Next Ordinance No. 4589
Next Resolution No. 26059

VILLAGE OF VILLA PARK
Village Hall, Board Chambers
20 South Ardmore Avenue
Villa Park, IL 60181

Village Board of Trustees

September 14, 2026 **7:00 PM**

Village President Kevin Patrick
Village Clerk Rolf Laukant
Village Trustees Cari Alfano, Jorge Cordova, Tina Konstatos, Jack Kozar, Deepa Kumar, Khalid Sabri

Public participation is invited. When called upon, please approach the microphone and state your name. Kindly limit your remarks to 3 minutes.

1. **Call to Order - Roll Call**
2. **Pledge of Allegiance**
3. **Amendments to the Agenda**
4. **Public Comments on Agenda Items**
5. **Public Comments on Non-Agenda Items**
6. **Proclamations**
   a. See Tracks? Think Train® Week will be held in the United States from September 21 to 27, 2026.
7. **Presentation**
   a. Presentation of Car 321 preliminary concepts and rough order-of-magnitude costs
8. **Appointment to Commission**
   a. Appointment of Rebecca Leone to the GREEN Commission
   b. Appointment of Ray Karena to the Plan Commission.
9. **Consent Agenda**
   a. Bill listings for the weeks of August 31, 2026, in the amount of $761,116.55, September 7, 2026, in the amount of $1,331,551.73 and September 14, 2026 in the amount of $385,663.92.
   b. The Minutes of the Village of Villa Park Board of Trustees Meeting held on August 10, 2026.
   c. Minutes of the Village Board of Trustees Meeting held on August 24, 2026.

d. Resolution of the Village of Villa Park, DuPage County, Illinois, Authorizing the Submittal of an Application for the Funding of the 2027 CDBG Northwest Area Street Improvement Project from the Community Development Block Grant Program.

e. A Resolution of the Village of Villa Park, DuPage County, to approve the Phase II Engineering Agreement - Supplement with Primera, of Lisle, Illinois, in the amount of $49,509.00.

f. Resolution of the Village of Villa Park, DuPage County, Illinois, Approving Final Change Order Number 1 to the Contract with Nardulli Construction Company, Inc. of Chicago Illinois, for Construction of the Terrace Alley Rebuild for a Net Deduction in the Amount of $21,994.20.

10. Ordinance for First Reading

a. An Ordinance Conditionally Increasing the Number of Class B Liquor Licenses Under Section 3-313(A) of the Villa Park Municipal Code

This ordinance would increase the number of available Class B liquor licenses when a current liquor store is purchased by a new owner. This ordinance was recommended by the Local Liquor Control Commission. This is a first reading.

b. An Ordinance Conditionally Increasing the Number of Class D Liquor Licenses under Section 3-313(A) of the Villa Park Municipal Code

This ordinance would increase the number of available Class D liquor licenses when a current liquor store is purchased by a new owner. This ordinance was recommended by the Local Liquor Control Commission. This is a first reading.

11. Ordinance for Second Reading

a. An Ordinance of the Village of Villa Park Amending Section 14-115 of the Villa Park Municipal Code Regarding Electric Mobility Devices.

This Ordinance replaces the existing "Low-Speed Electric Scooters" provisions in the Village Code with a comprehensive "Electric Mobility Devices" section covering electric scooters, low-speed electric bicycles, low-speed gas bicycles, and motor-driven cycles. This is a second reading.

b. An Ordinance of the Village of Villa Park, DuPage County, Illinois, Amending Chapter 3 ("Alcoholic Liquor") of the Village Code to Revise Provisions Relating to the Local Liquor Control Commission, Alcoholic Liquor Licensing and Regulation

The Local Liquor Control Commission recommends amending Chapter 3 of the Village Code regarding Commission structure and application procedures. This is the second reading; the first reading was on August 24, 2026, where the Village Board sent the revisions back to the Local Liquor Control Commission for further review. The recommended amendment has been changed based on that review.

12. Ordinances

a. An Ordinance of the Village of Villa Park, DuPage County, Illinois Approving a Special Use for a Planned Unit Development, Site Plan and Plat of Subdivision at 351-415 N. Ardmore Avenue and 400-416 N Beverly Avenue, Villa Park, Illinois (HawthorneWorld Villa Park LP)

This Ordinance would approve Petition ZBA 25-10 seeking a mixed-use planned unit development on the vacant land northwest of the train station. The Zoning Board of Appeals (5-1) recommends approval of the PUD, and the Plan Commission (4-0) recommends approval of the Plat of Subdivision and Site Plan.

13. Resolutions

a. A Resolution Amending the Paid Parental Leave Policy of the Village of Villa Park

b. Resolution of the Village of Villa Park, DuPage County, Illinois, Approving an Engineering Services Agreement with V3 Companies, Ltd., of Woodridge, Illinois, for Flood Study of the Biermann and Sunset Area in an Amount Not to Exceed $17,700.00.

The following Resolution would authorize the Village Manager to enter into an engineering services agreement with V3 Companies, Ltd., of Woodridge, Illinois, for engineering services for the Flood Study of Biermann and Sunset Area in an amount not to exceed $17,700.00. The Flood Study of Biermann and Sunset Area proposes a flood study of residential area near the intersection of Biermann Ave and Sunset Dr.

c. A Resolution Waiving the Competitive Bid Process and Approving a contract with The Fields of Caton Farm, Inc. of Crest Hill, Illinois, for the 2026 Parkway Tree Program in an Amount Not to Exceed $62,385.00

To award the contract for the 2026 Parkway Tree Planting Program to The Fields of Caton, Inc. in the amount of $62,385. This contract will be for 150 Parkway trees with an additional 52 trees for the Lufkin Park landscaping plan. The Fields of Canton were the lowest bidder last year (2025) and they have agreed to extend the bid prices for this year. Staff recommends approval.

14. Unfinished Business

15. New Business

a. A Resolution of the Village of Villa Park, DuPage County, Illinois Reaffirming the Preservation of Records

This item of new business was proposed by Trustee Kumar, seconded by Trustee Cordova. The Resolution reaffirms the Village's commitment to preservation of all records related to public business.

b. A Resolution of the Village of Villa Park, DuPage County, Illinois Adopting a Policy Regarding Use of Stationery and Letterhead

This item of New Business was proposed by Trustee Kumar, seconded by Trustee Cordova. The Resolution establishes a policy for authorized use of Village stationery.

c. Discussion on an update for the Storm Event Tree Debris Pickup Policy

d. Evening with the Board

e. Election Process and Candidate Packets

16. Village Commission Reports

17. Village Clerk's Report

18. Village Trustees' Report

19. Village President's Report

20. Village Manager's Report

21. Executive Session

a. Pursuant to 5 ILCS 120/2(c)(1), the appointment, employment, compensation, discipline, performance, or dismissal of specific employees of the public body or legal counsel for the public body

b. Pursuant to 5 ILCS 120/2(c)(11), Litigation, when an action against, affecting or on behalf of the public body has been filed and is pending before a court or administrative tribunal, or when the public body finds that an action is probable or imminent.

22. Adjournment

The Villa Park Village Hall is subject to the requirements of the Americans with Disabilities Act of 1990. An elevator is operational at the north side entrance to the Village Hall during normal work hours and also during evenings. Individuals with special needs are requested to contact the Village's Compliance Officer at (630) 834-8500 so that reasonable accommodations can be made for those persons.

Village of Villa Park

20 South Ardmore Avenue, Villa Park, Illinois 60181-2696

PROCLAMATION
National See Tracks? Think Train® Week

WHEREAS, ***See Tracks****?* ***Think Train****®* Week is to be held across the U.S. from September 21 to 27, 2026**;** and

WHEREAS, 2,273 rail grade crossing collisions resulted in 764 personal injuries and were responsible for 287 fatalities in the United States during 2025; and

WHEREAS, educating and informing the public about rail safety (reminding the public that railroad right of ways are private property, enhancing public awareness of the dangers associated with highway rail grade crossings, ensuring pedestrians and motorists are looking and listening while near railways, and obeying established traffic laws) will reduce the number of avoidable fatalities and injuries caused by incidents involving trains and citizens; and

WHEREAS, the International Association of Chiefs of Police, National Operation Lifesaver Inc., United States Department of Transportation, and all local, state, county, and railroad law enforcement officers, first responders, and railroad corporations commit to partnering together in an effort to educate at a national level all aspects of railroad safety, to enforce applicable laws in support of National See Tracks? Think Train® Week; and

NOW, THEREFORE, I, Kevin Patrick, Village President of the Village of Villa Park, Illinois, together with the Village Board, do hereby proclaim my full support proclaiming September 21 to 27, 2026, National See Tracks? Think Train® Week and I encourage all citizens to recognize the importance of rail safety education.

IN WITNESS WHEREOF, I have hereunto set my hand this 14th day of September, 2026.

_____

Kevin Patrick, Village President

Car 321
Project Update

Village Board
September 14, 2026

Phase 1: Conception (Summer 2025)

- **May 2025** – Initial meeting and tour of Car 321 at The Illinois Railway museum(IRM) with representatives from Illinois Prairie Path (IPPc) and Villa Park.
- **June 2025** – Coordination meeting to establish responsibilities for securing the car.
- **July 2025** – IRM Board formally agrees to donate Car 321 following a presentation by Ralph DiFibo (IPPc)
- **August 2025** – Engineering selects Park and Ardmore as location for Car 321 improvements.

LIMITED
321

LIMITED
321

LOCAL
321
321

Park & Ardmore Site

Phase 2: Building and Funding (Fall 2025)

- **September 3, 2025** – The Carpenters Union Join the team.
- **September 29, 2025** – Visit to IRM to preview Car 321.
- **October 15, 2025** – First whole team meeting to define expectations and scope of work including Painters Union.
- **October 21, 2025** – Project receives large donations
  - $10,000 donation from Burke Engineering
  - $25,000 donation from IPPc.

Phase 2: Building and Funding (Fall 2025)

- **October 24, 2025** – First formal draft of the MOU is distributed to all parties.
- **October 27, 2025** – Ralph DiFibo presents at the Village Board meeting.
- **November 2, 2025** – President Patrick presents the plans at the IPPc Annual Meeting.
- **December 2025** – Project shared with the public at the annual Town Hall meeting and IPPc officially announces on social media.

Illinois Prairie Path Annual Meeting
11/02/2025
Car 321 Where Are You?
Village of Villa Park
President
Kevin Patrick
Villa Park
LOCAL

Phase 3: Planning and Groundbreaking (Winter-Spring 2026)

- **January 8, 2026** – Timeline and strategy meeting with the Trolly Museum, Carpenters Union, and Village team. A new site configuration is introduced.
- **February 18, 2026** – Second permit application submission sent to DuDOT.
- **March 5, 2026** – Site visit with Legat Architects and the VP project team.
- **May 11-26, 2026** – Permanent railbed is installed to receive Car 321

Ardmore

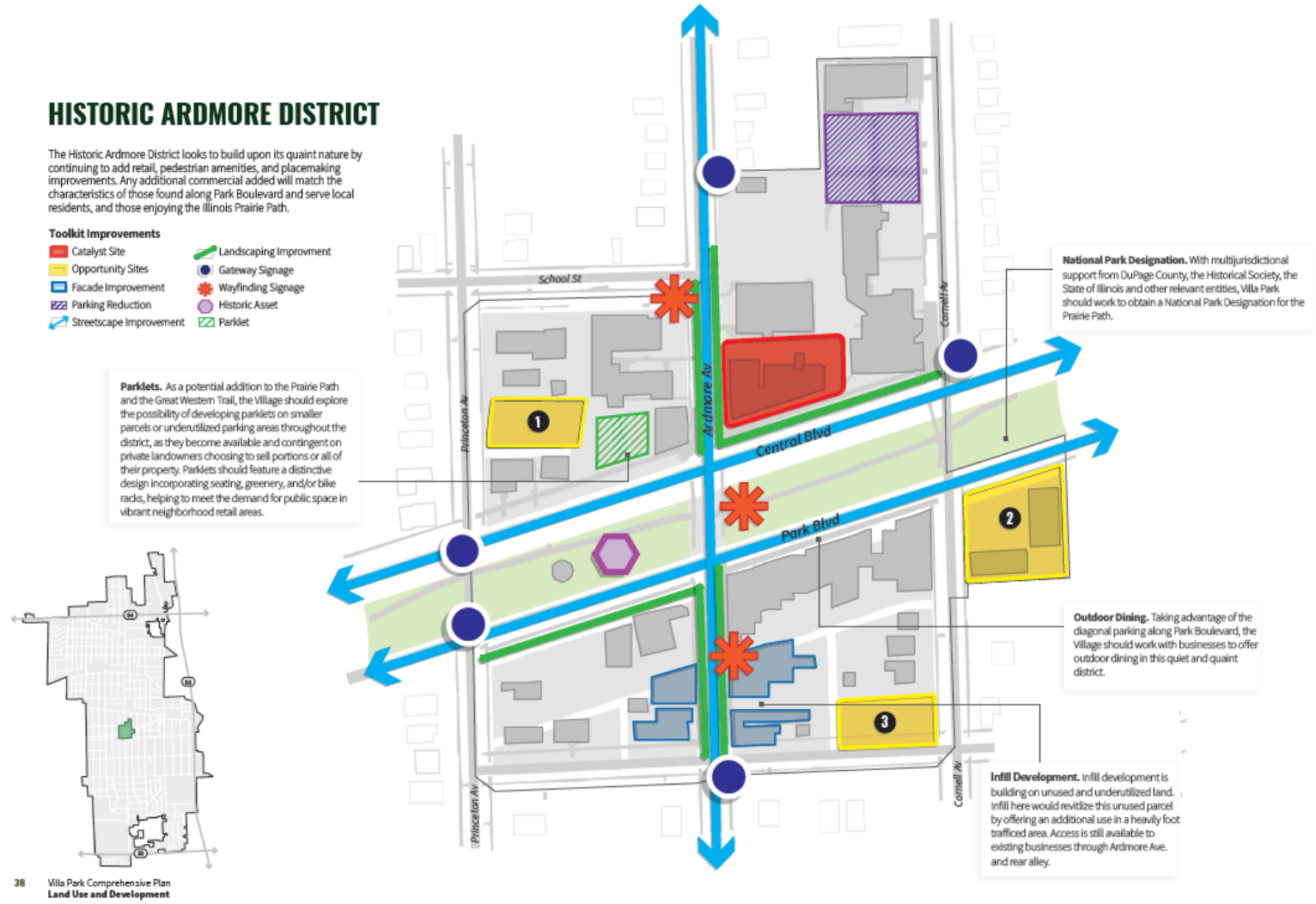
Phase 4: Plasa Design, Fundraising (Summer 2026)

- **May-June 2026** – Initial communications to residents, including social media posts, flyers, and website updates
- **June 3, 2026** – Rails To Trails conducts an official visit to Car 321.
- **June 15, 2026** – Brick/Bench fundraiser launched.
- **June 24, 2026** – Meeting with stakeholders to agree on roles and responsibilities and settle on a Spring 2027 delivery.
- **July 7, 2026** – Final MOU is signed by all parties.

President Patrick Gives a presentation to Rails to Trails

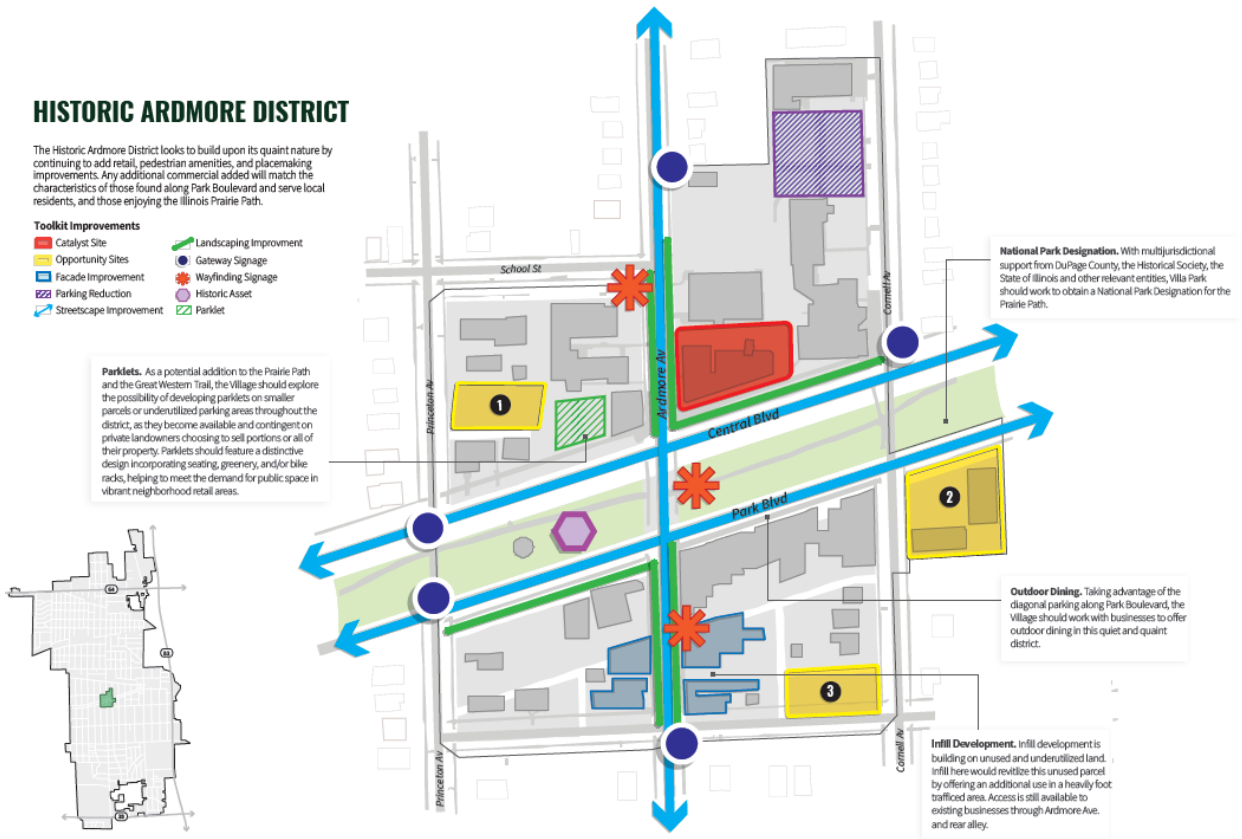
Rails to Trails Annual Meeting

COMPREHENSIVE PLAN
HISTORIC ARDMORE DISTRICT



COMPREHENSIVE PLAN
HISTORIC ARDMORE DISTRICT

- Build upon its quaint nature by continuing to add retail, pedestrian amenities, and placemaking improvements.
- Match the characteristics of those found along Park Boulevard.
- Serve local residents and those enjoying the Illinois Prairie Path.



COMPREHENSIVE PLAN

HISTORIC ARDMORE DISTRICT

- Historically or culturally significant structures or sites are recognized and preserved as historic landmarks.
- They benefit a place by attracting tourists, fostering a sense of identity and community pride.
- They contribute to economic development through cultural and heritage tourism.
- They provide residents and visitors with information about the history and culture of the Village.

COMPREHENSIVE PLAN
PLACEMAKING…

- Is about creating inviting and meaningful spaces that people enjoy and feel connected to.
- Combines branding, beautification, and functional infrastructure to create new draws to the community, encouraging formal and informal social interactions.
- Elements such as public art, murals, and monument signs can further enhance the area's visual appeal and cultural significance.
- Helps define a community's identity and contributes to a unique sense of place that differentiates it from other areas of town and the region.

COMPREHENSIVE PLAN
PLACEMAKING…

Villa Park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Title Sheet

LEGAT ARCHITECTS

MEETING AGENDA

Project Scope

Concept Development
- Site Analysis
- Site images
- Precedent Images
- Initial Concepts
- Prairie Concept - Good, Better, Best

Project Schedule

Project Estimate

villa park
THE GARDEN VILLAGE

CAR 321
Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Agenda
LEGAT ARCHITECTS

Village of Villa Park
Railcar 321

ALL PROPOSED SIDEWALK SHALL FOLLOW DUPAGE COUNTY DIVISION OF TRANSPORTATION STANDARDS

PROPOSED 2' x 5' CONCRETE INFORMATIONAL SIGN PAD

PROPOSED CONCRETE SIDEWALK

EXISTING CONCRETE SIDEWALK

32' X 70' CANOPY

Legend

- Car 321
- Railroad Bed/Track
- Observation Deck

1 inch equals 10 feet

Last Updated 1/16/2026 JRW

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THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Train Shelter

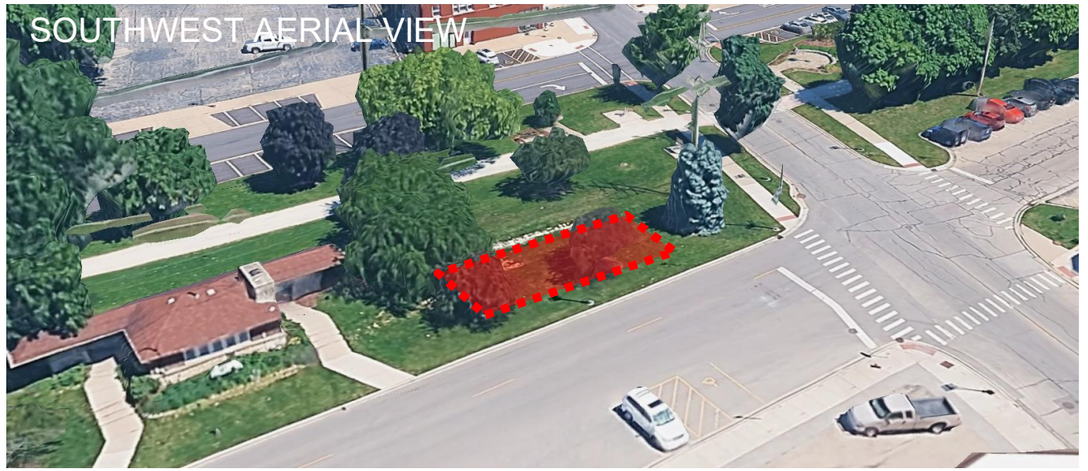
Accessible Platform

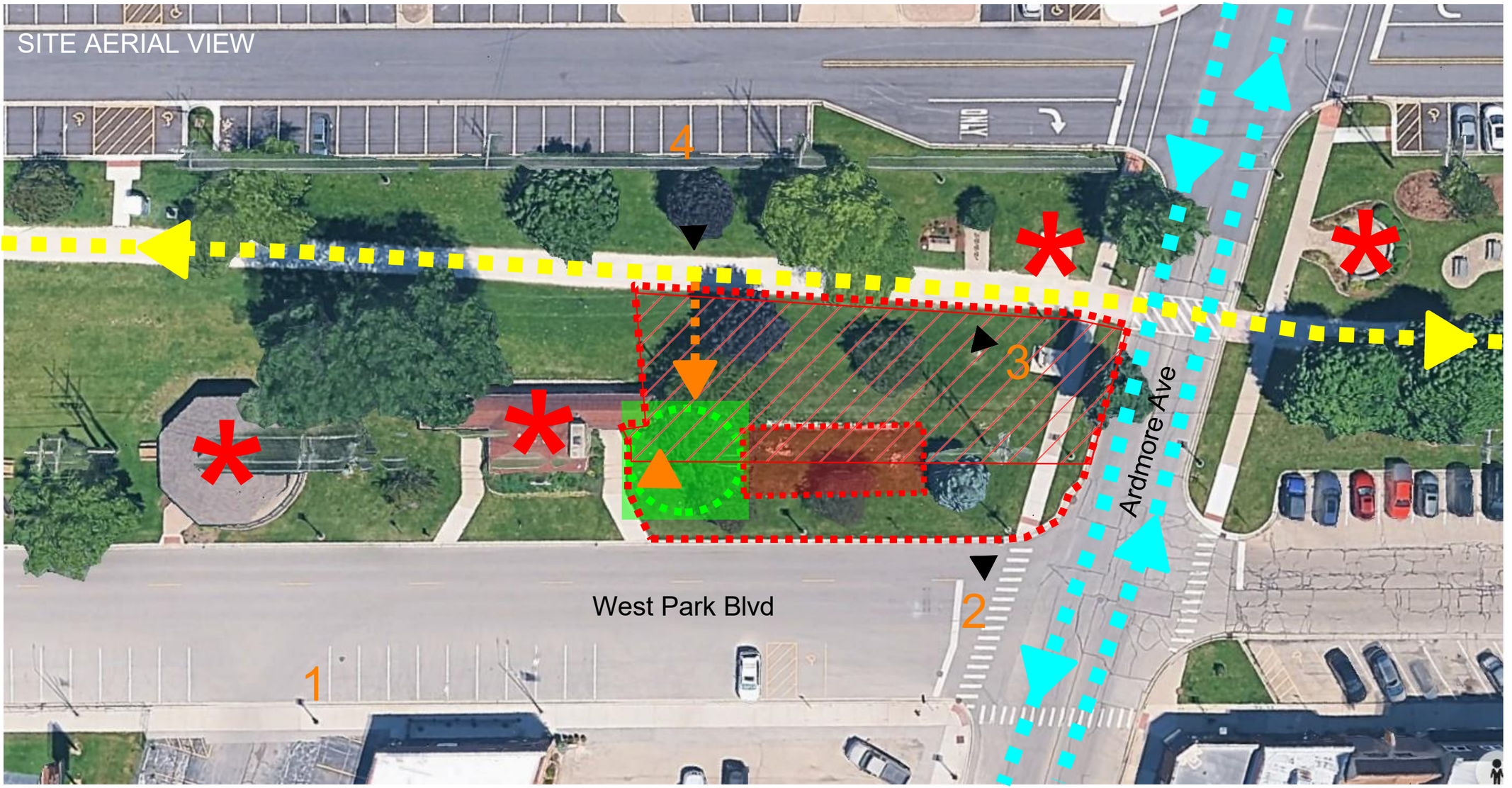
Connection to Prairie Path

Connection to West Park Blvd

Project Scope

LEGAT ARCHITECTS





villa park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Legend

- Project Site
- Train / Platform Location
- DuPage County Property
- Points of Interest
- Bike / Pedestrian Circulation
- Vehicular Circulation
- Site Entry Points
- Gathering Area
- Views to Site

Site Analysis

LEGAT ARCHITECTS

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THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Images

LEGAT ARCHITECTS

Villa Park
THE GARDEN VILLAGE

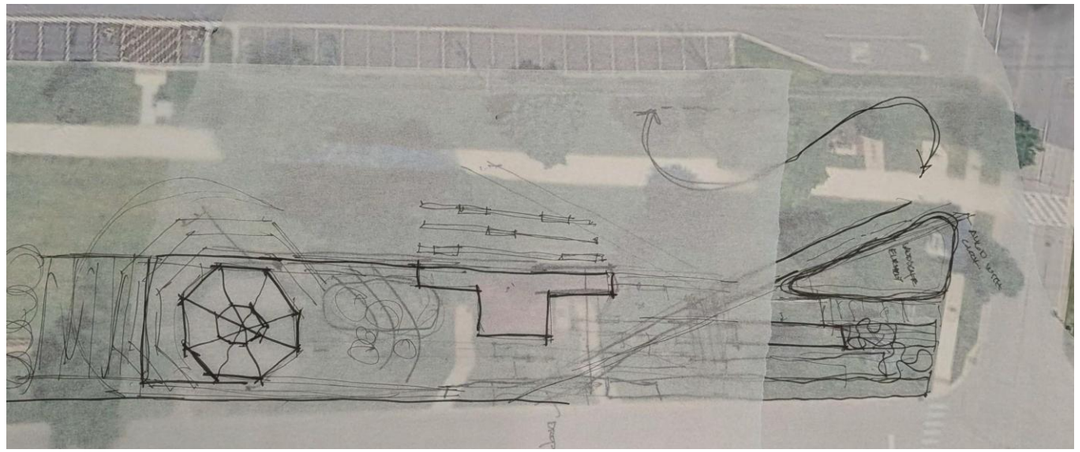
CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

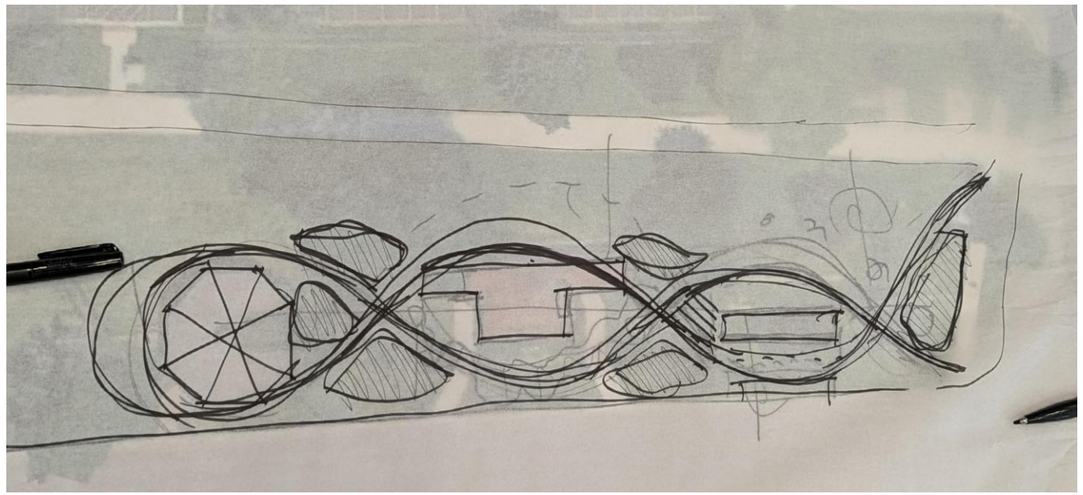
Village Board Meeting
9/14/26

Precedent Images

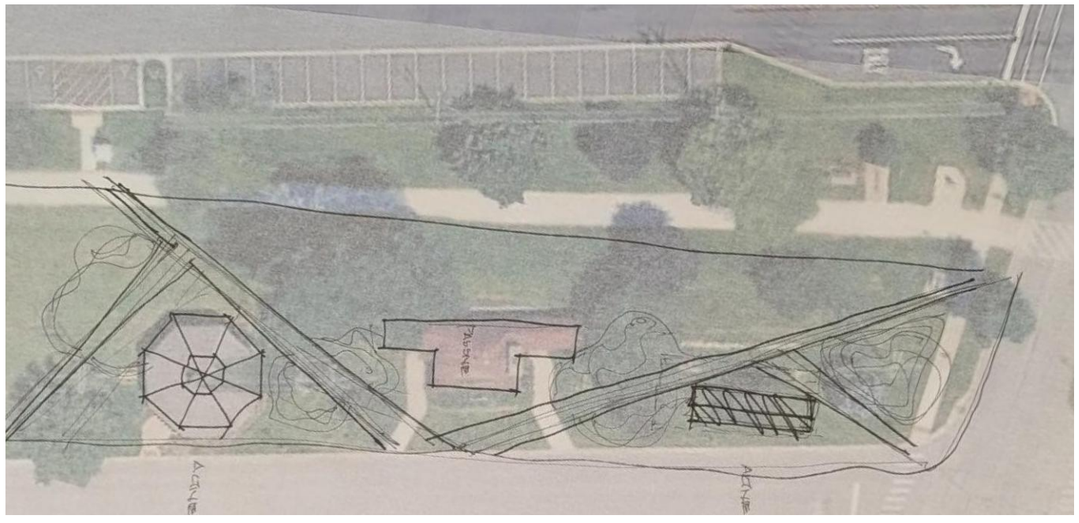
LEGAT ARCHITECTS



Prairie Option



Motion Option



Vector Option

Villa Park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Community Connection

Celebrate History

Project Evolution

Place Making

Initial Concepts

LEGAT ARCHITECTS

GOOD

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THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Legend

1. Ardmore Ave Train Station
2. Illinois Prairie Path
3. Canopy Over Railcar and Platform
4. ADA Ramp Below
5. Concrete Sidewalk w/ Memorial Benches
6. Compass
7. Paver walk w/ Memorial Pavers

Site Plan - Good

LEGAT ARCHITECTS

GOOD

Villa Park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Good
Southwest Aerial View

LEGAT ARCHITECTS

GOOD

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Good
Southeast Night
Ground View

LEGAT ARCHITECTS

GOOD

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Good
Northeast Interior
View

LEGAT ARCHITECTS

BETTER

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THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Legend

1. Ardmore Ave Train Station
2. Illinois Prairie Path
3. Canopy Over Railcar and Enlarged Platform and ADA Ramp
4. ADA Ramp Below
5. Concrete Sidewalk w/ Memorial Benches
6. Compass
7. Train Plaza w/ Memorial Pavers
8. Stepped Seating Below

Prairie Site Plan - Better

LEGAT ARCHITECTS

BETTER

Villa Park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Better
Southwest Aerial
View

LEGAT ARCHITECTS

BETTER

Villa Park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Better
Southeast Night
Ground View

LEGAT ARCHITECTS

BETTER

CAR 321

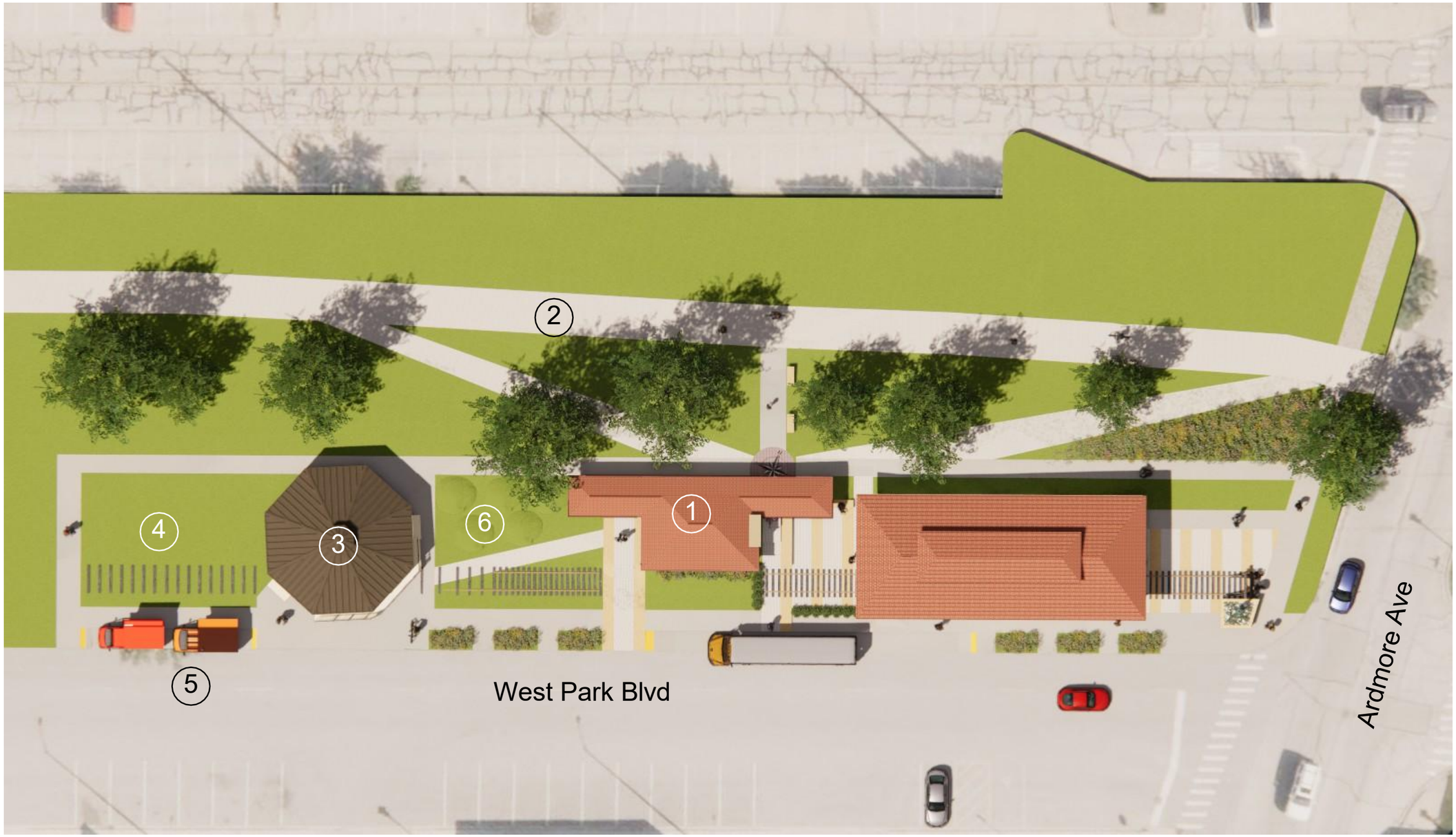
Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Better
Northeast Interior
View

LEGAT ARCHITECTS

BEST



villa park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Legend

1. Ardmore Ave Train Station
2. Illinois Prairie Path
3. Music Pavilion
4. The Concert Lawn
5. Food Trucks
6. Play Moguls

Best Overall Site Plan

LEGAT ARCHITECTS

BEST

Villa Park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Legend

1. Ardmore Ave Train Station
2. Illinois Prairie Path
3. Canopy Over Railcar and Enlarged Platform and ADA Ramp
4. ADA Ramp - Below
5. Concrete Sidewalk w/ Memorial Benches
6. Compass
7. Enlarged Railroad Plaza w/ Memorial Pavers
8. Crushed Limestone Path
9. Stepped Seating Below
10. Bus Drop Off
11. Prairie Garden
12. Street Clock w/ Monument Sign
13. Railcar Bumper Bench

Site Plan - Best

LEGAT ARCHITECTS

BEST

Villa Park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Best
Southwest Aerial
Overall View

LEGAT ARCHITECTS

BEST

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Best
Southeast Aerial
Overall View

LEGAT ARCHITECTS

BEST

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THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Best
Southeast Ground
Night View

LEGAT ARCHITECTS

BEST

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THE GARDEN VILLAGE

CAR 321

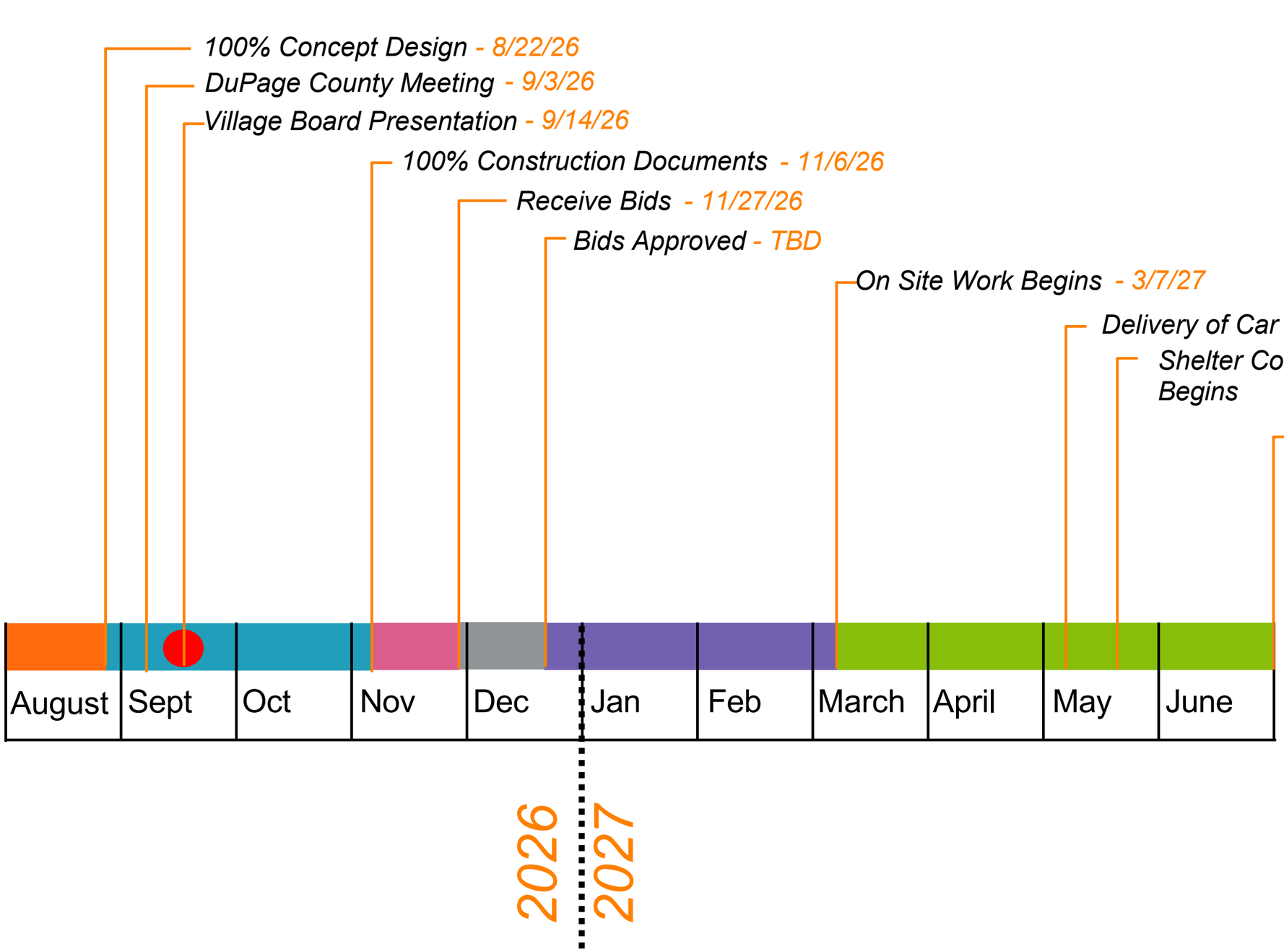
Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Site Image - Best
East Ground View

LEGAT ARCHITECTS

100% Concept Design - 8/22/26
DuPage County Meeting - 9/3/26
Village Board Presentation - 9/14/26
100% Construction Documents - 11/6/26
Receive Bids - 11/27/26
Bids Approved - TBD
On Site Work Begins - 3/7/27
Delivery of Car 321 - 5/7/27
Shelter Construction Begins - 5/21/27
Substantial Completion - 7/1/27



villa park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

DuPage County Meeting
9/3/26

- Concept Design
- Construction Documents
- Bidding
- Bid Review / Award
- Order Materials
- On Site Construction

Project Schedule

LEGAT ARCHITECTS

GOOD

$700,000 TO $775,000

BETTER

$980,000 TO $1,080,000

BEST

$1,800,000 TO $1,950,000

villa park
THE GARDEN VILLAGE

CAR 321

Site Improvements & Shelter
East Ardmore Ave
Villa Park, IL

Village Board Meeting
9/14/26

Project Estimate

LEGAT ARCHITECTS

Village Commission Application

Name
Rebecca Leone

Address
[redacted]

Primary Phone
([redacted]

Work Phone

[redacted]

Have you resided within the corporate limits of Villa Park for at least one year?
Yes

Are you between the ages of 13-17?
No

I am interested in serving on the following Commission(s), listed in order of preference:

- **Community F.U.N. Commission**
- **Villa Fest Subcommittee**
- **Community Recreation Commission**
- **Garden Village Commission**
- **G.R.E.E.N. Commission**
- **Villa Park Growth Commission**
- **Historical Preservation Commission**
- **Plan Commission**
- **Zoning Board of Appeals**
- **Senior Concerns Commission**
- **Board of Fire and Police**
- **Police Pension Fund Board**
- **Firefighter's Pension Fund Board**
- **Sugar Creek Golf Course Administrative Board**

First Preference:
Villa Park Growth Commission

Second Preference:
Zoning Board of Appeals

Third Preference:
Community F.U.N. Commission

Employment Background:
Village of Stickney Police Department - Police Officer, Alpha Phi International Fraternity - Program Manager of Membership Services

Education Background:
Eastern Illinois University - Master's in College Student Affairs, DePaul University - Bachelor's in Psychology

Have you previously served as an elected or appointed official in Villa Park?
No

Would you be able to attend the Commission's meetings at the dates and times as listed on the Village's website at invillapark.com?
Yes

Signature

Date of Application
7/16/2026

Village Commission Application

Name
Ray Karenas

Address
[redacted]

Primary Phone
[redacted]

Work Phone

Email
[redacted]

Have you resided within the corporate limits of Villa Park for at least one year?
No

Are you between the ages of 13-17?
No

I am interested in serving on the following Commission(s), listed in order of preference:

- **Community F.U.N. Commission**
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- **Garden Village Commission**
- **G.R.E.E.N. Commission**
- **Villa Park Growth Commission**
- **Historical Preservation Commission**
- **Plan Commission**
- **Zoning Board of Appeals**
- **Senior Concerns Commission**
- **Board of Fire and Police**
- **Police Pension Fund Board**
- **Firefighter's Pension Fund Board**
- **Sugar Creek Golf Course Administrative Board**

First Preference:
Plan Commission

Second Preference:
Historical Preservation Commission

Third Preference:
Villa Park Growth Commission

Employment Background:
My Linked In profile www.linkedin.com/in/raykar55. I'm a semi-retired project manager with majority of my career working in the

engineering/construction world of food manufacturing facilities. I've also done work in nuclear/fossil power generation design, project manager for multi disciplines design/engineering for data center critical facilities. Website www.raykarenas.com.

Education Background:
BS in Industrial Technology from Illinois State University

Have you previously served as an elected or appointed official in Villa Park?
No

Would you be able to attend the Commission's meetings at the dates and times as listed on the Village's website at invillapark.com?
Yes

Signature

Date of Application
8/21/2026

BILL LISTING TO BE PRESENTED TO THE VILLAGE BOARD OF TRUSTEES ON 9.14.26 CY WEEKLY CHECK RUN DATED 8.31.26

INVOICE DISTRIBUTION REPORT FOR VILLAGE OF VILLA PARK

EXP CHECK RUN DATES 08/25/2026 - 08/31/2026
POSTED AND UNPOSTED
OPEN AND PAID

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 000					
10-000-210508	106 W MONROE - PRAD202401291 - BO	FREGA, ELIZABETH	08/20/2026	BR36	1,200.00
10-000-443102	REFUND FOR PETITIONER FOR ZBA-25-	CHRISTIAN CHURCH OF VP	08/20/2026	ZBA-25-12	791.10
				Total Department 000	1,991.10
Department: 110 PUBLIC AFFAIRS					
10-110-520700	EMPLOYEE SERVICE AWARD- CAMPOS	AWARD CONCEPTS INC	04/30/2026	I0793025	108.50
10-110-520700	SHIPPING & HANDLING	AWARD CONCEPTS INC	04/30/2026	I0793025	20.00
10-110-520700	EMPLOYEE SERVICE AWARD- CIHAK	AWARD CONCEPTS INC	04/30/2026	I0793026	151.67
10-110-520700	SHIPPING & HANDLING	AWARD CONCEPTS INC	04/30/2026	I0793026	35.00
10-110-520700	EMPLOYEE SERVICE AWARD- JARZEMBOW	AWARD CONCEPTS INC	08/01/2026	I0805138	28.50
10-110-520700	SHIPPING & HANDLING	AWARD CONCEPTS INC	08/01/2026	I0805138	23.12
10-110-529900	PROFESSIONAL SERVICES	BAKER TILLY ADVISORY GROUP	04/23/2026	BT3583830	15,534.00
10-110-529900	JULY PARADE PLAQUES	ADDISON ENGRAVING INC	07/24/2026	101547	276.00
10-110-565600	PSYCHOLOGICAL TESTING - AE	C.O.P.S AND F.I.R.E PERSON	08/12/2026	2709	625.00
				Total Department 110 PUBLIC AFFAIRS	16,801.79
Department: 120 MANAGER-ADMININSTRATION					
10-120-530300	ANNUAL DUES 2026/2027-PR	KIWANIS CLUB OF VILLA PARK	07/26/2026	27-125	155.00
				Total Department 120 MANAGER-ADMININSTRATION	155.00
Department: 121 INFORMATION TECHNOLOGY					
10-121-527001	DOOR KEY FOBS	PROCOM ENTERPRISES LTD	08/12/2026	863456	207.50
10-121-527001	LAPTOP CHARGER	AMAZON CAPITAL SERVICES	08/01/2026	1PJV-H1VN-9QPX	28.54
10-121-527001	HDMI CABLE	AMAZON CAPITAL SERVICES	08/01/2026	1PJV-H1VN-9QPX	43.30
10-121-527001	SPLIT WIRE LOOM TUBING KIT	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971	56.95
10-121-527001	COMPUTER MOUSE	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971	58.59
10-121-529901	IT SERVICES	HEARTLAND BUSINESS SYSTEMS	08/13/2026	904774-H	3,190.00
10-121-529901	CERTIFICATE RENEWALS	NOBLETEC LLC	08/17/2026	C26689	318.00
10-121-529901	DOOR ACCESS	PROCOM ENTERPRISES LTD	08/03/2026	862163	36.00
				Total Department 121 INFORMATION TECHNOLOGY	3,938.88
Department: 130 FINANCE					
10-130-531700	OFFICE SUPPLIES - KEYBOARD/LUMBAR	AMAZON CAPITAL SERVICES	07/01/2026	14X1-RYVN-7G94	35.73
				Total Department 130 FINANCE	35.73
Department: 140 COMMUNITY DEVELOPMENT					
10-140-522400	PERMIT FEE REIMBURSEMENT	WACH, SUE	08/20/2026	SR36	250.00
10-140-522400	PERMIT FEE REIMBURSEMENT	GIRON, ANDRES	08/21/2026	SR36	250.00
10-140-522400	PERMIT FEE REIMBURSEMENT	HINDS, PAUL	08/21/2026	SR37	250.00
10-140-528500	PLAN REVIEW FOR BP2026-1833	FIRE SAFETY CONSULTANTS IN	08/20/2026	B26-13993	3,715.00
				Total Department 140 COMMUNITY DEVELOPMENT	4,465.00
Department: 150 CENTRAL SERVICES					
10-150-525000	JUL FSA MONTHLY FEE	WEX HEALTH INC.	07/31/2026	2432166-IN	422.85
10-150-525000	VISION PREMIUMS; AUG	VISION SERVICE PLAN	08/01/2026	08.01.2026	3,258.73
10-150-525000	HEALTH INSURANCE; SEP 2026	BLUE CROSS BLUE SHIELD	09/01/2026	09.01.2026	371,960.98
10-150-525000	RETIREE SUPPLEMENTAL PLAN; SEP	BESTCO BENEFIT PLANS LLC	09/01/2026	09.01.2026	1,821.20
10-150-525000	LIFE INSURANCE; SEP	DEARBORN NATIONAL LIFE INS	09/01/2026	09.01.2026	8,249.51
10-150-525100	1ST QTR UNEMPLOYMENT - REMAINING	ILLINOIS DEPARTMENT OF	08/04/2026	462963	9.29
10-150-525100	2ND QTR UNEMPLOYMENT	ILLINOIS DEPARTMENT OF	08/06/2026	8X7921	13,332.00
10-150-526100	POLICE 189 FRONT PUSH BUMPER TO R	FLEET SAFETY SUPPLY	08/13/2026	87625	1,146.08

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 150 CENTRAL SERVICES					
10-150-526100	JUNE 2026 CLAIM DEDUCTIBLES FIRE	IRMA	06/30/2026	302147	1,104.45
10-150-526100	JUNE 2026 CLAIM DEDUCTIBLES PW	IRMA	06/30/2026	302147	8,852.21
			Total Department 150 CENTRAL SERVICES		410,157.30
Department: 160 BUILDINGS & GROUNDS					
10-160-529900	FIRE STATION 82 REPAIR TO SUMP PU	MIDLAND PLUMBING & SEWER	07/23/2026	13464	385.00
10-160-529900	FIRE STATION 81 UNCLOGGRED BATHRO	MIDLAND PLUMBING & SEWER	08/23/2026	13461	465.00
10-160-529900	FIRE STATION 81 ROD BATHROOM	MIDLAND PLUMBING & SEWER	08/23/2026	13451	695.00
10-160-529900	DOOR REPAIRS AT SIGN SHOP	ALLIED GARAGE DOOR INC	08/07/2026	0000247503	290.00
10-160-529900	PD ALARM MONTITORING 09/01-11/30	JOHNSON CONTROLS SECURITY	08/08/2026	42690501	116.10
10-160-531400	HAND SOUP FOR PARK BATHROOM	GRAINGER	08/04/2026	9030977210	87.07
10-160-531400	HAND SOAP FOR PARKS BATHROOM	GRAINGER	08/18/2026	124765129	159.14
10-160-531400	PARKS & REC PURCHASES	AMAZON CAPITAL SERVICES	08/01/2026	1MGW-T9X1-919C	407.76
10-160-531400	JANITORIAL SUPPLIES	AMAZON CAPITAL SERVICES	08/01/2026	1MGW-T9X1-919C	163.78
10-160-539900	VILLAGE 250 FLAGS PURCHASED BY RE	UNCOMMON USA INC	08/05/2026	1370282-IN	793.00
			Total Department 160 BUILDINGS & GROUNDS		3,561.85
Department: 170 COMMUTER PARKING LOT					
10-170-529900	2026 VILLAGE LANDSCAPE MAINTENANC	LANGTON GROUP	08/01/2026	68554	2,334.48
			Total Department 170 COMMUTER PARKING LOT		2,334.48
Department: 180 GARAGE					
10-180-530800	5 CASES TRANSMISSION FLUID 100 QU	AMSOIL INC	08/21/2026	25178880	1,466.45
10-180-531000	PW 1 REPLACED JOYSTICK CONTROLLER	STANDARD EQUIPMENT CO	08/20/2026	S03422	3,037.70
10-180-531000	PW 1 DIAGNOSE CAN BUS ERROR CODES	STANDARD EQUIPMENT CO	08/20/2026	S03193	501.60
10-180-531000	POLICE 194 EXHAUST FLEX PIPE RIGH	BRAD MANNING FORD INC	08/24/2026	348218	230.60
10-180-531000	1 65 SERIES BATTERY	INTERSTATE BATTERIES OF SO	08/25/2026	60006542	148.75
10-180-531000	FIRE E81 DRIVERS SEAT BELT LATCH	MACQUEEN EMERGENCY	08/20/2026	INV20112	359.58
			Total Department 180 GARAGE		5,744.68
Department: 207 POLICE-RECORDS					
10-207-529900-OCS015	CREDIT CHECK-INVESTIGATIONS	EQUIFAX INFORMATION SVCS L	08/17/2026	2075779726	30.00
10-207-529900-OCS019	PHLEBOTOMY SRVS VPPC2601461	ILLINOIS PHLEBOTOMY SERVIC	08/20/2026	2880	425.00
10-207-530100	SLEA UNIF-BORYK/PECHNIK/DINATALE	SPECIAL T UNLIMITED	08/20/2026	55025	900.00
10-207-530300	ROLL CALL NEWS	PIECZYNSKI, LINDA S	08/17/2026	430	144.00
			Total Department 207 POLICE-RECORDS		1,499.00
Department: 211 FIRE					
10-211-520201	FIRE APPARATUS ENGINEER - SE	ROMEOVILLE FIRE ACADEMY, V	08/06/2026	2026-511	750.00
10-211-529901	AMBULANCE BILLING FEES - JULY 202	PARAMEDIC BILLING SERVICES	08/14/2026	JUL26	5,390.81
10-211-529901	PLYMOVENT REPAIR	HASTINGS AIR-ENERGY CONTRO	08/03/2026	PS-I0019630	629.13
10-211-529901	SCBA COMPRESSOR MNT	AIR ONE EQUIPMENT INC	08/11/2026	239667	705.00
10-211-529901	AIR QUALITY TEST	AIR ONE EQUIPMENT INC	08/11/2026	239667	165.00
10-211-529901	MUFFLER PAD	AIR ONE EQUIPMENT INC	08/11/2026	239667	30.00
10-211-529901	FIRE EXTINGUISHER PULL PINS	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	8.81
10-211-529901	VEHICLE WAX	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	37.48
10-211-529901	VEHICLE TIRE SHINE	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	11.06
10-211-530101	PROBATIONARY UNIFORM - AE	O'HERRON CO INC, RAY	08/19/2026	2495496	28.79
10-211-530101	PSYCHOLOGICAL TESTING - JD	C.O.P.S AND F.I.R.E PERSON	08/17/2026	2724	625.00
10-211-530101	PASSPORT TAGS - AE	EAGLE ENGRAVING	08/20/2026	2026-6428	22.45
10-211-531401	ECOLUTION CAR & TRUCK WASH	STATE INDUSTRIAL PRODUCTS	08/24/2026	904326620	230.36

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 211 FIRE					
10-211-531401	DISH SOAP	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	9.88
10-211-531401	PAPER TOWELS	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	12.87
10-211-531501	SINGLE MONITOR MOUNT	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	29.99
10-211-531501	SHOWER CADDY	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	29.99
10-211-531501	SHOWER CURTAIN	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	13.49
10-211-531501	LAUNDRY BASKETS	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	27.98
10-211-531501	TOILET PLUNGER & BRUSH SET	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	14.99
10-211-531501	WEATHERPROOF ELECTRICAL OUTLET CO	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	17.67
10-211-531501	SHOWER CURTAIN	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	28.47
10-211-531501	MAGIC ERASERS	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	8.99
10-211-531501	BLACKOUT CURTAINS FOR BUNKS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	45.98
10-211-531501	BLACKOUT CURTAINS FOR BUNKS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	34.95
10-211-531501	FIRE LINE DO NOT CROSS TAPE	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	104.49
10-211-531701	FRAMES FOR STAFF PHOTO WALL	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	58.32
10-211-531701	POST-IT NOTES	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	14.95
10-211-531701	PACKING TAPE	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	13.29
10-211-531701	MECHANICAL PENCILS	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	6.99
10-211-531701	STAPLER	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	10.96
10-211-531701	NIGHT LIGHTS	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	11.99
10-211-531701	WIRE IPAD WALL BASKETS	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	22.99
10-211-531701	MEASURING CUPS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	6.99
10-211-531701	WALL FILE ORGANIZER	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	20.00
10-211-531701	DESK PROTECTOR	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	9.87
10-211-531701	SHEET PROTECTORS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	7.96
10-211-531701	POST-IT NOTES	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	14.71
10-211-531701	LINED POST-IT NOTES	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	10.39
10-211-531701	HANGING FILE FOLDERS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	38.52
10-211-531701	VACUUM BAGS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	14.99
10-211-531701	DUCT TAPE	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	23.46
10-211-539901	MEDICAL GLOVES	BOUND TREE MEDICAL LLC	08/10/2026	86310505	401.49
10-211-539901	COFFEE CUPS 16 OZ	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	27.54
10-211-539901	COFFEE CUPS 12 OZ	AMAZON CAPITAL SERVICES	07/01/2026	1FT3-4JPP-DPTJ-FD	13.67
10-211-539901	PATIENT TRANSPORT SHEETS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	222.90
10-211-539901	REHAB SUPPLIES - WATER	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	35.58
10-211-539901	WASHING MACHINE LINT TRAPS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FD	12.99
				Total Department 211 FIRE	10,014.18
Department: 240 GARBAGE					
10-240-299004	GARBAGE AND RECYCLING FOR JULY 20	LRS LLC	07/31/2026	LR13066371	165,823.80
				Total Department 240 GARBAGE	165,823.80
				Total Fund 10 CORPORATE FUND	626,522.79
Fund: 20 ARTICLE 36 STATE FORFEITURE FUND					
Department: 520 CONTRACTUAL					
20-520-522011	7-APX4000 JPS-R-0017-26	DUPAGE COUNTY SHERIFF'S OF	08/20/2026	8202026	3,500.00
				Total Department 520 CONTRACTUAL	3,500.00
				Total Fund 20 ARTICLE 36 STATE FORFEITURE FUND	3,500.00
Fund: 35 RECREATION FUND					

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 35 RECREATION FUND					
Department: 201 ADMINISTRATION					
35-201-529501	VILLA FEST LIQUOR PURCHASE	EUCLID BEVERAGE LLC	08/21/2026	W-4738555	3,378.15
35-201-529501	VILLA FEST TENT/TABLES/CHAIR RENT	PREMIER TENT RENTALS LLC	08/22/2026	80526	3,195.00
35-201-529501	PURCHASE OF ALCOHOL FOR VILLA FES	ROCHE, BRIAN	08/22/2026	08222026	734.81
35-201-531701	OFFICE SUPPLIES	AMAZON CAPITAL SERVICES	08/01/2026	1MGW-T9X1-919C	299.94
			Total Department 201 ADMINISTRATION		7,607.90
Department: 235 PROGRAMS					
35-235-520435	AUGUST SUMMER CAMP POOL SHUTTLE	SAFEWAY TRANSPORTATION SER	08/31/2026	5904	797.48
35-235-531135	PROGRAM SUPPLIES	AMAZON CAPITAL SERVICES	08/01/2026	1MGW-T9X1-919C	361.76
35-235-531135	PROGRAM SUPPLIES	AMAZON CAPITAL SERVICES	08/01/2026	1MGW-T9X1-919C	20.93
			Total Department 235 PROGRAMS		1,180.17
			Total Fund 35 RECREATION FUND		8,788.07
Fund: 36 PARKS FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
36-202-529902	2026 VILLAGE LANDSCAPE MAINTENANC	LANGTON GROUP	08/01/2026	68554	2,029.52
36-202-531802	HARVARD & PARK/ WILLOWBROOK PLAYG	TEAM REIL INC	07/02/2026	25203	1,716.53
36-202-532202	WIRE BRUSH TOOL CLEANER	LOMBARD ACE HARDWARE (GENE	08/21/2026	267192	30.98
36-202-539902	VILLAGE 250 FLAGS PURCHASED BY RE	UNCOMMON USA INC	08/05/2026	1370281-IN	1,007.00
36-202-539902	OTHER SUPPLIES	AMAZON CAPITAL SERVICES	08/01/2026	1MGW-T9X1-919C	725.94
36-202-539902	OTHER SUPPLIES	AMAZON CAPITAL SERVICES	08/01/2026	1MGW-T9X1-919C	(95.96)
			Total Department 202 EQUIPMENT AND SUPPLIES		5,414.01
			Total Fund 36 PARKS FUND		5,414.01
Fund: 41 SWIMMING POOL & REC FUND					
Department: 301 POOL&REC-ADMIN					
41-301-531701	OFFICE SUPPLIES	AMAZON CAPITAL SERVICES	08/01/2026	1MGW-T9X1-919C	126.82
			Total Department 301 POOL&REC-ADMIN		126.82
			Total Fund 41 SWIMMING POOL & REC FUND		126.82
Fund: 60 STREET IMPROVEMENT FUND					
Department: 210 CONTRACTUAL - SP REV FUNDS					
60-210-529210	VILLA (WILDWOOD TO IL 64) PHASE 2	CIVILTECH ENGINEERING INC	08/06/2026	57715	13,144.95
			Total Department 210 CONTRACTUAL - SP REV FUNDS		13,144.95
Department: 603 REFERENDUM 2014					
60-603-529203	WESTMORE & WISCONSIN PHASE 2 DE	CIVILTECH ENGINEERING INC	08/06/2026	57714	2,995.42
			Total Department 603 REFERENDUM 2014		2,995.42
			Total Fund 60 STREET IMPROVEMENT FUND		16,140.37
Fund: 65 EQUIPMENT REPLACEMENT FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
65-202-529900	PRINCIPAL/INTEREST PAYMENT	HINSDALE BANK AND TRUST	08/05/2026	1-09012026	83,705.78
			Total Department 202 EQUIPMENT AND SUPPLIES		83,705.78
			Total Fund 65 EQUIPMENT REPLACEMENT FUND		83,705.78
Fund: 82 WATER SUPPLY FUND					
Department: 201 ADMINISTRATION					

INVOICE DISTRIBUTION REPORT FOR VILLAGE OF VILLA PARK

EXP CHECK RUN DATES 08/25/2026 - 08/31/2026
POSTED AND UNPOSTED
OPEN AND PAID

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 82 WATER SUPPLY FUND					
Department: 201 ADMINISTRATION					
82-201-539901	HEAVY DUTY PACKING TAPE	AMAZON CAPITAL SERVICES	08/01/2026	1PJV-H1VN-9QPX	19.58
82-201-539901	SCREWDRIVER BIT SET	AMAZON CAPITAL SERVICES	08/01/2026	1PJV-H1VN-9QPX	28.49
82-201-539901	LAPTOP CHARGER	AMAZON CAPITAL SERVICES	08/01/2026	1PJV-H1VN-9QPX	28.54
			Total Department 201 ADMINISTRATION		76.61
Department: 202 EQUIPMENT AND SUPPLIES					
82-202-529202	WESTMORE & WISCONSIN PHASE 2 DE	CIVILTECH ENGINEERING INC	08/06/2026	57714	490.24
82-202-529902	AVL MONTHLY SUBSCRIPTION	PRECISE MRM LLC	08/21/2026	200-2015071	610.00
82-202-540102	17 S SUMMIT - HOME FLOOD PREVENTI	DONNA WIERZBICKI	08/21/2026	SR38	3,500.00
			Total Department 202 EQUIPMENT AND SUPPLIES		4,600.24
			Total Fund 82 WATER SUPPLY FUND		4,676.85
Fund: 83 WASTEWATER FUND					
Department: 201 ADMINISTRATION					
83-201-529901	RANDOM MGMT PER UNIT	EDWARD OCCUPATIONAL HEALTH	07/31/2026	00219367-00	144.00
83-201-539901	SURGE PROTECTOR POWER STRIP	AMAZON CAPITAL SERVICES	08/01/2026	1PJV-H1VN-9QPX	49.13
83-201-539901	LAPTOP CHARGER	AMAZON CAPITAL SERVICES	08/01/2026	1PJV-H1VN-9QPX	41.38
			Total Department 201 ADMINISTRATION		234.51
Department: 202 EQUIPMENT AND SUPPLIES					
83-202-522402	PERMIT FEE REIMBURSEMENT	DONNA WIERZBICKI	08/21/2026	SR38	250.00
83-202-529202	WESTMORE & WISCONSIN PHASE 2 DE	CIVILTECH ENGINEERING INC	08/06/2026	57714	504.84
83-202-529902	AVL MONTHLY SUBSCRIPTION	PRECISE MRM LLC	08/21/2026	200-2015071	610.00
83-202-540102	146 E MONROE - HOME FLOOD PREVENT	WACH, SUE	08/20/2026	SR36	2,950.00
83-202-540102	605 N BIERMAN AVE - HOME FLOOD PR	GIRON, ANDRES	08/21/2026	SR36	3,500.00
83-202-540102	630 S GRANT - HOME FLOOD PREVENTI	HINDS, PAUL	08/21/2026	SR37	1,500.00
			Total Department 202 EQUIPMENT AND SUPPLIES		9,314.84
Department: 204 CONTRACTUAL SERVICES					
83-204-529204	WESTMORE & WISCONSIN PHASE 2 DE	CIVILTECH ENGINEERING INC	08/06/2026	57714	2,692.51
			Total Department 204 CONTRACTUAL SERVICES		2,692.51
			Total Fund 83 WASTEWATER FUND		12,241.86

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
--- TOTALS BY FUND ---					
		10	CORPORATE FUND		626,522.79
		20	ARTICLE 36 STATE FORFEITURE F		3,500.00
		35	RECREATION FUND		8,788.07
		36	PARKS FUND		5,414.01
		41	SWIMMING POOL & REC FUND		126.82
		60	STREET IMPROVEMENT FUND		16,140.37
		65	EQUIPMENT REPLACEMENT FUND		83,705.78
		82	WATER SUPPLY FUND		4,676.85
		83	WASTEWATER FUND		12,241.86
		Total For All Funds:			761,116.55

Julie Settles 8.28.26

BILL LISTING TO BE PRESENTED TO THE VILLAGE BOARD OF TRUSTEES ON 9.14.26 CY WEEKLY CHECK RUN DATED 9.7.26

INVOICE DISTRIBUTION REPORT FOR VILLAGE OF VILLA PARK
EXP CHECK RUN DATES 09/07/2026 - 09/07/2026
POSTED AND UNPOSTED
OPEN AND PAID

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 000					
10-000-443100	BUILDING PERMITS	DEL CONCRETE CONSTRUCTION	08/03/2026	PIS2026-0007	900.00
				Total Department 000	900.00
Department: 110 PUBLIC AFFAIRS					
10-110-520200	BOARD IML ANNUAL CONFERENCE ATTEN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	325.00
10-110-520200	BOARD IML ANNUAL CONFERENCE ATTEN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	325.00
10-110-520200	BOARD IML ANNUAL CONFERENCE ATTEN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	325.00
10-110-520200	BOARD IML ANNUAL CONFERENCE ATTEN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	325.00
10-110-520200	BOARD IML ANNUAL CONFERENCE ATTEN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	325.00
10-110-520200	BOARD IML ANNUAL CONFERENCE ATTEN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	325.00
10-110-520700	EMPLOYEE APPRECIATION CUPCAKES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	94.45
10-110-520700	EAC-WELCOME NEW ARRIVAL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	35.90
10-110-520700	VH STAFF BDAY	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	26.02
10-110-520700	VH STAFF BDAY	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	25.93
10-110-520700	VH SYMPATHY CARD	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	4.99
10-110-520700	EMPLOYEE APPRECIATION CUPCAKES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	59.30
10-110-520700	PLATES,CUTLERY AND DECOR	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	56.50
10-110-520700	EAC-BABY ARRIVAL PKG	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	35.90
10-110-521100	LEGAL SERVICES JUNE - GENERAL MAT	MONTANA & WELCH LLC	08/19/2026	19459	26,050.00
10-110-529900	07.04.26 PARADE CANDY	AMAZON CAPITAL SERVICES	07/01/2026	1XCK-G31T-HGQV	2,897.04
10-110-529900	VIDEO TAPING MEETINGS	SUNCOM.TV	08/20/2026	5034	4,275.00
10-110-529900	VIDEO TAPING OF MEETINGS	SUNCOM.TV	08/29/2026	5035	4,615.00
10-110-529900	CONFLICT COUNSEL SERVICES MAY 202	ANCEL GLINK DIAMOND BUSH	06/10/2026	3339429	1,835.00
10-110-529900	ATTORNEY FEES JULY - EMINENT DOM	STEPHEN D. HELM	08/24/2026	H25-4395-SDH-11	8,315.00
10-110-530300	2026-2027 MEMEBRSHIP DUES	WEST CENTRAL MUNICIPAL	08/28/2026	0011664-IN	5,500.00
10-110-539900	SUPPLIES-JUNE SALT MEETING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	9.89
10-110-539900	COFFEE WITH BOARD MEETING AT LUFK	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	42.48
10-110-539900	TRAINING SESSION FOR COMMISIONS D	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	74.51
10-110-539900	OTHER SUPPLIES - NAME PLATE FOR D	AMAZON CAPITAL SERVICES	08/03/2026	16VL-6MDH-R434	10.44
10-110-565300	GROCERIES-JUNE SALT MEETING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	109.42
10-110-566700	FUN COMMISSON EVENT SUPPLIES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	94.04
10-110-566700	FUN COMMISSON LNASCAPE AWARDS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	170.85
10-110-566700	PLATES FOR SKELETON SQUAD EVENT	BRUNNER-HINTZE, MARY	08/28/2026	082826	11.40
				Total Department 110 PUBLIC AFFAIRS	56,299.06
Department: 112 MANAGER					
10-112-530300	1 YEAR DUES JULY 2026 - JUNE 2027	ICMA	08/28/2026	JULY 2026- JUNE 202	200.00
				Total Department 112 MANAGER	200.00
Department: 120 MANAGER-ADMININSTRATION					
10-120-520200	IML ANNUAL CONFERENCE 2026-MR	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	325.00
10-120-520200	TRUSTEE IML REGISTRATION	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	325.00
10-120-520200	TRUSTEE IML REGISTRATION	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	325.00
10-120-530300	ANNUAL DUES 2026/2027-CW	KIWANIS CLUB OF VILLA PARK	07/26/2026	27-141	155.00
10-120-539900	VILLAGE DIRECTORY MAGNETS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	466.35
10-120-539900	LEGAL RESPONSES-CERTIFIED MAIL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	8.05
10-120-539900	VH STAFF BDAY	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	19.99
10-120-539900	VH STAFF APPAREL	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	64.85
10-120-539900	STAFF MEETING FOOD	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	29.95
				Total Department 120 MANAGER-ADMININSTRATION	1,719.19

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 121 INFORMATION TECHNOLOGY					
10-121-521001	TELEPHONE	SAWYER, BRIAN	09/01/2026	SEPT26	24.99
10-121-521001	USAGE	SAWYER, BRIAN	09/01/2026	SEPT26	24.99
10-121-529901	VPRC GUEST INTERNET	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	479.87
10-121-529901	WEBSITE FORMS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	39.00
10-121-529901	CERTIFICATE RENEWAL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	239.98
10-121-529901	POOL INTERNET	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	113.29
10-121-529901	REFUND FOR SHIPPING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	(22.00)
10-121-529901	METRA INTERNET	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	427.71
10-121-529901	HOSTED EMAIL ACCOUNT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	0.99
10-121-529901	DOMAIN NAME RENEWAL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	23.19
10-121-529901	VPRC GUEST INTERNET	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	479.87
10-121-529901	BACKUP SOFTWARE SUPPORT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	500.00
10-121-529901	WEBSITE FORMS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	39.00
10-121-529901	POOL INTERNET	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	60.94
10-121-529901	VPRC GUEST INTERNET	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	427.71
10-121-529901	HOSTED EMAIL ACCOUNT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	0.99
10-121-529901	MILEAGE	SAWYER, BRIAN	09/01/2026	SEPT26	6.97
			Total Department 121 INFORMATION TECHNOLOGY		2,867.49
Department: 130 FINANCE					
10-130-520200	GFOA CONFERENCE FOR JS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	650.00
10-130-520200	GFOA CONFERENCE FOR CB	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	650.00
10-130-520200	GFOA CONFERENCE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	584.28
10-130-520200	GFOA CONFERENCE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	357.26
10-130-520200	REFUND OF TAX	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	(142.00)
10-130-520200	REFUND OF TAX	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	(172.30)
10-130-530300	ANTHROPIC SUBSCRIPTION	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	194.08
10-130-531700	DEPOSIT SLIPS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	87.43
10-130-531700	DEPOSIT SLIPS PAST PURCHASE NEVER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	83.95
10-130-539900	SUPPLIES FOR BREAK ROOM	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	11.98
			Total Department 130 FINANCE		2,304.68
Department: 140 COMMUNITY DEVELOPMENT					
10-140-520200	APA CONFERENCE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	75.00
10-140-520200	ICSC MEMBERSHIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	600.00
10-140-520200	CONFERENCE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	325.00
10-140-521000	WIRELESS SERVICE FROM 07/21/26 to	T-MOBILE USA (PW)	07/21/2026	205079815-19	21.84
10-140-522400	PERMIT FEE REIMBURSEMENT	STEVEN ARELLANO	09/02/2026	SR 37	250.00
10-140-528900	PLUMBING INSPECTIONS	JOE SPERANDO	08/31/2026	102	480.00
			Total Department 140 COMMUNITY DEVELOPMENT		1,751.84
Department: 150 CENTRAL SERVICES					
10-150-520200	MEMBER ANNUAL DUES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	347.00
10-150-526100	POLICE 189 FRONT BUMPER DAMAGE RE	WRECK ROOM INC, THE	08/27/2026	31972	1,660.65
10-150-530300	HR SOURCE MEMBERSHIP-JP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	2,185.00
10-150-539900	AI FINANCE SOFTWARE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	239.99
			Total Department 150 CENTRAL SERVICES		4,432.64
Department: 160 BUILDINGS & GROUNDS					
10-160-522200	CHANGE ORDER 1&2	ROBE INC	08/10/2026	3957	1,790.00
10-160-522200	WINDOW UNIT FOR VH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	439.00

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 160 BUILDINGS & GROUNDS					
10-160-522200	A/C FOR OLD FIRE STATION	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	847.14
10-160-529900	FIRE STATION 81 & 82 PEST CONTROL	A.G.A.D. PEST CONTROL	08/27/2026	128037	115.00
10-160-529900	VH/PD/PW PEST CONTROL	A.G.A.D. PEST CONTROL	08/27/2026	128037	140.00
10-160-531400	DRILL BIT AND FASNTERS FOR VH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	79.87
10-160-531400	VH CEILING COVER UP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	62.87
10-160-531400	VH CEILING PAINT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	23.98
10-160-531400	BATTRIES FOR FIRE PANEL @ FLEET	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	129.99
10-160-531400	JANITORAL SUPPLIES FOR CORP BUILD	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	319.68
10-160-531400	JANITORAL SUPPLIES FOR CORP BUILD	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	13.18
10-160-531400	JANITORAL SUPPLIES CORP BUILDINGS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	38.43
10-160-531400	JANITORAL SUPPLIES CORP BUILDINGS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	5.59
10-160-531400	JANITORAL SUPPLIES CORP BUILDINGS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	36.37
10-160-531400	AMAZON AUG ORDER PARKS AND REC	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	51.08
10-160-531400	JANITORAL SUPPLIES CORP	CASE LOTS INC	08/25/2026	33005	86.28
10-160-531500	EMERGANCY LIGHT FOR SHOP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	69.37
10-160-531500	NEW DOOR HANDLE FOR HR DOOR	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	37.44
10-160-531500	TOOL REPLACEMENT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	430.42
10-160-531500	LIGHT FOR BATHROOM @ SHOP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	65.25
10-160-531500	DOOR HANDLE FOR SHOP BATHROOM	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	222.23
10-160-531500	UV PARTS FOR STATION 81	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	1,272.18
10-160-531500	LOCKS FOR HARVARD HOUSE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	13.98
10-160-531500	LATCHES TO LOCK DOORS AT HARVARD	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	89.16
10-160-531500	PARK OLD FIRE STATION LIGHT BULB	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	21.99
10-160-531500	SUMP PUMPS FOR POLICE AND PW	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	1,072.18
10-160-531500	PVC FOR PD SUMP PUMP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	39.14
10-160-531500	PARTS FOR RAMP AT PW	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	283.22
10-160-531500	PVC FITTING FOR SUMP PUMP AT PD	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	37.36
10-160-531500	PARTS FOR SHOP BATHROOM	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	47.25
10-160-531500	ELECTRICAL PARTS FOR VH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	123.72
10-160-531500	PLUMBLING PARTS FOR VH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	24.96
10-160-531500	LIGHTS FOR FLAP POLE AT VH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	133.11
10-160-539900	BATTERIES FOR PANIC BUTTONS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	59.74
10-160-539900	BATTERIES FOR PANIC BUTTONS AT VP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	38.94
10-160-539900	MATERIALS FOR STATION 81	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	24.50
10-160-539900	FLAG HARDWARE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	15.16
10-160-539900	BATTERIES FOR FLEET ALARM SYSTEM	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	88.54
10-160-539900	PAD LOCKS RESTOCK	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	152.00
10-160-539900	TIMER FOR CHAMBER LIGHTS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	24.98
10-160-539900	POST FOR STAION 81 FENCE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	279.79
			Total Department 160 BUILDINGS & GROUNDS		8,845.07
Department: 170 COMMUTER PARKING LOT					
10-170-529900	2026 VILLAGE LANDSCAPE MAINTENANC	LANGTON GROUP	09/01/2026	68855	2,261.00
10-170-529900	CY26 PEST CONTROL METRA AUGUST	A.G.A.D. PEST CONTROL	07/27/2026	128038	45.00
			Total Department 170 COMMUTER PARKING LOT		2,306.00
Department: 180 GARAGE					
10-180-530800	5W 30 OIL 5 JUGS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	139.95
10-180-530800	4 CASES TRANS FLUID	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	1,098.76
10-180-530800	OIL 5W30 25 QTS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	166.20

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 180 GARAGE					
10-180-530800	OIL PUMP FOR DRUM	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	49.99
10-180-530900	DIESEL EXHAUST FLUID 10 JUGS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	96.40
10-180-530900	GASOLINE PURCHASE 5,505 GALLONS	AL WARREN OIL COMPANY INC	09/01/2026	W1876909	18,507.82
10-180-530900	DIESEL PURCHASE 1,499 GALLONS	AL WARREN OIL COMPANY INC	09/01/2026	W1876910	7,226.68
10-180-531000	PW 56 BATTERY	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	135.99
10-180-531000	FIRE M81 TIE ROD END	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	171.26
10-180-531000	FIRE M81 ALIGHNMENT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	250.00
10-180-531000	PARKS 225 OIL FILTER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	21.15
10-180-531000	PD 196 CONTROL ARMS AXLE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	506.47
10-180-531000	PD196 LEFT CVAXLE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	227.48
10-180-531000	STOCK DURANGO AIR FILTERS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	23.62
10-180-531000	STOCK HYD FITTINGS , FILTERS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	80.50
10-180-531000	PD 196 CV AXLE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	237.11
10-180-531000	PD 196 CV AXLE CREDIT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	(146.43)
10-180-531000	PD 196 CV AXLE CREDIT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	(237.11)
10-180-531000	PD 194 BRAKE LIGHT , PIGTAIL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	213.99
10-180-531000	PD 193 HEATER HOSE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	212.44
10-180-531000	PW 9 RED REAR MARKER LIGHTS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	16.52
10-180-531000	PD 153 MOTOR MOUNT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	78.02
10-180-531000	PD 136 FRONT WINDSHIELD	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	514.99
10-180-531000	PD DURANGOS FRT BRAKE PADS STOCK	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	294.57
10-180-531000	PARKS 248 OIL PRESSURE SWITCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	14.07
10-180-531000	PD 191 ENGINE MOTOR MOUNT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	64.37
10-180-531000	RECREATION 253 BATTERY	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	172.34
10-180-531000	PD 155 COMMAND CENTER BATTERIES,	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	542.63
10-180-531000	PD 191 OIL COOLER COOLANT HOSES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	96.31
10-180-531000	PD 191 THERMOSTAT AND GASKET	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	33.91
10-180-531000	PD 191 WATER PUMP , ANTIFREEZE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	190.85
10-180-531000	REC 253 BATTERY CORE RETURNED	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	(22.00)
10-180-531000	FIRE E82 HEATER HOSES FOR REAR HE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	35.48
10-180-531000	STOCK HYDRAULIC FITTINGS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	116.50
10-180-531000	PD 155 KNOB FOR WIPER SWITCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	11.97
10-180-531000	PD 155 WINDOW WIPER BLADES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	11.98
10-180-531000	PD 155 HEADLIGHT SWITCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	30.03
10-180-531000	PD 194 ENGINE BELT, AC OIL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	34.49
10-180-531000	PD 155 YELLOW MARKER LIGHT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	7.33
10-180-531000	PW 9 COOLANT EXPANSION TANK	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	470.00
10-180-531000	FIRE E82 AIR FILTER	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	160.51
10-180-531000	STOCK FILTERS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	324.87
10-180-531000	PD 159 OIL FILTER, BELT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	56.77
10-180-531000	PD 159 BATTERY	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	135.99
10-180-531000	PW 1 BATTERIES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	238.50
10-180-531000	PW 29 REAR WINDOW	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	411.99
10-180-531000	STOCK BRAKE ROTORS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	114.00
10-180-531000	PD 147 FRT BRAKES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	178.99
10-180-531000	PD 132 ENGINE BELTS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	35.88
10-180-531000	PD 159 VALVE COVER GASKET	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	64.96
10-180-531000	PD 159 FUSE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	13.38
10-180-531000	PW12 BELTS (2)	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	99.51

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 180 GARAGE					
10-180-531000	PW 12 BELT TENSIONER	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	257.66
10-180-531000	PD 197 WHEEL TRIM	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	198.00
10-180-531000	1 C65 BATTERY FOR STOCK	INTERSTATE BATTERIES OF SO	08/11/2026	60006336	148.75
10-180-531000	FIRE M80 FRONT WHEEL HUB CAP	BRAD MANNING FORD INC	09/01/2026	349144	167.23
10-180-531000	FUEL FILLER NECKHOSE FOR FORD F35	AMAZON CAPITAL SERVICES	09/01/2026	14LH-7K3V-KY6G	18.99
10-180-531000	WINDSHIELD PRIMER KIT	AMAZON CAPITAL SERVICES	09/01/2026	14LH-7K3V-KY6G	59.97
10-180-531000	STIHL STARTER ROPE W/HANDLE	AMAZON CAPITAL SERVICES	09/01/2026	14LH-7K3V-KY6G	35.80
10-180-531500	PW 95 SAFETY LANE TEST	SUBURBAN DRIVELINE INC	08/28/2026	73456	45.00
10-180-532200	TOOL ORGINING BINS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	23.94
10-180-532200	AIR REGULATOR	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	34.99
10-180-532200	POWER PROBE SELF-CLEANING	AMAZON CAPITAL SERVICES	09/01/2026	14LH-7K3V-KY6G	30.49
10-180-539900	8/32 STOP NUTS ONE BOX	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	8.59
10-180-539900	10 FOOT GARDEN HOSE TO SUPPLY HOS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	19.99
10-180-540200	AC 1234-4 RECYCLING MACHINE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	5,784.00
10-180-540200	1234 FREON FOR NEW MACHINE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	999.99
			Total Department 180 GARAGE		41,365.37
Department: 190 ENGINEERING					
10-190-529200	MIOVISION TRAFFIC STUDIES - TMC S	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	936.00
			Total Department 190 ENGINEERING		936.00
Department: 207 POLICE					
10-207-520207	GLASSES FOR TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	43.83
10-207-520207	TRAFFIC STOP TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	152.26
10-207-520207	DETECTIVE TRAINING-NO REC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	27.52
10-207-520207	TRAFFIC STOP TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	84.61
10-207-520207	TRAFFIC STOP TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	53.32
10-207-520207	TRAFFIC STOP TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	66.92
10-207-520207	TRAINING FOR REC SUPV	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	1,035.00
10-207-520207	TRAFFIC STOP TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	15.17
10-207-520207	TRAFFIC STOP TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	48.92
10-207-520207	TRAFFIC STOP TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	15.08
10-207-520207	TRAFFIC STOP TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	100.37
10-207-520207	FBI -LEEDA TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	795.00
10-207-520207	HOTEL STAY - SRO CONF-TAX	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	21.73
10-207-520207	HOTEL STAY - SRO CONF-TAX	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	21.73
10-207-520207	CAR SEAT INSTALL CERT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	95.00
10-207-520207	CAR SEAT INSTALL CERT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	95.00
10-207-520207	FUEL FOR SRO CONF.	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	25.77
10-207-520207	FUEL FOR SRO CONF	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	12.31
10-207-520207	HOTEL STAY FOR SRO CONF.	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	491.08
10-207-520207	HOTEL STAY FOR SRO CONF.	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	491.08
10-207-520207	CHIEF CHAT NO REC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	20.00
10-207-520207	OFFICER TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	122.50
10-207-520207	OVERNIGHT STAY FOR TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	169.83
10-207-520207	TRAINING -ROL VEL RUL K9	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	418.00
10-207-520207	FOOD FOR TRAINING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	62.17
10-207-520207	STAPLER FOR TRAINING	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	99.00
10-207-520207	ICE FOR 4TH PARADE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	30.46
10-207-520207	CINNAMON ROLLS 4TH PARADE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	167.89

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 207 POLICE					
10-207-520207	CHIEF CHATCPT-NO REC	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	20.00
10-207-520207	DRY ERASE MAGNETIC LABELS	AMAZON CAPITAL SERVICES	07/09/2026	13JVHRFRF971	14.09
10-207-520207	2026 ILHIA TRAINING CONF-DETECTIV	ILLINOIS HOMICIDE	08/26/2026	2026A-0080	2,655.00
10-207-520207	FTO IPAD	VERIZON WIRELESS	07/20/2026	6151468787	1,061.56
10-207-521000	PD INTERNET NO REC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	82.99
10-207-521000	PD INTERNET NO REC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	82.99
10-207-521000	2-PHONE CASES/WATCH COMMANDER	AMAZON CAPITAL SERVICES	07/09/2026	13JVHRFRF971	13.30
10-207-521000	EMPLOYEE CELLS	VERIZON WIRELESS	07/20/2026	6151468787	1,178.06
10-207-526301	POST RETIREMENT BENEFIT SEPT 2026	BREGMAN, MARC	09/01/2026	PDRET01-SEPT2026	125.00
10-207-526301	POST RETIREMENT BENEFIT SEPT 2026	MCNAMARA, JAMES J	09/01/2026	PDRET02-SEPT2026	125.00
10-207-526301	POST RETIREMENT BENEFIT SEPT 2026	SUBJECT, DAVID	09/01/2026	PDRET03-SEPT2026	125.00
10-207-529900-OCS004	RENEWAL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	45.00
10-207-529900-OCS016	BACKGOUND CHECKS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	100.00
10-207-529900-OCS016	BACKGROUND CHECKS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	126.85
10-207-529900-OCS043	BASIC LICENSE BUNDLE	AXON ENTERPRISE INC	08/20/2026	INUS473525	964.39
10-207-530100	SHADOW BOX -CIHAK	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	294.40
10-207-531700	SOS PLATE RENEWAL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	11.12
10-207-531700	CERT MAIL CONF PLATES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	11.12
10-207-531700	CERT MAIL CONF PLATES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	11.12
10-207-531700	REPLACEMENT FILTERS	AMAZON CAPITAL SERVICES	07/09/2026	13JVHRFRF971	27.99
10-207-532009	K-9 LUKE DOG FOOD	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	117.42
10-207-533309	BREACHER BAR	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	177.00
10-207-533309	AMMO FOR RANGE	O'HERRON CO INC, RAY	08/26/2026	2496979	2,076.00
10-207-539900	LUNCH PROVIDED FOR SOPHIA -STAYED	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	14.25
10-207-539900	DETECTIVE RING CAMERA	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	(11.99)
10-207-539900	CAKE/SUPPLIES FOR CIHAKS RETIREME	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	97.69
10-207-539900	SUPPLIES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	164.89
10-207-539900	RATCHET STRAPS-DETECTIVE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	15.99
10-207-539900	TOASTER OVEN	AMAZON CAPITAL SERVICES	07/09/2026	13JVHRFRF971	64.99
10-207-539900	MIRRORS FOR MEN/WOMEN LOCKER ROOM	AMAZON CAPITAL SERVICES	07/09/2026	13JVHRFRF971	144.38
				Total Department 207 POLICE	14,717.15
Department: 211 FIRE					
10-211-521001	MDT AND IPADS MONTHLY SERVICE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	480.30
10-211-521001	MDT AND IPADS MONTHLY SERVICE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	468.95
10-211-526301	POST RETIREMENT BENEFIT AUG 2026	BARTON, MICHAEL	09/01/2026	FDRET01-SEPT2026	125.00
10-211-526301	POST RETIREMENT BENEFIT - SEPT 20	BICKLEY, JAMES	09/01/2026	FDRET02-SEPT2026	125.00
10-211-526301	POST RETIREMENT BENEFIT SEPT 2026	BLASKOVICH, ERIC	09/01/2026	FDRET03-SEPT2026	125.00
10-211-526301	POST RETIREMENT BENEFIT SEPT 2026	SPARGER, JEFFREY	09/01/2026	FDRET04-SEPT2026	125.00
10-211-529901	FIRE GENERATOR 55,BATTERY	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	135.99
10-211-529901	MASK BAG TAG - JI	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	15.00
10-211-529901	MEETING TRANSCRIPTION MONTHLY SER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	19.75
10-211-529901	LID LOCK REPAIR	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	8.66
10-211-529901	ST. 82 OVEN REPAIR	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	65.00
10-211-529901	WIREMOLD COMPONENTS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	19.19
10-211-529901	CHROMEBOX	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	518.44
10-211-529901	MASK IDENTIFIER	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	20.00
10-211-529901	MEETING TRANSCRIPTION MONTHLY SER	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	19.75
10-211-529901	SHIPPING FOR GAS MONITOR REPAIR	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	13.30
10-211-529901	TRUFUEL	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	113.32

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 211 FIRE					
10-211-530101	PROBATIONARY T-SHIRT STOCK	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	192.00
10-211-531121	9/11 CHALLENGE COINS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	1,424.00
10-211-531121	MICROPHONE STAND	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	28.47
10-211-531121	PATRIOT DAY FABRIC MARKERS BLACK	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	12.59
10-211-531121	PATRIOT DAY FABRIC MARKERS SILVER	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	23.80
10-211-531121	MICROPHONE CLIP	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	7.59
10-211-531401	PAPER TOWELS, CENTER PULL TOWELS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	272.80
10-211-531401	TOILET BOWL CLEANER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	89.75
10-211-531401	PAPER TOWELS, TOILET PAPER, CLEAN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	472.00
10-211-531401	CART	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	49.90
10-211-531401	C-FOLD TOWELS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	116.70
10-211-531401	C-FOLD TOWELS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	116.70
10-211-531401	PAPER TOWELS, MOP HEADS, DISPENSE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	355.00
10-211-531401	PAPER TOWELS, GARBAGE BAGS, DISHW	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	263.80
10-211-531501	HOUSEKEEPING CART, MOP BUCKETS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	1,157.40
10-211-531501	STATION PAINT SUPPLIES RETURN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	(5.48)
10-211-531501	STATION PAINT SUPPLIES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	44.38
10-211-531501	STATION PAINT SUPPLIES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	66.32
10-211-531501	WALL MOUNTING BRACKETS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	43.80
10-211-531501	ST. 81 EMPLOYMENT LAW POSTING FRA	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	29.00
10-211-531501	REFRIGERATOR THERMOMETER	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	7.28
10-211-531501	LED STRIP LIGHTS	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	16.99
10-211-531501	DELUXE CORD GRIP CABLE	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	106.98
10-211-531501	SPACKLE WALL REPAIR	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	5.40
10-211-531501	WASHING MACHINE CLEANER	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	11.98
10-211-531501	RAID WASP SPRAY	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	9.99
10-211-531501	CAP	LOMBARD ACE HARDWARE (FIRE	08/21/2026	267194	8.99
10-211-531701	POCKET SCREWDRIVER	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	13.99
10-211-531701	HP26A TONER CARTRIDGES	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	173.89
10-211-531701	ELEVATOR KEYS	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	19.58
10-211-531701	FIRE ALARM BOX KEYS	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	19.98
10-211-531701	BULLETIN BOARD	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	39.99
10-211-531701	AAA BATTERIES	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	13.41
10-211-531701	11X17 COPY PAPER	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	50.88
10-211-531701	KEY RINGS	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	5.89
10-211-539901	MOVE ICC TO ST. 81 CREW LUNCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	239.64
10-211-539901	YORK CENTER MUTUAL AID THANK YOU	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	550.83
10-211-539901	LOCK BOXES & KEYS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	312.94
10-211-539901	COFFEE CUPS	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	28.19
10-211-539901	FIRE HOSE REPLACEMENT	AIR ONE EQUIPMENT INC	08/27/2026	240410	2,638.00
10-211-539901	GLOVES FOR AMBULANCES	MMSGS	08/18/2026	26067013	537.47
				Total Department 211 FIRE	11,970.46
Department: 240 GARBAGE					
10-240-299004	ELECTRONICS RECYCLING	EWORKS ELECTRONICS SERVICE	08/31/2026	26-263	225.00
10-240-299004	AUGUST 2026 GARBAGE & RECYCLING	LRS LLC	08/31/2026	LR13180395	165,829.80
				Total Department 240 GARBAGE	166,054.80
Department: 251 PUBLIC WORKS					
10-251-529901	GOOGLE WORKSPACE MONTHLY SUBSCRIP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	72.00

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 251 PUBLIC WORKS					
10-251-529901	GOOGLE VOICE MONTHLY SUBSCRIPTION	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	14.75
10-251-529901	GOOGLE WORKSPACE MONTHLY SUBSCRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	72.00
10-251-529901	GOOGLE VOICE MONTHLY SUBSCRIPTION	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	14.88
10-251-529901	REPLENISH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	50.00
10-251-529901	REPLENISH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	1.70
10-251-529901	3 CAR WASHES	ZIPS CAR WASH LLC	07/02/2026	1BROMO4L-0028	16.29
10-251-532228	DRILL SET	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	19.99
10-251-532228	CM NUTDRIVER SET	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	32.99
10-251-539901	TUBE CUTTER 1-5/8''	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	24.99
10-251-539901	CEMENT PVC, PRIMER PVC PURPLE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	36.98
10-251-539901	HAND FILE LONG, FILE RND BASTARD	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	33.56
10-251-539901	LIGHT POLE HARDWARE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	351.85
10-251-539901	MLW SOCKET ADPT SET 3PC, LW SOCKE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	35.96
10-251-539901	ACE SHOVEL RNDPT, D-HND 29''	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	58.98
10-251-539901	CONDUIT CONNECTORS, ADAPTOR, PVC	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	160.63
10-251-539901	OTHER SUPPLIES	MCMASTER CARR	08/13/2026	70091553	26.17
			Total Department 251 PUBLIC WORKS		1,023.72
			Total Fund 10 CORPORATE FUND		317,693.47
Fund: 11 CAPITAL / BUILDING & LAND IMPROVE FUND					
Department: 206 BUILDING IMPROVEMENTS					
11-206-540102-FD0001	ST. 81 TOILET PAPER HOLDERS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	58.50
11-206-540102-FD0001	ST. 81 BOLLARD COVERS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	895.92
11-206-540102-FD0001	ST. 81 DRAIN GRATE, VELCRO, CAULK	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	47.43
11-206-540102-FD0001	ST. 81 KITCHEN HOODED WALL VENT C	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6-FD	40.63
11-206-540102-FD0001	ST. 81 KITCHEN ELECTRIC	VILLA PARK ACE HARDWARE	08/21/2026	26089	12.61
11-206-540102-PK0001	BATHROOM PROJECT COST	ROBE INC	08/10/2026	3957	46,664.51
11-206-540102-PW0002	COMPRESSOR FOR PW BUILDING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	10,430.38
11-206-540102-VH0001	VH PLUMBING IMPROVEMENTS	MIDLAND PLUMBING & SEWER	08/24/2026	13174	29,600.00
			Total Department 206 BUILDING IMPROVEMENTS		87,749.98
			Total Fund 11 CAPITAL / BUILDING & LAND IMPROVE FUND		87,749.98
Fund: 19 DUI TECHNOLOGY FUND					
Department: 520 CONTRACTUAL					
19-520-540101	INTOX SUPPLIES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	3,114.00
			Total Department 520 CONTRACTUAL		3,114.00
			Total Fund 19 DUI TECHNOLOGY FUND		3,114.00
Fund: 25 TIF 7 FUND-ST CHARLES RD-COMM					
Department: 241 TIF CAPTAL & CONTRACTUAL					
25-241-529901	JUNE LEGAL FEES	MONTANA & WELCH LLC	08/19/2026	19461	200.00
			Total Department 241 TIF CAPTAL & CONTRACTUAL		200.00
			Total Fund 25 TIF 7 FUND-ST CHARLES RD-COMM		200.00
Fund: 26 TIF 6 FUND-NO ARDMORE/VERMONT					
Department: 241 TIF CAPTAL & CONTRACTUAL					
26-241-529901	SPEC PERFORM - JULY LEGAL	STEPHEN D. HELM	08/24/2026	H25-4395-SDH-10	2,850.00
26-241-529901	LEGAL FEES JUNE	MONTANA & WELCH LLC	08/19/2026	19460	1,700.00

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 26 TIF 6 FUND-NO ARDMORE/VERMONT					
Department: 241 TIF CAPTAL & CONTRACTUAL					
				Total Department 241 TIF CAPTAL & CONTRACTUAL	4,550.00
				Total Fund 26 TIF 6 FUND-NO ARDMORE/VERMONT	4,550.00
Fund: 32 MFT FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
32-202-529900	ROOSEVELT ROAD SIGNAL MAINTENANCE	ILLINOIS STATE TREASURER I	08/17/2026	68639	2,431.14
32-202-539325	60 COBRA HEAD LUMINAIRES	LEOTEK ELECTRONICS USA LLC	08/06/2026	4116613866	17,640.00
				Total Department 202 EQUIPMENT AND SUPPLIES	20,071.14
				Total Fund 32 MFT FUND	20,071.14
Fund: 35 RECREATION FUND					
Department: 201 ADMINISTRATION					
35-201-520201	CPR ECARDS - RECREATION STAFF	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	187.50
35-201-529501	PERMIT COST FOR VILLA FEST	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	51.13
35-201-529501	CLOTH RAGS FOR BEER TENT	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	26.49
35-201-529501	WRIST BANDS	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	8.88
35-201-529501	LAMINATED SHEETS	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	34.80
35-201-531701	OFFICE SUPPLIES	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	9.98
				Total Department 201 ADMINISTRATION	318.78
Department: 216 PRP-BLDG & GROUNDS					
35-216-522216	FILTERS FOR VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	822.33
35-216-529916	IOWA, PARKS BLDG, NORTH TERRACE &	A.G.A.D. PEST CONTROL	08/27/2026	128036	230.00
35-216-531416	JANITORAL SUPPLIES FOR PARKS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	1,406.16
35-216-531416	JANITORAL SUPPLIES FOR VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	666.10
35-216-531416	SHOWER CURTAIN VPRC	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	69.93
35-216-531416	SHOWER CURTAIN VPRC	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	9.99
35-216-531416	JANITORIAL SUPPLIES PARKS	CASE LOTS INC	08/25/2026	33005	1,384.58
35-216-531516	PARTS FOR WATER FOUNTIAN AT VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	140.40
35-216-539916	STATION 81 FENCE SCREWS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	32.97
35-216-539916	HOSE FITTING FOR WATERING	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	35.92
				Total Department 216 PRP-BLDG & GROUNDS	4,798.38
Department: 235 PROGRAMS					
35-235-528135	CY26 PORTABLE TOILET SERVICES WIL	SBC WASTE SOLUTIONS INC	08/31/2026	979963	90.00
35-235-528135	CY26 PORTABLE TOILET AT WESTMORE	SBC WASTE SOLUTIONS INC	08/31/2026	979964	90.00
35-235-529735	WEEK 4 SUMMER CAMP FIELD TRIP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	834.25
35-235-529935	CY26 OTHER CONTRACTUAL SERVICES Y	LABOUNTY, KIMBERLY	06/29/2026	VPPR1022	1,170.00
35-235-529935	SUMMER CAMP FIELD TRIP WEEK 3	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	572.00
35-235-529935	SUMMER CAMP FIELD TRIP WEEK 1	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	909.09
35-235-529935	SUMMER CAMP FIELD TRIP WEEK 2	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	1,099.20
35-235-529935	SUMMER CAMP FIELD TRIP WEEK 7	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	1,100.00
35-235-529935	SUMMER CAMP FIELD TRIP WEEK 8	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	465.00
35-235-529935	SUMMER CAMP FIELD TRIP WEEK 6	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	1,996.00
35-235-529935	CY26 CONTRACTUAL ATHLETIC INSTRUC	COOK, NATHAN	09/01/2026	17	1,260.00
35-235-529935	CONTRACTUAL DOG OBEDIENCE CLASS 8	DOGS CAN DO LLC	08/31/2026	175	638.40
35-235-529935	CY26 CONTRACTUAL SUMMER SOCCER CA	COACHFINDER.SOCCER LLC	08/31/2026	083126	1,744.00
35-235-529935	CY26 OTHER CONTRACTUAL SERVICES Y	LABOUNTY, KIMBERLY	08/27/2026	VPPR1023	663.00
35-235-529935	CY26 CONTRACTUAL PUPPY YOGA CLASS	BRAND JOURNEY AGENCY LLC	09/03/2026	YL4ZKJBF0001	470.00
35-235-531135	BINGO PRIZES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	43.37

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 35 RECREATION FUND					
Department: 235 PROGRAMS					
35-235-531135	DONUTS-5/27 DONUT BINGO	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	27.94
35-235-531135	BINGO PRIZES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	52.70
35-235-531135	LET'S DO LUNCH CARRYOUT 5/28	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	140.00
35-235-531135	SENIOR BUS TRIP DINNER 5/31	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	269.35
35-235-531135	SUPPLIES-CULINARY CLASS 6/7	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	13.75
35-235-531135	SUPPLIES-SENIOR PROGRAM/SUMMER CO	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	131.63
35-235-531135	SUPPLIES-CULINARY CLASS 6/7	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	171.12
35-235-531135	BREAKFAST-CHICK-FIL-A BINGO 6/2	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	197.59
35-235-531135	TABLECLOTHS-SENIOR PROGRAMS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	41.98
35-235-531135	GROCERIES-JUNE BIRTHDAY LUNCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	42.90
35-235-531135	DONUTS-6/3 DONUT BINGO	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	25.98
35-235-531135	GROCERIES-JUNE BIRTHDAY LUNCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	64.33
35-235-531135	GROCERIES-JUNE BIRTHDAY LUNCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	38.38
35-235-531135	GROCERIES-JUNE BIRTHDAY LUNCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	14.81
35-235-531135	BINGO PRIZES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	37.74
35-235-531135	GROCERIES-JUNE BIRTHDAY LUNCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	7.91
35-235-531135	LUNCH-SENIOR TRIP WATERLEAF RESTA	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	400.00
35-235-531135	DINING DESTINATIONS SENIOR TRIP 6	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	268.15
35-235-531135	GROCERIES-JUNE BIRTHDAY LUNCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	14.45
35-235-531135	BINGO PRIZES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	20.80
35-235-531135	SENIOR BUS TRIP 6/14	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	788.32
35-235-531135	BINGO PRIZES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	18.94
35-235-531135	PRIZES/WATER FOR SENIOR TRIP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	19.34
35-235-531135	DONUTS-6/17 DONUT BINGO	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	23.58
35-235-531135	LET'S DO LUNCH CARRYOUT 6/11	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	185.75
35-235-531135	CUTTING BOARD-CULINARY PROGRAMS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	12.07
35-235-531135	TO-GO CONTAINERS-SENIOR PROGRAMS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	20.01
35-235-531135	BINTO PRIZES/SENIOR PROGRAM SUPPL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	61.49
35-235-531135	SUPPLIES-SIP & PAINT PROGRAM	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	9.00
35-235-531135	SENIOR PROGRAM SUPPLIES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	20.48
35-235-531135	ADMISSIONS-SENIOR CO-OP BUS TRIP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	78.00
35-235-531135	LET'S DO LUNCH 6/25	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	151.24
35-235-531135	LUNCH-JUNE MYSTERY TRIP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	294.41
35-235-531135	GROCERIES-JUNE NATIONAL DAY	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	30.28
35-235-531135	GROCERIES-JUNE NATIONAL DAY	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	26.80
35-235-531135	SUMMER CAMP ACTIVITY AND CRAFT SU	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	276.55
35-235-531135	MINI CAMP SUPPLIES	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	72.95
35-235-531135	KITCHEN KNIFE AND WATER FOR CONCE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	15.88
35-235-531135	EXTRA SUNSCREEN CAMP/CAMP BAGS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	70.53
35-235-531135	SUMMER CAMP CRAFT AND ACTIVITY SU	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	141.94
35-235-531135	WATER AND ICE CONCERT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	12.97
35-235-531135	SUMMER CAMP CRAFT SUPPLIES/SATURD	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	24.25
35-235-531135	MINI CAMP AND SUMMER CAMP CRAFT S	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	105.96
35-235-531135	DUPAGE COUNTY PERMIT FOR SUMMER C	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	51.13
35-235-531135	DUPAGE PERMIT FOR KIWANIS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	51.13
35-235-531135	MUSIC LICENSE FOR SUMMER CONCERTS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	459.00
35-235-531135	LUNCH-SENIOR BUS TRIP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	206.60
35-235-531135	POSTAGE-EAC MAILING	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	25.80
35-235-531135	6/20 DINING DESTINATIONS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	305.92

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 35 RECREATION FUND					
Department: 235 PROGRAMS					
35-235-531135	SUPPLIES-SIP & PAINT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	58.23
35-235-531135	SUPPLIES-COOKING LOCAL CLASS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	7.50
35-235-531135	7/7 CO-OP SENIOR BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	78.00
35-235-531135	7/2 LETS-DO-LUNCH CARRYOUT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	228.75
35-235-531135	SUPPLIES-COOKING LOCAL CLASS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	18.75
35-235-531135	7/7 CO-OP SENIOR BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	690.00
35-235-531135	7/7 CO-OP SENIOR BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	460.00
35-235-531135	GROCERIES-JULY BIRTHDAY BINGO	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	36.68
35-235-531135	SUPPLIES-COOKING LOCAL CLASS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	143.31
35-235-531135	TICKETS-8/2 SENIOR BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	264.00
35-235-531135	GROCERIES-JULY BIRTHDAY BINGO	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	211.40
35-235-531135	LUNCH FOR 7/7 CO-OP BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	443.91
35-235-531135	GROCERIES-JULY BIRTHDAY BINGO	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	32.70
35-235-531135	APPRECATION GIFT-COOKING LOCAL	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	50.00
35-235-531135	BINGO PRIZES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	49.00
35-235-531135	COOLER-SENIOR BUS TRIPS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	44.99
35-235-531135	7/14 DINING DESTINATIONS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	183.20
35-235-531135	TICKETS 8/16 SENIOR BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	135.00
35-235-531135	TICKETS 8/16 SENIOR BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	135.00
35-235-531135	LUNCH FOR 7/15 BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	190.39
35-235-531135	7/16 LETS DO LUNCH CARRYOUT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	201.20
35-235-531135	GROCERIES-IN-HOUSE PROGRAM	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	28.00
35-235-531135	BINGO PRIZES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	12.21
35-235-531135	LUNCH FOR 7/21 BUS TRIP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	264.00
35-235-531135	BINGO PRIZES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	48.16
35-235-531135	7/23 LET'S DO LUNCH CARRYOUT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	196.00
35-235-531135	TABLECLOTHS FOR PROGRAMS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	43.97
35-235-531135	SUMMER CAMP CRAFT SUPPLIES	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	36.51
35-235-531135	SUMMER CAMP CRAFT RETURN	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	(11.98)
35-235-531135	LAMINATOR ROLLS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	177.06
35-235-531135	CRAFT STICKS-REGULAR , JUMBO SIZE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	19.48
35-235-531135	SUMMER CAMP CRAFT SUPPLIES AND SC	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	132.99
35-235-531135	MINI CAMP CRAFT SUPPLIES, CAMP TR	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	60.87
35-235-531135	ADAPTER CABLE	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	9.20
35-235-531135	STICKERS	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	7.83
35-235-531135	TOY CARS AND TOYS	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	39.98
35-235-531135	FACE STICKERS	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	5.89
35-235-531135	PROGRAM SUPPLIES	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	(1.32)
35-235-531135	SOCCER NETS - PR 18.5' AND PR 9'	ANTHEM SPORTS LLC	08/20/2026	477986	426.71
				Total Department 235 PROGRAMS	23,843.71
				Total Fund 35 RECREATION FUND	28,960.87
Fund: 36 PARKS FUND					
Department: 201 ADMINISTRATION					
36-201-531701	FINGER TIP MOISTENERS FOR PAPERWO	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	5.99
			Total	Department 201 ADMINISTRATION	5.99
Department: 202 EQUIPMENT AND SUPPLIES					
36-202-529902	2026 VILLAGE LANDSCAPE MAINTENANC	LANGTON GROUP	09/01/2026	68855	2,103.00

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 36 PARKS FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
36-202-530502	TOP SOIL VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	94.00
36-202-530502	SEED STARTER VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	168.63
36-202-530502	SEED STARTER VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	555.00
36-202-530502	TOP SOIL VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	141.00
36-202-530502	MULCH PARKS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	660.00
36-202-530502	ROUND UP FOR WEEDS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	292.03
36-202-530502	HARDWARE SPRAYER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	3.98
36-202-530502	NOZZLE SPRAYER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	44.34
36-202-530502	TURF CHEMICALS HIGHRIDGE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	367.50
36-202-530502	DIRT FOR PRARIE PATH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	70.50
36-202-530502	MULCH FOR VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	275.00
36-202-530502	MULCH FOR VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	275.00
36-202-530502	MULCH FOR VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	220.00
36-202-530502	VPRC MULCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	220.00
36-202-530502	VPRC MULCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	660.00
36-202-530502	VPRC MULCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	165.00
36-202-530502	VPRC MULCH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	47.00
36-202-530502	TOP SOIL CORP BUILDINGS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	141.00
36-202-530502	TOP SOIL CORP BUILDINGS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	282.00
36-202-530502	TOP SOIL CORP BUILDINGS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	94.00
36-202-530502	TEMP FIRE STATION MULCH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	165.00
36-202-530502	TEMP FIRE STATION MULCH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	165.00
36-202-530502	TEMP FIRE STATION MULCH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	55.00
36-202-530502	TURF REPAIRS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	631.54
36-202-532002	CORDS FOR CONCERT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	388.36
36-202-532202	PITCH FORK	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	41.99
36-202-532202	TOOL REPLACEMENT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	53.94
36-202-532202	GARDENING TOOLS VH	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	142.94
36-202-532202	GARDENING TOOLS VPRC	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	115.97
36-202-532202	SHOP TAPE MEASURE	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	19.99
36-202-532202	SHOP TOOLS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	26.70
36-202-532202	SHOP TOOLS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	22.94
36-202-532502	TOOLS FOR CUT METAL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	33.05
36-202-532502	WEED WACKER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	448.97
36-202-532502	TRACTOR TAILGATE	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	74.89
36-202-539902	SPRAY GLOSS BLACK	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	17.98
36-202-539902	TRAILER END	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	20.95
36-202-539902	WHEELS GRILL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	100.93
36-202-539902	ANT POISON	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	20.99
36-202-539902	PROPANE EXCHANGE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	26.99
36-202-539902	CAPS FOR PAD @ LUFKIN	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	81.09
36-202-539902	TAPE FOR TRACTOR	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	17.99
36-202-539902	BENCH REPAIR IOWA	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	89.98
36-202-539902	WATER FOR BREAK ROOM	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	101.14
36-202-539902	WATER FOR BREAK ROOM	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	80.36
36-202-539902	PARKS FIRE STATION RAID FOR ANTS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	11.98
36-202-539902	HOSE FOR WATERING CREW	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	224.82
36-202-539902	2 CYCLE OIL	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	26.95
36-202-539902	BREAK ROOM WATER	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	98.42

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 36 PARKS FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
36-202-539902	BREAK ROOM WATER	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	98.42
36-202-539902	CHALK PAINT	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	69.98
36-202-539902	CANOPY TENTS	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	342.24
36-202-539902	POWER CORDS TRAILER SPEAKERS	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	17.14
36-202-539902	SHAPIE MARKERS BOXES	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	16.59
36-202-539902	BANKER BOXES	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	48.99
36-202-539902	ORGANIZER	AMAZON CAPITAL SERVICES	09/01/2026	17TF-NWTD-6K13	14.22
			Total Department 202 EQUIPMENT AND SUPPLIES		10,793.41
			Total Fund 36 PARKS FUND		10,799.40
Fund: 41 SWIMMING POOL & REC FUND					
Department: 203 MAINTENANCE					
41-203-531400	POOL MAT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	134.64
41-203-531400	POOL PH TEST/ DPD/ SODA ASH/	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	231.72
41-203-531500	POOL WARRREN 88 INCH	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	37.97
41-203-531500	POOL HOSE RUBBER/ EPOXY	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	31.36
41-203-531500	OUTDOOR ALARM FOR POOL	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	593.50
41-203-532503	POOL BREAKERS POOL 20 AMP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	43.17
41-203-532503	POOL VAC HOSE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	94.08
41-203-532503	POOL TLR DPD TESTER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	96.94
41-203-532503	POOL TRAP WALL TUBE BRASS FITTING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	136.34
41-203-532503	POOL GFI 20 AMP	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	24.55
41-203-532503	CHLORINATOR PARTS	AQUA PURE ENTERPRISES INC	08/26/2026	0159762-IN	278.85
41-203-539900	POOL PVS BOX	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	91.95
41-203-539900	POOL PVC ADAPTER FOR PUMP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	87.23
41-203-539900	POOL KEYS FOR SUE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	14.96
41-203-539900	KEYS MADE FOR SUMMER HELP	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	303.87
			Total Department 203 MAINTENANCE		2,201.13
Department: 301 POOL&REC-ADMIN					
41-301-520201	LIFEGUARD CERTIFICATIONS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	240.00
41-301-520201	LIFEGUARD CERTIFICATIONS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	96.00
41-301-531701	INCENTIVE PINS FOR POOL STAFF	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	122.15
41-301-531701	WATER TO SELL AND FOR POOL STAFF	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	9.98
41-301-531701	WATER TO SELL AND FOR POOL STAFF	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	33.94
			Total Department 301 POOL&REC-ADMIN		502.07
Department: 302 POOL					
41-302-531102	POOL THERMOMETER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	4.99
41-302-531102	POOL KEYS	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	4.99
			Total Department 302 POOL		9.98
			Total Fund 41 SWIMMING POOL & REC FUND		2,713.18
Fund: 60 STREET IMPROVEMENT FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
60-202-521002	DEVICE REIMBURSEMENT - 2026-08	MANTELS, KEVIN	08/30/2026	PHONEKM202608	24.99
60-202-521002	USAGE REIMBURSEMENT - 2026-08	MANTELS, KEVIN	08/30/2026	PHONEKM202608	24.99
			Total Department 202 EQUIPMENT AND SUPPLIES		49.98
Department: 210 CONTRACTUAL - SP REV FUNDS					

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 60 STREET IMPROVEMENT FUND					
Department: 210 CONTRACTUAL - SP REV FUNDS					
60-210-529910	HARVARD & JACKSON RESURFACING CON	BROTHERS ASPHALT PAVING IN	08/20/2026	HARVARD & JACKSON 0	65,368.72
			Total Department 210 CONTRACTUAL - SP REV FUNDS		65,368.72
Department: 603 REFERENDUM 2014					
60-603-529903	HARVARD & JACKSON EXECUTED CONTRA	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	11.95
60-603-529903	HARVARD & JACKSON RESURFACING CON	BROTHERS ASPHALT PAVING IN	08/20/2026	HARVARD & JACKSON 0	575,000.00
			Total Department 603 REFERENDUM 2014		575,011.95
			Total Fund 60 STREET IMPROVEMENT FUND		640,430.65
Fund: 64 CAPITAL PROJECTS FUND					
Department: 210 CONTRACTUAL - SP REV FUNDS					
64-210-529910	2025 SIDEWALK IMPROVEMENTS CONSTR	DAVIS CONCRETE CONSTRUCTIO	08/05/2026	2025 SIDEWALK PE #0	201,214.86
			Total Department 210 CONTRACTUAL - SP REV FUNDS		201,214.86
			Total Fund 64 CAPITAL PROJECTS FUND		201,214.86
Fund: 65 EQUIPMENT REPLACEMENT FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
65-202-529900	EQUIP FOR NEW CAR	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	935.86
65-202-539900	PD 194 WINDOW TINTING	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	300.00
65-202-539900	USB CABLES	AMAZON CAPITAL SERVICES	09/01/2026	14LH-7K3V-KY6G	15.11
			Total Department 202 EQUIPMENT AND SUPPLIES		1,250.97
			Total Fund 65 EQUIPMENT REPLACEMENT FUND		1,250.97
Fund: 82 WATER SUPPLY FUND					
Department: 201 ADMINISTRATION					
82-201-520201	IPSI	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	850.00
82-201-521001	AUGUST 2026 CELL PHONE USAGE	JESSEN, DENNIS	08/21/2026	2026 AUGUST CELL PH	49.98
82-201-521001	WIRELESS SERVICE FROM 07/21/26 to	T-MOBILE USA (PW)	07/21/2026	205079815-19	21.84
82-201-521001	WIRELESS SERVICE FROM 07/21/26 to	T-MOBILE USA (PW)	07/21/2026	205079815-19	21.84
82-201-529901	BACKUP SOFTWARE SUPPORT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	500.00
			Total Department 201 ADMINISTRATION		1,443.66
Department: 202 EQUIPMENT AND SUPPLIES					
82-202-529302	LEAD & COPPER WATER SAMPLES	PACE ANALYTICAL SERVICES L	08/27/2026	267224894	140.00
82-202-529302	LEAD & COPPER WATER SAMPLES	PACE ANALYTICAL SERVICES L	08/31/2026	267225415	175.00
82-202-529302	LEAD & COPPER WATER SAMPLES	PACE ANALYTICAL SERVICES L	07/31/2026	267221846	43.00
82-202-529302	LEAD & COPPER WATER SAMPLES	PACE ANALYTICAL SERVICES L	07/27/2026	267221364	78.00
82-202-529302	3RD QUARTER DBP WATER SAMPLES	PACE ANALYTICAL SERVICES L	07/30/2026	267221704	488.00
82-202-529302	SCHOOL & DAYCARE LEAD & COPPER SA	PACE ANALYTICAL SERVICES L	04/02/2026	267209498	43.00
82-202-529302	SCHOOL/DAYCARE LEAD & COPPER WATE	PACE ANALYTICAL SERVICES L	04/02/2026	267209494	43.00
82-202-529302	SCHOOL / DAYCARE LEAD & COPPER WA	PACE ANALYTICAL SERVICES L	04/02/2026	267209496	43.00
82-202-529302	SCHOOL / DAYCARE LEAD & COPPER WA	PACE ANALYTICAL SERVICES L	04/02/2026	267209495	95.50
82-202-529302	SCHOOL / DAYCARE LEAD & COPPER WA	PACE ANALYTICAL SERVICES L	04/02/2026	267209493	95.50
82-202-529902	PW GENERATOR 50 OIL	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	29.75
82-202-529902	PW 51 BATTERY	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	135.99
82-202-535302	SERVICE LINE MATERIALS	ZIEBELL WATER SERVICE	08/26/2026	273431-000	37.76
82-202-539902	TAPE MEASURER	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	11.99
82-202-539902	COLOR KNIT 600LBS PALLET- 24 25LB	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	1,283.63
82-202-539902	PPE, SAFETY GLASSES AND EAR PLUGS	PRO SAFETY INC	08/28/2026	SI006282	184.21

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 82 WATER SUPPLY FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
82-202-539902	PIPE TO REPAIR B-BOX	LOMBARD ACE HARDWARE (GENE	08/26/2026	267243	15.96
82-202-539902	CANDY FOR BIG RIGS AND KIDS	AMAZON CAPITAL SERVICES	09/01/2026	14LH-7K3V-KY6G	135.53
		Total Department 202 EQUIPMENT AND SUPPLIES			3,078.82
		Total Fund 82 WATER SUPPLY FUND			4,522.48
Fund: 83 WASTEWATER FUND					
Department: 201 ADMINISTRATION					
83-201-521001	WIRELESS SERVICE FROM 07/21/26 to	T-MOBILE USA (PW)	07/21/2026	205079815-19	21.84
83-201-529901	BACKUP SOFTWARE SUPPORT	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	500.00
		Total Department 201 ADMINISTRATION			521.84
Department: 202 EQUIPMENT AND SUPPLIES					
83-202-530202	CHLORINE TANK RENTAL WWFTF	ALEXANDER CHEMICAL CORP	08/28/2026	111683	58.00
83-202-535602	MANHOLE MATERIALS	GREAT LAKES CONCRETE LLC	08/21/2026	520976	1,098.52
83-202-535702	SEWER MAIN PARTS FOR REPAIR AT 30	MID-AMERICAN WATER, INC.	08/19/2026	272699A	2,005.65
83-202-535702	SEWER MAIN PARTS	ZIEBELL WATER SERVICE	08/25/2026	273415-000	275.00
83-202-539902	LUBE	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	27.00
83-202-539902	UR CONNECTOR, FREIGHT	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	191.98
83-202-539902	HD 12''	U.S. BANK PCARDS	06/01/2026	JUNE PCARD	264.00
83-202-539902	CUFFS	U.S. BANK PCARDS	08/01/2026	JULY 2026 PCARD	264.00
83-202-539902	CANDY FOR BIG RIGS AND KIDS	AMAZON CAPITAL SERVICES	09/01/2026	14LH-7K3V-KY6G	74.74
83-202-540102	226 N BIERMANN AVE - HOME FLOOD P	STEVEN ARELLANO	09/02/2026	SR 37	3,500.00
		Total Department 202 EQUIPMENT AND SUPPLIES			7,758.89
		Total Fund 83 WASTEWATER FUND			8,280.73

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
--- TOTALS BY FUND ---					
		10	CORPORATE FUND		317,693.47
		11	CAPITAL / BUILDING & LAND IMP		87,749.98
		19	DUI TECHNOLOGY FUND		3,114.00
		25	TIF 7 FUND-ST CHARLES RD-COMM		200.00
		26	TIF 6 FUND-NO ARDMORE/VERMONT		4,550.00
		32	MFT FUND		20,071.14
		35	RECREATION FUND		28,960.87
		36	PARKS FUND		10,799.40
		41	SWIMMING POOL & REC FUND		2,713.18
		60	STREET IMPROVEMENT FUND		640,430.65
		64	CAPITAL PROJECTS FUND		201,214.86
		65	EQUIPMENT REPLACEMENT FUND		1,250.97
		82	WATER SUPPLY FUND		4,522.48
		83	WASTEWATER FUND		8,280.73
		Total For All Funds:			1,331,551.73

Julie Settles 9.3.26

9-3-26

BILL LISTING TO BE PRESENTED TO THE VILLAGE BOARD OF TRUSTEES ON 9.14.26 CY WEEKLY CHECK RUN DATED 9.14.26

INVOICE DISTRIBUTION REPORT FOR VILLAGE OF VILLA PARK

EXP CHECK RUN DATES 09/14/2026 - 09/14/2026
POSTED AND UNPOSTED
OPEN AND PAID

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 110 PUBLIC AFFAIRS					
10-110-521102	DUI PROSECUTION SERVICES-OCTOBER	LAW OFFICE OF MICHELLE L.	09/01/2026	2026-10	1,600.00
10-110-566700	COMMUNITY F.U.N. COMMISSION	AMAZON CAPITAL SERVICES	07/01/2026	17KH-31KV-LNKN	228.45
				Total Department 110 PUBLIC AFFAIRS	1,828.45
Department: 120 MANAGER-ADMININSTRATION					
10-120-539900	VM OFFICE SUPPLIES	AMAZON CAPITAL SERVICES	09/01/2026	1QFQ-N93V-DTVH	133.23
				Total Department 120 MANAGER-ADMININSTRATION	133.23
Department: 121 INFORMATION TECHNOLOGY					
10-121-529901	FIRE EFAX SOFTWARE	KNO2 LLC	09/08/2026	INV141815	720.00
				Total Department 121 INFORMATION TECHNOLOGY	720.00
Department: 130 FINANCE					
10-130-529900	PRODUCTION SERVICES FOR UTILITY B	AMERICAN PRINTING TECHNOLO	09/07/2026	26-VP08	208.35
10-130-531700	CALCULATOR, RIBBON, PAPER, MOUSE,	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FIN	404.44
10-130-531700	RETURN CREDIT	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-FIN	(179.74)
10-130-531700	PENS, NOTEBOOKS, CARDSTOCK	AMAZON CAPITAL SERVICES	09/01/2026	1K61-T6M3-6XY6FIN	55.07
				Total Department 130 FINANCE	488.12
Department: 140 COMMUNITY DEVELOPMENT					
10-140-529900	COSTAR	COSTAR REALTY INFORMATION	09/02/2026	124737179	525.00
10-140-529900-C00001	OTHER CONTRACTUAL SERVICES Train Car	LEGAT ARCHITECTS INC	08/31/2026	65227	14,000.00
				Total Department 140 COMMUNITY DEVELOPMENT	14,525.00
Department: 150 CENTRAL SERVICES					
10-150-520500	UTILITY SERVICE BILL POSTAGE IN A	AMERICAN PRINTING TECHNOLO	09/07/2026	26-VP06-P	5,000.00
10-150-521000	PHONE SERVICE DATES 8.1.26-8.31.2	GRANITE TELECOMMUNICATIONS	09/01/2026	762099587	38.04
10-150-527000	METER CHARGES 9.5.26-10.4.26	GORDON FLESCH CO. INC	09/05/2026	IN15754573	175.00
				Total Department 150 CENTRAL SERVICES	5,213.04
Department: 160 BUILDINGS & GROUNDS					
10-160-529900	FIRE SPRINKLER 5 YEAR INSPECTION	P A CRIMSON FIRE RISK SERV	07/13/2026	39696	2,060.00
10-160-529900	PD ELEVATOR MAINTENANCE SERVICE F	OTIS ELEVATOR CO	08/17/2026	100402424106	7,212.96
10-160-529900	ROOF LEAK REPAIRS, VILLAGE HALL A	SR PRODUCTS	09/04/2026	PSI015291	7,300.00
10-160-529900	ELEVATOR VILLA PARK VILLAGE HALL	TK ELEVATOR CORPORATION	09/01/2026	3009767701	1,894.20
10-160-531400	CLEANING SOLUTION	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	22.78
10-160-531400	HOOVER VACUUM	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	441.25
10-160-531400	SHARK STAIN STRILKER	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	149.99
10-160-531400	VACCUM BAGS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	16.39
10-160-539900	CIGARETTE SIGNS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	14.69
10-160-539900	CIGARETTE SIGNS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	107.46
				Total Department 160 BUILDINGS & GROUNDS	19,219.72
Department: 170 COMMUTER PARKING LOT					
10-170-529900	WEB PERMITS	TOTAL PARKING SOLUTIONS	09/03/2026	109677	27.00
				Total Department 170 COMMUTER PARKING LOT	27.00
Department: 180 GARAGE					
10-180-531000	PW 9 QUICK RELEASE CHECK VALVE FO	ACME TRUCK BRAKE	08/31/2026	01-554963	11.70
10-180-531000	STOCK BATTERY 65 SERIES FITS MOST	INTERSTATE BATTERIES OF SO	09/08/2026	60006719	148.75
				Total Department 180 GARAGE	160.45

INVOICE DISTRIBUTION REPORT FOR VILLAGE OF VILLA PARK

EXP CHECK RUN DATES 09/14/2026 - 09/14/2026
POSTED AND UNPOSTED
OPEN AND PAID

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 10 CORPORATE FUND					
Department: 207 POLICE					
10-207-520207	FINE POINT GEL PEN-TRAINING	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	13.09
10-207-520207	OIL BASED PAINT MARKERS-TRAINING	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	11.09
10-207-520207	OIL BASED PAINT MARKERS-TRAINING	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	12.79
10-207-520207	OIL BASED PAINT MARKERS-TRAINING	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	16.37
10-207-523007	BUSINESS CARDS-HOLLER	DEPENDABLE PRINTING SERVIC	08/28/2026	1809	96.31
10-207-523007	#10 LOGO ENVELOPES	DEPENDABLE PRINTING SERVIC	09/02/2026	1810	115.92
10-207-529900-OCS009	MUNICIPAL ENFORCEMENT SYSTEM	DACRA ADJUDICATION SYSTEM	08/31/2026	2026-08-015	1,750.00
10-207-529900-OCS027	UNLIMITED CAR WASHES	ZIPS CAR WASH LLC	07/02/2026	1BROMO4L-0027	179.19
10-207-529900-OCS027	UNLIMITED CAR WASH	DELTA SONIC CAR WASH SYSTE	09/01/2026	0041107	15.99
10-207-531700	WHITE OUT	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	14.15
10-207-531700	WIRELESS KEYBOARD-PAGAN	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	60.49
10-207-531700	LAPTOP BAG-CHIEF	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	169.99
10-207-531700	TONER - ADMIN OFFICE	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	485.02
10-207-531700	WRITING PADS-RECORDS	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	9.18
10-207-531700	CHARGING STATION	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	80.99
10-207-531700	SCREEN PROTECTORS	AMAZON CAPITAL SERVICES	08/01/2026	PD-13JV-HRFR-F971	49.99
10-207-539900	ADVIL KLEENEX	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	57.89
10-207-539900	FLASH DRIVES - DETECTIVES	AMAZON CAPITAL SERVICES	09/01/2026	PD-1K61-T6M3-6XY6	518.91
				Total Department 207 POLICE	3,657.36
Department: 211 FIRE					
10-211-531401	SHOWER CLEANER	AMAZON CAPITAL SERVICES	09/01/2026	13JV-HRFR-F971-FD1	19.99
				Total Department 211 FIRE	19.99
Department: 251 PUBLIC WORKS					
10-251-529901	CAR WASH	WASHU LLC	08/31/2026	985	5.00
10-251-540200	STIHL BR800X BACKPACK BLOWER	RUSSO'S POWER EQUIPMENT IN	09/09/2026	SPI21782488	519.99
				Total Department 251 PUBLIC WORKS	524.99
				Total Fund 10 CORPORATE FUND	46,517.35
Fund: 29 TIF 3 FUND - NORTH AVENUE					
Department: 241 TIF CAPTAL & CONTRACTUAL					
29-241-529901	OTHER CONTRACTUAL SERVICES	MALLON AND ASSOCIATES, INC	09/04/2026	9042026	7,052.15
				Total Department 241 TIF CAPTAL & CONTRACTUAL	7,052.15
				Total Fund 29 TIF 3 FUND - NORTH AVENUE	7,052.15
Fund: 32 MFT FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
32-202-521925	0 E WISCONSIN; 7.13.26-8.11.26	CONSTELLATION NEWENERGY IN	08/31/2026	73373322001	10,049.47
32-202-521925	118 S VILLA AVE; 7.13.26-8.11.26	CONSTELLATION NEWENERGY IN	08/31/2026	73328013701	60.57
32-202-521925	1 S CENTRAL LITE RT/25; 7.13.26-8	CONSTELLATION NEWENERGY IN	08/31/2026	73357807401	336.21
				Total Department 202 EQUIPMENT AND SUPPLIES	10,446.25
				Total Fund 32 MFT FUND	10,446.25
Fund: 35 RECREATION FUND					
Department: 201 ADMINISTRATION					
35-201-521001	PHONE SERVICE DATES 8.1.26-8.31.2	GRANITE TELECOMMUNICATIONS	09/01/2026	762099587	8.95
35-201-531701	OFFICE ENVELOPES	MINUTEMAN PRESS	09/02/2026	42982	80.00
				Total Department 201 ADMINISTRATION	88.95

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 35 RECREATION FUND					
Department: 216 PRP-BLDG & GROUNDS					
35-216-529916	VPRC ALARM SYSTEM MONITORING	SMG SECURITY SYSTEMS INC	08/31/2026	251966	759.00
35-216-539916	TOOLS FOR VPRC GYM	LOMBARD ACE HARDWARE (GENE	09/03/2026	267334	9.99
				Total Department 216 PRP-BLDG & GROUNDS	768.99
Department: 235 PROGRAMS					
35-235-528135	CY26 PORTABLE TOILET SERVICES TWI	SBC WASTE SOLUTIONS INC	08/31/2026	979966	120.00
35-235-529935	CONTRACTUAL CULINARY CLASS 9/8/26	FULL CIRCLE CHEESE	09/07/2026	00223	72.00
35-235-529935	CY26 CONTRACTUAL MARTIAL ARTS PRO	EAGLE ACADEMY OF MARTIAL A	09/07/2026	20260907	3,993.50
35-235-529935	CY26 CONTRACTUAL AUGUST 2026 YOUT	CHICAGO ELITE VOLLEYBALL C	08/21/2026	0705	378.00
				Total Department 235 PROGRAMS	4,563.50
				Total Fund 35 RECREATION FUND	5,421.44
Fund: 36 PARKS FUND					
Department: 201 ADMINISTRATION					
36-201-521001	PHONE SERVICE DATES 8.1.26-8.31.2	GRANITE TELECOMMUNICATIONS	09/01/2026	762099587	1.62
36-201-531701	KEY RINGS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	10.88
36-201-531701	STICKY NOTES	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	25.98
				Total Department 201 ADMINISTRATION	38.48
Department: 202 EQUIPMENT AND SUPPLIES					
36-202-529902	STORM DAMAGE LIMB REMOVAL, LUFKIN	DAWSON'S TREE SERVICE	08/07/2026	53347 -	695.00
36-202-529902	NATIVE AREA MAINTENANCE PROGRAM A	V3 CONSTRUCTION GROUP LTD	09/09/2026	000020826041	2,975.00
36-202-529902	FUEL SUPPLEMENT	TK ELEVATOR CORPORATION	07/17/2026	4800073939	100.00
36-202-529902	MAINTENANCE POND SEPT	SOLITUDE LAKE MANAGEMENT L	09/02/2026	PSI301943	325.09
36-202-530402	TREE BAGS	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	129.99
36-202-532502	MOWER OIL AND MOWER HEAD	RUSSO'S POWER EQUIPMENT IN	05/15/2026	SPI21600428	586.57
36-202-539902	LOCK FOR PARY TRAILER REPLACEMENT	AMAZON CAPITAL SERVICES	08/01/2026	13JV-HRFR-F971-PKS	46.91
				Total Department 202 EQUIPMENT AND SUPPLIES	4,858.56
				Total Fund 36 PARKS FUND	4,897.04
Fund: 41 SWIMMING POOL & REC FUND					
Department: 301 POOL&REC-ADMIN					
41-301-521001	PHONE SERVICE DATES 8.1.26-8.31.2	GRANITE TELECOMMUNICATIONS	09/01/2026	762099587	1.52
				Total Department 301 POOL&REC-ADMIN	1.52
Department: 302 POOL					
41-302-531102	CY26 MARINERS TEAM SHIRTS 2026	HOLY COW SPORTS INC	06/24/2026	261036	275.00
41-302-531102	CY26 AQUATIC TEAM WINNER SWEATSHI	HOLY COW SPORTS INC	09/14/2026	261555	416.00
				Total Department 302 POOL	691.00
				Total Fund 41 SWIMMING POOL & REC FUND	692.52
Fund: 65 EQUIPMENT REPLACEMENT FUND					
Department: 202 EQUIPMENT AND SUPPLIES					
65-202-529900	MONTHLY LEASE SEPTEMBER 2026	ENTERPRISE FM TRUST	09/03/2026	426638A-090326	15,877.71
				Total Department 202 EQUIPMENT AND SUPPLIES	15,877.71
				Total Fund 65 EQUIPMENT REPLACEMENT FUND	15,877.71
Fund: 82 WATER SUPPLY FUND					
Department: 201 ADMINISTRATION					

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
Fund: 82 WATER SUPPLY FUND					
Department: 201 ADMINISTRATION					
82-201-521001	PHONE SERVICE DATES 8.1.26-8.31.2	GRANITE TELECOMMUNICATIONS	09/01/2026	762099587	1.10
82-201-529901	PRODUCTION SERVICES FOR UTILITY B	AMERICAN PRINTING TECHNOLO	09/07/2026	26-VP08	208.35
82-201-530301	AWWA MEMBERSHIP 11/1/26-10/31/27	AMERICAN WATER WORKS ASSN	07/20/2026	SO310901	2,668.00
82-201-532101	AUGUST 2026 WATER PUMPAGE (47,715	DUPAGE WATER COMMISSION	08/31/2026	2026 AUGUST PUMPAGE	281,041.35
			Total Department 201 ADMINISTRATION		283,918.80
Department: 202 EQUIPMENT AND SUPPLIES					
82-202-521902	CORNELL PUMP STATION; 7.13.26-8.1	CONSTELLATION NEWENERGY IN	08/31/2026	73327970901	205.88
82-202-529302	LEAD & COPPER WATER SAMPLES	PACE ANALYTICAL SERVICES L	09/08/2026	267226569	78.00
82-202-534402	CONCRETE - REDI MIX	WESTMORE SUPPLY CO	08/31/2026	R123393	655.50
82-202-534402	CONCRETE - REDI MIX	WESTMORE SUPPLY CO	08/31/2026	M57171	893.25
			Total Department 202 EQUIPMENT AND SUPPLIES		1,832.63
			Total Fund 82 WATER SUPPLY FUND		285,751.43
Fund: 83 WASTEWATER FUND					
Department: 201 ADMINISTRATION					
83-201-521001	PHONE SERVICE DATES 8.1.26-8.31.2	GRANITE TELECOMMUNICATIONS	09/01/2026	762099587	1.10
83-201-529901	PRODUCTION SERVICES FOR UTILITY B	AMERICAN PRINTING TECHNOLO	09/07/2026	26-VP08	208.35
			Total Department 201 ADMINISTRATION		209.45
Department: 202 EQUIPMENT AND SUPPLIES					
83-202-521902	WWFTF; 7.13.26-8.11.26	CONSTELLATION NEWENERGY IN	08/31/2026	73357790901	3,334.58
83-202-529302	WWFTF SAMPLES	ETP LABS INC	08/31/2026	26-53473	590.00
83-202-529902	REPLACE CPU AND POWER SUPPLY @ NO	TRI-R SYSTEMS INC	09/09/2026	006848	2,170.00
83-202-534402	CONCRETE - REDI MIX	WESTMORE SUPPLY CO	08/31/2026	R123135	1,634.00
83-202-534402	CONCRETE - REDI MIX	WESTMORE SUPPLY CO	08/31/2026	M57113	1,070.00
			Total Department 202 EQUIPMENT AND SUPPLIES		8,798.58
			Total Fund 83 WASTEWATER FUND		9,008.03

INVOICE DISTRIBUTION REPORT FOR VILLAGE OF VILLA PARK
EXP CHECK RUN DATES 09/14/2026 - 09/14/2026
POSTED AND UNPOSTED
OPEN AND PAID

GL Number	Invoice Line Desc	Vendor Name	Invoice Date	Invoice Number	Amount
--- TOTALS BY FUND ---					
		10	CORPORATE FUND		46,517.35
		29	TIF 3 FUND - NORTH AVENUE		7,052.15
		32	MFT FUND		10,446.25
		35	RECREATION FUND		5,421.44
		36	PARKS FUND		4,897.04
		41	SWIMMING POOL & REC FUND		692.52
		65	EQUIPMENT REPLACEMENT FUND		15,877.71
		82	WATER SUPPLY FUND		285,751.43
		83	WASTEWATER FUND		9,008.03
		Total For All Funds:			385,663.92

9-11-26

Village of Villa Park Board of Trustees

Meeting Minutes – August 10, 2026

Date: August 10, 2026

Time: Meeting called to order at 7:00 PM

Location: Village of Villa Park
20 S. Ardmore Avenue
Village Hall, Boardroom
Villa Park, IL 60181

1. Call to Order & Roll Call

a. The meeting was called to order by President Patrick. Deputy Clerk Karl performed the roll call.

- **Present**: Trustees Cari Alfano, Jorge Cordova, Tina Konstatos, Jack Kozar, Deepa Kumar, Khalid Sabri and Village President Patrick
- **Absent**: Clerk Laukant

b. A quorum was established.

2. Pledge of Allegiance

- Attendees stood for the Pledge of Allegiance.

President Patrick and Attorney Morton distributed a document to the board, staff and guests.

President Patrick explained the document just distributed as follows:
“Tonight I'm releasing a document that I believe every resident of Villa Park deserves the opportunity to review for themselves. Approximately 3 weeks ago during a village board meeting, Trustee Tina Konstatos provided me with a copy of transcripts that she had previously received directly from Trustee Khalid Sabri at his office here in Villa Park. According to the information provided to me, Trustee Sabri printed the transcripts from his computer to a printer in his office and provided them to Trusty Konstatos. The documents are transcripts of a conversation that took place on December 5th, 2025 between Trustee Khalid Sabri and village Finance Director Susie Mika. The Illinois State's Attorney's Office conducted interviews regarding this, including interviews with Director Mik and Trustee Sabri. According to the report, Director MiK was not aware that she was being recorded and had not consented to being recorded. The report further documents investigators interview with Trustee Sabri regarding the transcript and the circumstances surrounding the recording. The document that I'd handed out

tonight isn't simply notes from a meeting. It's a transcript produced from a secret recording of a conversation between an appointed village trustee and a village department head who did not know she was being recorded. When I first reviewed these transcripts, I found portions of the conversation deeply concerning. The transcripts contain extensive discussions involving village employees, department heads, elected officials, the village manager, personnel decisions, village finances, the sharing and withholding of information, and conversations about conducting discussions away from village hall or keeping information confidential. I was originally going to release this document publicly at our last village board meeting, but I didn't because before that meeting, the Illinois State's Attorney's Office asked that I allow investigators additional time to interview the two individuals involved. Finance Director Susie Mika and Trustee Khaled Sabri and I honored that request. Those interviews have now taken place and the state's attorney's office has produced its report. Rather than interpret the state's attorney's report or tell residents what conclusions should be drawn from it, I believe the report should be made available along with these transcripts so the public can review the findings for themselves. I believe residents have every right to consider whether secretly recording a village department head without her knowledge. Producing transcripts of that conversation and the conversations reflected within those transcripts meet the standards of judgment, professionalism, transparency, and trust that we should expect from someone entrusted with public office. While the statements contained within these transcripts are deeply concerning to me, I'm going to tell the residents of Villa Park tonight, I'm not going to tell the residents of Village Park tonight what conclusions they should reach. And that decision belongs to all of you. After reviewing them carefully and considering other events that have unfolded within our village government over the past several months, they caused me to ask additional questions. Many residents already know that I've reportedly sought access to the audio recording of the June 29th executive session, a meeting that occurred while I was away following the passing of my father. During that meeting, four trustees convened a special emergency meeting and entered executive session to discuss matters involving our village manager. Despite multiple requests and despite a resolution adopting this by the village board that I be provided access tonreview that recording, I have still not been permitted to do so. I'm not here tonight telling you that these events are connected. I'm telling you that they've caused me to ask questions. And when legitimate questions arise about how government is operating, I believe the answer should never be less transparency. It should be more. The document I am releasing tonight is not intended to persuade you. It's not intended to inflame emotions. And it's not intended to ask you to adopt my opinions. It's intended to put information in the hands of the people who ultimately own this government, the residents of Villa Park. Public trust isn't built by asking residents simply to accept what their public officials tell them. It's built by allowing people to see the information for themselves. I've always believed that an informed public is the strongest safeguard for of accountable government. Tonight, I believe transparency requires nothing less.

At this time, I'm going to recess so that way the board and the public can review these documents and we will reconvene in 20 minutes. It is 7:14."

Board returned at 7:30 p.m.

Roll Call Vote:

Present: Trustees Jorge Cordova, Tina Konstatos, Jack Kozar, Trustee Kumar and Village President Patrick.
Absent: Trustees Cari Alfano and Khalid Sabri, Clerk Laukant

President Patrick explained “the document that I just shared with the public is a public document in the public domain which can be foia’d if necessary. I'm going to call on this board to see if there are any questions, comments, or concerns regarding this document or anything that might want to be said about it.”

Trustee Cordova began by asking the Village Attorney if anyone has broken any laws or is there anything anyone can get in trouble for. He also asked if he could summarize what is in this document. Attorney Morton responded “the contents of the transcript itself, there's nothing illegal within the transcript. The fact that a recording was made without someone's consent, that violates the state's eavesdropping law.” Trustee Cordova then asked if taping and publishing a conversation is okay. Attorney Morton explained “no, that would also be against the statute, but the states attorney’s office decided not to pursue charges. They Investigated it, determined they did not want to pick up the case, and so that’s why this is now a public document, including their report.” Trustee Cordova also questioned that this recording that is printed out in here, that's okay that it's in the public even though it came from a illegal non two-party consent? So there was a breaking of the two-party consent law, right? Attorney Morton responded that “the state's attorney's office determined that it wasn't something that they would file charges on because they believe there's an exception that would allow it that they don't want to get into an argument over that it from my conversations with the state's attorney's office they do not like this law and most states attorney's offices do not like this law because of how difficult it is to enforce how it's one of the strictest laws in the country and so they are never eager to go after these type of cases. And so they looked through the transcript, which is 15 pages, and they found one comment within that that they thought might justify the recording as an exception, and so they decided not to. In their minds, then it wasn't worth filing charges.”

President Patrick continued that “I think we've had a little less than 20 minutes to look this over and understand the contents of what had happened and why it happened. And I think it's important that people take their time to read this and revisit this.”

Trustee Kumar asked what the sentence was that the states attorney’s office said gave them pause. Attorney Morton explained an exchange where Trustee Sabri is talking about potential financial mismanagement and the state’s attorney’s office said that could be interpreted as him conducting his own personal investigation. They did not feel confident moving forward based on that one question. Trustee Kumar asked if he could site that particular question to the board. Attorney Morton was looking for that information. He also stated that included was a report the Trustee filed with the state’s attorney’s office detailing what he considered were alleged improprieties by the Village which was then turned over to the FBI but without supporting document and that is why they dropped the case.

President Patrick explained “the investigation was brought to the state's attorney's office. The state's attorney's office thought that they might have had a conflict in

investigating potential members of the police department that were allegations made by Trustee Khaled Sabri and the village manager and those allegations then were recommended by the state's attorney's office to the FBI in which the FBI made contact with Trustee Sabri and they had a meeting about this and he was not able to substantiate any evidence to the claims."

Trustee Kumar suggested that this document apparently came from Trustee Konstatos to the state's attorney's office, correct. President Patrick responded that "No. This document came from me. I received the document from Trustee Konstatos. And we could ask Trustee Konstatos how she obtained the document before she gave it to me."

Trusty Konstatos. "Absolutely. Yeah. I obtained the document from Trustee Sabri. So Trustee Sabri gave you this printer. Trustee Sabri gave me the document. He printed it in his office and handed it to me. I did not read the document because of the length of it. I put the document in a folder that I have at my house that had other documents that the clerk had given to me. I put it in an envelope with other documents that the clerk had given to me. That would be Clerk Laukant. When issues involving the clerk had come up recently, I gave said envelope to President Patrick saying the that this is information that you should probably take a look at. These transcripts were in that folder. So when President Patrick received said folder, he called and asked me about the transcripts in there and I said, "I don't what transcripts?" I hadn't remembered that there was transcripts in there. And he said, "There was transcripts in there between a Trustee and a staff member. How did you obtain those?" And then he said, "Trustee Sabri." And I said, "Those are the transcripts that Trustee Sabri gave me." He asked me, "Did you read them and do you know what they consist of?" And I said, "No, I do not. I don't even know what all of the documents that the clerk gave me consist of." I threw them to the side. So that's how they became in the hands of President Patrick."

Trustee Kumar asked her again if she read them at some point, but didn't read them in the beginning. Trustee Konstatos responded "I didn't read them at all at any point until I just got them with everybody else right now." Trustee Kumar asked to confirm that she just went and handed all the documents and asked again why did she hand them to President Patrick. Trustee Konstatos responded "I clearly just said and I'll say it again. I had an envelope with some documents that the clerk gave me okay. When I received these documents, the transcripts, I put them in the same envelope, filed away with all of the paperwork that I have from the village, ordinances, whatever. When issues started with the clerk, I remembered the envelope of information he gave me. I wanted to give that to President Patrick. It has documentation in there that the clerk gave me that is I guess I would have to ask counsel if I am able to discuss that right now."

President Patrick explained "one of the reasons why I got that documentation was because of the fact that this board held and convened a special meeting, emergency meeting that went into executive session to discuss the village manager's employment status. Because I was not able to get those from the clerk after repeated attempts, I believe Trustee Konstatos gave me those works because at that time we were talking about what are the duties of the village clerk and she had this packet of papers that he gave her that she thought might be of importance to the discussion about the clerk." Trustee Konstatos added "So in that packet consisted of the transcripts as well. Okay. I just gave the packet to him. That was it. I didn't even realize the transcripts were in there till I received a

phone call asking about the transcripts. And then that's when I explained how I got said transcripts." Trustee Kumar asked "so you got such transcript in a packet from the clerk right?" Trustee Konstatos corrected her with "no, I put the transcripts that I got in the packet that I got from the clerk. They were both the clerk's stuff he gave me and the stuff Trustee Sabri gave me were put in the same envelope and I put it away. I just did it and put it away. I never looked at it. When the situation with the clerk started to come up, I thought the clerk I remembered the clerk documents and thought it might be important in the job of the clerk. So, I gave the envelope to President Patrick."

President Patrick stated "Trustee Kumar, it sounds like you have a problem with another trustee giving me transcripts from a secretly recorded meeting that was done illegally by another trustee and us." Trustee Kumar responded "No, I don't have any problem with any transcripts anywhere. I just think that if you had a transcript of this nature, it should have been given to all trustees at the point you got it, not at the point that you feel convenient to get it to all trustees. I feel this is a very convenient circumstance here, President Patrick, that this is when this is happening after many trustees have agreed about certain issues coming to us at this very convenient point is my confusion. This transcript could have been given to us on the day you received it from Trustee Konstatos in the name of transparency within executive session, but it never was."

President Patrick replied "I I agree with you and there's nothing more than I wanted for the public and the board to have this document as soon as possible. In my opening speech, I even said that I was going to make it public at our last board meeting. There's nothing convenient about secretly recording conversations as a public official and using that to your advantage to get what you want. The reasons why I could not give that out to the public or let that know and I had to carry that burden for so long is because of the eavesdrop act in particular is that if I were to distribute that information knowing that it was illegally obtained then I become part of that crime. I did not know that it was legally or illegally obtained until the investigation by the attorney, the Illinois States Attorney's Office came back and told me that it was illegally obtained and that it can be a public document. I could not release that any sooner because of that investigation that was going on, the investigation that was going on by the Illinois Attorney States office and the FBI. Trustee Kumar questioned why it was not released to the Board, not the public. This should have been discussed when we take about employee matters. She thinks it's a very convenient way to release it at this point. President Patrick responded "I wish it was that simple. I wish it was that simple. The fact of the matter is I don't think you understand the law quite as well as our attorneys do that have been advising me through this entire process. And what I'm saying with that is what I just explained is that I could not release it to anybody, including the public or board members, during an official investigation by the Illinois State Attorney's Office and the FBI. I could not do that. That was the burden that I held and I had to carry on until tonight. So, nothing was convenient about this. Nothing is convenient about knowing that you've had a board member that you've trusted that you appointed to this open position. Go to the extent of some of the things in this document and I think it would do you well to look through some of this because you're specifically mentioned in parts of it as well. If you want, I've got three pages of names that were referenced in here. Not just board members, but also employees, current employees. Things that are said that should never have been said. Things that were being conspired on that should have never been conspired on. Trusty Kumar, you're specifically mentioned on page 1, 7, and 8 of

this document. If you'd like, I can reiterate some of these things about what were said."

Trustee Kumar said to go ahead and tell the public. President Patrick continued, "222 speaker 2. For a long time yet last night we went through exactly step by step. This is what we need to tell me. This is what we need to discuss. Tell me what you need from me. How are you going to handle this? Okay, perfect. We do things way we're not we do the way the things we do. We do the things the way we do and we're not like Deepa or somebody else like Jorge that we're not looking at the minutes at the last minute and say okay well Mike neighbor told me I'm going to read this email. I shut my ears basically when she even talks. I totally ignore her, by the way, because I don't get anything out of that. It's just nothing but a long talk. There's no substance behind it. That's one time that you're referenced. Like I said, there are more, but I don't need to go through this verbatim. I think you can do that as well as the public. And I think I've made it clear with the names that are indexed here and the topics that are in here. The topics also include Trustee Sabri giving Director Mika orders, Trustee Sabri conspiring with other trustees, Trustee Sabri defaming employees and officials, Director Mika defaming employees, Trustee Sabri conspiring with Director Mika, Trustee Sabri's conspiracy theories. A whole bunch of lack of transparency. Director Mika, concealing actions, Trustee Sabri, prophetic words. This document is pretty simple for our public to understand. The topics are there, the discussions are there, the names are there to be referenced, and each page number is listed there. I do not think it is okay for a public official to secretly record another individual without them knowing about it, especially with the contents of what's being discussed in here."

Trustee Konstatos stated "I know that Trusty Kumar referenced that this could have been something that was discussed in executive session under staff, but for the last two or three executive sessions, we haven't been able to get through them because people have left because they haven't wanted to finish the discussion that was going on. So even if we even if we were allowed to or President Patrick was allowed to bring this up during the investigation that was going on, it wouldn't have been able to have been brought up anyways because people left and we didn't even we couldn't even end the executive session because you guys got up and left in the middle of it. So at one point you're saying one thing, but on the other hand you're saying another. You know, there was I think I still have the floor. Thank you. There was an investigation going on and if at that point it couldn't have been said, it couldn't have been said. But I want to make it perfectly crystal clear. This document was not, and I will say it again, was not given to President Patrick in December when it was recorded. That is false information. Please do not spread said rumor. That is not true. He has not had this document that long. Yes, I'm done."

Trustee Cordova made a motion to call for the orders of the day and move on. President Patrick explained "Unfortunately, this is a discussion that is not on the agenda. So, call to question is not a…" Trustee Cordova corrected: It's not a call to question. It's called order of the day. President Patrick stated "Okay. Well, I believe that we still have other board members that have things that they'd like to say or discuss." Attorney Morton explained "you can have that motion, however, it requires a 2/3 vote to pass." Trustee Cordova responded that he is making a motion called saying I call for the orders of the day so that we can move on with the agenda and get our stuff done that we are to do here. Is there a second?

Trustee Konstatos seconded. Okay. Is there any discussion? No. Is there any discussion?

President Patrick continued, “I think this gives us an opportunity to talk now. I think we should talk now. I think the public deserves to talk about this now and understand what's happening here.”
Vote for Trustee Cordova’s motion to call for the orders of the day:

Roll Call Vote:
Ayes: Trustees Cordova, Konstatos, Kumar
Nays: Trustee Kozar and President Patrick

Trustee Kozar said he would like to talk to Trustee Sabri. He said he makes a 2-page allegation to the FBI without any backup. He wants to ask him but he left and he does that in executive session also. Trustee Kozar continues and said he is not sure of his angle and is he trying to sabotage Villa Park. He would like to see all his transcripts. Where did this take place? President Patrick answered, “This meeting took place at his office in Villa Park on December 5th, 2025.” He also asked if anyone is aware of any other secret meetings in his office.

Trustee Kumar said our vote was to not discuss this anymore. Attorney Morton says you need 67%. Three of five is 60%.

Director Mika stated the meeting was in Village Hall. President Patrick explained that the transcript clearly identifies his office with Director Mika and were also identified by his business partner in that office - Page 14 (last page)

President Patrick concluded “Okay. We want to end a discussion right now on this so that way we could move forward. This is a document that I ask every resident to ask whether or not they're okay with this.

3. Amendments to the Agenda

None

4. Public Comments on Agenda Items

JP Hochbaum:

Item 15b – Spoke regarding the permit denial for “Off The Beaten Path” and appeal. He can adhere to all items that were addressed in the denial. Asked for an approval of permit.

Tony Grollo:

Mentioned things done right by the Village – hiring of two police officers added to the budget, Villa Fest which is in 2 weeks, the Union moving forward and joining the Union Pacific Merger. Things the Village missed on – Joining the Union Pacific Alliance 6 months after our neighbors – that is where things like underpasses are negotiated, Mortadeli liquor license taking 6 months and 2 denials and then passed, Coffee with the Board being cancelled in July and August and town halls that have not happened.
Item 15b – This is what Villa Park needs. Move on this tonight.

Christine Murphy:
Item 12a – Due to the Village's financial situation, I support asking for a different amount and approve Phase I of the architect fees.
Item 15b – This was a slap in the face to a resident – offer a compromise to approve.
Item 15a – Changing the frequency of Coffee with the Board is a disservice to our residents and signal that the board is not willing and available to listen to the residents.
The circus that just occurred in here is an embarrassment that should not have happened in front of all these people and should have been brought into executive session.

Chery Tucker:
Item 15a - I think this board might have a misunderstanding why Coffee with the Board was started and the importance of it being every month instead of quarterly. It is for the residents to discuss informally the problems they are having with the Village. You made a promise to a voice.

5. Public Comments on Non-Agenda Items

Amethyst St. Louis:
Spoke about FOIA's that are filed but no documents are being released or are withheld. It is not a right response that they are not being erleased because the Village changed software. Those should be held to protect my family from being stalked by a neighbor.

Patrice Gallagher:
I want to remind you all that everyone is human and makes errors. I trust we will get through all the issues. Trustee Kumar's comments were subjective and accusatory to Trustee Konstatos and Trustee Konstatos said she didn't know what was in the transcript. Also the comment that she conveniently did not release it to other Trustees was also accusatory and subjective.

6. Proclamations
None

7. Presentation
None

8. Appointment to Commissiona.

a. Appointment of Cassie Vanko as Commissioner of the Plan Commission for a term upon being sworn in until 5/31/2029.

Motion to approve appointment made by Trustee Konstatos and seconded by Trustee Kozar.

Roll Call Vote:
Ayes: Trustees Kumar, Kozar, Konstatos and Cordova
Nays: None

9. Consent Agenda

The Consent Agenda included the following items:

a. Billing listings for the weeks of August 3, 2026, in the amount of $1,148,937.15 and August 10, 2026, in the amount of $389,266.03.

b. An Ordinance of the Village of Villa Park, DuPage County, Illinois, Approving and Ratifying the Purchase of Bulk Rock Salt from SaltXchange and the Cancellation of the Purchase of Bulk Rock Salt through the State of Illinois.

c. An Ordinance of the Village of Villa Park Granting a Variation from Section 6.10.3 of the Zoning Ordinance to Install a Deck at the Property Located at 9 E. Park Boulevard, Villa Park, Illinois.

d. An Ordinance of the Village of Villa Park Granting a Variation from Section 8.2 and Section 8.6.2 of the Zoning Ordinance to Install a Pole Sign at the Property Located at 187 E. North Avenue, Villa Park, Illinois.

e. An Ordinance of the Village of Villa Park Granting a Variation from Section 6.10.2, Table 6-2 of the Zoning Ordinance for a Gazebo on the Property Located at 1144 N. Yale Avenue, Villa Park, Illinois.

Motion to approve the consent agenda made by Trustee Konstatos and seconded by Trustee Kozar

Roll Call Vote:
Ayes: Trustees Konstatos, Kozar, Kumar and Cordova
Nays: None

10. Ordinance for First Reading

None

11. Ordinance for Second Reading

a. An Ordinance of the Village of Villa Park, DuPage County, Illinois, Amending Chapter 26 of the Villa Park Municipal Code Regarding Administrative Adjudication
This ordinance would allow Community and Economic Development (CED) to schedule code enforcement adjudication hearings once per month instead of every two weeks by adopting a section of the Illinois Municipal Code that was previously only available to home rule municipalities. This is a second reading.

Motion to approve ordinance made by Trustee Konstatos and seconded by Trustee Kozar.

No Discussion

Roll Call Vote:
Ayes: Trustees Kozar, Kumar, Konstatos and Cordova
Nays: None

Ordinance Approved

b. An Ordinance of the Village of Villa Park Amending Section 2-402 of the Villa Park Municipal Code Regarding Special Meetings.
This ordinance would amend the Villa Park Municipal Code to provide that a request to hold a special meeting of the Board of Trustees must be submitted at least 5 business days prior to the start of the meeting, except in the event of a bona fide emergency. This is a second reading.

Motion to approve ordinance made by Trustee Konstatos and seconded by Trustee Kozar.

No Discussion

Roll Call Vote:
Ayes: Trustees Cordova, Konstatos, Kozar and Kumar
Nays: None

Ordinance Approved

c. An Ordinance of the Village of Villa Park, DuPage County, Illinois Amending Section 25-104 of the Villa Park Municipal Code Regarding Water Rates and Charges
Public Works staff presented the possibility of raising water rates during the June Committee of the Whole meeting. As part of the discussion, it was to split the current rate into a pass though charge for the supply of water and an operations charge for the Village to maintain the water distribution system in the community. This is a second reading.

Motion to approve ordinance made by Trustee Konstatos and seconded by Trustee Kozar.

Trustee Cordova asked if the 2% increases are reflected in the 5-year forecast. Assistant Village Manager Guerra responded that yes, they are projected in the 5-year forecast. Trustee Cordova asked if the capital or operating assumption supports a 2% increase. Assistant Village Manager Guerra explained we do have a 5-year master plan that incorporates the debt services, capital plans, and those sort of things. That was forecasted into that 5-year plan. That's where it matches based on operational needs. We match the three years only instead of the five years only because our AFSCME contract is a three-year contract. That ends in three years. So, we do not set labor cost relations or set labor costs in correlation. That is to try to keep a positive balance of expenses over operations in those three years.

Roll Call Vote:
Ayes: Trustees Kumar, Kozar, Konstatos and Cordova
Nays: None

Ordinance Approved

12. Ordinances

a. Ordinance Authorizing a Professional Services Agreement with 845 Design Group for the Fire Station 82 Evaluation, Programming, and Design Project
Staff recommends adoption of the attached Ordinance authorizing the Village Manager to execute a Professional Services Agreement with 845 Design Group in the amount of $499,860 to provide architectural design and related professional services, including coordination of the necessary engineering consultants, for the evaluation, programming, and design of the permanent Fire Station 82 through the renovation and repurposing of a portion of the former Iowa Community Center (ICC).

Motion to approve ordinance made by Trustee Konstatos and seconded by Trustee Kozar

Trustee Cordova stated he is in favor since it is budgeted. The second piece is tentatively budgeted. Trustee Konstatos is super excited that it is budgeted. She is confident they will come back with a good plan. Trustee Kumar is happy that it is budgeted but asked for consistent updates for the Board.

Roll Call Vote:
Ayes: Trustees Cordova, Konstatos, Kozar, Kumar and President Patrick
Nays: None

Ordinance Passed

13. Resolutions
None

14. Unfinished Business
None

14. New Business
a. Discussion on Quarterly Coffee with the Board meetings versus monthly.

President Patrick expressed that we, as a Board, have been having trouble with a lack of participation. I proposed a pilot program for the Board members and the Board chose not to move forward with that program. I agree with the great opportunity for residents to talk to us about issues. We have been experiencing attendance issues. I would like to openly discuss this with the Board.

Trustee Konstatos says she loves this program but sometimes it is hard to commit all the time. She would like it to be a monthly event.

President Patrick agrees it was good choice to start this program. He would be open to continuing the pilot program. Trustee Kumar suggested the Trustees sign up for when they are available. President Patrick stated he wants to make sure we have constant and fair attendance. He likes the idea of moving Coffee with the Board to different locations plus if there is a discussion topic that is important. Trustee Konstatos agrees that we tried to get everyone to sign up, but not everyone did. She is willing to try again.

It was suggested that maybe the Village Manager with a staff person could fill in. President

Patrick said they should discuss the cost of this also. We have a police officer and a staff member so we must stick to our commitment.

Trustee Kozar stated he doesn't find it as a good use of time. Many broke out in arguments. The usual suspects are there. I was followed home and cornered in my own driveway. We even had someone who wasn't a resident of Villa Park. You can email me or call me anytime. No problem.

President Patrick asked the Board what direction they would like to go in. Trustee Cordova said that after the last one he was at, he wouldn't do them anymore. The last one someone from the Board was in the audience. There was a lot of heckling. People are yelling at each other. I will try to get to as many as I can. He also suggested that they continue and try it again. President Patrick stated he would send out an email for sign up for the rest of the year and ask for a response by Friday. We will cancel the ones we don't have sign ups for.

Trustee Konstatos mentioned we need some positive feedback as well as issues at the Coffee with the Board. Come with some good ideas for the village. We need give and take from the Board and the Trustees. Trustee Kumar said that negative things are okay. Our last meeting was very informative.

b. Appeal of Permit Denial - Off the Beaten Path Festival

Manager Rivas went through the timeline regarding this event. We will try to work together on this. Weather could be an issue. He also questioned the approval for the parking at the Metra Lot There are a lot of unknowns.

President Patrick agrees this is what Villa Park needs. This will be a great festival. I have to refer to the staff especially regarding safety. I would like discussion to see what we can do to help.

Trustee Kosntatos asked for information on safety issues from Chief Kubish and Chief Stapleton.

Trustee Kumar stated that staff may be over estimating their needs for this. We need to clarify that. It looks like it could just be 500-750 instead of 2500. If it is a flowing crowd, I think the parking will be less than what has been discussed.

President Patrick explained that coming from a military and law enforcement background, it has him looking at worse case scenarios. Your original plan on the Prairie Path has lots of egress routes. Rotary Park doesn't have egress routes. Plus how are the first responders getting in there when everyone is trying to get out. I want to avoid any hazards. Also discussion about rave tents.

Attorney Morton stated that Manager Rivas covered the process and Mr. Hochbaum clarified the comments. Also, there was a lack of completeness which Manager Rivas mentioned that also. Just give us a complete application and plan for a majority vote. JP stated he felt everything was on the application with the understanding that it would be adjusted based on meetings. He was never given information to make it a completed application. He received many verbal instructions. There was no response to his evacuation plan. He had the permit in for 3-4 months.

Attorney Morton explained that there are a number of items listed as TBD so it is not complete. Staff has not received the missing information. JP stated he was told there would be a department meeting where those TBD's would be discussed. Thought the July meeting was about that.

Trustee Konstatos asked what is still incomplete. Manager Rivas stated staff will discuss that later. He also asked if this was a family event, but there will be a rave tent. He also talked about security concerns. Discussion also included insurance requirements, risks about the rave tent, event packet shows what is needed, etc.

Trustee Kumar asked about the time between April and July – why was not a message sent to Mr. Hochbaum. He was waiting to hear from a Villa Park staff person regarding what he needed to provide and was led to guess a lot.

Chief Stapleton discussed their concerns and why the Village has taken a stand on the life safety issues. They will need a detailed pan.

Ray Martinez explained what they are considering a rave tent. For adults only! 2500 tickets to sell for adults and children. There will be an adult and child area. This would be throughout the whole day. We applied in January and we didn't get to speak to you until July. The safety/medical issues should have been discussed.

Manager Rivas stated the original application was for 10,000 people at a different site. The second submission was submitted April 2nd.

Kubish spoke. He was not at the initial meeting. He discussed the situation of being in a locked in area. Also the discrepancy of the amount of people attending. There is no comparison with the concerts. If there are issues, there will be a cost to the Village of approximately $20,000 a day out of the police budget for officers and supervisors. There needs to be a lot of adjustments made. Security has to be certified.

JP said it should have been denied right away, not at that last minute. Lombard denied me up front due to the number of people. President Patrick said Villa Park has not seen things like this. There is an opportunity for us to grow and improve. Our code doesn't reflect things that should be considered. Please stay on the course of this event for the future.

Trustee Cordova stated issues on both sides. I think our permit is not cool for this type of event. There are a lot of issues on the submittal also. We weren't ready and you weren't ready. We didn't do our due diligence either. He asked about the possibility to reverse the denial if things are changed, i.e. number of people, etc. Does anyone have a number for Villa Fest attendance. President Patrick said Villa Fest numbers have declined over the years. We are making changes since it was Summerfest. Manager Rivas said at our fest we have age appropriate attractions.

Trustee Kumar said she believes the feedback could have gotten back to the applicant much faster than it was. We needed to do our research at that time, not at the end. The information we got was not complete and the information he got was not complete. This was mismanagement.

Attorney Morton added to Trustee Kumar's comments that a big part of the problem here is the way the code is written. We are taking steps to present to the Board to make that process better in the future. Trustee Kumar asked if you can clarify the specifics better in that special event permit There will be different scales that the code should separate.

Trustee Konstatos said you can't compare this to Villa Fest since it is 100% our liability. Also, safety is #1 for this Village. I think we need to listen to Police and Fire, just as I listen to our attorney for legal matters. I 100% support this idea but I want it to be successful.

President Patrick asked to have regular communication with JP for this type of event, i.e. monthly meetings. I hope we can start those conversations earlier. I am asking this Board to consider directing staff to look at our ordinance and codes for this type of event.

Trustee Cordova made a motion to approve this with certain conditions that may be certified by a specific date including acceptable security plans, parking plans, emergency plans, etc. Trustee Kumar seconded his motion.

President Patrick asked Police and Fire if there is enough time to get everything you need for this to be a successful event or are we out of time. Chief Stapleton said that is a tough question to answer and I need time to evaluate it all. If it is pushed back to be smaller it might be doable.

JP said he might able to try to do that, go down the list if they can reduce the size or change the date. President Patrick asked if there will be enough time for staff. Rivas said we could try but not promising anything. Staff will need clarification of what you are proposing to change. We can send you a list of action items.

Ray Martinez asked if they move this to May of next year, will the codes be ready for us to do this or should they look for another location. Can we even host something like this at all in Villa Park? President Patrick thinks the village can fix that code by the end of the year. We don't want you to go to another municipality. Life safety is our main concern. Chief Kubish suggested project coordinators for the Village and the group holding the event. President Patrick suggested giving the applicant until Friday to provide staff what they need without question marks.

Ray Martinez said he will definitely have a look for a new location and put if off until Spring.

Trustee Kumar wants to stay on top of this whole thing. President Patrick said maybe you could help us with some insight to help us change the codes.

Trustee Kozar asked how this benefits Villa Park. It is an enormous drain on Village resources. Tickets are how much? You will make approximately $75,000. This is a business. There is no business plan. You are going to raise $75,000 with no experience for an outside event. You need to bring in a plan – it is not our staff's responsibility to make a plan for you. The Village is getting nothing out of this. Attorney Morton explained that a business plan is not required for this. The Village does have a schedule of fees for compensating the Village for any Village resources used, not to make money off of it. It would note be appropriate for the Village to make money off a private event. JP stated that they are paying for the officers (per the permit). They didn't want the police to do private security but to come and enjoy the event. We have our own staff to do clean-up the next day and we were planning to donate portions of our profits to cleaning up the green space by planting native plants in Rotary Park.

Truste Cordova requested to remove his motion. Trustee Kumar seconded the removal.

Chief Kubish explained that police offers are required on site in addition to security officers.

Trustee Konstatos asked that when the Board looks at the code and the application, they

need to put something in there for reimbursement for using the police officers.

15. New Business

Trustee Konstatos discussed the notification system, i.e. Code Red. I don't think we have replaced that system. Are we looking into replacing it. Assistant Village Manager Guerra said we do still have it and it has been replaced and updated to a different version when it went offline and it came back. We are retraining staff on it. We are not sure if all the contacts remained and would recommend people resign up. We looked into other systems but Code Red was most cost effective. Trustee Konstatos asked if we can direct Riley to post something for the residents on where to resign up on that. Manager Rivas agreed.

Trustee Kumar asked for a stipend/budget for the Green Commission of $750 this year prorated. President Patrick said we can put it on our next agenda.

Trustee Kumar expressed concern about brush not being picked up. She explained to the residents that if you tie it in 3' long pieces, LRS will pick it up. President Patrick stated he has seen the clean-up being done. They are getting to it. Director Salerno stated we have crews out and also explained about the wind speeds and pick up for private trees. We use O'Hare official wind speed. We are picking up parkway trees but not private debris. We have multiple crews out there. Trustee Kumar asked Manager Rivas to put out a message to be sent out about the private debris pickup.

16. Village Commission Reports

None

17. Village Clerk's Report

The Growth Commission has put together refrigerator magnets with important phone numbers on it. These are available the Public Works, Village Hall and the Recreation Center.

18. Village Trustees' Report

Trustee Kumar:
Happy the Fire Station is going up.
Concerned about comments being made and using names during the Trustee commentaries in the last Trustee comments.
Happy how the Grown Commission meeting went.

Trustee Konstatos:
Nothing to Report

Trustee Cordova:
Nothing to Report

Trustee Kozar:
Nothing to Report

19. Village President's Report

Car 321, w/here are you? Stay tuned for more information.

20. Village Manager's Report

Nothing to Report

21. Executive Session

a. Pursuant to 5 ILCS 120/2(c)(1), the appointment, employment, compensation, discipline, performance, or dismissal of specific employees of the public body or legal counsel for the public body
b. Pursuant to 5 ILCS 120/2(c)(5), the purchase or lease of real property for the use of the public body, including meetings held for the purpose of discussing whether a particular parcel should be acquired.
c. Pursuant to 5 ILCS 120/2(c)(11), Litigation, when an action against, affecting or on behalf of the public body has been filed and is pending before a court or administrative tribunal, or when the public body finds that an action is probable or imminent.

Motion to go to Executive Session made by Trustee Konstatos and seconded by Trustee Kozar.

No Discussion

Roll Call Vote:
Ayes: Trustees Cordova, Konstatos, Kozar and Kumar
Nays: None

Adjourn to Executive Session at 10:45 p.m.

22. Adjournment

Meeting will be adjourned at the conclusion of Executive Session.

Respectfully Submitted,

Rolf Laukant
Village Clerk

Village of Villa Park Board of Trustees

Meeting Minutes – August 24, 2026

Date: August 24, 2026

Time: Meeting called to order at 7:00 PM

Location: Village of Villa Park
20 S. Ardmore Avenue
Village Hall, Boardroom
Villa Park, IL 60181

1. Call to Order & Roll Call

a. The meeting was called to order by President Patrick. Clerk Laukant performed the roll call.

- **Present**: Trustees Jorge Cordova, Tina Konstatos, Jack Kozar, Deepa Kumar, Khalid Sabri, Cari Alfano and Village President Patrick

b. A quorum was established.

2. Pledge of Allegiance

- Attendees stood for the Pledge of Allegiance.

3. Amendments to the Agenda

Trustee Kumar stated she would like to amend the agenda to add the following four items under new business for formal board discussion and action: Ratification of the independent investigation scope. A motion to formally ratify the administrative boundaries and the scope of an active personnel review. Emergency personnel protection and a status quo directive. A directive to freeze the employees the employment status, benefits and core job duties of the finance director for the duration of the investigation. Digital evidence and forensic data preservation order. A mandatory order directing all elected officials and staff to preserve all digital data, phone logs, AI application metadata related to the recently distributed transcripts for review by an independent investigator and a resolution demanding code compliance with chapter 2 municipal stationary restrictions. A formal resolution calling out the unauthorized use of the village letter head on August 10th, 2026 and demanding strict adherence to existing ordinances within chapter 2 of the village municipal code. President Patrick responded that we don't need to vote on that. We'll just put it under new business. I'm going to expect you to lead that conversation, though. It was a mouthful.

Trustee Konstatos said she would like to add some stuff under unfinished business: The parental leave that we discussed but never got back to, the 5-year budget plan to be

revisited and the other one I'll hold off on because I already talked to Director Nolan about. President Patrick responded that just like the other one was that we don't need to vote on that. We'll just bring it up and you could lead that discussion when we get to unfinished business.

President Patrick added: so at our last board meeting, I did have a couple of suggestions from current board members that I adhere more strictly to Robert's Rule of Order. And I think that is a fair ask. So I will give it the old college try and I'll try my best to stick to it. So that way we could try to maintain a little bit more professionalism up here, I guess.

4. Public Comments on Agenda Items

None

5. Public Comments on Non-Agenda Items

David Holston:
Spoke about Christian Church of Villa Park – thanked the Village Board for all the good work they've been doing to help them with their transition to St. Charles Road. Also spoke about all that they do for the community as well as the Love Your Neighbor program. Also asked for more volunteers for Love Your Neighbor Day.

Dee Longfellow:
Spoke about the success of Villa Fest and all the hard work that went into it. Also commended Manager Rivas for his apology and his support. Also expressed her support of Manager Rivas and her concerns of trying to hire another Village Manager.

Cheryl Tucker:
Asked the Board to be accountable for their actions and respect their fellow board members and residents. Also discussed the time and money spent on a 5-year plan and that the board is telling staff to cut their budgets while creating more expenses. Explained how the Village Manager runs the Village and the Village Board is only an advisory committee, not the other way around. Why doesn't the Village President and Board allow him to do his job instead of micromanaging and overstepping the Boards authority. Also spoke about the monthly budget sheets and put the people of Villa Park first. If the board really knows their residents, they would stop telling them to email them and actually make time to talk to them at events, coffee with the board or returning their phone calls in proper time frame. I would also love to tell the village Villa Fest subcommittee how great of a job they did.

Patrice Gallagher:
I just want to say that the last village meeting was a little bit difficult and I feel a positive energy in the room and I trust that we can move forward together. We have some difficult issues, but that we can think about our commonalities and collaborate respectfully and get through this so that we can keep making Villa Park the wonderful place it is.

President Patrick added the following comment:
Now, I can't sit here and tell you how easy it is to manage a municipality, but I don't think that is an easy undertaking. And when you do look at the issues that some of the village has had as well, I think you also need to pay attention to some of our successes. We got the Union going up downtown Villa Avenue. Car 321 is going to be here next spring. More information about that coming up. We've got a rec center that has a daycare that has more kids than it's ever had. Programs, all sorts of things. All sorts of new businesses coming to town and

more businesses interested in Villa Park as well. So, while we have had our challenges, I will also say I have to not take any of the credit except for the gentleman to my left here for managing that through the ups and downs.

6. Proclamations

None

7. Presentation

None

8. Appointment to Commissions

a. Appointment of June Blom as Chairperson of the Senior Concerns Commission

Motion to approve appointment made by Trustee Konstatos and seconded by Trustee Alfano.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar, and Sabri
Nays: None

b. Appointment of Michael Storino as Chairperson of the GREEN Commission

Motion to approve appointment made by Trustee Alfano and seconded by Trustee Kumar.

Trustee Kumar said she is very happy and is happy with the success they are having. She asked President Patrick how many people can be on the commission. He responded with 5.

President Patrick explained that the Green Commission is one of our youngest commissions out there. It got a late start compared to the other commissions as well. Mike Storino has been on this commission since the beginning. He's been holding down the fort and through the ups and downs he's done a tremendous job of coming to these meetings, leading and being a good mentor for the newer commission members as well. And they've already, I believe, have on our agenda tonight one of their first recommendations from the green commission related to fishing line recycling at all of our fishing parks. So again, Mike Storino has been doing a great job and he's finally stepping up into the chair.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar, and Sabri
Nays: None

9. Consent Agenda

The Consent Agenda included the following items:

a. Approval of the bill listing for the week of August 17, 2026 in the amount of $80,879.60 and the bill listing for the week of August 24, 2026 in the amount of $475,934.41.

b. Approval of Minutes from Village Board of Trustees Meeting held on July 27, 2026.

c. Resolution of the Village of Villa Park, DuPage County, Illinois, Authorizing Halloween Trick-or-Treat Hours for 2026

Motion to approve the consent agenda made by Trustee Konstatos and seconded by Trustee Kozar.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar and Sabri
Nays: None

10. Staff Reports

None

11. Monthly Reports

a. Finance Report July 2026
b. FOIA Reports July 2026
c. Gaming Reports July 2026
d. Parks and Recreation Monthly Report July 2026
e. Police Reports July 2026
f. Capital Project Update (Parks/PW) June/partial July 2026
g. Monthly Report CED - July 2026

Trustee Cordova commented: So, for the capital project update, I have a question with the Washington sewer separation not receiving the IEPA funding and the Westmore, Wisconsin funding still unsecured, what changes do we now anticipate with the 5-year capital plan? And then the second piece of that is are there any other projects that will need to be delayed, broken into phases, or funded from another source? Assistant Village Manager Guerra responded that the Washington sewer separation yes we're looking at alternates. That's pretty large of a project around 15 million so that one is still going to take probably some time. We're still planning on trying to submit that through the Wisconsin Westmore project. I actually been in talks with Director Mika since we were planning debt service with that with IEPA. I think during this budget cycle we're looking at maybe proposing to the board issuing special revenue bonds to issue that debt to cover that cost because we're doing debt in one way. Might as well do it in a different way. Maybe there'll be probably a slight increase to the interest rate compared to the low interest loans. But at the rate of the amount of projects that are being requested through the IEPA both on the water and wastewater side, it's phenomenally high. It's very hard to get funding through there, so we're looking at that one so that project can still proceed next year to get completed pending board's approval to issue that debt service. Then another one that we just found out meeting last week is on the water side. We have Bierman and Myrtle which is a water main replacement project that we're kind of planning in the future probably towards the beginning of 28. The water fund is very competitive and scoring numbers have skyrocketed on that. So the likelihood of EPA fun loan funding on that one's pretty low. So it's going to be some modifications as we go into it to look at the five-year pro five-year financial plan identify what our reserves are in different aspects, because we do have fund 64 which is dedicated for some of that and come up with some hopefully creative ways to finance some of these projects for the village. But I guess the the key takeaway is we're going to be presenting in the budget a possibility of issuing debts with special revenue funds using wastewater funds and just bonding that money instead of a low interest loan from the EPA for the Wisconsin and Westmore project for next year.

12. Ordinance for First Reading

a. An Ordinance of the Village of Villa Park Amending Section 14-115 of the Villa Park Municipal Code Regarding Electric Mobility Devices.
This Ordinance replaces the existing "Low-Speed Electric Scooters" provisions in the Village Code with a comprehensive "Electric Mobility Devices" section covering electric scooters, low-speed electric bicycles, low-speed gas bicycles, and motor-driven cycles. This is a first reading.

No Discussion

b. An Ordinance of the Village of Villa Park, DuPage County, Illinois, Amending Chapter 3 ("Alcoholic Liquor") of the Village Code to Revise Provisions Relating to the Local Liquor Control Commission, Alcoholic Liquor Licensing and Regulation
The Local Liquor Control Commission recommends amending Chapter 3 of the Village Code to revise the appointment, training, and leadership structure of the Commission, strengthen background investigation and fingerprinting requirements, establish new eligibility restrictions and penalties for false statements, restructure license fee provisions, and require a new license application upon a change in use of a licensed premises. This is a first reading.

Trustee Konstatos asked that in Section 3-305 where it says we talk about the fingerprinting and what not, I just wanted to know if there was a way we could put in that paragraph that the expenses are occurred by the business and or person requesting the license, however you want to phrase that, but it's not stated. So, I think maybe we should insert that just to make it clear. Attorney Morton explained that certainly can be added if that's what the majority of the board would like to do. President Patrick asked Manager Rivas what the cost is of fingerprinting these days? Chief Kubish responded that he believes the cost of the actual background is $500. I believe the submission of prints is that the state charges us $35. President Patrick confirmed that then the entire investigation is $500. Trustee Konstatos asked so then does the person that is putting in the application absorb all of that cost management currently as the ordinance sits or do we need to implicate that. Attorney Morton answer that it's not just fingerprinting. It is investigation. So the $500 that Miss Settles mentioned is I think what you're talking about because that would be the entire part. I would though also call attention to the fact that there's been a structural change as well in here to the initial application fee as well as then the annual fee to try to capture I think on a consistent basis those expenses the village. So I'm not trying to speak for the liquor control commission. I don't know what their consideration on this was, but they might argue that that was already contemplated within the fee. Trustee Konstatos asked if we can make that clear then so we're not overlapping because I don't want to add it something in that's going to overlap that if that's what they're they were trying to accomplish, but can we have some clarity on that? Attorney Morton said he can reach out to the commission and ask if they had more thoughts on that.

Trustee Cordova stated he had a few questions. He will send an email, but the biggest pieces for him, there's two of them: There's a change in use provision in here that specifically like where after looking through it I didn't see what a change in use is defined as number one and then what specifically triggers the automatic termination of an existing liquor license. Then also I know that with some of the liquor licenses we have LLC's and corporations and I'm wondering who exactly would be the subject to the fingerprinting and background check when those licenses are an LLC or a corporation. Attorney Morton explained on that last

issue, it depends on the structure, but it would be whoever the managing person is up the chain. So, a manager of an LLC, president of a corporation, as well as the actual on-site managers of the business, which often are not the same as the ones who are managing the company, they would also be subject to those requirements. As for your questions about the use of licensed premises, that can be revisited to come up with a more defined definition of what you would think that would be. This is what came out of the liquor control commission, but the board is certainly able to make further changes or deletions that you think appropriate. Trustee Cordova stated the I don't know what determines a change in use or when a change in use occurs and if the business gets that determination in writing before its license is terminated or it could just be whenever. There's a lot of gaps in here. So, I have 7 questions that I'll be sending along to the board and to you and the commission. I don't even know. I'll just send it to the board and you guys can get it to where it needs to be. Attorney Morton added that if this is something that the board would like the liquor control commission to revisit even just this portion of the ordinance, the board can recommend that back to the liquor control commission too if you want them to consider those questions versus the board considering them. It's up to your discretion. Trustee Cordova responded that he would highly recommend we send this back with questions and get some clarity before it even comes as a second reading.

Motion to send this back to the Liquor Commission was made by Trustee Cordova and seconded by Trustee Konstatos.

Attorney Morton asked if there's anything else that anyone on the board would like to revisit, I would suggest that we discuss that now to give direction then to the commission. Trustee Cordova commented so the first one was a change in use, how that's defined. Second one would be if they add gaming, entertainment, a patio, expanding the premises, updates, remodel, or any kind of changing of the restaurant concept if that would constitute a change in use. That's my second question. I'm just going to rattle off the questions. I already asked about who determines whether a change in use occurred. Why does one section require an omission to involve a material fact while the penalty section allows suspension or revocation for simply providing incomplete information. I wonder if those two should be consistent. Asked about the fingerprinting. What's the basis for the $1,000 initial application fee, which I believe Trustee Konstatos kind of asked about as well. And then if we're removing the Village President from the liquor commission, why does the president still select both the chair and vice chair instead of the commission selecting its own leadership? And then the last piece here in section 11 is it refers to the applicant. And I was wondering who is the applicant in a Villagewide code amendment and is that an error? Is that language an error? It just needs to be corrected. So, I can send those an email.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar and Sabri
Nays: None

c. An Ordinance of the Village of Villa Park, DuPage County, Illinois, Amending Section 2-330 of the Villa Park Municipal Code Regarding Board Acting as a Body.
This ordinance would create additional rules for how trustees interact with Village staff. It was proposed by Trustee Konstatos. This is a first reading.

Trustee Cordova stated I also have a lot of questions on this that I could send. Do you want me to rattle them off now or should I just send them an email? President Patrick said to go

ahead. Trustee Cordova continued. The first one I'm looking for is what specific problem are we trying to solve that isn't already addressed by the existing prohibition against individual trustees directing and interfering with staff? If you guys want to answer those, you can. Or do you guys want the email? Why does this apply only to trustees if the concern is staff protection, chain of command, and transparency and foyer compliance? Why aren't commissioners and commission chairs who regularly interact with staff subject to the same requirements? What exactly constitutes a meeting? Does this include an impromptu conversation at village hall, a site visit, a concert after a board meeting, or a conversation at a village event? What happens when a department director or employee initiates the meeting rather than a trustee? Why does a Village Manager, Assistant Village Manager have to attend every meeting between a trustee and a department director? Why isn't notifying or copying the manager sufficient? Why is a trustee why is a trustee responsible for creating the meeting notes rather than staff particular if these are intended to become village record in another part if another participant disagrees with the Trustee's note? What's a process for correcting the record? How does this interact with our existing rules of order which specifically allow a trustee to send a constituent service request directly to a department head as long as a village manager is copied? Does this ordinance intentionally prevent a trustee from independently gathering information from a department director without the village manager or assistant manager supervising conversation? And why are phone calls and text messages prohibited even for scheduling? What specific FOIA or transparency problem does that solve? I'll send those as well.

President Patrick suggested bringing this issue to a COW. He asked for a motion to table this item after a COW discussion. Trustee Cordova asked if he should still send his questions in. President Patrick stated he should.

Motion to table this ordinance made by Trustee Konstatos and seconded by Trustee Alfano.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar and Sabri
Nays: None

13. Ordinance for Second Reading

None

14. Ordinances

a. An Ordinance of the Village of Villa Park, DuPage County, Illinois, Authorizing and Approving an Annexation Agreement, Annexing certain territory commonly known as 1208 W. High Ridge Road to the Village of Villa Park, DuPage County, Illinois, and Assigning the property the RS-7.5 Single-Family Residential District Zoning Classification.
The petitioner is the Islamic Foundation. They're seeking a voluntary annexation agreement with the village park. The subject parcel is an R4 single family residence in DuPage County. The subject property, commonly known as 128 West Highridge Road, is currently owned by the Islamic Foundation and is presently used as overflow parking for existing facilities. The petitioner acknowledges that the long-term intent includes paving and improving the existing parking area in accordance with village standards.

Motion to approve ordinance made by Trustee Alfano and seconded by Trustee Kumar.

No Discussion

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar and Sabri

Ordinance Passed

15. Resolutions

a. Resolution of the Village of Villa Park, DuPage County, Illinois, Approving a Contract with Strada Construction Company, of Addison, Illinois, for Construction of the 2026 Sidewalk Program in an Amount of $133,820.00.
This Resolution authorizes the Village President to execute a contract for the construction of the 2026 Sidewalk Program. The project was publicly advertised and competitively bid, with a bid opening held on August 18, 2026. The village received nine bids, with the lowest responsible bid submitted by Strada Construction Co., of Addison, Illinois, in the amount of $133,820.00.

Motion to approve resolution made by Trustee Konstatos and seconded by Trustee Alfano.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar and Sabri
Nays: None

Resolution Passed

b. Resolution Approving an Intergovernmental Agreement between the Village of Villa Park and York Township for GSB 88 Sealcoat Pavement Preservation.
This Resolution authorizes the Village Manager to execute an intergovernmental agreement with York Township through its Highway Department for GSB 88 sealcoat pavement preservation on portions of South Cornell Avenue, South Euclid Avenue, South Summit Avenue, and East Riordon Road. The Village's estimated share of the project is $14,252.02. Funds are budgeted for pavement rejuvenation in the CY 2026 Budget.

Motion to approve resolution made by Trustee Konstatos and seconded by Trustee Kozar.

Trustee Kumar stated she is glad this is being fixed in conjunction with York Township.

Trustee Alfano asked if this is something that is done annually or biannually. Director Salerno `responded that this typically happens after the first year or two after a road has been paved and it adds life back to the pavement. The oils and the liquid asphalt that is typically worn out that first year it's re-energized with this material typically. Then after that, it's like possibly about 5 years after that, five to seven years. So it's not annually, but it's about after the first year 5 to seven years after that.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar and Sabri
Nays: None

Resolution Passed

c. A Resolution of the Board of Trustees of the Village of Villa Park Authorizing the Limited Disclosure of Certain Executive Session Verbatim Recordings Related to Employment Investigation.

Motion to approve resolution made by Trustee Konstatos and seconded by Trustee Kozar.

Trustee Kumar asked define disclosure because there are some legalities. Is it that the investigator is going to come in and view these recordings or is it that we're giving a copy and there is a legality involved in that? They are two different things. Attorney Morton stated that the resolution is written so that it both consents to the disclosure to allow the law firm Lamutin to listen to it, but also there's a clause in here that allows them to retain a copy of it as well. Trustee Kumar replied that she would be in favor of the first but not the second because of the legality of the issue. Attorney Morton explained that by approving this resolution, it is legal. Trustee Kumar stated I don't want to change the law. So, the law says that you can view it in the presence of the clerk, but it does not say that you can get a copy and so I just I mean, I looked into the legality of it, so I wouldn't I'm just saying I'm not in favor of handing out copies. Attorney Morton responded that's fine. I just want to clarify though that the statute also says that that's true unless the board votes that it can be removed from village hall. So that's what this ordinance would do resolution. If you don't support that, that's fine. I just want to make sure everyone understands that it would be legal to do so by approving this. The statute allows you to do it. Trustee Kumar continued that I do not approve that part and I would be making a motion to change it. I am absolutely okay with coming in and viewing the recording. I am absolutely against removing anything. It we should have the same process for the trustees, the president, and even a legal firm. That's my opinion.

President Patrick asked Trusty Kumar, is there a reason why you don't want the investigators to have a copy of that executive session audio? Trustee Kumar responded No, just privacy, private, you know, things are getting out that shouldn't be getting out. And I just feel like I'm fine with everybody going and viewing it. If they view it, they can take notes. They can do what all of us do. That's just my belief.

Trustee Konstatos questioned what if the clerk doesn't allow the investigator to come and listen because I believe it's already been said no. So, if we're not going to give them then a printed copy, then how is the investigator supposed to listen to the records if the clerk is not allowing them to? So, that causes an issue. Trustee Kumar stated that if the clerk isn't going to give a printed copy, they're not going to give them permission to view. Either is going to be a problem. President Patrick asked that we adhere to Robert's rule of order. Trustee Konstatos continued with my concern is the fact that the president, another trustee and this investigator has asked for the information and already been told no. So I mean as far as I'm concerned the information needs to be given to them whether it's coming in and listening coming in and reading it or giving them a copy of their own to read. I mean, we all agreed to an investigation and now information is being withheld and our residents are also waiting to hear results of said investigation and we're trying not to be biased. So, the information should be handed over and given to them. So, I don't I guess that's my question. Attorney Morton added to what he said previously, this is a law firm, Leonard Mutin, that is doing the investigation. Therefore, there is the attorney client privilege that you have with them as you do with the village attorney. They have requirements of confidentiality that they cannot violate. Trustee Konstatos asked then if something were to happen where it got out and it was on

their dime, well then there's steps we can take as a village because of that. Yes. So we're still protected. Correct? Attorney Morton responded “In my opinion, yes.”

President Patrick spoke that as for somebody that has requested the audio of this executive session since the 29th, and I still haven't had the opportunity to listen to this, I'm really curious to know what is being said on that audio. I still don't have any answers. And this seems more or less like a delay tactic as well to delay our investigation and to further prohibit anybody from knowing what was actually said on that audio. I don't understand the hesitation here. And then I know that you said you were going to talk under new business about this whole list of demands regarding amending the investigation and things, but again, this is stuff that we've been talking about. This is what the board has approved and we need an investigation happening. We need to get to the bottom of this. Uh, they should be able to listen to that audio. We all deserve that. Our residents deserve to have answers to what was said in that executive session.

Trustee Kumar responded that the residents at this point, it's an executive session and hence it's confidential. So, that statement is false to begin with, in the first place. So, don't say things that aren't true. I'm not saying they don't have the right to listen to the audio. They have 100% the right to listen to the audio. I'm just saying it's a similar process to any of the trustees to listen to the audio and to just suppose that they won't be allowed to listen to the audio based on speculation and based on the fact that some of us haven't been able to listen to the audio is a mistake. And I'm just saying the law is what the law is. Let's just keep it as is and move on. If we give them the right to listen, they have the right to listen. Nobody should be removing records from executive session, that's been the law, and I want to keep it that way.

President Patrick responded I also share similar concerns that Trustee Konstatos brought up regarding the demands, I shouldn't even say the demands, the requests, all of the requests to listen to this audio. This board held a special meeting. Trustee Sabri called a special meeting on 6/26 at 8:10 a.m. Trusty Kumar at 11:40 a.m. you seconded it. 11:53 a.m. Cordova seconded it. 1:42, Trusty Alfano also seconded the call for a special meeting. On 6/29 at 7:00 p.m., the special meeting was held. At that meeting, Deputy Village President Alfano made a motion to go into executive session and add personnel 5 LCS5/ whatever it might be. That meeting went into the late hours of the night. On 6/29 at 11:38 p.m. that same night while I believe executive session was still happening. I sent an email to the clerk requesting to hear those executive session audios ASAP right away. Didn't hear anything. 7/1 6:25 p.m. I sent another email to the clerk for my second request. Didn't hear anything. July 2nd, 10:49 a.m. I sent another email to the clerk. Third request, guess what? Didn't hear anything. However, on 7/2, there was an adjudication hearing right here in Village Hall. I think it was a hearing for alcohol consumption. Previous Trustee Christine Murphy, Village Clerk Laukant, Village Trustee Sabri all testified as a witness during that hearing. What is that? That's three and a half four days. Still didn't hear anything about being able to listen to this executive session audio. I mean, that's pretty important, especially with what was coming out of there, all the rumors and everything else. So, on 7/6 our village board meeting, the board votes for an investigation. Also remember that Deputy President Cari Alfano, Trustee Cordova, Trustee Kumar, and Trustee Sabri all voted no to allow us to go into executive session the first go around. It wasn't until some of that stuff started coming out that they thought it would be a good idea that we should probably go into executive session and we did but we did vote on an investigation to ensue on some of those things that were happening there. So, at village board meeting on 7/13, the village board created and passed a resolution asking the clerk to provide those executive session audios to me. Guess what? Haven't seen them. 7/15 at 2:40 p.m., I again sent another fourth request to the village clerk also supplying him with the actual signed resolution from the board. Didn't hear anything. 10 days later, 7/25 at 10:33 a.m. I sent another email to the clerk. This is my fifth request. Nothing. Nothing. 3 days later

after that on 7/28 at 9:45 a.m. our attorney Morton sent an email to the clerk requesting executive session audio for the investigation because they had been requesting it. They think that it's critical. It's part of their investigation. So they requesting it but didn't hear anything. On 8/8, I get an email from a clerk that simply said on April 13th, 2025, I told you I would be at my son's wedding in July of 2026. I did go through my emails. I did not see anything from a year previous at 4/13/25 about any recollection of that. But again, that was the only thing it stated. Nothing about the executive session minutes or me having the opportunity to listen to them or what was going on in those. 8/17 3:55 p.m. The investigator that this board approved and hired sent a clerk an email, a request for the executive session audio for the nvestigation. 8/17 at 6:04 p.m. 2 and a half to three hours later, the clerk sent a reply to the investigator simply stating no. So 8/21 10:44 a.m. Clerk demands put an agenda item under his clerk's report tonight. Okay, great. We did that. 8/21/26 at 11:05 a.m. Trustee Kozar, who also was not present on the June 29th executive session, also has equal access to those audio recordings as I do. He asks the clerk for executive session audio and requests it. At 11:06, 1 minute later, the clerk to Kozar, get a court order. At 11:17, our attorney to the clerk and copied Trustee Kozar on that as well, basically explained that no court order is necessary and provided the statute in which would allow it to be so. Couple hours later, 8/21 2:08 p.m. the clerk sent another email to Trustee Kozar. Do not throw me under the bus and expect to gargle your balls. I don't even know where to go with that one. 8/21 4:48 p.m. The clerk to Kozar again. Do not ever show your face in Villa Park ever again. I don't know about you, that kind of sounds like a threat to me. So, here we are. 8/24 8:02 p.m. village board meeting. The resolution ask the clerk to give the executive session audio to the investigators.

Trustee Konstatos added that there's been a lot of emails and talk about being professional and we hired a professional law firm to do this. But yet we're sitting here and saying that we don't trust them to have a piece of paper that they could still legally be held responsible for if it was passed around. Where's the professionalism? I don't understand. I mean, are we using words like biased, tainted, professionalism, transparency, and we're making up the definition and rules as to when to use it as we go along because it benefits us at that time and other times not. I mean, I'm so confused as to why we agree to something yet lately we will backpedal now because there's some, Oh man, I got to think of how to say this without I'm just going to say it without some people being hurt. I don't know how else to phrase it. I mean, it's getting to be ridiculous. We voted for this. We said we wanted it. Now all of a sudden everybody's backpedaling. So I don't know what to say. I mean, they're a professional law firm. It's not any different than our attorney having information in their firm that they are responsible for keeping confidential. There's no difference.

President Patrick stated we have a current investigation going on about the July 29th meeting and the things that were said between two employees. Now, there's some people up here have also accused me of leaking executive session information. I just find that hilarious. How can I leak executive session information if I wasn't even in that meeting? I can't even hear what that recording is. I also want to know what's on that recording and why there's such a strong stance in not letting us know what was in there as well. I think this board needs to let these investigators have everything they need to do their job and to give us the answers we all deserve. Stop hiding behind these. We're going to amend the investigation. We're going to accuse the president of leaking executive session when he wasn't there. This is ridiculous. Our residents deserve answers. Move forward. Just let them have this information. Stop delaying this because what is it that you are all trying to hide?

Trustee Kumar explained that I just said I don't want them to get a copy**.** Actually, President Patrick, you could have reached out to any one of us. I made an effort to meet with you and you said you'll talk later and never met to ask what happened in the 29th meeting, but apparently there's a total lack of trust. There was no reason to reach out to any one of us to

ask or talk to us because I never talked to you about the 29th meeting. You never reached out to me as a trustee to talk to me about this meeting in any way or form. I'm simply saying I want to abide by the rules of the state. I just want I'm absolutely okay with the investigator coming in. listening to the audio. I have no problems with that. I simply do not want copies released. We've had copies of things that shouldn't be released being released by our president. So, how do you expect me to have that trust when you did not have that trust? Trust is a two-way street. Trust is a two-way street. So, you didn't have the trust to reach out to me, speak to me about this issue, or even about that meeting. So, if you don't know what's going on, you're just assuming things, there's nothing I can do as a trustee. I have to follow the law. I believe this is the law, and I'll continue to follow it. I'm absolutely okay with the investigator coming in and listening. If you're afraid about the clerk, deal with the clerk. That has nothing to do with me. I need to follow the law in my opinion. That's it. President Patrick responded that I couldn't agree with you more, Trusty Kumar. Trust has been broken. And also just to remind you that on 7/6, you also denied me the opportunity to speak about a lot of this in executive session. So I mean we talk about trust. Sure. Also I want to clarify something. You say that I released these documents. Well, no, I presented these documents. These documents were already produced by the state's attorney's office and the FBI. I did not produce that report. They did. So, you can't tell me that this is something that I did intentionally. And also too, I mean, the manner in which those documents were created, in which they were received legally makes them a public document. And if you'd like to speak with the attorney, that's something that I actually encourage you to do more of. And maybe we wouldn't have a lot of these issues as well. But yes, trust has been broken. We need to move past this. We need to let the investigation, the investigators have access to this audio. We need to have it now.

Trustee Konstatos added I'm gonna agree. There's been a lot of trust broken on this board. However, we're not talking about that in this document. We are talking about the company we are hiring. So whether I trust you, you trust me, or who trusts who's sitting up here has nothing to do with the company. Again the law firm we are hiring to do this investigation. So let's put aside how we all feel about each other right now and get back to the topic at hand which is the law firm we have hired to do this job. We are talking about that there should be no reason to not trust them. They have nothing to gain from this other than the check we're going to write them to do the job.

Roll Call Vote:
Ayes: Trustees Cordova, Konstatos, and Kozar and President Patrick
Nays: Trustees Alfano, Kumar and Sabri

Resolution Passed

d. A Resolution Amending Rules of Order and Procedures for the Board of Trustees of the Village of Villa Park, DuPage County, Illinois.
This Resolution would adopt amended Rules & Procedures for the village board as it relates to putting items on an agenda under "New Business." This was proposed by Trustee Kumar.

Motion to approve resolution made by Trustee Kumar and seconded by Trustee Alfano.

Trustee Konstatos questioned that the only thing we're removing is the one part that is currently lined out. Correct. where it says and there is an affirmative vote of the board of trustees. President Patrick responded Yeah, I think this makes sense. It's just striking that

line. It makes sense that all it's doing is it's allowing the trustees just to have two trustees to be able to support any item to be placed on an agenda without the board having to vote on that being placed on the agenda. What we've been doing more recently too is that whenever a trustee has something that they want added to the agenda we ask that it's seconded by another trustee and that way it gets put on the agenda. What this resolution essentially does is eliminates the fact that the board has to vote that that has to be put onto the agenda.

Trustee Kozar had a question about the last vote that we just took. Can I ask some questions on that? I mean, we're off the agenda item. President Patrick responded let's vote off this and we'll put it right next to unfinished business.

Roll Call Vote:
Ayes: Trustees Alfano, Konstatos, Cordova, Kozar, Kumar, and Sabri
Nays: None

Resolution Passed

16. Unfinished Business

Trustee Kozar was given the opportunity to speak. He chose to save this comments for the Trustee Report section.

a. Discussion of documents from August 10th meeting.
No Comments

b. Baker Tilly Update

Manager Rivas stated he did not have the update. Trustee Konstatos stated that to my knowledge I believe Trustee Alfano was made the person to receive the updates. So I guess the question would be directed to her as to what update do we have. Trustee Alfano responded we did have a meeting. Our attorney did facilitate that meeting to get us connected and Trustee Kumar was also present in that meeting. There was an email that went out to everybody. We did not really have any back and forth that set very nicely the four parameters or the four things that we are looking to receive. Most of you have access to that information and have been asked to access if you wanted to and to reach out to me if you wanted that access to their portal or to connect with Baker Tilly. They have created some charts and some graphs. I'm not sure that they have met the ask yet of can you make it understandable to everybody. Trustee Kumar added that I've been talking to them about making a final report which will be accessible by the public as well and readable by everyone. Right now what we have is a lot of charts, pie charts and things that are not in a readable comfortable form that are analyzable except for people who do that for a living. I feel like with there should be a report that the public gets at large when we spent $125,000 on this particular item. I've been working with them to actually get that report. There's a lot of data, a lot of information that they have provided us and then they're going to consolidate and there will be a report finally which I've asked for a publicizable report. So something that all of us would be able to access talking about transparency again and again. That is actually the transparency we're looking for. So that report will be available to everyone once they get done with it. They're still working on a few things. I've had a few more asks to send them. I have been keeping the board updated. I've made a practice recently of updating the board with any meetings I have with trustees, any meetings I have with any of the members so that there's full transparency on the board. I'm also expecting such practices from other members of the board which I have to say has not happened which is making it very difficult for us to address some of our things because information

has to be a two-way street. I am expecting that from others on the board. I do not know who they've met with over the week. I've made a practice of any staff I've met with, clarifying what it is and sending it out to the board. I'm an open book. So even the Baker Tilly update, I sent an update of what we discussed, all of what we said. And I know there's a lot of information coming out and I sent every message always, including the board, on every message I sent out. So everybody has everything there on the update. We need a readable document from them, a final deliverable and I just communicated with them two, three days ago asking them for when that would be done. I have yet to get a clear perspective on that.

President Patrick asked Trustee Kumar if she could clarify what she meant a little earlier about when she was mentioning about the board members that there was confusion? Trustee Kumar responded that I've made a practice and I expect that practice. It's not anything that you legally have to do of full transparency. The word transparency keeps coming up. We had a lot of discussions about why some board members know things, others don't. So, I've made it a personal practice. This has nothing to do with anything they have to do. Personal practice of informing the board at large on any meetings I have with staff, any meetings I have with the manager, anything we discuss, anyone I discuss. So I send it out. I have yet to see that coming. Maybe nobody else has met with staff this week or to discussed anything with them. I have yet to see that happening. So the transparency aspect that people keep discussing here, this practice I've made, I think it will help our board. I think our board needs to heal do better things. And Baker Tilly is one thing that I discussed with the board so far. And there's, many other things I've discussed with the board so far. Some stay in executive session. I already discussed what my feelings are on executive session. What's in executive session, stays in executive session.

President Patrick asked Trustee Kumar, you said we spent $125,000 on this audit and that you were asking more asks of Baker Tilly. Is that incurring additional expenses to this audit? And can you clarify again what exactly you're asking for in addition? Trustee Kumar responded that there is no additional expenses from this. They promised that report within our budget and I asked for something that they promised within that budget. President Patrick stated that I still don't understand where you stand at with this. Are you still in favor of this audit? Are you in favor of or pleased with the results or are you asking for better results because you're not pleased with them? Trustee Kumar responded I'm saying that we need a final deliverable from the audit company. It is not about being pleased or not. Once I get the final deliverable, I can decide whether I'm pleased or not. We need a final readable deliverable. I think everybody on the board would want this anyway - that we can all read and understand what the audit company is saying. President Patrick explained I guess I just don't understand because the fact that when we brought this up that was part of the original discussion was that they would have a deliverable for us. So you're saying it hasn't met your expectations of what they've given you yet? Trustee Kumar responded Absolutely, and that's why I'm in conversation and they've promised it within their budget.

Trustee Alfano stated I would like to, because our attorney was also in on this meeting with Baker Tilly, I just want to make sure that we are clear that we clarify through our attorney that they did say that it was a deliverable. They thought that they had already kind of presented that but were understanding that it wasn't exactly what we were looking for because some of us couldn't understand it and that they would present something to us that was going to be a little bit more readable and digestible from folks that are not in the business. If you could speak on that. Attorney Morton added: Yes, Trustee. That was my understanding of our conversation is that they thought they had delivered what was needed, but I think the representative from Baker Tilly had a better understanding of what it is the board was looking for and said that they would get that to us. I don't have the same

access that you do to the data files that they send out, so I can't speak to whether they have done that or to what degree they've done that, but I will also confirm what Trustee Kumar said they guaranteed that they would not go over that cap while still providing all of the things that were being requested. President Patrick added I do agree that municipal budgets are an animal of its own. Even for board members to understand or comprehend what a municipal budget looks like, it's difficult. So I do appreciate the fact that Trustee Alfano and Trustee Kumar are trying to get that simplified for us as well as our community out there because again a municipal budget isn't always something that's really easy to understand.

Trustee Konstatos stated you said you sent an email out to everybody with an update of what your meeting with Baker Tilly consisted of. Can you clarify what day that was because I'm not seeing anything. Trustee Kumar responded I sent it to the board. Attorney Morton explained just to put everyone in the same time frame, our meeting with the representatives from Baker Tilly was on July 29th. That would be the start date. Trustee Kumar stated I sent it on August 11th.

President Patrick asked is there any other updates uh regarding Baker Tilly? Trustee Alfano responded that unless somebody would like us to bring something back to Baker Tilly and you're looking for something additional. No, look on the portal. Most of you have access to that. I see almost everybody on there except for maybe two. Trustee Kumar added that on Tuesday, I sent them a message bumping them saying that we're expecting this. I see some of the graphs. I would like to see the final deliverable and explaining how to kind of process some of this and kind of get it to us. That was an expectation I had. They said they're working on it and that's all I got. There's not really a great update other than that. Trustee Alfano continued what would your timeline be generally? How when would you like to see this? Because maybe we do need to give Baker Tilly kind of a hard stop of this is when we're expecting something that we can pass out to folks and it would be able to be easily read. What is the board thinking about that? President Patrick asked my question to you is that from what I'm understanding right here is that they've already produced their final report. However, it hasn't been simplified or made easy for us to understand. Trustee Alfano stated I don't see it as a final report, which is part of why I brought it. President Patrick clarified that Baker Tilly believes that this was their final report is what you said. But you don't see it as that way, so with the discrepancy there though, with their final report and with that meeting that you had on the phone for them to explain everything to you, what were the major bullet points that you came away with that they were saying about the audit? Trustee Alfano responded to be quite honest, you're I'm assuming you're speaking. Yes. Yes. To be quite honest, we weren't speaking about any of the details in that. We spoke more about what we were looking for as a package and what we have and what we have and what I see and what you are a part of and what Trustee Konstatos is on. And I think attorney Morton is on there. I'm not sure that he's ever logged in. It doesn't show me that. And a bunch of staff is all of this information, all of the check images, everything that they've combined and they've looked at, but I'm not seeing anything that I would say is a report. Okay. It is all charts. It is all on like Excel spreadsheets. And that's where I don't maybe I'm not in the business. Is that a final report? I'm not sure. I think it needs to be something that's a narrative, that says this, this this these are our findings. President Patrick responded that I understand that. But I'm just generally speaking with what they came back with, was there anything criminal or illegal found? Trustee Alfano answered not to my knowledge. Okay.

Trustee Konstatos stated that I went back and I still don't see that email. if you could just reforward that to me, I would appreciate it. Secondly, yes, I agree. When we were speaking with Baker Tilly in the beginning and they had each of us give their ask list, we all gave our

ask list and I literally told them what kind of report I expected - like some sort of an outcome in verbiage. All that was in there, it seemed to be whatever our staff supplied them with basically just got scanned and input into the system. We could have did that ourselves. So, there was a couple of spots where they kind of gave a little overall briefing, but that was it. So, yes, I was also expecting some sort of report in words, not necessarily with charts. Sure, they could throw a couple of those in if they feel the need to, but actually explain here's what we looked at, here was the outcome of each topic. Something that's more tangible. That was made crystal clear to them from the beginning. I would say I don't think they should really need any more than 30 days to complete this. It's been almost a year. I think what we're having here is that our board language doesn't match financial language and we need that translation or we need it simplified. Obviously Baker Tilly says that this was their final version. We don't believe that it is that. I think what we could ask them within 30 days to produce a simplified or translated version of the report that they supplied us. Trustee Alfano responded one of the other things that I wanted to add is that in addition to what the village does well, let us know what it is that we might need to change. I don't know that that is really in that portal at all. I do think that 30 days should be adequate. I would ask that our attorney be the one that reaches out to let them know that. President Patrick asked if we can all agree on 30 days from today? I ask Attorney Morton to reach out to Baker Tilly and ask them to translate their report or to simplify it for us, but also to what Trustee Alfano said earlier when we originally wanted this thing it's more or less like what happened, how it happened how do we move forward. Can I just get a consensus from this board that will give Attorney Morton the authority to reach out to Baker Tilly asking them for 30 days to supply this report. Trustee Kumar stated that I had one other thing to ask when they came in, they promised trend analysis which is what I also expect from them. I've already reached out to them. That's kind of the graphs they promised to begin with. I'm not about to let them out of their promises. 30 days is fine with me. I think also talking to Michael Art, they're working on that timeline, so we should get something soon. President Patrick asked if a trend analysis something that could happen within 30 days? Yes. So, 30 days to translate and simplify their report to the village board including a trend analysis and Attorney Morton will have the privilege of reaching out. Attorney Morton stated to clarify my response saying yes, they can do it is because they said they could in a short time. I am not a forensic accountant. I'm just repeating what they said. President Patrick added that this is simplified for our residents as well that they could understand that that this is what we found, this is what happened and this is how we're moving forward. Trustee Alfano explained that I really do think that it's in the simplification and it's in being able to allow all of us to understand it. I have spent several hours just asking them questions about how I'm reading this. And it takes a lot of investment to understand, so we do need it simplified.

17. New Business

a. GREEN Commission Recommendation for Fishing Line Recycling Program

Manager Rivas shared some background about this situation. Twin Lakes, Lufkin and Terrace Park are valued green spaces for public recreation and local fishing. However, improperly discarded fishing line poses an environmental and safety hazard. According to the Boat US Foundation, more than a 100,000 marine mammals and other wildlife die annually in the US due to entanglement or ingestion of littered fishing gear. Because monofilament is not biodegradable and can persist in the environment for over 600 years, dedicated collection points are essential to protect local wildlife and maintain clean and safe parks. President Patrick explained that The GREEN Commission, this is their first official

recommendation to the board, has spent a considerable amount of time researching this. It's actually pretty feasible. I think for about $300, they can do all three locations. We even have a commissioner that's willing to do it in house if the village can pay for the $300 supplies. I'd like to ask the board that if they are okay with the village spending the $300 for these supplies. Do we accept the recommendation? Trustee Konstatos asked if this isn't technically within their budget since each commission gets a budget? President Patrick responded yes, but we have not established a budget for them yet. And as we're going into budgeting season, that's one of the issues that we're going to be addressing. But as $300 is under the village manager spending authority, this is something that we could just collectively make it happen. Trustee Konstatos would be totally in favor for that. Trustee Kumar added that I would like to establish them a budget about $750 because other than this there's a lot of things they talked about including the fishing line. They talked recently about magnets. They want to do a go green and keep Villa Park clean campaign which I think is actually a great idea. So giving them a little bit of a budget gives them a little bit away to get there. I would like this commission to spearhead some of this stuff. I'm not expecting a full budget for this year. If we could give them about $750 and part of that would be 300. President Patrick added just to comment, our role as elected officials is basically to find out from our residents what's important to them. I understand this in this time, we tell village staff what our residents are telling us is important and to prioritize those in our budget and then it is their job to go ahead and make those work. I ask that we bring that $750 discussion to the table when we talk budgeting. I think it would probably be best right now until we do that to have it under the manager spending authority. Manager Rivas stated the village will pick up a tab. President Patrick continued with just another consensus then from the board. Would everybody be in favor of directing the manager to allow $300 for this commission? And if so, then I would entertain a motion to accept the green commission's recommendation. Trustee Konstatos made that motion and stated I'm in favor of the $300. Trustee Alfano seconded the motion. No discussion.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kumar, Sabri and Kozar
Nays: None

b. **The Garden Village Recommendation for Picnic Tables on Villa Avenue at the Prairie Path.**

Manager Rivas explained that it looks like they had a recommended statement. The Garden Village Commission recommends that the Village of Villa Park allocate funding for additional four new picnic tables to the open grass covered land northeast of Villa Road and the Prairie Path.

President Patrick explained that the Garden Village has been meeting and talking about the picnic tables right there outside of the Prairie Path. I think for Villa Park, we absolutely need to spend time highlighting some of our features here. The Prairie Path is one of those. When we could start attracting more people and businesses to these areas with things as simple as park benches or what have you, it's a step in the right direction. I am absolutely in favor of this recommendation. Trustee Konstatos stated I would like to know if some of my commissioners would be able to come to the podium and talk a little bit about what they would like to do for that. Also, as to why and where and how like what the meaning of the benches is and what they're looking forward to doing. President Patrick said I can't force them to, but if they're willing and want to speak to give a brief explanation of the recommendation. Some commissioners added that we've been wanting picnic tables for a long time. We have some images of seating. They're just wonderful outside Villa Perk. That little section of the prairie path, everybody says, "Oh, I've always wanted something to be done with it." So we figured we will wait until next year to start work on the bigger completion,

but we thought, can we just have some picnic tables for summer? It's still summer and we would really appreciate if you vote and approve. We look forward to just starting with the four tables and then we'll work them into our concept. Commissioner Smith explained I have been working on this initiative with Commissioner Gallagher. When we looked at our community plan, this was just an area that of green space that is underutilized. There's a lot of pedestrian traffic that's going through that area of Villa and the Prairie Path. I often see people just kind of crowded sitting on the one lone picnic table that's been there forever. Or people sitting on the grass. We figured this is a way that we can like lowhanging fruit, start off making an impact without much of an investment. As part of the funding recommendation, we do have a plan to have sponsorship because this will be a benefit to the businesses in that business district in that neighborhood, especially those that have restaurants. We also want to do some planters. That's also in the plan and would be donated by existing planters that we already have in the village with just a minimum investment from our existing budget to buy sustainable flowers. But it just a little bit of effort would really go a long way for that area. So, if anyone has any questions, we're happy to ask. Trustee Kumar said I'm totally for the picnic benches but would suggest you also have a garbage can that goes along with them for the picnic trash. I would be in favor of adding the four picnic benches with an accompanying trash can somewhere near there. However, I do not know how staff feels about it cuz they're going to have to clean out the trash. President Patrick mentioned to Trustee Kumar that your GREEN Commission has discussed this in length as well as adding recycle next to a garbage can. I think if you just give it a little bit of time for those discussions to happen naturally, I think the green commission will make that formal recommendation as well. Commissioner Smith added I was going to say given the location, there are already trash receptacles in in that area, but I do think it would be a good idea to evaluate where an additional trash receptacle that does have recycling could be a benefit. Trustee Konstatos added that I know this commission is also looking towards being able to add on to this project as the years come, maybe a harder surface, add on some umbrellas and whatnot. So this is the start of trying to work in that area. I think their idea of getting sponsorships from businesses in the area or business from anywhere in the community and putting some sort of a plaque on the table acknowledging that sponsorship is a wonderful idea to bring the businesses in the community together It also helps with the budget and that their picnic benches are actually within the budget that they have been allotted for this year. I want to say thank you to all of them for trying to put this together. It's going to be a wonderful project and something they can build upon for years to come. President Patrick agreed and stated I know that not only have you been working with staff and the community, but you've also been working with DuPage County regarding permits and what have you. Those are great partnerships to make and thank you for all the hard work you're doing. This is now the second project that your commission has utilized underutilized green space. More recently the Garden Village Commission created a new natural park and the community has named it, but we're not going to tell you the name right now because we're going to do an unveiling in a few weeks when we have the sign printed for the community. I'd like to entertain a motion to accept the Garden Village recommendation.

Trustee Konstatos made the motion and Trustee Kumar seconded the motion. Attorney Morton added that as with the previous recommendation, the motion would be to authorize the village manager to perform this under his spending authority. Otherwise, an ordinance would be required and that's not we don't have that prepared. You could also wait if you want it by ordinance, but it's up to you. So, just to clarify, Trustee Konstatos, your motion is to allow the village manager to spend the money for the picnic benches that the garden village commission is requesting. Trustee Kumar seconded that motion.

No Discussion.

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar and Sabri
Nays: None

c. Governance and Administrative Next Steps

Manager Rivas explained that this is related to an email that was sent by Trusty Cordova on August 14th. I had acknowledged the email on the same day about an hour later and invoking the rules and regulations of order and it's subsection 3B3 board's direction of staff that says any one request that takes longer than 2 hours of staff, we can bring it to the very next board meeting for further discussion and direction. I just want to let you know, Trustee Cordova respectfully, that we were compiling things as soon as you did ask. We did bring it before the department heads on the very next Tuesday and the 17th. So we are compiling the things you did ask. But I just like moving forward I wanted to let you know that last week we're Villa Fest intensive getting ready for Saturday. This week I have six additional meetings for budgets. Each one's averaging about an hour and 15 minutes. I have two of them already. So I'm looking for additional direction and see what kind of logical timeline you'd like to have these things responded to. President Patrick added that for the people watching at home that might not understand what the manager is referring to, Trustee Cordova, can you just give us a general synopsis of what your email was requesting? Trustee Cordova responded that we had a hectic couple of meetings over the last few weeks before the 14th. So I sent an email asking for a few things. What I asked for is if staff can start pulling together a clear picture of where we currently stand on the following. Trustee Cordova read his list. Discussion ensued regarding content of the information, length of time to complete the document, burden on staff to produce the document, etc. President Patrick concluded that we don't need a vote or a motion. We just need a consensus that this is what the rest of the board feels that we should do with this item. So, I'd like to take a consensus of the board then to allow manager Rivas to put this together. Can we do a consensus? Further discussion took place whether to take a consensus or a vote. Attorney Morton stated I agree with Trustee Cordova that a vote would be appropriate. President Patrick suggested to just take a vote. Trustee Kumar seconded the motion.

No Discussion

Roll Call Vote:
Ayes: Trustees Alfano, Cordova, Konstatos, Kozar, Kumar and Sabri
Nays: None

President Patrick added: Manager Rivas, do you understand what's being asked? Manager Rivas responded yes, I do. And I'll try and get a responsible, respectful timeline as quickly as I can to the board.

Trustee Alfano added another new business. I am asking that we have IML come in to do and help us with the self-evaluation because we have problems getting and staying getting work done for the village and staying focused on the work that needs to be done for the village. I propose that it is IML that does it. We are all part of IML and we have all almost all of us have gone to trainings. We've talked about how trust is waning. Trust is broken. We see that that is all that I hear from residents is why aren't we just getting the work done, my roads, my sidewalks. We need help focusing on that and I think it would really benefit us to bring that in. I don't know why anybody would not want that.

Manage Pierce stated I actually spoke with IML this afternoon to get some of that going and

they just need me to coordinate first a phone call or virtual meeting. It could be myself and both Trustee Alfano andvPresident Patrickvso that they can get an idea of exactly what you guys would like in the training and then they will pick a date where they'll be in a close session to be able to provide the training for you. I had that email come in like 3 hours ago so I didn't have a chance to email both of you yet. So we are getting that ball rolling. Trustee Kumar stated I also seconded that motion and it did go through, even though I don't know why they didn't put it on the agenda. I do feel that this board is a bit defunct and that training can help us. There's a lot going on and a lot of concerns I have with board morale. I think any training we get can be helpful. Attorney Morton added that because I'm involved in the putting together of the agendas, I never saw this, so I don't know who was on the email, but not that you're required to tell me. I'm not one of the ones listed, but to explain why it wasn't on the agenda today. I wasn't aware there was a motion or second. Trustee Alfano confirmed you're not the only one who puts the agenda together. Further discussion on that ensued.

Trustee Konstatos asked two questions: Even when something is requested to be on the agenda, do we not have something in an ordinance that states there's a certain amount of time or is that not for trustees requesting things? My second one is would this IML class which I am all for be in addition to what was recommended just to clarify cuz I believe your email said it was Manager Rivas who requested or recommended something when actually it was HR director Jackie Pierce that requested and recommended a boot camp that did not come from the manager. I'm game for both. I just want to make the clarification. Manager Pierce responded that it's actually the same exact thing. There was miscommunication to us from IML. Somebody at IML said that they got rid of the program. They actually didn't. APD does the exact same training as IML. So that's why I actually reached out to IML because it would fit more the municipality type of thing. Attoreny Morton added to clarify from the rules of order, which this ties into part of the amendment that you voted on today, if two or more trustees submit in writing to the village manager, village clerk, and village president a request for a specific item to be placed on the agenda in a timely fashion, it shall be added to the next agenda. An item for new business must be submitted at least 5 days prior to the meeting to be included in new business or two weeks prior to the meeting if the request includes direction to staff for a resolution or an ordinance. Further discussion ensued regarding definition of days and gray areas. Trustee Konstatos explained I'm trying to avoid accusations. Manager Rivas and President Patrick explained the process again.

Trustee Kumar added to new business regarding the August 10th document. She expressed Her concerns and explained her concerns. Lengthy explanation regarding ratification, AI devices, emergency personnel protection, digital evidence, and the use of Village stationery. President Patrick agreed with some items but would like to know where the digital evidence is as well. Trustee Konstatos suggested these items be addressed to Trustee Sabri. President Patrick stated he does not have to respond. Trustee Konstatos continued about what Trustee Kumar is asking. She also stated that Trustee Kumar's statement about the Finance Director is biased. She continued with the specifics of the distribution of that document. Trustee Sabri stated no comment to Trustee Konstatos questions. Picking one person to be protected is biased and tainting the investigation. President Patrick explained the use of the stationery. But no question about someone being recorded. Now I am being silenced…what are you guys trying to hide? I can't get executive session video. This is getting out of hand. Attorney Morton jumped in and stated the motion because it's under new business. I believe that Trusty Kumar has made the motion by stating these four things that she wants on the next agenda under new business. It requires a second person to agree and we have a second now from Trustee Cordova. So now there's no vote to be taken on this…it's just goes to the next meeting. President Patrick added so I ask everybody to bring your questions for Trustee Sabri and the rest of these four to the next meeting.

18. Village Commission Reports

a. GREEN Commission Minutes from the meeting held on July 21, 2026
b. FUN Commission Minutes from the meeting held on June 23, 2026
c. Plan Commission Minutes from the meeting held on June 17, 2026

No Discussion

19. Village Clerk's Report

During the execution of my official duties as village clerk for the village of Villa Park, I became aware of illegal activities necessitating legal scrutiny, analysis, and investigation. I'm currently engaged with independent counsel and Illinois state regarding these findings. At the explicit recommendation, I am prohibited from sharing further details, documents or commentary to ensure the integrity of the legal process. Mongo sad. Just a pawn in the chess game of life. President Patrick asked if you can you clarify clarify what you just said? You were working with who? Clerk Laukant responded during the execution of the official duties as village clerk for the village of Villa Park, I became aware of illegal activities necessitating independent legal scrutiny, analysis, and evaluation. I will not violate the oath of my office. President Patrick commented that according to the DuPage County's Attorney State Office incident report that was handed out at the last meeting, too, there was also another trustee that had many allegations about multiple businesses in town and multiple staff members that also came back as having absolutely no credibility or evidence. I don't know if that requires the clerk as well. Clerk Laukant asked President Patrick did I mention county? He responded No. Clerk Laukant responded then why did you mention DuPage County? He responded for clarification. Clerk Laukant stated that it's called objication. It's called trying to deflect and dodge. It's bullshit. President Patrick stated I agree. Clerk Laukant added Ryan Morton, would you like to discuss the packages for the three available trustee positions? Would you like to discuss where that sits right now? Attorney Morton responded that there are three spots open in the next municipal election on the village board. There's also a library board that has several openings as well. There are packets of information available on the state board of elections website, the Illinois State Board of Elections website. You can if you're interested in running, you can access that packet or there's also a calendar to inform you of when things are due. The clerk's office is responsible for when those packets are turned in. Clerk Laukant added that if anybody would like to receive a package, all they'd need to do is call me at 630-415-7500 and I will hand deliver a package to them.

20. Village Trustees' Report

Trustee Kumar:

I think Villa Fest was a beautiful occasion.
The GREEN Commission is working on new stuff – composting and grants – I will bring that soon to the board.
Cat Guardians is having their new beginnings party on August 29th at 932 E. St. Charles Road with a $5 entry fee.
Discussion of the administrative chaos disrupting our Village Hall.

Trustee Sabri:

I received that document on August 10th in our village board meeting. Fabricated, dated December 5th, 2025. That's what the document says. I knew nothing about this highlighted

color document and also the police report. I know the residents are watching and they're also reviewing that meeting as well and we had 900 plus resident viewed that meeting so far. The question comes is why? The question is, the question I ask is, is it about me or my reaction going back and forth about this document? I have been asking the same questions for a long time. Our residents can go back and they can review December 8th, 2025 meeting. The question I was asking December 15, the budget meeting and also you can review the December 29th meeting. On December 29th meeting, one of my fellow trustee said to the entire village, "Good luck, Villa Park trustees." And today on August 24th, 2026, I'm asking the village resident, can you handle the truth? I know some of us at this board, they're saying that our resident, they have deep pockets. Let's see where those deep pockets are.

Trustee Alfano:
I want to congratulate the Villa Fest Committee for a great event,
I want to thank Lily Morgan for the constant communication between committees and staff.
I want to thank Manager Rivas for stepping up to the plate and making this event happen.
FUN Commission meeting is tomorrow night. They are planning the Autumn Jubilee schedule for October 10th.
Community Recreation Commission meets this Wednesday at 7 p.m.
Sunday, Sept.. 13th is Geek Palooa at the historic museum on Villa Avenue.
Shree event is September 12th at 11 W. Home Avenue.

Trustee Konstatos:
Based on everything that has been said, I encourage all trustees to step aside and let the investigation go as planned and not interfere with it and not try to taint any of the residents opinions of the investigation being done or the results that will come out to benefit themselves personally and or politically. Let's remember there's an election coming up soon. Take that into consideration when you're listening to gossip and excuses. Also remember transparency is what one is not what one individual sees fit as telling the public but the good, the bad, and the ugly as well.
I challenge and encourage every trustee up here, including our village clerk, to do their due diligence. Manager Revas has given this board more information and leniency than any other board previously before us. I ask that everyone up here adhere to the ordinances and not think they are an exception.
I have to say is Trustee Sabri, if you are saying the meeting didn't take place, you did not record the meeting, and you did not give me the transcripts in your office, well, you know the truth, and so do I.

Trusty Cordova:
Summer's over in Villa Park. School started last week. This week is the first full week for all the schools in Villa Park. I see them. I see them at the bus. See them running around. Congratulations to all the parent who sent all their kids off to school.
Willowbrook won their football game on Friday – a lot of people attended.
Kudos to the staff of Villa Fest – I was out of town but heard it was a nice success.

Trustee Kozar:
I want to discuss the Clerk - after sending me an email I think it was Friday telling me to gargle parts of my anatomy, telling me to take him to court if I wanted something that by right as a trustee I have which is to see or listen to the audio of that meeting and he threatens me and says, "Don't show your face in Villa Park." Pretty classy guy. I asked him what his issue is with me and he wouldn't tell me. That's just cowardice. If you've got an issue with me, speak up. Tell me what that issue is. And I'm telling you again, Clerk Laukant, if you have an

issue with me, tell me what that issue is. Don't threaten me. Just speak up. Then clerk Laukant puts this packet on everybody's seat at the dais and one of them is a draft complaint for a right of mandamus. So, for starters, he miscites even the law coming into it. And I want to be clear to the clerk. I'm not asking to listen to that audio by submitting a FOIA. I'm doing it as my role of an elected official and a trustee that I have by right to listen to it. It's not a FOIA. So, you're in your complaint where you talk about the Freedom of Information Act and the Open Meetings Act. I would turn your attention to Beerburn, Inc. versus Dillard. You might want to write that down or I guess you can get it off the video here. 227 Illinois Appellet Court, 3rd District 68, 1992 case. Look it up, clerk, and read it. The clerk gave his report and said he was talking to legal counsel who advised him not to speak. And in that email, I've got what I presume is his legal counsel. He sent us an email where he's exchanging emails back and forth with his legal counsel. Michael Ghart, I'm assuming that's your that's your attorney. What's the purpose of sending this? His email address mg@gmail.com, but yet you can't speak about it. I'm asking the clerk right now, let me listen to that video or let me listen to that audio. Do you refuse to do that? I'm asking you a question. Do you refuse to let me listen to that audio regarding this matter? Clerk Laukant responded that I've been instructed by independent counsel and the Illinois State Attorney to refrain from sharing any information or providing commentary at this time. Just going to have to wait till it's your turn. Trustee Kozar asked who is your attorney? Clerk Laukant responded that I don't have to tell you that either. Trustee Kozar asked is that why you included an email here? Clerk Laukant responded you know what? Maybe you should do your homework before you ask some questions. Trustee Kozar asked what homework would that be? Oh, well, I don't know any of this. What homework would that be?
Clerk Laukant responded has anybody ever in your life told you no? Because I'm telling you no. They continued back and forth. As to Trusty Sabri, Trustee Sabri is telling us that this transcript was fabricated and the police report was fabricated. And the first time he ever saw this was on August 10th. So he gets this document that he alleges is fake, fabricated.
He takes one look at it and he leaves the room. If any of you out there were to get a document that was purported to be yours with your words on it and a police report with your name on it that you had never seen before and in your mind was completely fake. Is that what you would do? You would just grab it and run out of the room? I wouldn't. I would say, "What is this? I've never seen this before. This is a fake. Unless it wasn't and he didn't know what to do and he got scared and he just ran out of the room. I think we just saw trustee Sabri, the only unelected trustee up here, outright lie to all of Villa Park and all of the board. And I question his truth. I question his integrity. I question his ethics. And I don't think he's fit to serve on this board. I don't know what's going on up here, but between the clerk and trustee Sabri, some of the comments up here, it's just a disgrace.

21. Village President's Report

Chaos, Trusty Kumar calls it. When did it start? Well, for me it was December 5th.
When the conversation was had and I'm still having a hard time getting over the fact that Trusty Sabri is outright denying that he created this. I could understand why the document that I provided with the village letter head and kind of everything, but how do you deny the county state's attorney's office police report that's out there that also is a public document. Read it because there's a lot in there as well. Not to mention that trustee Sabri went to the state's attorney's office and the FBI about I think what or Laukant is explaining illegal and criminal activity that he has come into. But yet no cases were open because there is absolutely no evidence. I also think it's unusual that if you were to look at the transcripts that there are things in that transcripts that only trustee Sabri would know about. Same with Director Mika who is also in there. And talked about protection for staff. I understand that. I agree. But at the same time, if you do look at the document that I passed out, there's three and a half pages of names, including staff members, multiple staff members that were named in this

document in a private conversation with a village employee outside of the village. And I think there's a lot of blameshifting going on here because when you look at these documents that were passed out, it's almost like you're comparing I used village letterhead to give this document to the state's attorney's office. But yet you have a secretly recorded conversation against eavesdropping law which is clearly defined in that police report. I think I'm just a little taken back by Trustee Sabri but trustee Kumar has left. She had also talked about clarity and asking questions. Well, this document, these documents that I produced are not about me. It's about them, village staff, this man to my left, our finance director, and most importantly, the one who illegally recorded this conversation, Trusty Sabri. I again I am just taken back by the behavior by the attitude and the lack of responses and Villa Park deserves better. Our residents deserve better. Ask the questions, read the documents, please. We're going to be addressing this again in in two weeks. I ask that you all pay attention to this again, a ratification of the scope of the investigation that we already came to. Why is there an attempt to reclassify the scope? Why shouldn't it involve all documents, all phone calls, phone logs? It absolutely should and it was a part of this. It seems like another technique to discredit the final reporting of an investigation. Blameshift. Hey, look at President Patrick for using Village Letter Head. But never mind the illegal recording and let alone the things that were said inside of those transcripts about employees. I mean, who does that? The other question I have, and I think the rest of the residents should ask as well, is how many more of these recordings are out there? How many more transcripts are out there. I don't know. But we do have an investigation. There is a scope. And I hope that when that investigation comes to a conclusion that this board would be more than willing to release that report to the public as well. That is my ask.

The village met with Mortadeli this last week. Mortadeli is looking to transfer their business elsewhere, more or less. I believe it's 24 St. Charles Road. And I am absolutely in favor of the move to that location. I think it's a great opportunity for them. I think it's better exposure. and this is something that they've come to us and said this is something that they would like to do. I am absolutely in favor of helping them with that. Now, in that conversation too, we did present them with their class I license. They did reject that license due to some of the conditions that they didn't agree with at that time. Right now we are working with that to make those conditions favorable to both sides. However, in that conversation that I had with Mortadeli, it was very important though is I clearly stated that while I am in full support of this move is that the village board has stopped all gaming and new gaming on the St. Charles Road corridor. So, Mortadeli is going to be presenting to the board soon about trying to assist with their move. The village can't assist with their move. They're able to move if they so desire. The one thing is is that they would not be able to bring on the current license gaming to that location. So, that's something that Mortadeli is going to have to consider or the talks have to keep continuing here. But that lighter note is that we have a a great business in town that's looking to do better, looking to grow, bring more to Villa Park, and I in favor of helping them with that move. I'm not necessarily in favor of the gaming. This is something that we've talked about long enough on this board, but when Mortadeli comes to the board and presents us with there, that's something that we'll have to consider. But that is something that I think is also exciting for Villa Park here moving forward.
Recently we've had some new businesses open as well. 302, Porto Noeva. we have more coming.
One of the food vendors that we had at Villa Fest is looking at coming to a permanent location in Villa Park over by the Burlington Coat Factory.
The Union project started with one panel of the wall and now is almost halfway done with the skeleton of the first building there. There's amazing progress happening.
Car 321 is coming next spring. Stay tuned. Car 321 is coming.
At 5 East Park Boulevard, they're building out that corner for a new restaurant which will be right across from car 321.

We've got the Garden Village Commission making recommendations for the park benches and expanding parts of those green spaces.
We have a new natural park that we are going to unveil the name of here within the next few weeks.
I think with all the challenges that we've had and faced, the amount of success that we've also had is very important and something that we shouldn't forget. And I do believe that a lot of that success should be given to the man to my left as well. It's not easy doing that kind of job under the types of pressure and everything that has been put on him. But yet he has come through and I admire that. So stay hopeful, Villa Park. We've got this.

22. Village Manager's Report

I want to address this to our staff. We're doing a fantastic job being great stewards of the budget. Revenues are outpacing expenditures this year by 3.9 million. We still have a deficit, but we're doing our job. We're being great stewards of budget.vvThat's a credit to everyone here at these tables and including Director Mika. We still have some obligations coming up. We have four months left, but I think we're going to be producing a favorable financial year. We're going to be putting a responsible budget together which we are already working on and we've already had two meetings on it. We have four or five more to go and we have an A-list B list, you know, wants and needs. We're creating all that. We'll also be seeking direction from the board and what's important to this board, what's important to this village. So all the citizens out there, there are things that you definitely want to see happen.
We know some of the street projects that are out there that have to have happen. We know Wisconsin has to happen. We know Washington has to happen and Westmore. So we know those are those are projects but a few that we have to get to but we also have the right to find the right funding.
Villa Fest was a tremendous success to many of the people here sitting here as a credit to you. It's a credit to the Villa Fest subcommittee that work so hard. One person should stand above everyone else and that is Lily Morgan. She tirelessly worked her butt off to put this together where I would like to, you know, say to myself, Villa Fest should also be known as Lilly Fest because the incredible contribution that she put tireless the amount of stress that was put on her. So, thank you Lily. Thank you Villa Fest subcommittee. Thank you everyone from staff that participated all the volunteers.

23. Executive Session

a. Pursuant to 5 ILCS 120/2(c)(1), the appointment, employment, compensation, discipline, performance, or dismissal of specific employees of the public body or legal counsel for the public body
b. Pursuant to 5 ILCS 120/2(c)(11), Litigation, when an action against, affecting or on behalf of the public body has been filed and is pending before a court or administrative tribunal, or when the public body finds that an action is probable or imminent.

Motion to go to Executive Session made by Trustee Konstatos and seconded by Trustee Kozar.

No Discussion

Vote:
Ayes: All
Nays: None

Adjourn to Executive Session at 10:21 p.m.

24. Adjournment

Meeting will be adjourned at the conclusion of Executive Session.

Respectfully Submitted,

Rolf Laukant
Village Clerk

MEMORANDUM

TO: Village Board of Trustees

FROM: Kevin Mantels, Village Engineer

DATE: September 14, 2026

SUBJECT: Resolution of the Village of Villa Park, DuPage County, Illinois, Authorizing the Submittal of an Application for the Funding of the 2027 CDBG Northwest Area Street Improvement Project from the Community Development Block Grant Program.

RECOMMENDED ACTION:
Staff wishes to submit the proposed 2027 CDBG Northwest Aera Street Improvement Project for consideration for DuPage County Community Development Block Grant (CDBG) call for projects. The project would include roadway improvements on Lincoln Avenue from Sunset Avenue to North Avenue; Roy Drive from Lincoln Avenue to Ridge Road; Ridge Road from Lincoln to Westmore Avenue; and James Street from Lincoln Avenue to Westmore Avenue. A resolution authorizing the submittal of the application is required as a part of the application submittal.

BACKGROUND:
The streets identified for this project have reached the point that roadway rehabilitation is needed but reconstruction is not expected to be needed. The Village's Strategic Plan identified aging infrastructure as a high priority for the Village. Completeing the roadway rehabilitation of theses streets will allow the Village to get ahead of the Strategic Plan in terms of street imporvements.

DISCUSSION:
The project location is primarily residential and corresponds to US Census Tract Block Group 843301-3, consisting of 61.20% low-to-moderate income households, making it eligible to receive DuPage County Community Development Block Grant Funding. Staff wishes to submit an application for roadyway improvements utilizing CDBG funding from DuPage County. As a requirement for the application process, a resolution from the Board allowing for the submission is required.

Resolution No. _____

RESOLUTION OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS, AUTHORIZING THE SUBMITTAL OF AN APPLICATION FOR FUNDING OF THE 2027 CDBG NORTHWEST AREA STREET IMPROVEMENT PROJECT FROM THE COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM

WHEREAS, the Village of Villa Park (the "*Village*") is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and

WHEREAS, the Village will undertake street improvements to Lincoln Ave (Sunset Ave to North Ave), Roy Dr (Lincoln Ave to Ridge Rd), Ridge Rd (Lincoln Ave to Westmore Ave), and James St (Lincoln Ave to Westmore Ave). The streets are in need of rehabilitation to prevent deterioration to the point of where reconstruction is needed.; and

WHEREAS, funding for the construction of the 2027 CDBG Northwest Area Street Improvement Project may be available under the Community Development Block Grant (CDBG) Program; and

WHEREAS, application provisions for grant funding under the Community Development Block Grant Program require that the Village approve a resolution authorizing the submittal of the grant funding application; and

WHEREAS, the Village of Villa Park President and Board of Trustees have determined that it is in the best interests of the citizens of the Village to prepare and submit an application for grant funding for the construction of the 2027 CDBG Northwest Area Street Improvement Project under the Community Development Block Grant Program.

NOW THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Villa Park, DuPage County, State of Illinois, as follows:

Section 1: That the facts and statements contained in the preamble clauses to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

Section 2: That the Village Manager is hereby authorized to submit an application, and all other necessary documents, to the DuPage County Community Development Commission for Community Development Block Grant Program funding for construction of the 2027 CDBG Northwest Area Street Improvement Project.

Section 3: The officials, officers, employees, and attorneys of the Village are hereby authorized to take such further actions as are necessary to carry out the intent and purpose of this

Resolution and the Agreement.

Section 4: If any section, paragraph, clause or provision of this Resolution shall be held invalid, the invalidity thereof shall not affect any of the other provisions of this Resolution.

Section 5: All ordinances, resolutions, motions, or orders in conflict with this Resolution are hereby repealed to the extent of such conflict.

Section 6: This Resolution shall be in full force and effect immediately from and after its passage and approval according to law.

ADOPTED this ____ day of _____ 2026, pursuant to a roll call vote as follows:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED by me this ____ day of _____ 2024.

_____
Kevin Patrick President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this ____ day of _____ 2026.

_____
Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

B. Letter of Intent - Project Information

Case Id: 30465
Name: Village of Villa Park - 2027
Address: 20 S. Ardmore Avenue, Villa Park, IL 60181--2696

Completed by engineering@invillapark.com on 8/26/2026 11:43 AM

B. Letter of Intent - Project Information

Please provide the following information.

B.1. Name of Project:
2027 CDBG Northwest Area Street Improvement Project

B.2. Please select the type of project:
Neighborhood Infrastructure & Facilities

B.3. Total Project Cost of Activities Funded (in whole or in part) by this:
$750,000.00

B.4. Application: Total of CDBG Funding Requested to Support These Activities:
$600,000.00

B.5. Location of Project (street location(s) or property address):
Lincoln Avenue (Sunset Avenue to North Avenue), Roy Drive (Lincoln Avenue to Ridge Road), Ridge Road (Lincoln Avenue to Westmore Avenue), and James Street (Lincoln Avenue to Westmore Avenue).

A project location map identifying BOTH the location of improvements AND service area must be uploaded. The map must identify residential and non-residential properties.

☑ **Project Map - A project location map identifying residential and non-residential properties, the exact location of proposed improvements and service area of the proposed project must be uploaded *Required**
Aerial Exhibit II.pdf

B.6. Provide the Census Tract(s) and Block Group(s) information of the proposed project location and service area:

Census Tract	Block Group
843301	3

Low- and Moderate-Income data maps are available on the County's CDC website.
HUD-approved income survey methodology is available on the County's CDC website.

DuPage County is an "exception grantee" as determined by HUD. The exception threshold is based on the 2016-2020 American Community Survey (ACS), which for DuPage County is 43.40% per the most recently available HUD data, as of FY2025. This percentage represents the minimum percentage of low- and moderate-income persons that must reside in the service area of an area benefit activity for the activity to be assisted with CDBG funds. Per CDC policy, applicants are strongly encouraged to apply for an eligible area which is at least 5% higher than the minimum exception threshold in the event the threshold increases before the project has a funding commitment.

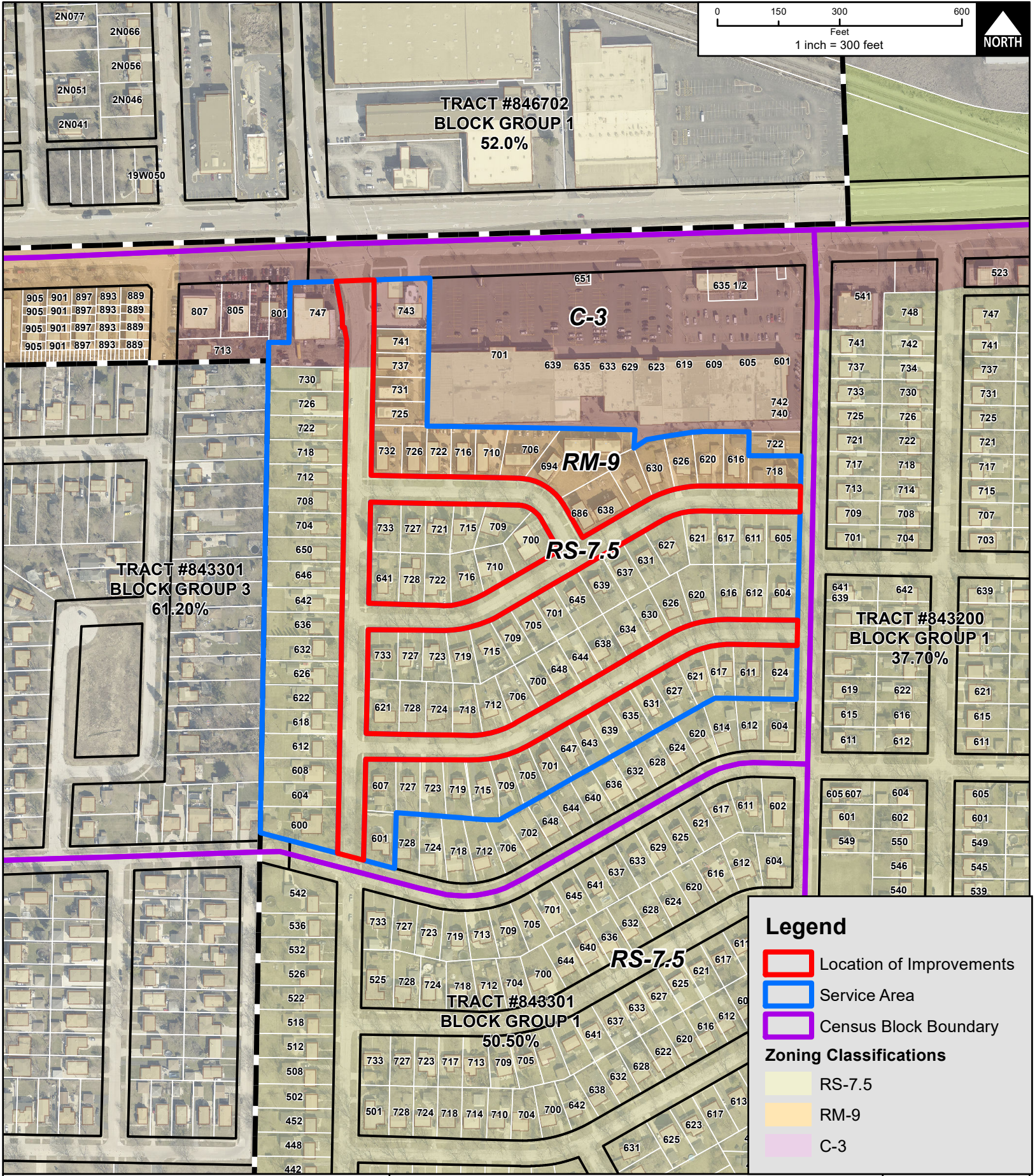
B.7. Please identify the primary composition of the service area:
Infrastructure projects must benefit areas that are primarily residential and at least 43.40% low- to moderate-income. Moderate-income persons should not be benefited to the exclusion of very low-income persons.
Primarily Single-Family Properties

B.9.

Project Abstract:

Briefly describe the entire scope of activities within the proposed project. Include the specific project area location (i.e., entire streets, specific sections of streets, address of public facility in need of accessibility improvements, public park address, etc.), the service area which must be primarily residential, the full scope of the project, and specific activities for which you are requesting CDBG funds within the application.

The 2027 CDBG Northwest Area Street Improvement Project will consist of roadway improvements on Lincoln Avenue (Sunset Avenue to North Avenue), Roy Drive (Lincoln Avenue to Ridge Road), Ridge Road (Lincoln Avenue to Westmore Avenue), and James Street (Lincoln Avenue to Westmore Avenue). The improvements will include roadway rehabilitation, curb and gutter repairs, driveway repairs, sidewalk repairs, ADA improvements at all crosswalks, structure adjustments and all required landscape restoration. This project is located in a primarily residential area within US Census Tract Block Group 843301-3, consisting of 61.2% low to moderate income households. The service area consists of mostly single family homes with some multi-family homes along Roy Drive. Residents will benefit from improved accessibility due to sidewalk repairs, improved ADA ramps and pavement markings at crosswalks, and an extended service life of the roadways. The requested CDBG funds will be used for the construction costs associated with the roadway improvements listed above.



CLIENT:

VILLAGE OF VILLA PARK

TITLE:

AERIAL EXHIBIT

2027 CDBG NOTHWEST AREA STREET IMPROVEMENT PROJECT

PROJ. NO.	140092.00025
DATE:	08/26/2026
SHEET	1 OF 1
DRAWING NO.	EXH

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500

DSGN.			SCALE:	1:3,600
DWN.	DRW		AUTHOR:	DWALTERS
CHKD.			PLOT DATE:	8/26/2026
FILE:	Aerial Exhibit II			

Path: N:\VILLAPARK\140092.00025\GIS\Exhibits\Aerial Exhibit II.mxd

MEMORANDUM

TO: Village Board of Trustees

FROM: Kevin Mantels, Village Engineer

DATE: September 14, 2026

SUBJECT: A Resolution of the Village of Villa Park, DuPage County, to approve the Phase II Engineering Agreement - Supplement with Primera, of Lisle, Illinois, in the amount of $49,509.00.

RECOMMENDED ACTION:
The following Resolution would authorize the Village Manager to enter into an engineering services agreement with Primera Engineers, Ltd., of Lisle, Illinois, for design engineering — supplement of the Yale Avenue Improvement Project (Jackson to Madison) in an amount not to exceed $49,509.00.00. The Yale avenue Improvement Project (Jackson to Madison) proposes a new storm and street improvements.

BACKGROUND:
The project consists of street improvements of Yale Avenue from Jackson Street to Madison Street and a new storm sewer on Yale from Jackson Street to Adams Street and from Madison Street to Monroe Street. The scope of work for the project includes pavement reconstruction, sidewalk removal and replacement, curb and gutter removal and replacement, minor water and sanitary work, and restoration.

The Village Board approved a preliminary and design engineering agreement on June 13, 2022 in an amount not to exceed $110,590.00. A partial design was completed in December 2022. However, the project was temporarily paused as the Village prioritized the Sugar Creek Watershed Drainage Improvement Project, which had time-sensitive grants for construction. With the final phase of the Sugar Creek Watershed Drainage Improvement Project, known as the Jackson Area Improvement Project, completed in early 2026, the Village is moving forward with completing the design for the Yale Avenue Improvement Project (Jackson to Madison). The project is tentatively scheduled to be constructed in 2027.

DISCUSSION:
The design engineering services will utilize funds from the Street Improvement Fund: 60-603-529203

Resolution No. _____

Resolution of the Village of Villa Park, DuPage County, Illinois, Approving an Engineering Services Agreement with Primera Engineers, Ltd., of Lisle, Illinois, for Design Engineering – Supplement of the Yale Avenue Improvement Project (Jackson to Madison) Project in an Amount Not to Exceed $49,509.00

WHEREAS, the Village of Villa Park, DuPage County, Illinois (the "*Village*") is a duly organized and validly existing non home-rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and,

WHEREAS, on June 13, 2022, the President and Board of Trustees of the Village approved an Engineering Service Agreement with Primera Engineers, Ltd. Of Lisle, Illinois for Phase I and Phase II Design Engineering of the Yale Avenue Improvement Project (Jackson to Madison) in an Amount Not to exceed $110,590.00; and

WHEREAS, due to additional design services requested by the Village to complete the design that was paused due to construction funding availability and higher priority capital improvement projects, Primera Engineers Ltd. will exceed the contracts original funds and is entitled to additional compensation for said services; and

WHEREAS, Primera Engineers, Ltd., has submitted a proposal to conduct professional design engineering – supplement pursuant to the terms and conditions of the written proposal (the "*Services Agreement*") for an additional $49,509.00 in compensation for necessary additional services; and,

WHEREAS, the President and Board of Trustees of the Village (the "*Corporate Authorities*") have reviewed Primera Engineers Ltd.'s proposed engineering agreement (the "*Services Agreement*"), and believe it is in the best interests of the Village and its residents to enter into the Services Agreement attached hereto, in order to facilitate the Design Engineering – Supplement of the Yale Avenue Improvement Project (Jackson to Madison).

NOW, THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

Section 1. That the recitals in the preambles to this Resolution are incorporated into this Section 1 as if fully set forth herein.

Section 2. That the Services Agreement between the Village of Villa Park and Primera Engineers, Ltd. an Illinois corporation, attached hereto and made a part hereof, is hereby approved and the Village President, Village Clerk, and Village Manager are hereby authorized to execute and deliver said Agreement and undertake any and all actions as may be required to implement its terms on behalf of the Village.

Section 3. This Resolution shall be in full force and effect immediately from and after its passage and approval according to law.

Passed this 14 day of September, 2026, pursuant to a roll call vote as follow:

AYES:

NAYS:

ABSENT:

Approved this 14 day of September, 2026.

_____
Village President

Attest:

_____
Village Clerk

AGREEMENT
between
THE VILLAGE OF VILLA PARK, ILLINOIS
and
PRIMERA ENGINEERS, LTD.
for the furnishing of
PROFESSIONAL DESIGN ENGINEERING SERVICES - SUPPLEMENT
YALE AVENUE IMPORVEMENT PROJECT (JACKSON TO MADISON)

THIS AGREEMENT, made and entered into by and between the VILLAGE OF VILLA PARK, ILLINOIS, hereinafter referred to as the "VILLAGE," and PRIMERA ENGINEERS, LTD hereinafter referred to as the "ENGINEER," has been prepared and executed to provide for professional design engineering services - supplement for the YALE AVENUE IMPROVEMENT PROJECT (JACKSON TO MADISON) hereinafter referred to as the "PROJECT".

This agreement is hereinafter referred to as the "AGREEMENT". The work associated with this AGREEMENT is as described below as Engineering Services.

In consideration of these premises and of the mutual covenants herein set forth,

A. THE ENGINEER AGREES:

1. The ENGINEER shall serve as the VILLAGE'S professional design engineering consultant in those phases of the PROJECT to which this AGREEMENT applies. The ENGINEER shall perform the Engineering Services described in its proposal dated July 13, 2026, entitled "Yale Avenue Improvement Project (Jackson to Madison – Design Engineering Services Supplement – Villa Park, Illinois", attached hereto as Exhibit A and made a part hereof.

2. Additional services beyond the scope of the Engineering Services above-described, requested in writing by the VILLAGE, shall be performed by the ENGINEER in accordance with the hourly rate as agreed upon in writing between the VILLAGE and ENGINEER, and approved by the VILLAGE Board of Trustees.

3. The ENGINEER will perform services under this AGREEMENT in accordance with generally accepted and currently recognized engineering practices and principles, and in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the Chicagoland area. Notwithstanding anything to the contrary which may be contained in this AGREEMENT or any other material incorporated herein by reference, or in any agreement between the Village and any other party concerning the PROJECT, the ENGINEER shall not have control or be in charge of, and shall not be responsible for the means, methods, techniques, sequences or procedures of construction, or the safety, safety precautions or

programs of the construction contractor, other contractors or subcontractors performing any of the work or providing any of the services on the PROJECT. Any provision which purports to amend this provision shall be without effect unless it contains a reference that the content of this condition is expressly amended for the purposes described in such amendment and is signed by the ENGINEER.

4. The ENGINEER shall procure and maintain for the duration of its AGREEMENT, and for three years thereafter, insurance against errors and omissions and claims for injuries to its employees which may arise from, or are in conjunction with, the performance of the work hereunder by the ENGINEER, its agents, representatives, employees, or subcontractors.

a. Minimum Scope of Insurance

Coverage shall be at least as broad as:

(1) Insurance Services Office Commercial General Liability occurrence form CG 0001 (Ed. 11/85) or its equivalent;

(2) Insurance Services Office form number CA 0001 (ed. 1/87) covering Automobile Liability, symbol 01 "any auto" and endorsement CA 0029 (Ed. 12/88) changes in Business Auto and Truckers coverage forms - Insured Contract or ISO form number CA 0001 (Ed. 12/90) or their equivalent;

(3) Professional Liability/Malpractice Liability policy; and

(4) Worker's Compensation as required by the Labor Code of the State of Illinois and Employers' Liability insurance.

b. Minimum Limits of Insurance

The ENGINEER shall maintain limits no less than:

(1) Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, and property damage. The general aggregate shall be $2,000,000 per project.

(2) Automobile Liability: $1,000,000 combined single limit per accident or bodily injury and property damage.

(3) Professional Liability: $2,000,000 per claim for errors and omissions, professional/malpractice liability.

(4) Workers' Compensation and Employers' Liability: Workers' Compensation insurance within statutory limits, and Employers' Liability limits of $500,000 per accident.

(5) Umbrella Liability: $2,000,000 combined single limit per occurrence for bodily injury, personal injury, and property damage. Minimum Aggregate shall be no less than $2,000,000 per person, per aggregate.

c. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the VILLAGE. At the option of the VILLAGE, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the VILLAGE, its officials, employees and volunteers; or the ENGINEER shall procure a bond guaranteeing payment of losses and related investigation, claim administration and defense expenses.

d. Other Insurance Provisions

The policies are to contain, or be endorsed to contain the following provisions:

(1) General Liability and Automobile Liability Coverages

(a) The VILLAGE, its officials, employees and volunteers are to be covered as additional insured as respects: liability arising out of activities performed by or on behalf of the ENGINEER; or automobiles owned, leased, hired or borrowed by the ENGINEER. The coverage shall contain no special limitations on the scope of protection afforded to the VILLAGE, its officials, employees, and volunteers.

(b) The ENGINEER's insurance coverage shall be primary as respects the additional insureds. Any insurance or self-insurance maintained by the VILLAGE, its officials, agents, employees, and volunteers shall be in excess of the ENGINEER's insurance and shall not contribute with it.

(c) Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the VILLAGE, its officials, agents, employees, and volunteers.

(d) The ENGINEER's insurance shall contain a severability of interests clause or language stating

that the ENGINEER's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

(2) All Coverages

For each insurance policy required by this Agreement, ENGINEER shall provide thirty (30) days' prior written notice to the VILLAGE of any cancellation or reduction in coverage or in limits.

e. Acceptability of Insurers

The insurance carrier used by the ENGINEER shall have a minimum insurance rating of A+ according to the AM Best Insurance Rating Schedule and licensed to do business in the State of Illinois.

f. Verification of Coverage

The ENGINEER shall furnish the VILLAGE with certificates of insurance and with copies of endorsements affecting coverage. The certificates and endorsement for the insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements may be on forms provided by the insurance carrier and are to be received and approved by the VILLAGE before any work commences. The VILLAGE reserves the right to request full copies of the insurance policies.

5. To the fullest extent permitted by law, the ENGINEER shall indemnify and hold harmless the VILLAGE, its officials, employees and volunteers against injuries, deaths, loss, damages, claims, suits, liabilities, judgments, cost and expenses, which may in anyway accrue against the VILLAGE, its officials, employees and volunteers, to the extent caused by the ENGINEER'S negligent acts, errors or omissions in the performance of this work by the ENGINEER, its employees, or subcontractors, except that arising out of to the extent caused by the negligence or willful act of the VILLAGE, its officials, employees and volunteers. The ENGINEER shall, at its own expense, appear, defend and pay reasonable charges of attorneys and reasonable costs and other expenses arising therefore or incurred in conjunction therewith, and, if any judgment shall be rendered against the VILLAGE, its officials, employees and volunteers, in any such action, the ENGINEER shall, at its own expense, satisfy and discharge the same. Nothing contained herein shall be construed as prohibiting the VILLAGE, its officials, employees and volunteers from defending, through the selection and use of their own agents, attorneys and experts, any injuries, deaths, loss, damages, claims, suits, liabilities,

and judgments brought against them. The VILLAGE'S participation in its defense shall not remove the ENGINEER'S duty to indemnify, defend and hold harmless the VILLAGE as set forth herein. Notwithstanding the foregoing, for any and all injuries, deaths, loss, damages, claims, suits, liabilities, judgements, cost and expenses based on ENGINEER'S professional negligence, ENGINEER shall indemnify and hold harmless the VILLAGE to the same extent of ENGINEER'S indemnity obligation herein but shall have no upfront duty to defend the VILLAGE. However, ENGINEER shall reimburse defense cost of the VILLAGE. The indemnity obligations provided under this section shall apply in the event of a settlement of claims or to the extent such injuries, deaths, loss, damages, claims, suits, liabilities, judgements, cost and expenses are determined by a court of competent jurisdiction to have been caused by the negligence or willful misconduct of ENGINEER.

6. Any insurance policies required by this AGREEMENT, or otherwise provided by the ENGINEER, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the VILLAGE, its officials, agents, employees and volunteers and herein provided.

7. The ENGINEER represents and warrants to the VILLAGE that neither it nor any of its principals, shareholders, members, partners, or affiliates, as applicable, is a person or entity named as a Specially Designated National and Blocked Person (as defined in Presidential Executive Order 13224) and that it is not acting, directly or indirectly, for or on behalf of a Specially Designated National and Blocked Person. The ENGINEER further represents and warrants to the VILLAGE that the ENGINEER and its principals, shareholders, members, partners, or affiliates, as applicable, are not, directly or indirectly, engaged in, and are not facilitating, the transactions contemplated by this Agreement on behalf of any person or entity named as a Specially Designated National and Blocked Person. The ENGINEER hereby agrees to defend, indemnify and hold harmless the VILLAGE, the corporate authorities, and all VILLAGE elected or appointed officials, officers, employees, agents, representatives, engineers, and attorneys, from and against any and all claims, damages, losses, risks, liabilities, and expenses (including reasonable attorneys' fees and costs) arising from and related to any breach of the foregoing representations and warranties.

8. The ENGINEER will comply with all applicable federal and Illinois statutes, and local ordinances of the VILLAGE and shall operate within and uphold the ordinances, rules and regulations of the VILLAGE while engaged in services herein described.

9. The VILLAGE reserves the right by written change order or amendment to make changes in requirements, amount of work, or engineering time schedule adjustments, and the ENGINEER and VILLAGE shall negotiate appropriate adjustments acceptable to both parties to accommodate such changes.

10. The VILLAGE may, at any time, by written order to the ENGINEER (Suspension of Services Order) require the ENGINEER to stop all, or any part, of the

services required by this AGREEMENT. Upon receipt of such an order, the ENGINEER shall immediately comply with its terms and take all reasonable steps to minimize the costs associated with the services affected by such order. The VILLAGE, however, shall pay all costs incurred by the suspension, including all costs necessary to maintain continuity and for the resumptions of the services upon expiration of the Suspension of Services Order. The ENGINEER will not be obligated to provide the same personnel employed prior to suspension, when the services are resumed, in the event that the period of suspension is greater than thirty (30) days.

11. This AGREEMENT may be terminated by the VILLAGE, upon seven (7) days' written notice to the ENGINEER, at its last known post office address. Provided that, should this AGREEMENT be terminated by the VILLAGE, the ENGINEER shall be paid for any services completed and any services partially completed. All field notes, test records, drawings, and reports completed or partially completed at the time of termination shall become the property of, and made available to, the VILLAGE. Within five (5) business days after notification and request, the ENGINEER shall deliver to the successor VILLAGE Engineer all property, books and effects of every description in its possession belonging to the VILLAGE and pertaining to the office of VILLAGE Engineer.

12. This AGREEMENT may be terminated by the VILLAGE upon written notice to the ENGINEER, at its last known post office address, upon the occurrence of any one or more of the following events, without cause and without prejudice to any other right or remedy:

a. If the ENGINEER commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, United States Code), as now or hereinafter in effect, or if the ENGINEER takes any equivalent or similar action by filing a petition or otherwise under any other federal or state law in effect at such time relating to bankruptcy or insolvency;

b. If a petition is filed against the ENGINEER under any chapter of the Bankruptcy Code as now or hereafter in effect at the time of filing, or if a petition is filed seeking any such equivalent or similar relief against the ENGINEER under any other federal or state law in effect at the time relating to bankruptcy or insolvency.

c. If the ENGINEER makes a general assignment for the benefit of creditors;

d. If a trustee, receiver, custodian or agent of the ENGINEER is appointed under applicable law or under contract, whose appointment or authority to take charge of property of the ENGINEER is for the purpose of enforcing a Lien against such property or for the purpose of general administration of such property for the benefit of the ENGINEER's creditors;

e. If the ENGINEER admits in writing an inability to pay its debts generally as they become due.

13. Upon termination, the ENGINEER shall deliver to the VILLAGE, copies of partially completed drawings, specifications, partial and completed estimates, and data, if any, from investigations and observations, with the understanding that all such material becomes the property of the VILLAGE. In such case, the ENGINEER shall be paid for all services and any expense sustained, less all costs incurred by the VILLAGE, to have the services performed which were to have been performed by the ENGINEER.

14. The ENGINEER is qualified technically and is conversant with the policies applicable to the performance of design engineering and that sufficient, properly trained, and experienced personnel will be retained to perform the services enumerated herein.

15 The ENGINEER will maintain all books, documents, papers, accounting records, and other evidence pertaining to its costs incurred and to make such materials available at the ENGINEER's office at all reasonable times during the AGREEMENT period and retain such records for a period of three (3) years from the date of final payment under this AGREEMENT.

16 The ENGINEER warrants that he has not employed or retained any company or person, other than an employee working solely for the ENGINEER, to secure this AGREEMENT, and that he has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts, or any other consideration, contingent upon or resulting from the award or making of this AGREEMENT. For breach or violation of this warranty, the VILLAGE shall have the right to annul this AGREEMENT without liability, or, in its discretion, to deduct from the AGREEMENT price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

17. This AGREEMENT shall be deemed to be exclusive between the VILLAGE and the ENGINEER. This AGREEMENT shall not be assigned by the ENGINEER without first obtaining permission in writing from the VILLAGE.

18. All books, papers, notes, records, lists, data, files, forms, reports, accounts, documents, manuals, handbooks, instructions, computer programs, computer software, computer disks and diskettes, magnetic media, electronic files, printouts, backups, and computer databases created or modified by the ENGINEER relating in any manner to the work performed by the ENGINEER or by anyone else and used by the ENGINEER in performance of this services under this AGREEMENT (the "Work") shall be a "work made for hire" as defined by the laws of the United States regarding copyrights.

19. The ENGINEER hereby assigns to the VILLAGE and its successors and assigns all of its right, title, interest and ownership in the Work, including, but not limited to, copyrights, trademarks, patents, and trade secret rights and the rights to secure any

renewals, reissues, and extensions thereof. The ENGINEER grants permission to the VILLAGE to register the copyright and other rights in the Work in the VILLAGE'S name. The ENGINEER shall give the VILLAGE or any other person designated by the VILLAGE all assistance reasonably necessary to perfect its rights under this AGREEMENT and to sign such applications, documents, assignment forms and other papers as the VILLAGE requests from time to time to further confirm this assignment. The ENGINEER further grants to the VILLAGE full, complete and exclusive ownership of the Work. The ENGINEER shall not use the Work for the benefit of anyone other than the VILLAGE, without the VILLAGE'S prior written permission. Upon completion of the Work or other termination of this AGREEMENT the ENGINEER shall deliver to the VILLAGE all copies of any and all materials relating or pertaining to this AGREEMENT.

20. The drawings, specifications, reports, and any other PROJECT documents prepared by the ENGINEER in connection with any or all of the services furnished hereunder shall be delivered to the VILLAGE for the use of the VILLAGE. The ENGINEER shall have the right to retain originals of all PROJECT documents and drawings for its files. Furthermore, it is understood and agreed that the PROJECT documents such as, but not limited to, reports, calculations, drawings, and specifications prepared for the PROJECT, whether in hard copy or machine readable form, are instruments of professional service intended for one-time use. The VILLAGE may retain copies, including copies stored on magnetic tape or disk, for information and reference in connection with the occupancy and use of the PROJECT. Any reuse of PROJECT documents, without the express written consent of the ENGINEER, shall be at VILLAGE'S sole risk; and the VILLAGE shall indemnify and hold harmless the ENGINEER from all claims, damages, losses, and expenses including attorney's fees arising out of or resulting therefrom. The ENGINEER shall have the right to include representations of the design of the PROJECT, including photographs of the exterior and interior, among the ENGINEER'S promotional and professional materials. The ENGINEER's materials shall not include the VILLAGE'S confidential and proprietary information.

21. The ENGINEER will not at any time, either directly or indirectly, disclose, use or communicate or attempt to disclose, use or communicate to any person, firm, or corporation any confidential information or any other information concerning the business, services, finances or operations of the VILLAGE except as expressly authorized by the VILLAGE. The ENGINEER shall treat such information at all times as confidential. The ENGINEER acknowledges that each of the following can contain confidential information of the VILLAGE and that the disclosure of any of the following by the ENGINEER without the VILLAGE'S express authorization would be harmful and damaging to the VILLAGE'S interests:

a. Compilations of resident names and addresses, resident lists, resident payment histories, resident information reports, any other resident information, computer programs, computer software, printouts, backups,

computer disks and diskettes, and computer databases and which are not otherwise known to the public.

b. All information relating to the Engineering Services being performed by the ENGINEER under this AGREEMENT, regardless of its type or form and which are not otherwise known to the public.

c. Ideas, concepts, designs and plans which are specifically involved with the Engineering Services being performed by the ENGINEER under this AGREEMENT which are created, designed, enhanced by the ENGINEER and which are not otherwise known to the public.

d. Financial information and police records.

This itemization of confidential information is not exclusive; there may be other information that is included within this covenant of confidentiality. This information is confidential whether or not it is expressed on paper, disk, diskette, magnetic media, optical media, monitor, screen, or any other medium or form of expression. The phrase "directly or indirectly" includes, but is not limited to, acting through ENGINEER'S wife, children, parents, brothers, sisters, or any other relatives, friends, partners, trustees, agents or associates.

22. All books, papers, records, lists, files, forms, reports, accounts, documents, manuals, handbooks, instructions, computer programs, computer software, computer disks and diskettes, printouts, backups, and computer databases relating in any manner to the VILLAGE'S business, services, programs, software or residents, whether prepared by the ENGINEER or anyone else, are the exclusive property of the VILLAGE. In addition, all papers, notes, data, reference material, documentation, programs, diskettes (demonstration or otherwise), magnetic media, optical media, printouts, backups, and all other media and forms of expression that in any way include, incorporate or reflect any confidential information of the VILLAGE (as defined above) are the exclusive property of the VILLAGE. The ENGINEER shall immediately return said items to the VILLAGE upon termination of the ENGINEER's engagement or earlier at the VILLAGE'S request at any time.

23. In the event of breach of the confidentiality provisions of this AGREEMENT, it shall be conclusively presumed that irreparable injury would result to the VILLAGE and there would be no adequate remedy at law. The VILLAGE shall be entitled to obtain temporary and permanent injunctions, without bond and without proving damages, to enforce this AGREEMENT. The VILLAGE is entitled to damages for any breach of the injunction, including, but not limited to, compensatory, incidental, consequential, exemplary and punitive damages. The confidentiality provisions of this AGREEMENT survive the termination or performance of this AGREEMENT.

24. The ENGINEER will comply with all laws, codes, ordinances and regulations which are in effect as of the date of this AGREEMENT.

B. THE VILLAGE AGREES:

1. The VILLAGE shall pay the ENGINEER, for the Engineering Services above-described, a fee not to exceed Forty-Nine Thousand Five Hundred Nine and 00/100 ($49,509.00) Dollars.

2. For all direct expenses totaling more than Twenty-Five Dollars ($25.00), the ENGINEER shall provide copies of receipts from suppliers of expendable materials. Invoices for reimbursable expenses shall be provided no later than sixty (60) days after the expense is incurred by the ENGINEER, and if such invoices are not provided within sixty (60) days, the VILLAGE shall not be required to pay such reimbursable expenses.

3. The ENGINEER shall indicate to the VILLAGE the information needed for rendering of the services of this AGREEMENT. The VILLAGE shall provide to the ENGINEER such information as is available to the VILLAGE and the VILLAGE'S consultants and contractors, and the ENGINEER shall be entitled to rely upon the accuracy and completeness thereof.

4. Payment of ENGINEER'S Fee. The VILLAGE, for and in consideration of the rendering of the Engineering Services enumerated herein shall pay to the ENGINEER for rendering such services the fee hereinbefore established in the following manner:

a. Upon receipt of monthly statements from the ENGINEER and the approval thereof by the VILLAGE, payments for the work performed shall be due and payable to the ENGINEER within thirty (30) days after approval by the VILLAGE.

b. Payments shall be made in accordance with the Local Government Prompt Payment Act (50 ILCS 505/1 *et seq.*).

5. This AGREEMENT may be terminated by the ENGINEER, upon thirty (30) days' written notice to the VILLAGE should the VILLAGE fail substantially to perform in accordance with the terms of this AGREEMENT through no fault of the ENGINEER. Upon such termination, the ENGINEER shall make available to the VILLAGE, copies of partially completed drawings, specifications, partial and completed estimates, and data, if any, from investigations and observations, with the understanding that all such material becomes the property of the VILLAGE. The ENGINEER shall be paid promptly for all services provided to the date of termination.

C. IT IS MUTUALLY AGREED:

1. The ENGINEER is an independent contractor in the performance of this AGREEMENT, and it is understood that the parties have not entered into any joint venture or partnership with the other. The ENGINEER shall not be considered to be the agent of the VILLAGE. Nothing contained in this AGREEMENT shall create a contractual relationship with a cause of action in favor of a third party against either the VILLAGE or ENGINEER.

2. Each party to this AGREEMENT shall designate one or more persons to act with authority on its behalf with respect to appropriate aspects of the PROJECT. The persons designated shall review and respond promptly to all communications received from the other party.

3. Written notices between the VILLAGE and the ENGINEER shall be deemed sufficiently given after being placed in the United States mail, registered or certified, postage pre-paid, addressed to the appropriate party as follows:

a. If to the VILLAGE:

VILLAGE OF VILLA PARK
20 S. Ardmore Avenue
Villa Park, Illinois 60181
Attn: Village Manager

b. If to the ENGINEER:

Primera Engineers, Ltd.
701 Warrenville Road, Suite 100
Lisle, Illinois 60532
Attn: Rob Deming, P.E., LEED Green Associate
VP / Transportation Department Manager
with a copy to Stacie Dovalovsky, Sr. Vice President

c. Either party may change its mailing address by giving written notice to the other party as provided above. Whenever this AGREEMENT requires one party to give the other notice, such notice shall be given only in the form and to the addresses described in this paragraph.

4. This AGREEMENT represents the entire and integrated contract between the parties and supersedes all prior negotiations, representations or understandings, whether written or oral. This AGREEMENT may only be amended by written instrument executed by authorized signatories of the VILLAGE and the ENGINEER.

5. The terms of this AGREEMENT shall be binding upon and inure to the benefit of the parties and their respective successors.

6. The waiver of one party of any breach of this AGREEMENT or the failure of one party to enforce at any time, or for any period of time, any of the provisions hereof, shall be limited to the particular instance, shall not operate or be deemed to waive any future breaches of this AGREEMENT and shall not be construed to be a waiver of any provision, except for the particular instance.

7. If any term, covenant, or condition of this AGREEMENT or the application thereof to any person or circumstance shall, to any extent, be invalid or unenforceable, the remainder of this contract shall not be affected thereby; and each term, covenant or condition of this AGREEMENT shall be valid and shall be enforced to the fullest extent permitted by law.

8. This AGREEMENT shall be construed under and governed by the laws of the State of Illinois, and all actions brought to enforce the dispute resolution provisions of this AGREEMENT shall be so brought in the Circuit Court of DuPage County, State of Illinois.

9. This AGREEMENT may be signed in counterparts, each of which shall be deemed to be an original, but all of which, taken together, shall constitute one and the same instrument.

10. This AGREEMENT shall become effective only after an appropriation therefor has been made. The term of this AGREEMENT shall be for one year following the effective date of the appropriation.

D. CERTIFICATION OF ENGINEER

1. The ENGINEER certifies that the ENGINEER, its shareholders holding more than five percent (5%) of the outstanding shares of the ENGINEER, its officers and directors are:

a. not delinquent in the payment of taxes to the Illinois Department of Revenue in accordance with 65 ILCS 5/11-42.1-1;

b. not barred from contracting as a result of a violation of either Section 33E-3 (bid rigging) or Section 33E-4 (bid rotating) of the Criminal Code of 1961 (720 ILCS 5/33E-3 and 5/33E-4);

c. not in default, as defined in 5 ILCS 385/2, on an educational loan, as defined in 5 ILCS 385/1;

d. in compliance with the Veterans Preference Act (330 ILCS 55/0.01 *et seq*.);

e. in compliance with equal employment opportunities and that during the performance of the AGREEMENT, the ENGINEER shall:

(1) Not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

(2) If it hires additional employees in order to perform this AGREEMENT or any portion hereof, it will determine the availability (in accordance with the Illinois Department of Human Right's Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

(3) In all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service.

(4) Send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the ENGINEER's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the ENGINEER in its efforts to comply with such Act and Rules and Regulations, the ENGINEER will promptly so notify the Illinois Department of Human Rights; and the VILLAGE and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

(5) Submit reports as required by the Illinois Department of Human Rights, Rules and Regulations, furnish all relevant information as may from time to time be requested by the

Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.

(6) Permit access to all relevant books, records, accounts, and work sites by personnel of the contracting agency and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.

(7) Not maintain or provide for its employees any segregated facilities at any of its establishments, and not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. As used in this section, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis or race, creed, color, or national origin because of habit, local custom, or otherwise.

(8) ENGINEER (except where it has obtained identical certifications from proposed Subcontractors and material suppliers for specific time periods), obtain certifications in compliance with this subparagraph from proposed subcontractors or material suppliers prior to the award of a subcontract or the consummation of material supply agreements, exceeding $10,000.00 which are not exempt from the provisions of the Equal Opportunity clause, and that ENGINEER will retain such certifications in its files.

(9) In the event of the ENGINEER's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Act or the Rules and Regulations of the Department, the ENGINEER may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

f. in compliance with 775 ILCS 5/2-105(A)(4)by having in place and enforcing a written sexual harassment policy.

g. in agreement that in the event of non-compliance with the provisions of this certification relating to equal employment opportunity, the Illinois Human Rights Act or the Illinois Department of Human Rights, Rules and Regulations, the ENGINEER may be declared ineligible for future contracts with the VILLAGE, and this AGREEMENT may be canceled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

h. in compliance with 30 ILCS 580/1 *et seq*. (Drug Free Workplace Act) by providing a drug-free workplace by:

(1) Publishing a statement:

(a) Notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance, including cannabis, is prohibited in the ENGINEER's workplace.

(b) Specifying the actions that will be taken against employees for violations of such prohibition.

(c) Notifying the employee that, as a condition of employment on such AGREEMENT, the employee will:

(i) abide by the terms of the statement; and

(ii) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.

(2) Establishing a drug-free awareness program to inform employees about:

(a) the dangers of drug abuse in the workplace;

(b) the ENGINEER's policy of maintaining a drug-free workplace;

(c) any available drug counseling, rehabilitation, and employee assistance program; and

(d) the penalties that may be imposed upon employees for drug violations.

(3) Making it a requirement to give a copy of the statement required by subparagraph D.1.h.(1) to each employee engaged in the performance of the AGREEMENT, and to post the statement in a prominent place in the workplace.

(4) Notifying the VILLAGE within ten (10) days after receiving notice under Subparagraph D.1.h.(1)(c)(ii) from any employee or otherwise receiving actual notice of such conviction.

(5) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by any employee who is so convicted, as required by 30 ILCS 580/5.

(6) Assisting employees in selecting a course of action in the event drug counseling treatment and rehabilitation is required and indicating that a trained referral team is in place.

(7) Making a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

i in compliance with the Substance Abuse Prevention on Public Works Projects Act (820 ILCS 265/1, *et seq.*), is a party to a collective bargaining agreement dealing with the subject matter of the Substance Abuse Prevention on Public Works Projects Act, or has in place and is enforcing a written program which meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act.

j. not a VILLAGE official, spouse or dependent child of a VILLAGE official, agent on behalf of any VILLAGE official or trust in which a VILLAGE official, the spouse or dependent child of a VILLAGE official.

k. not having solicited any gratuity, discount, entertainment, hospitality, loan, forebearance, or other tangible or intangible item having monetary value including, but not limited to, cash, food and drink, and honoraria for speaking engagements related to or attributable to the government employment or the official position of the employee or officer from the ENGINEER.

l. not having given to any officer or employee of the VILLAGE any gratuity, discount, entertainment, hospitality, loan, forebearance, or other tangible or intangible item having monetary value including, but not limited to, cash, food and drink, and honoraria for speaking engagements related to or attributable to the government employment or the official position of the employee or officer.

m. the ENGINEER acknowledges that, pursuant to the provisions of the Illinois Freedom of Information Act, (5 ILCS 140/1 *et seq.*), documents or records prepared or used in relation to work performed under this AGREEMENT are considered a public record of the VILLAGE; and therefore, the ENGINEER shall review its records and promptly produce to the VILLAGE any records in the ENGINEER'S possession which the VILLAGE requires in order to properly respond to a request made pursuant to the Illinois Freedom of Information Act (5 ILCS 140/1 *et seq.*), and the ENGINEER shall produce to the VILLAGE such records within three (3) business days of a request for such records from the VILLAGE at no additional cost to the VILLAGE.

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed, by their duly authorized officers as of the dates below indicated.

Executed by the VILLAGE, this ____ day of _____, 2026.

VILLAGE OF VILLA PARK
20 S. Ardmore Avenue
Villa Park, Illinois 60181

ATTEST:

By _____
Kevin Patrick, Village President

By _____
Rolf Laukant, Village Clerk

Executed by the ENGINEER, this 27 day of August, 2026.

PRIMERA ENGINEERS, LTD.
701 Warrenville Road, Suite 100
Lisle, Illinois 60532

By: Stacie J Dovalovsky Digitally signed by Stacie Dovalovsky DN: cn=Stacie Dovalovsky, c=US, email=sdovalovsky@primeraeng.com Date: 2026.08.27 09:12:59 -05'00'

Stacie Dovalovsky, Sr. Vice President

EXHIBIT A

Proposal Dated July 13, 2026

Yale Avenue Improvement Project (Jackson to Madison) – Design Engineering Services Supplement – Villa Park, Illinois

July 13, 2026

Mr. Kevin Mantels, P.E.
Village Engineer
Village of Villa Park Engineering Division
kmantels@invillapark.com

Dear Mr. Mantels:

We are pleased to submit this proposal for supplemental Professional Engineering services for the Village of Villa Park related to the S Yale Avenue Improvement Project. This proposal addresses the additional work necessary to complete the project's contract documents in preparation for local letting.

The proposed scope builds upon and incorporates applicable information and design developed under the previous agreement between the Village of Villa Park and Primera Engineers dated June 10, 2022, including Village Purchase Order No. 220030, and is intended solely to facilitate completion of the original project.

Project Understanding

The project includes the rehabilitation of South Yale Avenue from West Jackson Street to West Madison Street. A geotechnical investigation and report prepared by Rubino Engineering Inc dated October 25, 2022, will be reviewed to verify the proposed pavement structural design.

Existing sidewalk conditions along S. Yale Avenue have been evaluated, with select areas identified for removal and replacement. All non-compliant ADA curb ramps within the project limits will be redesigned to meet current ADA standards, including associated crosswalks, signage, and pavement markings.

Selective utility improvements will be incorporated based on previously provided sewer televising information. Water main improvements include lead service replacement, fire hydrant spacing adjusting, and vault repairs. The storm sewer system has been analyzed and indicates the need for additional structures and sewer extensions to improve conveyance and reduce off-site surface water flow, particularly toward the Willowcrest Subdivision.

An optional resident cost-share item will be included in the project quantities (not shown in the plans), consisting of:

- Installation of a 6-inch storm sewer stub

The proposed Scope of Services includes the following:

Scope of Services

The scope of services includes preparation of detailed engineering plans and specifications for bidding purposes, in accordance with all applicable State and Village standards and details. A detailed engineer's estimate of probable construction costs will also be prepared.

Task One: Project Meetings and Coordination

Project meetings and ongoing coordination are essential to address design considerations, maintain project schedule, and ensure alignment with Village staff and stakeholders.

Anticipated meetings under this task include:

- One (1) Design Review Meeting between Primera Engineers and Village of Villa Park prior to advertisement, with attendance by two (2) Primera project team members and appropriate Village staff members.

Task Two: Final (100%) and Advertisement Construction Plans, Specifications, and Cost Estimate

Primera will prepare final (100%) construction plans, specifications, and a detailed engineer's estimate of probable construction costs in accordance with applicable Village, IDOT, ADA, and Standard Specifications for Water and Sewer Construction in Illinois requirements. These documents will be suitable for advertisement, competitive bidding, and construction.

- The Final (100%) plan submittal will include:
  - Cover Sheet (1 sheet)
  - General Notes and Legend (1 sheet)
  - Summary of Quantities (2 sheets)
  - Typical Sections (1 sheet)
  - Alignment, Ties, and Benchmark (2 sheets)
  - Existing Conditions and Removal Plan (3 sheets)
  - Proposed Plan and Profile (3 sheets)
  - Drainage Plan and Profile (3 sheets)
  - Drainage Structure Schedule (1 sheet)
  - Pavement Marking Plan (3 sheets)
  - Erosion Control and Landscaping Plan (3 sheets)
  - ADA Details (4 sheets)
  - Cross Sections (9 sheets)
  - Construction Details (9 sheets)

Primera will assemble a complete specifications packet, including the Village of Villa Park special provisions, IDOT Standard Specifications for Road and Bridge Construction (latest edition), and project specific special provisions. The engineer's cost estimate will be prepared to support budget accuracy and alignment with the Village's expectations.

Task Three: Permitting Coordination

Our team understands that the Village of Villa Park is a Complete Waiver Community; therefore, all stormwater reviews will be performed by the Village rather than DuPage County. Primera will coordinate with the appropriate agencies and obtain the required Illinois Environmental Protection Agency (IEPA) permit. As permit approvals may require extended review times, early coordination will be necessary to minimize potential impacts to the project schedule. A Stormwater Pollution Prevention Plan (SWPPP) will be included in the specifications using the IDOT format (BDE 2342).

Task Four: Bidding Assistance

Primera will provide bidding phase support services, including:

- Coordination and follow-up on outstanding permit requirements, as applicable
- Preparation of responses to bidder inquires and issuance of addenda, as applicable
- Preparation of final contract documents, including incorporation of addenda and permit conditions, for construction
- Review bids received and preparation of a Recommendation of Award for Village consideration

Task Five: Project Management, QA/QC, Administration

Primera's Quality Management Plan (QMP) compliance involves thorough quality assurance reviews. The QMP processes encompass project planning, design input, outputs, review, and verification, with internal processes including standardization, project audits, and deliverable monitoring. Quality control and quality assurance tasks involve quality checks of all deliverables before each milestone.

Project administration and management, estimated for two months, include oversight and monthly billing. This involves document management, monitoring work and budget, preparing monthly invoices and progress reports, general coordination with the Village, and maintaining electronic project correspondence files.

Task Six: Geotechnical Investigation (see attached Rubino proposal)

Rubino Engineering, Inc. will provide environmental and geotechnical services to support the Clean Construction or Demolition Debris (CCDD) certification requirements. Services include field sampling, laboratory testing, regulatory review, certification, and reporting.

Key Services Include:

- Perform three (3) supplemental CCDD soil borings/samples using direct-push drilling methods at depths ranging from 1 to 10 feet below existing grade.
- Conduct field observations, soil logging, and classification of recovered soils. Sample locations will be restored by backfilling and sealing borings upon completion.
- Complete a Potentially Impacted Property (PIP) evaluation and environmental review to support Illinois EPA Form LPC 663 requirements.
- Perform laboratory analyses of soil samples for:
    - Volatile Organic Compounds (VOCs)
    - Semi-Volatile Organic Compounds (SVOCs)
    - RCRA Metals
    - pH
    - TCLP/SPLP metals testing, if warranted by initial results
- Provide professional review by a licensed Professional Engineer and prepare the required LPC 663 CCDD certification documentation.

Deliverables and Schedule

We will submit Plans, Specifications, and Estimate (P,S,&E) for Village review at the 100% completion stage. Comments received on Final plans will be incorporated into the advertisement set. The PS&E is anticipated to be completed by the end of October 2026, with the project to be advertised and awarded at the Village's discretion. Recognizing the time-sensitive nature of this project, Primera is prepared to begin work immediately upon receipt of a written Notice to Proceed. To meet the schedule requirements, we propose the following timeline:

1. Notice to Proceed: July 31, 2026
2. Final (100%) PS&E Submittal: October 9, 2026
3. Bid Advertisement: TBD
4. Bid Opening: TBD
5. Construction NTP: TBD
6. Construction Completion: 12 weeks from Construction NTP

This schedule is based on an assumed Notice to Proceed (NTP) provided no later than July 31, 2026, and formal executed contract to follow the Village Board approval at the July 27, 2026, scheduled meeting. If NTP or executed contract do not meet these assumptions, the project schedule is subject to revision. In addition, Village review comments received after ten (10) business days pose a risk of altering the above schedule.

Assumptions and Exclusions

- Primera will utilize topographic survey prepared by Gentile and Associates, Inc. dated August 1, 2022, no additional survey services are anticipated.
- No structure work is included under this contract.
- One (1) Village review period is assumed following the Final (100%) submittal.
- To maintain project schedule, Village review comments are anticipated within ten (10) working days of receipt of deliverables.
- No additional meetings are anticipated beyond the design review meeting prior to advertisement.
- The project schedule is subject to change based on information and requirements outlined in the project timeline.
- The Village will be responsible for all communications and notifications to residents regarding project impacts.
- Final (100%) submittal deliverables will include plans, specifications, and a construction cost estimate in Excel format.
- The cost estimate will be prepared using the current IDOT Contract Estimate of Cost (BLR 11510) form.
- IDOT standard specifications and pay items will be utilized.
- Phase III (construction observation/engineering) services are not included and may be provided under a separate agreement.
- Primera will provide all design-related deliverables to the Village at project completion, including CAD files in AutoCAD format, as requested.
- All proposed signage will be furnished by the Village of Villa Park.
- Per the Village, the roadway profile will remain unchanged from the Pre-Final submittal; any revisions to the proposed profile will be considered additional services at an extra cost.

701 Warrenville Road, Suite 100
Lisle, Illinois 60532
P 630.324.5100

Compensation

Primera will be compensated on a time and materials, not-to-exceed basis and will provide the described scope of work and service for a fee of: $49,509.00

Primera Engineers will be compensated based on the following Task/Fee breakdown:

Task One: Project Meetings and Coordination	$821.00
Task Two: Final and Advertisement Plans, Specifications, and Cost Estimate	$36,592.00
Task Three: Permitting Coordination	$1,210.00
Task Four: Bidding Assistance	$1,562.00
Task Five: Project Management, QA/QC, Administration	$3,624.00
Task Six: Geotechnical Investigation (By Rubino)	$5,700.00

We appreciate the opportunity to continue supporting and serving the Village of Villa Park on this project. The terms outlined in this proposal shall remain valid for a period of thirty (30) days from the date of issuance, after which Primera reserves the right to revisit the terms herein. Should you have any questions or comments, please do not hesitate to contact Kyle Howeler at 630.324.5140 or myself at 312.242.6414.

Sincerely,

PRIMERA ENGINEERS, Ltd.

Rob Deming, P.E., LEED Green Associate
VP / Transportation Department Manager

Kyle Howeler
Project Lead Engineer

Copy to: RJD, KBH, SLD, CMD

July 10, 2026

To: Kyle Howeler
Primera Engineers
P: 630.324.5100

Re: Proposal – CCDD Testing
Proposed Yale Avenue Improvement Project Supplemental CCDD in Villa Park, Illinois

Proposal No. Q26.376g

Via email: KHoweler@primeraeng.com

Dear Mr. Howeler,

Rubino Engineering, Inc. (Rubino) is pleased to submit the following proposal to provide geotechnical engineering services for the above referenced project. Rubino received a request for proposal from Kyle Howeler of Primera Engineers via email on July 7th, 2026.

PROJECT UNDERSTANDING

Rubino understands that Primera Engineers is planning to aid the Village of Villa Park in the Yale Avenue Improvement Project, which consists of resurfacing/reconstruction, storm sewer, sanitary point repairs, and other flat work. The project limits include Yale Avenue from Jackson Street to Madison Street.

Information received:

- RFP Email from Kyle Howeler of Primera Engineers on July 7th, 2026.

Should any of the information on which this proposal has been based, including as described above, be inconsistent with the planned construction, Rubino requests to be contacted immediately in order to make any necessary changes to this proposal and scope of work.

SCOPE OF SERVICES

The following sections outline the scope of services developed based on the information provided by the client and the information listed above in order to provide CCDD testing for the planned project. The exploration will be performed in general accordance with both the requested proposal information and Rubino's current understanding of the project.

CCDD Soil Sampling

NUMBER SAMPLES FOR CCDD TESTING	TARGET DEPTH (FEET BEG*)	ANALYTICAL TESTS
3	1 – 10	VOC's, SVOC, RCRA, Metals, pH

*BEG = below existing grade

Site Access and Traffic Control

Based on current site topography, surface conditions, and project discussions, Rubino anticipates that the project site will be accessible to track-mounted Geoprobe 7822DT drilling equipment.

Sampling Locations

The approximate proposed sampling locations are shown below. Rubino recommends that the sampling locations be surveyed for elevation by others prior to sampling. If the sampling locations cannot be surveyed, Rubino will locate the locations in the field by measuring distances from known, fixed site features.

Sampling and Soil Classification

Soil classification will be performed by observing the soil obtained in the direct push tubes or from grab samples. A brief log with soil classification as well as other notable information will be documented by Rubino after sampling.

Completion of Samples

Upon completion of sampling, the sample locations will be backfilled with pea gravel or bentonite chips and capped with similar existing material. Some damage to ground surface may result from the drilling operations pathways. Rubino will attempt to minimize such damage, but no restoration other than backfilling the soil test borings is included.

It should be noted that over time, some settlement may occur in the bore hole. If Rubino is requested to return to the site for the purpose of filling any bore holes that may have settled, additional time and material charges may apply.

CCDD TESTING – LPC 663 ONLY

Rubino has obtained a “Potential Impacted Property” (PIP) evaluation of the area near the proposed improvements.

The PIP evaluation indicates further testing is needed for form LPC-663, Rubino will perform PID testing on the soil samples and soil analytical testing in general compliance with the IEPA CCDD requirements. Laboratory testing will be at the discretion of the environmental professional based on knowledge of the location of the borings.

LPC 663 Testing Scope

• PIP Evaluation (Historical & Regulatory)
  ○ 1 Eris Reports
• Soil Analytical Tests **(3 estimated)**:
  ○ Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) Resource Conservation Recovery Act (RCRA) Metals, pH
  ○ TCLP / SPLP RCRA Metal (**only if necessary**)
• P.E. / P.G. Review & Certification (LPC #663)
• *LPC-663 CCDD Certification, as applicable*

If the analytical testing indicates the soils are contaminated, additional testing and an additional disposal source may be necessary (Composite Non-Hazardous Non-Special Waste Analytical for landfill disposal if necessary).

Please note that CCDD certification requirements vary depending on the dump site. The above scope should be reviewed by the proposed dump site to determine compliance with the site's specific requirements.

SUMMARY REPORT

Upon completion of field and laboratory work, Rubino will prepare a summary engineering report using the collected data. The report will include the following:

- *Summary of client-provided project information and report basis*
- *Overview of field and laboratory tests performed including results*
- *LPC-663 CCDD Certification, as applicable*

An electronic copy of the report will be provided. The report will be addressed to Primera Engineers.

PROJECT SCHEDULE

Rubino proposes to initiate work on this project within 5 working days after receiving written authorization to proceed and we will follow the schedule below in order to complete the project:

Task	Number of Working Days
Utility clearance and rig mobilization	10
Field work including site layout and drilling	5
Laboratory Testing	10
Preparation of the LPC Certificate	10

Project schedules can be affected by weather conditions and changes in scope. If the report needs to be delivered by a specific day, please notify us as soon as possible. Preliminary verbal recommendations can be made to appropriate parties upon completion of the field investigation and laboratory testing. Rubino will need to receive a signed copy of this proposal intact prior to mobilizing the drill rig.

SPECIAL INSTRUCTIONS

Rubino will coordinate contacting the Utility "One-Call" for public utility clearance prior to the start of drilling activities. It is Rubino's experience that this service does not mark the locations of privately owned utilities. This proposal is based on private utility lines and other subsurface appurtenances being located in the field by others prior to our mobilization.

FEES

Rubino proposes to charge the fee for performance of the outlined scope of services on a lump-sum basis. Based on the scope of services outlined above, the lump-sum fee will be:

CCDD Field	Location Layout / Utility / PM	$ 750.00	lump sum
	Field Sampling – Geoprobe Direct Push	$ 1,600.00	lump sum
CCDD 663 Lab	Soil Analytical testing for form 663 ($650 each):	$ 1,950.00	Total
CCDD 663 Rpt	Form LPC 663 and Report:	$ 1,400.00	Lump sum
		$5,700.00	**Grand Total**

Please see the attached fee schedule for additional unit rates for services requested after issuing the report (drawing / spec review, scope or site layout change, etc.).

Scope Limitations

Project services do not include a site evaluation to determine the presence or absence of wetlands, hazardous substances, or toxic materials.

Rock coring is not included in the scope of this exploration, therefore, the character and continuity of refusal materials, if encountered, can be determined only with a more comprehensive scope of services. Therefore, the borings will be advanced to the depths referenced above, or to refusal, whichever is shallower.

Sampling and testing requirements are a function of the subsurface conditions encountered. Should conditions be encountered which require a deepening of borings or additional investigation, Rubino will notify you to discuss modifying the outlined scope of services. Additional work beyond the lump-sum fee will not be performed without your prior authorization.

AUTHORIZATION

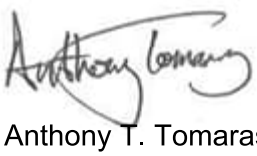
If this proposal is acceptable to you, Rubino will perform the work in accordance with the attached General Conditions that are incorporated into and made a part of this proposal. Please sign below as notice to proceed and return one copy of this proposal intact to our office. Rubino will proceed with the work upon receipt of authorization.

Rubino appreciates the opportunity to offer our services for this project and we look forward to working with your company. Please contact Rubino with questions pertaining to this proposal or requests for additional services.

Respectfully submitted,

RUBINO ENGINEERING, INC.

Michelle A. Lipinski, PE
President
michelle.lipinski@rubinoeng.com



Anthony T. Tomaras, PG
Project Manager
anthony@rubinoeng.com

Prepared By: Jonathan Ignarski, jonathan@rubinoeng.com

RUBINO ENGINEERING, INC. IS:
AN AASHTO-ACCREDITED LABORATORY
IDOT PREQUALIFIED
IDOT DBE-CERTIFIED (100% WOMAN-OWNED)

MAL/file

Attachments: Proposal Acceptance and Data Sheet
Schedule of Services and Fees
General Conditions
**This is an electronic copy. Hard Copies of this proposal are available upon request.

PROPOSAL ACCEPTANCE:

AGREED TO, THIS _____ **DAY OF** _____ **, 202__.**

BY *(please print)*: _____

TITLE: _____

COMPANY: _____

SIGNATURE: _____

PROJECT INFORMATION:

1. Project Name: _____
2. Project Location: _____
3. Your Job No: _____ Purchase Order No.: _____
4. Project Manager: _____ Telephone No.:_____
5. Site Contact:_____ Telephone No.:_____
6. Number and Distribution of Reports:

   ( ) Copies To: _____ ( ) Copies To: _____

   _____ _____

   _____ _____

   Attn: _____ Attn:_____

   Email: _____ **Email:** _____

   ( ) Copies To: _____ ( ) Copies To: _____

   _____ _____

   _____ _____

   Attn: _____ Attn:_____

   Email: _____ **Email:** _____

7. Invoicing Address: _____

   _____

   _____

   Attn: _____

   Email: _____
8. Other Pertinent Information Or Previous Subsurface Information Available:

   _____

   _____

Rubino Engineering, Inc.
2026 Schedule of Geotechnical Services & Fees

ENGINEERING

Professional and Technical Services for site evaluation, field supervision, analysis of test data and engineering recommendations and consultation:

Principal Engineer	Per Hour	$	185.00
Project Engineer/Manager	Per Hour	$	140.00
Engineering Field Technician / Field Engineer / Field Geologist	Per Hour	$	120.00

SUBSURFACE EXPLORATION

Mobilization and moving of truck-mounted drilling equipment and crew (50-mile radius)	Per Trip	$	650.00
Hourly Rate Drilling	Per Hour	$	475.00
Thin Wall Tubes (ASTM D-1587)	Each	$	50.00

LABORATORY TESTING

Moisture Content Test / Visual Classification	Each	$	8.90
Atterberg Limits Determination (LL, PL)	Each	$	65.00
Combined Hydrometer & Sieve Analysis	Each	$	150.00
Sieve Analysis (washed)	Each	$	95.00
Unconfined Compression Test, with Stress-Strain Curve	Each	$	95.00
Density Determination	Each	$	15.00
Specific Gravity Determination	Each	$	65.00
Organic Content Determination Test (loss on ignition)	Each	$	15.00
One-Dimensional Consolidation Test (ASTM D-2435)	Each	$	750.00
Triaxial Testing (TXC-CIU) 3-Point Envelope	Each	$	1,800.00

FEE REMARKS

1) All fees and services are provided in accordance with the attached Rubino General Conditions.
2) Unit prices/rates are in effect for 12 months from the date of this proposal and are subject to change without notice thereafter.
3) Overtime rates are applicable for services performed in excess of 8 hours per day Monday through Friday, before 8:00 AM or after 5:00 PM, and for all hours worked on Saturdays, Sundays and holidays. The overtime rate is 1.5 times the applicable hourly rate.
4) All rates are billed on a portal-to-portal basis.
5) Standby time due to delays beyond Rubino's control will be charged at the applicable hourly rate.
6) Transportation and per diem are charged at the applicable rates.
7) Rates involving mileage (including transportation, mobilization, vehicle and trip charges) are subject to change based upon increases in the national average gasoline price.
8) A minimum charge of 4 hours applies to field testing and observation services.
9) Scheduling or cancellation of field testing and observation services is required no less than the working day prior to the date the services are to be performed. Services cancelled without advance and/or inadequate notice will be assessed a minimum charge of 4 hours.
10) For all Rubino services, a project management/engineering review charge will be billed for all reports issued for the scheduling/supervision of personnel and the evaluation/review of data and reports.
11) The minimum billing increment for time is a half hour.
12) A project set-up charge of a minimum of two hours applies to all projects.
13) Professional services rates are exclusive of expert deposition or testimony time.
14) Drilling and field service rates are based on OSHA Level D personnel protection.
15) For sites where drilling is to occur that are not readily accessible to a truck mounted drill rig, rates for rig mobility, site clearing, crew stand-by time, etc. will be charged as applicable.
16) If applicable the prevailing wage fees charged under this agreement will be adjusted if there is any change in the applicable prevailing wage rate established by the Illinois Department of Labor.
17) Services and fees not listed on this schedule may be quoted on request.

Client#: 1171577 RUBINENG

ACORD **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY): 10/02/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER USI Insurance Services LLC 2001 Spring Road, Ste 200 Oak Brook, IL 60523 312 442-7200	CONTACT NAME: Laurie Cloninger PHONE (A/C, No, Ext): 630 625-5219 FAX (A/C, No): 610 537-4939 E-MAIL ADDRESS: AEcertificates@usi.com
INSURED Rubino Engineering, Inc. 425 Shepard Dr Elgin, IL 60123	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : RLI Insurance Company — 13056 INSURER B : Pacific Insurance Company, Limited — 10046 INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:			PSB0003777	09/01/2025	09/01/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $1,000,000 $10,000 $1,000,000 $2,000,000 $2,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY			PSA0001881	09/01/2025	09/01/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000
A	UMBRELLA LIAB X OCCUR X EXCESS LIAB CLAIMS-MADE DED RETENTION $			PSE0002142	09/01/2025	09/01/2026	EACH OCCURRENCE AGGREGATE	$5,000,000 $5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N Y (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		PSW0002789	09/01/2025	09/01/2026	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$1,000,000 $1,000,000 $1,000,000
B	Professional Liability			83OH056719925	09/01/2025	09/01/2026	$2,000,000 each claim / $4,000,000 annual aggr.	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Professional Liability is written on a 'claims made' policy form.

Some or all officers are excluded from Workers Compensation coverage.

THIS CERTIFICATE OF INSURANCE IS INTENDED AS A SPECIMEN COPY ONLY.

CERTIFICATE HOLDER

Rubino Engineering, Inc.

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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ACORD 25 (2016/03) 1 of 1 The ACORD name and logo are registered marks of ACORD
#S51133355/M50716566 SXNAB

GENERAL CONDITIONS

1. PARTIES AND SCOPE OF SERVICES: Rubino Engineering, Inc. shall include said company or its particular division, subsidiary or affiliate performing the services. "Services" means the specific geotechnical, analytical, testing or other service to be performed by Rubino Engineering, Inc. as set forth in Rubino Engineering, Inc.'s proposal, Client's acceptance thereof and these General Conditions. Additional services ordered by Client shall also be subject to these General Conditions. "Client" refers to the person or business entity ordering the services to be done by Rubino Engineering, Inc. If Client is ordering the services on behalf of another, Client represents and warrants that it is the duly authorized agent of said party for the purpose of ordering and directing said services. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by the client is adequate and sufficient for Client's intended purpose. Client shall communicate these General Conditions to each and every third party to whom Client transmits any part of Rubino Engineering, Inc.'s services. Rubino Engineering, Inc. shall have no duty or obligation to any third party greater than that set forth in Rubino Engineering, Inc.'s proposal, Client's acceptance thereof and these General Conditions. The ordering of services from Rubino Engineering, Inc., or the reliance on any of Rubino Engineering, Inc.'s work, shall constitute acceptance of the terms of Rubino Engineering, Inc.'s proposal and these General Conditions, regardless of the terms of any subsequently issued document.

2. TESTS AND INSPECTIONS: Client shall cause all tests and inspection of the site, materials and work performed by Rubino Engineering, Inc. or others to be timely and properly performed in accordance with the plans, specifications and contract documents and Rubino Engineering, Inc.'s recommendations. No claims for loss, damage or injury shall by brought against Rubino Engineering, Inc. by Client or any third party unless all tests and inspections have been so performed and unless Rubino Engineering, Inc.'s recommendations have been followed. Client agrees to indemnify, defend and hold Rubino Engineering, Inc., its officers, employees and agents harmless from any and all claims, suits, losses, costs and expenses, including, but not limited to, court costs and reasonable attorney's fees in the event that all such tests and inspections are not so performed or Rubino Engineering, Inc.'s recommendations are not so followed except to the extent that such failure is the result of the negligence, willful or wanton act of omission of Rubino Engineering, Inc., its officers, agents or employees, subject to the limitation contained in paragraph 9.

3. SCHEDULING OF SERVICES: The services set forth in Rubino Engineering, Inc.'s proposal and Client's acceptance will be accomplished in a timely, workmanlike and professional manner by RUBINO ENGINEERING, INC. personnel at the prices quoted. If Rubino Engineering, Inc. is required to delay commencement of the services or if, upon embarking upon its services, Rubino Engineering, Inc. is required to stop or interrupt the progress of its services as a result of changes in the scope of the services requested by Client, to fulfill the requirements of third parties, interruptions in the progress of construction, or other causes beyond the direct reasonable control of Rubino Engineering, Inc., additional charges will be applicable and payable by Client.

4. ACCESS TO SITE: Client will arrange and provide such access to the site as is necessary for Rubino Engineering, Inc. to perform the services. Rubino Engineering, Inc. shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as the result of its services or the use of its equipment; however, Rubino Engineering, Inc. has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires Rubino Engineering, Inc. to restore the site to its former condition, upon written request Rubino Engineering, Inc. will perform such additional services as is necessary to do so and Client agrees to pay Rubino Engineering, Inc. for the cost.

5. CLIENT'S DUTY TO NOTIFY ENGINEER: Client represents and warrants that it has advised Rubino Engineering, Inc. of any known or suspected hazardous materials, utility lines and pollutants at any site at which Rubino Engineering, Inc. is to perform services hereunder, and unless Rubino Engineering, Inc. has assumed in writing the responsibility of locating subsurface objects, structures, lines or conduits. Rubino Engineering, Inc. may use such information in performing its services and is entitled to rely upon the accuracy and completeness thereof. Client agrees to defend, indemnify and save Rubino Engineering, Inc. harmless from all claims, suits, loses costs and expenses, including reasonable attorney's fees as a result of personal injury, death or property damage occurring with respect to Rubino Engineering, Inc.'s performance of its work and resulting to or caused by contact with subsurface of latent objects, structures, lines or conduits where the actual or potential presence and location thereof were not revealed to Rubino Engineering, Inc. by Client and/or by any of Client's subcontractors or sub consultants

6. RESPONSIBILITY: Rubino Engineering, Inc.'s services shall not include determining, supervising or implementing the means, methods, techniques, sequences or procedures of construction. Rubino Engineering, Inc. shall not be responsible for evaluating, reporting or affecting job conditions concerning health, safety or welfare. Rubino Engineering, Inc.'s services or failure to perform same shall not in any way excuse any contractor, subcontractor or supplier from performance of its work in accordance with the contract documents. Rubino Engineering, Inc. has no right or duty to stop the contractor's work.

7. SAMPLE DISPOSAL: Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed sixty (60) days after submission of Rubino Engineering, Inc.'s report.

8. PAYMENT: Client shall be invoiced once each month for services performed during the preceding period. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoiced and not paid or objected to for valid cause in writing with said thirty (30) day period at the rate of eighteen (18) percent per annum (or the maximum interest rate permitted under applicable law), until paid. Client agrees to pay Rubino Engineering, Inc.'s cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees. Rubino Engineering, Inc. shall not be bound by any provision or agreement requiring or providing for arbitration or disputes or controversies arising out of this agreement, any provision wherein Rubino Engineering, Inc. waives any rights to a mechanics' lien, or any provision conditioning Rubino Engineering, Inc.'s right to receive payment for its services upon payment to Client by any third party. These General Conditions are notice, where required, that Rubino Engineering, Inc. shall file a lien whenever necessary to collect past due amounts. Release of such lien shall be given only when payment in full has been received for services duly rendered. Failure to make payment within thirty (30) days of invoice shall constitute a release of Rubino Engineering, Inc. from any and all claims which Client may have, whether in tort, contract or otherwise and whether known or unknown at the time.

9. STANDARD OF CARE: RUBINO ENGINEERING, INC.'S SERVICES WILL BE PERFORMED, ITS FINDINGS OBTAINED AND ITS REPORTS PREPARED IN ACCORDANCE WITH ITS PROPOSAL, CLIENT'S ACCEPTANCE THEREOF, THESE GENERAL CONDITIONS AND WITH GENERALLY ACCEPTED PRINCIPLES AND PRACTICES. IN PERFORMING ITS PROFESSIONAL SERVICES, RUBINO ENGINEERING, INC. WILL USE THAT DEGREE OF CARE AND SKILL ORDINARILY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY MEMBERS OF ITS PROFESSION. RUBINO ENGINEERING, INC. MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, IN CONNECTION WITH ITS SERVICES PROVIDED AS SET FORTH IN ITS PROPOSAL, CLIENT'S ACCEPTANCE THEREOF, AND THESE GENERAL CONDITIONS. STATEMENTS MADE IN RUBINO ENGINEERING, INC. REPORTS ARE OPINIONS BASED UPON ENGINEERING JUDGMENT AND ARE NOT TO BE CONSTRUED AS REPRESENTATIONS OF FACT.

SHOULD RUBINO ENGINEERING, INC. OR ANY OF ITS PROFESSIONAL EMPLOYEES BE FOUND TO HAVE BEEN NEGLIGENT IN THE PERFORMANCE OF ITS WORK, OR TO HAVE MADE AND BREACHED ANY EXPRESSED OR IMPLIED WARRANTY, REPRESENTATION OR CONTRACT, CLIENT, ALL PARTIES CLAIMING THROUGH CLIENT AND ALL PARTIES CLAIMING TO HAVE IN ANY WAY RELIED UPON RUBINO ENGINEERING, INC.'S WORK, AGREE THAT THE MAXIMUM AGGREGATE AMOUNT OF THE LIABILITY OF RUBINO ENGINEERING, INC., ITS OFFICERS, EMPLOYEES AND AGENTS SHALL BE LIMITED TO $10,000.00 OR THE TOTAL AMOUNT OF THE FEE PAID TO RUBINO ENGINEERING, INC. FOR ITS WORK PERFORMED WITH RESPECT TO THE PROJECT, WHICHEVER AMOUNT IS GREATER.

NO ACTION OR CLAIM, WHETHER IN TORT, CONTRACT OR OTHERWISE, MAY BE BROUGHT AGAINST RUBINO ENGINEERING, INC., ARISING FROM OR RELATED TO RUBINO ENGINEERING, INC.'S WORK, MORE THAN TWO (2) YEARS AFTER THE CESSATION OF RUBINO ENGINEERING, INC.'S WORK HEREUNDER.

10. INDEMNITY: To the fullest extent permitted by law, Client and Rubino Engineering, Inc. each agree to indemnify the other party and the other party's officers, directors, partners, employees, and representatives, from and against losses, damages, and judgments arising from claims by third parties, including reasonable attorneys' fees and expenses recoverable under applicable law, but only to the extent they are found to be caused by a negligent act, error, or omission of the indemnifying party or any of the indemnifying party's officers, directors, members, partners, agents, employees, subcontractors, or subconsultants in the performance of services under this Agreement. If claims, losses, damages, and judgments are found to be caused by the joint or concurrent negligence of Client and Rubino Engineering, Inc., they shall be borne by each party in proportion to its negligence.

11. TERMINATION: This Agreement may be terminated by either party upon seven (7) days' prior written notice. In the event of termination, Rubino Engineering, Inc. shall be compensated by Client for all services performed up to and including the termination date, including reimbursable expenses and for the completion of such services and records as are necessary to place Rubino Engineering, Inc.'s files in order and/or protect its professional reputation. Failure of Client to make payments when due shall be cause for suspension of services or, ultimately, termination, unless and until Rubino Engineering Inc. has been paid in full all amounts due for services, expenses and other related changes.

12. DISPUTE RESOLUTION: In the event of a dispute arising out of or relating to this Agreement or the services to be rendered hereunder, the Client and Rubino Engineering, Inc. agree to attempt to resolve such disputes in the following manner: 1) The parties agree to attempt to resolve any and all unsettled claims, counterclaims, disputes and other matters in question through direct negotiations between the appropriate representatives of each party; 2) If such negotiations are not fully successful, the parties agree to submit any and all remaining unsettled claims, counterclaims, disputes and other matters in question to mediation in accordance with the Construction Industry Mediation Rules of the American Arbitration Association, effective as of the date of this Agreement.

13. WITNESS FEES: Rubino Engineering, Inc.'s employees shall not be retained as expert witnesses except by separate written agreement. Client agrees to pay Rubino Engineering, Inc.'s legal expenses, administrative costs and fees pursuant to Rubino Engineering, Inc.'s then current fee schedule for Rubino Engineering, Inc. to respond to any subpoena.

14. NO HIRE: Client agrees not to hire Rubino Engineering, Inc.'s employees except through Rubino Engineering, Inc. In the event Client hires a Rubino Engineering, Inc. employee, Client shall pay Rubino Engineering, Inc. an amount equal to one-half of the employee's annualized salary, with Rubino Engineering, Inc. waiving other remedies it may have.

15. HAZARDOUS MATERIALS: Nothing contained within this agreement shall be construed or interpreted as requiring Rubino Engineering, Inc. to assume the status of an owner, operator, generator, storer, transporter, treater or disposal facility as those terms appear within RCRA, CERCLA, or within any Federal or State statute or regulation governing the generation, transportation, treatment, storage

and disposal of pollutants. Client assumes full responsibility for compliance with the provisions of RCRA, CERCLA, and any other Federal or State statute or regulation governing the handling, treatment, storage and disposal of pollutants.

16. PROVISIONS SEVERABLE: The parties have entered into this agreement in good faith and it is the specific intent of the parties that the terms of the General Conditions be enforced as written. In the event any of the provisions of these General Conditions should be found to be unenforceable, it shall be stricken and the remaining provisions shall be enforceable.

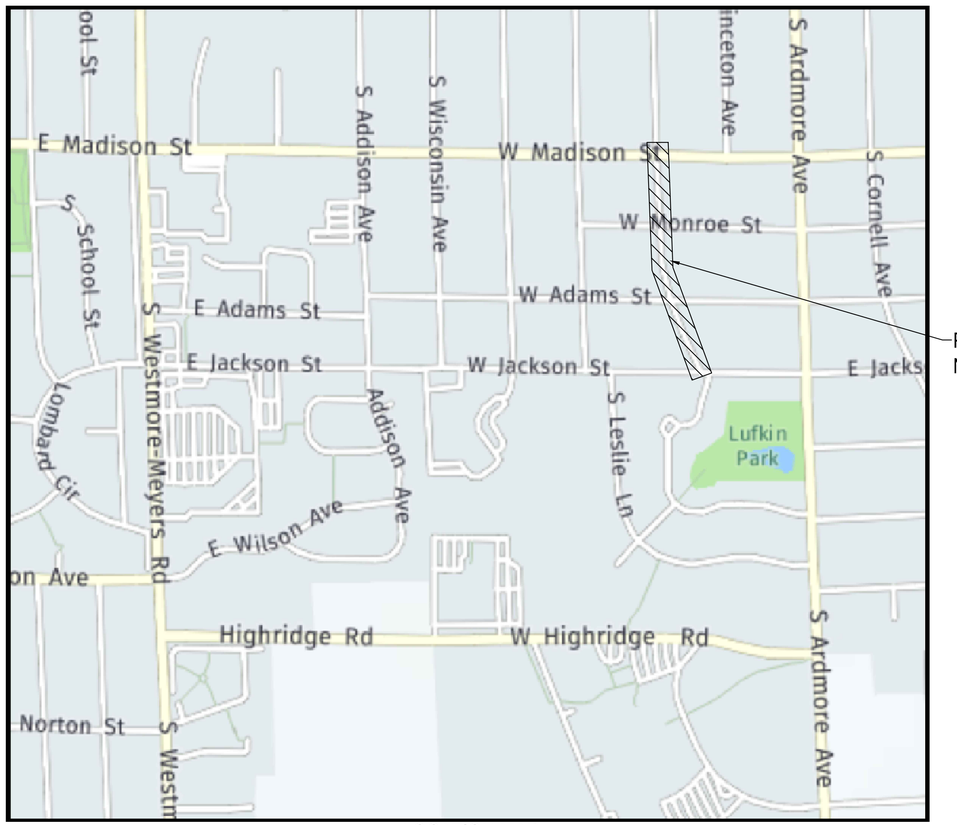
17. ENTIRE AGREEMENT: This agreement constitutes the entire understanding of the parties, and there are no representations, warranties or undertakings made other than as set forth herein. This agreement may be amended, modified or terminated only in writing, signed by each of the parties hereto.

ENGINEERING PLANS FOR

VILLAGE OF VILLA PARK
YALE AVENUE IMPROVEMENTS

W MADISON ST TO W JACKSON ST
DUPAGE COUNTY

INDEX OF SHEETS	
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6-7	ALIGNMENT & TIES
8-10	EXISTING CONDITIONS & REMOVAL PLAN
11-13	DRAINAGE PLAN & PROFILE
14	DRAINAGE STRUCTURE TABLES
15-16	PAVEMENT MARKING PLAN
17-19	EROSION CONTROL PLAN
20-28	CROSS SECTIONS
29-36	ADA DESIGN DETAILS
37-46	STANDARD DETAILS



PROJECT LOCATION
NET LENGTH = 0.27 MILE

LOCATION OF SECTION INDICATED THUS: – ▬ –

PREPARED FOR:

villa park
THE GARDEN VILLAGE

VILLAGE OF VILLA PARK
DEPARTMENT OF PUBLIC WORKS
11 W HOME AVENUE
VILLA PARK, IL 60181

100' 200' 300'— 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

LOCATION MAP
NTS

TOTAL LENGTH OF PROJECT = 1417.86 FEET = 0.27 MILES
NET LENGTH OF PROJECT = 1417.86 FEET = 0.27 MILES

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM 811

ENGINEERING PLAN SUBMITTAL

THESE ENGINEERING PLANS AND SUPPORTING DOCUMENTS ARE ISSUED FOR THE FOLLOWING PURPOSE ONLY

	PRELIMINARY PLAN REVIEW NO.
X	PRE–FINAL PLAN REVIEW NO. 1
	FINAL PLAN REVIEW NO.
	PERMIT APPLICATION
	BIDDING
	CONSTRUCTION

Primera
550 W. JACKSON BOULEVARD STE 600 CHICAGO, IL 60661 P312-606-0910 F312-606-0415

ANTHONY J. BRYANT
062-070520
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

SIGNATURE DATE
LICENSE EXPIRES 11-30-2023

Purchase Requisition

Purchase Requisition No 260108

Requested Date 08/27/2026
Required Date
Ordered By tdau

Department PW ENG
PUBLIC WORKS ENGINEERING

Preferred Vendor 013600
PRIMERA ENGINEERS LTD

Address 550 W JACKSON BLVD SUITE 600

Req. Description YALE AVE (JACKSON TO MADISON) PH 2 SUPPLEMENT

Quantity	Units	Description	Unit Price	Amount
1		YALE AVE (JACKSON TO MADISON) PH 2 SUPPL 60-603-529203 49,509.00	49,509.00	49,509.00
			Total:	49,509.00

Approved By _____ **Date** _____

MEMORANDUM

TO: Village Board of Trustees

FROM: Kevin Mantels, Village Engineer

DATE: September 14, 2026

SUBJECT: Resolution of the Village of Villa Park, DuPage County, Illinois, Approving Final Change Order Number 1 to the Contract with Nardulli Construction Company, Inc. of Chicago Illinois, for Construction of the Terrace Alley Rebuild for a Net Deduction in the Amount of $21,994.20.

RECOMMENDED ACTION:
This Resolution authorizes the Village Manager to execute the change order in substantially the form attached hereto to the contract with Nardulli Construction Company, Inc., of Chicago, Illinois. The Village has a contract with Nardulli Construction Company, Inc., in the amount of $146,291.75 for the construction of the Terrace Alley Rebuild. Proposed final Change Order Number 01 consists of the final balancing of contract quantities as measured in the field. The net amount of the proposed final Change Order Number 01 is a deduction in the amount of $21,994.20, for an adjusted contract amount of $124,297.55.

BACKGROUND:
The project's objective was to improve the condition of the Terrace Alley from Princeton Ave to Ardmore Ave. This project is also expected to help with rodent control.

DISCUSSION:
Funding for construction costs was taken from TIF 6 - North Ardmore TIF.

RESOLUTION NO. _____

RESOLUTION OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS, APPROVING FINAL CHANGE ORDER NUMBER 01 TO THE CONTRACT WITH NARDULLI CONSTRUCTION COMPANY, INC, OF CHICAGO, ILLINOIS, FOR CONSTRUCTION OF THE TERRACE ALLEY REBUILD FOR A NET DEDUCTION IN THE AMOUNT OF $21,994.20.

WHEREAS, the Village of Villa Park (the "Village") is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and

WHEREAS, the Village had approved a contract in the amount of $146,291.75 with Nardulli Construction Company, Inc., of Chicago, Illinois, for a project commonly known as the Terrace Alley Rebuild which contract amount requires a decrease from the original contract amount due to difference from estimated quantities to filed measurement of pay items to complete the project resulting in a change order for a deduction in an amount of Twenty-One Thousand Nine Hundred Ninety-Four and 20/100 ($21,994.20) dollars; and

WHEREAS, change orders must meet the required findings that circumstances necessitating the change were not reasonably foreseeable at the time the contract was signed; or the change is germane to the original contract as signed; or the change order is in the best interest of the Village as required by Section 33E-9 of the Illinois Criminal Code (720 ILCS 5/33 E-9); and

WHEREAS, it has been recommended to the Village Board that a change order is necessary and consists of the final balancing of contract quantities as measured in the field, as set forth in final Change Order Number 01 attached hereto and made a part hereof as Exhibit A; and

WHEREAS, the President and Board of Trustees of the Village (the "Corporate Authorities") have reviewed the change order and find that it is in the best interests of the Village and its residents

Resolution No. _____

to approve the change order amount to decrease from the original contract amount due for the Terrace Alley Rebuild project.

NOW, THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Villa Park, DuPage County, State of Illinois, as follows:

Section 1: That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2: The Village hereby finds and declares that the final Change Order Number 01 to the Terrace Alley Rebuild contract with Nardulli Construction Company, Inc., with total additions of $13,022.60 and total deductions of $35,016.80 for a net deduction of $21,994.20, attached hereto and made a part hereof, is required by circumstances not reasonably foreseeable at the time the contract was signed and is in the best interest of the Village.

Section 3: The Village President and Village Board of Trustees of Villa Park find that the Change Order does not authorize or necessitate an increase in the contract price that is fifty percent (50%) or more of the original contract price and that it does not authorize or necessitate an increase in the price of the subcontract under the contract that is fifty percent (50%) or more of the original subcontract price.

Section 4: The attached change order is hereby approved, and the Village Manager is authorized to execute the change order in substantially the form attached hereto.

Section 5: That the Village Manager is directed to cause a copy of this resolution to be placed and maintained in the permanent contract file for the Terrace Alley Rebuild which shall be open to the public.

Section 7: All work performed pursuant to this Resolution shall comply with applicable federal, state, and local laws, regulations, and Village codes.

Section 8: All ordinances, resolutions and policies or parts thereof, in conflict with the provisions of this Resolution are, to the extent of the conflict, expressly repealed on the effective date of this Ordinance.

Section 9: If any provision of this Resolution or application thereof to any person or circumstances is ruled unconstitutional or otherwise invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid application or provision, and each invalid provision or invalid application of this Resolution is severable.

Section 10: The headings/captions identifying the various sections and subsections of this Resolution are for reference only and do not define, modify, expand or limit any of the terms or provisions of the Resolution.

Section 11: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

Passed this _____ day of _____, 2026.

Village of Villa Park pursuant to a roll call vote as follows:

AYES:_____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED by me this ____ day of _____, 2026.

Resolution No. _____

_____
Kevin Patrick, President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this ____ day of _____, 2026.

_____
Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

Resolution No. _____

EXHIBIT "A"
Change Order 01 (Final)

Village of Villa Park

Change Order Number 01 (Final)

Project: Terrace Alley Rebuild
Contractor: Nardulli Construction Company, Inc.
Date of Contract Time Start: 05/18/2026
Awarded Contract Amount: $146,291.75

Changes Ordered Herewith:

ITEM NO.	PAY ITEM	UNITS	PREVIOUS QUANTITY	ADJUSTED QUANTITY	UNIT PRICE	AMOUNT CHANGE
01	COMBINATION CURB AND GUTTER REMOVAL (SPECIAL)	FOOT	55.00	68.00	$10.00	$ 130.00
02	SIDEWLAK REMVOAL	SQ FT	150.00	104.00	$2.50	$ (115.00)
03	DRIVEWAY PAVEMENT REMOVAL	SQ YD	255.00	47.00	$20.00	$ (4,160.00)
04	HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)	SQ YD	15.00	8.00	$25.00	$ (175.00)
05	EARTH EXCAVATION FOR ALLEY PAVEMENT	CU YD	240.00	306.00	$65.00	$ 4,290.00
06	EARTH EXCAVATION (SPECIAL)	CU YD	15.00	15.00	$65.00	$ -
07	UNDERCUT EXCAVATION	CU YD	25.00	0.00	$1.00	$ (25.00)
08	POUROUS GRANULAR EMBANKMENT	CU YD	25.00	0.00	$1.00	$ (25.00)
09	FRAMES AND LIDS TO BE ADJUSTED	EACH	3.00	3.00	$875.00	$ -
10	FRAMES AND LIDS TO BE ADJUSTED	EACH	1.00	2.00	$550.00	$ 550.00
11	GEOTECHNICAL FABRIC FOR GROUN STABILIZATION	SQ YD	475.00	459.00	$2.55	$ (40.80)
12	AGGREGATE BASE COURSE, TYPE B, 4"	SQ YD	40.00	12.00	$7.00	$ (196.00)
13	AGGREGATE BASE COURSE, TYPE B, 6"	SQ YD	475.00	483.00	$9.00	$ 72.00
14	AGGREGATE BASE COURSE, TYPE B, 9"	SQ YD	255.00	160.00	$12.00	$ (1,140.00)
15	INCIDENTAL HOT-MIX ASPHALT SURFACE COURSE, 2"	SQ YD	255.00	95.00	$63.50	$ (10,160.00)
16	INCIDENTAL HOT-MIX ASPHALT SURFACE COURSE, 3"	SQ YD	15.00	73.00	$94.50	$ 5,481.00
17	CONCRETE BASE COURSE, 8"	SQ YD	5.00	0.00	$100.00	$ (500.00)
18	COMBINATION CURB AND GUTTER, TYPE B-6.12 (MODIFIED)	FOOT	80.00	68.00	$45.00	$ (540.00)
19	CONCRETE CURB, TYPE B	FOOT	195.00	90.00	$55.00	$ (5,775.00)
20	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQ FT	100.00	104.00	$12.00	$ 48.00
21	PORTLAND CEMENT CONCRETE ALLEY PAVEMENT, 8"	SQ YD	475.00	483.00	$105.00	$ 840.00
22	EDGE GRADE ADJUSTMENT	FOOT	35.00	0.00	$10.00	$ (350.00)
23	DETECTABLE WARNINGS	SQ FT	20.00	18.00	$40.00	$ (80.00)
24	PROTECTIVE COATS	SQ YD	505.00	511.00	$1.10	$ 6.60
25	TOPSOIL PLACEMENT, 3"	SQ YD	125.00	170.00	$12.00	$ 540.00
26	SEEDING, CLASS 1	SQ YD	125.00	170.00	$4.00	$ 180.00
27	INLETS FILTERS	EACH	6.00	2.00	$200.00	$ (800.00)
28	PRE-CONSTRUCTION VIDEO RECORDING	L.S.	1.00	1.00	$1,400.00	$ -
29	TRAFFIC CONTROL & PROTECTION (SPECIAL)	L.S.	1.00	1.00	$7,000.00	$ -
30	CONTINGENCY CASH ALLOWANCE	DOL	10000.00	0.00	$1.00	$ (10,000.00)
31	REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES	CU YD	50.00	0.00	$1.00	$ (50.00)
32	TREE REMOVAL	IN-DIA	50.00	50.00	$88.00	$ -
33	WATER USAGE DEDUCTION	TGAL	100.00	0.00	($8.85)	$ 885.00
34	WATER USAGE CREDIT	TGAL	100.00	0.00	$8.85	$ (885.00)
	TOTAL ADDITIONS				**$**	**13,022.60**
	TOTAL DEDUCTIONS				**$**	**(35,016.80)**
	TOTAL CHANGE ORDER AMOUNT				**$**	**(21,994.20)**
	REASON FOR CHANGE ORDER:					

Village of Villa Park

Change Order Number 01 (Final)

Project:	**Terrace Alley Rebuild**
Contractor:	**Nardulli Construction Company, Inc.**
Date of Contract Time Start:	**05/18/2026**
Awarded Contract Amount:	**$146,291.75**

Changes Ordered Herewith:

ITEM NO.	PAY ITEM	UNITS	PREVIOUS QUANTITY	ADJUSTED QUANTITY	UNIT PRICE	AMOUNT CHANGE

This final Change Order #1 consists of the balancing of contract quantities as measured in the field.

CONTRACT AMOUNT

AWARDED CONTRACT AMOUNT	$ 146,291.75
PREVIOUS CHANGE ORDERS (+/-)	$ -
THIS CHANGE ORDER (+/-)	$ (21,994.20)
TOTAL CHANGE ORDERS (+/-)	$ (21,994.20)
ADJUSTED CONTRACT AMOUNT	$ 124,297.55

CONTRACT TIME (CALENDAR DAYS)

	SUBSTANTIAL COMPLETION	FINAL COMPLETION
ORIGINAL		
PREVIOUS C.O.'S (+/-)		
THIS C.O. (+/-)		
REVISED		
ORIG. COMPLETION DATE	07/16/2025	07/16/2026
REV. COMPLETION DATE	07/16/2025	07/16/2026

It is mutually agreed by Owner and Contractor that this change order includes any and all costs associated with or resulting from the changes ordered herein, including all impact, delays, and acceleration costs. Other than the dollar amount and time allowance listed above, there shall be no further time or dollar compensation as a result of this change order. This document shall become an amendment to the Contract and all stipulations and covenants of the Contract shall apply hereto.

Nardulli Construction Company, Inc.
CONTRACTOR

BY: Santino Nardulli 8/28/26
DATE

Hancock Engineering
ENGINEER

BY: Chris Baker 8-28-26
DATE

Village of Villa Park
OWNER

BY:
DATE

MEMORANDUM

TO: Village Board of Trustees

FROM:

DATE: September 14, 2026

SUBJECT: An Ordinance Conditionally Increasing the Number of Class B Liquor Licenses Under Section 3-313(A) of the Villa Park Municipal Code

---

RECOMMENDED ACTION:
This ordinance would increase the number of available Class B liquor licenses when a current liquor store is purchased by a new owner. This ordinance was recommended by the Local Liquor Control Commission. This is a first reading.

BACKGROUND:
Foremost Liquor holds a Class B liquor license for the sale of packaged liquor. Shivay 62 LLC is buying the property located at 536 W. St. Charles Road frm Foremost Liquor. When Foremost Liquor ceases to operate, its Class B license will be surrendered. The number of available Class B liquor licenses will automatically be reduced by one. This Ordinance would increase the number of Class B liquor licenses by one to allow the purchaser to continue selling packaged alcohol on the property.o

DISCUSSION:
To avoid any gap in selling packaged alcohol, this Ordinance would only take effect after Foremost Liquor surrenders its license. The Local Liquor Control Commissioner could then give the "new" license to the new owner.

To: Kevin Patrick and Village Board of Trustees

From: Villa Park Liquor Commission

CC: Mike Rivas, Village Manager

Date: 09.08.26

Re: Liquor License for Shivay 62, LLC – Foremost Liquor

Shivay 62 LLC is purchasing Foremost Liquor to conduct business as new owners. The Class B license maintained by Foremost Liquor will be voluntarily surrendered upon the change of ownership and the sale of the business, which will automatically and immediately reduce the maximum number of Class B licenses by one. At that time, Shivay 62 LLC will not be allowed to sell alcohol, and there will be no available Class B liquor licenses as a result of the automatic termination.

At its September 1, 2026, meeting, the Local Liquor Control Commission considered the application of Shivay 62, LLC, which would be located at 536 W St. Charles Rd. The food and liquor store is requesting a Class B liquor license, which is designed to authorize the sale at retail of alcoholic liquor in original packages only, but not for consumption on the premises.

The Local Liquor Control Commission recommends that the Village Board by ordinance increase the number of Class B licenses from 7 to 8, effective upon Foremost Liquor's surrender of its Class B license. The Liquor Commission also recommends that the Local Liquor Control Commissioner grant the newly created B liquor license to Shivay 62, LLC.

ORDINANCE NO. _____

AN ORDINANCE CONDITIONALLY INCREASING THE NUMBER OF CLASS B LIQUOR LICENSES UNDER SECTION 3-313(A) OF THE VILLA PARK MUNICIPAL CODE

WHEREAS, the Village of Villa Park (the "*Village*") is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and

WHEREAS, pursuant to Section 5/4-1 of the Liquor Control Act of 1934, as amended, (235 ILCS 5/4-1 et seq.) the Village President and Board of Trustees of the Village (the "*Corporate Authorities*") have the power, and are charged with the responsibility, to determine the number, kind and classification of liquor licenses that are available for the sale and distribution of alcoholic beverages within the Village; and

WHEREAS, a Class B-Package liquor license ("*Class B Liquor License*") authorizes the sale at retail of alcoholic liquor in original packages only, but not for consumption on the premises where sold; and

WHEREAS, Shivay 62 LLC (the "*Applicant*") is the contract purchaser of the establishment located at 536 W St. Charles Rd, Villa Park (the "*Property*"), which currently operates as Foremost Liquors and which holds a Class B Liquor License; and

WHEREAS, the Class B Liquor License maintained by Foremost Liquors will be surrendered upon the sale of the business, which will automatically and immediately reduce the maximum number of Class B Liquor Licenses by one, pursuant to Section 3-315(d) of the Municipal Code of the Village of Villa Park; and

WHEREAS, the Applicant seeks to operate a new establishment also named Foremost Liquors, on the Property and has applied for a Class B Liquor License; and

WHEREAS, the Local Liquor Control Commission recommends that the Corporate Authorities increase the number of Class B Liquor Licenses by one, conditioned upon the surrender of Foremost Liquors' Class B Liquor License and the automatic reduction in the number of Class B Liquor Licenses; and

WHEREAS, the Corporate Authorities find that it is in the best interest of the residents of the Village to accept the Local Liquor Control Commission's recommendations and amend the Municipal Code accordingly.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

Section 1: The above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2: When Foremost Liquors sells its property to the Applicant, surrendering its Class B Liquor License and automatically reducing the number of available Class B Liquor Licenses to seven (7), the number of Class B Liquor Licenses shall be increased back to eight (8) under Section 3-313 of the Villa Park Municipal Code.

Section 3: This Ordinance shall have no effect if Foremost Liquors does not sell its property to the Applicant.

Section 4. If any section, paragraph, clause, or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any other provision of this Ordinance.

Section 5. All ordinances, resolutions, motions, or orders in conflict with this Ordinance are hereby repealed to the extent of such conflict.

Section 6. This Ordinance shall be in full force and effect upon the last to occur:

i. its passage, approval and publication as provided by law;

ii. the surrender of the Class B Liquor License held by Foremost Liquors; and

iii. the completion of all licensing and statutory requirements and procedures by the Applicant, as provided by the Municipal Code of Villa Park and the Local Liquor Control Commissioner.

ADOPTED THIS ___DAY OF _____, 2026, pursuant to a roll call vote as follows:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED this _____day of _____, 2026

_____

Kevin Patrick, President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this _____day of _____, 2026

_____

Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

MEMORANDUM

TO: Village Board of Trustees

FROM:

DATE: September 14, 2026

SUBJECT: An Ordinance Conditionally Increasing the Number of Class D Liquor Licenses under Section 3-313(A) of the Villa Park Municipal Code

---

RECOMMENDED ACTION:
This ordinance would increase the number of available Class D liquor licenses when a current liquor store is purchased by a new owner. This ordinance was recommended by the Local Liquor Control Commission. This is a first reading.

BACKGROUND:
Ardmore Food and Liquor holds a Class D liquor license for the sale of packaged liquor. SV Food and Liquor LLC is buying the property located at 1638 S. Ardmore Avenue from Ardmore Food and Liquor. When Ardmore Food and Liquor ceases to operate, its Class D license will be surrendered. The number of available Class D liquor licenses will automatically be reduced by one. This Ordinance would increase the number of Class D liquor licenses by one to allow the purchaser to continue selling packaged alcohol on the property.

DISCUSSION:
To avoid any gap in selling packaged alcohol, this Ordinance would only take effect after Foremost Liquor surrenders its license. The Local Liquor Control Commissioner could then give the "new" license to the new owner.

To: Kevin Patrick and Village Board of Trustees

From: Villa Park Liquor Commission

CC: Mike Rivas, Village Manager

Date: 09.08.26

Re: Liquor License for SV Food and Liquor, LLC – Ardmore Food and Liquor

SV Food and Liquor LLC is purchasing Ardmore Food and Liquor to conduct business as new owners. The Class D license maintained by Ardmore Food and Liquor will be voluntarily surrendered upon the change of ownership and the sale of the business, which will automatically and immediately reduce the maximum number of Class D licenses by one. At that time, SV Food and Liquor LLC will not be allowed to sell alcohol, and there will be no available Class D liquor licenses as a result of the automatic termination.

At its September 1, 2026, meeting, the Local Liquor Control Commission considered the application of SV Food and Liquor LLC, which would be located at 1638 S. Ardmore Avenue. The food and liquor store is requesting a Class D liquor license, which is designed to authorize the sale at retail of alcoholic liquors, and only in the original packages, by persons engaged in the sale of foods and foodstuffs, commonly known as grocers or groceries and only as an incident to such drug or grocery business and not to be consumed on the premises described in the license.

The Local Liquor Control Commission recommends that the Village Board by ordinance increase the number of Class D licenses from 7 to 8, effective upon Ardmore Food and Liquor's surrender of its Class D license. The Liquor Commission also recommends that the Local Liquor Control Commissioner grant the newly created D liquor license to SV Food and Liquor LLC.

ORDINANCE NO. _____

AN ORDINANCE CONDITIONALLY INCREASING THE NUMBER OF CLASS D LIQUOR LICENSES UNDER SECTION 3-313(A) OF THE VILLA PARK MUNICIPAL CODE

WHEREAS, the Village of Villa Park (the "*Village*") is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and

WHEREAS, pursuant to Section 5/4-1 of the Liquor Control Act of 1934, as amended, (235 ILCS 5/4-1 et seq.) the Village President and Board of Trustees of the Village (the "*Corporate Authorities*") have the power, and are charged with the responsibility, to determine the number, kind and classification of liquor licenses that are available for the sale and distribution of alcoholic beverages within the Village; and

WHEREAS, a Class B-Full package, grocery or drug store liquor license ("*Class B Liquor License*") authorizes the sale at retail of alcoholic liquors, and only in the original packages, by persons engaged in the sale of foods and foodstuffs, commonly known as grocers or groceries and only as an incident to such drug or grocery business and not to be consumed on the premises described in the license; and

WHEREAS, SV Food and Liquor LLC (the "*Applicant*") is the contract purchaser of the establishment located at 1638 S. Ardmore Avenue, Villa Park (the "*Property*"), which currently operates as Ardmore Food and Liquor and which holds a Class D Liquor License; and

WHEREAS, the Class D Liquor License maintained by Ardmore Food and Liquor will be surrendered upon the sale of the business, which will automatically and immediately reduce the maximum number of Class D liquor licenses by one, pursuant to Section 3-315(d) of the Municipal Code of the Village of Villa Park; and

WHEREAS, the Applicant seeks to operate a new establishment also named Ardmore Food and Liquor, on the Property and has applied for a Class D liquor license; and

WHEREAS, the Local Liquor Control Commission recommends that the Corporate Authorities increase the number of Class D Liquor Licenses by one, conditioned upon the surrender of Ardmore Food and Liquor's Class D Liquor License and the automatic reduction in the number of Class D Liquor Licenses; and

WHEREAS, the Corporate Authorities find that it is in the best interest of the residents of the Village to accept the Local Liquor Control Commission's recommendations and amend the Municipal Code accordingly.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

Section 1: The above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2: When Ardmore Food and Liquor sells its property to the Applicant, surrendering its Class D Liquor License and automatically reducing the number of available Class 0044 Liquor Licenses to seven (7), the number of Class D Liquor Licenses shall be increased back to eight (8) under Section 3-313 of the Villa Park Municipal Code.

Section 3: This Ordinance shall have no effect if Ardmore Food and Liquor does not sell its property to the Applicant.

Section 4. If any section, paragraph, clause, or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any other provision of this Ordinance.

Section 5. All ordinances, resolutions, motions, or orders in conflict with this Ordinance are hereby repealed to the extent of such conflict.

Section 6. This Ordinance shall be in full force and effect upon the last to occur:

i. its passage, approval and publication as provided by law;

ii. the surrender of the Class B Liquor License held by Ardmore Food and Liquor; and

iii. the completion of all licensing and statutory requirements and procedures by the Applicant, as provided by the Municipal Code of Villa Park and the Local Liquor Control Commissioner.

ADOPTED THIS ___DAY OF _____, 2026, pursuant to a roll call vote as follows:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED this _____day of _____, 2026

_____

Kevin Patrick, President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this _____day of _____, 2026

_____

Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

MEMORANDUM

TO: Village Board of Trustees

FROM: Ryan Morton, Village Attorney

DATE: September 14, 2026

SUBJECT: An Ordinance of the Village of Villa Park Amending Section 14-115 of the Villa Park Municipal Code Regarding Electric Mobility Devices.

RECOMMENDED ACTION:
This Ordinance replaces the existing "Low-Speed Electric Scooters" provisions in the Village Code with a comprehensive "Electric Mobility Devices" section covering electric scooters, low-speed electric bicycles, low-speed gas bicycles, and motor-driven cycles. This is a second reading.

BACKGROUND:
Section 14-115 currently addresses only low-speed electric scooters. As these devices have become more common, the Police Department determined that the Code should be updated to define and regulate the broader range of electric mobility devices now in use, consistent with the Illinois Vehicle Code's authorization for local authorities to regulate mobile-carrying devices, bicycles, and low-speed electric or gas bicycles.

DISCUSSION:
The ordinance replaces Section 14-115 in its entirety with a new section that: defines electric personal assistive mobility devices, low-speed electric bicycles (Classes 1-3), low-speed electric scooters, low-speed gas bicycles, and motor driven cycles; establishes permitted-use rules and age, equipment, and labeling requirements for each device type, generally applying existing bicycle regulations except where specifically modified; sets certificate-of-title and registration requirements for motor driven cycles, all-terrain vehicles, off-highway motorcycles, and low-speed vehicles consistent with state law; and establishes a graduated fine schedule for violations, along with impoundment and surrender procedures for repeat offenses within a 12-month period.

ORDINANCE No. _____

AN ORDINANCE OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS, AMENDING SECTION 14-115 OF THE VILLA PARK MUNICIPAL CODE REGARDING ELECTRIC MOBILITY DEVICES

WHEREAS, the Village of Villa Park (the "*Village*") is a duly organized and validly existing non-home rule Illinois municipality created in accordance with the Constitution of the State of Illinois of 1970, as amended, and the laws of the State; and

WHEREAS, the Illinois Municipal Code, 65 ILCS 5/1-2-1, provides that the corporate authorities of each municipality may pass all ordinances and make all rules and regulations proper or necessary, to carry into effect the powers granted to municipalities, with such fines or penalties as may be deemed proper; and

WHEREAS, Section 11-208(a)(8) of the Illinois Vehicle Code, 625 ILCS 5/11- 208(a)(8), provides that local authorities may regulate the operation of mobile-carrying devices, bicycles, low-speed electric bicycles, and low-speed gas bicycles, and may require the registration and licensing of same, including the requirement of a registration fee; and

WHEREAS, the Village President and Board of Trustees of the Village (the "*Corporate Authorities*") may from time to time amend the text of the Villa Park Municipal Code when it is determined to be in the best interests of the residents of the Village; and,

WHEREAS, the Corporate Authorities of the Village of Villa Park have determined that it is in the best interests of the Village to permit, regulate, and promote responsible operation of electric mobility devices within the corporate limits of the Village, consistent with Section 1-140.10 of the Illinois Vehicle Code.

