

**AGENDA
BOARD OF ZONING APPEALS
CITY OF LAKEWOOD
12650 DETROIT AVENUE
MAY 16, 2024**

**PRE-REVIEW MEETING
6:00 P.M.
EAST CONFERENCE ROOM**

**REVIEW MEETING
6:30 P.M.
AUDITORIUM**

- 1. ROLL CALL**
- 2. APPROVE MINUTES OF THE APRIL 18, 2024 MEETING**
- 3. OPENING REMARKS**

NEW BUSINESS

- 4. Docket No. 05-09-24
1114 Forest Rd.**

Applicant David Maniet of Maniet Architects proposes the construction of a new single-family house. The property is located in the R1L, Single-Family Low Density District. (Page 3)

- Variance 1: The proposed primary structure does not meet the minimum required front yard setback of 50 ft on this block of Clifton on the south side between Forest Rd and Lake Rd. The proposed structure is 7 feet 8 inches from the public right of way on Clifton. Request a variance of 42 feet 4 inches, as proposed. Pursuant to section 1121.07 Minimum Yard Requirements for Principal Buildings. (Ord. 91-95. Passed 10-7-1996.)
- Variance 2: The proposed primary structure does not meet the minimum combined setback requirement of a minimum of 25 feet in the R1L District. The south side yard is proposed at 10 feet, north side yard is proposed at 7 feet 8 inches, the combined total of both side yards is 17 feet 8 inches. The minimum required combined total is 25 feet. Request a variance of 7 feet 4 inches, as proposed. Pursuant to section 1121.07 Minimum Yard Requirements for Principal Buildings. (Ord. 91-95. Passed 10-7-1996.)
- Variance 3: The proposed primary structure does not meet the required minimum front yard setback on Forest which is 50 ft on the west side of Forest between Clifton Boulevard and Clifton Road. The primary structure is proposed at 27 feet 10 inches from the public right of way on Forest Rd.. Request a variance of 22 feet 2 inches, as proposed. Pursuant to section 1121.07 Minimum Yard Requirements for Principal Buildings. (Ord. 91-95. Passed 10-7-1996.)

- 5. Docket No. 05-10-24**

**14414 Detroit Ave.
The Marlowe Building**

Applicant David Maniet of Maniet Architects proposes a partially covered rooftop deck. The project was approved by the Architectural Board of Review at its April 11, 2024, meeting. The property is located in the C2, Commercial Retail District. (Page 11)

- Variance 1: Proposed alterations to the existing structure include a rooftop patio, a portion of the proposed deck will be covered by a trellis and a portion will be uncovered. Request a variance for the unroofed portion of the patio which is approx. 867 square feet in area and at an elevation of 53 feet 9 inches. The maximum permitted area of an unroofed patio deck is 300 sq. feet and maximum permitted height is 42 inches, request a variance of 567 feet in area and 50 feet elevation, as proposed. Pursuant to section 1129.03 (Ord. 91-95. Passed 10-7-1996.) and 1127.03(d) (Ord. 24-98. Passed 5-18-1998.)

ADJOURN

“Individuals with disabilities, who require accommodations for participation in meetings, must request accommodations at least 3 business days ahead of the scheduled meeting. Contact [Michelle Nochta](mailto:michelle.nochta@lakewoodoh.net) at (216) 529-5906 michelle.nochta@lakewoodoh.net.”



BOARD OF ZONING APPEALS

12650 Detroit Avenue • 44107 • (216) 529-6630 • FAX (216) 529-5907
www.lakewoodoh.gov

Application Cover Page

Docket No.: 05-09-24

Reference No.: BZA24-000017, BZA24-000019, BZA24-000020

Applicant Name: David Maniet, Maniet Architects

Project Address: 1114 Forest Rd.

Project Name: n/a

Proposal: The construction of a new single-family house. The property is located in the R1L, Single-Family Low Density District.



David Maniet <djmoneit@gmail.com>

ABR Application

Jason Leon <jasonl261313@gmail.com>
To: David Maniet <davidjmaniet@gmail.com>

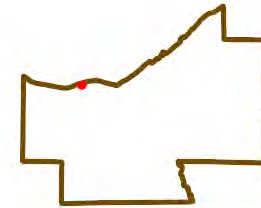
Thu, Apr 18, 2024 at 9:19 AM

Please accept this correspondence authorizing David Maniet with Maniet Architects to act on my behalf for submissions to the Architectural Board of Review.

Jason León
4/18/2024



Leon 311-06-043



Date Created: 1/21/2024

Legend

- Municipalities
- Right Of Way
- Platted Centerline
- Parcel
- Buildings - 2017



1:600



100 0 50 100 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

Cuyahoga County
Enterprise GIS
PUTTING CUYAHOGA COUNTY ON THE MAP

Surveyor's Notes & Basis of Bearings:

This map was prepared without the benefit of a Title Report and is not intended to reflect all easements, encumbrances, or other items affecting the title to the property shown hereon.

The U.S. Route 6 Right of Way plans were heavily relied upon in preparing this map, as the geometry agreed with itself much more so than the geometry shown on the plat recorded in Volume 29, Page 11 of Cuyahoga County Plat Records.

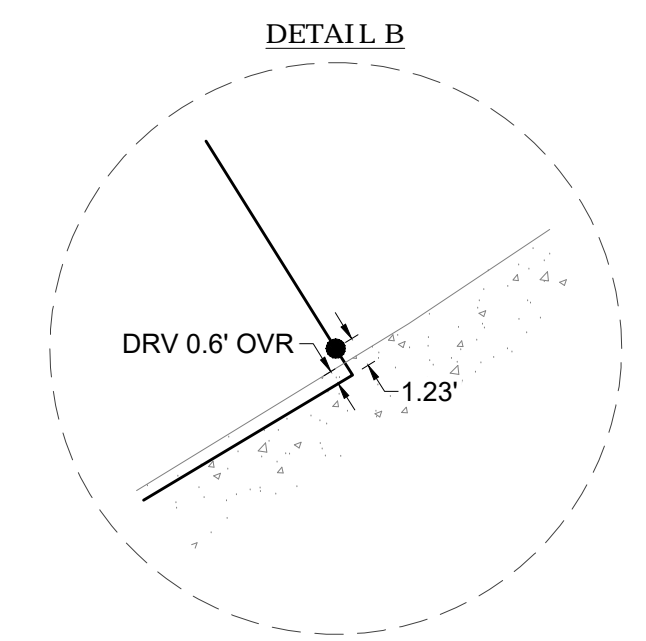
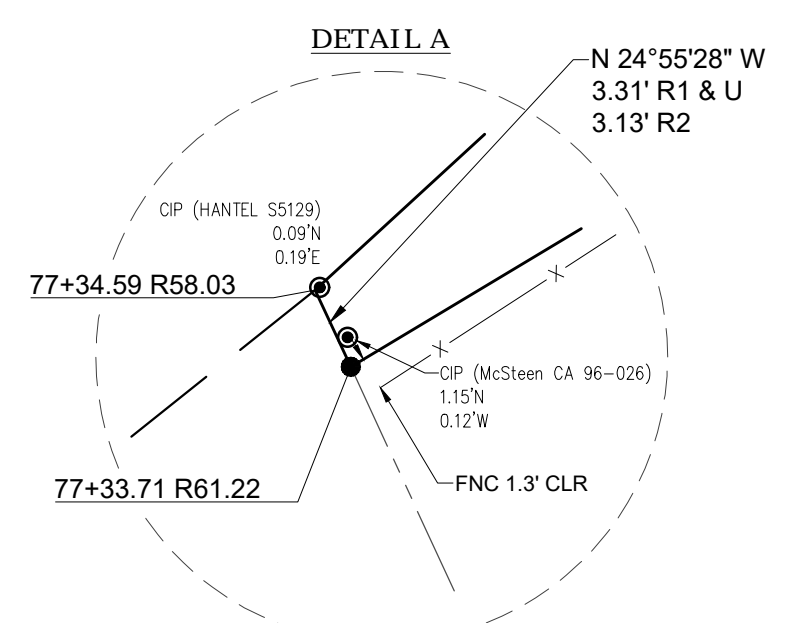
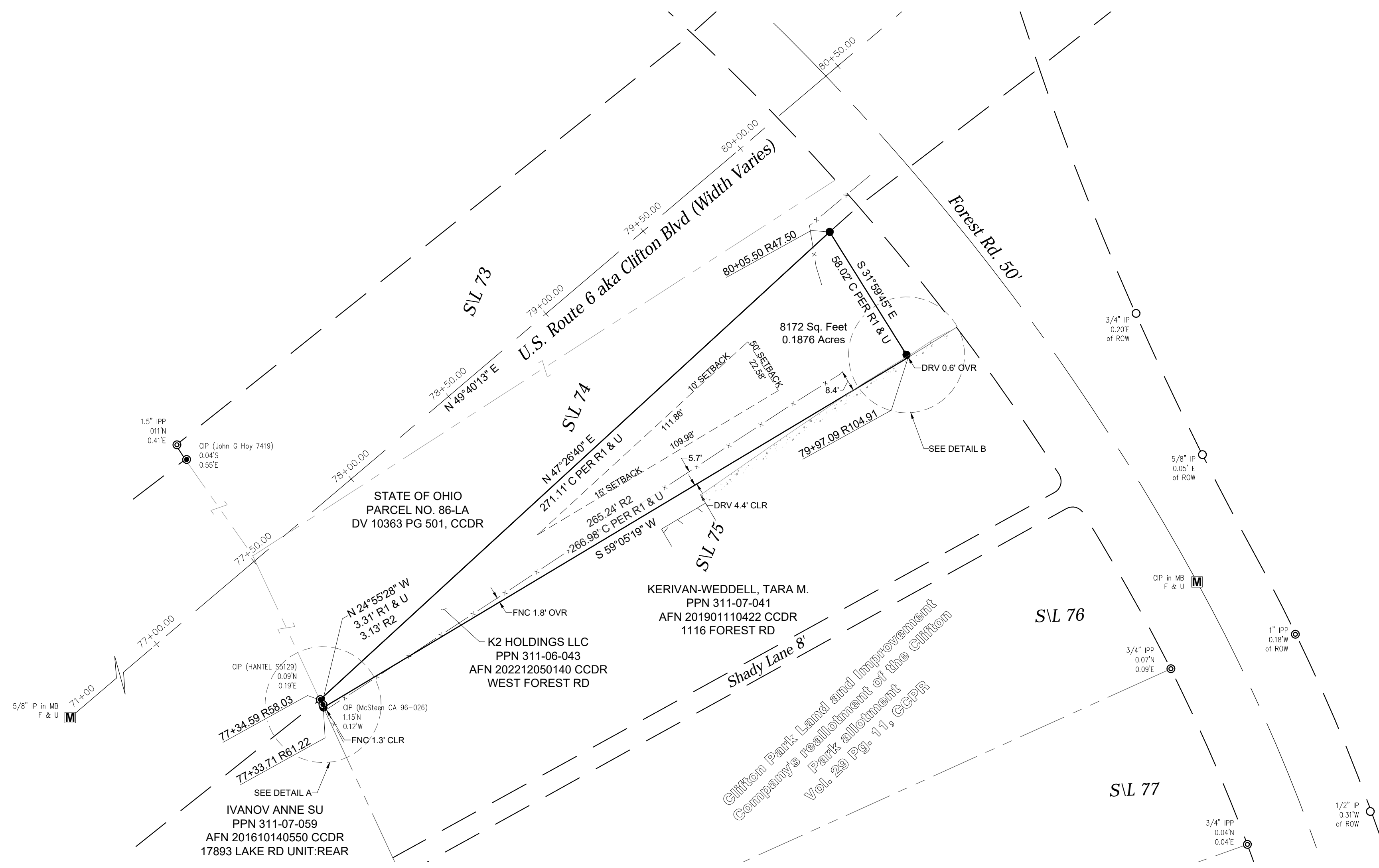
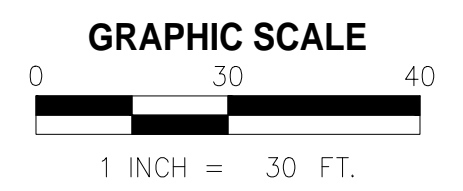
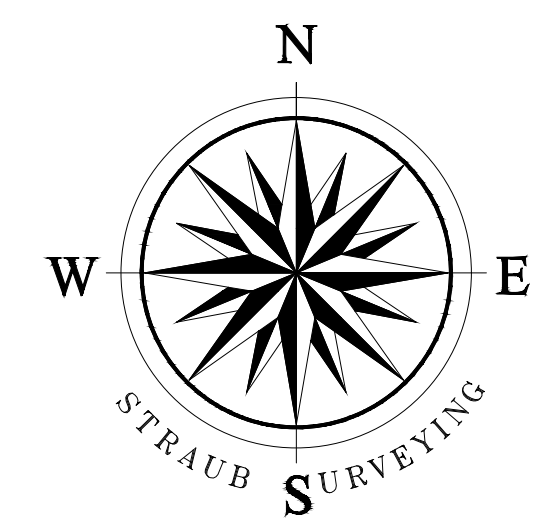
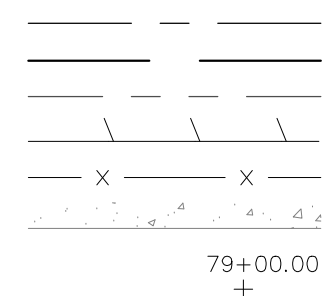
The basis of bearings for this survey, as shown, is the centerline of U.S. Route 6, based on Route 6 Location Plan, Plat Vol. 182, Pg. 25 and is to an assumed meridian used to denote angles only. Distances are in feet and decimal parts thereof. Unless shown otherwise, measurements to monuments found are rectangular measurements from property lines, right-of-way lines, centerlines or other as appropriate. Stations and Offsets are based on U.S. Route 6 Right of Way Plans CUY-6-7.27. CIP set are 5/8" x 30" rebar with yellow cap stamped Straub Surveying PS#7055. References used are listed hereon. This map was prepared from a survey performed by me or under my direction in August, 2023, and meets the requirements defined in Chapter 4733-37 of the Ohio Revised Code, *Minimum Standards for Boundary Surveys*. This map is not valid unless signed and stamped by Surveyor.

Signed 10/3/2023

Known as part of Sublot No. 74
 Clifton Park Land and Improvement Company's
 reallocation of the Clifton Park allotment
 of a part of
 Original Rockport Township Sec. No. 23
 County of Cuyahoga, State of Ohio
 as shown in Plat Volume 29, Page 11
 of Cuyahoga County Plat Records

Survey Legend

- M Measured
- F Found
- U Used
- R Record
- P Plat
- C Calculated
- Ⓜ Monument Box (MB)
- Capped Iron Pin Found
- Capped Iron Pin (CIP) Set
- Iron Pin (IP) Found as Described
- ⊙ Iron Pipe (IPP) Found as Described
- Centerline
- Right of Way (ROW) Line
- Record Property Line
- Building Line
- Fence Line
- Edge of Driveway
- Station and Offset



References:
 Cuyahoga County GIS,
 U.S. Route 6 Right of Way Plans CUY-6-7.27 (R1)
 Subject deed as shown (R2)
 U.S. Route 6 Location Plan Plat Vol. 182, Pg. 25
 Clifton Park Land and Improvement Company's reallocation
 of the Clifton Park allotment Plat Vol. 29, Pg. 11
 Adjoining deeds as shown

STRAUB SURVEYING, LLC
 PROFESSIONAL LASER SCANNING AND SURVEYING SERVICES

12815 DETROIT AVENUE LAKEWOOD, OHIO 44107
 PHONE: 440-333-1700 INFO@STRAUBSURVEYING.COM

Date of Survey: August 31, 2023
 Survey By: C. Sommers, J. Forshey
 Drawn By: C. Sommers, J. Yetzer
 Checked By: M. Straub

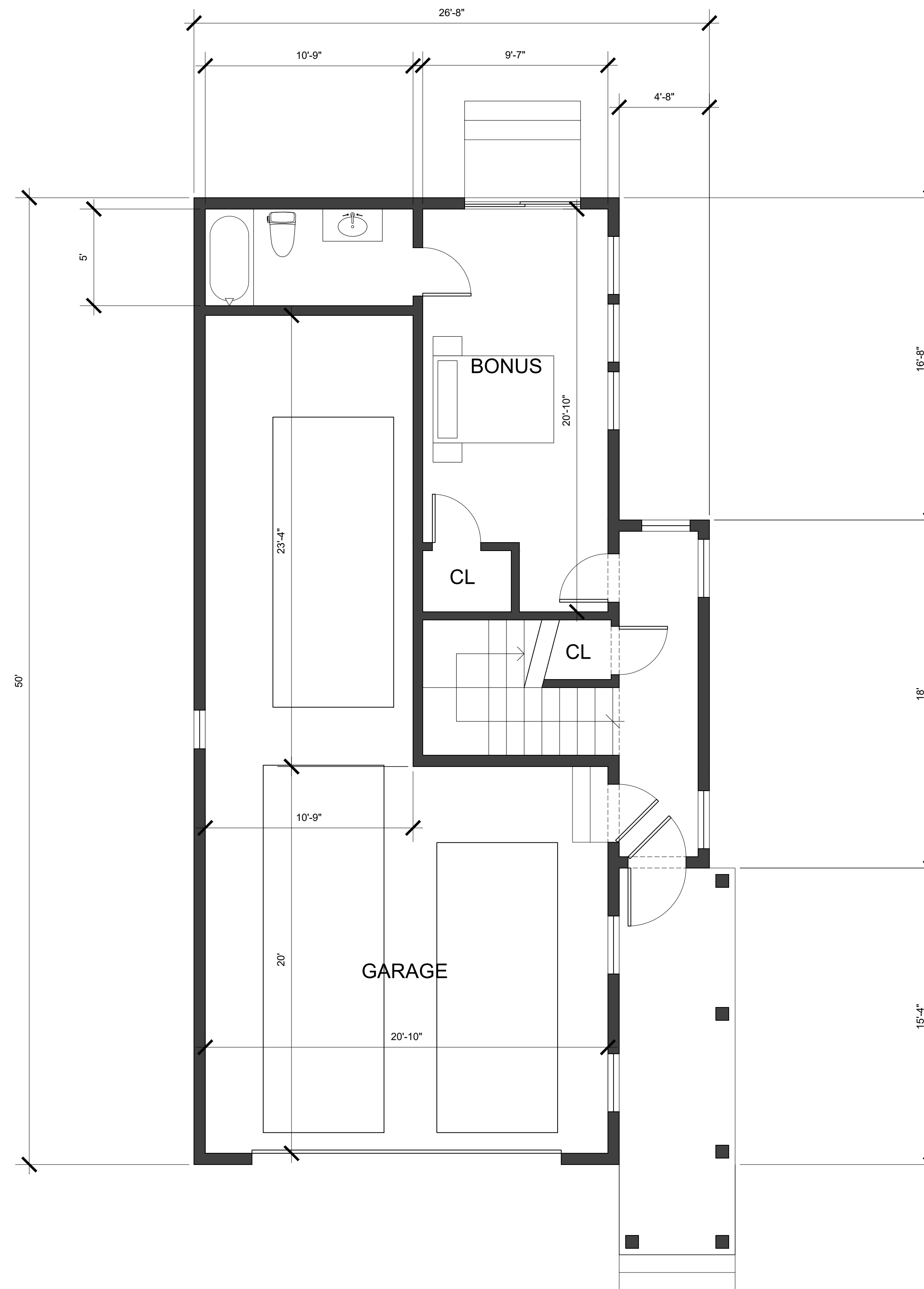
Project No. 23-043-2
 DWG: 23-043 Boundary

Revisions			
NO.	DATE	DESCRIPTION	BY
1	10/02/23	Revise per Monumentation Set	CS
0	9/05/23	Original Issue	CS, JY

Prepared For
Jason Leon
 26538 East Oviatt
 Bay Village, Ohio 44140

**Boundary
 Survey**

Sht.
 1
 of
 1



WALL TYPES

- 1 EXTERIOR 2X6 WOOD STUD WALL @ 24" O.C.
GYPSUM INTERIOR.
- 2 INTERIOR 2X6 WOOD STUD WALL @ 16" O.C.
GYPSUM BOARD FINISH
- 3 INTERIOR 2X4 WOOD STUD WALL @ 16" O.C.
GYPSUM BOARD FINISH

NOTE: USE GREEN BOARD GYPSUM IN BATHROOMS, LAUNDRY ROOM, AND KITCHEN

WALL LEGEND

- NEW STUD WALL
- FOUNDATION WALL



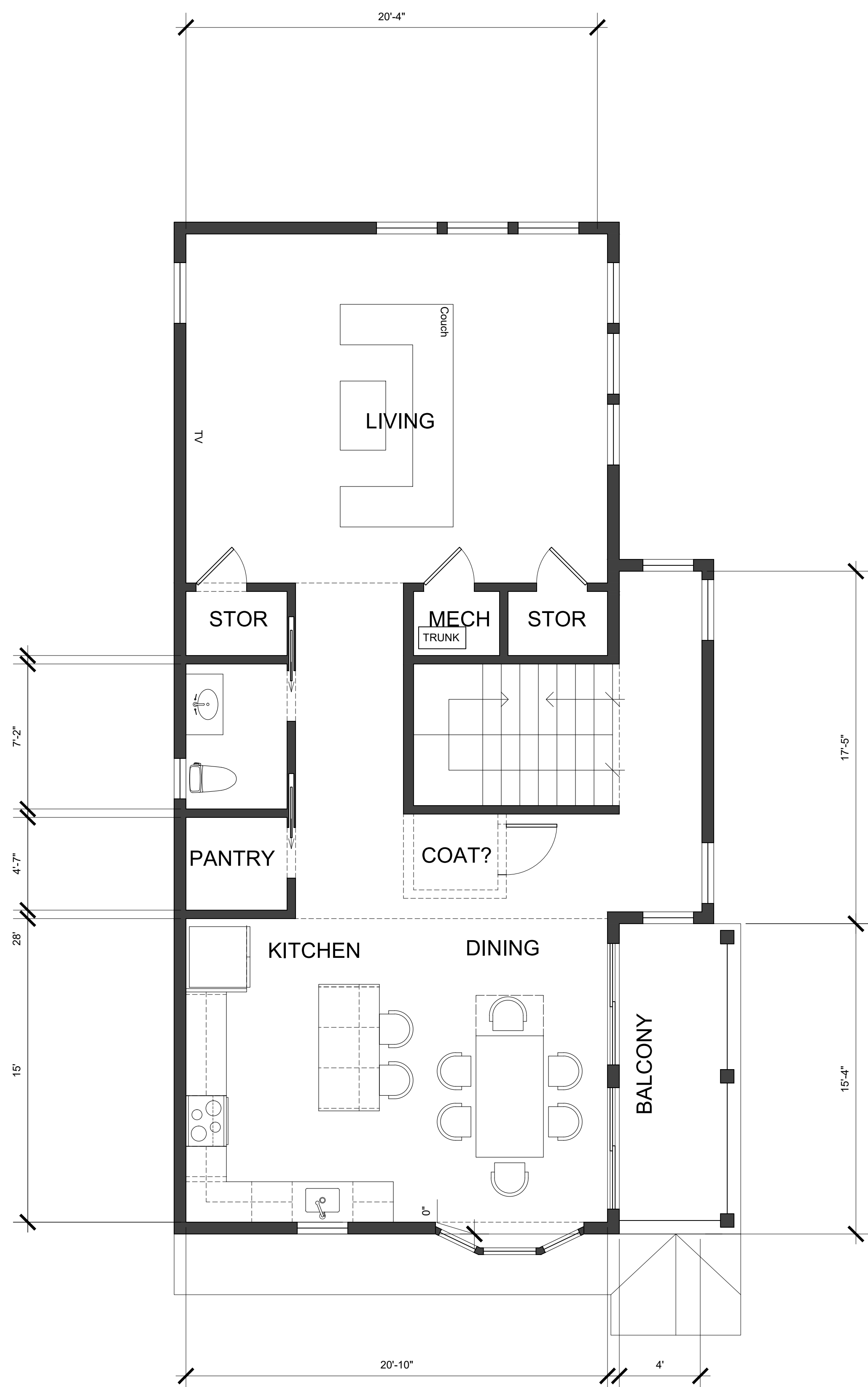
4 1 2 . 7 2 0 . 0 4 2 4
DavidJManiet@gmail.com

Name / Project Address
Leon Residence
1114 Forest Road
Lakewood, Ohio 44107

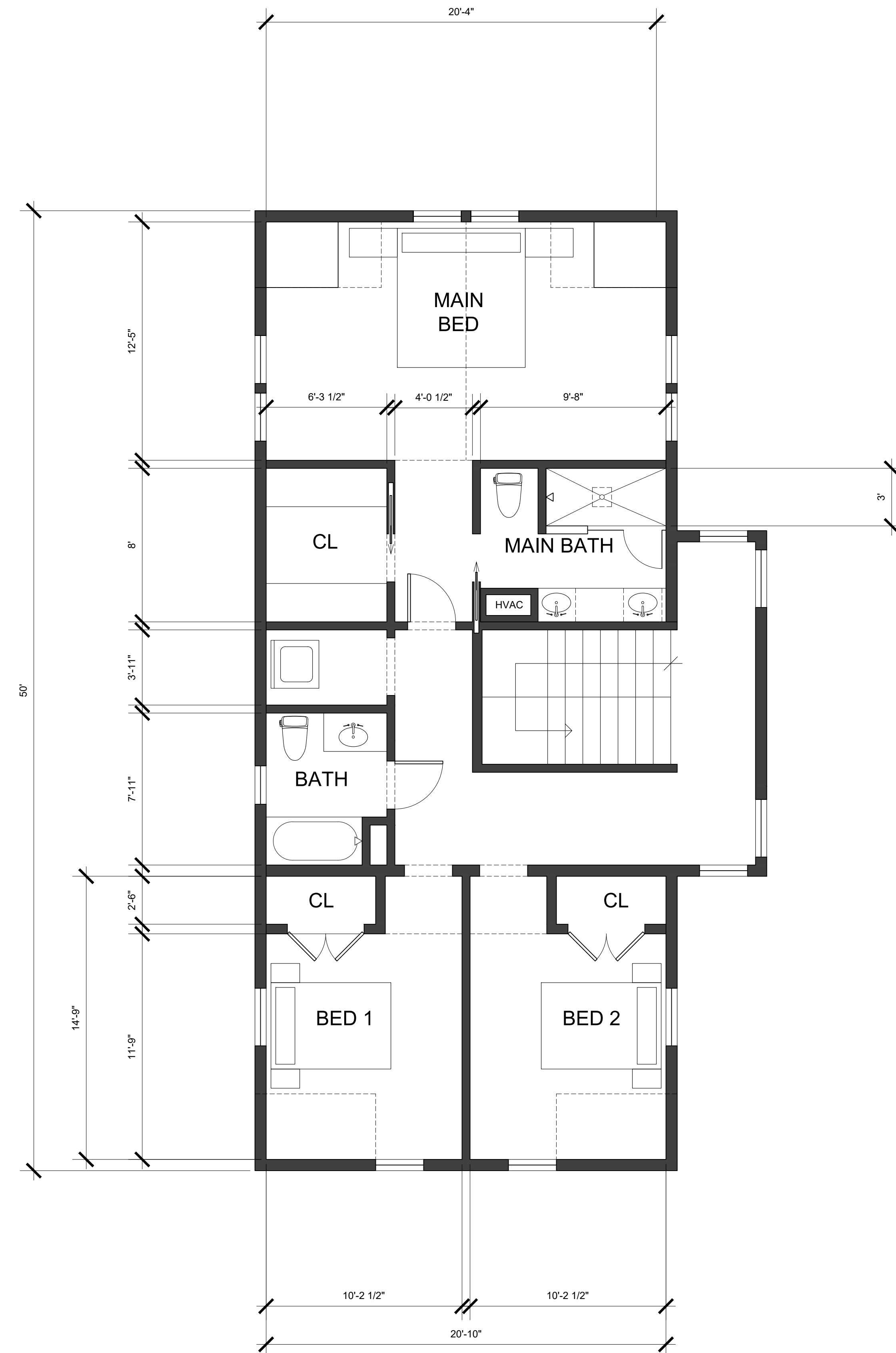
Issue for Design Phase	Sheet
Date	A1
4/25/2024	
Drawn By	
DJM	

Foundation Plan
1/2" = 1'-0"

First Floor Plan
1/2" = 1'-0"





Second Floor Plan
 $\frac{1}{2}" = 1'-0"$



Third Floor Plan
 $\frac{1}{2}" = 1'-0"$

- WALL TYPES**
- 1 EXTERIOR 2X6 WOOD STUD WALL @ 24" O.C. GYPSUM INTERIOR.
 - 2 INTERIOR 2X6 WOOD STUD WALL @ 16" O.C. GYPSUM BOARD FINISH
 - 3 INTERIOR 2X4 WOOD STUD WALL @ 16" O.C. GYPSUM BOARD FINISH

NOTE: USE GREEN BOARD GYPSUM IN BATHROOMS, LAUNDRY ROOM, AND KITCHEN

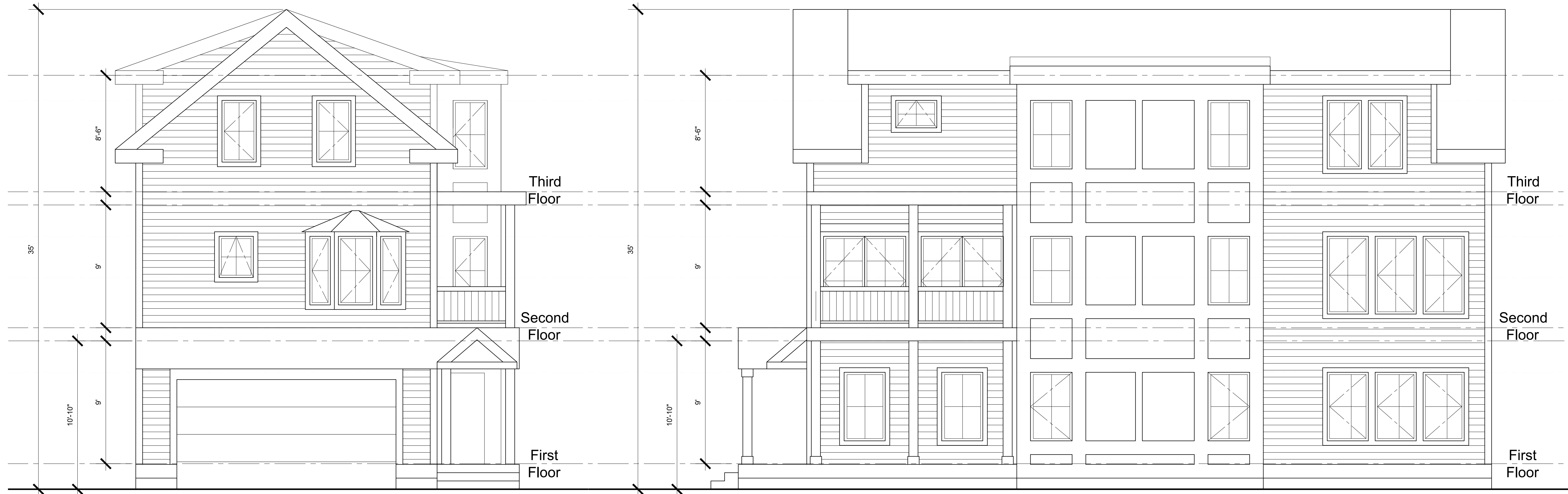
- WALL LEGEND**
-  NEW STUD WALL
 -  FOUNDATION WALL



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 DavidJManiet@gmail.com

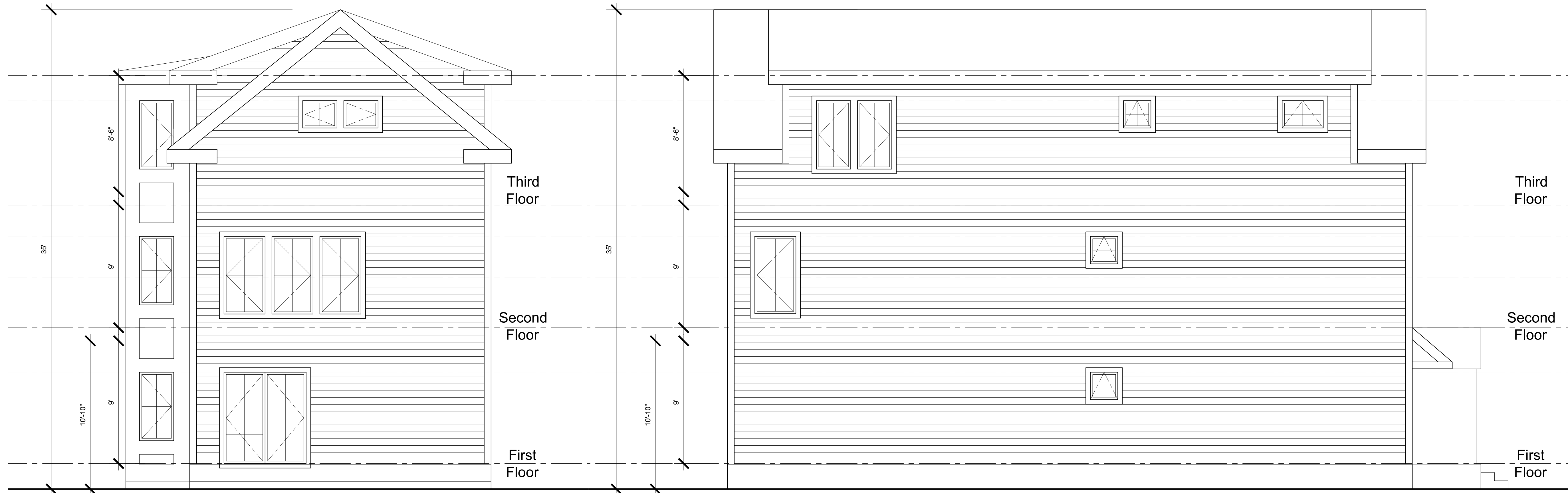
Name / Project Address
 Leon Residence
 1114 Forest Road
 Lakewood, Ohio 44107

Issue for Design Phase	Sheet
Date	A2
4/25/2024	
Drawn By	
DJM	



Front Elevation
 $\frac{1}{2}'' = 1'-0''$

North (Clifton) Elevation
 $\frac{1}{2}'' = 1'-0''$





Rear Elevation
 $\frac{1}{2}'' = 1'-0''$

South (Neighbor) Elevation
 $\frac{1}{2}'' = 1'-0''$

- WALL TYPES**
- 1 EXTERIOR 2X6 WOOD STUD WALL @ 24" O.C. GYPSUM INTERIOR.
 - 2 INTERIOR 2X6 WOOD STUD WALL @ 16" O.C. GYPSUM BOARD FINISH
 - 3 INTERIOR 2X4 WOOD STUD WALL @ 16" O.C. GYPSUM BOARD FINISH

NOTE: USE GREEN BOARD GYPSUM IN BATHROOMS, LAUNDRY ROOM, AND KITCHEN

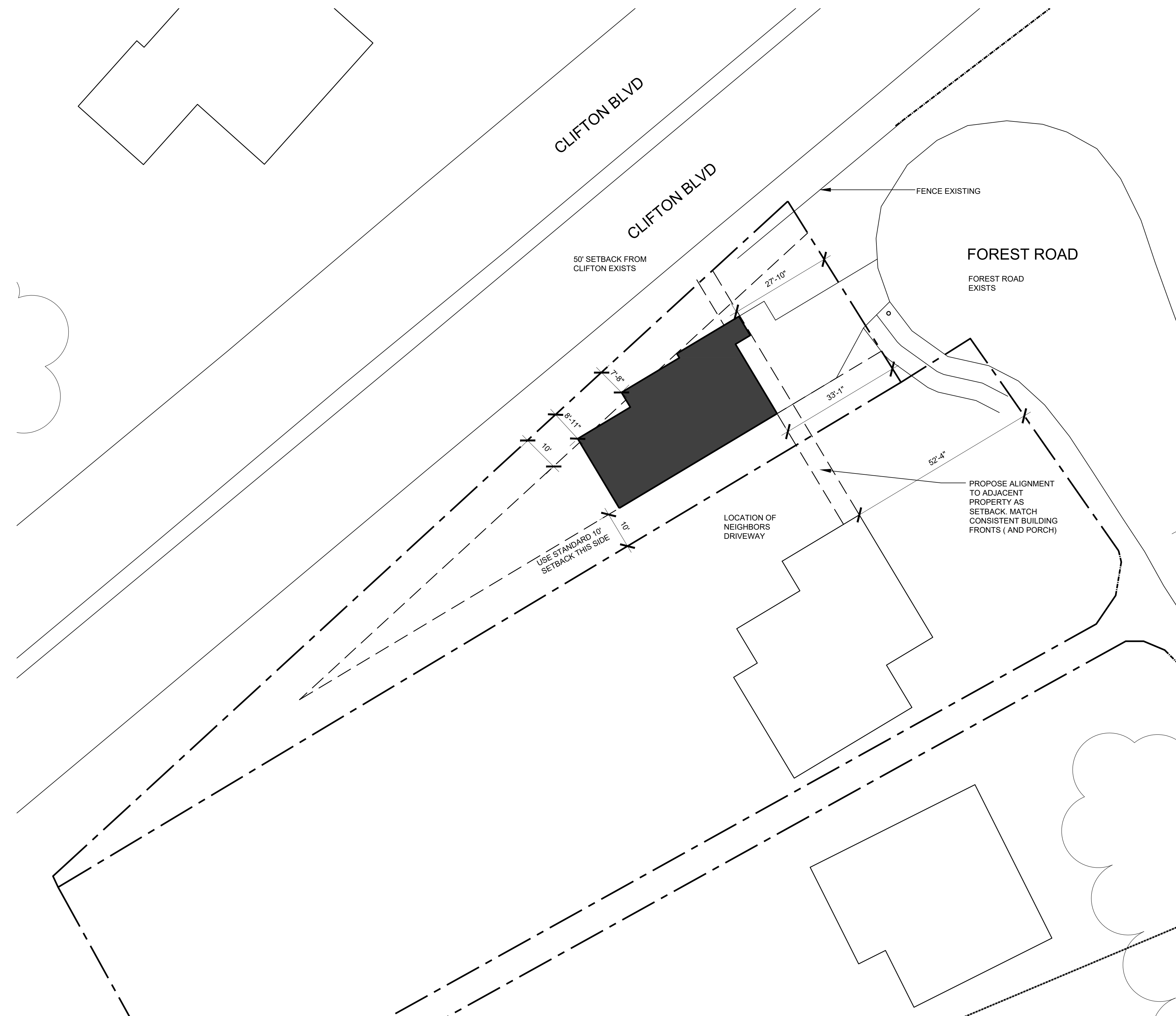
- WALL LEGEND**
-  NEW STUD WALL
 -  FOUNDATION WALL

MA
MANIET
 ARCHITECTS

4 1 2 . 7 2 0 . 0 4 2 4
 DavidJManiet@gmail.com

Name / Project Address
Leon Residence
 1114 Forest Road
 Lakewood, Ohio 44107

Issue for Design Phase	Sheet
Date	A3
4/25/2024	
Drawn By	
DJM	



Proposed Site Plan
 1/8" = 1'-0"



Photo of Site from Turn Around




Photo of Site West Corner



Photo looking South from Turn Around

Drawing Index

- T1 Project Data
Code Data
General Notes
Location Map
- C1 Schematic Site plan
C- Site plan with Septic by Others
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- A3 Second Floor Plan
- A4 Roof Plan
- A5 Exterior Elevations
- A6 Exterior Elevations
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- A8 Timber Fram Diagrams
- A9 Wall Section at Kitchen Lower
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- A11 Wall Section at Bedroom
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Door and Window Schedules
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- E6 Second Floor Lighting Plan
- E7 Second Floor Power Plan
- P1 Plumbing Notes
- P2 Fixture Schedule and Riser Diagram
- M- Mechanical Plans by Others



4 1 2 . 7 2 0 . 0 4 2 4
 DavidJManiet@gmail.com

Name / Project Address
Leon Residence
 1114 Forest Road
 Lakewood, Ohio 44107

Issue for Design Phase	Sheet
Date	C1
4/25/2024	
Drawn By	
DJM	



BOARD OF ZONING APPEALS

12650 Detroit Avenue • 44107 • (216) 529-6630 • FAX (216) 529-5907
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Application Cover Page

Docket No.: 05-10-24

Reference No.: BZA24-000018

Applicant Name: David Maniet, Maniet Architects

Project Address: 14414 Detroit Ave.

Project Name: The Marlowe Building

Proposal: A partially covered rooftop deck. The project was approved by the Architectural Board of Review at its April 11, 2024, meeting. The property is located in the C2, Commercial Retail District.



David Maniet <djmoneit@gmail.com>

Authorized Agent for ABR

Jim Miketo <jim@forestcityshuffle.com>
To: David Maniet <davidjmaniet@gmail.com>

Wed, Feb 28, 2024 at 2:17 PM

David,

Please use this email as approval for you to act as my authorized agent for [14414 Detroit Ave.](#)

Thanks
Jim

--
Jim Miketo
Forest City Shuffleboard Arena and Bar
(440) 666-5836
www.forestcityshuffle.com



REPUBLIC
SERVICES

440-250-5101

Detroit







Project Data

1. JURISDICTION OF PROJECT: CITY OF LAKEWOOD, OHIO
2. PROJECT: THE MARLOWE BUILDING
14414 DETROIT AVENUE
3. BUILDING OWNER'S NAME: JYD LLC
CONTACT PERSON: JIM MIKETO
MAILING ADDRESS: 13367 MADISON AVE
LAKEWOOD, OHIO 44107
PHONE: 440.666.5836
E-MAIL: JIM@FORESTCITYSHUFFLE.COM
4. PROJECT ADDRESS: 14414 DETROIT AVENUE
PROPERTY ID NUMBER: 312-20-039/038
GENERAL CONTRACTOR: CHEROKEE CONSTRUCTION SERVICES LLC
CONTACT PERSON: AARON KUHN
MAILING ADDRESS: 4100 COUNTY LINE TURNPIKE RD
SOUTHINGTON, OHIO 44470
PHONE: 330-282-2790
E-MAIL: KUHN59548@GMAIL.COM
REG. #
5. ENGINEERING: KARPINSKI ENGINEERING
CONTACT PERSON: EVAN HAMMERSMITH
MAILING ADDRESS: 3135 EUCLID AVE
CLEVELAND, OHIO 44115
PHONE: 1.216.391.3700
E-MAIL: EHAMMERSMITH@KARPINSKIENG.COM
6. AUTHOR OF PLANS: MANIET ARCHITECTS LLC
CONTACT PERSON: DAVID J MANIET
MAILING ADDRESS: 1315 BUNTS RD
LAKEWOOD, OHIO 44107
FAX: 412.720.0424
E-MAIL: DAVIDJMANIET@GMAIL.COM
OHIO STATE REG. NO.: 1616664
7. ZONING INFORMATION
ZONING DISTRICT: C-2 - COMMERCIAL/RETAIL
LOT SIZE: 1 - 13,155 SQFT.
2 - 5,600 SQFT.
4 - STORY
- NO CHANGE TO BUILDING FOOTPRINT
BUILDING TOTAL: 21,928 SQFT.
PER FLOOR: 5,257 SQFT. FULL FLOOR PLATE
- USE GROUP SPACES: B - OFFICE MULTI TENANT (EXISTING) (NO CHANGE)
11. TYPE OF CONSTRUCTION: IIA
FLOOR CONSTRUCTION: CONCRETE
ROOF CONSTRUCTION: CONCRETE
WALLS: MASONRY BRICK
12. DESCRIPTION OF PROJECT: RENOVATION OF EXISTING BUILDING TO UPGRADE TENANT SPACES AND COMMON AREAS
13. SCOPE OF WORK:

- NEW WINDOWS (OPERABLE) AND FACADE RESTORATION
- NEW ELECTRICAL SERVICE AND SUBMETERING FOR TENANT SPACES
- NEW MECHANICAL SYSTEMS FOR TENANT SPACES
- NEW FLOOR LAYOUT FOR IMPROVED ACCESSIBLE CIRCULATION
- RENOVATION OF BATHROOMS TO MAKE ACCESSIBLE
- EXISTING BUILDING IS MULTIPLE TENANT OFFICE SPACES
- NEW TENANT ORGANIZATION
- THIRD FLOOR AND ROOF TO NOW BE SALON TENANT
- 2ND FLOOR TO BE USED AT FUTURE OFFICE TENANT SPACES INCLUDING ONE SPACE FOR SALON TENANT
- FIRST FLOOR TO BE WHITE BOX LAYOUT FOR FUTURE BUSINESS TENANT
- BASEMENT TO BE DIVIDED TO TWO OFFICE TENANTS AND VARIOUS SPACES AS REQUIRED FOR BUILDING MAINTENANCE AND MEP NEEDS

Deferred Fire Alarm System Drawings by Others

Code Data

1. OBC 105.1 & 106.1: ENFORCEMENT: NO CONSTRUCTION WORK SHALL START ON THIS PROJECT WITHOUT THE APPROVAL AND INSPECTION OF THE RESPECTIVE CITY DEPARTMENTS PER THIS CODE SECTION. OWNER IS LIABLE FOR VIOLATION OF THIS CODE SECTION.
2. OBC 106.4 & 114.1: PLAN CONFORMITY: ALL WORK SHALL CONFORM WITHOUT CHANGE TO PROJECT PLAN DOCUMENTS AS FINALLY APPROVED BY BUILDING DEPARTMENT.
3. OBC 109: INSPECTION: ALL WORK SHALL BE PERFORMED STRICTLY PER THE PLANS AS APPROVED BY THE CITY BUILDING DEPARTMENT.
4. OBC101.4.1: ALL HEATING, VENTILATION AND AIR-CONDITIONING MATERIALS, INSTALLATION METHODS, AND MODIFICATION SHALL COMPLY WITH CHAPTER 28 OBC, OHIO MECHANICAL CODE, INTERNATIONAL FUEL GAS CODE, ASHRAE STANDARDS, SMACNA STANDARDS, EQUIPMENT'S UNDERWRITERS APPROVAL, THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS AND GOOD ENGINEERS' PRACTICES.
5. ALL ELECTRICAL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 27, OBC, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA 70, OBC APPROVED EDITION, AND IS SUBJECT TO APPROVAL OF THE LOCAL ELECTRICAL INSPECTOR OR AD ASSIGNED BY THE DIVISION OF FACTORY AND BUILDING INSPECTION.
6. OBC 101.4.2: ALL PLUMBING SHALL CONFORM TO STATE OF OHIO PLUMBING CODE, AND OBC CHAPTER 29.
7. OBC 106.3.1: ONE SET OF PLANS, WHICH HAS BEEN APPROVED SHALL BE KEPT AT THE SITE OF THE WORK AND SHALL BE AVAILABLE FOR REFERENCE BY THE BUILDING OFFICIAL AT ALL TIMES DURING WORKING HOURS WHILE SUCH WORK IS IN PROGRESS.
8. ALL INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF TABLE 803.11 INTERIOR FINISH REQUIREMENTS OF THE OBC.
9. EVERY CONTRACTOR AND SUB-CONTRACTOR IS REQUIRED TO COMPLY WITH ALL OSHA SAFETY AND HAZARD PREVENTION STANDARDS: AND SHALL BE RESPONSIBLE TO DEVELOP, IMPLEMENT AND MAINTAIN SAFETY CONDITIONS AND EDUCATIONAL PROGRAMS TAILORED TO FIT EACH CONTRACTOR'S PARTICULAR TRADE (NOT ONLY FOR ITS' OWN EMPLOYEES, BUT FOR VISITORS AS WELL.)
10. INSTALL FIRE EXTINGUISHERS PER LOCAL FIRE DEPARTMENT REQUIREMENTS.
11. FIRE DEPARTMENT ACCESS SHALL BE MAINTAINED AT ALL TIMES TO THE SITE AND FACILITY DURING ALL PHASES OF CONSTRUCTION AS PER ALL OF OFC RULE 5 SECTION 503.

Occupant Load Calculations

PER OBC TABLE 1004.1.2

USE	ALLOWABLE AREA PER OCCUPANT	AREA	OCCUPANTS
BUSINESS - LRLV	100 S.F.	3,662 S.F.	37
ACC STORE - LRLV	300 S.F.	740 S.F.	4
BUSINESS - 1ST	100 S.F.	4,240 S.F.	42
ACC STORE - 1ST	300 S.F.	140 S.F.	1
BUSINESS - 2ND	100 S.F.	4,380 S.F.	44
BUSINESS - 3RD	100 S.F.	4,380 S.F.	44
BUSINESS - ROOF	100 S.F.	1695 S.F.	17
ACC STORE - ROOF	300 S.F.	150 S.F.	1
			TOTAL OCCUPANTS
			190

GROSS CALCULATIONS - SEE LIFE SAFETY PLANS FOR SPACE BY SPACE CALCULATION

Egress Calculations

PER OBC 1006

	CODE	REQUIRED	PROVIDED
NUMBER OF EXITS	2 PER STRY	2	2
MAXIMUM TRAVEL DISTANCE TO EXIT	200'	200'	100'
MINIMUM EGRESS WIDTH STAIRWAYS	190 X 3 = 57"	63"	36"
OTHER COMPONENTS	190 X 2 = 11"	38"	36"

*EXISTING STAIRWAYS AND EXIT COMPONENTS TO BE REUSED FROM EXISTING BUILDING.