WHEREAS, the Corporate Authorities have determined that it is in the best interests of the health, safety, and welfare of the residents of the Village of Villa Park to amend the Villa Park Municipal Code as more particularly set forth hereinafter.

NOW, THEREFORE, BE IT ORDAINED, by the Village President and Board of Trustees of the Village of Villa Park, DuPage County, State of Illinois, as follows:

Section 1: The foregoing recitals shall be and are hereby incorporated herein as the findings of the Corporate Authorities.

Section 2: Section 14-115 ("*Low-Speed Electric Scooters*.") of Article I ("*In General*") of Chapter 14 ("*Motor Vehicles and Traffic*") of the Villa Park Municipal Code is hereby amended by deleting the entirety of Section 14-115 and replacing it to read as follows:

Sec. 14-115. – Electric Mobility Devices.

(a) *Definitions*. *Electric personal assistive mobility device*. A self-balancing, 2 non-tandem wheeled device designed to transport only one person with an electric propulsion system that limits the maximum speed of the device to 15 miles per hour or less.

Low-Speed Electric Bicycle. A "low-speed electric bicycle" shall mean a two- or three-wheeled vehicle with fully operable pedals and an electric motor of less than 750 watts, whose maximum speed on a paved level surface, when powered solely by such a motor, is less than 20 miles per hour. There are three classes of low-speed electric bicycles:

i. Class 1 – Low-speed electric bicycle equipped with a motor that provides assistance only when the rider is pedaling and ceases to provide assistance when the bicycle reaches speeds of 20 miles per hour.
ii. Class 2 – Low-speed electric bicycle equipped with a motor that can be used exclusively to propel the bicycle and cannot provide assistance when the bicycle reaches speeds of 20 miles per hours.
iii. Class 3 – Low-speed electric bicycle equipped with a motor that provides assistance only when the rider is pedaling and that ceases to provide assistance when the bicycle reaches a speed of 28 miles per hour.

A "Low-Speed Electric Bicycle" is not a Moped or a Motor Driven Cycle.

Low-Speed Electric Scooter. A "low-speed electric scooter" shall mean a device weighing less than 100 pounds, with 2 or 3 wheels, handlebars, and a floorboard that can be stood upon while riding, that is solely powered by an electric motor and human power, and whose maximum speed, with or without human propulsion, is no more than 10 miles per hour. A "low-speed electric scooter" does not include a moped or motor driven cycle.

Low-speed gas bicycle. A 2-wheeled or 3-wheeled device with fully operable pedals and a gasoline motor of less than one horsepower or 15 cubic centimeter displacement that is operated at speeds less than 20 miles per hour.

Motor driven cycle. Every motorcycle and every motor scooter with less than 150 cubic centimeter piston displacement, including motorized pedalcycles.

Pedestrian. Any person afoot or wearing in-line speed skates or riding a skateboard, including a person with a physical, 6hearing, or visual disability.

(b) *Permitted Use and Designated Areas.*

(1) Low-Speed Electric Bicycles. Except as otherwise provided in this Section, the Chapter that apply to bicycles also apply to low-speed electric bicycles and may only be operated in accordance with the following rules and regulations.

i. Each low-speed electric bicycle operating in this State shall comply with equipment and manufacturing requirements adopted by the United States Consumer Product Safety Commission under 16 CFR 1512. Each Class 3 low-speed electric bicycle shall be equipped with a speedometer that displays the speed the bicycle is traveling in miles per hour.

ii. Beginning on or after January 1, 2018, every manufacturer and distributor of low-speed electric bicycles shall apply a label that is permanently affixed to the bicycle in a prominent location. The label shall contain, in Arial font in at least 9-point type:

a. a classification number for the bicycle that corresponds with a class under Section 1-140.10 of this Code;
b. the bicycle's top assisted speed; and
c. the bicycle's motor wattage. No person shall knowingly tamper or modify the speed capability or engagement of a low-speed electric bicycle without replacing the label required under this subsection (c).
d. A Class 2 low-speed electric bicycle shall operate in a manner so that the electric motor is disengaged or ceases to function when the brakes are applied. A Class 1 low-speed electric bicycle and a Class 3 low-speed electric bicycle shall operate in a manner so that the electric motor is disengaged or ceases to function when the rider stops pedaling.
e. A person may operate a low-speed electric bicycle upon any highway, street, or roadway authorized for use by bicycles, including, but not limited to, bicycle lanes.
f. A person may operate a low-speed electric bicycle upon any bicycle path unless the municipality, county, or local authority with jurisdiction

prohibits the use of low-speed electric bicycles or a specific class of low-speed electric bicycles on that path.

g. A person may not operate a low-speed electric bicycle on a sidewalk.

h. A person may operate a Class 3 low-speed electric bicycle only if he or she is 16 years of age or older. A person who is less than 16 years of age may ride as a passenger on a Class 3 low-speed electric bicycle that is designed to accommodate passengers.

(2) Low-Speed Gas Bicycle.

i. A person may operate a low-speed gas bicycle only if that person is at least 16 years of age.

ii. A person may not operate a low-speed gas bicycle at a speed greater than 28 miles per hour upon any highway, street, or roadway.

iii. A person may not operate a low-speed gas bicycle on a sidewalk.

iv. Except as otherwise provided in this Section, the Provisions of Article that applies to bicycles also applies to low-speed gas bicycles.

(c) Low-Speed Electric Scooter. Except as otherwise provided in this Section, the provisions of this Chapter applicable to bicycles shall also apply to low-speed electric scooters, which may be operated only in accordance with the following rules and regulations:

i. Subject to the restrictions of this Section, a municipality, park district, forest preserve district, or conservation district may authorize and regulate the operation of low-speed electric scooters within its jurisdiction on any highways, sidewalks, trails, or other public rights-of-way where bicycles are permitted. The use of low-speed electric scooters within any such jurisdiction is permitted only when authorized by the applicable governing body. Any authorization or regulation by a park district, forest preserve district, or conservation district applies only to property owned, managed, or leased by that entity.

ii. Subject to the restrictions of this Section, the Department of Natural Resources may authorize and regulate the operation of low-speed electric scooters on any property owned, managed, or leased by the Department, including sidewalks, trails, and other public rights-of-way where bicycles are permitted. The Department may adopt administrative rules governing such use.

iii. A person may not operate a low-speed electric scooter on a highway with a posted speed limit greater than 35 miles per hour.

iv. A person may not operate a low-speed electric scooter unless he or she is 18 years of age or older.

v. A low-speed electric scooter may be parked in the same manner and in the same locations as a bicycle.

vi. When operated at nighttime, a low-speed electric scooter shall be equipped with:
   a. a front lamp emitting a white light visible from at least 500 feet; and
   b. a rear red reflector visible from distances of 100 to 600 feet when viewed under lawful low-beam headlamps; or
   c. a steady or flashing red rear light visible from at least 500 feet, which may be used in addition to or in lieu of a rear reflector.

vii. A low-speed electric scooter shall not be equipped with or use a siren, except for scooters operated as police or fire department vehicles.

viii. Every low-speed electric scooter shall be equipped with a brake capable of adequately controlling, stopping, and holding the scooter.

ix. A person may not operate a low-speed electric scooter while carrying any package, bundle, or article that prevents the operator from keeping at least one hand on the handlebars.

x. A person may not operate a low-speed electric scooter while carrying more than one person and may not attach the scooter or themselves to any other vehicle operating on a public right-of-way.

xi. A person may not operate a low-speed electric scooter on any public highway while under the influence of alcohol or any drug.

xii. Low-speed electric scooters are prohibited from operation on State highways.

xiii. Every low-speed electric scooter shall be maintained in good operating condition

(d) Motor Driven Cycles.

i. Certificate of Title Requirements.
   a. Every owner of a vehicle located within the State of Illinois for which no Illinois certificate of title has been issued shall apply to the Secretary of State for an Illinois certificate of title, unless otherwise exempted by law.
   b. Every owner applying for a duplicate or corrected certificate of title shall submit the appropriate application to the Secretary of State.
   c. Any certificate of title issued by an entity other than the Illinois Secretary of State showing an Illinois address for the owner shall be converted to an Illinois certificate of title prior to any transfer of ownership of the vehicle.

ii. Dealer Requirements.

a. A dealer required to obtain an Illinois certificate of title for a vehicle held for sale within the State shall not obtain an out-of-state certificate of title for that vehicle.
b. A dealer shall not obtain an out-of-state certificate of title in lieu of an Illinois-issued dealer lien release certificate of title.
c. Nothing herein shall be construed to permit a dealer to acquire an out-of-state certificate of title in place of an Illinois certificate of title for any vehicle held for sale within the State.

iii. Motor Driven Cycles.
a. Every owner of a motorcycle or motor driven cycle purchased new shall apply to the Secretary of State for a certificate of title.
b. Any motorcycle or motor driven cycle not properly manufactured or equipped for highway use may be issued a distinctive certificate of title but shall not be eligible for registration except as otherwise provided by law.

iv. Registration Requirement. No vehicle shall be registered or have its registration renewed unless a certificate of title has been issued by the Secretary of State or an application for such certificate has been properly submitted.

v. All-Terrain Vehicles and Off-Highway Motorcycles. Every owner of an all-terrain vehicle or off-highway motorcycle shall apply to the Secretary of State for a certificate of title as required by State law.

vi. Low-Speed Vehicles. Every owner of a low-speed vehicle shall apply to the Secretary of State for a certificate of title as required by State law.

(e) *Violations—Penalty*. Any person who violates any of the provisions of this section shall be subject to a fine of not less than $35.00 if paid within 10 days, $75.00 after 10 days but before the 1st hearing date, $125.00 upon appearance at the 1st hearing date but before the 2nd hearing date, and $250.00 upon non-appearance at the 2nd hearing date.

In addition to fines as set forth hereinabove, any person who has been issued a citation for the same offense under this Article and found guilty or pled guilty to such citation within the previous 12 months shall, at the time of issuance of the second such citation for the same offense, be required to surrender the low-speed electric bicycle or low-speed gas bicycle to the police officer or other authorized officer of the Village who issues the citation. The surrendered low-speed electric bicycle or low speed gas bicycle shall be

impounded and held by the Police Department and shall be returned to the owner only after one of the following conditions is met: (1) The person to whom the citation was issued has paid all outstanding fines or registration fees related to the citation as well as fees and costs incurred by the Village in connection with the impoundment, storage, and release of the low-speed electric bicycle or low-speed gas bicycle, in an amount of $150.00. (2) The person to whom the citation was issued has presented to the Police Department proof that a determination of not guilty or dismissal was entered in relation to the cited offense.

Section 3. The Village Manager is hereby authorized and directed to take such actions as may be necessary to implement and enforce the provisions of this Ordinance.

Section 4: If any section, paragraph, clause, or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any other provision of this Ordinance.

Section 5. All ordinances or parts of ordinances in conflict with this Ordinance are hereby repealed to the extent of such conflict.

Section 6. This Ordinance shall be in full force and effect from and after its passage, approval, and publication as provided by law.

(*intentionally left blank)*

ADOPTED THIS _____ DAY OF _____, 2026, pursuant to a roll call vote as follows:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED this _____day of _____, 2026

_____

Kevin Patrick, President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this _____day of _____, 2026

_____

Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

MEMORANDUM

TO: Village Board of Trustees

FROM: Ryan Morton, Village Attorney

DATE: September 14, 2026

SUBJECT: An Ordinance of the Village of Villa Park, DuPage County, Illinois, Amending Chapter 3 ("Alcoholic Liquor") of the Village Code to Revise Provisions Relating to the Local Liquor Control Commission, Alcoholic Liquor Licensing and Regulation

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RECOMMENDED ACTION:
The Local Liquor Control Commission recommends amending Chapter 3 of the Village Code regarding Commission structure and application procedures. This is the second reading; the first reading was on August 24, 2026, where the Village Board sent the revisions back to the Local Liquor Control Commission for further review. The recommended amendment has been changed based on that review.

BACKGROUND:
The Local Liquor Control Commission determined that several provisions of Chapter 3 needed updating to improve the Commission's operations and strengthen its licensing and enforcement authority. At the August 24th Village Board meeting, Trustee Cordova and Trustee Konstatos requested clarification regarding fingerprinting requirements, the change-in-use provisions, the initial application fee, and the Village President's role on the Local Liquor Control Commission. Those questions were forwarded to the Local Liquor Control Commission for consideration along with recommended changes from the Village Attorney. At its September 1st meeting, the Local Liquor Control Commissioner and Commission members discussed the proposed changes and voted to recommend approval of the revised ordinance.

DISCUSSION:
The ordinance, as amended following the September 1st meeting, removes the Village President as a voting member and chairperson of the five-member Commission — the President will still appoint all five members and designate the chairperson and vice-chairperson, but will no longer sit as chair or vote on Commission matters.

It expands fingerprinting and investigation requirements to cover the manager and any person involved in day-to-day operations of the business, not just the applicant, and adds a notice requirement (new Sec. 3-304.1) when a licensee changes managers, owners, or other key business

information.

It removes the requirement for a repeat background investigation every five years while keeping the five-year fingerprinting renewal, and it aligns the standard for false statements or omissions across the eligibility and penalty sections so both use the same "material fact" standard.

On fees, it deletes the classification-based original issuance fee (up to $3,000) and replaces it with a flat $1,000 uniform initial license fee, except for Class G, J, and K licenses, which keep their existing per-day fee structure ($75/day, no fee, and $10/day, respectively).

Finally, it adds a new definition and process for a "change in use" of a licensed premises (Sec. 3-320), requiring prior written approval and a new application before a material change in business type, alcohol sold, gaming/entertainment, or physical footprint takes effect.

ORDINANCE NO. _____

AN ORDINANCE OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS, AMENDING CHAPTER 3 ("ALCOHOLIC LIQUOR") OF THE VILLAGE CODE TO REVISE PROVISIONS RELATING TO THE LOCAL LIQUOR CONTROL COMMISSION, ALCOHOLIC LIQUOR LICENSING AND REGULATION

WHEREAS, the Village of Villa Park (the "*Village*") is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and

WHEREAS, the Village President and Board of Trustees of the Village (the "*Corporate Authorities*") may from time to time amend the Village Code when it is determined to be in the best interests of the residents of the Village; and

WHEREAS, Chapter 3 ("*Alcoholic Liquor*") of the Village Code governs the licensing and regulation of the sale of alcoholic liquor within the Village, including the composition, membership, and duties of the Local Liquor Control Commission; and

WHEREAS, the Local Liquor Control Commission recommends that the Corporate Authorities revise the appointment, training, and leadership structure of the Local Liquor Control Commission, strengthen periodic background investigation, establish eligibility restrictions and penalties for false statements made to the Local Liquor Control Commission, restructure certain license fee provisions and to require a new application upon a change in use of a licensed premises; and

WHEREAS, the Corporate Authorities find that it is in the best interest of the residents of the Village to accept the Local Liquor Control Commission's recommendations and amend the Municipal Code accordingly.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Villa Park, DuPage County, State of Illinois, as follows:

Section 1: The above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2: Section 3-202 ("*Local liquor control commission created*") of Article II ("*Local Liquor Control* Commission of Chapter 3 ("*Alcoholic Liquor*") of the Villa Park Municipal Code is hereby amended by deleting the struck-through language and adding the underlined language to read as follows:

Sec. 3-202. - Local liquor control commission created.

(a) **Created; membership.** A local liquor control commission is created which shall be composed of five (5) members, who shall be appointed by the village president. The village president shall not be a member of the commission ~~and chairperson, however the village president shall not vote on any matter before the local liquor control commission~~. ~~The remaining four (4) members shall be appointed by the village president.~~ The members shall be qualified electors of the village who have resided therein for one (1) year immediately preceding their appointment. Members shall complete alcohol awareness, liquor law, or responsible beverage service training approved by the Local Liquor Control Commission within 90 days of appointment. The village president shall also name two of the appointed members of the commission as the chairperson and vice-chairperson of the commission, respectively.

(b) **Term.** The term of the appointed members shall be one (1) year. Members shall hold office for their designated terms and until their successors have been appointed.

(c) **Meetings, purpose and duties.** The ~~chairman~~ chairperson shall preside over all meetings of the local liquor control commission. The vice-chairperson shall preside in the absence of the chairperson or when the chairperson is unable to perform their duties. The purpose of the local liquor control commission shall be to assess and make recommendations regarding liquor license applications, to assess and make recommendations regarding liquor ordinances within the village, and conduct formal disciplinary hearings involving any licensee and make disciplinary recommendations following those hearings. In furtherance of those purposes, the commission shall have and exercise the following powers and duties:

(1) To review and assess original and renewal applications submitted to the local liquor control commissioner as provided in Article 3 of this Chapter.

* * *

Section 3: Chapter 3 ("*Alcoholic Liquor*") of the Villa Park Municipal Code is hereby amended by adding a new Section 3-304.1, as underlined below, to read as follows:

Sec. 304.1. - Changes From Application

Following the issuance of any liquor license, every licensee shall notify the Local Liquor Commissioner in writing of every change in the licensee's managers, partners, officers, members, directors, persons holding directly or beneficially an aggregate of more than five (5) percent ~~of the stock or~~ ownership interest in the licensee, or managers of the licensed premises, or the licensee's address, legal name, or assumed name. The licensee is required to provide notice under this section prior to any such change. Any person becoming a manager, partner, officer, member, director, premises manager, or person holding such ownership interest shall meet all of the applicable standards and requirements of this chapter for issuance of a liquor license. Failure to comply with any requirement of this subsection shall subject the liquor license to possible suspension or revocation.

Section 4: Section 3-305 ("*Investigation and fingerprinting of applicant*") of Article III ("Licenses") of Chapter 3 ("*Alcoholic Liquor*") of the Villa Park Municipal Code is hereby amended by adding the underlined language to read as follows:

Sec. 3-305. - Investigation and fingerprinting of applicant.

(a) No license shall be issued pursuant to the provisions of this chapter until the applicant, manager of the premises, and any other person involved in the day-to-day operations of the business ~~shall~~ have been investigated by the local liquor control commission and a report filed in the records of the commission approving the issuance of such license. As a part of this investigation, all new applicants not heretofore licensed or any manager or other person involved in the day-to-day operations of the business not heretofore approved shall be fingerprinted and photographed by the village police department. A copy of fingerprint cards and photographs shall be held on record by the police department and a copy of the same shall be held by the local liquor control commission.

(b) Completed investigations for license applications shall be valid for a period of ninety (90) days after the license applicant has been notified of approval by the local liquor control commissioner. Any applicant who fails to take all required action, including payment of original issuance fee and annual fee, to obtain a license within ninety (90) days after notification shall not be eligible for a license until a new background investigation is completed and additional investigation fees paid.

(c) In addition to the initial investigation required herein, all licensees, managers, and other individuals required to submit fingerprints shall undergo updated fingerprinting every five (5) years. Such updated investigation shall be required as a condition of license renewal. The applicant or licensee shall be charged an investigation fee separate from the application.

Section 5: Section 3-309 ("*Persons eligible for license*") of Article III ("*Licenses*") of Chapter 3 ("*Alcoholic Liquor*") of the Villa Park Municipal Code is hereby amended by deleting the struck-through language and adding the underlined language to read as follows:

Sec. 3-309. - Persons eligible for license.

No retail liquor license shall be issued to:

(1) A person who is not of good character and reputation in the community in which ~~he~~ they reside.

* * *

(22) A person who knowingly makes a false statement, misrepresentation, or omission of material fact in any application, renewal, report, or other submission to the local liquor control commission.

Section 6: Chapter 3 ("*Alcoholic Liquor*") of the Villa Park Municipal Code is hereby amended by adding a new Section 3-309.2, as underlined below, to read as follows:

Sec. 3-309.2. - False statements; penalties.

Any applicant or licensee who knowingly makes a false statement, misrepresentation, or omission of material fact in its dealings with to the local liquor control commission shall be subject to suspension or revocation of its license, and/or fines, as determined by the local liquor control commissioner in accordance with this chapter, and may also be subject to prosecution and any other remedies or penalties permitted under applicable law.

Section 7: Section 3-314 ("*Original issuance fee*") of Article III ("*Licenses*") of Chapter 3 ("*Alcoholic Liquor*") of the Villa Park Municipal Code is hereby amended by deleting Section 3-314 in its entirety and amended by adding the underlined language to read as follows:

Sec. 3-314. – Reserved.

Section 8: Section 3-316 ("*Annual fee*") of Article III ("*Licenses*") of Chapter 3 ("*Alcoholic Liquor*") of the Villa Park Municipal Code is hereby amended by deleting the struck-through language and adding the underlined language to read as follows:

Sec. 3-316. - ~~Annual fee.~~ License Fees

(a) The ~~annual~~ license fee for liquor licenses in the village shall be as follows commencing January 1, ~~2024:~~ 2027:

(Note: License fee table, classifications, and amounts remain unchanged and are not reproduced here.)

* * *

(d) In addition to the ~~annual~~ license fee set forth herein, there is hereby established a uniform initial license fee of one thousand ($1,000.00) dollars. Notwithstanding the foregoing, licensees applying for a Class G, Class J, or Class K liquor license shall be exempt from the uniform initial license fee and shall instead pay the applicable fee of $75.00 per day for a Class G license, no fee for a Class J license, and $10.00 per day for a Class K license.

(e) The initial license fee shall apply equally to all license classifications. Such fee shall be paid at the time of application and shall be nonrefundable.

(f) No initial license fee shall be required for the renewal of an existing license unless the applicant is required to submit a new application pursuant to this chapter.

Section 9: Chapter 3 ("*Alcoholic Liquor*") of the Villa Park Municipal Code is hereby by amended by deleting Section 3-320 in its entirety and by adding the underlined language to read as follows:

Sec. 3-320. – ~~Reserved.~~ Change in use of licensed premises.

(a) Definition. As used in this Section, "change in use" means a material change in the nature of business, type of alcoholic liquor sold or manner of operation of the business conducted on the licensed premises from that described in the then-current approved license application, including but not limited to: (1) a change in the type of alcoholic liquor sold if that liquor is not allowed under the current license classification under this Chapter; (2) the addition or removal of gaming, video gaming terminals, or live entertainment; (3) the addition, construction, or expansion of an outdoor patio or other outdoor service area; (4) a material expansion, contraction, or alteration of the physical footprint or floor plan of the licensed premises; or (5) a material change in the business concept, format, or primary mode of operation under which the licensed premises operates, if such a change would invoke a different license classification under this Chapter. A change in ownership or management alone, without a corresponding change described in this subsection, does not constitute a change in use.

(b) Any change in the use of the premises described in license issued pursuant to this chapter shall require the prior written approval of the Local Liquor Control Commissioner. A licensee shall not change the use of the premises described in the license without first obtaining the written approval. Any licensee intending to change the use of the premises

shall submit a new license application to the Local Liquor Control Commissioner in accordance with the requirements of this chapter. Such application shall be submitted prior to the proposed change in use taking effect. Within 30 days after submission of a new complete application, the local liquor control commissioner shall issue a written determination of the change of use. If the Local Liquor Control Commissioner determines the proposed change in use would be in compliance with the provisions of this chapter, written approval shall be granted and a new local liquor license is issued for the premises. The existing local liquor license shall automatically terminate upon issuance of the new local liquor license. A licensee that changes the use of the premises without first obtaining the written approval of the Local Liquor Control, or licensee that makes changes to the use that substantially differ from those described in the new application may be subject to revocation of its existing local liquor license in accordance with this chapter.

Section 10: If any section, paragraph, clause, or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any other provision of this Ordinance.

Section 11: All ordinances, resolutions, motions, or orders in conflict with this Ordinance are hereby repealed to the extent of such conflict.

Section 12: This Ordinance shall be in full force and effect upon the last to occur its passage, approval and publication as provided by law.

(*Intentionally Left Blank*)

Ordinance No. _____

ADOPTED THIS ___DAY OF _____, 2026, pursuant to a roll call vote as follows:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED this _____day of _____, 2026

_____

Kevin Patrick, President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this _____day of _____, 2026

_____

Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

MEMORANDUM

TO: Village Board of Trustees

FROM: Ryan Morton, Village Attorney

DATE: September 14, 2026

SUBJECT: An Ordinance of the Village of Villa Park, DuPage County, Illinois Approving a Special Use for a Planned Unit Development, Site Plan and Plat of Subdivision at 351-415 N. Ardmore Avenue and 400-416 N Beverly Avenue, Villa Park, Illinois (HawthorneWorld Villa Park LP)

RECOMMENDED ACTION:
This Ordinance would approve Petition ZBA 25-10 seeking a mixed-use planned unit development on the vacant land northwest of the train station. The Zoning Board of Appeals (5-1) recommends approval of the PUD, and the Plan Commission (4-0) recommends approval of the Plat of Subdivision and Site Plan.

BACKGROUND:
The Applicant, HawthorneWorld Villa Park LP, proposes building a 7-story, 348-unit mixed-use building with ground-floor commercial and restaurant space and an enclosed parking garage. A similar planned unit development was approved at this location from this developer in 2021, but the project stalled out after the developer's primary construction lender withdrew. The Village and Developer subsequently amended the Redevelopment Agreement to extend project deadlines, but the RDA was ultimately terminated. A brand new application was filed.

As part of the current application, the Petitioner submitted revised plans and additional information addressing comments from Village staff and the Zoning Board of Appeals. Items reviewed included building architecture and materials, landscaping, site lighting, signage, parking, bicycle facilities, and other site-related considerations. Due to the history of the property and the prior project not proceeding to construction, the Village also requested additional information regarding the Developer’s financial capacity to complete the proposed development. The Developer has withdrawn its request for public funding beyond the bond proceeds it received under the original RDA, which was used primarily to purchase the land. Those bonds will be paid back by tax increment generated from the development of the property.

The Plat of Subdivision would consolidate the multiple lots comprising the property into a single lot and provide for the vacation of certain public rights-of-way that are no longer necessary. The Plan

Commission recommended approval of the Site Plan with some conditions regarding traffic flow and parking.

DISCUSSION:
The exhibits attached to this Ordinance consist of the plans, studies, applications, and supporting documentation submitted as part of the petition packet and reviewed by the Village in connection with the proposed development. These materials are incorporated herein by reference and provide additional background and detail regarding the proposed development and the approvals granted by this Ordinance.

Also included in the packet are the recommendations from the Zoning Board of Appeals and Plan Commission, a memo regarding the project from the Community and Economic Development Department, a memo regarding the standards and conditions of a PUD from the Village Attorney, and a financing assessment from Artisan Advisors, LLC.

MEMORANDUM

TO:	Village Board of Trustees
FROM:	Ryan Morton, Village Attorney
DATE:	September 14, 2026
SUBJECT:	Standards and Conditions for Planned Unit Developments

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When considering whether to approve a special use permit for a planned unit development (PUD), the Villa Park Zoning Ordinance provides that the Village Board must determine that a series of standards have been satisfied. Some of those standards are the same as any other special use application, but there are also additional standards for a PUD. Each of these standards must be deemed satisfied before the Village Board can approve a PUD. The Village Board also has the option of adding conditions to the PUD permit that would allow those standards to be met.

SPECIAL USE STANDARDS:
See §11.4.8 of the Zoning Ordinance

To approve a special use, the Village Board must first determine that the proposed special use is consistent with and in substantial compliance with all village **board policies and plans**.

In addition, the Village Board must determine that the applicant has presented evidence to support each of these conclusions:

(A) **Expressly Authorized.** That the proposed use or activity is expressly authorized as a special use;

(B) **Necessary for Public Convenience and General Welfare**. That the proposed use at the proposed location is necessary or desirable to provide a service or a facility that is in the interest of public convenience and will contribute to the general welfare of the neighborhood or community;

(C) **Not Detrimental or Injurious to Neighbors.** That the proposed use will not, in the particular case, be detrimental to the health, safety, or general welfare of persons residing or working in the vicinity or be injurious to property values or improvements in the vicinity.

(D) **Not Impede Surrounding Development.** That approval of the special use will not impede the normal and orderly development and improvement of surrounding property for uses permitted in the district;

(E) **Adequate Services**. That the proposed special use will be served by adequate utilities, access roads, parking, drainage and other important and necessary facilities, infrastructure and community services; and

(F) **Code Compliance.** That the proposed special use complies with all applicable regulations of this zoning ordinance except as expressly approved in accordance with the procedures of this zoning ordinance.

PLANNED UNIT DEVELOPMENT STANDARDS:
See §11.3.10 of the Zoning Ordinance

In making its recommendation to the Village Board on a PUD, the Zoning Board of Appeals must determine that six standards have been satisfied. Approval by the Village Board presumes agreement that these standards have been considered and satisfied.

(1) **Requirements and Design Standards.** In what respect does the design of the planned unit development meet the requirements and design standards of this Code.

(2) **Deviations**. The extent to which the proposed plan deviates and/or requires exceptions to the bulk regulations in the zoning ordinance and how the modifications in design standards from the subdivision control regulations fulfill the intent of those regulations.

(3) **Public Benefit.** The extent of public benefit produced by the planned unit development, such as, but not limited to, the adequacy of common open space and/or public recreational facilities provided; sufficient control over vehicular traffic; provision of public services; provision and protection of the reasonable enjoyment of the land.

(4) **Compatibility with Adjacent Properties.** The relationship and compatibility, beneficial or adverse, of the planned unit development to the adjacent properties and nearby land uses.

(5) **Future Planning.** The extent to which the planned unit development fulfills the objectives of the future planning objectives or other planning policies of the village.

(6) **Special Use Standards.** The planned unit development satisfactorily meets the standards for special use as defined in section 11.4.8 of this section.

CONDITIONS:
See §11.4.7 of the Zoning Ordinance

The Village Board is authorized to impose conditions and restrictions on a special use to ensure compliance with the Standards above, to reduce or minimize the effect of the special use on other properties in the area, and to better carry out the general purpose and intent of the Zoning Ordinance.

Regarding the proposed PUD by HawthorneWorld Villa Park, L.P., the Village Board previously approved Ordinance No. 4229, granting a special use permit for a PUD on the same property, which has since expired. That Ordinance included the following conditions that Staff recommends including on the new ordinance:

1. Development in substantial compliance with the site plan prepared.

2. Expansion of the Metra parking lot on the east side of Beverly Lane be constructed of permeable pavers.

3. Implementation of two way traffic on Terrace Street between Ardmore Avenue and Beverly Avenue, which can be accommodated based on the existing right- of-way area, i.e. make the entrance into the Metra lot from N. Ardmore two (2) way.

4. Resurfacing the Metra parking lot when the project is substantially complete. This resurfacing would include replacement of stormwater inlets and the regrading of the lot to facilitate better drainage.

5. Connection of the internal storm drainage system of the project i.e. roof drains, pool deck, etc. to the existing Metra parking lot storm mains. These mains drain directly into the regional detention basin.

6. Compliance with all applicable Village Codes and regulations.

7. Obtaining all necessary permits/ certifications for development, including a building permit, right- of-way permit, and a storm water certification.

8. Hawthorne providing quarterly construction updates.

The Village Board can choose to apply the same conditions (if still applicable), in addition to other conditions. The ZBA and Director Nolin have proposed conditions, as detailed in Nolin's memo, which establish a required procedure for submitting revised plans on issues important to the ZBA.

If the Village Board is inclined to approve this PUD, I also recommend including certain conditions relating to development benchmarks in light of the history surrounding this project. Those conditions could include:

a) Within 30 days of approval of this ordinance, the Applicant shall eliminate all liens on the parking lot parcels and convey those parcels via quit claim deed to the Village, as agreed in the original redevelopment agreement.

b) Within 90 days of approval of this ordinance, the Applicant shall provide the Village with final commitments from its construction lender (US Capital) and its equity investor (EcoTherm OpCo 1 LLC) to fully fund the project in accordance with the Applicant's budget.

c) Within 120 days of approval of this ordinance, the Applicant shall close on its construction loan and equity investment and provide proof of closure to the Village, including evidence of the lender's and the investor's funds having been deposited in an escrow account for the Applicant's use.

d) Within 90 days of approval of this ordinance, the Applicant shall have obtained all permits required to complete the project.

e) Within 180 days of approval of this ordinance, the Applicant shall begin construction of the project.

ORDINANCE NO. _____

AN ORDINANCE OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY ILLINOIS APPROVING A SPECIAL USE FOR A PLANNED UNIT DEVELOPMENT, SITE PLAN, AND PLAT OF SUBDIVISION AT 351-415 N. ARDMORE AVENUE AND 400-416 N. BEVERLY AVENUE (HAWTHORNEWORLD VILLA PARK LP)

WHEREAS, the Village is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State of Illinois; and

WHEREAS, the President and Board of Trustees of the Village (the "*Corporate Authorities*") have adopted and from time to time amended the Village of Villa Park Zoning Ordinance (the "*Zoning Ordinance*"), pursuant to the authority granted under Division 13 of Article 11 of the Illinois Municipal Code (65 ILCS 5/11-13-1 *et seq.*); and

WHEREAS, on June 14, 2021, the Corporate Authorities adopted Ordinance No. 4229, granting a special use for a planned unit development at 351-415 N. Ardmore Avenue, 350-416 N. Beverly Avenue, and 403-409 N. Beverly Avenue, within the North Ardmore/Vermont Redevelopment Project Area ("*TIF District No. 6*"), pursuant to Application PZ-21-0004 filed by Hawthorne Development Corporation (the "*Developer*"); and

WHEREAS, on August 23, 2021, the Village and the Developer entered into a Redevelopment Agreement (the "*RDA*"), providing for Village reimbursement of certain redevelopment project costs through bond proceeds; and

WHEREAS, in September 2021, Developer's primary construction lender withdrew from the project, leaving Developer unable to obtain the financing necessary to complete construction, though Developer was able to demolish buildings on the property and to construct a parking lot to be deeded to the Village; and

WHEREAS, the RDA was amended twice to give the Developer more time to complete the approved project, but financing never materialized, leading to termination of the RDA and expiration of the Developer's special use permit for a planned unit development; and

WHEREAS, Hawthorneworld Villa Park LP (the "*Applicant*" and "*Owner*"), an affiliate of Developer and owner of the Subject Property defined below, filed a new application (the "*Application*") requesting approval of a Special Use Permit for a Planned Unit Development (the

"*Proposed Planned Unit Development*" or "*Proposed PUD*"), together with associated zoning relief, on the property commonly known as 351-415 N. Ardmore Avenue and 400-416 N. Beverly Avenue, Villa Park, Illinois, legally described in Exhibit A attached hereto and incorporated herein by reference (the "*Subject Property*"); and

WHEREAS, the Proposed PUD consists of a 7-story, 348-unit mixed-use building with ground-floor commercial and restaurant space and an enclosed parking garage across from the train station on the Subject Property, which is vacant and zoned in the transit-oriented MX-1 District; and

WHEREAS, the Applicant further requested approval of certain modifications and waivers from the strict requirements of the Village Zoning Ordinance, as specified herein; and

WHEREAS, Notice of Public Hearing was given as required by the statutes of the State of Illinois and the ordinances of the Village; and

WHEREAS, the Villa Park Zoning Board of Appeals (the "*ZBA*") conducted public hearings on December 10, 2025 and January 14, 2026 (the "*Public Hearings*"), at which all interested persons were afforded an opportunity to present testimony and evidence concerning the Proposed Planned Unit Development and requested zoning relief; and

WHEREAS, following the Public Hearings, the ZBA reviewed the application, plans, staff report, testimony, exhibits, and all evidence presented, including all revised versions provided at the second public hearing, and recommended approval of the requested Special Use Permit for the Planned Unit Development, together with the requested waivers and subject to certain conditions; and

WHEREAS, contemporaneously with the ZBA's consideration of the Proposed PUD, the Plan Commission considered and recommended for approval a plat of consolidation submitted by Applicant pursuant to the Village's Subdivision Regulations to combine the multiple lots and parcels comprising the Subject Property into a single lot (the "*Plat of Subdivision*"), together with the vacation of certain public rights-of-way no longer required as a result of such consolidation, as more fully set forth in the Plan Commission's written recommendation; and

WHEREAS, pursuant to Section 11.3.8 of the Zoning Ordinance, the Plan Commission also reviewed and recommended for approval, with conditions, the proposed site plan for the Subject Property (the "*Site Plan*"), subject to the considerations addressed in the Plan Commission's written recommendation; and

WHEREAS, Applicant has requested that the Corporate Authorities approve the Plat of Subdivision and the Site Plan concurrently with the Special Use for a Planned Unit Development granted herein; and

WHEREAS, following discussions with the Applicant regarding the financing sources for the project and staff's review of the Applicant's financial documents, the Corporate Authorities received the recommendations of the ZBA and Plan Commission; and

WHEREAS, the Corporate Authorities have duly considered the recommendations and findings of fact of the ZBA and Plan Commission, along with the Application itself and all other relevant materials, and have determined that approval of the requested Special Use Permit for a Planned Unit Development, as recommended by the ZBA, with conditions, and approval of the requested Plat of Subdivision and Site Plan, with conditions, are consistent with the ordinances of the Village; and

WHEREAS, the Corporate Authorities further determine that approval of the Proposed Planned Unit Development, subject to the conditions contained herein, will promote the orderly redevelopment of the Subject Property, encourage investment near the train station, and further the goals of the Village Comprehensive Plan; and

WHEREAS, the Corporate Authorities deem it advisable and in the best interest of the health, safety, and welfare of the residents of the Village to grant the Special Use Permit for the Planned Unit Development, subject to the conditions identified herein.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS as follows:

Section 1. The forgoing recitals are hereby incorporated by reference as if fully set forth herein.

Section 2. The Subject Property is currently zoned within the zoning classification of MX-1 Mixed-Use TOD District, which zoning classification shall remain in effect subject to the PUD approved herein.

Section 3. The Corporate Authorities hereby adopt the findings and recommendations of the Zoning Board of Appeals as findings of the Village Board. In accordance with Section 11.4.8 of the Zoning Ordinance, the Corporate Authorities specifically find that the proposed Special Use:

A. Is expressly authorized as a Special Use within the MX-1 Mixed-Use TOD District.
B. Will provide a desirable or necessary commercial redevelopment that is in the interest of public convenience and will contribute to the general welfare of the neighborhood or community.
C. Will not, in the particular case, be detrimental to the health, safety, or general welfare of persons residing or working in the vicinity or be injurious to property values or improvements in the vicinity.
D. Will not impede the normal and orderly development or redevelopment of surrounding properties.
E. Will be served by adequate utilities, access roads, parking, drainage and other important and necessary facilities, infrastructure, and community services.
F. Complies with the applicable standards of the Village Zoning Ordinance except for those deviations expressly approved by this Ordinance.

Section 4. Furthermore, the Corporate Authorities have considered the conditions for approval of a special use for a planned unit development as contained in Section 11.3.10 of the Zoning Ordinance, and find that:

A. The Proposed PUD's design meets the requirements and design standards of the Zoning Ordinance;
B. The Proposed PUD's deviations or exceptions to the bulk regulations in the Zoning Ordinance are not extensive, and the modifications in design standards from the subdivision control regulations fulfill the intent of those regulations;
C. The Proposed PUD will produce a large public benefit with vehicular traffic control, provision of services to the public, and protection of the reasonable enjoyment of the land;
D. The Proposed PUD is compatible with and will benefit adjacent properties and nearby land uses;
E. The Proposed PUD greatly fulfills the future planning objectives or other planning policies of the Village; an
F. The Zoning Board of Appeals finds that the Proposed PUD satisfactorily meets the standards for a special use as defined in Section 11.4.8 of the Zoning Ordinance, as detailed above.

Section 5. The Corporate Authorities hereby approve and grant a Special Use Permit for a Planned Unit Development for the Subject Property to permit the construction of a 7-story mixed-use building with 348 residential units, ground floor commercial, retail, and restaurant space, residential amenity space, and an enclosed parking garage, together with associated site improvements, parking improvements, utilities, and appurtenant facilities, all in substantial conformance with the plans and documents incorporated herein.

Section 6. As part of the Planned Unit Development approved herein, the following waivers and modifications from the Village Zoning Ordinance are hereby approved based upon the findings set forth in this Ordinance and the record of the Public Hearing:

A. Upper Story Window Standards. A waiver from Section 4.7.2.A to permit casement-panel windows on residential units in lieu of recessed, double-hung windows;

B. Front Build-to Zone: A waiver from Section 4.4.2.A.2 to permit a setback of up to 14.2 feet on the south façade and up to 7.63 feet on the north façade;

C. Corner Build-to-Zone: A waiver from Section 4.4.2.A.3 to permit setbacks of up to 7.63 feet (northeast corner), 35.07 feet (northwest corner), 14.19 feet (southwest corner), and 11.29 feet (southeast corner);

D. Maximum Impervious Cover: A waiver from Section 4.4.2.A.6 to permit impervious cover of approximately 93.16%, in lieu of the 75% maximum otherwise required;

E. Permitted Garage Entrance Location: A waiver from Section 4.4.2.A.9 to permit one garage/service entrance each on the north (trash room) and south (garage) façades;

F. Primary Frontage Minimum Ground Story Transparency: A waiver from Section 4.4.2.D.17 to permit transparency of approximately 13.34% on the north façade and 19.90% on the south façade, in lieu of the 75% minimum otherwise required;

G. Entrance Location and Number: A waiver from Section 4.4.2.D.20 to permit the principal entrance on a side façade, and pedestrian entrance spacing of up to 191.16 feet on the north façade and up to 106 feet on the south façade;

H. Entryway Configuration and Elevation: A waiver from Section 4.4.2.D.21 to permit entrances that are not recessed into the building;

I. Primary Façade Materials: A waiver from Section 4.7.1.A to permit the use of concrete masonry units (CMU) as a primary building material;

J. Principal Entryway: A waiver from Section 4.7.7 to permit a principal entrance without a cap or canopy, with vertical articulation not exceeding two stories;

K. Maximum Illumination: A waiver from Section 9.4.4 to permit up to 0.9 footcandles abutting the public right-of-way;

L. General Regulations (Wallpack Fixtures): A waiver from Section 9.4.3 to permit the fixture(s) identified in the approved photometric plan, subject to the condition set forth below;

M. Access: A waiver from Section 7.9.6 to permit driveway/curb-cut widths of up to 26 feet at the Beverly Avenue and Terrace Street garage exits;

N. Landscape and Screening (Shade Trees): A waiver from Section 9.1.5.C.2.a to permit four shade trees along the north property line (in lieu of six) and to permit the number of shade trees along the south property line reflected in the Petitioner's final approved landscape plan (in lieu of six);

O. Minimum Parking Ratios: A waiver from Section 7.2 to permit shared parking calculations resulting in a deviation of up to 8 spaces from the Code-required minimum, subject to reconsideration if the retail/commercial space is leased in whole or in part as a restaurant.

Section 7: The Corporate Authorities hereby approve the Plat of Subdivision submitted by Applicant, consolidating the lots and parcels comprising the Subject Property into a single lot and vacating the public rights-of-way identified therein, a copy of which is attached hereto as Exhibit B, specifically B-5, consistent with the recommendation of the Plan Commission. The officials, officers, employees, engineers, and attorneys of the Village are hereby authorized to take any actions necessary on behalf of the Village to execute and ensure the recording of the Plat of Subdivision with the DuPage County Recorder by Applicant.

Section 8: The Corporate Authorities hereby approve the Site Plan submitted by Applicant, a copy of which is attached hereto as Exhibit B, specifically B-8, consistent with the recommendation of the Plan Commission signed January 21, 2026, and subject to the following conditions:

A. Applicant shall establish a no-parking fire lane within the parallel parking stalls on N. Ardmore Avenue to allow emergency services access to the building, consistent with the Site Plan;

B. Applicant shall provide the two loading/drop-off zones identified in the Site Plan: one immediately south of the fire lane on N. Ardmore Avenue for resident drop-off and pick-up, and one along the eastern edge of Beverly Avenue and the Metra lot for moving and delivery use;

C. Terrace Avenue shall be converted to two-way traffic between Ardmore Avenue and Beverly Avenue, with a right-out exit permitted onto N. Ardmore Avenue, consistent with the Site Plan; and

D. Petitioner shall replace, at the locations shown on the Site Plan, the eight ADA-accessible parking stalls displaced by the prior demolition of the site.

Section 7: The Special Use, Plat of Subdivision, and Site Plan approved herein shall be developed and implemented in substantial conformance with the following plans and documents (collectively, the "Plans and Specifications"):

A. Planned Development Application, submitted by Hawthroneworld Villa Park LP, received April 18, 2025; (Exhibit B-1)

B. Planning and Zoning Application, submitted by Hawthroneworld Villa Park LP, received April 18, 2025; (Exhibit B-2)

C. Special Use Application, submitted by Hawthroneworld Villa Park LP, received April 18, 2025; (Exhibit B-3)

D. Subdivision Application, submitted by Hawthroneworld Villa Park LP, received April 18, 2025; (Exhibit B-4)

E. Plat of Subdivision, prepared by CEMCON, Ltd., revisions dated May 20, 2025; (Exhibit B-5)

F. Plat of Survey, prepared by CEMCON, Ltd., revisions dated September 30, 2025; (Exhibit B-6)

G. Garden Station Apartments Full Set, prepared by Jones & Jones Associates, revision 8 dated December 17, 2025; (Exhibit B-7)

H. Final Site Plan, prepared by CEMCON, Ltd., revisions dated January 9, 2026; (Exhibit B-8)

I. Final Elevations, prepared by Jones & Jones Associates, revision 8 dated December 17, 2025; (Exhibit B-9)

J. Updated Renderings, submitted by Hawthorneworld Villa Park LP, June 22, 2026; (Exhibit B-10)

K. Final Engineering, prepared by CEMCON, Ltd., revisions dated September 29, 2025; (Exhibit B-11)

L. Final Landscape Plan, prepared by Gary R. Weber Associates, Inc., revision 7 dated January 12, 2026; (Exhibit B-12)

M. Garden Station Rent Schedule, submitted by Hawthroneworld Villa Park LP, received January 14, 2026; (Exhibit B-13)

N. Parking Lot Revisions, prepared by Jones & Jones Associates, revision dated December 17, 2025; (Exhibit B-14)

O. Architectural Cutsheets, submitted by Hawthroneworld Villa Park LP, received November 10, 2025; (Exhibit B-15)

P. Traffic Impact Study, prepared by Gewalt Hamilton Associates, Inc., dated May 5, 2025; (Exhibit B-16)

Q. Final Stormwater Management Report, prepared by CEMCON, Ltd., revisions dated September 19, 2025; (Exhibit B-17)

R. Autoturn and Fire Protection Exhibit, prepared by CEMCON, Ltd., dated September 23, 2025; (Exhibit B-18)

S. Natural Resources Inventory, prepared by Kane-DuPage Soil & Water Conservation District, dated May 30, 2025; (Exhibit B-19)

T. Salt Tolerance References, prepared by The Morton Arboretum, dated January 13, 2026; (Exhibit B-20)

U. Updated Renderings, submitted by Hawthorneworld Villa Park LP, July 24, 2026; (Exhibit B-21).

Section 8. The Special Use Permit and Planned Unit Development granted herein are expressly conditioned upon compliance with the following conditions, each of which shall be binding upon the Applicant and all successors and assigns:

A. The PUD shall be in substantial conformance with the Plans and Specifications.

B. The PUD and the Applicant shall comply at all times with all applicable Village Codes and regulations, except as expressly modified herein;

C. Within 90 days of approval of this Ordinance, Applicant shall file all necessary plans and applications for review and approval, obtain all required permits and approvals, and secure all necessary building permits prior to the commencement of any construction or installation on the Subject Property.

D. Applicant shall submit all required permit materials and shall comply with all applicable provisions of the Village Code, including, without limitation, all building, fire, health, engineering, zoning, and life safety requirements, as well as all applicable code requirements and standards for the existing residential dwelling units, including natural light and ventilation requirements.

E. Prior to filing any building permit application, the Applicant shall submit revised landscape plans to the Village for review and approval, reflecting changes discussed, including additional landscaping on each side of the entrance/exit, additional trees to meet Code requirements, additional ornamental trees along Terrace Street, and a statement that the plantings are salt- and drought-tolerant

F. Prior to filing any building permit application, the Applicant shall submit revised plans for review and approval including, but not limited to, a site plan, landscape plan, and engineering plans, that provide for an outdoor park space compliant with Village

requirements, or pay a fee in lieu, or obtain a waiver from park space requirements from the Corporate Authorities;

G. Prior to filing any building permit application, Applicant shall submit a revised photometric plan, including any wall-mounted fixtures proposed in lieu of wallpack fixtures, for review and approval;

H. Prior to filing any building permit application, Applicant shall submit revised plans indicating locations of additional public bicycle parking racks subject to review and approval;

I. Prior to filing any building permit application, Applicant shall submit plans that clearly delineate customer/staff interior parking stalls, including but not limited to parking stalls for the rental office staff as required by the Zoning Ordinance, and such stalls shall not be rented out.

J. Prior to filing any building permit application, Applicant shall provide the Village with final elevations and material specifications for review and approval. Final elevations and materials must be deemed consistent with the approved elevations and materials, including an increase in the use of brick and other natural materials in the proposed façade and a final proposed percentage of concrete masonry units used in the façade. If such designs are deemed to be inconsistent with the approved plans or if materials are deemed to be of a lower quality than the approved materials, then Applicant will be required to file an application for an amendment to the Special Use Permit.

K. Prior to filing any building permit application, Applicant shall provide security plan demonstrating key fob access and cameras at all entrances and law enforcement access to all video, subject to review and approval.

L. The rental/leasing office for the building shall provide parking for building staff as required by Code;

M. Applicant shall record the Plat of Subdivision with the DuPage County Recorder prior to issuance of any building permit for the project.

N. Applicant shall provide quarterly construction updates to the Village once construction has commenced;

O. Applicant shall expand the Metra parking lot on the east side of Beverly Lane, to be constructed of permeable pavers.

P. Applicant shall implement two-way traffic on Terrace Street between Ardmore Avenue and Beverly Avenue, which can be accommodated based on the existing right- of-way area, i.e. make the entrance into the Metra lot from N. Ardmore two-way.

Q. Applicant shall resurface the Metra parking lot when the project is substantially complete. This resurfacing would include replacement of stormwater inlets and the regrading of the lot to facilitate better drainage.

R. Applicant shall connect the internal storm drainage system of the project i.e. roof drains, pool deck, etc. to the existing Metra parking lot storm mains. These mains drain directly into the regional detention basin.

S. Within 30 days of approval of this ordinance, the Applicant shall provide proof of all liens affecting the Subject Property being eliminated;

T. Within 30 days of approval of this Ordinance, the Applicant shall eliminate all liens affecting the adjacent parking lot parcels on Beverly and convey those parcels via quit claim deed to the Village, as agreed in the original redevelopment agreement.

U. Within 90 days of approval of this Ordinance, the Applicant shall provide the Village with proof of secured financing for the project, in the form of fully executed financing commitments its construction lender (US Capital) and its equity investor (EcoTherm OpCo 1 LLC).

V. Within 90 days of approval of this Ordinance, the Applicant shall have obtained all permits required to complete the project.

W. Within 120 days of approval of this Ordinance, the Applicant shall close on its construction loan and equity investment and provide proof of closure to the Village, including evidence of the lender's and the investor's funds having been deposited in an escrow account for the Applicant's use.

X. Within 180 days of approval of this ordinance, the Applicant shall begin construction of the project.

Y. Any material modification to the approved Planned Unit Development that alters the essential character, intensity, layout, architectural appearance, or operation of the approved development, or that is otherwise inconsistent with the Plans and Specifications approved herein, shall require approval of an amendment to the Special Use Permit in accordance with the Village Zoning Ordinance.

Section 9. No building permit, site development permit, occupancy permit, or other authorization for construction related to the Planned Unit Development, Site Plan or Plat of Subdivision shall be issued unless the plans submitted for permit review are in substantial conformance with the Plans and Specifications and the conditions contained in this Ordinance. The Director of Community and Economic Development, Village Engineer, and other appropriate Village officials are hereby authorized to review permit applications for compliance with this Ordinance and applicable Village codes.

Section 10. The Director of Community and Economic Development may approve minor amendments to the Plans and Specifications in accordance with Section 11.4.11 of the Zoning Ordinance. Any major amendments to the Plans and Specifications shall require review

and approval by the Zoning Board of Appeals and the Village Board as a new special use application.

Section 11. Applicant hereunder shall at all times comply with the terms and conditions of the Ordinance and, in the event of non-compliance, said Ordinance shall be subject to revocation.

Section 12. All sections of the Zoning Ordinance not addressed in this Ordinance or another amending ordinance shall remain in full force and effect, which means the Special Use Permit, Site Plan, and Plat of Subdivision must comply with all other codes and ordinances of the Village, as well as all codes, ordinances, and laws of the County, State, and federal government.

Section 13. The officials, officers, employees, engineers, and attorneys of the Village are hereby authorized to take any such actions required on the part of the Village to execute and ensure the recording of the Plat of Subdivision with the County of DuPage.

Section 14. If any section, paragraph, clause or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any other provision of this Ordinance.

Section 15. All ordinances, resolutions, motions, or orders in conflict with this Ordinance are hereby repealed to the extent of such conflict.

Section 16. This Ordinance shall be in full force and effect from and after its passage, approval, and publication in pamphlet form as provided by law.

[Continued on Next Page]

ADOPTED THIS ___DAY OF _____, 2026, pursuant to a roll call vote as follows:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED this _____day of _____, 2026

_____

Kevin Patrick, President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this _____day of _____, 2026

_____

Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

Exhibit A
Legal Description

LOTS 89 THRU 97 (BOTH INCLUSIVE), IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE II, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT 172335, AND LOTS I THROUGH 6 (BOTH INCLUSIVE}, IN TOWNLEY'S VILLA PARK HIGHLANDS, BEING A SUBDIVISION IN THE SOUTHWEST 1 /4 OF SECTION 3, TOWNSHIP 39 NORTH, RANGE II, EAST OF THE THIRD PR I NCI PAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JULY 28, 1925 AS DOCUMENT 196958, AND THAT PART OF A VACATED PUBLIC ALLEY, (PREVIOUSLY DEDICATED IN TOWNLEY'S VILLA PARK HIGHLANDS SUBDIVISION) LYING WESTERLY OF THE SOUTHERLY EXTENSION OF LOT 94 IN SAID GEORGE M. COLLINS VILLA PARK IN DUPAGE COUNTY, ILLINOIS.

LOTS 7 THROUGH II (BOTH INCLUSIVE), IN TOWNLEY'S VILLA PARK HIGHLANDS, BEING A SUBDIVISION IN THE SOUTHWEST 1/4 OF SECTION 3, TOWNSHIP 39 NORTH, RANGE II, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JULY 28, 1925 AS DOCUMENT 196958 AND THAT PART OF A PUBLIC ALLEY DEDICATED IN SAID SUBDIVISION LYING NORTHERLY OF THE SAID LOTS AND EASTERLY OF THE SOUTHERLY EXTENSION OF LOT 94 IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST QUARTER OF SECTION

3 TOWNSHIP 39 NORTH, RANGE II, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT 172335, IN DUPAGE COUNTY ILLINOIS.

LOT 157 IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335 IN DUPAGE COUNTY, ILLINOIS.

LOT 158 IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION OF PART OF THE SOUTH HALF OF LOT 1 OF THE NORTHWEST QUARTER OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT 172335, DUPAGE COUNTY, ILLINOIS.

Commonly known as: 351-415 N. Ardmore Avenue and 400-416 N. Beverly Avenue, Villa Park, Illinois, Villa Park, Illinois 60181

PINs:

06-03-122-001	06-03-122-008	06-03-122-009	06-03-122-010
06-03-122-012	06-03-122-013	06-03-122-014	06-03-122-015
06-03-122-016	06-03-300-006		

Exhibit B
Plans and Specifications

On file in the Community and Economic Development Department.

Village of Villa Park

20 South Ardmore Avenue, Villa Park, Illinois 60181

To: Village of Villa Park Board of Trustees

From: Marianne Gonzales, Plan Commission Chairperson

Re: Plan Commission Item 9c. Recommendation of approval of the Hawthorneworld Proposed Site Plan for 351-451 N. Ardmore Avenue & 400-416 N. Beverly Avenue

Recommendation: To approve the proposed site plan proposed by Hawthorne World for 351-451 N. Ardmore Avenue & 400-416 N. Beverly Avenue

Meeting Date: December 17th, 2025

Background and Supporting Documentation:

This planned development was submitted to the Village through the Community Development Department. The Plan Commission has reviewed the following considerations for the proposed site plan:

1. Staff is requiring a no-parking fire lane be established in the parallel parking stalls on Ardmore to allow for emergency services to access the building.

2. The Zoning Board of Appeals had concerns about the lack of drop-off, pickup, delivery and loading zones for residents of the proposed development. The petitioner is now requesting the creation of two loading zones. One location is just south of Fire Lane on Ardmore Ave. in the parallel parking stalls to allow for drop-off and pickup and another in the proposed parallel parking stalls on the eastern edge of Beverly and the Metra Lot to allow for unloading and loading for moving in and out.

3. Due to concerns about traffic flow for any development at this location, it was recommended by staff and previous planning and zoning to make Terrace Ave into a two-way street with an exit as right out (heading north) on Ardmore Ave. This will allow traffic to access Ardmore directly from the southern parking lot entrance without pushing all traffic onto Beverly and Vermont.

4. The proposed moving of parking stalls that are currently a part of the short-term waiting parking stalls to be along the sidewalk edge of Terrace Ave, along with the placement of the handicap stalls that were removed as part of the previous demolition of the site. The eight ADA stalls were to replace the eight stalls that were lost.

Benefits to the Village:
The Benefits to the Village would allow for these changes be required for the site to be developed.

Comprehensive Plan Goal:
This recommendation will assist with Comprehensive Plan Goal of Land Use and Development. They will help facilitate proper land use for the area as determined by the comprehensive plan priority 03-01 Support mixed-use developments in key areas such as the Uptown District.

Anticipated Impact:
This site plan will then be required to be followed for final planning for the proposed project.

Signed: _____ Date: 1-21-2026

Staff Liaison: Michael Guerra, P.E., Assistant Village Manager

Village of Villa Park

20 South Ardmore Avenue, Villa Park, Illinois 60181

To: Village of Villa Park Board of Trustees

From: Marianne Gonzales, Plan Commission Chairperson

Re: Plan Commission Item 9b. Recommendation of approval of the subdivision plat for the Hawthorneworld 351-451 N. Ardmore Avenue and 400-416 N. Beverly Avenue

Recommendation: To approve the plat of consolidation submitted by Hawthorneworld to combine the lots for 351-451 N. Ardmore Ave and lots 400-416 N. Beverly Avenue into a single lot.

Meeting Date: December 14th, 2025

Background and Supporting Documentation:

The Petitioner is requesting a Plat of Subdivision with Vacation of public right-of-way for the following.

Site Information

Present Zoning:	Mixed-Use TOD District – MX-1
Present Land Use:	Vacant
Property Size:	126,760 sq. ft. / 2.91 acres
PIN:	06-03-122-001, 06-03-122-009, 06-03-122-010, 06-03-122-012, 06-03-122-013, 06-03-122-014, 06-03-122-015, 06-03-122-016, 06-03-122-017, 06-03-123-006, 06-03-123-007, 06-03-300-006

Benefits to the Village:
The Benefits to the Village would allow for the site to be developed with a single lot as buildings should not cross over property lines. This should have been performed previously with the approval of site plan.

Comprehensive Plan Goal:
This recommendation will assist with Comprehensive Plan Goal of Land Use and Development. They will help facilitate proper land use for the area with consolidation of the parcels and to promote Comprehensive Plan priority 03-01 support mixed use development in key areas such as Uptown District.

Anticipated Impact:
The combination of 12 parcels into a signal parcel with the vacation of Right of way alleys that would no longer be needed.

Signed: _____ Date: _____

Staff Liaison: Michael Guerra, P.E., Assistant Village Manager

Village of Villa Park
Community & Economic Development
11 W Home Avenue, Villa Park, IL 60181

TO: Village Board

FROM: Rodney Pate, Zoning Board of Appeals Chairperson
Brandon Nolin, AICP, Director of Community and Economic Development
Rachel Leedom, Planner

DATE: July 24, 2026

RE: ZBA-25-10 | 351-415 N. Ardmore Ave. and 400-416 N. Beverly Ave. | Approval of a Special Use for a Planned Unit Development

Statement of the Recommendation

The Zoning Board of Appeals (ZBA) recommends approval of ZBA-25-10, a Special Use permit for a Planned Unit Development to construct a seven-story, 348-unit mixed-use building with ground floor commercial space and residential apartment units on the upper floors at the properties commonly known as 351-415 N. Ardmore Ave. and 400-416 N. Beverly Ave. with waivers to:

1. Sec. 4.7.2.A. (window panels);
2. Sec. 4.4.2.A.2. (north/south building setbacks);
3. Sec. 4.4.2.A.3. (corner setbacks);
4. Sec. 4.4.2.A.6. (maximum impervious coverage);
5. Sec. 4.4.2.A.9. (garage entrance locations);
6. Sec. 4.4.2.D.17. (facade transparency);
7. Sec. 4.4.2.D.20. (pedestrian entrances);
8. Sec. 4.4.2.D.21. (entrance recesses);
9. Sec. 4.7.1.A. (primary façade materials);
10. Sec. 4.7.7 (principal entryway);
11. Sec. 9.4.4 (maximum illumination of up to 5-foot candles abutting the public Right-of way);
12. Sec. 7.9.6 (driveway width);
13. Sec. 9.1.5.C.2.a. (shade trees); and
14. Sec. 7.2. (minimum parking ratios).

ZBA-25-10 is recommended for approval subject to the following conditions:

1. The proposed site developments shall be in accordance with the application materials submitted by the petitioner in the Variation Application discussed at the public hearing on 1/14/2026 (See Exhibit B).

2. Prior to filing any Building Permit Application, the petitioner shall submit revised landscape plans to the Village to reflect changes discussed, including additional landscaping on each side of the entrance/exit, additional trees to meet Code requirements, additional ornamental trees along Terrace Street, and a statement that the plantings are salt- and drought-tolerant;
3. Prior to filing any Building Permit Application, the petitioner shall submit revised plans subject to review and approval by the Director of Community and Economic Development and Chairperson of the Zoning Board of Appeals including, but not limited to a site plan, landscape plan, and engineering plans, that provide for an outdoor park space compliant with Village requirements, or pay a fee in lieu, or obtain a waiver from park space requirements from the Village Board;
4. Prior to filing any Building Permit Application, the petitioner shall provide a revised photometric plan including the proposed lighting plan subject to review and approval by the Director of Community and Economic Development and Chairperson of the Zoning Board of Appeals.
5. Prior to filing any Building Permit Application, the petitioner shall submit revised plans indicating the locations of additional public bicycle parking racks subject to review and approval by the Director of Community and Economic Development and Chairperson of the Zoning Board of Appeals.
6. Prior to filing any Building Permit Application, the petitioner shall submit plans that clearly delineate customer/staff interior parking stalls, including but not limited to parking stalls for the rental office staff as required by the Zoning Ordinance, and such stalls shall not be rented out.
7. Prior to filing any Building Permit Application, the petitioner shall provide the Village with final elevations and material specifications for review and approval. Final elevations and materials must be deemed consistent with the approved elevations and materials, including an increase in the use of brick and other natural materials in the proposed façade and a final proposed percentage of concrete masonry units used in the façade, as determined by the Director of Community and Economic Development and Chairperson of the Zoning Board of Appeals. If such designs are deemed to be inconsistent with the approved plans or if materials are deemed to be of a lower quality than the approved materials, then the petitioner will be required to file an application for an amendment to the Special Use Permit.
8. Prior to filing any Building Permit Application, the petitioner shall provide security plan demonstrating key fob access and cameras at all entrances and law enforcement access to all video subject to review and approval by the Director of Community and Economic Development and Chief of Police.
9. Prior to consideration of the petition by the Village Board of Trustees, the petitioner shall submit renderings of all elevations for review and consideration.

Meeting Dates and Commission Deliberation

The case was considered by Zoning Board of Appeals at the regularly scheduled meeting on Wednesday December 10, 2025 and again at the regularly scheduled meeting on Wednesday January 14, 2026 where it was recommended by a vote of 5-1 that the Village Board of Trustees should approve the application with conditions as outlined in this report.

When the case was originally presented on Wednesday December 10, 2025 the development team presented an overview of the project and answered questions from the ZBA and the public. The ZBA determined more information was needed about the lobby adjacent to the Metra station, the trash enclosures, architectural materials, landscaping, signage, parking and loading areas, and site illumination and security. The petition was continued to the following meeting scheduled for January 14, 2026.

The case was further discussed on January 14, 2026 to address the comments and questions from the ZBA given at the December 10, 2025 meeting. The development team presented updates to the site plan in accordance with the Commissioners' requests. After reviewing the information, nine conditions were created for the motion for approval. The case is recommended for approval with a vote of 5-1.

Background and Supporting Information

The petitioner is requesting a planned unit development (PUD) for a 7-story, 348-unit mixed-use building with ground-floor commercial space and residential apartment units on the upper floors. As part of the PUD approval the applicant is requesting deviations from the Code. The development would include amenities for residents such as a swimming pool, pet relief area, gym, and WeWork space. Amenities for the community include a proposed restaurant space, commercial tenant, and electric vehicle chargers.

The main building entrance will be located on Ardmore Ave. with a secondary entrance on Terrace St. adjacent to the METRA station. Parking garage access is provided on Terrace St. and Beverly Ave. Two trash enclosures are provided. One trash enclosure is planned for the restaurant space, located on Terrace St. The second trash enclosure is for the apartment residents and is accessible for truck pickup on Vermont St. Fire lanes are provided on Ardmore Ave. Loading zones for ride-share drop off and personal deliveries (Amazon packages, food orders) are provided on Ardmore Ave. near the main entrance as well as on Beverly Ave. Landscaping will be provided around the site permitter.

The building façade will be constructed with a combination of beige and brown concrete masonry units, red/brown brick, and gray Hardie panel siding. The unit breakdown includes 10 studio units, 273 one-bedroom units, and 65 two-bedroom units. Seven units are proposed to be ADA accessible. Average rent prices are proposed at $3.20 per square foot.

One of the key features of this development is that the building is proposed to be "Net Zero" meaning that the building would minimize energy consumption and bring an eco-friendly design to Villa Park.

Requested Deviations

Per the applicant the following deviations are being requested from the Code:

1. Sec. 4.7.2.A. – All upper story windows on all historic, residential, and mixed-use buildings shall be recessed, double hung. Percent of transparency is required per building type. Horizontal or vertical strip windows tinted or reflective glass, and glass block (refer to Figure 4-28) are prohibited within MX districts.
    a. Requested = casement panel on all residential unit.
    b. Requested = possible glazing on windows (not specified in the drawings)
2. Sec. 4.4.2.A.2. – Front Build-to Zone – 0' to 5'
    a. Requested = Up to 14.2' setback on the south façade
    b. Requested = Up to 7.63' setback on the north façade
3. Sec. 4.4.2.A.3. – Corner Build-to Zone – 0' to 5'
    a. Requested = Up to 7.63' setback on the northeast corner
    b. Requested = Up to 35.07' setback on the northwest corner
    c. Requested = Up to 14.19' setback on the southwest corner
    d. Requested = Up to 11.29' setback on the southeast corner
4. Sec. 4.4.2.A.6. – Maximum Impervious Cover
    a. Required = 75%
    b. Requested = 93.16% (18.16% deviation)
5. Sec. 4.4.2.A.9. – Permitted Garage Entrance Location – Rear façade; side façade garage access requires an administrative adjustment.
    a. Requested = One (1) entrance on each north (to the trash room) and south (to the garage) façade which are considered front façades
6. Sec. 4.4.2.D.17. – Primary Frontage Minimum Ground Story Transparency – 75%.
    a. Requested north façade = 13.34% transparency
    b. Requested south façade = 19.90% transparency
7. Sec. 4.4.2.D.20. – Entrance Location and Number – Principal entrance required on primary frontage façade; entrances required a minimum of one per every 60' of building façade.
    a. Requested = Principal entrance on a side façade.
    b. Requested = Up to 191.16' between pedestrian entrances on the north façade.
    c. Requested = Up to 106' between pedestrian entrances on the south façade.
8. Sec. 4.4.2.D.21. – Entryway Configuration and Elevation – Recessed between 3' and 8', maximum 8' wide; entrances shall be 1.5' vertically of adjacent walk elevation.
    a. Requested = Entrances not recessed into the building.

9. Sec. 4.7.1.A. Primary Façade Materials – Eighty (80) percent of each façade shall be constructed of primary materials. For facades over one hundred (100) square feet, more than one (1) material shall be used to meet the eighty (80) percent requirement. Permitted primary building materials include high quality, durable, natural materials, such as stone, brick; wood lap siding; fiber cement board lapped, shingled, or panel siding; glass. Other high quality synthetic materials may be approved during the site plan process with an approved sample and examples of successful, high quality local installations.
    a. Requested = Concrete masonry unit (CMU) proposed which is not listed as a primary building material.

10. Sec. 4.7.7 Principal Entryway – Principal entrances to buildings or units shall be clearly delineated through one (1) or more of the following refer to Figure 4-34):
    A. Cap or Canopy. The entryway shall be covered by a cap or canopy differentiating it from the overall building cap.
    B. Sidelights and Transom. Sidelights and/or transom windows shall be included around the entryway.
    C. Extended Articulation. The entryway shall be included in a separate bay of the building extended up at least two (2) stories.
    D. Other Design Options. The Community Development Director may approve different design options that add emphasis and draw attention to the entryway through a minor exception during design review.
        a. Requested = Entrance without a cap or canopy and only extending up two (2) stories, not exceeding two (2) stories.

11. Sec. 9.4.4 Glare – Table 9-2 Maximum Illumination

Use/Location/Adjacency	**Maximum Footcandles at Property Line**
Residential to Residential	0.2
Nonresidential to Residential	0.2
Nonresidential to Nonresidential	0.5
Abutting ROW	0.5
M District	0.5

    a. Requested = 0.9 fc abutting ROW

12. Sec. 9.4.3 General Regulations – Wallpack type fixtures are prohibited.
    a. Requested = wall pack fixture for Lithonia DSXW1P1 fixture

13. Sec. 7.9.6 Access – Driveways across public property and curb cuts may not exceed twenty-four (24) feet in width, as measured at the lot line.
    a. Requested = Driveway width of 26’ on Beverly Ave. garage exit
    b. Requested = Driveway width of 26’ on Terrace St. garage exit

14. Sec. 9.1.5.C.2.a. Landscape and Screening Requirements – Shade trees must be provided at the rate of at least one tree per fifty (50) feet of frontage along the abutting property line.
    a. North property line
        i. Required = 6 trees
        ii. Requested = 4 trees (deviation of 2 trees)
    b. South
        i. Required = 6 trees
        ii. Requested = 0 trees provided on south property line along Terrace Street (deviation of 6 trees)

15. Sec. 7.2. Minimum Parking Ratios
    a. Required = 468 (see chart below)
    b. Requested = -31 spaces

Parking Requirements	**Formula**	**Quantity**	**Total Required**	**Total Proposed**
Residential units	1 parking space per dwelling unit or 1 per bedroom whichever is greater	413 bedrooms	413 spaces	437 (shared)
Residential lobby/office/ Exercise room	3 parking spaces per 1,000 sq. ft.	8,275 sq. ft.	25 spaces	437 (shared)
Retail/commercial**	4 parking spaces per 1,000 sq. ft.	7,560 sq. ft.	30 spaces	437 (shared)
		Totals	**468**	**437 (-31)**

*Additional bike parking stalls are not included in the parking stall totals.

**The restaurant use may require additional parking.

Benefits to the Village

The recommendation supports revitalization of neighborhoods and assists in implementing a Comprehensive Plan Action. The development aims to be environmentally conscious, benefiting the community.

Alignment with the Comprehensive Plan

This recommendation supports the land use and development goal of the Comprehensive Plan to expand housing options. The recommendation assists in implementing Action 03-01 "Support mixed-use developments in key areas such as the Uptown District and the Historic Ardmore District."

Anticipated Impact

The community will benefit from a rejuvenation of the property, increased housing opportunities and new commercial development, improving the overall appeal of the commercial area and increasing the tax base.

Zoning Board of Appeals Public Hearing

Legal Notice was published in the Daily Herald on November, 2025, a sign placed on the subject property, and notifications sent to property owners within a 250.0-foot-radius of the subject property in advance of the Public Hearing for ZBA-25-10. The Public Hearing began on December 10, 2025 and was continued to January 14, 2026.

Zoning Board of Appeals – Wednesday, January 14, 2026, Proceedings

Six members of the Zoning Board of Appeals were in attendance at the public hearing for Case ZBA-25-10 held on January 14, 2026.

*Michelle House, Director of Community and Economic Development, provided a brief introduction to the application. The staff report dated December 10, 2025 and revised January 14, 2026, and attached hereto as "**Attachment A**," was entered into the public record.*

In the case of ZBA-25-10, Nick Stanford, Land Use and Zoning attorney at Schain Banks, presented.

Chris Lindley informed that an updated site plans was submitted and the changes were:

Drop off – Ubers and short term -The Planning Commission has recommended approval of loading zones at two of the parking spaces on the east side of Ardmore, as well as two of the parking spaces on the east side of Beverly. The Ardmore loading zone would likely be utilized for rideshare drop-offs/pick-ups, as well as for the delivery of packages by Amazon, etc.

The Beverly loading zone would be utilized for move-ins and move-outs by reserving such spaces through building staff. The Beverly loading zone could be utilized for rideshare drop-offs/pick-ups, as well as the delivery of packages, when the loading zone is not utilized for move-in and move-out purposes.

Garbage enclosure - The applicant proposes adding a trash enclosure on the south side of the building as shown in the revised concept to accommodate trash from the restaurant space. Another option is shown that provides access to the garage and a path of travel from the restaurant to the existing interior trash room. They have reviewed plans for other developments and found similar paths of travel for trash

disposal for residents, so another interior trash shoot and trash room is not necessary.

Floor plan changes presented by Jyke Jones -Changes on the first floor - they worked to get an entrance from the train station, (East Side of the Building) added an elevator so they can go directly up from the entrance, trash enclosure on the east side of the building. They proposed one bike rack outside at the northwest corner of the building and another outdoor bike rack near the southwest corner of the building. Each rack can hold approximately 6 bikes. Residential units will be provided with a storage area in the parking garage. These storage units, located along the exterior walls (107), have sufficient capacity where they can store a bicycle. If the Village counts those storage units as long term bike parking, then the total parking count would be reduced by 26 spaces. They are also proposing a bike storage/repair room, which would expect to hold up to 24 bikes with a double deck storage rack. 33 bike parking spaces have also been added at various locations within the parking garage. In total, 57 bike spaces have been added. Those long-term bike parking spaces would reduce car parking spaces by 14 spaces. Given the feedback from the Fire Department, they have relocated the EV chargers to the northeast corner – near the garage exit onto Beverly. Garbage chutes would come down to the garbage enclosure.

Second floor changes - Sheets A2.1 AND A2.2 that were previously provided contain an exterior finish legend. The colors used for the basis of design are from Sherwin-Willimas historic color palette. They have provided the following decorative elements at the entrance/exit on the south side of the development along Terrace Avenue shown below: extended the footprint of the building to increase the size of the lobby and added a 2-story brick and glass façade with signage to increase the visibility. They will also add additional landscaping on each side of the entrance/exit, which will consist of one or two ornamental trees to frame the entrance/exit. As for the interior of the entrance/exit space, they have increased the floor area and incorporated seating and other furniture to enhance the entrance/exit. They believe that these additions will increase the aesthetics of this area both inside and outside.

Commissioner Flaskamp asked for more bricks to be carried on to the other sides of the building.

Jyke Jones replied they tried not to accent everything. Starting, when you accent everything, you really accent nothing. We are proposing to accent the Ardmore side as the main entrance rather than on the other side of the building. Vertical elements have been added at the Metra Lobby and the garage entrance on Beverly, they have provided the following decorative elements at the entrance/exit on the south side of the development along Terrace Avenue,extended the footprint of the building to increase the size of the lobby and added a 2-story brick and glass façade with signage to increase the visibility. They will also add additional landscaping on each side of the entrance/exit, which will consist of one or two ornamental trees to frame the entrance/exit. As for the interior of the entrance/exit space, they have increased the floor area and incorporated

seating and other furniture to enhance the entrance/exit. They believe that these additions will increase the aesthetics of this area both inside and outside.

Commissioner Gonzales is also concerned about not having enough interest on the other three sides of the building.

Commissioner Flaskamp was concerned about the building looking like a brick box and having no depth to the building.

Nick Standiford responded that they are looking for a recommendation tonight for the board and they will work with the recommendation to make changes. They can add more brick elements if wanted. They should try to match what was more recently approved of with the new design and see what that gets.

Doug Shannon Landscape architect - Given the feedback from the ZBA, the landscape plan can be updated to show six trees on the north side if adequate planting space is available. Five trees would be code. We will update our landscape plan to show two ornamental trees on the south side of the development if adequate planting space is available. Planting beds along the other sides of the building are less than five feet and thus ornamental trees cannot be planted on those sides. He explained where he would put trees and reasons that trees would not be able to be planted. The landscape plan covers the ground level. The pool area can have opportunities to have planters in the pool area if they are wanted. Around the perimeter they have shrubs and perennials to provide year-round interest.

Commissioner Jarrett asked if they could include landscaping around the garbage enclosure.

Doug Shann replied that currently he has dogwoods, however if the board would like to see evergreens, they can do that. Doug confirmed that the species utilized would be resistant to salt and drought and submitted a report on the species being used.

Commissioner Ackermann asked what species would be used.

Doug Shann responded, a mix of species, Maples, Honey Locust, Ginko trees and Triumph Elm.

Jyke Jones informed about the lighting - Given the negative feedback from the ZBA regarding wall packs, we are instead proposing to use decorative fixtures as shown below. Lighting fixture "C" can be changed to "Luminis EG153 L2L20 SYM 30K MVOLT ." Staff need to give guidance to the light plan.

Some of the feedback from the ZBA indicated that the proposed tenant signage may be difficult to see when driving down Ardmore.

Jyke Jones said signage from a 18" band to a 2' x 12' sign area above the tenant space mounted on the building Larger signage was added for versatility. The logos and fonts of the tenant signage can vary greatly depending on the future tenant. All signage will meet current Zoning Ordinance.

Ryan Morton Village Lawyer wanted to clarify on the photometric the village just needs to know what the level is that the developer would propose for that site. There seems to be agreement on staff that what's called for in the code is too low so staff supporting a deviation wouldn't be a problem. Staff is waiting on the proposal.

Jyke Jones said that the guidance should be maximum five-foot Candles

Ryan Morton said that would be the deviation that you would be approving as part of the PUD to allow up to five-foot Candles along the public portions of the property.

Nick Standiford closed saying that the staff report had some proposed conditions at the end of the report. They had a chance to review those and think that they are fine if the ZBA recommends approval with those conditions we would agree to them. He asks that they get recommended for approval.

Questions from the Commission

Commissioner Flaskamp asked what does the petitioner believes that the rent would be for these particular units?

Dr. Visvabharathy replied $3.15 per sq ft for one bedroom and $3.20 per sq ft for two bedrooms. They are following a market study. He passed out a fee schedule. It is not final just a reference.

Commissioner Flaskamp wanted to know if a sun study has been done.

Nick Standiford said they have not done a study, but this is adjacent to the Metra, and the Villages goal is to develop multifamily adjacent to transportation. This is a development that is tailor made for this location. There is a parking lot to the east and the buildings to the west are commercial. To the south is the Metra. The only thing is to the north the single-family homes can experience some loss of daylight potentially.

Commissioner Flaskamp asked if looking at the current amenity's situation on the north side of the building, could there be potential that that could become commercial spaces. You are not going to have entrances into that area.

Nick Standiford there is no exit into the We Workspace, this is for the people who live there. Anything is a possibility, but we will have to go back to the village for approval.

Commissioner Flaskamp asked if they could open the We Works portion of the building to the public.

Dr. Visvabharathy responded that they would have to ask the SSA they could request that after they open the building.

Commissioner Gonzales asked about the placement of the security cameras

Nick Standiford said they will get a positioning plan prior to the board meeting.

Commissioner Flaskamp asked about guest parking.

Jyke Jones explained that not every spot would be filled, some units would not be using spots.

The board discussed and took a voice vote on each deviation section and came up with conditions.

A motion was made by Commissioner Jarrett to approve the findings of facts and to recommend approval of ZBA-25-10 for a Special Use for a Planned Unit Development on the properties 351-415 N. Ardmore Avenue and 400-416 N. Beverly Avenue, as updated by Petitioner, with the following requested deviations:

1. *Sec. 4.7.2.A. (window panels);*
2. *Sec. 4.4.2.A.2. (north/south building setbacks);*
3. *Sec. 4.4.2.A.3. (corner setbacks);*
4. *Sec. 4.4.2.A.6. (maximum impervious coverage);*
5. *Sec. 4.4.2.A.9. (garage entrance locations);*
6. *Sec. 4.4.2.D.17. (facade transparency);*
7. *Sec. 4.4.2.D.20. (pedestrian entrances);*
8. *Sec. 4.4.2.D.21. (entrance recesses);*
9. *Sec. 4.7.1.A. (primary façade materials);*
10. *Sec. 4.7.7 (principal entryway);*
11. *Sec. 9.4.4 (maximum illumination of up to 5-foot candles abutting the public Right-of way)*
12. *Sec. 7.9.6 (driveway width);*
13. *Sec. 9.1.5.C.2.a. (shade trees); and*
14. *Sec. 7.2. (minimum parking rations).*

The motion also included the following conditions:

A. *Petitioner shall submit revised landscape plans to the Village to reflect changes discussed, including additional landscaping on each side of the entrance/exit, additional trees to meet Code requirements, additional ornamental trees along Terrace Street, and a statement that the plantings are salt- and drought-tolerant;*

B. *Petitioner shall provide outdoor park space, pay a fee in lieu, or obtain a waiver of this requirement from the Village Board;*

C. *Petitioner shall provide a revised photometric plan including the proposed lighting plan*

D. *Additional public bicycle parking racks shall be installed around the building;*

E. *Customer/staff interior parking stalls shall be clearly delineated and shall not be rented out;*

F. The rental office for the building shall include parking for the staff of the building, as required by Code; and

G. Increase use of brick and other natural materials as approved by staff and provide final percentage of CMU to the Village Board.

H. Provide security plan demonstrating key fob access and cameras at all entrances and law enforcement access to all video that will be reviewed by staff.

I. Renderings of all elevations to be provided to the Village Board.

Clampit Seconded the motion

AYES: Ackermann, Clampit, Gonzales, Jarrett, Chairperson Pate (5)

NAYS: Flaskamp (1)

NAYS: None (0)

ABSTAIN: None (0)

Motion Carried

Motion to close the public hearing was made by Commissioner Jarrett

Seconded by Commissioner Gonzales

Final Plans and Supporting Documents

The application's final plans and supporting documents recommended for approval by the Zoning Board of Appeals include the following and are attached hereto as "**Attachment B**":

1. Planned Development Application, submitted by Hawthroneworld Villa Park LP, received April 18, 2025
2. Planning and Zoning Application, submitted by Hawthroneworld Villa Park LP, received April 18, 2025
3. Special Use Application, submitted by Hawthroneworld Villa Park LP, received April 18, 2025
4. Subdivision Application, submitted by Hawthroneworld Villa Park LP, received April 18, 2025
5. Plat of Subdivision, prepared by CEMCON, Ltd., revisions dated May 20, 2025
6. Plat of Survey, prepared by CEMCON, Ltd., revisions dated September 30, 2025
7. Garden Station Apartments Full Set, prepared by Jones & Jones Associates, revision 8 dated December 17, 2025
8. Final Site Plan, prepared by CEMCON, Ltd., revisions dated January 9, 2026
9. Final Elevations, prepared by Jones & Jones Associates, revision 8 dated December 17, 2025
10. Updated Renderings, submitted by Hawthorneworld Villa Park LP, June 22, 2026
11. Final Engineering, prepared by CEMCON, Ltd., revisions dated September 29, 2025

12. Final Landscape Plan, prepared by Gary R. Weber Associates, Inc., revision 7 dated January 12, 2026
13. Garden Station Rent Schedule, submitted by Hawthroneworld Villa Park LP, received January 14, 2026
14. Parking Lot Revisions, prepared by Jones & Jones Associates, revision 8 dated December 17, 2025
15. Architectural Cutsheets, submitted by Hawthroneworld Villa Park LP, received November 10, 2025
16. Traffic Impact Study, prepared by Gewalt Hamilton Associates, Inc., dated May 5, 2025
17. Final Stormwater Management Report, prepared by CEMCON, Ltd., revisions dated September 19, 2025
18. Autoturn and Fire Protection Exhibit, prepared by CEMCON, Ltd., dated September 23, 2025
19. Natural Resources Inventory, prepared by Kane-DuPage Soil & Water Conservation District, dated May 30, 2025
20. Salt Tolerance References, prepared by The Morton Arboretum, dated January 13, 2026

Exhibits

- **Exhibit A** – Staff Report to the Zoning Board of Appeals for ZBA-25-10, prepared by Department of Community and Economic Development, revised January 14, 2026
- **Exhibit B** – Final Plans and Supporting Documents for ZBA-25-10

Exhibit A

Staff Report to the Zoning Board of Appeals for ZBA-25-10
Prepared by Department of Community and Economic Development
Revised January 14, 2026

Exhibit B

Final Plans and Supporting Documents for ZBA-25-10
Available to view and download here:
ZBA-25-10 - July 2026 Board Packet

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TO: Zoning Board of Appeals
FROM: Community & Economic Development Department
DATE: December 10, 2025
RE: **Petition ZBA-25-10 | 351-451 N. Ardmore Avenue & 400-416 N. Beverly Avenue | Planned Unit Development**

PETITIONER	OWNER
Hawthorneworld Villa Park LP 100 Tower Drive, Suite 238 Burr Ridge, IL 60527	Hawthorneworld Villa Park LP 100 Tower Drive, Suite 238 Burr Ridge, IL 60527

New content denoted by "1/14/26"

Request Summary
The Petitioner is requesting a planned unit development (PUD) for a 7-story, 348-unit mixed-use building with ground-floor commercial space and residential apartment units on the upper floors. As part of the PUD approval the applicant is requesting deviations from the Code.

Background
The Petitioner is requesting approval of a mixed-use 7-story building with commercial/retail/restaurant space and rental apartments on the subject property bordered by Ardmore Avenue on the west, Vermont Street on the north, Beverly Avenue on the east, and Terrace Street on the south. The Petitioner previously acquired all parcels within the block and demolished the commercial buildings. The site currently is grass and gravel from the demolition onsite. The building would feature an enclosed parking garage with 424 parking stalls with an additional 13 on-street parking stalls.

The Petitioner previously received approval of a planned unit development and redevelopment agreement (RDA) from the Village in August 2021. Under the terms of that RDA, the Petitioner was to commence construction by March 31, 2022. However, in September 2021, the Petitioner's primary lender backed out at the last minute, leaving the Petitioner unable to fund its project. The RDA was extended several times to give the Petitioner time to find alternate funding, but by March 2024, the Petitioner still had not met the requirements of the RDA and it expired. As such, this application is being treated as a new application with no prior approvals. The Petitioner has indicated a new RDA will be necessary to complete this project, but any new requests for Village assistance will be considered by the Village Board of Trustees, not the Zoning Board of Appeals.

1/14/26
The Zoning Board of Appeals heard the application at the December 10, 2025 Commission meeting. The Commission requested the Petitioner address the following items:

1. Add additional architectural interest to the southern pedestrian building entrance.
2. Provide key fob access and cameras at every point of entry into the building.
3. Investigate an additional trash room located closer to the proposed retail and restaurant space.
4. Provide additional color scheme options.
5. Provide additional examples of CMU utilized in other building examples.
6. Confirm that the proposed landscaping is drought and salt tolerant.
7. Provide shade or ornamental trees along Vermont Street.

8. Create signage standards for the building for use by the retail and restaurant tenant spaces.
9. Provide a move-in and drop-off area.
10. Relocate the EV chargers closer to the exit within the parking garage.
11. Provide a bicycle room layout plan.
12. Provide a bicycle rack near the retail and restaurant tenant spaces.
13. Provide the hours of operation of the retail and restaurant tenant spaces.
14. Investigate other lighting options other than wallpack fixtures.
15. Increase lighting levels at the pedestrian and vehicular entrances into the building.

Site Information

Present Zoning:	Mixed-Use TOD District – MX-1
Present Land Use:	Vacant
Property Size:	126,760 sq. ft. / 2.91 acres
PIN:	06-03-122-001, 06-03-122-009, 06-03-122-010, 06-03-122-012, 06-03-122-013, 06-03-122-014, 06-03-122-015, 06-03-122-016, 06-03-122-017, 06-03-123-006, 06-03-123-007, 06-03-300-006

Surrounding Zoning		**Surrounding Land Use**
North:	Mixed Residential District – MX-R2	Residential
West:	Mixed-Use TOD District – MX-1	Mixed-Use
East:	Residential Single-Dwelling District- RS-7.5	Residential
	Mixed-Use TOD District – MX-1	Mixed-Use
	Mixed Residential District 1 – MX-R1	Residential
South:	Mixed Residential District 1 – MX-R1	Residential

Comprehensive Plan Designation – Mixed-Use

Multi-dwelling residential development refers to properties that accommodate multiple units or households on a single lot. This can include independent buildings comprised of condominiums or apartments, structures within mixed-use developments, or specialized housing for seniors. Currently, such developments exist in various locations throughout the Village. These types of developments should be prioritized in areas close to transit options and commercial centers to facilitate easy access to amenities and transportation, enhancing residents' quality of life.

Zoning Request

The Petitioner is requesting approval of a planned unit development (PUD) designated as a "special use" administered under Section 11.3 Planned Unit Development.

Internal Staff Review

Site Plan Review

1. Building and Structure Location - The following comments relate to the issue of building and structure location in regard to the proposed development plans:

   1/14/26

   a. The Petitioner has revised the site plan to feature a slightly larger lobby entering the building off the southern side of the building facing the METRA tracks. **The ZBA should confirm whether this addresses the concerns regarding prominence of the entrance on the non-primary façade.**

   12/10/25

   a. The main entrance to the lobby is off the Ardmore right-of-way.

b. The proposed building has a door on the southeast corner into the stair corridor across from the METRA station. **The ZBA should note that no transit-oriented lobby design exists for this corner of the building.**

2. Building scale and architecture - The following comments relate to the issue of building scale in regard to the proposed development plans:

1/14/26

a. The Petitioner revised the interior building layout to allow access from the retail and restaurant spaces to access the trash room internally to the building.
b. The Petitioner has also added a trash enclosure on the south side of the building immediately exterior to the proposed restaurant space. The second floor plan is revised to reflect this addition. **The Petitioner should confirm whether both the internal changes and the exterior trash enclosure are proposed or whether they are looking for the ZBA to pick the most acceptable option. Once confirmed, the ZBA should determine whether that is acceptable.**
c. **The ZBA should confirm for the applicant whether CMU are unacceptable**. If the Commission prefers, the Petitioner has stated that they would be open to increasing the amount of brick on the building instead of utilizing CMU. A rendering showing additional brick at the northwest corner at Ardmore and Vermont has been provided for consideration.
d. The Petitioner resupplied the color palette. **The ZBA should confirm whether it is acceptable or whether the ZBA was looking for additional color palette options to consider.**
e. **The ZBA should comment on whether the revised architectural elevations are sufficient or whether additional architectural details should be added. The Petitioner has utilized brick on the northwest corner of the building and some areas on the Ardmore elevation. The remainder of the façade utilizes CMU blocks and cementitious siding.**

12/10/25

a. The building is considered a storefront building per Code when reviewing against the MX District requirements.
b. The proposed building only features one trash room on the northern side of the building. All refuse from the residential units and the retail/commercial/restaurant space will need to move the trash to this location for pickup. It does not appear that the retail/commercial/restaurant space has access to take refuse to the trash room within the building and would need to move refuse around the exterior of the building. **The ZBA should consider whether this is acceptable or whether another trash room closer to the retail/commercial space should be required.**
c. The Petitioner is proposing the use of concrete masonry units (CMUs). Referring to the sample and examples of successful installations provided by the Petitioner per Code, **the ZBA should determine whether the CMU should be approved as part of the site plan approval process.**
d. The ZBA should ask the Petitioner to confirm the proposed colors of the materials comply with the requirement of utilization of historic color palettes.
e. **The main entrance to the building should be reviewed by the ZBA to identify modifications to meet Sec. 4.7.7. Principal Entryway.** Possible modifications could include a different cap than used elsewhere on the building, vertical hierarchy at least 2 stories in height, or other proposed design modifications approved by the Director of Community Development.
f. The northern, eastern and southern elevations do not feature the same vertical elements that the western elevation features. Existing residential faces the north and east property lines of the proposed development. **The ZBA should consider whether the proposed building features enough architectural interest.**

3. Open Space – The following comments relate to the issue of open space in regard to the proposed development plans:

1/14/26

a. The Petitioner stated during the 12/10/25 presentation that drainage and water access would be included in the pet area. That would be reviewed further during building permit review.
b. The second floor of the building still features an outdoor dining area but still does not appear to be linked to the restaurant internally. **The Petitioner should confirm whether that is the case and the ZBA should confirm whether that is acceptable.**

12/10/25

a. The building would feature an outdoor space at the northwest corner of the building accessible via part of the residential amenity space.
b. The apartments would feature a 3rd floor interior courtyard amenity space including a pool, dog run, track, and outdoor seating.
c. The ZBA should ask the Petitioner to confirm that the pet area would feature drains and water access during the permit process for sufficient cleaning of the area.
d. The second floor of the building would feature an outdoor dining area linked internally to the proposed restaurant tenant space. The Petitioner has stated that the space adjacent to the outdoor dining area is for restaurant service to this dining area but is not linked to the restaurant internally.

4. Lot Coverage - The following comments relate to the issue of lot coverage in regard to the proposed development plans:
12/10/25
a. With the new garage, the lot coverage would be approximately 93.16%. Maximum lot coverage for MX-1 is 75%. A deviation is required.
5. Landscaping – The following comments relate to the issue of landscaping in regard to the proposed development plans:
1/14/26
a. The Petitioner should confirm that the proposed landscaping is drought and salt tolerant.
b. The Petitioner's revised letter denotes that the additional landscaping would be added on each side of the entrance/exit. **The Petitioner should update the landscape plans to reflect these changes.**
c. During the meeting the Petitioner stated that additional trees could be added to meet Code requirements. **The Petitioner should update the landscape plans to reflect these changes.**
    i. The north elevation of the building would require installation of six (6) shade trees along the property line. The Petitioner's plans currently include four (4) trees. A deviation is required.
    ii. The south elevation of the building would require installation of six (6) shade trees along the property line. The Petitioner's plans currently include zero (0) trees. A deviation is required.
d. The Petitioner has stated that they would revise the landscape plan to reflect ornamental trees proposed on the south side of development along Terrace Street. **The Petitioner should revise the landscape plans per these comments.**
e. The Petitioner mentioned the outdoor amenity deck in regards to the request to waive the fee in lieu of park space. Private amenities for the apartment building cannot be counted towards providing park space as it is not a publicly accessible space. The Petitioner will need to request the Board of Trustees waive the fee in lieu of park space, which would total $308, 642 for this project as proposed.

12/10/25

a. The north elevation of the building would require installation of six (6) shade trees along the property line. The Petitioner's plans currently include four (4). A deviation is required.
b. The south elevation of the building would require installation of six (6) shade trees along the property line. The Petitioner's plans currently include zero (0). A deviation is required.
c. The Gleditsia triacanthos var. inermis 'Skycole' will need to be added to the Approved Tree Species list for Villa Park. This will be completed internally.
d. The Petitioner has added foundation plantings where able surrounding the building.
e. The proposed landscape plan features shade trees, deciduous shrubs, evergreen shrubs, and perennials and ornamental grasses. **The ZBA should note that the plan does not include any ornamental trees.**
f. **The ZBA should ask the Petitioner to confirm that the proposed plantings are salt and drought tolerant** as the landscape areas are immediately adjacent to pedestrian walkways which may be salted over winter.
g. **The Petitioner's plans do not provide park space as required per Code**. The Petitioner intends to request the Board of Trustees waive the fee in lieu of park space, which would total $308,642 for this project as proposed.

6. Graphics and Signage – The following comments relate to the issue of landscaping in regard to the proposed development plans:

1/14/26

a. The Petitioner has revised the tenant signage band from 18.0 inches to 24.0 inches in height.
b. The Petitioner has revised the signage placement to be on the building versus the previously proposed signage band on the aluminum awning.
c. The ZBA should consider whether the Petitioner should be directed to specify design criteria for future tenant signage.

12/10/25

a. The Petitioner proposes a ground sign at the northwest corner of the property on a raised landscape bed.
b. The proposed signage would require a sign permit prior to installation. Final drawings of the signage exhibits can be submitted separately from the building permit for approval.
c. The proposed signage area for the retail/commercial/restaurant tenant spaces are currently proposed at the minimum of 18.0 inches. **The ZBA should review and consider whether the signage area should be increased for visibility for the future tenants due to the building scale.**
d. The tenant signage is proposed on the aluminum awnings of the building above the tenant space entrances. The future tenant signage may be limited in style due to this installation location. **The ZBA should ask the Petitioner to specify design criteria for future tenant signage** to be consistent and reduce needed perforations for tenant signage changes in the future.

7. Circulation – The following comments relate to the issue of circulation in regard to the proposed development plans:

1/14/26

a. The Plan Commission reviewed the site plan at their regularly scheduled 12/17/25 meeting. The Commission approved the site plan which included two loading zones, one on the east side of Ardmore south of the fire lane and one on the east side of Beverly Avenue at the north end of the on-street parking stalls. The Petitioner anticipates the Ardmore loading zone would mainly be utilized for delivery of packages (ie. Amazon, UPS, etc.), food delivery (ie. DoorDash, etc.), rideshare drop-offs/pick-ups, or resident drop-off/pick-ups. The Petitioner anticipates the Beverly loading zone to be utilized for move-in/move-out or additional area for utilized for delivery

of packages (ie. Amazon, UPS, etc.), food delivery (ie. DoorDash, etc.), rideshare drop-offs/pick-ups, or resident drop-off/pick-ups if the main area on Ardmore is full.

12/10/25

a. The Petitioner has stated that loading and move-in/move-out would occur though the elevator bay in the middle of the garage. Trucks would need to park on Beverly Avenue for loading/unloading. Currently, the west side of Beverly Avenue does not permit parking so that Municipal Code amendment would need to go through the Plan Commission and Village Board separately.
b. The Petitioner has provided a traffic impact study which will also be reviewed by the Village's third party consultant.
c. The Petitioner is proposing right-in/right-out at the Terrace and Ardmore intersection so that traffic would not all exit via Beverly Avenue. Terrace Street would be changed to two-way access.
d. The METRA drop-off will be modified to address the relocation of accessible parking stalls that were eliminated as part of the proposed project.

8. Parking lots – The following comments relate to the issue of parking lots in regard to the proposed development plans:

1/14/26

a. The Petitioner has relocated the EV chargers to the northeast corner of the garage to be closer to the garage exit.
b. The Petitioner has proposed two (2) bike racks onsite, one at the northwest corner and one at the southwest corner of the building. Each bike rack would hold approximately six (6) bicycles.
c. The Petitioner has stated that the storage units provided in the garage levels for individual units would be large enough to store a bicycle. The Village would not count each storage unit as a bicycle storage space.
d. The Petitioner has stated that the bike storage/repair room would hold approximately 24 bicycles with a double deck storage rack. An additional 33 bicycle storage spaces have been added around the garage levels. The 57 bicycle storage spaces would equate to 14 vehicular parking stalls per Code.
e. The Petitioner has stated they are open to the installation of additional public bicycle parking racks around the building.
f. The garage levels include 423 interior parking stalls with 413 stalls dedicated to the residential units. The Petitioner states that the remaining 10 stalls could be utilized for the staff of the development or customers/staff of the retail/commercial/restaurant tenant spaces. Other staff of the development or customers of the retail/commercial/restaurant tenant spaces would need to utilize the public on-street parking stalls or the METRA lot with a $2/day fee. **The Petitioner should specify whether the residential parking stalls are assigned so that the additional 10 stalls are clearly delineated in the garage.**
g. The Petitioner has stated that the co-work and exercise rooms in the building are accessible 24/7 to residents only. **The ZBA should clarify whether any additional conditions should be placed on the Petitioner to prevent these spaces from being rented out to outside customers in the future.**
h. The rental office for the building will include required parking for the staff of the building.

12/10/25

a. The Fire Department has requested that the EV chargers be located as close to the garage exit as possible to ease in towing a vehicle should it catch fire. **The ZBA should consider that as a**

condition. Currently, the chargers are shown in the southwest corner from the garage, the farthest from the garage exit onto Beverly Avenue.

b. The Petitioner has included a bike storage/repair room on the plans but has not shown the layout for the room. As such, bike parking is not included in the provided parking within the plan. Every four (4) long-term bicycle parking spaces can be credited as one (1) motor vehicle space per Sec. 7.4.3. **The ZBA should ask the Petitioner for the amount of bike parking spaces that will be provided.**

c. Overnight parking in the right-of-way is not permitted, thus, the parking along Ardmore Avenue cannot be considered in the required parking for the residential units.

d. The ZBA should ask the Petitioner to install additional bicycle racks near the retail/commercial/restaurant tenant spaces.

e. The ZBA should ask the Petitioner to comment on whether the interior garage spaces will be permitted to be used by the retail/commercial/restaurant tenant spaces.

f. The Petitioner previously constructed a parking lot east of Beverly Avenue that was to be conveyed to the Village as a public lot. Currently, the Village has an easement on the lot to allow for public parking. The lot is not part of the PUD.

g. **The ZBA should ask the Petitioner to provide additional information on the hours of use for the residential co-work, office, and exercise room** to confirm the shared parking allowances.

9. Site Illumination – The following comments relate to the issue of site illumination in regard to the proposed development plans:

1/14/26

a. The Petitioner should provide a revised photometric plan including the proposed lighting plan with requested deviations for consideration by the ZBA.

b. The ZBA should review the revised proposed wall-mounted decorative fixture instead of the previously proposed wall pack fixture.

12/10/25

a. The proposed photometric plan would require a deviation for lighting levels adjacent to the public right-of-way. **The ZBA should consider that as a condition.**

b. **The ZBA should ask the Petitioner to confirm illumination near the garage entrances.** It currently appears to be minimally illuminated.

c. Wall pack fixtures are not permitted. The Lithonia D-Series Size 1 fixture will need to be changed or a deviation requested. **The ZBA should include that as a condition.**

10. Completeness - If the Zoning Board of Appeals requires additional information to determine whether the applicant's development requests comply with the applicable standards of the Code, they may direct the Petitioner to furnish additional information and evidence that may provide clarity regarding their concerns.

1/14/26

a. The Petitioner has stated that they plan to utilize cameras at each entrance/exit including the garages. The residents will have key fobs for the building access. The Petitioner noted a management team will be utilized to execute the security plan.

b. The Petitioner noted that the solar panels on the roof will not provide 100% of the energy for the building. The Petitioner will provide the remainder of the building at an off-site solar field and sell the power back to the grid which they receive credit for.

c. The Petitioner has stated they will also utilize geothermal energy that will be shown on a future building permit application.

Required Parking

Parking & loading berth requirements of the Code are summarized in the following tables:

Parking Requirements	Formula	Quantity	Total Required	Total Proposed
Residential units	1 parking space per dwelling unit or 1 per bedroom whichever is greater	413 bedrooms	413 spaces	439 (shared)
Residential lobby/office/ Exercise room	3 parking spaces per 1,000 sq. ft.	828 sq. ft.	3 spaces	439 (shared)
Retail/commercial**	4 parking spaces per 1,000 sq. ft.	7,560 sq. ft.	30 spaces	439 (shared)
Totals			**446**	**437 (-9)**

*Additional bike parking stalls are not included in the parking stall totals.
**The restaurant use may require additional parking.

Shared Parking

Land Use	Time					
	Weekday			Weekend		
	Midnight-7:00am	7:00am-6:00pm	6:00pm-Midnight	Midnight-7:00am	7:00am-6:00pm	6:00pm-Midnight
Residential	413	413	413	413	413	413
Office	1	3	1	1	2	1
Retail***	2	21	27	0	30	18
Total	**416 (+21)**	**437(+0)**	**441 (-4)**	**414 (+23)**	**445 (-8)**	**432 (+5)**

***The parking demand may change with the required parking for a potential restaurant space. Above calculations are based on the entire commercial rental space as retail space.

Requested Deviations

Per the applicant the following deviations are being requested from the Code:

1. Sec. 4.7.2.A. – All upper story windows on all historic, residential, and mixed use buildings shall be recessed, double hung. Percent of transparency is required per building type. Horizontal or vertical strip windows, tinted or reflective glass, and glass block (refer to Figure 4-28) are prohibited within MX districts.
    a. Requested = casement panel on all residential unit.
    b. Requested = possible glazing on windows (not specified in the drawings)
2. Sec. 4.4.2.A.2. – Front Build-to Zone – 0' to 5'
    a. Requested = Up to 14.2' setback on the south façade
    b. Requested = Up to 7.63' setback on the north façade
3. Sec. 4.4.2.A.3. – Corner Build-to Zone – 0' to 5'
    a. Requested = Up to 7.63' setback on the northeast corner
    b. Requested = Up to 35.07' setback on the northwest corner
    c. Requested = Up to 14.19' setback on the southwest corner
    d. Requested = Up to 11.29' setback on the southeast corner
4. Sec. 4.4.2.A.6. – Maximum Impervious Cover
    a. Required = 75%

b. Requested = 93.16% (18.16% deviation)

5. Sec. 4.4.2.A.9. – Permitted Garage Entrance Location – Rear façade; side façade garage access requires an administrative adjustment.
    a. Requested = One (1) entrance on each north (to the trash room) and south (to the garage) façade which are considered front façades
6. Sec. 4.4.2.D.17. – Primary Frontage Minimum Ground Story Transparency – 75%.
    a. Requested north façade = 13.34% transparency
    b. Requested south façade = 19.90% transparency
7. Sec. 4.4.2.D.20. – Entrance Location and Number – Principal entrance required on primary frontage façade; entrances required a minimum of one per every 60' of building façade.
    a. Requested = Principal entrance on a side façade.
    b. Requested = Up to 191.16' between pedestrian entrances on the north façade.
    c. Requested = Up to 106' between pedestrian entrances on the south façade.
8. Sec. 4.4.2.D.21. – Entryway Configuration and Elevation – Recessed between 3' and 8', maximum 8' wide; entrances shall be 1.5' vertically of adjacent walk elevation.
    a. Requested = Entrances not recessed into the building.
9. Sec. 4.7.1.A. Primary Façade Materials – Eighty (80) percent of each façade shall be constructed of primary materials. For facades over one hundred (100) square feet, more than one (1) material shall be used to meet the eighty (80) percent requirement. Permitted primary building materials include high quality, durable, natural materials, such as stone, brick; wood lap siding; fiber cement board lapped, shingled, or panel siding; glass. Other high quality synthetic materials may be approved during the site plan process with an approved sample and examples of successful, high quality local installations.
    a. Requested = Concrete masonry unit (CMU) proposed which is not listed as a primary building material.
10. Sec. 4.7.7 Principal Entryway – Principal entrances to buildings or units shall be clearly delineated through one (1) or more of the following refer to Figure 4-34):
    A. Cap or Canopy. The entryway shall be covered by a cap or canopy differentiating it from the overall building cap.
    B. Sidelights and Transom. Sidelights and/or transom windows shall be included around the entryway.
    C. Extended Articulation. The entryway shall be included in a separate bay of the building extended up at least two (2) stories.
    D. Other Design Options. The Community Development Director may approve different design options that add emphasis and draw attention to the entryway through a minor exception during design review.
        a. Requested = Entrance without a cap or canopy and only extending up two (2) stories, not exceeding two (2) stories.
11. Sec. 9.4.4 Glare – Table 9-2 Maximum Illumination

Use/Location/Adjacency	Maximum Footcandles at Property Line
Residential to Residential	0.2
Nonresidential to Residential	0.2
Nonresidential to Nonresidential	0.5
Abutting ROW	0.5
M District	0.5

    a. Requested = 0.9 fc abutting ROW
12. Sec. 9.4.3 General Regulations – Wallpack type fixtures are prohibited.
    a. Requested = wall pack fixture for Lithonia DSXW1P1 fixture.

1/14/26

Petitioner has stated a different decorative fixture would be used but is not currently included in a revised photometric plan.

13. Sec. 7.9.6 Access – Driveways across public property and curb cuts may not exceed twenty-four (24) feet in width, as measured at the lot line.
    a. Requested = Driveway width of 26' on Beverly Ave. garage exit
    b. Requested = Driveway width of 26' on Terrace St. garage exit
14. Sec. 9.1.5.C.2.a. Landscape and Screening Requirements – Shade trees must be provided at the rate of at least one tree per fifty (50) feet of frontage along the abutting property line.
    a. North property line
        i. Required = 6 trees
        ii. Requested = 4 trees (deviation of 2 trees)
    b. South
        i. Required = 6 trees
        ii. Requested = 0 trees provided on south property line along Terrace Street (deviation of 6 trees)
15. Sec. 7.2. Minimum Parking Ratios
    a. Required = See chart above on page 8
    b. Requested = -8 spaces based on shared parking calculations for all commercial rental space calculated as retail space. Restaurant space may change the above calculations.

Findings

Per Section 11.4.8. – Review and Approval Criteria: No Special Use may be recommended for approval or approved unless the respective review or decision-making body determines that the proposed Special Use is consistent with and in substantial compliance with all village board policies and plans and that the applicant has presented evidence to support each of the following conclusions for both Special Uses that they are requesting:

A. That the proposed use or activity is expressly authorized as a Special Use;
Petitioner's Response: *A Planned Unit Development is expressly allowed as a Special Use pursuant to Illinois Municipal Code, 65 ILCS 5/11-13-1-1*.

B. That the proposed use at the proposed location is necessary or desirable to provide a service or a facility that is in the interest of public convenience and will contribute to the general welfare of the neighborhood or community;
Petitioner's Response: The development of a sustainable, Transit-Oriented, mixed-use development will greatly benefit the general welfare of the community by increase housing options, and reducing vehicle use.

C. That the proposed use will not, in the particular case, be detrimental to the health, safety, or general welfare of persons residing or working in the vicinity or be injurious to property values or improvements in the vicinity.
Petitioner's Response: This development will benefit the surrounding properties by activating the block.

D. That approval of the Special Use will not impede the normal and orderly development and improvement of surrounding property for uses permitted in the district;
Petitioner's Response: *This development is designed in a way to minimize impacts on surrounding property including traffic impacts*.

E. That the proposed Special Use will be served by adequate utilities, access roads, parking, drainage and other important and necessary facilities, infrastructure, and community services; and
Petitioner's Response: *This development is designed in a way to maximize the usefulness of current infrastructure*.

F. That the proposed Special Use complies with all applicable regulations of this zoning ordinance except as expressly approved in accordance with the procedures of this zoning ordinance.
Petitioner's Response: *This development is designed in a way to comply with all applicable regulations of the zoning code except as described in the attached application materials*.

Notification
Legal Notice was published in the Daily Herald on November 25, 2025, a sign placed on the subject property, and notifications sent to property owners within a 250.0 foot radius of the subject property in advance of the Public Hearing.

Sample Motion
To recommend approval of ZBA-25-10 for a Special Use for a Planned Unit Development on the properties 351-415 N. Ardmore Avenue and 400-416 N. Beverly Avenue, as updated by Petitioner, with the following requested deviations:

1. Sec. 4.7.2.A. (window panels);
2. Sec. 4.4.2.A.2. (north/south building setbacks);
3. Sec. 4.4.2.A.3. (corner setbacks);
4. Sec. 4.4.2.A.6. (maximum impervious coverage);
5. Sec. 4.4.2.A.9. (garage entrance locations);
6. Sec. 4.4.2.D.17. (facade transparency);
7. Sec. 4.4.2.D.20. (pedestrian entrances);
8. Sec. 4.4.2.D.21. (entrance recesses);
9. Sec. 4.7.1.A. (primary façade materials);
10. Sec. 4.7.7 (principal entryway);
11. Sec. 9.4.4 (maximum illumination);
12. Sec. 9.4.3 (wallpack fixtures); **[may not be needed if photometric plan changed]**
13. Sec. 7.9.6 (driveway width);
14. Sec. 9.1.5.C.2.a. (shade trees); and
15. Sec. 7.2. (minimum parking rations);

and with the following conditions:

A. *Petitioner shall submit revised landscape plans to the Village to reflect changes discussed, including additional landscaping on each side of the entrance/exit, additional trees to meet Code requirements, additional ornamental trees along Terrace Street, and a statement that the plantings are salt- and drought-tolerant;*
B. *Petitioner shall provide outdoor park space, pay a fee in lieu, or obtain a waiver of this requirement from the Village Board;*
C. Petitioner shall provide a revised photometric plan including the proposed lighting plan with requested wall-mounted deviations;
D. *Additional public bicycle parking racks shall be installed around the building;*
E. *Customer/staff interior parking stalls shall be clearly delineated and shall not be rented out;*

F. *The rental office for the building shall include parking for the staff of the building, as required by Code; and*

G. *[Any other conditions the ZBA deems necessary].*

Exhibit List

- Exhibit A – Plat of Survey
- Exhibit B – Site Plan
- Exhibit C – Proposed Architectural Plans, Elevations, Photometric Plans, Signage Exhibits
- Exhibit D – Architectural Cutsheets
- Exhibit E – Landscape Plan
- Exhibit F – Traffic Impact Study
- Exhibit G – Petitioner Response Letter dated 12/23/2025

PLANNED DEVELOPMENT APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

For Internal Use Only	Petition #:	Date Received:	Fees Paid:

SUBJECT PROPERTY INFORMATION

Property Address: Block bounded by East Vermont Street, North Beverly Avenue, West Terrace Street and North Ardmore Avenue (Development Site)

Parcel Index Number(s):
06-03-122-001; 06-03-122-012; 06-03-122-013; 06-03-122-014; 06-03-122-015; 06-03-122-009 06-03-122-016; 06-03-122-010; 06-03-122-017; 06-03-300-006

SUMMARY OF REQUEST

Check Application Type:

☐ Concept ☐ Preliminary ☒ Final

Brief Project Description:

Hawthorne Development Corporation proposes to develop a high quality, mixed-use development with ground floor commercial and residential above. Situated at a gateway location in the Village with proximity to the Villa Park Metra station and exposure to daily commuters, the proposed Garden Station development is designed to add density and create vibrancy in the Downtown with new residents, commuter and community activity. The Project is consistent with the goals and objectives of the North Ardmore/Vermont TIF District.

PROCEDURES FOR ESTABLISHMENT

Planned unit development applications shall be made as hereinafter provided and shall be accompanied by the required plats and documents. Detailed plans, drawings, and other information as specified in this section shall be required at the time of the various phases, meetings and hearings as detailed herein. Each stage shall be reviewed and certified by the community development director as being in accordance with the planned unit development requirements before proceeding to the next stages. The approval process shall include the following stages:

A. Preapplication conference: Introductory meeting held with village staff as set forth in section 11.3.5 of this section.
B. Concept PUD plan review: An optional informal review of overall concept conducted by the planning and zoning commission to provide constructive feedback to petitioner of the plan as set forth in section 11.3.6 of this section.
C. PUD development plan: First, a technical review of detailed plans by various village departments at a planning and zoning commission meeting is held; a public hearing is then conducted by the planning and zoning commission; and final determination is made by the village board, as set forth in section 11.3.7 of this section.
D. PUD site plan: A detailed plan for building and site design for all or a part of the property in compliance with the PUD development plan and approved by the community development director, as set forth in section 11.3.8 of this section.

For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

PLANNED DEVELOPMENT APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

APPLICATION CHECKLIST

An electronic submittal is required. The full application may be sent to sbarajas@invillapark.com

☐ Complete PLANNING AND ZONING APPLICATION
☐ Complete PLANNED UNIT DEVELOPMENT APPLICATION
☐ Plat of Survey, indicating existing conditions and no more than 5 years old

Three Copies of the following:
☐ Full Site Plan (showing structures, setbacks, parking, etc.)
☐ Landscape Plan
☐ Lighting and Photometric Plan with cutsheet
☐ Elevation Plan and Architectural Plan Set
☐ Plat of Subdivision with all easements, vacations, etc.
☐ Full Engineering Plan Set, including:

- Topographic survey sufficient to determine on-site and off-site drainage calculations
- Civil site plan must show location of existing and proposed sanitary sewers, services, septic systems, water mains, services and wells
- If over one acre, submit Notice of Intent form to the IL EPA
- Traffic impact study/report, if needed, as determined by Village Engineer
- For large residential developments and all commercial developments, the following is required:
    - DuPage County Stormwater Management Permit Application and fee
    - Soil Erosion and Sediment Control Details and Record Drawings Certification forms
    - Existing site runoff calculations, including upstream drainage to be by-passed through site
    - Proposed site runoff storage calculations
    - Analysis of off-site drainage
    - Costs estimates of storm water facilities, swales, and detention areas
    - See the Villa Park Storm Water Management General Guidelines.

For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

For Internal Use Only	Petition #:	Date Received:	Fees Paid:

SUBJECT PROPERTY INFORMATION

Property Address: Block bounded by East Vermont Street, North Beverly Avenue, West Terrace Street and North Ardmore Avenue (Development Site)

Parcel Index Number(s):
06-03-122-001; 06-03-122-012; 06-03-122-013; 06-03-122-014; 06-03-122-015; 06-03-122-009 06-03-122-016; 06-03-122-010; 06-03-122-017; 06-03-300-006

Area of Parcel (acres):	Current Zoning:
2.91 acres Development Site	

REQUESTS

Check the applicable request(s) below.

☐ Annexation

☐ Zoning Map Amendment (Rezoning)

☒ Special Use

☒ Planned Unit Development (PUD)

☐ Variation(s)

☒ Subdivision

☐ Administrative Adjustments

REQUIRED DOCUMENTATION

☐ Completed and signed copy of PLANNING AND ZONING APPLICATION

☐ Completed zoning request application (Variation, Special Use, Subdivision, etc.)

☐ Application Fees & Deposit Account

☐ Proof of Ownership (tax bill, deed, etc.)

☐ Legal Description of Property (in word format)

☐ 2 copies of the Plat of Survey, must show current conditions and be no older than 5 years

☐ Receipt from Kane-DuPage Soil and Water Conservation District for Natural Resources Inventory Application

- Contact #: 630-594-7960 ext. 3

For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

PETITIONER INFORMATION	
Petitioner	
Name: Hawthorneworld Villa Park LP/c/o Nick Standiford	Phone: 312-235-6647
Address (City, State, ZIP): 100 Tower Drive, STE 238, Burr Ridge, IL 60527	Email: nstandiford@schainbanks.com visva@hawthorneworld.com
Property Owner (if different from Petitioner)	
Name: Same as Petitioner	Phone:
Address (City, State, ZIP):	Email:

PROJECT NAME
Garden Station Apartments

PROJECT DESCRIPTION
Hawthorne Development Corporation proposes to develop a high quality, mixed-use development with ground floor commercial and residential above. Situated at a gateway location in the Village with proximity to the Villa Park Metra station and exposure to daily commuters, the proposed Garden Station development is designed to add density and create vibrancy in the Downtown with new residents, commuter and community activity. The Project is consistent with the goals and objectives of the North Ardmore/Vermont TIF District.

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

PETITIONER'S EXPERTS	
Attorney	
Contact Person: Nicholas Standiford	Phone: 312-345-5737
Address (City, State, ZIP): 70 W. Madison Street, Suite 5400, Chciago, IL 60602	Email: nstandiford@schainbanks.com
Engineer	
Contact Person: Cemcon, Ltd. Kevin Serafin	Phone: 630-862-2100
Address (City, State, ZIP): 2280 white Oak Circle, Suite 100, Aurora, IL 60502	Email: cadd@cemcon.com
Land Planner	
Contact Person: Jones & Jones Associates Architects PC	Phone: 540-366-3335
Address (City, State, ZIP): 6120 Peters Creek Road, Roanoke, VA 24019	Email: rjones@jonesandjonespc.com
Architect	
Contact Person: Jones & Jones Associates Architects PC	Phone: 540-366-3335
Address (City, State, ZIP): 6120 Peters Creek Road, Roanoke, VA 24019	Email: rjones@jonesandjonespc.com
Landscape Architect	
Contact Person: Gary R. Weber Associates, Inc.	Phone: 630-668-7197
Address (City, State, ZIP): 402 W. Liberty Drive, Wheaton, IL 60187	Email: dshannon@grwainc.com

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

PETITIONER'S EXPERTS CONTINUED	
Surveyor	
Contact Person: Professional Land Surveying, Inc.	Phone: 630-778-1757
Address (City, State, ZIP): 3080 Ogden Avenue, Suite 307, Lisle, IL 60532	Email: info@plslisle.com
Other	
Contact Person:	Phone:
Address (City, State, ZIP):	Email:
Other	
Contact Person:	Phone:
Address (City, State, ZIP):	Email:
Other	
Contact Person:	Phone:
Address (City, State, ZIP):	Email:
Other	
Contact Person:	Phone:
Address (City, State, ZIP):	Email:

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

APPLICATION FEES & DEPOSIT ACCOUNT

Application Fees

- Variation Only
  - Residential
    - First Variation: $150
    - Each Additional: $100
  - All Other (including multi-family)
    - First Variation: $300
    - Each Additional: $200
- Zoning Map Amendment (Rezoning to)
  - Residential
    - $200
  - All Other (including multi-family)
    - $300
  - With Variation
    - Additional fee of $100/ Variation requested
- Plat of Subdivision
  - Residential
    - $100/ subdivided lot
  - All Other (including multi-family)
    - $150/ subdivided lot
  - With Variation
    - Additional fee of $100/ Variation requested
- Amendment, Special Use, Appeal, or other requests where a Public Hearing is required
  - Residential
    - $150
  - All Other (including multi-family)
    - $300

Deposit Account

- Residential
  - Upon initial application: $500
  - Upon each continuance: $250
- Non-Residential
  - Upon initial application: $1,000
  - Upon each continuance: $250

Any and all expenses incurred by the Village on behalf of any applicant, including but not limited to photocopying, reporter fees, transcript fees, publication fees, recording fees, consultant fees, notification fees or any other out-of-pocket expenses incurred on behalf of applicant shall be the sole and exclusive responsibility of the applicant. The amounts set forth hereinafter shall be deposited with the village to cover direct expenses incurred relating to presentation of applications to the Planning & Zoning Commission. The deposited funds shall be held in a separate account by the village to be used either as security for the payment of such expenses or for the actual payment of such expenses as may be provided hereinafter.

For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

Statement of Ownership Interest

The undersigned hereby represents and warrants to the Village of Villa Park that none of the individuals specified in Section 3 of An Ordinance Regulating Code of Certain Elected and Appointed Officers of the Village of Villa Park (a current list of these individuals is listed below and a part of this application) has any ownership interest of five (5%) percent or more in the entity making this application or real estate which is the subject of this application, nor is any of the foregoing individuals an officer, director, or employee of the entity making application.
(If foregoing representation and warranty is inaccurate, state the names of any such individuals who are officers, directors, or employees of the applicant of which have an ownership interest in the application and the nature of such interest).

Applicant(s): Dated: 4/15/25

Hawthorneworld Villa Park LP

Any person who executes an application knowing that statement set out above, or any part thereof, is false shall be in violation of the ordinance and subject to the penalties set out in Section 9 of Ordinance 2323, which states: Section 9: Any violation of a provision of this ordinance shall be a Class C misdemeanor, punishable by a fine not to exceed 400% or imprisonment in other than a penitentiary, for a term less than 30 days. Nothing contained in this ordinance shall be constructed to preclude prosecution under any applicable state law.

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

STAFF/CONSULTANT REVIEW REIMBURSEMENT ACKNOWLEDGEMENT

The undersigned hereby acknowledges their obligation to reimburse the Village of Villa Park for the costs incurred by the Village staff and consultants to review the application attached to this Acknowledgement, including all of the supporting documentation and data, plans, specifications, drawings and other information as required by the applicable sections of the Villa Park Code of Ordinances. The applicant shall deposit into a specified account with the Village at the time of each application. The amount is determined by the Zoning Administrator.

Further, the undersigned represents themselves as having the authority to incur such obligations on behalf of the owner and/or property.

The undersigned further acknowledges that the Village will deduct from this deposit the costs for reviewing the application by the Village's consultants and Village staff at the rate established for each individual by the Village Board and reimbursable expenses incurred for publication, postage and other actual costs associated with this application.

It is further acknowledged that the Village may demand additional payment(s) if the costs incurred during the review of this application exceed the amount of the deposit accompanying this application and may stay all proceedings thereto until such additional sums are deposited with the Village in accordance with the Villa Park Code of Ordinances.

Signature of Applicant or Authorized Agent — Date: 4/16/25

Ganesan Visvabharathy

Name (Please Print or Type)

Hawthorneworld Villa Park LP

Company Name

100 Tower Drive, STE 238

Address

Burr Ridge, IL 60527

City, State, Zip Code

Name of Development

06-03-122-001; 06-03-122-012; 06-03-122-013; 06-03-122-014; 06-03-122-015; 06-03-122-009 06-03-122-016; 06-03-122-010; 06-03-122-017; 06-03-300-006

Parcel Index Number(s)

For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

CONSENT TO ON-SITE INSPECTION

The undersigned are the owners of record of the real estate which is the subject of this petition and do hereby freely and voluntarily consent to inspection of the site by the Zoning Administrator, their designated representative, the Village of Villa Park Planning and Zoning Commission members, and the Village of Villa Park Board for purposes of determining the appropriateness of the pending proposed zoning petition, and hereby release such persons from any liability based in whole or in part on the inspection of the parcel in question.

Signature of Owner of Record

4/16/25

Date

Ganesan Visvabharathy

Name (Please Print or Type)

Hawthorneworld Villa Park LP

Company Name

100 Tower Drive, STE 238

Address

Burr Ridge, IL 60527

City, State, Zip Code

Block bounded by East Vermont Street, North Beverly Avenue, West Terrace Street and North Ardmore Avenue (Development Site)

Site Address

06-03-122-001; 06-03-122-012; 06-03-122-013; 06-03-122-014; 06-03-122-015; 06-03-122-009 06-03-122-016; 06-03-122-010; 06-03-122-017; 06-03-300-006

Parcel Index Number(s)

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

AFFIDAVIT OF OWNERSHIP

STATE OF ILLINOIS:

COUNTY OF DUPAGE:

The undersigned, being first duly sworn, does hereby state that permission is hereby granted to Ganesan Visvabharathy, or his duly authorized agent, to file the necessary documentation within the Village of Villa Park and to pursue the necessary approvals for the proposed use for the property and/or a portion thereof, in the Village of Villa Park, as described on Exhibit A attached hereto. Title to the property to be considered for the above-mentioned zoning relief is held by: Hawthorne world villa Park LP

Subscribed and sworn to before me,
This 15 day of April 20 25

Ganesan Visvibharathi
Name of Owner (Printed)

Notary Public

YOLANDA CONTRERAS
OFFICIAL SEAL
Notary Public, State of Illinois
My Commission Expires
December 07, 2025

Signature of Owner

4-15-2025
Date

Exhibit A – Legal Description of Property Attached

THIS PORTION OF THE FORM ONLY NEEDS TO BE COMPLETED IF THE PROPERTY IS IN TRUST

Name of Trustee: _____

Name of Beneficiaries: _____

The above and foregoing is a complete disclosure of all beneficiaries and/or holders of any beneficial interest in the above-named trust.

_____
Trustee's Signature

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

_____ Being duly sworn on oath deposed and states that he has read the above and foregoing (Trustee's Name Printed) disclosure of beneficiaries of a land trust by him subscribed, knows the contents thereof, and the same are true and correct.

Subscribed and sworn to before me
This _____ day of _____ 20_____

_____
Trustee's Signature

_____
Notary Public

PLANNING & ZONING APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

GENERAL PATH OF THE PETITION

Pre-Application Meeting: Pre-Application Meeting with representatives from the Community & Economic Development Department and other departments as needed, such as Public Works Department and Fire Department, as an informal meeting to discuss the proposal and any requirements.

Application Procedure: The applicant shall prepare and submit to the Director of Community & Economic Development all information required, including but not limited to completed application(s), all materials identified in the checklist, and all applicable fees.

Meeting Dates & Application Deadlines: All materials shall be completed in full and approved by the Director of Community & Economic Development at least 4 weeks in advance of the scheduled public hearing. The Planning & Zoning Commission meets on the second Thursday of each month at 7:30 p.m. in the Board Room of Village Hall, 20 South Ardmore Avenue. At the call of the chairperson and at such other times as such commission or the corporate authorities may determine, other meetings may be held. See the current submittal calendar for dates.

Public Notice Procedures: Between 15 to 30 days prior to the public hearing, notice is published in a local newspaper and all adjacent property owners within 250' exclusive of right-of-way are mailed notice of the upcoming public hearing. In addition, the Village will place Notice of Public Hearing sign(s) on the subject property.

Public Hearing Process: A Public Hearing shall be convened on a date established by the published notice. You are required to attend this public hearing to present the evidence and testimony and to answer any questions from the public and the commission. Applicants are encouraged to make extensive use of exhibits to illustrate their application.

Public Hearing Procedure: Typical process is outlined below. Please note that no further testimony on this matter can be considered after the close of the public hearing.

a. Staff Input
b. Presentation of Petitioner
c. Public Participation and Questions
d. Questions from the Commission
e. Closing Comments of Petitioner
f. Close Public Hearing
g. Discussion by Commission Members
h. Motion

In cases where the Planning & Zoning Commission finds that the anticipated increased activity in the Village due to the proposed development requires the provision of additional public service, facilities or the like, the Planning & Zoning Commission may require a dedication or reservation of land, monetary payments or the construction of improvements, as a legal condition of approval for subdivision or development. Such developer contributions shall not be required unless the anticipated increased activity necessitating the contribution is specifically and uniquely attributable to activities of the developer which generates costs, which would otherwise be cast upon the public.

Readings of the Ordinance: There is typically one meeting for Ordinance approval. If the Village Board requests additional information, the vote may be postponed, or the petition may be returned to PZC for additional information.

Building Permits: For any construction, a building permit will be required. Don't forget to apply for permits prior to beginning any work. The building permit review may be concurrent with the Zoning Petition process.

For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

SPECIAL USE APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

For Internal Use Only	Petition #:	Date Received:	Fees Paid:

SUBJECT PROPERTY INFORMATION

Property Address:
Block bounded by East Vermont Street, North Beverly Avenue, West Terrace Street and North Ardmore Avenue (Development Site)

06-03-122-001; 06-03-122-012; 06-03-122-013; 06-03-122-014; 06-03-122-015; 06-03-122-009
06-03-122-016; 06-03-122-010; 06-03-122-017; 06-03-300-006

SUMMARY OF REQUEST

Special Use(s) Requested:

Development Site: Hawthorne Development Corporation ("Applicant") is pleased to submit a Zoning Application for Garden Station, a mixed-use development, at the block bounded by East Vermont Street, North Beverly Avenue, West Terrace Street and North Ardmore Avenue, (the "Project"). The Project is located within the North Ardmore/Vermont TIF (TIF #6). The Applicant is requesting a map amendment to change zoning from Planned Unit Development - Commercial (P.U.D. – C), Mixed-Use TOD District (MX-1), Mixed Residential District 1 (MX-R1), and Mixed Residential District 2 (MX-R2), to Mixed-Use TOD District (MX-1) for the Project. The Applicant is also seeking a Special Use for a Planned Unit Development for the Projec.

Brief Project Description:

Hawthorne Development Corporation proposes to develop a high quality, mixed-use development with ground floor commercial and residential above. Situated at a gateway location in the Village with proximity to the Villa Park Metra station and exposure to daily commuters, the proposed Garden Station development is designed to add density and create vibrancy in the Downtown with new residents, commuter and community activity. The Project is consistent with the goals and objectives of the North Ardmore/Vermont TIF District.

Executive Summary – Background information and highlights of proposed project (goals, logistics, hours of operation, number of employees/visitors, project constraints, etc.):

Building Construction and Materials. The Project will be constructed using a steel and concrete podium with fire resistant wood frame construction on floors 3 through 7. Lumber uses embedded carbon, as opposed to steel and concrete which involve significant carbon production during the manufacturing process. As a mission-driven company, Hawthorne prefers wood due to its amiable environmenGreen Features. In addition to the redevelopment of an underutilized site into an attractive and high-quality development, the Project will have the unique status as the largest multi-family Passive House project in the United States. The Project has been designed to meet the Gold rating for National Green Building Standards and achieve Net Zero energy usage. This type of construction delivers a superior quality building with extreme energy efficiencies. The benefits extend to the resident through exceptional indoor air quality, consistent indoor temperatures and lower utility bills.tal footprint. Exterior frame and finish materials include split face CMU or concrete panels, ACM panels in tan and shades of gray, and translucent window glazing. This is an allelectric building and the carbon production for this development is zero. This is significant, since construction contributes 60% of all carbon footprint in the US.

Project Uses. The proposed Garden Station Project consists of ground floor commercial space with a maximum of 348 residential units, residential amenity space, a restaurant, and minimum of 442 parking spaces.

Green Features. In addition to the redevelopment of an underutilized site into an attractive and high-quality development, the Project will have the unique status as the largest multi-family Passive House project in the United States. The Project has been designed to meet the Gold rating for National Green Building Standards and achieve Net Zero energy usage. This type of construction delivers a superior quality building with extreme energy efficiencies. The benefits extend to the resident through exceptional indoor air quality, consistent indoor temperatures and lower utility bills.

SPECIAL USE APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

FINDINGS OF FACT

Please fill out the following information. For multiple special use requests, submit separate answers for each request. Yes or no answers are not acceptable.

I do hereby apply for the following Special Use:

Planned Unit Development

A. That the proposed use or activity is expressly authorized as a special use;

A Planned Unit Devleopment is expressly allowed as a Special Use pursuant to Illinois Municipal Code, 65 ILCS 5/11-13-1.1.

B. That the proposed use at the proposed location is necessary or desirable to provide a service or a facility that is in the interest of public convenience and will contribute to the general welfare of the neighborhood or community;

The development of a sustainable, Transit-Oriented, mixed-use development will greatly benefit the general welfare of the community by providing increase housing options, and reducing vehicle use.

C. That the proposed use will not, in the particular case, be detrimental to the health, safety, or general welfare of persons residing or working in the vicinity or be injurious to property values or improvements in the vicinity.

This development will benefit the surrounding properties by activating the block.

Continue to next page

SPECIAL USE APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

A. That approval of the special use will not impede the normal and orderly development and improvement of surrounding property for uses permitted in the district; This development is desinged in a way to minimize impacts on surrounding property including traffic impacts.
B. That the proposed special use will be served by adequate utilities, access roads, parking, drainage and other important and necessary facilities, infrastructure, and community services; This development is designed in a way to maximize the usefulness of current infrastructure.
C. That the proposed special use complies with all applicable regulations of this zoning ordinance except as expressly approved in accordance with the procedures of this zoning ordinance. This development is designed in a way to comply with all applicable regulations of the zoning code except as described in the attached application materials.

If Daycare Home Use, the type requested is for:	Day ☐ Night ☐ Day & Night ☐ Provide a separate list of children under the age of 16, listing their name and age, that are permanent residents of the above address. Include Name: I/ We give permission to the Village of Villa Park to perform all inspections as stated in Ordinance #1195 and #1893.

SPECIAL USE APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

APPLICATION CHECKLIST

An electronic submittal is required. The full application may be sent to sbarajas@invillapark.com

☐ Complete PLANNING AND ZONING APPLICATION
☐ Complete SPECIAL USE APPLICATION
☐ Plat of Survey, indicating existing conditions and no more than 5 years old

Three Copies of the following:
☐ Full Site Plan (showing structures, setbacks, parking, etc.)
☐ Landscape Plan
☐ Lighting and Photometric Plan with cutsheet
☐ Elevation Plan and Architectural Plan Set
☐ Plat of Subdivision with all easements, vacations, etc.
☐ Full Engineering Plan Set, including:

- Topographic survey sufficient to determine on-site and off-site drainage calculations
- Civil site plan must show location of existing and proposed sanitary sewers, services, septic systems, water mains, services and wells
- If over one acre, submit Notice of Intent form to the IL EPA
- Traffic impact study/report, if needed, as determined by Village Engineer
- For large residential developments and all commercial developments, the following is required:
    - DuPage County Stormwater Management Permit Application and fee
    - Soil Erosion and Sediment Control Details and Record Drawings Certification forms
    - Existing site runoff calculations, including upstream drainage to be by-passed through site
    - Proposed site runoff storage calculations
    - Analysis of off-site drainage
    - Costs estimates of storm water facilities, swales, and detention areas
    - See the Villa Park Storm Water Management General Guidelines.

For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

SUBDIVISION APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

For Internal Use Only	Petition #:	Date Received:	Fees Paid:

APPLICATION TYPE (check one)	☐ Preliminary	☒ Final	☐ Administrative

SUBJECT PROPERTY INFORMATION

Property Address:
Block bounded by East Vermont Street, North Beverly Avenue, West Terrace Street and North Ardmore Avenue (Development Site)

Parcel Index Number(s):
06-03-122-001; 06-03-122-012; 06-03-122-013; 06-03-122-014; 06-03-122-015; 06-03-122-009
06-03-122-016;06-03-122-010; 06-03-122-017; 06-03-300-006

SUMMARY OF REQUEST

Brief Project Description:
Hawthorne Development Corporation proposes to develop a high quality, mixed-use development with ground floor commercial and residential above. Situated at a gateway location in the Village with proximity to the Villa Park Metra station and exposure to daily commuters, the proposed Garden Station development is designed to add density and create vibrancy in the Downtown with new residents, commuter and community activity. The Project is consistent with the goals and objectives of the North Ardmore/Vermont TIF District.

SUBDIVISION APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

APPLICATION CHECKLIST

An electronic submittal is required. The full application may be sent to sbarajas@invillapark.com

☐ Complete PLANNING AND ZONING APPLICATION

☐ Complete SUBDIVISION APPLICATION

Three Full-Sized Copies of the following:

☐ Plat of Subdivision with all easements, vacations, etc.

☐ Plat of Survey, indicating existing conditions and no more than 5 years old

☐ Preliminary Site/ Development Plan

☐ Full Engineering Plan Set (for major subdivisions)

- Topographic survey sufficient to determine on-site and off-site drainage calculations
- Civil site plan must show location of existing and proposed sanitary sewers, services, septic systems, water mains, services and wells
- If over one acre, submit Notice of Intent form to the IL EPA
- Traffic impact study/report, if needed, as determined by Village Engineer
- For large residential developments and all commercial developments, the following is required:
    - DuPage County Stormwater Management Permit Application and fee
    - Soil Erosion and Sediment Control Details and Record Drawings Certification forms
    - Existing site runoff calculations, including upstream drainage to be by-passed through site
    - Proposed site runoff storage calculations
    - Analysis of off-site drainage
    - Costs estimates of storm water facilities, swales, and detention areas
    - See the Villa Park Storm Water Management General Guidelines.

For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

SUBDIVISION APPLICATION

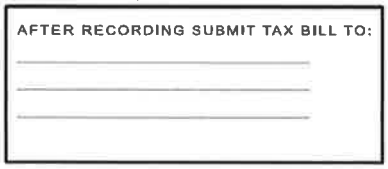
VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

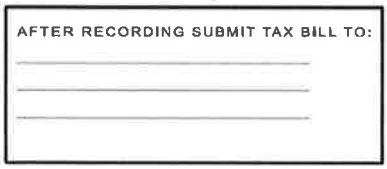
REQUIREMENTS TO RECORD A PLAT

The following items must be on the Plat of Subdivision:

- Permanent Parcel Number
- Legal Description
- Title
- Surveyor's or Engineer's Signature & Seal
- Owner's Signature, Notarized
- County Clerk's Signature & Seal
- Village Board Certificate to be signed by Village President and attested by Village Clerk
- Planning and Zoning Commission Certificate to be signed by Chairperson
    - Replaced with Director of Community & Economic Development Certificate if Administrative Subdivision
- Village Engineer Certificate
- Village Treasurer Certificate
- DuDOT or IDOT Certificates may be required if developing adjacent to their right-of-way.
- "After Recording Submit Tax Bill To" box



- "Plat Submitted By and Return To" box with Village of Villa Park name and address



For questions or concerns, contact the Community & Economic Development Department.
11 W Home Ave, Villa Park, IL 60181 | planning@invillapark.com | 630-433-4300

SUBDIVISION APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

PLAT CERTIFICATES

OWNER AND NOTARY CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF DU PAGE) SS

THIS IS TO CERTIFY THAT HAWTHORNEWORLD VILLA PARK LP _____ AS OWNER OF THE PROPERTY DESCRIBED IN THE ANNEXED PLAT, HAS CAUSED THE SAME TO BE PLATTED AS INDICATED HEREON, FOR THE USES AND PURPOSED THEREIN SET FORTH AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREON INDICATED.

YOLANDA CONTRERAS
OFFICIAL SEAL
Notary Public, State of Illinois
My Commission Expires
December 07, 2025

WE FURTHER CERTIFY THAT THE PROPERTY HEREIN SUBDIVIDED LIES WITHIN VILLA PARK, IL DUPAGE COUNTY

DATED AT BURR RIDGE, ILLINOIS, THIS 17 DAY OF APRIL A.D., 2025.

BY: _____

STATE OF ILLINOIS)
COUNTY OF) SS

I, _____, A NOTARY PUBLIC IN AND FOR SAID COUNTY IN THE STATE AFORESAID, DO HEREBY CERTIFY THAT _____ AND _____, OF _____ _____, PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING INSTRUMENT AS SUCH _____ AND _____, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED AND DELIVERED THE SAID INSTRUMENT AS THEIR OWN FREE AND VOLUNTARY ACT AND AS THE FREE AND VOLUNTARY ACT OF SAID CORPORATION, FOR THE USES AND PURPOSES THEREIN SET FORTH AND THE SECREATY DID ALSO THEN AND THERE ACKNOWLEDGE THAT HE, AS CUSTODIAN OF THE CORPORATE SEAL OF SAID CORPORATION, DID AFFIX SAID CORPORATE SEAL TO SAID INSTRUMENT AS HIS OWN FREE AND VOLUNTARY ACT AND AS THE FREE AND VOLUNTARY ACT OF SAID CORPORATION, FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL AT _____ A.D., 20_____.

BY:_____
NOTARY PUBLIC

_____
MY COMMISSION EXPIRES

SUBDIVISION APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

PLANNING AND ZONING COMMISSION CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF DUPAGE) SS

THIS IS TO CERTIFY THAT THE PLANNING AND ZONING COMMISSION OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS HAS REVIEWED AND APPROVED THIS PLAT.

DATED AT VILLA PARK, DUPAGE COUNTY, ILLINOIS

THIS _____ DAY OF _____, A.D. 20_____.

BY: _____
CHAIRPERSON

VILLAGE TREASURER CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF DUPAGE) SS

I, _____, VILLAGE TREASURER FOR THE VILLAGE OF VILLA PARK, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT OR UNPAID OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE NOT BEEN APPORTIONED AGAINST THE TRACT, INCLUDED IN THIS PLAT

DATED AT VILLA PARK, DUPAGE COUNTY, ILLINOIS
THIS _____ DAY OF _____, A.D., 20_____.

_____
VILLAGE TREASURER

VILLAGE BOARD CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF DUPAGE) SS

APPROVED AND ACCEPTED BY THE VILLAGE BOARD OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS, AT A MEETING HELD THIS _____ DAY OF _____, A.D., 20_____.

BY: _____
PRESIDENT

ATTEST: _____
VILLAGE CLERK

SUBDIVISION APPLICATION

VILLAGE OF VILLA PARK

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

VILLAGE ENGINEER CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF DUPAGE) SS

I, _____, VILLAGE ENGINEER OF THE VILLAGE OF VILLA PARK, ILLINOIS, HEREBY CERTIFY THAT THE LAND IMPROVEMENT DESCRIBED IN THE PLAT AND SPECIFICATIONS THEREFORE, MEET THE MINIMUM REQUIREMENTS OF THE VILLAGE AND HAVE BEEN APPROVED BY ALL PUBLIC AUTHORITIES HAVING JURISDICTION THEREOF.
DATED AT VILLA PARK, DUPAGE COUNTY, ILLINOIS

THIS _____ DAY OF _____, A.D., 20_____.

_____
VILLAGE ENGINEER

_____
REGISTRATION NUMBER

COUNTY CLERK CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF DUPAGE) SS

I, _____, COUNTY CLERK OF DUPAGE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT GENERAL TAXES, NO UNPAID CURRENT GENERAL TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE PLAT. I FURTHER CERTIFY THAT I HAVE RECEIVED ALL STATUTORY FEES IN CONNECTION WITH THE PLAT.

GIVEN UNDER MY HAND AND SEAL OF THE COUNTY CLERK, DATED AT WHEATON, DUPAGE COUNTY, ILLINOIS THIS _____ DAY OF _____, 20__.

_____
COUNTY CLERK

DUPAGE COUNTY RECORDER'S CERTIFICATE

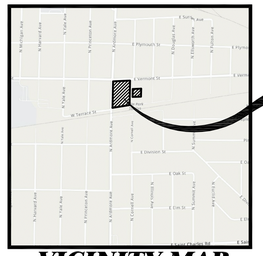
STATE OF ILLINOIS)
COUNTY OF DU PAGE) SS

THIS INSTRUMENT NO. _____ WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF DU PAGE COUNTY, ILLINOIS, AFORESAID, ON THE _____ DAY OF _____, A.D. 20 _____, AT _____ O'CLOCK ____. M.

_____

FINAL PLAT OF SUBDIVISION FOR GARDEN STATION SUBDIVISION

BEING A PART OF THE WEST HALF OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS.



VICINITY MAP

AFTER RECORDING SUBMIT TAX BILL TO:

_____
_____
_____

PLAT SUBMITTED BY AND RETURN TO:

_____
_____
_____

PARCEL INDEX NUMBERS

06-03-122-001	415 N. ARDMORE AVE.
06-03-122-009	408 N. BEVERLY AVE.
06-03-122-010	406 N. BEVERLY AVE.
06-03-122-012	416 N. BEVERLY AVE.
06-03-122-013	414 N. BEVERLY AVE.
06-03-122-014	412 N. BEVERLY AVE.
06-03-122-015	410 N. BEVERLY AVE.
06-03-122-016	401 N. ARDMORE AVE.
06-03-122-017	400 N. BEVERLY AVE.
06-03-123-006	407-9 N. BEVERLY AVE.
06-03-123-007	403 N. BEVERLY AVE.
06-03-300-005	351 N. ARDMORE AVE.
06-03-301-002	20 S. ARDMORE AVE.

VILLA PARK, IL

N

30 15 0 30

SCALE: 1 INCH = 30 FEET

TOTAL AREA OF SUBDIVISION

3.360 ACRES

(MORE OR LESS)

LOT AREA SUMMARY TABLE

LOT NO.	SQ. FT.
1	126,575
2	19,781

LEGEND

- SUBDIVISION BOUNDARY LINE (Heavy Solid Line)
- LOT LINE/PROPERTY LINE (Solid Line)
- ADJACENT LOT LINE/PROPERTY LINE (Light Solid Line)
- EXISTING BUILDING LINE (Long Dashed Lines)
- EASEMENT LINE/LIMITS OF EASEMENT (Short Dashed Lines)
- SET CONCRETE MONUMENT

NOTES

3/4 INCH IRON PIPE OR OTHER PERMANENT SURVEY MARKER SET AT ALL LOT CORNERS AND POINTS OF CURVATURE UNLESS OTHERWISE NOTED.

ALL MEASUREMENTS ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF.

DIMENSIONS SHOWN ALONG CURVES ARE ARC DISTANCES.

DIMENSIONS ENCLOSED WITH ( ) ARE RECORD DATA. ALL OTHER DIMENSIONS ARE MEASURED.

ALL EASEMENTS ARE HEREBY GRANTED UNLESS OTHERWISE NOTED.

P.E. – INDICATES PUBLIC UTILITY AND DRAINAGE EASEMENT HEREBY GRANTED. SEE PROVISIONS FOR DETAILS.

B.L. – BUILDING SETBACK LINE

THE BEARINGS SHOWN ARE BASED UPON THE NORTH LINE OF SUBJECT SITE BEING N 87°42'40" E (ASSUMED).

F.I.P. = FOUND IRON PIPE (ø AS SHOWN)

BLANKET PUBLIC UTILITY EASEMENT HEREBY GRANTED OVER ALL OF LOTS 1 AND 2 EXCEPT WHERE FUTURE BUILDINGS AND APPURTANANCES THEREOF ARE CONSTRUCTED. SEE PROVISIONS CONTAINED HEREIN.

VERMONT STREET
HERETOFORE DEDICATED PER DOC. 172335
(60') R.O.W.

N 87°42'40" E 289.88'

15' BUILDING LINE PER DOC. 172335 HEREBY ABROGATED

GEORGE M. COLLINS VILLA PARK PER DOC. 172335

(100') R.O.W.

ARDMORE AVENUE
HERTOFORE DEDICATED

BLOCK 1
ARDMORE HIGHLANDS PER DOC. 162022

LOT 1

N 01°13'10" E 453.95'

S 01°13'10" W 420.98'

BEVERLY AVENUE
(50' R.O.W.)

N 01°13'10" E 136.60'

S 01°09'49" W 136.70'

N 87°39'15" E 144.97' (145.00')

LOT 89 LOT 96 LOT 97 LOT 90 LOT 91 LOT 95 LOT 92 LOT 93 LOT 94 LOT 157 LOT 2 LOT 158

5' ILLINOIS BELL TELEPHONE AND COMMONWEALTH EDISON EASEMENT PER DOC. R77-18349 HEREBY RELEASED AND TERMINATED

15' BUILDING LINE PER DOC. 172335 HEREBY ABROGATED

15' VACATED ALLEY PER DOC. R2010-013473

15' PUBLIC ALLEY VACATED PER DOC. R2021-102135

VILLAGE EASEMENT RESERVATIONS PER SAID DOCUMENTS ARE HEREBY RELEASED AND TERMINATED ACKNOWLEDGED BY THE VILLAGE'S APPROVAL AND EXECUTION OF THIS PLAT

5' ILLINOIS BELL TELEPHONE AND COMMONWEALTH EDISON EASEMENT PER DOC. R77-18349 HEREBY RELEASED AND TERMINATED

S 81°16'44" W 293.75'

S 87°41'51" W 145.10' (145.00')

15' PUBLIC ALLEY PER DOC. 196958

TOWNLEY'S VILLA PARK HIGHLANDS PER DOC. 196958

TERRACE STREET
(50' R.O.W.)

UNION PACIFIC RAILROAD

PREPARED FOR:

HAWTHORNE DEVELOPMENT CORPORATION
100 TOWER DRIVE, SUITE 238
BURR RIDGE, IL 60527
(312) 235-6647

PREPARED BY:

CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100 Aurora, Illinois
60502-9675 PH: 630.862.2100 FAX: 630.862.2199
www.cemcon.com

DISC NO.: 904351 FILE NAME: SUBPLAT
DRAWN BY: AJB FLD. BK. / PG. NO.: D93 & NOTES
COMPLETION DATE: 09-14-21 JOB NO.: 904.351
REVISED 12-13-21\AJB REVISED EASEMENT PROVISIONS
REVISED 05-20-25\AJB PER VILLAGE COMMENTS DATED 04-23-25

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PLOT FILE CREATED: 5/20/2025 BY: TONY BLUS DRAWING PATH: P:\904351\DWG\SURVEY\DRAWINGS\PLATS\SUBPLAT.DWG

OWNER AND NOTARY CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF COOK)

THIS IS TO CERTIFY THAT HAWTHORNE DEVELOPMENT CORPORATION AS OWNER OF THE PROPERTY DESCRIBED IN THE ANNEXED PLAT, HAS CAUSED THE SAME TO BE PLATTED AS INDICATED HEREON, FOR THE USES AND PURPOSED THEREIN SET FORTH AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE STYLE AND TITLE THEREON INDICATED.

WE FURTHER CERTIFY THAT THE PROPERTY HEREIN SUBDIVIDED LIES WITHIN:

HIGH SCHOOL DISTRICT: DUPAGE HIGH SCHOOL DISTRICT #88
GRADE SCHOOL DISTRICT: #D45
JR. COLLEGE DISTRICT: #502 COLLEGE OF DUPAGE

DATED AT _____, ILLINOIS,

THIS _____ DAY OF _____ A.D., 20___.

BY: _____

STATE OF ILLINOIS)
SS.
COUNTY OF COOK)

I, _____, A NOTARY PUBLIC IN AND FOR SAID COUNTY IN THE STATE AFORESAID, DO HEREBY CERTIFY THAT _____ AND _____, OF HAWTHORNE DEVELOPMENT CORPORATION, PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING INSTRUMENT AS SUCH _____ AND _____, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED AND DELIVERED THE SAID INSTRUMENT AS THEIR OWN FREE AND VOLUNTARY ACT AND AS THE FREE AND VOLUNTARY ACT OF SAID CORPORATION, FOR THE USES AND PURPOSES THEREIN SET FORTH AND THE SECREATY DID ALSO THEN AND THERE ACKNOWLEDGE THAT HE, AS CUSTODIAN OF THE CORPORATE SEAL OF SAID CORPORATION, DID AFFIX SAID CORPORATE SEAL TO SAID INSTRUMENT AS HIS OWN FREE AND VOLUNTARY ACT AND AS THE FREE AND VOLUNTARY ACT OF SAID CORPORATION, FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL AT A.D., 20___.

BY: _____
NOTARY PUBLIC

_____
MY COMMISSION EXPIRES

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT I, JEFFREY R. PANKOW, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED AND SUBDIVIDED THE FOLLOWING DESCRIBED PROPERTY:

LOTS 89 THROUGH 97, INCLUSIVE, IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335, IN DUPAGE COUNTY ILLINOIS.

LOTS 1 THROUGH 11, BOTH INCLUSIVE, IN TOWNLEY'S VILLA PARK HIGHLANDS, BEING A SUBDIVISION IN THE SOUTHWEST 1/4 OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JULY 28, 1925 AS DOCUMENT NUMBER 196958, IN DUPAGE COUNTY, ILLINOIS.

LOTS 157 AND 158 IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT 172335, IN DUPAGE COUNTY, ILLINOIS.

ALSO:
THE 15 FOOT VACATED PUBLIC ALLEY PER DOCUMENT R2010-013473 AND THE 15 FOOT PUBLIC ALLEY LYING SOUTH OF SAID LOT 94 PER SAID TOWNLEY'S VILLA PARK HIGHLANDS SUBDIVISION, IN DUPAGE COUNTY, ILLINOIS.

I FURTHER CERTIFY THAT THE PROPERTY SHOWN ON THE PLAT HEREON DRAWN IS SITUATED WITHIN THE CORPORATE LIMITS OF THE VILLAGE OF VILLA PARK WHICH HAS ADOPTED A COMPREHENSIVE PLAN AND WHICH IS EXERCISING THE SPECIAL POWERS AUTHORIZED BY DIVISION 12 OF ARTICLE II OF ILLINOIS MUNICIPAL CODE AS HERETOFORE AND HEREAFTER AMENDED AND THAT BASED UPON A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 17043C0088J WITH AN EFFECTIVE DATE OF AUGUST 1, 2019 IT IS OUR OPINION THAT THE PROPERTY DESCRIBED HEREON FALLS WITHIN ZONE X AS DESIGNATED AND DEFINED BY F.E.M.A.

GIVEN UNDER MY HAND AND SEAL THIS ___ DAY OF _____, A.D., 20___.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3483
MY REGISTRATION EXPIRES ON NOVEMBER 30, 2026
PROFESSIONAL DESIGN FIRM LICENSE NO. 184-002937
EXPIRATION DATE IS APRIL 30, 2027

MORTGAGEE'S CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF _____)

THIS IS TO CERTIFY THAT _____, AS MORTGAGEE UNDER THE MORTGAGE RECORDED AS DOCUMENT NUMBER _____ DATED _____, HEREBY CONSENTS TO RECORDING OF THE PLAT AS HEREON SHOWN.

DATED AT _____, ILLINOIS, THIS ___ DAY _____, A.D., 20___.

BY: _____ ATTEST: _____

TITLE: _____ TITLE: _____

NOTARY'S CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF)

THE UNDERSIGNED, A NOTARY PUBLIC IN THE COUNTY AND STATE AFORESAID, DO HEREBY CERTIFY THAT (NAME) _____, (TITLE) _____ OF _____ AND (NAME) _____, (TITLE) _____ OF _____ WHO ARE PERSONALLY KNOWN TO ME TO BE THE SAME PERSONS WHOSE NAMES ARE SUBSCRIBED TO THE FOREGOING INSTRUMENT AS SUCH (TITLE) _____ AND (TITLE) _____ RESPECTIVELY, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT THEY SIGNED AND DELIVERED THE SAID INSTRUMENT AS THEIR OWN FREE AND VOLUNTARY ACT, AND AS THE FREE AND VOLUNTARY ACT OF SAID _____, AS MORTGAGEE, FOR THE USES AND PURPOSES THEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS _____ DAY OF _____, A.D., 20_____.

_____
NOTARY PUBLIC

DUPAGE COUNTY CLERK'S CERTIFICATE

STATE OF ILLINOIS)
SS
COUNTY OF DUPAGE)

I, _____, COUNTY CLERK OF DUPAGE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUENT GENERAL TAXES, NO UNPAID CURRENT TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE ANNEXED PLAT.

I FURTHER CERTIFY THAT I HAVE RECEIVED ALL STATUTORY FEES IN CONNECTION WITH THE ANNEXED PLAT.

GIVEN UNDER MY HAND AND SEAL OF THE COUNTY CLERK AT WHEATON, ILLINOIS,

THIS _____ DAY OF _____, 20_____.

_____
COUNTY CLERK

DUPAGE COUNTY RECORDER'S CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

THIS INSTRUMENT _____ WAS FILED FOR RECORD IN THE RECORDER'S OFFICE OF DUPAGE COUNTY, ILLINOIS, ON THE ___ DAY OF _____, A.D. 20___ AT _____ O'CLOCK _____.M.

_____
RECORDER OF DEEDS

SURFACE WATER STATEMENT

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SUBDIVISION OR ANY PART THEREOF, OR, THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION.

DATED THIS _____ DAY OF _____,A.D., 20___.

_____
ILLINOIS REGISTERED PROFESSIONAL ENGINEER

_____
STATE REGISTRATION NUMBER

_____
REGISTRATION EXPIRATION DATE

OWNER COMPANY NAME: _____

BY: _____ PRINT

ATTEST: _____
SIGNATURE

TITLE: _____
PRINT TITLE

VILLAGE BOARD CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

APPROVED AND ACCEPTED BY THE VILLAGE BOARD OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS, AT A MEETING HELD THIS _____ DAY OF _____, A.D., 20____.

BY: _____
PRESIDENT

ATTEST: _____
VILLAGE CLERK

PLANNING AND ZONING COMMISSION CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT THE PLANNING AND ZONING COMMISSION OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS HAS REVIEWED AND APPROVED THIS PLAT.

DATED AT VILLA PARK, DUPAGE COUNTY, ILLINOIS

THIS DAY _____ OF _____, A.D. 20___ .

BY: _____
CHAIRPERSON

VILLAGE ENGINEER CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

I, _____, VILLAGE ENGINEER OF THE VILLAGE OF VILLA PARK, ILLINOIS, HEREBY CERTIFY THAT THE LAND IMPROVEMENT DESCRIBED IN THE PLAT AND SPECIFICATIONS THEREFORE, MEET THE MINIMUM REQUIREMENTS OF THE VILLAGE AND HAVE BEEN APPROVED BY ALL PUBLIC AUTHORITIES HAVING JURISDICTION THEREOF.
DATED AT VILLA PARK, DUPAGE COUNTY, ILLINOIS

THIS _____ DAY OF _____, A.D., 20_____.

_____
VILLAGE ENGINEER

_____
REGISTRATION NUMBER

VILLAGE TREASURER CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

I, _____, TREASURER FOR THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELINQUESTN OR UNPAID CURRENT OR FORFEITED SPECIAL ASSESSMENTS OR ANY DEFERRED INSTALLMENTS THEREOF THAT HAVE BEEN APPORTIONED AGAINST THE TRACT OF LAND INCLUDED ON THIS PLAT.

DATED THIS _____ DAY OF_____, A.D., 20____.

DATED THIS _____ DAY OF_____, A.D., 20____.

BY: _____
VILLAGE TREASURER

PUBLIC UTILITY EASEMENT PROVISIONS

ALL EASEMENTS INDICATED AS "BLANKET EASEMENT" ARE HEREBY RESERVED FOR AND GRANTED TO THE VILLAGE OF VILLA PARK, ITS SUCCESSORS, ASSIGNS, AND DESIGNEES FOR THE PERPETUAL RIGHT, PRIVILEGE AND AUTHORITY TO CONSTRUCT, RECONSTRUCT, TEST, REPAIR, INSPECT, MAINTAIN, OPERATE, AND PATROL VARIOUS UTILITY, TRANSMISSION AND DISTRIBUTION SYSTEMS, INCLUDING ELECTRICAL SYSTEMS, WATER, SEWER, DRAINAGE OR STORMWATER SYSTEMS TOGETHER WITH ANY AND ALL NECESSARY MANHOLES, DUCTBANKS, MAINS, VALVE VAULTS, HYDRANTS, CATCH BASINS, CONNECTIONS, APPLIANCES, APPURTENANCES, AND OTHER STRUCTURES AS MAY BE DEEMED NECESSARY BY THE VILLAGE OR ITS DESIGNEES FOR THE PURPOSE OF SERVING ALL AREAS SHOWN ON THIS PLAT AS WELL AS OTHER PROPERTY, WHETHER OR NOT CONTIGUOUS THERETO, OVER, UPON, ALONG, UNDER, OR THROUGH SAID EASEMENTS, TOGETHER WITH THE RIGHT OF ACCESS ACROSS THE PROPERTY FOR NECESSARY WORKERS AND EQUIPMENT TO DO ANY OF THE ABOVE WORK.

THE RIGHT IS ALSO GRANTED TO CUT DOWN, TRIM OR REMOVE TREES, SHRUBS OR OTHER PLANTS ON THE EASEMENT THAT INTERFERE WITH THE OPERATION OF ANY OF THE UTILITIES. PERMANENT STRUCTURES INCLUDING APPURTENANCES THEREOF (I.E. STOOPS, PATIOS, CANOPIES, ETC.) MAY BE PLACED ON SAID EASEMENT PER SITE PLANS APPROVED BY THE VILLAGE.

ALL CONSTRUCTION BY ANY ENTITY WITHIN THE EASEMENTS HEREBY GRANTED SHALL BE PERFORMED IN ACCORDANCE WITH THE VARIOUS REQUIREMENTS OF THE ORDINANCES AND REGULATIONS OF THE VILLAGE OF VILLA PARK.

THE ABOVE NOTWITHSTANDING, THE VILLAGE OF VILLA PARK, OR ITS DESIGNEES, SHALL, UPON COMPLETION OF ANY WORK AUTHORIZED BY THIS GRANT, RESTORE THE EASEMENT PREMISES TO THE SAME OR BETTER CONDITION THAN THAT EXISTING PRIOR TO BEGINNING OF THE WORK.

BLANKET EASEMENT PROVISIONS

AN EASEMENT FOR SERVING THE SUBDIVISION AND OTHER PROPERTY WITH ELECTRIC AND COMMUNICATION SERVICE IS HEREBY RESERVED FOR AND GRANTED TO

COMMONWEALTH EDISON COMPANY
AND
SBC TELEPHONE COMPANY, GRANTEES,

THEIR RESPECTIVE LICENSEES, SUCCESSORS AND ASSIGNS JOINTLY AND SEVERALLY, TO CONSTRUCT, OPERATE, REPAIR, MAINTAIN, MODIFY, RECONSTRUCT, REPLACE, SUPPLEMENT, RELOCATE AND REMOVE, FROM TIME TO TIME, POLES, GUYS, ANCHORS, WIRES, CABLES, CONDUITS, MANHOLES, TRANSFORMERS, PEDESTALS, EQUIPMENT CABINETS OR OTHER FACILITIES USED IN CONNECTION WITH OVERHEAD AND UNDERGROUND TRANSMISSION AND DISTRIBUTION OF ELECTRICITY, COMMUNICATIONS, SOUNDS AND SIGNALS IN, OVER, UNDER, ACROSS, ALONG AND UPON THE SURFACE OF THE PROPERTY SHOWN WITHIN THE DASHED OR DOTTED LINES (OR SIMILAR DESIGNATION) ON THE PLAT AND MARKED "EASEMENT", "UTILITY EASEMENT", "PUBLIC UTILITY EASEMENT", "P.U.E" (OR SIMILAR DESIGNATION), THE PROPERTY DESIGNATED IN THE DECLARATION OF CONDOMINIUM AND/OR ON THIS PLAT AS "COMMON ELEMENTS", AND THE PROPERTY DESIGNATED ON THE PLAT AS "COMMON AREA OR AREAS", AND THE PROPERTY DESIGNATED ON THE PLAT FOR STREETS AND ALLEYS, WHETHER PUBLIC OR PRIVATE, TOGETHER WITH THE RIGHTS TO INSTALL REQUIRED SERVICE CONNECTIONS OVER OR UNDER THE SURFACE OF EACH LOT AND COMMON AREA OR AREAS TO SERVE IMPROVEMENTS THEREON, OR ON ADJACENT LOTS, AND COMMON AREA OR AREAS, THE RIGHT TO CUT, TRIM OR REMOVE TREES, BUSHES, ROOTS AND SAPLINGS AND TO CLEAR OBSTRUCTIONS FROM THE SURFACE AND SUBSURFACE AS MAY BE REASONABLY REQUIRED INCIDENT TO THE RIGHTS HEREIN GIVEN, AND THE RIGHT TO ENTER UPON THE SUBDIVIDED PROPERTY FOR ALL SUCH PURPOSES. OBSTRUCTIONS SHALL NOT BE PLACED OVER GRANTEES' FACILITIES OR IN, UPON OR OVER THE PROPERTY WITHIN THE DASHED OR DOTTED LINES (OR SIMILAR DESIGNATION) MARKED "EASEMENT", "UTILITY EASEMENT", "PUBLIC UTILITY EASEMENT", "P.U.E" (OR SIMILAR DESIGNATION) WITHOUT THE PRIOR WRITTEN CONSENT OF GRANTEES. AFTER INSTALLATION OF ANY SUCH FACILITIES, THE GRADE OF THE SUBDIVIDED PROPERTY SHALL NOT BE ALTERED IN A MANNER SO AS TO INTERFERE WITH THE PROPER OPERATION AND MAINTENANCE THEREOF.

THE TERM "COMMON ELEMENTS" SHALL HAVE THE MEANING SET FORTH FOR SUCH TERM IN THE "CONDOMINIUM PROPERTY ACT", CHAPTER 765 ILCS 605/2(C), AS AMENDED FROM TIME TO TIME.

THE TERM "COMMON AREA OR AREAS" IS DEFINED AS A LOT, PARCEL OR AREA OF REAL PROPERTY, THE BENEFICIAL USE AND ENJOYMENT OF WHICH IS RESERVED IN WHOLE OR AS AN APPORTIONMENT TO THE SEPARATELY OWNED LOTS, PARCELS OR AREAS WITHIN THE PLANNED DEVELOPMENT, EVEN THOUGH SUCH BE OTHERWISE DESIGNATED ON THE PLAT BY TERMS SUCH AS "OUTLOTS", "COMMON ELEMENTS", "OPEN SPACE", "OPEN AREA", "COMMON GROUND", "PARKING" AND "COMMON AREA". THE TERM "COMMON AREA OR AREAS", AND "COMMON ELEMENTS" INCLUDE REAL PROPERTY SURFACED WITH INTERIOR DRIVEWAYS AND WALKWAYS, BUT EXCLUDES REAL PROPERTY PHYSICALLY OCCUPIED BY A BUILDING, SERVICE BUSINESS DISTRICT OR STRUCTURES SUCH AS A POOL, RETENTION POND OR MECHANICAL EQUIPMENT.

RELOCATION OF FACILITIES WILL BE DONE BY GRANTEES AT COST OF THE GRANTOR/LOT OWNER, UPON WRITTEN REQUEST.

ILLINOIS BELL TELEPHONE COMPANY, DBA AT&T ILLINOIS EASEMENT RELEASE CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

EASEMENT PER DOCUMENT R77-18349 HEREBY RELEASED AND TERMINATED APPROVED AND ACCEPTED.

THIS _____ DAY OF _____, A.D., 20_____.

ILLINOIS BELL TELEPHONE DBA AT&T ILLINOIS

BY: _____

TITLE: _____

COMMONWEALTH EDISON EASEMENT RELEASE CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

EASEMENTS PER DOCUMENT R77-18349 HEREBY RELEASED AND TERMINATED APPROVED AND ACCEPTED.

THIS _____ DAY OF _____, A.D., 20_____.

COMMONWEALTH EDISON

BY: _____

TITLE: _____

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100 Aurora, Illinois
60502-9675 PH: 630.862.2100 FAX: 630.862.2199
www.cemcon.com

DISC NO.: 904351 FILE NAME: SUBPLAT
DRAWN BY: AJB FLD. BK. / PG. NO.: D93 & NOTES
COMPLETION DATE: 09-14-21 JOB NO.: 904.351
REVISED 12-13-21\AJB REVISED EASEMENT PROVISIONS
REVISED 05-20-25\AJB PER VILLAGE COMMENTS DATED 04-23-25

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DRAWING PATH: P:\904351\SURVEY\DRAWINGS\PLATS\SUBPLAT.DWG
PLOT FILE CREATED: 5/20/2025 BY: TONY BLUS

PLAT OF SURVEY

GARDEN STATION BLOCK
VILLA PARK, IL

SURVEYOR'S NOTES

COMPARE THE DESCRIPTION ON THIS PLAT WITH YOUR DEED, ABSTRACT, OR CERTIFICATE OF TITLE; ALSO COMPARE ALL POINTS BEFORE BUILDING BY SAME, AND REPORT ANY DIFFERENCE IMMEDIATELY.

THIS SURVEY IS NOT VALID WITHOUT THE SURVEYOR'S ORIGINAL SIGNATURE AND IMPRESSED SEAL.

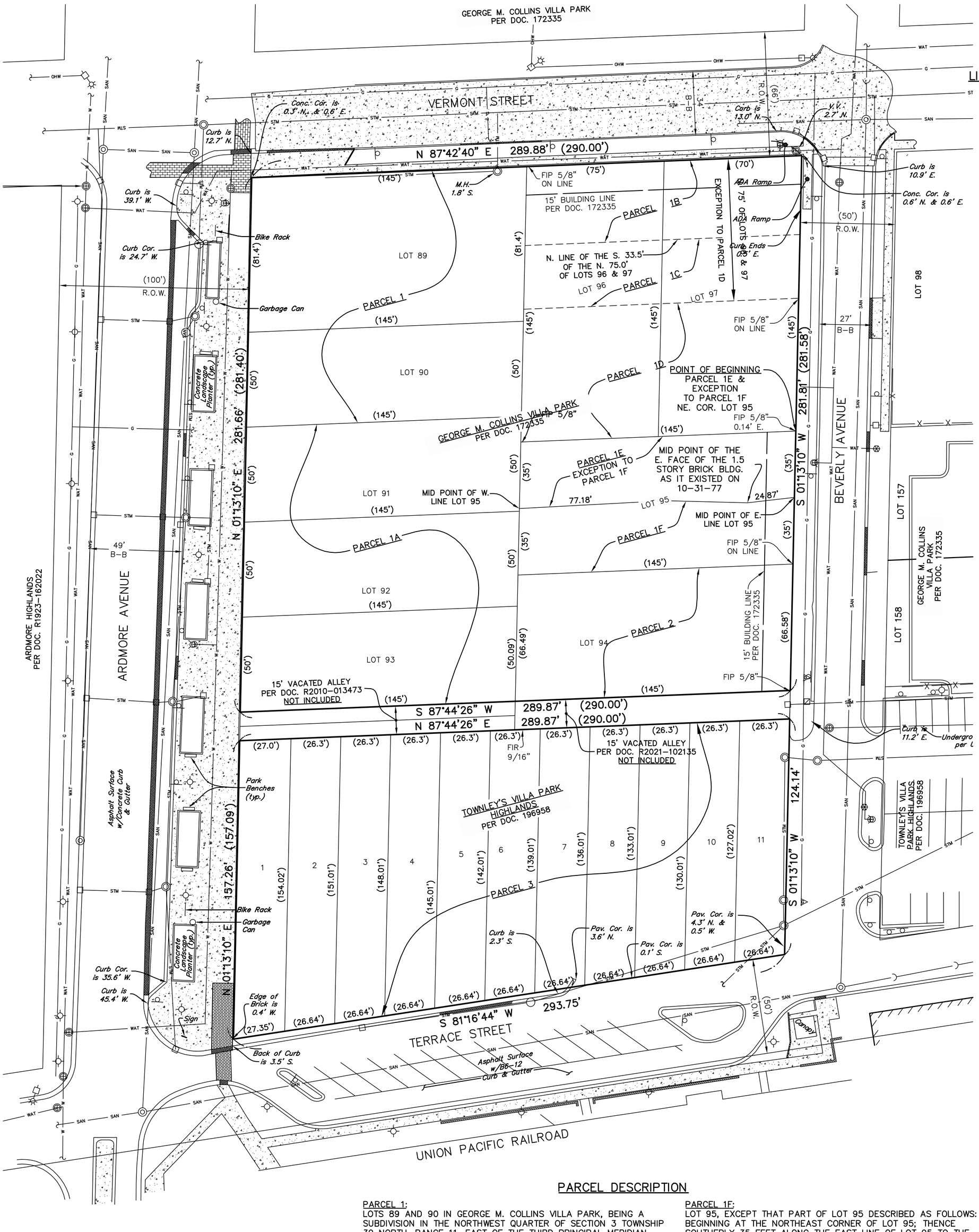
THE BEARINGS SHOWN HEREON ARE BASED UPON THE NORTH LINE OF SUBJECT PROPERTY BEING N 87°42'40" E (ASSUMED).

MEASUREMENTS ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF.

DIMENSIONS ENCLOSED IN ( ) INDICATE RECORD OR DEED DATA. ALL OTHER DIMENSIONS ARE MEASURED OR RECORD EQUALS MEASURED.

PROPERTY CONTAINS 122,227 SQ. FT. (2.806), MORE OR LESS.

FIELD WORK COMPLETED ON MARCH 12, 2020 AND UPDATED 09-15-25.



30 15 0 30

SCALE: 1 INCH = 30 FEET

LINE/SYMBOL/ABBREVIATION LEGEND

- BOUNDARY LIMITS
- ADJACENT PROPERTY OR R.O.W. LINE
- UNDERLYING PARCEL LINES
- OHW — OVERHEAD WIRES
- G — UNDERGROUND GAS LINE
- STM — UNDERGROUND STORM LINE
- SAN — UNDERGROUND SANITARY LINE
- WAT — UNDERGROUND WATER LINE
- X — FENCE
- AC — AIR CONDITIONER
- B — BOLLARD
- C — CABLE TV PEDESTAL
- STORM MANHOLE
- CATCH BASIN
- INLET
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- VALVE VAULT
- GM — GAS METER
- GV — GAS VALVE
- GAS MARKER POST
- HAND HOLE
- E,JB — ELECTRIC JUNCTION BOX
- E — ELECTRIC MANHOLE
- EM — ELECTRIC METER
- E — ELECTRIC PEDESTAL
- T — ELECTRIC TRANSFORMER
- LIGHT STANDARD
- SIGN
- P,JB — TELEPHONE JUNCTION BOX
- P — TELEPHONE MANHOLE
- P — TELEPHONE PEDESTAL
- UTILITY POLE
- GUY WIRE
- CONCRETE SURFACE
- R.O.W. — RIGHT OF WAY
- B-B — BACK-TO-BACK

PARCEL DESCRIPTION

PARCEL 1:
LOTS 89 AND 90 IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335, IN DUPAGE COUNTY ILLINOIS.

PARCEL 1A:
LOTS 91, 92 AND 93 IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335, IN DUPAGE COUNTY ILLINOIS.

PARCEL 1B:
THE NORTH 41.50 FEET OF LOT 96 AND 97 IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335, IN DUPAGE COUNTY ILLINOIS.

PARCEL 1C:
THE SOUTH 33.5 FEET OF THE NORTH 75.0 FEET OF LOTS 96 AND 97 IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION OF PART OF THE SOUTH HALF OF LOT 1 OF THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335, IN DUPAGE COUNTY ILLINOIS.

PARCEL 1D:
LOT 96 (EXCEPT THE NORTH 75 FEET THEREOF) AND LOT 97 (EXCEPT THE NORTH 75 FEET THEREOF) IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION OF PART TO THE SOUTH HALF OF LOT 1 OF THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335, IN DUPAGE COUNTY ILLINOIS.

PARCEL 1E:
THE PART OF LOT 95 DESCRIBED AS FOLLOWS: BEGINNING AND THE NORTHEAST CORNER OF LOT 95, THENCE SOUTHERLY ALONG THE EAST LINE OF LOT 95 TO THE MID-POINT OF THE EAST LINE OF LOT 95, THENCE SOUTHWESTERLY TO THE MID POINT OF THE EAST FACE OF THE 1-1/2 STORY BRICK BUILDING AT IT EXISTED ON OCTOBER 31, 1977, THENCE WESTERLY ON A STRAIGHT LINE TO THE MIDDLE POINT OF THE WEST FACE OF SAID 1-1/2 STORY BRICK BUILDING, THENCE WESTERLY ON A STRAIGHT LINE TO MID POINT OF THE WEST LINE OF LOT 95, THENCE NORTH ON THE WEST LINE OF LOT 95 TO THE NORTHWEST CORNER OF LOT 95, THENCE EAST ALONG THE NORTH LINE OF LOT 95 TO THE POINT OF BEGINNING, ALL IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335, IN DUPAGE COUNTY ILLINOIS.

PARCEL 1F:
LOT 95, EXCEPT THAT PART OF LOT 95 DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHEAST CORNER OF LOT 95; THENCE SOUTHERLY 35 FEET ALONG THE EAST LINE OF LOT 95 TO THE MID-POINT OF THE EAST LINE OF LOT 95; THENCE SOUTH 83 DEGREES 51 MINUTES 58 SECONDS WEST 24.90 FEET MORE OR LESS, TO THE MID-POINT OF THE EAST FACE OF THE 1-1/2 STORY BRICK BUILDING AS IT EXISTED ON OCTOBER 31, 1977; THENCE NORTH 88 DEGREES 33 MINUTES 32 SECONDS WEST 43 FEET MORE OR LESS, TO THE MID-POINT OF THE WEST FACE OF SAID 1-1/2 STORY BRICK BUILDING; THENCE SOUTH 86 DEGREES 46 MINUTES 10 SECONDS WEST, 76.66 MORE OR LESS, TO THE MID-POINT OF THE WEST LINE OF LOT 95; THENCE NORTHERLY 35 FEET ALONG THE WEST LINE OF LOT 95 TO THE NORTHWEST CORNER OF LOT 95; THENCE EAST ALONG THE NORTH LINE OF LOT 95 TO THE POINT OF BEGINNING, ALL IN GEORGE M. COLLINS VILLA PARK, BEING A SUBDIVISION IN THE SOUTH HALF OF LOT 1 OF THE NORTHWEST QUARTER OF SECTION 3 TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT NUMBER 172335, IN DUPAGE COUNTY ILLINOIS.

PARCEL 2:
LOT 94 IN GEORGE M. COLLINS' VILLA PARK, BEING A SUBDIVISION IN THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 7, 1923 AS DOCUMENT 172335, IN DUPAGE COUNTY, ILLINOIS.

PARCEL 3:
LOTS 1 THROUGH 11, BOTH INCLUSIVE, IN TOWNLEY'S VILLA PARK HIGHLANDS, BEING A SUBDIVISION IN THE SOUTHWEST 1/4 OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JULY 28, 1925 AS DOCUMENT NUMBER 196958, IN DUPAGE COUNTY, ILLINOIS.

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS)
SS.
COUNTY OF DUPAGE)

I, JEFFREY R. PANKOW, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT THE ABOVE DESCRIBED PROPERTY HAS BEEN SURVEYED UNDER MY DIRECTION AND THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DATED THIS 1ST DAY OF OCTOBER, A.D., 2025.

JEFFREY R. PANKOW PROFESSIONAL 3483 STATE OF ILLINOIS LAND SURVEYOR LISLE, ILLINOIS

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3483
MY REGISTRATION EXPIRES ON NOVEMBER 30, 2026
PROFESSIONAL DESIGN FIRM LICENSE NO.:184-002937,
EXPIRATION DATE IS APRIL 30, 2027

PREPARED BY:

CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100 Aurora, Illinois
60502-9675 PH: 630.862.2100 FAX: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

DISC NO.: 904351 FILE NAME: PLAT OF SURVEY 2025
DRAWN BY: AJB FLD. BK. / PG. NO.: D93 & NOTES
COMPLETION DATE: 09-30-25 JOB NO.: 904.351

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PLOT FILE CREATED: 10/1/2025 BY: TONY BLUS DRAWING PATH: P:\904351\DWG\SURVEY\DRAWINGS\PLATS\PLAT OF SURVEY_2025.DWG

LIST OF ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
ADJ	ADJUSTABLE	LP	LOW POINT
ALT	ALTERNATE	MFR	MANUFACTURER
ALUM	ALUMINUM	MO	MASONRY OPENING
AB	ANCHOR BOLTS	MAX	MAXIMUM
L	ANGLE	MEP	MECH / ELECT / PLUMB
ARCH	ARCHITECTURAL	MECH	MECHANICAL
@	AT	MTL	METAL
BD	BOARD	MIN	MINIMUM
BLDG	BUILDING	NIC	NOT IN CONTRACT
CAB	CABINET	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CL	CENTER LINE	OPNG	OPENING
CER	CERAMIC	OD	OUTSIDE DIAMETER
CT	CERAMIC TILE	OH	OPPOSITE HAND
COL	COLUMN	PLAS LAM	PLASTIC LAMINATE
CONC	CONCREATE	PLUMB	PLUMBING
CMU	CONCRETE MASONRY UNIT	PLYWD	PLYWOOD
CONST	CONSTRUCTION	PL	PLATE
CONT	CONTINUOUS	POL	POLISHED
CJ	CONTROL JOINT	RAD / R	RADIUS
DET	DETAIL	RECEPT	RECEPTACLE
DIA	DIAMETER	REINF	REINFORCING
DIM	DIMENSION	REQ'D	REQUIRED
DR	DOOR	R	RISER/RADIUS
DBL	DOUBLE	RD	ROOF DRAIN
DS	DOWNSPOUT	RM	ROOM
EA	EACH	RO	ROUGH OPENING
EW	EACH WAY	SECT	SECTION
ELEC	ELECTRIC	SHT	SHEET
EWC	ELECTRIC WATER COOLER	SIM	SIMILAR
EL	ELEVATOR	SPEC	SPECIFICATION
ELEV	ELEVATION		SQUARE
EQU	EQUAL	SS	STAINLESS STEEL
EXP	EXPANSION	STD	STANDARD
EJ	EXPANSION JOINT	STL	STEEL
EXT	EXTERIOR	STRUCT	STRUCTURAL
FIN	FINISH	SOB	TOP OF BEAM
FF	FINISH FLOOR	TOC	TOP OF CURB
FEC	FIRE EXTINGUISHER CABINET	TOJ	TOP OF JOIST
FHC	FIRE HOSE CABINET	TOS	TOP OF STEEL
FH	FIRE HYDRANT	TOP	TOP OF PLATE
FLR	FLOOR	TOW	TOP OF WALL
FD	FLOOR DRAIN	T	TREAD
GALV	GALVANIZED	TYP	TYPICAL
GA	GAUGE	UC	UNDER COUNTER / CABINET
GWB	GYPSUM WALL BOARD	UNO	UNLESS NOTED OTHERWISE
HR	HOUR	VERT	VERTICAL
HT	HEIGHT	VEST	VESTIBULE
HM	HOLLOW METAL	VWC	VERTICAL WALL COVERING
HOR / HORIZ	HORIZONTAL	WC	WATER CLOSET
ID	INTERIOR DIAMETER	WP	WATER PROOF
INSUL	INSULATION	WF	WIDE FLANGE
INT	INTERIOR	W/	WITH / WITHOUT
LAM	LAMINATE/LAMINATED	WD	WOOD
LAV	LAVATORY	WWF	WELDED WIRE FABRIC
LLH	LONG LEG HORIZONTAL		

LIST OF DRAWINGS

SHEET NUMBER	TITLE
	COVER
LS1.1	DEVELOPMENT SUMMARY
LS1.2	FIRST FLOOR LIFE SAFETY PLAN
LS1.3	SECOND FLOOR LIFE SAFETY PLAN
LS1.4	THIRD FLOOR LIFE SAFETY PLAN
LS1.5	FOURTH FLOOR LIFE SAFETY PLAN
LS1.6	FIFTH FLOOR LIFE SAFETY PLAN
LS1.7	SIXTH FLOOR LIFE SAFETY PLAN
LS1.8	SEVENTH FLOOR LIFE SAFETY PLAN
LS1.9	LIFE SAFETY DETAILS
LS1.10	LIFE SAFETY DETAILS
LS1.11	LIFE SAFETY DETAILS
LS1.12	LIFE SAFETY DETAILS
ADA.1	ADA DETAILS
ADA.2	ADA DETAILS
ADA.3	ADA DETAILS
S0.1	GENERAL NOTES
S1.1A	FOUNDATION PLAN PART A
S1.1B	FOUNDATION PLAN PART B
S1.1C	FOUNDATION PLAN PART C
S1.1D	FOUNDATION PLAN PART D
S1.2A	SECOND FLOOR FRAMING PLAN PART A
S1.2B	SECOND FLOOR FRAMING PLAN PART B
S1.2C	SECOND FLOOR FRAMING PLAN PART C
S1.2D	SECOND FLOOR FRAMING PLAN PART D
S1.3A	THIRD FLOOR FRAMING PLAN PART A
S1.3B	THIRD FLOOR FRAMING PLAN PART B
S1.3C	THIRD FLOOR FRAMING PLAN PART C
S1.3D	THIRD FLOOR FRAMING PLAN PART D
S1.4A	TYPICAL FLOOR FRAMING PLAN PART A
S1.4B	TYPICAL FLOOR FRAMING PLAN PART B
S1.4C	TYPICAL FLOOR FRAMING PLAN PART C
S1.4D	TYPICAL FLOOR FRAMING PLAN PART D
S1.5A	ROOF FRAMING PLAN PART A
S1.5B	ROOF FRAMING PLAN PART B
S1.5C	ROOF FRAMING PLAN PART C
S1.5D	ROOF FRAMING PLAN PART D
S1.6	THIRD FLOOR LOADING PLAN
S2.1	FOUNDATION DETAILS
S2.2	FOUNDATION DETAILS
S2.3	FOUNDATION SCHEDULE
S2.4	PRECAST DETAILS
S2.5	WOOD DETAILS
A1.1	FIRST FLOOR PLAN
A1.2	SECOND FLOOR PLAN
A1.3	THIRD FLOOR PLAN
A1.4	FOURTH FLOOR PLAN
A1.5	FIFTH FLOOR PLAN
A1.6	SIXTH FLOOR PLAN
A1.7	SEVENTH FLOOR PLAN
A1.8	FIRST FLOOR REFLECTED CEILING PLAN
A1.9	SECOND FLOOR REFLECTED CEILING PLAN
A1.10	THIRD FLOOR REFLECTED CEILING PLAN
A1.11	FOURTH FLOOR REFLECTED CEILING PLAN
A1.12	FIFTH FLOOR REFLECTED CEILING PLAN
A1.13	SIXTH FLOOR REFLECTED CEILING PLAN
A1.14	SEVENTH FLOOR REFLECTED CEILING PLAN
A1.15	ROOF PLAN
A1.16	UNIT PLANS
A1.17	UNIT PLANS
A1.18	UNIT PLANS
A1.19	UNIT PLANS
A1.20	UNIT PLANS
A1.21	UNIT PLANS
A1.22	UNIT PLANS
A1.23	LARGE SCALE FLOOR PLANS
A1.24	LARGE SCALE FLOOR PLANS
A1.25	LARGE SCALE FLOOR PLANS
A1.26	LARGE SCALE STAIR PLANS
A1.27	LARGE SCALE STAIR PLANS
A2.1	EXTERIOR ELEVATIONS
A2.1A	COLORED ELEVATIONS
A2.2	EXTERIOR ELEVATIONS
A2.2A	COLORED ELEVATIONS
A2.3	EXTERIOR ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A3.3	BUILDING SECTIONS
A3.4	BUILDING SECTIONS
A3.5	ELEVATOR SECTION
A3.6	STAIR SECTIONS
A3.7	STAIR SECTIONS
A3.8	WALL SECTIONS
A3.9	WALL SECTIONS
A3.10	WALL SECTIONS
A3.11	FIRE WALL SECTIONS
A4.1	UNIT CASEWORK & INTERIOR ELEVATIONS
A4.2	UNIT CASEWORK & INTERIOR ELEVATIONS
A4.3	UNIT CASEWORK & INTERIOR ELEVATIONS
A4.4	UNIT CASEWORK & INTERIOR ELEVATIONS
A4.5	UNIT CASEWORK & INTERIOR ELEVATIONS
A4.6	UNIT CASEWORK & INTERIOR ELEVATIONS
A4.7	UNIT CASEWORK & INTERIOR ELEVATIONS
A4.8	UNIT CASEWORK & INTERIOR ELEVATIONS
A4.9	INTERIOR ELEVATIONS
A4.10	DETAILS
A4.11	DETAILS
A5.1	DOOR SCHEDULE
A5.2	FINISH SCHEDULE
A5.3	DOOR & JAMB TYPES
A5.4	WINDOW TYPES
M0.0	HVAC LEGEND & NOTES
M1.0	FIRST FLOOR HVAC DIAGRAM
M1.2	SECOND FLOOR HVAC DIAGRAM
M1.3	THIRD FLOOR HVAC DIAGRAM
M1.6	FOURTH THRU SIXTH FLOOR HVAC DIAGRAM
M1.7	SEVENTH FLOOR HVAC DIAGRAM
M1.8	ROOF HVAC DIAGRAM
M3.0	LARGE SCALE HVAC DIAGRAM
M3.1	LARGE SCALE HVAC DIAGRAM
M3.2	LARGE SCALE HVAC DIAGRAM
M3.3	LARGE SCALE HVAC DIAGRAM
M4.0	HVAC RISER DIAGRAM - AIR/SIDE
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M4.2	HVAC RISER DIAGRAM - VRF PIPING
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M5.0	HVAC SCHEDULES
M5.1	HVAC SCHEDULES
M6.0	HVAC DETAILS
M6.1	HVAC DETAILS
M6.2	HVAC DETAILS
MT.0	BUILDING AUTOMATION SYSTEM NOTES
MT.1	BUILDING AUTOMATION SYSTEM REFRIGERANT DETAILS
MT.2	BUILDING AUTOMATION SYSTEM EXHAUST FANS DETAILS
MT.3	BUILDING AUTOMATION SYSTEM INSTALLATION DETAILS
P0.0	PLUMBING SYMBOLS, NOTES & ABBREVIATIONS
P1.0	UNDERGROUND PLUMBING DIAGRAM
P1.1	FIRST FLOOR PLUMBING DIAGRAM
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P1.3	THIRD FLOOR PLUMBING DIAGRAM
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P1.7	SEVENTH FLOOR PLUMBING DIAGRAM
P1.8	ROOF PLUMBING DIAGRAM
P3.0	LARGE SCALE PLUMBING DIAGRAM
P3.1	LARGE SCALE PLUMBING DIAGRAM
P3.2	LARGE SCALE PLUMBING DIAGRAM
P3.3	LARGE SCALE PLUMBING DIAGRAM
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P4.1	PLUMBING RISER DIAGRAM - SUPPLY
P4.2	PLUMBING RISER DIAGRAM - WASTE
P4.3	PLUMBING RISER DIAGRAM - WASTE
P4.4	PLUMBING RISER DIAGRAM - WASTE
P4.5	PLUMBING RISER DIAGRAM - WASTE
P4.6	PLUMBING RISER DIAGRAM - WASTE
P4.7	PLUMBING RISER DIAGRAM - WASTE
P4.8	PLUMBING RISER DIAGRAM - WASTE
P5.0	PLUMBING SCHEDULES
P6.0	PLUMBING DETAILS
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E0.0	ELECTRICAL LEGEND & NOTES
E0.1	ELECTRICAL SITE PLAN
E1.1	FIRST FLOOR ELECTRICAL POWER DIAGRAM
E1.2	SECOND FLOOR ELECTRICAL POWER DIAGRAM
E1.3	THIRD FLOOR ELECTRICAL POWER DIAGRAM
E1.4	FOURTH THRU SEVENTH FLOOR ELECTRICAL POWER DIAGRAM
E1.8	ROOF ELECTRICAL POWER DIAGRAM
E2.0	FIRST FLOOR LIGHTING DIAGRAM
E2.2	SECOND FLOOR LIGHTING DIAGRAM
E2.3	THIRD FLOOR LIGHTING DIAGRAM
E2.4	FOURTH THRU SEVENTH FLOOR LIGHTING DIAGRAM
E3.0	LARGE SCALE ELECTRICAL DIAGRAM
E3.1	LARGE SCALE ELECTRICAL DIAGRAM
E3.2	LARGE SCALE ELECTRICAL DIAGRAM
E3.3	LARGE SCALE ELECTRICAL DIAGRAM
E3.4	LARGE SCALE ELECTRICAL DIAGRAM
E3.5	LARGE SCALE ELECTRICAL DIAGRAM
E4.0	ELECTRICAL RISER DIAGRAM
E4.1	ELECTRICAL EMERGENCY RISER DIAGRAM
E4.2	ELECTRICAL FEEDER SCHEDULE
E4.3	GROUNDING RISER DIAGRAM
E4.4	FIRE ALARM RISER DIAGRAM
E5.0	ELECTRICAL SCHEDULES POWERED EQUIP
E5.1	ELECTRICAL SCHEDULES POWERED EQUIP
E5.2	ELECTRICAL SCHEDULES POWERED EQUIP
E5.3	ELECTRICAL PANEL SCHEDULES
E5.4	ELECTRICAL PANEL SCHEDULES
E5.5	ELECTRICAL PANEL SCHEDULES
E5.6	ELECTRICAL PANEL SCHEDULES
E5.7	ELECTRICAL PANEL SCHEDULES
E5.8	ELECTRICAL PANEL SCHEDULES
E5.9	ELECTRICAL PANEL SCHEDULES
E5.10	ELECTRICAL PANEL SCHEDULES
E6.0	ELECTRICAL DETAILS
E6.1	ELECTRICAL DETAILS
E6.2	ELECTRICAL DETAILS
E6.3	ELECTRICAL DETAILS
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E7.1	PHOTOMETRIC PLAN
E7.2	PHOTOMETRIC DETAILS
FP0.0	FIRE PROTECTION LEGEND & NOTES
FP1.0	FIRST FLOOR FIRE PROTECTION DIAGRAM
FP1.2	SECOND FLOOR FIRE PROTECTION DIAGRAM
FP1.3	THIRD FLOOR FIRE PROTECTION DIAGRAM
FP1.4	FOURTH FLOOR FLOOR FIRE PROTECTION DIAGRAM
FP1.5	FIFTH THRU SEVENTH FIRE PROTECTION DIAGRAM
FP4.0	FIRE PROTECTION RISER DIAGRAM
FP6.0	FIRE PROTECTION DETAILS

RESIDENTIAL UNIT MIX

UNIT TYPE	ADA TYPE	GROSS AREA	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	TOTAL
A - ONE BEDROOM	TYPE B	632 SF	15	15	15	15	15	75
B - ONE BEDROOM	TYPE B	743 SF	19	19	19	19	19	95
C - ONE BEDROOM	TYPE B	828 SF	4	4	4	4	4	20
D - ONE BEDROOM	TYPE B	813 SF	1	1	1	1	1	5
E - ONE BEDROOM W/ DEN	TYPE B	911 SF	0	0	1	1	1	3
E-ADA - ONE BEDROOM W/ DEN	TYPE A	911 SF	1	1	0	0	0	2
F - ONE BEDROOM	TYPE B	821 SF	0	0	1	1	1	3
F-ADA - ONE BEDROOM	TYPE A	821 SF	0	1	0	0	0	1
G - TWO BEDROOM	TYPE B	1066 SF	7	7	7	7	7	35
H - TWO BEDROOM	TYPE B	1101 SF	0	0	1	1	1	3
H-ADA - TWO BEDROOM	TYPE A	1101 SF	1	1	0	0	0	2
J - ONE BEDROOM	TYPE B	965 SF	0	1	1	1	1	4
K - ONE BEDROOM	ADAPTABLE	743 SF	10	11	11	11	11	54
L - TWO BEDROOM	ADAPTABLE	1066 SF	5	5	5	5	5	25
M - STUDIO	TYPE B	632 SF	1	1	2	2	2	8
M-ADA - STUDIO	TYPE A	632 SF	1	1	0	0	0	2
N - ONE BEDROOM	TYPE B	788 SF	2	2	2	2	2	10
O - ONE BEDROOM	TYPE B	821 SF	1	0	0	0	0	1
TOTAL			68	70	70	70	70	348

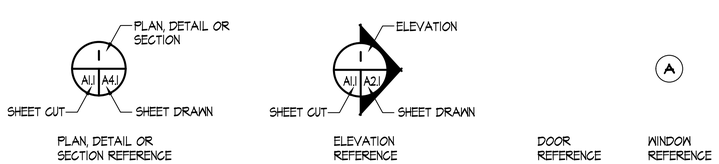
NOTES
1. ADA TYPE "A" UNITS
   REQUIRED = 2% X 348 UNITS = 7 UNITS
   PROVIDED = 7 UNITS (UNITS 310, 379, 386, 410, 425, 476 &483)
2. ADA TYPE "B" UNITS
   REQUIRED = ALL UNITS
   PROVIDED = ALL UNITS
3. ADA ADAPTABLE UNITS
   REQUIRED = 20% X 348 UNITS = 70 UNITS
   PROVIDED = UNIT TYPE K & L = 79 UNITS
4. ALL UNITS SHALL MEET REQUIREMENTS OF THE IAC AND ICC A117.1.

SHEET DESIGNATIONS

DISCIPLINE
- A - ARCHITECTURAL
- M - MECHANICAL
- P - PLUMBING
- E - ELECTRICAL
- S - STRUCTURAL
- C - CIVIL
- L - LANDSCAPING
- LS - LIFE SAFETY

A1.1
- SHEET NUMBER IN SEQUENCE
- DRAWING TYPE
  - 1 - PLANS
  - 2 - ELEVATION
  - 3 - SECTIONS
  - 4 - DETAILS
  - 5 - SCHEDULES

SYMBOLS



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001-025003
STATE OF ILLINOIS
31 OCT 2025

DATE
23 APR 2021

COMMISSION NUMBER
2793

REVISION DATE
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

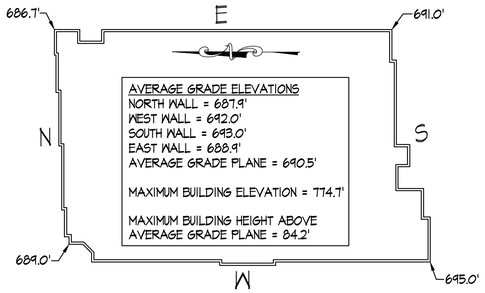
JONES & JONES ASSOCIATES ARCHITECTS PC

db|HMS
DG STRUCTURAL ENGINEERING LLC

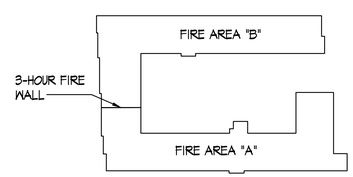
6120 PETERS CREEK ROAD · ROANOKE, VIRGINIA, 24019
TELEPHONE (540)366-3335 · FACSIMILE (540)366-3613

DEVELOPMENT SUMMARY

- FACILITY USE: RESIDENTIAL, MERCANTILE, RESTAURANT AND PARKING
- APPLICABLE CODES
  - INTERNATIONAL BUILDING CODE - 2021 EDITION
  - INTERNATIONAL MECHANICAL CODE - 2021 EDITION (6)
  - INTERNATIONAL FUEL GAS CODE - 2021 EDITION (5)
  - ILLINOIS PLUMBING CODE - CURRENT EDITION (6)
  - NATIONAL ELECTRIC CODE - 2020 EDITION (5)
  - INTERNATIONAL FIRE CODE - 2021 EDITION
  - ILLINOIS ACCESSIBILITY - 2018 EDITION
  - INTERNATIONAL ENERGY CONSERVATION CODE - 2021 EDITION (5)
  - INTERNATIONAL SWIMMING POOL AND SPA CODE - 2021 EDITION
  - PHIUS - PASSIVE BUILDING DESIGN GUIDE - MULTIFAMILY CONSTRUCTION (1)
  - PHIUS 2021 PASSIVE BUILDING STANDARDS
- USE GROUP:
  - S-2 PARKING GARAGE
  - M MERCANTILE
  - A-2 ASSEMBLY - RESTAURANT
  - A-3 ASSEMBLY
  - R-2 RESIDENTIAL - APARTMENT
- CONSTRUCTION TYPE (PER IBC 602 & 510.2)
  - FLOORS 1 & 2 (USE GROUP S-2, M, A-2 & A-3) IA
  - FLOORS 3 - 7 (USE GROUP R-2) IIIA
- FIRE PROTECTION SYSTEMS REQUIRED
  - TOTAL COVERAGE FIRE SPRINKLER SYSTEM (NFPA 13)
    - HABITABLE AND SUPPORT AREAS - WET SYSTEM
    - ATTIC AND CANOPY AREAS - DRY SYSTEM
    - ALL CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED
  - TYPE V (III) (NFPA 220)
  - FIRE ALARM SYSTEM (NFPA 72)
  - (3) PROVIDE KNOX BOX AT FIRE SPRINKLER ROOM EXTERIOR DOOR AND AT MAIN ENTRY DOOR
- BUILDING HEIGHT ABOVE GRADE PLANE (PER IBC TABLE 504.3)
  - USE GROUP S-2, M, A-2 & A-3 (IA)
    - ALLOWABLE UL
    - ACTUAL MAXIMUM 34'
  - USE GROUP R-2 (IIIA)
    - ALLOWABLE 85'
    - ACTUAL MAXIMUM 84.2'



- NUMBER OF STORIES ABOVE GRADE PLANE (PER IBC TABLE 504.4)
  - USE GROUP S-2, M, A-2 & A-3 (IA)
    - ALLOWABLE UL
    - ACTUAL MAXIMUM 2
  - USE GROUP R-2 (IIIA) (ABOVE HORIZONTAL SEPARATION PER IBC 510.2)
    - ALLOWABLE 5
    - ACTUAL MAXIMUM 5
- BUILDING AREA (PER IBC 506.2)
  - USE GROUP S-2, M, A-2 & A-3 (IA)
    - ALLOWABLE UL
    - ACTUAL
      - FLOOR 1 114,104 SQ. FT.
      - FLOOR 2 114,229 SQ. FT.
  - USE GROUP R-2 (IIIA)
    - ALLOWABLE AREA (A_a) (PER IBC 506.2.3 EQUATION 5-2)
      - TABULAR ALLOWABLE AREA (A_t) (PER IBC TABLE 506.2) 72,000 SQ. FT.
      - TOTAL ALLOWABLE AREA
        - $A_a = [\ A_t + (NS \times I_f)\ ] \times S_a$
        - $A_a = [\ 72,000 + (24,000 \times 0\%)\ ] \times 3 =$ 216,000 SQ. FT.
    - ACTUAL AREA
      - FIRE AREA "A"
        - FLOOR 3 37,174 SQ. FT.
        - FLOORS 4-7 (PER FLOOR) 36,576 SQ. FT.
        - TOTAL ACTUAL AREA 183,478 SQ. FT.
      - FIRE AREA "B"
        - FLOORS 3-7 (PER FLOOR) 34,448 SQ. FT.
        - TOTAL ACTUAL AREA 172,240 SQ. FT.



(3) GENERAL ENERGY NOTES
1. AIR INFILTRATION SHALL BE VERIFIED BY WHOLE BUILDING PRESSURIZATION TESTING CONDUCTED IN ACCORDANCE WITH ASTM E779 OR ASTM E1827 BY AN INDEPENDENT THIRD PARTY. THE MEASURED AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.25 CFM/FT^2 (2.0 L/S x M^2) UNDER A PRESSURE DIFFERENTIAL OF 0.3 IN. WATER (75 PA), WITH THE CALCULATED SURFACE AREA BEING THE SUM OF THE ABOVE AND BELOW GRADE BUILDING ENVELOPE. A REPORT THAT INCLUDES THE TESTED SURFACE AREA, FLOOR AREA, AIR BY VOLUME, STORIES ABOVE GRADE, AND LEAKAGE RATES SHALL BE SUBMITTED TO THE CODE OFFICIAL AND THE BUILDING OWNER.
2. COMMISSIONING PLANS, PRELIMINARY AND FINAL COMMISSIONING REPORTS SHOWING COMPLIANCE WITH ASHRAE 90.1-2016 TO BE PROVIDED DURING THE CONSTRUCTION PHASE.

- OCCUPANT LOAD (PER IBC TABLE 1004.1.2)

FLOOR 1		
ASSEMBLY	11,875 SQ FT / 15 NET	= 792 PEOPLE
MERCANTILE	2,831 SQ FT / 60 GROSS	= 48 PEOPLE
PARKING GARAGE	94,840 SQ FT / 200 GROSS	= 475 PEOPLE
EXERCISE	2,834 SQ FT / 50 GROSS	= 57 PEOPLE
BUSINESS	452 SQ FT / 100 GROSS	= 5 PEOPLE
STORAGE	1,893 SQ FT / 300 GROSS	= 7 PEOPLE
TOTAL		1,384 PEOPLE
FLOOR 2		
ASSEMBLY	1,044 SQ FT / 15 NET	= 70 PEOPLE
STORAGE	6,818 SQ FT / 300 GROSS	= 23 PEOPLE
PARKING GARAGE	106,367 SQ FT / 200 GROSS	= 532 PEOPLE
TOTAL		625 PEOPLE
FLOOR 3		
ASSEMBLY	2,356 SQ FT / 15 NET	= 158 PEOPLE
RESIDENTIAL	69,265 SQ FT / 200 GROSS	= 347 PEOPLE
TOTAL		505 PEOPLE
FLOORS 4-7		
RESIDENTIAL (PER FLOOR)	71,023 SQ FT / 200 GROSS	= 356 PEOPLE
TOTAL (FLOORS 4-7)		1,424 PEOPLE
TOTAL BUILDING		3,938 PEOPLE

- NUMBER OF EXITS (PER IBC 1006.2.1)

FLOOR 1	
REQUIRED	4 DOORS - 1,384 PEOPLE
ACTUAL	12 DOORS - 2,964 PEOPLE
FLOOR 2	
REQUIRED	3 DOORS - 625 PEOPLE
ACTUAL	5 DOORS - 1,135 PEOPLE
FLOORS 3	
REQUIRED	3 DOORS - 505 PEOPLE
ACTUAL	4 DOORS - 908 PEOPLE
FLOORS 4-7	
REQUIRED	2 DOORS - 356 PEOPLE
ACTUAL	4 DOORS - 908 PEOPLE

- EXIT ACCESS TRAVEL DISTANCE (PER IBC TABLE 1017.2)

S-2 - PARKING GARAGE	
ALLOWABLE	400'
ACTUAL MAXIMUM	277'
M - RETAIL	
ALLOWABLE	250'
ACTUAL MAXIMUM	57'
A-2 - RESTAURANT	
ALLOWABLE	250'
ACTUAL MAXIMUM	66'
A-3	
ALLOWABLE	250'
ACTUAL MAXIMUM	56'
R-2 - RESIDENTIAL	
ALLOWABLE	250'
ACTUAL MAXIMUM	248'

- FIRE RESISTANCE RATINGS (PER IBC TABLES 601 & 1020.1)

FLOORS 1 & 2 (CONSTRUCTION TYPE IA)

	REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME	3 HOUR	3 HOUR
EXTERIOR BEARING WALLS	3 HOUR	3 HOUR - IBC TABLE 721.1(2) ITEM 3 & 4
INTERIOR BEARING WALLS	3 HOUR	3 HOUR - IBC TABLE 721.1(2) ITEM 3 & 4
NON BEARING INTERIOR WALLS	0 HOUR	0 HOUR
FLOOR CONSTRUCTION	2 HOUR	2 HOUR - IBC TABLE 721.1(3) ITEM 4
ROOF CONSTRUCTION	1 1/2 HOUR	1 1/2 HOUR - IBC TABLE 721.1(3) ITEM 4
SHAFT CONSTRUCTION	2 HOUR	2 HOUR - UL U415 G & IBC TABLE 721.1(2) ITEM 3
CORRIDOR WALLS	0 HOUR	0 HOUR

FLOORS 3-7 (CONSTRUCTION TYPE IIIA)

	REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME	1 HOUR	1 HOUR
EXTERIOR BEARING WALLS	2 HOUR	2 HOUR - UL W408
INTERIOR BEARING WALLS	1 HOUR	1 HOUR - UL U305
NON BEARING INTERIOR WALLS	0 HOUR	0 HOUR
FLOOR CONSTRUCTION	1 HOUR	1 HOUR - UL L521
ROOF CONSTRUCTION	1 HOUR	1 HOUR - UL P522
SHAFT CONSTRUCTION	2 HOUR	2 HOUR - UL U415 G & IBC TABLE 721.1(2) ITEM 3
CORRIDOR WALLS	1/2 HOUR	1 HOUR - UL U305
DWELLING UNIT SEPARATION	1 HOUR	1 HOUR - UL U341
(3) FIRE WALL	3 HOUR	3 HOUR - UL U415 G

ALL FIRE RESISTANT ASSEMBLIES IN CONCEALED SPACES SHALL BE LABELED TO INDICATE THEIR RATING WITH LETTERS 2" IN HEIGHT

- DRAFT STOPPING
  - NOT REQUIRED - BUILDING FULLY SPRINKLED
- PROVIDE KNOX BOX AT FIRE SPRINKLER ROOM EXTERIOR DOOR AND AT MAIN ENTRY DOOR

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELEMENTS OF PERFORMANCE BASED SPECIFICATIONS. THE FIRE ALARM, FIRE SUPPRESSION SYSTEM, AND ALL OTHER BUILDING ELEMENTS REFERENCED IN THE DEVELOPMENT SUMMARY ARE TO BE INSTALLED IN CONFORMANCE WITH THE REFERENCED STANDARDS. ALL SYSTEMS SHALL BE COMPLETELY OPERATIONAL WITH ALL REQUIRED ELEMENTS. THE CONTRACTOR SHALL SUBMIT PLANS FOR ALL LIFE SAFETY SYSTEMS TO THE ARCHITECT, THE BUILDING OFFICIAL AND THE STATE FIRE MARSHAL FOR APPROVAL PRIOR TO ANY FABRICATION OR INSTALLATION.

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7 - 31 OCT 2025

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001-025003
STATE OF ILLINOIS
31 OCT 2025

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2148
DATE
18 JUN 2021

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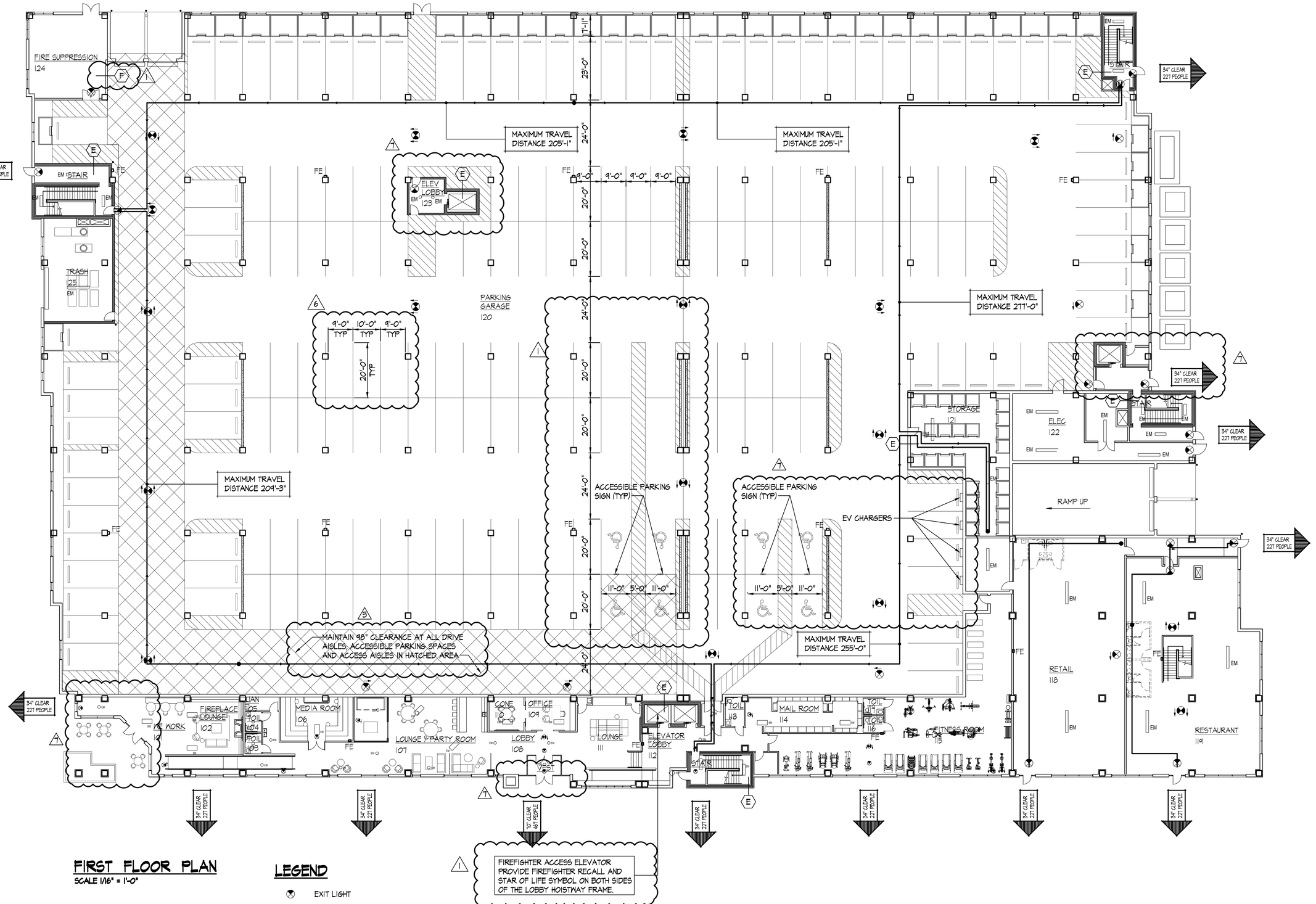
LS1.1



FIRST FLOOR PLAN

SCALE 1/16" = 1'-0"

PROJECT NORTH

LEGEND

- EXIT LIGHT
- EM — EMERGENCY LIGHT
- FE — FIRE EXTINGUISHER

1 FIREFIGHTER ACCESS ELEVATOR
PROVIDE FIREFIGHTER RECALL AND STAR OF LIFE SYMBOL ON BOTH SIDES OF THE LOBBY HOISTWAY FRAME.

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VILLA PARK, ILLINOIS

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JMB
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LS1.2

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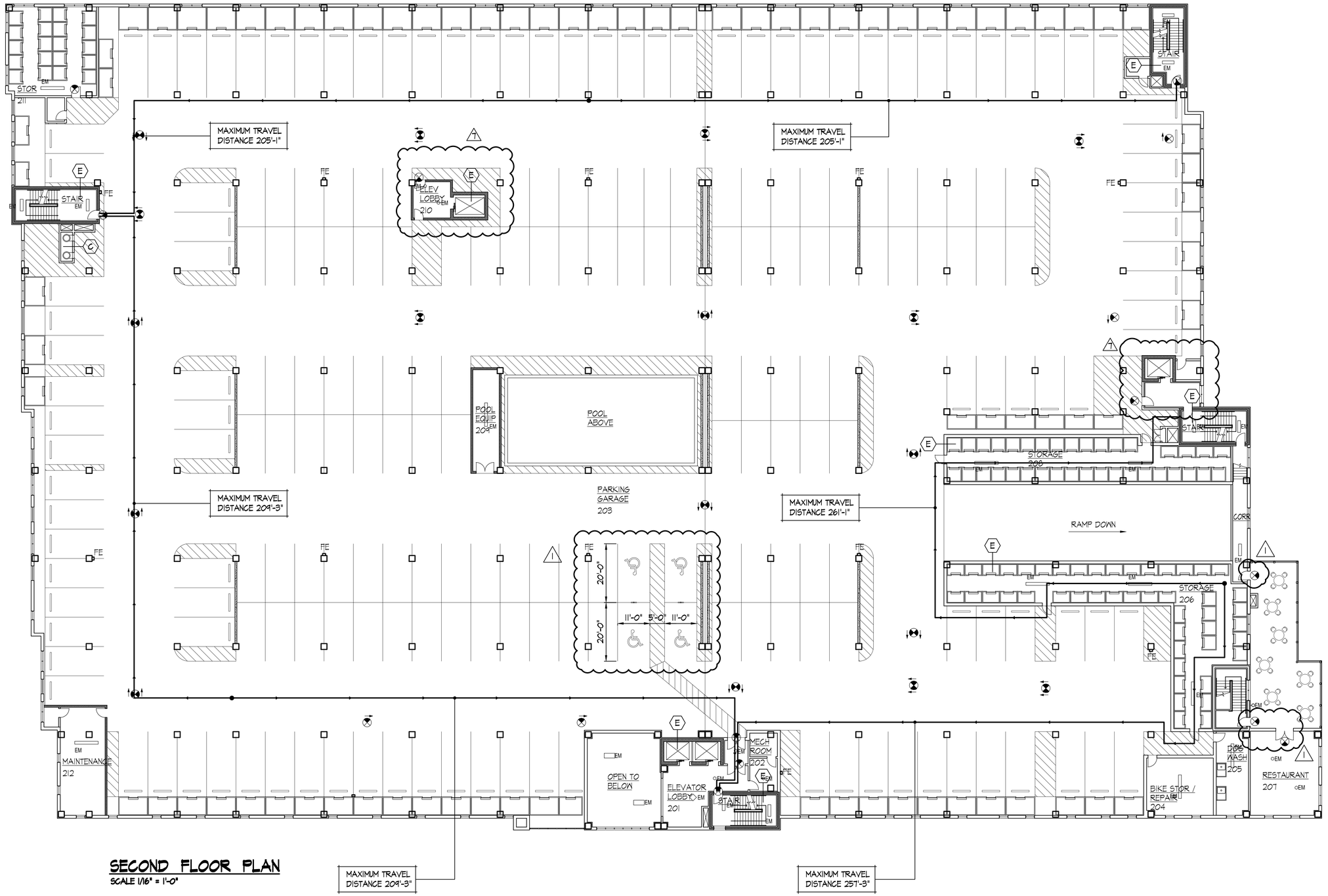

SECOND FLOOR PLAN

SCALE 1/16" = 1'-0"

LEGEND

EXIT LIGHT

EM EMERGENCY LIGHT

FE FIRE EXTINGUISHER

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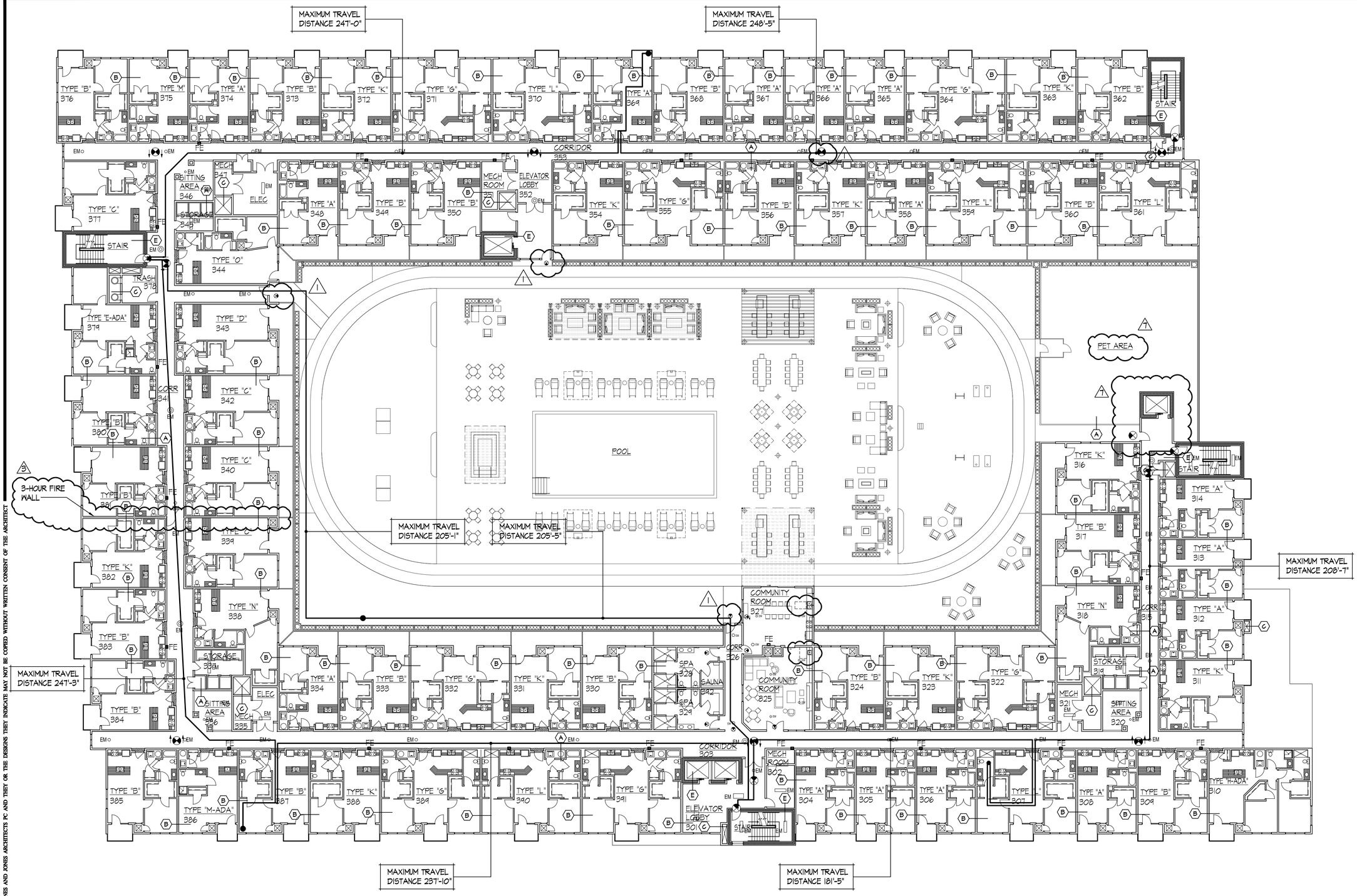

THIRD FLOOR PLAN

SCALE 1/16" = 1'-0"

LEGEND

- EXIT LIGHT
- EM — EMERGENCY LIGHT
- FE — FIRE EXTINGUISHER

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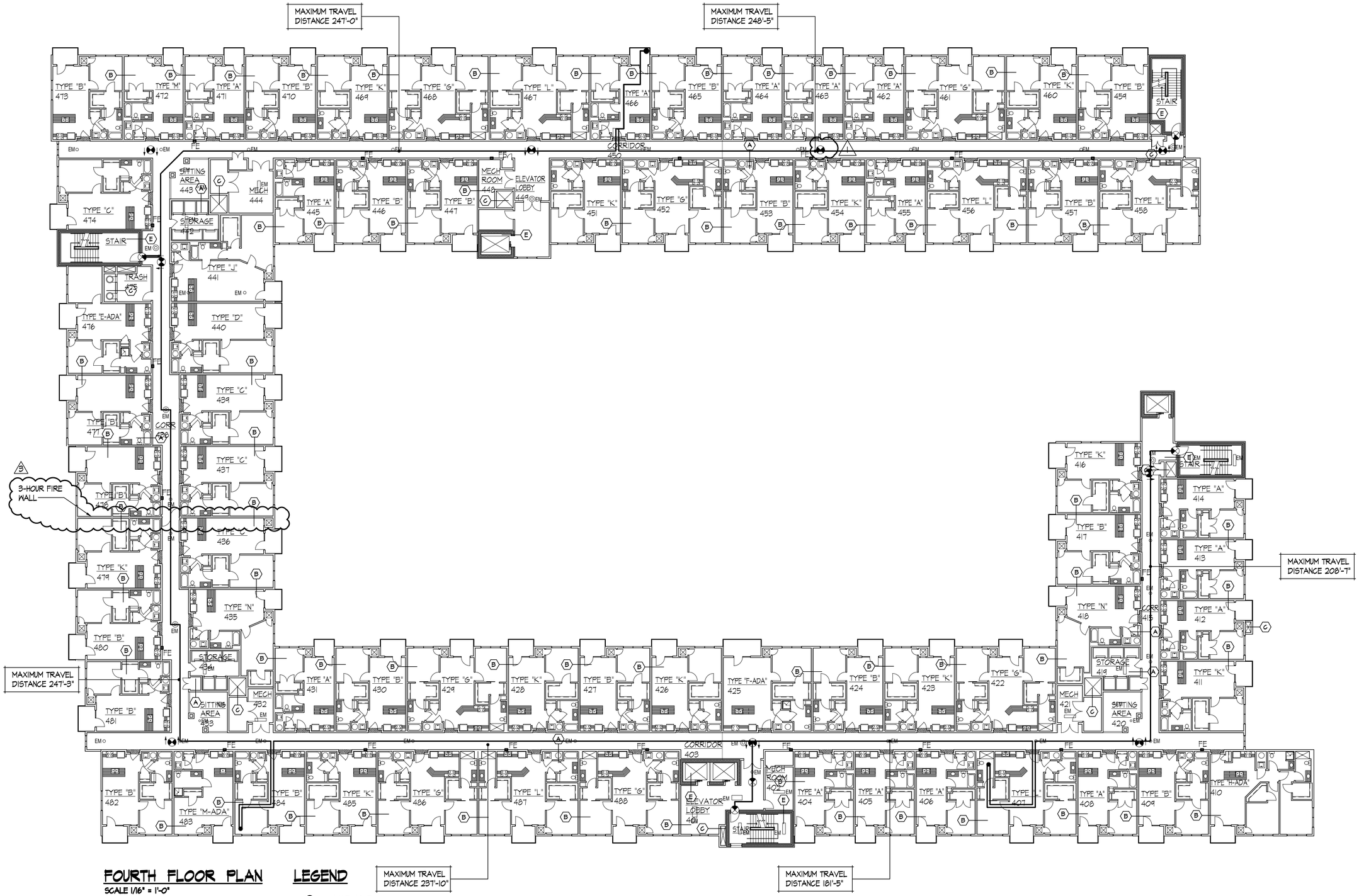

FOURTH FLOOR PLAN

SCALE 1/16" = 1'-0"

LEGEND

EXIT LIGHT

EMERGENCY LIGHT

FE FIRE EXTINGUISHER

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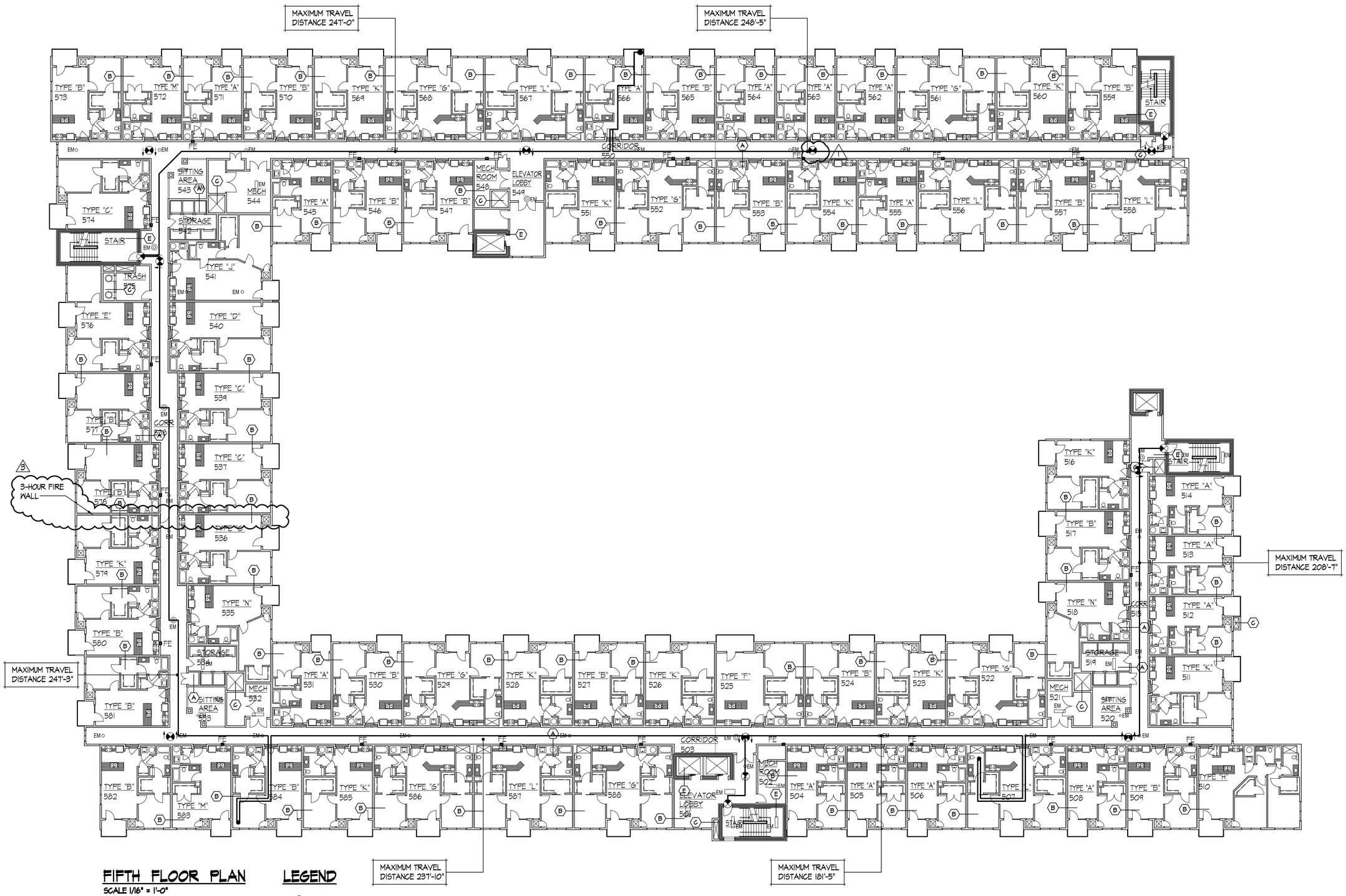
LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2198
DATE
18 JUN 2021

LS1.5

JONES & JONES ASSOCIATES / ARCHITECTS PC



FIFTH FLOOR PLAN

SCALE 1/16" = 1'-0"

LEGEND

EXIT LIGHT

EM EMERGENCY LIGHT

FE FIRE EXTINGUISHER

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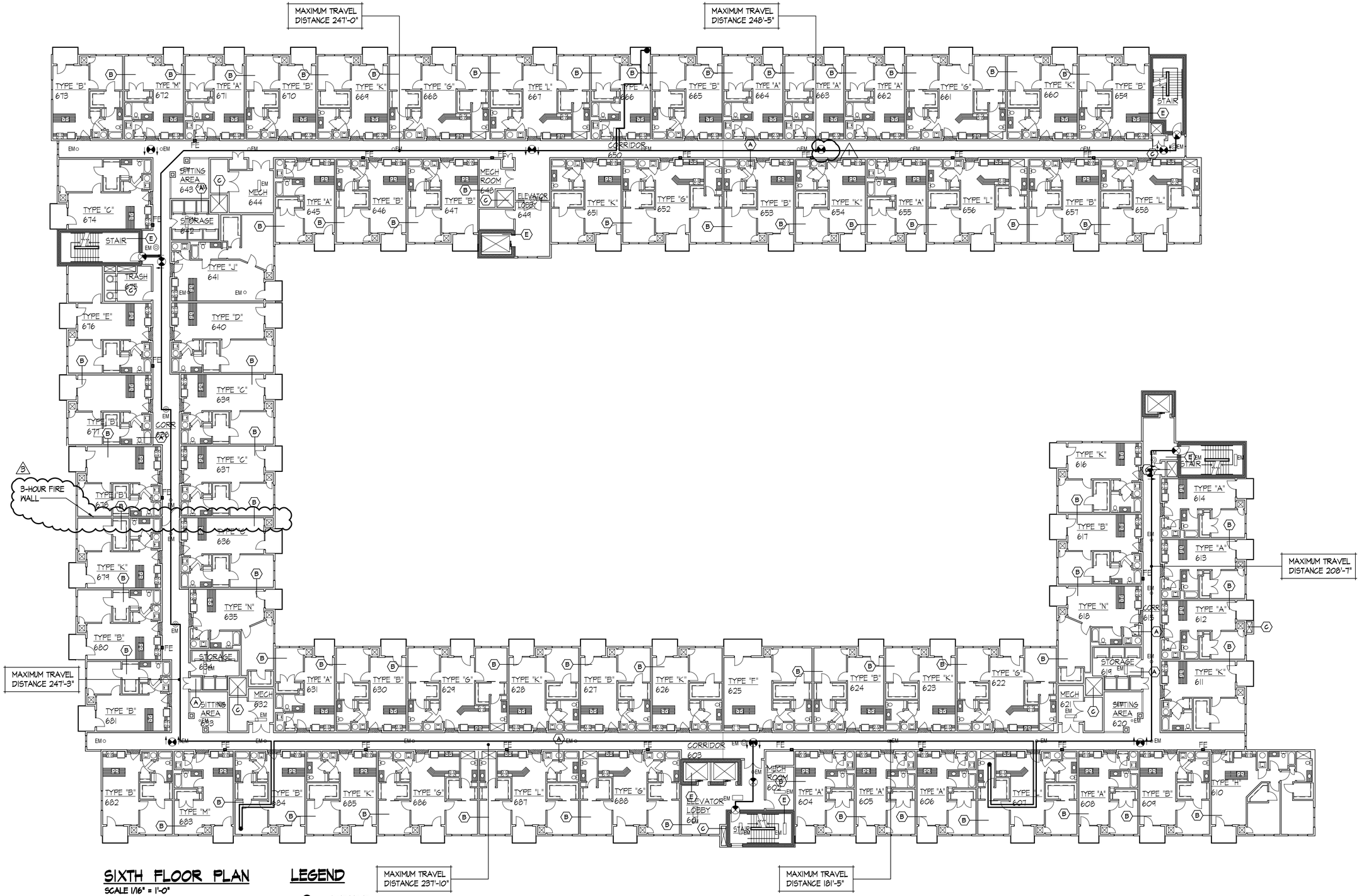

SIXTH FLOOR PLAN

SCALE 1/16" = 1'-0"

LEGEND

EXIT LIGHT

EM EMERGENCY LIGHT

FE FIRE EXTINGUISHER

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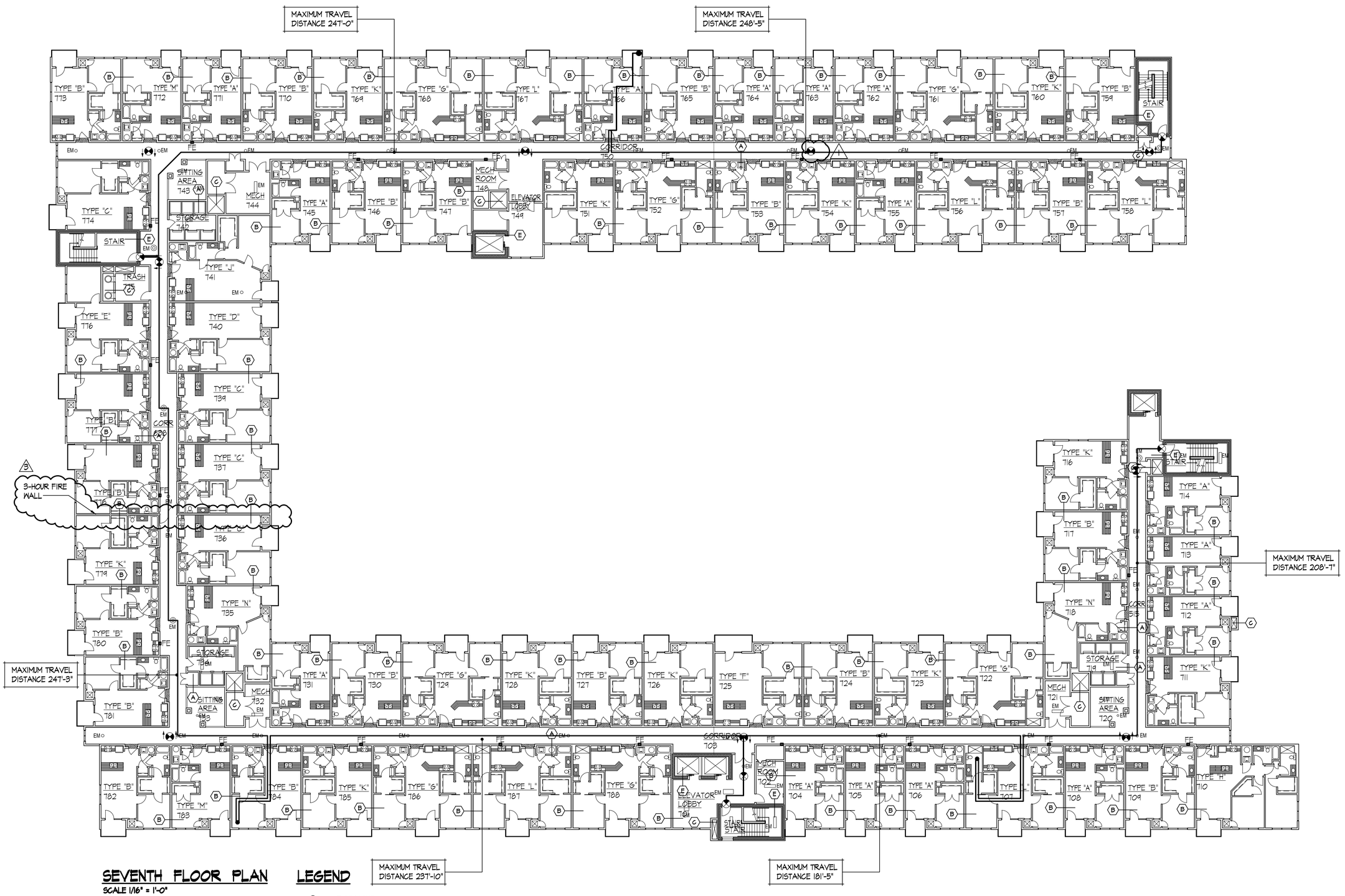

SEVENTH FLOOR PLAN

SCALE 1/16" = 1'-0"

LEGEND

EXIT LIGHT

EM EMERGENCY LIGHT

FE FIRE EXTINGUISHER

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001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2748
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18 JUN 2021

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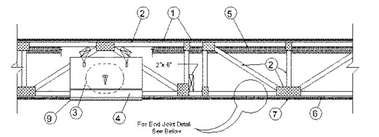
Design No. L521

June 11, 2021

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 25 Min (See Items 5 and 5A), 20 Min (See Items 6H and 7A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



Alternate Insulation Placement

1. **Flooring System —** The flooring system shall consist of one of the following:

System No. 1

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Floor — Min 1 by 4 in. T & G lumber installed perpendicular to trusses, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring* — Floor Topping Mixture — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

LATICRETE SUPERCAP\ L L C — Types LRK, HSLRK

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding minimum thickness of floor topping over floor mat.
GRASSWORX L L C — SC Types

System No. 3 (For Use with Item 7A Only)

Finish Floor — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and 2-1/2 in. long nails, spaced 12 in. OC along each truss and 8 in. OC at the perimeter.

System No. 4

Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self- countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.
UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

LATICRETE SUPERCAP\ L L C — Types LRK, HSLRK

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

System No. 5

Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self- countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.
UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

System No. 6

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. **Vapor Barrier —** (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt. **Floor Mat Materials* —** (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).
HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm).
HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)
HACKER INDUSTRIES INC — FIRM-FILL SCM 400

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).
HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750

Metal Lath (Optional) — (Optional) — For use with 3/8 in. (10 mm), or greater, floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1 in. (25 mm) over the floor mat.**Finish Flooring — Floor Topping Mixture* —** Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.
HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Gyp-Span Radiant

System No. 7

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.**Vapor Barrier —** (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.**Finish Floor* — Mineral and Fiber Board —** Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft.
HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 8

Subflooring —Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier —(Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill High Strength, Gyp-Span Radiant

2. **Trusses —** Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. when no **Ceiling Damper*** is used and 18 in. when a **Ceiling Damper*** is used. Truss members secured together with min 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The plates are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.

3. **Air Duct* —** Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

4. **Ceiling Damper* —** For use with min 18 in. deep trusses. Max nom area shall be 324 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

4A. **Alternate Ceiling Damper* —** For use with min 18 in. deep trusses. Max nom area shall be 196 sq in. with the length not to exceed 26 in. and the width not to exceed 14 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) not to exceed 144 $in.^2$ shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-8T

POTTORFF — Model CFD-521-8T

4B. **Alternate Ceiling Damper* —** For use with min 18 in. deep trusses. Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Models RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

4C. **Alternate Ceiling Damper* —** For use with min 18 in. deep trusses. Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Models RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

4D. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

4E. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SIG-CRD

4F. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SMT-CRD

4G. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD5SCS

4H. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFLWT

4I. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RD1 and RDH

4J. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

4K. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

5. **Batts and Blankets* —** (Optional) — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced 24 in. OC, no insulation shall be installed in the concealed space. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6B) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient or furring channels (or Steel Framing Members) and gypsum panel membrane. When **Steel Framing Members** (Item 6C) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ca) and gypsum board ceiling membrane, and friction-fitted between, and Steel Framing Members (Item 6Cd). The finished rating has only been determined when the insulation is secured to the subflooring.

5A. **Fiber, Sprayed* —** (Dry Dense Packed 100% Borate Formulation) — (Optional) — As an alternate to Item 5, When used, the resilient channel and gypsum board attachment is modified as specified in Items 6 and 7 and wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product. When Item 5A (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B, 6C, 6G or 6H.
U S GREENFIBER L L C — INS735, INS745, INS750LD, INS765LD, INS773LD, & SANCTUARY to be used with dry application only.

5B. **Fiber, Sprayed* —** (Loose Fill 100% Borate Formulation) — (Optional) — As an alternate to Items 5 and 5A, The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a minimum dry density of 0.5 lb/ft^3 and at a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. Wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. When Item 5B (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B, 6C, 6D, 6E, 6F, 6G, 6H or 6I.
U S GREENFIBER L L C — INS735, INS745, INS750LD, INS765LD, INS773LD, & SANCTUARY to be used with dry application only.

5C. **Foamed Plastic* —** (As alternate to Item 5, 5A, or 5B, Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 8-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). Spray foam insulation is limited for use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 4 through 4K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 5 through 5B, or 6A through 6I.
SES FOAM INC — Sucraseal

5D. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* —** (As described above in Items 5 through 5B) — (For Use with Item 7A, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6H) /gypsum board (Item 7A) ceiling membrane.

5E. **Foamed Plastic* —** (As alternate to Item 5, 5A, or 5C, Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 or 2.0 lb/ft^3 density, depending on the product installed. Spray foam insulation is limited to use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 4 through 4K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 5 through 5B, or 6A through 6I.
BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 8120G, Wallrite® 200, Wallrite® US, Wallrite® US-N, and Wallrite® HP+

5F. **Foamed Plastic* —** — (As alternate to Item 5, 5A, 5B, 5C or 5E, Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). Spray foam insulation is limited for use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 4 through 4K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 5 through 5B, or 6A through 6I.
EASYSEAL5 INC — EasySeal 5

5G. **Foamed Plastic* —** (As alternate to Item 5 - not to be used in combination with any alternates to Item 5) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 11 in. at a nominal 0.5 lb/ft^3 - 2.5 lb/ft^3 density, while maintaining a minimum 7 in. clearance between the spray foam insulation and the gypsum board (Item 7). Spray foam insulation is limited for use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 4 through 4K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 5 through 5B, or 6A through 6I.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamulate Closed Cell, Foamulate OCX, Foamulate 70, and Foamulate HFO.

6. **Resilient Channels —** Formed from min 25 MSG galv steel installed perpendicular to trusses. When there is no insulation installed in the concealed space the resilient channels are spaced 24 in. OC. When insulation (Item 5) is secured to the underside of the subfloor the resilient channels are spaced 16 in. OC. When insulation, Items 5, 5A or 5B is applied over the resilient channel/gypsum panel ceiling membrane, or when Item 5C, 5E or 5F is applied to underside of subflooring, the resilient channels are spaced 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint as shown in the above illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.

6A. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5, 5A or 5B is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —**
Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. RSIC-S/-X secured to alternating trusses with No 10, X 3-1/2 in. coarse screw. Furring channels are friction fitted into clips. RSIC-1, RSIC-V and RSIC-S/-X clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. When **Fiber, Sprayed** (Item 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board shall be installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1-1/4 in. long, fine thread, #6, Type S bugle-head steel screws spaced 8 in. OC along butt joints and in the field of the board. Gypsum board butted end joints shall be staggered minimum 24 in. and occur 3 in. from the continuous furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75), RSIC-S/-X

6B. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6, main runners, cross tees, cross channels and wall angle as listed below.
a. **Main Runners —** Nom 10 or 12 lb /ong, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of trusses at least 5 in. above the bottom face.

b. **Cross Tees or Channels —** Nom 4 ft long cross tees, with 15/16 in. or 1-1/2 in. wide face, or nom 4 ft long cross channels, with 1-1/2 in. wide face, either spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall Angle or Channel —** Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6C. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6.
a. **Furring Channels** — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max. 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Cb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 5. Two layers of gypsum board attached to furring channels as described in item 7.

b. **Cold Rolled Channels —** 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Cd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Cd) location.

d. **Steel Framing Members* —** Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Cc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.
KINETICS NOISE CONTROL INC — Type ICW

6D. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. Two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 5B.
KINETICS NOISE CONTROL INC — Type Isomax

6E. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. When **Fiber, Sprayed** (Item 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board shall be installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1-1/4 in. long, fine thread, #6, Type S bugle-head steel screws spaced 8 in. OC along butt joints and in the field of the board. Gypsum board butted end joints shall be staggered minimum 24 in. and occur 3 in. from the continuous furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75), RSIC-S/-X

6F. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to joists. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the joists with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold furring channel that supports the gypsum board butt joints as described in Item 7.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6G. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6 — Not for use with Items 5, 5A or 5B — Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

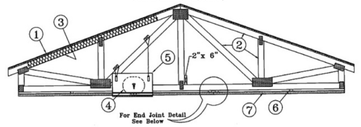
6H.

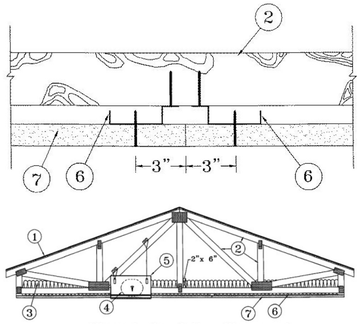
Design No. P522

May 22, 2021

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 25 Min (See Items 3 or 3A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**





Alternate Insulation Placement

1. **Roofing System* —** Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. **Trusses —** Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Minimum parallel chord truss depth shall be 18 in. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. **Batts and Blankets* —** (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When **Steel Framing Members** (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.

3A. **Fiber, Sprayed* —** As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft^3, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft^3 over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft^3 behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.
U S GREENFIBER L L C — INS735, INS745, INS750LD, and SANCTUARY for use with wet or dry application. INS510LD, INS515LD, INS544LD, INS735, INS765LD, and INS773LD are to be used for dry application only.

3B. **Foamed Plastic* —** (As an alternate to Item 3 or 3A, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 8-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using nominal 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
SES FOAM INC — Sucraseal

3C. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* —** (As described above) in Items 3 and 3A — (For Use with Item 7B, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6G)/gypsum board (Item 7B) ceiling membrane.

3D. **Foamed Plastic* —** (As alternate to Item 3, 3A, or 3B, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 or 2.0 lb/ft^3 density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Wallitse® US, Wallitse® US-N, and Wallitse® HP+

3E. **Foamed Plastic* —** (As an alternate to Item 3, 3A, 3B, 3C, or 3D, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
SES FOAM INC — EasySeal.5

3F. **Foamed Plastic* —** (As alternate to Item 3 - not to be used in combination with any alternates to item 3) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 11 in. at a nominal 1.0 lb/ft^3 - 2.5 lb/ft^3 density, while maintaining a minimum 7 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Only for use with item 6 not evaluated for use with alternates to item 6.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamulate Closed Cell, Foamulate OCX, Foamulate 70, and Foamulate HFO.

4. **Air Duct* —** Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. **Ceiling Damper* —** Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

5A. **Alternate Ceiling Damper* —** Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521-8T

POTTORFF — Model CFD-521-8T.

5B. **Alternate Ceiling Damper* —** Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP.

POTTORFF — Models CFD-521-IP, CFD-521-NP

5C. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

5D. **Alternate Ceiling Damper* —** Ceiling damper & fan. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SIG-CRD

5E. **Alternate Ceiling Damper* —** Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

5F. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SMT-CRD

5G. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05CS

5H. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFUWT

5I. **Alternate Ceiling Damper* —** Ceiling damper & fan. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RD1I and RDHI

5J. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

5K. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

6. **Furring Channels —** Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation (Item 3B, 3D or 3E) is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

6A. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

6B. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6 and 6A.
a. **Furring Channels —** Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.

b. **Cold Rolled Channels —** 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.

d. **Steel Framing Members* —** Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.
KINETICS NOISE CONTROL INC — Type ICW.

6C. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A and 6B.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (48 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PLITEQ INC — Type Genie Clip

6D. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.
a. **Main runners —** Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. **Cross tees or channels —** Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall angles or channels —** Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6E. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A, 6B, and 6C, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6F. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

6G. **Resilient Channels —** For Use With Item 7B - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 3C is applied over the resilient channel/gypsum panel ceiling membrane.

6H. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 6 through 6G, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
REGUPOL AMERICA — Type SonusClip

7. **Gypsum Board* —** One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. When insulation (Item 3B, 3D or 3E) is installed in the concealed space, spray-applied to the underside of the roofing system (Item 1), screws are spaced a max of 8 in. OC along resilient channels, fasteners are increased in length to 1-1/4 in, and gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels.
When **Steel Framing Members*** (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.

When **Steel Framing Members** (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer.

When **Steel Framing Members** (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end, spaced approximately 2 in. in from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joint furring channels shall be attached with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side joints, approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring channels shall be attached to underside of the joist with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of the approximate 20 in. length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

When **Steel Framing Members** (Item 6D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from end joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.

When alternate **Steel Framing Members*** (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When **Steel Framing Members** (Item 6H) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.
CGC INC — Types C IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. **Gypsum Board* —** For use with Steel Framing Members (Item 6D) when Batts and Blankets* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with fine wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with **Steel Framing Members*** (Item 6D) when **Batts and Blankets*** (Item 3) are used - Rating limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.
CGC INC — Type C or IP-X2

UNITED STATES GYPSUM CO — Type C or IP-X2

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C or IP-X2

7B. **Gypsum Board* —** For use with Items 3C and 6G. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Type ULIX

8. **Finishing System —** (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. **Alternate Ceiling Membrane** — Not Shown.

9. **Netting —** Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2021-05-22

Design No. W408

March 13, 2020

Bearing Wall Rating — 2 Hr when EXPOSED TO FIRE ON INTERIOR FACE ONLY

(Maximum loading on the bearing wall to be based on un-braced stud height of 93.75 inches in the week axis of the studs)

Bearing Wall Rating — 1 Hr when EXPOSED TO FIRE ON EXTERIOR FACE ONLY, see Item 4 and 6

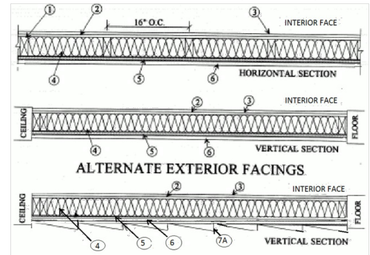
(Maximum loading on the bearing wall to be based on un-braced stud height of 93.75 inches in the week axis of the studs)

For Wood Studs, Finish Rating — 50 min when EXPOSED TO FIRE ON INTERIOR FACE.

For Wood Studs, Finish Rating — 17 min when EXPOSED TO FIRE ON EXTERIOR FACE.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Wood Studs —** Nom 2 by 4 in., spaced 16 in. OC with double 2 by 4 top and single 2 by 4 in. bottom plates, with 2 by 4 in. lateral bracing at 96 in. OC max. Studs effectively fire stopped. As an option, nom 2 by 6 in., spaced 24 in. OC with double 2 by 6 top and single 2 by 6 bottom plates, with 2 by 6 in. lateral bracing at 96 in. OC max may be used in lieu of 2 by 4 studs and plates. Studs effectively fire stopped.

1A. **Steel Studs and Floor and Ceiling Tracks —** As an option to Item 1 — (Not Shown) — Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness

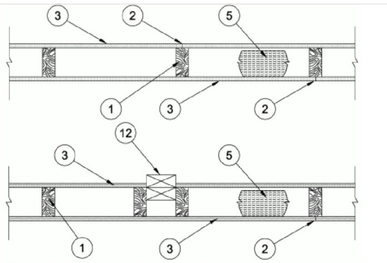
Design No. U305

June 18, 2021

Bearing Wall Rating — 1 Hr
Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.
STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Wood Studs —** Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. **Joints and Nail-Heads —** Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. **Gypsum Board* —** 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F. **Steel Framing Members***.
When Items 6, 6B, 6C, 6D, 6E, or 6F, **Steel Framing Members***, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BELUING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min), Type ULIX (finish rating 20 min)

CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGELX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPF5(1 (finish rating 20 min), Type GPF52 (finish rating 20 min), Type GPF56 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, SoftN - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), SoftN-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), SoftN- Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LWXX (finish rating 22 min), Veneer Plaster Base - Type LWZX (finish rating 22 min), Water Rated - Type LWZX (finish rating 22 min), Sheathing - Type LWZX (finish rating 22 min), SoftN - Type LWZX (finish rating 22 min), Type DGLZW (finish rating 22 min), Water Rated - Type DGLZW (finish rating 22 min) Sheathing - Type DGLZW (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-5WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)

PANEL REY S A — Type GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

3A. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X, Type X-1 (finish rating 26 min), Type EGRG or GlasRoc.

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. **Gypsum Board* —** (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

3C. **Gypsum Board* —** (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

3D. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.
CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC —, Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. **Gypsum Board* —** (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. **Gypsum Board* —** (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
NATIONAL GYPSUM CO — Type SBWB

3I. **Gypsum Board* —** (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured per Item 3 or 3A.
CERTAINTEED GYPSUM INC — Type SilentFX

3K. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).

3L. **Gypsum Board* —** (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. **Gypsum Board* —** (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.
CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

3O. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. **Gypsum Board* —** (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.
NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGELX

3R. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. **Gypsum Board* —** 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

3T. **Wall and Partition Facings and Accessories* —** (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

3U. **Gypsum Board* —** (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X

CERTAINTEED GYPSUM INC — Type X

CGC INC — Type SCX

PANEL REY S A — Type PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Type SCX and SGX

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

USG MEXICO S A DE C V — Type SCX

3V. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5K) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field.

4. **Steel Corner Fasteners —** (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. **Batts and Blankets* —** (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.
CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Delta Board

THERMAFIBER INC — Type SAFB, SAFB FF

5A. **Fiber, Sprayed* —** (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lbs/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb./ft^3, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD or INS773LD.
U S GREENFIBER L L C — INS735, INS745 and INS750LD for use with wet or dry application. INSS15LD, INSS41LD, INS735, INS765LD, and INS773LD are to be used for dry application only

5B. **Fiber, Sprayed* —** (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets* —** Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.

THERMAFIBER INC — Type SAFB, SAFB FF

5D. **Glass Fiber Insulation —** (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5E. **Batts and Blankets* —** (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. **Fiber, Sprayed* —** (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf. to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. **Fiber, Sprayed* —** (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. **Foamed Plastic* —** (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

5I. **Fiber, Sprayed* —** (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

5J. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5K. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamulate Closed Cell, Foamulate OCX, Foamulate 70, and Foamulate HFO.

6. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.73), RSIC-V (2.75)

6A. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

6B. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6C. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6D. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6E. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

6F. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6G. **Steel Framing Members* —** (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

7. **Furring Channel —** Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. **Caulking and S

Design No. U341

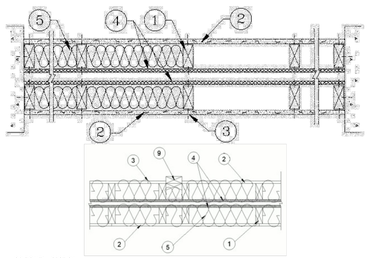
September 23, 2020

Bearing Wall Rating — 1 Hr.

Finish Rating — Min 20 min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



HORIZONTAL SECTION

1. **Wood Studs —** Nom 2 by 4 in., spaced 24 in. OC max. Cross braced at mid-height and effectively firestopped at top and bottom of wall. No min. air space between stud rows except to accommodate attachment of sheathing, where required. See Items 4 and 5.

2. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. LS01, GS12 or U305.** Nom 5/8 in. thick 4 ft wide. Gypsum board applied horizontally or vertically, unless specified below, and nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails.
When **Steel Framing Members*** (Item 6 or any alternate clip) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When used in widths other than 48 in., gypsum board to be installed horizontally.

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board* —** (As an alternate to Item 2, not shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5C. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-530 (finish rating 23 min).

2B. **Gypsum Board* —** (As an alternate to Item 2, not shown) — Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. LS01, GS12 or U305, supplied by the Classified companies listed below shown in the **Gypsum Board*** (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2C. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) — 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-S, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-G, Type FSL

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2D. **Gypsum Board* —** (As an alternate to Items 2, 2A, 2B and 2C) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 2. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

2E. **Gypsum Board* —** (As an alternate to Items 2 through 2D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 2.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

2F. **Gypsum Board* —** (As an alternate to Items 2 through 2E) - Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6.
NATIONAL GYPSUM CO — Type SBWB

2G. **Gypsum Board* —** (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES.

2H. **Gypsum Board* —** (As an alternate to Items 2 through 2G) — Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CERTAINTEED GYPSUM INC — Type SilentFX

2I. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2J. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 2) — 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in Item 2, spaced 24 in. OC. Outer layer attached per Item 2.
NATIONAL GYPSUM CO — Type FSW.

2K. **Gypsum Board* —** (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGILLX

3. **Joints and Nailheads —** Gypsum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. **Sheathing —** (Optional) — Segtum may be sheathed with min 7/16 in. thick wood structural panels min grade "C-D" or "Sheathing" or min 1/2 in. thick **Mineral and Fiber Boards***.
See **Mineral and Fiber Boards** (CERZ) category for names of Classified companies.

5. **Batts and Blankets* —** 3-1/2 in. max thickness glass or mineral fiber batt insulation. **Optional** when sheathing (Item 4) is used on both halves of wall.
See **Batts and Blankets** (BZJZ) category for list of Classified companies.

5A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
U S GREENFIBER L L C — INS715, INS745 and INS750LD for use with wet or dry application. INS511SLD, INS541LD, INS711LD, INS715, INS765LD, and INS775LD are to be used for dry application only.

5B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets* —** (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Item 4, does not nullify requirement of Item 5C for use with Item 2A) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lb/ft^3.
INTERNATIONAL CELLULOSE CORP — Cellar-RL

5E. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

6. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2.

B. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs (Item 1) . Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6B. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6CA) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6D. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6E. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6F **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. **Mineral and Fiber Board* —** ((Optional, Not Shown) — For optional use as an additional layer on one or both sides of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing as described in Item 2. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

9. **Non-Bearing Wall Partition Intersection —** (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs are to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

(Optional, Not Shown) Alternate Construction For Use On One Side Of The Wall.

10. **Mineral and Fiber Board* —** For use with Items 10A-10D) —Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

10A. **Glass Fiber Insulation —** (For use with Item 10) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

10B. **Batts and Blankets* —** (As an alternate to Item 10B, For use with Item 10), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

10C. **Adhesive —** (For use with Item 10) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

10D. **Gypsum Board* —** (For use with Item 10) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 10). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types S, DAFC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Type CTypes C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

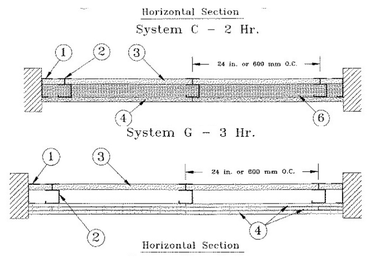
3

Design No. U415

December 22, 2020

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor, Side and Ceiling Runners —** "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in, fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs —** "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs —** (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) " E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels —** (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-6 gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels —** For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

2E. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

2G. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2I. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board* —**

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System C — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in.. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

4A. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture.

Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

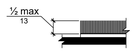


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

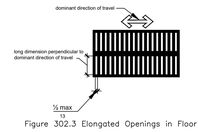


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

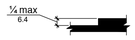


Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

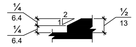


Figure 303.3 Beveled Change in Level

304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

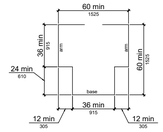


Figure 304.3.2 T-Shaped Turning Space

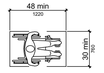


Figure 305.3 Clear Floor or Ground Space

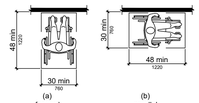


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

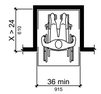


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

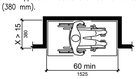


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

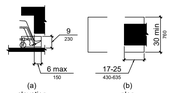


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

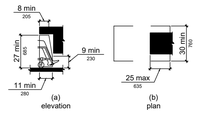


Figure 306.3 Knee Clearance

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

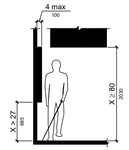


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

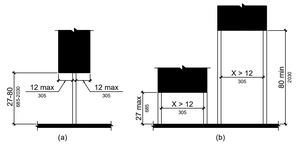


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

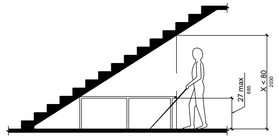


Figure 307.4 Vertical Clearance

308 Reach Ranges

Children's Reach Ranges

Forward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36 in (915 mm)	20 in (510 mm)
Ages 5 through 8	40 in (1015. mm)	18 in (455 mm)
Ages 9 through 12	44 in (1120 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

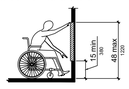


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

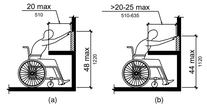
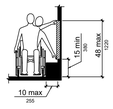


Figure 308.3.1 Unobstructed Side Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

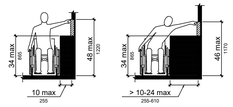


Figure 308.3.2 Obstructed High Side Reach

309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

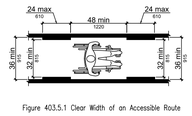


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

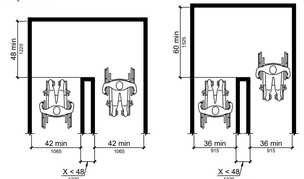


Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404 Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

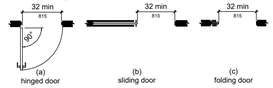


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

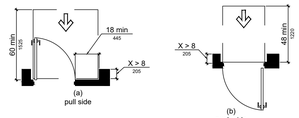


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

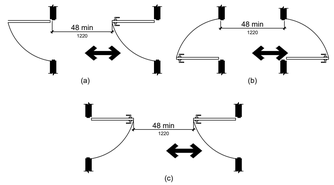


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405 Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

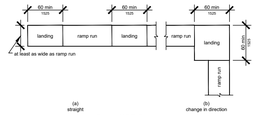


Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

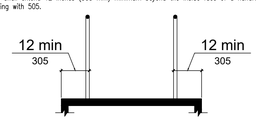


Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

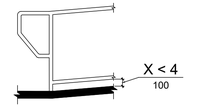


Figure 405.9.2 Curb or Barrier Edge Protection

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

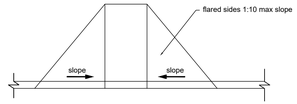


Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

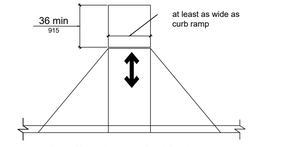


Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

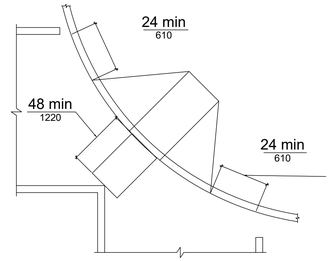


Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

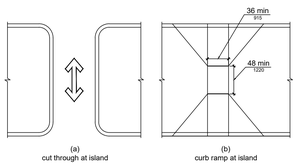


Figure 406.7 Islands in Crossings

GENERAL NOTE -
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2 - 6 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025

LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
26 SEP 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
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PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

ADA.1

JONES & JONES ASSOCIATES / ARCHITECTS PC

407 Elevators

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

EXCEPTION: Existing conditions don't have to comply

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

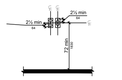

Figure 407.2.2.2 Visible Hall Signals

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

407.2.3.2 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.2 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum.

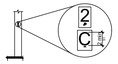

Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

407.3.4 Door and Signal Timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for entry of destination information until the doors of that car start to close shall be calculated from the following equation:

T = D/(1.5 ft/s) or T = D/(455 mm/s) = 5 seconds minimum where T equals the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 3 seconds

407.3.6 Width. The width of elevator doors shall comply with Table 407.4.1.

407.4 Elevator Car Requirements. Elevator cars shall comply with 407.4.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.

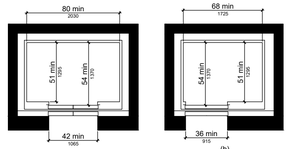

Figure 407.4.1 Elevator Car Dimensions

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 309.4.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.

407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the finish floor.

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with tactile symbols as shown in Table 407.4.7.1.3.

407.4.8.1.1 Size. Characters shall be 1/2 inch (13 mm) high minimum.

407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

408 Limited-Use/Limited-Application Elevators

408.1 General. Limited-use/limited-application elevators shall comply with 408 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

408.2 Elevator Landings. Landings serving limited-use/limited-application elevators shall comply with

408.2.1 Call Buttons. Elevator call buttons and keypads shall comply with 407.2.1.

408.2.2 Hall Signals. Hall signals shall comply with 407.2.2.

408.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.1.

408.3 Elevator Doors. Elevator hoistway doors shall comply with 408.3.

408.3.1 Sliding Doors. Sliding hoistway and car doors shall comply with 407.3.1 through 407.3.3 and 408.4.1.

408.3.2 Swinging Doors. Swinging hoistway doors shall open and close automatically and shall comply with 404, 407.3.2 and 408.3.2.

408.3.2.1 Power Operation. Swinging doors shall be power-operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

408.3.2.2 Duration. Power-operated swinging doors shall remain open for 20 seconds minimum when activated.

408.4 Elevator Cars. Elevator cars shall comply with 408.4.

408.4.1 Car Dimensions and Doors. Elevator cars shall provide a clear width 42 inches (1065 mm) minimum and a clear depth 54 inches (1370 mm) minimum. Car doors shall be positioned at the narrow ends of cars and shall provide 32 inches (815 mm) minimum clear width.

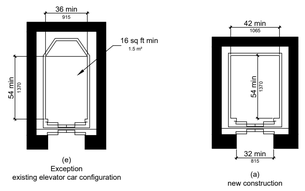

Figure 408.4.1 Limited-Use/Limited-Application (LULA) Elevator Car Dimensions 15 sq ft min

408.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

408.4.3 Platform to Hoistway Clearance. The platform to hoistway clearance shall comply with 407.4.3.

408.4.4 Leveling. Elevator car leveling shall comply with 407.4.4.

408.4.5 Illumination. Elevator car illumination shall comply with 407.4.5.

408.4.6 Car Controls. Elevator car controls shall comply with 407.4.6. Control panels shall be centered on a side wall.

408.4.7 Designations and Indicators of Car Controls. Designations and indicators of car controls shall comply with 407.4.7.

408.4.8 Emergency Communications. Car emergency signaling devices complying with 407.4.9 shall be provided.

409 Private Residence Elevators

409.1 General. Private residence elevators that are provided within a residential dwelling unit required to provide mobility features complying with 809.2 through 809.4 shall comply with 409 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

409.2 Call Buttons. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension and shall comply with 309.

409.3 Elevator Doors. Hoistway doors, car doors, and car gates shall comply with 409.3 and 404.

409.3.1 Power Operation. Elevator car and hoistway doors and gates shall be power operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Power operated doors and gates shall remain open for 20 seconds minimum when activated.

409.3.2 Location. Elevator car doors or gates shall be positioned at the narrow end of the clear floor spaces required by 409.4.1.

409.4 Elevator Cars. Private residence elevator cars shall comply with 409.4.

409.4.1 Inside Dimensions of Elevator Cars. Elevator cars shall provide a clear floor space of 36 inches (915 mm) minimum by 48 inches (1220 mm) minimum and shall comply with 305.

409.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

409.4.3 Platform to Hoistway Clearance. The clearance between the car platform and the edge of any landing sill shall be 1 1/2 inch (38 mm) maximum.

409.4.4 Leveling. Each car shall automatically stop at a floor landing within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

409.4.5 Illumination Levels. Elevator car illumination shall comply with 407.4.5.

409.4.6 Car Controls. Elevator car control buttons shall comply with 409.4.6, 309.3, 309.4, and shall be raised or flush.

409.4.6.1 Size. Control buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

409.4.6.2 Location. Control panels shall be on a side wall, 12 inches (305 mm) minimum from any adjacent wall.

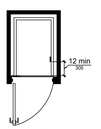

Figure 409.4.6.2 Location of Private Residence Elevator Control Panel

409.4.7 Emergency Communications. Emergency two-way communication systems shall comply with

409.4.7.1 Type. A telephone and emergency signal device shall be provided in the car.

409.4.7.2 Operable Parts. The telephone and emergency signaling device shall comply with 309.3 and 309.4.

409.4.7.3 Compartment. If the telephone or device is in a closed compartment, the compartment door hardware shall comply with 309.

409.4.7.4 Cord. The telephone cord shall be 29 inches (735 mm) long minimum.

410 Platform Lifts

410.1 General. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

Advisory 410.1 General. Inclined stairway chairlifts and inclined and vertical platform lifts are available for short-distance vertical transportation. Because an accessible route requires an 80 inch (2030 mm) vertical clearance, care should be taken in selecting lifts as they may not be equally suitable for use by people using wheelchairs and people standing. If a lift does not provide 80 inch (2030 mm) vertical clearance, it cannot be considered part of an accessible route in new construction.

The ADA and other Federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners are reminded that the ASME A18 Safety Standard for Platform Lifts and Stairway Chairlifts requires routine maintenance and inspections. Isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could constitute a violation of Federal laws and these requirements.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 inch (32 mm) maximum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.

EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

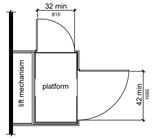

Figure 410.6 Platform Lift Doors and Gates

501 General

501.1 Scope. The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

502 Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

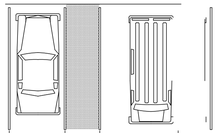

Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

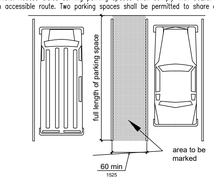

Figure 502.3 Parking Space Access Aisle

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

503 Passenger Loading Zones

503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisle. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

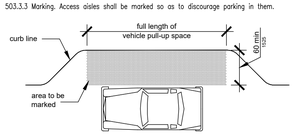

Figure 503.3 Passenger Loading Zone Access Aisle

503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

503.5 Vertical Clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches (2895 mm) minimum.

504 Stairways

504.1 General. Stairs that are part of the means of egress is required to comply with 504

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below.

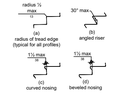

Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

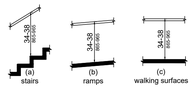

Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

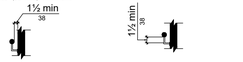

Figure 505.5 Handrail Clearance Figure 505.6 Horizontal Projections Below Gripping Surface

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

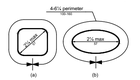

Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

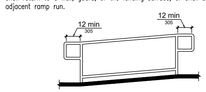

Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

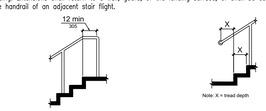

Figure 505.10.2 Top Handrail Extension at Stairs Figure 505.10.3 Bottom Handrail Extension at Stairs

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

Figure 602.5 Drinking Fountain Spout Location

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603 Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

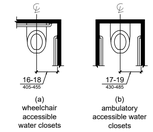

Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

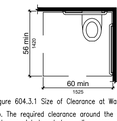

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

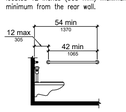

Figure 604.5.1 Side Wall Grab Bar at Water Closets

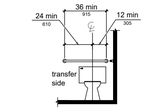

Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

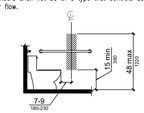

Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

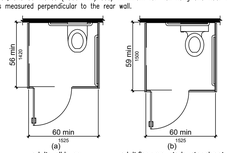

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

GENERAL NOTE –
THIS DATA IS PROVIDED AS AN ADDITIONAL RESOURCE TO THE TEAM OF OWNER, CLIENT, ARCHITECT, ENGINEER AND SPECIFICALLY CONTRACTOR. THIS IS A REFERENCE TOOL PROVIDED TO INFORM ALL PARTIES OF TYPICAL ACCESSIBILITY CONDITIONS AS PUBLISHED PER ADAAG (AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES) EFFECTIVE SEPTEMBER 15, 2010. THE DIAGRAMS PROVIDED ARE DUPLICATIONS OF THE ADAAG STANDARDS AND ARE NOT INDICATIVE OF ALL CONDITIONS AND DO NOT REPRESENT THE ENTIRETY OF THE WRITTEN GUIDELINES AS CONTAINED IN THE PUBLISHED STANDARDS. THE DATA IS IN SUPPORT OF GENERAL ARCHITECTURAL AND ENGINEERING DOCUMENTATION. WHILE THE INFORMATION HERE IS TO ENDEAVOR TO REPRESENT TYPICAL CONDITIONS, IN THE EVENT OF CONFLICT, THE PUBLISHED STANDARDS AND TECHNICAL MEMORANDA SHALL GOVERN.

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1 - 6 JUL 2021
2 - 6 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025

LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
26 SEP 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2198
DATE
18 JUN 2021

ADA.2

JONES & JONES ASSOCIATES / ARCHITECTS PC

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

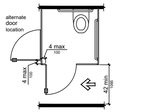

Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet and the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm)deep

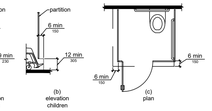

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

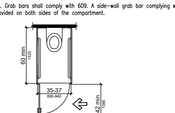

Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

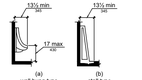

Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

607 Bathtubs

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

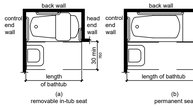

Figure 607.2 Clearance for Bathtubs

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

607.4.1.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.1.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

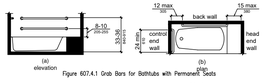

Figure 607.4.1 Grab Bars for Bathtubs with Permanent Seats

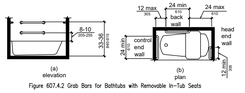

Figure 607.4.2 Grab Bars for Bathtubs with Removable In-Tub Seats

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars shall comply with 607.4.2.

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

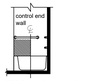

Figure 607.5 Bathtub Control Location

607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.

607.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

608 Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

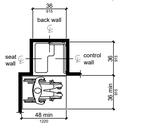

Figure 608.2.1 Transfer Type Shower Compartment Size and Clearance

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.

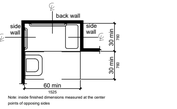

Figure 608.2.2 Standard Roll-In Type Shower Compartment Size and Clearance

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

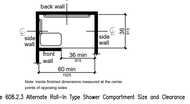

Figure 608.2.3 Alternate Roll-In Type Shower Compartment Size and Clearance

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

608.3.1 Transfer Type Shower Compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the control wall.

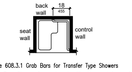

Figure 608.3.1 Grab Bars for Transfer Type Showers

608.3.2 Standard Roll-In Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

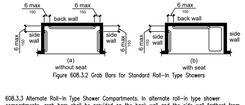

Figure 608.3.2 Grab Bars for Standard Roll-In Type Showers

608.3.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

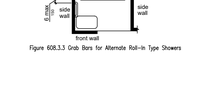

Figure 608.3.3 Grab Bars for Alternate Roll-In Type Showers

608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610.

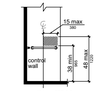

Figure 608.4.1 Transfer Type Shower Controls and Handshower Location

608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4.

608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

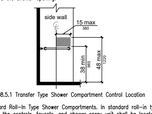

Figure 608.5.1 Transfer Type Shower Compartment Control Location

608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

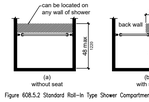

Figure 608.5.2 Standard Roll-In Type Shower Compartment Control Location

608.5.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall

shower spray unit shall be installed on the side wall farthest from the compartment entry.

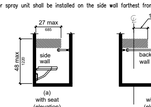

Figure 608.5.3 Alternate Roll-In Type Shower Compartment Control Location

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-position shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum.

608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm) high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

609 Grab Bars

609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

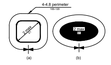

Figure 609.2.2 Grab Bar Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

Figure 609.3 Spacing of Grab Bars

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

610 Seats

610.2 Bathtub Seats. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub.

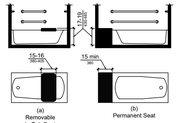

Figure 610.2 Bathtub Seats

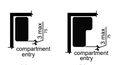

Figure 610.3 Extent of Seat

610.3 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

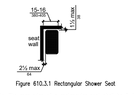

Figure 610.3.1 Rectangular Shower Seat

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.

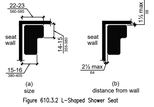

Figure 610.3.2 L-Shaped Shower Seat

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

611 Washing Machines and Clothes Dryers

611.2 Clear Floor Space. A clear floor or ground space complying with 305 positioned for parallel approach shall be provided. The clear floor or ground space shall be centered on the appliance.

611.3 Operable Parts. Operable parts, including doors, lint screens, and detergent and bleach compartments shall comply with 309.

611.4 Height. Top loading machines shall have the door to the laundry compartment located 36 inches (915 mm) maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (380 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

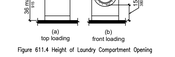

Figure 611.4 Height of Laundry Compartment Opening

612 Saunas and Steam Rooms

612.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall comply with 903. Doors shall not swing into the clear floor space required by 903.2.

612.3 Turning Space. A turning space complying with 304 shall be provided within saunas and steam rooms

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

702 Fire Alarm Systems

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the minimum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

Figure 703.2.5 Height of Raised Characters

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

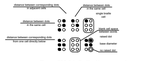

Figure 703.3.1 Braille Measurement

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

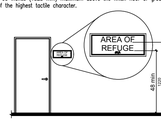

Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the active leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

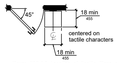

Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height from Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

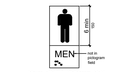

Figure 703.6.1 Pictogram Field dark-on-light.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

704 Telephones

704.1 General. Public telephones shall comply with 704.

704.2 Wheelchair Accessible Telephones. Wheelchair accessible telephones shall comply with 704.2.

704.2.1 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided. The clear floor or ground space shall not be obstructed by boxes, enclosures, or seats.

Advisory 704.2.1 Clear Floor or Ground Space. Because clear floor and ground space is required to be unobstructed, telephones, enclosures and related telephone book storage cannot encroach on the required clear floor or ground space and must comply with the provisions for protruding objects. (See Section 307).

704.2.1.1 Parallel Approach. Where a parallel approach is provided, the distance from the edge of the telephone enclosure to the face of the telephone unit shall be 10 inches (255 mm) maximum.

Figure 704.2.1.1 Parallel Approach to Telephone

Figure 704.2.1.2 Forward Approach to Telephone

704.2.1.2 Forward Approach. Where a forward approach is provided, the distance from the front edge of a counter within the telephone enclosure to the face of the telephone unit shall be 20 inches (510 mm) maximum.

704.2.2 Operable Parts. Operable parts shall comply with 309. Telephones shall have push-button controls where such service is available.

704.2.3 Telephone Directories. Telephone directories, where provided, shall be located in accordance with 309.

704.2.4 Cord Length. The cord from the telephone to the handset shall be 29 inches (735 mm) long minimum.

704.3 Volume Control Telephones. Public telephones required to have volume controls shall be equipped with a receive volume control that provides a gain adjustable up to 20 dB minimum. For incremental volume control, provide at least one intermediate step of 12 dB of gain minimum. A automatic reset shall be provided.

704.4 TTYs. TTYs required at a public pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. Where an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the TTY and the telephone receiver.

704.4.1 Height. When in use, the touch surface of TTY keypads shall be 34 inches (865 mm) minimum above the finish floor.

704.5 TTY Shelf. Public pay telephones required to accommodate portable TTYs shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a TTY and shall have 6 inches (150 mm) minimum vertical clearance above the area where the TTY is to be placed.

705 Detectable Warnings

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

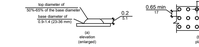

Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

706 Assistive Listening Systems

706.2 Receiver Jacks. Receivers required for use with an assistive listening system shall include a 1/8 inch (3.2 mm) standard mono jack.

706.3 Receiver Hearing-Aid Compatibility. Receivers required to be hearing-aid compatible shall interface with telecoils in hearing aids through the provision of neckloops.

706.4 Sound Pressure Level. Assistive listening systems shall be capable of providing a sound pressure level of 110 dB minimum and 118 dB maximum with a dynamic range on the volume control of 50 dB.

706.5 Signal-to-Noise Ratio. The signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum.

706.6 Peak Clipping Level. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of speech.

707 Automatic

DESIGN CRITERIA

1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE.
   OCCUPANCY CATEGORY: II
2. DESIGN LOADS:

GROUND SNOW LOAD: Pg	25 PSF
FLAT ROOF SNOW LOAD: Pf	20 PSF
ROOF LIVE LOAD:	20 PSF
ROOF DEAD LOADS:	20 PSF
TYPICAL FLOOR LIVE LOAD:	40 PSF (RESIDENTIAL)
(7TH TO 3RD)	60 PSF (PRIVATE DECK)
	100 PSF (STAIRS & CORRIDORS)
PARKING GARAGE LIVE LOAD:	40 PSF
BASIC DESIGN WIND SPEED, V:	90 MPH ASCE7-05)
RISK CATEGORY	II
WIND EXPOSURE	B
INTERNAL PRESSURE COOFFICIENT	+/-0.55
SEISMIC IMPORTANCE FACTOR, Ie:	1.0
RISK CATEGORY	II
SITE CLASS	D
Ss = 0.181	
S1 = 0.061	
Sds = 0.193	
Sd1 = 0.098	
SEISMIC DESIGN CATEGORY	B

GENERAL NOTES:

1. ALL MATERIALS, CONSTRUCTION, AND DETAILS SHALL CONFORM WITH THE FOLLOWING:
   PLANS AND SPECIFICATIONS,
   INTERNATIONAL BUILDING CODE
   OSHA REGULATIONS
2. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE FAMILIAR WITH THE ENTIRE SET OF CONSTRUCTION DOCUMENTS (ARCHITECTURAL, CIVIL, ELECTRICAL, PLUMBING, STRUCTURAL, ETC.) IN ORDER TO PROVIDE ALL CONSTRUCTION AND MATERIALS FOR THIS PROJECT.
3. DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SUPERSEDE DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS.
4. DO NOT SCALE PLANS.
5. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
6. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND CONSTRUCTION SEQUENCE IN ORDER TO INSURE THE SAFETY OF THE BUILDING AND WORKMEN DURING CONSTRUCTION (MEANS & METHODS OF CONSTRUCTION). THIS INCLUDES, BUT IS NOT LIMITED TO: SHORING, UNDERPINNING, TEMPORARY BRACING, ETC.
7. CONSTRUCTION DOCUMENTS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORKING POINTS (COLUMN CENTERLINES, OUTSIDE FACE OF WALLS, TOP OF FRAMING MEMBERS, ETC.) MATERIAL SUPPLIERS AND DESIGNERS ARE RESPONSIBLE FOR ALL OTHER INFORMATION IN ORDER TO DETAIL/FABRICATE THEIR WORK. CONTACT THE ARCHITECT WITH ANY DISCREPANCIES.
8. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PLANS CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ARCHITECTS ATTENTION IN WRITING IMMEDIATELY OR SHALL BID THE MOST EXPENSIVE INSTALLATION SPECIFIED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY AND INTEGRITY OF ALL EXISTING STRUCTURES AND STRUCTURAL COMPONENTS DURING CONSTRUCTION.
10. CONTRACTOR SHALL VERIFY ALL EXISTING DETAILS AND DIMENSIONS SHOWN ON THIS DRAWING PRIOR TO CONSTRUCTION.
11. ALL DETAILS AND DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND DETAILS AND EQUIPMENT SHOP DRAWINGS.
12. ANY DEFECTS AND INADEQUACIES FOUND IN EXISTING STRUCTURAL ELEMENTS IN THE BUILDING SHALL BE REPORTED TO THE ARCHITECTS AND ENGINEERS IMMEDIATELY.
13. REQUIRED SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED ON ALL STEEL, CONCRETE AND MASONRY CONSTRUCTION PER CHAPTER 17 & 21 OF THE BUILDING CODE.

CONCRETE AND REINFORCEMENT

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318, ACI 301, AND THE ACI CODE OF STANDARD PRACTICE. DELIVERY AND PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 304 AND ASTM C94.
2. CONCRETE FOR SLABS ON GRADE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS AND MAXIMUM WATER TO CEMENT RATIO OF 0.45. ALL OTHER CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND MAXIMUM WATER TO CEMENT RATIO OF 0.52. CONCRETE EXPOSED TO FREEZE-THAW SHALL HAVE 6% +/- 1% AIR ENTRAINMENT AND MAXIMUM WATER TO CEMENT RATIO OF 0.40.
3. CEMENT SHALL CONFORM TO ASTM C150 TYPE I OR II. FLY ASH CONFORMING TO ASTM C618 MAY BE USED TO REPLACE NOT MORE THAN 20 PERCENT OF THE CEMENT IN THE MIXES. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
4. CONCRETE ADMIXTURE FOR AIR-ENTRAINMENT SHALL CONFORM TO ASTM C260. ALL OTHER CONCRETE ADMIXTURES SHALL CONFORM TO ASTM C494. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED IN THE CONCRETE MIXES.
5. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306 WHEN THE ATMOSPHERIC TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES F. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305 WHEN THE ATMOSPHERIC TEMPERATURE IS EXPECTED TO RISE ABOVE 90 DEGREES F.
6. FINISHED CONCRETE SHALL BE EVALUATED AND REPAIRED AS NOTED HEREIN AND IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE. ALL CONCRETE SHALL BE FREE FROM HONEYCOMBS AND OTHER DEFECTS AND SHALL BE PROPERLY CONSOLIDATED IN ACCORDANCE WITH ACI 309 "GUIDE FOR CONSOLIDATION OF CONCRETE".
7. CONCRETE FORMWORK AND FORMED CONCRETE SURFACES SHALL CONFORM TO ACI 347 "GUIDE TO FORMWORK FOR CONCRETE". EXTERIOR CONCRETE SURFACES WHICH WILL BE EXPOSED TO VIEW IN THE FINISHED STRUCTURE SHALL BE CLASS A AND SHALL BE RUBBED SMOOTH. ALL OTHER EXPOSED SURFACES SHALL BE CLASS C EXCEPT THAT CONCEALED SURFACES MAY BE CLASS D. USE FORM RELEASE AGENTS WHICH WILL NOT STAIN THE FINISHED CONCRETE SURFACES OR ADVERSELY AFFECT THE APPLICATION OF FINISHES.
8. REBAR SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL NOT BE WELDED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
9. COVER FOR REBAR SHALL BE IN ACCORDANCE WITH ACI 318 AND SHALL NOT BE LESS THAN THE FOLLOWING:

CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THRU #18 BARS	2"
#5 BAR AND SMALLER	1-1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS, WALLS, AND JOISTS:	
#14 AND #18 BARS	1-1/2"
#11 BAR AND SMALLER	3/4"

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED ON ALLOWABLE NET BEARING CAPACITY OF 3000 PSF IN ACCORDANCE WITH RECOMMENDATIONS IN THE REPORT ON SUBSURFACE SOIL.
2. MINIMUM ALLOWABLE BEARING CAPACITY AT THE BOTTOM OF EXCAVATION AT SPREAD FOOTINGS SHALL DESIGN CAPACITY PER NOTE 1.
3. ALL EXCAVATED ELEVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.
4. FILL AND ANY UNDERLYING PEAT / SOFT ORGANIC SOIL SHALL BE REMOVED AT ALL FOUNDATION LOCATIONS AND REPLACED WITH GRANULAR BACKFILL OR LEAN CONCRETE.
5. ALL COMPACTED STRUCTURAL FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 10" AND COMPACTED TO A MINIMUM DENSITY EQUAL TO 95% OF MAXIMUM DRY DENSITY AS OBTAINED IN ACCORDANCE WITH ASTM D-1557.
6. NO MUD SLABS, FOOTINGS OR SLAB ON GRADE SHALL BE PLACED INTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST OR ICE.
7. ALL SUBGRADE AND MUD SLABS UNDER SLABS ON GRADE SHALL BE THOROUGHLY CLEANED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE".
2. STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS (UNLESS OTHERWISE NOTED):

STRUCTURAL SHAPES	A-992
PLATES AND ANGLES	A-36
STRUCTURAL TUBING	A-500 GRADE B
STRUCTURAL PIPE	A-53
ANCHOR BOLTS	F-1554 GRADE 36

3. TYPICAL BEAM CONNECTIONS SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, UNLESS OTHERWISE SHOWN. ALL FIELD CONNECTIONS, EXCEPT WHERE SHOWN WELDED, SHALL BE BOLTED WITH 3/4"DIAMETER HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325N, UNLESS NOTED OTHERWISE. CONNECTIONS SHALL BE DESIGNED FOR 60% OF THE TOTAL ALLOWABLE UNIFORM LOAD FOR THE BEAM DERIVED FROM THE TABLE OF UNIFORM LOAD CONSTANTS FOR NON-COMPOSITE BEAMS IN THE AISC MANUAL. CALCULATIONS SEALED BY A STRUCTURAL ENGINEER LICENSED IN ILLINOIS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
4. ALL WELDING ELECTRODES SHALL BE E-70XX. ALL SHOP AND FIELD WELDING SHALL BE DONE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION", AND SHALL BE DONE BY CERTIFIED WELDERS.
5. PROVIDE GOVERNMENT ANCHORS FOR BEAMS BEARING ON MASONRY WHERE ANCHOR BOLTS OR OTHER ANCHORAGE IS NOT SPECIFIED.
6. ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS.
7. STAIR DESIGN CALCULATIONS, PREPARED AND SEALED BY A REGISTED STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR REVIEW ALONG WITH THE NECESSARY SHOP DRAWINGS.
8. STEEL COLUMNS AND BEAMS ABUTTING MASONRY SHALL HAVE APPROVED ADJUSTABLE MASONRY ANCHORS, WITH SPACING NOT EXCEEDING 16" VERTICAL AND 32" HORIZONTAL, UNLESS OTHERWISE SHOWN.
9. ALL PORTIONS OF STEEL COLUMNS EXPOSED TO EARTH SHALL HAVE A HEAVY COAT OF ASPHALTIC PAINT. SEE ARCHITECTURAL SPECIFICATIONS FOR REQUIREMENTS.
10. ALL STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF APPROVED SHOP PAINT, AND FIELD PAINT AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
11. ALL PORTIONS OF STEEL COLUMNS EXPOSED TO EARTH SHALL HAVE A HEAVY COAT OF ASPHALTIC PAINT. SEE ARCHITECTURAL SPECIFICATIONS FOR REQUIREMENTS.

MASONRY

1. ALL BRICK AND BLOCK DESIGN AND CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" LATEST EDITION, ACI 530/ASCE 5, AND "SPECIFICATIONS FOR MASONRY STRUCTURES" LATEST EDITION, ASC 530.1/ASCE 6.

   MORTAR: ASTM C-270. TYPE S - MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS U.N.O.

   GROUT: ASTM C-476, MINIMUM COMPRESSIVE STRENGTH = 2750 PSI AT 28 DAYS

   COMPRESSIVE STRENGTH OF STRUCTURAL MASONRY f'm SHALL BE 2000PSI MIN.

2. PROVIDE A POSITIVE MECHANICAL CONNECTION FOR ALL MASONRY TO BUILDING ROOF STRUCTURE.
3. PROVIDE STANDARD DUR-O-WALL OR EQUIVALENT REINFORCEMENT AT EVERY SECOND BLOCK COURSE IN ALL WALLS UNLESS NOTED OTHERWISE. INSTALL JOINT REINFORCMENT IN THE FIRST AND SECOND BED JOINTS, EIGHT (8) INCHES O.C. IMMEDIATELY ABOVE AND BELOW OPENINGS, EXTEND REINFORCMENT TWO (2) FEET BEYOND JAMBS, MININUM.
4. MASONRY CONTROL JOINTS ARE REQUIRED (INTERIOR AND EXTERIOR) AT A MAXIMUM HORIZONTAL SPACING BETWEEN JOINTS OF 30'-0". SEE THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS.
5. CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN THE MORTAR OR GROUT MIX, EXCEPT WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO ANTI-FREEZE COMPOUNDS SHALL BE USED TO LOWER THE MORTARS FREEZING POINT.
6. NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40°F, UNLESS THE RECOMMENDATIONS IN "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ASCE 6 ARE STRICTLY FOLLOWED. THE SPECIFICATIONS FOR LAYING MASONRY IN HOT WEATHER, CONTAINED IN THE SAME REFERENCE SHALL ALSO BE STRICALY FOLLOWED.
7. MASONRY WALLS SHALL BE BRACED TO WITHSTAND A MINIMUM HORIZONTAL LOAD OF 20PSF DURING THEIR ERECTION, AND UNTIL THEIR DESIGN SUPPORTS ARE IN PLACE.
8. ALL LINTELS, UNLESS OTHERWISE NOTED, SHALL BEAR ON SOLID, OR GROUTED MASONRY, MINIMUM 2'-8" WIDE X 2'-0" DEEP, EACH END, SEE THE STRUCTURAL DETAILS FOR ADDITIONAL INFORMATION. PROVIDE ANCHORS AS REQUIRED.
9. MISCELLANEOUS LINTELS: STEEL LINTELS FOR MASONRY OPENINGS NOT SHOWN ON DRAWINGS SHALL CONFORM TO THE FOLLOWING:

OPENINGS UPTO 4'-0"	1-L4x3½x¼ LLV PER 4" WALL THICKNESS
OPENINGS 4'-0" TO 6'-0"	1-L5x3½x‡ LLV PER 4" WALL THICKNESS

10. ALL SUCH LINTELS TO BEAR 8" MINIMUM ON SOLID OR GROUTED MASONRY EACH END. SEE ABOVE FOR ADDITIONAL BEARING REQUIREMENTS. VERIFY ALL ROUGH OPENING SIZES AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
11. ALL MASONRY WALLS SHALL BE CONSTRUCTED IN A RUNNING BOND PATTERN AS DESCRIBED BY ACI 530 CURRENT ADDITION UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS.

WOOD

1. NAILS, LAG SCREWS, WOOD SCREWS AND OTHER FASTENER HARDWARE SHALL CONFORM TO NDS RECOMMENDATIONS. NAILS SHALL CONFORM TO ASTM F1667. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1-1981. LAG SCREWS SHALL CONFORM TO ANSI/ASME B18.2.1-1981.
2. THE MOISTURE CONTENT OF ALL WOOD MATERIALS SHALL BE LESS THAN 19 PERCENT. WOOD MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIES AND GRADES ALONG WITH THE BASIC DESIGN VALUES SHOWN:
   A. SAWN LUMBER, DOUGLAS FIR-LARCH, NO 1, Fb = 1,000 PSI, Fv = 180 PSI, Fc = 1,500 PSI, E = 1,800,000 PSI
   A1. PARALLAM PSL : TRUSJOIST OR EQUAL: Fb = 2900 PSI; E= 2000,000PSI
   B. PLYWOOD - APA PERFORMANCE - RATED SHEATHING:
   B1. ROOF SHEATHING (1/2" MIN. PLYWD, 5/8" MIN. OSB), STRUCT.1 - EXTERIOR, 24/16 SPAN RATED.
   B2. SUBFLOORS (3/4" MIN. PLYWD/OSB), STRUCTURAL 1 - EXPOSURE 1, T & G STURD-I-FLOOR.
   B3. WALL SHEATHING (1/2" MIN. PLYWD/OSB), STRUCTURAL 1 - EXTERIOR.
3. I-JOISTS, ROOF TRUSSES, OPEN-WEB FLOOR TRUSSES AND ALL OTHER PRE-FABRICATED MEMBERS SHALL BE DESIGNED FOR THE REQUIRED LOADS BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER. PRE-FABRICATED ROOF AND FLOOR MEMBERS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH WTCA "METAL PLATE WOOD TRUSS HANDBOOK". SUBMIT SEALED DRAWINGS AND CALCULATIONS TO THE ARCHITECT UPON REQUEST.
4. ALL FIELD CONSTRUCTION SHALL BE IN A CLEAN WORKMANLIKE MANNER. FIELD MODIFICATIONS SHALL HAVE ROUNDED CORNERS AND SHALL AVOID NOTCHING, EXCESSIVE OVER-CUTTING OR OTHER DEFECTS WHICH WILL REDUCE THE LOAD CARRYING CAPABILITIES OF THE MEMBERS. ALL HOLES SHALL BE LIMITED TO 1/3 THE MEMBER DEPTH IN SIZE AND SHALL BE LOCATED WITHIN THE MIDDLE 1/3 DEPTH OF THE MEMBER. ADDITIONALLY, ALL HOLES SHALL BE LOCATED IN THE MIDDLE 1/3 OF THE SUPPORTED SPAN. FIELD-CUTTING OF ENGINEERED WOOD PRODUCTS SHALL BE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.
5. IN ROOF AND FLOOR JOIST CONSTRUCTION PROVIDE SOLID BLOCKING OR 1x3 X-BRACING AT 7'-0" O.C. MAXIMUM OR PROVIDE APPROVED METAL BRIDGING. PROVIDE SOLID BLOCKING AT 24-IN O.C. BETWEEN JOISTS UNDER ALL PERPENDICULAR WALLS. PROVIDE DOUBLE STUDS ADJACENT TO ALL WINDOW AND DOOR OPENINGS.
6. INSTALL PLYWOOD AND OSB PANELS WITH THE LONG DIMENSION PERPENDICULAR TO THE SUPPORTING JOISTS AND SPANNING ACROSS A MINIMUM OF 3 SUPPORTS. PLYWOOD OR OSB ROOF AND FLOOR DIAPHRAGMS SHALL BE INSTALLED IN THE CASE 1 ORIENTATION AS DEFINED IN THE APA PUBLICATION E30, "RESIDENTIAL & COMMERCIAL DESIGN/CONSTRUCTION GUIDE" WITH STAGGERED JOINTS. FLOOR AND ROOF DIAPHRAGMS SHALL BE GLUED AND SCREWED.
7. PLYWOOD PANEL EDGES SHALL BEAR ON THE FRAMING SUPPORT MEMBERS AND BUTT ALONG THEIR CENTER LINES. NAILS SHALL BE PLACED NOT LESS THAN 3/8" IN FROM THE PANEL EDGE. PLYWOOD SHEATHING SHALL BE FASTENED TO SUPPORTS w/ 10d NAILS SPACED AT 6" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
8. DO NOT EMBED WOOD MEMBERS IN CONCRETE.
9. ALL BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307. USE STEEL WASHERS BETWEEN HEAD OF BOLT OR LAG SCREW AND WOOD. USE STEEL WASHERS BETWEEN NUT AND WOOD.
10. MAKE NO SUBSTITUTIONS OF ANY ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SPECIFIED ON ANY FRAMING PLANS WITH OUT THE DIRECT WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER AND ARCHITECT.
11. THE QUANTITY, SIZE AND SPACING OF FASTENERS SHALL CONFORM TO TABLE 2304.9.1 OF THE IBC 2012. NAILS AND BOLTS SHALL NOT BE COMBINED IN THE SAME CONNECTION, UNLESS OTHERWISE NOTED.
12. WOOD IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER SHALL BE PRESSURE-TREATED. SILL PLATES ON CONCRETE OR MASONRY SHALL ALSO HAVE A SILL SEALER.
13. FASTENERS FOR EXTERIOR CONSTRUCTION, FOR PRESSURE TREATED WOOD MEMBERS, OR IN CONTACT WITH CEDAR FRAMING OR OTHERWISE EXPOSED TO A CORROSIVE ENVIRONMENT SHALL BE OF A NON-REACTIVE MATERIAL OR SHALL HAVE AN APPROVED PROTECTIVE COATING.
14. WOOD SCREWS OF THE SAME OR GREATER DIAMETER AND LENGTH MAY BE SUBSTITUTED FOR NAILS IN HORIZONTAL AND VERTICAL WALL DIAPHRAGMS. NAILS MAY NOT BE SUBSTITUTED FOR SCREWS UNLESS APPROVED BY THE ARCHITECT/ENGINEER.
15. WOOD MATERIALS SHALL NOT BE STORED DIRECTLY ON GROUND. ALL WOOD MATERIALS SHALL BE STORED FLAT AND SHALL MAINTAIN THE DRY MOISTURE STATE AND CORRECT SHAPE OF THE WOOD, PLYWOOD, OSB, WOOD FRAMING OR ANY OTHER WOOD MATERIALS WHICH HAVE BEEN ALLOWED TO BECOME WET OR MISSHAPEN SHALL BE REMOVED FROM THE JOB SITE AND REPLACED WITH DRY MATERIALS AT NO EXPENSE TO THE OWNER.
16. BOTTOM PLATES (SILL PLATES) ON CONCRETE SHALL BE ANCHORED BY 1/2" DIAMETER J-BOLTS WITH 9" MINIMUM EMBEDMENT AT 48-IN O.C. OR APPROVED DRILLED-IN ANCHORS. WALLS ON WOOD FRAMING SHALL BE ANCHORED USING SIMPSON TIE (ST) OR APPROVED EQUAL ST-HD2A AT CORNERS AND ST-C516 AT 48-IN O.C. CONNECTORS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
17. WOOD NAILERS ON STEEL SHALL BE ATTACHED WITH HILTI DNI52P8 POWDER-ACTUATED FASTENERS OR APPROVED EQUAL AT ENDS & 48" O.C. ANCHORS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
18. STUDS, POST, JOISTS, BEAMS OR OTHER HORIZONTAL OR VERTICAL STRUCTURAL MEMBERS SHALL BE SINGLE, CONTINUOUS MEMBERS WITH NO SPLICES BETWEEN POINTS OF SUPPORT.

PRECAST CONCRETE

1. THE PRECAST CONCRETE MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST STRUCTURAL ELEMENTS SHOWN IN THE DRAWINGS, AND SHALL SUBMIT CALCULATIONS FOR REVIEW THAT ARE SEALED BY A STRUCTURAL ENGINEER LICENSED IN ILLINOIS. ALL HEADERS REQUIRED AT OPENINGS SHALL BE DESIGNED AND FURNISHED BY THE PRECAST MANUFACTURER.
2. ALL PRECAST CONCRETE SHALL CONFORM TO ACI 318, THE ACI CODE OF STANDARD PRACTICE AND TO PCI PRECAST AND PRESTRESSED CONCRETE DESIGN HANDBOOK RECOMMENDATIONS.
3. CONCRETE FOR PRECAST ELEMENTS SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3500PSI AT 7 DAYS AND 5000PSI AT 28 DAYS. CONCRETE TOPPING SHALL BE BONDED UNLESS OTHERWISE NOTED AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000PSI.
4. PRECAST CONCRETE FLOOR PLANKS SHALL NOT EXCEED THE FOLLOWING WEIGHTS: 57PSF FOR 8" PLANKS; 61PSF FOR 10" PLANKS; AND 79PSF FOR 12" PLANKS.
5. PRECAST CONCRETE PLANKS SHALL BE DESIGNED FOR VERTICAL AND LATERAL LOADS NOTED ON THIS DRAWING.
6. ENDS OF PRECAST PLANKS SHALL BE GROUTED AS REQUIRED WHERE MASONRY BEARING WALLS ARE SUPPORTED ON PLANKS. WHERE GROUT IS NOT REQUIRED BY DESIGN PROVIDE A MINIMUM OF 12" INSULATION TO SEAL THE ENDS OF ALL CELLS.
7. THE GENERAL CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF THE PRECAST WITH THE STEEL, MASONRY AND CONCRETE CONSTRUCTION AS APPLICABLE, AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE PRECAST LAYOUTS WITH THE WORK OF ALL TRADES.

PRE-ENGINEERED WOOD TRUSSES

1. WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT EDITIONS OF "DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE (TPI) AND "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" BY NATIONAL FOREST PRODUCTS ASSOCIATION, AND OTHER APPLICABLE STANDARDS AND PROCEDURES OF THE TRUSS PLATE INSTITUTE.
2. TRUSSES SHALL BE DESIGNED FOR THE CODE REQUIRED LIVE LOADS APPLIED TO THE TOP CHORD AS WELL AS THE FOLLOWING SUPERIMPOSED DEAD LOADS:

ROOF TRUSS:	
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD DEAD LOAD	10 PSF
FLOOR TRUSS:	
TOP CHORD DEAD LOAD	15 PSF
BOTTOM CHORD DEAD LOAD	5 PSF

3. IN ADDITION TO THE LOADS STATED ABOVE THE TRUSSES SHALL BE DESIGNED FOR ANY SNOW DRIFTING, MECHANICAL, AND/OR ANY SPECIAL LOAD CONDITIONS AS SHOWN ON STRUCTURAL PLANS AND AS REQUIRED BY THE INTERNATIONAL BUILDING CODE.
4. ROOF TRUSSES SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF L/360.
5. FLOOR TRUSSES SHALL BE DESIGNED FOR MAXIMUM LIVE LOAD DEFLECTION OF L/480.
6. FABRICATION, HANDLING, STORAGE, AND ERECTION SHALL BE IN ACCORDANCE WITH "TRUSS PLATE INSTITUTION" RECOMMENDED PRACTICES AND SHALL BE DONE IN A WORKMAN LIKE MANNER SO AS TO NOT DAMAGE THE TRUSSES. TRUSSES SHALL NOT BE CUT, ADDED ONTO OR ALTERED IN ANY WAY WITH OUT THE WRITTEN CONSENT OF THE TRUSS DESIGNER, ENGINEER, AND ARCHITECT.
7. WOOD TRUSS DESIGNER/SUPPLIER SHALL SUBMIT FORMAL STAMPED CALCULATIONS BY A REGISTERED ENGINEER IN THE STATE OF ILLINOIS FOR REVIEW BEFORE FABRICATION.
8. SUBMIT FIVE SETS OF TRUSS SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING TO THE ARCHITECT.
9. CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND TEMPORARY TRUSS BRACING REQUIREMENTS DURING ERECTION IN ACCORDANCE WITH TPI's COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, AND BRACING METAL PLATE CONNECTED WOOD TRUSSES (HIB-91 BOOKLET) AND THE CURRENT EDITION OF ANSI/TPI-1.
10. TRUSSES EXPOSED TO MOISTURE SHALL BE CONSTRUCTED OF PRESSURE TREATED WOOD AND GALVANIZED METAL PLATES.
11. DESIGN ROOF TRUSSES TO RESIST ALL WIND LOADS INCLUDING UPLIFT AS REQUIRED BY THE INTERNATIONAL BUILDING CODE 2009. MINIMUM NET UPLIFT = 10 PSF, 20 PSF AT CANOPIES & OVERHANGS.
12. ALL TRUSS TO TRUSS CONNECTIONS ARE TO BE DESIGNED, DETAILED, AND SUPPLIED BY THE TRUSS SUPPLIER.
13. TRUSS FABRICATOR SHALL FIELD VERIFY ALL SPAN DIMENSIONS BEFORE FABRICATING.

ABBREVIATIONS

ARCH.	ARCHITECTURAL
B	BOTTOM
CMU	CONCRETE MASONRY UNITS
CONC.	CONCRETE
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
EL.	ELEVATION
EOD.	EDGE OF DECK/GRATING
EWB	EACH WAY BOTTOM
EWT	EACH WAY TOP
FIN.	FINISHED
FLR	FLOOR
F.F.	FINISHED FLOOR
FTG.	FOOTING
G.C.	GENERAL CONTRACTOR
H.C.	HOLLOW CORE
HRS	HOURS
L	ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LG.	LONG
MAX.	MAXIMUM
MIN.	MINIMUM
NIC.	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
OWJ	OPEN WEB JOISTS
P.C.	PRECAST
PL.	PLATE
STD.	STANDARD
STL	STEEL
T	TOP
TCX	TOP CHORD EXTENSION
THK	THICK
TYP	TYPICAL
W/	WITH
W.W.F.	WELDED WIRE FABRIC
U.N.O.	UNLESS NOTED OTHERWISE

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER

EXP.11/30/2022

MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR:TAC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
+1 (708) 668-1360

- PROJECT DESCRIPTION: ROOF ACCESS PLATFORM AND LADDER
- PROJECT NAME: GARDEN STATION APARTMENTS
- ADDRESS: ARDMORE AVE. / VERMONT ST., VILLA PARK, IL

Issue Date: MAY 17 2016
Drawn By: BC

Sheet:
GENERAL NOTES

PROJECT NUMBER
1609

S-0.1

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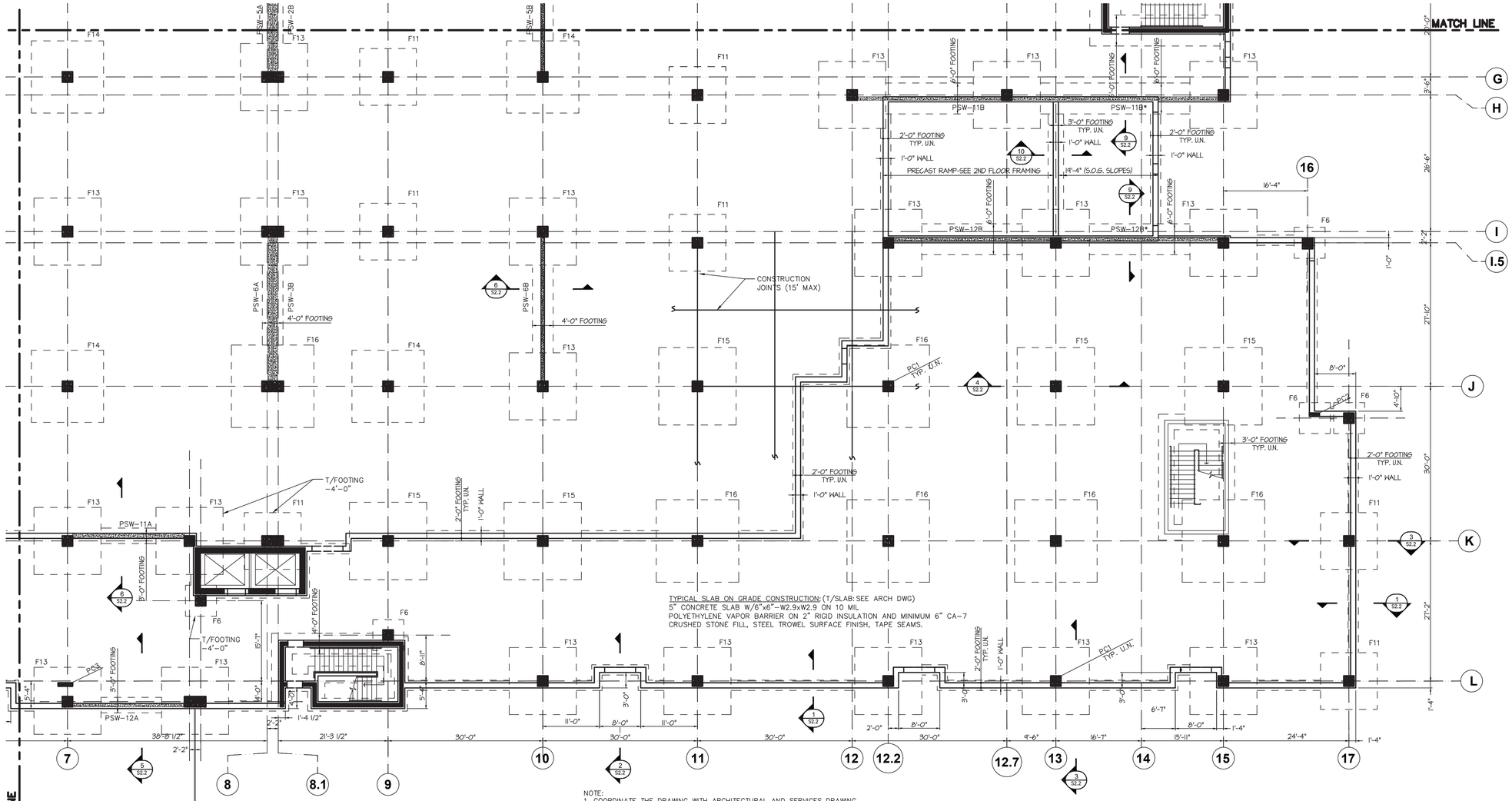


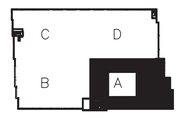
NOTE:
1. COORDINATE THE DRAWING WITH ARCHITECTURAL AND SERVICES DRAWING
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE
3. FOR GENERAL NOTES SEE SHEET S-0.1
4. FOR FOUNDATION DETAILS, SEE SHEET S-2.1 AND S-2.2
5. FOR CMU WALL DETAILS, SEE SHEET S-2.1
6. FOR FOOTING SIZES, REFER TO SHEET S-2.3
7. FOR PRECAST SHEAR WALL SCHEDULE, REFER TO SHEET S-2.3
8. FOR COL. SCHEDULE, SEE SHEET S-2.3
9. TOP OF FLOOR: EL. = +0'-0"
10. PROVIDE CONCRETE ENCASED GROUNDING ELECTRODES IN THE FOUNDATIONS IN ACCORDANCE WITH NEC 250-52 A (3).SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

FOUNDATION PLAN 1

SCALE: 3/32" = 1' - 0"

N

KEY PLAN



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EXP.11/30/2022

MILESTONE DATES:
Issued For Permit: April 16 2021
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PREPARED FOR TAC CONSTRUCTION BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
V: (708) 668-1380

PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
GARDEN STATION APARTMENTS

ADDRESS:
ARDMORE AVE / VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC

Sheet:
FOUNDATION PLAN PART A

PROJECT NUMBER
1609

S-1.1A

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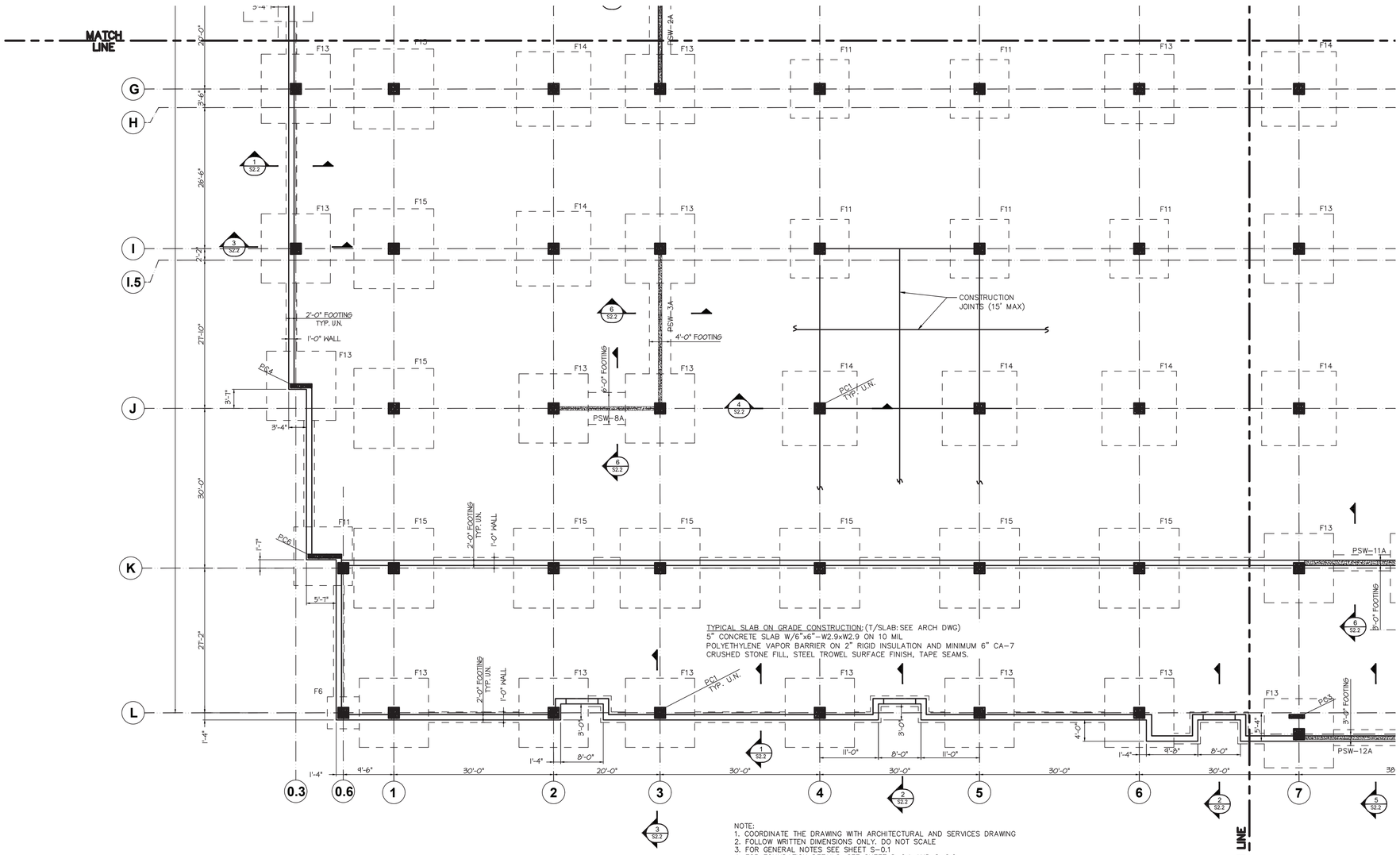

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FOUNDATION PLAN 1

SCALE: 3/32" = 1' - 0"

N

STATE OF ILLINOIS
DEEPAK GIDWANI
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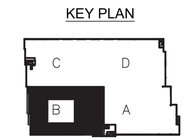
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

KEY PLAN



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PROJECT DESCRIPTION: FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME: GARDEN STATION APARTMENTS

ADDRESS: ARDMORE AVE./ VERMONT STREET VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC

Sheet: FOUNDATION PLAN PART B

PROJECT NUMBER 1609

S-1.1B

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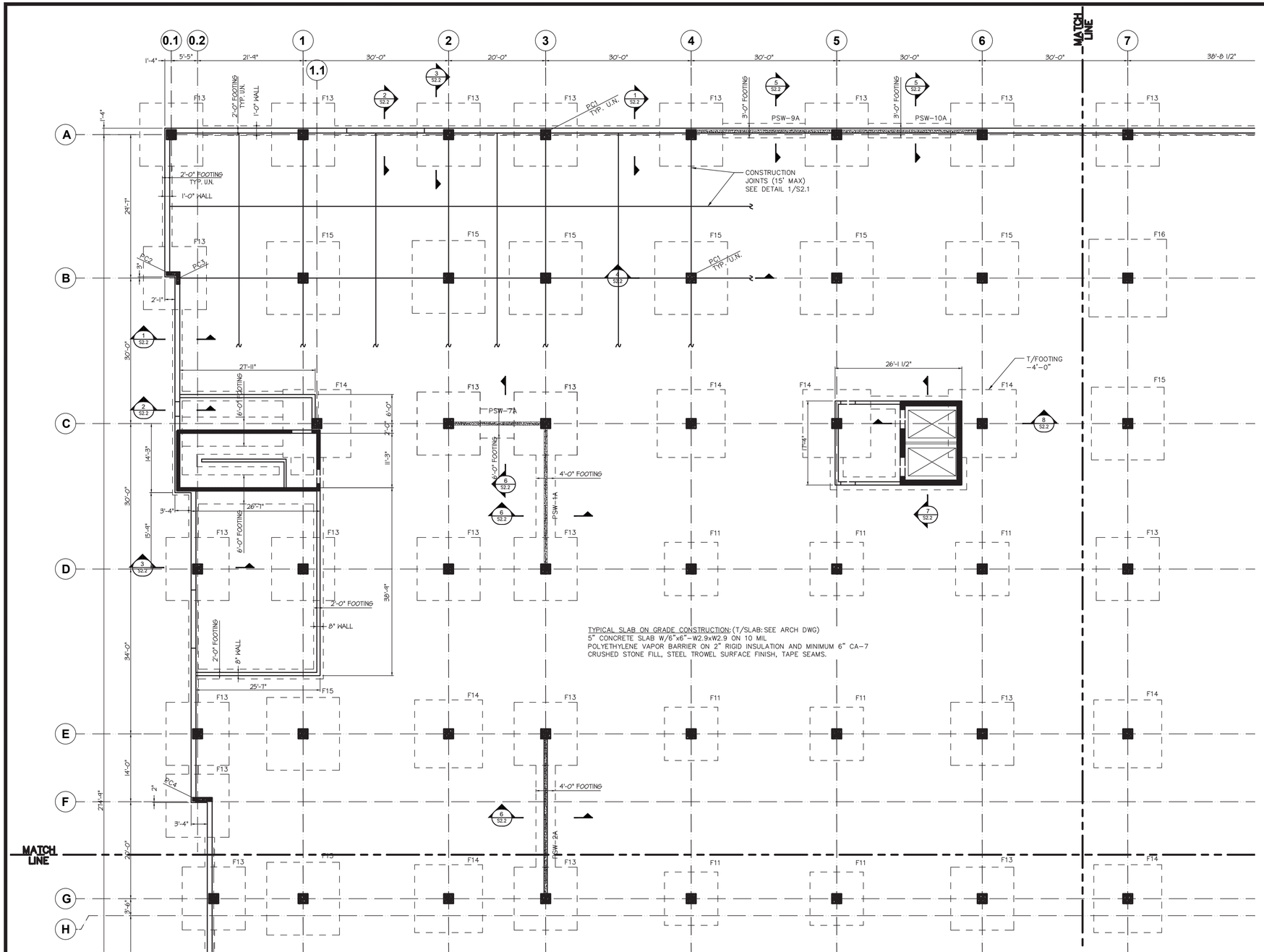

TYPICAL SLAB ON GRADE CONSTRUCTION: (T/SLAB: SEE ARCH DWG)
5" CONCRETE SLAB W/6"x6"-W2.9xW2.9 ON 10 MIL
POLYETHYLENE VAPOR BARRIER ON 2" RIGID INSULATION AND MINIMUM 6" CA-7
CRUSHED STONE FILL, STEEL TROWEL SURFACE FINISH, TAPE SEAMS.

NOTE:
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8. FOR COL. SCHEDULE, SEE SHEET S-2.3
9. TOP OF FLOOR: EL. = +0'-0"
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FOUNDATION PLAN 1

SCALE: 3/32" = 1' - 0"

N

STATE OF ILLINOIS
DEEPAK GIDWANI
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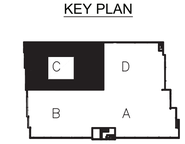
EXP.11/30/2022

KEY PLAN



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75 EXECUTIVE DR. SUITE 127 AURORA, IL 60504
V: (708) 668-1380

- PROJECT DESCRIPTION: FOUNDATION AND STRUCTURAL FRAMING PLANS
- PROJECT NAME: GARDEN STATION APARTMENTS
- ADDRESS: ARDMORE AVE./ VERMONT STREET VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC

Sheet:
FOUNDATION PLAN PART C

PROJECT NUMBER
1609

S-1.1C

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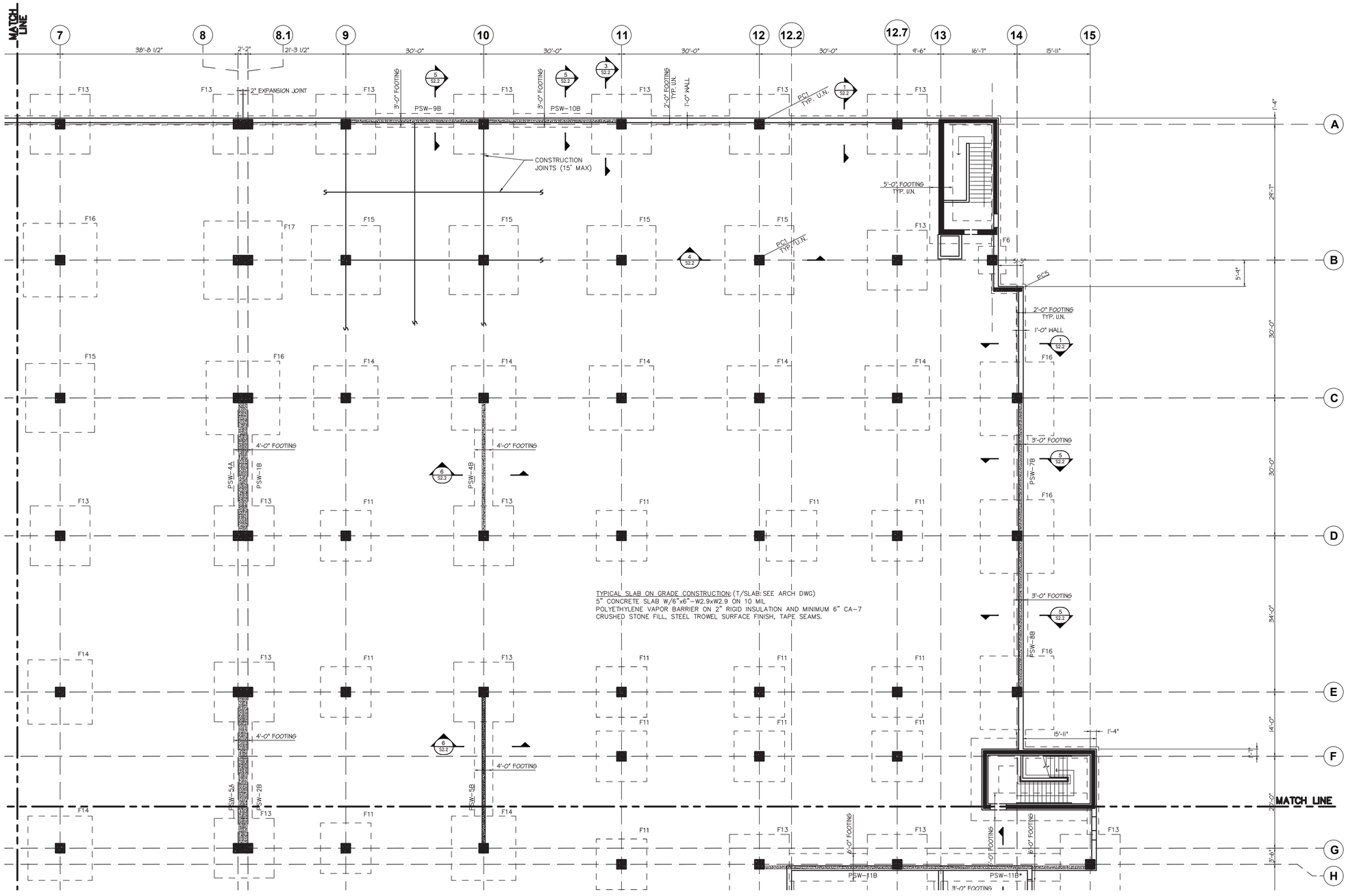

TYPICAL SLAB ON GRADE CONSTRUCTION: (T/SLAB: SEE ARCH DWG)
5" CONCRETE SLAB W/6"x6"-W2.9xW2.9 ON 10 MIL
POLYETHYLENE VAPOR BARRIER ON 2" RIGID INSULATION AND MINIMUM 6" CA-7
CRUSHED STONE FILL, STEEL TROWEL SURFACE FINISH, TAPE SEAMS.

FOUNDATION PLAN (1)

SCALE: 3/32" = 1' - 0"

N

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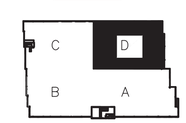
8. FOR COL. SCHEDULE, SEE SHEET S-2.3
9. TOP OF FLOOR: EL. = +0'-0"
10. PROVIDE CONCRETE ENCASED GROUNDING ELECTRODES IN THE FOUNDATIONS IN ACCORDANCE WITH NEC 250-52 A (3).SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

KEY PLAN



MILESTONE DATES:
Issued For Permit: April 16 2021
Revised Per Comments: July 06 2021

PREPARED FOR TAC CONSTRUCTION BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
V: (708) 668-1380

PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
GARDEN STATION APARTMENTS

ADDRESS:
ARDMORE AVE./ VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC

Sheet:
FOUNDATION PLAN PART D

PROJECT NUMBER
1609

S-1.1D

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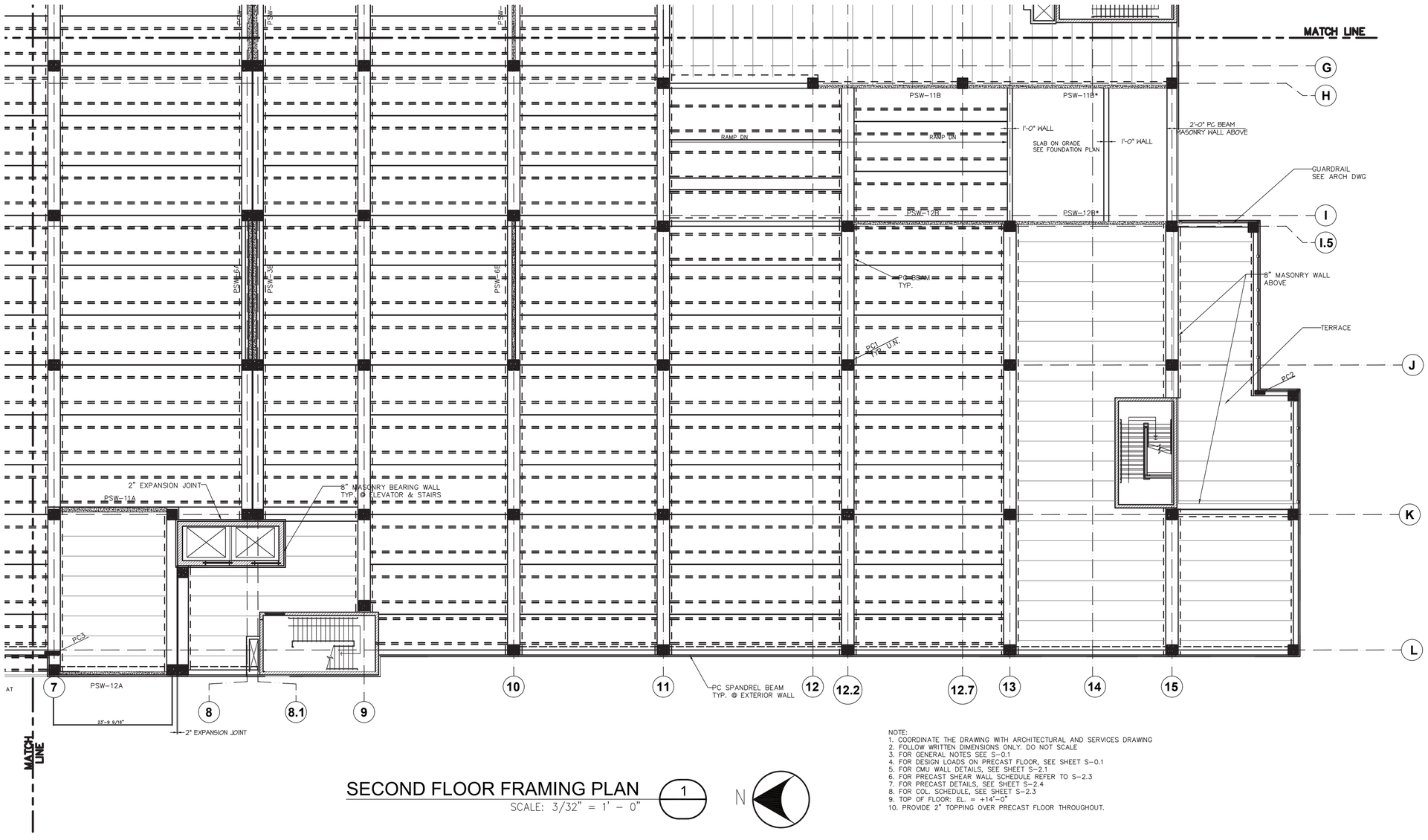


SECOND FLOOR FRAMING PLAN

SCALE: 3/32" = 1' – 0"

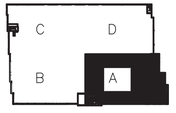
1

N

NOTE:
1. COORDINATE THE DRAWING WITH ARCHITECTURAL AND SERVICES DRAWING
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE
3. FOR GENERAL NOTES SEE S–0.1
4. FOR DESIGN LOADS ON PRECAST FLOOR, SEE SHEET S–0.1
5. FOR CMU WALL DETAILS, SEE SHEET S–2.1
6. FOR PRECAST SHEAR WALL SCHEDULE REFER TO S–2.3
7. FOR PRECAST DETAILS, SEE SHEET S–2.4
8. FOR COL. SCHEDULE, SEE SHEET S–2.3
9. TOP OF FLOOR: EL. = +14'–0"
10. PROVIDE 2" TOPPING OVER PRECAST FLOOR THROUGHOUT.

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

KEY PLAN



MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR TAC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127 AURORA, IL 60504
V: (708) 668-1380

PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
GARDEN STATION APARTMENTS

ADDRESS:
ARDMORE AVE / VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: -
Drawn By: PRC

Sheet:
2ND FLR.
FRAMING PLAN
PART A

PROJECT NUMBER
1609

S-1.2A

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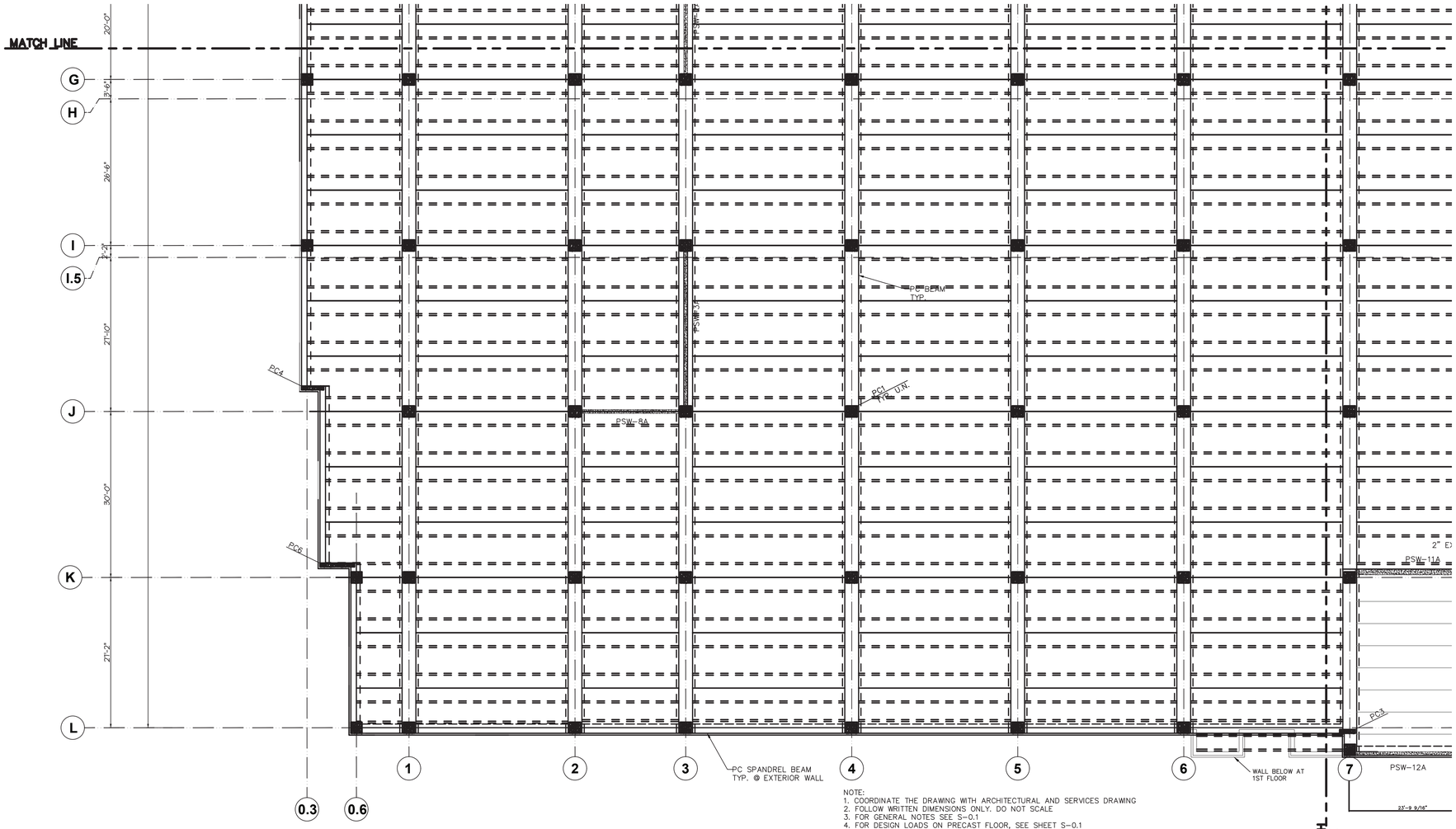

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8. FOR COL. SCHEDULE, SEE SHEET S-2.3
9. TOP OF FLOOR: EL. = +14'-0"
10. PROVIDE 2" TOPPING OVER PRECAST FLOOR THROUGHOUT.

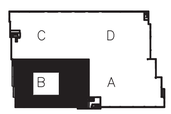
SECOND FLOOR FRAMING PLAN (1)

SCALE: 3/32" = 1' - 0"

N

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

KEY PLAN



MILESTONE DATES:
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April 16 2021

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BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
V: (708) 668-1380

■ PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

■ PROJECT NAME:
GARDEN STATION APARTMENTS

■ ADDRESS:
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VILLA PARK, ILLINOIS

Issue Date: -
Drawn By: PRC

Sheet:
2ND FLR.
FRAMING PLAN
PART B

PROJECT NUMBER
1609

S-1.2B

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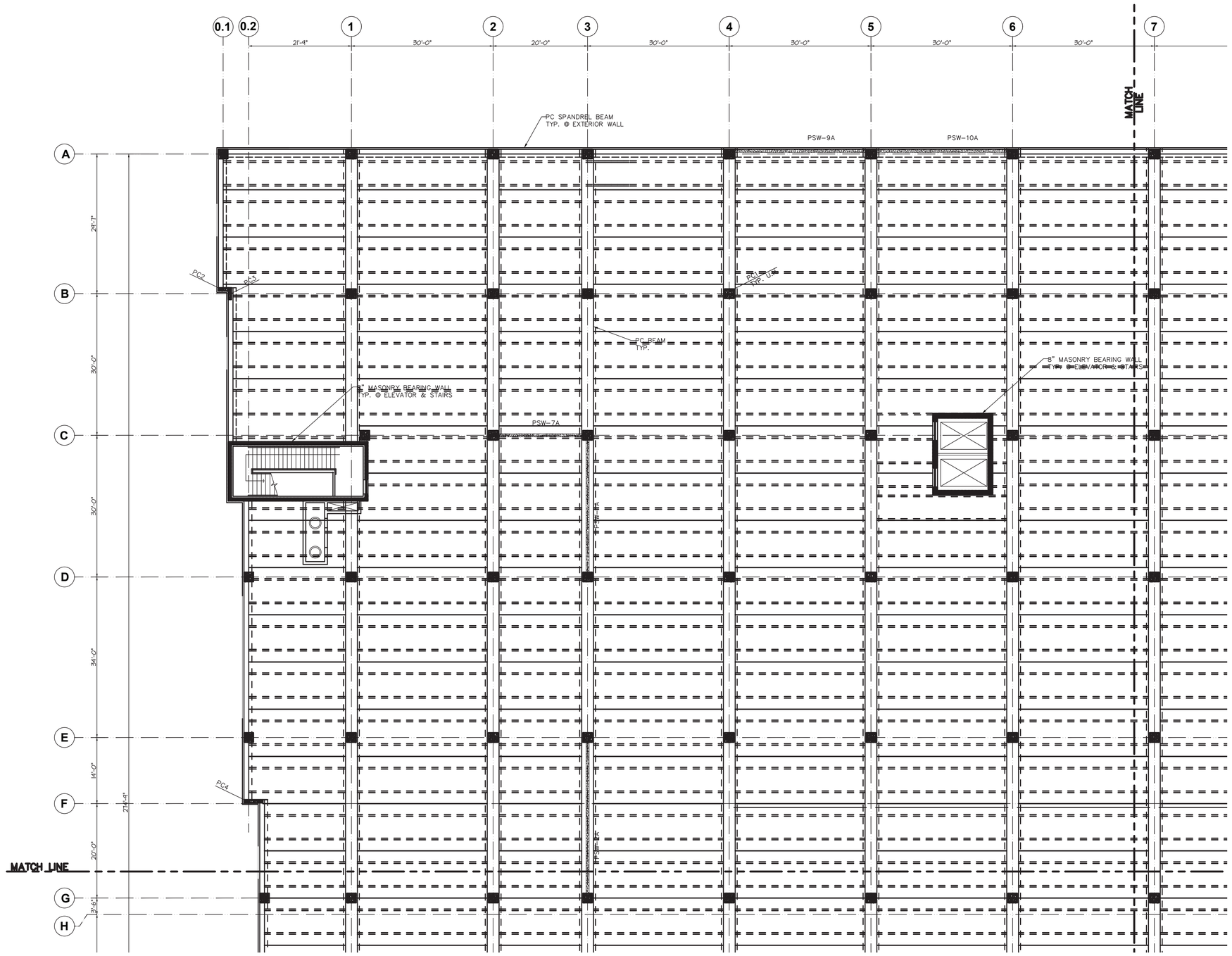

SECOND FLOOR FRAMING PLAN

1

SCALE: 3/32" = 1' - 0"

N

NOTE:
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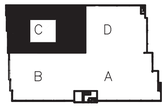

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April 16 2021

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75 EXECUTIVE DR. SUITE 127 AURORA, IL 60504
V: (708) 668-1380

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PROJECT NAME:
GARDEN STATION APARTMENTS

ADDRESS:
ARDMORE AVE./ VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: -
Drawn By: PRC

Sheet:
2ND FLR.
FRAMING PLAN
PART C

PROJECT NUMBER
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S-1.2C

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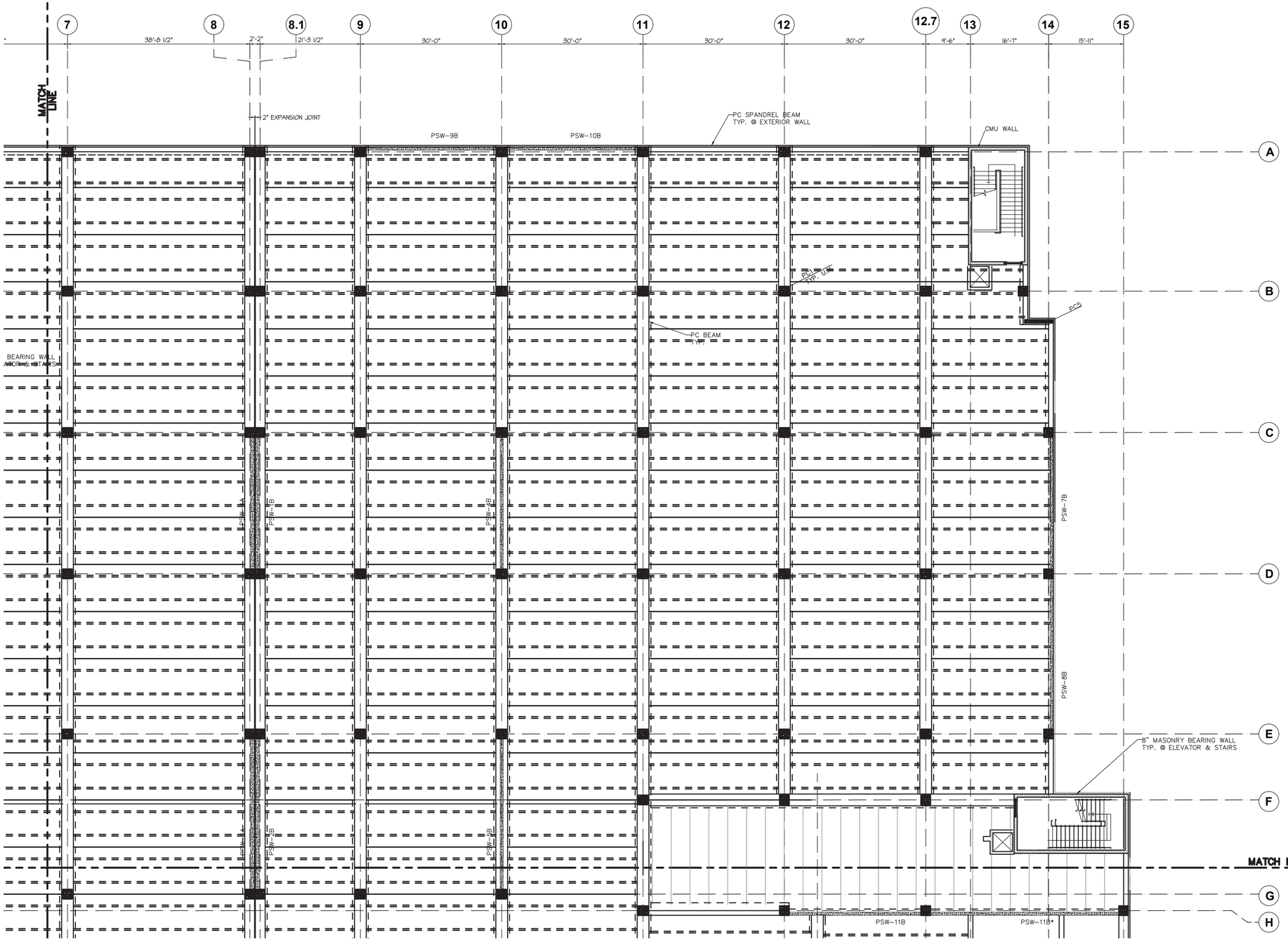

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7. FOR PRECAST DETAILS, SEE SHEET S-2.4
8. FOR COL. SCHEDULE, SEE SHEET S-2.3
9. TOP OF FLOOR: EL. = +14'-0"
10. PROVIDE 2" TOPPING OVER PRECAST FLOOR THROUGHOUT.

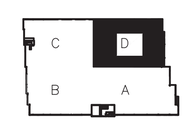
SECOND FLOOR FRAMING PLAN (1)

SCALE: 3/32" = 1' - 0"

N

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

KEY PLAN



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April 16 2021

PREPARED FOR TAC CONSTRUCTION BY

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75 EXECUTIVE DR. SUITE 127 AURORA, IL 60504
V: (708) 668-1380

PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
GARDEN STATION APARTMENTS

ADDRESS:
ARDMORE AVE./ VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: -
Drawn By: PRC

Sheet:
2ND FLR. FRAMING PLAN PART D

PROJECT NUMBER
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S-1.2D

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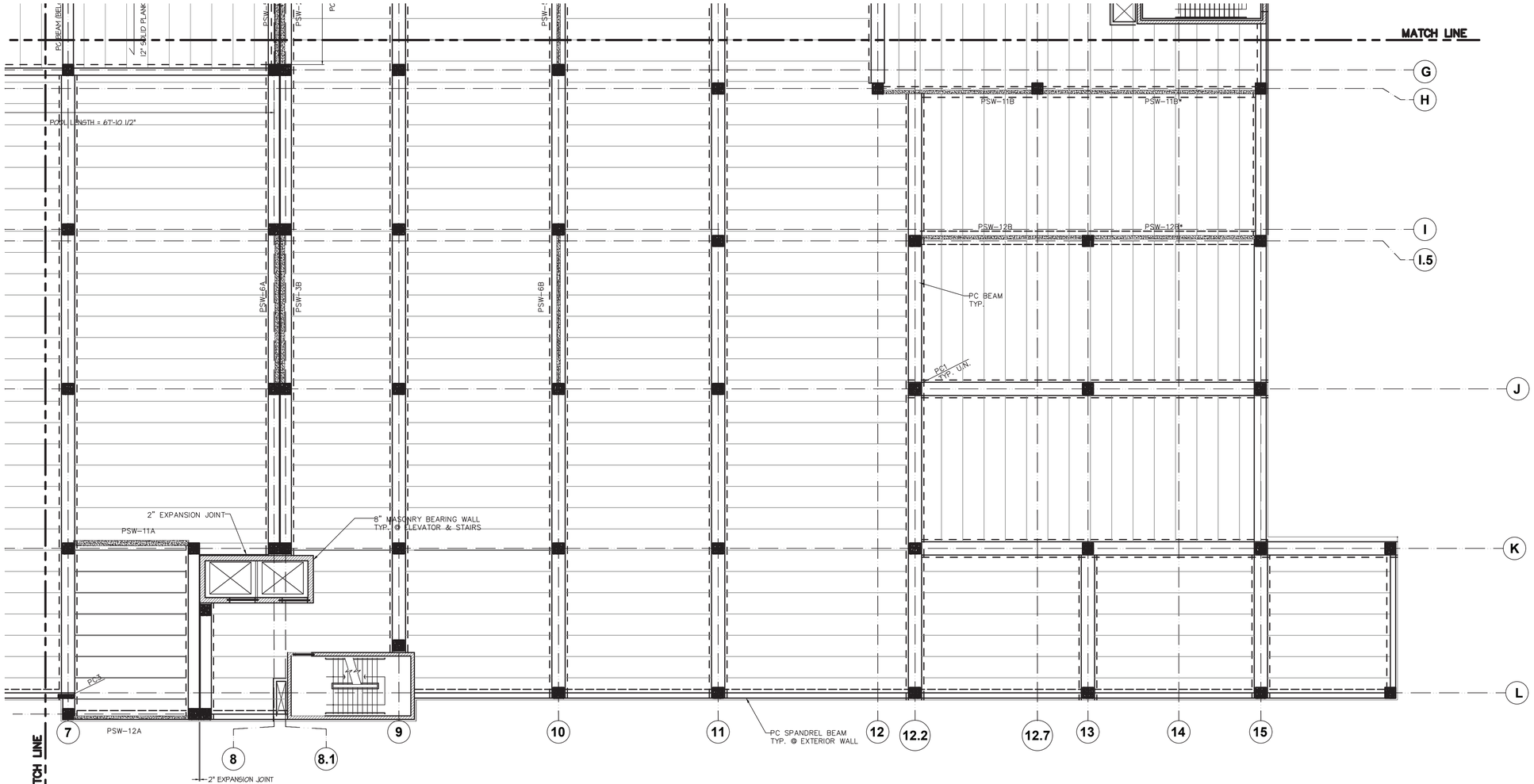

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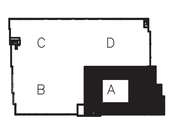
3. FOR GENERAL NOTES SEE S-0.1
4. FOR DESIGN LOADS ON PRECAST FLOOR, SEE SHEET S-0.1
   FOR LINE LOADS AND POINT LOADS AT 3RD FLOOR SEE SHEET S-1.6
5. FOR CMU WALL DETAILS, SEE SHEET S-2.1
6. FOR PRECAST SHEAR WALL SCHEDULE, REFER TO S-2.3
7. FOR PRECAST DETAILS, SEE SHEET S-2.4
8. FOR COL. SCHEDULE, SEE SHEET S-2.3
9. TOP OF FLOOR: EL. = +24'-4"
10. PROVIDE 2" MIN. TOPPING OVER PRECAST FLOOR THROUGHOUT. SLOPE TOPPING PER ARCHITECTURAL PLANS.

THIRD FLOOR FRAMING PLAN (1)

SCALE: 3/32" = 1' - 0"

N

KEY PLAN



STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR:
TAC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
M: (708) 668-1360

PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
GARDEN STATION APARTMENTS

ADDRESS:
ARDMORE AVE / VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: -
Drawn By: PRC

Sheet:
3RD. FLR. FRAMING PLAN PART A

PROJECT NUMBER
1609

S-1.3A

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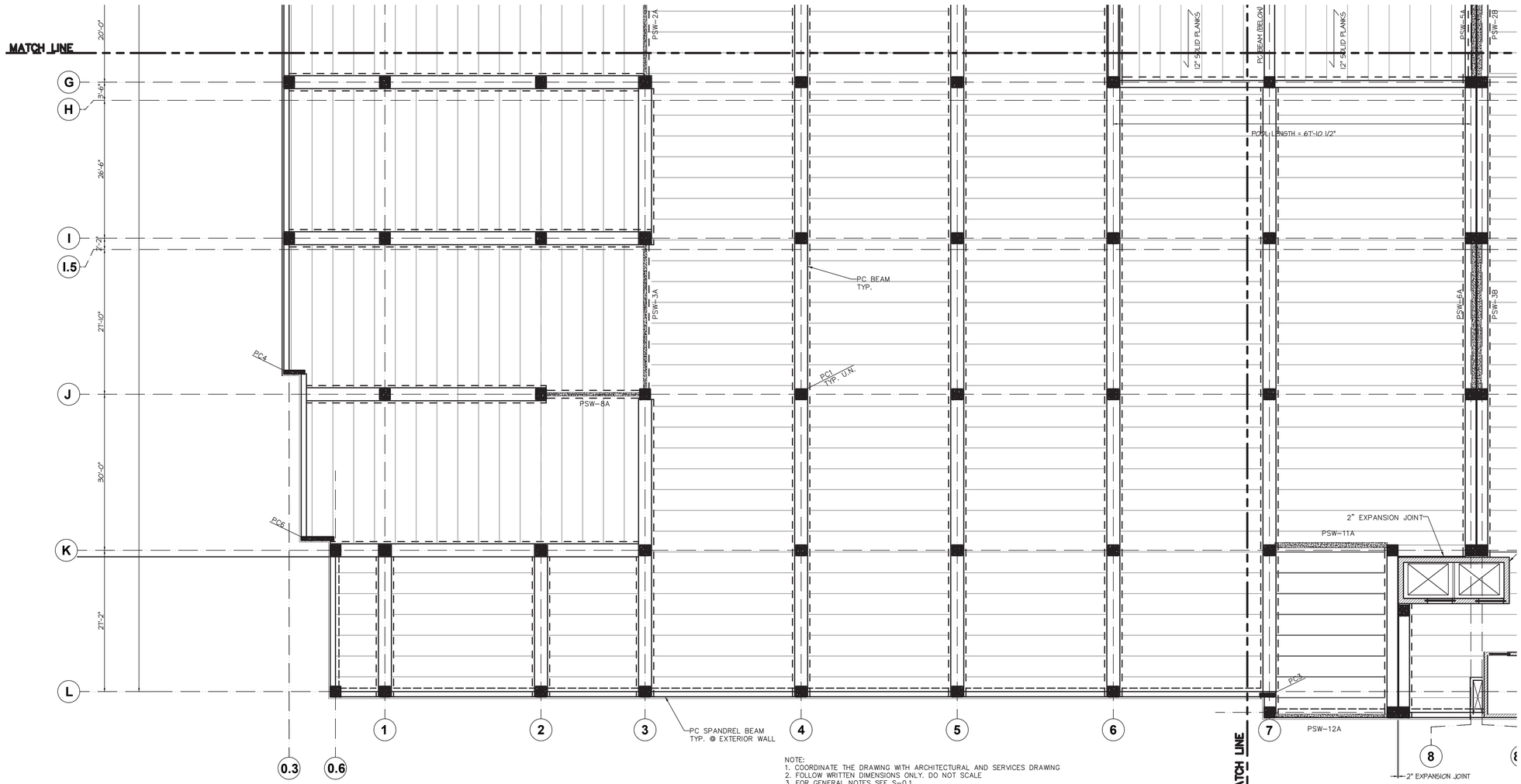

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9. TOP OF FLOOR: EL. = +24'-4"
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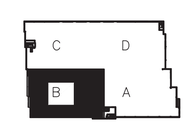
THIRD FLOOR FRAMING PLAN (1)

SCALE: 3/32" = 1' - 0"

N

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

KEY PLAN



MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR TAC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 222 AURORA, IL 60504
V: (708) 668-1380

PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
GARDEN STATION APARTMENTS

ADDRESS:
ARDMORE AVE / VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: -
Drawn By: PRC

Sheet:
3RD FLR.
FRAMING PLAN
PART B

PROJECT NUMBER
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S-1.3B

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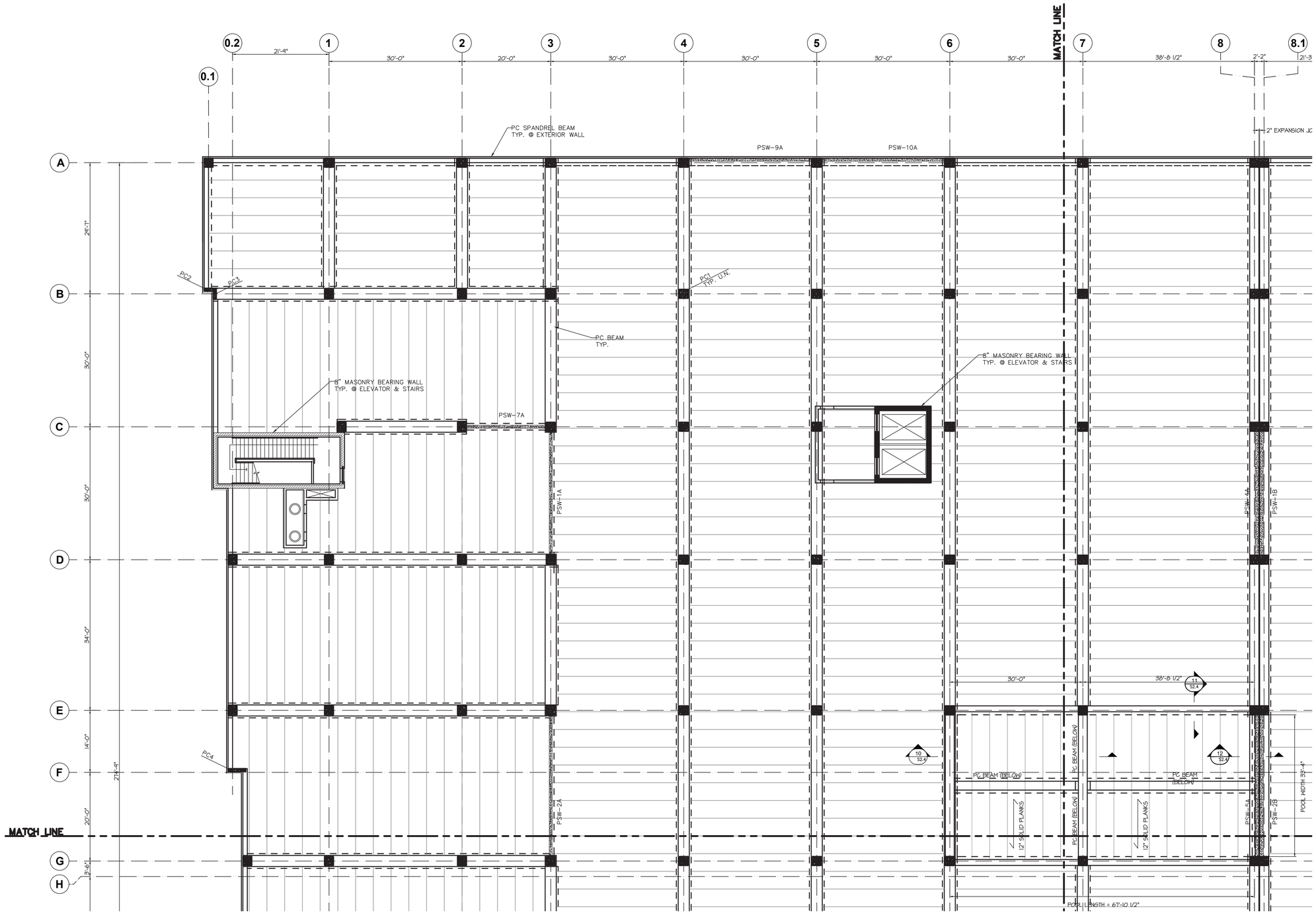

THIRD FLOOR FRAMING PLAN

1

SCALE: 3/32" = 1' - 0"

N

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5. FOR CMU WALL DETAILS, SEE SHEET S-2.1
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7. FOR PRECAST DETAILS, SEE SHEET S-2.4
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STATE OF ILLINOIS
DEEPAK GIDWANI
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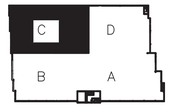

MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR TAC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
V: (708) 668-1380

- PROJECT DESCRIPTION:
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- PROJECT NAME:
  GARDEN STATION APARTMENTS
- ADDRESS:
  ARDMORE AVE./ VERMONT STREET
  VILLA PARK, ILLINOIS

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3RD FLR.
FRAMING PLAN
PART C

PROJECT NUMBER
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S-1.3C

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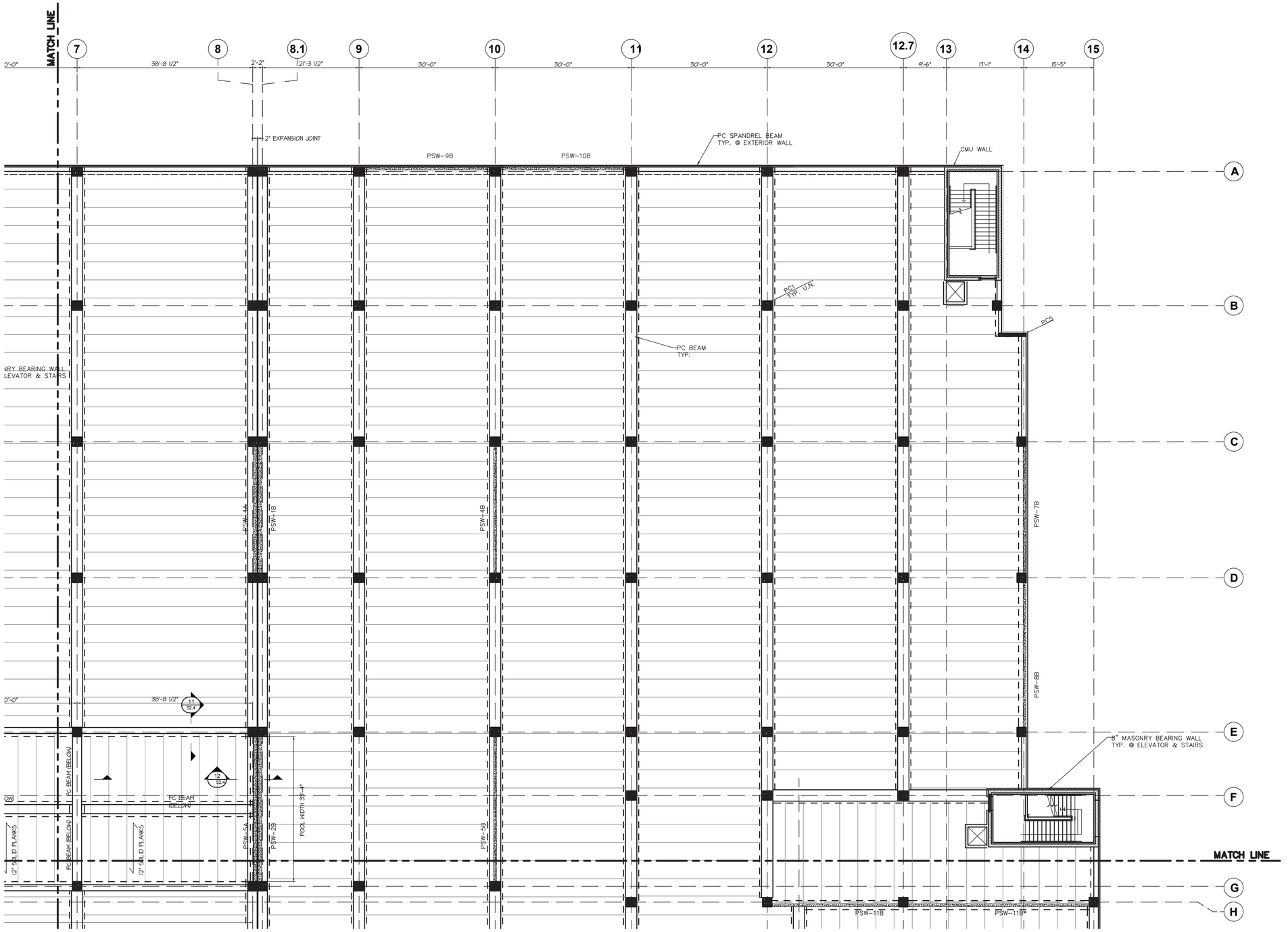

THIRD FLOOR FRAMING PLAN

1

SCALE: 3/32" = 1' - 0"

N

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7. FOR PRECAST DETAILS, SEE SHEET S-2.4
8. FOR COL. SCHEDULE, SEE SHEET S-2.3
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STATE OF ILLINOIS
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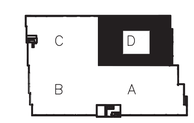

MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR TAC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 122 AURORA, IL 60504
V: (708) 668-1380

PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
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ADDRESS:
ARDMORE AVE./ VERMONT STREET
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Issue Date: -
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Sheet:
3RD FLR.
FRAMING PLAN
PART D

PROJECT NUMBER
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S-1.3D

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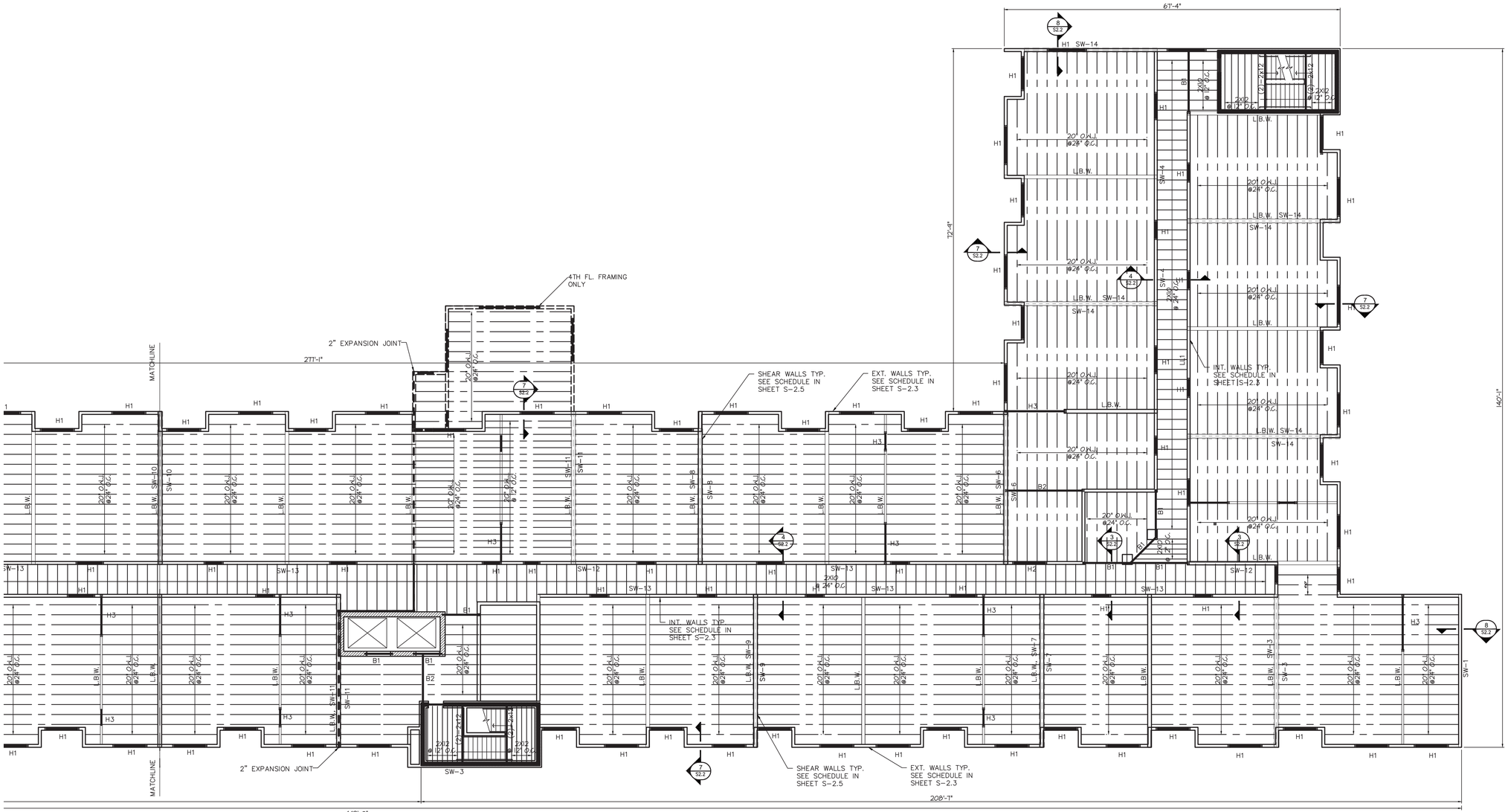

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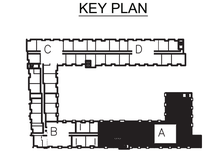
5. FOR CMU WALL DETAILS, SEE SHEET S-2.1
6. FOR SHEAR WALL SCHEDULE REFER TO S-2.5
7. FOR PRECAST DETAILS, SEE SHEET S-2.4
8. FOR COL. SCHEDULE, SEE SHEET S-2.3
9. FOR HEADER AND BEAM SIZES, SEE SHEET S-2.5
10. FOR CORRIDOR, EXT. AND DEMISING WALL SCHEDULE, SEE S-2.3
11. TOP OF FLOOR ELEVATIONS:
    4TH FL. EL. = +34'-4"
    5TH FL. EL. = +44'-4"
    6TH FL. EL. = +54'-4"
    7TH FL. EL. = +64'-4"

4TH, 5TH, 6TH AND 7TH FLOORS
TYP. FL. FRAMING PLAN (1)
SCALE: 3/32" = 1' - 0"

N

KEY PLAN



STATE OF ILLINOIS
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Sheet:
TYP. FLOOR FRAMING PLAN PART A

PROJECT NUMBER
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S-1.4A

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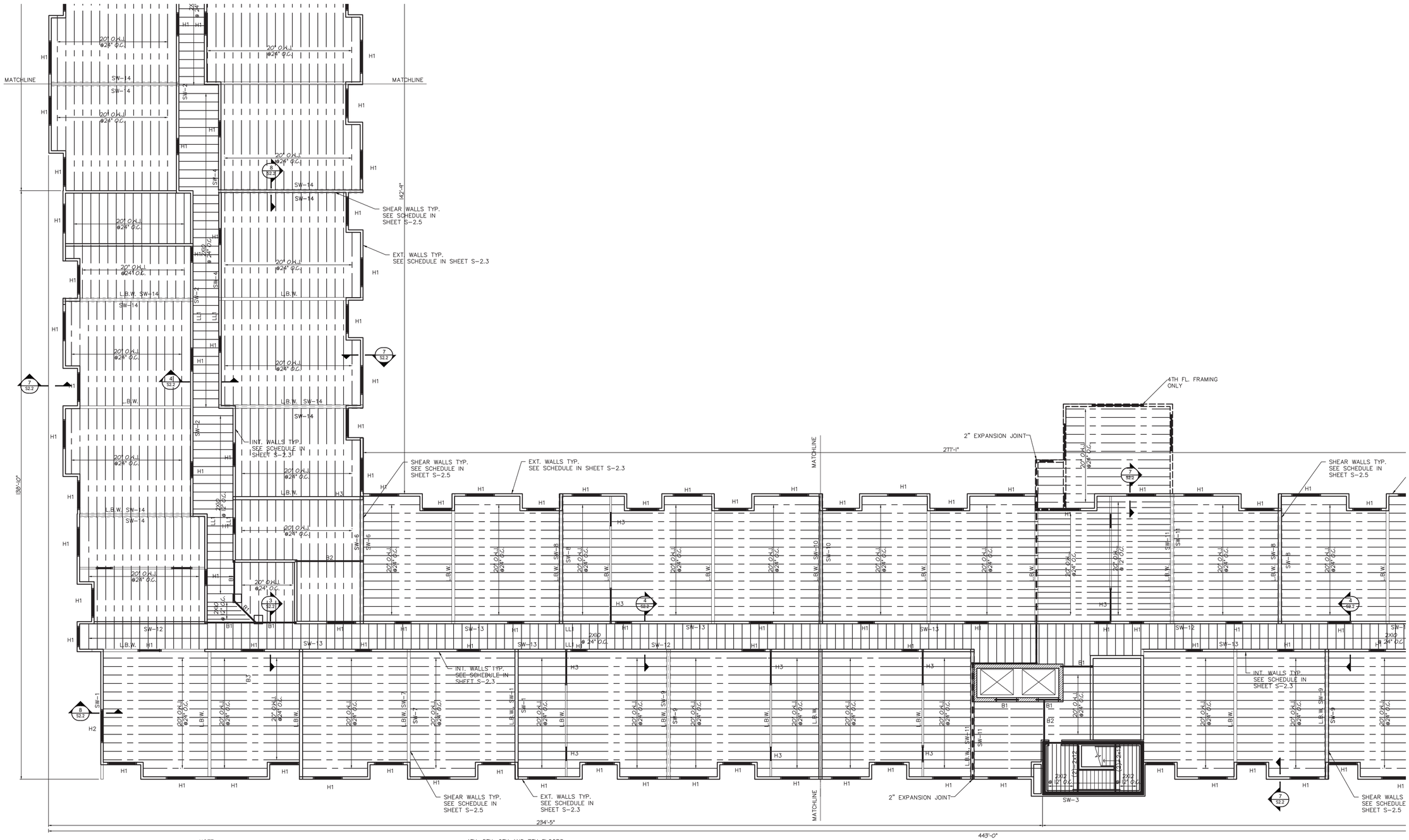

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4TH, 5TH, 6TH AND 7TH FLOORS

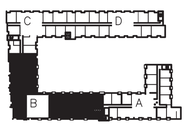
TYP. FL. FRAMING PLAN (1)

SCALE: 3/32" = 1' - 0"

N

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

KEY PLAN



MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR TAC CONSTRUCTION BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
V: (708) 668-1380

■ PROJECT DESCRIPTION:
FOUNDATION AND STRUCTURAL FRAMING PLANS

■ PROJECT NAME:
GARDEN STATION APARTMENTS

■ ADDRESS:
ARDMORE AVE./ VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: -
Drawn By: PRC

Sheet:
TYP. FLOOR FRAMING PLAN PART B

PROJECT NUMBER
1609

S-1.4B

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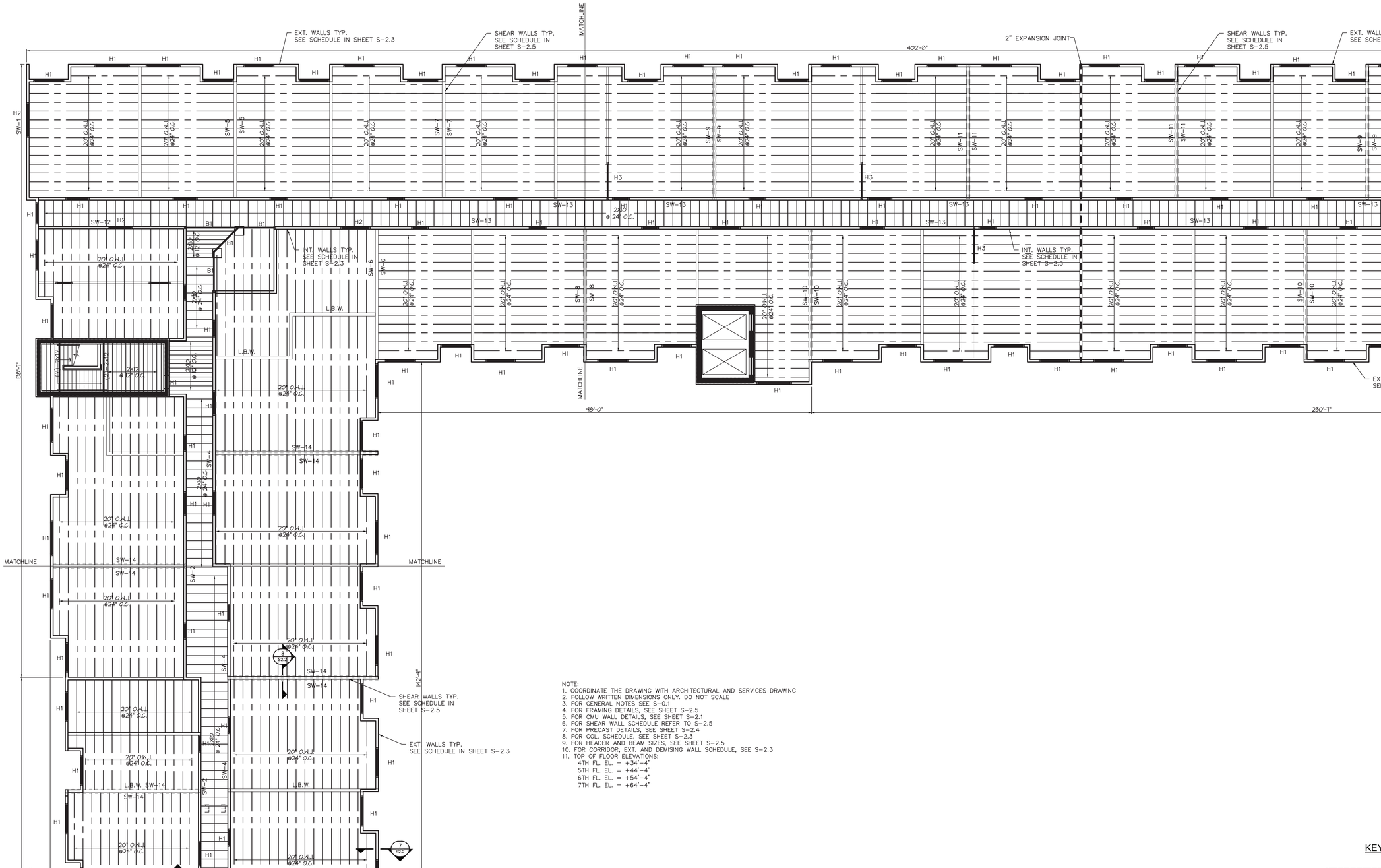


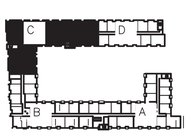
NOTE:
1. COORDINATE THE DRAWING WITH ARCHITECTURAL AND SERVICES DRAWING
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE
3. FOR GENERAL NOTES SEE S-0.1
4. FOR FRAMING DETAILS, SEE SHEET S-2.5
5. FOR CMU WALL DETAILS, SEE SHEET S-2.1
6. FOR SHEAR WALL SCHEDULE REFER TO S-2.5
7. FOR PRECAST DETAILS, SEE SHEET S-2.4
8. FOR COL. SCHEDULE, SEE SHEET S-2.3
9. FOR HEADER AND BEAM SIZES, SEE SHEET S-2.5
10. FOR CORRIDOR, EXT. AND DEMISING WALL SCHEDULE, SEE S-2.3
11. TOP OF FLOOR ELEVATIONS:
    4TH FL. EL. = +34'-4"
    5TH FL. EL. = +44'-4"
    6TH FL. EL. = +54'-4"
    7TH FL. EL. = +64'-4"

4TH, 5TH, 6TH AND 7TH FLOORS

TYP. FL. FRAMING PLAN (1)

SCALE: 3/32" = 1' - 0"

KEY PLAN



STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

MILESTONE DATES:
Issued For Permit:
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PREPARED FOR TAC CONSTRUCTION
BY

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75 EXECUTIVE DR. SUITE 122 AURORA, IL 60504
V: (708) 668-1380

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ARDMORE AVE./ VERMONT STREET
VILLA PARK, ILLINOIS

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TYP. FLOOR FRAMING PLAN PART C

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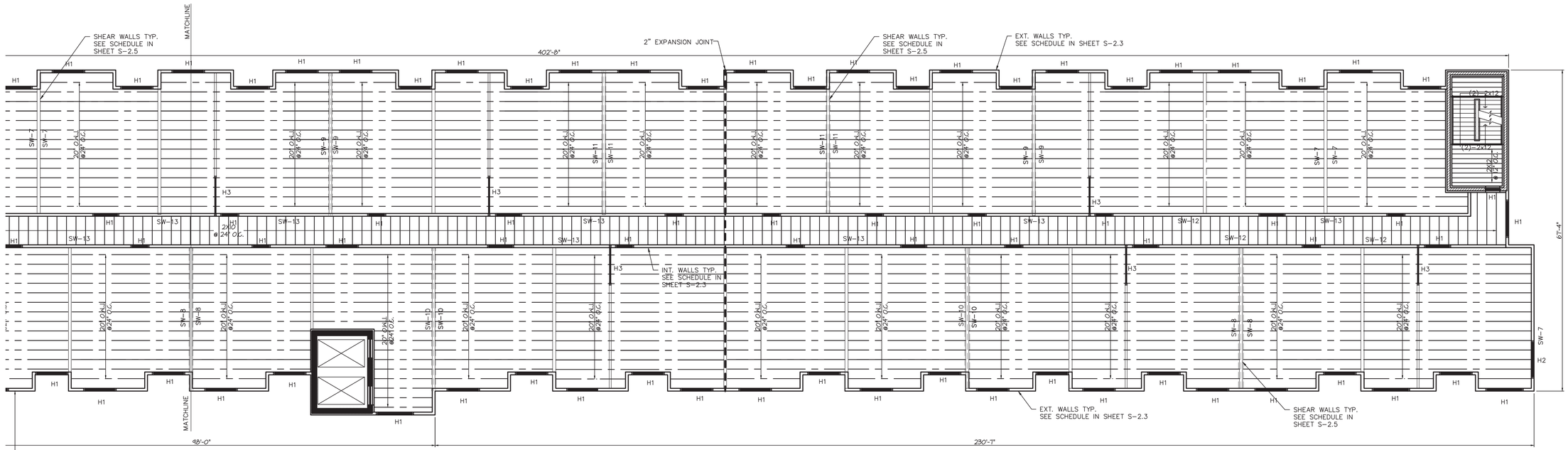

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4TH, 5TH, 6TH AND 7TH FLOORS

TYP. FL. FRAMING PLAN (1)

SCALE: 3/32" = 1' - 0"

STATE OF ILLINOIS
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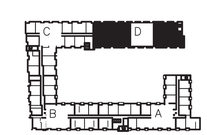
KEY PLAN



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TYP. FLOOR FRAMING PLAN PART D

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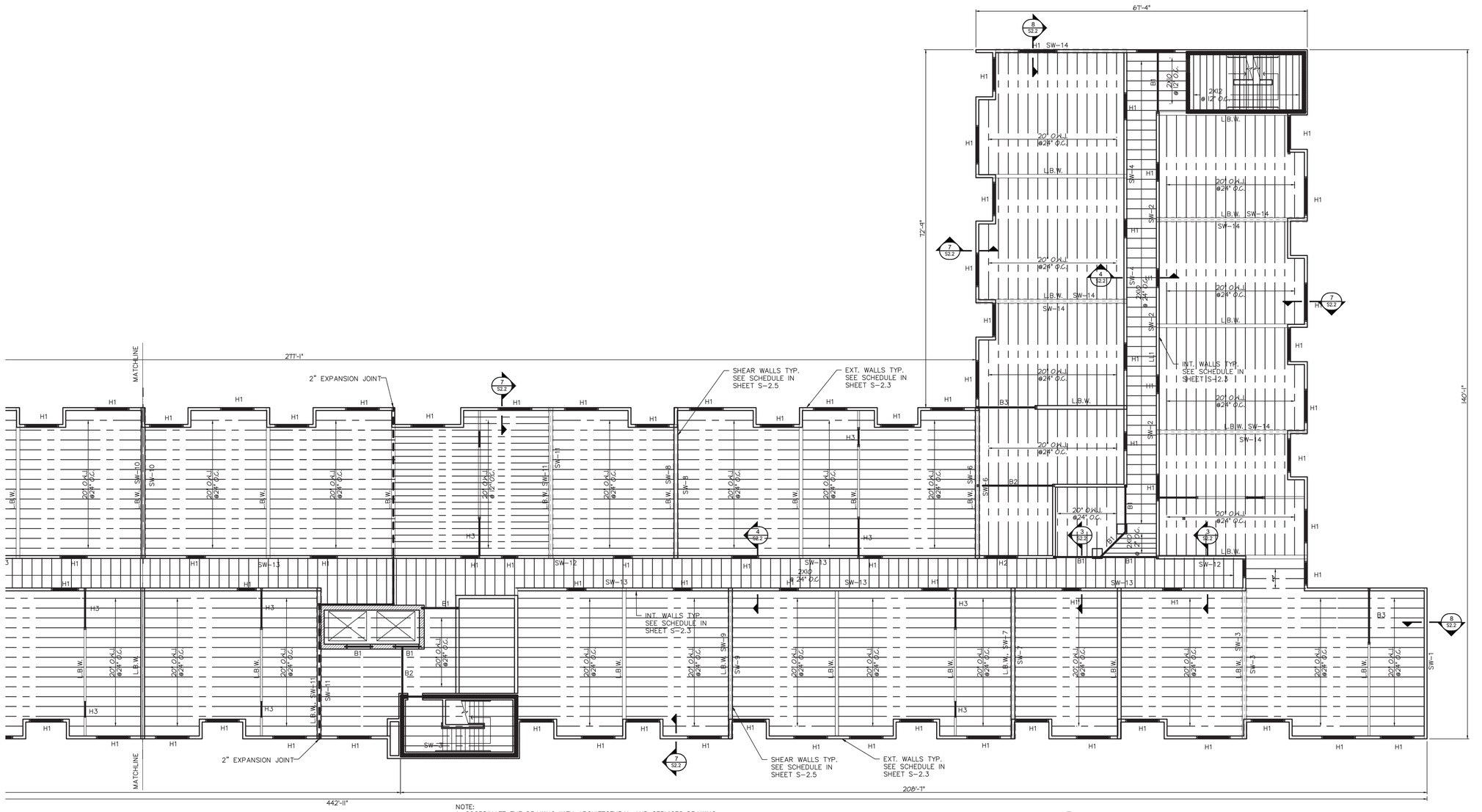

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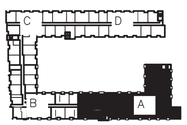
9. FOR HEADER AND BEAM SIZES, SEE SHEET S-2.5
10. ROOF ELEVATION: EL. = +78'-6"

ROOF FRAMING PLAN 1
SCALE: 3/32" = 1' - 0"

N

KEY PLAN



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ARDMORE AVE. / VERMONT ST., VILLA PARK, IL

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Drawn By: PRC

Sheet: ROOF FRAMING PLAN PART A

PROJECT NUMBER
1609

S-1.5A

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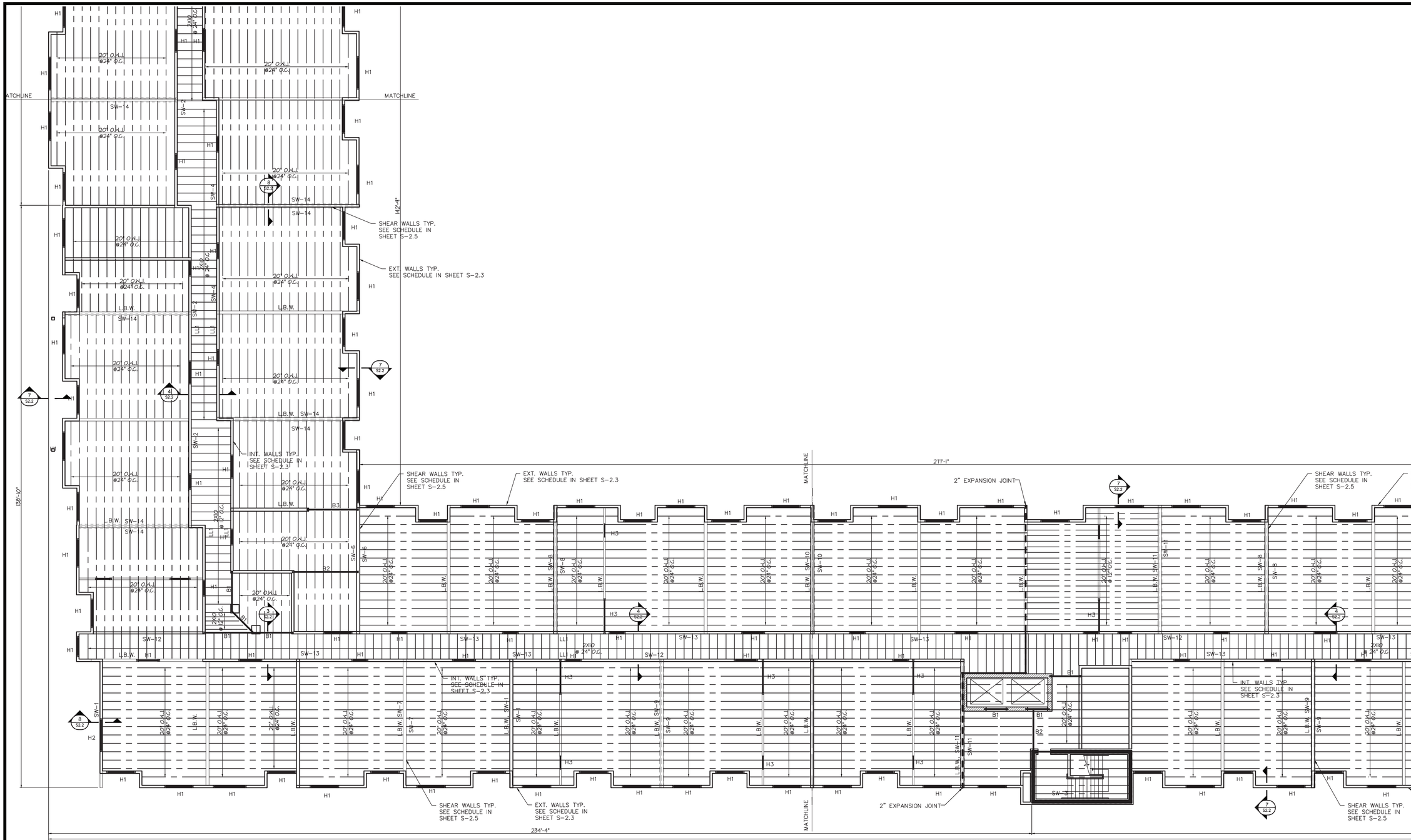

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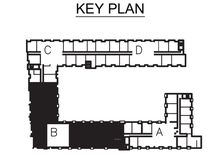
ROOF FRAMING PLAN (1)
SCALE: 3/32" = 1' - 0"

N

KEY PLAN



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- PROJECT DESCRIPTION: FOUNDATION AND STRUCTURAL FRAMING PLANS
- PROJECT NAME: GARDEN STATION APARTMENTS
- ADDRESS: ARDMORE AVE./ VERMONT STREET VILLA PARK, ILLINOIS

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Sheet: ROOF FRAMING PLAN PART B

PROJECT NUMBER
1609

S-1.5B

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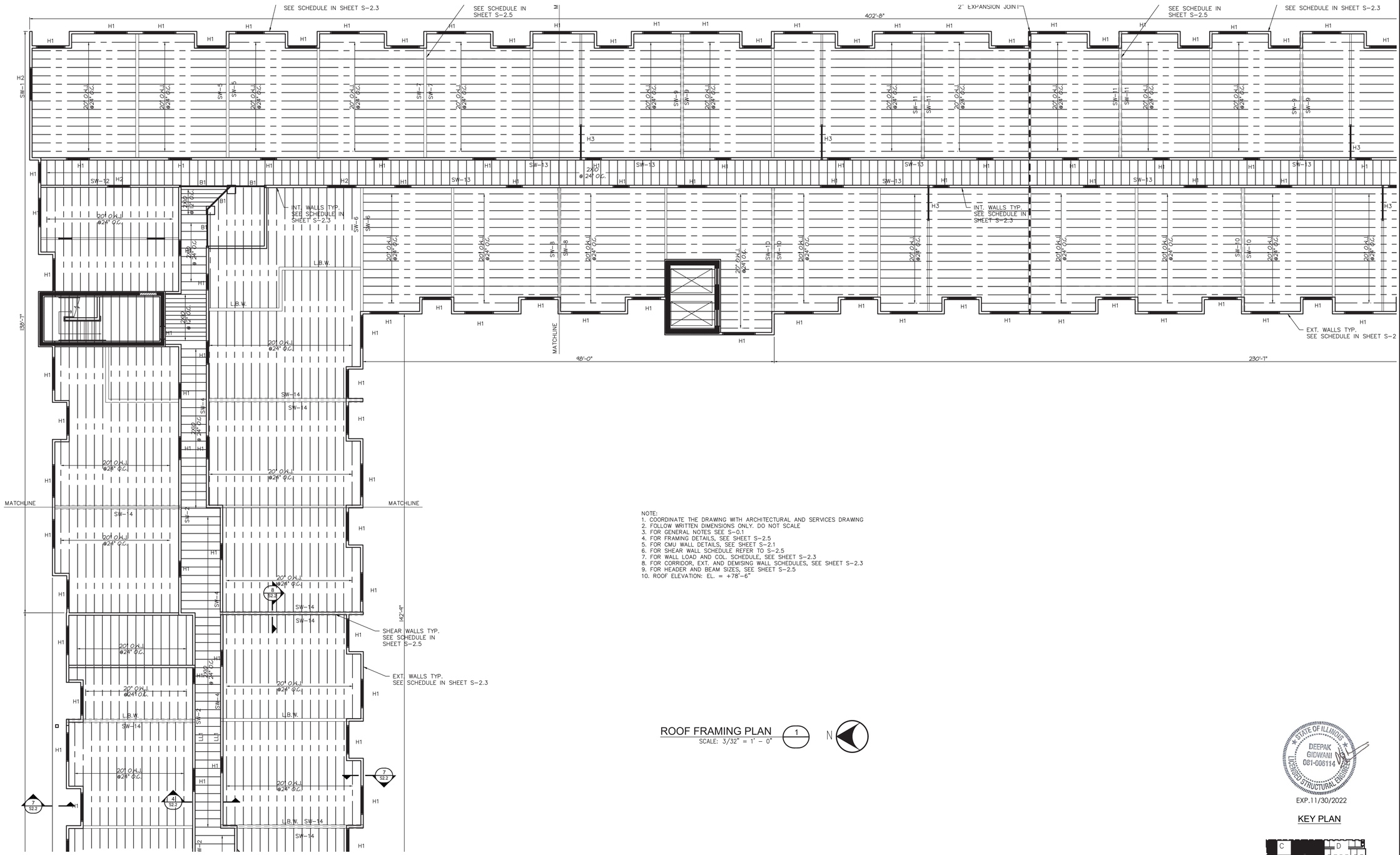

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ROOF FRAMING PLAN (1)
SCALE: 3/32" = 1' - 0"

N

STATE OF ILLINOIS
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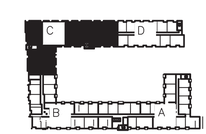

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Sheet:
ROOF FRAMING PLAN PART C

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S-1.5C

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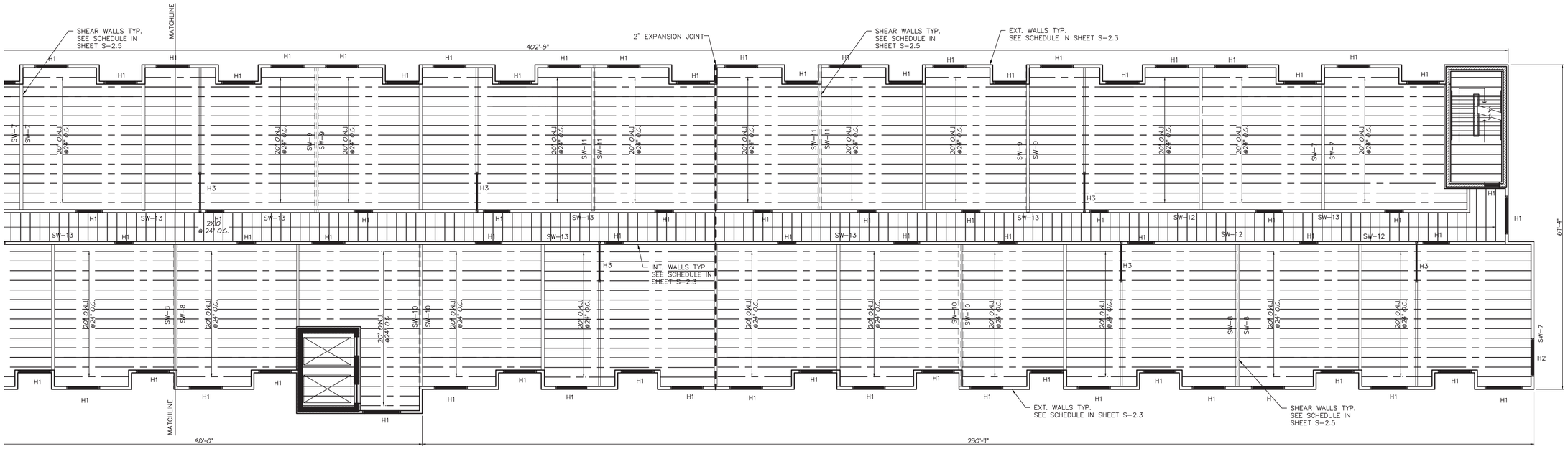

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10. ROOF ELEVATION: EL. = +78'-6"

ROOF FRAMING PLAN (1)
SCALE: 3/32" = 1' - 0"

N

STATE OF ILLINOIS
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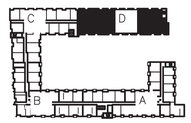
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

KEY PLAN



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Sheet: ROOF FRAMING PLAN PART D

PROJECT NUMBER
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S-1.5D

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3RD FLOOR LOADING PLAN
SCALE: 3/32" = 1' - 0"

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Sheet:
3RD FLOOR LOADING PLAN

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S-1.6

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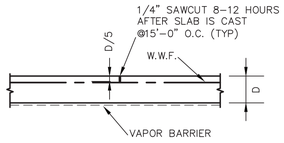
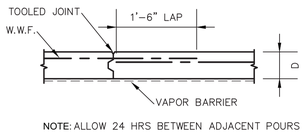
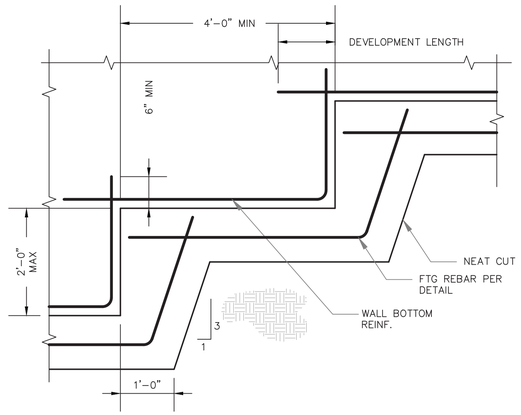


TYP CONTROL. JOINT (1)
SCALE: 3/4" = 1'–0"

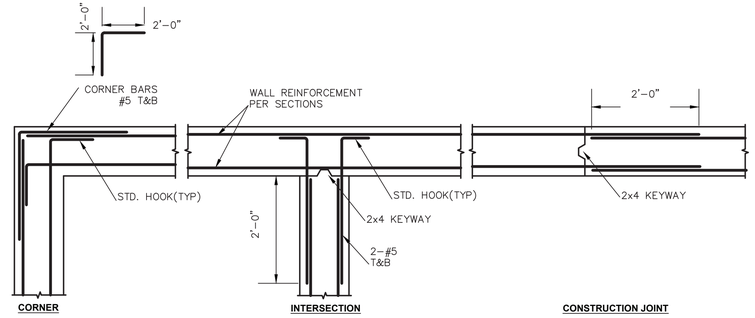


NOTE: ALLOW 24 HRS BETWEEN ADJACENT POURS

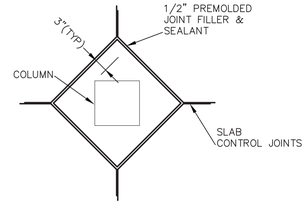
TYP CONST. JOINT (2)
SCALE: 3/4" = 1'–0"



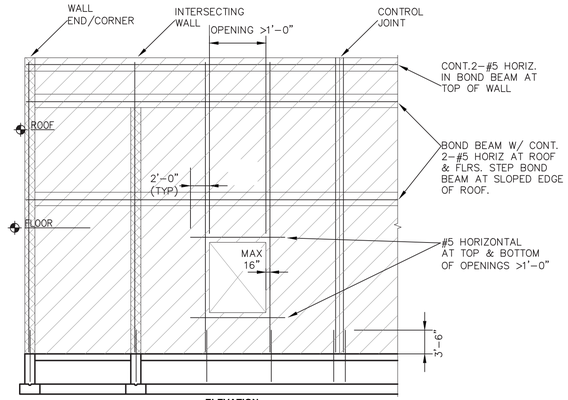
TYP STEPPED FTG DET (3)
SCALE: 3/4" = 1'–0"



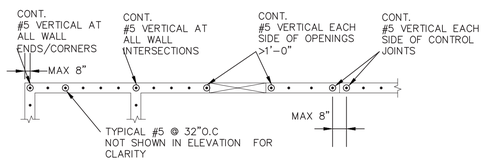
TYP FOUNDN WALL JN. DETAILS (4)
SCALE: 3/4" = 1'–0"



TYP. COL. ISOLATION JNT. (5)
SCALE: 3/4" = 1'–0"



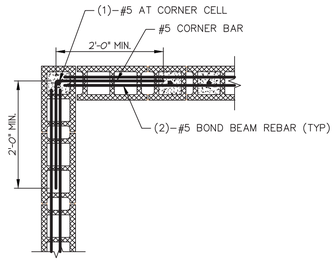
ELEVATION



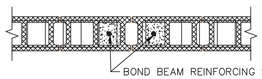
PLAN

TYP. MASONRY REINF. DETAIL (6)
SCALE: 3/4" = 1'–0"

NOTE:
1. PROVIDE FACE SHELL MORTAR BEDDING TYPICAL
2. GROUT ALL CELLS HAVING VERTICAL REINFORCEMENT
3. SEE SHEET 1 FOR GENERAL MASONRY NOTES



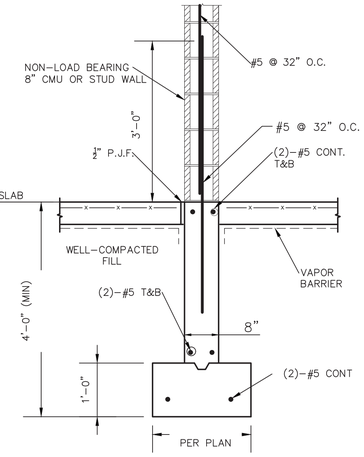
CMU WALL CORNER JOINTS (7A)
SCALE: 3/4" = 1'–0"



BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. REF. ARCH. DRGS. FOR LOCATION OF CONTROL JOINTS. PROVIDE VERT WALL REINF. IN FIRST CELL EACH SIDE OF CONTROL JOINT AND AT CORNER. SIZE BARS TO MATCH VERT. WALL REINF. SCHEDULED.

NOTES:
1. DO NOT PLACE CONTROL JOINTS IN LINE WITH BEAM OR JOIST BEARING LOCATIONS, U.N.O.
2. CMU, GROUT AND JOINT REINF SHALL BE DISCONTINUOUS AT CONTROL JOINTS DOWN TO TOP OF FOOTING OR CONC STEM WALL. DO NOT LOCATE CONTROL JOINT WHITHIN 2'–0" OF OPENINGS, U.N.O.

CMU WALL CONTROL JOINTS (7B)
SCALE: 3/4" = 1'–0"



CMU WALL FNDN DETAIL (8)
SCALE: 3/4" = 1'–0"

MASONRY WALL REINFORCEMENT SCHEDULE

	STAIR WALLS	ELEVATOR WALLS	NON–BEARING WALLS	
ROOF TO 4TH FLOOR	#5 @ 48" O.C.	#5 @ 48" O.C.	–	
3RD FLOOR TO 1ST FLOOR	#5 @ 24" O.C.	#5 @ 24" O.C.	#5 @ 32" O.C.	
FOUNDATION DOWELS	#5 @ 24" O.C.	#5 @ 24" O.C.	#5 @ 32" O.C.	

NOTES: REFER TO GENERAL NOTES ON S–0.1.
REFER TO ARCHITECTURAL DWGS FOR WALL LOCATIONS.
REFER TO DETAILS ON S–2.1 FOR ADDITIONAL REINF.
THE REINFORCMENT SHOWN IS FOR THE WALLS ABOVE INDICATED FLOORS.
THE DOWELS ARE 2'–0" INTO FOUNDATION WALL, WITH 3'–0" OVERLAP AT MASONRY WALL.

EXP.11/30/2022

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75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
M: (708) 668-2982

FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
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ADDRESS:
ARDMORE AVE / VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC

Sheet:
FOUNDATION DETAILS

PROJECT NUMBER
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S-2.1

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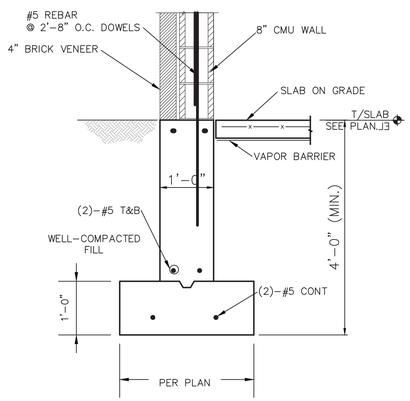
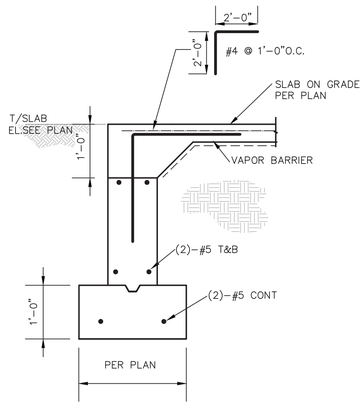
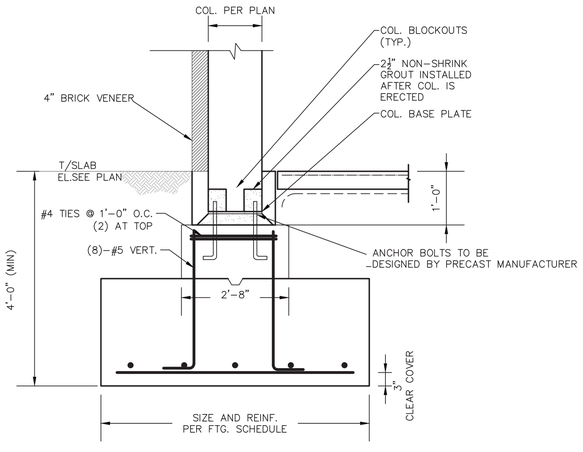


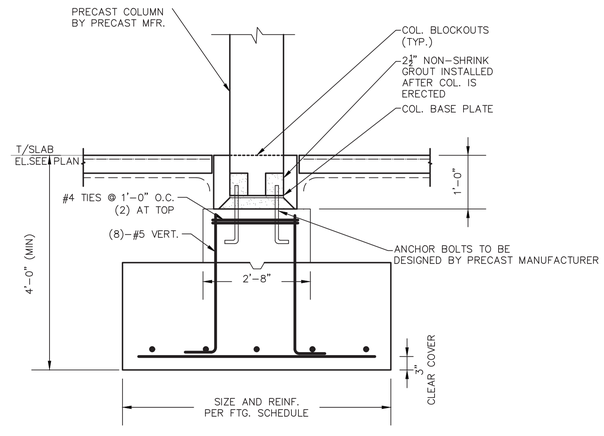
EXT. CMU WALL FTG. 1
SCALE: 3/4" = 1'-0"



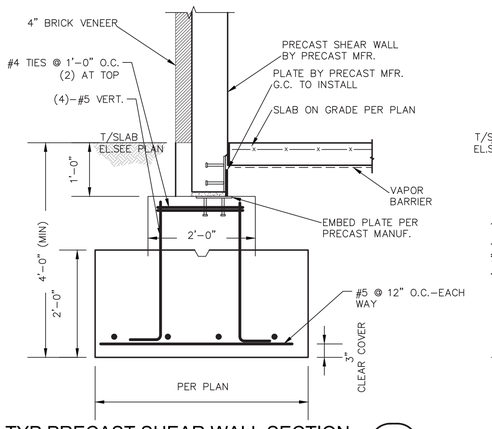
EXT. WALL FTG. AT DOOR 2
SCALE: 3/4" = 1'-0"



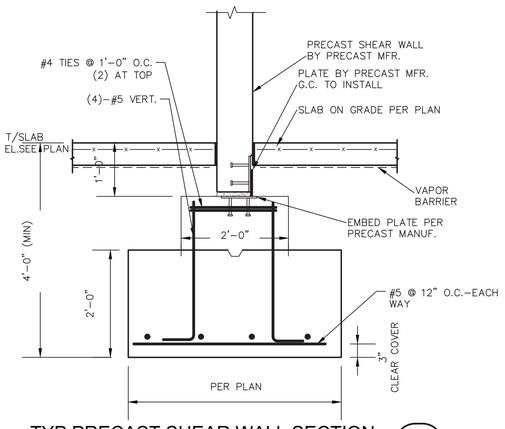
TYP. PC COLUMN BRG. 3
SCALE: 3/4" = 1'-0"



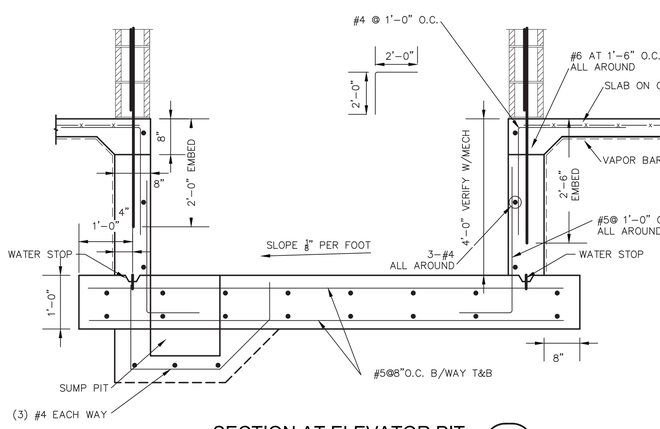
TYP. PC COLUMN BRG. 4
SCALE: 3/4" = 1'-0"



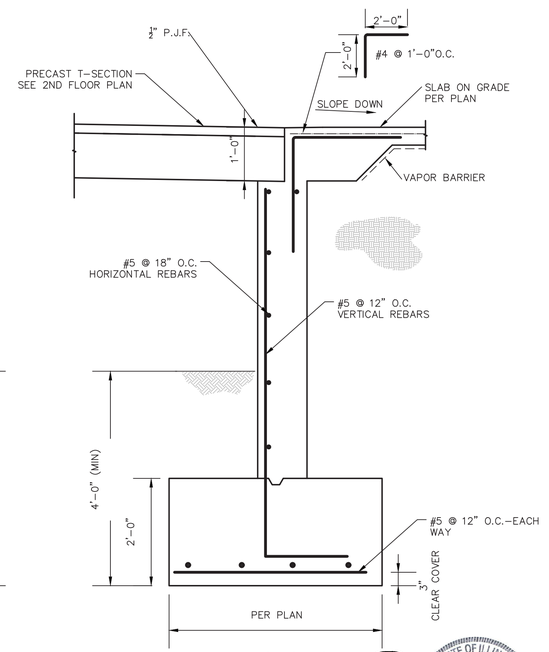
TYP PRECAST SHEAR WALL SECTION 5
SCALE: 3/4" = 1'-0"



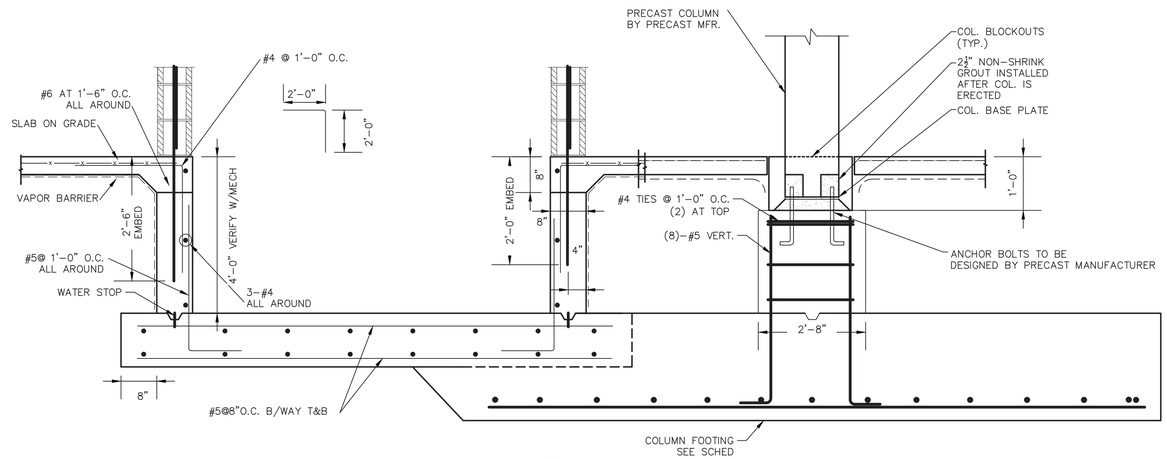
TYP PRECAST SHEAR WALL SECTION 6
SCALE: 3/4" = 1'-0"



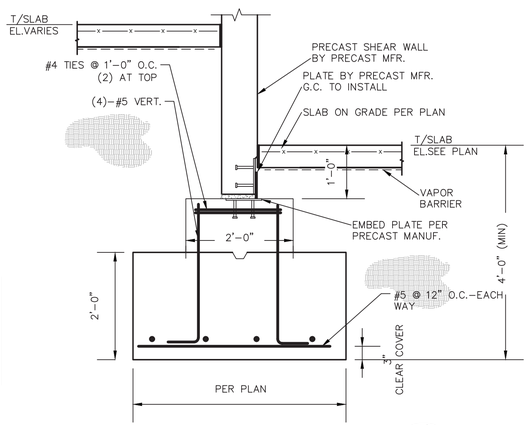
SECTION AT ELEVATOR PIT 7
SCALE: 3/4" = 1'-0"



RAMP SECTION 10
SCALE: 3/4" = 1'-0"



SECTION AT ELEVATOR PIT 8
SCALE: 3/4" = 1'-0"



RAMP SECTION 9
SCALE: 3/4" = 1'-0"

MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR:AC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
V: (708) 687-2961

FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME:
GARDEN STATION APARTMENTS

ADDRESS:
ARDMORE AVE / VERMONT STREET
VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC

Sheet:
FOUNDATION DETAILS

PROJECT NUMBER
1609

S-2.2

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

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FOOTING SCHEDULE

MARK	SIZE (MIN)	THICKNESS (MIN)	REBAR	REMARKS
F5	5'-0"x5'-0"	1'-0"	(4)-#5 E.W.B.	
F6	6'-0"x6'-0"	1'-3"	(6)-#5 E.W.B.	
F7	7'-0"x7'-0"	1'-6"	(8)-#5 E.W.B.	
F11	11'-0"x11'-0"	2'-2"	(10)-#7 E.W.B.	
F13	13'-0"x13'-0"	2'-6"	(13)-#7 E.W.B.	
F14	14'-0"x14'-0"	2'-7"	(12)-#8 E.W.B.	
F15	15'-0"x15'-0"	3'-0"	(11)-#9 E.W.B.	
F16	16'-0"x16'-0"	3'-0"	(12)-#9 E.W.B.	
F17	17'-0"x17'-0"	3'-0"	(14)-#9 E.W.B.	

NOTES: NET SOIL BEARING CAPACITY = 3000 PSF
REFER TO GEOTECHNICAL REPORT.
REFER TO GENERAL NOTES FOR MINIMUM COVER REQUIREMENT.
ALL LAPS IN STEEL REINFORCING SHALL BE CLASS "B" LAP SPLICES UNLESS NOTED OTHERWISE.

PRECAST COLUMN

MARK	SIZE		REMARKS
PC1	2'-0"x2'-0"		
PC2	0'-8"x2'-0"		
PC3	0'-8"x2'-6"		
PC4	0'-8"x4'-0"		
PC5	0'-8"x6'-1"		
PC6	0'-8"x6'-3"		

NOTES: PRECAST MANUFACTURER TO DESIGN AND PROVIDE SHOP DRAWINGS.
PRECAST MANUFACTURER TO DESIGN THE CONNECTION OF COLUMNS /FLOORS/FOUNDATION.
REFER TO GENERAL NOTES ON S0.0

PRECAST SHEAR WALL

MARK	AXIAL LOAD (KIPS/FT) (4TH FLR & ABOVE)	SHEAR FORCE (KIPS)		REMARKS
		3RD FLOOR	2ND FLOOR	
PSW-1A	1.2	138	49	
PSW-2A	1.2	138	49	
PSW-3A	1.2	138	49	
PSW-4A	1.2	98	35	
PSW-5A	–	98	35	
PSW-6A	1.2	98	35	
PSW-7A	10.5	78	28	
PSW-8A	10.5	78	28	
PSW-9A	1.2	142	49	
PSW-10A	1.2	142	49	
PSW-11A	2.3	136	51	
PSW-12A	1.2	136	51	
PSW-1B	1.2	61	24	
PSW-2B	–	61	24	
PSW-3B	1.2	61	24	
PSW-4B	1.2	70	27	
PSW-5B	–	70	27	
PSW-6B	1.2	70	27	
PSW-7B	1.2	89	35	
PSW-8B	–	108	42	
PSW-9B	1.2	105	41	
PSW-10B	1.2	105	41	
PSW-11B	10.5	98	38	*EARTH LATERAL PRESSURE
PSW-12B	10.5	98	38	*EARTH LATERAL PRESSURE

NOTES: SHEAR FORCE SHOWN IS FOR SEISMIC WITH 0.7E.
AXIAL LOAD SHOWN IS ONLY FROM FLOORS 4, 5, 6, 7 & ROOF.
PRECAST MANUFACTURER TO DESIGN AND PROVIDE SHOP DRAWINGS.
PRECAST MANUFACTURER TO DESIGN THE CONNECTION OF SHEAR WALLS WITH COLUMNS/FLOORS/FOUNDATION.
REFER TO GENERAL NOTES ON S0.0

WALL LOAD SCHEDULE

MARK	DEAD LOAD (K/FT)	LIVE LOAD (K/FT)	TOTAL LOAD (K/FT)
WL-1	2.2	1.8	4.00
WL-2	0.8	0.2	1.00
WL-3	1.1	1.45	2.55
WL-5	3.7	3.8	7.50
WL-6	4.1	4.2	8.30
WL-7	2.8	2.7	5.50
WL-8	2.4	2.15	4.55
WL-9	2.9	2.85	5.75
WL-10	2.26	1.89	4.10

NOTES: PRECAST FLOOR TO BE DESIGNED FOR WALL LOAD AS SHOWN BY PRECAST MFR.

WOOD STUD WALL

	EXTERIOR BEARING WALL	EXTERIOR NON-BEARING WALL	INTERIOR DEMISING WALL	CORRIDOR WALL
7TH FLOOR	2x6 SPF #1/#2 @ 16" O.C.	2x6 SPF #1/#2 @ 16" O.C.	2x4 SPF #1/#2 @ 16" O.C.	2x6 SPF #1/#2 @ 16" O.C.
6TH FLOOR	2x6 SPF #1/#2 @ 16" O.C.	2x6 SPF #1/#2 @ 16" O.C.	2x4 SPF #1/#2 @ 16" O.C.	2x6 SPF #1/#2 @ 16" O.C.
5TH FLOOR	2x6 SPF #1/#2 @ 16" O.C.	2x6 SPF #1/#2 @ 16" O.C.	DOUBLE 2x4 SPF #1/#2 @ 16" O.C.	2x6 SPF #1/#2 @ 16" O.C.
4TH FLOOR	2x6 DFL #1 @ 16" O.C.	2x6 DFL #1 @ 16" O.C.	DOUBLE 2x4 DFL #1 @ 16" O.C.	2x6 DFL #1 @ 16" O.C.
3RD FLOOR	2x6 DFL #1 @ 16" O.C.	2x6 DFL #1 @ 16" O.C.	DOUBLE 2x4 DFL #1 @ 16" O.C.	2x6 DFL #1 @ 16" O.C.

NOTES: REFER TO GENERAL NOTES ON S-0.1.
REFER TO ARCHITECTURAL DWGS FOR WALL CONSTRUCTION INCLUDING INSULATION, SHEATHING, ETC.
REFER TO DETAILS ON S-2.5.

SPECIAL INSPECTION SCHEDULE

PER IBC CHAPTER 17

ITEMS	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
SOILS			
GRADING, EXCAVATION & FILL			BY GEOTECHNICAL ENGINEER
FINAL FOUNDATION PREPARATION			BY GEOTECHNICAL ENGINEER
CONCRETE			
REINFORCING PLACEMENT		X	
REINFORCING WELDING	X		
REINFORCING COUPLING	X	X	REF. NOTE 5
ANCHOR BOLTS & INSERTS		X	
FORMWORK		X	
PREPARATION OF TEST SPECIMENS	X		
CONCRETE PLACEMENT	X		
ADHESIVE ANCHOR PLACEMENT	X		REF. NOTE 6
EXPANSION ANCHOR PLACEMENT	X		REF. NOTE 6
UNDERCUT ANCHOR PLACEMENT	X		REF. NOTE 6
EMBEDDED STEEL ITEMS	X		
CURING		X	
STRUCTURAL STEEL			
FABRICATION & ERECTION	X		REF. NOTE 7
HIGH STRENGTH BOLTING	X		REF. NOTE 8
SINGLE PASS FILLET WELDS </= 5/16"	X		REF. NOTE 9
ALL OTHER FILLET WELDS	X		REF. NOTE 9
PARTIAL/COMPLETE PENETRATION WELD	X		REF. NOTE 10
OTHER WELDING			
WELDING OF ANCHORS AND STUDS	X		
WELDING-STAIRS/RAILING SYSTEMS		X	
METAL DECK WELDING	X		
LIGHT GAUGE METAL FRAMING WELDING		X	
PREFABRICATED CONSTRUCTION			REF. NOTE 4
PRECAST CONCRETE ERECTION		X	
WOOD			
PREFABRICATION & ERECTION	X		
NAILING, BOLTING & OTHER FASTENING OF SHEAR WALLS	X		
INFILLS WITH NAIL SPACING<=4" O.C.	X		

INSPECTION SCHEDULE NOTES:

1. THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN APPROVED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO PROJECT SPECIFICATIONS, THE STRUCTURAL NOTES AND THE NOTES BELOW. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. INSPECTION AND TESTING REQUIREMENTS FOR SYSTEMS DESIGNED BY OTHERS SHALL BE DEFINED BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN, EXCEPT THAT THE INSPECTION REQUIREMENTS SHALL NOT BE LESS THAN SPECIFIED IN THIS SCHEDULE.
2. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER IBC SECTION 1704.2.2.
3. CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION (IBC 1702). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
4. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
5. CONTINUOUS INSPECTION IS REQUIRED FOR INSTALLATION OF COUPLERS. PERIODIC INSPECTION MAY BE USED FOR VERIFICATION OF COUPLER MATERIALS.
6. INSPECTION OF DRILLED CONCRETE ANCHORS, INCLUDING UNDERCUT, EXPANSION AND ADHESIVE GROUTED ANCHORS, SHALL INCLUDE VISUAL VERIFICATION ANCHOR TYPE AND DIMENSIONS, OF DRILLED HOLE DEPTH, SPACING, EDGE DISTANCES, HOLE CLEANING, ANCHOR EMBEDMENT AND TIGHTENING TORQUE. FOR GROUTED ANCHORS, GROUT INSTALLATION SHALL BE OBSERVED AND GROUT PRODUCT SPECIFICATION AND PREPARATION SHALL BE VERIFIED.
7. INSPECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH IBC SECTION 1704.3. THE STEEL FRAME SHALL BE INSPECTED FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS INCLUDING BRACING, STIFFENING, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
8. INSPECTION OF BOLT INSTALLATION FOR PRETENSIONING IS PERMITTED TO BE PERFORMED ON A PERIODIC BASIS WHEN USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT TENSION INDICATOR METHOD, OR THE ALTERNATE DESIGN FASTENER (TWIST-OFF BOLT) METHOD. JOINTS DESIGNATED AS SNUG TIGHT NEED ONLY PERIODIC INSPECTION.
9. ALL WELDS SHALL BE VISUALLY INSPECTED.
10. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USING ANOTHER APPROVED METHOD.
11. EFFECTIVE WIND AREA AT -10sf.
12. WIND PRESSURES ARE ULTIMATE LOADS.

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER
EXP.11/30/2022

MILESTONE DATES:
Issued For Permit:
April 16 2021
Revised Per Comments:
July 06 2021

PREPARED FOR:TAC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
75 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
V: (708) 668-1360

■ FOUNDATION AND STRUCTURAL FRAMING PLANS
■ PROJECT NAME: GARDEN STATION APARTMENTS
■ ADDRESS: ARDMORE AVE / VERMONT STREET VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC
Sheet:

SCHEDULES

PROJECT NUMBER
1609

S-2.3

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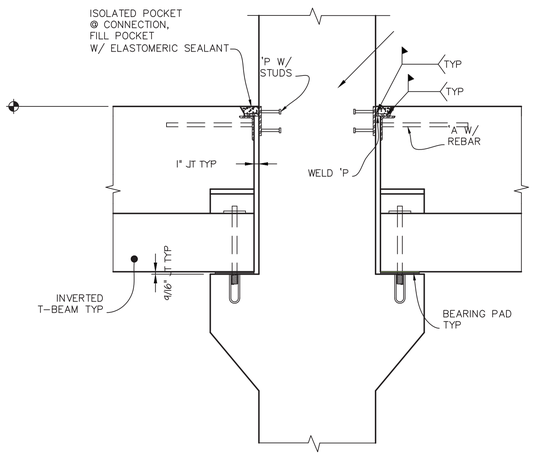
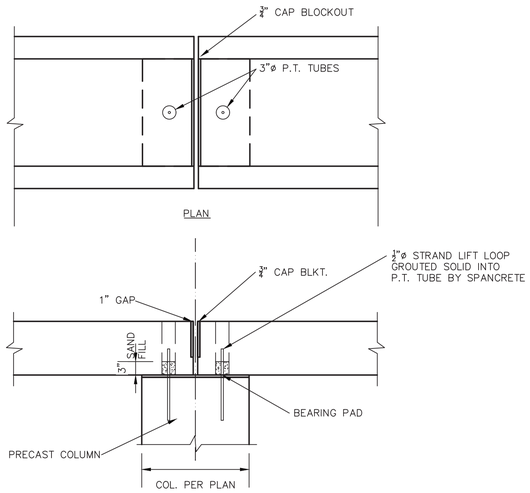


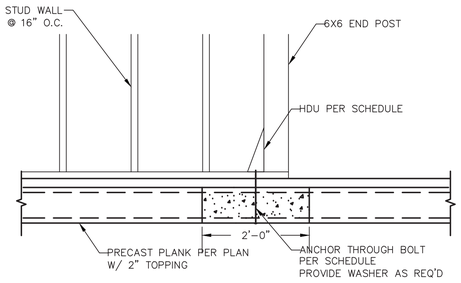
TYP. PC BEAM BRG AT 2ND FLR 1

SCALE: 3/4" = 1'-0"



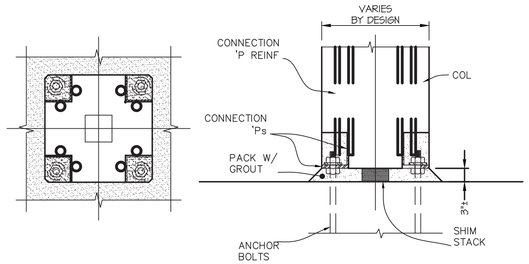
TYP. PC BEAM BRG AT 3RD FLR 2

SCALE: 3/4" = 1'-0"



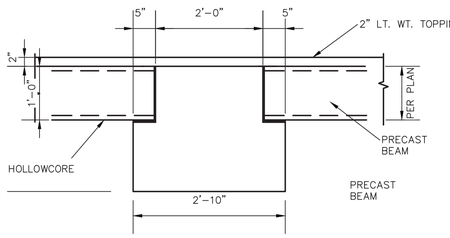
INTERIOR SHEAR WALL END POST DETAIL 3

SCALE: 3/4" = 1'-0"



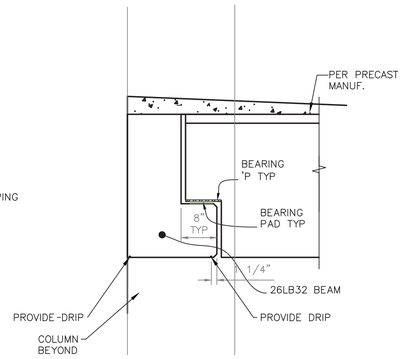
COL. BASE (ANCHOR BOLT CONN.) 4

SCALE: 3/4" = 1'-0"



PC PLANK BRG ON BEAM 5

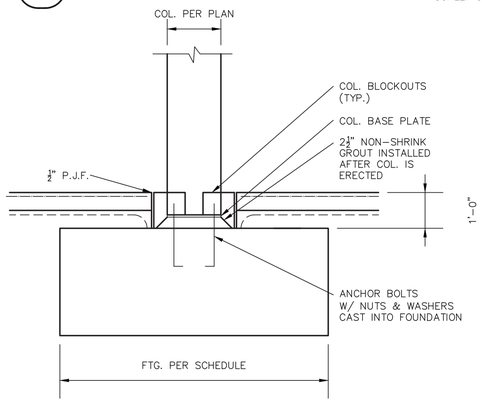
SCALE: 3/4" = 1'-0"



NOTE: PRECASTER SHALL DESIGN SPANDREL BEAMS FOR VEHICLE BARRIER LOADS IN ACCORDANCE WITH BUILDING CODEAT LOCATIONS INDICATED IN PLAN.

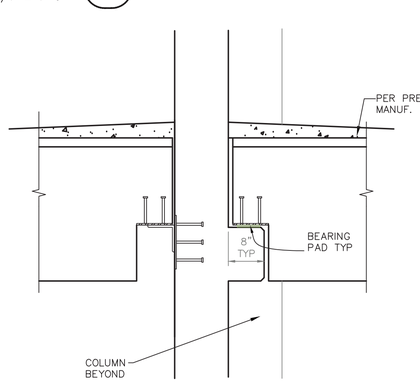
DOUBLE TEE TO EXT. GIRDER 6

SCALE: 3/4" = 1'-0"



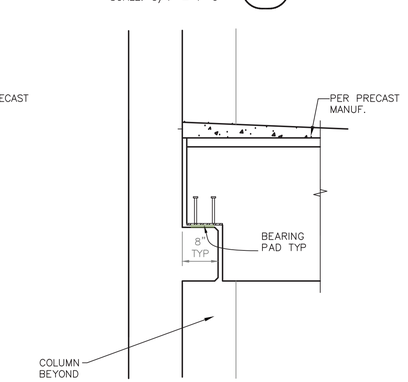
TYP. PC COLUMN BRG. 7

SCALE: 3/4" = 1'-0"



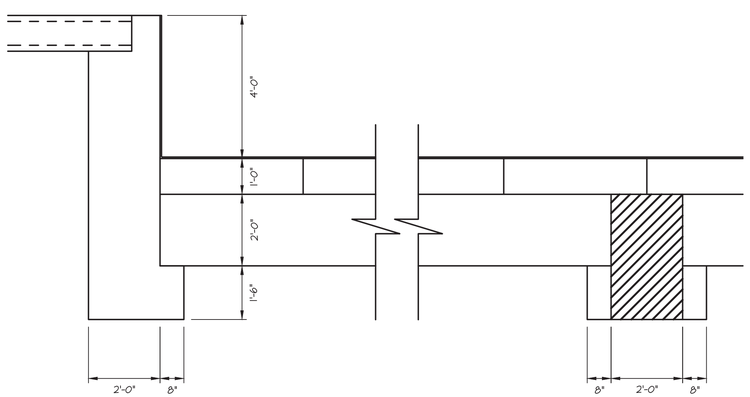
DOUBLE TEE TO INT. PC WALL 8

SCALE: 3/4" = 1'-0"



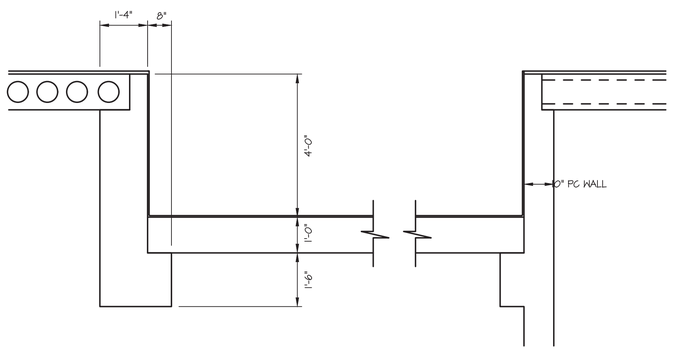
DOUBLE TEE TO EXT. PC WALL 9

SCALE: 3/4" = 1'-0"



POOL SECTION 10

SCALE: 1/2" = 1' - 0"



POOL SECTION 11

SCALE: 1/2" = 1' - 0"

POOL SECTION 12

SCALE: 1/2" = 1' - 0"

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MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR TAC CONSTRUCTION
BY

DG STRUCTURAL ENGINEERING LLC
73 EXECUTIVE DR. SUITE 727 AURORA, IL 60504
V (331) 681-5263

- FOUNDATION AND STRUCTURAL FRAMING PLANS
- PROJECT NAME: GARDEN STATION APARTMENTS
- ADDRESS: ARDMORE AVE / VERMONT STREET VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC

Sheet:

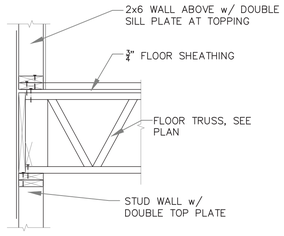
PRECAST DETAILS

PROJECT NUMBER
1609

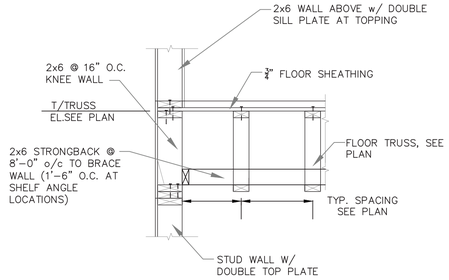
S-2.4

STATE OF ILLINOIS
DEEPAK GIDWANI
081-006114
LICENSED STRUCTURAL ENGINEER

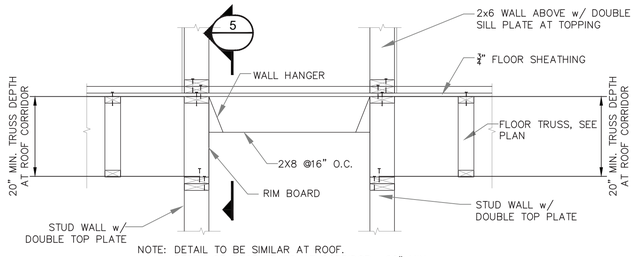
EXP.11/30/2022



TYP JOIST BRG DETAIL (1)
SCALE: 3/4" = 1'-0"

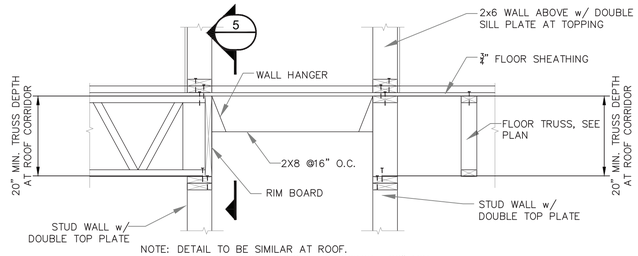


KNEE WALL PAR'L'L TO JOIST (2)
SCALE: 3/4" = 1'-0"

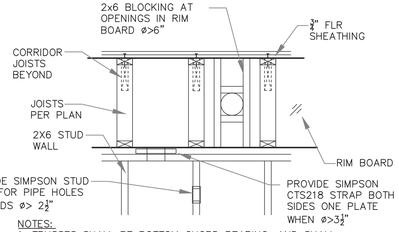


NOTE: DETAIL TO BE SIMILAR AT ROOF. DEPTH OF ROOF TRUSS AT CORRIDOR= 20" MIN. ¼"/FT SLOPE AT ROOF TRUSSES.

SECTION AT CORRIDOR (4)
SCALE: 3/4" = 1'-0"

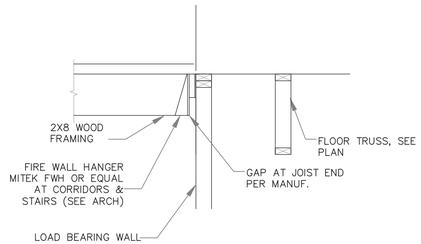


NOTE: DETAIL TO BE SIMILAR AT ROOF. DEPTH OF ROOF TRUSS AT CORRIDOR= 20" MIN. ¼"/FT SLOPE AT ROOF TRUSSES.

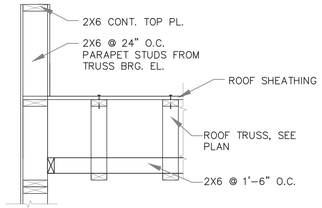


NOTES:
1. TRUSSES SHALL BE BOTTOM CHORD BEARING, AND SHALL BEAR DIRECTLY ON WALL STUDS.
2. ALLIGN CORRIDOR JOISTS W/ TRUSSES.
3. PROVIDE 2x6 BLOCKING AT OPENINGS IN RIM BOARD >3"ø.

TRUSS & JOIST LAYOUT, PIPE OPENINGS (5)
SCALE: 3/4" = 1'-0"

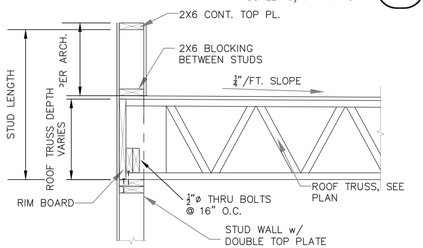


SECTION (6)
SCALE: 3/4" = 1'-0"

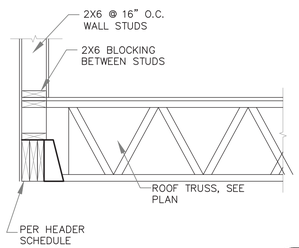


NOTE: SHELF ANGLE & BLOCKING ONLY AT LOCATIONS SHOWN IN PLAN

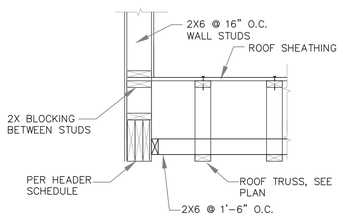
PARAPET PAR'L'L TO JOIST (7)
SCALE: 3/4" = 1'-0"



PARAPET @ TRUSS BRG (8)
SCALE: 3/4" = 1'-0"



JOIST BRG @ FLR HEADER (9)
SCALE: 3/4" = 1'-0"



KNEE WALL @ FLR HEADER (10)
SCALE: 3/4" = 1'-0"

HEADER SCHEDULE

MARK	SIZE	MAX. OPENING(U.N.O.)
H1	(3)-2x10 SPF NO.1/NO.2	L UP TO 7'-0"
H2	(3)-2x12 SPF NO.1/NO.2	L UP TO 8'-0"
H3	(2)-1¾x11¼ LVL	L UP TO 8'-0"

BEAM SCHEDULE

MARK	BEAM SIZE AND TYPE
B1	(2)-1½X11¼ LVL
B2	(2)-1½X16 LVL
B3	(3)-1½X16 LVL

WOOD SHEARWALL SCHEDULE

MARK	FLOOR	LENGTH	END POST-EACH SIDE	AXIAL TENSION (LB)	HOLDDOWN ANCHORS/ STRAPS	SHEATHING	NAILING	
							EDGES	INT FRAMING
SW-1	7TH, 6TH & 5TH FLOOR	14'-0"	(2) 2x4	–	MST48	19/32 WSP SHEATHING (2-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x5¼ PSL	934	MST48	19/32 WSP SHEATHING (2-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	3063	HDU8	19/32 WSP SHEATHING (2-SIDE)	10d @ 6"	10d @ 12"
SW-2	7TH, 6TH & 5TH FLOOR	20'-9"	(2) 2x4	976	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x5¼ PSL	2688	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	5095	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
SW-3	7TH, 6TH & 5TH FLOOR	18'-0"	(2) 2x4	788	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x3½ PSL	2229	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x5¼ PSL	4259	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
SW-4	7TH, 6TH & 5TH FLOOR	20'-0"	(2) 2x4	581	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x3½ PSL	1953	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x5¼ PSL	3913	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
SW-5	7TH, 6TH & 5TH FLOOR	30'-0"	(2) 2x4	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x3½ PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x5¼ PSL	–	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
SW-6	7TH, 6TH & 5TH FLOOR	30'-0"	(2) 2x4	2402	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x3½ PSL	4931	MST60	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x5¼ PSL	8324	HDU14	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
SW-7	7TH, 6TH & 5TH FLOOR	30'-0"	(2) 2x4	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x5¼ PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	–	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
SW-8	7TH, 6TH & 5TH FLOOR	30'-0"	(2) 2x4 3½x5¼ PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x7 PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	1245	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 4"	10d @ 12"
SW-9	7TH, 6TH & 5TH FLOOR	30'-0"	(2) 2x4 3½x5¼ PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x7 PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	1245	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 4"	10d @ 12"
SW-10	7TH, 6TH & 5TH FLOOR	30'-0"	(2) 2x4 3½x5¼ PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x7 PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	3408	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 4"	10d @ 12"
SW-11	7TH, 6TH & 5TH FLOOR	30'-0"	(2) 2x4 3½x5¼ PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x7 PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	2473	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 4"	10d @ 12"
SW-12	7TH, 6TH & 5TH FLOOR	36'-0"	(2) 2x4 3½x3½ PSL	760	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x7 PSL	3008	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	6252	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 4"	10d @ 12"
SW-13	7TH, 6TH & 5TH FLOOR	21'-0"	(2) 2x4 3½x3½ PSL	545 2313	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x7 PSL	5078	MST60	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	8839	HDU14	19/32 WSP SHEATHING (1-SIDE)	10d @ 4"	10d @ 12"
SW-14	7TH, 6TH & 5TH FLOOR	26'-0"	(2) 2x4 3½x3½ PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	4TH FLOOR		3½x7 PSL	–	MST48	19/32 WSP SHEATHING (1-SIDE)	10d @ 6"	10d @ 12"
	3RD FLOOR		3½x7 PSL	2547	HDU8	19/32 WSP SHEATHING (1-SIDE)	10d @ 4"	10d @ 12"

NOTES:
1. PROVIDE SIMPSON/STRONG-TIE HOLDOWN AS INDICATED (HD) AT ENDS OF WALL. PROVIDE ANCHOR BOLT DIAMETER AS SPECIFIED BY HOLDDOWN MANUFACTURER, FOLLOW ALL INSTALLATION RECOMMENDATION GIVEN BY MANUFACTURER.
2. PROVIDE EXTERIOR RATED WOOD STRUCTURAL PANEL SHEATHING. PROVIDE SOLID 2X6 BLOCKING AT PANEL EDGES.
3. POST AXIAL TENSION FORCES ARE THE NET FORCES USING ASD LOAD COMBINATION, AT BOTH END POSTS OF SHEAR WALLS.

EXP.11/30/2022

MILESTONE DATES:
Issued For Permit:
April 16 2021

PREPARED FOR TAC CONSTRUCTION BY

DG STRUCTURAL ENGINEERING LLC
73 EXECUTIVE DR. SUITE 127, AURORA, IL 60504
P: (708) 488-3980

FOUNDATION AND STRUCTURAL FRAMING PLANS

PROJECT NAME: GARDEN STATION APARTMENTS

ADDRESS: ARDMORE AVE / VERMONT STREET VILLA PARK, ILLINOIS

Issue Date: MAY 17 2016
Drawn By: BC

Sheet: WOOD DETAILS

PROJECT NUMBER 1609

S-2.5

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FIRST FLOOR PLAN

SCALE 1/16" = 1'-0"

NOTE
INDOOR FIREPLACE SHALL BE MODEL FLEX 5065 ETHANOL BURNING AS MANUFACTURED BY ECOSMART FIRE

FIRE SUPPRESSION 124
STAIR 136
STAIR 143
STAIR 142
TRASH 125
ELEV LOBBY 123
PARKING GARAGE 120
STORAGE 121
ELEC 122
STAIR 134
STAIR 133
STAIR 145
STAIR 132
RAMP UP
STORAGE 127
RETAIL 118
RESTAURANT 119
FITNESS ROOM 115
MAIL ROOM 114
FIREPLACE LOUNGE 102
MEDIA ROOM 106
LOUNGE / PARTY ROOM 107
LOBBY 108
LOUNGE 111
ELEVATOR LOBBY 112
OFFICE 109
CONF 110
VEST
LIN 107
TOIL 113
TOIL 117
TOIL 116
FIRE COMM 126

4"ø x 3'-0" HIGH STEEL BOLLARD FILLED WITH CONCRETE
4" WIDE PAVEMENT MARKING (TYPICAL)
6"x8'-0" WHEEL STOP BUMPERS
ACCESSIBLE PARKING SIGN (TYP)
EXP. JOINT
EV CHARGERS

402'-8"
107'-2"
243'-9 1/2"
56'-3 1/4"
430'-8"
277'-5"

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RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

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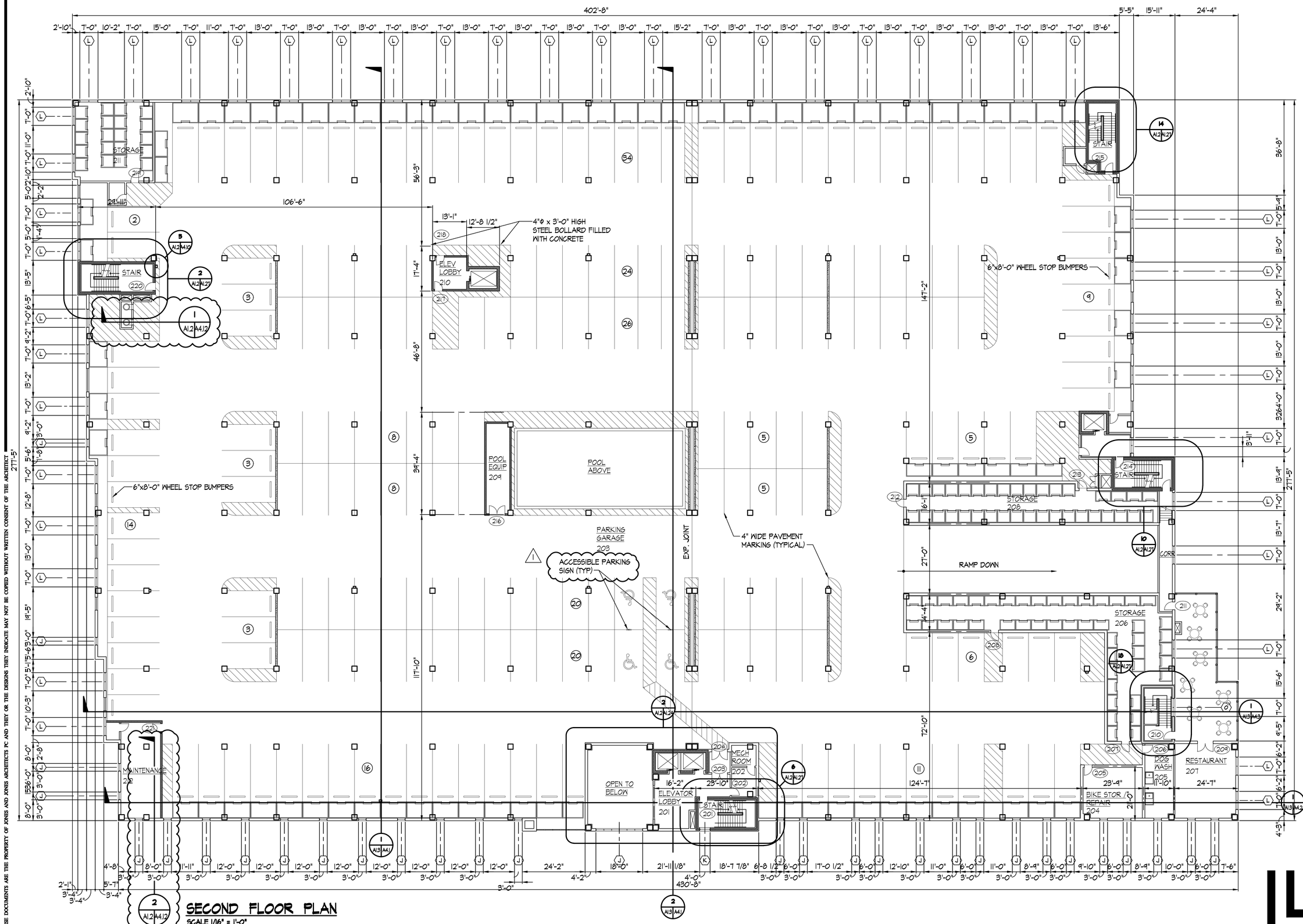

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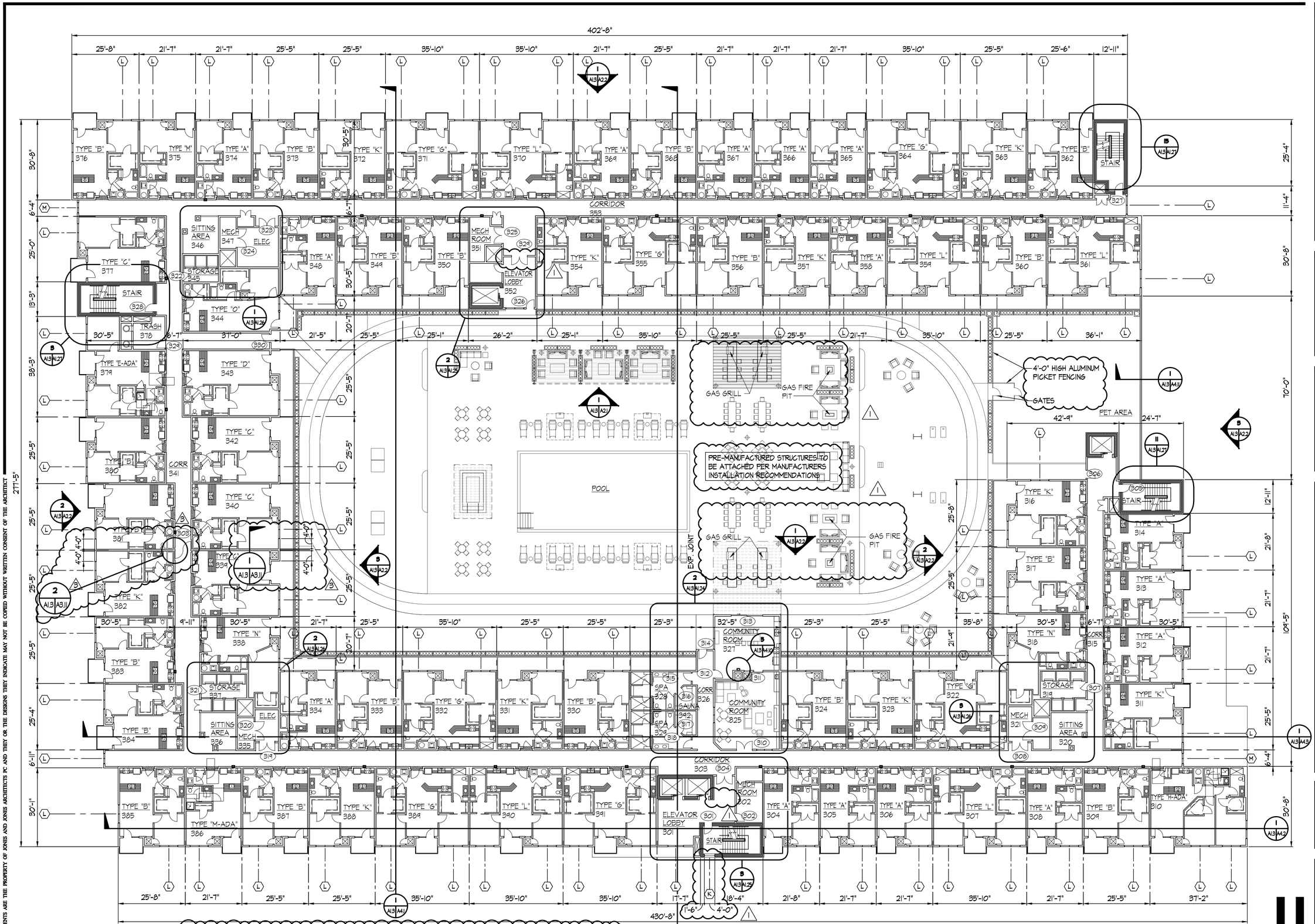

THIRD FLOOR PLAN

SCALE 1/16" = 1'-0"

NOTES
1. PROVIDE 4" EXTENSIVE SOIL MIX ON GRANULAR DRAINAGE AT THIRD FLOOR PERVIOUS AREAS
2. PROVIDE WATERPROOF COATING SYSTEM ON THIRD FLOOR CONCRETE DECK
3. OUTDOOR GAS FIREPITS SHALL BE MODEL GIN 90 NATURAL GAS AS MANUFACTURED BY ECOSMART FIRE
4. OUTDOOR GAS GRILLS SHALL BE MODEL IBI36NG AS MANUFACTURED BY CROWN VERITY

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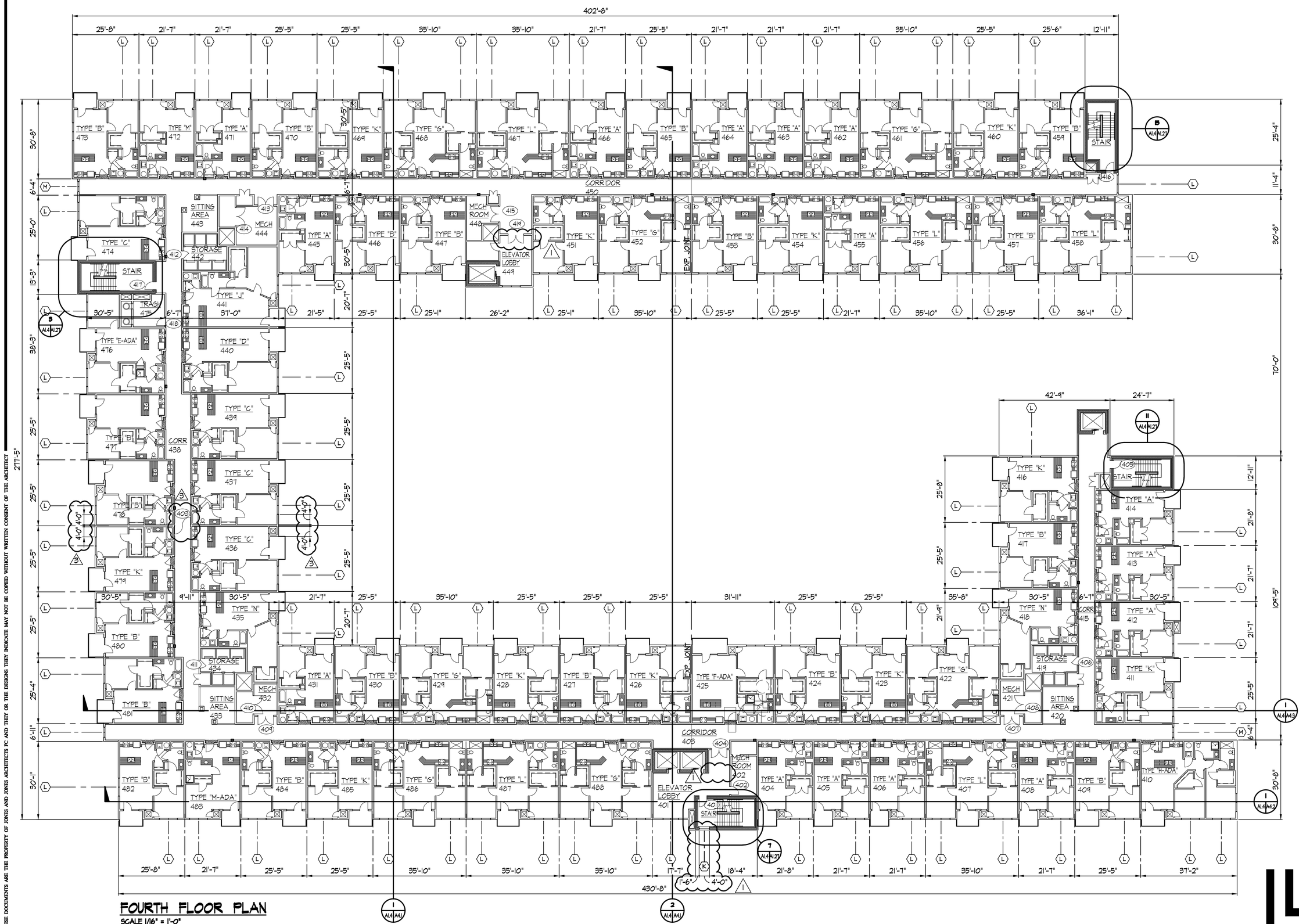

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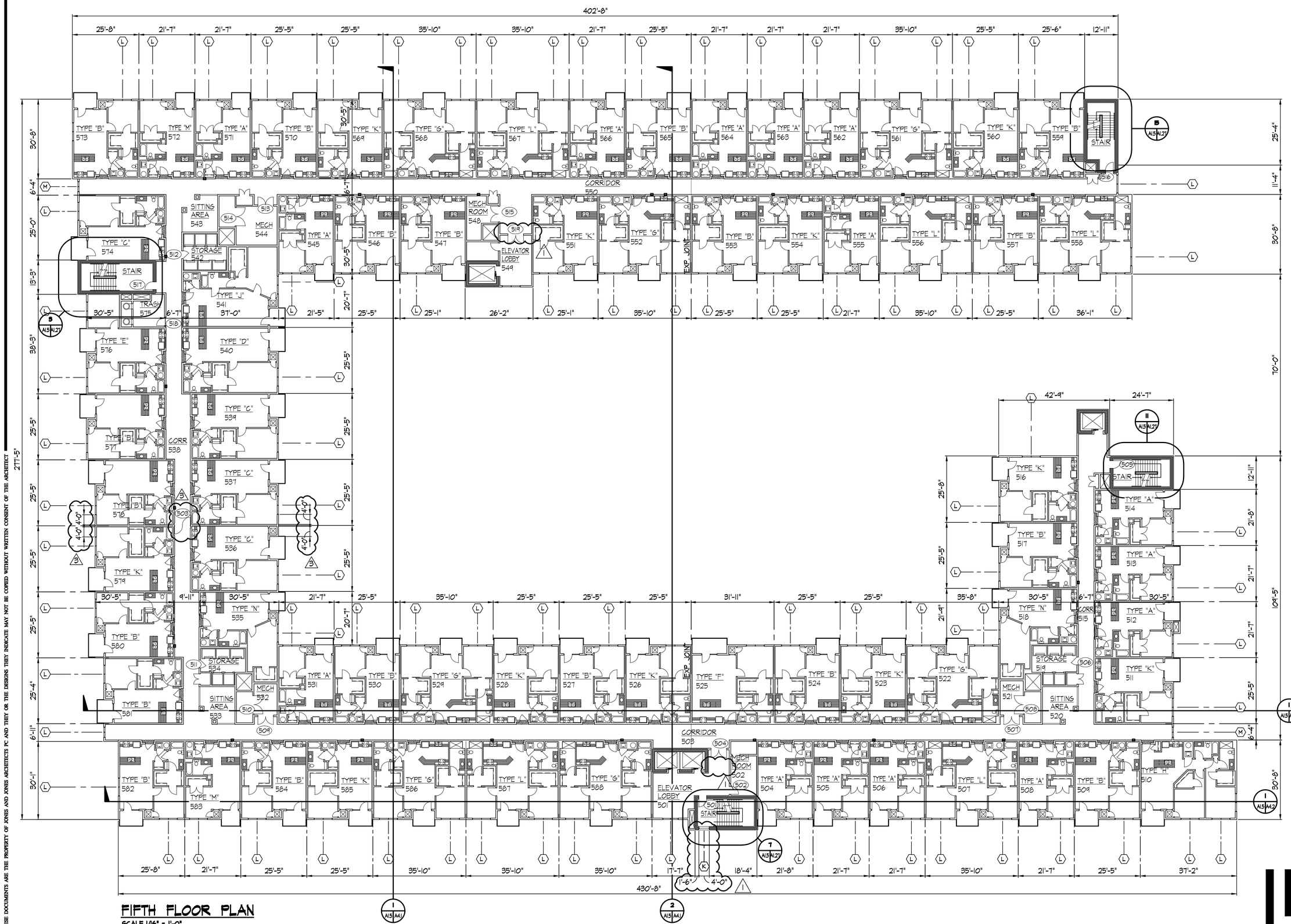
402'-8"
CORRIDOR 550
EXP. JOINT
MECH ROOM 548
ELEVATOR LOBBY 549
STAIR
SITTING AREA 543
STORAGE 542
MECH 544
TRASH 575
CORR 538
CORRIDOR 503
MECH ROOM 502
ELEVATOR LOBBY 501
STORAGE 534
SITTING AREA 533
MECH 532
STORAGE 519
SITTING AREA 520
MECH 521
CORR 515
TYPE "A" 514
TYPE "A" 513
TYPE "A" 512
TYPE "K" 511
TYPE "H" 510
TYPE "K" 516
TYPE "B" 517
TYPE "N" 518
TYPE "N" 535
TYPE "J" 541
TYPE "D" 540
TYPE "C" 539
TYPE "C" 537
TYPE "C" 536
TYPE "C" 574
TYPE "E" 576
TYPE "B" 577
TYPE "B" 576
TYPE "K" 579
TYPE "B" 580
TYPE "B" 581
TYPE "M" 583
TYPE "B" 582
TYPE "B" 584
TYPE "K" 585
TYPE "G" 586
TYPE "L" 587
TYPE "G" 588
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TYPE "B" 577
TYPE "B" 576
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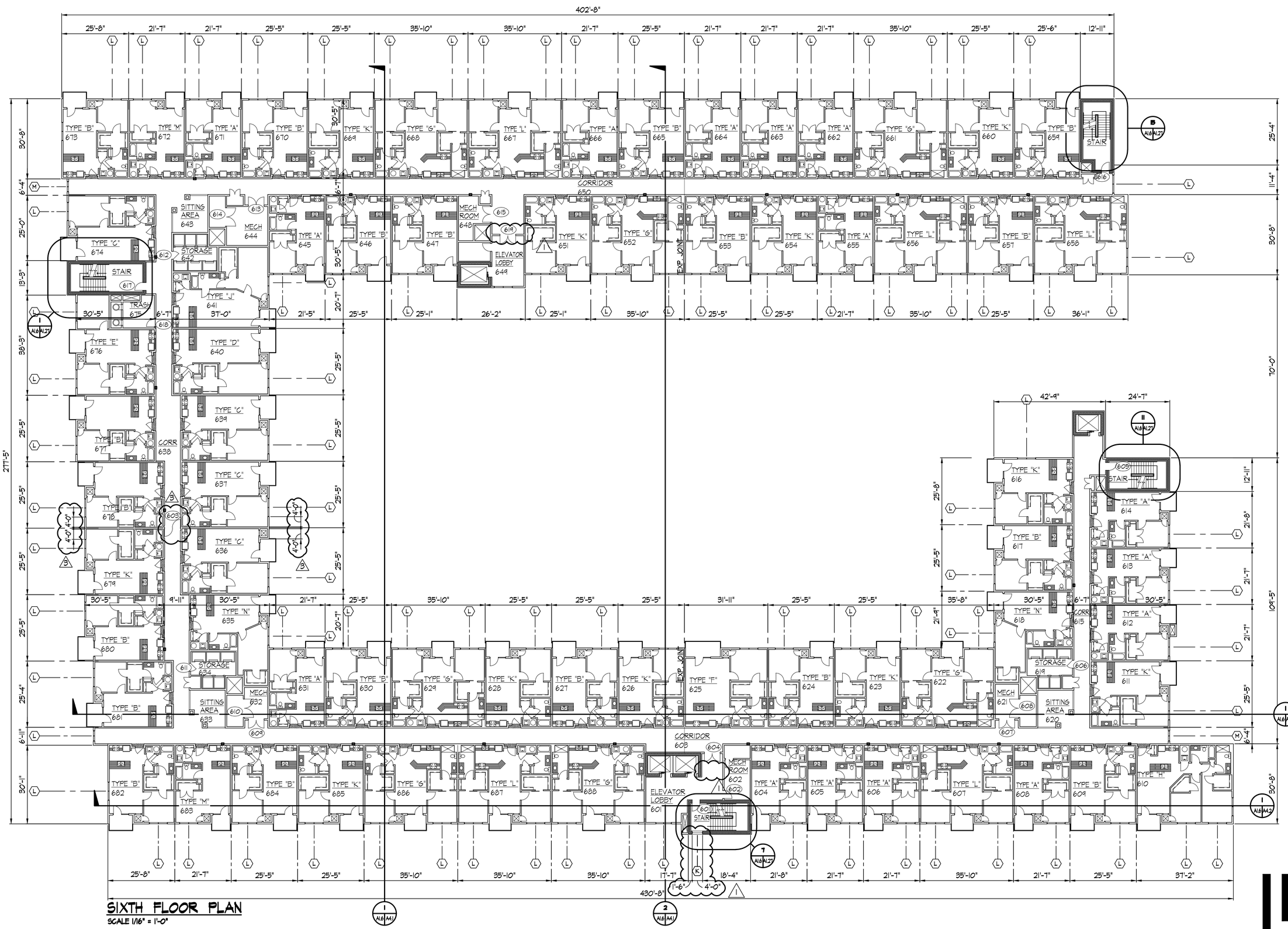
TYPE "G" 588
TYPE "A



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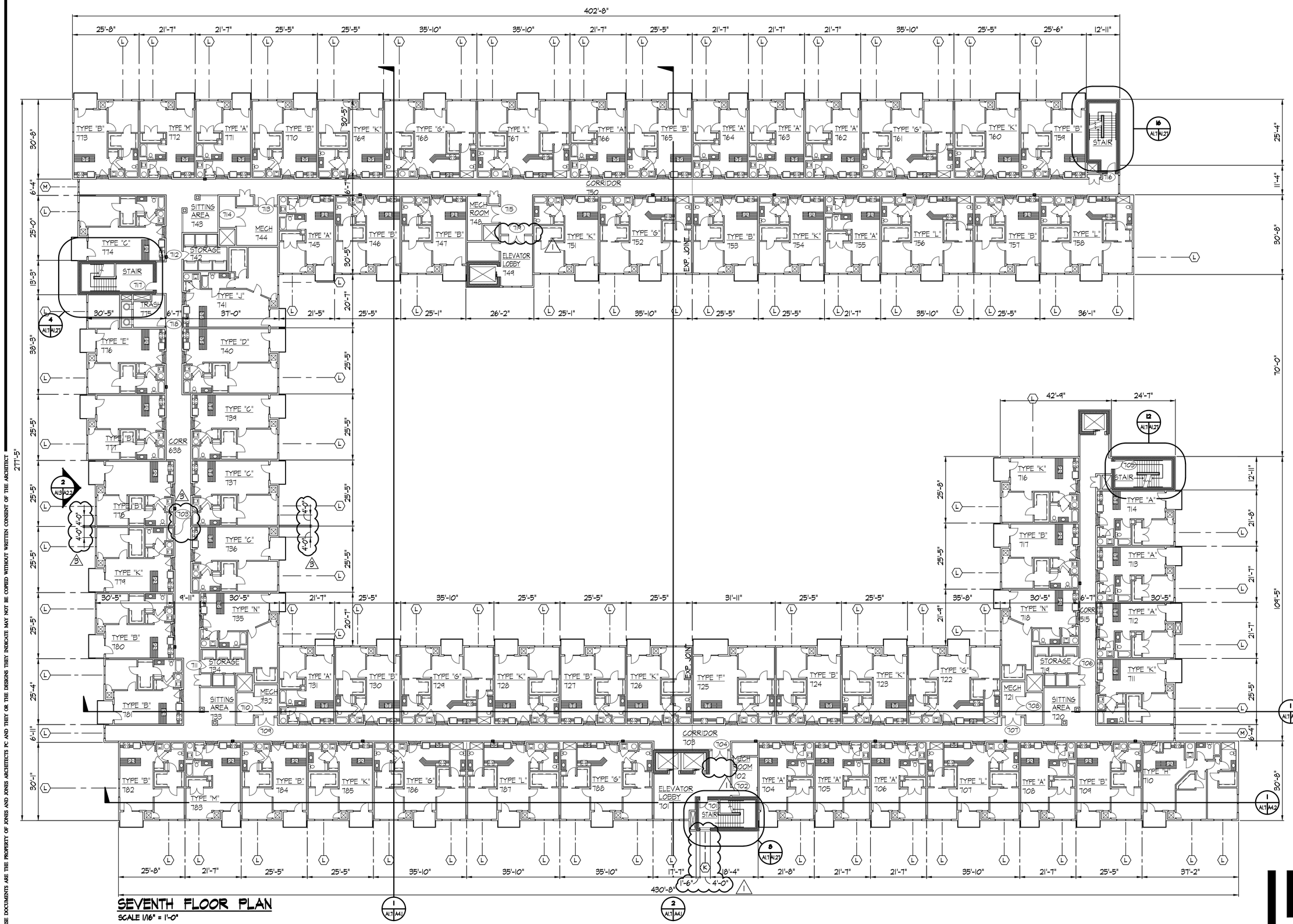

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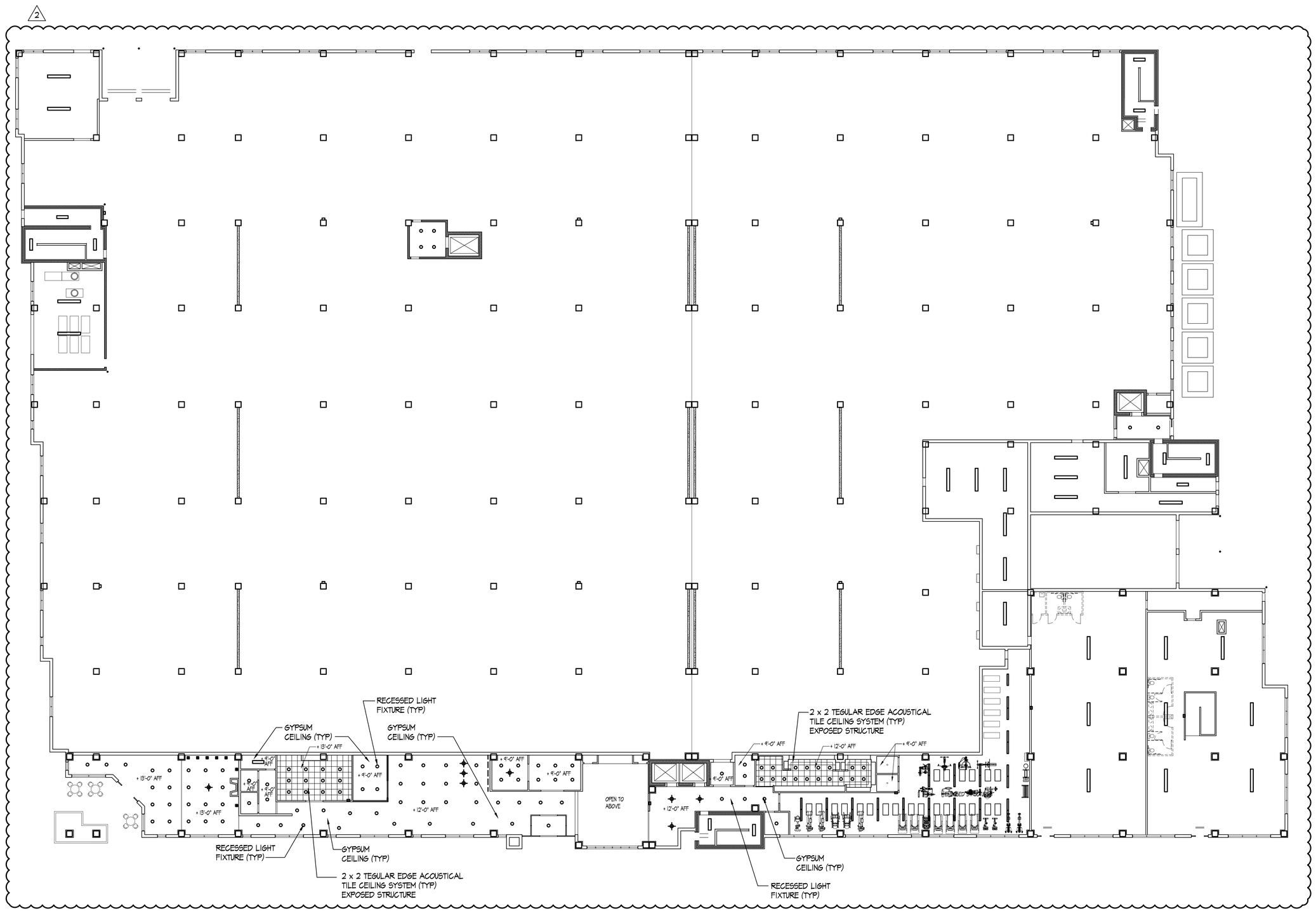
LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A1.7

JONES & JONES ASSOCIATES / ARCHITECTS PC



FIRST FLOOR REFLECTED CEILING PLAN

SCALE 1/16" = 1'-0"

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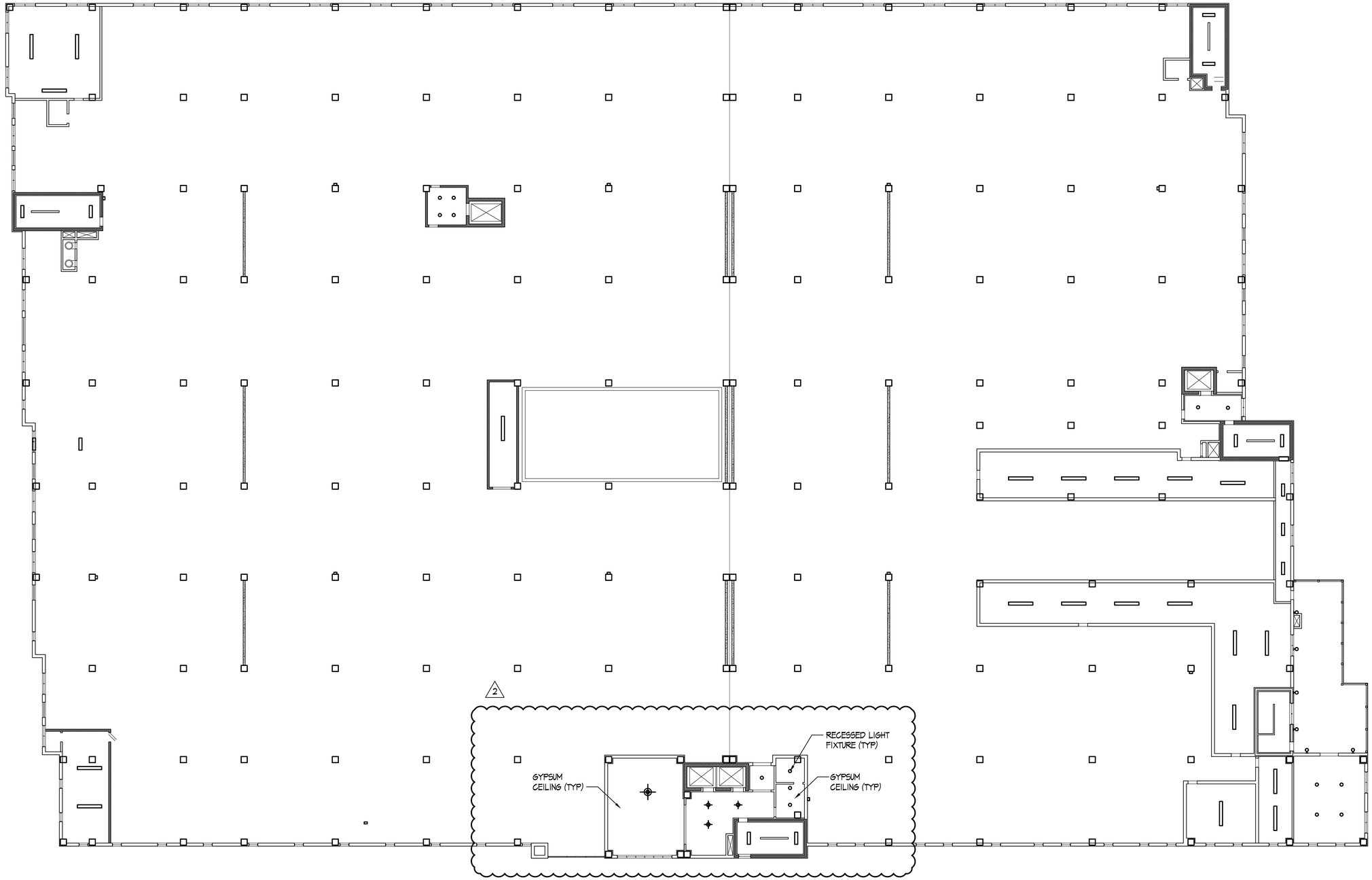
JONES & JONES ASSOCIATES / ARCHITECTS PC



SECOND FLOOR REFLECTED CEILING PLAN

SCALE 1/16" = 1'-0"

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2

BULKHEAD COORDINATE WITH HVAC

ACOUSTICAL TILE CEILING (TYP)

GYPSUM CEILING (TYPICAL)

LIGHT FIXTURE (TYPICAL)

BULKHEAD (TYP)

ACOUSTICAL TILE CEILING (TYP)

GYPSUM CEILING (TYPICAL)

LIGHT FIXTURE (TYPICAL)

GYPSUM CEILING (TYPICAL)

ACOUSTICAL TILE CEILING (TYP)

LIGHT FIXTURE (TYPICAL)

BULKHEAD COORDINATE WITH HVAC

THIRD FLOOR REFLECTED CEILING PLAN

SCALE 1/16" = 1'-0"

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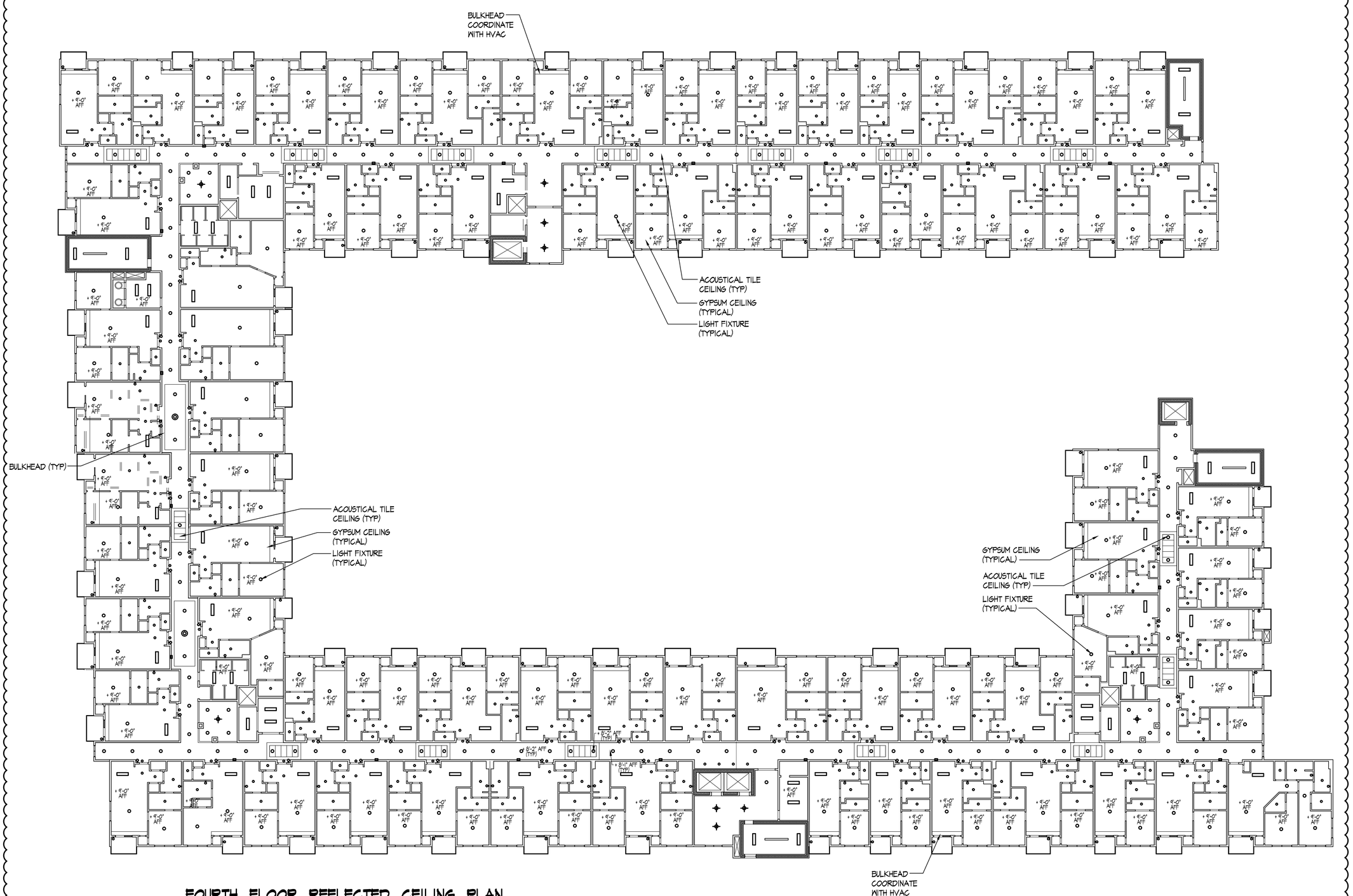
A1.10

JONES & JONES ASSOCIATES / ARCHITECTS PC

2



FOURTH FLOOR REFLECTED CEILING PLAN

SCALE 1/16" = 1'-0"

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JONES & JONES ASSOCIATES / ARCHITECTS PC

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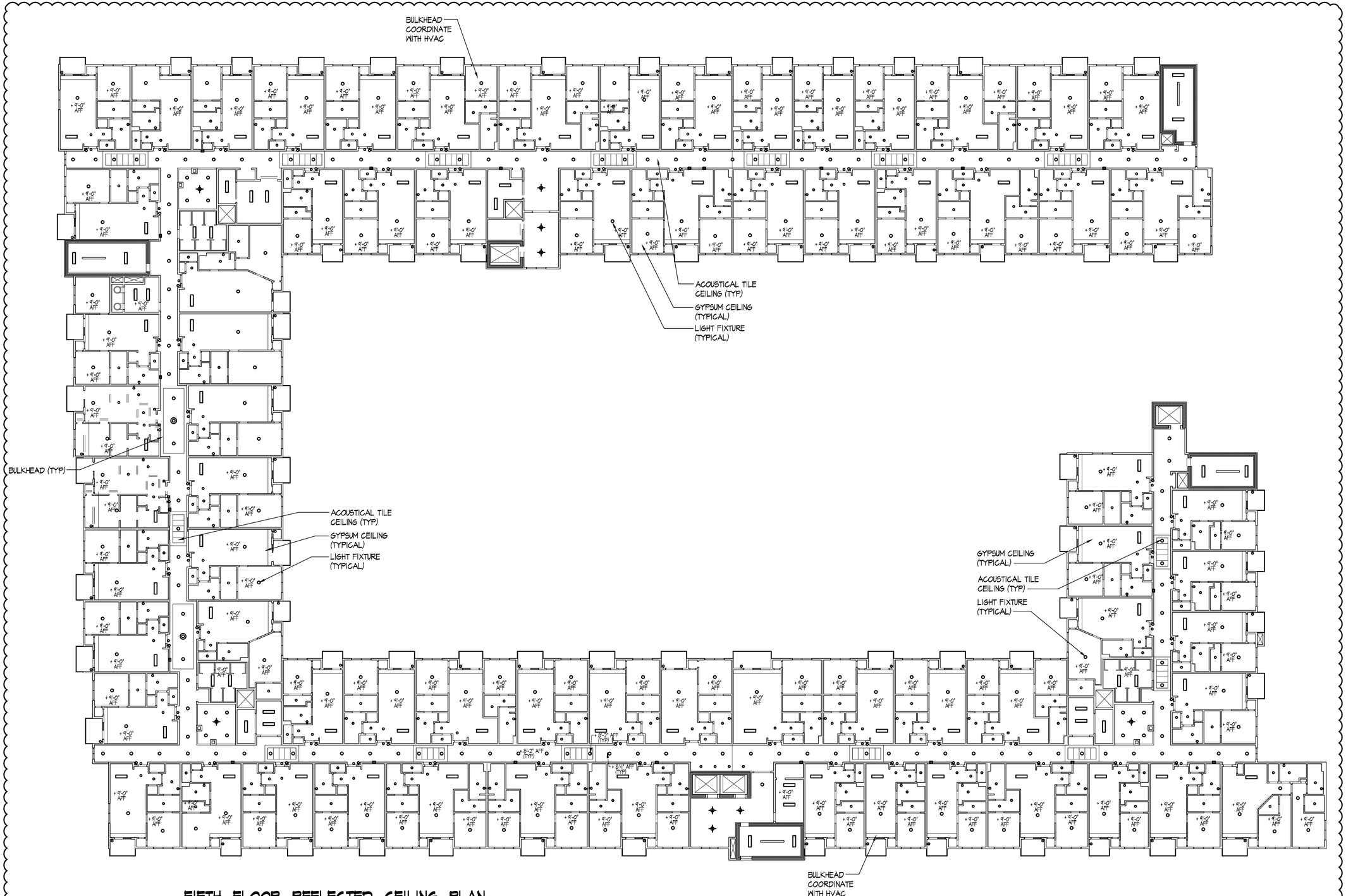

FIFTH FLOOR REFLECTED CEILING PLAN

SCALE 1/16" = 1'-0"

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JONES & JONES ASSOCIATES / ARCHITECTS PC

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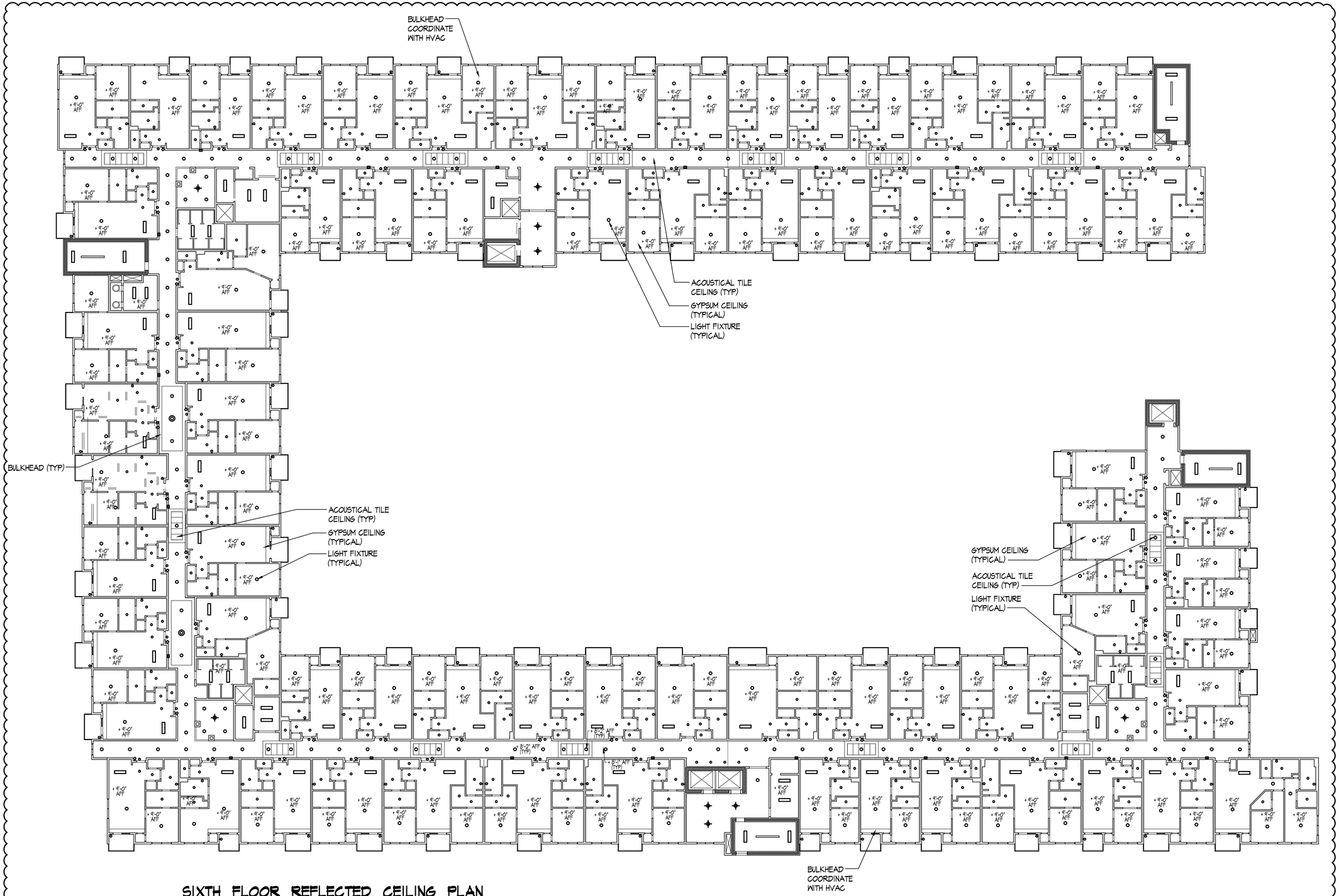

SIXTH FLOOR REFLECTED CEILING PLAN

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JONES & JONES ASSOCIATES / ARCHITECTS PC

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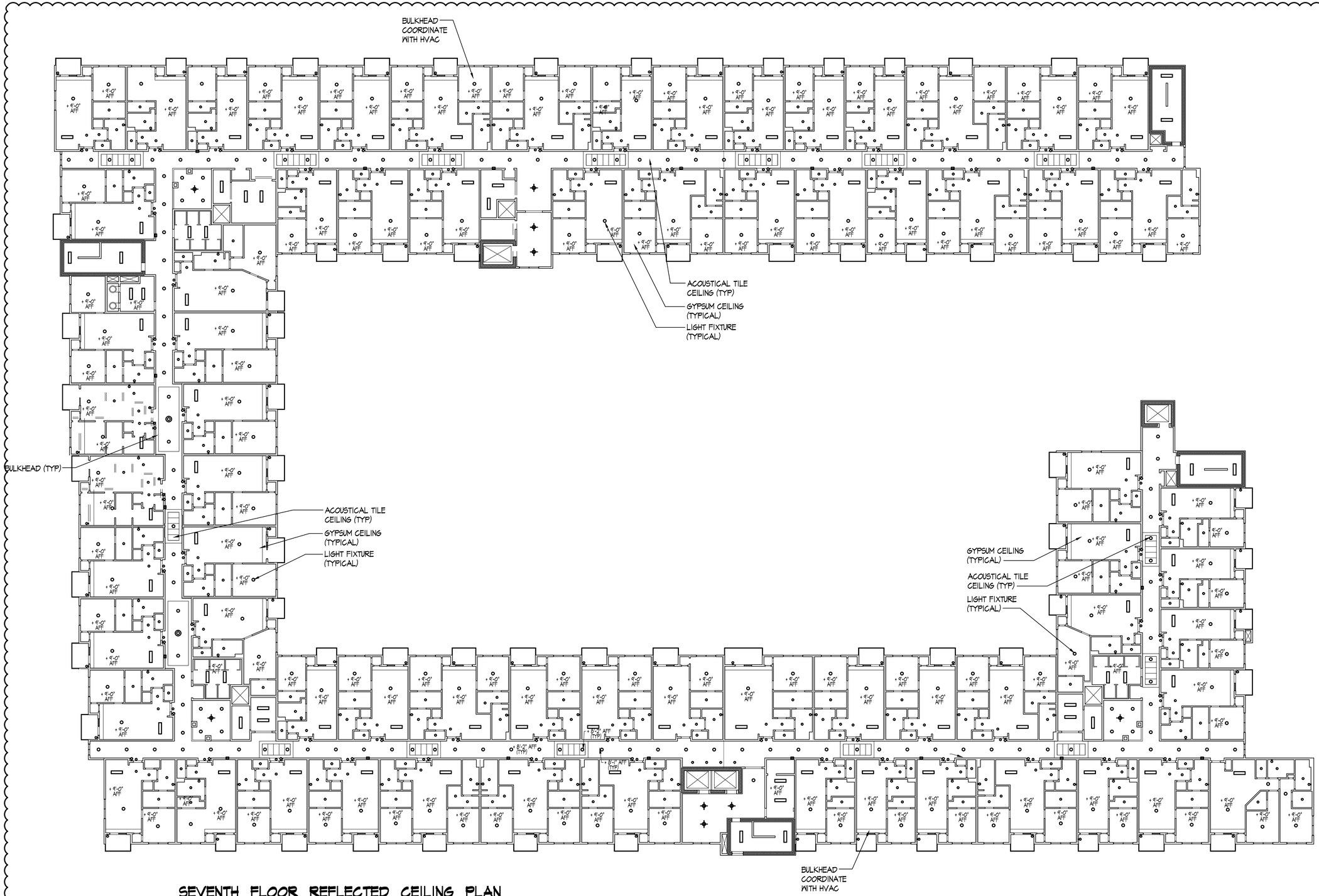

SEVENTH FLOOR REFLECTED CEILING PLAN

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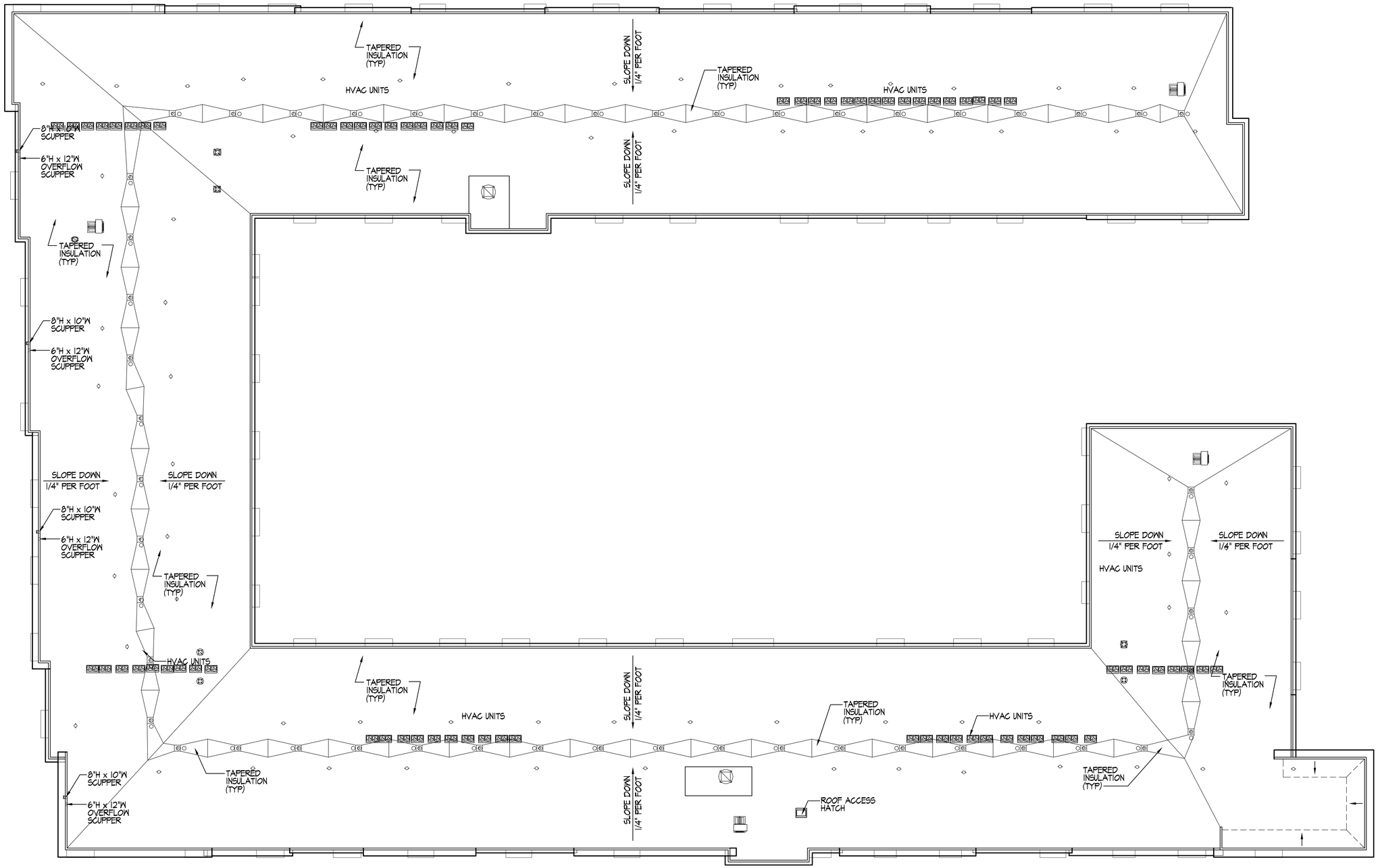

ROOF PLAN

SCALE 1/16" = 1'-0"

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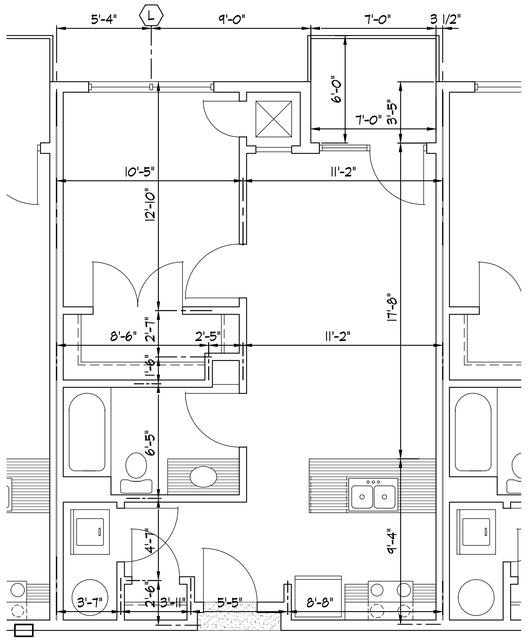
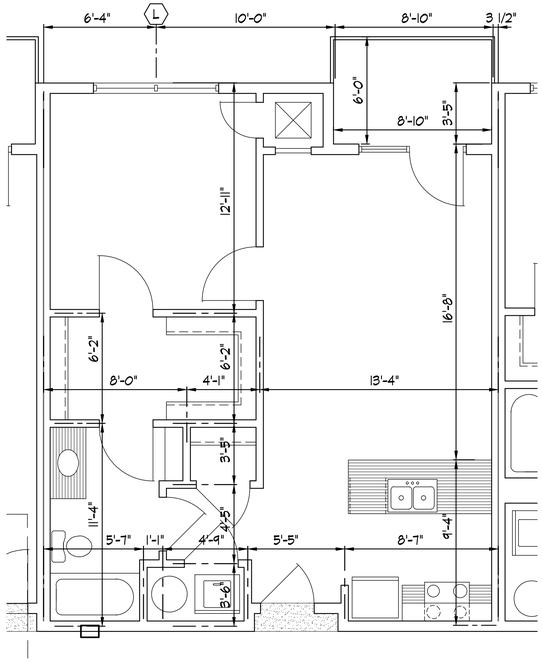
JONES & JONES ASSOCIATES / ARCHITECTS PC



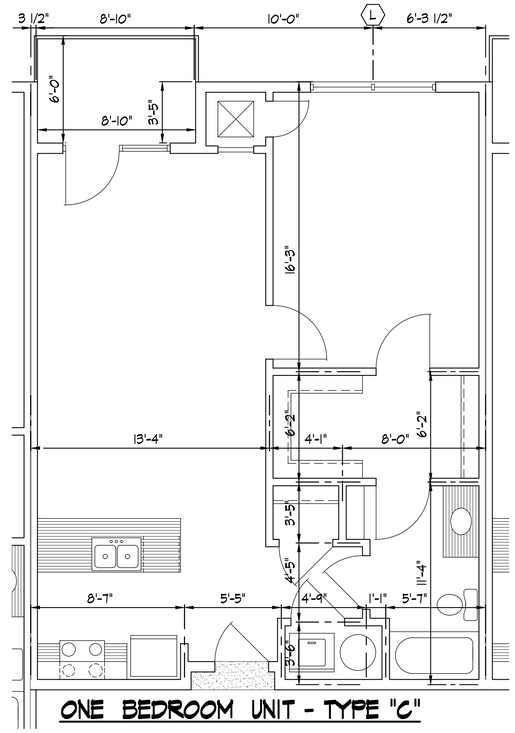
ONE BEDROOM UNIT - TYPE "A"

SCALE 1/4" = 1'-0"



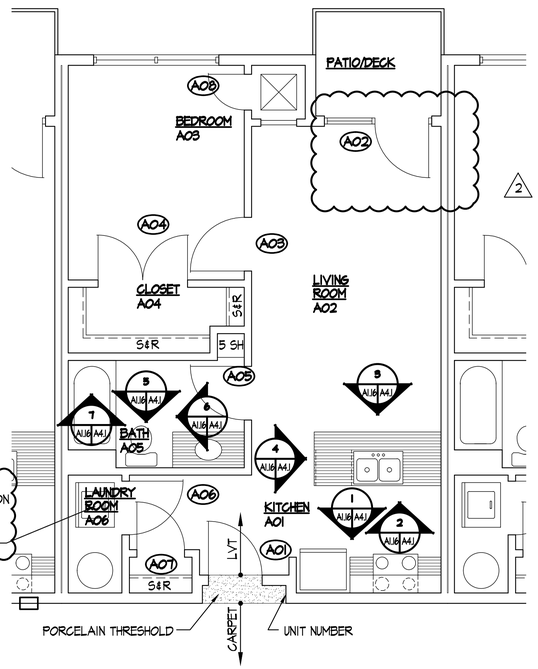
ONE BEDROOM UNIT - TYPE "B"

SCALE 1/4" = 1'-0"



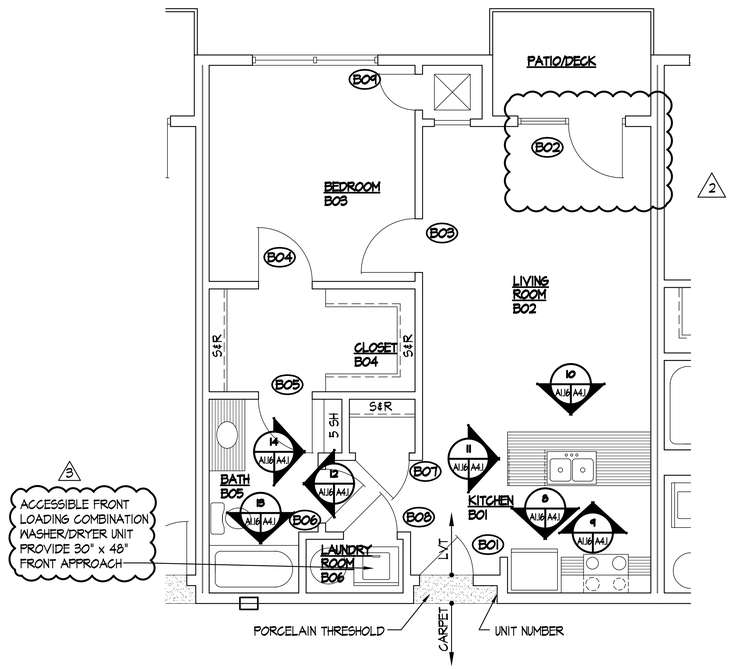
ONE BEDROOM UNIT - TYPE "C"

SCALE 1/4" = 1'-0"



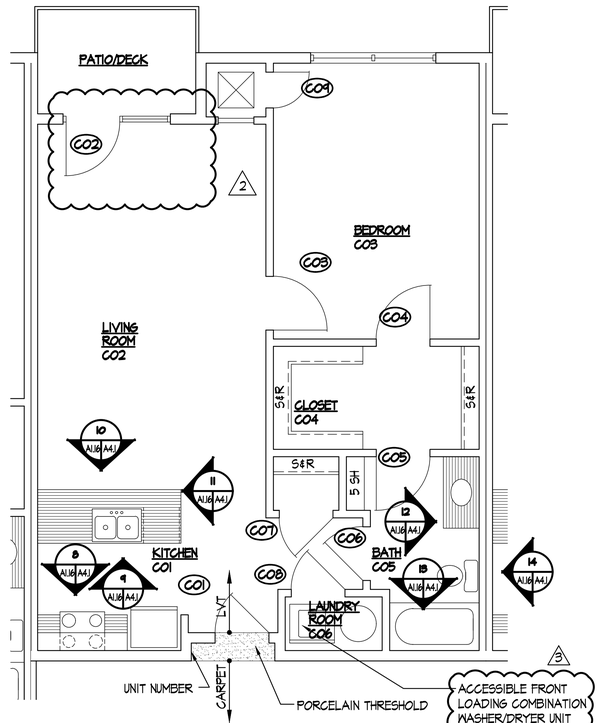
ONE BEDROOM UNIT - TYPE "A"

SCALE 1/4" = 1'-0"



ONE BEDROOM UNIT - TYPE "B"

SCALE 1/4" = 1'-0"



ONE BEDROOM UNIT - TYPE "C"

SCALE 1/4" = 1'-0"

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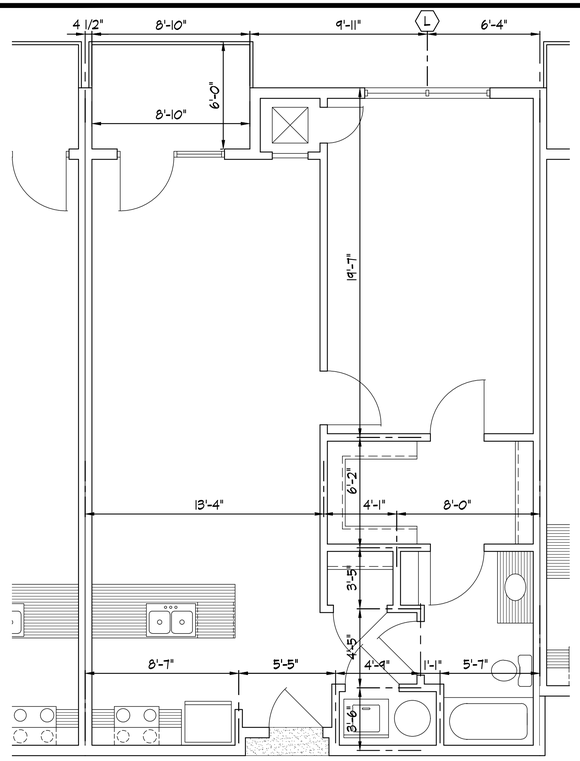
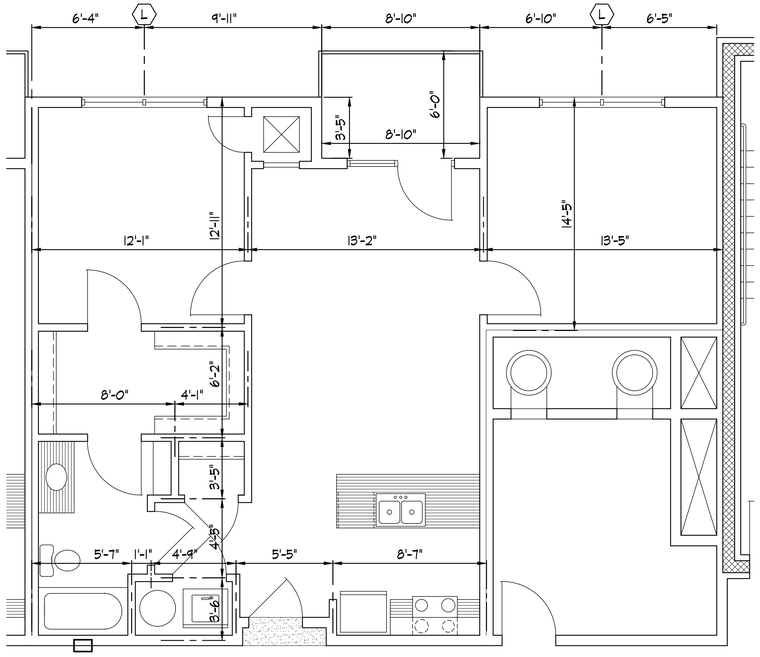


ONE BEDROOM UNIT - TYPE "D"

SCALE 1/4" = 1'-0"



ONE BEDROOM UNIT - TYPE "E"

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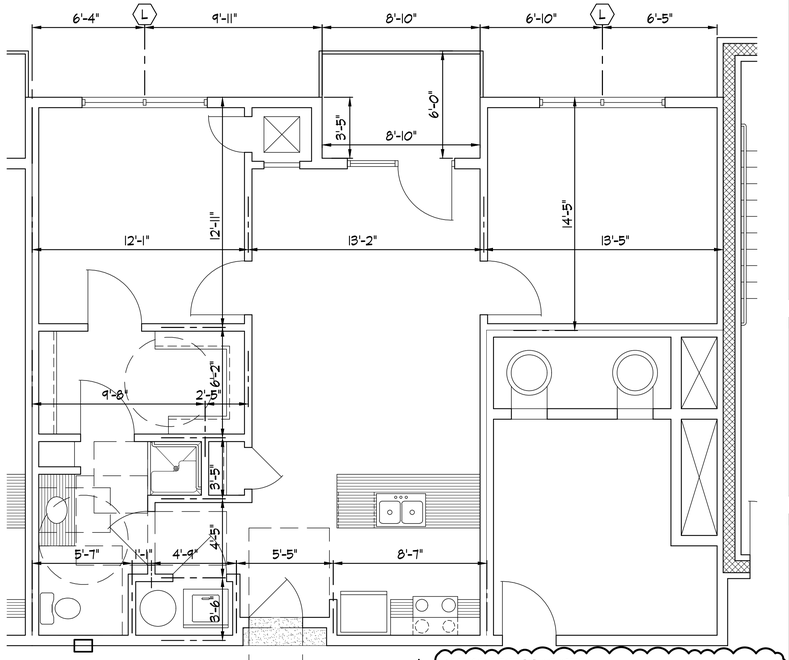
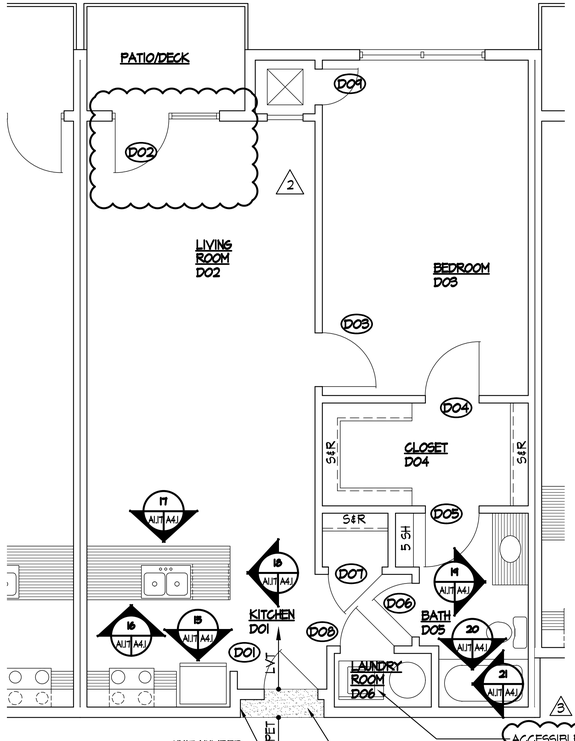


ONE BEDROOM UNIT - TYPE "E - ADA"

SCALE 1/4" = 1'-0"

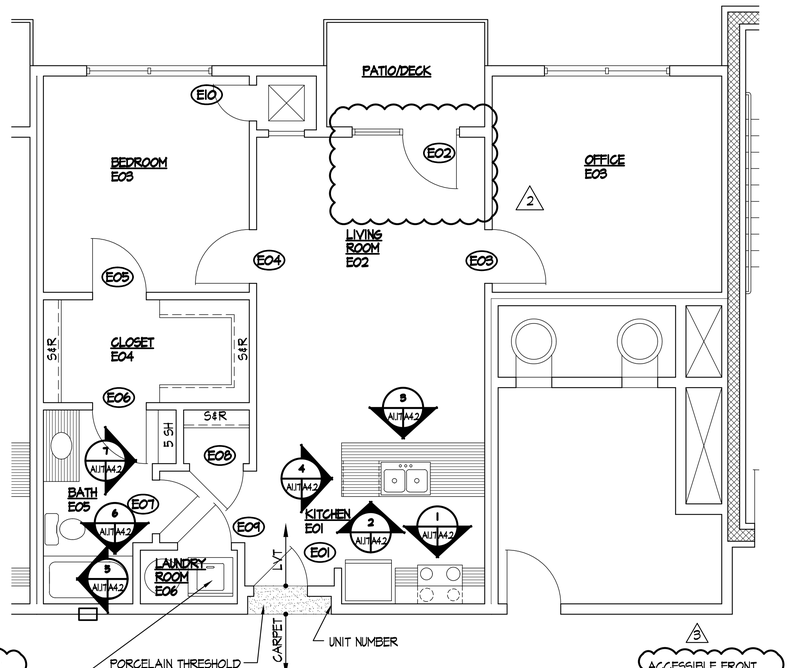
3 ACCESSIBLE TYPE "A" UNIT NOTES
ALL LIGHTING CONTROLS, ELECTRICAL PANELBOARDS, ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS, ENVIRONMENTAL CONTROLS, APPLIANCE CONTROLS, OPERATING HARDWARE FOR OPERABLE WINDOWS, PLUMBING FIXTURE CONTROLS, AND USER CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL BE MOUNTED AT ACCESSIBLE HEIGHTS AS FOLLOWS:
- BETWEEN 15" AND 48" AFF WHERE NO OBSTRUCTIONS
- 44" MAX AFF AT ALL COUNTERTOP AND CASEWORK LOCATIONS



ONE BEDROOM UNIT - TYPE "D"

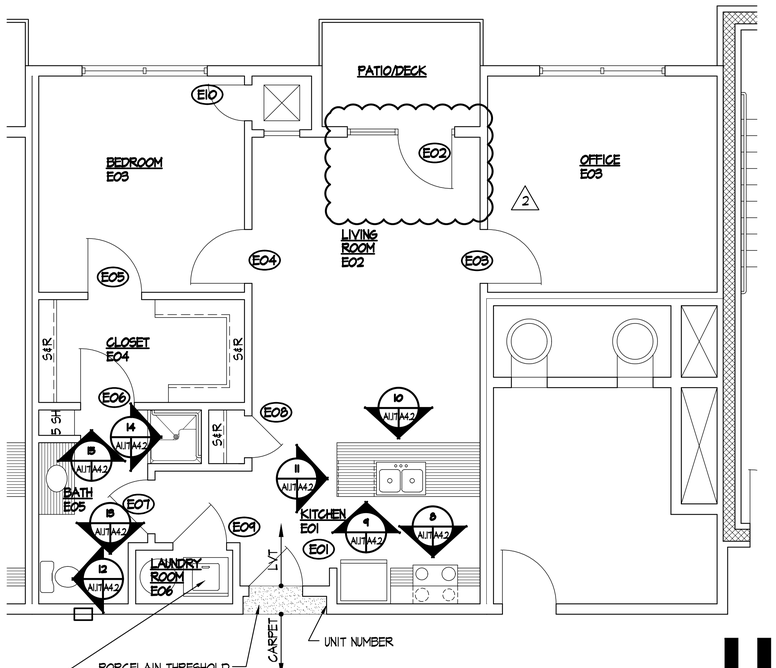
SCALE 1/4" = 1'-0"

3 ACCESSIBLE FRONT LOADING COMBINATION WASHER/DRYER UNIT PROVIDE 30" x 48" FRONT APPROACH



ONE BEDROOM UNIT - TYPE "E"

SCALE 1/4" = 1'-0"



ONE BEDROOM UNIT - TYPE "E - ADA"

SCALE 1/4" = 1'-0"

3 ACCESSIBLE FRONT LOADING COMBINATION WASHER/DRYER UNIT PROVIDE 30" x 48" FRONT APPROACH

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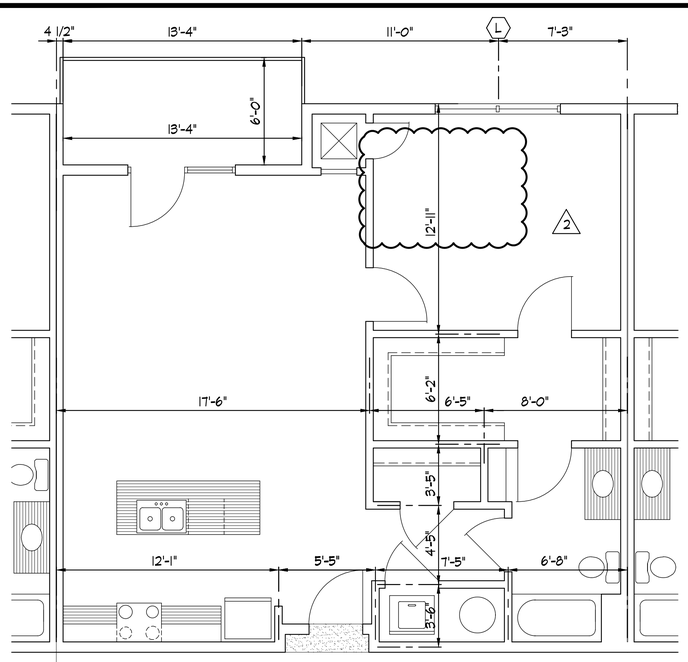
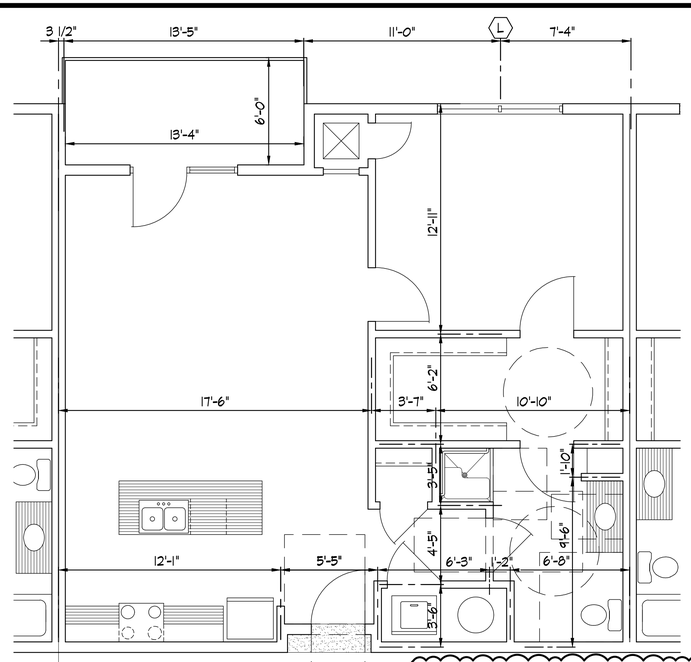


ONE BEDROOM UNIT - TYPE "F"

SCALE 1/4" = 1'-0"



ADA ONE BEDROOM UNIT - TYPE "F-ADA"

SCALE 1/4" = 1'-0"

3 ACCESSIBLE TYPE "A" UNIT NOTES
ALL LIGHTING CONTROLS, ELECTRICAL PANELBOARDS, ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS, ENVIRONMENTAL CONTROLS, APPLIANCE CONTROLS, OPERATING HARDWARE FOR OPERABLE WINDOWS, PLUMBING FIXTURE CONTROLS, AND USER CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL BE MOUNTED AT ACCESSIBLE HEIGHTS AS FOLLOWS:
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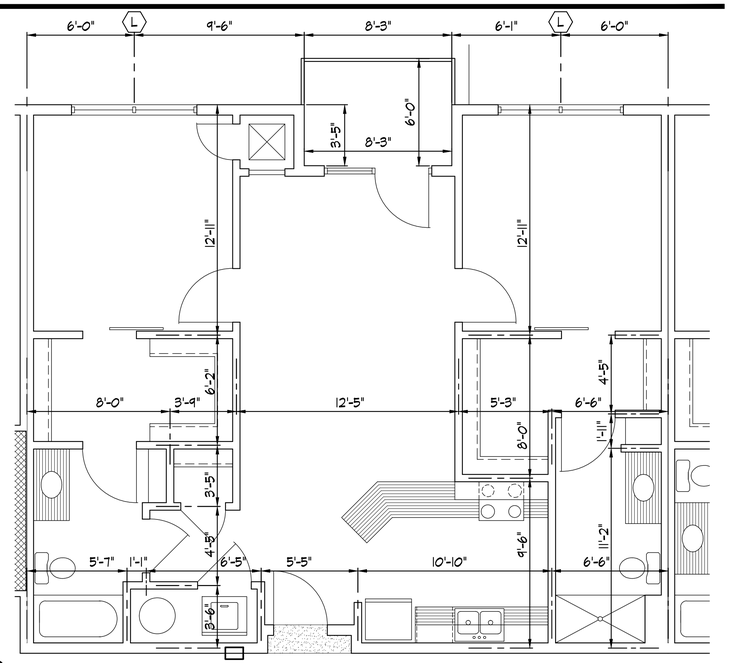
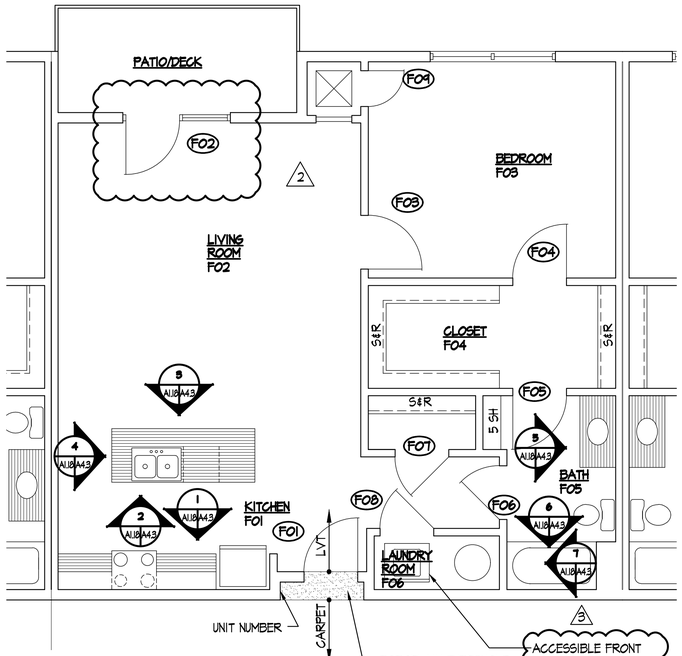


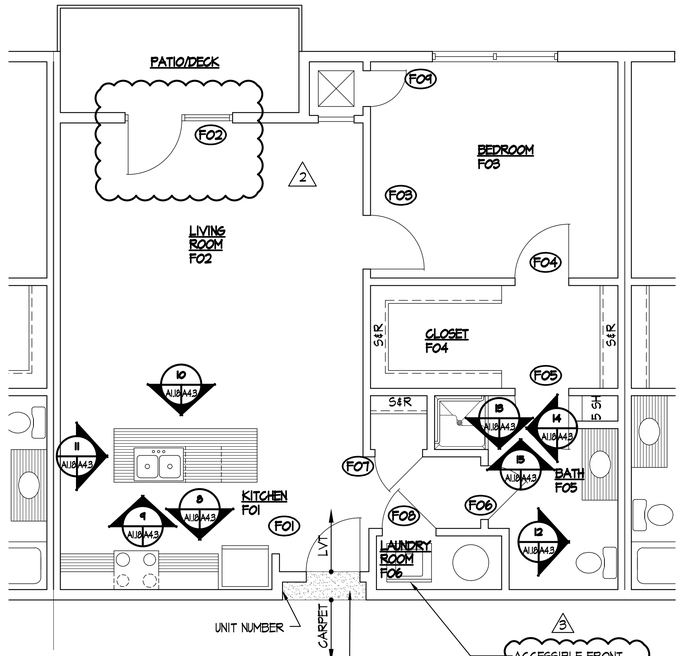
TWO BEDROOM UNIT - TYPE "G"

SCALE 1/4" = 1'-0"



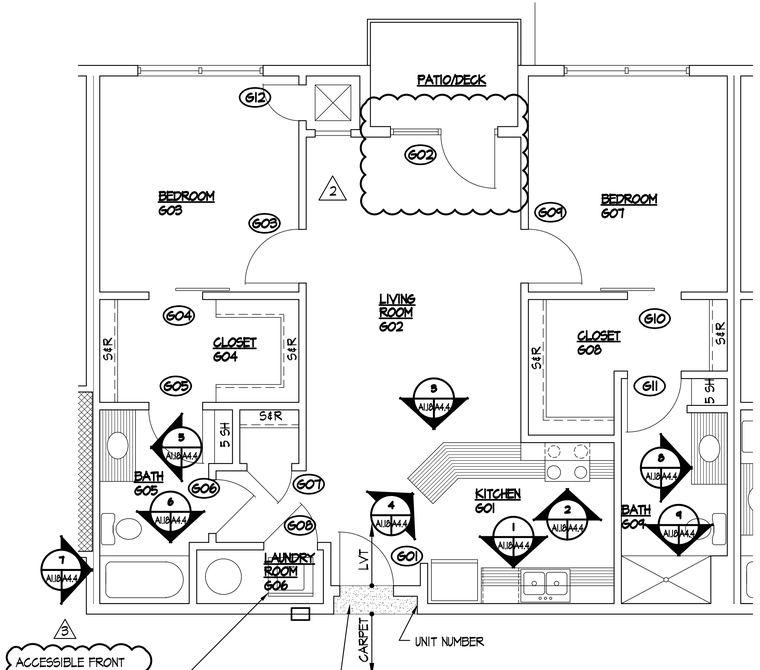
ONE BEDROOM UNIT - TYPE "F"

SCALE 1/4" = 1'-0"



ADA ONE BEDROOM UNIT - TYPE "F-ADA"

SCALE 1/4" = 1'-0"



TWO BEDROOM UNIT - TYPE "G"

SCALE 1/4" = 1'-0"

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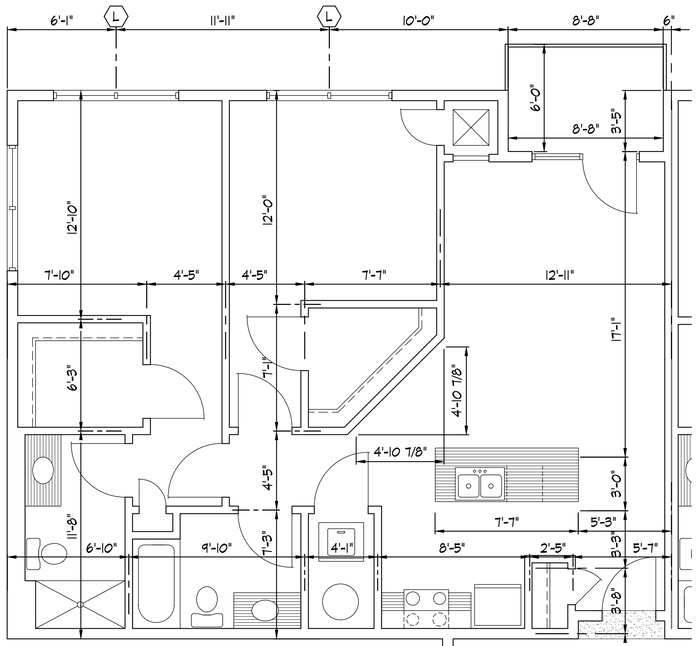
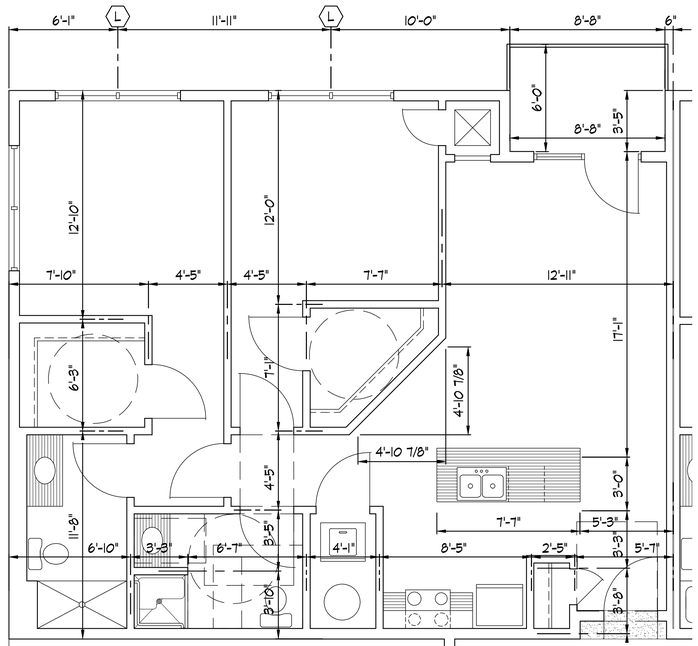


TWO BEDROOM UNIT - TYPE "H"

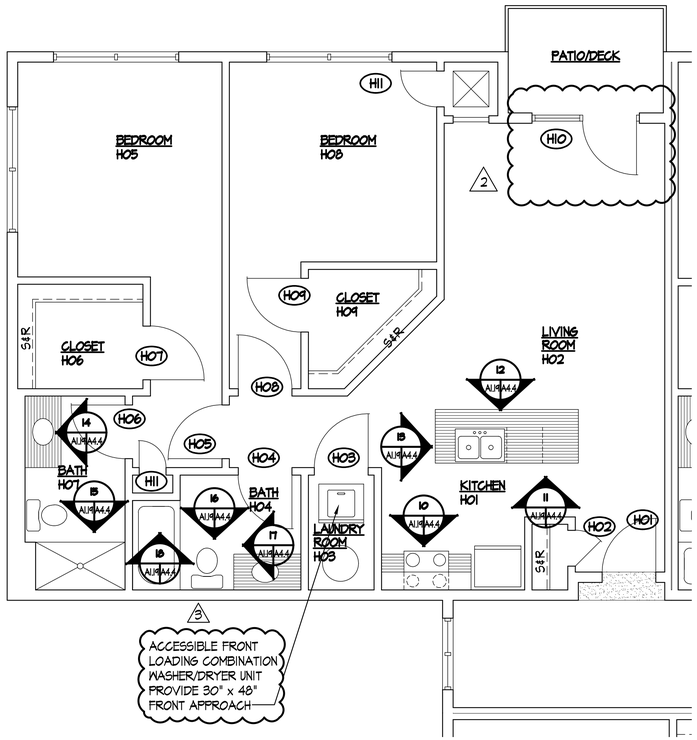
SCALE 1/4" = 1'-0"



TWO BEDROOM UNIT - TYPE "H-ADA"

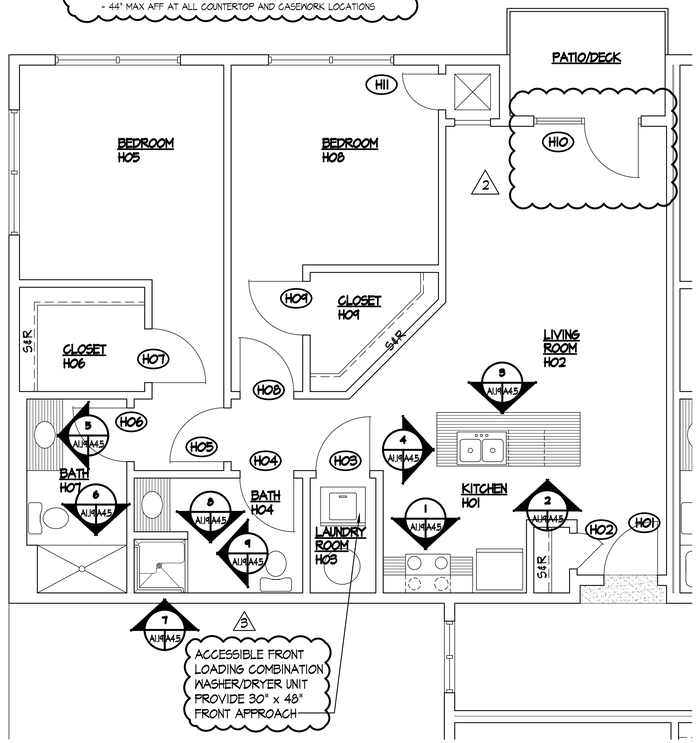
SCALE 1/4" = 1'-0"

3 ACCESSIBLE TYPE "A" UNIT NOTES
ALL LIGHTING CONTROLS, ELECTRICAL PANELBOARDS, ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS, ENVIRONMENTAL CONTROLS, APPLIANCE CONTROLS, OPERATING HARDWARE FOR OPERABLE WINDOWS, PLUMBING FIXTURE CONTROLS, AND USER CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL BE MOUNTED AT ACCESSIBLE HEIGHTS AS FOLLOWS:
- BETWEEN 15" AND 48" AFF WHERE NO OBSTRUCTIONS
- 44" MAX AFF AT ALL COUNTERTOP AND CASEWORK LOCATIONS



TWO BEDROOM UNIT - TYPE "H"

SCALE 1/4" = 1'-0"



TWO BEDROOM UNIT - TYPE "H-ADA"

SCALE 1/4" = 1'-0"

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LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
18 JUN 2021

A1.19

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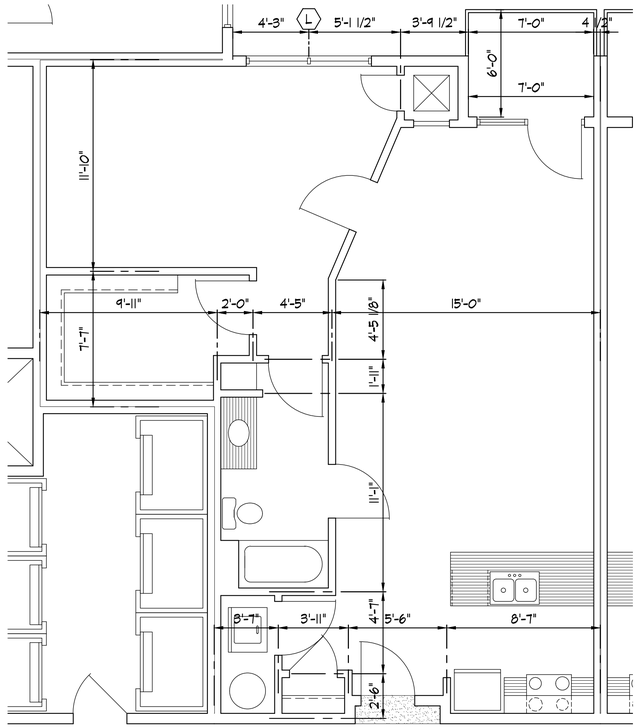
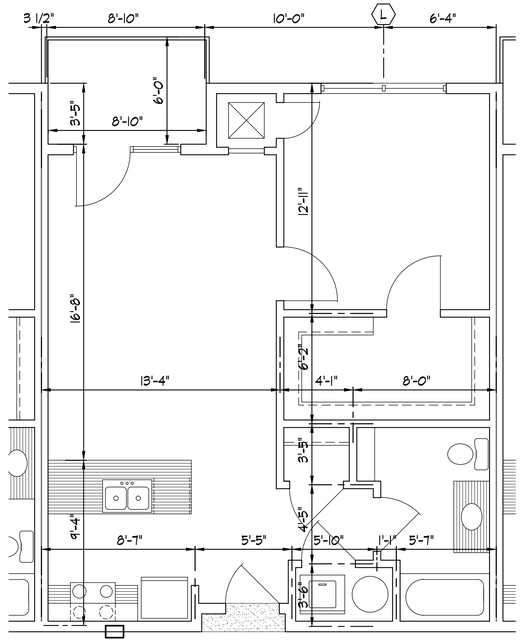


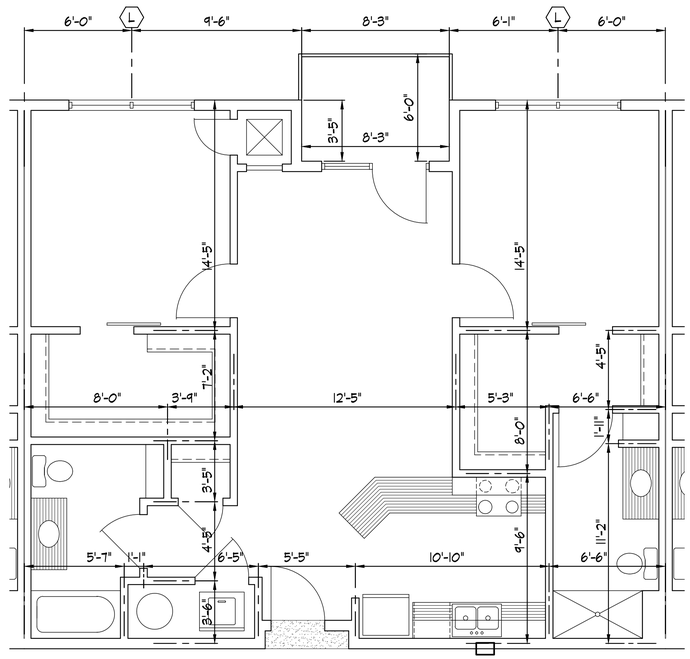
ONE BEDROOM UNIT - TYPE "J"

SCALE 1/4" = 1'-0"



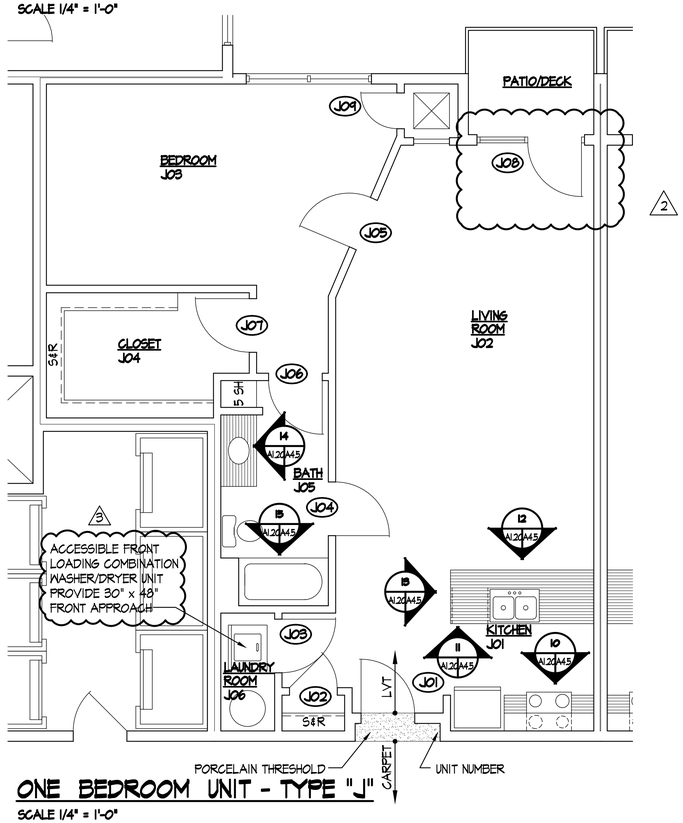
ONE BEDROOM UNIT - TYPE "K"

SCALE 1/4" = 1'-0"



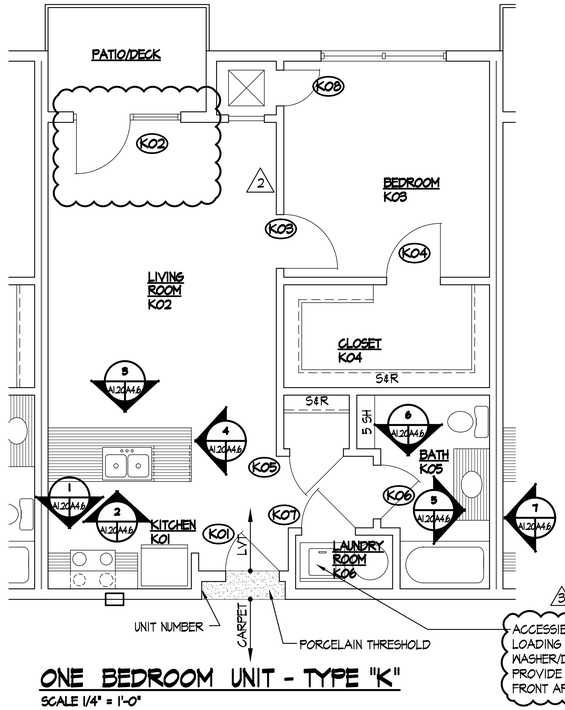
TWO BEDROOM UNIT - TYPE "L"

SCALE 1/4" = 1'-0"



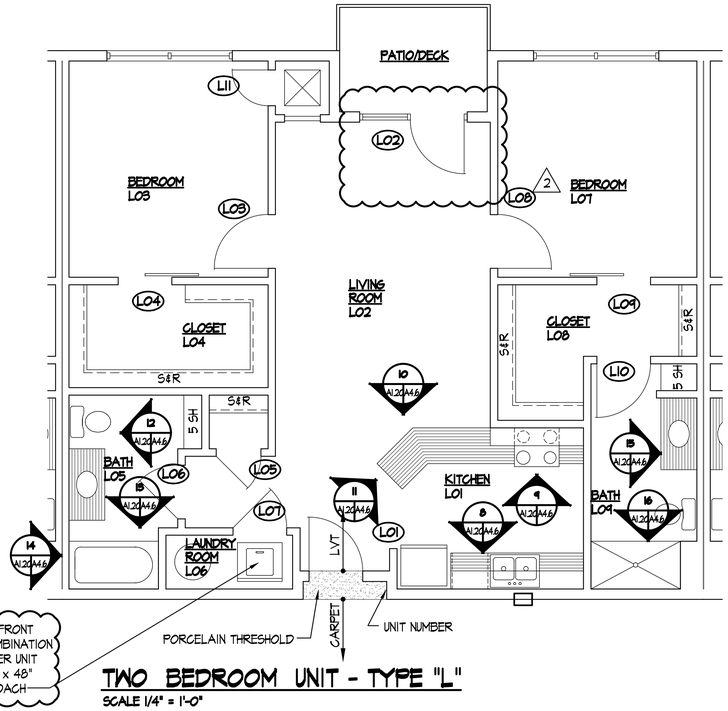
ONE BEDROOM UNIT - TYPE "J"

SCALE 1/4" = 1'-0"



ONE BEDROOM UNIT - TYPE "K"

SCALE 1/4" = 1'-0"



TWO BEDROOM UNIT - TYPE "L"

SCALE 1/4" = 1'-0"

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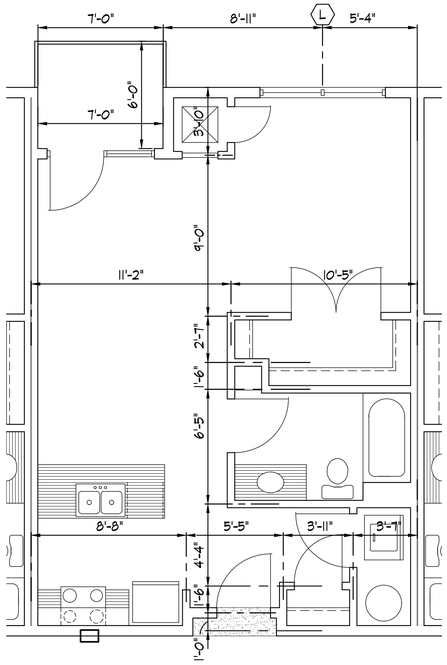
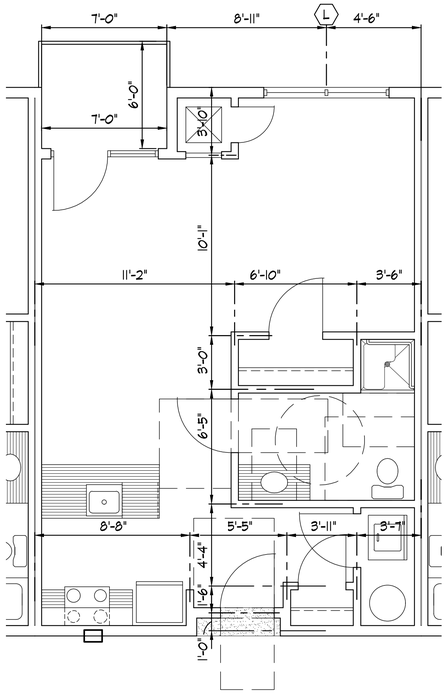


STUDIO UNIT - TYPE "M"
SCALE 1/4" = 1'-0"



STUDIO UNIT - TYPE "M-ADA"
SCALE 1/4" = 1'-0"

3 ACCESSIBLE TYPE 'A' UNIT NOTES
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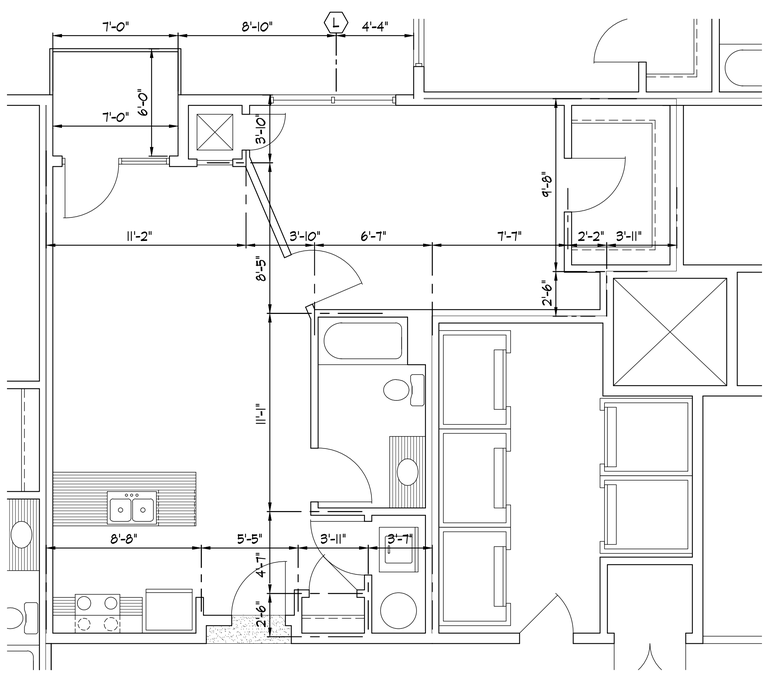
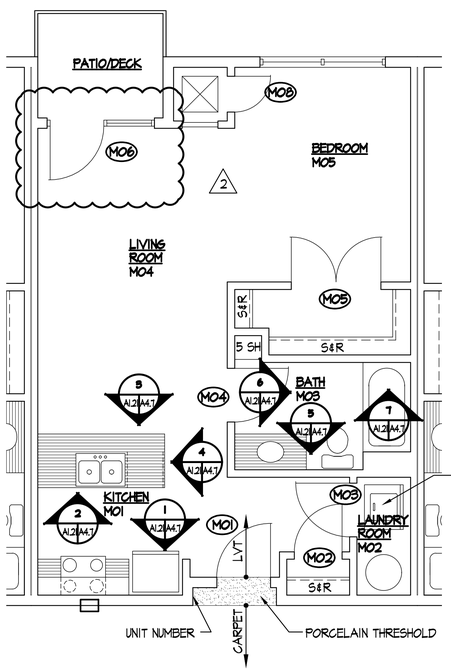
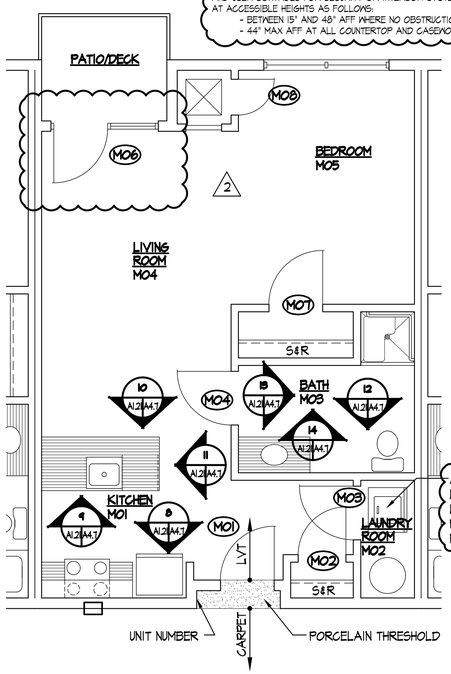


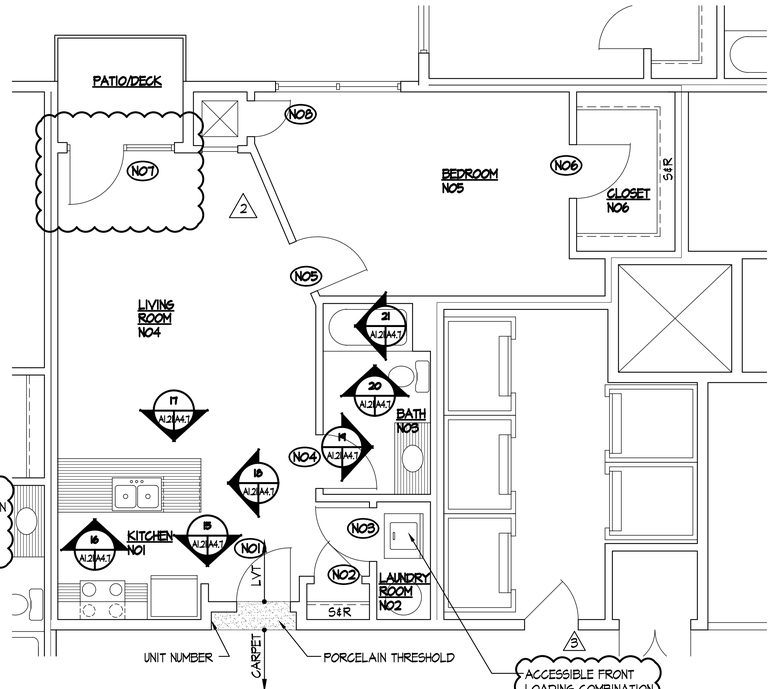
ONE BEDROOM UNIT - TYPE "N"
SCALE 1/4" = 1'-0"



STUDIO UNIT - TYPE "M"
SCALE 1/4" = 1'-0"



STUDIO UNIT - TYPE "M-ADA"
SCALE 1/4" = 1'-0"



ONE BEDROOM UNIT - TYPE "N"
SCALE 1/4" = 1'-0"

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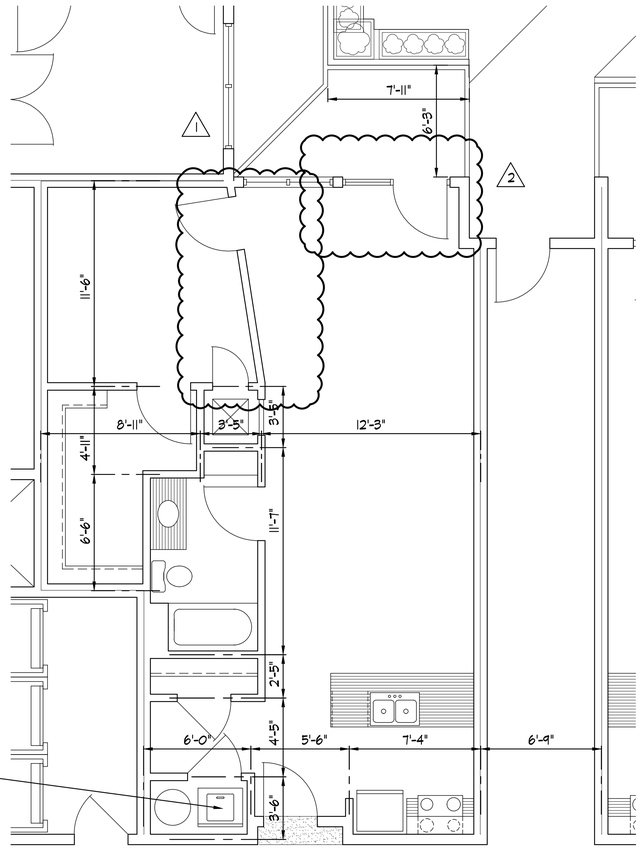
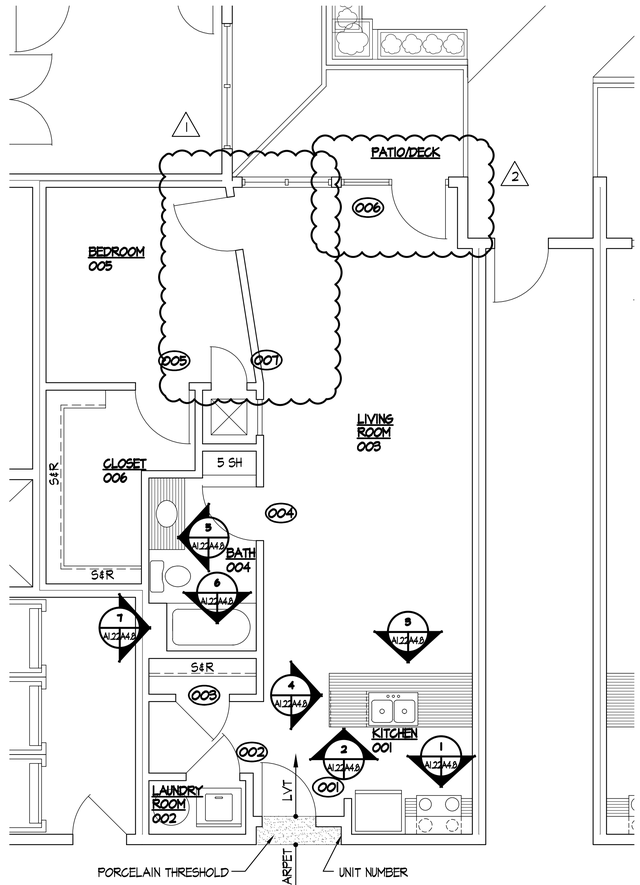


ONE BEDROOM UNIT - TYPE "O"

SCALE 1/4" = 1'-0"



ONE BEDROOM UNIT - TYPE "O"

SCALE 1/4" = 1'-0"

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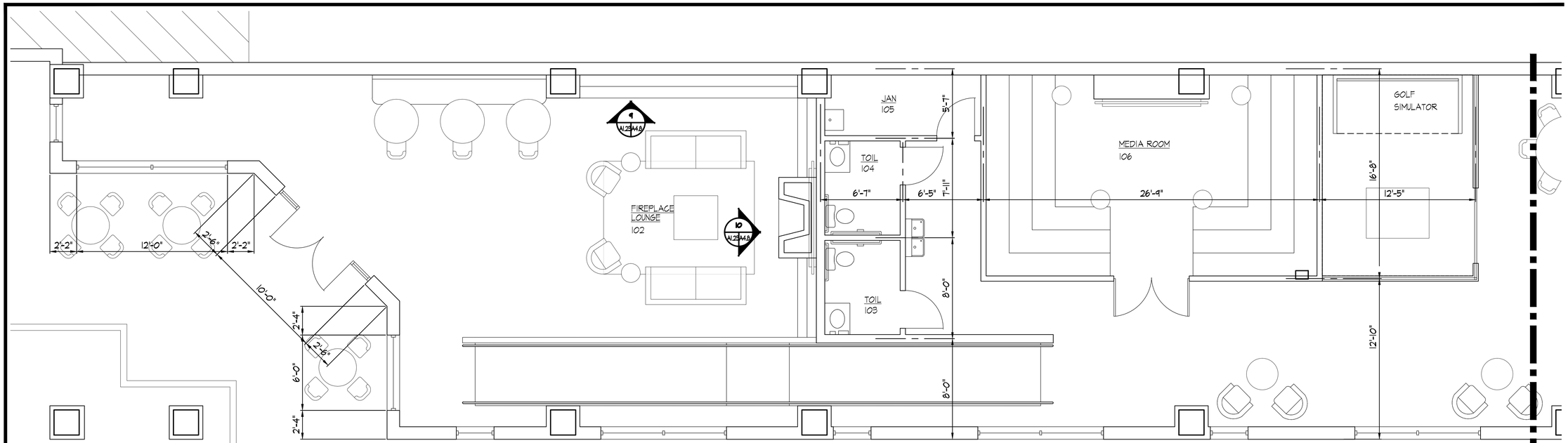
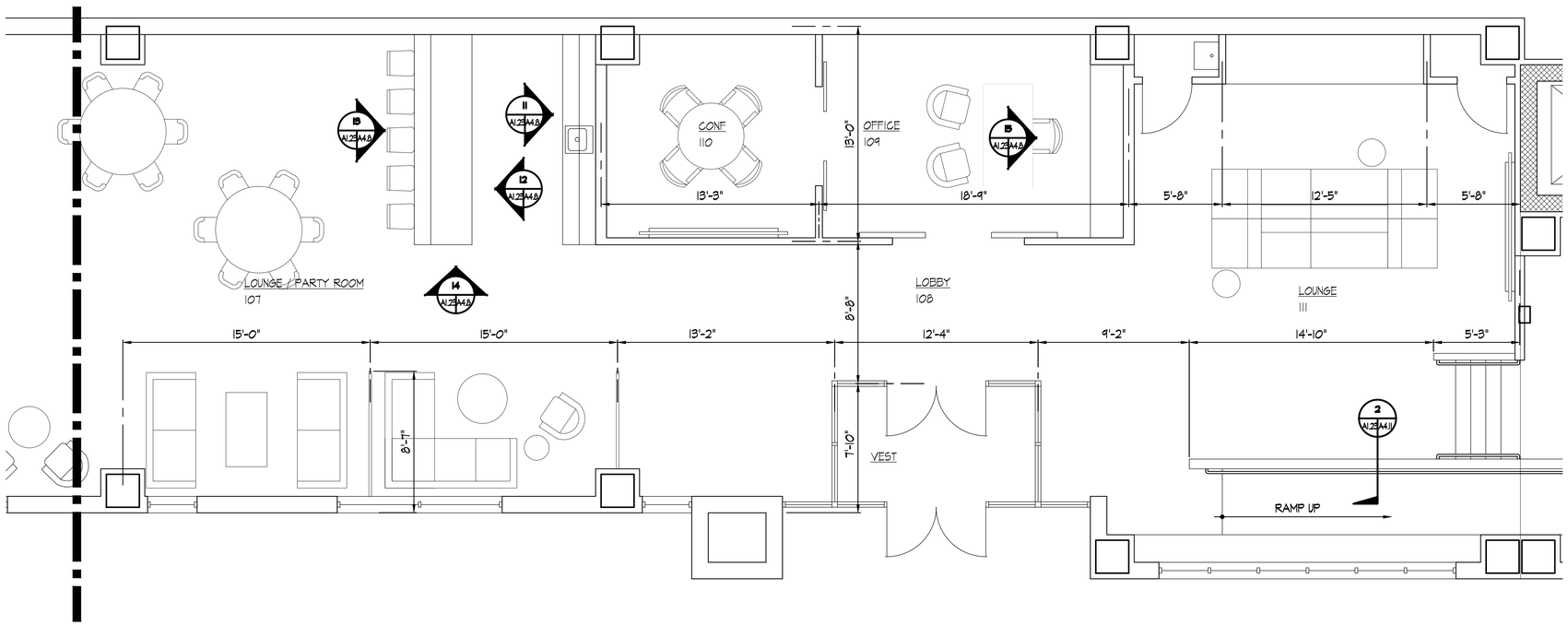


LARGE SCALE
AMENITIES FLOOR PLAN

SCALE 1/4" = 1'-0"

1 | A1.1 | A1.23



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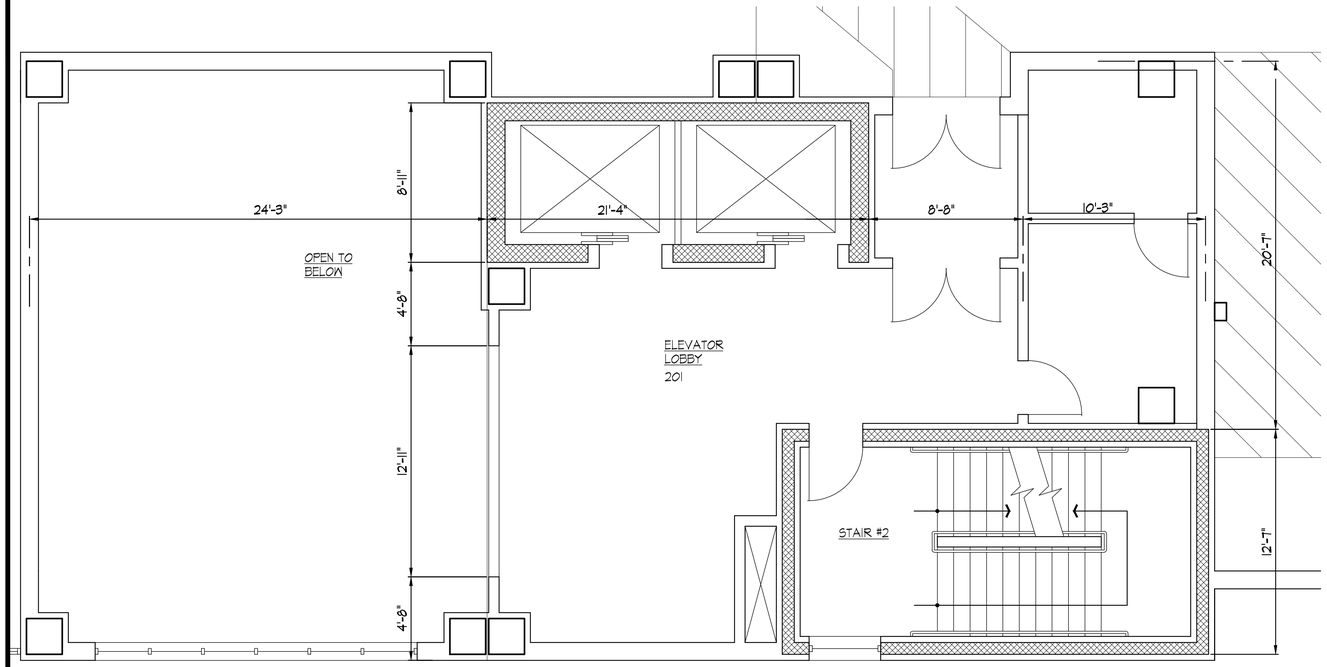
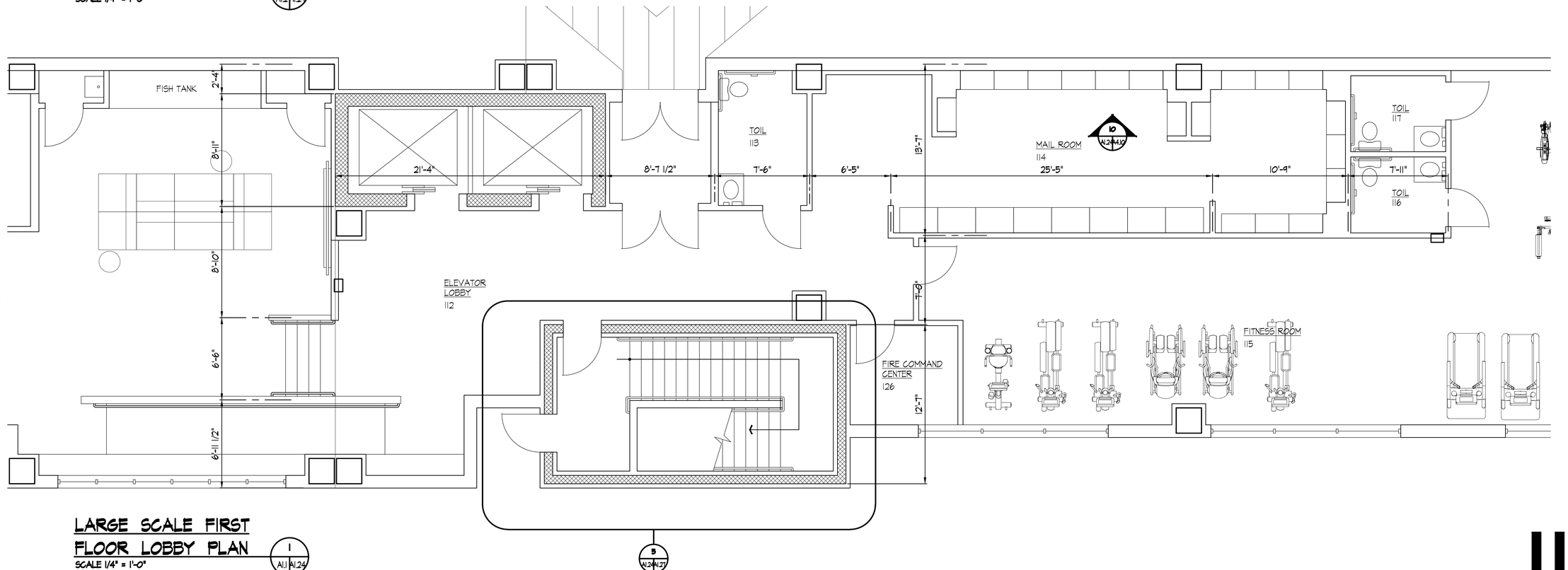


LARGE SCALE SECOND FLOOR LOBBY PLAN

2 A1.2/A1.24

SCALE 1/4" = 1'-0"



LARGE SCALE FIRST FLOOR LOBBY PLAN

1 A1.1/A1.24

SCALE 1/4" = 1'-0"

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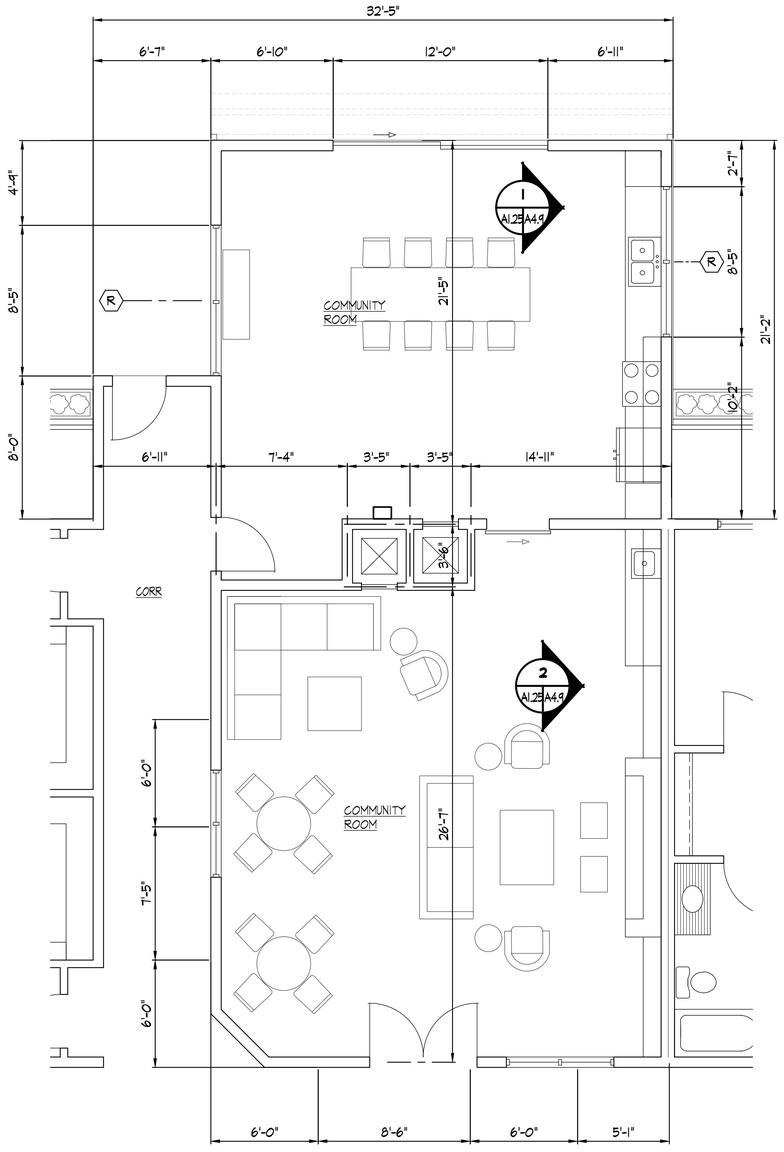
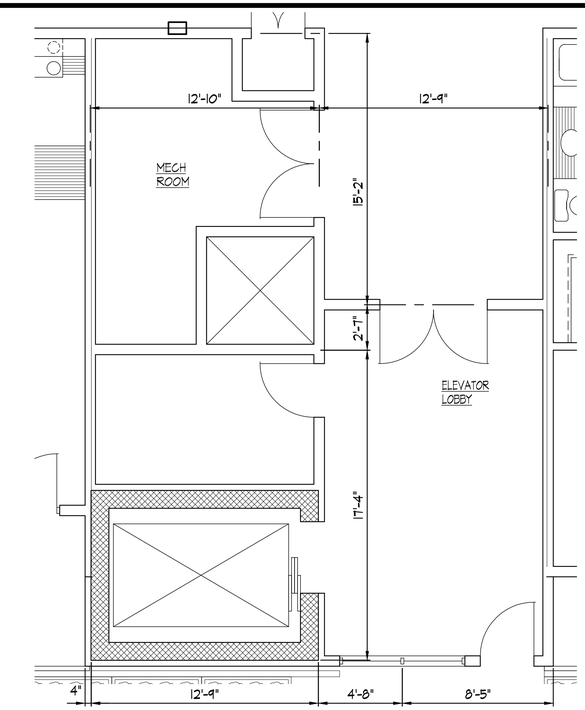


LARGE SCALE FLOOR PLAN

SCALE 1/4" = 1'-0"

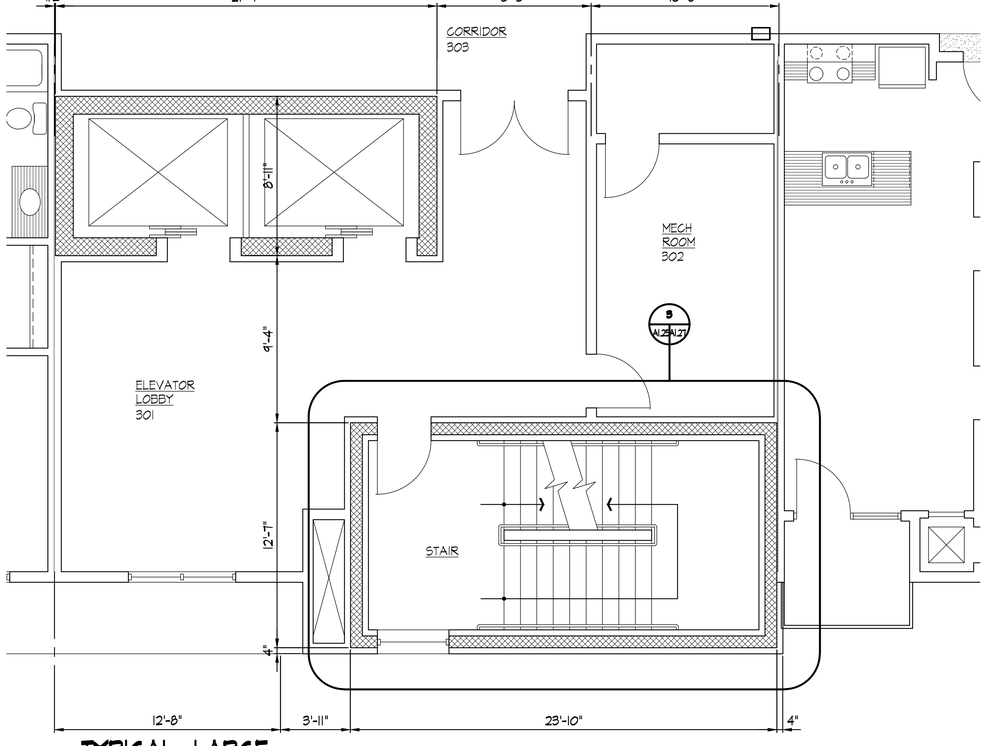
1 A1.3 A1.25



TYPICAL LARGE SCALE LOBBY PLAN

SCALE 1/4" = 1'-0"

2 A1.3 A1.24



TYPICAL LARGE SCALE LOBBY PLAN

SCALE 1/4" = 1'-0"

3 A1.3 A1.24

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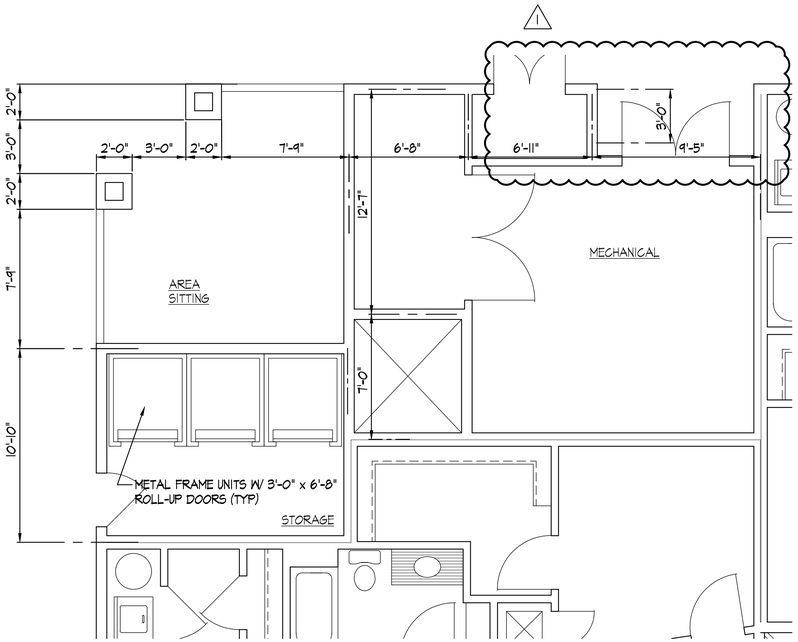
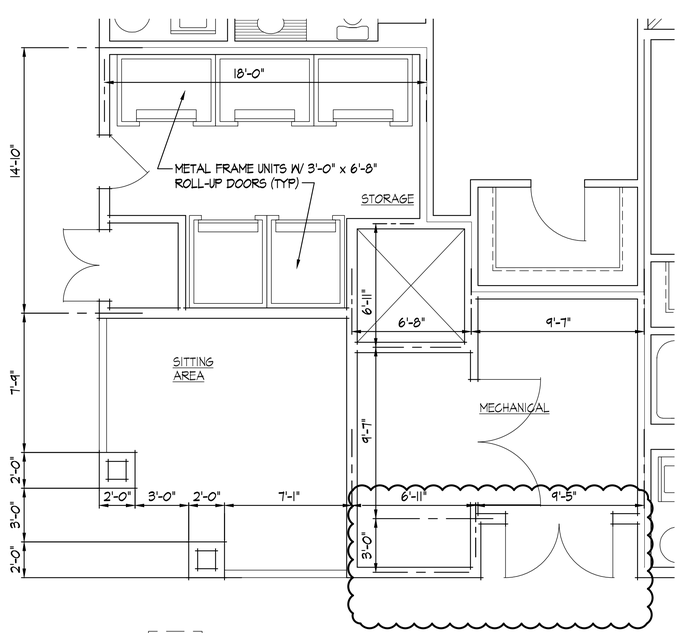
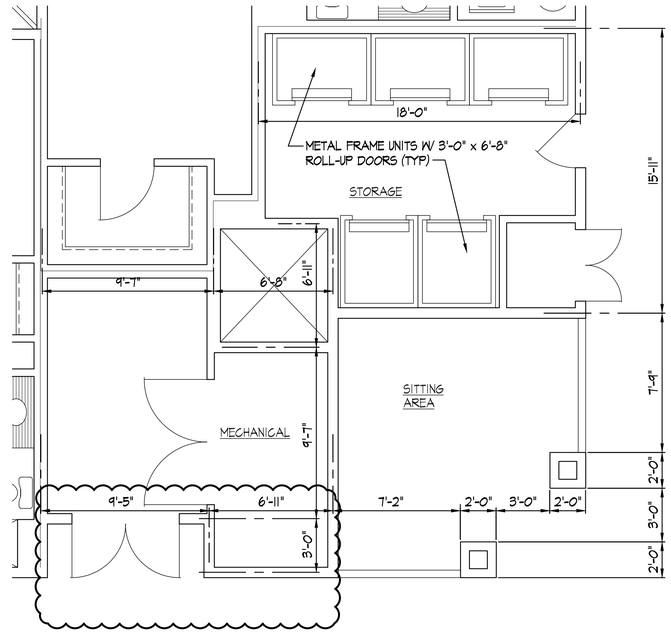


TYPICAL LARGE
SCALE FLOOR PLAN 1
SCALE 1/4" = 1'-0"
A1.3 A1.26



TYPICAL LARGE
SCALE FLOOR PLAN 2
SCALE 1/4" = 1'-0"
A1.3 A1.26



TYPICAL LARGE
SCALE FLOOR PLAN 3
SCALE 1/4" = 1'-0"
A1.3 A1.26

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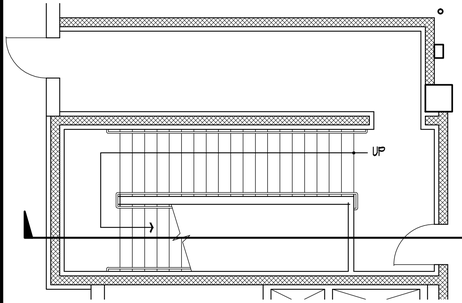
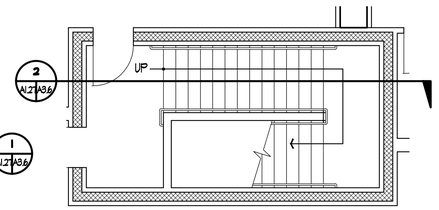
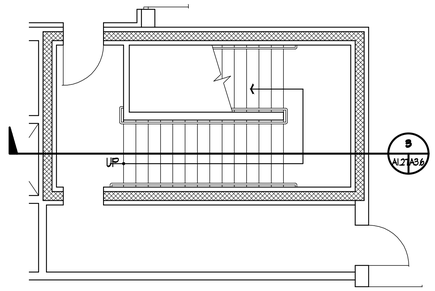


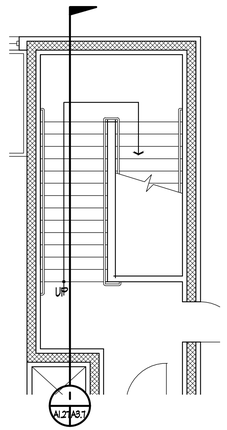
STAIR # 1 - FIRST FLOOR (1 / A1.1 | A1.2)
SCALE 3/16" = 1'-0"



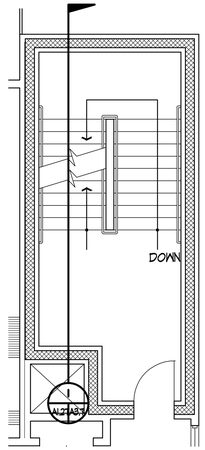
STAIR # 2 - FIRST FLOOR (5 / A1.2 | A1.2)
SCALE 3/16" = 1'-0"



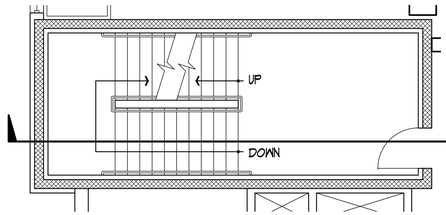
STAIR # 3 - FIRST FLOOR (9 / A1.1 | A1.2)
SCALE 3/16" = 1'-0"



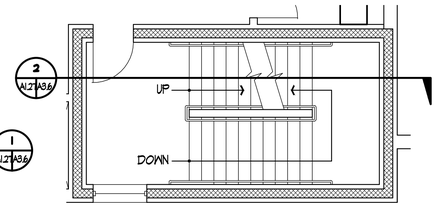
STAIR # 4 - FIRST FLOOR (13 / A1.1 | A1.2)
SCALE 3/16" = 1'-0"



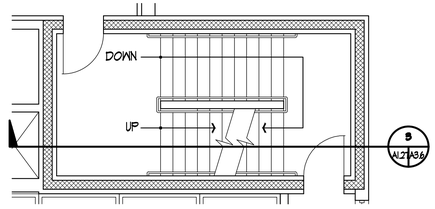
STAIR # 4 - SEVENTH FLOOR (16 / A1.7 | A1.2)
SCALE 3/16" = 1'-0"



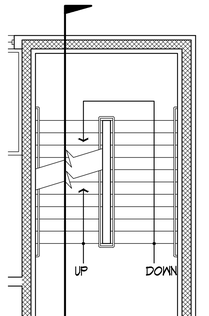
STAIR # 1 - SECOND FLOOR (2 / A1.2 | A1.2)
SCALE 3/16" = 1'-0"



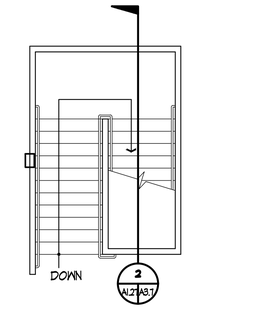
STAIR # 2 - SECOND FLOOR (6 / A1.2 | A1.2)
SCALE 3/16" = 1'-0"



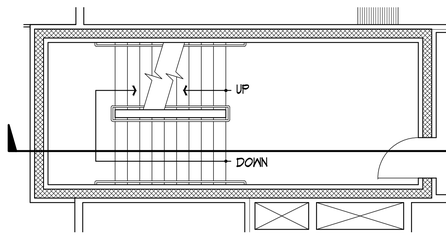
STAIR # 3 - SECOND FLOOR (10 / A1.2 | A1.2)
SCALE 3/16" = 1'-0"



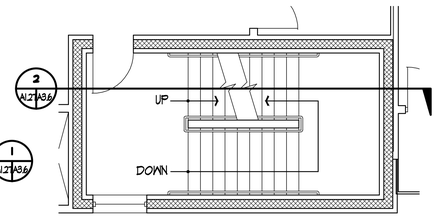
STAIR # 4 - SECOND FLOOR (14 / A1.2 | A1.2)
SCALE 3/16" = 1'-0"



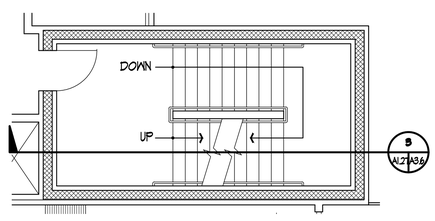
STAIR # 5 - FIRST FLOOR (17 / A1.1 | A1.2)
SCALE 3/16" = 1'-0"



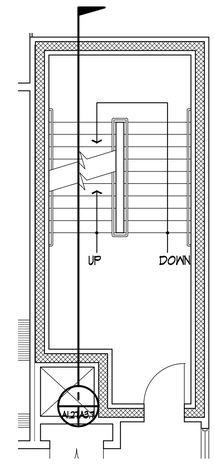
STAIR # 1 - THIRD THRU SIXTH FLOORS (3 / A1.3 | A1.2)
SCALE 3/16" = 1'-0"
A1.4
A1.5
A1.6



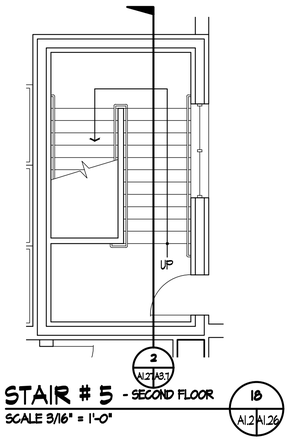
STAIR # 2 - THIRD THRU SIXTH FLOOR (7 / A1.4 | A1.2)
SCALE 3/16" = 1'-0"
A1.5
A1.6
A1.25



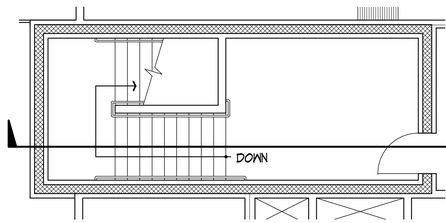
STAIR # 3 - THIRD THRU SIXTH FLOOR (11 / A1.3 | A1.2)
SCALE 3/16" = 1'-0"
A1.4
A1.5
A1.6



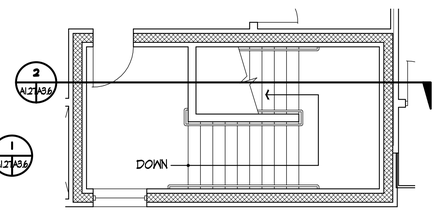
STAIR # 4 - THIRD THRU SIXTH FLOOR (15 / A1.3 | A1.2)
SCALE 3/16" = 1'-0"
A1.4
A1.5
A1.6



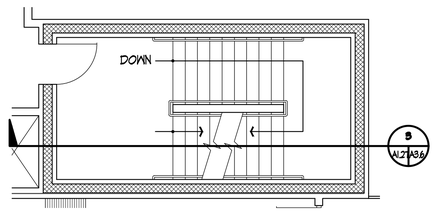
STAIR # 5 - SECOND FLOOR (18 / A1.2 | A1.26)
SCALE 3/16" = 1'-0"



STAIR # 1 - SEVENTH FLOOR (4 / A1.7 | A1.2)
SCALE 3/16" = 1'-0"



STAIR # 2 - SEVENTH FLOOR (8 / A1.7 | A1.2)
SCALE 3/16" = 1'-0"



STAIR # 3 - SEVENTH FLOOR (12 / A1.7 | A1.2)
SCALE 3/16" = 1'-0"

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LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
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DATE
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A1.27

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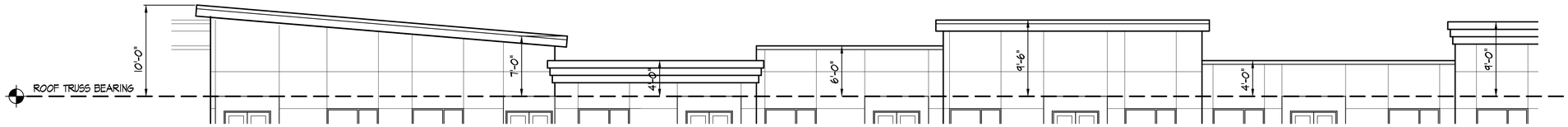
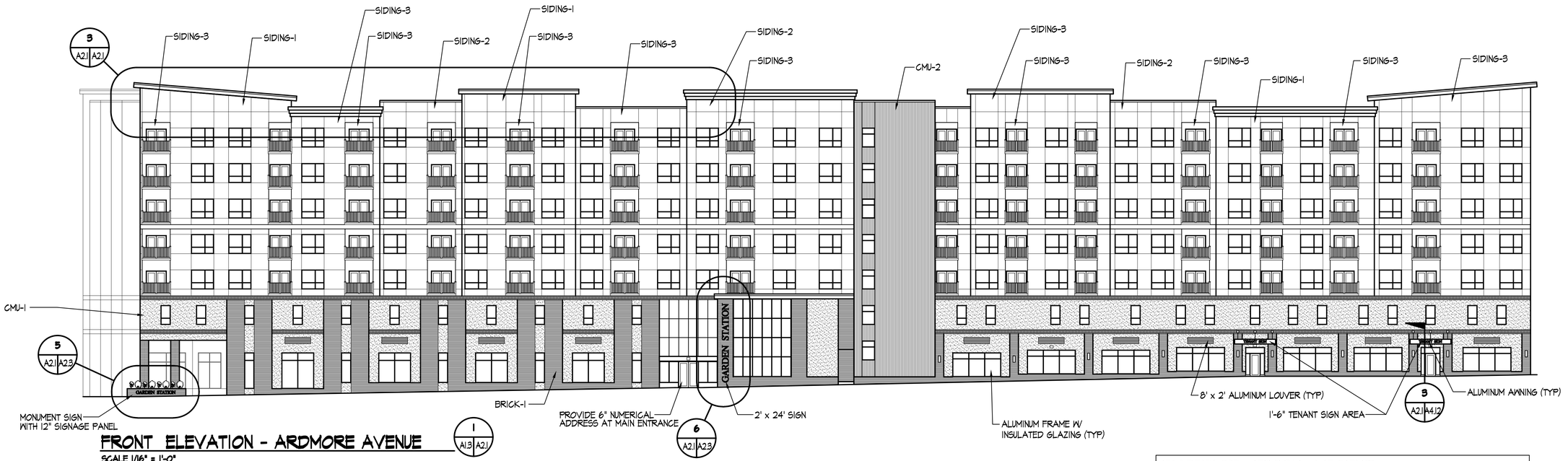


LARGE SCALE PARAPET ELEVATION

SCALE 1/16" = 1'-0"

5 A2.1 | A2.1



FRONT ELEVATION - ARDMORE AVENUE

SCALE 1/16" = 1'-0"

1 A1.3 | A2.1

RIGHT SIDE ELEVATION - TERRACE STREET

SCALE 1/16" = 1'-0"

2 A1.3 | A2.1

EXTERIOR FINISH LEGEND

	PRODUCT	COLOR BASIS OF DESIGN
CMU-1	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU COLOR: CASTLE WHITE	MFR: SHERWIN WILLIAMS COLOR ID: SW2829 COLOR: CLASSICAL WHITE
CMU-2	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU 5-SCORE COLOR: KANTA BROWN	MFR: SHERWIN WILLIAMS COLOR ID: SW2808 COLOR: ROOKWOOD DARK BROWN
BRICK-1	BRICK MFR: GENERAL SHALE COLLECTION: DENVER COLOR: OLD CHICAGO	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: RENWICK GOLDEN OAK
SIDING-1	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: LIGHT MIST	MFR: SHERWIN WILLIAMS COLOR ID: SW2844 COLOR: ROYCROFT MIST GRAY
SIDING-2	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: GRAY SLATE	MFR: SHERWIN WILLIAMS COLOR ID: SW2821 COLOR: DOWNING STONE
SIDING-3	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: IRON GRAY	MFR: SHERWIN WILLIAMS COLOR ID: SW2848 COLOR: ROYCROFT PEWTER

NOTE
SUBSTITUTIONS SHALL BE ALLOWED FOR ALL EXTERIOR FINISHES PROVIDED THAT THEY MAINTAIN SIMILAR ELEMENTS OF ARCHITECTURAL DESIGN AND MEET ALL LOCAL ZONING ORDINANCES. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

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STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A2.1

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FRONT ELEVATION - ARDMORE AVENUE

SCALE 1/16" = 1'-0"

1 A1.3 A2.1

RIGHT SIDE ELEVATION - TERRACE STREET

SCALE 1/16" = 1'-0"

2 A1.3 A2.1

EXTERIOR FINISH LEGEND

	PRODUCT	COLOR BASIS OF DESIGN
CMU-1	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU COLOR: CASTLE WHITE	MFR: SHERWIN WILLIAMS COLOR ID: SW2829 COLOR: CLASSICAL WHITE
CMU-2	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU 5-SCORE COLOR: KANTA BROWN	MFR: SHERWIN WILLIAMS COLOR ID: SW2808 COLOR: ROOKWOOD DARK BROWN
BRICK-1	BRICK MFR: GENERAL SHALE COLLECTION: DENVER COLOR: OLD CHICAGO	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: RENWICK GOLDEN OAK
SIDING-1	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: LIGHT MIST	MFR: SHERWIN WILLIAMS COLOR ID: SW2844 COLOR: ROYCROFT MIST GRAY
SIDING-2	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: GRAY SLATE	MFR: SHERWIN WILLIAMS COLOR ID: SW2821 COLOR: DOWNING STONE
SIDING-3	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: IRON GRAY	MFR: SHERWIN WILLIAMS COLOR ID: SW2848 COLOR: ROYCROFT PEWTER

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ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

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A2.1A

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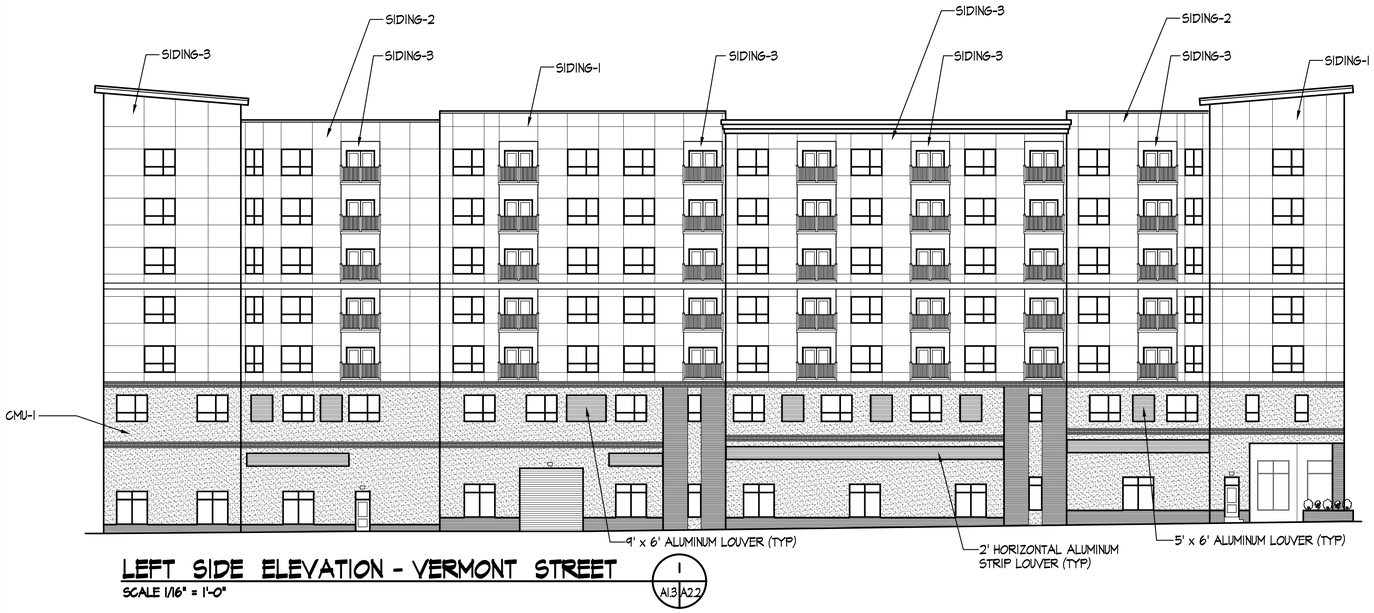

LEFT SIDE ELEVATION - VERMONT STREET

SCALE 1/16" = 1'-0"

1 A1.3 | A2.2

EXTERIOR FINISH LEGEND

	PRODUCT	COLOR BASIS OF DESIGN
CMU-1	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU COLOR: CASTLE WHITE	MFR: SHERWIN WILLIAMS COLOR ID: SW2829 COLOR: CLASSICAL WHITE
CMU-2	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU 5-SCORE COLOR: KANTA BROWN	MFR: SHERWIN WILLIAMS COLOR ID: SW2808 COLOR: ROOKWOOD DARK BROWN
BRICK-1	BRICK MFR: GENERAL SHALE COLLECTION: DENVER COLOR: OLD CHICAGO	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: RENWICK GOLDEN OAK
SIDING-1	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: LIGHT MIST	MFR: SHERWIN WILLIAMS COLOR ID: SW2844 COLOR: ROYCROFT MIST GRAY
SIDING-2	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: GRAY SLATE	MFR: SHERWIN WILLIAMS COLOR ID: SW2821 COLOR: DOWNING STONE
SIDING-3	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: IRON GRAY	MFR: SHERWIN WILLIAMS COLOR ID: SW2848 COLOR: ROYCROFT PEWTER

NOTE
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REAR ELEVATION - BEVERLY AVENUE

SCALE 1/16" = 1'-0"

2 A1.3 | A2.2

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RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

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RLJ JR
TECHNICIANS
JMB
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DATE
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A2.2

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LEFT SIDE ELEVATION - VERMONT STREET

SCALE 1/16" = 1'-0"

1 A1.3 A2.2

EXTERIOR FINISH LEGEND

	PRODUCT	COLOR BASIS OF DESIGN
CMU-1	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU COLOR: CASTLE WHITE	MFR: SHERWIN WILLIAMS COLOR ID: SW2829 COLOR: CLASSICAL WHITE
CMU-2	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU 5-SCORE COLOR: KANTA BROWN	MFR: SHERWIN WILLIAMS COLOR ID: SW2808 COLOR: ROOKWOOD DARK BROWN
BRICK-1	BRICK MFR: GENERAL SHALE COLLECTION: DENVER COLOR: OLD CHICAGO	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: RENWICK GOLDEN OAK
SIDING-1	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: LIGHT MIST	MFR: SHERWIN WILLIAMS COLOR ID: SW2844 COLOR: ROYCROFT MIST GRAY
SIDING-2	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: GRAY SLATE	MFR: SHERWIN WILLIAMS COLOR ID: SW2821 COLOR: DOWNING STONE
SIDING-3	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: IRON GRAY	MFR: SHERWIN WILLIAMS COLOR ID: SW2848 COLOR: ROYCROFT PEWTER

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REAR ELEVATION - BEVERLY AVENUE

SCALE 1/16" = 1'-0"

2 A1.3 A2.2

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COURTYARD EXTERIOR ELEVATION - ARDMORE STREET

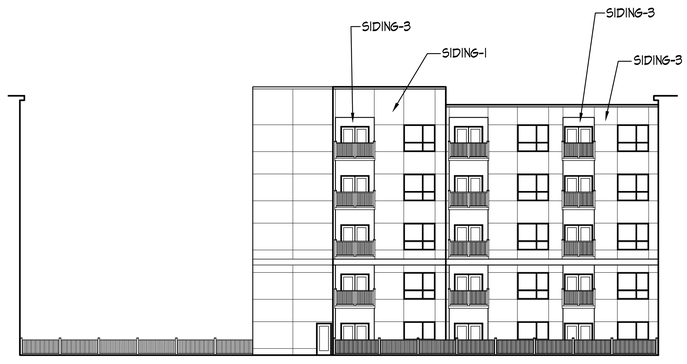
1 / A1.3 | A2.3

SCALE 1/16" = 1'-0"

COURTYARD EXTERIOR ELEVATION - BEVERLY AVENUE

2 / A1.3 | A2.3

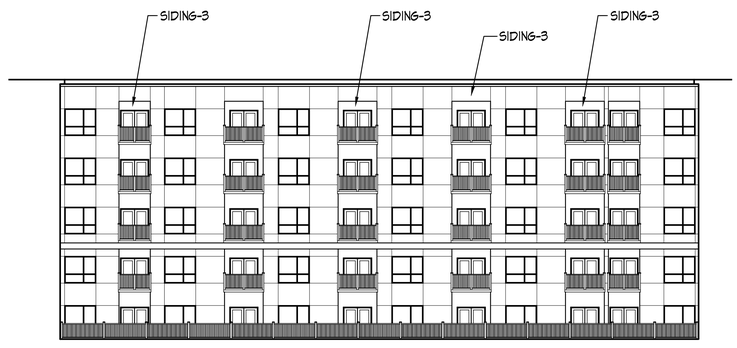
SCALE 1/16" = 1'-0"



COURTYARD EXTERIOR ELEVATION - TERRACE STREET

3 / A1.3 | A2.3

SCALE 1/16" = 1'-0"



COURTYARD EXTERIOR ELEVATION - VERMONT STREET

4 / A1.3 | A2.3

SCALE 1/16" = 1'-0"

EXTERIOR FINISH LEGEND

	PRODUCT	COLOR BASIS OF DESIGN
CMU-1	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU COLOR: CASTLE WHITE	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: CLASSICAL WHITE
CMU-2	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU 5-SCORE COLOR: KANTA BROWN	MFR: SHERWIN WILLIAMS COLOR ID: SW2808 COLOR: ROOKWOOD DARK BROWN
BRICK-1	BRICK MFR: GENERAL SHALE COLLECTION: DENVER COLOR: OLD CHICAGO	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: RENWICK GOLDEN OAK
SIDING-1	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: LIGHT MIST	MFR: SHERWIN WILLIAMS COLOR ID: SW2844 COLOR: ROYCROFT MIST GRAY
SIDING-2	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: GRAY SLATE	MFR: SHERWIN WILLIAMS COLOR ID: SW2821 COLOR: DOMINO STONE
SIDING-3	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: IRON GRAY	MFR: SHERWIN WILLIAMS COLOR ID: SW2848 COLOR: ROYCROFT PEWTER

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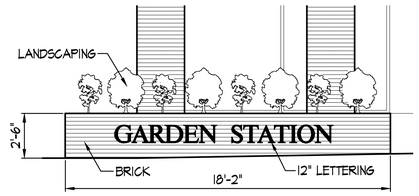
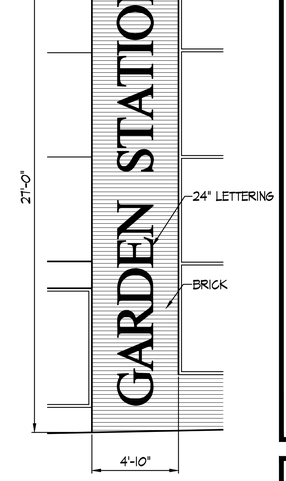


MONUMENT SIGN

5 / A2.1 | A2.3

SCALE 1/4" = 1'-0"



BUILDING SIGN

6 / A2.1 | A2.3

SCALE 1/4" = 1'-0"

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LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A2.3

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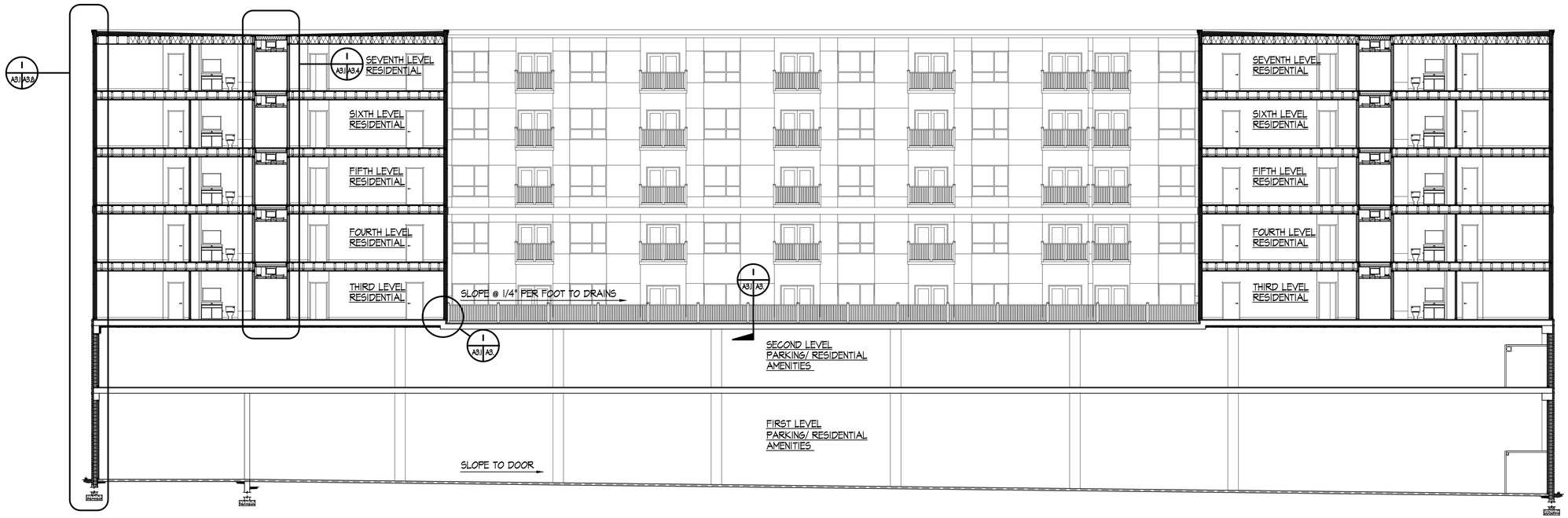
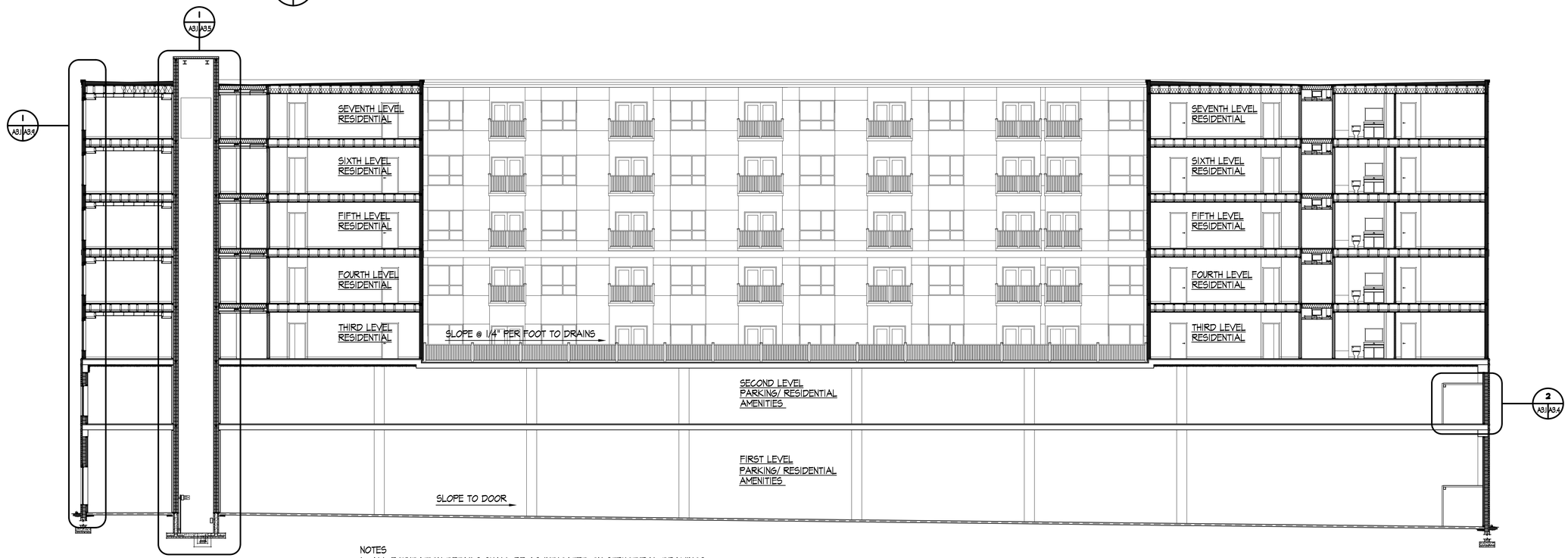


BUILDING SECTION

SCALE 3/32" = 1'-0"



BUILDING SECTION

SCALE 3/32" = 1'-0"

NOTES
1. ALL FOUNDATION DETAILS SHALL BE AS INDICATED ON STRUCTURAL DRAWINGS
2. PROVIDE 4" EXTENSIVE SOIL MIX ON GRANULAR DRAINAGE AT THIRD FLOOR PERVIOUS AREAS
3. PROVIDE WATERPROOF COATING SYSTEM ON THIRD FLOOR CONCRETE DECK

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STATE OF ILLINOIS
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TECHNICIANS
JMB
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18 JUN 2021

A3.1

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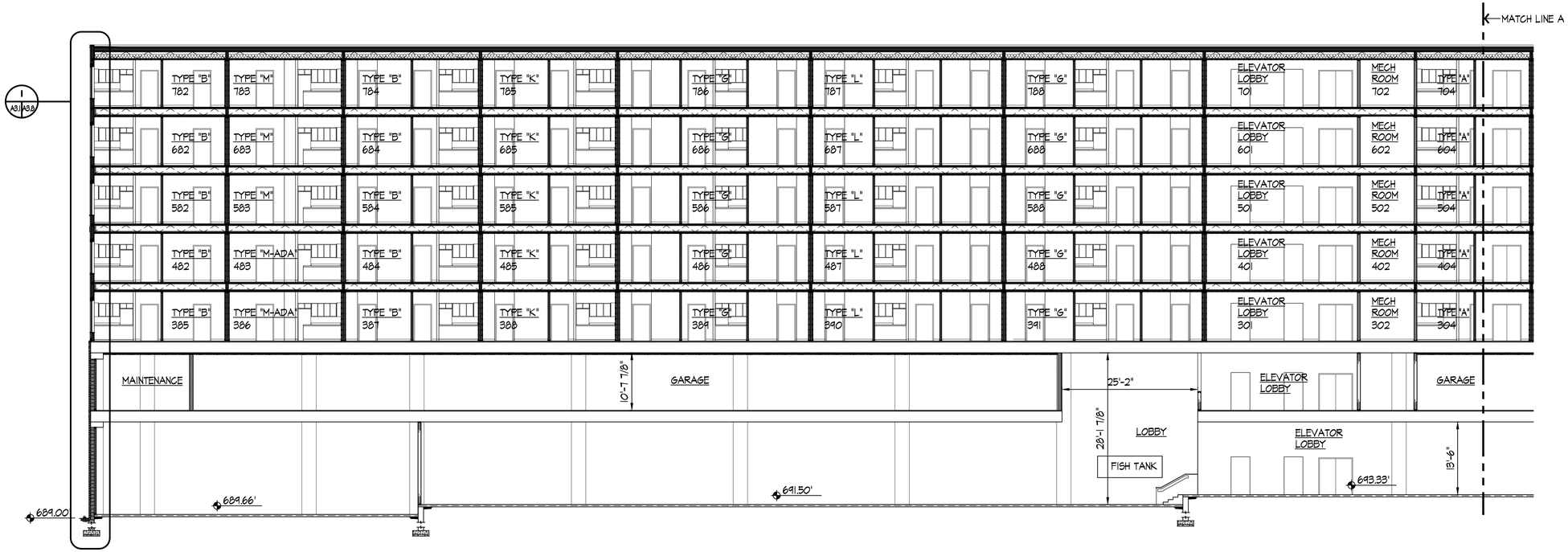

BUILDING SECTION

SCALE 3/32" = 1'-0"

1 / A1.1 | A3.2

NOTE
ALL FOUNDATION DETAILS SHALL BE AS INDICATED ON STRUCTURAL DRAWINGS

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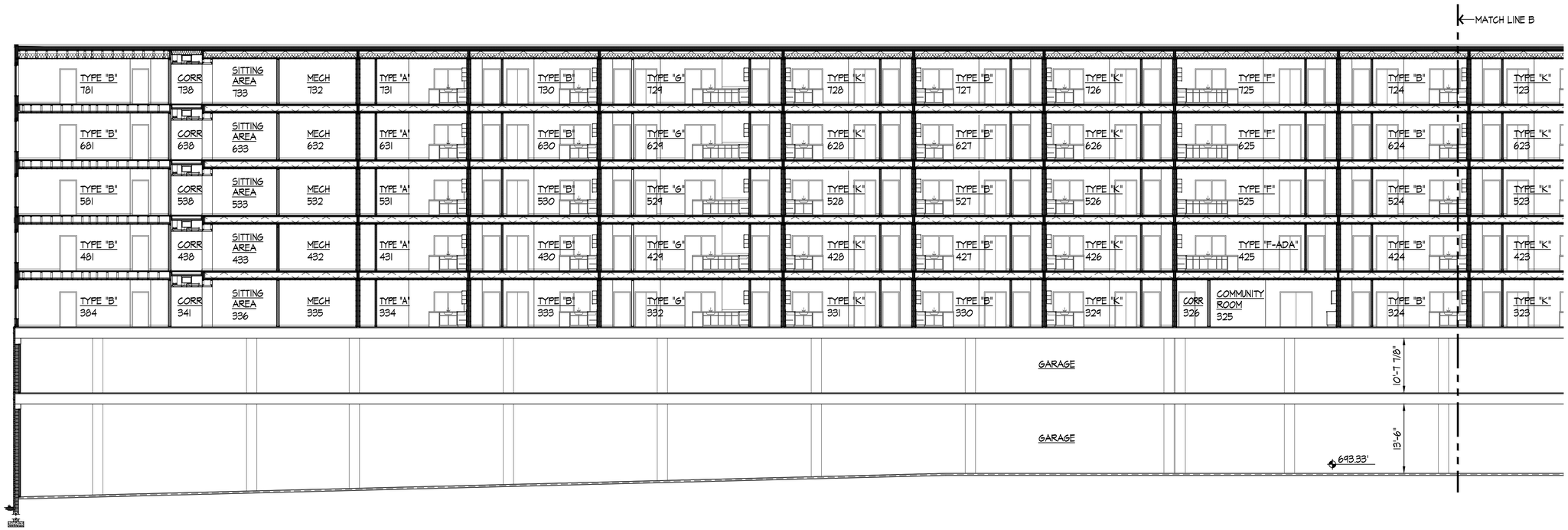
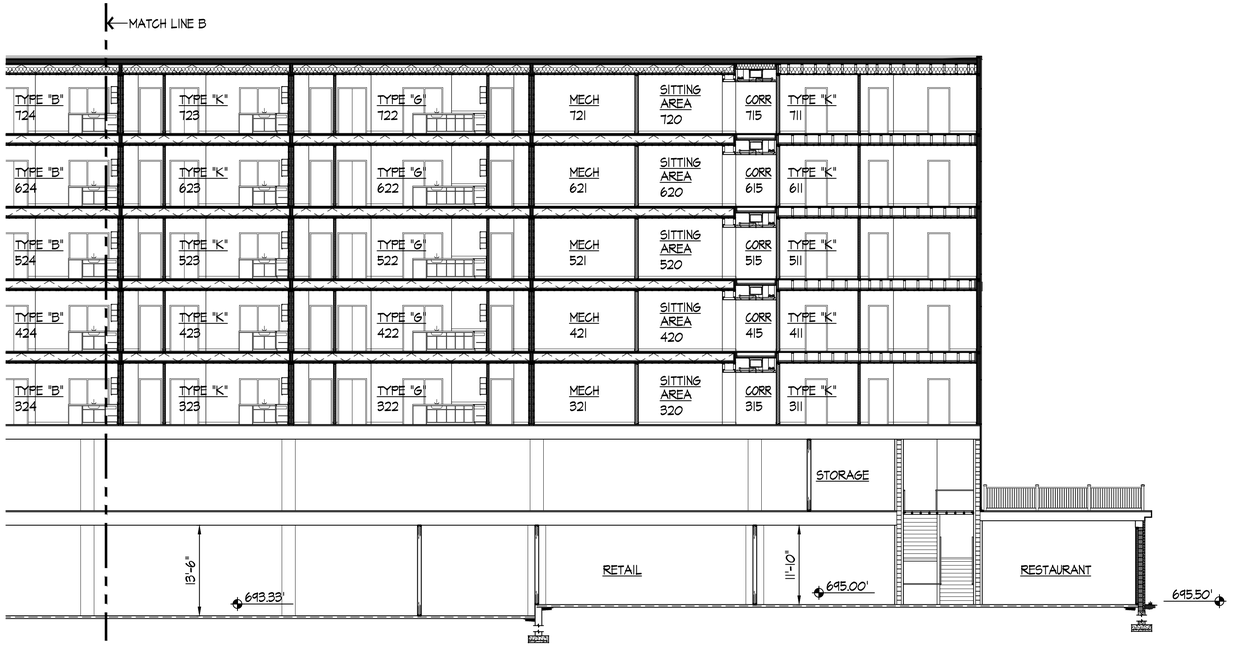


BUILDING SECTION

SCALE 1/16" = 1'-0"

1 / A11 | A3.3

NOTE
ALL FOUNDATION DETAILS SHALL BE AS INDICATED ON STRUCTURAL DRAWINGS



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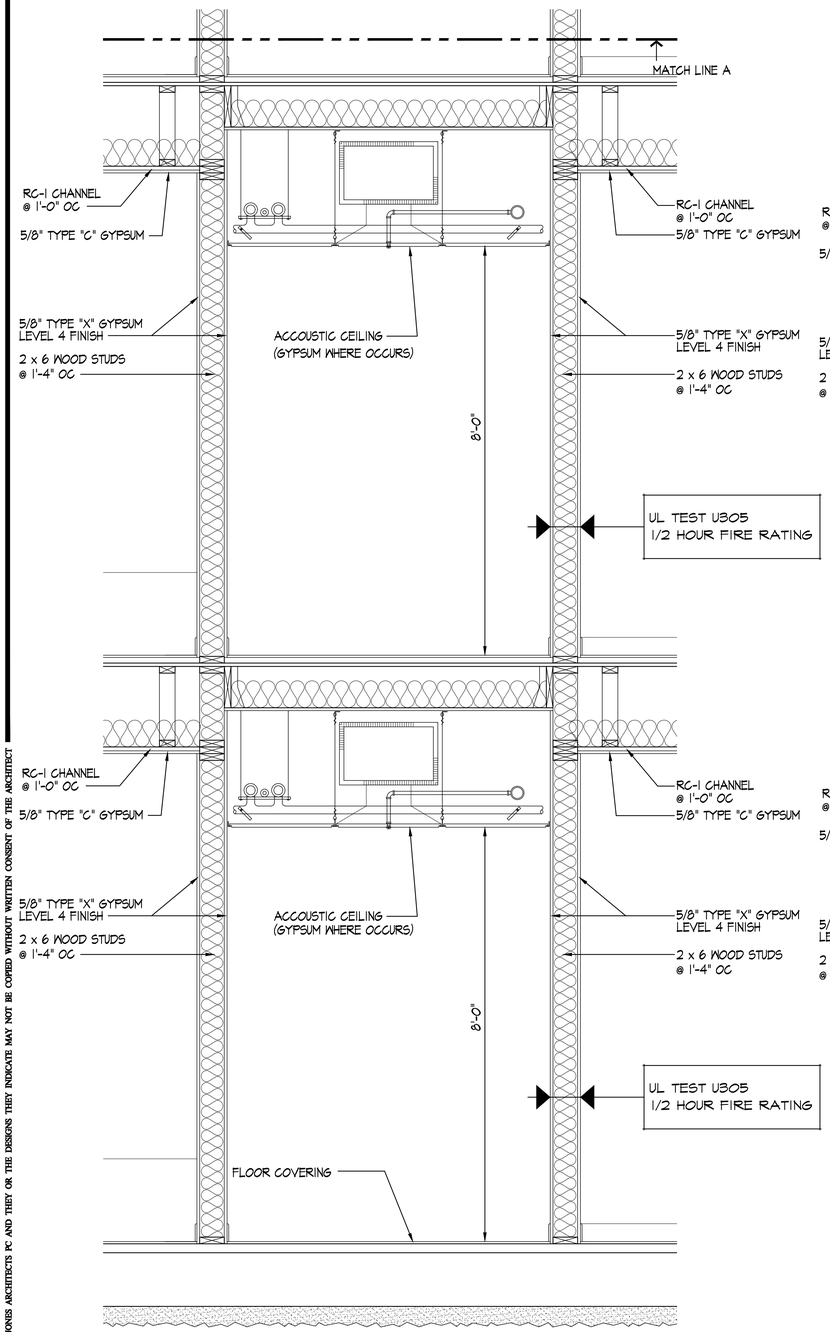
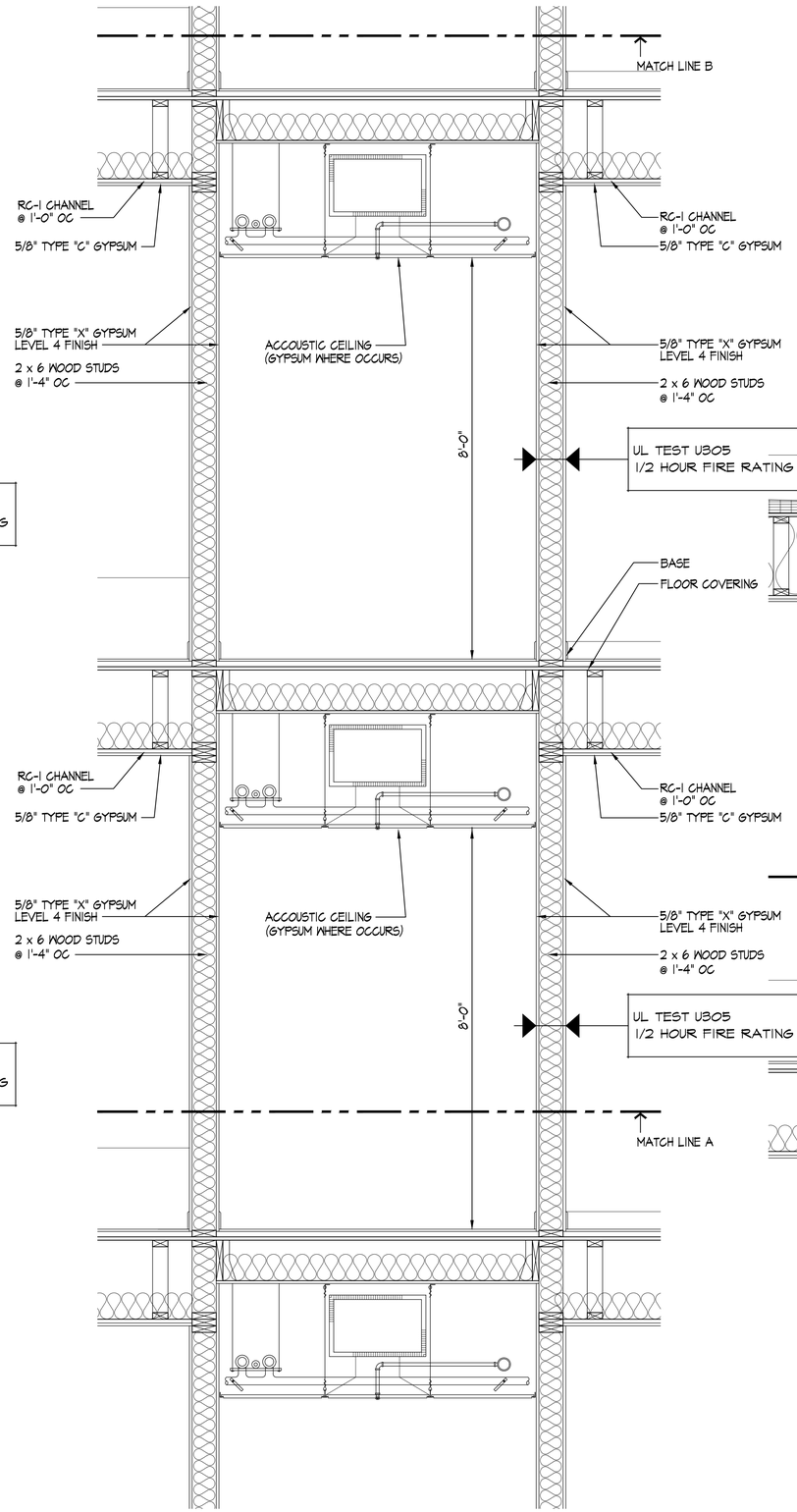
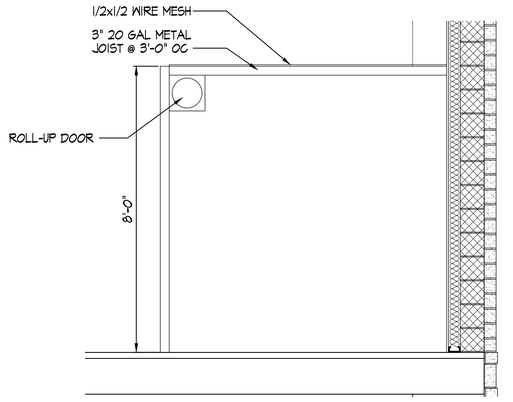
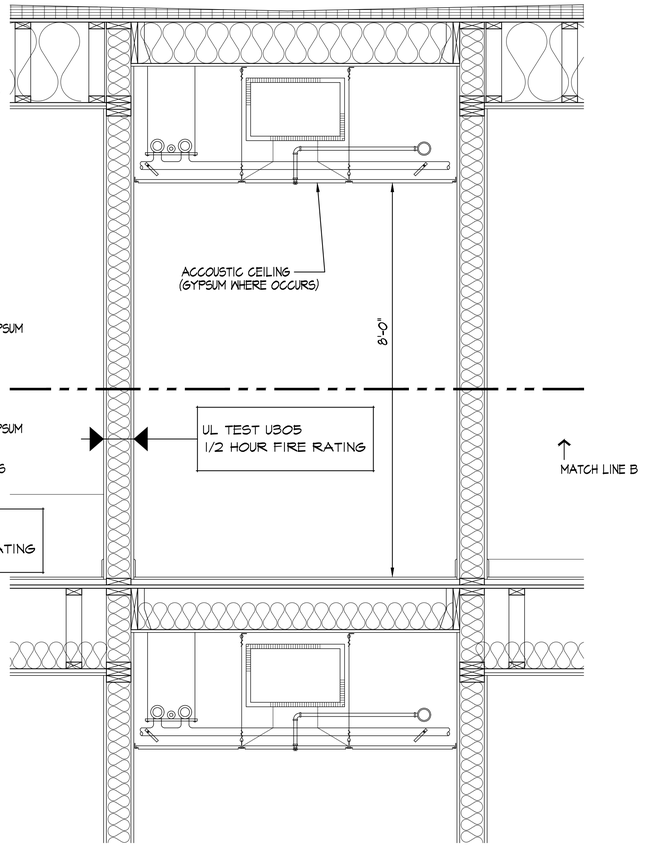


SECTION 1
SCALE 3/4" = 1'-0" A3.1|A3.4





TYPICAL STORAGE UNIT 2
SCALE 1/2" = 1'-0" A3.1|A3.4



NOTES
1. THE BOTTOM OF FOOTING ELEVATION SHALL BE A MINIMUM OF 4'-0" BELOW THE INDICATED FINISH GRADE AND SHALL COURSE OUT IN 8" INCREMENTS
2. ALL FIRE RATED ASSEMBLY INTERSECTIONS SHALL BE SEALED IN ACCORDANCE WITH GYPSUM MANUFACTURERS INSTRUCTIONS
3. ALL INSULATING MATERIAL SHALL MEET OR EXCEED THE FOLLOWING RATINGS: FLAME SPREAD INDEX OF NOT MORE THAN 25, SMOKE DEVELOPMENT 0-450
4. PROVIDE 2 x 6 STUDS AT ALL PLUMBING WALLS AND WALLS CONTAINING ELECTRICAL PANELS
5. PROVIDE STC-50 INSULATION IN WALLS BETWEEN RESIDENCE ROOMS

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A3.4

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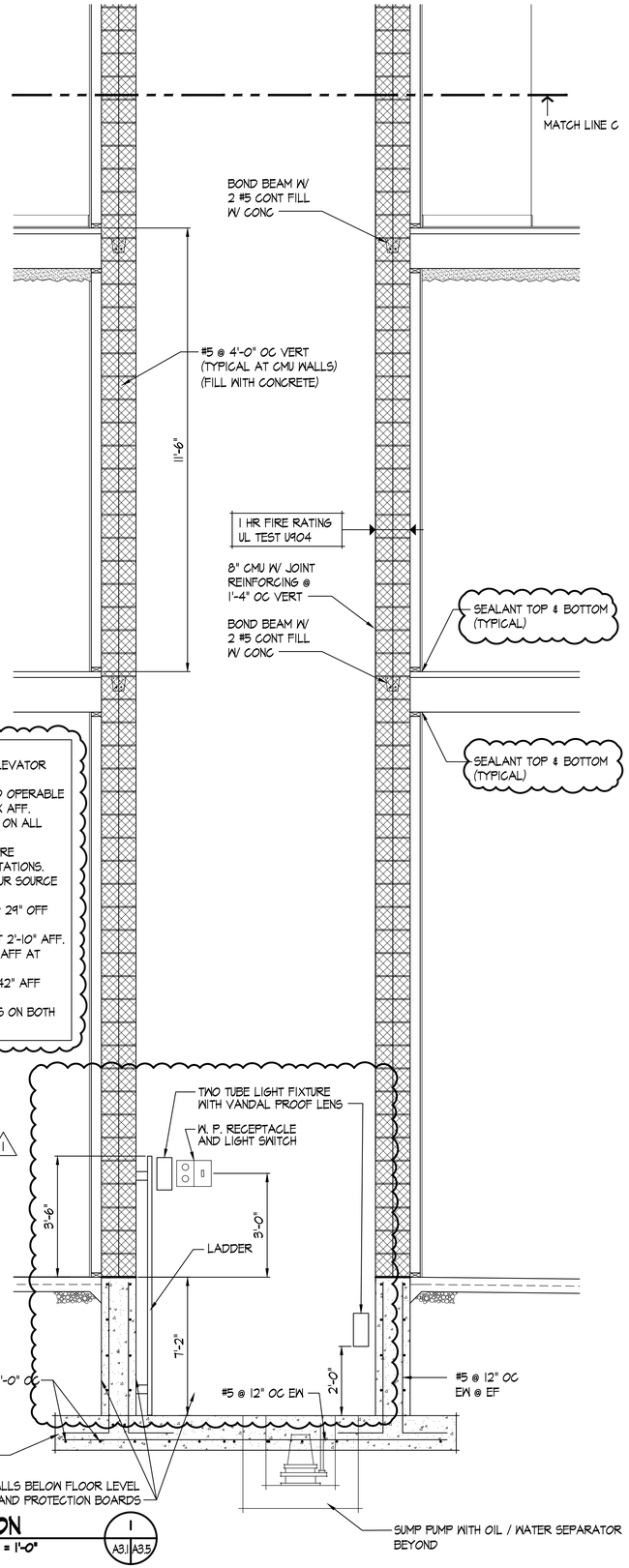
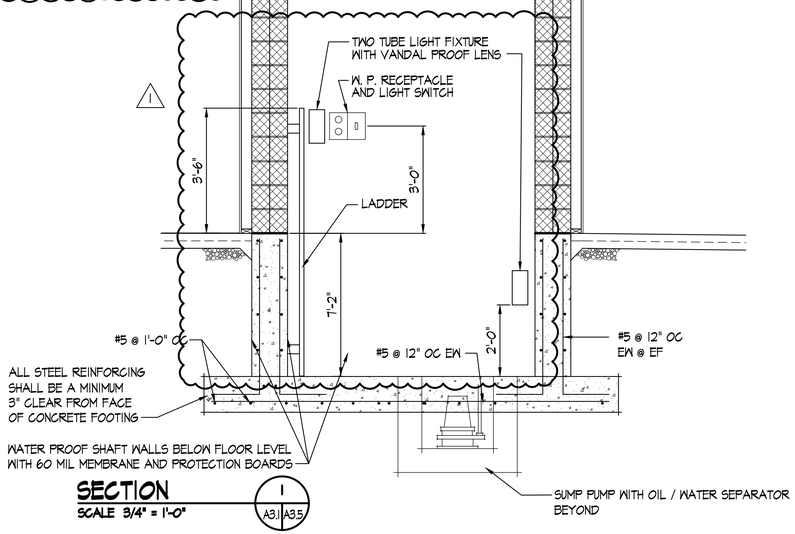
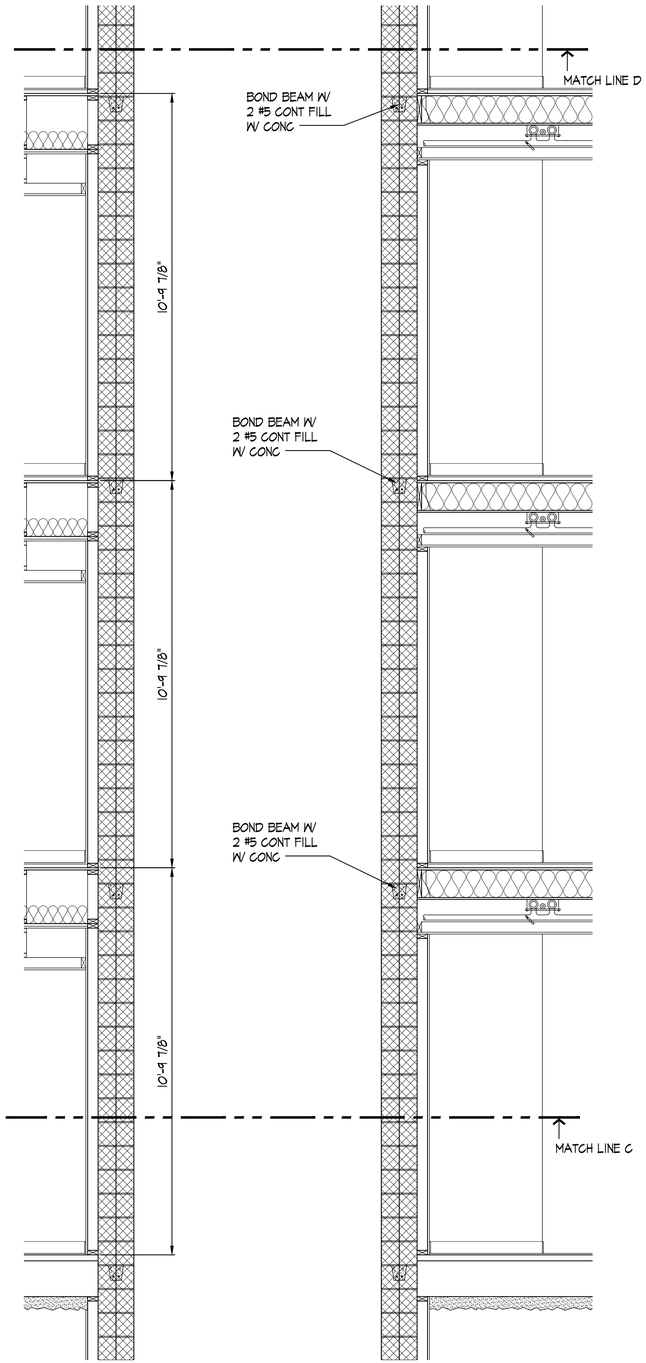


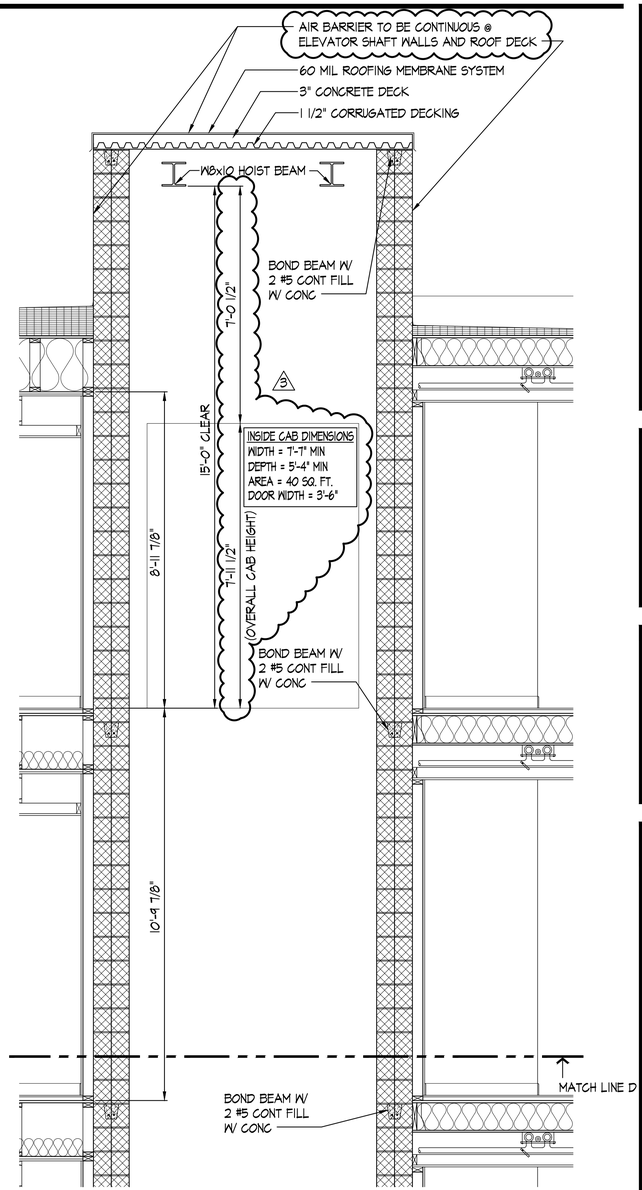
GENERAL ELEVATOR NOTES

1. COORDINATE ALL ELEMENTS WITH ELEVATOR MANUFACTURE.
2. ALL ELEVATOR CAB CONTROLS AND OPERABLE PARTS SHALL BE LOCATED 48" MAX AFF.
3. PROVIDE 70 DEGREE METAL TAPER ON ALL LEDGES BIGGER THAN 2".
4. PROVIDE 4 SYMBOL PICTOGRAPH FIRE WARNING SIGNS ABOVE ALL HALL STATIONS.
5. PROVIDE A TELEPHONE TO A 24-HOUR SOURCE WITH VOICE MESSAGE.
6. PROVIDE ELECTRIC EYES AT 5" AND 29" OFF THE SILL.
7. PROVIDE HANDRAILS INSIDE CAB AT 2'-10" AFF.
8. PROVIDE HALL SIGNALS AT 72" MIN AFF AT EACH ELEVATOR.
9. CALL BUTTONS SHALL BE MOUNTED 42" AFF AND SHALL BE RAISED OR FLUSH.
10. PROVIDE FLOOR DESIGNATION SIGNS ON BOTH SIDES OF HOISTWAY AT 60" AFF.



SECTION 1
SCALE 3/4" = 1'-0" A3.1|A3.5





NOTES

1. THE BOTTOM OF FOOTING ELEVATION SHALL BE A MINIMUM OF 4'-0" BELOW THE INDICATED FINISH GRADE AND SHALL COURSE OUT IN 8" INCREMENTS
2. ALL FIRE RATED ASSEMBLY INTERSECTIONS SHALL BE SEALED IN ACCORDANCE WITH GYPSUM MANUFACTURERS INSTRUCTIONS
3. ALL INSULATING MATERIAL SHALL MEET OR EXCEED THE FOLLOWING RATINGS: FLAME SPREAD INDEX OF NOT MORE THAN 25, SMOKE DEVELOPMENT 0-450
4. PROVIDE 2 x 6 STUDS AT ALL PLUMBING WALLS AND WALLS CONTAINING ELECTRICAL PANELS
5. PROVIDE STC-50 INSULATION IN WALLS BETWEEN RESIDENCE ROOMS
6. GROUT AND REINFORCING OF CMU AS INDICATED BY STRUCTURAL DRAWINGS

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GARDEN STATION APARTMENTS
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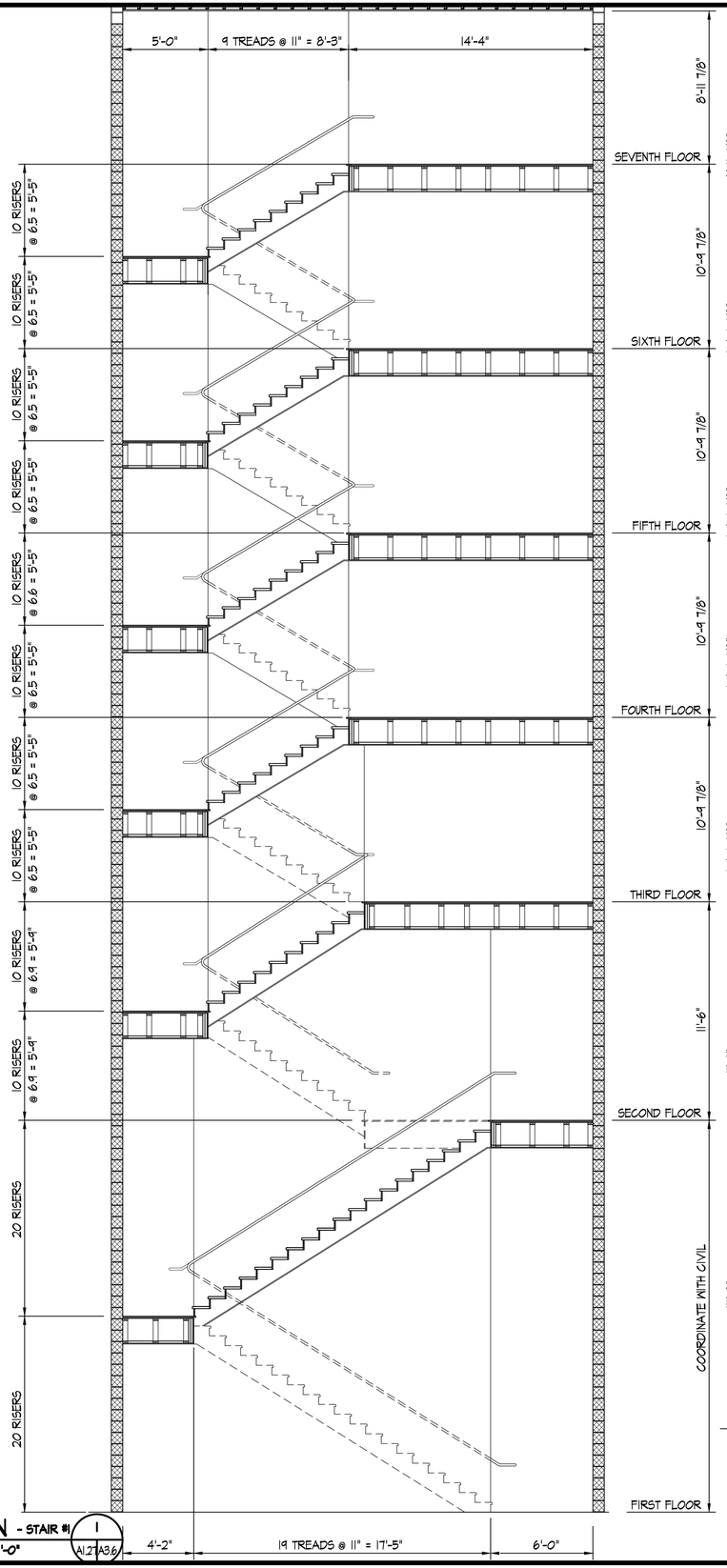
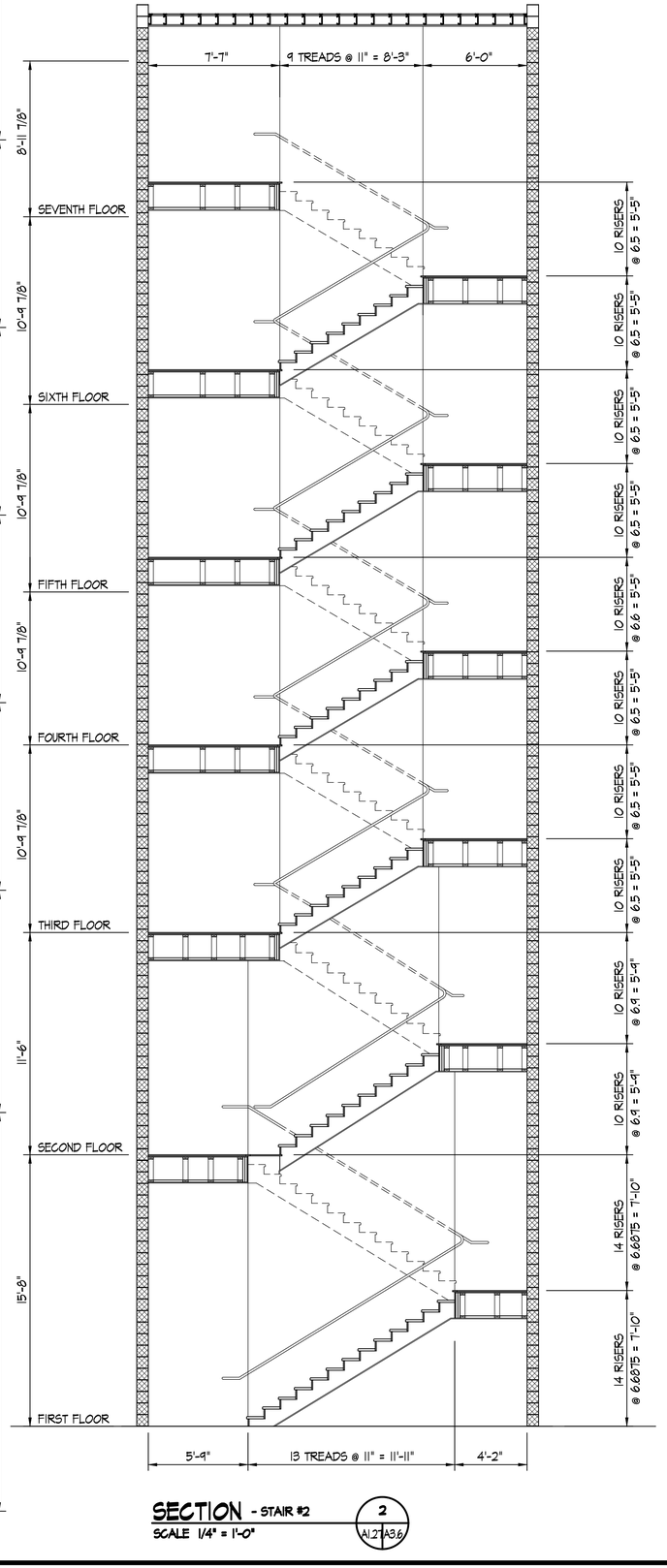
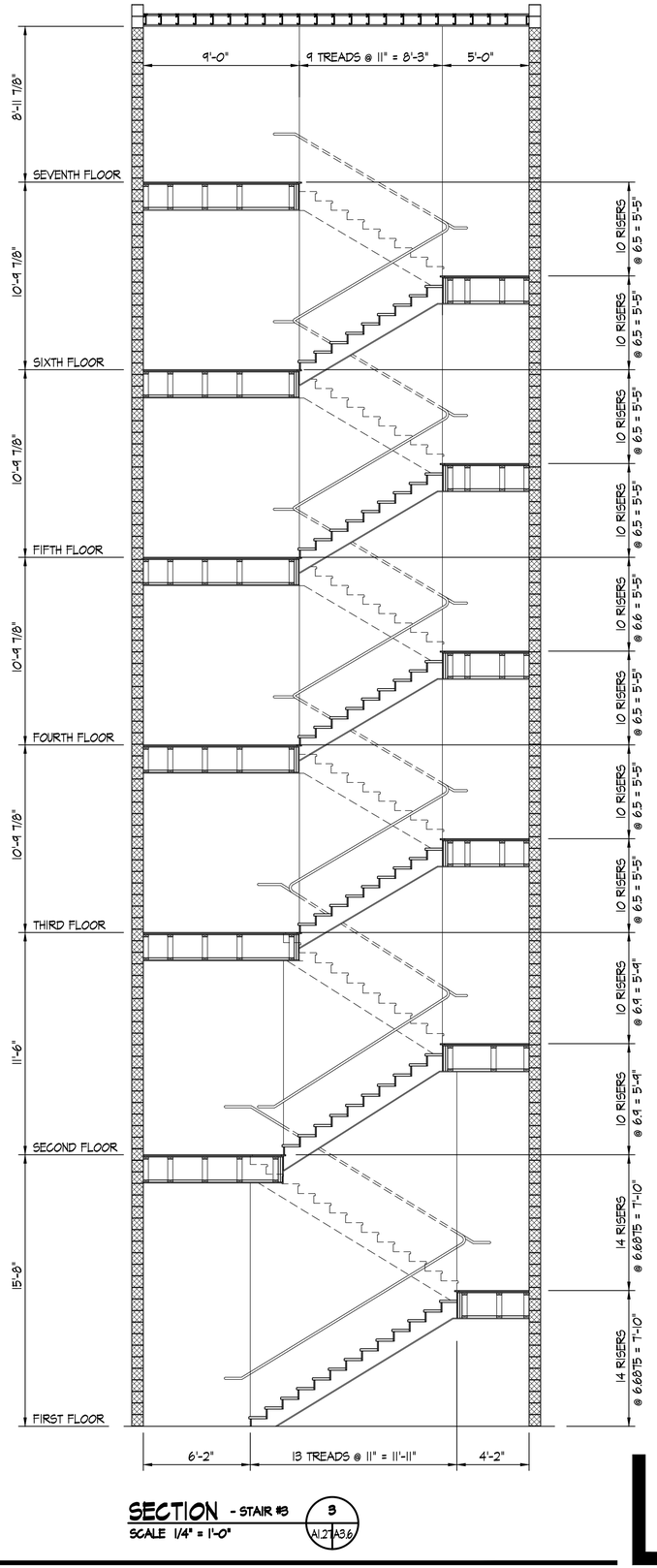


SECTION - STAIR #1 (1 / A1.2 A3.6)
SCALE 1/4" = 1'-0"



SECTION - STAIR #2 (2 / A1.2 A3.6)
SCALE 1/4" = 1'-0"



SECTION - STAIR #3 (3 / A1.2 A3.6)
SCALE 1/4" = 1'-0"

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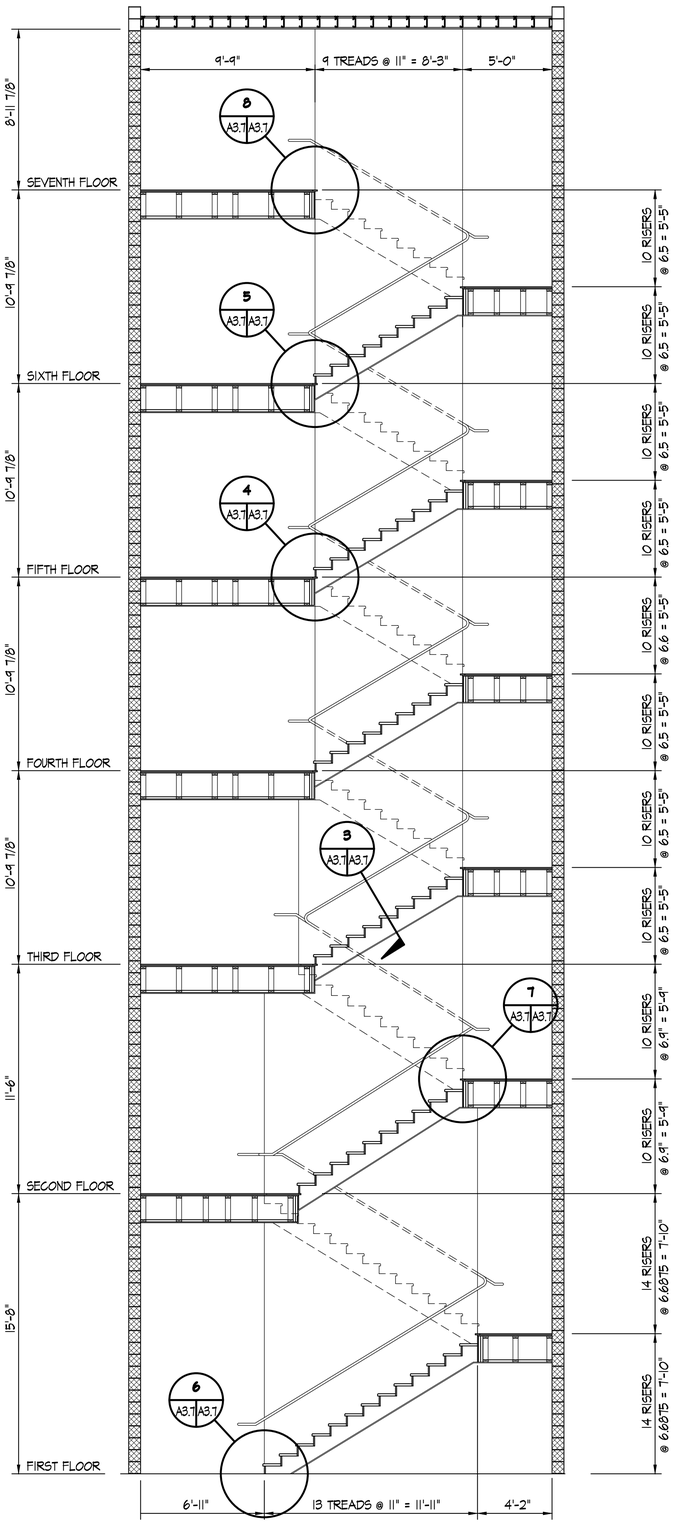

SECTION - STAIR #4 (1 / A1.2 | A3.1)
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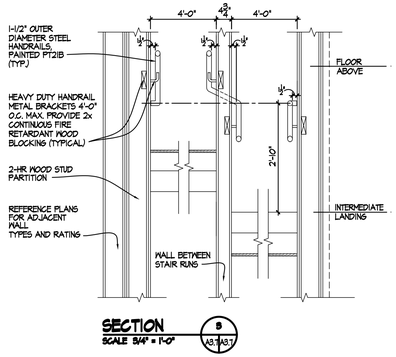
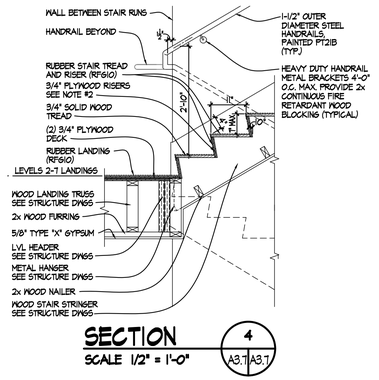
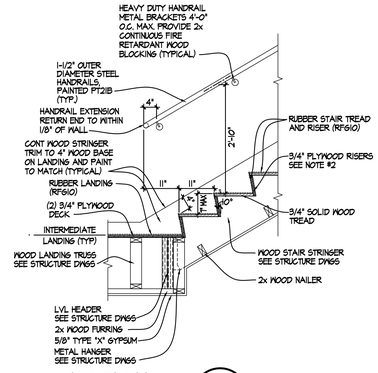


SECTION (5 / A3.1 | A3.1)
SCALE 5/4" = 1'-0"

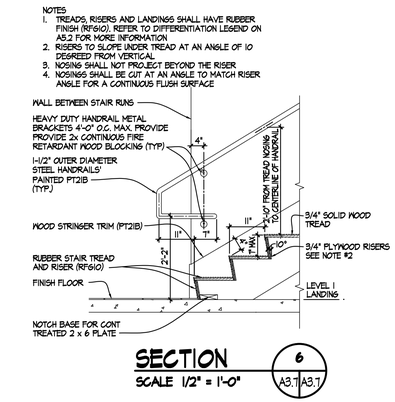


SECTION (4 / A3.1 | A3.1)
SCALE 1/2" = 1'-0"



SECTION (5 / A3.1 | A3.1)
SCALE 1/2" = 1'-0"

NOTES
1. TREADS, RISERS AND LANDINGS SHALL HAVE RUBBER FINISH (RF610). REFER TO DIFFERENTIATION LEGEND ON A5.2 FOR MORE INFORMATION
2. RISERS TO SLOPE UNDER TREAD AT AN ANGLE OF 10 DEGREED FROM VERTICAL
3. NOSING SHALL NOT PROJECT BEYOND THE RISER
4. NOSINGS SHALL BE CUT AT AN ANGLE TO MATCH RISER ANGLE FOR A CONTINUOUS FLUSH SURFACE



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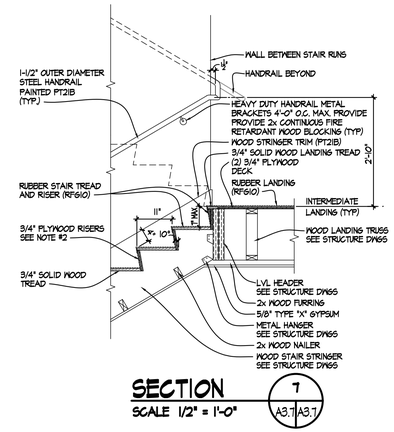
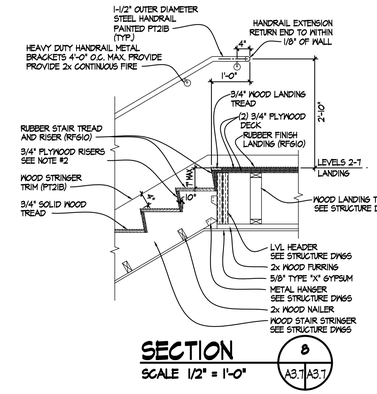
SCALE 1/2" = 1'-0"



SECTION (7 / A3.1 | A3.1)
SCALE 1/2" = 1'-0"



SECTION (8 / A3.1 | A3.1)
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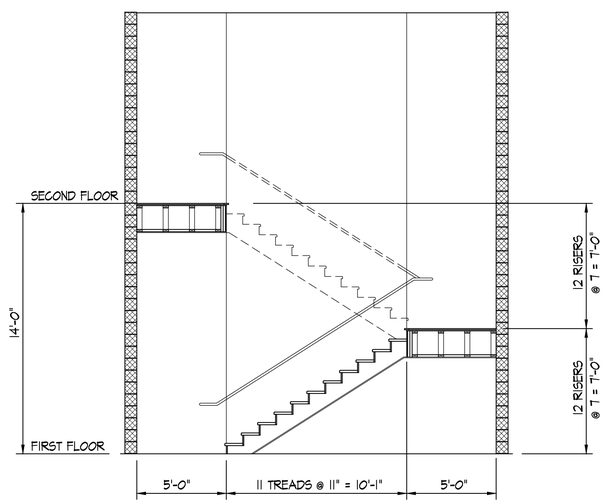

SECTION - STAIR #5 (2 / A1.2 | A3.1)
SCALE 1/4" = 1'-0"

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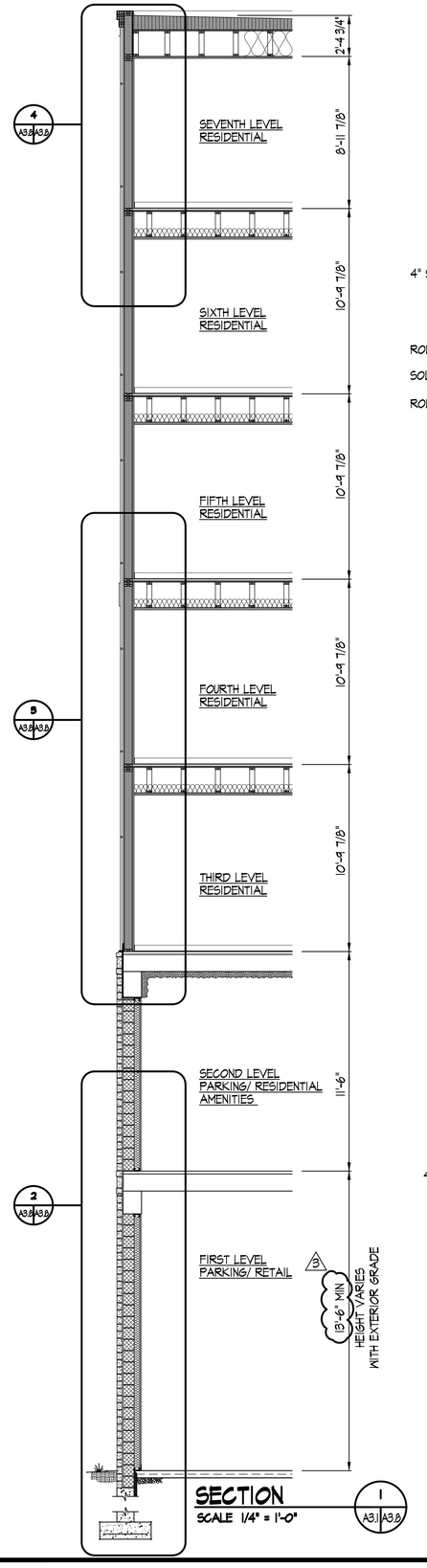
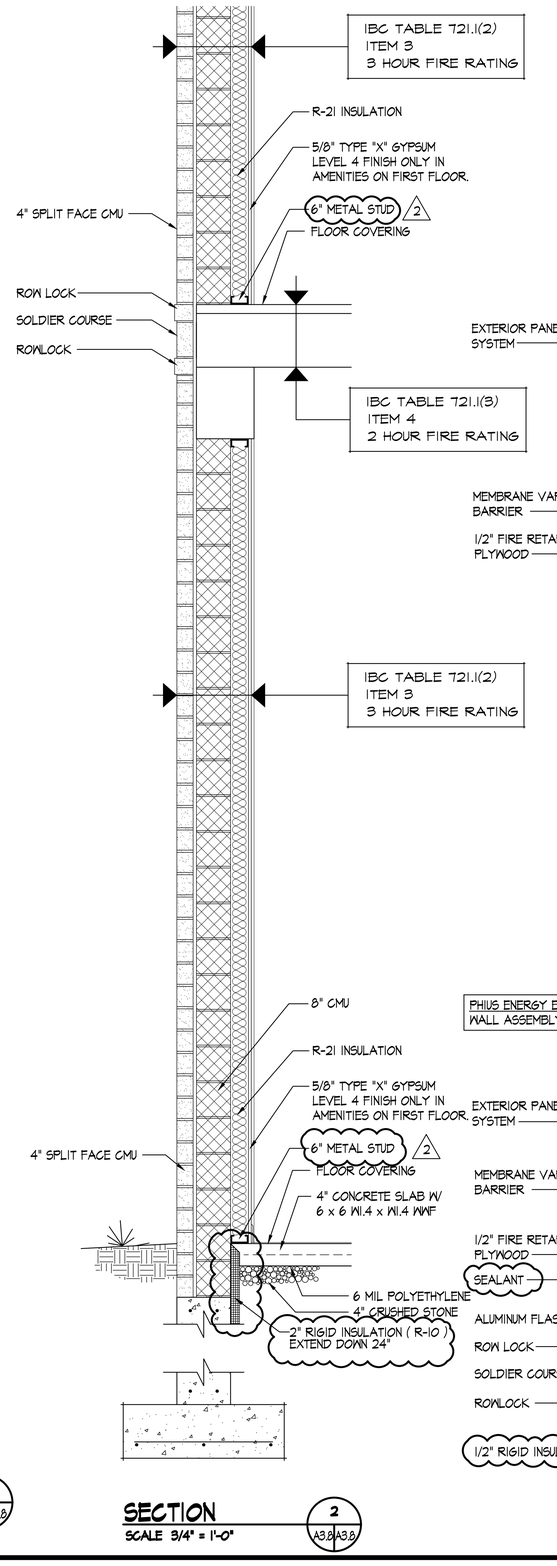
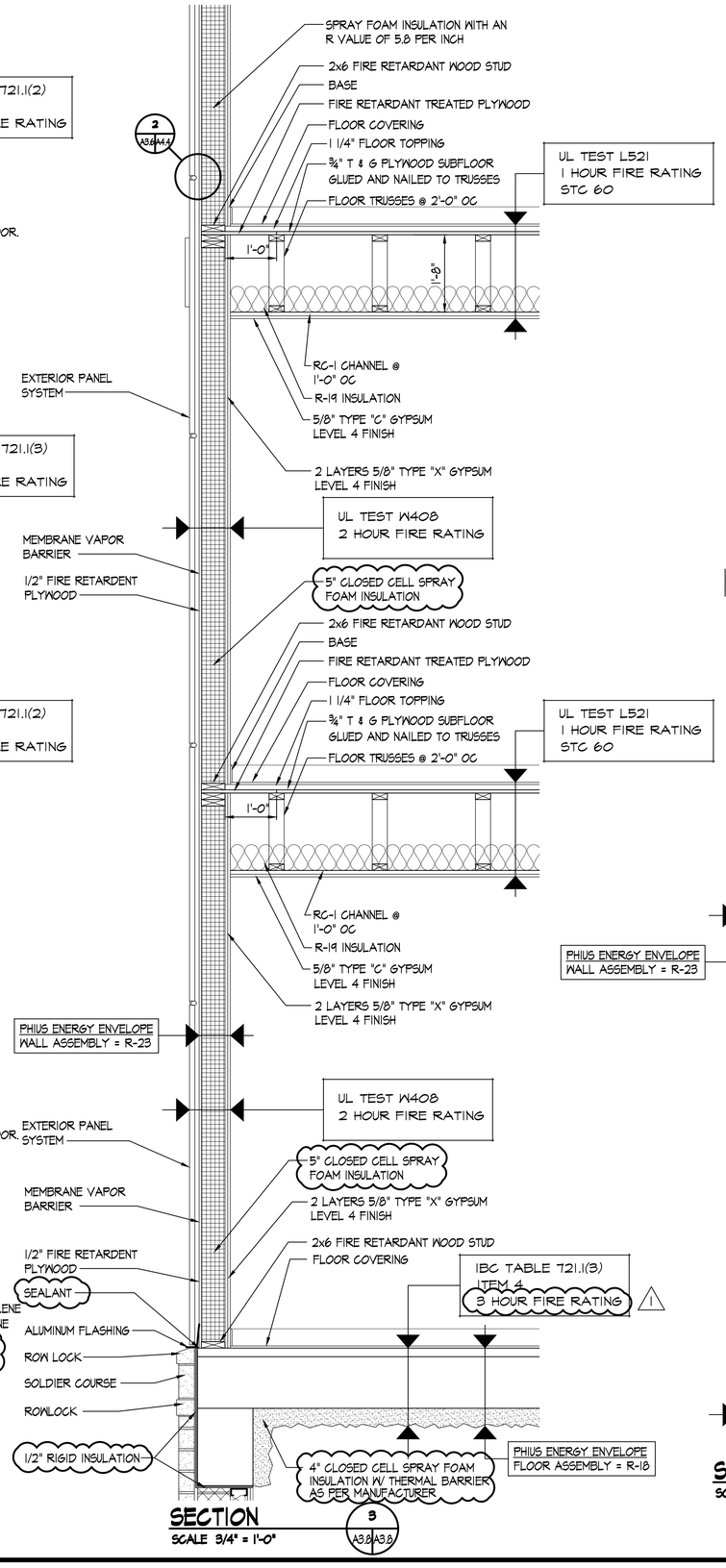


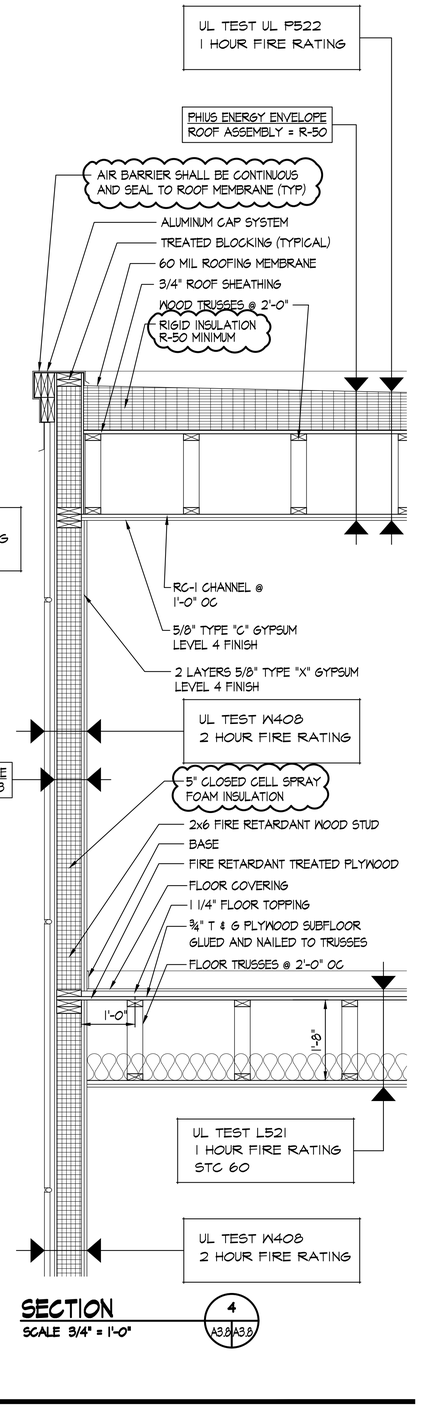
SECTION
SCALE 1/4" = 1'-0"
1 A3.1/A3.8



SECTION
SCALE 3/4" = 1'-0"
2 A3.8/A3.8



SECTION
SCALE 3/4" = 1'-0"
3 A3.8/A3.8



SECTION
SCALE 3/4" = 1'-0"
4 A3.8/A3.8

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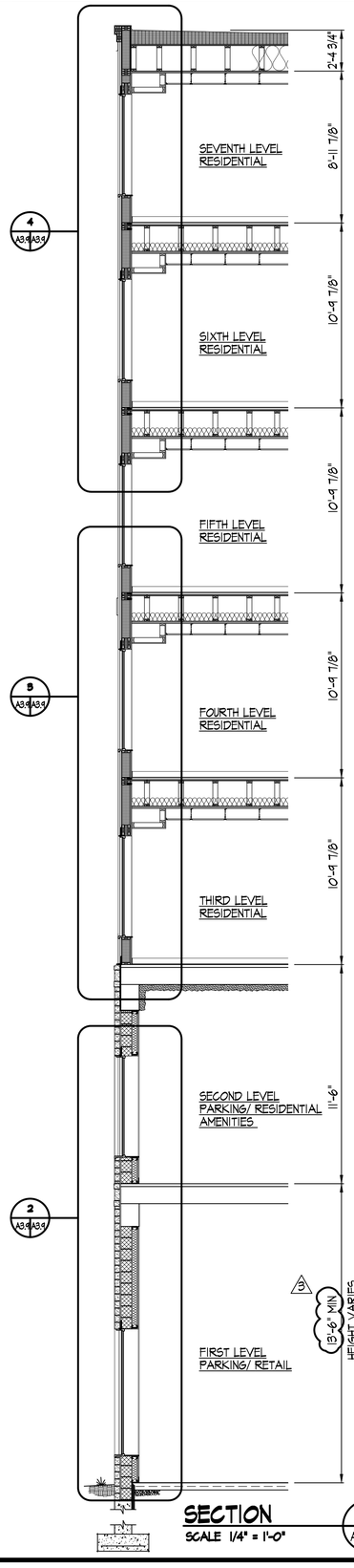
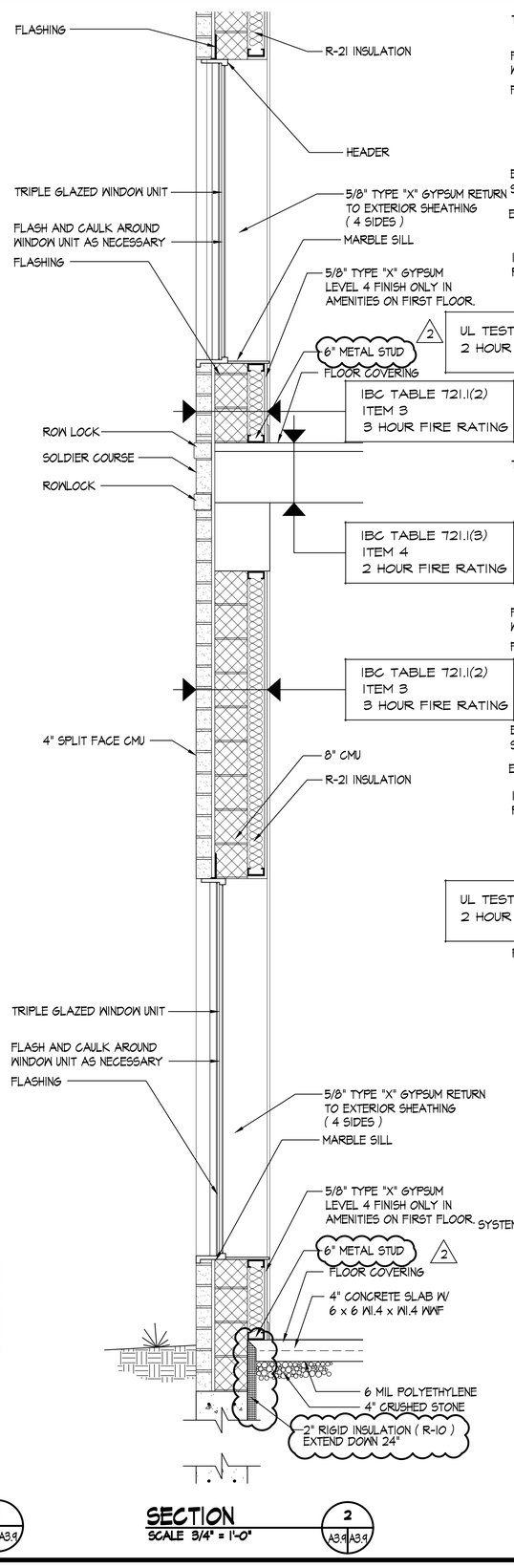


SECTION
SCALE 1/4" = 1'-0"
1 A3.1/A3.9



SECTION
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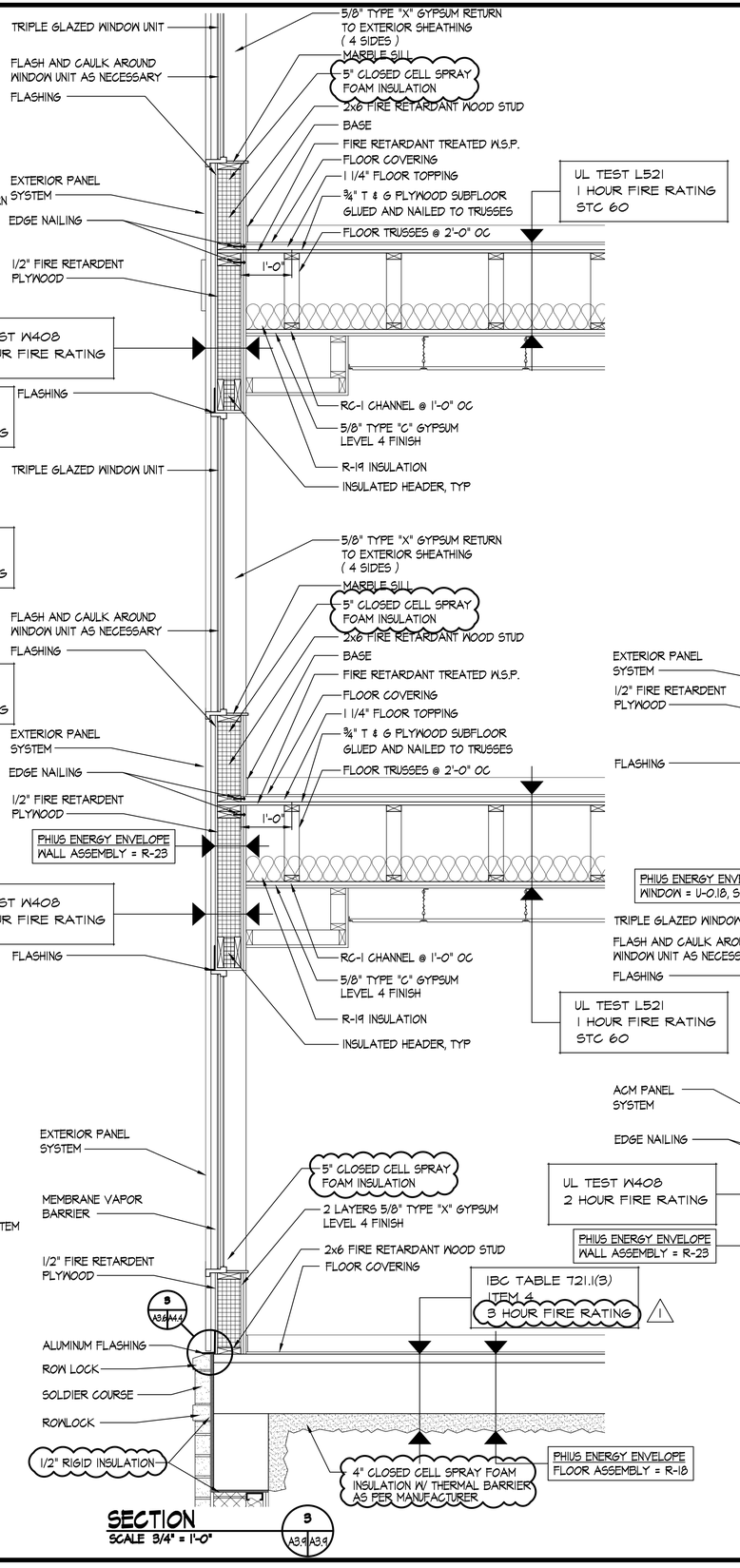
2 A3.9/A3.9



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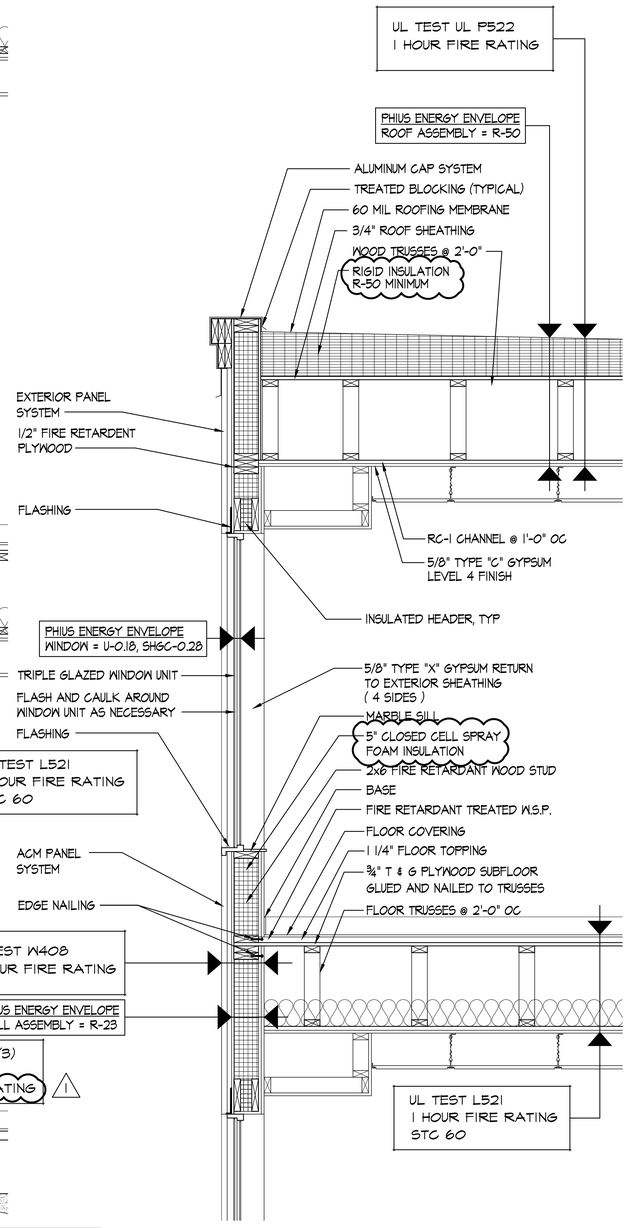
3 A3.9/A3.9



SECTION
SCALE 3/4" = 1'-0"
4 A3.9/A3.9

REVISION DATE
1 - 6 JUL 2021
2 - 8 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025

LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
26 SEP 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

JONES & JONES ASSOCIATES / ARCHITECTS PC

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
18 JUN 2021

A3.9

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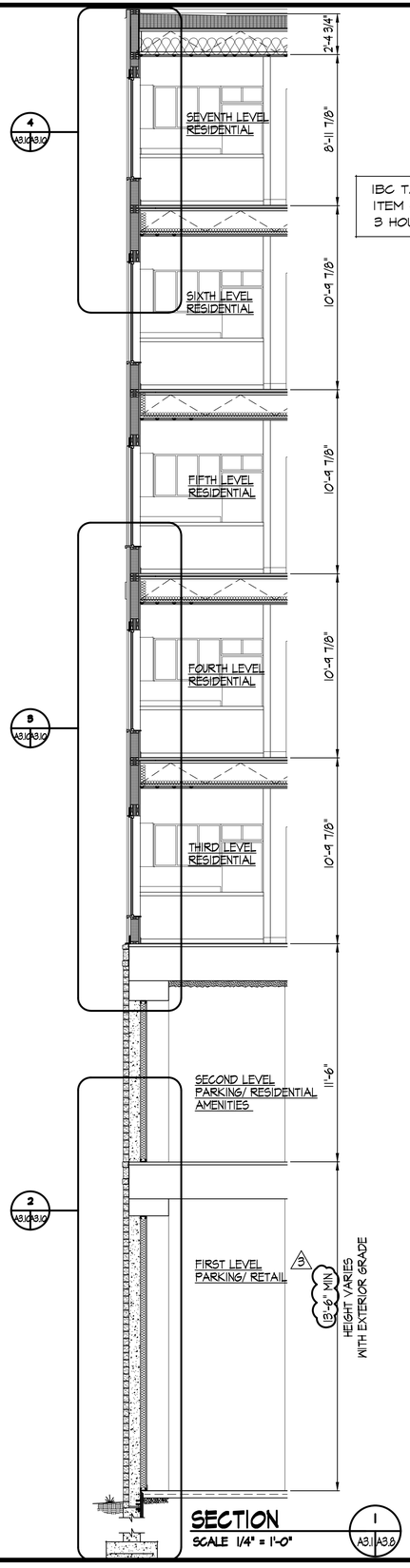

SECTION
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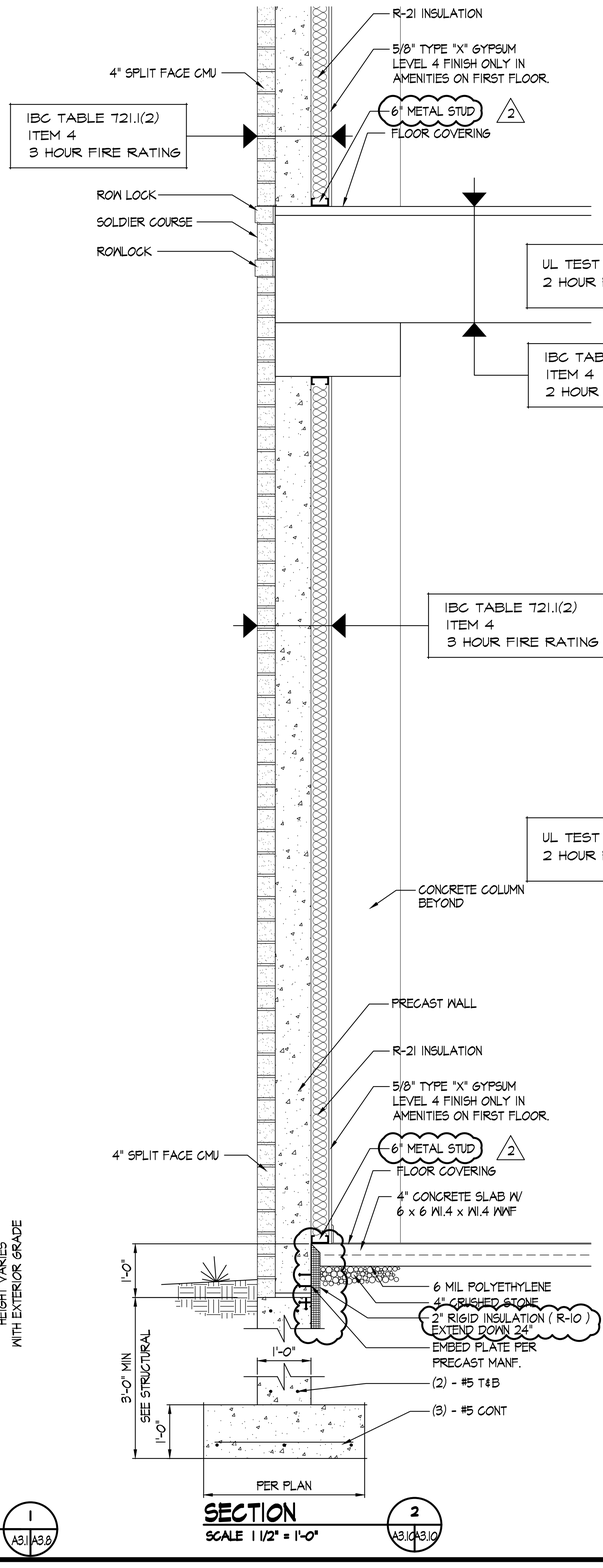
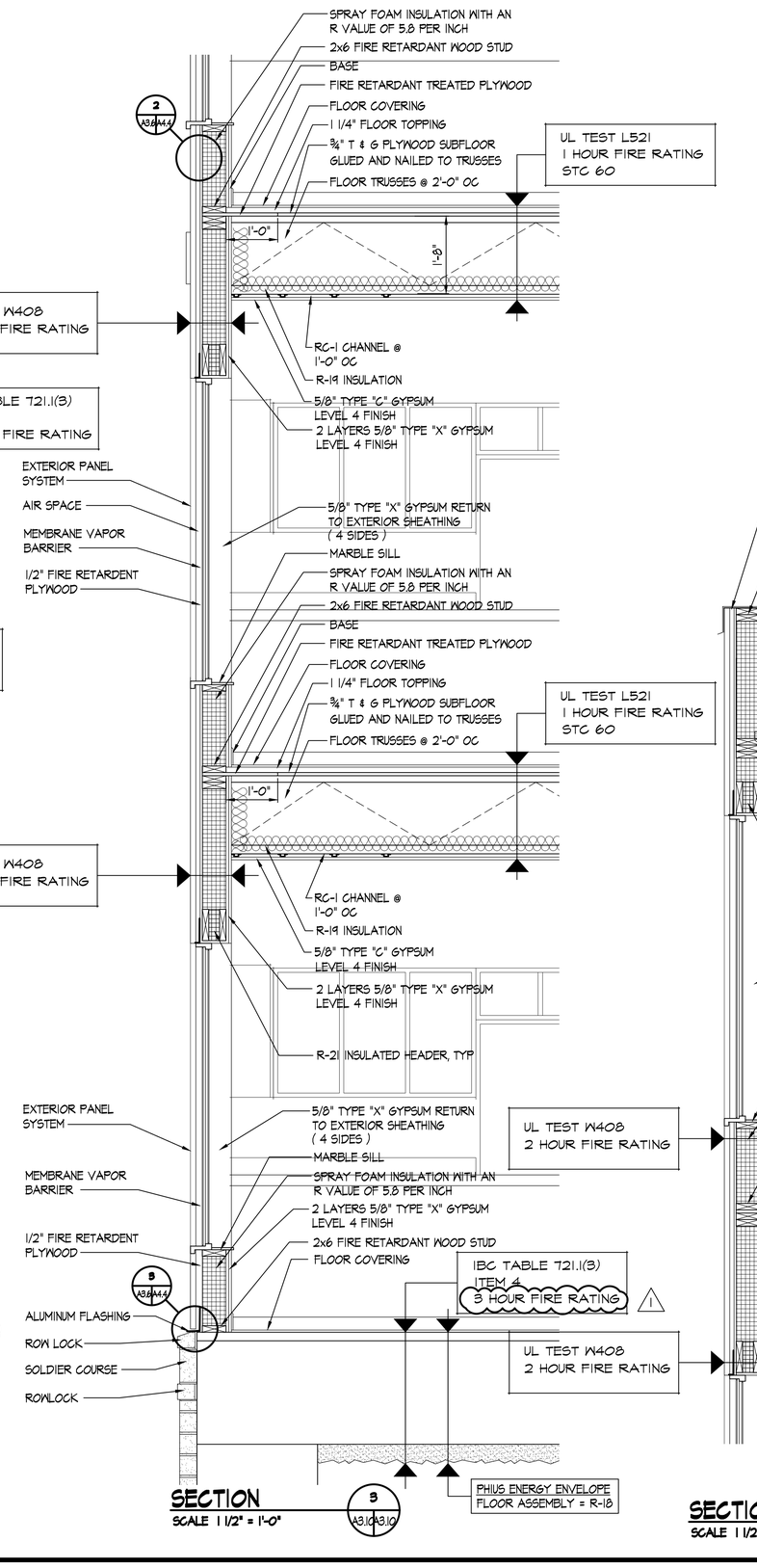
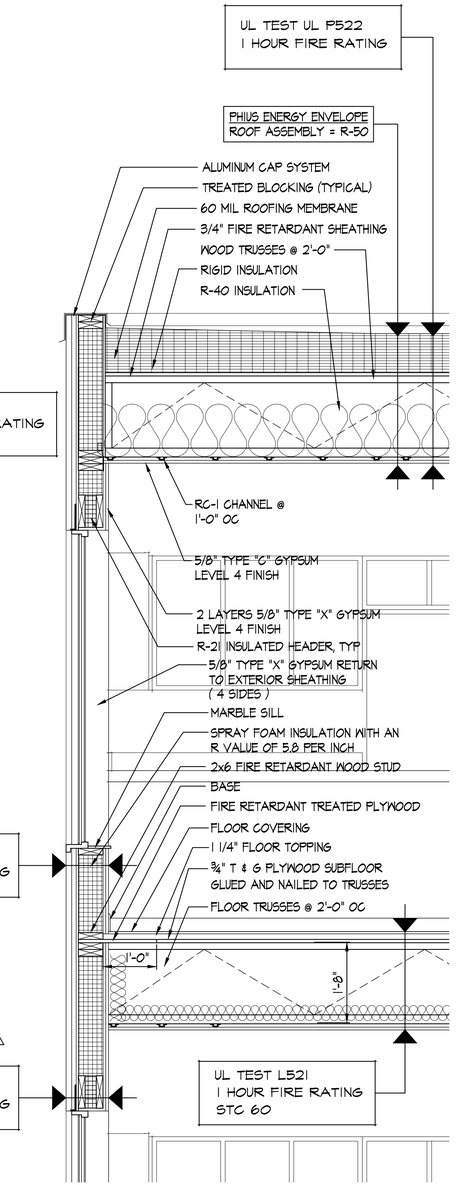
1 A3.1/A3.8



SECTION
SCALE 1 1/2" = 1'-0"
2 A3.1/A3.10



SECTION
SCALE 1 1/2" = 1'-0"
3 A3.1/A3.10



SECTION
SCALE 1 1/2" = 1'-0"
4 A3.1/A3.10

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GARDEN STATION APARTMENTS
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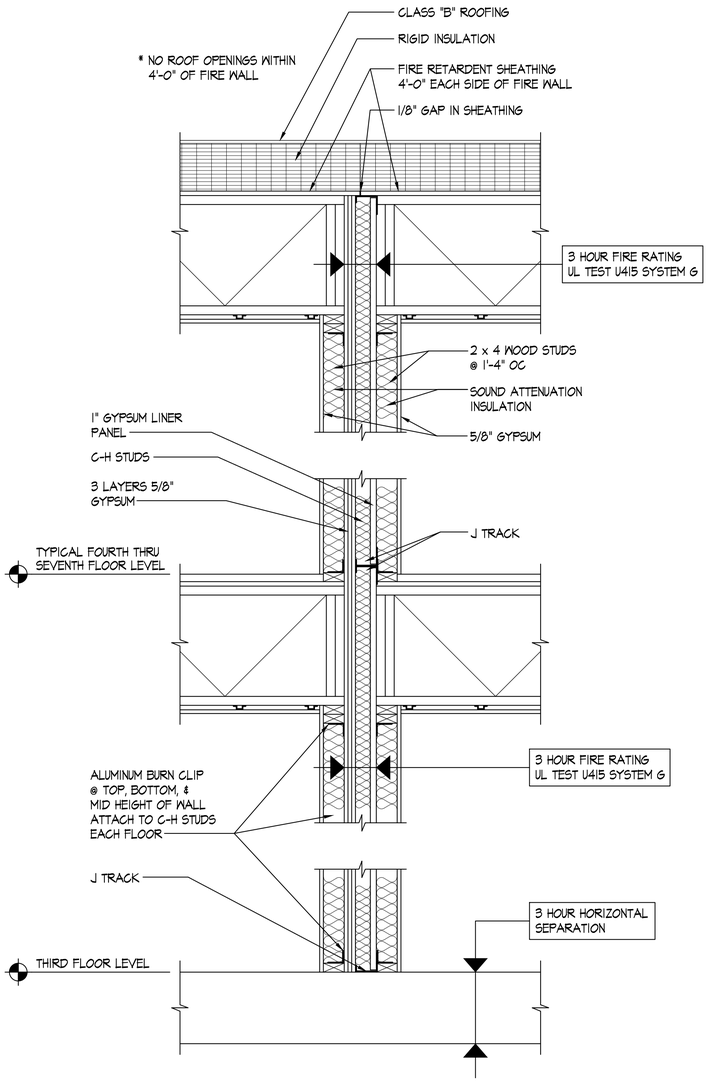
VILLA PARK, ILLINOIS

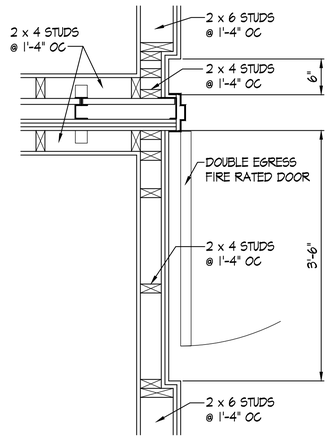
PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
18 JUN 2021

A3.10

JONES & JONES ASSOCIATES / ARCHITECTS PC



FIRE WALL SECTION
SCALE 1" = 1'-0"
1 A1.3 A3.11



FIRE WALL DETAIL @ CORRIDOR
SCALE 1" = 1'-0"
2 A1.3 A3.11

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PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
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2798
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A3.11

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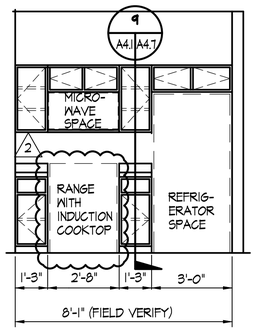
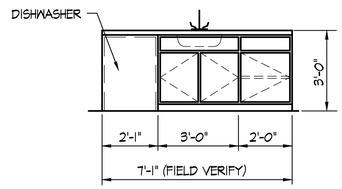
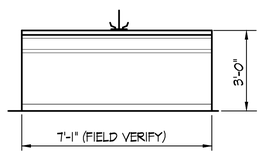
UNIT A



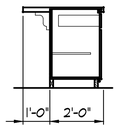
ELEVATION 1 — SCALE 3/8" = 1'-0" — A1.16 | A4.1



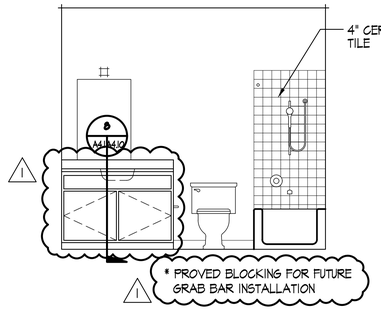
ELEVATION 2 — SCALE 3/8" = 1'-0" — A1.16 | A4.1



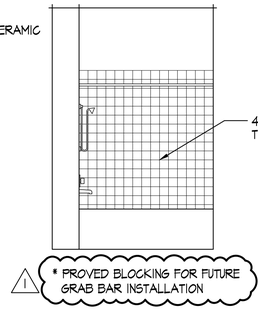
ELEVATION 3 — SCALE 3/8" = 1'-0" — A1.16 | A4.1



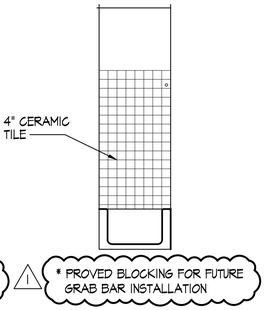
ELEVATION 4 — SCALE 3/8" = 1'-0" — A1.16 | A4.1



ELEVATION 5 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

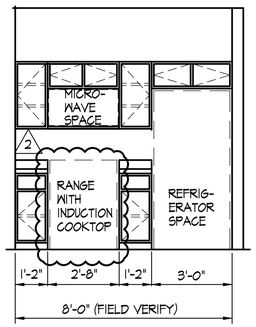


ELEVATION 6 — SCALE 3/8" = 1'-0" — A1.16 | A4.1



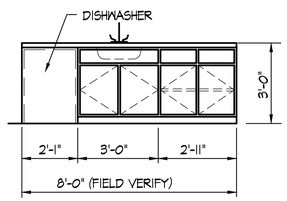
ELEVATION 7 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

UNITS B & C



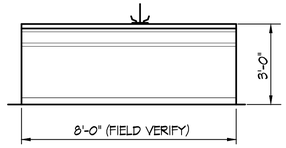
ELEVATION 8 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

*MIRRORED IN UNIT C



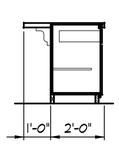
ELEVATION 9 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

*MIRRORED IN UNIT C



ELEVATION 10 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

*MIRRORED IN UNIT C



ELEVATION 11 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

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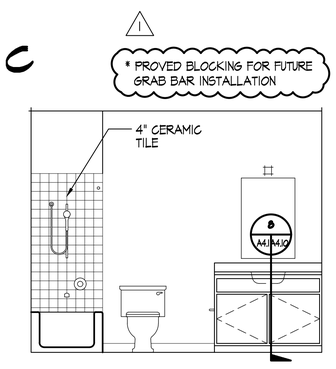
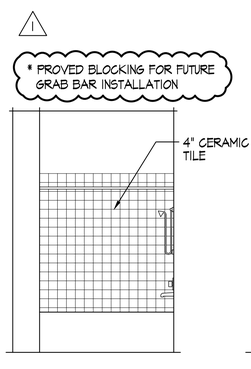


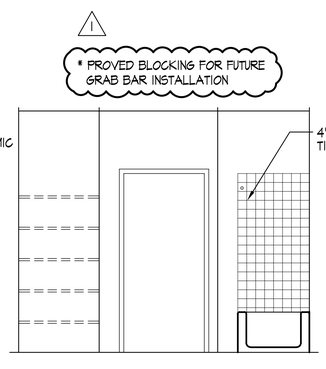
ELEVATION 12 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

*MIRRORED IN UNIT C



ELEVATION 13 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

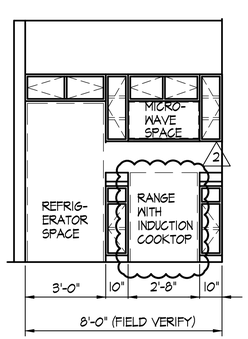
*MIRRORED IN UNIT C



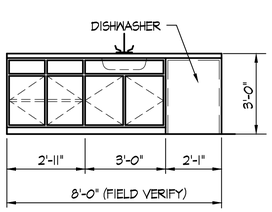
ELEVATION 14 — SCALE 3/8" = 1'-0" — A1.16 | A4.1

*MIRRORED IN UNIT C

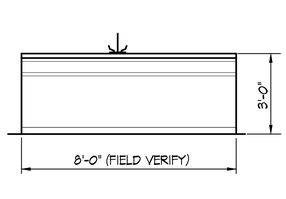
UNIT D



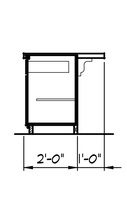
ELEVATION 15 — SCALE 3/8" = 1'-0" — A1.17 | A4.1



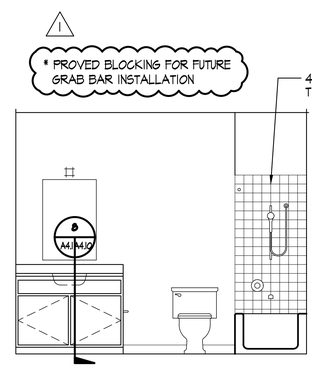
ELEVATION 16 — SCALE 3/8" = 1'-0" — A1.17 | A4.1



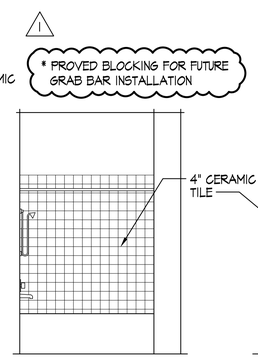
ELEVATION 17 — SCALE 3/8" = 1'-0" — A1.17 | A4.1



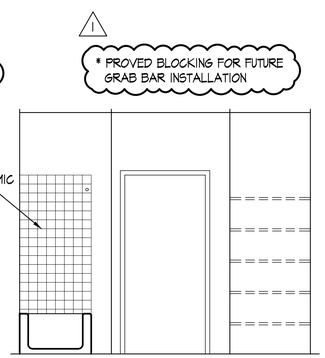
ELEVATION 18 — SCALE 3/8" = 1'-0" — A1.17 | A4.1



ELEVATION 19 — SCALE 3/8" = 1'-0" — A1.17 | A4.1



ELEVATION 20 — SCALE 3/8" = 1'-0" — A1.17 | A4.1



ELEVATION 21 — SCALE 3/8" = 1'-0" — A1.17 | A4.1

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RICHARD L. JONES, JR. 001-025003 LICENSED ARCHITECT STATE OF ILLINOIS
26 SEP 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
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PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
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A4.1

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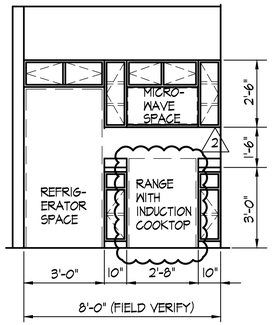
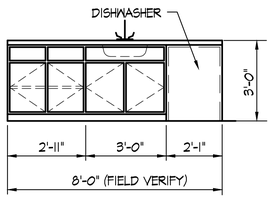
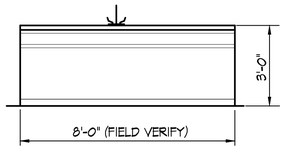
UNIT E



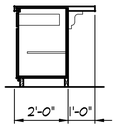
ELEVATION 1 — SCALE 3/8" = 1'-0" — A1.1T|A4.2



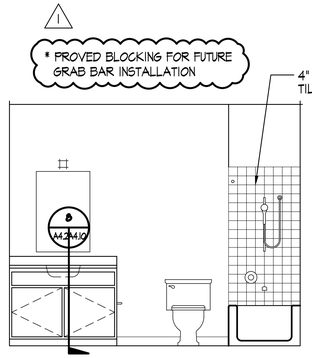
ELEVATION 2 — SCALE 3/8" = 1'-0" — A1.1T|A4.2



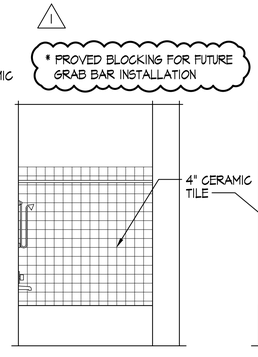
ELEVATION 3 — SCALE 3/8" = 1'-0" — A1.1T|A4.2



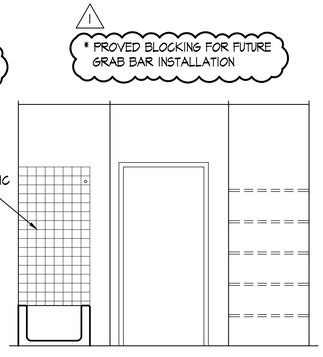
ELEVATION 4 — SCALE 3/8" = 1'-0" — A1.1T|A4.2