Plumbing Fixture Calculations

PER OBC TABLE 2902.1

FIXTURE	CODE	REQUIRED	PROVIDED
WATER CLOSET			
MALE	1 PER 50	2	3
FEMALE		2	3
MIXED			3
LAVATORY			
MALE	1 PER 80	2	3
FEMALE		2	3
MIXED			3
SERVICE SINK	1	1	4
DRINKING FOUNTAIN	1 PER 100	3	*

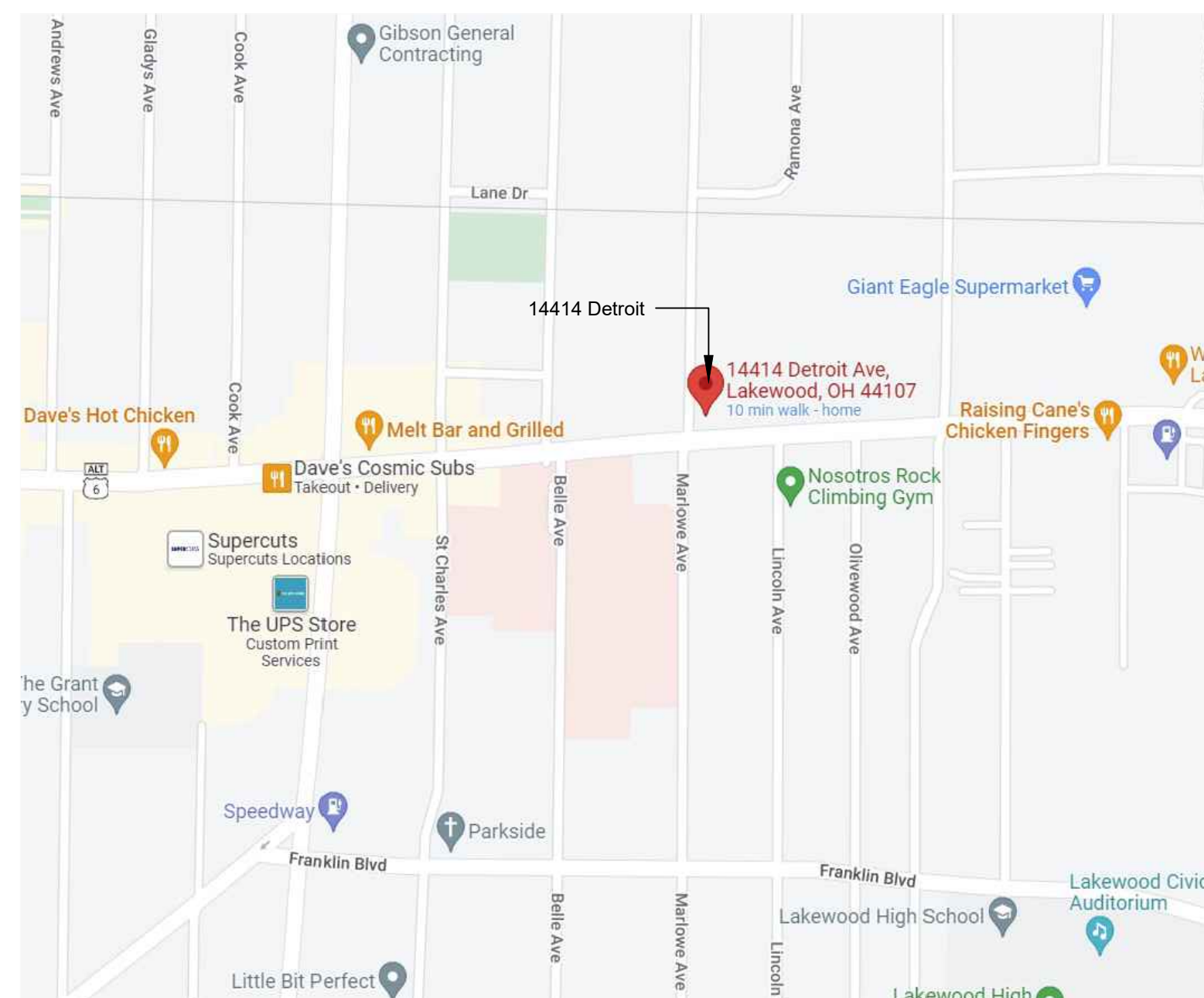
**OPC 410.4 SUBSTITUTION - WHERE WATER DISPENSERS ARE PROVIDED, DRINKING FOUNTAINS SHALL NOT BE REQUIRED. TENANT SPACES PROVIDED WITH SINKS FOR WATER

General Notes

- GN1. THE LATEST EDITION OF AIA DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION IS CONSIDERED TO BE PART OF THIS SET OF DRAWINGS.
- GN2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE PROJECT AND THE CONTRACT DOCUMENTS. IF THE CONTRACTOR FEELS THERE IS ANY AMBIGUITY IN THE CONTRACT DOCUMENTS, IT IS HIS RESPONSIBILITY TO HAVE SUCH ISSUES CLARIFIED PRIOR TO SUBMITTING HIS PROPOSAL.
- GN3. COMMENCEMENT OF WORK BY THE CONTRACTOR SHALL INDICATE THAT THE EXISTING CONDITIONS IN THE FIELD ARE SUCH THAT THE TOTAL INTENT OF THE DRAWINGS CAN BE MET.
- GN4. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND THE REQUIREMENTS OF GOVERNING AUTHORITIES.
- GN5. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED TESTS, INSPECTIONS AND PERMITS AS REQUIRED FOR THIS PROJECT.
- GN6. ALL WORK SHALL BE GUARANTEED TO BE INSTALLED FREE OF DEFECT IN MATERIAL, WORKMANSHIP AND OPERATION FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE, UNLESS A LONGER PERIOD IS STIPULATED. CONTRACTOR SHALL REPAIR OR REPLACE AT NO EXTRA COST, ANY MATERIAL, CONSTRUCTION, OR EQUIPMENT THAT IS DEFECTIVE.
- GN7. CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THIS PROJECT AS DESCRIBED IN THE CONTRACT DOCUMENTS.
- GN8. MATERIALS PROVIDED AND COMPLETED WORK WHICH, IN THE JUDGMENT OF THE ARCHITECT, IS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS DESIGN INTENT SHALL BE REPAIRED OR REPLACED AS DIRECTED, WITH NO ADDITIONAL COMPENSATION.
- GN9. UNLESS OTHERWISE SPECIFIED, WHENEVER AN ALLOWANCE ITEM IS INCLUDED, THE ALLOWANCE AMOUNT IS FOR THE MATERIAL ONLY. ALL OTHER CHARGES, INCLUDING INCIDENTAL HARDWARE, FASTENERS, ACCESSORIES, AND ETC., AS WELL AS LABOR, DELIVERY AND TAXES ARE TO BE INCLUDED IN THE BASE BID.
- GN10. PRIOR TO FINAL PAYMENT, CONTRACTOR SHALL TURN OVER TO THE ARCHITECT ALL GUARANTEES, WARRANTIES, PRODUCT INFORMATION, CLEANING REQUIREMENTS, PRODUCT RESTRICTIONS, ETC. FOR ALL MATERIALS, APPLIANCES, FIXTURES, AND SUCH USED ON THIS PROJECT. TO BE INCLUDED ARE ITEM SUCH AS FAUCETS, FURNACES, COMPRESSORS, BUILDING MATERIALS, HARDWARE, DOORS, WOOD, PAINT, ETC.
- GN11. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL SUBMIT A WORK PLAN AND SCHEDULE.
- GN12. CONTRACTOR IS TO PROVIDE DUST BARRIERS AND TAKE OTHER PROTECTIVE MEASURES AS REQUIRED TO CONTAIN AND ELIMINATE DAMAGES, DUST, AND DEBRIS TO AREAS WHERE LITTLE OR NO WORK IS TAKING PLACE. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND REPAIRING TO ORIGINAL CONDITION ANY SUCH DAMAGE OR REMOVAL OF DEBRIS.
- GN13. ANY DISCREPANCY OR CONFLICTS IN DIMENSIONS OR EXISTING FIELD CONDITIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK. CONTRACTOR NOT TO SCALE DRAWINGS.
- GN14. REFER TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS FOR COORDINATION OF WORK. IN CASE OF DISCREPANCIES, THE LOCATIONS SHOWN ON THE ARCHITECTURAL PLANS SHALL PREVAIL UNLESS PERMITTED OTHERWISE BY ARCHITECT.
- GN15. ALL DIMENSIONS ARE TO THE FINISHED FACE WALL, UNLESS OTHERWISE NOTED.
- GN16. UNLESS OTHERWISE NOTED, ALL EXPOSED EXISTING SURFACES SHALL BE PATCHED TO MATCH ADJACENT FINISHES WHEREVER EXISTING PARTITIONS, DOORS, OR OTHER BUILDING ELEMENTS HAVE BEEN REMOVED.
- GN17. UNLESS OTHERWISE NOTED, ALL EXISTING SURFACES, WHICH WILL REMAIN EXPOSED AND WHICH HAVE TO BE DISTURBED TO INSTALL NEW EQUIPMENT, CONDUIT, PIPES, ETC., SHALL BE REPAIRED TO MATCH THE EXISTING FINISHES BY THE CONTRACTOR HAVING CAUSED THE CUTTING. THE WORK, HOWEVER, SHALL BE SUBLET TO AND COORDINATED BY THE GENERAL CONTRACTOR.
- GN18. WHERE EXISTING PARTITIONS, CEILING TILE, OR OTHER ITEMS HAVE TO BE REMOVED USE CONSIDERABLE CARE NOT TO DAMAGE ADJACENT WALL AND CEILING SURFACES WHICH ARE TO REMAIN IN PLACE.
- GN19. PROTECT ALLEXISTING MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT WHICH IS TO REMAIN IN PLACE.
- GN20. IF THE CONTRACTOR SUSPECTS THE PRESENCE OF ASBESTOS, HE SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL ASBESTOS ABATEMENT HAS BEEN IMPLEMENTED, IF FOUND.
- GN21. THE GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO PROVIDE ALL THAT MUST BE COVERED WITHIN PROJECT. (I.E., ELECTRICAL WIRING, ELEVATOR, ETC.) THIS COORDINATION IS CRITICAL.
- GN22. ALL DIMENSIONS SHALL BE FIELD CHECKED, SPECIFICALLY FOR THE SELECTION AND MANUFACTURE OF CASEWORK, WINDOWS, FLOOR FINISHES, ETC.



Existing Exterior Photo



Location Map
Not to Scale

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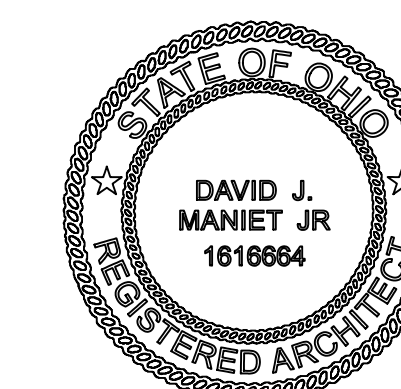
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Date 4/11/2024

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Sheet

T1



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License # 1616664
Exp. 12/31/2025

General Notes Continued

GN22. ALL DIMENSIONS SHALL BE FIELD CHECKED, SPECIFICALLY FOR THE SELECTION AND MANUFACTURE OF CASEWORK, WINDOWS, FLOOR FINISHES, ETC.

GN23. CONTRACTOR SHALL INSTALL ALL PRODUCTS AND FINISH MATERIALS PER MANUFACTURER'S INSTRUCTIONS. IF THE ARCHITECT'S DRAWINGS AND SPECIFICATIONS ARE DIFFERENT THAN THE MANUFACTURER'S THEN THE CONTRACTOR SHALL CONTACT THE ARCHITECT BEFORE PROCEEDING TO REVIEW THE METHOD OF INSTALLATION.

GN24. ALL GAPS OR PENETRATIONS IN RATED WALLS SHALL BE FIRE CAULKED AND COMPLY WITH ALL REQUIREMENTS OF OBC SECTIONS 713.

GN25. CONTRACTOR TO PHOTOGRAPH MECHANICAL, ELECTRICAL, AND PLUMBING ROUGH-INS AND SEND COPIES TO ARCHITECT PRIOR TO INSTALLING FINISH MATERIALS.

GN26. ONE WEEK BEFORE COMPLETION OF JOB, CONTRACTOR SHALL ORGANIZE A WALK-THROUGH EXAMINATION OF THE PROJECT WITH THE ARCHITECT, OWNER AND CONTRACTOR. AT THIS MEETING, CONTRACTOR SHALL DEMONSTRATE USE OF ALL ITEMS (LOCKS, TOILETS, HVAC SYSTEM, LIGHTS, ETC.) INSTALLED, AND A COMPLETE PUNCH LIST WILL BE DEVELOPED BY THE ABOVE PARTIES.

GN27. FINAL PAYMENT WILL NOT BE APPROVED WITHOUT:
 - ALL WARRANTIES/MANUALS/INSTALLATION INSTRUCTIONS FOR ALL INSTALLED FIXTURES AND EQUIPMENT/APPLIANCES SUPPLIED TO OWNER.
 - OWNER RECEIVED LIEN WAIVER FROM CONTRACTOR.

GN28. HANDRAILS AND GUARDS (PER OBC SEC. 1607.8) HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED TO RESIST A LOAD OF 50 PLF APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS THE STRUCTURE. HANDRAIL ASSEMBLIES AND GUARDS SHALL BE ABLE TO RESIST A SINGLE CONCENTRATED LOAD OF 200 POUNDS, APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP, AND HAVE ATTACHMENT DEVICES AND SUPPORTING STRUCTURE TO TRANSFER THIS LOADING TO APPROPRIATE STRUCTURAL ELEMENTS OF THE BUILDING.

GN29. GRAB BARS, (PER OBC SEC 1607.7) GRAB BARS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 POUNDS APPLIED IN ANY DIRECTIONS AT ANY POINT.

GN30. ICC A117.1 COMPLIANT SIGNAGE NOTES:
 LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2" PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSIONS OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.

 THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGG-SHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

 WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISH FLOOR TO THE BASELINE OF THE BRAILLE AND THE BASELINE OF THE HIGHEST TACTILE CHARACTER. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3' OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR BY PROVIDING AN 18"X18" CLEAR FLOOR SPACE CENTERED ON THE SIGN, BEYOND THE SWING OF THE DOOR.

 FACILITIES AND ELEMENTS REQUIRED TO BE IDENTIFIED AS ACCESSIBLE SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

 TACTILE SIGNS STATING "EXIT" SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE

GN31. FRAMING NOTES

1. DBL. 2X12 HEADERS @ ALL OPENINGS UNLESS NOTED OTHERWISE.
2. SOLID BLOCKING AND / OR MASONRY @ ALL BEAM BEARING LOCATIONS.
3. DBL. ALL FL. JOISTS BELOW PARTITIONS.
4. STL. FLITCH PL. REQUIRED @ ALL HEADERS W/ 12'-0" SPAN AND OVER.
5. ALL PASSAGE WAYS BETWEEN ROOMS SHALL BE CASED OPENINGS UNLESS NOTED OTHERWISE.

GN32. COLD FORMED METAL FRAMING

- DESIGN OF METAL STUD FRAMING SHOWN IS BASED ON CSI TYPE (1 5/8") FLANGE STUDS WITH DEITRICH INDUSTRIES SECTION PROPERTIES AND ALLOWABLE RESISTANCE MOMENT CAPACITY. ALTERNATE MANUFACTURERS' FRAMING SIDE SHALL MEET THE MINIMUM SECTION PROPERTIES AND ALLOWABLE RESISTING MOMENT CAPACITY OF THE MEMBERS INDICATED ON THE DESIGN DRAWINGS. ADDITIONAL COSTS FOR AN INCREASE IN STUD SIZE OR GAUGE IS PROHIBITED.
- ALL COLD-FORMED FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE COLD FORMED STEEL DESIGN MANUAL AS REFERENCED BY THE 2011 OBC.
- ALL FRAMING MEMBERS 16 GAUGE AND HEAVIER SHALL BE FORMED FROM STEEL WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
- ALL FRAMING SHALL BE GALVANIZED.
- ALL CONNECTIONS SHALL BE SCREWED OR WELDED. POWER FASTENERS ARE NOT ACCEPTABLE FOR ANY STRUCTURAL APPLICATIONS.
- ALL WELDS SHALL BE TOUCHED UP WITH ZINC-RICH PAINT.

GN33. GENERAL ROOFING NOTES

- MINIMUM SLOPES SHALL BE 1/4" PER FOOT.
- ROOF EDGE AT CHIMNEYS AND INTERSECTING WALLS SHALL BE AT A CONSTANT HIGH POINT.
- PROVIDE POSITIVE DRAINAGE AWAY FROM ALL SKYLIGHTS, ROOF ELEVATION BREAKS, PARAPETS, WALLS, AND ANY ROOF PENETRATIONS. PROVIDE FLASHING AT THESE LOCATIONS.
- REVIEW ALL ROOF DRAINAGE SIZES AND LOCATIONS WITH ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

GN34. MASONRY

- CONCRETE MASONRY UNITS ASTM C90, TYPE 1 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI, EACH UNIT, NET CROSS-SECTIONAL AREA.
- MORTAR ASTM C270, TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI IN 28 DAYS.
- GROUT FILL F'C=2500PSI @ 28 DAYS, PEA GRAVEL.
- TEMPORARILY BRACE ALL MASONRY WALLS TO PROVIDE STABILITY DURING CONSTRUCTION UNTIL THE DESIGNED STRUCTURE IS COMPLETE AND CAN STABILIZE THE WALLS.

GN35. GENERAL FINISH NOTES

CEILING AND WALL FINISHES SHALL CONFORM TO OBC FLAMESPREAD AND SMOKE DEVELOPMENT INDEX = CLASS C.

PROVIDE SAMPLES OF ALL FINISH MATERIALS TO BUILDING DEPARTMENT FOR REVIEW.

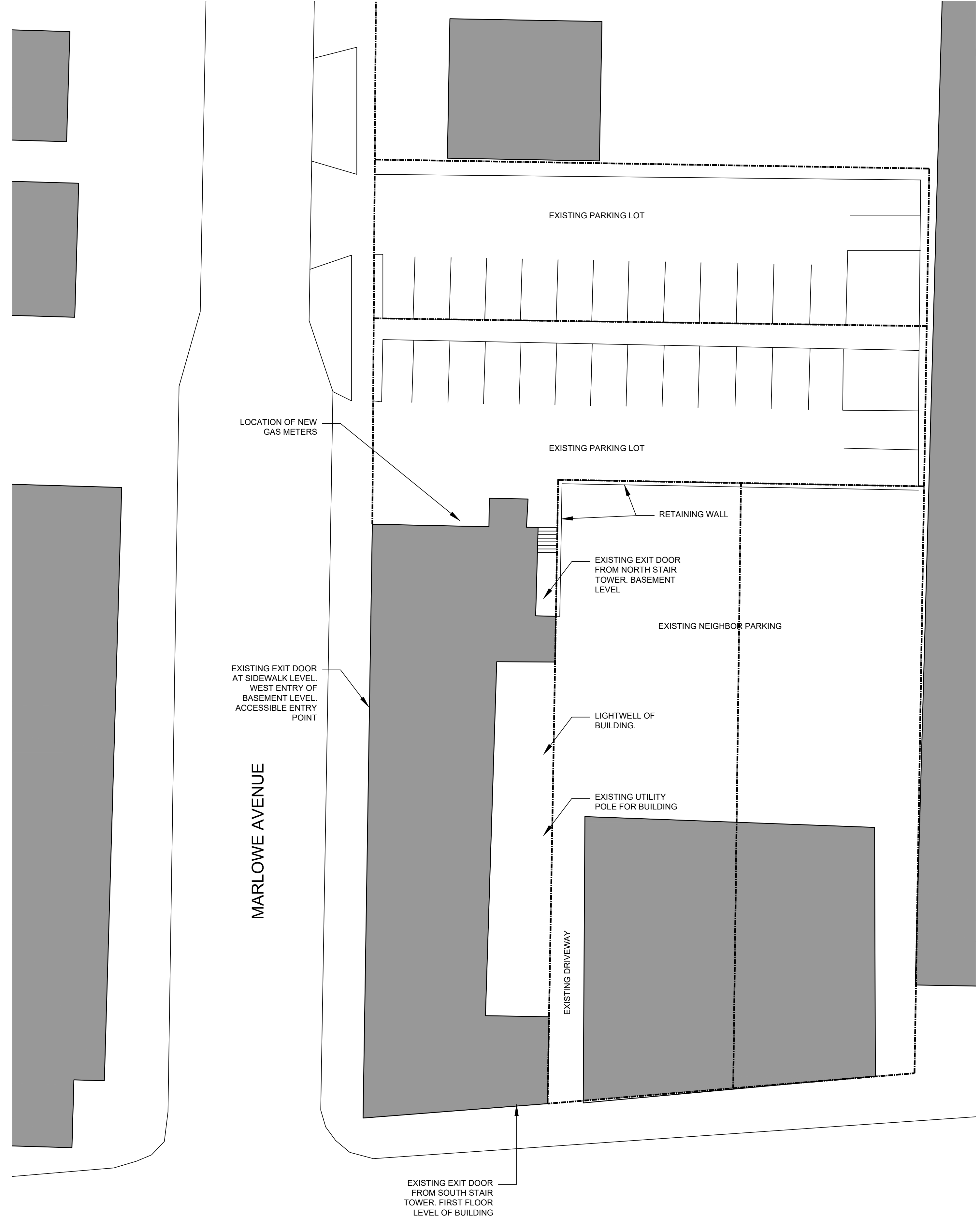
GN36. GLASS

ALL GLASS SHALL BE THERMAL-PANE LOW-E ARGON FILLED AND SAFETY GLASS WHERE REQUIRED BY CODE.

GN37. DEMOLITION

IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE DOWNS MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.

THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE EXISTING BUILDING DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT THE NEW CONSTRUCTION.



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Site Plan
 1/8" = 1'-0"

SITE PLAN NOTES:
 PROPERTY LINES LOCATED FROM CLIENT PROVIDED SURVEY AND CUYAHOGA COUNTY GIS DATA.
 NO CHANGES TO BUILDING FOOTPRINT. SITE PLAN FOR INFORMATIONAL PURPOSES ONLY



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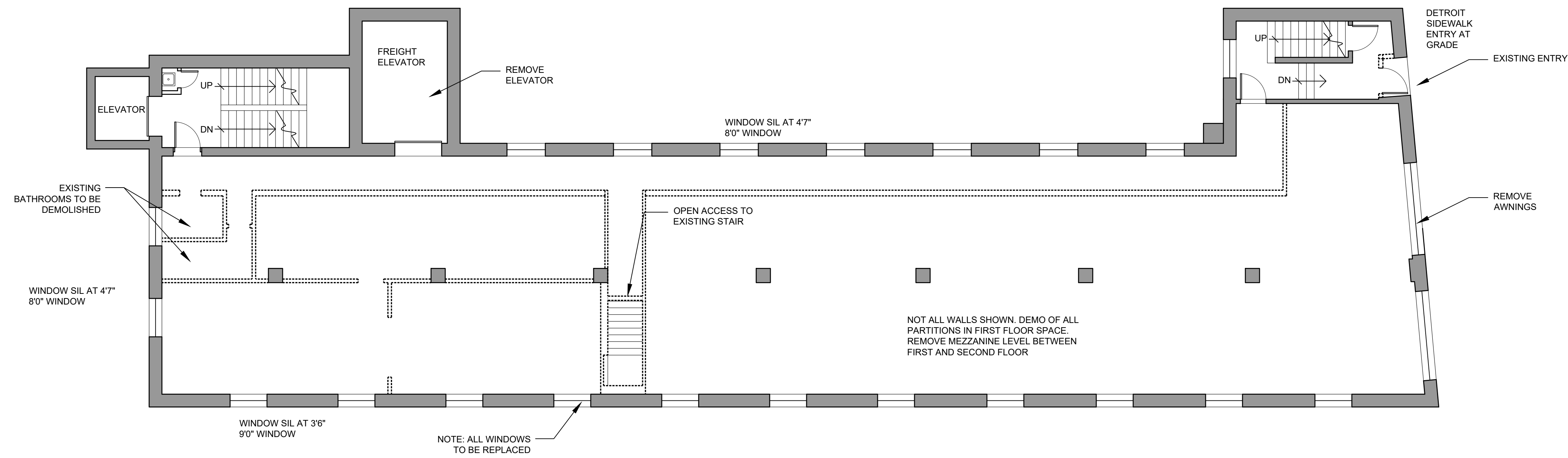
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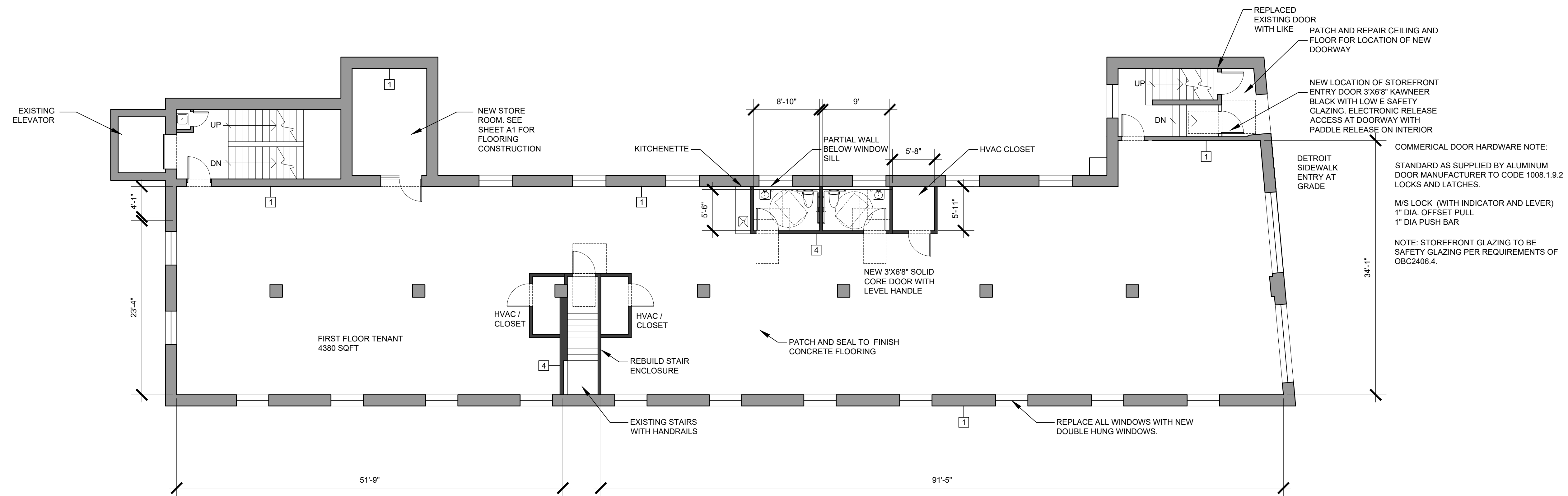
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Existing First Floor Plan
 $\frac{1}{8}'' = 1'-0''$



Proposed First Floor Plan
 $\frac{1}{8}'' = 1'-0''$

WALL TYPES

- 1 EXISTING EXTERIOR MULTI-WYTHE BRICK MASONRY WITH PLASTER FINISH
- 2 EXISTING INTERIOR CMU PARTITION
- 3 EXISTING FRAMED PARTITION WALL
- 4 NEW 1 5/8" X 3 5/8" METAL STUD WALL WITH 5/8" TYPE X GYPSUM BOARD FINISH WITH ROCKWOOL SAFE N SOUNDS BATT INSULATION BETWEEN STUDS - UL U419
- 5 NEW 1 5/8" X 6" METAL STUD WALL WITH 5/8" TYPE X GYPSUM BOARD FINISH WITH ROCKWOOL SAFE N SOUNDS BATT INSULATION BETWEEN STUDS

- USE GREEN BOARD GYPSUM IN BATHROOMS AND AT KITCHENETTE AREA.
 - ALL WALLS RUN FLOOR TO UNDERSIDE OF CONCRETE SLAB AND BEAMS UNLESS OTHERWISE NOTED

WALL LEGEND

- DEMOLITION
- █ EXISTING WALL
- █ NEW WALL

COMMERCIAL DOOR HARDWARE NOTE:
 STANDARD AS SUPPLIED BY ALUMINUM DOOR MANUFACTURER TO CODE 1008.1.9.2 LOCKS AND LATCHES.
 M/S LOCK (WITH INDICATOR AND LEVER)
 1" DIA. OFFSET PULL
 1" DIA PUSH BAR
 NOTE: STOREFRONT GLAZING TO BE SAFETY GLAZING PER REQUIREMENTS OF OBC2406.4.



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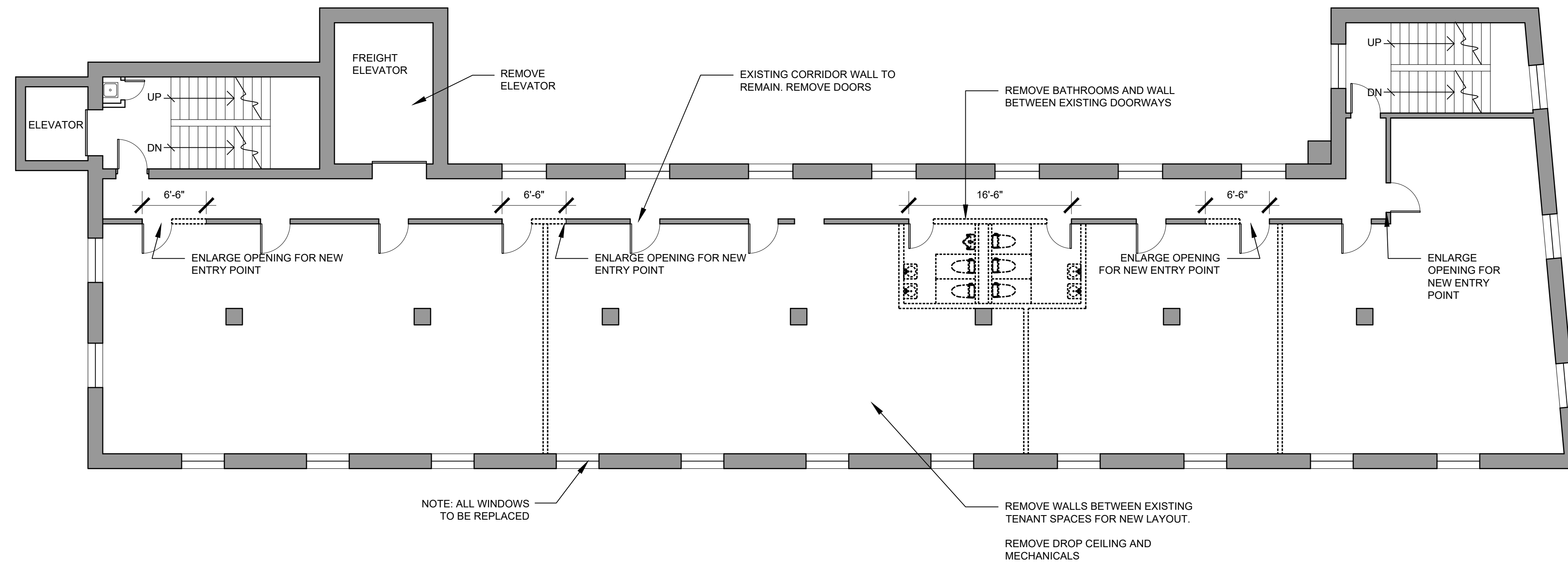
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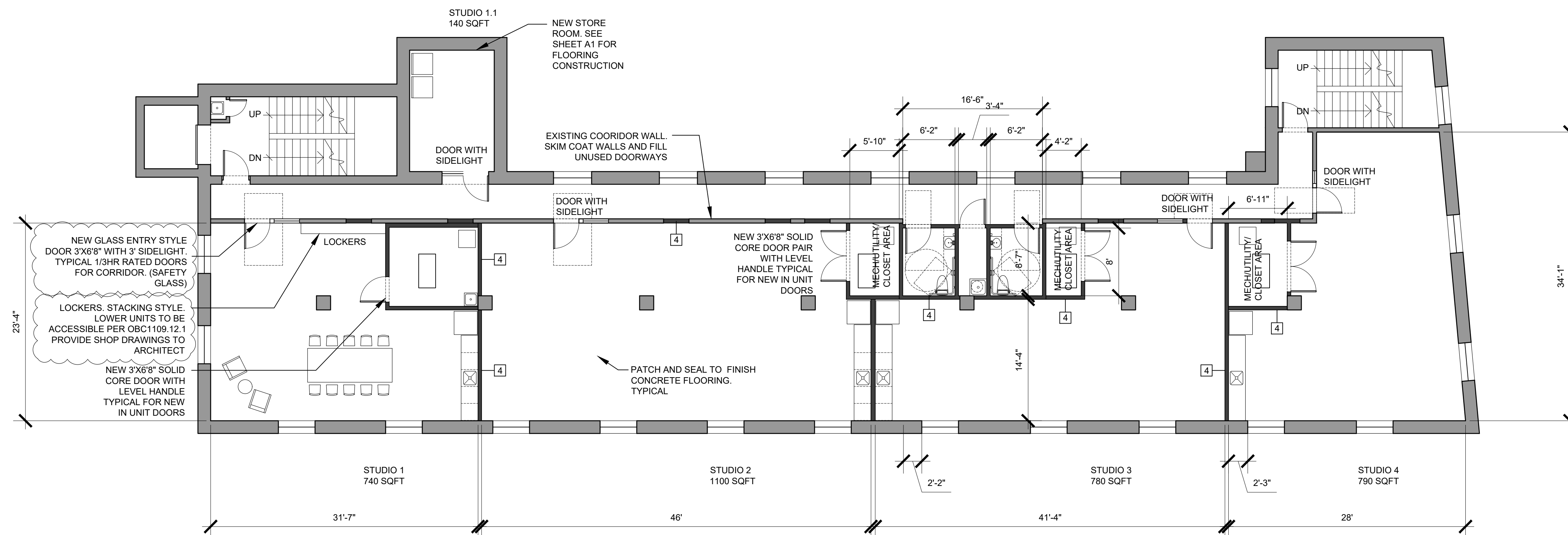
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Existing 2nd Floor Plan
 $\frac{1}{8}'' = 1'-0''$



Proposed 2nd Floor Plan
 $\frac{1}{8}'' = 1'-0''$

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WALL LEGEND

- DEMOLITION
- █ EXISTING WALL
- █ NEW WALL



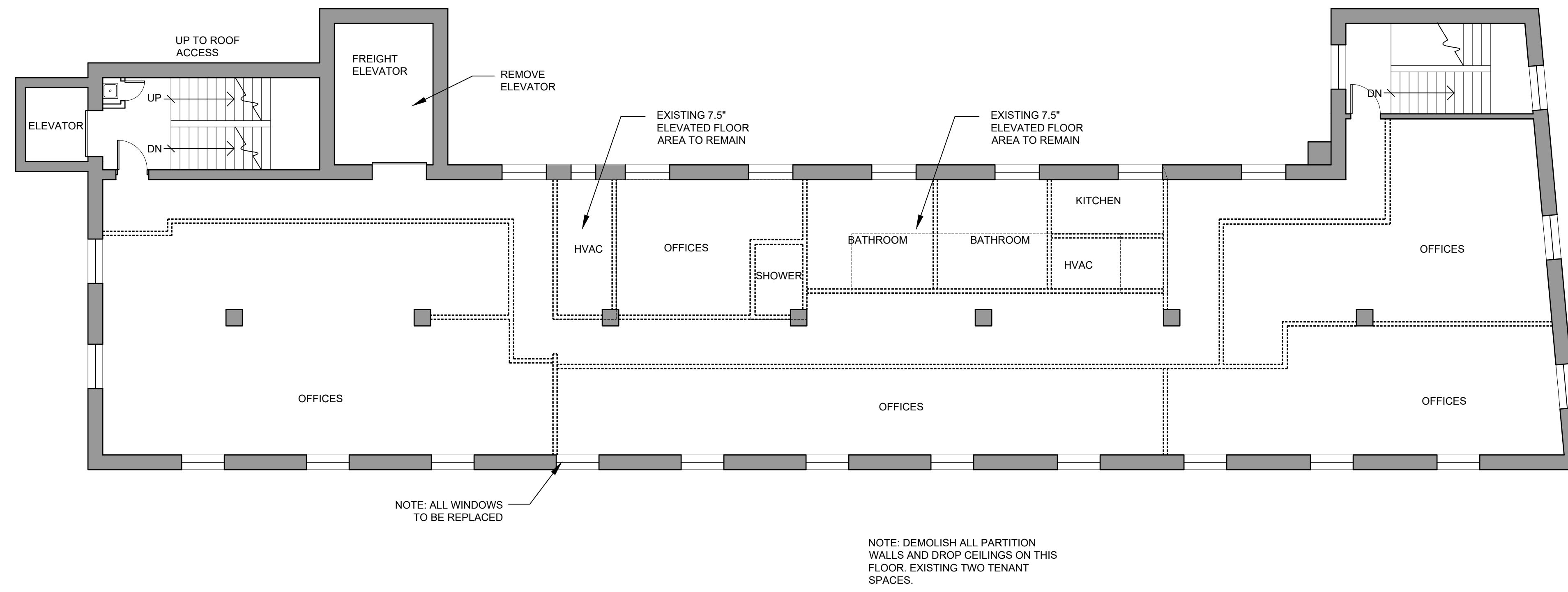
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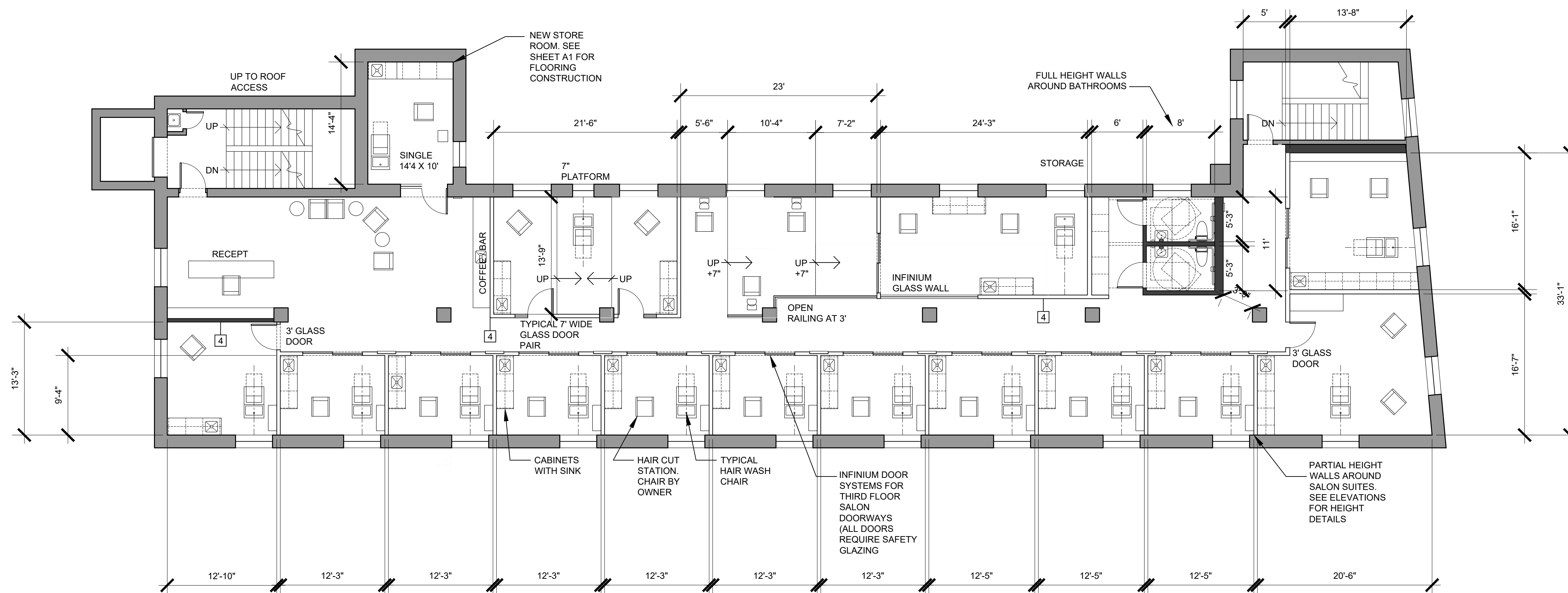
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Existing 3rd Floor Plan
 1/8" = 1'-0"



Proposed 3rd Floor Plan
 1/8" = 1'-0"

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WALL LEGEND

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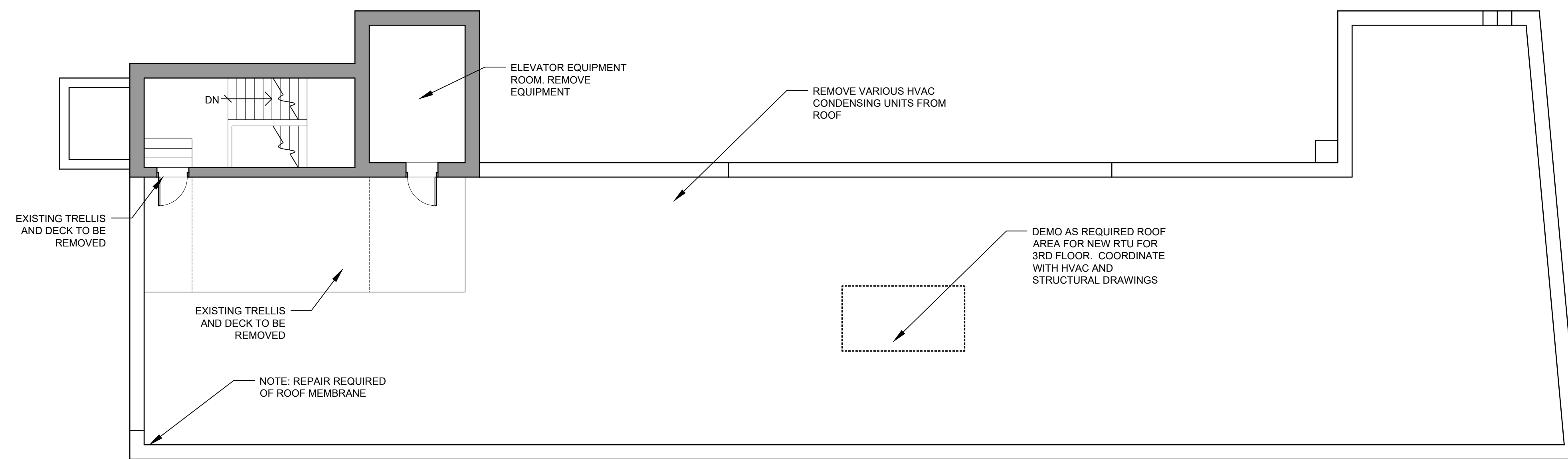
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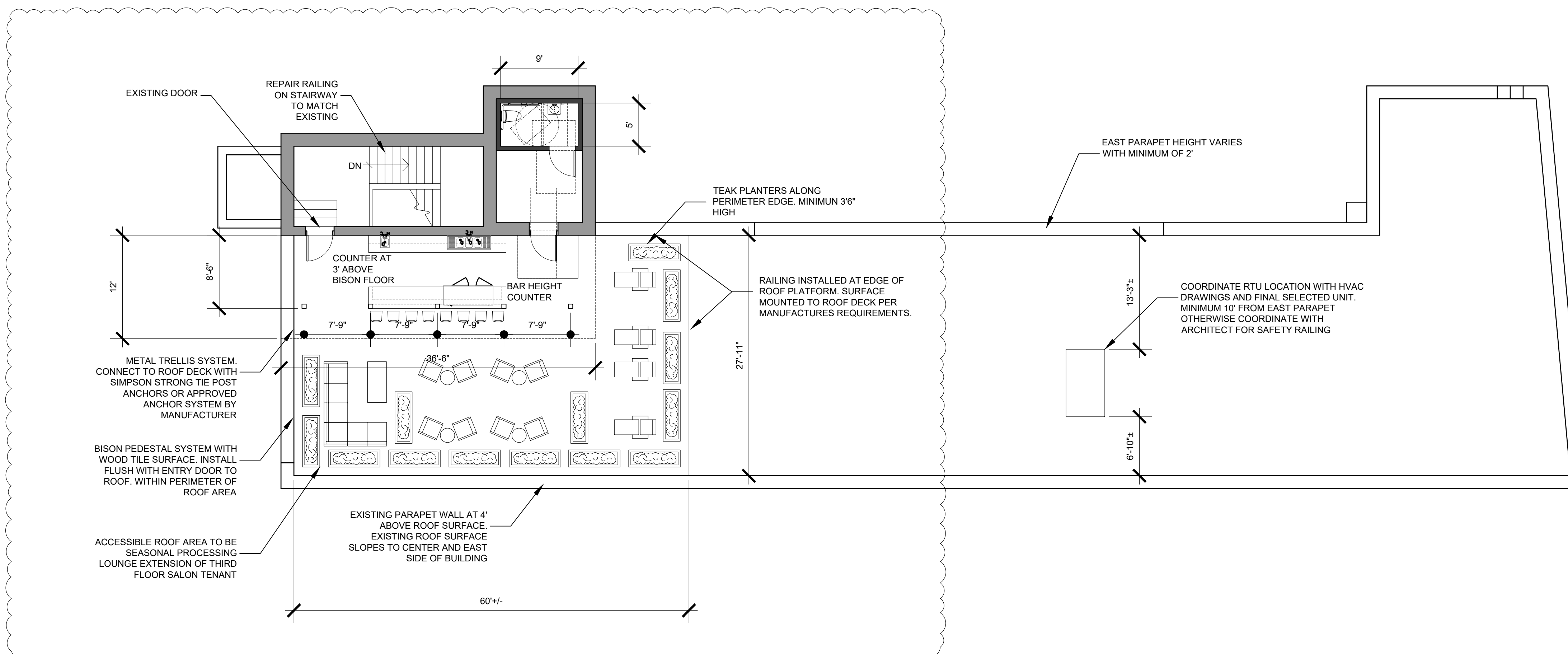
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Existing Roof Floor Plan
1/8" = 1'-0"



Proposed Roof Floor Plan
1/8" = 1'-0"

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WALL LEGEND

- DEMOLITION
- █ EXISTING WALL
- █ NEW WALL



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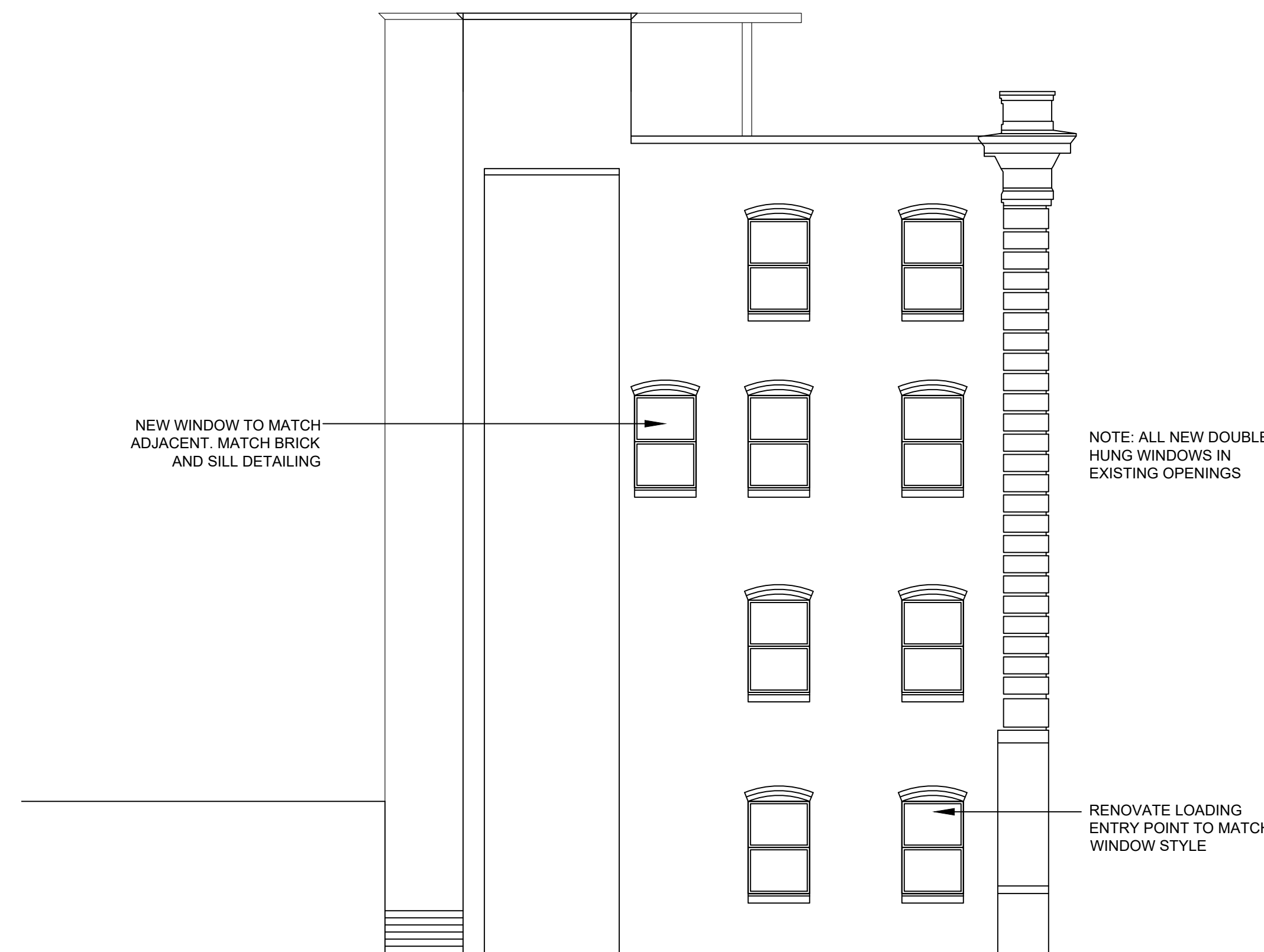
Existing North Elevation

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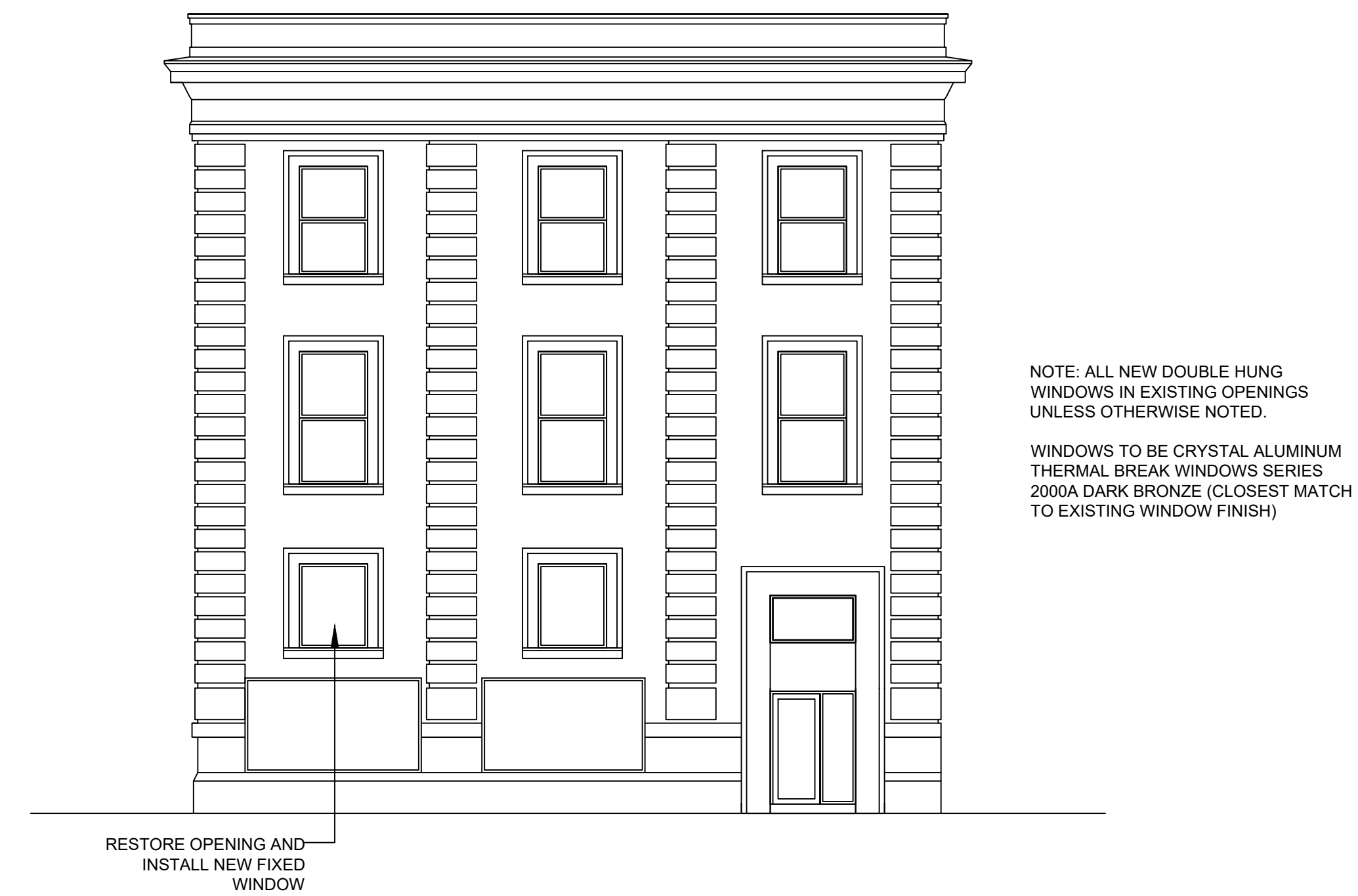
Existing South Elevation (Detroit)