ELEVATION 5 — SCALE 3/8" = 1'-0" — A1.1T|A4.2

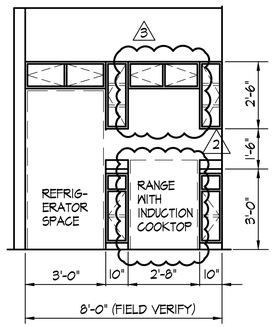


ELEVATION 6 — SCALE 3/8" = 1'-0" — A1.1T|A4.2

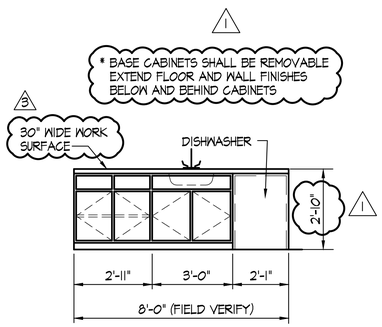


ELEVATION 7 — SCALE 3/8" = 1'-0" — A1.1T|A4.2

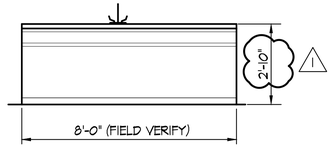
UNIT E-ADA



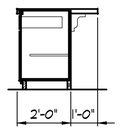
ELEVATION 8 — SCALE 3/8" = 1'-0" — A1.1T|A4.2



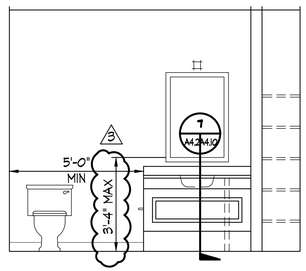
ELEVATION 9 — SCALE 3/8" = 1'-0" — A1.1T|A4.2



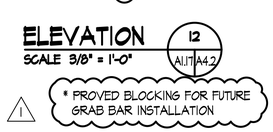
ELEVATION 10 — SCALE 3/8" = 1'-0" — A1.1T|A4.2

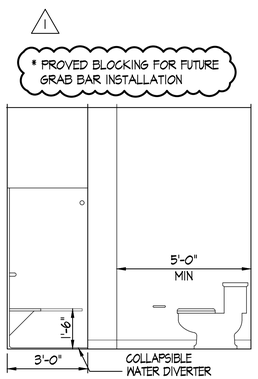


ELEVATION 11 — SCALE 3/8" = 1'-0" — A1.1T|A4.2

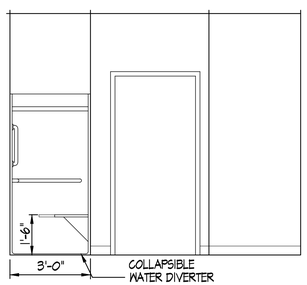


ELEVATION 12 — SCALE 3/8" = 1'-0" — A1.1T|A4.2

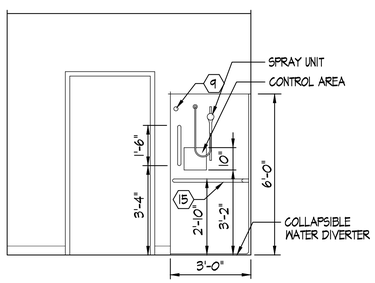




ELEVATION 13 — SCALE 3/8" = 1'-0" — A1.1T|A4.2



ELEVATION 14 — SCALE 3/8" = 1'-0" — A1.1T|A4.2



ELEVATION 15 — SCALE 3/8" = 1'-0" — A1.1T|A4.2

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001-025003
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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A4.2

JONES & JONES ASSOCIATES / ARCHITECTS PC

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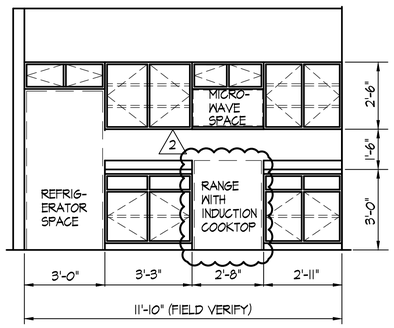
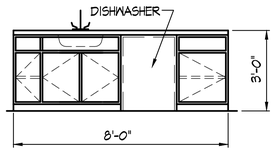
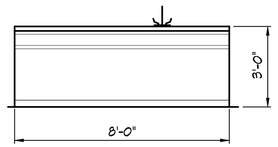
UNIT F



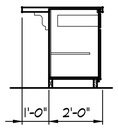
ELEVATION 1 — SCALE 3/8" = 1'-0" — A1.1B/A4.3



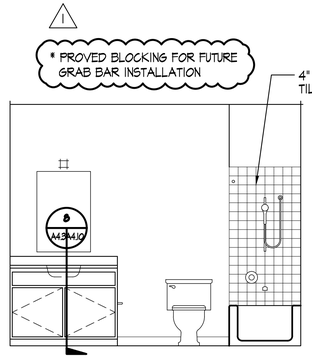
ELEVATION 2 — SCALE 3/8" = 1'-0" — A1.1B/A4.3



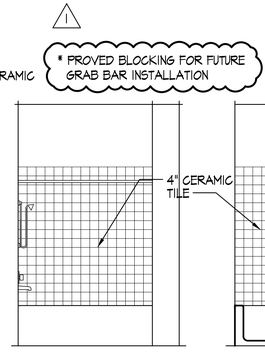
ELEVATION 3 — SCALE 3/8" = 1'-0" — A1.1B/A4.3



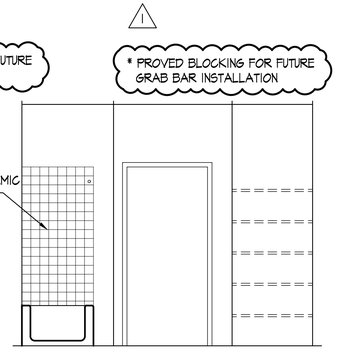
ELEVATION 4 — SCALE 3/8" = 1'-0" — A1.1B/A4.3



ELEVATION 5 — SCALE 3/8" = 1'-0" — A1.1B/A4.3

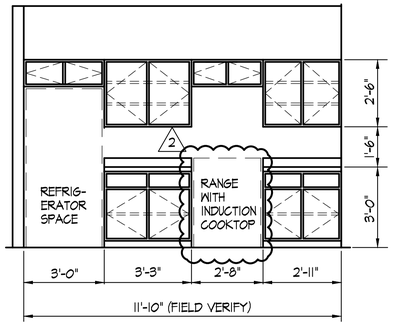


ELEVATION 6 — SCALE 3/8" = 1'-0" — A1.1B/A4.3



ELEVATION 7 — SCALE 3/8" = 1'-0" — A1.1B/A4.3

UNIT F - ADA



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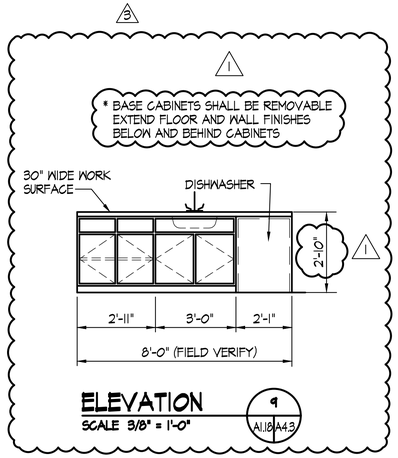
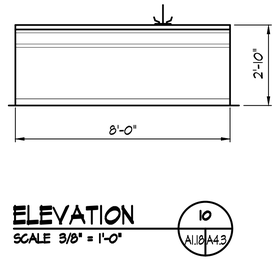
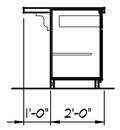


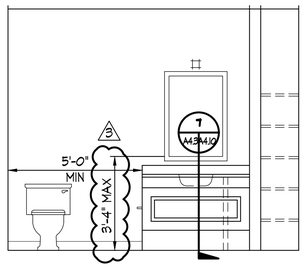
ELEVATION 9 — SCALE 3/8" = 1'-0" — A1.1B/A4.3



ELEVATION 10 — SCALE 3/8" = 1'-0" — A1.1B/A4.3



ELEVATION 11 — SCALE 3/8" = 1'-0" — A1.1B/A4.3



ELEVATION 12 — SCALE 3/8" = 1'-0" — A1.1B/A4.3

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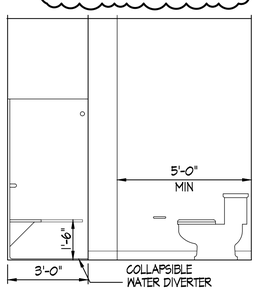
* PROVED BLOCKING FOR FUTURE GRAB BAR INSTALLATION



ELEVATION 13 — SCALE 3/8" = 1'-0" — A1.1B/A4.3

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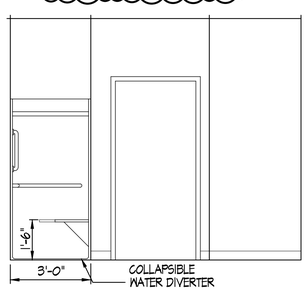

ELEVATION 14 — SCALE 3/8" = 1'-0" — A1.1B/A4.3

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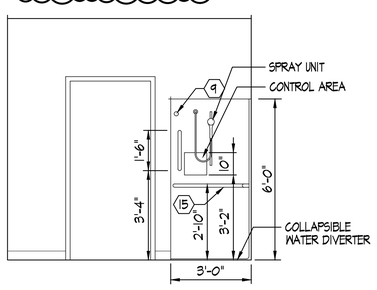

ELEVATION 15 — SCALE 3/8" = 1'-0" — A1.1B/A4.3

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

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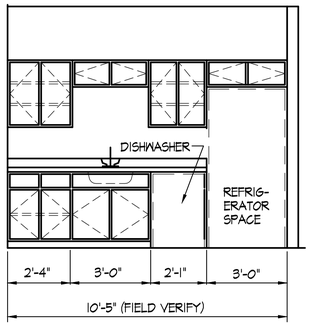
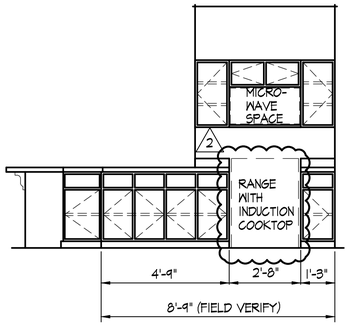
JONES & JONES ASSOCIATES / ARCHITECTS PC

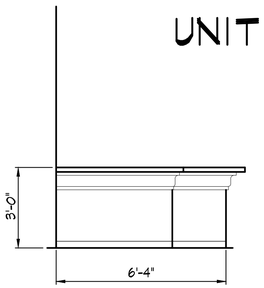
UNIT G



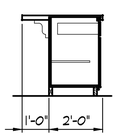
ELEVATION 1 — SCALE 3/8" = 1'-0" — A1.1B|A4.4



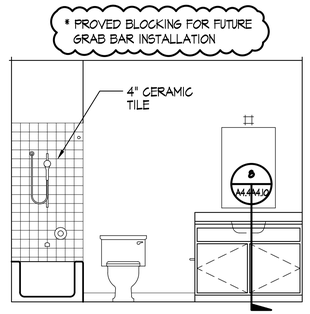
ELEVATION 2 — SCALE 3/8" = 1'-0" — A1.1B|A4.4



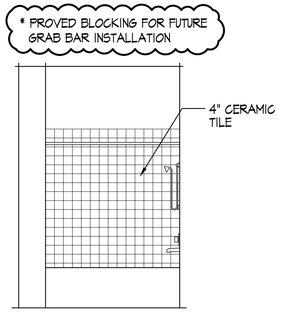
ELEVATION 3 — SCALE 3/8" = 1'-0" — A1.1B|A4.4



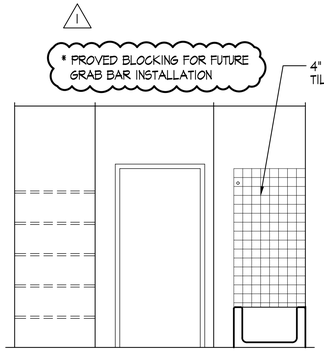
ELEVATION 4 — SCALE 3/8" = 1'-0" — A1.1B|A4.4



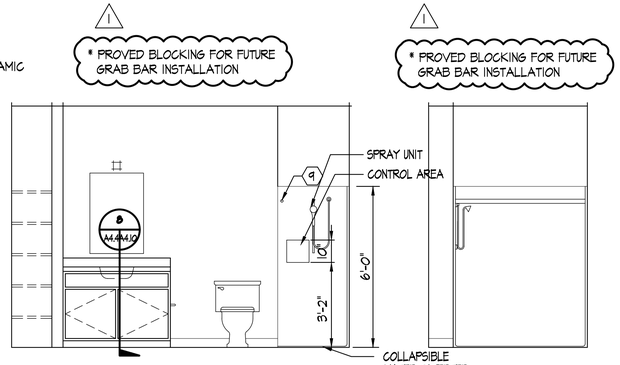
ELEVATION 5 — SCALE 3/8" = 1'-0" — A1.1B|A4.4



ELEVATION 6 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

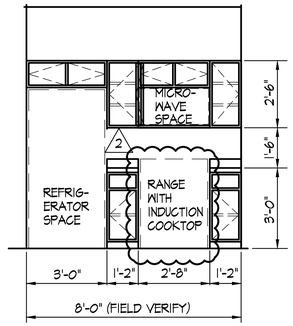


ELEVATION 7 — SCALE 3/8" = 1'-0" — A1.1B|A4.4



ELEVATION 8 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

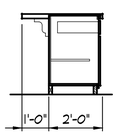
ELEVATION 9 — SCALE 3/8" = 1'-0" — A1.1B|A4.4



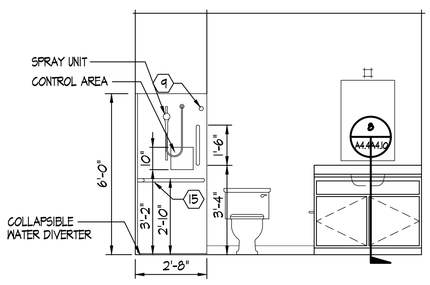
ELEVATION 10 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

ELEVATION 11 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

ELEVATION 12 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

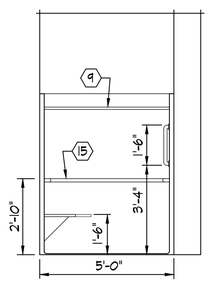


ELEVATION 13 — SCALE 3/8" = 1'-0" — A1.1B|A4.4



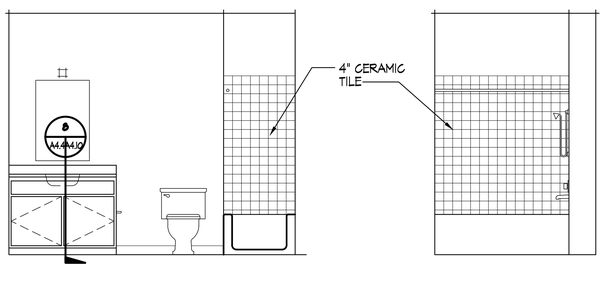
ELEVATION 14 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

1 * PROVED BLOCKING FOR FUTURE GRAB BAR INSTALLATION



ELEVATION 15 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

1 * PROVED BLOCKING FOR FUTURE GRAB BAR INSTALLATION

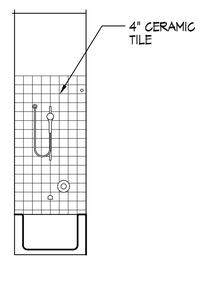


ELEVATION 16 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

1 * PROVED BLOCKING FOR FUTURE GRAB BAR INSTALLATION

ELEVATION 17 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

1 * PROVED BLOCKING FOR FUTURE GRAB BAR INSTALLATION



ELEVATION 18 — SCALE 3/8" = 1'-0" — A1.1B|A4.4

1 * PROVED BLOCKING FOR FUTURE GRAB BAR INSTALLATION

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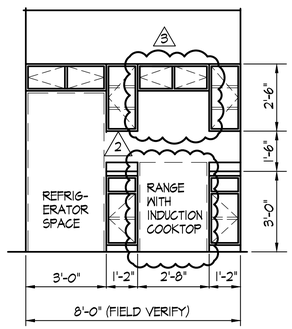
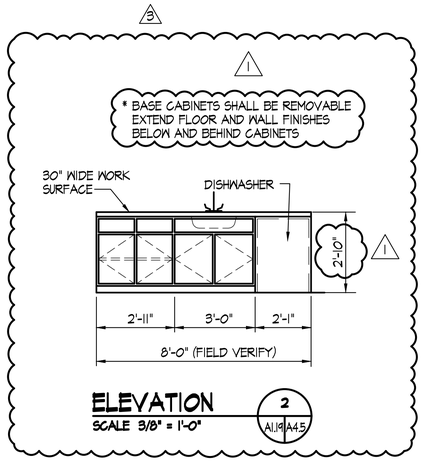
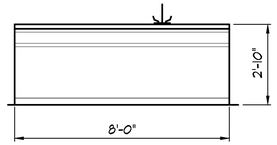
UNIT H - ADA



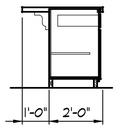
ELEVATION 1 — SCALE 3/8" = 1'-0" — A1.1 | A4.5



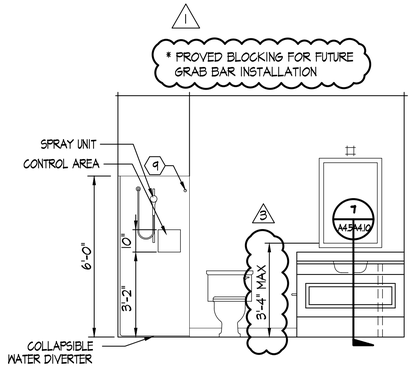
ELEVATION 2 — SCALE 3/8" = 1'-0" — A1.1 | A4.5



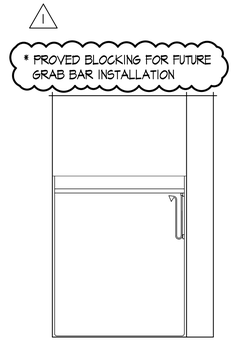
ELEVATION 3 — SCALE 3/8" = 1'-0" — A1.1 | A4.5



ELEVATION 4 — SCALE 3/8" = 1'-0" — A1.1 | A4.5



ELEVATION 5 — SCALE 3/8" = 1'-0" — A1.1 | A4.5

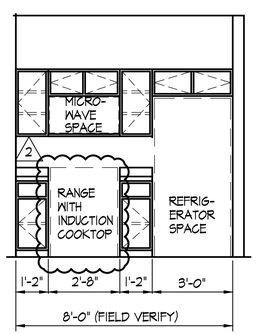


ELEVATION 6 — SCALE 3/8" = 1'-0" — A1.1 | A4.5

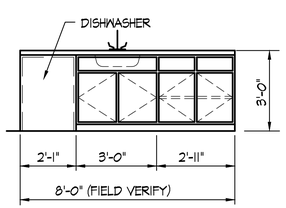
ELEVATION 7 — SCALE 3/8" = 1'-0" — A1.1 | A4.5

ELEVATION 8 — SCALE 3/8" = 1'-0" — A1.1 | A4.5

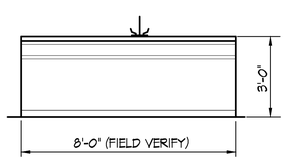
ELEVATION 9 — SCALE 3/8" = 1'-0" — A1.1 | A4.5



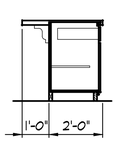
ELEVATION 10 — SCALE 3/8" = 1'-0" — A1.2 | A4.5



ELEVATION 11 — SCALE 3/8" = 1'-0" — A1.2 | A4.5

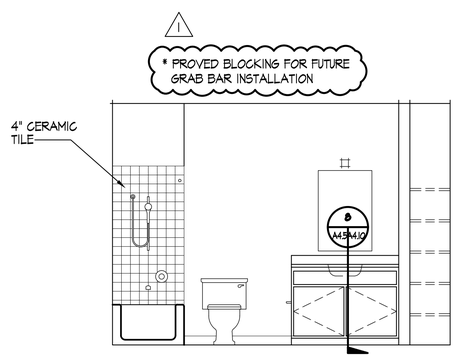


ELEVATION 12 — SCALE 3/8" = 1'-0" — A1.2 | A4.5

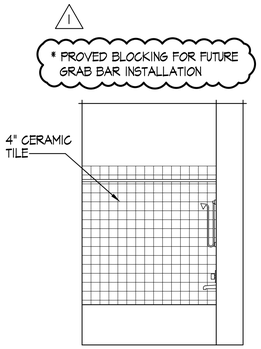


ELEVATION 13 — SCALE 3/8" = 1'-0" — A1.2 | A4.5

UNIT J



ELEVATION 14 — SCALE 3/8" = 1'-0" — A1.2 | A4.5



ELEVATION 15 — SCALE 3/8" = 1'-0" — A1.2 | A4.5

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
18 JUN 2021

A4.5

JONES & JONES ASSOCIATES / ARCHITECTS PC

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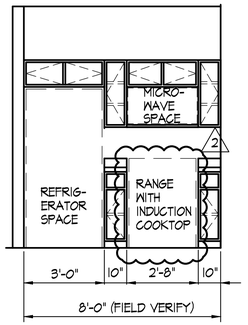
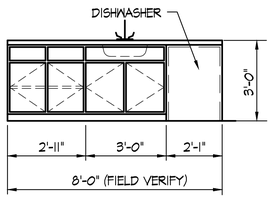
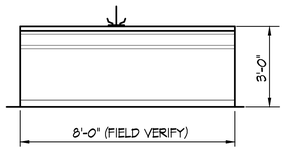
UNIT K



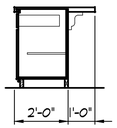
ELEVATION 1 A1.20A4.6
SCALE 3/8" = 1'-0"



ELEVATION 2 A1.20A4.6
SCALE 3/8" = 1'-0"

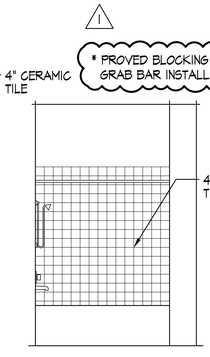


ELEVATION 3 A1.20A4.6
SCALE 3/8" = 1'-0"

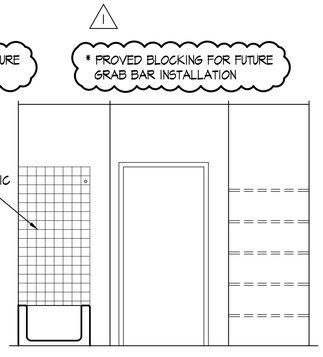


ELEVATION 4 A1.20A4.6
SCALE 3/8" = 1'-0"

ELEVATION 5 A1.20A4.6
SCALE 3/8" = 1'-0"

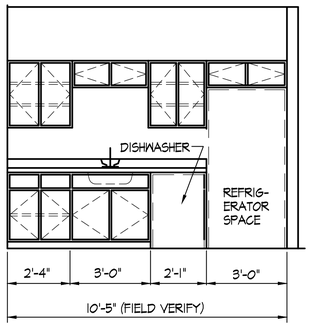


ELEVATION 6 A1.20A4.6
SCALE 3/8" = 1'-0"



ELEVATION 7 A1.20A4.6
SCALE 3/8" = 1'-0"

UNIT L



ELEVATION 8 A1.20A4.6
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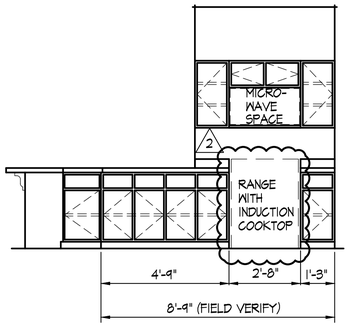

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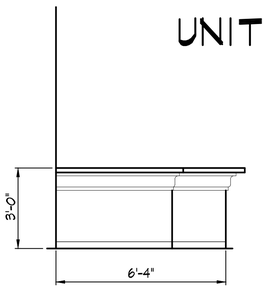
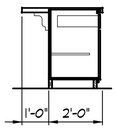
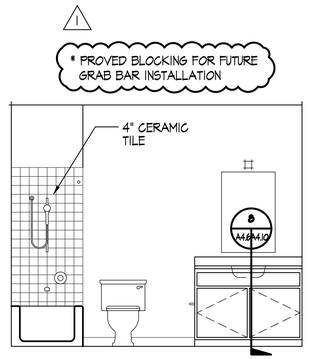


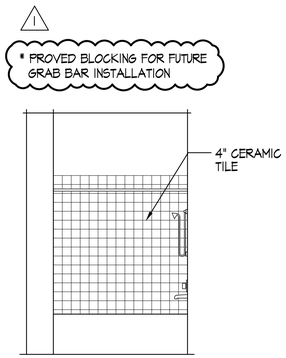
ELEVATION 10 A1.20A4.6
SCALE 3/8" = 1'-0"



ELEVATION 11 A1.20A4.6
SCALE 3/8" = 1'-0"



ELEVATION 12 A1.20A4.6
SCALE 3/8" = 1'-0"



ELEVATION 13 A1.20A4.6
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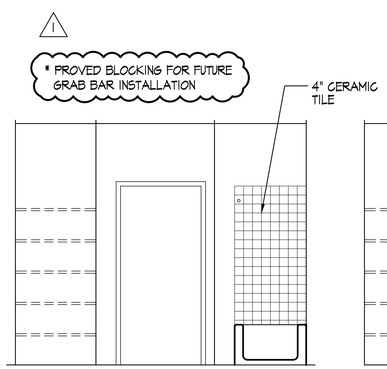

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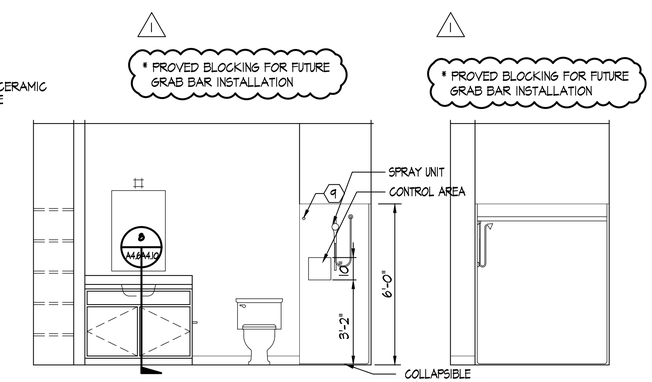

ELEVATION 15 A1.20A4.6
SCALE 3/8" = 1'-0"

ELEVATION 16 A1.20A4.6
SCALE 3/8" = 1'-0"

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

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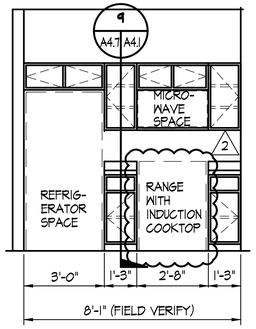
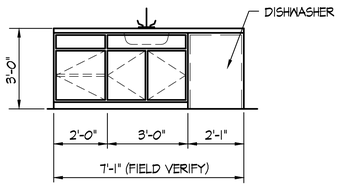
JONES & JONES ASSOCIATES / ARCHITECTS PC

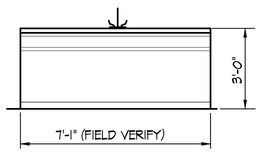
UNIT M



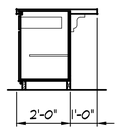
ELEVATION 1 — SCALE 3/8" = 1'-0" — A1.2|A4.7



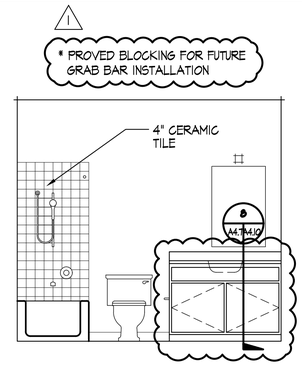
ELEVATION 2 — SCALE 3/8" = 1'-0" — A1.2|A4.7



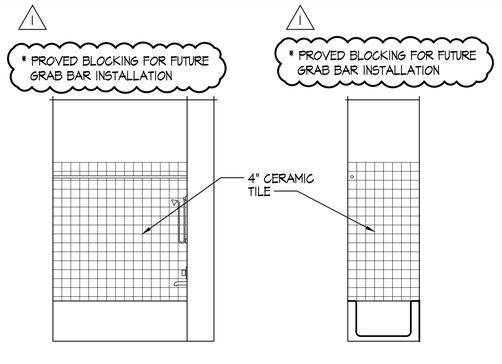
ELEVATION 3 — SCALE 3/8" = 1'-0" — A1.2|A4.7



ELEVATION 4 — SCALE 3/8" = 1'-0" — A1.2|A4.7



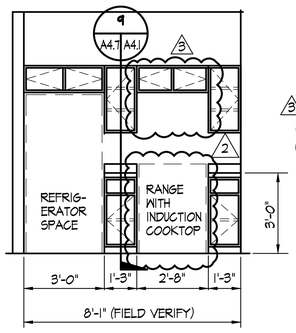
ELEVATION 5 — SCALE 3/8" = 1'-0" — A1.2|A4.7



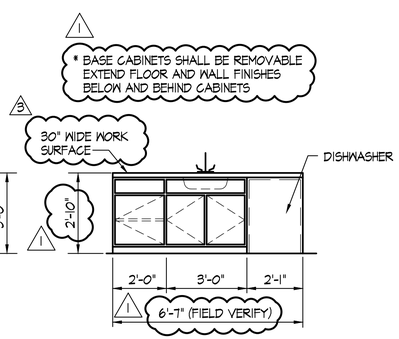
ELEVATION 6 — SCALE 3/8" = 1'-0" — A1.2|A4.7

ELEVATION 7 — SCALE 3/8" = 1'-0" — A1.2|A4.7

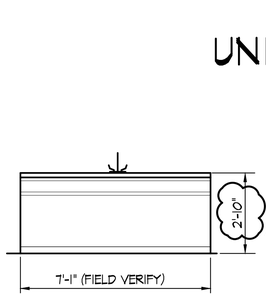
UNIT M-ADA



ELEVATION 8 — SCALE 3/8" = 1'-0" — A1.2|A4.7

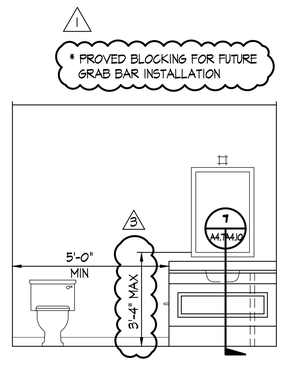


ELEVATION 9 — SCALE 3/8" = 1'-0" — A1.2|A4.7

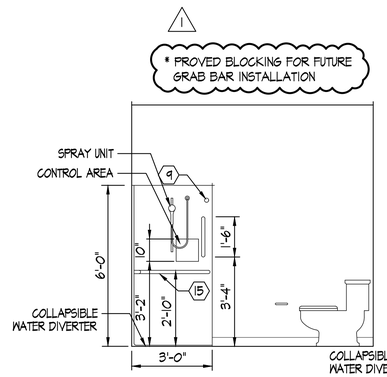


ELEVATION 10 — SCALE 3/8" = 1'-0" — A1.2|A4.7

ELEVATION 11 — SCALE 3/8" = 1'-0" — A1.2|A4.7



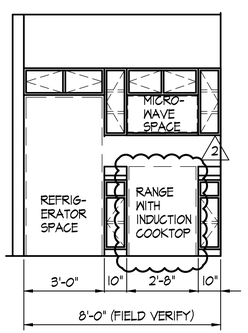
ELEVATION 12 — SCALE 3/8" = 1'-0" — A1.2|A4.7



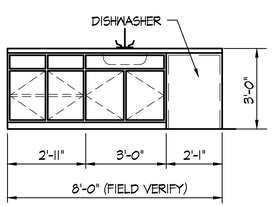
ELEVATION 13 — SCALE 3/8" = 1'-0" — A1.2|A4.7

ELEVATION 14 — SCALE 3/8" = 1'-0" — A1.2|A4.7

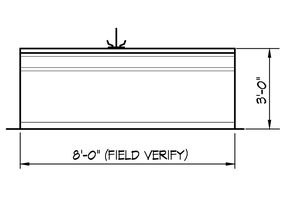
UNIT N



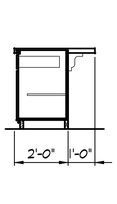
ELEVATION 15 — SCALE 3/8" = 1'-0" — A1.2|A4.7



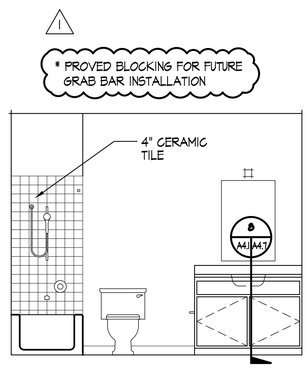
ELEVATION 16 — SCALE 3/8" = 1'-0" — A1.2|A4.7



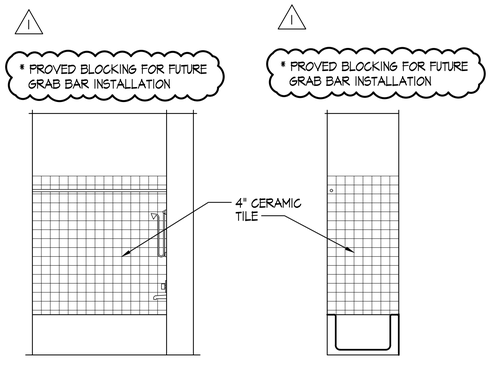
ELEVATION 17 — SCALE 3/8" = 1'-0" — A1.2|A4.7



ELEVATION 18 — SCALE 3/8" = 1'-0" — A1.2|A4.7



ELEVATION 19 — SCALE 3/8" = 1'-0" — A1.2|A4.7



ELEVATION 20 — SCALE 3/8" = 1'-0" — A1.2|A4.7

ELEVATION 21 — SCALE 3/8" = 1'-0" — A1.2|A4.7

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RICHARD L. JONES, JR. 001-025003 LICENSED ARCHITECT STATE OF ILLINOIS
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ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
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TECHNICIANS
JMB
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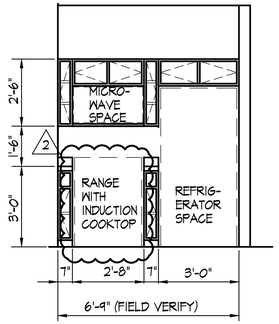
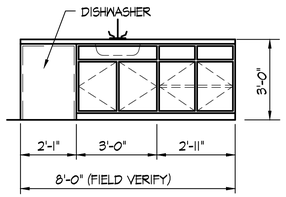
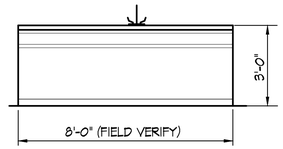
TYPE O



ELEVATION 1
SCALE 3/8" = 1'-0"
A1.22A4.8



ELEVATION 2
SCALE 3/8" = 1'-0"
A1.22A4.8



ELEVATION 3
SCALE 3/8" = 1'-0"
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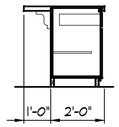

ELEVATION 4
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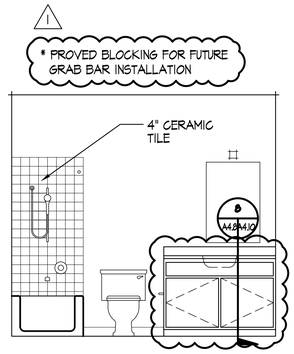
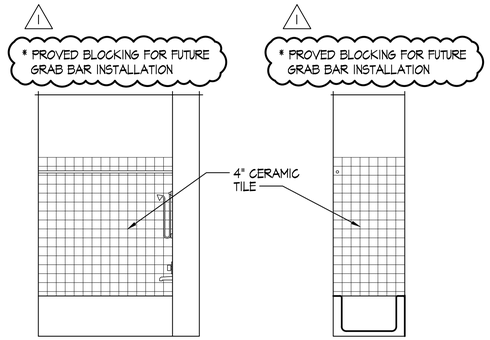


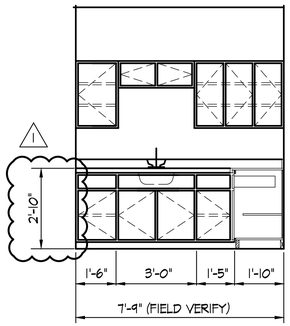
ELEVATION 5
SCALE 3/8" = 1'-0"
A1.22A4.8



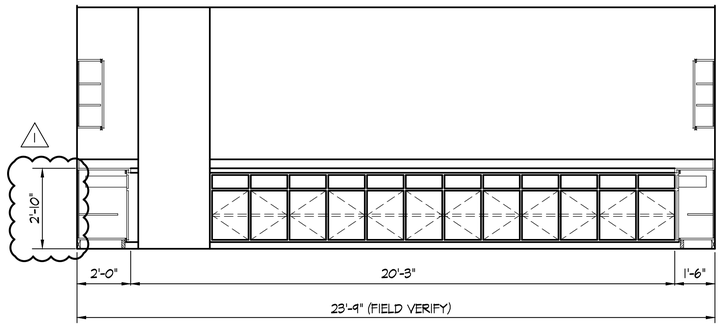
ELEVATION 6
SCALE 3/8" = 1'-0"
A1.22A4.8

ELEVATION 7
SCALE 3/8" = 1'-0"
A1.22A4.8

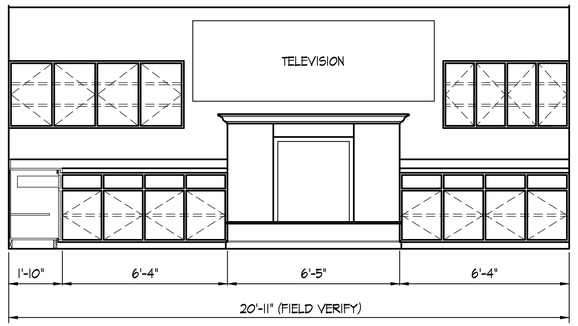
COMMON AREAS



ELEVATION 8
SCALE 3/8" = 1'-0"
A1.23A4.8



ELEVATION 9
SCALE 3/8" = 1'-0"
A1.23A4.8



ELEVATION 10
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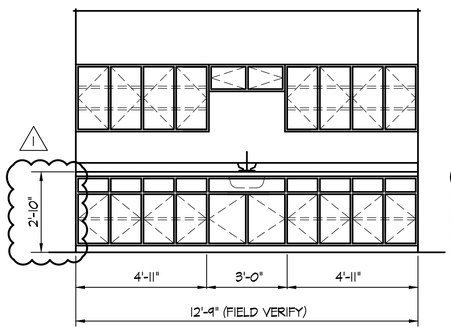
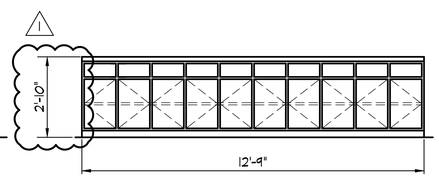
A1.23A4.8



ELEVATION 11
SCALE 3/8" = 1'-0"
A1.23A4.8



ELEVATION 12
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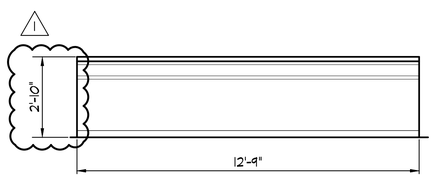
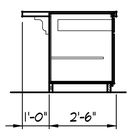


ELEVATION 13
SCALE 3/8" = 1'-0"
A1.23A4.8



ELEVATION 14
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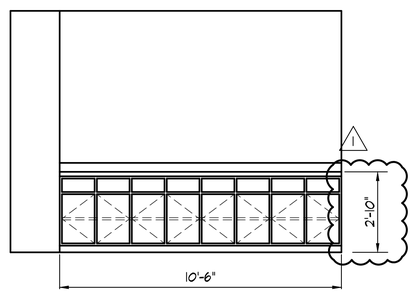
A1.23A4.8



ELEVATION 15
SCALE 3/8" = 1'-0"
A1.23A4.8

REVISION DATE
1 - 6 JUL 2021
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LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
26 SEP 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2198
DATE
18 JUN 2021

A4.8

JONES & JONES ASSOCIATES / ARCHITECTS PC

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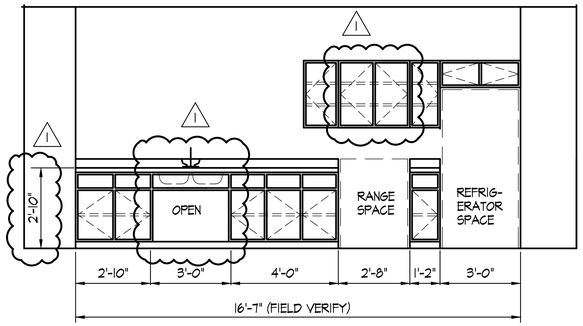
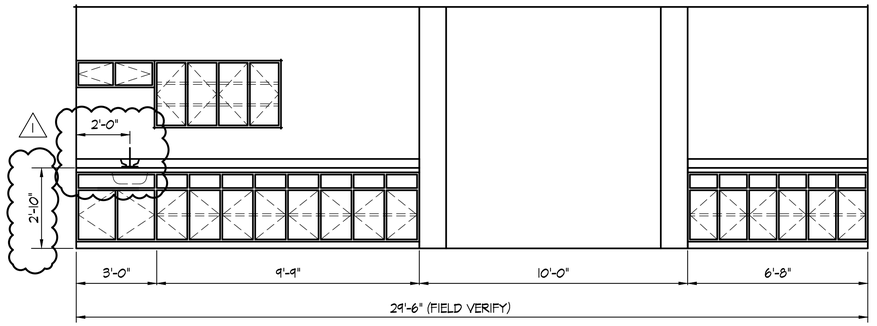


ELEVATION 1
SCALE 3/8" = 1'-0"
A1.2 3 A4.9



ELEVATION 2
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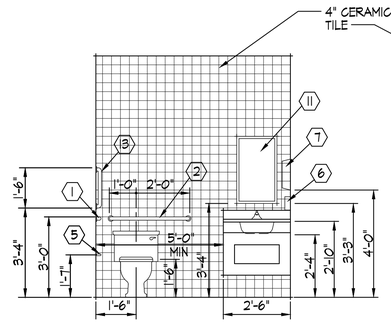
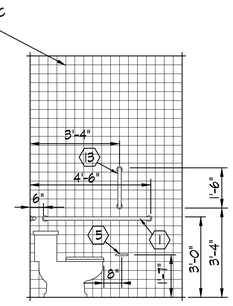
A1.2 3 A4.9



TYPICAL ELEVATION @ PUBLIC TOILETS
SCALE 3/8" = 1'-0"



TYPICAL ELEVATION @ PUBLIC TOILETS
SCALE 3/8" = 1'-0"

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RICHARD L. JONES, JR.
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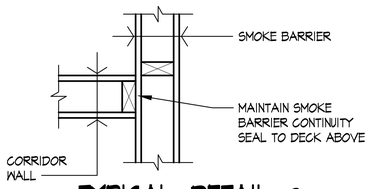
STATE OF ILLINOIS
26 SEP 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

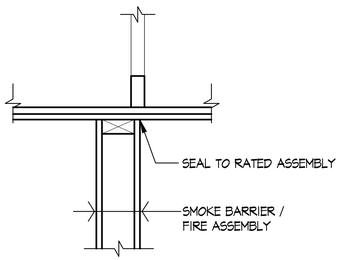
PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A4.9

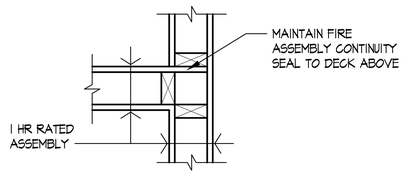
JONES & JONES ASSOCIATES / ARCHITECTS PC



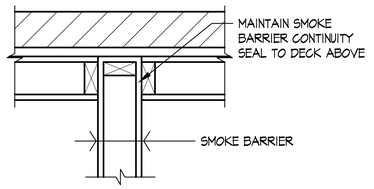
TYPICAL DETAIL @ SMOKE BARRIER
SCALE 1 1/2" = 1'-0"



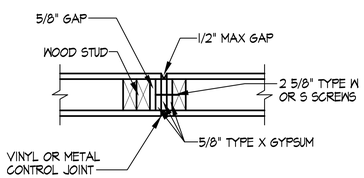
TYPICAL DETAIL @ SMOKE BARRIER
SCALE 1 1/2" = 1'-0"



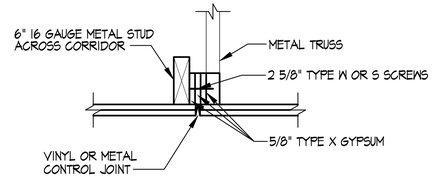
TYPICAL DETAIL @ FIRE PARTITION
SCALE 1 1/2" = 1'-0"



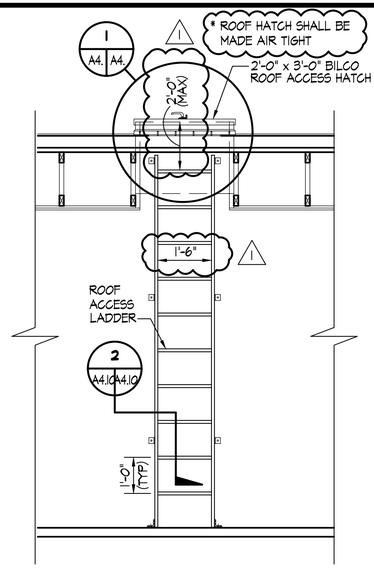
TYPICAL DETAIL @ SMOKE BARRIER
SCALE 1 1/2" = 1'-0"



TYPICAL WALL CONTROL JOINT
SCALE 1 1/2" = 1'-0"

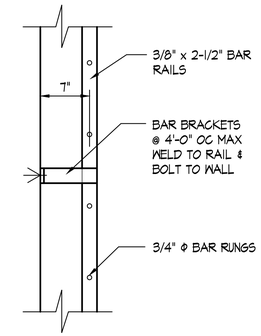


TYPICAL CEILING CONTROL JOINT
SCALE 1 1/2" = 1'-0"

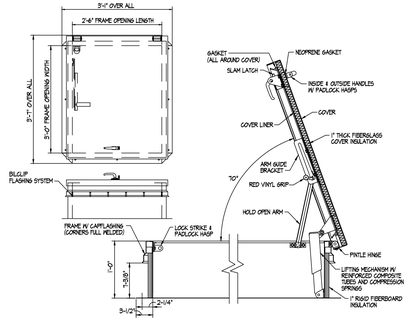


SECTION
SCALE 1/2" = 1'-0" — 1 / A1.1 A4.1

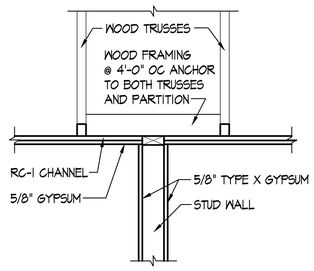
NOTE-
ALL ACCESS LADDERS SHALL COMPLY WITH THE 2015 INTERNATIONAL MECHANICAL CODE 306.5



SECTION
SCALE 1" = 1'-0" — 2 / A4.1 A4.1

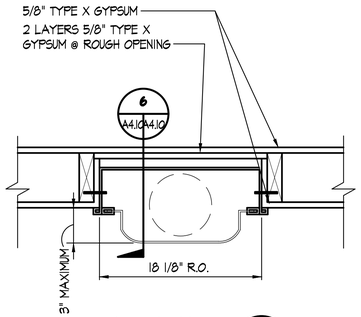


SECTION
SCALE 1/2" = 1'-0" — 3 / A4.1 A4.1

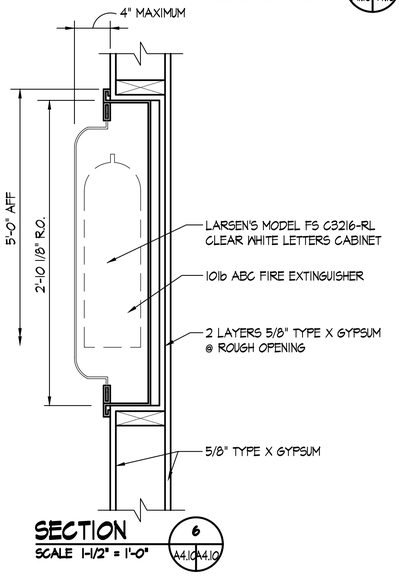


(TYPICAL AT WALLS PARALLEL TO TRUSSES)

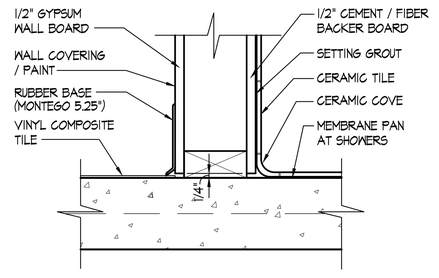
SECTION
SCALE 1" = 1'-0" — 4 / A1.6 A4.1



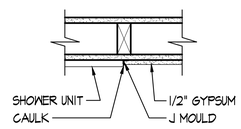
SECTION
SCALE 1-1/2" = 1'-0" — 5 / A1.1 A4.1



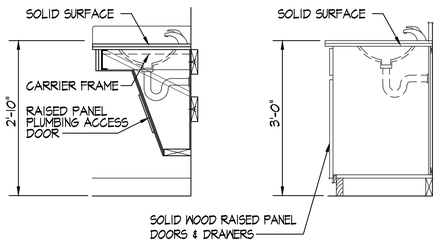
SECTION
SCALE 1-1/2" = 1'-0" — 6 / A4.1 A4.1



TYPICAL BASE DETAIL
SCALE 3" = 1'-0"

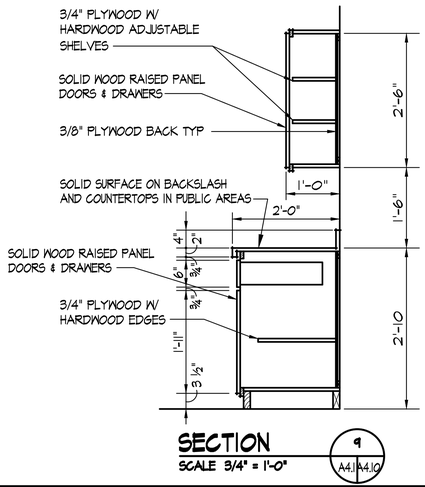


TYPICAL DETAIL @ SHOWER UNIT
SCALE 1 1/2" = 1'-0"



SECTION
SCALE 3/4" = 1'-0" — 7 / A4.1 A4.1

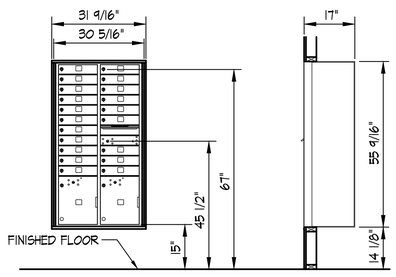
SECTION
SCALE 3/4" = 1'-0" — 8 / A4.1 A4.1



SECTION
SCALE 3/4" = 1'-0" — 9 / A4.1 A4.1

TOILET ACCESSORIES

	DESCRIPTION	MODEL
1	GRAB BAR - 1 1/2" x 48" LONG	BOBRICK B6806x42"
2	GRAB BAR - 1 1/2" x 36" LONG	BOBRICK B-6806x36"
3	GRAB BAR - 1 1/2" x 24" LONG	BOBRICK B6866
4	TOWEL BAR - 18" LONG	BOBRICK B-674x18"
5	TOILET PAPER DISPENSER	BOBRICK B-685
6	SOAP DISPENSER	BY OWNER
7	PAPER TOWEL DISPENSER	BY OWNER
8	DOUBLE ROBE HOOK	BOBRICK B-672
9	SHOWER CURTAIN ROD	BOBRICK B-6107
10	PRIVACY CURTAIN TRACK	BY OWNER
11	MIRROR 18" x 30"	BOBRICK B-290-1830
12	MIRROR 36" x 42"	BOBRICK B-290-3642
13	GRAB BAR - 1 1/2" x 18" LONG	BOBRICK B-6806x18"
15	GRAB BAR	W/ SHOWER UNIT



MAILBOX ELEVATION
SCALE 1/2" = 1'-0" — 10 / A1.2 A4.1

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A4.10

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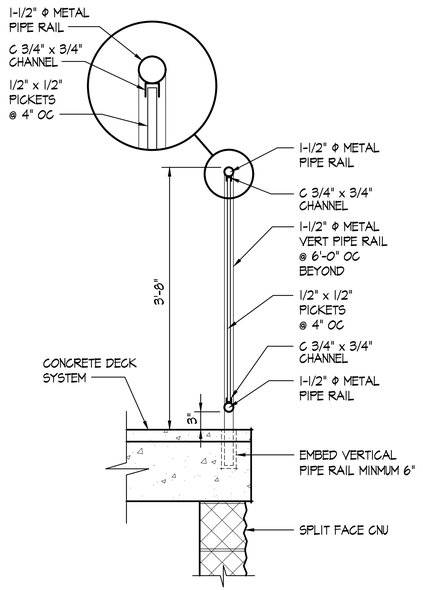
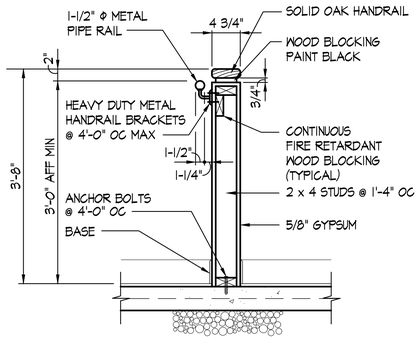
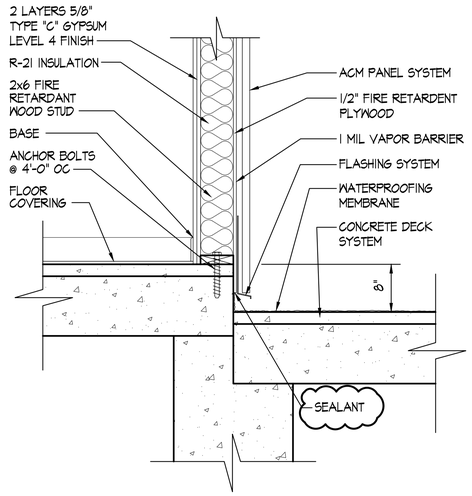


SECTION
SCALE 1" = 1'-0"
1 | A1. | A4.11



SECTION
SCALE 1" = 1'-0"
2 | A1.2 | A4.11



SECTION
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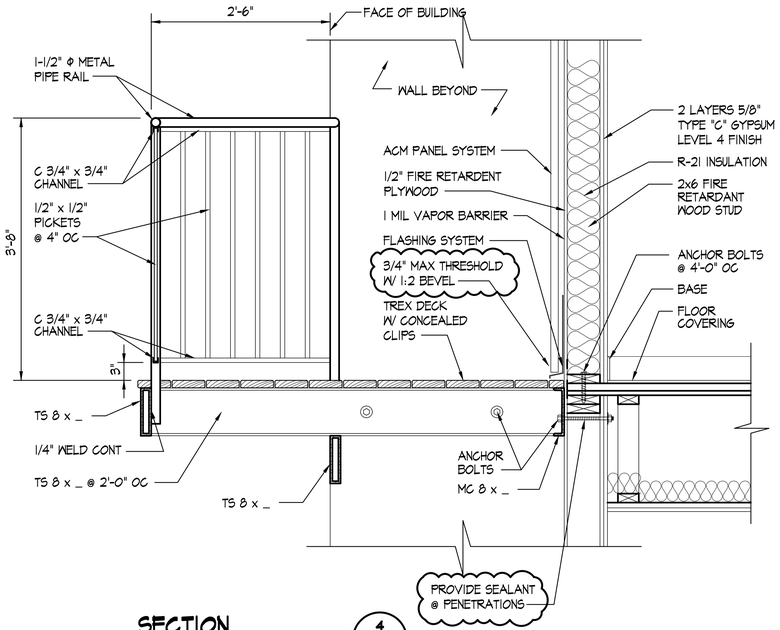
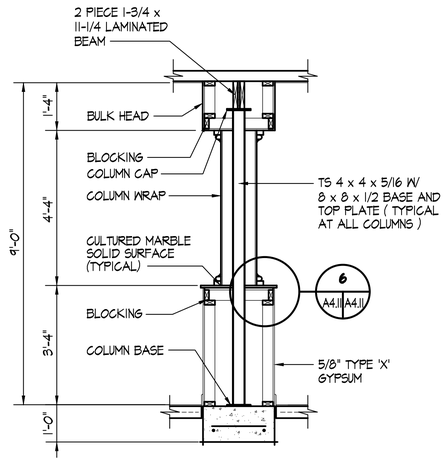
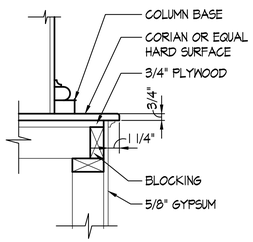
3 | A1. | A4.11



SECTION
SCALE 1" = 1'-0"
4 | A1. | A4.11

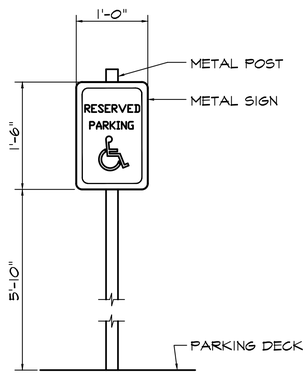


SECTION
SCALE 1/2" = 1'-0"
5 | A1. | A4.11

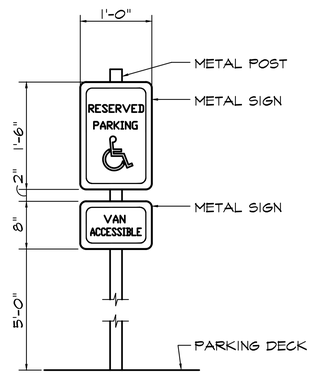


SECTION
SCALE 1-1/2" = 1'-0"
6 | A4.11 | A4.11

1

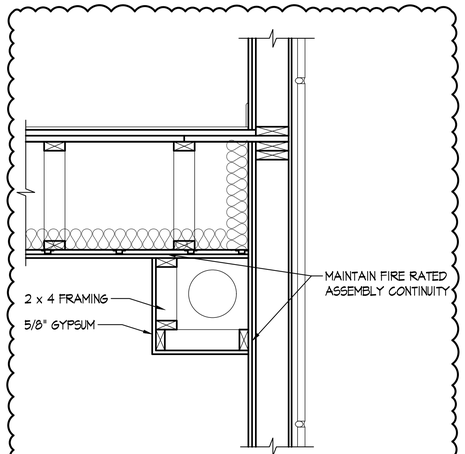


SECTION
SCALE 1" = 1'-0"
7 | A1.1 | A4.11



SECTION
SCALE 1" = 1'-0"
8 | A1.1 | A4.11

3



TYPICAL SECTION @ BULKHEAD
SCALE 1" = 1'-0"
9 | A1. | A4.11

REVISION DATE
1 - 6 JUL 2021
2 - 8 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025

LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
26 SEP 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A4.11

JONES & JONES ASSOCIATES / ARCHITECTS PC

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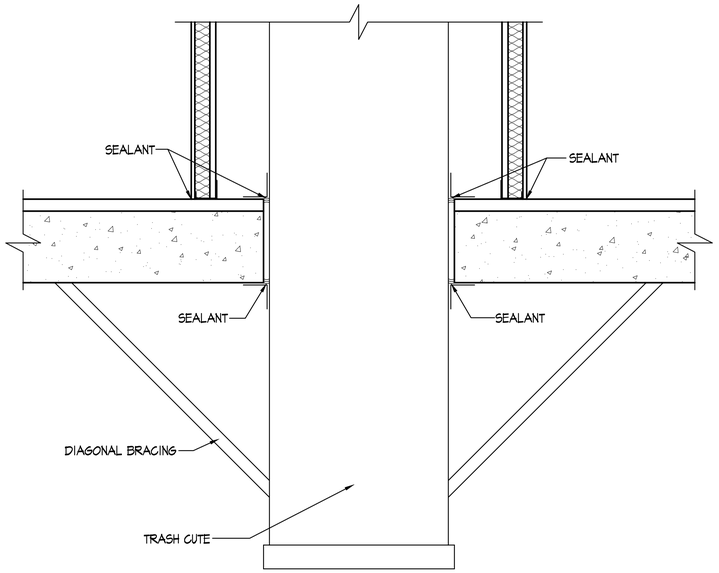
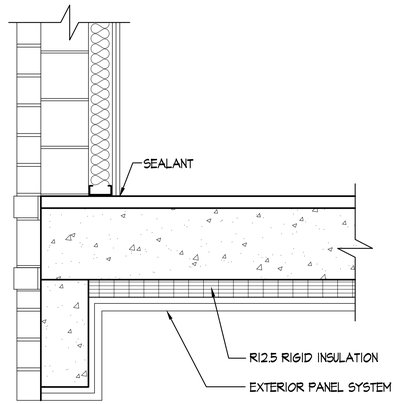
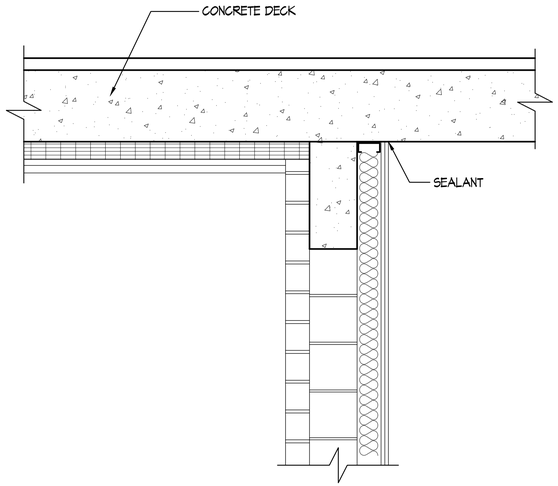
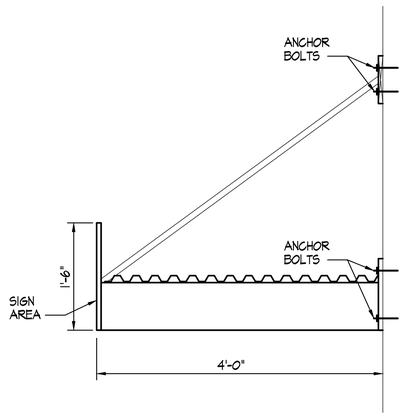


SECTION 1
SCALE 1/2" = 1'-0"



SECTION 2
SCALE 1/2" = 1'-0"





*ALL STRUCTURAL DESIGN PARAMETERS AS PER MANUFACTURER

PREFABRICATED METAL AWNING
SCALE 1" = 1'-0"

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REVISION DATE
1 - 6 JUL 2021
2 - 8 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025
7 - 31 OCT 2025

LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A4.12

JONES & JONES ASSOCIATES / ARCHITECTS PC

DOOR SCHEDULE

MARK	DOOR SIZE	TYPE	FRAME DETAILS HEAD	JAMB	SILL	HDW SET NO	REMARKS
101	3-0 x 6-8 x 1 3/4	D	1	2			
102	3-0 x 6-8 x 1 3/4	F	5	6		6	45 MINUTE FIRE RATING
103	OMIT						
104	OMIT						
105	3-0 x 6-8 x 1 3/4	H	9	10		5	
106	3-0 x 6-8 x 1 3/4	H	9	10		5	
107	3-0 x 6-8 x 1 3/4	H	9	10		6	
108	PAIR 3-0 x 6-8 x 1 3/4	K	9	10		8	
109	3-0 x 6-8 x 1 3/4	D	1	2		1	
110	PAIR 3-0 x 6-8 x 1 3/4	A	1	2		3	
111	PAIR 3-0 x 6-8 x 1 3/4	A	9	10		3	
112	PAIR 3-0 x 6-8 x 1 3/4	A	13			15	SLIDING DOUBLE DOOR
113	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
114	3-0 x 6-8 x 1 3/4	D	1	2		1	
115	PAIR 3-0 x 6-8 x 1 3/4	A	9	10		8	
116	PAIR 3-0 x 6-8 x 1 3/4	O	3	4		8	1 1/2 HOUR FIRE RATING
117	3-0 x 6-8 x 1 3/4	H	9	10		5	
118	3-0 x 6-8 x 1 3/4	D	1	2		1	
119	OMIT						
120	3-0 x 6-8 x 1 3/4	H	9	10		5	
121	3-0 x 6-8 x 1 3/4	H	9	10		5	
122	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
123	3-0 x 6-8 x 1 3/4	H	9	10		5	
124	3-0 x 6-8 x 1 3/4	E	3	4		5	1 1/2 HOUR FIRE RATING
125	3-0 x 6-8 x 1 3/4	D	1	2		1	
126	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
127	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
128	3-0 x 6-8 x 1 3/4	D	1	2		1	
129	3-0 x 6-8 x 1 3/4	D	1	2		1	
130	10-0 x 10-0 x 1 3/4	N					ROLL-UP DOOR
131	10-0 x 10-0 x 1 3/4	N					ROLL-UP DOOR
132	4-0 x 6-8 x 1 3/4	L	1	2		2	
133	3-0 x 6-8 x 1 3/4	D	1	2		1	
134	4-0 x 6-8 x 1 3/4	E	3	4		18	1 1/2 HOUR FIRE RATING
135	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
136	3-0 x 6-8 x 1 3/4	D	1	2		1	
137	3-0 x 6-8 x 1 3/4	P	3	4		7	1 1/2 HOUR FIRE RATING
138	3-0 x 6-8 x 1 3/4	P	3	4		7	1 1/2 HOUR FIRE RATING
139	10-0 x 10-0 x 1 3/4	N					ROLL-UP DOOR
140	10-0 x 10-0 x 1 3/4	N					ROLL-UP DOOR
141	PAIR 3-0 x 6-8 x 1 3/4	I	3	4		9	1 1/2 HOUR FIRE RATING
142	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
143	3-0 x 6-8 x 1 3/4	D	1	2		1	
144	10-0 x 10-0 x 1 3/4	N					ROLL-UP DOOR
145	PAIR 3-0 x 6-8 x 1 3/4	I	3	4		9	1 1/2 HOUR FIRE RATING
146	3-0 x 6-8 x 1 3/4	A	1	2		3	
147	PAIR 3-0 x 6-8 x 1 3/4	E	3	4		8	1 1/2 HOUR FIRE RATING
201	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
202	3-0 x 6-8 x 1 3/4	F	5	6		6	45 MINUTE FIRE RATING
203	PAIR 3-0 x 6-8 x 1 3/4	A	9	10		8	
204	PAIR 3-0 x 6-8 x 1 3/4	O	3	4		8	1 1/2 HOUR FIRE RATING
205	3-0 x 6-8 x 1 3/4	P	3	4		5	1 1/2 HOUR FIRE RATING
206	3-0 x 6-8 x 1 3/4	P	3	4		5	1 1/2 HOUR FIRE RATING
207	3-0 x 6-8 x 1 3/4	E	3	4		5	1 1/2 HOUR FIRE RATING
208	3-0 x 6-8 x 1 3/4	E	3	4		5	1 1/2 HOUR FIRE RATING
209	PAIR 3-0 x 6-8 x 1 3/4	A	1	2		3	
210	3-0 x 6-8 x 1 3/4	D	1	2		1	
211	3-0 x 6-8 x 1 3/4	D	1	2		1	
212	3-0 x 6-8 x 1 3/4	E	3	4		5	1 1/2 HOUR FIRE RATING
213	3-0 x 6-8 x 1 3/4	E	3	4		5	1 1/2 HOUR FIRE RATING
214	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
215	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
216	PAIR 3-0 x 6-8 x 1 3/4	I	3	4		9	1 1/2 HOUR FIRE RATING
217	3-0 x 6-8 x 1 3/4	P	3	4		7	1 1/2 HOUR FIRE RATING
218	3-0 x 6-8 x 1 3/4	P	3	4		7	1 1/2 HOUR FIRE RATING
219	3-0 x 6-8 x 1 3/4	E	3	4		5	1 1/2 HOUR FIRE RATING
220	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
221	3-0 x 6-8 x 1 3/4	E	3	4		6	1 1/2 HOUR FIRE RATING
301	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
302	3-0 x 6-8 x 1 3/4	F	5	6		6	45 MINUTE FIRE RATING
303	PAIR 3-0 x 6-8 x 1 3/4	S	14	15		8	3 HOUR FIRE RATING
304	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
305	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
306	3-0 x 6-8 x 1 3/4	D	1	2		1	
307	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
308	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
309	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
310	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
311	4-10 x 6-8 x 1 3/4	D	13			14	SLIDING DOOR
312	3-0 x 6-8 x 1 3/4	G	7	8		7	20 MINUTE FIRE RATING
313	PAIR 6-0 x 6-8 x 1 3/4	A	1	2			SLIDING DOOR
314	3-0 x 6-8 x 1 3/4	D	1	2		1	
315	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
316	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
317	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
318	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
319	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
320	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
321	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
322	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
323	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
324	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
325	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
326	3-0 x 6-8 x 1 3/4	D	1	2		1	
327	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
328	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
329	3-0 x 6-8 x 1 3/4	G	7	8		6	20 MINUTE FIRE RATING
330	3-0 x 6-8 x 1 3/4	D	1	2		1	
331	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
401	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
402	3-0 x 6-8 x 1 3/4	F	5	6		6	45 MINUTE FIRE RATING
403	PAIR 3-0 x 6-8 x 1 3/4	S	14	15		8	3 HOUR FIRE RATING
404	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
405	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
406	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
407	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
408	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
409	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
410	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
411	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
412	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
413	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
414	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
415	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING

DOOR SCHEDULE

MARK	DOOR SIZE	TYPE	FRAME DETAILS HEAD	JAMB	SILL	HDW SET NO	REMARKS
416	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
417	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
418	3-0 x 6-8 x 1 3/4	G	7	8		6	20 MINUTE FIRE RATING
419	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
501	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
502	3-0 x 6-8 x 1 3/4	F	5	6		6	45 MINUTE FIRE RATING
503	PAIR 3-0 x 6-8 x 1 3/4	S	14	15		8	3 HOUR FIRE RATING
504	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
505	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
506	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
507	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
508	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
509	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
510	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
511	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
512	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
513	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
514	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
515	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
516	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
517	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
518	3-0 x 6-8 x 1 3/4	G	7	8		6	20 MINUTE FIRE RATING
519	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
601	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
602	3-0 x 6-8 x 1 3/4	F	5	6		6	45 MINUTE FIRE RATING
603	PAIR 3-0 x 6-8 x 1 3/4	S	14	15		8	3 HOUR FIRE RATING
604	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
605	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
606	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
607	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
608	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
609	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
610	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
611	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
612	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
613	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
614	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
615	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
616	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
617	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
618	3-0 x 6-8 x 1 3/4	G	7	8		6	20 MINUTE FIRE RATING
619	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
701	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
702	3-0 x 6-8 x 1 3/4	F	5	6		6	45 MINUTE FIRE RATING
703	PAIR 3-0 x 6-8 x 1 3/4	S	14	15		8	3 HOUR FIRE RATING
704	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
705	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
706	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
707	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
708	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
709	PAIR 3-0 x 6-8 x 1 3/4	J	5	6		9	45 MINUTE FIRE RATING
710	PAIR 3-0 x 6-8 x 1 3/4	K	9	10		9	
711	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
712	3-0 x 6-8 x 1 3/4	G	7	8		5	20 MINUTE FIRE RATING
713	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
714	PAIR 3-0 x 6-8 x 1 3/4	Q	9	10		9	
715	PAIR 3-0 x 6-8 x 1 3/4	I	5	6		9	45 MINUTE FIRE RATING
716	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
717	3-0 x 6-8 x 1 3/4	E	3	4		7	1 1/2 HOUR FIRE RATING
718	3-0 x 6-8 x 1 3/4	G	7	8		6	20 MINUTE FIRE RATING
719	PAIR 3-0 x 6-8 x 1 3/4	B	7	8		8	20 MINUTE FIRE RATING
A01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
A02	3-0 x 6-8 x 1 3/4	A	1	2			
A03	3-0 x 6-8 x 1 3/4	H	9	10		11	
A04	PAIR 2-6 x 6-8 x 1 3/4	K	9	10		13	
A05	3-0 x 6-8 x 1 3/4	H	9	10		11	
A06	3-0 x 6-8 x 1 3/4	H	9	10		12	
A07	2-8 x 6-8 x 1 3/4	H	9	10		12	
A08	2-0 x 6-8 x 1 3/4	H	9	10		16	
B01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
B02	3-0 x 6-8 x 1 3/4	A	1	2			
B03	3-0 x 6-8 x 1 3/4	H	9	10		11	
B04	3-0 x 6-8 x 1 3/4	H	9	10		12	
B05	3-0 x 6-8 x 1 3/4	H	9	10		11	
B06	3-0 x 6-8 x 1 3/4	H	9	10		11	
B07	3-0 x 6-8 x 1 3/4	H	9	10		12	
B08	3-0 x 6-8 x 1 3/4	H	9	10		12	
B09	2-0 x 6-8 x 1 3/4	H	9	10		16	
C01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
C02	3-0 x 6-8 x 1 3/4	A	1	2			
C03	3-0 x 6-8 x 1 3/4	H	9	10		11	
C04	3-0 x 6-8 x 1 3/4	H	9	10		12	
C05	3-0 x 6-8 x 1 3/4	H	9	10		11	
C06	3-0 x 6-8 x 1 3/4	H	9	10		11	
C07	3-0 x 6-8 x 1 3/4	H	9	10		12	
C08	3-0 x 6-8 x 1 3/4	H	9	10		12	
C09	2-0 x 6-8 x 1 3/4	H	9	10		16	
D01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
D02	3-0 x 6-8 x 1 3/4	A	1	2			
D03	3-0 x 6-8 x 1 3/4	H	9	10		11	
D04	3-0 x 6-8 x 1 3/4	H	9	10		12	
D05	3-0 x 6-8 x 1 3/4	H	9	10		11	
D06	3-0 x 6-8 x 1 3/4	H	9	10		11	
D07	3-0 x 6-8 x 1 3/4	H	9	10		12	
D08	3-0 x 6-8 x 1 3/4	H	9	10		12	
D09	2-0 x 6-8 x 1 3/4	H	9	10		16	
E01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
E02	3-0 x 6-8 x 1 3/4	A	1	2			
E03	3-0 x 6-8 x 1 3/4	H	9	10		11	
E04	3-0 x 6-8 x 1 3/4	H	9	10		11	
E05	3-0 x 6-8 x 1 3/4	H	9	10		12	
E06	3-0 x 6-8 x 1 3/4	H	9	10		11	
E07	3-0 x 6-8 x 1 3/4	H	9	10		11	
E08	3-0 x 6-8 x 1 3/4	H	9	10		12	
E09	3-0 x 6-8 x 1 3/4	H	9	10		12	
E10	2-0 x 6-8 x 1 3/4	H	9	10		16	
F01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
F02	3-0 x 6-8 x 1 3/4	A	1	2			
F03	3-0 x 6-8 x 1 3/4	H	9	10		11	
F04	3-0 x 6-8 x 1 3/4	H	9	10		12	
F05	3-0 x 6-8 x 1 3/4	H	9	10		11	
F06	3-0 x 6-8 x 1 3/4	H	9	10		11	
F07	3-0 x 6-8 x 1 3/4	H	9	10		12	
F08	3-0 x 6-8 x 1 3/4	H	9	10		12	

DOOR SCHEDULE

MARK	DOOR SIZE	TYPE	FRAME DETAILS HEAD	JAMB	SILL	HDW SET NO	REMARKS
F09	2-0 x 6-8 x 1 3/4	H	9	10		16	
G01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
G02	3-0 x 6-8 x 1 3/4	A	1	2			
G03	3-0 x 6-8 x 1 3/4	H	9	10		11	
G04	3-0 x 6-8 x 1 3/4	H	11			14	SLIDING DOOR
G05	3-0 x 6-8 x 1 3/4	H	9	10		11	
G06	3-0 x 6-8 x 1 3/4	H	9	10		11	
G07	3-0 x 6-8 x 1 3/4	H	9	10		12	
G08	3-0 x 6-8 x 1 3/4	H	9	10		12	
G09	3-0 x 6-8 x 1 3/4	H	9	10		11	
G10	3-0 x 6-8 x 1 3/4	H	11			14	SLIDING DOOR
G11	3-0 x 6-8 x 1 3/4	H	9	10		11	
G12	2-0 x 6-8 x 1 3/4	H	9	10		16	
H01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
H02	2-6 x 6-8 x 1 3/4	H	9	10		12	
H03	3-0 x 6-8 x 1 3/4	H	9	10		12	
H04	3-0 x 6-8 x 1 3/4	H	9	10		11	
H05	3-0 x 6-8 x 1 3/4	H	9	10		11	
H06	3-0 x 6-8 x 1 3/4	H	9	10		11	
H07	3-0 x 6-8 x 1 3/4	H	9	10		12	
H08	3-0 x 6-8 x 1 3/4	H	9	10		11	
H09	3-0 x 6-8 x 1 3/4	H	9	10		12	
H10	3-0 x 6-8 x 1 3/4	A	1	2			
H11	1-6 x 6-8 x 1 3/4	H	9	10		12	
H12	2-0 x 6-8 x 1 3/4	H	9	10		16	
J01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
J02	2-8 x 6-8 x 1 3/4	H	9	10		12	
J03	3-0 x 6-8 x 1 3/4	H	9	10		12	
J04	3-0 x 6-8 x 1 3/4	H	9	10		11	
J05	3-0 x 6-8 x 1 3/4	H	9	10		11	
J06	3-0 x 6-8 x 1 3/4	H	9	10		11	
J07	3-0 x 6-8 x 1 3/4	H	9	10		12	
J08	3-0 x 6-8 x 1 3/4	A	1	2			
J09	2-0 x 6-8 x 1 3/4	H	9	10		16	
K01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
K02	3-0 x 6-8 x 1 3/4	A	1	2			
K03	3-0 x 6-8 x 1 3/4	H	9	10		11	
K04	3-0 x 6-8 x 1 3/4	H	9	10		12	
K05	3-0 x 6-8 x 1 3/4	H	9	10		12	
K06	3-0 x 6-8 x 1 3/4	H	9	10		11	
K07	3-0 x 6-8 x 1 3/4	H	9	10		12	
K08	2-0 x 6-8 x 1 3/4	H	9	10		16	
L01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
L02	3-0 x 6-8 x 1 3/4	A	1	2			
L03	3-0 x 6-8 x 1 3/4	H	9	10		11	
L04	3-0 x 6-8 x 1 3/4	H	11			14	SLIDING DOOR
L05	2-6 x 6-8 x 1 3/4	H	9	10		12	
L06	3-0 x 6-8 x 1 3/4	H	9	10		11	
L07	3-0 x 6-8 x 1 3/4	H	9	10		12	
L08	3-0 x 6-8 x 1 3/4	H	9	10		11	
L09	3-0 x 6-8 x 1 3/4	H	11			14	SLIDING DOOR
L10	3-0 x 6-8 x 1 3/4	H	9	10		11	
L11	2-0 x 6-8 x 1 3/4	H	9	10		16	
M01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
M02	2-8 x 6-8 x 1 3/4	H	9	10		12	
M03	3-0 x 6-8 x 1 3/4	H	9	10		12	
M04	3-0 x 6-8 x 1 3/4	H	9	10		11	
M05	PAIR 2-6 x 6-8 x 1 3/4	K	9	10		13	
M06	3-0 x 6-8 x 1 3/4	A	1	2			
M07	3-0 x 6-8 x 1 3/4	H	9	10		12	
M08	2-0 x 6-8 x 1 3/4	H	9	10		16	
N01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
N02	2-8 x 6-8 x 1 3/4	H	9	10		12	
N03	3-0 x 6-8 x 1 3/4	H	9	10		12	
N04	3-0 x 6-8 x 1 3/4	H	9	10		11	
N05	3-0 x 6-8 x 1 3/4	H	9	10		11	
N06	3-0 x 6-8 x 1 3/4	H	9	10		12	
N07	3-0 x 6-8 x 1 3/4	A	1	2			
N08	2-0 x 6-8 x 1 3/4	H	9	10		16	
O01	3-0 x 6-8 x 1 3/4	G	7	8		17	20 MINUTE FIRE RATING
O02	3-0 x 6-8 x 1 3/4	H	9	10		12	
O03	3-0 x 6-8 x 1 3/4	H	9	10		12	
O04	3-0 x 6-8 x 1 3/4	H	9	10		11	
O05	3-0 x 6-8 x 1 3/4	H	9	10		12	
O06	3-0 x 6-8 x 1 3/4	A	1	2			
O07	2-0 x 6-8 x 1 3/4	H	9	10		16	

FINISHING HARDWARE

Set Number 1
- 1 Exit Device - Sargent - 8500 - KL - BSP
- 3 Hinges - Hager - BB850 BSP 4 1/2 x 4 1/2
- 1 Threshold - National Guard - 421 DKB
- 1 Closer - Sargent - 1430 Parallel Arm - BSP
- 1 Bumper - Ives - 408 1/2 - BSP
- 4 Silencer
- 1 Weather Stripping - National Guard - 1370 KB
- 1 Door Sweep - National Guard - 200DKB

Set Number 2
- 1 Exit Device - Sargent - 8500 - KL - BSP
- 4 Hinges - Hager - BB850 BSP 4 1/2 x 4 1/2
- 1 Threshold - National Guard - 421 DKB
- 1 Closer - Sargent - 1430 Parallel Arm - BSP
- 1 Bumper - Ives - 408 1/2 - BSP
- 4 Silencer
- 1 Weather Stripping - National Guard - 1370 KB
- 1 Door Sweep - National Guard - 200DKB

Set Number 3
- 2 Exit Device - Sargent - 8700 - KL - BSP
- 6 Hinges - Hager - BB850 BSP 1/2 x 4 1/2
- 1 Threshold - National Guard - 421 DKB
- 2 Closer - Sargent - 1430 Parallel Arm - BSP
- 2 Bumper - Ives - 408 1/2 - BSP
- 1 Weather Stripping - National Guard - 1370 KB
- 2 Door Sweep - National Guard - 200DKB
- 8 Silencer

Set Number 4
- 1 Lockset

FINISH LEGEND

CPT-1 CARPET TILE
- MFR: INTERFACE
- COLLECTION: TBD
- STYLE: TBD
- COLOR: TBD

CPT-2 CARPET TILE - ACCENT
- MFR: INTERFACE
- COLLECTION: TBD
- STYLE: TBD
- COLOR: TBD

CPT-3 CARPET
- MFR: SHAW
- COLLECTION: GENESIS
- STYLE: TBD
- COLOR: TBD

LVT-1 LUXURY VINYL TILE WOOD PLANK FLOORING
- MFR: INTERFACE
- COLLECTION: ARTISTRY PLANK
- COLOR: TBD

RFC-1 RESILIENT FLOOR COVERING
- MFR: TBD
- COLLECTION: TBD
- COLOR: TBD

VCT-1 VINYL COMPOSITE TILE
- MFR: TBD
- COLLECTION: TBD
- COLOR: TBD

CT-1 CERAMIC TILE WALL TILE
- MFR: DALTILE
- COLLECTION: SALERNO
- COLOR: TBD
- SIZE: 10"X14"
- INSTALLATION: FLOOR TO CEILING
- GROUT: MATCH CERAMIC TILE WITH SEALANT

CT-2 CERAMIC TILE SHOWER FLOOR
- MFR: DALTILE
- COLLECTION: SALERNO
- COLOR: TBD
- SIZE: 12"X12" SHEET
- GROUT: COLOR TBD

CT-3 CERAMIC TILE COVE BASE
- MFR: DALTILE
- COLLECTION: SALERNO S-36C4TB
- COLOR: TBD

CT-4 CERAMIC TILE FLOOR
- MFR: DALTILE
- COLLECTION: SALERNO
- COLOR: TBD

ACT-1 ACOUSTICAL CEILING TILE
- MFR: ARMSTRONG CEILING TILE
- TYPE: FINE FISSURED

PNT-1 PAINT
- MFR: SHERWIN WILLIAMS
- NOTE: SEE SPEC FOR INFORMATION

WC-1 WALL COVERING
- MFR: TBD
- COLLECTION: TBD
- COLOR: TBD

VB-1 VINYL BASE
- MFR: JOHNSONITE
- COLOR: TBD
- SIZE: 4"

WB-1 WOOD BASE
- MFR: TBD
- COLOR: TBD
- SIZE: TBD

FINISH SCHEDULE

MARK	SPACE	FLOOR: CPT-1	CPT-2	CPT-3	LVT-1	RFC-1	VCT-1	CT-2	CT-4	CONCRETE	WALL: MATERIAL GYPSUM	CMU	CONCRETE	FINISH PNT-1	CT-1	WC-1	BASE: MATERIAL CT-3	VB-1	WB-1	CEILING: MATERIAL GYPSUM	ACT-1	CONCRETE	HEIGHT	REMARKS
101	OMIT																							
102	FIREPLACE LOUNGE							●			●		●	●		●			●			●		
103	TOILET							●			●		●	●		●			●			●		
104	TOILET							●			●		●	●		●			●			●		
105	JANITOR					●					●		●			●			●			●		
106	MEDIA ROOM							●			●		●	●		●			●			●		
107	LOUNGE / PARTY ROOM							●			●		●	●		●			●			●		
108	LOBBY							●			●		●	●		●			●			●		
109	OFFICE							●			●		●	●		●			●			●		
110	CONFERENCE							●			●		●	●		●			●			●		
111	LOUNGE							●			●		●	●		●			●			●		
112	ELEVATOR LOBBY							●			●		●	●		●			●			●		
113	TOILET							●			●		●	●		●			●			●		
114	MAIL ROOM							●			●		●	●		●			●			●		
115	FITNESS ROOM					●					●		●	●		●			●			●		
116	TOILET							●			●		●	●		●			●			●		
117	TOILET							●			●		●	●		●			●			●		
118	RETAIL								●		●		●			●			●			●		
119	RESTAURANT								●		●		●			●			●			●		
120	PARKING GARAGE								●		●		●			●			●			●		
121	STORAGE								●		●		●			●			●			●		
122	ELECTRICAL								●		●		●			●			●			●		
123	ELEVATOR LOBBY							●			●		●	●		●			●			●		
124	FIRES SUPPRESSION								●		●		●			●			●			●		
125	TRASH								●		●		●			●			●			●		
126	FIRE COMMAND					●					●		●	●		●			●			●		
127	STORAGE								●		●		●			●			●			●		
201	ELEVATOR LOBBY							●			●		●	●		●			●			●		
202	MECHANICAL					●					●		●			●			●			●		
203	PARKING DECK								●			●	●			●			●			●		
204	BIKE REPAIR							●				●	●			●			●			●		
205	DOG WASH							●				●	●			●			●			●		
206	STORAGE								●			●	●			●			●			●		
207	RESTAURANT								●		●		●			●			●			●		
208	STORAGE								●			●	●			●			●			●		
209	POOL EQUIPMENT								●			●	●			●			●			●		
210	ELEVATOR LOBBY							●			●		●	●		●			●			●		
211	STORAGE								●		●		●			●			●			●		
212	MAINTENANCE								●			●	●			●			●			●		
301	ELEVATOR LOBBY							●			●		●	●		●			●			●		
302	MECHANICAL ROOM					●					●		●			●			●			●		
303	CORRIDOR	●	●					●			●		●	●		●			●			●		
315	CORRIDOR	●	●					●			●		●	●		●			●			●		
318	STORAGE					●					●		●			●			●			●		
320	SITTING AREA	●	●								●		●	●		●			●			●		
321	MECHANICAL					●					●		●			●			●			●		
325	COMMUNITY ROOM							●			●		●	●		●			●			●		
326	CORRIDOR	●	●								●		●	●		●			●			●		
327	COMMUNITY ROOM							●			●		●	●		●			●			●		
328	SPA							●			●	●			●				●			●		
329	SPA							●			●	●			●				●			●		
335	MECHANICAL					●					●		●			●			●			●		
336	SITTING AREA	●	●								●		●	●		●			●			●		
337	STORAGE					●					●		●			●			●			●		
341	CORRIDOR	●	●					●			●		●	●		●			●			●		
345	STORAGE					●					●		●			●			●			●		
346	SITTING AREA	●	●								●		●	●		●			●			●		
347	MECHANICAL					●					●		●			●			●			●		
351	MECHANICAL					●					●		●			●			●			●		
352	ELEVATOR LOBBY							●			●		●	●		●			●			●		
353	CORRIDOR	●	●					●			●		●	●		●			●			●		
378	TRASH					●					●		●			●			●			●		
342	SAUNA																							FINISH AS PER MANUFACTURER
401	ELEVATOR LOBBY							●			●		●	●		●			●			●		
402	MECHANICAL ROOM					●					●		●			●			●			●		
403	CORRIDOR	●	●					●			●		●	●		●			●			●		
415	CORRIDOR	●	●					●			●		●	●		●			●			●		
418	STORAGE					●					●		●			●			●			●		
420	SITTING AREA	●	●								●		●	●		●			●			●		
421	MECH					●					●		●			●			●			●		
432	MECH					●					●		●			●			●			●		
433	SITTING AREA	●	●								●		●	●		●			●			●		
434	STORAGE					●					●		●			●			●			●		
438	CORRIDOR	●	●					●			●		●	●		●			●			●		
442	STORAGE					●					●		●			●			●			●		
443	SITTING AREA	●	●								●		●	●		●			●			●		
444	MECH					●					●		●			●			●			●		
448	MECH					●					●		●			●			●			●		
449	ELEVATOR LOBBY							●			●		●	●		●			●			●		
450	CORRIDOR	●	●					●			●		●	●		●			●			●		
475	TRASH					●					●		●			●			●			●		
501	ELEVATOR LOBBY							●			●		●	●		●			●			●		
502	MECHANICAL ROOM					●					●		●			●			●			●		
503	CORRIDOR	●	●					●			●		●	●		●			●			●		
515	CORRIDOR	●	●					●			●		●	●		●			●			●		
518	STORAGE					●					●		●			●			●			●		
520	SITTING AREA	●	●								●		●	●		●			●			●		
521	MECH					●					●		●			●			●			●		
532	MECH					●					●		●			●			●			●		
533	SITTING AREA	●	●								●		●	●		●			●			●		
534	STORAGE					●					●		●			●			●			●		
538	CORRIDOR	●	●					●			●		●	●		●			●			●		
542	STORAGE					●					●		●			●			●			●		
543	SITTING AREA	●	●								●		●	●		●			●			●		
544	MECH					●					●		●			●			●			●		
548	MECH					●					●		●			●			●			●		
549	ELEVATOR LOBBY							●			●		●	●		●			●			●		
550	CORRIDOR	●	●					●			●		●	●		●			●			●		
575	TRASH					●					●		●			●			●			●		

FINISH SCHEDULE

MARK	SPACE	FLOOR: CPT-1	CPT-2	CPT-3	LVT-1	RFC-1	VCT-1	CT-2	CT-4	CONCRETE	WALL: MATERIAL GYPSUM	CMU	CONCRETE	FINISH PNT-1	CT-1	WC-1	BASE: MATERIAL CT-3	VB-1	WB-1	CEILING: MATERIAL GYPSUM	ACT-1	CONCRETE	HEIGHT	REMARKS
601	ELEVATOR LOBBY							●			●		●	●		●			●			●		
602	MECHANICAL ROOM						●				●		●			●			●			●		
603	CORRIDOR	●						●			●		●	●		●			●			●		
615	CORRIDOR	●						●			●		●	●		●			●			●		
618	STORAGE						●				●		●			●			●			●		
620	SITTING AREA	●									●		●	●		●			●			●		
621	MECH						●				●		●			●			●			●		
632	MECH						●				●		●			●			●			●		
633	SITTING AREA	●									●		●	●		●			●			●		
634	STORAGE						●				●		●			●			●			●		
638	CORRIDOR	●						●			●		●	●		●			●			●		
642	STORAGE						●				●		●			●			●			●		
643	SITTING AREA	●									●		●	●		●			●			●		
644	MECH						●				●		●			●			●			●		
648	MECH						●				●		●			●			●			●		
649	ELEVATOR LOBBY							●			●		●	●		●			●			●		
650	CORRIDOR	●						●			●		●	●		●			●			●		
675	TRASH						●				●		●			●			●			●		
701	ELEVATOR LOBBY							●			●		●	●		●			●			●		
702	MECHANICAL ROOM						●				●		●			●			●			●		
703	CORRIDOR	●						●			●		●	●		●			●			●		
715	CORRIDOR	●						●			●		●	●		●			●			●		
718	STORAGE						●				●		●			●			●			●		
720	SITTING AREA	●									●		●	●		●			●			●		
721	MECH						●				●		●			●			●			●		
732	MECH						●				●		●			●			●			●		
733	SITTING AREA	●									●		●	●		●			●			●		
734	STORAGE						●				●		●			●			●			●		
738	CORRIDOR	●						●			●		●	●		●			●			●		
742	STORAGE						●				●		●			●			●			●		
743	SITTING AREA	●									●		●	●		●			●			●		
744	MECH						●				●		●			●			●			●		
748	MECH						●				●		●			●			●			●		
749	ELEVATOR LOBBY							●			●		●	●		●			●			●		
750	CORRIDOR	●						●			●		●	●		●			●			●		
775	TRASH						●				●		●			●			●			●		

FINISH SCHEDULE - RESIDENT ROOMS

MARK	SPACE	FLOOR: CPT-1	CPT-2	CPT-3	LVT-1	RFC-1	VCT-1	CT-2	CT-4	CONCRETE	WALL: MATERIAL GYPSUM	CMU	CONCRETE	FINISH PNT-1	CT-1	WC-1	BASE: MATERIAL CT-3	VB-1	WB-1	CEILING: MATERIAL GYPSUM	ACT-1	CONCRETE	HEIGHT	REMARKS
ONE BEDROOM UNITS																								
01	KITCHEN			●							●			●	●			●		●				
02	LIVING ROOM			●							●			●				●		●				
03	BEDROOM		●								●			●		●		●		●				
04	CLOSET		●								●			●				●		●				
05	BATHROOM							●	●		●			●	●			●		●				
06	LAUNDRY ROOM			●							●			●				●		●				
TWO BEDROOM UNITS																								
01	KITCHEN			●							●			●	●			●		●				
02	LIVING ROOM			●							●			●				●		●				
03	BEDROOM		●								●			●		●		●		●				
04	CLOSET		●								●			●				●		●				
05	BATHROOM							●	●		●			●	●			●		●				
06	LAUNDRY ROOM			●							●			●				●		●				
07	BEDROOM		●								●			●		●		●		●				
08	CLOSET		●								●			●				●		●				
09	BATHROOM							●	●		●			●	●			●		●				
THREE BEDROOM UNITS																								
01	KITCHEN			●							●			●	●			●		●				
02	LIVING ROOM			●							●			●				●		●				
03	BATHROOM							●	●		●			●	●			●		●				
04	BEDROOM		●								●			●		●		●		●				
05	CLOSET		●								●			●				●		●				
06	BATHROOM							●	●		●			●	●			●		●				
07	BEDROOM		●								●			●		●		●		●				
08	CLOSET		●								●			●				●		●				
09	BEDROOM		●								●			●		●		●		●				
10	CLOSET		●								●			●				●		●				
11	LAUNDRY ROOM			●							●			●				●		●				

NOTES
1. PROVIDE 1/2" CEMENTITOUS BACKER BOARD ON ALL WALLS RECEIVING CERAMIC TILE OR FIBERGLASS REINFORCED PANELS
2. PROVIDE FIBERGLASS REINFORCED PANELS ON ALL WALLS AT SERVICE SINKS
3. ALL FINISH MATERIALS SHALL MEET OR EXCEED THE REQUIREMENTS FOR CLASS B FINISHES (FLAME SPREAD 26-75, SMOKE DEVELOPMENR 0-450)
4. ALL GWB IN TOILET ROOMS, BATHS, AND LAUNDRY ROOMS SHALL BE MOISTURE RESISTANT.
5. ALL CERAMIC TILE SHALL BE THIN SET.
6. ALL CERAMIC TILE SHOWERS SHALL HAVE COMPOSITE PANS.
7. ALL BASE SHALL HAVE FACTORY MADE CORNERS.
8. COORDINATE ALL FINISHES AND DESIGN ELEMENTS WITH PLANS BY KOO LLC. IN THE EVENT OF CONFLICT, THE MORE RESTRICTIVE SHALL APPLY. (1)

REVISION DATE
1 - 6 JUL 2021
2 - 8 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025

LICENSED ARCHITECT
RICHARD L. JONES, JR.
001-025003
STATE OF ILLINOIS
26 SEP 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
18 JUN 2021

A5.2

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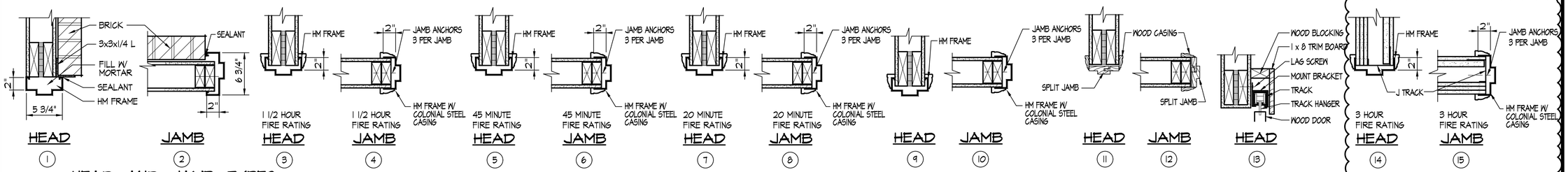
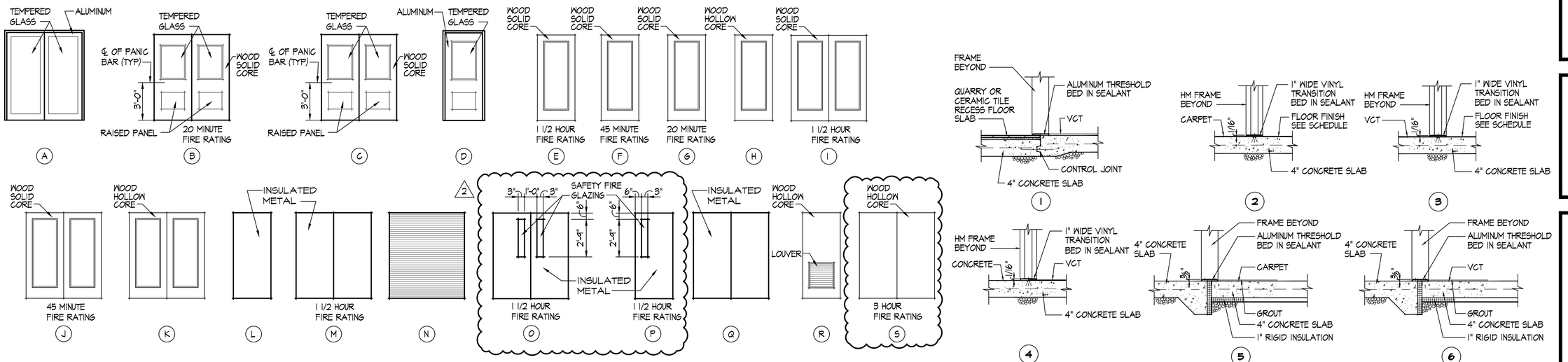


HEAD AND JAMB TYPES

SCALE 1 1/2" = 1'-0"



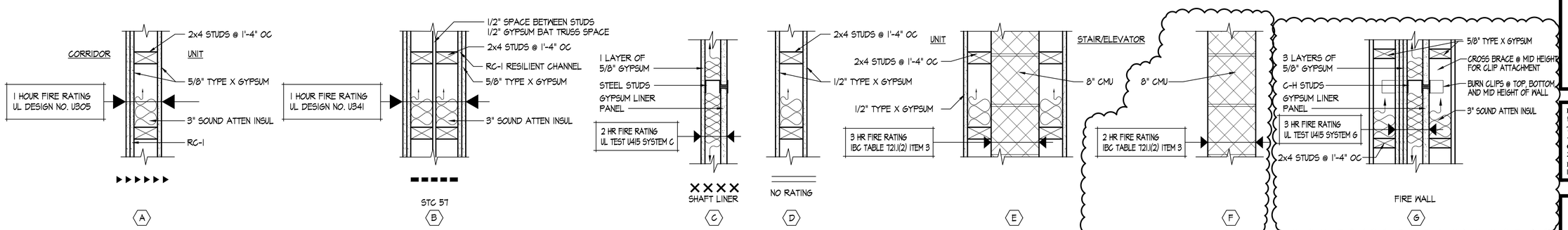
DOOR TYPES

SCALE 1/4" = 1'-0"

1 NOTE
ALL GLAZING IN DOORS SHALL BE TEMPERED SAFETY GLAZING.

SILL TYPES

SCALE 1 1/2" = 1'-0"



PARTITION TYPES

SCALE 1 1/2" = 1'-0"

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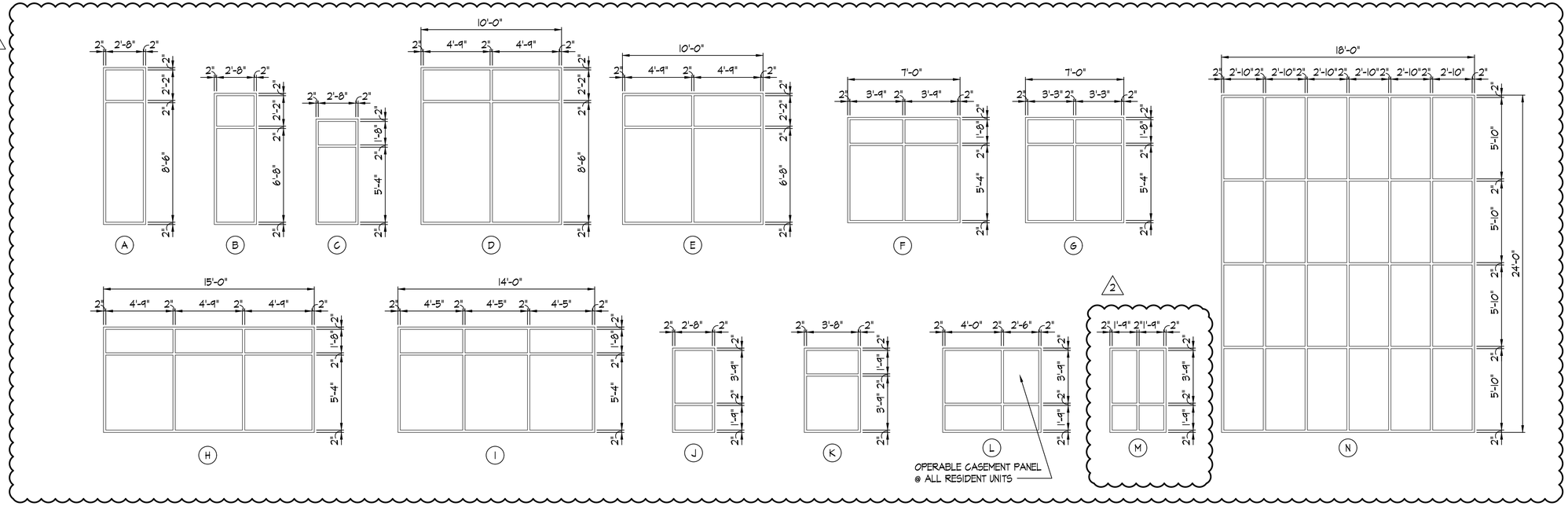

WINDOW TYPES

SCALE 1/4" = 1'-0"

NOTES

1. RESTRICT VERTICAL WINDOW OPERATION TO 6" OPENING IN RESIDENT ROOMS AND PROVIDE SCREEN OF NOT LESS THAN 16 MESH PER INCH
2. THE BOTTOM OF ALL GLAZING SHALL BE 18" AFF MINIMUM
3. PROVIDE TEMPERED SAFETY GLAZING IN THE FOLLOWING LOCATIONS:
   - WITHIN 24" OF ANY DOOR
   - AT ALL STAIRWAY LANDINGS
4. ALL WINDOWS AT FLOORS 3 THRU 7 SHALL BE PHIUS APPROVED

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VILLA PARK, ILLINOIS

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A5.4

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VENTILATION SYMBOLS

SYMBOL	DESCRIPTION
	NEW DUCTWORK
	DUCT SECTION - SUPPLY UP
	DUCT SECTION - SUPPLY DOWN
	DUCT SECTION - RETURN UP
	DUCT SECTION - RETURN DOWN
	DUCT SECTION - EXHAUST UP
	DUCT SECTION - EXHAUST DOWN
	DUCT SECTION - OUTSIDE AIR UP
	DUCT SECTION - OUTSIDE AIR DOWN
	EXISTING DUCT
	DUCT/EXISTING WORK TO BE REMOVED
R	INCLINED RISE WITH RESPECT TO AIRFLOW
D	INCLINED DROP WITH RESPECT TO AIRFLOW
	FLEXIBLE CONNECTION TO EQUIPMENT
	LOUVER & SCREEN WXD GROSS OPENING
	FLEXIBLE DUCT
	VOLUME DAMPER WITH QUADRANT LOCKING
M	MOTORIZED DAMPER
	SPLITTER DAMPER
BDD	BACKDRAFT DAMPER (GRAVITY)
FD	FIRE DAMPER, SLEEVE & ACCESS DOOR
	AIR EXTRACTING VANES
	TURNING VANES, DOUBLE THICKNESS AIRFOIL TYPE
SYSTEM RISER NO.	RISER MARK
T	THERMOSTAT (G) W/ GUARD
S	SENSOR
H	HUMIDISTAT
	CONNECTION TO EXISTING PIPING, DUCTWORK, ETC.
700-R 20x12	EXHAUST OR RETURN AIR REGISTER
800-S 20x12	RECTANGULAR CEILING SUPPLY DIFFUSER
800-S 20X12	ROUND CEILING SUPPLY DIFFUSER
800-S 20X12	SIDE WALL, SUPPLY REGISTER W/ VOLUME DAMPER
24x12 DG	DOOR GRILLE W/ BUILT-IN FIRE DAMPER IF LOCATED ON A FIRE DOOR
	LINEAR DIFFUSER W/ BOOT. NO VOLUME DAMPER IN BOOT
	AIR VALVE
	TERMINAL UNIT, VARIABLE VOLUME INTEGRAL DIFFUSER
UC	DOOR UNDERCUT MINIMUM 1"
	ROOF MOUNTED POWER OR GRAVITY VENTILATOR
	ROOF MOUNTED AIR INTAKE
	ELECTRIC DUCT HEATER
TAG SIZE CFM	DIFFUSER / REGISTER TAG

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	PRESSURE GAGE & COCK
	STRAINER
	STRAINER WITH BLOW OFF VALVE
	THERMOMETER
P/T	PRESSURE/TEMPERATURE SENSOR
	CAP
	UNION
	ANCHOR W/ ALIGNMENT GUIDES
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	TRIPLE DUTY VALVE
	CHECK VALVE
	BALANCING VALVE
	GLOBE VALVE
	GATE VALVE
	BUTTERFLY WHEN VALVE IS 4" OR MORE BALL VALVE WHEN VALUE IS 3" OR LESS
M	VALVE WITH MEMORY STOP
	GAS COCK
	CONTROL VALVE 2 WAY
	CONTROL VALVE 3 WAY
	PRESSURE/TEMPERATURE TAP
	CIRCUIT SETTER
BF	CODE BACKFLOW PREVENTER
	UNIT HEATER VERTICAL
	UNIT HEATER HORIZONTAL
	PIPE DOWN
	PIPE UP
	EXISTING PIPE TO BE REMOVED
	EXISTING PIPE TO REMAIN
	NEW PIPING
	PIPING ASSEMBLY (SEE DETAIL)
V	AIR VENT
	FLOW CONTROL FITTING
FI	FLOW INDICATOR
FS	FLOW SWITCH
PS	PRESSURE SWITCH
	BASE MOUNTED PUMP (SEE DETAIL)
P	INLINE PUMP (SEE DETAIL)
	EQUIPMENT (SPECIFIED BY TAG BELOW)
XX X	EQUIPMENT TAG
SD	SMOKE DETECTOR
FSD	FIRE / SMOKE DETECTOR

SYSTEMS ABBREVIATIONS

DUCTWORK		MECHANICAL PIPING	
ABBREVIATION	**SYSTEM NAME**	**ABBREVIATION**	**SYSTEM NAME**
FLUE	BOLIER FLUE	CD	CONDENSATE DRAIN
CAI	COMBUSTION AIR INTAKE	NGLP	NATURAL GAS - LOW PRESSURE
GE	EXHAUST AIR	NGMP	NATURAL GAS MEDIUM PRESSURE
KE	KITCHEN EXHAUST		
OA	OUTSIDE AIR		
RCR	RECIRCULATION AIR		
RA	RETURN AIR		
SA	SUPPLY AIR		
TE	TOILET EXHAUST		
TRE	TRASH EXHAUST		

MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	AIR CONDITIONER
ACH	AIR CHANGES PER HOUR
ADS	AIR DIRT SEPARATOR
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AFMS	AIR FLOW MONTIORING STATION
AFU	ANNUAL FUEL EFFICIENCY RATIO
AHU	AIR HANDLER
AMP	AMPERAGE
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR
ATU	AIR TERMINAL UNIT
AUX.	AUXILLARY
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BLDG	BUILDING
BTU	BRITSH THERMAL UNITS
BTU/H	BRITISH THERMAL UNITS PER HOUR
CAI	COMBUSTION AIR INTAKE
CAP.	CAPACITY
CAV	CONSTANT AIR VOLUME
CAV	CABINET UNIT HEATER
CC	COOING COIL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFM	GAUGE
CHWP	CHILLED WATER PUMP
CLG	CEILING
CO2	CARBON DIOXIDE
CONN	CONNECTION
COP	COEFFICIENT OF PERFORMANCE
CP	STEAM CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATERS
CWP	CONDESER WATER PUMP
DB	DRY-BULB TEMPERATURE
DE	DRYER EXHAUST
DEF	DRYER EXHAUST FAN
DIA, Ø	DIAMETER
DN	DOWN
DOA	DEDICATED OUTSIDE AIR
EAD	EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATERS
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXH	EXHAUST
F	FAHRENHEIT
F.S.P.	FAN STATIC PRESSURE
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPERAGE
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FIN-TUBE
FT/MIN	FEET PER MINUTE
GAL.	GALLONS
GE	EXHAUST AIR
GPM	GALLONS PER MINUTE
GPR	GEOEXCHANGE PIPE RETURN
GPS	GEOEXCHANGE PIPE SUPPLY
GWP	ETHYLENE GLYCOL WATER PUMP
H	HUMIDISTAT
HC	HEATING COIL
HCP	HEATING COIL PUMP
HOA	HANDS-OFF-AUTO
HP	HORSE POWER
HP	HEAT PUMP
HPS	HIGH PRESSURE SUPPLY
HWP	HOT WATER PUMP
HWV	HOT WATER VALVE
HX	HEAT EXCHANGER
HZ	HERTZ
IH	INTAKE AIR HOOD
IHD	INTAKE HOOD DAMPER
IN/WC	INCHES WATER COLUMN
IN/WG	INCHES WATER GAUGE
KEF	KITCHEN EXHAUST FAN
KFD	KITCHEN EXHAUST CONTROL DAMPER
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LB/HR	POUNDS PER HOUR
LBS	POUNDS
LEF	LAUNDRY EXHAUST FAN
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MBH	THOUSAND BRITSH THERMAL UNITS
MCA	MAXIMUM CURRENT AMPERAGE
MD	MANUAL DAMPER
MERV.	MINIMUM EFFICIENCY RATING VALUE
MFG	MANUFACTURER
MIN.	MINIMUM
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MPS	MEDIUM PRESSURE SUPPLY
MTD	MOUNTED
O.B.D	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OAI	OUTSIDE AIR INTAKE
P	PUMP
P.D.	PRESSURE DROP
P/T	PRESSURE TESTING
PH	ELECTRICAL PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQURE INCH GAUGE

MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PWP	PROCESS WATER PUMP
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RBD	ROUND BACKDRAFT DAMPER
RCR	RECIRCULATION AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RH	RELIEF AIR HOOD
RHV	REHEAT WATER VALVE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
S	SENSOR
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SQ. FT.	SQUARE FEET
STV	STEAM VALVE
T	THERMOSTAT
TE	TOILET EXHAUST
TEF	TOILET EXHAUST FAN
TFD	TOILET EXHAUST CONTROL DAMPER
TG	TRANSFER GRILLE
TRE	TRASH EXHAUST
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATERS
V	VOLTAGE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
WB	WET-BULB TEMPERATURE
WC	INCHES IN WATER COLUMN

GENERAL MECHANICAL NOTES

NOTES APPLY TO ALL MECHANICAL DRAWINGS

1. EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAID CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID. CODE CONFORMING SCALED (1/4") COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES
2. WHERE ADDITIONAL DETAILS, DIAGRAMS, EQUIPMENT DATA, AND ISOMETRICS ARE REQUIRED BY BUILDING DEPARTMENT OR CODE AUTHORITIES FOR PERMIT OR APPROVAL, CONTRACTOR SHALL PROVIDE SAME AT NO ADDITIONAL COST.
3. BUILDING PLANS SHOWN ARE COMPILED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, THE INFORMATION SHOWN ON THESE PLANS IS SCHEMATIC AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPER DIMENSIONS, SIZES, SYSTEM VOLTAGES, QUANTITIES AND EXTENT OF WORK.
4. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES AND IMPACT ON THEIR WORK.
5. WITH THE APPROVAL OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE MODIFICATIONS IN THE WORK, INCLUDING REROUTING AS REQUIRED BY INTERFERENCE WITH STRUCTURAL, GENERAL AND WORK OF OTHER TRADES FOR PROPER EXECUTION OF THE WORK.
6. REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS. RCP, DIMENSIONED ELEMENTS.
7. CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.
8. REFER TO ELECTRICAL DIAGRAM AND SPECIFICATIONS FOR VFD DRIVES TYPE, MODEL REQUIREMENTS.
9. ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.
10. MEDIUM/LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. SUPPLY DUCTWORK, MEDIUM PRESSURE SHALL NOT EXCEED 2000 FPM VELOCITY OR 0.2 IN/100 FT. PRESSURE DROP. LOW PRESSURE DUCTWORK SHALL NOT EXCEED 1500 FPM OR 0.08 IN/100 FT. PRESSURE DROP. EXHAUST DUCTWORK SHALL NOT EXCEED 1500 FPM OR 0.08 IN/100 FT. PRESSURE DROP.
11. PROVIDE MANUAL DAMPER ON ALL LOW PRESSURE SUPPLY BRANCH TAKE-OFF OF DUCTWORK.
12. ALL DUCT SIZES SHOWN SHALL BE CLEAR INSIDE DIMENSIONS.
13. DIFFUSERS, REGISTERS ARE AS SCHEDULED IN THE DRAWING. CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT TYPE OF CEILING TO DETERMINE FRAME TYPE.
14. BLANK-OFF WITH BLACK PAINTED PANEL WHERE SHOWN. DO NOT PAINT EXPOSED DUCTS OR REGISTERS.
15. PROVIDE UL APPROVED FIRE DAMPERS IN ALL DUCT PENETRATIONS THRU FIRE RATED ASSEMBLIES WHETHER INDICATED OR NOT. PROVIDE ACCESS TO FIRE DAMPERS IN COMPLIANCE WITH IMC 607.4 2
16. FLEXIBLE DUCTWORK: FINAL CONNECTIONS TO ALL BOOT ASSEMBLIES, DIFFUSERS AND REGISTERS SHALL BE MADE WITH CODE-APPROVED INSULATED FLEXIBLE DUCT, THE RMAFLEX TYPE M-KE OR AS MANUFACTURED BY FLEX MASTER OR GENFLEX. FLEXIBLE DUCTWORK SHALL NOT BE USED IN DUCTWORK AS AN ELBOW. FLEXIBLE DUCTWORK SHALL BE: STRAIGHT WITH ONLY MINOR OFFSETS NECESSARY FOR FIELD CONDITIONS. FLEXIBLE DUCTWORK SHALL NOT EXCEED 6'-0" IN LENGTH IN EITHER MEDIUM OR LOW VELOCITY SYSTEMS, SHALL BE PROPERLY SUPPORTED TO PREVENT KINKS OR SAGS, AND SHALL BE NOT BE USED AS AN ELBOW. CONNECTIONS SHALL BE SECURED WITH WRAP LOCK CLAMPS AND SEALED WITH DUCT SEALER. INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES WHICH MAY RESTRICT TYPE, LENGTH AND USE OF FLEXIBLE DUCT.
17. ALL CONCEALED COLD TEMPERATURE DUCTWORK, INCLUDING SUPPLY DUCTS, SHALL BE INSULATED AS REQUIRED OR PER BUILDING STANDARDS TO PREVENT CONDENSATION. ALL NEW CONCEALED DUCTWORK UPSTREAM OF VAV TERMINAL UNITS SHALL BE INSULATED, INTERIOR DUCT LINING IS NOT ALLOWED.
18. FUEL GAS PIPING AND CONTROLS MUST CONFORM TO THE INTERNATIONAL FUEL GAS CODE(IFGC), CHAPTER 4 (WITH MODIFICATIONS AS NOTED IN ARTICLE 14). [18-28-1400]
19. GAS PIPING MUST BE SIZED IN ACCORDANCE WITH IFGC TABLES 402.(1) THROUGH 402.3 (34). [IFGC 402.3]
20. THE MAXIMUM DESIGN OPERATING PRESSURE FOR GAS PIPING SYSTEMS LOCATED INSIDE BUILDINGS SHALL NOT EXCEED 5 PSIG (SOME EXCEPTIONS ARE NOTED). [TFGC 402.5]
21. GAS PIPING MATERIALS MUST CONFORM TO THE GAS PIPING & TUBING MATERIAL MATRIX (IFGC 403 REQUIREMENTS). [IFGC 403]
22. GAS PIPING IN CONCEALED LOCATIONS MUST CONFORM TO IFGC 404.4, 404.5 & 404.7 & FITTINGS SHALL BE LIMITED TO THREADED ELBOWS, TEES, COUPLINGS, BRAZED, WELDED, AND FITTINGS LISTED TO ANSI LC-1/CSA 6.26 OR ANSI LC-4 3
23. GAS PIPES MUST BE SLOPED AT 1/4 INCH IN EVERY 15 FEET. [IFGC 408.1]
24. ALL FITTINGS AND CONNECTIONS FOR ALL CHILLED WATER, COOLING WATER, HEATING HOT WATER SYSTEMS INSIDE THE BUILDING, EXCEPT INSIDE THE EQUIPMENT ROOM SHALL BE WELDED OR BRAZED.
25. PROVIDE FLEXIBLE DUCTS RATED FOR 10 INCH WG PRESSURE RATING. PROVIDE STRAP FOR INSIDE AND OUTSIDE LINING AT EACH CONNECTION POINT. MINIMUM HYDRONIC PIPING SIZE SHALL BE 3/4".
26. SMOKE DUCT DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THEIR LOCATION BASED ON THE ACTUAL DUCT ROUTING. INSTALLATION TO BE LEAK FREE AND SHALL PASS THE DUCT PRESSURE TEST.
27. LINE THE FOLLOWING DUCTWORK, REGARDLESS OF WHETHER SYSTEMS ARE EXPOSED OR CONCEALED, WITH 1" LINING.
    A. ALL NEW DUCTWORK WITHIN 25' OF FANS
    B. NEW TRANSFER AIR DUCTS
    C. NEW DUCTWORK FOR AT LEAST 15' DOWNSTREAM OF VAV TERMINAL DUCTS
28. EVERY REFRIGERANT-CONTAINING PART OF EVERY SYSTEM, EXCEPT THOSE WHICH ARE FACTORY TESTED SHALL BE TESTED AND PROVED TIGHT AFTER INSTALLATION AND BEFORE OPERATION. TESTS SHALL INCLUDE BOTH THE HIGH AND LOW-PRESSURE SIDES OF EACH SYSTEM AT NOT LESS THAN THE LOWER OF THE DESIGN PRESSURES. REFER TO SPECIFIRATION SECTION 233300.3.7.B 3

GENERAL NOTE: NOT ALL SYMBOLS, NOTES AND ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT

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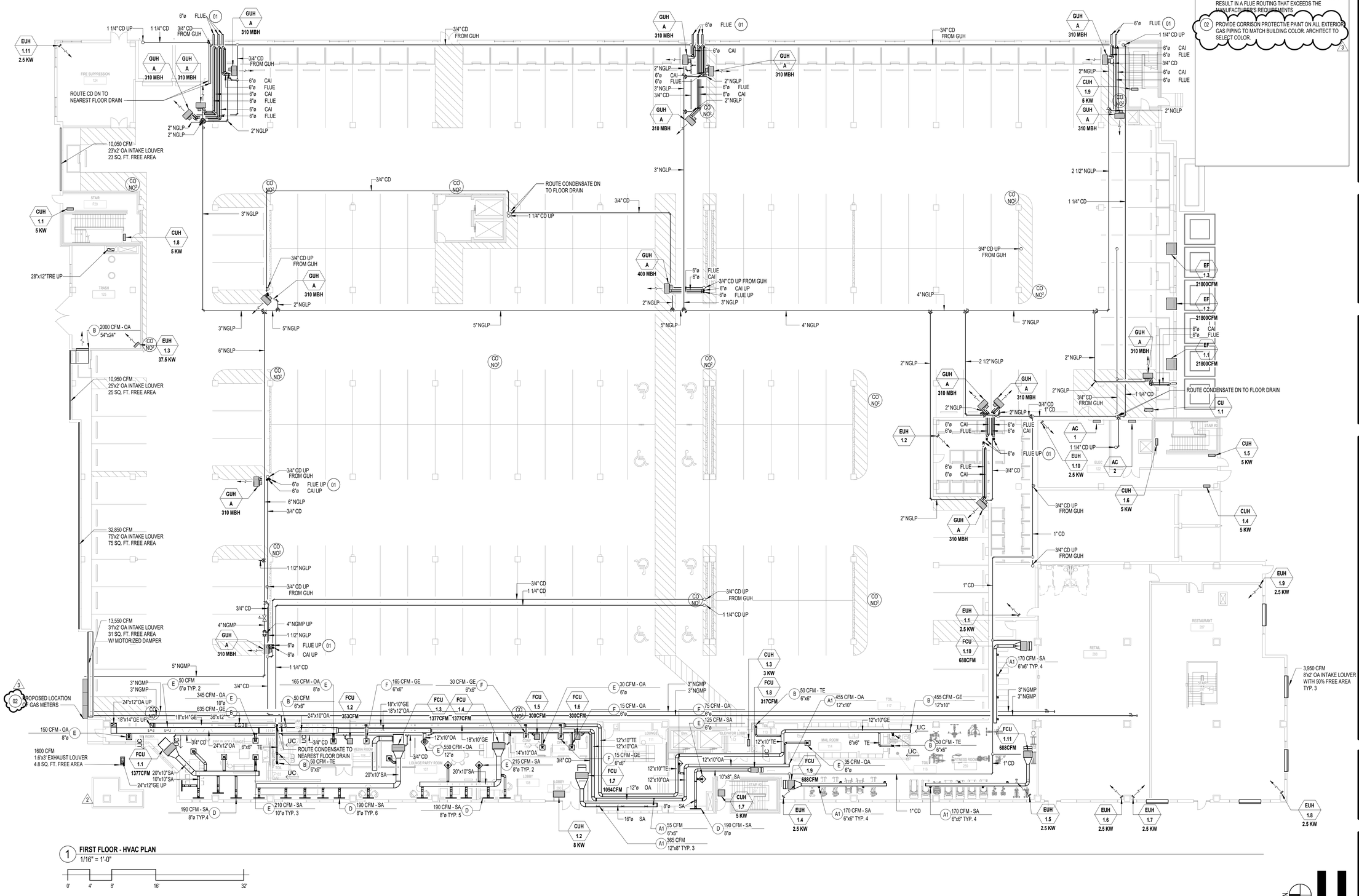

1 FIRST FLOOR - HVAC PLAN
1/16" = 1'-0"

0' 4' 8' 16' 32'

MECHANICAL DUCTWORK NOTES

01 FLUE HAS BEEN ROUTED TO STAY WITHIN THE MANUFACTURER FLUE MAXIMUM LENGTH REQUIREMENTS. PROVIDE A FLUE DRAFT INDUCER FOR ANY SUBSTITUTIONS OR VARIATIONS OF FLUE ROUTING THAT RESULT IN A FLUE ROUTING THAT EXCEEDS THE MANUFACTURER'S REQUIREMENTS

02 PROVIDE CORRISON PROTECTIVE PAINT ON ALL EXTERIOR GAS PIPING TO MATCH BUILDING COLOR. ARCHITECT TO SELECT COLOR.

REVISION	DATE
ISSUE FOR PERMIT	04.05.2021
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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

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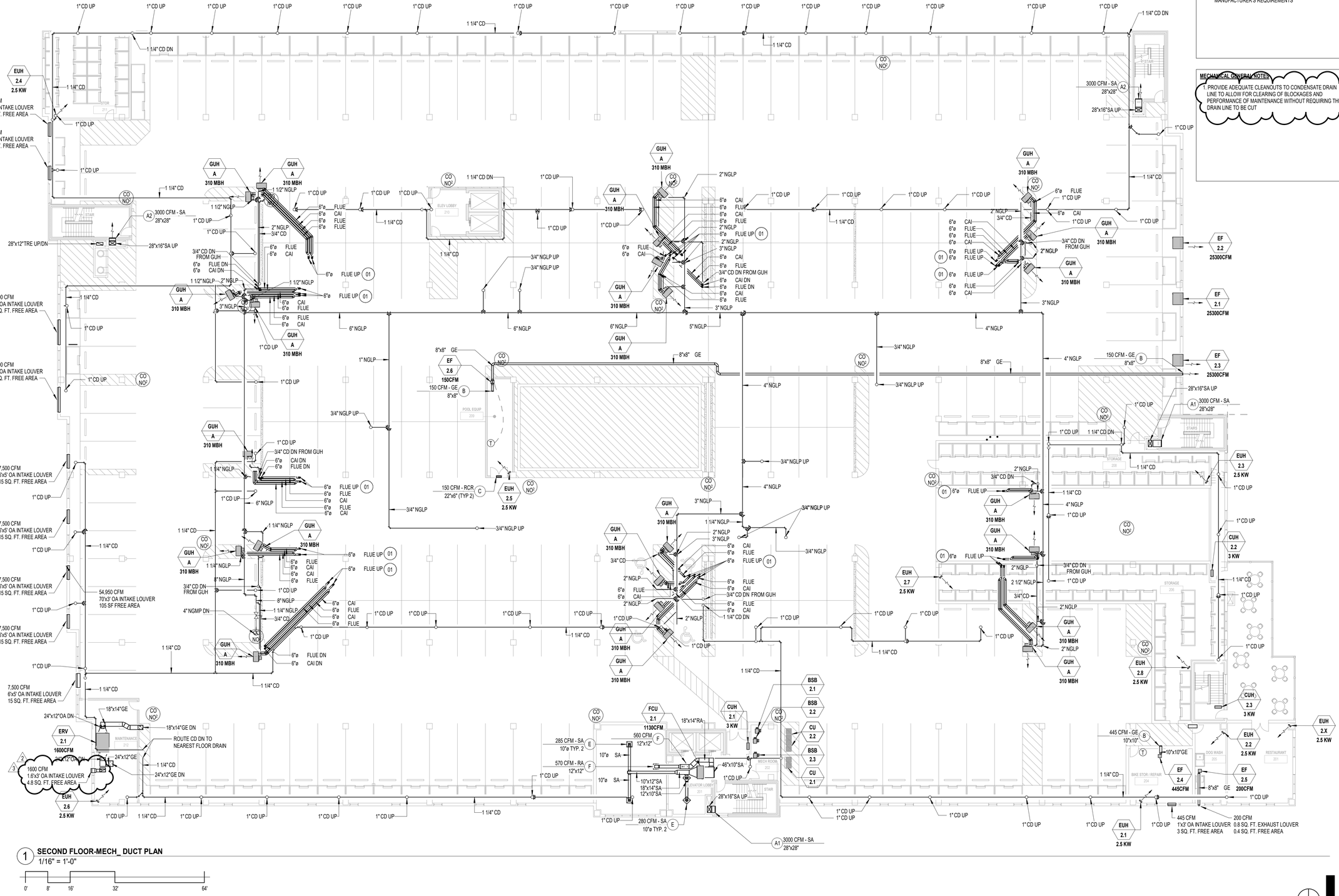

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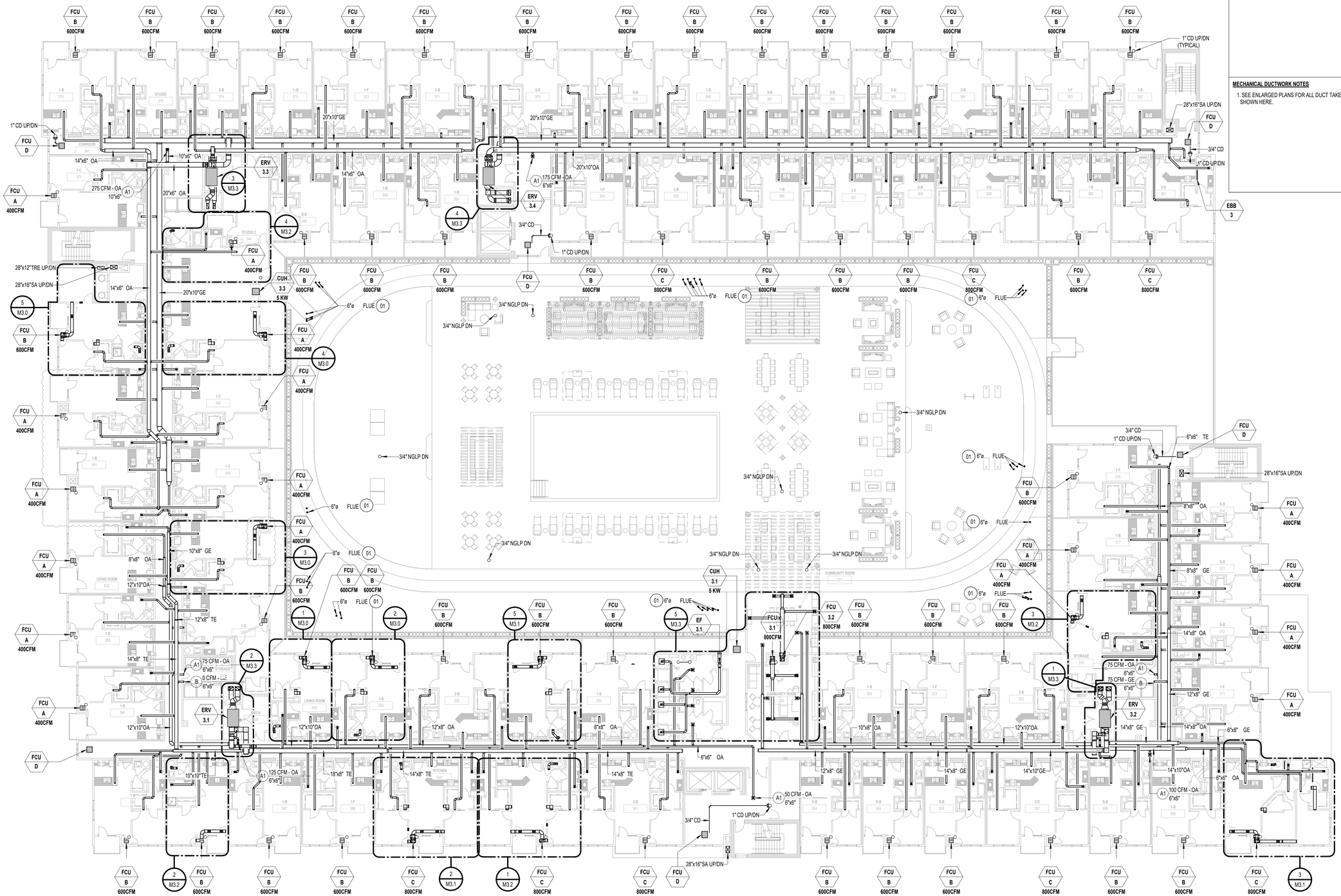

1 **THIRD FLOOR-MECH_DUCT PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

MECHANICAL DUCTWORK KEYNOTES

01 TERMINATE FLUES WITH CONCENTRIC KIT

MECHANICAL DUCTWORK NOTES

1. SEE ENLARGED PLANS FOR ALL DUCT TAKEOFF SIZES NOT SHOWN HERE.

REVISION	DATE
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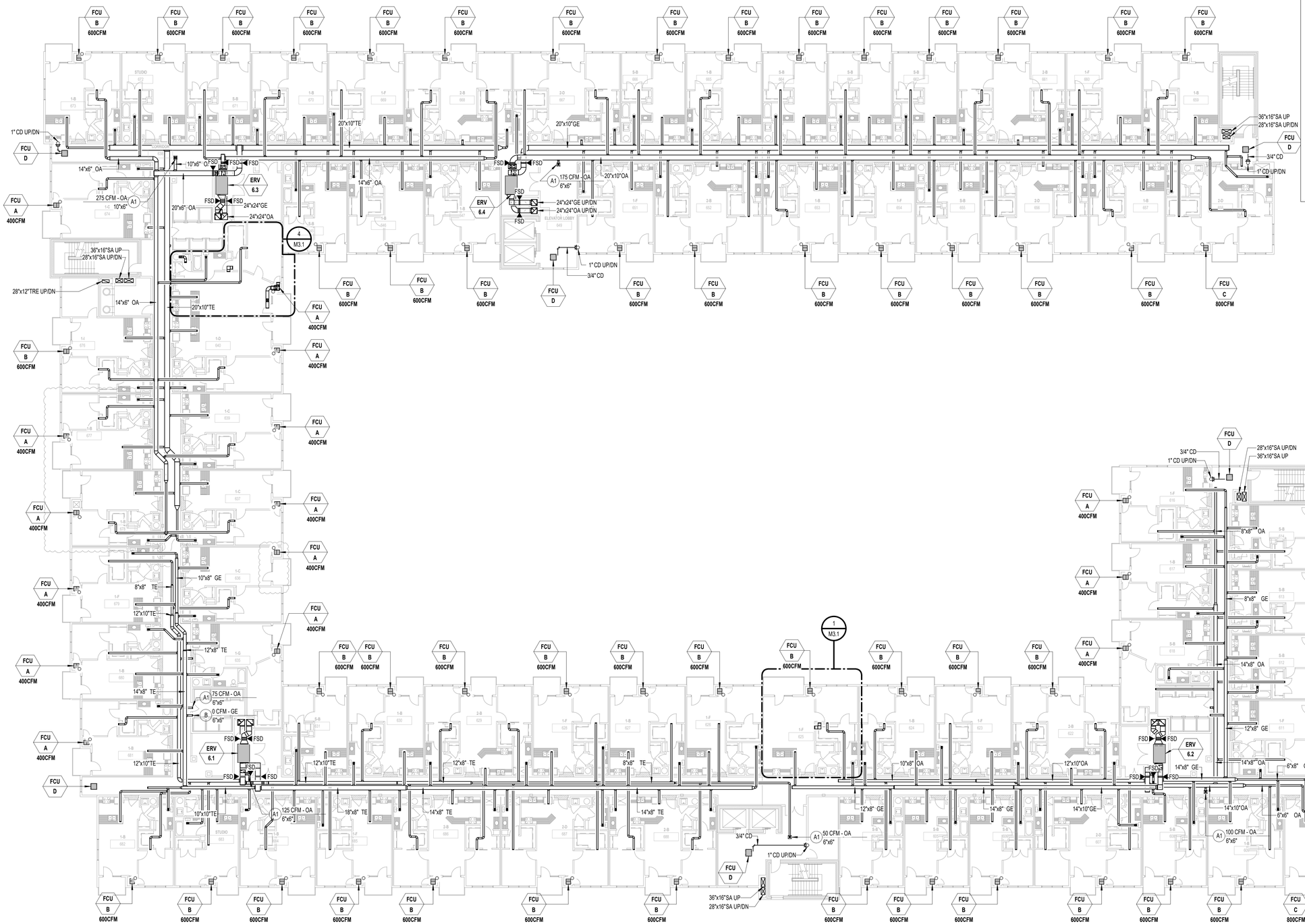

1 TYPICAL FOURTH THROUGH SIXTH FLOOR-MECH_ DUCT PLAN
1/16" = 1'-0"

0' 8' 16' 32' 64'

N

MECHANICAL DUCTWORK NOTES

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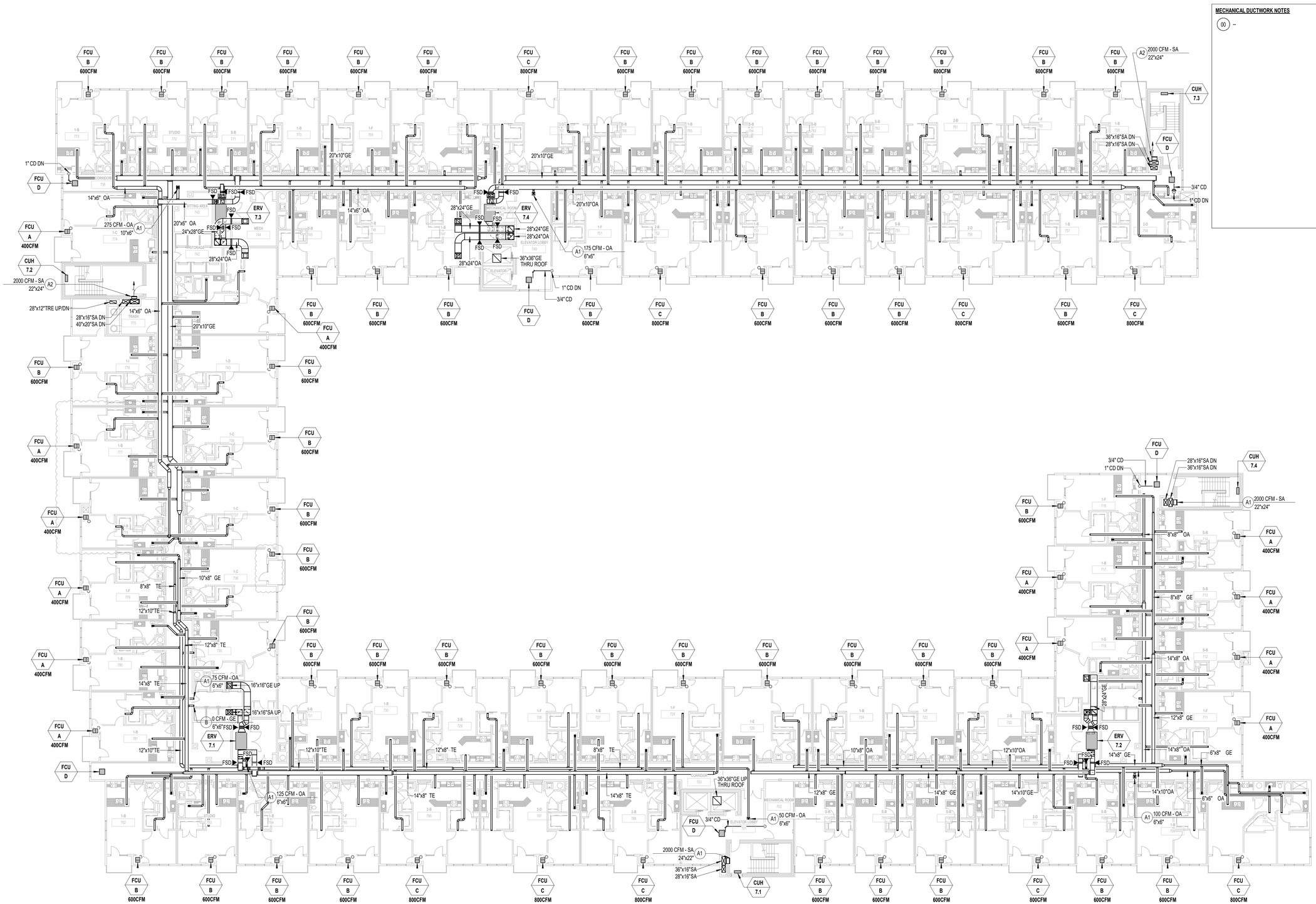

1 **SEVENTH FLOOR-MECH_ DUCT PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

MECHANICAL DUCTWORK NOTES

00 --

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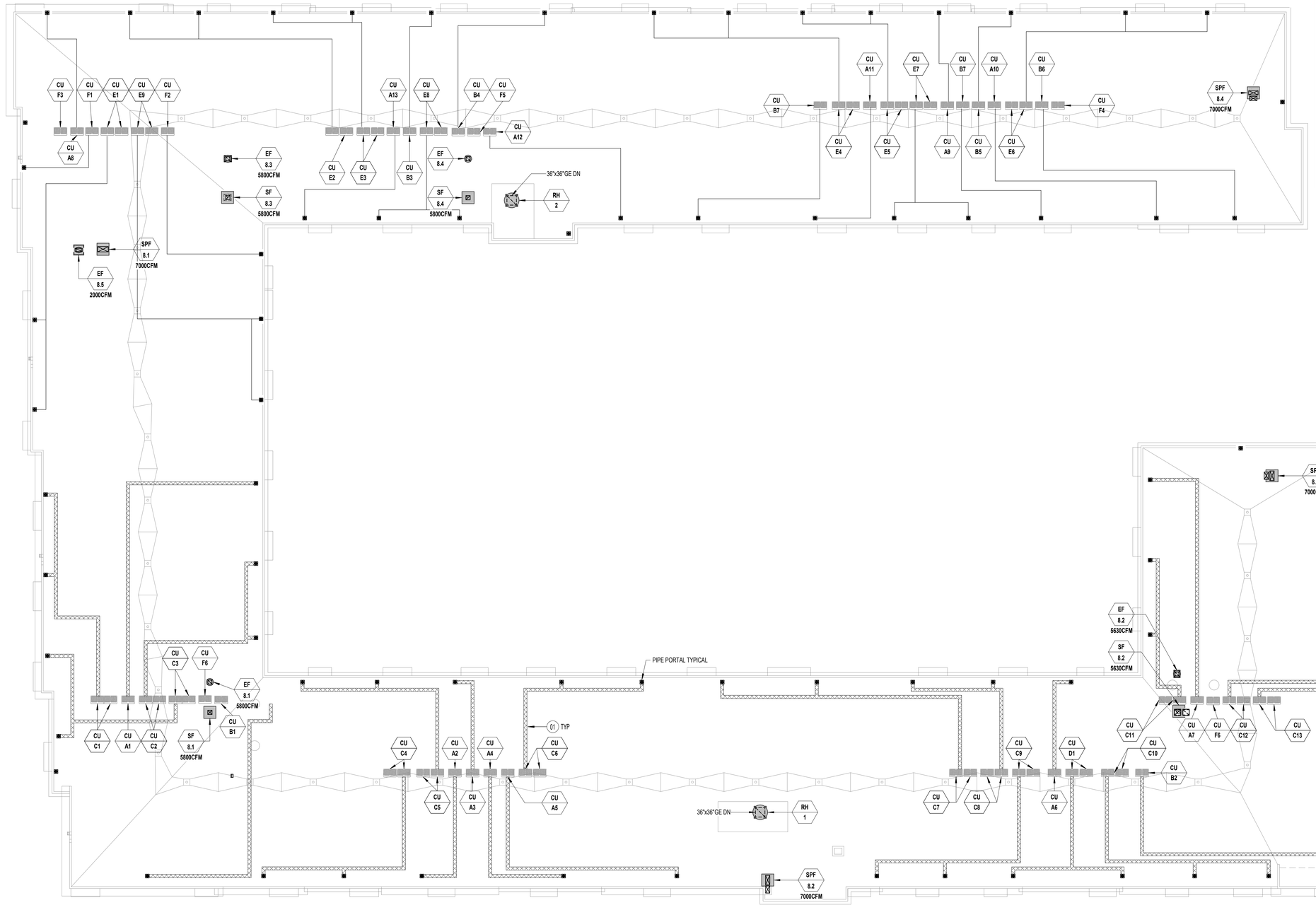

1 **ROOF-MECH_ DUCT PLAN**
1/16" = 1'-0"

0' 4' 8' 16' 32'

MECHANICAL DUCTWORK NOTES

01 REFRIGERANT PIPE ROUTING. CONTRACTOR RESPONSIBLE TO COORDINATE w/ SOLAR PANEL LAYOUT PRIOR TO ANY DEVIATION. MAXIMIZE SOLAR PV AREA. OWNER APPROVAL REQUIRED PRIOR TO INSTALLING.

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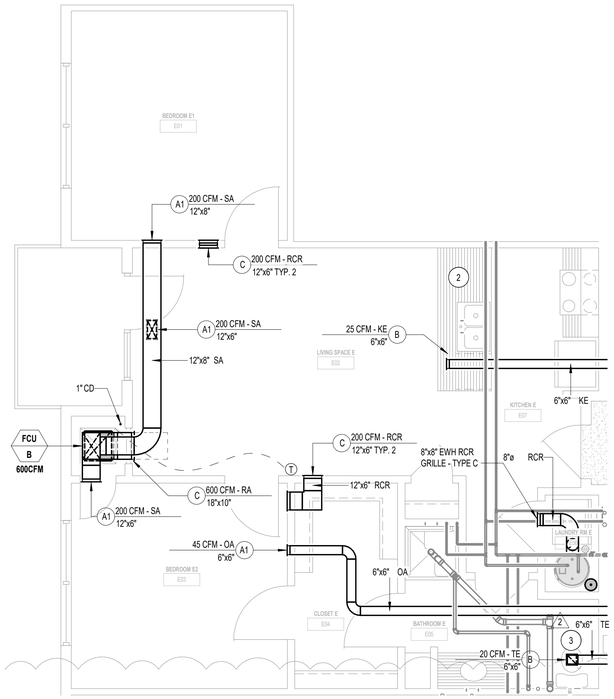
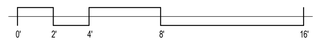
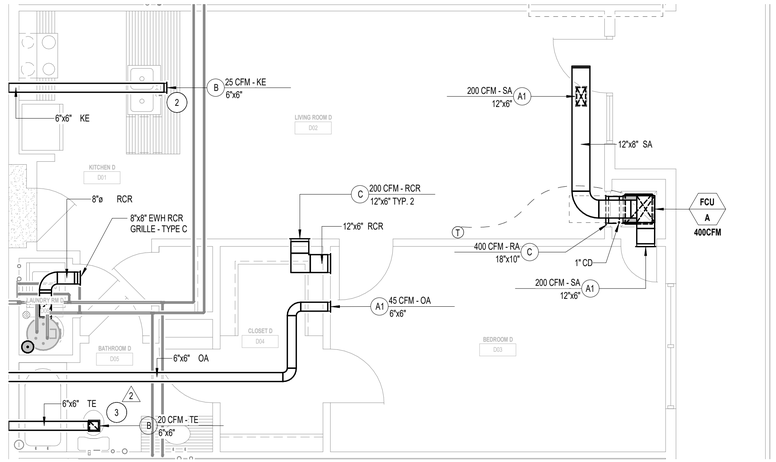
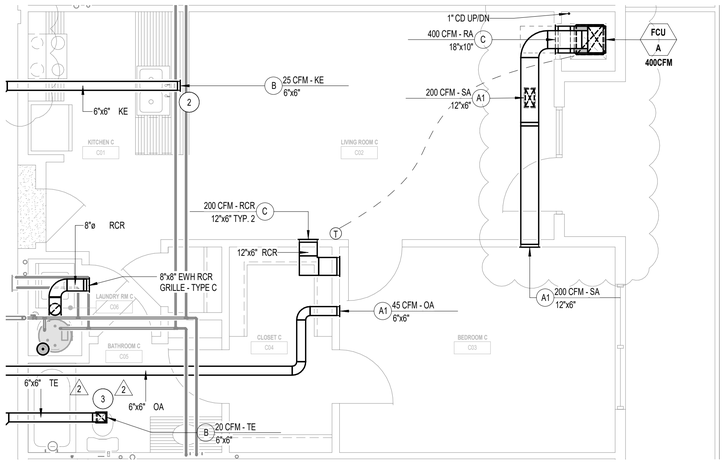


5 **ONE BEDROOM UNIT - TYPE E - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

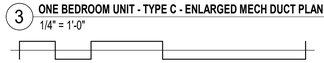


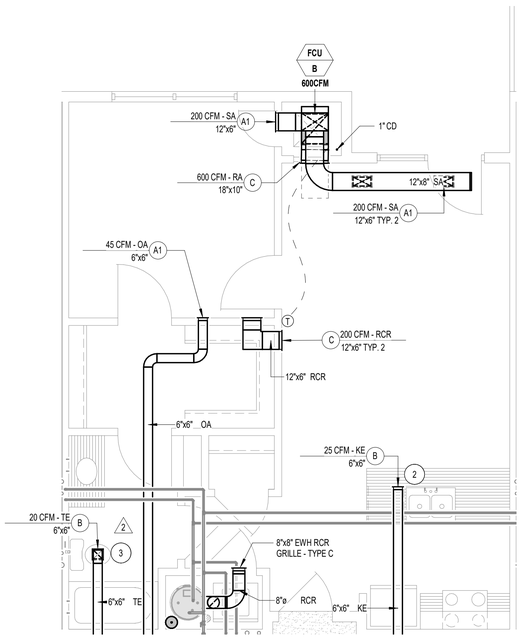


4 **ONE BEDROOM UNIT - TYPE D - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

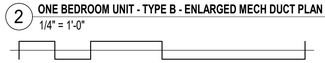


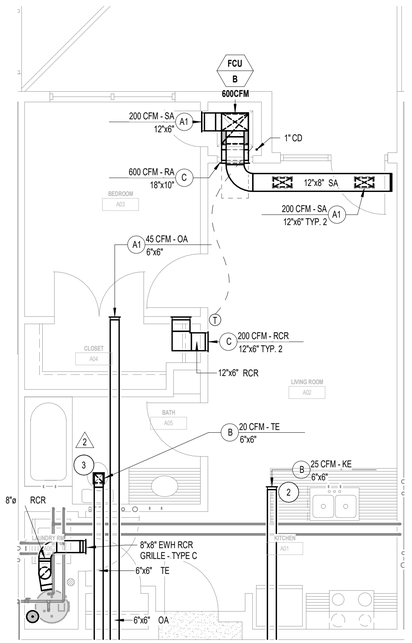
3 **ONE BEDROOM UNIT - TYPE C - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"



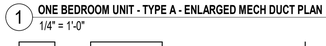


2 **ONE BEDROOM UNIT - TYPE B - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"





1 **ONE BEDROOM UNIT - TYPE A - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"



MECHANICAL NOTES

1. TRANSFER GRILLE MOUNTED HIGH AND LOW. TYPICAL FOR EACH RESIDENTIAL WATER HEATER
2. MOUNT KITCHEN EXHAUST GRILLE A MINIMUM OF 6' FROM RANGE. TYPICAL FOR EACH UNIT.
3. PROVIDE RADIATION DAMPER FOR CEILING MOUNTED GRILLE △2

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
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TECHNICIANS
JMB
COMMISSION NUMBER
2793
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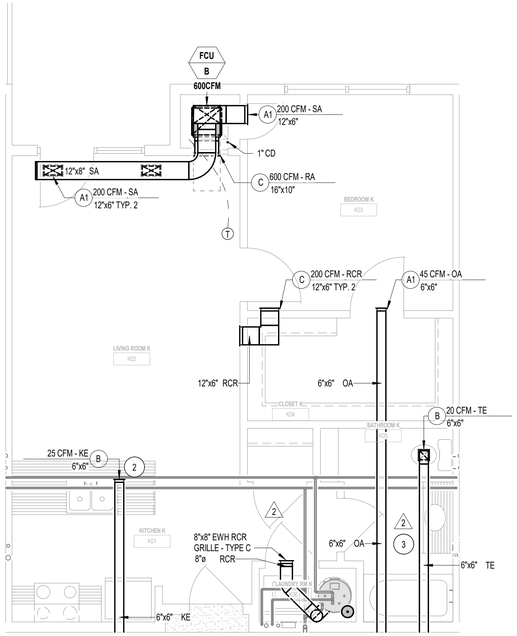
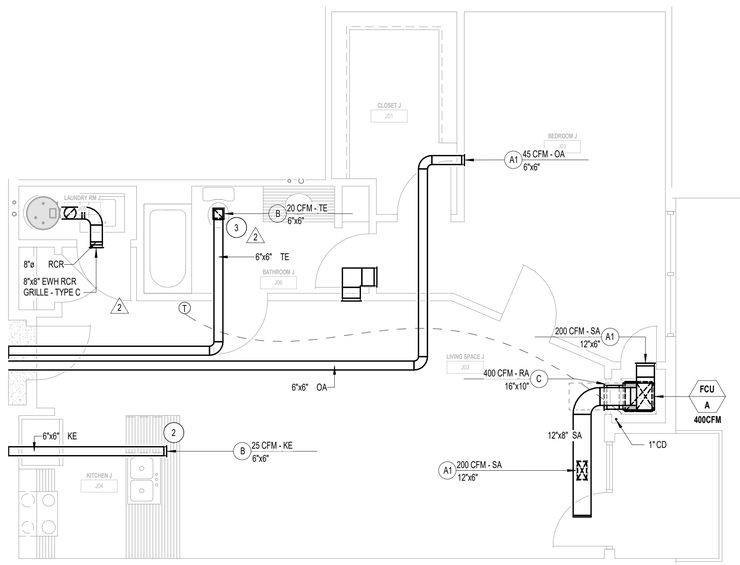


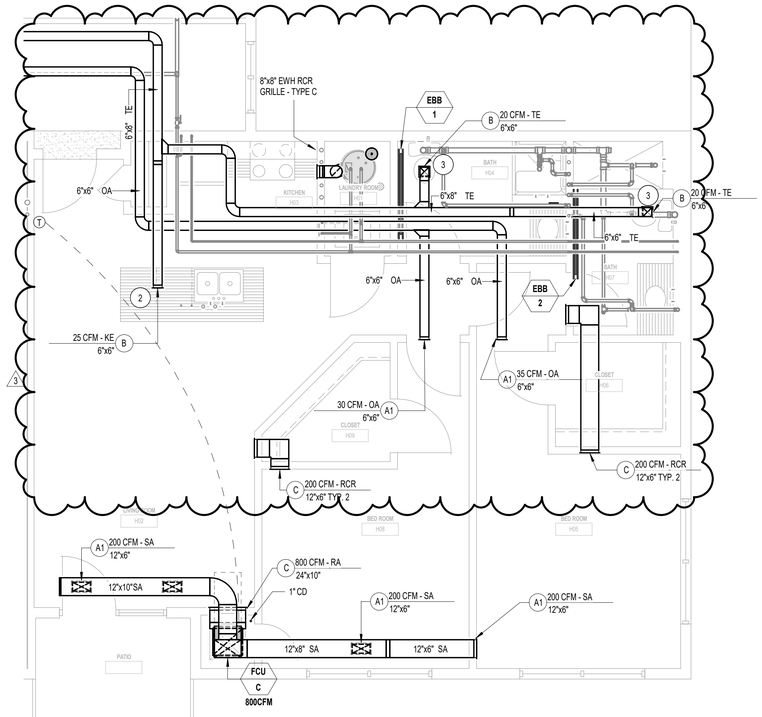
5 **ONE BEDROOM UNIT - TYPE K - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



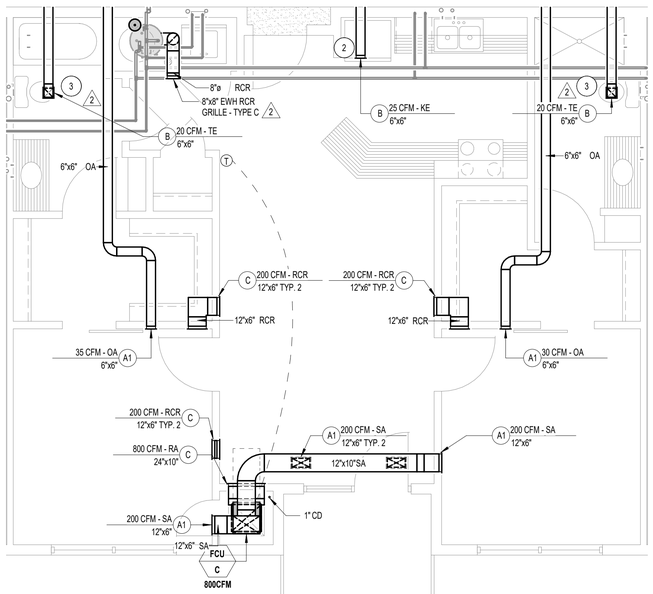
4 **ONE BEDROOM UNIT - TYPE J - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



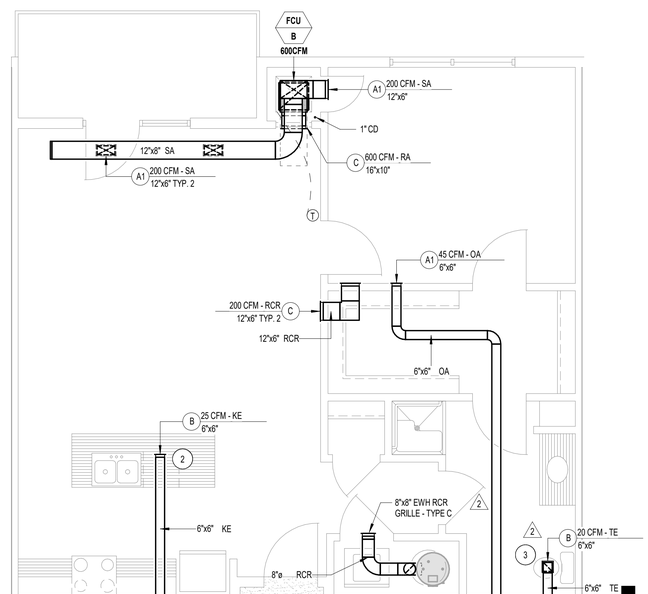
3 **TWO BEDROOM UNIT - TYPE H - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **TWO BEDROOM UNIT - TYPE G - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **ONE BEDROOM UNIT - TYPE F - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'

MECHANICAL NOTES

1. TRANSFER GRILLE MOUNTED HIGH AND LOW. TYPICAL FOR EACH RESIDENTIAL WATER HEATER
2. MOUNT KITCHEN EXHAUST GRILLE A MINIMUM OF 6' FROM RANGE. TYPICAL FOR EACH UNIT.
3. PROVIDE RADIATION DAMPER FOR CEILING MOUNTED GRILLE 2

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TECHNICIANS
JMB
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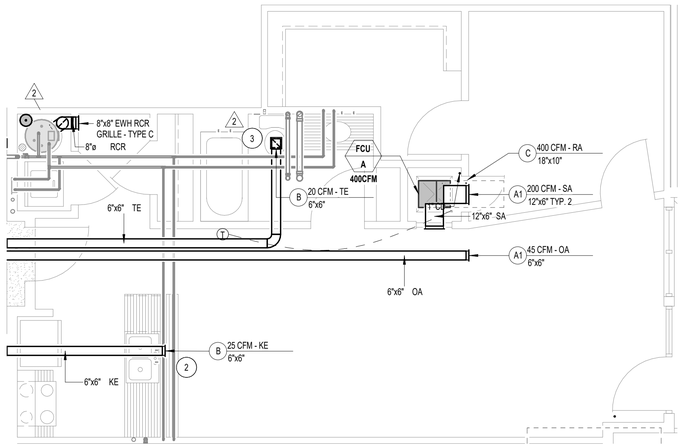
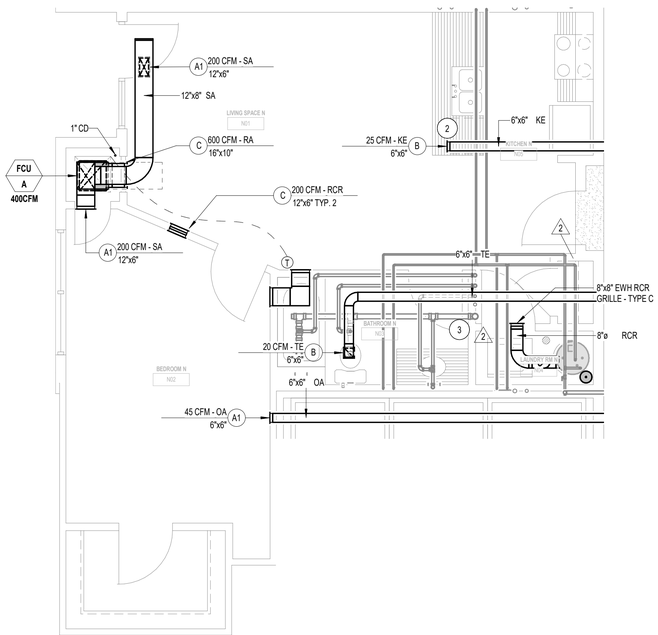


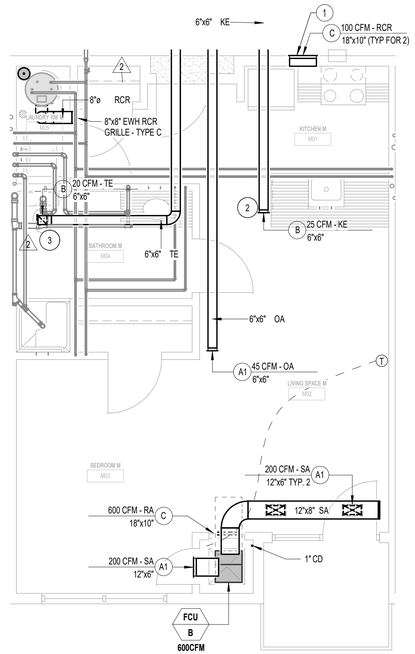
4 **STUDIO UNIT - TYPE O - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



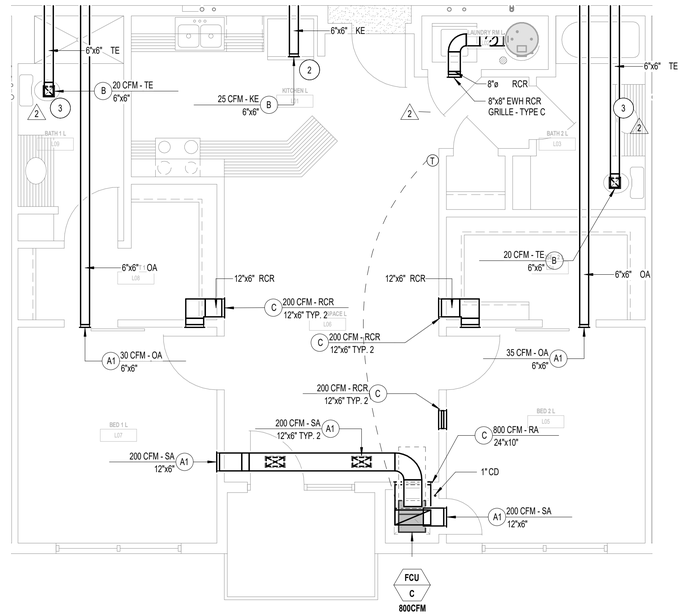
3 **ONE BEDROOM UNIT - TYPE N - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **STUDIO UNIT - TYPE M - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **TWO BEDROOM UNIT - TYPE L - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'

MECHANICAL NOTES

1. TRANSFER GRILLE MOUNTED HIGH AND LOW. TYPICAL FOR EACH RESIDENTIAL WATER HEATER
2. MOUNT KITCHEN EXHAUST GRILLE A MINIMUM OF 6' FROM RANGE. TYPICAL FOR EACH UNIT.
3. PROVIDE RADIATION DAMPER FOR CEILING MOUNTED GRILLE △2

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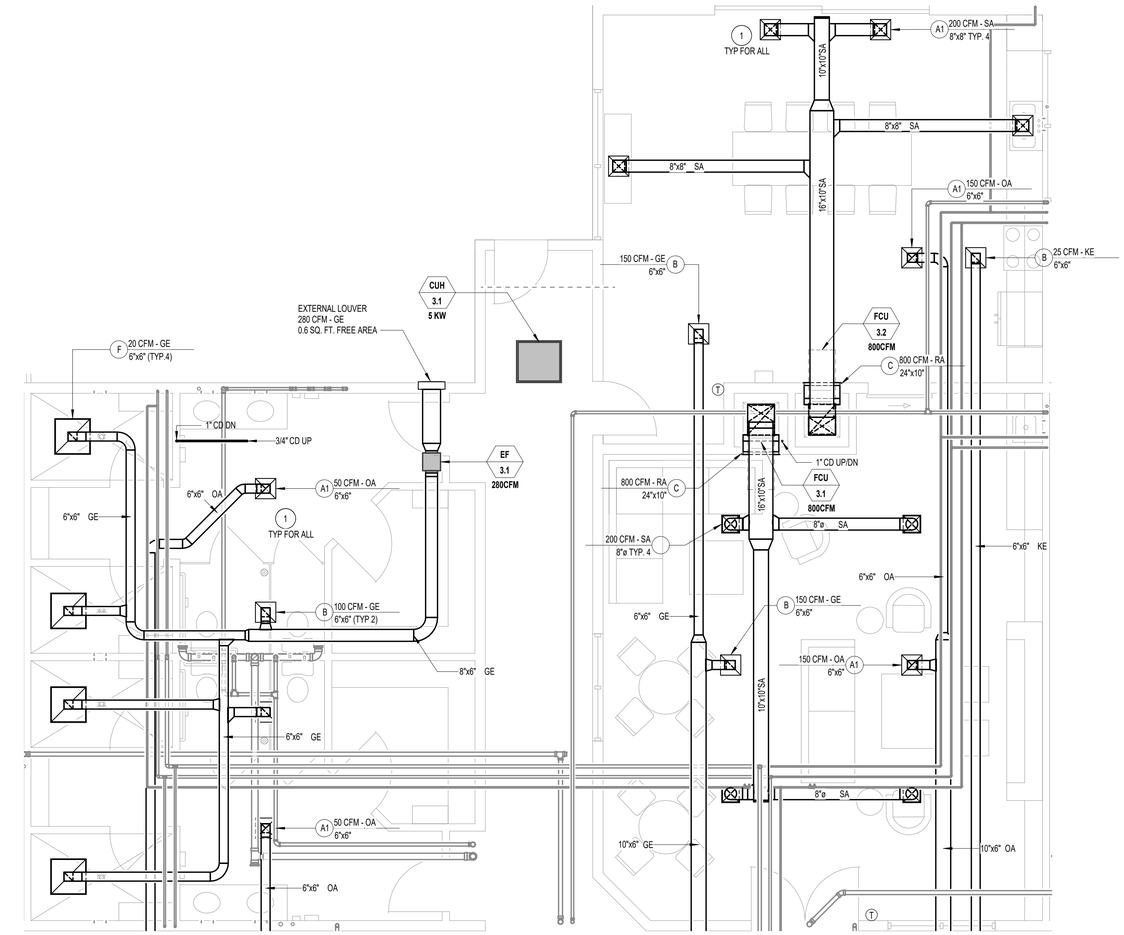
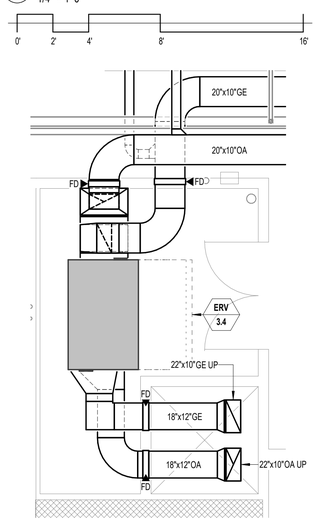
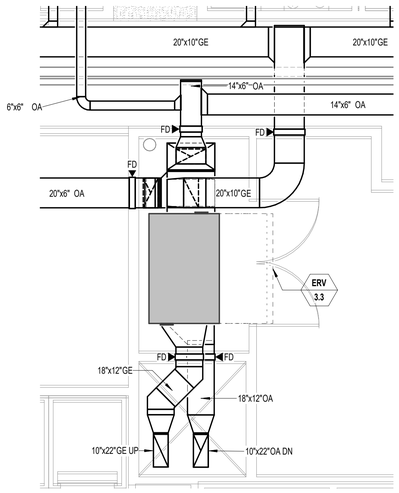
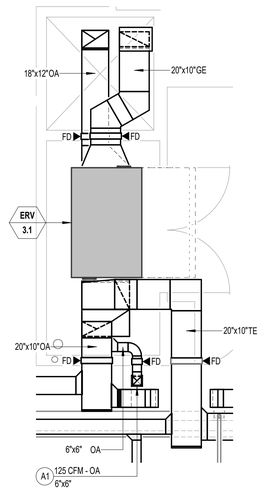
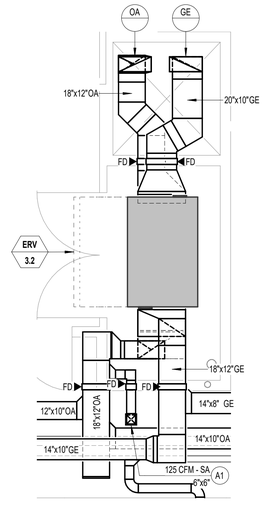


5 **THIRD FLOOR AMENITY SPACE - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

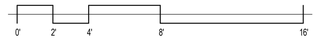








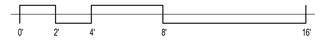
4 **THIRD FLOOR MECH ROOM EAST - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"



3 **THIRD FLOOR MECH ROOM NORTHEAST - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

2 **THIRD FLOOR MECH ROOM NORTHWEST - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"

1 **THIRD FLOOR MECH ROOM SOUTH - ENLARGED MECH DUCT PLAN**
1/4" = 1'-0"



MECHANICAL NOTES

1 PROVIDE RADIATION DAMPER FOR CEILING MOUNTED GRILLE

REVISION	DATE
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ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

M3.3

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1 **2-D MECHANICAL - AIRSIDE RISER**
NTS

2 **2-D MECHANICAL - AIRSIDE RISER - STAIRWAY PRESSURIZATION (TYP)**
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M4.0

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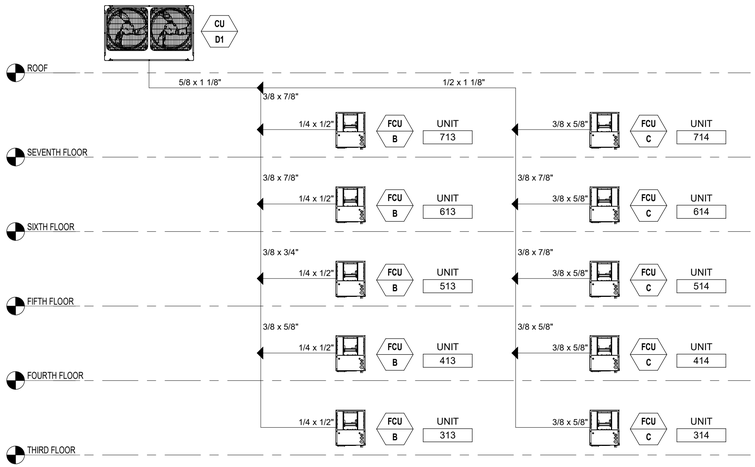
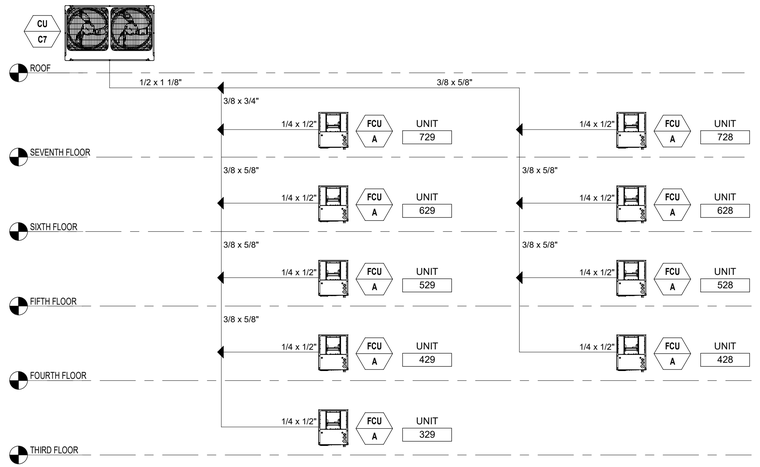
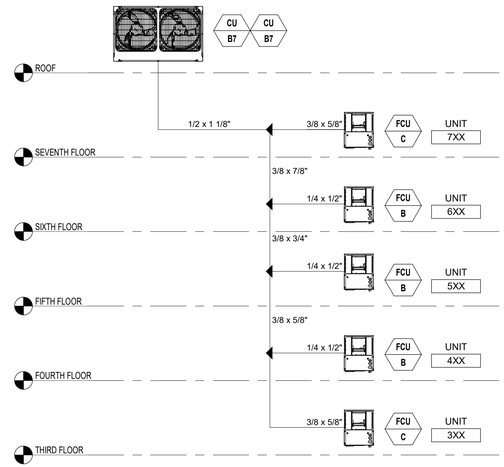


9 **CU-D1 VRF PIPING RISER DIAGRAM**
NTS



8 **CU-C7 VRF PIPING RISER DIAGRAM**
NTS



7 **CU-B7 VRF PIPING RISER DIAGRAM**
NTS

6 **TYPICAL CU-C4, CU-C9, CU-C10 VRF PIPING RISER DIAGRAM**
NTS

5 **CU-B2, CU-B6 VRF PIPING RISER DIAGRAM**
NTS

4 **CU-B1 VRF PIPING RISER DIAGRAM**
NTS

3 **TYPICAL CU-C1, CU-C2, CU-C3, CU-C5, CU-C6, CU-C8, CU-C11, CU-C12, CU-C13 VRF PIPING RISER DIAGRAM**
NTS

2 **TYPICAL CU-A2, CU-A4, CU-A5 VRF PIPING RISER DIAGRAM**
NTS

1 **TYPICAL CU-A1, CU-A3, CU-A6, CU-A7, CU-A8, CU-A9, CU-A10, CU-A11, CU-A12, CU-A13 VRF PIPING RISER DIAGRAM**
NTS

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M4.1

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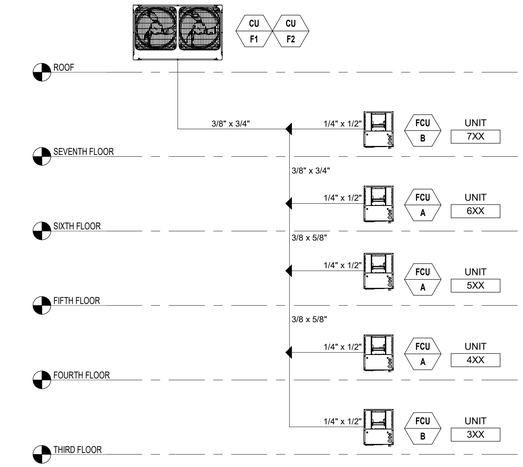
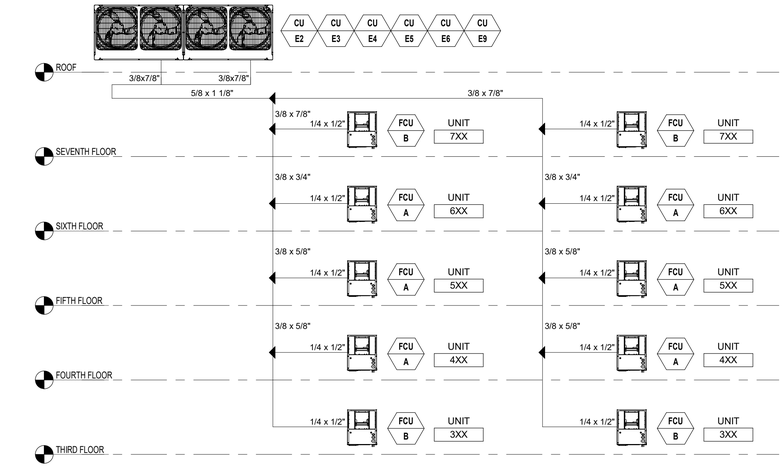
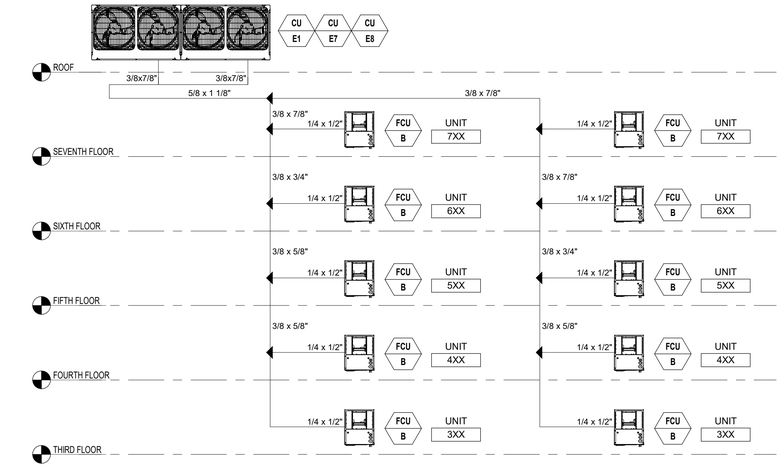


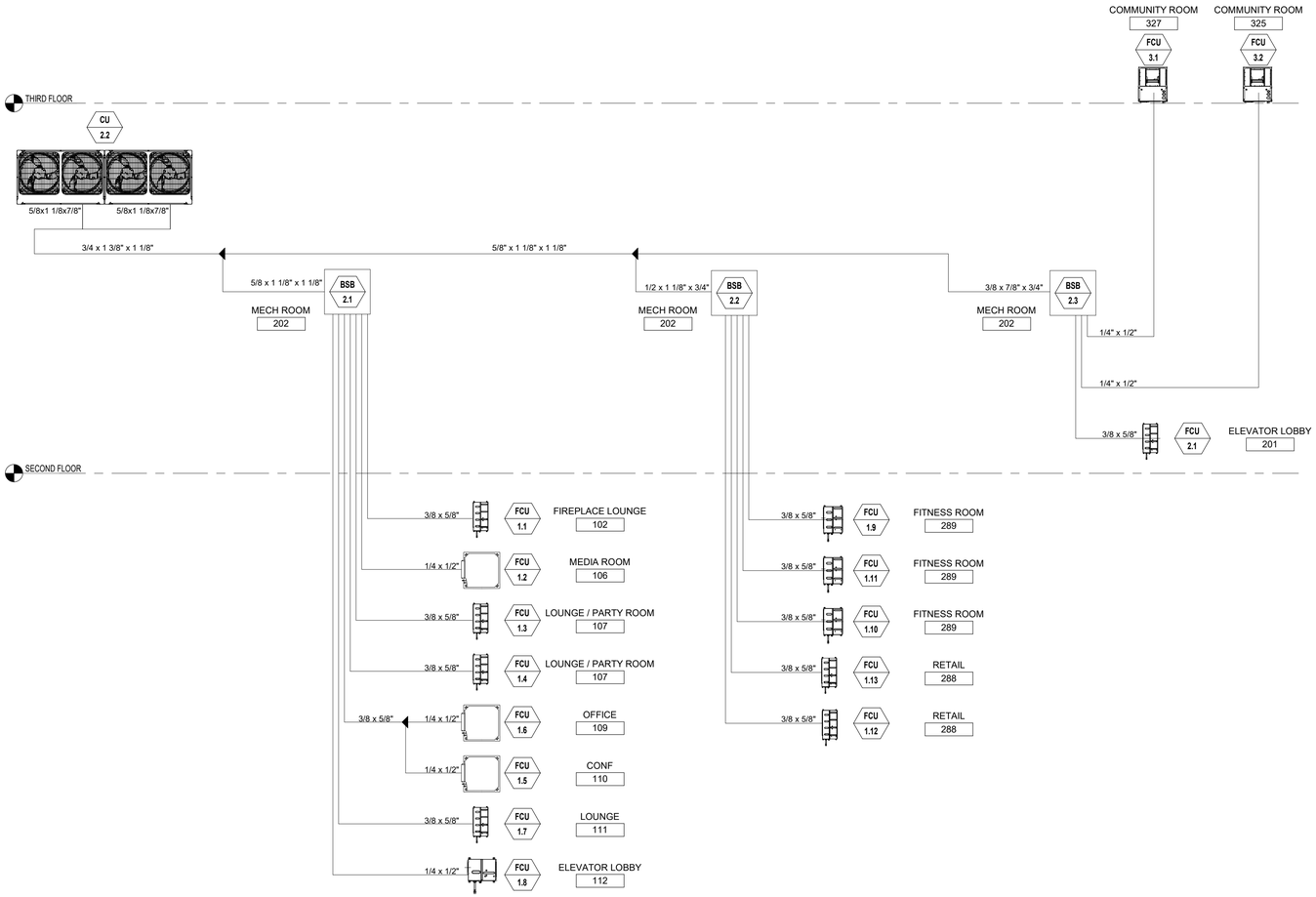
5 **CU-F1 & CU-F2 VRF PIPING RISER DIAGRAM**
NTS



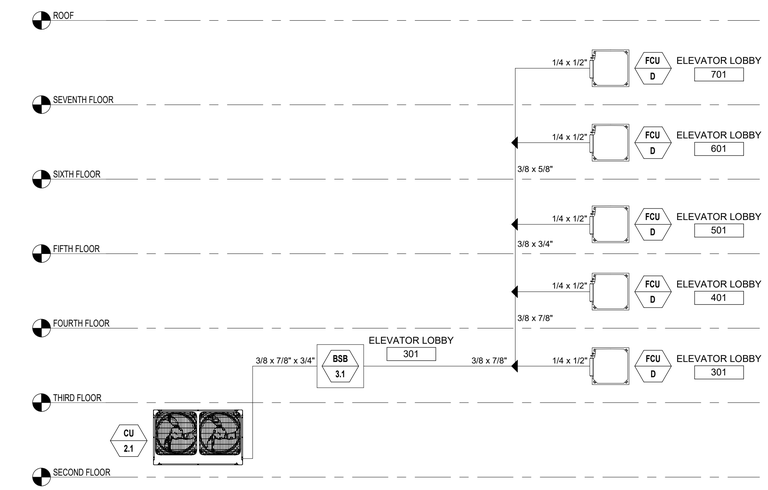
4 **CU-E2-6, E-9 VRF PIPING RISER DIAGRAM**
NTS



3 **CU-E1, E-7, E-8 VRF PIPING RISER DIAGRAM**
NTS



2 **CU-2.2 VRF PIPING RISER DIAGRAM**
NTS



1 **CU-2.1 VRF PIPING RISER DIAGRAM**
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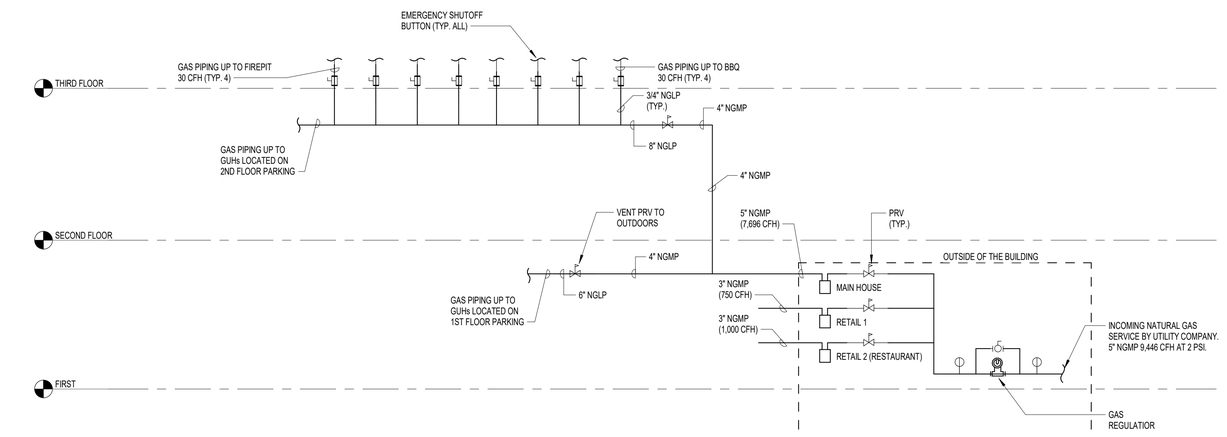

1 **GAS PIPING RISER DIAGRAM**
NTS

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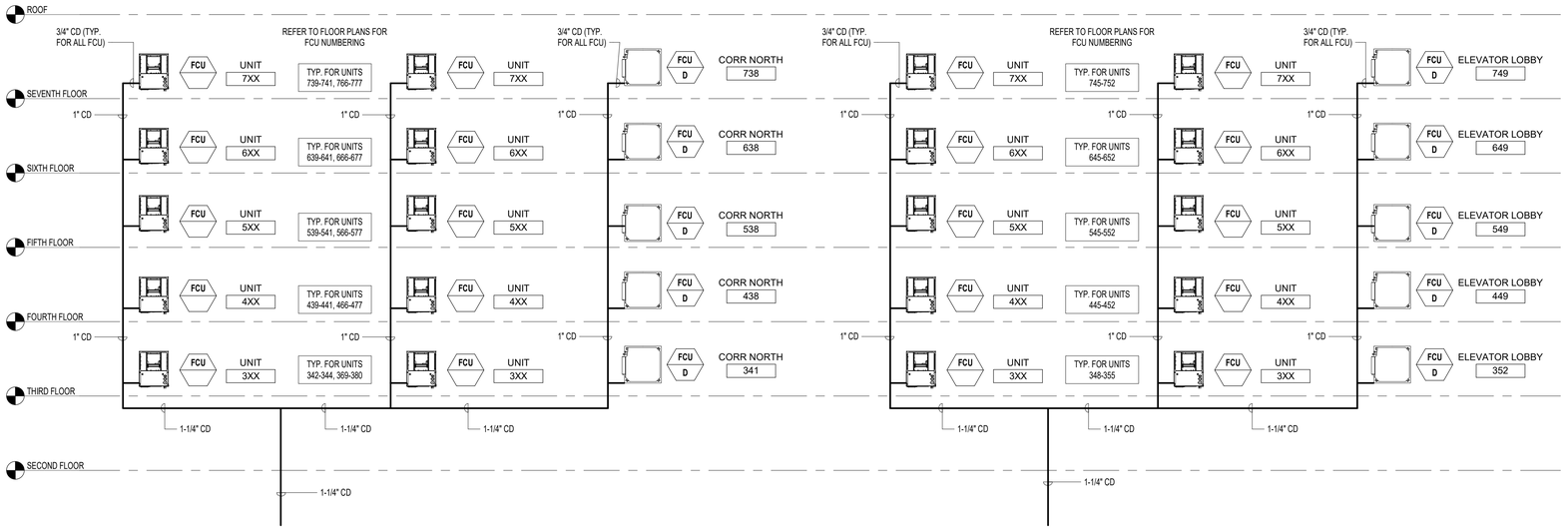
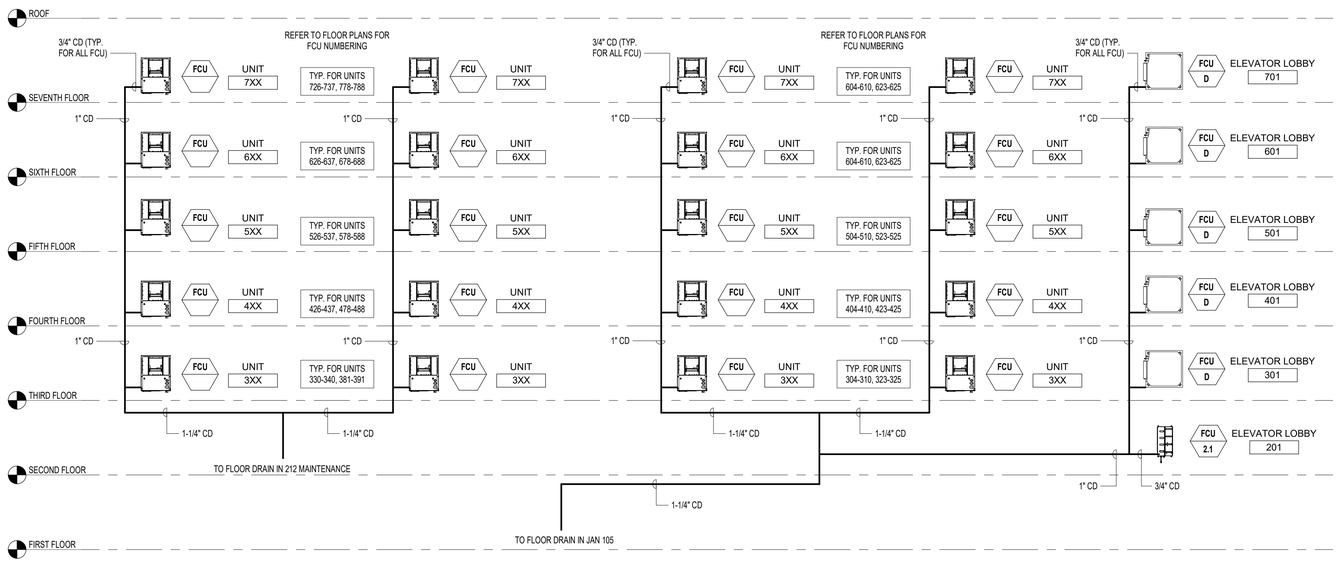


2 **CONDENSATE DRAIN RISER DIAGRAM - EAST FCU**
NTS



1 **CONDENSATE DRAIN RISER DIAGRAM - WEST FCU**
NTS

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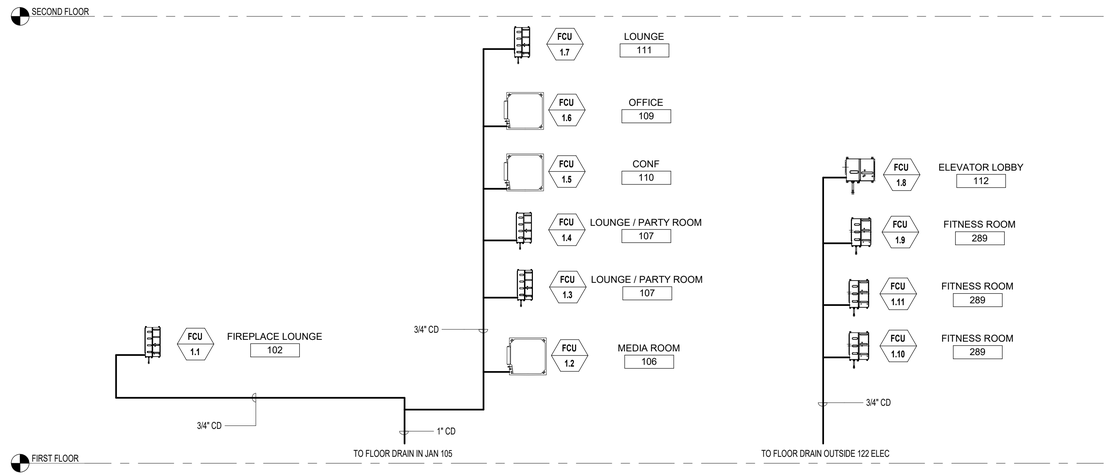
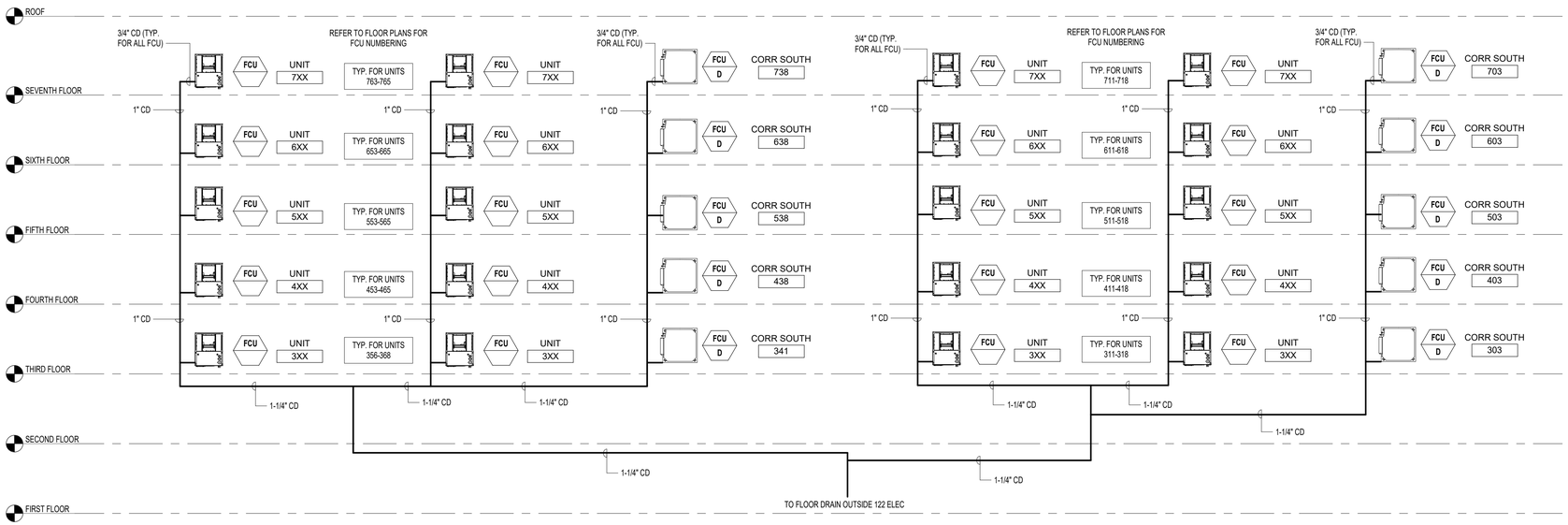


2 **CONDENSATE DRAIN RISER DIAGRAM - FIRST FLOOR RETAIL**
NTS



1 **CONDENSATE DRAIN RISER DIAGRAM - SOUTH FCU**
NTS

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M4.5

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ENERGY RECOVERY VENTILATOR

TAG					EXHAUST		SUPPLY		SUMMER OUTDOOR AIR				WINTER OUTDOOR AIR				RETURN AIR				EFFECTIVENESS				ELECTRICAL DATA						
									ENTERING		LEAVING		ENTERING		LEAVING		SUMMER ENTERING		WINTER ENTERING		SUMMER		WINTER								
ABBR.	#	LOCATION	AREA SERVED	TYPE	FLOW RATE (CFM)	ESP (IN. W.C.)	FLOW RATE (CFM)	ESP (IN. W.C.)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	SENSIBLE	LATENT	SENSIBLE	LATENT	MCA	MOCP	VOLTS	PH	MANUFACTURER	MODEL	REMARKS
ERV	2.1	SECOND FLOOR	AMENITY & LOBBY	WHEEL	1600		1600		95	72.9	77.7	66.1	-10	-12.4			75	62.9	70	50.6					8.73	15	480 V	3	SWEGON	GOLD14ARX	1-7
ERV	3.1	THIRD FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	3.2	MECH 321	THIRD FLOOR SOUTHWEST	WHEEL	1000		1000		95	72.9	77.7	65.8	-10	-12.4	59.1	44.9	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	3.3	THIRD FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	3.4	THIRD FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	4.1	FOURTH FLOOR	FOURTH FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	4.2	FOURTH FLOOR	FOURTH FLOOR	WHEEL	1110		1110		95	72.9	77.7	66.1	-10	-12.4	59.2	44.9	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	4.3	FOURTH FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	4.4	FOURTH FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	5.1	FIFTH FLOOR	FIFTH FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	5.2	FIFTH FLOOR	FIFTH FLOOR	WHEEL	1110		1110		95	72.9	77.7	66.1	-10	-12.4	59.2	44.9	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	5.3	FIFTH FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	5.4	FIFTH FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	6.1	SIXTH FLOOR	SIXTH FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	6.2	SIXTH FLOOR	SIXTH FLOOR	WHEEL	1110		1110		95	72.9	77.7	66.1	-10	-12.4	59.2	44.9	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	6.3	SIXTH FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	6.4	SIXTH FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	7.1	SEVENTH FLOOR	SEVENTH FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	7.2	SEVENTH FLOOR	SEVENTH FLOOR	WHEEL	1110		1110		95	72.9	77.7	66.1	-10	-12.4	59.2	44.9	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	7.3	SEVENTH FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7
ERV	7.4	SEVENTH FLOOR	THIRD FLOOR	WHEEL	1160		1160		95	72.9	77.7	66.1	-10	-12.4	59.1	44.1	75	62.9	70	50.6	86.4%	66%	86.5%	83.5%	8.73	15	480 V	3	SWEGON	GOLD12ARX	1-7

1 PROVIDE DISCONNECT
2 MOUNT ON NEOPRENE WAFFLE PAD
3 MERV 13 FINAL FILTER ON OA
4 WIFI CONNECTIVITY
5 UNIT MOUNTED CONTROL TOUCH SCREEN
6 PROVIDE MERV 3 OR WASHABLE MESH FILTER FOR TRAPPING GREASE ON EXHAUST AIR STREAM
7 CONSTANT VOLUME

FANS

TAG					F.S.P.	FAN DATA				ELECTRICAL DATA					UNIT WEIGHT				
ABBR.	#	LOCATION	SYSTEM SERVED	CFM	IN WC	TYPE	CLASS	RPM	DRIVE	BHP	HP	VOLTS	PH	HZ	(LBS)	MANUFACTURER	MODEL	REMARKS
EF	1.1	GARAGE - L1	GARAGE - L1	21800	0.25	SIDEWALL DIRECT DRIVE		506	DIRECT	2.39	3	460 V	3	60	429	GREENHECK	AER-E48C-1225-C-VGD30	1,2,5
EF	1.2	GARAGE - L1	GARAGE - L1	21800	0.25	SIDEWALL DIRECT DRIVE		506	DIRECT	2.39	3	460 V	3	60	429	GREENHECK	AER-E48C-1225-C-VGD30	1,2,5
EF	1.3	GARAGE - L1	GARAGE - L1	21800	0.25	SIDEWALL DIRECT DRIVE		506	DIRECT	2.39	3	460 V	3	60	429	GREENHECK	AER-E48C-1225-C-VGD30	1,2,5
EF	2.1	GARAGE - L2	GARAGE - L2	25300	0.25	SIDEWALL DIRECT DRIVE		554	DIRECT	3.15	3	460 V	3	60	429	GREENHECK	AER-E48C-1225-C-VGD30	1,2,5
EF	2.2	GARAGE - L2	GARAGE - L2	25300	0.25	SIDEWALL DIRECT DRIVE		554	DIRECT	3.15	3	460 V	3	60	429	GREENHECK	AER-E48C-1225-C-VGD30	1,2,5
EF	2.3	GARAGE - L2	GARAGE - L2	25300	0.25	SIDEWALL DIRECT DRIVE		554	DIRECT	3.15	3	460 V	3	60	429	GREENHECK	AER-E48C-1225-C-VGD30	1,2,5
EF	2.4	BIKE STORAGE	BIKE STORAGE	445	0.25	CEILING		1070	DIRECT	0	224 W	115 V	1	60	31	GREENHECK	SP-A510	1
EF	2.5	DOG WASH	DOG WASH	200	0.25	CEILING		900	DIRECT	0	53 W	115 V	1	60	24	GREENHECK	SP-A200	1
EF	2.6	POOL EQUIP RM	POOL EQUIPMENT ROOM	150	0.58	INLINE		1040	DIRECT	0.03	179 W	120 V	1	60	11	GREENHECK	CSP-B200	1
EF	3.1	AMENITY SPACE	AMENITY SPACE	280	0.8	INLINE		1350	DIRECT	0.06	119 W	120 V	1	60	23	GREENHECK	CSP-A390	1
EF	8.1	ROOF	RESIDENTIAL FLOORS	5800	1.25	CENTRIFUGAL ROOF EXHAUST		943	DIRECT	2.2	5	480 V	3	60	225	GREENHECK	G-240-VG	1,2,3
EF	8.2	ROOF	RESIDENTIAL FLOORS	5630	1.25	CENTRIFUGAL ROOF EXHAUST		932	DIRECT	2.1	5	480 V	3	60	225	GREENHECK	G-240-VG	1,2,3
EF	8.3	ROOF	RESIDENTIAL FLOORS	5800	1.25	CENTRIFUGAL ROOF EXHAUST		943	DIRECT	2.2	5	480 V	3	60	225	GREENHECK	G-240-VG	1,2,3
EF	8.4	ROOF	RESIDENTIAL FLOORS	5800	1.25	CENTRIFUGAL ROOF EXHAUST		943	DIRECT	2.2	5	480 V	3	60	225	GREENHECK	G-240-VG	1,2,3
EF	8.5	ROOF	TRASH EXHAUST	2000	1.25	CENTRIFUGAL ROOF EXHAUST		1725	DIRECT	0.58	3/4	480 V	3	60	63	GREENHECK	G-133-A	1,2,3
SF	8.1	ROOF	RESIDENTIAL FLOORS	5800	1.25	LOUVERED ROOF SUPPLY		914	BELT	3.4	5	480 V	3	60	338	GREENHECK	RSFP-150-50	1,2,3
SF	8.2	ROOF	RESIDENTIAL FLOORS	5630	1.25	LOUVERED ROOF SUPPLY		904	BELT	3.21	5	480 V	3	60	392	GREENHECK	RSFP-150-50	1,2,3
SF	8.3	ROOF	RESIDENTIAL FLOORS	5800	1.25	LOUVERED ROOF SUPPLY		914	BELT	3.4	5	480 V	3	60	338	GREENHECK	RSFP-150-50	1,2,3
SF	8.4	ROOF	RESIDENTIAL FLOORS	5800	1.25	LOUVERED ROOF SUPPLY		914	BELT	3.4	5	480 V	3	60	338	GREENHECK	RSFP-150-50	1,2,3
SPF	8.1	ROOF	NORTH STAIR	7000	1	LOUVERED ROOF SUPPLY		932	BELT	4.53	5	480 V	3	60	392	GREENHECK	RSFP-150-50	1,4
SPF	8.2	ROOF	WEST STAIR	7000	1	LOUVERED ROOF SUPPLY		932	BELT	4.53	5	480 V	3	60	392	GREENHECK	RSFP-150-50	1,4
SPF	8.3	ROOF	SOUTH STAIR	7000	1	LOUVERED ROOF SUPPLY		932	BELT	4.53	5	480 V	3	60	392	GREENHECK	RSFP-150-50	1,4
SPF	8.4	ROOF	SOUTH STAIR	7000	1	LOUVERED ROOF SUPPLY		932	BELT	4.53	5	480 V	3	60	392	GREENHECK	RSFP-150-50	1,4

1 PROVIDE ELECTRICAL DISCONNECT
2 PROVIDE GRAVITY BACKDRAFT DAMPER
3 PROVIDE 14" ROOF CURB
4 VFD
5 FAN HOUSING WITH OSHA GUARD

ELECTRIC CABINET/UNIT HEATER

TAG		LOCATION		MOUNTING			DISCHARGE		THERMOSTAT		FAN/MOTOR DATA			UNIT DATA		HEATING ELEMENT		ELECTRICAL DATA				
ABBR.	#	RM. NAME	RM. NUMBER	SURFACE MOUNTED	RECESSED	SEMI-RECESSED	HORIZONTAL	VERTICAL	REMOTE	UNIT MOUNTED	CFM	QTY.	HP	DIMESIONS (L x W x H)	WEIGHT (LBS)	KW	ΔT (°F)	VOLTAGE	PH	MANUFACTURER	MODEL	REMARKS
CUH	1.1	STAIR	F20	Yes			Yes			Yes	250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	1.2				Yes			Yes	Yes		500	1	-	48"x26"x10"	146	8	51	480 V	3	INDEECO	922U08000U	1-5,7
CUH	1.3	ELEVATOR LOBBY	112	Yes			Yes		Yes		250	1	-	28"x10"x26"	115	3	38	480 V	3	INDEECO	922U03000U	1-5,6
CUH	1.4			Yes			Yes			Yes	250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	1.5	STAIR #3		Yes			Yes			Yes	250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	1.6	STAIR #3		Yes			Yes			Yes	250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	1.7				Yes			Yes	Yes		500	1	-	48"x26"x10"	146	5	51	480 V	3	INDEECO	922U05000U	1-5,7
CUH	1.8	STAIR	F20	Yes			Yes			Yes	250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	1.9			Yes			Yes			Yes	250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	2.1	ELEVATOR LOBBY	201	Yes			Yes			Yes	250	1	-	28"x10"x26"	115	3	38	480 V	3	INDEECO	922U03000U	1,3-6
CUH	2.2			Yes			Yes			Yes	250	1	-	28"x10"x26"	115	3	38	480 V	3	INDEECO	922U03000U	1,3-6
CUH	2.3	Space	317	Yes			Yes			Yes	250	1	-	28"x10"x26"	115	3	38	208 V	1	INDEECO	922U03000C	1,3-6
CUH	3.1				Yes			Yes	Yes		250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1-5,7
CUH	3.3	CORRIDOR	341		Yes			Yes	Yes		250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1-5,7
CUH	7.1			Yes							250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	7.2			Yes							250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	7.3			Yes							250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
CUH	7.4			Yes							250	1	-	28"x10"x26"	115	5	64	480 V	3	INDEECO	922U05000U	1,3-6
EUH	1.1			Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.2			Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.3	TRASH	125	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	37.5	23	480 V	3	INDEECO	240-U4375U	1-4
EUH	1.4	FITNESS ROOM	289	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.5	FITNESS ROOM	289	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.6	RETAIL	288	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.7	RESTAURANT	287	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.8	RESTAURANT	287	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.9	RESTAURANT	287	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.10			Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	1.11	FIRE SUPPRESSION	124	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.1	BIKE STOR / REPAIR	204	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.2	DOG WASH	205	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.3	STORAGE	208	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.4	STOR	211	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.5	POOL EQUIP	209	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.6	MAINTENANCE	212	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.7			Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.8			Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4
EUH	2.X	RESTAURANT	201	Yes			Yes		Yes		350	1	-	12.9"x7.6"x17.7"	25	2.5	23	208 V	1	INDEECO	240-U1025C	1-4

1 DISCONNECT SWITCH
2 PROGRAMMABLE TSTAT w/TAMPER-PROOF GUARD
3 TWO-STAGE HEATING
4 COLOR TO BE SELECTED BY ARCHITECT
5 1" MERV 8 PLEATED FILTER
6 CABINET CONFIGURATION: FRONT INLET; FRONT OUTLET; WALL MOUNTED
7 CABINET CONFIGURATION: FRONT INLET; FRONT OUTLET; CEILING MOUNTED

GAS-FIRED UNIT HEATER

TAG		LOCATION		MBH		GAS PRESSURE MIN./MAX.	AFUE %	(AIR FLOW) CFM	AIR TEMP.		DISCHARGE		FLUE DIA. (IN)	O.A. INTAKE DIA (IN)	ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS
ABBR.	#	RM. NAME	RM. NUMBER	INPUT	OUTPUT				EAT (°F)	LAT (°F)	HORIZONTAL	VERTICAL			FLA	VOLTS	PH			
GUH	A			310	288.3	6" / 7"	93	5400	50	99	Yes		6"	6"	5.45	208 V	1	MODINE	PTC310	1-9

1 DISCONNECT SWITCH
2 TWO STAGE GAS VALVE
3 FINGERPROOF FAN GUARD
4 REMOTE THERMOSTAT w/TAMPER-PROOF GUARD
5 CONCENTRIC VENT KIT
6 SUMMER FAN SWITCH
7 COLOR TO BE SELECTED BY ARCHITECT
8 CONDENSATE NEUTRALIZING KIT
9 PROVIDE 208V TO 115V TRANSFORMER

BASEBOARD HEATER (ELECTRIC)

TAG		LOCATION		ELEMENT DATA					COVER DATA					
ABBR.	#	RM. NAME	RM. NUMBER	WATTS/FT	VOLT	PH	HZ	TOTAL WATTS	LENGTH	HEIGHT	WIDTH	MANUFACTURER	MODEL	REMARKS
EBB	1	BATH	H04	250	208 V	1	60	1250	5'-0"	4 1/2"	3 1/8"	MARKEL	E 91 28 250 ITS PD	ALL
EBB	2	BATH	H07	250	208 V	1	60	1250	5'-0"	4 1/2"	3 1/8"	MARKEL	E 91 28 250 ITS PD	ALL
EBB	3	2-D	361	250	208 V	1	60	1250	5'-0"	4 1/2"	3 1/8"	MARKEL	E 91 28 250 ITS PD	ALL

1 COLOR BY ARCHITECT
2 COORDINATE THERMOSTAT REQUIREMENTS AND UNIT CONTROL WITH 15958 SEQUENCE OF OPERATION SPECIFICATION.

RELIEF HOOD

TAG			CAPACITY (CFM)	MAX S.P. IN. WG	DIM SQ. FT. (SURFACE AREA)	THROAT			DAMPER		OPENING THRU ROOF	MANUFACTURER		
ABBR.	#	LOCATION				SIZE (IN)	VELOCITY	CURB CAP	MOTORIZED	BACKDRAFT			MODEL	REMARKS
RH	1	ROOF			7 SF	36" x 36"		Yes	Yes		36" x 36"	GREENHECK	GSRR-36	1-4
RH	2	ROOF			7 SF	36" x 36"		Yes	Yes		36" x 36"	GREENHECK	GSRR-36	1-4

1 ALL MOTORIZED DAMPERS TO BE PROVIDED BT CONTROLS CONTRACTORS PER SPECIFICATIONS.
2 INSECT SCREEN
3 INSULATED
4 PROVIDE ROOF CURB

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

M5.0

JONES & JONES ASSOCIATES / ARCHITECTS PC

VRF CONDENSING UNIT

TAG				EQUIPMENT TYPE		COOLING			HEATING					ELECTRICAL DATA											
														MODULE A		MODULE B		MODULE C							
ABBR.	#	LOCATION	# OF MODULES	HEAT PUMP	HEAT RECOVERY	AMBIENT TEMP (°F)	CAPACITY (BTU/H)	EER	AMBIENT TEMP (°F)	CAPACITY (BTU/H)	COP @ 47°F	REFRIGERANT TYPE	# OF COMPRESSORS PER MODULE	MCA	MOCP	MCA	MOCP	MCA	MOCP	VOLTS	PH	WxHxD	WEIGHT PER MODULE (LBS)	MANUFACTURER	Model	REMARKS
CU	1.1	L1 PARKING GARAGE	1	Yes		92	48000		50			R-410A	1	27	30					208 V	1			DAIKIN	RMXS48LVJU	1-6
CU	2.1	L2 PARKING GARAGE	1		Yes	95	76185	14.6	50	106185	4.23	R-410A	2	21.1	25					480 V	3	48.9" x 66.7" x 30.2"	727	DAIKIN	REYQ96XAYDA	1-6
CU	2.2	L2 PARKING GARAGE	2		Yes	95	327275	9.9/9.5	50	459261	3.5/3.2	R-410A	2	31.1	40	31.1	40			480 V	3	48.9" x 66.7" x 30.2" / 48.9" x 66.7" x 30.2"	793	DAIKIN	REYQ336XAYDA	1-6
CU	A1	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A2	ROOF	1	Yes		95	92,849	14.9	-10	91,139	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A3	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A4	ROOF	1	Yes		95	92,849	14.9	-10	91,139	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A5	ROOF	1	Yes		95	92,849	14.9	-10	91,139	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A6	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A7	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A8	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A9	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A10	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A11	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A12	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	A13	ROOF	1	Yes		95	77,160	14.9	-10	90,361	4.29	R-410A	2	39.8	45					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ96XAYDA	1-6
CU	B1	ROOF	1	Yes		95	116,049	13.5	-10	108.794	4.05	R-410A	2	43.3	50					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ120XAYDA	1-6
CU	B2	ROOF	1	Yes		95	96,389	13.5	-10	107,960	4.05	R-410A	2	43.3	50					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ120XAYDA	1-6
CU	B3	ROOF	1	Yes		95	116,049	13.5	-10	108.794	4.05	R-410A	2	43.3	50					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ120XAYDA	1-6
CU	B4	ROOF	1	Yes		95	116,049	13.5	-10	108.794	4.05	R-410A	2	43.3	50					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ120XAYDA	1-6
CU	B5	ROOF	1	Yes		95	116,049	13.5	-10	108.794	4.05	R-410A	2	43.3	50					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ120XAYDA	1-6
CU	B6	ROOF	1	Yes		95	116,049	13.5	-10	108.794	4.05	R-410A	2	43.3	50					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ120XAYDA	1-6
CU	B7	ROOF	1	Yes		95	116,049	13.5	-10	108.794	4.05	R-410A	2	43.3	50					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ120XAYDA	1-6
CU	B7	ROOF	1	Yes		95	116,049	13.5	-10	108.794	4.05	R-410A	2	43.3	50					480 V	3	48.9" x 66.7" x 30.2"	794	DAIKIN	RXYQ120XAYDA	1-6
CU	C1	ROOF	2	Yes		95	114,493	12.7	-10	133,466	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C2	ROOF	2	Yes		95	114,567	12.7	-10	133,466	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C3	ROOF	2	Yes		95	114,493	12.7	-10	133,466	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C4	ROOF	2	Yes		95	137,865	12.7	-10	134,575	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C5	ROOF	2	Yes		95	114,567	12.7	-10	133,466	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C6	ROOF	2	Yes		95	115,262	12.7	-10	134,649	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C7	ROOF	2	Yes		95	115,068	12.7	-10	134,317	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C8	ROOF	2	Yes		95	114,567	12.7	-10	133,466	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C9	ROOF	2	Yes		95	139,715	12.7	-10	137,228	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C10	ROOF	2	Yes		95	137,865	12.7	-10	134,575	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C11	ROOF	2	Yes		95	114,567	12.7	-10	133,466	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C12	ROOF	2	Yes		95	114,567	12.7	-10	133,466	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	C13	ROOF	2	Yes		95	114,567	12.7	-10	133,466	3.86	R-410A	2	28.1	35	28.1	35			480 V	3	36.7 x 66.7 x 30.2 / 36.7 x 66.7 x 30.2	1456	DAIKIN	RXYQ144XAYDA	1-6
CU	D1	ROOF	2	Yes		95	168,016	12.3	-10	183,830	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	710	DAIKIN	RXYQ168XAYDA	1-6
CU	E1	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	E2	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	E3	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	E4	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	E5	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	E6	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	E7	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	E8	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	E9	ROOF	2	Yes		95	152,159	12.3	-10	181,656	3.9	R-410A	2	39.8	45	39.8	45			480 V	3	48.9 X 66.7 x 30.2 / 48.9 x 66.7 30.2	794	DAIKIN	RXYQ192TAYDA	1-6
CU	F1	ROOF	1	Yes		95	66,475	15.1	-10	68,132	4.37	R-410A	2	28.1	35					480 V	3	36.7" x 66.7" x 30.2"	730	DAIKIN	RXYQ72TAYDA	1-6
CU	F2	ROOF	1	Yes		95	66,475	15.1	-10	68,132	4.37	R-410A	2	28.1	35					480 V	3	36.7" x 66.7" x 30.2"	730	DAIKIN	RXYQ72TAYDA	1-6
CU	F3	ROOF	1	Yes		95	66,475	15.1	-10	68,132	4.37	R-410A	2	28.1	35					480 V	3	36.7" x 66.7" x 30.2"	730	DAIKIN	RXYQ72TAYDA	1-6
CU	F4	ROOF	1	Yes		95	66,475	15.1	-10	68,132	4.37	R-410A	2	28.1	35					480 V	3	36.7" x 66.7" x 30.2"	730	DAIKIN	RXYQ72TAYDA	1-6
CU	F5	ROOF	1	Yes		95	66,475	15.1	-10	68,132	4.37	R-410A	2	28.1	35					480 V	3	36.7" x 66.7" x 30.2"	730	DAIKIN	RXYQ72TAYDA	1-6
CU	F6	ROOF	1	Yes		95	66,475	15.1	-10	68,132	4.37	R-410A	2	28.1	35					480 V	3	36.7" x 66.7" x 30.2"	730	DAIKIN	RXYQ72TAYDA	1-6
CU	F6	ROOF	1	Yes		95	66,475	15.1	-10	68,132	4.37	R-410A	2	28.1	35					480 V	3	36.7" x 66.7" x 30.2"	730	DAIKIN	RXYQ72TAYDA	1-6

1 PROVIDE UNIT WITH LOW AMBIENT OPERATION DOWN TO -20F
2 MANUFACTURER TO ENSURE NO LOSS OF CAPACITY UNDER ALL OUTDOOR CONDITIONS DURNING DEFROST CYCLE
3 PRESSURE RELIEF VALVE ON HIGH SIDE OF SYSTEM
4 ISOLATION VALVES AT EACH UNIT
5 MOUNT ON EQUIPMENT RAILS
6 PROVIDE TOUCH SCREEN PANEL w/BACNET INTERFACE

VRF FAN COIL UNIT

TAG				FED FROM				SOUND PRESSURE LEVEL (dBA)	FAN MAX AIR FLOW (CFM)	ESP (IN)	COOLING MODE				HEATING MODE			DIMENSIONS			ELECTRICAL DATA			UNIT WEIGHT (LBS)			
											EAT		CAPACITY (BTU/H)		EAT												
ABBR.	#	AREA SERVED	INDOOR UNIT TYPE	OUTDOOR UNIT	ZONE SELECTOR	CONDENSATE PUMP	FILTER				DB (°F)	WB (°F)	(TOTAL)	(SENSIBLE)	DB (°F)	WB (°F)	CAPACITY (BTU/H)	HEIGHT	WIDTH	DEPTH	MCA	VOLTS	PH		MANUFACTURER	MODEL	REMARKS
AC	1	MAIN ELECTRICAL ROOM	WALL MOUNTED CASSETTE	CU-1.1			WASHABLE						24000								0.7	208 V	1		DAIKIN	FTXS24LVJU	1,3-6
AC	2	ATS ROOM	WALL MOUNTED CASSETTE	CU-1.1			WASHABLE						24000								0.7	208 V	1		DAIKIN	FTXS24LVJU	1,3-6
FCU	1.1	WE WORK - 101	HORIZONTAL DUCTED	CU-2.2	BSB-2.1	INTEGRAL	FIELD SUPPLIED	42	1377	0.8	75	62.5	40432	31158	70	-	53978	11 3/4"	4'-7 1/8"	2'-3 5/8"	3.4	208 V	1	101.4	DAIKIN	FXMQ48PBVJU	1-3
FCU	1.2	MEDIA ROOM - 106	CASSETTE	CU-2.2	BSB-2.1	INTEGRAL	WASHABLE	49	353		75	62.5	10236	7083	70	-	13642	1'-10 5/8"	1'-10 5/8"	10 1/4"	0.4	208 V	1	36.4	DAIKIN	FXZQ12TAVJU	
FCU	1.3	LOUNGE/PARTY ROOM - 107	HORIZONTAL DUCTED	CU-2.2	BSB-2.1	INTEGRAL	FIELD SUPPLIED	42	1377	0.8	75	62.5	40432	31158	70	-	53978	11 3/4"	4'-7 1/8"	2'-3 5/8"	3.4	208 V	1	101.4	DAIKIN	FXMQ48PBVJU	1-3
FCU	1.4	LOUNGE/PARTY ROOM - 107	HORIZONTAL DUCTED	CU-2.2	BSB-2.1	INTEGRAL	FIELD SUPPLIED	42	1377	0.8	75	62.5	40432	31158	70	-	53978	11 3/4"	4'-7 1/8"	2'-3 5/8"	3.4	208 V	1	101.4	DAIKIN	FXMQ48PBVJU	1-3
FCU	1.5	CONF - 110	CASSETTE	CU-2.2	BSB-2.1	INTEGRAL	WASHABLE	51	300		75	62.5	4947	4391	70	-	6483	1'-10 5/8"	1'-10 5/8"	10 1/4"	0.3	208 V	1	35.3	DAIKIN	FXZQ05TAVJU	1-3
FCU	1.6	OFFICE - 109	CASSETTE	CU-2.2	BSB-2.1	INTEGRAL	WASHABLE	51	300		75	62.5	4947	4391	70	-	6483	1'-10 5/8"	1'-10 5/8"	10 1/4"	0.3	208 V	1	35.3	DAIKIN	FXZQ05TAVJU	1-3
FCU	1.7	LOUNGE - 111	HORIZONTAL DUCTED	CU-2.2	BSB-2.1	INTEGRAL	FIELD SUPPLIED	65	1094	0.8	75	62.5	25266	20641	70	-	33984	11 3/4"	4'-7 1/8"	2'-3 5/8"	2.8	208 V	1	101.4	DAIKIN	FXMQ30PBVJU	1-3
FCU	1.8	ELEVATOR LOBBY - 112	HORIZONTAL DUCTED	CU-2.2	BSB-2.1	INTEGRAL	FIELD SUPPLIED	56	317	0.4	75	62.5	6312	5652	70	-	8496	11 3/4"	1'-9 3/4"	2'-3 5/8"	0.6	208 V	1	55.1	DAIKIN	FXMQ07PBVJU	1-3
FCU	1.9	FITNESS ROOM - 289	HORIZONTAL DUCTED	CU-2.2	BSB-2.2	INTEGRAL	FIELD SUPPLIED	64	688	0.8	75	62.5	20233	16404	70	-	26989	11 3/4"	3'-3 3/8"	2'-3 5/8"	1.8	208 V	1	79.4	DAIKIN	FXMQ24PBVJU	1-3
FCU	1.10	FITNESS ROOM - 289	HORIZONTAL DUCTED	CU-2.2	BSB-2.2	INTEGRAL	FIELD SUPPLIED	64	688	0.8	75	62.5	20233	16404	70	-	26989	11 3/4"	3'-3 3/8"	2'-3 5/8"	1.8	208 V	1	79.4	DAIKIN	FXMQ24PBVJU	1-3
FCU	1.11	FITNESS ROOM - 289	HORIZONTAL DUCTED	CU-2.2	BSB-2.2	INTEGRAL	FIELD SUPPLIED	64	688	0.8	75	62.5	20233	16404	70	-	26989	11 3/4"	3'-3 3/8"	2'-3 5/8"	1.8	208 V	1	79.4	DAIKIN	FXMQ24PBVJU	1-3
FCU	2.1	ELEVATOR LOBBY - 201	HORIZONTAL DUCTED	CU-2.2	BSB-2.3	INTEGRAL	FIELD SUPPLIED	65	1130	0.8	75	62.5	30316	24862	70	-	39989	11 3/4"	4'-7 1/8"	2'-3 5/8"	2.9	208 V	1	101.4	DAIKIN	FXMQ36PBVJU	1-3
FCU	3.1	COMMUNITY ROOM 327	VERTICAL AHU	CU-2.2	BSB-2.3		FIELD SUPPLIED		800	0.9	75	62.5	15149	13650	70	-	19994	3'-9"	1'-5 1/2"	1'-9"	4.9	208 V	1	115	DAIKIN	FXTQ18TAVJUA	1-3
FCU	3.2	COMMUNITY ROOM 325	VERTICAL AHU	CU-2.2	BSB-2.3		FIELD SUPPLIED		800	0.9	75	62.5	15149	13650	70	-	19994	3'-9"	1'-5 1/2"	1'-9"	4.9	208 V	1	115	DAIKIN	FXTQ18TAVJUA	1-3
FCU	A	RESIDENCES	VERTICAL AHU	REFER TO M4.1	-		FIELD SUPPLIED		400	0.9	75	62.5	10100	8697	70	-	13499	3'-9"	1'-5 1/2"	1'-9"	4.9	208 V	1	115	DAIKIN	FXTQ12AVJUA	1-3
FCU	B	RESIDENCES	VERTICAL AHU	REFER TO M4.1	-		FIELD SUPPLIED		600	0.9	75	62.5	15149	11085	70	-	19999	3'-9"	1'-5 1/2"	1'-9"	4.9	208 V	1	115	DAIKIN	FXTQ18TAVJUA	1-3
FCU	C	RESIDENCES	VERTICAL AHU	REFER TO M4.1	-		FIELD SUPPLIED		800	0.9	75	62.5	20249	15265	70	-	26999	3'-9"	1'-5 1/2"	1'-9"	4.9	208 V	1	115	DAIKIN	FXTQ24TAVJUA	1-3
FCU	D	CORRIDOR & LOBBY	2'x2' CEILING CASSETTE	REFER TO M4.1	-	INTEGRAL	WASHABLE	43	511	0	75	62.5	15183	11471	70	-	20121	10 1/4"	1'-10 5/8"	1'-10 5/8"	0.6	208 V	1	41.9	DAIKIN	FXZQ18TAVJU	1-3

1 PRESSURE RELIEF VALVE ON HIGH SIDE OF SYSTEM.
2 PROVIDE EACH FAN COIL UNIT WITH WALL MOUNTED REMOTE CONTROLLER COMPATIBLE w/VIRTUAL ASSISTANT DEVICES AND WEB-APP CAPABILITY
3 PROVIDE INTEGRAL DISCONNECT SWTICH
4 PROVIDE PROGRAMMABLE WALL MOUNTED CONTROLLER
5 COOLING ONLY
6 PIPING CONNECTIONS FROM BACK OF UNIT

DIFFUSERS, REGISTERS AND GRILLES

TAG	SYSTEM TYPE	DESCRIPTION	SIZE	DAMPER	MATERIAL/FINISH	MANUFACTURER	MODEL	REMARKS
A1	SUPPLY	STEEL AEROBLADE DOUBLE DEFLECTION SUPPLY GRILLE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION	SEE PLANS	OBD	STEEL	TITUS	272RL	1,3
A2	SUPPLY	ALUMINUM AEROBLADE DOUBLE DEFLECTION SUPPLY GRILLE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION	SEE PLANS	OBD	ALUMINUM	TITUS	272FL	1
B	EXHAUST	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	SEE PLANS	OBD	STEEL	TITUS	350RL	1,3,4
C	RETURN / RECIR	STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	SEE PLANS	OBD	STEEL	TITUS	350RL	1
E	SUPPLY	2'x2' STEEL PLAQUE FACE DIFFUSER	SEE PLANS		STEEL	TITUS	OMNI	1, 2
F	EXHAUST	2'x2' STEEL PERFORATED RETURN DIFFUSER	SEE PLANS	OBD	STEEL	TITUS	PAR	1,3

1 ARCHITECT TO SPECIFY FINISH AND FINAL CEILING LOCATIONS
2 PROVIDE VOLUME DAMPERS AT BRANCH TAKEOFFS
3 PROVIDE RADIATION DAMPER FOR CEILING MOUNTED APPLICATIONS
4 PROVIDE MERV 3 OR WASHABLE MESH FILTER FOR TRAPPING GREASE ON KITCHEN EXHAUST AIR STREAM

VRF ZONE SELECTOR

TAG		NUMBER OF PORTS	ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS
ABBR.	#		FLA	VOLTS	PH			
BSB	2.1	8	0.64	208	1	DAIKIN	BSF8Q54TVJ	
BSB	2.2	6	0.48	208	1	DAIKIN	BSF6Q54TVJU	
BSB	2.3	6	0.48	208	1	DAIKIN	BSF6Q54TVJU	

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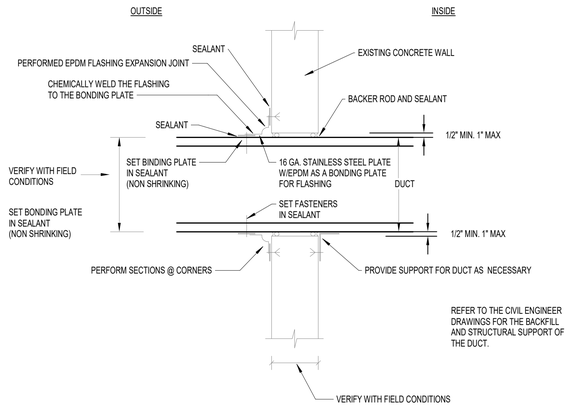
GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

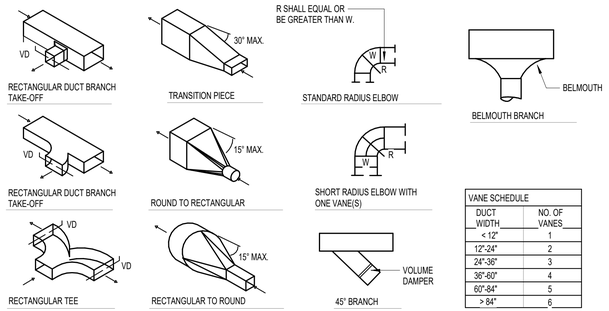
PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

M5.1

JONES & JONES ASSOCIATES / ARCHITECTS PC



10 WALL PENETRATION
NTS



VANE SCHEDULE	
DUCT WIDTH	NO. OF VANES
< 12"	1
12"-24"	2
24"-36"	3
36"-60"	4
60"-84"	5
> 84"	6

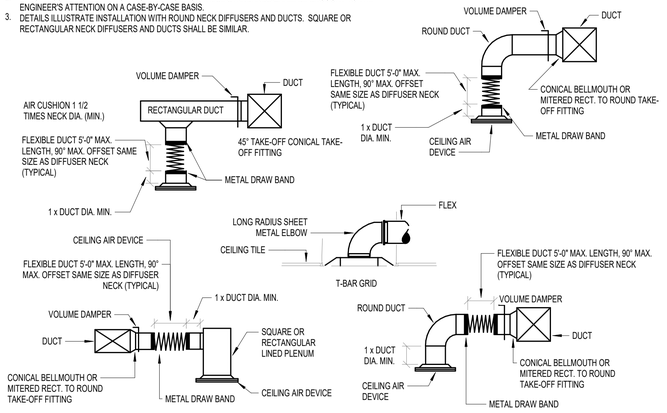
NOTES:

1. PROVIDE STANDARD RADIUS ELBOWS WHEN POSSIBLE - SHORT RADIUS WHERE REQUIRED.
2. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES SHALL BE CONSTRUCTED, SUPPORTED, & FASTENED AS RECOMMENDED BY SMACNA.
3. NO SQUARE OR RECTANGULAR HEEL ELBOWS SHALL BE ALLOWED, WITHOUT TURNING VANES.
4. NO SPIN-IN CONNECTIONS SHALL BE ALLOWED.
5. FOR RADIUS ELBOWS, IF R IS LESS THAN W, THEN FULL ARC TURNING VANE(S) SHALL BE PROVIDED, SEE THE VANE SCHEDULE. THE INSIDE BEND MAY BE SQUARE FOR W > 12",

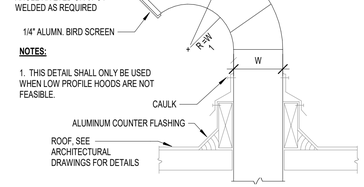
9 TYPICAL DUCT
NTS

NOTES:

1. SPIN COLLARS SHALL NOT BE PERMITTED.
2. SPECIAL CONDITIONS THAT CANNOT MEET ONE OF THESE STANDARDS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION ON A CASE-BY-CASE BASIS.
3. DETAILS ILLUSTRATE INSTALLATION WITH ROUND NECK DIFFUSERS AND DUCTS. SQUARE OR RECTANGULAR NECK DIFFUSERS AND DUCTS SHALL BE SIMILAR.



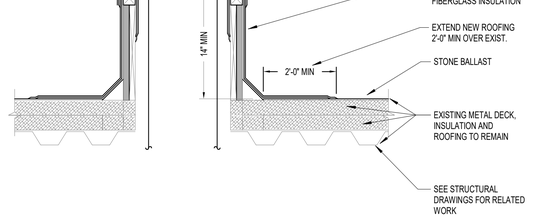
8 TYPICAL AIR SERVICE DEVICE (INLET/OUTLET) INSTALLATION
NTS



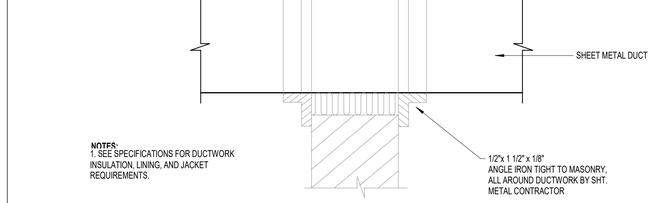
NOTES:

1. THIS DETAIL SHALL ONLY BE USED WHEN LOW PROFILE HOODS ARE NOT FEASIBLE.

7 TYPICAL GOOSENECK DETAIL
NTS

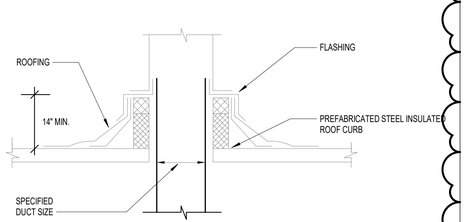


6 ROOF CURB
NTS

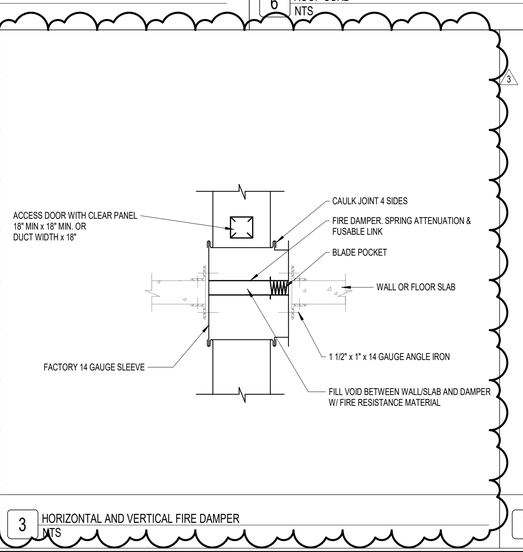


NOTES:
1. SEE SPECIFICATIONS FOR DUCTWORK INSULATION, LINING, AND JACKET REQUIREMENTS.

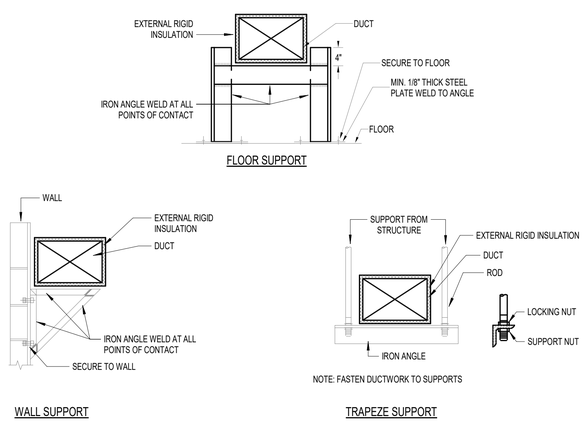
5 ACOUSTICAL CAULKING OF DUCT PENETRATION
NTS



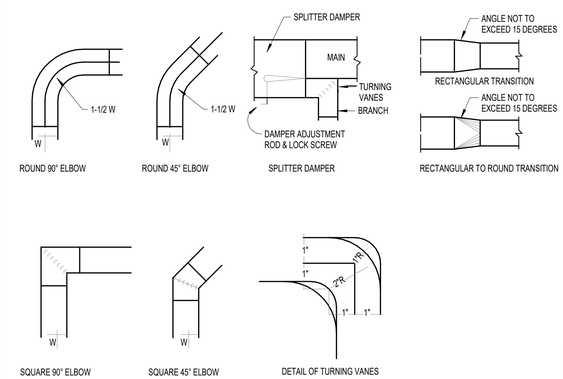
4 DUCT PENETRATING OF ROOF AND COUNTER FLASHING
NTS



3 HORIZONTAL AND VERTICAL FIRE DAMPER
NTS



2 INTERIOR DUCTWORK SUPPORT
NTS



1 LOW VELOCITY DUCT LAYOUT
NTS

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ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

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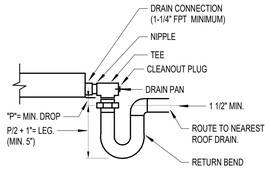
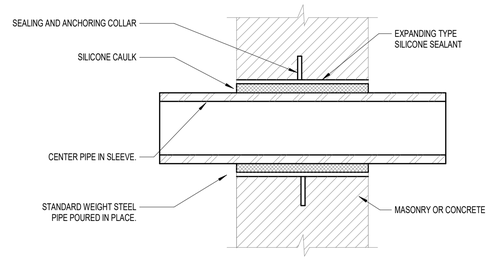


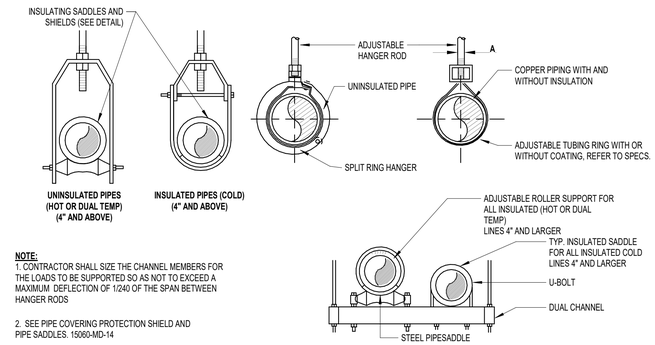
P= NEGATIVE INTERNAL STATIC PRESSURE AT FAN INLET
P= 4"

1. PIPING TO BE SCHEDULE 40 GALVANIZED

9 ROOF MOUNTED AHU CONDENSATE DRIP PAN SEALENT PIPING
NTS



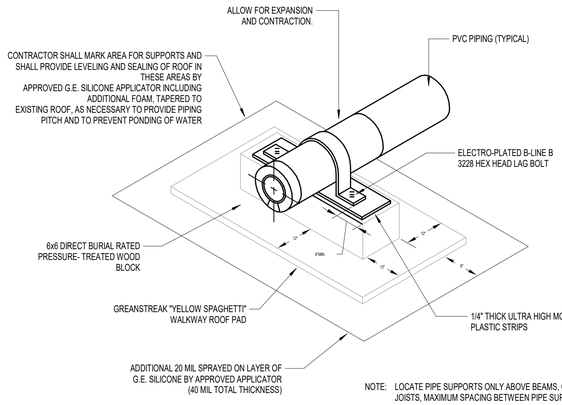
8 PIPE THRU EXTERIOR WALL ABOVE GRADE
NTS



NOTE:
1. CONTRACTOR SHALL SIZE THE CHANNEL MEMBERS FOR THE LOADS TO BE SUPPORTED SO AS NOT TO EXCEED A MAXIMUM DEFLECTION OF 1/240 OF THE SPAN BETWEEN HANGER RODS

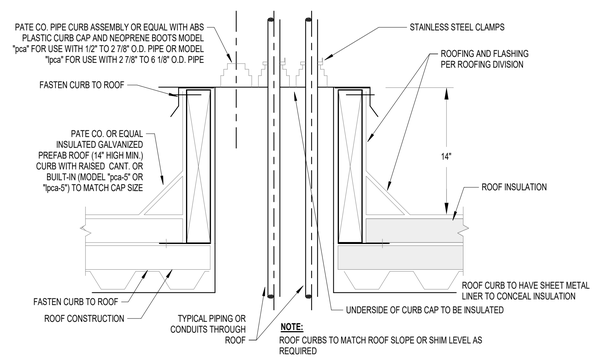
2. SEE PIPE COVERING PROTECTION SHIELD AND PIPE SADDLES. 15060-MD-14

7 PIPE SUPPORT AND HANGER
NTS



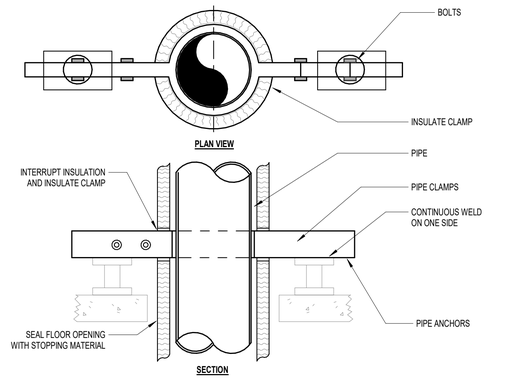
NOTE: LOCATE PIPE SUPPORTS ONLY ABOVE BEAMS, GRIDERS, AND BAR JOISTS, MAXIMUM SPACING BETWEEN PIPE SUPPORTS SHALL BE 12'-0".

6 PIPE SUPPORT
NTS



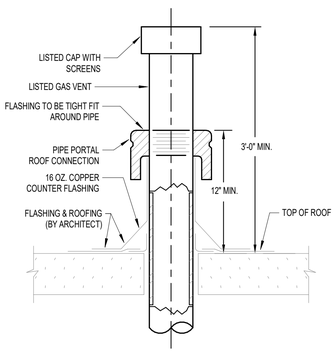
NOTE:
ROOF CURBS TO MATCH ROOF SLOPE OR SHIM LEVEL AS REQUIRED

5 PIPE PORTAL DETAIL
NTS

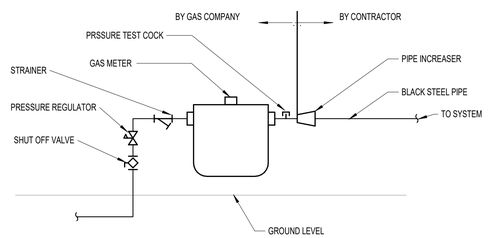


NOTES:
1. FOR FLOOR SUPPORT APPLICATION DO NOT ANCHOR PIPE.
2. SIMILAR FOR NON-INSULATED PIPES.

4 PIPE ANCHOR/FLOOR SUPPORT
NTS

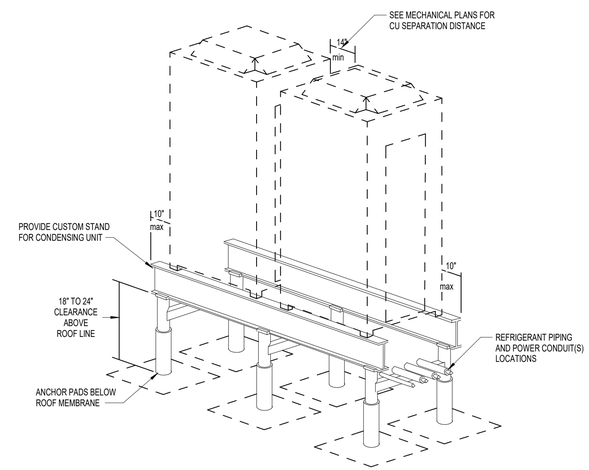


3 NATURAL GAS THRU ROOF
NTS



NOTE:
VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. GAS COMPANY SHALL EXCAVATE, BACKFILL, AND REPAIR PAVING AND SOD FOR GAS SERVICE LINE FROM MAIN TO BUILDING. CONTRACTOR TO PAY ALL GAS COMPANY FEES FOR THIS INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER SPECIFICATIONS. PAINT EXPOSED METAL GAS PIPE, FITTINGS AND ITEMS LIGHT GREEN.

2 GAS SERVICE
NTS



1 CONDENSING UNIT - ROOF TOP
NTS

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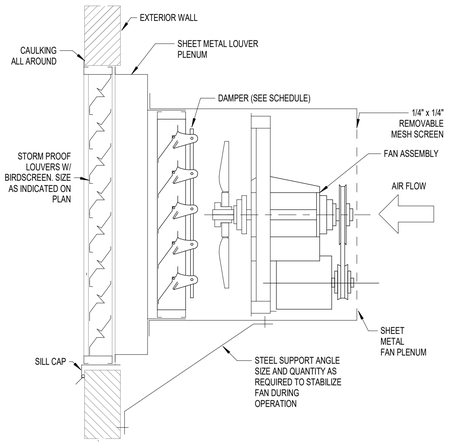
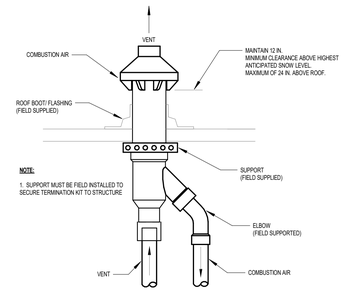
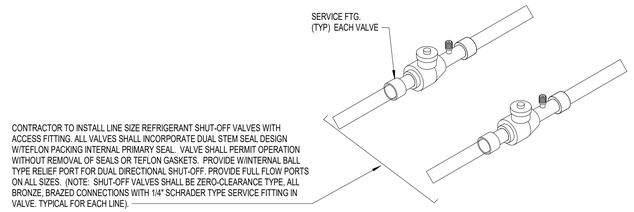


6 TYPICAL SIDEWALL FAN DETAIL
NTS



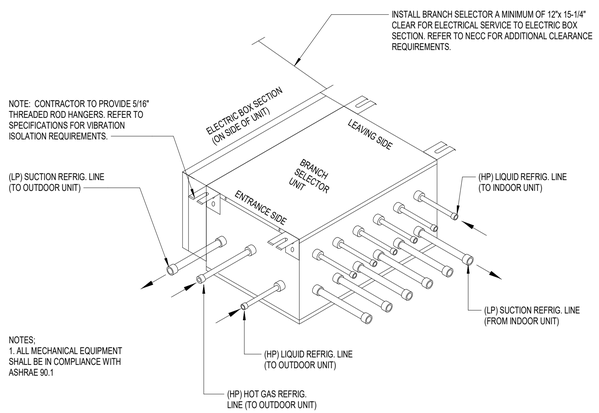
5 CONCENTRIC VENT ROOF INSTALLATION
NTS



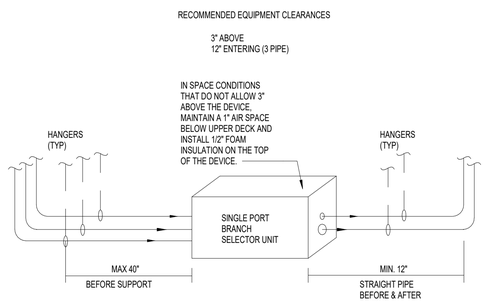
CONTRACTOR TO INSTALL LINE SIZE REFRIGERANT SHUT-OFF VALVES WITH ACCESS FITTING. ALL VALVES SHALL INCORPORATE DUAL STEM SEAL DESIGN W/TEFLON PACKING INTERNAL PRIMARY SEAL. VALVE SHALL PERMIT OPERATION WITHOUT REMOVAL OF SEALS OR TEFLON GASKETS. PROVIDE W/INTERNAL BALL TYPE RELIEF PORT FOR DUAL DIRECTIONAL SHUT-OFF. PROVIDE FULL FLOW PORTS ON ALL SIZES. (NOTE: SHUT-OFF VALVES SHALL BE ZERO-CLEARANCE TYPE, ALL BRONZE, BRAZED CONNECTIONS WITH 1/4" SCHRADER TYPE SERVICE FITTING IN VALVE. TYPICAL FOR EACH LINE).

NOTES:
1. ISOLATION VALVE TO BE RATED TO A MINIMUM OF 550 PSI.
2. ISOLATION VALVES TO BE INCLUDED ON SUCTION AND LIQUID LINE OF EACH INDOOR UNIT.

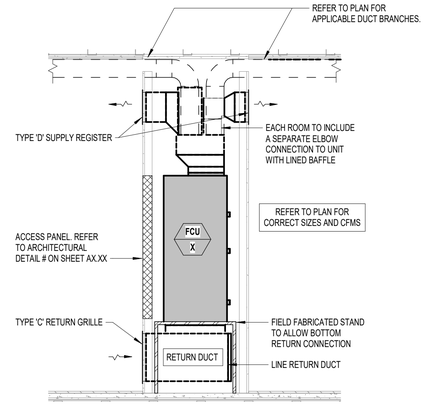
4 TYPICAL REFRIGERANT ISOLATION VALVE DETAIL
NTS



3 TYPICAL MULTI-PORT BRANCH SELECTOR PIPING
NTS



2 RECOMMENDED PIPE CLEARANCES FOR BRANCH SELECTOR UNITS
NTS



1 FAN COIL UNIT CONNECTION DETAIL
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GENERAL BAS NOTES

1. ALL M.700 SERIES DRAWINGS ARE BUILDING AUTOMATION SYSTEM/ TEMPERATURE CONTROLS. REFER TO M.000 FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS. CONTROL DRAWING DETAILS ARE NOT TO SCALE.
2. THE CONTROLS CONTRACTOR SHALL THOROUGHLY REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS (E.G. PLANS, SPECIFICATIONS, ETC.) AS A WHOLE. CONSULTANT DRAWINGS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, REFRIGERATION, FIRE PROTECTION, AND CIVIL ARE SUPPLEMENTARY TO THE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES IDENTIFIED BETWEEN THE CONSULTANTS DRAWINGS WITH A WRITTEN REQUEST FOR CLARIFICATION. WORK INSTALLED IN CONFLICT WITH THE DRAWINGS AND PROJECT MANUAL SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. MOTOR STARTERS MAY NOT BE ADJACENT TO EQUIPMENT SERVED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ACTUAL LOCATION.
4. PROVIDE DEDICATED BAS FLOOR PLAN SHOP DRAWINGS OF ALL DEVICES WHERE LOCATION IS CRITICAL FOR PROPER FUNCTIONALITY. THIS IS INCLUDING BUT NOT LIMITED TO SMOKE DETECTORS, OA SENSORS, PRESSURE SENSORS, IMMERSION TEMP SENSORS, METERS, ETC. SUBMIT FOR FINAL LOCATION APPROVAL BY EOR, AOR, AND/OR OWNER REPRESENTATIVE.
5. IF SHOP DRAWINGS ARE NOT PROVIDED OR DID NOT RECEIVE THE APPROVAL OF THE ARCHITECT AND ENGINEER, IT IS THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR TO MAKE MODIFICATIONS IN THE WORK, INCLUDING REROUTING AS REQUIRED BY INTERFERENCE WITH STRUCTURAL, GENERAL, AND WORK OF OTHER TRADES FOR PROPER EXECUTION OF THE WORK, WITHOUT ADDITIONAL COST TO THE OWNER.
6. CONTRACTORS PERFORMING WORK WITHOUT REVIEWED SUBMITTALS DO SO AT THEIR OWN RISK. IN THE ABSENCE OF REVIEWED SHOP DRAWINGS, SHOULD ANY PORTION OF THE CONTROLS INSTALLATION CONFLICT WITH WORK OF OTHER TRADES, THE CONTRACTOR WILL MAKE ANY MODIFICATIONS NECESSARY TO PROVIDE PROPER EXECUTION OF THE WORK AT NO ADDITIONAL COST TO THE OWNER.
7. CONTROLS CONTRACTOR SHALL WORK CLOSELY WITH BALANCING CONTRACTOR TO MEET FACILITY REQUIREMENTS, PRIOR TO SUBSTANTIAL COMPLETION.
8. ALL CONTROLS CONDUIT AND WIRE SHALL NOT BE INSTALLED IN A WAY THAT PROHIBITS OR LIMITS MECHANICAL MAINTENANCE.
9. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONDUIT, WIRE, AND TRANSFORMERS TO PROPERLY POWER CONTROLLERS, VALVES, ACTUATORS, AND SENSORS (I.E. HUMIDITY, CO2, PRESSURE, ETC.) UNLESS OTHERWISE NOTED.
10. WHERE A DISCREPANCY AMONG SPECIFICATION, SEQUENCE, AND SCHEMATICS OCCURS, THE MOST STRINGENT SHALL APPLY.

AIR DISTRIBUTION SYSTEM GENERAL NOTES

1. CONTROL DRAWINGS DO NOT INCLUDE ALL SHEET METAL DEVICES. REFER TO SYSTEM SCHEMATICS FOR SHEET METAL LAYOUT.
2. DUCT MOUNTED REMOTE DIFFERENTIAL PRESSURE SENSORS SHALL BE LOCATED 2/3 DOWN THE MOST SIGNIFICANT DUCT RUN. IF ANY VAV BOX IS 50 FEET OR GREATER FROM THE SENSOR, A SECOND SENSOR SHALL BE ADDED.
3. PROVIDE LOW LIMIT SENSING LENGTH AS SHOWN IN THE DETAIL PAGE.
4. PROVIDE DAMPER ACTUATORS FOR PROPER TORQUE-TO-SQUARE FEET OPERATION.
5. CONTROLS CONTRACTOR SHALL PROPERLY COORDINATE DAMPER FITMENT AND INSTALLATIONS WITH OTHER TRADES.
6. CONTROLS CONTRACTOR SHALL PROPERLY COORDINATE AFMS FITMENT AND INSTALLATION WITH OTHER TRADES.
7. CONTROLS CONTRACTOR SHALL WORK CLOSELY WITH VFD START-UP PERSONNEL TO MEET FACILITY REQUIREMENTS, PRIOR TO SUBSTANTIAL COMPLETION.

POINTS LIST KEY

POINTS LIST

POINT NAME	BAS HW	INTEGRATION		POINT TYPE				GRAPHICS	TREND	ALARM	NOTES
		VP	FIELD INST	DI	AI	DO	AO				

- HARDWIRED DEVICE TO A BAS CONTROLLER
- VIRTUAL (INTEGRATION) POINT TO THE BAS.
- HARDWIRE DEVICE TO EQUIPMENT DIRECTLY. DEVICES ARE EITHER SHIPPED LOOSE WITH THE EQUIPMENT OR PROVIDED BY THE BAS TO INTERLOCK WITH AN EQUIPMENT.
- INPUT AND OUTPUT AS READ/GENERATED BY THE BAS CONTROLLER.

POINTS LIST KEY: EXAMPLES ONLY

POINTS LIST

POINT NAME	BAS HW	INTEGRATION		POINT TYPE				GRAPHICS	TREND	ALARM	NOTES
		VP	FIELD INST	DI	AI	DO	AO				
START/STOP	●					●		●	●		1
STATUS (CURRENT SENSOR)	●			●				●	●	●	2
TEMP SETPOINT		●					●	●	●		3
DA TEMP TO EQUIPMENT		●	●		●			●	●		4
OA INTAKE DAMPER			●	●		●					5

NOTE: (EXAMPLE SCENARIOS)
1. ENABLE/DISABLE SIGNAL FROM THE BAS.
2. MONITOR A STATUS WITH AN ANALOG INPUT TO THE BAS.
3. OUTPUT AN ANALOG SIGNAL THROUGH INTEGRATION FROM THE BAS TO EQUIPMENT WITH FACTORY CONTROLS.
4. READ AN ANALOG SIGNAL THROUGH INTEGRATION FROM EQUIPMENT WITH A FACTORY- PROVIDED / FIELD-INSTALLED SENSOR TO THE BAS.
5. INTERLOCK HARDWIRES (BINARY INPUT AND BINARY OUTPUT) BETWEEN AN ACTUATOR TO EQUIPMENT WITHOUT ANY BAS CONTROL OR MONITORING.

SHEET REFERENCING KEY

WHERE SPECIFIC DETAILS APPLY FOR DEVICES, NOTE TAGS ARE PROVIDED FOR REFERENCE AS SUCH:

607.1

- SHEET PAGE
- DETAIL NUMBER ON SHEET PAGE

CABLE REFERENCING KEY

- 26 — RACEWAY & CABLING BY DIVISION 26 CONTRACTOR
- 23B — RACEWAY & CABLING BY BAS CONTRACTOR

TYPICAL REFERENCE FLAG / NAME REPRESENTATIONS *

A	ADJUSTABLE (BY OWNER)
FA	FIELD ADJUSTABLE (BY FIELD PROGRAMMER)
ACT	ACTUATOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
ALRM	ALARM
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACK-DRAFT DAMPER
BLR	BOILER
CFM	CUBIC FEET PER MINUTE
CHLR	CHILLER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CT	COOLING TOWER
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
CV	CONSTANT VOLUME
DOAS	DEDICATED OUTSIDE AIR SYSTEM
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DTWS	DUAL TEMPERATURE WATER SUPPLY
DTWR	DUAL TEMPERATURE WATER RETURN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
ECM	ELECTRONICALLY COMMUTATED MOTOR
ERW	ENERGY RECOVERY WHEEL (ALSO ERV)
ES	END SWITCH
FM	FLOW METER
FT	FIN TUBE RADIATION
F.O.	FAIL OPEN VIA SPRING
F.C.	FAIL CLOSE VIA SPRING
F.I.P.	FAIL IN POSITION
FZ	FREEZE STAT (LOW-LIMIT) TEMPERATURE
GEOS	GEO-THERMAL WATER SUPPLY
GEOR	GEO-THERMAL WATER RETURN
GSWS	GLYCOL STATION WATER SUPPLY
GSWR	GLYCOL STATION WATER RETURN
HG-CHW	HIGH-GRADE CHILLED WATER
HG-HW	HIGH-GRADE HOT WATER
HOA	HAND-OFF-AUTO SWITCH
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
LG-CHW	LOW-GRADE CHILLED WATER
LG-HW	LOW-GRADE HOT WATER
MAU	MAKE-UP AIR UNIT
NO2	NITROGEN DIOXIDE SENSOR
N.O.	NORMAL OPEN POSITION
N.C.	NORMAL CLOSE POSITION
OA	OUTSIDE AIR
OCC	OCCUPANCY
O2	OXYGEN SENSOR
PWR	POWER
RA	RETURN AIR
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SD	SMOKE DETECTOR
TC	TEMPERATURE CONTROLS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE (ALSO VSD)
WS	WATER SENSOR/DETECTION SWITCH

*NOTE: THIS IS A LIST OF TYPICAL REPRESENTATIONS. THIS LIST IS NOT NOT INTENDED TO BE INCLUSIVE OR DEFINITIVE. REFER TO ACTUAL LOGIC DIAGRAM TO ENSURE ACTUAL REFERENCE TAG REPRESENTATION.

CONTROL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
XX POINT NAME	DDC POINT DESCRIPTOR WITH NAME: AI ANALOG INPUT DI DIGITAL INPUT AO ANALOG OUTPUT DO DIGITAL OUTPUT	AFS	AIR FLOW SWITCH
	WIRING DESIGNATION		CONTROL DAMPER (OPPOSED-BLADE)
T	ZONE TEMPERATURE SENSOR		CONTROL DAMPER (PARALLEL-BLADE)
T — ADJ	ZONE/SPACE TEMPERATURE SENSOR WITH ADJUSTMENT SLIDE BAR	ACT	DAMPER ACTUATOR WITH ELECTRIC ACTUATOR
T — OVR — ADJ	ZONE/SPACE TEMPERATURE SENSOR WITH ADJUSTMENT SLIDE BAR + OVERRIDE BUTTON	ES	DAMPER END-SWITCH
CO2	ZONE/SPACE CO2 SENSOR	N.O.	CONTROL VALVE WITH ELECTRIC ACTUATOR TWO-WAY
H	ZONE/SPACE HUMIDITY SENSOR	C. N.C. N.O.	CONTROL VALVE WITH ELECTRIC ACTUATOR THREE-WAY
OS	OCCUPANCY SENSOR (CEILING MOUNTED) BAS CONTRACTOR TO PROVIDE DEDICATED TO BAS ONLY	N.O.	SOLENOID VALVE WITH ELECTRIC ACTUATOR TWO-WAY, ISOLATION ACTUATION
TS1	TEMPERATURE SENSOR WITH SINGLE POINT ELEMENT DUCT-MOUNTED	CS	CURRENT SWITCH / SENSOR (ON/OFF OR VFD SENSOR)
TS2	TEMPERATURE SENSOR WITH AVERAGING ELEMENT DUCT-MOUNTED	TS	LOW-VOLTAGE THERMOSTAT
TS3	IMMERSION TEMPERATURE SENSOR WITH PIPE WELL		REFRIGERANT DETECTOR
HS	HUMIDITY SENSOR DUCT-MOUNTED		EMERGENCY KILL SWITCH (WALL-MOUNTED)
HLH	HIGH LIMIT HUMIDISTAT	480V 120V	CONTROL TRANSFORMER
IAQ	AIR QUALITY SENSOR (DUCT-MOUNTED)		NORMALLY OPEN AND NORMALLY CLOSED CONTACTS
FZ	LOW LIMIT TEMPERATURE SWITCH (FREEZESTAT)	HAND AUTO OFF	HAND-OFF-AUTO SELECTOR SWITCH
HLT	HIGH LIMIT TEMPERATURE SWITCH (FIRESTAT)	FAR	FIRE ALARM RELAY
SD	SMOKE DETECTOR	R	PILOT LIGHT (WITH LENS COLOR)
HI DPT1 LO	DIFFERENTIAL PRESSURE TRANSMITTER/SENSOR (AIR-SIDE)	ON-OFF	ON-OFF SELECTOR SWITCH
LO DPT2 HI	DIFFERENTIAL PRESSURE TRANSMITTER/SENSOR (WATER-SIDE)	TCP	TEMPERATURE CONTROL PANEL
HI DPS LO	DIFFERENTIAL PRESSURE SWITCH	EIC	EQUIPMENT INTEGRAL CONTROLLER
AFMS	AIR FLOW MONITORING STATION	AAC	APPLICATION ADVANCE CONTROLLER
FM	FLOW METER (WATER-SIDE)	ASC	APPLICATION SPECIFIC CONTROLLER

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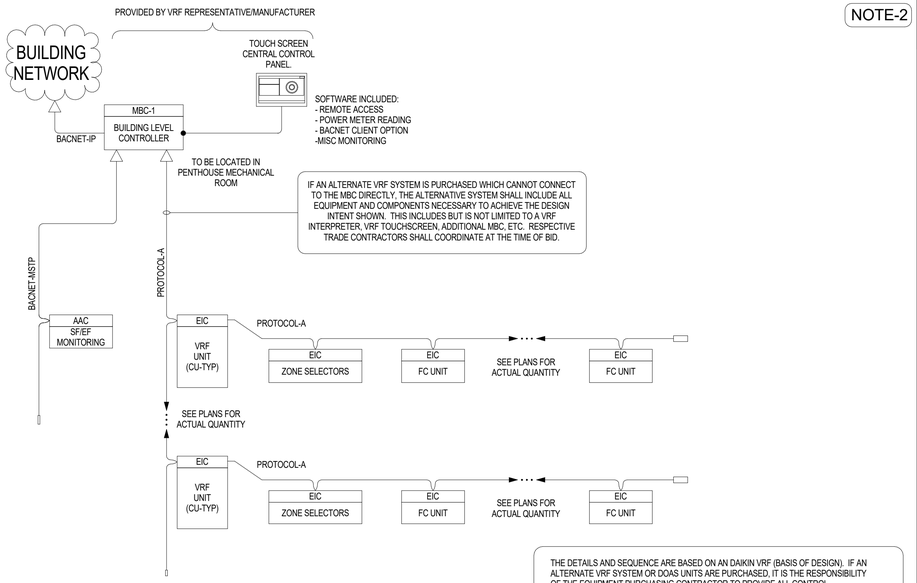
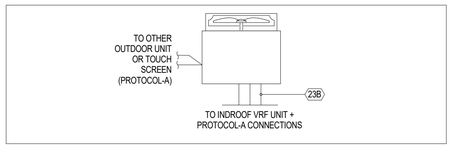
BUILDING LEVEL CONTROLLERS

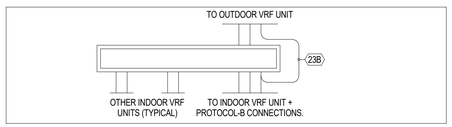


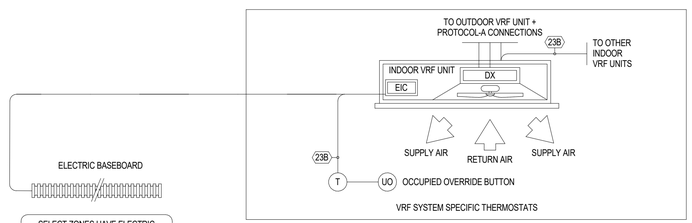
NOTE-2

VRF SYSTEM DEDICATED NETWORK LAYOUT DIAGRAM

NOTE-1 NOTE-3







TYPICAL PER ZONE SERVED BY A SINGLE AIR TERMINAL

INITIAL OPERATIONAL SCHEDULE (RESIDENTIAL):

OCCUPIED: 6:00AM TO 5:59AM (24 HOUR), MONDAY THROUGH FRIDAY,
6:00AM TO 5:59AM (24 HOUR), SATURDAY THROUGH SUNDAY.
SPACE TEMP: OCCUPIED SETPOINT: COOLING: 74°F (FA) / HEATING: 70°F (FA)
SPACE TEMP: UNOCCUPIED SETPOINT: COOLING: 85°F (FA) / HEATING: 65°F (FA)
SPACE SETPOINT ADJUSTMENT: TOTAL OF 2°F (±1°F) (WHERE APPLICABLE)

INITIAL OPERATIONAL SCHEDULE (COMMON AREAS):

OCCUPIED: 6:00AM TO 5:59AM (24 HOUR), MONDAY THROUGH FRIDAY,
6:00AM TO 5:59AM (24 HOUR), SATURDAY THROUGH SUNDAY.
SPACE TEMP: OCCUPIED SETPOINT: COOLING: 72°F (FA) / HEATING: 70°F (FA)
SPACE TEMP: UNOCCUPIED SETPOINT: COOLING: 80°F (FA) / HEATING: 65°F (FA)
SPACE SETPOINT ADJUSTMENT: TOTAL OF 2°F (±1°F) (WHERE APPLICABLE)

UNOCCUPIED OVERRIDE TIME LIMIT: 30-MINUTES PER ACTIVATION.

APPLICABLE CONDENSING UNIT(S): CU TYP.

APPLICABLE INDOOR UNIT(S): FCU TYP. SEE MECHANICAL LAYOUT FOR QUANTITIES.

SEQUENCE:

1. CONTROLS PROVIDER SHALL INSTALL AND WIRE A MANUFACTURE-PROVIDED THERMOSTAT AND INTERLOCK ASSOCIATED CONTROL/LOW-VOLTAGE WIRING WITH THE FAN COIL UNIT. THE THERMOSTAT SHALL BE SMART IN THE RESIDENTIAL UNITS AND 7-DAY PROGRAMMABLE IN THE COMMON AREAS.
2. WHERE APPLICABLE, CONTROLS PROVIDER SHALL INTERLOCK ASSOCIATED CONTROL/LOW-VOLTAGE WIRING WITH THE ELECTRIC BASEBOARD. THE ELECTRIC BASEBOARD SHALL ENGAGE AS THE FIRST SOURCE OF HEATING. IF THE SPACE TEMPERATURE SETPOINT IS NOT SATISFIED FOR 15-MINUTES (A), THE ELECTRIC BASEBOARD SHALL REMAIN ENABLED, AND THE VRF FCU SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE.

FCU ZONES DETAIL

VRF SYSTEM
MIDDLEWARE / NETWORK CONTROLLER / BUILDING CONTROLLER (MBC) OPTIONS

BAS NETWORK LEGEND

	DESCRIPTION
MBC-yy-xx	MIDDLEWARE / BUILDING CONTROLLER (yy = FLOOR, xx = PANEL DESIGNATION ON THE FLOOR LEVEL)
ETH-OP	ETHERNET CONNECTIVITY - OWNER PROVIDED
TS-GUI	TOUCH-SCREEN GRAPHICAL USER INTERFACE

NOTE-1 BAS NETWORK LAYOUT GENERAL NOTES

1. BAS INSTALLER SHALL PROVIDE AND INSTALL CONDUIT/WIRE PER DIVISION 26 GUIDELINES (INCLUDING COMPRESSION FITTINGS ONLY) AND PER CONTROLLER MANUFACTURER'S RECOMMENDATION.
2. WEB-BASED SUPERVISOR SOFTWARE SHALL BE PROVIDED AND INSTALLED BY THE BAS INSTALLER.
3. APPLICATION OF OPEN SYSTEM (PROTOCOL AND LICENSING): SUBJECT TO THE DETAILED REQUIREMENTS PROVIDED THROUGHOUT THE SPECIFICATION, THE BAS AND DIGITAL CONTROL AND COMMUNICATIONS COMPONENTS INSTALLED, AS WORK OF THIS CONTRACT, SHALL BE AN INTEGRATED DISTRIBUTED PROCESSING SYSTEM UTILIZING THE FOLLOWING STANDARDS:

   a. PROTOCOL: BACNET- MS/TP
      I. SYSTEM COMPONENTS SHALL COMMUNICATE USING NATIVE BACNET IN ACCORDANCE WITH ASHRAE STANDARD 135 AND CURRENT ADDENDA AND ANNEXES, INCLUDING ALL WORKSTATIONS, ALL BACNET BUILDING CONTROLLERS (BC), ADVANCED APPLICATION CONTROLLERS (AAC) AND ALL APPLICATION SPECIFIC CONTROLLERS (ASC). GATEWAYS FROM OTHER COMMUNICATION PROTOCOLS ARE NOT ACCEPTABLE. ALL CONTROLLERS MUST BE BACNET TESTING LABS LISTED FOR THEIR REQUIRED PROFILE (BC, AAC OR ASC).
      II. ALTERNATIVE SOLUTIONS: IF A PROTOCOL OTHER THAN BACNET-MS/TP IS PROVIDED, THE BAS INSTALLER SHALL PROVIDE DETAILED ADVANTAGES, DISADVANTAGES, AND COMPETITIVE SERVICE PROVIDERS IN THE AREA (WITHIN A 50 MILE RADIUS OF THE BUILDING) FOR EOR AND OWNER APPROVAL.

   b. PROTOCOL-A:
      I. A PROTOCOL BY THE MANUFACTURER FOR THEIR RESPECTIVE VARIABLE REFRIGERANT FLOW SYSTEM. (PROTOCOL-A EXAMPLES: DIII-NET, M-NET, AND V-NET).

NOTE-2 BUILDING-LEVEL NETWORK GENERAL NOTES

1. ALL 'NETWORK LAYOUT GENERAL NOTES' APPLY.
2. A DEDICATED VRF CONTROL PANEL SHALL BE PROVIDED AS SHOWN. EACH MIDDLEWARE/BC CONTROLLER PACKAGE SHALL PROVIDE NETWORK MANAGEMENT, DATA TRANSFER, AND DATA STORAGE TO BE SERVED TO A BAS SERVER FOR LONG TERM DATA COLLECTION AND ANALYSIS.
3. THE BAS INSTALLER SHALL PROVIDE DRIVERS AND LICENSES TO ACCOUNT FOR NODE REQUIREMENT WITH AN ADDITIONAL 20% CAPACITY FOR FUTURE EXPANDABILITY.
4. PROVIDE THE TECHNOLOGY/DATA INSTALLER THE BAS REQUIREMENTS DURING THE SUBMITTAL DOCUMENTATION PHASE FOR PROPER COORDINATION.
5. BAS TRUNK(S): THE MBC SHALL HAVE TWO RS485 PORTS FOR BACNET-MSTP EXPANDABILITY.
6. GRAPHICAL USER INTERFACE: THE BAS INSTALLER SHALL INCLUDE SOFTWARE AND LICENSES TO PROVIDE THE OWNER A COMPLETE SINGLE POINT ACCESS AND SINGLE USER INTERFACE. THE GRAPHICS SHALL BE CUSTOMIZED FOR BUILDING SPECIFIC OPERATIONS AND MUST BE USER FRIENDLY.
7. BUILDING CONTROLLER SHALL HAVE BACNET OVER ETHERNET.
8. PROVIDE ENCLOSURE WITH A MASTER BAS PANEL KEY.
7. THE BAS INSTALLER SHALL PROVIDE AND PROGRAM AN MBC WITH 36-MONTHS SOFTWARE MAINTENANCE AGREEMENT.

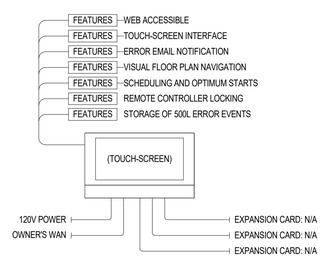
NOTE-3 CONTRACTOR GENERAL NOTES

1. THE TERM "BAS INSTALLER" OR "INSTALLER" USED THROUGHOUT THE M7.0 SERIES SHEETS REFERS TO A QUALIFIED ELECTRICIAN THAT CAN INSTALL BAS NETWORKS AND EQUIPMENT. BAS INSTALLER IS NOT IN REFERENCE TO A BAS CONTROLS CONTRACTOR.
2. APPROVED BAS BUILDING LEVEL HARDWARE INSTALLER:
   a. BAS INSTALLER SHALL INSTALL ALL CONDUIT/WIRE AND LOOSE SHIPPED CONTROL DEVICES AS SHOWN ON M7.0 SHEETS
3. AT THE TIME OF BID SUBMISSION, THE BAS INSTALLER SHALL PROVIDE THE FOLLOWING:
   a. COMPLETE INFORMATION ON THEIR BAS (E.G. NETWORK ARCHITECTURE TO FIELD LEVEL CAPABILITIES)
   c. ORGANIZATION CHART FOR ACCOUNT (E.G. ACCOUNT MANAGER, PROJECT MANAGER, LEAD ENGINEER)
   d. PRELIMINARY BILL-OF-MATERIAL
4. AT THE TIME OF SUBMISSION, THE BAS INSTALLER SHALL PROVIDE, AT A MINIMUM:
   a. SHOP DRAWINGS AND SCHEDULES
   b. FLOOR PLAN LOCATIONS OF CONTROL DEVICES
   c. PRODUCT DATA SHEETS
   d. ORGANIZATION CHART FOR ACCOUNT (E.G. ACCOUNT MANAGER, PROJECT MANAGER, LEAD ENGINEER)
   e. POINT-TO-POINT CHECKOUT FORMS
   f. PRE-FUNCTIONAL CHECKOUT FORMS
   g. FUNCTIONAL PERFORMANCE FORMS
   h. TESTING PLAN
   i. TRAINING AGENDA

THE TERM "BAS INSTALLER" OR "INSTALLER" USED THROUGHOUT THE M7.0 SERIES SHEETS REFERS TO A QUALIFIED ELECTRICIAN THAT CAN INSTALL BAS NETWORKS AND EQUIPMENT. BAS INSTALLER IS NOT IN REFERENCE TO A BAS CONTROLS CONTRACTOR.

VRF: NETWORK SMART / TOUCH-SCREEN CONTROLLER

1. ALL 'NETWORK LAYOUT' GENERAL NOTES APPLY. A BAS INSTALLER SHALL PROVIDE AND INSTALL CONDUIT/WIRE PER DIVISION 26 GUIDELINES FOR THE VRF COMMUNICATION NETWORK BETWEEN FCU, CU, AND TOUCHSCREEN EQUIPMENT.
2. PROTOCOL-A: A PROTOCOL BY THE MANUFACTURER FOR THEIR RESPECTIVE VARIABLE REFRIGERANT FLOW SYSTEM. (PROTOCOL-A EXAMPLES: DIII-NET, M-NET, AND V-NET).
3. THE TOUCHSCREEN CONTROLLER SHALL REQUIRE A STATIC IP ADDRESS.
4. THE BAS INSTALLER SHALL BE PRESENT AT THE TIME OF EQUIPMENT START-UP AND AOR/EOR FUNCTIONAL WALK-THROUGH.



POINTS LIST

POINT NAME	BAS HW	INTEGRATION VP	INTEGRATION FIELD INST	POINT TYPE DI	POINT TYPE AI	POINT TYPE DO	POINT TYPE AO	GRAPHICS	TREND	ALARM	NOTES
FCU											
SPACE TEMP		•			•			•	•	•	1
SPACE SETPOINT		•			•			•	•		1
SPACE OCCUPANCY		•		•				•	•		1
SPACE UNOCCUPANCY		•		•				•	•		1
UNIT ENABLE		•				•		•	•		2
UNIT STATUS		•		•				•	•	•	2
UNIT FAULT ALARM		•		•				•	•	•	2
UNIT TOTAL RUNTIME		•			•			•	•		2
UNIT % UTILIZATION		•			•			•	•		2
UNIT % IN CLG		•			•			•	•		2
UNIT % IN HTG		•			•			•	•		2

NOTE:
1. PER INDOOR UNIT
2. PER CONDENSING UNIT

GENERAL POINTS LIST

GENERAL NOTES:

1. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT AND DIGITAL INPUT POINTS.

VRF NETWORK LAYOUT NOTES:

1. SPLICING OF COMMUNICATION CABLE BETWEEN DEVICES IS NOT ALLOWED.
2. VRF EQUIPMENT INTEGRAL CONTROLS SHALL BE PROVIDED BY THE EQUIPMENT PROVIDER. THE NETWORK WIRING AND LOOSE DEVICES SHALL BE INSTALLED BY THE BAS INSTALLER.
3. PROVIDE AND INSTALL ALL REQUIRED NETWORK WIRING, HUBS, ROUTERS, SWITCHES, AND INSTALLATION HARDWARE FOR THE VRF CONTROL SYSTEM.
4. CATEGORY 5E NETWORK CABLE SHALL BE UTILIZED FOR ALL PRIMARY AND SUPERVISORY LAN NETWORK WIRING.
5. ONE IP ADDRESS IS REQUIRED FOR THE VRF INTERFACE MODULE.
6. QUANTITIES ON MECHANICAL OR ELECTRICAL DRAWINGS SHALL SUPERCEDE THIS SCHEMATIC.
7. A BAS INSTALLER SHALL PROVIDE AND INSTALL CONDUIT/WIRE PER DIVISION 26 GUIDELINES FOR THE VRF COMMUNICATION NETWORK BETWEEN FCUS, CUS, HRUS, AND VRF INTEGRATOR EQUIPMENT.
8. THE BAS INSTALLER SHALL BE PRESENT AT THE TIME OF EQUIPMENT START-UP AND AOR/EOR FUNCTIONAL WALK-THROUGH.
9. THE DESIGN INTENT OF THE SYSTEM IS TO HAVE ALL CONTROL DEVICES REPRESENTED ON THE TOUCH SCREEN CENTRAL CONTROL PANEL AND WEB INTERFACE. INCLUDING BUT NOT LIMITED TO THE VRF CUs, FCUs, EFs AND SFs UNITS.

GENERAL NOTES

NOT FOR CONSTRUCTION

REVISION	DATE
0	04-MAY

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JONES & JONES ASSOCIATES ARCHITECTS PC

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

M7.1

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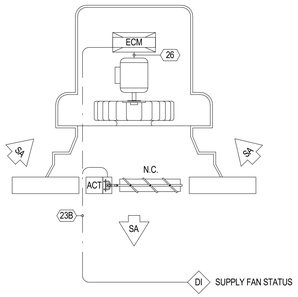
NOTE: BAS INSTALLER SHALL PROVIDE CURRENT TRANSDUCERS, AND RELAYS TO ACHIEVE SEQUENCE.



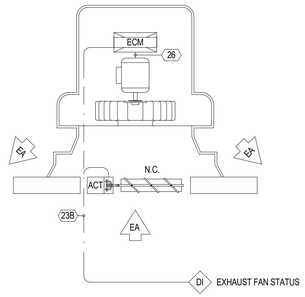
APPLICABLE FOR: SF 8.1, SF 8.2, SF 8.3, SF 8.4

SEQUENCE:

1. GENERAL: BAS SHALL MONITOR THE FAN'S ACTIVATION.
2. BAS WORKSTATION SHALL PRESENT FAN OPERATION AND USE THE STATUS INDICATION TO ACCUMULATE AND DISPLAY RUNTIME.

01 SUPPLY FAN MONITORING

NOTE: BAS INSTALLER SHALL PROVIDE CURRENT TRANSDUCERS, AND RELAYS TO ACHIEVE SEQUENCE.

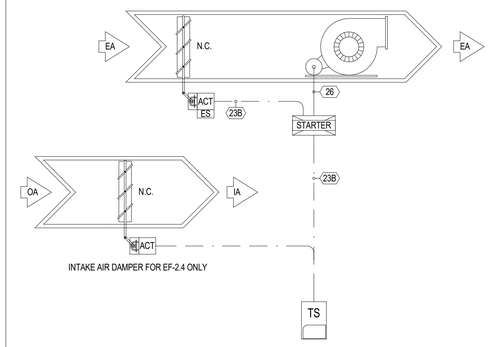


APPLICABLE FOR: EF 8.1, EF 8.2, EF 8.3, EF 8.4

SEQUENCE:

1. GENERAL: BAS SHALL MONITOR THE FAN'S ACTIVATION.
2. BAS WORKSTATION SHALL PRESENT FAN OPERATION AND USE THE STATUS INDICATION TO ACCUMULATE AND DISPLAY RUNTIME.

02 EXHAUST FAN MONITORING



INTAKE AIR DAMPER FOR EF-2.4 ONLY

APPLICABLE FOR: EF 2.4, EF 2.6

INITIAL OPERATIONAL SCHEDULE:

SPACE TEMP SETPOINT: 85°F ADJUSTABLE AT THERMOSTAT

SEQUENCE:

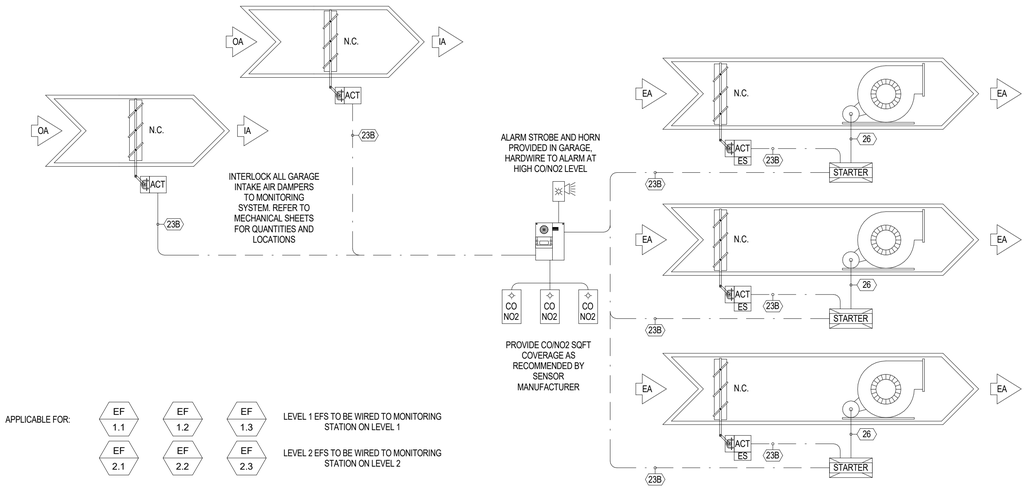
1. A WALL MOUNTED THERMOSTAT SHALL ENABLE THE FAN.
2. THE IA DAMPER SHALL OPEN WHEN THE FAN IS ENABLED.
3. WHEN THE FAN IS DISABLED, THE IA DAMPER SHALL CLOSE.

03 EXHAUST FAN W/ THERMOSTAT

POINTS LIST

POINT NAME	BAS HW	INTEGRATION VP	INTEGRATION FIELD INST	POINT TYPE DI	POINT TYPE AI	POINT TYPE DO	POINT TYPE AO	GRAPHICS	TREND	ALARM	NOTES
SUPPLY FAN MONITORING											
FAN STATUS	●			●			●				1
EXHAUST FAN MONITORING											
FAN STATUS	●			●			●				1

NOTE:
1. POINTS PROVIDED AS A MINIMUM TO BE DISPLAYED AT VRF TOUCH SCREEN.



APPLICABLE FOR: EF 1.1, EF 1.2, EF 1.3 — LEVEL 1 EFS TO BE WIRED TO MONITORING STATION ON LEVEL 1; EF 2.1, EF 2.2, EF 2.3 — LEVEL 2 EFS TO BE WIRED TO MONITORING STATION ON LEVEL 2

PARAMETERS:

SPACE CO SETPOINT: 25 PPM
SPACE CO LOW ALARM SETPOINT: 75 PPM
SPACE CO HIGH ALARM SETPOINT: 100 PPM

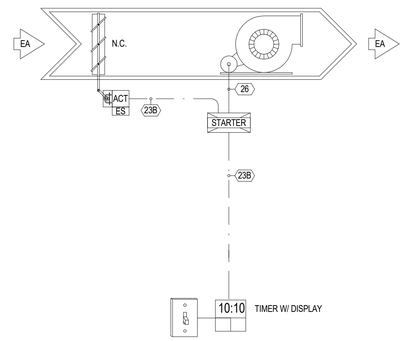
SPACE NO2 SETPOINT: 0.7 PPM
SPACE NO2 LOW ALARM SETPOINT: 1 PPM
SPACE NO2 HIGH ALARM SETPOINT: 1.2 PPM

SEQUENCE:

1. THE FANS SHALL RUN CONTINUOUSLY AT A LOW CFM SET BY THE BALANCER.
1. A WALL MOUNTED MONITORING STATION SHALL SWITCH THE EXHAUST FANS TO MAX CFM WHEN ANY SENSOR READS ABOVE THE SPACE CO OR NO2 SETPOINT
2. THE IA DAMPER SHALL OPEN WHEN THE FANS ARE SWITCHED TO HIGH CFM.
3. THE WALL MOUNTED MONITORING STATION SHALL SWITCH THE EXHAUST FANS TO LOW CFM WHEN ALL SENSORS READ BELOW THE SPACE CO OR NO2 SETPOINT.
4. THE IA DAMPER SHALL CLOSE WHEN THE FANS ARE SWITCHED TO LOW CFM.

4. LOW ALARM: WHEN THE CO OR NO2 LEVEL EXCEEDS THE LOW ALARM SETPOINT, THE STROBE SHALL BE ENABLED.
5. HIGH ALARM: WHEN THE CO OR NO2 LEVEL EXCEEDS THE HIGH ALARM SETPOINT, THE STROBE AND HORN SHALL BE ENABLED.

04 EXHAUST FANS W/ CO & NO2 MONITORING



APPLICABLE FOR: EF 2.5

SEQUENCE:

1. THE EXHAUST FAN SHALL HARDWIRED TO THE LIGHT SWITCH TO ENABLE WHENEVER THE LIGHT SWITCH IS TURNED ON.
2. CONTROLS INSTALLER SHALL PROVIDE AND INSTALL TIME DELAY CLOCK TO ALLOW THE EXHAUST FAN TO OPERATE 20 MIN (A) AFTER LIGHT SWITCH IS TURNED OFF.

05 EXHAUST FAN W/ THERMOSTAT

GENERAL POINTS LIST

GENERAL NOTES:

1. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT AND DIGITAL INPUT POINTS.

DRAWING NOTES:

NOTE 1 - NOT USED

GENERAL NOTES

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REVISION DATE
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COMMISSION NUMBER
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DATE
15 APR 2021

M7.2

JONES & JONES ASSOCIATES ARCHITECTS PC

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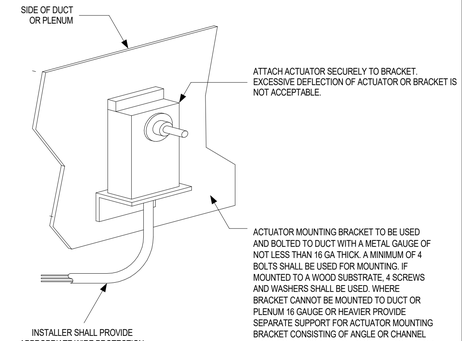
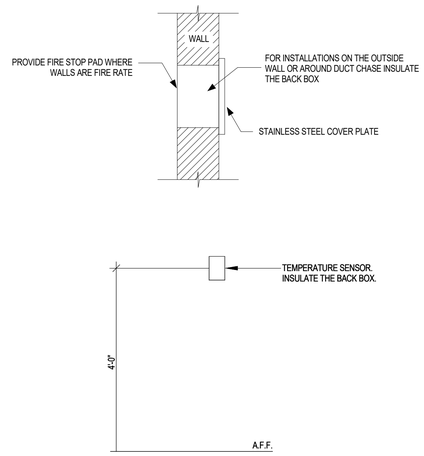


NOTES:

1. PROVIDE A MINIMUM OF 1 ACTUATOR FOR EVERY 25 SQUARE FEET OF DAMPER AREA. DAMPER ACTUATORS SHALL BE SELECTED WITH A MINIMUM SAFETY FACTOR OF 30% RELATIVE TO THE CALCULATED TORQUE REQUIRED TO OPERATE THE DAMPERS. BAS PROVIDER SHALL FURNISH THE REQUIRED QUANTITIES OF ACTUATORS TO DELIVER A FULLY FUNCTIONAL SYSTEM.
2. COORDINATE WITH ASSOCIATED CONTRACTOR WELL IN ADVANCE FOR SIZE AND PLACEMENT. PROVIDE WRITTEN DOCUMENTATION OF ACTUATOR LOCATIONS AND COORDINATION, INCLUDING SIGN OFFS WITH ASSOCIATED CONTRACTORS DURING THE SUBMITTAL PHASE
3. PROVIDE A MINIMUM OF 8" CLEARANCE OF ACTUATOR BODY AND SHAFT END.

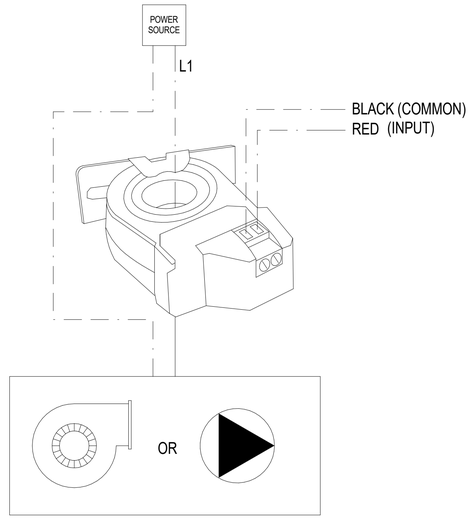
01 DAMPER ACTUATOR DETAIL



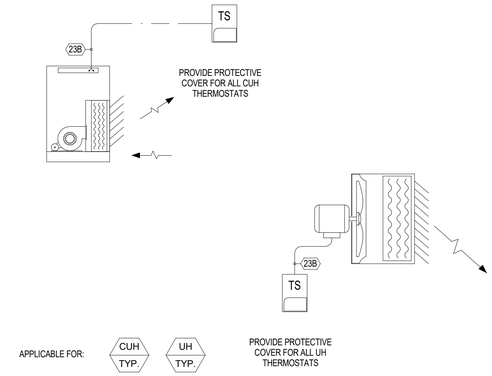
NOTES:

1. SEE FLOOR PLANS FOR SENSOR LOCATION.
2. OWNER, AOR AND/OR EOR SHALL RESERVE THE RIGHT FOR FINAL LOCATIONS. THE BAS PROVIDER SHALL INCLUDE FLOOR PLAN LAYOUTS OF ROOM SENSORS DURING THE SUBMITTAL PHASE.
3. SENSOR HEIGHTS SHALL BE INSTALLED AS SHOWN, UNLESS DIRECTED BY THE AOR AND/OR THE OWNER.
4. COMBINATION SENSORS SHALL BE UTILIZED UNLESS DIRECTED BY THE OWNER.

02 ZONE LEVEL TEMP SENSOR ELEVATIONS



03 CURRENT TRANSDUCER WIRING DETAIL (FAN OR PUMP)



INITIAL OPERATIONAL SCHEDULE:

SPACE TEMP SETPOINT: 65°F (A)

SEQUENCE:

1. A REMOTE MOUNTED THERMOSTAT SHALL OPERATE THE HEATER TO MAINTAIN THE SPACE TEMP. SETPOINT.

04 UNIT HEATER AND CABINET UNIT HEATER: ELECTRIC

05

06

07

08

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JONES & JONES ASSOCIATES ARCHITECTS PC

SYSTEMS ABBREVIATIONS

ABBREVIATION	SYSTEM NAME
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
KW	KITCHEN WASTE
OW	OIL WASTE
OWV	OIL WASTE VENT
PW	PRESSURIZED WASTE
SAN	SANITARY
ST	STORM
STO	STORM OVERFLOW
V	VENT

SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ANGLE GATE VALVE		NON-FREEZE WALL HYDRANT
	ALARM CHECK VALVE		OS&Y VALVE
	BALANCING COCK	TS	OS&Y WITH TAMPER SWITCH
	BALANCING VALVE		P-TRAP
	BALL VALVE / ISOLATION VALVE		PRESSURE GAUGE
	CHECK VALVE		PIPE CAP
	DETECTOR CHECK VALVE WITH BY-PASS METER		PUMP (TYPICAL)
	DRY PIPE VALVE		ROOF/YARD HYDRANT
	ELBOW DOWN		SHUT-OFF VALVE
	ELBOW UP		STRAINER
	FIRE ALARM BELL		SIAMESE FIRE DEPT. CONNECTION
	FIRE DEPARTMENT VALVE	TS	TAMPER SWITCH
FEC-R/S	FIRE EXTINGUISHER RECESSED OR SURFACE		TEE DN
	FLOOR CLEAN OUT		TEE UP
	FLOW ARROW		THERMOMETER
FS	FLOW SWITCH		UNION
	GLOBE VALVE		WALL FIRE PUMP TEST HEADER
	HOSE BIB		WALL/PIPE CLEAN OUT
BF	INLINE BACK FLOW PREVENTER		WALL SLEEVE
	MIXING VALVE		
NS	NON SPRINKLED AREA		
	NEW CONNECTION		

PLUMBING ABBREVIATIONS

KEY NAME	COMMENT
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLD	BUILDING
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CM	COFFEE MAKER
CO	CLEANOUT
CSW	COLD SOFT WATER
CV	CHECK VALVE
D	DRAIN
DET	DETAIL
DFU	DRAINAGE FIXTURE UNITS
DIA, Ø	DIAMETER
DN	DOWN
DT	FOUNDATION DRAIN TILE
DV	DRAIN VALVE
DWG	DRAWING
DWS	DOMESTIC WATER SERVICE
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
EP	ELEVATOR PUMP
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF ELEV	FINISH FLOOR ELEVATION
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET
GF	GLYCOL FILL STATION
GPM	GALLON PER MINUTE
HD	HUB DRAIN
ICW	INDUSTRIAL COLD WATER
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MB	MOP BASIN
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NFWH	NON FREEZE WALL HYDRANT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P	PUMP
PC	PLUMBING CONTRACTOR
PCP	PUMP CONTROL PANEL
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PW	PRESSURIZED WASTE
REX	REMOVE EXISTING
RP	RECIRCULATION PUMP
SAIN	SANITARY WASTE
SK	SINK
SP	SUMP PUMP
SPEC	SPECIFICATION
ST	STORM, PUMP DISCHARGE TO MEET PRESSURIZED WASTE PIPING REQUIREMENTS
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TBD	TO BE DETERMINED
TDH	TOTAL DYNAMIC HEAD
TEMP or T	TEMPERATURE
THX	THERMAL EXPANSION TANK
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
VTR	VENT THRU ROOF
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WCO	YARD CLEANOUT
WHA	WATER HAMMER ARRESTER
WS	WATER SOFTENER
°	DEGREE
°F	DEGREES FAHRENHEIT
ø	DIAMETER

GENERAL PLUMBING NOTES:
APPLICABLE TO ALL PLUMBING DRAWINGS

1. DEFINITIONS

A. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION.

B. "INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.

C. PROVIDE" MEANS TO "FURNISH" AND "INSTALL".

D. "FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES

A. THE WORK SHALL COMPLY WITH LATEST LOCAL BUILDING CODE. THIS WOULD INCLUDE, BUT IS NOT LIMITED TO, THE CURRENT CITY BUILDING CODE, AMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING. THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

3. INTERPRETATION OF THE DOCUMENTS

A. THE PLUMBING CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE PLUMBING CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE PLUMBING CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

4. COORDINATION

A. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. ROUTING OF PIPING, DUCTWORK, CONDUITS, RACEWAYS, ETC. AS SHOWN ON THE DRAWINGS DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED.

B. THE PLUMBING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EXISTING AND NEW REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE PLUMBING CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. ALL CHANGES TO EXISTING OR NEW PLUMBING EQUIPMENT, PIPES, FITTINGS, ETC. SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN THE COMPLETION DATE OF THE PROJECT.

C. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

D. THE PLUMBING CONTRACTOR SHALL SUBMIT SKETCHES TO ARCHITECT FOR APPROVAL, PRIOR TO MAKING ANY BEAM PENETRATIONS.

E. COORDINATE & VERIFY WITH GENERAL CONTRACTOR AND RELATED DISCIPLINES PRIOR TO START OF ANY WORK, ALL WORK TO BE PERFORMED INSIDE OF THE 5'-0" BUILDING PERIMETER LIMITS OF CONSTRUCTION AND COORDINATED WITH OTHER TRADES TO MATCH WORK OUTSIDE.

F. ALL FLOOR MOUNTED EQUIPMENT NOT PROVIDED ON A SKID IS TO BE INSTALLED ON 4" THICK CONCRETE HOUSEKEEPING PAD.

G. THE PLUMBING CONTRACTOR SHALL GIVE ALL LOCATIONS AND DIMENSIONS OF ALL REQUIRED ACCESS PANELS TO THE GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL ALL FINISH REQUIREMENTS PRIOR TO INSTALLATION. THE PLUMBING CONTRACTOR SHALL FURNISH THE ACCESS PANELS. THE GENERAL CONTRACTOR SHALL INSTALL THE ACCESS PANELS.

H. ALL PIPING, VALVES AND DEVICES SHALL BE INSTALLED SO AS NOT TO OBSTRUCT ANY PORTION OF A WINDOW, DOORWAY, STAIRWAY OR PASSAGEWAY OR ANY PIECE OF MECHANICAL OR ELECTRICAL EQUIPMENT.

5. SITE EXAMINATION

A. THE PLUMBING CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE PLUMBING CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE PLUMBING CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

B. WATER PRESSURE AND SUPPLY INFORMATION: FIELD VERIFY ALL PRESSURES AND CAPACITIES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FLOW TEST INFORMATION.

C. CATCH BASINS AND MANHOLES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR.

6. PERMITS

A. THE PLUMBING CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENSES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE PLUMBING WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

7. SAFETY

A. THE PLUMBING CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

B. ALL PLUMBING ELEMENTS THAT ARE IN CONTACT WITH POTABLE / DRINKING WATER SHALL BE NSF 61 CERTIFIED.

8. CONTRACTOR'S DRAWING REVIEW

A. ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FINISHED CEILING HEIGHTS, AND LOCATION OF WALL, ROOF, AND FLOOR OPENINGS. PIPE LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS.

B. THE PLUMBING CONTRACTOR SHALL CONFIRM THAT PIPE LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK

A. THE PLUMBING CONTRACTOR SHALL PROVIDE THE COMPLETE PLUMBING INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

B. PRIOR TO COMMENCEMENT OF WORK, THE PLUMBING CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK.

C. THE PLUMBING CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION; FAILURE TO DO SO BEFORE CONDUCTING WORK WILL NOT CONSTITUTE LACK OF RESPONSIBILITY ON THE PART OF THE CONTRACTOR, AND ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

D. DISRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, AND SHALL BE PERFORMED AT A TIME AND MANOR SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.

10. WORK PERFORMANCE REQUIREMENTS

A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY CODE.

B. ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING END OF EACH WORK DAY.

C. ALL PIPING PASSING THRU FLOORS, WALLS, CEILINGS OR ROOF SHALL HAVE A DUCTILE IRON PIPE SLEEVE INSTALLED AROUND THE PIPE AND/OR INSULATION. SLEEVES THROUGH FOUNDATION WALLS SHALL BE AT LEAST 2 PIPE SIZES LARGER THAN THE SERVICE PIPE.

D. PROVIDE AN ESCUTCHEON PLATE AROUND PENETRATIONS EXPOSED TO VIEW. ESCUTCHEON PLATES SHALL BE LARGE ENOUGH TO COVER THE ENTIRE HOLE. ALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE WALL/FLOOR/ROOF FIRE & INSULATION RATINGS.

E. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES.

F. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT.

G. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE.

H. TRENCHING, EXCAVATION, AND BACKFILL OPERATIONS SHALL BE IN ACCORDANCE WITH ARTICLE 3, SECTION 306 OF THE CHICAGO BUILDING CODE.

11. CUTTING AND PATCHING

A. ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THE PLUMBING CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE. PATCH ALL DISTURBED WALLS, CEILINGS AND FLOORS TO MATCH ADJACENT SURFACES AS NECESSARY.

12. FIRESTOPPING

A. ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE-STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).

B. PIPES WHICH PASS THROUGH EXISTING AND NEW FIRE-RESISTIVE BARRIERS, INCLUDING FLOOR SLABS AND WALLS, SHALL BE FIRE SEALED TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTIVE BARRIER. ALL EXPOSED PIPES PASSING THROUGH A WALL, CEILING OR FLOOR SHALL HAVE CHROME ESCUTCHEON PLATES.

13. TEMPORARY PROVISIONS

A. THE PLUMBING CONTRACTOR SHALL PROVIDE TEMPORARY WATER SUPPLY MEANS DURING CONSTRUCTION. THE PLUMBING CONTRACTOR SHALL COORDINATE TEMPORARY POWER PROVISIONS WITH THE ELECTRICAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.

B. THE PLUMBING CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE PROVISIONS BETWEEN THE START OF CONSTRUCTION UNTIL SUCH TIME THAT THE BUILDING CAN DRAIN, AS INDICATED IN THE CONSTRUCTION DOCUMENTS PLUMBING CONTRACTOR SHALL COORDINATE ALL TEMPORARY POWER PROVISIONS WITH THE ELECTRICAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.

14. EQUIPMENT

A. THE PLUMBING CONTRACTOR SHAL PROVIDE PROPER WORKING CLEARANCE IN FRONT AND AROUND EQUIPMENT PER THE MANUFACTURERS RECOMMENDATIONS.

15. DOMESTIC WATER

A. ALL WATER SUPPLIED TO EQUIPMENT BY OTHER TRADES SHALL HAVE AN ISOLATION VALVE AND AN APPROVED BACKFLOW PREVENTER WHICH SHALL BE SUPPLIED AND INSTALLED BY THE PLUMBING CONTRACTOR.

B. ALL DOMESTIC WATER SUPPLIES TO FIXTURES AND EQUIPMENT SHALL HAVE AIR CHAMBERS OR MANUFACTURED WATER HAMMER ARRESTORS.

C. ALL WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED, INCLUDING ALL PIPING ABOVE CEILINGS, IN PIPE CHASES, AND IN WALLS. REFER TO SPECIFICATIONS FOR TYPE AND THICKNESS OF INSULATION. PROVIDE VALVE HANDLE EXTENSIONS ON ALL INSULATED PIPING.

D. ALL HOT WATER SUPPLY PIPING SHALL BE INSTALLED TO COMPENSATE FOR EXPANSION OF THE PIPE BY INSTALLING PIPE ANCHORS, GUIDES, EXPANSION JOINTS, PIPE OFFSETS, OR LOOPS. EXPANSION JOINTS ARE TO ACCOMMODATE THREE AXIS OF MOVEMENT.

E. ALL INTERIOR AND EXTERIOR HOSE BIBS / WALL HYDRANTS, ROOF HYDRANTS, ETC. SHALL RECEIVE WATER SUPPLY DOWNSTREAM OF A STRAINER AND DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER INSTALLED INSIDE THE BUILDING AT NO MORE THAN 48" ABOVE THE FLOOR AND ACCESSIBLE TO MAINTENANCE.

F. MOP SINKS / SERVICE SINKS WITH HOSE THREADED FAUCETS SHALL HAVE A VACUUM BREAKER ON THE SUPPLY AFTER THE VALVES, LOCATED 7'-6" ABOVE FINISHED FLOOR

G. PROVIDE DUAL CHECK VALVE FOR ALL FEEDS TO ICE MAKERS, COFFEE MAKERS, AND DISHWASHERS.

H. PROVIDE A REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR ALL CHEMICAL DISPENSING SYSTEMS AT MOP/SERVICE SINKS AND THREE COMPARTMENT SINKS.

I. EACH GROUP OF FIXTURES SUPPLIED WITH A BRANCH FROM THE MAIN SHALL HAVE AN ISOLATION VALVE NEAR THE POINT OF CONNECTION TO THE MAIN. ALL EQUIPMENT SUPPLIED BY COLD AND/OR HOT WATER SHALL HAVE AN ISOLATION VALVE ON THE WATER SUPPLY.

J. PITCH ALL SUPPLY AND RETURN LINES TO DRAIN COMPLETELY THROUGH LOWER EQUIPMENT, FIXTURES, UNIONS, AND DRAIN VALVES.

K. PROVIDE MANUAL AIR VENTS AIR A THE TOP OF ALL COLD AND/OR HOT WATER MAINS.

L. INSTALL A 1/2" DRAIN VALVE WITH 3/4" HOSE THREAD AND VACUUM BREAKER OUTLET IN ALL MAIN PIPING RUNS WHICH WOULD NOT BE ABLE TO DRAIN THRU A LOWER PIECE OF EQUIPMENT.

M. ALL WATER DISTRIBUTION SYSTEMS, POTABLE AND NON-POTABLE, SHALL BE IDENTIFIED BY COLOR MARKING OR METAL TAGS AS REQUIRED BY ASME A13.1.

N. COPPER PIPE ABOVE GROUND SHALL BE (TYPE L) MINIMUM, SWEAT WITH WROUGHT FITTINGS.

O. PROVIDE UNIONS AND/OR FLANGES TO DISCONNECT ALL PERTINENT EQUIPMENT INCLUDING BUT NOT LIMITED TO PUMPS, WATER HEATERS, TANKS, FILTERS AND VALVE TRAINS.

P. ALL TESTABLE BACKFLOW DEVICES SHALL BE LOCATED NO MORE THAN 5' ABOVE THE FLOOR.

Q. ALL EXPANSION JOINTS ARE TO BE MSDE ACCESSIBLE AND MAY BE USED WHERE NECESSARY TO PROVIDE FOR EXPANSION OR CONTRACTION OF THE PIPING.

16. INSULATION

A. ALL DOMESTIC HOT & COLD WATER-PIPING SHALL BE INSULATED WITH HEAVY DENSITY, FIBERGLASS PIPE INSULATION 1" THICK, WITH FLAME RETARDANT VAPOR BARRIER JACKET, AS MANUFACTURED BY OWENS-CORNING OR JOHNS-MANVILLE.

B. STORM DRAIN-SUSPENDED PIPING: HEAVY DENSITY, FIBERGLASS PIPE INSULATION 1/2" THICK, WITH FLAME RETARDANT VAPOR BARRIER JACKET, AS MANUFACTURED BY OWENS-CORNING OR JOHNS-MANVILLE. INSULATE ALL INTERIOR HORIZONTAL & VERTICAL LEADERS FROM ROOF DRAINS, AS WELL AS ROOF DRAIN BODY, TO PREVENT CONDENSATION.

17. SANITARY, STORM & VENT

A. ALL SANITARY AND STORM PIPING SHALL SLOPE AT 1/4" PER FOOT FOR 2-1/2" AND SMALLER, AT 1/8" PER FOOT FOR 3" TO 6", AND 1/16" FOR 8" AND LARGER PIPING UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

B. ALL HORIZONTAL DRAINS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NO MORE THAN 50 FEET APART FOR DRAINS 4" OR LESS, 100 FEET FOR DRAINS 6" & 8", AND 150 FEET FOR DRAINS 10" OR LARGER. CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF THE DRAINAGE PIPE GREATER THAN 45 DEGREES.

C. ALL SOIL STACKS SHALL RUN FULL SIZE THROUGH THE ROOF.

D. THE DIAMETER OF ALL VENTS SHALL BE AT LEAST ONE-HALF THE DIAMETER OF THE DRAIN LINE SERVED BUT NOT LESS THAN 1-1/2".

E. RUN NEW WASTE PIPES AS CLOSE AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB AND VENT PIPING AS CLOSE AS POSSIBLE TO SLAB ABOVE.

F. IN AREAS SUCH AS MECHANICAL/ELECTRICAL ROOMS, WHERE A TRAP SEAL IS SUBJECT TO LOSS BY EVAPORATION, PROVIDE A DEEP SEAL TRAP (CONSISTING OF A 4-INCH SEAL), A TRAP FILLED WITH MINERAL OIL, OR A TRAP PRIMER PER MANUFACTURERS REQUIREMENTS

G. ELEVATOR PIT PUMP DISCHARGE SHALL BE PIPED TO AN OPEN SITE DRAIN IN A JANITORS CLOSE OR A MECHANICAL ROOM.

H. THE PLUMBING CONTRACTOR SHALL PROVIDE OPEN SITE DRAINS JANITORS CLOSETS OR MECHANICAL ROOMS FOR DRAINING DOWN THE MAIN SPRINKLER RISERS, AND/OR COMBINATION RISERS. COORDINATE THE DISCHARGE RATE OF THE FIRE WATER RISERS WITH THE FIRE PROTECTIONS CONTRACTOR.

I. ALL HORIZONTAL DRY VENTS ARE TO BE INSTALLED AT ANGLE NO LESS THAN 45° FROM THE VERTICAL.

J. DRAINAGE AND VENT SYSTEMS SHALL BE PRESSURE TESTED USING WATER OR AIR.

K. THE PLUMBING CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL FLOOR DRAINS SUBJECT TO EVAPORATION TO PREVENT THE LOSS OF THE TRAP SEAL.

L. ALL VERTICAL PIPING SHALL BE SECURED AT INTERVALS AND MAINTAINED IN ALIGNMENT WITH SUPPORTS AT INTERVALS OF 10' TO CARRY THE WEIGHT OF THE PIPE AT MAXIMUM CAPACITY. TRAP ARMS IN EXCESS OF 3' SHALL BE SUPPORTED AS CLOSE AS POSSIBLE TO THE TRAP.

M. ALL STACKS SHALL BE SUPPORTED AT THEIR BASE AND EACH FLOOR BY FLOOR CLAMPS. PLASTIC WASTE STACKS WITH HANGERS AND CLMAPS SHALL NOT COMPRESS, DISTORT, CUT, OR ABRADE THE PIPE. WIRE PIPE HOOKS SHALL NOT BE USED TO SUPPORT PLASTIC PIPE.

18. MATERIALS

A. UNDERGROUND STORM, DRAINAGE, AND VENT PIPE SHALL BE: CAST-IRON PIPE, HUB SPIGOT: ASTM A-74; ASTM A-888; CISPI 301

B. ABOVE-GROUND STORM, DRAINAGE AND VENT PIPE SHALL BE: CAST-IRON PIPE, HUB & SPIGOT: ASTM A-74; CISPI 301; ASTM A888 COPPER OR COPPER-ALLOY PIPE: ASTM B-42; ASTM B-302 COPPER OR COPPER-ALLOY TUBING (TYPE K OR L): ASTM 75; ASTM B-88; ASTM B-251; ASTM B-306 GALVANIZED STEEL PIPE: ASTM A-53

C. UNDERGROUND WATER SERVICE PIPE SHALL BE: COPPER OR COPPER-ALLOY TUBING (TYPE K); ASTM B-74; ASTM B-88; ASTM B-251; ASTM B-447 DUCTILE IRON WATER PIPE (CEMENT LINED); AWWA C-151; AWWA C-115

D. ABOVE-GROUND WATER DISTRIBUTION PIPE SHALL BE: ALL SIZES - COPPER OR COPPER-ALLOY TUBING (TYPE K OR L); ASTM B-74; ASTM B-88; ASTM B-251; ASTM B-4476" AND LARGER - GALVANIZED STEEL PIPE: ASTM A-53

E. ABOVE-GROUND SOLAR PIPE SHALL BE: ALL SIZES - BRAZED COPPER OR COPPER- ALLOY PIPING (TYPE K OR L).

F. GASKETED BELL AND SPIGOT C.I. PIPING IS RESERVED FOR UNDERGROUND USE. ABOVE GROUND SHALL BE CAULKED JOINTS.

G. COMMON UNDERGROUND WATER SERVICE PIPING TO DOMESTIC AND FIRE PROTECTION WATER SUPPLY SHALL BE DUCTILE IRON PIP AND PIPE FITTINGS: AWWA C-151; AWWA C-110; POLYETHYLENE PE PIPE AND FITTING: AWWA C-906; OR POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS: AWWA C-900.

H. EXPANSION JOINT MATERIAL SHALL CONFORM TO THE TYPE OF THE PIPING ON WHICH IT IS INSTALLED.

19. ADDITIONAL REQUIREMENTS

A. FOR EXACT LOCATION OF PLUMBING FIXTURES, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS.

B. PROVIDE HANGERS AND SUPPLEMENTAL SUPPORT STEEL FOR ALL EQUIPMENT AND PIPING. ALL WATER SUPPLY PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS WITH PIPE COVERING PROTECTION SADDLES OR SHEET METAL INSULATION SHIELDS.

C. PIPE HANGARS ON INSULATED PIPING SHALL HAVE BLOCKING OR OTHER MEANS TO SUPPORT THE PIPE WITHOUT COMPRESSING THE INSULATION OR COMPROMISING THE VAPOR BARRIER.

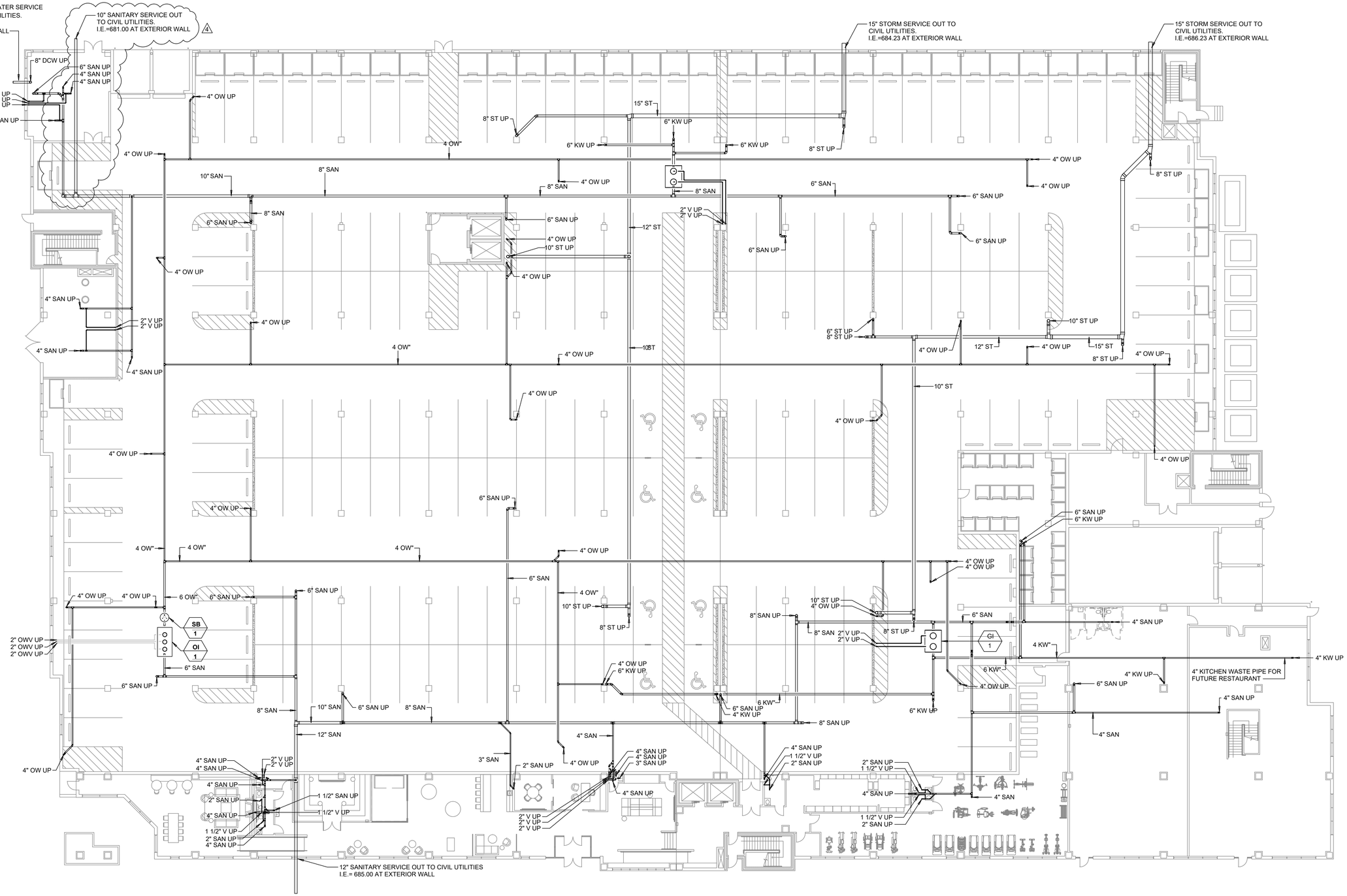
D. PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT IN MECHANICAL ROOMS SUCH AS ISOLATION VALVES, RECIRCULATION PUMPS, ETC. SHALL BE INSTALLED AT A REASONABLE HEIGHT IN ORDER TO FACILITATE MAINTENANCE.

E. EXCEPT FOR PIPING ASSOCIATED WITH THE SUMP PUMPS, PLUMBING PIPING SHALL NOT BE ROUTED THROUGH OR OVER ANY ELEVATOR SHAFTS, ELEVATOR EQUIPMENT AREAS, ELECTRICAL ROOMS/EQUIPMENT AREAS, OR COMMUNICATIONS AREAS.

F. IN ANY CASE WHERE NEW EQUIPMENT IS INSTALLED AND HAS TO BE CONNECTED TO EXISTING SYSTEMS, THE PLUMBING CONTRACTOR SHALL VERIFY THE CAPACITIES AT THE INDICATED POINT OF CONNECTION. SHOULD THE EXISTING CONDITION REQUIRE THE NEW BRANCH TO BE ROUTED TO ANOTHER LOCATION, THE PLUMBING CONTRACTOR SHALL PERFORM THIS WORK AS PART OF THEIR CONTRACT.

G. FACTORY MUTUAL RESEARCH CORPORATION APPROVED EQUIPMENT SHALL BE PROVIDED WHERE APPLICABLE AND DETAILS OF THE INSTALLATIONS SHALL CONFORM TO FACTORY MUTUAL' S RECOMMENDED PRACTICES

H. CONTRACT



1 **UNDERGROUND PLUMBING PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCH ITECT
RLJ JR
TEC NH I CI ANS
JMB
COMMI SSION NUMBER
2793
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15 APR 2021

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JONES & JONES ASSOCIATES ARCHITECTS PC

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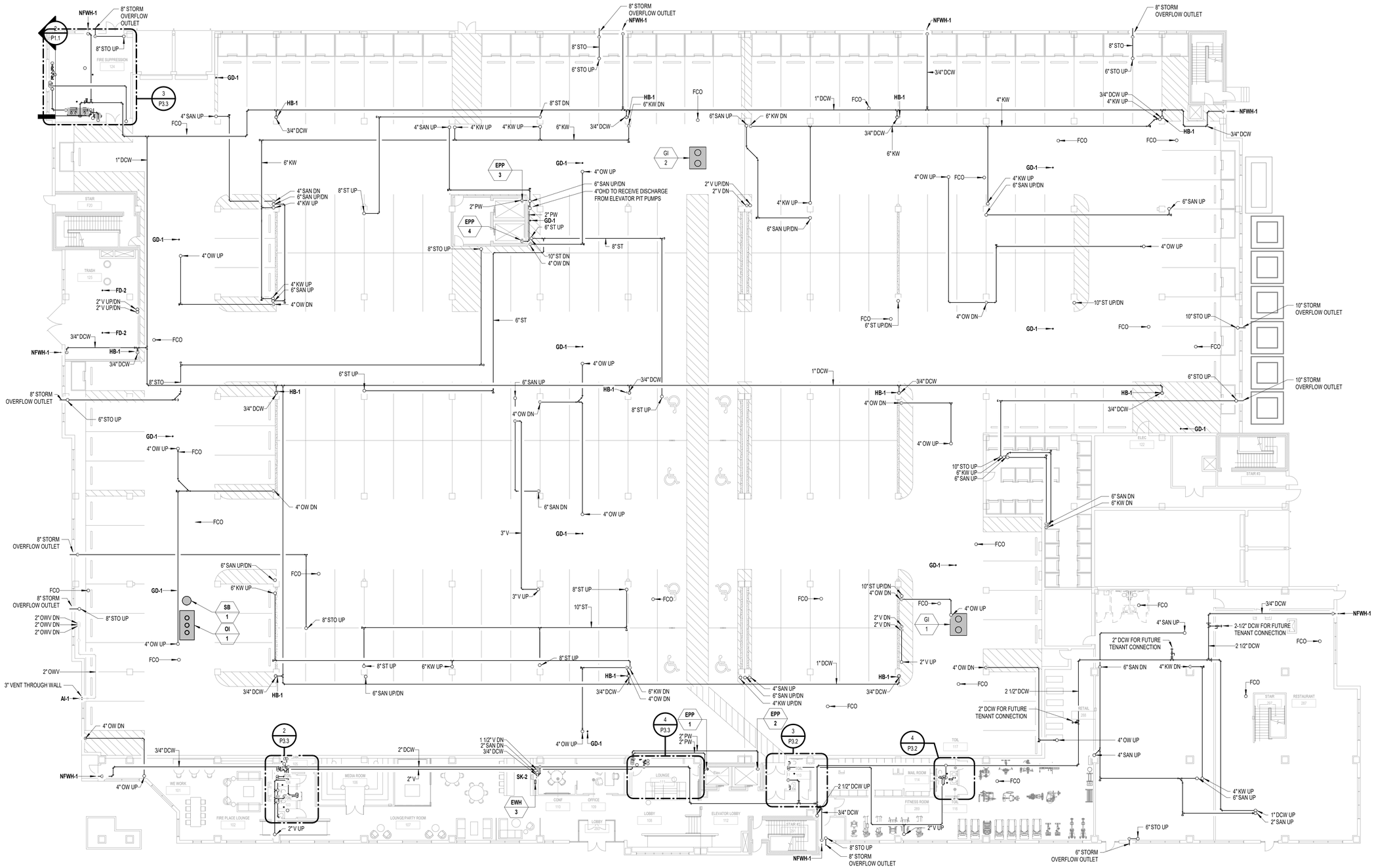
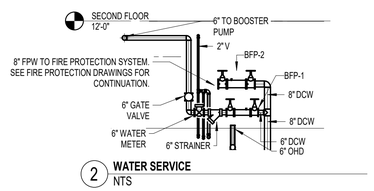


1 **FIRST FLOOR - PLUMBING PLAN**
1/16" = 1'-0"

0' 4' 8' 16' 32'



2 **WATER SERVICE**
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1 **SECOND FLOOR-PLUMBING_ PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

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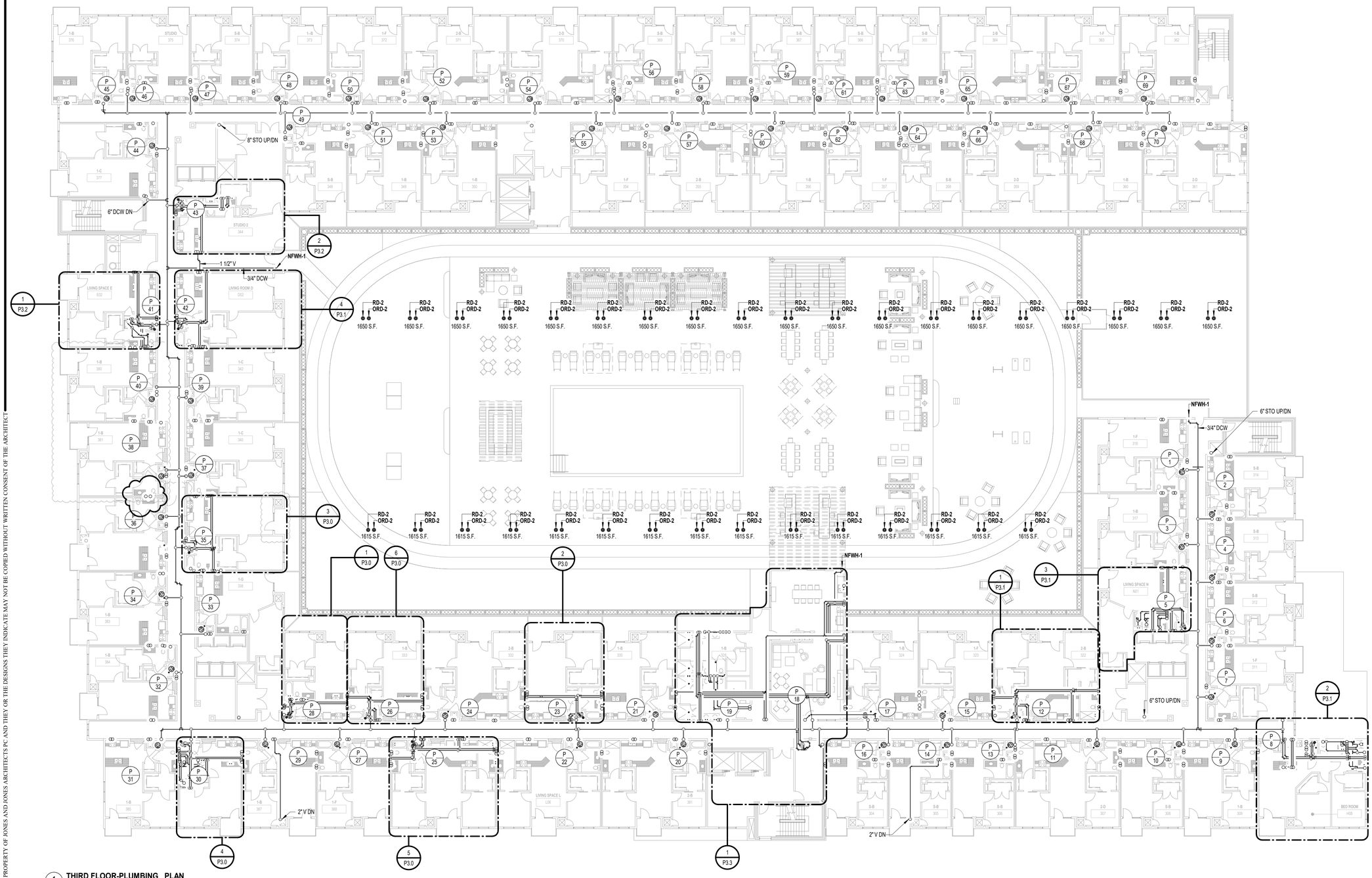

1 THIRD FLOOR-PLUMBING_ PLAN
1/16" = 1'-0"

0' 8' 16' 32' 64'

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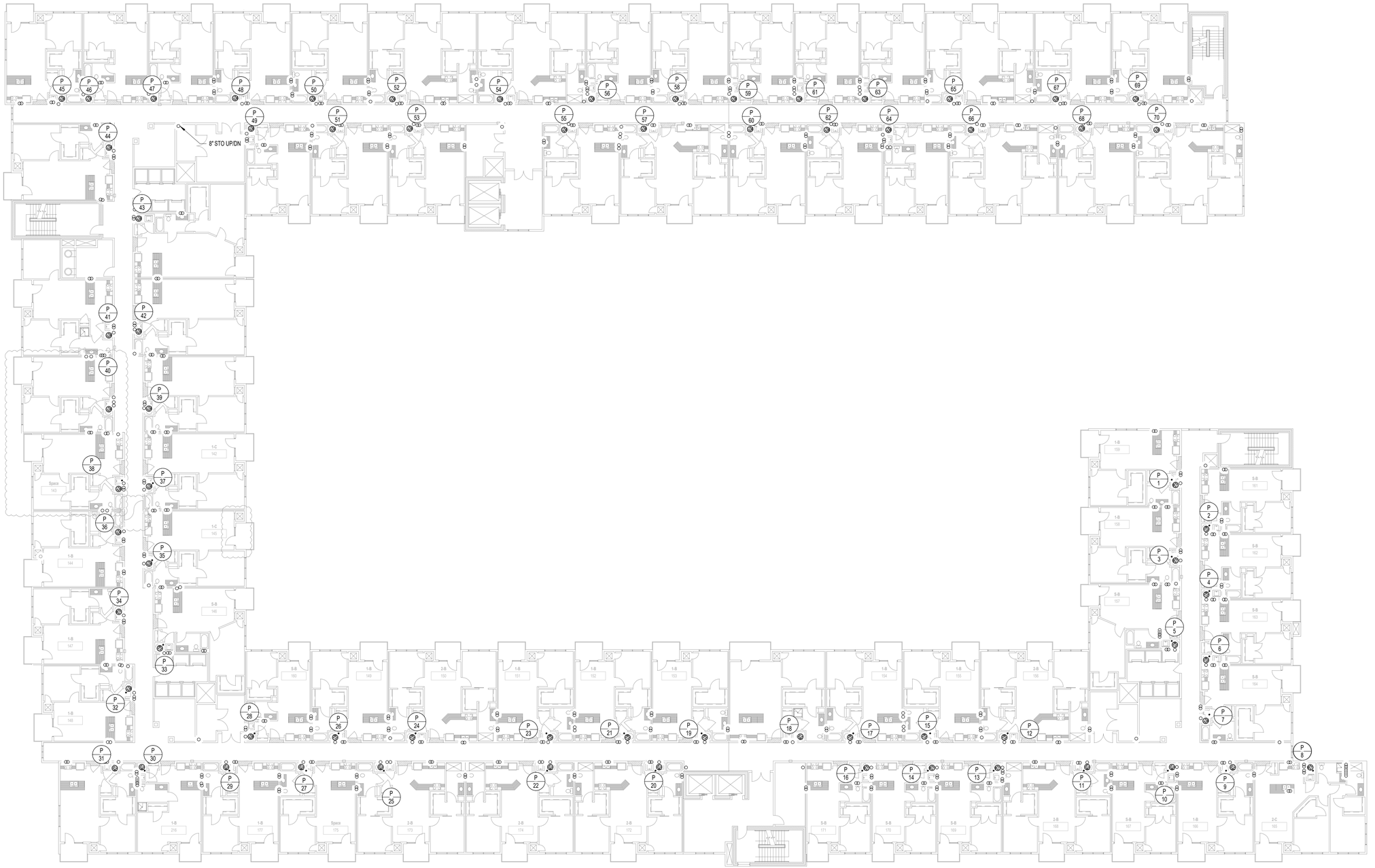

1 TYPICAL FOURTH THROUGH SIXTH FLOOR-PLUMBING PLAN
1/16" = 1'-0"

0' 8' 16' 32' 64'

N

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1 **SEVENTH FLOOR-PLUMBING PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

N

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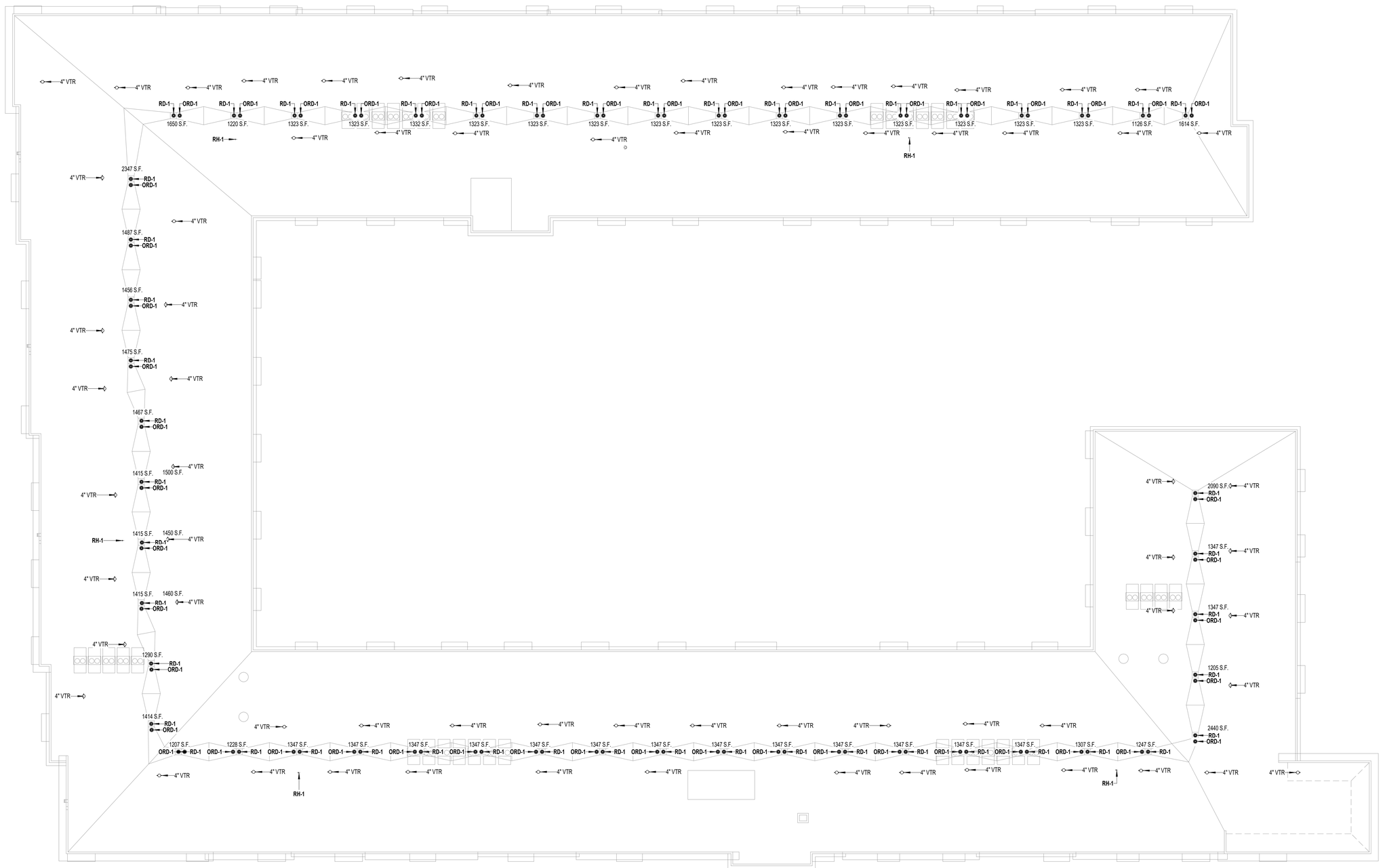

1 ROOF-PLUMBING_ PLAN
1/16" = 1'-0"

0' 4' 8' 16' 32'

N

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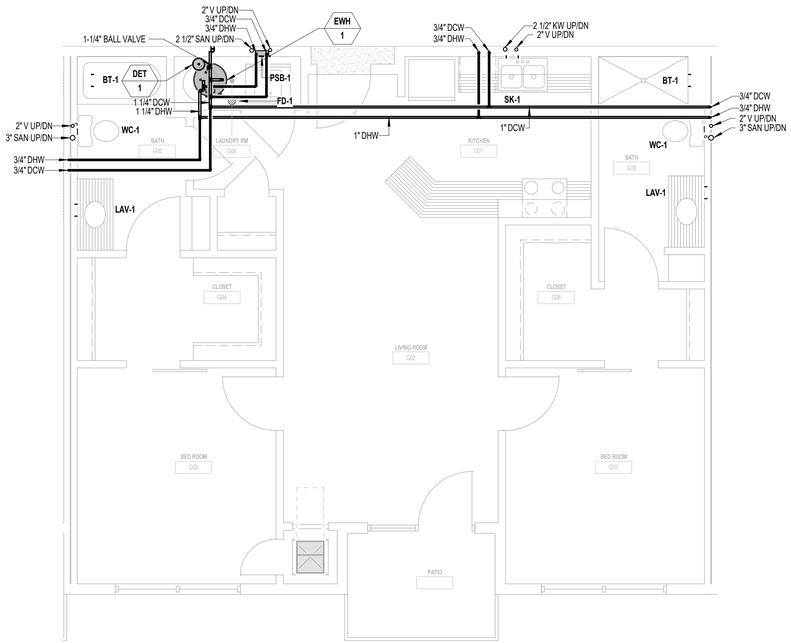
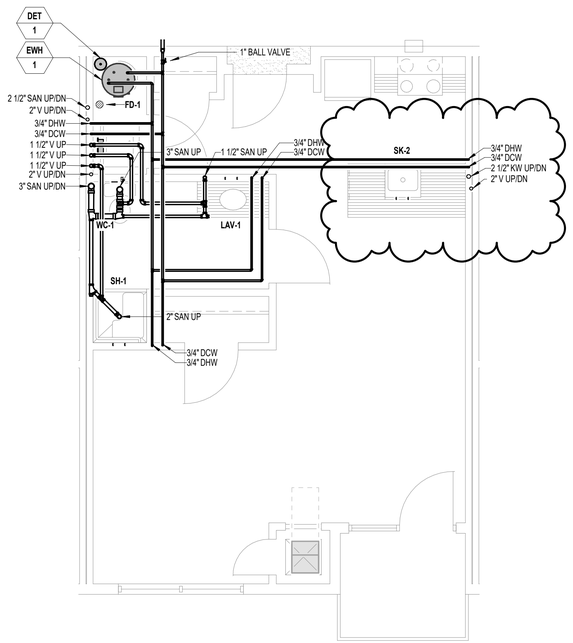
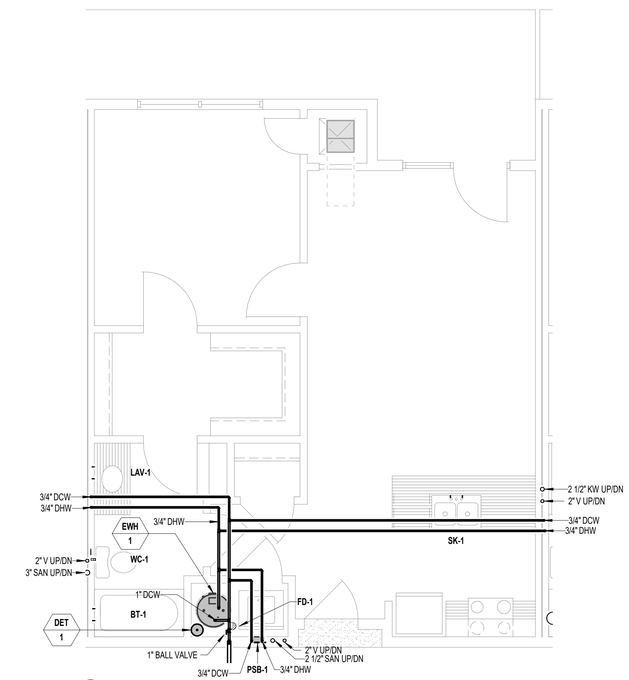


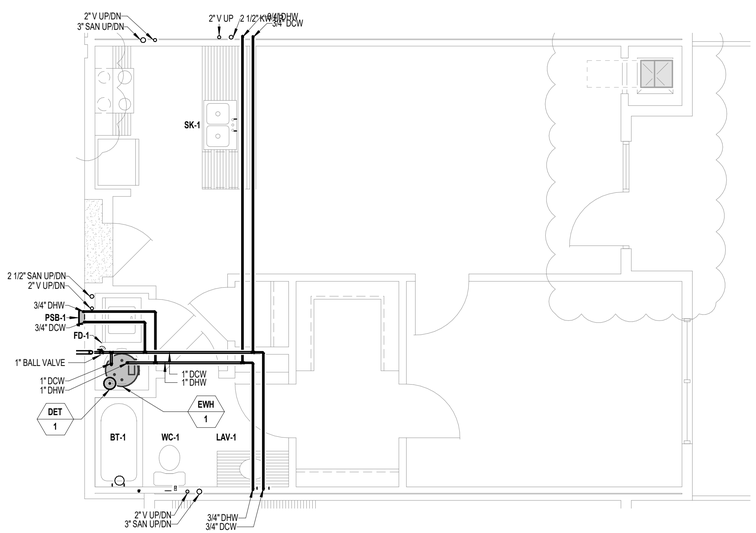
5 **TWO BEDROOM UNIT - TYPE L - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



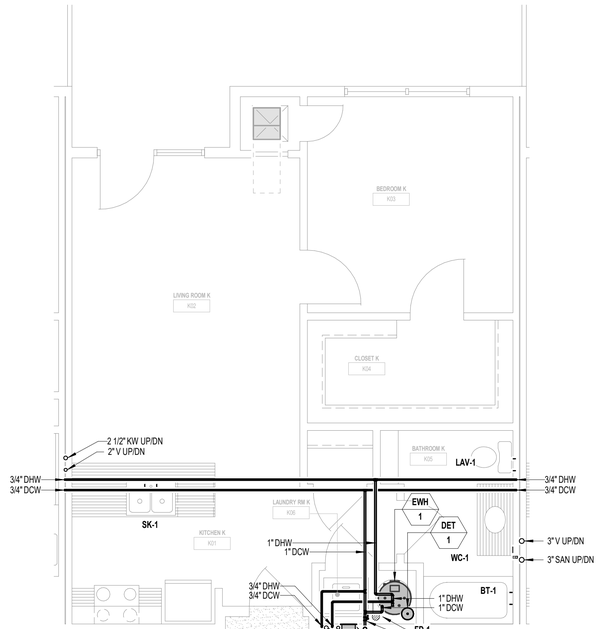
4 **STUDIO UNIT - TYPE M - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



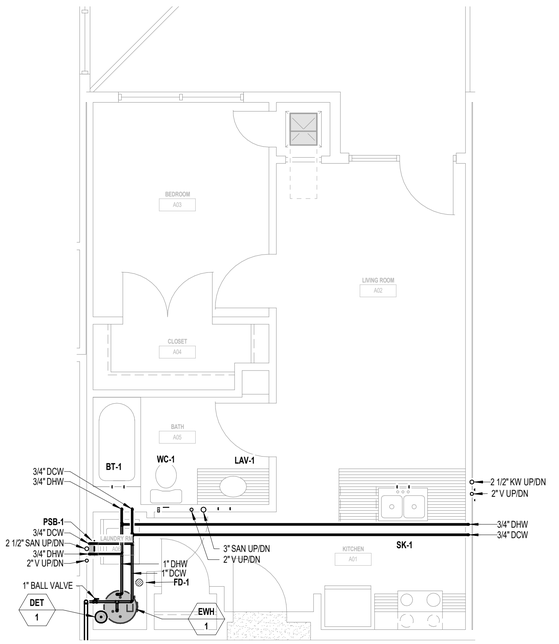
6 **ONE BEDROOM UNIT - TYPE B - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



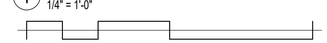
3 **ONE BEDROOM UNIT - TYPE C - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



2 **ONE BEDROOM UNIT - TYPE K - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



1 **ONE BEDROOM UNIT - TYPE A - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



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TECHNICIANS
JMB
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15 APR 2021

P3.0

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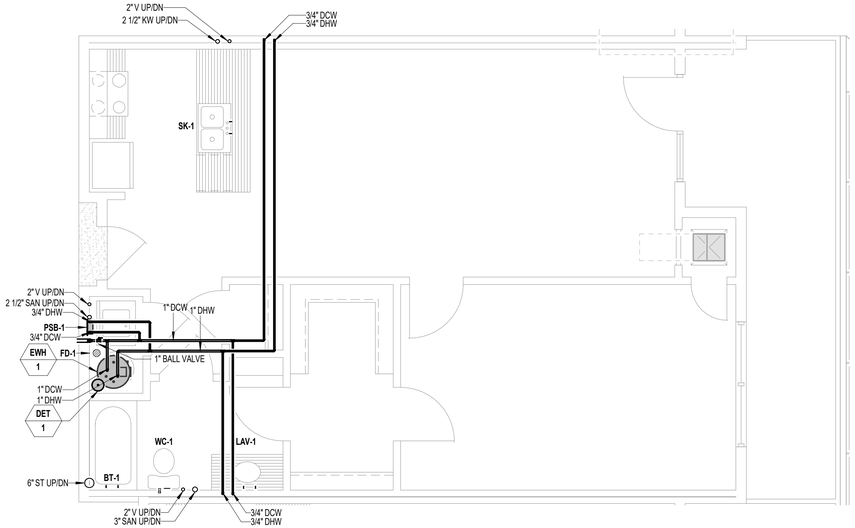
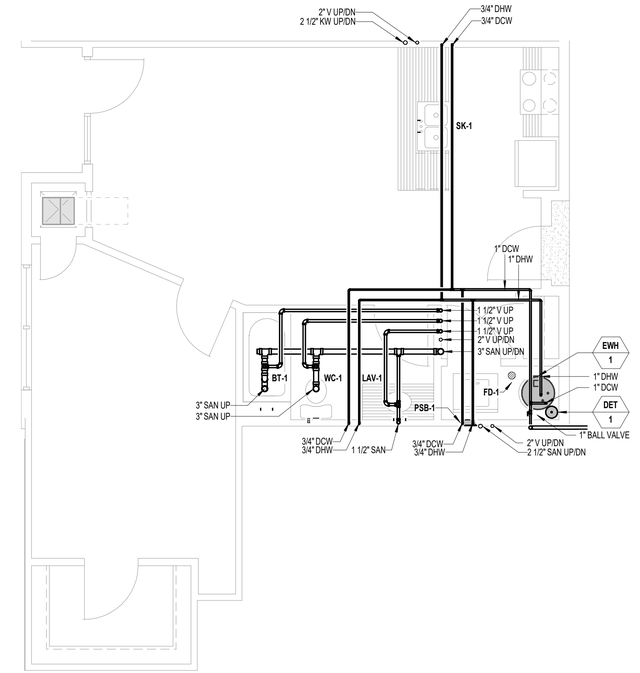


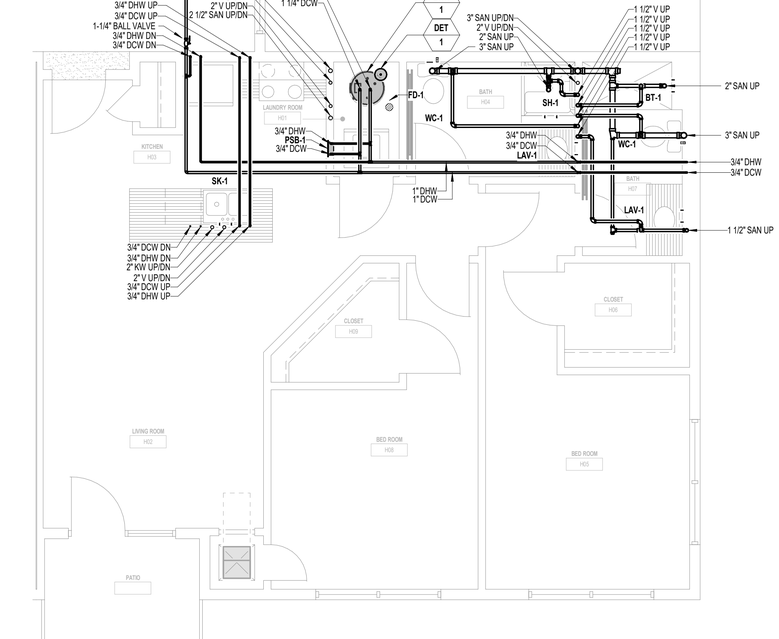
4 **ONE BEDROOM UNIT - TYPE D - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



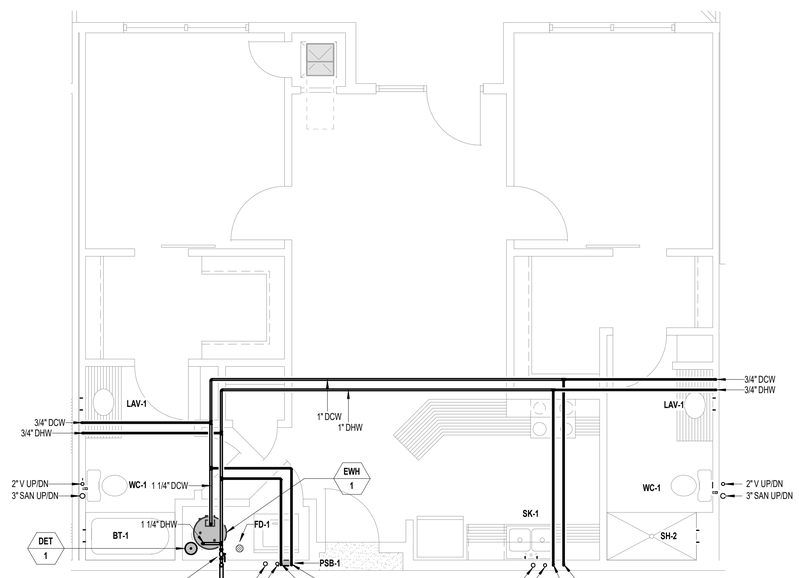
3 **ONE BEDROOM UNIT - TYPE N - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **TWO BEDROOM UNIT - TYPE H - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **TWO BEDROOM UNIT - TYPE G - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'

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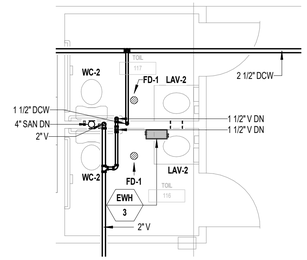
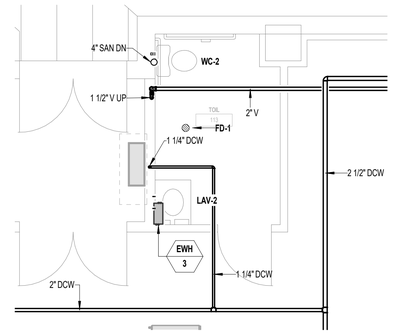


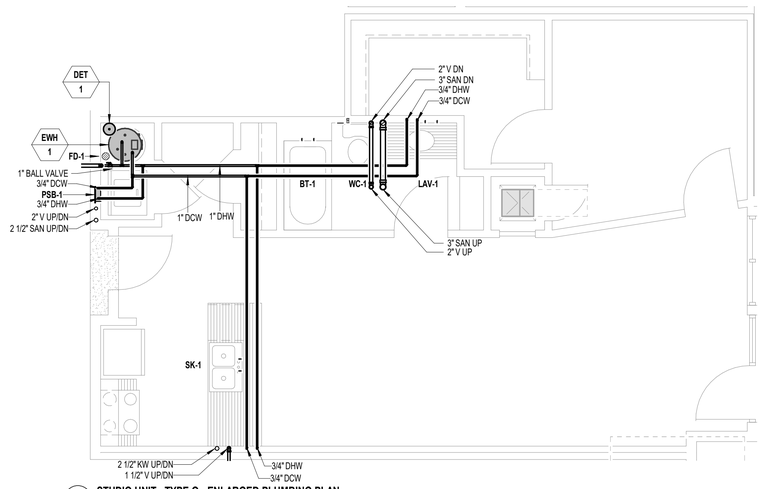
4 FIRST FLOOR BACK TO BACK RESTROOM - ENLARGED PLUMBING PLAN
1/4" = 1'-0"

0' 2' 4' 8' 16'



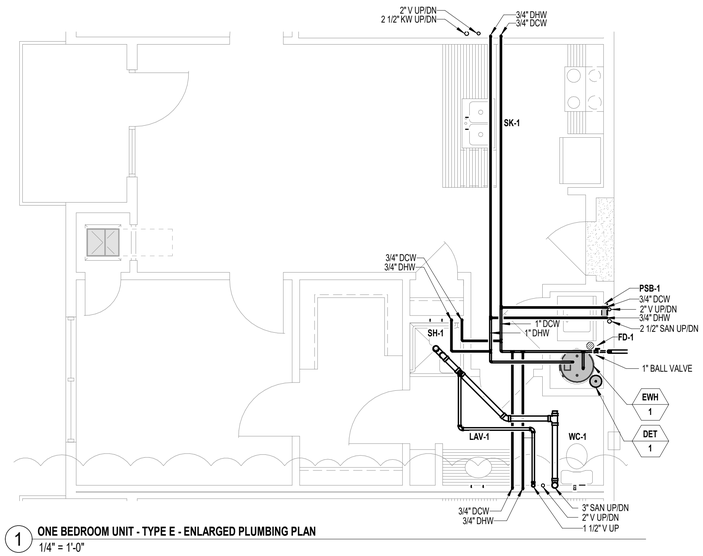
3 FIRST FLOOR SINGLE RESTROOM - ENLARGED PLUMBING PLAN
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 STUDIO UNIT - TYPE O - ENLARGED PLUMBING PLAN
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 ONE BEDROOM UNIT - TYPE E - ENLARGED PLUMBING PLAN
1/4" = 1'-0"

0' 2' 4' 8' 16'

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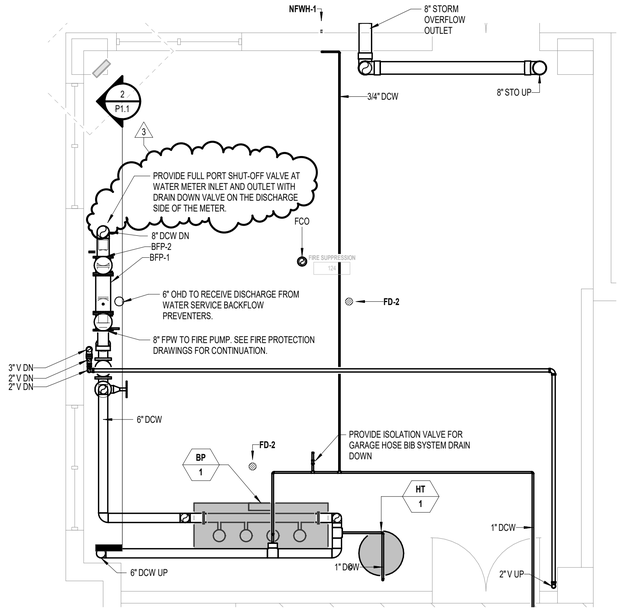
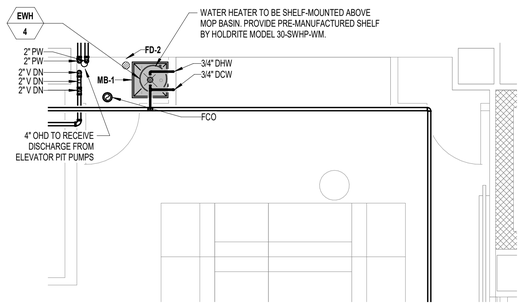
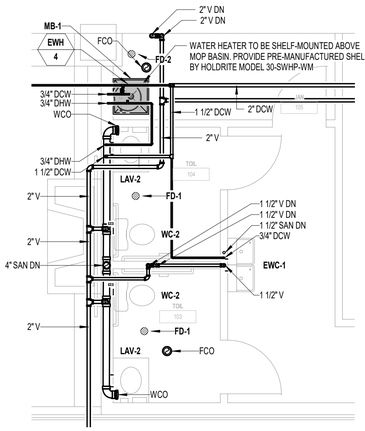


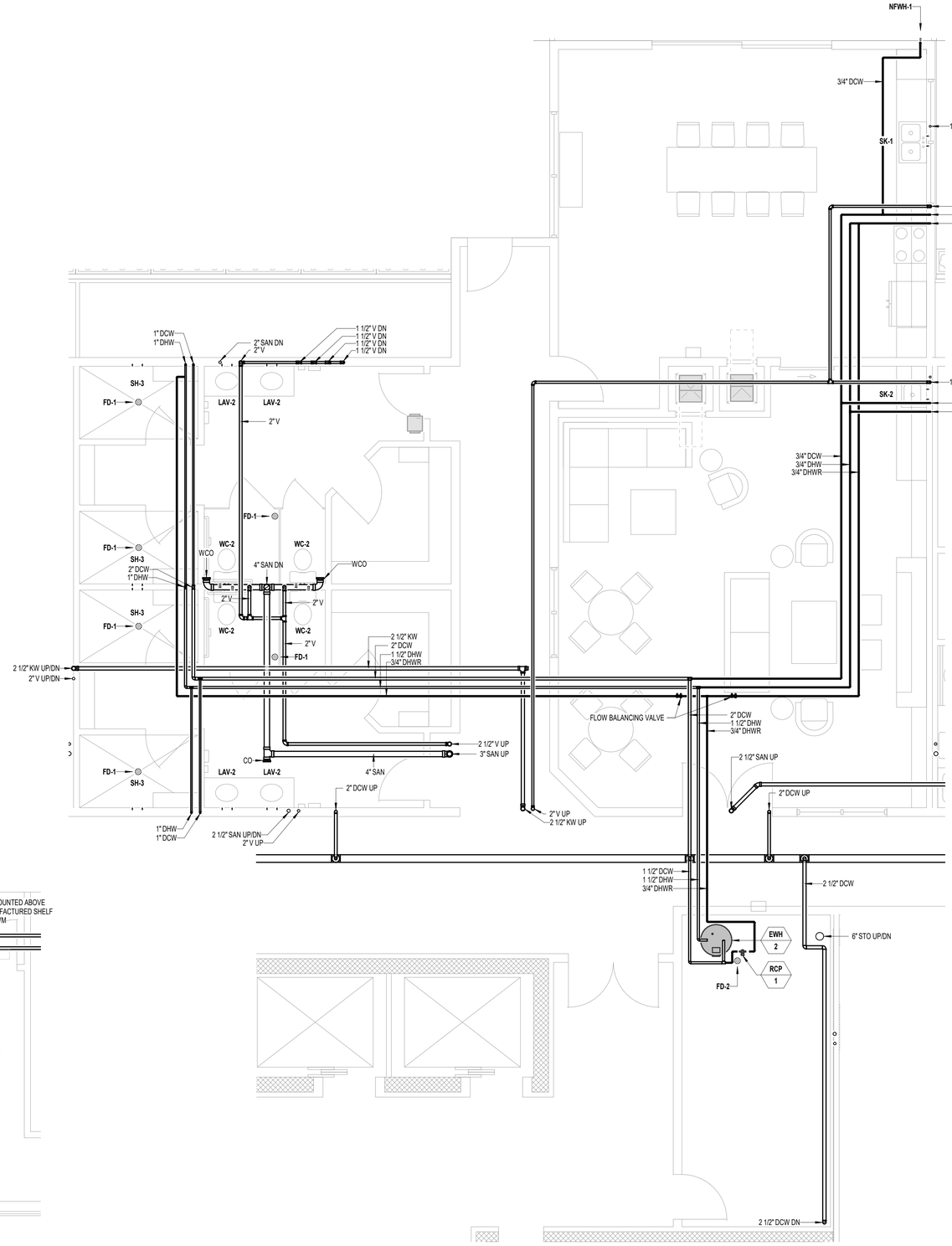
3 **FIRST FLOOR WATER SERVICE AND PUMP ROOM - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



4 **LOUNGE AND JANITORS CLOSET - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



2 **FIRST FLOOR RESTROOM AND JANITORS CLOSET - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"



1 **THIRD FLOOR RESTROOM AND COMMON AREA - ENLARGED PLUMBING PLAN**
1/4" = 1'-0"

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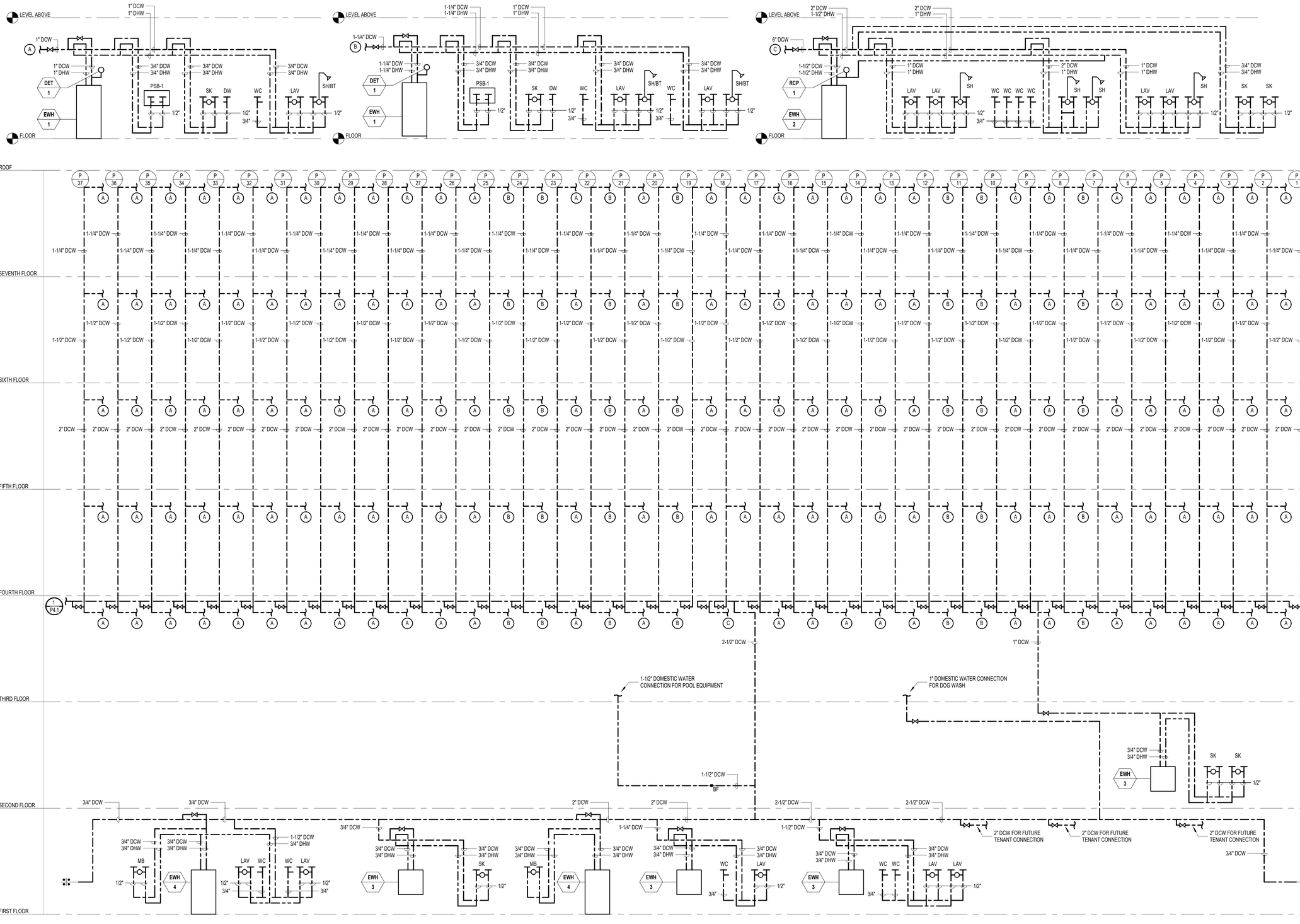

1 **PLUMBING RISER - SUPPLY - A**
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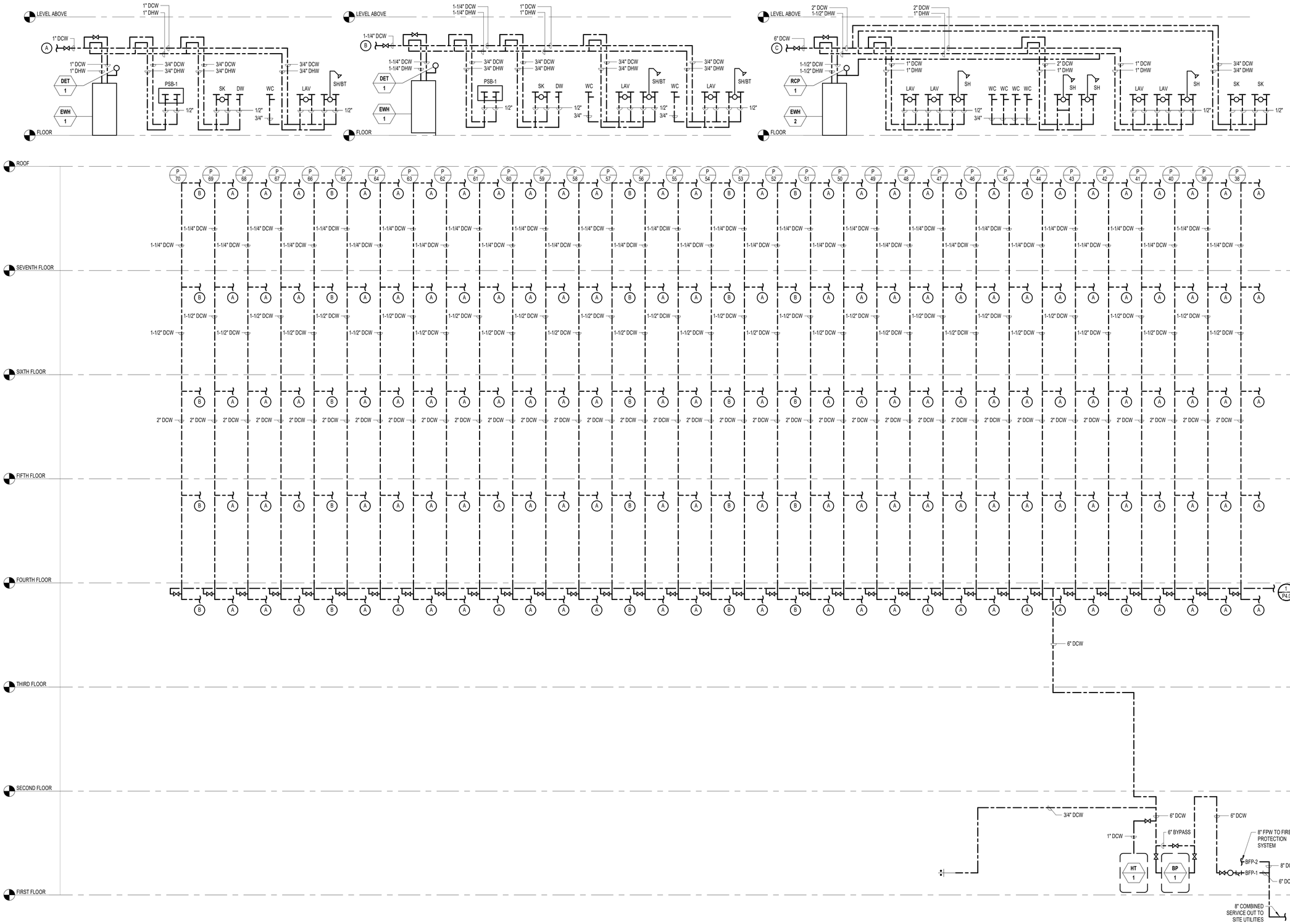

1 PLUMBING RISER - SUPPLY - B
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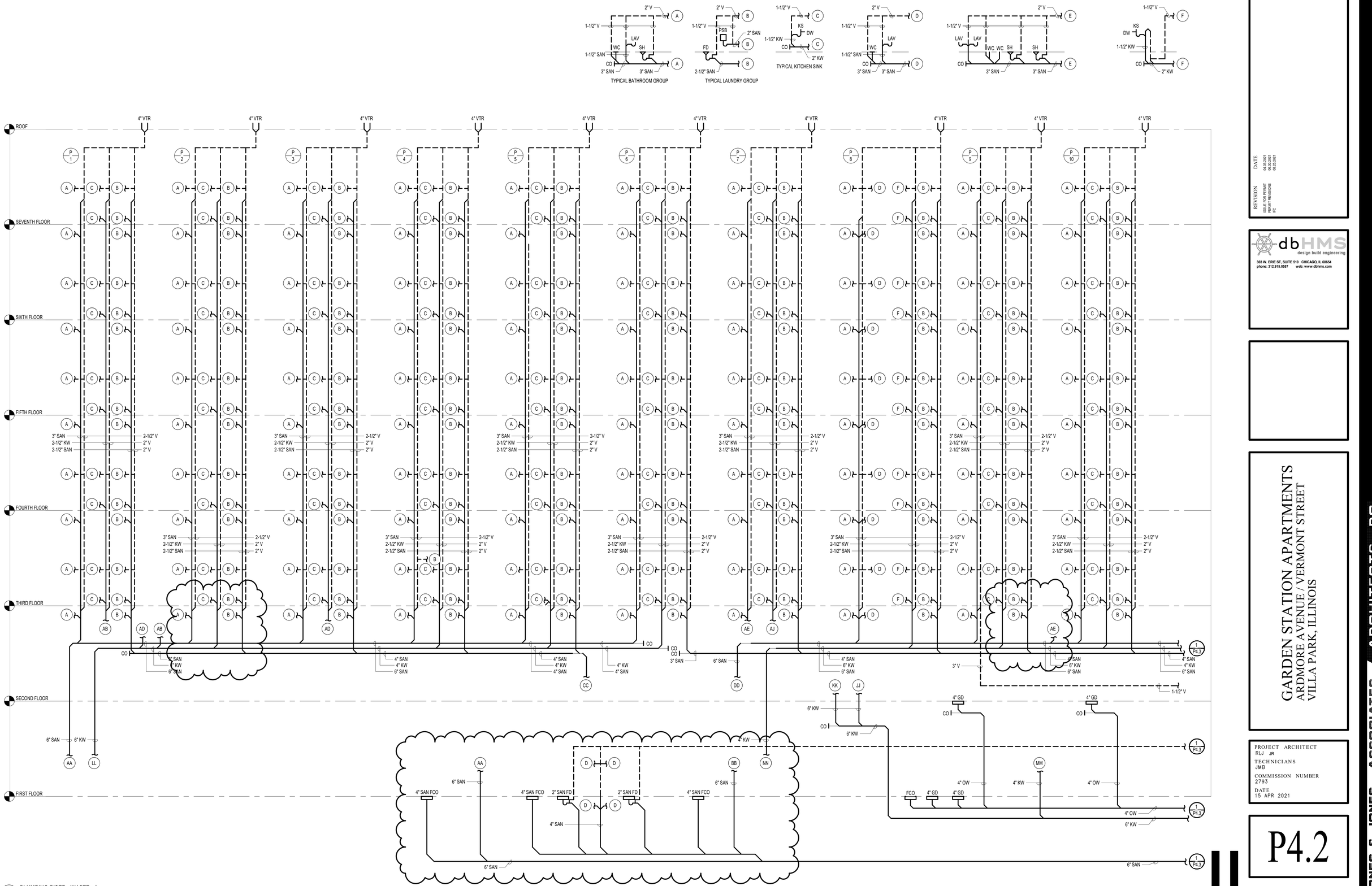

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

P4.2

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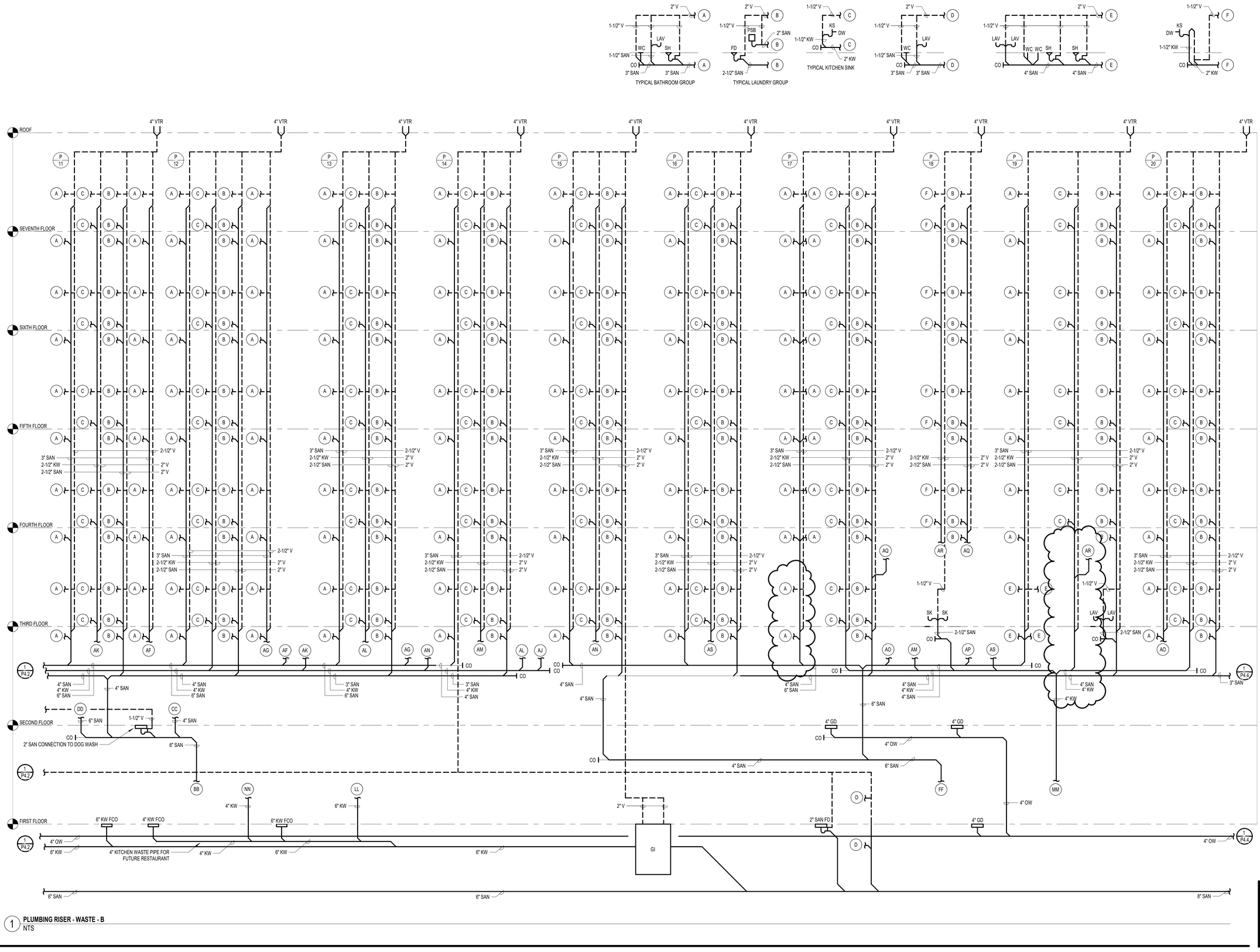

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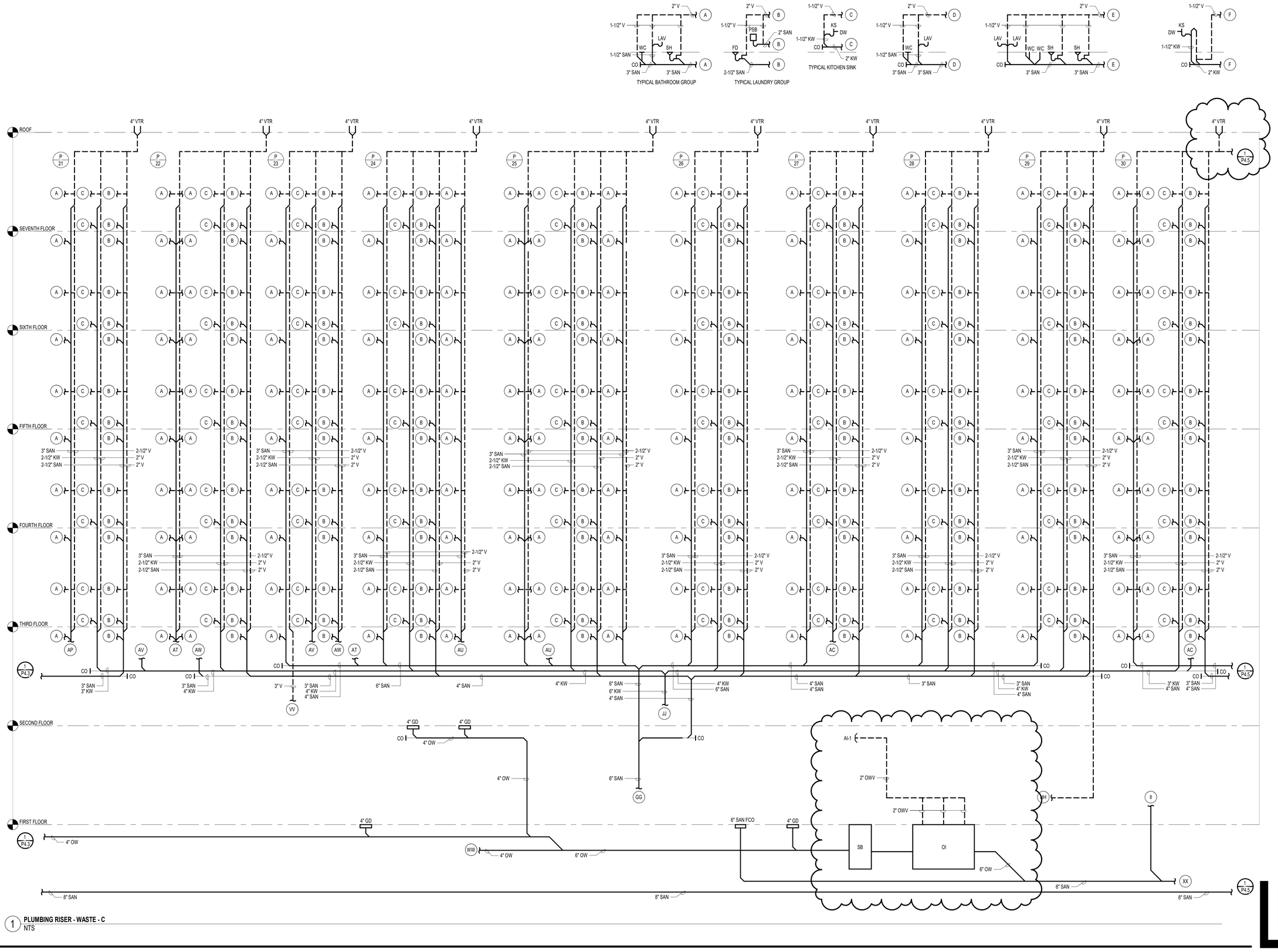

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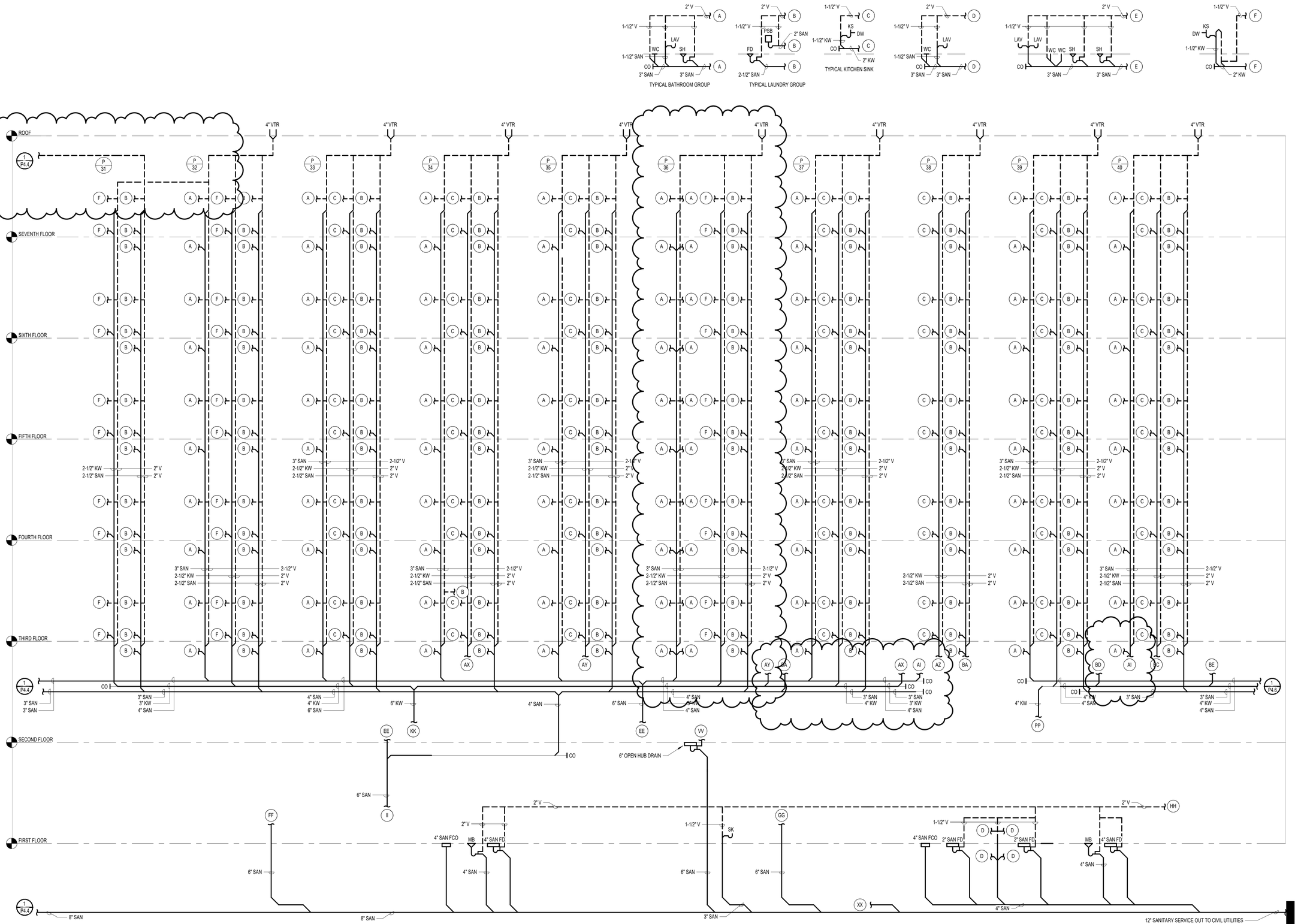

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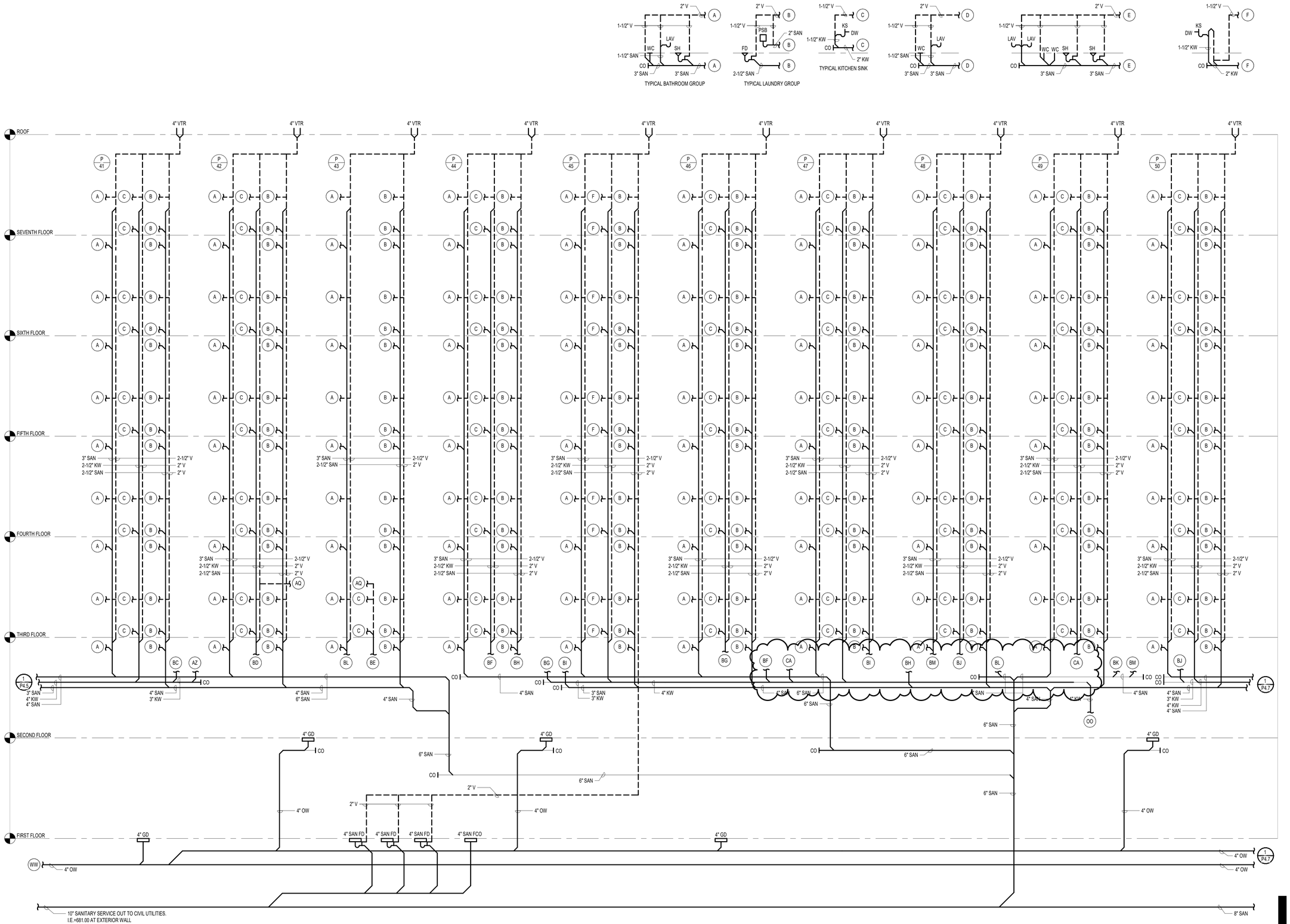

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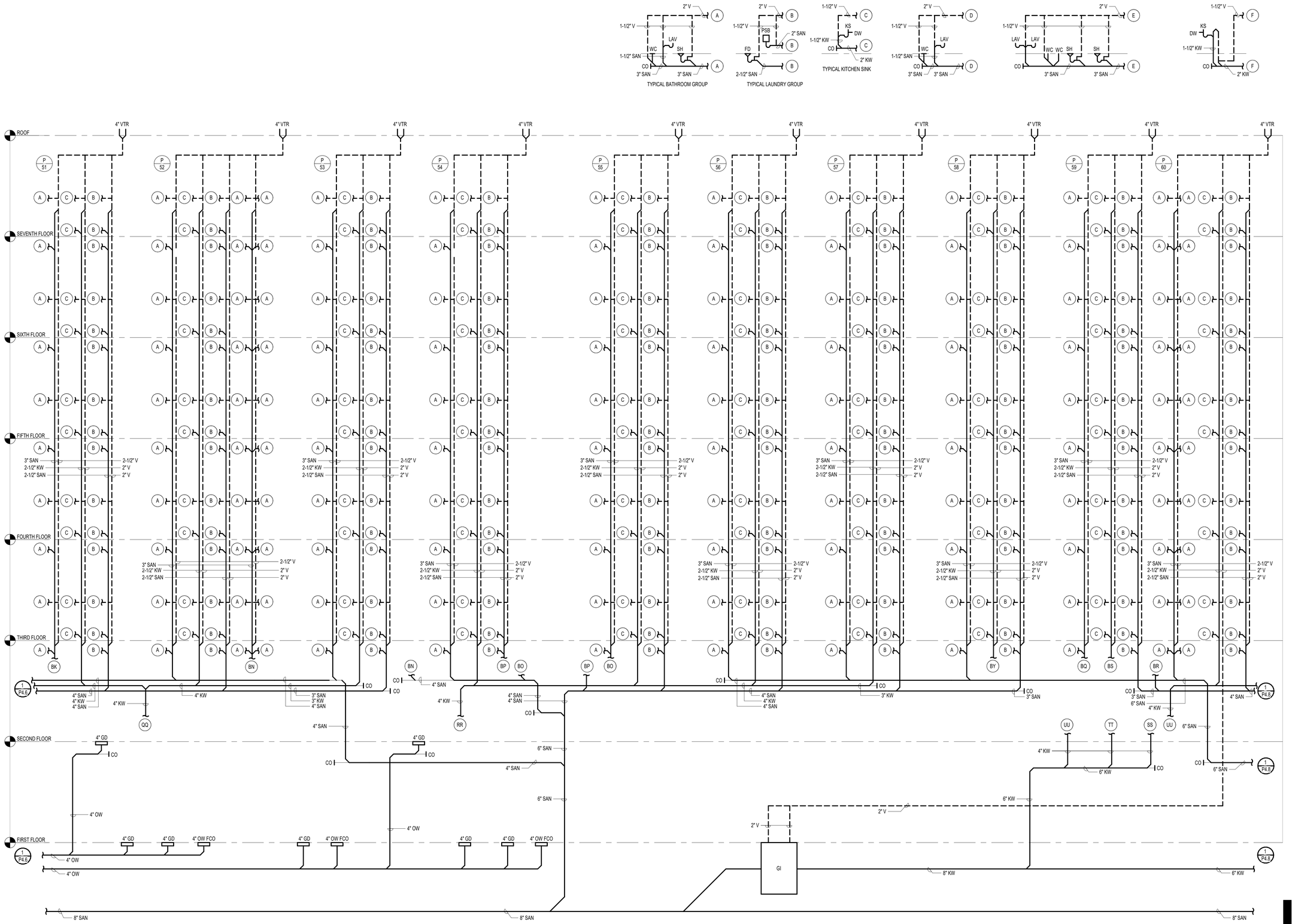

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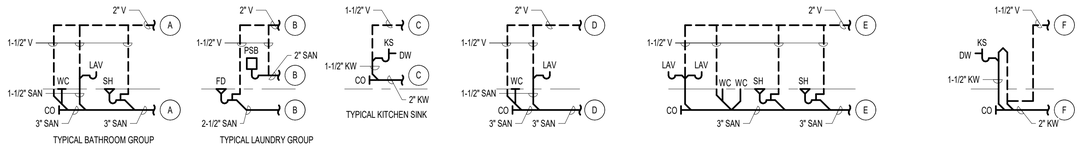

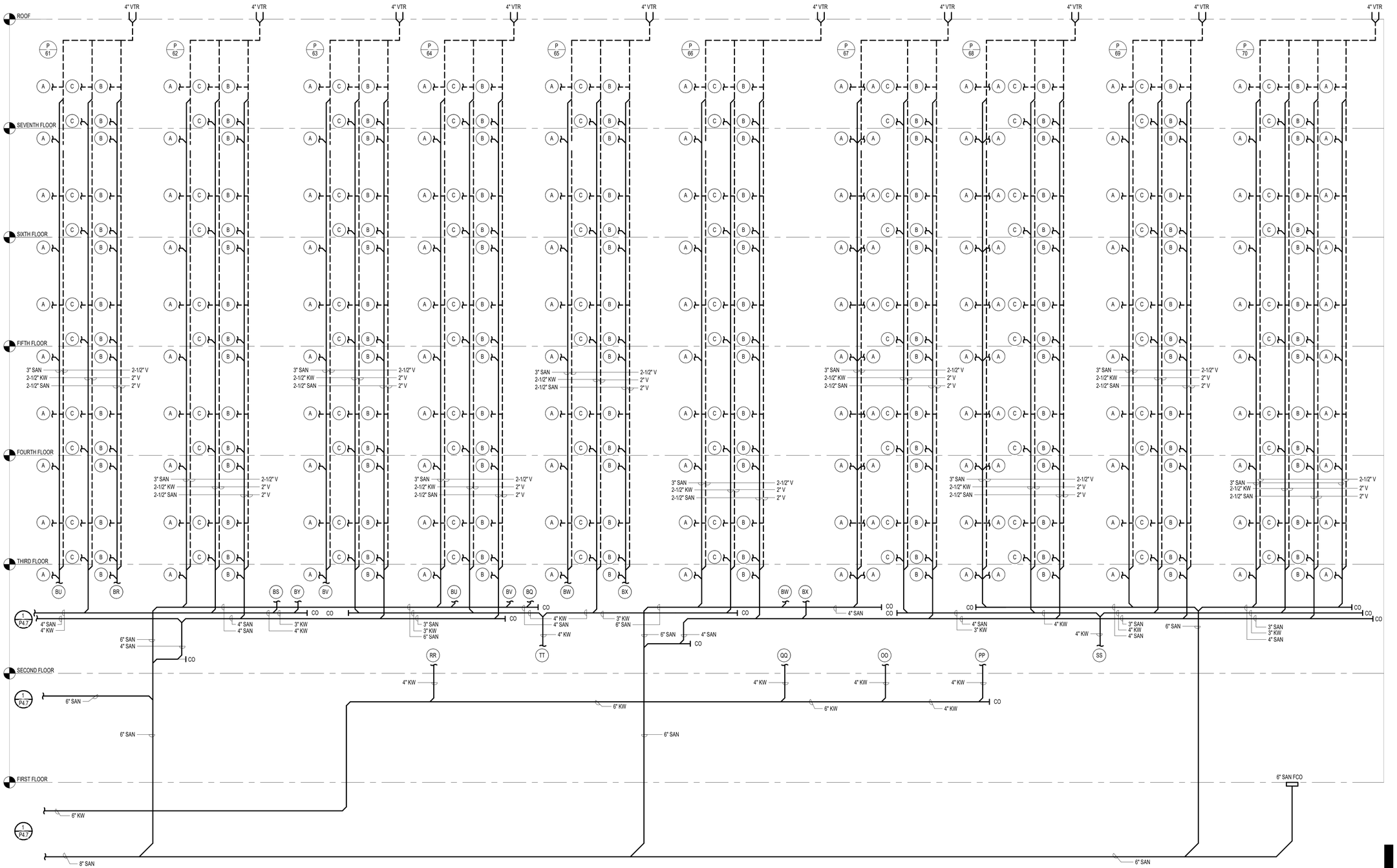

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PLUMBING FIXTURES

TAG	GPM/GPF	FIXTURE				FAUCET/VALVE			REMARKS
		TYPE	FINISH	MANUFACTURER	MODEL	TYPE	MANUFACTURER	MODEL	
BT-1	1.5	BATH TUB	ENAMELED STEEL	AMERICAN STANDARD	0255.112	HANDHELD SHOWER SYSTEM W/ TUB DIVERTER	MOEN	52710EP15	1,2,3,4,7,8
LAV-1	1.2	UNDERMOUNT LAVATORY	VITREOUS CHINA	AMERICAN STANDARD	9482.000	SINGLE HOLE MANUAL	MOEN	40051	8
LAV-2	0.5	UNDERMOUNT LAVATORY	VITREOUS CHINA	AMERICAN STANDARD	9482.000	SINGLE HOLE BATTERY POWERED AUTOMATIC	MOEN	CA8301	5,6
MB-1	UNRESTRICTED	MOP BASIN	TERRAZZO	FIAT	TSB-200	WALL-MOUNTED MANUAL	MOEN	8230	
SH-1	1.5	SHOWER BASIN	CAST ACRYLIC	AQUATIC	1363BFRF	SHOWER VALVE W/ HANDHELD SHOWER SYSTEM	AQUATIC	--	2,3,8
SH-2	1.5	SHOWER BASIN	CAST ACRYLIC	AQUATIC	F6032APAN	SHOWER VALVE W/ SHOWER TRIM	MOEN	8375EP15	2,3,8
SH-3	1.5	SEE ARCHITECTURAL DRAWINGS FOR BASIN DESIGN	--	--	--	SHOWER VALVE W/ SHOWER SHOWER VALVE W/ HANDHELD SHOWER SYSTEMTRIM	MOEN	8342	2,3
SK-1	1.5	DROP-IN DOUBLE BASIN	STIANLESS STEEL	AMERICAN STANDARD	22DB.6332283C.075	3-HOLE SINGLE HANDLE MANUAL	MOEN	87017	
SK-2	1.5	DROP-IN SINGLE BASIN	STAINLESS STEEL	AMERICAN STANDARD	22SB.6252283S.075	3-HOLE SINGLE HANDLE MANUAL	MOEN	87017	
WC-1	1.0	FLOOR MOUNTED WATER CLOSET	VITREOUS CHINA	AMERICAN STANDARD	238AA.115.020	FLUSH TANK	--	--	8
WC-2	1.1	FLOOR MOUNTED FLUSH VALVE	VITREOUS CHINA	AMERICAN STANDARD	3043.001	BATTERY POWERED AUTOMATIC	AMERICAN STANDARD	6066.111.002	

1. SHOWER-BATH COMBINATION VALVES TO BE ADJUSTED TO A MAXIMUM SETTING OF 115°F AT TIME OF INSTALLATION.
2. PROVIDE SHOWER SPRAY UNITS WITH HOSE 59" MINIMUM IN LENGTH FOR USE AS FIXED POSITION AND HAND HELD SHOWER HEAD. ALL ADJUSTABLE HEIGHT SHOWER HEADS TO BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS.
3. ALL HAND HELD SHOWER SPRAY UNITS TO BE INSTALLED WITH ATMOSPHERIC VACUUM BREAKER ON THE HOSE SUPPLY FITTING.
4. BATHTUB SHOWER SPRAY UNITS SHALL DELIVER WATER THAT DOES NOT EXCEED MAXIMUM TEMPERATURE 120°F.
5. PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE BY LEONARD VALVE MODEL 270-LF OR SIMILAR. SET TEMPERATURE TO 110°F AT TIME OF INSTALLATION.
6. LAVATORIES TO BE COVERED WITH PROTECTIVE GUARDS AND SHALL NOT HAVE EXPOSED WATER OR WASTE PIPE, OR ANY ABRASIVE SURFACES.
7. PROVIDE VALVE AND TUB DIVERTER BY MOEN MODEL TL183NH.
8. FIXTURE TO BE WATERSENSE CERTIFIED.

DOMESTIC WATER HEATER

TAG		QTY.	UNIFORM ENERGY FACTOR (UEF)	STORAGE CAPACITY (GAL)	DOMESTIC WATER INLET TEMP. (F)	DOMESTIC WATER OUTLET TEMP. (F)	ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS
ABBR.	#						KW	VOLTS	PH			
EWH	1	348	3.42	50	40	120	4.5	208 V	1	AO SMITH	FPTU-50	--
EWH	2	1	--	66	40	140	6	480 V	3	AO SMITH	DEN-66	--
EWH	3	2	--	--	40	105	3.5	120 V	1	EEMAX	SPEX3512T	--
EWH	4	3	--	10	40	140	3	120 V	1	AO SMITH	DEL-15	--

DOMESTIC BOOSTER PUMP

TAG		TOTAL CAPACITY (GPM)	MIN. SUCTION (PSI)	DISCHARGE PRESSURE (PSI)	PUMP QUANITY	EACH PUMP CAPACITY (%)	ELECTRICAL DATA				MANUFACTURER	MODEL	REMARKS
ABBR.	#						HP (EACH PUMP)	HP (TOTAL)	VOLTS	PH			
BP	1	450	28	75	4	25	5	20	480 V	3	BELL & GOSSETT	TECHNOFORCE E-MT	1.

1. PROVIDE MANUFACTURER RECOMMENDED HYDROPNEUMATIC TANK.

ELEVATOR PIT PUMP

TAG		DISCHARGE SIZE (IN)	CAPACITY (GPM)	ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS
ABBR.	#			HP	VOLTS	PH			
EPP	1	2	50	0.5	120 V	1	ZOELLER	940-0014	1.
EPP	2	2	50	0.5	120 V	1	ZOELLER	940-0014	1.
EPP	4	2	50	0.5	120 V	1	ZOELLER	940-0014	1.
EPP	3	2	50	0.5	120 V	1	ZOELLER	940-0014	1.

1. PROVIDE OIL SMART SWITCH AND ALARM PANEL.

HOT WATER RECIRCULATION PUMP

TAG		FLOW RATE (GPM)	TOTAL DYNAMIC HEAD (PSI)	ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS
ABBR.	#			HP	VOLTS	PH			
RCP	1	5	8	0.125	120 V	1	BELL & GOSSETT	ECOCIRC 19-16	--

DRAINS

TAG	FIXTURE	MATERIAL	STRAINER DIAMETER (IN)	MANUFACTURER	MODEL	REMARKS
FD-1	FINISHED FLOOR DRAIN	CAST IRON	5"	WADE	1000-DC	--
FD-2	MECHANICAL ROOM DRAIN	CAST IRON	8"	WADE	1100-A	--
GD-1	GARAGE DRAIN	CAST IRON	12"	WADE	1217	--
ORD-1	ROOF DRAIN W/ INTEGRAL DAM	CAST IRON	16"	WADE	3000-D	--
ORD-2	LOW PROFILE STRAINER ROOF DRAIN W/ INTEGRAL DAM	CAST IRON	16"	WADE	3000-48-D	--
RD-1	ROOF DRAIN	CAST IRON	16"	WADE	3000	--
RD-2	LOW PROFILE STRAINER ROOF DRAIN	CAST IRON	16"	WADE	3000-48	--

WASTE INTERCEPTORS

TAG		FLOW (GPM)	LIQUID CAPACITY (GAL.)	SOLIDS CAPACITY (GAL.)	DIMENSIONS (IN)			MANUFACTURER	MODEL	REMARKS
ABBR.	#				WIDTH	HEIGHT	LENGTH			
GI	1	200	1500	150	5'-8"	6'-5"	10'-0"	SCHIER PRODUCTS	GGI-1500	--
OI	1	100	500	95	2'-9"	4'-3"	5'-8"	STRIEM	OS-500	--
SB	1	100	57	25	2'-4"	2'-4"	3'-1"	STRIEM	CB-50-S	--
GI	2	100	1010	103	5'-8"	6'-5"	7'-6"	SCHIER PRODUCTS	GGI-1000	--

PLUMBING SPECIALTIES

TAG		FIXTURE	MANUFACTURER	MODEL	REMARKS
ABBR.	#				
AI	1	AIR INLET	ZURN	Z1471	--
HB	1	HOSE BIBB	WOODFORD	26	1.
NFWH	1	NON-FREEZE WALL HYDRANT	WOODFORD	B65	--
PSB	1	WASHING MACHINE OUTLET BOX	GUY GRAY	FR-12	--
RH	1	DRAINLESS ROOF HYDRANT	WOODFORD	SRH	--

1. PROVIDE STEM LOCK KIT SL-24.

BACKFLOW PREVENTER

TAG		FIXTURE	SYSTEM	SIZE	MANUFACTURER	MODEL	REMARKS
ABBR.	#						
BFP	1	REDUCED PRESSURE BACKFLOW PREVENTOR ASSEMBLY	DOMESTIC WATER	6"	WATTS	994	1
BFP	2	REDUCED PRESSURE DETECTOR ASSEMBLY	FIRE PROTECTION	8"	WATTS	909RPDA	1
BFP	3	REDUCED PRESSURE BACKFLOW PREVENTOR ASSEMBLY	POOL WATER MAKE-UP	1-1/2"	WATTS	LF009	1

1. BACKFLOW DEVICES SHALL BE TESTED AND APPROVED BY A CROSS CONNECTION CONTROL DEVICE INSPECTOR (CCCDI) PRIOR TO INITIAL OPERATION.

DOMESTIC EXPANSION TANK

TAG		TANK TYPE	CAPACITY (GAL)	ACCEPTANCE VOLUME (GAL)	MANUFACTURER	MODEL	REMARKS
ABBR.	#						
DET	1	DIAPHRAGM	2	1	AMTROL	THERM-X-TROL ST-5C-DD	--
HT	1	DIAPHRAGM			--	--	1.

1. PROVIDE BOOSTER PUMP MANUFACTURERS RECOMMENDED HYDROPNEUMATIC TANK.

ELECTRIC WATER COOLER

TAG	FIXTURE	MATERIAL	DIMENSIONS	ELECTRICAL DATA		MANUFACTURER	MODEL	REMARKS
				WATTS	VOLTAGE			
EWC-1	BI-LEVEL ELECTRIC WATER COOLER W/ BOTTLE FILL STATION	STAINLESS STEEL	36-3/4" x 19" x 39-1/16"	370	120 V	ELKAY	LZSTL8WSLK	--

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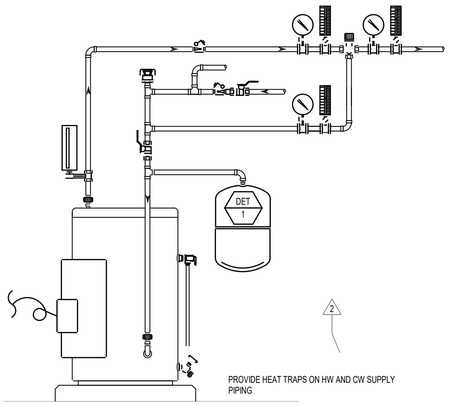

PROVIDE HEAT TRAPS ON HW AND CW SUPPLY PIPING

10 WATER HEATER
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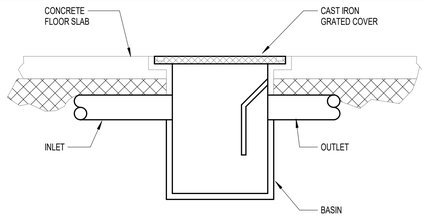

GENERAL NOTES:
REFER TO FLOOR PLANS AND SCHEDULES FOR INVERT ELEVATIONS AND ADDITIONAL INFORMATION.

8 BELOW GRADE SEDIMENT BASIN
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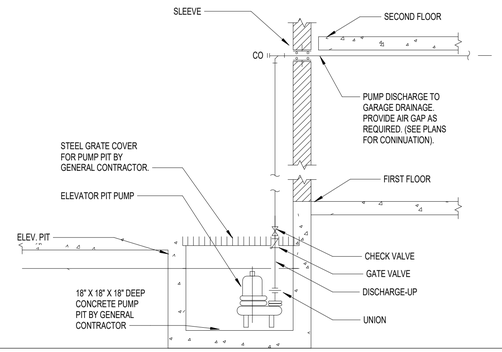

9 ELEVATOR SUMP PUMP
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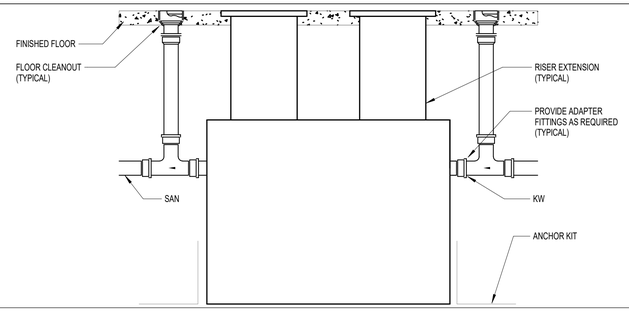

7 GREASE INTERCEPTOR
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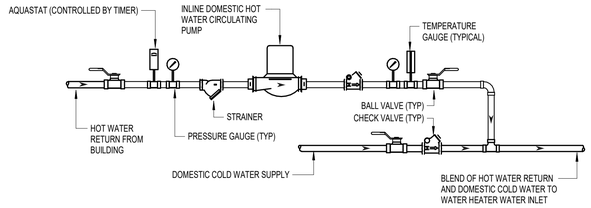
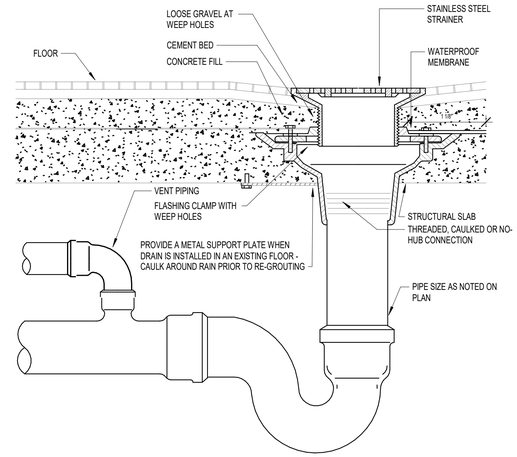
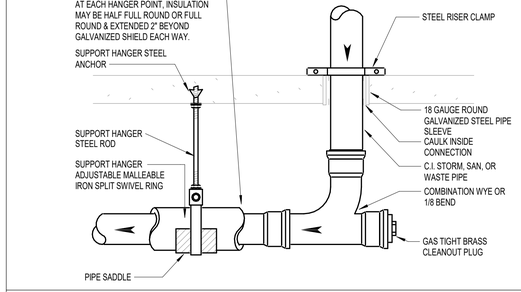


NOTES: ALL VALVE AND STRAINERS SHALL BE EQUAL TO LINE SIZE AS SHOWN ON PLANS. PUMP CONNECTIONS MAY DEVIATE FROM LINE SIZE.

11 DOMESTIC HOT WATER RECIRCULATION PUMP
NTS



5 TYPICAL FLOOR DRAIN
NTS



6 TYPICAL SUSPENDED CLEAN-OUT
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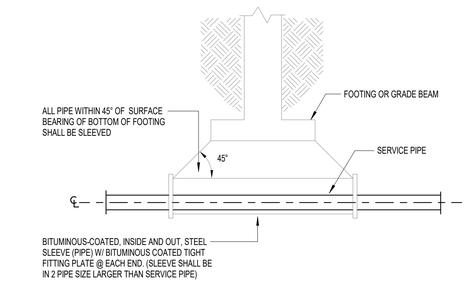

3 BELOW FOOTING OR GRADE, PIPE SLEEVE
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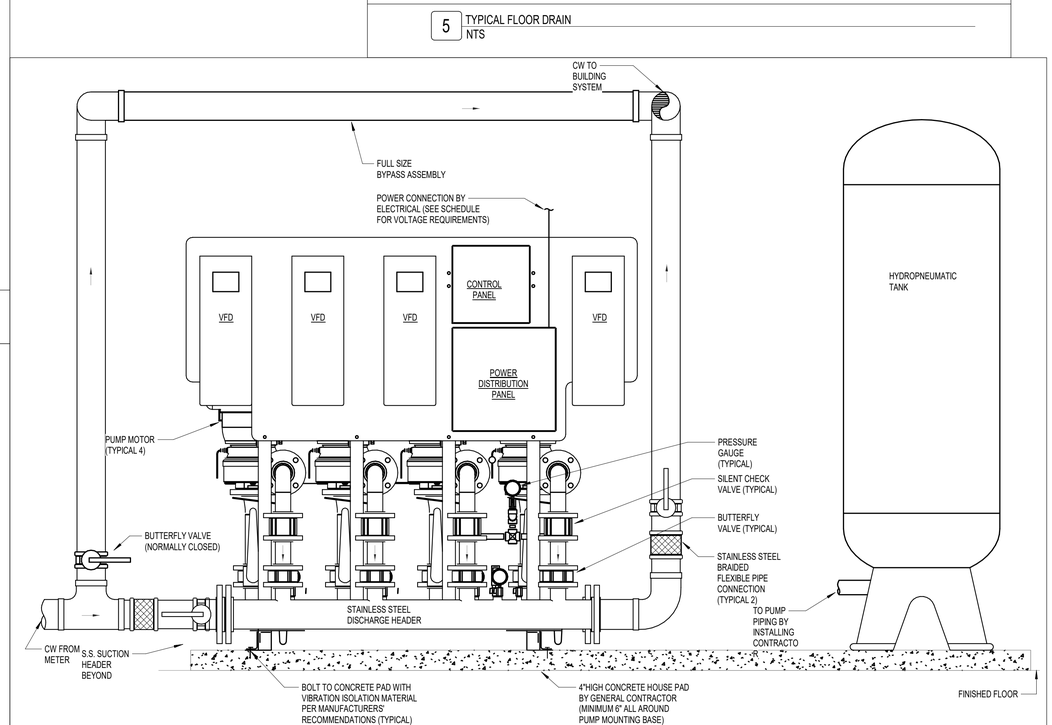
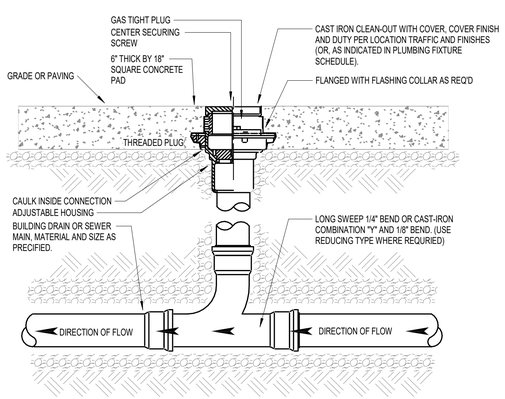


1 DOMESTIC BOOSTER PUMP
NTS



4 TYPICAL FLOOR CLEAN-OUT
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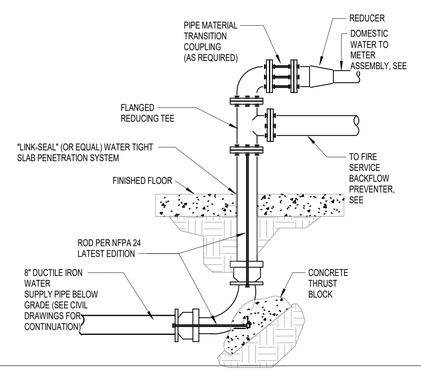

2 BELOW FOOTING OR GRADE, PIPE SLEEVE
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ISSUE FOR PERMIT	04.02.2021
PERMIT RESUBMIT	06.02.2021

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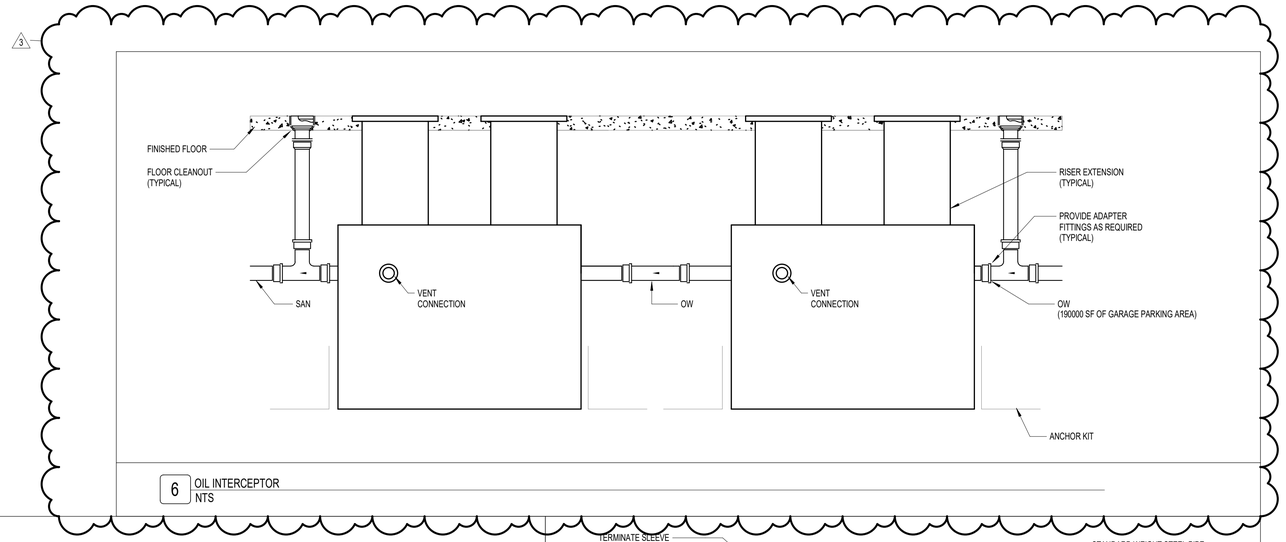
GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

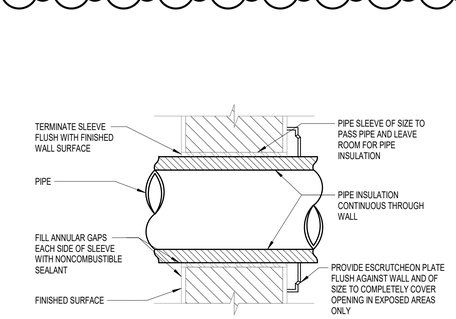
PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

P6.0

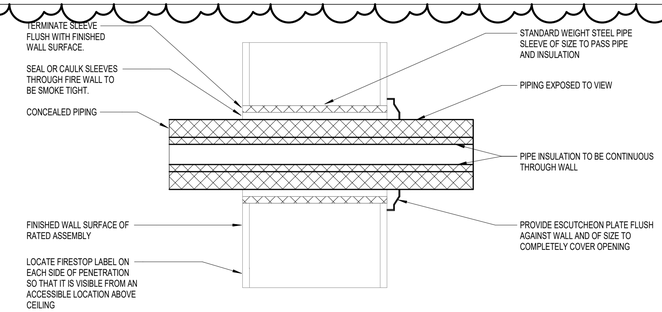
JONES & JONES ASSOCIATES / ARCHITECTS PC



6 OIL INTERCEPTOR
NTS



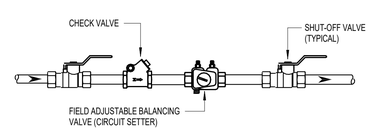
5 INSULATED PIPE THROUGH INTERIOR NON-RATED WALLS OR SMOKE-RESISTANT CORRIDOR WALL
NTS



GENERAL NOTES:

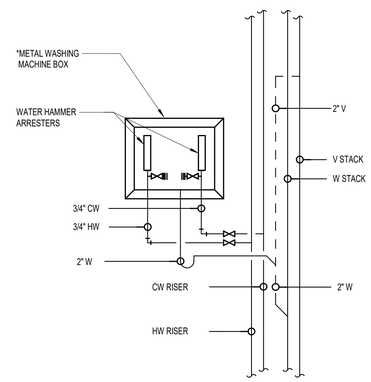
1. PIPE AND INSULATION TO BE CENTERED IN SLEEVE. DO NOT SUPPORT PIPE FROM SLEEVE.
2. INCLUDES FIRE WALLS, FIRE BARRIERS, SMOKE BARRIERS, AND FIRE PARTITIONS.

4 INSULATED PIPE THROUGH INTERIOR FIRE RATED WALL
NTS

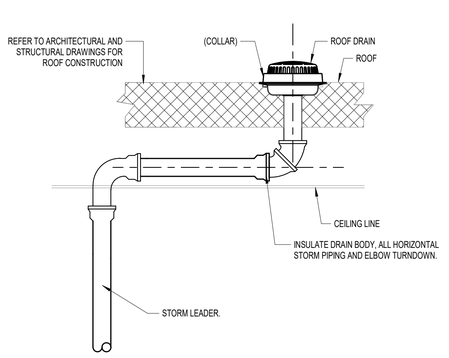


NOTE: BALANCING VALVES TO BE SET TO 0.5 GPM, UNLESS OTHERWISE NOTED ON PLAN OR RISER.

3 ZONE DOMESTIC HOT WATER RETURN
NTS



2 WASHING MACHINE BOX
NTS



1 ROOF DRAIN AND OVERFLOW DRAIN
NTS

REVISION	DATE
ISSUE FOR PERMIT	04.05.2021
PERMIT REVISIONS	06.30.2021
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ELECTRICAL OPTIONS AND MOUNTING CODES

CONNECTION AND ROUTING	
ABBRV	DESCRIPTION
CDR	CEILING DROP DOWN ON TO RACK
CPC	CORD AND PLUG CONNECTION POINT
FSR	FLOOR STUB UP ONTO RACK
PDC	PULL DOWN DROP CORD
HWC	HARD WIRE CONNECTION
FWC	FLEXIBLE WHIP CONNECTION

DEVICE OPTIONS	
ABBREV	DESCRIPTION
TP	TAMPER PROOF TYPE DEVICE AND COVER
WP	WEATHER PROOF TYPE DEVICE AND COVER
WG	WIRE GUARD DEVICE AND COVER
VR	VANDAL RESISTANT DEVICE AND COVER
AFI	ARC FAULT INTERRUPTION AND PROTECTION
GFI	GROUND FAULT INTERRUPTION AND PROTECTION
STI	SHUNT TRIP INTERRUPTION AND PROTECTION
XXX	ARCHITECTURAL EQUIPMENT REFER TO SCHEDULE DWGS FOR EQUIPMENT SCHEDULES FOR CIRCUIT INFORMATION

LIGHTING LUMINAIRES

F1 — 3A,B — LED LIGHTING FIXTURE
"F1" INDICATES FIXTURE TYPE REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING.

F21 — 3A
"3" INDICATES BRANCH CIRCUIT NUMBER
"A" INDICATES SWITCH CONTROL LETTER CODE
"B" INDICATES SWITCH CONTROL LETTER CODE

F32 — 3A — LED RECESSED MOUNTED LIGHTING FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND LINEAR SURFACE, UNISTRUT MOUNTED OR PENDANT DIRECT LIGHTING FIXTURE

F44 — 3A — LINEAR SURFACE, UNISTRUT MOUNTED OR PENDANT DIRECT LIGHTING FIXTURE

LED EMERGENCY LIGHTING FIXTURE

F1EM — 3 — LED LIGHTING FIXTURE ON THE EMERGENCY "LIFE SAFETY" SYSTEM. "EM" INDICATES FIXTURE ON EMERGENCY SYSTEM.

BATTERY BACK UP UNIT

REMOTE BATTERY BACK UP UNIT

RISER ELECTRICAL DIAGRAM/SYMBOLS

- POLY PHASE TRANSFORMER
- POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- GROUND
- CONTACTOR
- CIRCUIT BREAKER
- SINGLE THROW SWITCH
- FUSE

EXIT SIGNS

EXIT-STAIR-FIRE ESCAPE LIGHTING FIXTURE:

EXIT-STAIR-FIRE ESCAPE DIRECTIONAL SIGN NO. INDICATE INSCRIPTION, ARROWS AND SINGLE OR DOUBLE FACED AS SHOWN IN THE FOLLOWING SCHEDULE:

SYMBOLS

CEILING MOUNTED - SINGLE FACE | CEILING MOUNTED - DOUBLE FACE | WALL MOUNTED

REMARKS:

1. ALL WORK AND EQUIPMENT SHALL BE NEW.
2. ALL CONDUIT SHALL BE 3/4" MINIMUM. ALL CONDUCTORS SHALL NE #12 THHN, MINIMUM.
3. PROVIDE #10 THHN CONDUCTORS FOR CIRCUITS INSTALLED 150FT AND ABOVE.

LIGHT FIXTURE MOTOR, LISTED-EQUIPMENT, SWITCHES-OPERATORS

3 $ A K

"A-Z"	SWITCH LEG CONTROL LETTER CODE(S)
"D"	DIMMER 1,000W CONTROL SWITCH
"2"	DOUBLE-POLE TOGGLE SWITCH
"3"	TRIPPLE POLE TOGGLE SWITCH
"3W"	THREE WAY SWITCH
"4W"	FOUR WAY SWITCH
"LCD"	LIQUID CRYSTAL DISPLAY PANEL
"KP"	KEY PAD
"KY"	KEY OPERATED SWITCH
"P"	TOGGLE SWITCH WITH PILOT LIGHT
"T"	THERMAL SWITCH
"TS"	TOUCH SCREEN
"WS"	WALL SWITCH
"T/S"	TEMP/SENSOR SWITCH
"VS"	VACANCY SENSOR
"W-STAT"	WALL LINE VOLTAGE STAT

$ — SINGLE POLE TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH SUBSCRIPT CODE(S)

WALL SWITCH MOUNTED PASSIVE INFRARED 180° OCCUPANCY SENSOR

OS — CEILING MOUNTED DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, UNLESS NOTED OTHERWISE

VS — CEILING MOUNTED DUAL TECHNOLOGY 360° VACANCY SENSOR, UNLESS NOTED OTHERWISE

DS — CEILING MOUNTED DUAL TECHNOLOGY 360° DAYLIGHT SAVINGS SENSOR, UNLESS NOTED OTHERWISE

FL — JUNCTION BOXES FOR FLUSH SENSORS. CONTRACTOR TO PROVIDE CIRCUIT SHOWN AND ALL ASSOCIATED CONDUIT AND WIRING FOR A COMPLETE AND OPERATING SYSTEM. TYPICAL FOR EVERY LAVATORY, URINAL AND TOILET FLUSH LOCATION. MULTIPLE LAVATORIES AT TOILETS REQUIRED A SINGLE CONNECTION. PROVIDE TRANSFORMERS ABOVE CEILING W/ ACCESS PANELS AND PROVIDE GFI CKT BREAKER AT CORRESPONDING BREAKER.

NOTE:
LIGHTING CONTROL SWITCHES SHOWN ON LIGHTING PLAN VIEWS, EQUIPMENT MOTOR CONTROL SWITCHES SHOWN ON POWER PLAN VIEWS

MOTORS & LISTED EQUIPMENT CONTROLLERS

XXX / X — MOTOR-LISTED EQUIPMENT REFER TO SCHEDULE DWGS FOR EQUIPMENT SCHEDULES FOR CIRCUIT INFORMATION

X — MOTOR CONNECTION

ENCLOSED MAGNETIC MOTOR STARTER

STR — COMBO MAGNETIC MOTOR STARTER W/ OCPD & LOCK-OUT TAG-OUT DISCONNECT SWITCH

VFC — COMBINATION VARIABLE FREQUENCY CONTROLLER W/OCPD & LOCK-OUT TAG-OUT DISCONNECT SWITCH

NON-FUSED DISCONNECT SWITCH & LOCK-OUT TAG-OUT

FUSED DISCONNECT SWITCH & LOCK-OUT TAG-OUT

PANELBOARDS AND CONTROLLERS

- FLUSH MOUNTED PANEL - SEE DESCRIPTION FOR TYPE
- SURFACE MOUNTED PANEL - SEE DESCRIPTION FOR TYPE
- FREE STANDING SWITCHBOARD / RACK / CABINET / HOUSING

CONDUITS RACEWAYS WIREWAYS & J-BOXES

- TWO CHANNEL MULTI-OUTLET RACEWAY FOR SURFACE MOUNT POWER & TECH OPENINGS
- J — JUNCTION BOX
- J — JUNCTION BOX - WALL MOUNTED

RECEPTACLES

- WALL MOUNTED UNIPLEX RECEPTACLE
- WALL MOUNTED DUPLEX RECEPTACLE
- WALL MOUNTED QUAD RECEPTACLE
- WALL MOUNTED SWITCHED DUPLEX RECEPTACLE
- WALL MOUNTED SWITCHED QUAD RECEPTACLE
- WALL MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE
- WALL MOUNTED ISOLATED GROUND QUAD RECEPTACLE
- FLOOR MOUNTED UNIPLEX RECEPTACLE
- CEILING MOUNTED DUPLEX RECEPTACLE
- CEILING MOUNTED QUAD RECEPTACLE
- CEILING MOUNTED SWITCHED DUPLEX RECEPTACLE
- CEILING MOUNTED SWITCHED QUAD RECEPTACLE
- CEILING MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE
- CEILING MOUNTED ISOLATED GROUND QUAD RECEPTACLE
- RECESSED FLOOR BOX MOUNTED DUPLEX REC
- RECESSED FLOOR BOX MOUNTED QUAD REC
- RECESSED FLOOR BOX SWITCHED MOUNTED DUPLEX REC
- RECESSED FLOOR BOX SWITCHED MOUNTED QUAD REC
- RECESSED FLOOR BOX ISOLATED GROUND MOUNTED DUPLEX REC
- RECESSED FLOOR BOX ISOLATED GROUND MOUNTED QUAD REC
- PEDESTAL MOUNTED POKE-THRU DUPLEX REC
- PEDESTAL MOUNTED POKE-THRU QUAD REC
- WALL MOUNTED NEMA RECEPTACLE
- RECESSED FLOOR BOX MOUNTED NEMA REC
- FLUSH MOUNTED POKE-THRU NEMA REC
- PEDESTAL MOUNTED POKE-THRU NEMA REC
- ABOVE COUNTER MOUNTED DUPLEX RECEPTACLE 48" AFF
- ABOVE COUNTER MOUNTED DUPLEX SWITCHED RECEPTACLE 48" AFF
- PP — PUSH PLATE FOR DOORS

GENERAL NOTE FOR ALL NON-CIRCUITED ITEMS:

ELECTRICAL CONTRACTOR SHALL CONNECT ALL NORMAL 120V, SINGLE-PHASE LIGHTING FIXTURES TO DEDICATED 120/208V, 3-PHASE, 4W LIGHTING BRANCH CIRCUIT PANELBOARDS AND SHALL NOT EXCEED A TOTAL OF 1,900 VA OF LIGHTING LOAD PER 20 AMP CIRCUIT.

ELECTRICAL CONTRACTOR SHALL CONNECT ALL EMERGENCY LIFE SAFETY 120V, SINGLE-PHASE LIGHTING FIXTURES AND EXIT SIGNS TO DEDICATED 120/208V, 3-PHASE, 4W, LIFE SAFETY LIGHTING BRANCH CIRCUIT PANELBOARDS AND SHALL NOT EXCEED A TOTAL OF 1,000 VA OF LIGHTING LOAD PER 20 AMP CIRCUIT.

ELECTRICAL REFERENCE NOTES:

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:

   A. ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES.
   B. ALL FIRE RATED PARTITIONS AND BUILDING EXPANSION JOINTS.
   C. MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES.

2. REFER TO THE "M" SERIES MECHANICAL DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:

   A. MECHANICAL EQUIPMENT, CONTROL PANELS AND MOTORS.
   B. AUTOMATIC TEMPERATURE CONTROL SYSTEM PANELS AND DEVICES.
   C. DUCT MOUNTED SMOKE DETECTORS.
   D. MOTORIZED DAMPERS AND CONTROL VALVES.
   E. ELECTRIC HEAT TRACING OF MECHANICAL PIPING.

3. REFER TO THE "P" SERIES PLUMBING DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:

   A. ELECTRIC WATER HEATERS.
   B. ELECTRIC FLUSH VALVES.
   C. ELECTRIC HEAT TRACING OF PLUMBING AND DRAINAGE PIPING.

4. REFER TO THE "FP" SERIES FIRE PROTECTION / SPRINKLER DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:

   A. WATER FLOW AND TAMPER SWITCHES.
   B. PRE-ACTION AND / OR DELUGE SYSTEM CONTROL PANELS.
   C. ELECTRIC HEAT TRACING FOR SPRINKLER PIPING.

5. REFER TO THE APPROPRIATE VENDORS APPROVED DIMENSIONED LAYOUT DRAWINGS FOR THE LOCATIONS OF THE FOLLOWING:

   A. CONDUIT CONNECTIONS TO FURNITURE AND PREFABRICATED MILLWORK.
   B. ELEVATOR AND ESCALATOR RELATED POWER, LIGHTING AND EMPTY CONDUIT PROVISIONS.
   C. POWER AND CONTROL WIRING FOR ELECTRICALLY OPERATED DOORS.

GENERAL ELECTRICAL NOTES

APPLICABLE TO ALL ELECTRICAL DRAWINGS

1. DEFINITIONS

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. "INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER. PROVIDE" MEANS TO "FURNISH" AND "INSTALL". "FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES

THE WORK SHALL COMPLY WITH LATEST NATIONAL ELECTRIC CODE. THIS WOULD INCLUDE, BUT IS NOT LIMITED TO, THE CURRENT CITY BUILDING CODE. AMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING. THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

3. INTERPRETATION OF THE DOCUMENTS

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

4. COORDINATION

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

5. SITE EXAMINATION

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

6. PERMITS

THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENSES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

7. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

8. CONTRACTOR'S DRAWING REVIEW

ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK

THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

10. WORK PERFORMANCE REQUIREMENTS

ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING END OF EACH WORK DAY. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL CHECK, VERIFY AND LABEL PHASE ROTATION ANY TIME LEADS ARE CONNECTED TO A NEW OR EXISTING AC SERVICE, GENSET, RECTIFIER OR ANY MOTOR-EQUIPPED, 3-PHASE EQUIPMENT. ALL THREE-PHASE PANELS SERVING SINGLE-PHASE LOADS SHALL BE BALANCED WITHIN 10 PERCENT, USING AMMETER READINGS. MEASUREMENTS SHALL BE TAKEN AT THE END OF CONSTRUCTION AND AGAIN AFTER 30 DAYS IN SERVICE.

11. CUTTING AND PATCHING

ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.

12. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SCALED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.

13. FIRESTOPPING

ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE-STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).

14. TEMPORARY POWER AND LIGHTING

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALL AT LEAST BE THE EQUAL OF (1)100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL. COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.

15. SWITCH AND RECEPTACLE IDENTIFICATION

PROVIDE MACHINE-PRINTED, PRESSURE SENSITIVE, ABRASION RESISTANT LABEL TAPE ON FACE OF ALL DEVICE PLATES TO IDENTIFY THE PANELBOARD AND CIRCUIT NUMBER FROM WHICH EACH DEVICE IS SERVED.

17. PANELBOARDS

ALL PANELBOARDS IN WHICH WORK OCCURS PER THESE DOCUMENTS, SHALL BE PROVIDED WITH UPDATED-TYPEWRITTEN DIRECTORIES. GIVEN ONLY FOR CLARITY AND QUANTITY, CIRCUIT NUMBERS SHOWN IN THE PLANS MAY NOT NECESSARILY REPRESENT ACTUAL CIRCUIT NUMBERS IN PANELBOARD. FROM FLUSH-MOUNTED PANELBOARDS, STUB-OUT ONE 3/4" CONDUIT INTO THE CEILING CAVITY FOR EACH SET OF 3 SPARES AND/OR SPACES OR FRACTION THEREOF.

18. WIRING

UNLESS NOTED OTHERWISE, ALL WIRE AND CABLE SHALL BE 600-VOLT COPPER CONDUCTORS WITH TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR LIGHTING AND POWER CIRCUITS AND #14 AWG FOR CONTROL CIRCUITS. PROVIDE GROUNDING FOR CIRCUITS PER NATIONAL ELECTRIC CODE. UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS, ALL CABLING SHALL BE (2) #12 AND (1) #12 G IN 3/4" C. (NO SHARED NEUTRALS).

19. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE NEC AND FOR COORDINATION WITH OTHER DISCIPLINES. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE RUN TOGETHER, IN GROUPING. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND MINIMUM SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL (RGS) CONDUIT SHALL BE USED WHEN CONDUIT IS INSTALLED IN OUTDOOR AREAS OR WHERE OTHERWISE EXPOSED TO PHYSICAL HARM. EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S). A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS, WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY OR CABLE ARMOR/SHEATH SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN ARTICLE 250 OF NATIONAL ELECTRIC CODE.

20. EQUIPMENT

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING AND/OR FM APPROVAL. UNLESS NOTED OTHERWISE, DISCONNECT/SAFETY SWITCHES SHALL BE NON-FUSED HEAVY-DUTY 600-VOLT TYPE. INDOOR ENCLOSURES SHALL BE NEMA 1 AND OUTDOOR ENCLOSURES SHALL BE NEMA 3R.

21. MECHANICAL EQUIPMENT

ALL MECHANICAL EQUIPMENT WILL BE INSTALLED BY THE DIVISION 22 & 23 CONTRACTOR. COORDINATE THE EXACT LOCATION AND NATURE OF ANY REQUIRED ELECTRICAL CONNECTION TO BE PROVIDED FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FURNISHING SUCH POWER. REFER TO MECHANICAL DRAWING FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. MAKE CONNECTION AND PROVIDE APPROPRIATE WIRE, CONDUIT AND OVER CURRENT PROTECTION FOR EQUIPMENT. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE CLEARANCES AS REQUIRED BY THE APPLICABLE BUILDING CODES. MOTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 22 & 23 WORK, WITH POWER CONNECTED UNDER DIVISION 16 WORK. FINAL CONNECTION SHALL BE MADE WITH SUITABLE LENGTH OF LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. ALL MOTOR BRANCH CIRCUITS, ETC., SHALL BE FIELD-VERIFIED FOR PROPER SEQUENCE AND MOTOR ROTATION. PHASE SEQUENCE SHALL BE A-B-C (VIEWED FROM FRONT: LEFT TO RIGHT, TOP TO BOTTOM, FRONT TO REAR). REFER TO MECHANICAL DRAWINGS FOR MOTORS THAT ARE TO BE INTERLOCKED.

22. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES, CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT LIGHT FIXTURES, LADDER TRAY OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL THREADED RODS SHALL BE A MINIMUM OF 3/8" IN DIAMETER. ALL LIGHTING FIXTURES AT SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED.

23. LIGHTING REFERENCES

ELECTRICAL CONTRACTOR SHALL REFERENCE THE "E2.X" SERIES DRAWINGS ALONG WITH THE ARCHITECTURAL DRAWINGS FOR ALL LIGHTING FIXTURE TYPES, QUANTITIES AND LOCATIONS. ELECTRICAL CONTRACTOR SHALL CIRCUIT ALL LIGHTING FIXTURES TO RESPECTIVE BRANCH CIRCUIT LIGHTING PANELBOARDS AND ASSOCIATED CONTROLS WHETHER OR NOT A CIRCUIT NUMBER DESIGNATION AND PANEL SOURCE IS SHOWN ON THE ELECTRICAL DRAWINGS.

24. SWITCHED CONTROLLED RECEPTACLES

AUTOMATIC RECEPTACLE CONTROL: 50% OF ALL 125 VOLT 15- AND 20-AMPERE RECEPTACLES IN PRIVATE OFFICES, CONFERENCE ROOMS, PRINTING/COPYING ROOMS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS SHALL BE AUTOMATICALLY SWITCHED OFF WHEN THE SPACE IN WHICH THEY ARE LOCATED IS NOT OCCUPIED. ALL INDIVIDUAL WORKSTATIONS CREATED WITH MODULAR FURNITURE SHALL BE REQUIRED TO HAVE AT LEAST 50% OF THE RECEPTACLES IN EACH WORKSTATION AUTOMATICALLY CONTROLLED.

ALL CONTROLLED RECEPTACLES SHALL BE VISUALLY DISTINCT FROM NON-CONTROLLED RECEPTACLES. SWITCHED RECEPTACLES SHALL BE IDENTIFIED BY RECEPTACLE COLOR, INDICATION LIGHTS INTEGRAL TO THE RECEPTACLE, PERMANENTLY MARKED/ENGRAVED RECEPTACLE LABELING, ETC. REGARDLESS OF THE MEANS OF IDENTIFICATION, MAINTAINING CLEAR, UNIFORM IDENTIFICATION THROUGHOUT A BUILDING WILL INCREASE OCCUPANT UNDERSTANDING AND REDUCE CONFUSION.

ALL CONTROLLED RECEPTACLES SHALL BE CONTROLLED VIA RELAY PANEL(S) OR LOCAL STAND-ALONE CEILING MOUNTED OCCUPANCY/VACANCY SENSORS. PROVIDE ALL REQUIRED CONDUIT, WIRING, RELAYS, ETC. FOR A COMPLETE AND FUNCTIONAL CONTROLLED RECEPTACLE SYSTEM.

ABBREVIATIONS

AC	ABOVE COUNTER	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MMD	MULTI-METERING DEVICE
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
CB	CIRCUIT BREAKER	MS	MOTORIZED SCREEN OR SHADES
CCT	CIRCUIT	MV	MEDIUM VOLTAGE
CM	COFFEE MAKER	MW	MICROWAVE
CO	CONDUIT ONLY	N	NORMAL POWER
CP	CONTROL PANEL	NC	NORMALLY CLOSED (CONTACTS)
DISC	DISCONNECT	NIC	NOT IN CONTRACT
DN	DOWN	NO	NORMALLY OPEN (CONTACTS)
DM	DISPLAY MONITOR	NTS	NOT TO SCALE
DW	DISH WASHER	OHD	OVERHEAD GARAGE DOOR
E	EXISTING TO REMAIN	P	PROJECTOR
ECD	ELECTRIC CLOTHES DRYER	PNL	PANEL
EHD	ELECTRIC HAND DRYER	PRI	PRIMARY
EM	EMERGENCY	PT	POTENTIAL TRANSFORMER
ER	ELECTRIC RANGE	PV	PHOTOVOLTAIC SYSTEM
ESP	ELEVATOR STATUS PANEL	R	EXISTING TO BE REMOVED
EWC	ELECTRIC WATER COOLER	RCP	REFLECTED CEILING PLAN
FCU	FAN COIL UNIT	REF	REFRIGERATOR
FPB	FAN POWERED BOX	SEC	SECONDARY
GD	GARBAGE DISPOSAL	SM	SNOW MELT SYSTEM
GFI	GROUND FAULT INTERRUPTER	SPDT	SINGLE POLE DOUBLE THROW
GRD	GROUND	SW	SWITCH
HOA	HAND OFF AUTOMATIC	TP	TAMPER PROOF
HP	HORSEPOWER	UC	UNDER COUNTER REFRIGERATOR
HT	HEAT TRACE	UH	UNIT HEATER
IS	IRRIGATION SYSTEM	USB	RECEPTACLES WITH 2 INTEG

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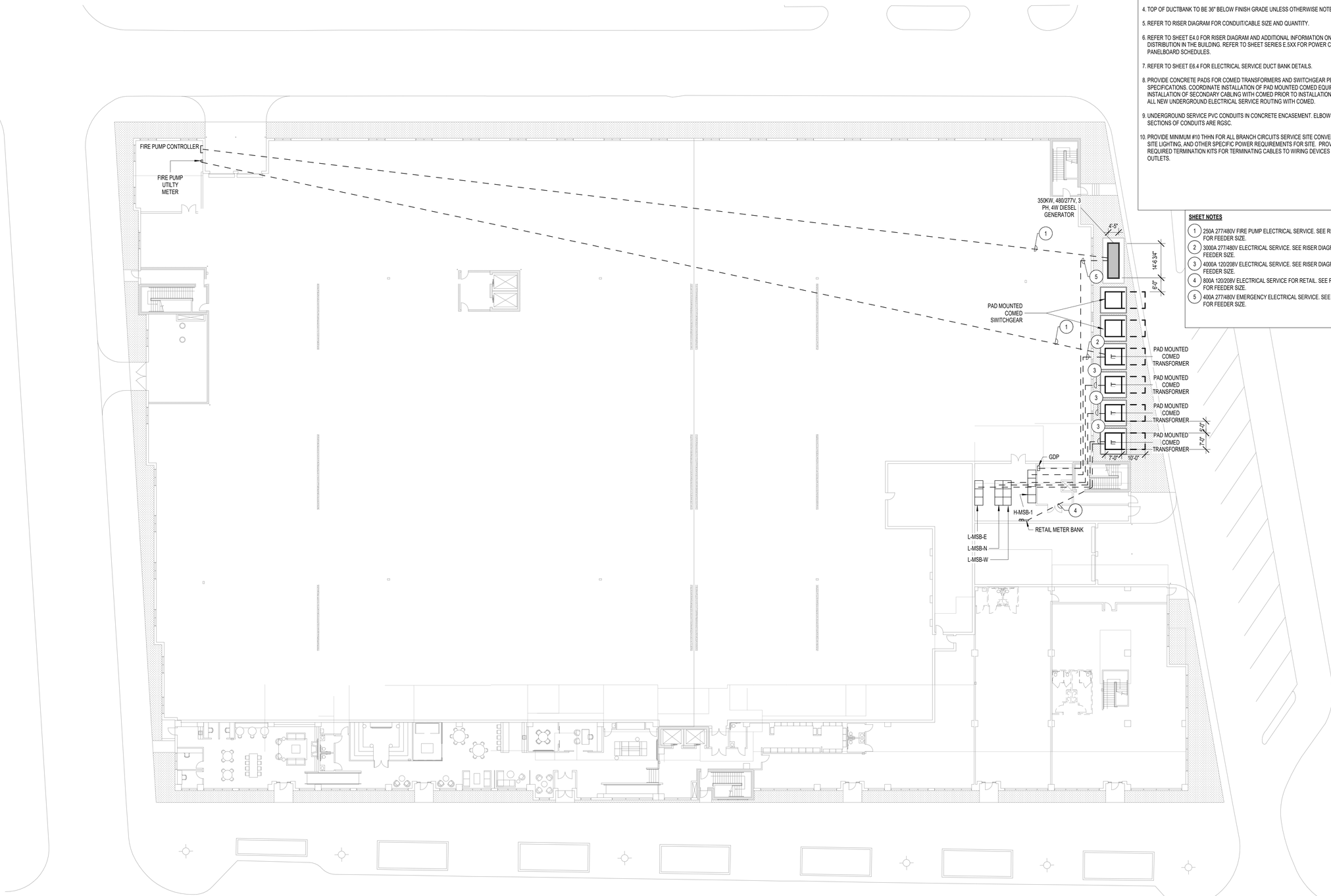

1 **ELECTRICAL SITE PLAN**
1" = 20'-0"

0' 8' 16' 32' 64'

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF EXISTING UTILITY POLES AND ComEd MANHOLES.
2. COORDINATE ALL NEW UNDERGROUND ELECTRICAL SERVICE ROUTING AND EXACT REQUIREMENTS WITH CIVIL DRAWINGS AND COMED PRIOR TO INSTALLATION.
3. A SINGLE CONDUIT RUN SHALL NOT HAVE MORE THAN (3) 90 DEGREE BENDS. PROVIDE PRECAST CONCRETE OPEN BOTTOM HANDHOLES AS REQUIRED.
4. TOP OF DUCTBANK TO BE 36" BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
5. REFER TO RISER DIAGRAM FOR CONDUIT/CABLE SIZE AND QUANTITY.
6. REFER TO SHEET E4.0 FOR RISER DIAGRAM AND ADDITIONAL INFORMATION ON POWER DISTRIBUTION IN THE BUILDING. REFER TO SHEET SERIES E.5XX FOR POWER CIRCUITRY AND PANELBOARD SCHEDULES.
7. REFER TO SHEET E6.4 FOR ELECTRICAL SERVICE DUCT BANK DETAILS.
8. PROVIDE CONCRETE PADS FOR COMED TRANSFORMERS AND SWITCHGEAR PER COMED SPECIFICATIONS. COORDINATE INSTALLATION OF PAD MOUNTED COMED EQUIPMENT AND INSTALLATION OF SECONDARY CABLING WITH COMED PRIOR TO INSTALLATION. COORDINATE ALL NEW UNDERGROUND ELECTRICAL SERVICE ROUTING WITH COMED.
9. UNDERGROUND SERVICE PVC CONDUITS IN CONCRETE ENCASEMENT. ELBOWS AND VERTICAL SECTIONS OF CONDUITS ARE RGSC.
10. PROVIDE MINIMUM #10 THHN FOR ALL BRANCH CIRCUITS SERVICE SITE CONVENIENCE POWER, SITE LIGHTING, AND OTHER SPECIFIC POWER REQUIREMENTS FOR SITE. PROVIDE ALL REQUIRED TERMINATION KITS FOR TERMINATING CABLES TO WIRING DEVICES AND LIGHTING OUTLETS.

SHEET NOTES

1. 250A 277/480V FIRE PUMP ELECTRICAL SERVICE. SEE RISER DIAGRAM FOR FEEDER SIZE.
2. 3000A 277/480V ELECTRICAL SERVICE. SEE RISER DIAGRAM FOR FEEDER SIZE.
3. 4000A 120/208V ELECTRICAL SERVICE. SEE RISER DIAGRAM FOR FEEDER SIZE.
4. 800A 120/208V ELECTRICAL SERVICE FOR RETAIL. SEE RISER DIAGRAM FOR FEEDER SIZE.
5. 400A 277/480V EMERGENCY ELECTRICAL SERVICE. SEE RISER DIAGRAM FOR FEEDER SIZE.

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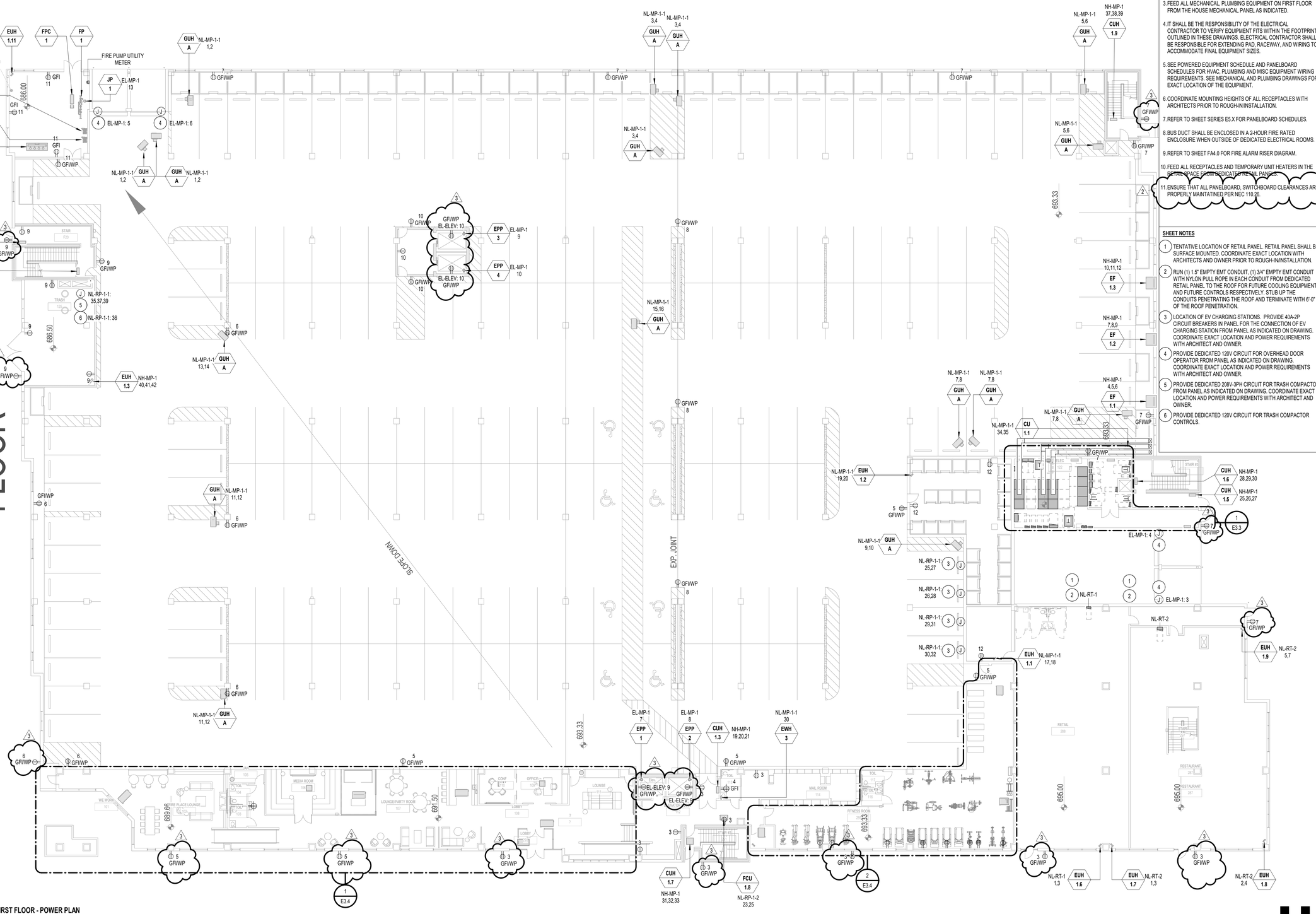
FIRST FLOOR



1 **FIRST FLOOR - POWER PLAN**
1/16" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. REFER TO SHEET E4.0 FOR RISER DIAGRAM AND ADDITIONAL INFORMATION ON POWER DISTRIBUTION IN THE BUILDING.
2. FEED ALL RECEPTACLES ON THE FIRST FLOOR FROM HOUSE RECEPTACLE PANEL NL-RP-1-1 UNLESS OTHERWISE NOTED.
3. FEED ALL MECHANICAL, PLUMBING EQUIPMENT ON FIRST FLOOR FROM THE HOUSE MECHANICAL PANEL AS INDICATED.
4. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT FITS WITHIN THE FOOTPRINT OUTLINED IN THESE DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PAD, RACEWAY, AND WIRING TO ACCOMMODATE FINAL EQUIPMENT SIZES.
5. SEE POWERED EQUIPMENT SCHEDULE AND PANELBOARD SCHEDULES FOR HVAC, PLUMBING AND MISC EQUIPMENT WIRING REQUIREMENTS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT.
6. COORDINATE MOUNTING HEIGHTS OF ALL RECEPTACLES WITH ARCHITECTS PRIOR TO ROUGH-IN/INSTALLATION.
7. REFER TO SHEET SERIES E5.X FOR PANELBOARD SCHEDULES.
8. BUS DUCT SHALL BE ENCLOSED IN A 2-HOUR FIRE RATED ENCLOSURE WHEN OUTSIDE OF DEDICATED ELECTRICAL ROOMS.
9. REFER TO SHEET FA4.0 FOR FIRE ALARM RISER DIAGRAM.
10. FEED ALL RECEPTACLES AND TEMPORARY UNIT HEATERS IN THE RETAIL SPACE FROM DEDICATED RETAIL PANELS.
11. ENSURE THAT ALL PANELBOARD, SWITCHBOARD CLEARANCES ARE PROPERLY MAINTAINED PER NEC 110.26.

SHEET NOTES

1. TENTATIVE LOCATION OF RETAIL PANEL. RETAIL PANEL SHALL BE SURFACE MOUNTED. COORDINATE EXACT LOCATION WITH ARCHITECTS AND OWNER PRIOR TO ROUGH-IN/INSTALLATION.
2. RUN (1) 1.5" EMPTY EMT CONDUIT, (1) 3/4" EMPTY EMT CONDUIT WITH NYLON PULL ROPE IN EACH CONDUIT FROM DEDICATED RETAIL PANEL TO THE ROOF FOR FUTURE COOLING EQUIPMENT AND FUTURE CONTROLS RESPECTIVELY. STUB UP THE CONDUITS PENETRATING THE ROOF AND TERMINATE WITH 6'-0" OF THE ROOF PENETRATION.
3. LOCATION OF EV CHARGING STATIONS. PROVIDE 40A-2P CIRCUIT BREAKERS IN PANEL FOR THE CONNECTION OF EV CHARGING STATION FROM PANEL AS INDICATED ON DRAWING. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT AND OWNER.
4. PROVIDE DEDICATED 120V CIRCUIT FOR OVERHEAD DOOR OPERATOR FROM PANEL AS INDICATED ON DRAWING. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT AND OWNER.
5. PROVIDE DEDICATED 208V-3PH CIRCUIT FOR TRASH COMPACTOR FROM PANEL AS INDICATED ON DRAWING. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH ARCHITECT AND OWNER.
6. PROVIDE DEDICATED 120V CIRCUIT FOR TRASH COMPACTOR CONTROLS.

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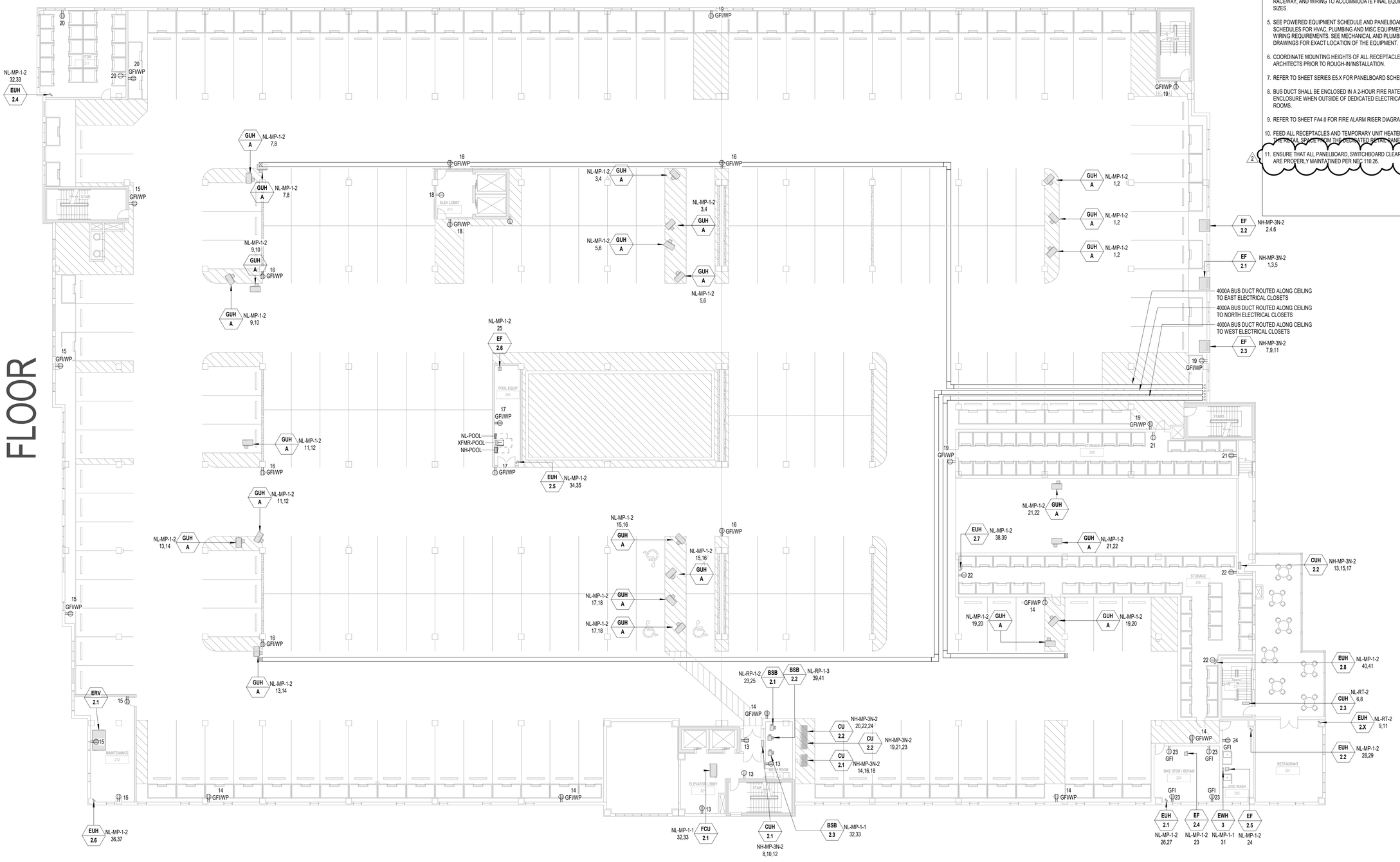
FLOOR



1 **SECOND FLOOR - POWER PLAN**
1/16" = 1'-0"

0' 4' 8' 16' 32'

N

GENERAL NOTES

1. REFER TO SHEET E4.0 FOR RISER DIAGRAM AND ADDITIONAL INFORMATION ON POWER DISTRIBUTION IN THE BUILDING.
2. FEED ALL RECEPTACLES ON THE SECOND FLOOR FROM HOUSE RECEPTACLE PANEL NL-RP-1-1 UNLESS OTHERWISE NOTED.
3. FEED ALL MECHANICAL, PLUMBING EQUIPMENT ON SECOND FLOOR FROM THE HOUSE MECHANICAL PANEL AS INDICATED.
4. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT FITS WITHIN THE FOOTPRINT OUTLINED IN THESE DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PAD, RACEWAY, AND WIRING TO ACCOMMODATE FINAL EQUIPMENT SIZES.
5. SEE POWERED EQUIPMENT SCHEDULE AND PANELBOARD SCHEDULES FOR HVAC, PLUMBING AND MISC EQUIPMENT WIRING REQUIREMENTS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT.
6. COORDINATE MOUNTING HEIGHTS OF ALL RECEPTACLES WITH ARCHITECTS PRIOR TO ROUGH-IN/INSTALLATION.
7. REFER TO SHEET SERIES E5.X FOR PANELBOARD SCHEDULES.
8. BUS DUCT SHALL BE ENCLOSED IN A 2-HOUR FIRE RATED ENCLOSURE WHEN OUTSIDE OF DEDICATED ELECTRICAL ROOMS.
9. REFER TO SHEET FA4.0 FOR FIRE ALARM RISER DIAGRAM.
10. FEED ALL RECEPTACLES AND TEMPORARY UNIT HEATERS IN THE RETAIL SPACE FROM THE DEDICATED RETAIL PANELS
11. ENSURE THAT ALL PANELBOARD, SWITCHBOARD CLEARANCES ARE PROPERLY MAINTAINED PER NEC 110.26.

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FLOOR

ALL NORTH UNIT LOAD CENTERS ARE FED FROM RMB-3N. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION

ALL EAST UNIT LOAD CENTERS ARE FED FROM RMB-3E. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION

ALL NORTH UNIT LOAD CENTERS ARE FED FROM RMB-3N. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION

ALL WEST UNIT LOAD CENTERS ARE FED FROM RMB-3W. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION

ALL NORTH UNIT LOAD CENTERS ARE FED FROM RMB-3N. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION

ALL WEST UNIT LOAD CENTERS ARE FED FROM RMB-3W. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION

1 THIRD FLOOR - POWER PLAN
1/16" = 1'-0"

0' 4' 8' 16' 32'

N

GENERAL NOTES

1. REFER TO SHEET E4.0 FOR RISER DIAGRAM AND ADDITIONAL INFORMATION ON POWER DISTRIBUTION IN THE BUILDING. REFER TO SHEET E4.1 FOR EMERGENCY RISER DIAGRAM AND ADDITIONAL INFORMATION ON EMERGENCY POWER DISTRIBUTION IN THE BUILDING.
2. FEED ALL RECEPTACLES IN THE THIRD FLOOR CORRIDORS, ELECTRICAL CLOSETS, AMENITY SPACES, AND BACK OF HOUSE SPACES FROM HOUSE RECEPTACLE PANEL NL-RP-3E UNLESS OTHERWISE NOTED.
3. FEED ALL MECHANICAL, PLUMBING EQUIPMENT ON THIRD FLOOR FROM THE HOUSE MECHANICAL PANEL AS INDICATED.
4. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT FITS WITHIN THE FOOTPRINT OUTLINED IN THESE DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PAD, RACEWAY, AND WIRING TO ACCOMMODATE FINAL EQUIPMENT SIZES.
5. SEE POWERED EQUIPMENT SCHEDULE AND PANELBOARD SCHEDULES FOR HVAC, PLUMBING AND MISC EQUIPMENT WIRING REQUIREMENTS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT.
6. COORDINATE MOUNTING HEIGHTS OF ALL RECEPTACLES WITH ARCHITECTS PRIOR TO ROUGH-IN/INSTALLATION.
7. REFER TO SHEET SERIES E3.X FOR ENLARGED POWER AND LIGHTING PLANS OF TYPICAL DWELLING UNITS.
8. REFER TO SHEET SERIES E5.X FOR PANELBOARD SCHEDULES.
9. BUS DUCT SHALL BE ENCLOSED IN A 2-HOUR FIRE RATED ENCLOSURE WHEN OUTSIDE OF DEDICATED ELECTRICAL ROOMS.
10. REFER TO SHEET FA4.0 FOR FIRE ALARM RISER DIAGRAM.
11. FEED ALL POOL EQUIPMENT FROM PANEL "NH-POOL". SEE POOL CONSULTANT DRAWINGS FOR EXACT LOCATION AND POWER REQUIREMENTS OF POOL EQUIPMENT. ALL SINGLE PHASE POOL EQUIPMENT SHALL BE GFCI PROTECTED.
12. ENSURE THAT ALL PANELBOARD, SWITCHBOARD CLEARANCES ARE PROPERLY MAINTATINED PER NEC 110.26.

SHEET NOTES

1. ELECTRIC BASEBOARD HEATERS LOCATED IN BATHROOMS TO BE FED FROM ASSOCIATED UNIT LOAD CENTER. SEE SHEET E5.3 FOR ELECTRICAL WIRING REQUIREMENTS.

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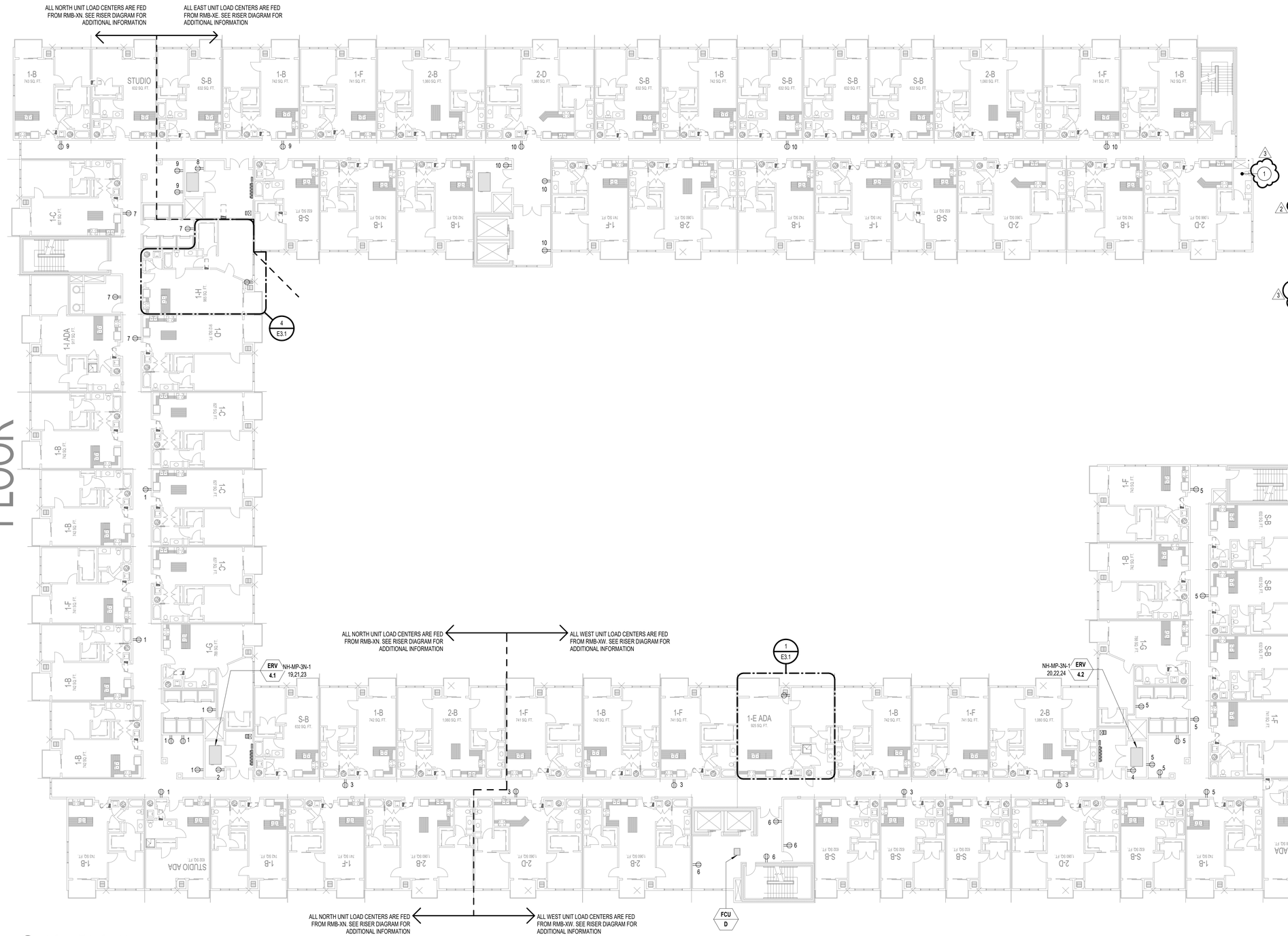

1 TYPICAL FLOOR - POWER PLAN
1/16" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. REFER TO SHEET E4.0 FOR RISER DIAGRAM AND ADDITIONAL INFORMATION ON POWER DISTRIBUTION IN THE BUILDING. REFER TO SHEET E4.1 FOR EMERGENCY RISER DIAGRAM AND ADDITIONAL INFORMATION ON EMERGENCY POWER DISTRIBUTION IN THE BUILDING.
2. FEED ALL RECEPTACLES IN THE FOURTH AND FIFTH FLOOR CORRIDORS, ELECTRICAL CLOSETS, AMENITY SPACES, AND BACK OF HOUSE SPACES FROM HOUSE RECEPTACLE PANEL NL-RP-5E UNLESS OTHERWISE NOTED.
3. FEED ALL RECEPTACLES IN THE SIXTH AND SEVENTH FLOOR CORRIDORS, ELECTRICAL CLOSETS, AMENITY SPACES, AND BACK OF HOUSE SPACES FROM HOUSE RECEPTACLE PANEL NL-RP-7E UNLESS OTHERWISE NOTED.
4. FEED ALL MECHANICAL, PLUMBING EQUIPMENT ON THIRD FLOOR FROM THE HOUSE MECHANICAL PANEL AS INDICATED.
5. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT FITS WITHIN THE FOOTPRINT OUTLINED IN THESE DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PAD, RACEWAY, AND WIRING TO ACCOMMODATE FINAL EQUIPMENT SIZES.
6. SEE POWERED EQUIPMENT SCHEDULE AND PANELBOARD SCHEDULES FOR HVAC, PLUMBING AND MISC EQUIPMENT WIRING REQUIREMENTS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT.
7. COORDINATE MOUNTING HEIGHTS OF ALL RECEPTACLES WITH ARCHITECTS PRIOR TO ROUGH-IN/INSTALLATION.
8. REFER TO SHEET SERIES E3.X FOR ENLARGED POWER AND LIGHTING PLANS OF TYPICAL DWELLING UNITS.
9. REFER TO SHEET SERIES E5.X FOR PANELBOARD SCHEDULES.
10. BUS DUCT SHALL BE ENCLOSED IN A 2-HOUR FIRE RATED ENCLOSURE WHEN OUTSIDE OF DEDICATED ELECTRICAL ROOMS.
11. REFER TO SHEET E4.0 FOR FIRE ALARM RISER DIAGRAM.
12. ENSURE THAT ALL PANELBOARD, SWITCHBOARD CLEARANCES ARE PROPERLY MAINTAINED PER NEC 110.26.

SHEET NOTES

1. ELECTRIC BASEBOARD HEATERS LOCATED IN BATHROOMS TO BE FED FROM ASSOCIATED UNIT LOAD CENTER. SEE SHEET E5.3 FOR ELECTRICAL WIRING REQUIREMENTS.

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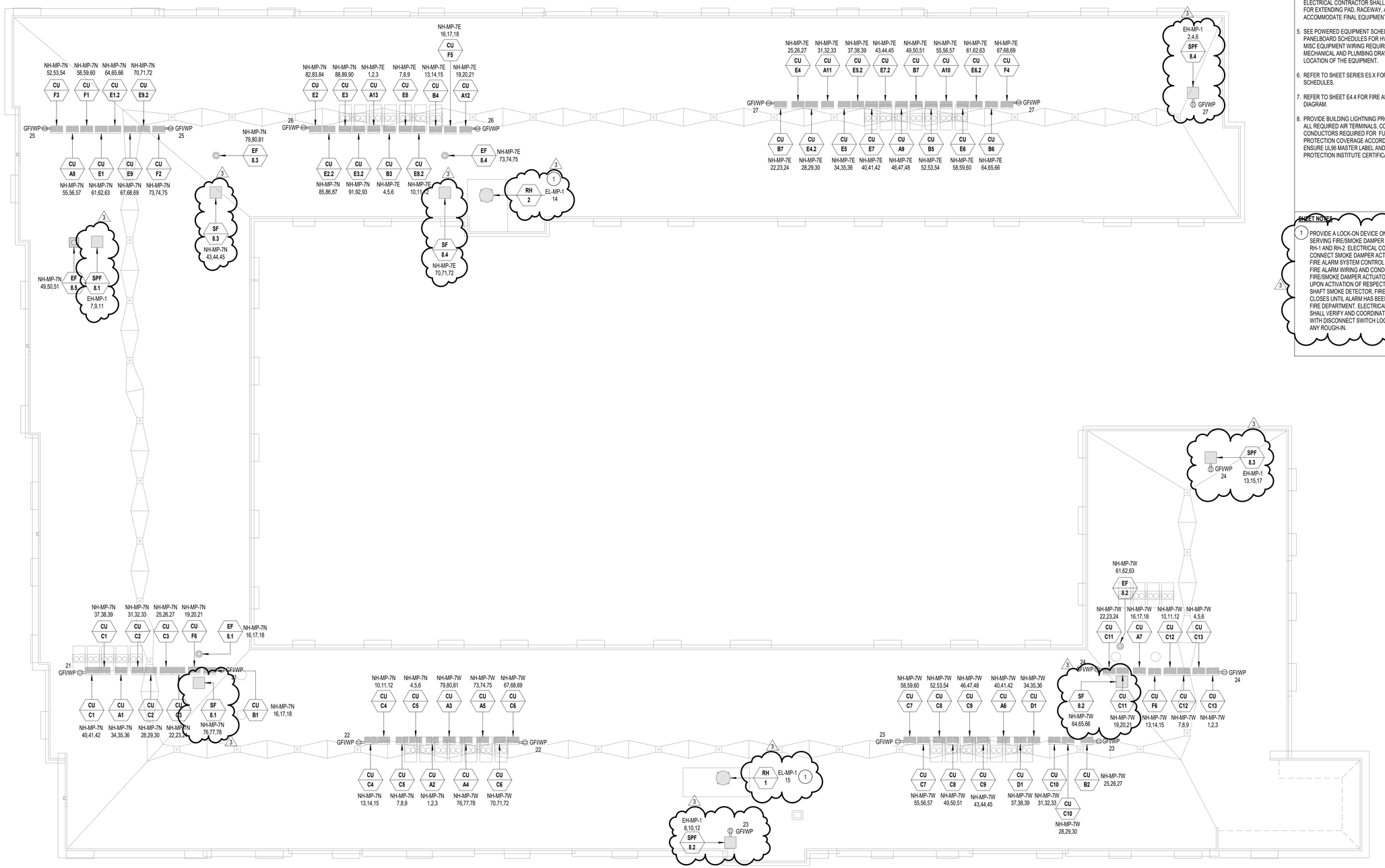

1 **ROOF - POWER PLAN**
1/16" = 1'-0"

0' 4' 8' 16' 32'

N

GENERAL NOTES

1. REFER TO SHEET E4.0 FOR RISER DIAGRAM AND ADDITIONAL INFORMATION ON POWER DISTRIBUTION IN THE BUILDING.
2. FEED ALL RECEPTACLES ON ROOF FROM HOUSE RECEPTACLE PANEL NL-RP-7E UNLESS OTHERWISE NOTED.
3. FEED ALL MECHANICAL, PLUMBING EQUIPMENT ON ROOF FROM THE HOUSE MECHANICAL PANEL AS INDICATED.
4. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT FITS WITHIN THE FOOTPRINT OUTLINED IN THESE DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PAD, RACEWAY, AND WIRING TO ACCOMMODATE FINAL EQUIPMENT SIZES.
5. SEE POWERED EQUIPMENT SCHEDULE AND PANELBOARD SCHEDULES FOR HVAC, PLUMBING AND MISC EQUIPMENT WIRING REQUIREMENTS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT.
6. REFER TO SHEET SERIES E5.X FOR PANELBOARD SCHEDULES.
7. REFER TO SHEET E4.4 FOR FIRE ALARM RISER DIAGRAM.
8. PROVIDE BUILDING LIGHTNING PROTECTION. PROVIDE ALL REQUIRED AIR TERMINALS, CONNECTIONS, DOWN CONDUCTORS REQUIRED FOR FULL LIGHTNING PROTECTION COVERAGE ACCORDING TO NFPA 780. ENSURE UL96 MASTER LABEL AND LIGHTING PROTECTION INSTITUTE CERTIFICATION.

SHEET NOTES

1. PROVIDE A LOCK-ON DEVICE ON CIRCUIT BREAKER SERVING FIRE/SMOKE DAMPER ACTUATOR ON RH-1 AND RH-2. ELECTRICAL CONTRACTOR SHALL CONNECT SMOKE DAMPER ACTUATOR TO THE FIRE ALARM SYSTEM CONTROL PANEL WITH NEW FIRE ALARM WIRING AND CONDUIT. PROGRAM FIRE/SMOKE DAMPER ACTUATOR SUCH THAT UPON ACTIVATION OF RESPECTIVE ELEVATOR SHAFT SMOKE DETECTOR, FIRE/SMOKE ACTUATOR CLOSES UNTIL ALARM HAS BEEN CLEARED BY THE FIRE DEPARTMENT. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE JUNCTION BOX WITH DISCONNECT SWITCH LOCATION PRIOR TO ANY ROUGH-IN.

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GARDEN STATION APARTMENTS
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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
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DATE
15 APR 2021

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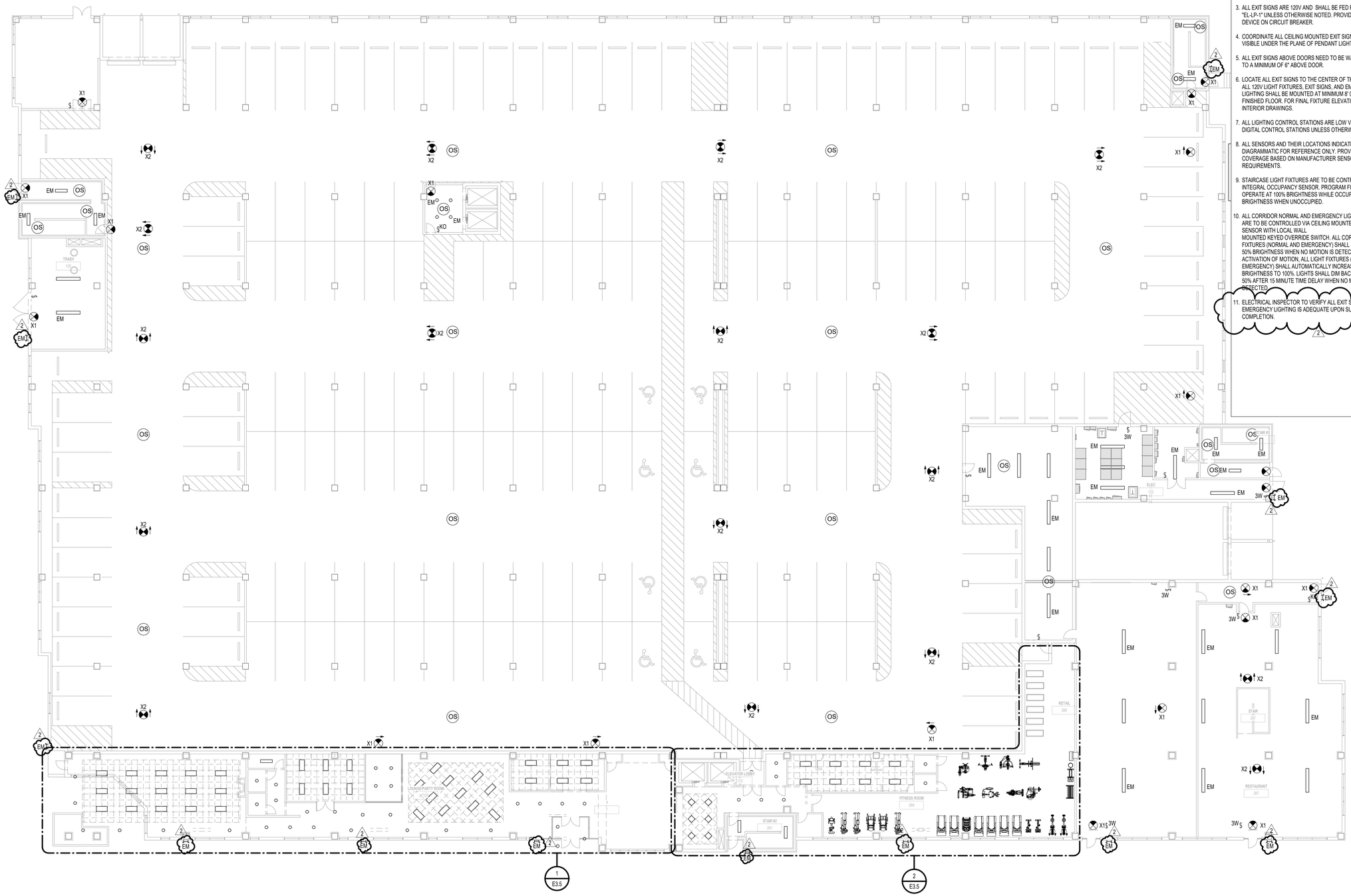

1 **FIRST FLOOR - LIGHTING RCP**
1/16" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. ALL NON-EMERGENCY LIGHTING SHALL BE FED FROM PANEL "NL-LP-1" UNLESS OTHERWISE NOTED.
2. ALL EMERGENCY LIGHTING SHALL BE FED FROM PANEL "EL-LP-1" UNLESS OTHERWISE NOTED.
3. ALL EXIT SIGNS ARE 120V AND SHALL BE FED FROM PANEL "EL-LP-1" UNLESS OTHERWISE NOTED. PROVIDE A LOCK-ON DEVICE ON CIRCUIT BREAKER.
4. COORDINATE ALL CEILING MOUNTED EXIT SIGNS TO BE VISIBLE UNDER THE PLANE OF PENDANT LIGHTS.
5. ALL EXIT SIGNS ABOVE DOORS NEED TO BE WALL MOUNTED TO A MINIMUM OF 6" ABOVE DOOR.
6. LOCATE ALL EXIT SIGNS TO THE CENTER OF THE AISLES. ALL 120V LIGHT FIXTURES, EXIT SIGNS, AND EMERGENCY LIGHTING SHALL BE MOUNTED AT MINIMUM 8' 0" ABOVE FINISHED FLOOR. FOR FINAL FIXTURE ELEVATION, REFER TO INTERIOR DRAWINGS.
7. ALL LIGHTING CONTROL STATIONS ARE LOW VOLTAGE DIGITAL CONTROL STATIONS UNLESS OTHERWISE NOTED.
8. ALL SENSORS AND THEIR LOCATIONS INDICATED ARE DIAGRAMMATIC FOR REFERENCE ONLY. PROVIDE 100% COVERAGE BASED ON MANUFACTURER SENSOR REQUIREMENTS.
9. STAIRCASE LIGHT FIXTURES ARE TO BE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR. PROGRAM FIXTURES TO OPERATE AT 100% BRIGHTNESS WHILE OCCUPIED AND 50% BRIGHTNESS WHEN UNOCCUPIED.
10. ALL CORRIDOR NORMAL AND EMERGENCY LIGHT FIXTURES ARE TO BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR WITH LOCAL WALL MOUNTED KEYED OVERRIDE SWITCH. ALL CORRIDOR LIGHT FIXTURES (NORMAL AND EMERGENCY) SHALL BE DIMMED TO 50% BRIGHTNESS WHEN NO MOTION IS DETECTED. UPON ACTIVATION OF MOTION, ALL LIGHT FIXTURES (NORMAL AND EMERGENCY) SHALL AUTOMATICALLY INCREASE BRIGHTNESS TO 100%. LIGHTS SHALL DIM BACK DOWN TO 50% AFTER 15 MINUTE TIME DELAY WHEN NO MOTION IS DETECTED.
11. ELECTRICAL INSPECTOR TO VERIFY ALL EXIT SIGNS AND EMERGENCY LIGHTING IS ADEQUATE UPON SUBSTANTIAL COMPLETION.

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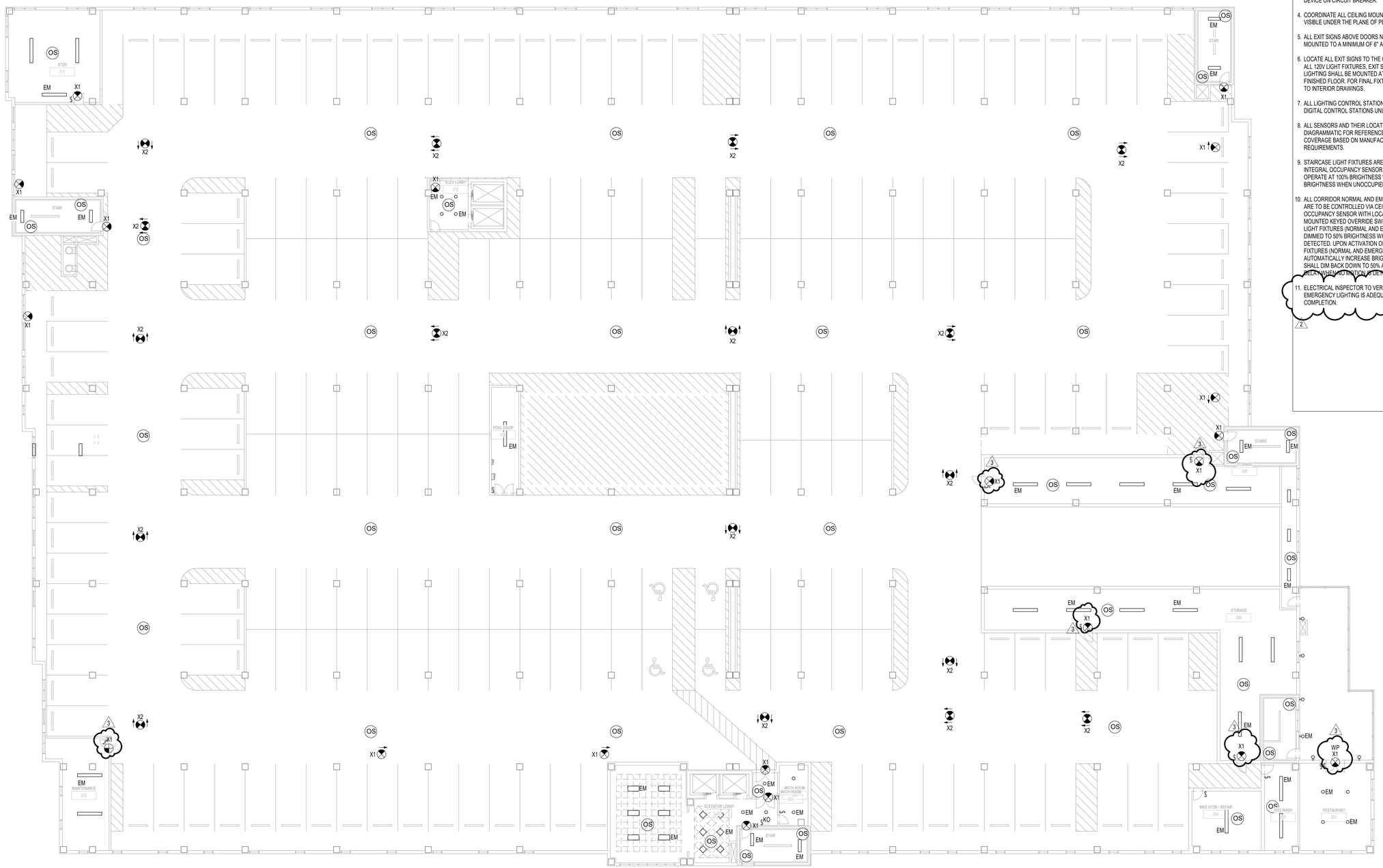

1 **SECOND FLOOR - LIGHTING RCP**
1/16" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. ALL NON-EMERGENCY LIGHTING SHALL BE FED FROM PANEL "NL-LP-1" UNLESS OTHERWISE NOTED.
2. ALL EMERGENCY LIGHTING SHALL BE FED FROM PANEL "EL-LP-1" UNLESS OTHERWISE NOTED.
3. ALL EXIT SIGNS ARE 120V AND SHALL BE FED FROM PANEL "EL-LP-1" UNLESS OTHERWISE NOTED PROVIDE A LOCK-ON DEVICE ON CIRCUIT BREAKER.
4. COORDINATE ALL CEILING MOUNTED EXIT SIGNS TO BE VISIBLE UNDER THE PLANE OF PENDANT LIGHTS.
5. ALL EXIT SIGNS ABOVE DOORS NEED TO BE WALL MOUNTED TO A MINIMUM OF 6" ABOVE DOOR.
6. LOCATE ALL EXIT SIGNS TO THE CENTER OF THE AISLES. ALL 120V LIGHT FIXTURES, EXIT SIGNS, AND EMERGENCY LIGHTING SHALL BE MOUNTED AT MINIMUM 8' 0" ABOVE FINISHED FLOOR. FOR FINAL FIXTURE ELEVATION, REFER TO INTERIOR DRAWINGS.
7. ALL LIGHTING CONTROL STATIONS ARE LOW VOLTAGE DIGITAL CONTROL STATIONS UNLESS OTHERWISE NOTED.
8. ALL SENSORS AND THEIR LOCATIONS INDICATED ARE DIAGRAMMATIC FOR REFERENCE ONLY. PROVIDE 100% COVERAGE BASED ON MANUFACTURER SENSOR REQUIREMENTS.
9. STAIRCASE LIGHT FIXTURES ARE TO BE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR. PROGRAM FIXTURES TO OPERATE AT 100% BRIGHTNESS WHILE OCCUPIED AND 50% BRIGHTNESS WHEN UNOCCUPIED.
10. ALL CORRIDOR NORMAL AND EMERGENCY LIGHT FIXTURES ARE TO BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR WITH LOCAL WALL MOUNTED KEYED OVERRIDE SWITCH. ALL CORRIDOR LIGHT FIXTURES (NORMAL AND EMERGENCY) SHALL BE DIMMED TO 50% BRIGHTNESS WHEN NO MOTION IS DETECTED. UPON ACTIVATION OF MOTION, ALL LIGHT FIXTURES (NORMAL AND EMERGENCY) SHALL AUTOMATICALLY INCREASE BRIGHTNESS TO 100%. LIGHTS SHALL DIM BACK DOWN TO 50% AFTER 15 MINUTE TIME DELAY WHEN NO MOTION IS DETECTED.
11. ELECTRICAL INSPECTOR TO VERIFY ALL EXIT SIGNS AND EMERGENCY LIGHTING IS ADEQUATE UPON SUBSTANTIAL COMPLETION.

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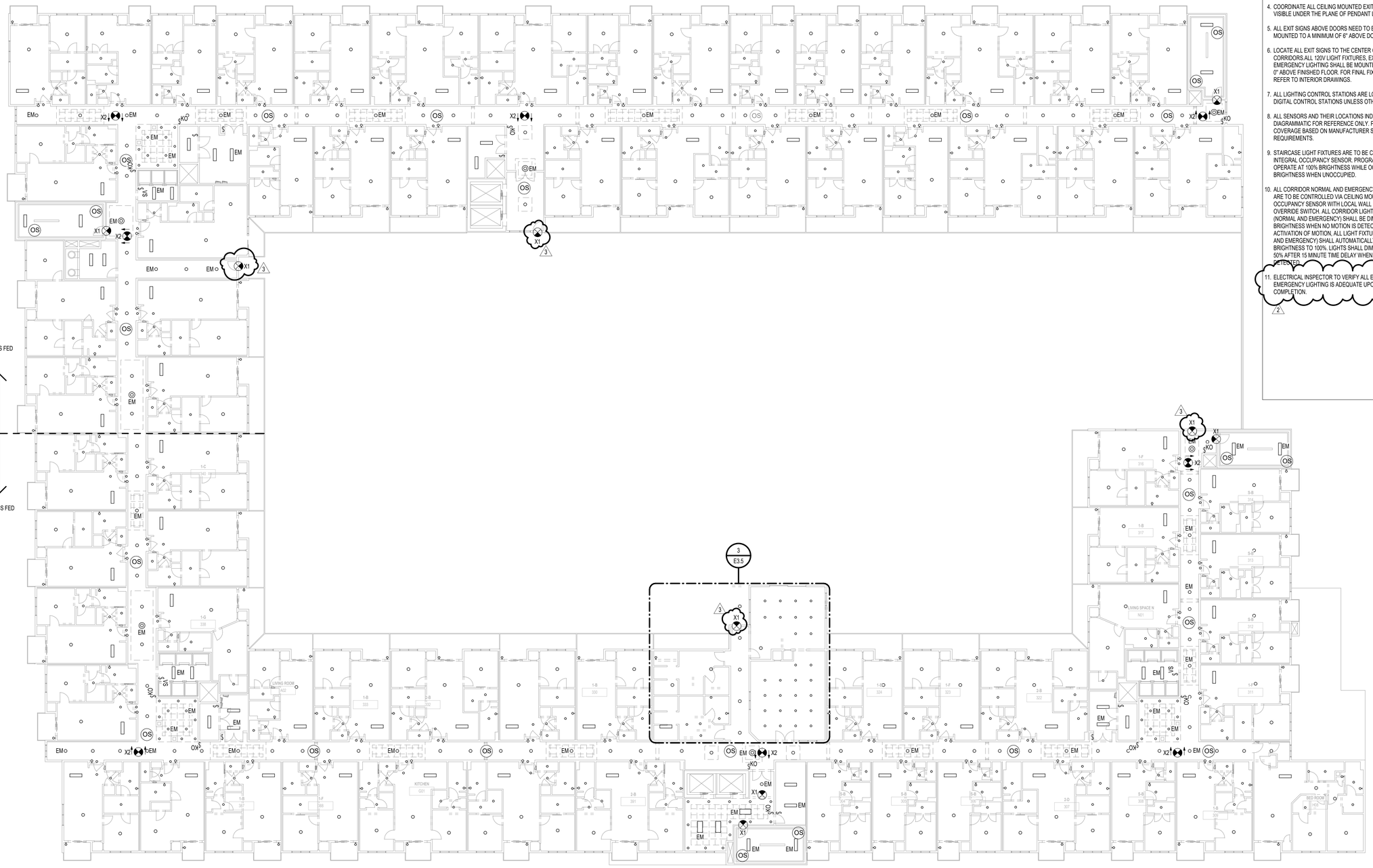

1 THIRD FLOOR - LIGHTING RCP
1/16" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. ALL NON-EMERGENCY LIGHTING SHALL BE FED FROM PANEL "NL-LP-3" UNLESS OTHERWISE NOTED.
2. ALL EMERGENCY LIGHTING SHALL BE FED FROM PANEL "EL-LP-3" UNLESS OTHERWISE NOTED.
3. ALL EXIT SIGNS ARE 120V AND SHALL BE FED FROM PANEL AS INDICATED IN DRAWING. PROVIDE LOCK-ON DEVICE ON CIRCUIT BREAKER.
4. COORDINATE ALL CEILING MOUNTED EXIT SIGNS TO BE VISIBLE UNDER THE PLANE OF PENDANT LIGHTS.
5. ALL EXIT SIGNS ABOVE DOORS NEED TO BE WALL MOUNTED TO A MINIMUM OF 6" ABOVE DOOR.
6. LOCATE ALL EXIT SIGNS TO THE CENTER OF THE CORRIDORS.ALL 120V LIGHT FIXTURES, EXIT SIGNS, AND EMERGENCY LIGHTING SHALL BE MOUNTED AT MINIMUM 8' 0" ABOVE FINISHED FLOOR. FOR FINAL FIXTURE ELEVATION, REFER TO INTERIOR DRAWINGS.
7. ALL LIGHTING CONTROL STATIONS ARE LOW VOLTAGE DIGITAL CONTROL STATIONS UNLESS OTHERWISE NOTED.
8. ALL SENSORS AND THEIR LOCATIONS INDICATED ARE DIAGRAMMATIC FOR REFERENCE ONLY. PROVIDE 100% COVERAGE BASED ON MANUFACTURER SENSOR REQUIREMENTS.
9. STAIRCASE LIGHT FIXTURES ARE TO BE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR. PROGRAM FIXTURES TO OPERATE AT 100% BRIGHTNESS WHILE OCCUPIED AND 50% BRIGHTNESS WHEN UNOCCUPIED.
10. ALL CORRIDOR NORMAL AND EMERGENCY LIGHT FIXTURES ARE TO BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR WITH LOCAL WALL MOUNTED KEYED OVERRIDE SWITCH. ALL CORRIDOR LIGHT FIXTURES (NORMAL AND EMERGENCY) SHALL BE DIMMED TO 50% BRIGHTNESS WHEN NO MOTION IS DETECTED. UPON ACTIVATION OF MOTION, ALL LIGHT FIXTURES (NORMAL AND EMERGENCY) SHALL AUTOMATICALLY INCREASE BRIGHTNESS TO 100%. LIGHTS SHALL DIM BACK DOWN TO 50% AFTER 15 MINUTE TIME DELAY WHEN NO MOTION IS DETECTED.
11. ELECTRICAL INSPECTOR TO VERIFY ALL EXIT SIGNS AND EMERGENCY LIGHTING IS ADEQUATE UPON SUBSTANTIAL COMPLETION.

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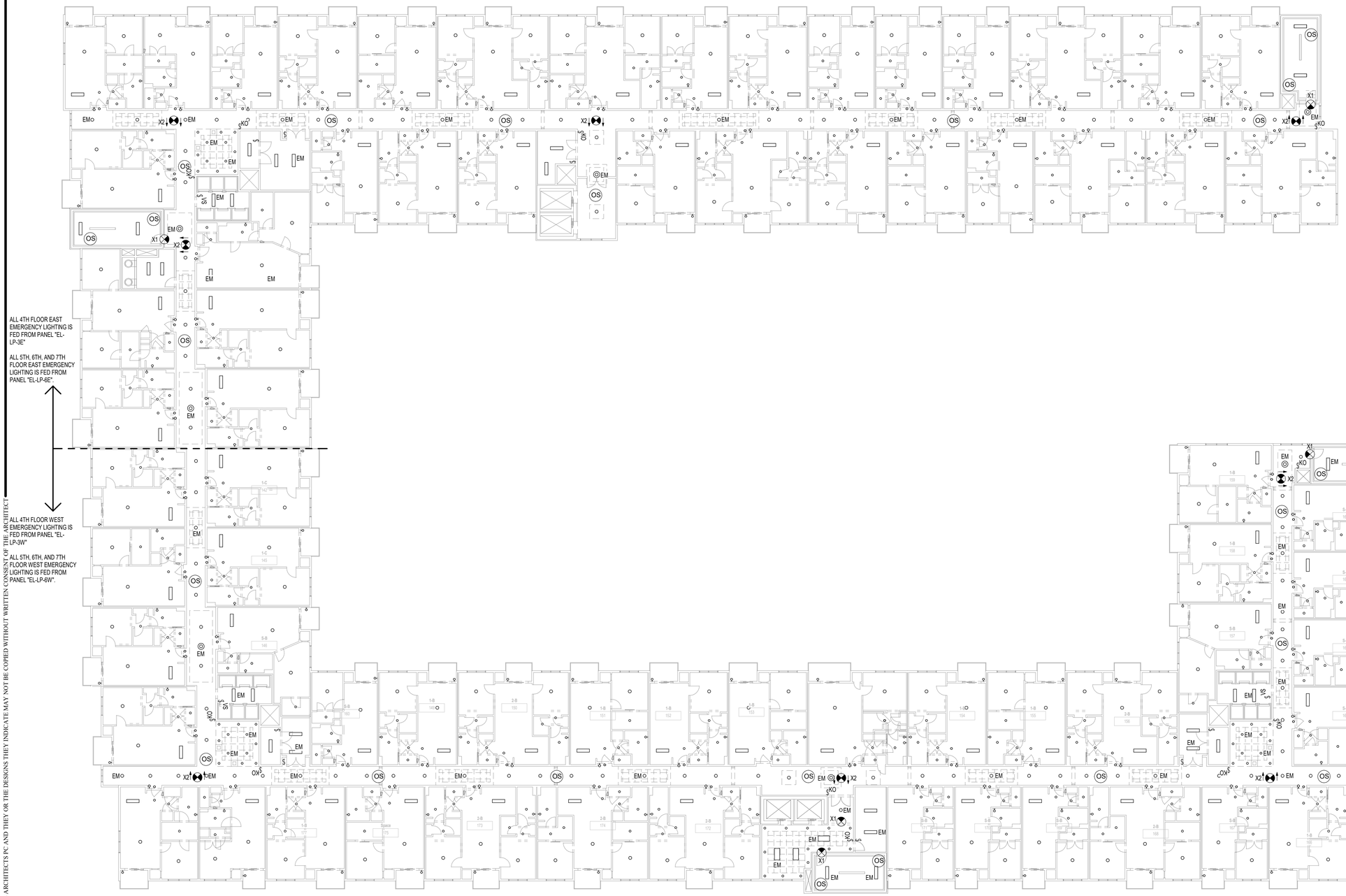

1 **TYPICAL FLOOR - LIGHTING RCP**
1/16" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. ALL NON-EMERGENCY LIGHTING ON 4TH AND 5TH FLOORS SHALL BE FED FROM PANEL "NL-LP-5" UNLESS OTHERWISE NOTED.
2. ALL NON-EMERGENCY LIGHTING ON 6TH AND 7TH FLOORS SHALL BE FED FROM PANEL "NL-LP-7" UNLESS OTHERWISE NOTED.
3. ALL EXIT SIGNS ARE 120V AND SHALL BE FED FROM EMERGENCY PANEL AS INDICATED ON PLAN. PROVIDE A LOCK-ON DEVICE ON CIRCUIT BREAKER.
4. COORDINATE ALL CEILING MOUNTED EXIT SIGNS TO BE VISIBLE UNDER THE PLANE OF PENDANT LIGHTS.
5. ALL EXIT SIGNS ABOVE DOORS NEED TO BE WALL MOUNTED TO A MINIMUM OF 6" ABOVE DOOR.
6. LOCATE ALL EXIT SIGNS TO THE CENTER OF THE CORRIDORS. ALL 120V LIGHT FIXTURES, EXIT SIGNS, AND EMERGENCY LIGHTING SHALL BE MOUNTED AT MINIMUM 8' 0" ABOVE FINISHED FLOOR. FOR FINAL FIXTURE ELEVATION, REFER TO INTERIOR DRAWINGS.
7. ALL LIGHTING CONTROL STATIONS ARE LOW VOLTAGE DIGITAL CONTROL STATIONS UNLESS OTHERWISE NOTED.
8. ALL SENSORS AND THEIR LOCATIONS INDICATED ARE DIAGRAMMATIC FOR REFERENCE ONLY. PROVIDE 100% COVERAGE BASED ON MANUFACTURER SENSOR REQUIREMENTS.
9. STAIRCASE LIGHT FIXTURES ARE TO BE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR. PROGRAM FIXTURES TO OPERATE AT 100% BRIGHTNESS WHILE OCCUPIED AND 50% BRIGHTNESS WHEN UNOCCUPIED.
10. ALL CORRIDOR NORMAL AND EMERGENCY LIGHT FIXTURES ARE TO BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR WITH LOCAL WALL MOUNTED KEYED OVERRIDE SWITCH. ALL CORRIDOR LIGHT FIXTURES (NORMAL AND EMERGENCY) SHALL BE DIMMED TO 50% BRIGHTNESS WHEN NO MOTION IS DETECTED. UPON ACTIVATION OF MOTION, ALL LIGHT FIXTURES (NORMAL AND EMERGENCY) SHALL AUTOMATICALLY INCREASE BRIGHTNESS TO 100%. LIGHTS SHALL DIM BACK DOWN TO 50% AFTER 15 MINUTE TIME DELAY WHEN NO MOTION IS DETECTED.
11. ELECTRICAL INSPECTOR TO VERIFY ALL EXIT SIGNS AND EMERGENCY LIGHTING IS ADEQUATE UPON SUBSTANTIAL COMPLETION.

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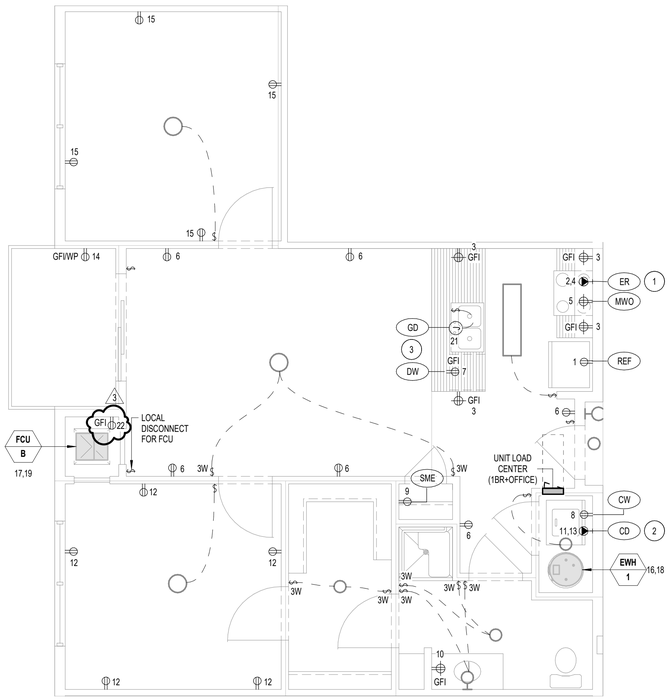
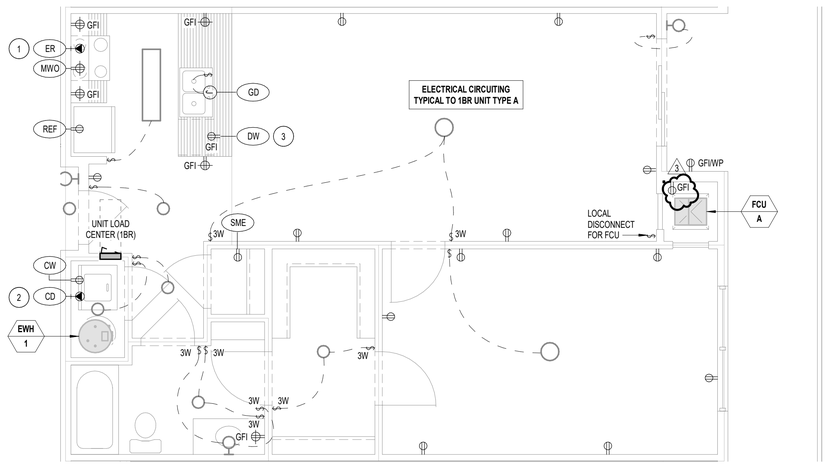


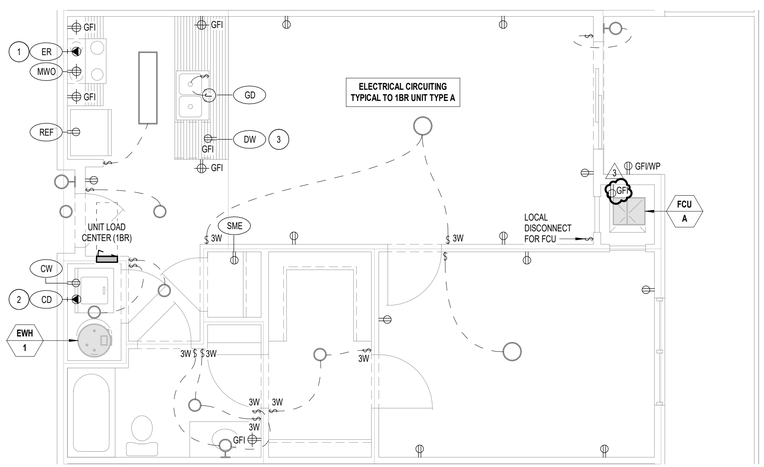
5 **ONE BEDROOM UNIT - TYPE E - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



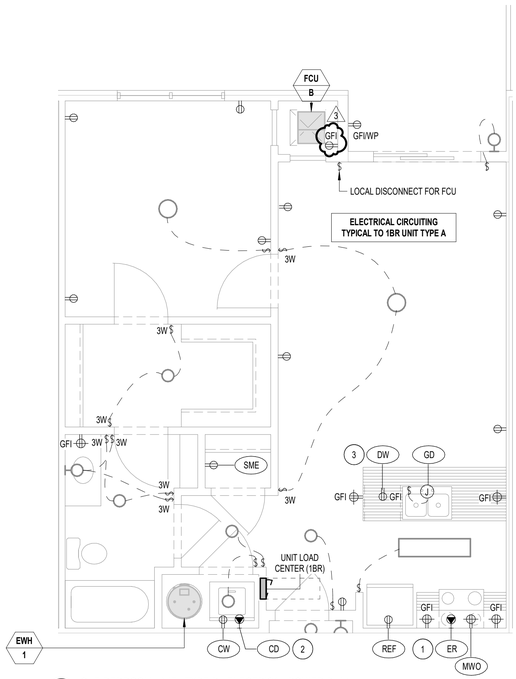
4 **ONE BEDROOM UNIT - TYPE D - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



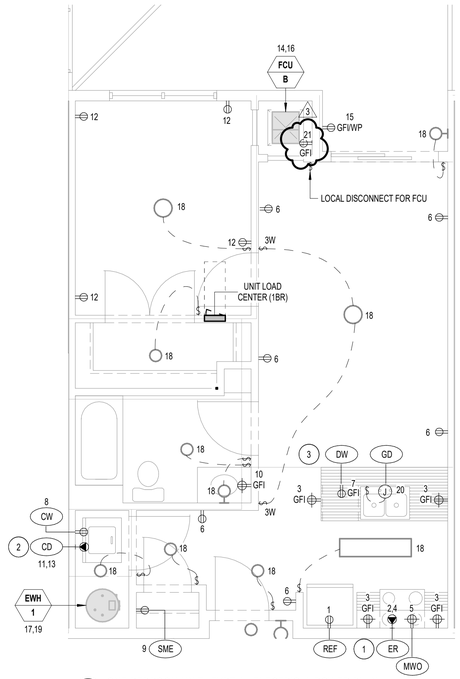
3 **ONE BEDROOM UNIT - TYPE C - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **ONE BEDROOM UNIT - TYPE B - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **ONE BEDROOM UNIT - TYPE A - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'

LEGEND

- ER — ELECTRIC RANGE
- REF — REFRIGERATOR
- CW — CLOTHES WASHER
- CD — CLOTHES DRYER
- SA — SMALL APPLIANCE
- MWO — MICROWAVE OVEN
- DW — DISHWASHER
- SME — STRUCTURED MEDIA CABINET
- GD — GARBAGE DISPOSAL

GENERAL NOTES

1. PROVIDE EACH BATHROOM WITH TWO SWITCHES - ONE SWITCH TO CONTROL LIGHTS AND ONE SWITCH TO CONTROL EXHAUST FAN.
2. INSTALL BATHROOM GFCI RECEPTACLES WITHIN 36 INCHES FROM THE OUTSIDE EDGE OF THE ADJACENT BASIN.
3. FOR EACH ADA UNIT, INSTALL ALL WALL MOUNTED OPERABLE DEVICES (RECEPTACLES, LIGHT SWITCHES, THERMOSTATS, ETC.) AS PER ADA STANDARDS AND GUIDELINES. REFER TO ARCHITECTURAL SHEETS AND ACCESSIBILITY MATRIX FOR ADA UNIT DESIGNATION AND ADDITIONAL DETAILS.
4. PROVIDE TAMPER-RESISTANT TYPE RECEPTACLES (GFCI AND NON-GFCI) IN RESIDENTIAL DWELLING UNITS.
5. RECEPTACLES TO BE MOUNTED HORIZONTALLY AND LOCATED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
6. CONCEAL ALL CONDUIT RACEWAYS WITHIN WALLS, FLOORS AND CEILINGS EXCEPT WHERE EXPLICITLY NOTED.
7. INSTALL ALL DEVICE BACK BOXES FULLY RECESSED IN WALLS UNLESS NOTED OTHERWISE.
8. COORDINATE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
9. PROVIDE COMMERCIAL HEAVY DUTY SPECIFICATION GRADE WIRING DEVICES (RECEPTACLES, TOGGLE SWITCHES, TELE/CATV DEVICES, ETC.).
10. PROVIDE GFCI, TAMPER RESISTANT TYPE RECEPTACLES FOR ALL RECEPTACLES LOCATED IN BATHROOMS, IN KITCHENS OR WITHIN 6'-0" FROM SINKS.
11. INSTALL RECEPTACLES SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6'-0" FROM A RECEPTACLE.
12. PROVIDE A LIGHT FIXTURE AND LIGHT SWITCH IN ALL CLOSETS MEASURING MORE THAN 5 SQUARE FEET.
13. PROVIDE ARC-FAULT CIRCUIT INTERUPTOR (AFCI) BREAKERS FOR ALL RECETPACLES LOCATED IN DWELLING UNITS.

SHEET NOTES

1. PROVIDE DEDICATED 208V-1PHASE CIRCUIT WITH 3 #8 AWG CU AND 1 #8 AWG CU GRD. IN 3/4" CONDUIT FOR ELECTRIC RANGE. PROVIDE 50A CIRCUIT BREAKER IN UNIT LOAD CENTER AND NEMA 14-50R UNIPLEX OUTLET MOUNTED BELOW THE COUNTER. COORDINATE AND VERIFY MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR ELECTRICAL OUTLET LOCATION PRIOR TO ROUGH-IN/INSTALLATION.
2. PROVIDE DEDICATED 208V-1PHASE CIRCUIT WITH 2 #10 AWG CU AND 1 #10 AWG CU GRD. IN 3/4" CONDUIT FOR CLOTHES DRYER. PROVIDE 30A GFI PROTECTED CIRCUIT BREAKER IN UNIT LOAD CENTER AND NEMA 14-30R RECEPTACLE. PROVIDE CORD CAP FOR EQUIPMENT TO MATCH RECEPTACLE. COORDINATE EXACT THE LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION.
3. PROVIDE A DEDICATED 20A GFI RECEPTACLE MOUNTED BELOW THE COUNTER FOR DISHWASHER. PROVIDE POWER CORD KIT FOR EQUIPMENT TO MATCH RECEPTACLE. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF THE RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION.

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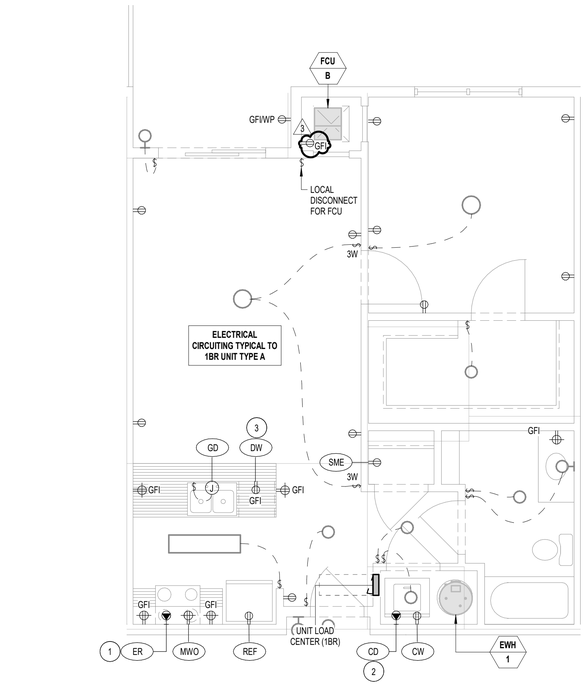
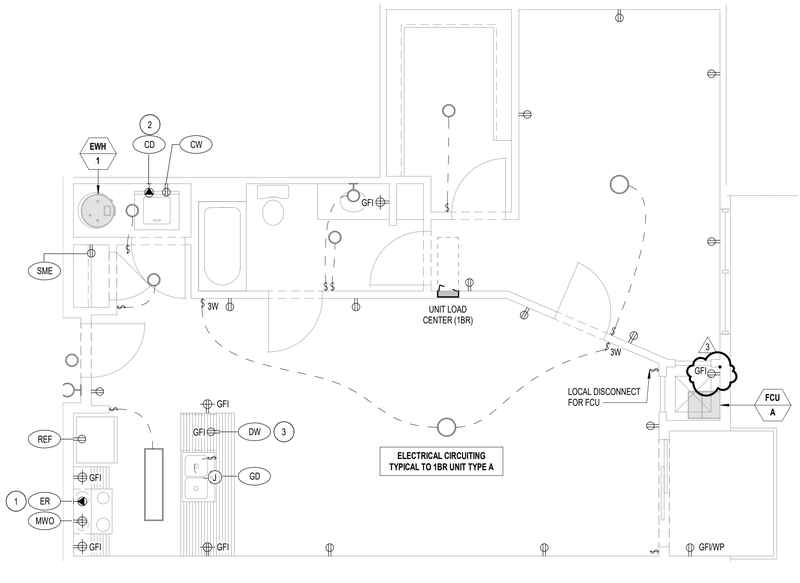
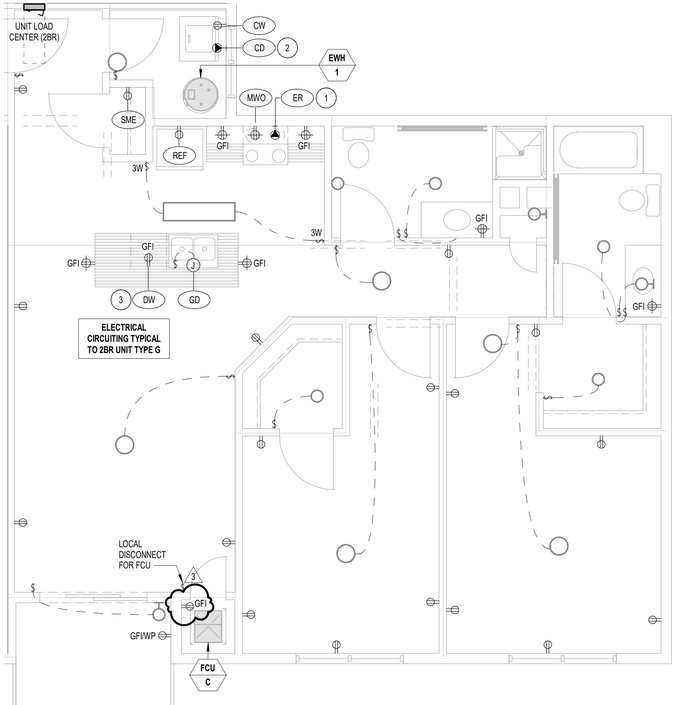


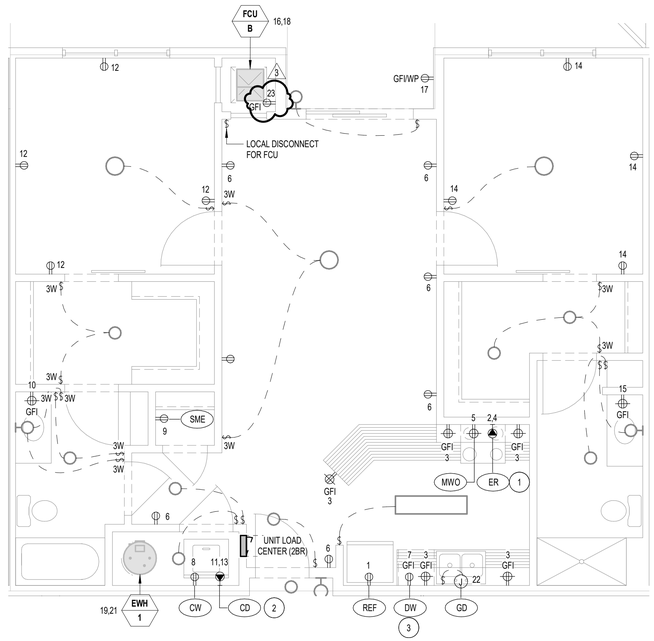
5 **ONE BEDROOM UNIT - TYPE K - ELECTRICAL POWER PLAN**
1/4" = 1'-0"



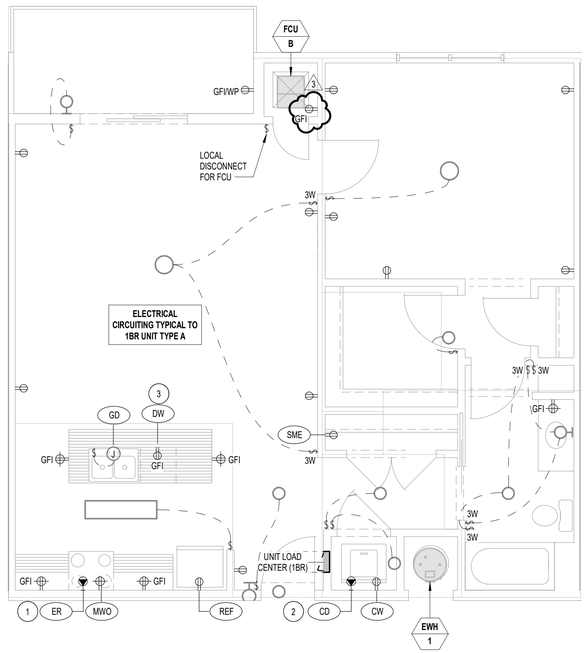
4 **ONE BEDROOM UNIT - TYPE J - ELECTRICAL POWER PLAN**
1/4" = 1'-0"



3 **TWO BEDROOM UNIT - TYPE H - ELECTRICAL POWER PLAN**
1/4" = 1'-0"



2 **TWO BEDROOM UNIT - TYPE G - ELECTRICAL POWER PLAN**
1/4" = 1'-0"



1 **ONE BEDROOM UNIT - TYPE F - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

LEGEND

ER	ELECTRIC RANGE
REF	REFRIGERATOR
CW	CLOTHES WASHER
CD	CLOTHES DRYER
SA	SMALL APPLIANCE
DW	DISHWASHER
SME	STRUCTURED MEDIA CABINET
RH	RANGE HOOD

GENERAL NOTES

1. PROVIDE EACH BATHROOM WITH TWO SWITCHES - ONE SWITCH TO CONTROL LIGHTS AND ONE SWITCH TO CONTROL EXHAUST FAN.
2. INSTALL BATHROOM GFCI RECEPTACLES WITHIN 36 INCHES FROM THE OUTSIDE EDGE OF THE ADJACENT BASIN.
3. FOR EACH ADA UNIT, INSTALL ALL WALL MOUNTED OPERABLE DEVICES (RECEPTACLES, LIGHT SWITCHES, THERMOSTATS, ETC.) AS PER ADA STANDARDS AND GUIDELINES. REFER TO ARCHITECTURAL SHEETS AND ACCESSIBILITY MATRIX FOR ADA UNIT DESIGNATION AND ADDITIONAL DETAILS.
4. PROVIDE TAMPER-RESISTANT TYPE RECEPTACLES (GFCI AND NON-GFCI) IN RESIDENTIAL DWELLING UNITS.
5. RECEPTACLES TO BE MOUNTED HORIZONTALLY AND LOCATED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
6. CONCEAL ALL CONDUIT RACEWAYS WITHIN WALLS, FLOORS AND CEILINGS EXCEPT WHERE EXPLICITLY NOTED.
7. INSTALL ALL DEVICE BACK BOXES FULLY RECESSED IN WALLS UNLESS NOTED OTHERWISE.
8. COORDINATE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
9. PROVIDE COMMERCIAL HEAVY DUTY SPECIFICATION GRADE WIRING DEVICES (RECEPTACLES, TOGGLE SWITCHES, TELE/CATV DEVICES, ETC.).
10. PROVIDE GFCI, TAMPER RESISTANT TYPE RECEPTACLES FOR ALL RECEPTACLES LOCATED IN BATHROOMS, IN KITCHENS OR WITHIN 6'-0" FROM SINKS.
11. INSTALL RECEPTACLES SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6'-0" FROM A RECEPTACLE.
12. PROVIDE A LIGHT FIXTURE AND LIGHT SWITCH IN ALL CLOSETS MEASURING MORE THAN 5 SQUARE FEET.
13. PROVIDE ARC-FAULT CIRCUIT INTERUPTOR (AFCI) BREAKERS FOR ALL RECETPACLES LOCATED IN DWELLING UNITS.

SHEET NOTES

1. PROVIDE DEDICATED 208V-1PHASE CIRCUIT WITH 3 #8 AWG CU AND 1 #8 AWG CU GRD. IN 3/4" CONDUIT FOR ELECTRIC RANGE. PROVIDE 50A CIRCUIT BREAKER IN UNIT LOAD CENTER AND NEMA 14-50R UNIPLEX OUTLET MOUNTED BELOW THE COUNTER. COORDINATE AND VERIFY MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR ELECTRICAL OUTLET LOCATION PRIOR TO ROUGH-IN/INSTALLATION.
2. PROVIDE DEDICATED 208V-1PHASE CIRCUIT WITH 2 #10 AWG CU AND 1 #10 AWG CU GRD. IN 3/4" CONDUIT FOR CLOTHES DRYER. PROVIDE 30A GFI PROTECTED CIRCUIT BREAKER IN UNIT LOAD CENTER AND NEMA 14-30R RECEPTACLE. PROVIDE CORD CAP FOR EQUIPMENT TO MATCH RECEPTACLE. COORDINATE EXACT THE LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION.
3. PROVIDE A DEDICATED 20A GFI RECEPTACLE MOUNTED BELOW THE COUNTER FOR DISHWASHER. PROVIDE POWER CORD KIT FOR EQUIPMENT TO MATCH RECEPTACLE. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF THE RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION.

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
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DATE
15 APR 2021

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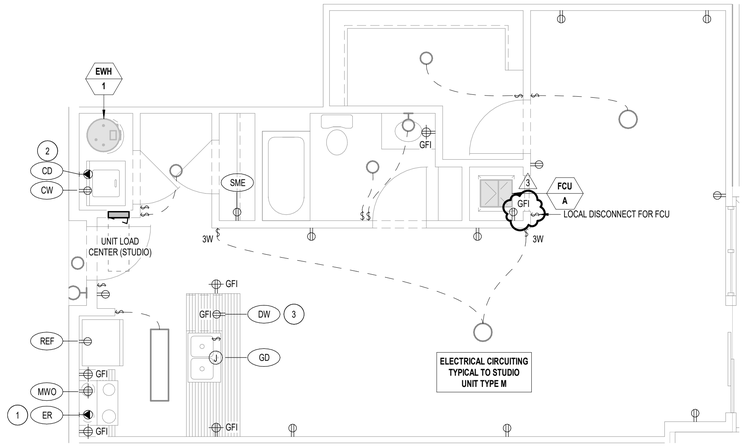


4 **STUDIO UNIT - TYPE O - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'

LEGEND

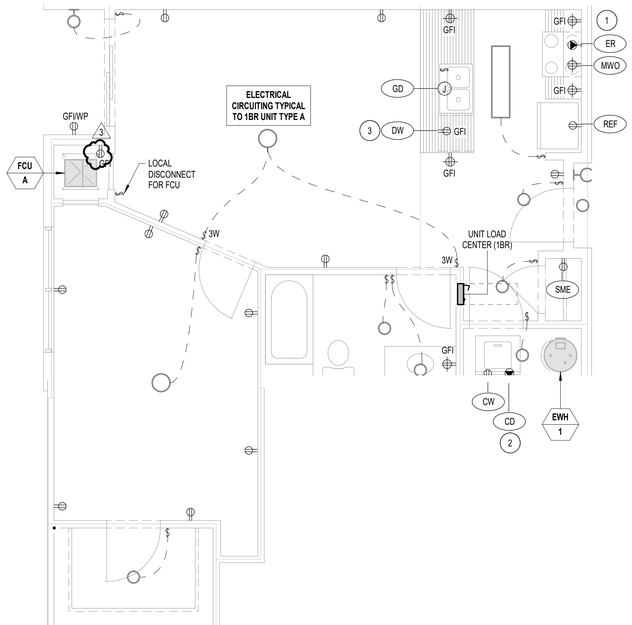
- ER — ELECTRIC RANGE
- REF — REFRIGERATOR
- CW — CLOTHES WASHER
- CD — CLOTHES DRYER
- SA — SMALL APPLIANCE
- DW — DISHWASHER
- SME — STRUCTURED MEDIA CABINET
- RH — RANGE HOOD

GENERAL NOTES

1. PROVIDE EACH BATHROOM WITH TWO SWITCHES - ONE SWITCH TO CONTROL LIGHTS AND ONE SWITCH TO CONTROL EXHAUST FAN.
2. INSTALL BATHROOM GFCI RECEPTACLES WITHIN 36 INCHES FROM THE OUTSIDE EDGE OF THE ADJACENT BASIN.
3. FOR EACH ADA UNIT, INSTALL ALL WALL MOUNTED OPERABLE DEVICES (RECEPTACLES, LIGHT SWITCHES, THERMOSTATS, ETC.) AS PER ADA STANDARDS AND GUIDELINES. REFER TO ARCHITECTURAL SHEETS AND ACCESSIBILITY MATRIX FOR ADA UNIT DESIGNATION AND ADDITIONAL DETAILS.
4. PROVIDE TAMPER-RESISTANT TYPE RECEPTACLES (GFCI AND NON-GFCI) IN RESIDENTIAL DWELLING UNITS.
5. RECEPTACLES TO BE MOUNTED HORIZONTALLY AND LOCATED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
6. CONCEAL ALL CONDUIT RACEWAYS WITHIN WALLS, FLOORS AND CEILINGS EXCEPT WHERE EXPLICITLY NOTED.
7. INSTALL ALL DEVICE BACK BOXES FULLY RECESSED IN WALLS UNLESS NOTED OTHERWISE.
8. COORDINATE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
9. PROVIDE COMMERCIAL HEAVY DUTY SPECIFICATION GRADE WIRING DEVICES (RECEPTACLES, TOGGLE SWITCHES, TELE/CATV DEVICES, ETC.).
10. PROVIDE GFCI, TAMPER RESISTANT TYPE RECEPTACLES FOR ALL RECEPTACLES LOCATED IN BATHROOMS, IN KITCHENS OR WITHIN 6'-0" FROM SINKS.
11. INSTALL RECEPTACLES SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6'-0" FROM A RECEPTACLE.
12. PROVIDE A LIGHT FIXTURE AND LIGHT SWITCH IN ALL CLOSETS MEASURING MORE THAN 5 SQUARE FEET.
13. PROVIDE ARC-FAULT CIRCUIT INTERUPTOR (AFCI) BREAKERS FOR ALL RECETPACLES LOCATED IN DWELLING UNITS.

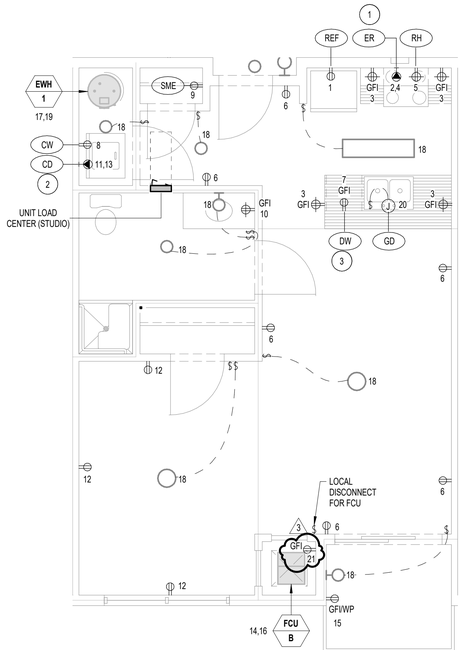
SHEET NOTES

1. PROVIDE DEDICATED 208V-1PHASE CIRCUIT WITH 3 #8 AWG CU AND 1 #8 AWG CU GRD. IN 3/4" CONDUIT FOR ELECTRIC RANGE. PROVIDE 50A CIRCUIT BREAKER IN UNIT LOAD CENTER AND NEMA 14-50R UNIPLEX OUTLET MOUNTED BELOW THE COUNTER. COORDINATE AND VERIFY MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR ELECTRICAL OUTLET LOCATION PRIOR TO ROUGH-IN/INSTALLATION.
2. PROVIDE DEDICATED 208V-1PHASE CIRCUIT WITH 2 #10 AWG CU AND 1 #10 AWG CU GRD. IN 3/4" CONDUIT FOR CLOTHES DRYER. PROVIDE 30A GFI PROTECTED CIRCUIT BREAKER IN UNIT LOAD CENTER AND NEMA 14-30R RECEPTACLE. PROVIDE CORD CAP FOR EQUIPMENT TO MATCH RECEPTACLE. COORDINATE EXACT THE LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION.
3. PROVIDE A DEDICATED 20A GFI RECEPTACLE MOUNTED BELOW THE COUNTER FOR DISHWASHER. PROVIDE POWER CORD KIT FOR EQUIPMENT TO MATCH RECEPTACLE. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF THE RECEPTACLE WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION.



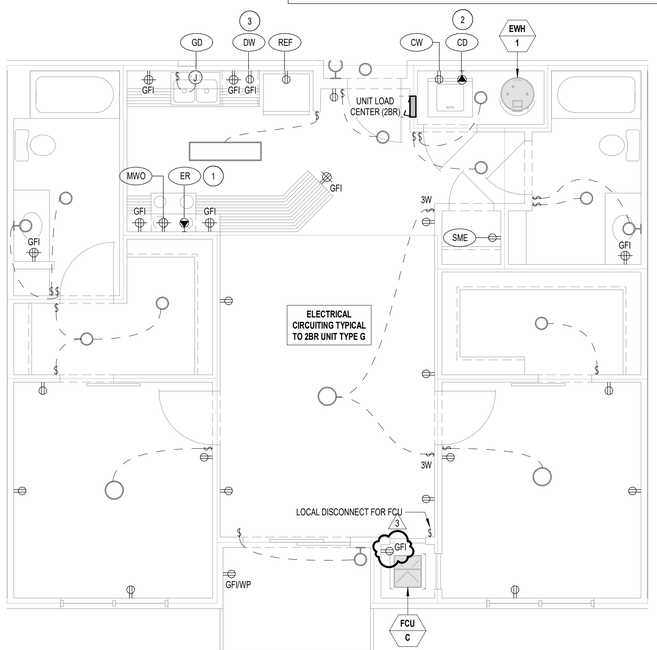
3 **ONE BEDROOM UNIT - TYPE N - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **STUDIO UNIT - TYPE M - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **TWO BEDROOM UNIT - TYPE L - ELECTRICAL POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'

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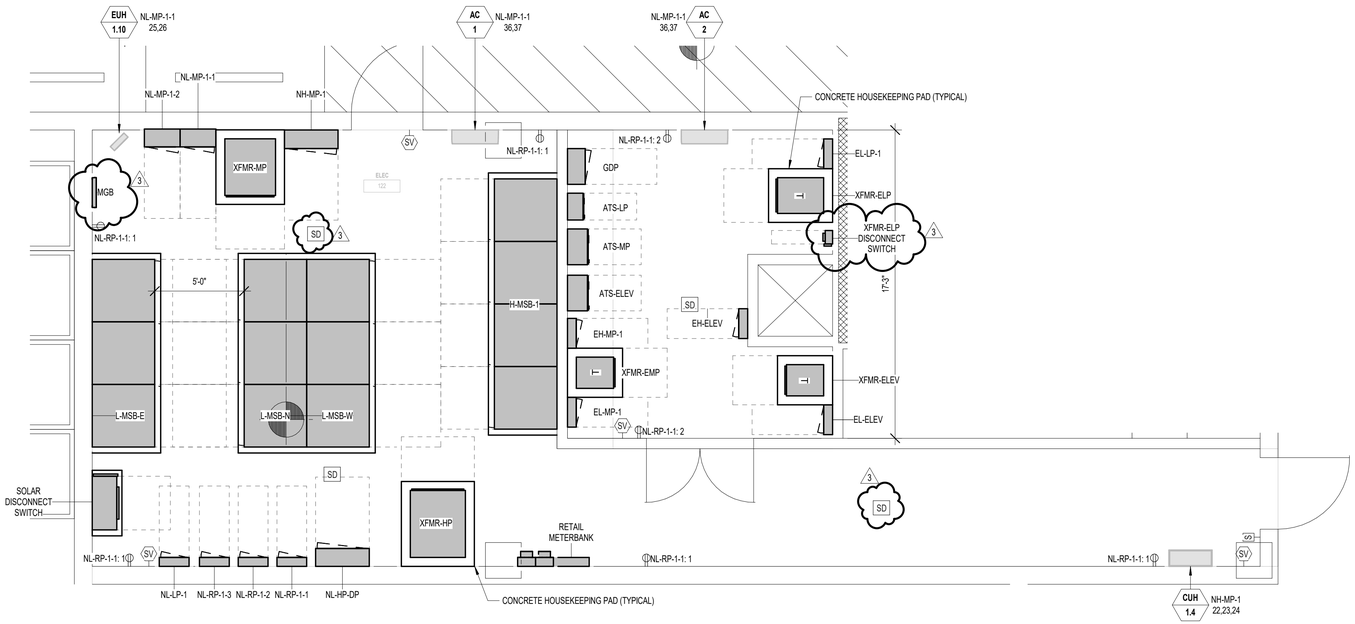
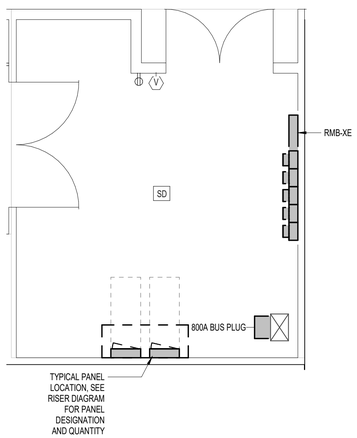


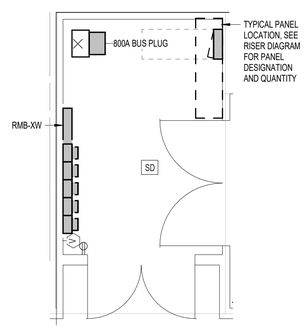
1 **FIRST FLOOR - MAIN ELECTRICAL ROOM - POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



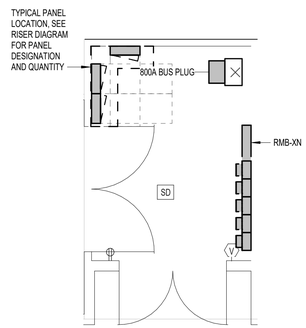
4 **TYPICAL FLOOR - EAST ELECTRICAL CLOSET - POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



3 **TYPICAL FLOOR - WEST ELECTRICAL CLOSET - POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **TYPICAL FLOOR - NORTH ELECTRICAL CLOSET - POWER PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'

GENERAL NOTES

1. REFER TO SHEET E4.0 FOR RISER DIAGRAM AND ADDITIONAL INFORMATION ON POWER DISTRIBUTION IN THE BUILDING.
2. FEED ALL RECEPTACLES ON THE FIRST FLOOR FROM HOUSE RECEPTACLE PANEL NL-RP-1-1 UNLESS OTHERWISE NOTED.
3. FEED ALL MECHANICAL, PLUMBING EQUIPMENT ON FIRST FLOOR FROM THE HOUSE MECHANICAL PANEL AS INDICATED.
4. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT FITS WITHIN THE FOOTPRINT OUTLINED IN THESE DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PAD, RACEWAY, AND WIRING TO ACCOMMODATE FINAL EQUIPMENT SIZES.
5. SEE POWERED EQUIPMENT SCHEDULE AND PANELBOARD SCHEDULES FOR HVAC, PLUMBING AND MISC EQUIPMENT WIRING REQUIREMENTS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT.
6. COORDINATE MOUNTING HEIGHTS OF ALL RECEPTACLES WITH ARCHITECTS PRIOR TO ROUGH-IN/INSTALLATION.
7. REFER TO SHEET SERIES E5.X FOR PANELBOARD SCHEDULES.
8. REFER TO SHEET FA0.0 FOR FIRE ALARM RISER DIAGRAM
9. ENSURE THAT ALL PANELBOARD, SWITCHBOARD CLEARANCES ARE PROPERLY MAINTATINED PER NEC 110.26
10. ALL DOORS IN ELECTRICAL CLOSETS TO SWING IN THE DIRECTION OF EGRESS AND SHALL BE EQUIPPED WITH PANIC HARDWARE.

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
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TECHNICIANS
JMB
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LEGEND

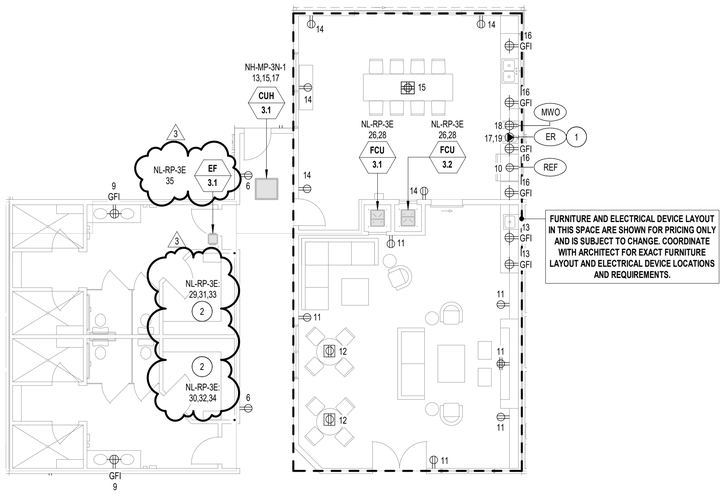
- ER — ELECTRIC RANGE
- REF — REFRIGERATOR
- MWO — MICROWAVE OVEN

GENERAL NOTES

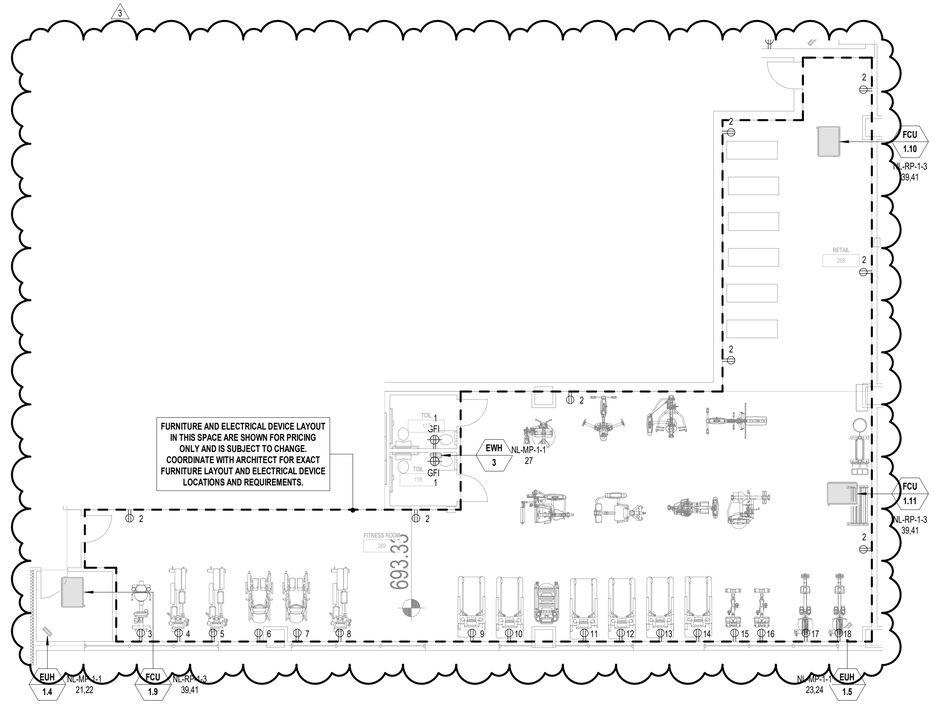
1. REFER TO SHEET E4.0 FOR RISER DIAGRAM AND ADDITIONAL INFORMATION ON POWER DISTRIBUTION IN THE BUILDING.
2. FEED ALL RECEPTACLES IN THE FIRST FLOOR AMENITY SPACE FROM HOUSE RECEPTACLE PANEL NL-RP-1-2 UNLESS OTHERWISE NOTED.
3. FEED ALL RECEPTACLES IN THE FIRST FLOOR FITNESS SPACE FROM HOUSE RECEPTACLE PANEL NL-RP-1-3 UNLESS OTHERWISE NOTED.
4. FEED ALL RECEPTACLES IN THE THIRD FLOOR AMENITY SPACE FROM HOUSE RECEPTACLE PANEL NL-RP-3E UNLESS OTHERWISE NOTED.
5. FEED ALL MECHANICAL, PLUMBING EQUIPMENT FROM THE HOUSE MECHANICAL PANEL AS INDICATED.
6. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT FITS WITHIN THE FOOTPRINT OUTLINED IN THESE DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PAD, RACEWAY, AND WIRING TO ACCOMMODATE FINAL EQUIPMENT SIZES.
7. SEE POWERED EQUIPMENT SCHEDULE AND PANELBOARD SCHEDULES FOR HVAC, PLUMBING AND MISC EQUIPMENT WIRING REQUIREMENTS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT.
8. COORDINATE MOUNTING HEIGHTS OF ALL RECEPTACLES WITH ARCHITECTS PRIOR TO ROUGH-IN/INSTALLATION.
9. REFER TO SHEET SERIES E5.X FOR PANELBOARD SCHEDULES.
10. REFER TO SHEET E4.4 FOR FIRE ALARM RISER DIAGRAM.

SHEET NOTES

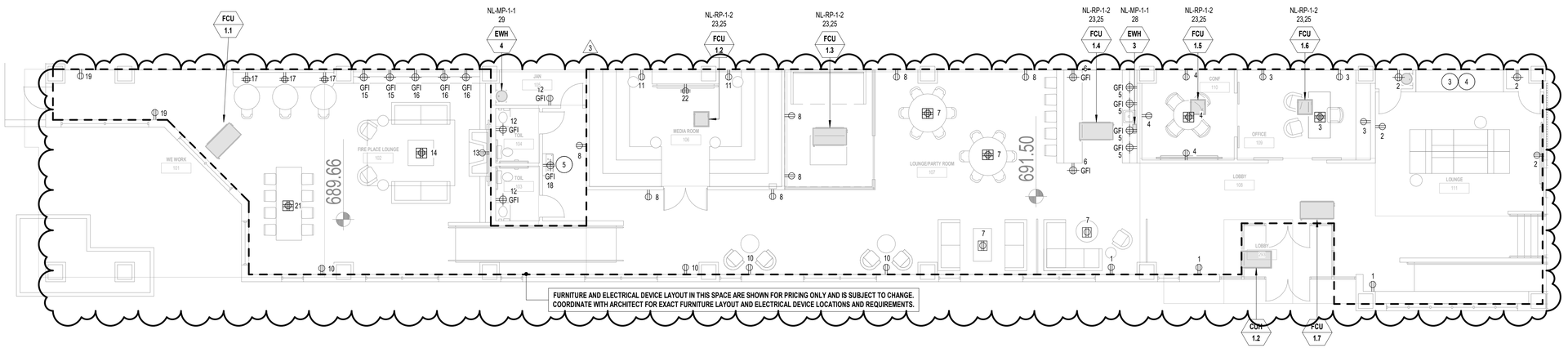
1. PROVIDE DEDICATED 208V-1PHASE CIRCUIT WITH 3 #8 AWG CU AND 1 #8 AWG CU GRD. IN 3/4" CONDUIT FOR ELECTRIC RANGE. PROVIDE 50A CIRCUIT BREAKER IN UNIT LOAD CENTER AND NEMA 14-50R UNIPLEX OUTLET MOUNTED BELOW THE COUNTER. COORDINATE AND VERIFY MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR ELECTRICAL OUTLET LOCATION PRIOR TO ROUGH-IN/INSTALLATION.
2. PROVIDE DEDICATED 208V-3PHASE CIRCUIT FOR PRE-FABRICATED SAUNA . COORDINATE EXACT REQUIREMENTS WITH ARCHITECT AND MANUFACTURER PRIOR TO ROUGH-IN/INSTALLATION.
3. PROVIDE (2) DEDICATED 208V-1PHASE CIRCUITS FOR FISH TANK CIRCUITED TO PANEL "NL-RP-1-3" . COORDINATE EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION.
4. PROVIDE (10) DEDICATED 120V-1PHASE CIRCUITS FOR FISH TANK CIRCUITED TO PANEL "NL-RP-1-3" COORDINATE EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION.
5. PROVIDE DEDICATED 120V-1PHASE CIRCUIT FOR ELECTRIC WATER COOLER CIRCUITED TO PANEL "NL-RP-1-2".



3 THIRD FLOOR - POWER PLAN - AMENITY SPACE
1/8" = 1'-0"



2 FIRST FLOOR - POWER PLAN - FITNESS CENTER
1/8" = 1'-0"



1 FIRST FLOOR - POWER PLAN - AMENITY SPACE
1/8" = 1'-0"

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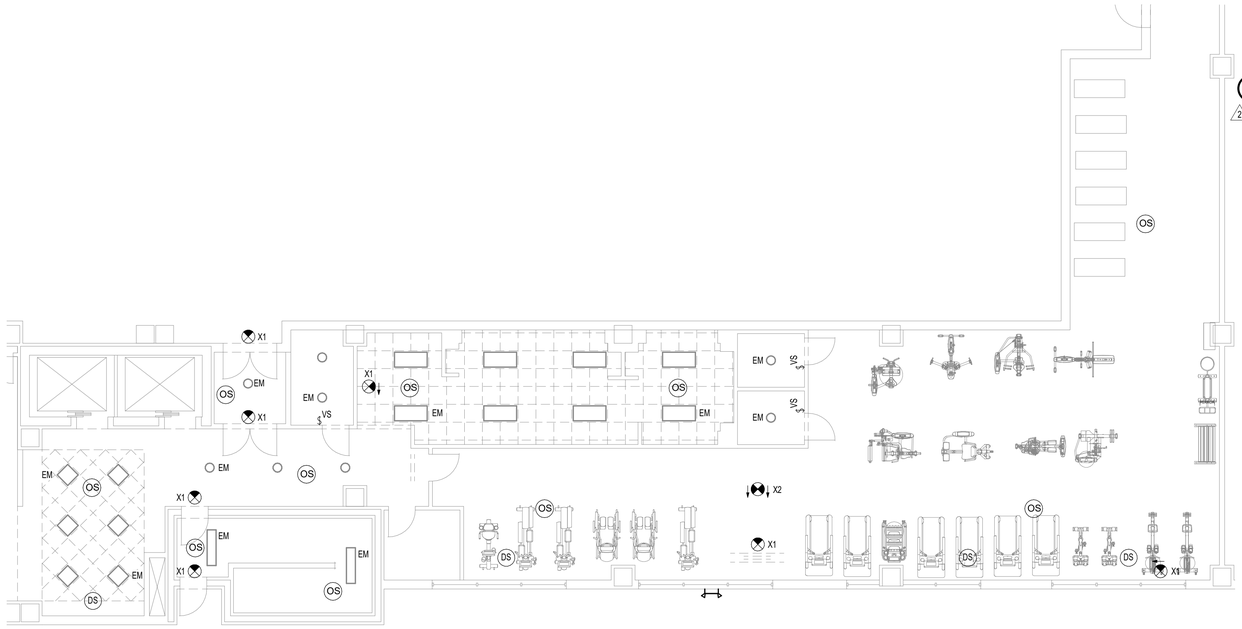
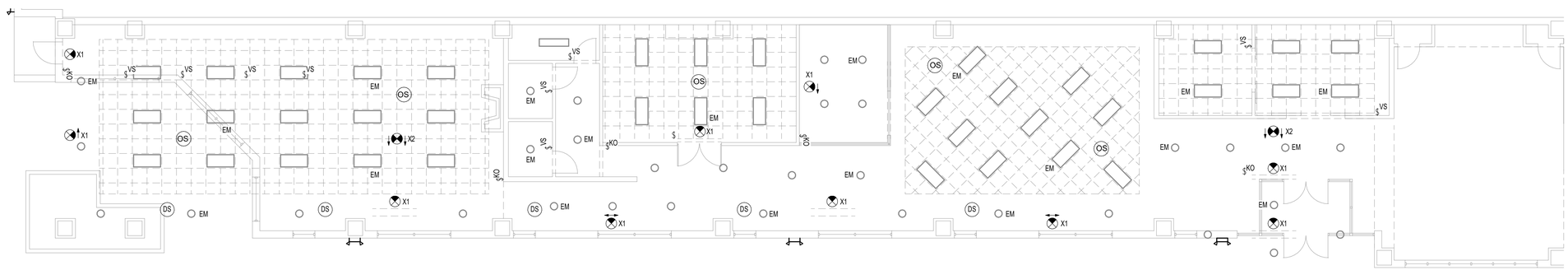
3 **THIRD FLOOR - LIGHTING RCP - AMENITY SPACE**
1/8" = 1'-0"

0' 4' 8' 16' 32'



2 **FIRST FLOOR - LIGHTING RCP - FITNESS CENTER**
1/8" = 1'-0"

0' 4' 8' 16' 32'



1 **FIRST FLOOR - LIGHTING RCP - AMENITY SPACE**
1/8" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. ALL NON-EMERGENCY LIGHTING IN 1ST FLOOR AMENITY SPACES SHALL BE FED FROM PANEL "NL-LP-1" UNLESS OTHERWISE NOTED.
2. ALL EMERGENCY LIGHTING IN 1ST FLOOR AMENITY SPACES SHALL BE FED FROM PANEL "EL-LP-1" UNLESS OTHERWISE NOTED.
3. ALL NON-EMERGENCY LIGHTING IN 3RD FLOOR AMENITY SPACES SHALL BE FED SHALL BE FED FROM PANEL "NL-LP-3N" UNLESS OTHERWISE NOTED.
4. ALL EMERGENCY LIGHTING IN 3RD FLOOR AMENITY SPACES SHALL BE FED FROM PANEL "EL-LP-3W" UNLESS OTHERWISE NOTED.
5. ALL EXIT SIGNS ARE 120V AND SHALL BE FED FROM PANEL "EL-LP-1"/"EL-LP-3W" UNLESS OTHERWISE NOTED. PROVIDE A LOCK-ON DEVICE ON CIRCUIT BREAKER.
6. COORDINATE ALL CEILING MOUNTED EXIT SIGNS TO BE VISIBLE UNDER THE PLANE OF PENDANT LIGHTS.
7. ALL EXIT SIGNS ABOVE DOORS NEED TO BE WALL MOUNTED TO A MINIMUM OF 6" ABOVE DOOR.
8. LOCATE ALL EXIT SIGNS TO THE CENTER OF THE AISLES. ALL 120V LIGHT FIXTURES, EXIT SIGNS, AND EMERGENCY LIGHTING SHALL BE MOUNTED AT MINIMUM 8' 0" ABOVE FINISHED FLOOR. FOR FINAL FIXTURE ELEVATION, REFER TO INTERIOR DRAWINGS.
9. ALL LIGHTING CONTROL STATIONS ARE LOW VOLTAGE DIGITAL CONTROL STATIONS UNLESS OTHERWISE NOTED.
10. ALL SENSORS AND THEIR LOCATIONS INDICATED ARE DIAGRAMMATIC FOR REFERENCE ONLY. PROVIDE 100% COVERAGE BASED ON MANUFACTURER SENSOR REQUIREMENTS.
11. ELECTRICAL INSPECTOR TO VERIFY ALL EXIT SIGNS AND EMERGENCY LIGHTING IS ADEQUATE UPON SUBSTANTIAL COMPLETION.

2

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E3.5

JONES & JONES ASSOCIATES / ARCHITECTS PC

LEGEND

(SM) MULTIPOINT SUB-METERING

L ♦ CURRENT SENSOR FOR LIGHTING LOAD

R ♦ CURRENT SENSOR FOR RECEPTACLE LOAD

M ♦ CURRENT SENSOR FOR MOTOR LOAD

SHEET NOTES

1. PROVIDE 125A, 120/208V, 1PH, 3W LOAD CENTER WITH 32 CIRCUIT BREAKERS. SEE TYPICAL LOAD CENTER SCHEDULES FOR ADDITIONAL DETAILS AND CIRCUITING.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ENERGY MONITORING AND MANAGEMENT SYSTEM IN COMPLIANCE WITH ASHRAE 90.1 2013 / 2016, SECTION 8.4.3. PROVIDE ALL ENERGY METERING COMPLETE WITH METERS, CURRENT SENSORS, LINE AND LOW VOLTAGE WIRING, CONDUIT, BOXES, COMMUNICATIONS BOARDS, SOFTWARE, HARDWARE, FUSE KITS BONDING KITS AND ALL RELATED EQUIPMENT FOR A FULLY FUNCTIONAL, STAND-ALONE, TURN-KEY ENERGY MONITORING SYSTEM. INCLUDE ALL INTERFACE WITH BUILDING BAS SYSTEM AND PROVIDE REQUIRED SOFTWARE, PROGRAMMING, TESTING AND OWNER TRAINING. REFER TO SPECIFICATION SECTION 26 27 14 - ELECTRICITY SUB-METERING.
3. PROVIDE (2) EMPTY 4" CONDUITS AND (2) EMPTY 1" CONDUITS FOR FUTURE CONNECTION TO PV SYSTEM.
4. TENANT UNIT FEEDERS BASED ON LENGTH:

   1' UP TO 180' = 3 #1, 1 #6 EG - 1 1/2" C
   181' UP TO 220' = 3 #1/0, 1 #4 EG - 1 1/2" C
   221' UP TO 260' = 3 #2/0, 1 #4 EG - 1 1/2" C
   261' UP TO 330' = 3 #3/0, 1 #3 EG - 2" C
   VERIFY THAT LUGS AT METER CENTERS AND TENANT PANELS ARE ABLE TO ACCOMMODATE FEEDER CABLE SIZES THAT ARE BEING UPSIZED TO ACCOMMODATE VOLTAGE DROP.

GENERAL NOTES

1. REFER SHEET E4.2 FOR FEEDER SCHEDULE.
2. PROVIDE MINIMUM OF 10% SPARES FOR PANELBOARDS AND SWITCHBOARD.
3. PROVIDE ALL REQUIRED CONTROL MODULES, HARDWARE, SOFTWARE, PROGRAMMING, CONDUIT, LINE AND LOW VOLTAGE WIRING, ETC. AT ELEVATOR CONTROLLER FOR A COMPLETE OPERATIONAL ELEVATOR CONTROL SYSTEM. REFER TO DETAIL #4 ON SHEET E6.1 FOR ADDITIONAL INFORMATION.
4. REFER TO DETAIL #1 ON SHEET E6_1 FOR ADDITIONAL INFORMATION REGARDING BUSWAY PENETRATION.
5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING COORDINATION STUDIES. SEE ELECTRICAL SPECIFICATION SECTION 260573 FOR FURTHER DETAILS ON ALL REQUIREMENTS.

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NEMA 3R PULL BOX FOR CONNECTION TO SOLAR - COORDINATE EXACT LOCATION WITH PV PROVIDER

LEVEL 7

METERBANK "RMB-7E" SERVES 7TH FLOOR RESIDENTIAL LOAD CENTERS — (24) 125A METERS WITH 125A-2P MAIN BREAKERS
EAST ELECTRICAL CLOSET — 3 — 23B — 12B — NL-RP-7E 225A 120/208V 3PH,4W — NH-MP-7E 800A 277/480V 3PH,4W
TOTAL OF 24 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W
METERBANK "RMB-7N" SERVES 7TH FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
23B — 9B — NL-LP-7N 150A 120/208V 3PH,4W — NH-MP-7N 800A 277/480V 3PH,4W
NORTH ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W
METERBANK "RMB-7W" SERVES 7TH FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
23B — NH-MP-7W 800A 277/480V 3PH,4W
WEST ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W

LEVEL 6

METERBANK "RMB-6E" SERVES 6TH FLOOR RESIDENTIAL LOAD CENTERS — (24) 125A METERS WITH 125A-2P MAIN BREAKERS
EAST ELECTRICAL CLOSET — TOTAL OF 24 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W
METERBANK "RMB-6N" SERVES 6TH FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
12B — NH-MP-6N 225A 277/480V 3PH,4W
NORTH ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W
METERBANK "RMB-6W" SERVES 6TH FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
WEST ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W

LEVEL 5

METERBANK "RMB-5E" SERVES 5TH FLOOR RESIDENTIAL LOAD CENTERS — (24) 125A METERS WITH 125A-2P MAIN BREAKERS
EAST ELECTRICAL CLOSET — 12B — NL-RP-5E 225A 120/208V 3PH,4W — TOTAL OF 24 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W
METERBANK "RMB-5N" SERVES 5TH FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
9B — NL-LP-5N 150A 120/208V 3PH,4W
NORTH ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W
METERBANK "RMB-5W" SERVES 5TH FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
WEST ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W

LEVEL 4

METERBANK "RMB-4E" SERVES 4TH FLOOR RESIDENTIAL LOAD CENTERS — (24) 125A METERS WITH 125A-2P MAIN BREAKERS
EAST ELECTRICAL CLOSET — TOTAL OF 24 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W
METERBANK "RMB-4N" SERVES 4TH FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
NORTH ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W
METERBANK "RMB-4W" SERVES 4TH FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
WEST ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — UNIT LOAD CENTER 125A 120/208V 1PH,3W

LEVEL 3

METERBANK "RMB-3E" SERVES 3RD FLOOR RESIDENTIAL LOAD CENTERS — (24) 125A METERS WITH 125A-2P MAIN BREAKERS
800A-3P PLUG -IN BUS TAP (TYPICAL)
EAST ELECTRICAL CLOSET — 12B — NL-RP-3E 225A 120/208V 3PH,4W — TOTAL OF 24 UNIT LOAD CENTERS — 3 — 1 — 4 — (TYPICAL) — UNIT LOAD CENTER 125A 120/208V 1PH,3W
TO TENANT METERBANK (TYPICAL) — 800A-3P PLUG -IN BUS TAP (TYPICAL)
METERBANK "RMB-3N" SERVES 3RD FLOOR RESIDENTIAL LOAD CENTERS — (23) 125A METERS WITH 125A-2P MAIN BREAKERS
12B — 9B — NL-LP-3N 150A 120/208V 3PH,4W — NH-MP-3N-1 225A 277/480V 3PH,4W — NH-MP-3N-2 225A 277/480V 3PH,4W
NORTH ELECTRICAL CLOSET — TOTAL OF 23 UNIT LOAD CENTERS — 1 — 4 — (TYPICAL) — UNIT LOAD CENTER 125A 120/208V 1PH,3W
800A-3P PLUG -IN BUS TAP (TYPICAL)
METERBANK "RMB-3W" SERVES 3RD FLOOR RESIDENTIAL LOAD CENTERS — (21) 125A METERS WITH 125A-2P MAIN BREAKERS
WEST ELECTRICAL CLOSET — TOTAL OF 21 UNIT LOAD CENTERS — 1 — 4 — (TYPICAL) — UNIT LOAD CENTER 125A 120/208V 1PH,3W

4000A,208/120V, 3PH, 4W CU WEATHERPROOF PLUG-IN BUSWAY

17B — NH-POOL 400A 277/480V 3PH,4W
5A — XFMR-POOL 45KVA 480V DELTA 120/208V WYE
10B — NL-POOL 175A 120/208V 3PH,4W

LEVEL 2

RETAIL — RESTAURANT FIRE PUMP ROOM

EMERGENCY ATS ROOM
SEE DRAWING E 4_1 FOR CONTINUATION
ATS-ELEV
ATS-MP
ATS-LP
12B — 8B
SERVICE SWITCHBOARD "H-MSB-1" 3000A 277/480V, 3PH, 4W, 65KAIC
3000A — GF — SPD — SM — 225A — 800A — 400A — 350A — 70A
PV SYSTEM DISCONNECT 800A-3P NONFUSED DISCONNECT — 16A — 23B
XFMR-HP 225KVA 480V DELTA 120/208V WYE
NL-HP-DP 800A 120/208V 3PH,4W — NL-RP-1-1 150A 120/208V 3PH,4W — NL-RP-1-2 150A 120/208V 3PH,4W — NL-RP-1-3 150A 120/208V 3PH,4W — NL-LP-1 150A 120/208V 3PH,4W
9B — 9B — 9B — 9B
NH-MP-1 400A 277/480V 3PH,4W — 10A — 17B
XFMR-MP 112.5KVA 480V DELTA 120/208V WYE
NL-MP-1-1 400A 120/208V 3PH,4W — NL-MP-1-2 400A 120/208V 3PH,4W — 17B
SERVICE SWITCHBOARD "L-MSB-E" 4000A 120/208V, 3PH, 4W 100 KAIC — 4000A 3P — SPD
SERVICE SWITCHBOARD "L-MSB-N" 4000A 120/208V, 3PH, 4W 100 KAIC — 4000A 3P — SPD
SERVICE SWITCHBOARD "L-MSB-W" 4000A 120/208V, 3PH, 4W 100 KAIC — 4000A 3P — SPD
RETAIL METER BANK 800A, 120/208V 3PH, 4W — 800A 3P — 400A — 225A
12B — 17B — NL-RT-1 225A 120/208V 3PH,4W — NL-RT-2 400A 120/208V 3PH,4W
SEE DRAWING E 4_1 FOR CONTINUATION

PAD MOUNTED COMED 4-BAY DEADFRONT SWITCHGEAR
PAD MOUNTED COMED 4-BAY DEADFRONT SWITCHGEAR
PAD MOUNTED COMED XFMR 120/208V SEC
PAD MOUNTED COMED XFMR 120/208V SEC
PAD MOUNTED COMED XFMR 120/208V SEC
PAD MOUNTED COMED XFMR 277/480V SEC

5" EMPTY PVC SCHEDULE 40 UNDERGROUND CONCRETE ENCASED CONDUITS TO PROPERTY LINE (CABLING PROVIDED BY COMED)
(2) 5" EMPTY PVC SCHEDULE 40 UNDERGROUND CONCRETE ENCASED CONDUITS (CABLING PROVIDED BY COMED)
(8) SETS 4 #500 KCMIL CU IN 3-1/2" CONDUITS (CONCRETE ENCASED)
(10) SETS 4 #600 KCMIL CU IN 4" CONDUIT (CONCRETE ENCASED)
(10) SETS 4 #600 KCMIL CU IN 4" CONDUIT (CONCRETE ENCASED)
(10) SETS 4 #600 KCMIL CU IN 4" CONDUIT (CONCRETE ENCASED)
(2) SETS 4 #600 KCMIL CU IN 3 1/2" CONDUIT (CONCRETE ENCASED)
4 #350 KCMIL CU IN 3" CONDUIT (CONCRETE ENCASED) TO FIRE PUMP CONTROLLER

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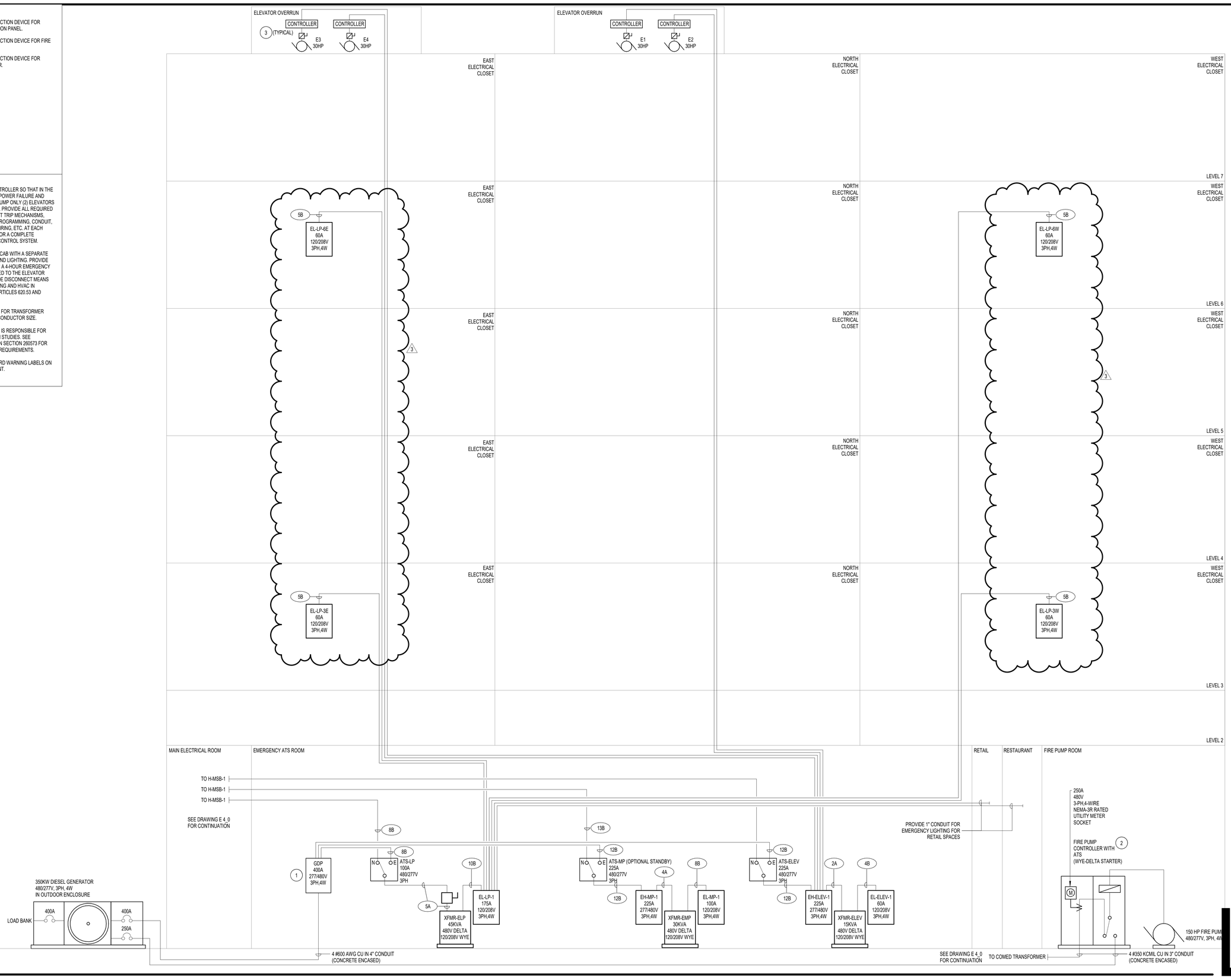
SHEET NOTES

1. PROVIDE SURGE PROTECTION DEVICE FOR GENERATOR DISTRIBUTION PANEL.
2. PROVIDE SURGE PROTECTION DEVICE FOR FIRE PUMP CONTROLLER.
3. PROVIDE SURGE PROTECTION DEVICE FOR ELEVATOR CONTROLLER.

GENERAL NOTES

1. PROGRAM ELEVATOR CONTROLLER SO THAT IN THE EVENT OF A COMMERCIAL POWER FAILURE AND ACTIVATION OF THE FIRE PUMP ONLY (2) ELEVATORS SHALL OPERATE AT A TIME. PROVIDE ALL REQUIRED CONTROL MODULES, SHUNT TRIP MECHANISMS, HARDWARE, SOFTWARE, PROGRAMMING, CONDUIT, LINE AND LOW VOLTAGE WIRING, ETC. AT EACH ELEVATOR CONTROLLER FOR A COMPLETE OPERATIONAL ELEVATOR CONTROL SYSTEM.
2. PROVIDE EACH ELEVATOR CAB WITH A SEPARATE CIRCUIT FOR EACH HVAC AND LIGHTING. PROVIDE EACH ELEVATOR CAB WITH A 4-HOUR EMERGENCY BATTERY PACK, CONNECTED TO THE ELEVATOR LIGHTING CIRCUIT. PROVIDE DISCONNECT MEANS FOR ELEVATOR CAB LIGHTING AND HVAC IN ACCORDANCE WITH NEC ARTICLES 620.53 AND 620.54.
3. SEE GROUNDING DIAGRAM FOR TRANSFORMER GROUNDING ELECTRODE CONDUCTOR SIZE.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING COORDINATION STUDIES. SEE ELECTRICAL SPECIFICATION SECTION 260573 FOR FURTHER DETAILS ON ALL REQUIREMENTS.
5. PROVIDE ARC FLASH HAZARD WARNING LABELS ON ALL ELECTRICAL EQUIPMENT.



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1Ø 120V - 277V BRANCH CIRCUIT SCHEDULES

TABLE G: BRANCH CIRCUITS 1Ø WITH GC "NEUTRAL" & WITH GRD EGC				TABLE H: BRANCH CIRCUITS 1Ø GC "NEUTRAL & ISO GRD IG & GRD EGC			
CKT AMPS	PWR TAG	STR Cu THWN-2 AWG - Kcmil	COND SIZE	PWR TAG	STR Cu THWN-2 AWG - Kcmil	COND SIZE
20	1G	2 #12 & 1 #12 EGC	3/4"	1H	2 #12 & 2 #12 IG & EGC	3/4"
30	2G	2 #10 & 1 #10 EGC	3/4"	2H	2 #10 & 2 #10 IG & EGC	3/4"
40	3G	2 #8 & 1 #10 EGC	1"	3H	2 #8 & 2 #8 IG & EGC	1"
55	4G	2 #6 & #10 EGC	1"	4H	2 #6 & 2 #6 IG & EGC	1"
70	5G	2 #4 & 1 #8 EGC	1"	5H	2 #4 & 2 #4 IG & EGC	1"
85	6G	2 #3 & #8 EGC	1.5"	6H	2 #3 & 2 #3 IG & EGC	1.5"
95	7G	2 #2 & 1 #8 EGC	1.5"	7H	2 #2 & 2 #2 IG & EGC	1.5"
130	8G	2 #1 & 1 #6 EGC	1.5"	8H	2 #1 & 2 #1 IG & EGC	1.5"
150	9G	2 #1/O & 1 #6 EGC	2"	9H	2 #1/O & 2 #1/O IG & EGC	2"
175	10G	2 #2/O & 1 #6 EGC	2"	10H	2 #2/O & 2 #2/O IG & EGC	2"
200	11G	2 #3/O & 1 #6 EGC	2"	11H	2 #3/O & 2 #3/O IG & EGC	2"
230	12G	4 #4/O & 1 #4 EGC	2.5"	12H	NA	NA
255	13G	4 #250 & 1 #4 EGC	2.5"	13H	NA	NA
310	14G	4 #350 & 1 #4 EGC	3"	14H	NA	NA
335	15G	4 #400 & 1 #4 EGC	3"	15H	NA	NA
380	16G	4 #500 & 1 #3 EGC	4"	16H	NA	NA

THREE PHASE (Ø) AND SINGLE PHASE (Ø) POWER FEEDERS - BRANCH CIRCUITS - SERVICE ENTRANCE SCHEDULE UPTO 3,000A

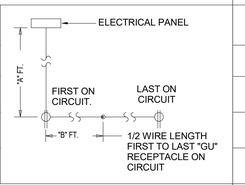
TABLE A: FEEDER-BRANCH CIRCUITS 3Ø 3W NO GC "NEUTRAL" AND WITH "GROUND" EGC				TABLE B: FEEDER-BRANCH CIRCUITS 3Ø 4W WITH GC "NEUTRAL" & "GROUND" EGC			TABLE C: FEEDER-BRANCH CIRCUITS 1Ø 2W NO GC "NEUTRAL" AND WITH GRD EGC			TABLE D: FEEDER-BRANCH CIRCUITS 1Ø 3W WITH GC "NEUTRAL" AND WITH GRD EGC			TABLE N: SERVICE ENTRANCE 3Ø 4W WITH GC "NEUTRAL"		
CKT AMPS	PWR TAG	STR Cu THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE	PWR TAG	STR Cu THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE	PWR TAG	STR Cu THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE	PWR TAG	STR Cu THWN-2 OR XHHW-2 AWG - Kcmil	COND SIZE	PWR TAG	STR Cu XHHW-2 AWG - Kcmil	COND SIZE
20	1A	3 #12 & 1 #12 EGC	3/4"	1B	4 #12 & 1 #12 EGC	3/4"	1C	2 #12 & 1 #12 EGC	3/4"	1D	3 #12 & 1 #12 EGC	3/4"	1N	NA	NA
30	2A	3 #10 & 1 #10 EGC	3/4"	2B	4 #10 & 1#10 EGC	3/4"	2C	2 #10 & 1 #10 EGC	3/4"	2D	3 #10 & 1#10 EGC	3/4"	2N	NA	NA
40	3A	3 #8 & 1 #8 EGC	3/4"	3B	4 #8 & 1 #8 EGC	3/4"	3C	2 #8 & 1 #8 EGC	3/4"	3D	3 #8 & 1 #8 EGC	3/4"	3N	NA	NA
55	4A	3 #6 & 1 #8 EGC	3/4"	4B	4 #6 & 1 #8 EGC	1"	4C	2 #6 & 1 #8 EGC	3/4"	4D	3 #6 & 1 #8 EGC	1"	4N	NA	NA
70	5A	3 #4 & 1 #6 EGC	1"	5B	4 #4 & 1 #8 EGC	1.5"	5C	2 #4 & 1 #8 EGC	1"	5D	3 #4 & 1 #6 EGC	1"	5N	NA	NA
85	6A	3 #3 & 1 #6 EGC	1"	6B	4 #3 & 1 #8 EGC	1.5"	6C	2 #3 & 1 #8 EGC	1"	6D	3 #3 & 1 #8 EGC	1.5"	6N	4 #3	1.5"
95	7A	3 #2 & 1 #6 EGC	1"	7B	4 #2 & 1 #8 EGC	1.5"	7C	2 #2 & 1 #6 EGC	1.5"	7D	3 #2 & 1 #6 EGC	1.5"	7N	4 #2	1.5"
130	8A	3 #1 & 1 #6 EGC	1.5"	8B	4 #1 & 1 #6 EGC	1.5"	8C	2 #1 & 1 #6 EGC	1.5"	8D	3 #1 & 1 #6 EGC	1.5"	8N	4 #1	1.5"
150	9A	3 #1/O & 1 #6 EGC	1.5"	9B	4 #1/O & 1 #6 EGC	2"	9C	2 #1/O & 1 #6 EGC	1.5"	9D	3 #1/O & 1 #6 EGC	1.5"	9N	4 #1/O	2"
175	10A	3 #2/O & 1 #4 EGC	1.5"	10B	4 #2/O & 1 #4 EGC	2"	10C	2 #2/O & 1 #6 EGC	1.5"	10D	3 #2/O & 1 #6 EGC	2"	10N	4 #2/O	2"
200	11A	3 #3/O & 1 #4 EGC	1.5"	11B	4 #3/O & 1 #6 EGC	2"	11C	#2/O & 1 #6 EGC	1.5"	11D	3 #3/O & 1 #6 EGC	2"	11N	4 #3/O	2"
230	12A	3 #4/O & 1 #4 EGC	2"	12B	4 #4/O & 1 #4 EGC	2.5"	12C	2 #4/O & 1 #4 EGC	2"	12D	3 #4/O & 1 #4 EGC	2"	12N	4 #4/O	2.5"
255	13A	3 #250 & 1 #4 EGC	2.5"	13B	4 #250 & 1 #4 EGC	2.5"	13C	2 #250 & 1 #4 EGC	2"	13D	3 #250 & 1 #4 EGC	2.5"	13N	4 #250	2.5"
310	14A	3 #350 & 1 #4 EGC	3"	14B	4 #350 & 1 #4 EGC	3"	14C	2 #250 & 1 #4 EGC	2.5"	14D	3 #350 & 1 #4 EGC	2.5"	14N	4 #350	3"
335	15A	3 #400 & 1 #3 EGC	3"	15B	4 #400 & 1 #4 EGC	3"	15C	2 #400 & 1 #3 EGC	3"	15D	3 #400 & 1 #4 EGC	3"	15N	4 #400	3"
380	16A	3 #500 & 1 #3 EGC	3.5"	16B	4 #500 & 1 #3 EGC	4"	16C	2 #500 & 1 #3 EGC	3"	16D	3 #500 & 1 #3 EGC	3.5"	16N	4 #500	3.5"
420	17A	3 #600 & 1 #3 EGC	4"	17B	4 #600 & 1 #1/O EGC	4"	17C	2 #600 & 1 #3 EGC	4"	17D	3 #600 & 1 #3 EGC	4"	17N	4 #600	4"
460	18A	2 Sets 3 #4/O & 1 #2 EGC	2" EA	18B	2 Sets 4 #4/O & 1 #2 EGC	2.5" EA	18C	2 Sets 2 #4/O & 1 #2 EGC	2" EA	18D	2 Sets 3 #4/O & 1 #2 EGC	2" EA	18N	2 Sets 4 #4/O	2.5" EA
510	19A	2 Sets 3 #250 & 1 #2 EGC	2.5" EA	19B	2 Sets 4 #250 & 1 #2 EGC	2.5" EA	19C	2 Sets 2 #250 & 1 #2 EGC	2" EA	19D	2 Sets 3 #250 & 1 #2 EGC	2.5" EA	19N	2 Sets 4 #250	2.5" EA
620	20A	2 Sets 3 #350 & 1 #1 EGC	3" EA	20B	2 Sets 4 #350 & 1 #1 EGC	3" EA	20C	2 Sets 2 #350 & 1 #1 EGC	2.5" EA	20D	2 Sets 3 #350 & 1 #1 EGC	2.5" EA	20N	2 Sets 4 #350	3" EA
670	21A	2 Sets 3 #400 & 1 #1/O EGC	3" EA	21B	2 Sets 4 #400 & 1 #1/O EGC	3" EA	21C	2 Sets 2 #400 & 1 #1/O EGC	3" EA	21D	2 Sets 3 #400 & 1 #1/O EGC	3" EA	21N	2 Sets 4 #400	3" EA
690	22A	3 Sets 3 #4/O & 1 #1/O EGC	3" EA	22B	3 Sets 4 #4/O & 1 #1/O EGC	2.5" EA	22C	3 Sets 2 #4/O & 1 #1/O EGC	2" EA	22D	3 Sets 3 #4/O & 1 #1/O EGC	2" EA	22N	3 Sets 4 #4/O	2.5" EA
840	23A	2 Sets 3 #600 & 1 #1/O EGC	3.5" EA	23B	2 Sets 4 #600 & 1 #1/O EGC	4" EA	23C	2 Sets 2 #600 & 1 #1/O EGC	3.5" EA	23D	2 Sets 3 #600 & 1 #1/O EGC	3.5" EA	23N	2 Sets 4 #600	4" EA
1005	24A	3 Sets 3 #400 & 1 #2/O EGC	3" EA	24B	3 Sets 4 #400 & 1 #2/O EGC	3" EA	24C	3 Sets 2 #400 & 1 #2/O EGC	3" EA	24D	3 Sets 3 #400 & 1 #2/O EGC	3" EA	24N	3 Sets 4 #400	3" EA
1020	25A	4 Sets 3 #250 & 1 #2/O EGC	3" EA	25B	4 Sets 4 #250 & 1 #2/O EGC	2.5" EA	25C	4 Sets 2 #250 & 1 #2/O EGC	2" EA	25D	4 Sets 3 #250 & 1 #2/O EGC	2.5" EA	25N	4 Sets 4 #250	2.5" EA
1140	26A	3 Sets 3 #500 & 1 #3/O EGC	3" EA	26B	3 Sets 4 #500 & 1 #3/O EGC	3.5" EA	26C	3 Sets 2 #500 & 1 #3/O EGC	3" EA	26D	3 Sets 3 #500 & 1 #3/O EGC	3.5" EA	26N	3 Sets 4 #500	3.5" EA
1240	27A	4 Sets 3 #350 & 1 #3/O EGC	3" EA	27B	4 Sets 4 #350 & 1 #4/O EGC	3" EA	27C	4 Sets 2 #350 & 1 #3/O EGC	2.5" EA	27D	4 Sets 3 #350 & 1 #4/O EGC	2.5" EA	27N	4 Sets 4 #350	3" EA
1340	28A	4 Sets 3 #400 & 1 #4/O EGC	3" EA	28B	4 Sets 4 #400 & 1 #4/O EGC	3" EA	28C	4 Sets 2 #400 & 1 #4/O EGC	3" EA	28D	4 Sets 3 #400 & 1 #4/O EGC	3" EA	28N	4 Sets 4 #400	3" EA
1550	29A	5 Sets 3 #350 & 1 #4/O EGC	3" EA	29B	5 Sets 4 #350 & 1 #4/O EGC	3" EA	29C	5 Sets 2 #350 & 1 #4/O EGC	2.5" EA	29D	5 Sets 3 #350 & 1 #4/O EGC	2.5" EA	29N	5 Sets 4 #350	3" EA
1675	30A	5 Sets 3 #400 & 1 #4/O EGC	3" EA	30B	5 Sets 4 #400 & 1 #4/O EGC	3" EA	30C	5 Sets 2 #400 & 1 #4/O EGC	3" EA	30D	5 Sets 3 #400 & 1 #4/O EGC	3" EA	30N	5 Sets 4 #400	3" EA
1860	31A	6 Sets 3 #350 & 1 #250 EGC	3" EA	31B	6 Sets 4 #350 & 1 #250 EGC	3" EA	31C	6 Sets 2 #350 & 1 #250 EGC	2.5" EA	31D	6 Sets 3 #350 & 1 #250 EGC	2.5" EA	31N	6 Sets 4 #350	3" EA
1900	32A	5 Sets 3 #500 & 1 #250 EGC	3" EA	32B	5 Sets 4 #500 & 1 #250 EGC	3.5" EA	32C	5 Sets 2 #500 & 1 #250 EGC	3" EA	32D	5 Sets 3 #500 & 1 #250 EGC	3.5" EA	32N	5 Sets 4 #500	3.5" EA
2010	33A	6 Sets 3 #400 & 1 #250 EGC	3" EA	33B	6 Sets 4 #400 & 1 #250 EGC	3" EA	33C	6 Sets 2 #400 & 1 #250 EGC	3" EA	33D	6 Sets 3 #400 & 1 #250 EGC	3" EA	33N	6 Sets 4 #400	3" EA
2170	34A	7 Sets 3 #350 & 1 #250 EGC	3" EA	34B	7 Sets 4 #350 & 1 #250 EGC	3" EA	34C	7 Sets 2 #350 & 1 #250 EGC	2.5" EA	34D	7 Sets 3 #350 & 1 #250 EGC	2.5" EA	34N	7 Sets 4 #350	3" EA
2280	35A	6 Sets 3 #500 & 1 #350 EGC	3" EA	35B	6 Sets 4 #500 & 1 #450 EGC	3.5" EA	35C	6 Sets 2 #500 & 1 #350 EGC	3" EA	35D	6 Sets 3 #500 & 1 #450 EGC	3.5" EA	35N	6 Sets 4 #500	3.5" EA
2660	36A	7 Sets 3 #500 & 1 #350 EGC	3" EA	36B	7 Sets 4 #500 & 1 #450 EGC	3.5" EA	36C	7 Sets 2 #500 & 1 #350 EGC	3" EA	36D	7 Sets 3 #500 & 1 #450 EGC	3.5" EA	36N	7 Sets 4 #500	3.5" EA
3040	37A	8 Sets 3 #500 & 1 #400 EGC	3.5" EA	37B	8 Sets 4 #500 & 1 #400 EGC	4" EA	37C	8 Sets 2 #500 & 1 #400 EGC	3" EA	37D	8 Sets 3 #500 & 1 #400 EGC	3.5" EA	37N	8 Sets 4 #500	3.5" EA

RECEPTACLE/LIGHTING BRANCH WIRE SIZING SCHEDULE

TABLES ARE BASED ON EVENLY DISTRIBUTIED LOAD ALLOWING A 3% VOLTAGE AT LAST OUTLET (APPLY ACCORDINGLY)

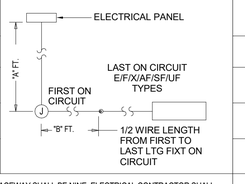
FOR 120V-20A BRANCH TYPE "GU" GENERAL USE RECEPTACLES CIRCUITS ONLY

IF DISTANCE (A+B) IN FT IS: (SEE DIAGRAM AT RIGHT)	BRANCH CONDUIT & WIRE SCHEDULE TAG
0' TO 100'	1G
100' TO 175'	2G
175' TO 300'	3G
300' TO 450'	4G



FOR 277V-20A OR 120V-20A LIGHTING BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)

IF DISTANCE (A+B) IN FT IS: (SEE DIAGRAM AT RIGHT)	BRANCH CONDUIT & WIRE SCHEDULE TAG
0' TO 100'	1G
100' TO 175'	2G
175' TO 300'	3G
300' TO 450'	4G



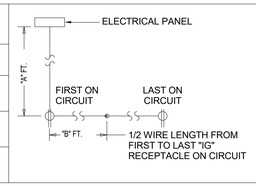
NOTE: MAXIMUM CURRENT CARRYING CONDUCTORS PER RACEWAY SHALL BE NINE. ELECTRICAL CONTRACTOR SHALL INCREASE CONDUIT AND BRANCH CIRCUIT WIRE SIZE AS REQUIRED PER AHJ CODES PER NUMBER OF CONDUCTORS IN A RACEWAY AND AMBIENT TEMPERATURE ABOVE 30°C SURROUNDING THE RACEWAY.

RECEPTACLE/FRACTIONAL MOTOR BRANCH WIRE SIZING SCHEDULE

TABLES ARE BASED ON EVENLY DISTRIBUTIED LOAD ALLOWING A 3% VOLTAGE AT LAST OUTLET (APPLY ACCORDINGLY)

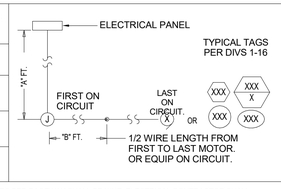
FOR 120V-20A BRANCH RECEPTACLES IG INDIVIDUAL DEDICATED (NON-SHARED) NEUTRAL CIRCUITS ONLY

IF DISTANCE (A+B) IN FT IS: (SEE DIAGRAM AT RIGHT)	BRANCH CONDUIT & WIRE SCHEDULE TAG
0' TO 100'	1H
100' TO 175'	2H
175' TO 300'	3H
300' TO 450'	4H



277V-20A & 120V-20A MOTOR BRANCH CIRCUITS SEE DRWGS FOR MECHANICAL EQUIP DIV 13 & 15 ARCH BLDG EQUIP DIVS 1-12 & 14 & OWNER PURCHASED BLDG EQUIP SCHEDULES

IF DISTANCE (A+B) IN FT IS: (SEE DIAGRAM AT RIGHT)	BRANCH CONDUIT & WIRE SCHEDULE TAG
0' TO 100'	1G
100' TO 175'	2G
175' TO 300'	3G
300' TO 450'	4G



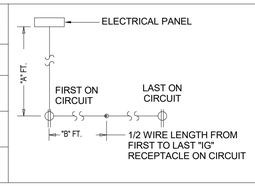
NOTE: MAXIMUM CURRENT CARRYING CONDUCTORS PER RACEWAY SHALL BE NINE. ELECTRICAL CONTRACTOR SHALL INCREASE CONDUIT AND BRANCH CIRCUIT WIRE SIZE AS REQUIRED PER AHJ CODES PER NUMBER OF CONDUCTORS IN A RACEWAY AND AMBIENT TEMPERATURE ABOVE 30°C SURROUNDING THE RACEWAY.

RECEPT/UL LISTED EQUIPMENT BRANCH WIRE SIZING SCHEDULE

TABLES ARE BASED ON EVENLY DISTRIBUTIED LOAD ALLOWING A 3% VOLTAGE AT LAST OUTLET (APPLY ACCORDINGLY)

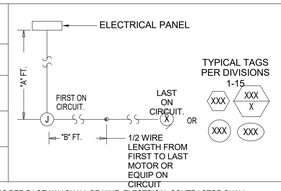
FOR 120V-20A BRANCH TYPE "CR" COMPUTER USE RECEPTACLES DEDICATED (NON-SHARED) NEUTRAL CIRCUITS ONLY

IF DISTANCE (A+B) IN FT IS: (SEE DIAGRAM AT RIGHT)	BRANCH CONDUIT & WIRE SCHEDULE TAG
0' TO 100'	1H
100' TO 175'	2H
175' TO 300'	3H
300' TO 450'	4H



277V-20A & 120V-20A MOTOR BRANCH CIRCUITS SEE DRWGS FOR MECHANICAL EQUIP DIV 13 & 15 ARCH BLDG EQUIP DIVS 1-12 & 14 & OWNER PURCHASED BLDG EQUIP SCHEDULES

IF DISTANCE (A+B) IN FT IS: (SEE DIAGRAM AT RIGHT)	BRANCH CONDUIT & WIRE SCHEDULE TAG
0' TO 100'	1G
100' TO 175'	2G
175' TO 300'	3G
300' TO 450'	4G



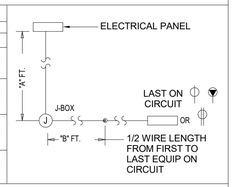
NOTE: MAXIMUM CURRENT CARRYING CONDUCTORS PER RACEWAY SHALL BE NINE. ELECTRICAL CONTRACTOR SHALL INCREASE CONDUIT AND BRANCH CIRCUIT WIRE SIZE AS REQUIRED PER AHJ CODES PER NUMBER OF CONDUCTORS IN A RACEWAY AND AMBIENT TEMPERATURE ABOVE 30°C SURROUNDING THE RACEWAY.

REC/HARD WIRED SYSTEMS EQUIP BRANCH WIRE SIZING SCHEDULE

TABLES ARE BASED ON EVENLY DISTRIBUTIED LOAD ALLOWING A 3% VOLTAGE AT LAST OUTLET (APPLY ACCORDINGLY)

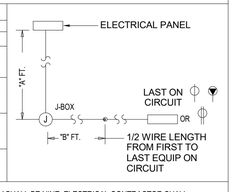
FOR 120V-20A-30A / 208V 1PH-20A-30A SYSTEMS EQUIPMENT HWC/CPC BRANCH CIRCUITS ONLY SEE SCHEDULE DRAWINGS SYSTEMS EQUIPMENT DIVISION 16 SCHEDULE

IF DISTANCE (A+B) IN FT IS: (SEE DIAGRAM AT RIGHT)	BRANCH CONDUIT & WIRE SCHEDULE			
	120V		208V 1PH	
	20A	30A	20A	30A
0' TO 100'	1G	2G	1D	2D
100' TO 175'	2G	3G	2D	3D
175' TO 300'	3G	4G	3D	4D
300' TO 450'	4G	5G	4D	5D



FOR 120V-20A-30A / 208V 1PH-20A-30A SYSTEMS EQUIPMENT HWC/CPC BRANCH CIRCUITS ONLY SEE SCHEDULE DRAWINGS SYSTEMS EQUIPMENT DIVISION 16 SCHEDULE

IF DISTANCE (A+B) IN FT IS: (SEE DIAGRAM AT RIGHT)	BRANCH CONDUIT & WIRE SCHEDULE			
	120V		208V 1PH	
	20A	30A	20A	30A
0' TO 100'	1G	2G	1D	2D
100' TO 175'	2G	3G	2D	3D
175' TO 300'	3G	4G	3D	4D
300' TO 450'	4G	5G	4D	5D



NOTE: MAXIMUM CURRENT CARRYING CONDUCTORS PER RACEWAY SHALL BE NINE. ELECTRICAL CONTRACTOR SHALL INCREASE CONDUIT AND BRANCH CIRCUIT WIRE SIZE AS REQUIRED PER AHJ CODES PER NUMBER OF CONDUCTORS IN A RACEWAY AND AMBIENT TEMPERATURE ABOVE 30°C SURROUNDING THE RACEWAY.

3 **ELECTRICAL VOLTAGE DROP SCHEDULE**
NTS

REVISION DATE
ISSUE FOR PERMIT 04.05.2021
PERMIT REVISION 06.30.2021
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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

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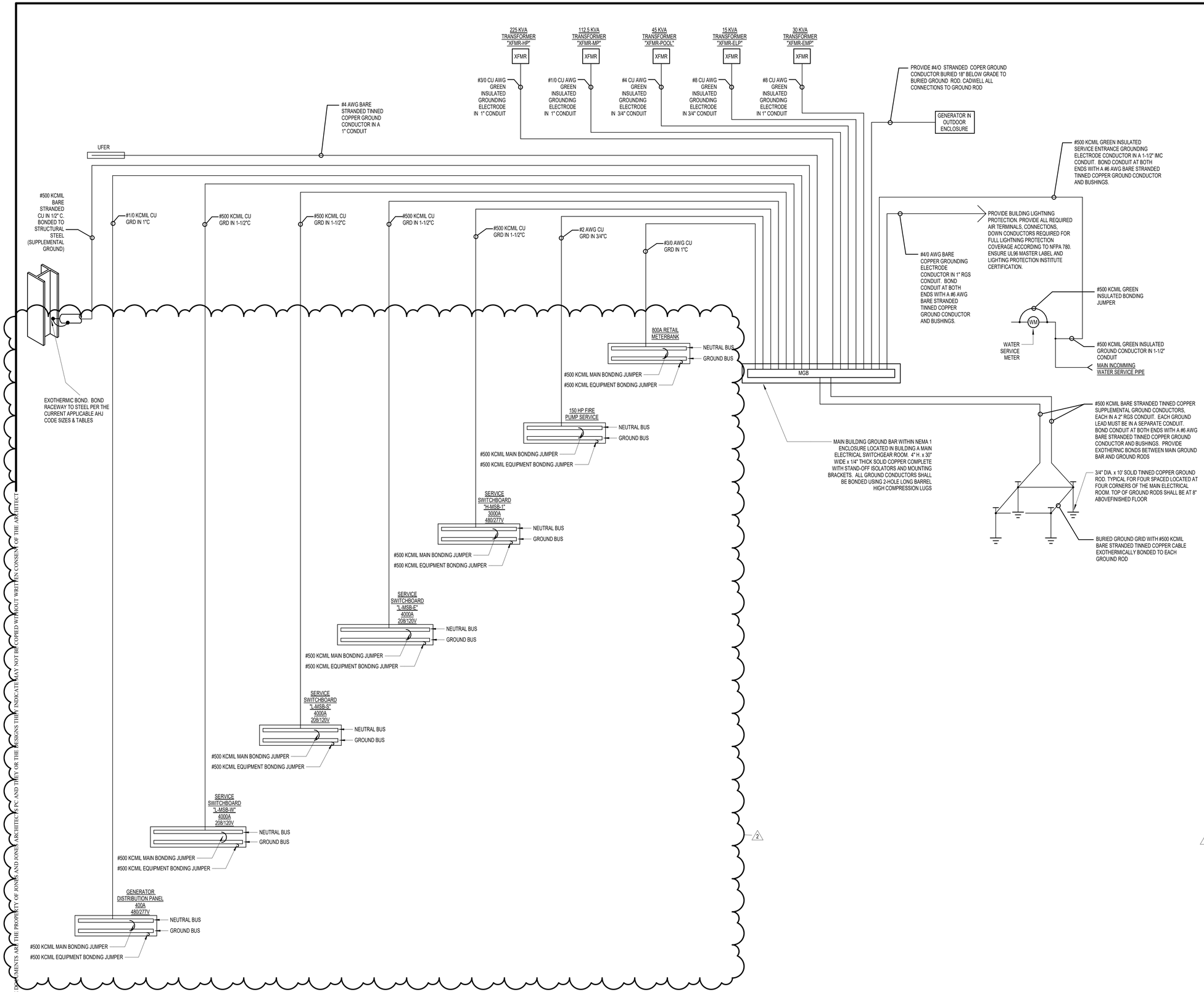

GENERAL NOTES

1. TWO-HOLE LONG BARREL (DOUBLE INDENT) BOLTED-TYPE HYDRAULIC COPPER COMPRESSION CONNECTORS SHALL BE USED FOR CONDUCTORS LARGER THAN #8 AWG. ALL COMPRESSION CONNECTORS FOR CABLE SIZES #1/0 AWG AND LARGER SHALL EMPLOY HEX OR CIRCUMFERENTIAL TYPE CRIMPS, AND SHALL HAVE AN INSPECTION HOLE BETWEEN THE TONGUE AND BARREL. THE CABLE SHALL BE COMPLETELY INSERTED INTO THE CONNECTOR BEFORE THE CRIMPS ARE MADE. CONNECTORS SHALL BE AS MANUFACTURED BY BURNDY, TYPE YA "HYLUG", AND ONLY ON STRANDED WIRE. ALL SOLID WIRE GROUND CONNECTIONS MUST BE EXOTHERMICALLY WELDED OR, IF RUN IN THE INTERIOR, SOLDERED.
2. USE HYDRAULIC COPPER COMPRESSION H-TAP CONNECTORS AS MANUFACTURED BY BURNDY, TYPE YH "H COPPER CRIMPIT". PROVIDE FLAME RETARDANT INSULATING COVERS. PROVIDE THOMAS AND BETTS HARD COVER TYPE "HTC".
3. ALL COMPRESSION AND MECHANICAL CONNECTIONS SHALL BE COATED WITH THE CORROSION PREVENTATIVE COMPOUND NO-OX-ID "A", AS MANUFACTURED BY DEARBORN CHEMICAL COMPANY.
4. ALL GROUND CONDUCTORS SHALL BE COPPER WITH GREEN (COLOR) INSULATION. GREEN-INSULATED GROUND WIRE FOR ALL SIZES IS AVAILABLE THROUGH QUAD CABLCON (TROY, MI (800) 969-9220) OR RELTEC SERVICES (800-927-2780). GROUND CONDUCTORS LARGER THAN #1 SWG SHALL BE TYPE RHH/RHW (BRAIDED-CLOTH JACKET, SYNTHETIC RUBBER INSULATION).
5. ALL GROUNDING CONDUCTORS SHALL BE IN GREEN METALLIC CONDUIT, UNLESS OTHERWISE NOTED. GROUND CONDUCTORS SHALL NOT BE RUN CONCEALED IN SLABS, COLUMNS, OR WALLS. USE RIGID GALVANIZED STEEL CONDUIT SLEEVES WHERE GROUND CONDUCTORS PENETRATE WALLS OR FLOOR SLABS.
6. METALLIC STRAPS SHALL BE USED TO SECURE GROUND CONDUCTOR CONDUITS EVERY 18" HORIZONTALLY AND EVERY 9" VERTICALLY TO THE BUILDING COLUMNS OR WALLS. IF METALLIC STRAPS ARE USED, THEY SHALL BE OF THE TYPE WHICH DO NOT COMPLETELY ENCIRCLE THE CONDUCTOR. PLASTIC "CLIC" CONNECTORS BY LITCHFIELD INTERNATIONAL COMPANY (800-345-CLIC) ARE ACCEPTABLE FOR USE AS CONDUIT AND CONDUCTOR SUPPORTS. DO NOT USE CONDUIT, CABLE TRAY, MECHANICAL DUCT, OR PLASTIC TIE WRAPS TO SECURE GROUND CONDUCTORS.
7. THE MINIMUM BEND RADII ON GROUND CONDUCTORS SHALL BE AS FOLLOWS:
   #12 - #6 6"
   #4 - #4/0 12"
   #250 - #750 KCMIL 24"
8. PACK OPENINGS AROUND GROUND CONDUCTOR ENETRATIONS OF FLOOR SLABS OR WALLS WITH FIRE RETARDANT MATERIAL. APPROVED FIRE RETARDANT MATERIAL SHALL BE HILTI FIRE BARRIER CAULK (NO SUBSTITUTIONS).
9. TAG ALL GROUND CONDUCTOR TERMINATIONS AT GROUND BAR WITH GRAY OVAL FIBER "FAR-END DESTINATION" 145P TAGS AS MANUFACTURED BY ONE OF THE FOLLOWING:

   A. ANIXTER (BLOOMINGTON, ILLINOIS) TEL. #309/662-5162 OR 800/ANIXTER PART #847755246

   B. MARCONI (OHIO) TEL. # 800/927-2780 PART #84775524 GROUND SERVICES MAY BE STAMPED, ENGRAVED, OR LEGIBLY/NEATLY HANDWRITTEN ON FIBER TAG. AT GROUND BAR TERMINATIONS ALSO PROVIDE ENGRAVED BRASS "DO NOT DISCONNECT" TAGS MANUFACTURED BY.

   C. ANIXTER (MANUFACTURED BY FLEXTRONICS AND SOLD BY ANIXTER) PART # P0411719

   D. GUS BERTHOLD ELECTRIC COMPANY (CHICAGO, ILLINOIS) TEL. # 312/243-5767 (BLANK TAGS PURCHASED BY GBE CO. AND STAMPED)
10. ALL TAGS AT GROUND BAR TERMINATIONS SHALL BE SECURED WITH 9-PLY OR 12-PLY TWINE/CORD MANUFACTURED BY ANIXTER. TIE WRAPS SHALL NOT BE USED. 9-PLY PART # 095017, 12-PLY PART # 224758.
11. THE MAIN BUILDING GROUND BAR (MGB) SHALL BE THE EXTENSION OF THE BUILDING GROUNDING SYSTEM AND SHALL SERVE AS THE MAIN POINT OF BONDING WITHIN THE FACILITY AND SHALL COMPLY WITH APPLICABLE BUILDING CODE. THE MGB SHALL BE THE COMMON GROUND POINT TO WHICH ALL GROUND POINTS FOR THE FACILITY ARE BONDED.
12. THE ROUTE OF THE BONDING CONDUCTORS FROM THE MGB TO THE FACILITY GROUND RING SHALL BE AS SHORT AND STRAIGHT AS PRACTICALLY POSSIBLE.
13. THE MGB WILL SHALL BE CONFIGURED TO MAINTAIN PEPARATION BETWEEN SURGE PRODUCERS, ABSORBERS, NON-ISOLATED AND ISOLATED GROUNDS. THE MGB SHALL BE PERMANENTLY AND APPROPRIATELY LABELED AND IDENTIFY WITH "P", "A", "N", AND "I" SECTIONS OF THE MGB.
14. BONDING CONDUCTORS BETWEEN THE MGB AND OTHER ANCILLARY GROUND BARS OR EQUIPMENT BAYS SHALL RUN IN THE STRAIGHTEST ROUTE MINIMIZING THE TOTAL LENGTH OF THE CONDUCTOR.
15. ALL GROUNDING SYSTEM CABLE RUNS THAT ARE ROUTED THROUGH WALLS, CEILINGS OR FLOORS SHALL BE PROTECTED BY METALLIC CONDUITS OR SLEEVES.
16. CONNECTIONS TO THE BURIED DELTA GROUND RING SHALL BE EXOTHERMICALLY WELDED BY TECHNICIANS CERTIFIED ON THE PROCESS. CONNECTIONS OTHER THAN EXOTHERMIC WELD SHALL BE LOCATED SO AS TO FACILITATE PERIODIC INSPECTION AND MAINTENANCE.
17. ALL BURIED CONNECTIONS SHALL BE EXOTHERMIC WELDS. ALL EXPOSED MECHANICAL AND/OR HIGH COMPRESSION CONNECTIONS SHALL BE TREATED WITH A PROTECTIVE, ANTI-OXIDANT COATING. ALL EXOTHERMIC WELDS TO GALVANIZING SURFACES SHALL BE SPRAYED WITH GALVANIZING PAINT.
18. ALL GROUNDING SYSTEM CONDUIT RACEWAYS SHALL BE FACTORY PAINTED GREEN UNLESS OTHERWISE NOTED.
19. PROVIDE CONCRETE ENCASED GROUNDING ELECTRODE TO BUILDING FOOTING AND CONNECT TO MAIN GROUND BAR IN MAIN ELECTRICAL ROOM. COORDINATE WORK WITH INSTALLATION OF THE FOOTINGS.
20. ANY CIRCUIT CONDUCTORS WHICH ARE SPLICED IN JUNCTION BOX SHALL BE BONDED TO THE BOX IN ACCORDANCE WITH NEC ARTICLE 250.148.
21. ALL WATER HEATERS SHALL BE JUMPERED BETWEEN THE COLD AND HOT WATER PIPES WITH JUMPER SIZED ACCORDING TO NEC TABLE 250.166.

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REVISION DATE
ISSUE FOR PERMIT 04.05.2021
PERMIT REVISION 06.30.2021
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ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E4.3

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EQUIPMENT SCHEDULE

STEP 1 CONFIRM FINAL LOCATION OF EQUIP. WITH THE MECH. DRAWINGS & OEM'S SHOPS PRIOR TO INSTALLING CONDUIT. SEE PWR. DWGS. FOR EQUIP. TAG LOCATIONS

STEP 2 REVIEW ARCH, KIT, MECH, PLBG, FIRE PROT. SUBMITTALS-SHOP DRAWINGS. FINAL EQUIP. LOCATION, ELEVATION, & PWR. REQUIREMENTS PRIOR TO INSTALLING CONDUIT.

STEP 3 CONFIRM LOAD REQUIREMENTS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT SEE SCHDLE DWGS. FOR PANELBOARD FEEDER-BRANCH CIRCUIT NUMBERS.

STEP 4 CONFIRM IN THE FIELD PNLBD-SWBD RATINGS WITH MECH'S OEM PRIOR TO INSTALLING CONDUITS. SEE PWR. DWGS. FOR PNLBD-SWBD LOCATIONS.

STEP 5 CONFIRM IN THE FIELD OCPD REQUIREMENTS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. OCPD RATINGS DERIVED FROM MECH'S OEM'S SPECS OR MOTOR SIZING PER CODE.

STEP 6 CONFIRM IN THE FIELD FEEDER-BRANCH CIRCUIT SIZING WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT.

STEP 7 SEE FEEDER-BRANCH CIRCUIT SCHEDULE FOR TAG-WIRE SIZE.

STEP 8 CONFIRM IN THE FIELD CONTACTOR-STARTER-VFC-PRMS-DS SW RATINGS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. ALL FULL VOLTAGE MAGNETIC STARTERS SHALL BE PROVIDED WITH HAND-OFF-AUTO SELECTOR SWITCH AND PILOT LIGHTS.

STEP 9 CONFIRM IN THE FIELD THERMAL OVERLOAD RATINGS WITH OEM PROVIDE OVERLOADS PER OEM SPECS.

STEP 10 CONFIRM IN THE FIELD WITH OEM PRIOR TO INSTALLING CONDUIT LOCATE DISC SW SWITCH WITHIN 5FT & WITHIN SIGHT OF THE MOTOR-LISTED EQUIPMENT.

STEP 11 PROVIDE CONN. TO MOTOR-LISTED EQUIP PROVIDE A Cu EQUIP GROUND (EGC) FROM DISC SW SWITCH TO MOTOR ELECT.-EQUIP CONNECTION POINT-JUNCTION BOX.

FVNR	FULL VOLT NON-REVERSING MAGNETIC STARTER WITH HAND-OFF-AUTO SELECTOR SWITCH AND PILOT LIGHTS
FVR	FULL VOLT REVERSING MAGNETIC STARTER
VFC	VARIABLE FREQUENCY CONTROLLER
PRMS	PWR RELAY-MANUAL STARTER W- OVERLOADS
2SP1W	TWO-SPEED SINGLE WINDING FVNR MAG STRTR
2SP2W	TWO-SPEED TWO WINDING FVNR MAG STRTR
CPT	CONTROL POWER TRANSFORMER
IMUC	INTERNAL MOUNTED UNIT CONTROLLER
RMUC	REMOTE MOUNTED UNIT CONTROLLER

PR	POWER RELAY	EM	EMERGENCY POWER	FPC	FIRE PROTECTION CONTRACTOR
TC	TIME CLOCK CNTRLER	NML	NORMAL POWER	OWN	OWNER
T-S	TEMP-SENSOR SW	SBY	STANDBY POWER	CPC	CORD-PLUG CONNECTION
W-STAT	WALL LINE VOLT STAT	NA	NOT APPLICABLE	FWC	FLEXIBLE-WHIP CONDUIT
WS	WALL LINE VOLT SW	BRNCH	BRANCH CIRCUIT	HWC	HARD WIRED CONN
FB	FURNISHED BY	GC	GENERAL CONTRACTOR	ENC	NEMA ENCLOSURE
IB	INSTALLED BY	KC	KITCHEN CONTRACTOR	LOC	LOCKING
PB	PROVIDED BY	MC	MECHANICAL CONTRACTOR	REC	RECEPTACLE
FDR	FEEDER CIRCUIT	PC	PLUMBING CONTRACTOR	OCPD	OVERCURRENT PROTECT DEVICE
				OEM	ORIGINAL EQP MANUFACTURER

NOTES:

1. PROVIDE RACKING FOR STRTR TYPES (FVNR, FVR, PRMS, 2SP1W, & 2SP2W) PROVIDE THERMAL OVERLOADS PER OEM-FIELD VERIFICATION PROVIDE TWO SETS FORM "C" AUX CONTACTS WITH STARTER PROVIDE 24Vac CONTROL COIL FOR POWER RELAYS-MANUAL STRTR "PRMS"
2. PROVIDE RACKING FOR VARIABLE FEQUENCY CONTROLLER "VFC" CALIBRATE OVERLOADS PER OEM-FIELD VERIFICATION RESULTS PROVIDE FOUR SETS FORM "C" CONTACTS WITH VFC PROVIDE OEM START-UP & COMMISSIONING PRIOR TO PUNCHLIST PROVIDE WRITTEN VFC FIELD PROGRAMMED SETTINGS
3. DISC SW SHALL BE IN SIGHT OF MOTOR-EQP AND SHALL NOT EXCEED MAX DIST OF 5FT FROM MOTOR-EQUIP MAX HEIGHT OF DISCONNECT SWITCH HANDLE SHALL NOT EXCEED 6'-3" PROVIDE SIX POLE DISC SW FOR TWO SPEED AND ONE-TWO WINDING MOTORS.
4. CONFIRM MOTOR ROTATION-OPERATION WITH OEM REP PRIOR TO ENERGIZING MOTOR EQUIP. PROVIDE GROUNDING PER OEM SPECS. FLEX CONDUIT SHALL NOT EXCEED 72" MAXIMUM LENGTH.
5. PROVIDE A DEDICATED 120VAC CIRCUIT TO EACH MECHANICAL EQUIPMENT (AHU,RTU, ERV, MAU, ETC.) FOR INTERNAL FAN HOUSING LIGHTING AND RECEPTACLE DEVICE CIRCUIT.
6. CONTRACTOR MAY CONNECT MULTIPLE PIECES OF EQUIPMENT ON A SINGLE BRANCH CIRCUIT.

GENERAL NOTE:
PROVIDE A DUCT SMOKE DETECTOR COMPLETE WITH AIR SAMPLING TUBES AND REMOTE KEYED TEST STATION FOR ALL HVAC EQUIPMENT MAIN HEADER DUCTS AS FOLLOWS: RETURN HEADER DUCT RATED 2,000 CFM OR GREATER SUPPLY HEADER DUCT RATED 15,000 CFM OR GREATER. PROVIDE INTERFACE MODULES AND CONNECT TO FIRE ALARM CONTROL PANEL.

STEPS	1			2	3											4A	4B	5			6 & 7	8 & 9															10				11												12
	EQUIPMENT LOCATION - TAG - QTY.			EQUIPMENT UNIT NAME	EQUIPMENT POWER CHARACTERISTICS & LOAD SPECIFICATIONS											FEED PWR SYS	FEED FROM PANEL	OCPD: FRAME AND TRIP CIRCUIT BREAKER			FDR BRNCH TAG	MOTOR-LISTED EQP - CONTROLLER-STARTER TYPES & LOCATIONS MTR CONTROLLER - SWITCH RATING - OCPD TRIP SIZE														LOCAL DISC. SW. PROVIDED BY ELECTRICAL CONTRACTOR				MOTOR-LISTED EQUIP CONN & OEM REQUIREMENTS PROVIDED BY E.C. CORD & PLUG REC OR FLEX WHIP FOR MOTOR OR SINGLE POINT CONN												REMARKS
ITEM No.	LOCATION	TAG	No.	NAME AND AREA	V	Ø	N	G	PIN	W	HP	MCA	FLA	KW			CB FR	CB TR	POLES		PB	FB	IB	ROOM	SIZE	TYPE	ENC	DS-SW	OCPD	P	NOTE	SIZE	ENC	P	NOTE	PB	REC	LOC	NEMA	GFI	REC No	CPC	HWC	FWC	NOTE	
1	SEE PLANS	ERV	2.1	ENERGY RECOVERY VENTILATOR ERV-2.1 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
1	SEE PLANS	ERV	3.1	ENERGY RECOVERY VENTILATOR ERV-3.1 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
2	SEE PLANS	ERV	3.2	ENERGY RECOVERY VENTILATOR ERV-3.2 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
3	SEE PLANS	ERV	3.3	ENERGY RECOVERY VENTILATOR ERV-3.3 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
4	SEE PLANS	ERV	3.4	ENERGY RECOVERY VENTILATOR ERV-3.4 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
5	SEE PLANS	ERV	4.1	ENERGY RECOVERY VENTILATOR ERV-4.1 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
6	SEE PLANS	ERV	4.2	ENERGY RECOVERY VENTILATOR ERV-4.2 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
7	SEE PLANS	ERV	4.3	ENERGY RECOVERY VENTILATOR ERV-4.3 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
8	SEE PLANS	ERV	4.4	ENERGY RECOVERY VENTILATOR ERV-4.4 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
9	SEE PLANS	ERV	5.1	ENERGY RECOVERY VENTILATOR ERV-5.1 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
10	SEE PLANS	ERV	5.2	ENERGY RECOVERY VENTILATOR ERV-5.2 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
11	SEE PLANS	ERV	5.3	ENERGY RECOVERY VENTILATOR ERV-5.3 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
12	SEE PLANS	ERV	5.4	ENERGY RECOVERY VENTILATOR ERV-5.4 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
13	SEE PLANS	ERV	6.1	ENERGY RECOVERY VENTILATOR ERV-6.1 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
14	SEE PLANS	ERV	6.2	ENERGY RECOVERY VENTILATOR ERV-6.2 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
15	SEE PLANS	ERV	6.3	ENERGY RECOVERY VENTILATOR ERV-6.3 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
16	SEE PLANS	ERV	6.4	ENERGY RECOVERY VENTILATOR ERV-6.4 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
17	SEE PLANS	ERV	7.1	ENERGY RECOVERY VENTILATOR ERV-7.1 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
18	SEE PLANS	ERV	7.2	ENERGY RECOVERY VENTILATOR ERV-7.2 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
19	SEE PLANS	ERV	7.3	ENERGY RECOVERY VENTILATOR ERV-7.3 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
20	SEE PLANS	ERV	7.4	ENERGY RECOVERY VENTILATOR ERV-7.4 SEE PLANS	480	3	1	1	4	5	-	7.8	-	6.51		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	SEE PLANS	CU	2.1	CONDENSING UNIT CU -2.1 SEE PLANS	480	3	1	1	4	5	-	21.1	-	17.52		NML	SEE PLANS	60	25	3	2B	-	MC	EC	SEE PLANS	NA	RMUC	1	30	25	3	1	30	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
19	SEE PLANS	CU	2.2A	CONDENSING UNIT CU -2.2A SEE PLANS	480	3	1	1	4	5	-	31.1	-	25.83		NML	SEE PLANS	60	40	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	1	60	40	3	1	60	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
20	SEE PLANS	CU	2.2B	CONDENSING UNIT CU -2.2B SEE PLANS	480	3	1	1	4	5	-	31.1	-	25.83		NML	SEE PLANS	60	40	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	1	60	40	3	1	60	-	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	SEE PLANS	CU	A1	CONDENSING UNIT CU -A1 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
23	SEE PLANS	CU	A2	CONDENSING UNIT CU -A2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
24	SEE PLANS	CU	A3	CONDENSING UNIT CU -A3 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
25	SEE PLANS	CU	A4	CONDENSING UNIT CU -A4 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
26	SEE PLANS	CU	A5	CONDENSING UNIT CU -A5 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
27	SEE PLANS	CU	A6	CONDENSING UNIT CU -A6 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
28	SEE PLANS	CU	A7	CONDENSING UNIT CU -A7 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
29	SEE PLANS	CU	A8	CONDENSING UNIT CU -A8 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
30	SEE PLANS	CU	A9	CONDENSING UNIT CU -A9 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
31	SEE PLANS	CU	A10	CONDENSING UNIT CU -A10 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
32	SEE PLANS	CU	A11	CONDENSING UNIT CU -A11 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
33	SEE PLANS	CU	A12	CONDENSING UNIT CU -A12 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
34	SEE PLANS	CU	A13	CONDENSING UNIT CU -A13 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
35	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	SEE PLANS	CU	B1	CONDENSING UNIT CU -B1 SEE PLANS	480	3	1	1	4	5	-	43.3	-	35.96		NML	SEE PLANS	60	50	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	50	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
37	SEE PLANS	CU	B2	CONDENSING UNIT CU -B2 SEE PLANS	480	3	1	1	4	5	-	43.3	-	35.96		NML	SEE PLANS	60	50	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	50	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
38	SEE PLANS	CU	B3	CONDENSING UNIT CU -B3 SEE PLANS	480	3	1	1	4	5	-	43.3	-	35.96		NML	SEE PLANS	60	50	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	50	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
39	SEE PLANS	CU	B4	CONDENSING UNIT CU -B4 SEE PLANS	480	3	1	1	4	5	-	43.3	-	35.96		NML	SEE PLANS	60	50	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	50	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
40	SEE PLANS	CU	B5	CONDENSING UNIT CU -B5 SEE PLANS	480	3	1	1	4	5	-	43.3	-	35.96		NML	SEE PLANS	60	50	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	50	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
41	SEE PLANS	CU	B6	CONDENSING UNIT CU -B6 SEE PLANS	480	3	1	1	4	5	-	43.3	-	35.96		NML	SEE PLANS	60	50	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	50	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
42	SEE PLANS	CU	B7	CONDENSING UNIT CU -B7 SEE PLANS	480	3	1	1	4	5	-	43.3	-	35.96		NML	SEE PLANS	60	50	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	50	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
43	SEE PLANS	CU	B7	CONDENSING UNIT CU -B7 SEE PLANS	480	3	1	1	4	5	-	43.3	-	35.96		NML	SEE PLANS	60	50	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	50	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
44	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	SEE PLANS	CU	C1	CONDENSING UNIT CU -C1 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
46	SEE PLANS	CU	C1.2	CONDENSING UNIT CU -C1.2 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
47	SEE PLANS	CU	C2	CONDENSING UNIT CU -C2 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
48	SEE PLANS	CU	C2.2	CONDENSING UNIT CU -C2.2 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
49	SEE PLANS	CU	C3	CONDENSING UNIT CU -C3 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
50	SEE PLANS	CU	C3.2	CONDENSING UNIT CU -C3.2 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
51	SEE PLANS	CU	C4	CONDENSING UNIT CU -C4 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
52	SEE PLANS	CU	C4.2	CONDENSING UNIT CU -C4.2 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
53	SEE PLANS	CU	C5	CONDENSING UNIT CU -C5 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
54	SEE PLANS	CU	C5.2	CONDENSING UNIT CU -C5.2 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
55	SEE PLANS	CU	C6	CONDENSING UNIT CU -C6 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
56	SEE PLANS	CU	C6.2	CONDENSING UNIT CU -C6.2 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	N

NA

EQUIPMENT SCHEDULE

STEP 1 CONFIRM FINAL LOCATION OF EQUIP. WITH THE MECH. DRAWINGS & OEM'S SHOPS PRIOR TO INSTALLING CONDUIT. SEE PWR. DWGS. FOR EQUIP. TAG LOCATIONS

STEP 2 REVIEW ARCH, KIT, MECH, PLBG, FIRE PROT. SUBMITTALS-SHOP DRAWINGS. FINAL EQUIP. LOCATION, ELEVATION, & PWR. REQUIREMENTS PRIOR TO INSTALLING CONDUIT.

STEP 3 CONFIRM LOAD REQUIREMENTS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT SEE SCHDLE DWGS. FOR PANELBOARD FEEDER-BRANCH CIRCUIT NUMBERS.

STEP 4 CONFIRM IN THE FIELD PNLBD-SWBD RATINGS WITH MECH'S OEM PRIOR TO INSTALLING CONDUITS. SEE PWR. DWGS. FOR PNLBD-SWBD LOCATIONS.

STEP 5 CONFIRM IN THE FIELD OCPD REQUIREMENTS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. OCPD RATINGS DERIVED FROM MECH'S OEM'S SPECS OR MOTOR SIZING PER CODE.

STEP 6 CONFIRM IN THE FIELD FEEDER-BRANCH CIRCUIT SIZING WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT.

STEP 7 SEE FEEDER-BRANCH CIRCUIT SCHEDULE FOR TAG-WIRE SIZE.

STEP 8 CONFIRM IN THE FIELD CONTACTOR-STARTER-VFC-PRMS-DS SW RATINGS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. ALL FULL VOLTAGE MAGNETIC STARTERS SHALL BE PROVIDED WITH HAND-OFF-AUTO SELECTOR SWITCH AND PILOT LIGHTS.

STEP 9 CONFIRM IN THE FIELD THERMAL OVERLOAD RATINGS WITH OEM PROVIDE OVERLOADS PER OEM SPECS.

STEP 10 CONFIRM IN THE FIELD WITH OEM PRIOR TO INSTALLING CONDUIT LOCATE DISC SW SWITCH WITHIN 5FT & WITHIN SIGHT OF THE MOTOR-LISTED EQUIPMENT.

STEP 11 PROVIDE CONN. TO MOTOR-LISTED EQUIP PROVIDE A Cu EQUIP GROUND (EGC) FROM DISC SW SWITCH TO MOTOR ELECT.-EQUIP CONNECTION POINT-JUNCTION BOX.

FVNR	FULL VOLT NON-REVERSING MAGNETIC STARTER WITH HAND-OFF-AUTO SELECTOR SWITCH AND PILOT LIGHTS
FVR	FULL VOLT REVERSING MAGNETIC STARTER
VFC	VARIABLE FREQUENCY CONTROLLER
PRMS	PWR RELAY-MANUAL STARTER W- OVERLOADS
2SP1W	TWO-SPEED SINGLE WINDING FVNR MAG STRTR
2SP2W	TWO-SPEED TWO WINDING FVNR MAG STRTR
CPT	CONTROL POWER TRANSFORMER
IMUC	INTERNAL MOUNTED UNIT CONTROLLER
RMUC	REMOTE MOUNTED UNIT CONTROLLER

PR	POWER RELAY	EM	EMERGENCY POWER	FPC	FIRE PROTECTION CONTRACTOR
TC	TIME CLOCK CNTRLER	NML	NORMAL POWER	OWN	OWNER
T-S	TEMP-SENSOR SW	SBY	STANDBY POWER	CPC	CORD-PLUG CONNECTION
W-STAT	WALL LINE VOLT STAT	NA	NOT APPLICABLE	FWC	FLEXIBLE WHIP CONDUIT
WS	WALL LINE VOLT SW	BRNCH	BRANCH CIRCUIT	HWC	HARD WIRED CONN
FB	FURNISHED BY	GC	GENERAL CONTRACTOR	ENC	NEMA ENCLOSURE
IB	INSTALLED BY	KC	KITCHEN CONTRACTOR	LOC	LOCKING
PB	PROVIDED BY	MC	MECHANICAL CONTRACTOR	REC	RECEPTACLE
FDR	FEEDER CIRCUIT	PC	PLUMBING CONTRACTOR	OCPD	OVERCURRENT PROTECT DEVICE
				OEM	ORIGINAL EQP MANUFACTURER

NOTES:

1. PROVIDE RACKING FOR STRTR TYPES (FVNR, FVR, PRMS, 2SP1W, & 2SP2W) PROVIDE THERMAL OVERLOADS PER OEM-FIELD VERIFICATION PROVIDE TWO SETS FORM "C" AUX CONTACTS WITH STARTER PROVIDE 24Vac CONTROL COIL FOR POWER RELAYS-MANUAL STRTR "PRMS"
2. PROVIDE RACKING FOR VARIABLE FEQUENCY CONTROLLER "VFC" CALIBRATE OVERLOADS PER OEM-FIELD VERIFICATION RESULTS PROVIDE FOUR SETS FORM "C" CONTACTS WITH VFC PROVIDE OEM START-UP & COMMISSIONING PRIOR TO PUNCHLIST PROVIDE WRITTEN VFC FIELD PROGRAMMED SETTINGS
3. DISC SW SHALL BE IN SIGHT OF MOTOR-EQP AND SHALL NOT EXCEED MAX DIST OF 5FT FROM MOTOR-EQUIP MAX HEIGHT OF DISCONNECT SWITCH HANDLE SHALL NOT EXCEED 6'-3" PROVIDE SIX POLE DISC SW FOR TWO SPEED AND ONE-TWO WINDING MOTORS.
4. CONFIRM MOTOR ROTATION-OPERATION WITH OEM REP PRIOR TO ENERGIZING MOTOR EQUIP. PROVIDE GROUNDING PER OEM SPECS. FLEX CONDUIT SHALL NOT EXCEED 72" MAXIMUM LENGTH.
5. PROVIDE A DEDICATED 120VAC CIRCUIT TO EACH MECHANICAL EQUIPMENT (AHU,RTU, ERV, MAU, ETC.) FOR INTERNAL FAN HOUSING LIGHTING AND RECEPTACLE DEVICE CIRCUIT.
6. CONTRACTOR MAY CONNECT MULTIPLE PIECES OF EQUIPMENT ON A SINGLE BRANCH CIRCUIT.

GENERAL NOTE:
PROVIDE A DUCT SMOKE DETECTOR COMPLETE WITH AIR SAMPLING TUBES AND REMOTE KEYED TEST STATION FOR ALL HVAC EQUIPMENT MAIN HEADER DUCTS AS FOLLOWS: RETURN HEADER DUCT RATED 2,000 CFM OR GREATER SUPPLY HEADER DUCT RATED 15,000 CFM OR GREATER. PROVIDE INTERFACE MODULES AND CONNECT TO FIRE ALARM CONTROL PANEL.

STEPS	1		2	3												4A	4B	5			6 & 7	8 & 9																10				11									12
ITEM	EQUIPMENT LOCATION - TAG - QTY.			EQUIPMENT UNIT NAME	EQUIPMENT POWER CHARACTERISTICS & LOAD SPECIFICATIONS											FEED PWR SYS	FEED FROM PANEL	OCPD- FRAME AND TRIP CIRCUIT BREAKER			FDR BRNCH TAG	MOTOR-LISTED EQP - CONTROLLER-STARTER TYPES & LOCATIONS MTR CONTROLLER - SWITCH RATING - OCPD TRIP SIZE																LOCAL DISC. SW. PROVIDED BY ELECTRICAL CONTRACTOR				MOTOR-LISTED EQUIP CONN & OEM REQUIREMENTS PROVIDED BY E.C. CORD & PLUG REC OR FLEX WHIP FOR MOTOR OR SINGLE POINT CONN										REMARKS
No.	LOCATION	TAG	No.	NAME AND AREA	V	Ø	N	G	PIN	W	HP	MCA	FLA	KW			CB FR	CB TR	POLES		PB	FB	IB	ROOM	SIZE	TYPE	ENC	DS-SW	OCPD	P	NOTE	SIZE	ENC	P	NOTE	PB	REC	LOC	NEMA	GFI	REC No	CPC	HWC	FWC	NOTE	
1	SEE PLANS	CU	E1	CONDENSING UNIT CU -E1 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
2	SEE PLANS	CU	E1.2	CONDENSING UNIT CU -E1.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
3	SEE PLANS	CU	E2	CONDENSING UNIT CU -E2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
4	SEE PLANS	CU	E2.2	CONDENSING UNIT CU -E2.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
5	SEE PLANS	CU	E3	CONDENSING UNIT CU -E3 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
6	SEE PLANS	CU	E3.2	CONDENSING UNIT CU -E3.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
7	SEE PLANS	CU	E4	CONDENSING UNIT CU -E4 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
8	SEE PLANS	CU	E4.2	CONDENSING UNIT CU -E4.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
9	SEE PLANS	CU	E5	CONDENSING UNIT CU -E5 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
10	SEE PLANS	CU	E5.2	CONDENSING UNIT CU -E5.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
11	SEE PLANS	CU	E6	CONDENSING UNIT CU -E6 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
12	SEE PLANS	CU	E6.2	CONDENSING UNIT CU -E6.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
13	SEE PLANS	CU	E7	CONDENSING UNIT CU -E7 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
14	SEE PLANS	CU	E7.2	CONDENSING UNIT CU -E7.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
15	SEE PLANS	CU	E8	CONDENSING UNIT CU -E8 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
16	SEE PLANS	CU	E8.2	CONDENSING UNIT CU -E8.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
17	SEE PLANS	CU	E9	CONDENSING UNIT CU -E9 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
18	SEE PLANS	CU	E9.2	CONDENSING UNIT CU -E9.2 SEE PLANS	480	3	1	1	4	5	-	39.8	-	33.05		NML	SEE PLANS	60	45	3	4B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	45	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	SEE PLANS	CU	F1	CONDENSING UNIT CU -F1 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
21	SEE PLANS	CU	F2	CONDENSING UNIT CU -F2 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
22	SEE PLANS	CU	F3	CONDENSING UNIT CU -F3 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
23	SEE PLANS	CU	F4	CONDENSING UNIT CU -F4 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
24	SEE PLANS	CU	F5	CONDENSING UNIT CU -F5 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
25	SEE PLANS	CU	F6	CONDENSING UNIT CU -F6 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
26	SEE PLANS	CU	F6	CONDENSING UNIT CU -F6 SEE PLANS	480	3	1	1	4	5	-	28.1	-	23.33		NML	SEE PLANS	60	35	3	3B	-	MC	EC	SEE PLANS	NA	RMUC	3R	60	35	3	1	60	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	SEE PLANS	CU	1.1	CONDENSING UNIT CU -1.1 SEE PLANS	208	1	1	1	3	4	-	27.0	-	5.62		NML	SEE PLANS	30	30	2	2D	-	MC	EC	SEE PLANS	NA	RMUC	1	30	30	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30	SEE PLANS	AC	1	AIR COND UNIT AC-1 SEE PLANS	208	1	1	1	3	4	-	0.7	-	0.15		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
31	SEE PLANS	AC	2	AIR COND UNIT AC-2 SEE PLANS	208	1	1	1	3	4	-	0.7	-	0.15		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
32	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
33	SEE PLANS	FCU	1.1	FAN COIL UNIT FCU-1.1 SEE PLANS	208	1	1	1	3	4	-	3.4	-	0.71		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
34	SEE PLANS	FCU	1.2	FAN COIL UNIT FCU-1.2 SEE PLANS	208	1	1	1	3	4	-	0.4	-	0.08		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
35	SEE PLANS	FCU	1.3	FAN COIL UNIT FCU-1.3 SEE PLANS	208	1	1	1	3	4	-	3.4	-	0.71		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
36	SEE PLANS	FCU	1.4	FAN COIL UNIT FCU-1.4 SEE PLANS	208	1	1	1	3	4	-	3.4	-	0.71		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
37	SEE PLANS	FCU	1.5	FAN COIL UNIT FCU-1.5 SEE PLANS	208	1	1	1	3	4	-	0.3	-	0.06		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
38	SEE PLANS	FCU	1.6	FAN COIL UNIT FCU-1.6 SEE PLANS	208	1	1	1	3	4	-	0.3	-	0.06		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
39	SEE PLANS	FCU	1.7	FAN COIL UNIT FCU-1.7 SEE PLANS	208	1	1	1	3	4	-	2.8	-	0.58		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
40	SEE PLANS	FCU	1.8	FAN COIL UNIT FCU-1.8 SEE PLANS	208	1	1	1	3	4	-	0.6	-	0.12		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
41	SEE PLANS	FCU	1.9	FAN COIL UNIT FCU-1.9 SEE PLANS	208	1	1	1	3	4	-	1.8	-	0.37		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
42	SEE PLANS	FCU	1.10	FAN COIL UNIT FCU-1.1 SEE PLANS	208	1	1	1	3	4	-	1.8	-	0.37		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
43	SEE PLANS	FCU	1.11	FAN COIL UNIT FCU-1.11 SEE PLANS	208	1	1	1	3	4	-	1.8	-	0.37		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
44	SEE PLANS	FCU	1.12	FAN COIL UNIT FCU-1.12 SEE PLANS	208	1	1	1	3	4	-	2.8	-	0.58		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
45	SEE PLANS	FCU	1.13	FAN COIL UNIT FCU-1.13 SEE PLANS	208	1	1	1	3	4	-	2.8	-	0.58		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
46	SEE PLANS	FCU	2.1	FAN COIL UNIT FCU-2.1 SEE PLANS	208	1	1	1	3	4	-	2.9	-	0.60		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
47	SEE PLANS	FCU	3.1	FAN COIL UNIT FCU-3.1 SEE PLANS	208	1	1	1	3	4	-	4.9	-	1.02		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
48	SEE PLANS	FCU	3.2	FAN COIL UNIT FCU-3.2 SEE PLANS	208	1	1	1	3	4	-	4.9	-	1.02		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
49	SEE PLANS	FCU	D	FAN COIL UNIT FCU-D SEE PLANS	208	1	1	1	3	4	-	0.6	-	0.12		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
50	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
51	DWELLING UNITS	FCU	A	FAN COIL UNIT FCU-A DWELLING UNITS	208	1	1	1	3	4	-	4.9	-	1.02		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
52	DWELLING UNITS	FCU	B	FAN COIL UNIT FCU-B DWELLING UNITS	208	1	1	1	3	4	-	4.9	-	1.02		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
53	DWELLING UNITS	FCU	C	FAN COIL UNIT FCU-C DWELLING UNITS	208	1	1	1	3	4	-	4.9	-	1.02		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
54	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
55	SEE PLANS	BSB	2.1	VRF ZONE SELECTOR BSB-2.1 SEE PLANS	208	1	1	1	3	4	-	0.6	-	0.13		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	RMUC	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
56	SEE PLANS	BSB	2.2	VRF ZONE SELECTOR BSB-2.2 SEE PLANS	208	1	1	1	3	4	-	0.5	-	0.10		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	RMUC	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
57	SEE PLANS	BSB	2.3	VRF ZONE SELECTOR BSB-2.3 SEE PLANS	208	1	1	1	3	4	-	0.5	-	0.10		NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	RMUC	1	30	15	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
58	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
59	SEE PLANS	EF	1.1	EXHAUST FAN EF-1.1 SEE PLANS	480	3	1	1	4	5	3	-	4.8	3.99		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	1	WS	1	30	15	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
60	SEE PLANS	EF	1.2	EXHAUST FAN EF-1.2 SEE PLANS	480	3	1	1	4	5	3	-	4.8	3.99		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	1	WS	1	30	15	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
61	SEE PLANS	EF	1.3	EXHAUST FAN EF-1.3 SEE PLANS	480	3	1	1	4	5	3	-	4.8	3.99		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	1	WS	1	30	15	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
62	SEE PLANS	EF	2.1	EXHAUST FAN EF-2.1 SEE PLANS	480	3	1	1	4	5	3	-	4.8	3.99		NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	1	WS	1	30	15	3	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
63	SEE PLANS	EF	2.2	EXHAUST FAN EF-2.2 SEE PLANS	480

NA

EQUIPMENT SCHEDULE

STEP 1 CONFIRM FINAL LOCATION OF EQUIP. WITH THE MECH. DRAWINGS & OEM'S SHOPS PRIOR TO INSTALLING CONDUIT. SEE PWR. DWGS. FOR EQUIP. TAG LOCATIONS

STEP 2 REVIEW ARCH, KIT, MECH, PLBG, FIRE PROT. SUBMITTALS-SHOP DRAWINGS. FINAL EQUIP. LOCATION, ELEVATION, & PWR. REQUIREMENTS PRIOR TO INSTALLING CONDUIT.

STEP 3 CONFIRM LOAD REQUIREMENTS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT SEE SCHDLE DWGS. FOR PANELBOARD FEEDER-BRANCH CIRCUIT NUMBERS.

STEP 4 CONFIRM IN THE FIELD PNLBD-SWBD RATINGS WITH MECH'S OEM PRIOR TO INSTALLING CONDUITS. SEE PWR. DWGS. FOR PNLBD-SWBD LOCATIONS.

STEP 5 CONFIRM IN THE FIELD OCPD REQUIREMENTS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. OCPD RATINGS DERIVED FROM MECH'S OEM'S SPECS OR MOTOR SIZING PER CODE.

STEP 6 CONFIRM IN THE FIELD FEEDER-BRANCH CIRCUIT SIZING WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT.

STEP 7 SEE FEEDER-BRANCH CIRCUIT SCHEDULE FOR TAG-WIRE SIZE.

STEP 8 CONFIRM IN THE FIELD CONTACTOR-STARTER-VFC-PRMS-DS SW RATINGS WITH MECH'S OEM PRIOR TO INSTALLING CONDUIT. ALL FULL VOLTAGE MAGNETIC STARTERS SHALL BE PROVIDED WITH HAND-OFF-AUTO SELECTOR SWITCH AND PILOT LIGHTS.

STEP 9 CONFIRM IN THE FIELD THERMAL OVERLOAD RATINGS WITH OEM PROVIDE OVERLOADS PER OEM SPECS.

STEP 10 CONFIRM IN THE FIELD WITH OEM PRIOR TO INSTALLING CONDUIT LOCATE DISC SW SWITCH WITHIN 5FT & WITHIN SIGHT OF THE MOTOR-LISTED EQUIPMENT.

STEP 11 PROVIDE CONN. TO MOTOR-LISTED EQUIP PROVIDE A Cu EQUIP GROUND (EGC) FROM DISC SW SWITCH TO MOTOR ELECT.-EQUIP CONNECTION POINT-JUNCTION BOX.

FVNR	FULL VOLT NON-REVERSING MAGNETIC STARTER WITH HAND-OFF-AUTO SELECTOR SWITCH AND PILOT LIGHTS
FVR	FULL VOLT REVERSING MAGNETIC STARTER
VFC	VARIABLE FREQUENCY CONTROLLER
PRMS	PWR RELAY-MANUAL STARTER W- OVERLOADS
2SP1W	TWO-SPEED SINGLE WINDING FVNR MAG STRTR
2SP2W	TWO-SPEED TWO WINDING FVNR MAG STRTR
CPT	CONTROL POWER TRANSFORMER
IMUC	INTERNAL MOUNTED UNIT CONTROLLER
RMUC	REMOTE MOUNTED UNIT CONTROLLER

PR	POWER RELAY	EM	EMERGENCY POWER	FPC	FIRE PROTECTION CONTRACTOR
TC	TIME CLOCK CNTRLER	NML	NORMAL POWER	OWN	OWNER
T-S	TEMP-SENSOR SW	SBY	STANDBY POWER	CPC	CORD-PLUG CONNECTION
W-STAT	WALL LINE VOLT STAT	NA	NOT APPLICABLE	FWC	FLEXIBLE WHIP CONDUIT
WS	WALL LINE VOLT SW	BRNCH	BRANCH CIRCUIT	HWC	HARD WIRED CONN
FB	FURNISHED BY	GC	GENERAL CONTRACTOR	ENC	NEMA ENCLOSURE
IB	INSTALLED BY	KC	KITCHEN CONTRACTOR	LOC	LOCKING
PB	PROVIDED BY	MC	MECHANICAL CONTRACTOR	REC	RECEPTACLE
FDR	FEEDER CIRCUIT	PC	PLUMBING CONTRACTOR	OCPD	OVERCURRENT PROTECT DEVICE
				OEM	ORIGINAL EQP MANUFACTURER

NOTES:

1. PROVIDE RACKING FOR STRTR TYPES (FVNR, FVR, PRMS, 2SP1W, & 2SP2W) PROVIDE THERMAL OVERLOADS PER OEM-FIELD VERIFICATION PROVIDE TWO SETS FORM "C" AUX CONTACTS WITH STARTER PROVIDE 24Vac CONTROL COIL FOR POWER RELAYS-MANUAL STRTR "PRMS"

2 PROVIDE RACKING FOR VARIABLE FEQUENCY CONTROLLER "VFC" CALIBRATE OVERLOADS PER OEM-FIELD VERIFICATION RESULTS PROVIDE FOUR SETS FORM "C" CONTACTS WITH VFC PROVIDE OEM START-UP & COMMISSIONING PRIOR TO PUNCHLIST PROVIDE WRITTEN VFC FIELD PROGRAMMED SETTINGS

3 DISC SW SHALL BE IN SIGHT OF MOTOR-EQP AND SHALL NOT EXCEED MAX DIST OF 5FT FROM MOTOR-EQUIP MAX HEIGHT OF DISCONNECT SWITCH HANDLE SHALL NOT EXCEED 6'-3" PROVIDE SIX POLE DISC SW FOR TWO SPEED AND ONE-TWO WINDING MOTORS.

4 CONFIRM MOTOR ROTATION-OPERATION WITH OEM REP PRIOR TO ENERGIZING MOTOR EQUIP. PROVIDE GROUNDING PER OEM SPECS. FLEX CONDUIT SHALL NOT EXCEED 72" MAXIMUM LENGTH.

5 PROVIDE A DEDICATED 120VAC CIRCUIT TO EACH MECHANICAL EQUIPMENT (AHU,RTU, ERV, MAU, ETC.) FOR INTERNAL FAN HOUSING LIGHTING AND RECEPTACLE DEVICE CIRCUIT.

6 CONTRACTOR MAY CONNECT MULTIPLE PIECES OF EQUIPMENT ON A SINGLE BRANCH CIRCUIT.

GENERAL NOTE:
PROVIDE A DUCT SMOKE DETECTOR COMPLETE WITH AIR SAMPLING TUBES AND REMOTE KEYED TEST STATION FOR ALL HVAC EQUIPMENT MAIN HEADER DUCTS AS FOLLOWS: RETURN HEADER DUCT RATED 2,000 CFM OR GREATER SUPPLY HEADER DUCT RATED 15,000 CFM OR GREATER. PROVIDE INTERFACE MODULES AND CONNECT TO FIRE ALARM CONTROL PANEL.

STEPS	1			2	3										4A	4B	5			6 & 7	8 & 9															10				11											12
ITEM	EQUIPMENT LOCATION - TAG - QTY.			EQUIPMENT UNIT NAME	EQUIPMENT POWER CHARACTERISTICS & LOAD SPECIFICATIONS										FEED PWR SYS	FEED FROM PANEL	OCPD: FRAME AND TRIP CIRCUIT BREAKER			FDR BRNCH TAG	MOTOR-LISTED EQP - CONTROLLER-STARTER TYPES & LOCATIONS MTR CONTROLLER - SWITCH RATING - OCPD TRIP SIZE															LOCAL DISC. SW. PROVIDED BY ELECTRICAL CONTRACTOR				MOTOR-LISTED EQUIP CONN & OEM REQUIREMENTS PROVIDED BY E.C. CORD & PLUG REC OR FLEX WHIP FOR MOTOR OR SINGLE POINT CONN											REMARKS
No.	LOCATION	TAG	No.	NAME AND AREA	V	Ø	N	G	PIN	W	HP	MCA	FLA	KW	SYS	PANEL	CB FR	CB TR	POLES	TAG	PB	FB	IB	ROOM	SIZE	TYPE	ENC	DS-SW	OCPD	P	NOTE	SIZE	ENC	P	NOTE	PB	REC	LOC	NEMA	GFI	REC No	CPC	HWC	FWC	NOTE	
1	SEE PLANS	CUH	1.1	CABINET UNIT HEATER CUH-1.1 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
2	SEE PLANS	CUH	1.2	CABINET UNIT HEATER CUH-1.2 SEE PLANS	480	3	1	1	4	5	-	9.6	-	8.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
3	SEE PLANS	CUH	1.3	CABINET UNIT HEATER CUH-1.3 SEE PLANS	480	3	1	1	4	5	-	3.6	-	3.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
4	SEE PLANS	CUH	1.4	CABINET UNIT HEATER CUH-1.4 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
5	SEE PLANS	CUH	1.5	CABINET UNIT HEATER CUH-1.5 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
6	SEE PLANS	CUH	1.6	CABINET UNIT HEATER CUH-1.6 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
7	SEE PLANS	CUH	1.7	CABINET UNIT HEATER CUH-1.7 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
8	SEE PLANS	CUH	1.8	CABINET UNIT HEATER CUH-1.8 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
9	SEE PLANS	CUH	1.9	CABINET UNIT HEATER CUH-1.9 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
10	SEE PLANS	CUH	2.1	CABINET UNIT HEATER CUH-2.1 SEE PLANS	480	3	1	1	4	5	-	3.6	-	3.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
11	SEE PLANS	CUH	2.2	CABINET UNIT HEATER CUH-2.2 SEE PLANS	480	3	1	1	4	5	-	3.6	-	3.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
12	SEE PLANS	CUH	2.3	CABINET UNIT HEATER CUH-2.3 SEE PLANS	208	1	1	1	3	4	-	14.4	-	3.00	NML	SEE PLANS	30	25	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	25	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
13	SEE PLANS	CUH	3.1	CABINET UNIT HEATER CUH-3.1 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
14	SEE PLANS	CUH	3.3	CABINET UNIT HEATER CUH-3.3 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
15	SEE PLANS	CUH	7.1	CABINET UNIT HEATER CUH-7.1 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
16	SEE PLANS	CUH	7.2	CABINET UNIT HEATER CUH-7.2 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
17	SEE PLANS	CUH	7.3	CABINET UNIT HEATER CUH-7.3 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
18	SEE PLANS	CUH	7.4	CABINET UNIT HEATER CUH-7.4 SEE PLANS	480	3	1	1	4	5	-	6.0	-	5.00	NML	SEE PLANS	30	15	3	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	3	1	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	3
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	SEE PLANS	EUH	1.1	ELECTRIC UNIT HEATER EUH-1.1 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
21	SEE PLANS	EUH	1.2	ELECTRIC UNIT HEATER EUH-1.2 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
22	SEE PLANS	EUH	1.3	ELECTRIC UNIT HEATER EUH-1.3 SEE PLANS	480	3	1	1	4	5	-	45.2	-	37.50	NML	SEE PLANS	100	70	3	5B	-	MC	EC	SEE PLANS	NA	W-STAT	1	100	70	3	1	100	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
23	SEE PLANS	EUH	1.4	ELECTRIC UNIT HEATER EUH-1.4 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
24	SEE PLANS	EUH	1.5	ELECTRIC UNIT HEATER EUH-1.5 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
25	SEE PLANS	EUH	1.6	ELECTRIC UNIT HEATER EUH-1.6 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
26	SEE PLANS	EUH	1.7	ELECTRIC UNIT HEATER EUH-1.7 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
27	SEE PLANS	EUH	1.8	ELECTRIC UNIT HEATER EUH-1.8 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
28	SEE PLANS	EUH	1.9	ELECTRIC UNIT HEATER EUH-1.9 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
29	SEE PLANS	EUH	1.10	ELECTRIC UNIT HEATER EUH-1.1 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
30	SEE PLANS	EUH	2.1	ELECTRIC UNIT HEATER EUH-2.1 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
31	SEE PLANS	EUH	2.2	ELECTRIC UNIT HEATER EUH-2.2 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
32	SEE PLANS	EUH	2.3	ELECTRIC UNIT HEATER EUH-2.3 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
33	SEE PLANS	EUH	2.4	ELECTRIC UNIT HEATER EUH-2.4 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
34	SEE PLANS	EUH	2.5	ELECTRIC UNIT HEATER EUH-2.5 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
35	SEE PLANS	EUH	2.6	ELECTRIC UNIT HEATER EUH-2.6 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
36	SEE PLANS	EUH	2.7	ELECTRIC UNIT HEATER EUH-2.7 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
37	SEE PLANS	EUH	2.8	ELECTRIC UNIT HEATER EUH-2.8 SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
38	SEE PLANS	EUH	2.X	ELECTRIC UNIT HEATER EUH-2.X SEE PLANS	208	1	1	1	3	4	-	12.0	-	2.50	NML	SEE PLANS	30	20	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	20	2	1	30	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	SEE PLANS	CUH	A	GASFIRED UNIT HEATER CUH-A SEE PLANS	208	1	1	1	3	-	-	5.5	-	1.13	NML	SEE PLANS	30	15	2	2B	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	3R	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	NOTE 6
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	DWELLING UNITS	EBB	1	ELECTRIC BASEBOARD HEATER EBB-1 DWELLING UNITS	208	1	1	1	3	4	-	6.0	-	1.25	NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	3R	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
39	DWELLING UNITS	EBB	2	ELECTRIC BASEBOARD HEATER EBB-2 DWELLING UNITS	208	1	1	1	3	4	-	6.0	-	1.25	NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	3R	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
40	DWELLING UNITS	EBB	3	ELECTRIC BASEBOARD HEATER EBB-3 DWELLING UNITS	208	1	1	1	3	4	-	6.0	-	1.25	NML	SEE PLANS	30	15	2	2D	-	MC	EC	SEE PLANS	NA	W-STAT	1	30	15	2	1	30	3R	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	3
41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	DWELLING UNITS	EWH	1	ELECT WATER HEATER EWH-1 DWELLING UNITS	208	1	1	1	3	4	-	21.6	-	4.50	NML	SEE PLANS	60	35	2	3D	-	PC	EC	SEE PLANS	NA	IMUC	1	60	35	2	-	60	1	2	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
43	SEE PLANS	EWH	2	ELECT WATER HEATER EWH-2 SEE PLANS	480	3	1	1	4	5	-	7.2	-	6.00	NML	SEE PLANS	30	15	3	2B	-	PC	EC	SEE PLANS	NA	IMUC	1	30	15	3	-	30	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
44	SEE PLANS	EWH	3	ELECT WATER HEATER EWH-3 SEE PLANS	120	1	1	1	2	3	-	29.2	-	3.50	NML	SEE PLANS	60	45	1	4G	-	PC	EC	SEE PLANS	NA	IMUC	1	60	45	1	-	60	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
45	SEE PLANS	EWH	4	ELECT WATER HEATER EWH-4 SEE PLANS	120	1	1	1	2	3	-	25.0	-	3.00	NML	SEE PLANS	60	40	1	3G	-	PC	EC	SEE PLANS	NA	IMUC	1	60	40	1	-	60	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	SEE PLANS	BP	1	BOOSTER PUMP BP-1 SEE PLANS	480	3	1	1	4	5	20	-	27.0	22.42	EM	SEE PLANS	60	45	3	4B	-	PC	EC	SEE PLANS	2	FVNR	3R	60	45	3	1	60	1	3	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
49	SEE PLANS	EPP	1	ELEVATOR PIT PUMP EPP-1 SEE PLANS	120	1	1	1	2	3	1/2	-	9.8	1.18	EM	SEE PLANS	30	15	1	2G	-	PC	EC	SEE PLANS	1	WS	3R	30	15	1	1	30	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
50	SEE PLANS	EPP	2	ELEVATOR PIT PUMP EPP-2 SEE PLANS	120	1	1	1	2	3	1/2	-	9.8	1.18	EM	SEE PLANS	30	15	1	2G	-	PC	EC	SEE PLANS	1	WS	3R	30	15	1	1	30	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
51	SEE PLANS	EPP	3	ELEVATOR PIT PUMP EPP-3 SEE PLANS	120	1	1	1	2	3	1/2	-	9.8	1.18	EM	SEE PLANS	30	15	1	2G	-	PC	EC	SEE PLANS	1	WS	3R	30	15	1	1	30	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
52	SEE PLANS	EPP	4	ELEVATOR PIT PUMP EPP-4 SEE PLANS	120	1	1	1	2	3	1/2	-	9.8	1.18	EM	SEE PLANS	30	15	1	2G	-	PC	EC	SEE PLANS	1	WS	3R	30	15	1	1	30	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
54	SEE PLANS	RCP	1	HOT WATER RECIRCULATION PUMP RCP-1 SEE PLANS	120	1	1	1	2	3	1/12	-	3.3	0.40	NML	SEE PLANS	30	15	1	2G	-	PC	EC	SEE PLANS	1	WS	3R	30	15	1	1	30	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
56	SEE PLANS	DV	1	DRY VALVE DV-1 SEE PLANS	120	1	1	1	2	3	1	-	16.0	1.92	EM	SEE PLANS	30	25	1	2G	-	FPC	EC	SEE PLANS	1	WS	1	30	25	1	1	30	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
57	SEE PLANS	DV	2	DRY VALVE DV-2 SEE PLANS	120	1	1	1	2	3	1	-	16.0	1.92	EM	SEE PLANS	30	25	1	2G	-	FPC	EC	SEE PLANS	1	WS	1	30	25	1	1	30	1	1	3	EC	NA	-	NA	NA	NA	NA	YES	YES	4	
58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
59	SEE PLANS	FP	1	FIRE PUMP FP-1 SEE PLANS	480	3	1	1	4	5	150	-	180.0	149.47	EM	SEE PLANS	400	300	3	SEE RISER DAIGRAM	FPC	-	-	SEE PLANS	-	FVNR	3R	400	300

PANEL BOARD: NH-MP-1

Location:	MAIN ELEC ROOM	**Volts:**	480/277 Wye	**Mains Type:**	MCB
Supply From:	H-MSB-1	**Phases:**	3	**Mains Rating:**	400 A
Mounting:	SURFACE	**Wires:**	4	**MCB Rating:**	400 A
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	XFMR-MP	175 A	3	36715 VA	33750 VA	30865 VA
4,5,6	EF-1.1	15 A	3	1330 VA	1330 VA	1330 VA
7,8,9	EF-1.2	15 A	3	1330 VA	1330 VA	1330 VA
10,11,12	EF-1.3	15 A	3	1330 VA	1330 VA	1330 VA
13,14,15	CUH-1.1	15 A	3	1667 VA	1667 VA	1667 VA
16,17,18	CUH-1.2	15 A	3	2667 VA	2667 VA	2667 VA
19,20,21	CUH-1.3	15 A	3	1000 VA	1000 VA	1000 VA
22,23,24	CUH-1.4	15 A	3	1667 VA	1667 VA	1667 VA
25,26,27	CUH-1.5	15 A	3	1667 VA	1667 VA	1667 VA
28,29,30	CUH-1.5	15 A	3	1667 VA	1667 VA	1667 VA
31,32,33	CUH-1.7	15 A	3	1667 VA	1667 VA	1667 VA
34,35,36	CUH-1.8	15 A	3	1667 VA	1667 VA	1667 VA
37,38,39	CUH-1.9	15 A	3	1667 VA	1667 VA	1667 VA
40,41,42	EUH-1.3	70 A	3	12500 VA	12500 VA	12500 VA
43,44,45	SPARE	20 A	3	0 VA	0 VA	0 VA
46,47,48	SPARE	20 A	3	0 VA	0 VA	0 VA
49,50,51	SPARE	20 A	3	0 VA	0 VA	0 VA
52,53,54	SPARE	20 A	3	0 VA	0 VA	0 VA
			Total Load:	68538 VA	65573 VA	62688 VA
			Total Amps:	249 A	238 A	226 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
ELECTRICAL HEATING	78500 VA	100.00%	78500 VA	**Total Conn. Load:**	196800 VA
MOTOR/EQUIPT.	118300 VA	70.00%	82810 VA	**Total Est. Demand:**	161310 VA
				Total Conn. Current:	237 A
				Total Est. Demand...	194 A

SWITCHBOARD: L-MSB-E

LOCATION:		**VOLTS:**	120/208 Wye	**MAINS TYPE:**	4000 A COPPER BUS
FED FROM:	PAD MOUNTED COMED...	**PHASES:**	3	**MAINS RATING:**	4000 A
MOUNTING TYPE:	PAD MOUNTED	**WIRES:**	4	**MAIN CIRCUT...**	4000 A
ENCLOSURE:	NEMA 1	**A.I.C....**	100,000 AIC	**NEUTRAL BUS:**	100% RATED FULL COPPER WITH BUS...
OTHER:	PROVIDE 4" HIGH CONCRETE...			**GROUND BUS:**	100% RATED FULL COPPER

CCT NO.	DESCRIPTION	Load	FRAME SIZE	TRIP RATING	POLES	BREAKER TYPE	BREAKER RATING	NOTES
1	4000A BUS DUCT EAST	3418150...	4000 A	4000 A	3	MCCB	80%	
2	SURGE PROTECTION DEVICE	0 VA	--	60 A	3	MCCB	80%	
3	SPACE	0 VA	--	--	--			--
4	SPACE	0 VA	--	--	--			--
5	SPACE	0 VA	--	--	--			--
6	SPACE	0 VA	--	--	--			--
7	SPACE	0 VA	--	--	--			--
8	SPACE	0 VA	--	--	--			--
9	SPACE	0 VA	--	--	--			--
10	SPACE	0 VA	--	--	--			--
11	SPACE	0 VA	--	--	--			--
12	SPACE	0 VA	--	--	--			--
		TOTAL LOAD	**ESTIMATED LOAD**					
	TOTAL CONN. LOAD:	3418 kVA	1374 kVA					
	TOTAL AMPS:	9488 A	3813 A					

Notes:

SWITCHBOARD: H-MSB-1

LOCATION:		**VOLTS:**	480/277 Wye	**MAINS TYPE:**	3000 A COPPER BUS
FED FROM:	PAD MOUNTED COMED...	**PHASES:**	3	**MAINS RATING:**	3000 A
MOUNTING TYPE:	PAD MOUNTED	**WIRES:**	4	**MAIN CIRCUT...**	3000 A
ENCLOSURE:	NEMA 1	**A.I.C....**	65,000 AIC	**NEUTRAL BUS:**	100% RATED FULL COPPER WITH BUS...
OTHER:	PROVIDE 4" HIGH CONCRETE...			**GROUND BUS:**	100% RATED FULL COPPER

CCT NO.	DESCRIPTION	Load	FRAME SIZE	TRIP RATING	POLES	BREAKER TYPE	BREAKER RATING	NOTES
1	NH-MP-1	196800 VA	400 A	400 A	3	MCCB	80%	
2	XFMR-HP	193250 VA	400 A	350 A	3	MCCB	80%	
3	NH-POOL	0 VA	400 A	400 A	3	MCCB	80%	
4	NH-MP-7N	752700 VA	800 A	800 A	3	MCCB	80%	
5	NH-MP-7W	686540 VA	800 A	800 A	3	MCCB	80%	
6	NH-MP-7E	780790 VA	800 A	800 A	3	MCCB	80%	
7	SOLAR DISCONNECT...	0 VA	800 A	800 A	3	MCCB	80%	
8	ATS-LP	0 VA	100 A	70 A	3	MCCB	80%	
9	ATS-MP	62500 VA	225 A	225 A	3	MCCB	80%	
10	ATS-ELEV	138120 VA	225 A	225 A	3	MCCB	80%	
11	NH-MP-3N	155230 VA	225 A	225 A	3	MCCB	80%	
12	NH-MP-6N	78120 VA	225 A	225 A	3	MCCB	80%	
13	SURGE PROTECTION DEVICE	0 VA	--	60 A	3	MCCB	80%	
14	SPARE	0 VA	--	225 A	3			
15	SPARE	0 VA	--	225 A	3			
16	SPARE	0 VA	--	225 A	3			
		TOTAL LOAD	**ESTIMATED LOAD**					
	TOTAL CONN. LOAD:	3044 kVA	2142 kVA					
	TOTAL AMPS:	3661 A	2577 A					

Notes:

PANEL BOARD: NL-MP-1-2

Location:	MAIN ELEC ROOM	**Volts:**	120/208 Wye	**Mains Type:**	MLO
Supply From:	NL-MP-1-1	**Phases:**	3	**Mains Rating:**	400 A
Mounting:	SURFACE	**Wires:**	4		
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2	GUH-A	20 A	2	1695 VA	1695 VA	
3,4	GUH-A	20 A	2	1130 VA		1130 VA
5,6	GUH-A	20 A	2		1130 VA	1130 VA
7,8	GUH-A	20 A	2	1130 VA	1130 VA	
9,10	GUH-A	20 A	2	1130 VA		1130 VA
11,12	GUH-A	20 A	2		1130 VA	1130 VA
13,14	GUH-A	20 A	2	1130 VA	1130 VA	
15,16	GUH-A	20 A	2	1130 VA		1130 VA
17,18	GUH-A	20 A	2		1130 VA	1130 VA
19,20	GUH-A	20 A	2	1130 VA	1130 VA	
21,22	GUH-A	20 A	2	1130 VA		1130 VA
23	EF-2.4	15 A	1		400 VA	
24	EF-2.5	15 A	1			400 VA
25	OTHER POOL EQUIP 209	20 A	1	400 VA		
26,27	EUH-2.1	20 A	2		1250 VA	1250 VA
28,29	EUH-2.2	20 A	2	1250 VA	1250 VA	
30,31	EUH-2.3	20 A	2	1250 VA		1250 VA
32,33	EUH-2.4	20 A	2		1250 VA	1250 VA
34,35	EUH-2.5	20 A	2	1250 VA	1250 VA	
36,37	EUH-2.6	20 A	2	1250 VA		1250 VA
38,39	EUH-2.7	20 A	2		1250 VA	1250 VA
40,41	EUH-2.8	20 A	2	1250 VA	1250 VA	
42	SPARE	20 A	1			0 VA
			Total Load:	16255 VA	16375 VA	14560 VA
			Total Amps:	138 A	139 A	121 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
ELECTRICAL HEATING	20000 VA	100.00%	20000 VA	**Total Conn. Load:**	47190 VA
MOTOR/EQUIPT.	27190 VA	70.00%	19033 VA	**Total Est. Demand:**	39033 VA
				Total Conn. Current:	131 A
				Total Est. Demand...	108 A

PANEL BOARD: NL-MP-1-1

Location:	MAIN ELEC ROOM	**Volts:**	120/208 Wye	**Mains Type:**	MCB
Supply From:	XFMR-MP	**Phases:**	3	**Mains Rating:**	400 A
Mounting:	SURFACE	**Wires:**	4	**MCB Rating:**	400 A
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2	GUH-A	20 A	2	1695 VA	1695 VA	
3,4	GUH-A	20 A	2	1695 VA		1695 VA
5,6	GUH-A	20 A	2		1130 VA	1130 VA
7,8	GUH-A	20 A	2	1695 VA	1695 VA	
9,10	GUH-A	20 A	2	565 VA		565 VA
11,12	GUH-A	20 A	2		1130 VA	1130 VA
13,14	GUH-A	20 A	2	565 VA	565 VA	
15,16	GUH-A	20 A	2	565 VA		565 VA
17,18	EUH-1.1	20 A	2		1250 VA	1250 VA
19,20	EUH-1.2	20 A	2	1250 VA	1250 VA	
21,22	EUH-1.4	20 A	2	1250 VA		1250 VA
23,24	EUH-1.5	20 A	2		1250 VA	1250 VA
25,26	EUH-1.10	20 A	2	1250 VA	1250 VA	
27	EWH-3	45 A	1			3500 VA
28	EWH-3	45 A	1	3500 VA		
29	EWH-4	40 A	1		3000 VA	
30	EWH-3	45 A	1			3500 VA
31	EWH-3	45 A	1	3500 VA		
32,33	BSB-2.3, FCU-2.1	20 A	2		350 VA	350 VA
34,35	CU-1.1	30 A	2	2810 VA	2810 VA	
36,37	AC-1, AC-2	20 A	2	150 VA		150 VA
38,39	SPARE	20 A	2		0 VA	0 VA
40,41	SPARE	20 A	2	0 VA	0 VA	
42	SPARE	20 A	1			0 VA
			Total Load:	36715 VA	33750 VA	30865 VA
			Total Amps:	310 A	285 A	257 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
ELECTRICAL HEATING	32500 VA	100.00%	32500 VA	**Total Conn. Load:**	101330 VA
MOTOR/EQUIPT.	68830 VA	70.00%	48181 VA	**Total Est. Demand:**	80681 VA
				Total Conn. Current:	281 A
				Total Est. Demand...	224 A

PROVIDE FEED-THRU LUGS FOR PANEL NL-MP-1-2

SWITCHBOARD: L-MSB-N

LOCATION:		**VOLTS:**	120/208 Wye	**MAINS TYPE:**	4000 A COPPER BUS
FED FROM:	PAD MOUNTED COMED...	**PHASES:**	3	**MAINS RATING:**	4000 A
MOUNTING TYPE:	PAD MOUNTED	**WIRES:**	4	**MAIN CIRCUT...**	4000 A
ENCLOSURE:	NEMA 1	**A.I.C....**	100,000 AIC	**NEUTRAL BUS:**	100% RATED FULL COPPER WITH BUS...
OTHER:	PROVIDE 4" HIGH CONCRETE...			**GROUND BUS:**	100% RATED FULL COPPER

CCT NO.	DESCRIPTION	Load	FRAME SIZE	TRIP RATING	POLES	BREAKER TYPE	BREAKER RATING	NOTES
1	4000 A BUS DUCT NORTH	3238490...	4000 A	4000 A	3	MCCB	80%	
2	SURGE PROTECTION DEVICE	0 VA	--	60 A	3	MCCB	80%	
3	SPACE	0 VA	--	--	--			--
4	SPACE	0 VA	--	--	--			--
5	SPACE	0 VA	--	--	--			--
6	SPACE	0 VA	--	--	--			--
7	SPACE	0 VA	--	--	--			--
8	SPACE	0 VA	--	--	--			--
9	SPACE	0 VA	--	--	--			--
10	SPACE	0 VA	--	--	--			--
11	SPACE	0 VA	--	--	--			--
12	SPACE	0 VA	--	--	--			--
		TOTAL LOAD	**DEMAND LOAD**					
	TOTAL CONN. LOAD:	3238 kVA	1293 kVA					
	TOTAL AMPS:	8989 A	3588 A					

Notes:

SWITCHBOARD: L-MSB-W

LOCATION:		**VOLTS:**	120/208 Wye	**MAINS TYPE:**	4000 A COPPER BUS
FED FROM:	PAD MOUNTED COMED...	**PHASES:**	3	**MAINS RATING:**	4000 A
MOUNTING TYPE:	PAD MOUNTED	**WIRES:**	4	**MAIN CIRCUT...**	4000 A
ENCLOSURE:	NEMA 1	**A.I.C....**	100,000 AIC	**NEUTRAL BUS:**	100% RATED FULL COPPER WITH BUS...
OTHER:	PROVIDE 4" HIGH CONCRETE...			**GROUND BUS:**	100% RATED FULL COPPER

CCT NO.	DESCRIPTION	Load	FRAME SIZE	TRIP RATING	POLES	BREAKER TYPE	BREAKER RATING	NOTES
1	4000A BUS DUCT WEST	3220650...	4000 A	4000 A	3	MCCB	80%	
2	SURGE PROTECTION DEVICE	0 VA	--	60 A	3	MCCB	80%	
3	SPACE	0 VA	--	--	--			--
4	SPACE	0 VA	--	--	--			--
5	SPACE	0 VA	--	--	--			--
6	SPACE	0 VA	--	--	--			--
7	SPACE	0 VA	--	--	--			--
8	SPACE	0 VA	--	--	--			--
9	SPACE	0 VA	--	--	--			--
10	SPACE	0 VA	--	--	--			--
11	SPACE	0 VA	--	--	--			--
12	SPACE	0 VA	--	--	--			--
		TOTAL LOAD	**ESTIMATED LOAD**					
	TOTAL CONN. LOAD:	3221 kVA	1297 kVA					
	TOTAL AMPS:	8940 A	3601 A					

Notes:

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GARDEN STATION APARTMENTS
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PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E5.3

JONES & JONES ASSOCIATES / ARCHITECTS PC

PANEL BOARD: NH-MP-3N-2

LOCATION:	ELEC NORTH - 3	**VOLTS:**	480/277 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD_CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	225 A	**GROUND BUS:**	STANDARD_CU
ENCLOSURE:	NEMA 1	**WIRES:**	4				
FED FROM:	NH-MP-3N-1	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	EF-2.1	15 A	3	1330 VA	1330 VA		3	15 A	EF-2.2	2
3	--	--	--		1330 VA	1330 VA	--	--	--	4
5	--	--	--			1330 VA	1330 VA	--	--	6
7	EF-2.3	15 A	3	1330 VA	1000 VA		3	15 A	CUH-2.1	8
9	--	--	--		1330 VA	1000 VA	--	--	--	10
11	--	--	--			1330 VA	1000 VA	--	--	12
13	CUH-2.2	15 A	3	1000 VA	5840 VA		3	25 A	CU-2.1	14
15	--	--	--		1000 VA	5840 VA	--	--	--	16
17	--	--	--			1000 VA	5840 VA	--	--	18
19	CU-2.2	40 A	3	8610 VA	8610 VA		3	40 A	CU-2.2	20
21	--	--	--		8610 VA	8610 VA	--	--	--	22
23	--	--	--			8610 VA	8610 VA	--	--	24
25	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	26
27	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	29050 VA	29050 VA	29050 VA				
			TOTAL AMPS:	105 A	105 A	105 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
ELECTRICAL HEATING	6000 VA	100.00%	6000 VA	**TOTAL CONNECTED...**	87150 VA
MOTOR/EQUIPT.	81150 VA	70.00%	56805 VA	**TOTAL EST. DEMAND:**	62805 VA
				TOTAL CONN.:	105 A
				TOTAL EST. DEMAND:	76 A

PANEL BOARD: NH-MP-3N-1

LOCATION:	ELEC NORTH - 3	**VOLTS:**	480/277 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD_CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	225 A	**GROUND BUS:**	STANDARD_CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	225 A		
FED FROM:	H-MSB-1	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	ERV-3.1	15 A	3	2170 VA	2170 VA		3	15 A	ERV-3.2	2
3	--	--	--		2170 VA	2170 VA	--	--	--	4
5	--	--	--			2170 VA	2170 VA	--	--	6
7	ERV-3.3	15 A	3	2170 VA	2170 VA		3	15 A	ERV-3.4	8
9	--	--	--		2170 VA	2170 VA	--	--	--	10
11	--	--	--			2170 VA	2170 VA	--	--	12
13	CUH-3.1	15 A	3	1667 VA	1667 VA		3	15 A	CUH-3.3	14
15	--	--	--		1667 VA	1667 VA	--	--	--	16
17	--	--	--			1667 VA	1667 VA	--	--	18
19	ERV-4.1	15 A	3	2170 VA	2170 VA		3	15 A	ERV-4.2	20
21	--	--	--		2170 VA	2170 VA	--	--	--	22
23	--	--	--			2170 VA	2170 VA	--	--	24
25	ERV-4.3	15 A	3	2170 VA	2170 VA		3	15 A	ERV-4.4	26
27	--	--	--		2170 VA	2170 VA	--	--	--	28
29	--	--	--			2170 VA	2170 VA	--	--	30
31	EWH-2	15 A	3	2000 VA	0 VA		1	20 A	SPARE	32
33	--	--	--		2000 VA	0 VA	1	20 A	SPARE	34
35	--	--	--			2000 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	51743 VA	51743 VA	51743 VA				
			TOTAL AMPS:	187 A	187 A	187 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
ELECTRICAL HEATING	16000 VA	100.00%	16000 VA	**TOTAL CONNECTED...**	155230 VA
MOTOR/EQUIPT.	139230 VA	70.00%	97461 VA	**TOTAL EST. DEMAND:**	113461 VA
				TOTAL CONN.:	187 A
				TOTAL EST. DEMAND:	136 A

PROVIDE FEED-THRU LUGS FOR PANEL NH-MP-3N-2

PANEL BOARD: NH-POOL

Location:	POOL EQUIPMENT ROOM	**Volts:**	480/277 Wye	**Mains Type:**	MCB
Supply From:	H-MSB-1	**Phases:**	3	**Mains Rating:**	400 A
Mounting:	SURFACE	**Wires:**	4	**MCB Rating:**	400 A
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	XFMR-POOL	70 A	3	0 VA	0 VA	0 VA
4	SPARE	20 A	1	0 VA		
5	SPARE	20 A	1		0 VA	
6	SPARE	20 A	1			0 VA
7	SPARE	20 A	1	0 VA		
8	SPARE	20 A	1		0 VA	
9	SPARE	20 A	1			0 VA
10	SPARE	20 A	1	0 VA		
11	SPARE	20 A	1		0 VA	
12	SPARE	20 A	1			0 VA
13	SPARE	20 A	1	0 VA		
14	SPARE	20 A	1		0 VA	
15	SPARE	20 A	1			0 VA
16	SPARE	20 A	1	0 VA		
17	SPARE	20 A	1		0 VA	
18	SPARE	20 A	1			0 VA
19	SPARE	20 A	1	0 VA		
20	SPARE	20 A	1		0 VA	
21	SPARE	20 A	1			0 VA
		Total Load:		0 VA	0 VA	0 VA
		Total Amps:		0 A	0 A	0 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand...	0 A

PANEL BOARD: NH-MP-6N

LOCATION:	ELEC NORTH - 6	**VOLTS:**	480/277 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD_CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	225 A	**GROUND BUS:**	STANDARD_CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	225 A		
FED FROM:	H-MSB-1	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	ERV-5.1	15 A	3	2170 VA	2170 VA		3	15 A	ERV-5.2	2
3	--	--	--		2170 VA	2170 VA	--	--	--	4
5	--	--	--			2170 VA	2170 VA	--	--	6
7	ERV-5.3	15 A	3	2170 VA	2170 VA		3	15 A	ERV-5.4	8
9	--	--	--		2170 VA	2170 VA	--	--	--	10
11	--	--	--			2170 VA	2170 VA	--	--	12
13	ERV-6.1	15 A	3	2170 VA	2170 VA		3	15 A	ERV-6.2	14
15	--	--	--		2170 VA	2170 VA	--	--	--	16
17	--	--	--			2170 VA	2170 VA	--	--	18
19	ERV-6.3	15 A	3	2170 VA	2170 VA		3	15 A	ERV-6.4	20
21	--	--	--		2170 VA	2170 VA	--	--	--	22
23	--	--	--			2170 VA	2170 VA	--	--	24
25	ERV-7.1	15 A	3	2170 VA	2170 VA		3	15 A	ERV-7.2	26
27	--	--	--		2170 VA	2170 VA	--	--	--	28
29	--	--	--			2170 VA	2170 VA	--	--	30
31	ERV-7.3	15 A	3	2170 VA	2170 VA		3	15 A	ERV-7.4	32
33	--	--	--		2170 VA	2170 VA	--	--	--	34
35	--	--	--			2170 VA	2170 VA	--	--	36
37	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	26040 VA	26040 VA	26040 VA				
			TOTAL AMPS:	94 A	94 A	94 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
MOTOR/EQUIPT.	78120 VA	70.00%	54684 VA	**TOTAL CONNECTED...**	78120 VA
				TOTAL EST. DEMAND:	54684 VA
				TOTAL CONN.:	94 A
				TOTAL EST. DEMAND:	66 A

PANEL BOARD: NL-POOL

LOCATION:	POOL...	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD_CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	175 A	**GROUND BUS:**	STANDARD_CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	175 A		
FED FROM:	XFMR-POOL	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	2
3	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	4
5	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	8
9	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	10
11	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	14
15	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	16
17	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	20
21	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	26
27	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA	0 VA	0 VA				
			TOTAL AMPS:	0 A	0 A	0 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

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1 ADDENDUM 04.14.2021
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PERMIT REVISION 06.30.2021
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PROJECT ARCHITECT
RLJ JR
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JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E5.4

JONES & JONES ASSOCIATES / ARCHITECTS PC

PANEL BOARD: NH-MP-7N

Location:	ELEC NORTH - LEVEL 7	**Volts:**	480/277 Wye	**Mains Type:**	MCB
Supply From:	H-MSB-1	**Phases:**	3	**Mains Rating:**	800 A
Mounting:	SURFACE	**Wires:**	4	**MCB Rating:**	800 A
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	CU-A2	45 A	3	11017 VA	11017 VA	11017 VA
4,5,6	CU-C5	35 A	3	7777 VA	7777 VA	7777 VA
7,8,9	CU-C5	35 A	3	7777 VA	7777 VA	7777 VA
10,11,12	CU-C4	35 A	3	7777 VA	7777 VA	7777 VA
13,14,15	CU-C4	35 A	3	7777 VA	7777 VA	7777 VA
16,17,18	CU-B1	50 A	3	11987 VA	11987 VA	11987 VA
19,20,21	CU-F6	35 A	3	7777 VA	7777 VA	7777 VA
22,23,24	CU-C3	35 A	3	7777 VA	7777 VA	7777 VA
25,26,27	CU-C3	35 A	3	7777 VA	7777 VA	7777 VA
28,29,30	CU-C2	35 A	3	7777 VA	7777 VA	7777 VA
31,32,33	CU-C2	35 A	3	7777 VA	7777 VA	7777 VA
34,35,36	CU-A1	45 A	3	11017 VA	11017 VA	11017 VA
37,38,39	CU-C1	35 A	3	7777 VA	7777 VA	7777 VA
40,41,42	CU-C1	35 A	3	7777 VA	7777 VA	7777 VA
43,44,45	SF-8.3	15 A	3	2103 VA	2103 VA	2103 VA
46,47,48	EF-8.1	15 A	3	2103 VA	2103 VA	2103 VA
49,50,51	EF-8.5	15 A	3	443 VA	443 VA	443 VA
52,53,54	CU-F3	35 A	3	7777 VA	7777 VA	7777 VA
55,56,57	CU-A8	45 A	3	11017 VA	11017 VA	11017 VA
58,59,60	CU-F1	35 A	3	7777 VA	7777 VA	7777 VA
61,62,63	CU-E1	45 A	3	11017 VA	11017 VA	11017 VA
64,65,66	CU-E1.2	45 A	3	11017 VA	11017 VA	11017 VA
67,68,69	CU-E9	45 A	3	11017 VA	11017 VA	11017 VA
70,71,72	CU-E9.2	45 A	3	11017 VA	11017 VA	11017 VA
73,74,75	CU-F2	35 A	3	7777 VA	7777 VA	7777 VA
76,77,78	SF-8.1	15 A	3	2103 VA	2103 VA	2103 VA
79,80,81	EF-8.3	15 A	3	2103 VA	2103 VA	2103 VA
82,83,84	CU-E2	45 A	3	11017 VA	11017 VA	11017 VA
85,86,87	CU-E2	45 A	3	11017 VA	11017 VA	11017 VA
88,89,90	CU-E3	45 A	3	11017 VA	11017 VA	11017 VA
91,92,93	CU-E3	45 A	3	11017 VA	11017 VA	11017 VA
94,95,96	SPARE	20 A	3	0 VA	0 VA	0 VA
			Total Load:	250900 VA	250900 VA	250900 VA
			Total Amps:	906 A	906 A	906 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MOTOR/EQUIPT.	752700 VA	70.00%	526890 VA	**Total Conn. Load:**	752700 VA
				Total Est. Demand:	526890 VA
				Total Conn. Current:	905 A
				Total Est. Demand...	634 A

PANEL BOARD: NH-MP-7E

Location:	ELEC EAST - LEVEL 7	**Volts:**	480/277 Wye	**Mains Type:**	MCB
Supply From:	H-MSB-1	**Phases:**	3	**Mains Rating:**	800 A
Mounting:	SURFACE	**Wires:**	4	**MCB Rating:**	800 A
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	CU-A13	45 A	3	11017 VA	11017 VA	11017 VA
4,5,6	CU-B3	50 A	3	11987 VA	11987 VA	11987 VA
7,8,9	CU-E8	45 A	3	11017 VA	11017 VA	11017 VA
10,11,12	CU-E8	45 A	3	11017 VA	11017 VA	11017 VA
13,14,15	CU-B4	50 A	3	11987 VA	11987 VA	11987 VA
16,17,18	CU-F5	35 A	3	7777 VA	7777 VA	7777 VA
19,20,21	CU-A12	45 A	3	11017 VA	11017 VA	11017 VA
22,23,24	CU-B7	50 A	3	11987 VA	11987 VA	11987 VA
25,26,27	CU-E4	45 A	3	11017 VA	11017 VA	11017 VA
28,29,30	CU-E4	45 A	3	11017 VA	11017 VA	11017 VA
31,32,33	CU-A11	45 A	3	11017 VA	11017 VA	11017 VA
34,35,36	CU-E5	45 A	3	11017 VA	11017 VA	11017 VA
37,38,39	CU-E5	45 A	3	11017 VA	11017 VA	11017 VA
40,41,42	CU-E7	45 A	3	11017 VA	11017 VA	11017 VA
43,44,45	CU-E7	45 A	3	11017 VA	11017 VA	11017 VA
46,47,48	CU-A9	45 A	3	11017 VA	11017 VA	11017 VA
49,50,51	CU-B7	50 A	3	11987 VA	11987 VA	11987 VA
52,53,54	CU-B5	50 A	3	11987 VA	11987 VA	11987 VA
55,56,57	CU-A10	45 A	3	11017 VA	11017 VA	11017 VA
58,59,60	CU-E6	45 A	3	11017 VA	11017 VA	11017 VA
61,62,63	CU-E6	45 A	3	11017 VA	11017 VA	11017 VA
64,65,66	CU-B6	45 A	3	11987 VA	11987 VA	11987 VA
67,68,69	CU-F4	35 A	3	7777 VA	7777 VA	7777 VA
70,71,72	SF-8.4	15 A	3	2103 VA	2103 VA	2103 VA
73,74,75	EF-8.4	15 A	3	2103 VA	2103 VA	2103 VA
76,77,78	CUH-7.2	15 A	3	1667 VA	1667 VA	1667 VA
79,80,81	CUH-7.3	15 A	3	1667 VA	1667 VA	1667 VA
82,83,84	SPARE	20 A	3	0 VA	0 VA	0 VA
85,86,87	SPARE	20 A	3	0 VA	0 VA	0 VA
88,89,90	SPARE	20 A	3	0 VA	0 VA	0 VA
91,92,93	SPARE	20 A	3	0 VA	0 VA	0 VA
94,95,96	SPARE	20 A	3	0 VA	0 VA	0 VA
			Total Load:	260263 VA	260263 VA	260263 VA
			Total Amps:	940 A	940 A	940 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
ELECTRICAL HEATING	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	780790 VA
MOTOR/EQUIPT.	770790 VA	70.00%	539553 VA	**Total Est. Demand:**	549553 VA
				Total Conn. Current:	939 A
				Total Est. Demand...	661 A

PANEL BOARD: NH-MP-7W

Location:	ELEC WEST - LEVEL 7	**Volts:**	480/277 Wye	**Mains Type:**	MCB
Supply From:	H-MSB-1	**Phases:**	3	**Mains Rating:**	800 A
Mounting:	SURFACE	**Wires:**	4	**MCB Rating:**	800 A
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	CU-C13	35 A	3	7777 VA	7777 VA	7777 VA
4,5,6	CU-C13	35 A	3	7777 VA	7777 VA	7777 VA
7,8,9	CU-C12	35 A	3	7777 VA	7777 VA	7777 VA
10,11,12	CU-C12	35 A	3	7777 VA	7777 VA	7777 VA
13,14,15	CU-F6	35 A	3	7777 VA	7777 VA	7777 VA
16,17,18	CU-A7	45 A	3	11017 VA	11017 VA	11017 VA
19,20,21	CU-C11	35 A	3	7777 VA	7777 VA	7777 VA
22,23,24	CU-C11	35 A	3	7777 VA	7777 VA	7777 VA
25,26,27	CU-B2	50 A	3	11987 VA	11987 VA	11987 VA
28,29,30	CU-C10	35 A	3	7777 VA	7777 VA	7777 VA
31,32,33	CU-C10	35 A	3	7777 VA	7777 VA	7777 VA
34,35,36	CU-D1	35 A	3	11017 VA	11017 VA	11017 VA
37,38,39	CU-D1	35 A	3	11017 VA	11017 VA	11017 VA
40,41,42	CU-A6	45 A	3	11017 VA	11017 VA	11017 VA
43,44,45	CU-C9	35 A	3	7777 VA	7777 VA	7777 VA
46,47,48	CU-C9	35 A	3	7777 VA	7777 VA	7777 VA
49,50,51	CU-C8	35 A	3	7777 VA	7777 VA	7777 VA
52,53,54	CU-C8	35 A	3	7777 VA	7777 VA	7777 VA
55,56,57	CU-C7	35 A	3	7777 VA	7777 VA	7777 VA
58,59,60	CU-C7	35 A	3	7777 VA	7777 VA	7777 VA
61,62,63	EF-8.2	15 A	3	2103 VA	2103 VA	2103 VA
64,65,66	SF-8.2	15 A	3	2103 VA	2103 VA	2103 VA
67,68,69	CU-C6	35 A	3	7777 VA	7777 VA	7777 VA
70,71,72	CU-C6	35 A	3	7777 VA	7777 VA	7777 VA
73,74,75	CU-A5	45 A	3	11017 VA	11017 VA	11017 VA
76,77,78	CU-A4	45 A	3	11017 VA	11017 VA	11017 VA
79,80,81	CU-A3	45 A	3	11017 VA	11017 VA	11017 VA
82,83,84	CUH-7.4	15 A	3	1667 VA	1667 VA	1667 VA
85,86,87	CUH-7.1	15 A	3	1667 VA	1667 VA	1667 VA
88,89,90	SPARE	20 A	3	0 VA	0 VA	0 VA
91,92,93	SPARE	20 A	3	0 VA	0 VA	0 VA
94,95,96	SPARE	20 A	3	0 VA	0 VA	0 VA
			Total Load:	228847 VA	228847 VA	228847 VA
			Total Amps:	826 A	826 A	826 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
ELECTRICAL HEATING	10000 VA	100.00%	10000 VA	**Total Conn. Load:**	686540 VA
MOTOR/EQUIPT.	676540 VA	70.00%	473578 VA	**Total Est. Demand:**	483578 VA
				Total Conn. Current:	826 A
				Total Est. Demand...	582 A

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E5.5

JONES & JONES ASSOCIATES / ARCHITECTS PC

PANEL BOARD: NL-HP-DP

Location:		**Volts:**	120/208 Wye	**Mains Type:**	MCB
Supply From:	XFMR-HP	**Phases:**	3	**Mains Rating:**	800 A
Mounting:	SURFACE	**Wires:**	4	**MCB Rating:**	800 A
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	NL-RP-1-1	150 A	3	23160 VA	15960 VA	15020 VA
4,5,6	NL-RP-1-2	150 A	3	6080 VA	4140 VA	4820 VA
7,8,9	NL-RP-1-3	150 A	3	12440 VA	13645 VA	13805 VA
10,11,12	NL-RP-3E	225 A	3	18053 VA	11553 VA	17133 VA
13,14,15	NL-RP-5E	225 A	3	6120 VA	5400 VA	5760 VA
16,17,18	NL-RP-7E	225 A	3	7380 VA	6660 VA	6120 VA
19,20,21	NL-LP-1	150 A	3	0 VA	0 VA	0 VA
22,23,24	NL-LP-3N	150 A	3	0 VA	0 VA	0 VA
25,26,27	NL-LP-5N	150 A	3	0 VA	0 VA	0 VA
28,29,30	NL-LP-7N	150 A	3	0 VA	0 VA	0 VA
31,32,33	SPARE	225 A	3	0 VA	0 VA	0 VA
34,35,36	SPARE	225 A	3	0 VA	0 VA	0 VA
37	SPACE	--	--	0 VA		
38	SPACE	--	--		0 VA	
39	SPACE	--	--			0 VA
40	SPACE	--	--	0 VA		
41	SPACE	--	--		0 VA	
42	SPACE	--	--			0 VA
			Total Load:	73233 VA	57358 VA	62658 VA
			Total Amps:	617 A	478 A	529 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
ELECTRICAL HEATING	19600 VA	100.00%	19600 VA	**Total Conn. Load:**	193250 VA
RECEPTACLE	147640 VA	50.00%	73820 VA	**Total Est. Demand:**	112467 VA
MOTOR/EQUIPT.	17610 VA	70.00%	12327 VA	**Total Conn. Current:**	536 A
ELECTRIC RANGE	8400 VA	80.00%	6720 VA	**Total Est. Demand...**	312 A

PANEL BOARD: NL-RP-5E

LOCATION:	ELEC EAST - 5	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	225 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	225 A		
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	RECEPTACLE CORRIDOR - 4	20 A	1	1260 VA	360 VA		1	20 A	RECEPTACLE CORRIDOR - 4	2
3	RECEPTACLE CORRIDOR - 4	20 A	1		900 VA	360 VA	1	20 A	RECEPTACLE CORRIDOR - 4	4
5	RECEPTACLE CORRIDOR - 4	20 A	1			1440 VA	720 VA	1	20 A	RECEPTACLE CORRIDOR - 4	6
7	RECEPTACLE CORRIDOR - 4	20 A	1	720 VA	360 VA		1	20 A	RECEPTACLE CORRIDOR - 4	8
9	RECEPTACLE CORRIDOR - 4	20 A	1		720 VA	1080 VA	1	20 A	RECEPTACLE CORRIDOR - 4	10
11	RECEPTACLE CORRIDOR - 5	20 A	1			900 VA	900 VA	1	20 A	RECEPTACLE CORRIDOR - 5	12
13	RECEPTACLE CORRIDOR - 5	20 A	1	900 VA	720 VA		1	20 A	RECEPTACLE CORRIDOR - 5	14
15	RECEPTACLE CORRIDOR - 5	20 A	1		900 VA	720 VA	1	20 A	RECEPTACLE CORRIDOR - 5	16
17	RECEPTACLE CORRIDOR - 5	20 A	1			720 VA	360 VA	1	20 A	RECEPTACLE CORRIDOR - 5	18
19	RECEPTACLE CORRIDOR - 5	20 A	1	1080 VA	720 VA		1	20 A	RECEPTACLE CORRIDOR - 5	20
21	FCU-D - FLOOR 4	20 A	2		360 VA	360 VA	2	20 A	FCU-D - FLOOR 5	22
23	--	--	--			360 VA	360 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	26
27	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
		TOTAL LOAD:		6120 VA	5400 VA	5760 VA				
		TOTAL AMPS:		51 A	45 A	48 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
MOTOR/EQUIPT.	1440 VA	70.00%	1008 VA	**TOTAL CONNECTED...**	17280 VA
RECEPTACLE	15840 VA	50.00%	7920 VA	**TOTAL EST. DEMAND:**	8928 VA
				TOTAL CONN.:	48 A
				TOTAL EST. DEMAND:	25 A

PANEL BOARD: NL-RP-1-3

LOCATION:	MAIN ELEC ROOM	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MLO	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	150 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4				
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	RECEPTACLE TOILET	20 A	1	360 VA	1440 VA		1	20 A	RECEPTACLE FITNESS...	2
3	FITNESS EQUIPMENT	20 A	1			1800 VA	1800 VA	1	20 A	FITNESS EQUIPMENT	4
5	FITNESS EQUIPMENT	20 A	1				1800 VA	1800 VA	1	20 A	FITNESS EQUIPMENT	6
7	FITNESS EQUIPMENT	20 A	1	1800 VA	1800 VA				1	20 A	FITNESS EQUIPMENT	8
9	FITNESS EQUIPMENT	20 A	1			1800 VA	1800 VA		1	20 A	FITNESS EQUIPMENT	10
11	FITNESS EQUIPMENT	20 A	1					1800 VA	1800 VA	1	20 A	FITNESS EQUIPMENT	12
13	FITNESS EQUIPMENT	20 A	1	1800 VA	1800 VA				1	20 A	FITNESS EQUIPMENT	14
15	FITNESS EQUIPMENT	20 A	1			1800 VA	1800 VA		1	20 A	FITNESS EQUIPMENT	16
17	FITNESS EQUIPMENT	20 A	1					1800 VA	1800 VA	1	20 A	FITNESS EQUIPMENT	18
19	FISH TANK	20 A	2	520 VA	520 VA				2	20 A	FISH TANK	20
21	--	--	--			520 VA	520 VA		--	--	--	22
23	FISH TANK	20 A	1					600 VA	600 VA	1	20 A	FISH TANK	24
25	FISH TANK	20 A	1	600 VA	600 VA				1	20 A	FISH TANK	26
27	FISH TANK	20 A	1			600 VA	600 VA		1	20 A	FISH TANK	28
29	FISH TANK	20 A	1					600 VA	600 VA	1	20 A	FISH TANK	30
31	FISH TANK	20 A	1	600 VA	600 VA				1	20 A	FISH TANK	32
33	SPARE	20 A	1			0 VA	0 VA		1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA				1	20 A	SPARE	38
39	BSB-2.2, FCU-1.9, 1.10, 1.11,...	20 A	2			605 VA	0 VA		1	20 A	SPARE	40
41	--	--	--					605 VA	0 VA	1	20 A	SPARE	42
		TOTAL LOAD:		12440 VA		13645 VA			13805 VA				
		TOTAL AMPS:		104 A		115 A			117 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
MOTOR/EQUIPT.	1210 VA	70.00%	847 VA	**TOTAL CONNECTED...**	39890 VA
RECEPTACLE	38680 VA	50.00%	19340 VA	**TOTAL EST. DEMAND:**	20187 VA
				TOTAL CONN.:	111 A
				TOTAL EST. DEMAND:	56 A

PANEL BOARD: NL-RP-1-1

LOCATION:	MAIN ELEC ROOM	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MLO	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	150 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4				
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	RECEPTACLE ELEC	20 A	1	900 VA	360 VA		1	20 A	RECEPTACLE MECH/ELEC 298	2
3	RECEPTACLE ELEV...	20 A	1			1800 VA	180 VA	1	20 A	RECEPTACLE TOILET	4
5	RECEPTACLE GARAGE	20 A	1				1080 VA	1080 VA	1	20 A	RECEPTACLE GARAGE	6
7	RECEPTACLE GARAGE	20 A	1	1620 VA	540 VA				1	20 A	RECEPTACLE GARAGE	8
9	RECEPTACLE TRASH	20 A	1			1260 VA	540 VA		1	20 A	RECEPTACLE ELEV LOBBY	10
11	RECEPTACLE FIRE PUMP...	20 A	1					720 VA	540 VA	1	20 A	RECEPTACLE STORAGE	12
13	RECEPTACLE ELEVATOR...	20 A	1	720 VA	1080 VA				1	20 A	RECEPTACLE GARAGE -...	14
15	RECEPTACLE MAINTAINENCE	20 A	1			1080 VA	900 VA		1	20 A	RECEPTACLE GARAGE -...	16
17	RECEPTACLE POOL	20 A	1					360 VA	540 VA	1	20 A	RECEPTACLE ELEV LOBBY	18
19	RECEPTACLE GARAGE -...	20 A	1	900 VA	540 VA				1	20 A	RECEPTACLE STORAGE	20
21	RECEPTACLE STORAGE	20 A	1			360 VA	540 VA		1	20 A	RECEPTACLE STORAGE	22
23	RECEPTACLE DOG WASH	20 A	1					720 VA	180 VA	1	20 A	RECEPTACLE BIKE STORAGE...	24
25	EV CHARGER	40 A	2	3600 VA	3600 VA				2	40 A	EV CHARGER	26
27	--	--	--			3600 VA	3600 VA		--	--	--	28
29	EV CHARGER	40 A	2					3600 VA	3600 VA	2	40 A	EV CHARGER	30
31	--	--	--	3600 VA	3600 VA				--	--	--	32
33													34
35	TRASH COMPACTOR	25 A	3					2100 VA	500 VA	1	20 A	TRASH COMPACTOR...	36
37	--	--	--	2100 VA	0 VA				1	20 A	SPARE	38
39	--	--	--			2100 VA	0 VA		1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
		TOTAL LOAD:		23160 VA		15960 VA			15020 VA				
		TOTAL AMPS:		194 A		134 A			125 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
MOTOR/EQUIPT.	6800 VA	70.00%	4760 VA	**TOTAL CONNECTED...**	54140 VA
RECEPTACLE	47340 VA	50.00%	23670 VA	**TOTAL EST. DEMAND:**	28430 VA
				TOTAL CONN.:	150 A
				TOTAL EST. DEMAND:	79 A

PANEL BOARD: NL-RP-7E

LOCATION:	ELEC EAST - 7	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	225 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	225 A		
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	RECEPTACLE CORRIDOR - 6	20 A	1	720 VA	900 VA		1	20 A	RECEPTACLE CORRIDOR - 6	2
3	RECEPTACLE CORRIDOR - 6	20 A	1		900 VA	900 VA	1	20 A	RECEPTACLE CORRIDOR - 6	4
5	RECEPTACLE CORRIDOR - 6	20 A	1			900 VA	720 VA	1	20 A	RECEPTACLE CORRIDOR - 6	6
7	RECEPTACLE CORRIDOR - 6	20 A	1	720 VA	360 VA		1	20 A	RECEPTACLE CORRIDOR - 6	8
9	RECEPTACLE CORRIDOR - 6	20 A	1		720 VA	1080 VA	1	20 A	RECEPTACLE CORRIDOR - 6	10
11	RECEPTACLE CORRIDOR - 7	20 A	1			720 VA	900 VA	1	20 A	RECEPTACLE CORRIDOR - 7	12
13	RECEPTACLE CORRIDOR - 7	20 A	1	900 VA	900 VA		1	20 A	RECEPTACLE CORRIDOR - 7	14
15	RECEPTACLE CORRIDOR - 7	20 A	1		720 VA	720 VA	1	20 A	RECEPTACLE CORRIDOR - 7	16
17	RECEPTACLE CORRIDOR - 7	20 A	1			720 VA	360 VA	1	20 A	RECEPTACLE CORRIDOR - 7	18
19	RECEPTACLE CORRIDOR - 7	20 A	1	720 VA	1080 VA		1	20 A	RECEPTACLE CORRIDOR - 7	20
21	RECEPTACLE ROOF	20 A	1		360 VA	360 VA	1	20 A	RECEPTACLE ROOF	22
23	RECEPTACLE ROOF	20 A	1			540 VA	540 VA	1	20 A	RECEPTACLE ROOF	24
25	RECEPTACLE ROOF	20 A	1	360 VA	360 VA		1	20 A	RECEPTACLE ROOF	26
27	RECEPTACLE ROOF	20 A	1		540 VA	360 VA	2	20 A	FCU-D - FLOOR 6	28
29	FCU-D FLOOR 7	20 A	2			360 VA	360 VA	--	--	--	30
31	--	--	--	360 VA	0 VA				1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA				1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
		TOTAL LOAD:		7380 VA		6660 VA			6120 VA				
		TOTAL AMPS:		62 A		56 A			51 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
MOTOR/EQUIPT.	1440 VA	70.00%	1008 VA	**TOTAL CONNECTED...**	20160 VA
RECEPTACLE	18720 VA	50.00%	9360 VA	**TOTAL EST. DEMAND:**	10368 VA
				TOTAL CONN.:	56 A
				TOTAL EST. DEMAND:	29 A

PANEL BOARD: NL-RP-3E

LOCATION:	ELEC EAST - 3	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	225 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	225 A		
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	RECEPTACLE CORRIDOR - 3	20 A	1	1080 VA	1080 VA		1	20 A	RECEPTACLE CORRIDOR - 3	2
3	RECEPTACLE CORRIDOR - 3	20 A	1			720 VA	900 VA	1	20 A	RECEPTACLE CORRIDOR - 3	4
5	RECEPTACLE CORRIDOR - 3	20 A	1				1260 VA	1080 VA	1	20 A	RECEPTACLE CORRIDOR - 3	6
7	RECEPTACLE CORRIDOR - 3	20 A	1	1080 VA	1260 VA				1	20 A	RECEPTACLE CORRIDOR - 3	8
9	RECEPTACLE TOILET	20 A	1			360 VA	180 VA		1	20 A	REF	10
11	RECEPTACLE COMMUNITY...	20 A	1					1260 VA	360 VA	1	20 A	RECEPTACLE COMMUNITY...	12
13	RECEPTACLE COMMUNITY...	20 A	1	360 VA	900 VA				1	20 A	RECEPTACLE COMMUNITY...	14
15	RECEPTACLE COMMUNITY...	20 A	1			360 VA	720 VA		1	20 A	RECEPTACLE COMMUNITY...	16
17	ELECTRIC RANGE	50 A	2					4200 VA	1500 VA	1	20 A	MICROWAVE OVEN	18
19	--	--	--	4200 VA	180 VA				1	20 A	RECEPTACLE EXTERIOR	20
21	RECEPTACLE EXTERIOR	20 A	1			180 VA	180 VA		1	20 A	RECEPTACLE EXTERIOR	22
23	FCU-D - FLOOR 3	20 A	2					360 VA	180 VA	1	20 A	RECEPTACLE EXTERIOR	24
25	--	--	--	360 VA	1020 VA				2	15 A	FCU-3.1/FCU-3.2	26
27	RCP-1	15 A	1			400 VA	1020 VA		--	--	--	28
29	SAUNA	40 A	3					3267 VA	3267 VA	3	40 A	SAUNA	30
31	--	--	--	3267 VA	3267 VA				--	--	--	32
33	--	--	--			3267 VA	3267 VA		--	--	--	34
35	EF-3.1	20 A	1					400 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA				1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
		TOTAL LOAD:		18053 VA		11553 VA			17133 VA				
		TOTAL AMPS:		158 A		96 A			150 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
ELECTRICAL HEATING	19600 VA	100.00%	19600 VA	**TOTAL CONNECTED...**	46740 VA
MOTOR/EQUIPT.	3560 VA	70.00%	2492 VA	**TOTAL EST. DEMAND:**	36402 VA
RECEPTACLE	15180 VA	50.00%	7590 VA	**TOTAL CONN.:**	130 A
ELECTRIC RANGE	8400 VA	80.00%	6720 VA	**TOTAL EST. DEMAND:**	101 A

PANEL BOARD: NL-RP-1-2

LOCATION:	MAIN ELEC ROOM	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MLO	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	150 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4				
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	RECEPTACLE LOUNGE	20 A	1	540 VA	720 VA		1	20 A	RECEPTACLE LOUNGE	2
3	RECEPTACLE OFFICE	20 A	1			900 VA	900 VA	1	20 A	RECEPTACLE CONFERENCE	4
5	RECEPTACLE LOUNGE/PART...	20 A	1				720 VA	360 VA	1	20 A	RECEPTACLE LOUNGE/PART...	6
7	RECEPTACLE LOUNGE/PART...	20 A	1	1080 VA	1260 VA				1	20 A	RECEPTACLE LOUNGE/PART...	8
9	SPARE	20 A	1		0 VA	720 VA			1	20 A	RECEPTACLE AMENITY SPACE	10
11	RECEPTACLE MEDIA ROOM	20 A	1				360 VA	540 VA	1	20 A	RECEPTACLE TOILET/JANITOR	12
13	RECEPTACLE FIRE PLACE...	20 A	1	180 VA	360 VA				1	20 A	RECEPTACLE FIRE PLACE...	14
15	RECEPTACLE FIRE PLACE...	20 A	1			360 VA	540 VA		1	20 A	RECEPTACLE FIRE PLACE...	16
17	RECEPTACLE WE WORK...	20 A	1					1080 VA	180 VA	1	20 A	ELECTRIC WATER COOLERR	18
19	RECEPTACLE WE WORK...	20 A	1	360 VA	0 VA				1	20 A	SPARE	20
21	RECEPTACLE WE WORK...	20 A	1			360 VA	360 VA		1	20 A	RECEPTACLE MEDIA ROOM	22
23	BSB-2.1, FCU-1.1, 1.2, 1.3, 1.4,...	20 A	2					1580 VA	0 VA	1	20 A	SPARE	24
25	--	--	--	1580 VA	0 VA				1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA		1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA				1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA				1	20 A	SPARE	38
39	SPARE	20 A	1		0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
		TOTAL LOAD:		6080 VA		4140 VA			4820 VA				
		TOTAL AMPS:		52 A		35 A			41 A				

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
MOTOR/EQUIPT.	3160 VA	70.00%	2212 VA	**TOTAL CONNECTED...**	15040 VA
RECEPTACLE	11880 VA	50.00%	5940 VA	**TOTAL EST. DEMAND:**	8152 VA
				TOTAL CONN.:	42 A
				TOTAL EST. DEMAND:	23 A

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
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PANEL BOARD: NL-LP-5N

LOCATION:	ELEC NORTH - 5	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	150 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	150 A		
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4
5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA					
			TOTAL AMPS:	0 A		0 A		0 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

PANEL BOARD: NL-LP-1

LOCATION:	MAIN ELEC ROOM	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MLO	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	150 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**			
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4
5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA					
			TOTAL AMPS:	0 A		0 A		0 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

PANEL BOARD: NL-LP-7N

LOCATION:	ELEC NORTH - 7	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	150 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	150 A		
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4
5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA					
			TOTAL AMPS:	0 A		0 A		0 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

PANEL BOARD: NL-LP-3N

LOCATION:	ELEC NORTH - 3	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	150 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	150 A		
FED FROM:	NL-HP-DP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4
5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA					
			TOTAL AMPS:	0 A		0 A		0 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

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JONES & JONES ASSOCIATES / ARCHITECTS PC

PANEL BOARD: UNIT LOAD CENTER (STUDIO)

LOCATION:	STUDIO UNIT	**VOLTS:**	120/208 Single	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	RECECSSED	**PHASES:**	1	**MAINS...**	125 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	3	**MCB RATING:**	125 A		
FED FROM:	RMB-3N	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A		B		POLES	TRIP	Load Name	CCT NO.
1	REF	20 A	1	180 VA	4200 VA			2	50 A	ELECTRIC RANGE	2
3	KITCHEN RECEPTACLES	20 A	1			720 VA	4200 VA	--	--	--	4
5	MICROWAVE OVEN	20 A	1	1500 VA	1080 VA			1	20 A	LIVING ROOM RECEPTACLES	6
7	DISHWASHER	20 A	1			1100 VA	1000 VA	1	20 A	CLOTHES WASHER	8
9	STRUCTURED MEDIA ENCLOSURE	20 A	1	180 VA	180 VA			1	20 A	BATHROOM RECEPTACLE	10
11	CLOTHES DRYER (NOTE 1)	30 A	2			2700 VA	540 VA	1	20 A	BEDROOM RECEPTACLE	12
13	--	--	--	2700 VA	510 VA			2	15 A	FCU	14
15	BALCONY RECEPTACLE	20 A	1			180 VA	510 VA	--	--	--	16
17	EWH-1	30 A	2	2250 VA	500 VA			1	20 A	LIGHTING	18
19	--	--	--			2250 VA	1200 VA	1	20 A	GARABGE DISPOSAL	20
21	RECEPTACLE LIVING SPACE M M02	20 A	1	180 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPACE	--	--	0 VA	0 VA			--	--	SPACE	26
27	SPACE	--	--			0 VA	0 VA	--	--	SPACE	28
29	SPACE	--	--	0 VA	0 VA			--	--	SPACE	30
31	SPACE	--	--			0 VA	0 VA	--	--	SPACE	32
			TOTAL LOAD:	13460 VA		14400 VA					
			TOTAL AMPS:	129 A		137 A					

LOAD CLASSIFICATIONS:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	500 VA	100.00%	500 VA	**TOTAL CONNECTED LOAD:**	27860 VA
MOTOR/EQUIPT.	5520 VA	70.00%	3864 VA	**TOTAL EST. DEMAND:**	20504 VA
RECEPTACLE	8040 VA	50.00%	4020 VA	**TOTAL CONN.:**	134 A
ELECTRIC RANGE	8400 VA	80.00%	6720 VA	**TOTAL EST. DEMAND:**	99 A
ELECTRIC DRYER	5400 VA	100.00%	5400 VA		

NOTE 1: PROVIDE GFI PROTECTED CIRCUIT BREAKER

PANEL BOARD: UNIT LOAD CENTER (1BR)

LOCATION:	1 BR UNIT	**VOLTS:**	120/208 Single	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	RECESSED	**PHASES:**	1	**MAINS...**	125 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	3	**MCB RATING:**	125 A		
FED FROM:	RMB-3N	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A		B		POLES	TRIP	Load Name	CCT NO.
1	REF	20 A	1	180 VA	4200 VA			2	50 A	ELECTRIC RANGE	2
3	KITCHEN RECEPTACLES	20 A	1			720 VA	4200 VA	--	--	--	4
5	MICROWAVE OVEN	20 A	1	1500 VA	1080 VA			1	20 A	LIVING ROOM RECEPTACLES	6
7	DISHWASHER	20 A	1			1100 VA	1000 VA	1	20 A	CLOTHES WASHER	8
9	STRUCTURED MEDIA ENCLOSURE	20 A	1	180 VA	180 VA			1	20 A	BATHROOM RECEPTACLE	10
11	CLOTHES DRYER (NOTE 1)	30 A	2			2700 VA	720 VA	1	20 A	BEDROOM RECEPTACLE	12
13	--	--	--	2700 VA	510 VA			2	15 A	FCU	14
15	BALCONY RECEPTACLE	20 A	1			180 VA	510 VA	--	--	--	16
17	EWH-1	30 A	2	2250 VA	500 VA			1	20 A	LIGHTING	18
19	--	--	--			2250 VA	1200 VA	1	20 A	GARABGE DISPOSAL	20
21	FCU RECEPTACLE	20 A	1	180 VA	0 VA			1	20 A	SPARE	22
23	SPACE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPACE	--	--	0 VA	0 VA			--	--	SPACE	26
27	SPACE	--	--			0 VA	0 VA	--	--	SPACE	28
29	SPACE	--	--	0 VA	0 VA			--	--	SPACE	30
31	SPACE	--	--			0 VA	0 VA	--	--	SPACE	32
			TOTAL LOAD:	13460 VA		14580 VA					
			TOTAL AMPS:	129 A		139 A					

LOAD CLASSIFICATIONS:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	500 VA	100.00%	500 VA	**TOTAL CONNECTED LOAD:**	28040 VA
MOTOR/EQUIPT.	5520 VA	70.00%	3864 VA	**TOTAL EST. DEMAND:**	20594 VA
RECEPTACLE	8220 VA	50.00%	4110 VA	**TOTAL CONN.:**	135 A
ELECTRIC RANGE	8400 VA	80.00%	6720 VA	**TOTAL EST. DEMAND:**	99 A
ELECTRIC DRYER	5400 VA	100.00%	5400 VA		

NOTE 1: PROVIDE GFI PROTECTED CIRCUIT BREAKER

PANEL BOARD: UNIT LOAD CENTER (1BR+OFFICE)

LOCATION:	1 BR + OFFICE UNIT	**VOLTS:**	120/208 Single	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	RECESSED	**PHASES:**	1	**MAINS...**	125 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	3	**MCB RATING:**	125 A		
FED FROM:	RMB-3N	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A		B		POLES	TRIP	Load Name	CCT NO.
1	REF	20 A	1	180 VA	4200 VA			2	50 A	ELECTRIC RANGE	2
3	KITCHEN RECEPTACLES	20 A	1			720 VA	4200 VA	--	--	--	4
5	MICROWAVE OVEN	20 A	1	1500 VA	1080 VA			1	20 A	LIVING ROOM RECEPTACLES	6
7	DISHWASHER	20 A	1			1100 VA	1000 VA	1	20 A	CLOTHES WASHER	8
9	STRUCTURED MEDIA ENCLOSURE	20 A	1	180 VA	180 VA			1	20 A	BATHROOM RECEPTACLE	10
11	CLOTHES DRYER (NOTE 1)	30 A	2			2700 VA	900 VA	1	20 A	BEDROOM RECEPTACLE	12
13	--	--	--	2700 VA	180 VA			1	20 A	RECEPTACLE	14
15	OFFICE RECEPTACLE	20 A	1			720 VA	2250 VA	2	30 A	EWH-1	16
17	FCU	15 A	2	510 VA	2250 VA			--	--	--	18
19	--	--	--			510 VA	500 VA	1	20 A	LIGHTING	20
21	GARABGE DISPOSAL	20 A	1	1200 VA	180 VA			1	20 A	FCU RECEPTACLE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPACE	--	--	0 VA	0 VA			--	--	SPACE	26
27	SPACE	--	--			0 VA	0 VA	--	--	SPACE	28
29	SPACE	--	--	0 VA	0 VA			--	--	SPACE	30
31	SPACE	--	--			0 VA	0 VA	--	--	SPACE	32
			TOTAL LOAD:	14340 VA		14600 VA					
			TOTAL AMPS:	138 A		140 A					

LOAD CLASSIFICATIONS:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	500 VA	100.00%	500 VA	**TOTAL CONNECTED LOAD:**	28940 VA
MOTOR/EQUIPT.	5520 VA	70.00%	3864 VA	**TOTAL EST. DEMAND:**	21044 VA
RECEPTACLE	9120 VA	50.00%	4560 VA	**TOTAL CONN.:**	139 A
ELECTRIC RANGE	8400 VA	80.00%	6720 VA	**TOTAL EST. DEMAND:**	101 A
ELECTRIC DRYER	5400 VA	100.00%	5400 VA		

NOTE 1: PROVIDE GFI PROTECTED CIRCUIT BREAKER

PANEL BOARD: UNIT LOAD CENTER (2BR)

LOCATION:	2 BR UNIT	**VOLTS:**	120/208 Single	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	RECESSED	**PHASES:**	1	**MAINS...**	125 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	3	**MCB RATING:**	125 A		
FED FROM:	RMB-3W	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A		B		POLES	TRIP	Load Name	CCT NO.
1	REF	20 A	1	180 VA	4200 VA			2	50 A	ELECTRIC RANGE	2
3	KITCHEN RECEPTACLES	20 A	1			900 VA	4200 VA	--	--	--	4
5	MICROWAVE OVEN	20 A	1	1500 VA	1260 VA			1	20 A	LIVING ROOM RECEPTACLES	6
7	DISHWASHER	20 A	1			1100 VA	1000 VA	1	20 A	CLOTHES WASHER	8
9	STRUCTURED MEDIA ENCLOSURE	20 A	1	180 VA	180 VA			1	20 A	BATHROOM RECEPTACLE	10
11	CLOTHES DRYER (NOTE 1)	30 A	2			2700 VA	720 VA	1	20 A	BEDROOM RECEPTACLE	12
13	--	--	--	2700 VA	720 VA			1	20 A	BEDROOM RECEPTACLE	14
15	BATHROOM RECEPTACLE	20 A	1			180 VA	510 VA	2	15 A	FCU	16
17	BALCONY RECEPTACLE	20 A	1	180 VA	510 VA			--	--	--	18
19	EWH-1	30 A	2			2250 VA	750 VA	1	20 A	LIGHTING	20
21	--	--	--	2250 VA	1200 VA			1	20 A	GARABGE DISPOSAL	22
23	FCU RECEPTACLE	20 A	1			180 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27	SPACE	--	--			0 VA	0 VA	--	--	SPACE	28
29	SPACE	--	--	0 VA	0 VA			--	--	SPACE	30
31	SPACE	--	--			0 VA	0 VA	--	--	SPACE	32
			TOTAL LOAD:	15060 VA		14490 VA					
			TOTAL AMPS:	144 A		139 A					

LOAD CLASSIFICATIONS:	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	750 VA	100.00%	750 VA	**TOTAL CONNECTED LOAD:**	29550 VA
MOTOR/EQUIPT.	5520 VA	70.00%	3864 VA	**TOTAL EST. DEMAND:**	21474 VA
RECEPTACLE	9480 VA	50.00%	4740 VA	**TOTAL CONN.:**	142 A
ELECTRIC RANGE	8400 VA	80.00%	6720 VA	**TOTAL EST. DEMAND:**	103 A
ELECTRIC DRYER	5400 VA	100.00%	5400 VA		

NOTE 1: PROVIDE GFI PROTECTED CIRCUIT BREAKER

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JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E5.8

JONES & JONES ASSOCIATES / ARCHITECTS PC

PANEL BOARD: GDP

Location:	ATS ROOM	**Volts:**	480/277 Wye	**Mains Type:**	MCB
Supply From:	EM GENERATOR	**Phases:**	3	**Mains Rating:**	400 A
Mounting:	SURFACE	**Wires:**	4	**MCB Rating:**	400 A
Enclosure:	NEMA 1				

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	ATS-LP	70 A	3	0 VA	0 VA	0 VA
4,5,6	ATS-MP	225 A	3	19965 VA	20444 VA	22127 VA
7,8,9	ATS-ELEV	225 A	3	46533 VA	46153 VA	45433 VA
10,11,12	SURGE PROTECTION DEVICE	60 A	3	0 VA	0 VA	0 VA
13,14,15	SPARE	225 A	3	0 VA	0 VA	0 VA
16	SPACE	--	--	0 VA		
17	SPACE	--	--		0 VA	
18	SPACE	--	--			0 VA
19	SPACE	--	--	0 VA		
20	SPACE	--	--		0 VA	
21	SPACE	--	--			0 VA
			Total Load:	66463 VA	66563 VA	67560 VA
			Total Amps:	240 A	240 A	244 A

Load Classification	Connected Load	Demand Factor	Estimated Demand
LIGHTING	400 VA	100.00%	400 VA
RECEPTACLE	720 VA	50.00%	360 VA
MOTOR/EQUIPT.	199456 VA	70.00%	139619 VA

Panel Totals	
Total Conn. Load:	200576 VA
Total Est. Demand:	140379 VA
Total Conn. Current:	241 A
Total Est. Demand...	169 A

PANEL BOARD: EL-LP-6E

LOCATION:	ELEC EAST - 6	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	60 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	60 A		
FED FROM:	EL-LP-1	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	NAC - LEVEL 5	20 A	1	0 VA	0 VA		1	20 A	NAC - LEVEL 6	2
3	NAC - LEVEL 7	20 A	1			0 VA	0 VA	1	20 A	SPARE	4
5	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	10
11	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	16
17	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA		
			TOTAL AMPS:	0 A		0 A		0 A		

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

PANEL BOARD: EL-LP-3E

LOCATION:	ELEC EAST - 3	**VOLTS:**	3 120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	60 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	60 A		
FED FROM:	EL-LP-1	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	NAC - LEVEL 3	20 A	1	0 VA	0 VA		1	20 A	NAC - LEVEL 4	2
3	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	4
5	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	10
11	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	16
17	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA		
			TOTAL AMPS:	0 A		0 A		0 A		

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

PANEL BOARD: EL-LP-1

LOCATION:	ATS ROOM	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	100 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	100 A		
FED FROM:	XFMR-ELP	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	EL-LP-3W	60 A	3	0 VA	0 VA		3	60 A	EL-LP-3E	2
3	--	--	--			0 VA	0 VA	--	--	--	4
5	--	--	--			0 VA	0 VA	--	--	--	6
7	EL-LP-6W	60 A	3	0 VA	0 VA			3	60 A	EL-LP-6E	8
9	--	--	--			0 VA	0 VA	--	--	--	10
11	--	--	--			0 VA	0 VA	--	--	--	12
13	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	16
17	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA		
			TOTAL AMPS:	0 A		0 A		0 A		

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

PANEL BOARD: EL-LP-6W

LOCATION:	ELEC WEST - 6	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	60 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	60 A		
FED FROM:	EL-LP-1	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	4
5	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	10
11	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	16
17	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA		
			TOTAL AMPS:	0 A		0 A		0 A		

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

PANEL BOARD: EL-LP-3W

LOCATION:	ELEC WEST - 3	**VOLTS:**	120/208 Wye	**MAINS TYPE:**	MCB	**NEUTRAL BUS:**	STANDARD, CU
MOUNTING TYPE:	SURFACE	**PHASES:**	3	**MAINS RATING:**	60 A	**GROUND BUS:**	STANDARD, CU
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MCB RATING:**	60 A		
FED FROM:	EL-LP-1	**MCB TYPE:**	COPPER				

CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.
1	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	4
5	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	10
11	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	16
17	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	22
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	0 VA		0 VA		0 VA		
			TOTAL AMPS:	0 A		0 A		0 A		

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONNECTED...	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

REVISION DATE
ISSUE FOR PERMIT 04.06.2021
PERMIT REVISION 06.30.2021
1 -

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E5.9

JONES & JONES ASSOCIATES / ARCHITECTS PC

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PANEL BOARD: NL-RT-1

LOCATION:	RETAIL 5		**VOLTS:**	120/208 Wye		**MAINS TYPE:**	MCB		**NEUTRAL BUS:**	STANDARD, CU		
MOUNTING TYPE:	SURFACE		**PHASES:**	3		**MAINS RATING:**	225 A		**GROUND BUS:**	STANDARD, CU		
ENCLOSURE:	NEMA 1		**WIRES:**	4		**MCB RATING:**	225 A					
FED FROM:	RETAIL...		**MCB TYPE:**	COPPER								

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	EUH-1.6	20 A	2	1250 VA	0 VA					1	20 A	SPARE	2
3	--	--	--			1250 VA	0 VA			1	20 A	SPARE	4
5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	1250 VA		1250 VA		0 VA					
			TOTAL AMPS:	12 A		12 A		0 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
ELECTRICAL HEATING	2500 VA	100.00%	2500 VA	**TOTAL CONNECTED...**	2500 VA
				TOTAL EST. DEMAND:	2500 VA
				TOTAL CONN.:	7 A
				TOTAL EST. DEMAND:	7 A

PANEL BOARD: EH-MP-1

LOCATION:	ATS ROOM		**VOLTS:**	480/277 Wye		**MAINS TYPE:**	MCB		**NEUTRAL BUS:**	STANDARD, CU		
MOUNTING TYPE:	SURFACE		**PHASES:**	3		**MAINS RATING:**	225 A		**GROUND BUS:**	STANDARD, CU		
ENCLOSURE:	NEMA 1		**WIRES:**	4		**MCB RATING:**	225 A					
FED FROM:	ATS-MP		**MCB TYPE:**	COPPER								

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	BP-1	45 A	3	7473 VA	2103 VA					3	15 A	SPF-8.4	2
3	--	--	--			7473 VA	2103 VA			--	--	--	4
5	--	--	--					7473 VA	2103 VA	--	--	--	6
7	SPF-8.1	15 A	3	2103 VA	2103 VA					3	15 A	SPF-8.2	8
9	--	--	--			2103 VA	2103 VA			--	--	--	10
11	--	--	--					2103 VA	2103 VA	--	--	--	12
13	SPF-8.3	15 A	3	2103 VA	0 VA					3	20 A	SPARE	14
15	--	--	--			2103 VA	0 VA			--	--	--	16
17	--	--	--					2103 VA	0 VA	--	--	--	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPACE	--	--	0 VA	0 VA					--	--	SPACE	26
27	SPACE	--	--			0 VA	0 VA			--	--	SPACE	28
29	SPACE	--	--					0 VA	0 VA	--	--	SPACE	30
31	SPACE	--	--	0 VA	0 VA					--	--	SPACE	32
33	SPACE	--	--			0 VA	0 VA			--	--	SPACE	34
35	SPACE	--	--					0 VA	0 VA	--	--	SPACE	36
37	SPACE	--	--	0 VA	4270 VA					3	50 A	XFMR-EMP	38
39	SPACE	--	--			0 VA	4725 VA			--	--	--	40
41	SPACE	--	--					0 VA	6240 VA	--	--	--	42
			TOTAL LOAD:	19965 VA		20444 VA		22127 VA					
			TOTAL AMPS:	72 A		74 A		80 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
MOTOR/EQUIPT.	62500 VA	70.00%	43750 VA	**TOTAL CONNECTED...**	62500 VA
				TOTAL EST. DEMAND:	43750 VA
				TOTAL CONN.:	75 A
				TOTAL EST. DEMAND:	53 A

PANEL BOARD: EH-ELEV

LOCATION:	ATS ROOM		**VOLTS:**	480/277 Wye		**MAINS TYPE:**	MCB		**NEUTRAL BUS:**	STANDARD, CU		
MOUNTING TYPE:	SURFACE		**PHASES:**	3		**MAINS RATING:**	225 A		**GROUND BUS:**	STANDARD, CU		
ENCLOSURE:	NEMA 1		**WIRES:**	4		**MCB RATING:**	225 A					
FED FROM:	ATS-ELEV		**MCB TYPE:**	COPPER								

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	ELEV-1	80 A	3	11083...	11083...					3	80 A	ELEV-2	2
3	--	--	--			11083...	11083...			--	--	--	4
5	--	--	--					11083...	11083...	--	--	--	6
7	ELEV-3	80 A	3	11083...	11083...					3	80 A	ELEV-4	8
9	--	--	--			11083...	11083...			--	--	--	10
11	--	--	--					11083...	11083...	--	--	--	12
13	SPACE	--	--	0 VA	0 VA					--	--	SPACE	14
15	SPACE	--	--			0 VA	0 VA			--	--	SPACE	16
17	SPACE	--	--					0 VA	0 VA	--	--	SPACE	18
19	SPACE	--	--	0 VA	0 VA					--	--	SPACE	20
21	SPACE	--	--			0 VA	0 VA			--	--	SPACE	22
23	SPACE	--	--					0 VA	0 VA	--	--	SPACE	24
25	SPACE	--	--	0 VA	0 VA					--	--	SPACE	26
27	SPACE	--	--			0 VA	0 VA			--	--	SPACE	28
29	SPACE	--	--					0 VA	0 VA	--	--	SPACE	30
31	SPACE	--	--	0 VA	0 VA					--	--	SPACE	32
33	SPACE	--	--			0 VA	0 VA			--	--	SPACE	34
35	SPACE	--	--					0 VA	0 VA	--	--	SPACE	36
37	SPACE	--	--	0 VA	2200 VA					3	25 A	XFMR-ELEV	38
39	SPACE	--	--			0 VA	1820 VA			--	--	--	40
41	SPACE	--	--					0 VA	1100 VA	--	--	--	42
			TOTAL LOAD:	46533 VA		46153 VA		45433 VA					
			TOTAL AMPS:	168 A		167 A		164 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
LIGHTING	400 VA	100.00%	400 VA	**TOTAL CONNECTED...**	138120 VA
MOTOR/EQUIPT.	137000 VA	70.00%	95900 VA	**TOTAL EST. DEMAND:**	96660 VA
RECEPTACLE	720 VA	50.00%	360 VA	**TOTAL CONN.:**	166 A
				TOTAL EST. DEMAND:	116 A

PANEL BOARD: NL-RT-2

LOCATION:	RESTAURANT		**VOLTS:**	120/208 Wye		**MAINS TYPE:**	MCB		**NEUTRAL BUS:**	STANDARD, CU		
MOUNTING TYPE:	SURFACE		**PHASES:**	3		**MAINS RATING:**	400 A		**GROUND BUS:**	STANDARD, CU		
ENCLOSURE:	NEMA 1		**WIRES:**	4		**MCB RATING:**	400 A					
FED FROM:	RETAIL...		**MCB TYPE:**	COPPER								

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	EUH-1.7	20 A	2	1250 VA	1250 VA					2	20 A	EUH-1.8	2
3	--	--	--			1250 VA	1250 VA			--	--	--	4
5	EUH-1.9	20 A	2					1250 VA	1500 VA	2	25 A	CUH-2.3	6
7	--	--	--	1250 VA	1500 VA					--	--	--	8
9	EUH-2.X	20 A	2			1250 VA	0 VA			1	20 A	SPARE	10
11	--	--	--					1250 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
			TOTAL LOAD:	5250 VA		3750 VA		4000 VA					
			TOTAL AMPS:	44 A		31 A		34 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
ELECTRICAL HEATING	13000 VA	100.00%	13000 VA	**TOTAL CONNECTED...**	13000 VA
				TOTAL EST. DEMAND:	13000 VA
				TOTAL CONN.:	36 A
				TOTAL EST. DEMAND:	36 A

PANEL BOARD: EL-MP-1

LOCATION:	ATS ROOM		**VOLTS:**	120/208 Wye		**MAINS TYPE:**	MCB		**NEUTRAL BUS:**	STANDARD, CU		
MOUNTING TYPE:	SURFACE		**PHASES:**	3		**MAINS RATING:**	100 A		**GROUND BUS:**	STANDARD, CU		
ENCLOSURE:	NEMA 1		**WIRES:**	4		**MCB RATING:**	100 A					
FED FROM:	XFMR-EMP		**MCB TYPE:**	COPPER								

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	FACP	20 A	1	0 VA	0 VA					1	20 A	ERP	2
3	GARAGE DOOR MOTOR	20 A	1			1200 VA	1200 VA			1	20 A	GARAGE DOOR MOTOR	4
5	GARAGE DOOR MOTOR	20 A	1					1200 VA	1200 VA	1	20 A	GARAGE DOOR MOTOR	6
7	EPP-1	15 A	1	1180 VA	1180 VA					1	15 A	EPP-2	8
9	EPP-3	15 A	1			1180 VA	1180 VA			1	15 A	EPP-4	10
11	DV-1	20 A	1					1920 VA	1920 VA	1	20 A	DV-2	12
13	JP-1	20 A	1	1920 VA	220 VA					1	15 A	RH-2	14
15	RH-1	15 A	1			220 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPACE	--	--	0 VA	0 VA					--	--	SPACE	26
27	SPACE	--	--			0 VA	0 VA			--	--	SPACE	28
29	SPACE	--	--					0 VA	0 VA	--	--	SPACE	30
31	SPACE	--	--	0 VA	0 VA					--	--	SPACE	32
33	SPACE	--	--			0 VA	0 VA			--	--	SPACE	34
35	SPACE	--	--					0 VA	0 VA	--	--	SPACE	36
37	SPACE	--	--	0 VA	0 VA					--	--	SPACE	38
39	SPACE	--	--			0 VA	0 VA			--	--	SPACE	40
41	SPACE	--	--					0 VA	0 VA	--	--	SPACE	42
			TOTAL LOAD:	4270 VA		4725 VA		6240 VA					
			TOTAL AMPS:	36 A		40 A		53 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
MOTOR/EQUIPT.	15045 VA	70.00%	10531 VA	**TOTAL CONNECTED...**	15045 VA
				TOTAL EST. DEMAND:	10531 VA
				TOTAL CONN.:	42 A
				TOTAL EST. DEMAND:	29 A

PANEL BOARD: EL-ELEV

LOCATION:	ATS ROOM		**VOLTS:**	120/208 Wye		**MAINS TYPE:**	MCB		**NEUTRAL BUS:**	STANDARD, CU		
MOUNTING TYPE:	SURFACE		**PHASES:**	3		**MAINS RATING:**	60 A		**GROUND BUS:**	STANDARD, CU		
ENCLOSURE:	NEMA 1		**WIRES:**	4		**MCB RATING:**	60 A					
FED FROM:	XFMR-ELEV		**MCB TYPE:**	COPPER								

CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	LIGHTING ELEV	20 A	1	100 VA	1000 VA					1	20 A	HVAC ELEV	2
3	LIGHTING ELEV	20 A	1			100 VA	1000 VA			1	20 A	HVAC ELEV	4
5	LIGHTING ELEV	20 A	1					100 VA	1000 VA	1	20 A	HVAC ELEV	6
7	LIGHTING ELEV	20 A	1	100 VA	1000 VA					1	20 A	HVAC ELEV	8
9	RECEPTACLE ELEV.	20 A	1			360 VA	360 VA			1	20 A	RECEPTACLE ELEVATOR PIT	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPACE	--	--			0 VA	0 VA			--	--	SPACE	16
17	SPACE	--	--					0 VA	0 VA	--	--	SPACE	18
19	SPACE	--	--	0 VA	0 VA					--	--	SPACE	20
21	SPACE	--	--			0 VA	0 VA			--	--	SPACE	22
23	SPACE	--	--					0 VA	0 VA	--	--	SPACE	24
25	SPACE	--	--	0 VA	0 VA					--	--	SPACE	26
27	SPACE	--	--			0 VA	0 VA			--	--	SPACE	28
29	SPACE	--	--					0 VA	0 VA	--	--	SPACE	30
31	SPACE	--	--	0 VA	0 VA					--	--	SPACE	32
33	SPACE	--	--			0 VA	0 VA			--	--	SPACE	34
35	SPACE	--	--					0 VA	0 VA	--	--	SPACE	36
37	SPACE	--	--	0 VA	0 VA					--	--	SPACE	38
39	SPACE	--	--			0 VA	0 VA			--	--	SPACE	40
41	SPACE	--	--					0 VA	0 VA	--	--	SPACE	42
			TOTAL LOAD:	2200 VA		1820 VA		1100 VA					
			TOTAL AMPS:	19 A		16 A		9 A					

LOAD CLASSIFICATIONS:	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
LIGHTING	400 VA	100.00%	400 VA	**TOTAL CONNECTED...**	5120 VA
MOTOR/EQUIPT.	4000 VA	70.00%	2800 VA	**TOTAL EST. DEMAND:**	3560 VA
RECEPTACLE	720 VA	50.00%	360 VA	**TOTAL CONN.:**	14 A
				TOTAL EST. DEMAND:	10 A

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VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

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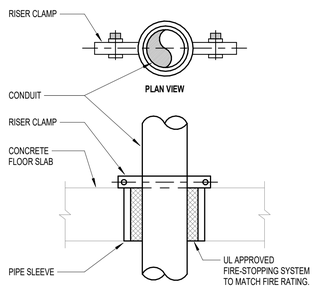
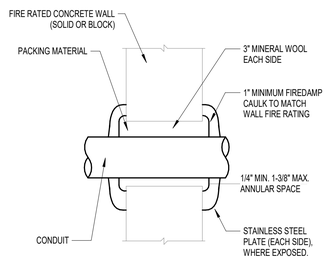


3 CONDUIT INTERIOR FLOOR PENETRATION
NTS



2 CONDUIT INTERIOR CONCRETE WALL PENETRATION
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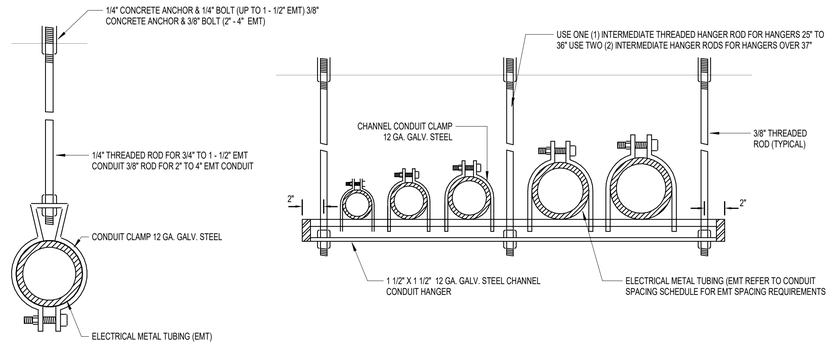
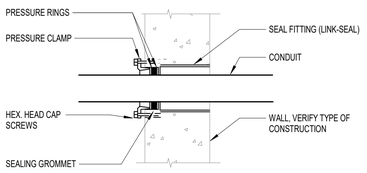


1 TYPICAL SINGLE & MULTIPLE SINGLE ROW CONDUIT HANGER
NTS



7 FOUNDATION CONDUIT PENETRATION
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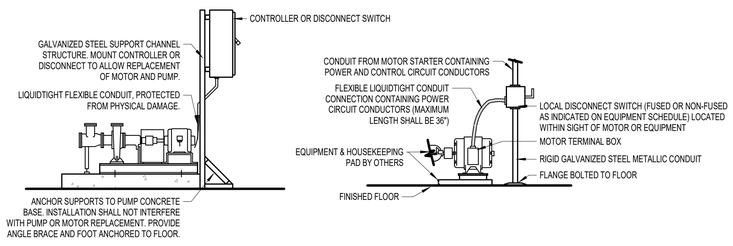
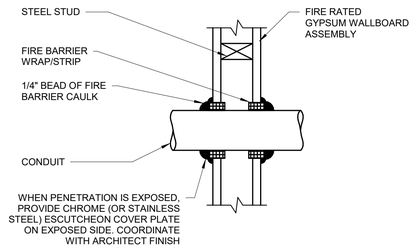


6 PUMP MOTOR CONNECTION DETAILS1
NTS



5 CONDUIT INTERIOR GYP BOARD FIRE RATED WALL PENETRATION
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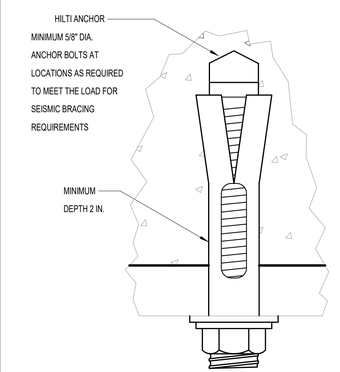
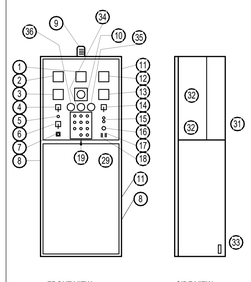


4 CONCRETE INSERT
NTS



GENERAL NOTES

1. FREQUENCY METER
2. A.C. VOLT METER 0-600V
3. ELAPSED TIME INDICATOR
4. VOLT METER SELECTOR SWITCH L-L, 30 L-N, 30
5. AMBER LIGHT-FLASHING WHEN SELECTOR SWITCH IS IN MANUAL POSITION
6. MODE SELECTOR SWITCH MANUAL -OFF-AUTOMATIC
7. VOLTAGE LEVEL RHEOSTAT
8. REMOVABLE SIDE PANELS
9. AUDIBLE ALARM - SEE SPECS
10. K.W. METER
11. PIANO HINGE
12. A.C. AMMETER
13. TACHOMETER 0-2500 RPM
14. AMMETER SELECTOR SWITCH
15. MANUAL START-STOP PUSH BUTTONS
16. EMERGENCY STOP-MUSH HEAD
17. TEST SWITCH
18. SILENCING SWITCH
19. ENGINE OVER CRANK
20. PRE-ALARM HIGH COOLANT TEMP
21. HIGH COOLANT TEMP.
22. PRE-ALARM-LOW LUBE OIL PRESSURE
23. LOW LUBE OIL PRESSURE
24. LOW COOLANT TEMP.
25. ENGINE OVER SPEED
26. LOW LEVEL DAY TANK
27. LOW LEVEL MAIN TANK
28. LOW COOLANT LEVEL-AT REST
29. GREEN LIGHT-FLASHING WHEN GENERATOR BREAKER IS IN THE TRIPPED OR OPEN POSITION
31. FIXED REAR PANEL
32. STEEL BARRIER
33. GROUND BUS
34. COOLANT TEMPERATURE GAUGE
35. LUBE OIL PRESSURE GAUGE
36. FUEL PRESSURE GAUGE

11 GENERATOR CONTROL PANEL
NTS

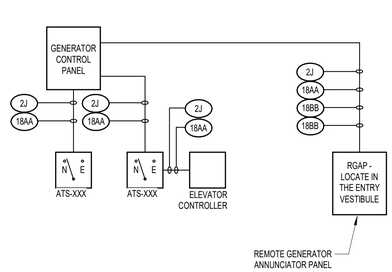


TABLE-AA CLASS 1 CONTROL

SYS TAG	SOLID Cu THHN - THWN	COND SIZE
18AA	18 #12	1"

TABLE-BB COMM & CLASS 2-3 CONTROL

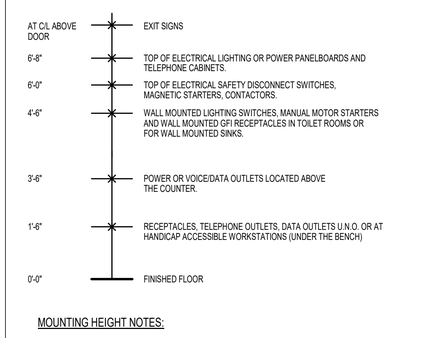
SYS TAG	SOLID Cu CMP - MPP AWG	COND SIZE
18BB	6C #16 STP CABLE	3/4"

EMPTY CONDUIT

TABLE-J

TAG	SETS	SIZE
1J	1	3/4"
2J	1	1"

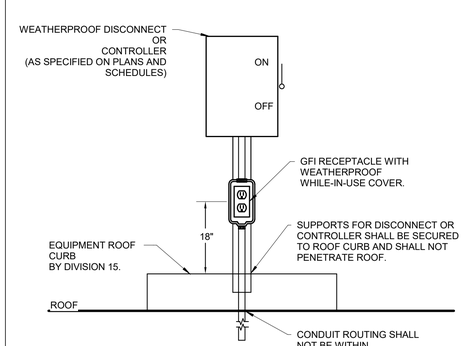
10 GENERATOR TO ATS CONTROL WIRING
NTS



MOUNTING HEIGHT NOTES:

1. MOUNTING HEIGHT IS INDICATED TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED.
2. COORDINATE WITH OWNER, ARCHITECTURAL DETAILS AND CASEWORK DRAWINGS EXACT MOUNTING HEIGHTS AND LOCATION OF ALL THE OUTLETS PRIOR TO ROUGH-IN.