1/8" = 1'-0"



Proposed North Elevation

1/8" = 1'-0"



Proposed South Elevation (Detroit)

1/8" = 1'-0"

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Existing Marlowe Avenue Elevation

1/8" = 1'-0"



Proposed Marlowe Avenue Elevation

1/8" = 1'-0"



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- E- Electrical Plans
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- P- Plumbing Plans

WALL TYPES

- 1 EXISTING EXTERIOR MULTI-WYTHE BRICK MASONRY WITH PLASTER FINISH
- 2 EXISTING INTERIOR CMU PARTITION
- 3 EXISTING FRAMED PARTITION WALL
- 4 NEW 1 5/8" X 3 5/8" METAL STUD WALL WITH 5/8" TYPE X GYPSUM BOARD FINISH WITH ROCKWOOL SAFE N SOUNDS BATT INSULATION BETWEEN STUDS - UL U419
- 5 NEW 1 5/8" X 6" METAL STUD WALL WITH 5/8" TYPE X GYPSUM BOARD FINISH WITH ROCKWOOL SAFE N SOUNDS BATT INSULATION BETWEEN STUDS

- USE GREEN BOARD GYPSUM IN BATHROOMS AND AT KITCHENETTE AREA.
- ALL WALLS RUN FLOOR TO UNDERSIDE OF CONCRETE SLAB AND BEAMS UNLESS OTHERWISE NOTED

WALL LEGEND

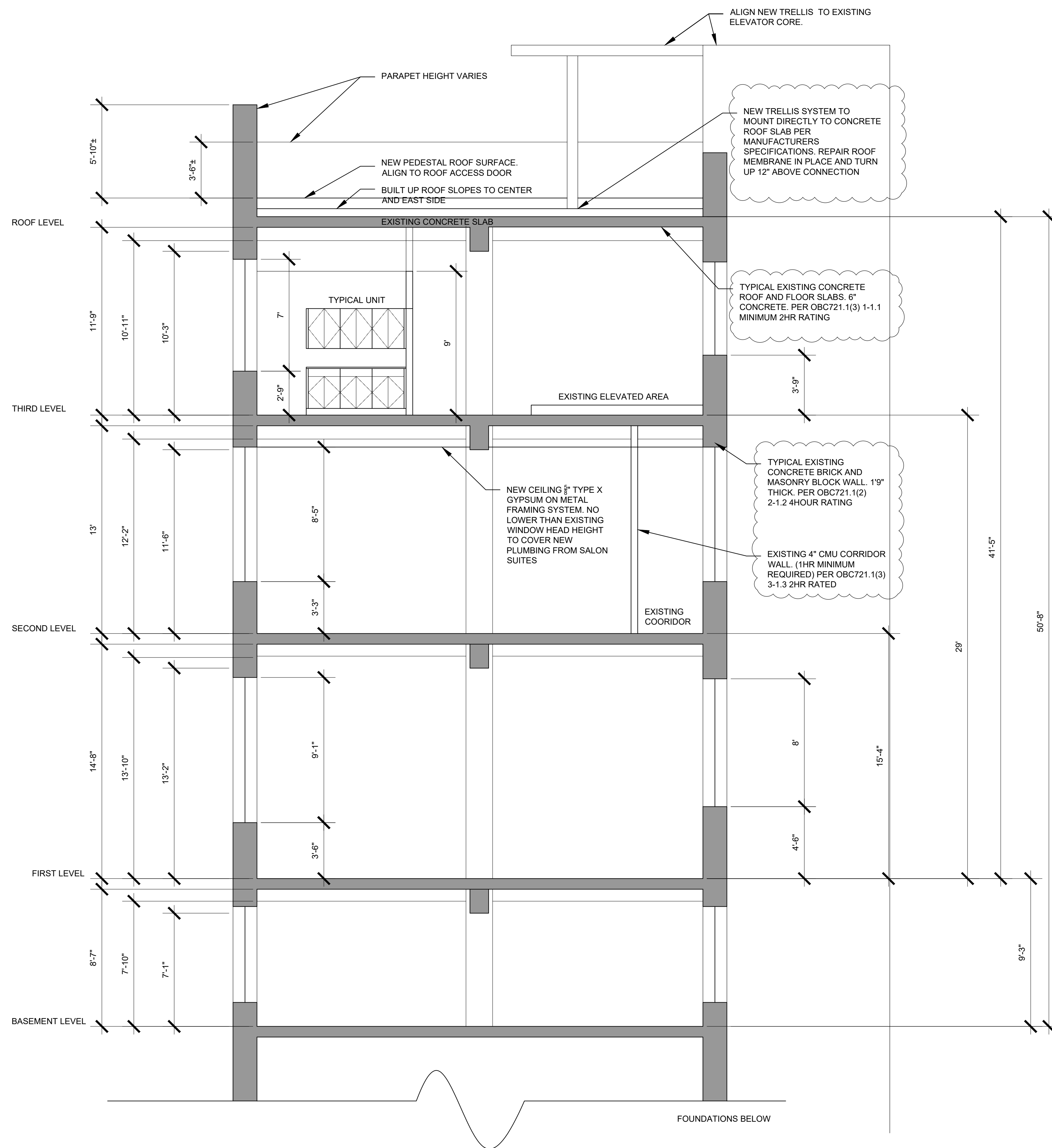
- DEMOLITION
- ▬ EXISTING WALL
- ▬ NEW WALL



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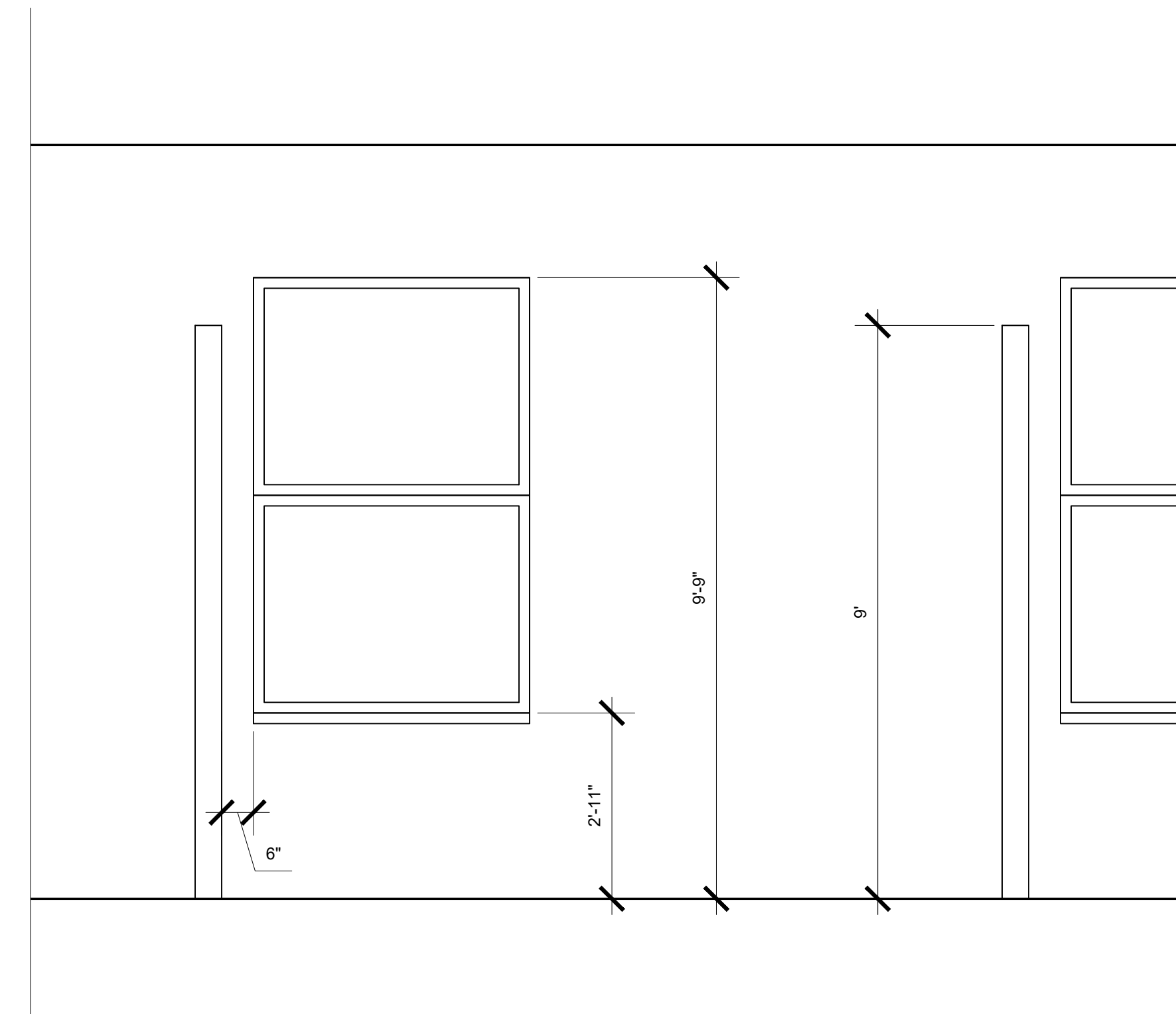
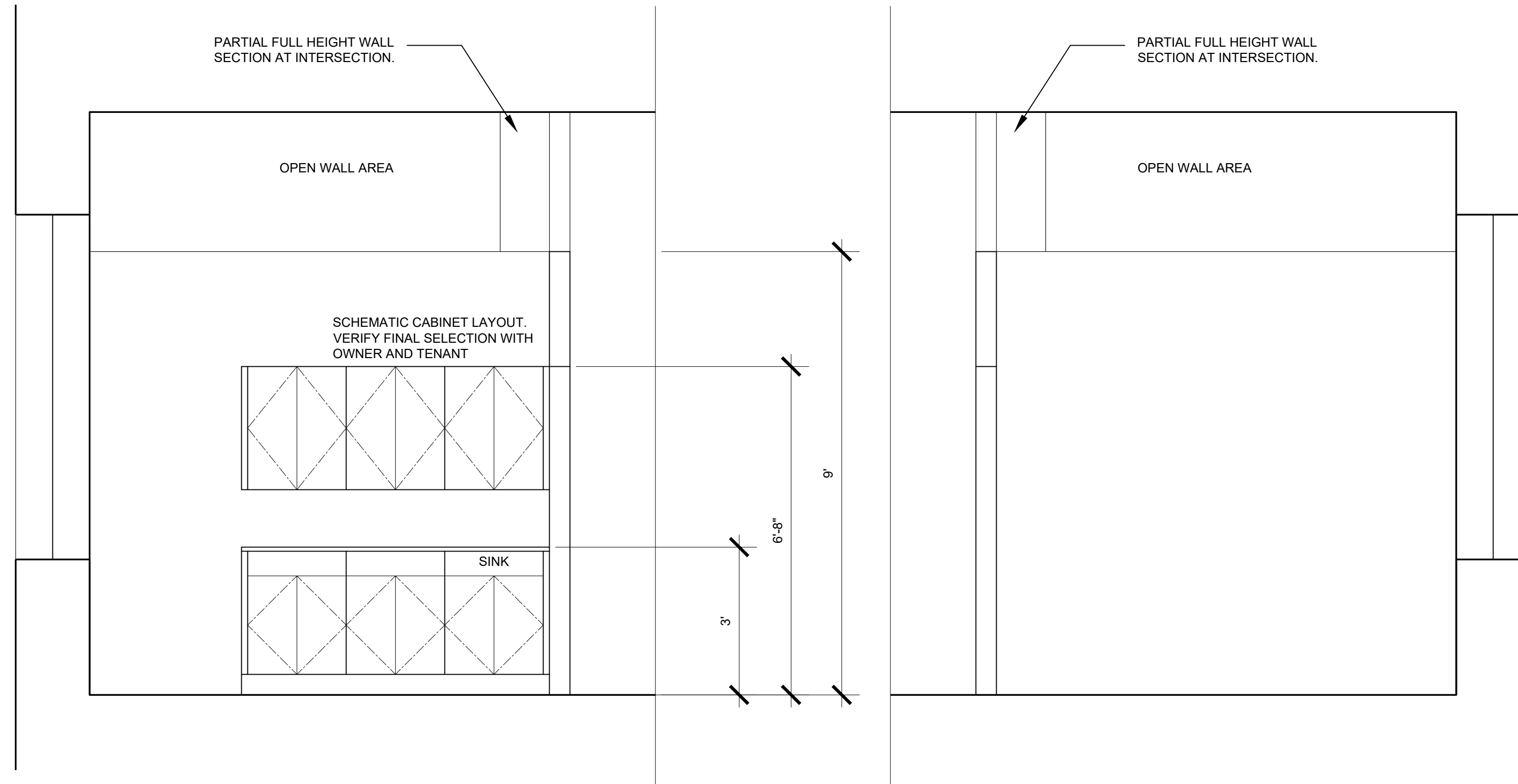
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Typical Schematic Building Section
1/4" = 1'-0"

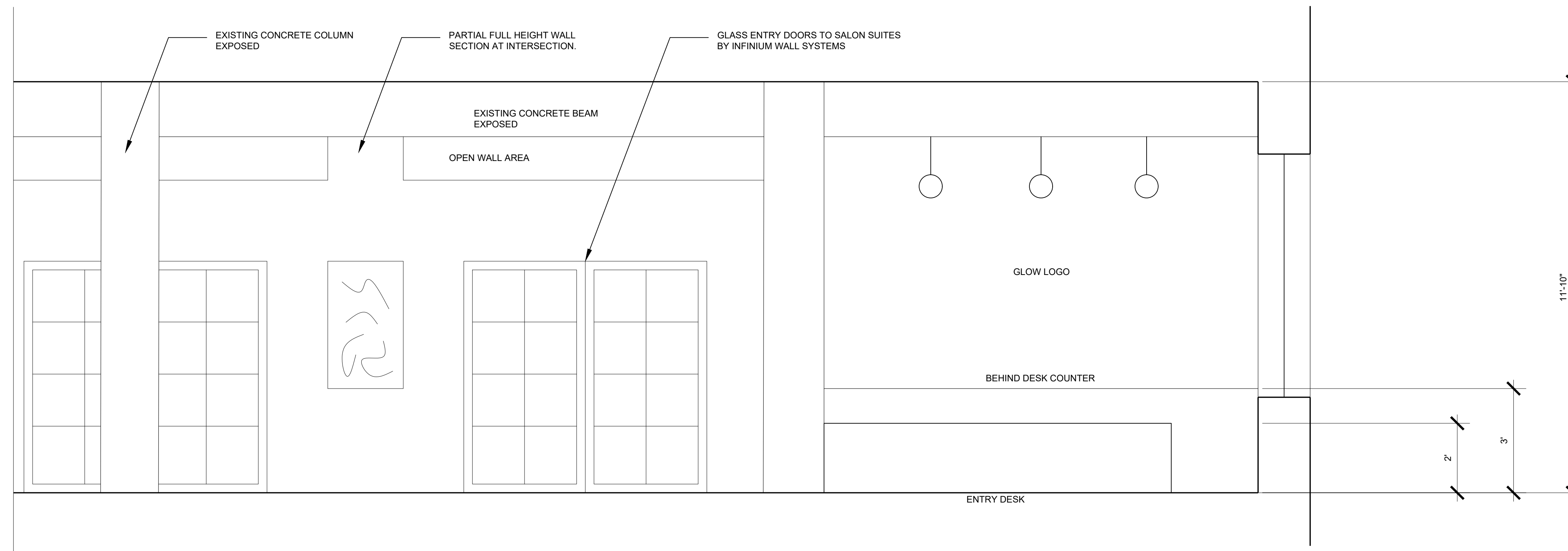
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Typical Salon Suite Elevations

1/2" = 1'-0"



Salon Entry Elevation

1/2" = 1'-0"

WALL TYPES

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- 3 EXISTING FRAMED PARTITION WALL
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- USE GREEN BOARD GYPSUM IN BATHROOMS AND AT KITCHENETTE AREA.
- ALL WALLS RUN FLOOR TO UNDERSIDE OF CONCRETE SLAB AND BEAMS UNLESS OTHERWISE NOTED

WALL LEGEND

- DEMOLITION
- ▬ EXISTING WALL
- ▬ NEW WALL



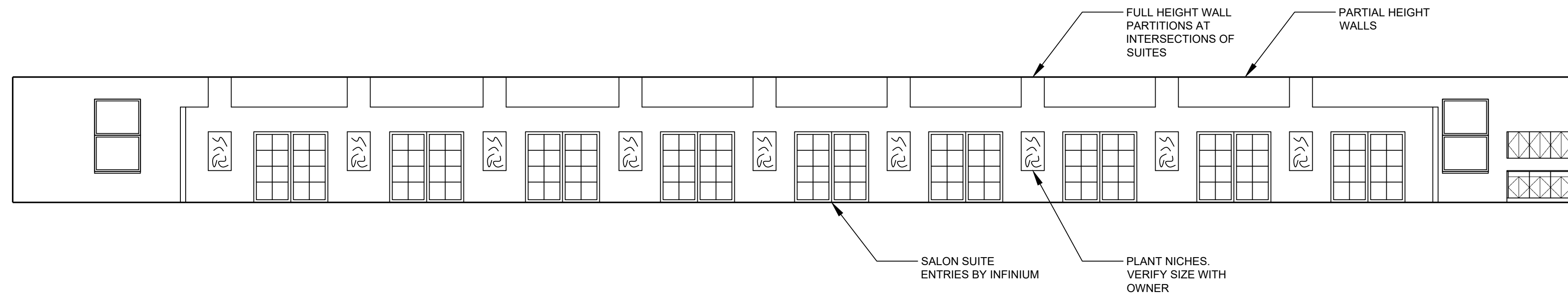
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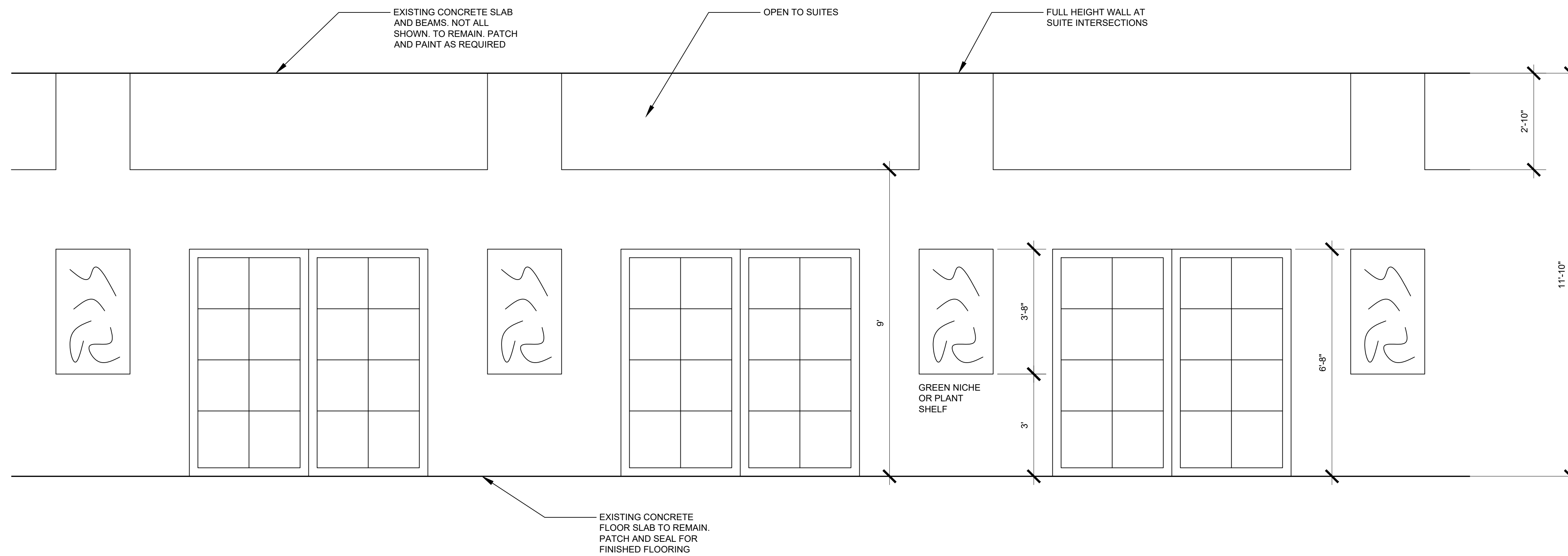
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Salon Hallway Section
1/8" = 1'-0"



Typical Salon Hallway Elevation
1/2" = 1'-0"



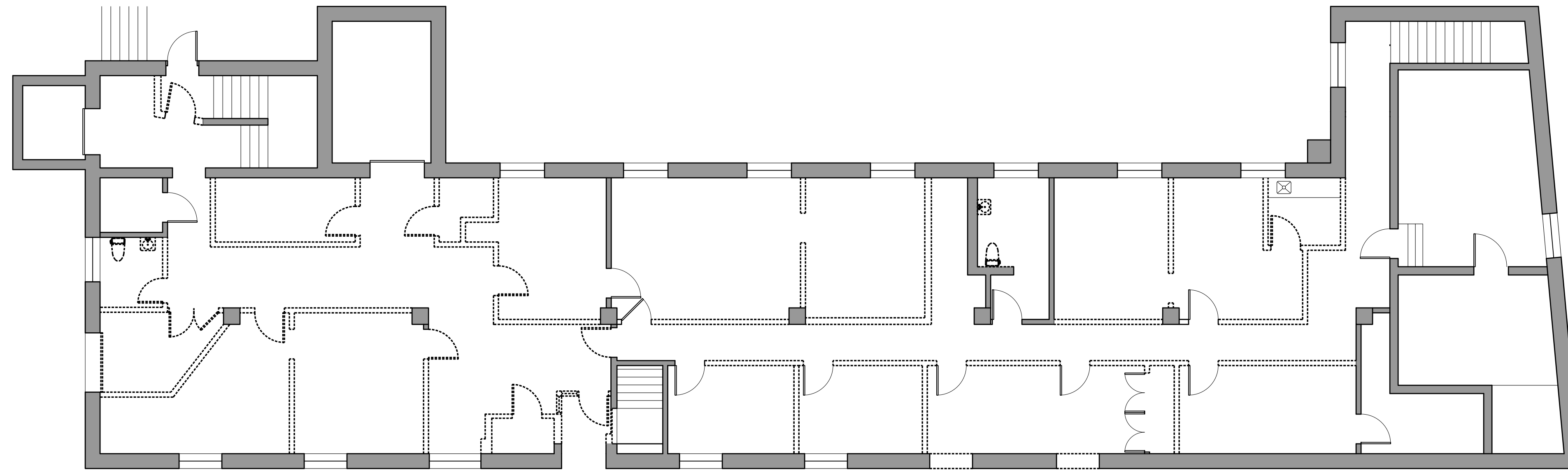
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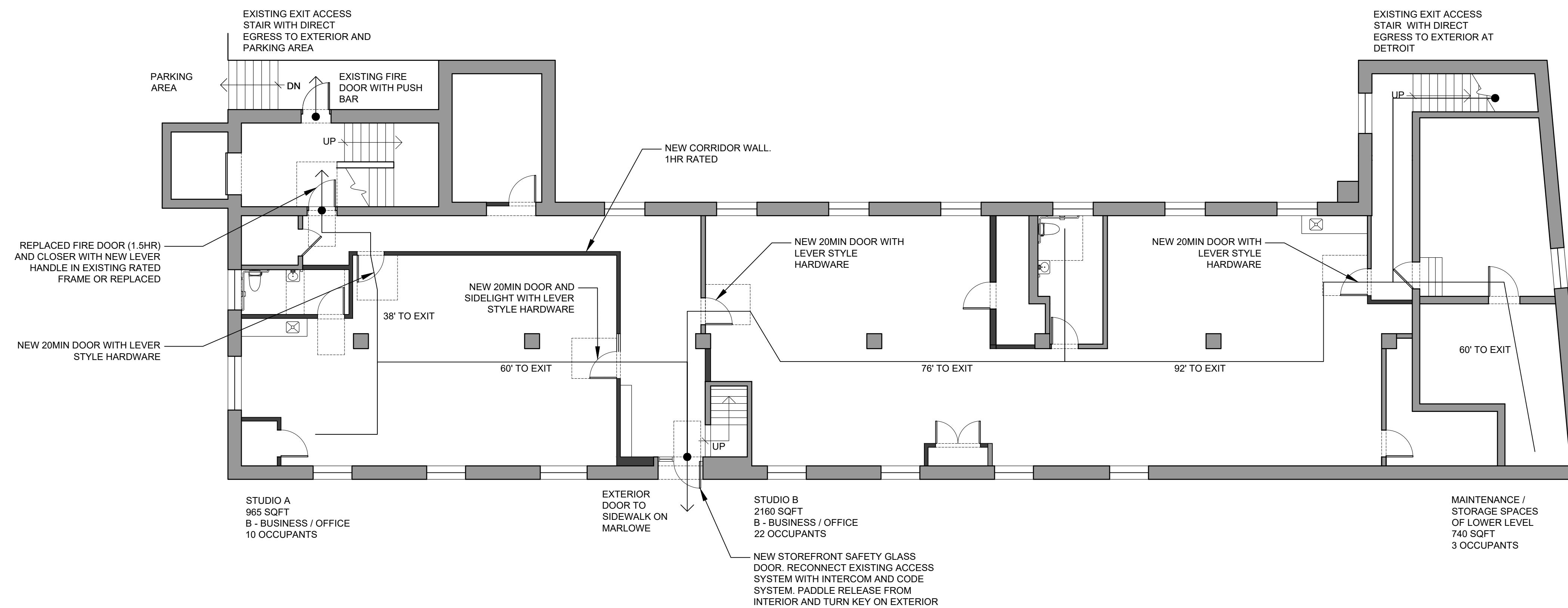
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Existing Basement
1/8" = 1'-0"



Proposed Basement Egress Plan
1/8" = 1'-0"

WALL LEGEND

- DEMOLITION
- ▬ EXISTING WALL
- ▬ NEW WALL



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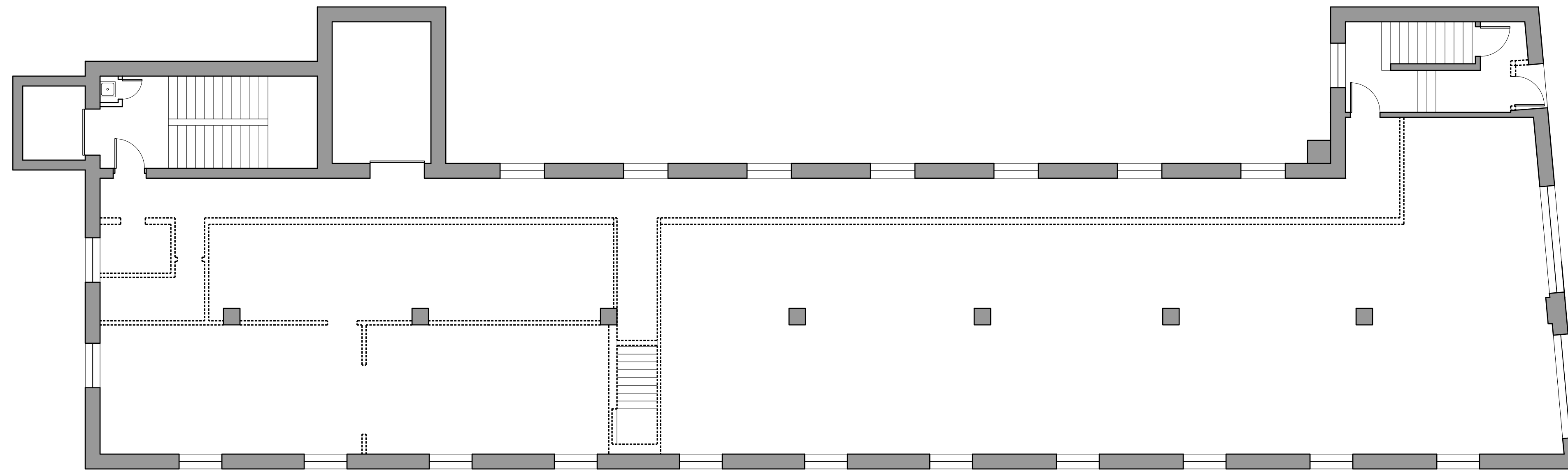
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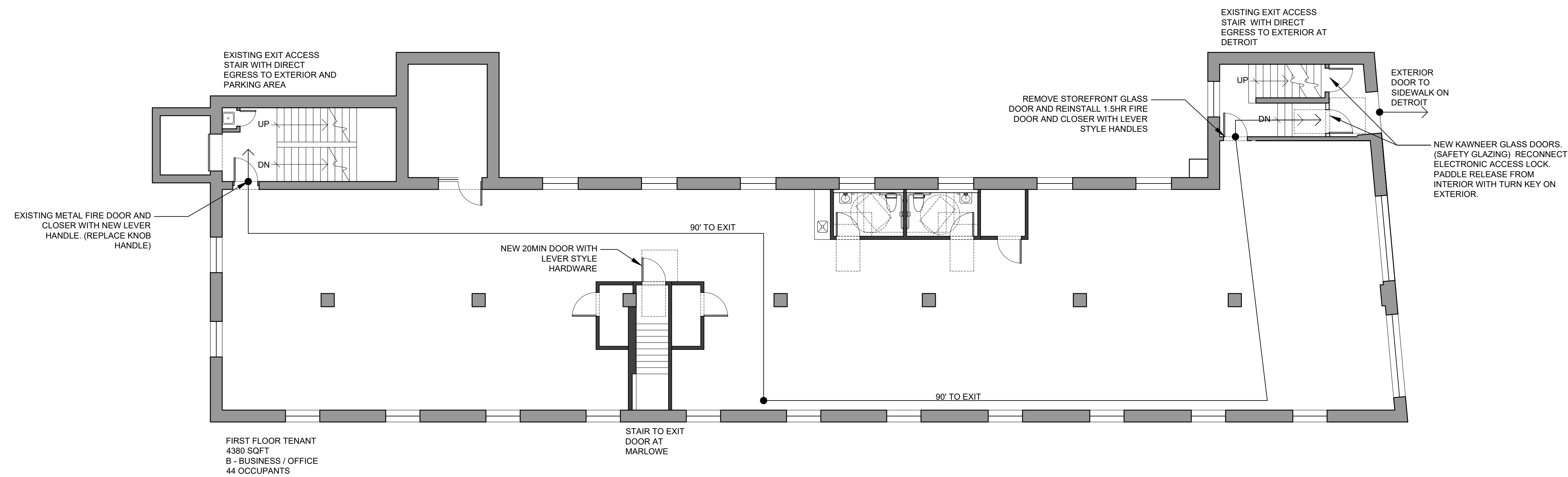
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Existing First Floor Plan
 $\frac{1}{8}'' = 1'-0''$



Proposed First Floor Egress Plan
 $\frac{1}{8}'' = 1'-0''$

WALL LEGEND

- DEMOLITION
- ▬ EXISTING WALL
- ▬ NEW WALL



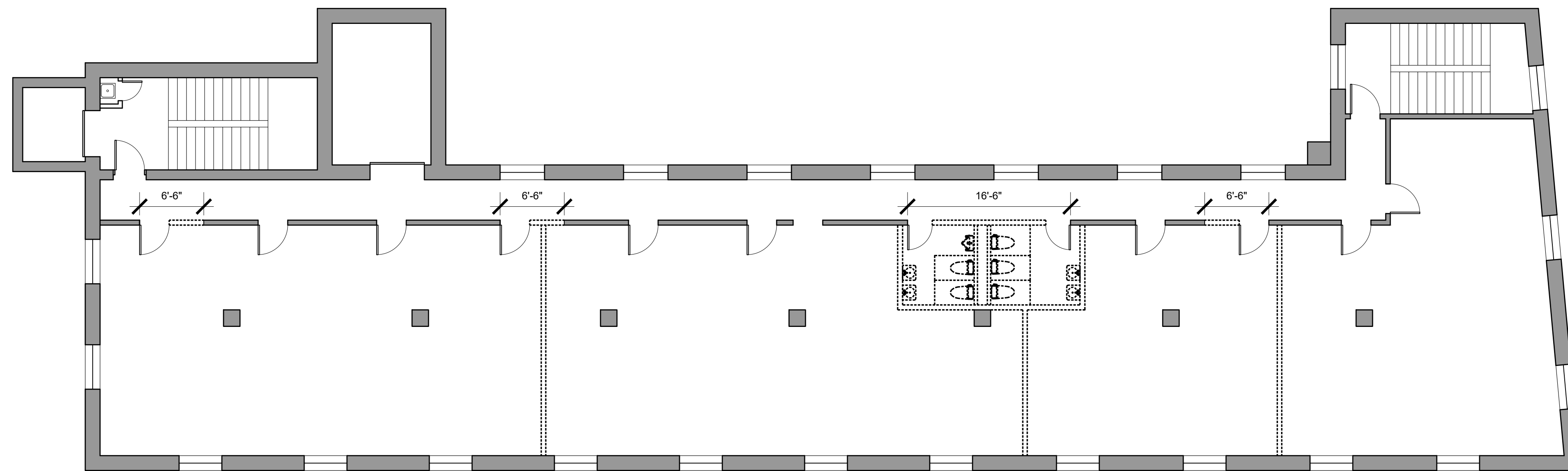
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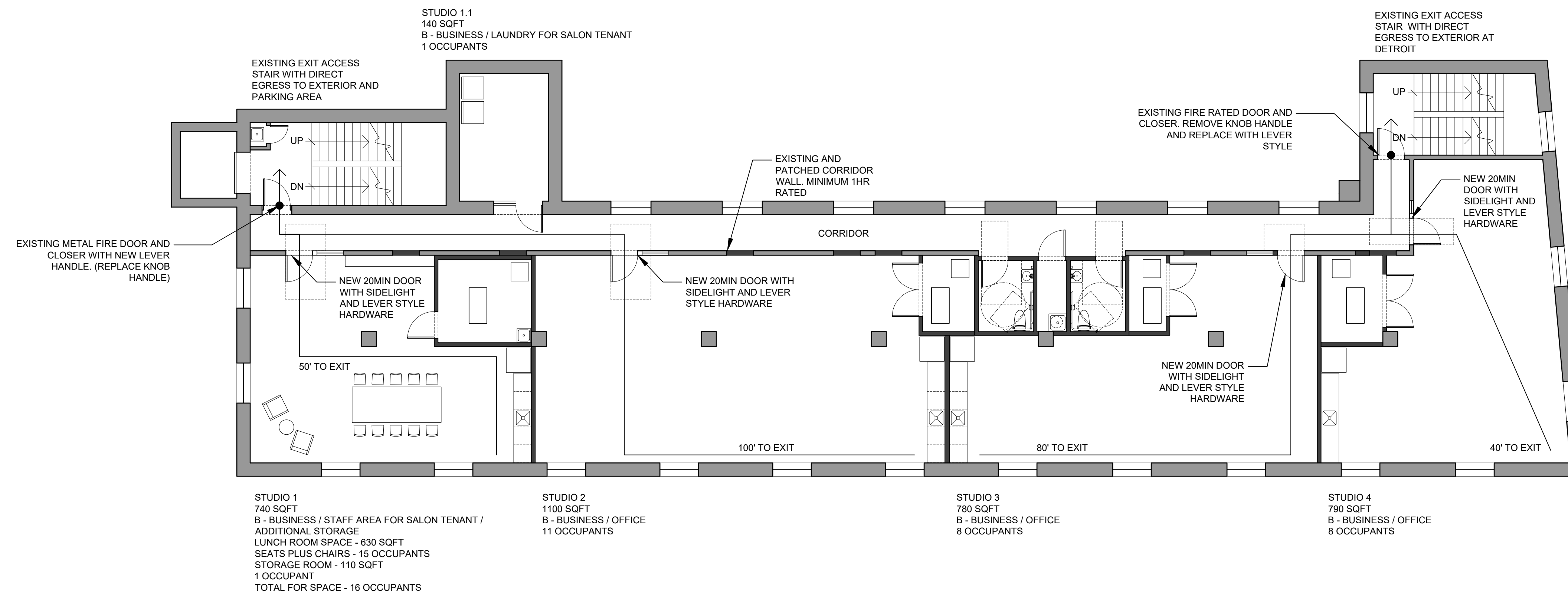
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4/11/2024	
Drawn By	
DJM	

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Existing Second Floor
 $\frac{1}{8}'' = 1'-0''$



Proposed Second Floor Egress Plan
 $\frac{1}{8}'' = 1'-0''$

WALL LEGEND

- DEMOLITION
- ===== EXISTING WALL
- ===== NEW WALL



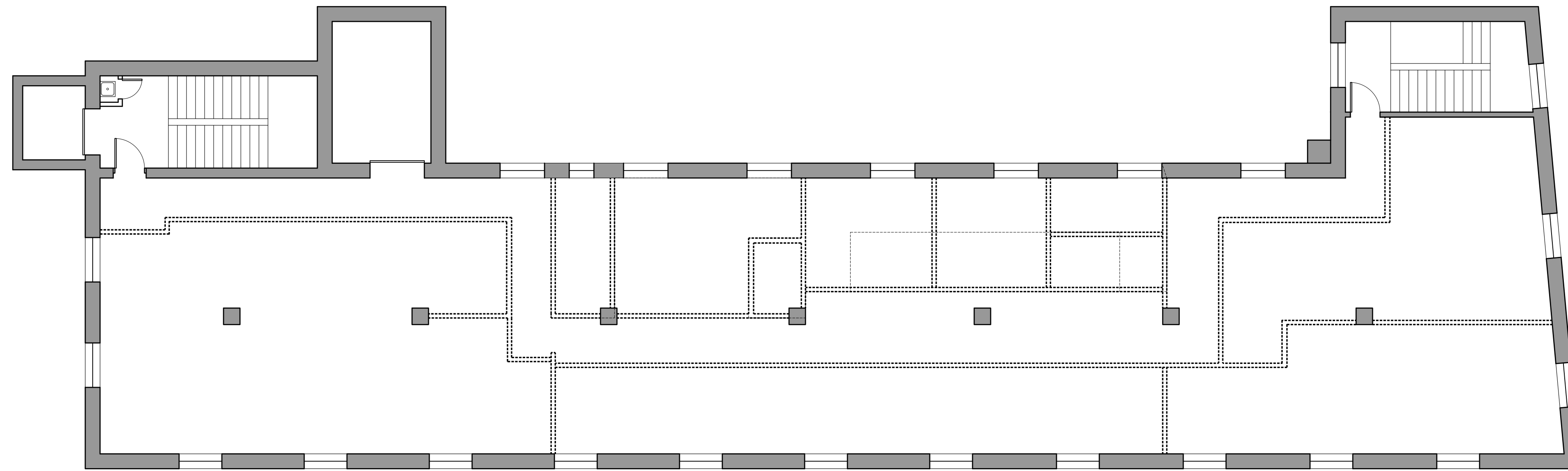
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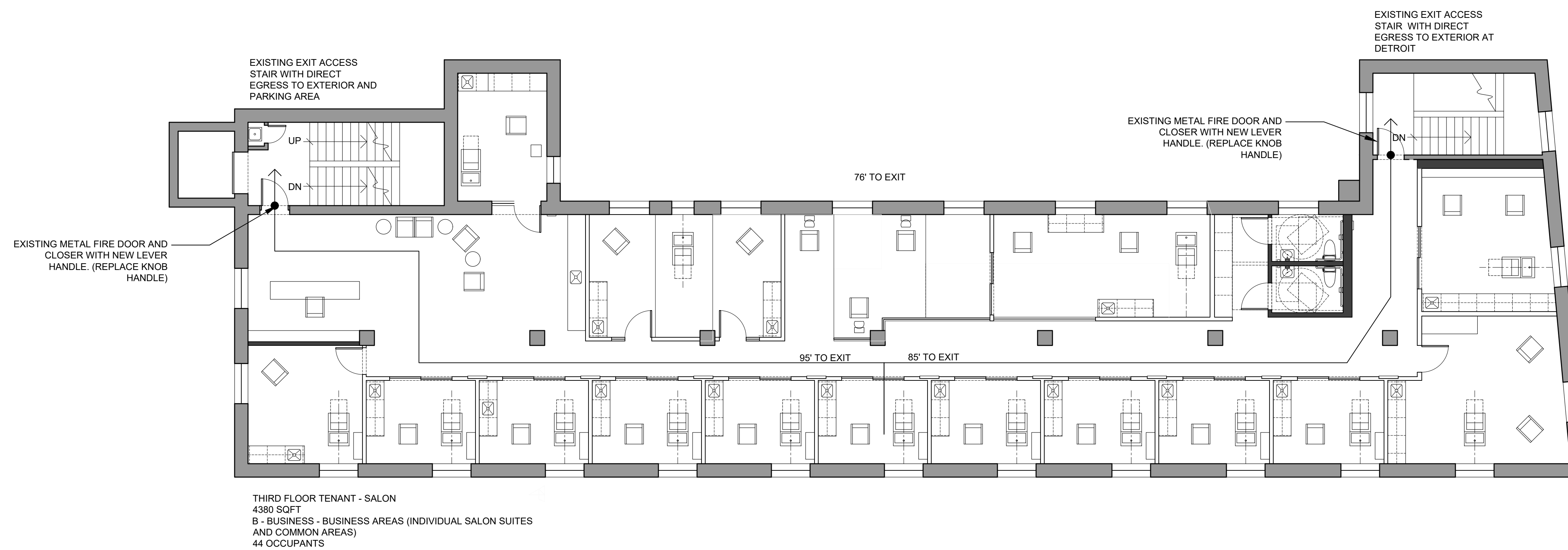
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Existing Third Floor
1/8" = 1'-0"



Proposed Third Floor Egress Plan
1/8" = 1'-0"

WALL LEGEND

- DEMOLITION
- EXISTING WALL
- NEW WALL



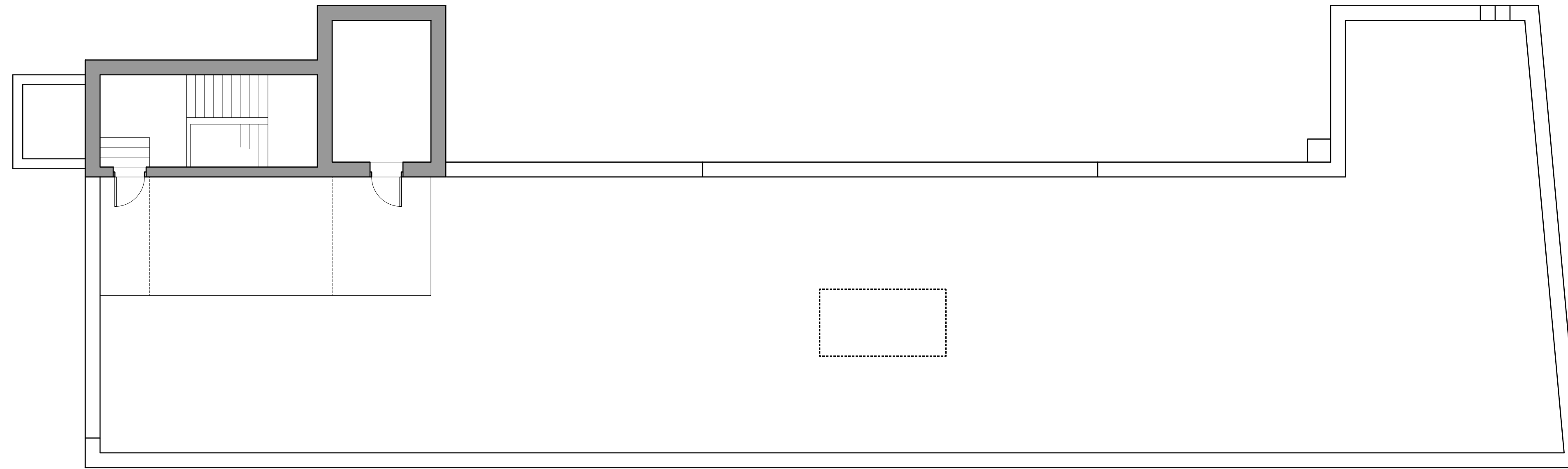
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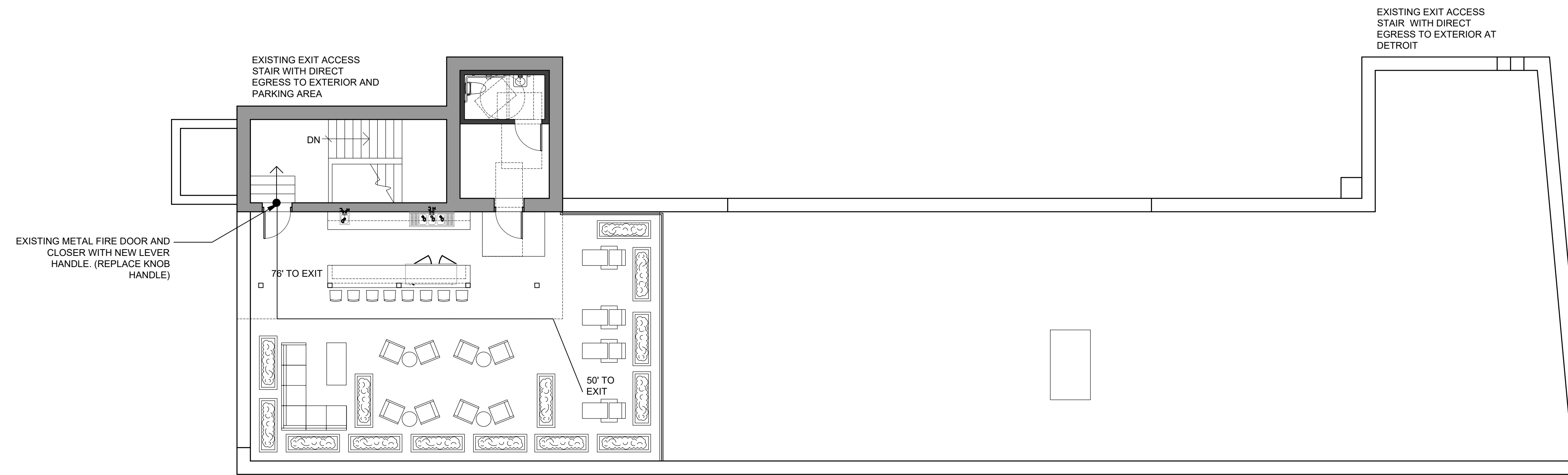
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Existing Roof
1/8" = 1'-0"



ROOF DECK - SALON TENANT SEASONAL PROCESSING LOUNGE
(HAIR TREATMENT WAITING AREA)
1440 SQFT
B - BUSINESS - SMALL OCCUPANCY LESS THAN 50 / ACCESSORY
USE OF THIRD FLOOR SALON TENANT
30 OCCUPANTS - SEATING PLAN AND STAFF

Proposed Roof Egress Plan
1/8" = 1'-0"

WALL LEGEND

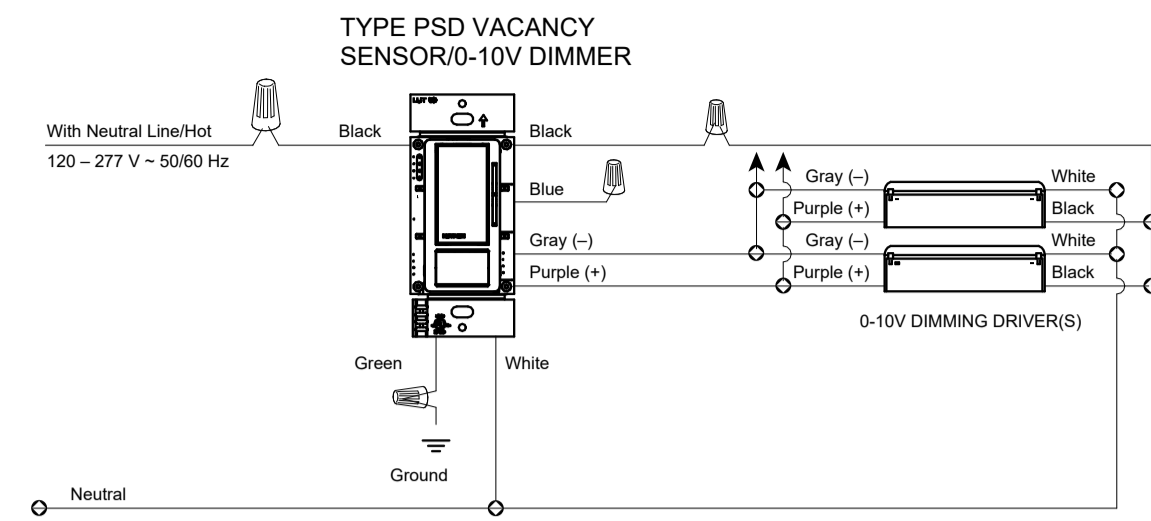
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- █ EXISTING WALL
- █ NEW WALL