9 DEVICE MOUNTING HEIGHT DIAGRAM
NTS



8 ROOFTOP RECEPTACLE MOUNTING DETAIL
NTS

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RLJ JR
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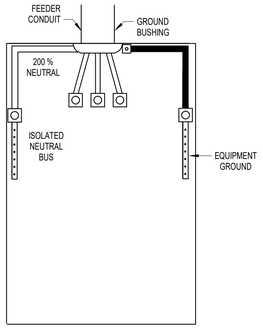


FEEDER WIRE SIZE

1. 100A = # 2
2. 200A = 3/0
3. 200A = 4/0 (OVER 100')

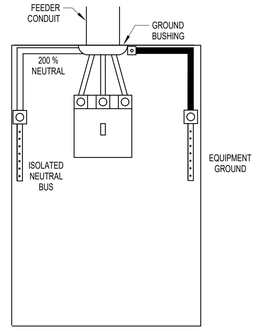
BRANCH WIRE SIZE

1. 20A = # 12
2. 20A = # 10 (OVER 100')
3. 30A = # 10
4. 30A = # 8 (OVER 100')

NOTES:

1. PER **XXX** SPECIFICATIONS, ALL WIRE WILL HAVE THHN INSULATION.
2. WIRE GAUGE SIZE WILL BE DETERMINED BY THE CITY OF **XXX** CODE.
3. MAXIMUM OF (4) DEVICES PER CIRCUIT.
4. CIRCUITS ARE FOR COMPUTERS, PRINTERS, AND ACTIVE COMPONENTS ONLY.
5. 200% NEUTRALS CAN BE SHARED PER THE CITY OF **XXX** ELECTRICAL CODE FOR CIRCUITS.

3 TYPICAL SUB-PANEL MAIN LUGS ONLY
NTS



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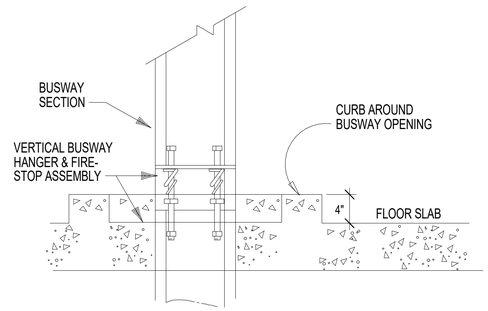
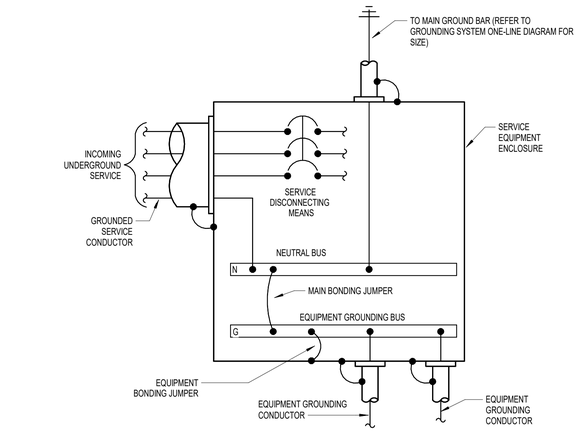
NOTES:

1. PER **XXX** SPECIFICATIONS, ALL WIRE WILL HAVE THHN INSULATION.
2. WIRE GAUGE SIZE WILL BE DETERMINED BY THE CITY OF **XXX** CODE.
3. MAXIMUM OF (4) DEVICES PER CIRCUIT.
4. CIRCUITS ARE FOR COMPUTERS, PRINTERS, AND ACTIVE COMPONENTS ONLY.
5. 200% NEUTRALS CAN BE SHARED PER THE CITY OF **XXX** ELECTRICAL CODE FOR CIRCUITS.
6. IT/MDF ROOM SHALL BE PROVIDED WITH A 150A 42-CIRCUIT COMPUTER PANELBOARD.
7. ALL MDF CIRCUITS SHALL HAVE A 200% NEUTRAL PER CIRCUIT.

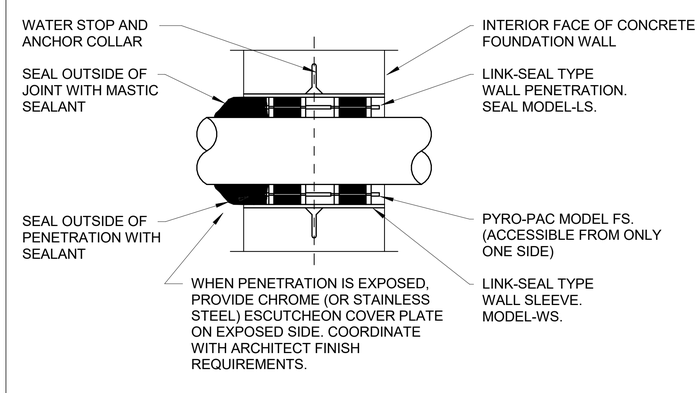
2 TYPICAL SUB-PANEL MAIN CIRCUIT BREAKER
NTS



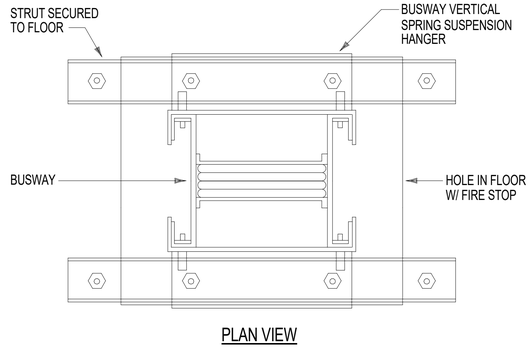
TYPICAL VERTICAL BUSWAY INSTALLATION DETAIL



5 TYPICAL ELECTRICAL SERVICE EQUIPMENT GROUNDING1
NTS

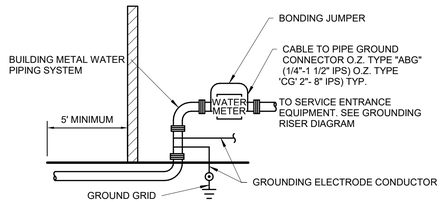


4 CONDUIT EXTERIOR WALL PENETRATION
NTS

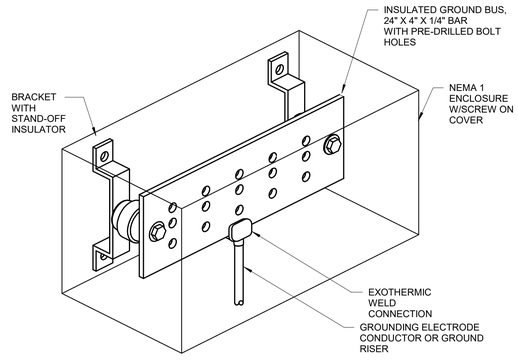


PLAN VIEW

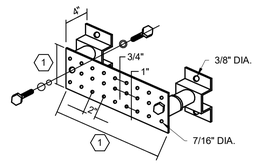
1 BUS DUCT PENETRATION DETAIL
NTS



8 GROUNDING OF METAL WATER PIPING SYSTEM
NTS



7 GROUND BUS DETAIL (MGB)
NTS



SOLID COPPER GROUND BUS-BARS 1/4" THICK FOR WALL AND BACKBOARD MOUNTING. PROVIDES 4" STANDOFF FROM BACKBOARD. KIT CONSISTS OF:

1- EACH BUS-BAR
2- EACH INSULATORS
3- EACH STANDOFF BRACKETS AND ASSEMBLY SCREWS.

KEYED NOTES:

1. REFER TO SPECIFIC DETAILS FOR BUSBAR DIMENSIONS.

6 GROUND BUS BAR KIT - WALL MOUNTED
NTS

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RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E6.1

JONES & JONES ASSOCIATES ARCHITECTS PC

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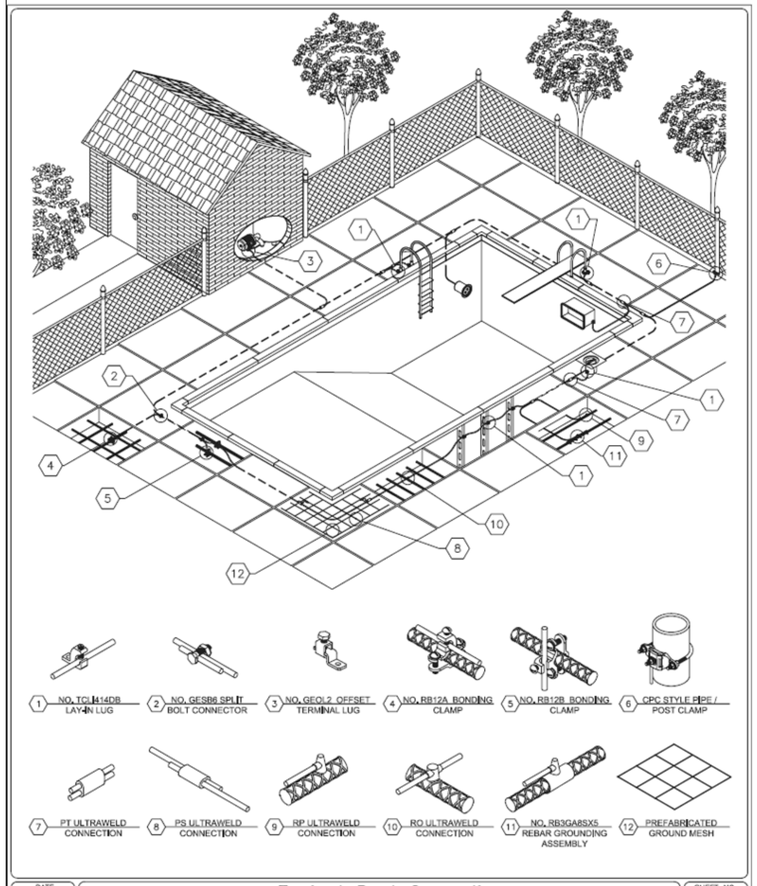
Typical Pool Grounding Layout



DATE © 2009 | Typical Pool Grounding | SHEET NO. 1 OF 1

EQUIPOTENTIAL BONDING GRID:

PROVIDE BONDING OF ALL PARTS SPECIFIED IN 680.26(B) SHALL BE CONNECTED TO AN EQUIPOTENTIAL BONDING GRID WITH A SOLID COPPER CONDUCTOR, INSULATED, COVERED, OR BARE, NOT SMALLER THAN #8 AWG OR RIGID METAL CONDUIT OF BRASS OR OTHER IDENTIFIED CORROSION-RESISTANT METAL CONDUIT. CONNECTION SHALL BE MADE BY EXOTHERMIC WELDING OR BY LISTED PRESSURE CONNECTORS OR CLAMPS THAT ARE LABELED AS BEING SUITABLE FOR THE PURPOSE AND ARE OF STAINLESS STEEL, BRASS, COPPER, OR COPPER ALLOY. THE EQUIPOTENTIAL BONDING GRID SHALL CONFORM TO THE CONTOURS OF THE POOL AND SHALL EXTEND WITHIN OR UNDER PAVED WALKING SURFACES FOR 1 M (3 FT) HORIZONTALLY BEYOND THE INSIDE WALLS OF THE POOL AND SHALL BE PERMITTED TO BE ANY OF THE FOLLOWING:
EXCEPTION: THE EQUIPOTENTIAL BONDING GRID SHALL NOT BE REQUIRED TO BE INSTALLED UNDER THE BOTTOM OF OR VERTICALLY ALONG THE WALLS OF VINYL LINED POLYMER WALL, FIBERGLASS COMPOSITE, OR OTHER POOLS CONSTRUCTED OF NONCONDUCTIVE MATERIALS. ANY METAL PARTS OF THE POOL, INCLUDING METAL STRUCTURAL SUPPORTS, SHALL BE BONDED IN ACCORDANCE WITH 680.26(B). FOR THE PURPOSES OF THIS SECTION, POURED CONCRETE, PNEUMATICALLY APPLIED (SPRAYED) CONCRETE, AND CONCRETE BLOCK, WITH PAINTED OR PLASTERED COATINGS, SHALL BE CONSIDERED CONDUCTIVE MATERIAL.

STRUCTURAL REINFORCING STEEL:

THE STRUCTURAL REINFORCING STEEL OF A CONCRETE POOL OR DECK WHERE THE REINFORCING RODS ARE BONDED TOGETHER BY THE USUAL STEEL TIE WIRES OR THE EQUIVALENT. WHERE DECK REINFORCING STEEL IS NOT AN INTEGRAL PART OF THE POOL, THE DECK REINFORCING STEEL SHALL BE BONDED TO OTHER PARTS OF THE BONDING GRID USING A MINIMUM #8 AWG SOLID COPPER CONDUCTOR. CONNECTION SHALL BE PER 680.26(D).

EQUIPOTENTIAL BONDING GRID (EBG).

CONDUCTIVE POOL SHELL BONDING. POOLS THAT HAVE A CONDUCTIVE POOL SHELL (CONCRETE OR METAL) ARE REQUIRED TO BE BONDED WITH #8 BARE SOLID COPPER (BSC) WIRE.

PERIMETER SURFACE BONDING. THE PERIMETER SURFACE FROM THE POOL WALL OUT 3 FOOT SHALL BE BONDED. THIS BONDING IS REQUIRED IF PAVED OR UNPAVED. IF PAVED WITH POURED CONCRETE, STEEL IS REQUIRED TO BE EMBEDDED IN THE CONCRETE. IF PAVED WITH STEPPING STONES OR IF UNPAVED, A #8 BARE SOLID COPPER WIRE IS REQUIRED TO BE BURIED AROUND THE POOL 18"- 24" FROM THE POOL WALLS. THIS #8 IS BURIED 4'- 6" DEEP AND CONNECTED TO EQUIPOTENTIAL BONDING GRID. IF A CONCRETE WALKWAY IS BEING INSTALLED, A #8 COPPER SHALL BE RUN CONTINUOUSLY AROUND THE POOL IN THE POUR AND BONDED TO EACH PIECE OF REINFORCING STEEL. 6 X 6 STEEL REINFORCING WIRE MAY BE REQUIRED TO BE INSTALLED. ALL BONDING WIRES ARE CONNECTED TO EQUIPOTENTIAL BONDING GRID.

LISTED CONNECTORS. CONNECTORS FOR THE #8 BSC WIRE ARE REQUIRED TO BE LABELED AS APPROVED FOR DIRECT BURIAL IF BURIED OR IMMERSED IN CONCRETE. THESE ARE STAMPED DB OR DB. BRASS SPLIT BOLT CONNECTORS LABELED DB ARE ACCEPTABLE. WATER BONDING. FOR PERMANENTLY INSTALLED POOLS THE WATER IS BONDED TO THE EBG BY CONNECTING SOMETHING METAL WITH MORE THAN 9 SQUARE INCHES SURFACE AREA IN CONTACT WITH THE WATER VIA A #8 WIRE TO THE EBG. IF NO METAL IS IN THE WATER (LADDER, WET NICHE LIGHT CAN), THIS CAN BE ACCOMPLISHED WITH A BRASS NIPPLE IN THE WATER PIPING SYSTEM AT THE PUMP LOCATION. THIS NIPPLE IS BONDED VIA A WATER PIPE GROUND CLAMP TO THE EQUIPOTENTIAL BONDING GRID.

1 POOL GROUNDING
NTS

REVISION DATE
1 04.5.2021
RISER, CPC DETAILS 04.15.2021
PERMIT SET PERMIT 06.30.2021
PERMIT REVISION —
—

db HMS design build engineering
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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
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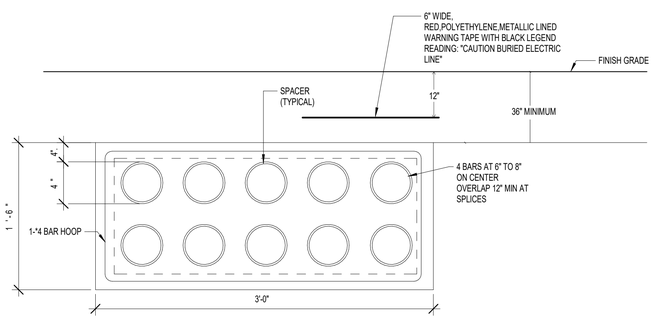
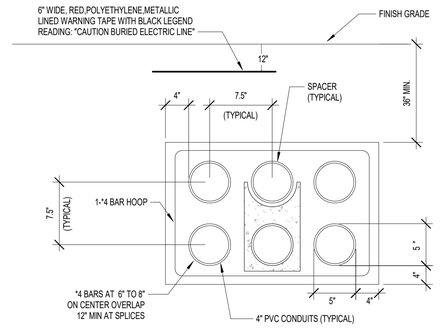
PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E6.2

JONES & JONES ASSOCIATES / ARCHITECTS PC

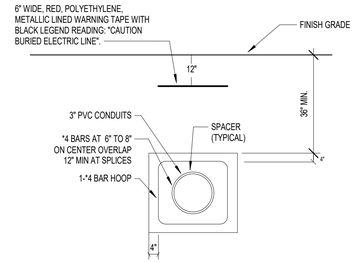


3 SECONDARY ELECTRICAL SERVICE DUCT BANK - 120/208V SERVICE
NTS



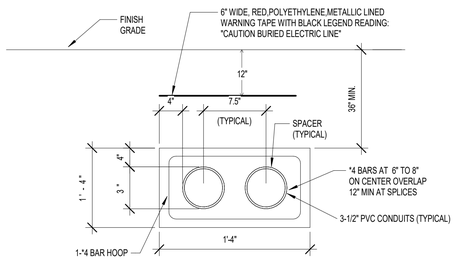
NOTES:
CONDUIT SHALL BE PVC SCHEDULE 40 U.O.N.

2 PRIMARY ELECTRICAL SERVICE DUCT BANK - 6 CONDUITS
NTS

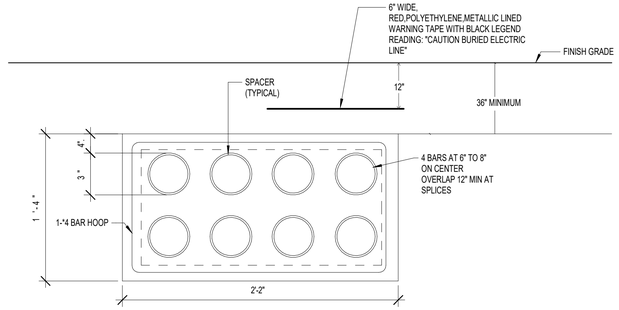


NOTES:
CONDUIT SHALL BE PVC SCHEDULE 40 U.O.N.

1 FIRE PUMP DUCTBANK
NTS



5 SECONDARY ELECTRICAL SERVICE DUCT BANK - 4 CONDUITS
NTS



4 SECONDARY ELECTRICAL SERVICE DUCT BANK - 277/480V SERVICE
NTS

REVISION DATE
ISSUE FOR PERMIT 04.15.2021
ISSUE FOR PERMIT 04.05.2021
PERMIT REVISION 06.30.2021

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JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

E6.3

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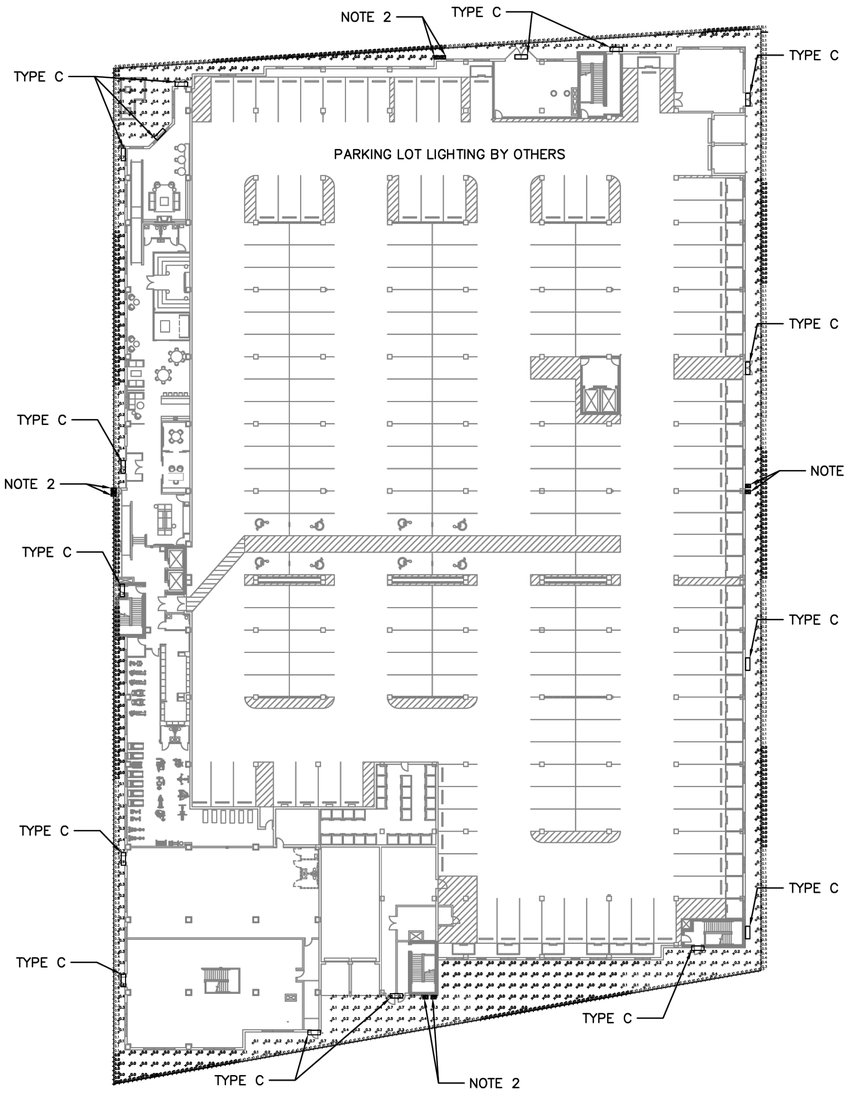
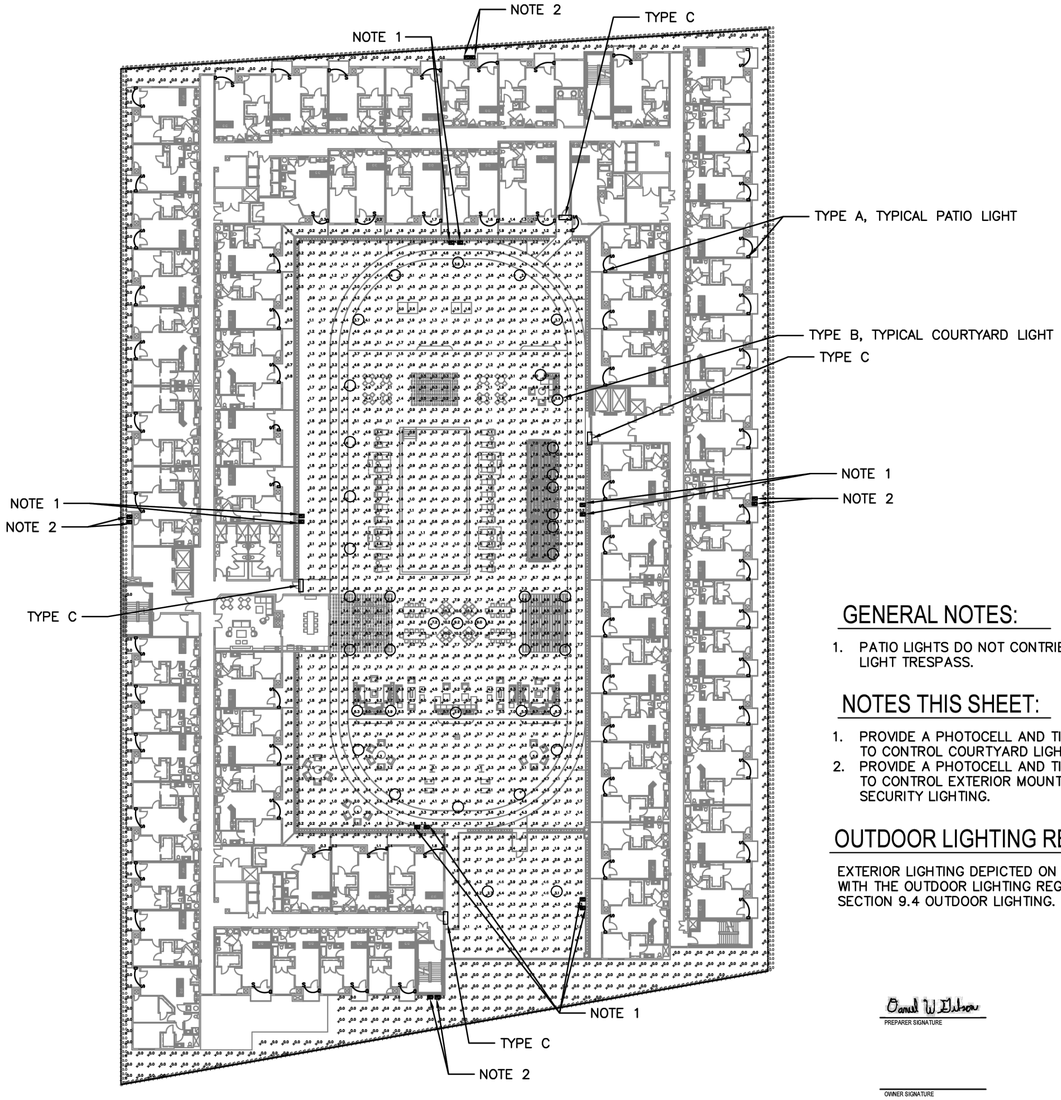


SITE PHOTOMETRICS: FIRST FLOOR

SCALE 1/32" = 1'-0"



SITE PHOTOMETRICS: THIRD FLOOR

SCALE 1/32" = 1'-0"

SITE LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	INPUT VOLTAGE	LAMPS TYPE	TOTAL WATTS	MT. HEIGHT	LIGHT LOSS FACTOR (LFF)
A	LITHONIA	OLLWD LED P1 40K MVOLT	MVOLT	LED	9	8'	.9
B	BEACON PRODUCTS	TRA30-AC-24L-55-3K-UNV-DIR5	MVOLT	LED	57	8'	.9
C	LITHONIA	DSXW1P1 AMBLW T3M	MVOLT	LED	10.1	9'	.9

STATISTICS TABLE

LOCATION	MAXIMUM		MINIMUM		AVERAGE		UNIFORMITY RATIO: AVERAGE/ MINIMUM
PROPERTY LINE	.9	fc	0	fc	0.2	fc	N/A
COURTYARD	14.6	fc	.1	fc	4.1	fc	41.0:1
DOG WALK	4.6	fc	.4	fc	2.4	fc	6.0:1
PROPERTY LINE LIGHT FROM BALCONY	0	fc	0	fc	0	fc	N/A
SITE LIGHTING UP TO PROPERTY LINE	1.2	fc	0	fc	.2	fc	N/A

GENERAL NOTES:

1. PATIO LIGHTS DO NOT CONTRIBUTE TO LIGHT TRESPASS.

NOTES THIS SHEET:

1. PROVIDE A PHOTOCELL AND TIME CLOCK TO CONTROL COURTYARD LIGHTING.
2. PROVIDE A PHOTOCELL AND TIME CLOCK TO CONTROL EXTERIOR MOUNTED SECURITY LIGHTING.

OUTDOOR LIGHTING REGULATIONS:

EXTERIOR LIGHTING DEPICTED ON THE PLAN COMPLIES WITH THE OUTDOOR LIGHTING REGULATIONS OF SECTION 9.4 OUTDOOR LIGHTING.

Donald W. Elshaw
PREPARER SIGNATURE

OWNER SIGNATURE

REVISION DATE
1 - 6 JUL 2021
2 - 8 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025
7 - 31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

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RLJ JR
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COMMISSION NUMBER
2198
DATE
18 JUN 2021

E7.1

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE

Provides years of maintenance-free illumination for outdoor use in residential & commercial applications. Ideal for applications such as lighting walkways and stairways for safety and security.

CONSTRUCTION

Cast-aluminum housing with corrosion-resistant paint in either dark bronze or white finish.

ADA compliant.

OPTICS

4000K CCT LEDs.

Polycarbonate lens protects the LED from moisture, dirt and other contaminants.

LUMEN MAINTENANCE: The LED will deliver 70% of its initial lumens at 50,000 hour average LED life. See Lighting Facts label on page 2 for performance details.

ELECTRICAL

MVOLT driver operates on any line voltage from 120-277V

Operating temperature -30ºC to 40ºC.

1KV surge protection standard.

INSTALLATION

Surface mounts to universal junction box (provided by others).

LISTINGS

UL Listed to U.S. and Canadian safety standards for wet locations.

Tested in accordance with IESNA LM-79 and LM-80 standards.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Outdoor General Purpose

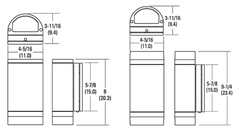
OLLWD & OLLWU

LED WALL CYLINDER LIGHT

LED

Specifications

All dimensions are inches (centimeters)



ORDERING INFORMATION — For shortest lead times, configure products using **bolded options.** **Example:** OLLWD LED P1 40K MVOLT DDB

Series	Performance Package	Color temperature (CCT)	Voltage	Finish
OLLWD LED Downlight **OLLWU LED** Up & downlight	**P1**	**40K** 4000K	**MVOLT** 120V-277V **120** 120V[1]	**DDB** Dark bronze **WH** White[2]

Notes
1. Only available with OLLWU and in DDB.
2. Only available with OLLWU.

Ⓐ LITHONIA LIGHTING OLLWD LED P1 40K MVOLT MOUNTING HEIGHT — 8'

BEACON
design · performance · technology

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

Traditional TRA30

30" TRADITIONAL LUMINAIRE

FEATURES

- Historic four-side lantern, provides modern technology in a traditional and attractive form factor
- Choice of acrylic or polycarbonate lensing
- Available with or without finial for customizable style
- Available in 3000K, 4000K and 5000K

energent

	Weight lbs.	EPA
TRA30	35	2.6 sq. ft.

SPECIFICATIONS

CONSTRUCTION

- All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6, 6063-T5 or equal
- The upper chamberfid shall be topped by a decorative cast aluminum finial/cap and mechanically fastened to the optical chamber. The cast multi-sided cage shall accommodate UV stabilized acrylic or polycarbonate lenses (side panels) which shall be sealed for weather tight operation
- The electrical chamberfitter shall be aluminum, decorative fitter designed to accommodate the assembly and shall mount to 3 OD x 3" H tenon and secured by three stainless steel set screws
- All fasteners shall be Corrosion Resistant. When tamper resistant fasteners are required, spanner HD (snake eye) style shall be provided (special tool required, available at additional cost)
- Finish shall be a Beacote V polyester powdercoat electrostatically applied and thermocured. Beacote V finish shall consist of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pound

ELECTRICAL

- Each luminaire is supplied with an optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel. The cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system. Silicone foam gasket ensures a weather-proof seal around each individual LED and allows the luminaire to be rated for high-pressure hose down applications

ELECTRICAL (CONTINUED)

- The optical cartridge is secured to the extruded housing with fasteners to ensure thermal conductivity. The optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning. The cartridge assembly is available in various lighting distributions using a specially designed acrylic optical lens over each LED
- Shall be able to operate normally in ambient temperatures from -40°C to 40°C
- The on-board surge protector shall be a UL recognized component for the United States and Canada and have a surge current rating of 20,000 Amps using the industry standard 8/20 µSec wave. The LSP shall have a clamping voltage of 825V and surge rating of 540J. The case shall be a high-temperature, flame resistant plastic enclosure
- Luminaires are equipped with LED driver(s) that accept 90 through 305 VAC, 50 Hz to 60 Hz (UNIV). Power factor is .92 at full load. All driver components supplied are component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600VAC at 50°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher

CONTROLS

- Thermal circuit shall protect the luminaire from excessive temperature by interfacing with its 0-10V dimmable drivers to reduce drive current as necessary. The factory-preset temperature limits shall be designed to ensure maximum hours of operation to assure L70 rated lumen maintenance. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range in recognition of the effect of reduced current on the internal temperature and longevity of the LEDs and other components.

CONTROLS (CONTINUED)

- A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131°F). The thermal circuit will allow higher maximum Wattages than would be permissible on an unregulated luminaire (if some variation in light output is permissible), without risk of premature LED failure. Operation shall be smooth and undetectable to the eye. Thermal circuit shall directly measure the temperature at the LED solder point
- Thermal circuit shall consist of surface mounted components mounted on the LED engine (printed circuit board). For maximum simplicity and reliability, the device shall have no dedicated enclosure, circuit board, wiring harness, gaskets, or hardware. Device shall have no moving parts, and shall operate entirely at low voltage (NEC Class 2). The device shall be located in an area of the luminaire that is protected from the elements
- Thermal circuit shall be designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers
- Device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.). The device will effectively control the solder point temperature as needed; otherwise it will allow the other control device(s) to function unimpeded

CERTIFICATIONS

- U.L. UL1310 Class 2 and UL48 compliant
- The luminaire shall bear an NRTL label and be marked suitable for wet locations

WARRANTY

- 5 year warranty

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BEACON
design · performance · technology

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

Traditional TRA30

30" TRADITIONAL LUMINAIRE

ORDERING GUIDE

Example: TRA30–AC–24L-55–3K7–UNV–PEC–PT–NF–BLT

CATALOG #

Series	Lens Finish	Engine Watts	CCT	Voltage	Optics
TRA30 Traditional 30"	**AC** Acrylic Clear **AF** Acrylic Frosted **AS** Acrylic Seeded **AW** Acrylic White **PC** Polycarbonate Clear **PF** Polycarbonate Frosted **PS** Polycarbonate Seeded **PW** Polycarbonate White	**24L-55** 4800 Lumens **36L-80** 7500 Lumens **48L-110** 10,000 Lumens **60L-136** 12,000 Lumens	**3K7** 3000K, 70 CRI **4K7** 4000K, 70 CRI **5K7** 5000K, 70 CRI	**UNV** 120–277V **347** 347V **480** 480V	**DIR2** Type 2 **DIR3** Type 3 **DIR4** Type 4 **DIR5** Type 5

Electrical Options	Control Options	Mounting Options	Style Option	Color
PEC Photocell, Button[1]	**GENI-XX** Energent[2]	**PT** Post Top	**(blank)** Finial **NF** No Finial	**BLT** Black Matte Textured **BLS** Black Gloss Smooth **DBT** Dark Bronze Textured **DBS** Dark Bronze Smooth **GTT** Graphite Matte Textured **LGS** Light Grey Gloss Smooth **PSS** Platinum Silver Smooth **WHT** White Matte Textured **WHS** White Gloss Smooth **VGT** Verde Green Textured **Color Option** **CC** Custom Color

Notes:
1 UNV (120-277V) only
2 Must specify routing setting code. See page 7 for details.

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Ⓑ BEACON PRODUCTS TRA30–AC–24L–55–3K–UNV–DIR5 MOUNTING HEIGHT — 8'

d-series

D-Series Size 1

LED Wall Luminaire

BAA BABA

Catalog Number	
Notes	
Type	

Hit the Tab key or mouse over the page to see all interactive elements.

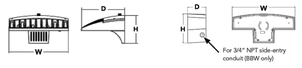
Specifications

Luminaire

Width: 13-3/4" (34.9 cm) **Weight:** 12 lbs (5.4 kg)
Depth: 10" (25.4 cm)
Height: 6-3/8" (16.2 cm)

Back Box (BBW, E20WC)

Width: 13-3/4" (34.9 cm) **BBW Weight:** 5 lbs (2.3 kg)
Depth: 4" (10.2 cm) **E20WC Weight:** 10 lbs (4.5 kg)
Height: 6-3/8" (16.2 cm)



Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and significant energy savings, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED P2 40K 70CRI T3M MVOLT SRM DDBTXD

DSXW1 LED

Series	Lumen Package	CCT	CRI	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	**P1** 2000 Lumens **P2** 2200 Lumens **P3** 3200 Lumens **P4** 4300 Lumens **P5** 5200 Lumens **P6** 7200 Lumens **P7** 10000 Lumens	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K **57K** 5700K **AMBPC** Amber PC[1] **AMBLW** Amber LW[1,2]	**70CRI** 70CRI **80CRI** 80CRI[3] **AMCRI** Amber CRI	**T2S** Type 2 Short **T2M** Type 2 Medium **T3LG** Type 3 Low Glare[4] **T3M** Type 3 Medium **T4M** Type 4 Medium **TFTM** Forward Throw Medium **BLC3** Back Light Control Type 3[5] **BLC4** Back Light Control Type 4[5]	**MVOLT** 120[6] 208[6] 240[6] 277[6] 347[6,8] 480[6,8] **HVOLT**[6,9]	**Shipped included** **SRM** Surface mounting bracket **BBW** Surface-mounted back box (for conduit entry)[7] **Shipped installed** **PE** Photoelectric cell, button type[8] **DMG** 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) **PIR** 180° motion/ambient light sensor, <15' mtg ht[8] **PIRH** 180° motion/ambient light sensor, 15-30' mtg ht[8] **PIR1FC3V** Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 3fc[8] **PIRH1FC3V** Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 3fc[8] **E20WC** 20 Watt Emergency battery backup (includes external component enclosure), CA Title 20 Compliant[10] **E10WH** 10 Watt Emergency battery backup (includes external component enclosure), CA Title 20 compliant[10]

Other Options		Finish (required)			
Shipped installed **SF** Single fuse (120, 277 or 347V)[6,11] **DF** Double fuse (208, 240 or 480V)[6,11] **HS** House-side shield[12] **SPD** Separate surge protection	**Shipped separately**[12] **BSW** Bird-deterrent spikes **VG** Vandal guard **DDL** Diffused drop lens	**DDBXD** Dark bronze **DBLXD** Black **DNAXD** Natural aluminum **DWHXD** White **DSSXD** Sandstone **DDBTXD** Textured dark bronze **DBLBXD** Textured black **DNATXD** Textured natural aluminum **DWHGXD** Textured white **DSSTXD** Textured sandstone			

Accessories

Ordered and shipped separately.

DSXW1 U — House-side shield (one per light engine)
DSXW1BW U — Bird-deterrent spikes
DSXW1VG U — Vandal guard accessory

NOTES
1 Only available with P1 and P6 Packages.
2 Not available with 57K.
3 Only Available with AMCRI.
4 Not available with HS Option.
5 Only available for 120, 208, 240, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
6 Not available with P1 package. Not available with motion/ambient light sensors (PIR or PIRH). Not Available with DMG.
7 Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory. Not Available with E20WC or E10WH.
8 Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
9 Reference Motion Sensor table on page 3. Not available with DMG.
10 Not compatible with conduit entry applications. Not available with BBW (Surface-mounted back box). Not available with SF and DF fusing. Not available with 347, 480, HVOLT, +Bluetooth or Emergency components located in back box housing. Not available with SPD.
11 Not available with E20WC and E10WH.
12 Also available as a separate accessory; see Accessories information.

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Ⓒ LITHONIA LIGHTING DSXW1P1 AMBLW T3M MOUNTING HEIGHT — 9'

REVISION DATE
1 - 6 JUL 2021
2 - 6 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2023
6 - 26 SEP 2025
7 - 31 OCT 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2198
DATE
18 JUN 2021

E7.2

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PIPING SYSTEMS

NEW CONSTRUCTION SPRINKLER HEADS

SYMBOL	DESCRIPTION
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	PENDANT CONCEALED SPRINKLER HEAD
	PENDANT DRY SPRINKLER HEAD
	STANDARD SIDEWALL SPRINKLER HEAD HORIZONTAL
	STANDARD SIDEWALL SPRINKLER HEAD VERTICAL
W	PENDENT WINDOW SPRINKLER HEAD
	CARBON DIOXIDE NOZZLE

NEW CONSTRUCTION PIPING SYSTEMS

	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	PENDANT CONCEALED SPRINKLER HEAD
	PENDANT DRY SPRINKLER HEAD
	STANDARD SIDEWALL SPRINKLER HEAD HORIZONTAL
	STANDARD SIDEWALL SPRINKLER HEAD VERTICAL
W	PENDENT WINDOW SPRINKLER HEAD
	CARBON DIOXIDE NOZZLE

SYSTEMS ABBREVIATIONS

ABBREVIATION	SYSTEM NAME
FPD	FIRE PROTECTION DRY
FPW	FIRE PROTECTION WET

FP ABBREVIATIONS

KEY NAME	COMMENT
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLD	BUILDING
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CM	COFFEE MAKER
CO	CLEANOUT
CSW	COLD SOFT WATER
CV	CHECK VALVE
CW	COLD WATER
D	DRAIN
DET	DETAIL
DFU	DRAINAGE FIXTURE UNITS
DIA, Ø	DIAMETER
DN	DOWN
DT	FOUNDATION DRAIN TILE
DV	DRAIN VALVE
DWG	DRAWING
DWS	DOMESTIC WATER SERVICE
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
EP	ELEVATOR PUMP
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF ELEV	FINISH FLOOR ELEVATION
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET
GF	GLYCOL FILL STATION
GPM	GALLON PER MINUTE
HD	HUB DRAIN
HW	HOT WATER
HWR	HOT WATER RETURN
ICW	INDUSTRIAL COLD WATER
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MB	MOP BASIN
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NFWH	NON FREEZE WALL HYDRANT
NO	NORMALLY OPEN
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
P	PUMP
PC	PLUMBING CONTRACTOR
PCP	PUMP CONTROL PANEL
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PW	PRESSURIZED WASTE
REX	REMOVE EXISTING
RP	RECIRCULATION PUMP
SAIN	SANITARY WASTE
SK	SINK
SP	SUMP PUMP
SPEC	SPECIFICATION
ST	STORM, PUMP DISCHARGE TO MEET PRESSURIZED WASTE PIPING REQUIREMENTS
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TBD	TO BE DETERMINED
TDH	TOTAL DYNAMIC HEAD
TEMP or T	TEMPERATURE
THX	THERMAL EXPANSION TANK
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
VTR	VENT THRU ROOF
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WCO	YARD CLEANOUT
WHA	WATER HAMMER ARRESTER
WS	WATER SOFTENER
°	DEGREE
°F	DEGREES FAHRENHEIT
ø	DIAMETER

SYMBOLS LIST

SYMBOL	DESCRIPTION
	ELBOW DOWN
	ELBOW UP
	TEE DN
	TEE UP
	FIXTURE TRAP
	CHECK VALVE
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	PENDANT DRY SPRINKLER HEAD
	STANDARD SIDEWALL SPRINKLER HEAD HORIZONTAL
	CARBON DIOXIDE NOZZLE
	DELUGE VALVE
	OS&Y VALVE
	ALARM CHECK VALVE
	DETECTOR CHECK VALVE WITH BY-PASS METER
	FIRE DEPARTMENT VALVE (FDV)
FEC-R/S	FIRE EXTINGUISHER RECESSED OR SURFACE
NS	NON SPRINKLED AREA
	SIAMESE FIRE DEPT. CONNECTION
	FIRE ALARM BELL
	WALL FIRE PUMP TEST HEADER
	DRY PIPE VALVE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	ANGLE GATE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
TS	OS&Y WITH TAMPER SWITCH
BF	REDUCED PRESSURE BACK FLOW PREVENTOR WITH METER BY-PASS
BF	REDUCED PRESSURE BACK FLOW PREVENTOR
	DOUBLE DETECTOR CHECK VALVE
	BALANCING COCK
	BALANCING VALVE
	BALL VALVE / ISOLATION VALVE
	OS&Y VALVE
	GATE VALVE
	GLOBE VALVE
	MIXING VALVE
	WALL SLEEVE
	UNION
	FLOOR CLEAN OUT
	CLEAN OUT
	PIPE CAP
	WALL CLEAN OUT
	STRAINER
	THERMOMETER
	PRESSURE GAUGE
	PUMP

GENERAL FIRE PROTECTION NOTES

APPLICABLE TO ALL FIRE PROTECTION DRAWINGS

1. AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA SHALL BE BASED ON LIGHT HAZARD OCCUPANCY FOR OFFICES, LOBBY, AND STAIRS WITH QUICK RESPONSE 165 DEGREES FAHRENHEIT RATED SPRINKLER HEADS. THE DENSITY REQUIREMENT SHALL BE A MINIMUM OF 0.10 GPM/SQ. FT. OVER THE HYDRAULIC MOST REMOTE 1500 SQ. FT. STORAGE, MECHANICAL ROOM SHALL BE BASED ON ORDINARY HAZARD WITH A DENSITY OF 0.15 GPM/SQ. FT. OVER THE MOST HYDRAULIC MOST REMOTE 1500 SQ. FT
2. ALL SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA NO. 13, THE LOCAL BUILDING CODE, AND ANY REFERENCED AMENDMENTS AND STANDARDS.
3. CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED FOR THIS WORK.
4. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE FULL EXTENT OF THE WORK AND THE EXACT LOCATION, ELEVATION, ETC, OF PIPING. COORDINATE ALL WORK WITH THE RESPECTIVE TRADES.
5. PROVIDE ALL REQUIRED CUTTING, DRILLING AND PATCHING. NO STRUCTURAL WORK TO BE CUT WITHOUT PREVIOUS APPROVAL OF THE ARCHITECT. PATCH ALL DISTURBED WALLS, CEILINGS AND FLOORS TO MATCH ADJACENT SURFACES AS NECESSARY.
6. WATER PRESSURE AND SUPPLY INFORMATION: FIELD VERIFY ALL PRESSURES AND CAPACITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR FLOW TEST INFORMATION. CONTRACTOR SHALL VERIFY FIRE PUMP SIZE UPON COMPLETION OF FLOW TEST.
7. SPRINKLER PIPE SIZING SHALL BE HYDRAULICALLY CALCULATED.
8. WHERE CEILINGS OCCUR USE CONCEALED PENDANT TYPE SPRINKLER HEADS.
9. WHERE THERE ARE NO CEILINGS PROVIDE UPRIGHT SPRINKLER HEADS.
10. MAINTAIN MINIMUM CLEARANCE OF 18" OR GREATER BETWEEN SPRINKLER HEAD DEFLECTOR AND THE TOP OF STORAGE.
11. CONTRACTOR SHALL INSTALL METAL SPRINKLER CABINET CONTAINING TWO SETS OF SPRINKLER WRENCHES COMPATIBLE WITH EACH TYPE OF SPRINKLER PROVIDED AND THE NUMBER OF SPARE SPRINKLERS OF EACH TYPE, FINISH AND TEMPERATURE RATING AS REQUIRED BY SECTION 6.2.9 OF NFPA 13.
12. EACH SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR TWO HOURS. THE TEST SHALL CONFORM TO NFPA STANDARDS AND WITNESSED BY AUTHORITY HAVING JURISDICTION.
13. SPRINKLERS SHALL BE INSTALLED BENEATH DUCTWORK OR OTHER OBSTRUCTIONS 48" OR WIDER.
14. ALL PIPING, VALVES AND DEVICES SHALL BE INSTALLED SO AS NOT TO OBSTRUCT ANY PORTION OF A WINDOW, DOORWAY, STAIRWAY OR PASSAGEWAY OR ANY PIECE OF MECHANICAL OR ELECTRICAL EQUIPMENT.
15. EVERY SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY SHALL HAVE ALL NECESSARY VALVES, TAMPER SWITCHES, WATERFLOW INDICATORS AND COMBINATION INSPECTORS TEST AND DRAIN FITTINGS.
16. ALL HANGERS AND METHODS FOR HANGING SHALL BE IN ACCORDANCE WITH NFPA STANDARDS.
17. FACTORY MUTUAL RESEARCH CORPORATION APPROVED EQUIPMENT SHALL BE PROVIDED WHERE APPLICABLE AND DETAILS OF THE INSTALLATIONS SHALL CONFORM TO FACTORY MUTUAL'S RECOMMENDED PRACTICES.
18. DO NOT INSTALL PIPING OR SPRINKLER HEADS IN HIGH VOLTAGE (OVER 480 V) ELECTRICAL CLOSETS, TRANSFORMER ROOMS, OR ELEVATOR EQUIPMENT ROOMS. THESE AREAS SHALL HAVE HEAT DETECTORS FURNISHED AND INSTALLED BY ELECTRIC CONTRACTOR (U.N.O.).
19. PIPING SHALL NOT BE ROUTED THROUGH OR OVER ANY TELEPHONE EQUIPMENT, ELECTRICAL EQUIPMENT, COMMUNICATION ROOMS OR SIMILAR AREAS.
20. ALL SPRINKLERS LOCATED IN SUSPENDED CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE TILE.
21. ALL FLOOR CONTROL VALVE ASSEMBLIES ARE TO BE LOCATED WITHIN THE STAIR ENCLOSURE. CONTROL VALVES ARE TO BE SUPERVISED AND LOCKED IN THE OPEN POSITION.
22. ALL SPRINKLER SYSTEMS SHOWN SHALL BE WET UNLESS OTHERWISE NOTED. MULTIPLE FIRE DEPARTMENT CONNECTIONS ARE REQUIRED AS SHOWN.
23. TESTING OF FIRE PUMP MUST BE SAFELY ACCOMPLISHED WITH NO MORE THAN 100 FT. OF HOSE.
24. PIPE ROUTING IS FOR DIAGRAMMATIC PURPOSES ONLY, SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PIPE ROUTING, HEAD LOCATIONS, AND PIPE SIZING BASED ON HYDRAULIC CALCULATIONS.
25. SPRINKLER CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF SPRINKLER PIPING AND HEADS WITH OTHER TRADES. AVOID ALL DUCTWORK, LIGHTING FIXTURES, DIFFUSERS, ETC.
26. PIPES, DUCTS, CONDUITS AND ELECTRICAL CABLE TRAYS WHICH PASS THROUGH EXISTING AND NEW FIRE-RESISTIVE BARRIERS, INCLUDING FLOOR SLABS AND WALLS, SHALL BE FIRE SEALED TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTIVE BARRIER. ALL EXPOSED PIPES PASSING THROUGH A WALL, CEILING OR FLOOR SHALL HAVE CHROME ESCUTCHEON PLATES.
27. SPRINKLER SYSTEM SHALL BE INSTALLED SO THAT DRAINING OF THE ENTIRE SYSTEM IS POSSIBLE AS PER NFPA NO. 13.
28. SPRINKLER CONTRACTOR SHALL SUBMIT SPRINKLER PLAN LAYOUT, INCLUDING PIPE SUPPORT LOCATIONS AND TYPES. SUBMITTALS SHALL INCLUDE PENETRATIONS AND DETAILS.
29. ABOVE-GROUND SPRINKLER PIPING SHALL BE: BLACK STEEL, WELDED OR SEAMLESS; ASTM A 795; GALVANIZED STEEL WELDED OR SEAMLESS; ANSI/ASTM A 53; WROUGHT STEEL; ANSI B36.10M; STEEL, ELECTRONIC-RESISTANCE WELDED; ASTM A 135;
30. SCREWED UNIONS SHALL NOT BE USED ON PIPE LARGER THAN 2". COUPLINGS AND UNIONS OF OTHER THAN SCREWED-TYPE SHALL BE OF TYPES LISTED SPECIFICALLY FOR USE IN SPRINKLER SYSTEMS.
31. PROVIDE SIDEWALL SPRINKLER HEAD AT BOTTOM OF ELEVATOR SHAFT. LOCATE SPRINKLER HEAD WITHIN ELEVATOR PIT SAFETY ZONE. PROVIDE AN ISOLATION VALVE IN THE LOCKED OPEN POSITION UPSTREAM OF SPRINKLER.
32. CONCEALED SPRINKLER HEADS TO BE INSTALLED IN ALL FINISHED SPACES WITH CEILING U.N.O.
33. ALL SPRINKLERS TO BE QUICK RESPONSE U.N.O.
34. ALL SPRINKLERS TO BE OF AN ORDINARY TEMPERATURE RATING U.N.O.
35. ALL SPRINKLERS SHALL HAVE A 5.6 K-FACTOR ORIFICE U.N.O.
36. FIRE PROTECTION SYSTEM SHALL INCLUDE ALL ITEMS FOR COMPLETE SYSTEM. SPECIFICALLY THIS IS TO INCLUDE BUT IS NOT LIMITED TO: PIPE, SUPPORTS, VALVES, GAUGES, TRIM, ALARMS, SPECIALTY DEVICES, CONTROLS, AND ITEMS INCIDENTAL TO A COMPLETE SYSTEM.
37. ADDITIONAL SPRINKLERS MAY BE REQUIRED TO PROVIDE ADEQUATE COVERAGE WHERE FURNITURE, LIGHT FIXTURES, DUCTWORK OR STRUCTURE ACT AS OBSTRUCTIONS TO A SPRINKLER SPRAY PATTERN.
38. GENERAL CONTRACTOR'S MEP/FP COORDINATOR TO SUBMIT MEP/FP COORDINATION DRAWINGS FOR "REVIEW OF DESIGN INTENT" INDICATING COORDINATION OF ALL TRADES PRIOR TO PLACEMENT OF MEP/FP WORK. DRAWINGS TO BE SUBMITTED AFTER SPRINKLER DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY BFP AND SUBSEQUENTLY COORDINATED WITH ALL OTHER TRADES.

DRY VALVE

TAG ABBR.	TAG #	AREA SERVED	RISER MOUNTED AIR COMPRESSOR MODEL #	ELECTRICAL DATA HP	VOLTAGE	PHASE	MANUFACTURER	MODEL	REMARKS
DV	1	GARAGE LEVEL 1	SERIES 7C7 FIRELOCK	1	120 V	1	VICTAULIC	FIRELOCK NXT SERIES 768N	1.
DV	2	GARAGE LEVEL 2	SERIES 7C7 FIRELOCK	1	120 V	1	VICTAULIC	FIRELOCK NXT SERIES 768N	1.

1. PROVIDE SERIES 7C7 FIRELOCK COMPRESSOR PACKAGE BY VICTAULIC.

FIRE PUMP/JOCKEY PUMP

TAG ABBR.	TAG #	CAPACITY (GPM)	TOTAL DYNAMIC HEAD (PSI)	ELECTRICAL DATA HP	VOLTS	PH	MANUFACTURER	MODEL	REMARKS
FP	1	1250	124	150	480 V	3	A-C FIRE PUMPS	8X6X18F 8100 SERIES	--
JP	1	10	124	1	120 V	1	GOULDS	E-SV	--

FIRE PUMP CONTROLLER

TAG ABBR.	TAG #	ELECTRICAL DATA HP	VOLTS	PH	MANUFACTURER	MODEL	REMARKS
FPC	1	150	480	3	EATON	FT90	1
JPC	1	1	120	1	EATON	XTJP	--

1. PROVIDE FULL DIGITAL SOFT START CONTROLLER WITH INTEGRATED ATS.

FIRE DEPARTMENT CONNECTIONS

TAG ABBR.	TAG #	FIXTURE	MANUFACTURER	MODEL	REMARKS
FDC	1	FIRE DEPARTMENT CONNECTION	POTTER ROEMER	5021	--
FPTC	1	FIRE PUMP TEST CONNECTION	POTTER ROEMER	5865	--

GENERAL NOTE: NOT ALL SYMBOLS, NOTES AND ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

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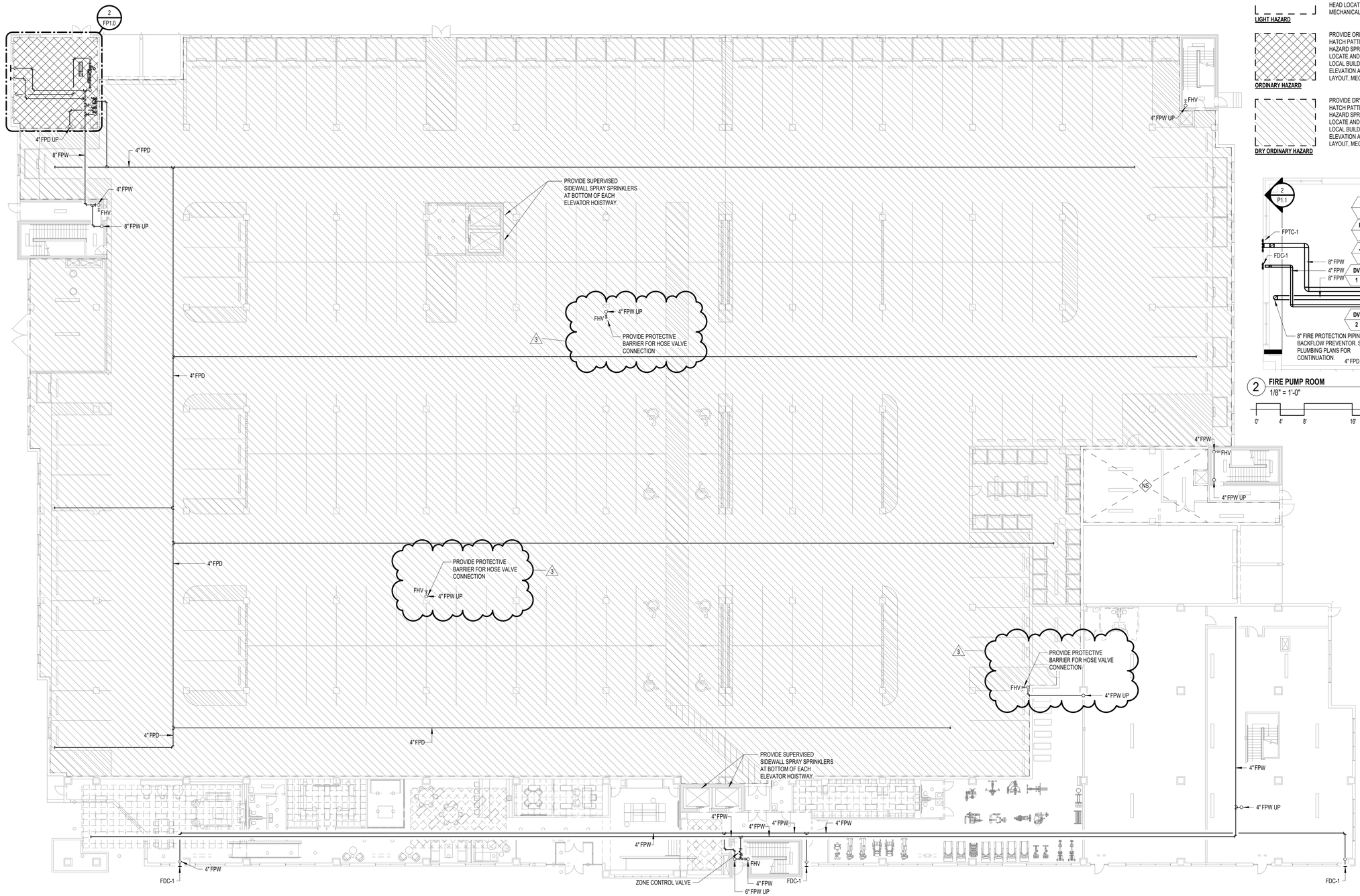

1 **1ST FLOOR - FIRE PROTECTION PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

FIRE PROTECTION NOTES

LIGHT HAZARD
PROVIDE LIGHT HAZARD SPRINKLER COVERAGE. LACK OF HATCH PATTERN INDICATES AREA OF LIGHT HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS HEADS PER LOCAL CODE AND COORDINATE ELEVATION AND HEAD LOCATIONS WITH CEILING LAYOUT, MECHANICAL EQUIPMENT AND LIGHTING.

ORDINARY HAZARD
PROVIDE ORDINARY HAZARD SPRINKLER COVERAGE. HATCH PATTERN INDICATES AREA OF ORDINARY HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS HEADS PER LOCAL BUILDING CODE AND COORDINATE ELEVATION AND HEAD LOCATIONS WITH CEILING LAYOUT, MECHANICAL EQUIPMENT AND LIGHTING.

DRY ORDINARY HAZARD
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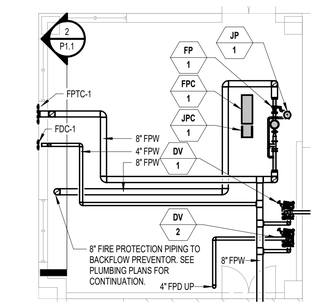

2 **FIRE PUMP ROOM**
1/8" = 1'-0"

0' 4' 8' 16' 32'

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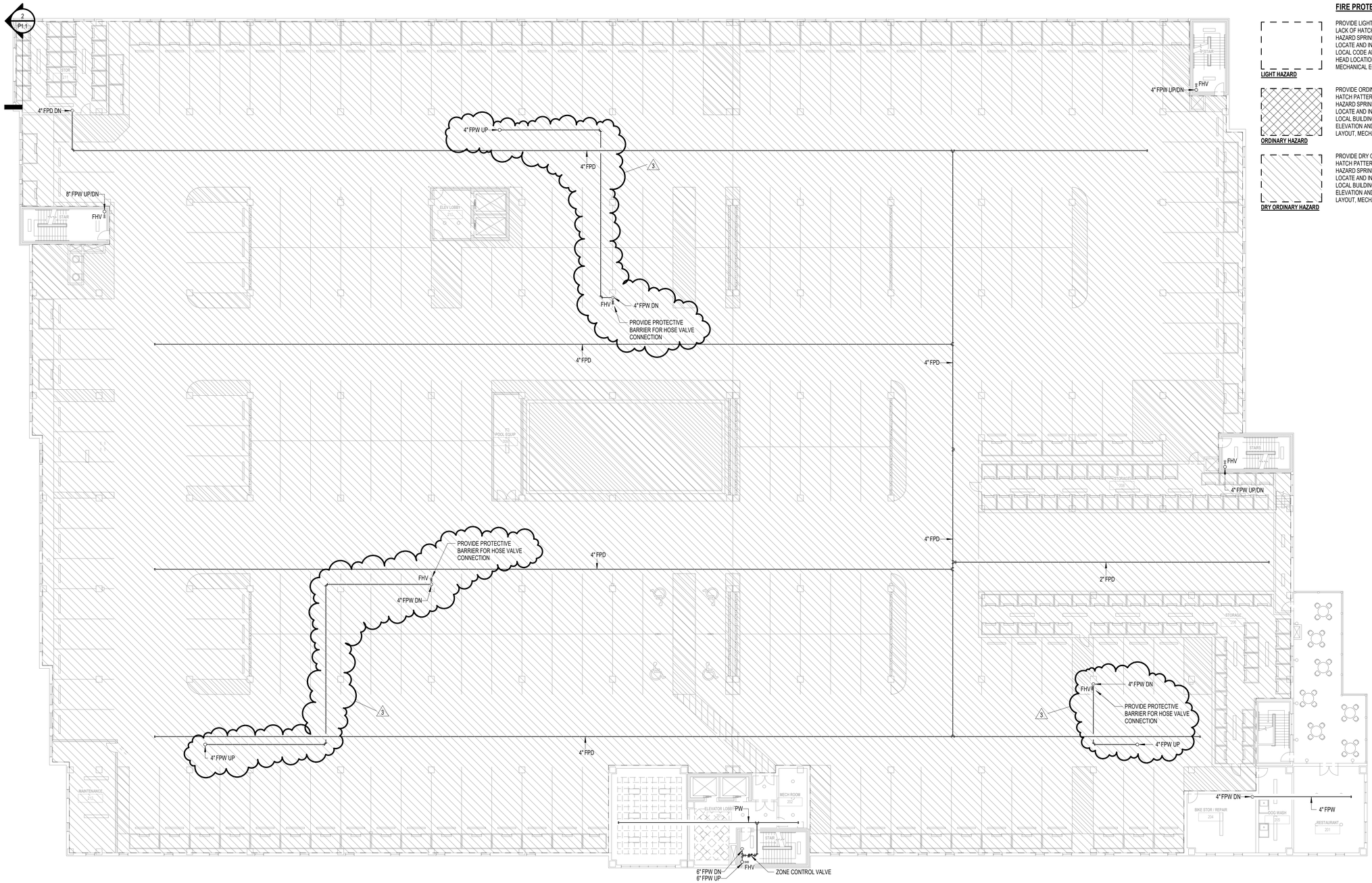

1 **SECOND FLOOR-FIRE PROTECTION PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

N

FIRE PROTECTION NOTES

LIGHT HAZARD

PROVIDE LIGHT HAZARD SPRINKLER COVERAGE. LACK OF HATCH PATTERN INDICATES AREA OF LIGHT HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS HEADS PER LOCAL CODE AND COORDINATE ELEVATION AND HEAD LOCATIONS WITH CEILING LAYOUT, MECHANICAL EQUIPMENT AND LIGHTING.

ORDINARY HAZARD

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DRY ORDINARY HAZARD

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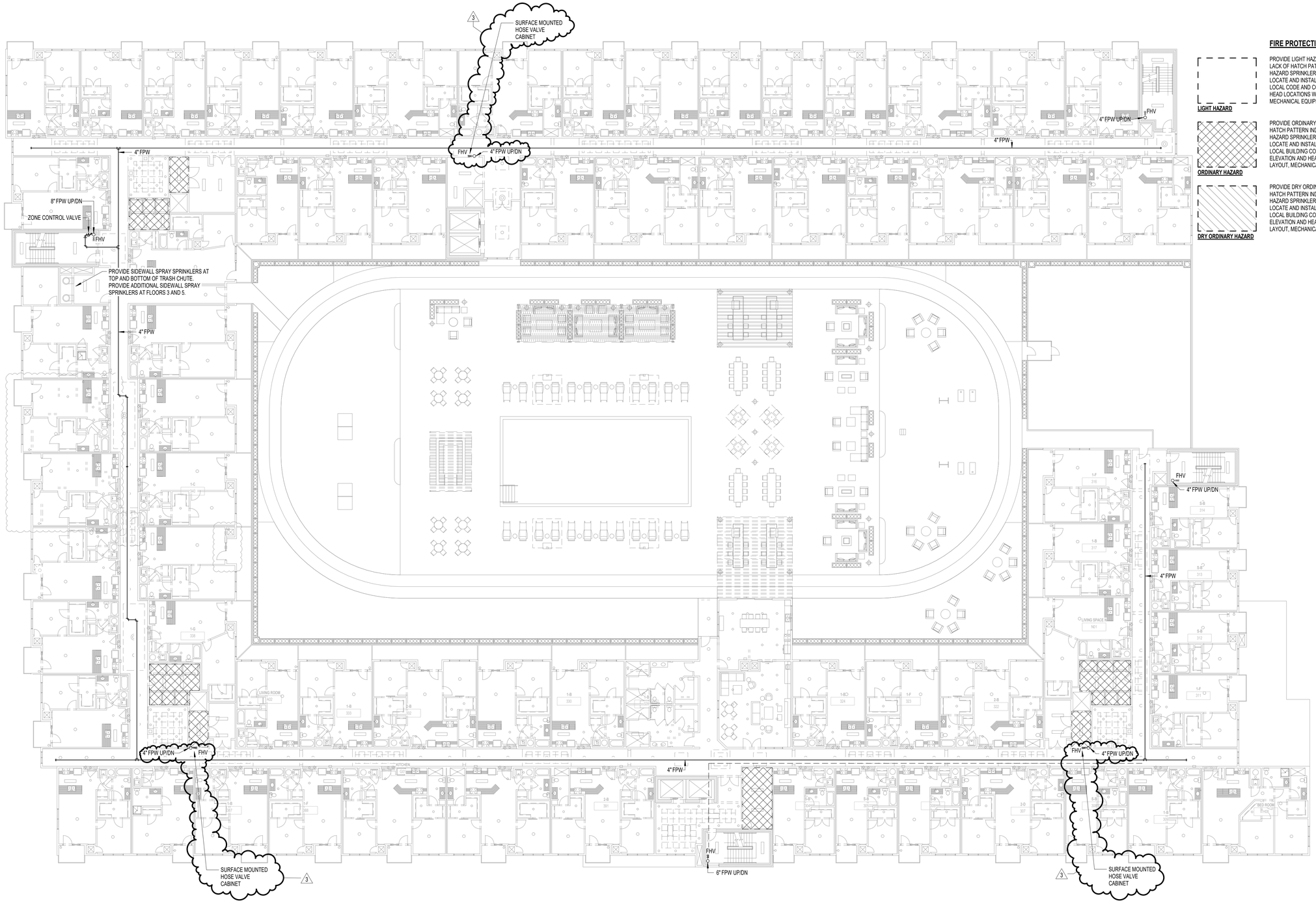

FIRE PROTECTION NOTES

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DRY ORDINARY HAZARD

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1 **THIRD FLOOR-FIRE PROTECTION PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

N

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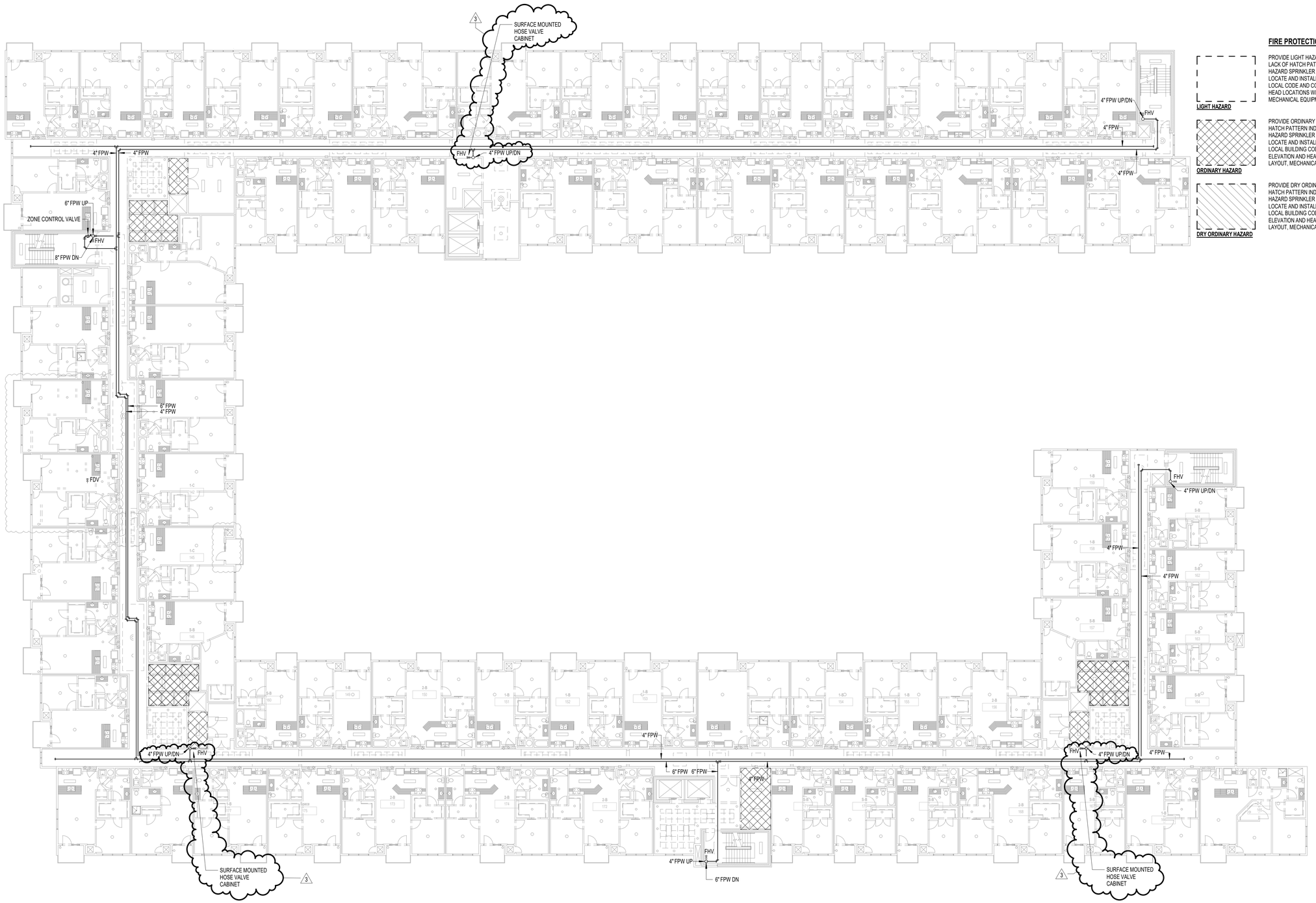

FIRE PROTECTION NOTES

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LIGHT HAZARD

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DRY ORDINARY HAZARD

1 **FOURTH FLOOR-FIRE PROTECTION PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

N

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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

FP1.4

JONES & JONES ASSOCIATES ARCHITECTS PC

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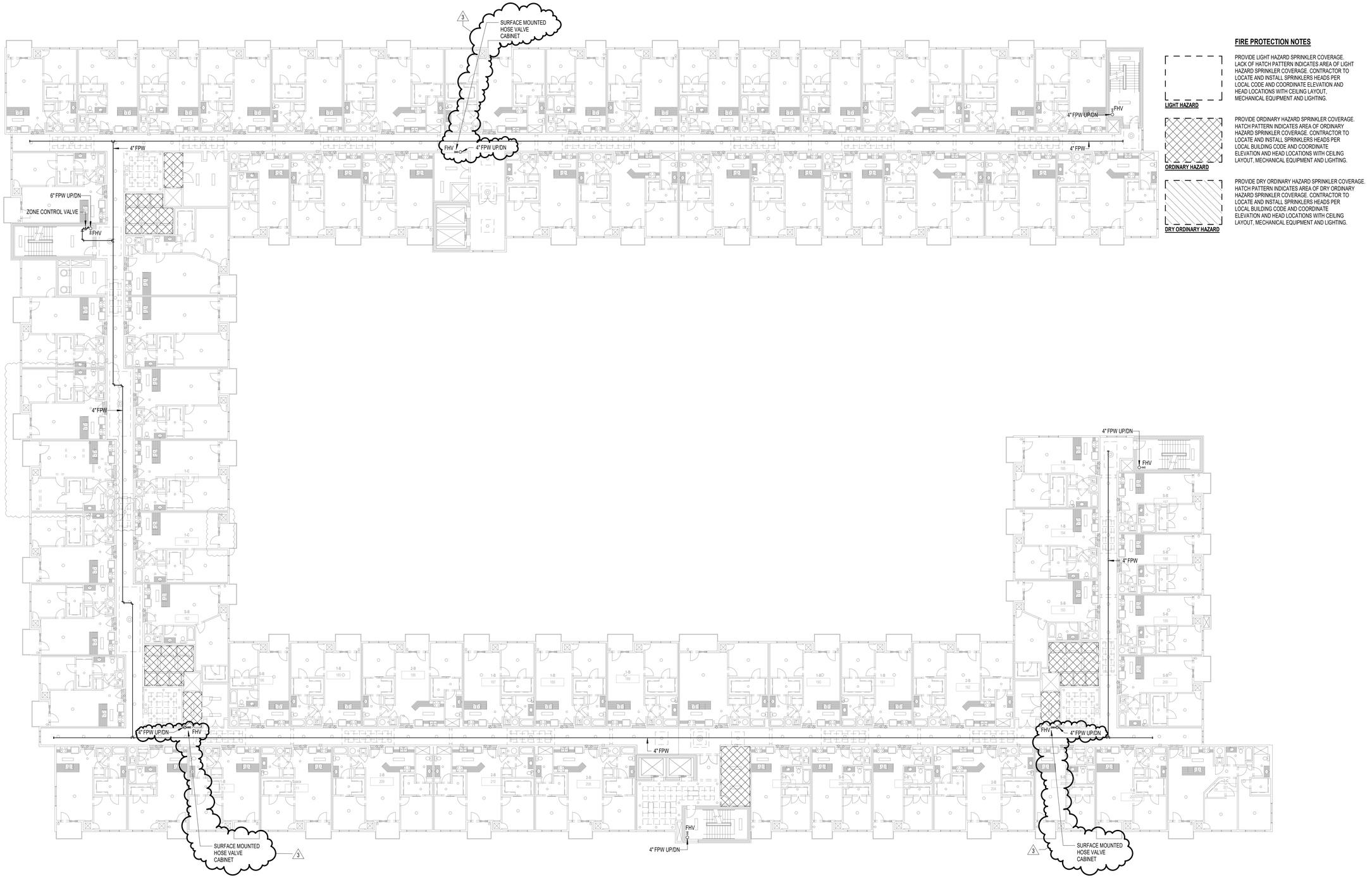

FIRE PROTECTION NOTES

LIGHT HAZARD
PROVIDE LIGHT HAZARD SPRINKLER COVERAGE. LACK OF HATCH PATTERN INDICATES AREA OF LIGHT HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS HEADS PER LOCAL CODE AND COORDINATE ELEVATION AND HEAD LOCATIONS WITH CEILING LAYOUT, MECHANICAL EQUIPMENT AND LIGHTING.

ORDINARY HAZARD
PROVIDE ORDINARY HAZARD SPRINKLER COVERAGE. HATCH PATTERN INDICATES AREA OF ORDINARY HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS HEADS PER LOCAL BUILDING CODE AND COORDINATE ELEVATION AND HEAD LOCATIONS WITH CEILING LAYOUT, MECHANICAL EQUIPMENT AND LIGHTING.

DRY ORDINARY HAZARD
PROVIDE DRY ORDINARY HAZARD SPRINKLER COVERAGE. HATCH PATTERN INDICATES AREA OF DRY ORDINARY HAZARD SPRINKLER COVERAGE. CONTRACTOR TO LOCATE AND INSTALL SPRINKLERS HEADS PER LOCAL BUILDING CODE AND COORDINATE ELEVATION AND HEAD LOCATIONS WITH CEILING LAYOUT, MECHANICAL EQUIPMENT AND LIGHTING.

1 **TYPICAL FIFTH THROUGH SEVENTH FLOOR-FIRE PROTECTION PLAN**
1/16" = 1'-0"

0' 8' 16' 32' 64'

N

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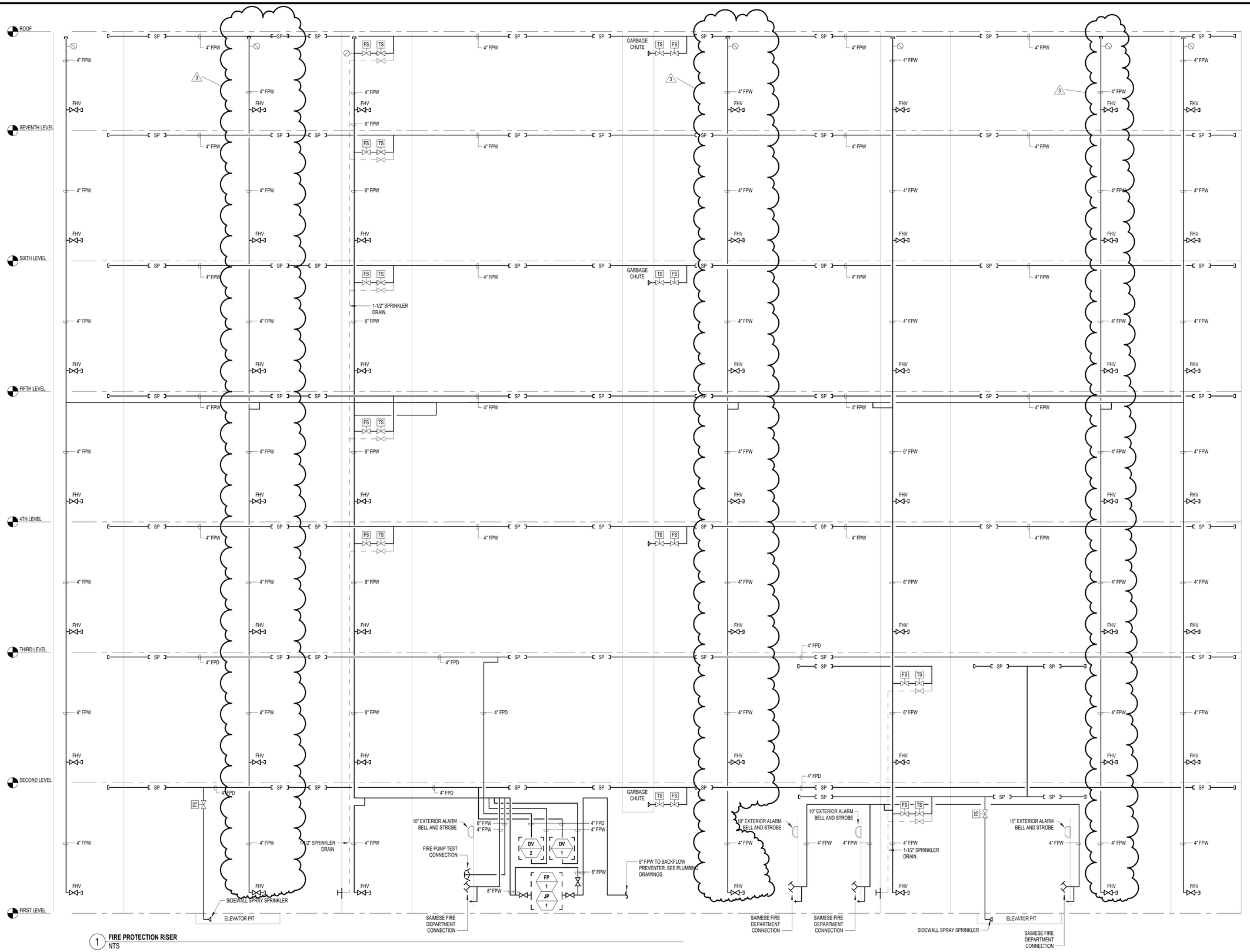

1 **FIRE PROTECTION RISER**
NTS

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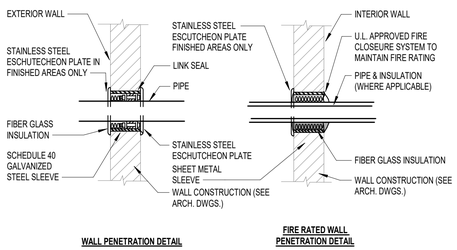

8 WALL PENETRATION
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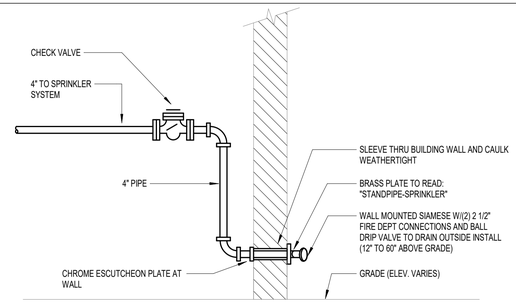

7 FIRE DEPARTMENT CONNECTION
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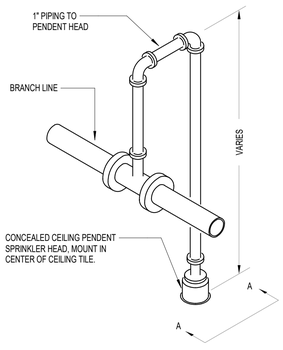
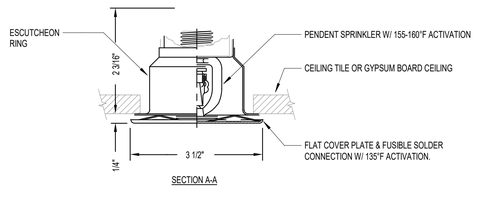
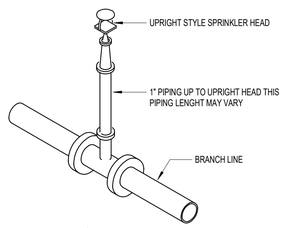


CONCEALED PENDENT SPRINKLER



SECTION A-A



UPRIGHT

3 CONCEALED SPRINKLER ARM OVER AND UPRIGHT SPRINKLER
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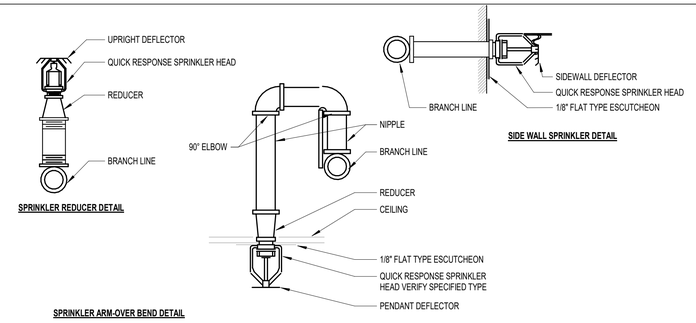

2 SPRINKLER
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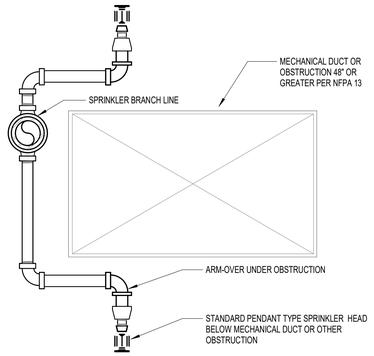

6 SPRINKLER HEAD UNDER OBSTRUCTION
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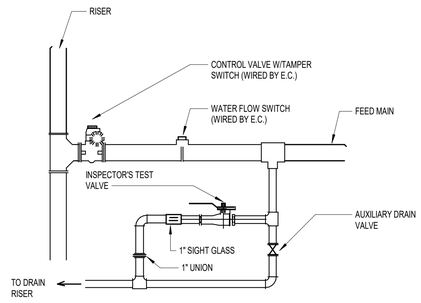

5 FLOOR CONTROL VALVE
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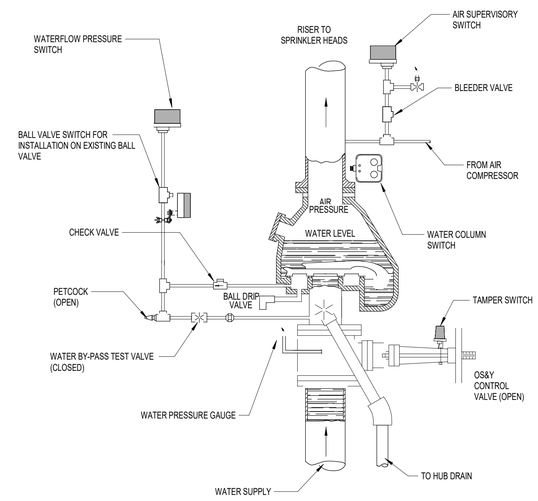

4 TYPICAL DRY VALVE
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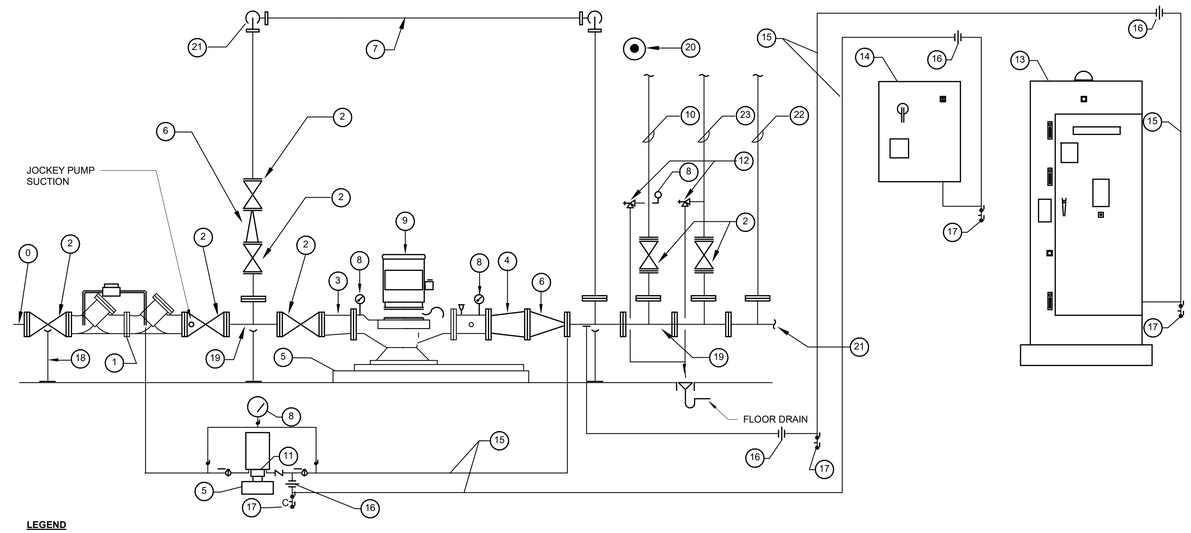

LEGEND

0. 8" INCOMING WATER SERVICE FROM STREET MAIN
1. 8" DOUBLE DETECTOR CHECK VALVE ASSY.
2. FLANGED O.S. & Y. VALVE W/TAMPER SWITCH (WIRED BY E.C.)
3. FLANGED ECCENTRIC SUCTION REDUCER
4. CONCENTRIC REDUCER
5. CONCRETE HOUSEKEEPING PAD
6. NON-SLAM CHECK VALVE
7. BY-PASS
8. PRESSURE GAUGE (TYP.)
9. PUMP. SEE SCHEDULES FOR PERFORMANCE INFORMATION
10. TO FIRE PUMP TEST HEADER
11. JOCKEY PUMP (JP)
12. MAIN DRAIN VALVE SPILL OVER FLR. DR.
13. REDUCED VOLTAGE AUTOMATIC FIRE PUMP CONTROLLER (FPC)
14. JOCKEY PUMP CONTROLLER (JPC)
15. 1/2" BRASS PIPE & FITTINGS (SENSING LINE)
16. GROUND-FACE UNION W/ ORIFICE
17. 1/2" GLOBE VALVES-TEE W/ XX" PLUG
18. PIPE STAND
19. FLANGED TEE
20. ALARM BELL (WIRED BY E.C.)
21. TO DRY VALVES
22. TO SYSTEM
23. TO FIRE DEPT. CONNECTION

1 FIRE PUMP/JOCKEY PUMP/CONTROLLER ARRANGEMENTS
NTS

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FIRE ALARM DETECTION

S	INTELLIGENT MANUAL PULL STATION
H	MAGNETICALLY HELD OPEN DOORS
D	INTELLIGENT HEAT DETECTOR
SD	INTELLIGENT SMOKE DETECTOR
DD	INTELLIGENT DUCT SMOKE DETECTOR
MM	INTELLIGENT MONITOR MODULE
IM	INTELLIGENT INTERFACE MODULE
RM	INTELLIGENT RELAY MODULE
CM	INTELLIGENT CONTROL MODULE
V	VISUAL ALARM ONLY DEVICE
V	VISUAL ALARM ONLY CEILING MOUNTED
A	AUDIBLE ALARM ONLY DEVICE
AV	AUDIBLE AND VISUAL ALARM DEVICE
AV	AUDIBLE AND VISUAL ALARM CEILING MOUNTED
AR	AREA OF RESCUE
CS	CALL STATION
CO	CARBON MONOXIDE DETECTOR
B	TROUBLE BELL WITH TEST AND SILENCE SWITCH W/LAMP
RA	REMOTE ANNUNCIATOR LAMP FOR SELECTED DEVICES
RTS	REMOTE TEST STATION
SV	SPEAKER / VISUAL ALARM
SV	SPEAKER / VISUAL ALARM CEILING MOUNTED
S	SPEAKER ALARM

ABBREVIATIONS

FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL

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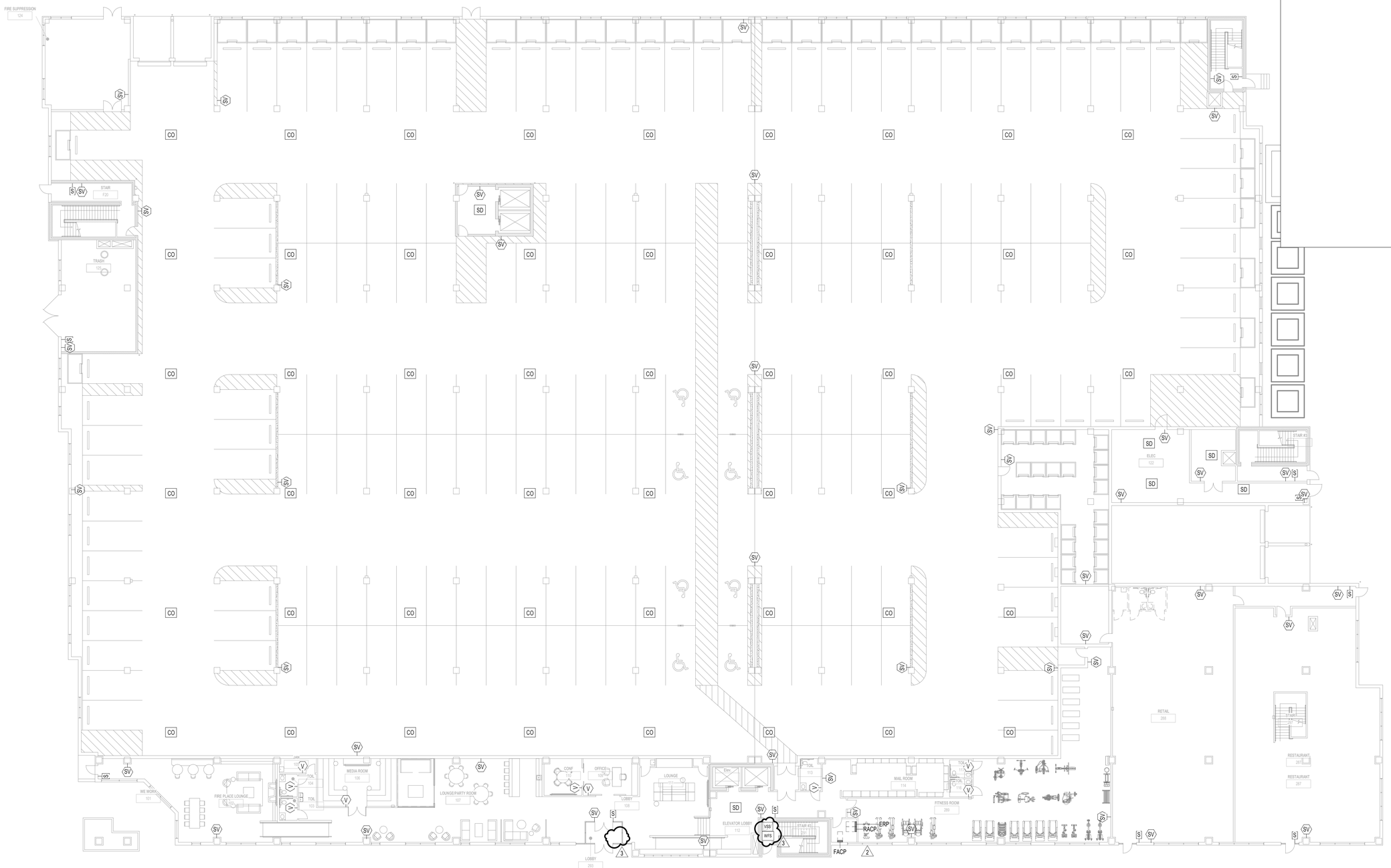
1 FIRE_NOTES, SYMBOLS & ABBREVIATIONS
NTS

GENERAL NOTES

1. REFER TO SHEET FA1.0 FOR FIRE ALARM RISER DIAGRAM.
2. COORDINATE EXACT LOCATION OF TAMPER SWITCHES WITH FIRE PROTECTION DRAWINGS.



1 **FIRST FLOOR - FIRE ALARM PLAN**
1/16" = 1'-0"

0' 4' 8' 16' 32'

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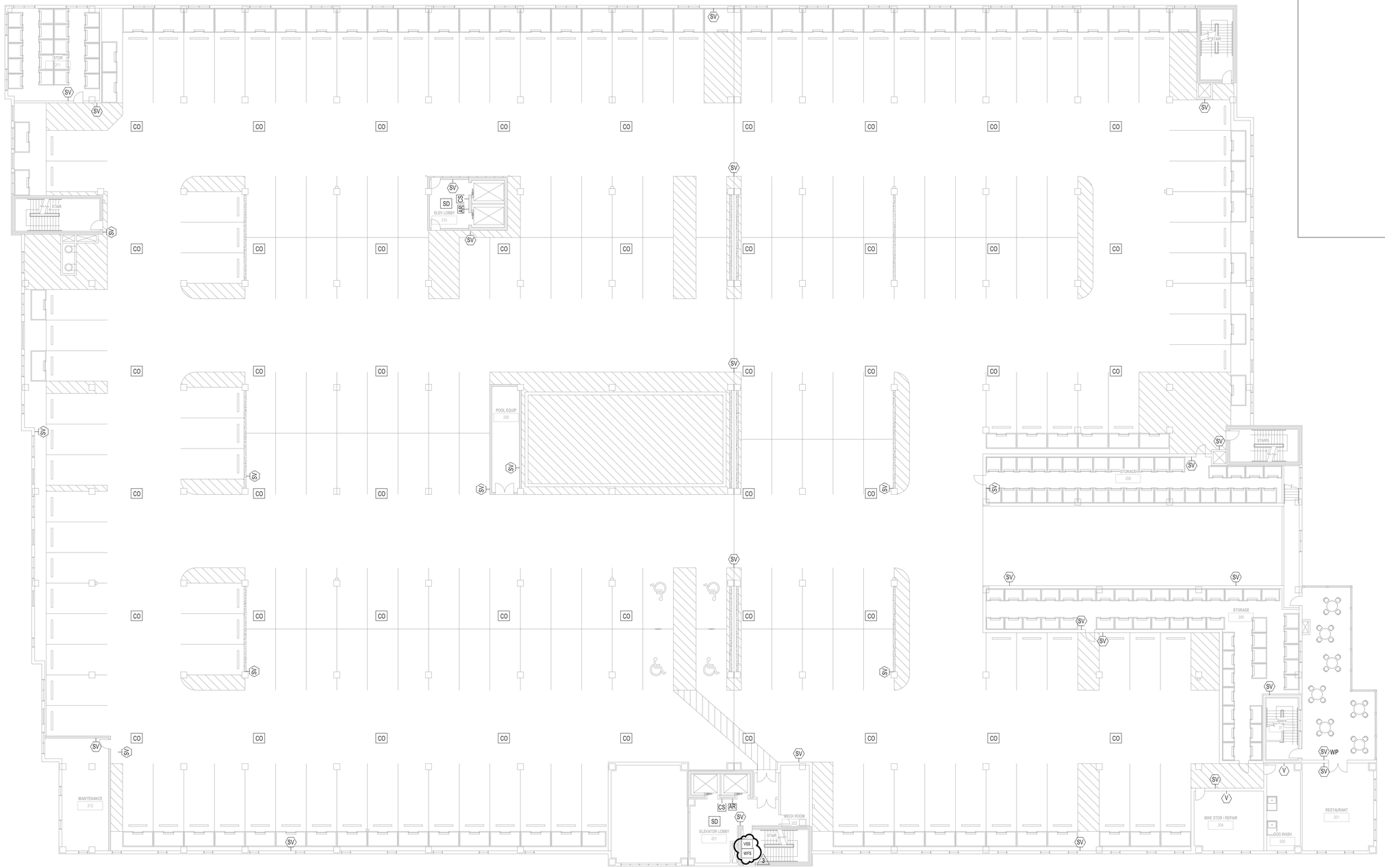
1. REFER TO SHEET FA1.0 FOR FIRE ALARM RISER DIAGRAM.
2. COORDINATE EXACT LOCATION OF TAMPER SWITCHES WITH FIRE PROTECTION DRAWINGS.

3



1 **SECOND FLOOR - FIRE ALARM PLAN**
1/16" = 1'-0"

0' 4' 8' 16' 32'

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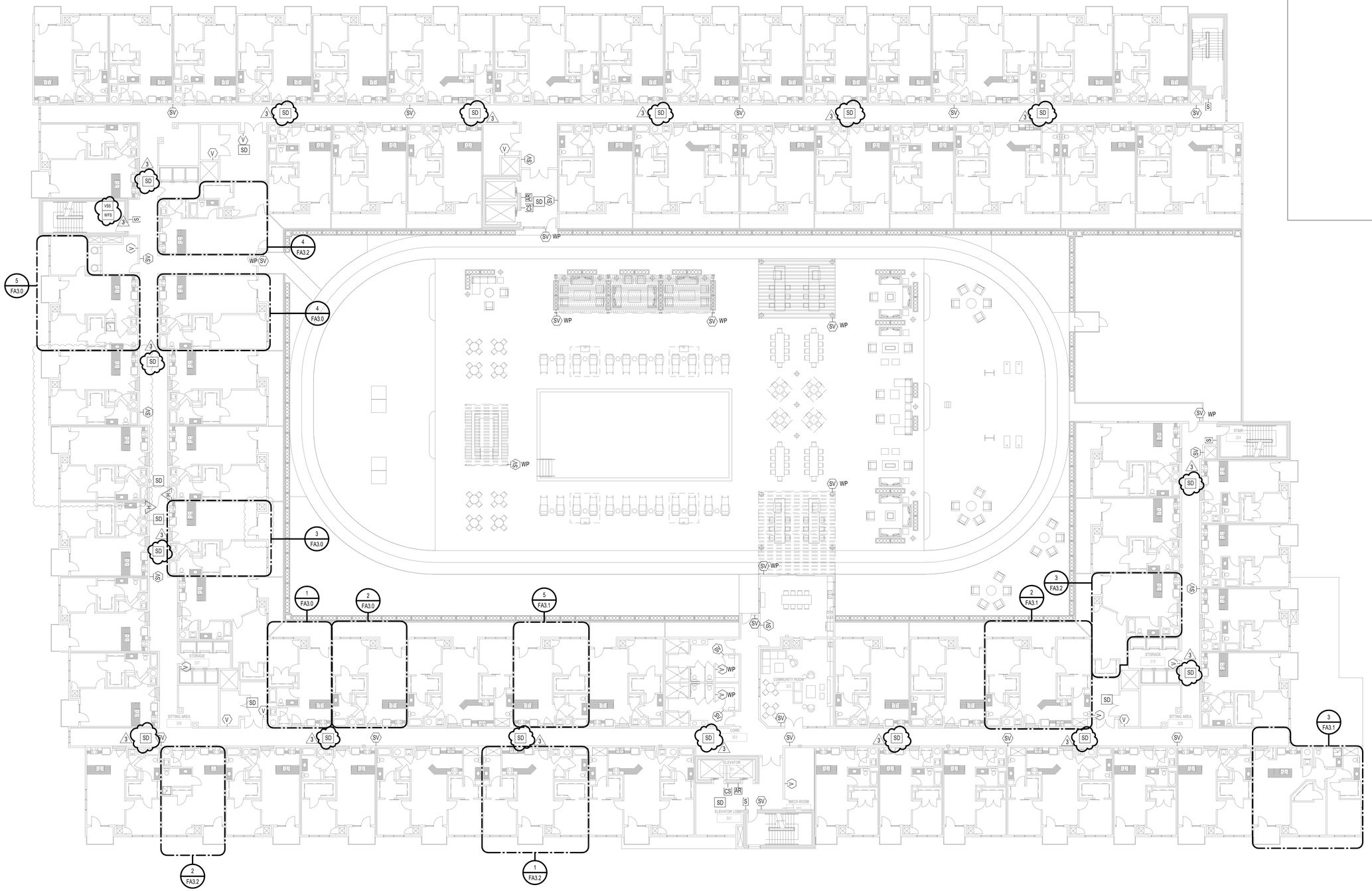
FA1.2

JONES & JONES ASSOCIATES / ARCHITECTS PC

GENERAL NOTES

1. REFER TO SHEET FA1.0 FOR FIRE ALARM LEGEND AND DIAGRAM.
2. COORDINATE EXACT LOCATION OF TAMPER SWITCHES WITH FIRE PROTECTION DRAWINGS.



1 **THIRD FLOOR - FIRE ALARM PLAN**
1/16" = 1'-0"

0' 4' 8' 16' 32'

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GENERAL NOTES

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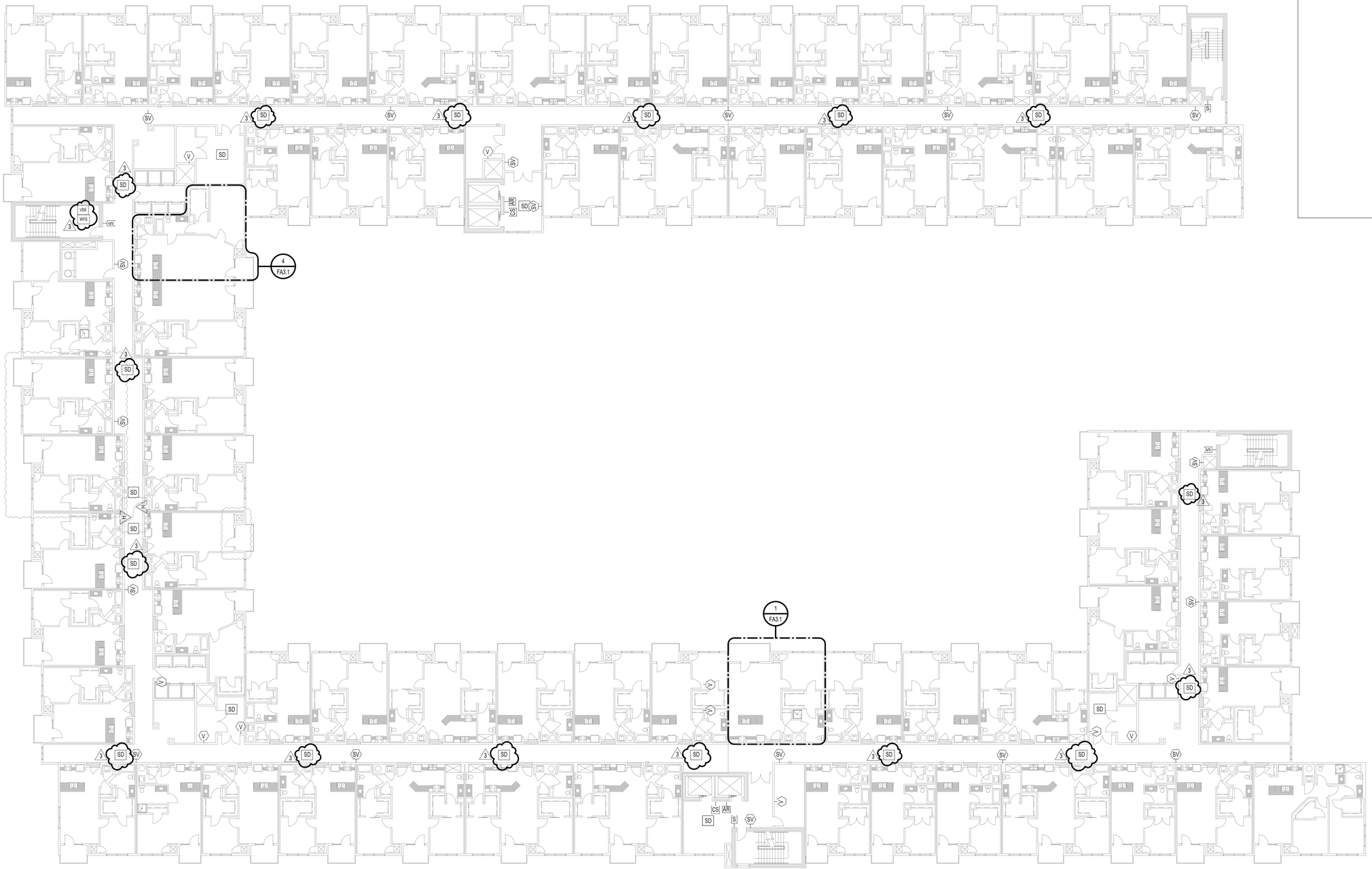

1 TYPICAL FLOOR - FIRE ALARM PLAN
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0' 4' 8' 16' 32'

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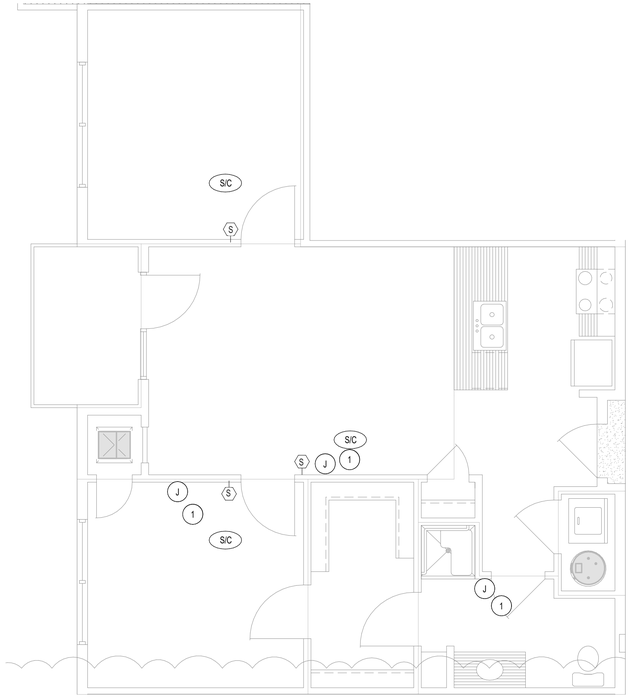
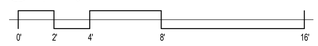
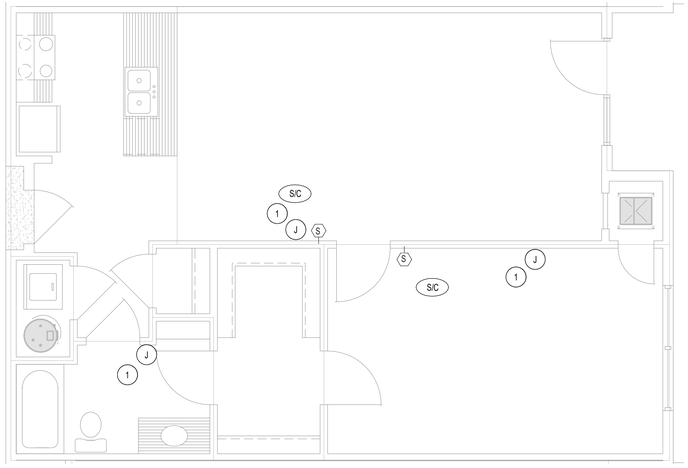


5 **ONE BEDROOM UNIT - TYPE E - FIRE ALARM PLAN**
1/4" = 1'-0"





4 **ONE BEDROOM UNIT - TYPE D - FIRE ALARM PLAN**
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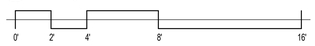

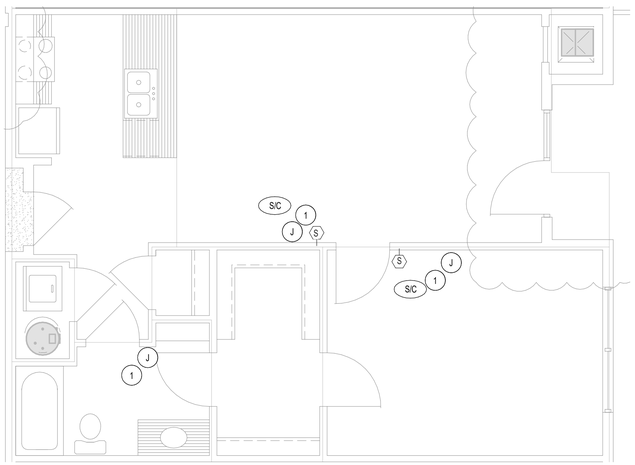

3 **ONE BEDROOM UNIT - TYPE C - FIRE ALARM PLAN**
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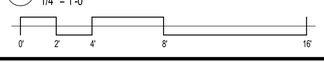

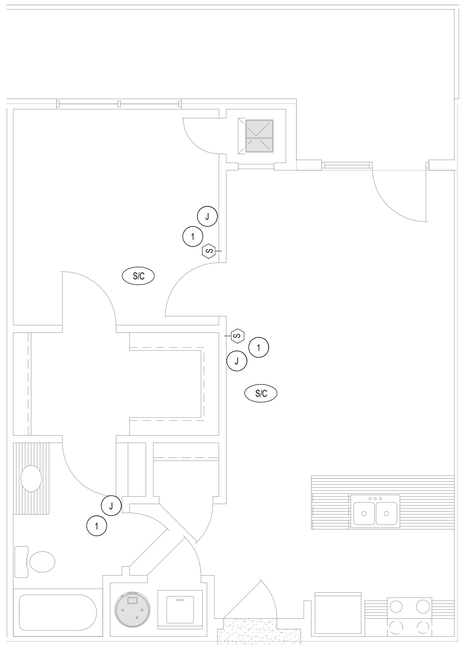

2 **ONE BEDROOM UNIT - TYPE B - FIRE ALARM PLAN**
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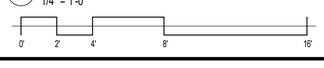
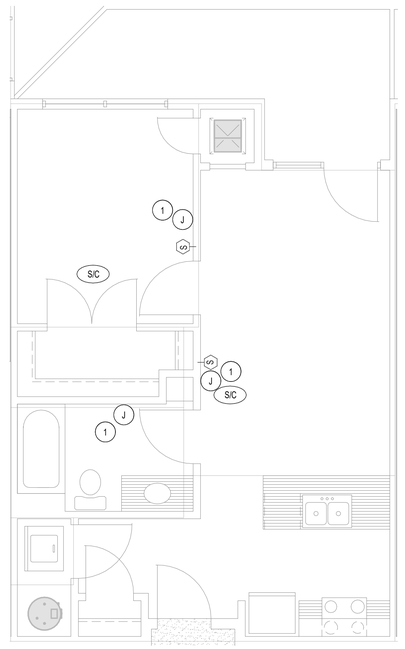
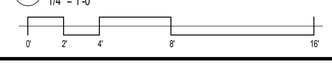




1 **ONE BEDROOM UNIT - TYPE A - FIRE ALARM PLAN**
1/4" = 1'-0"



LEGEND

S/C — 120VAC NON SYSTEM HARD-WIRED COMBINATION PHOTOELECTRIC SMOKE/CARBON MONOXIDE DETECTOR COMPLETE WITH RECESSED MOUNTED BACKBOX. CONNECT SMOKE DETECTORS TO LIGHTING CIRCUIT, AHEAD OF CONTROLS. SMOKE/CARBON MONOXIDE DETECTORS SHALL BE WIRED IN TANDEM WITHIN ONE RESIDENTIAL UNIT SO THAT IN THE EVENT OF AN ALARM AT ONE LOCATION, ALL SMOKE/CARBON MONOXIDE DETECTORS WITHIN RESIDENCE ARE ACTIVATED.

GENERAL NOTES

1. IN ALL ADAPTABLE UNITS, PROVIDE A WALL MOUNTED COMBINATION FIRE ALARM SYSTEM AUDIBLE/VISUAL DEVICE AS PER NFPA 72 AND ILLINOIS ACCESSIBILITY CODE. THE AUDIBLE DEVICE SHALL BE CALIBRATED TO PRODUCE 75 DECIBELS AT EACH BEDROOM PILLOW.
2. CONCEAL ALL CONDUIT RACEWAYS WITHIN WALLS, FLOORS AND CEILINGS EXCEPT WHERE EXPLICITLY NOTED.
3. INSTALL ALL DEVICE BACK BOXES FULLY RECESSED IN WALLS UNLESS NOTED OTHERWISE.
4. COORDINATE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN/INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
5. PROVIDE A 120VAC, NON-SYSTEM HARD-WIRED PHOTOELECTRIC COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR WITH BATTERY BACK-UP IN ALL DWELLING UNITS. INSTALL SMOKE & CO DETECTORS A MINIMUM OF 10' AWAY FROM STOVES.
6. SMOKE DETECTORS TO BE LISTED FOR RESISTANCE TO COMMON NUISANCE SOURCE.

SHEET NOTES

1 TYPICAL LOCATION OF AUDIO/VISUAL DEVICE FOR HEARING AND VISUAL IMPAIRED UNITS. HVI UNITS SHALL HAVE AUDIO/VISUAL DEVICES, WIRING AND CONDUIT. HVC UNITS SHALL ONLY HAVE EMPTY BACKBOXES WITH COVER PLATE AND CONDUIT FOR FUTURE AUDIO/VISUAL DEVICE. MOUNT DEVICES AT 90" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER. REFER TO ARCHITECTURAL SHEETS AND ACCESSIBILITY MATRIX FOR HEARING AND VISUAL IMPAIRED UNIT DESIGNATION.

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RLJ JR
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JMB
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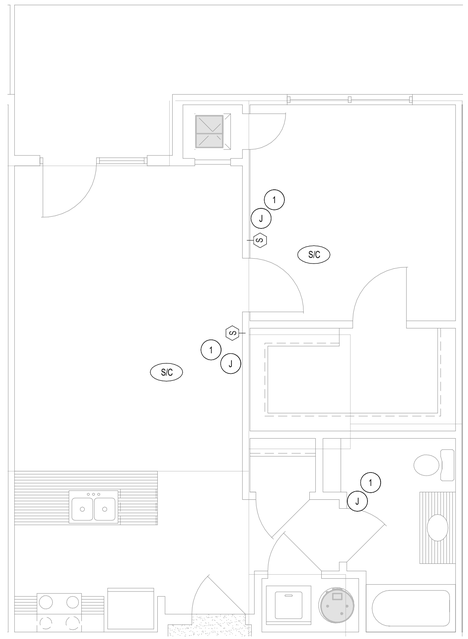
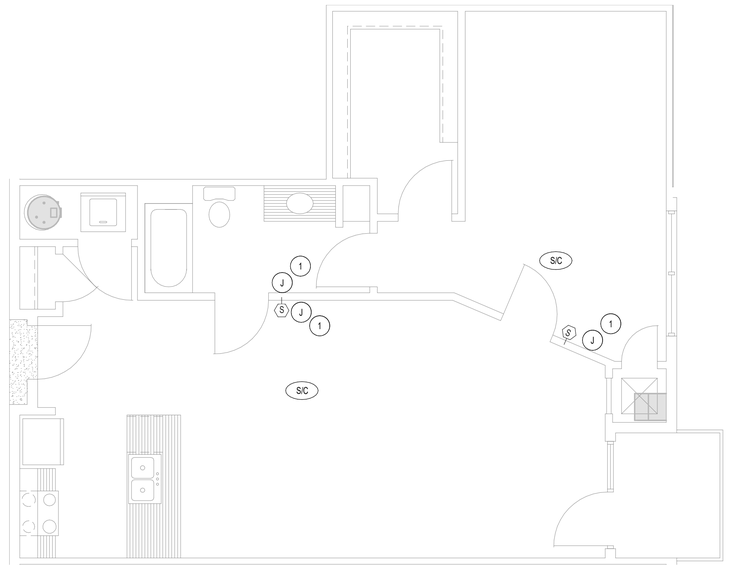
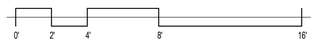
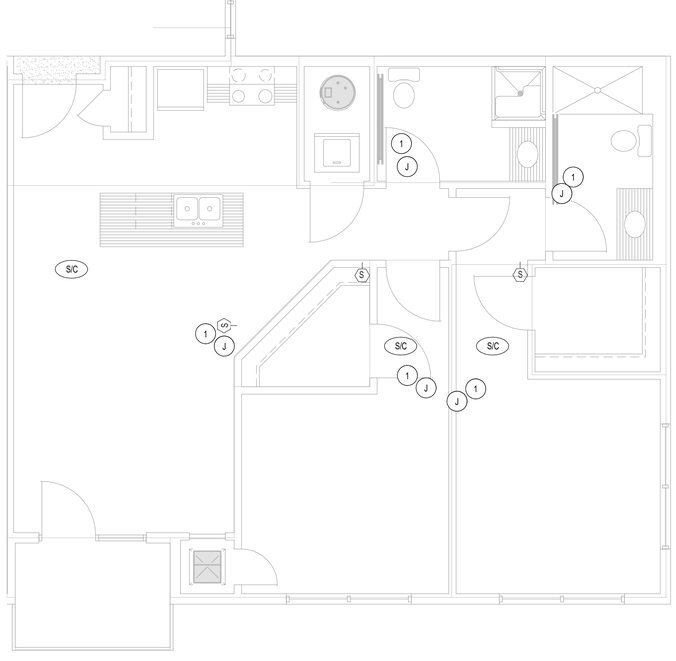


5 **ONE BEDROOM UNIT - TYPE K - FIRE ALARM PLAN**
1/4" = 1'-0"

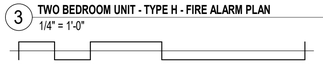


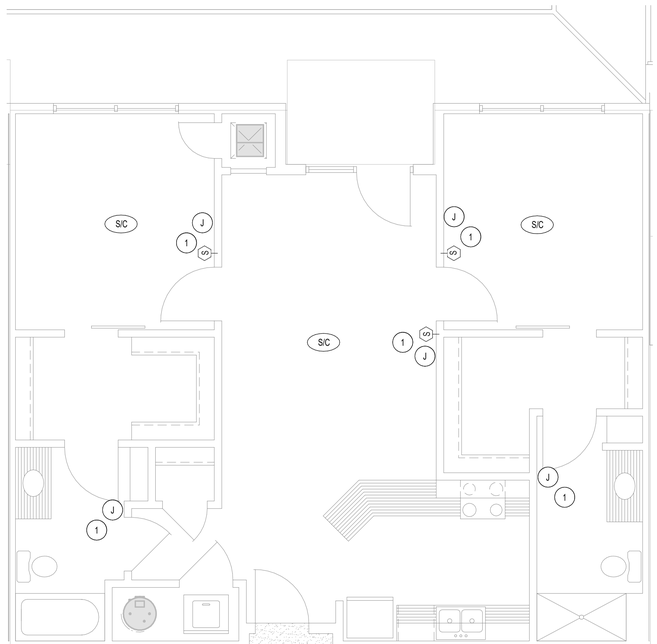
4 **ONE BEDROOM UNIT - TYPE J - FIRE ALARM PLAN**
1/4" = 1'-0"



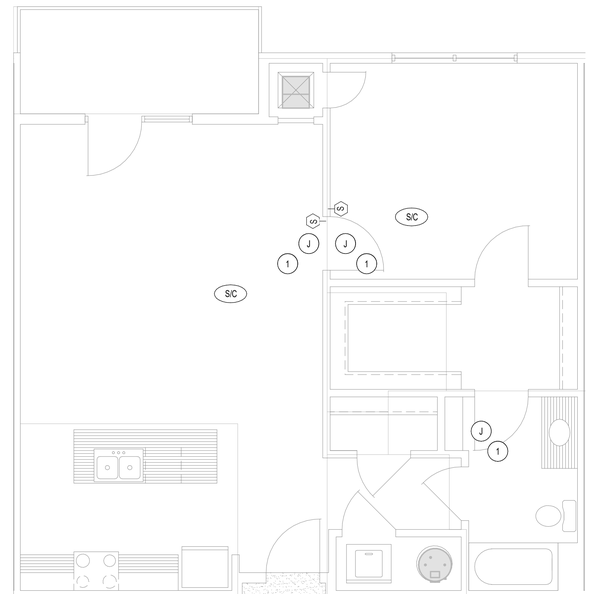


3 **TWO BEDROOM UNIT - TYPE H - FIRE ALARM PLAN**
1/4" = 1'-0"

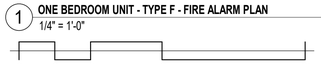




2 **TWO BEDROOM UNIT - TYPE G - FIRE ALARM PLAN**
1/4" = 1'-0"



1 **ONE BEDROOM UNIT - TYPE F - FIRE ALARM PLAN**
1/4" = 1'-0"



LEGEND

S/C — 120VAC NON SYSTEM HARD-WIRED COMBINATION PHOTOELECTRIC SMOKE/CARBON MONOXIDE DETECTOR COMPLETE WITH RECESSED MOUNTED BACKBOX. CONNECT SMOKE DETECTORS TO LIGHTING CIRCUIT, AHEAD OF CONTROLS. SMOKE/CARBON MONOXIDE DETECTORS SHALL BE WIRED IN TANDEM WITHIN ONE RESIDENTIAL UNIT SO THAT IN THE EVENT OF AN ALARM AT ONE LOCATION, ALL SMOKE/CARBON MONOXIDE DETECTORS WITHIN RESIDENCE ARE ACTIVATED.

GENERAL NOTES

1. IN ALL ADAPTABLE UNITS, PROVIDE A WALL MOUNTED COMBINATION FIRE ALARM SYSTEM AUDIBLE/VISUAL DEVICE AS PER NFPA 72 AND ILLINOIS ACCESSIBILITY CODE. THE AUDIBLE DEVICE SHALL BE CALIBRATED TO PRODUCE 75 DECIBELS AT EACH BEDROOM PILLOW.
2. CONCEAL ALL CONDUIT RACEWAYS WITHIN WALLS, FLOORS AND CEILINGS EXCEPT WHERE EXPLICITLY NOTED.
3. INSTALL ALL DEVICE BACK BOXES FULLY RECESSED IN WALLS UNLESS NOTED OTHERWISE.
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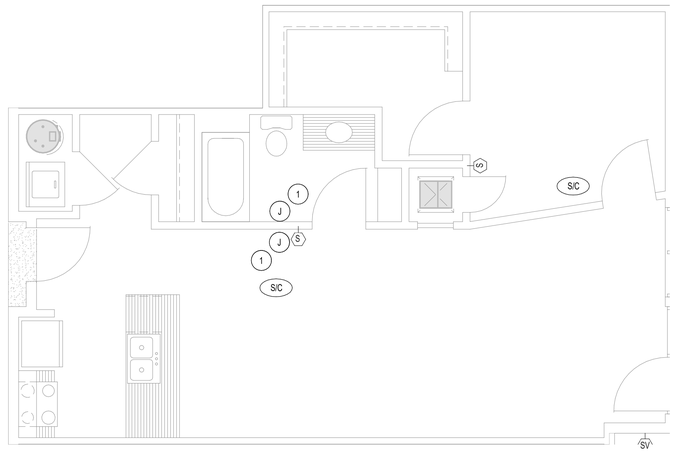
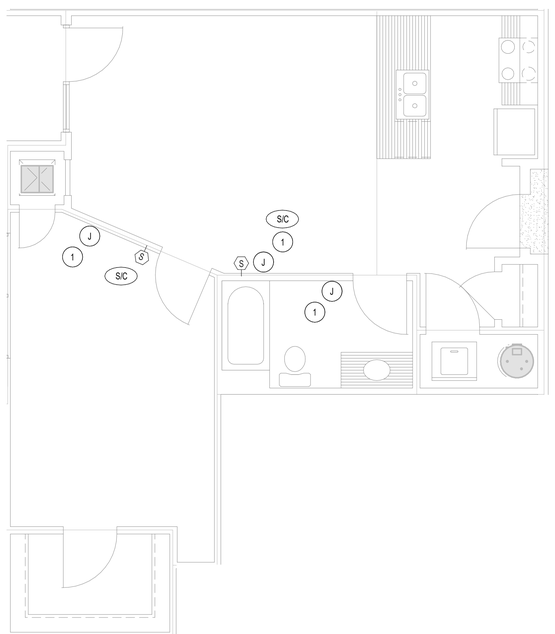


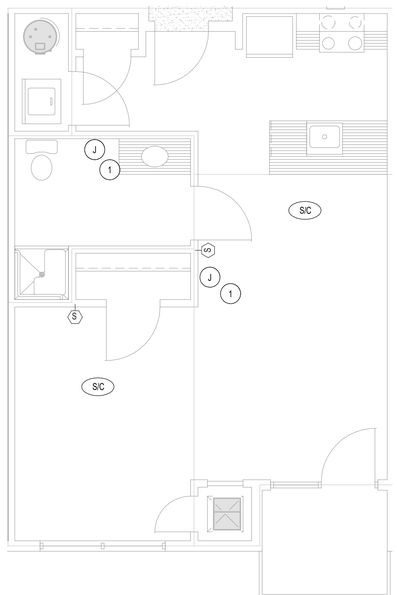
4 **STUDIO UNIT - TYPE O - FIRE ALARM PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



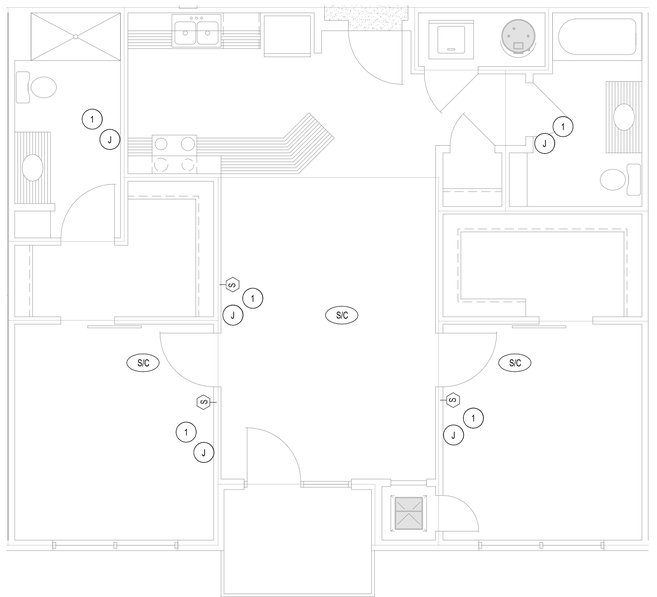
3 **ONE BEDROOM UNIT - TYPE N - FIRE ALARM PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **STUDIO UNIT - TYPE M - FIRE ALARM PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **TWO BEDROOM UNIT - TYPE L - FIRE ALARM PLAN**
1/4" = 1'-0"

0' 2' 4' 8' 16'

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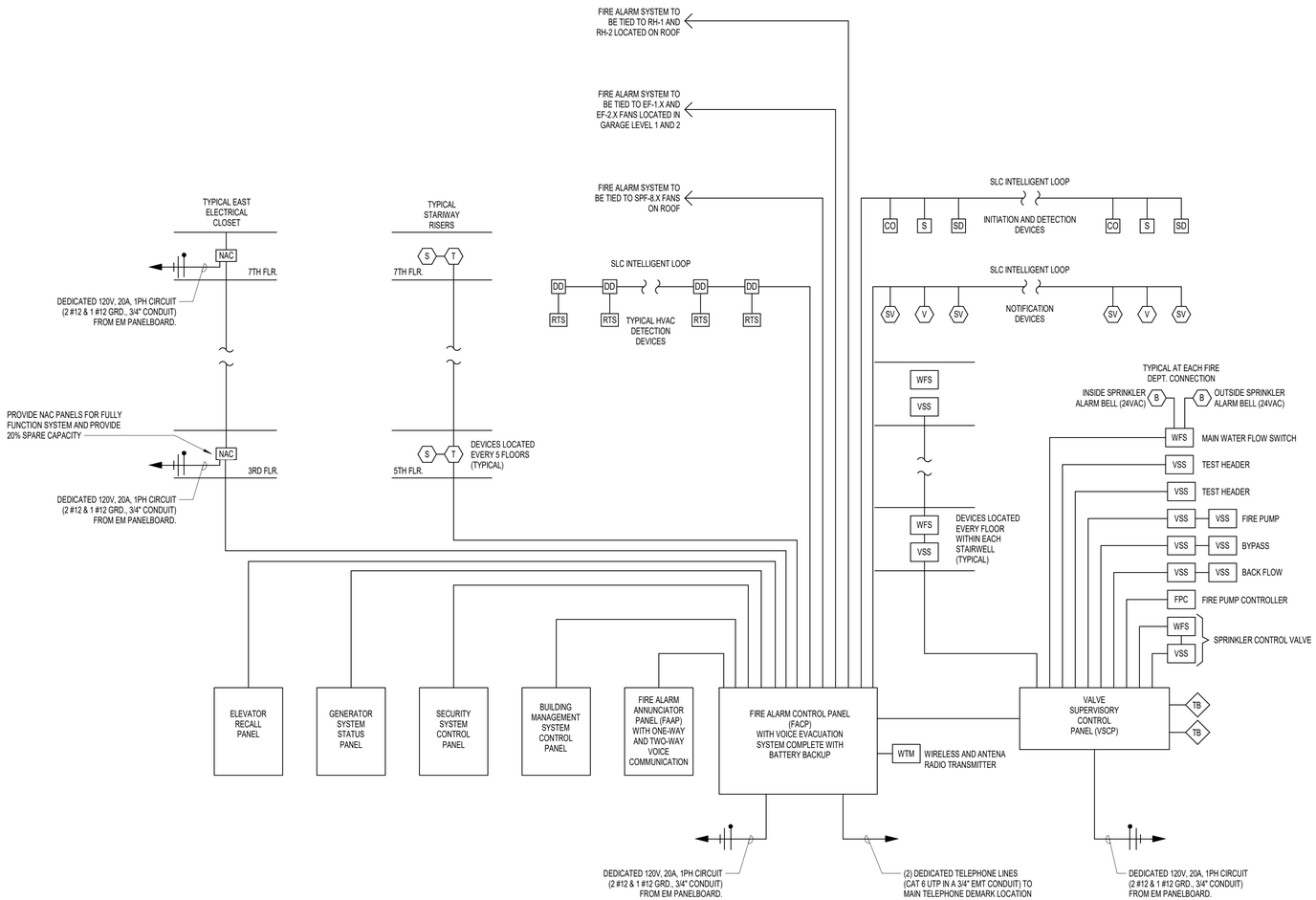

1 FIRE ALARM RISER DIAGRAM
NTS

FIRE ALARM SYSTEM GENERAL NOTES

1. ALL FIRE ALARM SYSTEMS (INITIATING, DETECTION, NOTIFICATION, RELAY MODULES, ETC.,) SHALL BE CLASS "A" WIRING.
2. ALL DEVICES AND EQUIPMENT SHOWN ON PLAN ARE FOR GENERAL LOCATION ONLY AND DO NOT DEPICT ACTUAL LOCATION. FINAL LOCATION AND PLACEMENT OF DEVICES AND EQUIPMENT SHALL BE FULLY COORDINATED WITH ARCHITECT AND ALL TRADES AND LOCAL FIRE MARSHALL. REFER TO ARCHITECTURAL DRAWINGS FOR AESTHETIC INTENT.
3. ALL SIGNALING LINE CIRCUITS (SLC's) SHALL BE CLASS "A" WIRING METHOD. THESE CIRCUITS SHALL BE 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
4. ALL NOTIFICATION DEVICE/APPLIANCE CIRCUITS (NAC's) SHALL BE CLASS "A" WIRING METHOD. CONNECT THESE DEVICES WITH 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
5. ALL INITIATING DEVICE CIRCUITS (IDC's) SHALL BE CLASS "A" WIRING METHOD. CONNECT THESE DEVICES WITH 2/C #16 AWG IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
6. FIRE ALARM SYSTEM INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NEC AND NFPA 72.
7. INSTALLATION MATERIALS (I.E. CONDUIT, WIRE, FITTINGS, HANGERS, AND STANDARD BOXES) SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
8. ALL HORN/STROBE AND STROBE DEVICES SHALL BE MOUNTED AT A HEIGHT OF 80" A.F.F. OR 6" BELOW DROPPED CEILING, WHICHEVER IS LESS IN ACCORDANCE WITH ADA (AMERICANS WITH DISABILITIES ACT). REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
9. FIRE ALARM CONTROL PANEL SHALL BE MOUNTED 6' TO THE TOP OF PANEL A.F.F. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
10. ALL FIRE ALARM SYSTEM CONDUITS SHALL BE FACTORY PAINTED RED AND SHALL BE NOT LESS THAN 3/4" EMT UNLESS OTHERWISE NOTED.
11. FIRE ALARM CONTROL PANEL SHALL BE CAPABLE OF MONITORING ALL DETECTION, INITIATION, NOTIFICATION AND CARBON MONOXIDE DEVICES.
12. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT.
13. MOUNT ALL HVAC DUCT MOUNTED SMOKE DETECTORS WITHIN THE MAIN HEADER DUCT INSIDE THE BUILDING. DUCT DETECTORS MOUNTED ON THE EXTERIOR SIDE OF THE BUILDING SHALL NOT BE ACCEPTABLE.
14. ALL SECURED DOORS AT STAIRWELLS EQUIPPED WITH ELECTRIC DOOR STRIKES SHALL UNLOCK UPON ACTIVATION OF FIRE ALARM SYSTEM WHERE APPLICABLE. PROVIDE SIGNAL WIRING IN CONDUIT AND ASSOCIATED HARDWARE, SOFTWARE, MODULES AND PROGRAMMING AS REQUIRED.
15. MAIN WATER FLOW SWITCH SHALL ACTIVATE ALARM BELLS.
16. PROVIDE FIRE ALARM MAPS COMPLETE WITH DEVICE ADDRESS TO EACH FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATOR PANEL LOCATION.
17. DUCT SMOKE DETECTORS SHALL BE PROVIDED:
    a. DOWNSTREAM OF AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2,000CFM.
    b. AT EACH STORY PRIOR TO THE CONNECTION TO A COMMON RETURN AND PRIOR TO ANY RECIRCULATION OF FRESH AIR INLET CONNECTION IN AIR RETURN SYSTEMS HAVING A CAPACITY GREATER THAN 15,000CFM AND SERVING MORE THAN ONE STORY.
18. ALL AUTOMATIC TRANSFER SWITCHES SHALL BE PROVIDED WITH REMOTE MONITORING AT FIRE ALARM CONTROL PANEL.
19. COORDINATE WITH FIRE PROTECTION DRAWINGS FOR COMPLETE QUANTITY AND LOCATIONS OF FLOW AND TAMPER SWITCHES.
20. PROVIDE 3/4" EMPTY CONDUITS FROM FIRE ALARM CONTROL PANEL TO RETAIL SPACES FOR FUTURE DEVICE CONNECTION. ENSURE FIRE ALARM CONTROL PANEL IS PROVIDED WITH SPARE CAPACITY FOR FUTURE RETAIL BUILD OUT.

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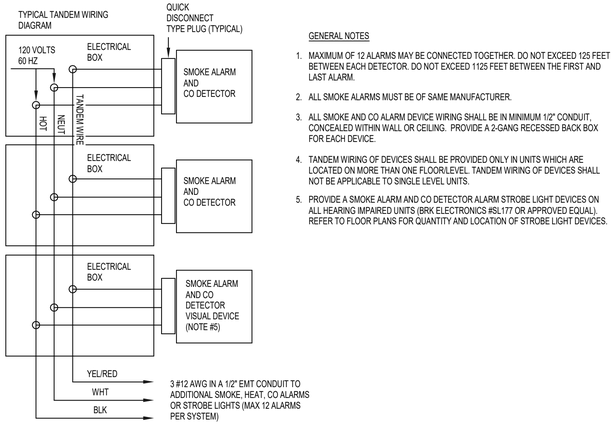
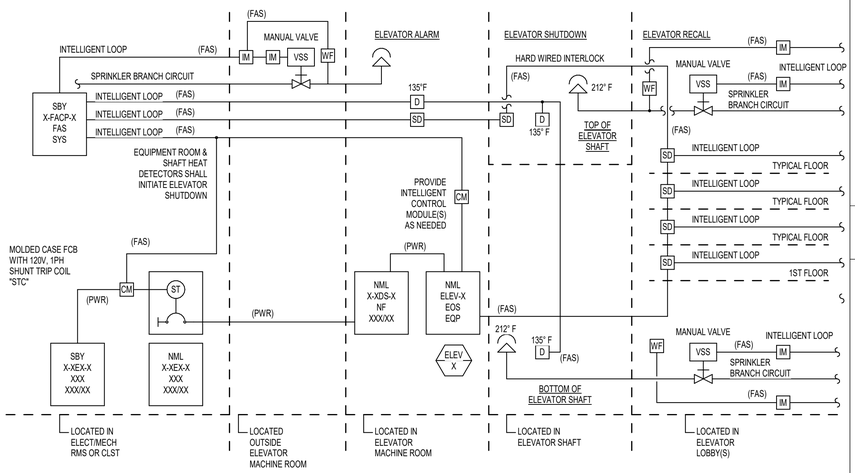


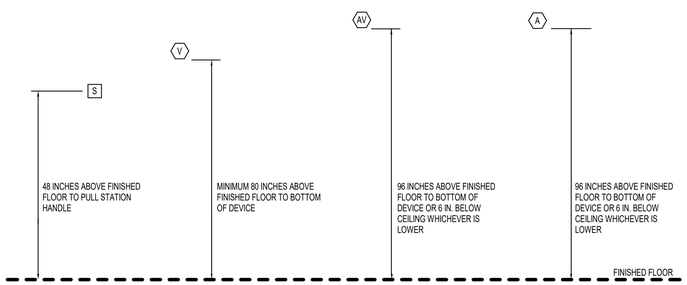
GENERAL NOTES

1. MAXIMUM OF 12 ALARMS MAY BE CONNECTED TOGETHER. DO NOT EXCEED 125 FEET BETWEEN EACH DETECTOR. DO NOT EXCEED 1125 FEET BETWEEN THE FIRST AND LAST ALARM.
2. ALL SMOKE ALARMS MUST BE OF SAME MANUFACTURER.
3. ALL SMOKE AND CO ALARM DEVICE WIRING SHALL BE IN MINIMUM 1/2" CONDUIT, CONCEALED WITHIN WALL OR CEILING. PROVIDE A 2-GANG RECESSED BACK BOX FOR EACH DEVICE.
4. TANDEM WIRING OF DEVICES SHALL BE PROVIDED ONLY IN UNITS WHICH ARE LOCATED ON MORE THAN ONE FLOOR/LEVEL. TANDEM WIRING OF DEVICES SHALL NOT BE APPLICABLE TO SINGLE LEVEL UNITS.
5. PROVIDE A SMOKE ALARM AND CO DETECTOR ALARM STROBE LIGHT DEVICES ON ALL HEARING IMPAIRED UNITS (BRK ELECTRONICS #SL177 OR APPROVED EQUAL). REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF STROBE LIGHT DEVICES.

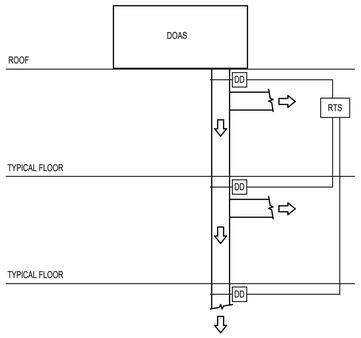
4 TANDEM WIRING OF SMOKE AND CO ALARM DEVICES - RESIDENTIAL UNITS
NTS



5 FIRE ALARM - ELEVATOR SHUT-DOWN RECALL OVERRIDE SYSTEM EOS1
NTS



6 FIRE ALARM DEVICES MOUNTING HEIGHTS
NTS



GENERAL NOTES:

1. LOCATE REMOTE KEYED TEST STATIONS IN SEVENTH FLOOR ELECTRICAL CLOSET AND PROVIDE DUCT SMOKE DETECTOR ADDRESS.
2. LOCATE DUCT SMOKE DETECTORS IN A READILY ACCESSIBLE LOCATION. PROVIDE A FIRE RATED ACCESS COVER IF DUCT SMOKE DETECTOR IS MOUNTED BEHIND OR WITHIN WALL/CEILING CAVITY.

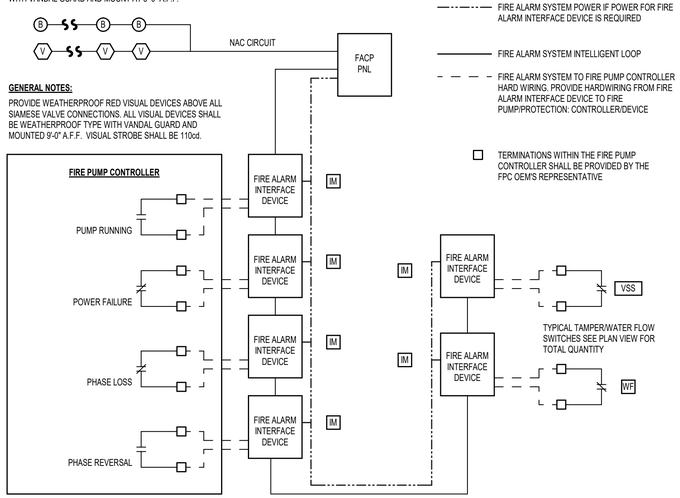
2 AIR HANDLING UNIT DUCT SMOKE DETECTOR SYSTEM SCHEMATIC DIAGRAM1
NTS

GENERAL NOTES:

INSTALL FURNISHED BELL ABOVE ALL SIAMESE VALVE CONNECTIONS. ALL BELLS SHALL BE FURNISHED BY THE FIRE PROTECTION CONTRACTOR. PROVIDE WEATHERPROOF TYPE WITH VANDAL GUARD AND MOUNT AT 8'-0" A.F.F.

GENERAL NOTES:

PROVIDE WEATHERPROOF RED VISUAL DEVICES ABOVE ALL SIAMESE VALVE CONNECTIONS. ALL VISUAL DEVICES SHALL BE WEATHERPROOF TYPE WITH VANDAL GUARD AND MOUNTED 9'-0" A.F.F. VISUAL STROBE SHALL BE 110cd.



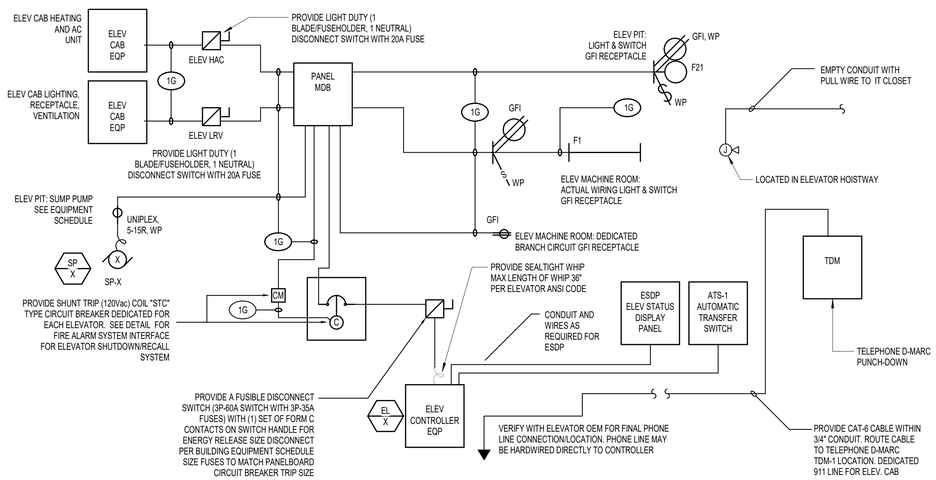
LEGEND

- FIRE ALARM SYSTEM POWER IF POWER FOR FIRE ALARM INTERFACE DEVICE IS REQUIRED
- FIRE ALARM SYSTEM INTELLIGENT LOOP
- FIRE ALARM SYSTEM TO FIRE PUMP CONTROLLER HARD WIRING. PROVIDE HARDWIRING FROM FIRE ALARM INTERFACE DEVICE TO FIRE PUMP/PROTECTION: CONTROLLER/DEVICE
- TERMINATIONS WITHIN THE FIRE PUMP CONTROLLER SHALL BE PROVIDED BY THE FPC OEM'S REPRESENTATIVE

GENERAL NOTES:

1. PROVIDE ALARM FOR FIRE PUMP RUN (FULL FIRE AND PHASE REVERSAL).
2. ALL WIRING SHALL BE IN 3/4" MINIMUM CONDUIT.

1 ELECTRICAL DRIVEN FIRE PUMP CONTROL1
NTS



3 ELEVATOR ANCILLARY POWER CONTROL WIRING DETAIL1
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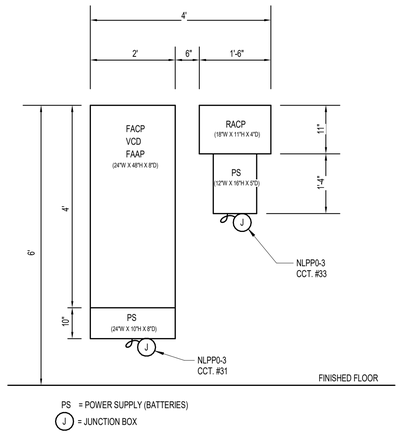
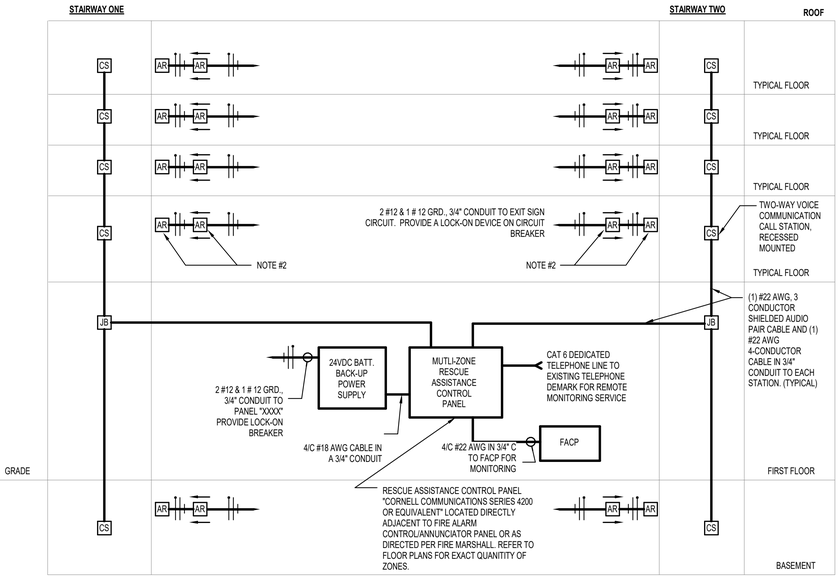


1 FIRE ALARM CONTROL PANEL AND RESCUE AREA CONTROL PANEL MOUNTING HEIGHTS1
NTS

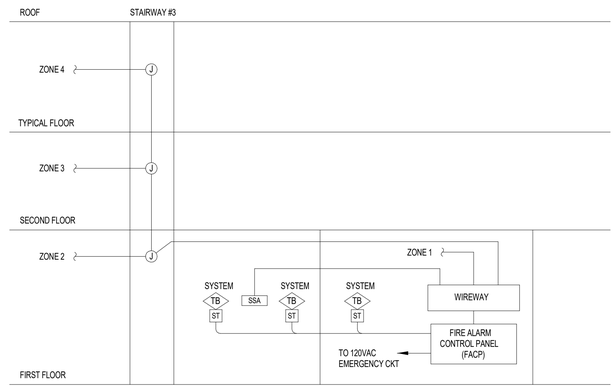


GENERAL NOTES:

1. PROVIDE RESCUE ASSISTANCE COMMUNICATIONS SYSTEM AS PER AMERICANS WITH DISABILITIES ACT.

2. PROVIDE AN ADA APPROVED LED ILLUMINATED "AREA OF RESCUE ASSISTANCE" SIGN AT EACH STAIRWAY ENTRANCE EQUIPPED WITH AN AREA OF RESCUE CONFIGURATION. ILLUMINATED SIGN SHALL BE EQUIPPED WITH A 90 MINUTE BATTERY AND TEST STATION (HDI INC. #ADA-IS-UL OR APPROVED EQUAL). PROVIDE A 120VAC CIRCUIT WITH 2 #12 & 1 #12 GRD., 3/4" CONDUIT TO EACH ILLUMINATED SIGN FROM 120V PANEL. PROVIDE A LOCK-ON DEVICE ON 15A-1P CIRCUIT BREAKER.

2 AREA OF RESCUE ASSISTANCE SYSTEM RISER DIAGRAM
NTS



GENERAL NOTES:

1. RISER DIAGRAM ABOVE IS DIAGRAMMATIC AND IS SHOWN TO PROVIDE A GENERAL OVERVIEW OF MAJOR SYSTEM COMPONENTS AND THEIR INTERCONNECTION. THIS DIAGRAM IS NOT TO BE USED FOR FIELD INSTALLATION PURPOSES.

2. ALL WIRING SHALL BE IN CONDUIT, 3/4" MINIMUM. ALL WIRING SHALL BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS.

3. SEE FIRE PROTECTION SYSTEM DRAWINGS FOR DEVICE LOCATIONS AND QUANTITIES.

4. PROVIDE ALL ANCILLARY COMPONENTS, HARDWARE, POWER CONNECTIONS AND WIRING AS REQUIRED FOR A COMPLETE AND OPERATING VALVE SUPERVISORY (TAMPER) SYSTEM.

3 SPRINKLER SUPERVISORY SYSTEM RISER DIAGRAM
NTS

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COMMUNICATIONS SYMBOLS - OUTLETS

	WALL OUTLET
	WALL FEEDPOINT
	FLOOR BOX OUTLET
	FLOOR FEEDPOINT
WAP	WIRELESS ACCESS POINT - CIELING MOUNTED
SME	STRUCTURED MEDIA ENCLOSURE

SECURITY SYMBOLS

	CEILING MOUNTED - INTERIOR IP CAMERA
	WALL MOUNTED - EXTERIOR IP CAMERA
	CORNER MOUNTED - EXTERIOR IP CAMERA
OR	CARD READER
OR	INTERCOM
KP	KEYPAD
PP	PUSH PLATE
DC	MAGNETIC CONTACT
MD	MOTION DETECTOR
DR	DOOR RELEASE
LA	LOCAL ALARM
GB	GLASS BREAK
DB	DURESS BUTTON
TS	TEMPERATURE SENSOR
IM	INTERCOM MASTER STATION
ACP	ACCESS CONTROL PANEL

SYMBOL DESIGNATION

SYMBOL	CAT6	CAT6A	AV / SEC CABLING REQUIREMENTS	NOTES	ELECTRICAL CONTRACTOR RESPONSIBILTY	CONTRACTOR / INTEGRATOR COORDINATION NOTES
A	1			STANDARD NETWORK CONNECTION	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
B	2			STANDARD NETWORK CONNECTION	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
C	3			STANDARD NETWORK CONNECTION	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
D	4			STANDARD NETWORK CONNECTION	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
F	6			STANDARD NETWORK CONNECTION	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
W	1			WALL PHONE	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
WAP		1		802.11ax WIRELESS ACCESS POINT	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
ELV	2			ELEVATOR CONTROL PANEL	PROVIDE AND INSTALL CONDUIT AND SPECIALTY BACKBOXES	
FACP	2			FIRE ALARM CONTROL PANEL	PROVIDE AND INSTALL CONDUIT AND SPECIALTY BACKBOXES	
RCK					PROVIDE AND INSTALL CONDUIT/ BACKBOXES AND POWER	
REFER TO THE SECURITY DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION						
CAM		1		IP SECURITY CAMERA	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
ACP	2			ACCESS CONTROL PANEL / SECURITY FIELD PANEL	PROVIDE AND INSTALL CONDUIT, BACKBOXES / SPECIALTY BOXES AND POWER	
IM	1			IP INTERCOM MASTER STATION	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
IC1	1			IP VIDEO INTERCOM STATION	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
REFER TO THE AV DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION						
TP	1			AV TOUCH SCREENCONTROL PANEL (QSC)	PROVIDE AND INSTALL CONDUIT AND BACKBOXES	
FPD(#)		2		FLAT PANEL DISPLAY (REFER TO SCHEDULES & DETAILS FOR EACH FPD)	PROVIDE AND INSTALL CONDUIT, BACKBOXES / SPECIALTY BOXES AND POWER	
PRJ		2		PROJECTOR	PROVIDE AND INSTALL CONDUIT, BACKBOXES / SPECIALTY BOXES AND POWER	
RCK1					PROVIDE AND INSTALL CONDUIT, BACKBOXES / SPECIALTY BOXES AND POWER	
RCK2					PROVIDE AND INSTALL CONDUIT, BACKBOXES / SPECIALTY BOXES AND POWER	
S			16/2	AV CEILING MOUNT SPEAKERS	PROVIDE AND INSTALL CONDUIT, BACKBOXES / SPECIALTY BOXES AND POWER	

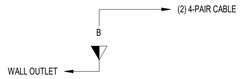
NOTES:

1. SCS / TECHNOLOGY CONTRACTOR SHALL PROVIDE AND INSTALL ALL SECURITY AND AV RACKS / CABINETS UNDER THE SCS SCOPE.
2. ELECTRICAL CONTRACTOR SHALL CONFIRM AND COORDINATE ALL AV POWER, CONDUIT AND BACKBOX REQUIREMENTS PRIOR TO INSTALLATION

CONDUIT FILL CHART (NUMBER OF CABLES AT 40%)

CONDUIT TRADE SIZE (in.)		CAT6A UTP (O.D. - 0.295)	CAT6 UTP (O.D. - 0.212)	
0.75		2	5	
1		4	9	
1.25		7	14	
1.5		10	20	
2		18	35	

EXAMPLE:



CONTRACTOR COORDINATION RESPONSIBILITY MATRIX

CONDUIT PATHWAYS AND ENCLOSURES

1. GENERAL REQUIREMENTS:
   A. REQUIREMENTS FOR CONDUITS AND BACK BOXES IN SPECIFICATION 27 05 33 COMMUNICATION CONDUITS AND BOXES SHALL BE FOLLOWED.

PULL BOX SIZING GUIDE

CONDUIT TRADE SIZE (IN.)	PULL BOX WIDTH (IN.)	PULL BOX LENGTH (IN.)	PULL BOX DEPTH (IN.)	PULL BOX WIDTH INCREASE FOR ADDITIONAL CONDUIT (IN.)
1	4	16	3	2
1 1/4	6	20	3	3
1 1/2	8	27	4	4
2	8	36	4	5
2 1/2	10	42	5	6
3	12	48	5	6
3 1/2	12	54	6	6
4	15	60	8	8

ABBREVIATIONS

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BAS	BUILDING AUTOMATED SYSTEMS
BMS	BUILDING MANAGEMENT SYSTEMS
BDF	BUILDING DISTRIBUTION FACILITY
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CP	CONSOLIDATION POINT
CER	COMMUNICATIONS EQUIPMENT ROOM
DIM	DIMENSION
DWG	DRAWING
EC	EMPTY CONDUIT
EF	ENTRANCE FACILITY
(E)	EXIST/EXISTING
ER	EQUIPMENT ROOM
F/UTP	FOIL SCREENED TWISTED PAIR
FOE	FIBER OPTIC ENTRANCE
GND	GROUND
HT	HEIGHT/HIGH
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
LOMMF	LASER OPTIMIZED MULTIMODE FIBER
MDF	MAIN DISTRIBUTION FACILITY
MH	MANHOLE
MMF	MULTIMODE FIBER
MPOE	MINIMUM POINT OF ENTRY
MER	MAIN EQUIPMENT ROOM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSP	OUTSIDE PLANT CABLE
PB	PULLBOX
PR	PAIR
REQ	REQUIREMENT
RM	ROOM
SMF	SINGLE-MODE FIBER
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TSID	TELECOMMUNICATIONS SPACE IDENTIFICATION
TR	TELECOMMUNICATIONS ROOM
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
UPS	UNINTERRUPTIBLE POWER SUPPLY
(U/)UTP	UNSHIELDED TWISTED PAIR
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
ZDF	ZONE DISTRIBUTION FACILITY

SYMBOLS

X / Y	DETAIL REFERENCE: - (X) DENOTES DETAIL NUMBER - (Y) DENOTES DRAWING NUMBER
X / Y	SECTION REFERENCE: - (X) DENOTES DETAIL NUMBER - (Y) DENOTES DRAWING NUMBER
#	KEYNOTE REFERENCE: - (#) DENOTES IDENTIFIER
	CABLE TRAY
	CABLE RUNWAY
PB	PULL BOX
HH	HAND HOLE

GENERAL TECHNOLOGY NOTES

APPLICABLE TO ALL TECHNOLOGY DRAWINGS

1. ALL CABLES SHALL BE RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
2. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO VERIFY THE APPLICABLE CODE VERSION WITH THE AUTHORITY HAVING JURISDICTION (AHJ) FOR ALL WORK PERFORMED.
3. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE TELECOM DRAWINGS. OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK.
4. A COPY OF THE SPECIFICATIONS AND DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE AND SHALL BE PRESENTED UPON REQUEST. MAINTAIN DAILY MARKUPS OF ACTUAL INSTALLATION AND PRESENT FOR REVIEW DURING ALL SITE VISITS BY ENGINEER.
5. CABLE BUNDLING IS TO BE AVOIDED, ALL CABLES SHALL BE ALLOWED TO LAY NATURALLY IN CABLE TRAYS AND RUNWAYS. WHEN BUNDLING IS NECESSARY NO BUNDLE SHALL BE LARGER THAN 24 CABLES.
6. EXACT MOUNTING LOCATIONS AND HEIGHTS ARE FIELD COORDINATION ISSUES. CONTRACTOR TO COORDINATE WITH EXISTING CONDITIONS ON SITE TO PROVIDE THE MOST AESTHETIC APPEARANCE AND ALIGNMENT WITH NEARBY DEVICES.
7. TECHNOLOGY ROOM DIMENSIONS ON THE DRAWINGS HAVE BEEN TAKEN FROM ARCHITECTURAL DRAWINGS. THE SCALE OF THESE DRAWINGS ARE SUFFICIENTLY ACCURATE FOR DETERMINING THE LOCATION OF TECHNOLOGY INFRASTRUCTURE COMPONENTS, JUNCTION BOXES, OUTLET BOXES, RACEWAYS, RUNWAYS, PANELS, ETC. WHERE EXACT DIMENSIONS ARE INDICATED, THE REFERENCE SURFACE SHALL BE THE FINAL FINISHED SURFACE INCLUDING ANY ACOUSTICAL TREATMENT.
8. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD AND ANY DEVIATIONS CAUSING CHANGES EXCEEDING 6 INCHES TO THE INTENDED LOCATION OF MAJOR TECHNOLOGY INFRASTRUCTURE COMPONENTS SHALL BE COORDINATED WITH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
9. IT SHALL BE THE RESPONSIBILITY OF THE TECHNOLOGY CONTRACTOR TO COORDINATE AND VERIFY SIGNAL/CONDUIT PATHWAYS WITH THE ELECTRICAL DRAWINGS.
10. REFER TO DIVISION 26 AND 27 SPECIFICATIONS FOR INSTALLATION REQUIREMENTS RELATED TO FLOORBOXES, JUNCTION BOXES, BONDING CONDUCTORS, BUSBARS, CONDUITS, CONDUIT BENDS, RUNWAYS IN CORRIDORS, METALLIC ENCLOSURES.
11. BOND ALL CONDUITS, CABLE TRAYS, AND JUNCTION BOXES IN TELECOMMUNICATION SPACES PER TIA-607 IN ADDITION TO ANY APPLICABLE CODE REQUIREMENTS.
12. PRIOR TO DRILLING OR CORING ANY CONCRETE, NEW OR EXISTING, REBAR AND PT TENDON SHALL BE LOCATED BY SCANNING. SHOP DRAWINGS SHOWING THE COORDINATED LOCATIONS OF OPENINGS AND ANCHORS TO AVOID DAMAGING REBAR AND PT TENDONS SHALL BE SUBMITTED. CORING OF POST-TENSION CONCRETE IS NOT PERMITTED WITHOUT THE REVIEW OF THE ARCHITECTS.
13. ALL TECHNOLOGY RELATED FLOORBOXES, POKE THRU DEVICES, JUNCTION BOXES AND BACK BOXES SHOULD BE PROVIDED WITH AN EMPTY CONDUIT TO THE APPLICABLE TELECOM ROOM, CABLE TRAY, RUNWAY, PULL BOX, OR OPEN ACCESS CEILING AREA.
14. CONDUIT ROUTES ON THE TELECOM DRAWINGS SHOW ONLY INTERCONNECTION BETWEEN THE TERMINATION POINTS AND APPROXIMATE ROUTES. THE EXACT ROUTE OF CONDUIT PATHWAYS SHALL BE COORDINATED AND VERIFIED BY CONTRACTOR BASED ON FIELD CONDITIONS.
15. CABLE PATHWAYS ON THE TELECOM DRAWINGS SHOW ONLY APPROXIMATE ROUTES. THE EXACT ROUTE OF PATHWAYS ARE TO BE COORDINATED AND VERIFIED BY CONTRACTOR BASED ON FIELD CONDITIONS.
16. THE METHOD OF INSTALLATION FOR ALL TECHNOLOGY RELATED BACKBOXES IN WALLS AND THE METHOD FOR PASSAGE OF CONDUIT AND RUNWAYS THROUGH ACOUSTICALLY SENSITIVE WALLS SHALL BE COORDINATED WITH THE ACOUSTICAL CONSULTANT OR OWNER PRIOR TO INSTALLATION.
17. ALL TECHNOLOGY DEVICES SHALL BE SECURELY MOUNTED PLUMB AND STRAIGHT TO WALLS, FLOORS, OR RACKS, PER THE MANUFACTURER'S RECOMMENDED MOUNTING PRACTICE.
18. CABLES INSTALLED IN ANY UNDERGROUND CONDUITS, INCLUDING UNDER OR WITHIN A SLAB ON GRADE, SHALL BE INDOOR/OUTDOOR RATED.
19. INSTALL FIRESTOP ASSEMBLIES IN ALL THROUGH-SLAB OR THROUGH-WALL RATED BARRIER PENETRATIONS FOR THE INSTALLATION OF TECHNOLOGY CABLING AS REQUIRED TO MAINTAIN FIRE RATING OF PENETRATED SLAB OR WALL. REVIEW DRAWINGS FOR PARTITION TYPE RATINGS. FIRESTOPPING SYSTEMS USED FOR ALL PENETRATIONS SHALL BE A UL LISTED ASSEMBLY AND APPROVED BY APPLICABLE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
20. SLEEVE ASSEMBLIES THAT PENETRATE RATED BARRIERS SHALL BE EZ-PATH OR EQUAL ASSEMBLIES TO ALLOW FOR SIMPLE MAINTENANCE FREE RE-ENTRY WITHOUT DISTURBING SEALANT AND SHALL A PROVIDE SMOKE BARRIER IN ADDITION TO FIRE RATING.
21. ELECTRICAL FEEDS ARE NOT TO BE RUN PARALLEL WITH VIDEO, AUDIO, OR TECHNOLOGY CABLING OR RACEWAYS. IF ELECTRICAL FEEDS MUST BE RUN PARALLEL, A MINIMUM OF 6 INCHES OF SEPARATION SHALL BE MAINTAINED.
22. POWER RECEPTACLES SHOWN ON TECHNOLOGY DRAWINGS ARE DEDICATED TO SPECIFIC TECHNOLOGY EQUIPMENT AND ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR ENGINEERED ELECTRICAL SYSTEM AND ADDITIONAL UTILITY POWER RECEPTACLES.
23. THE FINISHES FOR ALL TELECOM COMPONENTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.
24. TERMINATION OF OUTLETS IN ELEVATOR CONTROL AND ELEVATOR MACHINE ROOMS SHALL BE COORDINATED WITH ELEVATOR CONTRACTOR. ADDITIONAL SLACK MAY BE REQUIRED IN THESE LOCATIONS.
25. DIRECT CONNECT FIELD ASSEMBLY OF EQUIPMENT TO NETWORK CABLING IS PERMITTED.

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TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

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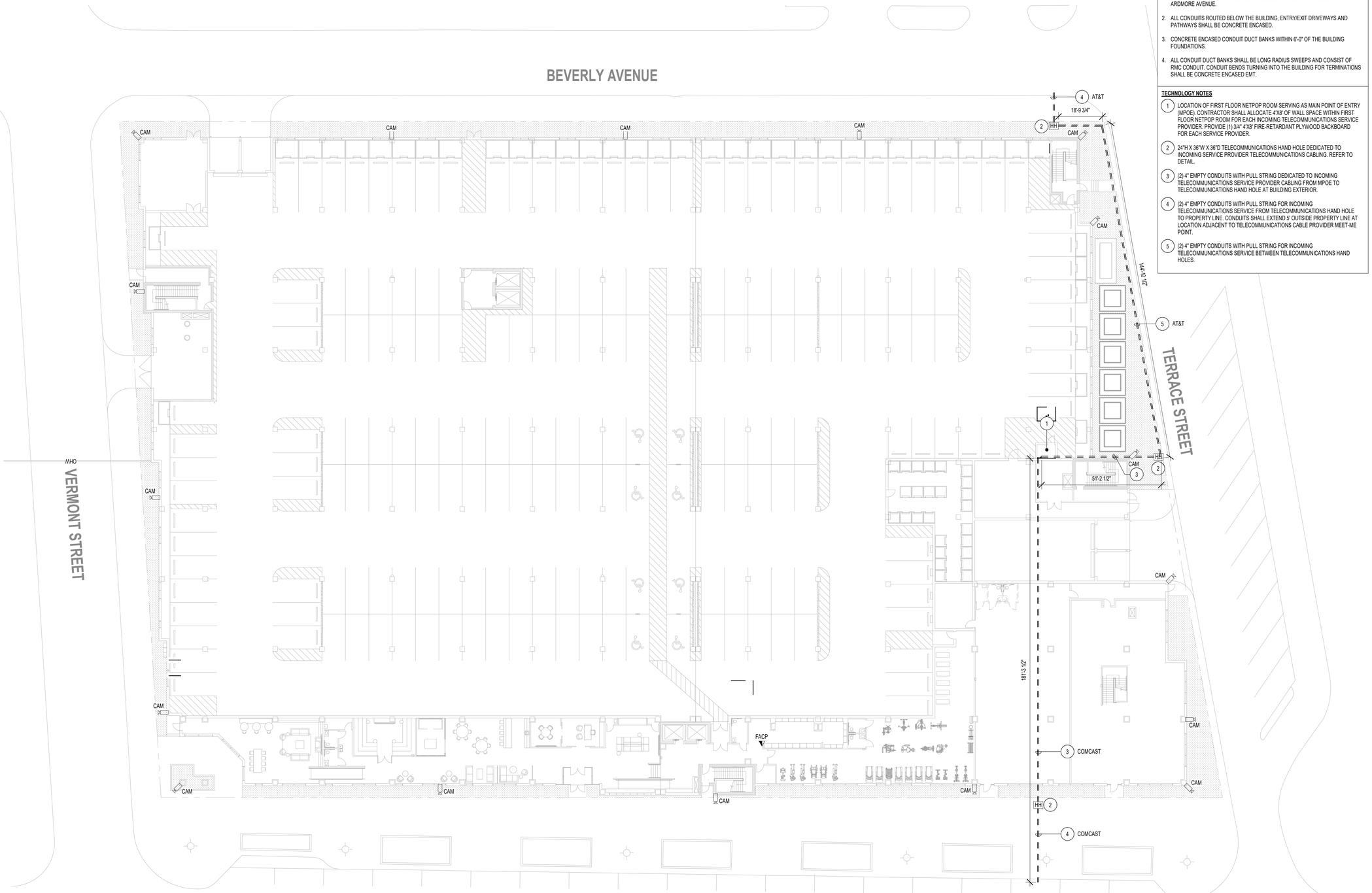

1 TECHNOLOGY SITE PLAN
1" = 20'-0"

TECHNOLOGY GENERAL NOTES:

1. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF EXISTING TELECOMMUNICATIONS UTILITY SERVICE LINES AT TERRACE STREET AND ARDMORE AVENUE.
2. ALL CONDUITS ROUTED BELOW THE BUILDING, ENTRY/EXIT DRIVEWAYS AND PATHWAYS SHALL BE CONCRETE ENCASED.
3. CONCRETE ENCASED CONDUIT DUCT BANKS WITHIN 6'-0" OF THE BUILDING FOUNDATIONS.
4. ALL CONDUIT DUCT BANKS SHALL BE LONG RADIUS SWEEPS AND CONSIST OF RMC CONDUIT. CONDUIT BENDS TURNING INTO THE BUILDING FOR TERMINATIONS SHALL BE CONCRETE ENCASED EMT.

TECHNOLOGY NOTES

1. LOCATION OF FIRST FLOOR NETPOP ROOM SERVING AS MAIN POINT OF ENTRY (MPOE). CONTRACTOR SHALL ALLOCATE 4'X8' OF WALL SPACE WITHIN FIRST FLOOR NETPOP ROOM FOR EACH INCOMING TELECOMMUNICATIONS SERVICE PROVIDER. PROVIDE (1) 3/4" 4'X8' FIRE-RETARDANT PLYWOOD BACKBOARD FOR EACH SERVICE PROVIDER.
2. 24"H X 36"W X 36"D TELECOMMUNICATIONS HAND HOLE DEDICATED TO INCOMING SERVICE PROVIDER TELECOMMUNICATIONS CABLING. REFER TO DETAIL.
3. (2) 4" EMPTY CONDUITS WITH PULL STRING DEDICATED TO INCOMING TELECOMMUNICATIONS SERVICE PROVIDER CABLING FROM MPOE TO TELECOMMUNICATIONS HAND HOLE AT BUILDING EXTERIOR.
4. (2) 4" EMPTY CONDUITS WITH PULL STRING FOR INCOMING TELECOMMUNICATIONS SERVICE FROM TELECOMMUNICATIONS HAND HOLE TO PROPERTY LINE. CONDUITS SHALL EXTEND 5' OUTSIDE PROPERTY LINE AT LOCATION ADJACENT TO TELECOMMUNICATIONS CABLE PROVIDER MEET-ME POINT.
5. (2) 4" EMPTY CONDUITS WITH PULL STRING FOR INCOMING TELECOMMUNICATIONS SERVICE BETWEEN TELECOMMUNICATIONS HAND HOLES.

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GENERAL NOTES

1. LOCATION OF SECOND FLOOR MDF ROOM ABOVE.
2. LOCATION OF SECOND FLOOR NORTHEAST IDF ROOM ABOVE.
3. LOCATION OF SECOND FLOOR NORTHWEST IDF ROOM ABOVE.
4. LOCATION OF SECOND FLOOR SOUTHEAST IDF ROOM ABOVE.
5. ROUTE AND TERMINATE ALL UTP AND SECURITY CABLING WITHIN THE BOUNDARY AREA TO SECOND FLOOR MDF ROOM
6. ROUTE AND TERMINATE ALL UTP AND SECURITY CABLING WITHIN THE BOUNDARY AREA TO SECOND FLOOR NORTHEAST IDF ROOM
7. ROUTE AND TERMINATE ALL UTP AND SECURITY CABLING WITHIN THE BOUNDARY AREA TO SECOND FLOOR NORTHWEST IDF ROOM
8. ROUTE AND TERMINATE ALL UTP AND SECURITY CABLING WITHIN THE BOUNDARY AREA TO SECOND FLOOR SOUTHEAST IDF ROOM

1 **FIRST FLOOR - TECHNOLOGY**
1/16" = 1'-0"

0' 4' 8' 16' 32'

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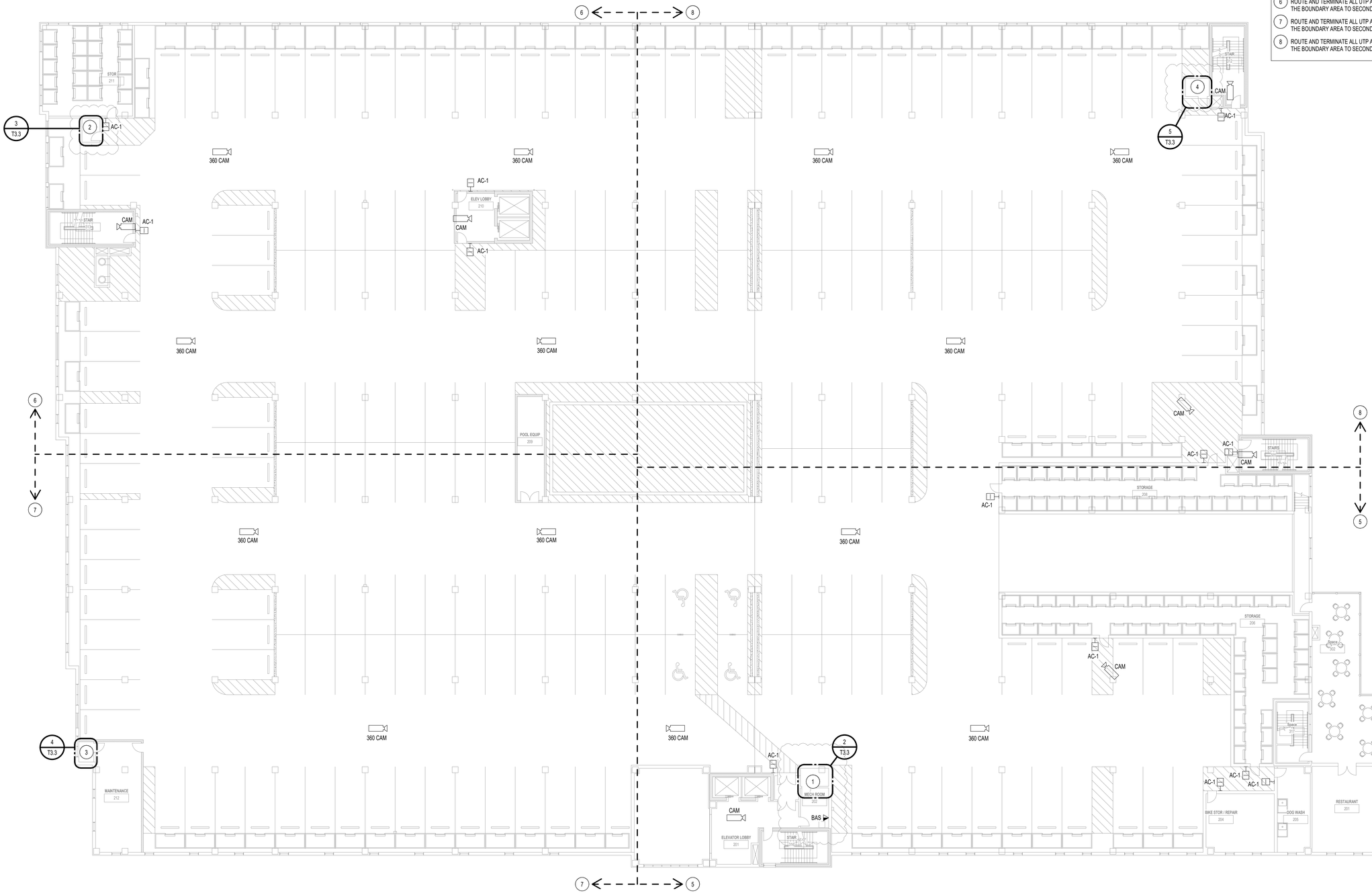

GENERAL NOTES

1. LOCATION OF SECOND FLOOR MDF ROOM
2. LOCATION OF SECOND FLOOR NORTHEAST IDF ROOM
3. LOCATION OF SECOND FLOOR NORTHWEST IDF ROOM
4. LOCATION OF SECOND FLOOR SOUTHEAST IDF ROOM
5. ROUTE AND TERMINATE ALL UTP AND SECURITY CABLING WITHIN THE BOUNDARY AREA TO SECOND FLOOR MDF ROOM
6. ROUTE AND TERMINATE ALL UTP AND SECURITY CABLING WITHIN THE BOUNDARY AREA TO SECOND FLOOR NORTHEAST IDF ROOM
7. ROUTE AND TERMINATE ALL UTP AND SECURITY CABLING WITHIN THE BOUNDARY AREA TO SECOND FLOOR NORTHWEST IDF ROOM
8. ROUTE AND TERMINATE ALL UTP AND SECURITY CABLING WITHIN THE BOUNDARY AREA TO SECOND FLOOR SOUTHEAST IDF ROOM

1 **SECOND FLOOR - TECHNOLOGY**
1/16" = 1'-0"

0' 4' 8' 16' 32'

N

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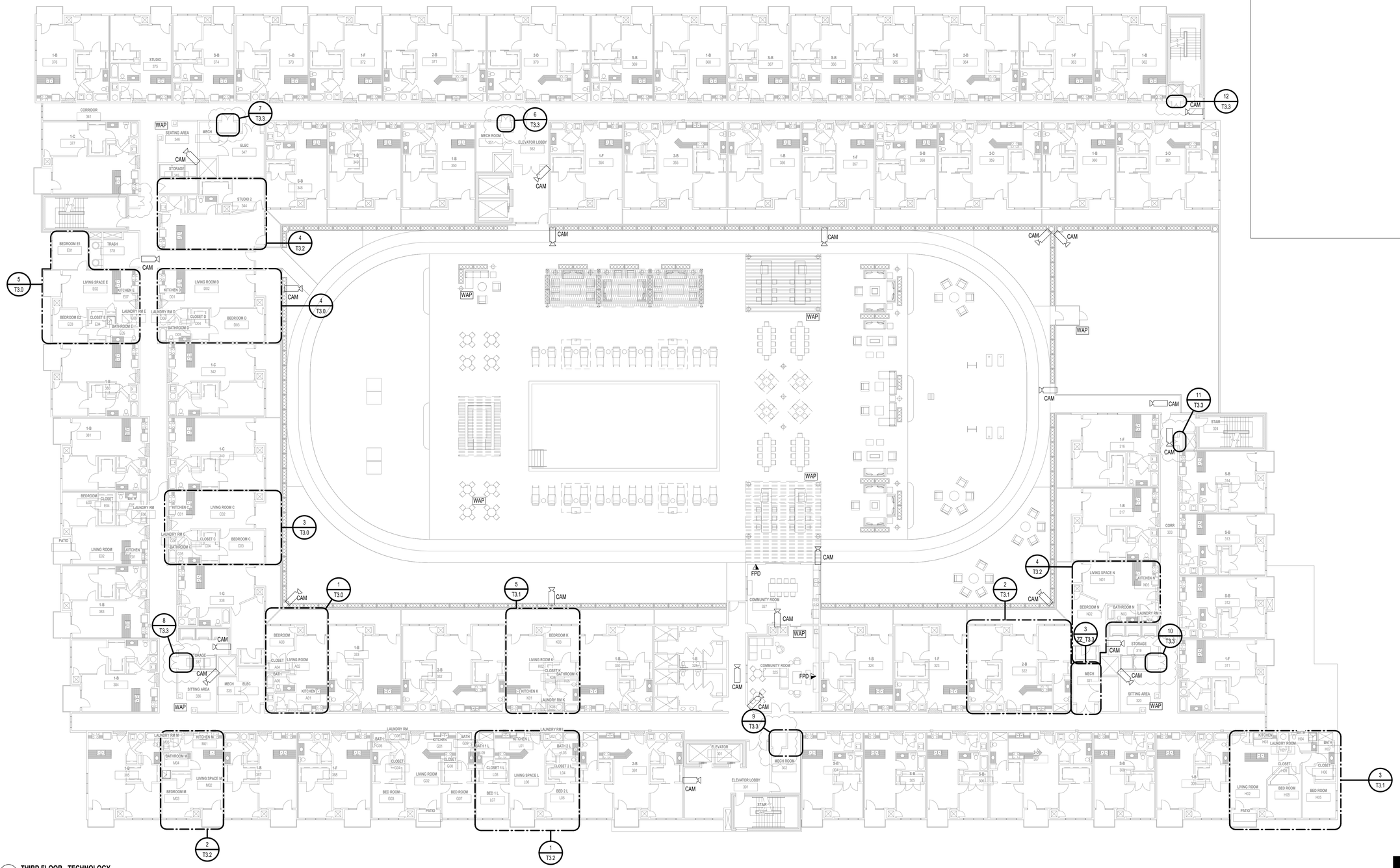

1 THIRD FLOOR - TECHNOLOGY
1/16" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

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1 **TYPICAL FLOOR - TECHNOLOGY**
1/16" = 1'-0"

0' 4' 8' 16' 32'

N

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DATE
15 APR 2021

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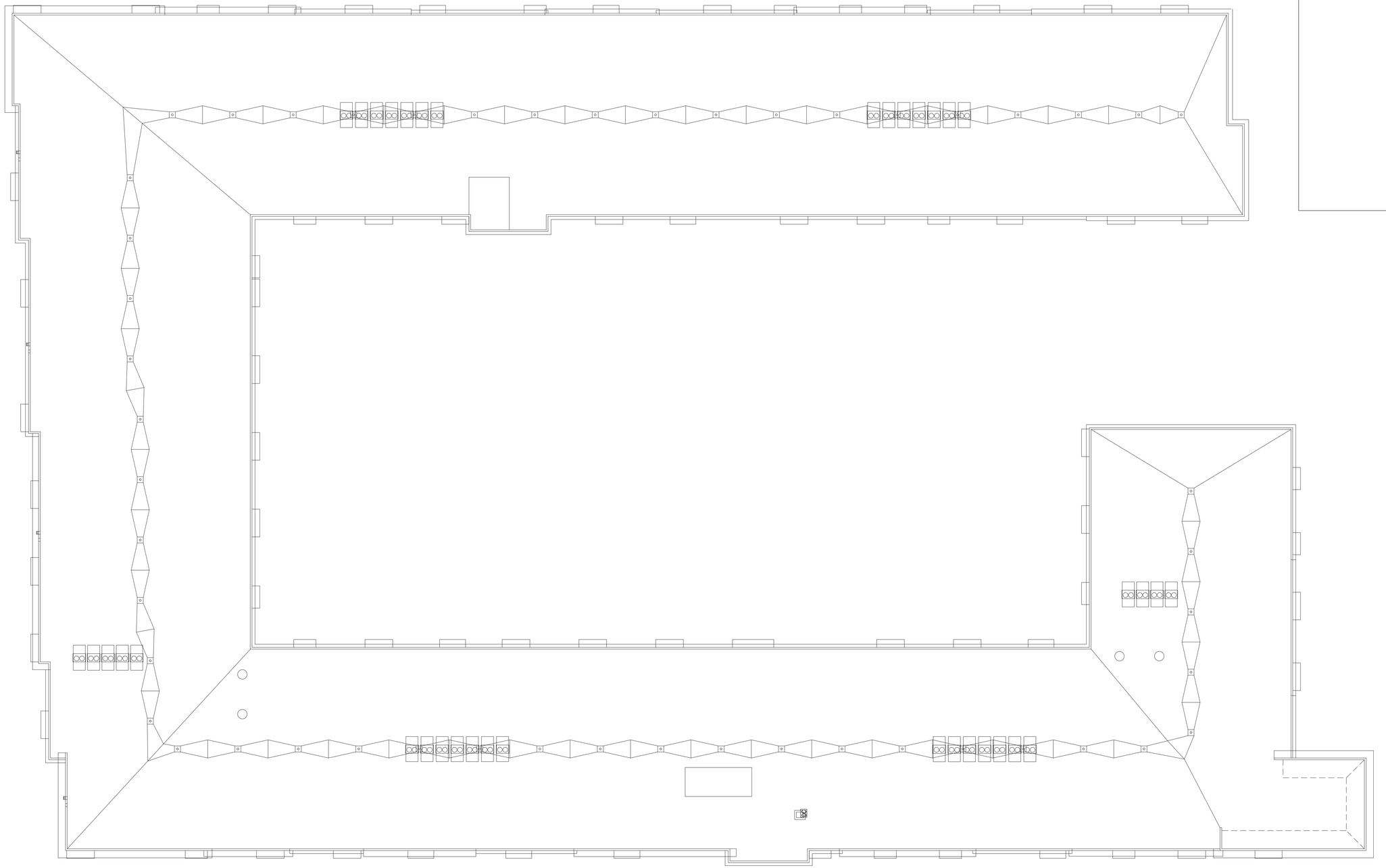

1 **ROOF - TECHNOLOGY**
1/16" = 1'-0"

0' 4' 8' 16' 32'

N

GENERAL NOTES

ROUTE ALL SECURITY CABLING ON ROOF TO IDF ROOM ON

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dbHMS
design build engineering
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phone: 312.915.0557 web: www.dbhms.com

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

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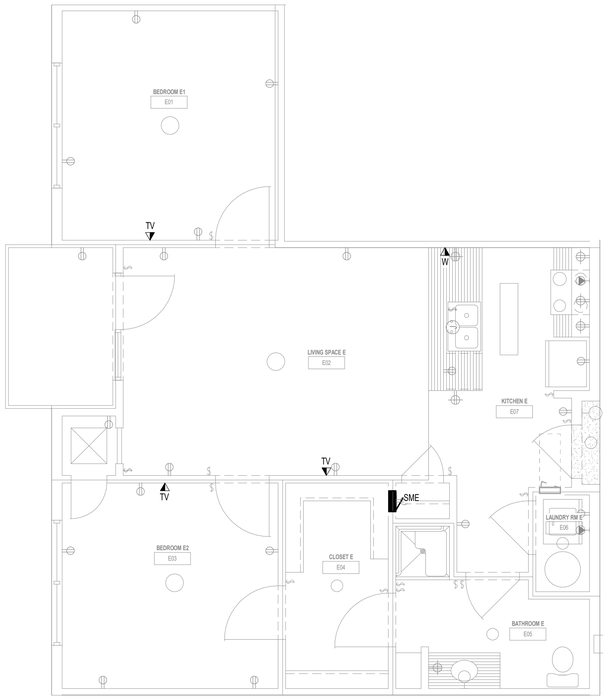
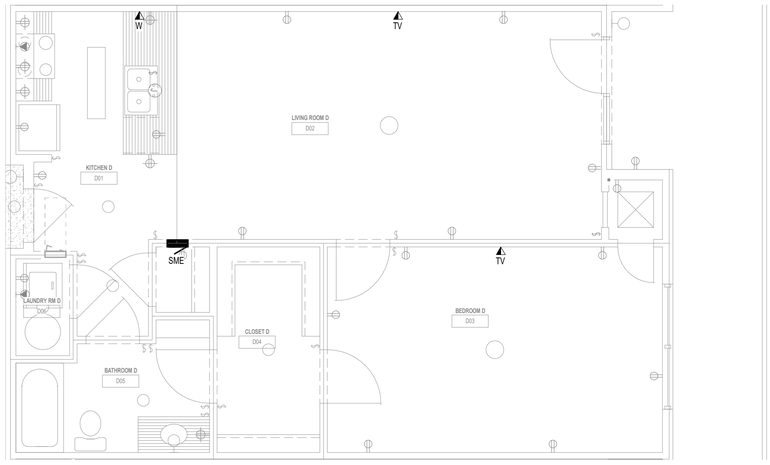
SHEET NOTES

1. ROUTE AND TERMINATE ALL RESIDENTIAL LOW VOLTAGE CABLING BACK TO STRUCTURED MEDIA ENCLOSURE WITHIN EACH RESIDENTIAL UNIT. ROUTE BACKBONE CABLING FROM STRUCTURED MEDIA ENCLOSURE TO RESPECTIVE IDF CLOSET SERVING FLOOR FOR TERMINATION AND UTILITY CONNECTIONS.
2. REFER TO FLOOR PLAN DRAWINGS FOR IDF LOCATIONS.
3. REFER TO DETAIL FOR CONDUIT ROUTING IN RESIDENTIAL UNITS.



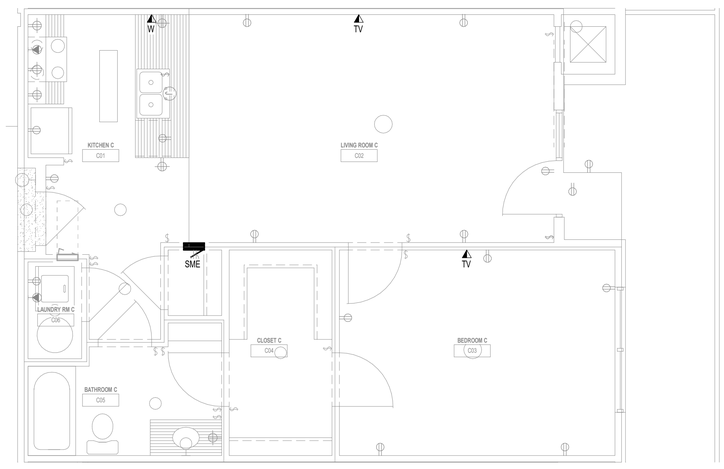
5 **ONE BEDROOM UNIT - TYPE E - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



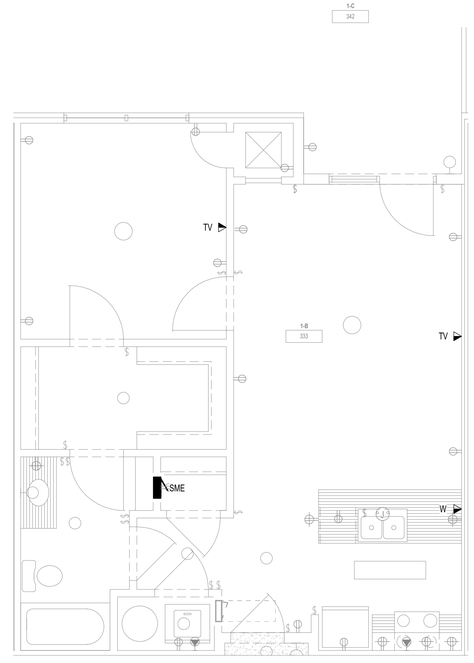
4 **ONE BEDROOM UNIT - TYPE D - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



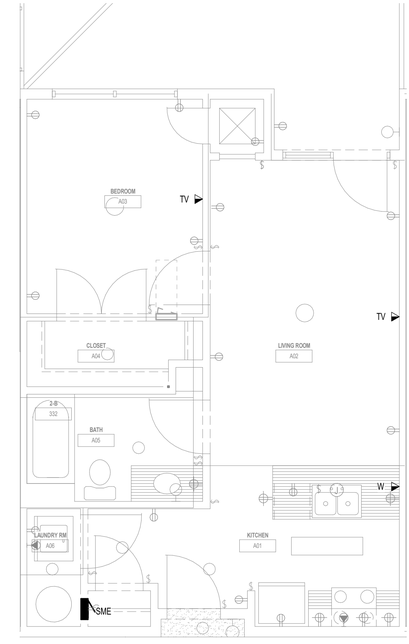
3 **ONE BEDROOM UNIT - TYPE C - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **ONE BEDROOM UNIT - TYPE B - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **ONE BEDROOM UNIT - TYPE A - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'

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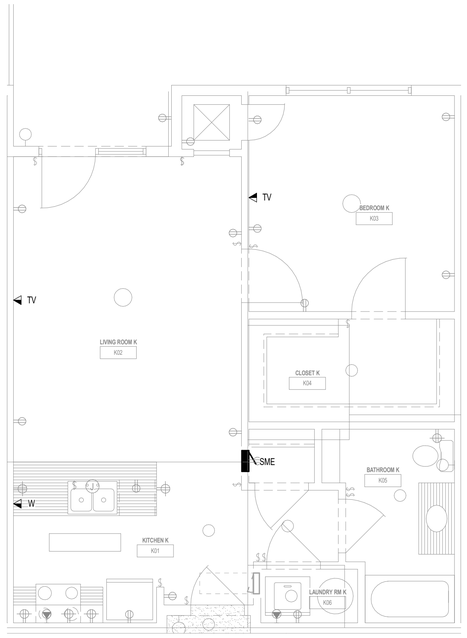
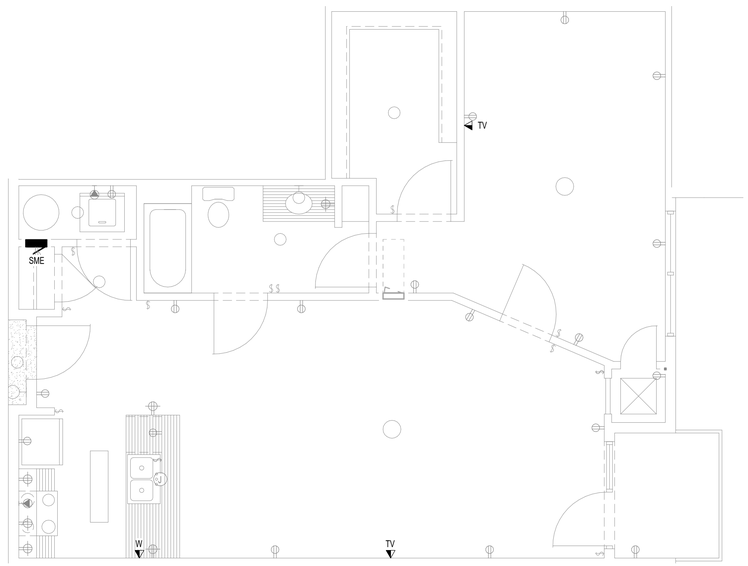


5 **ONE BEDROOM UNIT - TYPE K - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



4 **ONE BEDROOM UNIT - TYPE J - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'

SHEET NOTES

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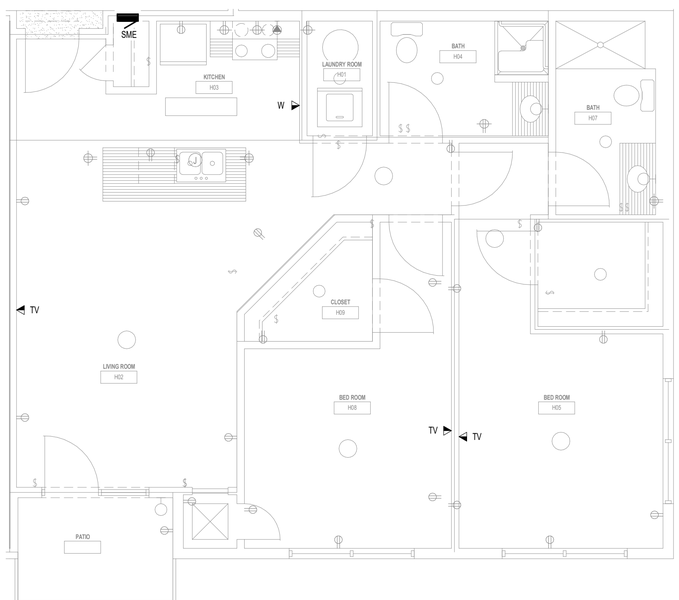
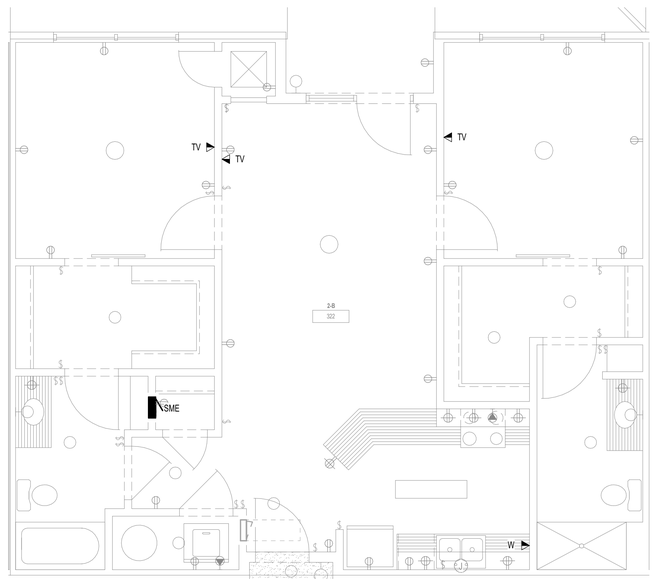
3. REFER TO DETAIL FOR CONDUIT ROUTING IN RESIDENTIAL UNITS.



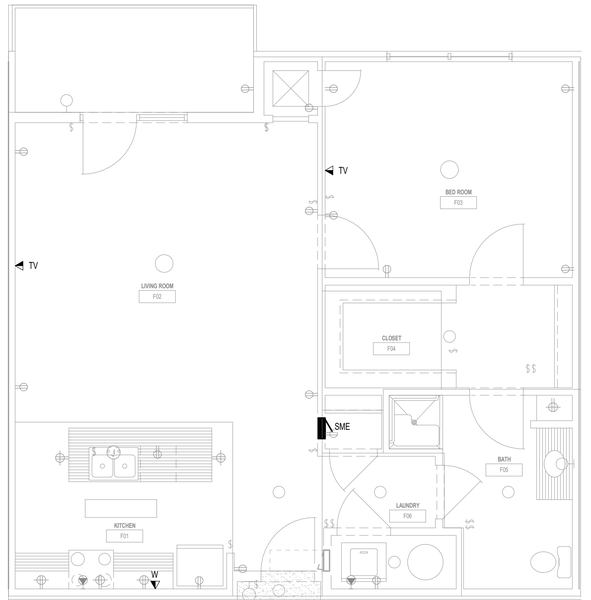
3 **TWO BEDROOM UNIT - TYPE H - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **TWO BEDROOM UNIT - TYPE G - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **ONE BEDROOM UNIT - TYPE F - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'

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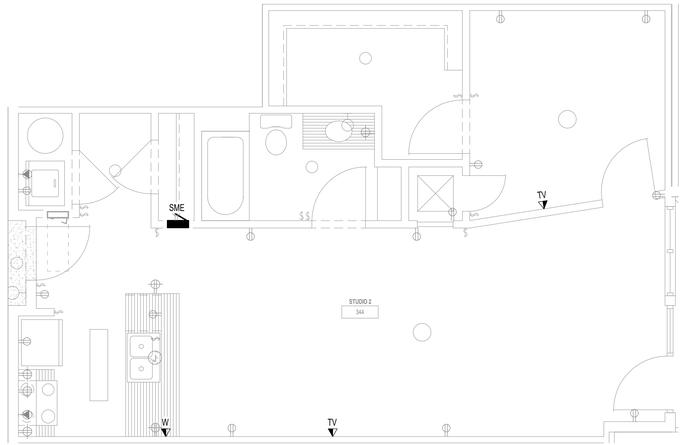
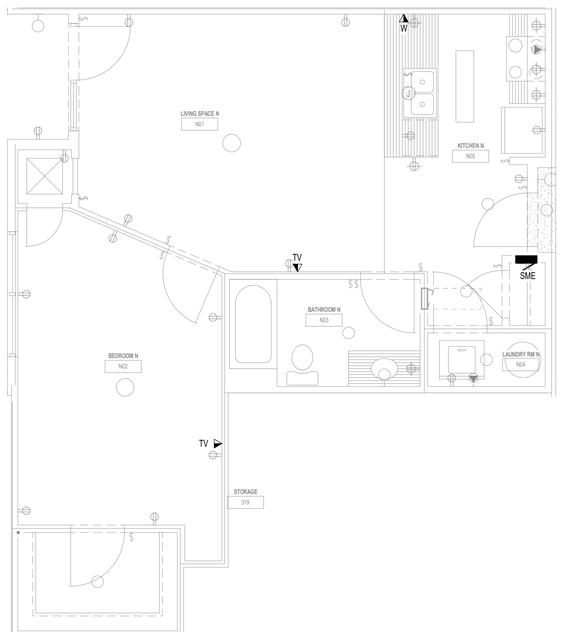


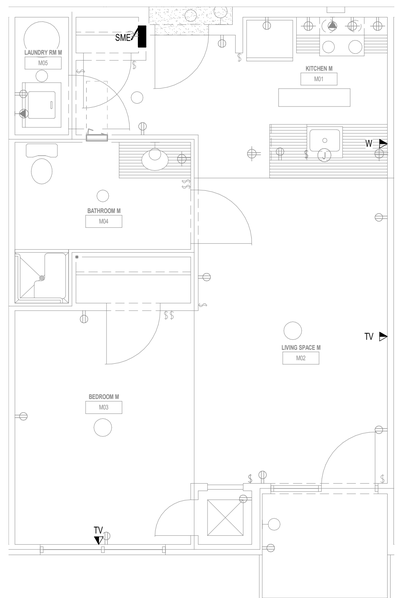
3 **STUDIO UNIT - TYPE O - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



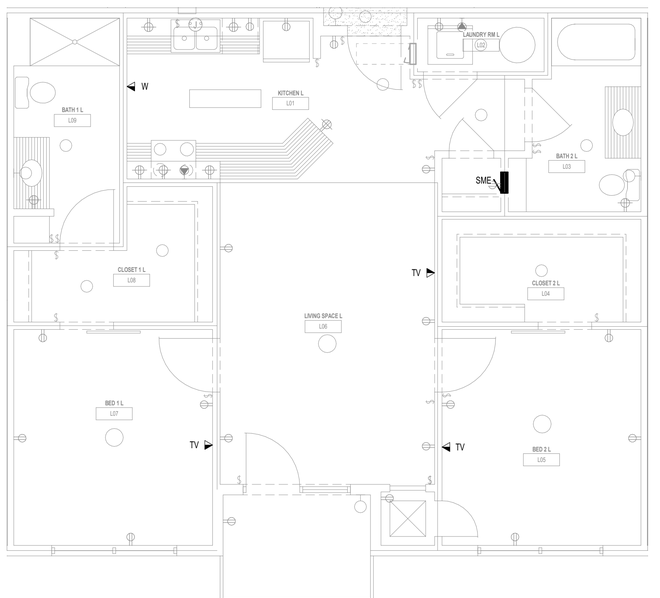
4 **ONE BEDROOM UNIT - TYPE N - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



2 **STUDIO UNIT - TYPE M - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'



1 **TWO BEDROOM UNIT - TYPE L - TECHNOLOGY**
1/4" = 1'-0"

0' 2' 4' 8' 16'

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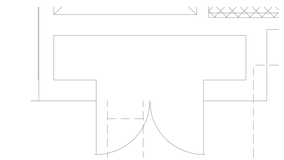
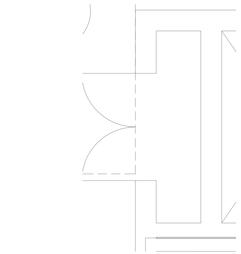
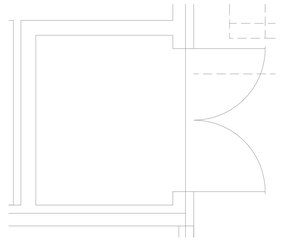


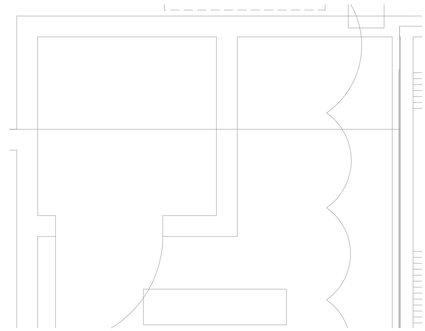
12 TYPICAL - IDF - SOUTHEAST (3RD-7TH)
1/2" = 1'-0"



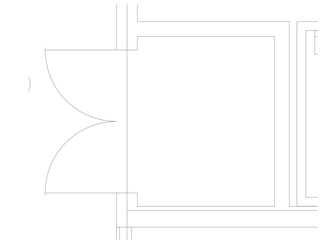
11 TYPICAL - IDF - SOUTH (3RD-7TH)
1/2" = 1'-0"



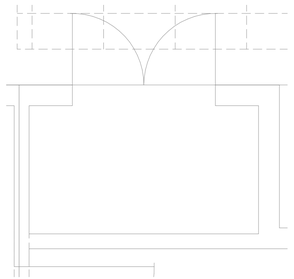
10 TYPICAL - IDF - SOUTHWEST (3RD-7TH)
1/2" = 1'-0"



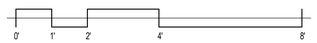
9 TYPICAL - IDF - WEST (3RD-7TH)
1/2" = 1'-0"

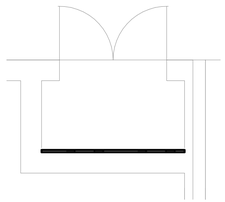


8 TYPICAL - IDF - NORTHWEST (3RD-7TH)
1/2" = 1'-0"

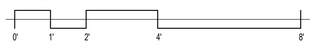


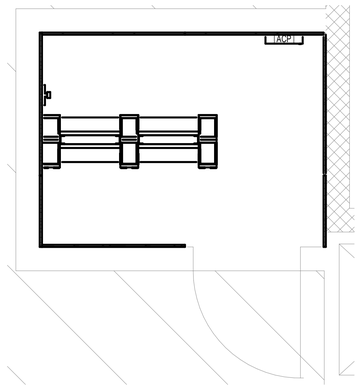
7 TYPICAL - IDF - NORTHEAST (3RD-7TH)
1/2" = 1'-0"



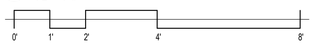


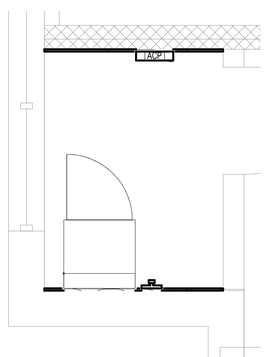
6 TYPICAL - IDF - EAST (3RD-7TH)
1/2" = 1'-0"



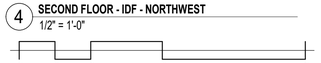


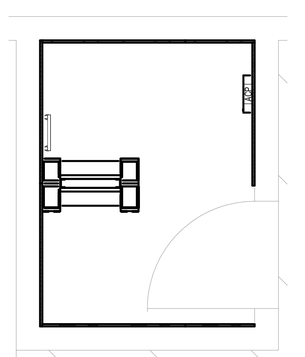
5 SECOND FLOOR - IDF - SOUTHEAST
1/2" = 1'-0"



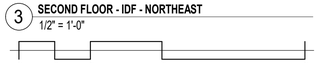


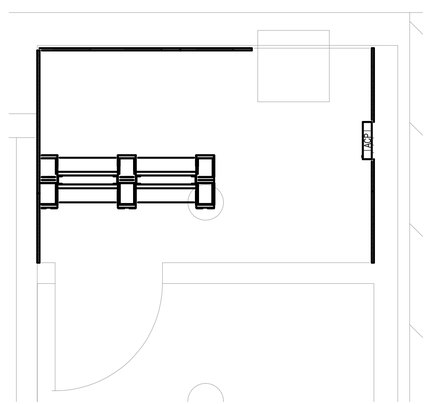
4 SECOND FLOOR - IDF - NORTHWEST
1/2" = 1'-0"



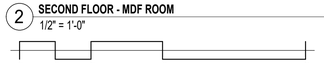


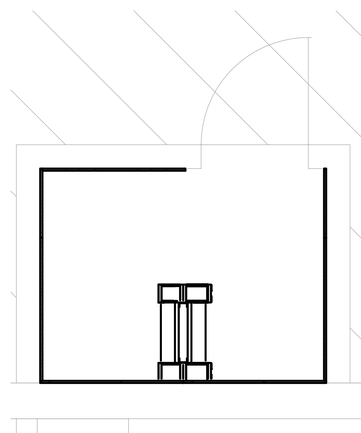
3 SECOND FLOOR - IDF - NORTHEAST
1/2" = 1'-0"



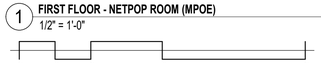


2 SECOND FLOOR - MDF ROOM
1/2" = 1'-0"





1 FIRST FLOOR - NETPOP ROOM (MPOE)
1/2" = 1'-0"



TECHNOLOGY NOTES

(00) Architecture - Reflected Ceiling Plan Sheet Note

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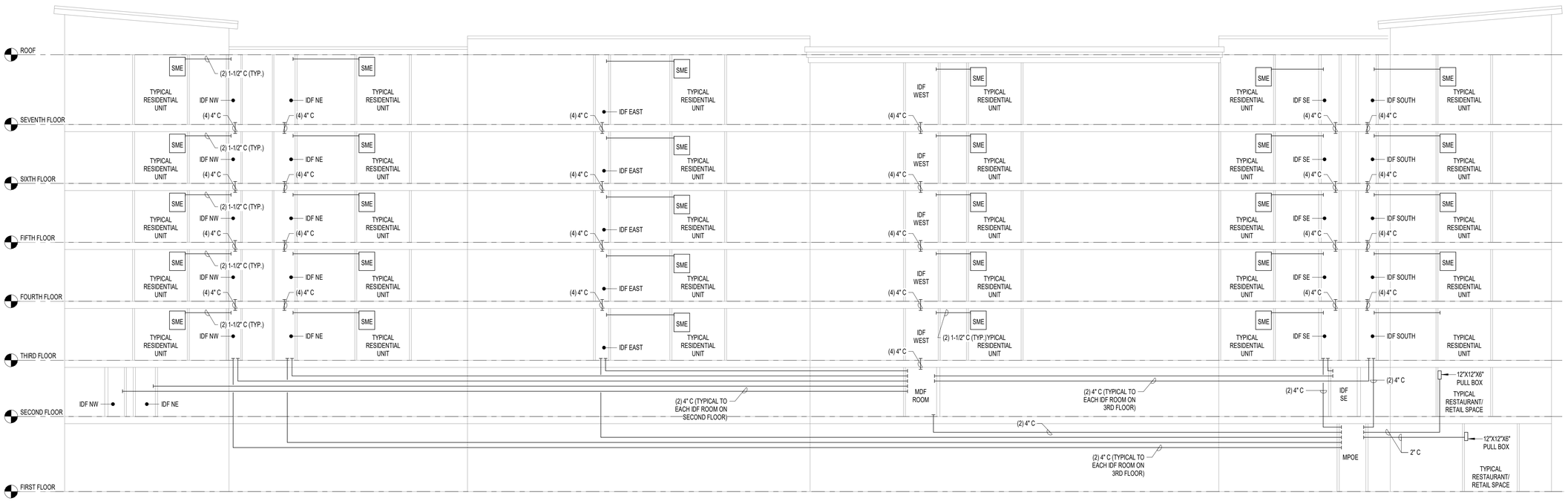

1 **CONDUIT RISER DIAGRAM**
NTS

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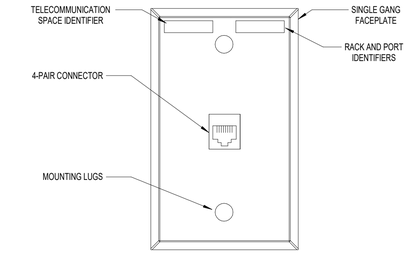


SYMBOL DESIGNATION:

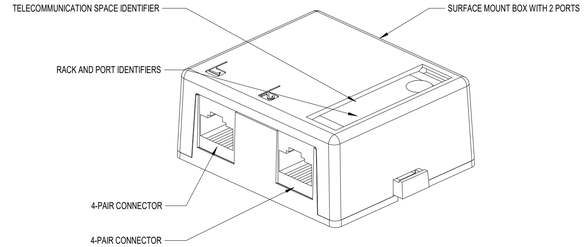
(1) 4-PAIR CABLE

W

OUTLET NOTES:

1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

9 WALL PHONE FACEPLATE DETAIL
NTS



NOTES:

1. COORDINATE LABELING WITH THE OWNER.

SYMBOL DESIGNATION:

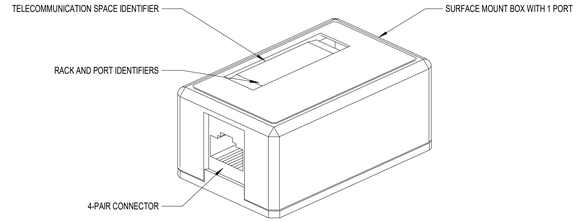
(2) 4-PAIR CABLE

B OR WAP

OUTLET NOTES:

1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

8 2 PORT SURFACE MOUNTED OUTLET DETAIL
NTS



SYMBOL DESIGNATION:

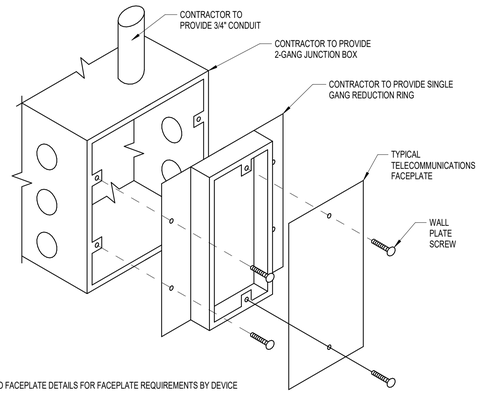
(1) 4-PAIR CABLE

BAS FACP OR

OUTLET NOTES:

1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

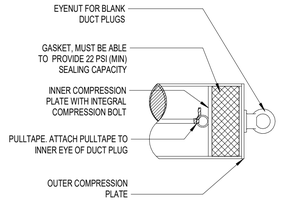
7 1 PORT SURFACE MOUNTED OUTLET DETAIL
NTS



NOTES:

1. REFER TO FACEPLATE DETAILS FOR FACEPLATE REQUIREMENTS BY DEVICE TYPE.
2. ROUTE A CONDUIT BETWEEN THE TELECOMMUNICATIONS DEVICE BACK-BOX AND THE CROSS CONNECT ROOM.
3. REFER TO TECHNOLOGY PLANS FOR DEVICE LOCATIONS AND QUANTITIES.

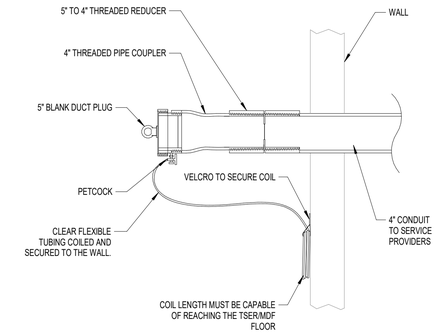
6 TYPICAL FLUSH MOUNTED TELECOMMUNICATIONS DEVICE ROUGH-IN DETAIL
NTS



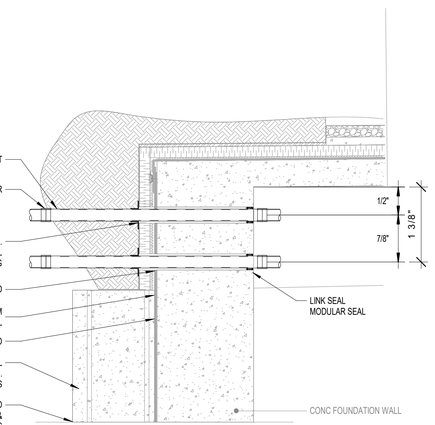
NOTES:

1. PROVIDE SUFFICIENT SLACK IN THE PULLTAPE TO ALLOW THE DUCT TO TRAVEL TO A HEIGHT OF 24" ABOVE THE BOTTOM OF THE VAULT OR FINISHED FLOOR WITHOUT DISCONNECTING THE PULLTAPE. PLACE SLACK INSIDE DUCT WHEN INSTALLING BLANK PLUG. PULL TAPE REQUIRED EVEN IF PULL TAPE IS INSTALLED INSIDE INNERDUCT IN SAME DUCT.

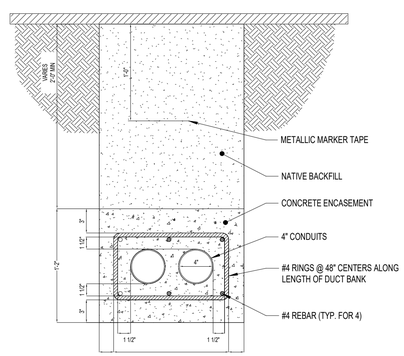
5 BLANK DUCT PLUG
NTS



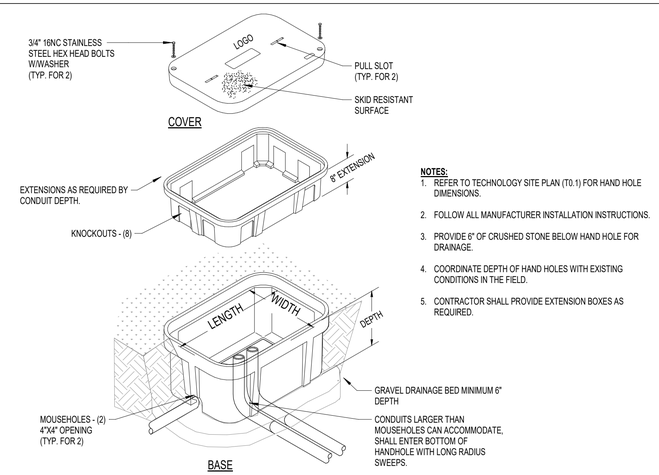
4 TSER/MDF - CONDUIT WITH VALVE EQUIPED ENTRANCE SEAL
NTS



3 TELCOMMUNICATIONS SERVICE FACILITIES CONDUIT PENETRATION EXAMPLE
NTS



2 DUCT BANK SECTION - (2) DUCTS
NTS



NOTES:

1. REFER TO TECHNOLOGY SITE PLAN (T0.1) FOR HAND HOLE DIMENSIONS.
2. FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS.
3. PROVIDE 6" OF CRUSHED STONE BELOW HAND HOLE FOR DRAINAGE.
4. COORDINATE DEPTH OF HAND HOLES WITH EXISTING CONDITIONS IN THE FIELD.
5. CONTRACTOR SHALL PROVIDE EXTENSION BOXES AS REQUIRED.

1 TYPICAL SITE HAND HOLE
NTS

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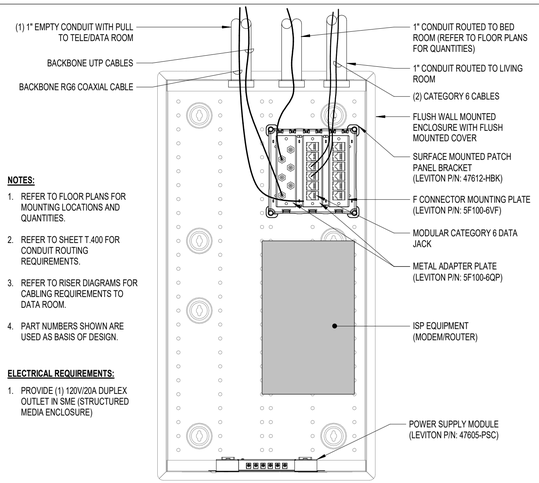
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

T6.0

JONES & JONES ASSOCIATES ARCHITECTS PC



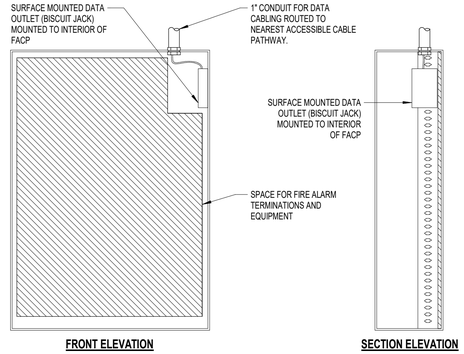
NOTES:

1. REFER TO FLOOR PLANS FOR MOUNTING LOCATIONS AND QUANTITIES.
2. REFER TO SHEET T.400 FOR CONDUIT ROUTING REQUIREMENTS.
3. REFER TO RISER DIAGRAMS FOR CABLING REQUIREMENTS TO DATA ROOM.
4. PART NUMBERS SHOWN ARE USED AS BASIS OF DESIGN.

ELECTRICAL REQUIREMENTS:

1. PROVIDE (1) 120V/20A DUPLEX OUTLET IN SME (STRUCTURED MEDIA ENCLOSURE)

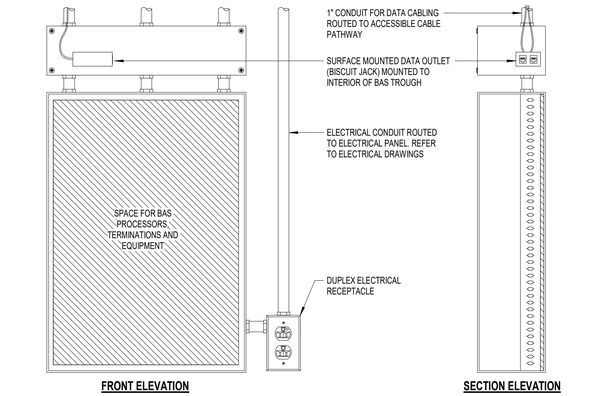
9 STRUCTURED MEDIA ENCLOSURE DETAIL - SME
NTS



DETAIL NOTES:

1. COORDINATE THE EXACT LOCATION OF THE DATA OUTLET AND ELECTRICAL RECEPTACLE WITH THE FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO FIRE ALARM PLANS AND DETAILS FOR THE EXACT PANEL AND EQUIPMENTCONFIGURATION AND DIMENSIONS.

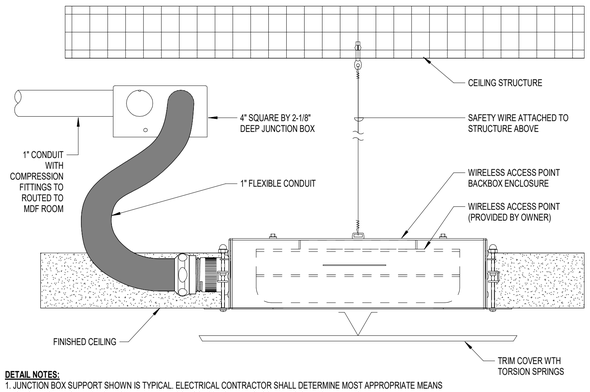
8 FIRE ALARM CONTROL PANEL OUTLET DETAIL
NTS



NOTES:

1. COORDINATE THE EXACT LOCATION OF THE DATA OUTLET AND ELECTRICAL RECEPTACLE WITH THE BAS CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO MECHANICAL AND TEMPERATURE CONTROLS PLANS AND DETAILS FOR THE EXACT PANEL AND EQUIPMENT CONFIGURATION AND DIMENSIONS.
3. DATA CABLING SHALL CONNECT TO OWNER'S LOCAL AREA NETWORK.

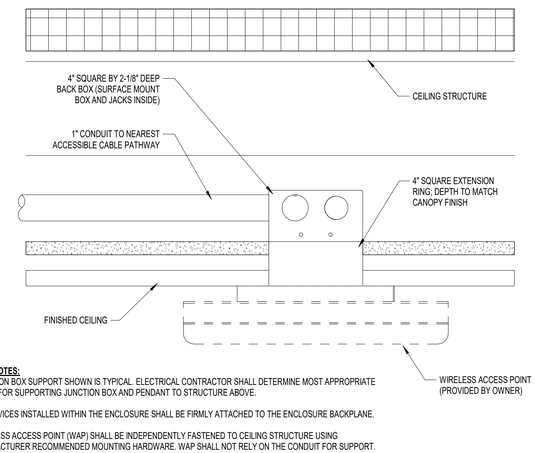
7 BAS PANEL DATA OUTLET & ELECTRICAL RECEPTACLE MOUNTING DETAIL
NTS



DETAIL NOTES:

1. JUNCTION BOX SUPPORT SHOWN IS TYPICAL. ELECTRICAL CONTRACTOR SHALL DETERMINE MOST APPROPRIATE MEANS FOR SUPPORTING JUNCTION BOX AND WIRELESS ACCESS POINT ENCLOSURE TO STRUCTURE ABOVE.
2. ALL DEVICES INSTALLED WITHIN THE ENCLOSURE SHALL BE FIRMLY ATTACHED TO THE ENCLOSURE BACKPLANE.
3. WIRELESS ACCESS POINT (WAP) ENCLOSURE SHALL BE INDEPENDENTLY FASTENED TO CEILING STRUCTURE USING MANUFACTURER RECOMMENDED MOUNTING HARDWARE. ENCLOSURE SHALL NOT RELY ON THE CONDUIT FOR SUPPORT.

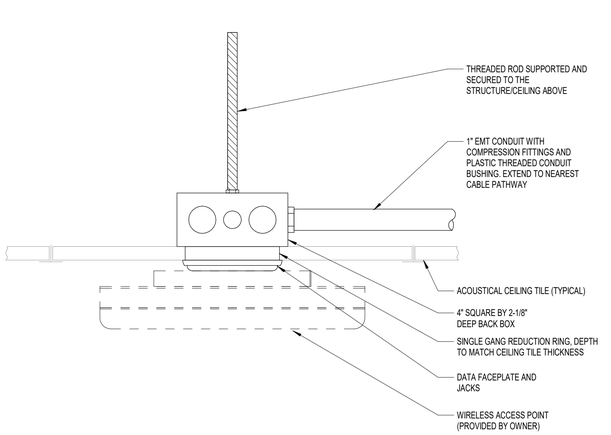
6 INTERIOR CEILING MOUNTED CONCEALED WIRELESS ACCESS POINT DETAIL (INACCESSIBLE CEILING)
NTS



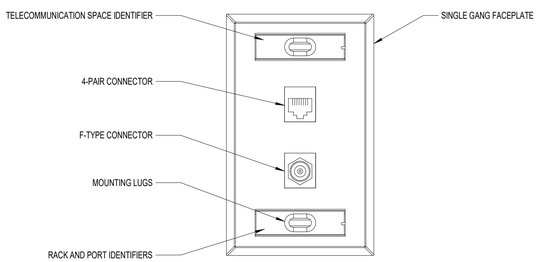
DETAIL NOTES:

1. JUNCTION BOX SUPPORT SHOWN IS TYPICAL. ELECTRICAL CONTRACTOR SHALL DETERMINE MOST APPROPRIATE MEANS FOR SUPPORTING JUNCTION BOX AND PENDANT TO STRUCTURE ABOVE.
2. ALL DEVICES INSTALLED WITHIN THE ENCLOSURE SHALL BE FIRMLY ATTACHED TO THE ENCLOSURE BACKPLANE.
3. WIRELESS ACCESS POINT (WAP) SHALL BE INDEPENDENTLY FASTENED TO CEILING STRUCTURE USING MANUFACTURER RECOMMENDED MOUNTING HARDWARE. WAP SHALL NOT RELY ON THE CONDUIT FOR SUPPORT.

5 INTERIOR CEILING MOUNTED WIRELESS ACCESS POINT DETAIL (INACCESSIBLE CEILING)
NTS



4 INTERIOR CEILING MOUNTED WIRELESS ACCESS POINT DETAIL (ACCESSIBLE CEILING)
NTS



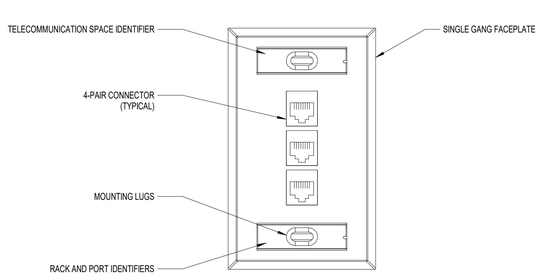
SYMBOL DESIGNATION:

TV — (1) 4-PAIR CABLE, (1) RG6 CABLE

OUTLET NOTES:

1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

3 2 PORT (DATA & COAX) FACEPLATE DETAIL
NTS



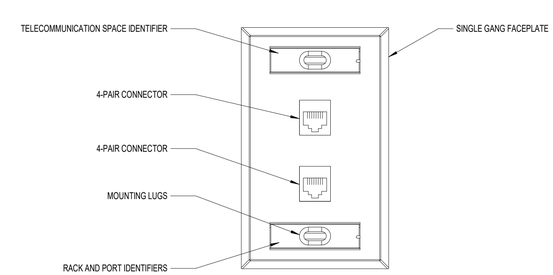
SYMBOL DESIGNATION:

C — (3) 4-PAIR CABLES

OUTLET NOTES:

1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

2 3 PORT DATA FACEPLATE DETAIL
NTS



SYMBOL DESIGNATION:

B | FPD — (2) 4-PAIR CABLES

OUTLET NOTES:

1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
2. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.

1 2 PORT DATA FACEPLATE DETAIL
NTS

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JMB
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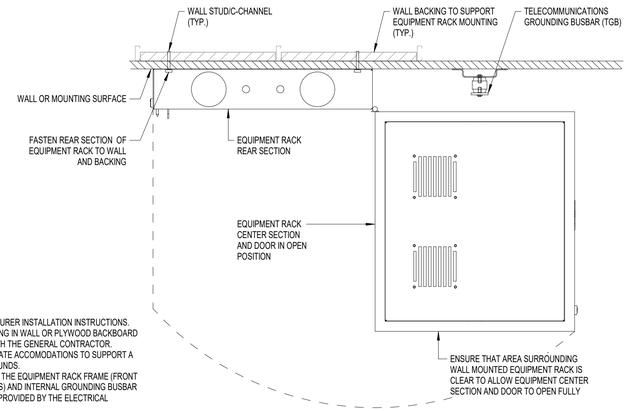
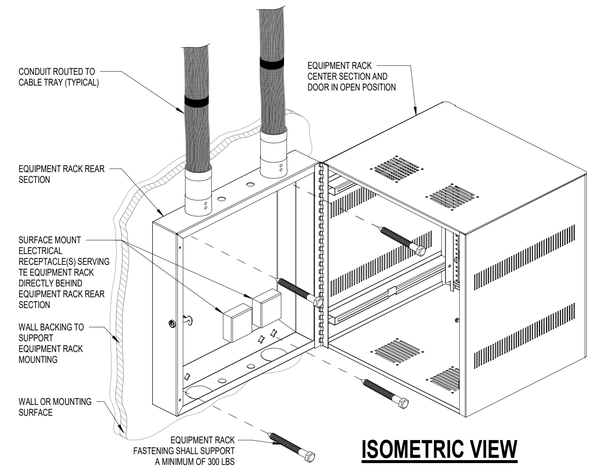
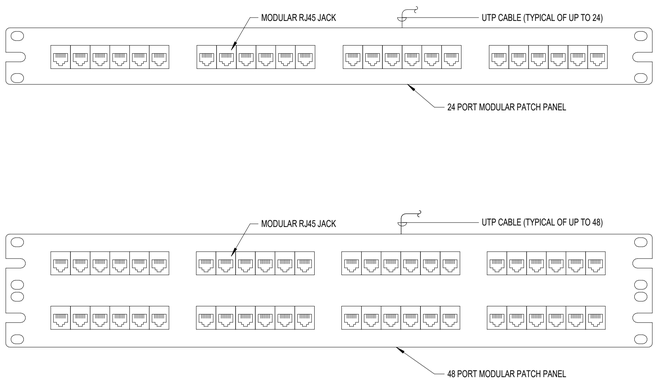


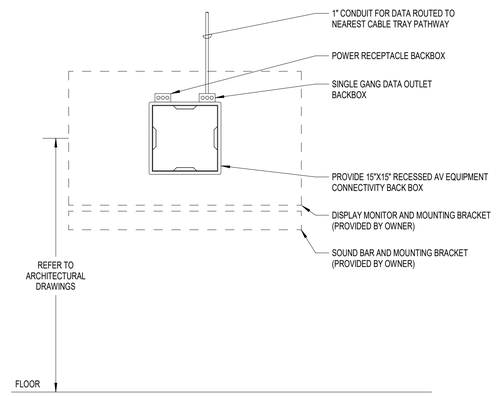
DETAIL NOTES:
1. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS.
2. COORDINATE BACKING IN WALL OR PLYWOOD BACKBOARD REQUIREMENTS WITH THE GENERAL CONTRACTOR. PROVIDE APPROPRIATE ACCOMODATIONS TO SUPPORT A MINIMUM OF 300 POUNDS.
3. GROUND AND BOND THE EQUIPMENT RACK FRAME (FRONT AND REAR SECTIONS) AND INTERNAL GROUNDING BUSBAR TO THE LOCAL TGB PROVIDED BY THE ELECTRICAL CONTRACTOR.



4 WALL MOUNTED TE CABINET - REAR SECTION INSTALLATION DETAIL
NTS

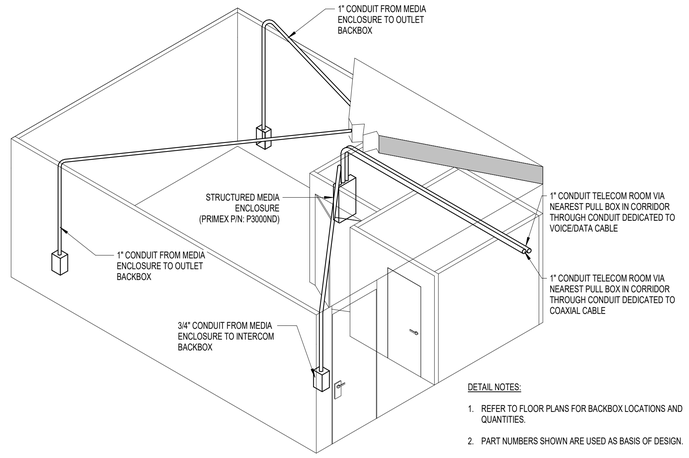


3 24 PORT & 48 PORT PATCH PANEL DETAIL
NTS



DETAIL NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS. MOUNTING ARE GIVEN FOR REFERENCE ONLY.
2. COORDINATE EXACT OUTLET CONFIGURATION WITH THE OWNER PROVIDED MONITOR MOUNTING BRACKET PRIOR TO ROUGH-IN.

2 WALL DISPLAY AUDIO/VISUAL AND DATA CONDUIT ROUGH-IN DETAIL (FPD)
NTS



DETAIL NOTES:
1. REFER TO FLOOR PLANS FOR BACKBOX LOCATIONS AND QUANTITIES.
2. PART NUMBERS SHOWN ARE USED AS BASIS OF DESIGN.

1 RESIDENTIAL UNIT CONDUIT ROUTING
NTS

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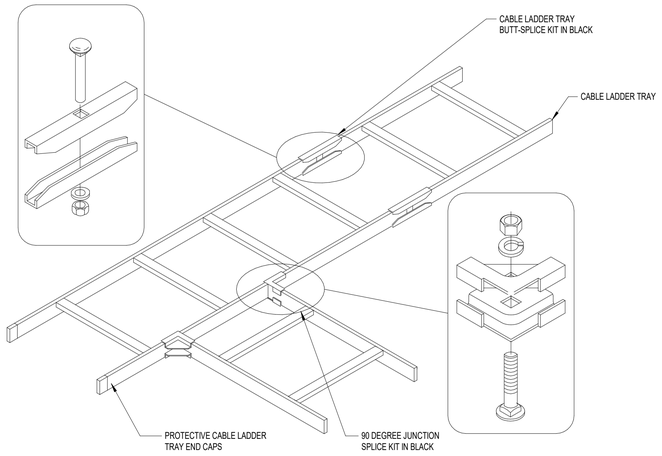
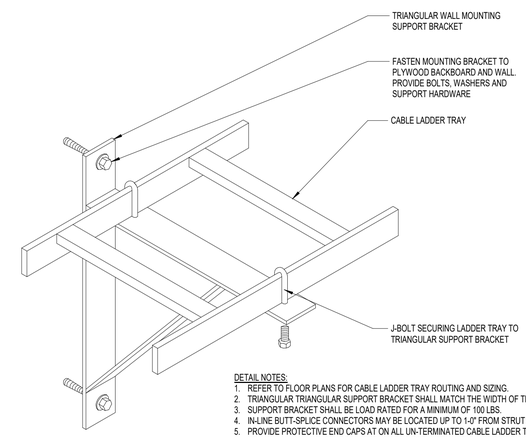
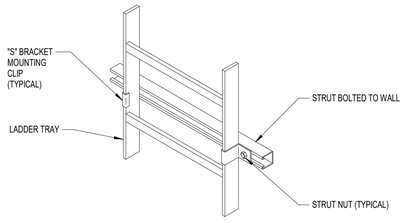
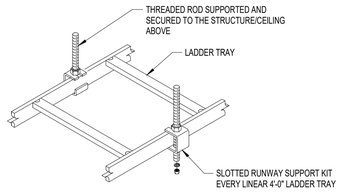


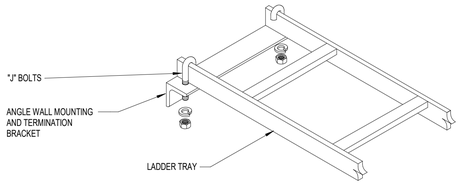


DETAIL NOTES:
1. REFER TO FLOOR PLANS FOR CABLE LADDER TRAY ROUTING AND SIZING.
2. TRIANGULAR TRIANGULAR SUPPORT BRACKET SHALL MATCH THE WIDTH OF THE CABLE LADDER TRAY IT IS SUPPORTING.
3. SUPPORT BRACKET SHALL BE LOAD RATED FOR A MINIMUM OF 100 LBS.
4. IN-LINE BUTT-SPLICE CONNECTORS MAY BE LOCATED UP TO 1-0" FROM STRUT SUPPORT MEMBERS.
5. PROVIDE PROTECTIVE END CAPS AT ON ALL UN-TERMINATED CABLE LADDER TRAY ENDS.
6. FOLLOW ALL MANUFACTURER INSTRUCTIONS FOR INSTALLATION. PROVIDE ANY ADDITIONAL MOUNTING HARDWARE NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION NOT INCLUDED IN THE BRACKET MOUNTING KIT.

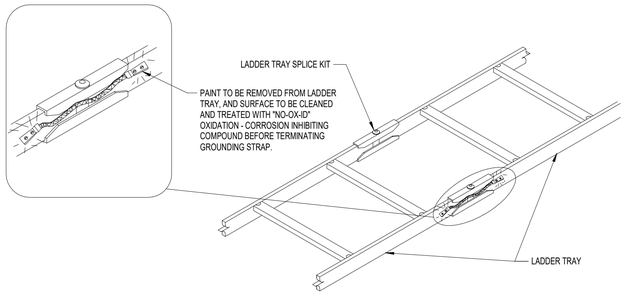
2 LADDER TRAY CANTILEVER WALL MOUNTING DETAIL
NTS







NOTES:
1. PROVIDE SUPPORTS NO MORE THAN 1'-0" FROM TOP AND BOTTOM OF TRAY. PROVIDE AT LEAST TWO VERTICAL SUPPORT POINTS, MOUNTED EVERY 4'-0" O.C.
2. BRAIDED GROUNDING STRAP #6 AWG - 6" LENGTH / (2) - #6 AWG 2-HOLE COMPRESSION LUGS.



1 LADDER TRAY INSTALLATION DETAILS
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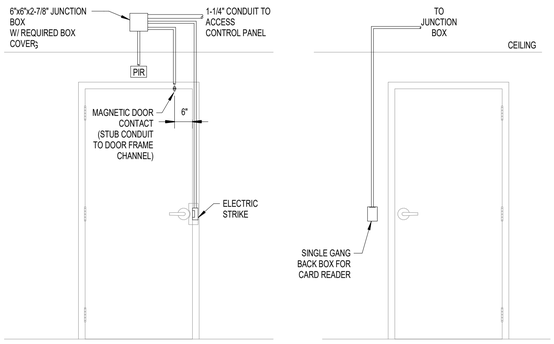
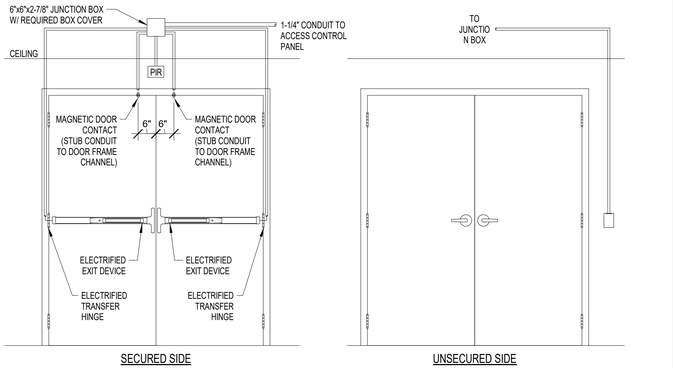


DETAIL NOTES:
1. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. REFER TO FLOOR PLANS FOR EXACT DOOR SWING.
3. REFER TO SHOP DRAWINGS FOR EXACT CONDUIT ROUGH-IN LOCATIONS.

DOOR OPERATION:
PRESENTATION OF A VALID CREDENTIAL SHALL UNLOCK THE ELECTRIC STRIKE FOR AUTHORIZED ENTRY. THE PIR SHALL INDICATE A VALID EGRESS. THE DOOR CONTACT SHALL MONITOR THE STATE OF THE DOOR AT ALL TIMES, CREATING AN ALARM WITHIN THE ELECTRONIC ACCESS CONTROL SYSTEM WHEN THE DOOR IS HELD OPEN FOR LONGER THAN A DURATION DETERMINED BY THE PROPERTY MANAGEMENT.

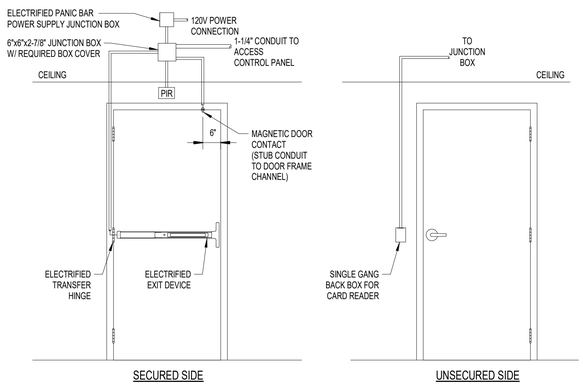
8 SINGLE DOOR W/CARD READER & ELECTRIC STRIKE
NTS



DETAIL NOTES:
1. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. REFER TO FLOOR PLANS FOR EXACT DOOR SWING.
3. REFER TO SHOP DRAWINGS FOR EXACT CONDUIT ROUGH-IN LOCATIONS.

DOOR OPERATION:
PRESENTATION OF A VALID CREDENTIAL OR ACTUATION OF THE INTERIOR PUSH PLATE SHALL SIGNAL THE LATCH TO RETRACT FOR AUTHORIZED ENTRY AND ACTIVATE THE POWER OPERATOR (FOLLOWING A SLIGHT DELAY). THE PIR SHALL INDICATE A VALID EGRESS. ACTUATION OF THE INTERIOR OR EXTERIOR PUSH PLATES SHALL ACTIVATE THE POWER OPERATOR (FOLLOWING A SLIGHT DELAY). THE DOOR CONTACT SHALL MONITOR THE STATE OF THE DOOR AT ALL TIMES, CREATING AN ALARM WITHIN THE ELECTRONIC ACCESS CONTROL SYSTEM WHEN THE DOOR IS HELD OPEN FOR LONGER THAN A DURATION DETERMINED BY THE PROPERTY MANAGEMENT.

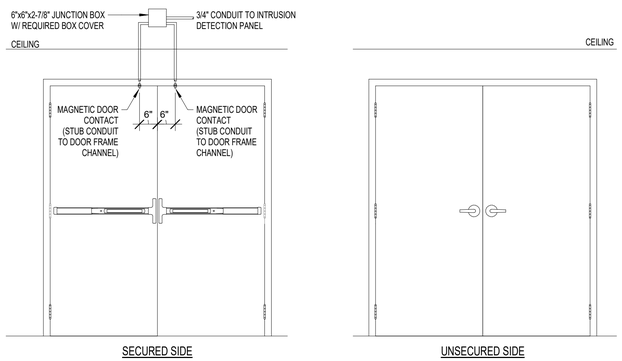
7 DOUBLE DOOR W/CARD READER
NTS



DETAIL NOTES:
1. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. REFER TO FLOOR PLANS FOR EXACT DOOR SWING.
3. REFER TO SHOP DRAWINGS FOR EXACT CONDUIT ROUGH-IN LOCATIONS.

DOOR OPERATION:
PRESENTATION OF A VALID CREDENTIAL SHALL SIGNAL THE LATCH TO RETRACT FOR AUTHORIZED ENTRY. THE REQUEST TO EXIT WITHIN THE EXIT DEVICE SHALL INDICATE A VALID EGRESS. THE DOOR CONTACT SHALL MONITOR THE STATE OF THE DOOR AT ALL TIMES, CREATING AN ALARM WITHIN THE ELECTRONIC ACCESS CONTROL SYSTEM WHEN THE DOOR IS HELD OPEN FOR LONGER THAN A DURATION DETERMINED BY THE PROPERTY MANAGEMENT.

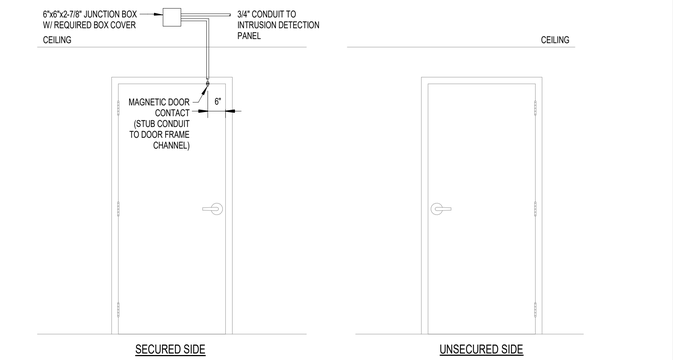
6 SINGLE DOOR W/CARD READER & ELECTRIFIED EXIT DEVICE
NTS



DETAIL NOTES:
1. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. REFER TO FLOOR PLANS FOR EXACT DOOR SWING.
3. REFER TO SHOP DRAWINGS FOR EXACT CONDUIT ROUGH-IN LOCATIONS.

DOOR OPERATION:
THE DOOR CONTACT SHALL MONITOR THE STATE OF THE DOOR AT ALL TIMES, CREATING AN ALARM WITHIN THE ELECTRONIC ACCESS CONTROL SYSTEM WHEN THE DOOR IS HELD OPEN FOR LONGER THAN A DURATION DETERMINED BY THE PROPERTY MANAGEMENT.

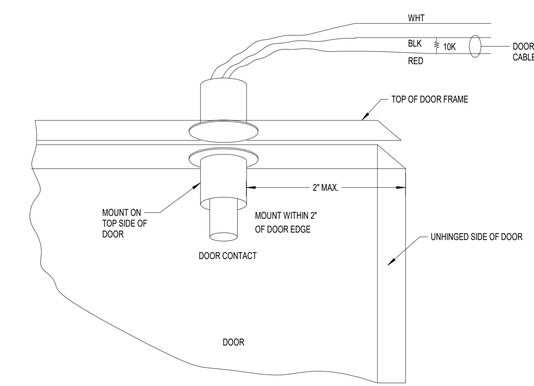
5 DOUBLE DOOR W/MAGNETIC DOOR CONTACT
NTS



DETAIL NOTES:
1. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. REFER TO FLOOR PLANS FOR EXACT DOOR SWING.
3. REFER TO SHOP DRAWINGS FOR EXACT CONDUIT ROUGH-IN LOCATIONS.

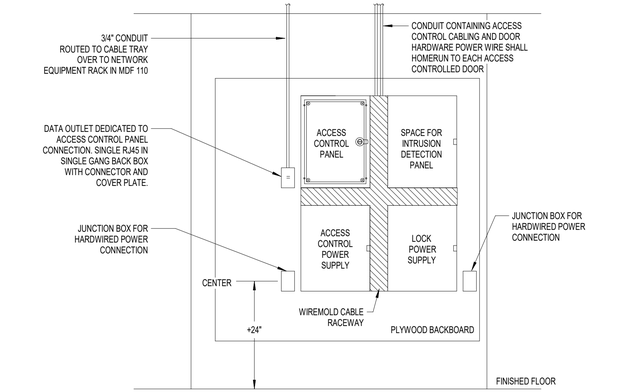
DOOR OPERATION:
THE DOOR CONTACT SHALL MONITOR THE STATE OF THE DOOR, CREATING AN ALARM WITHIN THE ELECTRONIC ACCESS CONTROL SYSTEM WHEN THE DOOR IS HELD OPEN FOR LONGER THAN A DURATION DETERMINED BY THE PROPERTY MANAGEMENT.

4 SINGLE DOOR W/MAGNETIC DOOR CONTACT
NTS



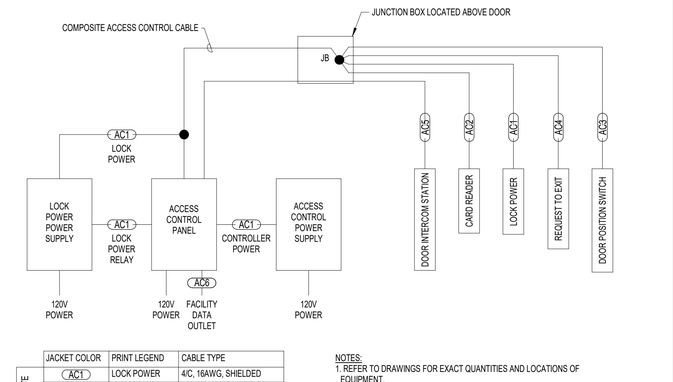
DETAIL NOTES:
1. FOR MULTIPLE CONTACTS ON ONE POINT, PARALLEL RED & BLACK WITH ONE 1.0K RESISTOR.

3 TYPICAL DOOR CONTACT DETAIL
NTS



NOTES:
1. ALL CABLING, LOCKS AND LOCK POWER SUPPLIES SHALL BE PROVIDED BY THE CONTRACTOR. ALL ELECTRONIC ACCESS CONTROL DEVICES INCLUDING BUT NOT LIMITED TO ACCESS CONTROL PANELS, ACCESS CONTROL POWER SUPPLIES AND CARD READERS SHALL BE PROVIDED BY SECURITY CONTRACTOR.
2. THE LOCK POWER SUPPLY(S) SHALL BE PROVIDED WITH THE DOOR HARDWARE PACKAGE.

2 ACCESS CONTROL PANEL AND POWER SUPPLY MOUNTING DETAIL
NTS



	JACKET COLOR	PRINT LEGEND	CABLE TYPE
COMPOSITE CABLE	AC1	LOCK POWER	4/C, 16AWG, SHIELDED
	AC2	CARD READER	3/P, 18AWG, SHIELDED
	AC3	DOOR CONTACT	2/C, 18AWG, SHIELDED
	AC4	REX/SPARE	4/C, 18AWG, SHIELDED
	AC5	TWISTED PAIR	2/C, 18AWG, SHIELDED
	AC6	DATA	CAT. 6, 4-PR UTP

NOTES:
1. REFER TO DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF EQUIPMENT.
2. REFER TO DOOR CONDUIT ROUGH-IN DETAILS FOR EXACT CONDUIT AND ASSOCIATED CABLING ROUTING.
3. REFER TO PLANS FOR SPECIFIC DOORS WITH INTERCOM STATIONS. NOT ALL DOORS WILL REQUIRE INTERCOM WIRING.
4. THE LOCK POWER SUPPLY(S) SHALL BE PROVIDED WITH THE DOOR HARDWARE PACKAGE.

1 TYPICAL ACCESS CONTROL DOOR WIRING DIAGRAM
NTS

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REVISION DATE
ISSUE FOR PERMIT 04.05.2021

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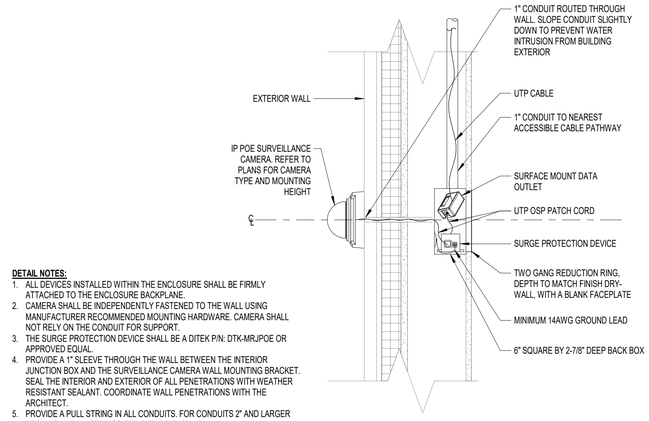
GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

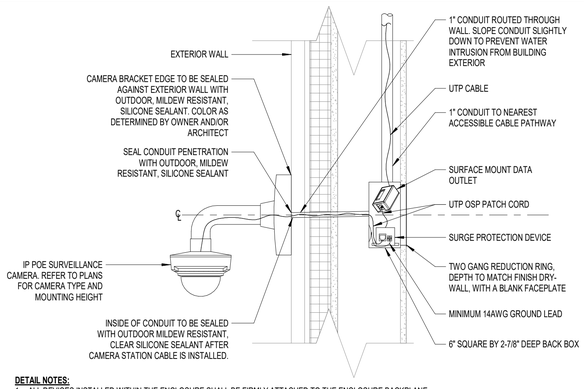
T6.4

JONES & JONES ASSOCIATES ARCHITECTS PC



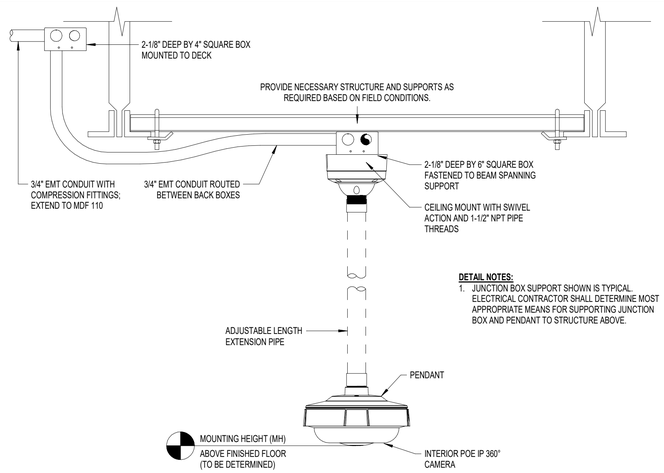
DETAIL NOTES:
1. ALL DEVICES INSTALLED WITHIN THE ENCLOSURE SHALL BE FIRMLY ATTACHED TO THE ENCLOSURE BACKPLANE.
2. CAMERA SHALL BE INDEPENDENTLY FASTENED TO THE WALL USING MANUFACTURER RECOMMENDED MOUNTING HARDWARE. CAMERA SHALL NOT RELY ON THE CONDUIT FOR SUPPORT.
3. THE SURGE PROTECTION DEVICE SHALL BE A DITEK P/N: DTK-MRJPOE OR APPROVED EQUAL.
4. PROVIDE A 1" SLEEVE THROUGH THE WALL BETWEEN THE INTERIOR JUNCTION BOX AND THE SURVEILLANCE CAMERA WALL MOUNTING BRACKET. SEAL THE INTERIOR AND EXTERIOR OF ALL PENETRATIONS WITH WEATHER RESISTANT SEALANT. COORDINATE WALL PENETRATIONS WITH THE ARCHITECT.
5. PROVIDE A PULL STRING IN ALL CONDUITS. FOR CONDUITS 2" AND LARGER PROVIDE (2) PULL STRINGS FOR FUTURE CABLING.

7 EXTERIOR IP CAMERA - WALL SURFACE MOUNT DETAIL
NTS



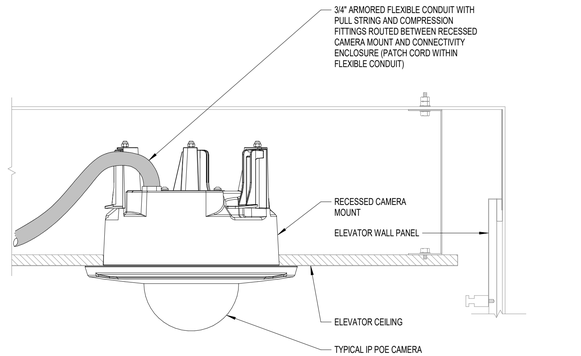
DETAIL NOTES:
1. ALL DEVICES INSTALLED WITHIN THE ENCLOSURE SHALL BE FIRMLY ATTACHED TO THE ENCLOSURE BACKPLANE.
2. CAMERA SHALL BE INDEPENDENTLY FASTENED TO THE WALL USING MANUFACTURER RECOMMENDED MOUNTING HARDWARE. CAMERA SHALL NOT RELY ON THE CONDUIT FOR SUPPORT.
3. THE SURGE PROTECTION DEVICE SHALL BE A DITEK P/N: DTK-MRJPOE OR APPROVED EQUAL. CONNECT A MINIMUM 14AWG GROUND LEAD TO THE GROUND TERMINAL ON THE SURGE PROTECTION DEVICE. ENSURE THE GROUND WIRE IS AS SHORT AS POSSIBLE.
4. PROVIDE A 1" SLEEVE THROUGH THE WALL BETWEEN THE INTERIOR JUNCTION BOX AND THE SURVEILLANCE CAMERA WALL MOUNTING BRACKET. SEAL THE INTERIOR AND EXTERIOR OF ALL PENETRATIONS WITH WEATHER RESISTANT SEALANT. COORDINATE WALL PENETRATIONS WITH THE ARCHITECT.
5. PROVIDE A PULL STRING IN ALL CONDUITS. FOR CONDUITS 2" AND LARGER PROVIDE (2) PULL STRINGS FOR FUTURE CABLING.

6 EXTERIOR IP CAMERA - WALL PENDANT MOUNT DETAIL
NTS



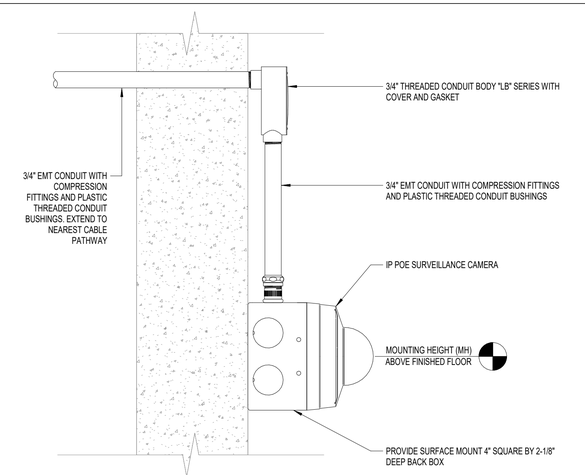
DETAIL NOTES:
1. JUNCTION BOX SUPPORT SHOWN IS TYPICAL. ELECTRICAL CONTRACTOR SHALL DETERMINE MOST APPROPRIATE MEANS FOR SUPPORTING JUNCTION BOX AND PENDANT TO STRUCTURE ABOVE.

5 INTERIOR IP CAMERA - PENDANT MOUNTED CAMERA DETAIL
NTS

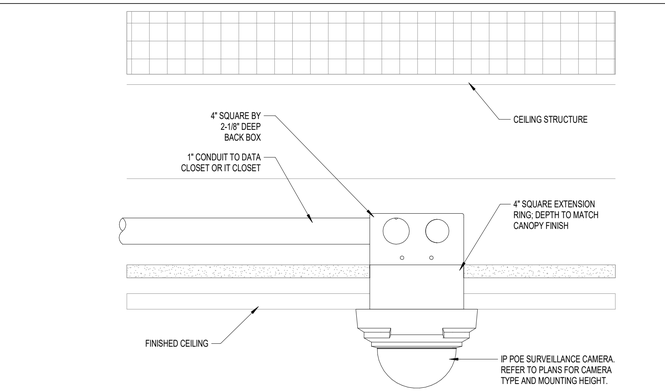


DETAIL NOTES:
1. CAMERAS AND ALL ASSOCIATED EQUIPMENT, CONDUIT AND BACK BOXES SHALL BE INDEPENDENTLY SUPPORTED AND SHALL NOT RELY ON ANY CEILING SUPPORT SYSTEM, FRAME OR CEILING TILE FOR SUPPORT. COORDINATE MOUNTING WITH ELEVATOR CONTRACTOR AND ARCHITECT PRIOR TO INSTALLATION. FOLLOW ALL MANUFACTURER MOUNTING INSTRUCTIONS.
2. REFER TO PLANS FOR LOCATIONS AND TYPES OF CAMERAS.
3. PROVIDE A CATEGORY 6 PATCH CORD (PURPLE) ROUTED BETWEEN THE CAMERA AND CONNECTIVITY ENCLOSURE MOUNTED TO ELEVATOR CAR. COORDINATE CONNECTION REQUIREMENTS AND WIRING WITHIN TRAVELLER CABLE WITH ELEVATOR CONTRACTOR.
4. LENGTH OF ARMORED FLEXIBLE CONDUIT WILL VARY BASED ON THE FINAL LOCATION OF THE CONNECTIVITY ENCLOSURE.

4 INTERIOR ELEVATOR CEILING MOUNTED CAMERA DETAIL
NTS

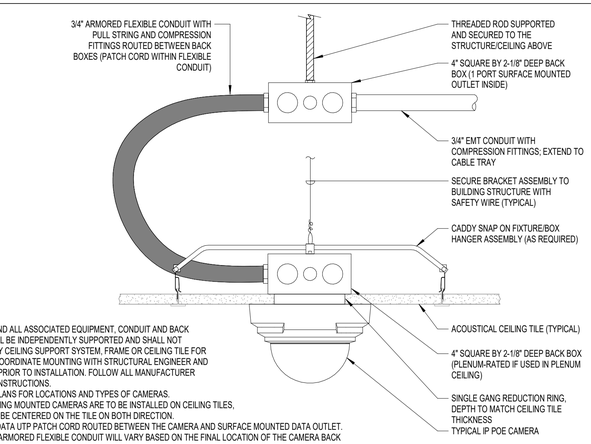


3 INTERIOR IP CAMERA - STAIRWELL WALL MOUNTED DETAIL
NTS



DETAIL NOTES:
1. JUNCTION BOX SUPPORT SHOWN IS TYPICAL. ELECTRICAL CONTRACTOR SHALL DETERMINE MOST APPROPRIATE MEANS FOR SUPPORTING JUNCTION BOX AND PENDANT TO STRUCTURE ABOVE.
2. ALL DEVICES INSTALLED WITHIN THE ENCLOSURE SHALL BE FIRMLY ATTACHED TO THE ENCLOSURE BACKPLANE.
3. CAMERA SHALL BE INDEPENDENTLY FASTENED TO CEILING STRUCTURE USING MANUFACTURER RECOMMENDED MOUNTING HARDWARE. CAMERA SHALL NOT RELY ON THE CONDUIT FOR SUPPORT.

2 INTERIOR IP CAMERA - CEILING MOUNTED (INACCESSIBLE CEILING)
NTS



DETAIL NOTES:
1. CAMERAS AND ALL ASSOCIATED EQUIPMENT, CONDUIT AND BACK BOXES SHALL BE INDEPENDENTLY SUPPORTED AND SHALL NOT RELY ON ANY CEILING SUPPORT SYSTEM, FRAME OR CEILING TILE FOR SUPPORT. COORDINATE MOUNTING WITH STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. FOLLOW ALL MANUFACTURER MOUNTING INSTRUCTIONS.
2. REFER TO PLANS FOR LOCATIONS AND TYPES OF CAMERAS.
3. WHERE CEILING MOUNTED CAMERAS ARE TO BE INSTALLED ON CEILING TILES, THEY SHALL BE CENTERED ON THE TILE ON BOTH DIRECTION.
4. PROVIDE A DATA UTP PATCH CORD ROUTED BETWEEN THE CAMERA AND SURFACE MOUNTED DATA OUTLET.
5. LENGTH OF ARMORED FLEXIBLE CONDUIT WILL VARY BASED ON THE FINAL LOCATION OF THE CAMERA BACK BOX.
6. LEAVE ADDITIONAL 10-15 FT OF SLACK CABLE COILED INSIDE UPPER BACK BOX, DO NOT EXCEED MINIMUM BEND RADIUS REQUIREMENTS.

1 INTERIOR IP CAMERA - SURFACE CEILING MOUNTED (ACCESSIBLE CEILING)
NTS

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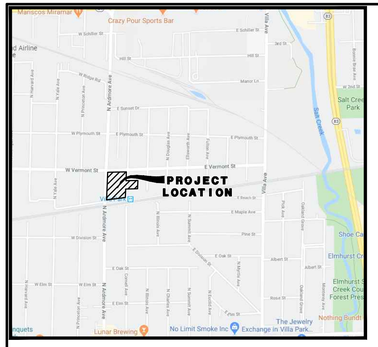
GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
15 APR 2021

T6.5

JONES & JONES ASSOCIATES ARCHITECTS PC



LOCATION MAP

TOTAL AREA OF SUBDIVISION

2.90 ACRES

(MORE OR LESS)

ZONING EXISTING & PROPOSED

MX-1

BUILDING SQ FT AREA:

1st = 114,104 SQ. FT.
2nd = 114,229 SQ. FT.
3rd = 71,622 SQ. FT.
4th THRU 7th = 71,024 SW. FT. PER FLOOR
TOTAL AREA = 584,051 SQ. FT.

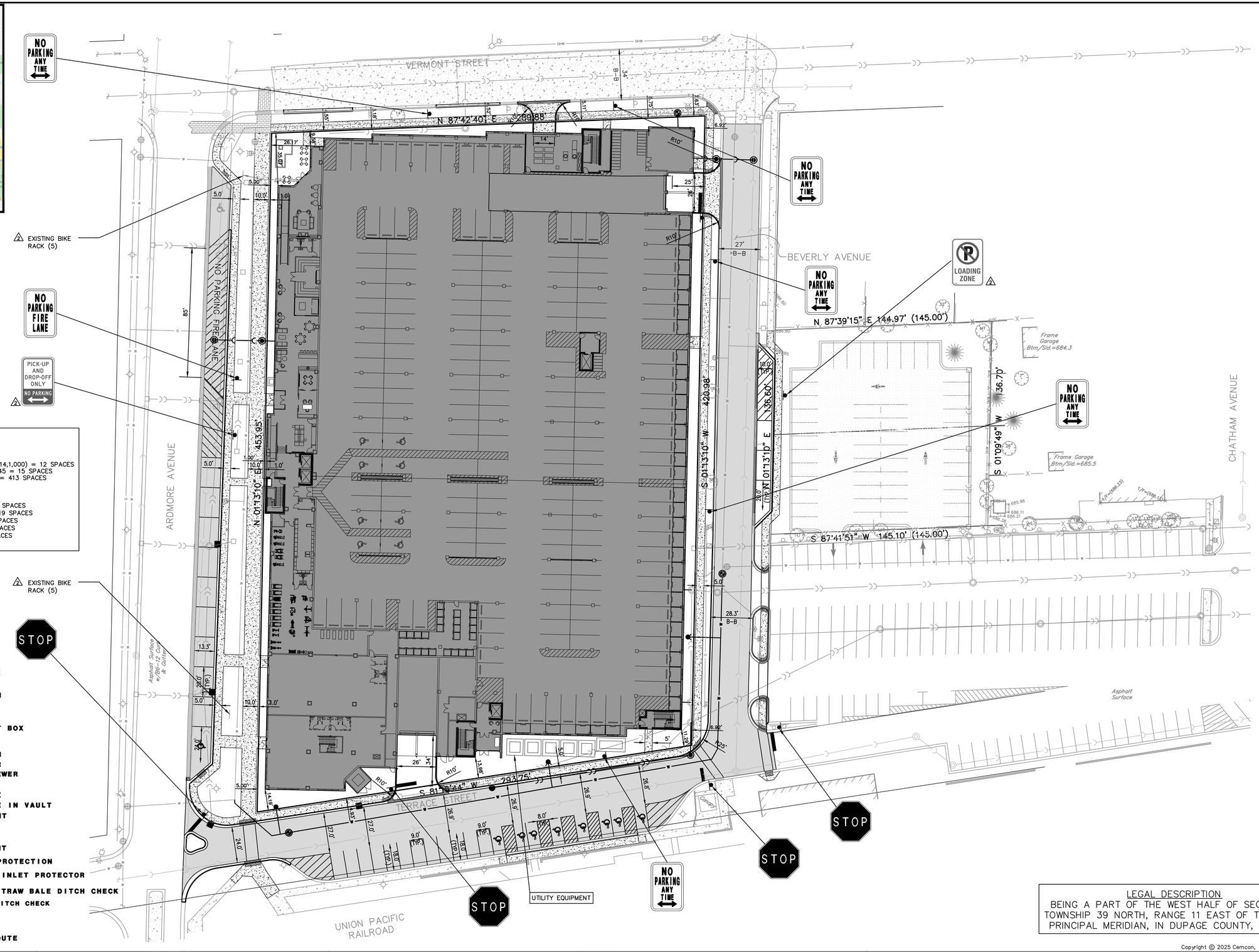
PARKING REQUIREMENTS

DEVELOPMENT SITE:
REQUIRED:
- -RETAIL, 4 SPACES PER 1,000 SQ. FT. = 4 x (2,814,1,000) = 12 SPACES
- -RESTAURANT, 0.33 SPACES PER SEAT = 0.33 x 45 = 15 SPACES
- -RESIDENTIAL, 1 SPACE PER BEDROOM = 1 x 413 = 413 SPACES
- -TOTAL REQUIRED = 440 SPACES

ACTUAL:
- -INTERIOR PARKING GARAGE (FIRST FLOOR) = 202 SPACES
- -INTERIOR PARKING GARAGE (SECOND FLOOR) = 219 SPACES
- -ON STREET PARKING (ARDMORE AVENUE) = 13 SPACES
- -ON STREET PARKING (TERRACE STREET) = 20 SPACES
- -ON STREET PARKING (BEVERLY AVENUE) = 5 SPACES
- -TOTAL ACTUAL = 459 SPACES

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		MANHOLE
		CATCH BASIN
		INLET
		CLEANOUT
		SLOPE INLET BOX
		HEADWALL
		END SECTION
		STORM SEWER
		SANITARY SEWER
		WATERMAIN
		VALVE & BOX
		WATER VALVE IN VAULT
		FIRE HYDRANT
		CONTOURS
(ELEV)	ELEV	ELEVATIONS
		STREET LIGHT
		WATERMAIN PROTECTION
		SILT FENCE INLET PROTECTOR
		TEMPORARY STRAW BALE DITCH CHECK
		SILT FENCE DITCH CHECK
		RIP-RAP
		OVERFLOW ROUTE



EXISTING BIKE RACK (5)

STOP

LEGAL DESCRIPTION

BEING A PART OF THE WEST HALF OF SECTION 3, TOWNSHIP 39 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS.

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PREPARED FOR:
HAWTHORNE VILLA PARK LP
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PREPARED BY:
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Aurora, Illinois 60502-9675
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REVISIONS

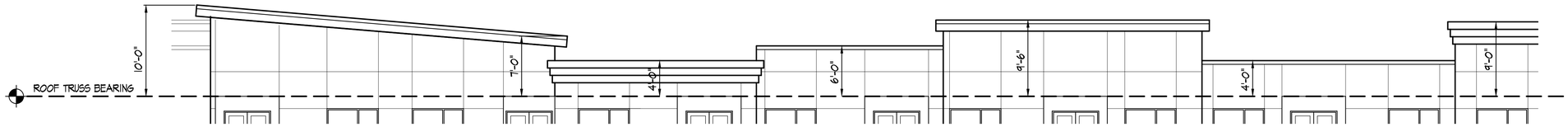
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	10-31-25/BCD	REVISED PER VILLAGE REVIEW DATED 10-22-2025			
2	12-12-25/JJC	REVISED PER VILLAGE REVIEW DATED 12-17-2025			

FINAL SITE PLAN

GARDEN STATION APARTMENTS

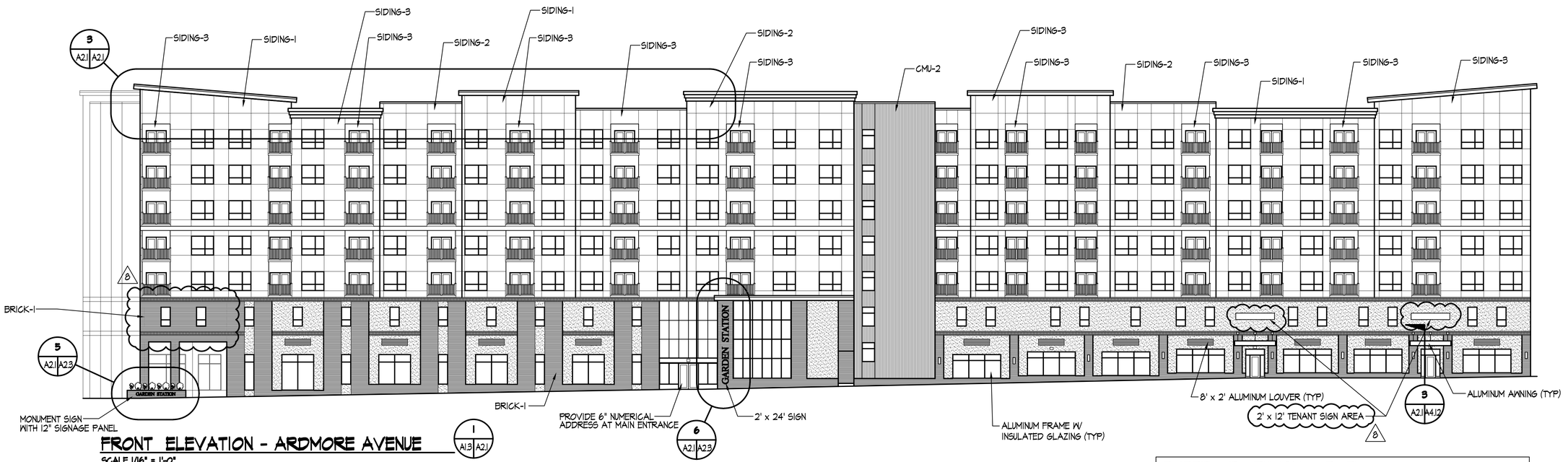
FILE NAME: FINAL SITE PLAN	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 09-30-2025	SCALE: 1" = 30'	1 of 1

PLOT FILE CREATED: 1/9/2026 2:38 PM BY BRANDON DAVID DRAWING LAST SAVED: 1/9/2026 2:38 PM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\EXHIBITS\FINAL SITE PLAN.DWG



LARGE SCALE PARAPET ELEVATION

SCALE 1/16" = 1'-0"



FRONT ELEVATION - ARDMORE AVENUE

SCALE 1/16" = 1'-0"

RIGHT SIDE ELEVATION - TERRACE STREET

SCALE 1/16" = 1'-0"

EXTERIOR FINISH LEGEND

	PRODUCT	COLOR BASIS OF DESIGN
CMU-1	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU COLOR: CASTLE WHITE	MFR: SHERWIN WILLIAMS COLOR ID: SW2829 COLOR: CLASSICAL WHITE
CMU-2	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU 5-SCORE COLOR: KANTA BROWN	MFR: SHERWIN WILLIAMS COLOR ID: SW2808 COLOR: ROOKWOOD DARK BROWN
BRICK-1	BRICK MFR: GENERAL SHALE COLLECTION: DENVER COLOR: OLD CHICAGO	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: RENWICK GOLDEN OAK
SIDING-1	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: LIGHT MIST	MFR: SHERWIN WILLIAMS COLOR ID: SW2844 COLOR: ROYCROFT MIST GRAY
SIDING-2	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: GRAY SLATE	MFR: SHERWIN WILLIAMS COLOR ID: SW2821 COLOR: DOWNING STONE
SIDING-3	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: IRON GRAY	MFR: SHERWIN WILLIAMS COLOR ID: SW2848 COLOR: ROYCROFT PEWTER

NOTE
SUBSTITUTIONS SHALL BE ALLOWED FOR ALL EXTERIOR FINISHES PROVIDED THAT THEY MAINTAIN SIMILAR ELEMENTS OF ARCHITECTURAL DESIGN AND MEET ALL LOCAL ZONING ORDINANCES. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

REVISION DATE
1 - 6 JUL 2021
2 - 8 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025
7 - 31 OCT 2025
8 - 17 DEC 2025

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ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2798
DATE
18 JUN 2021

A2.1

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LEFT SIDE ELEVATION - VERMONT STREET

SCALE 1/16" = 1'-0"

1 A1.3 | A2.2

EXTERIOR FINISH LEGEND

	PRODUCT	COLOR BASIS OF DESIGN
CMU-1	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU COLOR: CASTLE WHITE	MFR: SHERWIN WILLIAMS COLOR ID: SW2829 COLOR: CLASSICAL WHITE
CMU-2	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU 5-SCORE COLOR: KANTA BROWN	MFR: SHERWIN WILLIAMS COLOR ID: SW2808 COLOR: ROOKWOOD DARK BROWN
BRICK-1	BRICK MFR: GENERAL SHALE COLLECTION: DENVER COLOR: OLD CHICAGO	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: RENWICK GOLDEN OAK
SIDING-1	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: LIGHT MIST	MFR: SHERWIN WILLIAMS COLOR ID: SW2844 COLOR: ROYCROFT MIST GRAY
SIDING-2	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: GRAY SLATE	MFR: SHERWIN WILLIAMS COLOR ID: SW2821 COLOR: DOWNING STONE
SIDING-3	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: IRON GRAY	MFR: SHERWIN WILLIAMS COLOR ID: SW2848 COLOR: ROYCROFT PEWTER

NOTE
SUBSTITUTIONS SHALL BE ALLOWED FOR ALL EXTERIOR FINISHES PROVIDED THAT THEY MAINTAIN SIMILAR ELEMENTS OF ARCHITECTURAL DESIGN AND MEET ALL LOCAL ZONING ORDINANCES. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

REAR ELEVATION - BEVERLY AVENUE

SCALE 1/16" = 1'-0"

2 A1.3 | A2.2

REVISION DATE
1 - 6 JUL 2021
2 - 8 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025
7 - 31 OCT 2025
8 - 17 DEC 2025

GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
18 JUN 2021

A2.2

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COURTYARD EXTERIOR ELEVATION - ARDMORE STREET

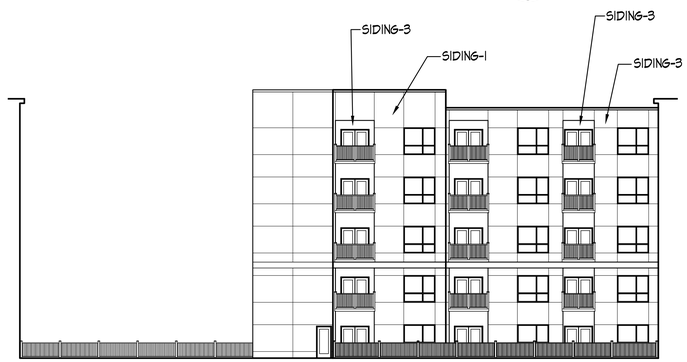
SCALE 1/16" = 1'-0"

1 / A1.3 | A2.3

COURTYARD EXTERIOR ELEVATION - BEVERLY AVENUE

SCALE 1/16" = 1'-0"

2 / A1.3 | A2.3



COURTYARD EXTERIOR ELEVATION - TERRACE STREET

SCALE 1/16" = 1'-0"

3 / A1.3 | A2.3

COURTYARD EXTERIOR ELEVATION - VERMONT STREET

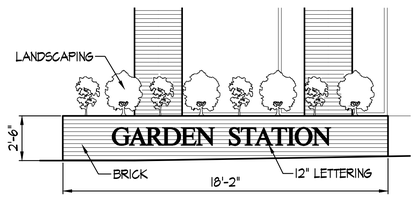
SCALE 1/16" = 1'-0"

4 / A1.3 | A2.3

EXTERIOR FINISH LEGEND

	PRODUCT	COLOR BASIS OF DESIGN
CMU-1	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU COLOR: CASTLE WHITE	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: CLASSICAL WHITE
CMU-2	CONCRETE MASONRY UNITS MFR: KANTA PRODUCT: SPLIT FACE CMU 5-SCORE COLOR: KANTA BROWN	MFR: SHERWIN WILLIAMS COLOR ID: SW2808 COLOR: ROOKWOOD DARK BROWN
BRICK-1	BRICK MFR: GENERAL SHALE COLLECTION: DENVER COLOR: OLD CHICAGO	MFR: SHERWIN WILLIAMS COLOR ID: SW2824 COLOR: RENWICK GOLDEN OAK
SIDING-1	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: LIGHT MIST	MFR: SHERWIN WILLIAMS COLOR ID: SW2844 COLOR: ROYCROFT MIST GRAY
SIDING-2	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: GRAY SLATE	MFR: SHERWIN WILLIAMS COLOR ID: SW2821 COLOR: DOMINING STONE
SIDING-3	CEMENTITIOUS SIDING MFR: JAMES HARDIE PRODUCT: HARDIE PANEL SIDING COLOR: IRON GRAY	MFR: SHERWIN WILLIAMS COLOR ID: SW2848 COLOR: ROYCROFT PEWTER

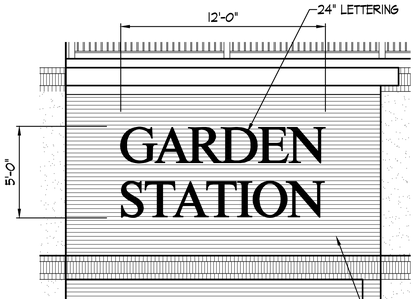
NOTE
SUBSTITUTIONS SHALL BE ALLOWED FOR ALL EXTERIOR FINISHES PROVIDED THAT THEY MAINTAIN SIMILAR ELEMENTS OF ARCHITECTURAL DESIGN AND MEET ALL LOCAL ZONING ORDINANCES. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.



MONUMENT SIGN

SCALE 1/4" = 1'-0"

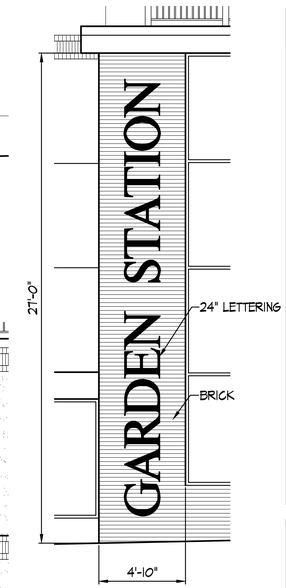
5 / A2.1 | A2.3



MONUMENT SIGN

SCALE 1/4" = 1'-0"

7 / A2.1 | A2.3



BUILDING SIGN

SCALE 1/4" = 1'-0"

6 / A2.1 | A2.3

REVISION DATE
1 - 6 JUL 2021
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GARDEN STATION APARTMENTS
ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
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DATE
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A2.3

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GARDEN
ETATION

GARDEN
STATION

FINAL SITE DEVELOPMENT PLANS

FOR

GARDEN STATION APARTMENTS

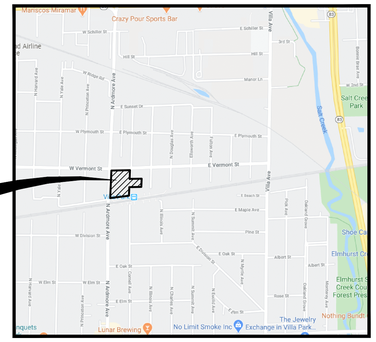
VILLA PARK, ILLINOIS

WATERMAIN-SANITARY SEWER-STREET-STREET LIGHTING AND DRAINAGE IMPROVEMENTS

LEGEND

EXISTING	PROPOSED	DESCRIPTION
◎	◉	MANHOLE
○	●	CATCH BASIN
□	■	INLET
	⬣	CLEANOUT
	▭	SLOPE INLET BOX
⊣	⊣	HEADWALL
⊲	◀	END SECTION
----------	----------	STORM SEWER
----------	----------	SANITARY SEWER
		WATERMAIN
⊗	◔	VALVE & BOX
⊛	◉	WATER VALVE IN VAULT
♉	♉	FIRE HYDRANT
----------	----------	CONTOURS
(ELEV)	ELEV	ELEVATIONS
⌘	✹	STREET LIGHT
	▨	WATERMAIN PROTECTION
	▣	SILT FENCE INLET PROTECTOR
	◠	TEMPORARY STRAW BALE DITCH CHECK
- - - -	- - - -	SILT FENCE DITCH CHECK
	▩	RIP-RAP
	➡	OVERFLOW ROUTE

PROJECT LOCATION



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LOCATION MAP

INDEX OF SHEETS

Sheet Number	Sheet Title
01	TITLE
02	CONSTRUCTION SPECIFICATIONS – GENERAL NOTES
03	CONSTRUCTION SPECIFICATIONS – GENERAL NOTES (CONTINUED)
04	EXISTING CONDITIONS
05–06	DEMOLITION PLAN
07	GEOMETRIC PLAN
08–10	DRAINAGE AND GRADING PLAN
10A	ADA GRADING PLAN
11	UTILITY PLAN
12–13	CONSTRUCTION DETAILS
ER1	STORMWATER POLLUTION PREVENTION PLAN
ER2	STORMWATER POLLUTION PREVENTION PLAN NOTES
ER3	STORMWATER POLLUTION PREVENTION PLAN DETAILS

BENCH MARKS

ELEVATION REFERENCE MARK:

DUPAGE COUNTY BENCHMARK YK09003 (PID DK3105):
STATION IS LOCATED ALONG HARVARD AVENUE, BETWEEN ITS INTERSECTION WITH CENTRAL BOULEVARD AND ITS INTERSECTION WITH PARK AVENUE. STATION 15.4 FT EAST OF THE CENTERLINE OF HARVARD AVENUE, 89.5 FT NORTH OF THE CENTERLINE OF PARK AVENUE, AND 79.5 FT SOUTH OF THE CENTERLINE OF CENTRAL BOULEVARD. MONUMENT IS 1 FT BELOW GRADE OF GROUND AND IS FERROMAGNETIC.
ELEVATION: 707.14 NAVD88

CONTROL POINTS:

CP #103: SET '+' IN TOP OF CURB ON NORTH SIDE OF ENTRANCE TO PARKING LOT FOR VILLA PARK METRA STOP NEAR SOUTHWEST CORNER OF SUBJECT SITE. APPROXIMATELY 81' EAST OF THE CENTERLINE OF THE PAVEMENT OF ARDMORE AVENUE.
NORTHING: 1905073.63
EASTING: 1080781.14
ELEVATION: 694.81 NAVD88

CP #106: SET '+' IN CONCRETE SIDEWALK NEAR THE NORTHWEST CORNER OF SUBJECT SITE APPROXIMATELY 4.6 FEET NORTH OF A FIRE HYDRANT.
NORTHING: 1905519.75
EASTING: 1080759.86
ELEVATION: 689.12 NAVD88

I, KEVIN T. SERAFIN, HEREBY CERTIFY THAT ADEQUATE STORM WATER STORAGE AND DRAINAGE CAPACITY HAS BEEN PROVIDED FOR THIS DEVELOPMENT, SUCH THAT SURFACE WATER FROM THE DEVELOPMENT WILL NOT BE DIVERTED ONTO AND CAUSE DAMAGE TO ADJACENT PROPERTY FOR STORMS UP TO AND INCLUDING THE ONE HUNDRED (100) YEAR EVENT, AND THAT THE DESIGN PLANS ARE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, COUNTY, AND VILLAGE LAWS AND ORDINANCES.

PROFESSIONAL ENGINEER'S CERTIFICATION

STATE OF ILLINOIS)
SS.
COUNTY OF DU PAGE)

I, KEVIN T. SERAFIN , A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS TECHNICAL SUBMISSION WAS PREPARED ON BEHALF OF HAWTHORNE DEVELOPMENT CORPORATION, BY CEMCON, LTD. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 31st DAY OF OCTOBER, A.D., 2025.

KEVIN T. SERAFIN 062-052118 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062–052118
MY LICENSE EXPIRES ON NOVEMBER 30, 2025

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184–002937
EXPIRES APRIL 30, 2027

NOTE : UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE DESIGN PROFESSIONAL ENGINEER, IT IS NOT A VALID TECHNICAL SUBMISSION.

FOR UNDERGROUND UTILITY LOCATIONS, CALL
J.U.L.I.E.
TOLL FREE
TEL. 1-800-892-0123 or 811

DATE: _____

RELEASED FOR PLAN REVIEW AND PERMIT PROCESSING ONLY.

IF USED FOR BIDDING PURPOSES, THOSE PARTIES CONCERNED SHALL BE ADVISED THAT REVISIONS MAY BE REQUIRED PRIOR TO PLAN APPROVAL.

NOT ISSUED FOR CONSTRUCTION UNTIL APPROVED BY THE VILLAGE OF AND PERMITTED AS REQUIRED.

PREPARED FOR:
HAWTHORNE VILLA PARK LP
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235–6647

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60502–9675
Ph: 630.862.2100 Fax: 630.862.2199
E–Mail: cadd@cemcon.com Website: www.cemcon.com

REVISIONS

NO.	DATE	SHEETS	NO.	DATE	SHEETS
1	06–23–21/DDD	1, 3–8 & ER1	7	09–29–25/BCD	5–13, ER1
2	09–02–21/DDD	1–12, ER1	8	10–31–25/BCD	6–11, 13, ADDED 10A
3	09–29–21/BCD	1, 3–12, ADDED 13, ER1			
4	11–16–21/BCD	5–12			
5	01–10–22/BCD	5–11			
6	01–24–22/BCD	7, 10			

JOB NO. 904.351
COMPLETION DATE :
JULY 27, 2020
SHEET 01 OF 13

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GARDEN STATION APARTMENTS – FINAL ENGINEERING – 904.351 – REVISION 8: 10–31–2025/BCD

CONSTRUCTION SPECIFICATIONS – GENERAL NOTES

GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EACH OF THE UTILITY COMPANIES BEFORE ANY WORK IS STARTED. ALL UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION.

3. THE ENGINEER WILL BE GIVEN SEVENTY-TWO (72) HOURS NOTICE FOR ANY STAKING THAT IS TO BE DONE. EACH OF THE VARIOUS ITEMS OF WORK COVERED BY THIS CONTRACT WILL BE STAKED ONCE. ADDITIONAL STAKING REQUIRED DUE TO THE CONTRACTOR NEGLIGENCE SHALL BE PAID FOR BY THE CONTRACTOR AT THE CURRENT HOURLY RATE.

4. THE CONTRACTOR SHALL INFORM THE VILLAGE OF VILLA PARK BEFORE WORK COMMENCES ON EACH CATEGORY OF CONSTRUCTION, I.E. WATERMAIN, SANITARY, STREET AND DRAINAGE IMPROVEMENT. A FORTY EIGHT (48)HOUR NOTICE SHALL BE GIVEN FOR ANY ITEM THAT REQUIRE FINAL TESTING AND INSPECTION SUCH AS WATERMAINS OR SANITARY SEWERS.

5. THE CONTRACTOR RESPONSIBLE FOR WATERMAIN CONSTRUCTION, SANITARY SEWER CONSTRUCTION AND DRAINAGE IMPROVEMENTS (UNDERGROUND WORK) SHALL DISPOSE OF ALL SURPLUS MATERIALS ON THE SITE AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE PAID AND SAID WORK SHALL BE INCIDENTAL TO THE OTHER ITEMS OF CONSTRUCTION.

6. THE OWNER WILL FURNISH THE CONTRACTOR WITH LINES AND GRADES NECESSARY TO THE PROPER EXECUTION AND CONTROL OF THE WORK. THE CONTRACTOR SHALL CALL THE ATTENTION OF THE OWNER'S REPRESENTATIVE TO ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE OWNER, AND SHALL NOT PROCEED WITH THE WORK UNTIL ANY LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER'S REPRESENTATIVE.

7. THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE TO PLACE ON GRADE AND COORDINATE WITH OTHER CONTRACTORS ALL UNDERGROUND STRUCTURE FRAMES SUCH AS CATCH BASINS, INLETS, MANHOLES, HYDRANTS, BUFFALO BOXES, VALVES, ETC. NO ADDITIONAL COMPENSATION WILL BE PAID AND SAID ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF CONSTRUCTION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS (INCLUDING UTILITY LOCATIONS) PRIOR TO THE INSTALLATION OR FABRICATION OF ANY MATERIALS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER

EARTHWORK AND GRADING

1. WORK UNDER THIS SECTION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

   A. CLEARING AND REMOVAL OF ALL UNDESIRABLE TREES AND OTHER VEGETATIVE GROWTH WITHIN THE CONSTRUCTION AREA. TREE REMOVAL SHALL BE DESIGNATED BY THE OWNER AND SHALL BE KEPT TO A MINIMUM.

   B. STRIPPING OF TOPSOIL FROM ALL PROPOSED STREET, DRIVEWAY, PARKING LOT, RIGHT-OF-WAY, BUILDING PAD AND OTHER DESIGNATED STRUCTURAL AREAS.

   C. STOCKPILING OF TOPSOIL AT LOCATIONS AS DIRECTED BY THE OWNER. TOPSOIL STOCKPILED FOR FUTURE USE SHALL BE RELATIVELY FREE FROM LARGE ROOTS, STICKS, WEEDS, BRUSH, STONES LARGER THAN ONE (1) INCH DIAMETER, OR OTHER LITTER AND WASTE PRODUCTS INCLUDING EXTRANEOUS MATERIALS NOT CONDUCIVE TO PLANT GROWTH. TOPSOIL SHALL BE STOCKPILED IN SEQUENCE TO ELIMINATE ANY REHANDLING OR DOUBLE MOVEMENTS BY THE CONTRACTOR. FAILURE TO PROPERLY SEQUENCE THE STOCKPILING OPERATIONS SHALL NOT CONSTITUTE A CLAIM FOR ADDITIONAL COMPENSATION. NO MATERIAL SHALL BE STOCKPILED IN FRONT YARDS, OVERLAND DRAINAGE SWALES (FLOOD ROUTING AREAS), IN PROPOSED UTILITY LOCATIONS, IN UTILITY EASEMENTS OR IN THE RIGHT-OF-WAY.

   D. REMOVAL OF UNSUITABLE MATERIALS AS SPECIFIED FROM PROPOSED ROADWAY, DRIVEWAY/PARKING, BUILDING PAD AND OTHER DESIGNATED AREAS.

   E. CLAY CUT AND CLAY FILL WITH COMPACTION WITHIN PROPOSED ROADWAY, DRIVEWAY/PARKING, BUILDING PAD AND OTHER DESIGNATED AREAS.

   F. EXCAVATION AND GRADING OF THE OPEN SPACE, AND/OR YARD AREAS PER PLAN INCLUDING CONSTRUCTION OF BERMS, ETC.

   G. PLACEMENT AND COMPACTION OF STRUCTURAL MATERIAL TO THE DESIGN SUBGRADE ELEVATIONS AS REQUIRED BY THE STANDARDS AND DETAILS ON THE CONSTRUCTION PLANS. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT AND/OR TOPSOIL REPLACEMENT THICKNESS MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS.

   H. IF REQUIRED, BORROW PIT EXCAVATION OF STRUCTURAL MATERIAL AND REFILL OF PIT WITH NON-STRUCTURAL MATERIAL.

   I. PLACEMENT AND COMPACTION OF NON-STRUCTURAL FILLS.

   J. MOVEMENT AND COMPACTION OF SPOIL MATERIAL FROM THE CONSTRUCTION OF UNDERGROUND UTILITIES.

   K. BACKFILLING OF CURBS AND/OR PAVEMENT AND SIDEWALK AFTER INSTALLATION OF SAME BY THE PAVING CONTRACTOR.

   L. FINAL SHAPING AND TRIMMING TO THE LINES, GRADES, AND CROSS-SECTIONS SHOWN IN THESE PLANS; AND TOPSOIL PLACEMENT TO DESIGN FINISHED GRADE ELEVATIONS.

   M. SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.

2. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES. THE CONTRACTOR SHALL EXAMINE THE DRAINAGE PATTERNS SHOWN ON THE PLANS AND MAKE CERTAIN THAT ALL GUTTER FLAGS AND PAVEMENTS ARE PITCHED PROPERLY TO ACHIEVE THIS DRAINAGE PATTERN.

EARTHWORK AND GRADING (CONT'D.)

3. MATERIALS TESTING, IF REQUIRED BY THE MUNICIPALITY, SHALL BE PROVIDED BY THE CONTRACTOR, THIS ITEM WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE VARIOUS ITEMS OF WORK.

4. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER ACCEPTABLE METHOD. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.

5. IT SHALL BE THE RESPONSIBILITY OF EACH RESPECTIVE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

6. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY THE SOILS ENGINEER OR HIS REPRESENTATIVE. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER. NO UNDERCUT SHALL BE PERFORMED WITHOUT AUTHORIZATION FROM OWNER AND ASSIGNMENT OF AN EWO NUMBER.

7. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. A MINIMUM OF SIX INCHES (6") OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED.

8. THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY SIX INCHES (6"); IF COMPACTION EQUIPMENT DEMONSTRATES THE ABILITY TO COMPACT GREATER THICKNESSES, THEN A GREATER THICKNESS MAY BE SPECIFIED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY.

9. EMBANKMENT MATERIAL WITHIN ROADWAY, DRIVEWAY, PARKING LOT AND OTHER STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF NINETY-THREE PERCENT (93%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD), OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER. EMBANKMENT MATERIAL FOR BUILDING PADS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 (MODIFIED PROCTOR METHOD) OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER.

10. THE SURFACE VEGETATION, TOPSOIL AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHOULD BE STRIPPED FROM ALL AREAS TO RECEIVE STRUCTURAL FILL. IF THE UNDERLYING SUBGRADE SOILS RUT DEEPER THAN ONE INCH UNDER THE CONSTRUCTION EQUIPMENT OR IF THE MOISTURE CONTENT EXCEEDS THAT NEEDED FOR PROPER COMPACTION, THE SOIL SHALL BE SCARIFIED, DRIED AND RECOMPACTED TO THE REQUIRED SPECIFICATIONS (SEE SECTION 301 OF THE IDOT SPECIFICATIONS).

11. COMPLETED GRADING (FINISHED FINE GRADE) FOR PROPOSED PAVEMENT SUBGRADE AREAS, BUILDING PADS, AND YARD/OPEN SPACE AREAS SHALL BE WITHIN A TOLERANCE OF PLUS OR MINUS ONE-TENTH OF A FOOT (0.1') OF DESIGN SUBGRADE ELEVATIONS.

12. THE SUBGRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND ANY UNSTABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AND SOILS ENGINEER. ANY UNDERCUT AND REPLACE NECESSARY WILL BE MEASURED FOR PAYMENT AT THE CONTRACT UNIT PRICE.

KDSWCD NOTES

⚠1. The Kane–DuPage Soil and Water Conservation District (KDSWCD) notes are found below:

   a. Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed according to minimum standards and specifications in the Illinois Urban Manual latest edition.

   b. The Kane–DuPage Soil and Water Conservation District (KDSWCD) must be notified one week prior to the pre–construction conference, one week prior to the commencement of land disturbing activities, and one week prior to the final inspection.

   c. A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.

   d. Prior to commencing land–distrubing activities in areas other than indicated on these plans (including but not limited to, additional phases of development and off–site borrow or waste areas) a supplementary erosion control plan shall be submitted to the owner for review by the KDSWCD.

   e. The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the KDSWCD.

   f. During dewatering operations, water will be filtered or pumped into sediment basins or silt traps. Dewatering directly into filed tiles or stormwater structures is prohibited.

   g. It is the responsibility of the landowner and/or general contractor to inform any sub–contractor(s) who may perform work on this project, of the requirements in implementing and maintaining these erosion control plans and assure compliance with all applicable local, state and federal regulations.

2. Concrete washout should be contained at all times. Washout material should not be allowed to enter water bodies, storm sewers or leach into the soil under any circumstances. Any waste should be disposed of properly and the location of the washout should be designated with proper signage. Failure to comply could result in a violation of the ILR10 permit.

3. Prior to final acceptance by KDSWCD, the site should be properly stabilized. All vegetated areas should have established perennial vegetation with uniform coverage of 70% or greater.

4. Priority shall be given to the completion and stabilization of the detention areas. Work in these areas shall not be prolonged in attempt that all final grading and stabilization can take place at one time.

5. The condition of the construction site for winter shutdown shall be addressed early in the fall growing season so that slopes and other bare earth areas may be stabilized with temporary and/or permanent vegetative cover for proper erosion and sediment control. All open areas that are to remain idle throughout the winter shall receive temporary erosion control measures including temporary seeding, mulching and/or erosion control blanket prior to the end of the fall growing season. The areas to be worked beyond the end of the growing season must incorporate soil stabilization measures that do not rely on vegetative cover such as erosion control blanket and heavy mulching.

TRAFFIC CONTROL AND PROTECTION

1. AT THE PRECONSTRUCTION MEETING THE CONTRACTOR SHALL FURNISH THE NAME OF THE INDIVIDUAL IN HIS DIRECT EMPLOY WHO IS TO BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE TRAFFIC CONTROL FOR THIS PROJECT. IF THE ACTUAL INSTALLATION AND MAINTENANCE ARE TO BE ACCOMPLISHED BY A SUBCONTRACTOR, CONSENT SHALL BE REQUESTED OF THE ENGINEER AT THE TIME OF THE PRECONSTRUCTION MEETING IN ACCORDANCE WITH ARTICLE 108.01 OF THE STANDARD SPECIFICATIONS. THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE FOREGOING REQUIREMENT FOR A RESPONSIBLE INDIVIDUAL IN HIS DIRECT EMPLOY TO SUPERVISE THIS WORK. THE CONTRACTOR WILL PROVIDE THE NAME OF ITS REPRESENTATIVE WHO WILL BE RESPONSIBLE FOR THE ADMINISTRATION OF THE TRAFFIC CONTROL PLAN.

2. THIS ITEM OF WORK SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES USED FOR THE PURPOSE OF REGULATING, WARNING OR DIRECTING TRAFFIC DURING THE CONSTRUCTION OR MAINTENANCE OF THIS IMPROVEMENT.

3. TRAFFIC CONTROL AND PROTECTION SHALL BE PROVIDED AS CALLED FOR IN THE PLANS, THESE SPECIAL PROVISIONS, APPLICABLE HIGHWAY STANDARDS, APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER.

4. THE GOVERNING FACTOR IN THE EXECUTION AND STAGING OF WORK FOR THIS PROJECT IS TO PROVIDE THE MOTORING PUBLIC WITH THE SAFEST POSSIBLE TRAVEL CONDITIONS ALONG THE ROADWAY THROUGH THIS CONSTRUCTION ZONE. THE CONTRACTOR SHALL SO ARRANGE HIS OPERATION AS TO KEEP THE CLOSING OF ANY LANE OF THE ROADWAY TO A MINIMUM.

5. ALL TRAFFIC CONTROL DEVICES USED ON THIS PROJECT SHALL CONFORM TO THE PLANS, SPECIAL PROVISIONS, TRAFFIC CONTROL STANDARDS, "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL DEVICES" AND THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". NO MODIFICATION OF THESE REQUIREMENTS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

6. TRAFFIC CONTROL DEVICES INCLUDE: SIGNS AND THEIR SUPPORTS, SIGNALS, PAVEMENT MARKINGS, BARRICADES WITH SAND BAGS, CHANNELIZING DEVICES, WARNING LIGHTS, ARROWBOARDS, FLAGGERS, OR ANY OTHER DEVICE USED FOR THE PURPOSE OF REGULATING, WARNING, OR GUIDING TRAFFIC THROUGH THE CONSTRUCTION ZONE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION, INSTALLATION, AND ARRANGEMENT OF ALL TRAFFIC CONTROL DEVICES. SPECIAL ATTENTION SHALL BE GIVEN TO ADVANCE WARNING SIGNS DURING CONSTRUCTION OPERATIONS IN ORDER TO KEEP LANE ASSIGNMENT CONSISTENT WITH BARRICADE PLACEMENT AT ALL TIMES. THE CONTRACTOR SHALL COVER ALL TRAFFIC CONTROL DEVICES WHICH ARE INCONSISTENT WITH DETOUR OR LANE ASSIGNMENT PATTERNS DURING THE TRANSITION FROM ONE CONSTRUCTION STAGE TO ANOTHER.

8. CONSTRUCTION SIGNS REFERRING TO DAYTIME LANE CLOSURE DURING WORKING HOURS SHALL BE REMOVED OR COVERED DURING NON-WORKING HOURS.

9. THE CONTRACTOR SHALL COORDINATE ALL TRAFFIC CONTROL WORK ON THIS PROJECT WITH ADJOINING OR OVERLAPPING PROJECTS, INCLUDING BARRICADE PLACEMENT NECESSARY TO PROVIDE A UNIFORM TRAFFIC DETOUR PATTERN. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES WHICH WERE FURNISHED, INSTALLED AND MAINTAINED BY HIM UNDER THIS CONTRACT, AND SUCH DEVICES SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL SPECIFIC AUTHORIZATION FOR RELOCATION OR REMOVAL IS RECEIVED FROM THE ENGINEER.

10. THE CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL DEVICES INSTALLED BY HIM ARE OPERATIONAL 24 HOURS A DAY, INCLUDING SUNDAYS AND HOLIDAYS.

11. WHEN TRAVELING IN LANES OPEN TO PUBLIC TRAFFIC, THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC. THESE VEHICLES SHALL ENTER OR LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO, OR INTERFERE WITH, TRAFFIC AND SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES SHALL NOT PARK WITHIN THE RIGHT- OF-WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE ENGINEER.

12. ANY DROP OFF GREATER THAN THREE INCHES, BUT LESS THAN SIX INCHES WITHIN EIGHT FEET OF THE PAVEMENT EDGE SHALL BE PROTECTED BY TYPE I OR II BARRICADES EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 100 FOOT CENTER TO CENTER SPACING. IF THE DROP OFF WITHIN EIGHT FEET OF THE PAVEMENT EDGE EXCEEDS SIX INCHES, THE BARRICADES MENTIONED ABOVE SHALL BE PLACED AT 50 FOOT CENTER TO CENTER SPACING. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 2299. VERTICAL PANELS OR OTHER DELINEATING DEVICES MAY BE SUBSTITUTED FOR TYPE I OR II BARRICADES WITH THE APPROVAL OF THE ENGINEER.

13. CHECK BARRICADES SHALL BE PLACED IN WORK AREAS PERPENDICULAR TO TRAFFIC EVERY 100 FEET, ONE (1) PER LANE AND SHOULDER, TO PREVENT MOTORISTS FROM USING WORK AREAS AS A TRAVELED WAY. ADDITIONAL CHECK BARRICADES SHALL BE PLACED IN ADVANCE OF ANY HAZARD IN THE WORK AREAS WHICH WOULD ENDANGER A MOTORIST. CHECK BARRICADES SHALL BE TYPE I OR II AND EQUIPPED WITH A FLASHING LIGHT.

14. PLACEMENT OF ALL SIGNS AND BARRICADES SHALL PROCEED IN THE DIRECTION OF FLOW OF TRAFFIC. REMOVAL OF ALL SIGNS AND BARRICADES SHALL START AT THE END OF THE CONSTRUCTION AREAS AND PROCEED TOWARD ONCOMING TRAFFIC UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

15. DELAYS TO THE CONTRACTOR CAUSED BY COMPLYING WITH THESE REQUIREMENTS WILL BE CONSIDERED INCIDENTAL TO THE ITEM FOR TRAFFIC CONTROL AND PROTECTION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

16. THIS ITEM OR WORK WILL BE MEASURED ON A LUMP SUM BASIS FOR FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING THE TRAFFIC CONTROL DEVICES REQUIRED IN THE PLANS AND THESE SPECIAL PROVISIONS. PAYMENT FOR TRAFFIC CONTROL AND PROTECTION SHALL BE CONSIDERED AS INCLUDED INCLUDED IN THE WORK BEING DONE OR AS SPECIFIED IN THE

VILLAGE OF VILLA PARK
STANDARD ENGINEERING NOTES
Revised 05/02/2008

1. The Public Works Department, (630) 834-8505, must be notified twenty-four (24) hours in advance for inspections and shutoffs and forty-eight (48) hours in advance for water taps.

2. One (1) set of approved plans must be on the site at all times.

3. All paving, curb & gutter, driveways, and sidewalks, including earthwork required for preparation of sub-grade, will be constructed in accordance with the Illinois Department of Transportation's (IDOT) "Standard Specifications for Road and Bridge Construction," current edition and supplements, except as modified to conform with Village of Villa Park requirements.

4. Trenches under and within three feet (3') of pavement (streets, driveways, curb & gutter, and sidewalks) will be backfilled with granular trench backfill conforming to a gradation of CA-6/Grade 8. Granular trench backfill will be mechanically compacted in layers of 12" maximum, loose measure, to 95% of standard density (ASTM D698).

5. All existing pavement to be removed will be saw cut full depth along the limits of the removal.

6. Replacement of the street pavement subsequent to the installation of utilities will meet IDOT Standard Specifications for Road and Bridge Construction, Article 442.06, and be made as follows:

   a. Asphalt - 2" Hot-Mix Asphalt Surface Course, Mix "D", N50, over a 4" Hot-Mix Asphalt Binder Course, N50, or to Village Engineer's specifications.

   b. P.C.C. - 8" minimum thickness, tie into the existing pavement with #6 x 24" dowels, embedded 8" and staggered at 24" O.C.

7. All pavements will be replaced within one week of their removal.

8. All sidewalks will meet existing widths with a minimum thickness of four inches (4") except at any existing or proposed driveway(s) the thickness will be six inches (6"). Bedding will be a minimum of 4" of CA-6/Grade 8. All existing sidewalks and curb and gutter sections must be replaced unless waived by the Village Engineer.

9. All driveways will be replaced as follows:

Residential	Hot-Mix Asphalt	4"	Surface Course
		6"	CA-6, Grade 8 Stone
	Portland Cement Concrete	6"	Class SI
		4"	CA-6, Grade 8 Stone
Commercial	Hot-Mix Asphalt	6"	Surface Course
		8"	CA-6, Grade 8 Stone
	Portland Cement Concrete	8"	Class SI
		6"	CA-6, Grade 8 Stone

All manholes and buffalo boxes within a PCC driveway must be boxed out with 1" expansion material.

10. All parkways disturbed during construction will be restored with four inches (4") of topsoil and salt-tolerant sod.

11. All parkway and nearby trees on adjoining property will have guards to protect trees. A minimum of four (4) stakes shall be used and the fence shall be four (4) feet from the trunk of the tree.

12. All stumps must be removed to a minimum of one foot below proposed ground elevation.

13. Materials and installation for all water and sewer related work will be in accordance with the "Standard Specifications for Water and Sewer Main Construction in Illinois," current edition and the American Water Works Association except as modified to conform with Villa Park requirements.

14. All water main shutdowns will be performed by Village personnel only. A minimum of twenty-four (24) hours notice will be given to the Public Works Department prior to requested shutdown.

15. Existing water and sanitary sewer services will not be reused without a written approval from the Water/Wastewater Superintendent.

16. Band-seal flexible connectors (non-shear mission couplings) will be used to join pipes of dissimilar materials.

17. All PVC pipe joints will conform to ASTM D 3212 and shall be sealed by rubber gaskets conforming to ASTM F 477.

18. Down spouts and sump pumps will discharge at grade and be directed away from and at least ten feet (10') from adjacent properties.

19. Provide for the immediate removal of any mud and debris that is deposited onto the streets and sidewalks, which were caused by the construction.

20. Any soil erosion control measures that are deemed necessary by the Village Engineer will be implemented immediately by the contractor.

21. All footing and top of foundation elevations, and building setbacks and dimensions must be surveyed and a spot survey must be submitted and approved prior to any future construction.

22. All concrete curbs, sidewalk and driveway aprons require pre-inspection.

23. All construction sites will require a stone access road 10 feet wide with a 6" depth comprising of CA-1 stone.

24. Any activity that disturbs the pavement, vegetation or soil requires a DuPage County Stormwater Permit.

25. An RPZ valve is required for development other than single family residential, unless a written waiver is obtained from the Public Works Department.

26. Residential dual check valve backflow preventor (series 7) is required if a private well is located on the premises and is not capped be a certified well contractor.

27. All existing grades along property lines must be maintained.

28. Proposed grade changes will not cause surface water runoff to be diverted onto or detained on abutting or nearby property, will not significantly alter existing drainage patterns and will not increase or concentrate storm water runoff onto abutting or nearby property.

29. Downspout drainage must discharge at grade and must not drain onto or toward adjacent properties. Indicate on the plans the proposed downspout locations and their direction of drainage.

30. Drainage swales must have sufficient depth and width to direct storm water runoff toward a storm drainage system. Swales must meet existing grades at the property lines and have a minimum slope of 1%. Damming or displacing water onto adjacent properties is not permitted.

31. Proposed driveway must meet existing grades along the property line and then slope 1/8" to ¼" per foot away from the property line and toward the center of the driveway in order to keep water runoff on site and prevent runoff towards adjacent properties. Include details on the driveway and the property line (spot elevations at property line, centerline and at garage slab). If installing curb along the driveway make sure it will not dam water on adjacent properties. Show top of curb elevations and grades on adjoining property.

32. Landscaping that effectively changes yard elevations or existing drainage patterns will not be permitted unless a fill permit is issued by the Village.

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WATER DISTRIBUTION

A. REFERENCE STANDARD:

1. American Water Works Association (AWWA), latest edition
2. American Society for Testing and Materials (ASTM), latest edition
3. Illinois State Plumbing Code, latest edition
4. Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition.
5. Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition

B. DUCTILE IRON PIPE

1. Conform to AWWA C151
2. Minimum Thickness:
   a. Class 52 standard thicknesses for mechanical and push-on joint piping.
3. **Push-On Joints:**
   a. Provide in accordance with AWWA C111, except gaskets will be neoprene or other synthetic rubber. Natural rubber not acceptable.
4. **Fittings:**
   a. Provide fittings required to provide complete and operational system
   b. Provide mechanical joint fittings with mega-lug retainers
   c. Fittings may be ductile or cast iron in accordance with AWWA C110 and AWWA C153
   d. Fitting Pressure Rating: 250 psi
   e. Retainer glands for mechanical joint fittings (mega lugs):
      1. Ductile iron.
      2. F1058 by Clow, Inc.
      3. Or equal in strength and restraining ability
      4. All below grade fasteners to be stainless steel and conform to the following standards: bolts and threaded rods – grade #304; nuts and washers – grade #300.
   f. Couplings for connecting new water mains to existing water mains:
      1. Ductile iron or cast iron
      2. F1208 by Clow, Inc.
      3. Or equal in strength and sealing ability
      4. Some existing water mains may have nonstandard external diameters, measure existing mains prior to ordering couplings
      5. All below grade fasteners to be stainless steel and conform to the following standards: bolts and threaded rods – grade #304; nuts and washers – grade #300.
   g. Tie rods and bands for restraining couplings:
      1. Steel or malleable iron
      2. Corrosion resistant alloy or coated to resist corrosion
   3. Rod diameter: 3/4-inch minimum
   4. Sufficient in strength and restraining ability to resist working pressures, test pressures, and surge pressures in water mains.
   h. Cut-In Sleeves
      1. Mueller H-841
      2. Or equal in strength and sealing ability
   i. Tapping Sleeve
      1. Mueller H-615
      2. Or equal in strength and sealing ability
   j. Anchoring Tee
      1. Clow F-1217
      2. Or equal in strength and sealing ability

C. COPPER SERVICE PIPE

1. Conform to ASTM B88
2. Water service piping is to be 1" (min.) type "K" copper with no unions or couplings allowed unless length is in excess of 100 feet. Services are to be augured and pushed unless otherwise specified by ENGINEER.
3. Fittings:
   a. Copper
   b. Compression Type:
      1. Mueller 110
      2. Or equal

D. SERVICE CONNECTIONS

1. Corporation stops are to be Mueller H-15000 and may be installed either "wet" or "dry"
2. Curb stops are to be Mueller H-15154 Minneapolis pattern
3. Curb boxes are to be Mueller H-10302 Minneapolis pattern

E. WEDGE VALVES, 4" through 24"

1. Wedges will be in accordance with all applicable provisions of Section 42 of the "Standard Specifications for Water and Sewer Main Construction in Illinois, latest Edition," with the following exceptions:
   a. To be WATEROUS resilient seat wedge valve Model 2500.
2. Vaults and boxes- All new Valves must be installed within a Valve Vault. Valve Boxes require written approval from the Water Superintendent.