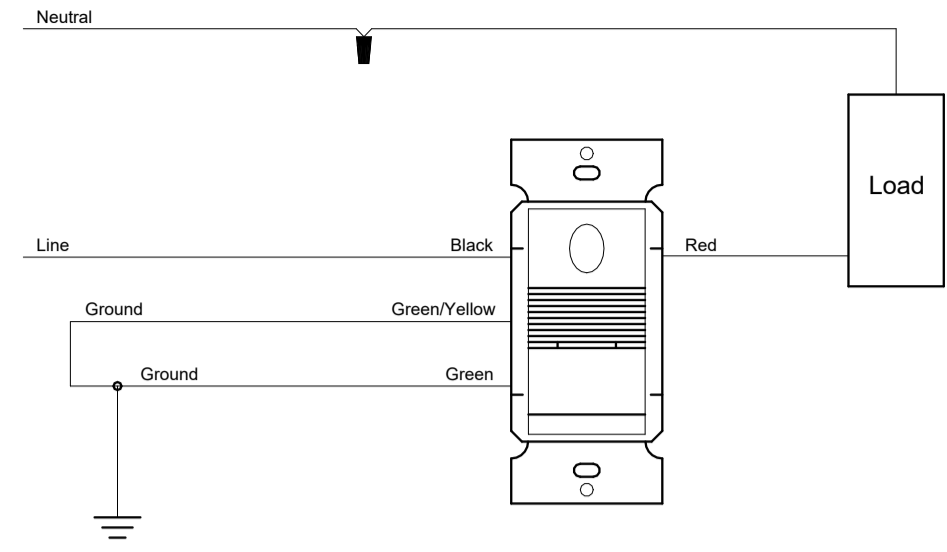
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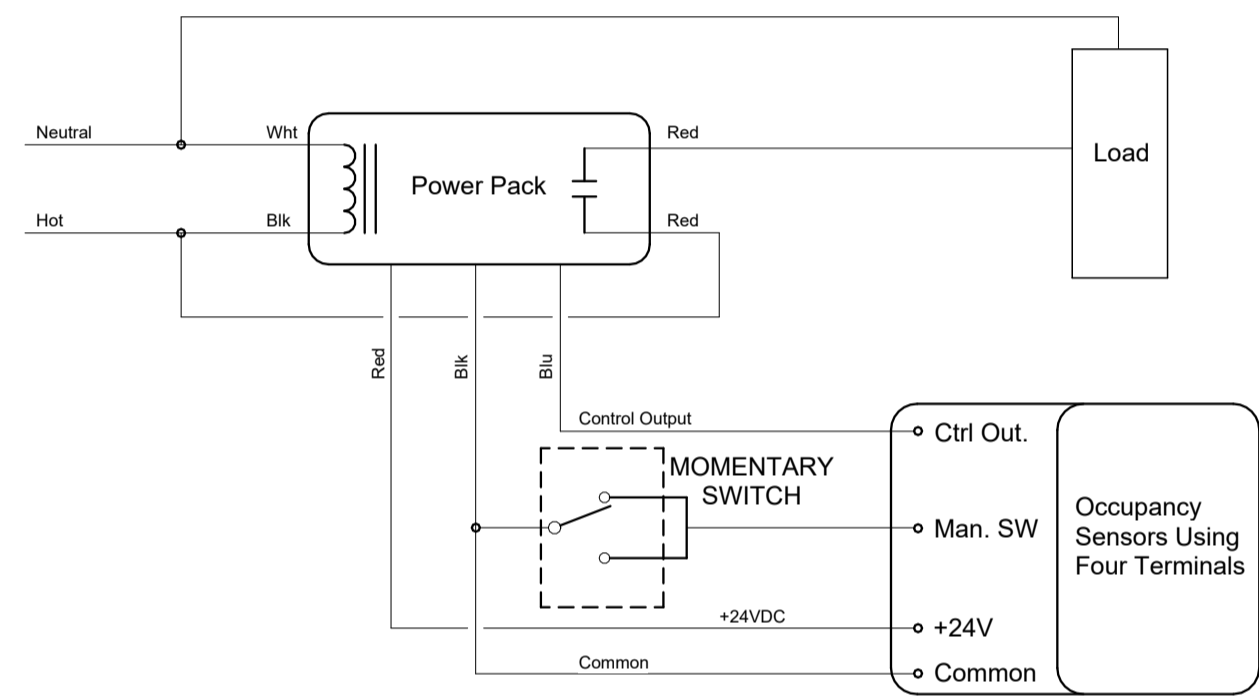
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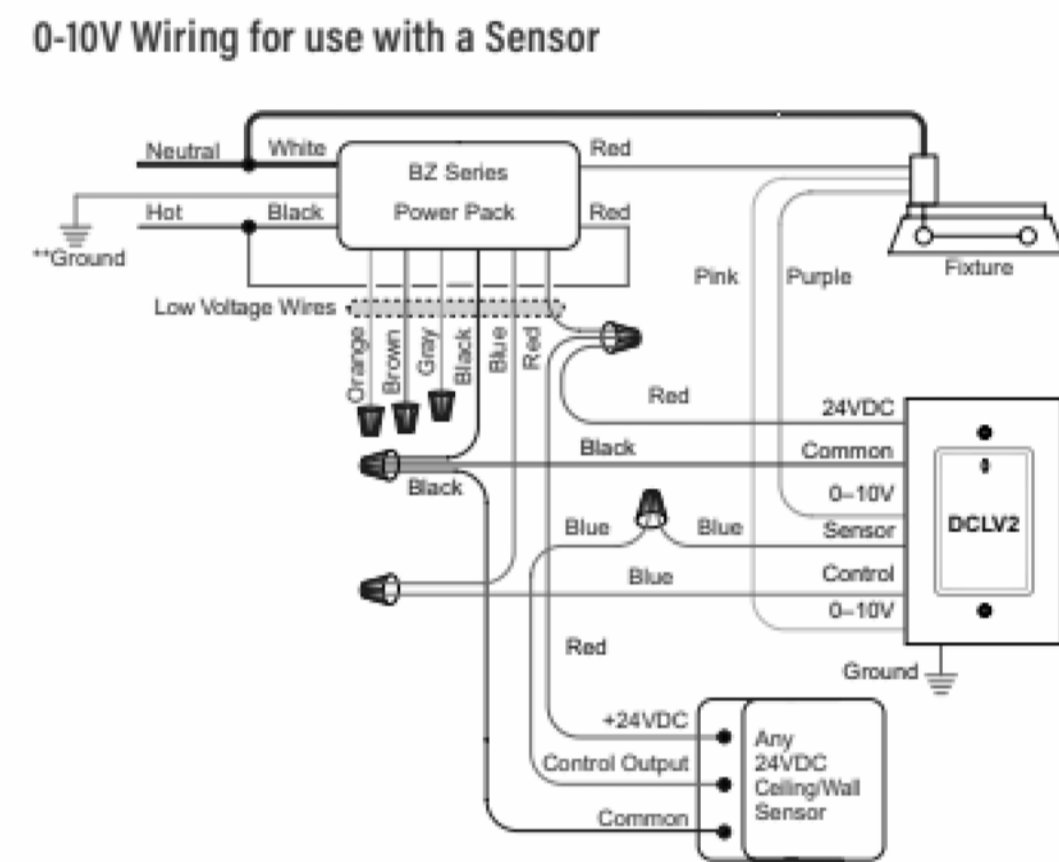
TYPICAL IN WALL 0-10V DIMMER/VACANCY SENSOR WIRING DIAGRAM "PSD"
SCALE: NONE



TYPICAL IN WALL LINE VOLTAGE STANDALONE VACANCY SENSOR WIRING DIAGRAM "PS"
SCALE: NONE



TYPICAL CEILING/WALL MOUNTED LOW VOLTAGE STANDALONE VACANCY SENSOR WIRING DIAGRAM "WD-3"
SCALE: NONE



NOTE: For all wiring applications, if BZ Power Pack model includes a DIP switch, do not set switch to "Manual"

LUMINAIRE SCHEDULE - LED										
SYMBOL	TYPE	MOUNTING	DRIVER(S)		WATTAGE	VOLTAGE	LUMINAIRE DESCRIPTION	ACCEPTABLE MANUFACTURERS	NOTES	
			TYPE	QTY						
○	A	PENDANT	0-10V	1	100 W	120 V	DECORATIVE PENDANT / CANDELIER LUMINAIRE.	TO BE SELECTED BY ARCHITECT	5,6	
○	B	PENDANT	0-10V	1	100 W	120 V	DECORATIVE PENDANT / CANDELIER LUMINAIRE.	TO BE SELECTED BY ARCHITECT	5,6	
▭	C4	SURFACE/SUSP ENDED	0-10V 10%	1	17 W	120 V	4'-0" LONG LUMINAIRE WITH FROSTED POLYCARBONATE LENS.	LITHONIA LIGHTING APPROVED EQUAL BY ARCHITECT	2,6	
▭	C8	SURFACE/SUSP ENDED	0-10V 10%	1	35 W	120 V	8'-0" LONG LUMINAIRE WITH FROSTED POLYCARBONATE LENS.	LITHONIA LIGHTING APPROVED EQUAL BY ARCHITECT	2,6	
○	D	SURFACE	0-10V	1	24 W	120 V	DECORATIVE ILLUMINATED MIRROR.	TO BE SELECTED BY ARCHITECT	5,6	
○	E	SURFACE	0-10V	1	8 W	120 V	DECORATIVE EXTERIOR SCONCE WITH SEALED OPTICAL COMPARTMENT AND INTEGRAL PHOTOCELL.	TO BE SELECTED BY ARCHITECT	5,6,8	
⌋	ESW	SURFACE	N/A	N/A	2 W	120 V	EMERGENCY LUMINAIRE WITH THERMOPLASTIC HOUSING, NICKEL CADMIUM BATTERY, 90 MINUTES MINIMUM BATTERY CAPACITY, BATTERY CHARGER, TEST SWITCH, INDICATOR LIGHT AND (2) ADJUSTABLE LAMP HEADS.	LITHONIA ELM2L DUAL-LITE EV EMERG-LITE EL-2LED	1	
▭	F	RECESSED	0-10V	1	38 W	120 V	2'-0" X 4'-0" LUMINAIRE WITH STEEL HOUSING, ROUND CENTER FROSTED SMOOTH POLYCARBONATE BASKET, AND BAKED MATTE WHITE ENAMEL FINISH.	TO BE SELECTED BY ARCHITECT	2,6	
○	G	PENDANT	0-10V	1	17 W	120 V	5" DIAMETER CYLINDER WITH MEDIUM DISTRIBUTION AND ADJUSTABLE CABLE SUSPENSION.	TO BE SELECTED BY ARCHITECT	5,6,8	
○	H	SURFACE	-	-	20 W	120 V	TRACK LIGHT FIXTURE SUSPENDED FROM CEILING. 4' OR 8' SECTIONS - ONE DIRECTIONAL LIGHT HEAD PER 4' OF TRACK (SHORT TRACKS EVERY 2') - 20W LED PER HEAD	TO BE SELECTED BY ARCHITECT	2,6,7	
○	J	RECESSED	0-10V	1	23 W	120 V	4" DIAMETER DOWNLIGHT WITH SELF-FLANGED, SEMI-DIFFUSE (HAZE) CLEAR, LOW IRIDESCENT ALUMINUM REFLECTOR, MEDIUM BEAM DISTRIBUTION, AND WHITE PAINTED FLANGE.	TO BE SELECTED BY ARCHITECT	2,6	
○	K	PENDANT	0-10V	1	100 W	120 V	DECORATIVE WEATHER PROOF PENDANT / CANDELIER LUMINAIRE.	TO BE SELECTED BY ARCHITECT	5,6	
⌋	X	WALL	N/A	N/A	5 W	120 V	EXIT SIGN WITH 6" HIGH RED LETTERS, WHITE POLYCARBONATE HOUSING, DUAL ADJUSTABLE HEADS, LEAD CALCIUM BATTERY, BATTERY CHARGER, TEST SWITCH, AND INDICATOR LIGHT. FACES, ARROWS AND MOUNTING AS INDICATED ON DRAWINGS.	LITHONIA LHQM DUAL-LITE HCX EMERG-LITE EF12D	1	
⌋	X2	WALL	N/A	N/A	5 W	120 V	EXIT SIGN WITH 6" HIGH RED LETTERS, WHITE POLYCARBONATE HOUSING, LEAD CALCIUM BATTERY, BATTERY CHARGER, TEST SWITCH, AND INDICATOR LIGHT. FACES, ARROWS AND MOUNTING AS INDICATED ON DRAWINGS.	LITHONIA LQM DUAL-LITE EVE EMERG-LITE ELX	1	
⌋	XS	SIDE	N/A	N/A	5 W	120 V	EXIT SIGN WITH 6" HIGH RED LETTERS, WHITE POLYCARBONATE HOUSING, LEAD CALCIUM BATTERY, BATTERY CHARGER, TEST SWITCH, AND INDICATOR LIGHT. FACES, ARROWS AND MOUNTING AS INDICATED ON DRAWINGS.	LITHONIA LQM DUAL-LITE EVE EMERG-LITE ELX	1	
⌋	XWP	WALL	N/A	N/A	5 W	120 V	EXIT SIGN WITH 6" HIGH RED LETTERS, NEMA 4X SILVER HOUSING, REMOTE HEADS, VANDAL PROOF, UL WET LOCATION LISTED, RATED FOR COLD WEATHER, NICKEL CADMIUM BATTERY, BATTERY CHARGER, TEST SWITCH, AND INDICATOR LIGHT. FACES, ARROWS AND MOUNTING AS INDICATED ON DRAWINGS.	LITHONIA LV DUAL-LITE SEWL EMERG-LITE SVX	1	

LUMINAIRE SCHEDULE NOTES:

1. WALL MOUNTED EXIT SIGNS SHALL BE ABOVE DOORS, CENTERED BETWEEN DOOR AND CEILING WHERE PRACTICAL, OR AT A SIMILAR HEIGHT IF NOT ABOVE DOORS. MOUNT EMERGENCY BATTERY PACKS AT SIMILAR HEIGHT. EXIT SIGNS SHALL BE VISIBLE FOR EGRESS INDICATION.
2. MOUNTED IN EITHER LAY-IN OR DRYWALL CEILING. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PROVIDE PROPER MOUNTING ACCESSORIES.
3. CHAIN SUSPEND LUMINAIRES AT 8'-0" AFF UON. IF A DRY WALL CEILING OCCURS, SURFACE MOUNT LUMINAIRES. SURFACE MOUNTED LUMINAIRES SHALL HAVE CLOSED TOP REFLECTORS.
4. AIM LUMINAIRES FOR OPTIMUM COVERAGE OF TASK AS DIRECTED IN FIELD BY THE ARCHITECT.
5. VERIFY MOUNTING HEIGHT WITH ARCHITECT.
6. INSTALL LUMINAIRES AS RECOMMENDED BY THE MANUFACTURER'S INSTALLATION DRAWINGS.
7. PROVIDE NUMBER OF HEADS AND TRACK LENGTHS AS INDICATED ON DRAWINGS.
8. PROVIDE EMERGENCY BATTERY DRIVER FOR EGRESS LIGHTING. DRIVER SHALL PROVIDE 90 MINUTES ILLUMINATION MINIMUM.

GENERAL LUMINAIRE NOTES

- A. FIRST MANUFACTURER'S NAME LISTED IN ACCEPTABLE MANUFACTURERS COLUMN IS BASIS OF THE DESIGN. ALTERNATE MANUFACTURERS LISTED SHALL HAVE SIMILAR LUMEN OUTPUT, DIMMING COMPATIBILITY, BEAM DISTRIBUTION, LED COLOR, ETC., AND IS THE RESPONSIBILITY OF THE EC TO SUBMIT EQUIVALENT PRODUCTS.
- B. ALTERNATES FOR LUMINAIRES WITHOUT EQUALS MUST BE PRE-APPROVED BY ENGINEER AND ARCHITECT PRIOR TO BID.
- C. CATALOG SERIES ONLY INDICATED IN ACCEPTABLE MANUFACTURERS COLUMN. SUBMITTAL SHALL INCLUDE FULL MODEL NUMBER INCLUSIVE OF OPTIONS SPECIFIED.
- D. REFER TO LIGHTING SPECIFICATION SECTION FOR ADDITIONAL DRIVER AND/OR LAMP REQUIREMENTS. LAMP MANUFACTURERS LISTED SHALL BE PROVIDED. PROVIDE SHOP DRAWINGS AS REQUIRED BY ELECTRICAL GENERAL PROVISIONS SPECIFICATION SECTION.
- E. ALL 0-10V DRIVERS SHALL BE 1% DIMMING TYPE, UON.

NUMBER	NAME
E001	ELECTRICAL SYMBOL LEGEND AND GENERAL NOTES
E002	LUMINAIRE SCHEDULE
E003	MECHANICAL SCHEDULE
E101	BASEMENT AND FIRST FLOOR LIGHTING PLANS
E102	SECOND AND THIRD FLOOR LIGHTING PLANS
E201	BASEMENT AND FIRST FLOOR POWER AND FIRE ALARM PLANS
E202	SECOND AND THIRD FLOOR POWER AND FIRE ALARM PLANS
E203	ROOF ELECTRICAL PLAN
E601	ELECTRICAL DETAILS AND DIAGRAMS
E602	FIRE ALARM DETAILS AND DIAGRAMS
E701	ONE LINE DIAGRAM
E801	PANEL SCHEDULES
E802	PANEL SCHEDULES

REV. NO.	DESCRIPTION	DATE
1	ADJUDICATION ORDER	04-01-2024



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ISSUED FOR:	Sheet
PERMIT	
DATE:	02/27/2024
DRAWN BY:	WAC

E002

DRAWING LIST - ELECTRICAL

Table with 2 columns: NUMBER, NAME. Lists drawing items E001 through E802 including Electrical Symbol Legend, Luminaire Schedule, Mechanical Schedule, and various lighting and power plans.

MECHANICAL EQUIPMENT SCHEDULE

Main table for Mechanical Equipment Schedule with columns: EQUIPMENT TAG (ABBR, FLOOR, MARK), DESCRIPTION, VOLTAGE, PHASE, HP, FLA, KW, CONN., WIRING, PANEL, CKT#, SWITCH OR STARTER RATINGS, and REMARKS. Contains entries for condensate pumps, domestic water heaters, electric baseboard heaters, exhaust fans, furnaces, fan coil units, return hot water pumps, and rooftop units.

MECHANICAL EQUIPMENT SCHEDULE

Continuation of Mechanical Equipment Schedule table, including entries for electric cabinet heaters and exhaust fans.

MECHANICAL EQUIPMENT CONNECTION LEGEND table defining symbols like DC, DS, MMS, R1, and WPDS for various connection types.

MECHANICAL EQUIPMENT SCHEDULE NOTES:

- 1. POWERED FROM ASSOCIATED CONDENSING UNIT.
2. FAN SHALL BE TIED INTO VACANCY SENSOR SUCH THAT FAN OPERATES ONLY WHEN LIGHTS ARE ON WITHIN RESTROOM.
3. PROVIDE ASTRONOMIC 7 DAY, 1-CIRCUIT, ELECTRONIC TIMECLOCK AS MANUFACTURED BY INTERMATIC FOR FAN CONTROL. COORDINATE FAN SCHEDULE WITH OWNER IN FIELD.

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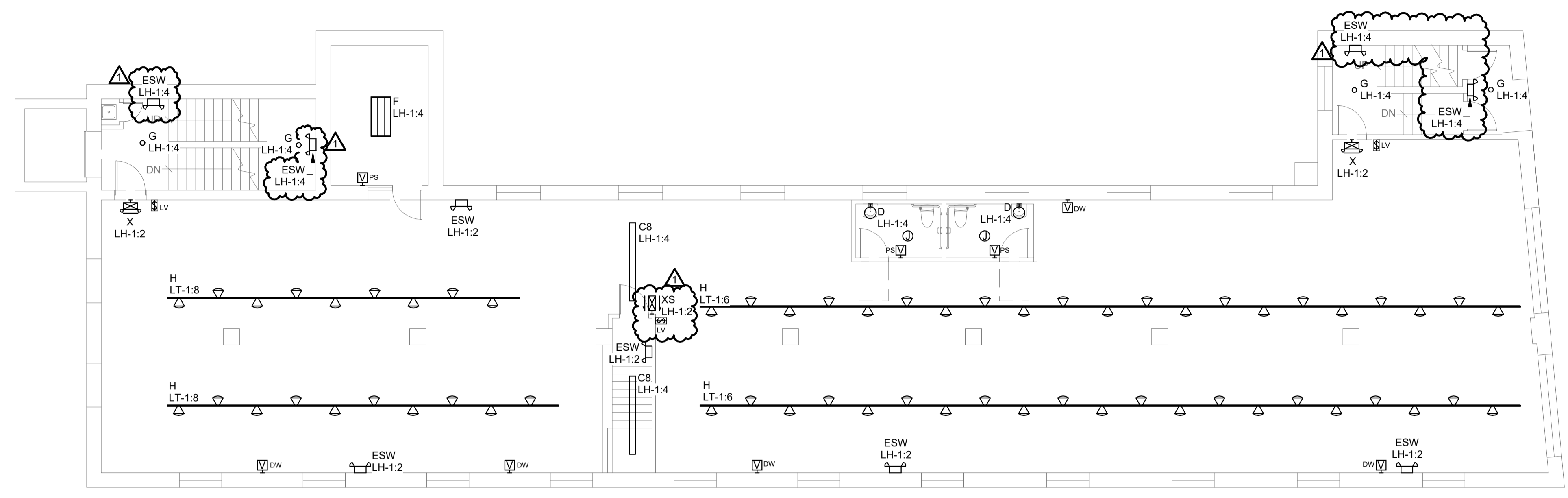
Karpinski Engineering logo and contact information: 3135 Euclid Ave., Cleveland, OH 44115, 216-391-3700 | karpinskieng.com

412.720.0424
DavidJManiet@gmail.com

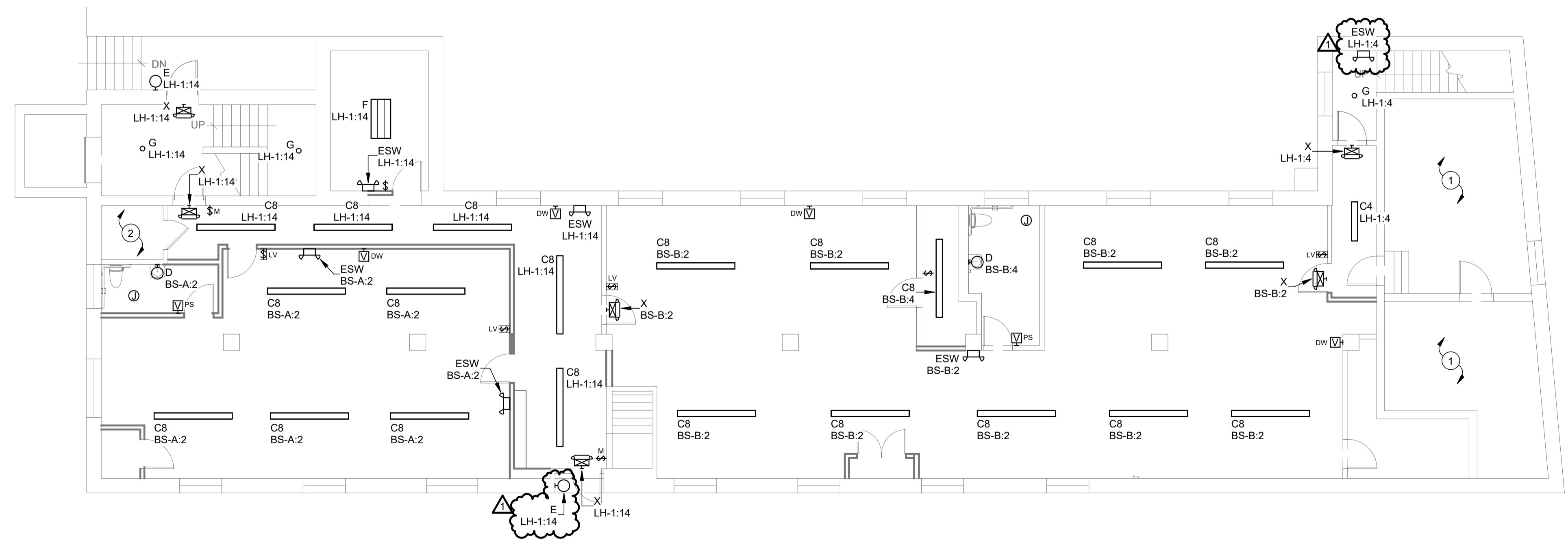
Name / Project Address
The Marlowe Building
14414 Detroit Avenue
Lakewood, Ohio 44107

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DATE: 02/27/2024
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FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"



BASEMENT LIGHTING PLAN
1/8" = 1'-0"

GENERAL NOTES:

- A. COORDINATE EXACT LOCATION OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS AND MILLWORK DRAWINGS PRIOR TO ROUGH-IN.
- B. REFER TO POWER AND FIRE ALARM PLAN FOR ELECTRICAL EQUIPMENT (PANELBOARDS, TRANSFORMERS, ETC.) LOCATIONS.
- C. ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS 'ES' SHALL BE WIRED AHEAD OF LOCAL CONTROL.

PLAN NOTES

- 1. UNLESS NOTED OTHERWISE, ALL EXISTING LUMINAIRES AND ASSOCIATED COONTROLS WITHIN THIS SPACE SHALL REMAIN (ETR); NO WORK REQUIRED.
- 2. EXISTING ELEVATOR MACHINE ROOM, EXISTING LUMINAIRES AND ASSOCIATED CONTROLS SHALL REMAIN (ETR).

DRAWING LIST - ELECTRICAL	
NUMBER	NAME
E001	ELECTRICAL SYMBOL LEGEND AND GENERAL NOTES
E002	LUMINAIRE SCHEDULE
E003	MECHANICAL SCHEDULE
E101	BASEMENT AND FIRST FLOOR LIGHTING PLANS
E102	SECOND AND THIRD FLOOR LIGHTING PLANS
E201	BASEMENT AND FIRST FLOOR POWER AND FIRE ALARM PLANS
E202	SECOND AND THIRD FLOOR POWER AND FIRE ALARM PLANS
E203	ROOF ELECTRICAL PLAN
E601	ELECTRICAL DETAILS AND DIAGRAMS
E602	FIRE ALARM DETAILS AND DIAGRAMS
E701	ONE LINE DIAGRAM
E801	PANEL SCHEDULES
E802	PANEL SCHEDULES

REV. NO.	DESCRIPTION	DATE
1	ADJUDICATION ORDER	04-01-2024

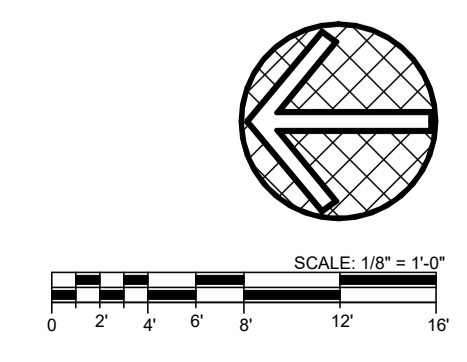


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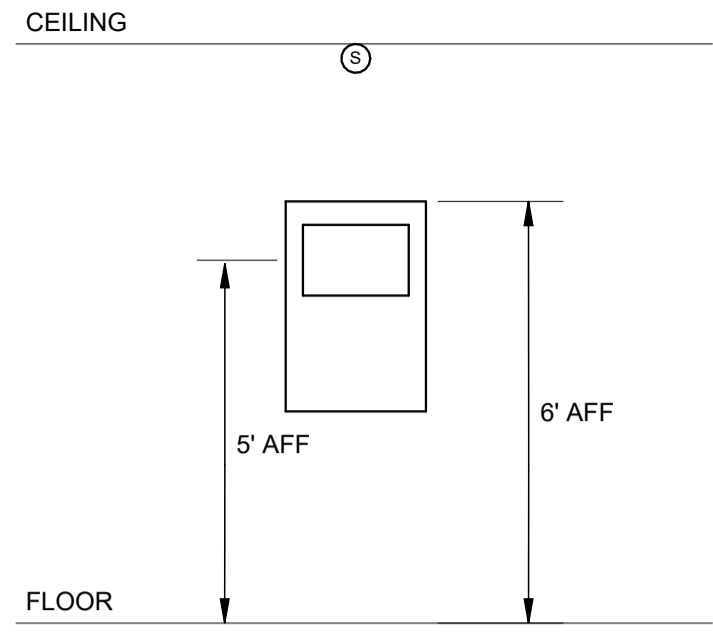
412.720.0424
DavidJManiet@gmail.com

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14414 Detroit Avenue
Lakewood, Ohio 44107

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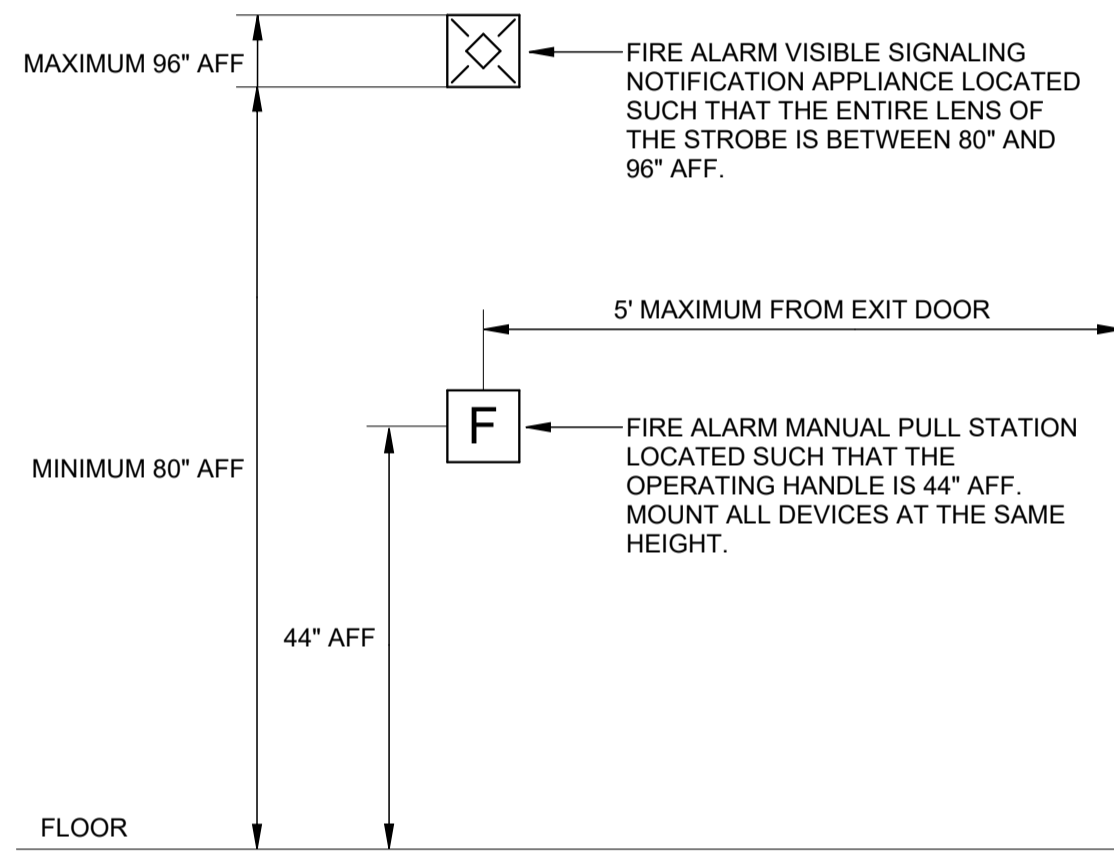


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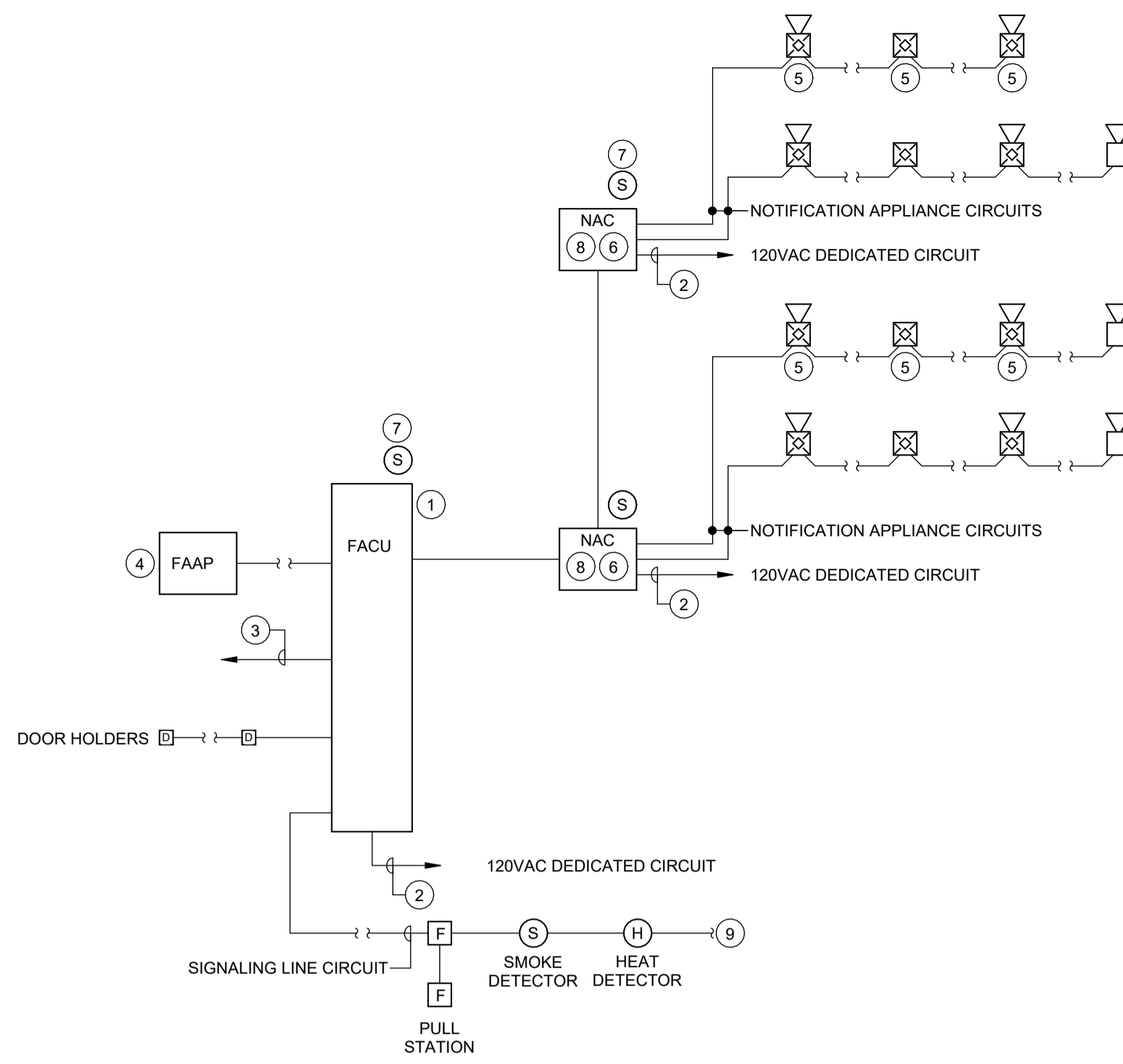
- DETAIL NOTES:**
- FOR PANELS WITH DISPLAYS, LOCATE PANEL SUCH THAT THE DISPLAY IS 5' AFF. OTHERWISE, MOUNT PANEL SUCH THAT THE TOP IS 6' AFF.
 - FOR BLOCK WALLS - COORDINATE MOUNTING HEIGHT WITH TOP COURSE OF BLOCK NEAREST 6' AFF.
 - FAAP AND VCC PANELS MOUNTED SIMILAR.

FIRE ALARM NAC, OR AMP PANEL MOUNTING DETAIL
SCALE: NONE



- DETAIL NOTES:**
- WHERE FLOOR PLAN INDICATES THAT NOTIFICATION APPLIANCE AND MANUAL PULL STATION ARE LOCATED IN THE SAME AREA, THEY SHALL BE MOUNTED IN THE SAME VERTICAL LINE.

MANUAL PULL STATION AND VISUAL DEVICE MOUNTING DETAIL
SCALE: NONE



BASIC ADDRESSABLE FIRE ALARM HORN SYSTEM RISER
SCALE: NONE

(TYPICAL DEVICES INDICATED)

FIRE ALARM SYSTEM GENERAL NOTES:

- THE DEVICES SHOWN ON THE RISER DIAGRAM ARE REPRESENTATIVE OF THOSE TO BE PROVIDED THROUGHOUT THE BUILDING. ALL DEVICES ON THE RISER MAY NOT BE USED ON ALL PROJECTS. THEY ARE NOT INTENDED TO SHOW TOTAL QUANTITIES OF DEVICES. THE CONTRACTOR SHALL REFER TO THE FLOOR PLANS FOR THIS INFORMATION.
- THE RISER DIAGRAM SHOWS THE INTENT OF THESE SPECIFICATIONS AND SHALL BE USED AS A BASIS OF DESIGN. THE CONDUIT SIZING, TYPES AND QUANTITY OF WIRES, SHALL BE VERIFIED WITH THE MANUFACTURER, PRIOR TO SUBMITTING A BID AND PRIOR TO INSTALLATION.
- PROVIDE PERIPHERAL, ADDRESSABLE DEVICE WIRING FOR ALL ADDRESSABLE INITIATING, INDICATING AND CONTROL DEVICES. MAINTAIN 20% SPARE CAPACITY ON ALL ADDRESSABLE COMMUNICATION CHANNELS AND NOTIFICATION CIRCUITS.
- ALL ADDRESSABLE CONTROL RELAYS AND MONITOR MODULES SHALL BE INSTALLED WITHIN 36" OF THE CONTROLLED OR MONITORED DEVICE. UNLESS OTHERWISE NOTED, ADDRESSABLE CONTROL RELAYS SHALL NOT ACTIVATE THE REQUIRED EMERGENCY CONTROL FUNCTION ON LOSS OF ADDRESSABLE CONTROL RELAY'S OPERATIONAL POWER. ADDRESSABLE CONTROL RELAYS USED TO SWITCH ANY VOLTAGE GREATER THAN 24VDC, REGARDLESS OF CONTACT RATING, SHALL USE A LISTED ISOLATION RELAY BETWEEN THE ADDRESSABLE CONTROL RELAY AND THE SWITCHED VOLTAGE. THE ISOLATION RELAY SHALL BE POWERED BY FACU 24VDC AND ITS CONTACTS RATED FOR THE SPECIFIC CONTROL APPLICATION. WHEN CONTROLLING AN ISOLATION RELAY FROM AN ADDRESSABLE DEVICE, THE ISOLATION RELAY BECOMES THE CONTROLLED DEVICE AND MUST BE WITHIN 36" OF THE ADDRESSABLE DEVICE. THE INTERFACE FROM THE ISOLATION RELAY TO THE CONTROLLED SYSTEM OR DEVICE HAS NO CODE DRIVEN DISTANCE LIMITATIONS.
- ALL CONTROL CABINETS SHALL BE GROUNDED, PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS.
- REFER TO FIRE ALARM SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO DRAWINGS FOR DEVICE LOCATIONS.
- SMOKE DETECTORS SHALL NOT BE PLACED IN AREAS WHERE AIRFLOW PREVENTS PROPER OPERATION; DETECTORS SHOULD NOT BE LOCATED CLOSER THAN 36" FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.

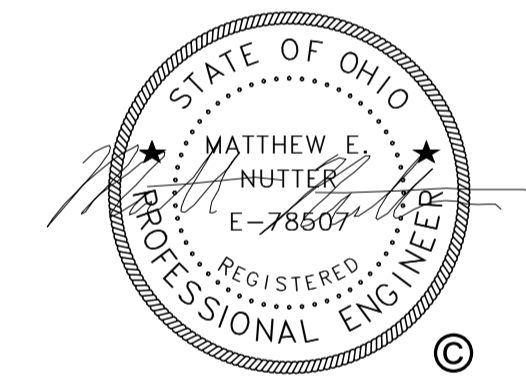
FIRE ALARM SYSTEM ABBREVIATION DEFINITIONS:	
ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
BAS	BUILDING AUTOMATION SYSTEM
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
EC	ELECTRICAL CONTRACTOR
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACU	FIRE ALARM CONTROL UNIT
S	SPRINKLER WATERFLOW SWITCH
NAC	NOTIFICATION APPLIANCE CONTROL PANEL
NET	FIRE ALARM DEDICATED NETWORK (NOT SITE LOCAL AREA NETWORK)
N / O	NORMALLY OPEN (REFERRING TO RELAY CONTACTS)
PIV	SPRINKLER POST INDICATOR VALVE
POTS	PLAIN OLD TELEPHONE SERVICE (VOICE-GRADE, ANALOG)
PS	SPRINKLER PRESSURE SWITCH
R	RELAY ISOLATION -- 24VDC, SPST
RAI	REMOTE ALARM INDICATOR -- SINGLE LED ALARM OR "OFF-NORMAL" INDICATOR
RTS	REMOTE TEST STATION -- COMPRISED OF KEYPED TEST SWITCH AND LED
SPD	SURGE PROTECTION DEVICE
TS	SPRINKLER TAMPER SWITCH
WS	FIRE ALARM COMPUTER WORK STATION

(X) FIRE ALARM SYSTEM RISER PLAN NOTES:

- FACU: WHERE FLUSH MOUNTED CONTROL UNITS ARE SPECIFIED, (3) ADDITIONAL 3/4" CONDUITS SHALL BE STUBBED OUT INTO ACCESSIBLE CEILING SPACE FOR FUTURE USE. CONDUITS SHALL INCLUDE INSULATED BUSHING AND PULL STRING.
- OVERCURRENT PROTECTIVE DEVICE: 20 / 1, WITH "LOCK-ON" CLIP, 2 #12, 1 # 12G, 3 / 4" C. USE LEGALLY REQUIRED POWER. MAINTAIN SEPARATION OF LOW VOLTAGE AND 120 VAC WIRING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. PENETRATE CABINET ONLY IN THE KNOCKOUT SHOWN BY THE MANUFACTURER FOR 120 VAC. LIMITING AND NON-LIMITING WIRING SHALL NOT BE BUNDLED TOGETHER.
- PROVIDE AN NFPA 72 COMPLIANT MEANS FOR SUPERVISING STATION COMMUNICATIONS.
- PROVIDE A FAAP LOCATED AT THE FIRE DEPARTMENT RESPONSE POINT(S) AND OTHER LOCATIONS, AS SHOWN ON FLOOR PLANS.
- VISUAL NOTIFICATION APPLIANCES SHALL BE SET PER NFPA 72.
- NAC: PROVIDE NAC WHERE SHOWN ON ON FLOOR PLANS. IF ADDITIONAL PANELS ARE REQUIRED, PROVIDE AT APPROVED LOCATIONS.
- PROVIDE A SMOKE DETECTOR OVER ALL FACU, NAC, AND SIMILAR PANELS.
- THE TYPE OF DEVICE AT THIS LOCATION WILL DEPEND ON THE MANUFACTURER'S EQUIPMENT. NOTHING IN THE DESIGN DOCUMENTS IS INTENDED, NOR SHOULD IT BE CONSTRUED, TO LIMIT THE TYPES OF DEVICES THAT MAY BE USED, PROVIDED THE INTENDED SYSTEM PERFORMANCE IS ACHIEVED AND WITHIN THE UL LISTING.
- THE SIGNALING LINE CIRCUIT MAY BE T-TAPPED, PROVIDED THE LOCATION OF THE T-TAP IS CLEARLY SHOWN ON THE SHOP DRAWINGS, IS PERFORMED IN A JUNCTION BOX, AND IS MADE WITH A TERMINAL STRIP. PIG TAILING IS NOT PERMITTED.

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REV. NO.	DESCRIPTION	DATE
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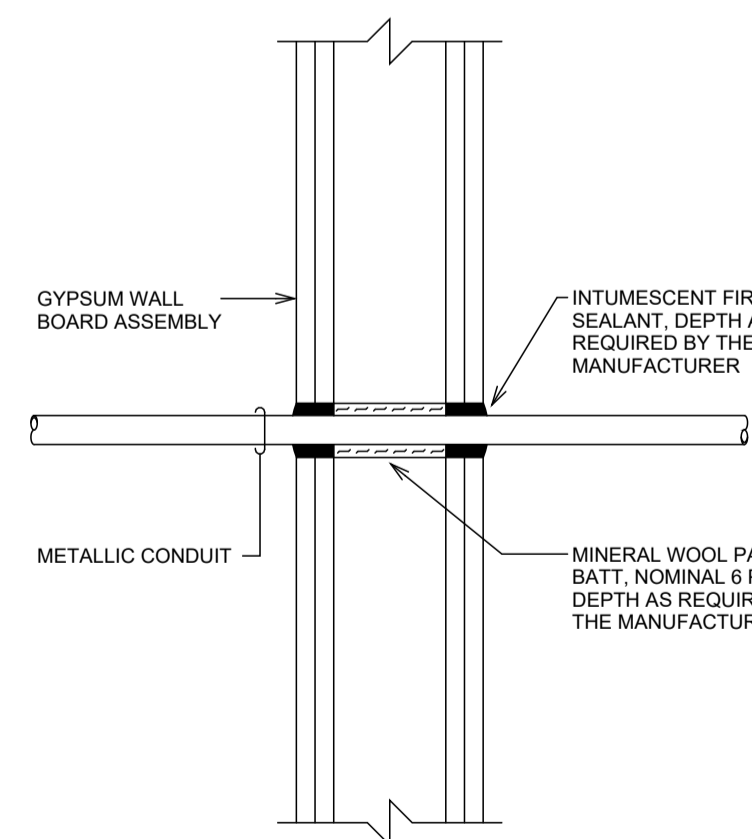


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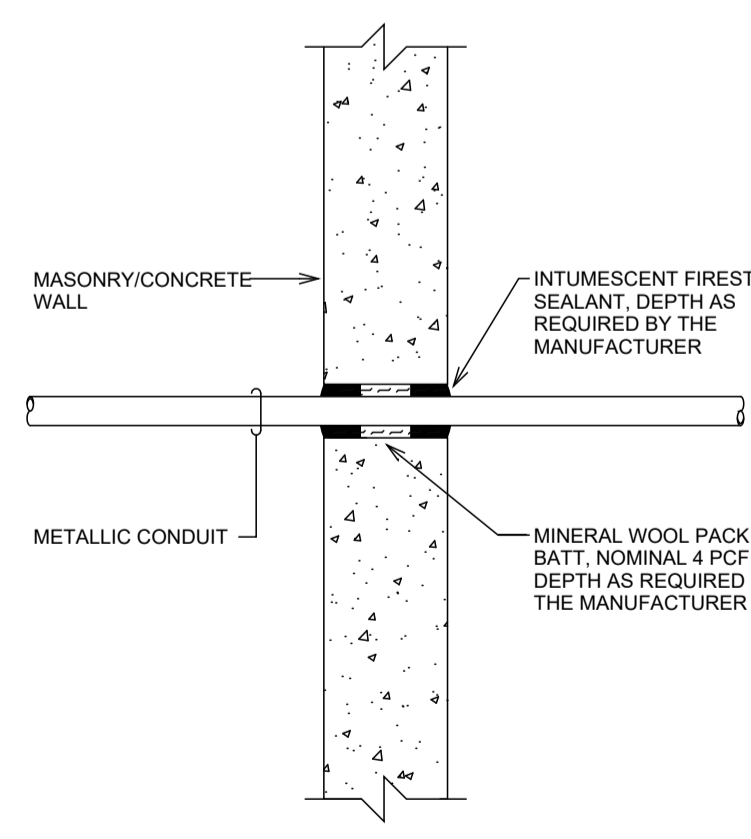
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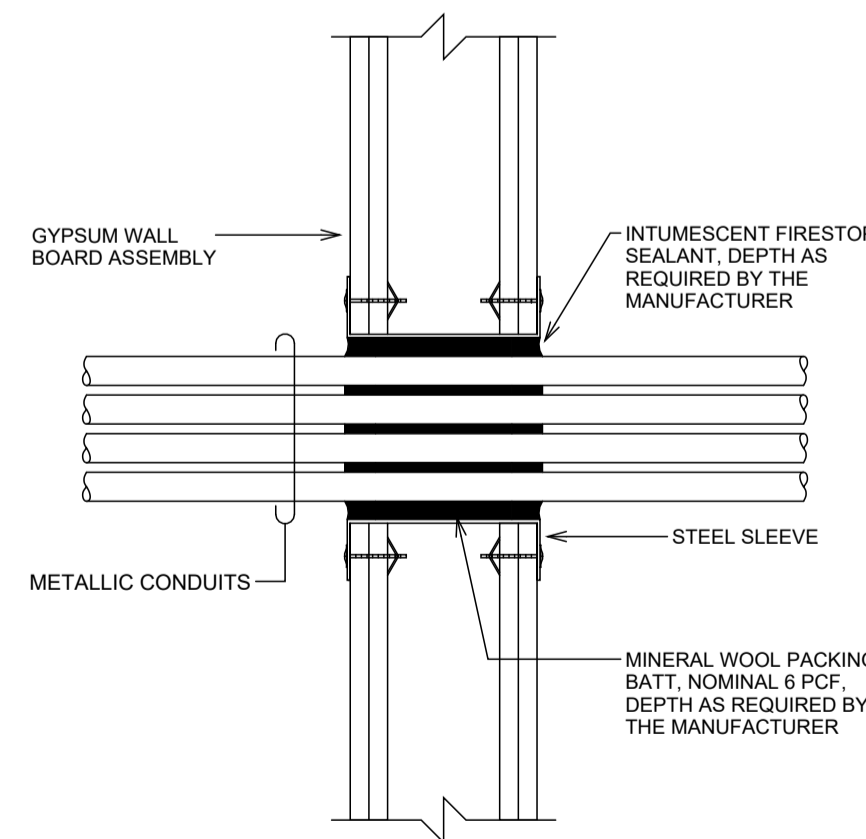
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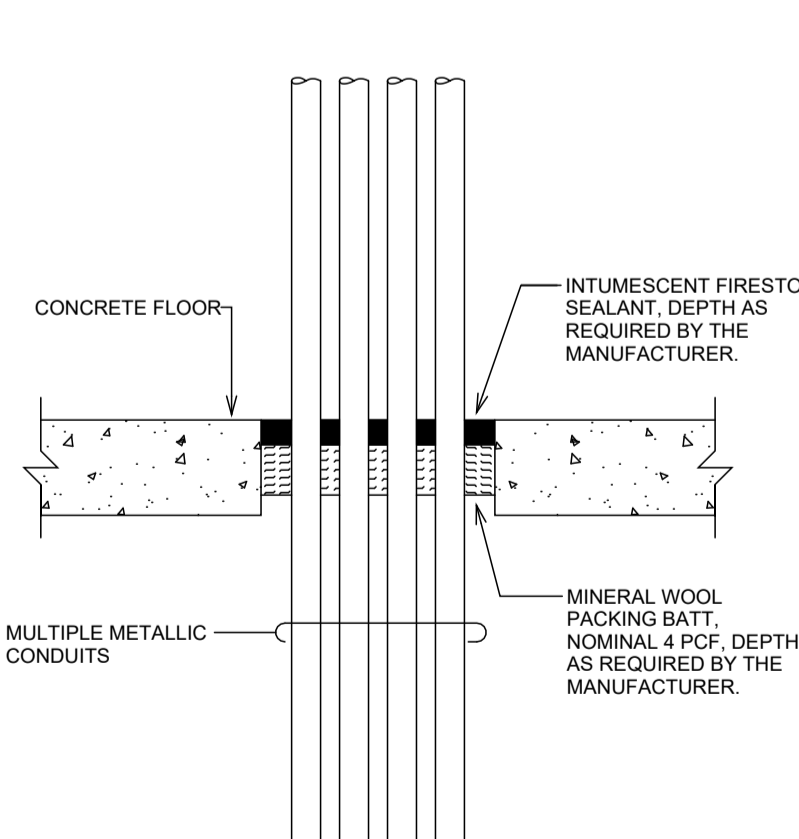
FIRESTOP FOR METALLIC CONDUIT THROUGH GYPSUM BOARD WALL
1 OR 2 HOUR RATED SCALE: NONE



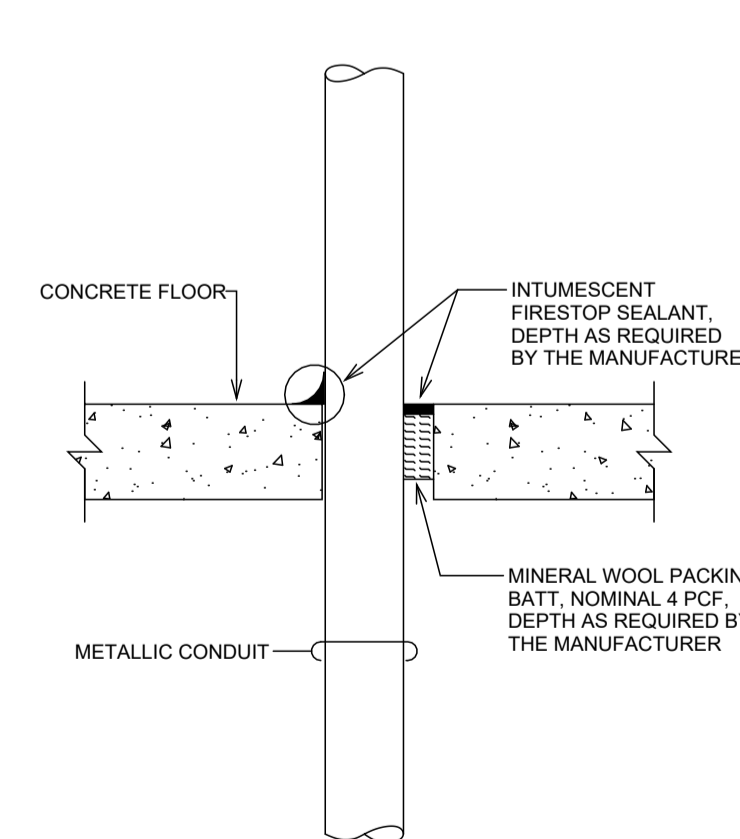
FIRESTOP FOR METALLIC CONDUIT THROUGH MASONRY/CONCRETE WALL
3 HOUR RATED SCALE: NONE



FIRESTOP FOR MULTIPLE METALLIC CONDUITS THROUGH GYPSUM BOARD WALL
1 OR 2 HOUR RATED SCALE: NONE

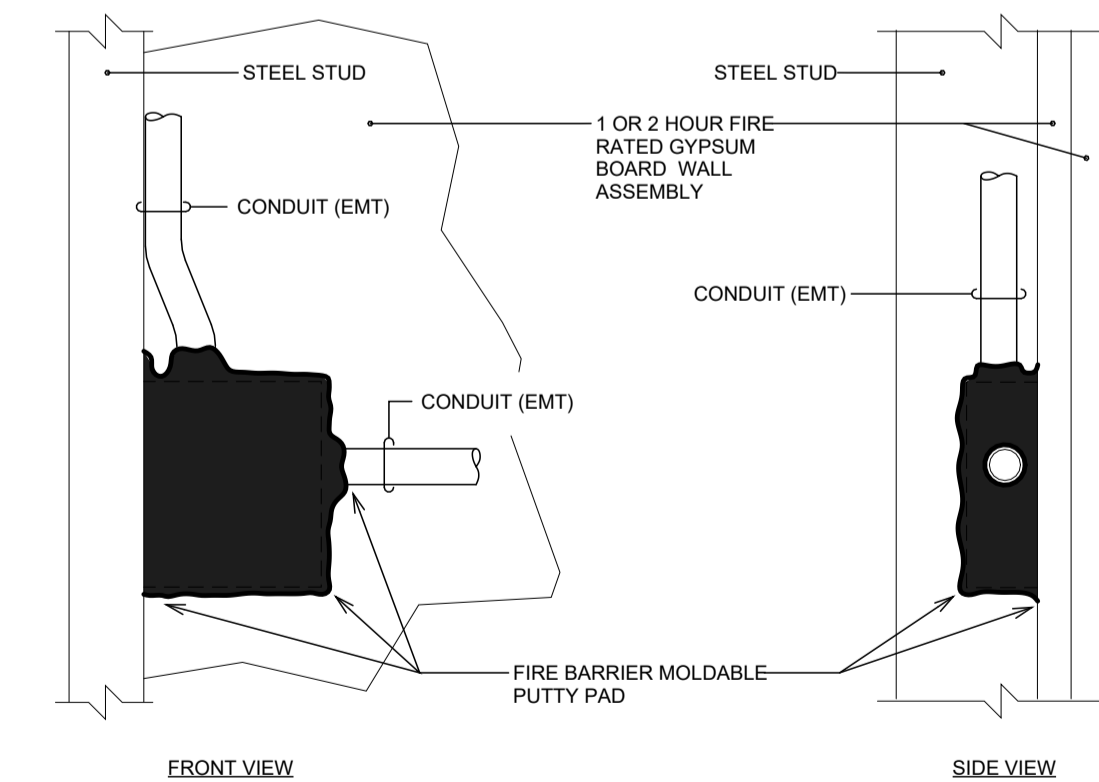


FIRESTOP FOR MULTIPLE METALLIC CONDUITS THROUGH CONCRETE FLOOR
SCALE: NONE



FIRESTOP FOR METALLIC CONDUIT THROUGH CONCRETE FLOOR
SCALE: NONE

- DETAIL NOTE**
- AT POINT CONTACT APPLY 3/8" COVE BEAD OF SEALANT BETWEEN PIPE AND TOP SURFACE OF CONCRETE.



ELECTRICAL BOX FIRESTOP DETAIL
SCALE: NONE

APPLIES TO BOXES GREATER THAN 4" SQUARE IN FIRE RATED WALLS, OR IF MULTIPLE 4" BOXES ARE LOCATED WITHIN 24" IN THE SAME FIRE RATED WALL.

- DETAIL NOTE**
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL MOLDABLE PUTTY PADS FOR USE WITH FLUSH UL LISTED METALLIC ELECTRICAL BOXES. MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE BOX WITHIN THE STUD CAVITY. PROVIDE PUTTY MATERIAL TO PLUG THE END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT AT ITS CONNECTION TO THE BOX. A MINIMUM 1/8" THICKNESS OF PUTTY MATERIAL IS REQUIRED ON THE EXTERIOR SURFACES OF FLUSH BOXES IN 1 AND 2 HR FIRE RATED ASSEMBLIES. WHEN THE MOLDABLE PUTTY PAD MATERIAL IS USED AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24" PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK.

Lighting and Appliance Panelboard: LT-1

Location: Volts: 120/208 Wye A.I.C. Rating: 22 KAIC
 Supply From: Phases: 3 Mains Type: MCB
 Mounting: Surface Wires: 4 Bus Rating: 400 A
 MCB Rating: 400 A

GENERAL NOTES: PANEL SHALL SUPPLY RESTAURANT/ TENANT 1 SPACE

Notes	CKT	Circuit Description	Trip Amps	Poles	A	B	C	Poles	Trip Amps	Circuit Description	CKT	Notes
	1	REC	20	1	0.4	0.6		1	20	REC	2	
	3	REC	20	1		0.6	0.6	1	20	REC	4	
	5	REC	20	1			0.4	0.9	1	20	LTG	6
	7	REC FIRST FLOOR RR & CORR.	20	1	0.8	0.4			1	20	LTG TENANT 1	8
	9	Spare	20	1		0.0	0.0		1	20	Spare	10
	11	Spare	20	1			0.0	0.0	1	20	Spare	12
	13	Spare	20	1	0.0	0.0			1	20	Spare	14
	15	Spare	20	1		0.0	0.0		1	20	Spare	16
	17	Spare	20	1			0.0	0.0	1	20	Spare	18
	19	Spare	20	1	0.0	0.0			1	20	Spare	20
	21	Spare	20	1		0.0	0.0		1	20	Spare	22
	23	Spare	20	1			0.0	0.0	1	20	Spare	24
	25	Spare	20	1	0.0	0.0			1	20	Spare	26
	27	Spare	20	1		0.0	0.0		1	20	Spare	28
	29	Spare	20	1			0.0	0.0	1	20	Spare	30
	31	Spare	20	1	0.0	0.0			1	20	Spare	32
	33	Spare	20	1		0.0	0.0		1	20	Spare	34
	35	Spare	20	1			0.0	0.0	1	20	Spare	36
	37	Spare	20	1	0.0	0.0			1	20	Spare	38
	39	Spare	20	1		0.0	0.0		1	20	Spare	40
	41	Spare	20	1			0.0	0.0	1	20	Spare	42
	43	Spare	20	1	0.0	0.0			1	20	Spare	44
	45	Spare	20	1		0.0	0.0		1	20	Spare	46
	47	Spare	20	1			0.0	0.0	1	20	Spare	48
	49	Spare	20	1	0.0	0.0			1	20	Spare	50
	51	Spare	20	1		0.0	0.0		1	20	Spare	52
	53	Spare	20	1			0.0	0.0	1	20	Spare	54
	55	Spare	20	1	0.0	0.0			1	20	Spare	56
	57	EF-1-1	20	1		0.1	0.0		1	20	ECH-3	58
	59	EF-1-2	20	1			0.1	1.8	1	20	ECH-3	60
	61	F-1-2	20	1	1.9	1.8			1	20	ECH-4	62
	63	F-1-1	20	1		1.7	1.5		2	20	ECH-4	64
	65	F-1-3	20	1			1.7	1.5	2	20	ECH-4	66
	67											68
	69	EBH-1-1, EBH-1-2, EBH-1-3, EBH-1-4	20	3		0.9	0.8		3	20	EBH-5, EBH-6, EBH-7, EBH-8	70
	71						0.9	0.8				72
	73				0.8	1.8			3	35	CU-1-3	74
	75	EBH-8, EBH-9, EBH-10	20	3		0.8	1.8					76
	77						0.8	1.8				78
	79				1.8	2.0			3	35	CU-1-2	80
	81	CU-1-1	35	3		1.8	2.0					82
	83					1.8	2.0					84

Total Load: 13.9 kW 12.4 kW 14.3 kW
 Total Amp: 117 A 103 A 121 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	35784 VA	100.00%	35784 VA	
LTG	1300 VA	100.00%	1300 VA	Total Conn. Load: 40.5 kW
REC	3400 VA	100.00%	3400 VA	Total Est. Demand: 40.5 kW
				Total Conn.: 112 A
				Total Est. Demand: 112 A

Panel Schedule Notes:

Lighting and Appliance Panelboard: BS-A

Location: Volts: 120/208 Wye A.I.C. Rating: 22 KAIC
 Supply From: Phases: 3 Mains Type: MCB
 Mounting: Surface Wires: 4 Bus Rating: 150 A
 MCB Rating: 150 A

GENERAL NOTES: PANEL SHALL SUPPLY BASEMENT SUITE A SPACE

Notes	CKT	Circuit Description	Trip Amps	Poles	A	B	C	Poles	Trip Amps	Circuit Description	CKT	Notes
	1	RECEPTACLES	20	1	0.6	0.2		1	20	LIGHTING	2	
	3	RECEPTACLES	20	1		0.6	0.0	1	20	Spare	4	
	5	RECEPTACLES	20	1			0.4	0.0	1	20	Spare	6
	7	Spare	20	1	0.0	0.0			1	20	Spare	8
	9	Spare	20	1		0.0	0.0		1	20	Spare	10
	11	Spare	20	1			0.0	0.0	1	20	Spare	12
	13	Spare	20	1	0.0	0.0			1	20	Spare	14
	15	Spare	20	1		0.0	0.0		1	20	Spare	16
	17	Spare	20	1			0.0	0.0	1	20	Spare	18
	19	Spare	20	1	0.0	0.0			1	20	Spare	20
	21	Spare	20	1		0.0	0.0		1	20	Spare	22
	23	Spare	20	1			0.0	0.0	1	20	Spare	24
	25	Spare	20	1	0.0	0.0			1	20	Spare	26
	27	Spare	20	1		0.0	0.0		1	20	Spare	28
	29	Spare	20	1			0.0	0.0	1	20	Spare	30
	31	Spare	20	1	0.0	0.0			1	20	Spare	32
	33	Spare	20	1		0.0	0.0		1	20	Spare	34
	35	Spare	20	1			0.0	0.0	1	20	Spare	36
	37	ACP-1	20	1	0.2	0.3			1	20	Spare	38
	39	ECH-1	20	1		1.8	0.3		3	20	EBH-0-1 & EBH-0-2	40
	41	EF-0-10	20	1			0.2	0.3				42

Total Load: 1.3 kW 2.7 kW 0.9 kW
 Total Amp: 12 A 23 A 8 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	3200 VA	100.00%	3200 VA	
LTG	203 VA	100.00%	203 VA	Total Conn. Load: 5.0 kW
REC	1600 VA	100.00%	1600 VA	Total Est. Demand: 5.0 kW
				Total Conn.: 14 A
				Total Est. Demand: 14 A

Panel Schedule Notes:

Lighting and Appliance Panelboard: BS-B

Location: Volts: 120/208 Wye A.I.C. Rating: 22KAIC
 Supply From: Phases: 3 Mains Type: MCB
 Mounting: Surface Wires: 4 Bus Rating: 150 A
 MCB Rating: 150 A

GENERAL NOTES: PANEL SHALL SUPPLY BASEMENT SUITE B SPACE

Notes	CKT	Circuit Description	Trip Amps	Poles	A	B	C	Poles	Trip Amps	Circuit Description	CKT	Notes
	1	RECEPTACLES	20	1	0.4	0.3		1	20	LIGHTING	2	
	3	RECEPTACLES	20	1		0.6	0.1	1	20	LIGHTING	4	
	5	RECEPTACLES	20	1			0.8	0.0	1	20	Spare	6
	7	RECEPTACLES	20	1	0.6	0.0			1	20	Spare	8
	9	Spare	20	1		0.0	0.0		1	20	Spare	10
	11	Spare	20	1			0.0	0.0	1	20	Spare	12
	13	Spare	20	1	0.0	0.0			1	20	Spare	14
	15	Spare	20	1		0.0	0.0		1	20	Spare	16
	17	Spare	20	1			0.0	0.0	1	20	Spare	18
	19	Spare	20	1	0.0	0.0			1	20	Spare	20
	21	Spare	20	1		0.0	0.0		1	20	Spare	22
	23	Spare	20	1			0.0	0.0	1	20	Spare	24
	25	Spare	20	1	0.0	0.0			1	20	Spare	26
	27	Spare	20	1		0.0	0.0		1	20	Spare	28
	29	Spare	20	1			0.0	0.0	1	20	Spare	30
	31	Spare	20	1	0.0	0.0			1	20	Spare	32
	33	EF-0-2	20	1		0.2	1.8		1	20	ECH-2	34
	35	DWH-01	30	1			2.5	0.5	1	20	RHWP-01	36
	37				0.7	0.4						38
	39	EBH-0-4 & EBH-0-5	20	3		0.7	0.4		3	20	EBH-0-3 & EBH-0-6	40
	41						0.7	0.4				42

Total Load: 2.4 kW 3.8 kW 4.9 kW
 Total Amp: 20 A 33 A 43 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	8328 VA	100.00%	8328 VA	
LTG	386 VA	100.00%	386 VA	Total Conn. Load: 11.1 kW
REC	2400 VA	100.00%	2400 VA	Total Est. Demand: 11.1 kW
				Total Conn.: 31 A
				Total Est. Demand: 31 A

Panel Schedule Notes:

Lighting and Appliance Panelboard: LH-1

Location: Volts: 120/208 Wye A.I.C. Rating: 22 KAIC
 Supply From: Phases: 3 Mains Type: MLO
 Mounting: Surface Wires: 4 Bus Rating: 150 A
 MCB Rating: -

GENERAL NOTES:

Notes	CKT	Circuit Description	Trip Amps	Poles	A	B	C	Poles	Trip Amps	Circuit Description	CKT	Notes		
	1	REC FIRST FLOOR CORR.	20	1	0.4	0.0		1	20	LTG FIRST FLOOR EMERGENCY	2			
	3	REC SECOND FLOOR CORR.	20	1		0.8	0.3	1	20	LTG FIRST FLOOR NORMAL	4			
	5	REC SECOND FLOOR RR & CORR.	20	1			0.8	0.0	1	20	LTG SECOND FLOOR EMERGENCY	6		
	7	REC	20	1	0.6	0.4			1	20	LTG SECOND FLOOR NORMAL	8		
	9	REC	20	1			0.6	0.0	1	20	LTG THIRD FLR & ROOF EMERGENCY	10		
	11	REC	20	1				0.6	0.1	1	20	LTG THIRD FLR & ROOF NORMAL	12	
	13	Spare	20	1	0.0	0.3			1	20	LTG	14		
	15						1.7	0.0	1	20	Spare	16		
	17	ECH-10	20	3				1.7	1.7			18		
	19				1.7	1.7			3	20	ECH-11	20		
	21	EF-2-1	20	1		0.2	1.7					22		
	23	EF-2-3	20	1			0.2	0.2	1	20	EF-2-3	24		
	25				0.5	0.7						26		
	27	EBH-2-14, EBH-2-15 & EBH-2-16	20	3		0.5	0.7		3	20	EBH-2-10, EBH-2-11, EBH-2-12 & EBH-2-13	28		
	29						0.5	0.7				30		
	31				1.5	0.5			1	20	RHWP-02	32		
	33	EUH-1	20	2		1.5	2.5		1	30	DWH-02	34		
	35	CU-0-3	20	2		1.4	1.8		1	20	ECH-5	36		
	37							1.4	1.8	1	20	ECH-6	38	
	39	CU-0-1	20	2		1.4	1.4		2	20	CU-0-2	40		
	41							1.4	1.4			42		

Total Load: 11.4 kW 13.2 kW 12.4 kW
 Total Amp: 95 A 111 A 104 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	31965 VA	100.00%	31965 VA	
LTG	1177 VA	100.00%	1177 VA	Total Conn. Load: 36.9 kW
REC	3800 VA	100.00%	3800 VA	Total Est. Demand: 36.9 kW

EQUIPMENT TAG		DISCHARGE	SUPPLY AIR							COOLING COIL									
ABBREV.	MARK		TOTAL CFM	MIN OA CFM	TSP (°WC)	ESP (°WC)	TYPE	DRIVE	MOTOR HP	VOLT	PH	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	REFRIG. TYPE	EER
RTU	1	VERTICAL	6000	825	2.2	2.0	FC	DIRECT	5.0	208	3	228	157	79.2	65.8	56.0	55.9	R410A	10.8

EQUIPMENT TAG		HEATING SECTION				COMPRESSOR DATA			CONDENSER DATA			FILTER			ELECTRICAL			OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS				
ABBREV.	MARK	CFM	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	EFFICIENCY (%)	NO (EA)	HP (EA)	CAPACITY STEPS (%)	NO. FANS (EA)	HP (EA)	AAT (°F)	TYPE	MERV	DEPTH (IN)	VOLT	PH	MCA	MOP					
RTU	1	6000	400	324	49.7	91.1	80	2	-	100%/50%	4	-	95	PLEATED	8	4"	208	3	117	125	2179	DAIKIN	DFG2403WH00007C		

- NOTES:
A. SUPPLY FAN TSP IS TO INCLUDE DIRTY APD OF ALL FILTERS.
B. SUPPLY FAN SHALL BE PROVIDED WITH PHASE LOSS PROTECTION
C. HEIGHT OF CURB SHALL BE A MINIMUM OF 18" OR 12" ABOVE FINISHED ROOF SURFACE (WHICHEVER IS GREATER)
D. INTEGRAL DISCONNECT SWITCH
E. TWO-STAGES OF COOLING FOR CAPACITY CONTROL, TWO STAGE GAS HEAT
F. 7 DAY PROGRAMMABLE THERMOSTAT
G. FIELD INSTALLED LOW-LEAK ECONOMIZER W/ ENTHALPY ECONOMIZER AND MODULATING POWERED EXHAUST
H. FOIL FACED INTERNAL INSULATION
I. UV-RESISTANT POWDER-PAINT FINISH
J. HEAVY-GAUGE, GALVANIZED-STEEL CABINET
K. DIRECT DRIVE FAN MOTOR
L. ALUMINIZED HEAT EXCHANGER
M. HIGH AND LOW-PRESSURE SWITCHES
N. HIGH-CAPACITY, STEEL-CASED FILTER DRYER
O. NON-POWERED CONVENIENCE OUTLET
P. PROGRAMMABLE, SMART, SPACE THERMOSTAT
Q. FULL PERIMETER BASE RAIL
R. 5 YEAR PARTS WARRANTY
T. INTEGRAL RETURN AIR SMOKE DETECTOR

EQUIPMENT TAG			TYPE	FUEL	EFFICIENCY (%)	FAN DATA					HEATER DATA					COOLING COIL MARK	FILTER	MANUFACTURER	MODEL	REMARKS		
ABBREV.	FLOOR	MARK				CFM	MIN OA CFM	ESP (°WC)	MOTOR HP	VOLT	PH	EAT (°F)	LAT (°F)	INPUT (MBH)	OUTPUT (MBH)						STAGES	
F	1	1	POWERED VENT	NATURAL GAS	96	1455	125	0.5	3/4	120	1	58	90	80	76.8	2	CC-1-1	MERV 13	DAIKIN	DM96VC0804CN		
F	1	2	POWERED VENT	NATURAL GAS	96	1655	125	0.5	1	120	1	58	90	100	96	2	CC-1-1	MERV 13	DAIKIN	DM96VC1005CN		
F	1	3	POWERED VENT	NATURAL GAS	96	1455	125	0.5	3/4	120	1	58	90	80	76.8	2	CC-1-1	MERV 13	DAIKIN	DM96VC0804CN		
F	2	1	POWERED VENT	NATURAL GAS	96	1000	100	0.5	3/4	120	1	53	90	80	76.8	2	CC-2-1	MERV 13	DAIKIN	DM96VC0804CN		
F	2	2	POWERED VENT	NATURAL GAS	96	620	100	0.5	1/2	120	1	56	90	40	38.4	2	CC-2-2	MERV 13	DAIKIN	DMC96VC04003BN		
F	2	3	POWERED VENT	NATURAL GAS	96	655	75	0.5	1/2	120	1	56	90	40	38.4	2	CC-2-3	MERV 13	DAIKIN	DMC96VC04003BN		
F	2	4	POWERED VENT	NATURAL GAS	96	655	75	0.5	1/2	120	1	60	90	40	38.4	2	CC-2-4	MERV 13	DAIKIN	DMC96VC04003BN		

- NOTES:
A. DISCONNECT SWITCH BY EC.
B. 7-DAY PROGRAMMABLE THERMOSTAT

EQUIPMENT TAG		SERVICE	EER	MBH	REFRIGERANT	SUCTION TEMP. (°F)	COMPRESSOR DATA				CONDENSER DATA			ELECTRICAL			OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS	
ABBREV.	FLOOR						MARK	NO	HP (EA)	CAPACITY STEPS (%)	NO. FANS	HP (EA)	AAT (°F)	VOLT	PH	MCA					MOP
CU	0	1	FCU-0-1	11.9	18	R410A	-	1	-	14%-100%	1	-	95	208	1	16.5	20	31	DAIKIN	RZQ18TBVJUA	1
CU	0	2	FCU-0-2	11.9	18	R410A	-	1	-	14%-100%	1	-	95	208	1	16.5	20	31	DAIKIN	RZQ18TBVJUA	1
CU	0	3	FCU-0-3	11.9	18	R410A	-	1	-	14%-100%	1	-	95	208	1	16.5	20	31	DAIKIN	RZQ18TBVJUA	1
CU	1	1	F-1-1	14.5	48	R410A	-	1	-	SCROLL	1	1/4	95	208	3	18.4	35	231	DAIKIN	DXSEA4830	
CU	1	2	F-1-2	14.5	60	R410A	-	1	-	SCROLL	1	1/4	95	208	3	20.4	35	240	DAIKIN	DXSEA6030	
CU	1	3	F-1-3	14.5	48	R410A	-	1	-	SCROLL	1	1/4	95	208	3	18.4	35	231	DAIKIN	DXSEA4830	
CU	2	1	F-2-1	14.5	36	R410A	-	1	-	SCROLL	1	1/6	95	208	3	13.3	20	164	DAIKIN	DXSEA3630	
CU	2	2	F-2-2	14.3	24	R410A	-	1	-	SCROLL	1	1/6	95	208	1	15.3	25	166	DAIKIN	DXSEA2410	
CU	2	3	F-2-3	14.3	24	R410A	-	1	-	SCROLL	1	1/6	95	208	1	15.3	25	166	DAIKIN	DXSEA2410	
CU	2	4	F-2-4	14.3	24	R410A	-	1	-	SCROLL	1	1/6	95	208	1	15.3	25	166	DAIKIN	DXSEA2410	

- NOTES:
A. REFRIGERANT PIPING SHALL BE ENGINEERED BY THE EQUIPMENT MANUFACTURER. MC SHALL WORK CLOSELY WITH THE EQUIPMENT MANUFACTURERS TO DETERMINE THE REQUIREMENTS FOR THE REFRIGERANT PIPING INCLUDING LAYOUT, ROUTING, SIZE, VALVING, ACCESSORIES AND THE NEED FOR DOUBLE SUCTION RISERS.
B. WEATHERPROOF DISCONNECT BY EC.
C. GRADE MOUNTED ON 4" CONCRETE PAD

EQUIP TAG	FLOOR	MARK	SERVICE	CFM	SIZE (IN X IN)	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	REFRIGERANT	CU MARK	MANUFACTURER	MODEL	REMARKS
CC	1	1	F-1-1	1455	30X21	50.0	26.6	71.7	65.6	55.0	54.3	R410A	CU-1-1	DAIKIN	CAPTA4961C4	
CC	1	2	F-1-2	1655	30X21	59.5	31.7	71.5	65.5	54.0	53.7	R410A	CU-1-2	DAIKIN	CAPTA4961C4	
CC	1	3	F-1-3	1455	30X21	50.0	26.6	71.7	65.6	55.0	54.3	R410A	CU-1-3	DAIKIN	CAPTA4961C4	
CC	2	1	F-2-1	1000	28.5X23.5	35.6	18.8	71.9	65.7	54.7	54.0	R410A	CU-2-1	DAIKIN	CAPTA3626C4	
CC	2	2	F-2-2	620	17.5X21	23.3	12.3	72.5	66.0	54.3	53.7	R410A	CU-2-2	DAIKIN	CAPTA2422B4	
CC	2	3	F-2-3	655	17.5X21	23.8	12.7	72.2	65.8	54.5	53.9	R410A	CU-2-3	DAIKIN	CAPTA2422B4	
CC	2	4	F-2-4	655	17.5X21	23.8	12.7	72.2	65.8	54.5	53.9	R410A	CU-2-4	DAIKIN	CAPTA2422B4	

- NOTES:
A. VERTICAL COOLING COIL FURNISHED WITH PAIRED FURNACE, REFER TO DETAIL.

EQUIPMENT TAG		TYPE	CONFIGURATION	INLET	DISCHARGE	FAN DATA				COOLING COIL			HEATING COIL		MANUFACTURER	MODEL	REMARKS		
ABBREV.	FLOOR					MARK	CFM	VOLT	PH	TOTAL MBH	EAT (DB °F)	EAT (WB °F)	REFRIGERANT	CU MARK				MBH	EAT (°F)
FCU	0	1	HEAT PUMP	WALL MOUNTED	TOP	BOTTOM	500	208	1	18	80	67	R410A	CU-0-1	13.8	70	DAIKIN	FAQ18TAVJU	
FCU	0	2	HEAT PUMP	WALL MOUNTED	TOP	BOTTOM	500	208	1	18	80	67	R410A	CU-0-2	13.8	70	DAIKIN	FAQ18TAVJU	
FCU	0	3	HEAT PUMP	WALL MOUNTED	TOP	BOTTOM	500	208	1	18	80	67	R410A	CU-0-3	13.8	70	DAIKIN	FAQ18TAVJU	

- NOTES:
A. DISCONNECT SWITCH BY EC.
B. 7-DAY PROGRAMMABLE THERMOSTAT
C. POWER FOR INDOOR UNIT IS DERIVED FROM OUTDOOR CONDENSING UNIT.

EQUIPMENT TAG		SERVICE	TYPE	CFM	SP (°WC)	RPM	ARRANGEMENT	DRIVE	BHP	MOTOR HP	VOLT	PHASE	VFD MARK	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS	
ABBREV.	FLOOR																	MARK
EF	0	1	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1
EF	0	2	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1
EF	1	1	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1
EF	1	2	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1
EF	2	1	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1
EF	2	2	JANITOR CLOSET	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	2
EF	2	3	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1
EF	3	1	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1
EF	3	2	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1
EF	4	1	TOILET ROOM	CEILING	100	0.5	900	CEILING	DIRECT	0.03	-	120	1	ECM	24	GREENHECK	SP-A220	1

- NOTES:
A. DISCONNECT SWITCH, INTEGRAL WITH FAN
B. ELECTRICALLY COMMUTATED MOTOR (ECM) WITH VARIABLE SPEED CONTROLLER
C. GRAVITY BACKDRAFT DAMPER

- REMARKS:
1. CONTROLLED BY WALL SWITCH
2. TIME CLOCK CONTROLLED

EQUIPMENT TAG		LOCATION	MANUFACTURER	MODEL	FRAME/BORDER	MODULE SIZE	SLOTS		PATTERN	DAMPER MODEL	FINISH	REMARKS
ABBREV.	TYPE						NO.	WIDTH (IN)				
R	1	DUCT MTD	TITUS	350RL	SURFACE	SEE PLANS	-	-	35 DEG DEFLECT	-	WHITE	-
R	2	WALL	TITUS	350RL	SURFACE	SEE PLANS	-	-	35 DEG DEFLECT	-	WHITE	-
S	1	DUCT MTD	TITUS	S300FL	SURFACE	SEE PLANS	-	-	DBL DEFLECT	AS	WHITE	-
S	3	WALL	TITUS	300RL	SURFACE	SEE PLANS	-	-	DBL DEFLECT	-	WHITE	-

SERVICE	TYPE	THICKNESS
SUPPLY DUCTWORK CONCEALED AND ABOVE CEILING	WRAP FRK	2"
SUPPLY DUCTWORK VISIBLE ABOVE GRID TYPE CEILING	WRAP PSK	1-1/2"
SUPPLY DUCTWORK IN RETURN AIR PLENUMS	WRAP FRK	1-1/2"
SUPPLY DUCTWORK IN MECHANICAL ROOMS	RIGID ASJ	2"
OUTSIDE AIR DUCTWORK CONCEALED AND ABOVE CEILING	WRAP FRK	2"
OUTSIDE AIR DUCTWORK IN MECHANICAL ROOMS AND EXPOSED	RIGID ASJ	2"
EXHAUST DUCTWORK CONCEALED AND ABOVE CEILING (SEE NOTES)	WRAP FRK	1-1/2"
EXHAUST DUCTWORK EXPOSED OR IN MECHANICAL ROOMS (SEE NOTES)	RIGID ASJ	2"
LINEAR SUPPLY DIFFUSER PLENUM BOXES	WRAP FRK	2"
LAMINAR FLOW SUPPLY DIFFUSER PLENUM BOXES	WRAP FRK	2"

- NOTES:
A. WHERE DUCTWORK, INSTALLED OUTDOORS IS INSULATED, PROVIDE WEATHERPROOF COVER AS SPECIFIED IN 23 07 00.
B. DUCTWORK LISTED IN SCHEDULE SHALL INCLUDE STRAIGHT RUNS, FITTINGS, PLENUMS, SOUND ATTENUATORS, HEATING COILS, DAMPERS AND ANY DUCT SYSTEM COMPONENTS WHERE CONDENSATION MAY FORM. WHERE DUCT HANGER/SUPPORT IS IN CONTACT WITH DUCTWORK, HANGER/SUPPORT ADJACENT TO DUCT SHALL BE INSULATED TO PREVENT CONDENSATION.
C. INSULATED DUCT ACCESS DOORS SHALL NOT BE COVERED WITH INSULATION. ADJACENT PERIMETER INSULATION SHALL BE TAPERED, WHERE REQUIRED, AND TAPED TO THE ACCESS DOOR FRAME. INSULATION SHALL BE APPLIED SUCH THAT ACCESS DOORS CAN BE OPENED WITHOUT DAMAGING ADJACENT INSULATION.
D. EXHAUST AND RELIEF DUCTWORK REQUIRE INSULATION FROM THE MOD TO THE BUILDING EXTERIOR, WHERE THE MOD IS INTEGRAL TO THE ASSOCIATED AIR HANDLING EQUIPMENT, INSULATION SHALL BE CONTINUOUS FROM THE EQUIPMENT CASING TO THE BUILDING EXTERIOR.

SERVICE	TYPE	THICKNESS TYPE
AC CONDENSATE DRAIN INSIDE BUILDING	FIBERGLASS	H
AC CONDENSATE DRAIN WITHIN AC EQUIPMENT	CLOSED-CELL	I
REFRIGERANT FOR COOLING ONLY DX SYSTEMS		
REFRIGERANT SUCTION	CLOSED-CELL	J
REFRIGERANT GAS AND HOT GAS BYPASS	CLOSED-CELL	I
REFRIGERANT LIQUID EXTERIOR TO BUILDING	CLOSED-CELL	I
REFRIGERANT FOR HEAT PUMP DX SYSTEMS		
REFRIGERANT SUCTION	CLOSED-CELL	J
REFRIGERANT GAS AND HOT GAS BYPASS	CLOSED-CELL	J
REFRIGERANT LIQUID	CLOSED-CELL	I

THICKNESS SCHEDULE TYPE	3/4 AND BELOW	1 TO 1-1/4	1-1/2 TO 3	4 TO 6	8 AND ABOVE
H	1	1	1-1/2	2	2
I	1/2	1/2	1/2	1/2	1/2
J	1/2	1	1	1	1

- NOTES:
A. WHERE PIPING, INSTALLED OUTDOORS, IS INSULATED WITH FIBERGLASS, PROVIDE WEATHERPROOF COVER AS SPECIFIED IN 23 07 00.

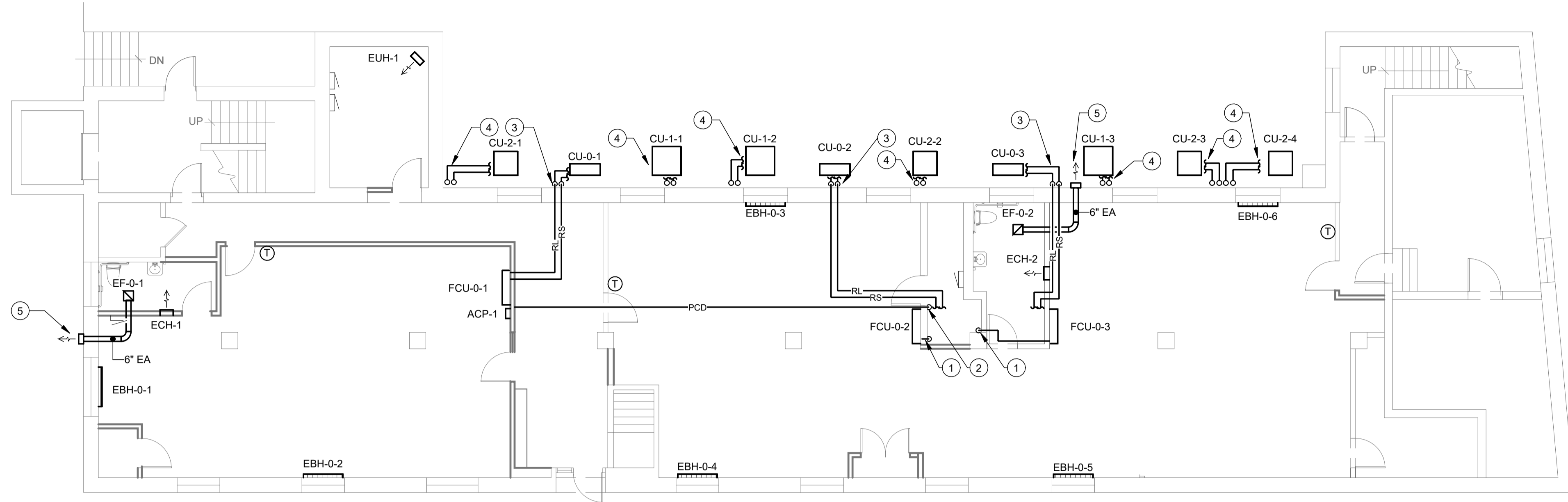
EQUIPMENT TAG		SERVICE	MAXIMUM HEAD (FT)	FLOW RATE (GPH)	PUMP HP	ELECTRICAL			VOLT	PH	MANUFACTURER	MODEL	REMARKS
ABBREV.	MARK					TYPE	DISCONNECT	OPERATION					
ACP	1	FCU-0-1	15	65	1/50	NORMAL	CORD AND PLUG	AUTOMATIC	120	1	LITTLE GIANT	VCMA-15ULS	

EQUIPMENT TAG		TYPE	CFM	KW	AMPS	VOLTAGE	PHASE	THERMOSTAT	MOUNTING	BOTTOM AFF (FT)	MANUFACTURER	MODEL	REMARKS
ABBREV.	MARK												
EUH	1	HORIZONTAL	350	3	14.5	208	1	REMOTE	WALL BRACKET	7'	QMARK	MUH03-81	
EUH	2	HORIZONTAL	350	3	14.5	208	1	REMOTE	WALL BRACKET	7'	QMARK	MUH03-81	

- NOTES:
A. AMPS INDICATE TOTAL LINE AMPERAGE, INCLUDING MOTOR AMPS
B. INTEGRAL DISCONNECT SWITCH

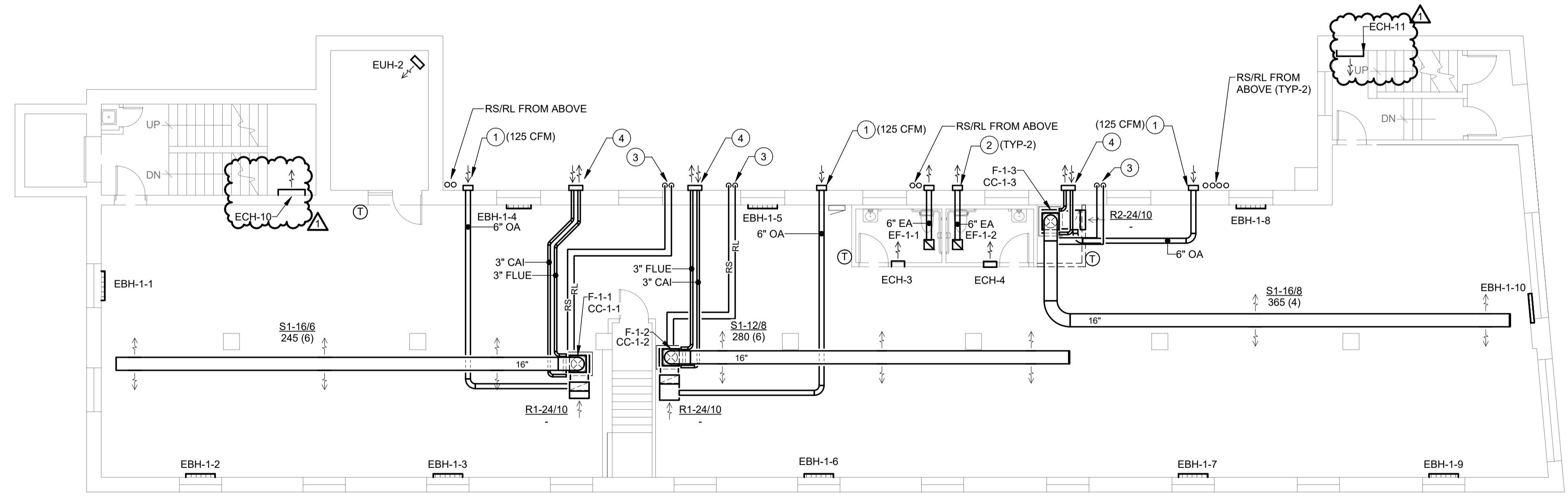
EQUIPMENT TAG		TYPE	LENGTH (IN)	KW	AMPS	VOLT	PH	THERMOSTAT	MOUNTING		MANUFACTURER	MODEL	REMARKS	
ABBREV.	FLOOR								MARK	ARRANGEMENT				BOTTOM AFF (IN)
EBH	0	1	BASEBOARD	2'-6"	0.5	2.4	208	3	REMOTE	WALL MOUNTED	4"	QMARK	20526NW	
EBH	0	2	BASEBOARD	2'-6"	0.5	2.4	208	3	REMOTE	WALL MOUNTED	4"	QMARK	20526NW	
EBH	0	3	BASEBOARD	2'-6"	0.5	2.4	208	3	REMOTE	WALL MOUNTED	4"	QMARK	20526NW	
EBH	0	4	BASEBOARD	4'-0"	1									

DRAWING LIST - HVAC	
NUMBER	NAME
H001	HVAC SYMBOL LEGEND AND GENERAL NOTES
H002	HVAC SCHEDULES
H101	BASEMENT AND FIRST FLOOR HVAC PLAN
H102	SECOND AND THIRD FLOOR HVAC PLAN
H103	ROOF HVAC PLAN
H601	HVAC DETAILS AND DIAGRAMS
H602	HVAC DETAILS AND DIAGRAMS
H603	HVAC DETAILS AND DIAGRAMS



- # **BASEMENT PLAN NOTES**
- ROUTE GRAVITY CONDENSATE DRAIN TO FLOOR DRAIN
 - ROUTE PUMPED CONDENSATE DRAIN TO FLOOR DRAIN
 - RS/RL PIPING FROM FCU ROUTED DOWN WALL TO CU
 - RS/RL PIPING TO CU
 - 6" EXHAUST WALL CAP WITH BIRD SCREEN

BASEMENT HVAC PLAN
1/8" = 1'-0"



- # **FIRST FLOOR PLAN NOTES**
- 6" OA INTAKE WALL CAP WITH BIRD SCREEN. BALANCE TO CFM INDICATED.
 - 6" EXHAUST WALL CAP WITH BIRD SCREEN.
 - RS/RL PIPING FROM FCU ROUTED DOWN WALL TO CU ON GRADE
 - 3" CAI AND 3" FLUE VENT. TERMINATE PER MFR REQUIREMENTS

FIRST FLOOR HVAC PLAN
1/8" = 1'-0"

1	ADJUDICATION ORDER	04-01-2024
REV. NO.	DESCRIPTION	DATE



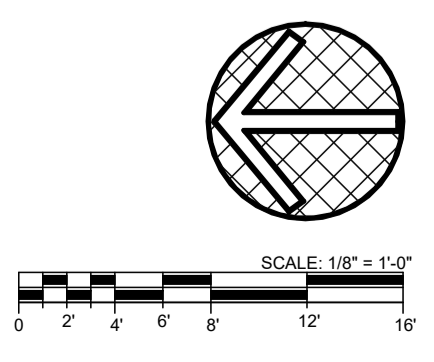
Karpinski
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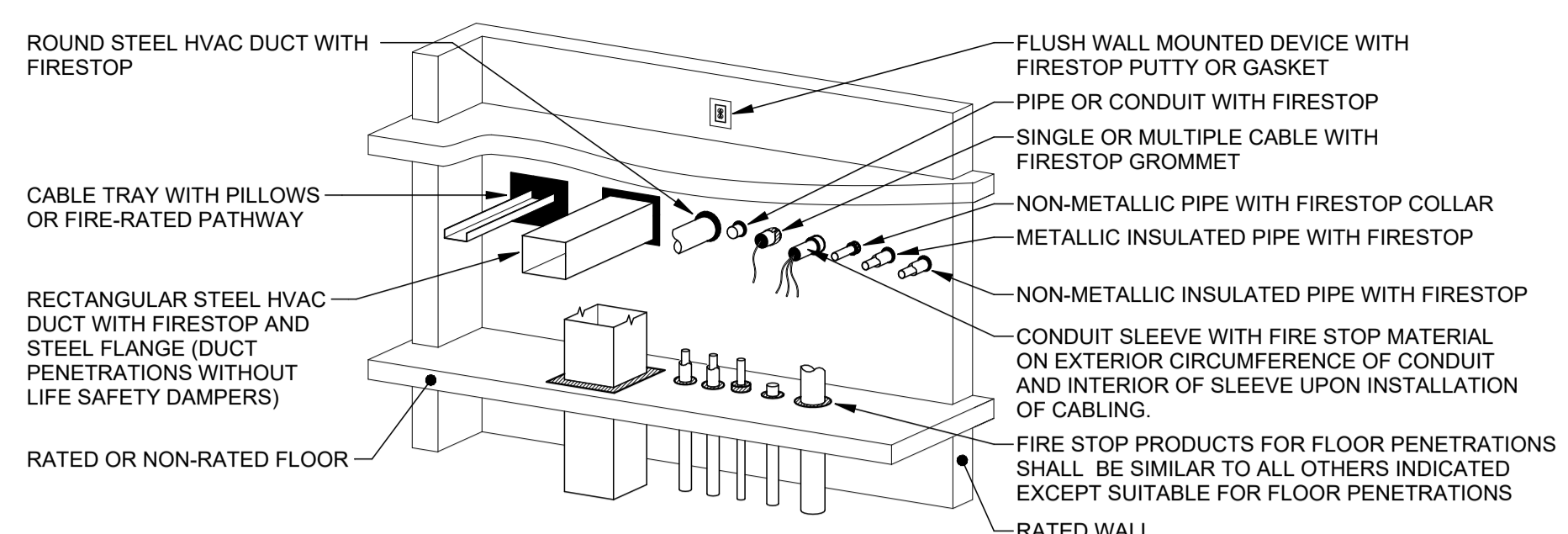
Name / Project Address
The Marlowe Building
14414 Detroit Avenue
Lakewood, Ohio 44107

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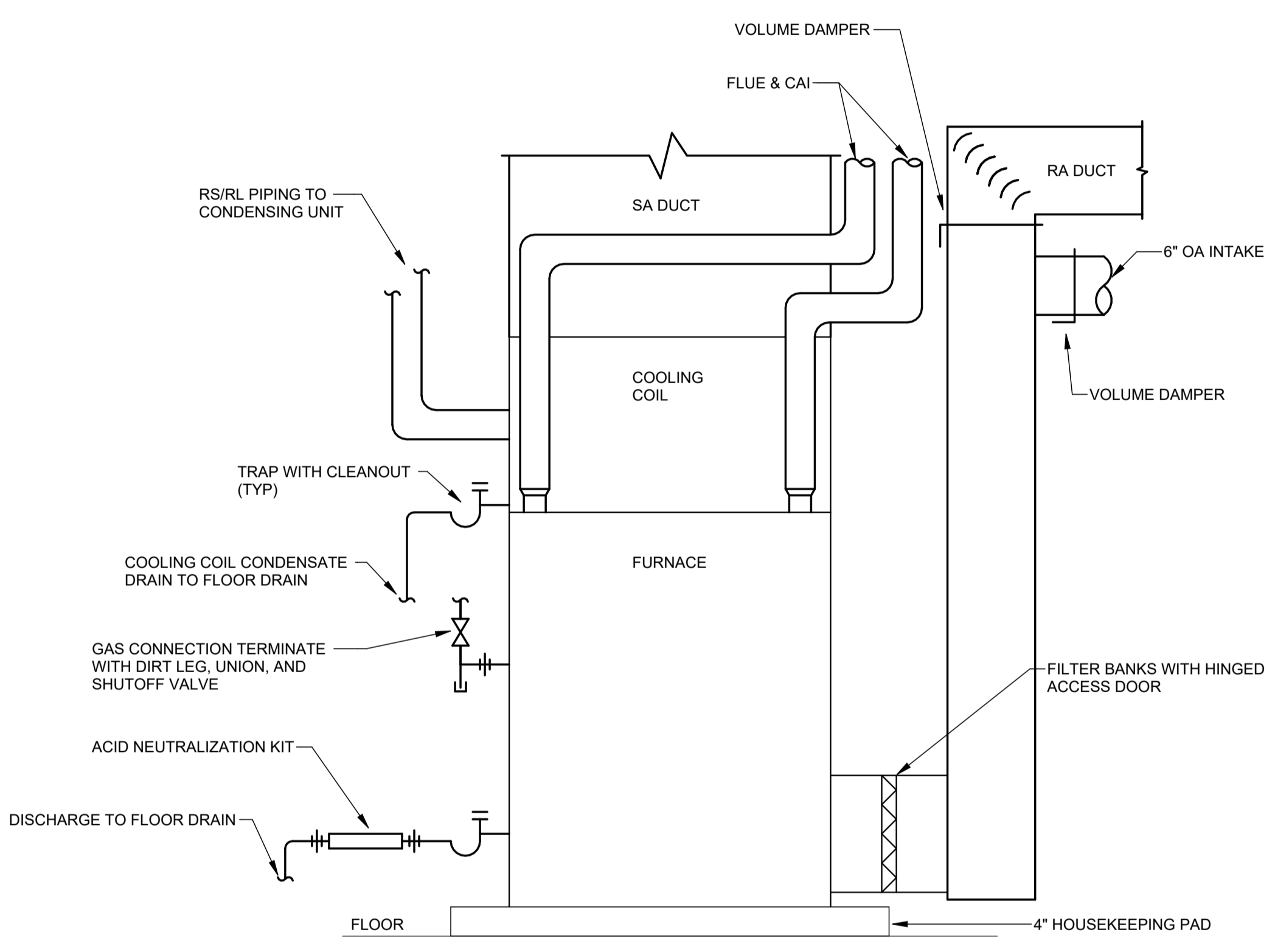
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DRAWING LIST - HVAC	
NUMBER	NAME
H001	HVAC SYMBOL LEGEND AND GENERAL NOTES
H002	HVAC SCHEDULES
H101	BASEMENT AND FIRST FLOOR HVAC PLAN
H102	SECOND AND THIRD FLOOR HVAC PLAN
H103	ROOF HVAC PLAN
H601	HVAC DETAILS AND DIAGRAMS
H602	HVAC DETAILS AND DIAGRAMS
H603	HVAC DETAILS AND DIAGRAMS

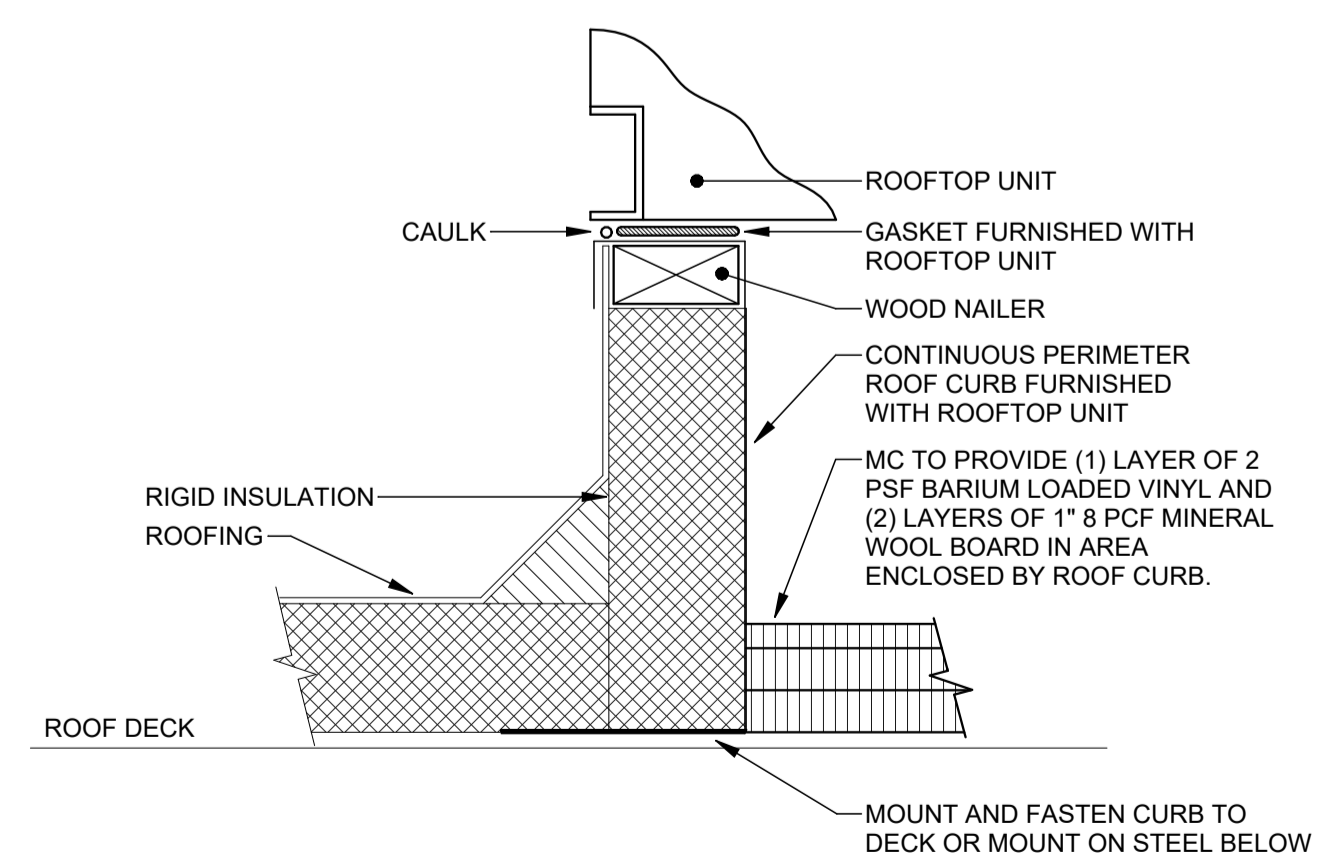


- NOTES:**
- REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS.
 - IN AN OCCUPIED BUILDING, PERMANENT FIRESTOPPING SHALL BE INSTALLED WITHIN 24 HOURS OF PENETRATING A FIRE-RATED ASSEMBLY. IF PERMANENT FIRESTOPPING CANNOT BE INSTALLED WITHIN THIS TIME PERIOD, TEMPORARY FIRESTOP PILLOWS/ BLOCKS ARE PERMITTED, WHERE INSTALLATION ALLOWS, UNTIL PERMANENT FIRESTOP MATERIALS CAN BE PROPERLY INSTALLED.
 - THIS DETAIL IS A GENERAL DEPICTION OF FIRESTOPPING CONDITIONS. SOME CONDITIONS MAY NOT APPLY TO THE PROJECT SCOPE. REFER TO APPLICABLE SPECIFICATIONS AND LIFE SAFETY DRAWINGS AND REFERENCES FOR ADDITIONAL INFORMATION.