F. TAPPING VALVE

WATEROUS model 2500.

G. FIRE HYDRANTS

1. Waterous 5-1/4" Pacer Model Number WB-67-250 6 foot bury with auxiliary resilient seat wedge valve and valve box.

H. THRUST BLOCKS

1. Class si concrete in accordance with IDOT Standard Specifications for Road and Bridge Construction, Section 1020.

I. CROSS CONNECTION CONTROL

1. RPZ- required for development other than single family residential, unless a written waiver is obtained from the Public Works Department.
2. Residential dual check valve number 7 is required if a private well is located on the premises and is not capped be a certified well contractor.

J. WATER METERS

New Meters 5/8" x 3/4", 1" and 2" sizes, meter size to be one size less than diameter of service.
Rockwell/Sensus Model SR II/SR or approved equal.

K. ABANDONMENT OF OLD WATER SERVICES

Removal and disposal of old services including the Buffalo Box is required. Corporation stop has to be shut off at the main and service line removed. If corporation stop leaks, remove from main and use Smith Blair 261 Sleeves to abandon the existing service.

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1. **WATER MAIN TESTING**

   1. **PRESSURE TEST**

   a. Test pressures will be as follows:

      1. Water Main Test Pressure: 150 psi at lowest elevation in test section for 2 hours.

   b. Test Procedure:

      1. Add water to expel air.
      2. Pressurizing equipment will include a regulator set to avoid over pressurizing and damaging otherwise acceptable line.
      3. Make test connection, subject main to normal water pressure, and examine for leaks.
      4. Apply test pressure by means of a force pump of such design and capacity that required pressure can be applied and maintained, without interruption for duration of the test.
      5. Measure test pressure by means of tested and properly calibrated pressure gauge.
      6. Maintain initial test pressure for sufficient length of time to permit inspecting piping under test, but not less than 30 minutes.
      7. In case repairs are required, repeat pressure test until pipe installation conforms to specified requirements.
      8. Perform final test at required test pressure for two hours.

   c. Water main considered to have failed pressure test if applied pressure drops five psi or more.

   2. **LEAKAGE TEST**

   a. Conduct pressure test and initial leakage test concurrently. Final leakage test may be waived by OWNER if found unnecessary to add water during duration of final pressure test.

   b. Leakage defined as quantity of water to supplied into newly laid pipe, or any section thereof, necessary to maintain specified leakage test pressure after main filled with water and entrapped air expelled.

      1. Leakage shall not exceed number of gal/hr. as determined by following formula for rubber sealed joints:

         $$Gph = \frac{ND\sqrt{P}}{7400}$$

         Where:

         Gph = gal/hr.
         N = Number of joints under test
         D = Nominal diameter of main in inches
         P = Average pressure in psi gauge during leakage test

      2. In case section under test contains joints of various diameters, allowable leakages will be sums of computed leakage for each size of joint.

   c. Test Procedure:

      1. Submit test section to approximately 1000 psi gauge pressure at highest elevation of water main under test.
      2. Conduct final leakage test for one hour.
      3. Repair defects and retest until acceptable test results obtained.

   3. **DISINFECTING**

   a. Disinfect in accordance with AWWA C601, Illinois State Plumbing Code, and local municipality code, or IDOTSPECS Article 561.04 and 561.05.

SEWERAGE AND DRAINAGE

A. REFERENCE STANDARDS:

1. American Society for Testing and Materials (ASTM), latest edition
2. American Water Works Association (AWWA), latest edition
3. Illinois State Plumbing code, latest edition.
4. Illinois Department of Transportation Standard Specification for Road and Bridge Construction, latest edition. (IDOT)
5. Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.

B. MATERIALS (SANITARY MAINS, AND BUILDING SEWERS)

1. PVC Sewer Pipe and Fittings:
   a. 4 to 15 in. Dia.: ASTM D-2241, D-2672, D-2729, D-3033, or D-3034 SDR 26; PVC Type 1, Grade 1
   b. 18 to 27 in. Dia.: ASTM F679; PS46; PVC Type 1, Grade 1
   c. Fittings:
      1. The connection of the building sewer service into the public sewer main shall be made at a TEE/WYE fitting (installed with a construction of new mains), if such a branch is available at a suitable location. If there is no properly located TEE/WYE fitting at a main, a neat machined hole may be cut into

CONSTRUCTION SPECIFICATIONS – GENERAL NOTES (CONTINUED)

(CONTINUED FROM SHEET 02)

h. Pipe Section Length:
1. 12 ft. minimum.
2. Use full sections to maximum practical extent.
3. No section shall be shorter than 3 ft. in length.

i. Flexible Boots:
1. Conform to ASTM C923.
2. Kor-N-Tee
3. PSX by Press Seal, Inc.
4. Or equal

C: REINFORCED CONCRETE PIPE (RCP) (STORM SEWER ONLY):

1. ASTM C76 with bell and spigot joints to strength class specified in Table following Article 550.03 of IDOT Standard Specifications for Road and Bridge Construction, except that pipes which will have less than four feet of cover shall be Class IV. The manufacturer shall mark exterior of each pipe section with pipe class.

2. Joints: Rubber gaskets conforming to ASTM C361.

3. Tapping Saddles: Equivalent to Sealtite sewer tapping saddle system or TAPRITE "MD" Cut-ins by General Engineering Company.

4. Fittings:
a. Conform to strength, water tightness, joint type, and other requirements of main line pipe to which joined.
b. Securely attach fabricated branches for wyes and tees to wall of pipe in watertight manner and flush with inside surface of pipe.
c. Tee Branches: Axis perpendicular to longitudinal axis of pipe.
d. Wye branches: Axis approximately 60 degrees or 45 degrees from longitudinal axis of pipe, measured from bell end.
e. Do not interrupt pipe reinforcement beyond radial distance of 3 in. outside fitting.
5. Lift holes not permitted.
6. Pipe Section Length:
a. 7 ft. minimum.
b. Use full sections to maximum practical extent.
c. No section shall be shorter than 3 ft. in length.

D. DUCTILE IRON PIPE (DIP) (SANITARY, STORM AND COMBINED):

1. Material:
a. Conform to AWWA C151 or equal.

2. Thickness:
a. Conform to AWWA C150, Class 52 minimum.

3. Joint:
a. Conform to AWWA C111.
b. Push on type.
c. Neoprene or other synthetic rubber gaskets resistant to sanitary sewage. Natural rubber gaskets not permitted.

4. Pipe Lining:
a. Conform to AWWA C104.

5. Coating:
a. Cement lining conforming to AWWA C104.
b. Bituminous conforming to AWWA C151.

6. Pipe Section Length:
a. 18 ft. nominal.
b. Use full sections to maximum practical extent.

7. Fittings:
a. Conform to AWWA C110.
b. Push-on joints conforming to AWWA C111.
c. Fitting pressure rating: 250 psi.
d. Cement lining conforming to AWWA C104.
e. Bituminous coat conforming to AWWA C151 on interior and exterior.

E. FLEXIBLE CONNECTORS:

1. Materials:
a. Synthetic rubber base compound formulated to resist acids, alkalies, solvents, and greases encountered in sanitary or storm sewers and contain no reclaimed rubber (non-shear mission coupling).
b. Test in accordance with ASTM D543 and not lose weight in 1.0 normal sulfuric acid, 1.0 normal hydrochloric acid or 1.0 normal nitric acid.
c. Show no etching, blistering, distortion or other evidence of chemical or bacterial attack and shall show no cracking on rapid cooling.
d. Under ASTM D412, ultimate tensile strength shall exceed 7u50 psi at 80 degrees F and elongation shall exceed 150%.
e. Under ASTM D570, water absorption shall not exceed 4%.
f. Under ASTM D2240 Type A hardness shall exceed 55 in 5 sec reading.

2. Material used in fabricating compression bands shall be Type 316 stainless steel and bolts and nuts shall be Type 305 stainless steel in accordance with ASTM A167.

3. Completed Joint: conform to material and performance standards of ASTM C425 for resilient sewer pipe joints.

4. Acceptable Manufacturers:
a. Clow
b. FERNCO, Inc.
c. Or equal

F: TESTING:

1. Pressure testing.

A. All sanitary sewers including service lines shall be tested for; low pressure air test, exfilteration test, television testing and deflection test per standard specifications and the Village code of the Village of Villa Park and shall be approved by the Village before acceptance.

B. All sanitary sewers shall be televised before acceptance. All costs shall be incidental to the work. Testing shall be witnessed and approved by the Village of Villa Park before final acceptance. The location of television inspection shall be as designated by the Village Engineer.

C. If the sanitary sewer installation fails to meet the test requirements specified, the contractor shall determine the cause or causes of the defect and shall, at his own expense, repair or replace all materials and workmanship as may be necessary to comply with the test requirements.

C. Contractor shall submit certified copies of all reports of tests conducted by an independent laboratory before installation of PVC plastic pipe. Tests shall be conducted in accordance with standard method of test for "external loading properties of plastic pipe by parallel plate loading, ® ASTM standard D2412. Tests shall also be conducted in accordance with ASTM D3212 to demonstrate joint performance at 5% maximum diametric deflection of the spigot, as specified in ASTM D3212 specifications work.

2

MANHOLES AND INLETS

A. **REFERENCE STANDARDS:**

1. American Society for Testing and Materials (ASTM), latest edition.

2. Standard Specifications for Road and Bridge Construction by Illinois Department of Transportation, latest edition (IDOT SPECS).

3. Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.

B. **MATERIALS:**

1. MANHOLES AND INLETS

a. Pre-cast concrete conforming to ASTM C478.

1. Sections and component parts to be marked by manufacturer with trade name and/or trademark and ASTM designation.

b. Provide pre-cast concrete cone or flat tops as indicated on drawings.

c. Elevations on drawings designate sewer elevations at center of structure. Adjust elevations of openings for incoming and outgoing pipes in accordance with sewer grades shown on drawings.

1. Holes shall be smooth, radial to centerline of manhole, and perpendicular to manhole wall.
2. Holes for Sanitary and Storm Pipes: circular.
3. Holes shall be cast in initial pouring of section or shall be cored in after concrete cured. Broken out holes or holes cut into green concrete are not permitted.

d. Sanitary/Combined Manholes:

1. Integral Base: 6 inches nominal thickness.
2. Pipe Connection: Flexible synthetic rubber boot meeting ASTM C923.
a. Cast-in or pressed-on types permitted.
b. Cast-in type boot shall be installed in initial pouring of manhole section.
3. Provide channels in invert to direct flows from incoming to outgoing pipe.
4. Section Joints:
a. ASTM C361 with synthetic rubber O-ring.
b. Tongue and groove.
c. ASTM C-877, Type II, External Joint Seals.
5. Eccentric manhole opening.
6. Optional precast concrete flat slab top refer to IDOT Standard 2354-2

e. Storm Manholes:

1. Integral Base: 6 inches nominal thickness.
2. Pipe Connection: Circular hole 1-1/2 inches to 3 inches larger than actual outside diameter of sewer pipe being connected.
3. Provide invert channels in storm manholes as specified in Paragraph 2.01.D.3.
4. Section Joints: Tongue and groove.
5. Eccentric manhole opening.
6. Optional precast concrete flat slab top refer to IDOT Standard 2354.

f. Inlets.

1. Type "A".

a. Integral Base: 4-inch nominal thickness.
b. Pipe Connection: circular hole 1-1/2 inches to 3 inches larger than actual outside diameter of sewer pipe.

2. Type "B".

a. Integral Base: 6-inch nominal thickness.
b. Pipe Connection: Circular hole 1-1/2 inches to 3 inches larger than actual outside diameter of sewer pipe.
c. Provide invert channels as specified in Paragraph 2.01.D.3.
d. Section Joints: tongue and groove.
e. Eccentric opening on cone.
f. Optional pre-cast concrete flat slab top refer to IDOT Standard 2354-2.

3. Type "C".

a. Integral Base: 6-inch nominal thickness.
b. Pipe Connection: Circular hole 1-1/2 inches to 3 inches larger than actual outside diameter of sewer pipe.
c. Provide invert channels as specified in Paragraph 2.01.D.3.
d. Section Joints: tongue and groove.
e. Eccentric opening on cone.
f. Optional precast concrete flat slab top refer to IDOT Standard 2354-2.

g. Wall Thickness:

1. For 2 ft.-0 in. Nominal ID: 3-in. minimum wall.
2. For 3 ft.-0 in. Nominal ID: 4-in. minimum wall.
3. For 4 ft.-0 in. Nominal ID: 5-in. minimum wall.
4. For 5 ft.-0 in. Nominal ID: 6-in. minimum wall.

2 ADJUSTING RINGS

a. Pre-cast concrete with steel reinforcement sufficient to prevent cracking in normal handling and use.
b. Mating Faces:

1. Smooth.
2. Parallel.
3. Free from cracks, chips, spall or casting irregularities interfering with watertight mating to structure top or casting.
4. Provide grooves in faces to contain extrudable preformed plastic gasket material when possible.

c. Thickness Range:
1. 2 inch nominal minimum.
2. 12 inch nominal maximum.

3 GASKET MATERIALS

a. Flexible Boots:
1. Conform to ASTM C923.
2. Synthetic rubber resistant to sanitary sewage.
3. Cast-in or pressed-on types acceptable.

b. O-Ring Gaskets:
1. Conform to ASTM C361.
2. Synthetic rubber resistant to sanitary sewage.

c. Extrudable Preformed Plastic Gasket:
1. Butyl rubber.
2. EZ Stick by Press Seal Gasket Company, or equal.

2

d. Internal Manhole Chimney Seal
1. Conform to ASTM C-923
2. Cretex or approved equal.
3. The seal shall remain flexible throughout a 25-year design life, allowing repeated vertical movement of the frame of not less than 2 inches and repeated horizontal movement of the frame of not less than 2 inch. The sleeve portion of the seal shall be corrugated with a minimum unexpended vertical height of either 6 or 9 inches and shall be capable of being mechanically locked to the frame base flange.
The sleeve and extension shall have a minimum thickness of 3/16 inches and shall be made from a high quality rubber compound conforming to the applicable requirements of ASTM C-923, with a minimum 1500 psi tensile strength, a maximum 18% compression set, and a hardness (durometer) of 48+- 5. The bands shall be fabricated from 16-gauge stainless steel conforming to ASTM A-240, Type 304, with no welded attachments and shall have a minimum adjustment range of 2 diameter inches. Any screws, bolts, or nuts used to lock the band in place shall be stainless steel conforming to ASTM F-593 and 594, Type 304

e. External Joint Sealing Bands
1. Conform to ASTM C-877
2. Type II MacWrap or approved equal.
3. External joint seals shall consist of a collar 9 inches wide with an outer layer of polyethylene, with a minimum tensile strength of 4000 psi and a minimum tear resistance of 1500 psi, and an under layer of rubberized mastic that is reinforced with the collar 3/4 inches from the edge. The straps shall be confined in tubes that isolate them from the mastic and allow them to slip freely when mechanically tightened and locked around the manhole. The collar shall be furnished with a minimum 6 inches overlap and a closing flap to cover any remaining exposed strap.

d. Materials to be new and provided in unopened containers where applicable.

4 CASTINGS

a. Conform to ASTM A48, Class 30.
b. Free from cracks, holes, swells, and cold shuts and patches.
c. Do not coat or paint.
d. Provide structural capacity, hydraulic capacity, water tightness, interior clearance dimensions, approximate vertical height, and range of adjustment equal to:

1. Combined, Sanitary and Water Manhole Frame and Water Resistant Cover:
a. Neenah R-1713 heavy duty frame and self-sealing solid lid.
b. East Jordan Iron Works (EJIW) 1050 frame, watertite assembly, and 1020 Type A solid cover
b. Or approved equal.

2. Storm Manhole Frame and Solid Cover:
a. Neenah R-1713 heavy duty frame and self-sealing solid lid.
b. East Jordan Iron Works (EJIW) 1050 frame, watertite assembly, and 1020 Type A solid cover
b. Or approved equal.

3. Curb Inlet with Bicycle Resistant Grate:
a. Neenah R-3278-AL (W/B-6.12 curb and gutter).
b. Neenah R-3278-AL (W/M-4.12 curb and gutter).
c. Neenah R-3205 (at depressed curb).
d. Or approved equal.

4. Label lids "Sanitary", "Water", or "Storm" as applicable.

5 CAST-IN PLACE CONCRETE

a. Class SI concrete in accordance with Section 637 of IDOT SPECS.
b. Use for field poured manhole bases, inverts, and plugs for existing inlet leads being abandoned.
c. Cement shall be ASTM C150, Type 1 - resistant to attack by sanitary sewage.
d. Reinforcement Bars: IDOTSPECS Section 508.

6 NON-SHRINK GROUT

a. Use for grouting concrete masonry units.
b. Five Star Grout, U.S. Grout Corporation or equal.

C. EXECUTION

1 SANITARY AND COMBINED MANHOLES

a. Place where shown on drawings and in accordance with details.
b. Excavate in accordance with Section 02220.
c. Connect pipes using flexible boots in accordance with boot manufacturers instructions.
1. Center pipe in boot.
2. Take special care to ensure connections are watertight.
d. Place O-ring gasket or double row of extrudable perform plastic gasket between manhole sections
e. Place appropriate top section, cone (depth > 6 feet) or flattop, (depth < 6 feet).
f. Place external Sealing Bands as shown on the detail at each joint between manhole sections in accordance with the manufacturer=s instructions.
g. **Grout all lift holes from the inside and outside with a non-shrink grout, prior to backfilling.**
h. Place two adjusting rings maximum on manhole top. Thickness of adjusting rings shall be 2 inches to 12 inches as necessary to bring completed manhole to elevation shown on drawings. Maximum height of adjustment shall be 12 inches.
1. Place extrudable preformed plastic gasket material between adjusting ring and manhole top, and between adjusting ring and manhole frame.
2. Avoid use of overly thick gasket material such as will likely produce after-settlement of manhole frame due to long-term cold flow of gasket materials.
3. For not grooved adjusting ring, provide two rows of ? inch by ? inch or 3/4 inch by 3/4-inch gasket material.
4. For grooved adjusting rings, provide size gasket material recommended by ring manufacturer. Single or multiple grooved rings permitted. Where multiple grooved rings used, place gasket material in each groove.

i. **Install manhole frame and cover and External Manhole Chimney Seal as shown on the detail, with extensions where needed to cover the entire chimney area, in accordance with the manufacturer's instructions.**
j. Backfill in accordance with Section 02220.
k. Pour manhole invert.
1. Provide poured-in-place channels (if manholes not furnished with pre-cast inverts) to direct flows from incoming pipes to outgoing pipes. Channels shall smoothly blend flows.
2. Make channel horseshoe shaped. Width and depth equal to the size of the outlet sewer.
3. To maintain flexibility of pipe connection boot, plug annular space between pipe and boot that falls in area where invert to be poured with extrudable preformed plastic gasket material. Plug shall prevent concrete from entering space between pipe and boot.
4. Invert channels may be placed any time after manhole base section (and connecting pipe) is back filled.

2 STORM MANHOLE AND INLETS

a. Construct in accordance with combined manholes except as follows:
1. Pipe connection:
a. Center pipe in hole through base section and pack annular space with extrudable preformed plastic gasket material. Seal connection on interior and exterior with non-shrink grout.
b. Take care that annular space is uniform around pipe and gasket material evenly distributed.
c. Ensure connection is watertight.

2. Joint between pre-cast concrete sections:
a. Provide one or two rows extrudable preformed plastic gasket material between sections as necessary for watertight joint.

3. Abandoning existing catch basins:
a. Where drawings so indicate, remove existing catch basins for installation of new inlets and inlet leads. This removal shall be incidental to the cost of the installation of the new inlet.
b. Plug existing catch basin leads with Class SI concrete, in accordance with IDOTSPECS, at end of lead as exposed for removal of existing inlet and at connection of existing lead to combined sewer manhole. A minimum depth of plug shall be equal to inside diameter of existing lead.
c. Where drawings so indicate and as directed by ENGINEER, abandon existing catch basins that will not be replaced by new inlets. These catch basins shall be abandoned as follows:

1. Plug existing catch basin leads as outlined in Paragraph 3.02.A.3.b.
2. Remove existing castings and inform OWNER so that it can be removed from the job site.
3. Remove existing structure to a point at least 3 inches under the proposed sub-grade.
4. Fill catch basin with CA-6/Grade 8 material and compact in accordance with Section 02220.

4. Installing new inlets:

a. Locate approximately where shown on drawing. Exact location will be selected in field by ENGINEER.
b. ENGINEER will determine grades of new inlets.

3 CASTINGS

a. All castings shall remain the property of OWNER following their removal. Removed castings shall be stockpiled at one location onsite by the CONTRACTOR. The OWNER shall remove the castings they wish to keep; the remaining castings shall be the property of the CONTRACTOR and shall be responsible to

4 FIELD QUALITY CONTROL

a. Pre-cast reinforced concrete bases, risers, tops, adjusting rings, and iron castings shall be subject to rejection on account of failure to conform to any specification requirements.

b. Individual sections of bases, risers, and tops may be rejected because of:

1. Fractures or cracks passing through bell, except for single end crack not exceeding joint depth.
2. Excessive patching.
3. Grouted pipe openings.
4. Defects indicating imperfect proportioning, mixing, and molding.
5. Surface defects indicating honeycombed or open texture.
6. Damaged ends, where such damage would prevent making satisfactory joint.
7. Continuous crack having surface width of 0.01 inches or more and extending for length of 12 inches or more, regardless of position.

c. Installation may be rejected because of:

1. Use of individual components subject to rejection.
2. Failure to conform to installation requirements.
3. Visible infiltration.
4. Variation from true vertical alignment by more than 2% of depth.
5. Variations in pipe and rim elevations greater than 0.5 inches from elevations shown on plans.

THE VILLAGE OF VILL PARK'S STANDARD ENGINEERING NOTES AND DETAILS SHALL GOVERN AND TAKE PRECEDENCE OVER ANY CONFLICTING INFORMATION CONTAINED IN THESE PLANS.

ALL DRAIN TILE AND STORM SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RESTORED TO THIER ORIGINAL CONDITION OR CONNECTED TO THE PROPOSED STORM SEWER SYSTEM.

2

⚠ PROTECTION OF WATERMAIN AND WATER SERVICE

WATERMAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER SERVICE CONNECTIONS AND DRAINS AS FOLLOWS:

1. WATERMAINS:

A. HORIZONTAL SEPARATION:

a. WATERMAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.

b. WATERMAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:

LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET; AND

THE WATERMAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND

THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.

c. BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE (STORM SEWER ONLY), OR PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH ELASTOMETRIC JOINTS MEETING ASTM D-3139, WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

B. VERTICAL SEPARATION:

a. A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

b. THE DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, (STORM SEWER ONLY), OR PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241, OR THE DRAIN OR SEWER SHALL BE SLEEVED WITH STEEL PIPE OR CONSTRUCTED OF REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76 WITH GASKETED JOINTS CONFORMING TO ASTM C-443 (STORM SEWERS ONLY), FOR THE ENTIRE LENGTH OF STORM SEWER BETWEEN STRUCTURES WHEN STORM SEWER IS PERPENDICULAR TO WATERMAIN

IF IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (A) ABOVE; OR

THE WATERMAIN PASSES UNDER A SEWER OR DRAIN.

c. A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATERMAIN.

d. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.

e. EXCEPT IN THE CASE OF DIRECT CONFLICT DO NOT LOWER WATERMAIN TO CLEAR OBSTRUCTIONS.

f. WHEN WATERMAIN CROSSES UNDER ANY SEWER FOLLOW THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" MAY 2014, SEVENTH EDITION (SEE PAGE 198, DRAWING NUMBER 23). – SHOWN ON SHEET 23.

2. WATER SERVICE LINES:

A. THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER SERVICE LINES AND ALL STORM SEWERS, SANITARY SEWER, COMBINED SEWERS OR ANY DRAIN OR SEWER SERVICE CONNECTION SHALL BE THE SAME AS WATER MAIN SEPARATION DESCRIBED IN (A&B) ABOVE.

B. WATER PIPE DESCRIBED IN (a) ABOVE SHALL BE USED FOR SEWER SERVICE LINES WHEN MINIMUM HORIZONTAL AND VERTICAL SEPARATION CANNOT BE MAINTAINED.

3. SPECIAL CONDITIONS – ALTERNATE SOLUTIONS SHALL BE PRESENTED TO THE AGENCY WHEN EXTREME TOPOGRAPHICAL, GEOLOGICAL OR EXISTING STRUCTURAL CONDITIONS MAKE STRICT COMPLIANCE WITH (A) AND (B) ABOVE TECHNICALLY AND ECONOMICALLY IMPRACTICAL. ALTERNATE SOLUTIONS WILL BE APPROVED PROVIDED WATERTIGHT CONSTRUCTION STRUCTURALLY EQUIVALENT TO APPROVED WATERMAIN MATERIAL IS PROPOSED.

4. WATERMAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS AND SEEPAGE BEDS BY A MINIMUM OF 25 FEET.

5. WATERMAINS AND WATER SERVICE LINES SHALL BE PROTECTED AGAINST ENTRANCE OF HYDROCARBONS THROUGH DIFFUSION THROUGH ANY MATERIAL USED IN CONSTRUCTION OF THE LINE.

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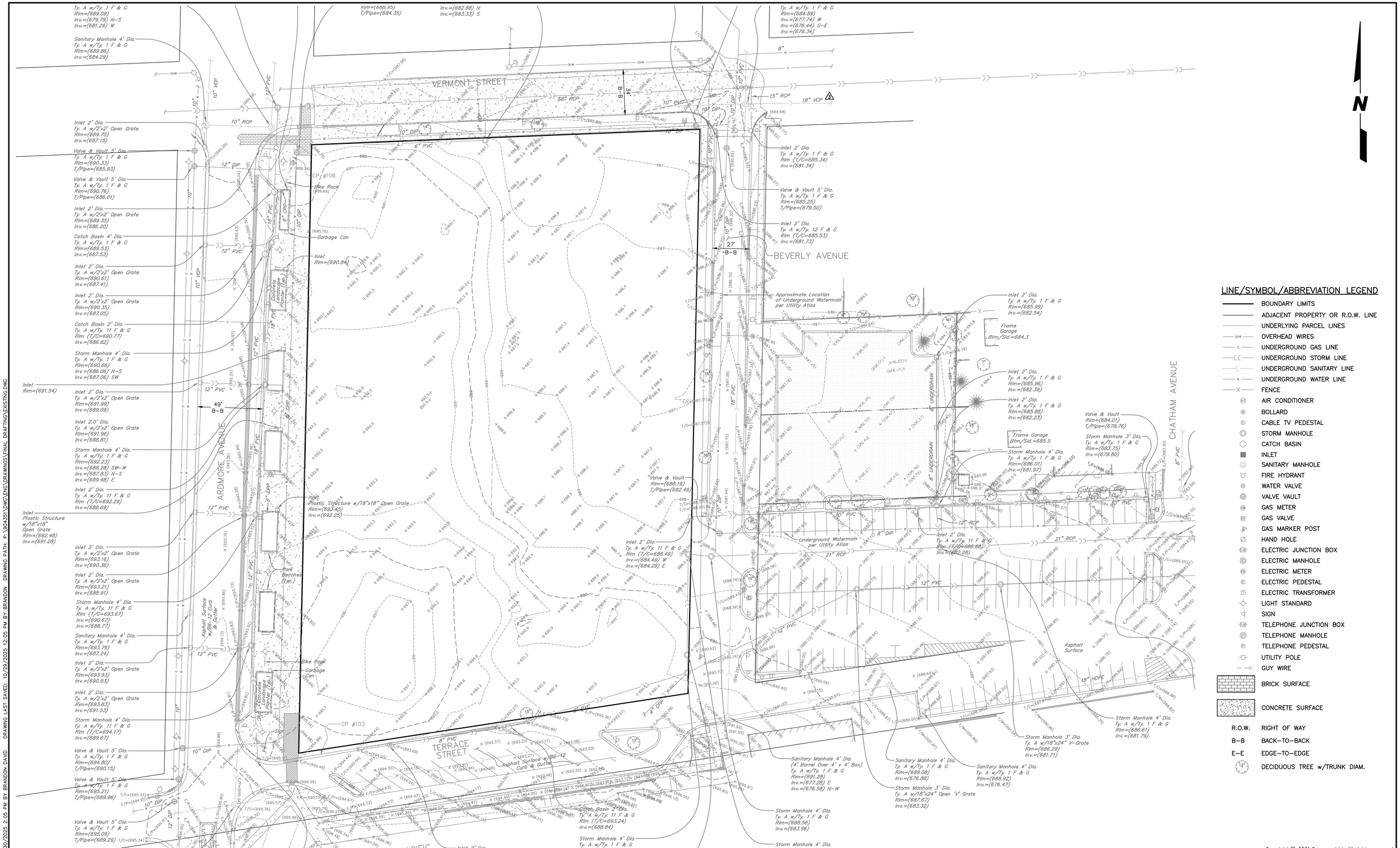
REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
2	09-02-21/DDD	REVISED PER VILLAGE REVIEW DATED 07-23-21			
1	09-29-21/BCD	REVISED PER IEPA REVIEW			

CONSTRUCTION SPECIFICATIONS – GENERAL NOTES
GARDEN STATION APARTMENTS

FILE NAME: GENNOTES	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO. 03 of 13
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = N.T.S.	

PLOT FILE CREATED: 10/30/2025 2:05 PM BY BRANDON DAVID DRAWING LAST SAVED: 9/29/2025 11:09 AM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\FINAL DRAFTING\GENNOTES.DWG



LINE/SYMBOL/ABBREVIATION LEGEND

- BOUNDARY LIMITS
- ADJACENT PROPERTY OR R.O.W. LINE
- UNDERLYING PARCEL LINES
- OHW — OVERHEAD WIRES
- G — UNDERGROUND GAS LINE
- C — UNDERGROUND STORM LINE
- C — UNDERGROUND SANITARY LINE
- W — UNDERGROUND WATER LINE
- X — FENCE
- AC — AIR CONDITIONER
- B — BOLLARD
- C — CABLE TV PEDESTAL
- STORM MANHOLE
- CATCH BASIN
- INLET
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- VALVE VAULT
- GM — GAS METER
- GAS VALVE
- GAS MARKER POST
- HAND HOLE
- EJB — ELECTRIC JUNCTION BOX
- E — ELECTRIC MANHOLE
- EM — ELECTRIC METER
- E — ELECTRIC PEDESTAL
- E — ELECTRIC TRANSFORMER
- LIGHT STANDARD
- SIGN
- TJB — TELEPHONE JUNCTION BOX
- P — TELEPHONE MANHOLE
- P — TELEPHONE PEDESTAL
- UTILITY POLE
- GUY WIRE
- BRICK SURFACE
- CONCRETE SURFACE
- R.O.W. — RIGHT OF WAY
- B-B — BACK-TO-BACK
- E-E — EDGE-TO-EDGE
- 12" — DECIDUOUS TREE w/TRUNK DIAM.

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REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	06-23-21/DDD	REVISED PER BUILDING LAYOUT (ALL)			
2	09-02-21/DDD	REVISED PER VILLAGE REVIEW DATED 07-23-2021			
3	09-29-21/BCD	REVISED PER IEPA REVIEW			
4	09-29-25/BCD	REVISED PER VILLAGE REVIEW DATED 06-23-2025			

EXISTING CONDITIONS
GARDEN STATION APARTMENTS

FILE NAME: EXISTING	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = 30'	04 of 13

PLOT FILE CREATED: 10/30/2025 2:05 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/29/2025 12:05 PM BY BRANDON DRAWING PATH: P:\904351\ENG\DRAWINGS\FINAL DRAFTING\EXISTING.DWG

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⚠1 REMOVE PCC DRIVEWAY APRON, 421 S.F.

REMOVE AND REPLACE 55 L.F. OF CURB AND GUTTER

⚠1 EXISTING STORM MANHOLES WEST & SOUTH PIPES SHOULD BE DISCONNECTED & REMOVED. CONNECTION POINTS ARE TO BE BLOCKED & MORTARED WITH HYDRAULIC CEMENT

REMOVE AND REPLACE 87 L.F. OF CURB AND GUTTER

EXISTING PCC SIDEWALK TO BE REMOVED, 1,427 S.F. ⚠1

⚠1 REMOVE EXISTING FRAME AND GRATE REPLACE WITH TY. 1 & O.L.

⚠1 REMOVE AND REPLACE PAVEMENT AS NECESSARY FOR SANITARY SEWER INSTALLATION

⚠1 REMOVE ALL CONCRETE PLANTERS & TREES, 375 S.F.

⚠1 REMOVE EXISTING FRAME AND GRATE REPLACE WITH TY. 1 & O.L.

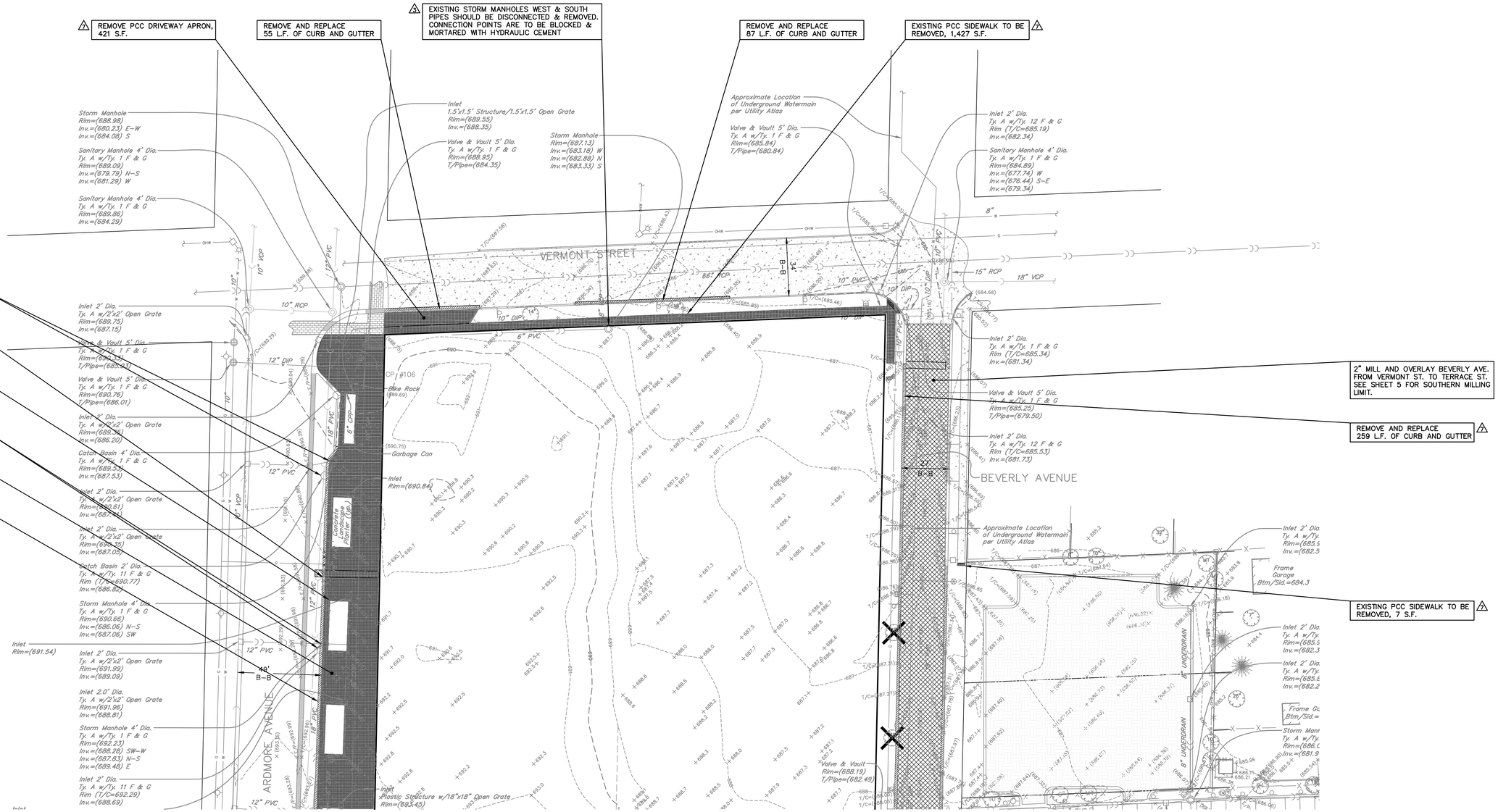
⚠1 EXISTING PCC SIDEWALK TO BE REMOVED, 8,855 S.F.

⚠1 REMOVE AND REPLACE 372 L.F. OF CURB AND GUTTER

2" MILL AND OVERLAY BEVERLY AVE. FROM VERMONT ST. TO TERRACE ST. SEE SHEET 5 FOR SOUTHERN MILLING LIMIT.

REMOVE AND REPLACE 259 L.F. OF CURB AND GUTTER ⚠1

EXISTING PCC SIDEWALK TO BE REMOVED, 7 S.F. ⚠1



⚠1 NOTES:

1). ALL EXISTING UTILITIES TO BE REMOVED FROM THE SITE INCLUDING BUT NOT LIMITED TO WATER SERVICE, SANITARY SERVICE, ELECTRIC, GAS, AND PHONE. THE EXISTING WATER AND SANITARY SERVICES NEED TO BE TERMINATED AT THE MAINS. FOR THE WATER SERVICE TERMINATIONS, THE SERVICE WILL BE REMOVED TO THE MAIN AND DISCONNECTED AT THE CORPORAL STOP. IF THE CORPORAL STOP LEAKS , THE STOP WILL NEED TO BE REMOVED AND A SLEEVE WILL BE INSTALLED OVER THE OLD STOP. THE SANITARY SERVICE WYES NEED TO BE REMOVED AND REPLACED WITH A STRAIGHT PIPE.

2). ALL SURPLUS MATERIAL NOT NEEDED FOR ANY PART OF THE WORK SHALL BE HAULED OFF AND LEGALLY DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE PAID AND SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

3). CONTRACTOR TO FOLLOW ALL LOCAL, STATE, FEDERAL AND OSHA GUIDELINES FOR BUILDING REMOVAL AND DISPOSAL.

4). SEE STORMWATER POLLUTION PREVENTION PLAN FOR EROSION CONTROL MEASURES WHICH SHALL BE INSTALLED PRIOR TO DEMOLITION.

5). CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVAL AND RELOCATION WITH UTILITY COMPANIES AND MUNICIPALITY.

6.) ALL EXISTING FENCES WITHIN THE LIMITS OF THE SITE TO BE REMOVED.

7.) CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES AND NOT REMOVE EXISTING STORM SEWERS PRIOR TO PROVIDING PROPOSED STORM SEWERS OR TEMPORARY DRAINAGE SYSTEMS.

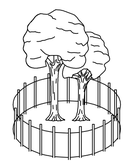
8.) SITE TO BE CLEARED OF ALL EXISTING TREES UNLESS NOTED ON THE LANDSCAPE PLANS.

9.) CONTRACTOR TO FOLLOW IDOT STANDARDS AND DIRECTION FROM THE VILLAGE OF VILLA PARK REGARDING ROAD CLOSURE, PARTIAL ROAD CLOSURE AND ALL TRAFFIC CONTROL.

10.) ALL OVERHEAD UTILITIES TO BE REMOVED FROM SITE.

11.) ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.

12.) TREE CANOPY & ROOT PRUNING WORK ARE TO BE COMPLETED AS DEEMED NECESSARY BY THE VILLAGE OF VILLA PARK.



NOTE: INSTALL PROTECTIVE FENCING TO A MINIMUM HEIGHT OF 4.0', FENCING SHALL BE POSITIONED SUCH THAT DRIP LINE OF TREE IS PROTECTED.

TREE PROTECTION FENCING

LEGEND

- CURB & GUTTER REMOVAL
- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE PAVEMENT OR SIDEWALK TO BE REMOVED
- ASPHALT PAVEMENT TO BE MILLED AND OVERLAID w/2' BIT. SURFACE COURSE
- WALL TO BE REMOVED
- -X·X·X·X- UTILITY TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE, WITH TREE PROTECTION FENCE, TO BE PRESERVED IF IN GOOD CONDITION. SEE LANDSCAPE PLANS FOR FURTHER INFORMATION.

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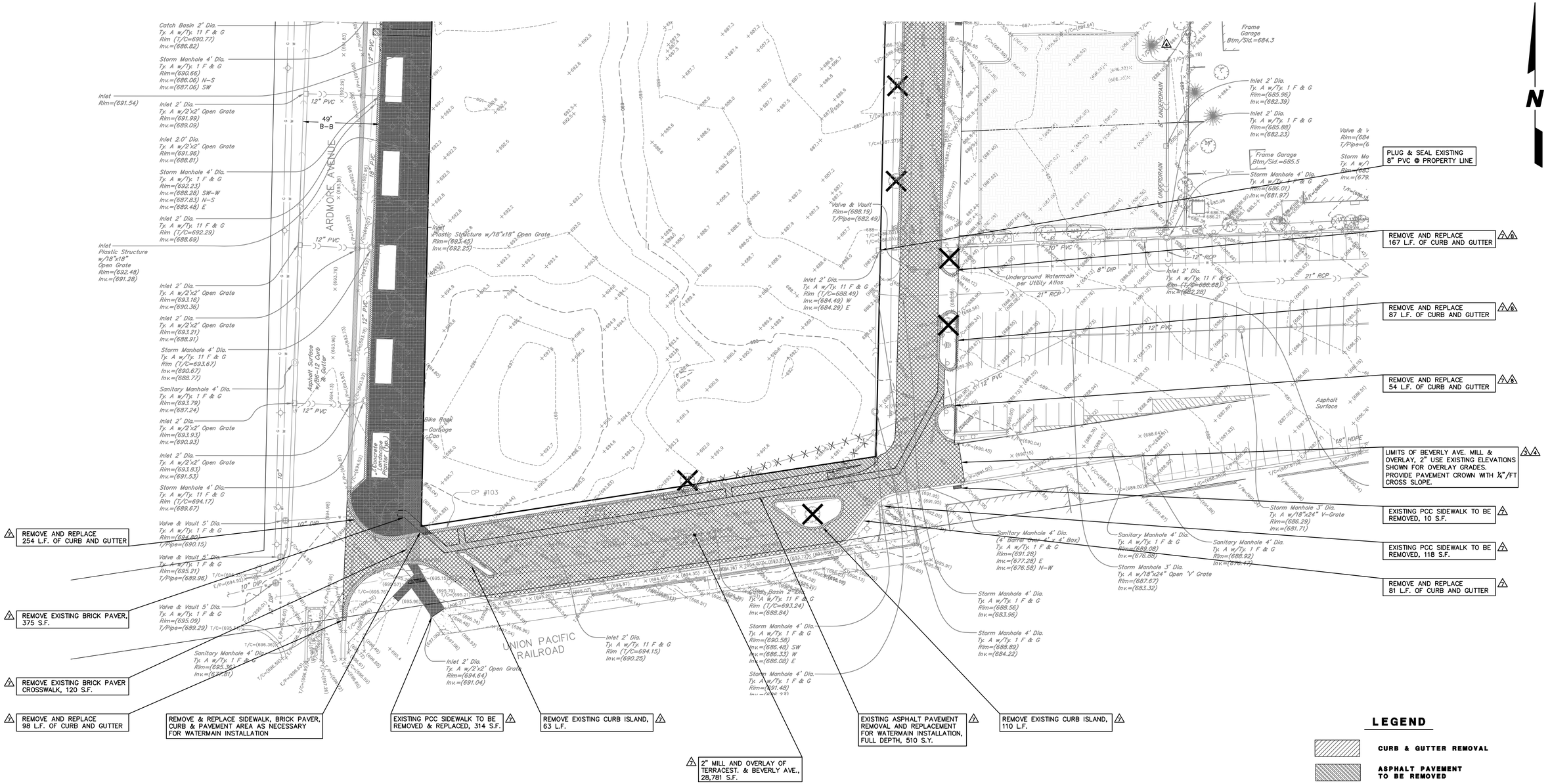
REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
⚠1	06-23-21/DDD	REVISED PER BUILDING LAYOUT (ALL)			
⚠2	09-02-21/DDD	REVISED PER VILLAGE REVIEW DATED 07-23-2021			
⚠3	09-29-21/BCD	REVISED PER IPEA REVIEW			
⚠4	11-16-21/BCD	REVISED PER VILLAGE REVIEW DATED 11-12-2021			
⚠5	01-10-22/BCD	REVISED PER VILLAGE REVIEW DATED 12-28-2021			
⚠6	09-29-25/BCD	REVISED PER VILLAGE REVIEW DATED 06-23-2025			

DEMOLITION PLAN

GARDEN STATION APARTMENTS

FILE NAME: DEMO	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = 30'	05 of 13



LEGEND

- CURB & GUTTER REMOVAL
- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE PAVEMENT OR SIDEWALK TO BE REMOVED
- ASPHALT PAVEMENT TO BE MILLED AND OVERLAID w/2' BIT. SURFACE COURSE
- WALL TO BE REMOVED
- UTILITY TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE, WITH TREE PROTECTION FENCE, TO BE PRESERVED IF IN GOOD CONDITION. SEE LANDSCAPE PLANS FOR FURTHER INFORMATION.

⚠2 NOTE:
A RIGHT OF ENTRY PERMIT IS REQUIRED FOR WORK WITHIN 50' OF THE UNION PACIFIC RAILWAY R.O.W. CONTRACTOR SHALL OBTAIN PERMIT FROM UNION PACIFIC AND WILL BE REQUIRED TO OBTAIN RAILROAD PROTECTIVE LIABILITY INSURANCE & FLAGGING MAY BE REQUIRED.

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REVISIONS

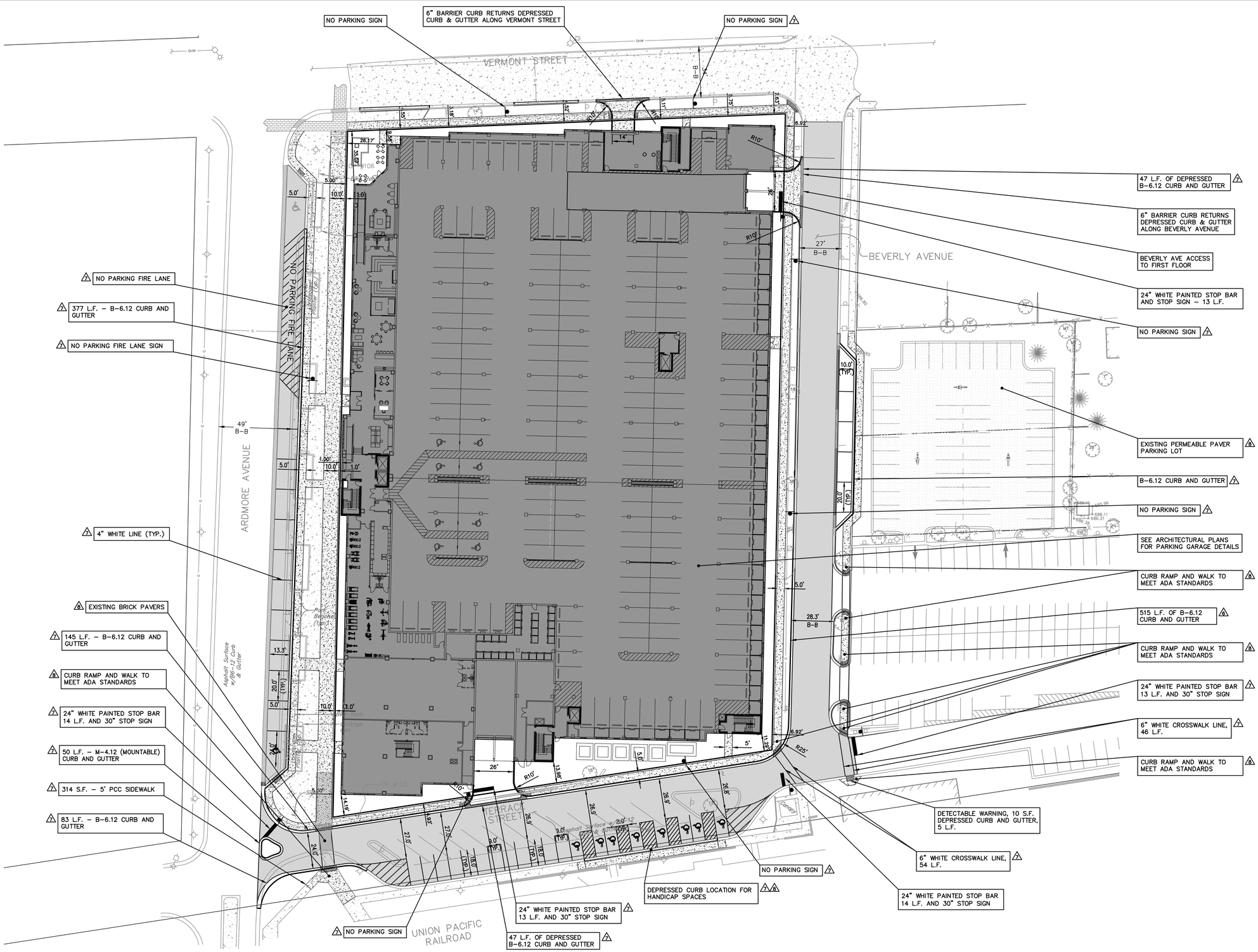
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	06-23-21/DDD	REVISED PER BUILDING LAYOUT (ALL)	6	10-31-25/BCD	REVISED PER VILLAGE REVIEW DATED 10-22-2025
2	09-02-21/DDD	REVISED PER VILLAGE REVIEW DATED 07-23-2021			
3	09-29-21/BCD	REVISED PER IEPA REVIEW			
4	11-16-21/BCD	REVISED PER VILLAGE REVIEW DATED 11-12-2021			
5	01-10-22/BCD	REVISED PER VILLAGE REVIEW DATED 12-28-2021			
7	09-29-25/BCD	REVISED PER VILLAGE REVIEW DATED 06-23-2025			

DEMOLITION PLAN

GARDEN STATION APARTMENTS

FILE NAME: DEMO	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = 30'	06 of 13

PLOT FILE CREATED: 10/30/2025 2:05 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/29/2025 12:09 PM BY BRANDON DRAWING PATH: P:\904351\ENG\DRAWINGS\FINAL DRAFTING\DEMO.DWG



NOTE:
1.5' OF PAVEMENT SHALL BE REMOVED & REPLACED ALONG ALL EXISTING CURB TO BE REMOVED & REPLACED.

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PREPARED FOR:
HAWTHORNE VILLA PARK LP
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235-6647

PREPARED BY:
CEMCON, Ltd.
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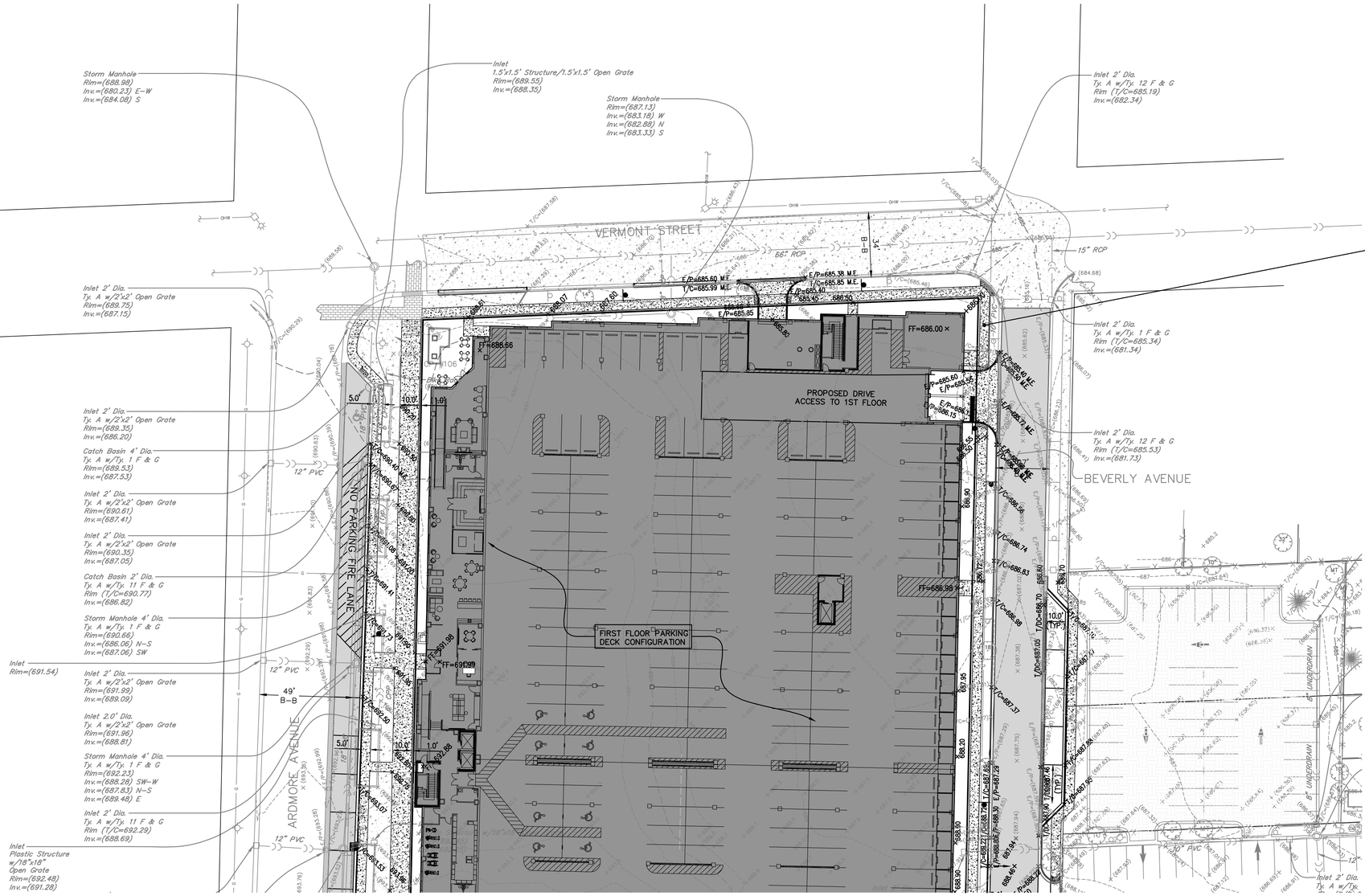
REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	06-23-21/DDD	REVISED PER BUILDING LAYOUT (ALL)	6	10-31-25/BCD	REVISED PER VILLAGE REVIEW DATED 10-22-2025
2	09-02-21/DDD	REVISED PER VILLAGE REVIEW DATED 07-23-2021			
3	09-29-21/BCD	REVISED PER IEPA REVIEW			
4	11-16-21/BCD	REVISED PER VILLAGE REVIEW DATED 11-12-2021			
5	01-24-22/BCD	REVISED PER VILLAGE REVIEW DATED 01-21-2022			
7	09-29-25/BCD	REVISED PER VILLAGE REVIEW DATED 06-23-2025			

GEOMETRIC PLAN

GARDEN STATION APARTMENTS

FILE NAME: GEOMETRIC	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = 30'	07 of 13

PLOT FILE CREATED: 10/30/2025 2:05 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/29/2025 3:36 PM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\FINAL DRAFTING\GEOMETRIC.DWG



⚠ DRAINAGE & GRADING NOTES

1. ELEVATIONS SHOWN FOR ALL CURB INLETS, CATCH BASINS, AND MANHOLES ARE TOP OF CURB.
2. ALL CURBS SHALL BE BACKFILLED TO WITHIN 6 INCHES OF THE TOP OF CURB.
3. EXISTING DRAINAGE TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE PRESERVED OR REPAIRED IN ACCORDANCE WITH SPECIFICATION (SEE SHEET 2).
4. T/F – INDICATES PROPOSED TOP OF FOUNDATION ELEVATIONS AND THE LOWEST OPENING IN A CONVENTIONAL FOUNDATION WHERE SURFACE RUNOFF CAN ENTER THE FOUNDATION.
5. THE FINISHED TOPSOIL ELEVATION AT THE FOUNDATION SHOULD GENERALLY BE 0.7 FEET BELOW THE TOP OF FOUNDATION ELEVATION UNLESS INDICATED OTHERWISE.
6. LOT DIMENSIONS SHOWN ON THIS PLAN MAY NOT NECESSARILY CORRESPOND TO THE PLATTED DIMENSIONS. REFER TO THE FINAL RECORDED PLAT OF SUBDIVISION.
7. – WATERMAIN PROTECTION (SEE SHEETS 2 & 3 FOR DETAILS.)
8. – INDICATES THE LOCATION AND DIRECTION OF AN OVERLAND FLOOD ROUTE THAT MUST BE RESPECTED IN ALL FINAL GRADING OPERATIONS (SEE DETAIL).
9. – DENOTES AREA WHERE GRANULAR TRENCH BACKFILL IS REQUIRED.
10. (ELEV.) – INDICATES EXISTING ELEVATION.
11. – DENOTES EXISTING UTILITY TO BE REMOVED.
12. ALL REAR YARD STORM SEWERS ARE TO BE OFFSET 5 FEET FROM LOT LINE UNLESS OTHERWISE NOTED.
13. △ – INDICATES DRIVEWAY LOCATION.
14. – INDICATES PVC SUMP DRAIN CONDUIT.
15. INLETS 7, 8, & 9 TO BE CONSTRUCTED ADJACENT TO AND NOT WITHIN 6" BARRIER CURB.
16. THE CONTRACTOR MAY BE REQUIRED TO REPLACE EXISTING SIDEWALK OR CURB AT THE DISCRETION OF VILLAGE STAFF TO VILLAGE STANDARDS.

NOTES:

1. EXISTING PAVEMENT, CURB, SIDEWALK, PLANTERS AND LANDSCAPING TO BE REMOVED FOR UTILITY INSTALLATION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
2. SITE REQUIRED DETENTION STORAGE VOLUME = 1.141 AC.-FT. THE VOLUME IS NOT PROVIDED ON-SITE BUT IN THE EXISTING VILLAGE OF VILLA PARK TERRACE-DOUGLAS GARDEN PARK STORMWATER MANAGEMENT FACILITY THE FEE-IN-LIEU COST FOR THIS STORAGE IS $149,106.00 (BASED ON $3/GF).
3. THE PCBMP TREATMENT REQUIREMENT IS BASED ON 0.17 ACRES OF UNDETAINED RUNOFF. THE FEE-IN-LIEU COST IS $3703.00 (BASED ON $500/1000 S.P.). ⚠5

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7	09-29-25/BCD	REVISED PER VILLAGE REVIEW DATED 06-23-2025			

DRAINAGE AND GRADING PLAN
GARDEN STATION APARTMENTS

FILE NAME: OVER GRADE	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = 30'	08 of 13

PLOT FILE CREATED: 10/30/2025 2:05 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/30/2025 2:01 PM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\FINAL DRAFTING\OVER GRADE.DWG

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1. ELEVATIONS SHOWN FOR ALL CURB INLETS, CATCH BASINS, AND MANHOLES ARE TOP OF CURB.
2. ALL CURBS SHALL BE BACKFILLED TO WITHIN 6 INCHES OF THE TOP OF CURB.
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16. THE CONTRACTOR MAY BE REQUIRED TO REPLACE EXISTING SIDEWALK OR CURB AT THE DISCRETION OF VILLAGE STAFF TO VILLAGE STANDARDS.

N

REMOVE 127± L.F. OF EXISTING CURB AND GUTTER AND REPLACE WITH DEPRESSED CURB AND GUTTER

Inv.=(687.41)
Inlet 2' Dia.
Ty. A w/2'x2' Open Grate
Rim=(690.35)
Inv.=(687.05)

Catch Basin 2' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=690.77)
Inv.=(686.82)

Storm Manhole 4' Dia.
Ty. A w/Ty. 1 F & G
Rim=(690.66)
Inv.=(686.06) N–S
Inv.=(687.06) SW

Inlet
Rim=(691.54)

Inlet 2' Dia.
Ty. A w/2'x2' Open Grate
Rim=(691.99)
Inv.=(689.09)

Inlet 2.0' Dia.
Ty. A w/2'x2' Open Grate
Rim=(691.96)
Inv.=(688.81)

Storm Manhole 4' Dia.
Ty. A w/Ty. 1 F & G
Rim=(692.23)
Inv.=(688.28) SW–W
Inv.=(687.83) N–S
Inv.=(689.48) E

⚠ REMOVE EXISTING FRAME AND GRATE AND REPLACE w/TY. 1 F&G

Inlet 2' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=692.29)
Inv.=(688.69)

Inlet
Plastic Structure
w/18"x18"
Open Grate
Rim=(692.48)
Inv.=(691.28)

Inlet 2' Dia.
Ty. A w/2'x2' Open Grate
Rim=(693.16)
Inv.=(690.36)

⚠ N. 1905253.73, E. 1080740.27
INLET NO. 3 2'ø
TY. A w/TY. 11 FR. & GR.
RIM =(T/C) 693.53
INV. = 690.70
REMOVE AND REPLACE EX. 6" PIPE AND CONNECT STRUCTURES

Inlet 2' Dia.
Ty. A w/2'x2' Open Grate
Rim=(693.21)
Inv.=(688.91)

Storm Manhole 4' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=693.67)
Inv.=(690.67)
Inv.=(688.77)

⚠ REMOVE EXISTING FRAME AND GRATE AND REPLACE w/TY. 1 F&G

⚠ N. 1905154.78, E. 1080736.71
INLET NO. 2 2'ø
TY. A w/TY. 11 FR. & GR.
RIM =(T/C) 694.15
INV. = 690.00

Inlet 2' Dia.
Ty. A w/2'x2' Open Grate
Rim=(693.93)
Inv.=(690.93)

Inlet 2' Dia.
Ty. A w/2'x2' Open Grate
Rim=(693.83)
Inv.=(691.53)

⚠ 5 L.F. – 12" RCP TY. 1 @ 2.00% CONNECT TO EXISTING

Storm Manhole 4' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=694.17)
Inv.=(689.67)

⚠ REMOVE AND REPLACE EX. 2' DIA. INLET AT NEW CURB LOCATION

ARDMORE AVENUE

PARKING FIRE LANE

12" PVC

49' B–B

5.0' 10.0' 1.0'

13.3' 20.0' 5.0' 10.0' 3.0'

FF=691.99

FF=692.88

FF=694.98

FF=695.15

FF=693.33

FF=693.52

FF=693.85

FF=693.80

FF=688.98

FF=691.75

695.00

687.95

688.20

688.90

688.95

687.84

688.46

688.50

688.00

688.80

28.3' B–B

693.50

693.33

693.60

690.11

690.29

690.70

690.77

690.35

690.39

690.23

690.14

690.00

689.99

689.95

689.91

689.85

689.80

689.75

689.70

689.65

689.60

689.55

689.50

689.45

689.40

689.35

689.30

689.25

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689.15

689.10

689.05

689.00

688.95

688.90

688.85

688.80

688.75

688.70

688.65

688.60

688.55

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688.00

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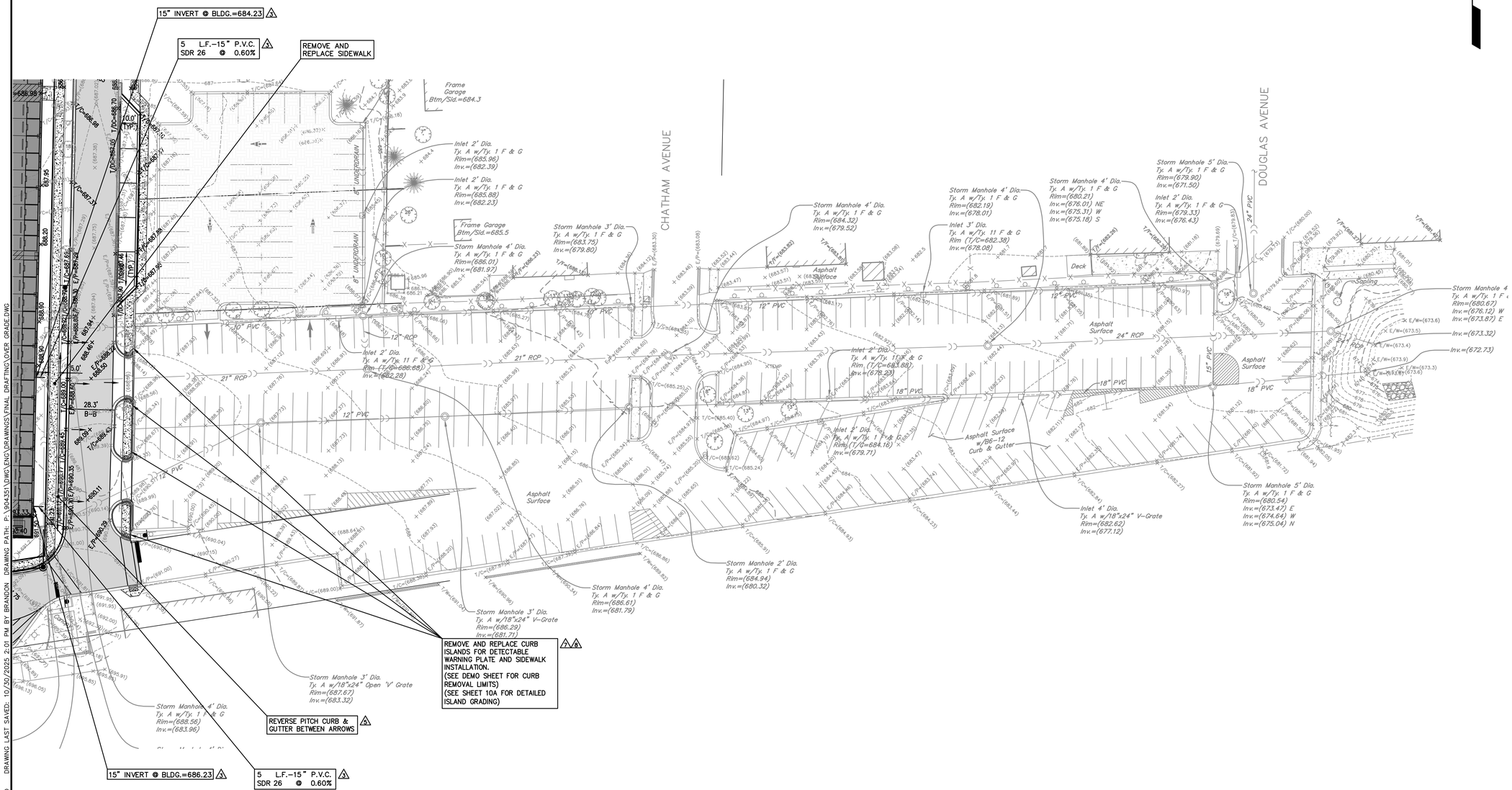
687.90



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NOTES:

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2. MEET EXISTING PAVEMENT GRADES ALONG EAST SIDE OF BEVERLY AT BOTH ACESS POINTS TO THE METRA PARKING LOT. ⚠6

PLOT FILE CREATED: 10/30/2025 2:05 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/30/2025 2:01 PM BY BRANDON DRAWING PATH: P:\904351\ENG\DRAWINGS\FINAL DRAFTING\OVER GRADE.DWG

PREPARED FOR:
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100 TOWER DRIVE, SUITE 238
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REVISIONS

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⚠1	06-23-21/DDD	REVISED PER BUILDING LAYOUT (ALL)	⚠4	09-29-25/BCD	REVISED PER VILLAGE REVIEW DATED 06-23-2025
⚠2	09-02-21/DDD	REVISED PER VILLAGE REVIEW DATED 07-23-2021	⚠5	10-31-25/BCD	REVISED PER VILLAGE REVIEW DATED 10-22-2025
⚠3	09-29-21/BCD	REVISED PER IEPA REVIEW			
⚠4	11-16-21/BCD	REVISED PER VILLAGE REVIEW DATED 11-12-2021			
⚠5	01-10-22/BCD	REVISED PER VILLAGE REVIEW DATED 12-28-2021			
⚠6	01-24-22/BCD	REVISED PER VILLAGE REVIEW DATED 01-21-2022			

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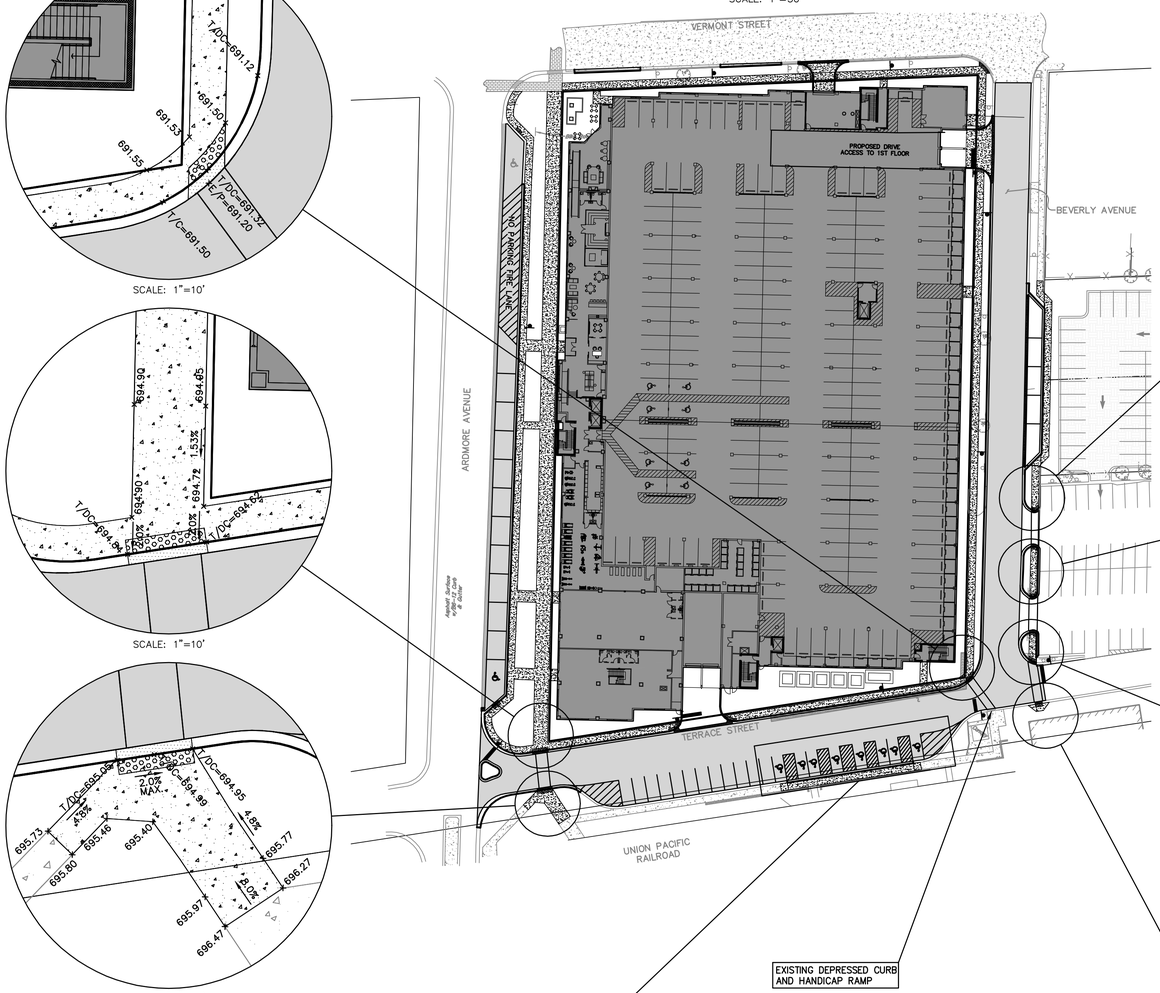
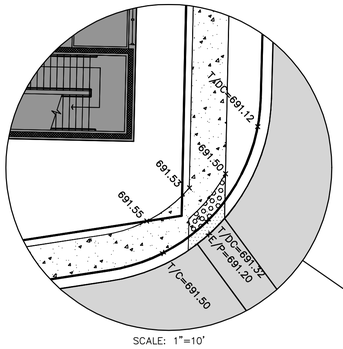
DRAINAGE AND GRADING PLAN
GARDEN STATION APARTMENTS

FILE NAME: OVER GRADE	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO. 10 of 13
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = 30'	

PLOT FILE CREATED: 10/30/2025 2:05 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/30/2025 2:01 PM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\FINAL DRAFTING\OVER GRADE.DWG

PLAN VIEW
SCALE: 1"=50'

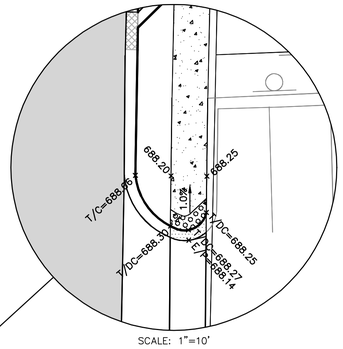




SCALE: 1"=10'

SCALE: 1"=10'

SCALE: 1"=10'



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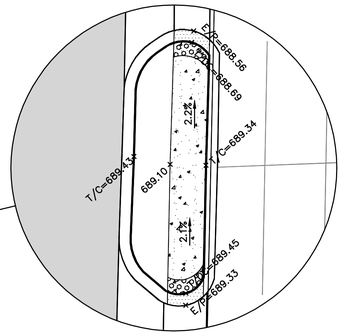

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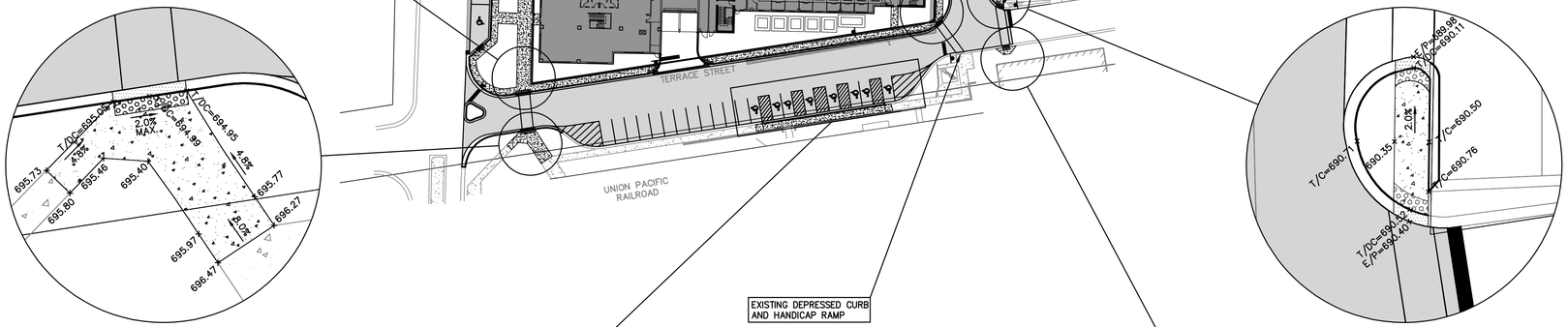

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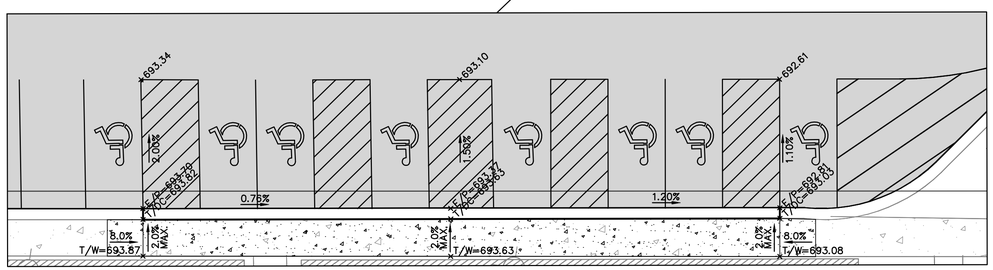

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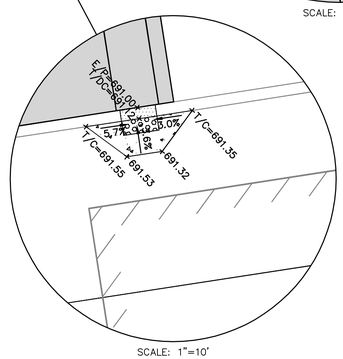

SCALE: 1"=10'

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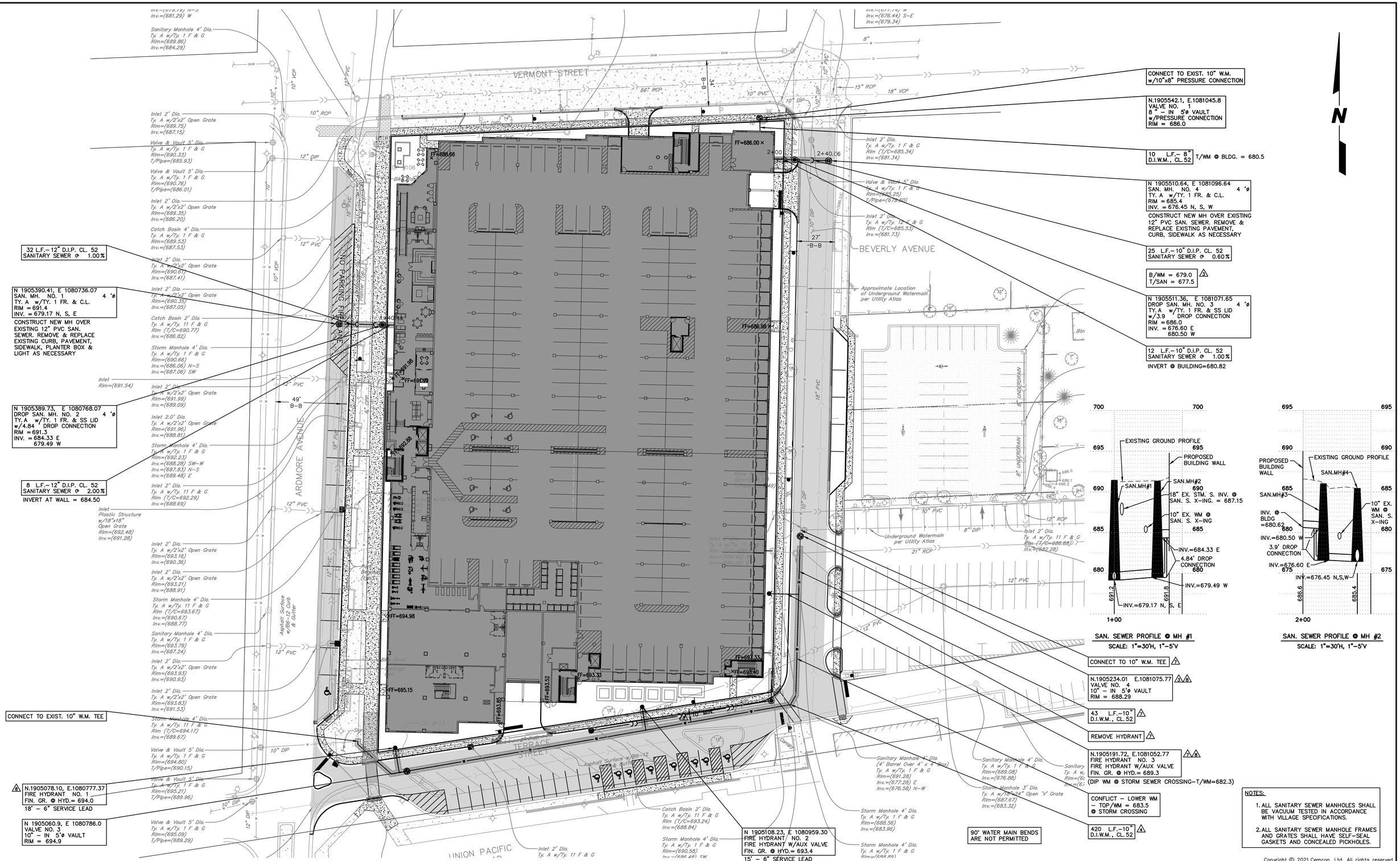
REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
A	10-31-25/BCD	REVISED PER VILLAGE REVIEW DATED 10-22-2025			

ADA GRADING PLAN
GARDEN STATION APARTMENTS

FILE NAME: OVER GRADE	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = LISTED	10A of 13



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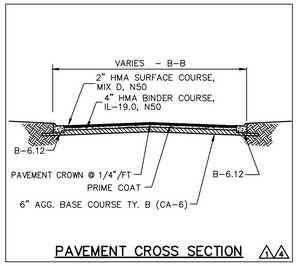
UTILITY PLAN

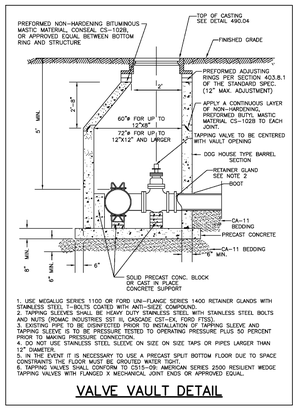
GARDEN STATION APARTMENTS

FILE NAME: UTILITY	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = 30'	11 of 13

PLOT FILE CREATED: 10/30/2025 2:06 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/29/2025 3:36 PM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\FINAL DRAWINGS\FINAL DRAFTING\UTILITY.DWG

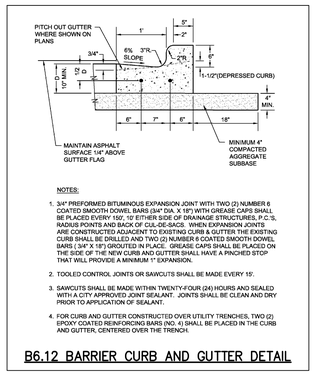


PAVEMENT CROSS SECTION



1. USE MEGALUG SERIES 1100 OR 1700 OR UNI-FLANGE SERIES 1400 RETAINER GLANDS WITH STAINLESS STEEL T-BOLTS COATED WITH ANTI-GALLIC COMPOUND.
2. TAPPING SLEEVES SHALL BE HEAVY DUTY STAINLESS STEEL WITH STAINLESS STEEL BOLTS AND NUTS (ROMAC INDUSTRIES SST III, CASCADE CST-EX, FORD FTSS).
3. EXISTING PIPE TO BE DISINFECTED PRIOR TO INSTALLATION OF TAPPING SLEEVE AND TAPPING SLEEVE IS TO BE PRESSURE TESTED TO OPERATING PRESSURE PLUS 50 PERCENT PRIOR TO MAKING PRESSURE CONNECTION.
4. DO NOT USE STAINLESS STEEL SLEEVE ON SIZE ON SIZE TAPS OR PIPES LARGER THAN 8" DIAMETER.
5. IN THE EVENT IT IS NECESSARY TO USE A PRECAST SPLIT BOTTOM FLOOR DUE TO SPACE CONSTRAINTS THE FLOOR MUST BE GROUTED WATER TIGHT.
6. TAPPING VALVES SHALL CONFORM TO C515–09; AMERICAN SERIES 2500 RESILIENT WEDGE TAPPING VALVES WITH FLANGED X MECHANICAL JOINT ENDS OR APPROVED EQUAL.

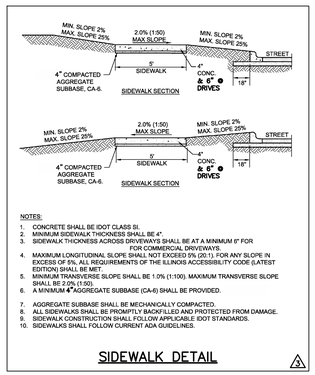
VALVE VAULT DETAIL



NOTES:

1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

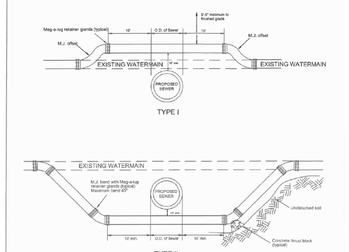
B6.12 BARRIER CURB AND GUTTER DETAIL



NOTES:

1. CONCRETE SHALL BE IDOT CLASS SI.
2. MINIMUM SIDEWALK THICKNESS SHALL BE 4".
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR COMMERCIAL DRIVEWAYS.
4. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (20:1). FOR ANY SLOPE IN EXCESS OF 5%, ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITION) SHALL BE MET.
5. MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100). MAXIMUM TRANSVERSE SLOPE SHALL BE 2.0% (1:50).
6. A MINIMUM **4"** AGGREGATE SUBBASE (CA-6) SHALL BE PROVIDED.
7. AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED.
8. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
9. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
10. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

SIDEWALK DETAIL



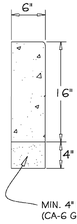
GENERAL NOTES:

1. MEGA-LUG RETAINER GLANDS AND THRUST BLOCKING SHALL BE USED AT ALL FITTINGS AND JOINTS.
2. AN EIGHTEEN INCH (1.5') VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE WATERMAIN AND THE PROPOSED SEWER.
3. WATERMAINS SHALL ONLY BE RAISED A MAXIMUM OF 18" WHEN USING M.J. OFFSET FITTINGS.
4. TYPE I RELOCATIONS SHALL ONLY BE USED WHEN THE TOP OF THE RELOCATED WATERMAIN IS 5'0" OR GREATER BELOW FINISHED GRADE.
5. TYPE II RELOCATIONS REQUIRE THE PROPOSED SEWER TO BE INSTALLED IN PRESSURE RATED PIPE (CLASS 52 DUCTILE IRON PIPE, OR PVC PIPE WITH CLASS 200 JOINTS) WITH MECHANICAL JOINTS, OR ENCASED IN A BITUMINOUS COATED STEEL CASING PIPE, EXTENDING A MINIMUM OF 5.0' CENTERED ON THE WATERMAIN.
6. ALL EBGLIN-GRADE FASTENERS SHALL BE STAINLESS STEEL.
   A. BOLTS - GRADE 304
   B. NUTS AND WASHERS - GRADE 300

NOT TO SCALE

REV.	DATE		
DESIGN BY: KLM	DATE: 10/1/2020	WATERMAIN RELOCATION	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: 01/07/2008		WATER - 25

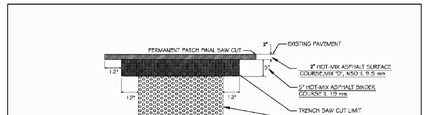
B-6 BARRIER CURB DETAIL



GENERAL NOTES:

1. CONTRACTION JOINTS SHALL BE PLACED BETWEEN EXPANSION JOINTS AT 15' INTERVALS.
2. EXPANSION JOINTS ARE TO BE PLACED AT 60' INTERVALS. 2 - #6 X 18" REINFORCING BARS TO BE PLACED AT ALL EXPANSION JOINTS.

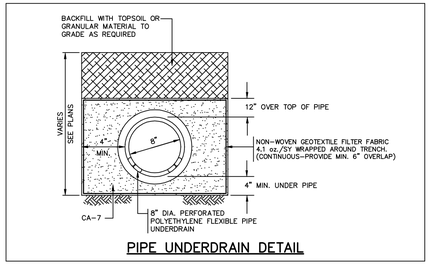
NOT TO SCALE



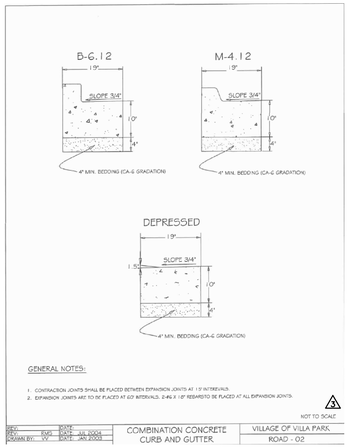
NOTES:

1. A STEEL PLATE SHALL BE PLACED OVER ANY TRENCH REMAINING OPEN TO TRAFFIC PRIOR TO THE INSTALLATION OF THE HOT-MIX BINDER AND SURFACE COURSES.
2. THE ENTIRE STREET FROM CURB TO CURB OR JOINT TO JOINT SHALL BE RESURFACED UNLESS ENTIRELY EFFECTED BY THE CITY ENGINEER OR HIS DESIGNEE. THE PERMANENT PATCH SHALL BE MILLED SQUARE OR RECTANGULAR AND SHALL ENCOMPASS THE TRENCH AREA WITH A MINIMUM OF 12" INCHES BEYOND THE WIDEST OR LONGEST SAW CUT LIMITS OF THE TRENCH.
3. THE EDGES OF THE EXISTING PAVEMENT SHALL BE SAW CUT AND FRAMED PRIOR TO THE PLACEMENT OF THE SURFACE COURSE.
4. ANY SURFACE VARIATIONS OF OR GREATER SHALL BE CORRECTED BY REMOVAL AND RESURFACING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
6. ALL MATERIAL SHALL MEET CURRENT ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PAVEMENT PATCH DETAIL



PIPE UNDERDRAIN DETAIL

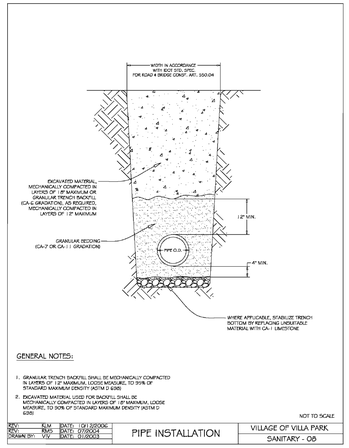


GENERAL NOTES:

1. CONTRACTION JOINTS SHALL BE PLACED BETWEEN EXPANSION JOINTS AT 15' INTERVALS.
2. EXPANSION JOINTS ARE TO BE PLACED AT 60' INTERVALS. 2 - #6 X 18" REINFORCING BARS TO BE PLACED AT ALL EXPANSION JOINTS.

NOT TO SCALE

REV.	DATE		
DESIGN BY: KLM	DATE: 10/1/2020	COMBINATION CONCRETE CURB AND GUTTER	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2003		ROAD - 02

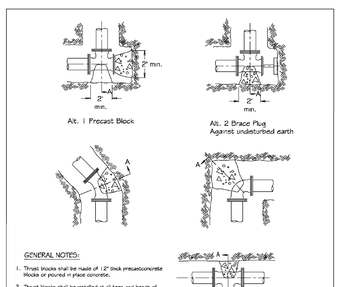


GENERAL NOTES:

1. GRANULAR TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED IN LAYERS OF 1'-8" MAXIMUM, LOOSE MEASURE, TO 95% OF STANDARD MAXIMUM DENSITY (ASTM D 698)
2. EXCAVATED MATERIAL USED FOR BACKFILL SHALL BE MECHANICALLY COMPACTED IN LAYERS OF 1'-8" MAXIMUM, LOOSE MEASURE, TO 90% OF STANDARD MAXIMUM DENSITY (ASTM D 698)

NOT TO SCALE

REV.	DATE		
DESIGN BY: KLM	DATE: 10/1/2020	PIPE INSTALLATION	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: 01/07/2008		SANITARY - 08

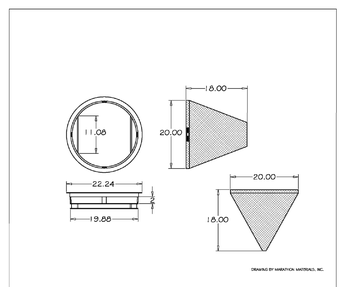


GENERAL NOTES:

1. Thrust blocks shall be made of 12" thick precastconcrete blocks or poured in place concrete.
2. Thrust blocks shall be installed at all bends and bends of 11.25° and greater.
3. Thrust blocks shall be installed against undisturbed soil.
4. Concrete shall be 3000 PSI (min.).
5. Poured concrete shall be placed in such a manner that pipe and fittings will be accessible for repairs.
6. All joints requiring thrust blocking shall also use Mag-a-Lug retainer glands.
7. Use of wood materials for thrust blocking is strongly prohibited.
8. All below-grade fasteners to be stainless steel: bolts 4 threaded rods - grade 304 nuts 4 washers - grade 300

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: FEB 2005	THRUST BLOCK INSTALLATION	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: FEB 2005		WATER-22

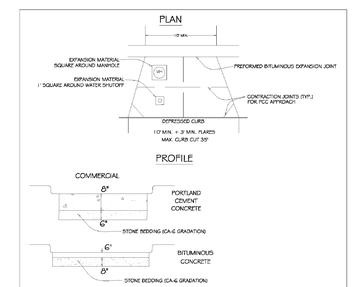


GENERAL NOTES:

1. USE DRAINAGE STRUCTURE INLET FILTER MANUFACTURED BY MARATHONMATERIALS, INC. OR APPROVED EQUAL.
2. FRAME: TOP FLANGE FABRICATED FROM 1.25 X 1.25 X 0.125 ANGLE, BASE RIM FABRICATED FROM 1.5 X 0.5 X 0.125 CHANNEL, HANDLES AND SUSPENSION BRACKETS FABRICATED FROM 1.25 X 0.25 FLAT STOCK, ALL DOMESTIC STEEL CONFORMING TO ASTM - A36.
3. SEDIMENT BAG: BAG FABRICATED FROM 4 OZ/SQ. YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH 4 STAINLESS STEEL STRAP AND LOCK.

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: JUL 2004	DRAINAGE STRUCTURE PROTECTION	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2005		STORM - 17

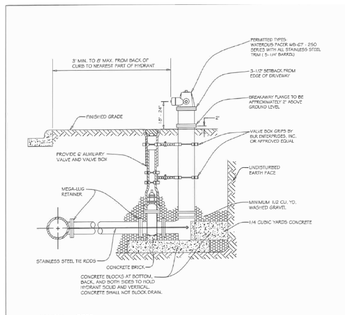


GENERAL NOTES:

1. CURBING AND PROTECTION FOR THE APPROACH SHALL BE AS DIRECTED BY THE VILLAGE ENGINEER.
2. ALL STONE BEDDING SHALL BE MECHANICALLY COMPACTED

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: 11/1/2007	TYPICAL DRIVEWAY APPROACH	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2005		STREET - 03

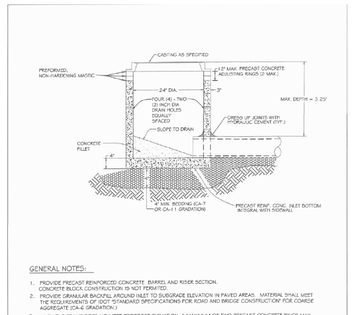


GENERAL NOTES:

1. MAXIMUM BARREL EXTENSIONS ARE 1.5 INCHES AND SHALL BE WATEROUS EXTENSION FOR WATEROUS HYDRANTS.
2. ALL HYDRANTS ARE TO BE SUPPLIED WITH A 6" FLANGED AND MECHANICAL JOINT AUXILIARY VALVE THAT CONFORMS TO AWWA C509-80. ALL TRIM BOLTS ARE TO BE STAINLESS STEEL.
3. ALL EBGLIN GRADE FASTENERS TO BE STAINLESS STEEL:
   A. BOLTS AND THREADED RODS - GRADE #304
   B. NUTS AND WASHERS - GRADE #300
4. MEGA-LUG RETAINERS MUST BE INSTALLED ON ALL MECHANICAL FITTINGS.

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: JUL 2004	FIRE HYDRANT SETTING	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2005		WATER - 04

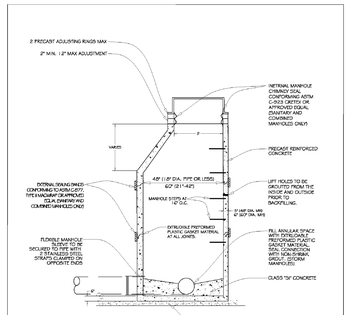


GENERAL NOTES:

1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE GRANULAR BACKFILL AROUND INLET TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COMBINE AGGREGATE (CA-6 GRADATION.)
3. WHEN THE FRAME DOES NO MEET PROPOSED ELEVATION, A MAXIMUM OF TWO PRECAST CONCRETE RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 1.2 INCHES. THE RINGS AND FRAME SHALL BE SET IN A BED OF PREFORMED NON-HARDENING MASTIC (RUB-A-NOL, EZ STICK, OR APPROVED EQUAL)
4. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.
5. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
6. IN PAVED AREAS, DRAIN HOUSEWEEP HOLES SHALL BE COVERED WITH FILTER FABRIC. FILTER FABRIC SHALL BE SECURED TO THE OUTSIDE OF STRUCTURE PRIOR TO BACKFILL.
7. IN GRASSED AREAS, DRAIN HOUSEWEEP HOLES SHALL BE PLUGGED WITH HYDRAULIC CEMENT.

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: JUL 2004	INLET TYPE "A"	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2005		STORM - 15

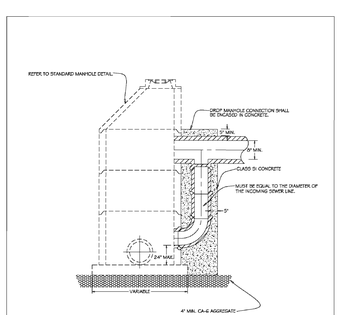


GENERAL NOTES:

1. FRAME AND LID (STANTON): NEENAH R-1013-S-2000 FRAME NEENAH R-1013-S-2000 SELF SEALING LID
2. FRAME AND LID (EJ1006A): NEENAH R-1013-S-2000 FRAME NEENAH R-1013-S-2000 LID
3. ALL LIFT HOLES ARE TO BE GROUTED FROM INSIDE AND OUTSIDE BEFORE SHOVELING

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: JUL 2004	STANDARD MANHOLE	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2005		SANITARY - 05

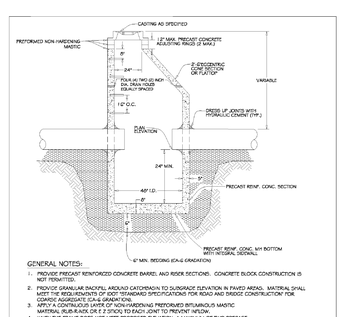


GENERAL NOTES:

1. DROP CONNECTION SHALL BE REQUIRED WHEN THE DIFFERENCE IN ELEVATION OF INVERTS OF TWO (2) INTERSECTING CONDUITS IS GREATER THAN 24 INCHES.
2. DROP CONNECTION SHALL BE ENCASED IN CONCRETE.

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: JUL 2004	DROP CONNECTION TO SANITARY MANHOLE	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2005		SANITARY - 04

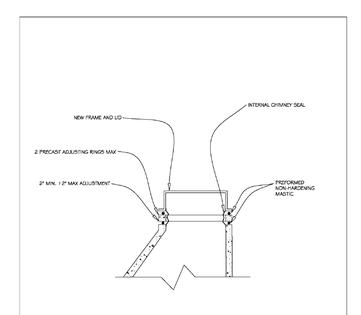


GENERAL NOTES:

1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTIONS. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE GRANULAR BACKFILL AROUND CATCHBASIN TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COMBINE AGGREGATE (CA-6 GRADATION.)
3. WHEN THE FRAME DOES NO MEET PROPOSED ELEVATION, A MAXIMUM OF TWO PRECAST CONCRETE RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 1.2 INCHES. THE RINGS AND FRAME SHALL BE SET IN A BED OF PREFORMED NON-HARDENING MASTIC (RUB-A-NOL, EZ STICK OR APPROVED EQUAL)
4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MAXIMUM OF TWO PRECAST CONCRETE RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 1.2 INCHES. THE RINGS AND FRAME SHALL BE SET IN A BED OF PREFORMED NON-HARDENING MASTIC (RUB-A-NOL, EZ STICK OR APPROVED EQUAL)
5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.
6. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
7. ONLY PLASTIC POLYMER STEPS SHALL BE USED.
8. WHEN CATCH BASIN DEPTH IS OVER 12 FEET, THE THICKNESS OF THE PRECAST, REINFORCED CONCRETE BASE SHALL BE A MINIMUM OF 12 INCHES. WHEN CATCHBASIN DEPTH IS LESS THAN 12 FEET, THE THICKNESS SHALL BE A MINIMUM OF 8 INCHES.
9. DRESS UP INTERIOR JOINTS OF PRECAST CATCH-BASIN AND OPENINGS AROUND THE PIPES WITH HYDRAULIC CEMENT.
10. IN PAVED AREAS, DRAIN HOUSEWEEP HOLES SHALL BE COVERED WITH FILTER FABRIC. FILTER FABRIC SHALL BE SECURED TO THE OUTSIDE OF STRUCTURE PRIOR TO BACKFILL
11. IN GRASSED AREAS, DRAIN HOUSEWEEP HOLES SHALL BE PLUGGED WITH HYDRAULIC CEMENT.

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: JUL 2004	CATCH BASIN TYPE "A"	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2005		STORM - 16



GENERAL NOTES:

1. INTERNAL MANHOLE CHIMNEY SEAL CONFORMING ASTM C-923 (CRETE OR APPROVED EQUAL (SANITARY AND COMBINED MANHOLES ONLY)
2. NEW FRAME AND LID (NEENAH): NEENAH R-1013-S-2000 FRAME NEENAH R-1013-S-2000 SELF SEALING LID
3. NEW FRAME AND LID (STANTON): NEENAH R-1013-S-2000 FRAME NEENAH R-1013-S-2000 LID

NOT TO SCALE

REV.	DATE		
DESIGN BY: RMS	DATE: JUL 2004	TYPICAL MANHOLE ADJUSTMENT	VILLAGE OF VILLA PARK
DRAWN BY: VV	DATE: JAN 2005		SANITARY - 02

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PREPARED FOR:
HAWTHORNE VILLA PARK LP
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BURR RIDGE, ILLINOIS 60527
(312) 235–6647

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REVISIONS

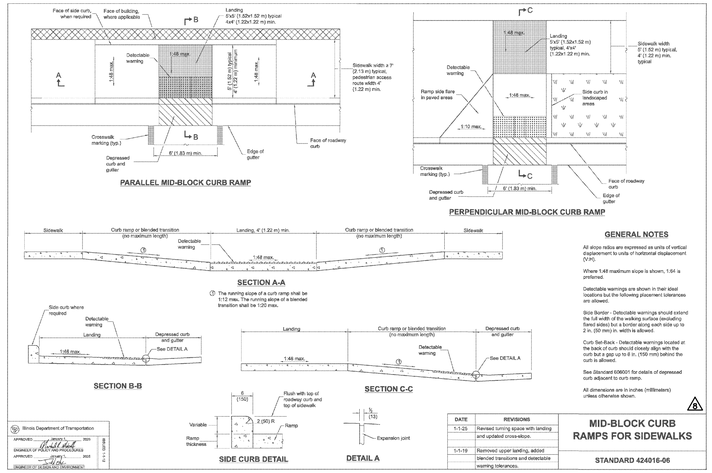
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	06–23–21/DDD	REVISED PER BUILDING LAYOUT (ALL)			
2	09–02–21/DDD	REVISED PER VILLAGE REVIEW DATED 07–23–2021			
3	09–29–21/BCD	REVISED PER IEPA REVIEW			
4	11–16–21/BCD	REVISED PER VILLAGE REVIEW DATED 11–12–2021			
5	09–29–25/BCD	REVISED PER VILLAGE REVIEW DATED 06–23–2025			

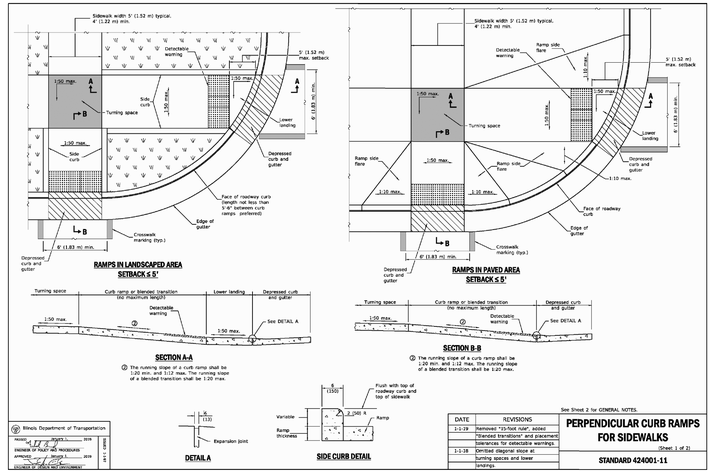
CONSTRUCTION DETAILS

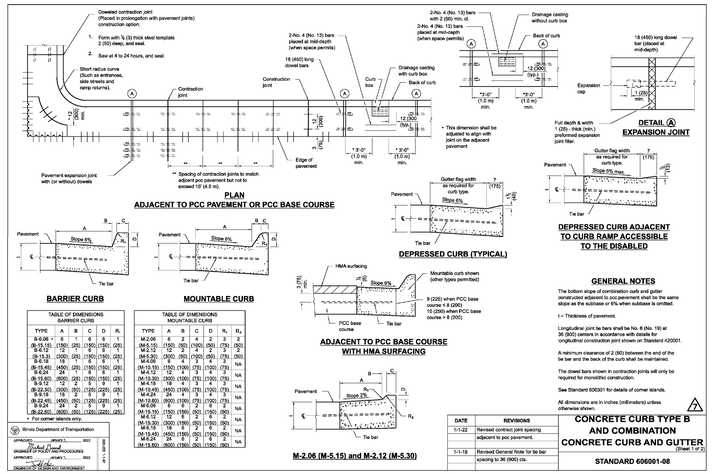
GARDEN STATION APARTMENTS

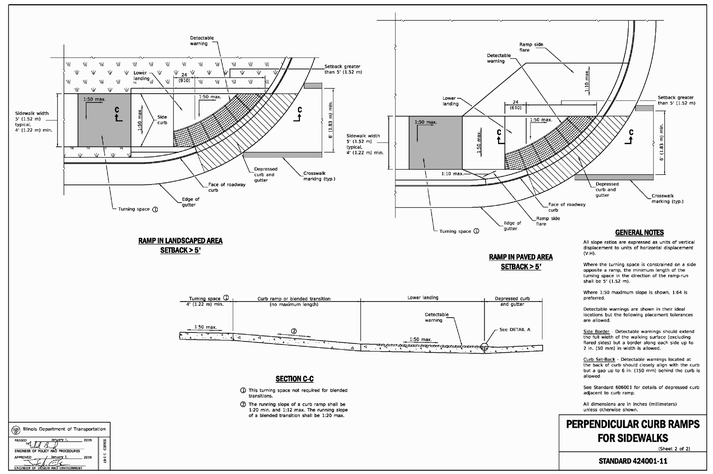
FILE NAME: DETAILS	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07–27–2020	SCALE: 1" = N.T.S.	12 of 13

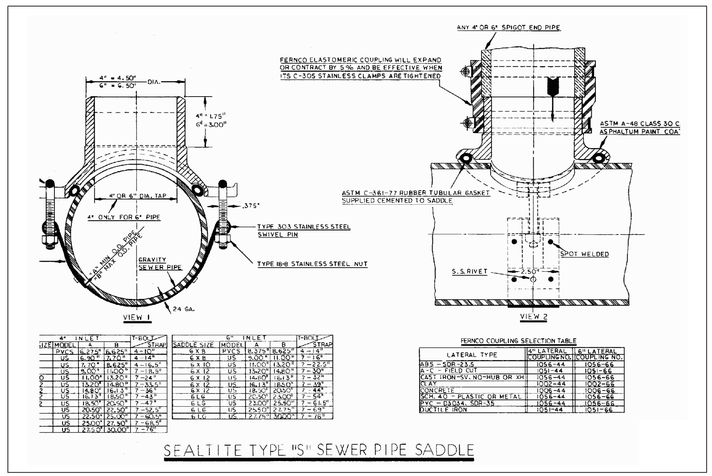
PLOT FILE CREATED: 10/30/2025 2:06 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/29/2025 11:13 AM BY BRANDON DRAWING PATH: P:\904351\DWG\ENGINEERING\FINAL DRAFTING\DETAILS.DWG

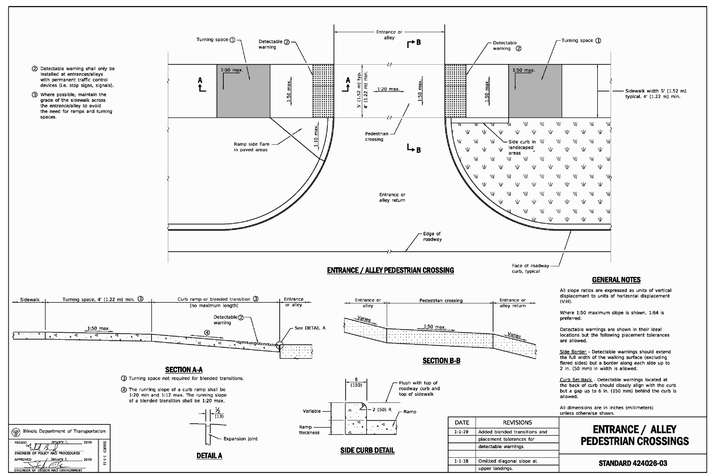












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REVISIONS
NO. | DATE | DESCRIPTION
3 | 09-29-21/BCD | REVISED PER IEPA REVIEW
2 | 09-29-25/BCD | REVISED PER VILLAGE REVIEW DATED 06-23-2025
1 | 10-31-25/BCD | REVISED PER VILLAGE REVIEW DATED 10-22-2025

CONSTRUCTION DETAILS
GARDEN STATION APARTMENTS

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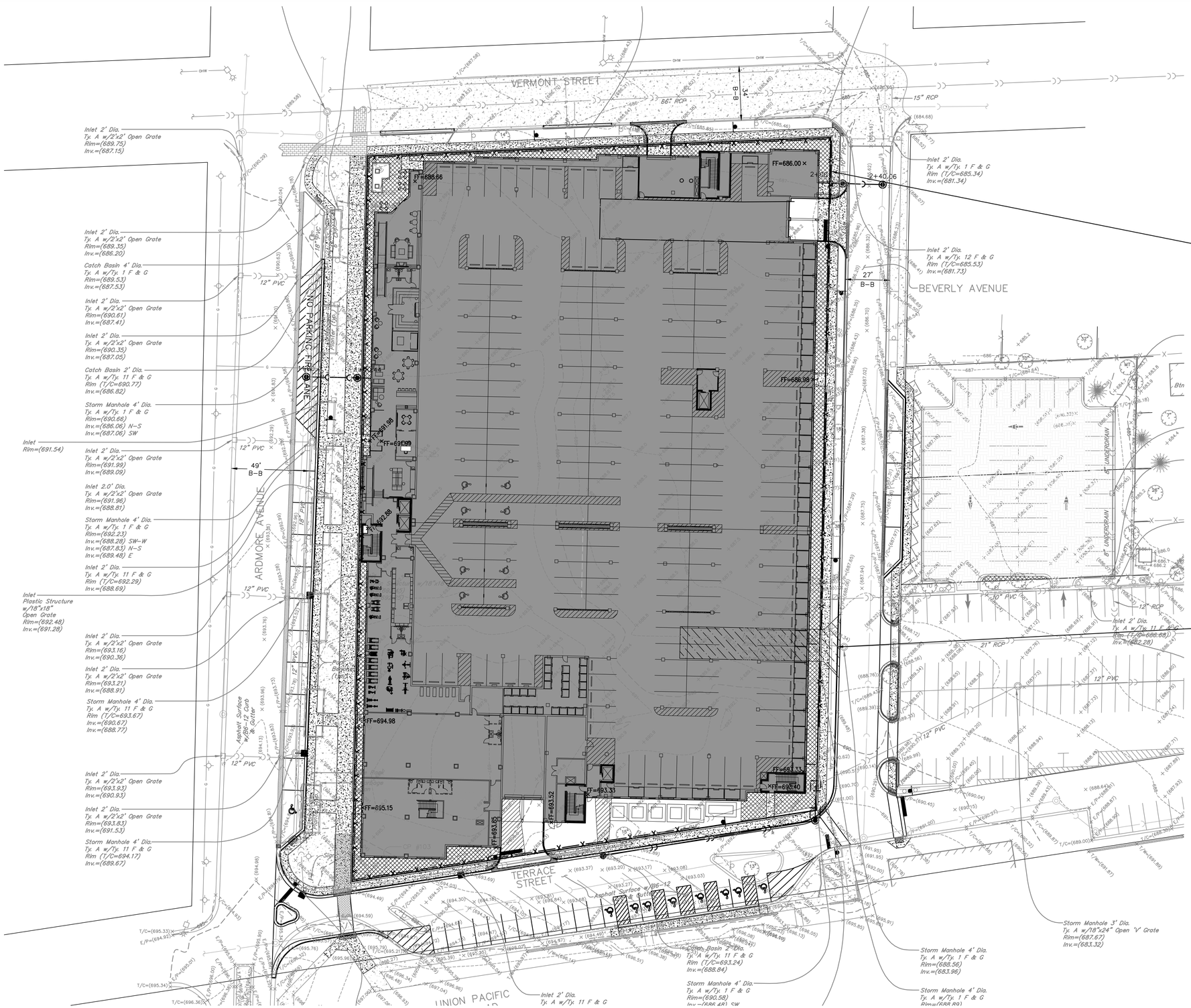
DIR: 904351 | DRN. BY: KMS | DATE: 07-27-2020 | SCALE: 1" = N.T.S.
SHEET NO. 13 of 13

PLOT FILE CREATED: 10/30/2025 2:08 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/29/2025 11:13 AM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\FINAL DRAFTING\DETAILS.DWG



⚠ VILLAGE OF VILLA PARK EROSION CONTROL NOTES

(Revised 8/7/08)

1. The General Contractor shall be responsible for the installation of all erosion control devices including, but not limited, silt fence around the construction limits, stone access drive and filter fabric protectors in all storm manholes and/or inlets per the Village's standard details. If there is no General Contractor, it shall be the responsibility of the excavation/grading contractor to install all soil erosion control devices.
2. All erosion control measures shall be maintained throughout construction.
3. The Contractor responsible for the installation of the erosion control devices shall make an inspection of the installation on a weekly basis or following a rainfall of ½-inch or more over a 24-hour period. A record of such inspections shall be kept onsite at all times until final acceptance of the work.
4. Any soil erosion control measures that are deemed necessary by the Village Engineer or any other authority having jurisdiction shall be implemented immediately by the Contractor.
5. All silt fence shall be installed and approved by the Village of Villa Park prior to construction.
6. All construction sites shall have a 10-feet wide x 6-inches deep stone access drive comprised of CA-1 stone. The length shall be a minimum of 50 feet unless otherwise approved by the Village Engineer. All access to and from the site shall be restricted to this construction entrance.
7. Pumping sediment-laden water into any stormwater facility either directly or indirectly without filtration is prohibited. Water removed from traps, basins and other water holding depressions or excavations must first pass through a sediment control and/or filtration device. When dewatering devices are used, discharge locations shall be protected from erosion.
8. Modifications to existing stormwater facilities shall be stabilized within 48 hours.
9. All storm drain inlets shall be protected by an appropriate sediment control measure when the area tributary to an inlet is disturbed.
10. All trenches, holes or other excavations required for utility installation should be back-filled and stabilized at the end of each working day. No excavation should be opened more than what can be stabilized by the end of the same day. If an excavation must be left unstabilized or opened overnight, soil erosion and safety protection measures shall be installed.
11. The surface of stripped or disturbed areas shall be permanently or temporarily stabilized within 7 days after final grade is reached or when left idle for more than 7 days. Temporary erosion and sediment control measures shall be maintained continuously until permanent soil erosion control measures have been adequately established.
12. All Special Management Areas shall, at a minimum, have a dual silt fence barrier of protection. Additional soil and sediment erosion control measures may be required to adequately protect these areas.
13. Stockpiles of soil or any other building material shall not be located in Special Management Areas.
14. If a stockpile is to remain in place for more than three days, then erosion and sediment control shall be provided for such stockpile.
15. All waste generated as a result of site development (including discarded building materials, concrete truck washout, chemicals, litter, sanitary waste or any other waste) shall be properly disposed of and be prevented from being carried off the site by either wind or water.
16. Any soil, mud or debris reaching a public or private roadway or sidewalk shall be removed immediately and transported to a controlled sediment disposal area.
17. All temporary erosion and sediment control measures shall be removed within 30-days after final stabilization is achieved with permanent soil stabilization measures. Trapped sediment and other disturbed soils resulting from temporary measures shall be properly disposed of, and the area permanently stabilized.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
○	◉	MANHOLE
○	●	CATCH BASIN
□	■	INLET
	●	CLEANOUT
	▭	SLOPE INLET BOX
⊣	⊣	HEADWALL
◁	◀	END SECTION
((	((	STORM SEWER
	▣	CATCH-ALL INLET BASKET
		TEMPORARY STRAW BALE DITCH CHECK
		SILT FENCE DITCH CHECK
		SILT FENCE WITH MAINTENANCE
		RIP-RAP
		AREAS TO BE SEEDED WITH BLANKET
		AREAS TO BE TOPSOIL STRIPPED, CLAY CUT
		TEMPORARY CONSTRUCTION ENTRANCE

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REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	06–23–21/DDD	REVISED PER BUILDING LAYOUT (ALL)			
2	09–02–21/DDD	REVISED PER VILLAGE REVIEW DATED 07–23–2021			
3	09–27–29/BCD	REVISED PER IEPA REVIEW			
4	09–29–25/BCD	REVISED PER VILLAGE REVIEW DATED 06–23–2025			

STORMWATER POLLUTION PREVENTION PLAN

GARDEN STATION APARTMENTS

FILE NAME: OVER SOILERO	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:
DIR: 904351	DRN. BY: KMS	DATE: 07–27–2020	SCALE: 1" = 30'

SHEET NO. ER1 of ER3

PLOT FILE CREATED: 10/30/2025 2:06 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/29/2025 12:41 PM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\FINAL DRAFTING\OVER SOILERO.DWG

STORMWATER POLLUTION PREVENTION PLAN

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE GENERAL NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

THE PERMITTEE MUST COMPLY WITH ALL CONDITIONS OF THE GENERAL PERMIT. ANY PERMIT NON-COMPLIANCE CONSTITUES A VIOLATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT AND CLEAN WATER ACT AND IS GROUNDS FOR ENFORCEMENT ACTION, FOR PERMIT TERMINATION, REVOCATION AND REISSUANCE OR MODIFICATION, OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION.

ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY WORK COMMENCING.

NO STOCKPILES ARE ALLOWED WITHIN THE LIMITS OF FLOODPLAIN, WETLANDS AND WETLAND BUFFER AREAS.

1. SITE DESCRIPTION

A. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

THE CONSTRUCTION OF SITE INFRASTRUCTURE IMPROVEMENTS TO SERVE A 7 STORY APARTMENT COMPLEX, INCLUDING GRADING OF THE SITE, STORM SEWERS AND SERVICES, SANITARY SEWERS AND SERVICES, WATER MAINS AND SERVICES, STREET PAVEMENTS, SIDEWALKS, STREET LIGHTING, EROSION AND SEDIMENTATION CONTROL MEASURES, AND VEGETATIVE STABILIZATION AND BEST MANAGEMENT PRACTICES.

B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

a. SOIL EROSION CONTROL MEASURES INSTALLATION.
b. SITE GRADING AND STOCKPILING OPERATIONS.
c. INSTALLATION OF SITE UTILITIES.
d. TOPSOIL PLACEMENT, FINE GRADING AND VEGETATIVE RESTORATION.

C. THE TOTAL AREA OF THE PROJECT IS ESTIMATED TO BE APPROXIMATELY 3 +/- ACRES. THE TOTAL AREA OF THE PROJECT ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES IS APPROXIMATELY 3 +/- ACRES.

D. THE ESTIMATED RUNOFF CURVE NUMBER OF THE PROJECT SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED IS 84. INFORMATION DESCRIBING THE SOILS AT THE SITE IS CONTAINED IN THE SOILS REPORT(S) FOR THE PROJECT ON FILE WITH THE OWNER/DEVELOPER.

E. THESE PLAN DOCUMENTS CONTAIN SITE MAP(S) INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES, AREAS OF MAJOR SOIL DISTURBANCE, THE LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE AND CONTROLS TO PREVENT OFF-SITE SEDIMENT TRACKING, THE LOCATION OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, LOCATION OF ON-SITE OR OFF-SITE SOIL STOCKPILING OR MATERIAL STORAGE, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORMWATER IS DISCHARGED TO A SURFACE WATER.

F. THE IMMEDIATE RECEIVING WATER IS FULTON-DOUGLAS GARDEN PARK DETENTION BASIN WHICH IS TRIBUTARY TO THE SALT CREEK.

2. CONTROLS

THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN 1.B. ABOVE. FOR EACH MEASURE DISCUSSED, THE CONTRACTORS AND SUB-CONTRACTORS WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH SUCH CONTRACTOR OR SUB-CONTRACTOR MUST SIGN THE REQUIRED CERTIFICATION ON THIS PLAN.

A. EROSION AND SEDIMENT CONTROLS

THE PERMITTEE SHALL DESIGN, INSTALL AND MAINTAIN EFFECTIVE EROSION CONTROLS AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. AT A MINIMUM, SUCH CONTROLS MUST BE DESIGNED, INSTALLED AND MAINTAINED TO:

a. CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION;

b. CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWRATES AND TOTAL STORM WATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAMBANK EROSION;

c. MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY THROUGH THE USE OF PROJECT PHASING OR OTHER APPROPRIATE TECHNIQUES;

d. MINIMIZE THE DISTURBANCE OF STEEP SLOPES;

e. MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. THE DESIGN, INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS MUST ADDRESS FACTORS SUCH AS THE AMOUNT, FREQUENCY, INTENSITY AND DURATION OF PRECIPITATION, THE NATURE OF RESULTING STORM WATER RUNOFF AND SOIL CHARACTERISTICS, INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE;

f. PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS, DIRECT STORM WATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORM WATER INFILTRATION, UNLESS INFEASIBLE;

g. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL;

h. MINIMIZE SEDIMENT TRACK-OUT. WHERE SEDIMENT HAS BEEN TRACKED-OUT FROM THE SITE ONTO PAVED ROADS, SIDEWALKS, OR OTHER PAVED AREAS OUTSIDE THE SITE, REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE SAME BUSINESS DAY IN WHICH THE TRACK-OUT OCCURS OR BY THE END OF THE NEXT BUSINESS DAY IF TRACK-OUT OCCURS ON A NON-BUSINESS DAY. REMOVE THE TRACK-OUT BY SWEEPING, SHOVELING, OR VACUUMING THESE SURFACES OR BY USING OTHER SIMILARLY EFFECTIVE MEANS OR SEDIMENT REMOVAL. HOSING OR SWEEPING TRACKED-OUT SEDIMENT INTO ANY STORMWATER CONVEYANCE, STORM DRAIN INLET, OR WATER OF THE U.S. IS PROHIBITED.

i. MINIMIZE DUST. ON AREAS OF EXPOSED SOILS, MINIMIZE THE GENERATION OF DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES.

B. STABILIZATION PRACTICES

THE STORM WATER POLLUTION PREVENTION PLAN SHALL INCLUDE A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE-SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS SHOULD ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICABLE AND THE DISTURBED PORTIONS OF THE SITE ARE STABILIZED. STABILIZATION PRACTICES MAY INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, STAGED OR STAGGERED DEVELOPMENT, AND OTHER APPROPRIATE MEASURES. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED, SHALL BE INCLUDED IN THE PLAN. STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS PROVIDED IN PARAGRAPHS (a) AND (b) BELOW:

a. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

b. ON AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD CAN BE USED. TEMPORARY STABILIZATION TECHNIQUES AND MATERIALS SHALL BE DESCRIBED IN THE SWPPP.

c. STABILIZATION IS NOT REQUIRED FOR EXIT POINTS AT LINEAR UTILITY CONSTRUCTION SITES THAT ARE ONLY EPISODICALLY AND FOR VERY SHORT DURATIONS OVER THE LIFE OF THE PROJECT, PROVIDED OTHER EXIT POINT CONTROLS ARE IMPLEMENTED TO MINIMIZE SEDIMENT TRACK-OUT.

THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, WILL BE IMPLEMENTED TO STABILIZE THE DISTURBED AREA OF THE SITE:

RIP-RAP
VEGETATIVE STABILIZATION
MULCH
EROSION CONTROL BLANKET-TEMPORARY AND PERMANENT
MINIMIZATION OF SOIL DISTURBANCE

C. STRUCTURAL PRACTICES

A DESCRIPTION OF STRUCTURAL PRACTICES UTILIZED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SUCH PRACTICES MAY INCLUDE SILT FENCES, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY OR PERMANENT SEDIMENT BASINS. STRUCTURAL PRACTICES SHOULD BE PLACED ON UPLAND SOILS TO THE DEGREE PRACTICABLE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA.

THE FOLLOWING DESIGN REQUIREMENTS APPLY TO SEDIMENT BASINS IF SUCH STRUCTURAL PRACTICES WILL BE INSTALLED TO REDUCE SEDIMENT CONCENTRATIONS IN STORM WATER DISCHARGES:

a. WHEN DISCHARGING FROM THE SEDIMENT BASIN, UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE IN ORDER TO MINIMIZE THE DISCHARGE.
b. PREVENT EROSION OF THE SEDIMENT BASIN USING STABILIZATION CONTROLS (E.G. EROSION CONTROL BLANKETS), AT THE INLET AND OUTLET USING EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES.
c. SEDIMENT BASINS SHALL BE DESIGNED TO FACILITATE MAINTENANCE, INCLUDING SEDIMENT REMOVAL FROM THE BASINS, AS NECESSARY.

THE FOLLOWING REQUIREMENTS APPLY TO PROTECTING STORM DRAIN INLETS:

a. INSTALL INLET PROTECTION MEASURES THAT REMOVE SEDIMENT FROM DISCHARGES PRIOR TO ENTRY INTO ANY STORM DRAIN INLET THAT CARRIES STORMWATER FLOW FROM THE SITE TO A WATER OF THE U.S., PROVIDED THAT AUTHORITY HAS BEEN GRANTED TO ACCESS THE STORM DRAIN.

b. CLEAN OR REMOVE AND REPLACE, THE PROTECTION MEASURES AS SEDIMENT ACCUMULATES, THE FILTER BECOMES CLOGGED, AND/OR PERFORMANCE IS COMPROMISED. WHENEVER THERE IS EVIDENCE OF SEDIMENT ACCUMULATION ADJACENT TO THE INLET PROTECTION MEASURE, REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE SAME BUSINESS DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL BY THE SAME BUSINESS DAY IS NOT FEASIBLE.

PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED AND MAINTAINED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA:

INLET PROTECTORS ON STORM DRAINS
SILT FENCE
SEDIMENT DIKES AND DITCH CHECKS
STABILIZED CONSTRUCTION ENTRANCE

D. USE OF CHEMICAL TREATMENTS

IDENTIFY THE USE OF ALL POLYMER FLOCCULANTS OR TREATMENT CHEMICALS AT THE SITE. DOSAGE OF TREATMENT CHEMICALS SHALL BE IDENTIFIED ALONG WITH ANY INFORMATION FROM ANY MATERIAL SAFETY DATA SHEET. DESCRIBE THE LOCATION OF ALL STORAGE AREAS FOR CHEMICALS. INCLUDE ANY INFORMATION FROM THE MANUFACTURER'S SPECIFICATIONS. TREATMENT CHEMICALS MUST BE STORED IN AREAS WHERE THEY WILL NOT BE EXPOSED TO PRECIPITATION. THE SWPPP MUST DESCRIBE PROCEDURES FOR USE OF TREATMENT CHEMICALS AND STAFF RESPONSIBLE FOR USE/APPLICATION OF TREATMENT CHEMICALS MUST BE TRAINED ON THE ESTABLISHED PROCEDURES.

USE OF POLYMER FLOCCULANTS IS NOT PROPOSED FOR THE SITE UNDER THIS PERMIT.

E. BEST MANAGEMENT PRACTICES FOR IMPAIRED WATERS

FOR ANY SITE WHICH DISCHARGES DIRECTLY TO AN IMPAIRED WATER IDENTIFIED ON THE AGENCY'S WEBSITE FOR 303(d) LISTING FOR SUSPENDED SOLIDS, TURBIDITY, OR SILTATION, THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE DESIGNED FOR A STORM EVENT EQUAL TO OR GREATER THAN A 25-YEAR 24-HOUR RAINFALL EVENT. IF REQUIRED BY FEDERAL REGULATIONS OR THE ILLINOIS URBAN MANUAL, THE STORM WATER POLLUTION PREVENTION PLAN SHALL ADHERE TO MORE RESTRICTIVE DESIGN CRITERIA. PLEASE REFER TO THE AGENCY'S WEBSITE.

F. POLLUTION PREVENTION

THE PERMITTEE SHALL DESIGN, INSTALL, IMPLEMENT, AND MAINTAIN EFFECTIVE POLLUTION PREVENTION MEASURES TO MINIMIZE THE DISCHARGE OF POLLUTANTS. AT A MINIMUM, SUCH MEASURES MUST BE DESIGNED, INSTALLED, IMPLEMENTED AND MAINTAINED TO:

a. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

b. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORM WATER. MINIMIZATION TO EXPOSURE IS NOT REQUIRED FOR ANY PRODUCT OR MATERIALS WHERE THE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHEN EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK OF STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

c. MINIMIZE THE EXPOSURE OF FUEL, OIL HYDRAULIC FLUID AND OTHER PETROLEUM PRODUCTS BY STORING IN COVERED AREAS OR CONTAINMENT AREAS.

d. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.

G. OTHER CONTROLS

a. WASTE DISPOSAL. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE UNITED STATES, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

b. THE PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

c. FOR CONSTRUCTION SITES THAT RECEIVE CONCRETE OR ASPHALT FROM OFF-SITE LOCATIONS, THE PLAN MUST IDENTIFY AND INCLUDE APPROPRIATE CONTROLS AND MEASURES TO REDUCE OR ELIMINATE DISCHARGES FROM THESE ACTIVITIES.

d. THE PLAN SHALL INCLUDE SPILL RESPONSE PROCEDURES AND PROVISIONS FOR REPORTING IF THERE ARE RELEASES IN EXCESS OF REPORTABLE QUANTITIES.

e. THE PLAN SHALL ENSURE THE REGULATED HAZARDOUS OR TOXIC WASTE MUST BE STORED AND DISPOSED IN ACCORDANCE WITH ANY APPLICABLE STATE AND FEDERAL REGULATIONS.

H. BEST MANAGEMENT PRACTICES FOR POST-CONSTRUCTION STORM WATER MANAGEMENT

DESCRIBE THE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. STRUCTURAL MEASURES SHOULD BE PLACED ON UPLAND SOILS TO THE DEGREE ATTAINABLE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA. THIS PERMIT ONLY ADDRESSES THE INSTALLATION OF STORM WATER MANAGEMENT MEASURES, AND NOT THE ULTIMATE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. PERMITTEES ARE RESPONSIBLE FOR ONLY THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE AND ARE NOT REPONSIBLE FOR MAINTENANCE AFTER STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY HAVE BEEN ELIMINATED FROM THE SITE.

a. WHILE NOT MANDATORY, IT IS ADVISABLE THAT THE PERMITTEE CONSIDER INCLUDING IN ITS STORM WATER POLLUTION PREVENTION PLAN AND DESIGN AND CONSTRUCTION PLANS METHODS OF POST-CONSTRUCTION STORM WATER MANAGEMENT TO RETAIN THE GREATEST AMOUNT OF POST-DEVELOPMENT STORM WATER RUNOFF PRACTICABLE, GIVEN THE SITE AND PROJECT CONSTRAINTS. SUCH PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: STORM WATER DETENTION STRUCTURES (INCLUDING WET PONDS); STORM WATER RETENTION STRUCTURES; FLOW ATTENUATION BY USE OF OPEN VEGETATED SWALES AND NATURAL DEPRESSIONS; INFILTRATION OF RUNOFF ONSITE; AND SEQUENTIAL SYSTEMS (WHICH COMBINE SEVERAL PRATICES). TECHNICAL INFORMATION ON MANY POST-CONSTRUCTION STORM WATER MANAGEMENT PRACTICES IS INCLUDED IN THE ILLINOIS URBAN MANUAL (2017). THE STORM WATER POLLUTION PREVENTION PLAN SHALL INCLUDE AN EXPLANATION OF THE TECHNICAL BASIS USED TO SELECT THE PRACTICES TO CONTROL POLLUTION WHERE POST-CONSTRUCTION FLOWS WILL EXCEED PREDEVELOPMENT LEVELS.

b. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G. MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).

c. UNLESS OTHERWISE SPECIFIED IN THE ILLINOIS URBAN MANUAL (2017), THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE DESIGNED FOR A STORM EVENT EQUAL TO OR GREATER THAN A 25-YEAR 24-HOUR RAINFALL EVENT.

PROVIDED BELOW IS A DESCRIPTION OF POST-CONSTRUCTION BEST MANAGEMENT PRACTICES (INCLUDING STORMWATER MANAGEMENT) THAT WILL BE IMPLEMENTED DURING CONSTRUCTION TO CONTROL POLLUTANTS IN STORMWATER DISCHARGE:

STORMWATER MANAGEMENT FACILITY(IES) TO ATTENUATE RUNOFF
WETLAND AND NATIVE VEGETATION TO PROMOTE FILTRATION AND INFILTRATION OF RUNOFF
OPEN VEGETATED SWALES
LANDSCAPED BUFFERS
USE OF CATCH BASINS FOR SEDIMENT REMOVAL

I. APPROVED STATE OR LOCAL PLANS

a. THE MANAGEMENT PRACTICES, CONTROLS AND OTHER PROVISIONS CONTAINED IN THE STORM WATER POLLUTION PREVENTION PLAN MUST BE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS URBAN MANUAL (2017). CONSTRUCTION ACTIVITES WHICH DISCHARGE STORM WATER MUST INCLUDE IN THEIR STORM WATER POLLUTION PREVENTION PLAN PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SEDIMENT AND EROSION CONTROL PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION CONTROL PLANS OR SITE PERMITS OR STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI TO BE AUTHORIZED TO DISCHARGE UNDER THIS PERMIT, INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT. THE PLANS SHALL INCLUDE ALL REQUIREMENTS OF THIS PERMIT AND INCLUDE MORE PROTECTIVE STANDARDS REQUIRED BY AN LOCAL APPROVAL. THIS PROVISION DOES NOT APPLY TO PROVISIONS OF MASTER PLANS, COMPREHENSIVE PLANS, NO-ENFORCEABLE GUIDELINES OR TECHNICAL GUIDANCE DOCUMENTS THAT ARE NOT IDENTIFIED IN A SPECIFIC PLAN OR PERMIT THAT IS ISSUED FOR THE CONSTRUCTION SITE.

b. DISCHARGERS SEEKING ALTERNATIVE PERMIT REQUIREMENTS ARE NOT AUTHORIZED BY THIS PERMIT AND SHALL SUBMIT AN INDIVIDUAL PERMIT APPLICATION IN ACCORDANCE WITH 40 CFR 122.26 AT THE ADDRESS INDICATED IN PART II.D (WHERE TO SUBMIT) OF THIS PERMIT, ALONG WITH A DESCRIPTION OF WHY REQUIREMENTS IN APPROVED LOCAL PLANS OR PERMITS SHOULD NOT BE APPLICABLE AS A CONDITION OF AN NPDES PERMIT.

J. NATURAL BUFFERS

FOR ANY STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN 50 FEET OF WATER OF THE UNITED STATES, EXCEPT FOR ACTIVITIES FOR WATER-DEPENDENT STRUCTURES AUTHORIZED BY A SECTION 404 PERMIT, THE PERMITTEE SHALL:

a. PROVIDE A 50-FOOT UNDISTURBED NATURAL BUFFER BETWEEN THE CONSTRUCTION ACTIVITY AND THE WATERS OF THE UNITED STATES; OR

b. PROVIDE ADDITIONAL EROSION AND SEDIMENT CONTROLS WITH THAT AREA.

3. MAINTENANCE

A. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO MAINTAIN IN GOOD AND EFFECTIVE OPERATING CONDITIONS, ALL EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BEST MANAGEMENT PRACTICES, INCLUDING VEGETATION AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN.

B. WHERE A BASIN HAS BEEN INSTALLED TO CONTROL SEDIMENT DURING CONSTRUCTION ACTIVITIES, THE PERMITTEES SHALL KEEP THE BASIN(S) IN EFFECTIVE OPERATING CONDITION AND REMOVE ACCUMULATED SEDIMENT AS NECESSARY. SEDIMENT SHALL BE REMOVED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL (2017) OR MORE FREQUENTLY. MAINTENANCE OF ANY SEDIMENT BASIN SHALL INCLUDE A POST CONSTRUCTION CLEAN OUT OF ACCUMULATED SEDIMENT IF THE BASIN IS TO REMAIN IN PLACE.

OTHER EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE MAINTAINED AND CLEANED AS NECESSARY TO KEEP STRUCTURE(S) IN EFFECTIVE OPERATING CONDITION, INCLUDING REMOVAL OF EXCESS SEDIMENT AS NECESSARY.

FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN IN GOOD AND EFFECTIVE OPERATING CONDITION, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN:

a. STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCES(S) SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. ANY SEDIMENT TRACKED ONTO A STREET SHALL BE REMOVED IMMEDIATELY.

b. VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTERS, ETC. SHALL BE MAINTAINED PERIODICALLY AND SUPPLY ADEQUATE WATERING AND FERTILIZER TO MAINTAIN A HEALTHY STAND OF VEGETATION. THE VEGETATIVE COVER SHALL BE REMOVED AND REESTABLISHED AS NECESSARY.

c. SILT FILTER FENCE: SILT FENCE SHALL BE MAINTAINED IN GOOD CONDITION. DAMAGED SILT FILTER FENCE SHALL BE REPAIRED OR REPLACED TO MEET THE STANDARDS INCLUDED HEREIN.

d. SILT DIKES AND DITCH CHECKS: THESE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING CONDITION THROUGHOUT CONSTRUCTION. INSPECT FREQUENTLY TO VERIFY THAT THE TEMPORARY MEASURE IS SECURED TO THE GROUND AND REMOVE SEDIMENT ACCUMULATION TO MAINTAIN PROPER FUNCTION.

e. INLET PROTECTORS: INLET PROTECTORS (SILT FENCE OR SILT BASKET) SHALL BE INSPECTED FREQUENTLY AND SEDIMENT ACCUMULATION SHALL BE REMOVED TO MAINTAIN PROPER FUNCTION. DAMAGED SILT FENCE OR FILTER FABRIC SHALL BE REPLACED AS NECESSARY.

4. INSPECTIONS

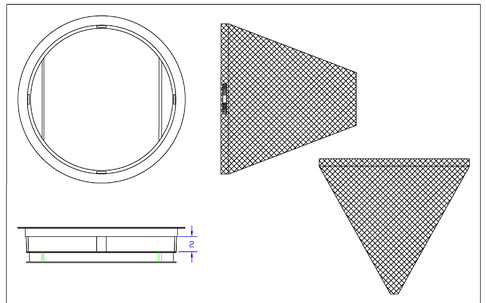
QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY THAT IS 0.50 INCHES OR GREATER. QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER (P.E.), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSW), A CERTIFIED STORMWATER INSPECTOR (CSI) OR OTHER KNOWLEDGEABLE PERSON WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES. AREAS INACCESSIBLE DURING INSPECTIONS DUE TO FLOODING OR OTHER UNSAFE CONDITIONS SHALL BE INSPECTED WITHIN 72 HOURS OF BECOMING ACCESSIBLE.

a. INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS (WHEN GROUND AND/OR AIR TEMPERATURES ARE AT OR BELOW 32 DEGREES FAHRENHEIT). WEEKLY INSPECTIONS WILL RECOMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS A 0.50 INCHES OR GREATER RAIN EVENT, OR A DISCHARGE DUE TO SNOWMELT OCCURS.

b. DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION AND ALL AREAS WHERE STORMWATER TYPICALLY FLOWS WITHIN THE SITE SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. ALL LOCATIONS WHERE STABILIZATION MEASURES HAVE BEEN IMPLEMENTED SHALL BE OBSERVED TO ENSURE THAT THEY ARE STILL STABILIZED. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

c. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH PART IV.D.1 (SITE DESCRIPTION) OF THIS PERMIT AND THE POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PART IV.D.2 (CONTROLS) OF THIS PERMIT SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION TO MINIMIZE THE POTENTIAL FOR SUCH DISCHARGES. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN AND POLLUTION PREVENTION CONTROL MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

d. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH B ABO

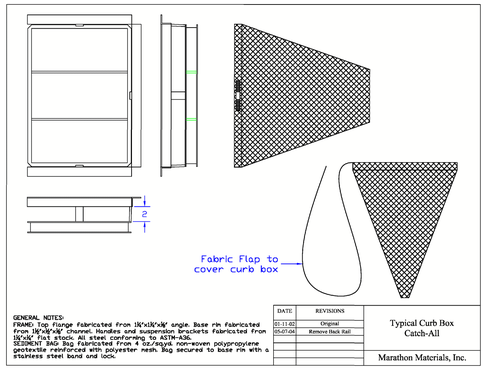


GENERAL NOTES:
FRAME: Top flange fabricated from 1¼"x1¼"x⅛" angle. Base rin fabricated from 1¼"x⅛"x⅛" channel. Handles and suspension brackets fabricated from 1¼"x¼" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sqyd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rin with a stainless steel band and lock.

DATE	REVISIONS
01-13-021	Original

Typical Round Catch-All

Marathon Materials, Inc.



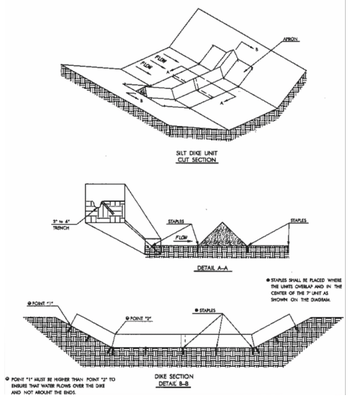
GENERAL NOTES:
FRAME: Top flange fabricated from 1¼"x1¼"x⅛" angle. Base rin fabricated from 1¼"x⅛"x⅛" channel. Handles and suspension brackets fabricated from 1¼"x¼" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sqyd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rin with a stainless steel band and lock.

DATE	REVISIONS
01-13-021	Original
05-07-041	Remove Hack Rail

Typical Curb Box Catch-All

Marathon Materials, Inc.

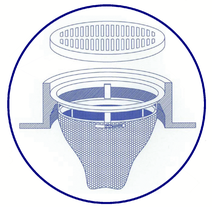
TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH



Catch-All

Inlet Protector

Custom fitted to virtually any inlet casting



INSTALLED COMPLETELY BELOW THE GRADE

MMI

Marathon Materials, Inc.
25533 W. Schultz Street
Plainfield, IL 60544
(800) 983-9493

Suggested Maintenance Catch-All Inlet Protector

The frequency and degree of maintenance required is dependent on site conditions and rainfall. Certain types of soil and run-off laden with hydrocarbons, (oil, solvents, etc.), tend to "*silt-up*" the fabric bags more quickly than others.

Generally, the bags can be emptied, inverted, washed, and re-used throughout an entire project. They may also be vacuumed. The bag must be replaced if it is severely worn or torn.

GUIDELINES FOR CONSTRUCTION SITES

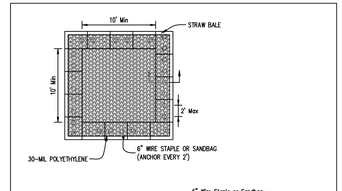
1. Inspect the bag at least every 2 weeks – Clean, if needed
2. Inspect the bag every time there is rainfall totaling 1 or more inches – Clean, if needed
3. Replace the bag if it has a hole in it
4. Replace the bag if it appears clean but won't pass water

Suggested Maintenance
Catch-All HR

Typically, the Catch-All HR is installed in a paved parking lot or maintenance yard. The degree and frequency of maintenance required is generally far less than for Catch-Alls installed at construction sites.

GUIDELINES FOR PARKING LOTS & MAINTENANCE YARDS

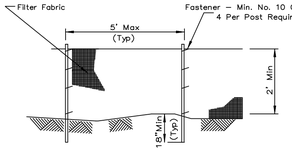
1. Inspect the bag at least once per month – Clean, if needed
2. Inspect the bag every time there is rainfall totaling more than two inches – Clean, if needed
3. Replace the bag every 6 months; More often for harsh environments
4. Replace the bag after any oil, coolant, or solvent spill
5. Replace the bag if it has a hole in it
6. Replace the bag if it appears clean but won't pass water



NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

TEMPORARY CONCRETE WASHOUT FACILITY – STRAW BALE

SILT FENCE PLAN

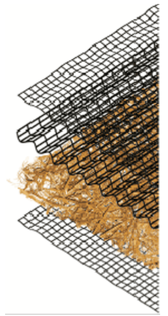


NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross–sectional area of 3.0 sq. in.

Vmax3 SC250 (INSTALL PER MANUFACTURER INSTRUCTIONS)

Permanent Turf Reinforcement Mat

Vmax3 SC250 is constructed of a permanent, high–strength, three–dimensional matting structure that incorporates a straw/coconut fiber matrix. The straw/coconut fiber matrix enhances the permanent matting component's initial mulching and erosion control performance for up to 24 months. SC250 provides extended–term, pre–vegetated erosion protection and permanent turf reinforcement in a wide range of applications, including severe slopes, medium– to high–flow channels, and stream banks. It is proven in extensive laboratory and field research to increase the shear resistance of vegetation up to 10 lbs/ft2 (480 Pa). With the toughest unreinforced grasses typically failing at shear stress levels of 3.7 lbs/ft2, the high–performance SC250 more than doubles the shear resistance of vegetation. This enables SC250 to be used in applications where rock riprap and concrete were once specified



Top Net
Polypropylene
5.0 lbs/1,000 ft2
(2.44 kg/100 m2) approx. wt.

Center Net
Polypropylene, corrugated
24.0 lbs/1,000 ft2
(11.7 kg/100 m2) approx. wt.

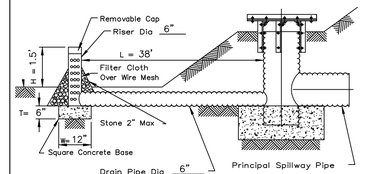
Matrix Material
70% agricultural straw
0.35 lbs/yd2
(0.19 kg/m2)
30% coconut fiber
0.15 lbs/yd2
(0.08 kg/m2)

Bottom Net
Polypropylene
5.0 lbs/1,000 ft2
(2.44 kg/100 m2) approx. wt.

Thread
Permanent

SEDIMENT BASIN DEWATERING DEVICE

(TEMPORARY)

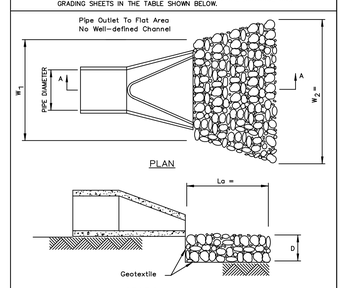


SECTION ON CENTERLINE

NOTES:
1. Slotted inlets shall be fabricated from corrugated metal or smooth steel.
2. Slots shall be cut cleanly and deburred. Ends of slots may be round or square.
3. Gravel filter, if used, shall be pit run sand and gravel with a maximum particle diameter of 2".
4. Fabricated or standard elbow; fabricated or standard tee with the pipe or plug in upstream end; or standard tee with one end embedded in concrete.
5. Thirty 1" diameter holes per foot of riser may be substituted for the 1"x 4" slots for 6" diameter risers.
6. Drain pipe shall be the same material and gauge as the principle spillway pipe.
7. Slot spacing and size shall be as shown on standard drawing IL–580.
8. Coupling bands shall be as shown on standard drawing IL–580.

PIPE OUTLET TO FLAT AREA*

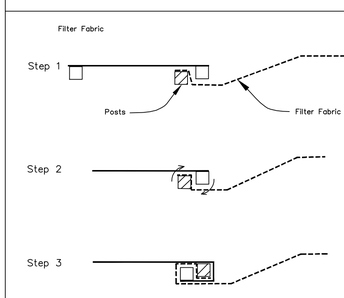
*ALL OTHER FLARED END PIPE OUTLETS INDICATED WITH RIP–RAP SHALL PROVIDE THE AREA OF RIP RAP CALLED OUT ON THE DRAINAGE AND GRADING SHEETS IN THE TABLE SHOWN BELOW.



PIPE OUTLET DIAMETER (IN)	LENGTH La (FT)	WIDTH W1 (FT)	WIDTH W2 (FT)	DEPTH d (IN)	ROCK GRADATION
12	19	3.0	7.0	15	RR-3
15	12	3.0	8.5	15	RR-3
18	14	4.5	9.9	15	RR-3
21	15	5.3	10.8	15	RR-3
24	16	6.0	11.6	15	RR-3
27	17	6.8	12.5	15	RR-3
30	18	7.5	13.3	20	RR-4
36	20	9.0	15.0	20	RR-4
42	22	10.5	16.7	20	RR-4
48	24	12.0	18.4	20	RR-4
54	26	13.5	21.3	20	RR-4

NOTES:
1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class , or II , III
2. The rock riprap shall shall meet the IDOT requirements for the following gradation: RR, quality stone dumped riprap.
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

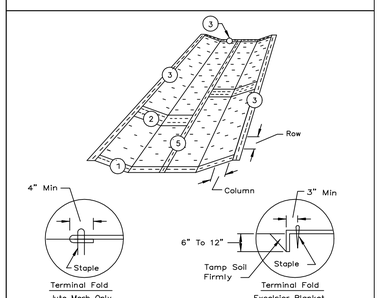
SILT FENCE



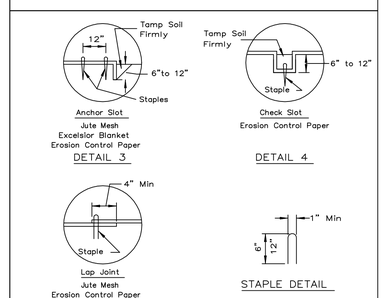
ATTACHING TWO SILT FENCES

NOTES:
1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Drive both posts a minimum of 18 inches into the ground and bury the flap.

EROSION BLANKET PLAN



EROSION BLANKET PLAN



NOTES:
1. On erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. Slopes of 6% or more, shall be spaced so that one occurs within each 25'.
2. Staples to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4'x 225' roll of material and 125 staples are required per 4'x 150' roll of material.
3. Erosion control material shall be placed loosely over ground surface. Do not stretch.
4. All terminal ends and transverse laps shall be stapled at approximately 12" intervals.

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PREPARED FOR:
HAWTHORNE VILLA PARK LP
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235–6647

PREPARED BY:
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REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

STORMWATER POLLUTION PREVENTION PLAN DETAILS

GARDEN STATION APARTMENTS

FILE NAME: OVER SOILERO	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO. ER3 of ER3
DIR: 904351	DRN. BY: KMS	DATE: 07–27–2020	SCALE: 1" = N.T.S.	

PLOT FILE CREATED: 10/30/2025 2:08 PM BY BRANDON DAVID DRAWING LAST SAVED: 10/29/2025 12:41 PM BY BRANDON DRAWING PATH: P:\904351\CIVIL\ENG\DRAWINGS\FINAL DRAFTING\OVER SOILERO.DWG

Final Landscape Plan

GARDEN STATION APARTMENTS

Villa Park, Illinois

January 12, 2026

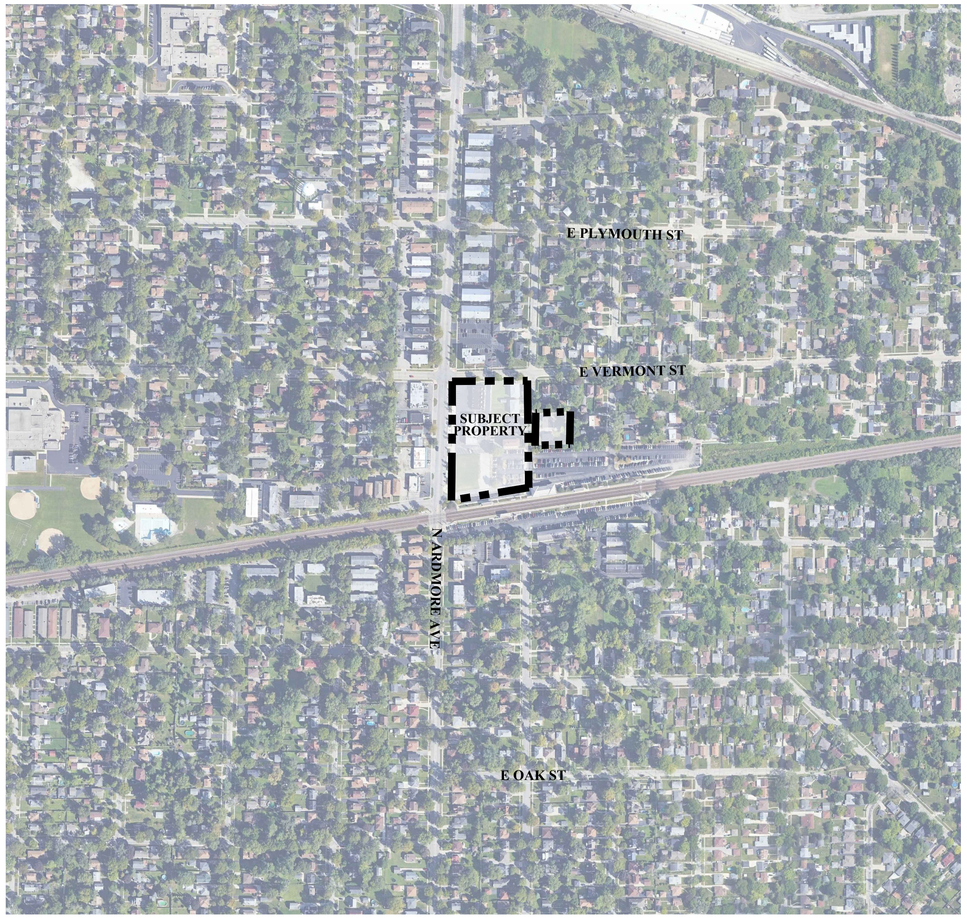
CONSULTANTS:

LANDSCAPE ARCHITECT:

GARY R. WEBER ASSOCIATES, INC
402 W. LIBERTY DRIVE
WHEATON, ILLINOIS 60187

CONSULTANT:

CEMCON LTD.
2280 WHITE OAK CIRCLE, SUITE 100
AURORA, ILLINOIS 60502



LOCATION MAP

SCALE: 1"=300'

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
L1.0	COVER SHEET
L1.1	OVERALL LANDSCAPE PLAN
L1.2	TREE PRESERVATION PLAN
L1.3	LANDSCAPE SPECIFICATIONS

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PLANT LIST

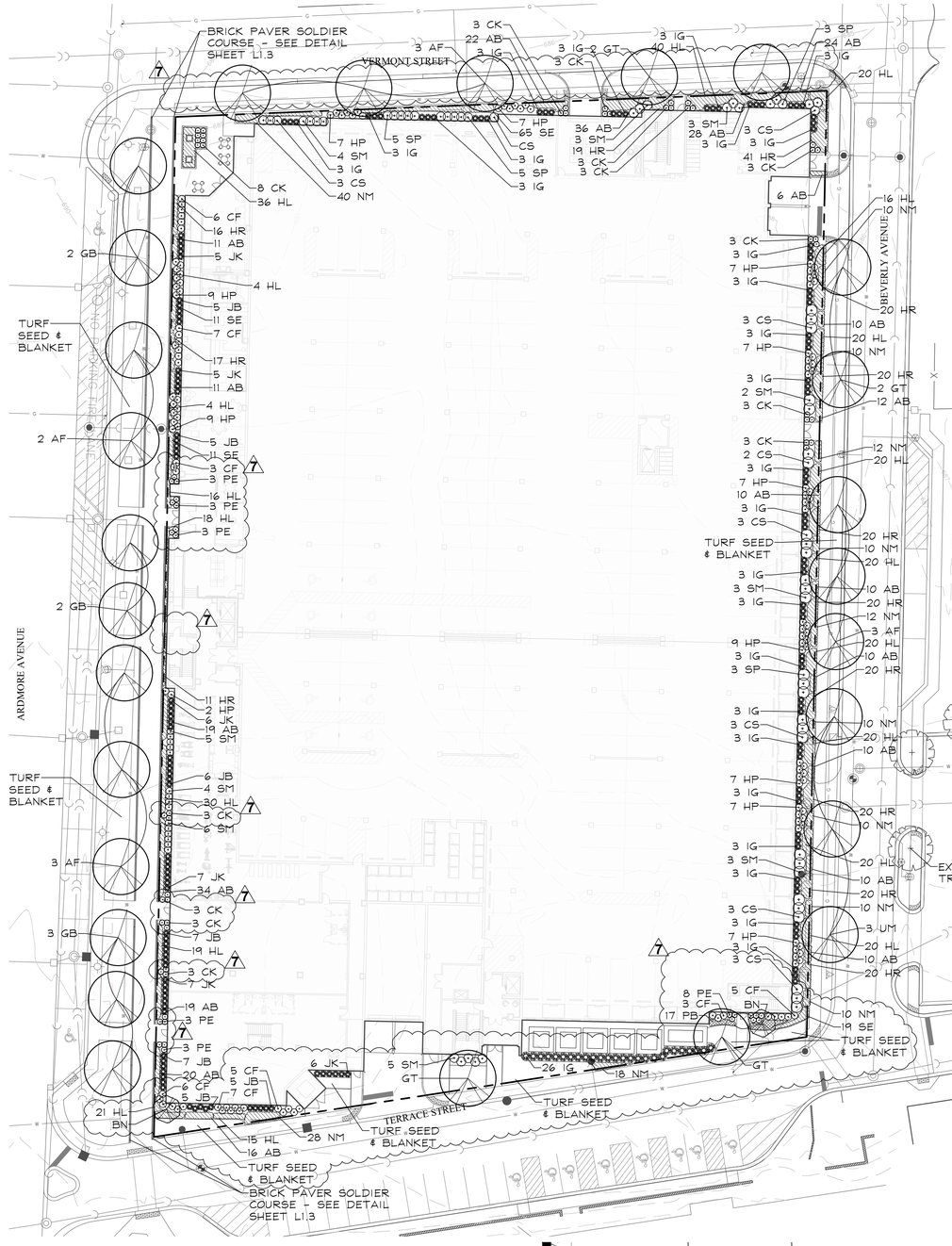
Key	Qty	Botanical/Common Name	Size	Remarks
		SHADE TREES		
AF	11	Acer x freemanii 'Marmo' MARMO FREEMAN MAPLE	2 1/2" Cal. B&B	
GT	6	Gleditsia triacanthos var. inermis 'Skycole' SKYLINE HONEYLOCUST	2 1/2" Cal. B&B	
GB	7	Ginkgo biloba GINKGO TREE	2 1/2" Cal. B&B	Male only
UM	3	Ulmus 'Morton Glossy' TRIUMPH ELM	2 1/2" Cal. B&B	
		ORNAMENTAL TREES		
BN	2	Betula nigra 'Shiloh Splash' SHILOH SPLASH RIVER BIRCH	6' Ht.	Multi-stem
		DECIDUOUS SHRUBS		
CS	27	Cornus sericea 'Baileyi' BAILEY'S REDTWIG DOGWOOD	36" Tall B&B	5' O.C.
CF	23	Cornus sericea 'Farrow' ARCTIC FIRE REDTWIG DOGWOOD	24" Tall	3' O.C.
HP	85	Hydrangea paniculata 'SMHPLQF' LITTLE QUICK FIRE HYDRANGEA	24" Tall B&B	3' O.C.
SM	33	Syringa meyeri 'Palabin' DWARF KOREAN LILAC	24" Tall B&B	4' O.C.
SP	16	Syringa patula 'Miss Kim' MISS KIM LILAC	24" Tall B&B	4' O.C.
		EVERGREEN SHRUBS		
JK	36	Juniperus chinensis 'Kallays Compact' KALLAYS COMPACT PFITZER JUNIPER	24" Wide GALLON	4' O.C.
JB	40	Juniperus conferta 'Blue Pacific' BLUE PACIFIC JUNIPER	24" Wide GALLON	4' O.C.
IG	104	Ilex glabra 'Chamzin' NORDIC INKBERRY	24" Wide GALLON	4' O.C.
		PERENNIALS & ORNAMENTAL GRASSES		
AB	328	Allium 'Summer Beauty' SUMMER BEAUTY ONION	#1	18" O.C.
CK	44	Calamagrostis x acutiflora 'Karl Foerster' FEATHER REED GRASS	#1	30" O.C.
HL	382	Hemerocallis 'Little Wine Cup' LITTLE WINE CUP DAYLILY	#1	18" O.C.
HR	261	Hemerocallis 'Rosy Returns' ROSY RETURNS DAYLILY	#1	18" O.C.
NM	180	Nepeta racemosa 'Walker's Low' WALKER'S LOW CATMINT	#1	18" O.C.
PB	17	Pennisetum alopecuroides 'Burgundy Bunny' BURGUNDY BUNNY FOUNTAIN GRASS	#1	24" O.C.
PE	25	Pennisetum alopecuroides 'Hameln' DWARF FOUNTAIN GRASS	#1	24" O.C.
SE	106	Sedum 'Autumn Joy' AUTUMN JOY SEDUM	#1	18" O.C.
		MISC. MATERIALS		
	89	SHREDDED HARDWOOD MULCH	C.Y.	
	.26	TURF SEED & BLANKET	AC.	

SEEDING LEGEND

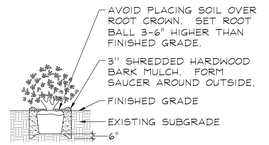
Key	Qty	Description
	518 S.F.	LOW PROFILE PRAIRIE SEED MIX

GENERAL LANDSCAPE NOTES

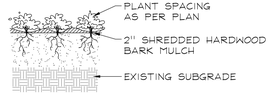
1. Contractor shall verify underground utility lines and is responsible for any damage.
2. Contractor shall verify all existing conditions in the field prior to construction and shall notify landscape architect of any variance.
3. Material quantities shown are for contractors convenience only. The Contractor must verify all material and supply sufficient materials to complete the job per plan.
4. The landscape architect reserves the right to inspect trees and shrubs either at place of growth or at site before planting, for compliance with requirements of variety, size and quality.
5. Work shall conform to American Standard for Nursery Stock, State of Illinois Horticultural Standards, and Local Municipal requirements.
6. Contractor shall secure and pay for all permits, fees, and inspections necessary for the proper execution of this work and comply with all codes applicable to this work.
7. See General Conditions and Specifications for landscape work for additional requirements.



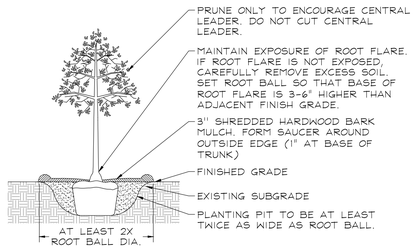
PLANTING DETAILS



DECIDUOUS AND EVERGREEN SHRUBS
NOT TO SCALE



PERENNIALS AND GROUNDCOVERS
NOT TO SCALE



DECIDUOUS TREES
NOT TO SCALE

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630-862-2100

GARDEN STATION APARTMENTS

VILLA PARK, IL

OVERALL LANDSCAPE PLAN

7	01.12.2026
6	11.04.2025
5	10.01.2025
4	04.17.2025
3	12.01.2022
2	10.12.2022
1	06.15.2022

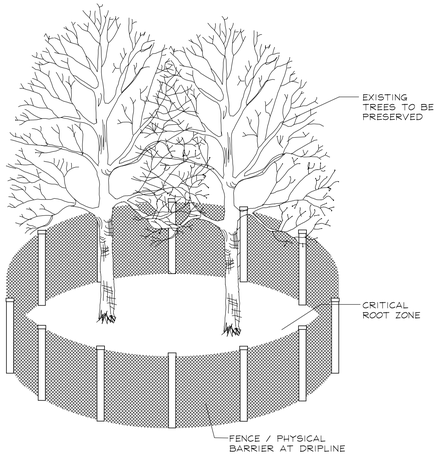
REVISIONS

DATE	06.06.2022
PROJECT NO.	HDC2201
DRAWN	DHS
CHECKED	MGM

SHEET NO.

L1.1

Know what's below. Call before you dig.

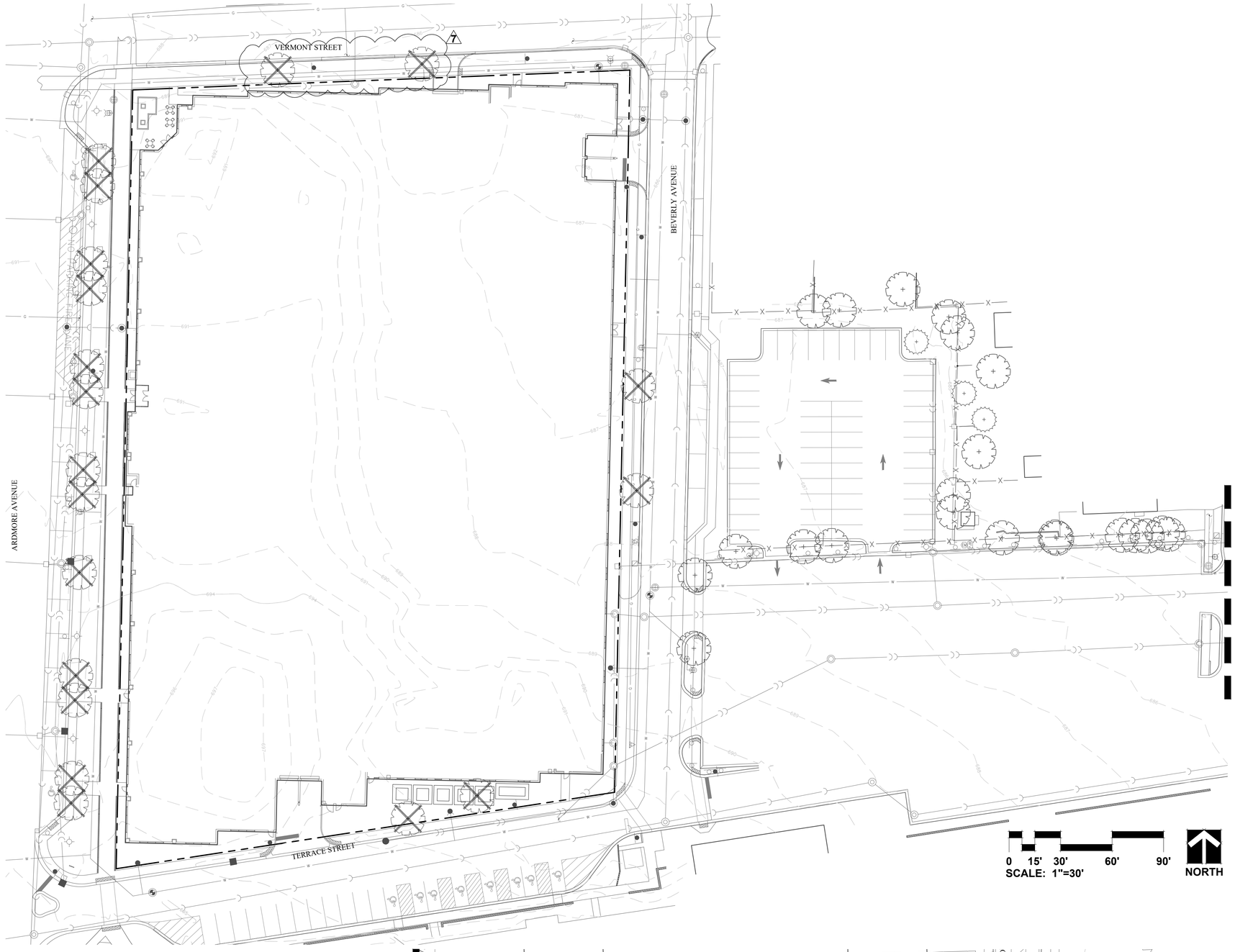


TREE PRESERVATION DETAIL

(NOT TO SCALE)
SEE NOTES

TREE PRESERVATION NOTES

1. Property line shall be located and staked by a professional land surveyor prior to tree removal.
2. 48'' high snow fence or wood barriers shall extend to the dripline of the tree or tree mass whenever possible, shall be installed before construction begins, and should not be removed until the completion of construction.
3. Contractor shall take extreme care to protect the root system of existing trees. Should root pruning be necessary it shall not exceed 25% of the tree's root system and shall be done in accordance with recognized horticulture practices under the supervision of a professional arborists, Landscape Architect or Horticulturist.
4. All accidental damage to existing trees that are to be preserved shall be promptly treated as required in accordance with recognized horticultural practices and the instructions of the professional Arborist, Landscape Architect or Horticulturist.
5. Broken or badly bruised branches shall be removed with a clean cut. If recommended by the professional Arborist, Landscape Architect or Horticulturist.
6. Care shall be exercised by the contractors to protect all overhead limbs and branches from damage by contact with material, machinery or equipment and by damage from engine exhaust.
7. Contractors shall protect trees and vegetation against spills or discharge of fuels,lubricating oils, hydraulic fluids, anti-freeze and coolants, calcium chloride, lime and all other similar hydrocarbons, organic chemicals, and other materials which can be harmful.
8. When underground utilities are proposed within 5' of a preserved tree trunk, they must be augered if possible.



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L1.2

Know what's below. Call before you dig.

XREFS:
PLOT CONFIG:

LANDSCAPE WORK PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

The work shall consist of furnishing, transporting and installing all seeds, plants and other materials required for:

1. The establishment of trees, shrubs, perennial, annual and lawn areas as shown on Landscape Plan;
2. The provision of post-planting management as specified herein;
3. Any remedial operations necessary in conformance with the plans as specified in this document;
4. Permits which may be required.

1.2 QUALITY ASSURANCE

A. Work shall conform to State of Illinois Horticultural Standards and local municipal requirements.

B. Quality Control Procedures:

1. Ship landscape materials with certificates of inspection as required by governmental authorities. Comply with governing regulations applicable to landscape materials.

2. Do not make substitutions. If specified landscape material is not obtainable, submit to Landscape Architect proof of non-availability and proposal for use of equivalent material.

3. Analysis and Standards: Package standard products with manufacturers certified analysis.

1.3 SUBMITTALS

A. Planting Schedule

Submit three (3) copies of the proposed planting schedule showing dates for each type of planting

B. Maintenance Instruction - Landscape Work

Submit two (2) copies of typewritten instructions recommending procedures to be established by the Owner for the maintenance of landscape work for one full year. Submit prior to expiration of required maintenance periods.

Instructions shall include: watering, fertilizing, spraying, mulching and pruning for plant material and trimming groundcover. Instructions for watering, fertilizing and mowing grass areas shall be provided ten (10) days prior to request for inspection for final acceptance. Landscape Architect shall receive copies of all instructions when issued.

C. Submit two (2) copies of soil test of existing topsoil with recommendations for soil additive requirement to Landscape Architect for review and written approval.

D. Submit two (2) samples of shredded hardwood bark mulch, erosion control blankets, and all other products and materials as specified on plans to Landscape Architect for review and written approval.

E. Nursery packing lists indicating the species and quantities of material installed must be provided to the Owner and/or City upon request.

1.4 JOB CONDITIONS

A. Examine and evaluate grades, soils and water levels. Observe the conditions under which work is to be performed and notify Landscape Architect of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in an acceptable manner.

B. Utilities: Review underground utility location maps and plans; notify local utility location service; demonstrate an awareness of utility locations; and certify acceptance of liability for the protection of utilities during course of work. Contractor shall be responsible for any damage to utilities or property.

C. Excavation: When conditions detrimental to plant growth are encountered such as rubble fill, adverse drainage conditions or obstructions, notify Landscape Architect before planting.

1.5 GUARANTEES

A. Guarantee seeded and sodded areas through the specified maintenance period and until final inspection.

B. Guarantee trees, shrubs, groundcover and perennials for a period of one year after date of acceptance against defects including death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others or unusual phenomena or incidents which are beyond Landscape Installer's control.

LANDSCAPE WORK PART 2 - PLANT MATERIALS

2.1 LAWN SOD

Provide strongly rooted sod, not less than two (2) years old and free of weeds and undesirable native grasses. Provide only sod capable of growth and development when planted (viable, not dormant) and in strips not more than 18" wide x 4' long. Provide sod composed of a 5-way blend of Kentucky Bluegrass such as: Midnight, Allure, Viva, Washington, Liberty.

2.2 LAWN SEED MIXTURE

Grass Seed: Provide fresh, clean, new crop seed complying with the tolerance for purity and germination established by the Official Seed Analysts of North America. Provide seed of the grass species, proportions and maximum percentage of weed seed, as specified.

A. Lawn Seed Mixture - 5 lbs. / 1,000 sq. ft.
50 Kentucky Bluegrass 98/85
15% Cutter Perennial Ryegrass
10% Spartan Hard Fescue
10% Edge Perennial Ryegrass
10% Express Perennial Ryegrass
5%Pennlawn Creeping Red Fescue

B. Temporary Lawn Seed Mixture - 5 lbs. / 1,000 sq. ft.
40% Kentucky Bluegrass 98/85
40% Perennial Ryegrass
20% Annual Ryegrass

2.3 GROUNDCOVERS, PERENNIALS AND ANNUALS

Provide plants established and well-rooted in removable containers or integral peat pots and with not less than the minimum number and length of runners required by ANSI Z60.1 for the pot size shown or listed.

2.4 TREES AND SHRUBS

A. Name and Variety: Provide nursery grown plant material true to name and variety.

B. Quality: Provide trees, shrubs and other plants complying with the recommendations and requirements of ANSI Z60.1 "Standard for Nursery Stock" and as further specified.

C. Deciduous Trees: Provide trees of height and caliper listed or shown and with branching configuration recommended by ANSI Z60.1 for type and species required. Provide single stem trees except where special forms are shown or listed. Provide balled and burlapped (B&B) deciduous trees.

D. Deciduous Shrubs: Provide shrubs of the height shown or listed and with not less than the minimum number of canes required by ANSI Z60.1 for the type and height of shrub required. Provide balled and burlapped (B&B) deciduous shrubs.

E. Coniferous Evergreen: Provide evergreens of the sizes shown or listed. Dimensions indicate minimum spread for spreading and semi-spreading type evergreens and height for other types. Provide quality evergreens with well-balanced form complying with requirements for other size relationships to the primary dimension shown. Provide balled and burlapped (B&B) evergreen trees and containerized shrubs.

F. Inspection: All plants shall be subject to inspection and review at the place of growth or upon delivery and conformity to specification requirements as to quality, right of inspection and rejection upon delivery at the site or during the progress of the work for size and condition of balls or roots, diseases, insects and latent defects or injuries. Rejected plants shall be removed immediately from the site.

2.5 PLANTING SOIL MIXTURE

Provide planting soil mixture consisting of clean uncompacted topsoil (stockpiled at site) for all planting pits, perennial, annual and groundcover areas. Topsoil shall be conditioned based on any recommendations resulting from the soil test in 1.3.C.

2.6 PLANTER SOIL MIXTURE

Provide amended soil mixture consisting of 20% sand, 30% compost & 50% topsoil. Compost shall consist of 35% - 65% organic material and less than 1% manufactured inert material. Amended soil mixture shall pass through a 1/2" screen. Mix materials thoroughly.

2.7 EROSION CONTROL

A. Erosion Control Blanket: North American Green S150, or equivalent approved equal.

2.8 MULCH

Provide mulch consisting of shredded hardwood. Provide sample to Landscape Architect for approval prior to ordering materials.

LANDSCAPE WORK PART 3 - EXECUTION

3.1 PLANTING SCHEDULE

At least thirty (30) days prior to the beginning of work in each area, submit a planting schedule for approval by the Landscape Architect.

3.2 PLANTINGS

A. Sodding New Lawns

1. Remove existing grass, vegetation and turf. Dispose of such material legally off-site, do not turn over into soil being prepared for lawns.

2. Till to a depth of not less than 6"; apply soil amendments as needed; remove high areas and fill in depressions; till soil to a homogenous mixture of fine texture, remove lumps, clods, stones over 1" diameter, roots and other extraneous matter. Dispose of such material legally off-site.

3. Sodded areas shall receive an application of commercial fertilizer at the rate of 10 lbs. per 1,000 sq. ft. and shall have an analysis of 16-8-8.

4. Lay sod within 24 hours from time of stripping.

5. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or sod. Tamp or roll lightly to ensure contact with subgrade. Work sifted soil into minor cracks between pieces of sod; remove excess to avoid smothering of adjacent grass.

6. Water sod thoroughly with a fine spray immediately after planting.

B. Seeding New Lawns

1. Remove existing grass, vegetation and turf. Dispose of such material legally off-site. Do not turn over into soil being prepared for lawns.

2. Till to a depth of not less than 6"; apply soil amendments; remove high areas and fill in depressions; till soil to a homogenous mixture of fine texture, remove lumps, clods, stones over 1" diameter, roots and other extraneous matter. Dispose of such material legally off-site.

3. Seeded lawn areas shall receive an application of commercial fertilizer at the rate of 5 lbs. per 1,000 sq. ft. and shall be 6-24-24. Fertilizer shall be uniformly spread and mixed into the soil to a depth of 1" inches.

4. Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage.

5. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds five (5) miles per hour. Distribute seed evenly over entire area by sowing equal quantity in two directions at right angles to each other.

6. Sow not less than specified rate.

7. Rake lawn seed lightly into top 1" of soil, roll lightly and water with a fine spray.

8. After the seeding operation is completed, spray a wood fiber mulch (Conweb 2000 with tackifier or approved equal) over the entire grassed area at the rate of 2,000 lbs. per acre. Use a mechanical spray unit to insure uniform coverage. Exercise care to protect buildings, automobiles and people during the application of the mulch.

C. Groundcover and Perennial Beds

Groundcover, perennials, and annuals shall be planted in continuous beds of planting soil mixture a minimum of 8" deep. Install per spacing indicated on plan.

D. Trees and Shrubs

1. Set balled and burlapped (B&B) stock plumb and in center of pit or trench with top of ball at an elevation that will keep the root flare exposed upon backfill and mulching. Remove burlap from top and sides of balls; retain on bottoms. When set, place additional topsoil backfill around base and sides of ball and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill.

2. Dish top of backfill to allow for mulching. Provide additional backfill berm around edge of excavations to form shallow saucer to collect water.

3. Mulch pits, trenches and planted areas. Provide not less than 2" thickness of mulch and work into top of backfill and finish level with adjacent finish grades. Maintain exposed root flare at all times.

4. Prune only injured or dead branches from flowering trees, if any. Protect central leader of tree during shipping and pruning operations. Prune shrubs to retain natural character in accordance with standard horticultural practices.

5. Remove and replace excessively pruned or ill-formed stock resulting from improper pruning.

6. The Contractor shall be wholly responsible for assuring that all trees are planted in a vertical and plumb position and remain so throughout the life of this contract and guarantee period. Trees may or may not be staked and guyed depending upon the individual preference of the Contractor; however, any bracing procedure(s) must be approved by the Owner prior to its installation.

3.3 INITIAL MAINTENANCE

A. Begin maintenance immediately after planting, continuing until final acceptance. A minimum of thirty (30) days.

B. Maintain planted and seeded areas by watering, rolling/regrading, replanting and implementing erosion control as required to establish vegetation free of eroded or bare areas.

3.4 CLEAN UP AND PROTECTION

A. During landscape work, store materials and equipment where directed. Keep pavements clean and work areas and adjoining areas in an orderly condition.

B. Protect landscape work and materials from damage due to landscape operations, operations by other trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged landscape work as directed by Landscape Architect.

3.5 INSPECTION AND ACCEPTANCE

A. The Landscape Architect reserves the right to inspect seeds, plants, trees and shrubs either at place of growth or at site before planting for compliance with requirements for name, variety, size, quantity, quality and mix proportion.

B. Supply written affidavit certifying composition of seed mixtures and integrity of plant materials with respect to species, variety and source.

C. Notify the Landscape Architect within five (5) days after completing initial and/or supplemental plantings in each area.

D. When the landscape work is completed, including maintenance, the Landscape Architect will, upon request, make a final inspection to determine acceptability. After final acceptance, the Owner will be responsible for maintenance.

NATIVE SEED MIXTURES

Temporary Cover Crop

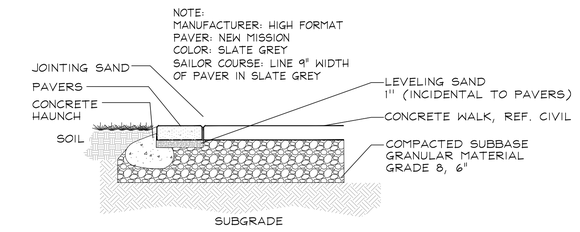
Cover crops shall be installed in all planting areas containing dry mesic, mesic, and wet mesic soils to, stabilize soils, and combat weed pressure during the germination and establishement of the native seeding area.

Botanical Name	Common Name	lbs / AC
Spring Cover Crop		
Avena sativa	Seed Oats	30.000
Fall or Dormant Cover Crop		
Tricticum aestivum	Regreen	10.000

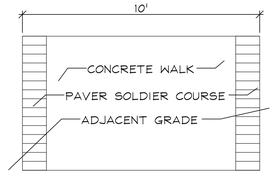
Low Profile Prairie

Upper basin slopes

Botanical Name	Common Name	lbs / AC
Grasses		
Bouteloua curtipendula	Side Oats Grama	8.000
Panicum virgatum	Prairie Switch Grass	0.125
Elymus canadenesis	Prairie Wild Rye	1.000
Schizachyrium scoparium	Little Bluestem	6.000
	Total Low Profile Prairie Seed Mix	**15.125**



BRICK SOLDIER COURSE DETAIL
NOT TO SCALE



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GARDEN STATION APARTMENTS
VILLA PARK, IL

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L1.3

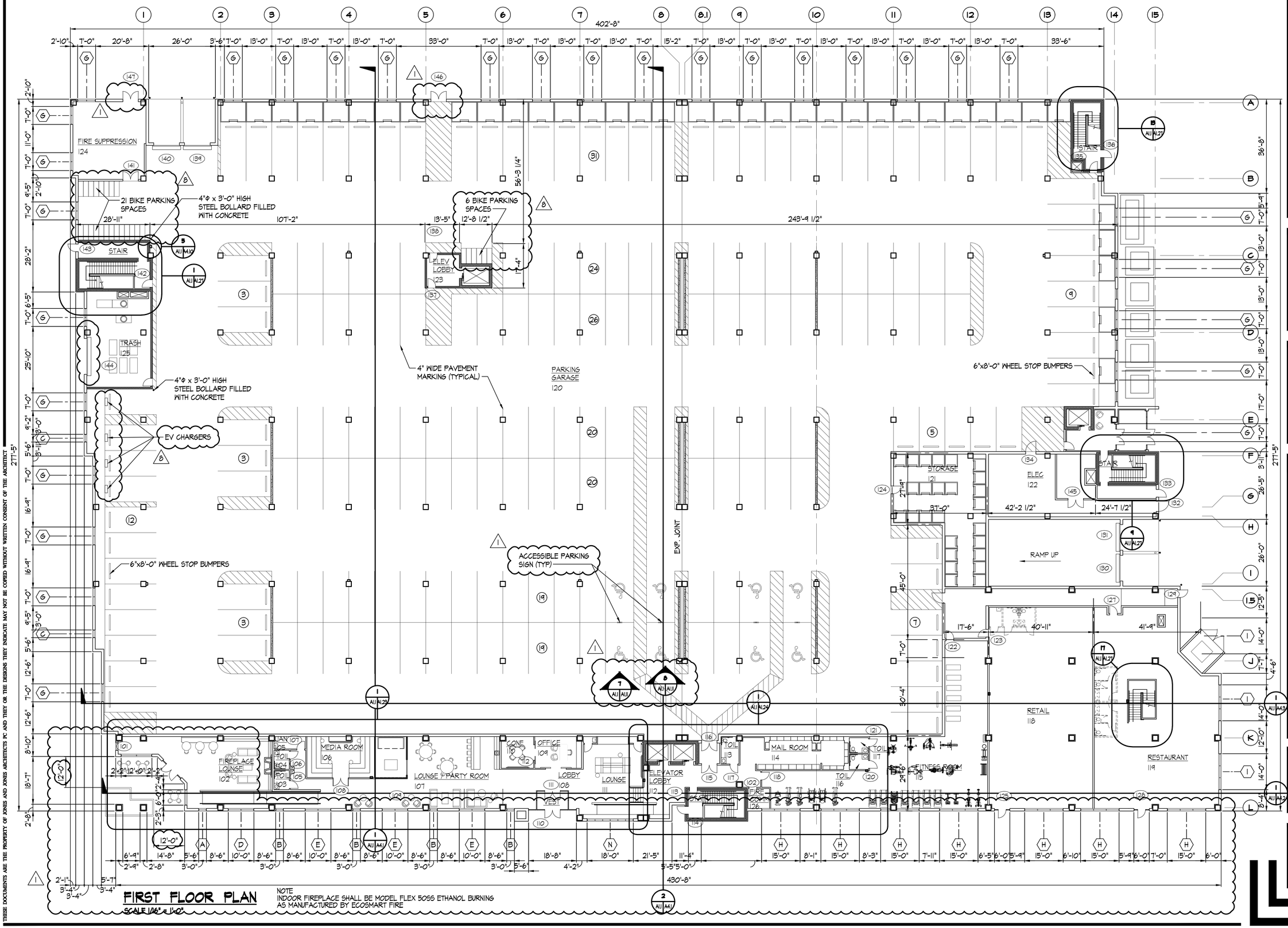
811 Know what's below. Call before you dig.

XREFS

PLOT DRWG

Garden Station, Villa Park- Rent schedule

Unit Type	Market Rate Units	Avg Unit SF	Rent/SF	Monthly Rent
One Bedroom A	75	632	$ 3.15	$ 1,990.80
One Bedroom B	95	743	$ 3.15	$ 2,340.45
One Bedroom C	20	828	$ 3.15	$ 2,608.20
One Bedroom D	5	913	$ 3.15	$ 2,875.95
One Bedroom E/ DEN	3	917	$ 3.15	$ 2,888.55
One Bedroom E (ADA)/ DEN	2	917	$ 3.15	$ 2,888.55
One Bedroom F	3	927	$ 3.15	$ 2,920.05
One Bedroom F(ADA)	1	927	$ 3.15	$ 2,920.05
One Bedroom J	5	965	$ 3.15	$ 3,039.75
One Bedroom K	54	743	$ 3.15	$ 2,340.45
One Bedroom N	10	788	$ 3.15	$ 2,482.20
Two Bedroom G	35	1,066	$ 3.32	$ 3,539.12
Two Bedroom H	3	1,189	$ 3.32	$ 3,947.48
Two Bedroom H(ADA)	2	1,189	$ 3.32	$ 3,947.48
Two Bedroom L	25	1,066	$ 3.32	$ 3,539.12
Studio M	8	632	$ 3.32	$ 2,098.24
Studio M(ADA)	2	632	$ 3.32	$ 2,098.24
Total/Average	**348**	**794**	**$3.20**	



FIRST FLOOR PLAN

SCALE 1/16" = 1'-0"

NOTE
INDOOR FIREPLACE SHALL BE MODEL FLEX 50SS ETHANOL BURNING AS MANUFACTURED BY ECOSMART FIRE

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REVISION DATE
1 - 6 JUL 2021
2 - 8 JUL 2021
3 - 4 AUG 2021
4 - 21 OCT 2022
5 - 2 JAN 2025
6 - 26 SEP 2025
7 - 31 OCT 2025
8 - 17 DEC 2025

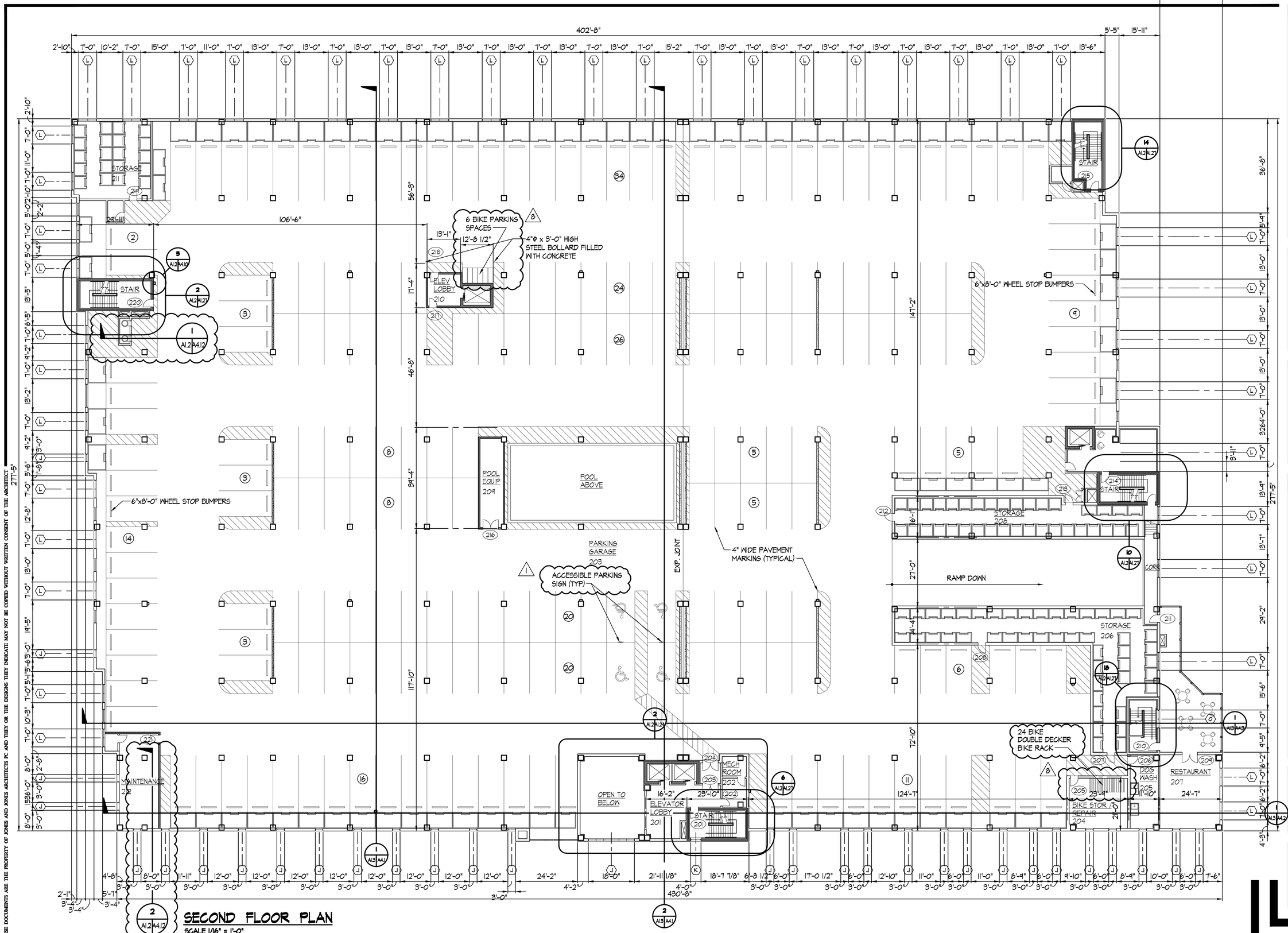
GARDEN STATION APARTMENTS

ARDMORE AVENUE / VERMONT STREET
VILLA PARK, ILLINOIS

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2793
DATE
18 JUN 2021

A1.1

JONES & JONES ASSOCIATES / ARCHITECTS PC



SECOND FLOOR PLAN

SCALE 1/16" = 1'-0"

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GARDEN STATION APARTMENTS

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JMB
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2793
DATE
18 JUN 2021

A1.2

JONES & JONES ASSOCIATES ARCHITECTS PC

OLD CHICAGO

Manufactured In:

City: Denver

State: CO

The Denver, Colorado Collection is comprised of superior clay brick for building projects. Stronger and more sustainable than alternative cladding materials, its beauty, durability, and value is unmatched.

COLOR DISCLAIMER: We do our best to ensure that our digital photos of products are as true to color as possible. However, due to inconsistencies and/or differences that occur between screens/monitors and browsers, lighting sources, graphic displays, mortar/mortar color, dye lot variations, every individual's color perception, and other factors outside of our control, we simply cannot guarantee that the color you see on your screen portrays the exact color of any product. Thus, screen images are intended as a guide only and should not be regarded as absolutely correct. We advise that all of our customers, prior to purchasing one of our products, first order a physical sample of the product or visit one of our nearby showrooms to physically view the product.

COLLECTIONS

- Denver Collection

MANUFACTURED BY

- General Shale Brick

ADDITIONAL RESOURCES

Technical Resources

WARRANTIES

Warranty

AVAILABLE SIZES

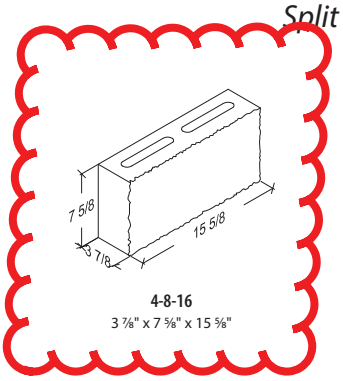
- Modular Dimensions: 3-5/8" W x 2 1/4" H x 7-5/8" L

CMU SHAPES & SIZES

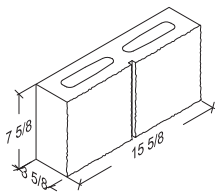
SPLIT FACE

4 INCH UNITS

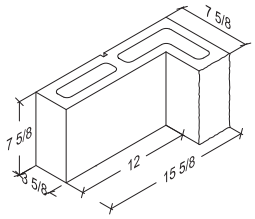
Split Face



4-8-16
3 ⅞" x 7 ⅝" x 15 ⅝"



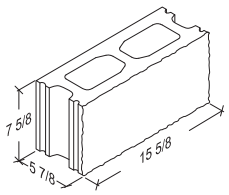
4-8-16 1-Score
3 ⅞" x 7 ⅝" x 15 ⅝"



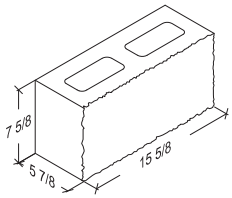
4 Inch L-Corner
7 ⅝" x 7 ⅝" x 15 ⅝"

6 INCH UNITS

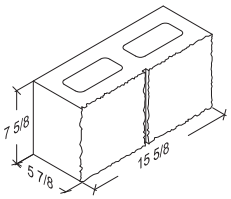
Split Face



6-8-16 Standard
5 ⅞" x 7 ⅝" x 15 ⅝"



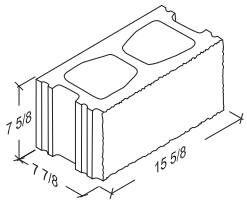
6-8-16 Square Corner
5 ⅞" x 7 ⅝" x 15 ⅝"



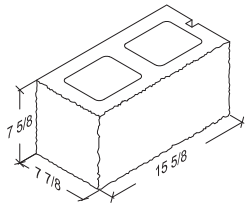
6-8-16 1-Score
5 ⅞" x 7 ⅝" x 15 ⅝"

8 INCH UNITS

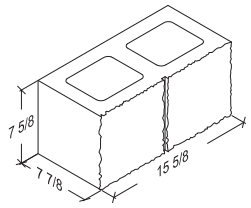
Split Face



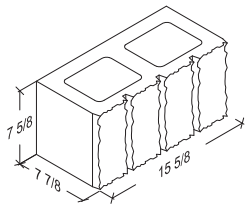
8-8-16 Standard
7 ⅞" x 7 ⅝" x 15 ⅝"



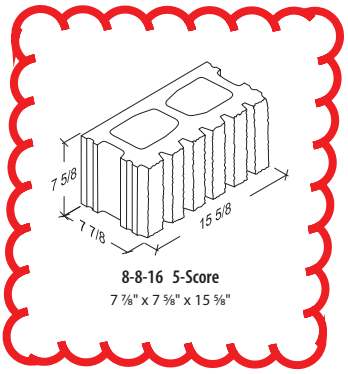
8-8-16 Side & End
7 ⅞" x 7 ⅝" x 15 ⅝"



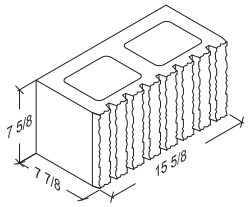
8-8-16 1-Score
7 ⅞" x 7 ⅝" x 15 ⅝"



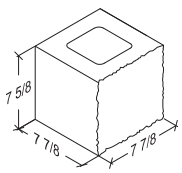
8-8-16 3-Score
7 ⅞" x 7 ⅝" x 15 ⅝"



8-8-16 5-Score
7 ⅞" x 7 ⅝" x 15 ⅝"

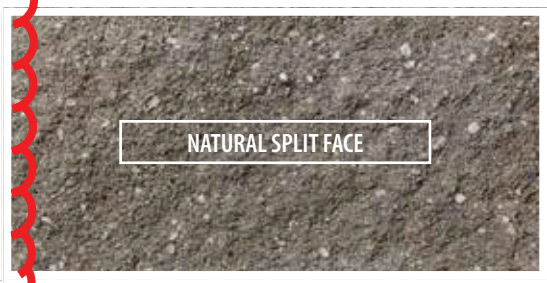


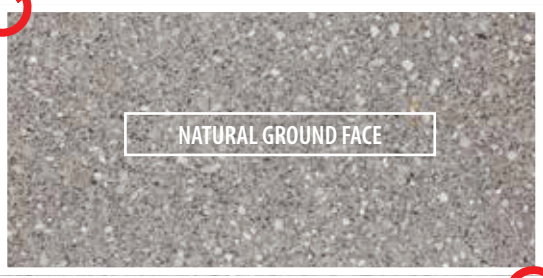
8-8-16 7-Score
7 ⅞" x 7 ⅝" x 15 ⅝"



8-8-8 Half
7 ⅞" x 7 ⅝" x 7 ⅞"

Color Guide: Split Face & Ground Face





Concrete Masonry Units (CMU) from Kanta Products are available in both standard or premium colors, and with three different texture choices.

Premium Colors:
Castle White, Sandstone

Standard Colors:
Natural, Buff, Golden Rod, Old Red, Kanta Brown

Textures:
Ground Face, Split Face, and Smooth

Hardie® Panel vertical siding Submittal Form 02

Submitted to: .....

Project Name: .....

Submitted by: .....

Date: .....

☐ **HZ5® Product Zone** ☐ **HZ10® Product Zone**

Product Width: ☐ **4x8ft** ☐ **4x9ft** ☐ **4x10ft** ☐ **16inx12ft**

Product Finish: ☐ **Primed** ☐ **ColorPlus® Technology**

Product Texture: ☐ **Smooth** ☐ **Select Cedarmill©** ☐ **Sierra 8** ☐ **Stucco**

Hardie® Panel vertical siding Specification Sheet 02

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION | SECTION: 07 46 46 FIBER CEMENT SIDING

HARDIE® PANEL VERTICAL SIDING

Manufacturer

James Hardie Building Products Inc.

The products are manufactured at the following locations, with quality control inspections by ICC-ES:

- Cleburne, Texas
- Plant City, Florida
- Reno, Nevada
- Waxahachie, Texas
- Prattville, Alabama
- Peru, Illinois
- Pulaski, Virginia
- Tacoma, Washington
- Fontana, California
- Summerville, South Carolina

Compliance with the following codes

- 2006 thru 2021 International Building Code (IBC)
- 2006 thru 2021 International Residential Code (IRC)

For more information about other compliances and applicable uses, refer to the ESR-1844

Features

- Noncombustible
- Dimensionally Stable
- Resistant to damage caused by pests
- Weather Resistant-Engineered for Climate®
- Impact resistant
- Sustainable

Use

James Hardie fiber-cement panels are used as exterior wall covering. The product complies with IBC Section 1403.9 and IRC Section R703.10. The product may be used on exterior walls of buildings of Type I, II, III and IV construction (IBC).

Description

Hardie® Panel vertical siding is a single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie® Panel vertical siding complies with ASTM C1186, as Grade II, Type A; has a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and is classified as noncombustible when tested in accordance with ASTM E136.

Available Sizes

Product	Width (inches)	Length (feet)	Thickness (inches)
Hardie® Panel vertical siding	48	8, 9*, 10	5/16

** Size not available in ColorPlus® Technology, primed only.*

Weight: 2.40 lbs. per square foot

Texture & Finish

Hardie® Panel vertical siding comes in a variety of textures and finishes. The product is available in smooth, wood grain, Sierra 8, or stucco. Finish options are primed for field paint, or factory finished with ColorPlus® Technology. Color availability varies by region.

Engineered for Climate®

Hardie® Panel vertical siding is engineered for performance to specific weather conditions by climate zones as identified by the following map.

Performance Properties

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	± 0.04 in	
			Squareness	Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft	
			Edge Straightness	≤ 1/32 in/ft of length	
	Density, lb/ft^3	ASTM C1185		As reported	83
	Water Absorption, % by mass	ASTM C1185		As reported	36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Flexural Strength	ASTM C1185	Wet conditioned, psi	>1015 psi	Pass
			Equilibrium conditioned, psi	>1450 psi	
THERMAL	Thermal Conductivity	ASTM C177	(BTU/(hr·ft°F))/inch	As reported	2.07
	Actual Thermal Conductivity		(K_{eff})		6.62
	Thermal Resistance		R=1/ K_{eff}		0.48
	Actual Thermal Resistance		(R)		0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
			Mass Loss, %	≤ 3.0%	
			Freeze/Thaw, % strength retention	≥ 80%	
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class		A
			Uniform Building Code Class	As reported	1
			International Building Code® class		A
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: listed on Warnock Hersey and ESR 1844

Installation

Install Hardie® Panel vertical siding in accordance with:

- Hardie® Panel vertical siding installation instructions
- ICC-ES ESR-1844
- Requirements of authorities having jurisdiction

Warranty

Hardie® Panel vertical siding: 30-year, Non-Prorated, Limited Warranty
ColorPlus® Technology: 15-year Limited Finish Warranty

Sustainable Design Contribution

- Regionally sourced content- varies by project location
- Avoidance of certain chemicals or Red List Compliance

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical Services.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services online at JamesHardie.com, or by phone at (800)426-4051

IMPORTANT: Failure to install and finish this product in accordance with applicable building codes and James Hardie written application instructions may affect system performance, violate local building codes, void the product-only warranty and lead to personal injury. **DESIGN ADVICE**: Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project eg. builder, architect or engineer. James Hardie will not be responsible in connection with any such information or assistance.

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Product warranties, safety information and additional installation information are available at jameshardiepros.com
1 866 442 7343 I www.jameshardie.com

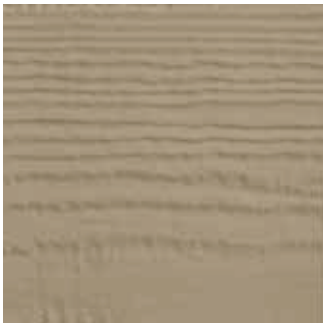
JamesHardie™

Statement Collection® Color Availability

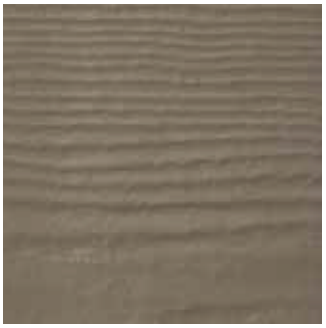
ARCTIC WHITE **1 | 2 | 3**

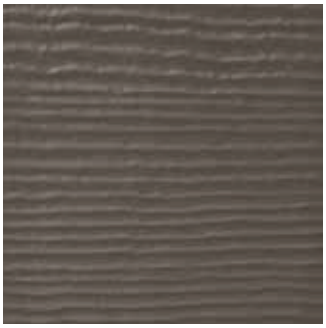
COBBLE STONE **1 | 2**

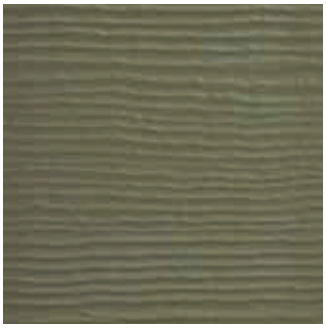
NAVAJO BEIGE **1**


KHAKI BROWN **1**

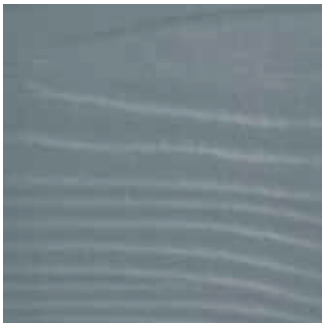
MONTEREY TAUPE **1**


TIMBER BARK **1 | 2**


RICH ESPRESSO **1**


MOUNTAIN SAGE **1**

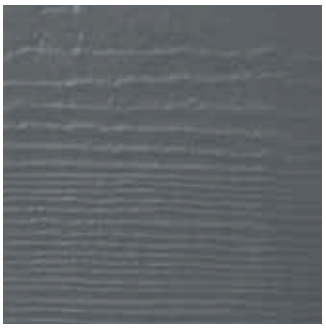
GRAY SLATE **1**

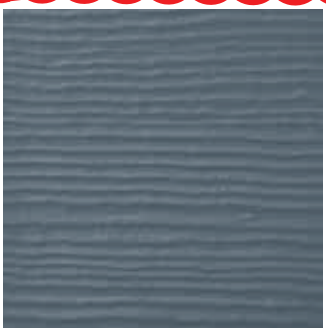

BOOTHBAY BLUE **1**

LIGHT MIST **1**

PEARL GRAY **1**

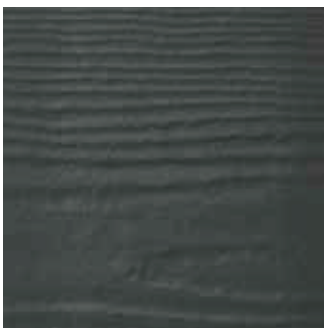
AGED PEWTER **1 | 2**

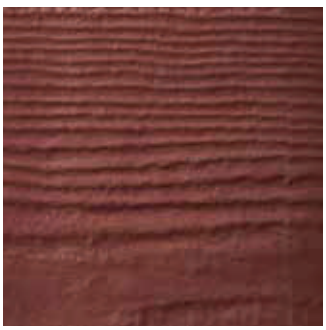

NIGHT GRAY **1**


EVENING BLUE **1**

DEEP OCEAN **1**

PRODUCT AVAILABILITY KEY	
1	**Hardie® Siding** Hardie® Plank, Hardie® Shingle, Hardie® Panel, Hardie® Trim Batten
2	**Hardie® Trim**
3	**Hardie® Soffit**


IRON GRAY **1 | 2**


COUNTRYLANE RED **1**

MIDNIGHT BLACK **2**
(Only available in Hardie® Trim)

Colors shown are as accurate as printing methods will permit. Go to jameshardie.com to order a color sample.

Traffic Impact Study

Proposed
Garden Station Apartments
SEC Ardmore Ave at
Vermont St
Villa Park, Illinois

May 5, 2025

Prepared For:

HAWTHORNE DEVELOPMENT

Prepared by:
Milan K Patel, PE, PTOE, RSP1
Daniel P Brinkman, PE, PTOE

GHA GEWALT HAMILTON ASSOCIATES, INC.

Part I. Introduction and Project Context

Gewalt Hamilton Associates, Inc. (GHA) has conducted a Traffic Impact Study (TIS) for the proposed mixed-use development: *Garden Station Apartments*. The approximately 2.9-acre subject site is located on the east side of Ardmore Avenue south of the Vermont Street intersection and northwest of the METRA Station in Villa Park, Illinois. The property is bounded by Ardmore Avenue on the west, Vermont Street on the north, Beverly Avenue on the east and Terrace Street on the south. Per the January 24, 2022, Geometric Plan, prepared CEMCON, Ltd., Hawthorne Development Corporation is proposing to construct a single mixed-use building containing 348 residential units, 4,400 square foot restaurant (Brew Pub) and an additional 2,830 square feet of commercial space. Access to the development's internal parking garages is proposed on Terrace Street and Beverley Avenue.

The following summarizes our findings and provides various recommendations for your consideration. *Appendices* referenced are in the Technical Addendum at the end of this document.

Part II. Background Information

Site Location Map and Roadway Inventory

Exhibit 1 provides a site location map. The existing traffic operations in the site area are illustrated on ***Exhibit 2***. ***Appendix A*** provides a photo inventory of operations along the site frontages. Pertinent comments about the adjacent roadways include:

Ardmore Avenue

- Ardmore Avenue is a north-south Major Collector in the vicinity of the side under the jurisdiction of the Village of Villa Park
- Along the site frontage, Ardmore Avenue provides a single travel lane in each direction separated by a full-width, flush median.
- Ardmore Avenue has a posted speed limit of 25 miles per hour (mph) in the vicinity of the site.
- Protected parallel parking is provided along the east side of Ardmore Avenue adjacent to the subject site.
- Separate northbound and southbound left turn lanes are provided at the All-Way Stop Controlled (AWSC) intersection with Vermont Street.
- A separate southbound left turn lane is provided for Terrace Street.
- Algonquin Road is designated as a Class II Truck route.
- The Annual Average Daily Traffic (AADT), year 2016, on Ardmore Avenue was 7,550 vehicles per day.

Vermont Street

- Vermont Street is an east-west local roadway under Village of Villa Park jurisdiction.
- Vermont Street provides a single travel lane in each direction marked with "sharrows" for use as a shared bike lane.
- No speed limit is posted on Vermont Street in the vicinity of the subject site.
- Parking is prohibited along Vermont Street adjacent to the site.
- No historic AADT volume is available for Vermont Street.

Beverly Avenue

- Beverly Avenue is a north-south local street under Village of Villa Park jurisdiction.
- Beverly Avenue provides a single travel lane in each direction.

- Beverly Avenue is under Stop Sign control at its intersection with Vermont Street.
- Parking is prohibited all day on the west side of Beverly Avenue adjacent to the site and prohibited between 7AM and 9AM on the east side of the street.
- No speed limit is posted on Beverly Avenue and no historical AADT volume is available.

Terrace Street

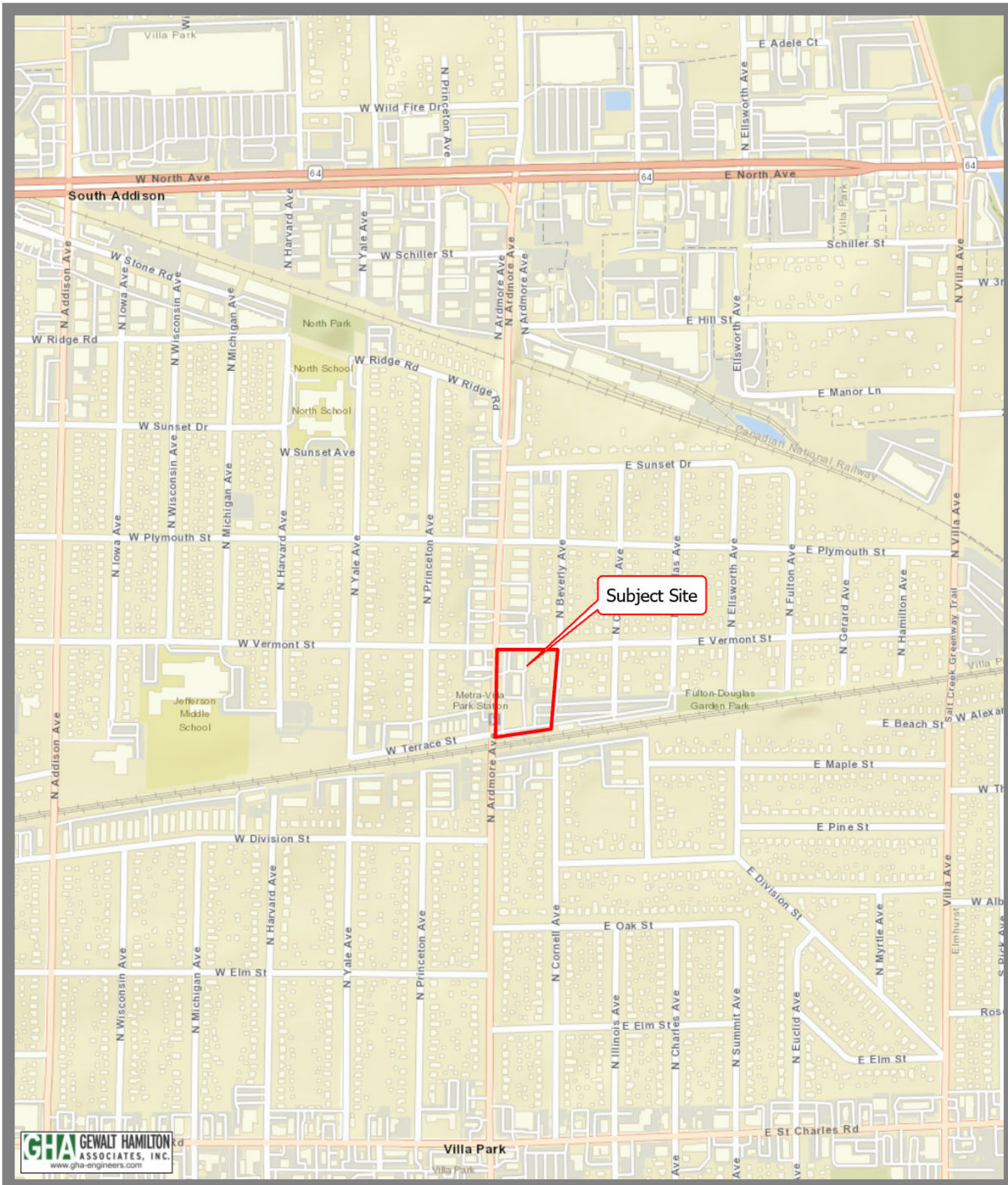
- Terrace Street is a One-Way (eastbound) east-west local street under Village of Villa Park jurisdiction.
- Terrace Street serves as the primary access to the Villa Park METRA Station located just southeast of the subject site.
- Terrace Street provides a single travel lane in each direction.
- Parking (10 MIN) for "Kiss and Ride" is provided on the south side of Terrace Street between the subject site and the METRA platform.
- No speed limit is posted on Terrace Street and no historical AADT volume is available.

Pedestrian Facilities

- Sidewalks are provided adjacent to the subject site on both Ardmore Avenue and Vermont Street.
- There are no sidewalks on Beverly Avenue or Terrace Street, but there is a sidewalk connection from the northeast corner of the Ardmore Avenue intersection with Terrace Street to the METRA platform.

Transit

- The Villa Park METRA (Union-Pacific West Line) station is just to the southeast of the subject site.
- There are no active PACE routes in the site vicinity per the PACE website www.pacebus.com .



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www.gha-engineers.com

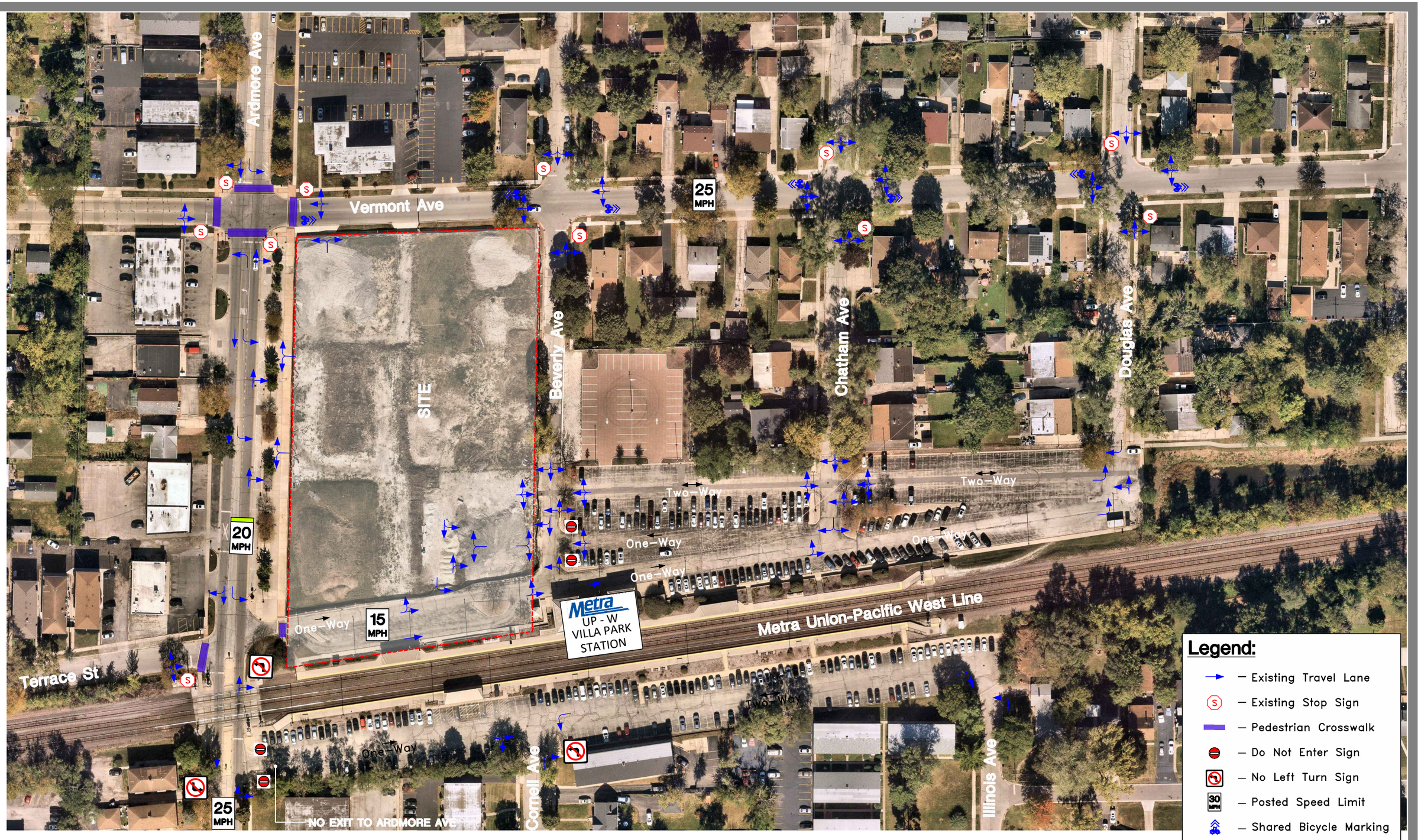
N

1 inch = 1,000 Feet

Map Center: 87.97872°W 41.89778°N

Exhibit 1 - Location Map

Proposed Garden Station Apartments
SEC Ardmore Ave at E Vermont St
Villa Park, IL



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Not to Scale

Exhibit 2
Existing Traffic Operations

Existing Traffic

Exhibit 3 summarizes the existing weekday morning and evening peak hour traffic volumes. Peak period traffic turning movement counts were conducted by GHA on Thursday April 17, 2025, from 7:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM at the at the Ardmore Avenue and Beverly Avenue intersections with Vermont Street and Terrace Street. The observed weekday morning and evening peak hours generally occurred from 7:15 to 8:15 AM, 4:15 to 5:15 PM respectively. ***Exhibit 3*** also provides the year 2016 AADT (24-hour volume) along Ardmore Avenue as published by IDOT on their website: www.gettingaroundillinois.com.

No unusual activities (e.g., roadway construction, or inclement weather) were observed during our counts that would be expected to impact traffic volumes or travel patterns in the vicinity. Summaries of the 2025 existing traffic counts can be found in ***Appendix B***.

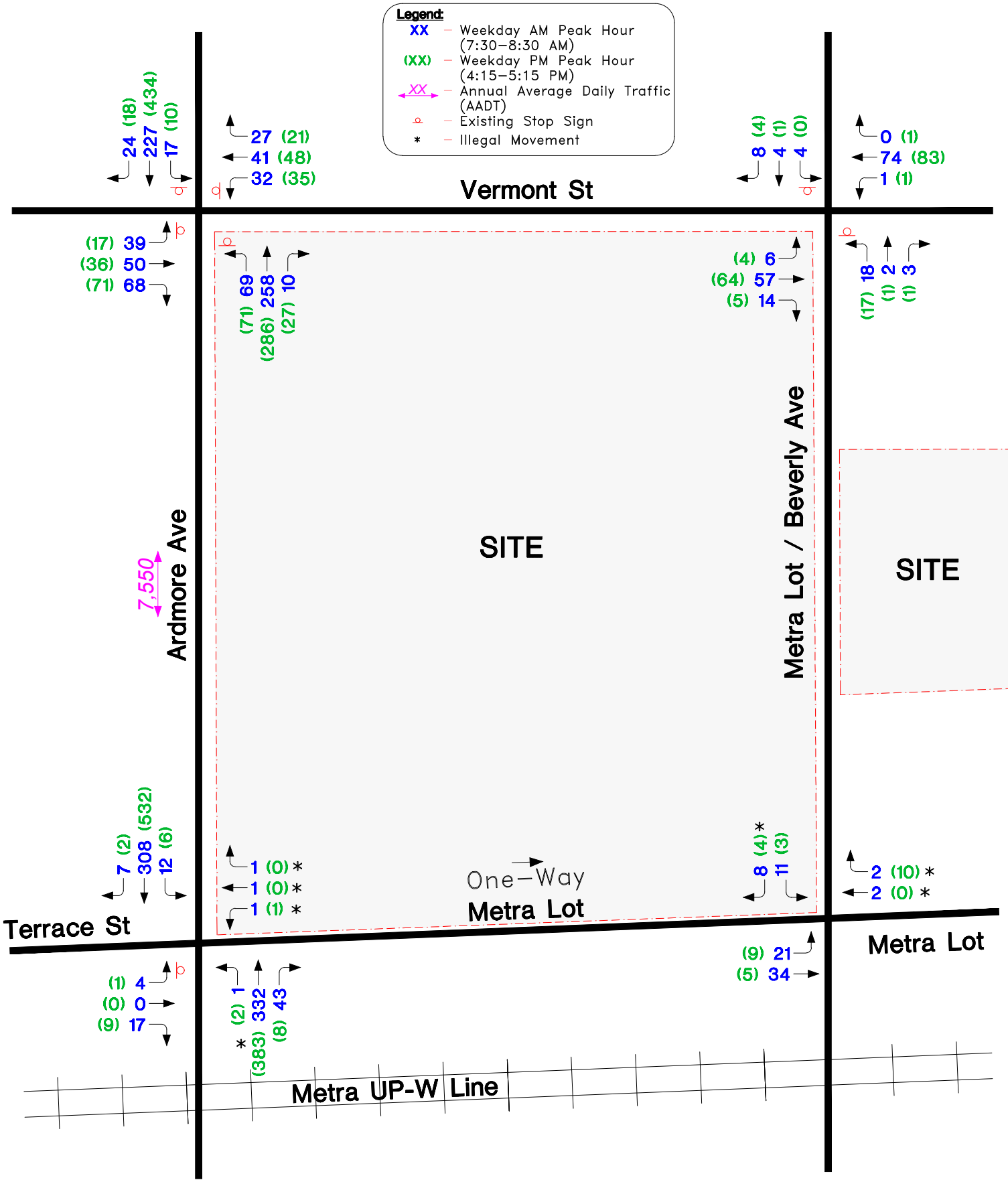

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Exhibit 3
Existing Traffic

Sources: 1) GHA April, 2025 2) IDOT 2016 AADT

Crash Analysis

Crash data was obtained from the IDOT Division of Transportation and Safety for the last five calendar years, 2019 through 2023. A summary of the crash data is provided in **Table 1** with the locations mapped on the exhibit contained in ***Appendix C***.

Table 1: Crash Summary (2019-2023) [A]

Location	No. of Crashes	PD	Severity[A]			F	Crash Type[B]									Percent Wet / Icy
			A	B	C		A	FO	FTF	FTR	SS	T	PED	BIKE	O	
Intersections (Crashes within 250 ft of Intersection)																
Ardmore Ave at Vermont St	9	7	0	1	1	0	2	0	0	2	0	3	0	0	2	33%
Ardmore Ave at Terrace St	3	3	0	0	0	0	0	0	0	2	0	0	0	0	1	67%
Beverley Ave at Vermont St	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0%
Beverley Ave at Terrace St	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
Total =	13	10	0	1	2	0	3	0	0	4	0	3	0	0	3	38%

[A] PD=Property Damage Only, A=Type A (incapacitating injury), B=Type B (non-incapacitating injury), C=Type C (possible injury), F= Fatal Injury

[B] A=Angle, FO=Fixed Object, FTF=Front-to-Front, FTR=Front-to-Rear, SSD=Sideswipe Same Direction, T=Turning, PED=Pedestrian, BIKE=Pedacyclist, O=Other

As shown in **Table 1**, the intersection of Ardmore Avenue and Vermont Street experienced the highest number of crashes within the study area over the five-year analyses period, with an average of 2 crashes per year. Approximately 78 percent (7 of 9) of the crashes involved property damage only and approximately 56 percent (5 of 9) were either Angle or Turning crashes. One B-Type injury crash and one C-Type injury crash were reported.

Additionally, the intersection of Ardmore Avenue and Terrace Street experienced the next highest number of crashes with an average of approximately 1 crash every three years. All of the crashes at this intersection involved property damage only and more than half (approximately 67 percent) were rear-end collisions. No injury crashes were reported.

There were no crashes that involved pedestrians or bicyclists throughout the study area.

No-Build Traffic

Traffic growth in the area is a function of expected land development in the region. Future traffic volume conditions were developed for the year 2033, build-out year of the development (Q4 year 2027-say 2028) plus five years. Based on a review of historical traffic volumes and the Chicago Metropolitan Agency for Planning (CMAP) 2050 projections (see ***Appendix D***), traffic volumes along the roadways surrounding the site are assumed to experience an overall annual compounded growth rate of approximately 0.67% per year. Accordingly, the 2033 No-Build peak hour traffic volumes (see ***Exhibit 4***) were developed by applying the predicted growth rate to the existing 2025 traffic volumes.

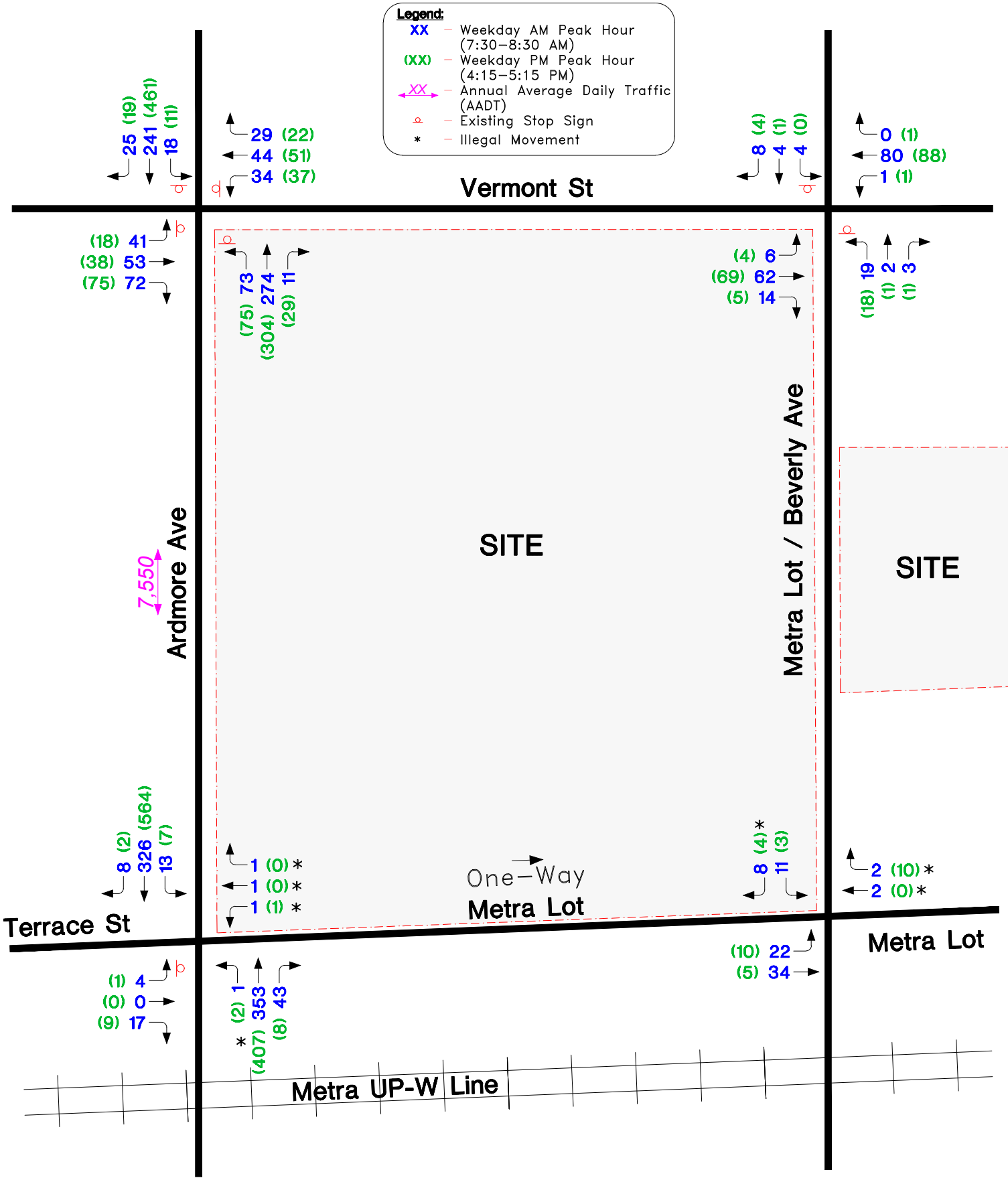

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Exhibit 4
2033 No-Build Traffic

Part III. Traffic Evaluation

Future Site Characteristics

Proposed Development Plan

Per the January 24, 2022, Geometric Plan, prepared CEMCON, Ltd., Hawthorne Development Corporation is proposing to construct a single mixed-use building containing 348 residential units, a 4,400 square foot restaurant and an additional 2,830 square feet of commercial space. Access to the development's internal parking garages is proposed on Terrace Street and Beverley Avenue. The Terrace Street entrance is approximately 75-feet east of Ardmore and the Beverly Avenue entrance is approximately 85-feet south of Vermont Street.

These dimensions are also illustrated on ***Exhibit 5.***

The January 24, 2022, Geometric Plan is provided in ***Appendix E***.

Planned Street Operations

Terrace Street east of Ardmore Avenue will be repurposed to provide two-way operations until Beverly Avenue. This change was made as a result of feedback from the Village. It will allow traffic entering and exiting the parking garages to utilize both Ardmore Avenue and Vermont Street. The Ardmore Avenue / Terrace Street intersection will allow southbound left turns, northbound right turns, and westbound right turns. Westbound left turns from Terrace Street to Ardmore Avenue will be prohibited due to its close proximity to the railroad crossing. As a result of changing Terrace Street to two-way operations, it is our understanding that the current kiss-n-ride parking spaces and drop-off lane will be replaced with eight standard parking spaces, as well as eight accessible parking spaces. It should also be noted that a new sidewalk will be constructed along the north side of Terrace Street adjacent to the building to enhance pedestrian mobility.

Trip Generation

Table 2 summarizes the traffic generation calculations for the proposed development. Trip generation rates published by the Institute of Transportation Engineers (ITE) in the 11th Edition of the Manual *Trip Generation* were used to determine the anticipated traffic generated by the proposed development. As can be seen in **Table 2** the proposed mixed-use development is expected to generate between 120-180 trips (combined inbound and outbound) during the Peak Hours and approximately 2,460 trips (again inbound and outbound total) in a 24-hour period.

The proximity of the proposed development to the METRA station suggests that some, if not many trips will be oriented to and from the station, reducing peak period traffic. Additionally, not all traffic to and from the on-site retail and restaurant uses is expected to be new trips. Up to 20% of retail and restaurant traffic would be expected to be from patrons already traveling the roadway network (e.g., a stop on the way home after getting off the train). However, to ensure that a conservative approach was considered we did not take any of these discounts when analyzing the impact of the proposed development.

Table 2: Trip Generation Calculations

Land Use	Size	ITE Code	Weekday Peak Hours						Daily		
			Morning 7:15-8:15 AM			Evening 4:15-5:15 PM					
			In	Out	Sum	In	Out	Sum	In	Out	Sum
Residential	348 DU	221	39	70	109	66	35	101	807	807	1,614
Retail <40ksf	2.8 KSF	822	7	5	12	16	16	32	174	174	348
Brew Pub	4.4 KSF	925	-	-	-	33	17	50	250	250	500
New Trips			**46**	**75**	**121**	**115**	**68**	**183**	**1,231**	**1,231**	**2,462**

See ***Appendix F*** for excerpts of the ITE manual.

Trip Distribution

Table 3 provides the anticipated distribution of site traffic. This was based on existing site travel patterns, proposed access, and the operational characteristics of the adjacent street system, including the proximity to the I-90 interchange to the west and the IL 53/ I-290 interchange to the east.

Table 3: Trip Distribution

Route & Direction	Percent Route To/From Site
Ardmore Avenue	
North of Vermont St	35%
South of Terrace St	30%
Vermont Street	
West of Ardmore Ave	15%
East of Beverly Ave	20%
Terrace Street	
West of Ardmore Ave	<5%
Beverly Avenue	
North of Vermont St	<5%
Totals =	***100%***

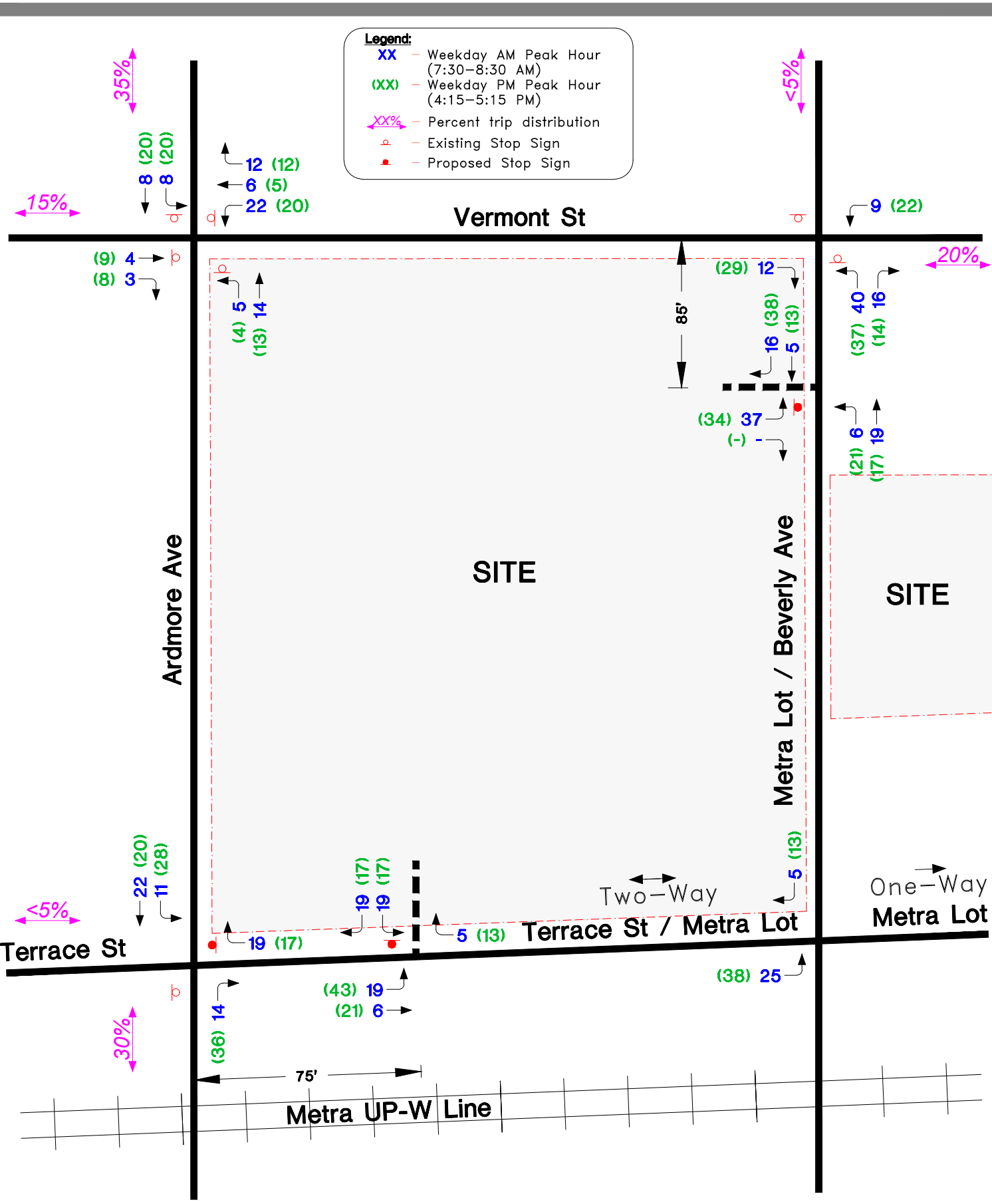
Traffic usage of the area roadway network is also illustrated on ***Exhibit 5.***

Site and Total Traffic Assignments

Exhibit 5 illustrates the site traffic assignments for the development's trips, which is based on the traffic characteristics summarized in **Tables 2 and 3** (traffic generation and trip distribution) and assigned to the area roadways. As previously noted, the proposed development is anticipated to open in late 2027 or early 2028. Therefore, we have considered the total impacts of the complete development for the year 2033, or buildout plus five years.

The site traffic (***Exhibit 5***) and 2033 No-Build traffic (***Exhibit 4***) were combined to produce the 2033 Total traffic, which is illustrated on ***Exhibit 6***.

Discussion Point. The site traffic assignment assumes that all site trips would be entering and exiting via the garage access points. In reality, the vast majority of commercial trips will be oriented along and parking in the on-street spaces on Ardmore Avenue and perhaps Beverly Avenue after hours for METRA. Thus, it can be concluded that we have analyzed the maximum potential Garden Station traffic impacts.



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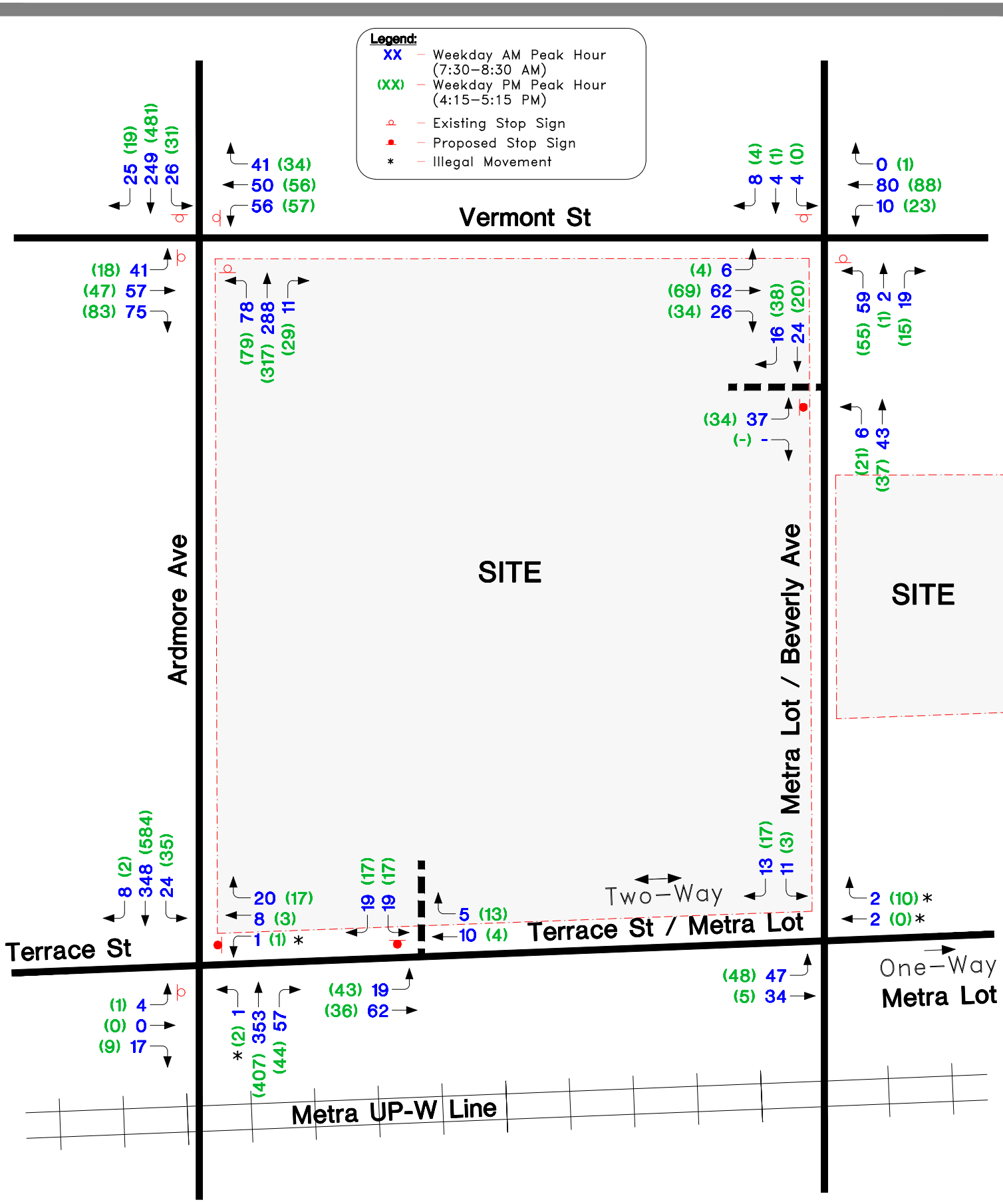
Not to Scale

Exhibit 5
Site Traffic



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Not to Scale

Exhibit 6
2033 Total Traffic

Capacity Analysis

Capacity analyses are a standard measurement that identifies how an intersection operates. They are measured in terms of Level of Service (LOS). The concept of LOS is defined as a qualitative measure describing operational conditions within a traffic stream and their perception by motorists and/or passengers. A level-of-service definition provides an index to quality of traffic flow in terms of such factors as speed, travel time, freedom to maneuver, traffic interruptions, comfort, convenience, and safety.

Six Levels of Service are defined for each type of facility. They are given letter designations from A to F, with LOS A representing the best operating conditions and LOS F the worst. LOS C is often considered acceptable for design purposes and LOS D is usually considered as providing the lower threshold of acceptable operations. Since the level of service is a function of the traffic flows placed upon it, the facility may operate at a wide range of levels of service, depending on the time of day, day of week or period of year. A description of the operating conditions under each level of service, based on the analysis parameters as published in the Transportation Research Board's (TRB) Highway Capacity Manual (HCM), Seventh Edition, is provided in **Table 4**.

Table 4: Level of Service (LOS) Summary

LOS	Description	Delay (sec/veh)	
		Traffic Signal	Stop Sign
A	Describes conditions with little to no delay to motorists.	<10	< 10
B	Represents a desirable level with relatively low delay to motorists.	>10 and < 20	>10 and < 15
C	Describes conditions with average delays to motorists.	>20 and < 35	>15 and < 25
D	Describes operations where the influence of congestion becomes more noticeable. Delays are still within an acceptable range.	>35 and < 55	>25 and < 35
E	Represents operating conditions with high delay values. This level is often considered within urban settings or for minor streets intersecting major arterial roadways to be the limit of acceptable delay.	>55 and < 80	>35 and < 50
F	Is unacceptable to most drivers with high delay values that often occur when arrival flow rates exceed the capacity of the intersection.	>80	>50

Capacity analyses were performed using the methodologies outlined in the HCM, for the following scenarios:

- *Existing Traffic* – Existing traffic (year 2025),
- *No-Build Traffic* – Future (non-site, year 2033) traffic with background growth, and
- *Total Traffic* – Future No-Build traffic volumes (year 2033) plus the addition of the site generated traffic.

2033 Total traffic conditions assumed the following, with *Exhibit* 7, illustrating future traffic operations:

- The location of the Beverly Avenue parking entrance will be approximately 85-feet south of Vermont Street.
- The location of the Terrace Street parking entrance will be approximately 75-feet east of Ardmore Avenue.
- Westbound left turns at Ardmore Avenue and Terrace Street will be prohibited.
- Both parking accesses will operate under Stop Sign Control.

Table 5 summarizes the intersection capacity and queue analysis results.

Table 5: Level-of-Service Summary

Intersection / Timeframe		Roadway Conditions	Movement Group By Approach > = Shared Lane - = Non Critical or Not Allowed Movement												Overall Intersection
			Eastbound			Westbound			Northbound			Southbound			
1. Ardmore Avenue & Vermont Street		**AWSC**	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	
AM Peak	**A. Existing Traffic (See Exhibit 3)**	• LOS	>	**B**	<	>	**B**	<	**B**	**B**	<	**A**	**B**	<	**B**
		• Delay	-	11.1	-	-	10.3	-	10.1	14	-	9.3	13.5	-	12.5
		• 95th Queue Length (ft)	-	31.7	-	-	17.9	-	12.9	70.7	-	2.5	61.9	-	-
		• Approach LOS (Delay)		**B (11.1)**			**B (10.3)**			**B (13.2)**			**B (13.2)**		-
	B. 2033 No-Build Traffic (See Exhibit 4)	• LOS	>	**B**	<	>	**B**	<	**B**	**C**	<	**A**	**B**	<	**B**
		• Delay	-	11.6	-	-	10.7	-	10.3	15.2	-	9.5	14.5	-	13.3
		• 95th Queue Length (ft)	-	34.3	-	-	20.5	-	12.9	81.2	-	2.5	72.2	-	-
		• Approach LOS (Delay)		**B (11.6)**			**B (10.7)**			**B (14.2)**			**B (14.2)**		-
	C. 2033 Total Traffic (See Exhibit 6)	• LOS	>	**B**	<	>	**B**	<	**B**	**C**	<	**A**	**C**	<	**B**
		• Delay	-	12.4	-	-	12	-	10.8	17.4	-	10	16.2	-	14.7
		• 95th Queue Length (ft)	-	39.6	-	-	30.7	-	15.5	96.9	-	5	82.6	-	-
		• Approach LOS (Delay)		**B (12.4)**			**B (12.0)**			**C (16.0)**			**C (15.6)**		-
PM Peak	**A. Existing Traffic (See Exhibit 3)**	• LOS	>	**B**	<	>	**B**	<	**B**	**C**	<	**A**	**D**	<	**C**
		• Delay	-	11.2	-	-	11.3	-	10.2	16	-	9.2	27.8	-	19.5
		• 95th Queue Length (ft)	-	23	-	-	20.2	-	12.5	89.6	-	2.5	198	-	-
		• Approach LOS (Delay)		**B (11.2)**			**B (11.3)**			**B (15.0)**			**D (27.4)**		-
	B. 2033 No-Build Traffic (See Exhibit 4)	• LOS	>	**B**	<	>	**B**	<	**B**	**C**	<	**A**	**E**	<	**C**
		• Delay	-	11.8	-	-	11.8	-	10.6	18.1	-	9.4	36.2	-	23.8
		• 95th Queue Length (ft)	-	25.6	-	-	22.7	-	12.5	105	-	2.5	252	-	-
		• Approach LOS (Delay)		**B (11.8)**			**B (11.8)**			**C (16.7)**			**E (35.6)**		-
	C. 2033 Total Traffic (See Exhibit 6)	• LOS	>	**B**	<	>	**B**	<	**B**	**C**	<	**B**	**F**	<	**D**
		• Delay	-	13.2	-	-	13.6	-	11.3	22.7	-	10.2	55.4	-	32.6
		• 95th Queue Length (ft)	-	33.3	-	-	35.3	-	15	136	-	5	333	-	-
		• Approach LOS (Delay)		**B (13.2)**			**B (13.6)**			**C (20.6)**			**F (52.8)**		-

Table 5: Level-of-Service Summary (cont.)

Intersection / Timeframe		Roadway Conditions	Movement Group By Approach > = Shared Lane - = Non Critical or Not Allowed Movement											
			Eastbound			Westbound			Northbound			Southbound		
2. Vermont Street & Beverly Avenue		**TWSC - NB/SB Stops**	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
AM Peak	**A. Existing Traffic (See Exhibit 3)**	• LOS	**A**	**<**	**<**	**A**	**<**	**<**	**>**	**B**	**<**	**<**	**A**	**<**
		• Delay	7.4	-	-	7.4	-	-	-	10.2	-	-	9.9	-
		• 95th Queue Length (ft)	0	-	-	0	-	-	-	3	-	-	3	-
		• Approach LOS (Delay)	**A (0.6)**			**A (0.1)**			**B (10.2)**			**A (9.9)**		
	B. 2033 No-Build Traffic (See Exhibit 4)	• LOS	**A**	**<**	**<**	**A**	**<**	**<**	**>**	**B**	**<**	**>**	**A**	**<**
		• Delay	7.4	-	-	7.4	-	-	-	10.4	-	-	10.0	-
		• 95th Queue Length (ft)	0	-	-	0	-	-	-	3	-	-	3	-
		• Approach LOS (Delay)	**A (0.6)**			**A (0.1)**			**A (10.4)**			**A (10.0)**		
	C. 2033 Total Traffic (See Exhibit 6)	• LOS	**A**	**<**	**<**	**A**	**<**	**<**	**>**	**B**	**<**	**<**	**B**	**<**
		• Delay	7.4	-	-	7.5	-	-	-	11.1	-	-	10.2	-
		• 95th Queue Length (ft)	0	-	-	0	-	-	-	13	-	-	3	-
		• Approach LOS (Delay)	**A (0.5)**			**A (0.9)**			**B (11.1)**			**B (10.2)**		
PM Peak	**A. Existing Traffic (See Exhibit 3)**	• LOS	**A**	**<**	**<**	**A**	**<**	**<**	**>**	**A**	**<**	**>**	**A**	**<**
		• Delay	7.4	-	-	7.4	-	-	-	10.0	-	-	9.2	-
		• 95th Queue Length (ft)	0	-	-	0	-	-	-	3	-	-	0	-
		• Approach LOS (Delay)	**A (0.4)**			**A (0.1)**			**A (10.0)**			**A (9.2)**		
	B. 2033 No-Build Traffic (See Exhibit 4)	• LOS	**A**	**<**	**<**	**A**	**<**	**<**	**>**	**B**	**<**	**<**	**A**	**<**
		• Delay	7.4	-	-	7.4	-	-	-	10.1	-	-	9.2	-
		• 95th Queue Length (ft)	0	-	-	0	-	-	-	3	-	-	3	-
		• Approach LOS (Delay)	**A (0.6)**			**A (0.1)**			**B (10.1)**			**A (9.2)**		
	C. 2033 Total Traffic (See Exhibit 6)	• LOS	**A**	**<**	**<**	**A**	**<**	**<**	**>**	**B**	**<**	**>**	**A**	**<**
		• Delay	7.4	-	-	7.5	-	-	-	11.1	-	-	9.4	-
		• 95th Queue Length (ft)	0	-	-	0	-	-	-	10	-	-	0	-
		• Approach LOS (Delay)	**A (0.3)**			**A (1.7)**			**B (11.1)**			**A (9.4)**		

Table 5: Level-of-Service Summary (cont.)

Intersection / Timeframe		Roadway Conditions	Movement Group By Approach											
			> = Shared Lane - = Non Critical or Not Allowed Movement											
			Eastbound			Westbound			Northbound			Southbound		
3. Terrace Street & Ardmore Avenue		TWSC - EB/WB Stops	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
AM Peak	C. 2033 Total Traffic (See Exhibit 6)	• LOS	>	B	<	-	-	B	-	-	-	A	-	-
		• Delay	-	12.4	-	-	-	10.9	-	-	-	8.3	-	-
		• 95th Queue Length (ft)	-	3	-	-	-	3	-	-	-	3	-	-
		• Approach LOS (Delay)		B (12.4)			B (10.9)			-			A (0.5)	
PM Peak	C. 2033 Total Traffic (See Exhibit 6)	• LOS	>	B	<	-	-	B	-	-	-	A	-	-
		• Delay	-	14.4	-	-	-	11.3	-	-	-	8.5	-	-
		• 95th Queue Length (ft)	-	3	-	-	-	3	-	-	-	3	-	-
		• Approach LOS (Delay)		B (14.4)			B (11.3)			-			A (0.5)	

Intersection / Timeframe		Roadway Conditions	Movement Group By Approach											
			> = Shared Lane - = Non Critical or Not Allowed Movement											
			Eastbound			Westbound			Northbound			Southbound		
4. Beverly Avenue & Parking Garage		TWSC - EB Stop	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
AM Peak	C. 2033 Total Traffic (See Exhibit 6)	• LOS	.	A	<	-	-	-	A	-	-	-	-	-
		• Delay	-	7.4	-	-	-	-	7.3	-	-	-	-	-
		• 95th Queue Length (ft)	-	0	-	-	-	-	0	-	-	-	-	-
		• Approach LOS (Delay)		A (0.5)			-			A (0.9)			-	
PM Peak	C. 2033 Total Traffic (See Exhibit 6)	• LOS	>	A	<	-	-	-	A	-	-	-	-	-
		• Delay	-	9.4	-	-	-	-	7.3	-	-	-	-	-
		• 95th Queue Length (ft)	-	3	-	-	-	-	0	-	-	-	-	-
		• Approach LOS (Delay)		A (9.4)			-			A (2.7)			-	

Table 5: Level-of-Service Summary (cont.)

Intersection / Timeframe		Roadway Conditions	Movement Group By Approach > = Shared Lane - = Non Critical or Not Allowed Movement											
			Eastbound			Westbound			Northbound			Southbound		
5. Terrace Street & Parking Garage		**TWSC - SB Stop**	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
AM Peak	**C. 2033 Total Traffic (See Exhibit 6)**	• LOS	**A**	**A**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**>**	**A**	**<**
		• Delay	7.3	0.1	-	-	-	-	-	-	-	-	9.0	-
		• 95th Queue Length (ft)	0	-	-	-	-	-	-	-	-	-	3	0
		• Approach LOS (Delay)		**A (1.8)**			**-**			**-**			**A (9.0)**	
PM Peak	**C. 2033 Total Traffic (See Exhibit 6)**	• LOS	**A**	**A**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**>**	**A**	**<**
		• Delay	7.3	0.2	-	-	-	-	-	-	-	-	9.1	-
		• 95th Queue Length (ft)	3	-	-	-	-	-	-	-	-	-	3	0
		• Approach LOS (Delay)		**A (4.1)**			**-**			**-**			**A (9.1)**	

Capacity analysis summary printouts are provided in ***Appendix G***.

The following summarizes the findings of the Capacity Analyses.

Ardmore Avenue and Vermont Street
Under both existing and future traffic conditions (No-Build and Total), the all-way stop controlled intersection of Ardmore Avenue and Vermont Street operates at an overall acceptable LOS "D" or better during both the weekday AM peak hour and weekday PM peak hour.

Discussion Point. During the PM peak hour, the southbound through movement at this intersection is expected to operate with capacity constraints and experience longer than desirable delays. However, it should be remembered that none of the available discounts on trips were taken for pass-by or walking trips. Thus, no changes to the existing operations are anticipated to accommodate the development traffic.

Vermont Street and Beverly Avenue
Under existing and future (No-Build and Total) traffic conditions, the northbound approach of the unsignalized intersection of Vermont Street and Beverly Avenue operates at an overall LOS "B" or better during both the weekday AM peak hour and weekday PM peak hour.

Terrace Street and Ardmore Avenue
Under future (Total) traffic conditions, the eastbound and westbound approach of the intersection at Terrace Street and Ardmore Avenue operates at an overall LOS "B" during both the weekday AM peak hour and weekday PM peak hour. No changes to the proposed operations are required to accommodate the development traffic.

Beverly Avenue and Parking Garage
Under future (Total) traffic conditions, the eastbound approach of the intersection at Beverly Avenue and the Site Parking Garage operates at an overall LOS "A" during both the weekday AM peak hour and weekday PM peak hour. No changes to the proposed operations are required to accommodate the development traffic.

Terrace Street and Parking Garage
Under future (Total) traffic conditions, the southbound approach of the intersection at Terrace Street and the Site Parking Garage operates at an overall LOS "A" during both the weekday AM peak hour and weekday PM peak hour. No changes to the proposed operations are required to accommodate the development traffic.

Parking Supply & Demand

A new parking lot has been constructed immediately east of the site across Beverly Avenue to replace the existing portion of the Metra parking lot that the building is occupying. This parking lot provides 49 off-street spaces and is connected to the existing METRA parking lot. Furthermore, 12 angled parking spaces will be constructed along Beverly Avenue that border the west side of the new parking lot. In total, the new 61 surface parking spaces will replace the 55 parking spaces that previously existed for a net gain of four new parking spaces in the METRA parking lot.

The Villa Park zoning code requires one parking space to be provided for each bedroom, which is more than what is typically found at a TOD development such as the Garden Station Apartments. One parking space per dwelling unit is a typical requirement for this development. There will be 421 parking spaces inside the building to serve the 348 apartments.

Table 6 calculates the required parking spaces per Village Code. As can be seen, using the higher 1 space per bedroom requirement, 418 spaces are required for the residential portion of the development. This can be compared to an estimated Peak Demand of 236 spaces per average demand rates for 1 and 2-bedroom units as published by the ITE.

Table 6: Parking Calculations

Use	Size	ITE Code	Village Code	Parking Spaces		
				Code Required	ITE Projected Demand	Provided
Residential	348 DU 387 BED	221	1 Space per DU 1 Space per BED	348 418	236	440[A]
Strip Retail Plaza (<40k)	2,800 SF	822	1 Space per 250 SF	12	8	
Brew Pub	45 Seats	925	1 Space per 3 Seats	15	25	
			Total:	**445**	**269**	**440**

A) includes 19 on-street spaces along Ardmore Avenue

See ***Appendix H*** for excerpts of the 6th Edition of the ITE manual *Parking Generation.*

Part IV. Recommendations and Conclusions

Analyses have been conducted under existing and future conditions to determine the impact from the proposed mixed-use development on the study area intersections. The capacity analysis results indicate that the increase in project site-generated traffic has little to no effect upon the Peak Hour operations of the area roadway network with the recommendations contained herein:

- The location of the Beverly Avenue parking entrance will be approximately 85' south of Vermont Street.
- The location of the Terrace Street parking entrance will be approximately 75' east of Ardmore Avenue.
- Westbound left turns at Ardmore Avenue and Terrace Street will be prohibited.
- Both parking accesses will operate under Stop Sign Control.

GEWALT HAMILTON ASSOCIATES, INC.

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Not to Scale

Exhibit 7
Future Traffic Operations

Part V. Technical Addendum

The following Appendices were previously referenced. They provide technical support for our observations, findings and recommendations discussed in the text.

Appendices

A. Photo Inventory
B. 2025 Traffic Count Summaries
C. Crash Summary Map
D. CMAP Traffic Projections
E. January 22, 2022, Site Plan
F. ITE Trip Generation Manual Excerpts
G. Capacity Analysis Worksheets
H. ITE Parking Generation Manual Excerpts

5732.942 Garden Station Apts - 050525.docx

TECHNICAL ADDENDUM

GEWALT HAMILTON ASSOCIATES, INC.

APPENDICES

A. PHOTO INVENTORY
B. 2025 TRAFFIC COUNT SUMMARY REPORTS
C. CRASH SUMMARY MAP
D. CMAP 2050 TRAFFIC PROJECTIONS
E. JANUARY 24, 2022, SITE PLAN
F. ITE TRIP GENERATION MANUAL EXCERPTS
G. CAPACITY ANALYSIS WORKSHEETS
H. ITE PARKING GENERATION MANUAL EXCERPTS

APPENDIX A

Photo Inventory

Looking North along Ardmore approaching Railroad and Terrace St

Looking North across Railroad approaching Terrace St along Ardmore

Looking South along Ardmore approaching Railroad

Looking North across Metra Lot/Terrace St at Site

Looking North along Ardmore Rd approaching Terrace St

Looking South along Ardmore Rd approaching Terrace St

Looking East along Terrace St approaching Ardmore Rd

Looking West along Terrace St approaching Ardmore Rd

Looking North along Ardmore Rd approaching Vermont St

Looking South along Ardmore Rd approaching Vermont St

Looking East along Vermont St approaching Ardmore Rd

Looking West along Vermont St approaching Ardmore Rd

Looking North along Metra Lot/Beverly approaching Metra Lot/Terrace

Looking South along Metra Lot/Beverly approaching Metra Lot/Terrace

Looking East along Metra Lot/Terrace approaching Metra Lot/Beverly

Looking West along Metra Lot/Terrace approaching Metra Lot/Beverly

Looking North along Beverly Ave approaching Vermont St

Looking South along Beverly Ave approaching Vermont St

Looking East along Vermont St approaching Beverly Ave

Looking West along Vermont St approaching Beverly Ave

APPENDIX B

2025 Traffic Count Summary Reports

GEWALT HAMILTON ASSOCIATES, INC.

Ardmore Ave at Vermont St
5732.942 Villa Park
7-9AM; 4-6PM
GHA Mio

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 poster@gha-engineers.com

Count Name: Ardmore Ave at Vermont St
Site Code:
Start Date: 04/17/2025
Page No: 1

Turning Movement Data

Start Time	Ardmore Ave Southbound						Vermont St Westbound						Ardmore Ave Northbound						Vermont St Eastbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
7:00 AM	0	3	30	3	0	36	0	12	5	1	3	18	0	7	38	2	0	47	0	2	7	9	0	18	119
7:15 AM	0	0	53	2	0	55	0	12	8	3	2	23	0	11	52	2	0	65	0	6	4	16	1	26	169
7:30 AM	0	7	38	10	0	55	0	10	12	13	2	35	0	16	54	1	1	71	0	10	14	20	0	44	205
7:45 AM	0	3	51	8	0	62	0	8	10	8	1	26	0	27	79	3	0	109	0	7	16	14	0	37	234
Hourly Total	0	13	172	23	0	208	0	42	35	25	8	102	0	61	223	8	1	292	0	25	41	59	1	125	727
8:00 AM	0	6	73	1	1	80	0	6	9	3	0	18	0	18	69	3	4	90	0	9	12	26	1	47	235
8:15 AM	0	1	55	5	0	61	0	4	10	3	1	17	0	8	54	3	2	65	0	13	8	8	1	29	172
8:30 AM	0	5	46	4	0	55	0	6	2	1	0	9	0	6	47	2	1	55	0	5	7	9	1	21	140
8:45 AM	0	2	48	1	0	51	0	5	3	2	0	10	0	9	35	0	0	44	0	4	7	10	1	21	126
Hourly Total	0	14	222	11	1	247	0	21	24	9	1	54	0	41	205	8	7	254	0	31	34	53	4	118	673
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	2	91	10	1	103	0	2	9	0	2	11	0	16	47	5	1	68	0	5	8	16	0	29	211
4:15 PM	0	7	112	2	0	121	0	9	6	4	0	19	0	13	75	5	0	93	0	5	11	18	0	34	267
4:30 PM	0	1	102	2	0	105	0	9	5	3	1	17	0	18	63	8	0	89	0	2	10	12	2	24	235
4:45 PM	0	2	105	8	0	115	0	8	7	5	8	20	0	19	77	7	2	103	0	4	9	22	6	35	273
Hourly Total	0	12	410	22	1	444	0	28	27	12	11	67	0	66	262	25	3	353	0	16	38	68	8	122	986
5:00 PM	0	0	115	6	0	121	0	9	14	9	1	32	0	21	71	7	2	99	0	6	6	19	2	31	283
5:15 PM	0	5	86	2	0	93	0	8	5	1	0	14	0	6	32	6	0	44	0	6	8	13	0	27	178
5:30 PM	0	6	113	2	0	121	0	8	11	1	0	20	0	30	89	7	0	126	0	6	4	10	2	20	287
5:45 PM	0	6	115	3	1	124	0	8	13	16	1	37	0	16	62	6	1	84	0	3	5	7	1	15	260
Hourly Total	0	17	429	13	1	459	0	33	43	27	2	103	0	73	254	26	3	353	0	21	23	49	5	93	1008
Grand Total	0	56	1233	69	3	1358	0	124	129	73	22	326	0	241	944	67	14	1252	0	93	136	229	18	458	3394
Approach %	0.0	4.1	90.8	5.1	-	-	0.0	38.0	39.6	22.4	-	-	0.0	19.2	75.4	5.4	-	-	0.0	20.3	29.7	50.0	-	-	-
Total %	0.0	1.6	36.3	2.0	-	40.0	0.0	3.7	3.8	2.2	-	9.6	0.0	7.1	27.8	2.0	-	36.9	0.0	2.7	4.0	6.7	-	13.5	-
Lights	0	55	1202	66	-	1323	0	120	124	71	-	315	0	237	905	62	-	1204	0	90	126	223	-	439	3281
% Lights	-	98.2	97.5	95.7	-	97.4	-	96.8	96.1	97.3	-	96.6	-	98.3	95.9	92.5	-	96.2	-	96.8	92.6	97.4	-	95.9	96.7
Mediums	0	1	27	3	-	31	0	4	5	2	-	11	0	3	38	5	-	46	0	3	10	6	-	19	107
% Mediums	-	1.8	2.2	4.3	-	2.3	-	3.2	3.9	2.7	-	3.4	-	1.2	4.0	7.5	-	3.7	-	3.2	7.4	2.6	-	4.1	3.2
Articulated Trucks	0	0	4	0	-	4	0	0	0	0	-	0	0	1	1	0	-	2	0	0	0	0	-	0	6
% Articulated Trucks	-	0.0	0.3	0.0	-	0.3	-	0.0	0.0	0.0	-	0.0	-	0.4	0.1	0.0	-	0.2	-	0.0	0.0	0.0	-	0.0	0.2
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	3	-	-	-	-	-	22	-	-	-	-	-	14	-	-	-	-	-	18	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-

Ardmore Ave at Terrace St
5732.942 Villa Park
7-9AM; 4-6PM
GHA Mio

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 poster@gha-engineers.com

Count Name: Ardmore Ave at Terrace St
Site Code:
Start Date: 04/17/2025
Page No: 1

Turning Movement Data

Start Time	Ardmore Ave Southbound						Terrace St Westbound						Ardmore Ave Northbound						Terrace St Eastbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
7:00 AM	0	3	49	0	0	52	0	0	0	0	0	0	0	0	44	2	0	46	0	0	0	4	1	4	102
7:15 AM	0	3	73	2	1	78	0	0	0	0	3	0	0	0	61	4	0	65	0	3	0	6	0	9	152
7:30 AM	0	5	66	1	1	72	0	0	1	0	2	1	0	0	72	17	0	89	0	0	0	6	3	6	168
7:45 AM	0	4	63	4	0	71	0	1	0	0	1	1	0	0	118	7	0	125	0	1	0	2	1	3	200
Hourly Total	0	15	251	7	2	273	0	1	1	0	6	2	0	0	295	30	0	325	0	4	0	18	5	22	622
8:00 AM	0	0	106	0	3	106	0	0	0	1	2	1	0	1	81	13	0	95	0	0	0	3	2	3	205
8:15 AM	0	2	63	1	2	66	0	0	0	0	2	0	0	1	65	2	0	68	0	1	0	5	0	6	140
8:30 AM	0	1	59	5	0	65	0	0	0	0	0	0	1	0	49	3	1	53	0	0	0	1	2	1	119
8:45 AM	0	0	61	0	0	61	0	0	0	0	1	0	0	0	46	0	0	46	0	0	0	4	1	4	111
Hourly Total	0	3	289	6	5	298	0	0	0	1	5	1	1	2	241	18	1	262	0	1	0	13	5	14	575
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	1	105	0	0	106	0	1	0	0	1	1	0	0	77	1	0	78	0	0	0	1	0	1	186
4:15 PM	0	0	139	0	0	139	0	0	0	0	3	0	0	0	84	0	2	84	0	0	0	3	2	3	226
4:30 PM	0	2	117	1	0	120	0	1	0	0	1	1	0	0	85	1	0	86	0	0	0	1	0	1	208
4:45 PM	0	3	127	1	5	131	0	0	0	0	3	0	0	2	107	1	0	110	0	0	0	3	1	3	244
Hourly Total	0	6	488	2	5	496	0	2	0	0	8	2	0	2	353	3	2	358	0	0	0	8	3	8	864
5:00 PM	0	0	144	0	0	144	0	0	0	0	1	0	0	0	94	1	1	95	0	1	0	2	2	3	242
5:15 PM	0	1	98	3	3	102	0	0	0	1	3	1	0	0	48	1	2	49	0	0	0	1	2	1	153
5:30 PM	0	1	137	1	1	139	0	0	0	0	1	0	0	0	131	5	0	136	0	0	0	2	2	2	277
5:45 PM	0	1	121	0	4	122	0	0	0	0	5	0	0	0	78	0	2	78	0	0	0	2	7	2	202
Hourly Total	0	3	500	4	8	507	0	0	0	1	10	1	0	0	351	7	5	358	0	1	0	7	13	8	874
Grand Total	0	27	1528	19	20	1574	0	3	1	2	29	6	1	4	1240	58	8	1303	0	6	0	46	26	52	2935
Approach %	0.0	1.7	97.1	1.2	-	-	0.0	50.0	16.7	33.3	-	-	0.1	0.3	95.2	4.5	-	-	0.0	11.5	0.0	88.5	-	-	-
Total %	0.0	0.9	52.1	0.6	-	53.6	0.0	0.1	0.0	0.1	-	0.2	0.0	0.1	42.2	2.0	-	44.4	0.0	0.2	0.0	1.6	-	1.8	-
Lights	0	27	1490	15	-	1532	0	3	0	2	-	5	1	4	1189	58	-	1252	0	6	0	43	-	49	2838
% Lights	-	100.0	97.5	78.9	-	97.3	-	100.0	0.0	100.0	-	83.3	100.0	100.0	95.9	100.0	-	96.1	-	100.0	-	93.5	-	94.2	96.7
Mediums	0	0	34	4	-	38	0	0	0	0	-	0	0	0	49	0	-	49	0	0	0	0	-	0	87
% Mediums	-	0.0	2.2	21.1	-	2.4	-	0.0	0.0	0.0	-	0.0	0.0	0.0	4.0	0.0	-	3.8	-	0.0	-	0.0	-	0.0	3.0
Articulated Trucks	0	0	4	0	-	4	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	1	-	1	6
% Articulated Trucks	-	0.0	0.3	0.0	-	0.3	-	0.0	0.0	0.0	-	0.0	0.0	0.0	0.1	0.0	-	0.1	-	0.0	-	2.2	-	1.9	0.2
Bicycles on Road	0	0	0	0	-	0	0	0	1	0	-	1	0	0	1	0	-	1	0	0	0	2	-	2	4
% Bicycles on Road	-	0.0	0.0	0.0	-	0.0	-	0.0	100.0	0.0	-	16.7	0.0	0.0	0.1	0.0	-	0.1	-	0.0	-	4.3	-	3.8	0.1
Pedestrians	-	-	-	-	20	-	-	-	-	-	29	-	-	-	-	-	8	-	-	-	-	-	26	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-

Beverly Ave at Vermont St
5732.942 Villa Park
7-9AM; 4-6PM
GHA Mio

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 poster@gha-engineers.com

Count Name: Beverly Ave at Vermont St
Site Code:
Start Date: 04/17/2025
Page No: 1

Turning Movement Data

Start Time	Beverly Ave Southbound						Vermont St Westbound						Beverly Ave Northbound						Vermont St Eastbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
7:00 AM	0	1	0	4	0	5	0	0	8	0	0	8	0	3	2	0	0	5	0	1	7	3	0	11	29
7:15 AM	0	1	0	3	0	4	0	0	18	0	0	18	0	0	0	0	0	0	0	1	7	0	0	8	30
7:30 AM	0	1	3	2	0	6	0	1	23	0	1	24	0	9	0	3	0	12	0	1	13	7	0	21	63
7:45 AM	0	1	0	1	0	2	0	0	20	0	0	20	0	6	1	0	3	7	0	3	19	2	0	24	53
Hourly Total	0	4	3	10	0	17	0	1	69	0	1	70	0	18	3	3	3	24	0	6	46	12	0	64	175
8:00 AM	0	1	1	2	0	4	0	0	13	0	0	13	0	3	0	0	0	3	0	1	14	5	0	20	40
8:15 AM	0	0	0	0	0	0	0	0	13	0	0	13	0	4	0	0	1	4	0	0	12	1	0	13	30
8:30 AM	0	0	0	0	0	0	0	0	5	1	0	6	0	3	1	0	1	4	0	0	12	3	0	15	25
8:45 AM	0	0	0	0	0	0	0	1	10	0	0	11	0	0	0	0	0	0	0	0	9	0	0	9	20
Hourly Total	0	1	1	2	0	4	0	1	41	1	0	43	0	10	1	0	2	11	0	1	47	9	0	57	115
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	1	0	0	0	1	0	0	10	1	0	11	0	1	0	0	0	1	0	1	12	0	0	13	26
4:15 PM	0	1	1	2	0	4	0	0	14	0	0	14	0	4	0	0	0	4	0	3	19	3	0	25	47
4:30 PM	0	0	0	0	0	0	0	0	17	1	1	18	0	2	1	0	0	3	0	1	14	3	0	18	39
4:45 PM	0	0	0	1	0	1	0	0	15	0	0	15	0	2	0	0	0	2	0	1	14	1	0	16	34
Hourly Total	0	2	1	3	0	6	0	0	56	2	1	58	0	9	1	0	0	10	0	6	59	7	0	72	146
5:00 PM	0	0	1	0	0	1	0	1	26	0	0	27	0	6	1	1	1	8	0	2	11	0	0	13	49
5:15 PM	0	0	0	1	0	1	0	0	15	0	0	15	0	2	0	0	0	2	0	0	23	1	0	24	42
5:30 PM	0	0	0	0	0	0	0	0	14	0	1	14	0	3	0	0	0	3	0	2	11	1	0	14	31
5:45 PM	0	0	0	3	2	3	0	0	28	1	0	29	0	6	0	0	1	6	0	0	17	0	1	17	55
Hourly Total	0	0	1	4	2	5	0	1	83	1	1	85	0	17	1	1	2	19	0	4	62	2	1	68	177
Grand Total	0	7	6	19	2	32	0	3	249	4	3	256	0	54	6	4	7	64	0	17	214	30	1	261	613
Approach %	0.0	21.9	18.8	59.4	-	-	0.0	1.2	97.3	1.6	-	-	0.0	84.4	9.4	6.3	-	-	0.0	6.5	82.0	11.5	-	-	-
Total %	0.0	1.1	1.0	3.1	-	5.2	0.0	0.5	40.6	0.7	-	41.8	0.0	8.8	1.0	0.7	-	10.4	0.0	2.8	34.9	4.9	-	42.6	-
Lights	0	6	6	16	-	28	0	3	240	4	-	247	0	54	5	4	-	63	0	16	200	28	-	244	582
% Lights	-	85.7	100.0	84.2	-	87.5	-	100.0	96.4	100.0	-	96.5	-	100.0	83.3	100.0	-	98.4	-	94.1	93.5	93.3	-	93.5	94.9
Mediums	0	1	0	3	-	4	0	0	9	0	-	9	0	0	1	0	-	1	0	1	14	1	-	16	30
% Mediums	-	14.3	0.0	15.8	-	12.5	-	0.0	3.6	0.0	-	3.5	-	0.0	16.7	0.0	-	1.6	-	5.9	6.5	3.3	-	6.1	4.9
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	1	-	1	1
% Bicycles on Road	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	3.3	-	0.4	0.2
Pedestrians	-	-	-	-	2	-	-	-	-	-	3	-	-	-	-	-	7	-	-	-	-	-	1	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-

Beverly Ave at Terrace St/METRA
5732.942 Villa Park
7-9AM; 4-6PM
GHA Mio

Gewalt Hamilton Associates Inc.
625 Forest Edge Drive

Vernon Hills, Illinois, United States 60061
(847) 478-9700 poster@gha-engineers.com

Count Name: Beverly Ave at Terrace St/METRA
Site Code:
Start Date: 04/17/2025
Page No: 1

Turning Movement Data

Start Time	Metra Southbound					Terrace St Westbound					Terrace St Eastbound					
	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	4	5	0	9	10
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	4
7:30 AM	0	2	0	0	2	0	0	1	0	1	0	11	12	0	23	26
7:45 AM	0	1	1	0	2	0	0	1	2	1	0	3	9	0	12	15
Hourly Total	0	4	1	0	5	0	0	2	2	2	0	18	30	0	48	55
8:00 AM	0	1	1	0	2	0	1	0	2	1	0	5	9	0	14	17
8:15 AM	0	1	1	3	2	0	1	0	0	1	0	2	4	0	6	9
8:30 AM	0	1	0	0	1	0	0	1	0	1	0	2	3	0	5	7
8:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	0	4	2	3	6	0	2	1	2	3	0	9	16	0	25	34
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	0	0	0	0	0	1	0	0	1	0	1	1	0	2	3
4:15 PM	0	0	1	0	1	0	0	2	0	2	0	0	1	0	1	4
4:30 PM	0	1	2	0	3	0	0	1	1	1	0	0	1	0	1	5
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	2	1	3	4
Hourly Total	0	2	3	0	5	0	1	3	1	4	0	2	5	1	7	16
5:00 PM	0	1	1	1	2	0	0	0	0	0	0	3	1	0	4	6
5:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	2
5:30 PM	0	0	0	0	0	0	1	0	0	1	0	1	5	0	6	7
5:45 PM	0	0	0	3	0	0	0	0	0	0	0	2	1	0	3	3
Hourly Total	0	2	1	4	3	0	1	0	0	1	0	6	8	0	14	18
Grand Total	0	12	7	7	19	0	4	6	5	10	0	35	59	1	94	123
Approach %	0.0	63.2	36.8	-	-	0.0	40.0	60.0	-	-	0.0	37.2	62.8	-	-	-
Total %	0.0	9.8	5.7	-	15.4	0.0	3.3	4.9	-	8.1	0.0	28.5	48.0	-	76.4	-
Lights	0	12	7	-	19	0	4	5	-	9	0	35	58	-	93	121
% Lights	-	100.0	100.0	-	100.0	-	100.0	83.3	-	90.0	-	100.0	98.3	-	98.9	98.4
Mediums	0	0	0	-	0	0	0	1	-	1	0	0	0	-	0	1
% Mediums	-	0.0	0.0	-	0.0	-	0.0	16.7	-	10.0	-	0.0	0.0	-	0.0	0.8
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	1	-	1	1
% Bicycles on Road	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	1.7	-	1.1	0.8
Pedestrians	-	-	-	7	-	-	-	-	5	-	-	-	-	1	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	100.0	-	-	-	-	100.0	-	-

APPENDIX C

Crash Summary Map

N

1 inch = 150 Feet

Map Center: 87.97798°W 41.89652°N

Appendix C - IDOT Crash Data 2019-23

Proposed Garden Station Apartments
SEC Ardmore Ave at E Vermont St
Villa Park, IL

APPENDIX D

CMAP Traffic Projections

Chicago Metropolitan Agency for Planning

433 West Van Buren Street, Suite 450
Chicago, IL 60607
cmap.illinois.gov | 312-454-0400

April 16, 2025

Daniel P. Brinkman, PE, PTOE
Senior Transportation Engineer
Gewalt Hamilton Associates
625 Forest Edge Drive
Vernon Hills, IL 60061

Subject: Ardmore Avenue - IL 64 - Vermont Street
IDOT

Dear Mr. Brinkman:

In response to a request made on your behalf and dated April 16, 2025, we have developed year 2050 average daily traffic (ADT) projections for the subject location.

ROAD SEGMENT	Current ADT	Year 2050 ADT
Ardmore Ave south of IL 64	7,550 (2017)	9,400
IL 64 east of Ardmore Ave	44,000 (2023)	47,500

Traffic projections are developed using existing ADT data provided in the request letter and the results from the December 2024 CMAP Travel Demand Analysis. The regional travel model uses CMAP 2050 socioeconomic projections and assumes the implementation of the ON TO 2050 Comprehensive Regional Plan for the Northeastern Illinois area. The provision of this data in support of your request does not constitute a CMAP endorsement of the proposed development or any subsequent developments.

If you have any questions, please call me at (312) 386-8806 or email me at jrodriguez@cmap.illinois.gov

Jose Rodriguez, PTP, AICP
Senior Planner, Research & Analysis

cc: Rios (IDOT)
\2025_trafficForecasts\VillaPark\du-25-25\du-25-25.docx

APPENDIX E

January 2022 Site Plan

GEWALT HAMILTON ASSOCIATES, INC.

6" BARRIER CURB RETURNS DEPRESSED CURB & GUTTER ALONG VERMONT STREET

VERMONT STREET

N 87°42'40" E 289.75'

35.06'

R10'

5.18'

5.11'

5.75'

7.43'

6.92'

26.17'

FF=688.66

14'

FF=686.98

48.29'

5.00'

R10'

BEVERLY AVENUE
(50') RIGHT OF WAY

FF=688.98

420.98'

S 01°13'10" W

FF=691.98

FF=691.99

453.95'

N 01°13'10" E

1.00'

FF=692.88

Asphalt Surface w/B6-12 Curb & Gutter

FF=694.98

FF=695.15

FF=693.52

FF=693.33

FF=694.66

FF=693.33

5.00'

R10'

R18'

293.75'

S 87°16'24" W

47.77'

4.93'

TERRACE STREET
(50') RIGHT OF WAY

Asphalt Surface w/B6-12 Curb & Gutter

UNION PACIFIC RAILROAD

24" WHITE PAINTED STOP BAR AND STOP SIGN – 30"

6" BARRIER CURB RETURNS DEPRESSED CURB & GUTTER ALONG TERRACE STREET

6" BARRIER CURB RETURNS DEPRESSED CURB & GUTTER ALONG BEVERLY AVENUE

BEVERLY AVE ACCESS TO FIRST FLOOR

24" WHITE PAINTED STOP BAR AND STOP SIGN – 30"

18"x12" PEDESTRIAN CROSSING SIGN 4

12" WHITE PAINTED CROSSWALK LINE (6' WIDE, 2' LINE SPACING) 4

18"x12" PEDESTRIAN CROSSING SIGN 4

12 ASPHALT PARKING STALLS WITH CURB STOPS (30" ANGLE)

PROPOSED STREET LIGHT TO MATCH EXISTING PARKING LOT LIGHT (TYP.)

PERMEABLE PAVER PARKING LOT (51 STALLS). SEE DETAIL ON SHEET 11.

4" WHITE PAINTED LINE (TYP.)

6" BARRIER CURB

ONE-WAY TRAFFIC ARROW (TYP.)

6' LONG WHITE PAINTED DIRECTIONAL ARROW (TYP.)

6" BARRIER CURB FLUSH WITH ASPHALT

6" BARRIER CURB (TYP.)

24"x24" DO NOT ENTER SIGNS (TYP) 4

6" BARRIER CURB FLUSH WITH ASPHALT

4" WHITE STRIPED ISLAND – 12" WIDE 4

REMOVE STRIPING FOR NEW ACCESS

SEE ARCHITECTURAL PLANS FOR PARKING GARAGE DETAILS

358 L.F. OF NEW CURB AND GUTTER 4

N

Appendix E

4 NOTE:
1.5' OF PAVEMENT SHALL BE REMOVED & REPLACED ALONG ALL EXISTING CURB TO BE REMOVED & REPLACED.

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PREPARED FOR:
HAWTHORNE DEVELOPMENT CORPORATION
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235-6647

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60502-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	06-23-21/DDD	REVISED PER BUILDING LAYOUT (ALL)			
2	09-02-21/DDD	REVISED PER VILLAGE REVIEW DATED 07-23-21			
3	09-29-21/BCD	REVISED PER IEPA REVIEW			
4	11-16-21/BCD	REVISED PER VILLAGE REVIEW DATED 11-12-21			
5	01-24-22/BCD	REVISED PER VILLAGE REVIEW DATED 01-21-22			

GEOMETRIC PLAN

GARDEN STATION APARTMENTS

FILE NAME: GEOMETRIC	DSGN. BY: KTS	JOB NO.: 904.351	FLD. BK./PG.:	SHEET NO.
DIR: 904351	DRN. BY: KMS	DATE: 07-27-2020	SCALE: 1" = 30'	07 of 13

PLOT FILE CREATED: 1/24/2022 1:53 PM BY BRANDON DAVID DRAWING LAST SAVED: 1/24/2022 12:17 PM BY BRANDON DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\FINAL DRAFTING\GEOMETRIC.DWG

APPENDIX F

ITE Trip Generation Manual Excerpts

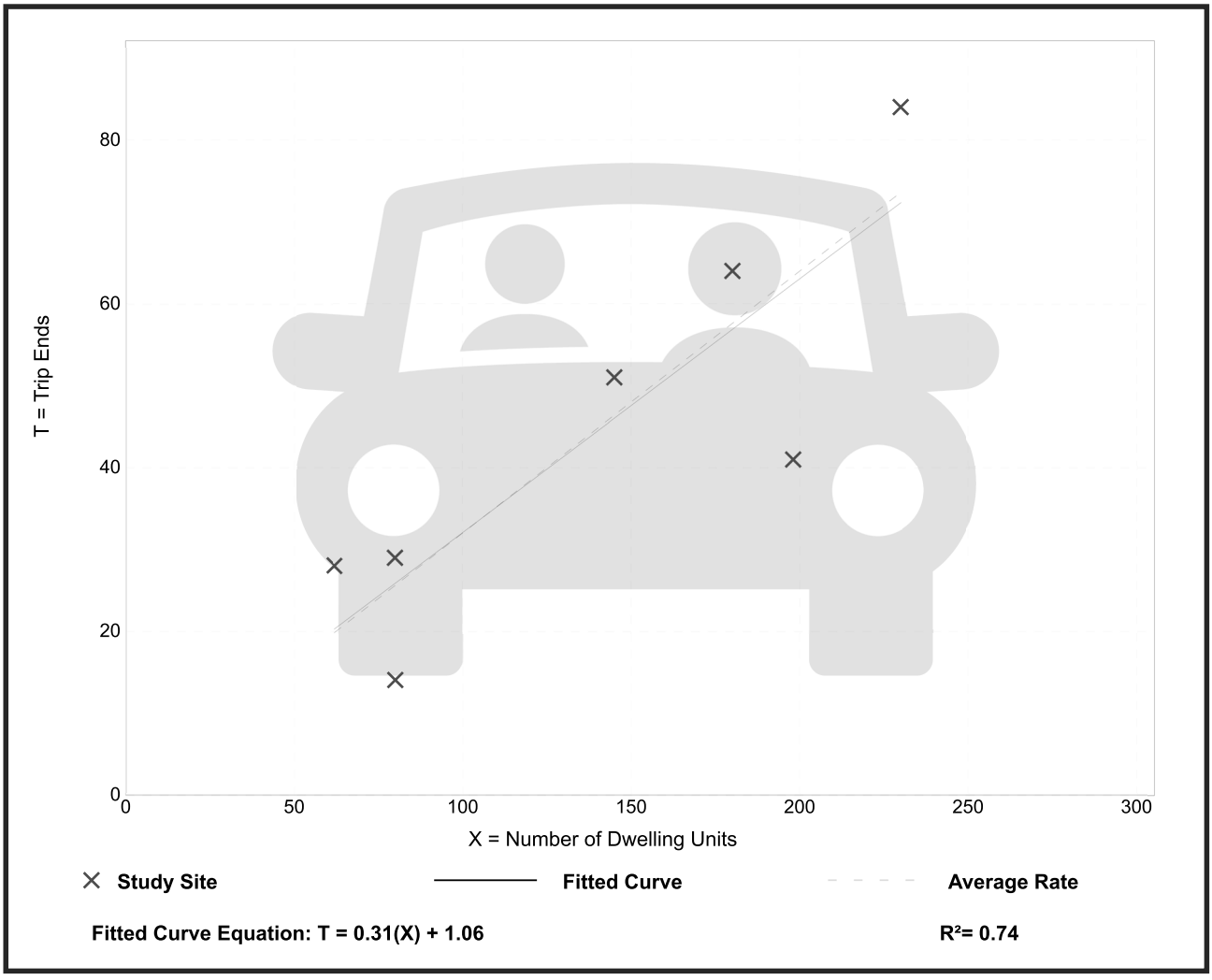
Multifamily Housing (Mid-Rise)
Close to Rail Transit (221)

Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 7
Avg. Num. of Dwelling Units: 139
Directional Distribution: 36% entering, 64% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.32	0.18 - 0.45	0.09

Data Plot and Equation



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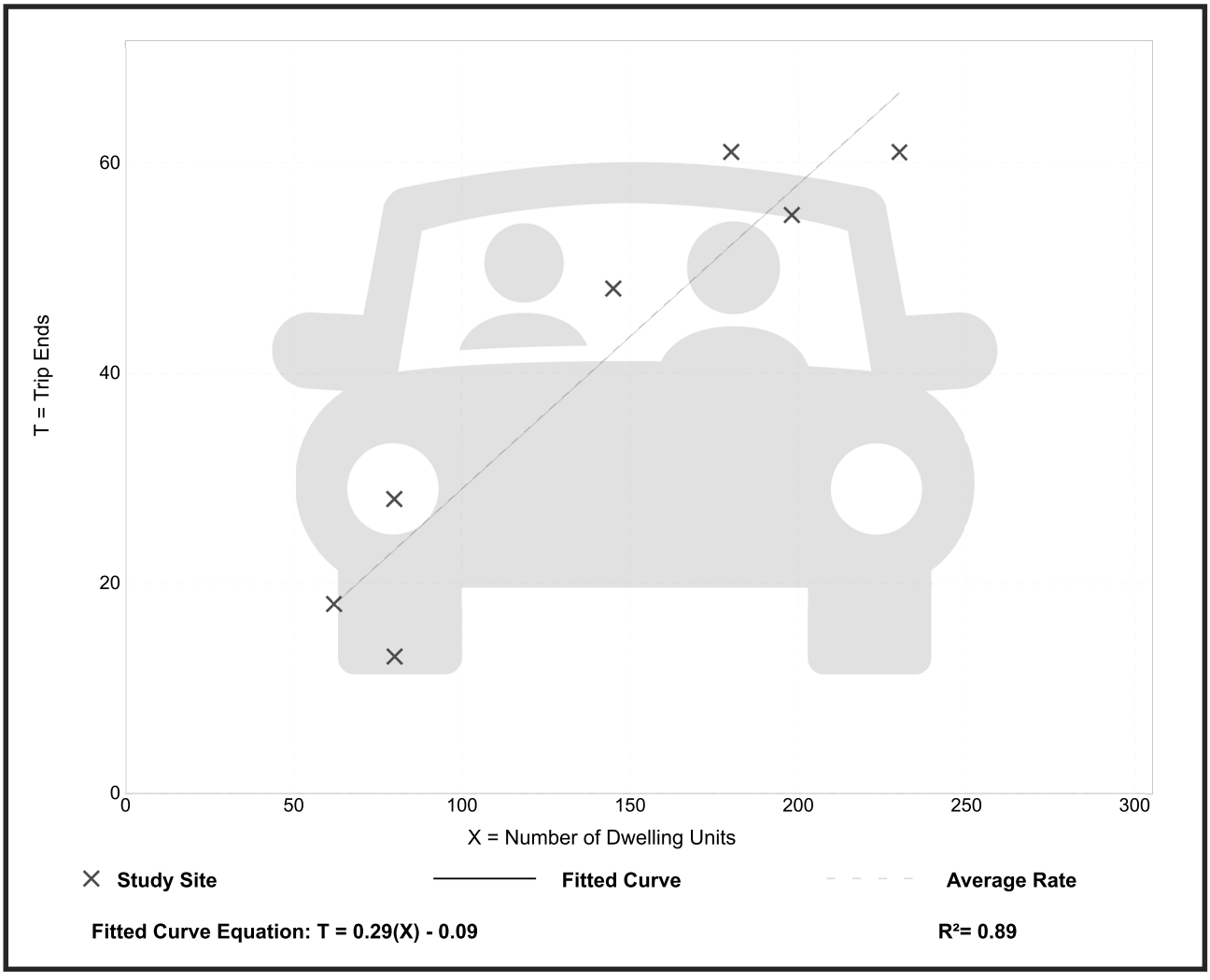
Multifamily Housing (Mid-Rise)
Close to Rail Transit (221)

Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 7
Avg. Num. of Dwelling Units: 139
Directional Distribution: 65% entering, 35% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.29	0.16 - 0.35	0.05

Data Plot and Equation



Trip Gen Manual, 11th Edition ● Institute of Transportation Engineers

Multifamily Housing (Mid-Rise)
Close to Rail Transit (221)

Vehicle Trip Ends vs: **Dwelling Units**
On a: **Weekday**

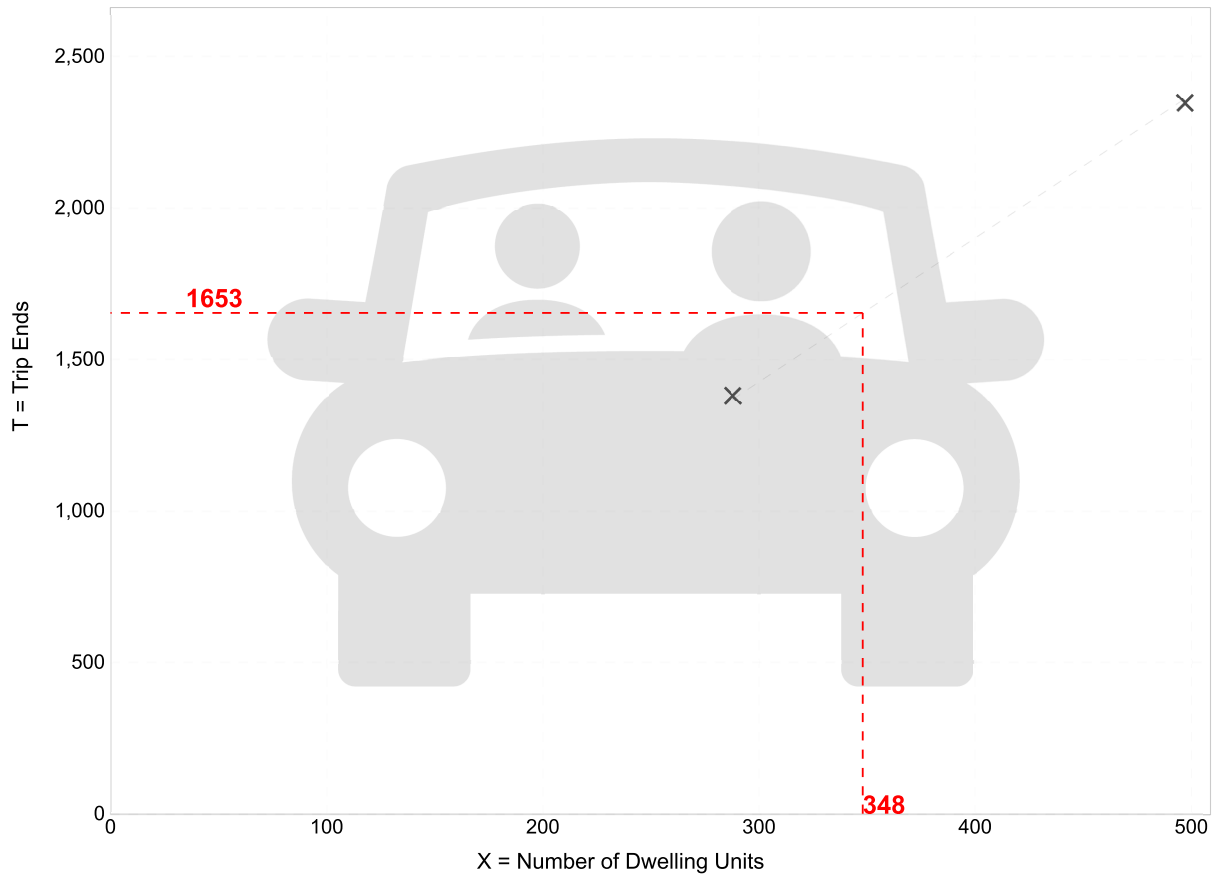
Setting/Location: **General Urban/Suburban**
Number of Studies: 2
Avg. Num. of Dwelling Units: 393
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
4.75	4.72 - 4.79	*

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: Not Given

R^2= **

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Strip Retail Plaza (<40k)
(822)

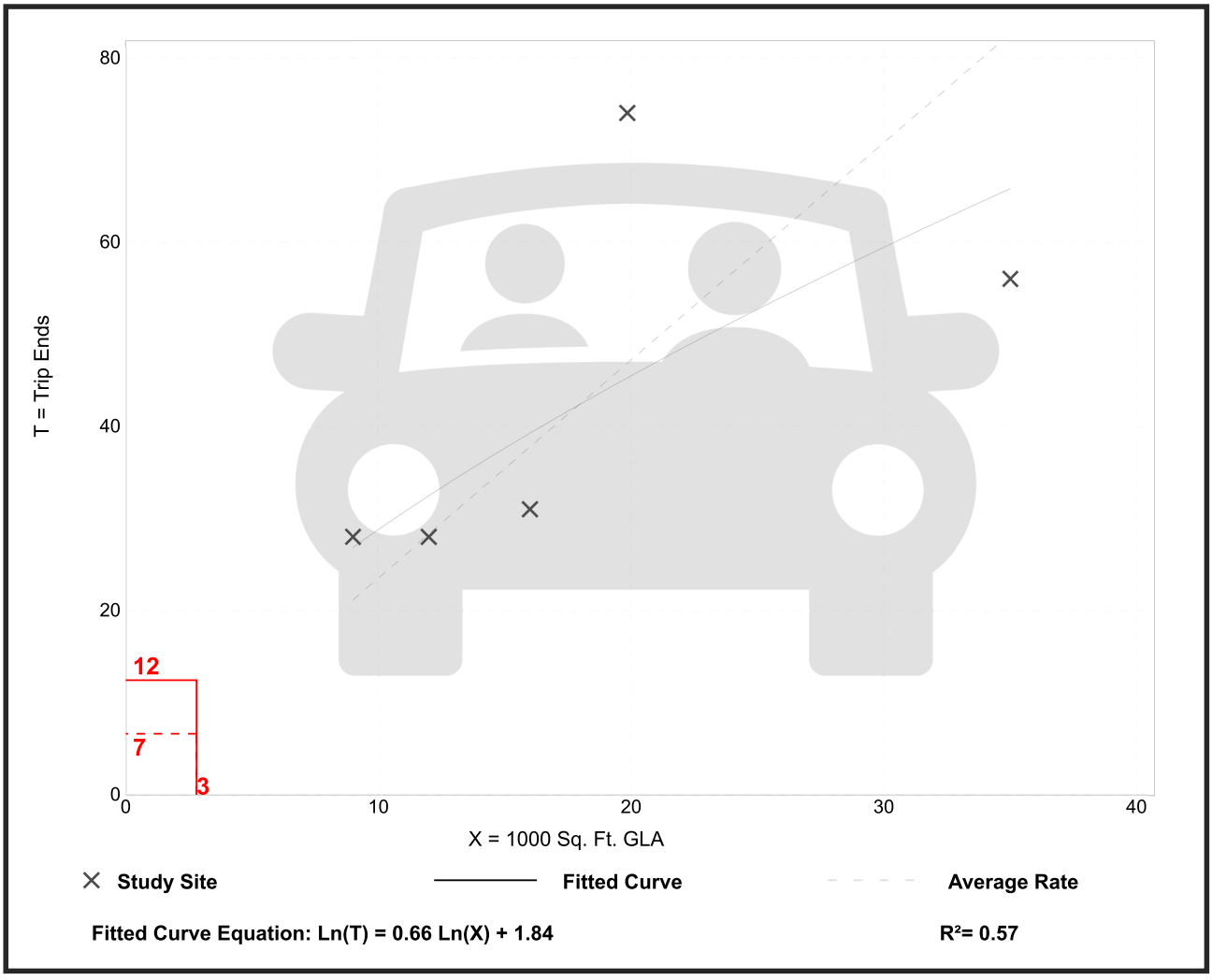
Vehicle Trip Ends vs: **1000 Sq. Ft. GLA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 5
Avg. 1000 Sq. Ft. GLA: 18
Directional Distribution: 60% entering, 40% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
2.36	1.60 - 3.73	0.94

Data Plot and Equation

Caution – Small Sample Size



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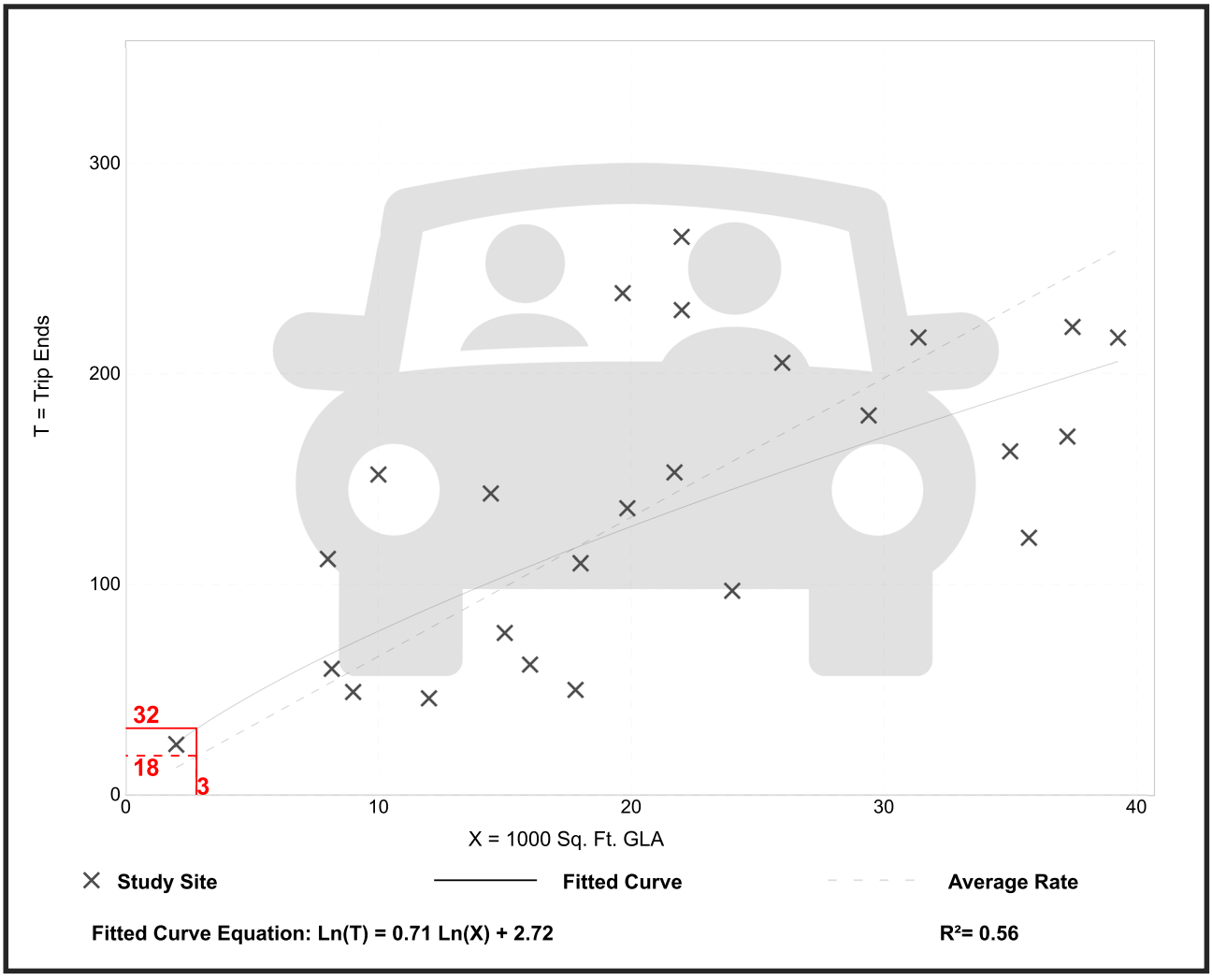
Strip Retail Plaza (<40k)
(822)

Vehicle Trip Ends vs: **1000 Sq. Ft. GLA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 25
Avg. 1000 Sq. Ft. GLA: 21
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
6.59	2.81 - 15.20	2.94

Data Plot and Equation



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Strip Retail Plaza (<40k)
(822)

Vehicle Trip Ends vs: **1000 Sq. Ft. GLA**
On a: **Weekday**

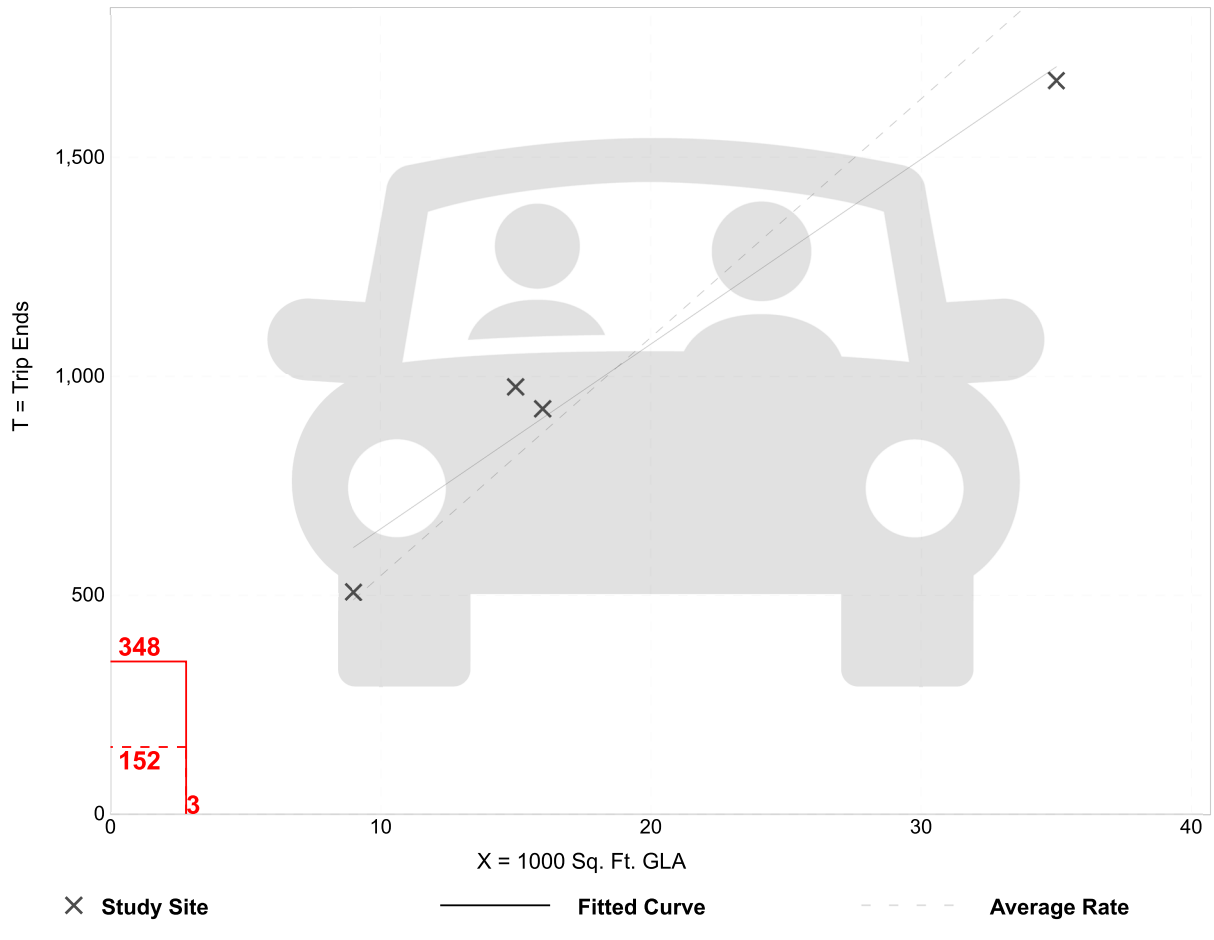
Setting/Location: **General Urban/Suburban**
Number of Studies: 4
Avg. 1000 Sq. Ft. GLA: 19
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
54.45	47.86 - 65.07	7.81

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: T = 42.20(X) + 229.68

R^2= 0.96

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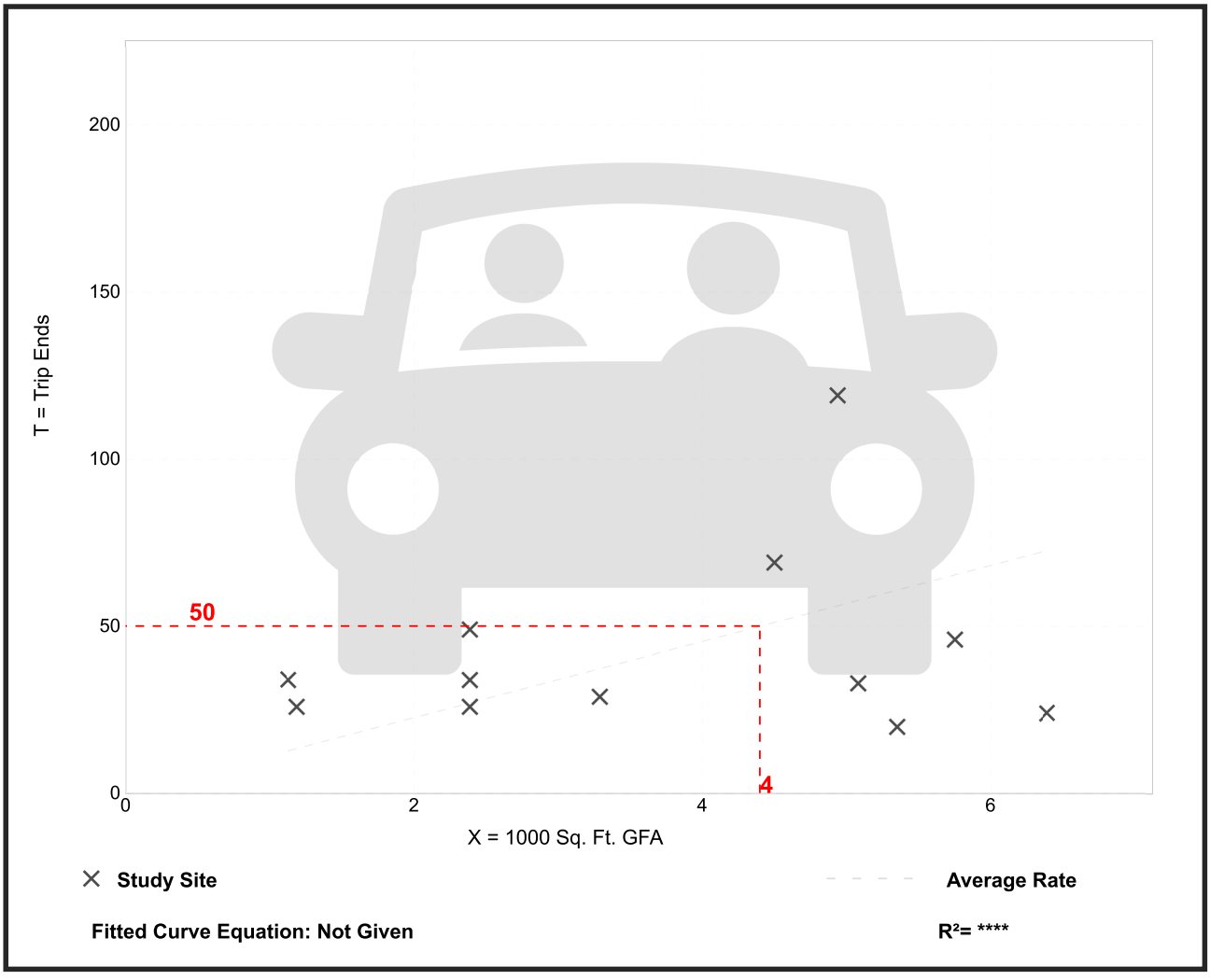
Drinking Place
(975)

Vehicle Trip Ends vs:	**1000 Sq. Ft. GFA**
On a:	**Weekday,**
	Peak Hour of Adjacent Street Traffic,
	One Hour Between 4 and 6 p.m.
Setting/Location:	**General Urban/Suburban**
Number of Studies:	12
Avg. 1000 Sq. Ft. GFA:	4
Directional Distribution:	66% entering, 34% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
11.36	3.74 - 30.09	7.81

Data Plot and Equation



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APPENDIX G

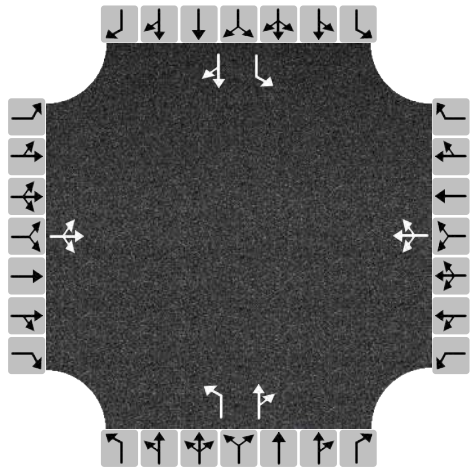
Capacity Analysis Worksheets

GEWALT HAMILTON ASSOCIATES, INC.

General and Site Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2025
Analysis Time Period (hrs)	0.25
Time Analyzed	EX AM
Project Description	5732.942
Intersection	Ardmore Ave & Vermont St
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Ardmore Avenue
Peak Hour Factor	0.90

Lanes



Turning Movement Demand Volumes

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume (veh/h)	39	50	68	32	41	27	69	258	10	17	227	24
% Thrus in Shared Lane												

Lane Flow Rate and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	174			111			77	298		19	279	
Percent Heavy Vehicles	7			3			4	6		0	4	
Initial Departure Headway, h_d (s)	3.20			3.20			3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x	0.155			0.099			0.068	0.265		0.017	0.248	
Final Departure Headway, h_d (s)	5.80			5.99			6.37	5.87		6.41	5.90	
Final Degree of Utilization, x	0.281			0.185			0.136	0.486		0.034	0.457	
Move-Up Time, m (s)	2.0			2.0			2.3	2.3		2.3	2.3	
Service Time, t_s (s)	3.80			3.99			4.07	3.57		4.11	3.60	

Capacity, Delay and Level of Service

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	174			111			77	298		19	279	
Capacity (veh/h)	620			601			565	613		562	610	
95% Queue Length, Q_{95} (veh)	1.2			0.7			0.5	2.7		0.1	2.4	
95% Queue Length, Q_{95} (ft)	31.7			17.9			12.9	70.7		2.5	61.9	
Control Delay (s/veh)	11.1			10.3			10.1	14.0		9.3	13.5	
Level of Service, LOS	B			B			B	B		A	B	
Approach Delay (s/veh) | LOS	11.1	B		10.3	B		13.2	B		13.2	B	
Intersection Delay (s/veh) | LOS	12.5						B					

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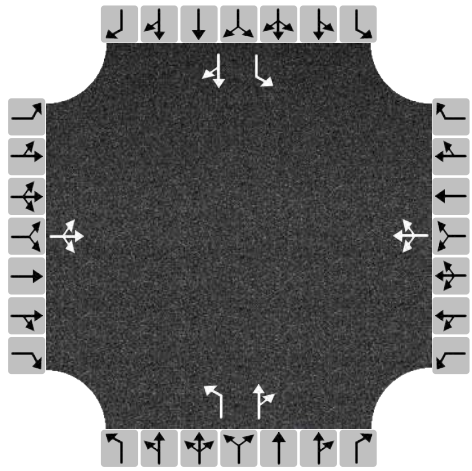
General and Site Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Analysis Time Period (hrs)	0.25
Time Analyzed	2033 NB AM
Project Description	5732.942
Intersection	Ardmore Ave & Vermont St
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Ardmore Avenue
Peak Hour Factor	0.90

Lanes



Turning Movement Demand Volumes

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume (veh/h)	41	53	72	34	44	29	73	274	11	18	241	25
% Thrus in Shared Lane												

Lane Flow Rate and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	184			119			81	317		20	296	
Percent Heavy Vehicles	7			3			4	6		0	4	
Initial Departure Headway, h_d (s)	3.20			3.20			3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x	0.164			0.106			0.072	0.281		0.018	0.263	
Final Departure Headway, h_d (s)	5.96			6.17			6.50	6.00		6.55	6.04	
Final Degree of Utilization, x	0.306			0.204			0.146	0.528		0.036	0.496	
Move-Up Time, m (s)	2.0			2.0			2.3	2.3		2.3	2.3	
Service Time, t_s (s)	3.96			4.17			4.20	3.70		4.25	3.74	

Capacity, Delay and Level of Service

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	184			119			81	317		20	296	
Capacity (veh/h)	604			584			554	600		550	596	
95% Queue Length, Q_{95} (veh)	1.3			0.8			0.5	3.1		0.1	2.8	
95% Queue Length, Q_{95} (ft)	34.3			20.5			12.9	81.2		2.5	72.2	
Control Delay (s/veh)	11.6			10.7			10.3	15.2		9.5	14.5	
Level of Service, LOS	B			B			B	C		A	B	
Approach Delay (s/veh) | LOS	11.6	B		10.7	B		14.2	B		14.2	B	
Intersection Delay (s/veh) | LOS	13.3						B					

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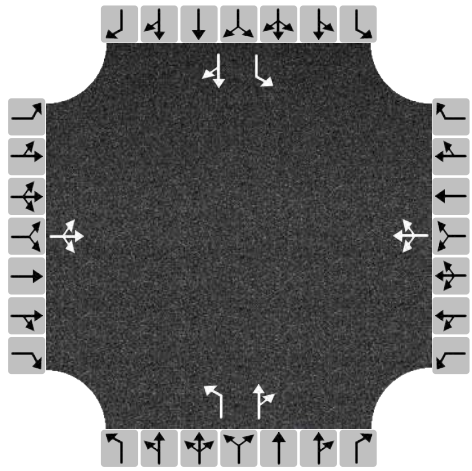
General and Site Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Analysis Time Period (hrs)	0.25
Time Analyzed	2033 TOTAL AM
Project Description	5732.942
Intersection	Ardmore Ave & Vermont St
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Ardmore Avenue
Peak Hour Factor	0.90

Lanes



Turning Movement Demand Volumes

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume (veh/h)	41	57	75	56	50	41	78	288	11	26	249	25
% Thrus in Shared Lane												

Lane Flow Rate and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	192			163			87	332		29	304	
Percent Heavy Vehicles	7			3			4	6		0	4	
Initial Departure Headway, h_d (s)	3.20			3.20			3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x	0.171			0.145			0.077	0.295		0.026	0.271	
Final Departure Headway, h_d (s)	6.27			6.40			6.80	6.30		6.86	6.35	
Final Degree of Utilization, x	0.335			0.290			0.164	0.581		0.055	0.537	
Move-Up Time, m (s)	2.0			2.0			2.3	2.3		2.3	2.3	
Service Time, t_s (s)	4.27			4.40			4.50	4.00		4.56	4.05	

Capacity, Delay and Level of Service

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	192			163			87	332		29	304	
Capacity (veh/h)	574			563			530	572		525	567	
95% Queue Length, Q_{95} (veh)	1.5			1.2			0.6	3.7		0.2	3.2	
95% Queue Length, Q_{95} (ft)	39.6			30.7			15.5	96.9		5.0	82.6	
Control Delay (s/veh)	12.4			12.0			10.8	17.4		10.0	16.2	
Level of Service, LOS	B			B			B	C		A	C	
Approach Delay (s/veh) | LOS	12.4	B		12.0	B		16.0	C		15.6	C	
Intersection Delay (s/veh) | LOS	14.7						B					

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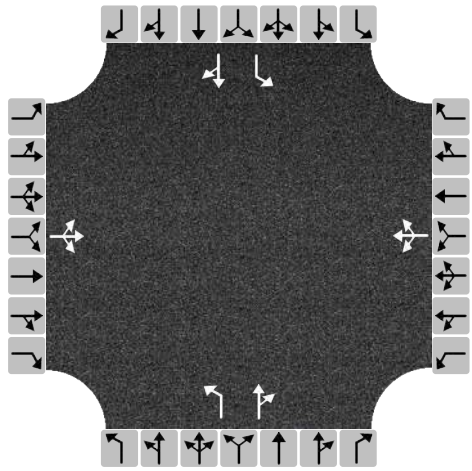
General and Site Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2025
Analysis Time Period (hrs)	0.25
Time Analyzed	EX PM
Project Description	5732.942
Intersection	Ardmore Ave & Vermont St
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Ardmore Avenue
Peak Hour Factor	0.93

Lanes



Turning Movement Demand Volumes

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume (veh/h)	17	36	71	35	48	21	71	286	27	10	434	18
% Thrus in Shared Lane												

Lane Flow Rate and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	133			112			76	337		11	486	
Percent Heavy Vehicles	3			1			0	3		0	2	
Initial Departure Headway, h_d (s)	3.20			3.20			3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x	0.119			0.099			0.068	0.299		0.010	0.432	
Final Departure Headway, h_d (s)	6.30			6.59			6.50	5.99		6.40	5.90	
Final Degree of Utilization, x	0.234			0.205			0.138	0.560		0.019	0.797	
Move-Up Time, m (s)	2.0			2.0			2.3	2.3		2.3	2.3	
Service Time, t_s (s)	4.30			4.59			4.20	3.69		4.10	3.60	

Capacity, Delay and Level of Service

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	133			112			76	337		11	486	
Capacity (veh/h)	571			546			553	601		562	610	
95% Queue Length, Q_{95} (veh)	0.9			0.8			0.5	3.5		0.1	7.8	
95% Queue Length, Q_{95} (ft)	23.0			20.2			12.5	89.6		2.5	198.1	
Control Delay (s/veh)	11.2			11.3			10.2	16.0		9.2	27.8	
Level of Service, LOS	B			B			B	C		A	D	
Approach Delay (s/veh) | LOS	11.2	B		11.3	B		15.0	B		27.4	D	
Intersection Delay (s/veh) | LOS	19.5						C					

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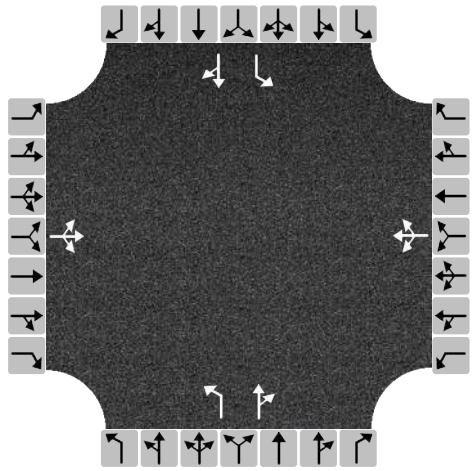
General and Site Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Analysis Time Period (hrs)	0.25
Time Analyzed	2033 NB PM
Project Description	5732.942
Intersection	Ardmore Ave & Vermont St
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Ardmore Avenue
Peak Hour Factor	0.93

Lanes



Turning Movement Demand Volumes

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume (veh/h)	18	38	75	37	51	22	75	304	29	11	461	19
% Thrus in Shared Lane												

Lane Flow Rate and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	141			118			81	358		12	516	
Percent Heavy Vehicles	3			1			0	3		0	2	
Initial Departure Headway, h_d (s)	3.20			3.20			3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x	0.125			0.105			0.072	0.318		0.011	0.459	
Final Departure Headway, h_d (s)	6.53			6.83			6.68	6.16		6.56	6.06	
Final Degree of Utilization, x	0.256			0.224			0.150	0.613		0.022	0.869	
Move-Up Time, m (s)	2.0			2.0			2.3	2.3		2.3	2.3	
Service Time, t_s (s)	4.53			4.83			4.38	3.86		4.26	3.76	

Capacity, Delay and Level of Service

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	141			118			81	358		12	516	
Capacity (veh/h)	551			527			539	584		548	594	
95% Queue Length, Q_{95} (veh)	1.0			0.9			0.5	4.1		0.1	9.9	
95% Queue Length, Q_{95} (ft)	25.6			22.7			12.5	105.0		2.5	251.5	
Control Delay (s/veh)	11.8			11.8			10.6	18.1		9.4	36.2	
Level of Service, LOS	B			B			B	C		A	E	
Approach Delay (s/veh) | LOS	11.8	B		11.8	B		16.7	C		35.6	E	
Intersection Delay (s/veh) | LOS	23.8						C					

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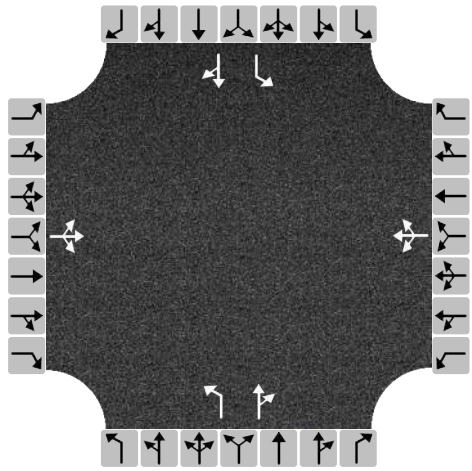
General and Site Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Analysis Time Period (hrs)	0.25
Time Analyzed	2033 TOTAL PM
Project Description	5732.942
Intersection	Ardmore Ave & Vermont St
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Ardmore Avenue
Peak Hour Factor	0.93

Lanes



Turning Movement Demand Volumes

Approach	Eastbound			Westbound			Northbound			Southbound		
Movement	L	T	R	L	T	R	L	T	R	L	T	R
Volume (veh/h)	18	47	83	57	56	34	79	317	29	31	481	19
% Thrus in Shared Lane												

Lane Flow Rate and Adjustments

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	159			158			85	372		33	538	
Percent Heavy Vehicles	3			1			0	3		0	2	
Initial Departure Headway, h_d (s)	3.20			3.20			3.20	3.20		3.20	3.20	
Initial Degree of Utilization, x	0.141			0.141			0.076	0.331		0.030	0.478	
Final Departure Headway, h_d (s)	7.03			7.24			7.17	6.65		6.98	6.48	
Final Degree of Utilization, x	0.311			0.318			0.169	0.688		0.065	0.967	
Move-Up Time, m (s)	2.0			2.0			2.3	2.3		2.3	2.3	
Service Time, t_s (s)	5.03			5.24			4.87	4.35		4.68	4.18	

Capacity, Delay and Level of Service

Approach	Eastbound			Westbound			Northbound			Southbound		
Lane	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Configuration	LTR			LTR			L	TR		L	TR	
Flow Rate, v (veh/h)	159			158			85	372		33	538	
Capacity (veh/h)	512			497			502	541		516	556	
95% Queue Length, Q_{95} (veh)	1.3			1.4			0.6	5.3		0.2	13.1	
95% Queue Length, Q_{95} (ft)	33.3			35.3			15.0	135.7		5.0	332.7	
Control Delay (s/veh)	13.2			13.6			11.3	22.7		10.2	55.4	
Level of Service, LOS	B			B			B	C		B	F	
Approach Delay (s/veh) | LOS	13.2	B		13.6	B		20.6	C		52.8	F	
Intersection Delay (s/veh) | LOS	32.6						D					

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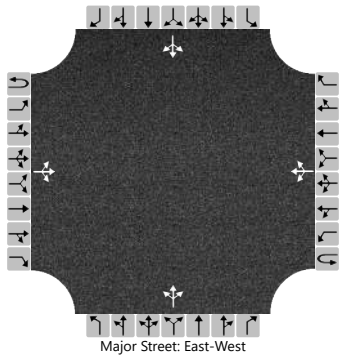
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2025
Time Analyzed	EX AM
Intersection Orientation	East-West
Project Description	5732.942

Site Information

Intersection	Vermont St & Beverly Ave
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Beverly Avenue
Peak Hour Factor	0.74
Analysis Time Period (hrs)	0.25

Lanes


Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		6	57	14		1	74	0		18	2	3		4	4	8
Percent Heavy Vehicles (%)		0				0				0	100	0		25	0	25
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized																
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.10				4.10				7.10	7.50	6.20		7.35	6.50	6.45
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.20				2.20				3.50	4.90	3.30		3.73	4.00	3.53

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		8				1					31				22	
Capacity, c (veh/h)		1497				1510					718				758	
v/c Ratio		0.01				0.00					0.04				0.03	
95% Queue Length, Q_{95} (veh)		0.0				0.0					0.1				0.1	
95% Queue Length, Q_{95} (ft)											2.7				2.9	
Control Delay (s/veh)		7.4	0.0	0.0		7.4	0.0	0.0			10.2				9.9	
Level of Service (LOS)		A	A	A		A	A	A			B				A	
Approach Delay (s/veh)	0.6				0.1				10.2				9.9			
Approach LOS	A				A				B				A			

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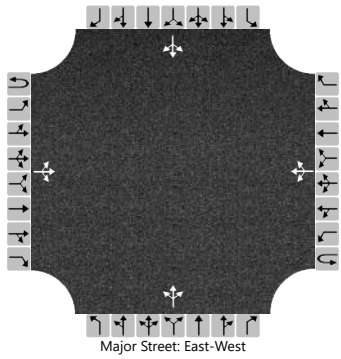
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Time Analyzed	2033 NB AM
Intersection Orientation	East-West
Project Description	5732.942

Site Information

Intersection	Vermont St & Beverly Ave
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Beverly Avenue
Peak Hour Factor	0.74
Analysis Time Period (hrs)	0.25

Lanes


Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		6	62	14		1	80	0		19	2	3		4	4	8
Percent Heavy Vehicles (%)		0				0				0	100	0		25	0	25
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized																
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.10				4.10				7.10	7.50	6.20		7.35	6.50	6.45
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.20				2.20				3.50	4.90	3.30		3.73	4.00	3.53

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		8				1					32				22	
Capacity, c (veh/h)		1487				1502					702				745	
v/c Ratio		0.01				0.00					0.05				0.03	
95% Queue Length, Q_{95} (veh)		0.0				0.0					0.1				0.1	
95% Queue Length, Q_{95} (ft)											2.7				2.9	
Control Delay (s/veh)		7.4	0.0	0.0		7.4	0.0	0.0			10.4				10.0	
Level of Service (LOS)		A	A	A		A	A	A			B				A	
Approach Delay (s/veh)	0.6				0.1				10.4				10.0			
Approach LOS	A				A				B				A			

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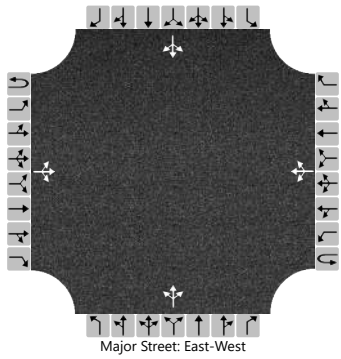
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Time Analyzed	2033 TOTAL AM
Intersection Orientation	East-West
Project Description	5732.942

Site Information

Intersection	Vermont St & Beverly Ave
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Beverly Avenue
Peak Hour Factor	0.74
Analysis Time Period (hrs)	0.25

Lanes


Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		6	62	26		10	80	0		59	2	19		4	4	8
Percent Heavy Vehicles (%)		0				0				0	100	0		25	0	25
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized																
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.10				4.10				7.10	7.50	6.20		7.35	6.50	6.45
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.20				2.20				3.50	4.90	3.30		3.73	4.00	3.53

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		8				14					108				22	
Capacity, c (veh/h)		1487				1482					701				712	
v/c Ratio		0.01				0.01					0.15				0.03	
95% Queue Length, Q_{95} (veh)		0.0				0.0					0.5				0.1	
95% Queue Length, Q_{95} (ft)											12.8				2.9	
Control Delay (s/veh)		7.4	0.0	0.0		7.5	0.1	0.1			11.1				10.2	
Level of Service (LOS)		A	A	A		A	A	A			B				B	
Approach Delay (s/veh)	0.5				0.9				11.1				10.2			
Approach LOS	A				A				B				B			

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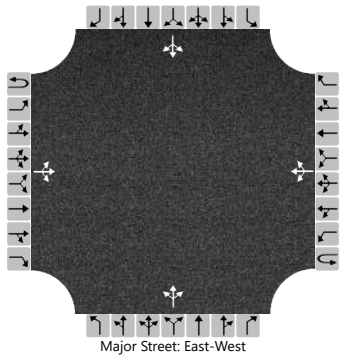
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2025
Time Analyzed	EX PM
Intersection Orientation	East-West
Project Description	5732.942

Site Information

Intersection	Vermont St & Beverly Ave
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Beverly Avenue
Peak Hour Factor	0.81
Analysis Time Period (hrs)	0.25

Lanes


Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		4	64	5		1	83	1		17	1	1		0	1	4
Percent Heavy Vehicles (%)		0				0				0	0	0		0	0	0
Proportion Time Blocked																
Percent Grade (%)									0				0			
Right Turn Channelized																
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.10				4.10				7.10	6.50	6.20		7.10	6.50	6.20
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.20				2.20				3.50	4.00	3.30		3.50	4.00	3.30

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		5				1					23				6	
Capacity, c (veh/h)		1493				1524					747				868	
v/c Ratio		0.00				0.00					0.03				0.01	
95% Queue Length, Q_{95} (veh)		0.0				0.0					0.1				0.0	
95% Queue Length, Q_{95} (ft)											2.5				0.0	
Control Delay (s/veh)		7.4	0.0	0.0		7.4	0.0	0.0			10.0				9.2	
Level of Service (LOS)		A	A	A		A	A	A			A				A	
Approach Delay (s/veh)	0.4				0.1				10.0				9.2			
Approach LOS	A				A				A				A			

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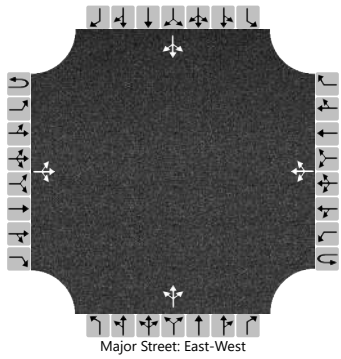
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Time Analyzed	2033 NB PM
Intersection Orientation	East-West
Project Description	5732.942

Site Information

Intersection	Vermont St & Beverly Ave
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Beverly Avenue
Peak Hour Factor	0.81
Analysis Time Period (hrs)	0.25

Lanes


Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		4	69	5		1	88	1		18	1	1		0	1	4
Percent Heavy Vehicles (%)		0				0				0	0	0		0	0	0
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized																
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.10				4.10				7.10	6.50	6.20		7.10	6.50	6.20
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.20				2.20				3.50	4.00	3.30		3.50	4.00	3.30

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		5				1					25				6	
Capacity, c (veh/h)		1485				1516					733				860	
v/c Ratio		0.00				0.00					0.03				0.01	
95% Queue Length, Q_{95} (veh)		0.0				0.0					0.1				0.0	
95% Queue Length, Q_{95} (ft)											2.5				0.0	
Control Delay (s/veh)		7.4	0.0	0.0		7.4	0.0	0.0			10.1				9.2	
Level of Service (LOS)		A	A	A		A	A	A			B				A	
Approach Delay (s/veh)	0.4				0.1				10.1				9.2			
Approach LOS	A				A				B				A			

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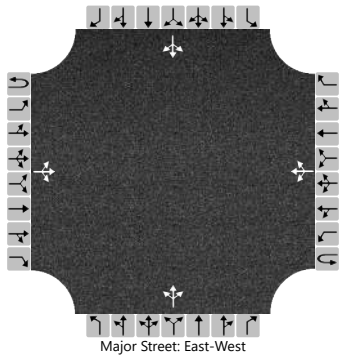
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Time Analyzed	2033 TOTAL PM
Intersection Orientation	East-West
Project Description	5732.942

Site Information

Intersection	Vermont St & Beverly Ave
Jurisdiction	Local
East/West Street	Vermont Street
North/South Street	Beverly Avenue
Peak Hour Factor	0.81
Analysis Time Period (hrs)	0.25

Lanes


Major Street: East-West

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	1	0		0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		4	69	34		23	88	1		55	1	15		0	1	4
Percent Heavy Vehicles (%)		0				0				0	0	0		0	0	0
Proportion Time Blocked																
Percent Grade (%)										0				0		
Right Turn Channelized																
Median Type | Storage			Undivided													

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1				4.1				7.1	6.5	6.2		7.1	6.5	6.2
Critical Headway (sec)		4.10				4.10				7.10	6.50	6.20		7.10	6.50	6.20
Base Follow-Up Headway (sec)		2.2				2.2				3.5	4.0	3.3		3.5	4.0	3.3
Follow-Up Headway (sec)		2.20				2.20				3.50	4.00	3.30		3.50	4.00	3.30

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		5				28					88				6	
Capacity, c (veh/h)		1485				1471					682				830	
v/c Ratio		0.00				0.02					0.13				0.01	
95% Queue Length, Q_{95} (veh)		0.0				0.1					0.4				0.0	
95% Queue Length, Q_{95} (ft)											10.0				0.0	
Control Delay (s/veh)		7.4	0.0	0.0		7.5	0.2	0.2			11.1				9.4	
Level of Service (LOS)		A	A	A		A	A	A			B				A	
Approach Delay (s/veh)	0.3				1.7				11.1				9.4			
Approach LOS	A				A				B				A			

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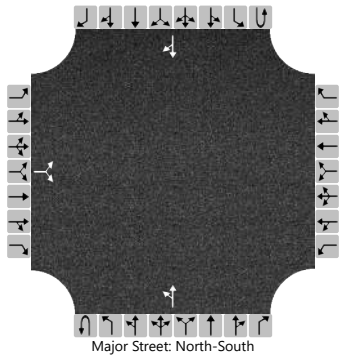
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	5/02/2025
Analysis Year	2033
Time Analyzed	2033 TOTAL AM
Intersection Orientation	North-South
Project Description	5732.942

Site Information

Intersection	Beverly Ave & Garage
Jurisdiction	Local
East/West Street	Garage Entrance
North/South Street	Beverly Avenue
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0
Configuration			LR							LT						TR
Volume (veh/h)		37		0						6	43				24	16
Percent Heavy Vehicles (%)		3		3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized																
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.43		6.23						4.13						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.53		3.33						2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			40							7						
Capacity, c (veh/h)			899							1559						
v/c Ratio			0.04							0.00						
95% Queue Length, Q_{95} (veh)			0.1							0.0						
95% Queue Length, Q_{95} (ft)			2.6							0.0						
Control Delay (s/veh)			9.2							7.3	0.0					
Level of Service (LOS)			A							A	A					
Approach Delay (s/veh)		9.2								0.9						
Approach LOS		A								A						

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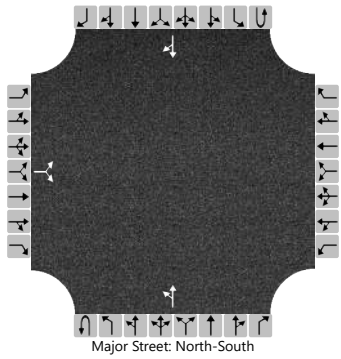
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	6/10/2021
Analysis Year	2033
Time Analyzed	2033 TOTAL PM
Intersection Orientation	North-South
Project Description	5732.942

Site Information

Intersection	Beverly Ave & Garage
Jurisdiction	Local
East/West Street	Garage Entrance
North/South Street	Beverly Avenue
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0
Configuration			LR							LT						TR
Volume (veh/h)		34		0						21	37				24	16
Percent Heavy Vehicles (%)		3		3						3						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized																
Median Type | Storage		Undivided														

Critical and Follow-up Headways

Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.43		6.23						4.13						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.53		3.33						2.23						

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			37							23						
Capacity, c (veh/h)			859							1559						
v/c Ratio			0.04							0.01						
95% Queue Length, Q_{95} (veh)			0.1							0.0						
95% Queue Length, Q_{95} (ft)			2.6							0.0						
Control Delay (s/veh)			9.4							7.3	0.1					
Level of Service (LOS)			A							A	A					
Approach Delay (s/veh)		9.4								2.7						
Approach LOS		A								A						

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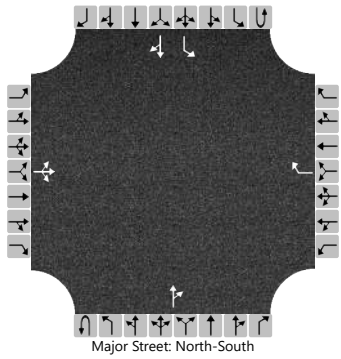
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Time Analyzed	2033 TOTAL AM
Intersection Orientation	North-South
Project Description	5732.942

Site Information

Intersection	Ardmore Ave & Terrace St
Jurisdiction	Local
East/West Street	Terrace Street
North/South Street	Ardmore Avenue
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	1	0	0	1	0	0	1	1	0
Configuration			LTR					R				TR		L		TR
Volume (veh/h)		4	0	17				20			353	57		24	348	8
Percent Heavy Vehicles (%)		3	3	3				3						3		
Proportion Time Blocked																
Percent Grade (%)	0				0											
Right Turn Channelized					No											
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		7.1	6.5	6.2				6.2						4.1		
Critical Headway (sec)		7.13	6.53	6.23				6.23						4.13		
Base Follow-Up Headway (sec)		3.5	4.0	3.3				3.3						2.2		
Follow-Up Headway (sec)		3.53	4.03	3.33				3.33						2.23		

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			23					22						26		
Capacity, c (veh/h)			511					636						1109		
v/c Ratio			0.04					0.03						0.02		
95% Queue Length, Q_{95} (veh)			0.1					0.1						0.1		
95% Queue Length, Q_{95} (ft)			2.6					2.6						2.6		
Control Delay (s/veh)			12.4					10.9						8.3		
Level of Service (LOS)			B					B						A		
Approach Delay (s/veh)	12.4				10.9								0.5			
Approach LOS	B				B								A			

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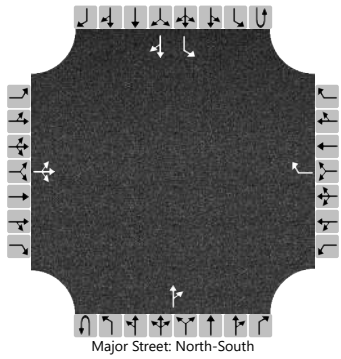
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Time Analyzed	2033 TOTAL PM
Intersection Orientation	North-South
Project Description	5732.942

Site Information

Intersection	Ardmore Ave & Terrace St
Jurisdiction	Local
East/West Street	Terrace Street
North/South Street	Ardmore Avenue
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes


Major Street: North-South

Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	1	0	0	1	0	0	1	1	0
Configuration			LTR					R				TR		L		TR
Volume (veh/h)		1	0	9				17			407	44		35	584	2
Percent Heavy Vehicles (%)		3	3	3				3						3		
Proportion Time Blocked																
Percent Grade (%)	0				0											
Right Turn Channelized					No											
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		7.1	6.5	6.2				6.2						4.1		
Critical Headway (sec)		7.13	6.53	6.23				6.23						4.13		
Base Follow-Up Headway (sec)		3.5	4.0	3.3				3.3						2.2		
Follow-Up Headway (sec)		3.53	4.03	3.33				3.33						2.23		

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			11					18						38		
Capacity, c (veh/h)			394					594						1068		
v/c Ratio			0.03					0.03						0.04		
95% Queue Length, Q_{95} (veh)			0.1					0.1						0.1		
95% Queue Length, Q_{95} (ft)			2.6					2.6						2.6		
Control Delay (s/veh)			14.4					11.3						8.5		
Level of Service (LOS)			B					B						A		
Approach Delay (s/veh)	14.4				11.3								0.5			
Approach LOS	B				B								A			

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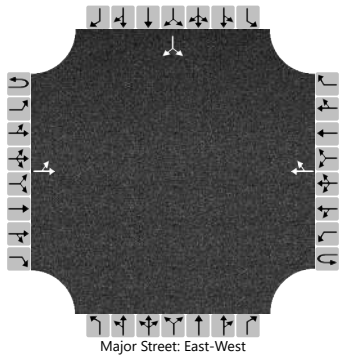
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Time Analyzed	2033 TOTAL AM
Intersection Orientation	East-West
Project Description	5732.942

Site Information

Intersection	Terrace St & Garage Acces
Jurisdiction	Local
East/West Street	Terrace St / Metra Lot
North/South Street	Parking Garage Access
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	1	0
Configuration		LT						TR							LR	
Volume (veh/h)		19	62				10	5						19		19
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)														0		
Right Turn Channelized																
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		21													41	
Capacity, c (veh/h)		1595													950	
v/c Ratio		0.01													0.04	
95% Queue Length, Q_{95} (veh)		0.0													0.1	
95% Queue Length, Q_{95} (ft)		0.0													2.6	
Control Delay (s/veh)		7.3	0.1												9.0	
Level of Service (LOS)		A	A												A	
Approach Delay (s/veh)	1.8												9.0			
Approach LOS	A												A			

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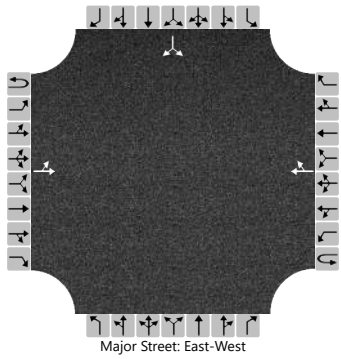
General Information

Analyst	GHA
Agency/Co.	GHA
Date Performed	05/02/2025
Analysis Year	2033
Time Analyzed	2032 TOTAL PM
Intersection Orientation	East-West
Project Description	5732.942

Site Information

Intersection	Terrace St & Garage Acces
Jurisdiction	Local
East/West Street	Terrace St / Metra Lot
North/South Street	Parking Garage Access
Peak Hour Factor	0.92
Analysis Time Period (hrs)	0.25

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
Movement	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12
Number of Lanes	0	0	1	0	0	0	1	0		0	0	0		0	1	0
Configuration		LT						TR							LR	
Volume (veh/h)		43	36				10	5						19		19
Percent Heavy Vehicles (%)		3												3		3
Proportion Time Blocked																
Percent Grade (%)														0		
Right Turn Channelized																
Median Type | Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)		4.1												7.1		6.2
Critical Headway (sec)		4.13												6.43		6.23
Base Follow-Up Headway (sec)		2.2												3.5		3.3
Follow-Up Headway (sec)		2.23												3.53		3.33

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)		47													41	
Capacity, c (veh/h)		1595													925	
v/c Ratio		0.03													0.04	
95% Queue Length, Q_{95} (veh)		0.1													0.1	
95% Queue Length, Q_{95} (ft)		2.6													2.6	
Control Delay (s/veh)		7.3	0.2												9.1	
Level of Service (LOS)		A	A												A	
Approach Delay (s/veh)	4.1												9.1			
Approach LOS	A												A			

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APPENDIX H

ITE Parking Generation Manual Excerpts

GEWALT HAMILTON ASSOCIATES, INC.