FIRESTOPPING DETAIL
SCALE: NONE

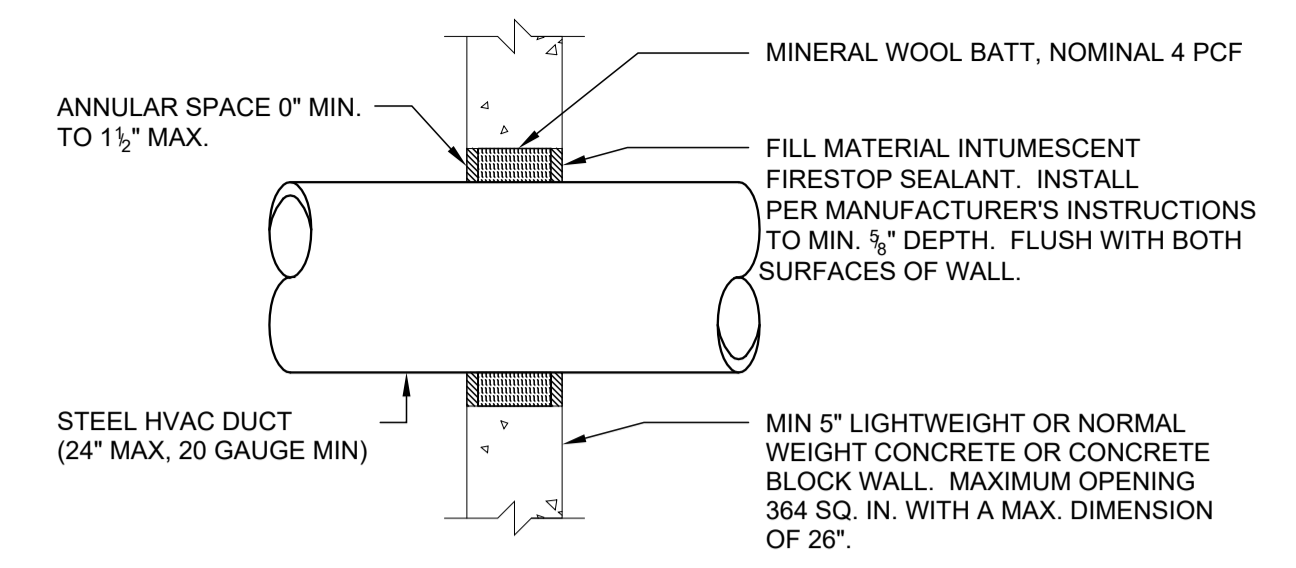


GAS FURNACE DETAIL
SCALE: NONE



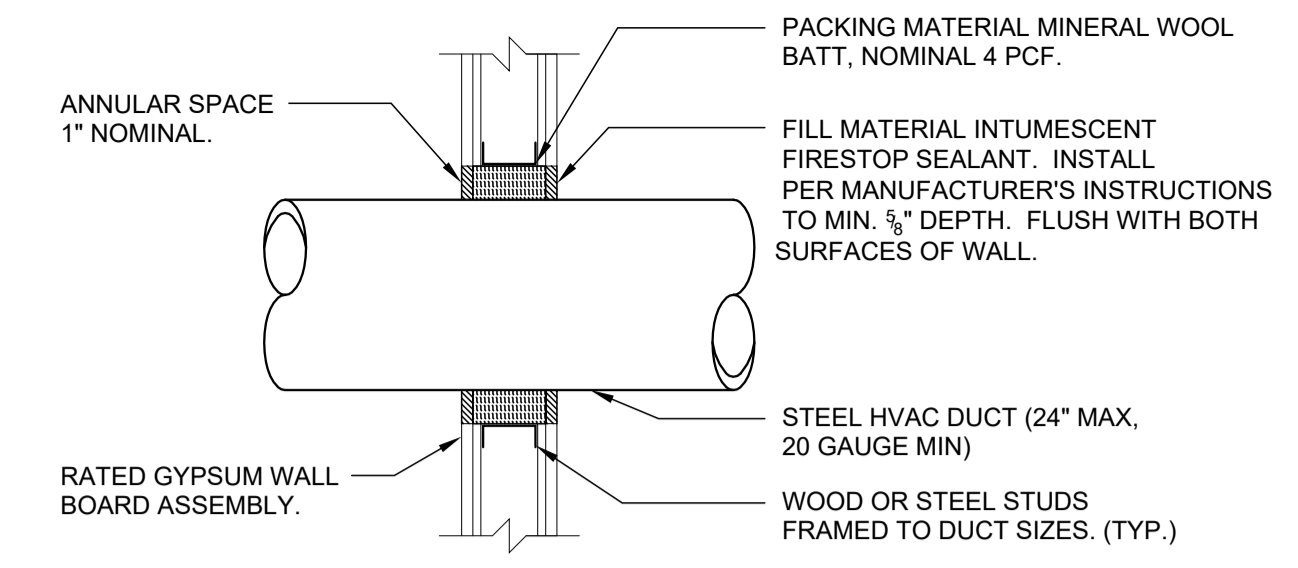
- NOTES:**
- HEIGHT OF ROOF CURB SHALL BE A MINIMUM OF 18", OR 12" ABOVE THE FINISHED ROOF SURFACE, (WHICHEVER IS GREATER)
 - ROOFTOP UNIT MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED FOR INSTALLATION AND PLACEMENT OF ROOFTOP UNIT ON CURB.

ROOFTOP AIR CONDITIONING UNIT MOUNTING DETAIL
SCALE: NONE



ROUND STEEL HVAC DUCT DETAIL
(CONCRETE WALL) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. C-AJ-7023, 2 HR. FLOOR FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - DETAIL USED FOR FUME EXHAUST HOOD SYSTEMS AND OTHER SYSTEMS WHERE FIRE DAMPERS CANNOT BE LOCATED IN DUCTWORK.
 - NOT TO BE USED FOR GREASE DUCT SYSTEMS.
 - FOR DUCT SYSTEMS THAT REQUIRE FIRE DAMPERS AT WALL PENETRATIONS, REFER TO FIRE DAMPER DETAIL VERTICAL MOUNTING.
 - STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL.
 - ROUND STEEL HVAC DUCT SHALL BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM.

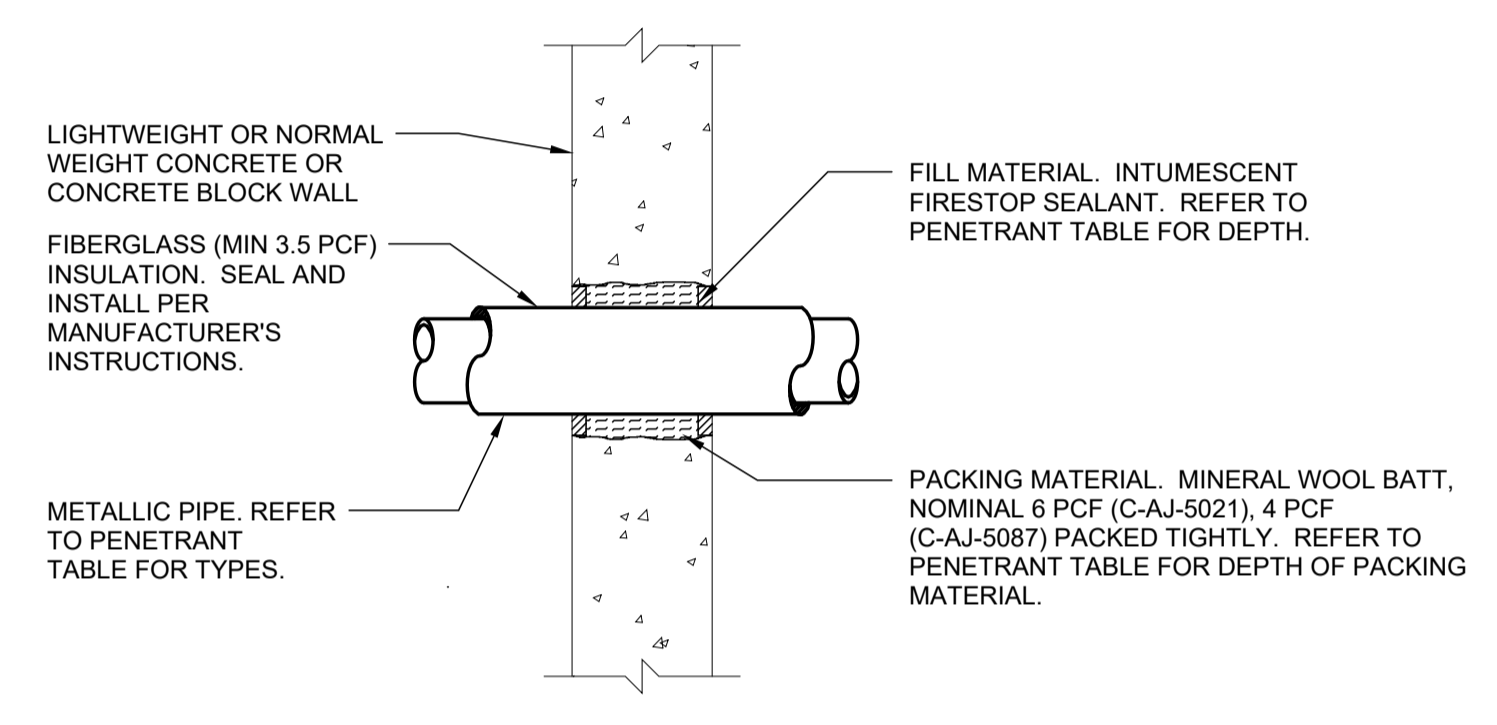


ROUND STEEL HVAC DUCT DETAIL
(GYPSUM WALL BOARD CONSTRUCTION) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. WL-7026, 2 HR. FLOOR FIRE RATING. UL SYSTEM NO. WL-7033, 2 HR. FLOOR FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - DETAIL USED FOR FUME EXHAUST HOOD SYSTEMS AND OTHER SYSTEMS WHERE FIRE DAMPERS CANNOT BE LOCATED IN DUCTWORK.
 - NOT TO BE USED FOR GREASE DUCT SYSTEMS.
 - FOR DUCT SYSTEMS THAT REQUIRE FIRE DAMPERS AT WALL PENETRATIONS, REFER TO FIRE DAMPER DETAIL VERTICAL MOUNTING.
 - STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 - ROUND STEEL HVAC DUCT SHALL BE CENTERED WITHIN THE FIRESTOP SYSTEM.

GENERAL NOTES

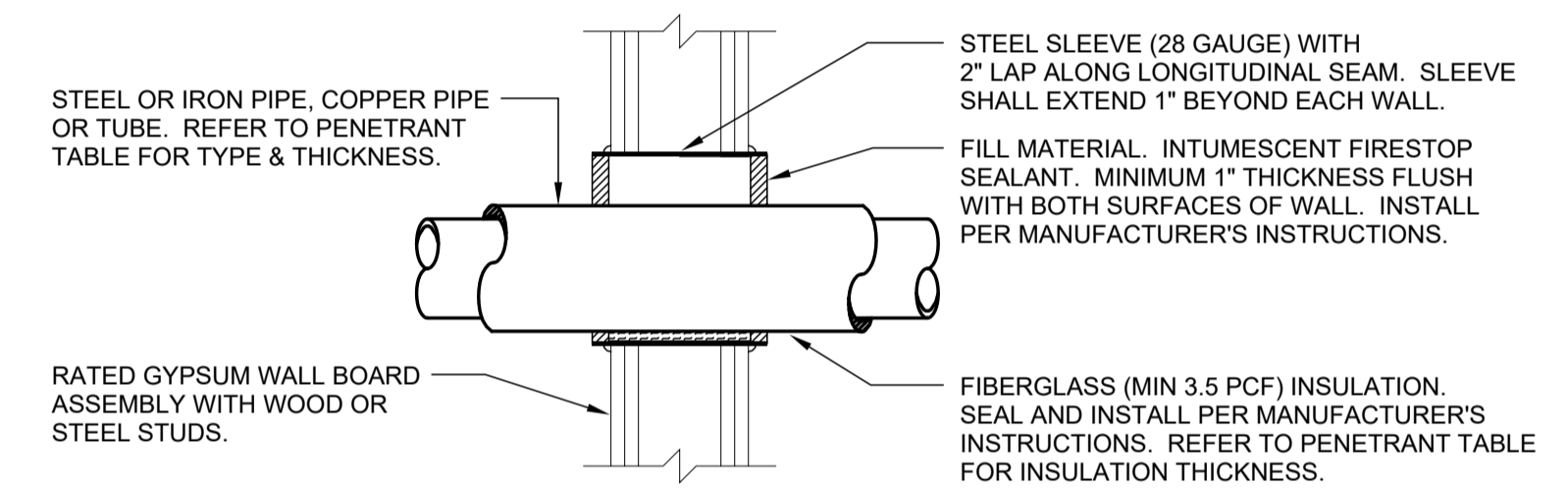
- REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS.
- FIRESTOPPING MATERIALS SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 (UL 1479), AND ASTM E119.
- SPECIFIED TECHNOLOGIES INC. (STI) IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION AND ACCEPTABLE MANUFACTURER'S.



METALLIC PIPING WITH INSULATION DETAIL
(CONCRETE WALL) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. C-AJ-5087, 2 HR. WALL FIRE RATING. UL SYSTEM NO. C-AJ-5021, 2 AND 3 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - METALLIC PIPE OR TUBING SHALL BE CENTERED WITHIN THE FIRESTOP SYSTEM (C-AJ-5021).
 - METALLIC PIPE OR TUBING CAN BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. (C-AJ-5087)

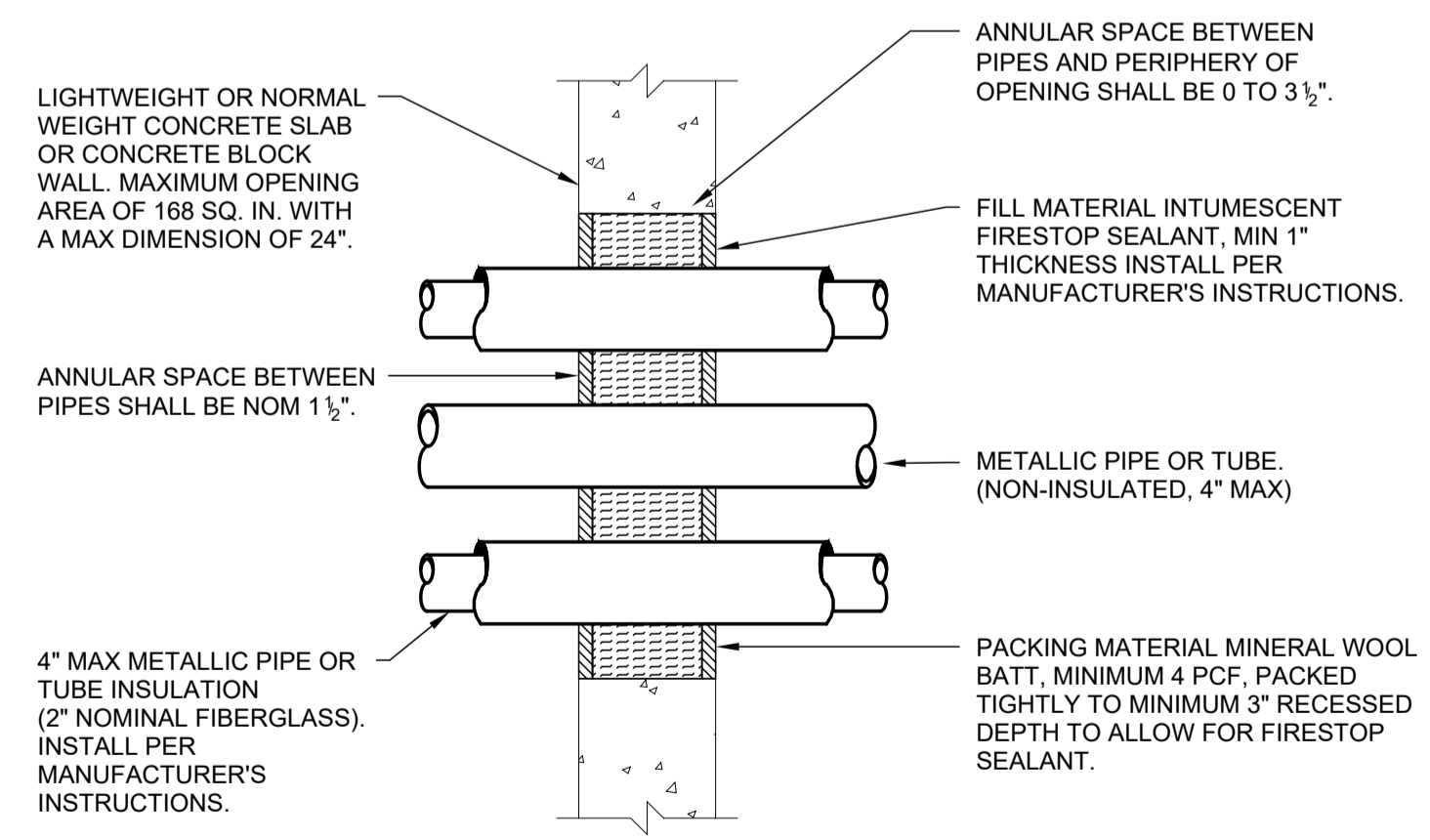
PENETRANT TYPE	MAX. PIPE SIZE	PIPE INSULATION THICKNESS	ANNULUS MINERAL WOOL DEPTH	SEALANT DEPTH (HRS)	RATING (HRS)	MAX WALL OPENING	U.L. SYSTEM NO.	
STEEL PIPE	4"	1"	3/8" NOM.	1 1/2"	1"	2	4"	C-AJ-5021
STEEL OR IRON PIPE	24"	2"	1/2" TO 1 1/2"	4"	1/2"	2	30"	C-AJ-5087
COPPER TUBING OR PIPE	4"	1"	3/8" NOM.	1 1/2"	1"	2	8"	C-AJ-5021
COPPER TUBING OR PIPE	6"	2"	1/2" TO 1 1/2"	4"	1/2"	2	30"	C-AJ-5087
COPPER TUBING OR PIPE	3"	1/2"	3/8" NOM.	1 1/2"	1"	3	8"	C-AJ-5021



METALLIC PIPING WITH INSULATION DETAIL
(GYPSUM WALL BOARD CONSTRUCTION) SCALE: NONE

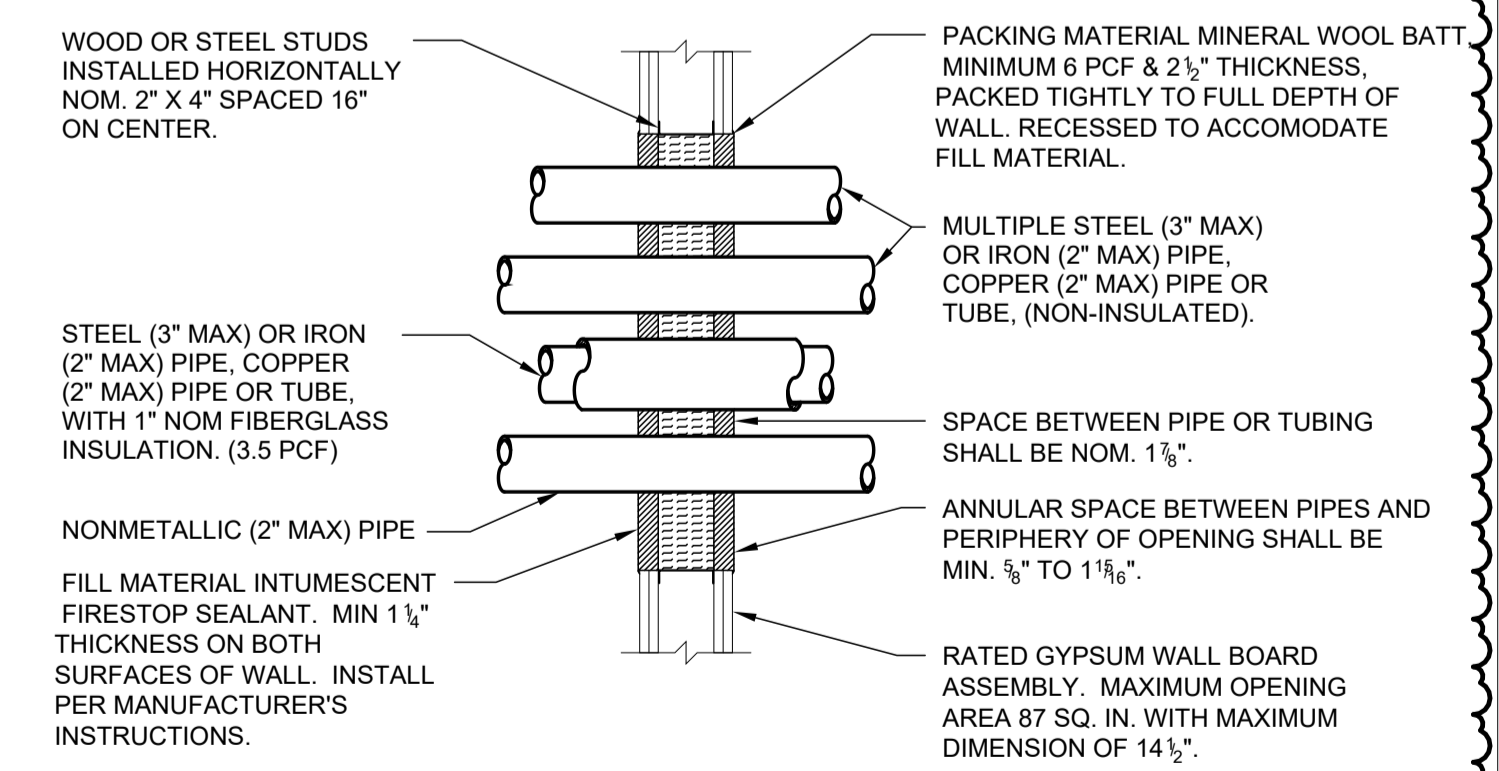
- NOTES:**
- UL SYSTEM NO. W-L-5091, 1 OR 2 HR. WALL FIRE RATING REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 - METALLIC PIPE OR TUBING CAN BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM.

PENETRANT TYPE	MAX. PIPE SIZE	PIPE INSULATION THICKNESS	ANNULUS
STEEL OR IRON PIPE	12"	2" MAX	0" TO 1 1/2"
COPPER PIPE OR TUBE	6"	2" MAX	0" TO 1 1/2"



MULTIPLE METALLIC PIPE PENETRATIONS DETAIL
(CONCRETE WALL) SCALE: NONE

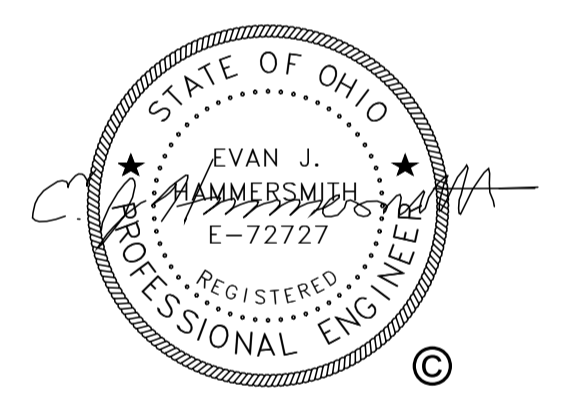
- NOTES:**
- UL SYSTEM NO. C-AJ-8053, 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.



MULTIPLE METALLIC AND NONMETALLIC PIPE PENETRATIONS DETAIL
(GYPSUM WALL BOARD CONSTRUCTION) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. W-L-8003, 1 OR 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

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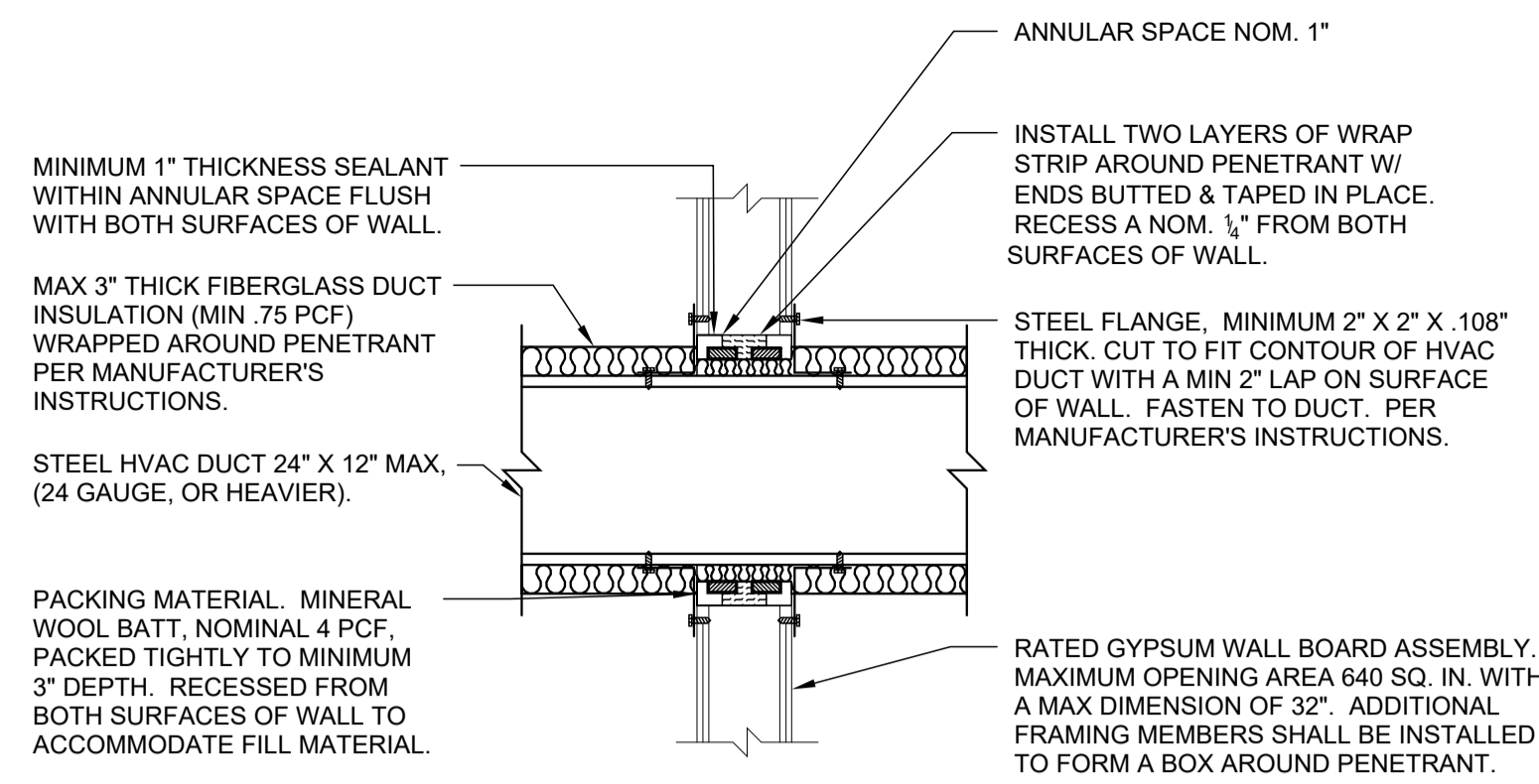


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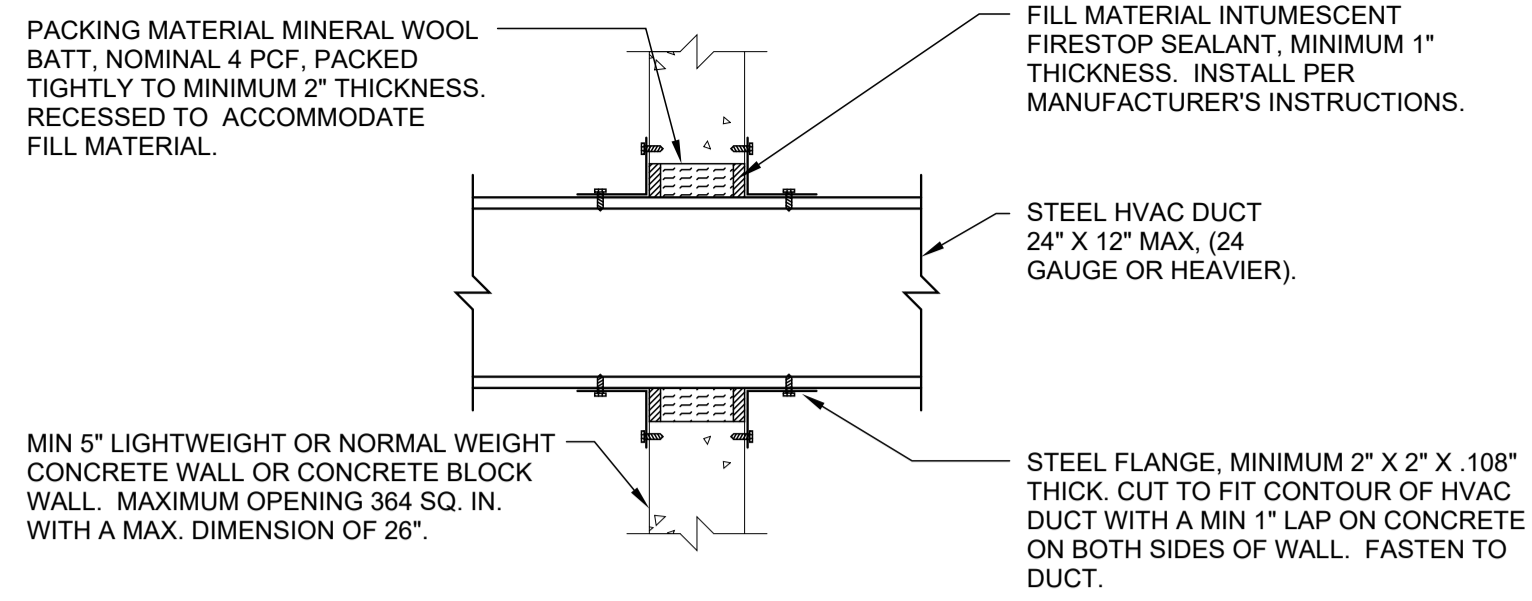
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RECTANGULAR STEEL HVAC DUCT DETAIL

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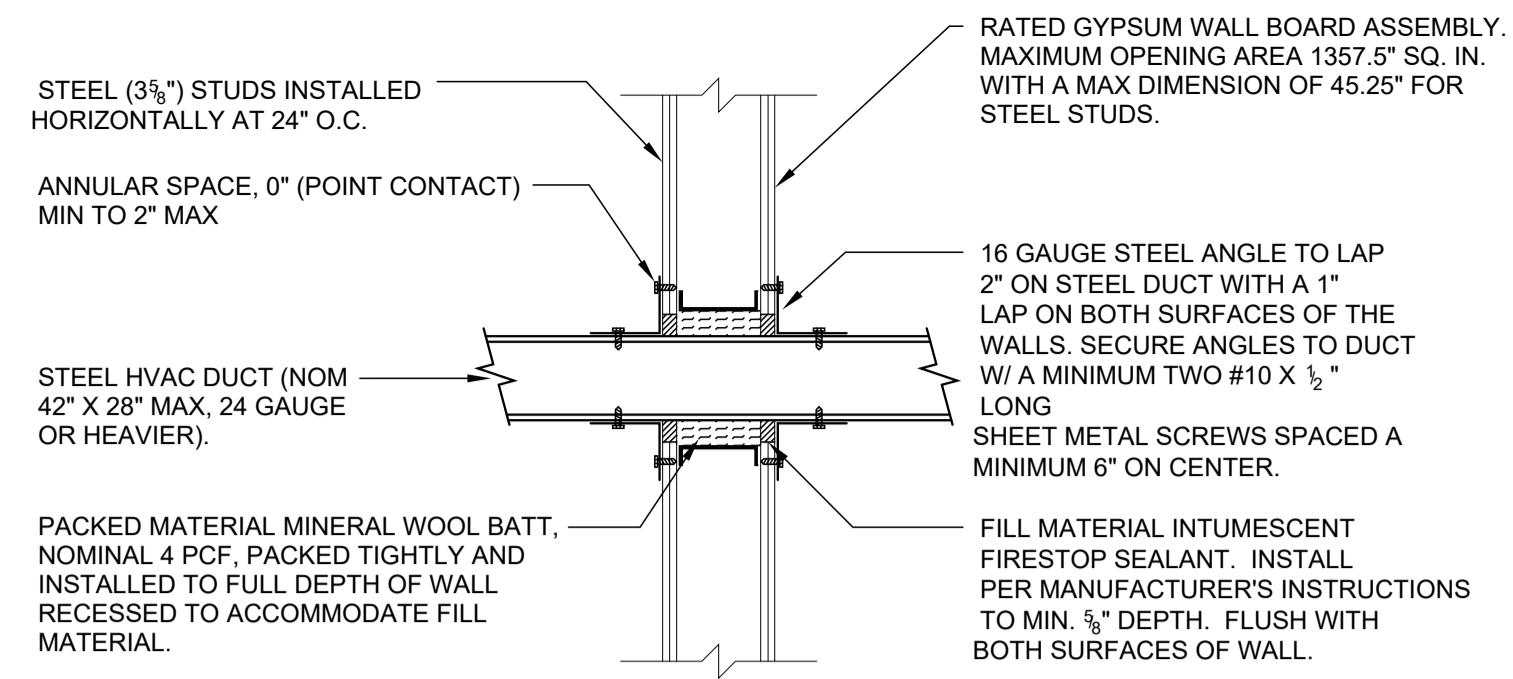
- NOTES:
1. UL SYSTEM NO. W-J-7011 1 OR 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 2. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 3. DETAIL USED FOR FUME EXHAUST HOOD SYSTEMS AND OTHER SYSTEMS WHERE FIRE DAMPERS CANNOT BE LOCATED IN DUCTWORK.
 4. NOT TO BE USED FOR GREASE DUCT SYSTEMS.
 5. FOR DUCT SYSTEMS THAT REQUIRE FIRE DAMPERS AT WALL PENETRATIONS, REFER TO FIRE DAMPER DETAIL.



RECTANGULAR STEEL HVAC DUCT DETAIL

(CONCRETE WALL) SCALE: NONE

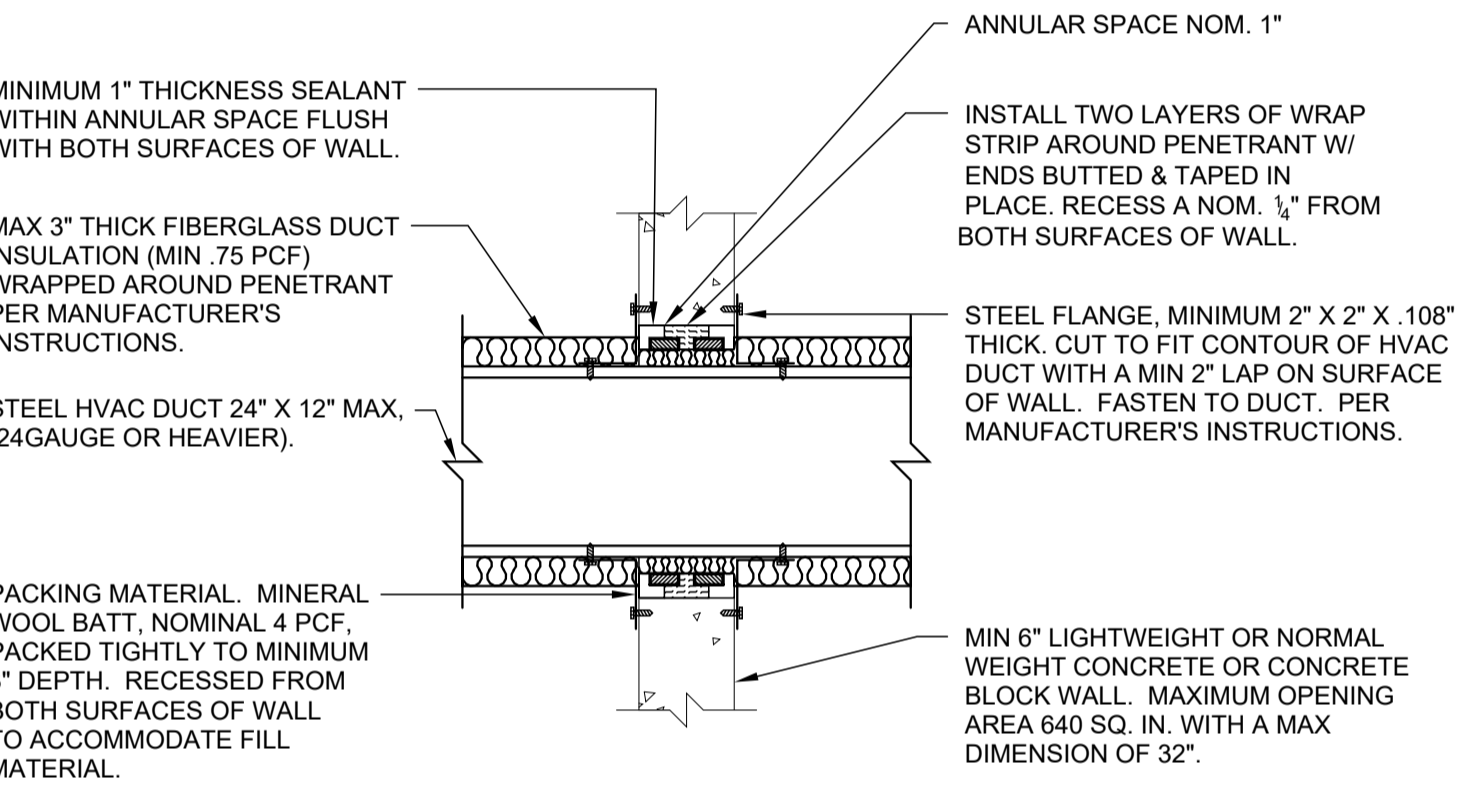
- NOTES:
1. UL SYSTEM NO. C-AJ-7027, 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 2. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 3. DETAIL USED FOR FUME EXHAUST HOOD SYSTEMS AND OTHER SYSTEMS WHERE FIRE DAMPERS CANNOT BE LOCATED IN DUCTWORK.
 4. NOT TO BE USED FOR GREASE DUCT SYSTEMS.
 5. FOR DUCT SYSTEMS THAT REQUIRE FIRE DAMPERS AT WALL PENETRATIONS, REFER TO FIRE DAMPER DETAIL.



RECTANGULAR STEEL HVAC DUCT DETAIL

(GYPSUM WALL BOARD CONSTRUCTION) SCALE: NONE

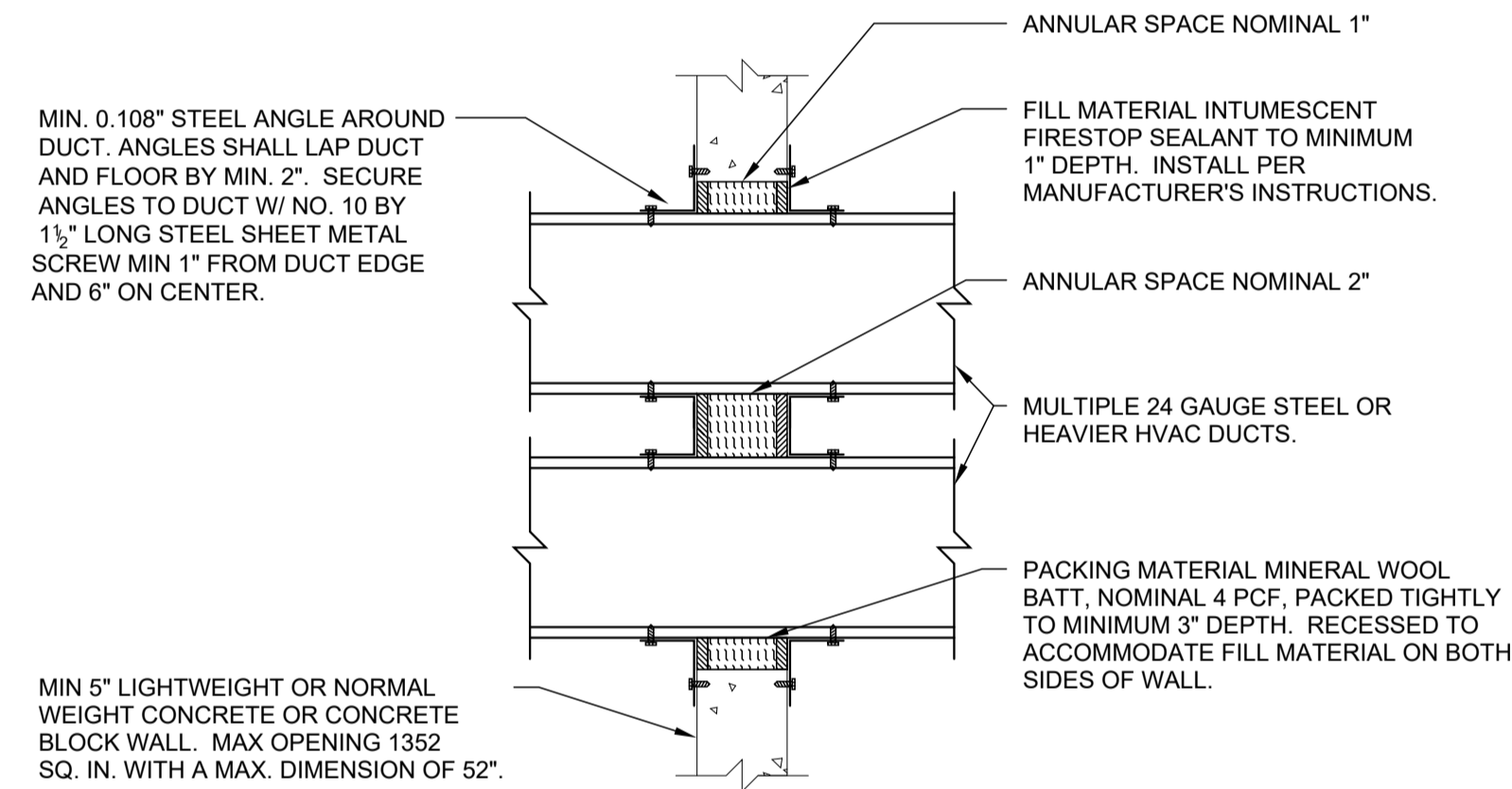
- NOTES:
1. UL SYSTEM NO. W-L-7025, 1 OR 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 2. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 3. DETAIL USED FOR FUME EXHAUST HOOD SYSTEMS AND OTHER SYSTEMS WHERE FIRE DAMPERS CANNOT BE LOCATED IN DUCTWORK.
 4. NOT TO BE USED FOR GREASE DUCT SYSTEMS.
 5. FOR DUCT SYSTEMS THAT REQUIRE FIRE DAMPERS AT WALL PENETRATIONS, REFER TO FIRE DAMPER DETAIL.



RECTANGULAR STEEL HVAC DUCT DETAIL

(CONCRETE WALL) SCALE: NONE

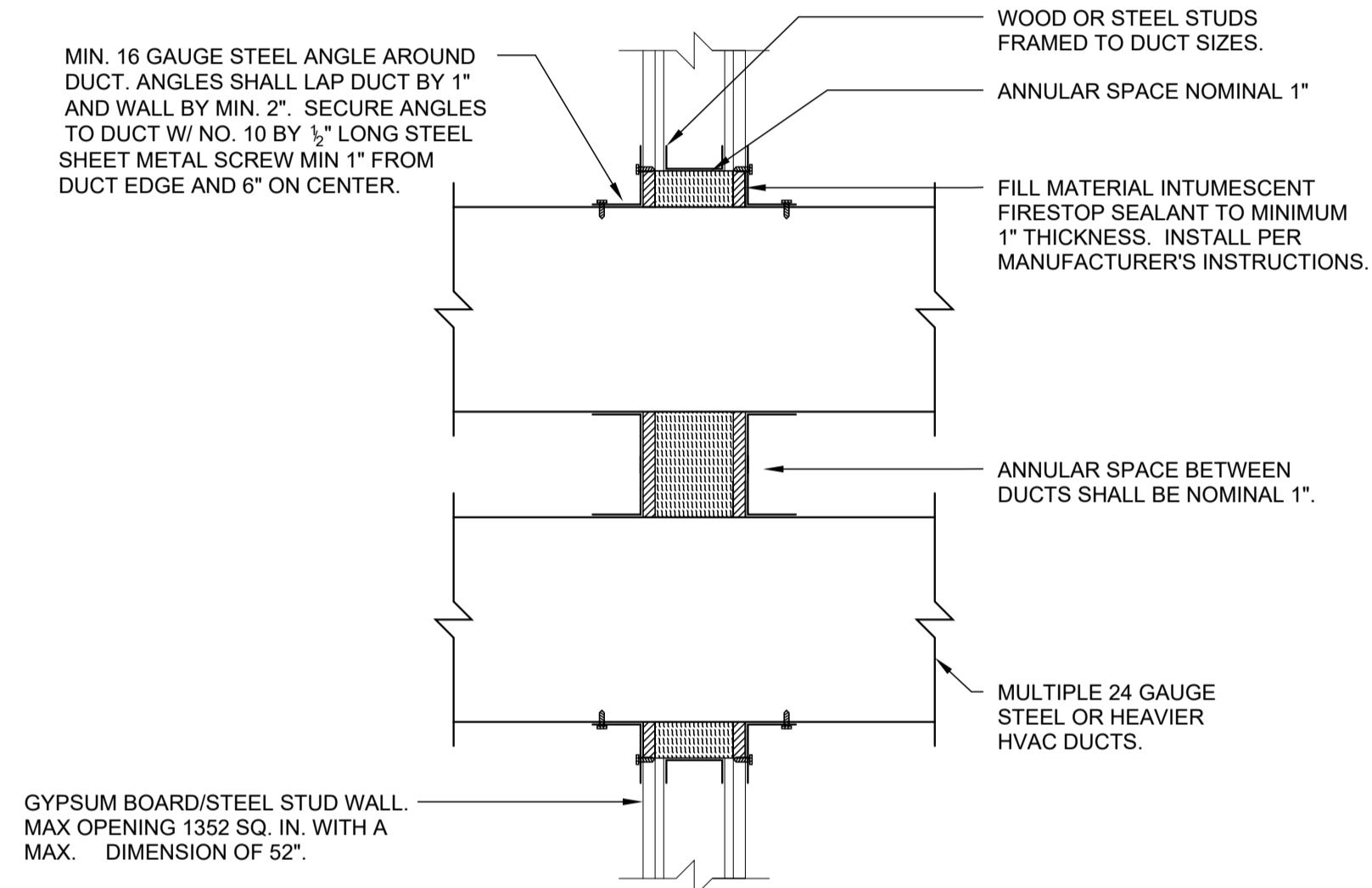
- NOTES:
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 4. NOT TO BE USED FOR GREASE DUCT SYSTEMS.
 5. FOR DUCT SYSTEMS THAT REQUIRE FIRE DAMPERS AT WALL PENETRATIONS, REFER TO FIRE DAMPER DETAIL.



MULTIPLE STEEL HVAC DUCT PENETRATIONS DETAIL

(CONCRETE WALL) SCALE: NONE

- NOTES:
1. UL SYSTEM NO. C-AJ-7027, 2 HR. FLOOR FIRE RATING.
 2. UL SYSTEM NO. C-AJ-8053, 2 HR. FLOOR FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 3. DETAIL USED FOR FUME EXHAUST HOOD SYSTEMS AND OTHER SYSTEMS WHERE FIRE DAMPERS CANNOT BE LOCATED IN DUCTWORK.
 4. NOT TO BE USED FOR GREASE DUCT SYSTEMS.
 5. FOR DUCT SYSTEMS THAT REQUIRE FIRE DAMPERS AT WALL PENETRATIONS, REFER TO FIRE DAMPER DETAIL.
 6. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL.



MULTIPLE STEEL HVAC DUCT PENETRATIONS DETAIL

(GYPSUM BOARD WALL) SCALE: NONE

- NOTES:
1. UL SYSTEM NO. C-AJ-7025, 2 HR. FLOOR FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 2. DETAIL USED FOR FUME EXHAUST HOOD SYSTEMS AND OTHER SYSTEMS WHERE FIRE DAMPERS CANNOT BE LOCATED IN DUCTWORK.
 3. NOT TO BE USED FOR GREASE DUCT SYSTEMS.
 4. FOR DUCT SYSTEMS THAT REQUIRE FIRE DAMPERS AT WALL PENETRATIONS, REFER TO FIRE DAMPER DETAIL.

GENERAL NOTES

1. REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS.
2. FIRESTOPPING MATERIALS SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 (UL 1479), AND ASTM E119.
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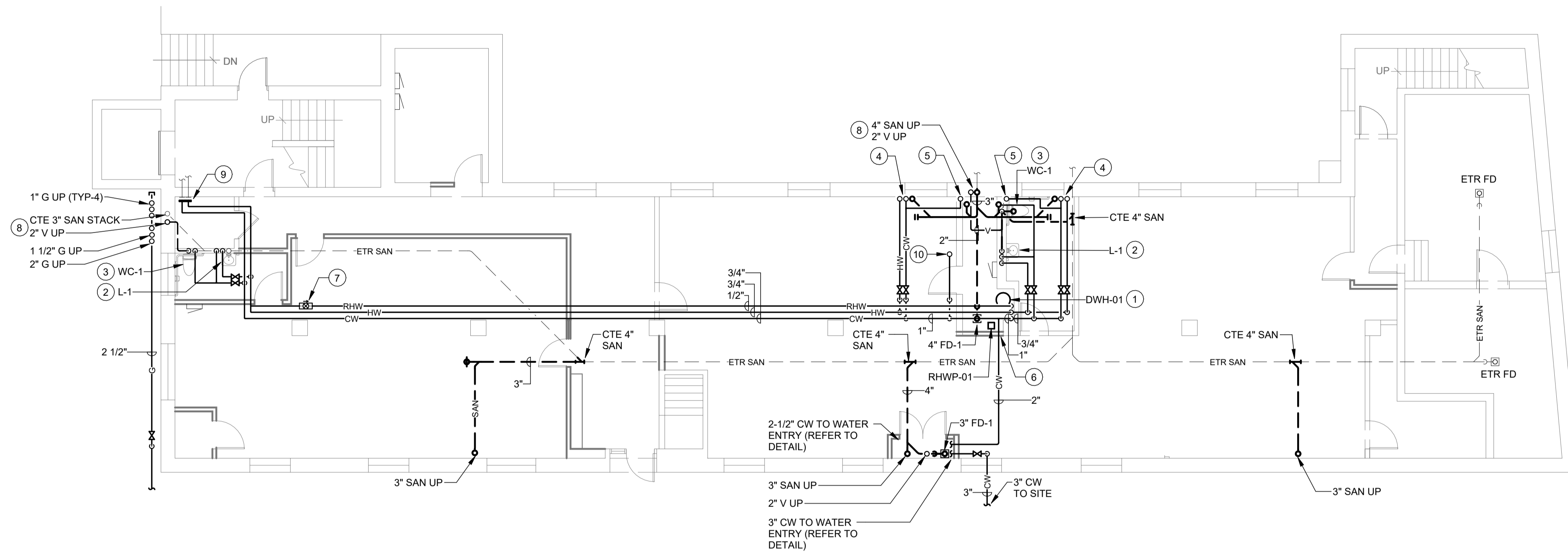
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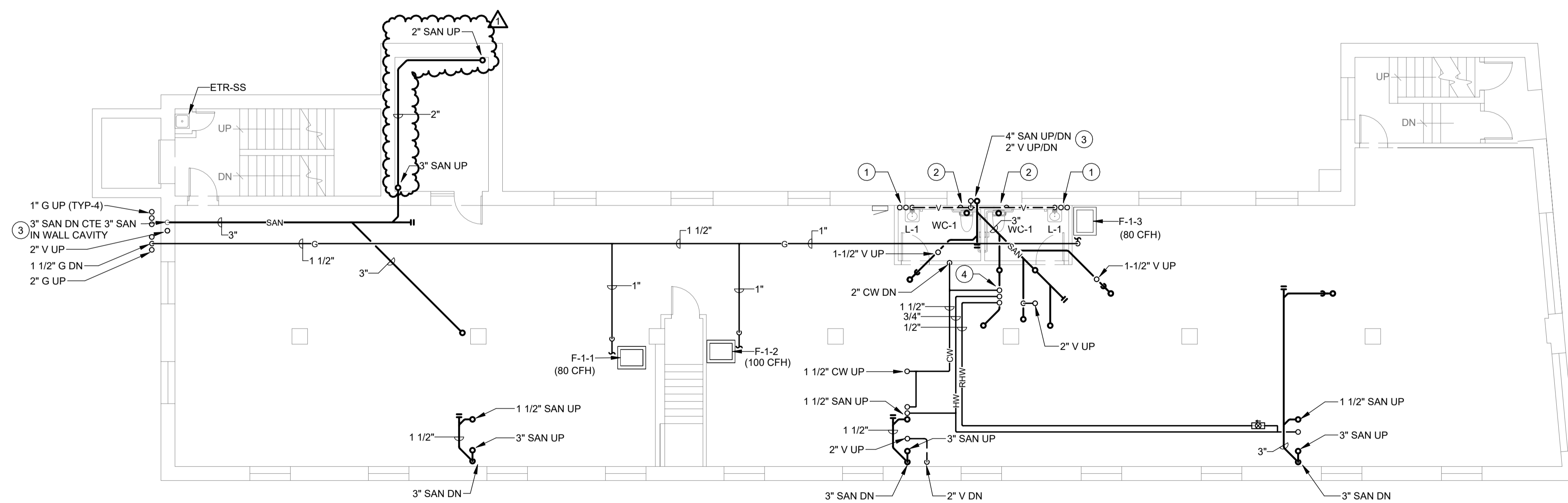
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DRAWING LIST - PLUMBING	
NUMBER	NAME
P001	PLUMBING SYMBOL LEGEND AND GENERAL NOTES
P002	PLUMBING SCHEDULES
P101	BASEMENT AND FIRST FLOOR PLUMBING PLAN
P102	SECOND AND THIRD FLOOR PLUMBING PLAN
P103	ROOF PLUMBING PLAN
P601	PLUMBING DETAILS AND DIAGRAMS
P602	PLUMBING DETAILS AND DIAGRAMS
P701	PLUMBING STACK DIAGRAMS
P702	PLUMBING STACK DIAGRAMS



0 - BASEMENT PLUMBING PLAN
1/8" = 1'-0"

- # BASEMENT PLAN NOTES**
- 3/4" CW, 3/4" HW, & 1/2" RHW DN TO SHELF-MOUNTED DWHP-01, RHWP-01, & TMV, REFER TO DETAIL.
 - 1/2" CW, 1/2" HW, & 1-1/2" V DN TO SERVE FIXTURE.
 - 1/2" CW & 2" V DN TO SERVE FIXTURE.
 - 1/2" CW, 1/2" HW, & 1-1/2" SAN UP TO SERVE FIXTURE ABOVE
 - 1/2" CW & 3" SAN UP TO SERVE FIXTURE ABOVE
 - ROUTE X" CW THROUGH EXISTING BEAM PENETRATION.
 - RECIRCULATING HOT WATER BALANCING VALVE, BALANCE TO 2 GPM
 - ROUTE PIPING UP WITHIN EXISTING EXTERIOR WALL SAN/VENT CAVITY.
 - CTE 3/4" CW & HW SERVING SERVICE SINKS
 - 2" CW UP



1 - FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"

- # FIRST FLOOR PLAN NOTES**
- 1/2" CW, 1/2" HW, & 1-1/2" SAN UP FROM BEOW TO SERVE FIXTURE. 1-1/2" V UP.
 - 1/2" CW & 3" SAN UP FROM BEOW TO SERVE FIXTURE. 2" V UP.
 - ROUTE PIPING UP WITHIN EXISTING EXTERIOR WALL SAN/VENT CAVITY.
 - 1" CW, 3/4" HW, & 1/2" RHW UP TO SERVE FIXTURE.

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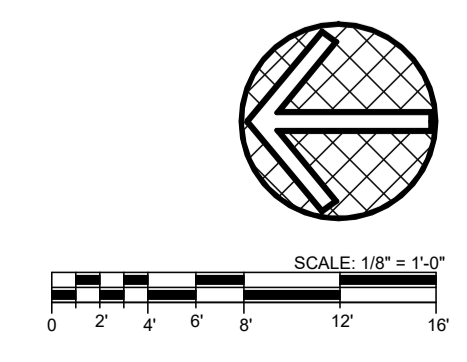


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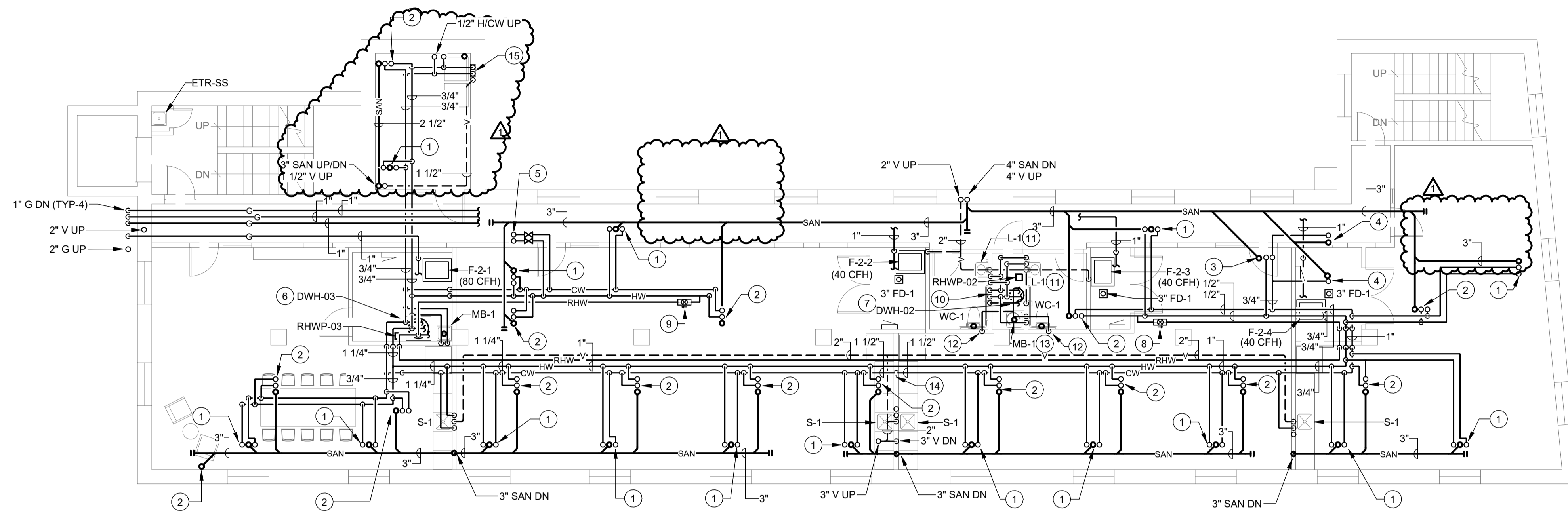
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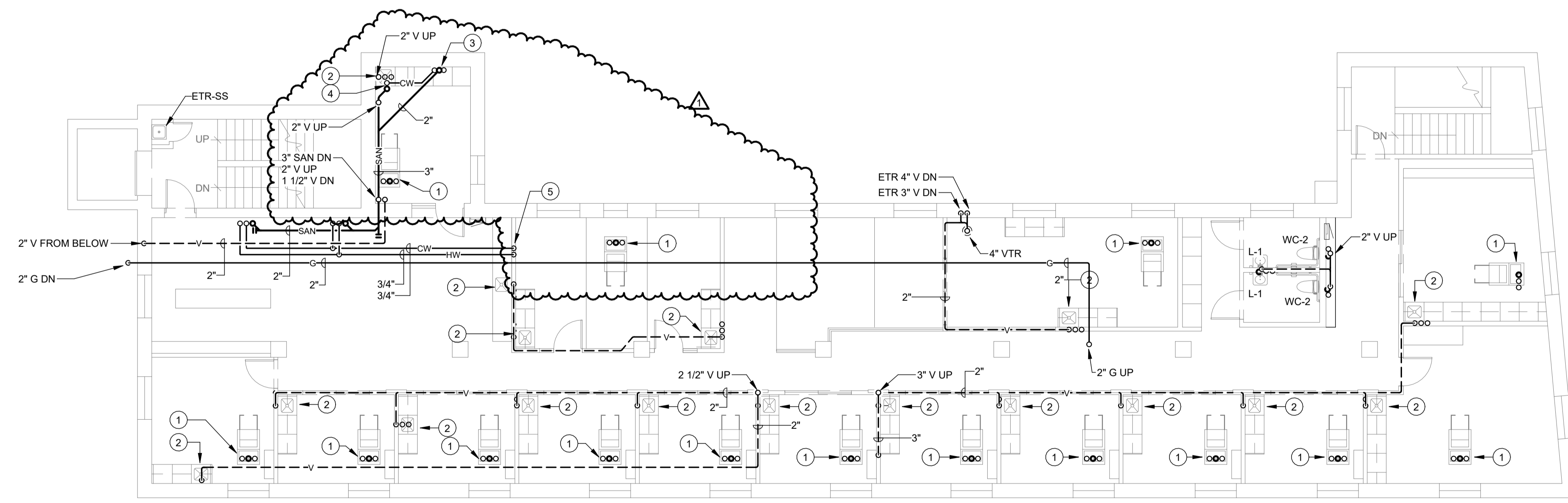
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P701	PLUMBING STACK DIAGRAMS
P702	PLUMBING STACK DIAGRAMS



2-SECOND FLOOR PLUMBING PLAN
1/8" = 1'-0"

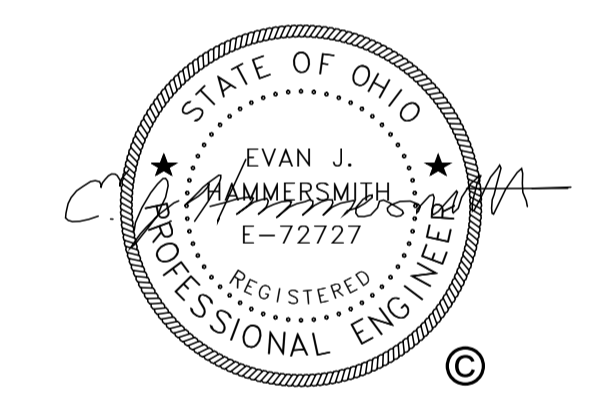
- # SECOND FLOOR PLAN NOTES
- 1-1/2" SAN, 1/2" HW, & 1/2" CW UP TO SERVE FIXTURE ABOVE.
 - 2-1/2" SAN (CDV), 1/2" HW, & 1/2" CW UP TO SERVE FIXTURE ABOVE.
 - 2" SAN, 1/2" HW, & 1/2" CW UP TO SERVE FIXTURES ABOVE.
 - 3" SAN & 1/2" CW UP TO SERVE FIXTURE ABOVE.
 - 3/4" CW & 3/4" HW UP TO ROOF FIXTURES VIA 3RD FLOOR CEILING DISTRIBUTION. PROVIDE DRAIN VALVES WITH HOSE CONNECTIONS AT BASE OF VERTICAL RISER FOR WINTERIZATION.
 - 1-1/4" CW, 1-1/4" HW, & 3/4" RHW DN TO DWH-03, RHW-03, & TMV. REFER TO DETAIL.
 - 3/4" CW, 3/4" HW, & 1/2" RHW DN TO DWH-02, RHW-02, & TMV. REFER TO DETAIL.
 - RECIRCULATING HOT WATER BALANCING VALVE, BALANCE TO 3.0 GPM.
 - RECIRCULATING HOT WATER BALANCING VALVE, BALANCE TO 1.0 GPM.
 - 3/4" CW, 3/4" HW, & 1/2" RHW DN TO DWH-02, RHW-02, & TMV. REFER TO DETAIL.
 - 1/2" CW & 1/2" HW DN TO SERVE FIXTURE.
 - 3/4" CW DN TO SERVE FIXTURE.
 - 3/4" CW & 3/4" HW DN TO SERVE FIXTURE.
 - 1 1/2" CW DN TO FLOOR BELOW.
 - 1 1/2" V, 1/2" CW, & 1/2" HW DN TO WB-3.



3 - THIRD FLOOR PLUMBING PLAN
1/8" = 1'-0"

- # THIRD FLOOR PLAN NOTES
- SALON SINK BY OTHERS, PROVIDE HAIR TRAP ACCESSORY. 1-1/2" SAN, 1/2" HW, & 1/2" CW UP FROM BELOW TO SERVE FIXTURE. PROVIDE ASSE 1070 MIXING VALVE TO SINK FAUCET.
 - HANDWASHING SINK BY OTHERS. 2" SAN (CDV), 1/2" HW, & 1/2" CW UP FROM BELOW TO SERVE FIXTURE.
 - 2" SAN, 1/2" HW, & 1/2" CW UP TO SERVE FIXTURES ABOVE.
 - 3" SAN & 1/2" CW UP TO SERVE FIXTURE ABOVE.
 - 3/4" CW & 3/4" HW DN TO 2ND FLOOR CEILING

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1	ADJUDICATION ORDER	04-01-2024



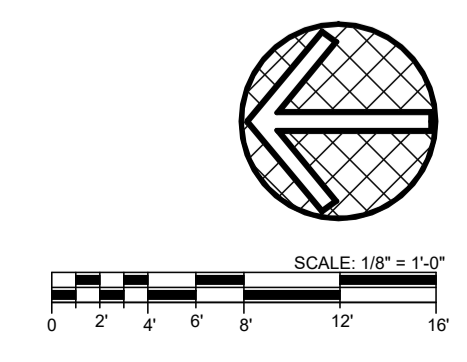
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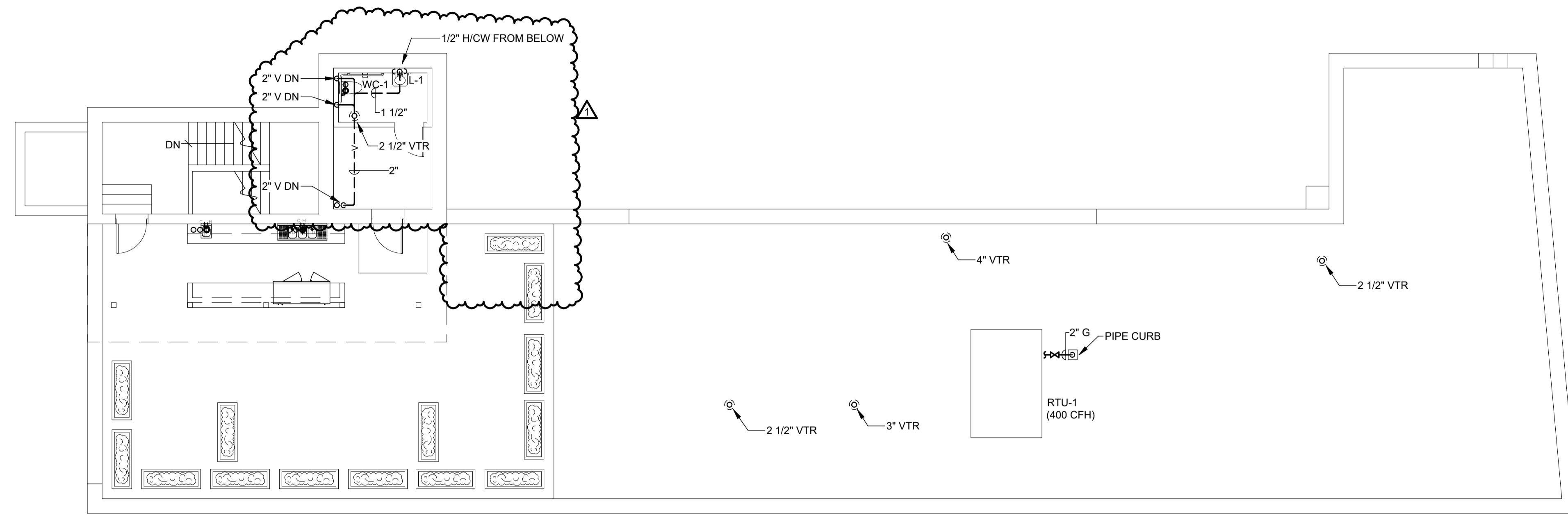
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REV. NO.	DESCRIPTION	DATE
1	ADJUDICATION ORDER	04-01-2024

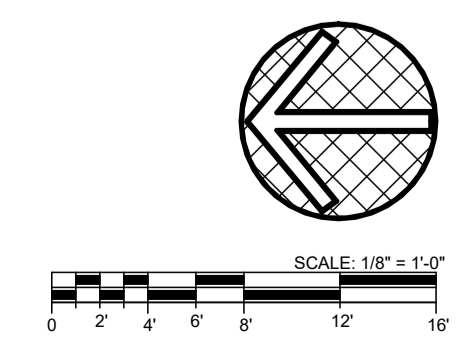


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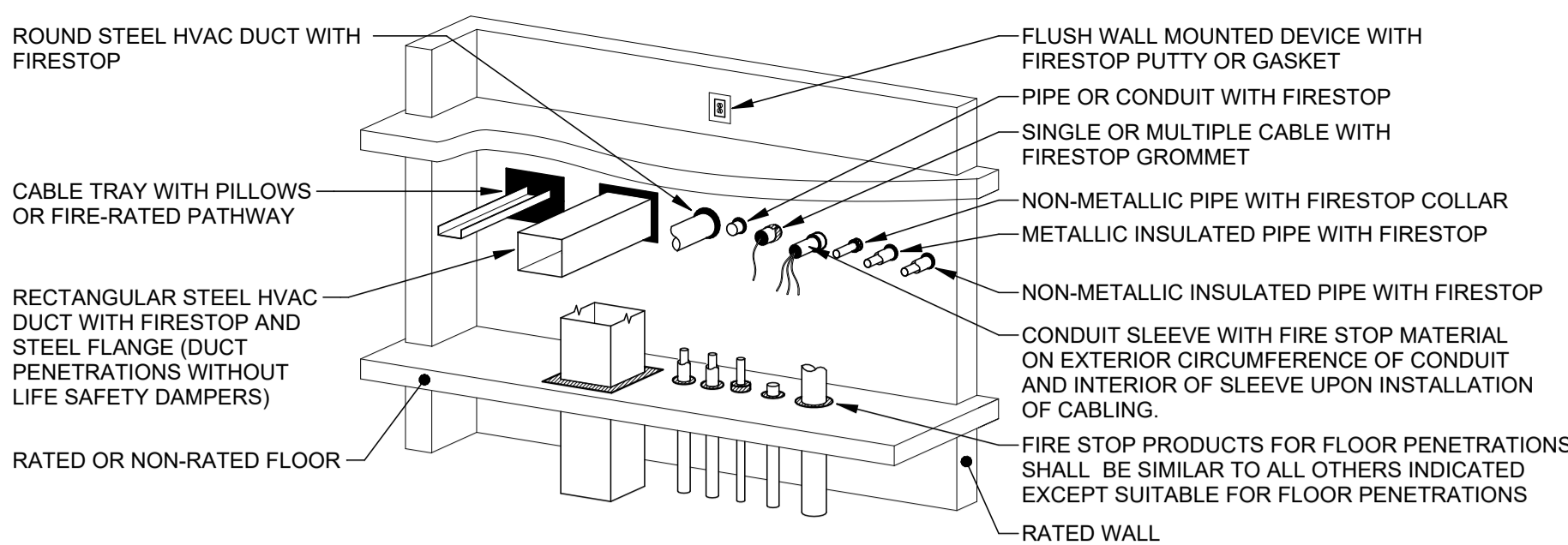
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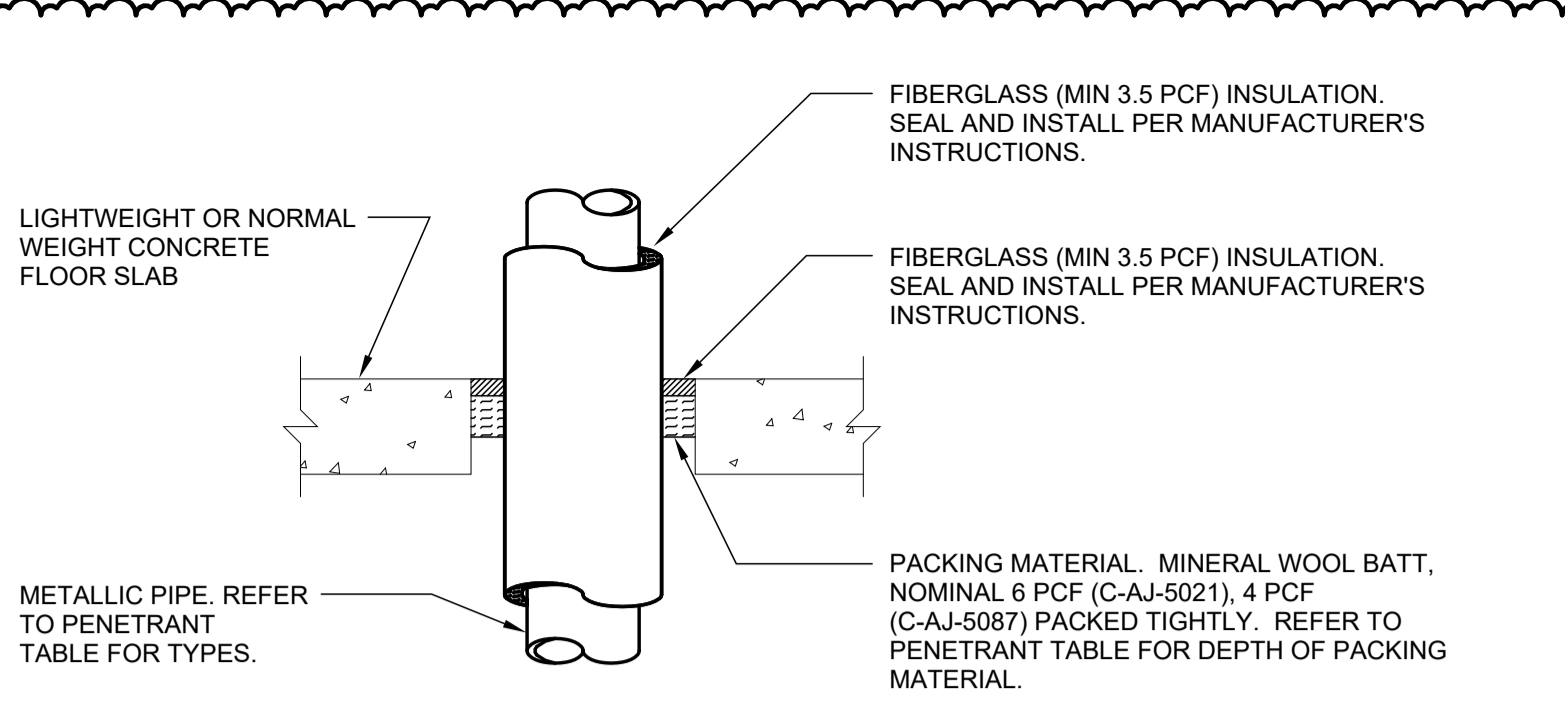


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P702	PLUMBING STACK DIAGRAMS



- NOTES:**
- REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS.
 - IN AN OCCUPIED BUILDING, PERMANENT FIRESTOPPING SHALL BE INSTALLED WITHIN 24 HOURS OF PENETRATING A FIRE-RATED ASSEMBLY. IF PERMANENT FIRESTOPPING CANNOT BE INSTALLED WITHIN THIS TIME PERIOD, TEMPORARY FIRESTOP PILLOWS/BLOCKS ARE PERMITTED, WHERE INSTALLATION ALLOWS, UNTIL PERMANENT FIRESTOP MATERIALS CAN BE PROPERLY INSTALLED.
 - THIS DETAIL IS A GENERAL DEPICTION OF FIRESTOPPING CONDITIONS. SOME CONDITIONS MAY NOT APPLY TO THE PROJECT SCOPE. REFER TO APPLICABLE SPECIFICATIONS AND LIFE SAFETY DRAWINGS AND REFERENCES FOR ADDITIONAL INFORMATION.

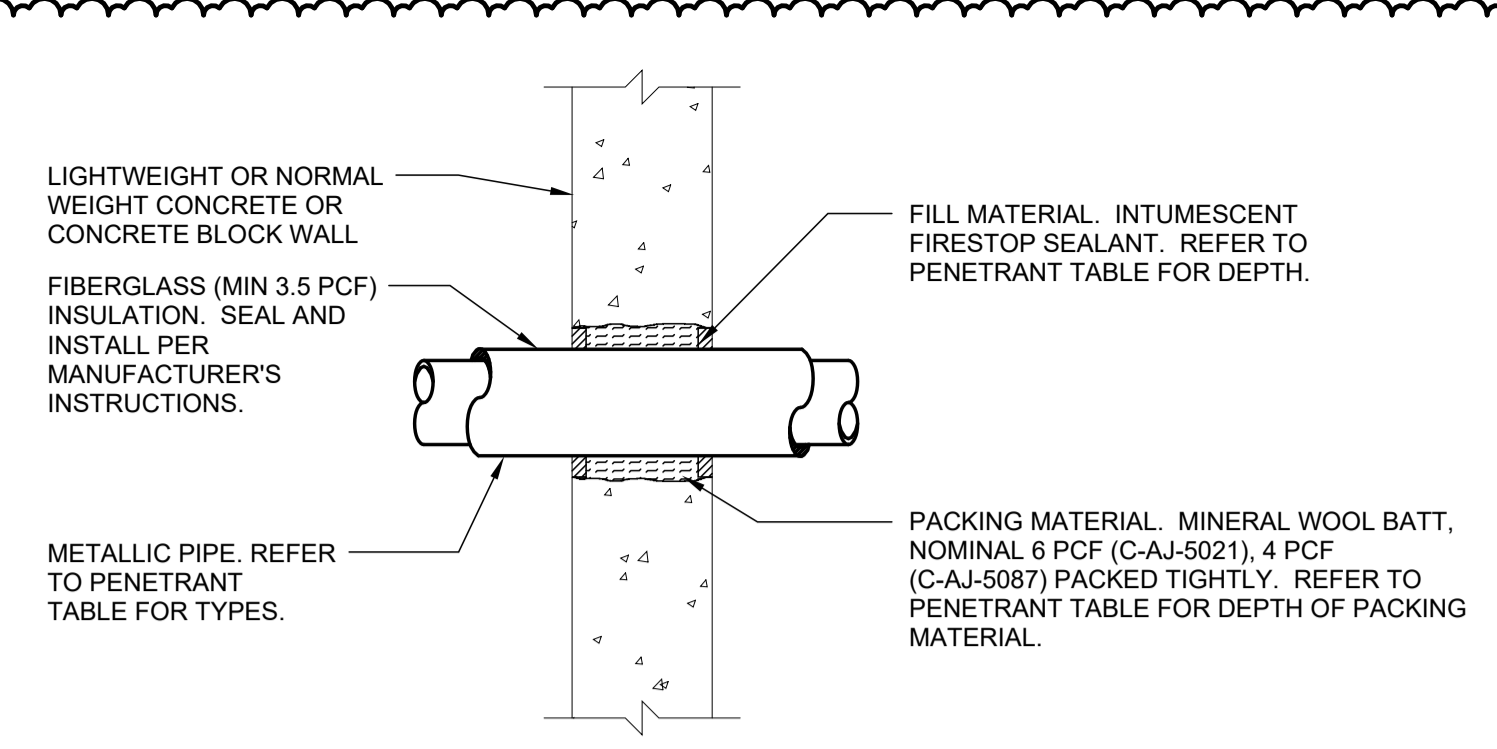
FIRESTOPPING DETAIL
SCALE: NONE



METALLIC PIPING WITH INSULATION DETAIL
(CONCRETE FLOOR) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. C-AJ-5087, 2 HR. FLOOR FIRE RATING. UL SYSTEM NO. C-AJ-5021, 2 AND 3 HR. FLOOR FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - METALLIC PIPE OR TUBING SHALL BE CENTERED WITHIN THE FIRESTOP SYSTEM (C-AJ-5021).
 - METALLIC PIPE OR TUBING CAN BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. (C-AJ-5087)

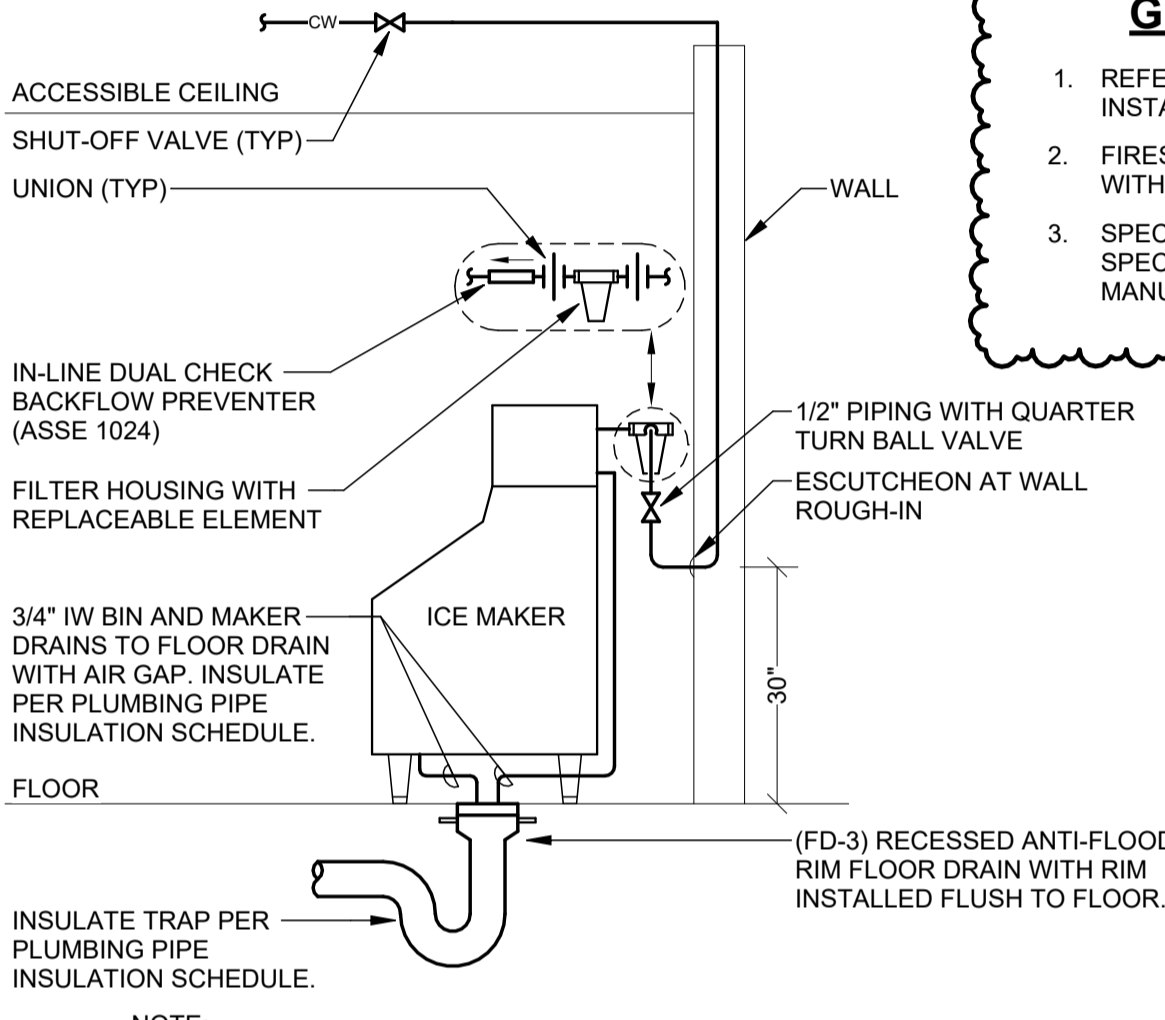
PENETRANT TYPE	MAX. PIPE SIZE	PIPE INSULATION THICKNESS	ANNULUS	MINERAL SEALANT DEPTH	RATING (HRS)	MAX WALL OPENING	U.L. SYSTEM NO.
STEEL PIPE	4"	1"	3/16" NOM.	1 1/2"	1"	4"	C-AJ-5021
STEEL OR IRON PIPE	24"	2"	1/2" TO 1 1/2"	4"	1/2"	30"	C-AJ-5087
COPPER TUBING OR PIPE	4"	1"	3/16" NOM.	1 1/2"	1"	8"	C-AJ-5021
COPPER TUBING OR PIPE	6"	2"	1/2" TO 1 1/2"	4"	1/2"	30"	C-AJ-5087
COPPER TUBING OR PIPE	3"	1/2"	3/16" NOM.	1 1/2"	1"	8"	C-AJ-5021



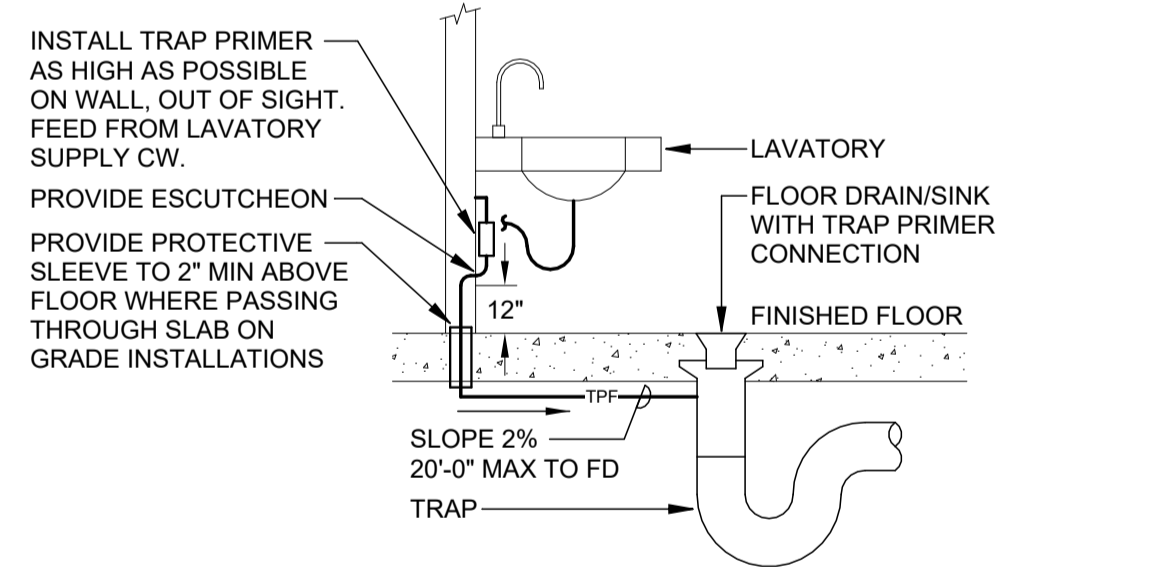
METALLIC PIPING WITH INSULATION DETAIL
(CONCRETE WALL) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. C-AJ-5087, 2 HR. WALL FIRE RATING. UL SYSTEM NO. C-AJ-5021, 2 AND 3 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - METALLIC PIPE OR TUBING SHALL BE CENTERED WITHIN THE FIRESTOP SYSTEM (C-AJ-5021).
 - METALLIC PIPE OR TUBING CAN BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. (C-AJ-5087)

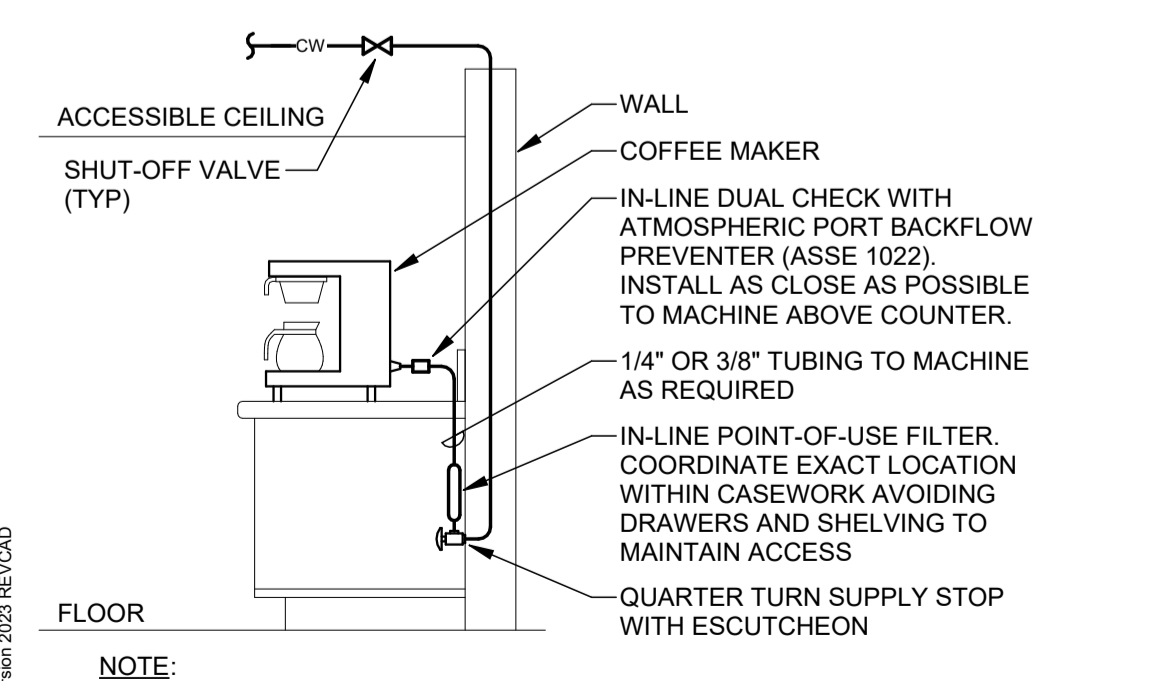
PENETRANT TYPE	MAX. PIPE SIZE	PIPE INSULATION THICKNESS	ANNULUS	MINERAL SEALANT DEPTH	RATING (HRS)	MAX WALL OPENING	U.L. SYSTEM NO.
STEEL PIPE	4"	1"	3/16" NOM.	1 1/2"	1"	4"	C-AJ-5021
STEEL OR IRON PIPE	24"	2"	1/2" TO 1 1/2"	4"	1/2"	30"	C-AJ-5087
COPPER TUBING OR PIPE	4"	1"	3/16" NOM.	1 1/2"	1"	8"	C-AJ-5021
COPPER TUBING OR PIPE	6"	2"	1/2" TO 1 1/2"	4"	1/2"	30"	C-AJ-5087
COPPER TUBING OR PIPE	3"	1/2"	3/16" NOM.	1 1/2"	1"	8"	C-AJ-5021



FLOOR MOUNTED ICE MAKER PIPING DIAGRAM
SCALE: NONE

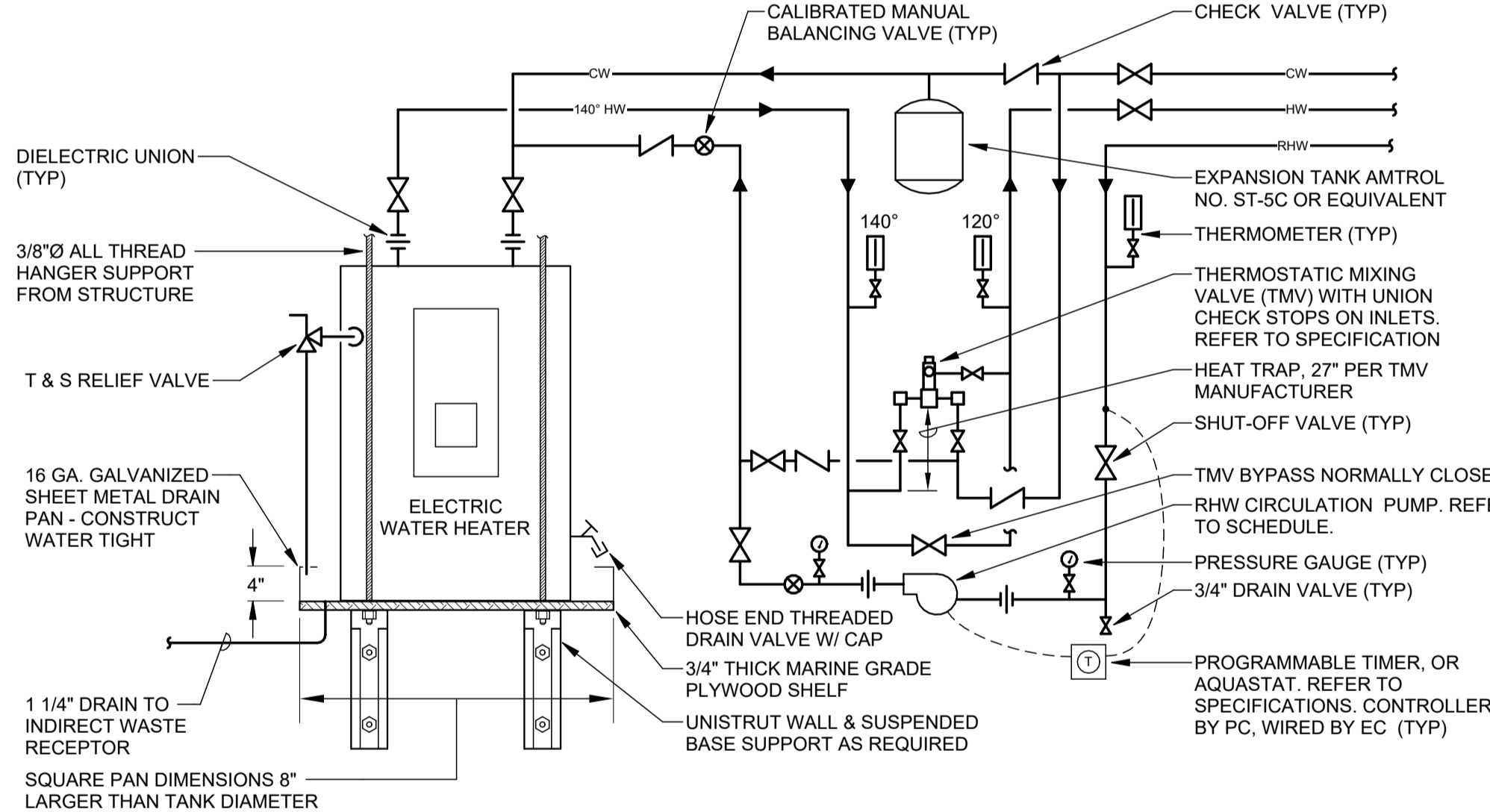


TRAP PRIMER DETAIL - UNDER LAV TYPE
SCALE: NONE

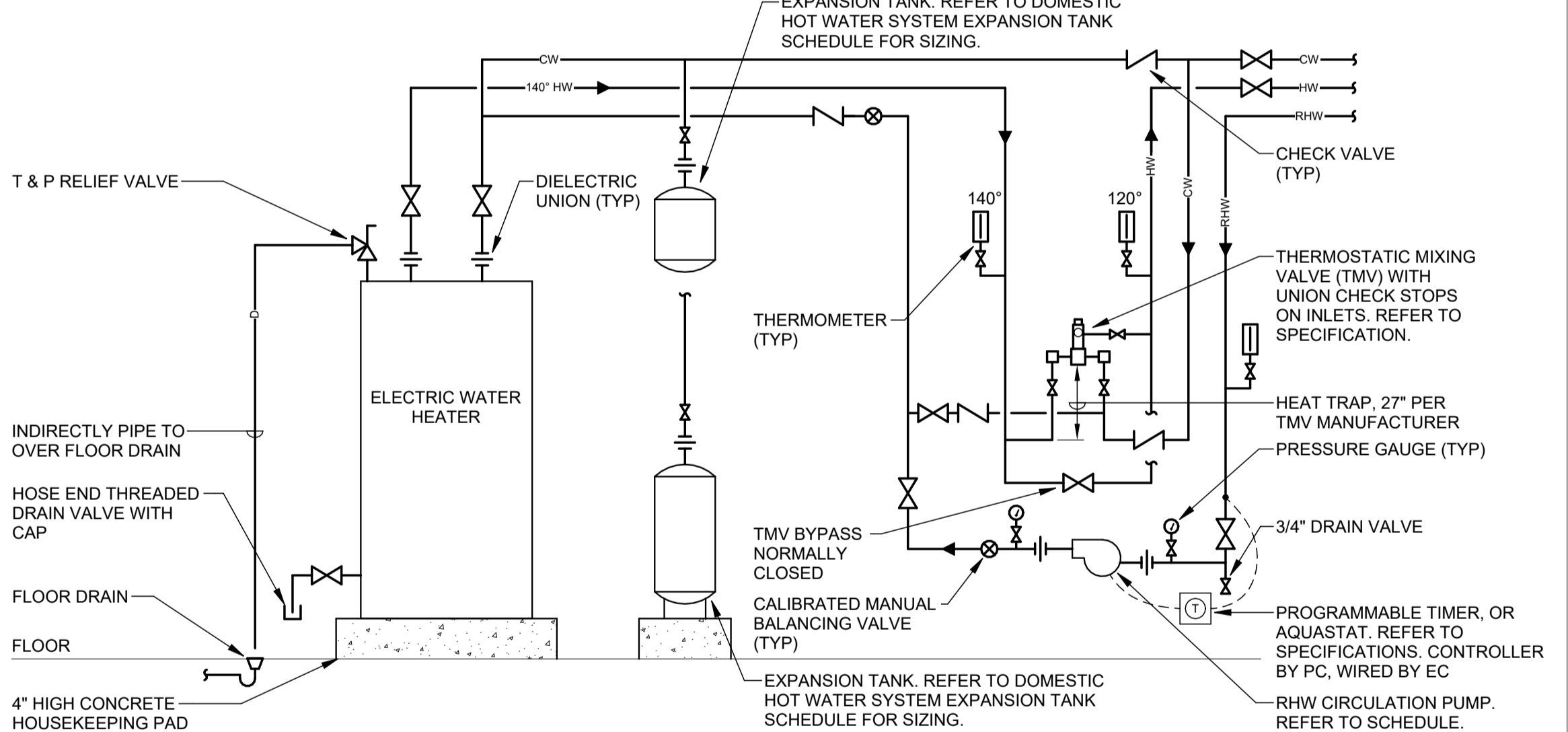


COUNTERTOP COFFEE MAKER PIPING DIAGRAM
SCALE: NONE

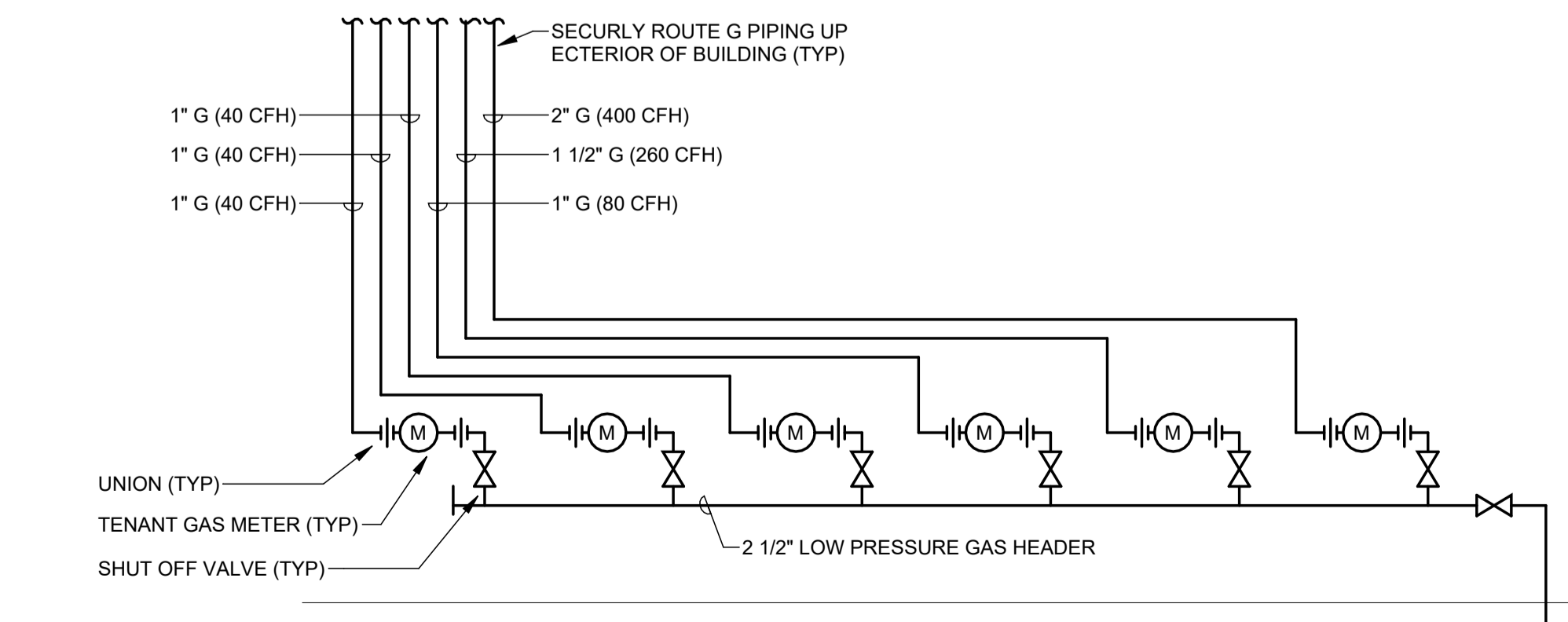
- GENERAL NOTES**
- REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS.
 - FIRESTOPPING MATERIALS SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 (UL 1479), AND ASTM E119.
 - SPECIFIED TECHNOLOGIES INC. (STI) IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION AND ACCEPTABLE MANUFACTURERS.



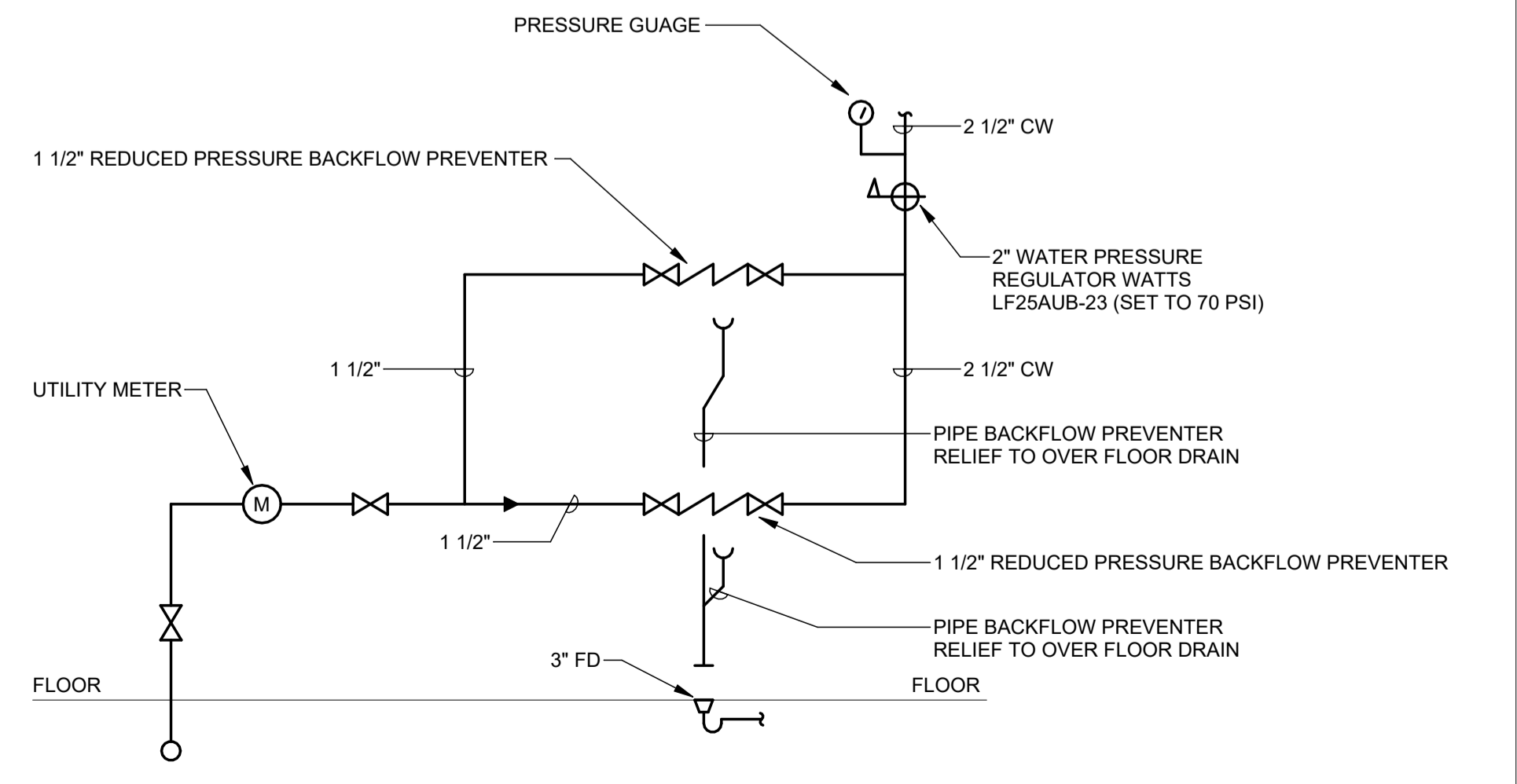
ELECTRIC WATER HEATER PIPING DIAGRAM - THERMOSTATIC MIXING VALVE
(SHELF MOUNTED WITH RHWP) SCALE: NONE



ELECTRIC WATER HEATER PIPING DIAGRAM - THERMOSTATIC MIXING VALVE
SCALE: NONE



GAS ENTRY SCHEMATIC
SCALE: NONE



WATER ENTRANCE DIAGRAM
SCALE: NONE

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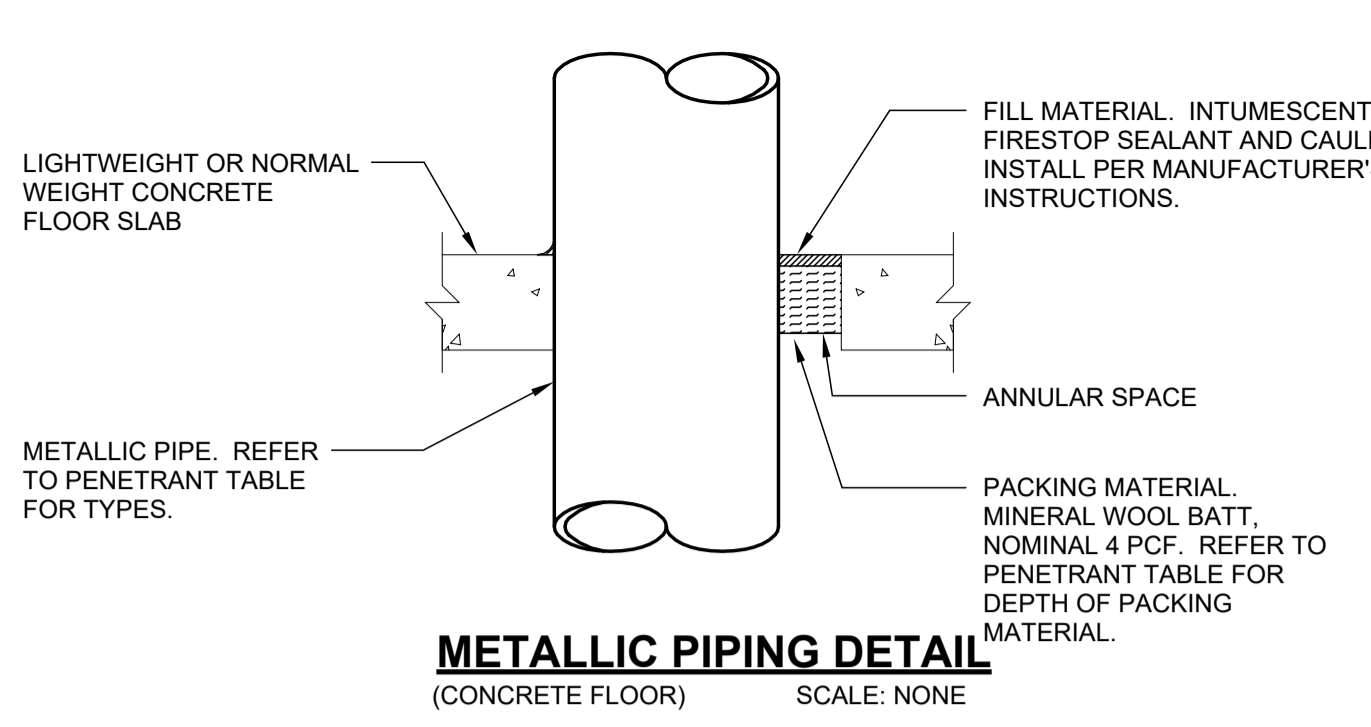
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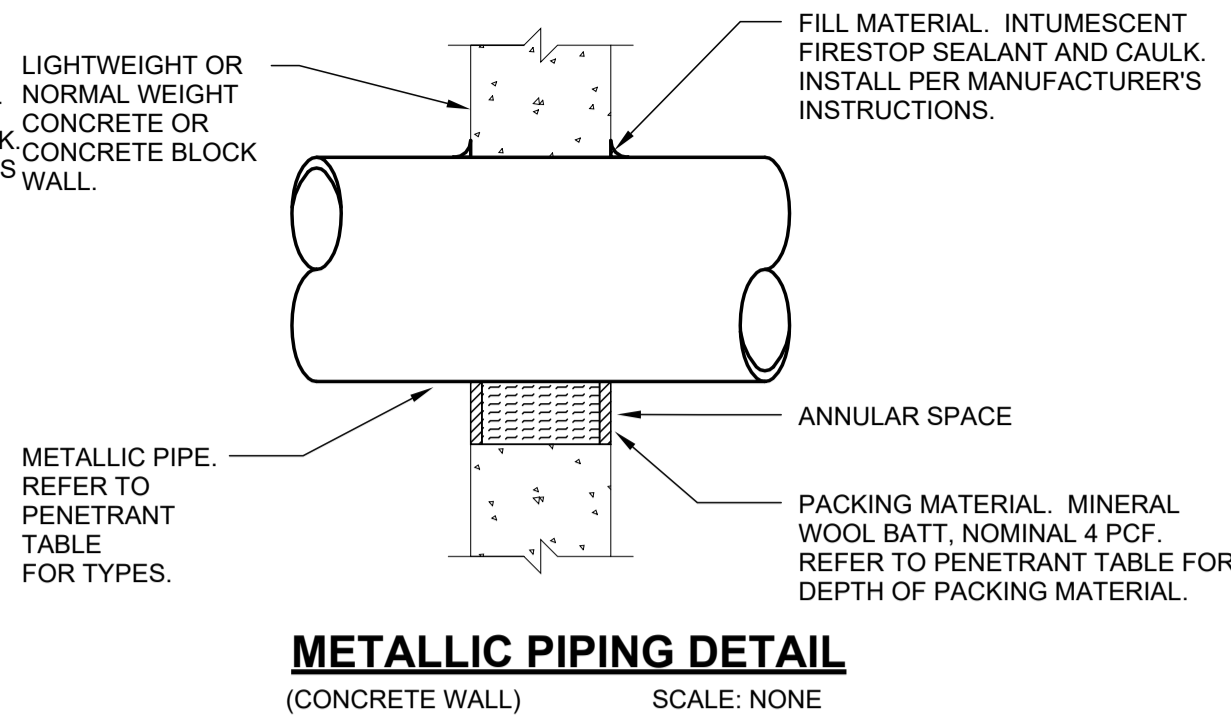
P601



METALLIC PIPING DETAIL
(CONCRETE FLOOR) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. C-AJ-1079, 2 AND 3 HR. FLOOR FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - 3" MIN DEPTH OF PACKING MATERIAL FOR ANNUAL SPACES OVER 2".
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY.
 - METALLIC PIPE OR TUBING CAN BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM.
 - THE ANNUAL SPACE BETWEEN THE PIPE OR TUBING AND THE PERIPHERY OF THE OPENING SHALL BE A MINIMUM 0"(POINT CONTACT) TO A MAXIMUM 4".

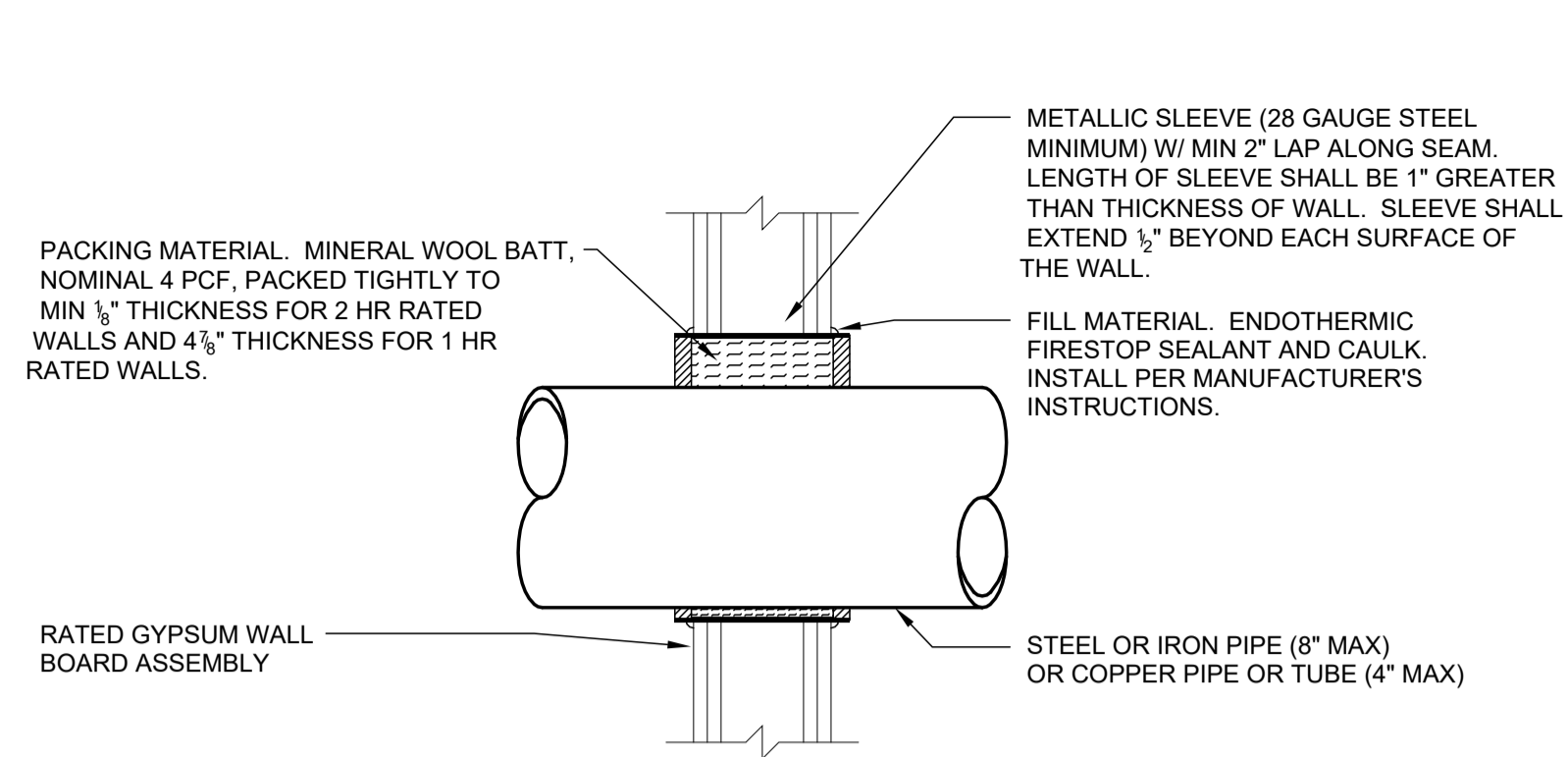
PENETRANT TYPE	MAX. PIPE SIZE	PACKING MATERIAL DEPTH	REMARKS
STEEL OR IRON PIPE	6"	1½"	SEE NOTE 2
STEEL OR IRON PIPE	24"	3"	SEE NOTE 2
COPPER PIPE OR TUBE	6"	3"	SEE NOTE 2



METALLIC PIPING DETAIL
(CONCRETE WALL) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. C-AJ-1079, 2 AND 3 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - 3" MIN DEPTH OF PACKING MATERIAL FOR ANNUAL SPACES OVER 2".
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 - METALLIC PIPE OR TUBING CAN BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM.
 - THE ANNUAL SPACE BETWEEN THE PIPE OR TUBING AND THE PERIPHERY OF THE OPENING SHALL BE A MINIMUM 0"(POINT CONTACT) TO A MAXIMUM 4".

PENETRANT TYPE	MAX. PIPE SIZE	PACKING MATERIAL DEPTH	REMARKS
STEEL OR IRON PIPE	6"	1½"	SEE NOTE 2
STEEL OR IRON PIPE	24"	3"	SEE NOTE 2
COPPER PIPE OR TUBE	6"	3"	SEE NOTE 2

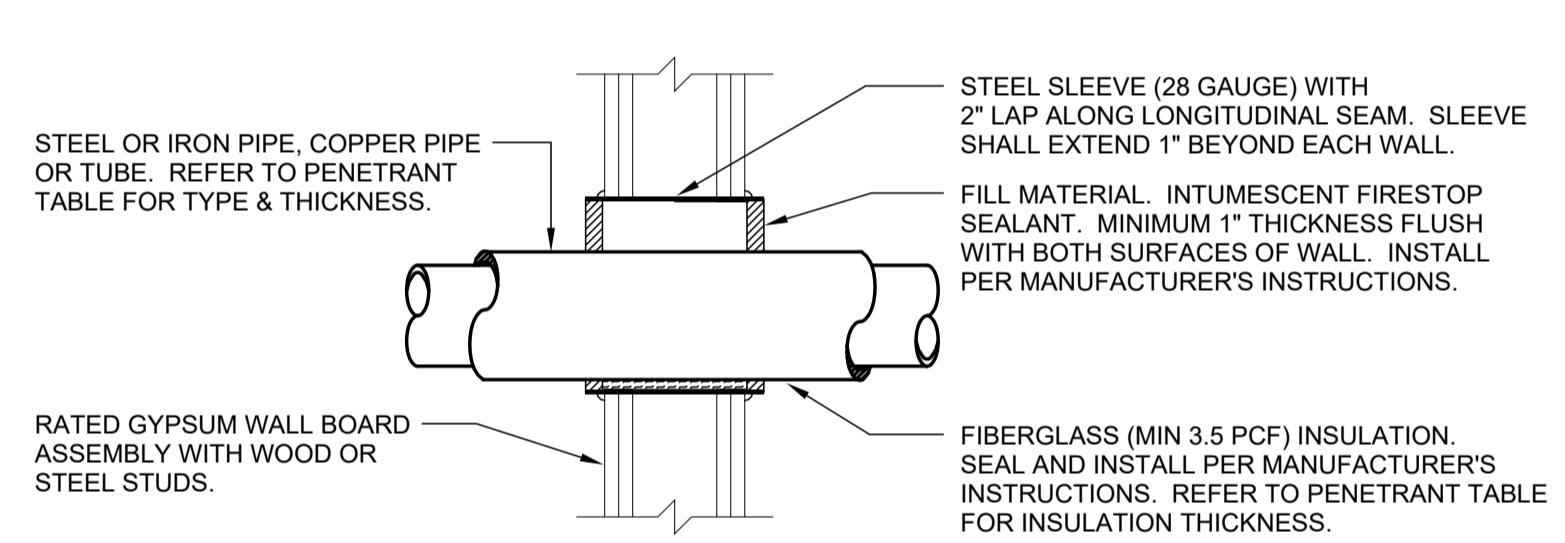


METALLIC PIPING WITH SLEEVE DETAIL
(GYPSUM WALL BOARD CONSTRUCTION) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. W-L-1078, 1 AND 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 - METALLIC PIPE OR TUBING CAN BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM.
 - THE ANNUAL SPACE BETWEEN THE PIPE OR TUBING AND THE PERIPHERY OF THE OPENING SHALL BE MINIMUM TO A MAXIMUM 2½".

GENERAL NOTES

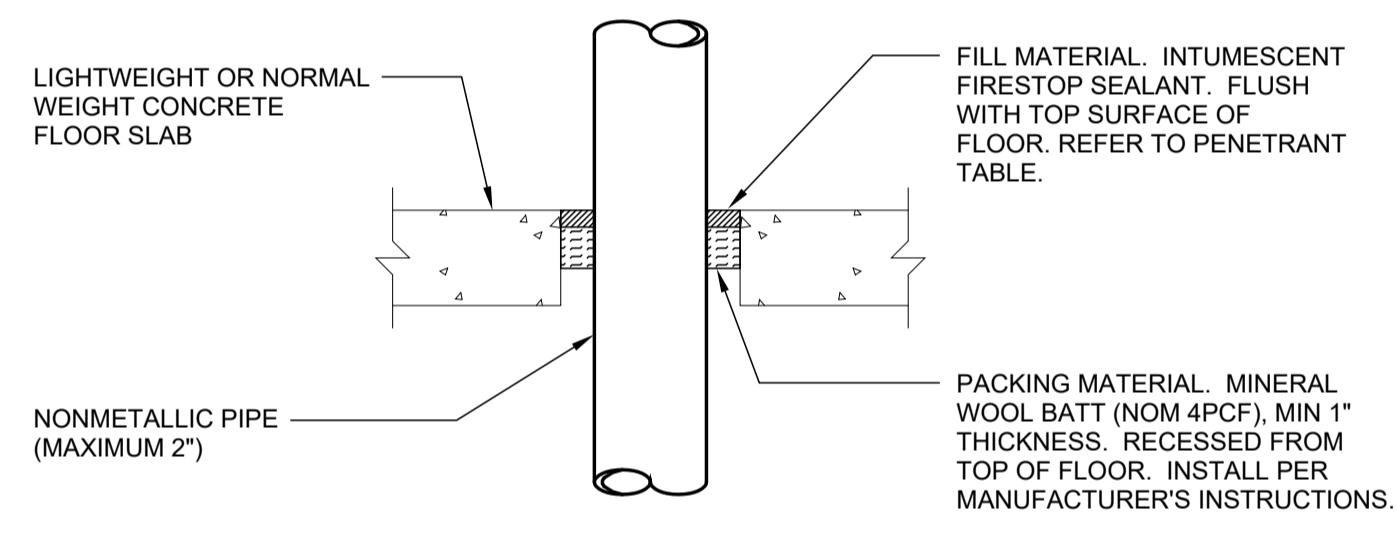
- REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS.
- FIRESTOPPING MATERIALS SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 (UL 1479), AND ASTM E119.
- SPECIFIED TECHNOLOGIES INC. (STI) IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION AND ACCEPTABLE MANUFACTURERS.



METALLIC PIPING WITH INSULATION DETAIL
(GYPSUM WALL BOARD CONSTRUCTION) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. W-L-5091, 1 OR 2 HR. WALL FIRE RATING REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 - METALLIC PIPE OR TUBING CAN BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM.

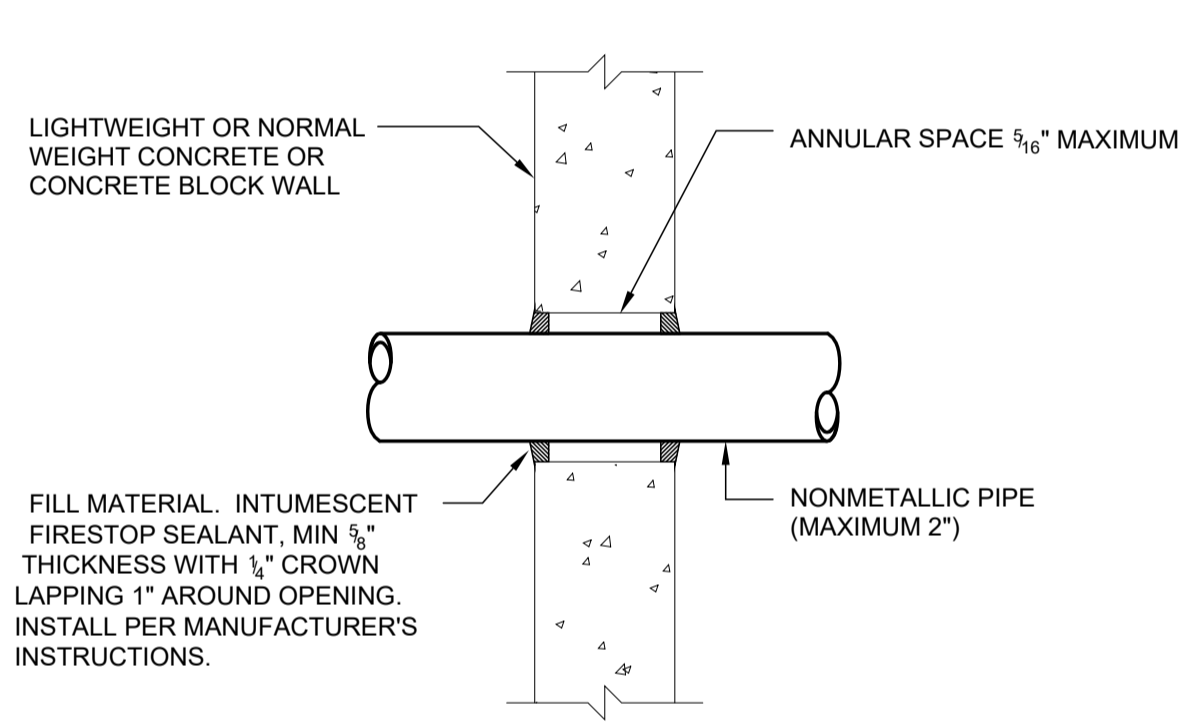
PENETRANT TYPE	MAX. PIPE SIZE	PIPE INSULATION THICKNESS	ANNULUS
STEEL OR IRON PIPE	12"	2" MAX	0" TO 1 ½"
COPPER PIPE OR TUBE	6"	2" MAX	0" TO 1 ½"



NONMETALLIC PIPING DETAIL
(CONCRETE FLOOR) SCALE: NONE

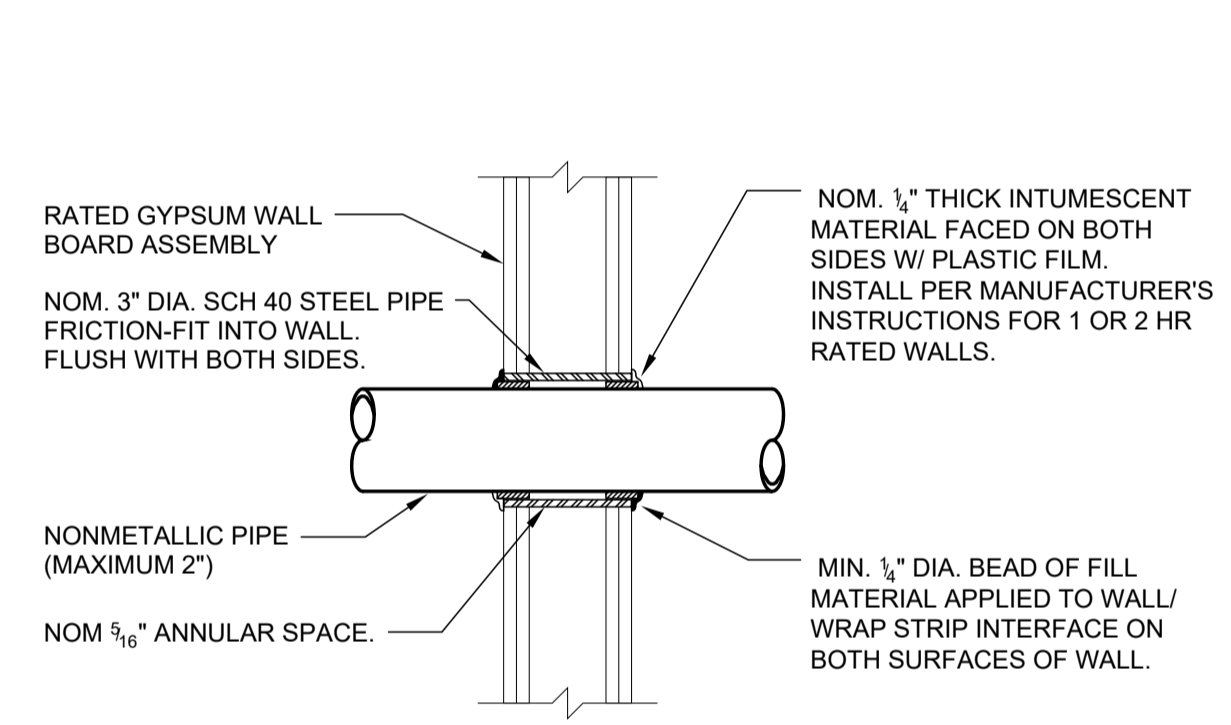
- NOTES:**
- UL SYSTEM NO. C-AJ-2031, 2 HR. FLOOR FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - NONMETALLIC PIPING SHALL BE CENTERED WITHIN THE FIRESTOP SYSTEM.
 - PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY.

PENETRANT TYPE	MAX. PIPE SIZE	TYPE OF PIPING SYSTEM	ANNULUS	MIN. FILL MATERIAL THICKNESS
PVC PIPE	2"	CLOSED OR VENTED	5/16" TO 1 3/8"	2"
CPVC PIPE	2"	CLOSED	5/8"	2"
PVC OR CPVC PIPE	1 1/2"	CLOSED	5/16" TO 1 3/8"	1 1/2"
PVC OR CPVC PIPE	1 1/2"	CLOSED	5/16" TO 1 3/8"	1 1/2"



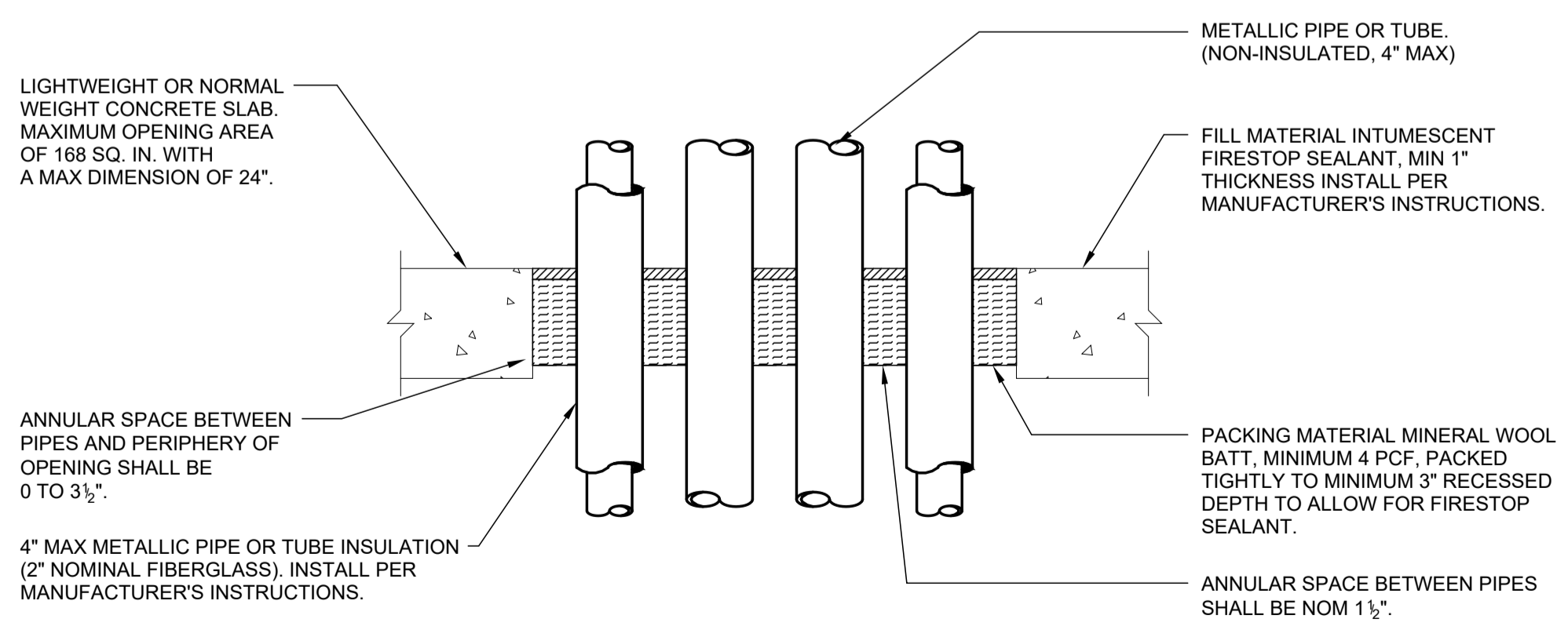
NONMETALLIC PIPING DETAIL
(CONCRETE WALL) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. C-AJ-2018, 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - NONMETALLIC PIPING SHALL BE CENTERED WITHIN THE FIRESTOP SYSTEM.
 - PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.



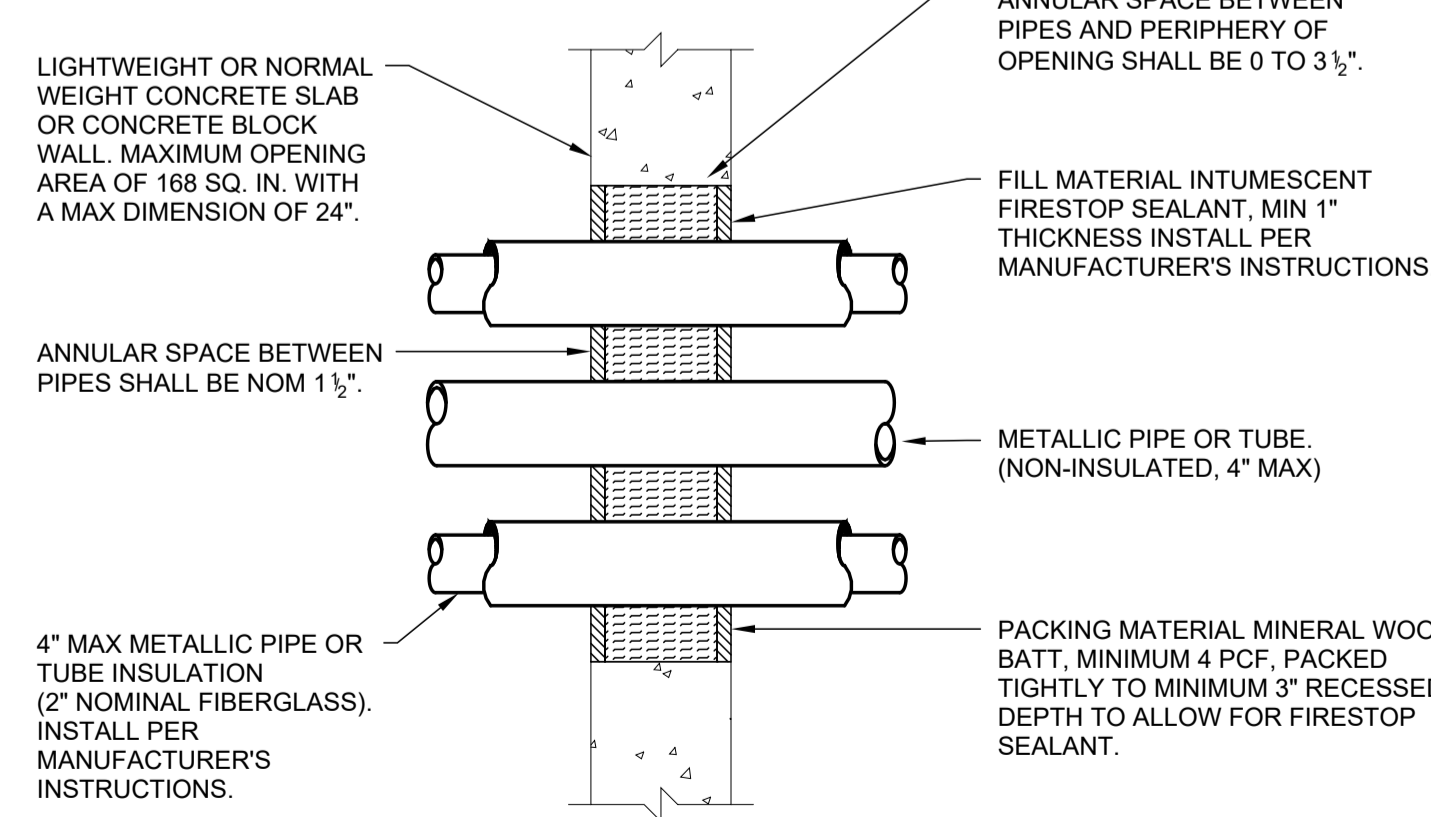
NONMETALLIC PIPING DETAIL
(GYPSUM WALL BOARD CONSTRUCTION) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. W-L-2048, 1 AND 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - NONMETALLIC PIPING SHALL BE CENTERED WITHIN THE FIRESTOP SYSTEM.
 - PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.



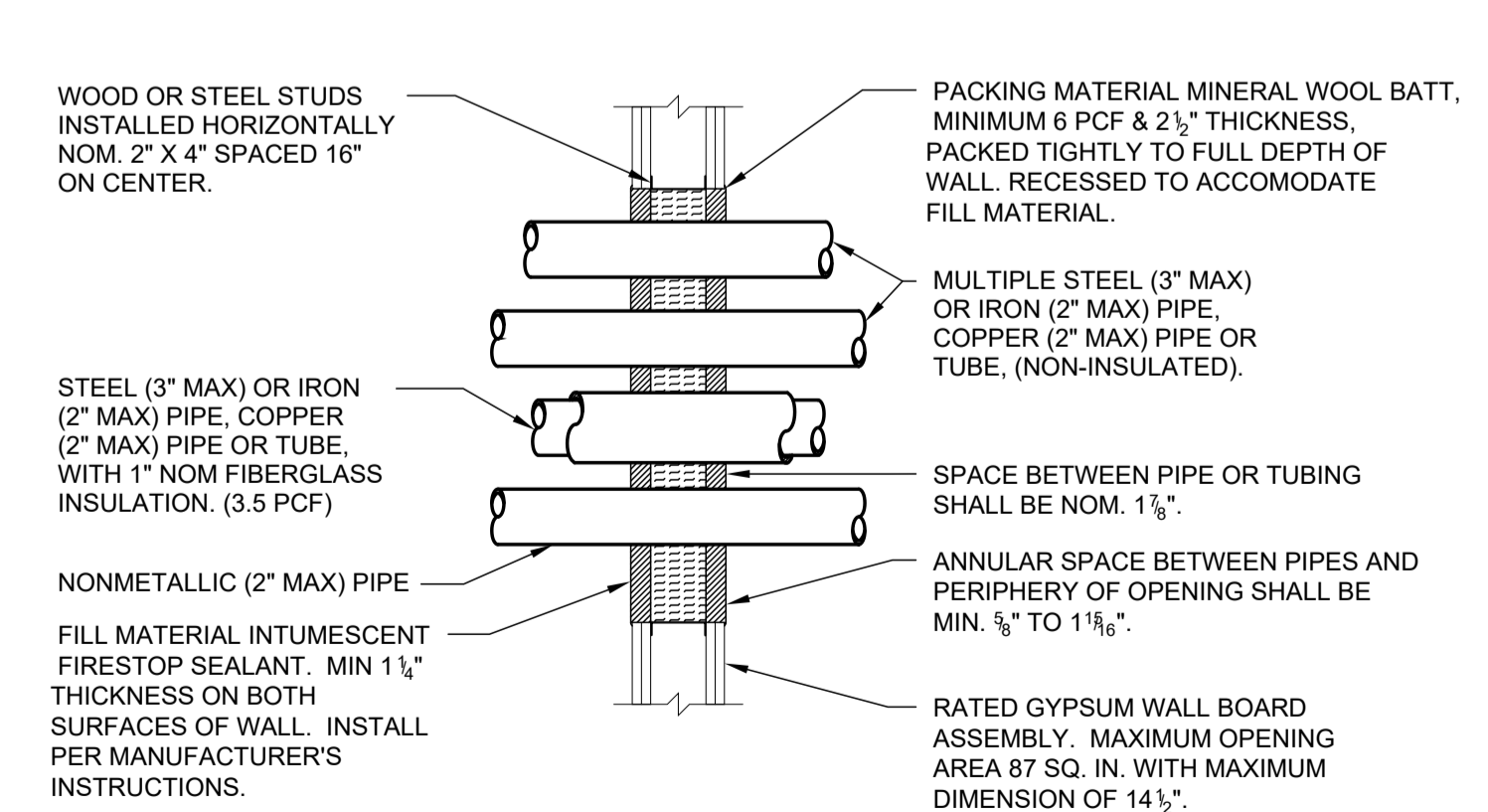
MULTIPLE METALLIC PIPE PENETRATIONS DETAIL
(CONCRETE FLOOR) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. C-AJ-8053, 2 HR. FLOOR FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY.



MULTIPLE METALLIC PIPE PENETRATIONS DETAIL
(CONCRETE WALL) SCALE: NONE

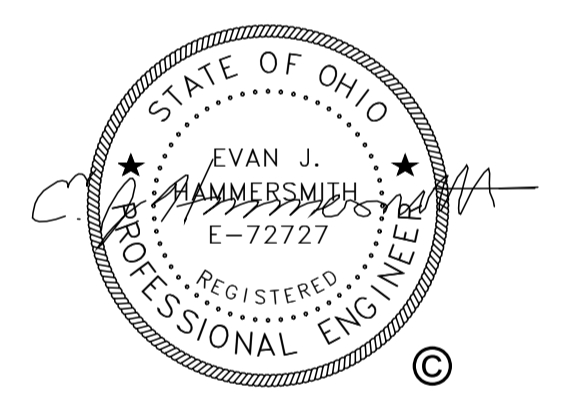
- NOTES:**
- UL SYSTEM NO. C-AJ-8053, 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.



MULTIPLE METALLIC AND NONMETALLIC PIPE PENETRATIONS DETAIL
(GYPSUM WALL BOARD CONSTRUCTION) SCALE: NONE

- NOTES:**
- UL SYSTEM NO. W-L-8003, 1 OR 2 HR. WALL FIRE RATING. REFER TO UL DIRECTORY INSTALLATION INSTRUCTIONS.
 - PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

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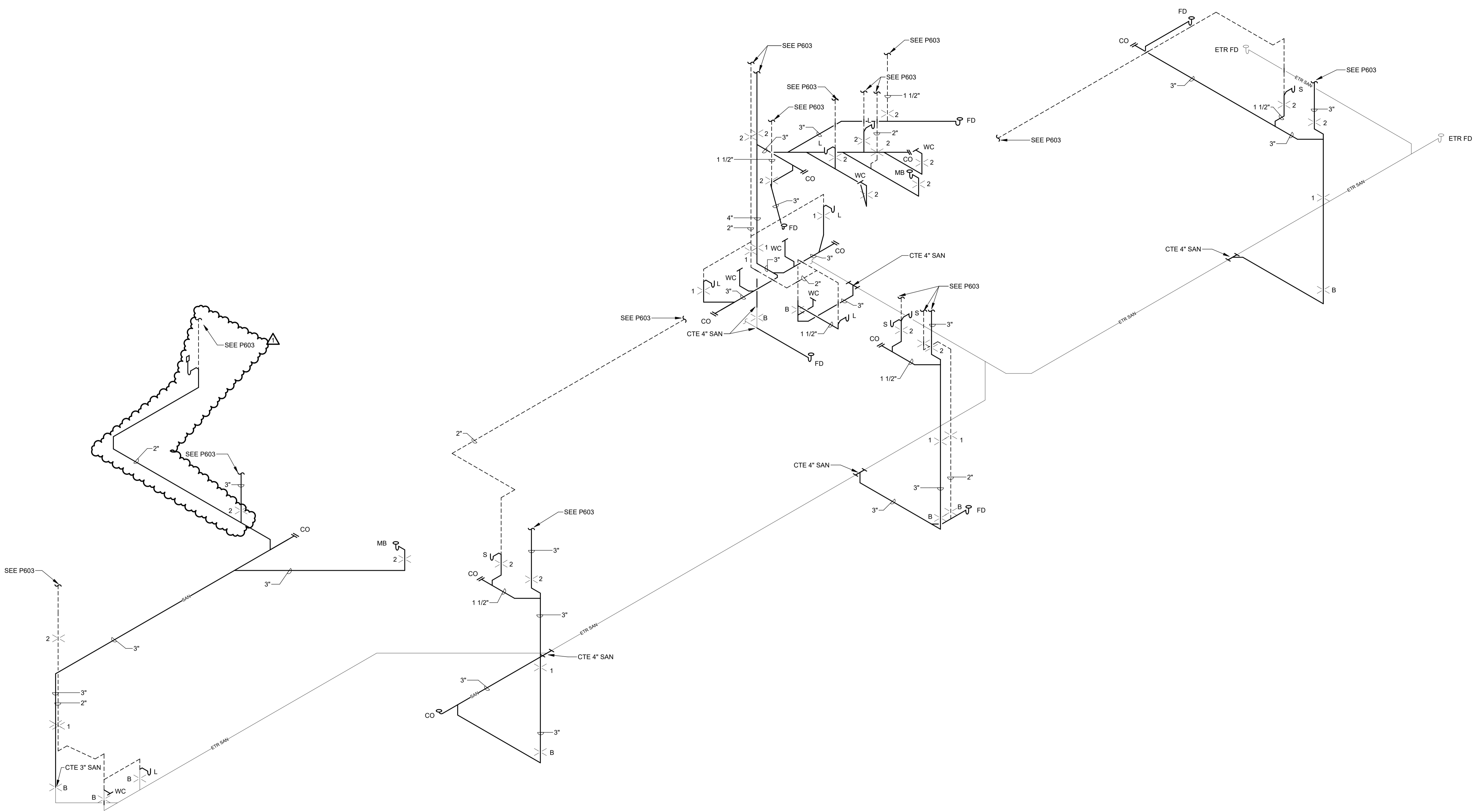
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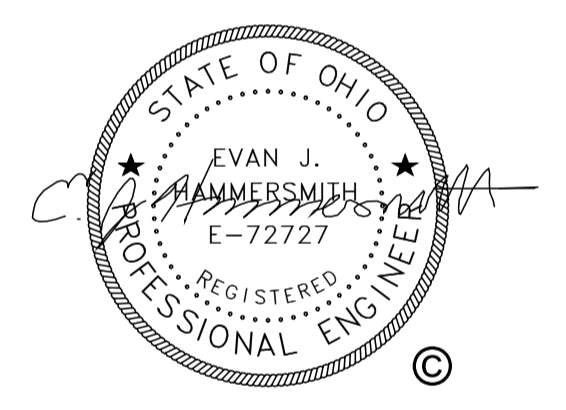
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DRAWING LIST - PLUMBING	
NUMBER	NAME
P001	PLUMBING SYMBOL LEGEND AND GENERAL NOTES
P002	PLUMBING SCHEDULES
P101	BASEMENT AND FIRST FLOOR PLUMBING PLAN
P102	SECOND AND THIRD FLOOR PLUMBING PLAN
P103	ROOF PLUMBING PLAN
P601	PLUMBING DETAILS AND DIAGRAMS
P602	PLUMBING DETAILS AND DIAGRAMS
P701	PLUMBING STACK DIAGRAMS
P702	PLUMBING STACK DIAGRAMS



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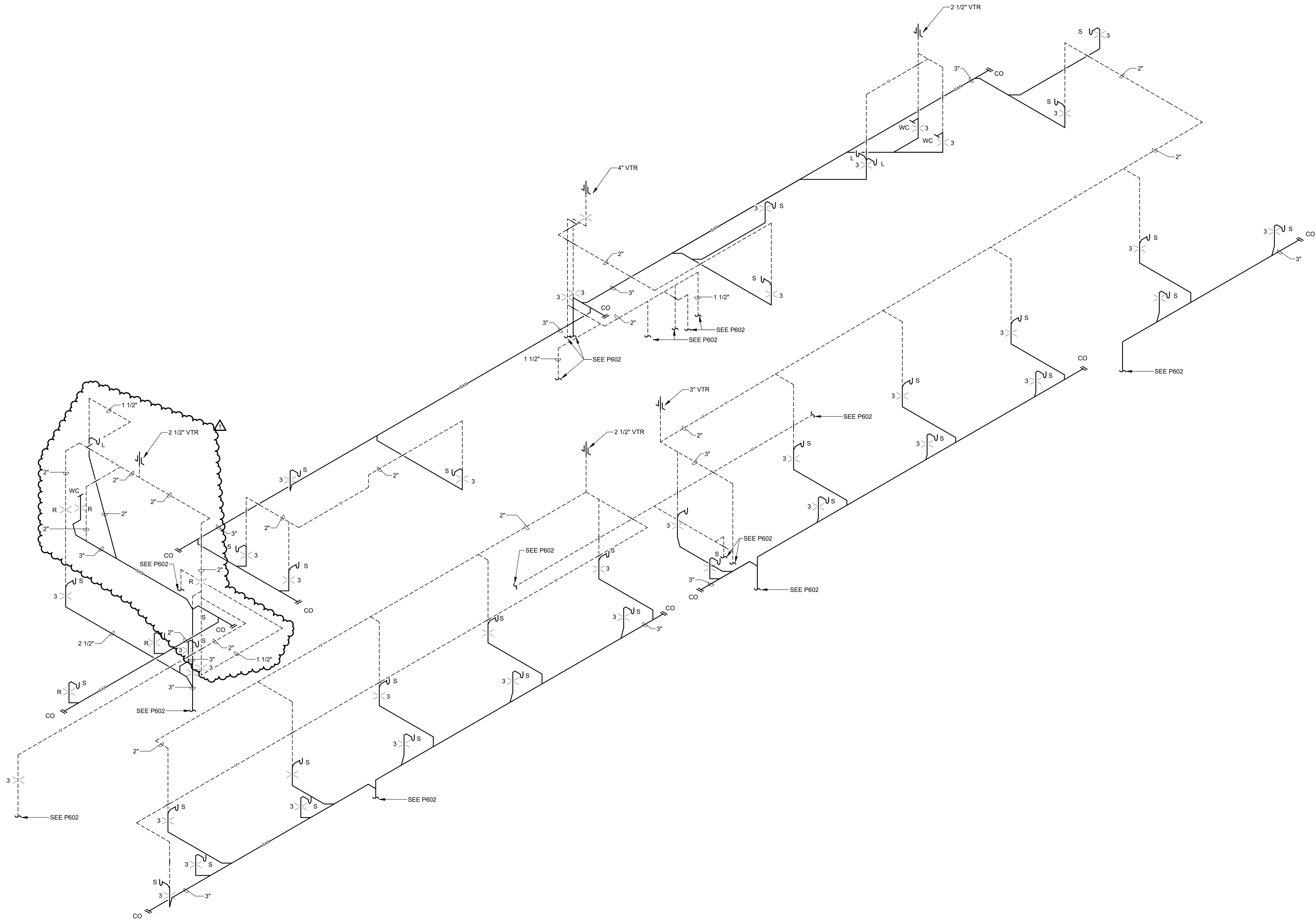
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