Multifamily Housing - 1 BR (Mid-Rise) - Close to Rail Transit
(218)

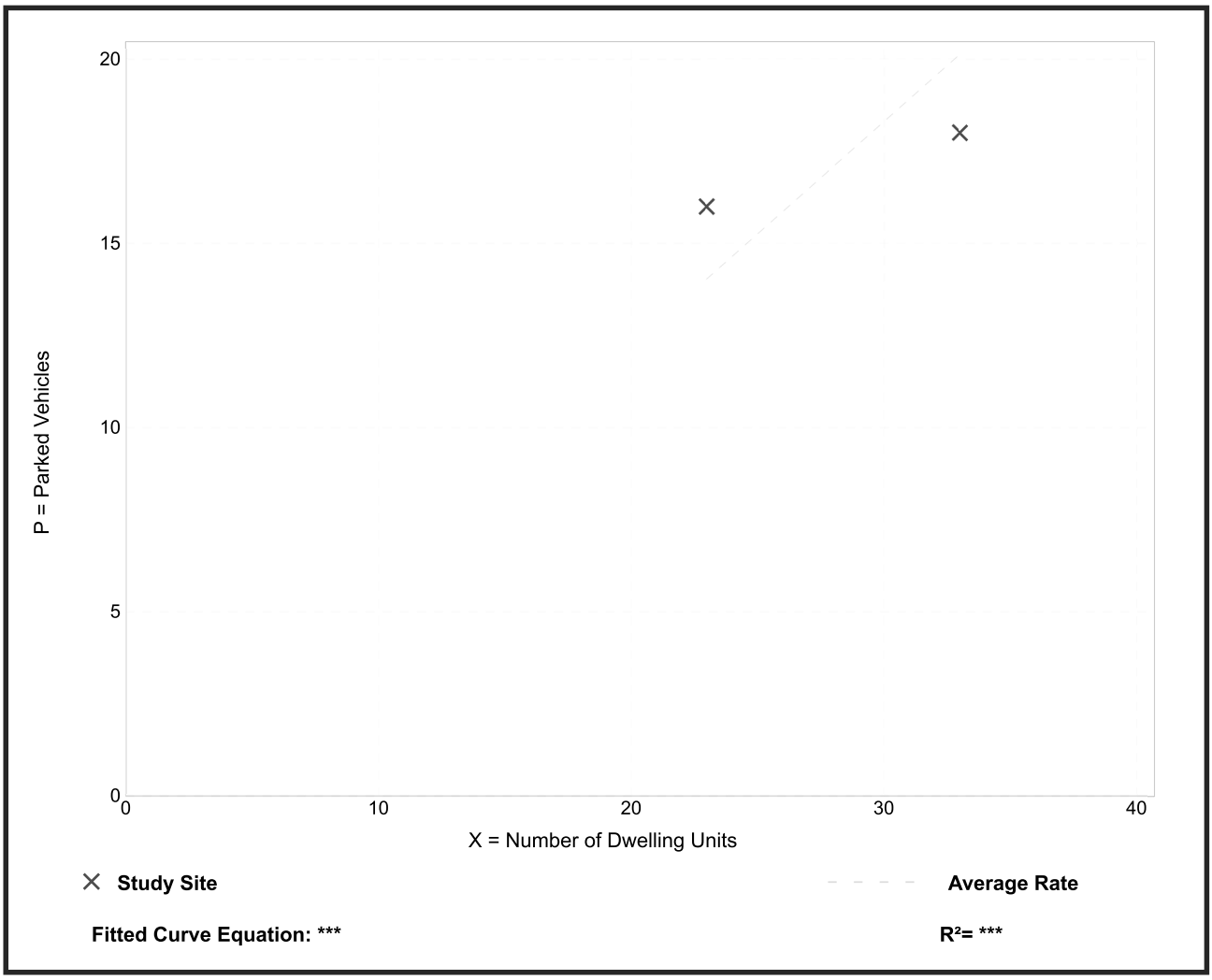
Peak Period Parking Demand vs: **Dwelling Units**
On a: **Weekday (Monday - Friday)**
Setting/Location: **General Urban/Suburban**
Number of Studies: 2
Avg. Num. of Dwelling Units: 28

Peak Period Parking Demand per Dwelling Unit

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
0.61	0.55 - 0.70	*** / ***	***	***

Data Plot and Equation

Caution – Small Sample Size



Parking Generation Manual, 6th Edition ● Institute of Transportation Engineers

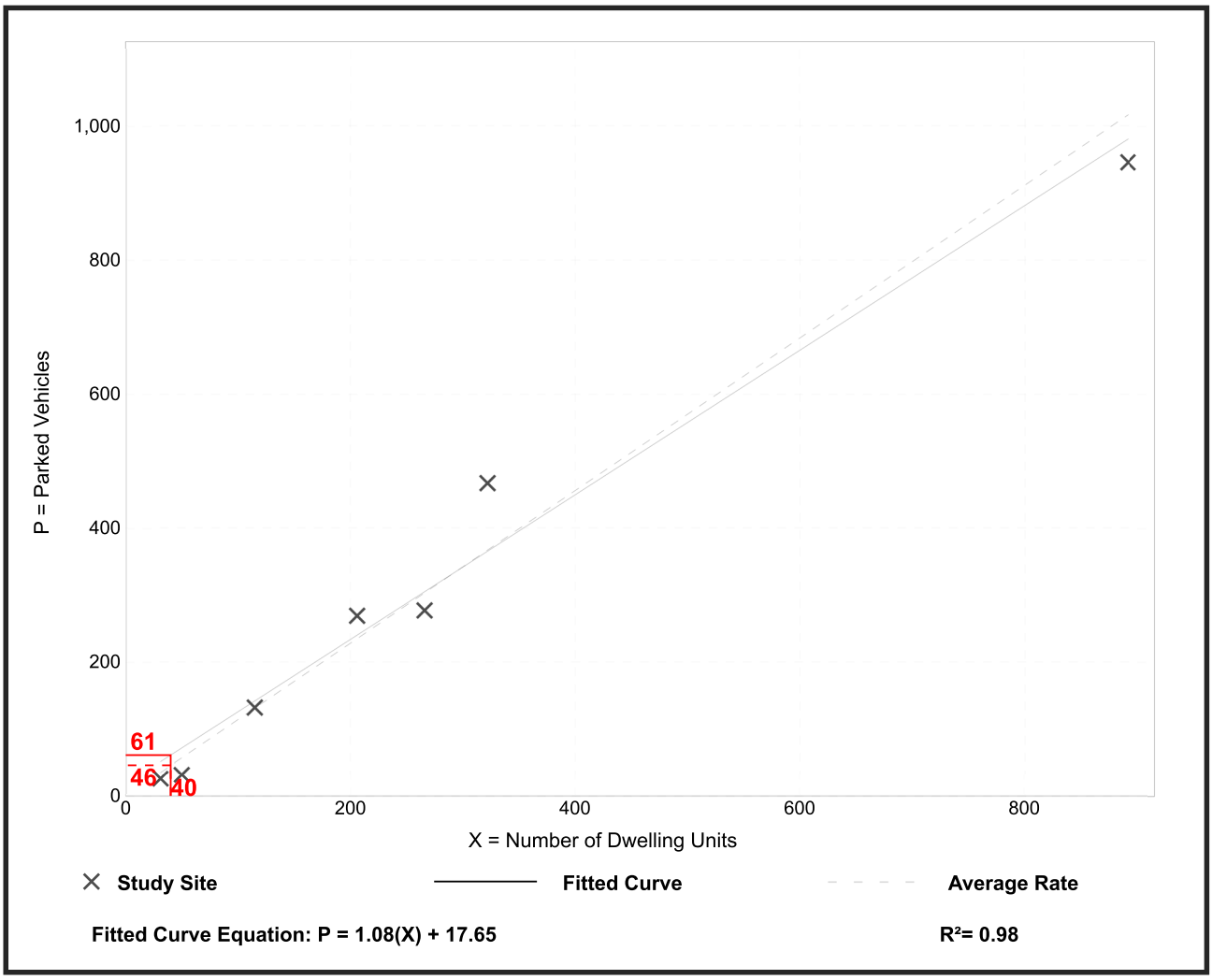
Multifamily Housing - 2+ BR (Mid-Rise) - Close to Rail Transit
(221)

Peak Period Parking Demand vs: **Dwelling Units**
On a: **Weekday (Monday - Friday)**
Setting/Location: **General Urban/Suburban**
Number of Studies: 7
Avg. Num. of Dwelling Units: 269

Peak Period Parking Demand per Dwelling Unit

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
1.14	0.64 - 1.45	0.97 / 1.42	***	0.19 (17%)

Data Plot and Equation



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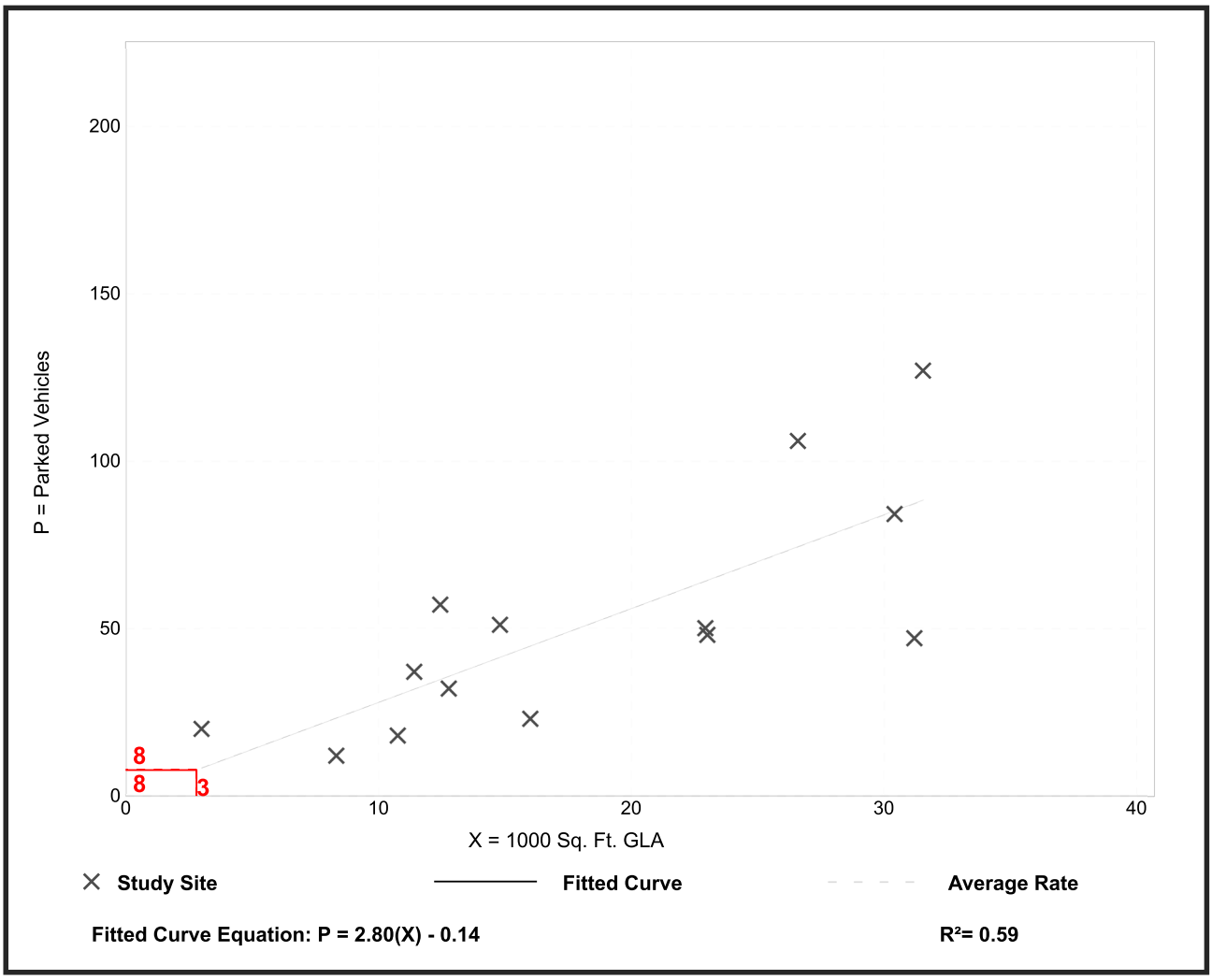
Strip Retail Plaza (< 40k)
(822)

Peak Period Parking Demand vs: **1000 Sq. Ft. GLA**
On a: **Weekday (Monday - Thursday)**
Setting/Location: **General Urban/Suburban**
Number of Studies: 14
Avg. 1000 Sq. Ft. GLA: 18

Peak Period Parking Demand per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
2.79	1.44 - 6.67	2.07 / 4.44	***	1.14 (41%)

Data Plot and Equation



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High-Turnover (Sit Down) Restaurant - Does Not Serve Breakfast
(932)

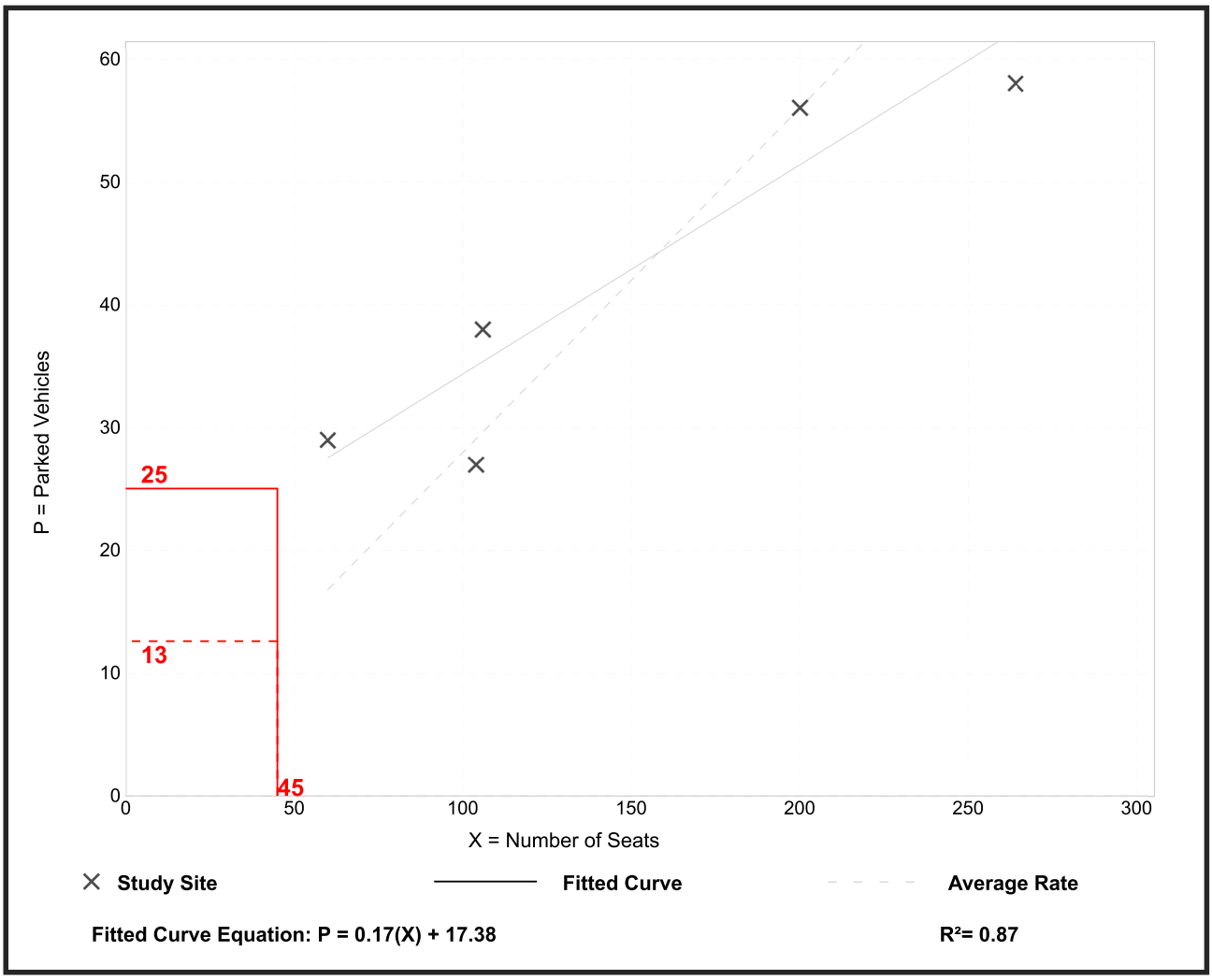
Peak Period Parking Demand vs: **Seats**
On a: **Weekday (Monday - Thursday)**
Setting/Location: **General Urban/Suburban**
Number of Studies: 5
Avg. Num. of Seats: 147

Peak Period Parking Demand per Seat

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
0.28	0.22 - 0.48	0.26 / 0.48	***	0.08 (29%)

Data Plot and Equation

Caution – Small Sample Size



Parking Generation Manual, 6th Edition ● Institute of Transportation Engineers

FINAL STORMWATER MANAGEMENT

REPORT AND PERMIT APPLICATION

FOR

GARDEN STATION APARTMENTS

VILLA PARK, ILLINOIS

REVISED SEPTEMBER 19, 2025
REVISED MAY 15, 2025
REVISED JULY 30, SEPT 10, OCT 8 & NOV 30, 2021
JUNE 4, 2021

904.351

PROFESSIONAL ENGINEER'S CERTIFICATION

STATE OF ILLINOIS }
SS.
COUNTY OF DUPAGE }

I, KEVIN T. SERAFIN, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS TECHNICAL SUBMISSION WAS PREPARED ON BEHALF OF HAWTHORNE WORLD VILLA PARK, LP BY CEMCON LTD. UNDER MY PERSONAL DIRECTION.

DATED THIS 19th DAY OF September AD, 2025

KEVIN T. SERAFIN 062-052118 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062-052118

MY LICENSE EXPIRES ON NOVEMBER 30, 2025

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-002937, EXPIRATION DATE IS APRIL 30, 2027

NOTE: UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE DESIGN PROFESSIONAL ENGINEER, IT IS NOT A VALID TECHNICAL SUBMISSION.

PREPARED FOR:

HAWTHORNE WORLD VILLA PARK, LP
100 TOWER DRIVE
SUITE 238
VILLA PARK, IL 60061

312-235-6647

PREPARED BY:

CEMCON, LTD.
2280 WHITE OAK CIRCLE
SUITE 100
AURORA, IL 60504

630-862-2100

FINAL STORMWATER MANAGEMENT
REPORT AND PERMIT APPLICATION
FOR
GARDEN STATION APARTMENTS
VILLA PARK, ILLINOIS

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FINAL STORMWATER MANAGEMENT

REPORT AND PERMIT APPLICATION

FOR

GARDEN STATION APARTMENTS

VILLA PARK, ILLINOIS

EXHIBITS

TAB 1

- **A. STORMWATER MANAGEMENT PERMIT APPLICATION**
- **B. RELEVANT PERMITS**
- **C. SITE LOCATION MAP**
- **D. USDA NRCS SOILS MAP**
- **E. FEMA FIRM PANEL**
- **F. NATIONAL WETLANDS INVENTORY MAP**

TAB 2

- **G. "EXIST" & PROPOSED IMPERVIOUS AREA EXHIBITS**
- **H. EXISTING STORM SEWER CATCHMENT EXHIBIT**
- **I. EXISTING STORM SEWER CALCULATIONS**
- **J. PROPOSED STORM SEWER CATCHMENT EXHIBIT**
- **K. PROPOSED STORM SEWER CALCULATIONS**
- **L. PROPOSED OVERLAND FLOOD ROUTE EXHIBIT**
- **M. PROPOSED OVERLAND FLOOD ROUTE CALCULATIONS**
- **N. PROPOSED REQUIRED DETENTION**
- **O. PCBMP TREATMENT AREA EXHIBIT**

TAB 3 FLOODPLAIN SUBMITTAL (N/A)

TAB 4 WETLAND SUBMITTAL (N/A)

TAB 5 PLAN SET SUBMITTAL (SEE ATTACHED PLAN)

FINAL STORMWATER MANAGEMENT
REPORT AND PERMIT APPLICATION
FOR
GARDEN STATION APARTMENTS
VILLA PARK, ILLINOIS

1.0 PROJECT DESCRIPTION

The proposed Garden Station Apartments residential multi-use Project consists of two parcels on both sides of Beverly Avenue. Total property area is 3.36 acres with two existing commercial buildings, an apartment building, five duplex single-family buildings and multiple parking lots, including one that serves the Villa Park Metra Station. The larger parcel is located between North Ardmore Avenue, East Vermont Street, North Beverly Avenue, and West Terrace Street. The second parcel is along the east side of North Beverly Avenue immediately north of the Metra parking lot in Villa Park (see Tab 1C). The Project will include the construction of a seven-story building with apartment units, indoor parking decks, multiple commercial units, a restaurant, a new permeable paver parking lot, and associated roadways and utility infrastructure. The third floor will have an open-air courtyard with a pool, deck, and concrete/paver walkways.

We understand from the Village of Villa Park that there is approximately 2.81 acre-feet of stormwater storage provided in the Fulton-Douglas Garden Park detention basin located approximately 700 feet east of North Beverly Avenue and immediately north of the Metra train tracks. 0.85 acre-feet of the 2.81 acre-feet in the basin is dedicated to the existing Metra Station parking lot. Therefore, 1.96 acre-feet of storage is available for regional improvements in the watershed. This Project will utilize a portion of the available storage to satisfy the stormwater storage requirements as dictated in Section 2.E of the Village's amendment to the Countywide Ordinance, requiring runoff storage for the limits of new impervious area (not net new). Under the County Ordinance, the development is exempt from stormwater detention requirements because the site impervious area has not increased more than 25,000 SF. This Project will also utilize Post Construction Best Management Practices (PCBMP's) provided in the Fulton-Douglas Garden Park detention basin. PCBMP's will be required as the development of the site will increase impervious areas. The Fulton-Douglas Garden Park Stormwater Report notes the basin

was planted with native wetland plantings as PCBMP's to provide a water quality benefit to the watershed.

In the current 2025 interim condition, the previously proposed permeable paver parking lot (and associated stormwater conveyance infrastructure) has been installed. Additionally, the proposed demolition of the existing commercial and residential buildings, and existing parking facilities, has been completed. Some impervious demolition remains to be completed around the perimeter of the proposed structure, consisting mostly of existing sidewalk and the southern and eastern roads.

2.0 SPECIAL MANAGEMENT AREAS

Prior to Site Improvement Plan preparation, the site was evaluated for the presence of floodplain, wetlands, and buffers. The evaluation for the site consisted of on-site observation, a National Wetlands Inventory Map investigation, and a detailed review of available Topographic, Wetland and FEMA Maps. Following is a summary of the evaluation for each of the County-defined Special Management Areas:

A. Floodplain Evaluation

According to the FEMA Flood Insurance Rate Map (FIRM), there is no floodplain located within the limits of the site (see Tab 1E).

B. Buffer Assessment

The County Ordinance identifies riparian buffer environments as "vegetative areas along waterways within the limits of the regulatory floodplain". There is no floodplain within the limits of the Project or adjacent to the Project; therefore, there are no riparian buffers within the limits of this Project.

C. Wetland Assessment

According to the National Wetlands Inventory Map, no wetlands or water resources were identified within the Project area. See Tab 1F for the National Wetlands Inventory Map. However, the

existing Fulton-Douglas Garden Park detention basin contains 0.17 acres of wetland identified as PEM1Ch – Palustrine, Emergent, Persistent (1), and Diked or Impounded.

3.0 EXISTING "WITHOUT-PROJECT" CONDITIONS

A. Description

The 3.36-acre Project Site previously contained two commercial buildings housing a liquor store, a restaurant, and a dance studio as well as an apartment building and five duplex single-family residences. There is an existing parking lot that serves the Villa Park Metra Station located at the southeast corner of the property. (See Tab 1C for a full map of the site). The existing impervious area covers approximately 2.14 acres, 93,218 SF and the pervious area covers approximately 1.22 acres, or 53,143 SF.

The larger 2.91-acre parcel is bordered by North Ardmore Avenue to the west, East Vermont Street to the north, North Beverly Avenue to the east, and West Terrace Street to the south. The smaller 0.45-acre parcel is located on the East side of Beverly Avenue and both parcels are in Villa Park. The Villa Park Metra Station is located southeast of the property along the north side of the railway lines serving Olgilvie Transportation Center from Chicago to Elburn.

Runoff from the site drains to all four surrounding streets and into existing storm sewer adjacent to the Project. The southerly 1/4 of the property drains to 10-inch (10") and twelve-inch (12") diameter storm sewer that is tributary to the Fulton-Douglas Garden Park detention basin east of the site by approximately 700 feet. The northern 3/4 of the property drains towards the existing streets in a northerly and easterly direction via large diameter storm sewer on Vermont Street but is not tributary to the Fulton-Douglas basin. The runoff from the two duplex buildings East of Beverly Avenue drains to the east into the back yards of the block bounded by North Chatham, Beverly Avenue, the Metra Parking Lot, and East Vermont Street. This area is also not tributary to the Fulton-Douglas basin. Both drainage areas are ultimately tributary to Salt Creek, which is approximately 3,400 feet to the east of the site.

In the current 2025 interim condition, the previously proposed permeable paver parking lot (and associated stormwater conveyance infrastructure) has been installed. Additionally, the proposed

demolition of the existing commercial and residential buildings, and existing parking facilities, has been completed. The only impervious area on the subject site during this interim condition is the curb and gutter of the permeable paver parking lot, and the driveway aprons. Some impervious demolition remains to be completed around the perimeter of the proposed structure, consisting mostly of existing sidewalk and the southern and eastern roads.

4.0 PROPOSED STORMWATER DETENTION ANALYSIS

The proposed building, parking lot, and appurtenances cover approximately 2.82 acres, or 122,651 SF. However, detention has been provided for the existing Metra parking lot located at the southeast corner of the site. The impervious area of the existing Metra parking lot is 16,960 SF. Also included in the development is a third-floor green roof system with a courtyard surrounding a pool/deck above the parking garage. The third-floor will have 10,638 SF of pervious area comprised of a four-inch (4") soil mixture over granular drainage. The proposed parking lot on the east side of Beverly will be constructed with permeable pavers. Therefore, the total proposed impervious area for which detention will be required is 95,053 SF.

The site development will result in an increase in new impervious area of 18,731 SF (as shown on Tab 2G) because the impervious area increase is less than 25,000 SF. The site is exempt from providing detention under the DCSWMO but will be required to provide PCBMP's under the DCSWMO. Due to this scenario, the development will be required to provide requisite stormwater management under the Village's amendment to the DCSWMO for new impervious area, or 95,053 SF, (2.18 acres as shown on Tab 2G). The total requisite storage volume is 1.141 acre-feet and will be purchased from the Village as part of the Fulton-Douglas Garden Park Detention basin, where additional capacity is available for future re-development. The detention volume remaining in the basin for future use after development of Garden Station will be 0.819 acre-feet.

5.0 PROPOSED "WITH-PROJECT" CONDITIONS

A. Description

The objectives of the proposed Project are the construction of a residential apartment complex and green roof, a permeable paver parking lot and the necessary site improvements – grading, private building access drives, permeable areas of the third-floor courtyard, and installment of utilities.

In the interim 2025 condition, the permeable paver lot has been installed and a large majority of proposed demolition has taken place. Remaining work includes the access drives on Terrace Street and Beverly Avenue, and the construction of the primary structure.

6.0 STORMWATER CONVEYANCE

The stormwater conveyance systems have been designed in accordance with the Village's standards and general engineering practice.

In the existing conditions there is a single flared end section that releases into the existing Fulton-Douglas Garden Park detention basin. There are two main branches of this storm sewer network, that run west to east within the Metra parking lot, as can be seen from the existing topographical map on the Final Proposed Plan Set. The southern branch has sufficient capacity to pass the 10-year peak flow, but it has been found in CEMCON, Ltd.'s analysis that the northern branch does not have sufficient capacity in the existing condition to pass the 10-year peak flow, using the recently updated rainfall intensities for this region.

In the proposed condition, a second outlet is proposed to be constructed that will convey flows from the proposed building to the Fulton-Douglas Garden Park detention basin. The new proposed sewer has been oversized to a twenty-four inch (24") at the downstream end in order to be able to convey excess flows from the northern existing storm sewer branch. The existing northern branch will be interconnected to the new proposed system via a twelve-inch (12") sewer. The storm sewer modelling software, StormCAD, is not capable of modelling diverts explicitly. Instead, two sets of calculations have been provided; one set of calculations assumes that there

isn't an interconnect and shows that the northern branch of the existing storm sewer surcharges during the 10-year return event. Another set of calculations assumed that 2.2 cfs out of the 2.8 cfs peak flow to the point of the interconnect is passed from the existing northern branch to the proposed 24" storm sewer. 2.2 cfs was chosen as the resultant hydraulic gradeline in the existing northern branch is above the crown of a 12" interconnection pipe and so the full capacity of approximately 4 cfs of the 12" sewer is available. This second set of calculations shows that the proposed 24" sewer has sufficient capacity to accept the additional flow as well as that the northern existing branch will not surcharge in the 10-year return event due to the addition of this interconnection. See Tabs 2H-2K for Storm Sewer Calculations and Catchment Delineations.

The 2025 interim condition storm sewer conveyance system also meets all requirements and regulations, as the upsized downstream end of the system has already been installed in preparation to drain the entire proposed structure. The interim c-value (with the existing facilities demolished and without the new building constructed) is lower than the proposed value, and so peak flows and hydraulic grade-lines will similarly be lower than in the ultimate-condition storm sewer calculations provided. The overland flood route will also be capable of passing peak flows in the interim condition, considering the low interim imperviousness.

The overland flood route for the permeable paver lot has been designed to convey the 100-year peak critical flows to the same stormwater management facility. Per comments from the village, flows from the proposed permeable paver lot have been redirected to the southeast through section A-A. This calculation has conservatively modeled only the flow area available through the entrance to the permeable paver lot and does not include overtopping over the curb. In order to ensure any of the flows passing over the top of curb are passed south through the Metra parking lot a berm has been added on the eastern side of the permeable paver lot. See Tabs 2L and 2M for an Overland Flood Route Tributary Map and calculations.

7.0 BEST MANAGEMENT PRACTICES

The Proposed Site incorporates a green roof, a pervious infiltration area, semi-pervious infiltration area, a permeable paver parking lot and provides the requisite PCBMP into the site design to minimize increases in runoff rates, volumes, and pollutant loads. The PCBMP requirements for development of this site have been previously provided as part of the Fulton-Douglas Garden Park Detention Basin Project.

It is not feasible to route approximately 0.17 acres of new impervious area, the sidewalk around the northern portion of the building, to the detention basin. In order to satisfy treatment requirements for this area a fee-in-lieu approach is proposed. See Tab 2O for a depiction of this area.

When combined with the Proposed Erosion and Sedimentation Control Plan, the specified design, construction, and maintenance practices and criteria should minimize the impact of stormwater runoff rates, prevent erosion, and capture pollutants.

8.0 SOIL EROSION AND SEDIMENTATION CONTROL PLAN

As documented in the Final Site Development Plans, soil erosion and sediment control measures will be proposed to protect downstream properties and runoff water quality from adverse effects of soil erosion and sedimentation. The proposed erosion and sediment control features will include:

- Storm sewer inlets protected with sediment trapping/filter control devices during construction.
- Silt fencing installed along the site perimeter at appropriate locations.
- Disturbed areas permanently seeded and protected from soil erosion after final grading is accomplished.
- Stabilized Construction Entrances to prevent tracking soil onto public streets.

9.0 STORMWATER SYSTEMS MAINTENANCE PLAN

The Applicant shall be responsible for the periodic monitoring and maintenance of all stormwater management and stormwater conveyance facilities until such time of final acceptance of the improvements by the Village of Villa Park. Systems include, but are not limited to, (a) storm sewers, storm drains, inlets, manholes, catch basins and appurtenances, (b) overland drainage ways, (c) all landscaping and vegetative cover around and within the property limits, (d) all permanent erosion and sedimentation control devices (e) and a permeable paver parking lot. The Applicant/Village of Villa Park shall undertake appropriate measures to monitor and maintain such facilities in accordance with the policies and procedures established under the Ordinance as amended from time-to-time, and/or the programs and procedures set forth by the owner as part of the routine maintenance program. The programs for monitoring and maintaining the stormwater management and/or water conveyance facilities/systems imposed under this plan shall include the following components and procedures:

A. Storm sewers, storm drains and other drainage appurtenances, including manholes and inlets and the permeable paver parking lot, shall be kept clear of sediment and debris, retained at the elevations, lines and grades intended, and maintained in an operable condition capable of conveying storm water runoff.

B. Overland drainage ways shall be maintained to the line and grade established on the Site Development Plan documents to convey stormwater runoff in a free and unobstructed manner. Landscape planting, earthen fill, or other obstructions that impede the flow of stormwater shall be removed, the area regraded, and a vegetative cover shall be reestablished to deter erosion.

C. A vegetative cover around and over all pervious areas with the development is essential for the prevention of soil erosion and the deposition of sediments within the basin. The periodic replanting and replacement of vegetation shall be required, when necessary, to maintain the vegetative cover.

D. Siltation fences, or ditch checks, as well as those permanent facilities, including catch basins and inlets, shall be periodically cleaned of sediment and debris and/or replaced and restored to operable conditions.

E. A permeable paver parking lot will reduce runoff and filter stormwater before discharging to the proposed storm sewer system. This will improve water quality in the downstream

detention basin. The paver lot will be periodically swept and cleaned of debris in order to maintain the proper functioning of the system.

10.0 SUMMARY

The Final Site Development Plans for Garden Station Apartments and this Final Stormwater Management Permit Application demonstrates that this development will meet or exceed the requirements of the Village of Villa Park and DuPage County's ordinances. Furthermore, Special Management Areas, erosion and sedimentation control issues have been adequately addressed for the Project.

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TAB 1

EXHIBIT 1A

STORMWATER MANAGEMENT

PERMIT APPLICATION

DUPAGE COUNTY STORMWATER MANAGEMENT CERTIFICATION APPLICATION (1/2)

1. Community and Status	2. Date of Application	3. Stormwater Application No.	4. Community Tracking No.
Villa Park ☐ Non ☐ Partial ☐ Complete			

5. Applicant:

Name: Dr. Ganesan Visvabharathy
Company Name: Hawthorne World Villa Park, LP
Address: 100 Tower Drive, Suite 238
City, ST, Zip: Burr Ridge, IL 60527
Phone: 312-235-6647
Email: visva@hawthorneworld.com

6. Owner:

Name: Dr. Ganesan Visvabharathy
Company Name: Hawthorne World Villa Park, LP
Address: 100 Tower Drive, Suite 238
City, ST, Zip: Burr Ridge, IL 60527
Phone: 312-235-6647
Email: visva@hawthorneworld.com

7. Description of Proposed Development: Construction of multi-level 200 unit apartment complex with office space and restaurant on approximately 3 acres bounded by Ardmore St., Vermont St., Beverly Avenue
Includes sanitary sewer, curb, pavement, lighting, and landscaping.
Project name: GARDEN STATION APARTMENT

8. Location of Development:
(if not address use nearest major intersection)

Address: Northeast corner of Terrace St. an
N. Ardmore Avenue
Municipality: Villa Park
Watershed Planning Area & Trib: Salt Creek Sub-Basin

9. Legal Description (attach additional sheets if needed)

NW (¼ Section) 39N (Township) 11E (Range)

PIN 06 - 03 - 122 - 001
PIN 06 - 03 - 122 - 009

10. Check all of the conditions which apply:

☐ Flood Plain ☑ Stormwater Detention ☑ Best Management Practices ☑ Soil Erosion & Sediment Control
☐ Wetland ☐ Wetland Buffer ☐ Riparian Buffer

11. Acknowledgement of On-Site Infiltration PCBMPs

I acknowledge that I have used my best effort to identify zones for which on-site infiltration are prohibited for Post Construction Best Management Practices (PCBMPs) in accordance with the Ordinance (15-63.B)

Signature of Applicant — Dr. Ganesan Visvabharathy, President (Print Name) — 9/22/25 (Date)

12. Freedom of Information Act (FOIA)

I acknowledge that all architects' drawings, engineers' technical submissions and other construction-related technical documents containing stormwater management information submitted with this application may be made available for inspection or copying by the County, notwithstanding 5 ILCS 140/7(1)(k), upon the written request for such materials. Such productions will be restricted to the following parties: i) the Applicant ii) any subsequent owner of the subject property; or iii) any governmental unit having planning or drainage jurisdiction within 1 and ½ mile of the subject property.

Signature of Applicant — Dr. Ganesan Visvabharathy, President (Print Name) — 9/22/25 (Date)
Signature of Owner — Dr. Ganesan Visvabharathy, President (Print Name) — 9/22/25 (Date)

13. Statement of Opinion for Minimum Criteria for Stormwater Management

I am a Professional Engineer under the employment of the Applicant. It is my professional opinion that the development meets the minimum criteria for stormwater management in accordance with the Ordinance (15-36)

Signature of Professional Engineer — Kevin Serafin, P.E., President (Print Name) — (Date)

_____ Community Copy _____ DuPage County SM Copy _____ Applicant Copy

Rev 10/19

DUPAGE COUNTY STORMWATER MANAGEMENT CERTIFICATION APPLICATION (2/2)

Stormwater Application No:	Community Tracking No:

14. Statement of Opinion for Presence of Flood Plain, Wetlands, and Buffers (15-47-A.5)

☐ I acknowledge the presence of flood plain. ☑ I deny the presence of flood plain.	☐ I acknowledge the presence of wetlands. ☑ I deny the presence of wetlands.	☐ I acknowledge the presence of buffers. ☑ I deny the presence of buffers.
Signature of Qualified Professional _____ Date Kevin Serafin, P.E., President Printed Name	Signature of Qualified Professional _____ Date Printed Name	Signature of Qualified Professional _____ Date Printed Name

15. Soil Erosion & Sediment Control Submittal Requirements (15-50.B)
(For developments with less than 1 acre of land disturbance that are not part of a larger common plan)

I certify that the development meets the soil erosion and sediment control design criteria found in Article VII have been met.

Signature of Qualified Designer | Kevin Serafin, P.E., President (Print Name) | 9/23/25 (Date)

16. Soil Erosion & Sediment Control Requirements (15-59.W) **(For developments with land disturbing activities greater than 1 acre)**

I acknowledge that the site complies with the IEPA NPDES ILR10 Permit.

Signature of Applicant | Dr. Ganesan Visvabharathy, President (Print Name) | 9/22/25 (Date)

17. Acknowledgement of Required As-Built Plans (15-47.B)

I acknowledge that a record drawing signed by either a Professional Engineer or a Professional Land Surveyor depicting the as-constructed size, rim, and invert elevations of pipes, stormwater structures and culverts, and contours and flood storage volumes of all required basins of the major stormwater systems and minor stormwater systems shall be submitted for review and approval upon completion of the stormwater facilities.

Signature of Owner | Dr. Ganesan Visvabharathy, President (Print Name) | 9/22/25 (Date)

18. Intentional Misrepresentation Under Penalty of Perjury

I declare that I have examined and/or made this application and rider, and it is true and correct to the best of my knowledge and belief. I realize that the information that I have affirmed hereon forms a basis for the issuance of the stormwater management certification(s) herein applied for and approval of plans in connection therewith shall not be construed to permit any construction upon said premises or use thereof in violation of any provision of any applicable ordinance or to excuse the owner or his successors in title from complying therewith. The Owner and Applicant each understand and agree to construct said improvement in compliance with all provisions of the applicable ordinances.

Signature of Applicant | Dr. Ganesan Visvabharathy, President (Print Name) | 9/22/25 (Date)

Signature of Owner | Dr. Ganesan Visvabharathy, President (Print Name) | 9/22/25 (Date)

DO NOT WRITE BELOW THIS LINE

19. Security (15-54)

Stormwater Facilities	$ _____
Wetlands/Natural Area	$ _____
SE/SC	$ _____
Total	$ _____

20. Stormwater Fees

Community Review	$ _____	
DCSM Review	$ _____	
Fee-in-Lieu	$ _____ (Wetland)	$ _____ (BMP)

Seal/Stamp
Certifications expire December 31st of the third year of Certification or Authorization, whichever is earlier.

21. Final Approvals (See Certification letter for special conditions and general conditions.)

Community Certification _____ (Date) _____ (Approved by/title)

County Authorization _____ (Date) _____ (Approved by/title)

_____ Community Copy _____ DuPage County SM Copy _____ Applicant Copy

EXHIBIT 1B

RELEVANT PERMITS

EcoCAT
Ecological Compliance Assessment Tool

ILLINOIS DEPARTMENT OF NATURAL RESOURCES

Applicant: Dr. Ganesan Visvabharathy
Contact: Jonathon Helck
Address: 100 Tower Drive
Suite 238
Burr Ridge, IL 60527

Project: Garden Station
Address: 416 Beverly Avenue, Villa Park

IDNR Project Number: 2605659
Date: 09/18/2025
Alternate Number: 904.351, 2113554

Description: Continuation of construction under previous IDNR project number 2113554. Includes a multi-story apartment building with underground parking and commercial property on the ground floor. Includes utility work and roadway modifications.

Natural Resource Review Results

Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

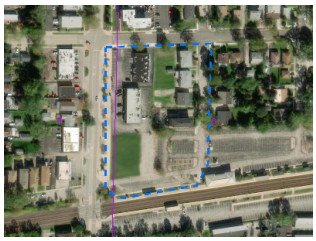
Consultation is terminated. This consultation is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Termination does not imply IDNR's authorization or endorsement.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: DuPage

Township, Range, Section:
39N, 11E, 3
39N, 11E, 4



IL Department of Natural Resources Contact
Isabella Newingham
217-785-5500
Division of Ecosystems & Environment

Government Jurisdiction
IL Environmental Protection Agency
Alan Keller
1021 N Grand Avenue
Springfield, Illinois 62794

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.

3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397

JB PRITZKER, GOVERNOR JOHN J. KIM, DIRECTOR

Project/Site: Garden Station, Villa Park, IL, DuPage County
NPDES Permit No: ILR10ZB28

10/22/2021

We have reviewed your application requesting coverage for Garden Station located at 405 N. Ardmore Ave, , Villa Park, IL 60181, and determined that storm water discharges associated with industrial activity from construction sites are appropriately covered by the General NPDES Permit issued by the Agency. Your discharge is covered by this permit effective as of the date of this letter.A copy of the NOI submission can be downloaded at this link: https://npdes-ereporting.epa.gov/net-cgp/api/public/v1/form/1404954/attachment/zip.

The Permit includes special conditions regarding the application, Storm Water Pollution Prevention Plan and reporting requirements. Failure to meet any portion of the Permit could result in civil and/or criminal penalties. The Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

As a Permit Holder, it is your responsibility to:

1. Submit a modified Notice of Intent of any substantial modification to the project such as address changes, new contractors, area coverage, or additional discharges to Waters of the United States within 30 days.
2. Submit a Notice of Termination once the site has completed final stabilization and all storm water discharges from construction activities that are authorized by this Permit are eliminated.

Please reference your permit number ILR10ZB28 in all future correspondence. Should you have any questions concerning the Permit, please contact the Permit Section at (217) 782-0610.

Sincerely,

Darin E. LeCrone
Manager, Permit Section
Division of Water Pollution Control

Link to: General NPDES Permit No. ILR10

cc:

2125 S. First Street, Champaign, IL 61820 (217) 278-5800
2009 Mall Street Collinsville, IL 62234 (618) 346-5120
9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000
595 S. State Street, Elgin, IL 60123 (847) 608-3131
2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200
412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022
4302 N. Main Street, Rockford, IL 61103 (815) 987-7760

PLEASE PRINT ON RECYCLED PAPER

ILLINOIS
DEPARTMENT OF NATURAL RESOURCES

Illinois Department of **Natural Resources**

One Natural Resources Way Springfield, Illinois 62702-1271
www.dnr.illinois.gov
Mailing Address: 1 Old State Capitol Plaza, Springfield, IL 62701

JB Pritzker, Governor
Colleen Callahan, Director

DuPage County
Villa Park
Demolition and New Construction, Garden Station Mixed-Use Building
401-405 N. Ardmore Ave., 400 N. Beverly Ave., 403-405 N. Beverly Ave., 406-408 N. Beverly Ave., 409-411 N. Beverly Ave., 410-412 N. Beverly Ave., 414-416 N. Beverly Ave., 415 N. Ardmore Ave., Villa Park,
CEMCON-904.351
SHPO Log #008062221

July 27, 2021

Chris Lindley
CEMCON, Ltd
2280 White Oak Circle, Suite 100
Aurora, IL 60502-9675

Dear Mr. Lindley:

This letter is to inform you that we have reviewed the information provided concerning the referenced project.

Our review of the records indicates that no historic, architectural or archaeological sites exist within the project area.

Please retain this letter in your files as evidence of compliance with Section 4 of the Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420/1 et. seq.). This clearance remains in effect for two years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

If you have any further questions, please call 217/782-4836.

Sincerely,

Robert F. Appleman
Deputy State Historic
Preservation Officer

EXHIBIT 1C

SITE LOCATION MAP

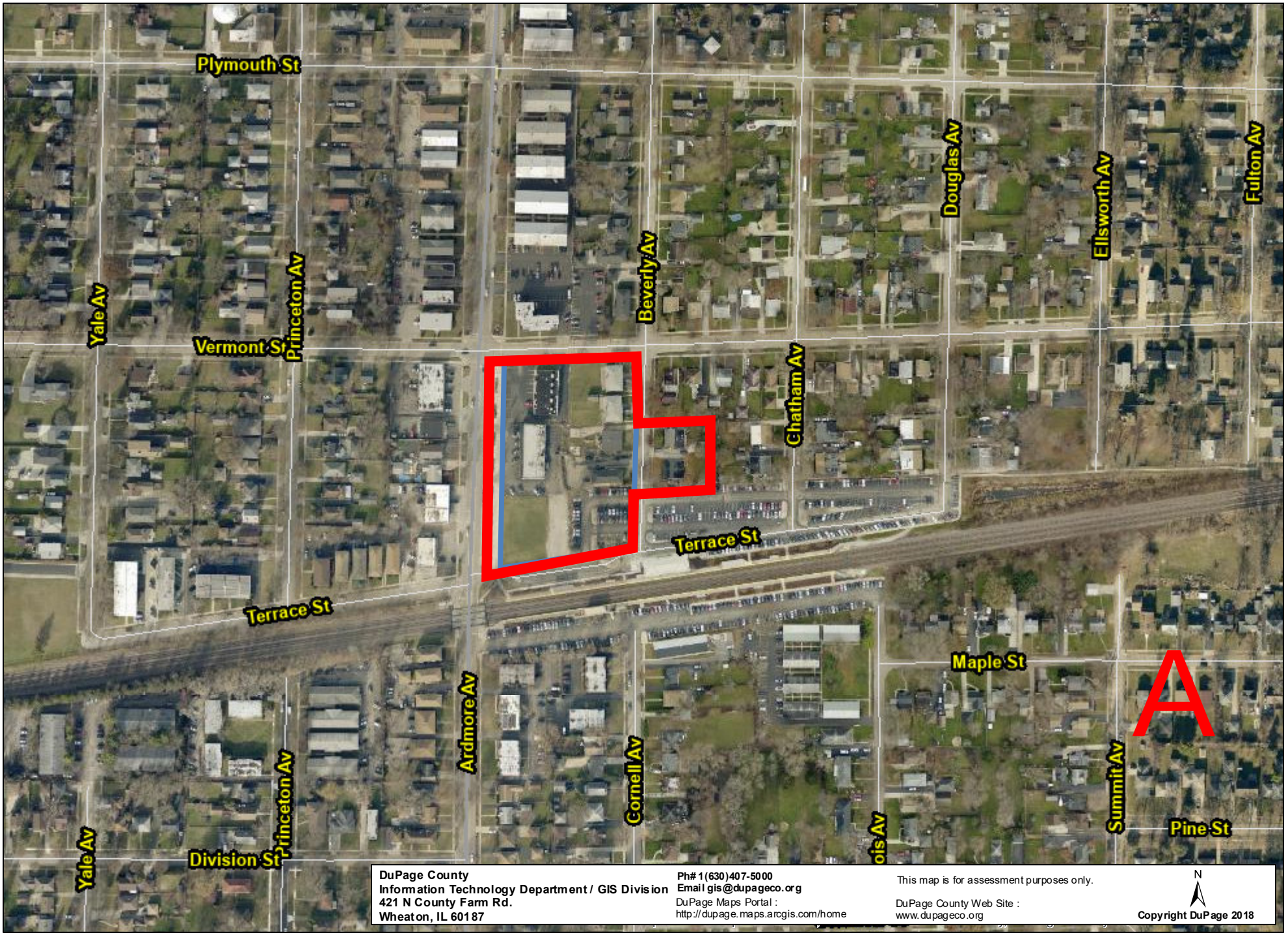

Plymouth St
Yale Av
Princeton Av
Vermont St
Beverly Av
Douglas Av
Ellsworth Av
Fulton Av
Chatham Av
Terrace St
Terrace St
Maple St
A
Ardmore Av
Cornell Av
Summit Av
Pine St
Yale Av
Princeton Av
Division St
DuPage County
Information Technology Department / GIS Division
421 N County Farm Rd.
Wheaton, IL 60187
Ph# 1(630)407-5000
Email gis@dupageco.org
DuPage Maps Portal :
http://dupage.maps.arcgis.com/home
This map is for assessment purposes only.
DuPage County Web Site :
www.dupageco.org
N
Copyright DuPage 2018

EXHIBIT 1D

USDA NRCS SOILS MAP

Map Scale: 1:1,280 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: DuPage County, Illinois
Survey Area Data: Version 16, May 29, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 15, 2020—Sep 19, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
805B	Orthents, clayey, undulating	2.6	60.0%
854B	Markham-Ashkum-Beecher complex, 1 to 6 percent slopes	1.7	40.0%
Totals for Area of Interest		**4.3**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

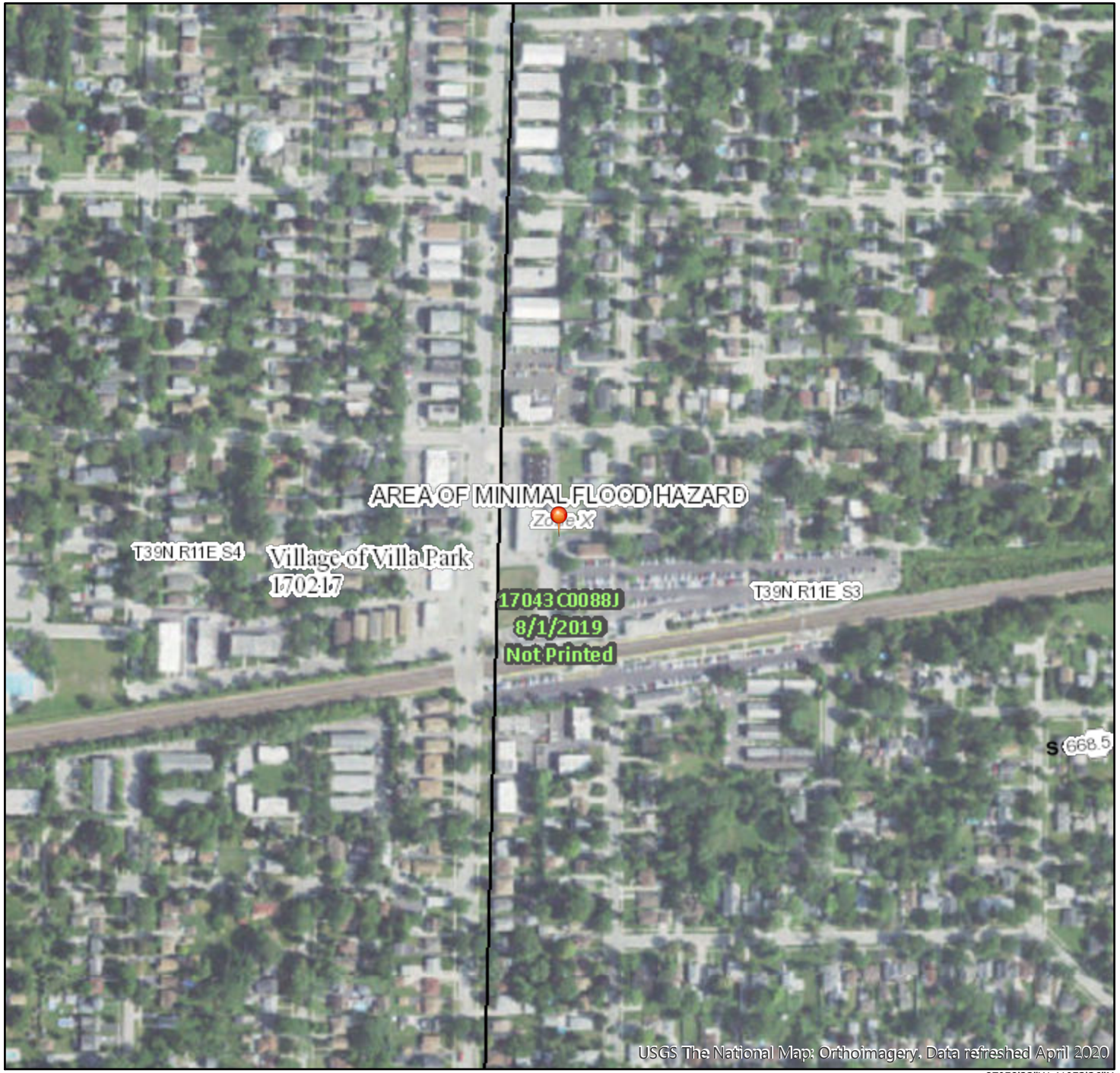
EXHIBIT 1E

FEMA FIRM PANEL

National Flood Hazard Layer FIRMette

FEMA

87°59'W 41°54'3"N



87°58'23"W 41°53'36"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 — Cross Sections with 1% Annual Chance
- 17.5 — Water Surface Elevation
- Coastal Transect
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/15/2020 at 12:58 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

EXHIBIT 1F

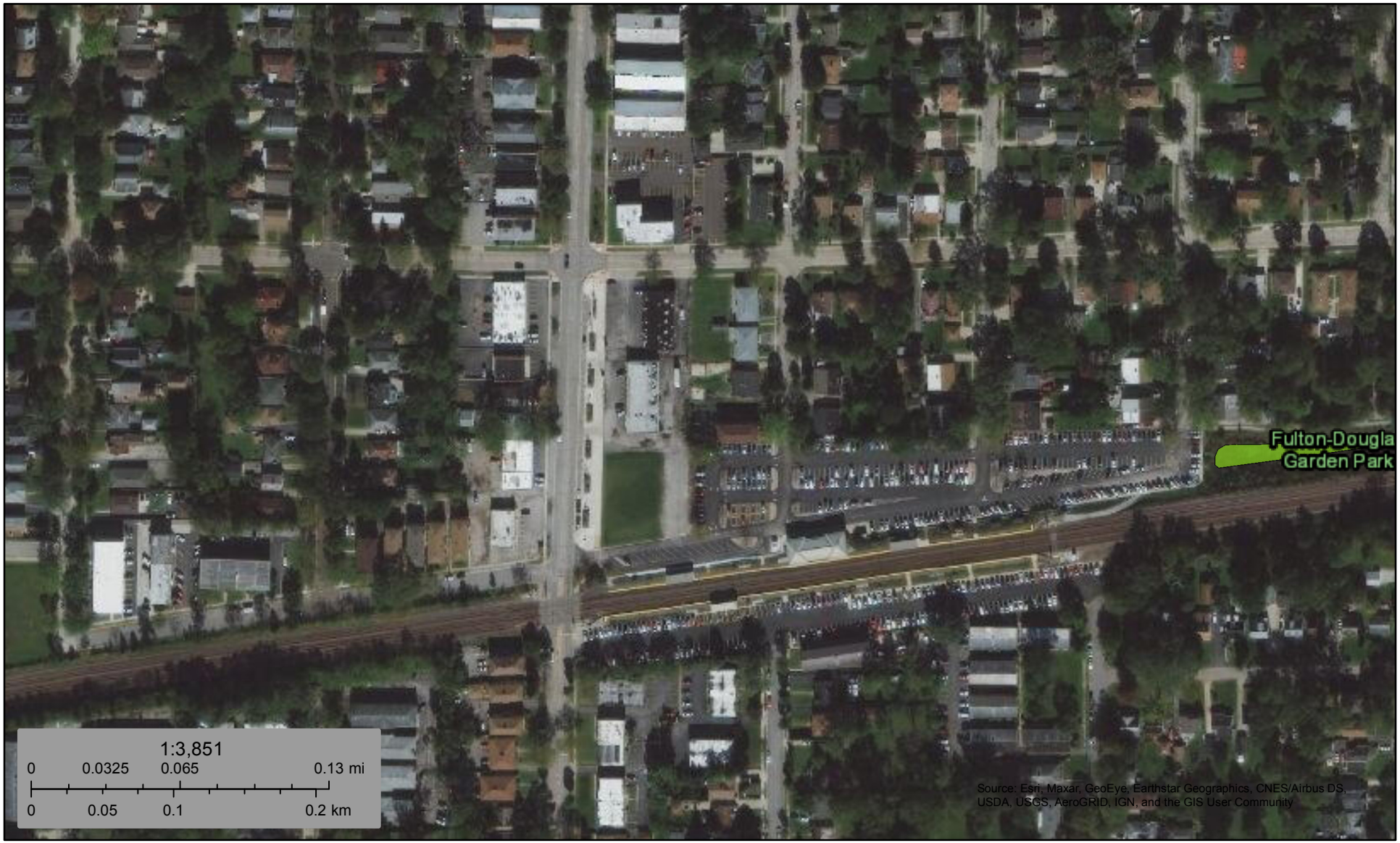
NATIONAL WETLANDS

INVENTORY MAP

U.S. Fish and Wildlife Service

National Wetlands Inventory

Garden Station Apartments



July 15, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

TAB 2

EXHIBIT 2G

“EXIST” & PROPOSED

IMPERVIOUS AREA EXHIBITS

EXISTING IMPERVIOUS AREA EXHIBIT
FOR
GARDEN STATION APARTMENTS

LOCATION MAP

EXIST. IMPERVIOUS AREA = 2.14 Ac.

EXISTING PERVIOUS AREA = 1.22 Ac.

N

30 15 0 30
SCALE: 1 INCH = 30 FEET

VERMONT STREET

N 87°42'40" E 289.88'

ARDMORE AVENUE

BEVERLY AVENUE

TERRACE STREET

UNION PACIFIC RAILROAD

N 01°13'10" E 453.95'

S 01°13'10" W 420.98'

S 81°16'44" W 293.75'

GEORGE MACOUBRIE'S VILLA PARK PER DOC. R2335

TOWNLEY'S VILLA PARK HIGHLANDS PER DOC. R2338

1–Story Brick Building

Split Level Brick & Frame Multi–Family Residence

Split Level Brick Multi–Family Residence

Asphalt Drive

Asphalt Surface

Asphalt Parking Lot w/B6–12 Curb & Gutter

Asphalt Driveway

Asphalt Surface w/B6–12 Curb & Gutter

Shed

1 Story Brick/Frame Multi–Family T/F=688.25

Frame Addition

Frame Garage F/F= 687.4

1 Story Brick/Frame Multi–Family T/F=688.95

Elec., Cable, Telephone Boxes

Cable/Telephone Boxes

Elec./Cable Boxes

Shared Driveway

145.00' (R&M)

145.00' (R)

145.10' (M)

70.00' (R&M)

66.70' (R&M)

66.60' (R&M)

LEGEND

EXISTING	PROPOSED	DESCRIPTION
◎	◉	MANHOLE
○	●	CATCH BASIN
□	■	INLET
	⬢	CLEANOUT
	▥	SLOPE INLET BOX
⊢	⊢	HEADWALL
◁	◀	END SECTION
C	C	STORM SEWER
C	C	SANITARY SEWER
W	W	WATERMAIN
⊗	◔	VALVE & BOX
◎	◉	WATER VALVE IN VAULT
☼	☼	FIRE HYDRANT
		CONTOURS
(ELEV)	ELEV	ELEVATIONS
☼	✦	STREET LIGHT

Site Area = 3.36 Ac.

Existing Impervious = 2.14 Ac.

Existing Pervious = 1.22 Ac.

PREPARED FOR:
HAWTHORNE DEVELOPMENT CORPORATION
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235–6647

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60502–9675
PH: 630.862.2100 FAX: 630.862.2199
E–Mail: cadd@cemcon.com Website: www.cemcon.com

DISC NO.: 904351 FILE NAME: EXIST IMPERV EXHIBIT
DRAWN BY: DJF/DDD FLD. BK. / PG. NO.: BK./PG.
COMPLETION DATE: 8–30–21 JOB NO.: 904.351
XREF : TOPO & SITEPLAN PROJECT MANAGER : JCL

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PLOT FILE CREATED: 8/30/2021 BY: DAVID DEMAY DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\EXHIBITS\EXIST IMPERV EXHIBIT.DWG

PROPOSED IMPERVIOUS AREA EXHIBIT
FOR
GARDEN STATION APARTMENTS

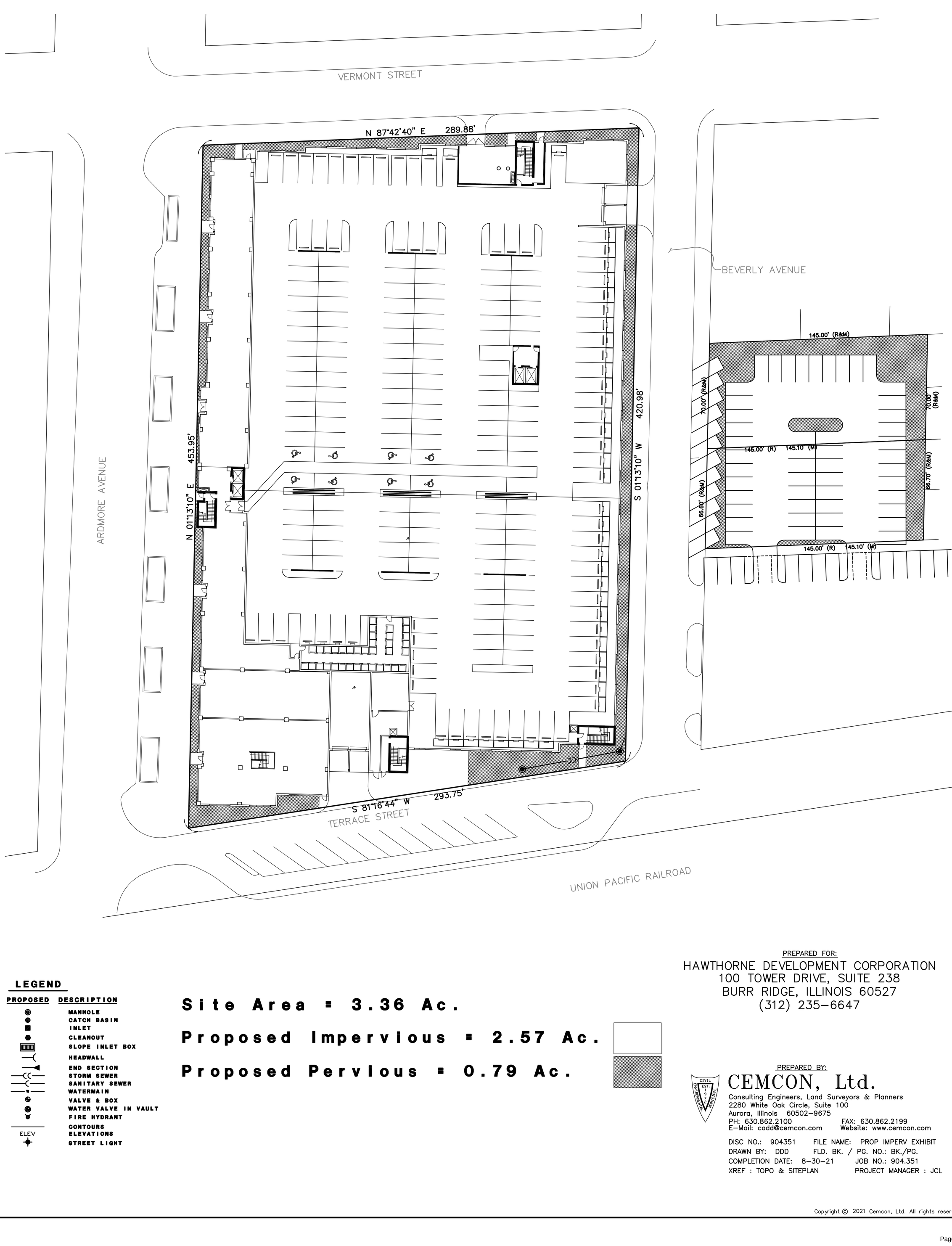
LOCATION MAP

PROPOSED IMPERVIOUS AREA = 2.57 Ac.

PROPOSED PERVIOUS AREA = 0.79 Ac.

N

30 15 0 30
SCALE: 1 INCH = 30 FEET



LEGEND

EXISTING	PROPOSED	DESCRIPTION
◎	◉	MANHOLE
○	●	CATCH BASIN
□	■	INLET
	⬢	CLEANOUT
	▥	SLOPE INLET BOX
⊢	⊢	HEADWALL
◁	◀	END SECTION
C	C	STORM SEWER
S	S	SANITARY SEWER
W	W	WATERMAIN
⊗	✣	VALVE & BOX
⊗	✣	WATER VALVE IN VAULT
♉	♉	FIRE HYDRANT
		CONTOURS
(ELEV)	ELEV	ELEVATIONS
☼	✦	STREET LIGHT

Site Area = 3.36 Ac.

Proposed Impervious = 2.57 Ac.

Proposed Pervious = 0.79 Ac.

PREPARED FOR:
HAWTHORNE DEVELOPMENT CORPORATION
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235-6647

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60502-9675
PH: 630.862.2100 FAX: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

DISC NO.: 904351 FILE NAME: PROP IMPERV EXHIBIT
DRAWN BY: DDD FLD. BK. / PG. NO.: BK./PG.
COMPLETION DATE: 8-30-21 JOB NO.: 904.351
XREF : TOPO & SITEPLAN PROJECT MANAGER : JCL

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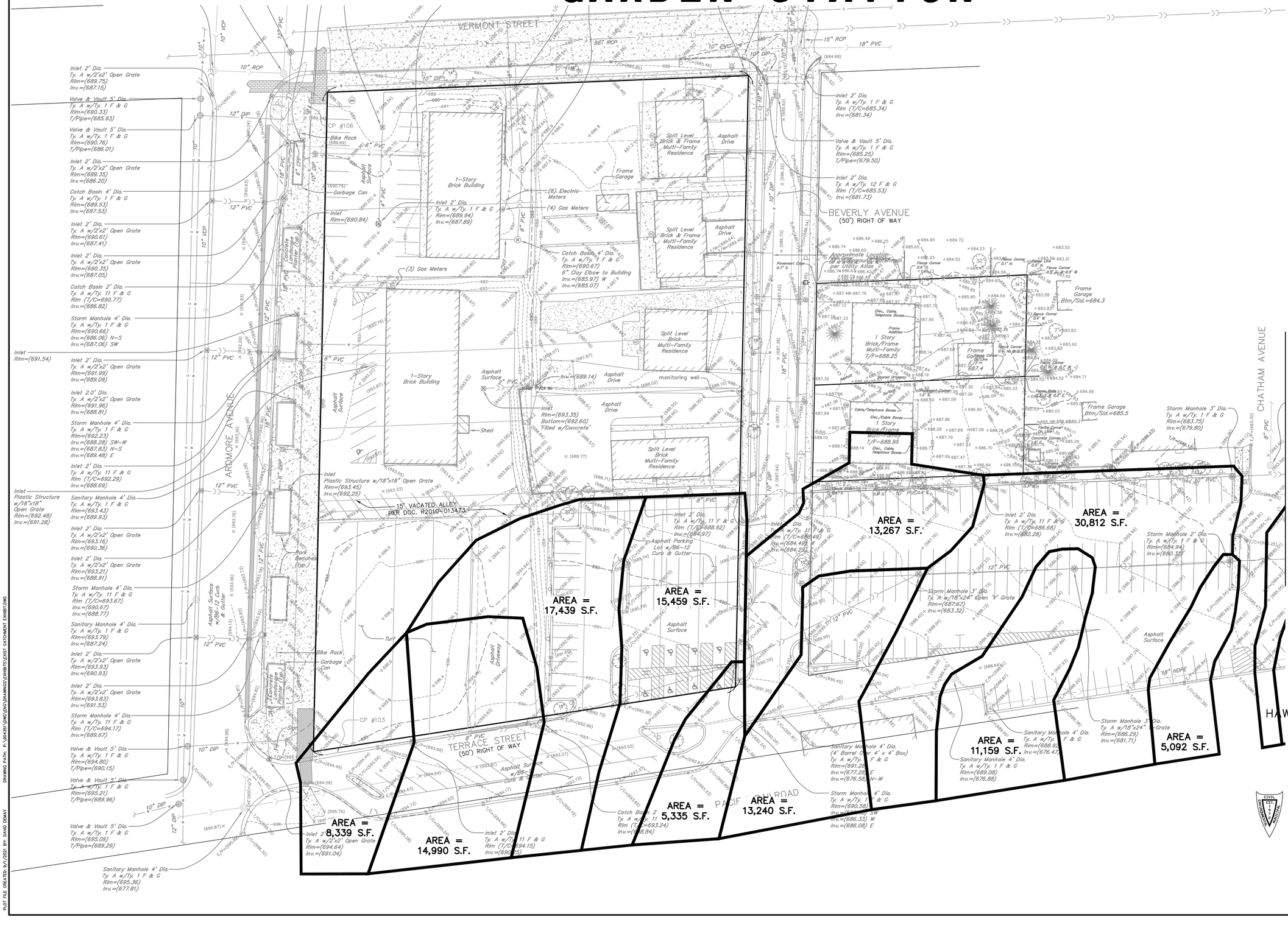
EXHIBIT 2H

EXISTING STORM SEWER

CATCHMENT EXHIBIT

EXISTING CATCHMENT EXHIBIT
FOR
GARDEN STATION



MATCHLINE - SEE SHEET 2 OF 2 FOR CONTINUATION

N

30 15 0 30

SCALE: 1 INCH = 30 FEET

LINE/SYMBOL/ABBREVIATION LEGEND

- BOUNDARY LIMITS
- ADJACENT PROPERTY OR R.O.W. LINE
- UNDERLYING PARCEL LINES
- OHW — OVERHEAD WIRES
- G — UNDERGROUND GAS LINE
- UNDERGROUND STORM LINE
- UNDERGROUND SANITARY LINE
- W — UNDERGROUND WATER LINE
- X — FENCE
- AIR CONDITIONER
- BOLLARD
- CABLE TV PEDESTAL
- STORM MANHOLE
- CATCH BASIN
- INLET
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- VALVE VAULT
- GAS METER
- GAS VALVE
- GAS MARKER POST
- HAND HOLE
- ELECTRIC JUNCTION BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC PEDESTAL
- ELECTRIC TRANSFORMER
- LIGHT STANDARD
- SIGN
- TELEPHONE JUNCTION BOX
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- UTILITY POLE
- GUY WIRE
- BRICK SURFACE
- CONCRETE SURFACE
- R.O.W. RIGHT OF WAY
- B-B BACK-TO-BACK
- E-E EDGE-TO-EDGE
- 12" DECIDUOUS TREE w/TRUNK DIAM.

PREPARED FOR:

HAWTHORNE DEVELOPMENT CORPORATION
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235-6647

PREPARED BY:

CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
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PH: 630.862.2100 FAX: 630.862.2199
E-Mail: info@cemcon.com Website: www.cemcon.com

DISC NO.: 904351 FILE NAME: EXIST CATCHMENT EXHIBIT
DRAWN BY: DDD FLD. BK. / PG. NO.: BK./PG.
COMPLETION DATE: 2021-08-31 JOB NO.: 904.351
XREF : TOPO PROJECT MANAGER : JCL

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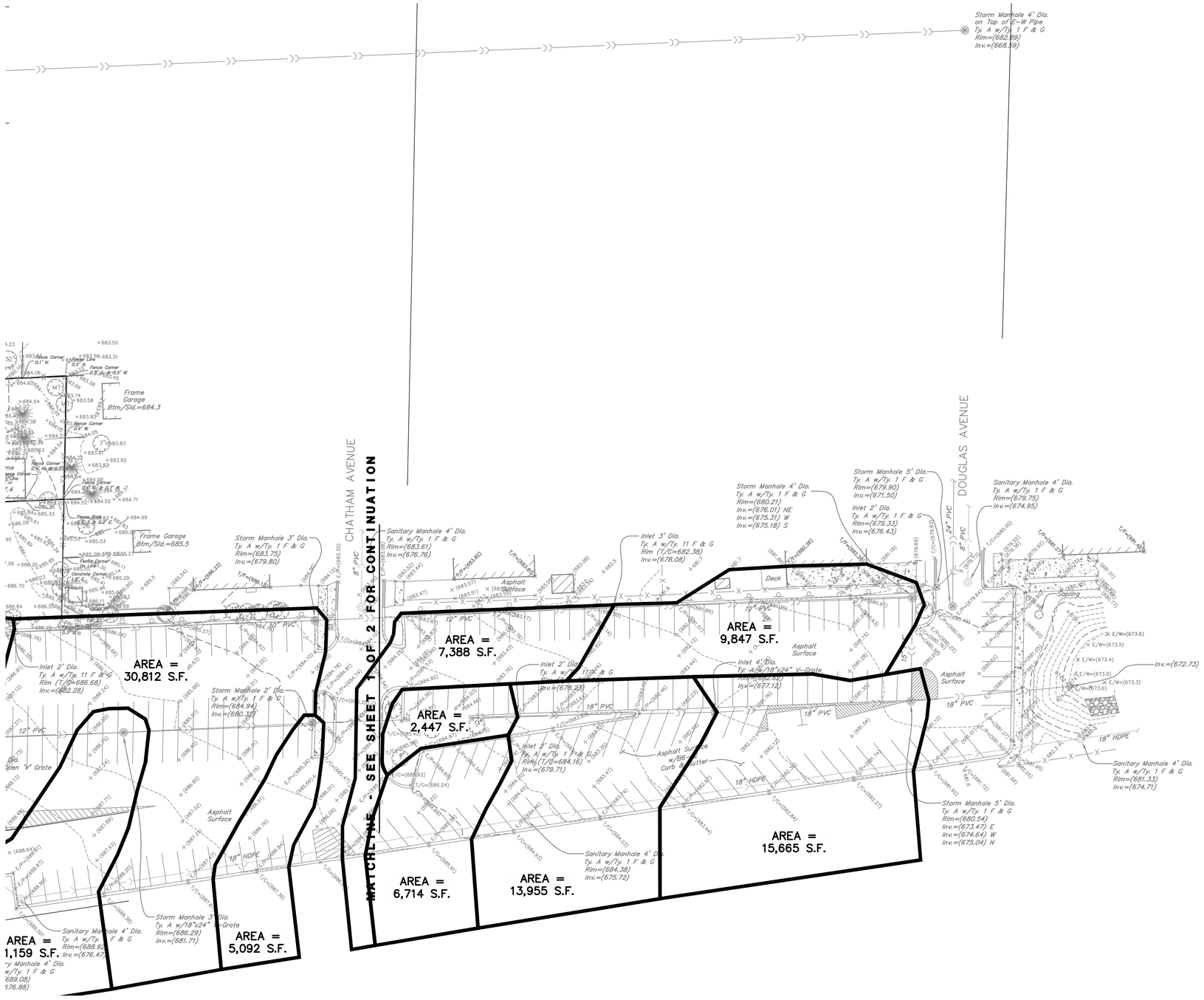
PLOT FILE CREATED: 9/1/2021 BY: DAVID DEMAY
DRAWING PATH: P:\904351\WORK\ENG\DRAWINGS\EXHIBITS\EXIST CATCHMENT EXHIBIT.DWG

EXISTING CATCHMENT EXHIBIT
FOR
GARDEN STATION



SCALE: 1 INCH = 30 FEET

LINE/SYMBOL/ABBREVIATION LEGEND

- BOUNDARY LIMITS
- ADJACENT PROPERTY OR R.O.W. LINE
- UNDERLYING PARCEL LINES
- OHW — OVERHEAD WIRES
- G — UNDERGROUND GAS LINE
- UNDERGROUND STORM LINE
- UNDERGROUND SANITARY LINE
- W — UNDERGROUND WATER LINE
- X — FENCE
- AC — AIR CONDITIONER
- B — BOLLARD
- C — CABLE TV PEDESTAL
- STORM MANHOLE
- CATCH BASIN
- INLET
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- VALVE VAULT
- GM — GAS METER
- GV — GAS VALVE
- GAS MARKER POST
- HAND HOLE
- EJB — ELECTRIC JUNCTION BOX
- E — ELECTRIC MANHOLE
- EM — ELECTRIC METER
- E — ELECTRIC PEDESTAL
- T — ELECTRIC TRANSFORMER
- LIGHT STANDARD
- SIGN
- TJB — TELEPHONE JUNCTION BOX
- T — TELEPHONE MANHOLE
- P — TELEPHONE PEDESTAL
- UTILITY POLE
- GUY WIRE
- BRICK SURFACE
- CONCRETE SURFACE
- R.O.W. — RIGHT OF WAY
- B–B — BACK–TO–BACK
- E–E — EDGE–TO–EDGE
- 12" — DECIDUOUS TREE w/TRUNK DIAM.

PREPARED FOR:

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DISC NO.: 904351 FILE NAME: EXIST CATCHMENT EXHIBIT
DRAWN BY: DDD FLD. BK. / PG. NO.: BK./PG.
COMPLETION DATE: 2021–08–31 JOB NO.: 904.351
XREF : TOPO PROJECT MANAGER : JCL

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EXHIBIT 2I

EXISTING STORM SEWER CALCULATIONS

EXISTING STORM SEWER CALCULATIONS
(10 Year Critical Duration Storm)

Upstream Node Number	Downstream Node Number	Length (ft)	Inlet Area (acres)	Runoff Coefficient	Inlet CA (acres)	Total CA (acres)	TC (min)	Sys Flow Time (min)	I (in/hr)	Q (cfs)	Size (inch)	S (%)	Capacity (cfs)	Velocity (ft/s)	Upstream Rim (ft)	Upstream HGL (ft)	Upstream Invert (ft)	Downstream Rim (ft)	Downstream HGL (ft)	Downstream Invert (ft)
FES Ex-1																				
Ex-18	Ex-17	89	0.19	0.87	0.17	0.17	10	10.00	6.78	1.13	8	1.58	1.98	3.24	694.15	692.83	690.25	693.24	692.37	688.84
Ex-17	Ex-16	138	0.34	0.87	0.30	0.46	10	10.46	6.67	3.10	8	1.82	2.12	8.88	693.24	692.37	688.84	690.58	686.91	686.33
Ex-16	Ex-15	142	0.12	0.87	0.10	0.57	10	10.72	6.60	3.76	12 inch	1.94	6.46	8.54	690.58	686.91	686.08	687.67	685.24	683.32
Ex-9	Ex-8	65	0.40	0.87	0.35	0.35	10	10.00	6.78	2.38	8	1.05	1.61	6.81	688.92	688.92	684.97	688.49	688.49	684.29
Ex-15	Ex-14	107	0.30	0.87	0.26	0.83	10	10.99	6.54	5.45	12 inch	1.50	5.68	6.93	687.67	685.24	683.32	688.29	683.76	681.71
Ex-8	Ex-7	170	0.35	0.87	0.30	0.65	10	10.16	6.74	4.43	10	1.18	3.10	8.13	688.49	688.49	684.29	686.68	686.68	682.28
Ex-14	Ex-13	107	0.26	0.87	0.23	1.05	10	11.25	6.47	6.87	12 inch	1.30	5.28	8.75	688.29	683.76	681.71	684.94	681.41	680.32
Ex-7	Ex-6	170	0.30	0.87	0.26	0.91	10	10.51	6.66	6.13	10	1.46	3.44	11.24	686.68	686.68	682.28	683.75	683.75	679.80
Ex-13	Ex-11	117	0.12	0.87	0.10	1.16	10	11.46	6.42	7.49	15	1.79	11.22	9.79	684.94	681.41	680.32	683.88	679.37	678.23
Ex-12	Ex-11	12	0.15	0.87	0.13	0.13	10	10.00	6.78	0.89	12 inch	12.33	16.26	11.09	684.16	680.11	679.71	683.88	679.37	678.23
Ex-6	Ex-5	171	0.71	0.87	0.62	1.53	10	10.76	6.59	10.18	12 inch	1.01	4.64	12.96	683.75	683.75	679.80	682.38	682.38	678.08
Ex-11	Ex-10	112	0.06	0.87	0.05	1.34	10	11.65	6.38	8.61	18	0.99	13.59	8.14	683.88	679.37	678.23	682.62	678.36	677.12
Ex-5	Ex-3	169	0.17	0.87	0.15	1.68	10	10.98	6.54	11.07	12 inch	1.64	5.93	14.10	682.38	682.38	678.08	680.21	678.36	675.31
Ex-4	Ex-3	16	0.00	0.00	0.00	0.00	10	10.00	0.00	0.00	12 inch	2.62	7.50	0.00	679.33	678.36	676.43	680.21	678.36	676.01
Ex-10	Ex-2	112	0.32	0.87	0.28	1.62	10	11.88	6.32	10.31	18	2.21	20.32	11.54	682.62	678.36	677.12	680.54	677.10	674.64
Ex-3	Ex-2	59	0.23	0.87	0.20	1.88	10	11.18	6.49	12.30	15	0.24	4.09	10.02	680.21	678.36	675.18	680.54	677.10	675.04
Ex-2	Ex-1	92	0.36	0.87	0.31	3.81	10	12.05	6.28	24.13	18	0.80	12.25	13.65	680.54	677.10	673.47	675.00	672.73	672.73

Worksheet 2: Runoff Curve Number and Runoff

Project Garden Station Apartments By JMH Date 8/23/2021
Location Villa Park, IL Rev Date

Circle one: Present (Developed)

SUBAREA 001

1. Runoff curve number (CN)

Soil Name and Hydroogic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area _X_ acres __mi2 __%	Product of CN x Area
B	Open Space - Good Condition	0.35			0.56	0.196
B	Impervious Area	0.95			3.83	3.6385
1/ Use only one CN source per line.			Totals =		4.39	3.835

CN (weighted) = Total Product / Total Area = 3.835 / 4.390 = 0.873

Use CN = 0.87

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

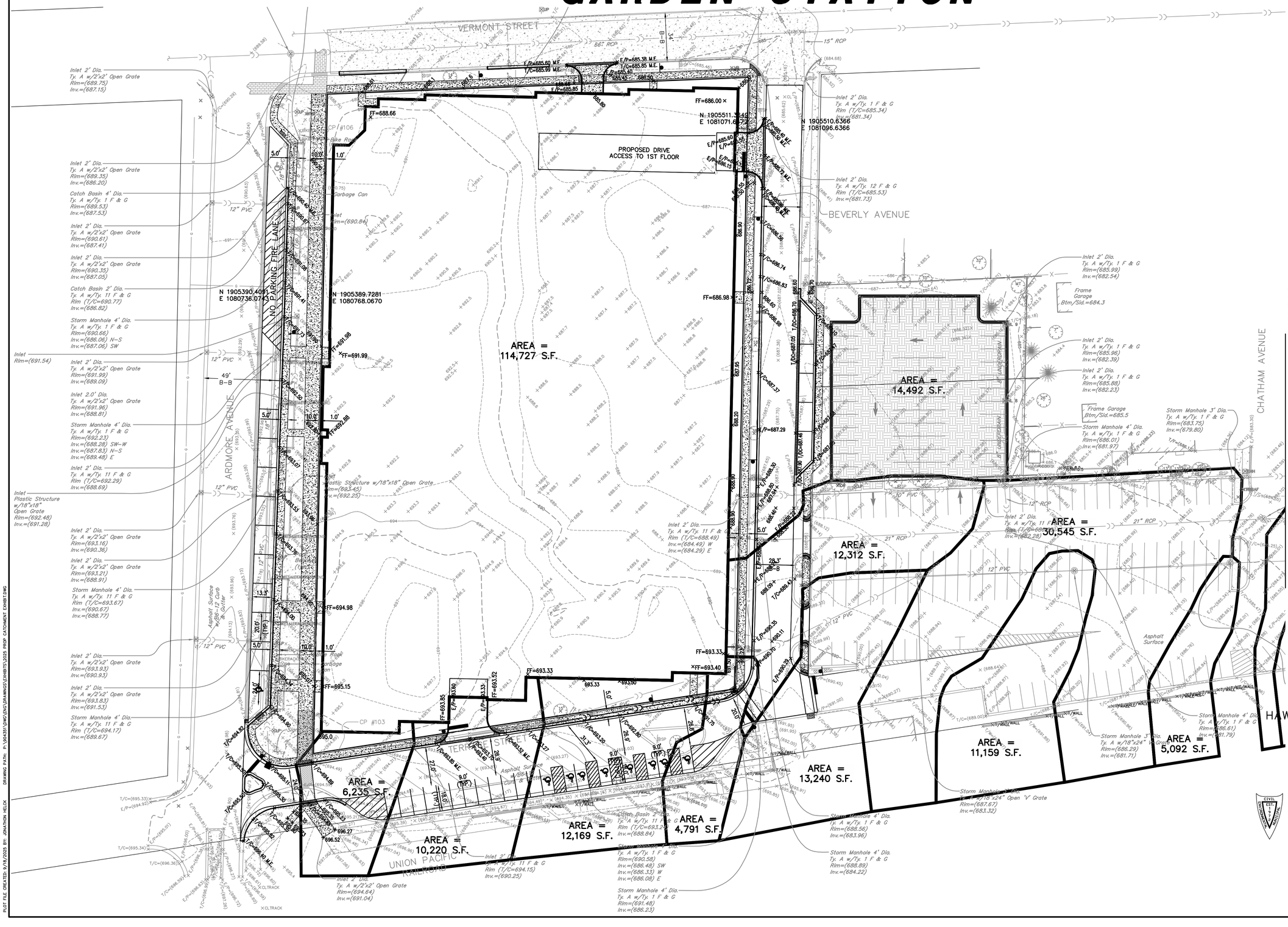
(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

EXHIBIT 2J

PROPOSED STORM SEWER

CATCHMENT EXHIBIT

PROPOSED CATCHMENT EXHIBIT
FOR
GARDEN STATION



30 15 0 30

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DISC NO.: 904351 FILE NAME: PROP CATCHMENT EXHIBIT
DRAWN BY: DDD FLD. BK. / PG. NO.: BK./PG.
COMPLETION DATE: 2021–09–01 JOB NO.: 904.351
XREF : TOPO PROJECT MANAGER : JCL

REVISED: 2025–09–18 ; TOPO REVISION

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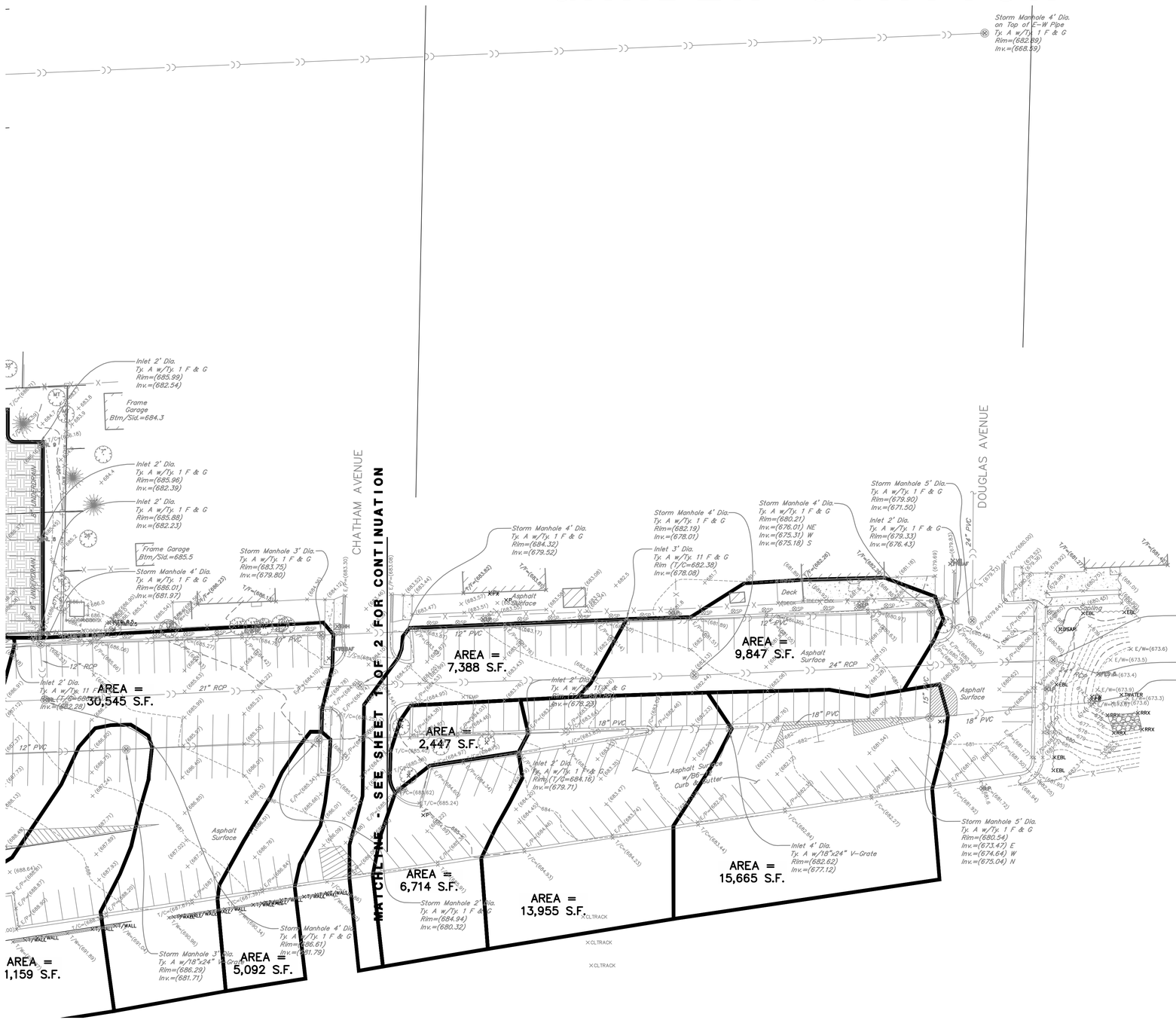
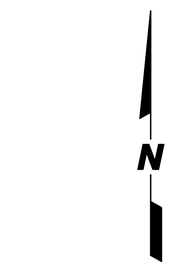
PROPOSED CATCHMENT EXHIBIT
FOR
GARDEN STATION





30 15 0 30

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EXHIBIT 2K

PROPOSED STORM SEWER

CALCULATIONS

PROPOSED STORM SEWER CALCULATIONS
(10 Year Critical Duration Storm)
(No Interconnect)

Upstream Node Number	Downstream Node Number	Length (ft)	Inlet Area (acres)	Runoff Coefficient	Inlet CA (acres)	Total CA (acres)	TC (min)	Sys Flow Time (min)	I (in/hr)	Q (cfs)	Size (inch)	S (%)	Capacity (cfs)	Velocity (ft/s)	Upstream Rim (ft)	Upstream HGL (ft)	Upstream Invert (ft)	Downstream Rim (ft)	Downstream HGL (ft)	Downstream Invert (ft)
FES Ex-1																				
Ex-18	Ex-17	89	0.14	0.95	0.13	0.13	5	5.00	7.44	1.00	8	1.58	1.98	5.68	694.15	690.90	690.25	693.24	690.54	688.84
Ex-17	1	135	0.23	0.95	0.22	0.35	5	5.26	7.41	2.62	12	1.75	4.71	3.34	693.24	690.54	688.84	691.30	689.81	686.48
9-U.D.	9	118	0.11	0.35	0.04	0.04	5	5.00	7.44	0.29	4 inch	2.72	0.41	3.31	687.75	686.92	685.75	686.50	685.31	682.54
1	Ex-16	17	0.28	0.95	0.27	0.62	5	5.93	7.32	4.55	12	1.00	3.56	5.80	691.30	689.81	686.48	690.58	689.53	686.31
9	8	52	N/A	N/A	N/A	0.04	N/A	5.59	7.36	0.29	8	0.31	0.87	0.82	686.50	685.31	682.54	686.50	685.30	682.38
8-U.D.	8	118	0.11	0.35	0.04	0.04	5	5.00	7.44	0.29	4 inch	3.24	0.45	3.31	687.60	686.90	686.20	686.50	685.30	682.38
Ex-16	Ex-15	141	0.11	0.95	0.10	0.72	5	5.98	7.31	5.32	12 inch	1.96	6.48	6.77	690.58	689.53	686.08	687.67	687.67	683.32
7-U.D.	7	118	0.11	0.35	0.04	0.04	5	5.00	7.44	0.29	4 inch	3.37	0.45	3.31	688.20	686.84	686.20	686.45	685.23	682.22
8	7	52	N/A	N/A	N/A	0.08	N/A	6.65	7.22	0.56	8	0.31	0.87	1.61	686.50	685.30	682.38	686.45	685.23	682.22
Ex-15	Ex-14	107	0.30	0.95	0.28	1.01	5	6.33	7.26	7.37	12 inch	1.50	5.68	9.39	687.67	687.67	683.32	688.29	685.68	681.71
Ex-7	6	13	0.28	0.95	0.27	0.27	5	5.00	7.44	1.99	10	0.62	2.23	3.66	686.68	685.27	682.28	686.20	685.21	682.20
7	6	7	0.00	0.95	0.00	0.12	5	7.19	7.15	0.83	8	0.29	0.84	2.38	686.45	685.23	682.22	686.20	685.21	682.20
Ex-14	Ex-13	107	0.26	0.95	0.25	1.25	5	6.52	7.24	9.15	12 inch	1.30	5.28	11.65	688.29	685.68	681.71	684.94	681.50	680.32
6	Ex-6	157	0.00	0.95	0.00	0.38	5	7.24	7.14	2.75	10	1.53	3.52	5.04	686.20	685.21	682.20	683.75	683.75	679.80
Ex-13	Ex-11	117	0.12	0.95	0.11	1.37	5	6.67	7.22	9.95	15	1.79	11.22	10.33	684.94	681.50	680.32	683.88	679.52	678.23
Ex-12	Ex-11	12	0.15	0.95	0.14	0.14	5	5.00	7.44	1.07	12 inch	12.33	16.26	11.70	684.16	680.15	679.71	683.88	679.52	678.23
Ex-6	Ex-5	171	0.70	0.95	0.66	1.05	5	7.76	7.08	7.46	12 inch	1.01	4.64	9.50	683.75	683.75	679.80	682.38	682.38	678.08
Ex-11	Ex-10	112	0.06	0.95	0.06	1.57	5	6.86	7.19	11.37	18	0.99	13.59	8.61	683.88	679.52	678.23	682.62	678.49	677.12
Ex-5	Ex-3	169	0.17	0.95	0.16	1.21	5	8.06	7.04	8.57	12 inch	1.64	5.93	10.91	682.38	682.38	678.08	680.21	678.32	675.31
Ex-4	Ex-3	16	0.00	0.95	0.00	0.00	5	5.00	0.00	0.00	12 inch	2.62	7.50	0.00	679.33	678.32	676.43	680.21	678.32	676.01
Ex-10	Ex-2	112	0.32	0.95	0.30	1.87	5	7.08	7.17	13.52	18	2.21	20.32	12.30	682.62	678.49	677.12	680.54	677.47	674.64
Ex-3	Ex-2	59	0.23	0.95	0.22	1.43	5	8.32	7.00	10.07	15	0.24	4.09	8.20	680.21	678.32	675.18	680.54	677.47	675.04
Ex-2	Ex-1	92	0.36	0.95	0.34	3.64	5	8.44	6.99	25.63	18	0.80	12.25	14.51	680.54	677.47	673.47	675.00	672.73	672.73
FES 5																				
12	10	74	1.32	0.95	1.25	1.25	5	10.00	6.78	8.57	15	2.70	10.62	9.63	691.50	687.34	686.20	689.00	685.71	684.20
10	10A	17	1.32	0.95	1.25	2.51	5	10.13	6.75	17.06	21	1.29	18.02	8.53	689.00	685.71	684.20	689.00	685.49	683.98
10A	2	169	0.00	0.00	0.00	2.51	5	10.16	6.74	17.04	21	1.30	18.04	8.53	689.00	685.49	683.98	686.80	683.36	681.79
2	3	176	0.00	0.00	0.00	2.51	5	10.49	6.66	19.04	21	1.30	18.07	8.50	686.80	683.36	681.79	684.60	681.06	679.50
3	11	186	N/A	N/A	N/A	2.51	N/A	10.84	6.58	18.82	24	0.76	19.77	7.16	684.60	681.06	679.50	682.13	679.63	678.08
11	4	200	0.00	0.00	0.00	2.51	5	11.27	6.47	18.56	24	0.76	19.72	7.14	682.13	679.63	678.08	680.70	675.36	676.56
4	5	28	N/A	N/A	N/A	2.51	5	11.74	6.36	18.27	24	1.50	27.71	9.42	680.70	675.36	673.82	678.50	673.40	673.40

*U.D. refers to upstream underdrains and R.D. refers to upstream roof drains.
**In this set of results the interconnect is ignored to show insufficient capacity in the existing sewer as there is surcharging in the 10-year event.

PROPOSED STORM SEWER CALCULATIONS
(10 Year Critical Duration Storm)
(With Interconnect)

Upstream Node Number	Downstream Node Number	Length (ft)	Inlet Area (acres)	Runoff Coefficient	Inlet CA (acres)	Total CA (acres)	TC (min)	Sys Flow Time (min)	I (in/hr)	Q (cfs)	Size (inch)	S (%)	Capacity (cfs)	Velocity (ft/s)	Upstream Rim (ft)	Upstream HGL (ft)	Upstream Invert (ft)	Downstream Rim (ft)	Downstream HGL (ft)	Downstream Invert (ft)
FES Ex-1																				
Ex-18	Ex-17	89	0.14	0.95	0.13	0.13	5	5.00	7.44	1.00	8	1.58	1.98	5.68	694.15	690.90	690.25	693.24	690.54	688.84
Ex-17	1	135	0.23	0.95	0.22	0.35	5	5.26	7.41	2.62	12	1.75	4.71	3.34	693.24	690.54	688.84	691.30	689.81	686.48
9-U.D.	9	118	0.11	0.35	0.04	0.04	5	5.00	7.44	0.29	4 inch	2.72	0.41	5.07	687.75	686.05	685.75	686.50	683.41	682.54
1	Ex-16	17	0.28	0.95	0.27	0.62	5	5.93	7.32	4.55	12	1.00	3.56	5.80	691.30	689.81	686.48	690.58	689.53	686.31
9	8	52	N/A	N/A	N/A	0.04	N/A	5.39	7.39	0.29	8	0.31	0.87	0.82	686.50	683.41	682.54	686.50	683.40	682.38
8-U.D.	8	118	0.11	0.35	0.04	0.04	5	5.00	7.44	0.29	4 inch	3.24	0.45	5.43	687.60	686.50	686.20	686.50	683.40	682.38
Ex-16	Ex-15	141	0.11	0.95	0.10	0.72	5	5.98	7.31	5.32	12 inch	1.96	6.48	6.77	690.58	689.53	686.08	687.67	687.67	683.32
7-U.D.	7	118	0.11	0.35	0.04	0.04	5	5.00	7.44	0.29	4 inch	3.37	0.45	5.51	688.20	686.50	686.20	686.45	683.33	682.22
8	7	52	N/A	N/A	N/A	0.08	N/A	6.44	7.25	0.56	8	0.31	0.87	1.63	686.50	683.40	682.38	686.45	683.33	682.22
Ex-15	Ex-14	107	0.30	0.95	0.28	1.01	5	6.33	7.26	7.37	12 inch	1.50	5.68	9.39	687.67	687.67	683.32	688.29	685.68	681.71
Ex-7	6	13	0.28	0.95	0.27	0.27	5	5.00	7.44	1.99	10	0.62	2.23	3.66	686.68	683.37	682.28	686.20	683.31	682.20
7	6	7	0.00	0.95	0.00	0.12	5	6.97	7.18	0.84	8	0.29	0.84	2.43	686.45	683.33	682.22	686.20	683.31	682.20
Ex-14	Ex-13	107	0.26	0.95	0.25	1.25	5	6.52	7.24	9.15	12 inch	1.30	5.28	11.65	688.29	685.68	681.71	684.94	681.50	680.32
6	Ex-6	157	0.00	0.95	0.00	0.38	5	7.02	7.17	0.56	10	1.53	3.52	1.11	686.20	683.31	682.20	683.75	683.24	679.80
Ex-13	Ex-11	117	0.12	0.95	0.11	1.37	5	6.67	7.22	9.95	15	1.79	11.22	10.33	684.94	681.50	680.32	683.88	679.52	678.23
Ex-12	Ex-11	12	0.15	0.95	0.14	0.14	5	5.00	7.44	1.07	12 inch	12.33	16.26	11.70	684.16	680.15	679.71	683.88	679.52	678.23
Ex-6	Ex-5	171	0.70	0.95	0.66	1.05	5	9.39	6.86	5.04	12 inch	1.01	4.64	6.89	683.75	683.24	679.80	682.38	680.90	678.08
Ex-11	Ex-10	112	0.06	0.95	0.06	1.57	5	6.86	7.19	11.37	18	0.99	13.59	8.61	683.88	679.52	678.23	682.62	678.49	677.12
Ex-5	Ex-3	169	0.17	0.95	0.16	1.21	5	9.80	6.81	6.09	12 inch	1.64	5.93	8.30	682.38	680.90	678.08	680.21	677.56	675.31
Ex-4	Ex-3	16	0.00	0.95	0.00	0.00	5	5.00	0.00	0.00	12 inch	2.62	7.50	0.00	679.33	677.56	676.43	680.21	677.56	676.01
Ex-10	Ex-2	112	0.32	0.95	0.30	1.87	5	7.08	7.17	13.52	18	2.21	20.32	12.30	682.62	678.49	677.12	680.54	677.02	674.64
Ex-3	Ex-2	59	0.23	0.95	0.22	1.43	5	10.14	6.75	7.50	15	0.24	4.09	6.54	680.21	677.56	675.18	680.54	677.02	675.04
Ex-2	Ex-1	92	0.36	0.95	0.34	3.64	5	10.29	6.71	22.41	18	0.80	12.25	13.47	680.54	677.02	673.47	675.00	672.73	672.73
FES 5																				
12	10	74	1.32	0.95	1.25	1.25	5	10.00	6.78	8.57	15	2.70	10.62	9.63	691.50	687.34	686.20	689.00	685.71	684.20
10	10A	17	1.32	0.95	1.25	2.51	5	10.13	6.75	17.06	21	1.29	18.02	8.53	689.00	685.71	684.20	689.00	685.49	683.98
10A	2	169	0.00	0.00	0.00	2.51	5	10.16	6.74	17.04	21	1.30	18.04	8.53	689.00	685.49	683.98	686.80	683.36	681.79
2	3	176	0.00	0.00	0.00	2.51	5	10.49	6.66	19.04	21	1.30	18.07	8.50	686.80	683.36	681.79	684.60	681.06	679.50
3	11	186	N/A	N/A	N/A	2.51	N/A	10.84	6.58	18.82	24	0.76	19.77	7.16	684.60	681.06	679.50	682.13	679.63	678.08
11	4	200	0.00	0.00	0.00	2.51	5	11.27	6.47	18.56	24	0.76	19.72	7.14	682.13	679.63	678.08	680.70	675.36	676.56
4	5	28	N/A	N/A	N/A	2.51	N/A	11.74	6.36	18.27	24	1.50	27.71	9.42	680.70	675.36	673.82	678.50	673.40	673.40

*U.D. refers to upstream underdrains and R.D. refers to upstream roof drains.
**In this set of results it is assumed that 2.2 cfs is passed through the interconnect from the northern branch, structure 6, to the middle branch, structure 2.

Worksheet 2: Runoff Curve Number and Runoff

Project Garden Station Apartments By JMH Date 8/23/2021
Location Villa Park, IL Rev Date

Circle one: Present (Developed)

SUBAREA 001

1. Runoff curve number (CN)

Soil Name and Hydroogic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area _X_ acres __mi2 __%	Product of CN x Area
B	Open Space - Good Condition	0.35			0.63	0.2205
B	Impervious Area	0.95			3.42	3.249
1/ Use only one CN source per line.			Totals =		4.05	3.470

CN (weighted) = Total Product / Total Area = 3.470 / 4.050 = 0.857

Use CN = 0.86

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

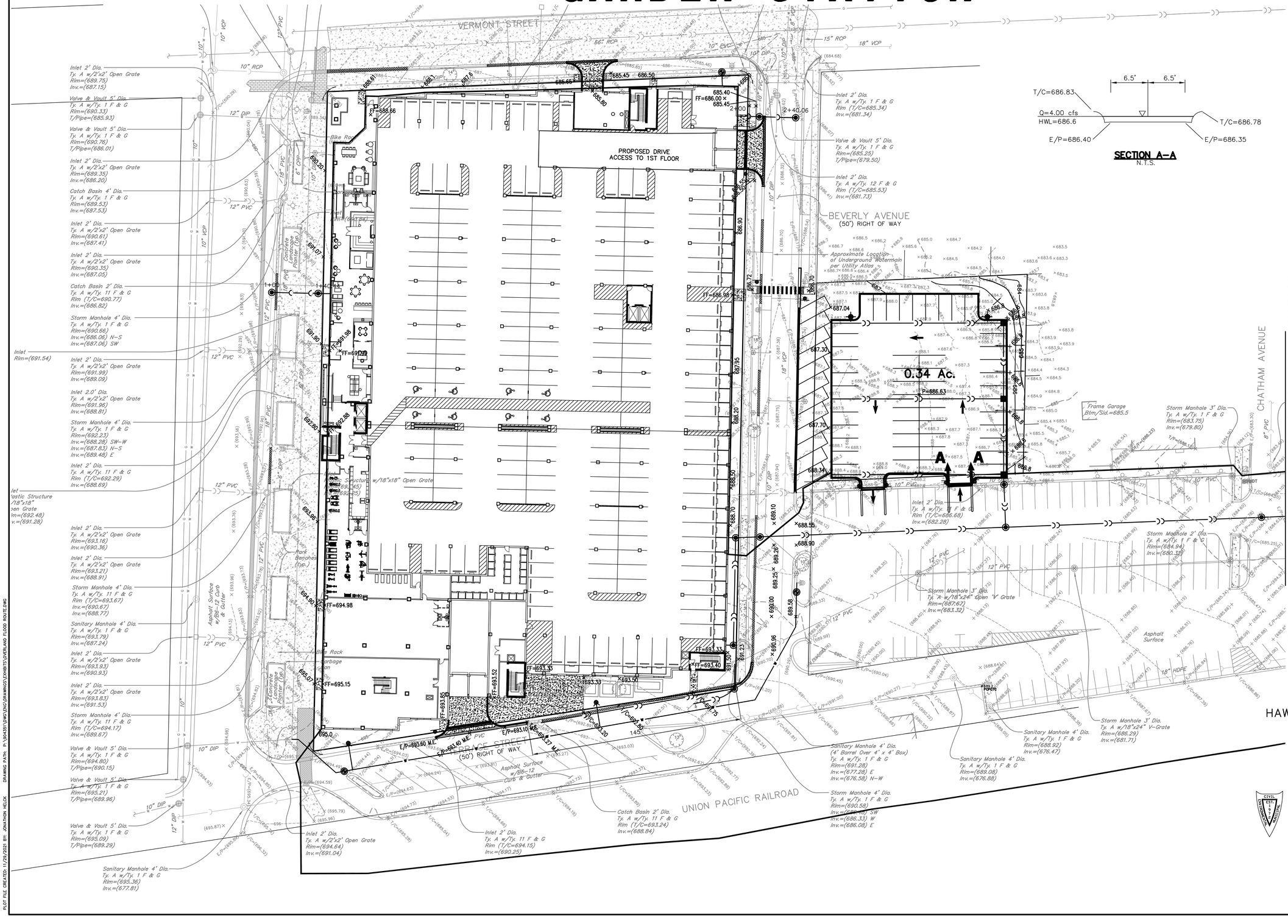
(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

EXHIBIT 2L

PROPOSED OVERLAND

FLOOD ROUTE EXHIBIT

OVERLAND FLOOD ROUTE EXHIBIT
FOR
GARDEN STATION



MATCHLINE - SEE SHEET 2 OF 2 FOR CONTINUATION

LINE/SYMBOL/ABBREVIATION LEGEND

- BOUNDARY LIMITS
- ADJACENT PROPERTY OR R.O.W. LINE
- UNDERLYING PARCEL LINES
- OHW — OVERHEAD WIRES
- G — UNDERGROUND GAS LINE
- UNDERGROUND STORM LINE
- UNDERGROUND SANITARY LINE
- W — UNDERGROUND WATER LINE
- X — FENCE
- AIR CONDITIONER
- BOLLARD
- CABLE TV PEDESTAL
- STORM MANHOLE
- CATCH BASIN
- INLET
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- VALVE VAULT
- GAS METER
- GAS VALVE
- GAS MARKER POST
- HAND HOLE
- ELECTRIC JUNCTION BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC PEDESTAL
- ELECTRIC TRANSFORMER
- LIGHT STANDARD
- SIGN
- TELEPHONE JUNCTION BOX
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- UTILITY POLE
- GUY WIRE
- BRICK SURFACE
- CONCRETE SURFACE
- R.O.W. RIGHT OF WAY
- B-B BACK-TO-BACK
- E-E EDGE-TO-EDGE
- 12" DECIDUOUS TREE w/TRUNK DIAM.

PREPARED FOR:

HAWTHORNE DEVELOPMENT CORPORATION
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235-6647

PREPARED BY:

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DISC NO.: 904351 FILE NAME: OVERLAND FLOOD ROUTE
DRAWN BY: KMS FLD. BK. / PG. NO.: BK./PG.
COMPLETION DATE: 09-08-21 JOB NO.: 904.351
XREF : TOPO PROJECT MANAGER : JCL

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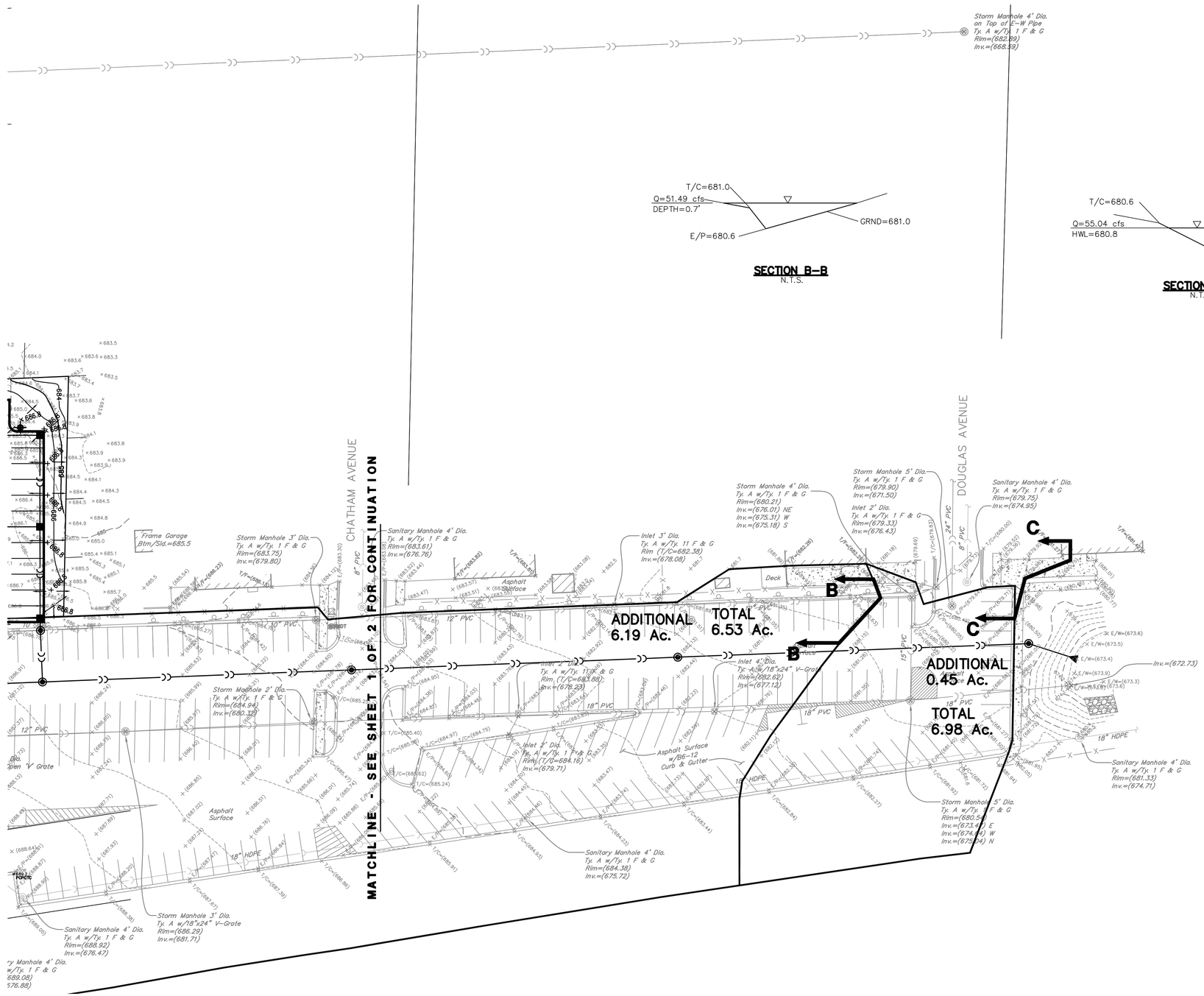

SECTION B–B
N.T.S.

SECTION C–C
N.T.S.

30 15 0 30

SCALE: 1 INCH = 30 FEET

LINE/SYMBOL/ABBREVIATION LEGEND

- BOUNDARY LIMITS
- ADJACENT PROPERTY OR R.O.W. LINE
- UNDERLYING PARCEL LINES
- OHW — OVERHEAD WIRES
- G — UNDERGROUND GAS LINE
- UNDERGROUND STORM LINE
- UNDERGROUND SANITARY LINE
- W — UNDERGROUND WATER LINE
- X — FENCE
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- GAS MARKER POST
- HAND HOLE
- ELECTRIC JUNCTION BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC PEDESTAL
- ELECTRIC TRANSFORMER
- LIGHT STANDARD
- SIGN
- TELEPHONE JUNCTION BOX
- TELEPHONE MANHOLE
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- GUY WIRE
- BRICK SURFACE
- CONCRETE SURFACE
- R.O.W. RIGHT OF WAY
- B–B BACK–TO–BACK
- E–E EDGE–TO–EDGE
- 12" DECIDUOUS TREE w/TRUNK DIAM.

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EXHIBIT 2M

PROPOSED OVERLAND

FLOOD ROUTE CALCULATIONS

Worksheet 2: Runoff Curve Number and Runoff

Project Garden Station Parking Lot By jcl Date 4/29/2021
Location Villa Park Rev JMH Date 9/7/2021

Circle one: Present (Developed) **SUBAREA 001**

1. Runoff curve number (CN)

Soil Name and Hydroogic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area _X_ acres __mi2 __%	Product of CN x Area
C	Open Space Good Condition	74			0.78	57.72
C	Impervious Area	98			2.58	252.84

1/ Use only one CN source per line. Totals = 3.36 310.560

CN (weighted) = Total Product / Total Area = 310.560 / 3.360 = 92.429

Use CN = 92.4

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

Project Garden Station | By JMH | Date 10/6/2021
Location | Checked | Date

Check one: ☑ Present ☐ Developed
Check one: ☐ Tc ☐ Tt

Near to SECTION A-A
Existing run-off

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)

		Segment ID				
1.	Surface Description (Table 3-1)		Dense Grass			
2.	Manning's roughness coeff., n (Table 3-1)		0.24			
3.	Flow length, L (total L ≤ 300 ft)	ft	80			
4.	Two-yr 24-hr rainfall, P_2	in	3.34			
5.	Land slope, s	ft/ft	0.03			
6.	$Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\,s^{0.4}}$	hr	0.166	+	=	0.166

Shallow Concentrated Flow

		Segment ID				
7.	Surface description (paved or unpaved)		unpaved			
8.	Flow length, L					
9.	Watercourse slope, s					
10.	Average velocity, V (figure 3-1)					
11.	$T_t = \frac{L}{3600\,V}$	hr		+	=	

Channel Flow

		Segment ID				
12.	Cross sectional flow area, a	ft^2				
13.	Wetted perimeter, pw	ft				
14.	Hydraulic radius, r= a/pw compute r	ft				
15.	Channel Slope, s	ft/ft				
16.	Manning's roughness coeff., n					
17.	$V = 1.49\,r^{2/3}\,s^{1/2} / n$	ft/s				
18.	Flow length, L	ft				
19.	$T_t = \frac{L}{3600\,V}$	hr		+	=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19) — hr 0.166; min* 10

Determine Height Of Water For The Overland Flood Route At V-Notch Weir Location

Assumption: 100 year event used for intensity

Governing Equations:

Flow:
Q=ciA where: Q is rate of flow (cfs)
c is runoff coefficient
i is intensity (in/hr); i=Tc
A is area (Acres)

Flow Through A V-Notched Weir:

Q=(DC)*(H^(5/2))*(TAN(Theta/2))

where: DC is the discharge coefficient

H is the depth of 100 year high water level measured from the v-notch

Theta is the angle of the v-notched weir

Constants:

Runoff Coefficient*:	0.52
Discharge Coefficient At Weir:	2.70
Distance From T/F To F/G:	N/A
Intensity - I=Tc:	11.34

*A weighted average was found using 0.35 for pervious area and 0.95 for impervious area

Calculations:

Lot No.	T/F	F/G	Side Setback	Weir Elev.	Trib. Area (Acres)	Q (cfs)	Tan Mu (deg.)	Angle (deg.)	Theta (deg.)	Tan 1/2 Theta (deg.)	F/G and Weir Diff.	Depth	100 Year HWL
					0.28	1.65							

Project Garden Station | By JMH | Date 9/7/2021
Location | Revised | Date

Check one: ☐ Present ☑ Developed
Check one: ☐ Tc ☐ Tt

SECTION A-A

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)

		Segment ID				
1.	Surface Description (Table 3-1)		Pavement			
2.	Manning's roughness coeff., n (Table 3-1)		0.013			
3.	Flow length, L (total L ≤ 300 ft)	ft	100			
4.	Two-yr 24-hr rainfall, P_2	in	3.34			
5.	Land slope, s	ft/ft	0.02			
6.	$Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\,s^{0.4}}$	hr	0.023	+	=	0.023

Shallow Concentrated Flow

		Segment ID				
7.	Surface description (paved or unpaved)		paved			
8.	Flow length, L		65			
9.	Watercourse slope, s		0.002			
10.	Average velocity, V (figure 3-1)		0.93			
11.	$T_t = \frac{L}{3600\,V}$	hr	0.019	+	=	0.019

Channel Flow

		Segment ID				
12.	Cross sectional flow area, a	ft^2				
13.	Wetted perimeter, pw	ft				
14.	Hydraulic radius, r= a/pw compute r	ft				
15.	Channel Slope, s	ft/ft				
16.	Manning's roughness coeff., n					
17.	$V = 1.49\,r^{2/3}\,s^{1/2} / n$	ft/s				
18.	Flow length, L	ft				
19.	$T_t = \frac{L}{3600\,V}$	hr		+	=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19) hr 0.042
min* 5

Determine Height Of Water For The Overland Flood Route At Trapezoid Weir Location

Assumption: 100 year event used for intensity

Governing Equations:

Flow:
Q=ciA where: Q is rate of flow (cfs)
c is runoff coefficient
i is intensity (in/hr)
A is area (Acres)

Flow Through A Trapeziod Weir:

Q=(DC)*(L*(H^(3/2))+(Z*(H^(5/2))))

where: DC is the discharge coefficient

H is the depth of 100 year high water level measured from the bottom of the notch

Z is Tan(Theta/2)
L is the length of notch at bottom, ft.

Constants:

Runoff Coefficient:	0.95
Discharge Coefficient At Weir:	3.33
Distance From T/F To F/G:	0.7
Intensity - I(Tc)=:	12.38

*Minimum Tc of 5min used as no intensities are provided for shorter times of concentration in the source documentation.

Calculations:

Lot No.	T/F	F/G	Side Setback	Weir Elev.	Notch Length	Trib. Area (Acres)	Q (cfs)	Tan Mu (ft/ft)	Angle (deg.)	Theta (deg.)	Tan 1/2 Theta (ft/ft)	F/G and Weir Diff.	Depth	100 Year HWL
T/C	-	686.8	1.5	686.4	13	0.34	4.00	3.947	75.78	149.79	3.70	0.4	0.198	686.6
T/C	-	686.8	1.5					3.488	74.00			0.4		

H	H^(3/2)	H^(5/2)	Q
0.19800	0.088	0.017	4.029

Project Garden Station | By JMH | Date 9/7/2021
Location | Revised JMH | Date 11/18/2021

Check one: ☐ Present ☑ Developed
Check one: ☐ Tc ☐ Tt

SECTION B-B

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)

		Segment ID				
1.	Surface Description (Table 3-1)		Grass			
2.	Manning's roughness coeff., n (Table 3-1)		0.24			
3.	Flow length, L (total L ≤ 300 ft)	ft	50			
4.	Two-yr 24-hr rainfall, P_2	in	3.34			
5.	Land slope, s	ft/ft	0.005			
6.	$Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\,s^{0.4}}$	hr	0.233	+	=	0.233

Shallow Concentrated Flow

		Segment ID				
7.	Surface description (paved or unpaved)		paved			
8.	Flow length, L		900			
9.	Watercourse slope, s		0.02			
10.	Average velocity, V (figure 3-1)		2.93			
11.	$T_t = \frac{L}{3600\,V}$	hr	0.085	+	=	0.085

Channel Flow

		Segment ID				
12.	Cross sectional flow area, a	ft^2				
13.	Wetted perimeter, pw	ft				
14.	Hydraulic radius, r= a/pw compute r	ft				
15.	Channel Slope, s	ft/ft				
16.	Manning's roughness coeff., n					
17.	$V = 1.49\,r^{2/3}\,s^{1/2} / n$	ft/s				
18.	Flow length, L	ft				
19.	$T_t = \frac{L}{3600\,V}$	hr		+	=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19) hr 0.318
min 20

Determine Height Of Water For The Overland Flood Route At V-Notch Weir Location

Assumption: 100 year event used for intensity

Governing Equations:

Flow:
Q=ciA where: Q is rate of flow (cfs)
c is runoff coefficient
i is intensity (in/hr)
A is area (Acres)

Flow Through A V-Notched Weir:

Q=(DC)*(H^(5/2))*(TAN(Theta/2))

where: DC is the discharge coefficient

H is the depth of 100 year high water level measured from the v-notch

Theta is the angle of the v-notched weir

Constants:

Runoff Coefficient:	0.95
Discharge Coefficient At Weir:	2.70
Distance From T/F To F/G:	N/A
Intensity - I(Tc)=:	8.30

Calculations:

Lot No.	T/F	F/G	Side Setback	Weir Elev.	Trib. Area (Acres)	Q (cfs)	Tan Mu (ft/ft)	Angle (deg.)	Theta (deg.)	Tan 1/2 Theta (ft/ft)	F/G and Weir Diff.	Depth	100 Year HWL
					6.53	51.49							

Section B-B

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00750	ft/ft
Left Side Slope	1.25	ft/ft (H:V)
Right Side Slope	47.50	ft/ft (H:V)
Discharge	51.49	ft³/s

Results

Normal Depth	0.67	ft
Flow Area	10.86	ft²
Wetted Perimeter	32.79	ft
Hydraulic Radius	0.33	ft
Top Width	32.54	ft
Critical Depth	0.77	ft
Critical Slope	0.00341	ft/ft
Velocity	4.74	ft/s
Velocity Head	0.35	ft
Specific Energy	1.02	ft
Froude Number	1.45	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.67	ft
Critical Depth	0.77	ft
Channel Slope	0.00750	ft/ft
Critical Slope	0.00341	ft/ft

Project Garden Station | By JMH | Date 9/7/2021
Location | Revised JMH | Date 11/18/2021

Check one: ☐ Present ☑ Developed
Check one: ☐ Tc ☐ Tt

SECTION C-C

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)

		Segment ID				
1.	Surface Description (Table 3-1)		Grass			
2.	Manning's roughness coeff., n (Table 3-1)		0.24			
3.	Flow length, L (total L ≤ 300 ft)	ft	50			
4.	Two-yr 24-hr rainfall, P_2	in	3.34			
5.	Land slope, s	ft/ft	0.005			
6.	$Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\,s^{0.4}}$	hr	0.233	+	=	0.233

Shallow Concentrated Flow

		Segment ID				
7.	Surface description (paved or unpaved)		paved			
8.	Flow length, L		950			
9.	Watercourse slope, s		0.02			
10.	Average velocity, V (figure 3-1)		2.93			
11.	$T_t = \frac{L}{3600\,V}$	hr	0.090	+	=	0.090

Channel Flow

		Segment ID				
12.	Cross sectional flow area, a	ft^2				
13.	Wetted perimeter, pw	ft				
14.	Hydraulic radius, r= a/pw compute r	ft				
15.	Channel Slope, s	ft/ft				
16.	Manning's roughness coeff., n					
17.	$V = 1.49\,r^{2/3}\,s^{1/2} / n$	ft/s				
18.	Flow length, L	ft				
19.	$T_t = \frac{L}{3600\,V}$	hr		+	=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19) — hr 0.323; min 20

Determine Height Of Water For The Overland Flood Route At V-Notch Weir Location

Assumption: 100 year event used for intensity

Governing Equations:

Flow:
Q=ciA where: Q is rate of flow (cfs)
c is runoff coefficient
i is intensity (in/hr)
A is area (Acres)

Flow Through A V-Notched Weir:

Q=(DC)*(H^(5/2))*(TAN(Theta/2))

where: DC is the discharge coefficient
H is the depth of 100 year high water level measured from the v-notch
Theta is the angle of the v-notched weir

Constants:

Runoff Coefficient:	0.95
Discharge Coefficient At Weir:	2.70
Distance From T/F To F/G:	N/A
Intensity - I(Tc)=:	8.30

Calculations:

Lot No.	T/F	F/G	Side Setback	Weir Elev.	Trib. Area (Acres)	Q (cfs)	Tan Mu (ft/ft)	Angle (deg.)	Theta (deg.)	Tan 1/2 Theta (ft/ft)	F/G and Weir Diff.	Depth	100 Year HWL
Ex	681.3	680.7	25.5	680.0	6.98	55.04	35.417	88.38	176.86	36.54	0.7	0.792	680.8
Curb	N/A	680.6	23.4				37.742	88.48			0.6		

EXHIBIT 2N

PROPOSED REQUIRED DETENTION

GARDEN STATION APARTMENTS

VILLA PARK, ILLINOIS

9/9/21

Required Detention Storage Volumes

Projects Requiring Only Village Specific Detention (Appendix D)

Based on TR-55 Methodology: 24 Hour Event, Huff 3rd Quartile Distribution

2 YR Precipitation = 3.34 / 100 YR Precipitation = 8.57 inches

Runoff Curve Number	Required Storage Volume (ac-ft/ac)	
	2 Year 0.04 cfs/ac	100 Year 0.10 cfs/ac
70	0.041	0.322
71	0.046	0.332
72	0.050	0.342
73	0.054	0.351
74	0.058	0.361
75	0.062	0.370
76	0.067	0.380
77	0.072	0.389
78	0.077	0.399
79	0.082	0.408
80	0.087	0.417
81	0.092	0.427
82	0.098	0.436
83	0.104	0.445
84	0.110	0.455
85	0.115	0.464
86	0.122	0.473
87	0.128	0.483
88	0.134	0.492
89	0.141	0.501
90	0.147	0.510
91	0.155	0.519
92	0.162	0.528
93	0.169	0.537
94	0.176	0.546
95	0.184	0.555
96	0.192	0.564
97	0.200	0.573
98	0.208	0.581
99	0.216	0.590

92.4

NEW IMPERVIOUS AREA = 2.18 ACRES

@ 0.5316 ACRE-FEET/ACRE

= 1.159 ACRE-FEET OF STORAGE

EXHIBIT 2O

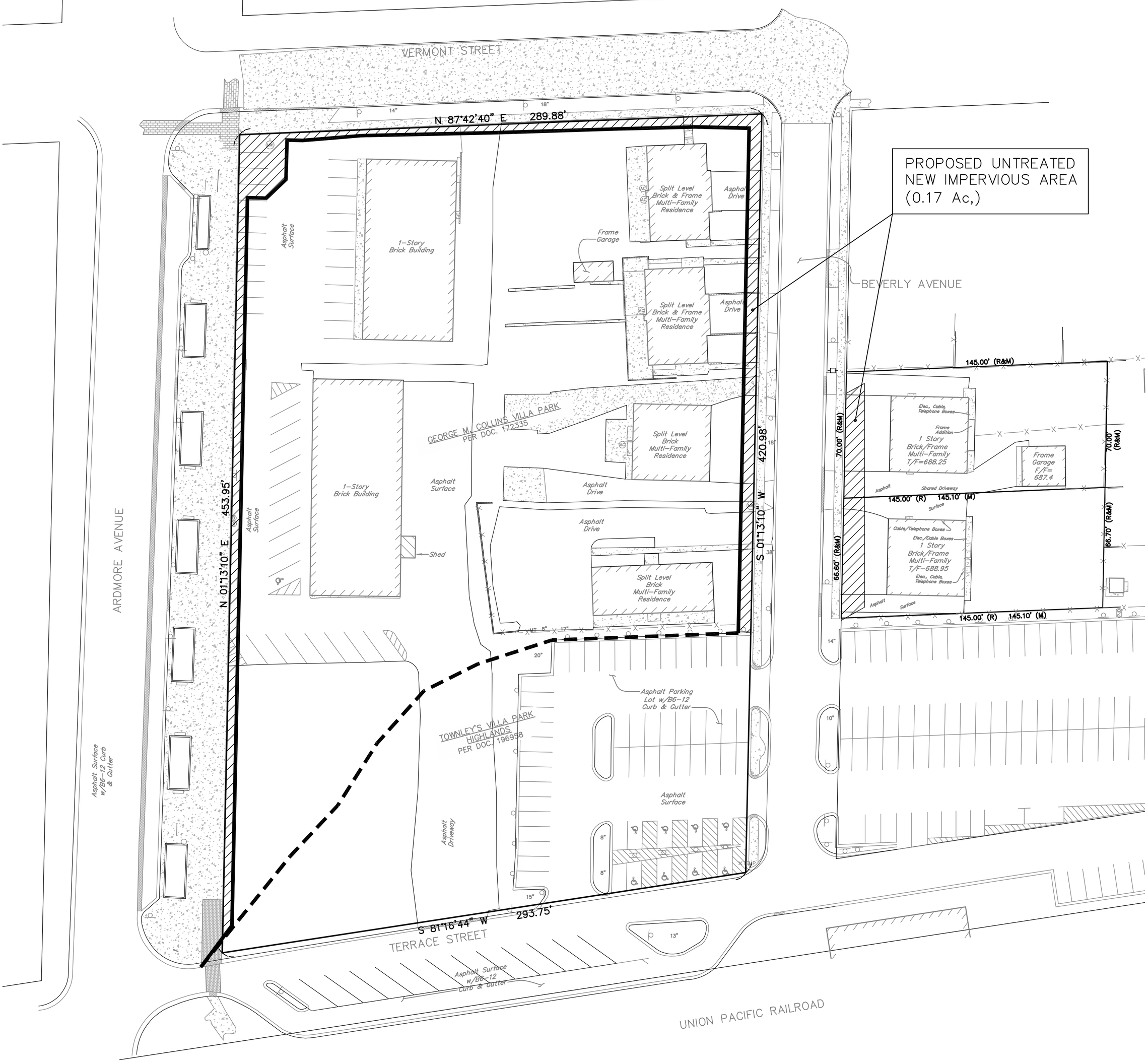
PCBMP TREATMENT AREA EXHIBIT

PCBMP TREATMENT AREA EXHIBIT
FOR
GARDEN STATION APARTMENTS

LOCATION MAP

N

30 15 0 30
SCALE: 1 INCH = 30 FEET



LEGEND

EXISTING	PROPOSED	DESCRIPTION
◎	◉	MANHOLE
○	●	CATCH BASIN
□	■	INLET
	⬢	CLEANOUT
	▭	SLOPE INLET BOX
⊢	⊢	HEADWALL
◁	◀	END SECTION
—C—	—C—	STORM SEWER
—S—	—S—	SANITARY SEWER
—W—	—W—	WATERMAIN
⊗	◔	VALVE & BOX
◎	◉	WATER VALVE IN VAULT
☼	☼	FIRE HYDRANT
600	600	CONTOURS
(ELEV)	ELEV	ELEVATIONS
☼	✦	STREET LIGHT
▬ ▬		WATERSHED RIDGE LINE
	▨	PROPOSED UNTREATED IMPERVIOUS AREA

PREPARED FOR:
HAWTHORNE DEVELOPMENT CORPORATION
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235-6647

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60502-9675
PH: 630.862.2100 FAX: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

DISC NO.: 904351 FILE NAME: EXIST IMPERV EXHIBIT
DRAWN BY: BCD FLD. BK. / PG. NO.: BK./PG.
COMPLETION DATE: 10-04-2021 JOB NO.: 904.351
XREF : TOPO & SITEPLAN PROJECT MANAGER : JCL

Revised: 11-24-2021 by JMH per Village Comments

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PLOT FILE CREATED: 11/29/2021 BY: JONATHON HELCK DRAWING PATH: P:\904351\DWG\ENG\DRAWINGS\EXHIBITS\ULTIMATE IMPERVIOUS.DWG

TAB 3

FLOODPLAIN SUBMITTAL

(N/A)

TAB 4

WETLAND SUBMITTAL

(N/A)

TAB 5

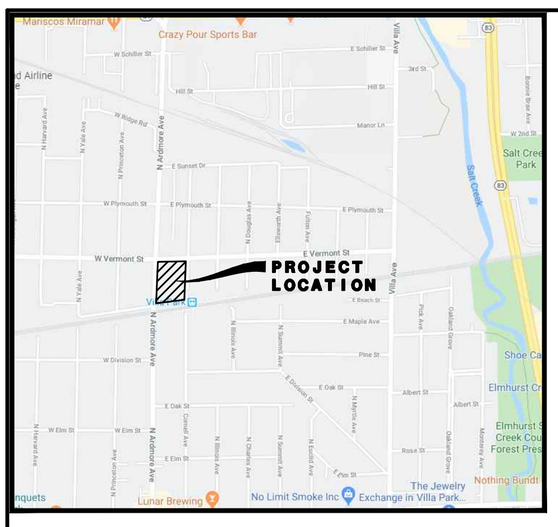
PLAN SET SUBMITTAL

(SEE ATTACHED PLAN)

AUTOTURN AND FIRE PROTECTION EXHIBIT

FOR

GARDEN STATION APARTMENTS



LOCATION MAP

N

30 15 0 30

SCALE: 1 INCH = 30 FEET

VERMONT STREET

BEVERLY AVENUE

ARDMORE AVENUE

TERRACE STREET

UNION PACIFIC RAILROAD

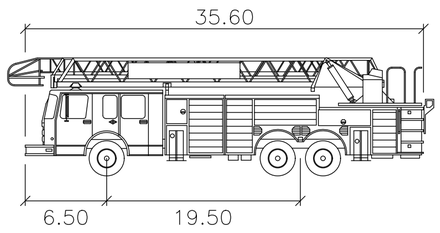
CP #106

CP #103

PROPOSED DRIVE ACCESS TO 1ST FLOOR

NO PARKING FIRE LANE

200.00'



Villa Park	feet
Width	: 8.33
Track	: 6.91
Lock to Lock Time	: 6.00
Steering Angle	: 45.00

PREPARED FOR:

HAWTHORNE VILLA PARK LP
100 TOWER DRIVE, SUITE 238
BURR RIDGE, ILLINOIS 60527
(312) 235-6647

PREPARED BY:

CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60502-9675
PH: 630.862.2100 FAX: 630.862.2199
E-Mail: info@cemcon.com Website: www.cemcon.com

DISC NO.: 904351 FILE NAME: FIRE
DRAWN BY: BCD FLD. BK. / PG. NO.: BK./PG.
COMPLETION DATE: 09-23-2025 JOB NO.: 904.351
XREF : OVERALL PROJECT MANAGER : KTS

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Kane-DuPage Soil & Water Conservation District

NATURAL RESOURCES INVENTORY

25-044

May 30, 2025

Prepared for:
Village of Villa Park

Petitioner:
Hawthorne World Villa Park, LP
100 Tower Dr. Ste. 238
Burr Ridge, IL 60527

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PURPOSE AND INTENT

This Natural Resources Inventory is intended to present the most current natural resource information available for a parcel, lot, or tract of land in an understandable format. It contains a description of the present conditions and resources available and their potential impact on each other, especially in regards to a proposed change to that parcel of land. This information comes from standardized data, investigations of the parcel, and other information furnished by the petitioner. **This report must be read in its entirety**, so that the relationship between natural resource factors and the proposed land use can be fully understood.

This report presents natural resource information to owners, land-managers, officials of local governing bodies, and other decision makers concerning the parcel. Decisions concerning variations, amendments, or relief of local zoning ordinances may reference this report. Also, decisions concerning the future of a proposed subdivision of vacant or agricultural lands, and the subsequent development of these lands may reference this report. This report is a requirement under the State of Illinois Soil and Water Conservation District Act contained in ILCS 70, 405/1 ET seq.

This report provides the best available natural resource information for the parcel and when used properly, will provide the basis for good land use change decisions and proper development while protecting the natural resource base of the county. However, because of the variability of nature, and because of the limitations of map scale and the precision of natural resource maps (which includes the property boundaries represented for the parcel), this report does not reflect precise natural resource information at specific locations within the parcel. On-site investigations, soil evaluations, and engineering studies should be conducted as necessary, for point-specific information.

This Natural Resources Inventory report is a review of the major natural resources of the site and a general estimate of the suitability of this site for the proposed use. Because of the small size of this parcel and because of the inherent probable errors in the precision of natural resource information at the scale of natural resource maps, the KDSWCD makes no opinion on the suitability of this site for the proposed use but may give general statements and an estimate of the possible effects of the land use change to the natural resources of this parcel. The information given in this report is based on the review of natural resource maps and literature by the Kane-DuPage Soil and Water Conservation District. The statements in this report are not meant as a recommendation for the success, nor the failure of, the proposed use of this parcel.

This report should alert the reader to the capabilities of the parcel and to the possible issues that may occur if the properties and characteristics of the land are ignored. Please direct technical questions about information supplied in this report to:

Kane-DuPage Soil & Water Conservation District
2315 Dean Street, Suite 100
St. Charles, IL 60175
Phone: (630) 584-7960 x3

EXECUTIVE SUMMARY
APPLICATION 25-044
May 30, 2025

Petitioner: Hawthorne World Villa Park LP

Contact Person: Ganesan Visvabharathy, 312-235-6647

Unit of Government Responsible for Permits: DuPage County

Acreage: 3.53

Area of Disturbance (acreage): 2.91

Location of Parcel: York Township 39N, Range 11E, Section 3

Property Address/PIN#: #06-03-122-001, 06-03-122-010, 06-03-122-012, 06-03-122-013, 06-03-122-014, 06-03-122-014, 06-03-122-015, 06-03-122-016, 06-03-122-017, 06-03-300-006, 06-03-123-006, 06-03-301-003**,** block bounded by E. Vermont St., N. Beverly Ave., W. Terrace St. & N. Ardmore Ave. Villa Park, IL 60181

Existing Land Use: Vacant, Parking Lot, Residential

Proposed Land Use: Mixed-use Commercial and Residential

NATURAL RESOURCE CONCERNS

Land Cover in the Early 1800's: This site is in an area previously identified as **Prairie** (**page 7**).

Wetlands: **The National Wetland Inventory map and the DuPage County Wetlands map do not** identify wetland areas on this site. If there are any indications of unidentified wetlands on this site, noticed during the proposed land use change, contact the appropriate county and federal wetland regulatory agencies (**pages 8-9**).

Floodplain: There are **no** floodplain areas identified on this site (**page 10**).

Streams: There are **no** streams on this site (**page 11**).

Watersheds and Subwatersheds: The map above indicates that **100 percent** of this site is located within the boundaries of subwatershed **HUC12-071200040404 Lower Salt Creek** of the **HUC10-0712000404 Salt Creek** watershed (**page 12**).

Aquifer Sensitivity: This site is classified as having a **Very Limited Potential** for aquifer contamination (**page 13**).

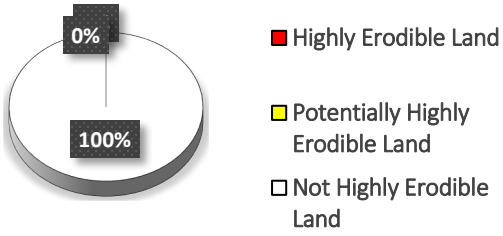
Topography and Overland Flow: The high point of this property is in the **Southwestern** portion of the site at an elevation of approximately **696 feet** above sea level. The property generally drains to the **East** via overland flow. The lowest elevation on the property is approximately **686 feet** above sea level (**page 14**).
Please Note: This site's actual topography does not match the map. The site has been materially altered after the topological map information was gathered and produced.

Stormwater Management: This site **may or may not** need a Stormwater Pollution Prevention Plan (SWPPP). Contact the KDSWCD for questions or assistance in developing a SWPPP (see **page 15**).

Soil Erosion: Many construction sites are required to develop and follow a Stormwater Pollution Prevention Plan (SWPPP) in order to be in compliance with local, state, and federal laws regarding soil erosion and stormwater management. Contact the KDSWCD for questions or assistance in developing a SWPPP (**page 15**).

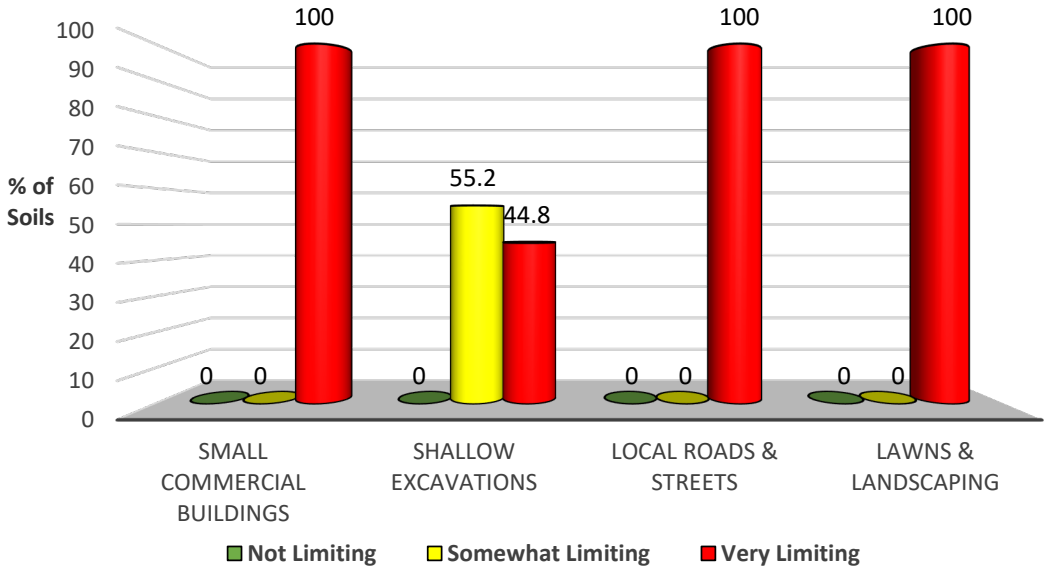
EXECUTIVE SUMMARY
APPLICATION 25-044
May 30, 2025

Highly Erodible Land: There are **is no Highly or Potentially Highly Erodible Land** identified on this site (**page 16**).



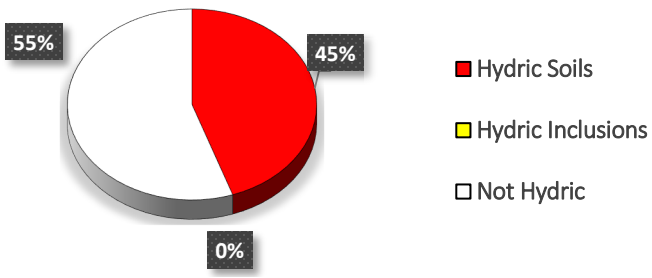
Regulations: Please note that additional permits are required for any development impacting wetlands, streams, or floodplain areas (**page 26**).

Soil Interpretations: Soils at this site may contain limitations for the proposed use. All information is from the Soil Survey of DuPage County, Illinois. The limiting factors for this site are: **Ponding, Frost Action, Depth to Saturated Zone, Droughty, Too Clayey, Organic Matter Content, Shrink-swell, Low Strength, and Subsidence** (**pages 17-23** and attached Soils Table on **page 18**).



Water Table: There is a seasonal high-water table at a depth of **2.49 to 2.76 feet** of the soil surface (**page 24**).

Hydric Soils: There are **Hydric Soils or Soils with Hydric Inclusions** identified on this site (**page 25**).



PARCEL LOCATION

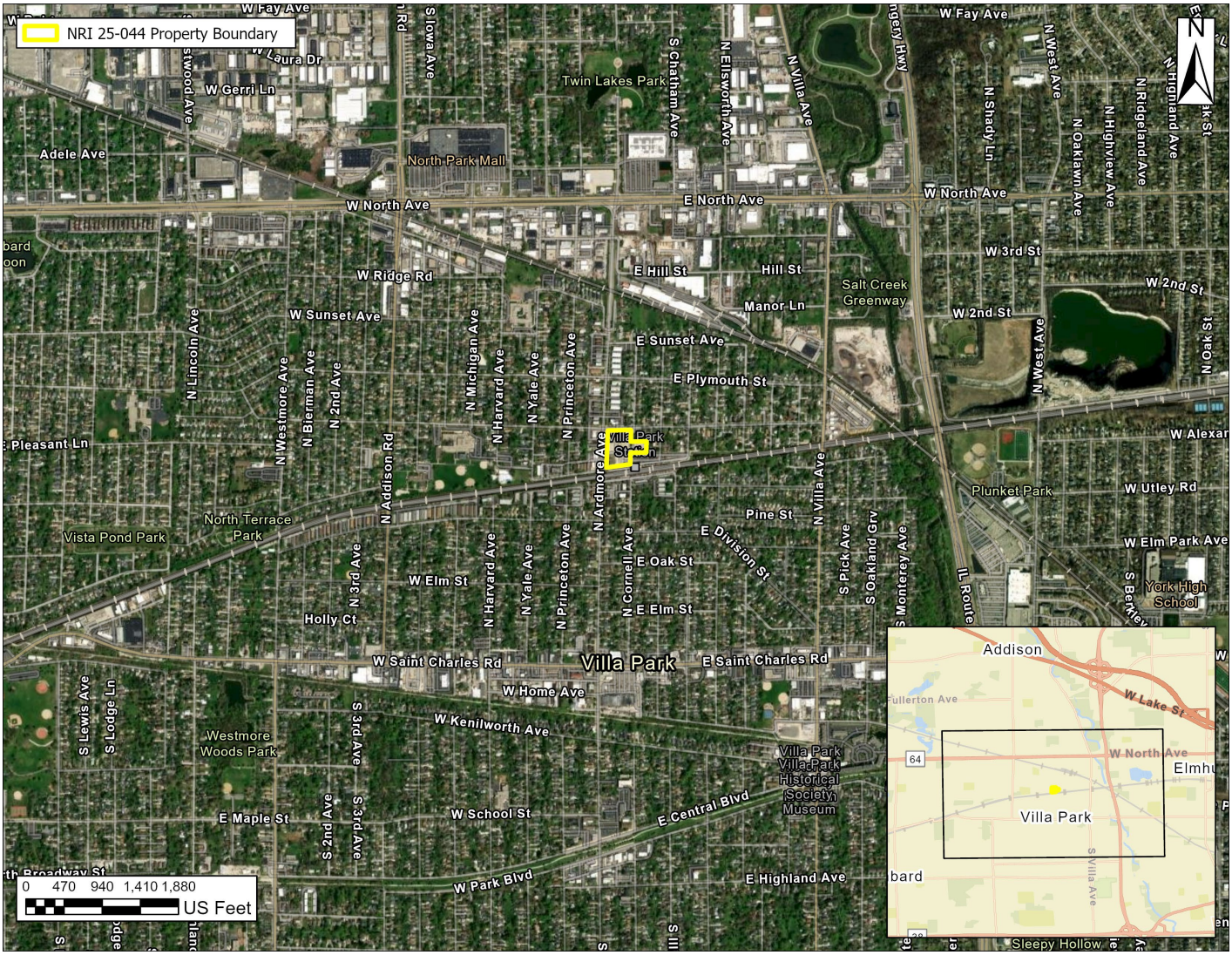


Figure 1: Plat Map with aerial background and parcel boundary

This site is in **York Township**. The public land survey system identifies the site in **Section 3 in Township 39 North and Range 11 East**. The site is **Parcel #06-03-122-001, 06-03-122-010, 06-03-122-012, 06-03-122-013, 06-03-122-014, 06-03-122-014, 06-03-122-015, 06-03-122-016, 06-03-122-017, 06-03-300-006, 06-03-123-006, 06-03-301-003** Block bounded by E. Vermont St., N. Beverly Ave., W. Terrace St. & N. Ardmore Ave. in **Villa Park, IL**.

LAND COVER IN THE EARLY 1800'S

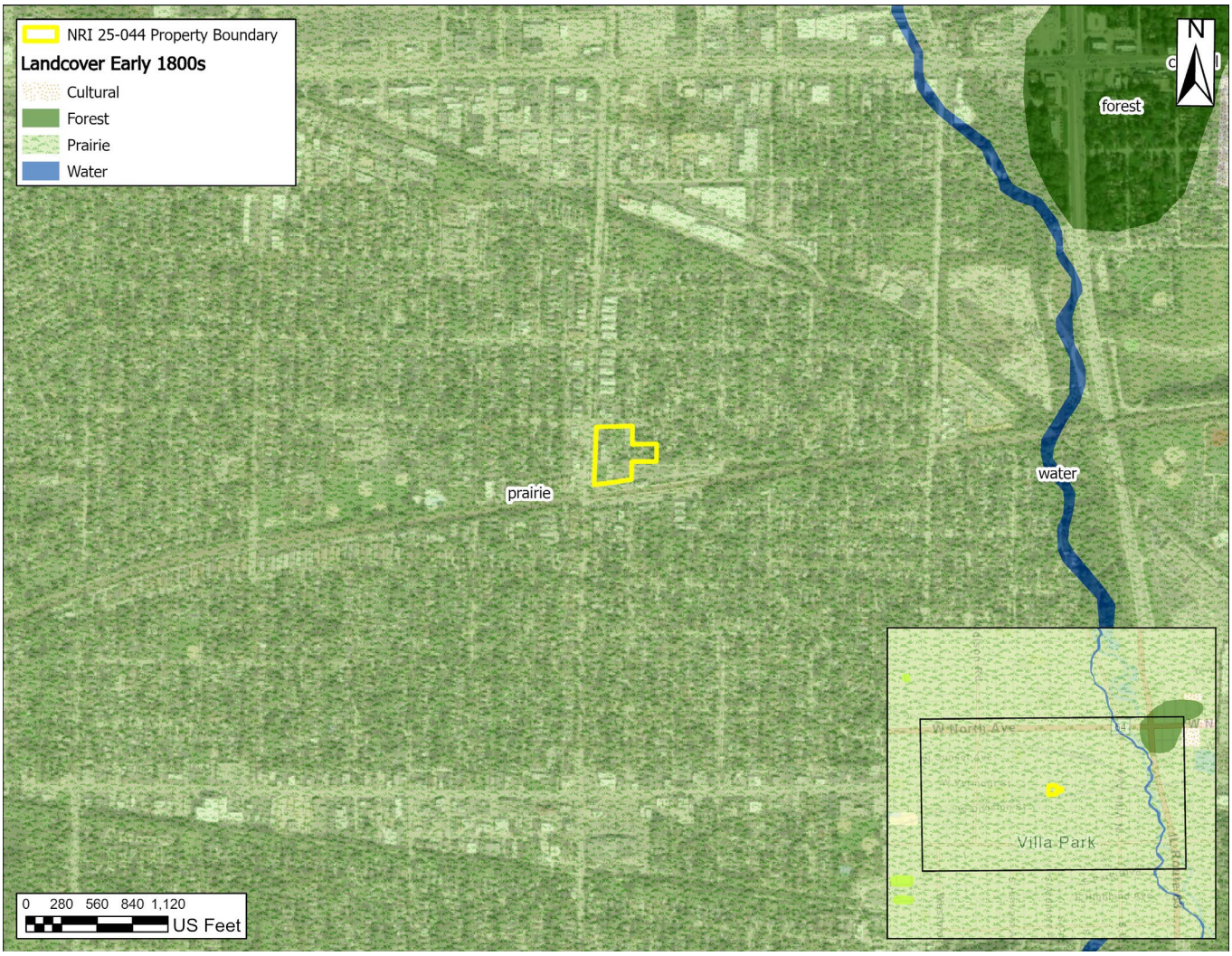


Figure 2: Land Cover of Illinois in the Early 1800's

The public land survey system represents one of the earliest detailed maps for Illinois. The surveys began in 1804 and were largely completed by 1843. The surveyors recorded the land cover and natural resource areas as they worked across the state. These plat maps and field notebooks contain a wealth of information about what the landscape was like before large numbers of settlers came into the state and began modifying the land.

Much of the landscape of Illinois in the early 1800's consisted of two different natural resource areas; prairie and forest. The forest category includes woodlands and savannas, typical of northeastern Illinois. Prairie and forest ecosystems are extremely valuable resources for many reasons. These areas:

- provide wildlife habitat and support biodiversity
- provide areas for recreational opportunities
- improve soil health and reduce soil loss
- improve air and water quality

The original 42 categories of natural resource areas were later simplified to 12 categories; barrens, bottomland, cultural (farms), forest, marsh, other wetlands, prairie, slough, swamp, special geographic features, wet prairie, and water. The maps do not represent exact site conditions, but represent the observations of individual surveyors as they crossed through the area.

This site is recorded as Prairie land cover on the early 1800's map. The Kane-DuPage Soil & Water Conservation District recommends preserving as much of the natural character of the site as possible, using native plants for landscaping, and removing and controlling invasive species.

NATIONAL WETLAND INVENTORY (NWI)

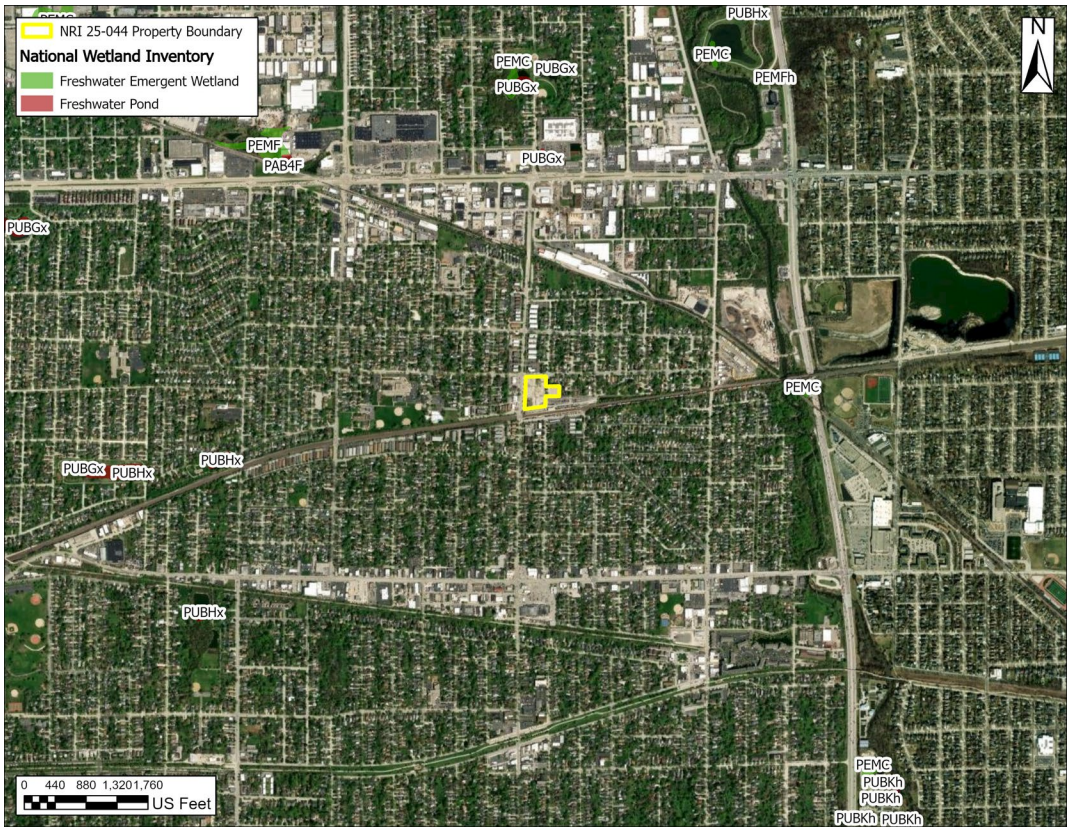


Figure 3: National Wetland Inventory (NWI) Map

The National Wetland Inventory (NWI), conducted by the U.S. Fish and Wildlife Service, identifies significant wetlands throughout the country. All U.S. federal agencies define wetlands as follows, “Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas.” Other common wetlands located in this part of Illinois are fens, wet meadows, seasonally saturated soils, and farmed wetlands.

Wetlands are protected and regulated by federal, state, and local laws, without regard to size. Wetlands are valuable, productive, and diverse ecological systems and provide multiple benefits, including:

- controlling flooding by slowing the release of excess water downstream or through the soil,
- cleansing water by filtering out sediment and pollutants,
- functioning as recharge areas for groundwater,
- providing essential breeding, rearing, and feeding habitat for many species of wildlife.

A review of the National Wetland Inventory indicates that there are no NWI wetlands on this site. Although the NWI is very thorough, it is not a complete inventory of all possible wetlands. Other regulated wetlands may be present.

The KDSWCD recommends contacting the U.S. Army Corps of Engineers and the DuPage County Stormwater Management Department before commencing any construction activities that may impact wet areas or floodplains. Please see the information on Regulatory Agencies (page 26) for wetland regulation information.

DUPAGE COUNTY WETLANDS

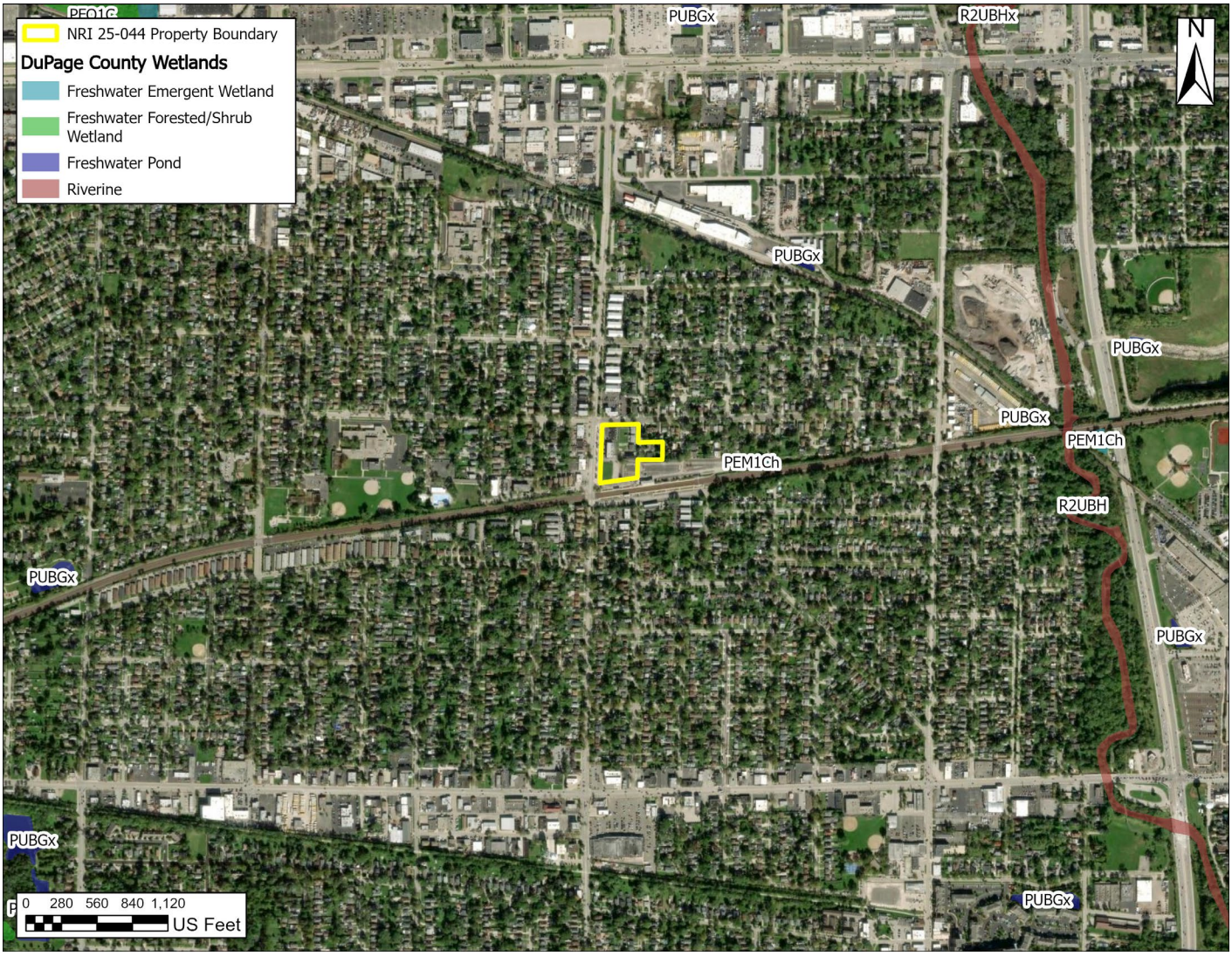


Figure 4: DuPage County Wetland Map

Completed in 2014 and updated periodically, the DuPage County Wetland Initiative was a cooperative effort between DuPage County and the U.S. Environmental Protection Agency to identify the location and quality of the wetlands of DuPage County and to develop wetland protection strategies. This initiative was developed to provide improved awareness of the locations, functions, and values of wetlands and other waters of the United States. The information can be used by federal, state, and local government to aid in zoning, permitting, and land acquisition decisions. In addition, the information can provide data to agencies, landowners, and private citizens interested in restoration or protection of aquatic sites and resources.

For more detailed information regarding wetlands in DuPage County, please refer to the information at:

https://www.dupagecounty.gov/government/departments/stormwater_management/stormwater_permitting/special_management_areas/

A review of the DuPage County Wetlands Map revealed that no wetlands have been identified on this site.

FLOODPLAINS

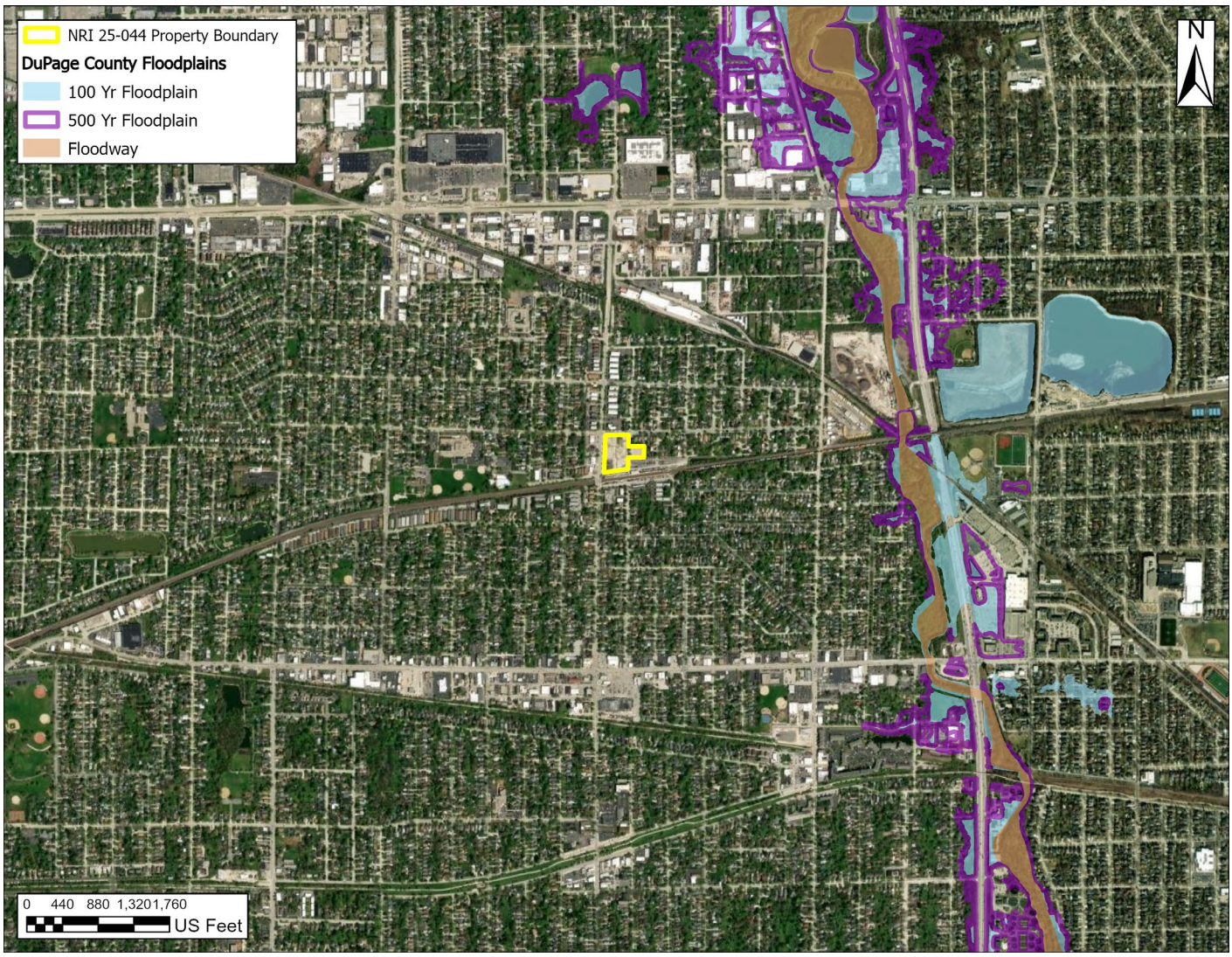


Figure 5: Floodplain map - Federal Emergency Management Agency (FEMA)

Undeveloped floodplains provide many natural resources and functions of considerable economic, social, and environmental value. Floodplains often contain wetlands and other important ecological areas as part of a total functioning system that impacts directly on the quality of the local environment.

Here are a few of the benefits and functions of floodplains:

- natural flood storage and erosion control
- water quality maintenance
- groundwater recharge
- nutrient filtration
- biological productivity/wildlife habitat
- recreational opportunities/aesthetic value

Also, development in a floodplain has a hazardous risk of damage by high flood waters and stream overflow. For this reason, floodplains are generally unsuited to most development and structures.

According to the FEMA Flood Insurance Rate Map, none of this site is within the boundaries of a 100-year floodplain. Any development in the floodplain, other than restoration efforts, is generally unsuited and hazardous and will impede the beneficial functions of the floodplain.

Please see the information on Regulatory Agencies (page 26) for information regarding floodplain regulations.

WATERSHEDS AND STREAMS

Watersheds are areas of land that eventually drain into a river or stream. Everyone lives in a watershed, no matter if a river or stream is nearby. Watersheds may be named according to its major river or stream. Watersheds, such as the Mississippi River watershed, may be extremely large, encompassing multiple states. Watersheds may also be subdivided into smaller units, such as subwatersheds. Some very small watersheds may not contain a named stream. However, the water that drains from that watershed eventually reaches a stream or river.
Watersheds in the United States are delineated by the U.S. Geological Survey (USGS) using a nationwide system based on surface hydrologic features. Examples of these surface hydrologic features include discharge flow, substratum size, stream width, and depth. This USGS system divides the country into 22 regions (2-digit), 245 subregions (4-digit), 405 basins (6-digit), nearly 2,400 subbasins (8-digit), roughly 19,000 watersheds (10-digit), and approximately 105,000 subwatersheds (12-digit). The USGS uses this system to assign each hydrologic area with a hierarchical Hydrologic Unit code (HUC), which consists of 2 additional digits for each level within the hydrologic unit system.

A complete list of Hydrologic Unit codes, descriptions, names, and drainage areas can be found in the United States Geological Survey Water-Supply Paper 2294, entitled "Hydrologic Unit Maps".

Common Watershed Goals:
- Protect and restore natural resources
- Improve water quality
- Reduce flood damage
- Enhance and restore stream health
- Guide new developments to benefit watershed goals
- Preserve and develop green infrastructure
- Enhance education and stewardship

In DuPage County, many watershed plans have already been developed. Please follow the link below to the DuPage County Stormwater Management Watershed Plans.
https://www.dupagecounty.gov/government/departments/stormwater_management/floodplain_mapping/watershed_planning_and_modeling.php

Rivers and Streams are necessary components of successfully functioning ecosystems. It is important to protect the beneficial functions and integrity of our local streams and rivers. Development near stream systems has the potential to increase flooding, especially in urban areas where there is a lot of impervious surfaces and a greater amount of stormwater runoff. Pollution is also an issue for stream systems in urban and rural areas. It is rare for any surface waters to be impacted by only one source of pollution. With few exceptions, every land-use activity is a potential source of nonpoint source water pollution.
The Illinois Environmental Protection Agency (IEPA) provides the following in regard to nonpoint source pollution, “Nonpoint source pollution (NPS) occurs when runoff from rain and snowmelt carries pollutants into waterways such as rivers, streams, lakes, wetlands, and even groundwater. Examples of or sources of NPS pollution in Illinois include runoff from farm fields, livestock facilities, construction sites, lawns and gardens, city streets and parking lots, surface coal mines, and forestry. The major sources of NPS pollution in Illinois are agriculture, urban runoff, and habitat modification.”

Nutrient management is of vital importance to the health of our rivers and streams. Nutrient load in our local streams and rivers has contributed to the Gulf of Mexico hypoxia, or a “dead zone” located where the Mississippi River meets the Gulf of Mexico. This dead zone has little to no biological activity. Yearly averages indicate the dead zone to be greater than 5,000 square miles in size. Illinois was required and has introduced a plan to reduce nutrient loss from point source pollution sources, such as wastewater treatment plants and industrial wastewater, as well as nonpoint pollution sources.

Read Illinois’s Plan for reducing nutrient loss here:
https://epa.illinois.gov/topics/water-quality/watershed-management/excess-nutrients/nutrient-loss-reduction-strategy.html

WATERSHEDS AND SUBWATERSHEDS

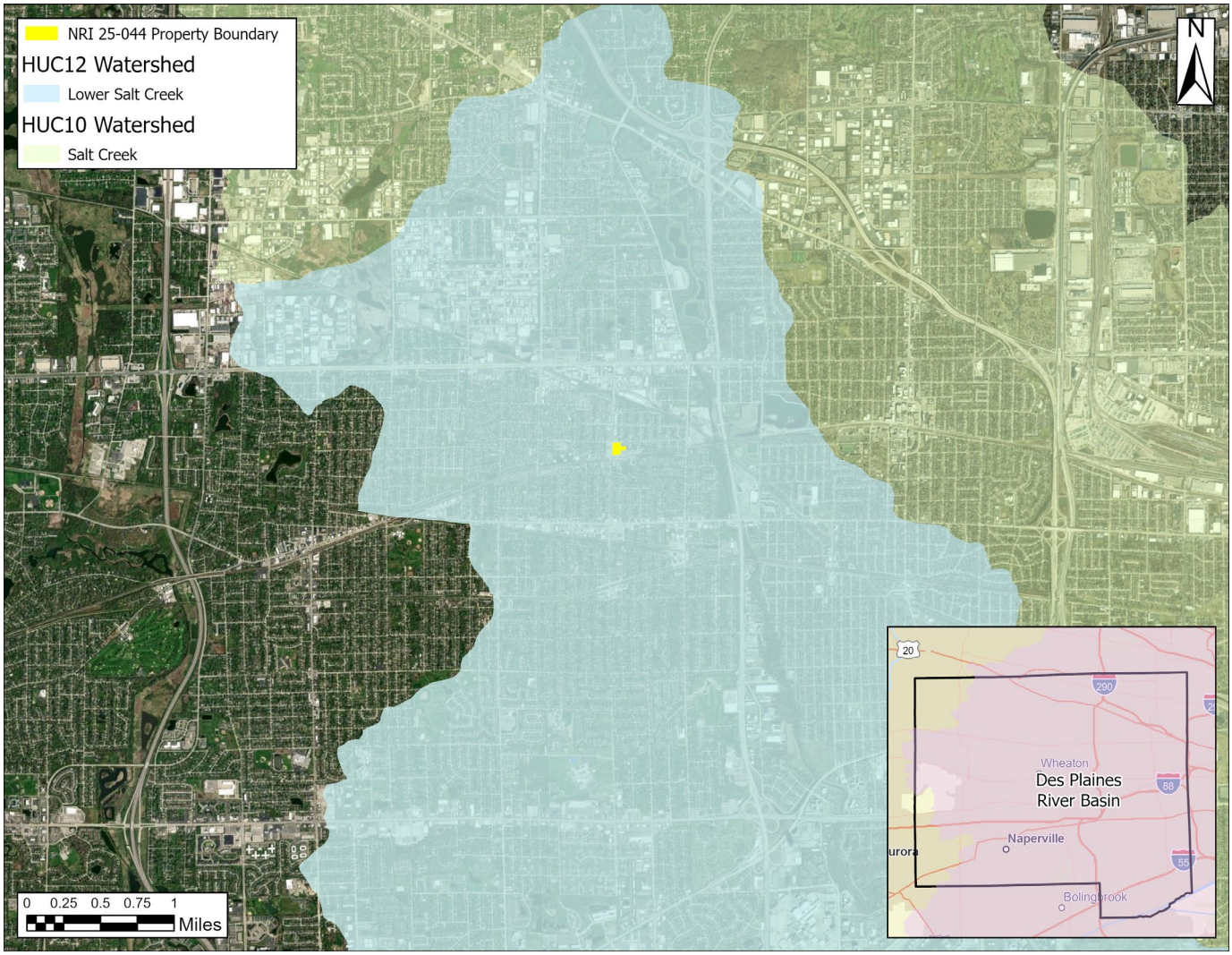


Figure 6: Watersheds and Subwatersheds

DuPage County has been divided into two major watershed subbasins by federal and state agencies, based upon the drainage area of local rivers: the Des Plaines River Subbasin, that covers a majority of DuPage County, and the Lower Fox River Subbasin, that occupies the western portion of the county. These subbasins are part of the Illinois River watershed and part of the greater Mississippi River watershed. Within DuPage County, the Des Plaines River Subbasin is divided into the Willow Creek-Des Plaines River Watershed; the Salt Creek Watershed; the DuPage River Watershed; and the Chicago Sanitary and Ship Canal-Des Watershed. The portion of the Lower Fox River Subbasin in DuPage County is further divided into the Ferson Creek-Fox River Watershed. These watersheds are then divided further into smaller local subwatersheds for planning.

Local watershed management planning is an important effort for the protection of local water resources and can involve watershed organizations, citizens, communities, municipalities, as well as state, local, tribal and/or federal environmental agencies. Water quality is a direct reflection of its watershed.

The map above indicates that 100 percent of this site is located within the boundaries of subwatershed HUC12-071200040404 Lower Salt Creek of the HUC10-0712000404 Salt Creek watershed.

AQUIFER SENSITIVITY

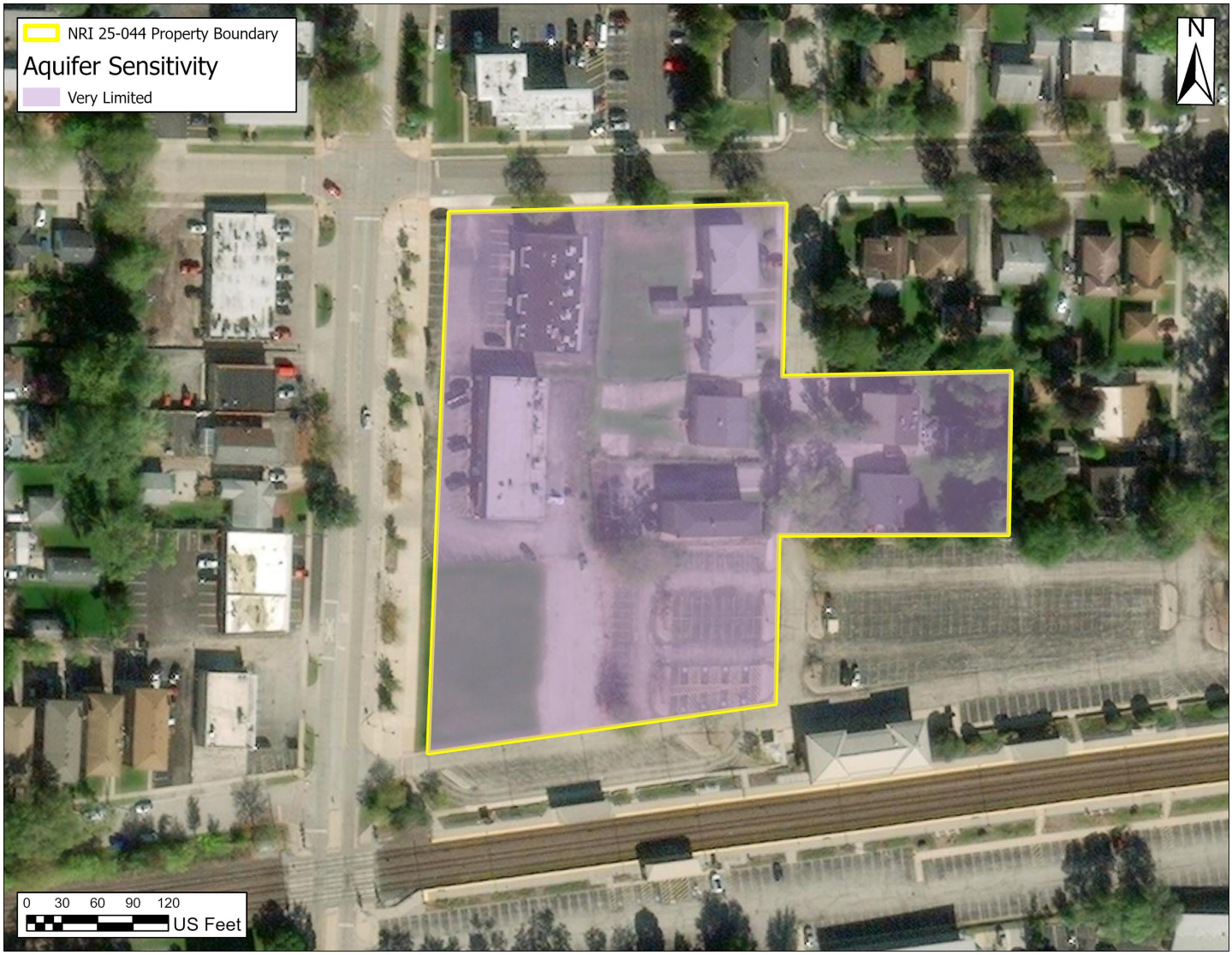


Figure 7: Aquifer sensitivity to contamination map

The U.S. Environmental Protection Agency defines aquifer sensitivity/contamination potential as "a measure of the ease with which a contaminant applied on or near the land surface can migrate to an aquifer." Aquifers function as a storage area for groundwater recharge, which makes them a reliable source of fresh water. Groundwater from aquifers is a valuable source of drinking water when it remains uncontaminated.

According to the Illinois State Geological Survey, this site lies completely or partially within a zone rated as Very Limited with respect to potential for contamination from spilled or applied substances to the soil surface.

Contact the KDSWCD for references regarding application of chemicals and best management practices to reduce the risk of aquifer contamination from this site.

TOPOGRAPHY AND OVERLAND FLOW

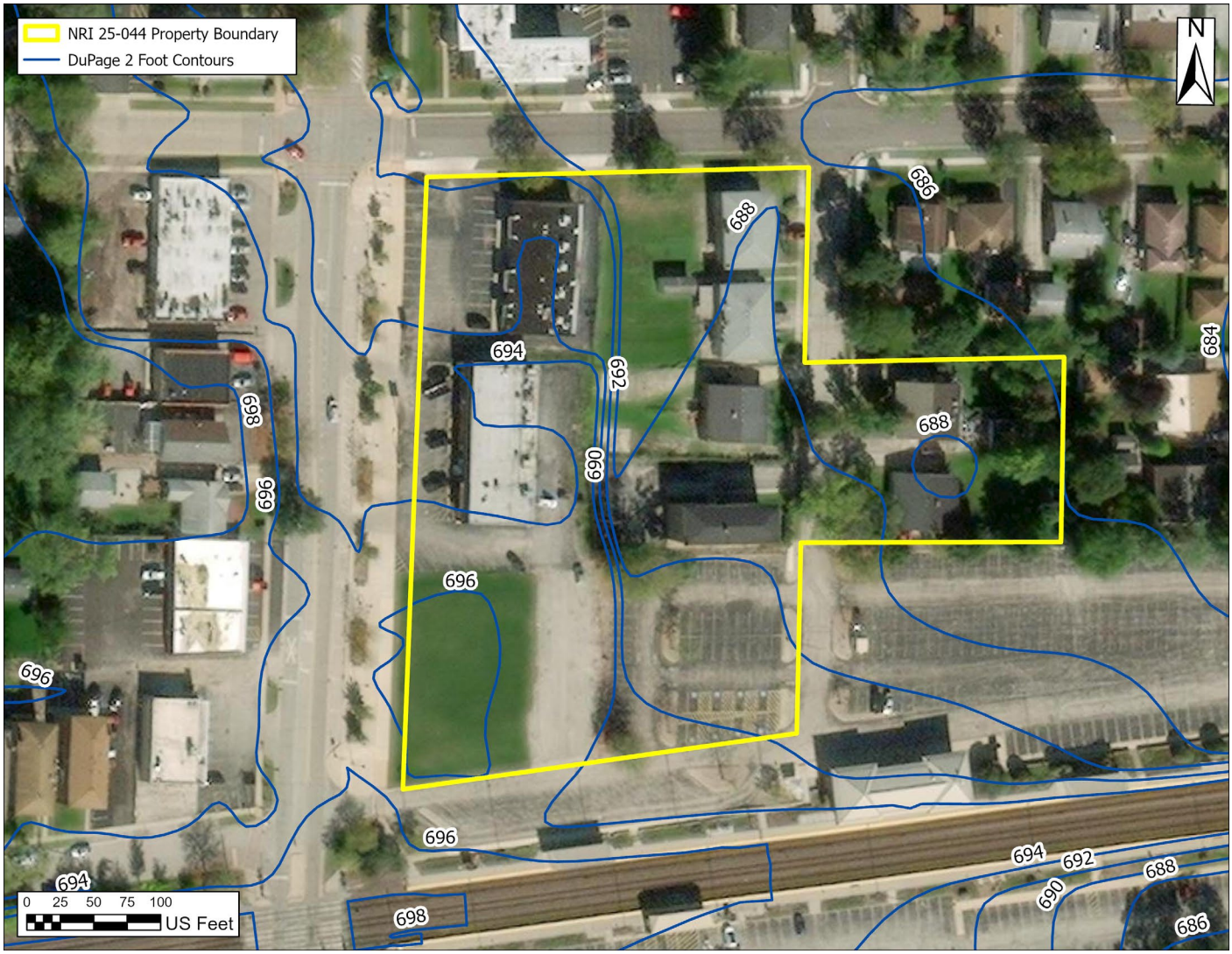


Figure 8: Topographic map showing contour lines

Topographic maps (contour maps) give information on the elevation of the land, which is important to determine slope steepness, natural water flow paths, and watershed information. The natural water flow path can determine where water leaves a property and where it may impact surrounding natural resources. Slope, along with soil erodibility factors, affect the potential of soil erosion on a site. Contour maps can also help determine the areas of potential flooding. It is important to consider the direction of water flow and erosion potential on all construction sites. Areas where water leaves the site should be monitored for sediment and other pollutants, which could contaminate downstream waters.

The map above shows contour lines with 2 feet elevation distance between each line. The high point of this property is in the Southwestern portion of the site at an elevation of approximately 696 feet above sea level. The property generally drains to the East via overland flow. The lowest elevation on the property is approximately 686 feet above sea level.

Please Note: This site's actual topography does not match the map. The site has been materially altered after the topological map information was gathered and produced.

STORMWATER MANAGEMENT

Managing stormwater and stormwater runoff is critical for all development. Stormwater runoff from a site usually increases as a result of soil compaction, more impervious surfaces, loss of vegetation, and soil degradation during construction activities. Increased runoff causes downstream flooding, soil erosion, sedimentation, and pollution of surface waters. The KDSWCD recommends the use of onsite stormwater management strategies whenever possible. These strategies include: stormwater retention and detention basins; bioswales, raingardens, and the use of natural depressions and vegetated swales; deep-rooted native plants; permeable pavers or permeable asphalt. Combinations of these and other practices may be able to retain stormwater onsite. The Illinois Environmental Protection Agency (IEPA) now recommends that stormwater pollution prevention plans include post-construction stormwater management to keep as much stormwater on the site, as possible.

Site assessment with soil testing should help to determine what stormwater management practices are best for your site. Insufficient stormwater management has the potential to cause or aggravate flooding conditions on surrounding properties, or elsewhere in the watershed. Please refer to the DuPage County Stormwater Ordinance for stormwater requirements and minimum standards.

https://www.dupagecounty.gov/government/departments/stormwater_management/stormwater_permitting/stormwater_ordinance/

SOIL EROSION

Soil erosion is the degradation of soil, mostly caused by the force of rain and the movement of water detaching soil particles and carrying the soil off the site. Factors that affect soil erosion are the slope of the land, the inherent properties of the soil, and the cover (or lack of cover) on the soil surface. Extra care must be taken to prevent or reduce soil erosion on construction sites containing highly erodible soils.

The potential for soil erosion during and after construction activities could have major impacts, both onsite and offsite. The erosion and resulting sedimentation may become a primary nonpoint source of water pollution. Eroded soil during the construction phase can create unsafe conditions on roadways, degrade water quality, and destroy aquatic ecosystems lower in the watershed. Soil erosion also increases the risk of flooding due to choking culverts, ditches, and storm sewers, and reduces the capacity of natural and man-made detention facilities.

Construction and development activities should include a soil erosion and sedimentation control plan. Erosion and sedimentation control measures include:

- Staging construction to minimize the number of disturbed areas present at the same time
- Keeping the ground covered, either by mulch or vegetation
- Keeping runoff rates minimal

Many construction sites are required to develop and follow a Stormwater Pollution Prevention Plan (SWPPP) in order to be in compliance with local, state, and federal laws regarding soil erosion and stormwater management. Soil erosion and sedimentation control plans, including maintenance responsibilities, should be clearly communicated to all contractors working on the site. Special care must be taken to protect any wetlands, streams, and other sensitive areas.

Please refer to the Illinois Urban Manual for erosion and sediment control information and technical guidance when creating erosion and sediment control plans. The practice standards and standard drawings from the Illinois Urban Manual represent the minimum standard in Illinois. Contact the DuPage County Stormwater Management Department for specific information on permits. Contact the KDSWCD for assistance in preparing a stormwater pollution prevention plan.

HIGHLY ERODIBLE LAND (HEL)

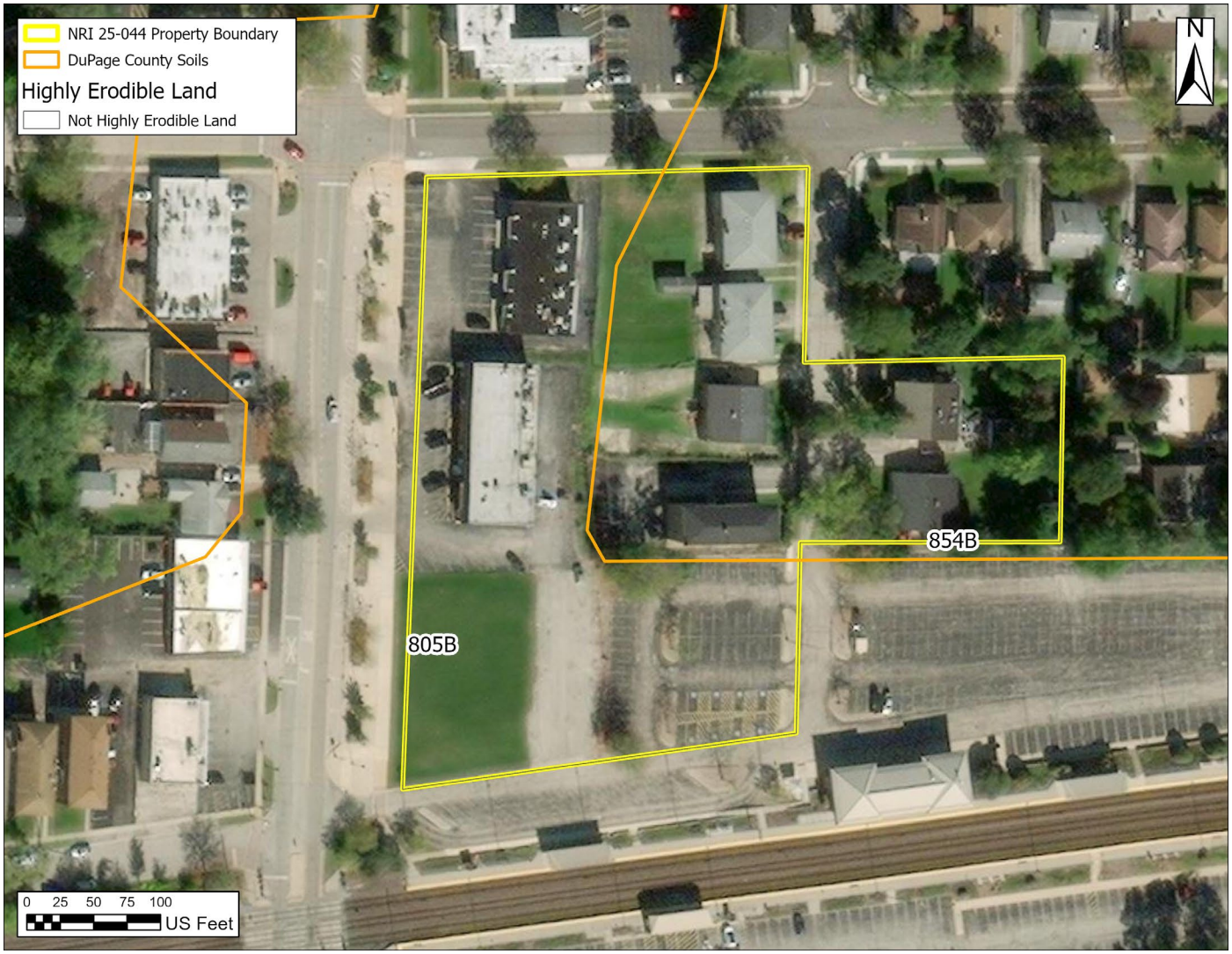


Figure 9: Highly Erodible Land map

Soils vary in their susceptibility to erosion. Highly erodible land (HEL) is land that can erode at excessive rates. Highly erodible land is generally sloping and contains soils that are susceptible to soil erosion by runoff and raindrop impact. The susceptibility to erosion and the highly erodible rating depends upon several factors and properties of the soil. Fine-textured soils high in clay have low erodibility values, because the soil particles are resistant to detachment. Coarse-textured soils, such as sandy soils also have low erodibility values because the water infiltrates and they have less runoff. Medium textured soils, such as loams, are moderately susceptible to detachment and they produce moderate runoff. Soils having a high silt content, like many soils in DuPage County, are the most erodible of all soils. They are easily detached and they tend to crust and produce large amounts and rates of runoff.

Other factors that affect the erodibility of soils include the force of the rainfall, the steepness and length of the slope of the land, and the amount of organic matter in the surface soil layer.

Highly Erodible Land (HEL) contains soils that have been determined by the USDA Natural Resources Conservation Service (NRCS) to be highly erodible. The HEL determination uses a formula involving the properties previously described, to determine the Soil Erodibility Index. Soils that have a Soil Erodibility Index above a certain value are considered highly erodible or potentially highly erodible. **Soils on this site are not considered Highly Erodible Land (HEL) or Potentially Highly Erodible Land (PHEL) by the NRCS.**

SOILS & SOIL INTERPRETATIONS

Soils are the foundation of life. Soil is a dynamic ecosystem comprised of living things: plants, animals, and microscopic organisms. Soil is also a substance composed of various minerals and organic matter, interfused with lots of pore spaces which help move and store air and water. Soils are formed over hundreds and thousands of years, taking about 500 years to form an inch of topsoil. Soil is formed by the influences of climate, organisms (plants and animals), topography, the material in which it is developing (parent material), and time. There are thousands of soil series in the world. In Illinois alone, there are over 600 different soil series. Each soil series is unique in its content and its behavior for a particular use.

The different soils across the U.S. have been mapped and identified by the USDA Natural Resources Conservation Service (NRCS) in a soil survey. The soil map of this area (Figure 11: Soil Survey) indicates different soil map units. Each soil map unit and corresponding symbol represent a phase of a soil series. Phases include slope, erosion, flooding frequency, etc. of each soil. Each soil and associated phase have strengths and limitations for a variety of land uses such as septic systems, buildings site development, local roads, and many other uses.

See the Soil Map Units Table in the Soil Survey section for the composition of soil map units of the site. See the Soil Interpretations section for the soil interpretations for the proposed use of the site.

How soil is managed as a resource can be either beneficial or detrimental for the environment, or for any other particular use. It is difficult to change the inherent properties of soil, such as the mineral composition or the amount of sand, silt, or clay within soil. However, it is easy to compact or erode soil to the extent that many soil functions, such as water storage, infiltration, rooting medium, carbon storage, and soil health could all become compromised or destroyed. Management techniques to protect the integrity and functions of soil include:

- limiting traffic on the site to reduce compaction of the soil surface
- keeping the soil covered as much as possible, with deep rooted grasses or with mulch or other erosion control practices
- disturbing only the areas necessary for the footprint of structures and reducing or eliminating mass grading of sites

Soils and Onsite Waste Disposal

Soils are often used for onsite waste disposal or underground septic systems to dispose of sewage, especially for individual homes that are not connected to a municipal sewage system. No interpretive rating is given in this report for on-site wastewater disposal (septic systems). The detail of the soil information in the soil survey is not precise enough to determine suitability for the small area required for a septic system.

A Certified Professional Soil Classifier, in cooperation with the county department of public health, must conduct a soil evaluation to determine the suitability of the parcel for on-site wastewater disposal (i.e., septic system), as required by the State of Illinois.

Soil Interpretation Ratings

The soil interpretation (limitation) ratings are used mainly for engineering designs for proposed uses, such as dwellings with or without basements, local streets and roads, small commercial buildings, etc. The ratings given are based on NRCS national criteria and are defined and used as follows:

Not Limited – This limitation rating indicates that the soil properties are generally favorable for the specified use and that any limitations are minor and easily overcome.

Somewhat Limited - This rating indicates that the soil properties and site features are unfavorable for the specified use, but that the limitations are moderate and can be overcome or minimized with special planning and design.

Very Limited - This indicates that one or more soil properties have severe limitations and are very unfavorable and difficult to overcome. A major increase in construction effort, special designs, or intensive maintenance is required. These costly measures may not be feasible for some soils that are rated as Very Limited.

Contact the KDSWCD for questions concerning soil and refer to the **Illinois Urban Manual** for best management practices for protecting soil.

SOIL SURVEY

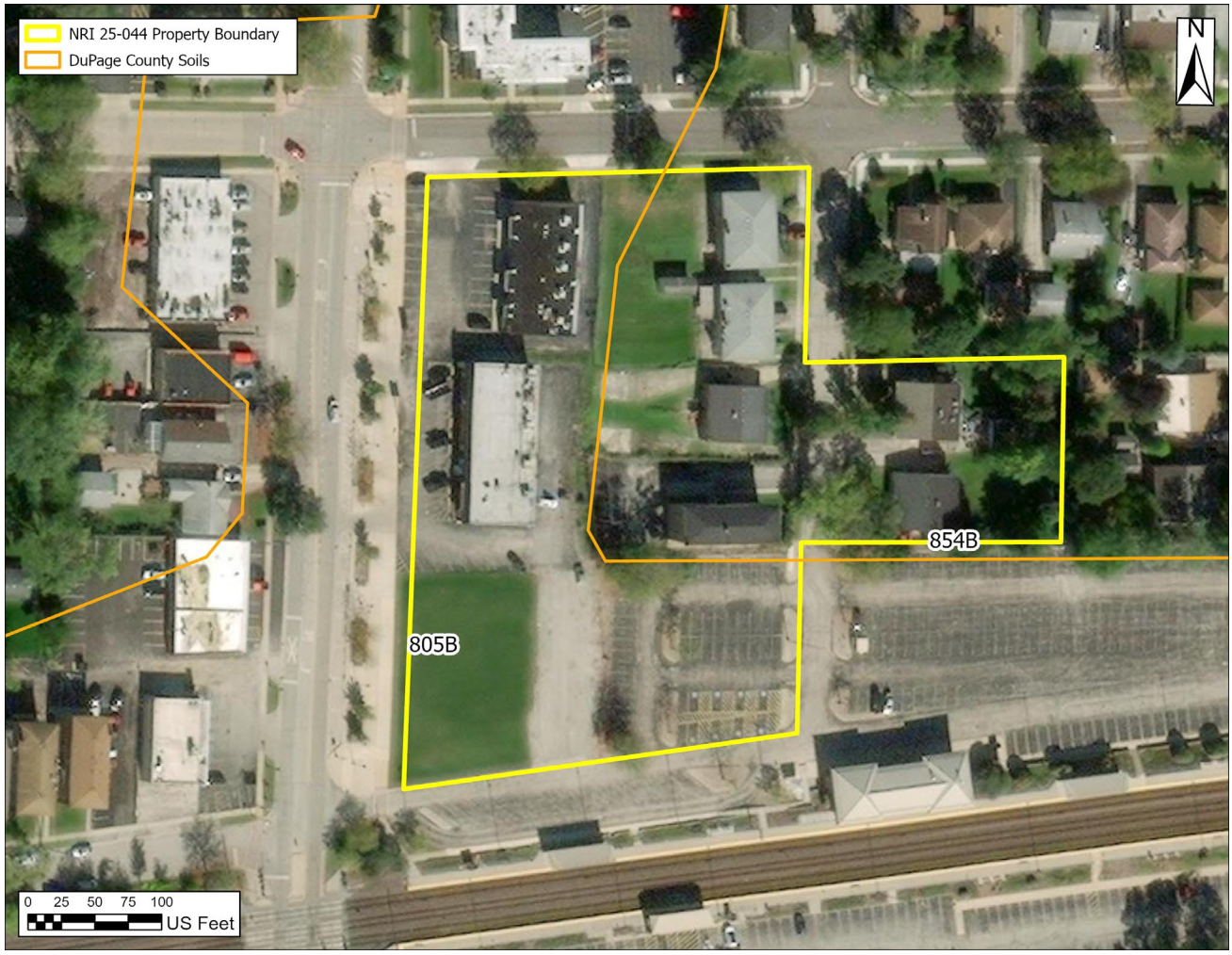


Figure 10: Soil Survey

The soil map unit symbol consists of a combination of numbers and letters which represent the interpretive phase of a soil series for an area of the landscape. Areas within the line of that symbol will have similar soil properties and interpretations.

Table 1: Soil Map Units

SOIL MAP UNIT SYMBOL	PERCENT OF PARCEL	ACRES
805B - Orthents	55.3%	2.0
854B - Markham	44.7%	1.5
	Total	3.5

All percentages and acreages are approximate.

The soil map in this report has been enlarged beyond the original scale. Enlargement of this map may cause misunderstanding of the accuracy and precision of the mapping. When enlarged, maps do not show the small areas of contrasting soil that could have been identified if the mapping was completed at a larger scale. The depicted soil boundaries and interpretations derived from the map units do not eliminate the need of onsite sampling, testing, and detailed study of specific sites for intensive uses. Thus, this map and its interpretations are intended for planning purposes only.

The KDSWCD suggests to contact a certified professional soil classifier to conduct an onsite investigation for point-specific soil information to determine the capabilities and the limitations of the soil for a specific use.

SOIL MAP UNIT DESCRIPTIONS

The map units delineated on the detailed soil map in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in the report, along with the map, can be used to determine the composition and properties of a unit.

A map unit delineation of a soil map represents an area dominated by one or more major kinds of soil or miscellaneous area. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. The scale of the maps limits the detail that can be shown. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils. These minor components are inclusions within the named map unit.

LIST OF MAP UNITS

805B	Orthents, clayey, undulating
854B	Markham-Ashkum-Beecher complex, 1 to 6 percent slopes

SOIL INTERPRETATIONS – Small Commercial Buildings

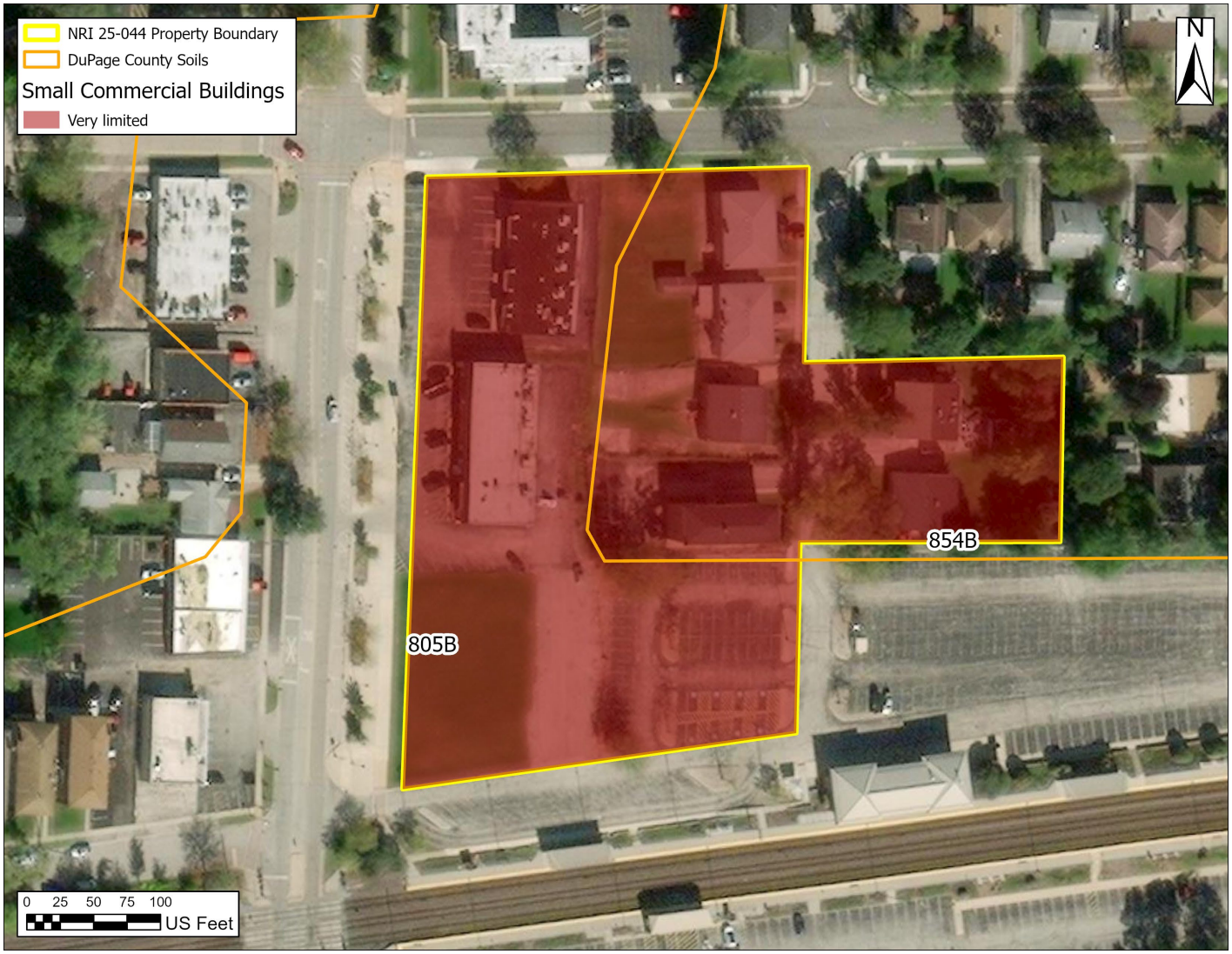


Figure 11: Soil Interpretations for Small Commercial Buildings

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at the depth of maximum frost penetration.

The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to water table, ponding, flooding, subsidence, linear extensibility, and compressibility. Compressibility is inferred from the Unified classification of the soil. The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock, hardness of bedrock, and the amount and size of rock fragments. **The high-water table is often a limiting factor in DuPage County.**

Areas not shaded represent NOT LIMITED, and good performance and very low maintenance can be expected. Yellow represents SOMEWHAT LIMITED, and fair performance and moderate maintenance can be expected. Red represents VERY LIMITED, and poor performance and high maintenance are to be expected.

See the preceding Soils Section for more information concerning soil limitations.

SOIL INTERPRETATIONS – Shallow Excavations

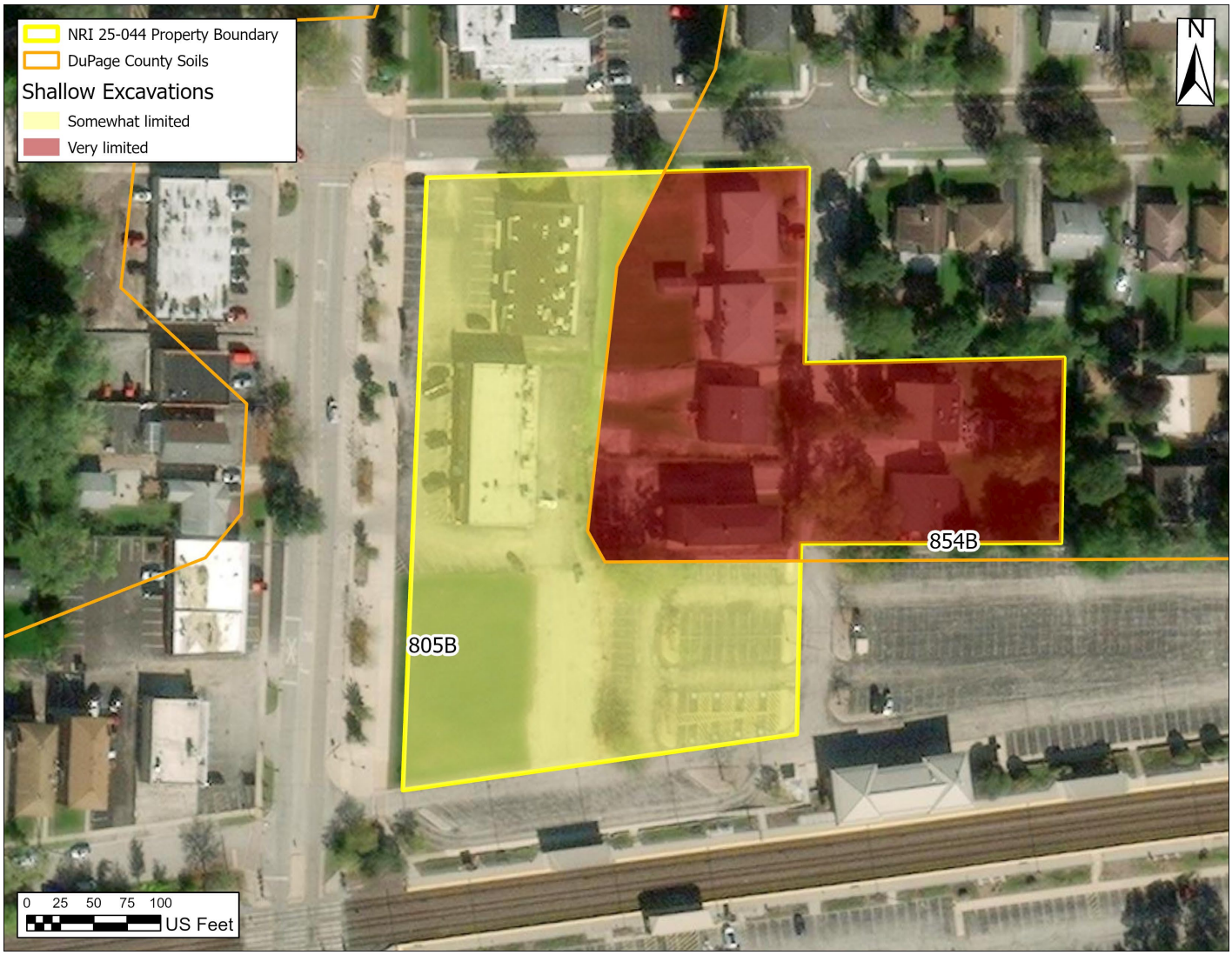


Figure 12: Soil Interpretations for Shallow Excavations

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock, hardness of bedrock, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to the seasonal high-water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing. **The high-water table is often a limiting factor in DuPage County.**

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See the preceding Soils Section for more information concerning soil limitations.

SOIL INTERPRETATIONS – Local Roads and Streets

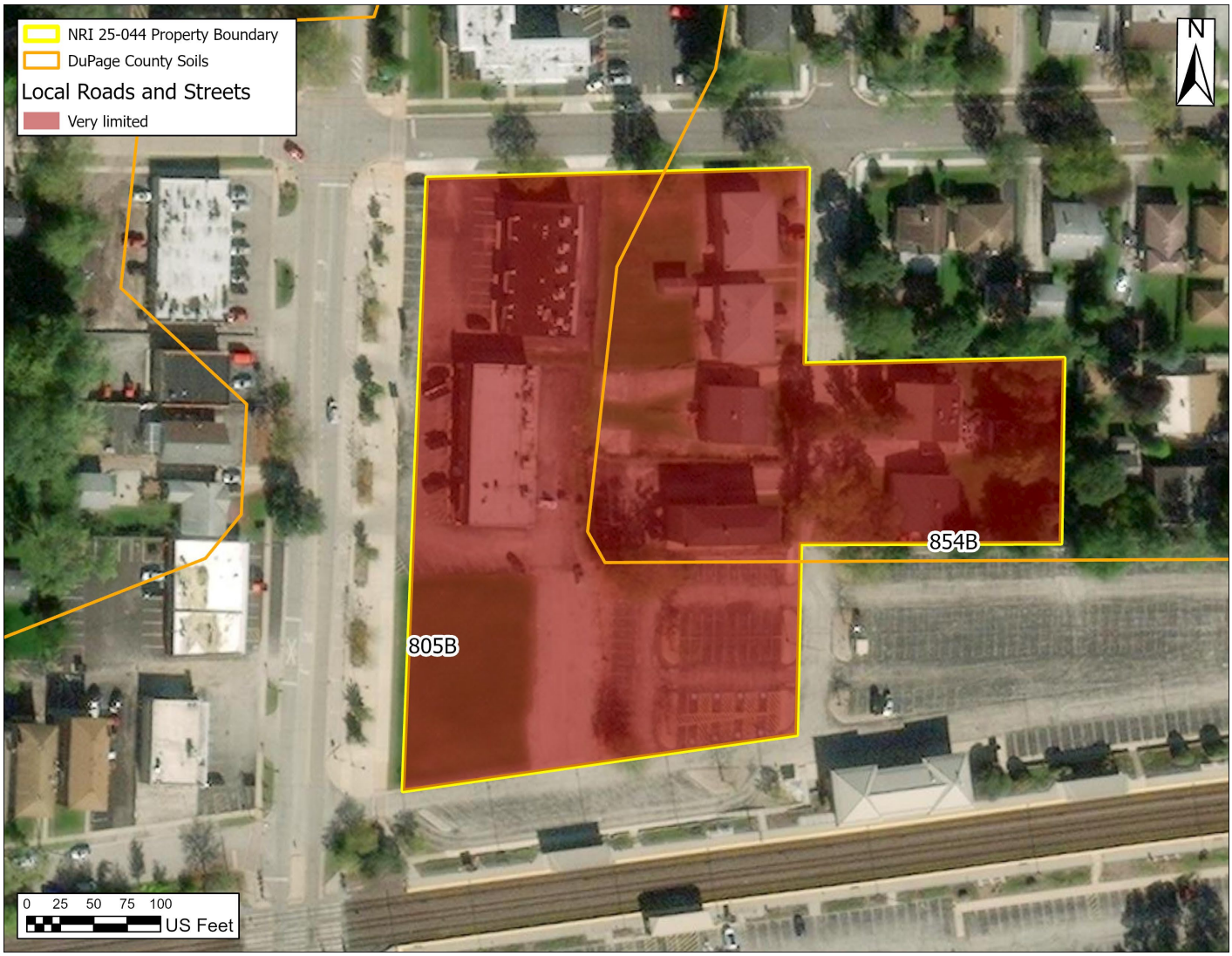

Figure 13: Soil Interpretations for Local Roads and Streets

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder.

The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a water table, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding. **The high-water table is often a limiting factor in DuPage County.**

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See the preceding **Soils Section** for more information concerning soil limitations.

SOIL INTERPRETATIONS – Lawns and Landscaping

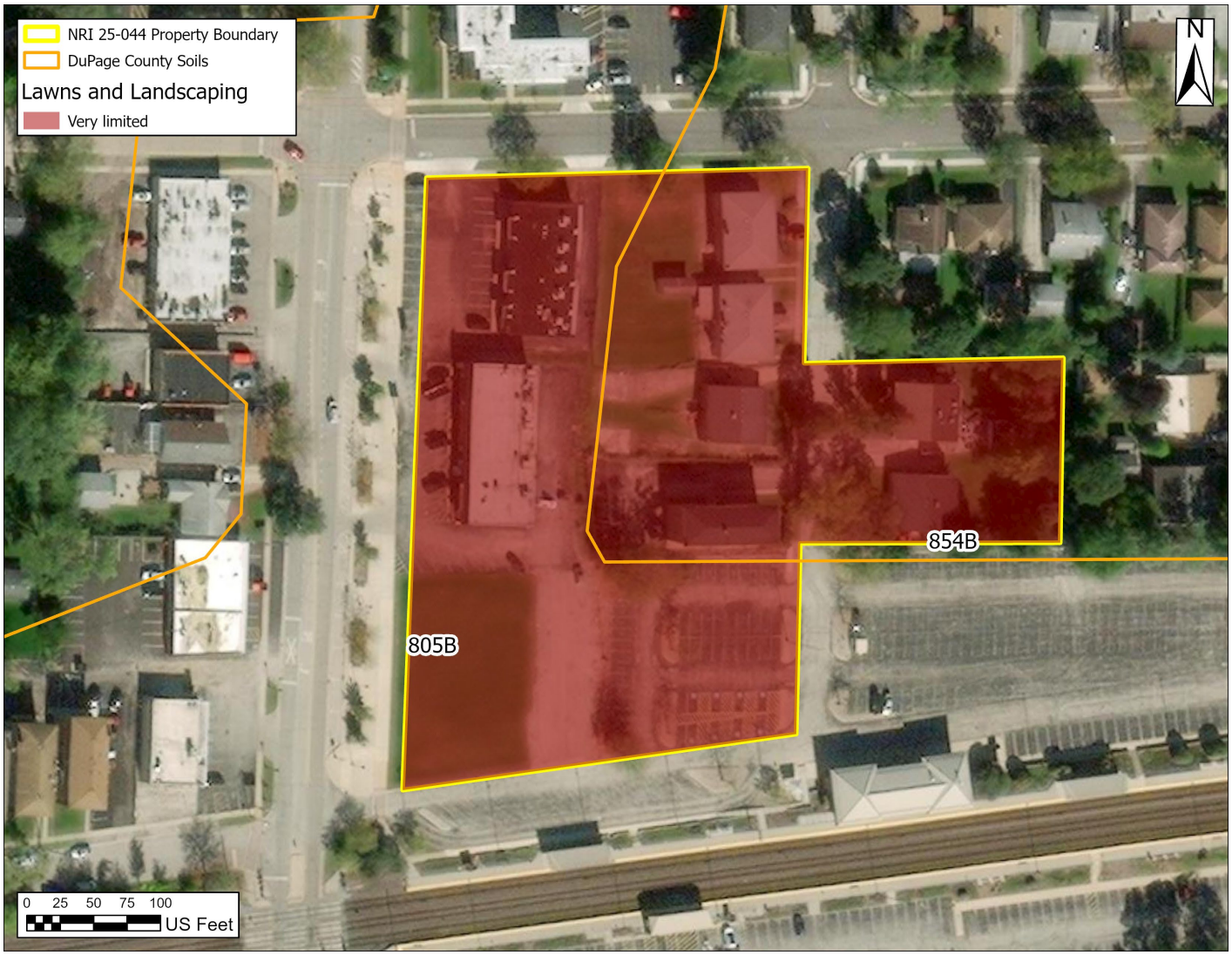

Figure 14: Soil Interpretations for Lawns and Landscaping

Lawns and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are pH (acidic or alkaline conditions); depth to a water table; ponding; depth to bedrock; the available water capacity in the upper 40 inches; and the content of calcium carbonate. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. **The high-water table is often a limiting factor in DuPage County.**

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See the preceding **Soils Section** for more information concerning soil limitations.

WATER TABLE

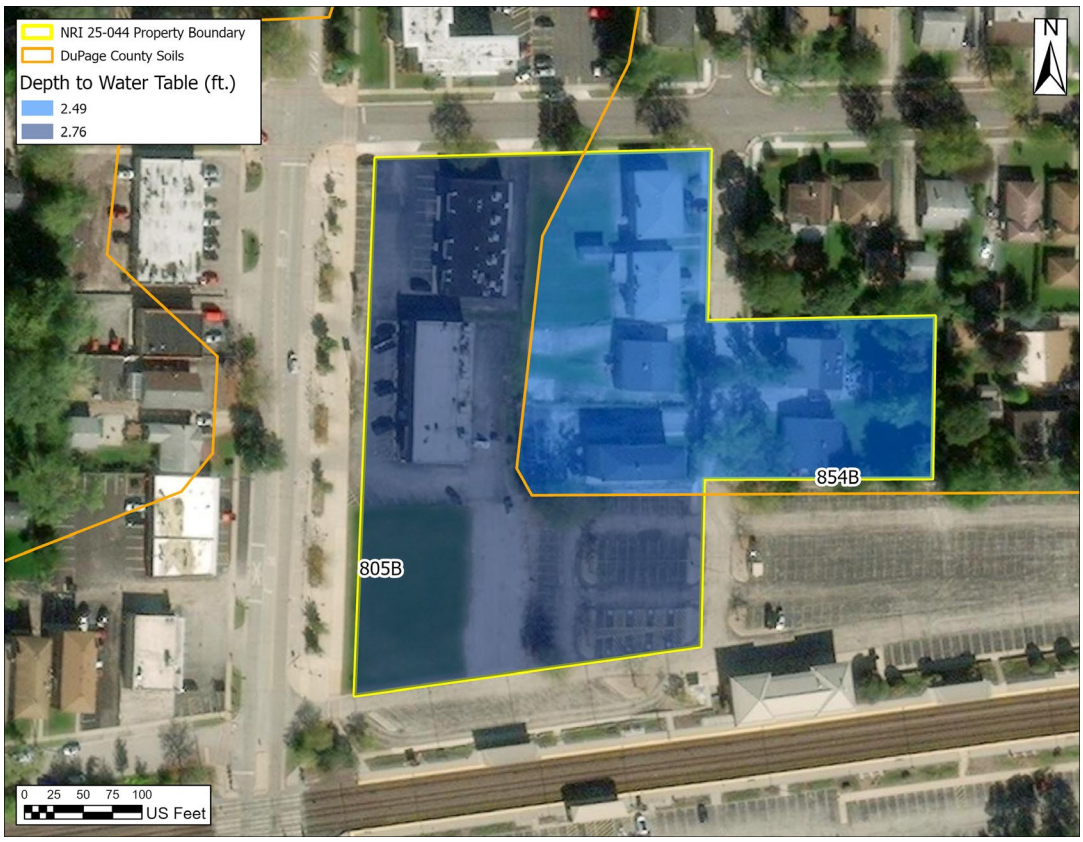

Figure 15: Map showing the depth to a seasonal high-water table

A seasonal high-water table, or the depth to a zone saturated with water in the soil during the wet season (typically spring through early summer), is present in most soils in DuPage County, as it is in much of Illinois. The relatively low relief and flat landscape of the region slows the dissipation of water from the soil. This saturated zone fluctuates throughout the year and is closer to the surface in the spring and drops to deeper levels during summer and fall. Soils that are lower on the landscape are generally wetter than those soils higher on the landscape or on more sloping landscape positions. Some soils, especially those in landscape depressions and low-lying areas, have a water table above the soil surface. Water that occurs above the soil surface is considered “ponded” water. Ponding is different from flooding, as the water in ponded areas comes from water rising from below the soil surface or from runoff from adjacent areas. Flooding comes from the overflow of water from rivers and streams.

The duration of the seasonal high-water table may have been altered by artificial drainage systems, especially those areas in cropland or former cropland. Even when soils are artificially drained, they will likely retain wet characteristics and the wetness will be difficult to eliminate entirely. However, artificial drainage may shorten the duration of the seasonal high-water table.

The wetness from the seasonal high-water table is a limiting property of the soil for many uses, especially homesites with or without basements, septic absorption fields, commercial buildings, and roads and streets. Most sites that are zoned for construction will require improved drainage, sump pumps, foundation drains, and other management practices to reduce the wetness. Any change to the natural drainage of the site has the potential to create flooding issues downstream from the site, so use caution in installing drainage systems.

The Soil Survey indicates a seasonal high-water table at a depth of 2.49 to 2.76 feet of the soil surface during the spring and early summer in most years, on the wettest soils of the site.

HYDRIC SOILS

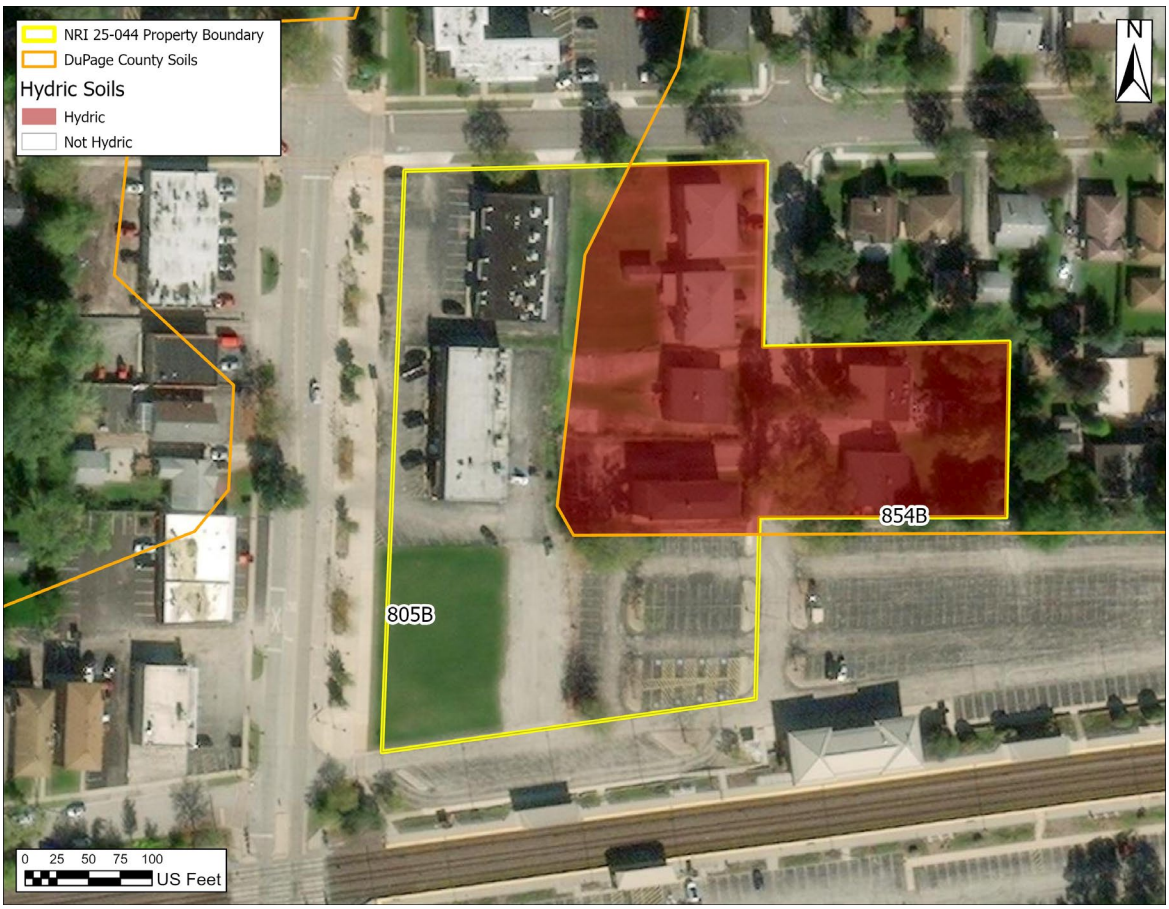

Figure 16: Hydric Soils map

Hydric Soils are wet soils that have a water table near the surface or above the surface, mostly in the spring and summer. The wetness is often a result of being on a lower position on the landscape. Many areas of hydric soils have been altered by artificial drainage systems. Even though they may have artificial drainage, they are still considered to meet the definition of a hydric soil. Although not all hydric soils are considered wetlands, hydric soils are a component of wetlands.

Even when hydric soils are artificially drained, they will likely retain wet characteristics and the wetness will be difficult to eliminate entirely. However, artificial drainage may shorten the duration of the seasonal high-water table. Most sites will require improved drainage, sump pumps, and other management practices to reduce the wetness. Any change to the natural drainage of the site has the potential to create flooding issues on and adjacent to the site, so use caution in installing drainage systems.

Some hydric soils are dominated by organic material (peat or muck) instead of mineral soil material and are not suitable construction sites, because of the low strength of the organic deposits. **Organic soils are extremely difficult to modify for other uses.**

Hydric inclusions are small areas (inclusions) of hydric soils in the lower positions of a landscape dominated by higher, nonhydric soils and these inclusions are not identified on the soil map, given the map scale. However, hydric inclusions may still have a significant impact on your site.

Hydric Soils or Soils with Hydric Inclusions are on this site. A certified wetland determination may be needed prior to any earth disturbing activities. The KDSWCD recommends contacting the proper regulatory agencies (page 26).

REGULATORY INFORMATION

Wetlands, Rivers, Streams, and Other Waters: The laws of the United States, the State of Illinois, and local governments assign certain agencies specific and different regulatory roles to protect the waters within their jurisdictional boundaries. These roles include protection of navigation channels and harbors, protection against floodway encroachment, maintenance and enhancement of water quality, protection of fish and wildlife habitat, and protection of recreational resources. Unregulated use of waters could permanently destroy or alter the character of these valuable resources and adversely impact the public. Contact the proper regulatory authorities when planning any work associated with floodplains, wetlands, or other waters so that proper consideration and approval can be obtained.

Wetland and/or Floodplain Permit: Anyone proposing to dredge, fill, riprap, or otherwise alter the banks or beds of a floodplain or floodway; or construct, operate, or maintain any dock, pier, wharf, sluice, dam, piling, wall, fence, utility of a lake, stream, or river subject to federal, state, or local regulatory jurisdiction should apply for agency approvals.

Construction Permit: Anyone disturbing an acre or more of land during proposed construction activities should apply for the NPDES General Construction Permit ILR10. Building and stormwater permits should also be obtained locally from municipal government and/or DuPage County.

REGULATORY AGENCIES

Wetlands, Floodplains, Streams, & Other Waters:
U.S. Army Corps of Engineers, Chicago District,
111 North Canal Street
Chicago, IL 60606-7206
(312) 353-6400
http://www.lrc.usace.army.mil/

DuPage County Stormwater Management Department
Jack T. Knuepfer Administration Building
421 N. County Farm Road
Wheaton, IL 60187
(630) 407-6700
https://www.dupagecounty.gov/government/departments/stormwater_management/

Illinois Department of Natural Resources, Office of Water Resources
2050 W. Stearns Road
Bartlett, IL 60103
(847)608-3100
https://dnr.illinois.gov/waterresources/programs.html

NPDES General Construction Permit ILR10
Illinois Environmental Protection Agency, Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794
(217)782-0610
https://www2.illinois.gov/epa/topics/forms/water-forms/Pages/default.aspx

The KDSWCD recommends early coordination with the regulatory agencies BEFORE finalizing work plans. This allows the agencies to recommend measures to mitigate or compensate for adverse impacts. Also, the agency can make possible environmental enhancement provisions early in the project planning stage. This could reduce time required to process necessary approvals. Please be advised that failure to coordinate with regulatory agencies could result in project shut down, fines and/or imprisonment.

CONTACTS

STATE AGENCIES

Illinois Department of Natural Resources
1 Natural Resources Way
Springfield, Illinois 62702-1271
(217)782-6302

Illinois Department of Transportation
2300 South Dirksen Parkway
Schaumburg, Illinois 62764-0001
(217)782-7820/(800)452-4368

Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
(217)782-3397

Illinois Natural History Survey
1816 South Oak Street MC652
Champaign, Illinois 61820
(217)333-6880

COUNTY / LOCAL OFFICES

DuPage County Government Center
Jack T. Knuepfer Administration Building
421 N. County Farm Road
Wheaton, IL 60187
630-407-6500

DuPage County Building& Zoning Department
(630) 407-6700

Department of Stormwater Management
(630) 407-6700

Forest Preserve District of DuPage County
3S580 Naperville Road
Wheaton, IL 60189
(630) 933-7200

DuPage County Health Department
111 N County Farm Road
Wheaton, IL 60187
Phone: 630-682-7400

Kane-DuPage Soil and Water Conservation District
2315 Dean Street Suite 100
St. Charles, Illinois 60175
(630) 584-7960 ext. 3

FEDERAL AGENCIES

U. S. Army Corps of Engineers
Regulatory Branch
231 S LaSalle Street, Suite 1500
Chicago, Illinois 60604
(312)846-5330
http://www.usace.army.mil

U.S. Environmental Protection Agency
Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604
(312)353-2000 or (800)621-8431
http://www.epa.gov/region5/

U.S. Fish & Wildlife Service
Chicago Illinois Field Office
230 South Dearborn Suite 2938
Chicago, IL 60604
(847)298-3250
http://www.fws.gov/

U.S.D.A. Natural Resources Conservation Service
2315 Dean Street Suite 100
St. Charles, Illinois 60175
(630)584-7960 ext. 3
http://www.il.nrcs.usda.gov/

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Service Layer Credits Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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https://pubs.usgs.gov/wsp/wsp2294/

Wetlands of DuPage County, Illinois
http://gis.dupageco.org/arcgis/rest/services/OpenData

2015 DuPage County, Illinois

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SITE INSPECTION

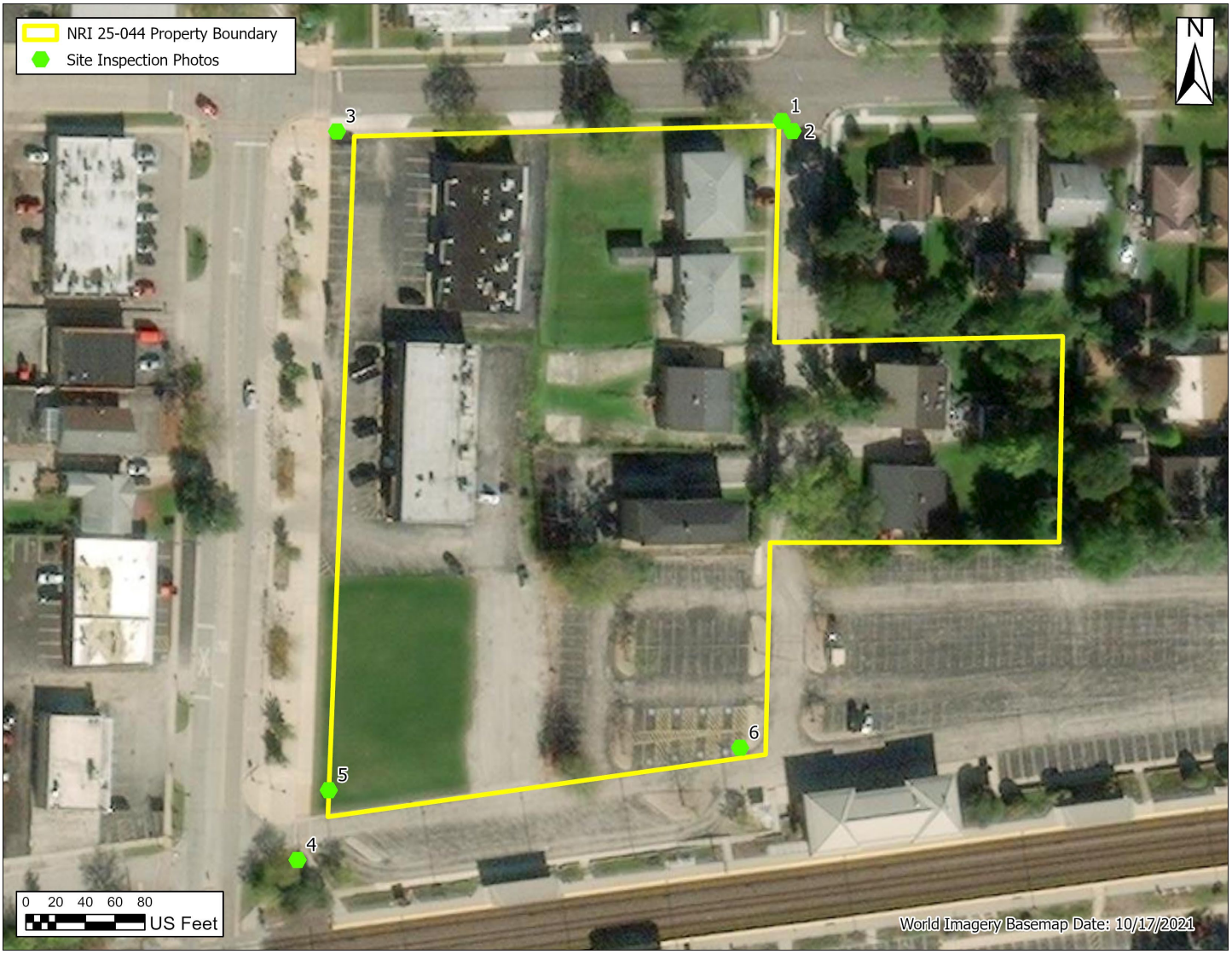

Figure 17: Location of site inspection photos

A site inspection was conducted by **Resource Analyst, Emma Hunter** on **May 29, 2025**. **A thorough inspection of the site was not possible due to extensive gating around the perimeter of the property**. The following photos were taken during this inspection and reflect the site conditions at that time.

SITE INSPECTION PHOTOS

Photo 1 facing northwest

Photo 2 facing southwest

Photo 3 facing southeast

Photo 4 facing east

Photo 5 facing northeast

Photo 6 facing north

Salt-Tolerant Trees and Shrubs

Across the Midwest, the use of deicing salts (primarily sodium chloride) in winter to maintain safe roadways, sidewalks, and driveways is a common practice. Despite the benefits, deicing salt deposited on trees and shrubs can cause extensive damage. Deicing salt is dispersed from roads by plowing, meltwater runoff, splash, and aerial spray. Plants sensitive to salts may show injury early and can decline quickly after exposure. When air-borne deicing salt is deposited directly onto twigs, buds, or needles, salt draws moisture out of plant tissue, causing desiccation and burn. On evergreens, such as pines and firs, salt spray causes dieback starting at the tips of needles. On deciduous plants, the symptoms of salt damage become more evident during summer or during hot dry weather, when leaf margins show burn or scorch. Salt spray and excess soil salts can also cause branch dieback, stunted growth of stems and foliage, overall lack of vigor, and death. Turf grass along sidewalks and streets can be completely killed due to excess soil salt.

Symptoms & Effects of Salt Injury

Air-borne Salt

- Plant damage caused by deposition of aerial salts is more widespread than that done by soil salts in the Midwest
- Injury caused by salt spray generally occurs on plants growing near highways and busy streets, where fast moving traffic causes salt dispersal onto nearby landscape plants
- Damage is most severe within 60 feet of the road and decreases with distance, but sensitive plants can show burn at distances of 1,000 feet or more from roadways
- On deciduous plants, salt spray can kill buds and twigs; new growth in spring appears as a cluster of twigs known as “witches’ broom”
- On evergreens, salt spray causes browning or yellowing of needles and twig dieback, often on the roadside portion of the plant only; sensitive evergreens planted within 300 feet of roadways can sustain severe damage
- Branches protected by snow or other barriers are less likely to be injured

Soil Salt

- Plant injury due to soil salt can occur when salt-laden meltwater runs off or splashes onto the soil, and when salt is plowed and shoveled directly on the root zone of nearby plants
- Excessive soil salt accumulates in drainageways, depressions, or areas immediately adjacent to roadways where salt-laden runoff is channeled or splashed
- Concentrated quantities of sodium and chloride can damage plants by direct absorption into the roots, causing toxic effects or root dehydration
- Injury caused by excessive uptake of soil salt includes browning along leaf edges, stunted growth, or fewer and smaller leaves, flowers, and fruit
- Plants grown in poorly drained soils and those that are marginally hardy are more severely injured

Minimize the Injury of Salt Damage

- Avoid or minimize the use of salt around landscape plants
- Reduce the amount of salt used by mixing sand, sawdust, or cinders with salt before applying

- Wait to apply a deicer until after shoveling and plowing, and avoid shoveling salt-laden snow over the root zones of salt sensitive plants
- Alter drainage patterns to avoid accumulation of salt runoff near plants
- Protect low-growing plants susceptible to aerial salt damage by constructing temporary, physical barriers made of burlap or fencing
- Use salt-tolerant plants in highly exposed areas
- Keep plants healthy by mulching to reduce water loss, and by irrigating to help move salts through the soil

Literature cited:

The inconsistency among various authorities in rating salt-tolerance of landscape plants makes it difficult for any one table to be thoroughly accurate. This compilation of salt tolerant plants was derived from the following sources:

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Recommended Salt-Tolerant Landscape Plants

T = Plants with highest degree of salt tolerance. Use in the most exposed areas.
M = Plants with a moderate degree of salt tolerance. Use in low salt areas.
***** = Plants tolerant of soil salt

Deciduous Trees			
Scientific Name	**Common Name**	**Zone**	**Aerial Salt Tolerance**
Acer campestre	Hedge maple	5-8	M
Acer ginnala	Amur maple	2-8	M
Acer nigrum	Black maple	4-9	M
Acer pseudoplatanus	Sycamore maple	5-7	T
Acer saccharinum	Silver maple	3-9	M
*Aesculus hippocastanum**	Horse-chestnut	4-7	T
Aesculus octandra	Yellow buckeye	4-8	M
Amelanchier x *grandiflora*	Apple serviceberry	4-9	T
Betula nigra	River birch	3-7	M
*Carya cordiformis**	Bitternut hickory	4-9	T
Carya ovata	Shagbark hickory	4-8	T
Catalpa speciosa *	Northern catalpa	4-8	T
*Celtis occidentalis**	Hackberry	2-9	M
Diospyros virginiana	Persimmon	4-9	M
*Ginkgo biloba**	Ginkgo	3-8	M
*Gleditsia triacanthos**	Honey locust	3-9	T
*Gymnocladus dioicus**	Kentucky coffeetree	3-8	T
Juglans cinerea	Butternut	3-7	T
*Juglans nigra**	Black walnut	4-9	T
Koelreuteria paniculata	Golden rain tree	5-8	M
Larix decidua	European larch	2-6	T
Larix laricina	American larch	2-5	T
*Liquidambar styraciflua**	Sweet gum	5-9	T
Magnolia x *soulangiana*	Saucer magnolia	5-9	M
Malus (some cultivars)	Crabapple	5-7	M
(x *zumi* 'Calocarpa', 'Adams', 'Donald Wyman', 'Prairifire')			
*Nyssa sylvatica**	Tupelo	4-9	M
Ostrya virginiana	Ironwood	3-9	M
*Platanus occidentalis**	Sycamore	4-9	M
Prunus maackii	Amur chokecherry	3-6	M
*Prunus virginiana**	Choke cherry	2-6	M
Pyrus calleryana	Callery pear	5-8	M
Quercus alba	White oak	3-9	T
*Quercus bicolor**	Swamp white oak	4-8	M
*Quercus ellipsoidalis**	Northern pin oak	4-6	M
Quercus imbricaria	Shingle oak	4-8	M
*Quercus macrocarpa**	Bur oak	2-8	M
Quercus robur	English oak	4-8	T
Sassafras albidum	Sassafras	4-9	M
*Syringa amurensis**	Japanese tree lilac	3-7	T
*Syringa pekinensis**	Peking lilac	4-7	T
*Taxodium distichum**	Bald-cypress	4-9	T
Ulmus 'Regal'*	Regal elm	4-6	T

Evergreen Trees			
Scientific Name	**Common Name**	**Zone**	**Aerial Salt Tolerance**
*Juniperus chinensis**	Chinese juniper	2-8	T
*Juniperus horizontalis**	Creeping juniper	4-9	T
Juniperus virginiana	Eastern red-cedar	3-9	T
*Picea pungens**	Blue spruce	2-7	T
*Pinus mugo**	Mugo pine	2-7	T
*Thuja occidentalis**	Eastern arborvitae	2-8	M

Shrubs			
Scientific Name	**Common Name**	**Zone**	**Aerial Soil Tolerant**
Alnus rugosa	Speckled alder	3-6	M
Amelanchier canadensis	Serviceberry	3-7	T
*Amorpha fruticosa**	Indigo-bush	4-9	T
Aronia arbutifolia	Red chokeberry	4-8	M
Aronia melanocarpa	Black chokeberry	3-8	M
Berberis thunbergii	Japanese barberry	4-8	T
Buxus microphylla			
var. *koreana*	Korean boxwood	4-9	M
*Caragana arborescens**	Siberian pea-shrub	2-7	T
Caragana fruticosa	Russian pea-shrub	2-6	T
Clethra alnifolia	Summersweet clethra	3-8	T
Comptonia peregrina	Sweet-fern	2-5	T
Cotoneaster species*	Cotoneaster	4-8	T
Forsythia spp.*	Forsythia	6-8	T
Hamamelis virginiana	Witch-hazel	3-8	T
Hibiscus syriacus	Rose-of-Sharon	5-8	M
*Hippophae rhamnoides**	Sea-buckthorn	3-7	T
Hydrangea spp.	Hydrangea	3-9	T
Hypericum spp.	St. John's wort	3-8	T
Ilex verticillata	Winterberry	3-9	M
Lespedeza bicolor	Shrub bush-clover	4-8	T
*Myrica pensylvanica**	Bayberry	3-6	M
Perovskia atriplicifolia	Russian-sage	5-8	T
Philadelphus coronarius	Mock-orange	5-8	M
Potentilla fruticosa	Shrubby cinquefoil	2-7	T
Prunus x *cistena*	Purpleleaf sand cherry	2-8	M
Pyracantha coccinea	Firethorn	6-9	T
Rhodotypos scandens	Black jetbead	4-8	T
Rhus aromatica	*Fragrant sumac	3-9	T
*Rhus glabra**	Smooth sumac	3-9	T
*Rhus typhina**	Staghorn sumac	4-8	T
*Ribes alpinum**	Alpine currant	2-7	M
*Robinia hispida**	Bristly locust	5-8	T
*Rosa rugosa**	Rugosa rose	2-7	T
Sambucus canadensis	Elderberry	3-9	T
Shepherdia canadensis	Buffaloberry	2-6	M
Spiraea spp. (most)	Spirea	3-8	T
Symphoricarpos albus	Snowberry	3-7	T
Syringa meyeri 'Palibin'*	Palibin lilac	3-7	M
Syringa patula 'Miss Kim'*	Miss Kim lilac	3-7	T
Viburnum dentatum	Arrowwood viburnum	5-9	M
Viburnum lentago	Nannyberry	2-8	M
*Viburnum prunifolium**	Blackhaw viburnum	3-9	M
Viburnum trilobum	American cranberry-bush	2-7	M

HOURS

SALT TOLERANT TREES

The snowy and icy winters of the Midwest require the use (or 'over use"?) of salt to clear roads, driveways and sidewalks, along which salt accumulates in the soil over time. Warm weather rains and watering systems slowly wash away these deposits, but sodium accumulates in the soil. Plants in these areas may experience a sodium-induced 'drought', where they are unable to take up water. Often the most salt tolerant plants are also those which tolerate drought. Below are some trees which are reputed to be salt tolerant. to varying degrees.

ACER
campestre+
freemannii+
ginnala+
platanoides+
saccarinum+

AESCULUS
hippocastanum++

AMELANCHIER
canadensis/ grandiflora++

BETULA
nigra+

CATALPA++

CELTIS+

CRATAEGUS
crusgali inermis++

FRAXINUS
americana++

GINKGO+

GLEDITSIA++

GYMNOCLADUS++

MAGNOLIA
soulangiana+

MALUS
x. 'Adams'+
x. 'Donald Wyman'+
x. 'Prairifire'+
calocarpa 'Zumi'+

NYSSA+

OSTRYA+

PICEA
abies+
pungens++

PINUS
nigra++

PYRUS++

QUERCUS
alba++
bicolor+
macrocarpa+
rubra++
robur++

RHUS
glabra / typhina++

SYRINGA++

TAXODIUM++

HAMAMELIS
vernalis / virginiana++

JUNIPERUS++

TILIA
americana / cordata+

+ tolerant

++ very tolerant

LOCATIONS

Hampshire - 44W148 St. Route 72, Hampshire, IL 60140 - 847.683.3700
Volo - 1555 N. US HWY 12, Volo, IL 60041 - 815.344.0944
Bolingbrook - 1050 Lily Cache Lane Suite B, Bolingbrook, IL 60440 - 815.439.7188
Hanover Park - 26W200 Lake St., Hanover Park, IL 60133 - 847.453.1240

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HOURS

SALT TOLERANT SHRUBS

The snowy and icy winters of the Midwest require the use (or 'over use"?) of salt to clear roads, driveways and sidewalks, along which salt accumulates In the soil over time. Warm weather rains and watering systems slowly wash away these deposits, but sodium accumulates in the soil. Plants In these areas may experience a sodium-induced 'drought', where they are unable to take up water. Often the most salt tolerant plants are also those which tolerate drought. Below are some shrubs which are reputed to be salt tolerant, to varying degrees.

ARONIA+

BERBERIS++

BUDDLEIA+

BUXUS
microphylla+

CHAENOMELES+

CLETHRA
alnifolia+

CORNUS
racemosa+
sericea+

COTINUS
coggygria+

COTONEASTER++

FORSYTHIA++

HIBISCUS
syriacus+

HYPERICUM++

HYDRANGEA++

ILEX
glabra+
verticillata+

LONICERA++

PINUS
mugo++

POTENTILLA++

PRUNUS
cistena+

RHUS
aromatica++

RIBES+

ROSA
rugosa++

SPIRAEA++

SYMPHORICARPUS++

SYRINGA++

TAXUS+

VIBURNUM
dentatum+
lantana+
prunifolium+
trilobum+

YUCCA

+ tolerant

++ very tolerant

LOCATIONS

Hampshire - 44W148 St. Route 72, Hampshire, IL 60140 - 847.683.3700
Volo - 1555 N. US HWY 12, Volo, IL 60041 - 815.344.0944
Bolingbrook - 1050 Lily Cache Lane Suite B, Bolingbrook, IL 60440 - 815.439.7188
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HOURS

SALT TOLERANT PERENNIALS

The snowy and icy winters of the Midwest require the use (or 'over use"?) of salt to clear roads, driveways and sidewalks, along which salt accumulates In the soil over time. Warm weather rains and watering systems slowly wash away these deposits, but sodium accumulates in the soil. Plants In these areas may experience a sodium-induced 'drought', where they are unable to take up water. Often the most salt tolerant plants are also those which tolerate drought. Below are some perennials which are reputed to be salt tolerant, to varying degrees.

ACHILLEA+
ALLIUM+
AQUILEGIA++
ARTEMISIA+
ASTER+
ASTILBE+
BRUNNERA+
CAMPANULA+
CHRYSANTHEMUM+
COREOPSIS+
DELPHINIUM+
DIANTHUS++
DICENTRA+
GAILLARDIA++
HEMEROCALLIS++
HEUCHERA+
HOSTA+
IRIS+
NEPETA
PAEONIA+
PEROVSKIA+
PHLOX+
PLATYCODON+
SALVIA+
SEDUM+
THYMUS+
VERONICA+
VIOLA+

* tolerant
** very tolerant

LOCATIONS

Hampshire - 44W148 St. Route 72, Hampshire, IL 60140 - 847.683.3700
Volo - 1555 N. US HWY 12, Volo, IL 60041 - 815.344.0944
Bolingbrook - 1050 Lily Cache Lane Suite B, Bolingbrook, IL 60440 - 815.439.7188
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GARDEN STATION

ARTISAN

ARTISAN ADVISORS, LLC
224.633.2100
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Village of Villa Park

Garden Station

Developer and Project Financing Assessment

September 9, 2026
(Revised September 11, 2026)

Artisan Advisors, LLC
Frankfort, Illinois

Jim Adkins, Managing Partner
David Larson, Managing Director

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1. Engagement

Artisan Advisors, LLC ("Consultant") is pleased to submit the following report summarizing the scope of work completed under the Agreement between Consultant and the Village of Villa Park ("Client") dated July 28, 2026. Client is reviewing an application from Hawthorne Development Corporation ("Hawthorne") to restart the Garden Station project. Hawthorne is seeking to complete a 348 mixed-use, net-zero multifamily development near the Villa Park Metra station. ("Project") The Client has engaged Consultant to assist in the Client's evaluation of the Developer's capacity to complete the Project.

1.1 Information Gathering

David Larson reviewed the Project scope and history with the Client and Village Counsel Montana & Welch, LLC. ("Montana") In addition, the Client provided Larson with Project documentation including information previously provided by Hawthorne. Based upon conversations with the Client and his review of the Project documentation, Larson prepared a due diligence request for Hawthorne which Montana submitted to Hawthorne counsel on August 5, 2026. Hawthorne partially responded to this request on August 28, 2026, although declined to provide financial information and other documentation it deems confidential. It is noted that Artisan was unable to make follow-up inquiries with Hawthorne due to the delay which might have addressed some of the assumptions and observations in this report.

The scope of work and primary documentation reviewed are summarized in the following exhibits:

Exhibit 1: Plan of Financing from TIF Bond Offering Memorandum
Exhibit 2: Artisan Due Diligence Request
Exhibit 3: Hawthorne response to the Due Diligence Request
Exhibit 4: Company overview and bios
Exhibit 5: Hawthorne completed projects
Exhibit 6: July 2026 Financial Projection Workbook
Exhibit 7: Reinova equity letter
Exhibit 8: US Capital letter and term sheet

Montana will supplement the report with public record searches on Hawthorne and related parties. See Section 10.

The observations and findings in this report are based upon a review of this information along with conversations with the Client and Montana.

1.2 Evaluation and Limitations

The information referenced in this report is based upon the documentation and information provided by the Client and Hawthorne. Some online research is also incorporated. Artisan was not requested to, nor did it verify or audit the sources of this documentation and information. Artisan can make no attestation or warranty as to its authenticity and completeness.

2. Executive Summary

The Hawthorne development plan for Garden Station presents a mixed profile: an experienced team and a conceptually strong project, but with material financial uncertainties and feasibility concerns. Hawthorne is contributing a small portion of the total equity and is seeking non-recourse financing so it does not have a lot at risk relative to the project size.

Development Team

Hawthorne has a solid track record in multifamily and sustainable design, and Carlson Construction and Greystar bring strong credentials in construction and property management. Hawthorne's last multifamily project was completed in 2020.

Financial Condition

Hawthorne declined to provide financial statements or lending references. Its global cashflow, leverage and ability to contribute additional capital or withstand project stress could not be assessed.

Project Budget

The budget shows significant cost increases since 2021, including $10.9 million in Commercial Property Assessed Clean Energy (C-PACE) financing and bridge loan payoffs and soft costs. Hard costs increased 13.4% and are projected at $258,000 per unit. It is not known if Hawthorne has a firm bid from Carlson. The C-PACE payoffs and budget variances should be reviewed with Hawthorne.

Equity

The primary equity source, Reinova Partnership, provided a non-binding term sheet for up to $35 million under a Geothermal Energy Supply Agreement (GESA) - Budgeted at 77.7% of total equity. No terms, approval timeline, or closing expectations were disclosed. Developer equity has fallen from $7.9 million (2021) to $3.3 million, representing only 7.5% of total equity.

Debt Financing

US Capital provided a preliminary quote for a non-recourse loan up to $91 million (70% LTC) which is subject to underwriting. Artisan's analysis suggests the project may only qualify for an $81.2 million loan, creating a potential equity shortfall of up to $4.8 million. The financing assumes a HUD loan will refinance the construction loan with a 40-year amortization. Traditional bank takeout financing would be much tighter if a HUD loan is not obtained, typically requiring a 30-year amortization.

Project Economics

The project's rent assumptions exceed market comparables by a wide margin: Hawthorne projects $3.15–$3.32 per sq ft, while market comps range $2.14–$2.48. The project is not feasible if the projected rents cannot be obtained. An updated independent market and absorption study is recommended. Rising interest rates (10-year Treasury at 4.79%) may impact the loan pricing and increase the investor's required return. The 5.5% sale cap rate assumption is at the lower end of a market range for suburban apartments closer to 6.0% to 6.5%.

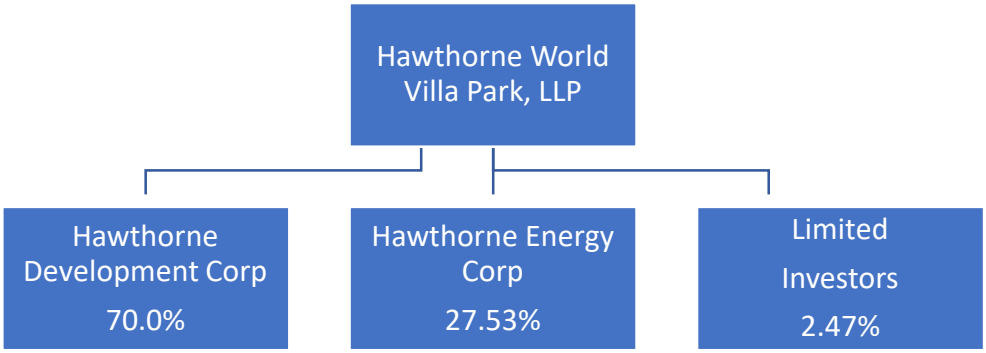
3. Overview

3.1 Background

- The Project originally commenced in 2021 and was to be completed by December 31, 2024, although the senior mortgage construction loan did not close. See Exhibit 1 Plan of Financing.
- Hawthorne made multiple attempts to replace the original lender which were not successful. Additional delays resulted from a bridge lender foreclosure action against Hawthorne who represents that the action was recently resolved.
- The TIF 6 – North Ardmore/Vermont Bond closed in 2021 with $6.4 million in proceeds largely used to fund land acquisition costs.
- Hawthorne represents that it has a construction lender and equity source in place to finance the project. Term sheets have been provided.
- The commuter parking lot is mostly complete with minimal other site work finished.

3.2 Project Ownership

- Hawthorne World Villa Park, LP ("Hawthorne VP") holds title to the nine real estate parcels comprising the Project site, including a 55-space Village lot.
- Hawthorne staff will manage the project and coordinate with the Village, contractor and leasing agent among other third parties.
- Hawthorne and affiliate Hawthorne Energy Corp will manage and control the Hawthorne VP limited partnership as follows:



3.3 Key Parties

- Hawthorne Development Corp and its management team will oversee the project (See bios below).
- Carlson Construction ("Carlson") will serve as the general contractor. Carlson was founded in 1990 and is based in Joliet, Il with a history in commercial, industrial, and public sector projects.
- Carlson completed the Metro 19, a 293-unit luxury apartment complex northwest of the Metra station in Roselle, IL. It opened in January 2026 and is a transit oriented development that received TIF assistance. Carlson also completed a 220-unit class A apartment community in New Lenox, IL in 2021.
- Greystar will manage the lease up and management of the property going forward. Greystar was founded in 1993 and is the largest apartment management company in the U.S. with 1.1 million units under management globally.

4. Hawthorne World

4.1 Background

- Founded in 1984 by Dr. Ganesan Visvabharathy, ("Dr. Vish") Hawthorne World is an Oak Brook based developer focused on multifamily and mixed used projects. See Exhibit 4 for company overview and bios.
- Hawthorne World includes the following companies:
    - Hawthorne Development
    - Hawthorne Construction
    - Hawthorne Energy
    - Hawthorne Communications
    - Hawthorne Finance
    - Hawthorne Life Sciences
- Dr. Vish emphasizes pedestrian-oriented communities with extensive amenities and green technology/sustainable design.
- The company cites its strength as a vertically integrated developer with construction, renewable materials logistics and cleaner energy capabilities in-house.
- Hawthorne World's represents it has developed 32 properties since 1984 and owns projects across five states and three countries.

4.2 Principals and Management

Dr. Vish

- Executive Officer and Chairman.
- Leads seven subsidiaries and oversees strategy, development, acquisitions, financing and major projects. Chairs Hawthorne World's investment and executive committees.
- Degrees: B.E. in Electrical Engineering (University of Madras), MBA (IIM Ahmedabad), Ph.D. in Marketing & Finance (University of Illinois)

Yolanda Contreras

- Executive VP and Chief Operating Officer, Partner.
- 20 years experience in real estate development with expertise in sustainable and net-zero construction. Extensive industry certifications.
- Oversees cross-department operations and third-party coordination, providing design, solar, and business insight

Kirthiga Krishnamurthy

- Chief Financial Officer.
- Oversees full development lifecycle: feasibility, acquisition, budgeting, planning/design, entitlements, financing, construction, asset management, and disposition
- MBA in Finance & Supply Chain (Singapore Management University); Bachelor's in Electrical/Electronics & Communication

Brian Eble

- Executive Vice President and Chief Commercial Officer
- Expertise spans MedTech, Consumer Electronics, AI, IoT, Drones, Digital Signage, AV, Wireless Tech, Commercial Real Estate, and nonprofit organizations
- Led brand and marketing for Miglin Beitler, overseeing a 30 million sq. ft. commercial real estate portfolio across 16 states

4.3 Wildwood Project History

- Hawthorne provided a list of 33 completed projects since 1984. See Exhibit 5.
- The majority have been as developer, owner and GC.
- The most recent project, Evergreen Meadows Senior Living, was completed as developer in 2023.
- The company's last multifamily project, Bessamer Apartments, was completed as developer/owner in 2020.

Hawthorne Completed Projects

Summary by State & Property Type

State	Property Type	Count	Projects
IL	Multifamily	18	2441 N. Talman; LaGrange; Medical Center Apts; 3334 W. Ainslie; Terrace Condos; Raintree; Whispering Lakes; LV Apts; Janda; Forest Glen; Commodore/Greenbrier; Medinah Terrace; 3410 N. Lakeshore; Garden Glenn; Deer Run; Michigan Ave Lofts; Park Terrace; 525 Hawthorne Place
IL	Hotel	3	Pulaski Inn; Days Inn; Holiday Inn
IL	Medical	2	Morris Oncology; Joliet Oncology-Hematology
FL	Multifamily	3	Bluff House; Anastasia Shores; The Venue
TX	Hotel	1	Kiwi Hospitality (TX)
OH	Hotel	2	Kiwi Hospitality (OH)
MI	Hotel	1	Kiwi Hospitality (MI)
NC	Multifamily	1	The Bessemer Apartment
VA	Multifamily	1	Evergreen Meadows – Senior Living
TOTAL		**33**	

4.4 Financial Position

- Artisan requested but was not provided with any financial information.
- The request included global owned portfolio occupancy and cash flow which are an important indicator of the company's overall financial condition.
- Hawthorne represents that it does not have any other projects that are under construction or recently completed.
- The portfolio is concentrated in older, multifamily properties where market conditions have been stable.

4.5 References

- Artisan requested three current lender references including a bank with the primary depository relationship.
- Hawthorne named Fifth Third and Harris Bank although did not provide any additional detail.
- Hawthorne was named Developer of the Year for its Michigan Avenue Lofts development by the City of Chicago. Michigan Lofts is a 247 residential unit conversion of the former Standard Oil headquarters at 910 S. Michigan Ave was completed in 2001.

5. Project Financing Sources and Uses

5.1 Budget

- Hawthorne provided a financial projection dated July 25, 2026 ("Projection") which includes a budget, funding sources/uses, rent roll, lease up schedule and pro-forma cash flows. See Exhibit 6.
- The total project cost is $130 million which is an increase of $8.9 million or 7.4% from the original 2021 budget contained in the TIF Bond memorandum. See Exhibit 1.
- Hard construction costs, excluding land, increased by 13.4% from $80.5 million in 2021 to $91.4 million including a 5% contingency.
- The hard construction costs are about $258,000 per unit, netting out a $200/sf assumption for the 8,000 sf of retail space.
- The budget assumes $4.8 million in C-PACE assessments and property taxes and $3 million for land loan payoff. Vaster communicated to Montana that its bridge loan payoff will include $500,000 in interest, which is not included in the budget. The bond debt service reserve was also omitted.

2021 vs 2026 Project Budget Comparison

Category	2021 Budget ($)	July 2026 Budget ($)	$ Change	Variance %
Land Costs & site improve.	$5,550,000	$6,500,000	$950,000	17.1%
CPACE payoff		$4,800,000		
Vaster bridge loan payoff		$3,000,000		
Capital costs, overhead, other		$3,105,000		
Hard Costs	$80,525,000	$91,350,000	$10,825,000	13.4%
Soft Costs	$6,395,000	$7,820,000	$1,425,000	22.3%
Construction loan interest		$7,250,000		
Financing fee		$3,105,000		
Insurance		$2,250,000		
Bond debt service reserve	$650,000	-		
Other Costs	$27,948,000	$820,000		
Total Project Cost	**$121,068,000**	**$130,000,000**	**$8,932,000**	**7.4%**

5.2 Financing Sources

- Hawthorne projects a construction loan of $86 million compared to $79.5 million in 2021.
- The $27.2 million PACE loan is being replaced with $34.2 million in funding from a Geothermal Energy Supply Agreement. ("GESA") Hawthorne's equity contribution has been reduced from $7.9 million in 2021 to $3.3 million.
- Based upon the information provided, additional funding in the amount of $500,000 will be required to cover the Vaster bridge loan interest. See Section 7. for analysis of the construction loan.

Funding Sources

Sources	2021	Jul-26
Senior construction loan	$79,498,000	$86,000,000
GESA equity		$34,200,000
PACE loan	$27,220,000	
Hawthorne equity	$7,850,000	$3,300,000
TIF bond	$6,500,000	$6,500,000
Total	**$121,068,000**	**$130,000,000**

5.3 Observations

- GESA equity comprises 77.7% of the equity in the project.
- Developer equity, excluding TIF bonds, has decreased significantly from $7.9 million in 2021 to $3.3 million. This is a modest 7.5% of the proposed equity.
- A significant amount of the budget increase is accounted for by C-PACE and bridge loan payoffs and soft costs that do not appear to have advanced the project. (Combined $10.9 million)

6. Equity

6.1 Equity Source

- Cash equity comprises 1) $9.8 million in funds spent to date including the $6.5 million proceeds from the TIF Bond; and 2) $34.2 million from Reinova Capital Partners. (“Reinova”)
- The investor is EcoTherm OpCo 1, LLC (“EcoTherm”) which is owned 50/50 by Reinova and a committed co-investor with $481 billion in assets under management. (per Term Sheet)
- Reinova’s capital base is anchored by an investment from one of the largest U.S. university endowments with a fund of $44 billion. It has committed $160 million to Reinova.
- Reinova Partners is a mid-market energy-transition infrastructure investment firm with offices in London, UK and Greenwich, Connecticut**.** They focus on building and transforming companies involved in clean electricity**,** industrial decarbonization**,** clean fuels, and other sustainability solutions**.**

6.2 Equity Proposal

- Reinova issued a Non-Binding Commitment Letter dated July 15, 2026 (“Letter”) in an amount up to $35 million. See Exhibit 7.
- EcoTherm will own the Project’s integrated geothermal HVAC system, subject to terms and conditions to be negotiated by the parties.
- Conditions precedent include satisfaction of a Geothermal Energy Supply Agreement (GESA), documentation acceptable to investor and final internal investment committee approval.
- The letter specifically states it is “an expression of current interest only” and “creates no binding obligation on either party.”

6.3 Observations

- The proposal is non-binding and subject to internal investment committee approval.
- No timeline for approval or closing was specified.
- The GESA structure is atypical of most traditional multifamily financing structures although that does not mean it is not feasible.
- Equity terms and economics were not disclosed so it is difficult to gauge any impact on the financing structure, positive or negative.

7. Construction Loan

7.1 Lender – US Capital

- Hawthorne provided a letter and term sheet from US Capital dated July 6, 2026. for construction financing in an amount up to $91 million. See Exhibit 8.
- Founded in 1998, US Capital provides customized debt, equity, and investment banking solutions for middle-market companies ($25 billion in debt and equity transactions).
- The firm operates a diversified financial platform including investment management, wealth management, securities (FINRA-member broker-dealer), real estate finance, and corporate finance divisions.
- They have a global footprint with offices across major U.S. cities and international hubs including London, Milan, Zurich, Hamburg, Singapore, and Dubai.

7.2 Loan Proposal

- The $91 million facility is set at “up to” 70% of the $130 million project cost.
- A 30% minimum sponsor equity contribution is required. As presented, the term sheet is non-recourse to the principals.
- The facility has a 36 month term and is priced at SOFR plus 6.50%
- Fees total 3% in addition to a $140,000 underwriting fee.
- A seven week timeline to close is provided:
- Execution of engagement documents.
    - Week 1: Client onboarding.
    - Week 2-4: Business model analysis, financial analysis, asset evaluation, and credit memorandum drafting.
    - Week 4-6: Solicit capital partners for allocation, participation and/or syndication.
    - Week 6-7: Closing process.

7.3 Loan to Cost Analysis

- A key variable to the lender’s sizing of the loan amount will be the lender’s underwriting of the project cost which is estimated at $130 million. The term sheet specifies a 70% loan to cost.
- Lenders vary in what they will consider financeable costs, although most focus on hard costs such as land and construction costs. In addition, they will consider soft costs such as professional fees, overhead, property taxes and an interest reserve to carry the loan until the property is leased.
- Soft costs that do not advance the project or relate to prior sunk costs are less likely to be financed. The bridge loan payoff and C-PACE/past due property taxes are examples. Excluding these items and other soft costs from the financeable budget would size the construction loan at $81.2 million instead of the $86 million modeled. This could leave an equity gap of up to $4.8 million.
- The lender will typically require an “as-is” appraisal of the site which to the extent it is greater than the 2021 cost could allow for a higher loan amount.

Project Financing Loan to Cost

Uses	Jul-26	Financeable
Land costs	$4,800,000	$4,800,000
Infrastructure, site prep	$1,700,000	$1,700,000
CPACE payoff	$4,800,000	-
Vaser bridge loan payoff	$3,000,000	-
Capital costs, overhead, other	$3,105,000	-
Hard Costs	$91,350,000	$91,350,000
Soft Costs	$7,820,000	$7,820,000
Construction loan interest	$7,250,000	$7,250,000
Financing fee	$3,105,000	-
Insurance	$2,250,000	$2,250,000
Bond debt service reserve	-	-
Other Costs	$820,000	$820,000
Total Project Cost	**$130,000,000**	**$115,990,000**
Loan Amount - 70% Loan to cost		**$81,193,000**

7.4 Observations

- The proposal is essentially a quote and is missing many customary details including a description of the project and collateral. A minimum loan to appraised value is also not specified.
- The analysis from Section 7.3 indicates that the project might only qualify for a loan of $81.2 million. This should be reviewed with Hawthorne.
- Loan pricing and fees are substantially higher than traditional bank lending sources. That is not to say it can't be financed but that pricing is reflective of an elevated risk profile (with higher loan to cost and development risk).
- Hawthorne did not comment on whether it has paid the $140,000 underwriting fee to begin the process.
- An important component of project financing is planning for a loan source to refinance the construction loan upon completion of the project. HUD financing with a 40-year amortization is modeled in the Projection. No details were provided on the specific HUD program that Hawthorne plans to utilize.

8. Project Economics

8.1 Key Assumptions

- The unit mix includes 65 two-bedroom units, 273 one-bedroom units, and 10 studio units. There is also 8,000 sf. of retail space. See Exhibit 6. Multifamily Rent Roll.
- Projected rents – Two-bedroom units: $3.32/sf, One-bedroom units: $3.15sf and studio $3.32/sf.
- The projection models a 24 month construction period followed by a 24-month lease up schedule. (49% leased at month 12 and 99% leased at month 24.) Commercial occupancy at 90%. See Exhibit 6. Proforma Cash Flows.
- The construction period cash flow was not modeled so it is not possible to assess the adequacy of the interest reserve.
- Net operating income (NOI) is projected at $8.1 million in year four (4) after completion. (With 95% occupancy) The value is estimated at $147 million assuming a 5.5% sale cap rate
- Loan debt service coverage is projected at 1.37x, assuming a $92.3 million takeout loan, 5.75% rate and 40-year amortization.

8.2 Observations

- The nominal rents and rent per square foot assumptions are higher than market comps. Hawthorne projects rents from $3.15 to $3.32 per square foot while the market range is $2.14 to $2.48 per square foot. See below.
- The closest luxury comp in the market is the Ovaltine whose rents are still substantially lower than the Hawthorne projection while excluding promotional discounts.
- The 10 year treasury, which is the basis for many fixed term loans, has moved up significantly in the last several months and is currently 4.79%. The projection HUD rate assumes a 100-basis-point spread to the current treasury which is aggressive for commercial apartments. Higher rates also increase the returns that investors require. The 5.5% sale cap rate assumption is at the lower end of a market range closer to 6.0% to 6.5%. A 6% cap rate would infer a $135 million value which is close to the project budget.
- The loan amortization of 40 years assumes Housing and Urban Development (“HUD”) financing as most banks and non-bank lenders would allow for a maximum amortization of 30 years which would result in much tighter debt service coverage.
- The 24-month lease up is also a critical assumption as it will impact the construction loan interest carry and potentially the availability of the HUD financing.

Villa Park Rental Analysis

Unit Type	Apartment.com (1)	Rent Café (1)	Hawthorne Projection
One bedroom rent	$1,658	$1,840	$2,310
Avg. square feet	668	739	733
Rent per square foot	$2.48	$2.49	$3.15
Two bedroom rent	$1,896	$2,372	$3,374
Avg. square feet	885	972	1,016
Rent per square foot	$2.14	$2.44	$3.32

(1) September 2026 websites

9. Pending Litigation

Hawthorne provided the following pending litigation summary and property tax status.

- Condemnation Suit: Pending condemnation litigation initiated by the Village.
- Parking Lot Suit: Pending litigation initiated by the Village relating to the parking lot.
- Vaster Foreclosure: The Vaster (bridge lender) foreclosure action has been dismissed. (A copy of the dismissal order was referenced but not provided.) Any remaining Vaster payoff obligation will be satisfied at the time of the Construction Loan closing.
- Mechanics' Liens: There are currently no mechanics' liens encumbering the property.
- Property Taxes / C-PACE: Any property taxes associated with the C-PACE payoff have been accounted for and are included in the project pro forma and budgeted to be paid at the time of the Construction Loan closing.

10. Public Record Searches

Montana will complete and review public record searches on the following parties related to the Project:

- Hawthorne World Villa Park, LP
- Hawthorne Development Corporation
- Hawthorn Energy Corporation
- Solar Micronics
- Dr. Ganesan Visvabharthy

11. Findings and Conclusions

11.1 Development Team

- Hawthorne is an experienced developer with an extensive project resume including multiple urban apartment buildings. Hawthorne also has a background in green energy and net carbon zero design.
- The company's last multifamily project, Bessamer Apartments, was completed as developer/owner in 2020.
- Carlson Construction is a large commercial contractor who is highly qualified to complete the project with similar sized projects in its portfolio. Carlson just completed a transit oriented development similar to the Project in Roselle, IL.
- The proposed leasing agent and property manager Greystar is the largest apartment manager in the country and hence well qualified.

11.2 Hawthorne Financial Condition

- Hawthorne was unwilling to provide any financial information so its ability to obtain financing and provide additional financial support to the Project over time if needed is unknown. Lending references were also not provided.

11.3 Project Budget

- A significant amount of the budget increase from 2021 is accounted for by C-PACE and bridge loan payoffs and soft costs that do not appear to have advanced the project. (Combined $10.9 million)
- Vaster bridge loan interest in the amount of $500,000 is not addressed. The proposed resolution needs to be verified with Hawthorne.
- Hard costs increased by 13.4% since 2021 which is not surprising. The estimated hard cost per unit of $258,000 is a critical assumption. It is not known if this cost is supported by a firm bid from Carlson. The budget could be reviewed by a third-party professional which is often a lender requirement for a project of this size.

11.4 Equity

- Hawthorne provided a term sheet from Reinova Partnership which specified up to $35 million in a GESA equity transaction. (77.7% of Project equity) The proposal is non-binding and subject to internal investment committee approval. Terms were not disclosed and no timeline for approval or closing was specified.
- Reinova is a boutique firm largely funded by a university endowment.
- Developer equity, excluding TIF bonds, has decreased significantly from $7.9 million in 2021 to $3.3 million. At 7.5% of the total equity, this is a small portion relative to the project size.

11.5 Debt Financing

- Hawthorne provided a letter and term sheet from US Capital for construction financing in an amount up to 70% loan to cost or $91 million. Hawthorne did not indicate whether it has paid the underwriting fee to commence the approval process.
- The proposal is essentially a quote and is missing many customary details including a description of the project and collateral. A minimum loan to appraised value is also not specified. The loan is non-recourse to the principals.
- Per the analysis in Section 7.3, the project might not qualify for a loan of more than $81.2 million. The lower loan amount and C-PACE/property taxes could result in an equity shortfall up to $4.8 million. This should be reviewed with Hawthorne.
- An important component of project financing is planning for a loan bridge or permanent takeout source upon completion of the project and stabilization. HUD financing has been modeled with a 40-year amortization. Traditional bank financing would be limited to a maximum 30-year amortization which would result in much tighter debt service coverage.

11.6 Project Economics

- The nominal rents and rent per square foot assumptions are higher than market comps. Hawthorne projects rents from $3.15 to $3.32 per square foot while the market range is $2.14 to $2.48 per square foot. The Project's luxury amenities and features appear to be unique to the local market. The Project is not feasible if the projected rents cannot be obtained.
- Most lenders will require an independent rental market and absorption study. The March 16, 2021 Marketability Study completed by Valbridge Property Advisors for the benefit of Hawthorne Development Corporation should be updated. (From TIF Bond offering memo.)
- The 10-year treasury note which is the basis for many fixed term loans has moved up significantly in the last several months and is currently 4.79%. The projection assumes a 100-basis-point spread to the current treasury which is aggressive for commercial apartments. Higher rates can also impact the returns that investors require.
- The 5.5% sale cap rate assumption is at the lower end of a market range closer 6.0% to 6.5%.
- The loan amortization of 40 years is generally only available with Housing and Urban Development ("HUD") financing. Most banks and non-bank lenders would allow for a maximum 30-year amortization which would tighten the debt service coverage ratio.
- The 24-month lease up is a critical assumption as it will impact the construction loan interest carry and potentially the availability of the HUD financing.

Exhibits

1. Plan of Financing from TIF Bond offering memorandum
2. Artisan Due Diligence Request
3. Hawthorne response to the Due Diligence Request
4. Company overview and bios
5. Hawthorne completed projects
6. July 2026 Financial Projection Workbook
7. Reinova equity letter
8. US Capital letter and term sheet

Memo

To: President Patrick and Board of Trustees

From: Jackie Pierce, ARM-P, PHR, Human Resources Manager

Date: September 8, 2026

Re: Paid Parental Leave Policy Update Summary and Proposed Implementation

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I am writing to provide an overview of the collaborative work completed between staff and the Board regarding updates to the Paid Parental Leave Policy. Recent exchanges of feedback have helped ensure the revised policy reflects operational needs, legal compliance, and our shared commitment to clarity, consistency, and employee support.

Throughout this process, both staff and the Board identified several key components of the existing policy that should remain in place due to their effectiveness and alignment with organizational goals. Additionally, adjustments were mutually agreed upon to enhance clarity, address gaps, and support better administration of the policy.

The updated draft incorporates these collective recommendations and is believed to accurately reflect the agreed-upon direction. Staff recommend an implementation date of January 1, 2027, which will allow sufficient time for final approval, staff training, communication rollout, and alignment of internal processes.

A clarification for transition purposes:
Any employee who requests Paid Parental Leave prior to January 1, 2027 will continue to follow the current version of the policy, and any employee requesting leave on or after January 1, 2027 will fall under the newly approved policy.

If the Board would like additional clarification, supporting documentation, or discussion of specific sections, staff are prepared to provide further detail.

Thank you for your thoughtful engagement and collaboration throughout this policy update process.

Paid Parental Leave Policy

Effective January 1, ~~2025~~2027

Purpose/Objective

Flexibility and family-friendly policies are essential to cultivating an atmosphere where employees can thrive professionally without sacrificing essential family obligations. The Village of Villa Park understands the need to give parents additional flexibility and time to bond with their new child and adjust to their new family situation. Therefore, effective January 1, ~~2025~~2027, the Village will provide up to (~~eight~~six weeks/ 240 hours) ~~weeks~~ of paid parental leave to employees following the birth of an employee's children or the placement of children with an employee in connection with most adoptions ("Paid Parental Leave").

Eligibility

- All full-time and regular part-time employees who have worked at least 1,250 hours during the twelve (12) months preceding the qualifying event and who have completed twelve (12) months of service are eligible to receive Paid Parental Leave.

Amount, Time Frame and Duration of Paid Parental Leave

- An eligible employee will be entitled to take up to a total of 68 (~~eight~~six) weeks/ 240 hours of Paid Parental Leave to be used (consecutively or intermittently) within ~~six (6) months~~90 days of the following Qualified Events:
    - The birth and care of newborn children of the employee, including children born through gestational surrogacy.
    - The placement of children, younger than 18, with the employee for adoption. The adoption of a spouse's children is excluded from this policy.
- Paid Parental Leave will run concurrently with Family and Medical Leave Act (FMLA) leave, as applicable.
- The Village uses a rolling twelve (12) month calendar to calculate an employee's eligibility for Paid Parental Leave, measured backward from the date of the Qualified Event.

- The fact that a multiple birth or adoption occurs (e.g., the birth of twins or adoption of siblings) does not increase the ~~8 (eight) week~~ total amount of Paid Parental Leave granted for that Qualified Event. In no case will an employee receive more than ~~8~~ 6 (six~~eight~~) weeks/ 240 hours of Paid Parental Leave in a rolling 24-month period, regardless of whether more than one birth or adoption event occurs within that 24-month time frame.

- Each week of Paid Parental Leave is compensated at 100 percent of the employee's regular, straight-time pay rate. Paid Parental Leave will be paid on the Village's regularly scheduled pay dates.

- Approved Paid Parental Leave may be taken consecutively or intermittently at any time during the ~~six (6) month~~ninety (90) day period immediately following the birth or adoption of a child. Paid Parental Leave may not be used or extended beyond this ninety (90) day ~~six (6) month~~ time frame.

- Any unused Paid Parental Leave will be forfeited at the end of the ninety (90) day ~~six (6) month~~ time frame.

- Upon termination of the individual's employment at the Village, the employee will not be paid for any unused Paid Parental Leave for which they were eligible.

Coordination with Other Policies

- Paid Parental Leave taken under this policy will run concurrently with leave under the FMLA; thus, any leave taken under this policy that falls under the definition of circumstances qualifying for leave due to the birth or adoption of a child, the leave will be counted toward the 12 weeks of available FMLA leave per a 12-month period. All other requirements and provisions under the FMLA will apply. Employees will be required to exhaust all available paid time off, before going unpaid, during any leave of absence. Please refer to the Village's Family and Medical Leave Policy for further guidance on the FMLA.

- In the event of an employee who has given birth, Paid Parental Leave will run concurrently with short term disability, if the employee is eligible for short term disability benefits. Paid Parental Leave may be used during the initial unpaid waiting period for the commencement of the short-term disability leave; however, in no event may the use of short-term disability, or other paid leave benefits, be added as an extension to the allowed total leave time following for child bonding.

- The Village will maintain all benefits for employees during the Paid Parental Leave period just as if they were taking any other paid leave such as paid vacation leave or paid sick leave.

- If a Village holiday occurs while the employee is on Paid Parental Leave, such day will be charged to holiday pay; however, such holiday pay will not extend the total duration of the Paid Parental Leave entitlement.

Requests for Paid Parental Leave

- The employee will provide their supervisor and the human resource department with notice of the request for Paid Parental Leave at least 30 days prior to the proposed date of the leave (or if the date of the Qualified Event was not foreseeable, as soon as possible).

- The employee will meet with a human resources department staff member to review all required leave documentation and pay.

- The Village Manager has the exclusive right to interpret this policy and the corporate authorities of the Village may rescind or amend this policy at any time.

Continuation of Employment

- The Village's provision of Paid Parental Leave is an investment in its employees for the purpose of retaining their employment with the Village.

- If an employee who has taken Paid Parental Leave voluntarily terminates employment within eighteen (18) months of a Qualifying Event, the employee shall be required to reimburse the Village for any amount of salary earned during the employee's Paid Parental Leave period, excepting the employee's salary earned during the first week of the Paid Parental Leave period.

- Employees receiving Paid Parental Leave shall be required to acknowledge and agree to this Continuation of Employment requirement in writing before any Paid Parental Leave can be used. This agreement shall include a schedule of reimbursement not to exceed ninety (90) days.~~six (6) months~~.

MEMORANDUM

TO: Village Board of Trustees

FROM: Kevin Mantels, Village Engineer

DATE: September 14, 2026

SUBJECT: Resolution of the Village of Villa Park, DuPage County, Illinois, Approving an Engineering Services Agreement with V3 Companies, Ltd., of Woodridge, Illinois, for Flood Study of the Biermann and Sunset Area in an Amount Not to Exceed $17,700.00.

RECOMMENDED ACTION:
The following Resolution would authorize the Village Manager to enter into an engineering services agreement with V3 Companies, Ltd., of Woodridge, Illinois, for engineering services for the Flood Study of Biermann and Sunset Area in an amount not to exceed $17,700.00. The Flood Study of Biermann and Sunset Area proposes a flood study of residential area near the intersection of Biermann Ave and Sunset Dr.

BACKGROUND:
The residential area adjacent to the intersection of Biermann Ave and Sunset Dr experienced significant street flooding resulting from storms this past summer. Village staff subsequently met with local residents to discuss the occurrences and document the exact extent of the flooding. Additionally, operational staff inspected the existing storm sewer infrastructure to confirm that the flooding was not caused by a blockage or pipe failure. Based on these findings, staff determined that a comprehensive system review of this area is necessary to isolate the root cause of the stormwater backup at this intersection. This evaluation will involve hydraulic modeling of the storm sewers to assess the sewer's capacity, determine definitive causes, and identify the infrastructure improvements required to resolve the issue without generating adverse impacts elsewhere in the storm sewer system.

DISCUSSION:
Public Works staff proposes an engineering services agreement with V3 Companies, Ltd., to perform the flood study in an amount not to exceed $17,700.00. Staff interviewed three engineering consultants to evaluate their abilities to perform the preliminary engineering for this location, and V3 Companies, Ltd., was selected based on their qualifications. The project will utilize Stormwater Fund 68-202-529902

RESOLUTION NO. _____

RESOLUTION OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS, APPROVING AN ENGINEERING SERVICES AGREEMENT WITH V3 COMPANIES, LTD., OF WOODRIDGE, ILLINOIS, FOR THE FLOOD STUDY BIERMANN AND SUNSET AREA IN AN AMOUNT NOT TO EXCEED $17,700.00

WHEREAS, the Village of Villa Park, DuPage County, Illinois (the "*Village*") is a duly organized and validly existing non home-rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and,

WHEREAS, the Village conducted a Qualifications Based Selection (QBS) process for professional engineering services, and Village staff has recommended the selection of V3 Companies, Ltd. of Woodridge, Illinois, to perform the Flood Study of Biermann and Sunset Area in an amount not to exceed Seventeen Thousand Seven Hundred Dollars ($17,700.00); and

WHEREAS, V3 Companies, Ltd. has submitted a proposal to conduct professional design engineering services pursuant to the terms and conditions of the written proposal attached hereto as Exhibit A (the "*Agreement*"); and,

WHEREAS, the President and Board of Trustees of the Village (the "*Corporate Authorities*") have reviewed the Agreement and find that it is in the best interests of the Village and its residents to approve and enter into the Agreement to facilitate the Flood Study of Biermann and Sunset Area.

NOW, THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

Section 1: That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2: That the Agreement between the Village of Villa Park and V3 Companies, Ltd., an Illinois corporation, substantially in the form attached hereto as Exhibit A, is hereby approved. The Village President, Village Clerk, and Village Manager are hereby authorized and directed to execute the Agreement and to take such further actions as may be necessary to carry out the intent and purposes of this Resolution and the Agreement.

Section 3: The officials, officers, employees, and attorneys of the Village are hereby authorized to take such further actions as are necessary to carry out the intent and purpose of this Resolution and the Agreement.

Section 4: All work performed pursuant to this Resolution shall comply with applicable federal, state, and local laws, regulations, and Village codes.

Section 5: If any section, paragraph, clause, or provision of this Resolution is held to be invalid or unenforceable, such invalidity shall not affect the remaining provisions of this Resolution.

Section 6: All resolutions, motions, or parts thereof in conflict with this Resolution are hereby repealed to the extent of such conflict.

Section 7: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

(*Intentionally Left Blank*)

Resolution No: _____

PASSED this _____ day of _____ 2026, by the corporate authorities of the

Village of Villa Park pursuant to a roll call vote as follows:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED by me this ____ day of _____, 2026.

_____
Kevin Patrick, President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this ____ day of _____, 2026.

_____
Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

AGREEMENT
between
THE VILLAGE OF VILLA PARK, ILLINOIS
and
V3 COMPANIES, LTD.,
for the furnishing of
PROFESSIONAL ENGINEERING SERVICES
for the
FLOOD STUDY OF BIERMANN AND SUNSET AREA

THIS AGREEMENT, made and entered into by and between the VILLAGE OF VILLA PARK, ILLINOIS, hereinafter referred to as the "VILLAGE," and V3 COMPANIES, LTD., hereinafter referred to as the "ENGINEER," has been prepared and executed to provide for professional engineering services for the Flodd Study of Biermann and Sunset Area, hereinafter referred to as the "PROJECT".

This agreement is hereinafter referred to as the "AGREEMENT". The work associated with this AGREEMENT is as described below as Engineering Services.

In consideration of these premises and of the mutual covenants herein set forth,

A. THE ENGINEER AGREES:

1. The ENGINEER shall serve as the VILLAGE'S professional construction engineering consultant in those phases of the PROJECT to which this AGREEMENT applies. The ENGINEER shall perform the Engineering Services described in its proposal dated September 4, 2026, entitled "Flood Study of Biermann and Sunset Area - Proposal" attached hereto as Exhibit A and made a part hereof.

2. Additional services beyond the scope of the Engineering Services above-described, requested in writing by the VILLAGE, shall be performed by the ENGINEER in accordance with the hourly rate as agreed upon in writing between the VILLAGE and ENGINEER, and approved by the VILLAGE Board of Trustees.

3. The ENGINEER will perform services under this AGREEMENT in accordance with generally accepted and currently recognized engineering practices and principles, and in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the Chicagoland area. Notwithstanding anything to the contrary which may be contained in this AGREEMENT or any other material incorporated herein by reference, or in any agreement between the Village and any other party concerning the PROJECT, the ENGINEER shall not have control or be in charge of, and shall not be responsible for the means, methods, techniques, sequences or procedures of construction, or the safety, safety precautions or programs of the construction contractor, other contractors or subcontractors performing

any of the work or providing any of the services on the PROJECT. Any provision which purports to amend this provision shall be without effect unless it contains a reference that the content of this condition is expressly amended for the purposes described in such amendment and is signed by the ENGINEER.

4. The ENGINEER shall procure and maintain for the duration of its AGREEMENT, and for three years thereafter, insurance against errors and omissions and claims for injuries to its employees which may arise from, or are in conjunction with, the performance of the work hereunder by the ENGINEER, its agents, representatives, employees, or subcontractors.

a. Minimum Scope of Insurance
Coverage shall be at least as broad as:

(1) Insurance Services Office Commercial General Liability occurrence form CG 0001 (Ed. 11/85);

(2) Insurance Services Office form number CA 0001 (ed. 1/87) covering Automobile Liability, symbol 01 "any auto" and endorsement CA 0029 (Ed. 12/88) changes in Business Auto and Truckers coverage forms - Insured Contract or ISO form number CA 0001 (Ed. 12/90);

(3) Professional Liability/Malpractice Liability policy; and

(4) Worker's Compensation as required by the Labor Code of the State of Illinois and Employers' Liability insurance.

b. Minimum Limits of Insurance
The ENGINEER shall maintain limits no less than:

(1) Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, and property damage. The general aggregate shall be $2,000,000 per project.

(2) Automobile Liability: $1,000,000 combined single limit per accident or bodily injury and property damage.

(3) Professional Liability: $2,000,000 single limit for errors and omissions, professional/malpractice liability.

(4) Workers' Compensation and Employers' Liability: Workers' Compensation insurance within statutory limits, and Employers' Liability limits of $500,000 per accident.

(5) Umbrella Liability: $2,000,000 combined single limit per occurrence for bodily injury, personal injury, and property damage. Minimum Aggregate shall be no less than $2,000,000 per person, per aggregate.

c. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the VILLAGE. At the option of the VILLAGE, either the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the VILLAGE, its officials, employees and volunteers; or the ENGINEER shall procure a bond guaranteeing payment of losses and related investigation, claim administration and defense expenses.

d. Other Insurance Provisions

The policies are to contain, or be endorsed to contain the following provisions:

(1) General Liability and Automobile Liability Coverages

(a) The VILLAGE, its officials, employees and volunteers are to be covered as additional insured as respects: liability arising out of activities performed by or on behalf of the ENGINEER; or automobiles owned, leased, hired or borrowed by the ENGINEER. The coverage shall contain no special limitations on the scope of protection afforded to the VILLAGE, its officials, employees, and volunteers.

(b) The ENGINEER's insurance coverage shall be primary as respects the additional insureds. Any insurance or self-insurance maintained by the VILLAGE, its officials, agents, employees, and volunteers shall be in excess of the ENGINEER's insurance and shall not contribute with it.

(c) Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the VILLAGE, its officials, agents, employees, and volunteers.

(d) The ENGINEER's insurance shall contain a severability of interests clause or language stating

that the ENGINEER's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

(2) All Coverages

Each insurance policy required by this clause shall be endorsed to state that the coverage shall not be voided, canceled, reduced in coverage or in limits except after ten (10) days' prior written notice by certified mail, return receipt requested, has been given to the VILLAGE.

e. Acceptability of Insurers

The insurance carrier used by the ENGINEER shall have a minimum insurance rating of A+ according to the AM Best Insurance Rating Schedule and licensed to do business in the State of Illinois.

f. Verification of Coverage

The ENGINEER shall furnish the VILLAGE with certificates of insurance and with copies of endorsements affecting coverage. The certificates and endorsement for the insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements may be on forms provided by the insurance carrier and are to be received and approved by the VILLAGE before any work commences. The VILLAGE reserves the right to request full certified copies of the insurance policies.

5. To the fullest extent permitted by law, the ENGINEER shall indemnify and hold harmless the VILLAGE, its officials, employees and volunteers against injuries, deaths, loss, damages, claims, suits, liabilities, judgments, cost and expenses, which may in anyway accrue against the VILLAGE, its officials, employees and volunteers, arising in whole or in part in consequence of the negligent or willful performance of this work by the ENGINEER, its employees, or subcontractors, except that arising out of the negligence or willful act of the VILLAGE, its officials, employees and volunteers. The ENGINEER shall, at its own expense, appear, defend and pay reasonable charges of attorneys and reasonable costs and other expenses arising therefore or incurred in conjunction therewith, and, if any judgment shall be rendered against the VILLAGE, its officials, employees and volunteers, in any such action, the ENGINEER shall, at its own expense, satisfy and discharge the same. Nothing contained herein shall be construed as prohibiting the VILLAGE, its officials, employees and volunteers from defending, through the selection and use of their own agents, attorneys and experts, any injuries,

deaths, loss, damages, claims, suits, liabilities, and judgments brought against them. The VILLAGE'S participation in its defense shall not remove the ENGINEER'S duty to indemnify, defend and hold harmless the VILLAGE as set forth herein.

6. Any insurance policies required by this AGREEMENT, or otherwise provided by the ENGINEER, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the VILLAGE, its officials, agents, employees and volunteers and herein provided.

7. The ENGINEER represents and warrants to the VILLAGE that neither it nor any of its principals, shareholders, members, partners, or affiliates, as applicable, is a person or entity named as a Specially Designated National and Blocked Person (as defined in Presidential Executive Order 13224) and that it is not acting, directly or indirectly, for or on behalf of a Specially Designated National and Blocked Person. The ENGINEER further represents and warrants to the VILLAGE that the ENGINEER and its principals, shareholders, members, partners, or affiliates, as applicable, are not, directly or indirectly, engaged in, and are not facilitating, the transactions contemplated by this Agreement on behalf of any person or entity named as a Specially Designated National and Blocked Person. The ENGINEER hereby agrees to defend, indemnify and hold harmless the VILLAGE, the corporate authorities, and all VILLAGE elected or appointed officials, officers, employees, agents, representatives, engineers, and attorneys, from and against any and all claims, damages, losses, risks, liabilities, and expenses (including reasonable attorneys' fees and costs) arising from and related to any breach of the foregoing representations and warranties.

8. The ENGINEER will comply with all applicable federal and Illinois statutes, and local ordinances of the VILLAGE and shall operate within and uphold the ordinances, rules and regulations of the VILLAGE while engaged in services herein described.

9. The VILLAGE reserves the right by written change order or amendment to make changes in requirements, amount of work, or engineering time schedule adjustments, and the ENGINEER and VILLAGE shall negotiate appropriate adjustments acceptable to both parties to accommodate such changes.

10. The VILLAGE may, at any time, by written order to the ENGINEER (Suspension of Services Order) require the ENGINEER to stop all, or any part, of the services required by this AGREEMENT. Upon receipt of such an order, the ENGINEER shall immediately comply with its terms and take all reasonable steps to minimize the costs associated with the services affected by such order. The VILLAGE, however, shall pay all costs incurred by the suspension, including all costs necessary to maintain continuity and for the resumptions of the services upon expiration of the Suspension of Services Order. The ENGINEER will not be obligated to provide the same personnel employed prior to suspension, when the services are resumed, in the event that the period of suspension is greater than thirty (30) days.

11. This AGREEMENT may be terminated by the VILLAGE, upon seven (7) days' written notice to the ENGINEER, at its last known post office address. Provided that, should this AGREEMENT be terminated by the VILLAGE, the ENGINEER shall be paid for any services completed and any services partially completed. All field notes, test records, drawings, and reports completed or partially completed at the time of termination shall become the property of, and made available to, the VILLAGE. Within five (5) business days after notification and request, the ENGINEER shall deliver to the successor VILLAGE Engineer all property, books and effects of every description in its possession belonging to the VILLAGE and pertaining to the office of VILLAGE Engineer.

12. This AGREEMENT may be terminated by the VILLAGE upon written notice to the ENGINEER, at its last known post office address, upon the occurrence of any one or more of the following events, without cause and without prejudice to any other right or remedy:

a. If the ENGINEER commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, United States Code), as now or hereinafter in effect, or if the ENGINEER takes any equivalent or similar action by filing a petition or otherwise under any other federal or state law in effect at such time relating to bankruptcy or insolvency;

b. If a petition is filed against the ENGINEER under any chapter of the Bankruptcy Code as now or hereafter in effect at the time of filing, or if a petition is filed seeking any such equivalent or similar relief against the ENGINEER under any other federal or state law in effect at the time relating to bankruptcy or insolvency.

c. If the ENGINEER makes a general assignment for the benefit of creditors;

d. If a trustee, receiver, custodian or agent of the ENGINEER is appointed under applicable law or under contract, whose appointment or authority to take charge of property of the ENGINEER is for the purpose of enforcing a Lien against such property or for the purpose of general administration of such property for the benefit of the ENGINEER's creditors;

e. If the ENGINEER admits in writing an inability to pay its debts generally as they become due.

13. Upon termination, the ENGINEER shall deliver to the VILLAGE, copies of partially completed drawings, specifications, partial and completed estimates, and data, if any, from investigations and observations, with the understanding that all such material becomes the property of the VILLAGE. In such case, the ENGINEER shall be paid for all services and any expense sustained, less all costs incurred by the VILLAGE, to have the services performed which were to have been performed by the ENGINEER.

14. The ENGINEER is qualified technically and is conversant with the policies applicable to the performance of engineering services and that sufficient, properly trained, and experienced personnel will be retained to perform the services enumerated herein.

15 The ENGINEER will maintain all books, documents, papers, accounting records, and other evidence pertaining to its costs incurred and to make such materials available at the ENGINEER's office at all reasonable times during the AGREEMENT period and retain such records for a period of three (3) years from the date of final payment under this AGREEMENT.

16 The ENGINEER warrants that he has not employed or retained any company or person, other than an employee working solely for the ENGINEER, to secure this AGREEMENT, and that he has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts, or any other consideration, contingent upon or resulting from the award or making of this AGREEMENT. For breach or violation of this warranty, the VILLAGE shall have the right to annul this AGREEMENT without liability, or, in its discretion, to deduct from the AGREEMENT price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

17. This AGREEMENT shall be deemed to be exclusive between the VILLAGE and the ENGINEER. This AGREEMENT shall not be assigned by the ENGINEER without first obtaining permission in writing from the VILLAGE.

18. All books, papers, notes, records, lists, data, files, forms, reports, accounts, documents, manuals, handbooks, instructions, computer programs, computer software, computer disks and diskettes, magnetic media, electronic files, printouts, backups, and computer databases created or modified by the ENGINEER relating in any manner to the work performed by the ENGINEER or by anyone else and used by the ENGINEER in performance of this services under this AGREEMENT (the "Work") shall be a "work made for hire" as defined by the laws of the United States regarding copyrights.

19. The ENGINEER hereby assigns to the VILLAGE and its successors and assigns all of its right, title, interest and ownership in the Work, including, but not limited to, copyrights, trademarks, patents, and trade secret rights and the rights to secure any renewals, reissues, and extensions thereof. The ENGINEER grants permission to the VILLAGE to register the copyright and other rights in the Work in the VILLAGE'S name. The ENGINEER shall give the VILLAGE or any other person designated by the VILLAGE all assistance reasonably necessary to perfect its rights under this AGREEMENT and to sign such applications, documents, assignment forms and other papers as the VILLAGE requests from time to time to further confirm this assignment. The ENGINEER further grants to the VILLAGE full, complete and exclusive ownership of the Work. The ENGINEER shall not use the Work for the benefit of anyone other than the VILLAGE, without the VILLAGE'S prior written permission. Upon completion of the Work or other termination of this AGREEMENT the ENGINEER shall deliver to

the VILLAGE all copies of any and all materials relating or pertaining to this AGREEMENT.

20. The drawings, specifications, reports, and any other PROJECT documents prepared by the ENGINEER in connection with any or all of the services furnished hereunder shall be delivered to the VILLAGE for the use of the VILLAGE. The ENGINEER shall have the right to retain originals of all PROJECT documents and drawings for its files. Furthermore, it is understood and agreed that the PROJECT documents such as, but not limited to, reports, calculations, drawings, and specifications prepared for the PROJECT, whether in hard copy or machine readable form, are instruments of professional service intended for one-time use. The VILLAGE may retain copies, including copies stored on magnetic tape or disk, for information and reference in connection with the occupancy and use of the PROJECT. Any reuse of PROJECT documents, without the express written consent of the ENGINEER, shall be at VILLAGE'S sole risk; and the VILLAGE shall indemnify and hold harmless the ENGINEER from all claims, damages, losses, and expenses including attorney's fees arising out of or resulting therefrom. The ENGINEER shall have the right to include representations of the design of the PROJECT, including photographs of the exterior and interior, among the ENGINEER'S promotional and professional materials. The ENGINEER's materials shall not include the VILLAGE'S confidential and proprietary information.

21. The ENGINEER will not at any time, either directly or indirectly, disclose, use or communicate or attempt to disclose, use or communicate to any person, firm, or corporation any confidential information or any other information concerning the business, services, finances or operations of the VILLAGE except as expressly authorized by the VILLAGE. The ENGINEER shall treat such information at all times as confidential. The ENGINEER acknowledges that each of the following can contain confidential information of the VILLAGE and that the disclosure of any of the following by the ENGINEER without the VILLAGE'S express authorization would be harmful and damaging to the VILLAGE'S interests:

a. Compilations of resident names and addresses, resident lists, resident payment histories, resident information reports, any other resident information, computer programs, computer software, printouts, backups, computer disks and diskettes, and computer databases and which are not otherwise known to the public.

b. All information relating to the Engineering Services being performed by the ENGINEER under this AGREEMENT, regardless of its type or form and which are not otherwise known to the public.

c. Ideas, concepts, designs and plans which are specifically involved with the Engineering Services being performed by the ENGINEER under this AGREEMENT which are created, designed, enhanced by the ENGINEER and which are not otherwise known to the public.

d. Financial information and police records.

This itemization of confidential information is not exclusive; there may be other information that is included within this covenant of confidentiality. This information is confidential whether or not it is expressed on paper, disk, diskette, magnetic media, optical media, monitor, screen, or any other medium or form of expression. The phrase "directly or indirectly" includes, but is not limited to, acting through ENGINEER'S wife, children, parents, brothers, sisters, or any other relatives, friends, partners, trustees, agents or associates.

22. All books, papers, records, lists, files, forms, reports, accounts, documents, manuals, handbooks, instructions, computer programs, computer software, computer disks and diskettes, printouts, backups, and computer databases relating in any manner to the VILLAGE'S business, services, programs, software or residents, whether prepared by the ENGINEER or anyone else, are the exclusive property of the VILLAGE. In addition, all papers, notes, data, reference material, documentation, programs, diskettes (demonstration or otherwise), magnetic media, optical media, printouts, backups, and all other media and forms of expression that in any way include, incorporate or reflect any confidential information of the VILLAGE (as defined above) are the exclusive property of the VILLAGE. The ENGINEER shall immediately return said items to the VILLAGE upon termination of the ENGINEER's engagement or earlier at the VILLAGE'S request at any time.

23. In the event of breach of the confidentiality provisions of this AGREEMENT, it shall be conclusively presumed that irreparable injury would result to the VILLAGE and there would be no adequate remedy at law. The VILLAGE shall be entitled to obtain temporary and permanent injunctions, without bond and without proving damages, to enforce this AGREEMENT. The VILLAGE is entitled to damages for any breach of the injunction, including, but not limited to, compensatory, incidental, consequential, exemplary and punitive damages. The confidentiality provisions of this AGREEMENT survive the termination or performance of this AGREEMENT.

24. The ENGINEER will comply with all laws, codes, ordinances and regulations which are in effect as of the date of this AGREEMENT.

B. THE VILLAGE AGREES:

1. The VILLAGE shall pay the ENGINEER, for the Engineering Services above-described, a fee not to exceed Seventeen Thousand Seven Hundred and 00/100 ($17,700.00) Dollars.

2. For all direct expenses totaling more than Twenty-Five Dollars ($25.00), the ENGINEER shall provide copies of receipts from suppliers of expendable materials. Invoices for reimbursable expenses shall be provided no later than sixty (60) days after

the expense is incurred by the ENGINEER, and if such invoices are not provided within sixty (60) days, the VILLAGE shall not be required to pay such reimbursable expenses.

3. The ENGINEER shall indicate to the VILLAGE the information needed for rendering of the services of this AGREEMENT. The VILLAGE shall provide to the ENGINEER such information as is available to the VILLAGE and the VILLAGE'S consultants and contractors, and the ENGINEER shall be entitled to rely upon the accuracy and completeness thereof.

4. Payment of ENGINEER'S Fee. The VILLAGE, for and in consideration of the rendering of the Engineering Services enumerated herein shall pay to the ENGINEER for rendering such services the fee hereinbefore established in the following manner:

a. Upon receipt of monthly statements from the ENGINEER and the approval thereof by the VILLAGE, payments for the work performed shall be due and payable to the ENGINEER within thirty (30) days after approval by the VILLAGE.

b. Payments shall be made in accordance with the Local Government Prompt Payment Act (50 ILCS 505/1 *et seq.*).

5. This AGREEMENT may be terminated by the ENGINEER, upon thirty (30) days' written notice to the VILLAGE should the VILLAGE fail substantially to perform in accordance with the terms of this AGREEMENT through no fault of the ENGINEER. Upon such termination, the ENGINEER shall make available to the VILLAGE, copies of partially completed drawings, specifications, partial and completed estimates, and data, if any, from investigations and observations, with the understanding that all such material becomes the property of the VILLAGE. The ENGINEER shall be paid promptly for all services provided to the date of termination.

C. IT IS MUTUALLY AGREED:

1. The ENGINEER is an independent contractor in the performance of this AGREEMENT, and it is understood that the parties have not entered into any joint venture or partnership with the other. The ENGINEER shall not be considered to be the agent of the VILLAGE. Nothing contained in this AGREEMENT shall create a contractual relationship with a cause of action in favor of a third party against either the VILLAGE or ENGINEER.

2. Each party to this AGREEMENT shall designate one or more persons to act with authority on its behalf with respect to appropriate aspects of the PROJECT. The persons designated shall review and respond promptly to all communications received from the other party.

3. Written notices between the VILLAGE and the ENGINEER shall be deemed sufficiently given after being placed in the United States mail, registered or certified, postage pre-paid, addressed to the appropriate party as follows:

a. If to the VILLAGE:

VILLAGE OF VILLA PARK
20 S. Ardmore Avenue
Villa Park, Illinois 60181
Attn: Village Manager

b. If to the ENGINEER:

V3 COMPANIES, LTD.
7325 Janes Avenue
Woodridge, Illinois 60517
Attn: Derrick Martin,
Floodplain and Stormwater Management Group Manager

c. Either party may change its mailing address by giving written notice to the other party as provided above. Whenever this AGREEMENT requires one party to give the other notice, such notice shall be given only in the form and to the addresses described in this paragraph.

4. This AGREEMENT represents the entire and integrated contract between the parties and supersedes all prior negotiations, representations or understandings, whether written or oral. This AGREEMENT may only be amended by written instrument executed by authorized signatories of the VILLAGE and the ENGINEER.

5. The terms of this AGREEMENT shall be binding upon and inure to the benefit of the parties and their respective successors.

6. The waiver of one party of any breach of this AGREEMENT or the failure of one party to enforce at any time, or for any period of time, any of the provisions hereof, shall be limited to the particular instance, shall not operate or be deemed to waive any future breaches of this AGREEMENT and shall not be construed to be a waiver of any provision, except for the particular instance.

7. If any term, covenant, or condition of this AGREEMENT or the application thereof to any person or circumstance shall, to any extent, be invalid or unenforceable, the remainder of this contract shall not be affected thereby; and each term, covenant or condition of this AGREEMENT shall be valid and shall be enforced to the fullest extent permitted by law.

8. This AGREEMENT shall be construed under and governed by the laws of the State of Illinois, and all actions brought to enforce the dispute resolution provisions of this AGREEMENT shall be so brought in the Circuit Court of DuPage County, State of Illinois.

9. This AGREEMENT may be signed in counterparts, each of which shall be deemed to be an original, but all of which, taken together, shall constitute one and the same instrument.

10. This AGREEMENT shall become effective only after an appropriation therefor has been made. The term of this AGREEMENT shall be for one year following the effective date of the appropriation.

D. CERTIFICATION OF ENGINEER

1. The ENGINEER certifies that the ENGINEER, its shareholders holding more than five percent (5%) of the outstanding shares of the ENGINEER, its officers and directors are:

a. not delinquent in the payment of taxes to the Illinois Department of Revenue in accordance with 65 ILCS 5/11-42.1-1;

b. not barred from contracting as a result of a violation of either Section 33E-3 (bid rigging) or Section 33E-4 (bid rotating) of the Criminal Code of 1961 (720 ILCS 5/33E-3 and 5/33E-4);

c. not in default, as defined in 5 ILCS 385/2, on an educational loan, as defined in 5 ILCS 385/1;

d. in compliance with the Veterans Preference Act (330 ILCS 55/0.01 *et seq*.);

e. in compliance with equal employment opportunities and that during the performance of the AGREEMENT, the ENGINEER shall:

(1) Not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

(2) If it hires additional employees in order to perform this AGREEMENT or any portion hereof, it will determine the availability (in accordance with the Illinois Department of Human Right's Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

(3) In all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service.

(4) Send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the ENGINEER's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the ENGINEER in its efforts to comply with such Act and Rules and Regulations, the ENGINEER will promptly so notify the Illinois Department of Human Rights; and the VILLAGE and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

(5) Submit reports as required by the Illinois Department of Human Rights, Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.

(6) Permit access to all relevant books, records, accounts, and work sites by personnel of the contracting agency and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.

(7) Not maintain or provide for its employees any segregated facilities at any of its establishments, and not permit its

employees to perform their services at any location, under its control, where segregated facilities are maintained. As used in this section, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis or race, creed, color, or national origin because of habit, local custom, or otherwise.

(8) ENGINEER (except where it has obtained identical certifications from proposed Subcontractors and material suppliers for specific time periods), obtain certifications in compliance with this subparagraph from proposed subcontractors or material suppliers prior to the award of a subcontract or the consummation of material supply agreements, exceeding $10,000.00 which are not exempt from the provisions of the Equal Opportunity clause, and that ENGINEER will retain such certifications in its files.

(9) In the event of the ENGINEER's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Act or the Rules and Regulations of the Department, the ENGINEER may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

f. in compliance with 775 ILCS 5/2-105(A)(4)by having in place and enforcing a written sexual harassment policy.

g. in agreement that in the event of non-compliance with the provisions of this certification relating to equal employment opportunity, the Illinois Human Rights Act or the Illinois Department of Human Rights, Rules and Regulations, the ENGINEER may be declared ineligible for future contracts with the VILLAGE, and this AGREEMENT may be canceled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

h. in compliance with 30 ILCS 580/1 *et seq.* (Drug Free Workplace Act) by providing a drug-free workplace by:

(1) Publishing a statement:

(a) Notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance, including cannabis, is prohibited in the ENGINEER's workplace.

(b) Specifying the actions that will be taken against employees for violations of such prohibition.

(c) Notifying the employee that, as a condition of employment on such AGREEMENT, the employee will:

(i) abide by the terms of the statement; and

(ii) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.

(2) Establishing a drug-free awareness program to inform employees about:

(a) the dangers of drug abuse in the workplace;

(b) the ENGINEER's policy of maintaining a drug-free workplace;

(c) any available drug counseling, rehabilitation, and employee assistance program; and

(d) the penalties that may be imposed upon employees for drug violations.

(3) Making it a requirement to give a copy of the statement required by subparagraph D.1.h.(1) to each employee engaged in the performance of the AGREEMENT, and to post the statement in a prominent place in the workplace.

(4) Notifying the VILLAGE within ten (10) days after receiving notice under Subparagraph D.1.h.(1)(c)(ii) from any employee or otherwise receiving actual notice of such conviction.

(5) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by any employee who is so convicted, as required by 30 ILCS 580/5.

(6) Assisting employees in selecting a course of action in the event drug counseling treatment and rehabilitation is required and indicating that a trained referral team is in place.

(7) Making a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

i in compliance with the Substance Abuse Prevention on Public Works Projects Act (820 ILCS 265/1, *et seq.*), is a party to a collective bargaining agreement dealing with the subject matter of the Substance Abuse Prevention on Public Works Projects Act, or has in place and is enforcing a written program which meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act.

j. not a VILLAGE official, spouse or dependent child of a VILLAGE official, agent on behalf of any VILLAGE official or trust in which a VILLAGE official, the spouse or dependent child of a VILLAGE official.

k. not having solicited any gratuity, discount, entertainment, hospitality, loan, forebearance, or other tangible or intangible item having monetary value including, but not limited to, cash, food and drink, and honoraria for speaking engagements related to or attributable to the government employment or the official position of the employee or officer from the ENGINEER.

l. not having given to any officer or employee of the VILLAGE any gratuity, discount, entertainment, hospitality, loan, forebearance, or other tangible or intangible item having monetary value including, but not limited to, cash, food and drink, and honoraria for speaking engagements related to or attributable to the government employment or the official position of the employee or officer.

m. the ENGINEER acknowledges that, pursuant to the provisions of the Illinois Freedom of Information Act, (5 ILCS 140/1 *et seq.*), documents or records prepared or used in relation to work performed under this AGREEMENT are considered a public record of the VILLAGE; and therefore, the ENGINEER shall review its records and promptly produce to the VILLAGE any

records in the ENGINEER'S possession which the VILLAGE requires in order to properly respond to a request made pursuant to the Illinois Freedom of Information Act (5 ILCS 140/1 *et seq.*), and the ENGINEER shall produce to the VILLAGE such records within three (3) business days of a request for such records from the VILLAGE at no additional cost to the VILLAGE.

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed, by their duly authorized officers as of the dates below indicated.

Executed by the VILLAGE, this ____day of September 2026.

VILLAGE OF VILLA PARK
20 S. Ardmore Avenue
Villa Park, Illinois 60181

ATTEST:

By _____
Kevin Patrick, Village President

By _____
Rolf Laukant, Village Clerk

Executed by the ENGINEER, this __04__day of September, 2026.

V3 COMPANIES, LTD.
7325 Janes Avenue
Woodridge, Illinois 60517

By: _____

Derrick Martin, Floodplain and
Stormwater Management Group Manager

EXHIBIT A
Proposal Dated September 4, 2026
Flood Study of Biermann and Sunset Area Proposal

September 4, 2026

Mr. Michael Guerra, P.E.
Public Works Director
Village of Villa Park
20 S. Ardmore Avenue
Villa Park, IL 60181-2696

RE: Proposal for Professional Services
Sunset and Biermann Conceptual Flood Study

Dear Mr. Guerra,

On behalf of V3 Companies, Ltd. (V3), we are pleased to submit this proposal for professional services on the above-referenced project. If you find this proposal to be acceptable, the executed copies of this letter, together with the General Terms and Conditions attached hereto, which sets forth the contractual elements of this agreement, will constitute the entire agreement between Village of Villa Park (Village or CLIENT) and V3 for services on this project.

PROJECT UNDERSTANDING

It is our understanding that the residential area near the intersection of Sunset Drive and Biermann Avenue experienced significant street flooding during the one or more storm events this summer. An initial evaluation of the publicly available topographic survey indicates that several structures may be at risk of flooding during more significant storm events.

Based on our conversations, CLIENT would like V3 to evaluate the extent and cause of the existing flooding and identify conceptual drainage improvement options and their associated costs so CLIENT can budget future final design and construction phases. This may require modifications to the storm sewer system, enhanced and/or restored overland overflow routes, or other creative solutions (storage, mainline inlet capacity improvements, etc.).

COMPENSATION SUMMARY

The fee for this project is based on a 2.85 Direct Labor Multiplier. This not-to-exceed amount includes reimbursable expenses (equal to 100% of the actual expense) such as printing, postage, messenger service, travel, and other similar project-related items

STORMWATER SERVICES	SCOPE EXHIBIT	FEE (HOURLY)
Existing Conditions H&H Modeling w/ Calibration	A	$6,750
Proposed Concepts & Analysis (H&H, Coordination with CLIENT Permit Scoping)	A	$6,100
Summary Memo with Exhibits and Conceptual Cost Estimates	A	$4,850
STORMWATER SUBTOTAL		***$17,700***
Reimbursables		As Incurred

If Additional Services are required, they will be subject to a separate agreement. No additional services will be performed without prior written approval from the CLIENT.

The CLIENT will be invoiced monthly for professional services and reimbursable expenses. The above financial arrangements are on the basis of prompt payment of invoices and the orderly and continuous progress of the project.

MISCELLANEOUS CONTRACTUAL ITEMS

If the terms of this agreement are found to be satisfactory, please sign this agreement in the space provided and return one signed copy to our office. Receipt of the signed authorization will serve as our Notice to Proceed for this work.

If there are protracted delays for reasons beyond V3's control, an equitable adjustment of the above-noted compensation shall be negotiated taking into consideration the impact of such delay on the pay scales applicable to the period when V3's services are, in fact, being rendered.

If the Village or other interested parties request design data in electronic format, V3 shall be indemnified from any claims arising out of the accuracy, misuse or reuse by others of the data delivered in electronic form.

We appreciate the opportunity to present this proposal and look forward to continuing our work with the Village.

Sincerely,

V3 COMPANIES, LTD.

Derrick L. Martin, P.E.

Floodplain and Stormwater Management Group Manager

Accepted For:

VILLAGE OF VILLA PARK

By: _____

Title: _____

Date: _____

INVOICE INFORMATION

PREFERENCE:

☐ Receive by Email

☐ Receive by Mail

☐ Both

SEND INVOICE TO:

Attention: _____

Company: _____

Address: _____

_____

Email: _____

Phone: _____

Purchase Order # (If Applies)

_____

Important Accounting Notes:

_____

_____

_____

EXHIBIT A – STORMWATER SERVICES

Existing Conditions H&H Modeling

Based on the drainage information provided by CLIENT and confirmed during a review of available topographic information, V3 will develop an urban flooding model of the tributary watershed and existing storm sewer system to replicate flooding depths observed during the recent storms as well as calculated depths for a range of storm frequencies (2-yr, 5-yr, 10-yr, etc.). The existing conditions model will also provide insight into the likely causes of the flooding (inlet and/or pipe capacity, lack of overland emergency flow paths, downstream main line, restrictions, etc.). The modeling will be based on the site specific and aerial topographic information in combination with pipe and critical overflow elevation information provided by CLIENT. If additional detailed survey is required, V3 can provide that as an additional service.

Conceptual Solutions and Proposed H&H Modeling

Building from the existing conditions H&H modeling, V3 will evaluate different conceptual improvements that could range from simple inlet capacity improvements in the study area to a more integrated solution that evaluates the capacity of the downstream storm sewer system and even the possibility of creating storage within the subwatershed. The proposed solutions will identify improvements that can be implemented relatively quickly and cost-effectively (often inlet capacity improvements) as well as potential long-term solutions that need more planning and budgeting (storage creation, relief sewers, infrastructure upgrades, etc.).

The goal is to identify the most cost-effective solution that can also be most easily implemented by CLIENT (if possible, avoid any work on private property unless there is a dedicated easement). V3 will meet with CLIENT to discuss solutions options and associated timing and budgeting (including potential grant funding).

Summary Memo with Exhibits & Conceptual Cost Estimates

V3 will provide a summary memo that briefly describes the results of the modeling, including the flood reduction for the typical range of events. V3 will also provide exhibits showing the conceptual solutions and provide associated cost estimates and permit scoping considerations. V3 will also assist CLIENT in identifying grant funding options (if applicable).

MEMORANDUM

TO: Village Board of Trustees

FROM: Kevin Mantels, Village Engineer

DATE: September 14, 2026

SUBJECT: A Resolution Waiving the Competitive Bid Process and Approving a contract with The Fields of Caton Farm, Inc. of Crest Hill, Illinois, for the 2026 Parkway Tree Program in an Amount Not to Exceed $62,385.00

RECOMMENDED ACTION:
To award the contract for the 2026 Parkway Tree Planting Program to The Fields of Caton, Inc. in the amount of $62,385. This contract will be for 150 Parkway trees with an additional 52 trees for the Lufkin Park landscaping plan. The Fields of Canton were the lowest bidder last year (2025) and they have agreed to extend the bid prices for this year. Staff recommends approval.

BACKGROUND:
The Village Board made the planting of parkway trees a priority and allowed for the allocating of funding for the Village to seek contractual tree planting. The Fields of Caton were the lowest bidder in 2025 and performed satisfactory work by planting 150 locations of 14 different species of trees consisting of maples, oaks, cypress, modified elm, hickory, crab apple and Kentucky coffee that are native to the Chicago area or the State of Illinois. This allowed for a more diverse tree population in the Village and helped the Village continue its classification as a tree city.

DISCUSSION: Although the 2025 contract does not contain a formal extension option, Fields of Caton has agreed to honor their 2025 pricing for this year's program. This rate remains highly competitive, as their original bid was 17% lower than the second-lowest submission and 36% lower than the bid average. To award the 2026 Parkway Tree Planting Program to Fields of Caton, the standard competitive bidding process must be waived. Staff anticipates that re-bidding the program at this time would not yield a lower or more favorable rate.

This contract utilizes GL 10-251-540101, which has a budget of $65,000 for parkway tree planting, and GL 11-206-540102, which has $50,000 budgeted for Lufkin Landscape Improvements.

RESOLUTION NO. _____

RESOLUTION WAIVING THE COMPETITIVE BID PROCESS AND APPROVING A CONTRACT WITH THE FIELDS OF CATON, LLC, OF CREST HILL, ILLINOIS, FOR THE 2026 PARKWAY TREE PLANTING PROGRAM IN AN AMOUNT NOT TO EXCEED $62,385.00

WHEREAS, the Village of Villa Park (the "Village") is a duly organized and validly existing non home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and

WHEREAS, Section 2-220(a)(3) of Division 2 of Article II of Chapter 2 of the Villa Park Municipal Code exempts from the competitive bidding requirements purchase orders or contracts of whatever nature, for labor, services of work, where the Board of Trustees, by a two-thirds majority affirmative vote of its members, waive the requirement of open and competitive bidding; and

WHEREAS, it is the opinion of a majority of the corporate authorities of the Village, that it is advisable, necessary and in the public interest that the Village plants various species of trees for the preservation parkways and parks known as the 2026 Parkway Tree Planting Program; and

WHEREAS, the Village has received a proposal from Fields of Caton, LLC ("Fields of Caton"), of Crest Hill, Illinois, dated August 17, 2026, for the 2026 Parkway Tree Planting Program and for the Lufkin Park Landscape Plan in an total amount not to exceed Sixty Two Thousand Three Hundred Eighty-Five and 00/100 Dollars ($62,385.00); and

WHEREAS, The Fields of Caton was the lowest bidder for the 2025 Parkway Tree Planting Program and has agreed to extend the same bid price for 2026; and

WHEREAS, the Village has worked with Fields of Caton on prior years tree planting project and The Fields of Caton performed satisfactorily; and

WHEREAS, the President and Board of Trustees of the Village have determined

advisable, necessary and in the best interests of the public that the Village waive competitive bidding and accept the Agreement, for the furnishing and planting various species of parkway trees, and other related work, for the 2026 Parkway Tree Planting Program in an amount not to exceed $62,385.00.

NOW, THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Villa Park, DuPage County, State of Illinois, as follows:

Section 1: That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2: It is hereby determined that Fields of Caton, has not been disqualified from bidding, and its proposal met, without exception, all of the requirements of the Village

Section 3: That the competitive bidding requirements are waived in accordance with Section 2-220 of Division 2, of Article II, of Chapter 2 of the Villa Park Municipal Code.

Section 4: It is hereby determined that it is advisable, necessary, and in the public interest that the Village enter into a contract with Fields of Canton for the Project and that the corporate authorities of the Village hereby direct that a notice of award be issued to Fields of Canton for the Project at the unit prices set forth in its proposal.

Section 5: The proposals submitted by Fields of Canton, in the amount not to exceed Sixty Two Thousand Three Hundred Eighty-Five and 00/100 Dollars ($62,385.00), in substantially the form attached hereto as Exhibit A, is hereby approved. The Village President, Village Clerk and Village Manager are hereby authorized and directed on behalf of the Village of Villa Park to execute a contract with Builders for the 2026 Parkway Tree Planting Program, which contract is

hereby approved, with the terms and conditions set forth in the official project manual for said project, incorporated herein by reference and on file in the Public Works Department, provided that all other necessary signatures have been previously affixed to the contract.

Section 6: The officials, officers, employees, and attorneys of the Village are hereby authorized to take such further actions as are necessary to carry out the intent and purpose of this Ordinance and the Agreement.

Section 7: All work performed pursuant to this Resolution shall comply with applicable federal, state, and local laws, regulations, and Village codes.

Section 8: All ordinances, resolutions and policies or parts thereof, in conflict with the provisions of this Resolution are, to the extent of the conflict, expressly repealed on the effective date of this Ordinance.

Section 9: If any provision of this Resolution or application thereof to any person or circumstances is ruled unconstitutional or otherwise invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid application or provision, and each invalid provision or invalid application of this Resolution is severable.

Section 10: The headings/captions identifying the various sections and subsections of this Resolution are for reference only and do not define, modify, expand or limit any of the terms or provisions of the Resolution.

Section 11: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

Resolution No.: _____

PASSED this _____ day of _____ 2026, by the corporate authorities of the

Village of Villa Park pursuant to a roll call vote as follows:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTENTION: _____

APPROVED by me this ____ day of _____, 2026.

_____
Kevin Patrick, President of the
Village of Villa Park, DuPage County, Illinois

ATTESTED and filed in my office,
this ____ day of _____, 2026.

_____
Rolf Laukant, Clerk of the Village
of Villa Park, DuPage County, Illinois

Resolution No.: _____

EXHIBIT "A"
AGREEMENT
between
THE VILLAGE OF VILLA PARK, ILLINOIS
and
THE FIELDS OF CATON, LLC
for the furnishing and application of
2026 PARKWAY TREE PLANTING PROGRAM

VILLAGE OF VILLA PARK

CONTRACT DOCUMENTS

FOR

2026 Parkway Tree Planting Program

Illinois Department of Transportation

Local Public Agency Formal Contract

Contractor's Name

The Fields of Canton, Inc.

Contractor's Address	City	State	Zip Code
1850 Canton Farm Road	Crest Hill	IL	60403

STATE OF ILLINOIS

Local Public Agency	County	Section Number
Village of Villa Park	DuPage	

Street Name/Road Name

2026 Parkway Tree Planting Program

@ CONTRACT BOND (when required)

Type of Funds

Local

For a County and Road District Project

Submitted/Approved

Highway Commissioner Signature & Date

Submitted/Approved

County Engineer/Superintendent of Highways Signature & Date

For a Municipal Project

Submitted/Approved/Passed

Signature & Date

Official Title

Department of Transportation

@ Concurrence in approval of award

Regional Engineer Signature & Date

Local Public Agency	Local Street/Road Name	County	Section Number
Village of Villa Park	2026 Parkway Tree Planting Program	DuPage	

1. THIS AGREEMENT, made and concluded the _____ day of _____ between the Village of Villa Park

Month and Year — Local Public Agency Type

_____ , known as the party of the first part, and The Fields of Canton

Local Public Agency — Contractor

its successor, and assigns, known as the party of the second part.

2. For and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring this contract, the party of the second part agrees with said party of the first part, at its own proper cost and expense, to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this contract.

3. It is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section _____

Section Number

in Village of Villa Park ,approved by the Village of Villa Park on _____ , are essential

Local Public Agency — Date

documents of this contract and are a part hereof.

4. IN WITNESS WHEREOF, the said parties have executed this contract on the date above mentioned.

Attest: The Village Of Villa Park

Local Public Agency Type — Name of Local Public Agency

Clerk Signature & Date

Party of the First Part Signature & Date

By:

(SEAL, if required by the LPA)

(If a Corporation)

Corporate Name

President, Party of the Second Part Signature & Date

By:

(SEAL, if required by the LPA)

(If a Limited Liability Corporation)

LLC Name

Manager or Authorized Member, Party of the Second Part

By:

(If a Partnership)

Partner Signature & Date

Attest:

Secretary Signature & Date

Partner Signature & Date

Partners doing Business under the firm name of

(SEAL, if required by the LPA)

Party of the Second Part

(If an i dividual)

Party of the Second Part Signature & Date

Illinois Department of Transportation

Contract Bond

Local Public Agency	County	Street Name/Road Name	Section Number
Village of Villa Park	DuPage	2026 Parkway Tree Planting	

Bond information to be returned to Local Public Agency at 20 S Ardmore Avenue Villa Park, IL 60181-2696
Complete Address

We, _____
Contractor's Name and Address

a/an_____organized under the laws of the State of _____ as PRINCIPAL, and
State

_____
Surety Name and Address

as SURETY, are held and firmly bound unto the above Local Public Agency (thereafter referred to as "LPA") in the penal sum of

_____

Dollars (_____) lawful money of the United States, to be paid to said LPA, the payment of which we bind ourselves, successors and assigns jointly to pay to the LPA this sum under the conditions of this instrument.

WHEREAS, THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that the said Principal has entered into a written contract with the LPA acting through its awarding authority for the construction of work on the above sections, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW, THEREFORE, if the said Principal shall perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to it for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LPA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective agents this _____ day of _____
Day Month and Year

PRINCIPAL

Company Name

By

Signature & Date

Attest

Signature & Date

Company Name

By

Signature & Date

Attest

Signature & Date

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF IL

COUNTY OF _____

I, _____ , a Notary Public in and for said county, do hereby certify that
Notary Name

_____
[insert name of individuals signing on behalf of PRINCIPAL]

who is/are each personally known to me to be the same person(s) whose name(s) is/are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that he/she/they signed and delivered said instrument freely and voluntarily for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____
Day Month, Year

Notary Public Signature & Date

(SEAL)

Date commission expires _____

SURETY

Name of Surety

Title

By:

STATE OF IL

COUNTY OF _____

I, _____ , a Notary Public in and for said county, do hereby certify that
Notary Name

_____
[insert name of individuals signing on behalf of SURETY]

who is/are each personally known to me to be the same person(s) whose name(s) is/are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that he/she/they signed and delivered said instrument freely and voluntarily for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____
Day Month, Year

Notary Public Signature & Date

(SEAL)

Date commission expires _____

Approved this _____ day of _____
Day Month, Year

Attest: Clerk

Local Public Agency Clerk Signature & Date

The Fields on Caton Farm, Inc.

2412 Hacker Drive
Crest Hill, IL 60403

Estimate

Date	Estimate #
8/17/2026	5112121

Name / Address
Village of Villa Park 20 S. Ardmore Ave. Villa Park, IL 60181

Project

Description	Qty	Cost	Total
Green Mountain Sugar Maple	12	305.00	3,660.00
Thornless Honey Locust	10	270.00	2,700.00
Bald Cypress	12	315.00	3,780.00
Shagbark Hickory	12	375.00	4,500.00
Freeman's Maple	12	295.00	3,540.00
Chinkapin Oak	12	315.00	3,780.00
Shingle Oak	12	315.00	3,780.00
Accolade Elm	12	285.00	3,420.00
New Horizon Elm	12	285.00	3,420.00
Swamp White Oak	12	315.00	3,780.00
Kentucky Coffeetree	12	315.00	3,780.00
Tuliptree	10	315.00	3,150.00
Prince Georges Crabapple	5	315.00	1,575.00
Prairie Crabapple	5	315.00	1,575.00
2026 Fall Planting Program			
Sales Tax		8.00%	0.00

Total $46,440.00

Customer Signature _____

The Fields on Caton Farm, Inc.

2412 Hacker Drive
Crest Hill, IL 60403

Estimate

Date	Estimate #
8/17/2026	5112122

Name / Address
Village of Villa Park 20 S. Ardmore Ave. Villa Park, IL 60181

Project

Description	Qty	Cost	Total
Autumn Brilliance Serviceberry	6	315.00	1,890.00
American Hornbeam	1	315.00	315.00
Eastern Redbud	8	315.00	2,520.00
Flowering Dogwood	11	315.00	3,465.00
Common Witch Hazel	6	285.00	1,710.00
Autumn Flame Red Maple	3	315.00	945.00
Heritage River Birch	4	285.00	1,140.00
Street Keeper Honeylocust	1	270.00	270.00
Kentucky Coffeetree	7	315.00	2,205.00
Red Oak	1	315.00	315.00
New Horizon Elm	3	285.00	855.00
White Pine	1	315.00	315.00
Lufkin Park Landscape Plan Tree List			
Sales Tax		8.00%	0.00

Total $15,945.00

Customer Signature _____

MEMORANDUM

TO:	Village Board of Trustees
FROM:	Ryan Morton, Village Attorney
DATE:	September 14, 2026
SUBJECT:	A Resolution of the Village of Villa Park, DuPage County, Illinois Reaffirming the Preservation of Records

---

RECOMMENDED ACTION:
This item of new business was proposed by Trustee Kumar, seconded by Trustee Cordova. The Resolution reaffirms the Village's commitment to preservation of all records related to public business.

BACKGROUND:
At the August 24th meeting, Trustee Kumar suggested the Village Board should adopt a resolution to ensure public records are being maintained, in light of the ongoing employee investigation and other matters recently brought before the Village Board. The Village currently adheres to the requirements of the Local Records Act (50 ILCS 205/1) as it pertains to retention of documents, recordings, and other materials in the possession of the public body related to public business. Every official, employee, and agent shares in that responsibility. This resolution would reaffirm the Village's commitment to preserving records.

DISCUSSION:
The Resolution directs officials and employees to continue preserving all records, specifically including recordings and transcripts, and documents related to the ongoing employee investigation. It clarifies that this duty to preserve also exists in private locations and on private devices, if the records relate to public business. The Resolution directs staff and officials to suspend any automated deletion or archival process until the employee investigation is completed. It also reaffirms the Village's coordination with Laner Muchin to provide records in conjunction with their investigation.

RESOLUTION NO. _____

A RESOLUTION OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS REAFFIRMING THE PRESERVATION OF RECORDS

WHEREAS, the Village of Villa Park, DuPage County, Illinois (the "Village") is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State of Illinois; and,

WHEREAS, the President and Board of Trustees of the Village (the "Corporate Authorities") are vested with the authority to conduct the business and affairs of the Village; and,

WHEREAS, the Corporate Authorities have authorized an employee investigation (the "Investigation") concerning certain Village employee-related matters; and,

WHEREAS, the preservation of relevant evidence is necessary to ensure the integrity, completeness, and reliability of the Investigation; and,

WHEREAS, the Village, along with its officials, employees, and agents, are required to retain all Village records in any form in accordance with the Local Records Act (50 ILCS 205/1, et seq.) and any approved records retention schedule; and,

WHEREAS, beyond legal requirements, it is in the best interest of the Village, its employees, and the integrity of the Investigation that all elected officials and staff of the Village retain any relevant documents, communications, digital data, and other records in their possession or control that may be related to the Investigation.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

Section 1. That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2. Duty to preserve. All elected officials and Village staff are directed to continue preserving, and to refrain from deleting, altering, or destroying, all records, including digital data, phone logs, call/text records, voicemails, emails, documents, and metadata generated by artificial intelligence applications, that relate to any Village business, including: (a) recordings and transcripts involving elected officials and/or employees discussing Village business; and (b) any Village employee-related matters within the scope of the Investigation.

Section 3. Scope of data. This Resolution applies regardless of the device or account on which such data resides, including Village-issued devices and accounts, and personal devices or accounts to the extent used to conduct Village business or to create, receive, or transmit data described in Section 2.

Section 4. Suspension of routine deletion. The Village's Information Technology function is directed to suspend any automated deletion, retention-schedule purge, or auto-archival process that would otherwise result in the loss of data described in Section 2, for the duration of this Resolution.

Section 5. No self-help review. Nothing herein authorizes any individual to unilaterally search, copy, or review another person's preserved data; access and review shall be coordinated through Laner Muchin conducting the Investigation in accordance with applicable law.

Section 6. Cooperation. All elected officials and staff shall cooperate with reasonable requests from Laner Muchin for access to preserved data, subject to applicable legal privileges and protections.

Section 7. Duration. This Resolution shall remain in effect until the Investigation is concluded and the Corporate Authorities formally release the preservation obligation, or until otherwise modified by the Board.

Section 8. Acknowledgment. The Village Clerk is directed to distribute this Resolution to all elected officials and staff and to obtain a written or electronic acknowledgment of receipt from each recipient.

Section 9. Affirmation. This Resolution is intended to reaffirm the Village's commitment to preserving all Village records in accordance with the Local Records Act, and nothing in this Resolution should be construed to limit, reduce, or modify the requirements of the Local Records Act as it relates to retention of Village records.

Section 10. If any section, paragraph, clause, or provision of this document shall be held invalid, the invalidity thereof shall not affect any other provision hereof.

Section 11. All ordinances, resolutions, motions, or orders in conflict with this document are hereby repealed to the extent of such conflict.

Section 12. This document shall be in full force and effect immediately from and after its passage and approval as provided by law.

[Continued on Next Page]

Resolution No. _____

PASSED this ____ day of _____, 2026, pursuant to a roll call vote as follows:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAINING: _____

Approved this _____ day of _____, 2026.

_____
Kevin Patrick, Village President

Attest:

_____
Rolf Laukant, Village Clerk

MEMORANDUM

TO: Village Board of Trustees

FROM: Ryan Morton, Village Attorney

DATE: September 14, 2026

SUBJECT: A Resolution of the Village of Villa Park, DuPage County, Illinois Adopting a Policy Regarding Use of Stationery and Letterhead

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RECOMMENDED ACTION:
This item of New Business was proposed by Trustee Kumar, seconded by Trustee Cordova. The Resolution establishes a policy for authorized use of Village stationery.

BACKGROUND:
At the August 24th meeting, Trustee Kumar suggested the Village needs a policy to control the use of letterhead and other Village stationery by officials and employees. Her goal is to ensure the use of Village stationery is limited to official communications.

DISCUSSION:
The policy would limit the use of Village stationery to official Village business, as defined in the policy or as authorized by the Village Manager (for employees) or the Village Board (for other members of the Board). The policy also prohibits using Village stationery for personal correspondence, political activities, communications on behalf of outside organizations, and communications expressing individual opinions as if they were official Village positions or actions. Opinion-based communications would need to be clearly identified as such. The Board of Trustees would ultimately be responsible for the administration of this policy.

RESOLUTION NO. _____

A RESOLUTION OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS ADOPTING A POLICY REGARDING USE OF STATIONERY AND LETTERHEAD

WHEREAS, the Village of Villa Park, DuPage County, Illinois (the "Village") is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State of Illinois; and,

WHEREAS, the President and Board of Trustees of the Village (the "Corporate Authorities") are vested with the authority to conduct the business and affairs of the Village; and,

WHEREAS, the Corporate Authorities possess the general corporate authority under the Illinois Municipal Code, 65 ILCS 5/1-1-1 et seq., to manage and control the Village's own property and to govern the internal administration of Village government; and,

WHEREAS, the Corporate Authorities find that the Village does not currently have a clearly stated, standalone administrative policy governing the use of official Village stationery and letterhead by elected officials and staff; and,

WHEREAS, the policy set forth in Exhibit A governs only the use of the Village's own property (its official stationery, letterhead, seal, and logo) and the official conduct of the Village's own officials and employees, and does not purport to regulate the conduct of any private person, and therefore falls within the general corporate powers of the Village notwithstanding its status as a non-home rule municipality; and,

WHEREAS, the Corporate Authorities find that adopting such a policy will promote consistency, protect the integrity of official Village communications, and provide clear guidance to elected officials and staff.

NOW, THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

Section 1. That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2. The "*Village of Villa Park Stationery and Letterhead Use Policy*," attached hereto as Exhibit A and incorporated herein by reference, is hereby adopted as an administrative policy of the Village.

Section 3. All elected officials and Village staff are directed to comply with the policy set forth in Exhibit A in all uses of official Village stationery and letterhead.

Section 4. The Village Manager is directed to distribute the policy set forth in Exhibit A to all elected officials and staff within seven (7) days of adoption of this Resolution, and to distribute it to any newly elected or appointed official or newly hired staff member upon their taking office or commencing employment.

Section 5. If any section, paragraph, clause, or provision of this document shall be held invalid, the invalidity thereof shall not affect any other provision hereof.

Section 6. All ordinances, resolutions, motions, or orders in conflict with this document are hereby repealed to the extent of such conflict.

Section 7. This document shall be in full force and effect immediately from and after its passage and approval as provided by law.

PASSED this ____ day of _____, 2026, pursuant to a roll call vote as follows:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAINING: _____

Approved this _____ day of _____, 2026.

_____

Kevin Patrick, Village President

Attest:

_____

Rolf Laukant, Village Clerk

Exhibit A

VILLAGE OF VILLA PARK ADMINISTRATIVE POLICY

Stationery and Letterhead Use Policy

1. PURPOSE

This policy establishes rules for the use of official Village of Villa Park stationery, letterhead, seal, and logo ("Village Letterhead") to ensure that communications bearing Village Letterhead accurately and consistently represent official Village business, and to protect public trust in the integrity of official Village communications.

2. SCOPE

This policy applies to all elected officials, appointed officials, members of Village boards and commissions, and Village employees, and to all physical and electronic communications bearing Village Letterhead, including printed correspondence, email signatures or templates that incorporate the Village seal or logo, and official Village social media graphics that reproduce Village branding.

3. DEFINITIONS

3.1 "Village Letterhead" means the official letterhead template(s), Village seal, and Village logo maintained by the Village Manager's office, in physical or electronic form.

3.2 "Official Village business" means matters within the scope of an official's or employee's Village duties, responsibilities, or authorized representation of the Village.

4. AUTHORIZED USE

4.1 Village Letterhead may be used only for official Village business, including: a) Correspondence conducted on behalf of the Village in an official capacity; b) Official notices, agendas, minutes, and reports; c) Communications to residents, businesses, agencies, or other governmental bodies regarding Village matters; d) Other communications by employees expressly authorized by the Village Manager; and e) Other communications by members of the Village Board as expressly authorized by the Village Board.

4.2 An individual elected official, officer, board/commission member, or staff member may use Village Letterhead for routine official correspondence within the scope of their normal duties without obtaining prior approval.

5. PROHIBITED USE

Village Letterhead shall not be used for:

5.1 Personal correspondence or personal business unrelated to official Village duties;

5.2 Political campaign material, fundraising solicitations, or endorsement of candidates, parties, or ballot measures;

5.3 Communications expressing the opinions of less than a majority of any board or commission, which could reasonably be mistaken for an official position or action of the Village, the Board of Trustees, or a Village board or commission, unless a disclaimer is included as provided in Section 6;

5.4 Communications on behalf of an outside organization, business, or private interest; or

5.5 Any use not described in Section 4.

6. COMMUNICATIONS REFLECTING INDIVIDUAL VIEWS

Correspondence on Village Letterhead that expresses the personal opinion of less than a majority of any board or commission, rather than an adopted position of that board or commission, must include a clear and readily visible statement that the views expressed are those of the individual sender and do not represent an official position or action of the Village.

7. ADMINISTRATION AND QUESTIONS

7.1 The Village Manager's office is responsible for maintaining the official Village Letterhead template(s) and for issuing them to authorized users.

7.2 The Board of Trustees and Village Attorney are responsible for providing guidance on this policy and for responding to questions about whether a particular use is authorized.

7.3 Any elected official, board/commission member, or employee with a question about whether a specific intended use of Village Letterhead is authorized under this policy should direct that question to the Board of Trustees as a whole and/or the Village Attorney before using the Letterhead for that purpose.

8. REPORTING AND REVIEW OF CONCERNS

8.1 Any person who believes Village Letterhead has been used in a manner inconsistent with this policy may report the concern to the Board of Trustees and the Village Attorney.

8.2 The Village Attorney shall review reported concerns and shall report findings to the Board of Trustees. The Village Attorney or the Board of Trustees, as appropriate, shall make a determination on the reported concern.

9. VIOLATIONS

9.1 Use of Village Letterhead inconsistent with this policy may result in corrective action, up to and including formal action by the Board of Trustees, consistent with applicable personnel policies, the Rules of Order and Procedures for the Board of Trustees, and any other applicable Village policy.

9.2 This policy does not, by itself, create a civil or criminal penalty.

10. POLICY REVIEW

This policy shall be reviewed periodically by the Board of Trustees and may be amended or superseded by future resolution.

MEMORANDUM

TO: Village Board of Trustees

FROM:

DATE: September 14, 2026

SUBJECT: Discussion on an update for the Storm Event Tree Debris Pickup Policy

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RECOMMENDED ACTION:

BACKGROUND:
The Village experienced several severe storms in the months of July and August of this year, resulting in large amounts of tree debris and collection. This led to confusion regarding the Village's official policy regarding storm tree debris from private residential properties. This is a draft proposal of an updated policy for the Department of Public Works to implement and broadcast these events.

DISCUSSION:

Village of Villa Park
20 South Ardmore Avenue, Villa Park, Illinois 60181

DEPARTMENT OF PUBLIC WORKS
Rich Salerno Public Works Director

Phone (630) 834-8505
Fax (630) 834-8509

Storm-Related Tree Debris Pickup Policy

Updated 9/14/2026

Purpose

This policy establishes procedures for storm-related tree debris pickup within the Village of Villa Park, including debris from parkway trees and private property trees, when significant weather events occur.

Regular Brush Pickup (Non-Storm Events)

The Village's contracted vendor, LRS, will provide routine pick-up of brush and limbs under the following conditions:
• Limbs less than 4 inches in diameter
• Pieces less than 4 feet in length
• Bundles less than 18 inches in diameter
• Material must be bundled and placed at the curb following LRS guidelines

Anything larger than these limits is the homeowner's responsibility unless a qualifying storm event occurs.

Village Public Works Responsibilities (Non-Storm Events)
• The Village will provide tree maintenance and debris removal only for trees located within the parkway or other Village-owned right-of-way.
• Private property tree debris is the responsibility of the property owner unless a qualifying storm event occurs as defined below.

Storm Event Definition

A "qualifying storm event" is defined as any weather event in which sustained or peak wind speeds exceed 50 miles per hour, as recorded by an official weather station within Villa Park, Illinois.

Storm-Related Debris Pickup Procedures

When a qualifying storm event occurs:

1. Public Works will coordinate with LRS for community-wide storm debris collection.
2. The Village will pick up tree debris from both parkway trees and private property trees, if the limbs are greater than 2" in diameter and regardless of bundling, provided the debris is placed at the curb with the broken or cut end facing the street.

3. Residents must place debris at the curb within 3 days of the storm event unless extended by declaration of the Village Manager or Public Works Director.
4. Only tree debris will be picked up, landscaping debris from shrubs or other plantings will not be picked up by the Village and should be placed for regular scheduled yard waste pickup.
5. The Village may issue an announcement detailing collection schedules and any additional instructions.

Limitations and Safety

• Debris generated by private contractors hired by property owners will not be eligible for storm-related pickup.
• The Village may suspend collection in areas where debris presents safety hazards until hazards are addressed.
• Extremely large sections of trees or stumps may require specialized handling; the Village may provide guidance or referrals to disposal services.

Verification of Storm Threshold

Public Works will confirm wind speed thresholds using data from:
• The Villa Park weather station, or
• Another official NOAA or National Weather Service source only if local data is unavailable

Policy Administration

This policy shall be administered by the Public Works Director or their designee. Changes may be made as operational needs or contractual arrangements evolve.

Village of Villa Park
20 South Ardmore Avenue, Villa Park, Illinois 60181-2696

Kevin Patrick, Village President

Evening with the Board

Purpose

To replace the current Coffee with the Board program with a new monthly Evening with the Board program that continues to provide residents with an informal opportunity to speak directly with their elected officials while improving accessibility, Board participation, consistency, and the efficient use of Village resources.

Background

At the most recent Village Board meeting, the Board discussed the future of Coffee with the Board. Members expressed strong support for continuing to provide residents with an opportunity to meet informally with members of the Village Board every month, rather than moving to a quarterly schedule.

During that discussion, Board members also identified several challenges with the current Saturday morning format. These included religious obligations, family and parenting responsibilities, coaching and other weekend activities, as well as concerns regarding attendance and participation.

Following the discussion, trustees were asked to identify which Coffee with the Board dates they could attend for September, October, November, and December. A minimum of two trustees was needed for each date, and trustees were given a deadline of Friday to respond so the meetings could be scheduled and communicated to the public in advance.

By the established deadline, only two trustees had responded, and only the October Coffee with the Board received commitments from the minimum two trustees necessary to proceed. The remaining dates didn't receive sufficient participation. Rather than continuing a format that has resulted in recurring attendance and cancellation issues, I propose replacing Coffee with the Board with a new program: Evening with the Board.

Proposed Format

Evening with the Board would be incorporated into the Village's existing monthly Board meeting schedule. The Village Board currently meets on the second and fourth Monday of each month, with the regular stated Village Board meetings beginning at 7:00 p.m.

The monthly schedule would be structured as follows:

Second Monday of each month

- 6:00 p.m. – 7:00 p.m.: Committee of the Whole
- 7:00 p.m.: Regular Stated Village Board Meeting

Fourth Monday of each month

- 6:00 p.m. – 7:00 p.m.: Evening with the Board
- 7:00 p.m.: Regular Stated Village Board Meeting

This structure would provide consistency for both residents and Board members. Residents would know that the fourth Monday of every month at 6:00 p.m. is their opportunity to meet informally with members of the Village Board, while the existing Committee of the Whole schedule on the second Monday would remain unchanged. The purpose and informal nature of Coffee with the Board would also remain unchanged.

Residents could attend Evening with the Board without an appointment and have an opportunity to speak informally with members of the Village Board about Village issues, concerns, questions, or ideas. No formal Village Board decisions or actions would be taken during Evening with the Board. All members of the Village Board would be invited and encouraged to participate.

At 7:00 p.m., Evening with the Board would conclude and the regularly scheduled Village Board meeting would begin. Residents attending Evening with the Board would be welcome to remain for the regular meeting. By establishing the program on the same day and at the same time each month (the fourth Monday at 6:00 p.m.), the Village can provide residents with a predictable and reliable monthly opportunity to engage directly with their elected officials.

Improving Accessibility for Residents

One of the primary goals of this change is to make informal access to the Village Board more convenient for residents as well as Board members. Saturday mornings can be particularly difficult for parents and families. Youth sports, practices, school activities, family commitments, errands, and other weekend responsibilities frequently compete for that time.

Moving the program to a weekday evening recognizes those realities and may provide an opportunity for more parents and families to participate. The 6:00 p.m. start time also provides an opportunity for many residents to participate outside of traditional working hours. This change wouldn't reduce the frequency of resident access. Residents would continue to have the informal monthly opportunity that Coffee with the Board was intended to provide, but at a time that may be more convenient for a broader segment of the community.

Connecting Evening with the Board to an already scheduled Village Board meeting provides an additional benefit. Residents could come to Village Hall at 6:00 p.m., have an informal conversation with their elected officials, and, if they choose, remain afterward to observe or participate in the regular Village Board meeting beginning at 7:00 p.m.

Improving Board Participation and Reliability

The current Coffee with the Board format depends upon trustees being available for a separate Saturday morning commitment. When sufficient Board participation can't be secured, the meeting must be canceled, resulting in the loss of the very resident access the program is intended to provide. Evening with the Board would address this problem by holding the program on an evening when members of the Village Board are already scheduled to be at Village Hall for the regular 7:00 p.m. meeting.

Trustees would no longer need to add a separate Saturday morning event to their calendars. Religious obligations, coaching responsibilities, children's activities, and other weekend commitments would also no longer create the same scheduling conflicts for participation.

This structure would eliminate the need to continually seek volunteers and assign individual trustees to monthly Saturday meetings while significantly reducing the likelihood that an event would need to be

canceled because of insufficient Board participation. Most importantly, it creates a structure capable of consistently providing the monthly resident access that the Board has indicated it wants to preserve.

More Efficient Use of Village Resources

Moving the program to the fourth Monday of each month may also provide an opportunity for the Village to use its resources more efficiently and potentially reduce costs. Coffee with the Board requires the Village to support a separate Saturday morning event. Depending upon staffing and security requirements, this may require additional staff time, police presence, facility operations, or overtime outside the Village's regular meeting schedule.

Under the Evening with the Board format, Village Hall would already be open for the regularly scheduled 7:00 p.m. Village Board meeting. Board members, Village staff, and other personnel necessary to support the regular meeting would already be scheduled to be present that evening.

As a result, the Village may be able to reduce or eliminate additional staffing, overtime, security, and other costs associated with conducting a separate Saturday morning event. This would allow the Village to continue providing monthly resident access while potentially doing so more efficiently and without requiring a separate day of Village operations.

Partnering With and Highlighting Local Businesses

Evening with the Board could also provide an opportunity to strengthen connections between the Village, residents, and Villa Park's local businesses. Rather than routinely purchasing coffee and donuts for the current program, the Village could conduct outreach to local restaurants and food establishments and invite them to participate as a featured local business at an upcoming Evening with the Board.

Interested businesses could voluntarily sponsor an evening by providing or donating refreshments for residents and Board members attending that month's event. Participation would be entirely voluntary. In return, the participating restaurant or business could be appropriately recognized as that month's featured local business through promotion of Evening with the Board, recognition at the event, and other appropriate Village communication channels.

A different participating business could be featured each month, providing an opportunity throughout the year to highlight multiple restaurants and establishments within Villa Park. This approach could reduce or potentially eliminate the Village's cost for refreshments while also providing participating businesses with an opportunity to introduce themselves and their products to residents.

Any sponsorship, donation, or recognition program would be administered consistently and in accordance with applicable Village policies. Refreshments would remain secondary to the primary purpose of Evening with the Board: providing a welcoming and informal environment for residents to engage directly with their elected officials.

Benefits

The proposed Evening with the Board program would:

- Preserve the monthly access to elected officials that members of the Board have indicated is important.
- Maintain the informal, conversational environment residents currently receive through Coffee with the Board.
- Establish a predictable schedule of the fourth Monday of every month from 6:00 p.m. to 7:00 p.m.

- Eliminate many of the scheduling conflicts associated with Saturday mornings for both Board members and residents.
- Make participation more accessible for parents and families who often have youth sports, school activities, family commitments, and other weekend obligations.
- Provide residents with an opportunity to participate outside traditional working hours.
- Hold the program on an evening when trustees are already scheduled to attend a Village Board meeting.
- Improve the likelihood of consistent Board participation.
- Reduce the likelihood of cancellations caused by insufficient trustee participation.
- Eliminate the need to continually seek volunteers and assign trustees to individual monthly meetings.
- Potentially reduce Village staffing, overtime, security, facility, and other costs associated with conducting a separate Saturday morning event.
- Create an opportunity to highlight and support Villa Park restaurants and businesses.
- Potentially reduce or eliminate Village expenditures for refreshments through voluntary local business participation.
- Give residents an opportunity to speak informally with elected officials immediately before the formal business of the Village Board begins.
- Encourage residents attending Evening with the Board to remain for the regularly scheduled Village Board meeting.
- Potentially introduce additional residents to Village Board meetings and encourage greater participation in local government.

Recommendation

Retire the current Coffee with the Board program and replace it with Evening with the Board, held monthly on the fourth Monday of each month from 6:00 p.m. to 7:00 p.m., immediately before the regularly scheduled 7:00 p.m. Village Board meeting.

The second Monday schedule would remain unchanged, with Committee of the Whole from 6:00 p.m. to 7:00 p.m. followed by the regular stated Village Board meeting at 7:00 p.m.

The fourth Monday would mirror that established structure, with Evening with the Board from 6:00 p.m. to 7:00 p.m. followed by the regular stated Village Board meeting at 7:00 p.m.

The goal of this proposal is not to reduce resident access to the Village Board. It’s intended to make that access more reliable, accessible, convenient, and sustainable.

The Board has expressed that residents should have an opportunity every month to speak informally with their elected officials. Evening with the Board preserves that commitment while addressing the attendance and scheduling challenges that have made Coffee with the Board difficult to conduct consistently. Accessibility isn’t simply about how often an opportunity is offered. It’s also about when that opportunity is offered and whether residents can depend upon it being available.

Evening with the Board provides a practical way to continue monthly resident engagement while improving accessibility for working residents, parents, and families; increasing opportunities for Board participation; making more efficient use of Village resources; highlighting local businesses; and creating a stronger and more consistent connection between residents and their Village government.

MEMORANDUM

TO: Village Board of Trustees

FROM:

DATE: September 14, 2026

SUBJECT: Election Process and Candidate Packets

RECOMMENDED ACTION:

BACKGROUND:

DISCUSSION:

MEMORANDUM

TO: Village Board of Trustees

FROM:

DATE: September 14, 2026

SUBJECT: Pursuant to 5 ILCS 120/2(c)(1), the appointment, employment, compensation, discipline, performance, or dismissal of specific employees of the public body or legal
counsel for the public body

RECOMMENDED ACTION:

BACKGROUND:

DISCUSSION:

MEMORANDUM

TO: Village Board of Trustees

FROM:

DATE: September 14, 2026

SUBJECT: Pursuant to 5 ILCS 120/2(c)(11), Litigation, when an action against, affecting or on behalf of the public body has been filed and is pending before a court or administrative tribunal, or when the public body finds that an action is probable or imminent.

RECOMMENDED ACTION:

BACKGROUND:

DISCUSSION: