

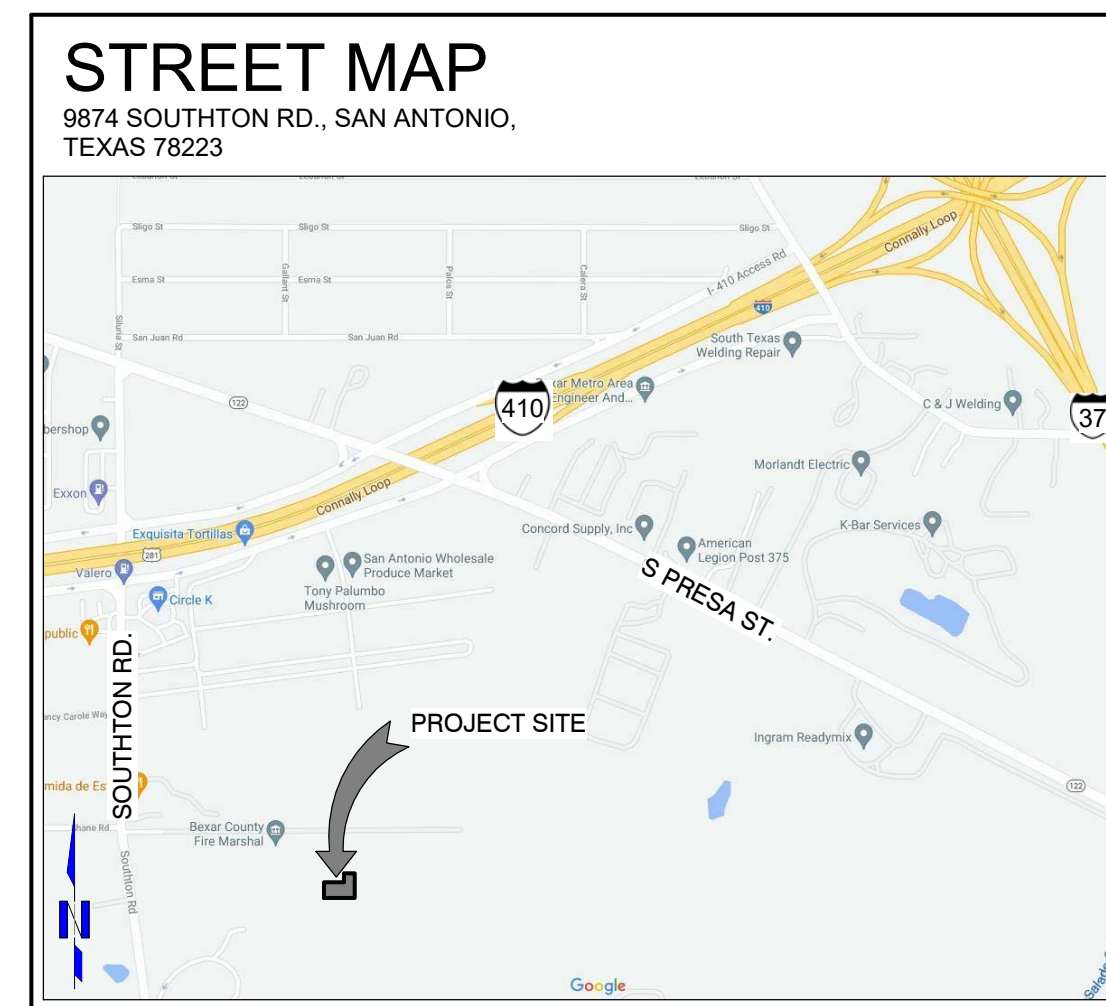
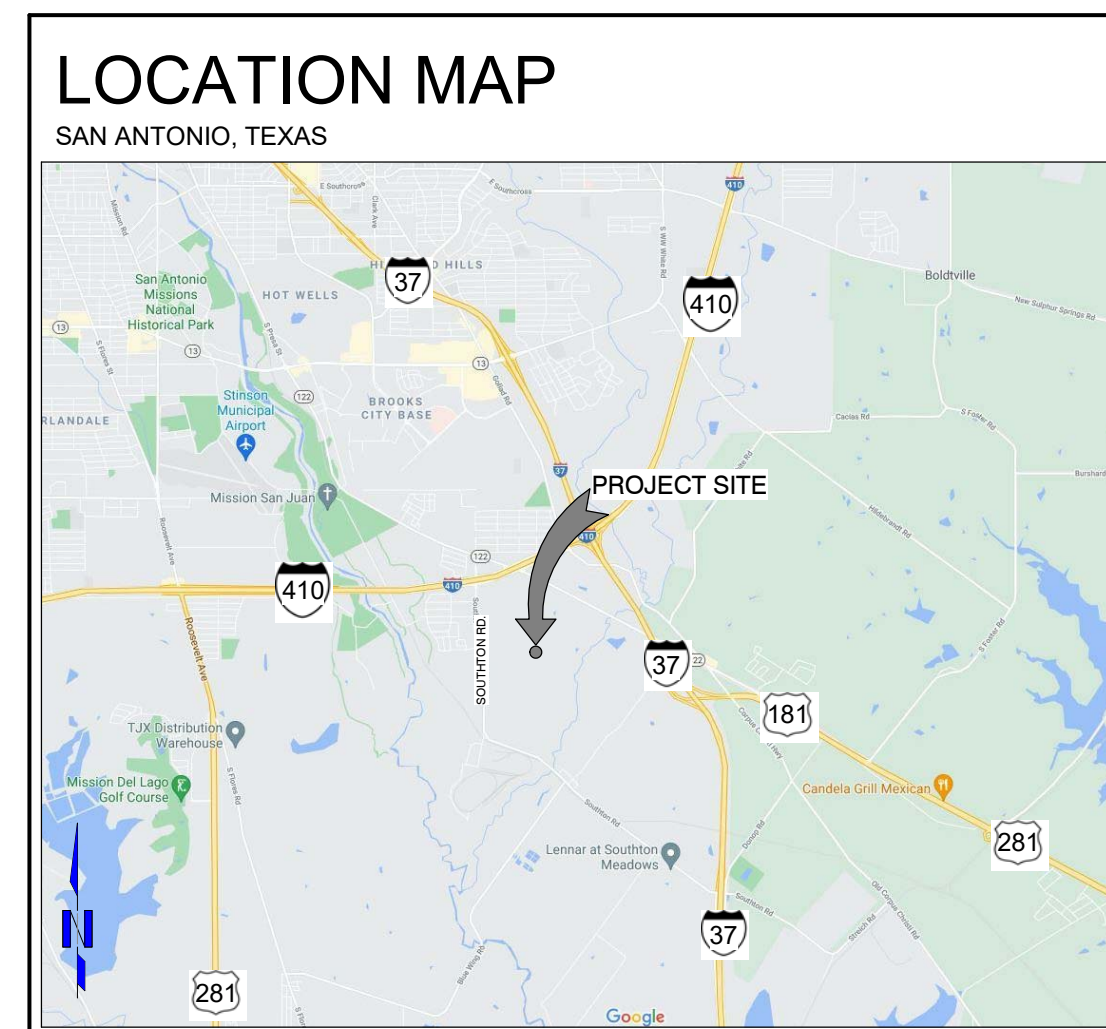
# CONTRACT DOCUMENTS - PERMIT SET

## BEXAR COUNTY PUBLIC WORKS

# SOUTHTON SERVICE CENTER

9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

09/30/2021



PROJECT NO.: 21014  
Revisions:



09/30/2021

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**CIVIL ENGINEER**  
SLAY ENGINEERING  
123 ALTGELT AVE.  
SAN ANTONIO, TEXAS 78201

**MEP ENGINEER**  
HMG & ASSOCIATES, INC.  
8000 IH-10 W, SUITE 1004  
SAN ANTONIO, TEXAS 78230

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**STRUCTURAL ENGINEER**  
LUNDY & FRANKE ENGINEERING  
549 HEIMER RD.  
SAN ANTONIO, TEXAS 78232

**LANDSCAPE ARCHITECT**  
C2 LANDGROUP, INC.  
100 WILLOW COVE  
CIBOLO, TEXAS 78108

### CONSTRUCTION DOCUMENT ORGANIZATION

This set of CONSTRUCTION DOCUMENTS is presented in two parts: a set of technical SPECIFICATIONS and a set of DRAWINGS.

#### 1. SPECIFICATIONS

SPECIFICATIONS are organized according to the divisions of the UNIFORM CONSTRUCTION INDEX as follows:

DIVISION 1	GENERAL REQUIREMENTS
DIVISION 2	EXISTING CONDITIONS
DIVISION 3	CONCRETE
DIVISION 4	MASONRY
DIVISION 5	METALS
DIVISION 6	WOOD, PLASTICS, AND COMPONENTS
DIVISION 7	THERMAL AND MOISTURE PROTECTION
DIVISION 8	OPENINGS
DIVISION 9	FINISHES
DIVISION 10	SPECIALTIES
DIVISION 11	EQUIPMENT
DIVISION 12	FURNISHINGS
DIVISION 13	SPECIAL CONSTRUCTION
DIVISION 14	CONVEYING EQUIPMENT
DIVISION 21	FIRE SUPPRESSION
DIVISION 22	PLUMBING
DIVISION 23	HEATING, VENTILATION AND AIR-CONDITIONING
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DIVISION 33	UTILITIES
DIVISION 34	TRANSPORTATION
DIVISION 35	WATERWAY AND MARINE CONSTRUCTION
DIVISION 40	PROCESS INTEGRATION
DIVISION 41	MATERIAL PROCESSING AND HANDLING EQUIPMENT
DIVISION 42	PROCESS HEATING, COOLING AND DRYING EQUIPMENT
DIVISION 43	PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE
DIVISION 44	POLLUTION CONTROL EQUIPMENT
DIVISION 45	INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT
DIVISION 48	ELECTRICAL POWER GENERATION

#### 2. DRAWINGS

DRAWINGS are organized according to disciplines, with each discipline describing a general aspect of the construction. Disciplines are arranged in the order of typical construction sequence as follows:

**A-ARCHITECTURAL:**  
Work required to produce the basic building envelope, including: Floor plan(s), roof plan(s), exterior elevations, building sections, wall sections, stair details, exterior enclosure details, interior floor plan(s), enlarged plans, interior elevations, interior partition sections, interior details, cabinets, millwork, equipment details, ceilings and floor finishes.

**M-MECHANICAL:**  
Work related to heating, ventilating and cooling systems.

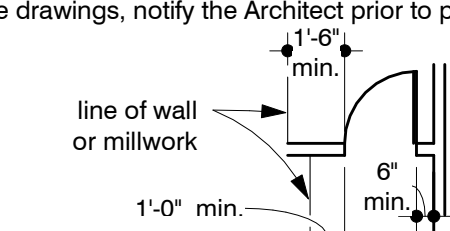
**P-PLUMBING:**  
Work related to plumbing systems.

**E-ELECTRICAL:**  
Work related to the electrical system.

#### 3. DRAWING NUMBERING

### 16 JAMB DETAIL

Each drawing is numbered preceding the drawing title. In this example, drawing 16 represents the sixteenth drawing on a sheet of the architectural discipline, a JAMB DETAIL.



#### 4. SYMBOLS

**TRUE NORTH** (solid black arrow) represents the direction of true north for this set of drawings. **PLAN NORTH** (outlined arrow) represents the direction of "project" north for this set of drawings.

This symbol is a key to a building section drawing taken along the straight line of the symbol. The arrow points in the direction of the view for the section. The number is a reference to the section drawing, in this example, drawing 2, sheet A6.

This symbol is a key to a section drawing taken along the straight line of the symbol. The arrow points in the direction of the view for the section. The number is a reference to the section drawing, in this example, drawing 2, sheet A6.

This symbol is a key to a detail drawn of the area within the dashed line. The number is a reference to the detail drawing, in this example, drawing 6, sheet A2.2.

This symbol is a key to an elevation drawing. The arrow points in the direction of view for the elevation. The number is a reference to the elevation drawing, in this example, drawing 5, sheet A3.0.

This symbol is a key to a partition type, if included. The number is a reference to the partition.

This symbol is a key to the door schedule. All doors are keyed with a letter "D" and the room number. If more than one door, "A", "B", etc. is added. See door "D103A" in the Door Schedule.

This symbol is a key to the window schedule if included. Windows are keyed with a pre-fix "W". In this example, see "W1" in the Window Schedule.

#### 5. DIMENSIONS

All plan dimensions are to the face of finish or face of masonry unless otherwise noted.



#### 6. TYPICAL DOOR PLACEMENT

All doors are to be installed with the clearances indicated below unless otherwise noted. If there is a conflict with the drawings, notify the Architect prior to performing work on that area.



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**LAREDO**  
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T: 956.791.0405

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**CODE SUMMARY**

Applicable Codes: All work under this contract shall comply with the provisions of the specifications and drawings, and shall satisfy all applicable codes, ordinances and regulations of all governing bodies involved. All permits and some things necessary for the proper execution of the work shall be secured and paid for by the contractor involved.

- Building Code: • 2018 International Building Code with local amendments
- Electrical Code: • 2017 National Electrical Code with local amendments
- Energy Code: • 2018 International Energy Conservation Code with local amendments
- Fire Code: • 2018 International Fire Code with local amendments
- Mechanical Code: • 2018 International Mechanical Code with local amendments
- Plumbing Code: • 2018 International Plumbing Code with local amendments
- ADA: • 2012 Texas Accessibility Standards

**GENERAL INFORMATION**  
 Project: Southton Service Center  
 Address: 9874 Southton Rd., San Antonio, Texas 78223  
 Purpose: Office Building & Vehicle Service Center  
 Occupancy: Group B  
 Construction Type: Type II-B  
 Sprinkler System: N/A

**OCCUPANT LOAD (Table 1004.5)**  
 Service Center:  
 Office (B Business): 5,406 SF at 1:150 = 36 Occupants  
 Industrial (F-1): 5,880 SF at 1:1100 = 57 Occupants  
 Storage Mezzanine: 2,130 SF at 1:300 = 8 Occupants

**BUILDING AREA (Table 506.2)**  
 First Floor: 10,980 SF  
 Mezzanine: 2,130 SF  
**Total:** 13,110 SF < 23,500 SF Allowed Per Floor

**NUMBER OF EXITS & EXIT ACCESS**  
 First Floor: (Table 1006.3.2)  
 101 Occupants < 500 Occupants  
 - 2 Exits Required < 5 Exits Provided  
 Overall Diagonal: 192' - 0"  
 Exit Separation: (1007.1.1)  
 192' - 0" / 2 = 96' Minimum  
 96' - 0" Min. Separation Provided > 96' - 0" Min. Required

Travel Distance: (Table 1017.2)  
 113' - 0" Max. Travel Distance Provided < 200' - 0" Max. Distance Allowed

**MEANS OF EGRESS SIZING (1005)**  
 Other Egress Components: (1005.3.2)  
 101 Occupants x 0.2" = 14"  
 20.2" Required < 193" Provided

Minimum Corridor Width: (Table 1020.2)  
 44"

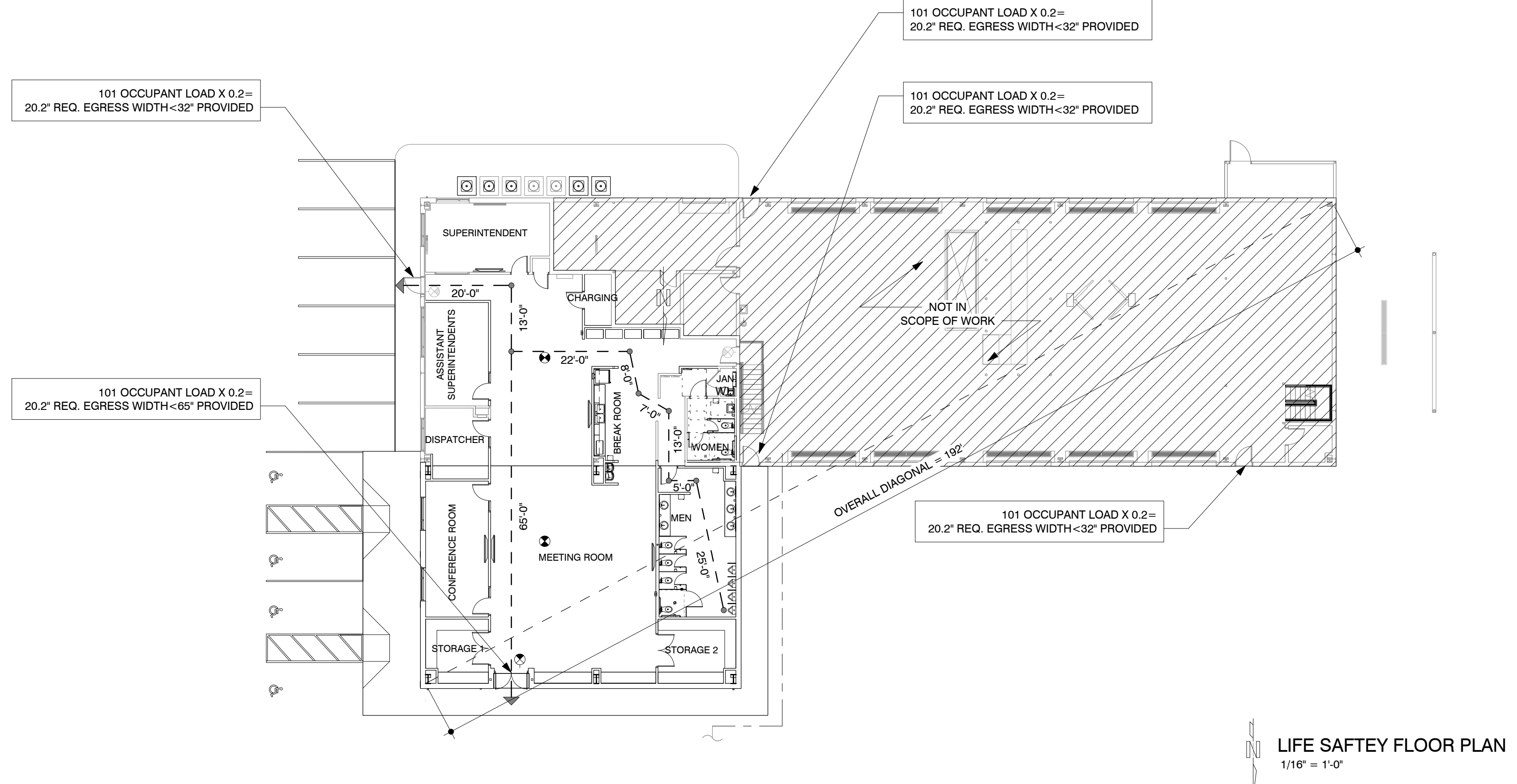
**PLUMBING FIXTURES**  
 Water Closets: 6 Provided = 4 Required  
 Lavatories: 6 Provided = 3 Required  
 Drinking Fountain: 1 Provided = 1 Required  
 Service Sink: 1 Provided = 1 Required

**PARKING REQUIREMENTS (Table 526-3b)**  
 SERVICE - PROFESSIONAL OFFICE  
 Minimum = 1 per 300 sf GFA = (13,110 sf x 1)/300 = 44  
 Maximum = 10 per 1,000 sf GFA = (13,110 sf x 10)/1,000 = 131  
 Provided = 96 Parking Spaces (See 1/A.1.0 Site Plan)

**MINIMUM # OF REQUIRED ACCESSIBLE PARKING SPACES (Table 208.2)**  
 4 H.C. space required = 4 H.C. Spaces provided

**LIFE SAFETY**

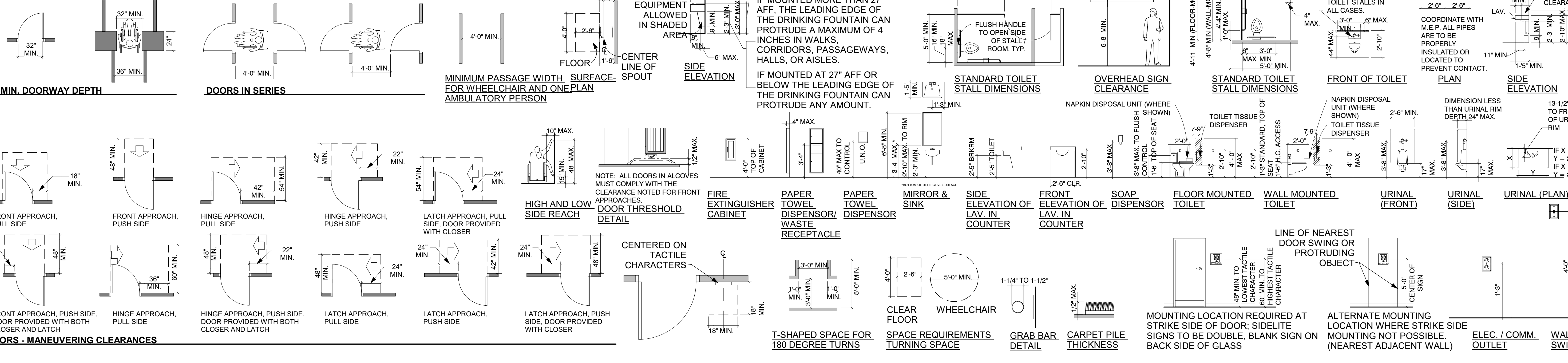
EXIT SIGN	1 HOUR FIRE RATED - STAIRS, ELEVATOR AND SHAFTS
TOTAL TRAVEL DISTANCE TO AN EXIT	NON RATED
RECESSED FIRE EXTINGUISHER IN CABINET	NOT USED
FIRE EXTINGUISHER - WALL MOUNTED	NOT USED



**ACCESSIBILITY STANDARDS**

**NOTE:** ALL ASPECTS OF THE PROJECT SHALL COMPLY WITH TEXAS ACCESSIBILITY STANDARDS (TAS) 2012 EDITION, THE ELIMINATION OF ARCHITECTURAL BARRIERS - TEXAS GOVERNMENT CODE, CHAPTER 469; EFFECTIVE MARCH 15TH, 2012. INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING DRAWINGS FOR MINIMUM DIMENSIONS AND CLEARANCES ONLY.

**NOTE:** 1. ALL MOUNTING HEIGHTS ARE GIVEN FOR FRONTAL APPROACH UNLESS NOTED OTHERWISE. 2. ALL MOUNTING HEIGHTS ARE GIVEN TO THE HIGHEST OPERABLE CONTROL UNLESS NOTED OTHERWISE.



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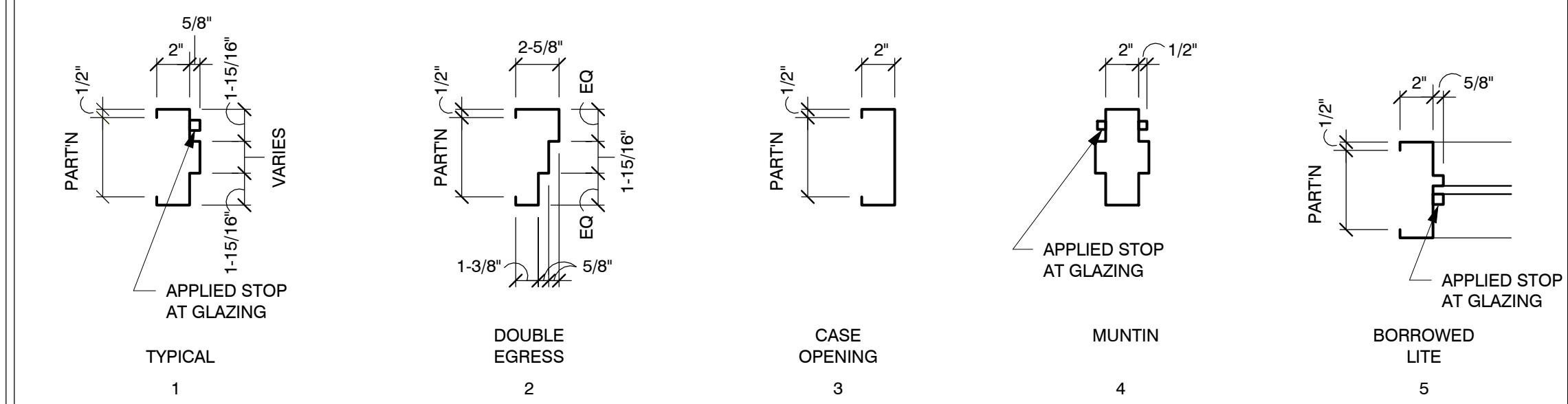
09/30/2021

**CONTRACT DOCUMENTS - PERMIT SET**  
**SOUTHTON SERVICE CENTER**  
 9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

Project NO. 21014  
 Date: 09/30/2021  
 Revisions:

**A0.0**  
 LIFE SAFETY & PROJECT INFORMATION

## DOOR AND BORROWED LITE FRAME TYPES



## SAFETY GLASS LOCATIONS

NOTE:  
NOT ALL CONDITIONS SHOWN BELOW ARE APPLICABLE TO THE SCOPE OF WORK.

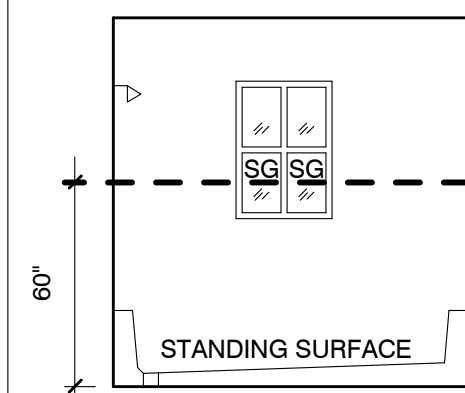
### GLASS SCHEDULE

GLASS PRODUCT SCHEDULE FOR WALLS AND DOORS

		ANNEALED	WIRED	TEMPERED	LAMINATED	FIRE-RATED
NP	-NOT PERMITTED					
A	-ACCEPTABLE					
NR	-NOT RECOMMENDED					
FIRE-RATED	SAFETY NOT REQUIRED	NP	A	NP	NP	A
	SAFETY REQUIRED	NP	NP	NP	NP	A
NON-FIRE-RATED	SAFETY NOT REQUIRED	A	A	A	A	NR
	SAFETY REQUIRED	NP	NP	A	A	NR

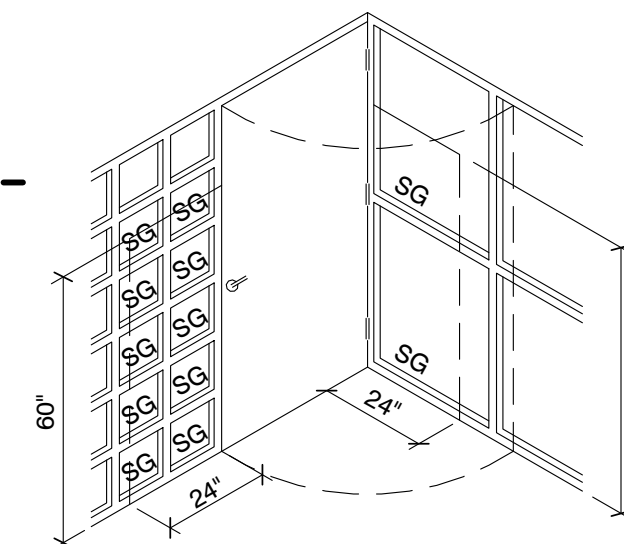
### SAFETY GLAZING (SG) IS REQUIRED FOR

#### WET AREAS



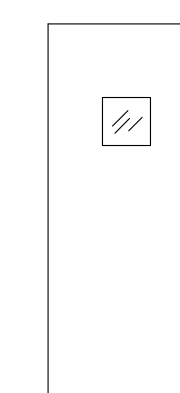
ANY GLASS AROUND THESE AREAS AT 60" OR LESS ABOVE THE STANDING SURFACE IS TO BE SAFETY GLASS

#### CLOSE PROXIMITY TO DOORS

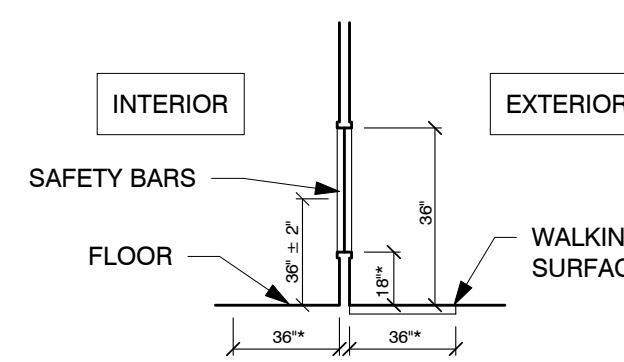


SAFETY GLASS IS TO BE USED FOR ALL DOORS AT HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATH TUBS OR SHOWERS

#### GLAZED OPENINGS IN DOORS



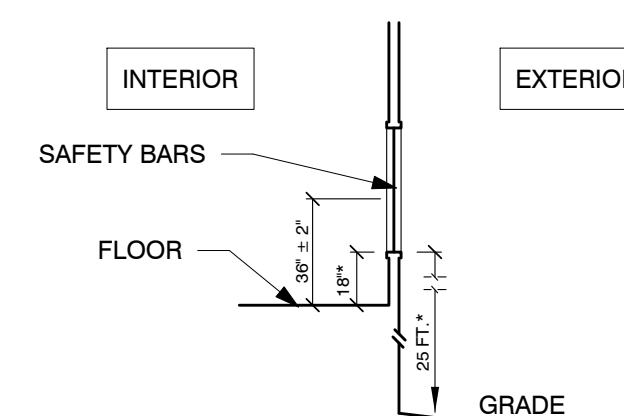
#### GLAZED OPENINGS IN PARTITIONS



SAFETY GLASS IS REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE PRESENT  
 \*TOP OF GLAZING  $\geq 36"$  AFF  
 \*BOTTOM OF GLAZING  $\leq 18"$  AFF  
 \*WALKING SURFACE IS LOCATED WITHIN 36" OF ONE OR BOTH SIDES

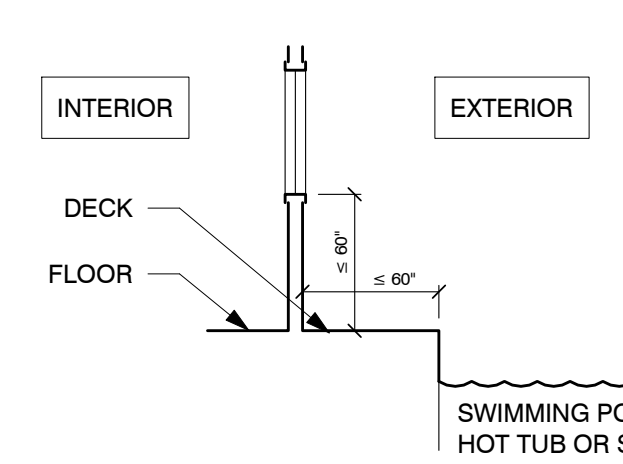
EXCEPTION:  
GLASS DOES NOT NEED TO BE SAFETY GLASS WHEN 1-1/2" SAFETY BAR IS INSTALLED WHERE WALKING SURFACE IS WITHIN 36" OF GLASS

#### SWIMMING POOLS, SPAS AND HOT TUBS



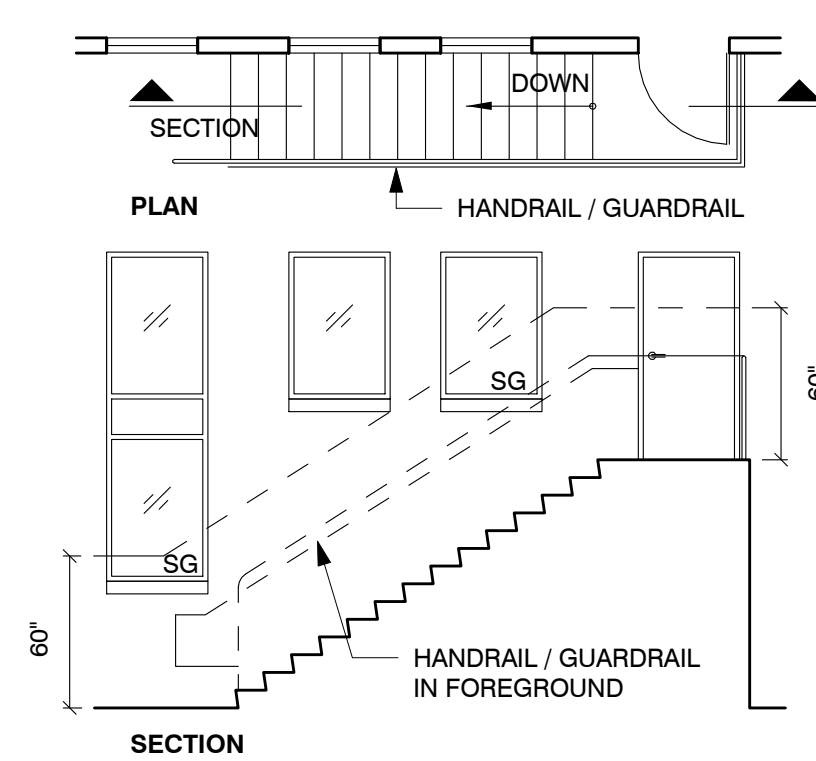
SAFETY GLASS IS REQUIRED AT INTERIOR LITE WHEN BOTTOM OF GLAZING 18" AFF  
 EXCEPTION:  
INTERIOR LITE DOES NOT NEED TO BE SAFETY GLASS WHEN 1-1/2" SAFETY BAR IS INSTALLED

SAFETY GLASS IS REQUIRED FOR EXTERIOR LITE EXCEPT WHEN THE BOTTOM OF THE GLAZING IS  $\geq 25$  FT ABOVE GRADE

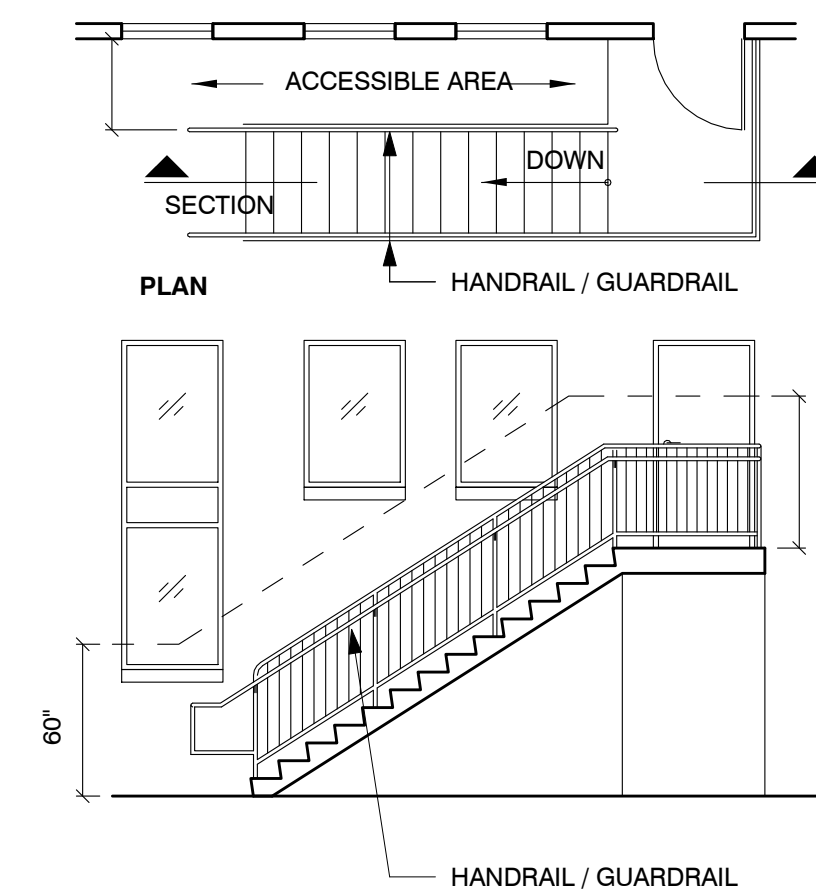


SAFETY GLASS IS REQUIRED IF THE BOTTOM OF GLASS IS  $\leq 60"$  AFF OR DECK  
 AND  
 GLAZING IS  $\leq 60"$  FROM EDGE OF POOL, HOT TUB OR SPA

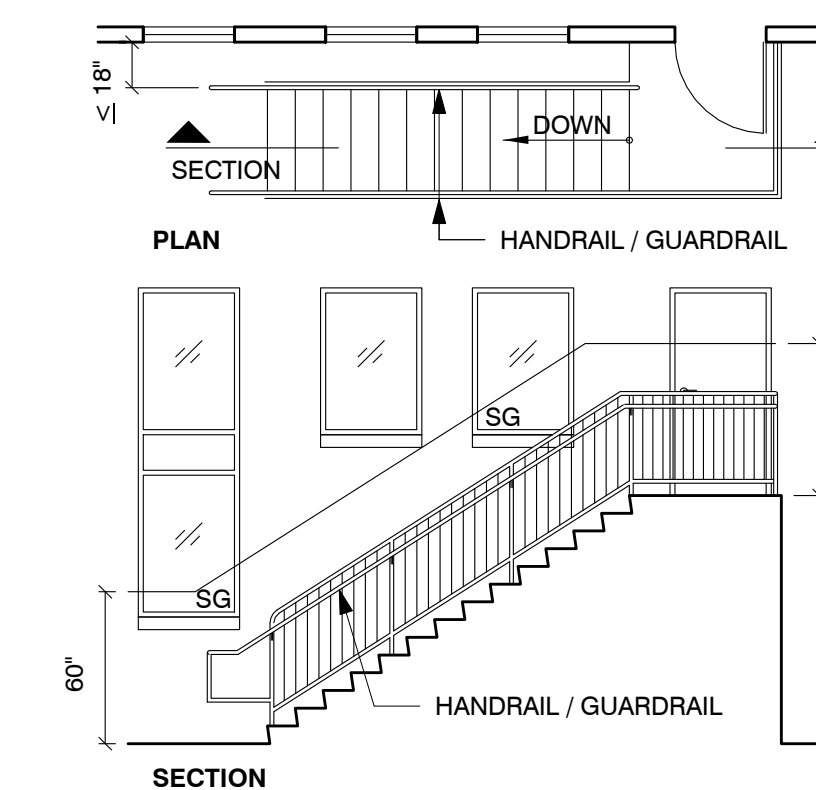
#### STAIRWAY (OR RAMP) AGAINST BUILDING



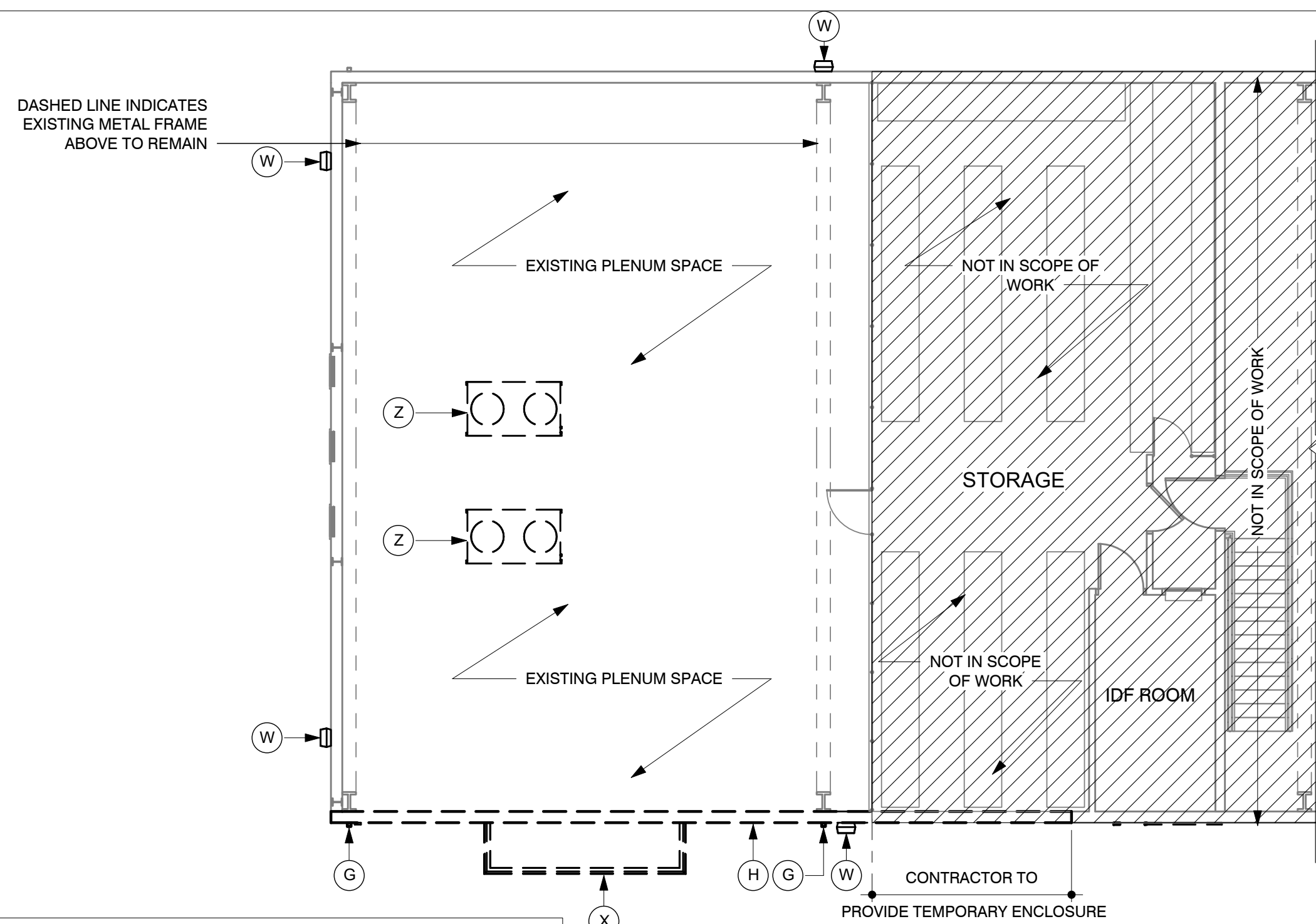
#### STAIRWAY (OR RAMP) WITH ACCESSIBLE AREA OF 36" OR MORE BETWEEN STAIR (OR RAMP) AND BUILDING



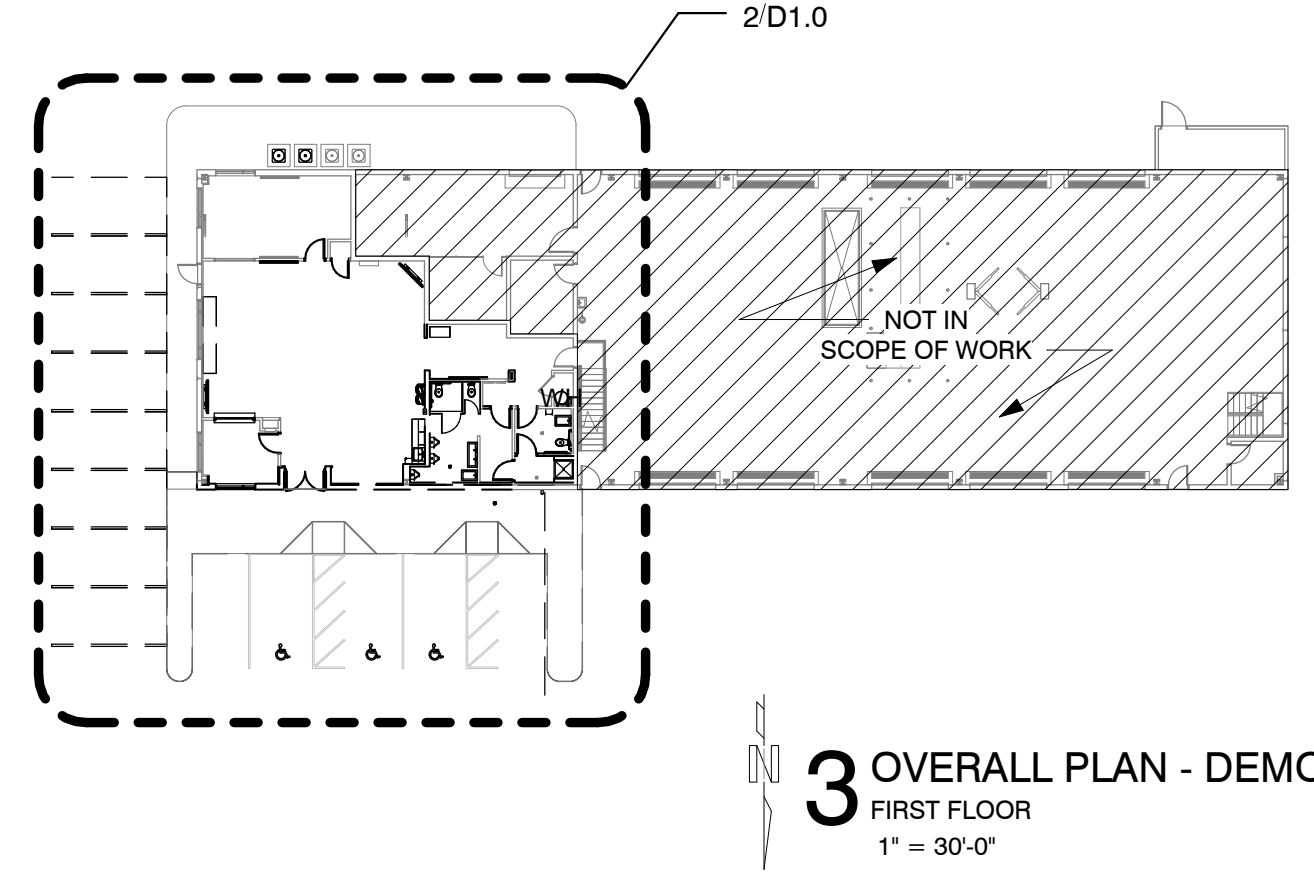
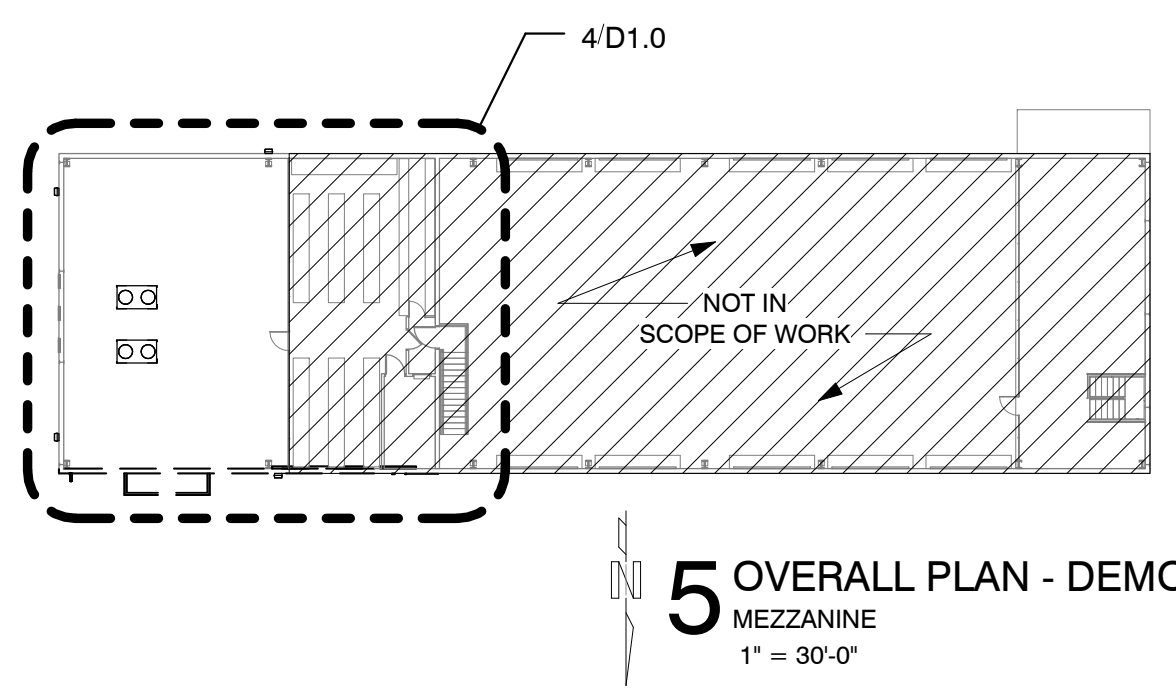
#### STAIRWAY (OR RAMP) WITHIN 18" OR LESS, FROM BUILDING



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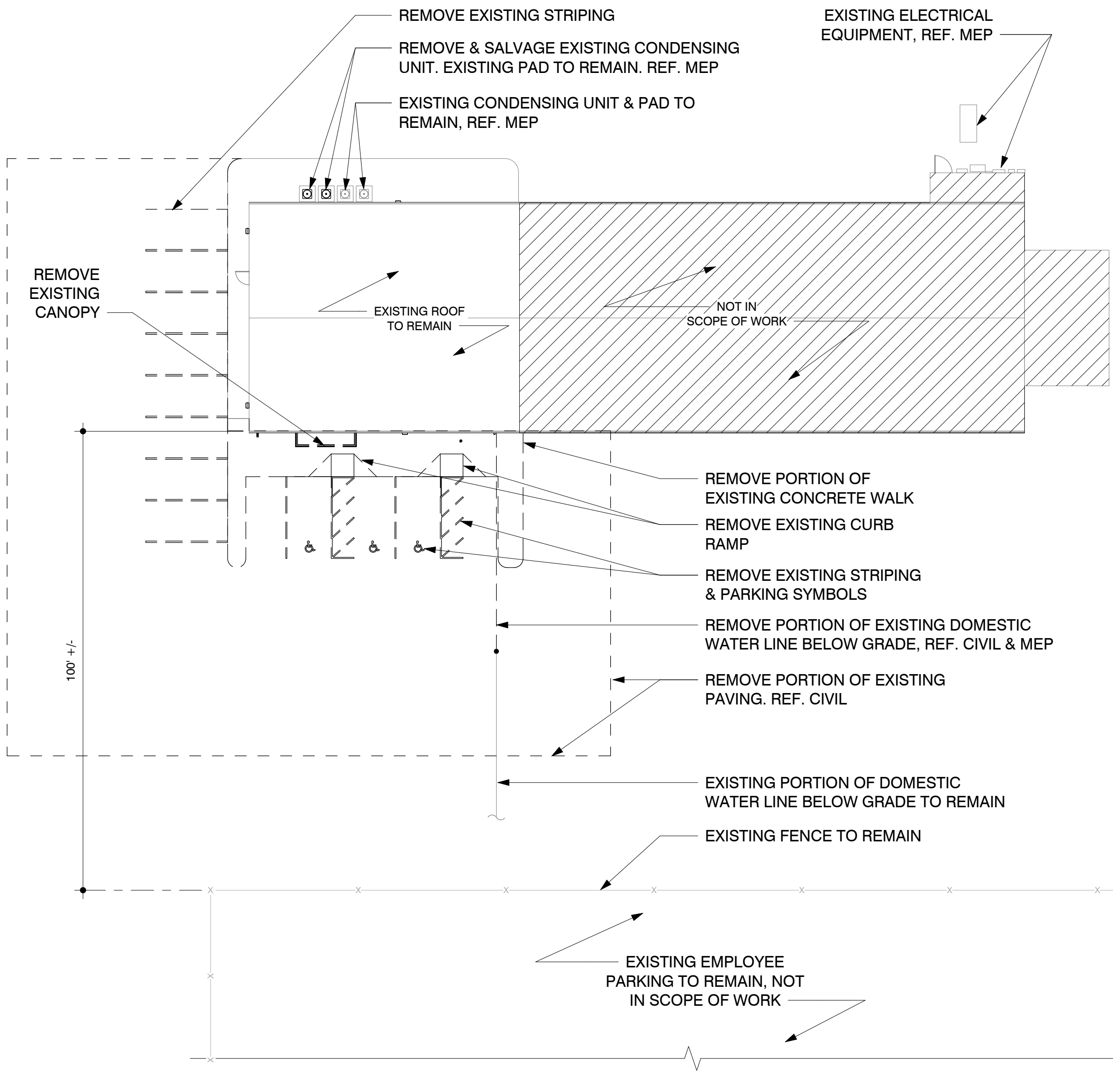
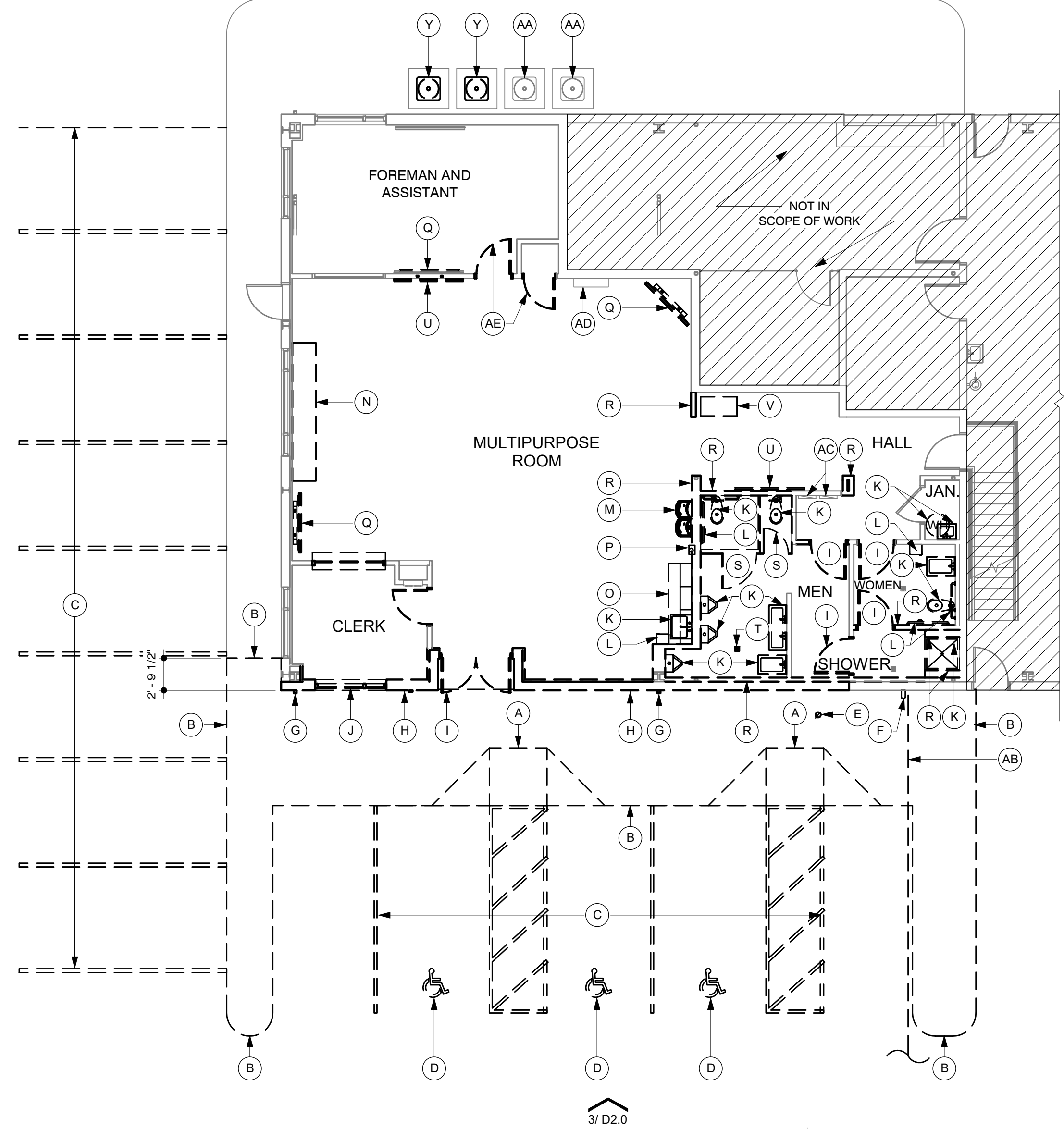
DEMOLITION	
	EXISTING CONSTRUCTION TO BE REMOVED
	EXISTING CONSTRUCTION TO REMAIN



**DEMOLITION NOTES**

- A. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND CORRELATE HIS OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- B. THE GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN FULL ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND LAWS OF THE CITY OF SAN ANTONIO.
- C. PRIOR TO STARTING WORK, MAKE SUCH EXPLORATIONS & PROPOSALS AS ARE REQUIRED TO ASCERTAIN SCOPE OF WORK & PROTECTION MEASURES WHICH MAY BE REQUIRED. NOTIFY ARCHITECT OF ANY CONCERNS.
- D. DEMOLITION DRAWINGS ARE SCHEMATIC & INDICATE GENERAL SCOPE OF DEMOLITION WORK ONLY.
- E. THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS AND THE CONTRACT DOCUMENTS AND SHALL NOT UNREASONABLY ENCLUMBER THE SITE WITH ANY MATERIALS OR EQUIPMENT.
- F. CAREFULLY PROTECT EXISTING CONSTRUCTION TO REMAIN DURING ALL PHASES OF DEMOLITION & NEW CONSTRUCTION ACTIVITIES. REPAIR OR REPLACE ANY EXISTING CONSTRUCTION TO REMAIN WHICH IS DAMAGED AS A RESULT OF DEMOLITIONS OR CONSTRUCTION ACTIVITIES.
- G. PROVIDE AND MAINTAIN BARRICADES, TEMPORARY ENCLOSURES, DUST BARRIERS, SIGNAGE, ETC. AS REQUIRED TO ENSURE PROTECTION FOR WORKMEN, ADJACENT CONSTRUCTION TO REMAIN AND OCCUPANTS OF THE BUILDING.
- H. CONTRACTOR SHALL NOT DISTURB THE DELIVERIES AND FUNCTIONS OF ADJACENT TENANTS DURING THE ENTIRE DURATION OF THE PROJECT.
- I. COORDINATE WITH OWNER/BUILDING MANAGEMENT FOR ALL STOCK PILE ITEMS TO BE SALVAGED, SUCH AS CEILING TILES, DOORS, FRAMES, HARDWARE, LIGHT FIXTURES AND BRUSHED ALUMINUM FINISH EXIT LIGHT FIXTURES.
- J. DISPOSE OF ALL ITEMS IN A LAWFUL MANNER.
- K. ALL AREAS THAT ABUT DEMOLITION WHICH ARE AFFECTED MUST BE REPAIRED AND REFURBISHED AS REQUIRED.
- L. COORDINATE MEP ITEMS WITH OWNER.

- GENERAL NOTES:**
- EXISTING PRE-ENGINEERED METAL BUILDING STRUCTURE & ASSOCIATED COMPONENTS TO REMAIN.
  - REMOVE ALL EXISTING FLOOR FINISHES & TREAT EXISTING SLAB TO PROVIDE A SMOOTH SURFACE.
  - REMOVE AND SALVAGE EXISTING BUNDS AT ALL EXISTING WINDOWS.



**DEMO FLOOR PLAN KEY NOTES**

A	REMOVE EXISTING CURB RAMP
B	REMOVE PORTION OF EXISTING CONCRETE WALK & CURB
C	REMOVE EXISTING STRIPING
D	REMOVE EXISTING PARKING SYMBOL
E	SEAL AND ABANDON EXISTING CLEANOUT, REF. MEP
F	REMOVE EXISTING PIPING
G	REMOVE EXISTING DOWNSPOUT
H	REMOVE PORTION OF EXISTING EXTERIOR WALL METAL PANEL & SUBSTRATE. EXISTING PRE-ENGINEERED BUILDING STRUCTURE TO REMAIN
I	REMOVE AND SALVAGE EXISTING DOOR & FRAME
J	REMOVE AND SALVAGE EXISTING WINDOW
K	REMOVE AND SALVAGE EXISTING PLUMBING FIXTURE/EQUIPMENT
L	REMOVE AND SALVAGE EXISTING TOILET ACCESSORY
M	REMOVE AND SALVAGE EXISTING DRINKING FOUNTAIN
N	REMOVE AND SALVAGE EXISTING COUNTERTOP AND SUPPORTS
O	REMOVE AND SALVAGE EXISTING COUNTERTOP AND CABINETS
P	REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER CABINET
Q	REMOVE AND SALVAGE EXISTING VIDEO DISPLAY & ASSOCIATED SUPPORTS
R	REMOVE PORTION OF EXISTING PARTITION
S	REMOVE AND SALVAGE EXISTING TOILET PARTITION & DOOR
T	SEAL AND ABANDON EXISTING FLOOR DRAIN
U	REMOVE AND SALVAGE EXISTING MARKER BOARD
V	REMOVE AND SALVAGE EXISTING FURNISHING
W	REMOVE AND SALVAGE EXISTING LIGHT FIXTURE
X	REMOVE EXISTING CANOPY
Y	REMOVE AND SALVAGE EXISTING CONDENSING UNIT. EXISTING PAD TO REMAIN. REF. MEP
Z	REMOVE AND SALVAGE EXISTING AIR HANDLING UNIT. REF. MEP
AA	EXISTING CONDENSING UNIT & PAD TO REMAIN, REF. MEP
AB	REMOVE PORTION OF EXISTING DOMESTIC WATER LINE BELOW GRADE, REF. CIVIL & MEP
AC	EXISTING ELECTRICAL PANELS TO REMAIN, REF. MEP
AD	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN
AE	REMOVE AND SALVAGE EXISTING DOOR, EXISTING DOOR FRAME TO REMAIN

**SLAY ARCHITECTURE**

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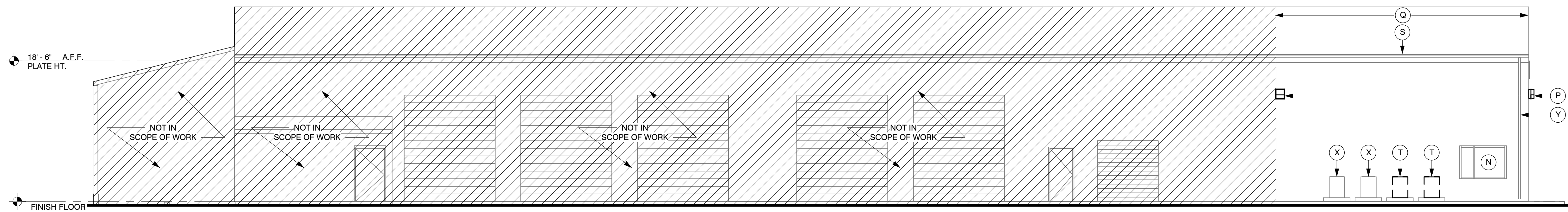
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**CONTRACT DOCUMENTS - PERMIT SET**  
**SOUTHTON SERVICE CENTER**  
 9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

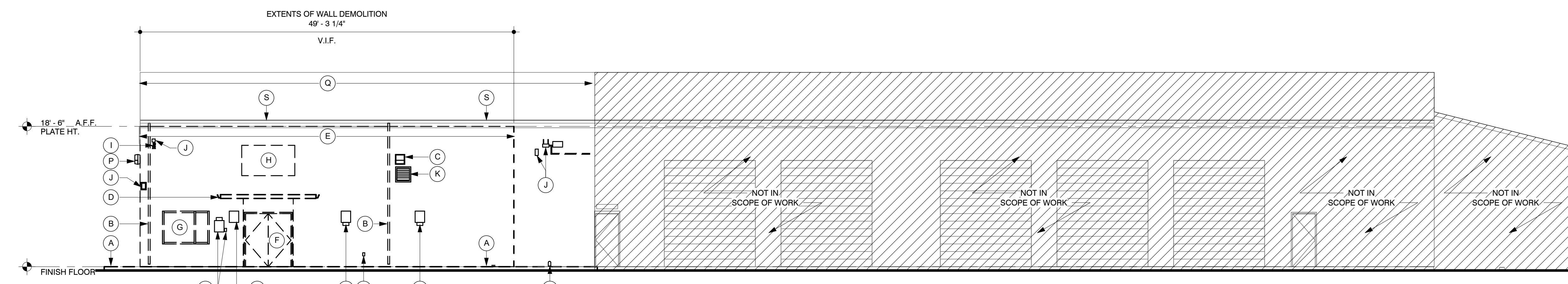
Project NO. 21014  
Date: 09/30/2021  
Revisions:

**D1.0**  
DEMO SITE PLAN, FLOOR PLAN, & MEZZANINE PLAN

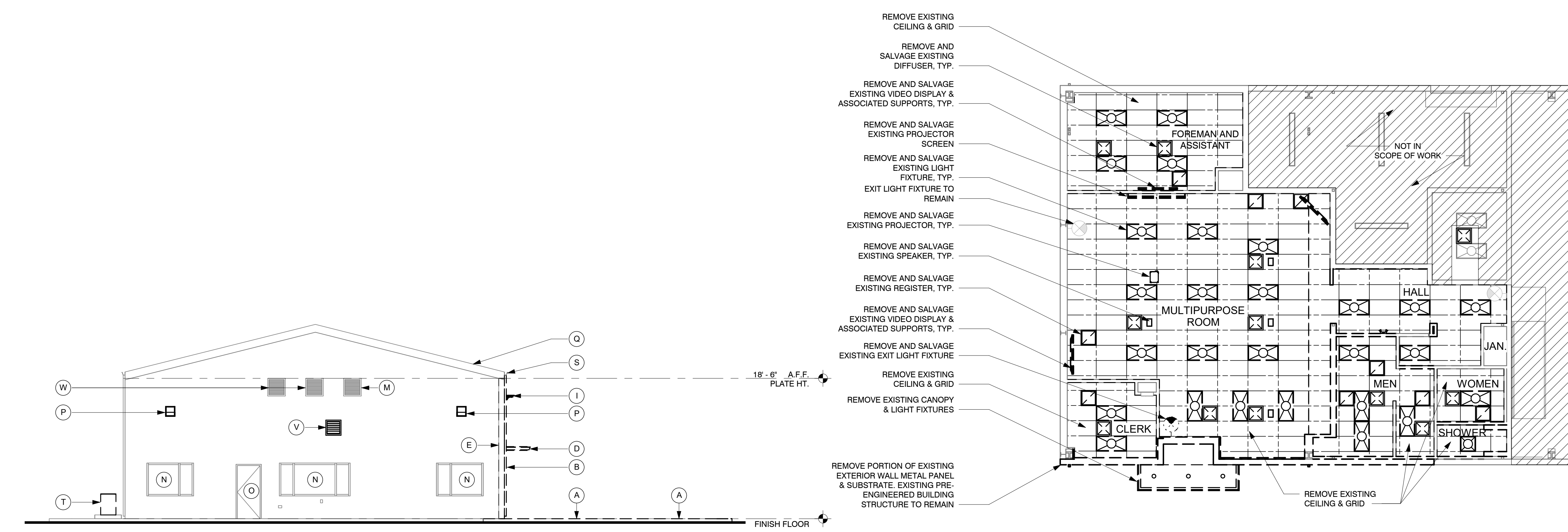
J:\21014\_Southton\DRAWING FILES\REV\T21014 - 9874 Southton Service Center.rvt  
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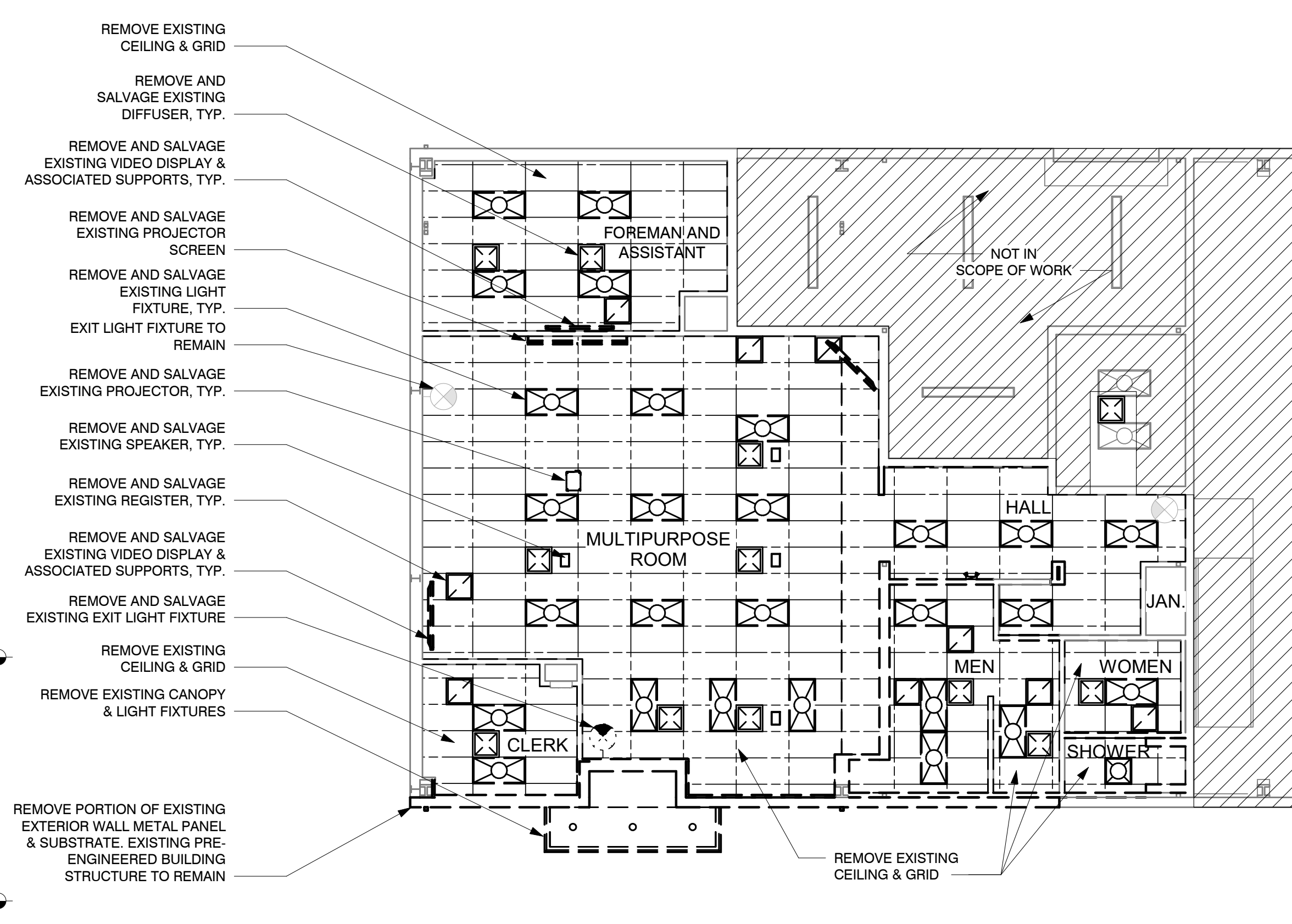
**4 EXTERIOR ELEVATION - DEMO**  
 SOUTH ELEVATION  
 1/8" = 1'-0"



**3 EXTERIOR ELEVATION - DEMO**  
 NORTH ELEVATION  
 1/8" = 1'-0"



**2 EXTERIOR ELEVATION - DEMO**  
 EAST ELEVATION  
 1/8" = 1'-0"



**1 REFLECTED CEILING PLAN - DEMO**  
 1/8" = 1'-0"

**DEMOLITION NOTES**

- A. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND CORRELATED HIS OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- B. THE GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN FULL ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND LAWS OF THE CITY OF SAN ANTONIO.
- C. PRIOR TO STARTING WORK, MAKE SUCH EXPLORATIONS & PROPOSES AS ARE REQUIRED TO ASCERTAIN SCOPE OF WORK & PROTECTION MEASURES WHICH MAY BE REQUIRED. NOTIFY ARCHITECT OF ANY CONCERNS.
- D. DEMOLITION DRAWINGS ARE SCHEMATIC & INDICATE GENERAL SCOPE OF DEMOLITIONS WORK ONLY.
- E. THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS AND THE CONTRACT DOCUMENTS AND SHALL NOT UNREASONABLY ENCUMBER THE SITE WITH ANY MATERIALS OR EQUIPMENT.
- F. CAREFULLY PROTECT EXISTING CONSTRUCTION TO REMAIN DURING ALL PHASES OF DEMOLITION & NEW CONSTRUCTION ACTIVITIES. REPAIR OR REPLACE ANY EXISTING CONSTRUCTION TO REMAIN WHICH IS DAMAGED AS A RESULT OF DEMOLITIONS OR CONSTRUCTION ACTIVITIES.
- G. PROVIDE AND MAINTAIN BARRICADES, TEMPORARY ENCLOSURES, DUST BARRIERS, SIGNAGE, ETC. AS REQUIRED TO INSURE PROTECTION FOR WORKMEN, ADJACENT CONSTRUCTION TO REMAIN AND OCCUPANTS OF THE BUILDING.
- H. CONTRACTOR SHALL NOT DISTURB THE DELIVERIES AND FUNCTIONS OF ADJACENT TENANTS OR MALL OPERATION DURING THE ENTIRE DURATION OF THE PROJECT.
- I. COORDINATE WITH BUILDING MANAGEMENT FOR ALL STOCK PILE ITEMS TO BE SALVAGED, SUCH AS CEILING TILES, DOORS, FRAMES, HARDWARE, LIGHT FIXTURES AND BRUSHED ALUMINUM FINISH EXIT LIGHT FIXTURES.
- J. DISPOSE OF ALL ITEMS IN A LAWFUL MANNER.
- K. ALL AREAS THAT ABUT DEMOLITION WHICH ARE AFFECTED MUST BE REPAIRED AND REFURBISHED AS REQUIRED.
- L. COORDINATE MEP ITEMS WITH LANDLORD & TENANT.

DEMOLITION	
	EXISTING CONSTRUCTION TO BE REMOVED
	EXISTING CONSTRUCTION TO REMAIN

DEMO EXTERIOR ELEVATION KEY NOTES	
(A)	REMOVE PORTION OF EXISTING CONCRETE WALK & CURB
(B)	REMOVE EXISTING DOWNSPOUT
(C)	REMOVE AND SALVAGE EXISTING LIGHT FIXTURE
(D)	REMOVE EXISTING CANOPY
(E)	REMOVE PORTION OF EXISTING EXTERIOR WALL METAL PANEL & SUBSTRATE. EXISTING PRE-ENGINEERED BUILDING STRUCTURE TO REMAIN
(F)	REMOVE AND SALVAGE EXISTING DOOR & FRAME
(G)	REMOVE AND SALVAGE EXISTING WINDOW
(H)	REMOVE AND SALVAGE EXISTING BEXAR COUNTY PUBLIC WORKS SIGN FOR RE-INSTALLATION
(I)	REMOVE AND SALVAGE EXISTING VIDEO SURVEILLANCE CAMERA
(J)	REMOVE AND SALVAGE EXISTING EQUIPMENT
(K)	REMOVE AND SALVAGE EXISTING VENT
(L)	REMOVE EXISTING PIPE
(M)	EXISTING VENT TO REMAIN
(N)	EXISTING WINDOW TO REMAIN
(O)	EXISTING DOOR & FRAME TO REMAIN
(P)	REMOVE AND SALVAGE EXISTING LIGHT FIXTURE
(Q)	EXISTING ROOF TO REMAIN
(R)	REMOVE AND SALVAGE EXISTING KNOX BOX & ASSOCIATED SIGNAGE
(S)	EXISTING GUTTER TO REMAIN
(T)	REMOVE AND SALVAGE EXISTING CONDENSING UNIT. EXISTING PAD TO REMAIN. REF. MEP
(U)	REMOVE AND SALVAGE EXISTING ACCESSIBLE PARKING SIGNAGE FOR RE-INSTALLATION
(V)	REMOVE AND SALVAGE EXISTING LOUVER, INFILL WALL TO MATCH EXISTING. REF. MEP
(W)	CAP EXISTING VENT, REF. MEP
(X)	EXISTING CONDENSING UNIT AND PAD TO REMAIN, REF. MEP
(Y)	EXISTING DOWNSPOUT TO REMAIN

**SLAY ARCHITECTURE**

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09/30/2021

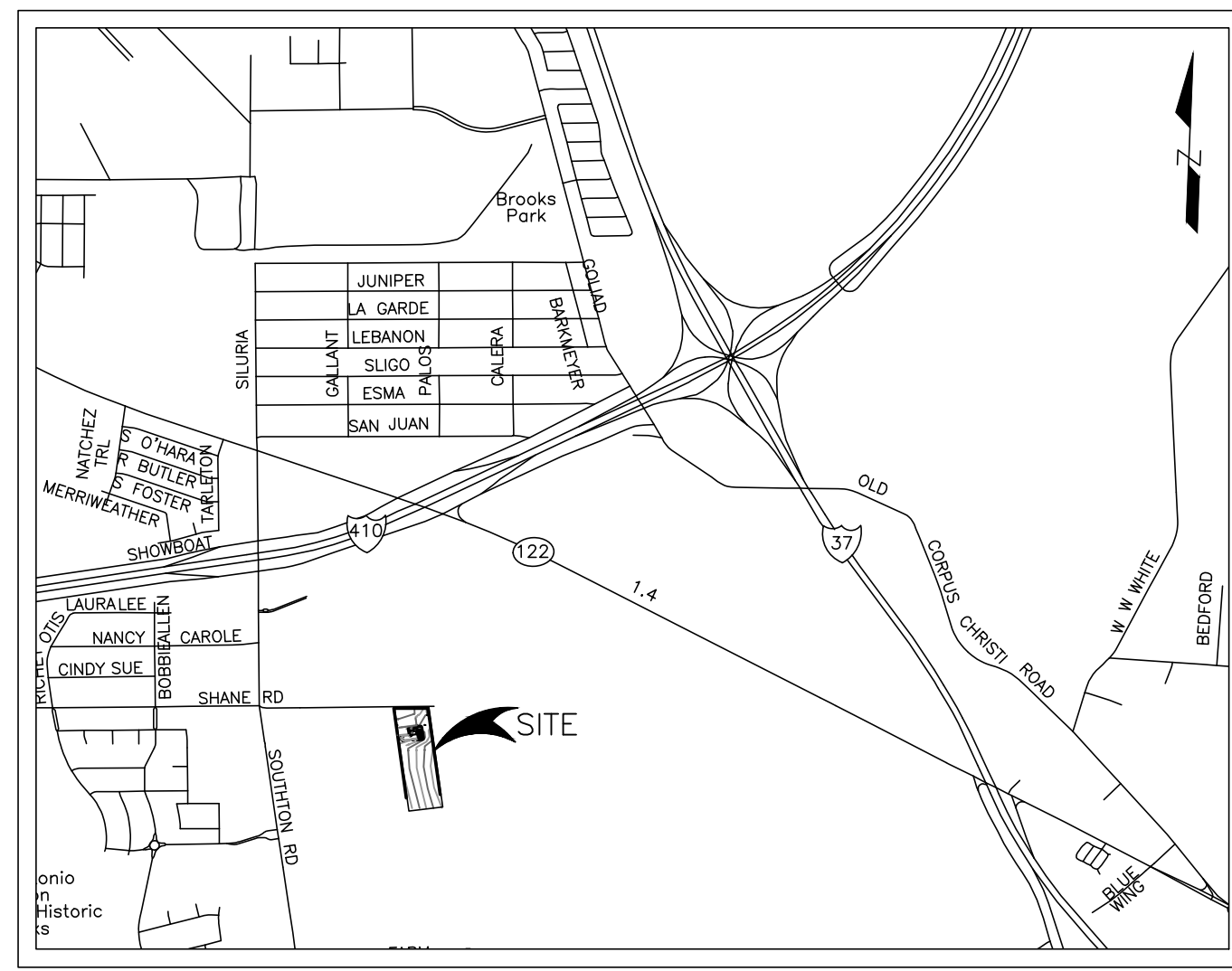
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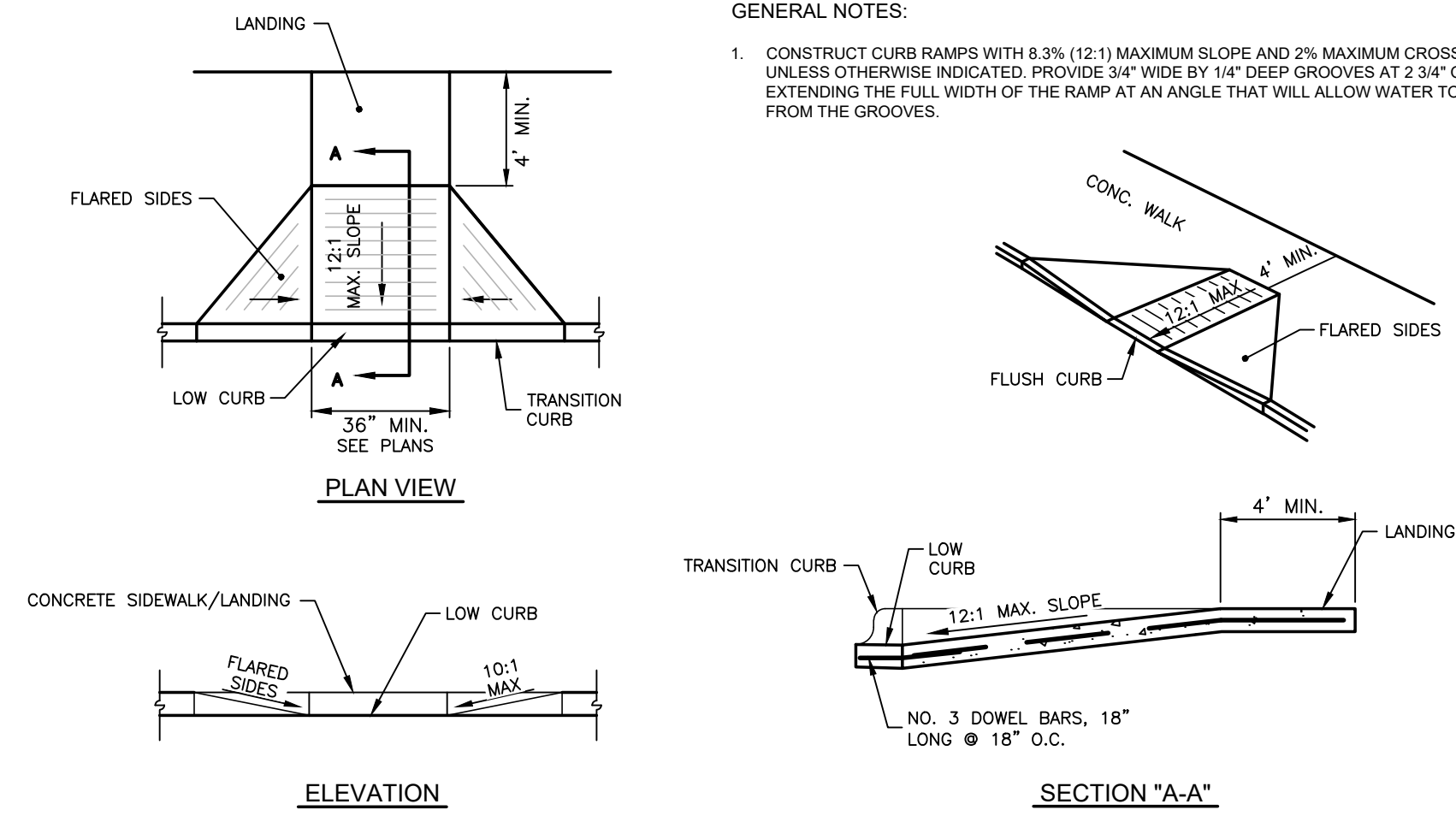
**D2.0**  
 DEMO RCP, & EXTERIOR ELEVATIONS

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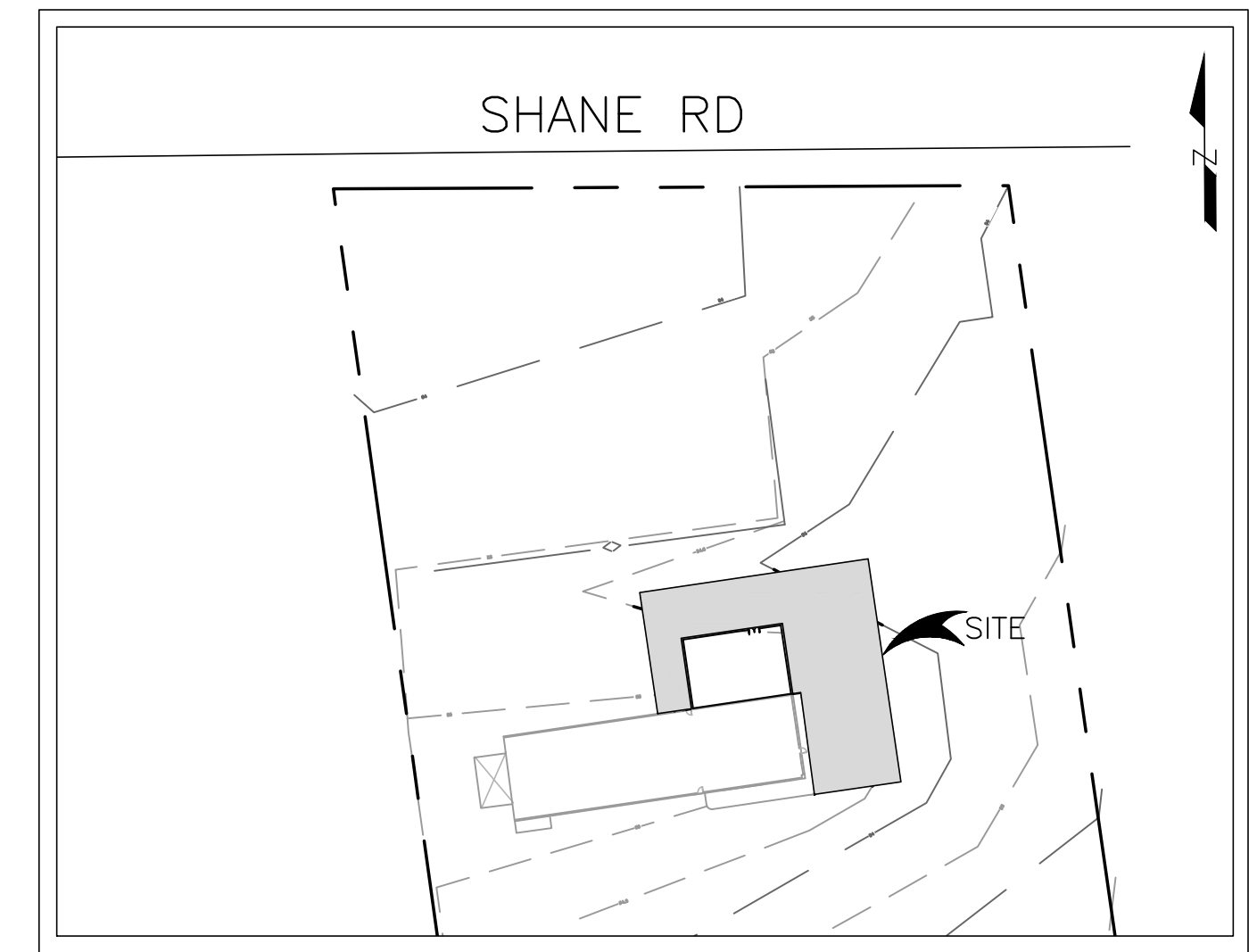


LOCATION MAP  
SCALE: 1" = 2000'

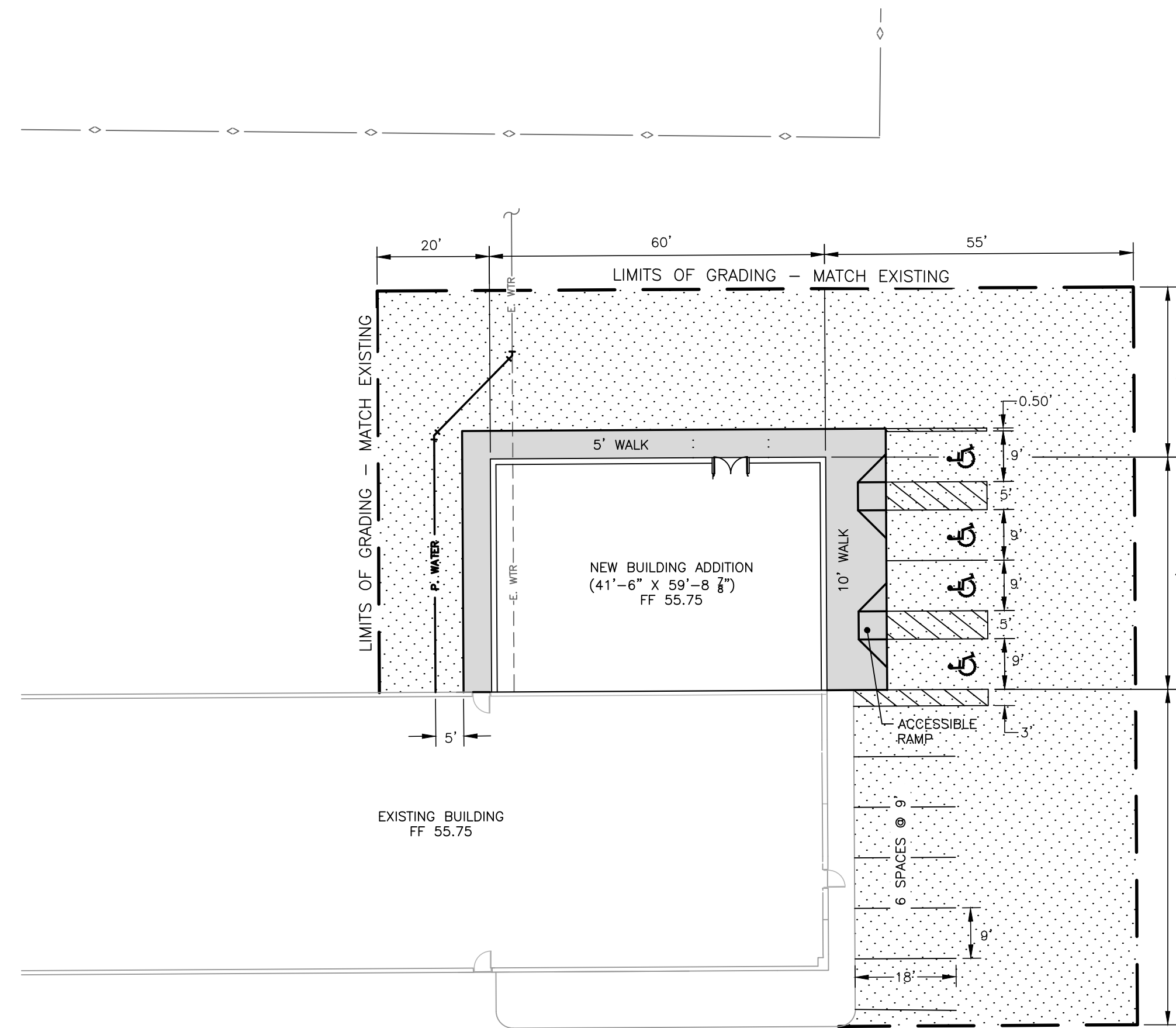


ACCESSIBLE RAMP  
NOT TO SCALE

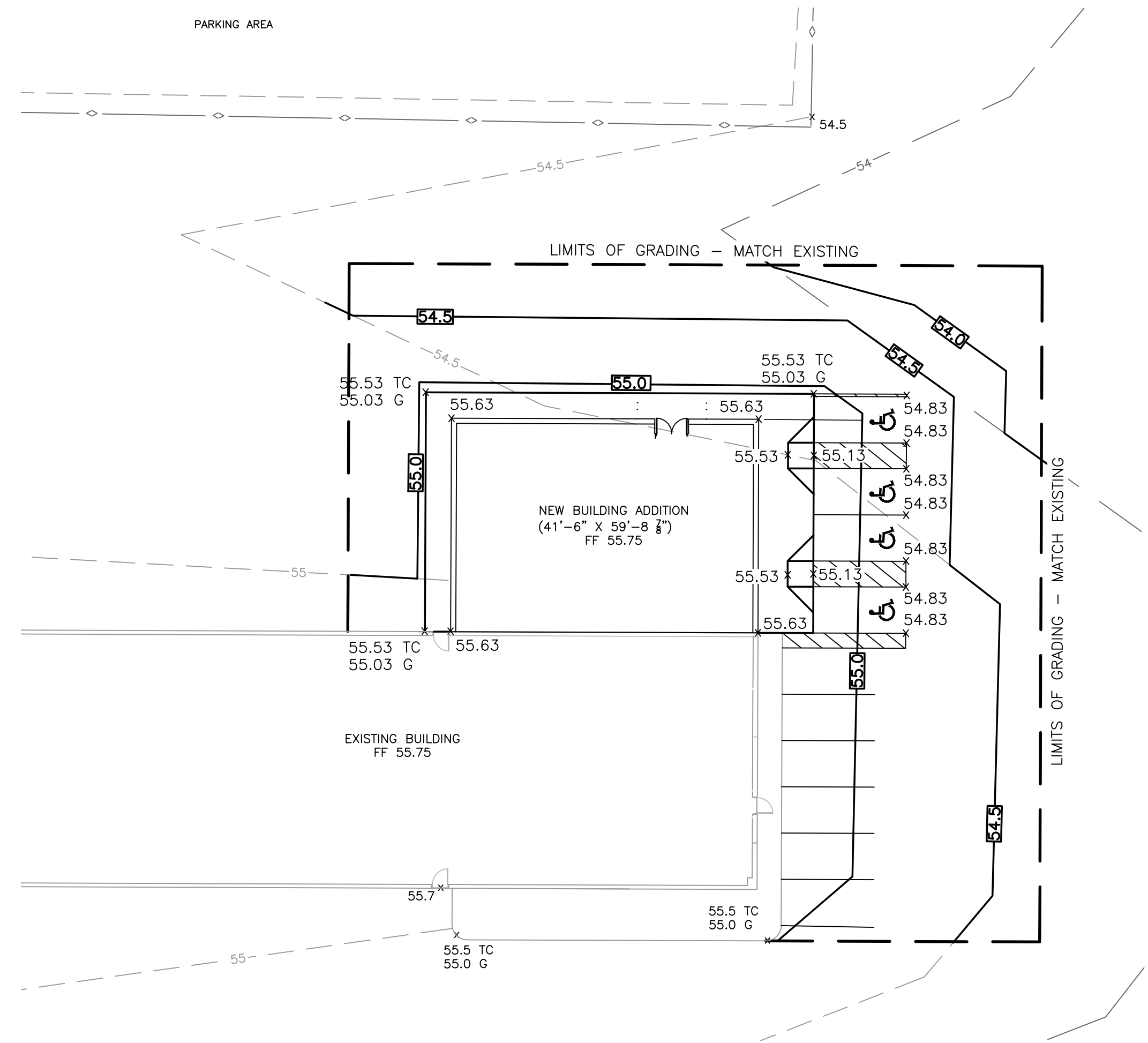
GENERAL NOTES:  
1. CONSTRUCT CURB RAMP WITH 8.3% (12:1) MAXIMUM SLOPE AND 2% MAXIMUM CROSS SLOPE UNLESS OTHERWISE INDICATED. PROVIDE 3/4" WIDE BY 1/4" DEEP GROOVES AT 2 3/4" O.C. EXTENDING THE FULL WIDTH OF THE RAMP AT AN ANGLE THAT WILL ALLOW WATER TO DRAIN FROM THE GROOVES.



INDEX MAP  
SCALE: 1" = 100'



DIMENSIONAL  
SCALE: 1" = 20'



GRADING  
SCALE: 1" = 20'

LEGEND

---	50	---	EXISTING MAJOR CONTOUR
---	50.5	---	EXISTING MINOR CONTOUR
-o-o-		-o-o-	EXISTING CHAINLINK FENCE
---	50	---	PROPOSED CONTOUR
- - -	E. WTR	- - -	ABANDONED WATERLINE IN PLACE
---	E. WTR	---	EXISTING WATERLINE
---	P. WATER	---	PROPOSED WATERLINE
---		---	PROPOSED CONCRETE
---		---	PROPOSED ASPHALT

NOTE:  
WATER SERVICE LINE LOCATED BY OTHERS; CONTRACTOR SHALL FIELD VERIFY EXISTING SIZE & LOCATION.

**SLAY ENGINEERING CO., INC.**  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL - SURVEYING - CONSULTING  
123 ALGELT AVE  
SAN ANTONIO, TEXAS 78201  
TELEPHONE (210) 734-4388  
TBPB FIRM REGISTRATION NO. F1901

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CONTRACT DOCUMENTS SET  
**SOUTHTON SERVICE CENTER**  
9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

Project NO.: 21014  
Date: 09/30/2021  
Revisions:

EXISTING INFORMATION ON THIS DRAWING WAS OBTAINED FROM A DRAWING PREPARED BY:  
R.W. OPTIZ & ASSOCIATES CONSULTING CIVIL ENGINEERS  
1830 SHADOW PARK  
San Antonio, Texas 78232  
ROBERT W. OPTIZ P.E. #25654

**C1.0**  
SITE PLAN



3. CONCRETE CONSTRUCTION CONT.:				
L. REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	ACI 318-CH. 5.11, 5.13	*QUALIFICATIONS BASED ON ASTM E329
M. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS, ADHESIVE ANCHORS, ECT.).	CONTINUOUS	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE
<b>4. STEEL CONSTRUCTION</b>				
A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	PERIODIC	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	PERIODIC	2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	APPLICABLE ASTM SPECIFICATIONS; AISC 335, SECTION A3.4; AISC LRFD, SECTION A3.3	
B. HIGH STRENGTH BOLTING.	PERIODIC	1. BEARING-TYPE CONNECTIONS.	IBC 1704.3.3; STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	CONTINUOUS OR PERIODIC	2. SLIP-CRITICAL CONNECTIONS.	AISC LRFD SECTION M2.5	
C. MATERIAL VERIFICATION OF STRUCTURAL STEEL.	PERIODIC	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2; STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	PERIODIC	2. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	ASTM A 6 OR ASTM A 568	
D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS.	PERIODIC	1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES	CWI/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
	PERIODIC	2. MANUFACTURERS' CERTIFIED OF COMPLIANCE REQUIRED.	AISC, ASD, SECTION A3.6; AISC LRFD, SECTION A3.5	
E. WELDING OF STRUCTURAL STEEL.	CONTINUOUS	1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS.	IBC 1705.2.2.1; STRUCTURAL STEEL GENERAL NOTES	CWI AND ASNT
	CONTINUOUS	2. MULTIPASS FILLET WELDS.	AWS D1.1	CWI AND ASNT OR LICENSED ENGINEER
	CONTINUOUS	3. SINGLE-PASS FILLET WELDS > 5/16"		
	PERIODIC	4. SINGLE-PASS FILLET WELDS ≤ 5/16"		
	PERIODIC	5. FLOOR AND DECK WELDS.	AWS D1.3	
F. WELDING OF REINFORCING STEEL.	N/A	1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A706.	IBC 1705.2.2.1.2	CWI/ASSOCIATE/TECHNICAL TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
	N/A	2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.		
	N/A	3. SHEAR REINFORCEMENT.		
	N/A	4. OTHER REINFORCING STEEL.		

DEFERRED SUBMITTALS			
BUILDING CONSTRUCTION	YES	NO	DESCRIPTION
STEEL	X		PEMB SHOP DRAWINGS
CONCRETE		X	-
WOOD		X	-

2B. PIER FOUNDATIONS				
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT.	N/A	1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.8 GEOTECHNICAL REPORT;	GRADUATE ENGINEER *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	N/A	1. PROVIDE RECORD OF EACH PIER INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PIER.	IBC 1705.8 GEOTECHNICAL REPORT;	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077
<b>3. CONCRETE CONSTRUCTION</b>				
A. REINFORCING STEEL	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR, AND PLACEMENT AT THE FOLLOWING FREQUENCY: COLUMNS: 10% BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20%	IBC 1704.4 ACI 318, CH. 3.5, 7.1-7.7; CONCRETE AND REINFORCING GENERAL NOTES.	*QUALIFICATIONS BASED ON ASTM E329
B. REINFORCING STEEL WELDING	N/A	NO FIELD WELDING PERMITTED.	AWS D1.4 ACI 318, 3.5.2	CWI OR ASSOCIATE CWI
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE.
E. VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR.	ACI 318-CH. 4, 5.2-5.4	*QUALIFICATIONS BASED ON ASTM C1077
F. SAMPLING OF FRESH CONCRETE.	CONTINUOUS EACH CONCRETE POUR.	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C-39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 50 cu. yds. SO AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE THE POINT OF DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 7-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORTS OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE RDP/IRC (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR.	ACI 318-CH. 5.6, 5.8	*QUALIFICATIONS BASED ON ASTM C1077
G. PLACEMENT OF CONCRETE & SHOTCRETE.	CONTINUOUS		ACI 318-CH. 5.9, 5.10	*QUALIFICATIONS BASED ON ASTM C1077
H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 5.11, 5.13	*QUALIFICATIONS BASED ON ASTM C1077
I. PRE-STRESSED CONCRETE	N/A	1. APPLICATION OF PRESTRESSING FORCE. 2. GROUTING OF BOUNDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS.		*QUALIFICATIONS BASED ON ASTM C1077
J. ERECTION OF PRECAST CONCRETE MEMBERS.	N/A			TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
K. POST-TENSIONED CONCRETE.	N/A	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.		*QUALIFICATIONS BASED ON ASTM E329
	N/A	2. THE POST-TENSIONING ENGINEER, OR A MEMBER OF HIS STAFF, SHALL INSPECT THE TENDON PLACEMENT AND CHAIRING TO INSURE COMPLIANCE WITH THE INTENT OF THE DESIGN.		
	N/A	3. CONTINUOUS INSPECTION IS REQUIRED DURING ALL STRESSING ACTIVITIES.		
	N/A	4. RECORDS OF ALL JACKING FORCES AND ELONGATIONS SHALL BE MADE IN ACCORDANCE WITH THE PTI FIELD MANUAL AND RECORDS SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT AND ENGINEER.		

**NOTES:**

1 THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY REQUIRED BY IBC 2018, SECTION 1709, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT. (I.E. C141).

2 DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS - REF. IBC SECTION 1702

ADSC - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING  
ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING  
ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS  
AWS - AMERICAN WELDING SOCIETY  
CWI - CERTIFIED WELDING INSPECTOR  
CRSI - CONCRETE REINFORCING STEEL INSTITUTE  
PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE  
PTI - POST-TENSIONING INSTITUTE  
N/A - NOT APPLICABLE

\*TESTING AND INSPECTION DIRECTED BY ASTM E329 GUIDELINES.

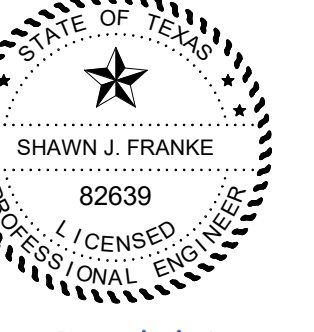
Pursuant to IBC Chapter 17 (1704.2.1) provide the following Special Inspector Qualifications to the RDP/IRC prior to start of inspections;

1. Testing Laboratory Qualifications meeting ASTM0329 and accreditation by AASHTO and/or A2LA, and CCRL of the National Bureau of Standards.
2. Special Inspector's name and proof of meeting the qualification requirements set forth in
  - a. ASTM C1077 for concrete,
  - b. ASTM D3740 for soils,
  - c. ASTM C1093 for masonry.
  - d. ASTM D-2922 and D-3017 for Density control of compaction

IBC 1704.2.1 "written documentation demonstrating the competence and relevant experience or training of special inspectors who will perform special inspections and tests during construction. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities." These qualifications are in addition to qualifications specified in other sections of the IBC.

### TESTING & INSPECTION REQUIREMENTS (INCLUDING SPECIAL INSPECTIONS)

REQUIRED INSPECTION VERIFICATION, OR TEST	VERIFICATION MONITORING FREQUENCY	TYPE AND/OR FREQUENCY OF TESTING	IBC SECTION & REFERENCE CRITERIA	INSPECTOR QUALIFICATIONS
<b>1. SOILS (SLAB ON GRADE)</b>				
		SITE PREPARATION	IBC 1705.6	
A. SUB-GRADE 1. VISUAL OBSERVATION	PERIODIC	AT THE CONTRACTORS EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES.	GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR
2. PROOFROLLING OBSERVATIONS	CONTINUOUS	PROOFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF PROOFROLLING EQUIPMENT AND PROCEDURES.	GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
3. MOISTURE CONDITIONING & RECOMPACTION	CONTINUOUS OR PERIODIC	PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
B. CHEMICAL INJECTION	N/A	QUALITY CONTROLLED TESTING AND EVALUATION PRIOR AND SUBSEQUENT TO INJECTION SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE INJECTION PROCESS TO VERIFY AREA COVERAGE, INJECTION DEPTH AND TO REVIEW AND MONITOR THE SWELL TEST RESULTS.	GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
C. DURING FILL PLACEMENT	CONTINUOUS OR PERIODIC	VISUAL OBSERVATIONS: DURING PLACEMENT AND COMPACTION OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLY WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
D. EVALUATION OF IN-PLACE DENSITY OF FILL	CONTINUOUS OR PERIODIC	PROVIDE (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	*QUALIFICATIONS BASED ON ASTM D3740
E. TRENCH BACKFILLING:	CONTINUOUS OR PERIODIC	TRENCH BACKFILLING. TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECHNICAL ENGINEER.		
<b>2A. PILE FOUNDATIONS</b>				
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PILE.	N/A	1. VERIFY THE BEARING STRATUM IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.7 GEOTECHNICAL REPORT;	GRADUATE ENGINEER *QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	N/A	1. PROVIDE RECORD OF EACH PILE INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE.	IBC 1705.7 GEOTECHNICAL REPORT;	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077



Shawn Franke



7. WOOD CONSTRUCTION		IBC 1704.6	
<b>A. PREFABRICATED STRUCTURAL ELEMENTS &amp; ASSEMBLIES</b>	N/A	INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE.	IBC 1705.5 TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER
<b>B. SITE BUILT ASSEMBLIES</b>	N/A	SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1	IBC 1705.5 LICENSED ENGINEER OR HIS/HER REPRESENTATIVE.
<b>C. DIAPHRAGMS</b>	N/A	HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN.	IBC 1705.5.1
<b>D. TRUSS BRACING</b>	N/A	CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS.	
8. LIGHT GAGE FRAME CONSTRUCTION		IBC 1704.13	
<b>A. PREFABRICATED STRUCTURAL ELEMENTS &amp; ASSEMBLIES</b>	N/A	INSPECT STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IS RESPONSIBLE CHARGE.	IBC 1705.5.1 TECHNICAL REPRESENTATIVE UNDER DIRECTION OF LICENSED ENGINEER
<b>B. SITE BUILT ASSEMBLIES</b>	N/A	SITE BUILT ASSEMBLIES SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1	IBC 1705.5.1 LICENSED ENGINEER OR HIS/HER REPRESENTATIVE.
<b>C. DIAPHRAGMS</b>	N/A	HIGH LOAD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1704.1, AND SHEATHING CHECKED FOR PROPER GRADE, THICKNESS, SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL/STAPLE DIAMETER AND LENGTH, AND FASTENER PATTERN.	IBC 1705.10.3
<b>D. TRUSS BRACING</b>	N/A	CHECK ALL REQUIRED PERMANENT AND LATERAL BRACING HAS BEEN INSTALLED ACCORDING TO STRUCTURAL DRAWINGS AND FABRICATOR DESIGN/SHOP DRAWINGS.	

LEVEL 1 INSPECTION CONT.:				
<b>C. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	N/A	1. GROUT SPACE IS CLEAN.		
	N/A	2. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.		
	N/A	3. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.		
	N/A	4. CONSTRUCTION OF MORTAR JOINTS.		
<b>D. GROUT PLACEMENT</b>	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
	N/A	2. GROUTING OF PRESTRESSING BONDED TENDONS.		
<b>E. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.</b>	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
<b>F. COMPLIANCE WITH REQUIRED INSPECTION PROVISION OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.</b>	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
<b>G. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.</b>	N/A	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093
<b>H. POST INSTALLED REINFORCING &amp; ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).</b>	N/A	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, MASONRY TYPE AND COMPRESSION STRENGTH, PRE DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE
LEVEL 2 INSPECTION:				
		ENGINEERED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.3	QUALIFICATIONS BASED ON C1093
<b>A. FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	N/A	1. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS.		
	N/A	2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS.		
	N/A	3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.		
	N/A	4. GROUT SPACE PRIOR TO GROUTING.		
	N/A	5. PLACEMENT OF GROUT.		
	N/A	6. PLACEMENT OF PRESTRESSING GROUT.		
<b>B. THE INSPECTION PROGRAM SHALL VERIFY:</b>	N/A	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		
	N/A	2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.		
	N/A	3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.		
	N/A	4. WELDING OF REINFORCEMENT.		
	N/A	PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F).		
	N/A	6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		
<b>C. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.</b>	N/A	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
<b>D. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.</b>	N/A			
<b>E. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.</b>	N/A	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093

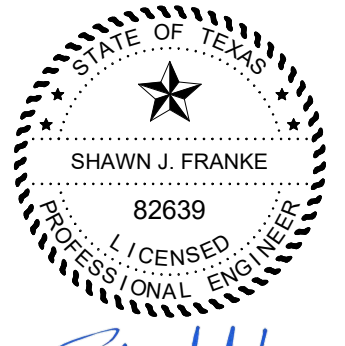
3. STEEL CONSTRUCTION CONT.:				
<b>G. STEEL FRAME JOINT DETAILS; COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:</b>	PERIODIC	1. DETAILS SUCH AS BRACING & STIFFENING.	IBC 1705.2.1; STRUCTURAL DRAWINGS	PROJECT OF COMPLEX DETAILS - ASSOCIATE CWI PROJECTS OF RELATIVELY SIMPLE DETAILS - TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
	PERIODIC	2. MEMBER LOCATIONS.		
	PERIODIC	3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		
<b>H. POST INSTALLED REINFORCING &amp; ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).</b>	CONTINUOUS	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE OR MASONRY TYPE AND COMPRESSION STRENGTH, PRE DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE OR MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	*QUALIFICATIONS BASED ON ASTM E329 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE
5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL				
<b>FABRICATION &amp; IMPLEMENTATION PROCEDURES</b>	PERIODIC	FABRICATION AND IMPLEMENTATION PROCEDURES. VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2.1	CWI, ASNT LICENSED ENGINEER
6. MASONRY CONSTRUCTION				
<b>EMPIRICALLY DESIGNED MASONRY, GLASS UNIT MASONRY, AND MASONRY VENEER IN NON-ESSENTIAL FACILITIES.</b>	SPECIAL INSPECTIONS NOT REQUIRED PER 1704.5.1		IBC 1705.4	
<b>LEVEL 1 INSPECTION:</b>		ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPIRICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1705.4	QUALIFICATIONS BASED ON ASTM C1093
<b>A. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	N/A	1. PROPORTIONS OF SITE-PREPARED MORTAR.		
	N/A	2. CONSTRUCTION OF MORTAR JOINTS.		
	N/A	3. LOCATION OF REINFORCEMENT AND CONNECTORS.		
	N/A	4. PRESTRESSING TECHNIQUE		
	N/A	5. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		
<b>B. THE INSPECTION PROGRAM SHALL VERIFY:</b>	N/A	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		
	N/A	2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.		
	N/A	3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.		
	N/A	4. WELDING OF REINFORCING BARS.		
	N/A	5. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F).		
	N/A	6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		

**NOTES:**

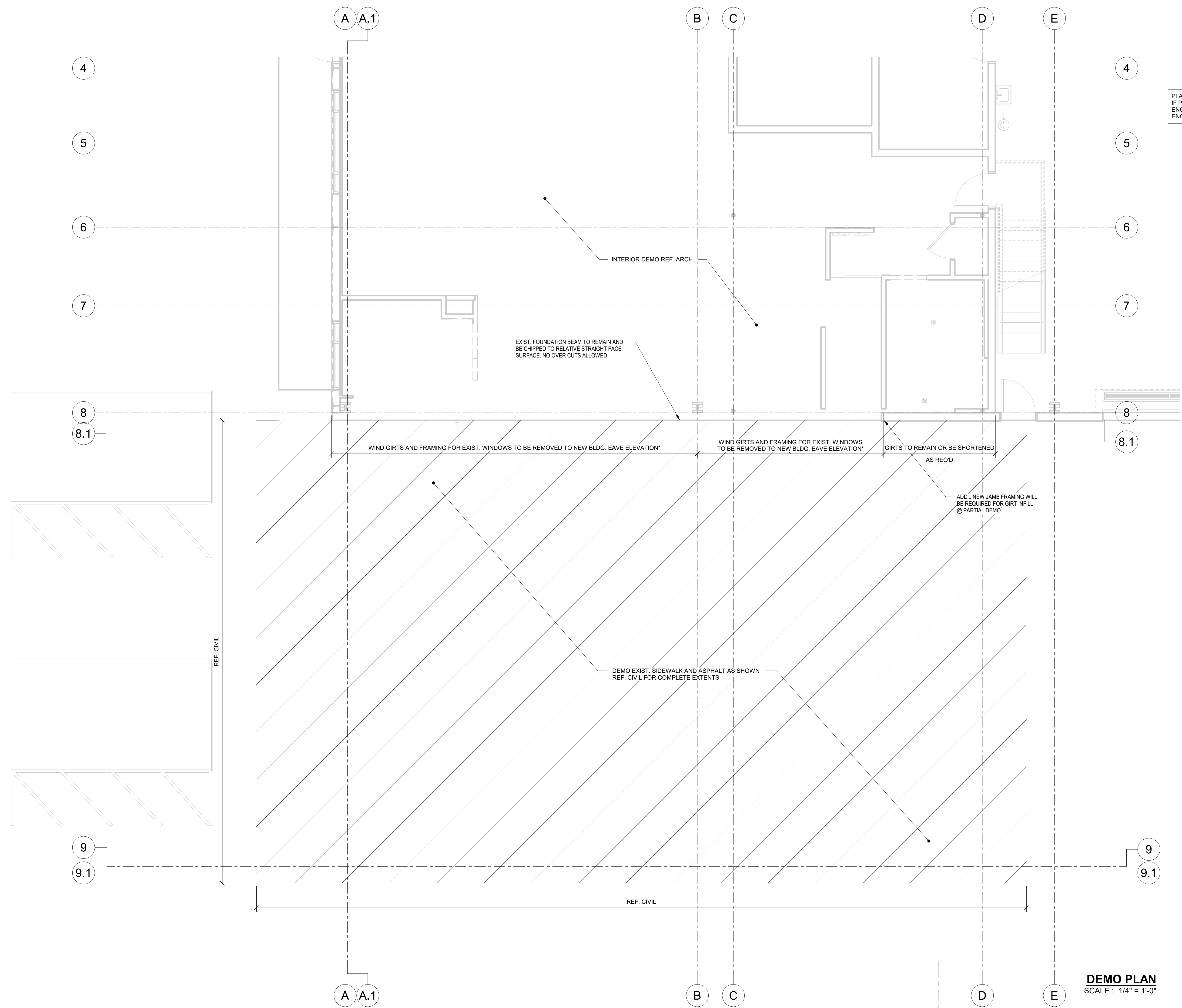
1 THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY BE REQUIRED BY IBC 2018, SECTION 1708, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).

2 DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS - REF. IBC SECTION 1702  
ADSC - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING  
ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS  
AWS - AMERICAN WELDING SOCIETY  
CWI - CERTIFIED WELDING INSPECTOR  
CRSI - CONCRETE REINFORCING STEEL INSTITUTE  
PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE  
PTI - POST-TENSIONING INSTITUTE  
NA - NOT APPLICABLE

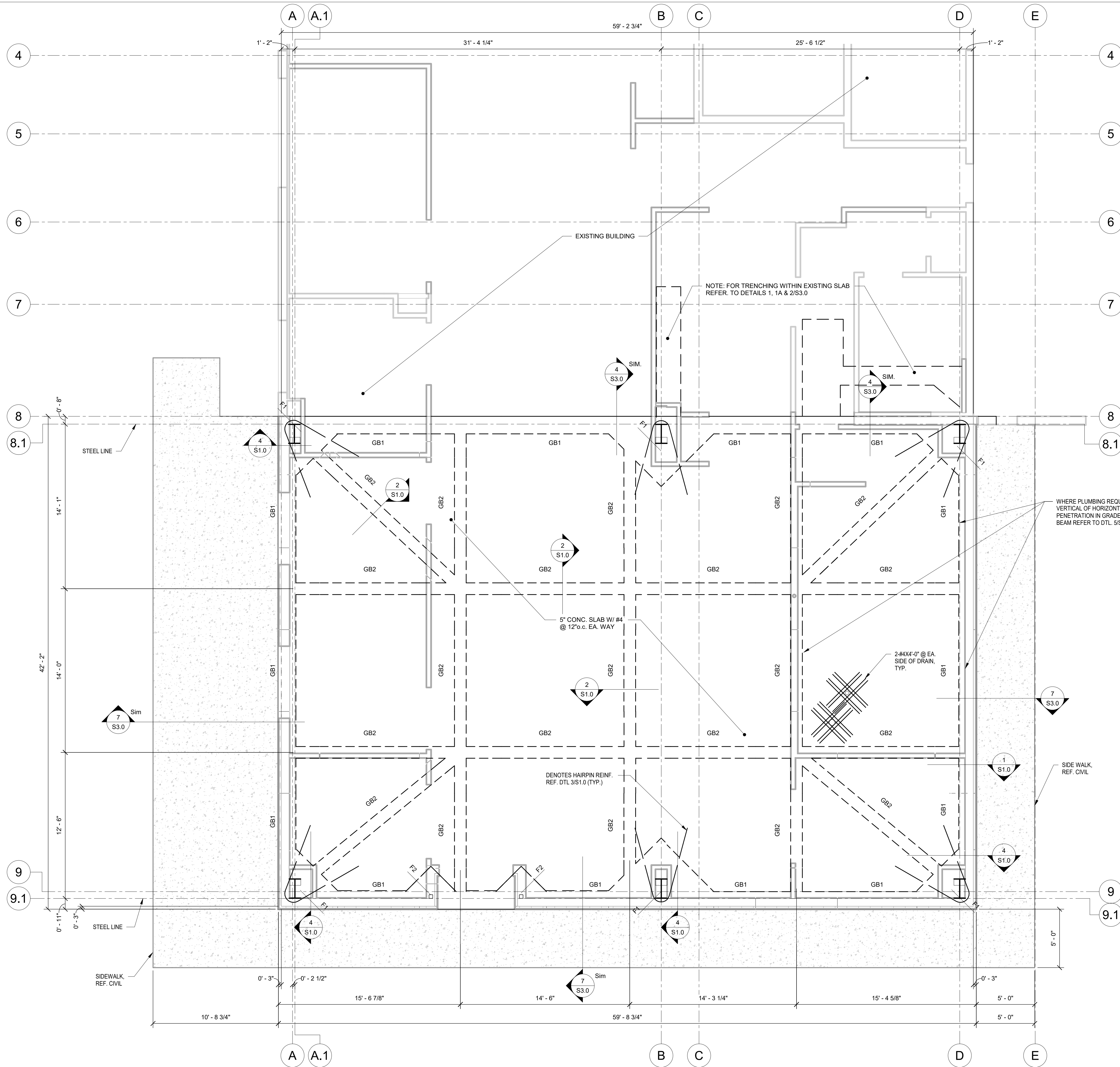
\*TESTING AND INSPECTION DIRECTED BY ASTM E329 GUIDELINES.



*Shawn Franke*

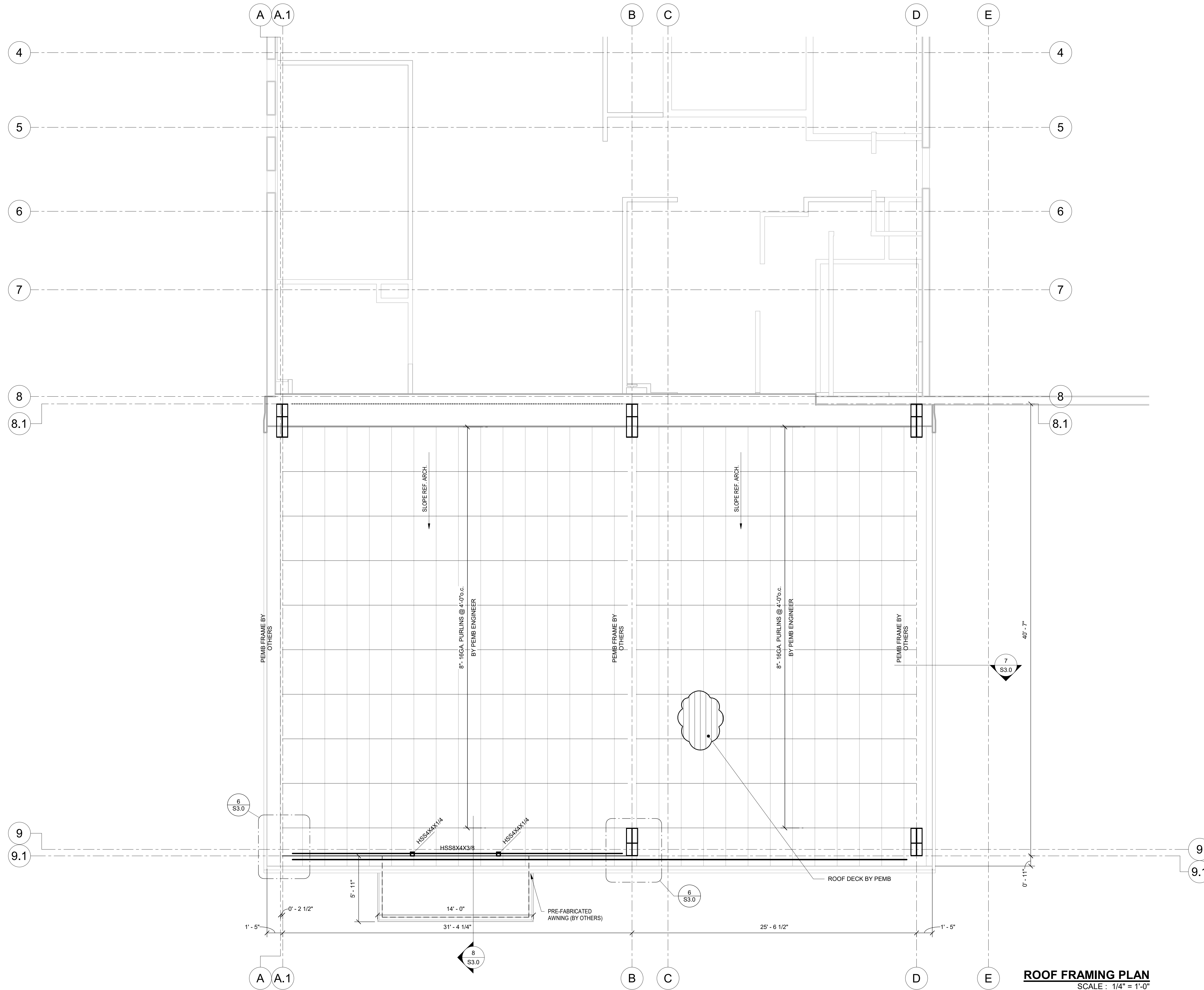


PLAN NOTE:  
 IF PEMB CROSS BRACING IS  
 ENCOUNTERED NOTIFY EOR AND PEMB  
 ENGINEER FOR EVALUATION

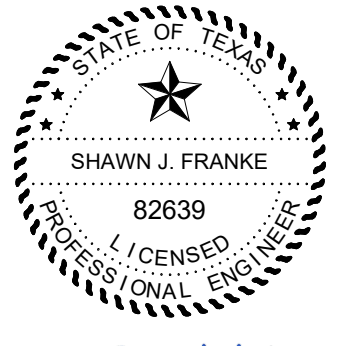


**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

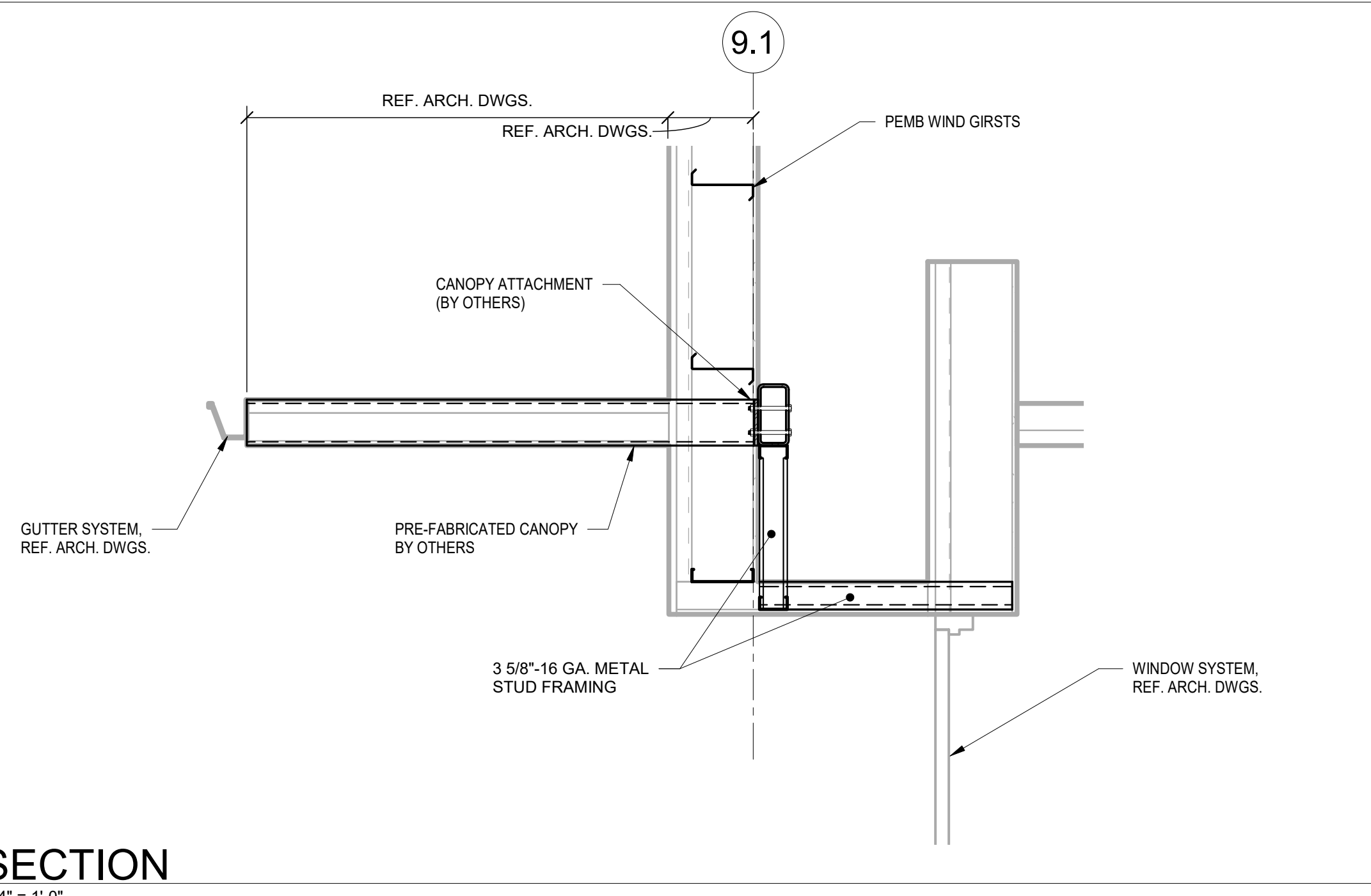
LA PROJECT NO.: 35-114-00  
LA FILE NO.: Southton Service Center F20



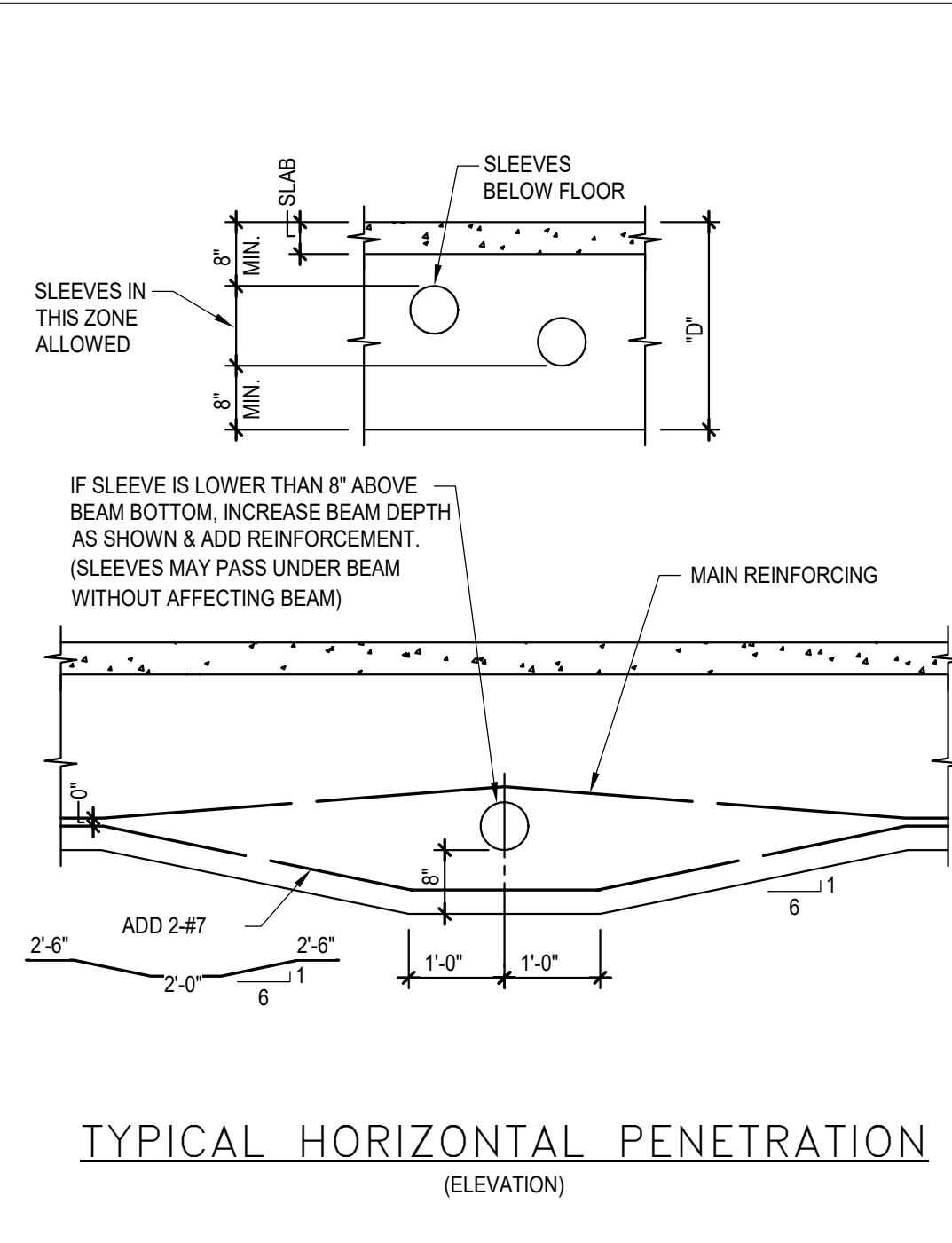
**ROOF FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"



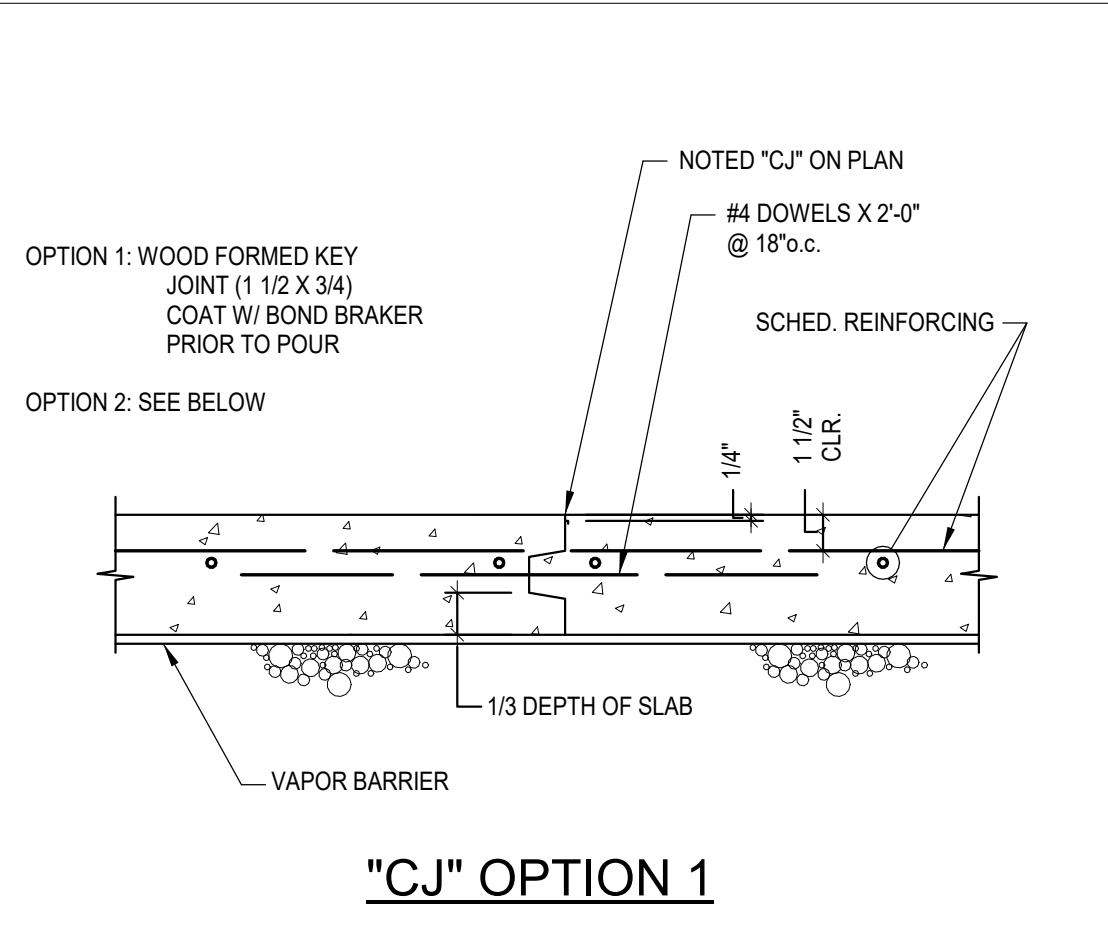
*Shawn Franke*



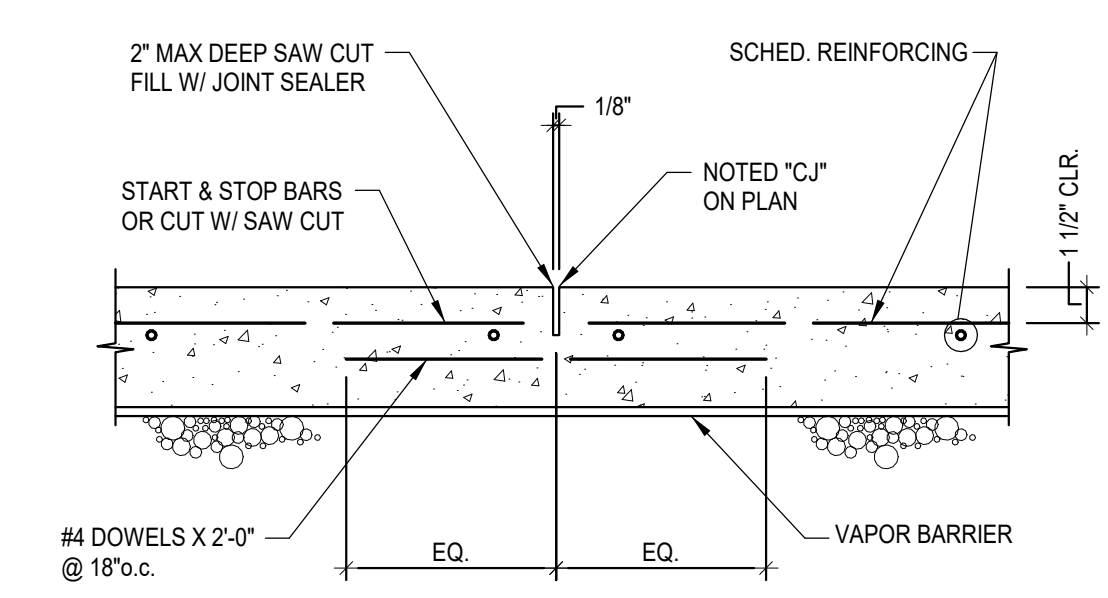
**8 SECTION**  
3/4" = 1'-0"



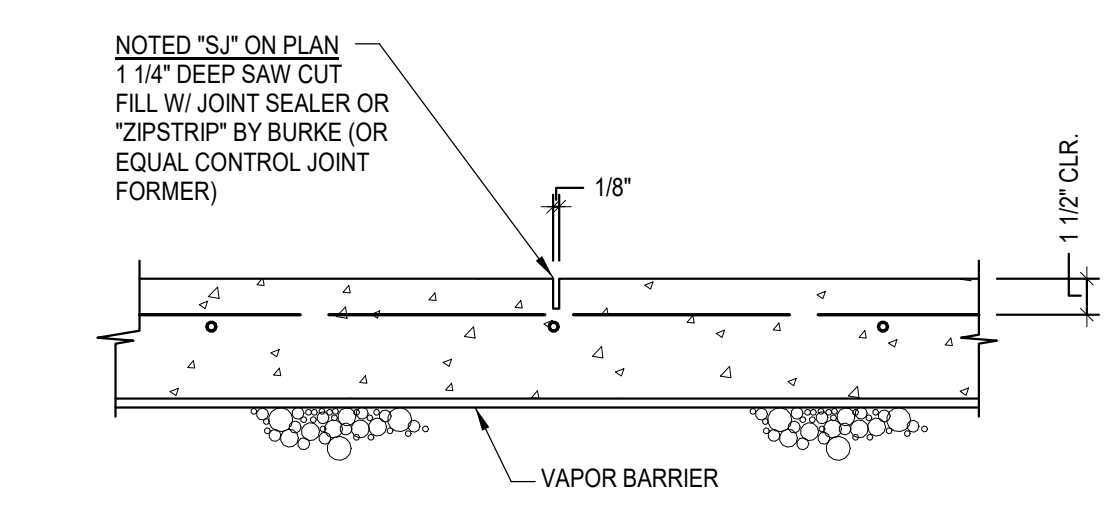
**TYPICAL HORIZONTAL PENETRATION**  
(ELEVATION)



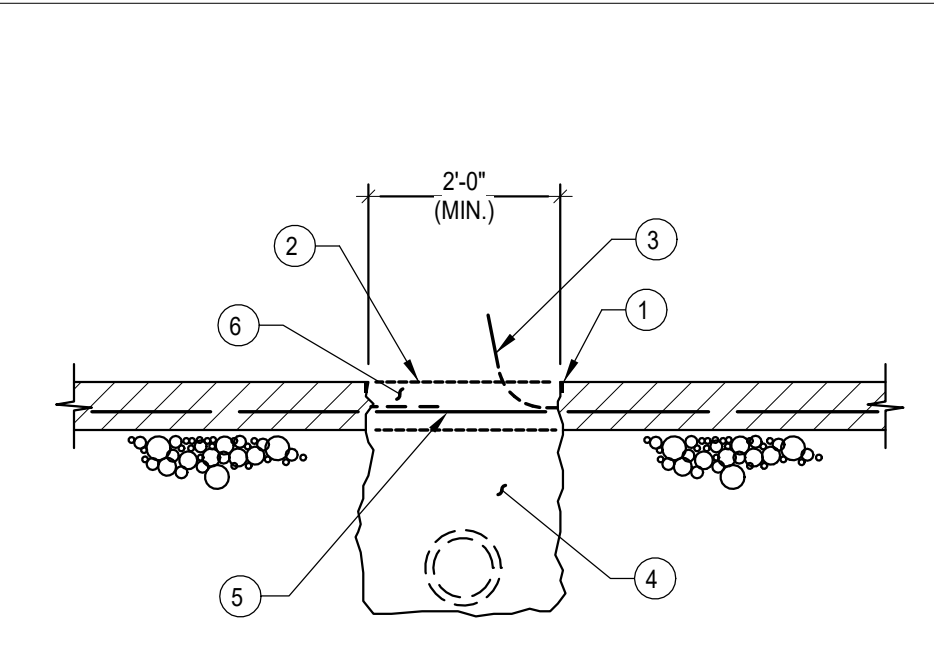
**"CJ" OPTION 1**



**"CJ" OPTION 2**



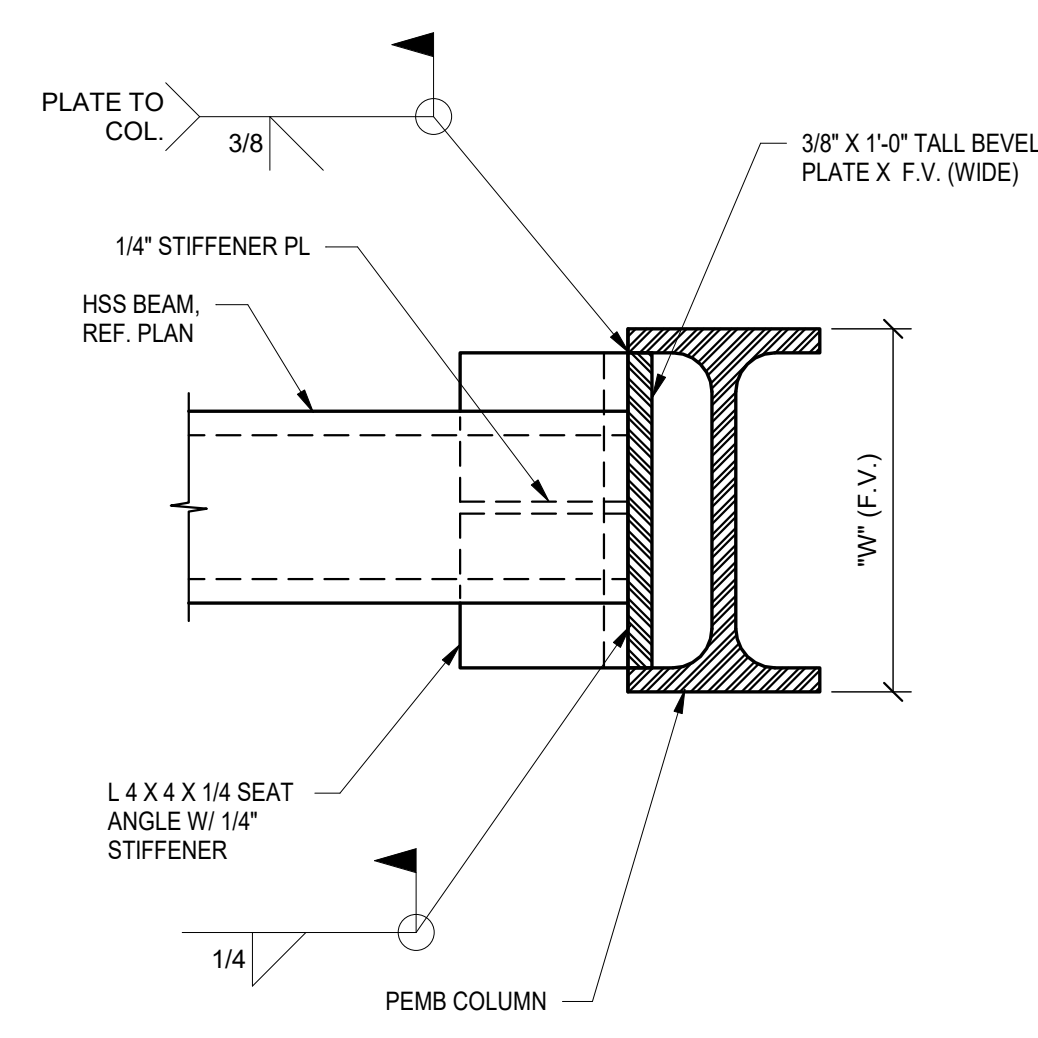
**"SJ"**



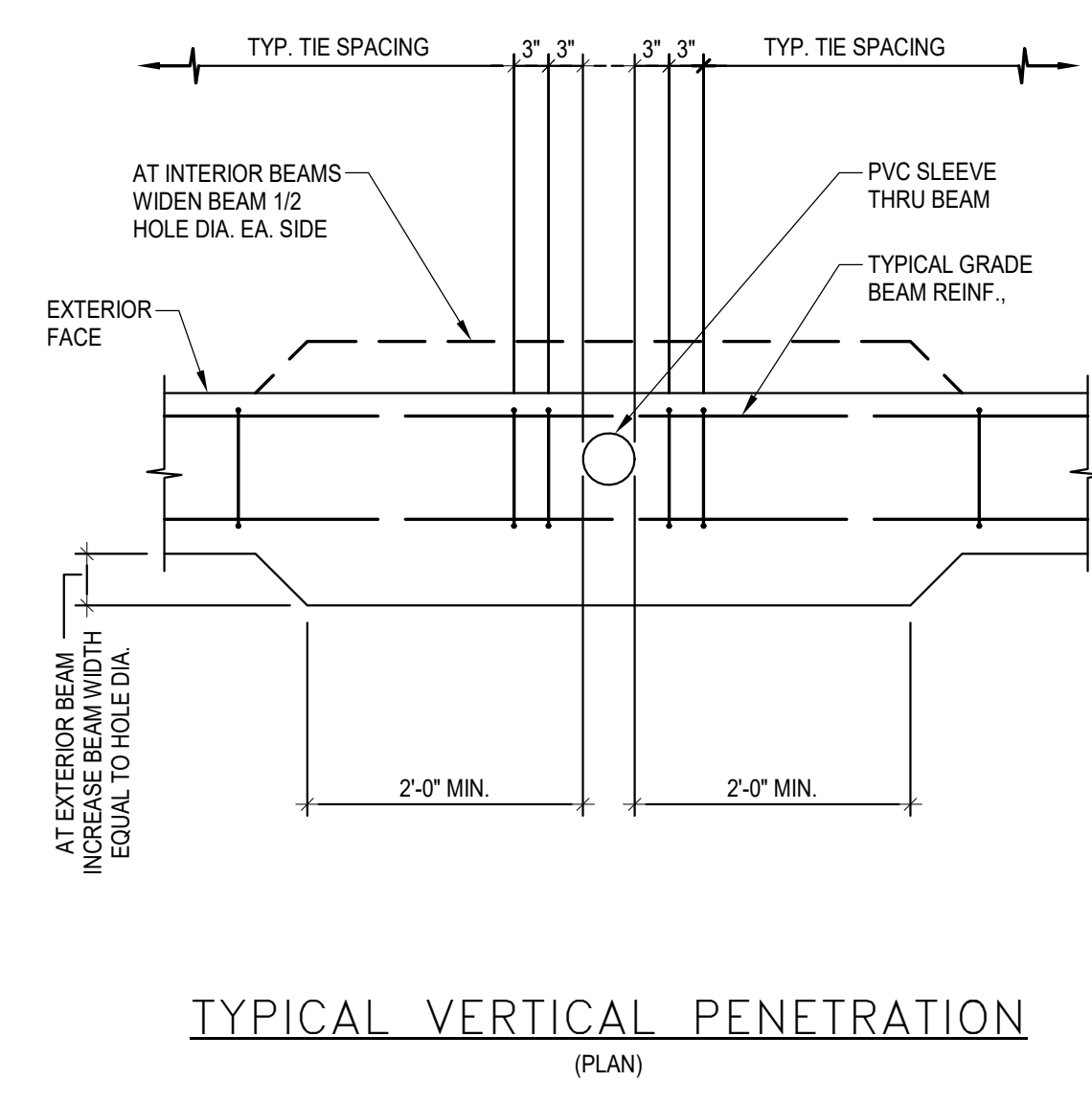
**PROCEDURE:**

- 1 - SAW CUT 3/4" DEEP GROOVES ON EA. SIDE OF DRAIN AS SHOWN
- 2 - "CHIP OUT" EXIST. SLAB LEAVING EXPOSED REINF. INTACT
- 3 - CUT SLAB REINF. AT TRENCH CENTER LINE AND BEND AWAY TO PERMIT PLACEMENT OF PLUMBING LINES
- 4 - BACK FILL TRENCH WITH HAND COMPACTED SAND TO SLAB SOFFIT ELEVATION
- 5 - RE-POSITION "BEND AWAY" SLAB REINF. AND ADD #4 X (TRENCH WIDTH MINUS 2") AT 12" o.c.
- 6 - COAT EXISTING SLAB SURFACES WITH EPOXY BONDING AGENT AND POUR CONCRETE

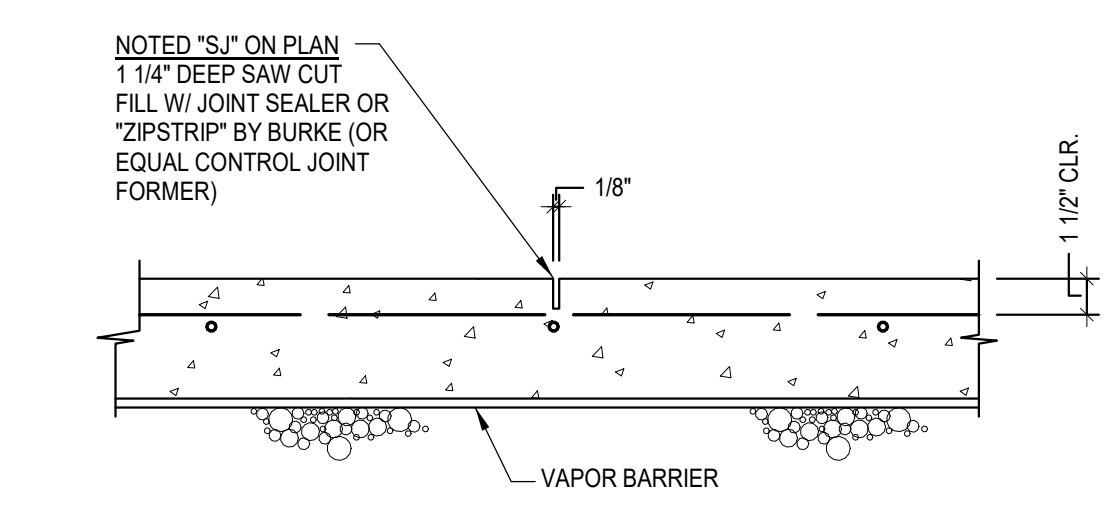
**1 DETAIL (SLAB ONLY)**  
N.T.S.



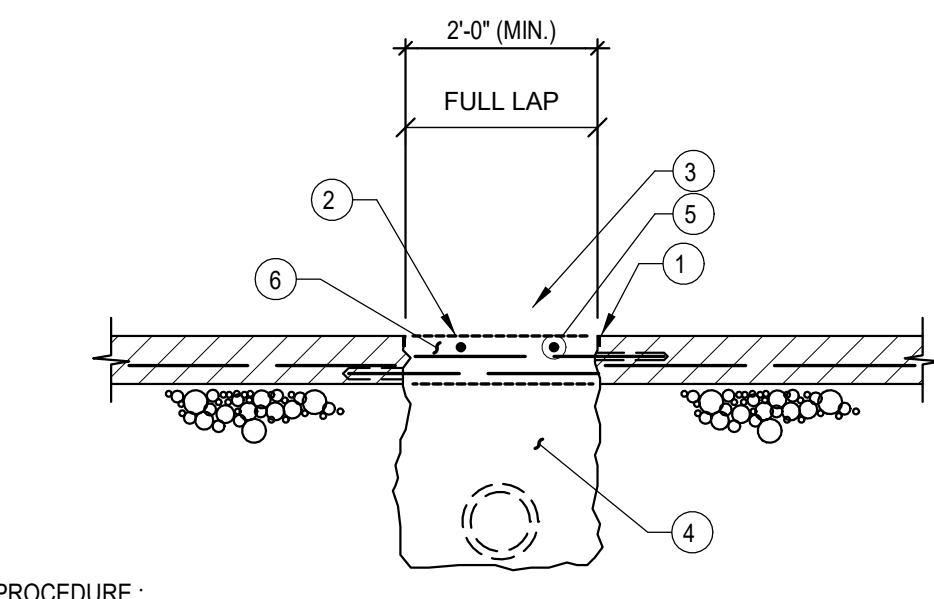
**6 SECTION**  
3" = 1'-0"



**TYPICAL VERTICAL PENETRATION**  
(PLAN)



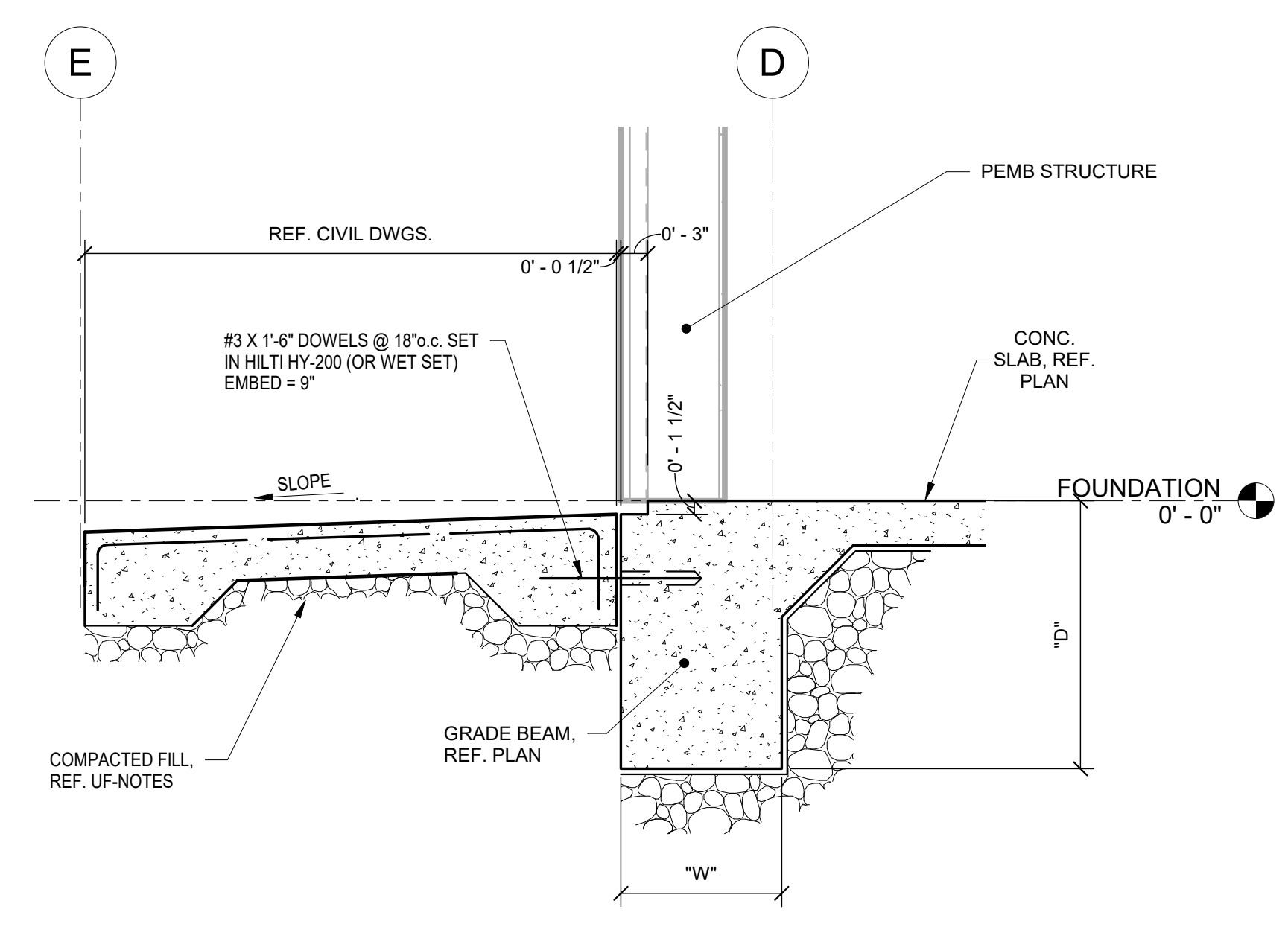
**3 DETAIL**  
N.T.S.



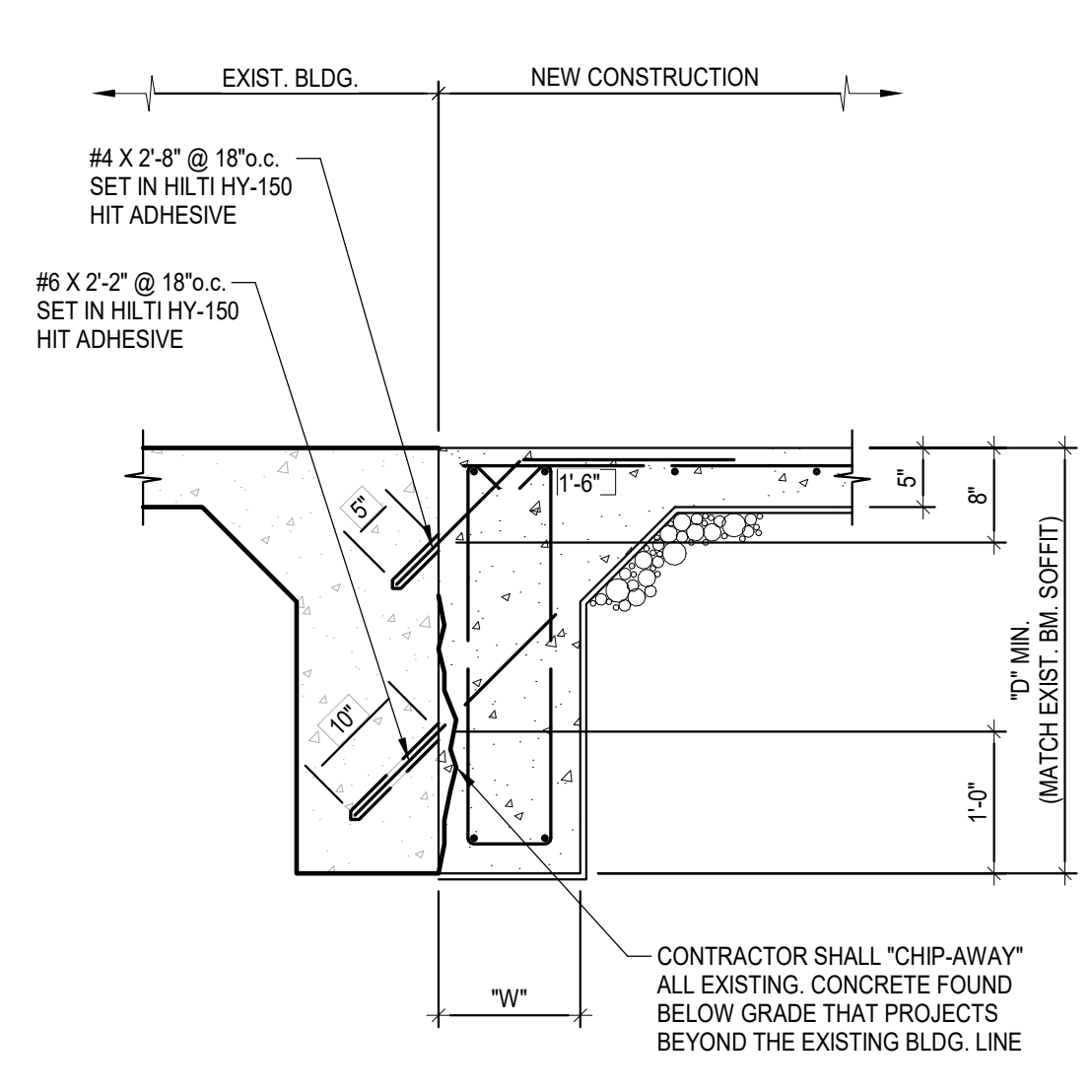
**PROCEDURE:**

- 1 - SAW CUT 3/4" DEEP GROOVES ON EA. SIDE OF DRAIN AS SHOWN
- 2 - "CHIP OUT" EXIST. SLAB LEAVING EXPOSED REINF. INTACT
- 3 - CUT SLAB REINF. AWAY TO PERMIT PLACEMENT OF PLUMBING LINES REPLACE WITH MATCHING DOWELS SET IN HILTI HY-200 EMBED. = 6" PROVIDE FULL LENGTH LAP SPLICE
- 4 - BACK FILL TRENCH WITH HAND COMPACTED SAND TO SLAB SOFFIT ELEVATION
- 5 - ADD #4 BARS PERPENDICULAR TO DOWELS @ 8" o.c.
- 6 - COAT EXISTING SLAB SURFACES WITH EPOXY BONDING AGENT AND POUR CONCRETE

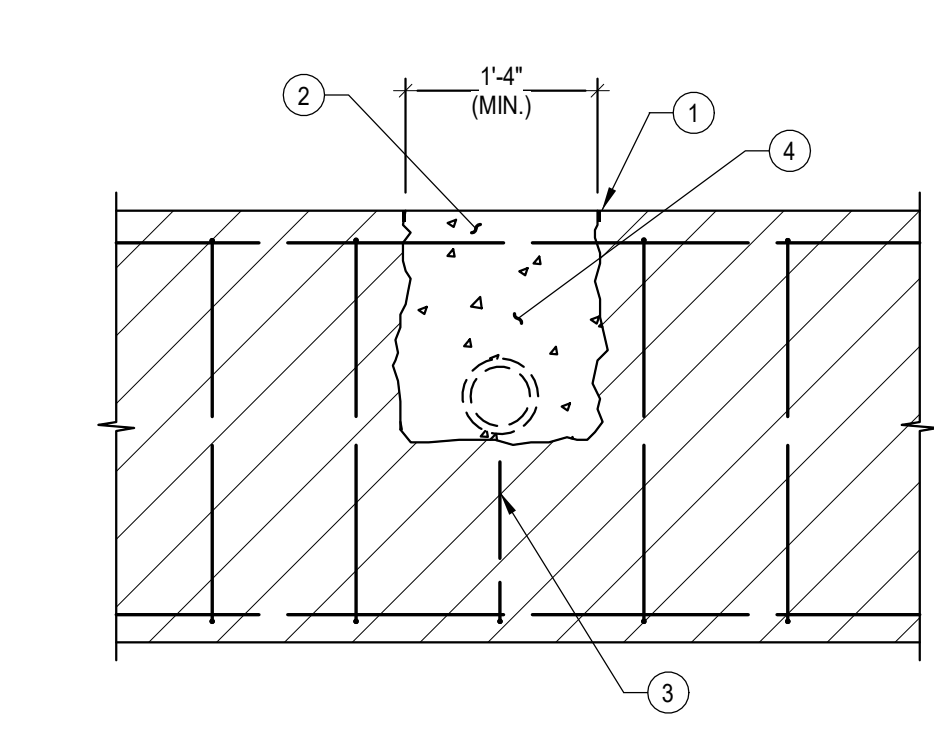
**1A DETAIL (SLAB ONLY)**  
N.T.S.



**7 SECTION**  
3/4" = 1'-0"



**4 DETAIL**  
N.T.S.



**PROCEDURE:**

- 1 - SAW CUT 3/4" DEEP GROOVES ON EA. SIDE OF DRAIN AS SHOWN
- 2 - "CHIP OUT" EXIST. BEAM LEAVING EXPOSED REINF. INTACT
- 3 - CUT AWAY BEAM STIRRUPS AS REQUIRED. TO ROUTE PLUMBING LINES BENEATH TOP STEEL
- 4 - COAT EXISTING BEAM SURFACES WITH EPOXY BONDING AGENT AND POUR CONCRETE

**2 DETAIL (BEAM ONLY)**  
N.T.S.

LA PROJECT NO.: 35-114-00  
LA FILE NO.: Southton Service Center R20

**SLAY**  
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DATE: 09/30/2021

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SHAWN J. FRANKIE  
82639  
LICENSED PROFESSIONAL ENGINEER

*Shawn Frank*

CONTRACT DOCUMENTS SET  
**SOUTHTON SERVICE CENTER**  
9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

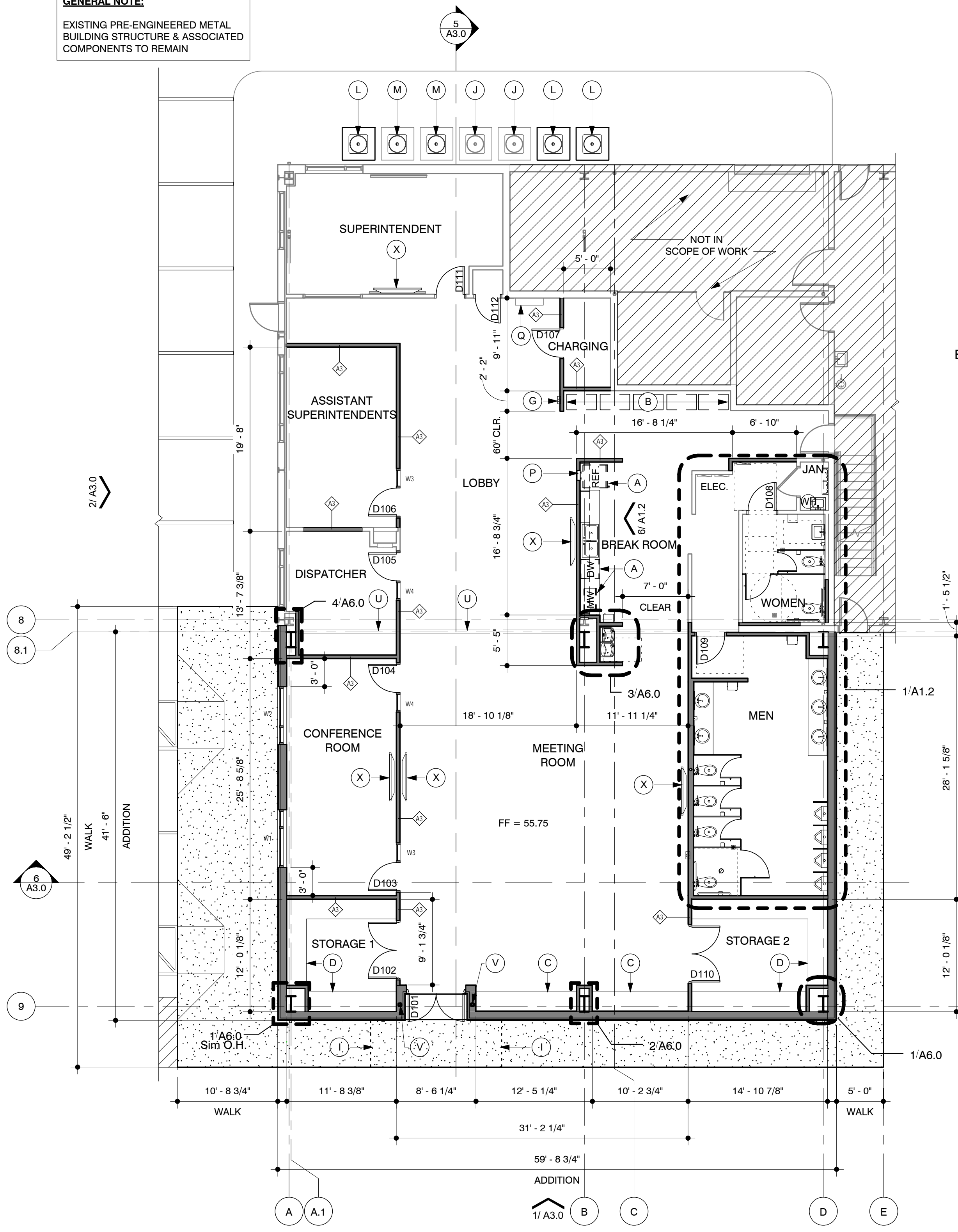
Project NO. 21014  
Date: 09/30/2021  
Revisions:

**S3.0**  
DETAILS AND SECTIONS

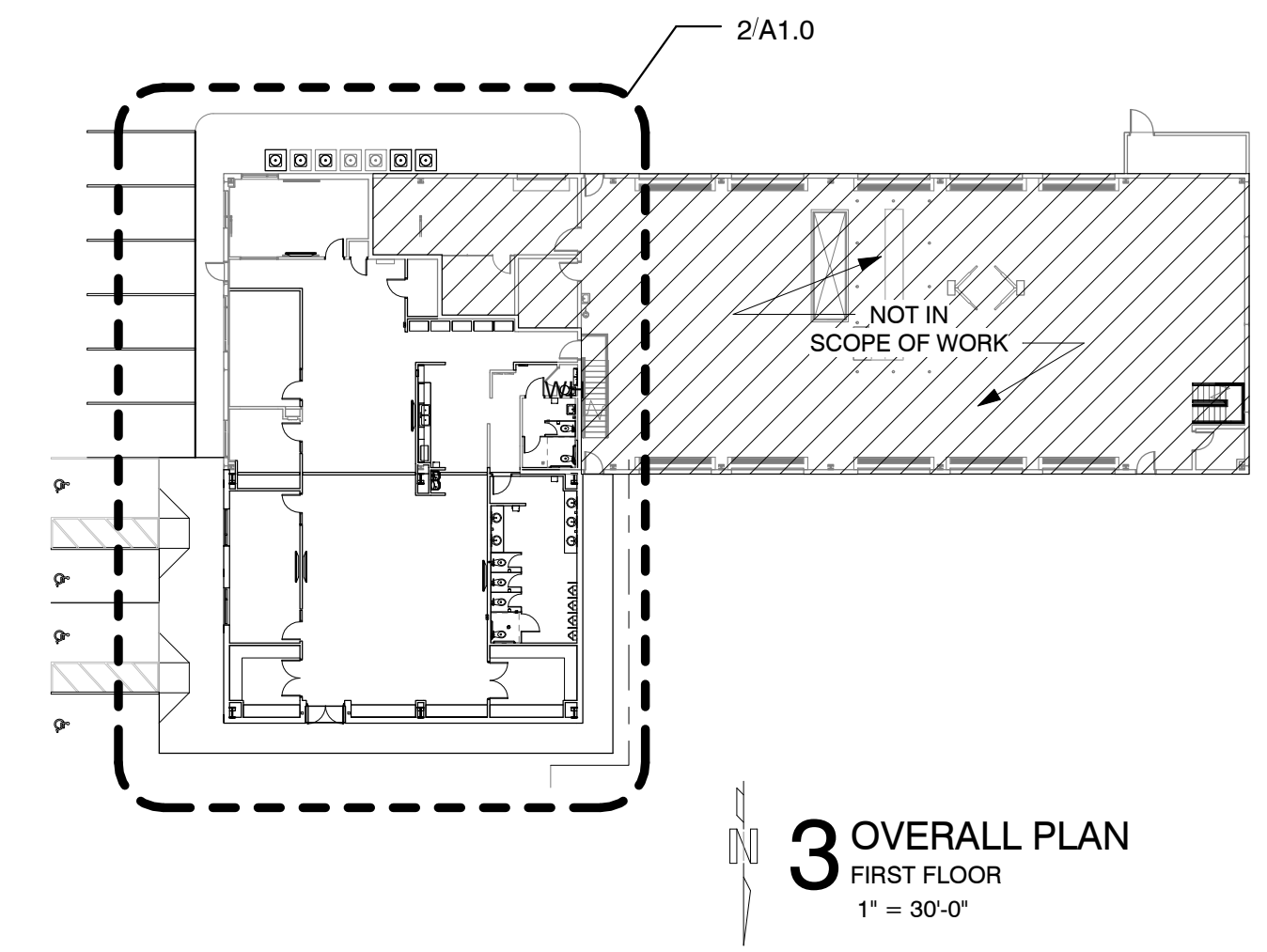
9/30/2021 2:47:57 PM J:\21014\_SouthtonDRAWING FILES\REVIT\21014 - 9874 Southton Service Center.rvt  
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ROOM NAME	FLOOR	BASE	WALL FINISH				CEILING
			NORTH	SOUTH	EAST	WEST	
CONFERENCE ROOM	CARPET	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
STORAGE 1	LVT	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
STORAGE 2	LVT	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
DISPATCHER	CARPET	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
ASSISTANT SUPERINTENDENTS	CARPET	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
SUPERINTENDENT	CARPET	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
CHARGING	LVT	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
JAN.	LVT	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
WOMEN	PORCELAIN TILE	PORCELAIN TILE	PORCELAIN TILE / GYP / PAINT	GYP / PAINT	GYP / PAINT	PORCELAIN TILE / GYP / PAINT	ACT
MEN	PORCELAIN TILE	PORCELAIN TILE	PORCELAIN TILE / GYP / PAINT	GYP / PAINT	GYP / PAINT	PORCELAIN TILE / GYP / PAINT	ACT
MEETING ROOM	LVT	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
BREAK ROOM	LVT	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT
LOBBY	LVT	RUBBER	GYP / PAINT	GYP / PAINT	GYP / PAINT	GYP / PAINT	ACT

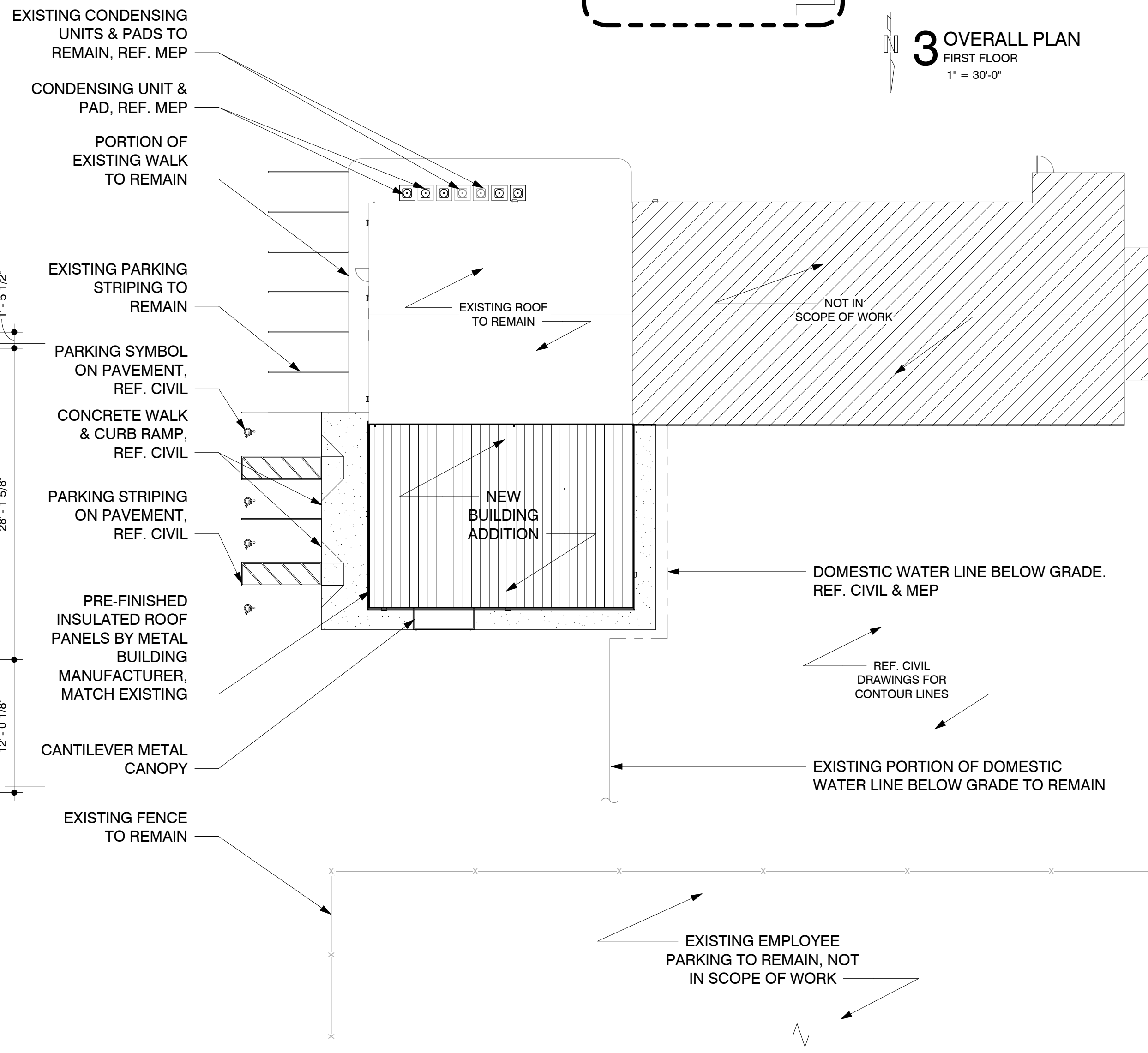
**GENERAL NOTE:**  
 EXISTING PRE-ENGINEERED METAL BUILDING STRUCTURE & ASSOCIATED COMPONENTS TO REMAIN



**2 FLOOR PLAN**  
 1/8" = 1'-0"



**3 OVERALL PLAN**  
 FIRST FLOOR  
 1" = 30'-0"



- GENERAL NOTES**
- ALL NEW CONCRETE WALKS ARE TO HAVE A 5% MAX. SLOPE AND A 2% MAX. CROSS SLOPE.
  - CURB RAMPS ARE TO HAVE AN 8.3% MAX SLOPE AND A 2% MAX. CROSS SLOPE, WITH 1/2" WIDE BY 1/8" DEEP GROOVES AT 2' O.C. EXTENDING THE FULL WIDTH OF THE RAMP AT AN ANGLE THAT WILL ALLOW WATER TO DRAIN FROM GROOVES. THE RAMP MUST ALSO BE OF CONTRASTING COLOR TO BE SELECTED BY THE ARCHITECT. FIELD VERIFY RISE TO SET RAMP DEPTH.
  - PROVIDE GUARDRAILS AT ALL AREAS WHERE FINISH GRADE IS 30" OR GREATER ABOVE EXISTING GRADE.
  - PROVIDE KNOX BOX IN LOCATIONS AS DIRECTED BY FIRE MARSHALL.
  - WHERE CONCRETE PAVING MEETS VERTICAL CONSTRUCTION, PROVIDE 1/2" EXPANSION JOINT WITH PRE-MOLDED EXPANSION JOINT MATERIAL AND SEALANT.
  - ALL JOINTS SHOWN ON WALKS ARE CONTROL JOINTS AND EXPANSION JOINTS. CONTROL JOINTS AT 5'-0" O.C. AND EXPANSION JOINTS AT 20'-0" O.C. UNLESS SHOWN OTHERWISE.
  - REFER TO CIVIL DRAWINGS FOR ALL SITE RELATED ITEMS NOT SHOWN ON ARCHITECTURAL SHEETS.

**FLOOR PLAN KEY NOTES**

A	EQUIPMENT BY OWNER
B	FURNISHING BY OWNER
C	24" DEEP COUNTERTOP, REF. 10/A1.2
D	24" DEEP SHELVES, REF. 9/A1.2
E	DRINKING FOUNTAIN, REF. MEP
F	VENT THROUGH ROOF, REF. MEP, REF. 4/A1.1
G	FIRE EXTINGUISHER CABINET, MATCH EXISTING
H	PRE-ENGINEERED COLUMN BY METAL BUILDING MANUFACTURER, TYP.
I	DASHED LINE INDICATES CANOPY ABOVE
J	EXISTING CONDENSING UNIT & PAD TO REMAIN, REF. MEP
K	PRE-FINISHED METAL DOWNSPOUT, MATCH EXISTING
L	CONDENSING UNIT & PAD, REF. MEP
M	CONDENSING UNIT ON EXISTING PAD, REF. MEP
N	ELECTRICAL PANEL, REF. MEP
O	WATER HEATER, REF. MEP
P	WALL BOX, REF. MEP
Q	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN
R	CLEANOUT, REF. MEP
S	FLOOR DRAIN, REF. MEP
T	EXISTING FLOOR DRAIN TO REMAIN, REF. MEP
U	FURNISH & INSTALL FLOOR THRESHOLD WHERE EXISTING & NEW FOUNDATIONS TIE-IN, REF. SPECS
V	STEEL COLUMN, REF. STRUCTURAL
W	24" DEEP COUNTERTOP, REF. 11/A1.2
X	VIDEO DISPLAY UNIT & ASSOCIATED SUPPORTS, REF. SPECS

**GENERAL NOTE:**  
 REF. MEP DRAWINGS FOR PLUMBING FIXTURES

**1 SITE PLAN**  
 1" = 20'-0"

**SLAY ARCHITECTURE**

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 T: 210.736.3009

LAREDO  
 9901 McPherson Avenue, #104  
 Laredo, Texas 78045  
 T: 956.791.0400

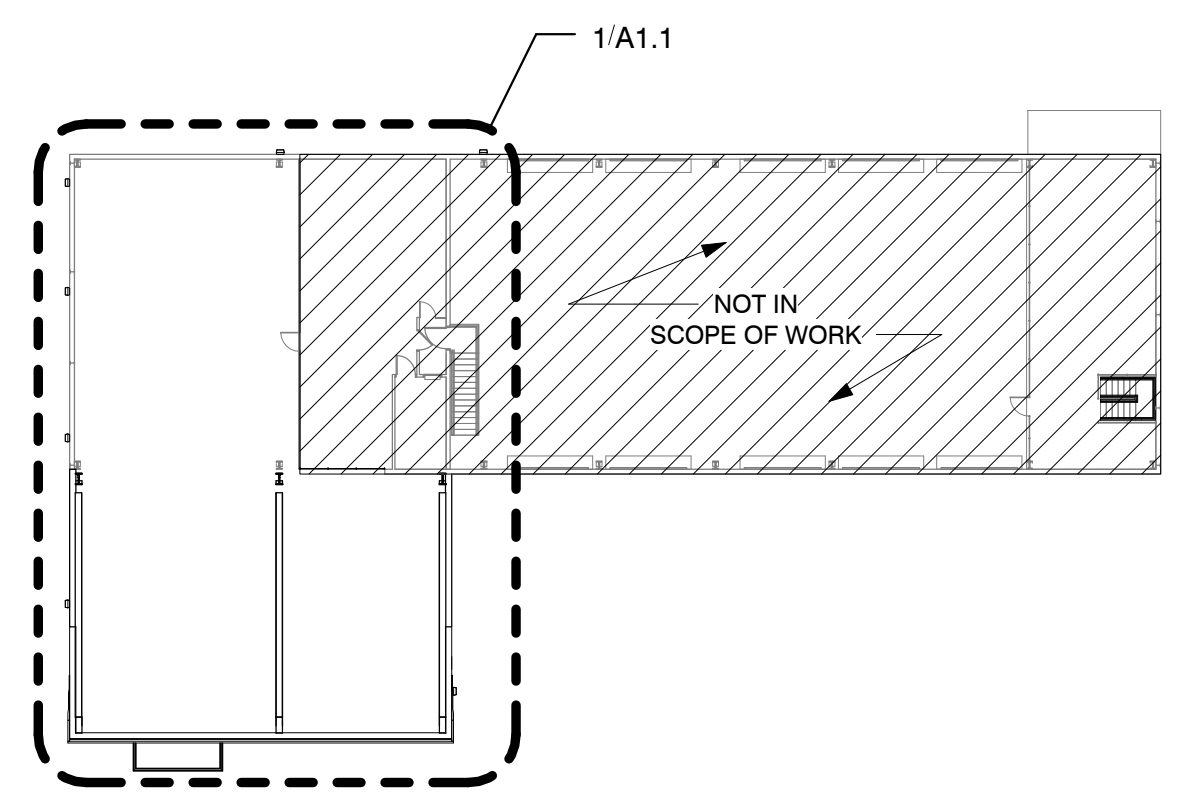
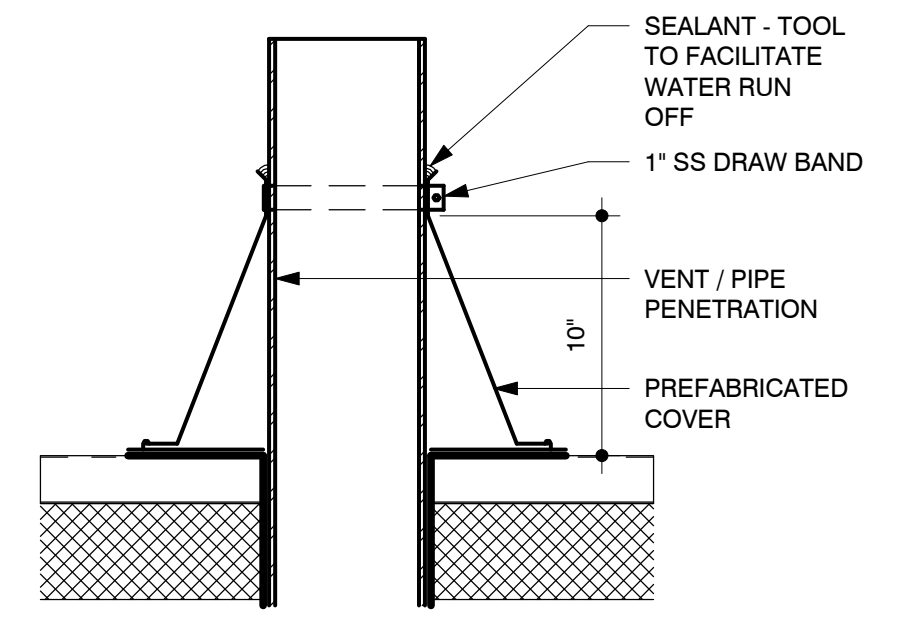
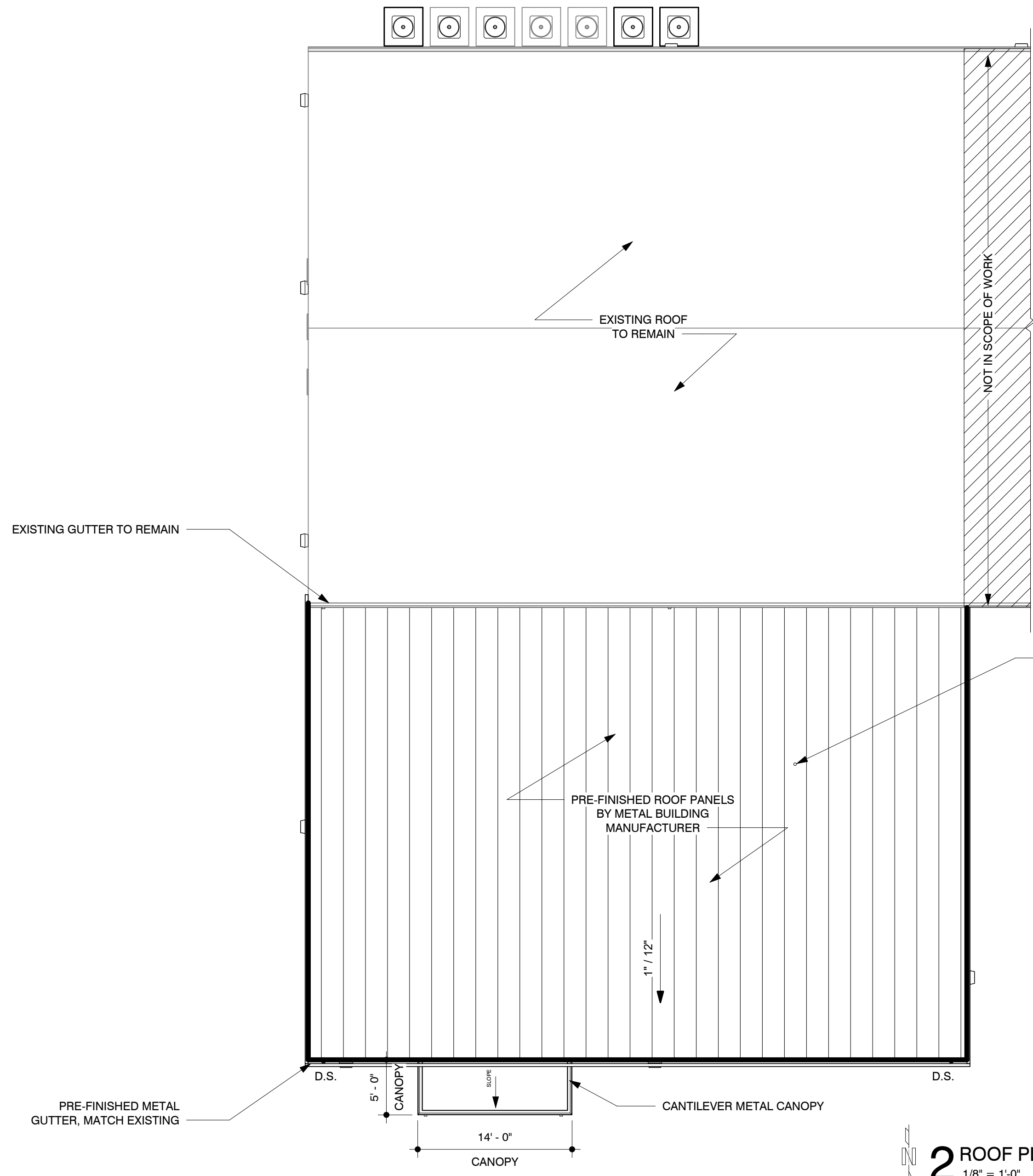
REGISTERED ARCHITECT  
 STATE OF TEXAS  
 16442  
 09/30/2021

**CONTRACT DOCUMENTS - PERMIT SET**  
**SOUTHTON SERVICE CENTER**  
 9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

Project NO. 21014  
 Date: 09/30/2021  
 Revisions:

**A1.0**  
 SITE PLAN, FLOOR PLAN, AND ROOM FINISH SCHEDULE

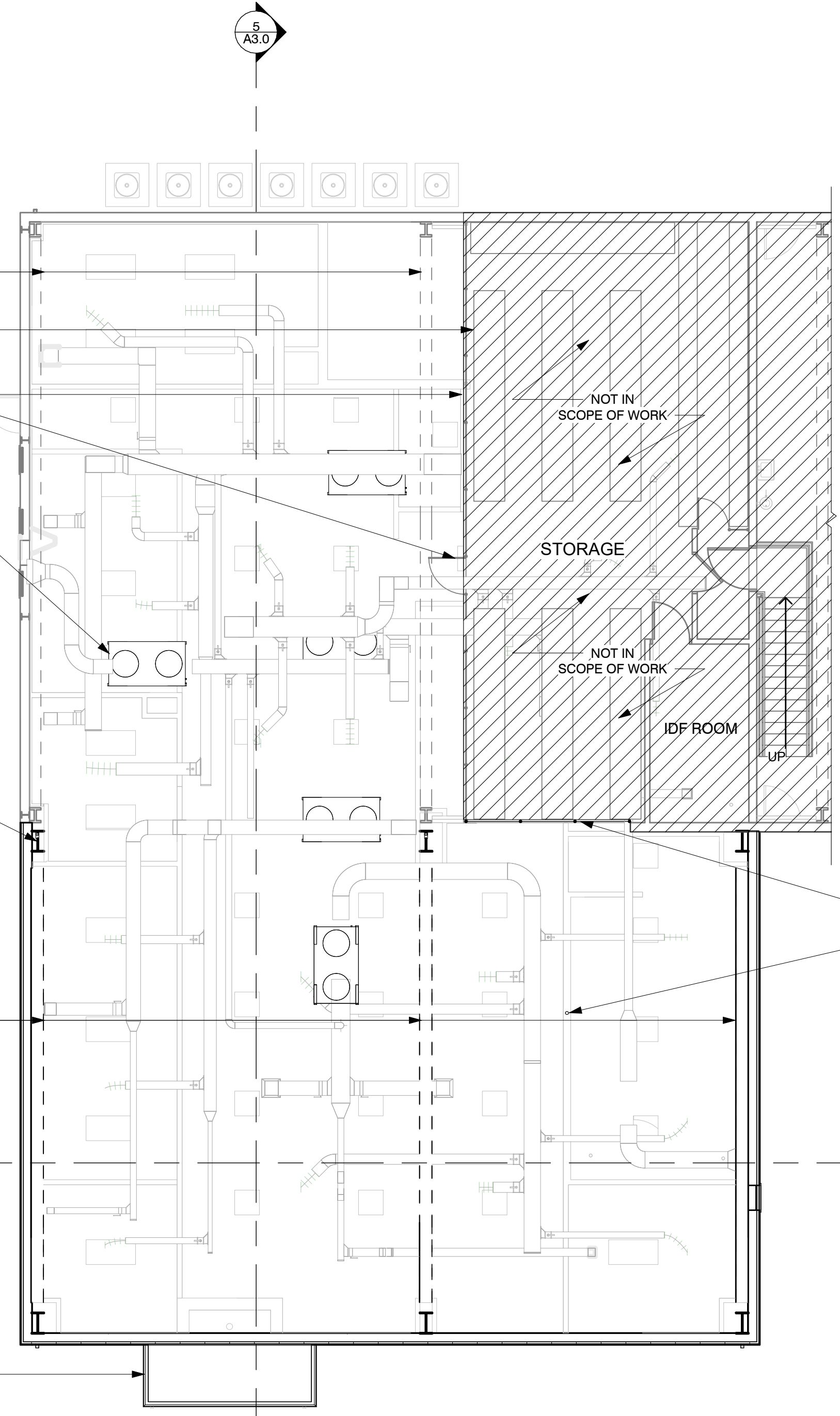
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**GENERAL NOTE:**  
 EXISTING PRE-ENGINEERED METAL BUILDING STRUCTURE & ASSOCIATED COMPONENTS TO REMAIN

DASHED LINE INDICATES EXISTING METAL FRAME ABOVE TO REMAIN  
 EXISTING MEZZANINE FURNISHINGS TO REMAIN, TYP.  
 EXISTING CHAINLINK PARTITION AND GATE TO REMAIN  
 AIR HANDLING UNIT, TYP. REF. MEP

PRE-ENGINEERED COLUMN BY METAL BUILDING MANUFACTURER, TYP.  
 VENT THROUGH ROOF, REF. MEP, REF. 4/A1.1  
 DASHED LINE INDICATES PRE-ENGINEERED FRAME ABOVE BY METAL BUILDING MANUFACTURER, TYP.



**SLAY**  
 ARCHITECTURE

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 Laredo, Texas 78045  
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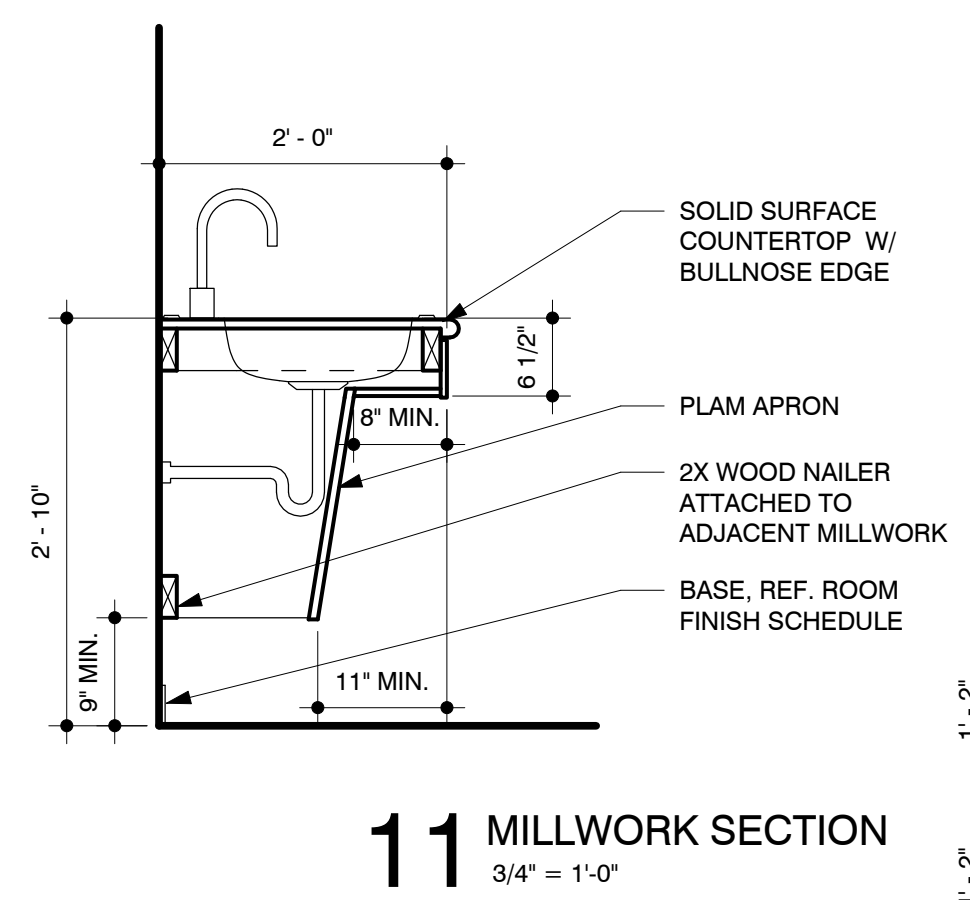
09/30/2021

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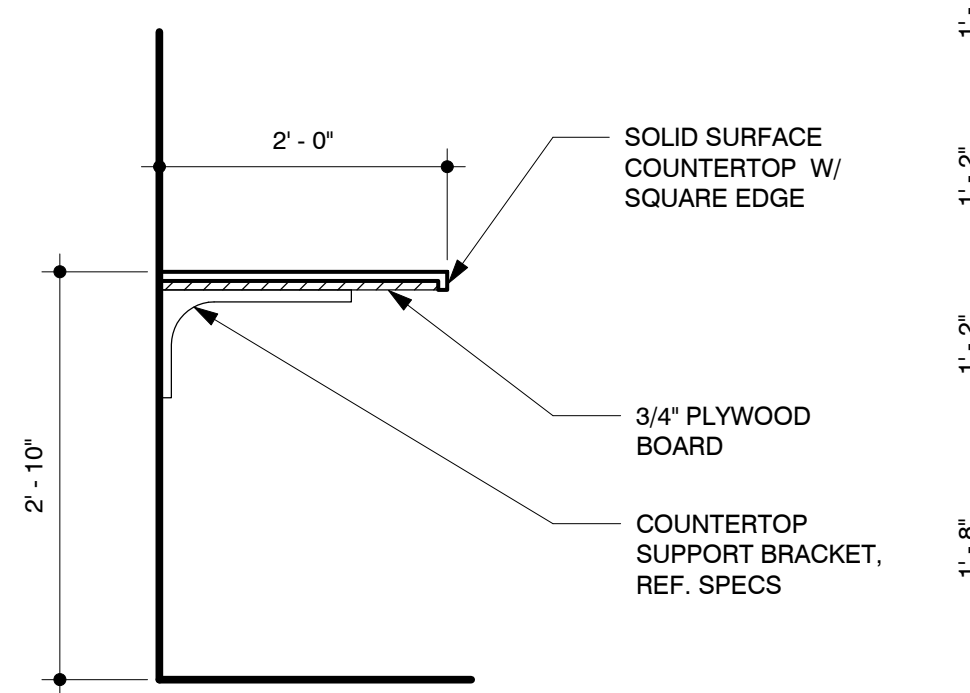
Project NO. 21014  
 Date: 09/30/2021  
 Revisions:

**A1.1**  
 MEZZANINE PLAN, AND ROOF PLAN

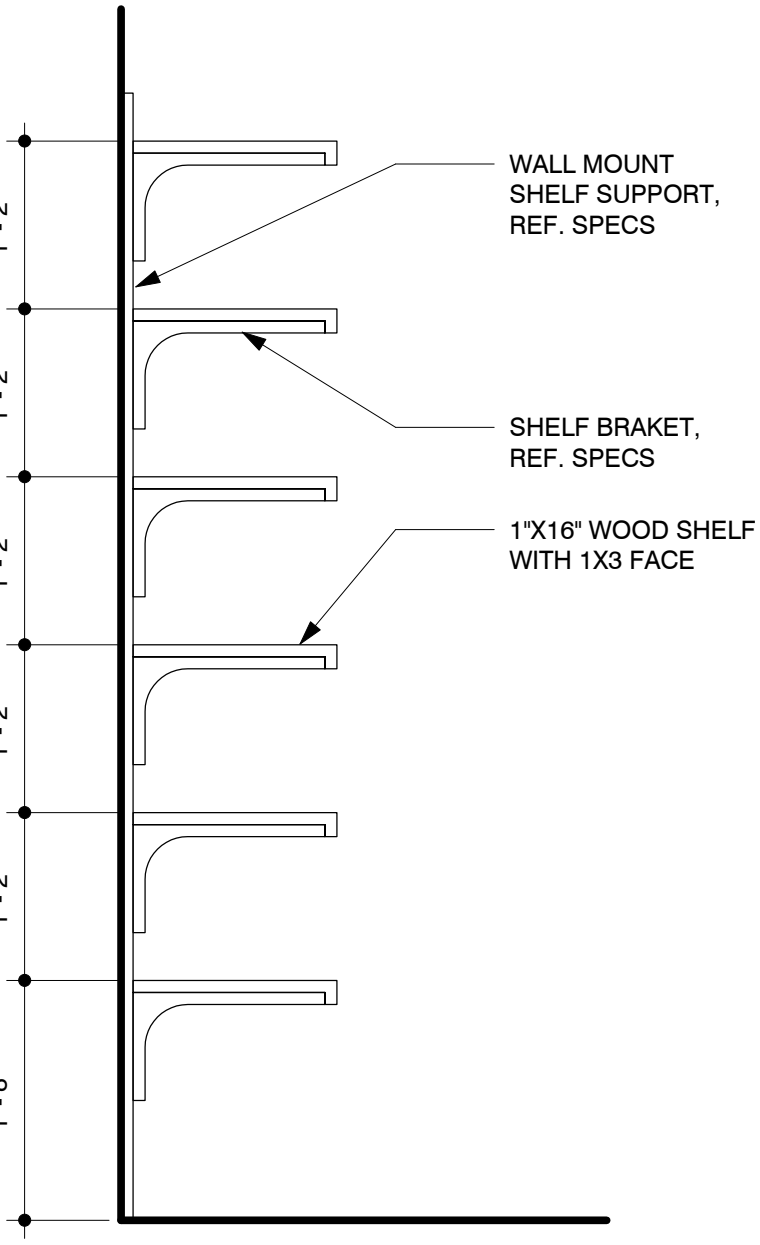
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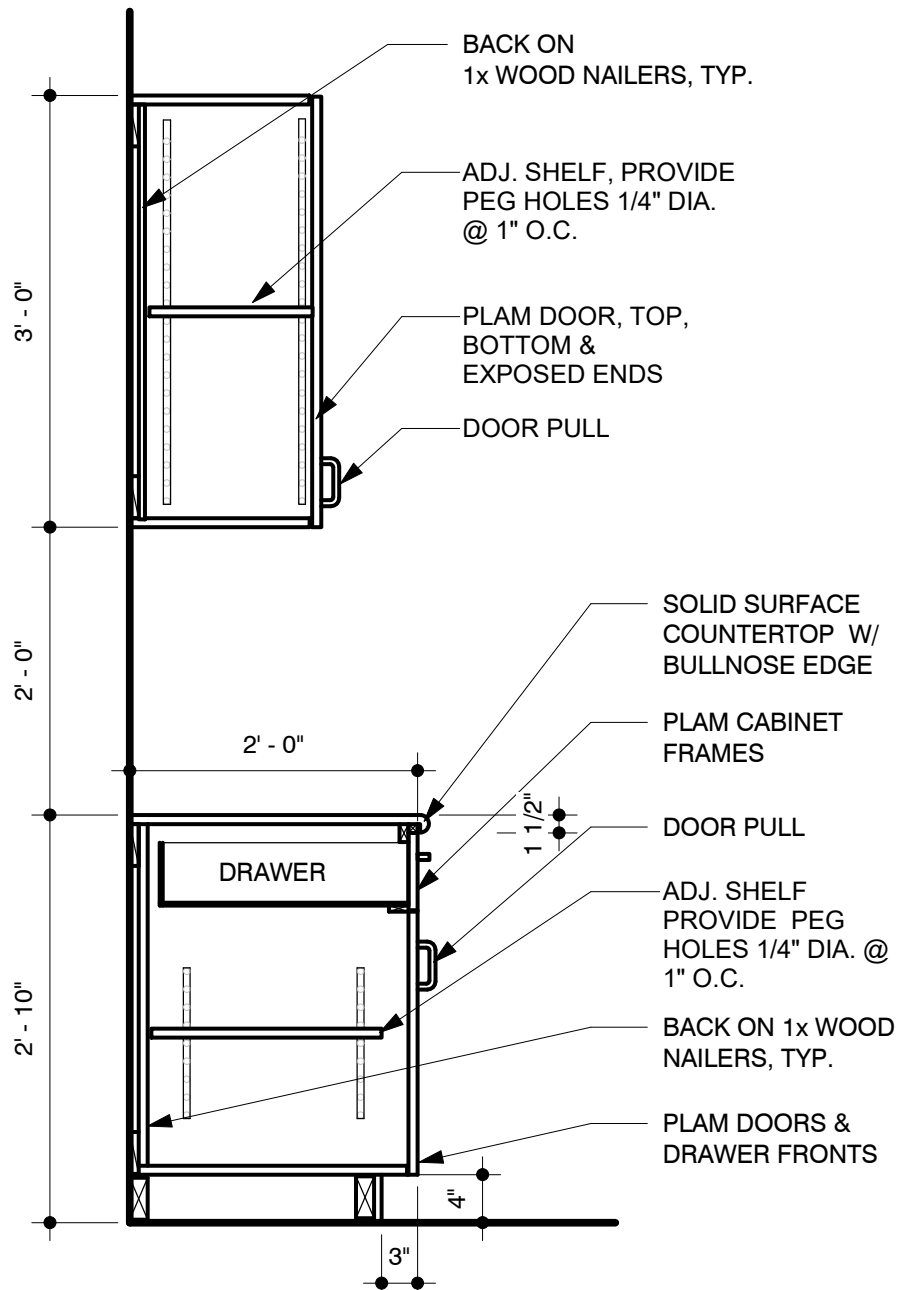
**11 MILLWORK SECTION**  
3/4" = 1'-0"



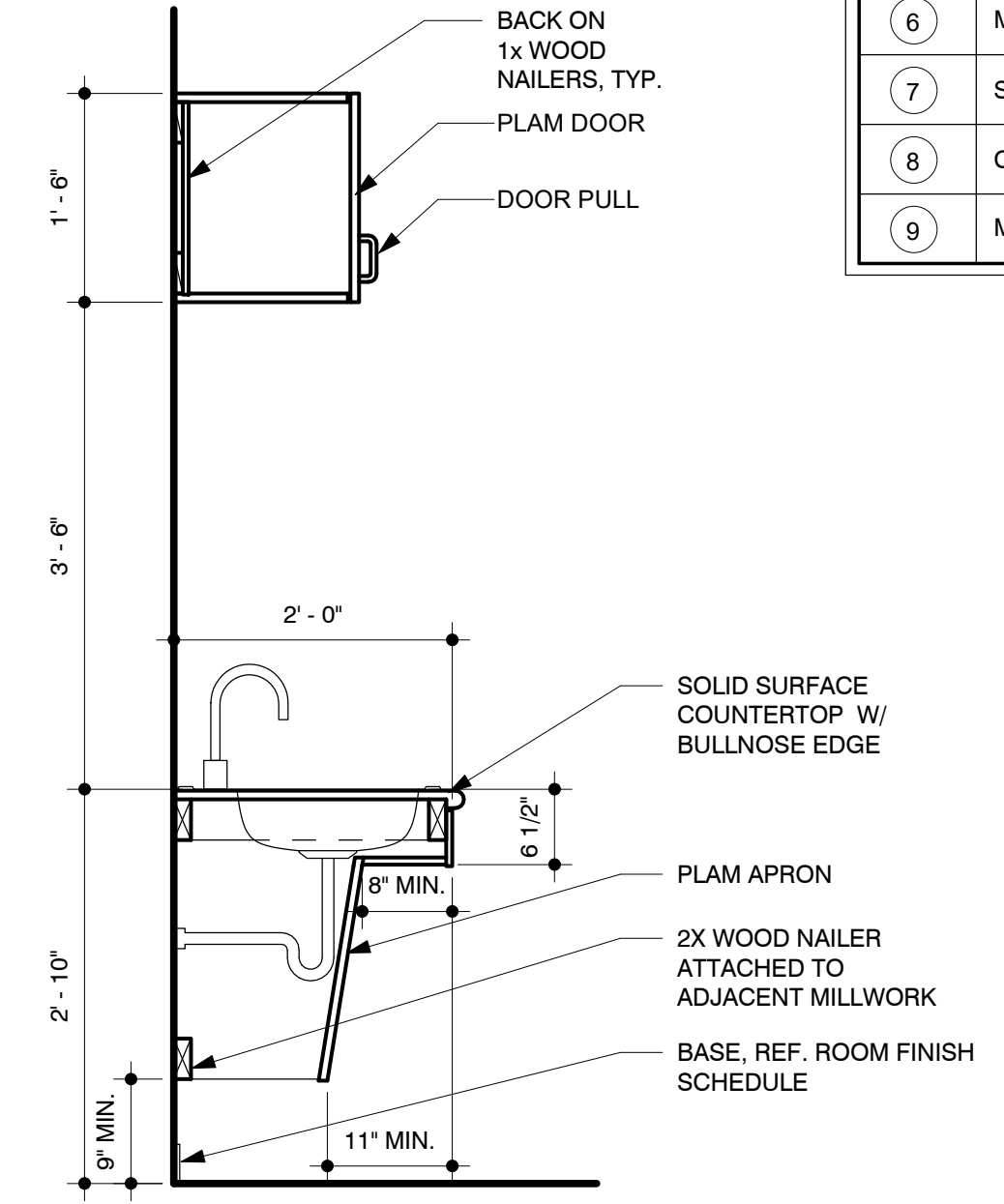
**10 MILLWORK SECTION**  
3/4" = 1'-0"



**9 MILLWORK SECTION**  
3/4" = 1'-0"



**8 MILLWORK SECTION**  
3/4" = 1'-0"

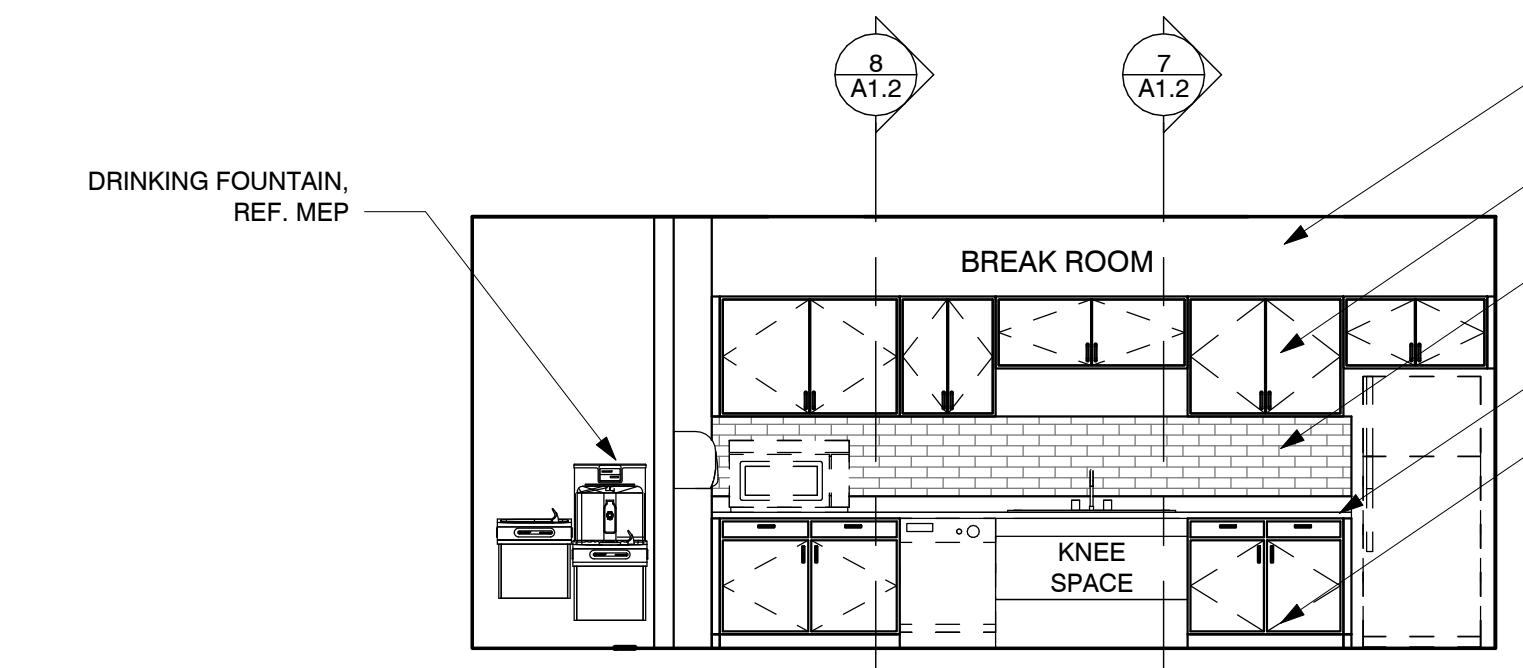


**7 MILLWORK SECTION**  
3/4" = 1'-0"

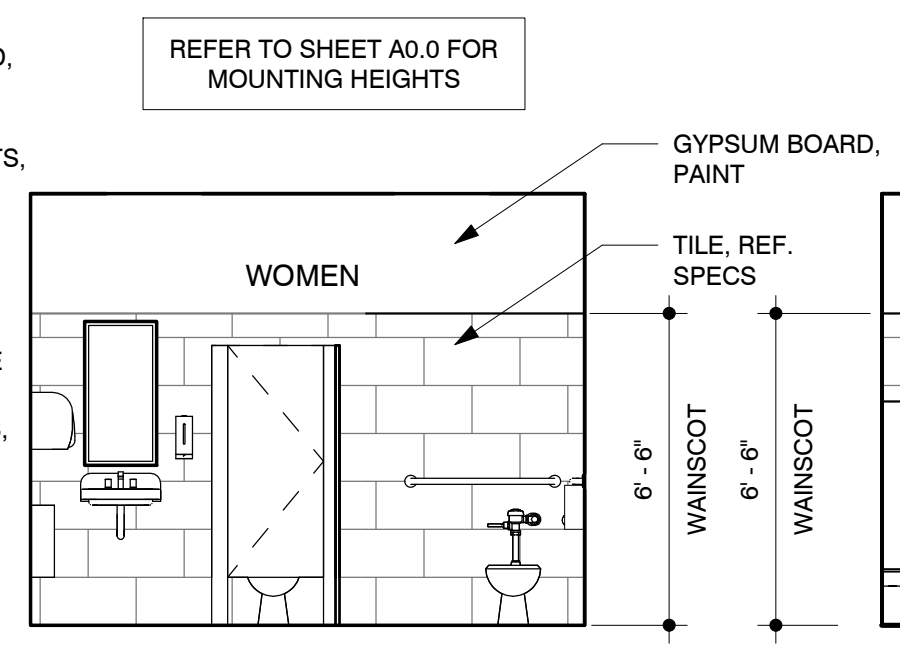
TOILET ROOM ACCESSORIES		
	MANUFACTURER	MODEL
1	36" GRAB BAR	BOBRICK B-5806.99
2	42" GRAB BAR	BOBRICK B-5806.99
3	TOILET TISSUE DISPENSER	BOBRICK B-2721
4	PAPER TOWEL DISPENSER	BOBRICK B-262
5	SURFACE-MOUNTED WASTE RECEPTACLE	BOBRICK B-279
6	MIRROR 24"x36"	BOBRICK B-165 2436
7	SOAP DISPENSER	BOBRICK B-2013
8	COAT HOOK	BOBRICK B-2116
9	MOP & BROOM HOLDER	BOBRICK B-239X34

FLOOR PLAN KEY NOTES	
A	EQUIPMENT BY OWNER
B	FURNISHING BY OWNER
C	24" DEEP COUNTERTOP, REF. 9/A1.2
D	24" DEEP SHELVES, REF. 9/A1.2
E	DRINKING FOUNTAIN, REF. MEP
F	VENT THROUGH ROOF, REF. MEP, REF. 4/A1.1
G	FIRE EXTINGUISHER CABINET, MATCH EXISTING
H	PRE-ENGINEERED COLUMN BY METAL BUILDING MANUFACTURER, TYP.
I	DASHED LINE INDICATES CANOPY ABOVE
J	EXISTING CONDENSING UNIT & PAD TO REMAIN, REF. MEP
K	PRE-FINISHED METAL DOWNSPOUT, MATCH EXISTING
L	CONDENSING UNIT & PAD, REF. MEP
M	CONDENSING UNIT ON EXISTING PAD, REF. MEP
N	ELECTRICAL PANEL, REF. MEP
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R	CLEANOUT, REF. MEP
S	FLOOR DRAIN, REF. MEP
T	EXISTING FLOOR DRAIN TO REMAIN, REF. MEP
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V	STEEL COLUMN, REF. STRUCTURAL
W	24" DEEP COUNTERTOP, REF. 11/A1.2
X	VIDEO DISPLAY UNIT & ASSOCIATED SUPPORTS, REF. SPECS

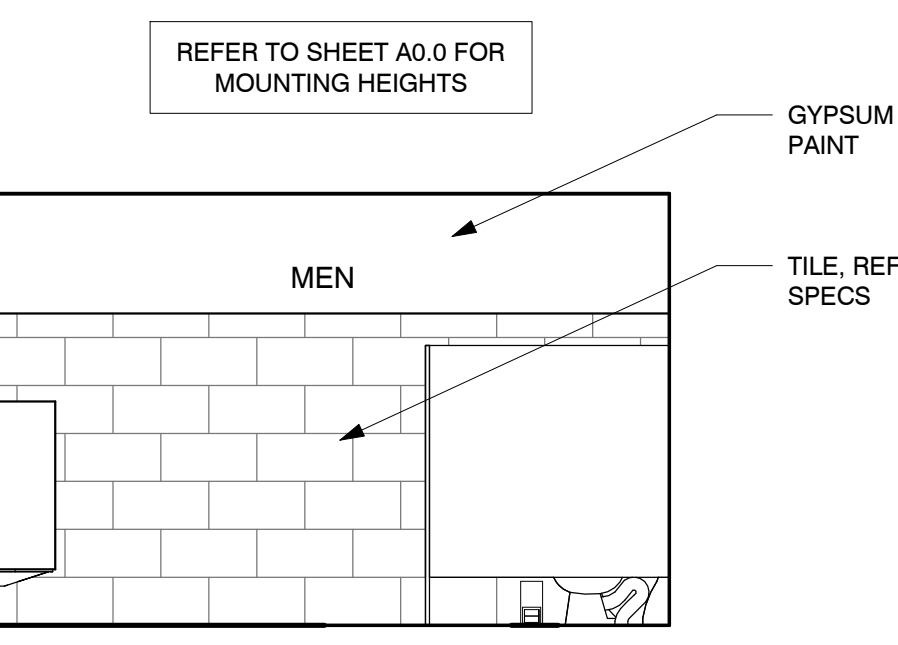
**GENERAL NOTE:**  
REF. MEP DRAWINGS FOR PLUMBING FIXTURES



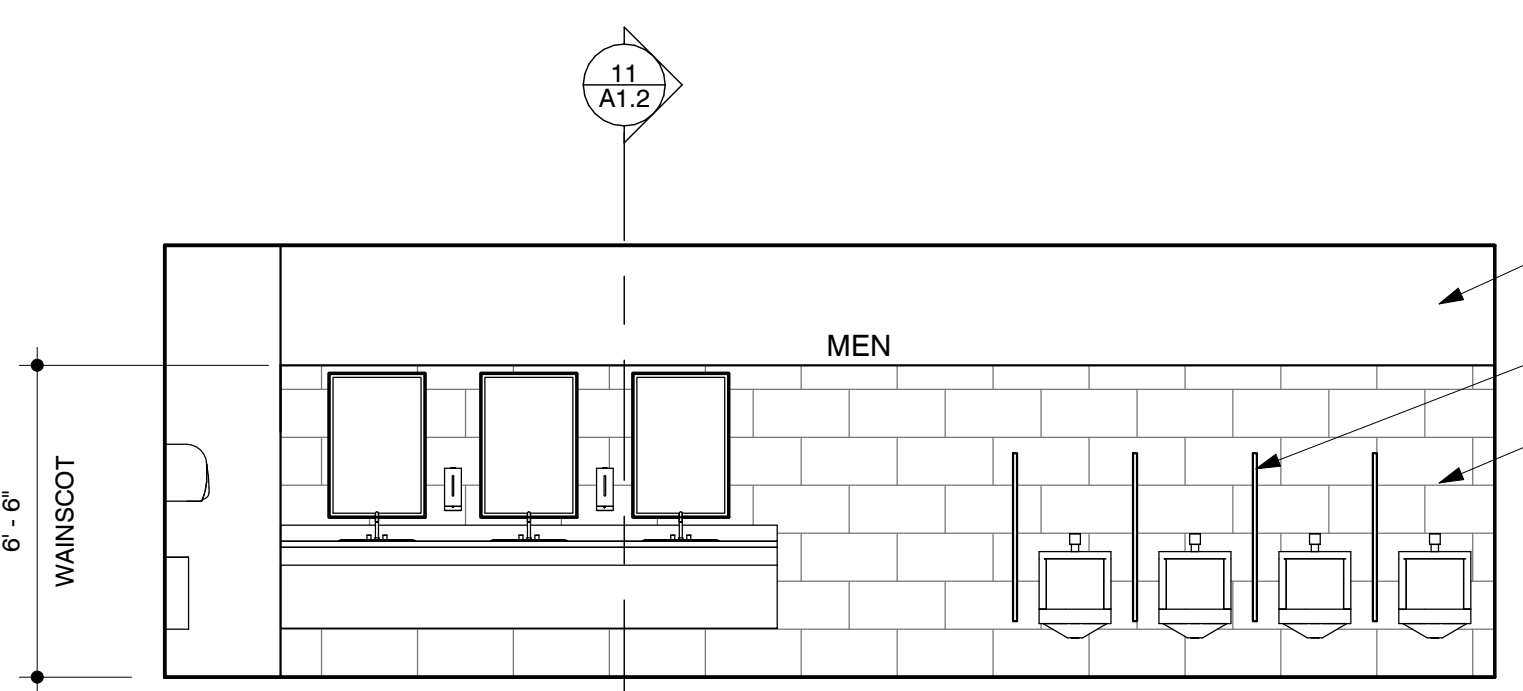
**6 INTERIOR ELEVATION**  
1/4" = 1'-0"



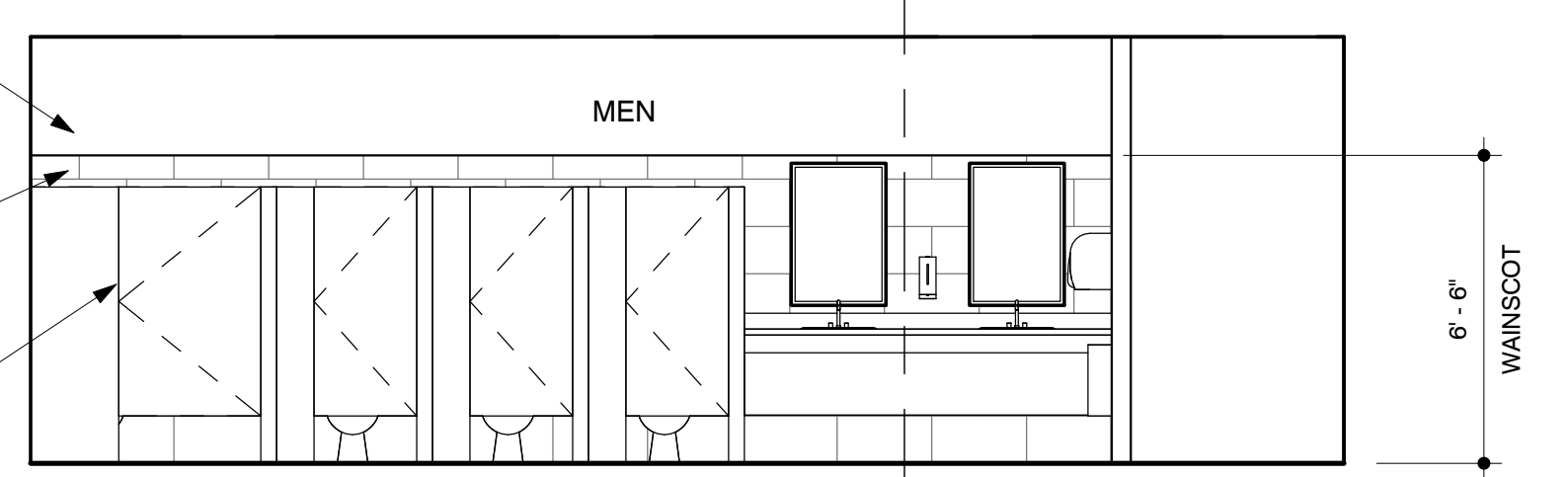
**5 INTERIOR ELEVATION**  
1/4" = 1'-0"



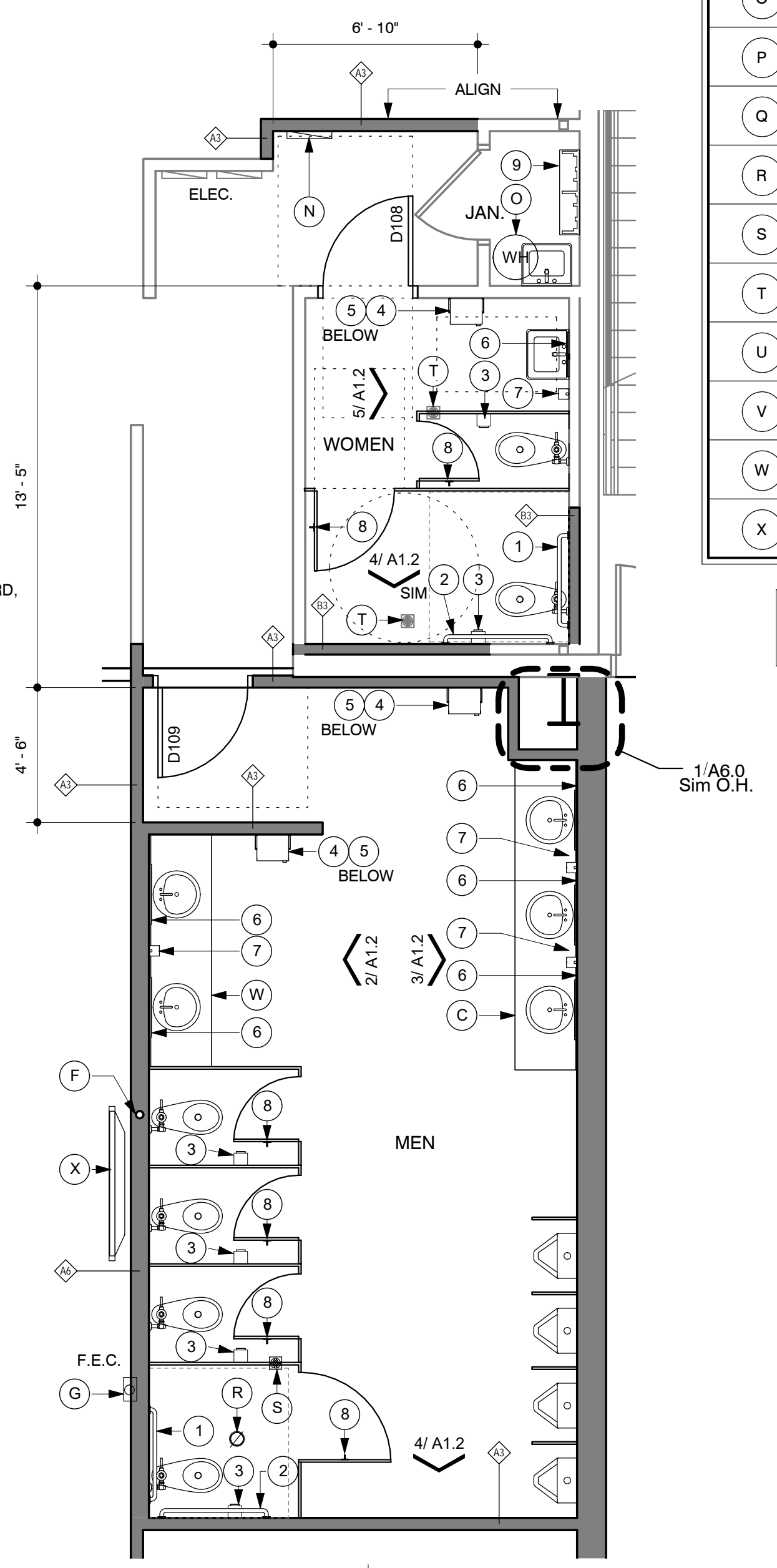
**4 INTERIOR ELEVATION**  
1/4" = 1'-0"



**3 INTERIOR ELEVATION**  
1/4" = 1'-0"



**2 INTERIOR ELEVATION**  
1/4" = 1'-0"

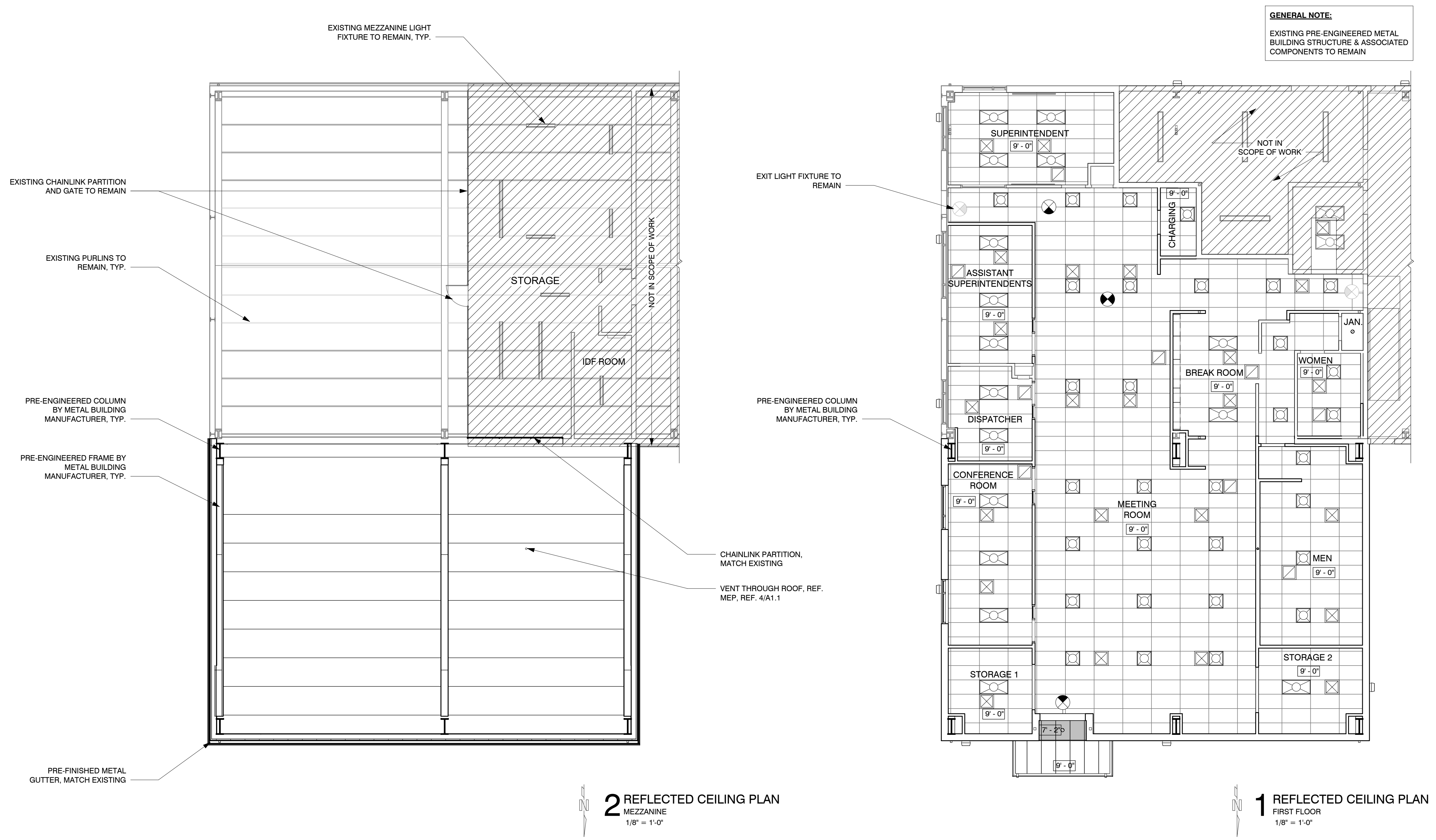


**1 ENLARGED PLAN**  
1/4" = 1'-0"

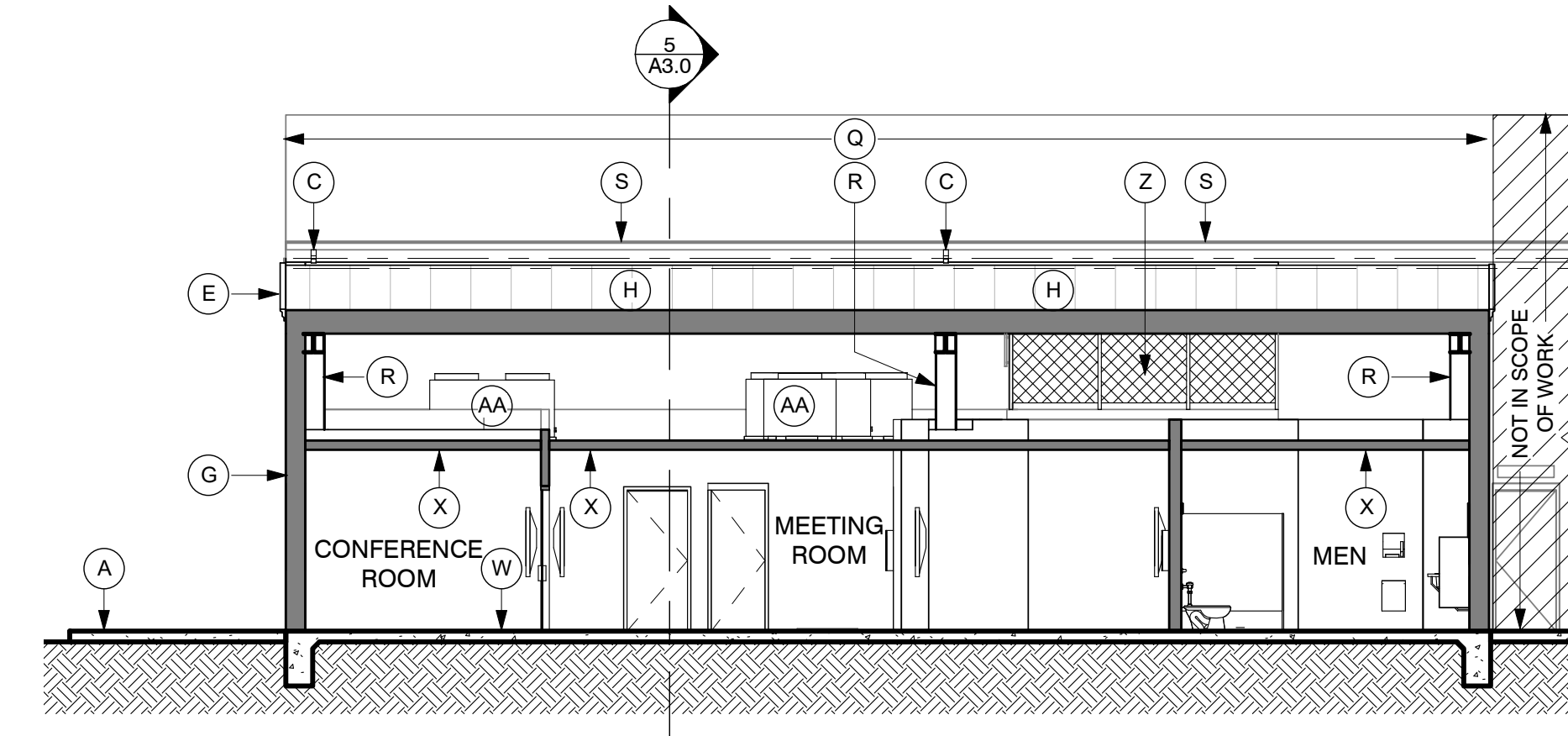


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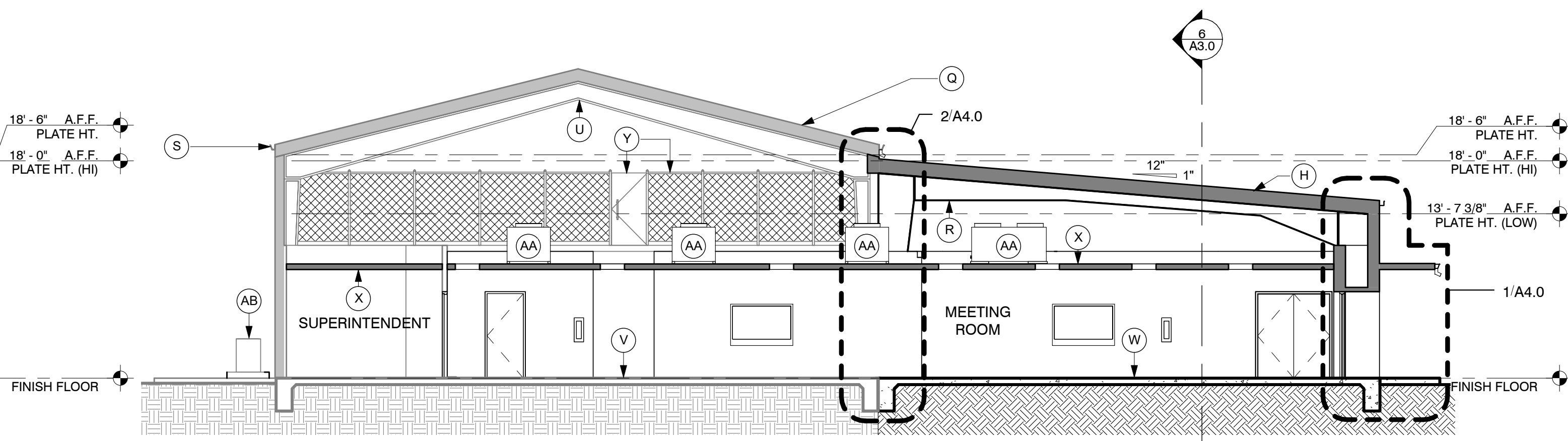
REFLECTED CEILING PLAN LEGEND	
	GYPSUM BOARD CEILING
	2' X 4' ACOUSTICAL TILE CEILING
	METAL PANEL CEILING
	INSULATED METAL PANEL CEILING
	RECESSED CAN LIGHT, REF. MEP
	WALL MOUNTED LIGHT, REF. MEP
	FLUORESCENT LIGHT 2' X 2', REF. MEP
	FLUORESCENT LIGHT 2' X 4', REF. MEP
	MECHANICAL AIR SUPPLY, REF. MEP
	MECHANICAL AIR RETURN, REF. MEP
	WALL MOUNTED EXIT LIGHT, REF. MEP
	CEILING MOUNTED EXIT LIGHT, REF. MEP



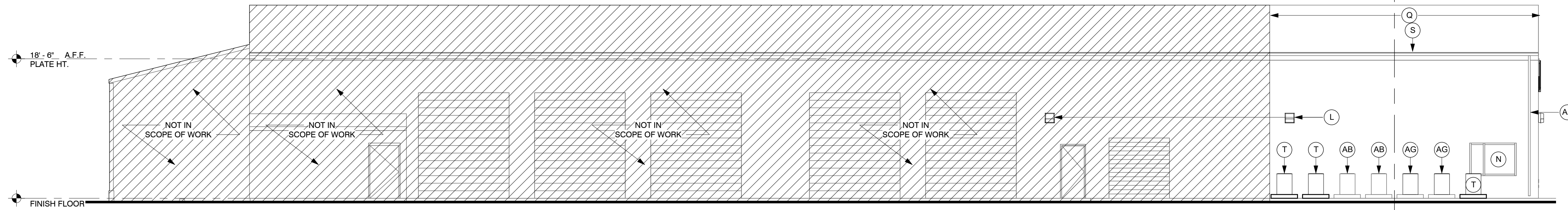
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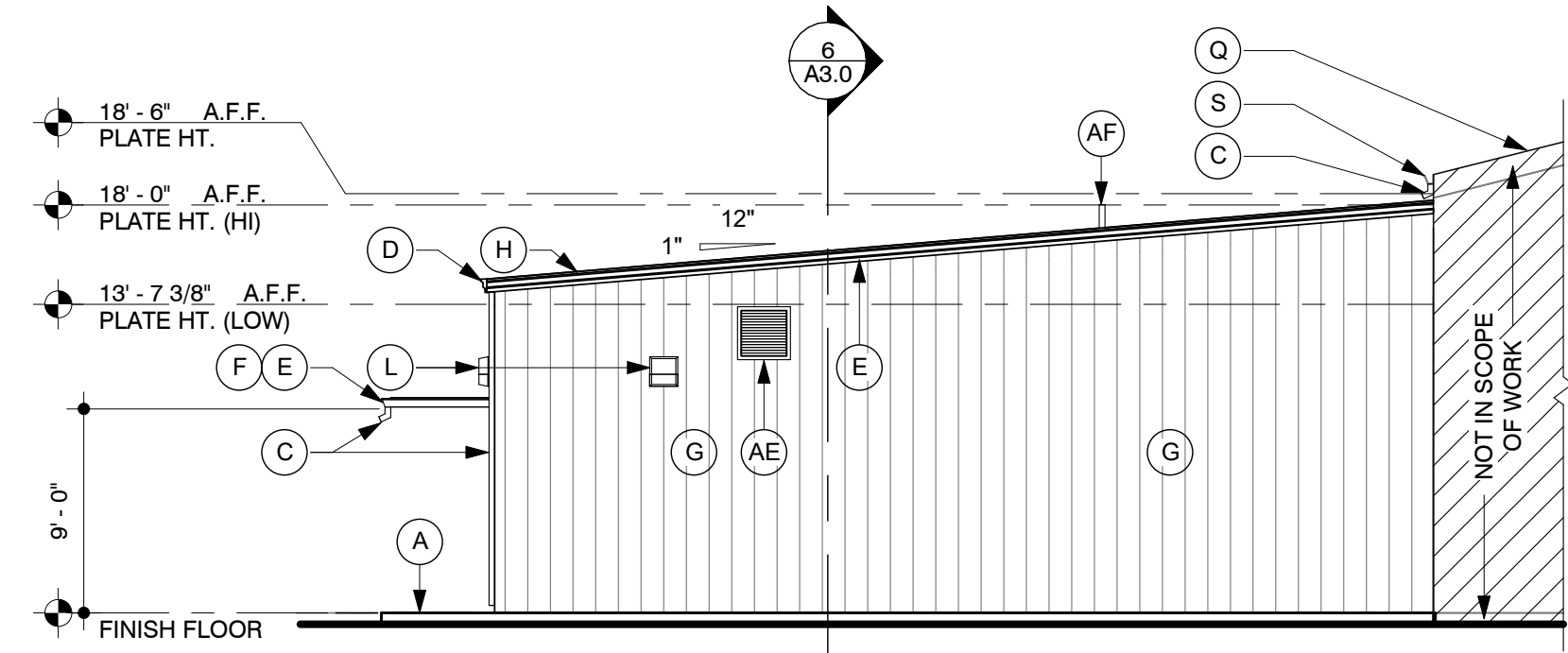
**6 BUILDING SECTION**  
1/8" = 1'-0"



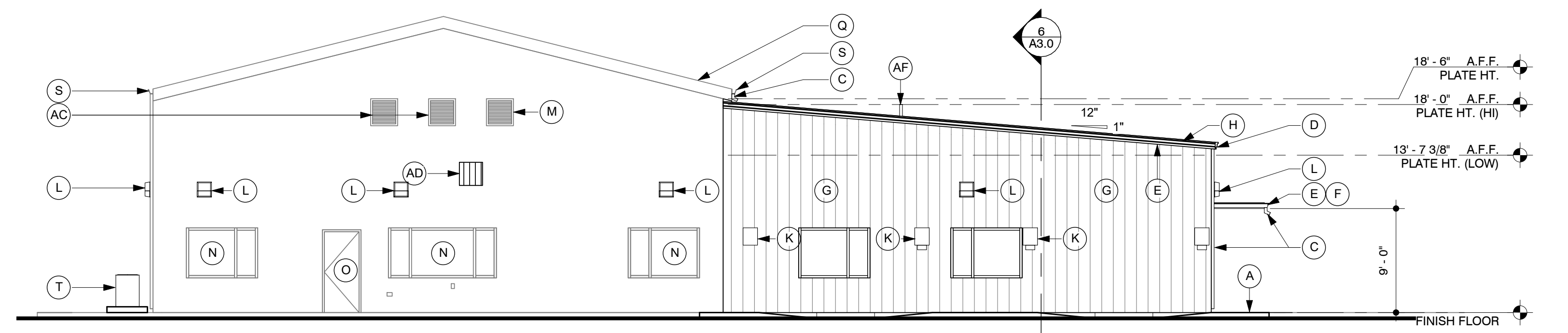
**5 BUILDING SECTION**  
1/8" = 1'-0"



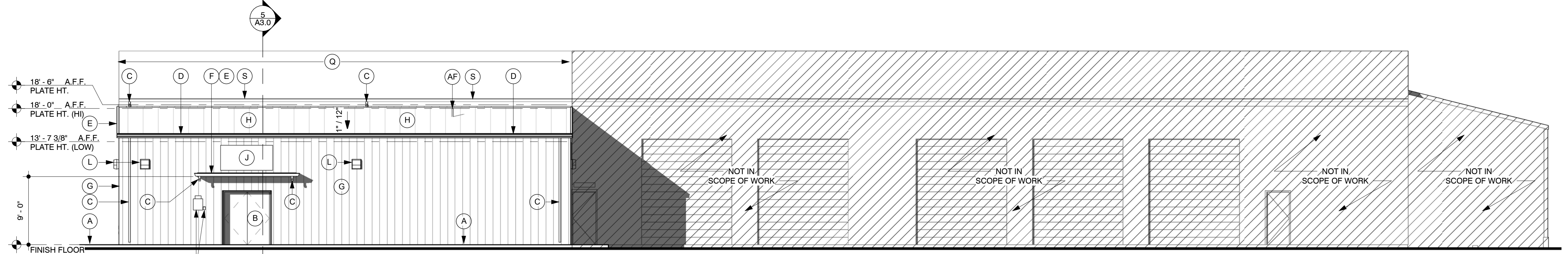
**4 EXTERIOR ELEVATION**  
SOUTH ELEVATION  
1/8" = 1'-0"



**3 EXTERIOR ELEVATION**  
WEST ELEVATION  
1/8" = 1'-0"



**2 EXTERIOR ELEVATION**  
EAST ELEVATION  
1/8" = 1'-0"



**1 EXTERIOR ELEVATION**  
NORTH ELEVATION  
1/8" = 1'-0"

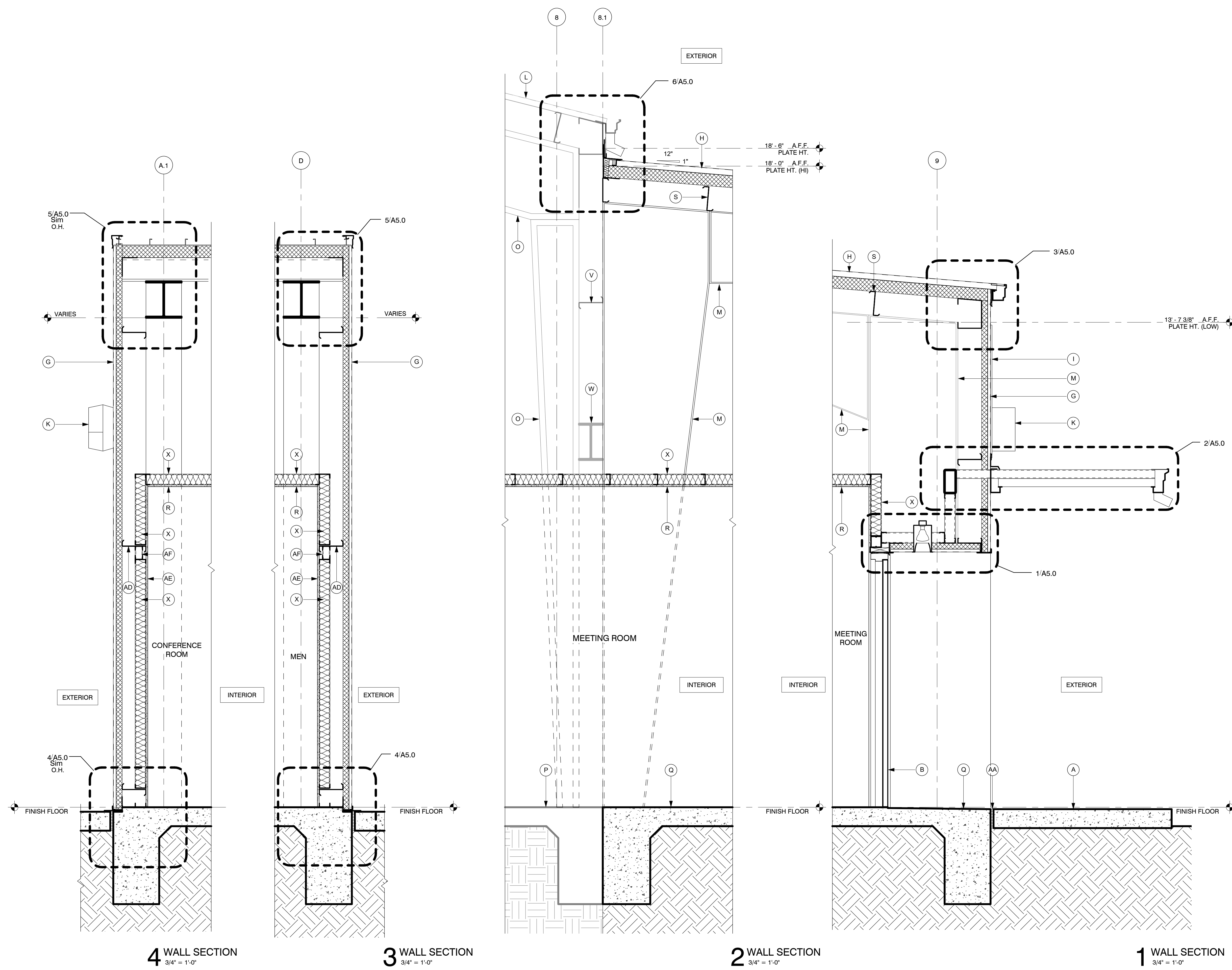
EXTERIOR ELEVATION & BUILDING SECTION KEY NOTES	
A	CONCRETE WALK. SLOPE TO DRAIN, REF. CIVIL
B	HOLLOW METAL DOOR & FRAME, PAINT TO MATCH EXISTING
C	PRE-FINISHED METAL DOWNSPOUT, MATCH EXISTING
D	PRE-FINISHED METAL GUTTER, MATCH EXISTING
E	PRE-FINISHED METAL FASCIA, MATCH EXISTING
F	CANTILEVER METAL CANOPY
G	PRE-FINISHED INSULATED METAL WALL PANEL BY METAL BUILDING MANUFACTURER, MATCH EXISTING
H	PRE-FINISHED INSULATED ROOF PANELS BY METAL BUILDING MANUFACTURER, MATCH EXISTING
I	KNOX BOX & ASSOCIATED SIGNAGE, COORDINATE WITH FIRE MARSHAL FOR FINAL LOCATION
J	RE-INSTALL BEXAR COUNTY PUBLIC WORKS SIGN
K	RE-INSTALL ACCESSIBLE PARKING SIGNAGE
L	LIGHT FIXTURE, REF. MEP
M	EXISTING VENT TO REMAIN
N	EXISTING WINDOW TO REMAIN
O	EXISTING DOOR & FRAME TO REMAIN
P	EXISTING LIGHT FIXTURE TO REMAIN
Q	EXISTING ROOF TO REMAIN
R	PRE-ENGINEERED FRAME BY METAL BUILDING MANUFACTURER
S	EXISTING GUTTER TO REMAIN
T	CONDENSING UNIT & PAD, REF. MEP
U	EXISTING PRE-ENGINEERED METAL BUILDING FRAME TO REMAIN
V	EXISTING CONCRETE FOUNDATION TO REMAIN
W	CONCRETE FOUNDATION, REF. STRUCTURAL
X	CEILING, REF. REFLECTED CEILING PLAN
Y	EXISTING CHAINLINK PARTITION AND GATE TO REMAIN
Z	CHAINLINK PARTITION, MATCH EXISTING
AA	AIR HANDLING UNIT, REF. MEP
AB	EXISTING CONDENSING UNIT & PAD TO REMAIN, REF. MEP
AC	CAP EXISTING VENT, REF. MEP
AD	INFILL WALL TO MATCH EXISTING, REF. MEP
AE	VENT, REF. MEP
AF	VENT THROUGH ROOF, REF. MEP, REF. 4/A1.1
AG	CONDENSING UNIT ON EXISTING PAD, REF. MEP
AH	EXISTING DOWNSPOUT TO REMAIN

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 09/30/2021

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 9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223


Project NO. 21014  
 Date: 09/30/2021  
 Revisions:  
**A3.0**  
 EXTERIOR ELEVATIONS AND BUILDING SECTIONS

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WALL SECTION & SECTION DETAIL KEY NOTES	
(A)	CONCRETE WALK. SLOPE TO DRAIN, REF. CIVIL
(B)	DOOR & FRAME, PAINT. REF. DOOR SCHEDULE
(C)	PRE-FINISHED METAL DOWNSPOUT, MATCH EXISTING
(D)	PRE-FINISHED METAL GUTTER, MATCH EXISTING
(E)	PRE-FINISHED METAL FASCIA, MATCH EXISTING
(F)	CANTILEVER METAL CANOPY
(G)	PRE-FINISHED INSULATED METAL WALL PANEL BY METAL BUILDING MANUFACTURER, MATCH EXISTING
(H)	PRE-FINISHED INSULATED ROOF PANELS BY METAL BUILDING MANUFACTURER, MATCH EXISTING
(I)	RE-INSTALL BEXAR COUNTY PUBLIC WORKS SIGN
(J)	EXISTING METAL WALL PANEL TO REMAIN
(K)	LIGHT FIXTURE, REF. MEP
(L)	EXISTING ROOF TO REMAIN
(M)	PRE-ENGINEERED FRAME BY METAL BUILDING MANUFACTURER
(N)	EXISTING GUTTER TO REMAIN
(O)	EXISTING PRE-ENGINEERED METAL BUILDING FRAME TO REMAIN
(P)	EXISTING CONCRETE FOUNDATION TO REMAIN
(Q)	CONCRETE FOUNDATION, REF. STRUCTURAL
(R)	CEILING, REF. REFLECTED CEILING PLAN
(S)	PURLIN BY METAL BUILDING MANUFACTURER
(T)	EAVE STRUT BY METAL BUILDING MANUFACTURER
(U)	STEEL TUBE, REF. STRUCTURAL
(V)	EXISTING PURLIN TO REMAIN
(W)	EXISTING BEAM TO REMAIN
(X)	3-5/8" METAL STUDS @ 16" O.C. WITH BATT INSULATION
(Y)	3-5/8" METAL STUDS @ 16" O.C.
(Z)	EXISTING EAVE STRUT TO REMAIN
(AA)	EXPANSION JOINT
(AB)	GABLE ANGLE BY METAL BUILDING MANUFACTURER
(AC)	RAKE TRIM BY METAL BUILDING MANUFACTURER
(AD)	GIRT BY METAL BUILDING MANUFACTURER
(AE)	5/8" TYPE "X" GYPSUM BOARD, PAINT
(AF)	2-1/2" METAL STUDS @ 16" O.C.
(AG)	PRE-FINISHED EDGE TRIM
(AH)	WOOD BLOCKING
(AI)	METAL FLASHING
(AJ)	BACKER ROD & SEALANT, PAINT BOTH SIDES
(AK)	NOT USED
(AL)	SEALANT
(AM)	EAVE TRIM
(AN)	BASE/EDGE COVER TRIM
(AO)	TRANSITION TRIM
(AP)	CLOSURE TRIM
(AQ)	RIDGE CLOSURE, WITH SEALANT TAPE AND END LAP SEALANT TAPE
(AR)	LOOSE FILL INSULATION

  
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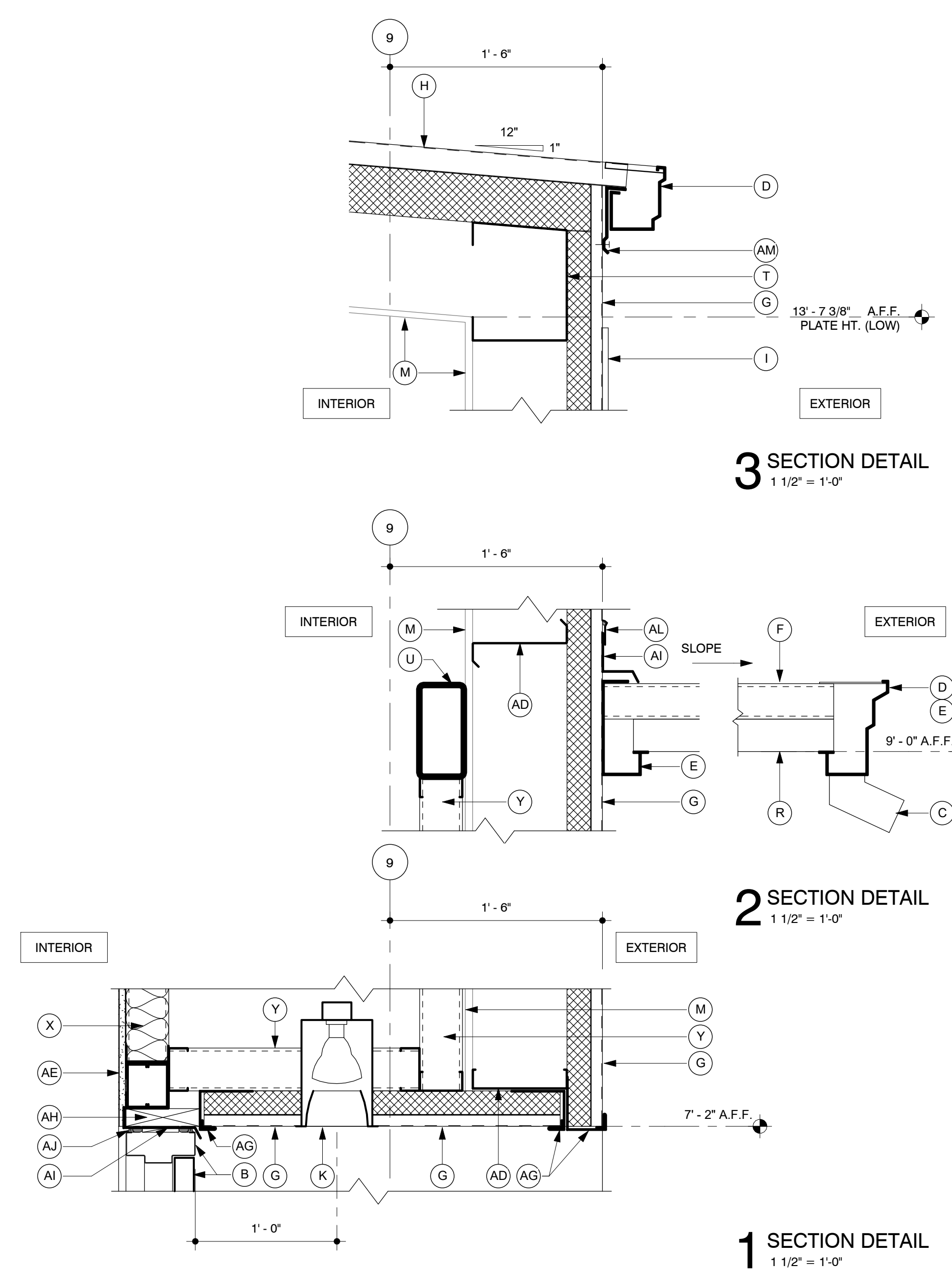
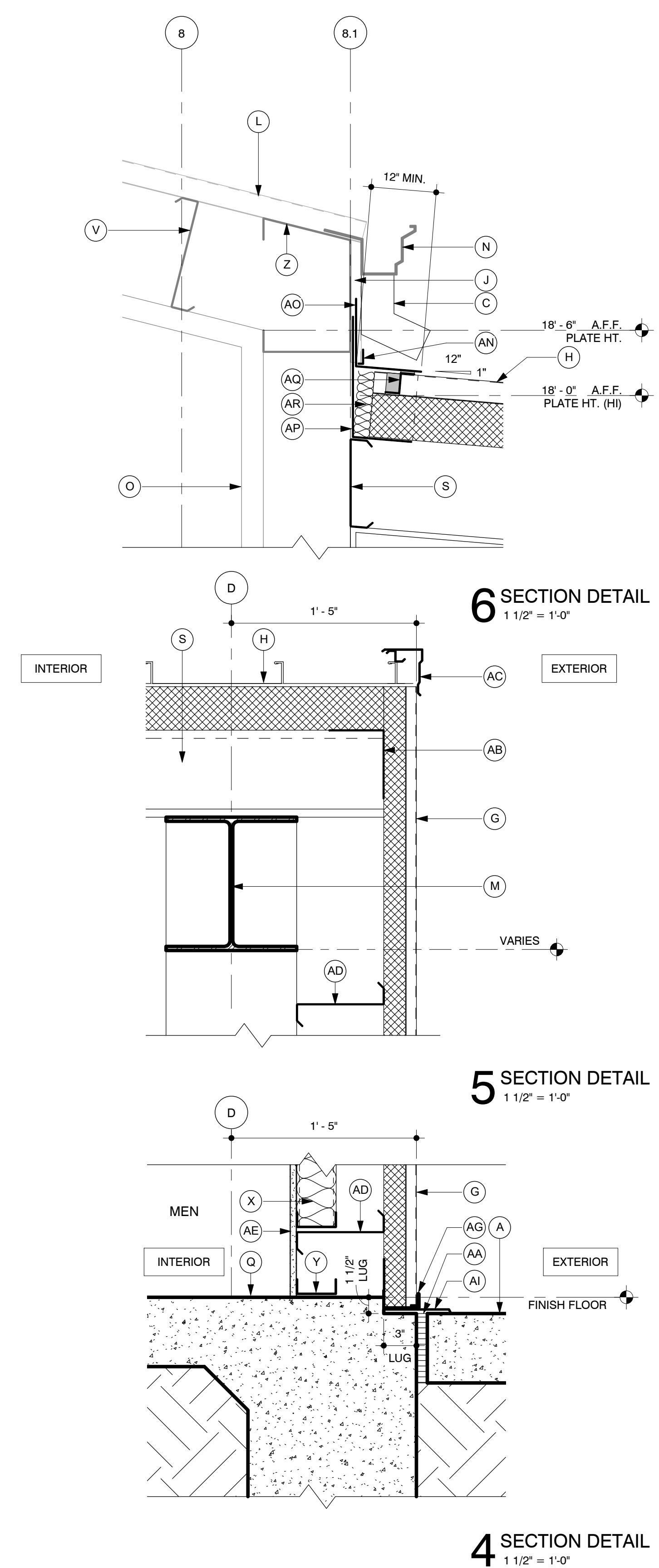
  
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 9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

Project NO. 21014  
 Date: 09/30/2021  
 Revisions:

  
 WALL SECTIONS

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WALL SECTION & SECTION DETAIL KEY NOTES	
(A)	CONCRETE WALK. SLOPE TO DRAIN, REF. CIVIL
(B)	DOOR & FRAME, PAINT, REF. DOOR SCHEDULE
(C)	PRE-FINISHED METAL DOWNSPOUT, MATCH EXISTING
(D)	PRE-FINISHED METAL GUTTER, MATCH EXISTING
(E)	PRE-FINISHED METAL FASCIA, MATCH EXISTING
(F)	CANTILEVER METAL CANOPY
(G)	PRE-FINISHED INSULATED METAL WALL PANEL BY METAL BUILDING MANUFACTURER, MATCH EXISTING
(H)	PRE-FINISHED INSULATED ROOF PANELS BY METAL BUILDING MANUFACTURER, MATCH EXISTING
(I)	RE-INSTALL BEXAR COUNTY PUBLIC WORKS SIGN
(J)	EXISTING METAL WALL PANEL TO REMAIN
(K)	LIGHT FIXTURE, REF. MEP
(L)	EXISTING ROOF TO REMAIN
(M)	PRE-ENGINEERED FRAME BY METAL BUILDING MANUFACTURER
(N)	EXISTING GUTTER TO REMAIN
(O)	EXISTING PRE-ENGINEERED METAL BUILDING FRAME TO REMAIN
(P)	EXISTING CONCRETE FOUNDATION TO REMAIN
(Q)	CONCRETE FOUNDATION, REF. STRUCTURAL
(R)	CEILING, REF. REFLECTED CEILING PLAN
(S)	PURLIN BY METAL BUILDING MANUFACTURER
(T)	EAVE STRUT BY METAL BUILDING MANUFACTURER
(U)	STEEL TUBE, REF. STRUCTURAL
(V)	EXISTING PURLIN TO REMAIN
(W)	EXISTING BEAM TO REMAIN
(X)	3-5/8" METAL STUDS @ 16" O.C. WITH BATT INSULATION
(Y)	3-5/8" METAL STUDS @ 16" O.C.
(Z)	EXISTING EAVE STRUT TO REMAIN
(AA)	EXPANSION JOINT
(AB)	GABLE ANGLE BY METAL BUILDING MANUFACTURER
(AC)	RAKE TRIM BY METAL BUILDING MANUFACTURER
(AD)	GIRT BY METAL BUILDING MANUFACTURER
(AE)	5/8" TYPE "X" GYPSUM BOARD, PAINT
(AF)	2-1/2" METAL STUDS @ 16" O.C.
(AG)	PRE-FINISHED EDGE TRIM
(AH)	WOOD BLOCKING
(AI)	METAL FLASHING
(AJ)	BACKER ROD & SEALANT, PAINT BOTH SIDES
(AK)	NOT USED
(AL)	SEALANT
(AM)	EAVE TRIM
(AN)	BASE/EDGE COVER TRIM
(AO)	TRANSITION TRIM
(AP)	CLOSURE TRIM
(AQ)	RIDGE CLOSURE, WITH SEALANT TAPE AND END LAP SEALANT TAPE
(AR)	LOOSE FILL INSULATION

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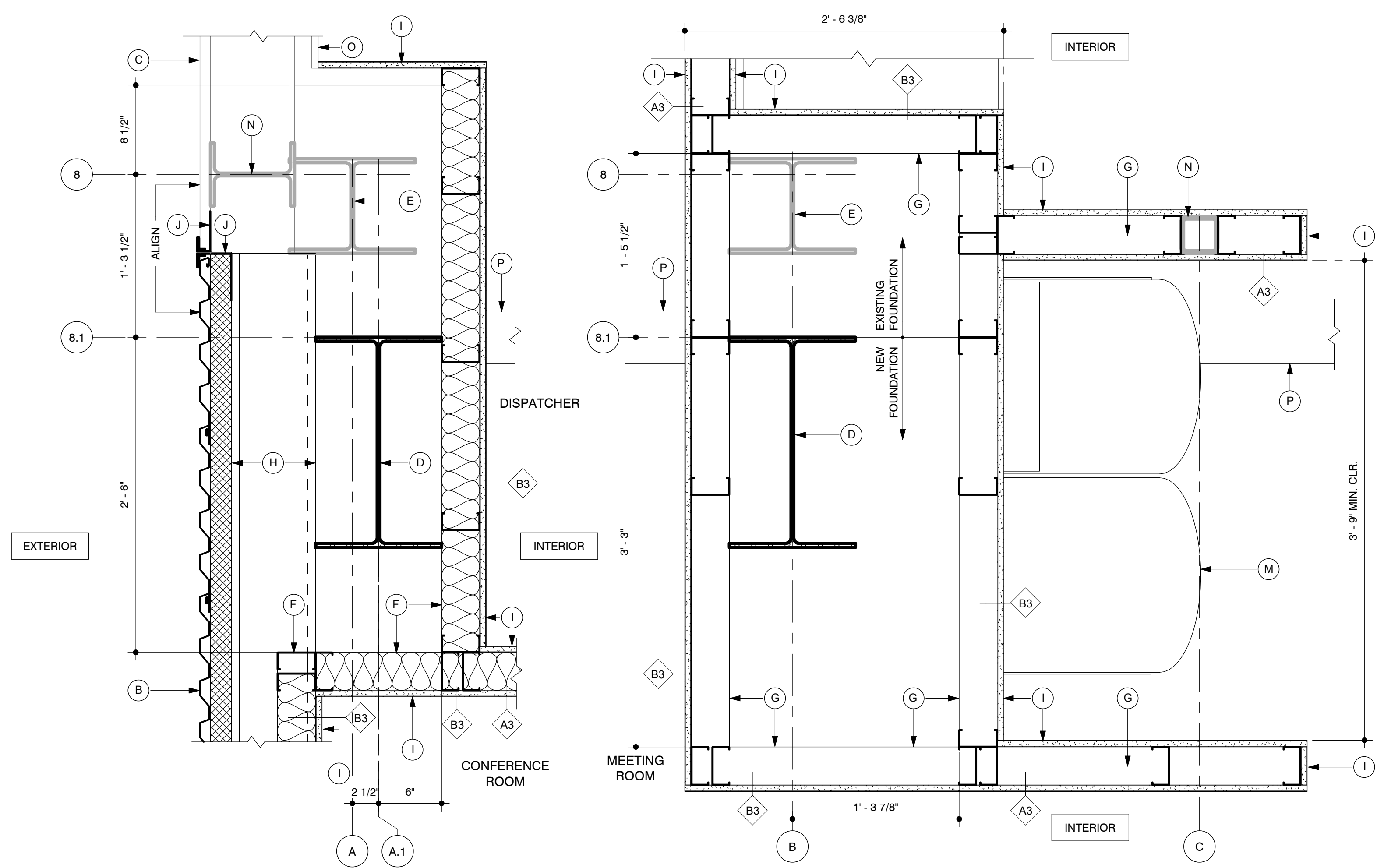
09/30/2021

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 9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

Project NO. 21014  
 Date: 09/30/2021  
 Revisions:

**A5.0**  
 SECTION DETAIL

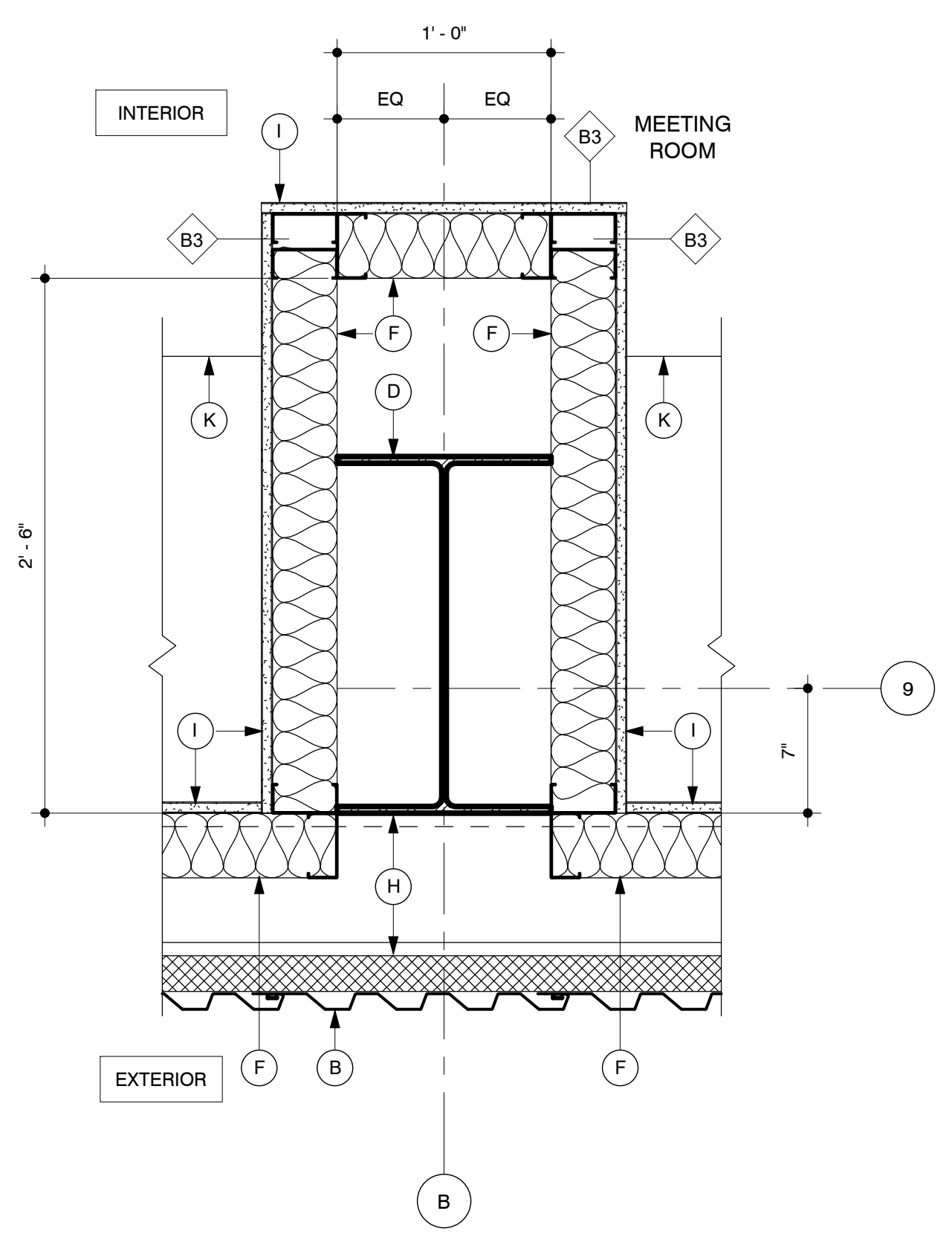
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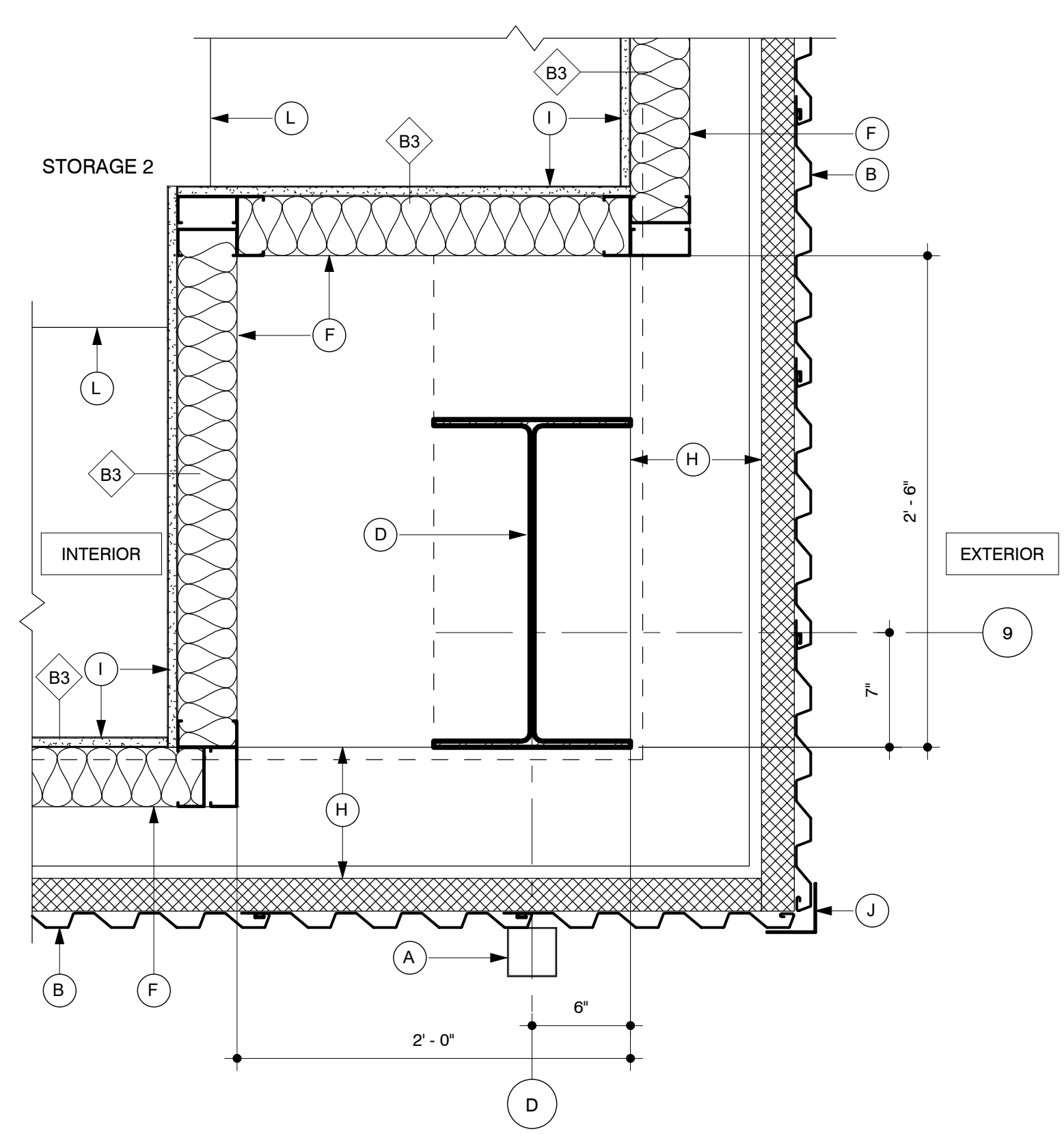
PLAN DETAILS KEY NOTES	
(A)	PRE-FINISHED METAL DOWNSPOUT, MATCH EXISTING
(B)	PRE-FINISHED INSULATED METAL WALL PANEL BY METAL BUILDING MANUFACTURER, MATCH EXISTING
(C)	EXISTING METAL WALL PANEL
(D)	PRE-ENGINEERED FRAME BY METAL BUILDING MANUFACTURER
(E)	EXISTING PRE-ENGINEERED METAL BUILDING FRAME TO REMAIN
(F)	3-5/8" METAL STUDS @ 16" O.C. WITH BATT INSULATION
(G)	3-5/8" METAL STUDS @ 16" O.C.
(H)	GIRT BY METAL BUILDING MANUFACTURER
(I)	5/8" TYPE "X" GYPSUM BOARD, PAINT
(J)	PRE-FINISHED EDGE TRIM
(K)	24" DEEP COUNTERTOP
(L)	24" DEEP SHELVES
(M)	DRINKING FOUNTAIN, REF. MEP
(N)	EXISTING COLUMN TO REMAIN
(O)	EXISTING GYPSUM BOARD, PAINT
(P)	FURNISH & INSTALL FLOOR THRESHOLD WHERE EXISTING & NEW FOUNDATIONS TIE-IN, REF. SPECS

**4 PLAN DETAIL**  
1 1/2" = 1'-0"

**3 PLAN DETAIL**  
1 1/2" = 1'-0"



**2 PLAN DETAIL**  
1 1/2" = 1'-0"



**1 PLAN DETAIL**  
1 1/2" = 1'-0"

**SLAY**  
ARCHITECTURE

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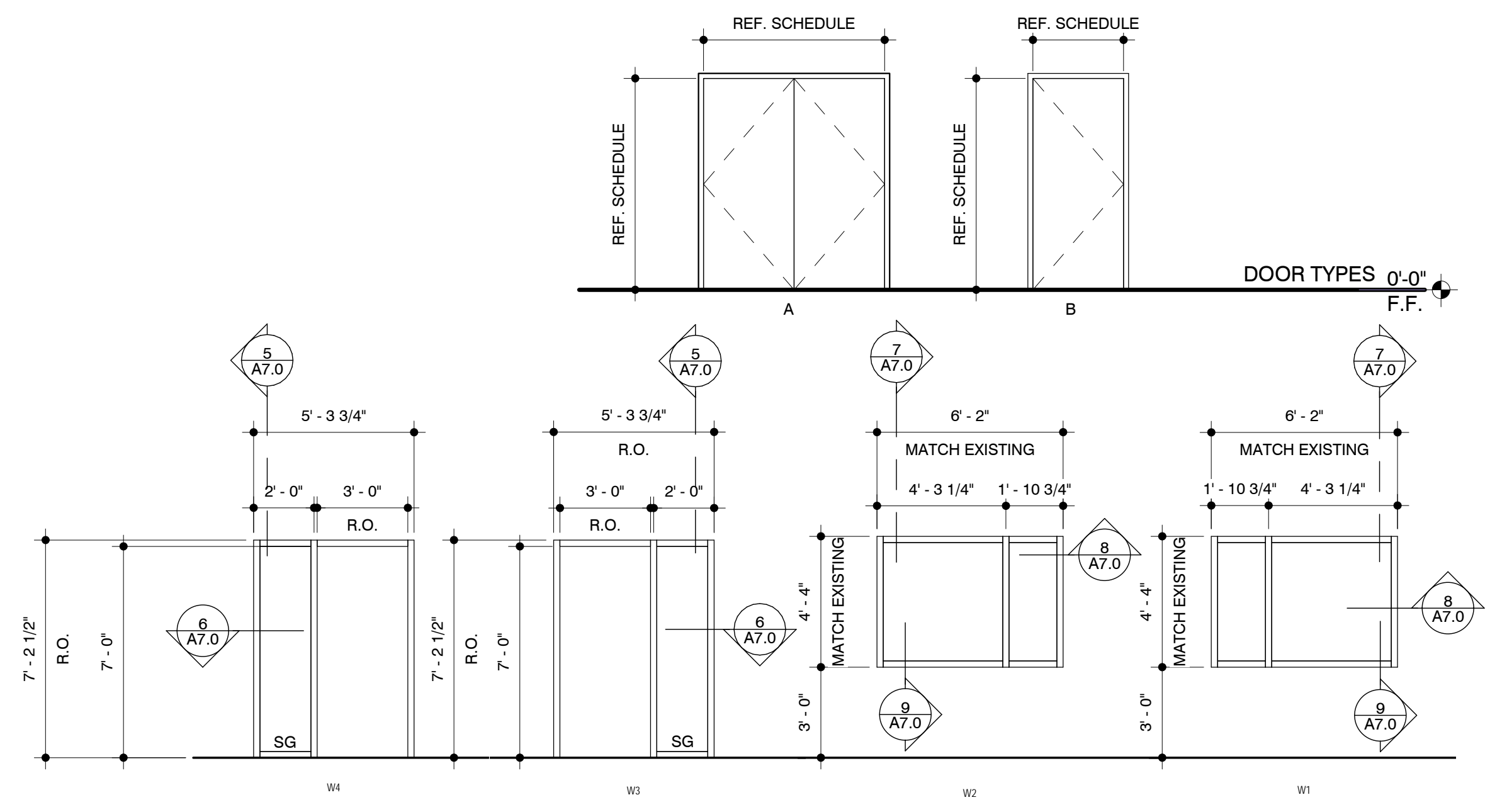
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**A6.0**  
 PLAN DETAIL

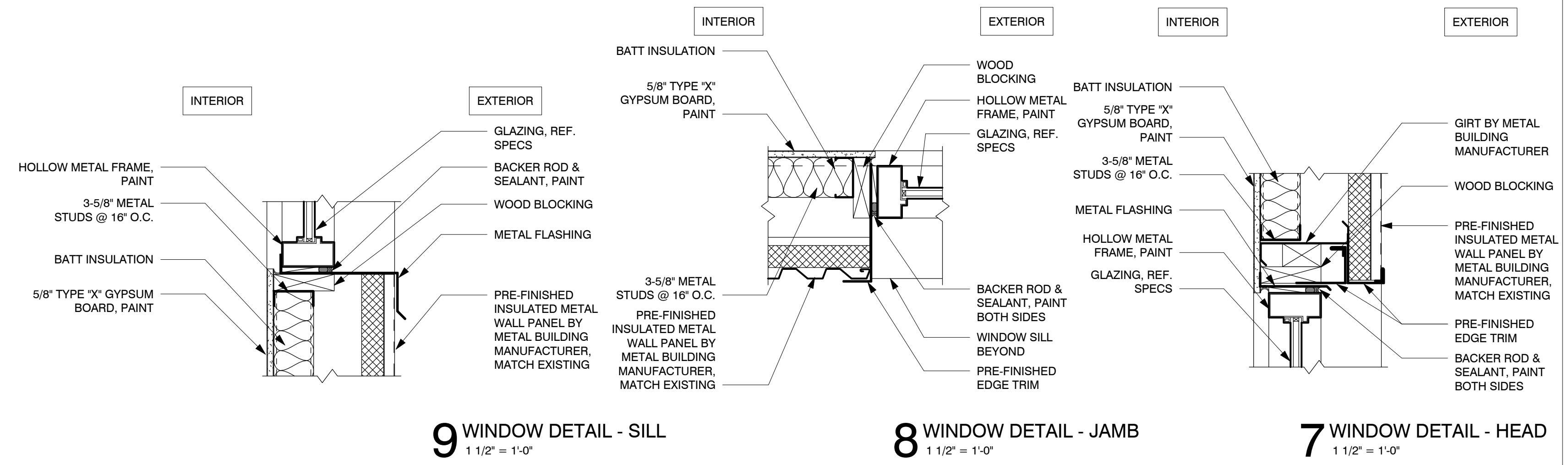
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DOOR SCHEDULE															
DR		DOOR				ELEVATIO N	GLAZING	FRAME		DETAILS			FIRE RATING	HARDWA RE	REMARKS
		WIDTH	HEIGHT	TYPE	FINISH			TYPE	FINISH	HEAD	JAMB	SILL			
D101	PAIR	3'-0"	7'-0"	HM	PAINT	A	NONE	HM	PAINT	1/A5.0	2/A7.0	1/A7.0	NR	SET #X	PAINT TO MATCH EXISTING
D102	PAIR	3'-0"	7'-0"	WD	STAIN	A	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D103	-	3'-0"	7'-0"	WD	STAIN	B	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D104	-	3'-0"	7'-0"	WD	STAIN	B	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D105	-	3'-0"	7'-0"	WD	STAIN	B	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D106	-	3'-0"	7'-0"	WD	STAIN	B	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D107	-	3'-0"	7'-0"	WD	STAIN	B	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D108	-	3'-0"	7'-0"	WD	STAIN	B	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D109	-	3'-0"	7'-0"	WD	STAIN	B	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D110	PAIR	3'-0"	7'-0"	WD	STAIN	A	NONE	HM	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	
D111	-	3'-0"	7'-0"	WD	STAIN	B	NONE	EXISTING	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	EXISTING DOOR FRAME TO REMAIN
D112	-	2'-8"	7'-0"	WD	STAIN	B	NONE	EXISTING	PAINT	3/A7.0	4/A7.0	-	NR	SET #X	EXISTING DOOR FRAME TO REMAIN



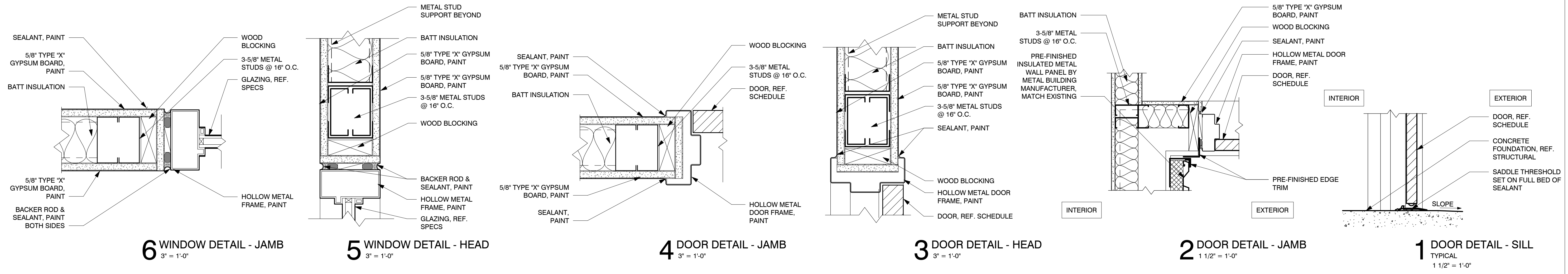
WINDOW ELEVATIONS  
1/4" = 1'-0"



9 WINDOW DETAIL - SILL  
1 1/2" = 1'-0"

8 WINDOW DETAIL - JAMB  
1 1/2" = 1'-0"

7 WINDOW DETAIL - HEAD  
1 1/2" = 1'-0"



6 WINDOW DETAIL - JAMB  
3" = 1'-0"

5 WINDOW DETAIL - HEAD  
3" = 1'-0"

4 DOOR DETAIL - JAMB  
3" = 1'-0"

3 DOOR DETAIL - HEAD  
3" = 1'-0"

2 DOOR DETAIL - JAMB  
1 1/2" = 1'-0"

1 DOOR DETAIL - SILL  
1 1/2" = 1'-0"

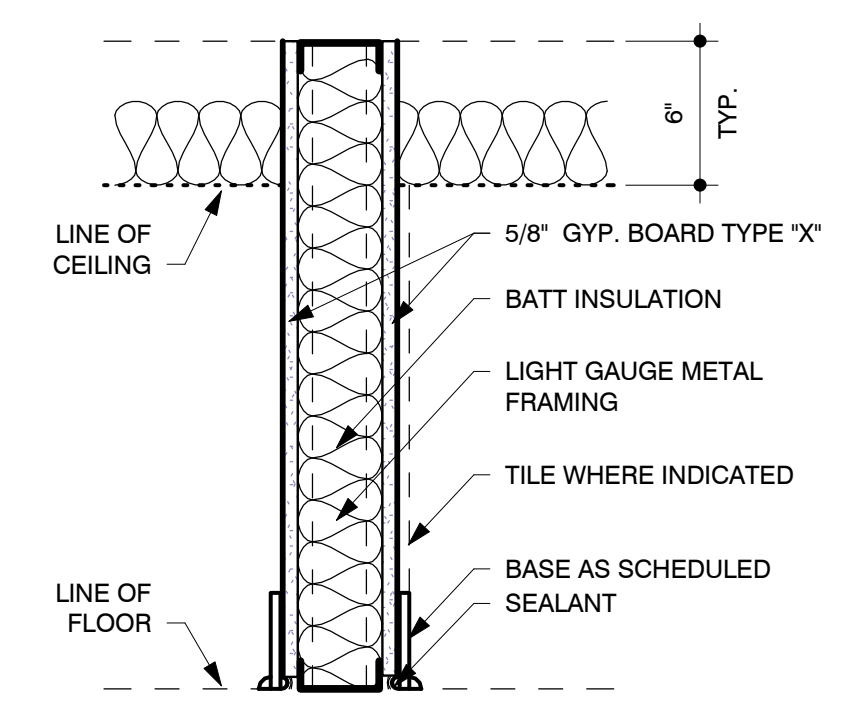
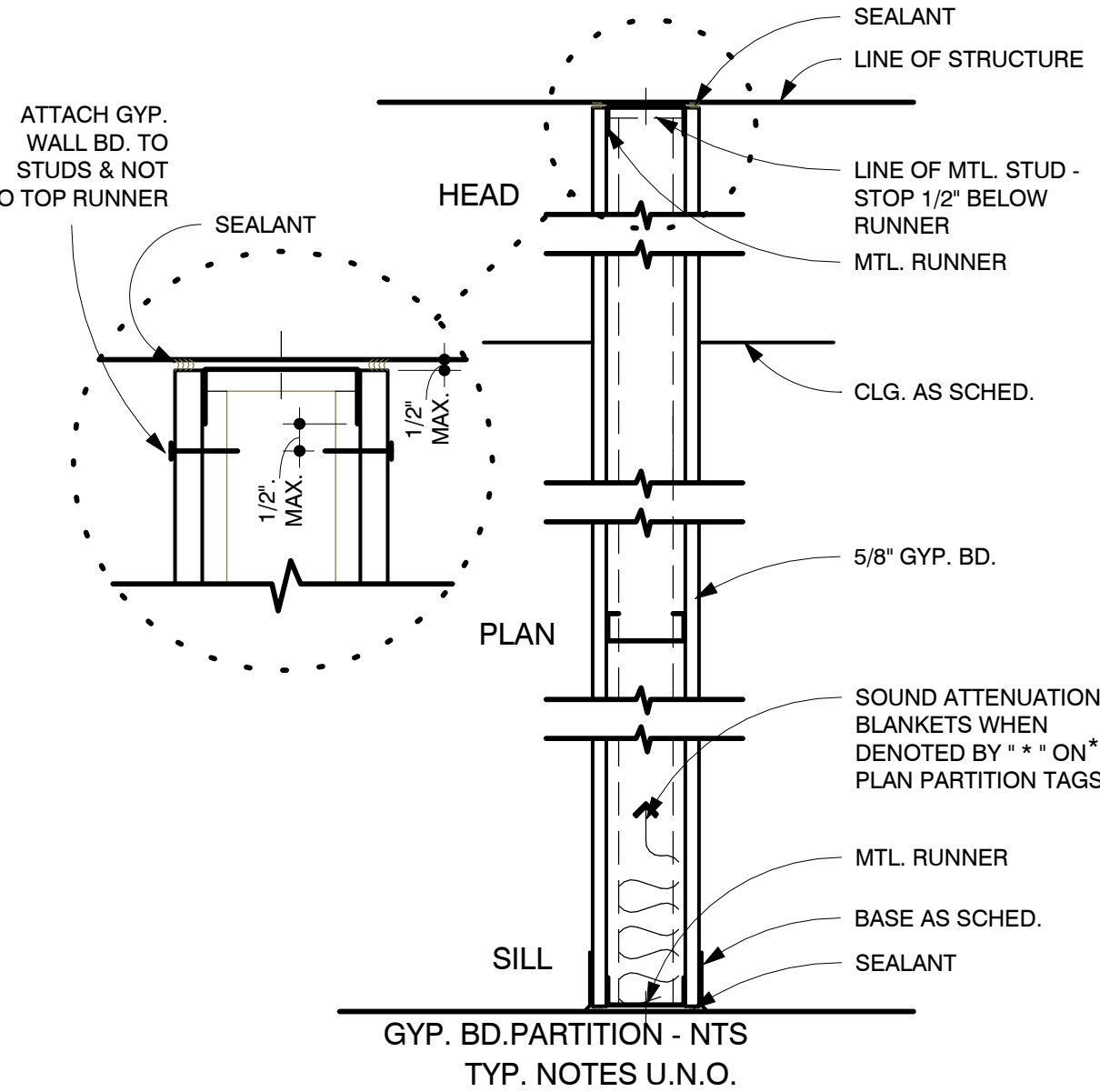
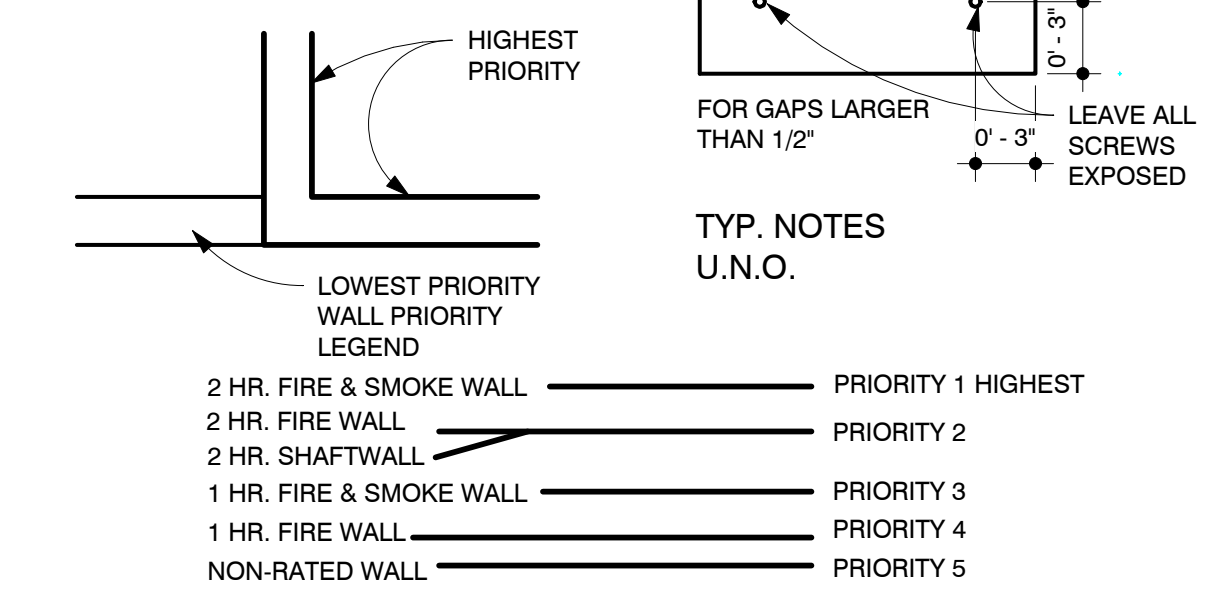
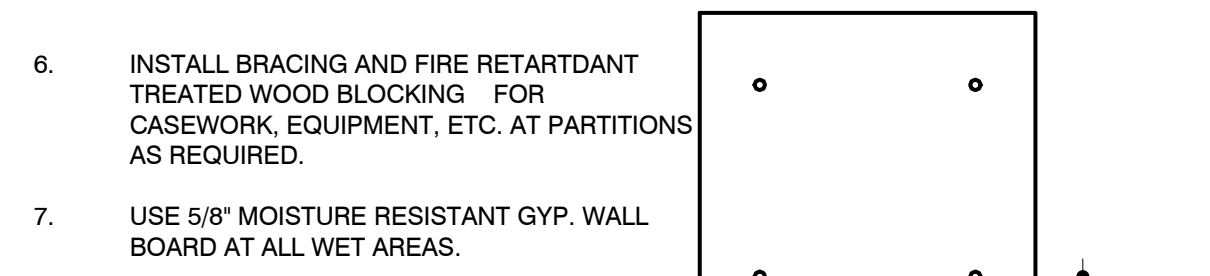
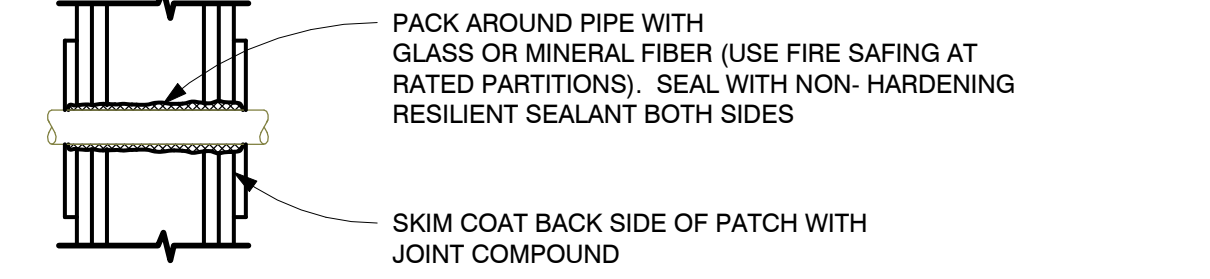
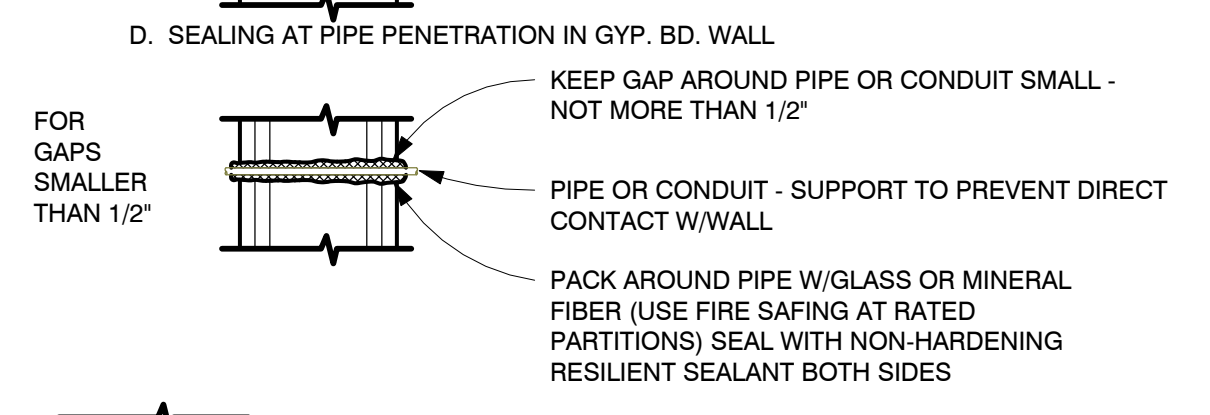
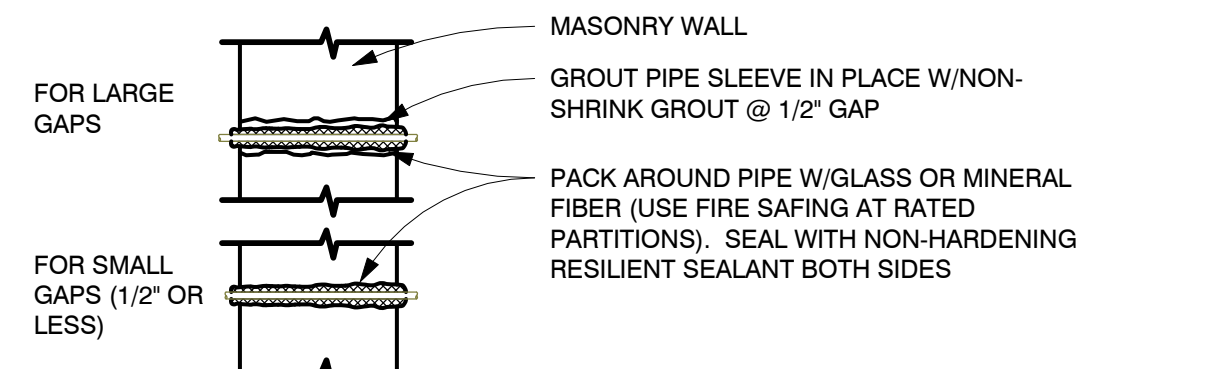
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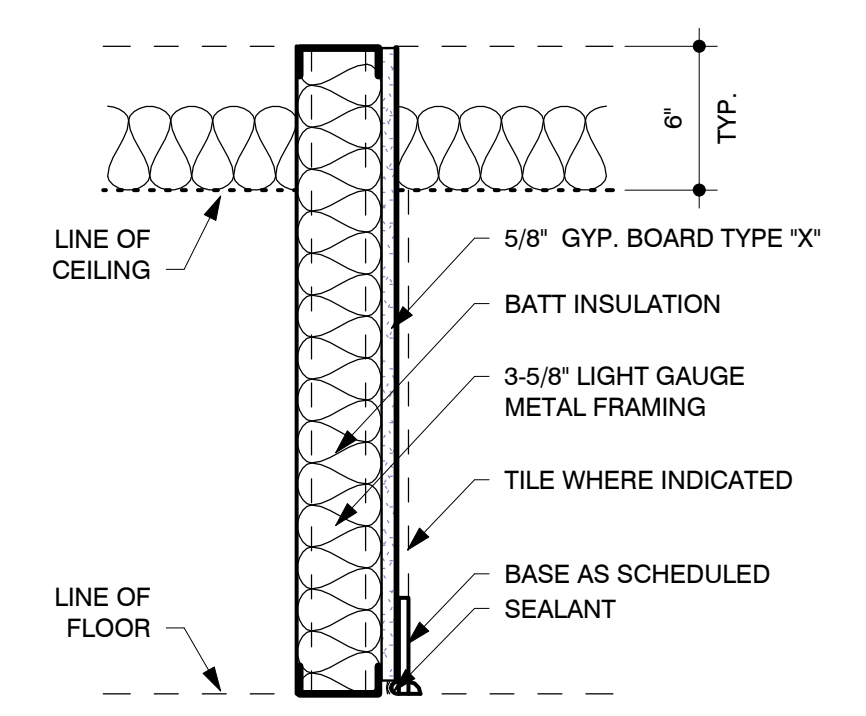
**A7.0**  
 DOOR SCHEDULE, DOOR  
 DETAILS, AND WINDOW  
 ELEVATIONS

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- GENERAL:**
- REFER TO PLANS FOR LOCATION OF PARTITION TYPES; REFER TO WALL PRIORITY LEGEND BELOW FOR CONDITIONS WHERE RATED PARTITIONS INTERSECT NON-RATED PARTITIONS. PARTITION TYPE 'A' IS THE DEFAULT - USE UNLESS NOTED OTHERWISE. "LINE OF STRUCTURE" INDICATED AT HEAD CONDITIONS FOR EACH PARTITION TYPE IS:
    - TERMINATE FIRE RATED PARTITIONS AT STRUCTURAL MEMBERS WITH A RATING GREATER THAN OR EQUAL TO THE PARTITION.
    - INSTALL FRAMING AND GYP. BD. TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS TO MAINTAIN THE FIRE RESISTANCE RATING.
    - TERMINATE NON-RATED PARTITIONS AT STRUCTURAL MEMBERS WITH A CONT. LAYER OF GYP. BD. TO MAINTAIN ACOUSTICAL, SMOKE, OR OTHER BARRIERS.
  - STOP STUDS AND GYP. BD. 1/2" BELOW LINE OF STRUCTURE AND SEAL.
    - FIRE RESISTANCE RATED PARTITIONS SHALL BE INSTALLED WITH FIRESTOP SEALANT UNLESS NOTED OTHERWISE.
    - NON-RATED PARTITIONS SHALL BE INSTALLED WITH ACOUSTICAL SEALANT UNLESS NOTED OTHERWISE.
    - ALL OTHER PARTITIONS SHALL BE INSTALLED WITH SEALANT AS SCHED.
  - REFER TO SPECIFICATION SCHEDULE FOR STUD SPACING AND LIMITING HEIGHTS FOR GYPSUM BOARD ASSEMBLIES.
  - ACOUSTICAL NOTES:
    - \*\* ON PLAN PARTITION TAGS INDICATES PARTITIONS TO BE INSTALLED WITH SOUND ATTEN. BLANKETS, EXTEND SOUND ATTEN. BLANKETS FULL HEIGHT OF PARTITION
    - PROVIDE 2 STUDS BETWEEN PENETRATIONS (OUTLETS) ON OPPOSITE SIDES OF ACOUSTICALLY IMPROVED WALLS. SEAL PERIMETER OF EACH OUTLET WITH ACOUSTICAL SEALANT AND SEAL BACK OF OUTLET WITH OUTLET BOX PADS. SEALING AT PIPE PENETRATION IN MASONRY WALL:



FLOOR PLAN DESIGNATION	STUD WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	REMARKS
A3	3 - 5/8"	4 - 7/8"	N/A	N/A	NOTE
A6	6"	7 - 1/4"	N/A	N/A	NOTE

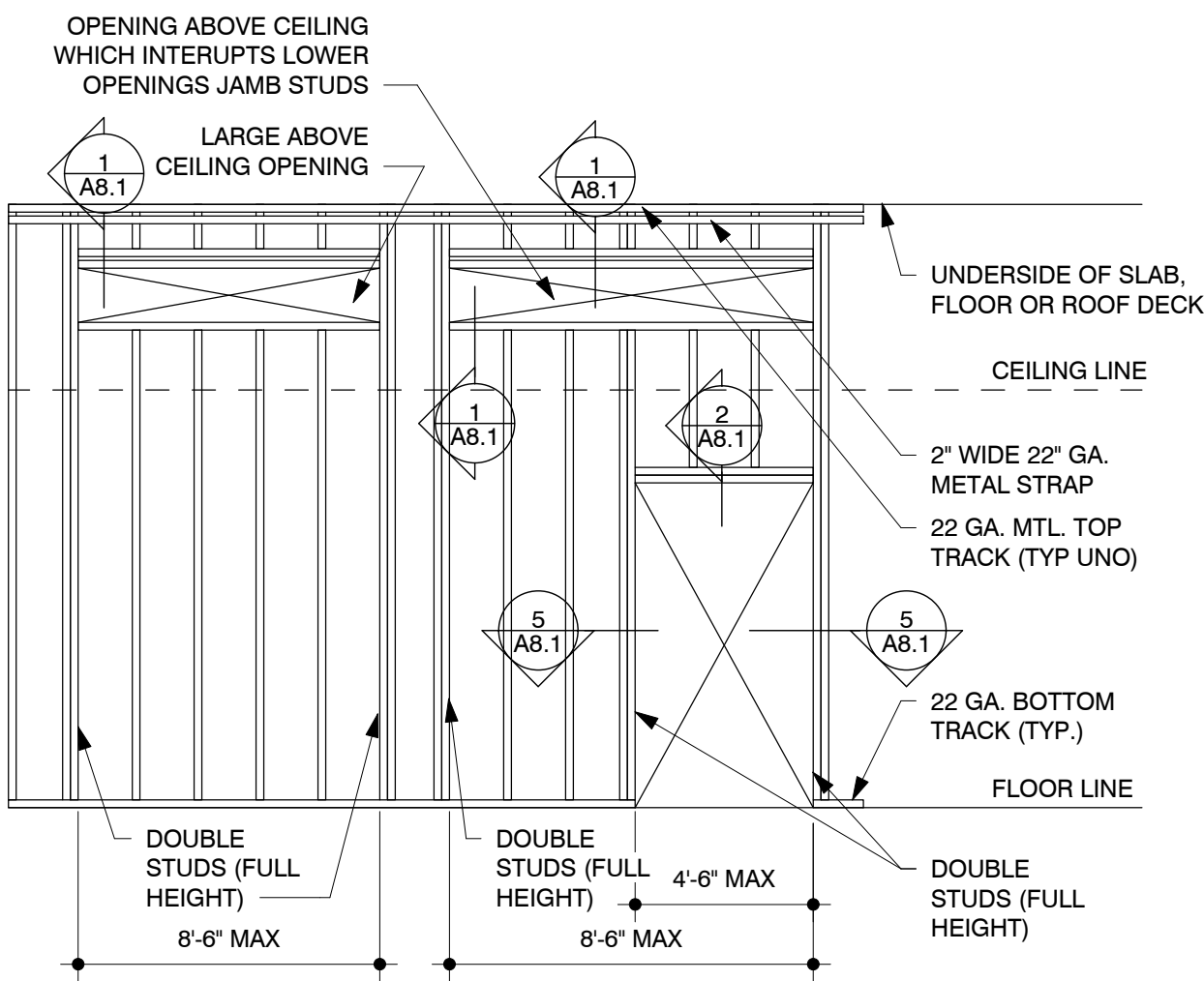
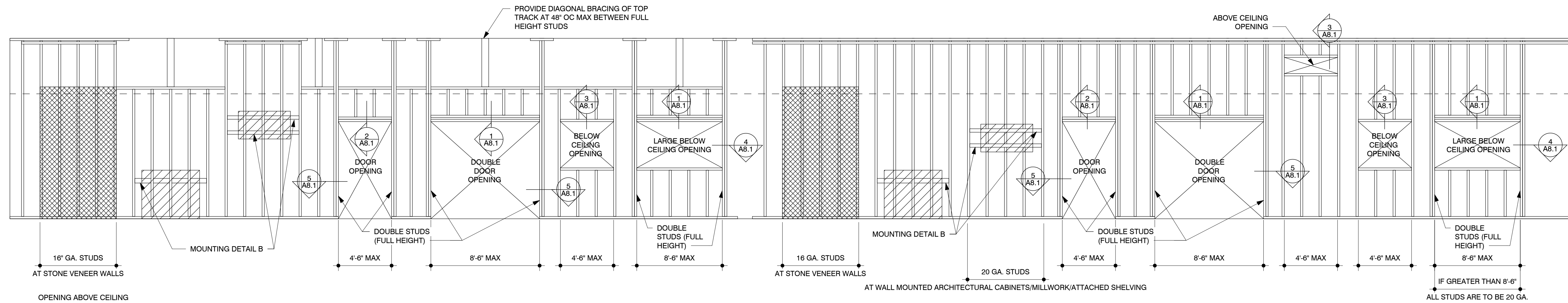


FLOOR PLAN DESIGNATION	STUD WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	REMARKS
B3	3 - 5/8"	4 - 1/4"	N/A	N/A	NOTE

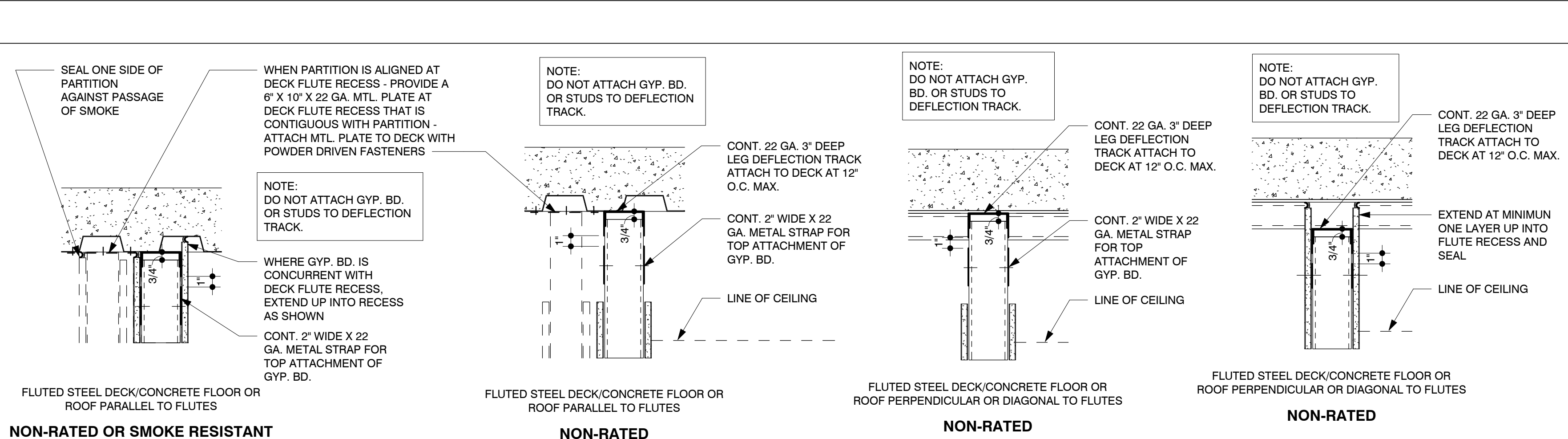


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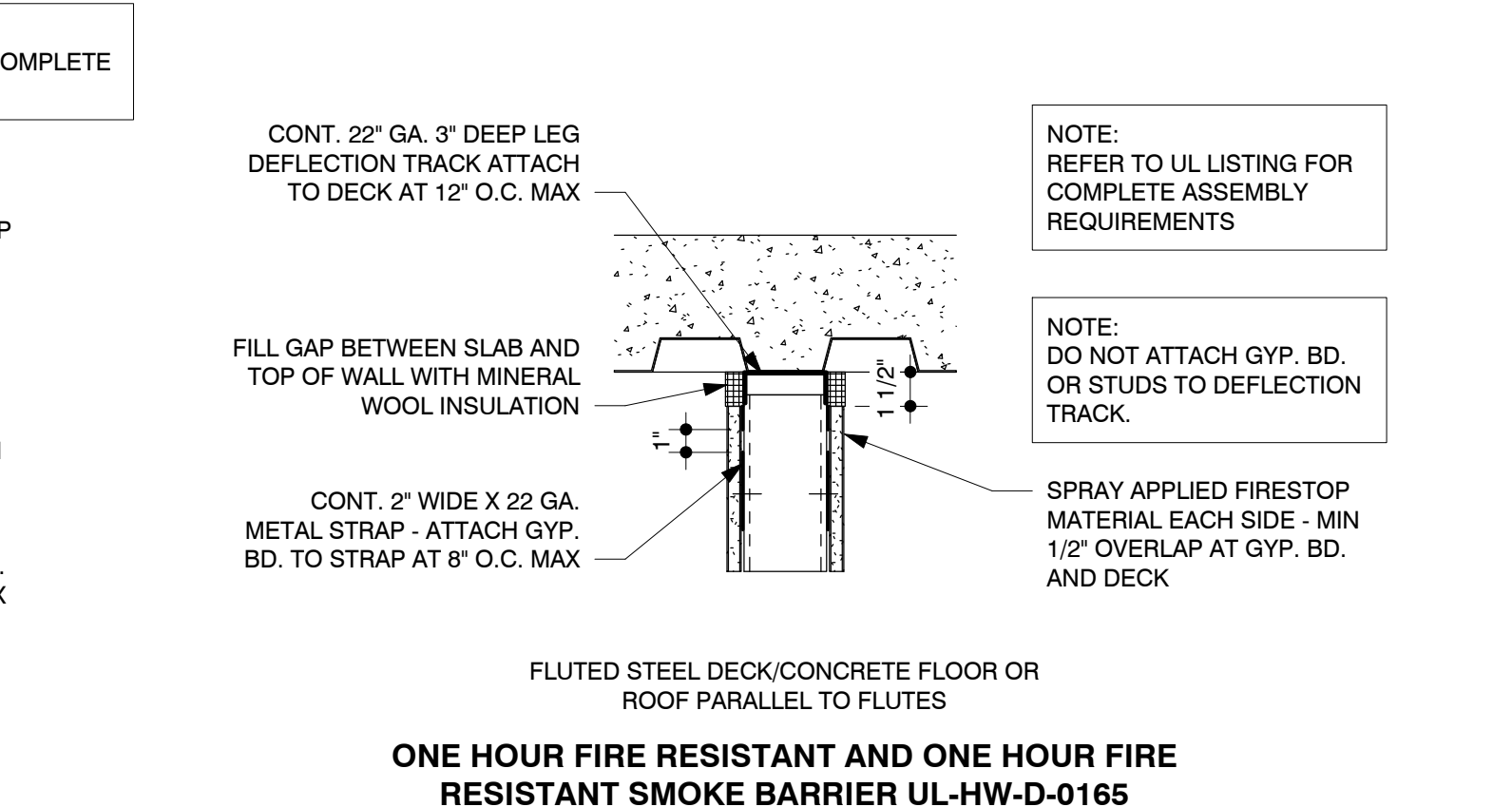
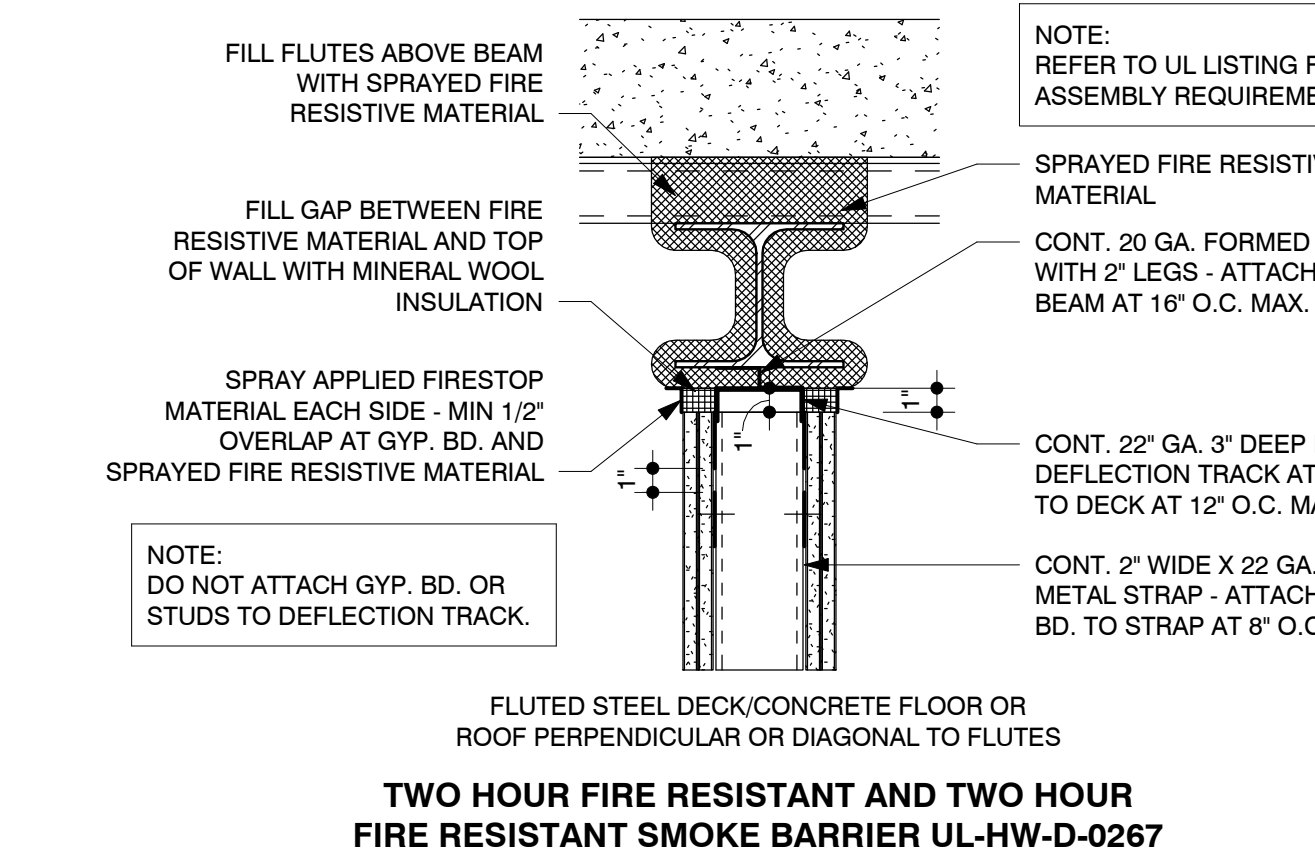
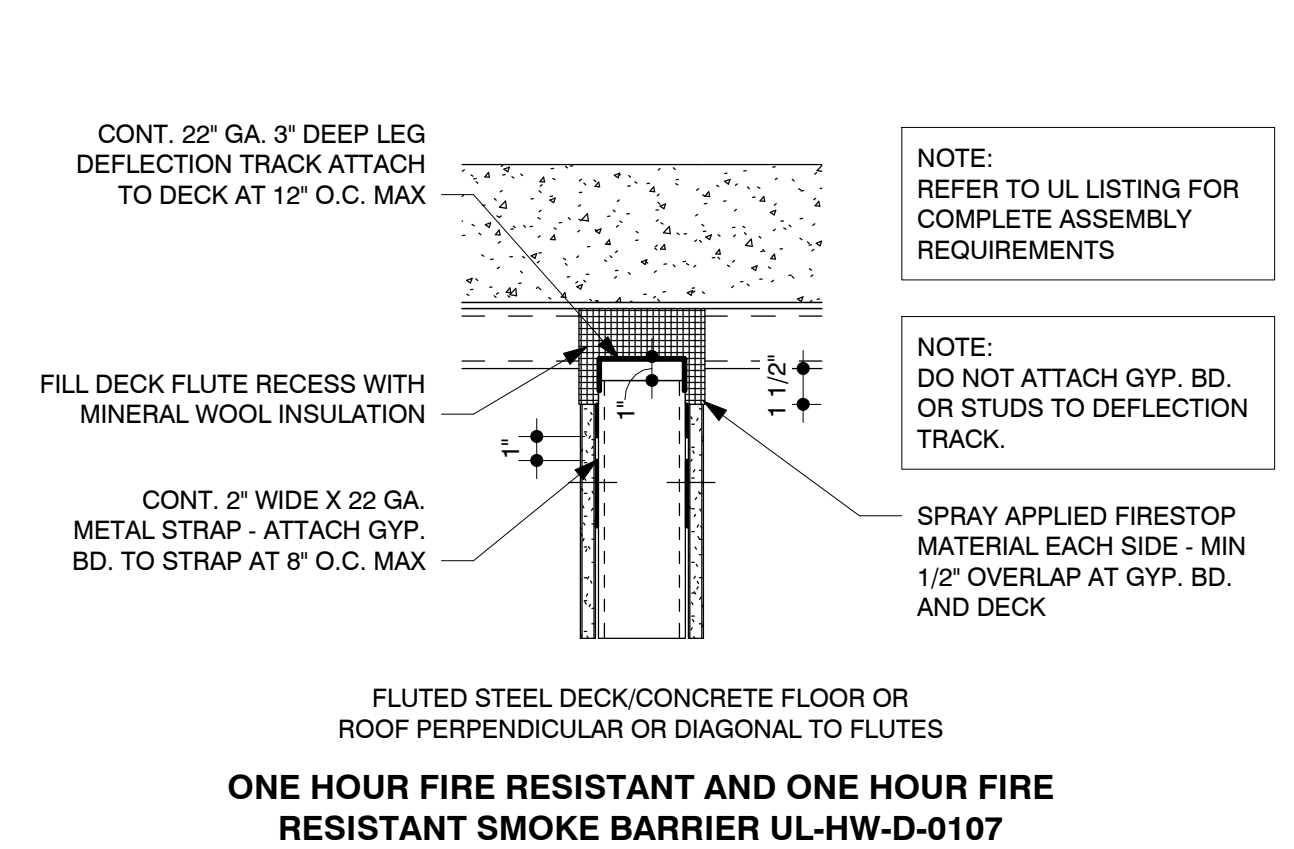
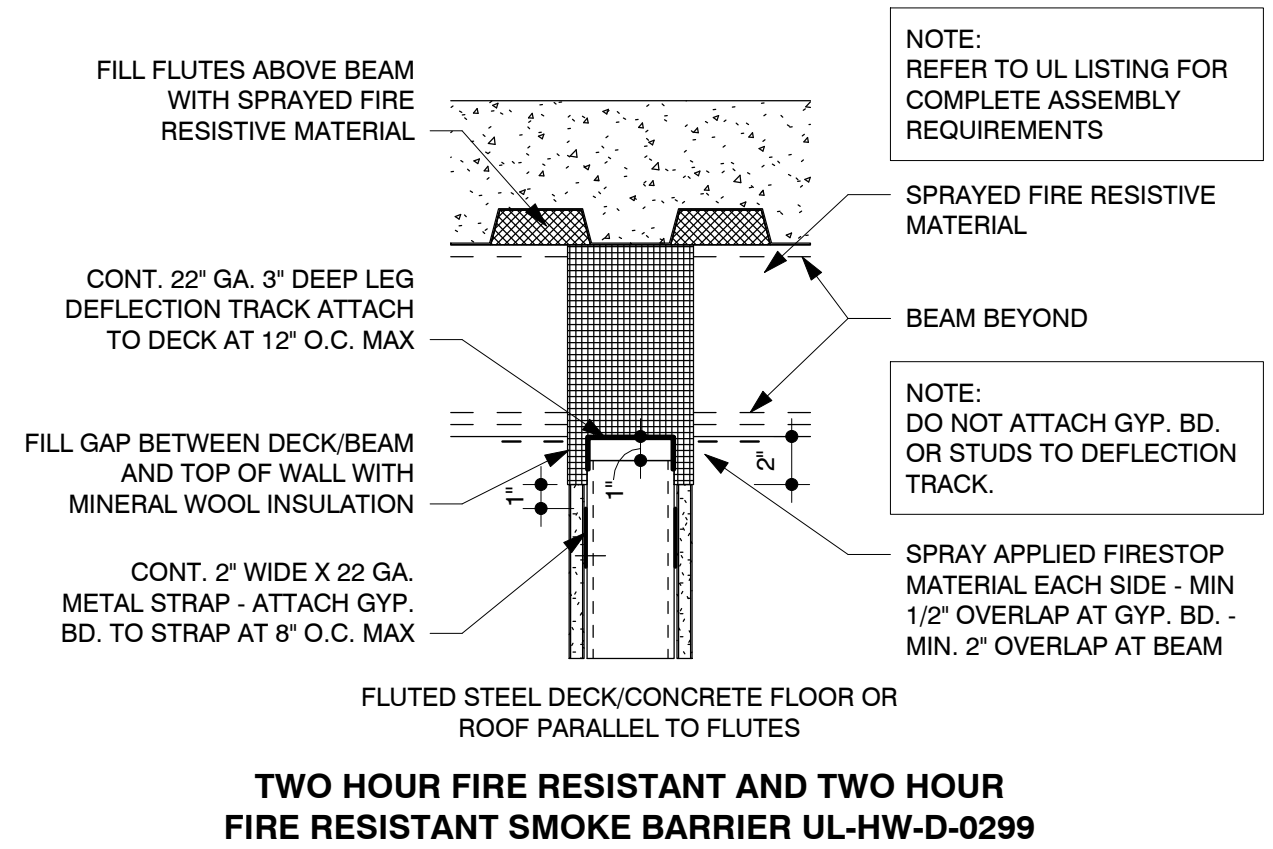
**TYPICAL INTERIOR PARTITION DETAILS** SCALE: 1/4" = 1' - 0"



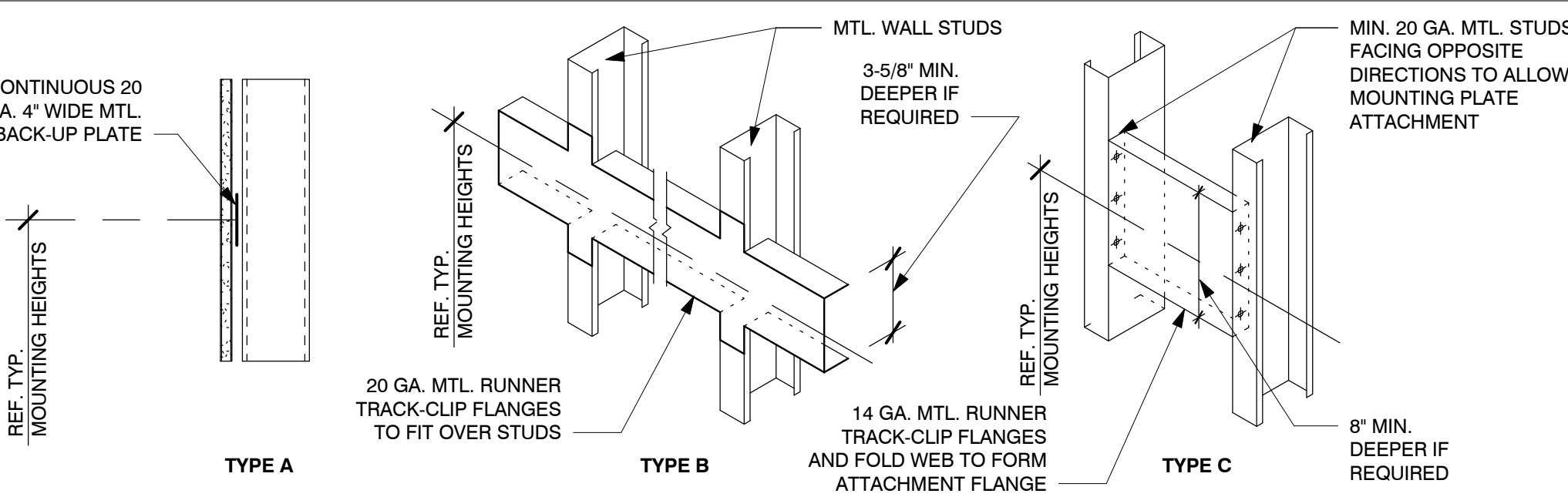
- NOTES:**
1. ALL STUDS ARE SPACED 16" O.C. MINIMUM.
  2. ALL STUDS SHALL BE "C" STUDS WITH 1/4" FLANGE MINIMUM.
  3. DENOTES SHELVING OR CABINETRY.
  4. DENOTES STONE.
  5. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.



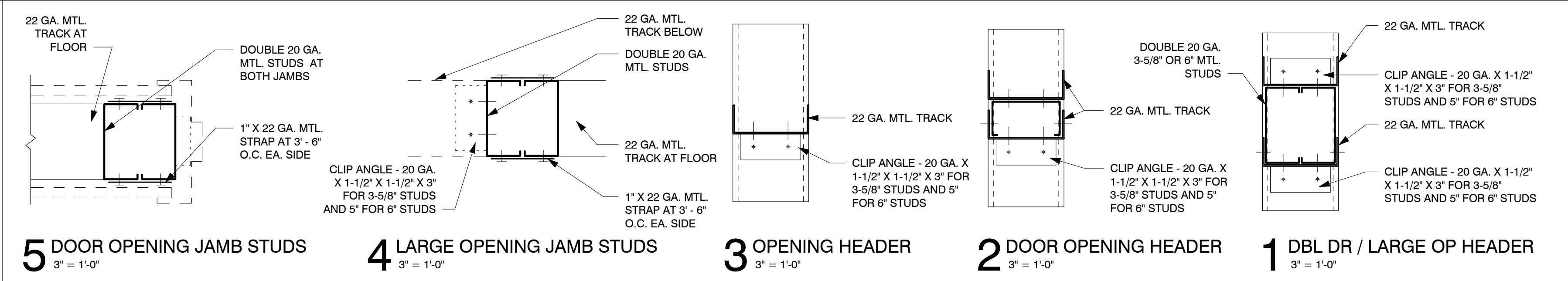
**TYPICAL WALL HEAD DETAILS** SCALE: 1-1/2" = 1' - 0"



**ACCESSORY / EQUIPMENT MOUNTING DETAILS**



**PARTITION FRAMING DETAILS**



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# MECHANICAL LEGEND

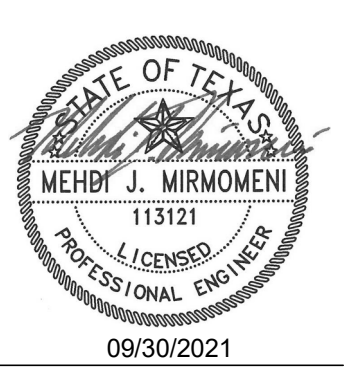
(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)

SYMBOLS		GENERAL NOTES		ABBREVIATIONS																																																																																																																																																																																																																																																																																																																																												
<h3>DUCTWORK</h3> 12X10 DUCTWORK SIZE, 1st NO. VISIBLE DIMENSION 12X10 DUCTWORK TO REMAIN 12X10 DUCTWORK TURNING VANES 12X10 BRANCH DUCT TAKEOFF VD SPLITTER TRANSITION (RECTANGULAR) TRANSITION (RECTANGULAR TO ROUND) FLEXIBLE DUCT FLEXIBLE CONNECTION VD VOLUME DAMPER FD FIRE DAMPER COMBINATION (FD) SMOKE DAMPER (SD) OR FIRE/SMOKE DAMPER (F/SD) ALL WITH ACCESS DOORS R CHANGE IN ELEVATION (R), (F) SIDEWALL GRILLE OR REGISTER (SUPPLY) SIDEWALL GRILLE OR REGISTER (RETURN OR EXHAUST) SUPPLY DUCT SECTION RECTANGULAR, FLAT, OVAL, ROUND RETURN/EXHAUST/OUTSIDE AIR DUCT SECTION CEILING GRILLE OR REGISTER (SUPPLY) EXISTING CEILING DIFFUSER, (SUPPLY) CEILING GRILLE OR REGISTER (EXHAUST OR RETURN) M MOTORIZED DAMPER H HUMIDISTAT T THERMOSTAT CONNECTION POINT TO EXISTING		<h3>VALVES</h3> ACTUATED TWO-WAY VALVE ACTUATED THREE-WAY VALVE UNION ORIFICE FLANGE BUTTERFLY VALVE TEMPERATURE/PRESSURE RELIEF VALVE GLOBE VALVE CHECK VALVE GATE VALVE GATE VALVE IN C.I. VALVE BOX MANUAL PRESSURE RELIEF VALVE MANUAL DIAPHRAGM VALVE STRAINER W/ BLOWDOWN GATE VALVE THERMOWELL W/ THERMOMETER THERMOMETER WELL PRESSURE GAUGE W/ GAUGE COCK (PI) AUTOMATIC AIR VENT BALL VALVE CIRCUIT SETTER, BALANCING VALVE VALVE IN VERTICAL DIRT LEG (6" LONG) VENTURI FLOW TUBE <h3>PIPING</h3> D CONDENSATE DRAIN DIRECTION OF FLOW WATER HAMMER ARRESTOR CLEANOUT WCO WALL CLEANOUT P - TRAP FLANGE CONNECTION DROP AT 45° ANGLE ELBOW TURNING DOWN ELBOW TURNING UP CAPPED PIPE FLEXIBLE CONNECTION CONCENTRIC PIPE REDUCER/INCREASER ECCENTRIC PIPE REDUCER/INCREASER PIPE SLEEVE DIRECTION OF SLOPE (DNWARD) FD FLOOR DRAIN SANITARY WASTE OR VENT STACK WASTE OR VENT NO.		<p>1. THESE GENERAL NOTES APPLY TO ALL SHEETS</p> <p>2. IN ANY CASE WHERE A PIPE OR DUCT SHOWN ON A PLAN SHEET DIFFERS FROM THAT SHOWN IN A SCHEMATIC OR DETAIL, USE THE LARGER OF THE TWO SIZES SHOWN.</p> <p>3. PIPING SHOWN ON EACH PLAN IS RUN ABOVE THE CEILING ON THE FLOOR WHERE IT IS SHOWN UNLESS OTHERWISE NOTED.</p> <p>4. MOUNT THERMOSTATS 48 INCHES ABOVE FINISHED FLOOR AND 8 INCHES TO ONE SIDE OF THE LIGHT SWITCHES WHERE BOTH OCCUR IN THE SAME LOCATION, UNLESS OTHERWISE NOTED.</p> <p>5. NORMAL DESIGN CONDITIONS:</p> <table border="1"> <thead> <tr> <th></th> <th>OUTSIDE</th> <th>INSIDE</th> </tr> </thead> <tbody> <tr> <td>SUMMER:</td> <td>99°F DB, 78°F WB</td> <td>75°F, 50% RH</td> </tr> <tr> <td>WINTER:</td> <td>25°F</td> <td>72°F</td> </tr> </tbody> </table> <p>6. ALL DUCT DIMENSIONS SHOWN ARE CLEAR AIRSTREAM SHEETMETAL DIMENSIONS.</p> <p>7. COORDINATE LOCATION OF THERMOSTATS WITH ARCHITECT .</p> <p>8. DO NOT RUN AIR HANDLERS OR EXHAUST FANS UNTIL ALL INTERIOR CLEANING AND PAINTING IS COMPLETE. THE CLEANING OF FOULED COILS OR FAN ASSEMBLIES DUE TO PAINT OR CONSTRUCTION DEBRIS IS TO BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR.</p> <p>9. CONTRACTOR SHALL VISIT JOBSITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS PRIOR TO SUBMITTING BID.</p> <p>10. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OTHER TRADES AND WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT INSTALL OR FABRICATE ANY WORK SHOWN UNTIL ALL SUCH WORK IS FULLY COORDINATED. NOT ALL OFFSETS AND FITTINGS ARE SHOWN. PROVIDE OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS AS PART OF THE WORK.</p> <p>11. GUARANTEE WORK FOR 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP.</p> <p>12. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, NFC, AND NFPA: THE STATE OF TEXAS AND THE LOCAL APPROVING AUTHORITIES.</p> <p>13. CONSTRUCT ALL DUCTWORK DOWNSTREAM OF UNITS TO SMACNA 2-INCH PRESSURE CLASSIFICATION. SEAL ALL DUCTWORK TO A SMACNA TYPE 'A' SEAL CLASS.</p> <p>14. ALL DUCTWORK SHALL BE GALVANIZED STEEL WITH BLANKET WRAP INSULATION AS SPECIFIED.</p> <p>15. FLEX DUCT SHALL BE FLEXMASTER TYPE 1M INSULATED OR EQUIVALENT; 6-FEET MAXIMUM INSTALLED LENGTH. R-VALUE SHALL BE A MINIMUM R-6.</p> <p>16. COORDINATE EXACT LOCATION OF DIFFUSERS WITH ARCHITECT. DIFFUSERS MAY HAVE TO BE SHIFTED TO FIT WITHIN ROOMS AS SHOWN. PROVIDE ADDITIONAL FLEX AND DUCT WORK AS REQUIRED TO MOVE DIFFUSERS.</p> <p>17. CONTRACTOR SHALL COMPLY WITH ALL LOCAL AMENDMENTS TO THE CURRENT ADOPTED ENERGY CODE.</p> <p>18. CONTRACTOR SHALL FACILITATE CX AGENT AS REQUIRED FOR COMPLIANCE WITH CURRENT ADOPTED ENERGY CODE.</p> <p>19. PROVIDE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND MAINTAIN ALL RECOMMENDED CLEARANCES. <u>NO EXCEPTIONS.</u></p>			OUTSIDE	INSIDE	SUMMER:	99°F DB, 78°F WB	75°F, 50% RH	WINTER:	25°F	72°F	<table border="1"> <thead> <tr> <th>ABBREVIATION</th> <th>DESCRIPTION</th> <th>ABBREVIATION</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>AFB ABOVE FINISHED FLOOR</td> <td>N</td> <td>NC NORMALLY CLOSED</td> </tr> <tr> <td></td> <td>AHU AIR HANDLING UNIT</td> <td>NO</td> <td>NORMALLY OPEN</td> </tr> <tr> <td></td> <td>ALT ALTERNATE</td> <td>O</td> <td>OA OUTSIDE AIR</td> </tr> <tr> <td></td> <td>ARCH ARCHITECT</td> <td>OS&amp;Y</td> <td>OUTSIDE STEM &amp; YOKE</td> </tr> <tr> <td></td> <td>AC ABOVE CEILING</td> <td>OC</td> <td>ON CENTERS</td> </tr> <tr> <td>B</td> <td>BAL VA CIRCUIT SETTER BALANCING VALVE</td> <td>OH</td> <td>OVERHEAD</td> </tr> <tr> <td></td> <td>BFF BELOW FINISHED FLOOR</td> <td>ONP</td> <td>OUTDOOR HEAT PUMP</td> </tr> <tr> <td></td> 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<h3>DIFFUSER KEY</h3> DIFFUSER MARK CFM S.A. DIFFUSER R.A. OR EXHAUST GRILLE OR REGISTER <p>ROUND DUCT IS SAME SIZE AS NECK OF DIFFUSER UNLESS OTHERWISE NOTED.</p> <p>SIZE AS NOTED ON PLAN - PROVIDE PLENUM/ADAPTER ON TOP OF GRILLE OR REGISTER</p>																																																																																																																																																																																																																																																																																																																																																



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SOUTHTON SERVICE CENTER  
9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

Project NO.: 21014  
Date: 09/30/2021  
Revisions:



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M0.1  
MECHANICAL SYMBOLS LEGEND

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DX AIR HANDLING UNIT SCHEDULE WITH ELECTRIC HEAT																	
MARK	AREA SERVED	TOTAL AIR FLOW (CFM)	TOTAL OUTSIDE AIR (CFM)	E.S.P. (IN. W.G.)	AMBIENT AIR (°F)	ELECTRICAL			DX COOLING				ELECTRIC HEAT			TOTAL WEIGHT (LBS)	MFG./ MODEL
						VOLTZ/PH/HZ	MCA	MCB	SENSIBLE CAPACITY (BTUH)	TOTAL CAPACITY (BTUH)	EDB/EWB (°F)	LDB/LWB (°F)	TOTAL CAPACITY (BTUH)	INPUT (KW)	EAT/LAT (°F)		
AHU-1	SUPER OFFICES	1755	70	0.65	105	208/30/60	31.8	35	37,500	39,100	78/65	55/54	22,800	7	78/90	170	FRASER-JOHNSTON/AE60DX21
AHU-2	MEETING/BREAK	1690	275	0.65	105	208/30/60	20	30	36,100	43,500	78/65	55/54	21,900	7	78/90	170	FRASER-JOHNSTON/AE60DX21
AHU-3	CONFERENCE	510	90	0.65	105	208/30/60	28.3	30	10,900	14,200	78/65	55/54	6,700	2	78/90	85	FRASER-JOHNSTON/AE18BX21
AHU-4	MEETING SOUTH	1815	255	0.53	105	208/30/60	31.8	35	38,800	48,400	78/65	55/54	23,600	7	78/90	170	FRASER-JOHNSTON/AE60DX21

NOTES: (APPLY TO ALL UNITS UNLESS OTHERWISE NOTED BELOW).

1. SINGLE POINT ELECTRICAL CONNECTION.
2. FOIL FACED INSULATED CABINET.
3. EC MOTOR/VARIABLE SPEED FAN OPERATION.
4. 5-YEAR PARTS WARRANTY.
5. AUXILIARY STAINLESS STEEL DRAIN PAN UNDERNEATH UNIT. PROVIDE FLOAT SWITCH/ALARM TO SHUT DOWN UNIT UPON HIGH WATER LEVEL DETECTION.
6. THERMOSTAT CONTROL WITH LCD DISPLAY AND WIFI CONNECTIVITY.
7. 2-SETS OF MERV-13 FILTERS.

DX OUTSIDE AIR HANDLING UNIT SCHEDULE WITH ELECTRIC HEAT																					
MARK	AREA SERVED	TOTAL AIR FLOW (CFM)	MIN. AIR FLOW (CFM)	E.S.P. (IN. W.G.)	T.S.P. (IN. W.G.)	AMBIENT AIR TEMP. (°F)	ELECTRICAL				DX COOLING				REHEAT COIL			HOT GAS RE-HEAT (YES/NO)	VFD (YES/NO)	TOTAL WEIGHT (LBS)	MFG./ MODEL
							FAN HP	VOLTZ/PH/HZ	MCA	MCB	SENSIBLE CAPACITY (BTUH)	TOTAL CAPACITY (BTUH)	EDB/EWB (°F)	LDB/LWB (°F)	TOTAL CAPACITY (BTUH)	ELECTRICAL INPUT (KW)	EAT/LAT (°F)				
OAHU-1	DOAS	690	450	1.25	1.65	105	1.1	208/30/60	58	60	32,100	58,400	78/65	55/54	39,500	15.8	25/72	Yes	Yes	462	AAONH3-BRB-8

NOTES: (APPLY TO ALL UNITS UNLESS OTHERWISE NOTED BELOW).

1. MODULATING SCR ELECTRIC HEATER.
2. MODULATING HOT-GAS REHEAT.
3. EC FAN MOTOR.
4. VCC-X CONTROLLER WITH DVC CONTROL AND ALL DUCT AND SPACE SENSORS REQUIRED FOR OPERATION.

CONDENSING UNIT SCHEDULE										
MARK	MIN. CAP. (BTUH)	AMBIENT TEMP. (°F)	REFRIGERANT	MAX. COND. TEMP (°F)	MAX. SUCT. TEMP (°F)	ELECTRICAL			MIN. EFF. (SEER)	MFG./MODEL
						VOLTS/ PH/ HZ	MCA	MCB		
CU-1	46,400	105	R-410A	105	40	208/30/60	20	30	17	FRASER-JOHNSTON/TCG48B31S
CU-2	46,300	105	R-410A	105	40	208/30/60	20	30	17	FRASER-JOHNSTON/TCG48B31S
CU-3	17,000	105	R-410A	105	40	208/10/60	14	20	15	FRASER-JOHNSTON/TC7B1821S
CU-4	56,100	105	R-410A	105	40	208/30/60	22.6	35	16	FRASER-JOHNSTON/TCG60B31S
OACU-1	52,900	105	R-410A	115	45	208/30/60	24	40	10.2	AAON/CFA-006-A-A-8-DC00H

NOTES: (APPLY TO ALL UNITS UNLESS OTHERWISE NOTED BELOW).

1. HIGH EFFICIENCY, MODULATING SCROLL COMPRESSOR.
2. HAIL GUARDS.
3. SINGLE POINT ELECTRICAL CONNECTION.
4. 5-YEAR COMPRESSOR WARRANTY.

FAN SCHEDULE											
MARK	AREA SERVED	TYPE	DRIVE TYPE	ESP (IN. W.G.)	TOTAL AIR FLOW (CFM)	RPM	ELECTRICAL			HARDWARE INTERLOCKED WITH	MFG./ MODEL
							MOTOR (WATTS)	VOLTS/PH/HZ	VFD (YES/NO)		
EF-1	RESTROOMS/JUAN CLOSET	INLINE	DIRECT	0.5	550	1,456	188	120/110/60	Yes	OAHU-1	GREENHECK/CSP-A710-VG

NOTES: (APPLY TO ALL UNITS UNLESS OTHERWISE NOTED BELOW).

1. PROVIDE BACKDRAFT DAMPER, ELECTRICAL DISCONNECT, EC MOTOR, ALL BRACKETS AND HARDWARE REQUIRED FOR INSTALLATION.

AIR DEVICE SCHEDULE								
TAG	AIR FLOW RANGE	SUPPLY	RETURN	EXHAUST	INLET SIZE (IN.)	MODULE SIZE	MATERIAL	MFG./MODEL
A	0-150	X			60	24X24	ALUMINUM	TITUS/TMS-AA
B	151-300	X			80	24X24	ALUMINUM	TITUS/TMS-AA
C	301-440	X			100	24X24	ALUMINUM	TITUS/TMS-AA
D	441-650	X			120	24X24	ALUMINUM	TITUS/TMS-AA
N	301-450		X	X	10X10	24X24	ALUMINUM	TITUS/PAR-AA
O	451-650		X	X	12X12	24X24	ALUMINUM	TITUS/PAR-AA
P	500-1500		X	X	18X18	24X24	ALUMINUM	TITUS/PAR-AA

NOTES:

1. PROVIDE WITH BORDER TYPE COMPATIBLE WITH INSTALLATION. CONTRACTOR TO VERIFY PRIOR TO ORDERING.



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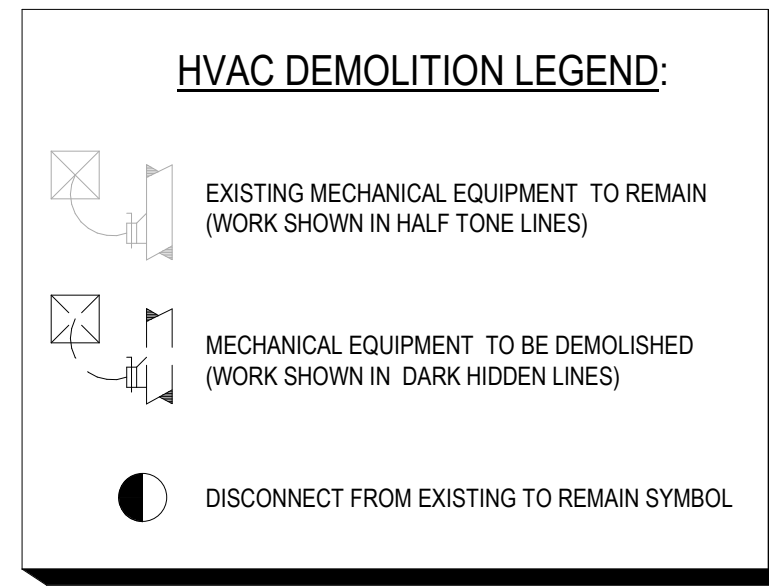
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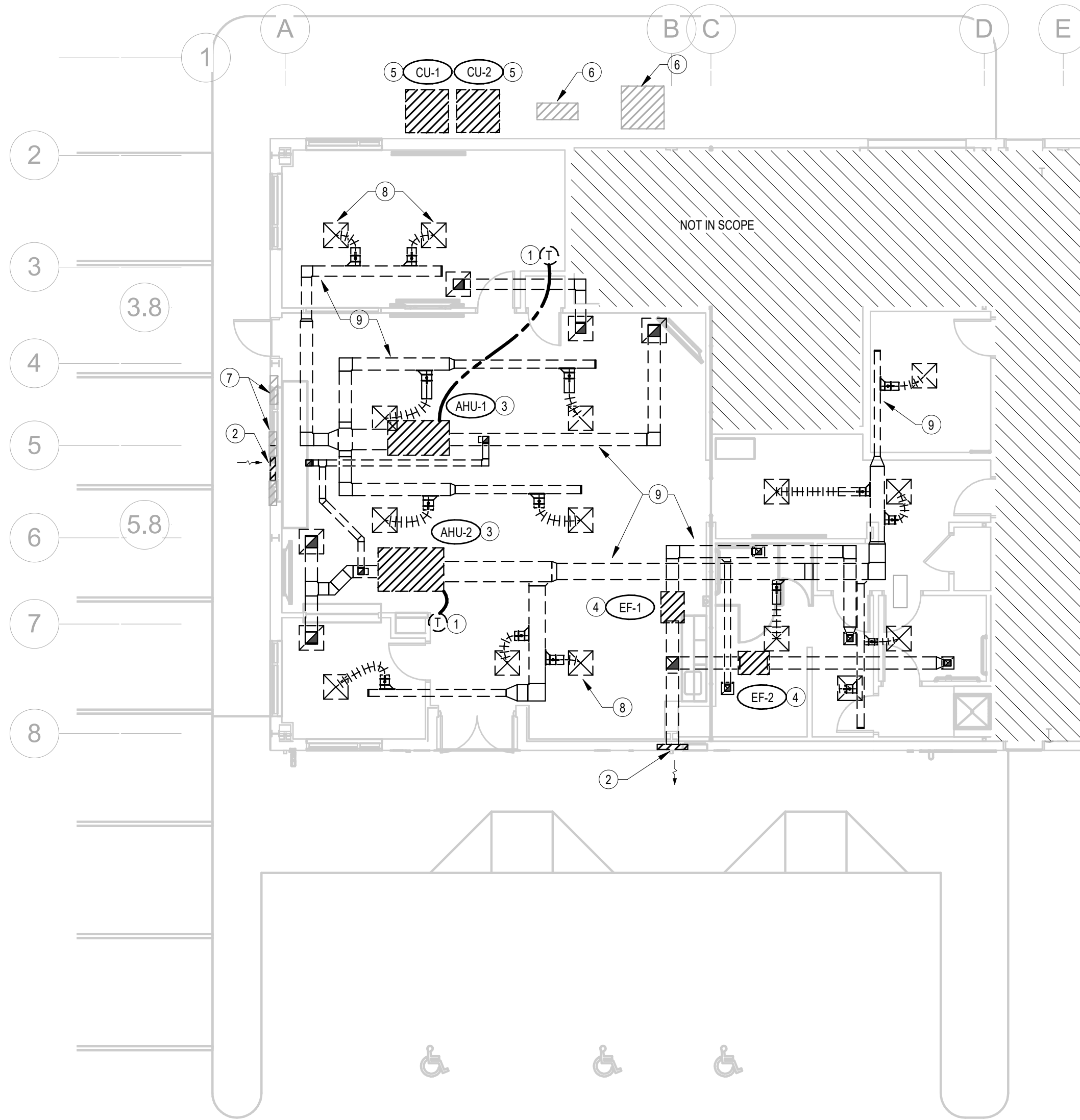
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M0.2  
MECHANICAL SCHEDULES

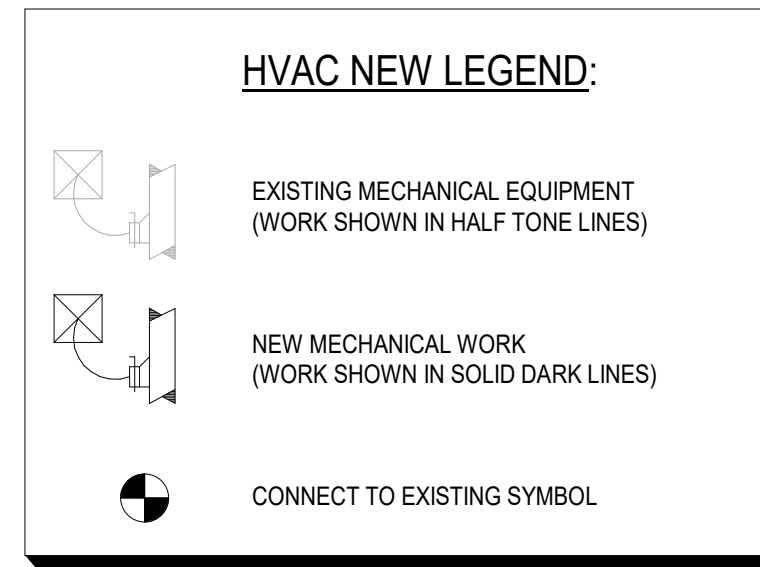


**1/M1.1 KEYED NOTES**

- 1 DEMOLISH THERMOSTAT AND ASSOCIATED CONTROL WIRING.
- 2 DEMOLISH EXISTING LOUVER AND PATCH WALL. REFER TO ARCHITECTURAL.
- 3 DEMOLISH AIR HANDLING UNIT AND ASSOCIATED REFRIGERANT PIPING. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF REFRIGERANT FLUID.
- 4 DEMOLISH EXHAUST FAN AND ASSOCIATED DUCTWORK.
- 5 DEMOLISH CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING.
- 6 EXISTING CONDENSING UNIT TO REMAIN.
- 7 EXISTING WALL VENT TO BE CAPPED. REFER TO ARCHITECTURAL.
- 8 DEMOLISH AIR DEVICE. TYPICAL.
- 9 DEMOLISH DUCTWORK. TYPICAL.

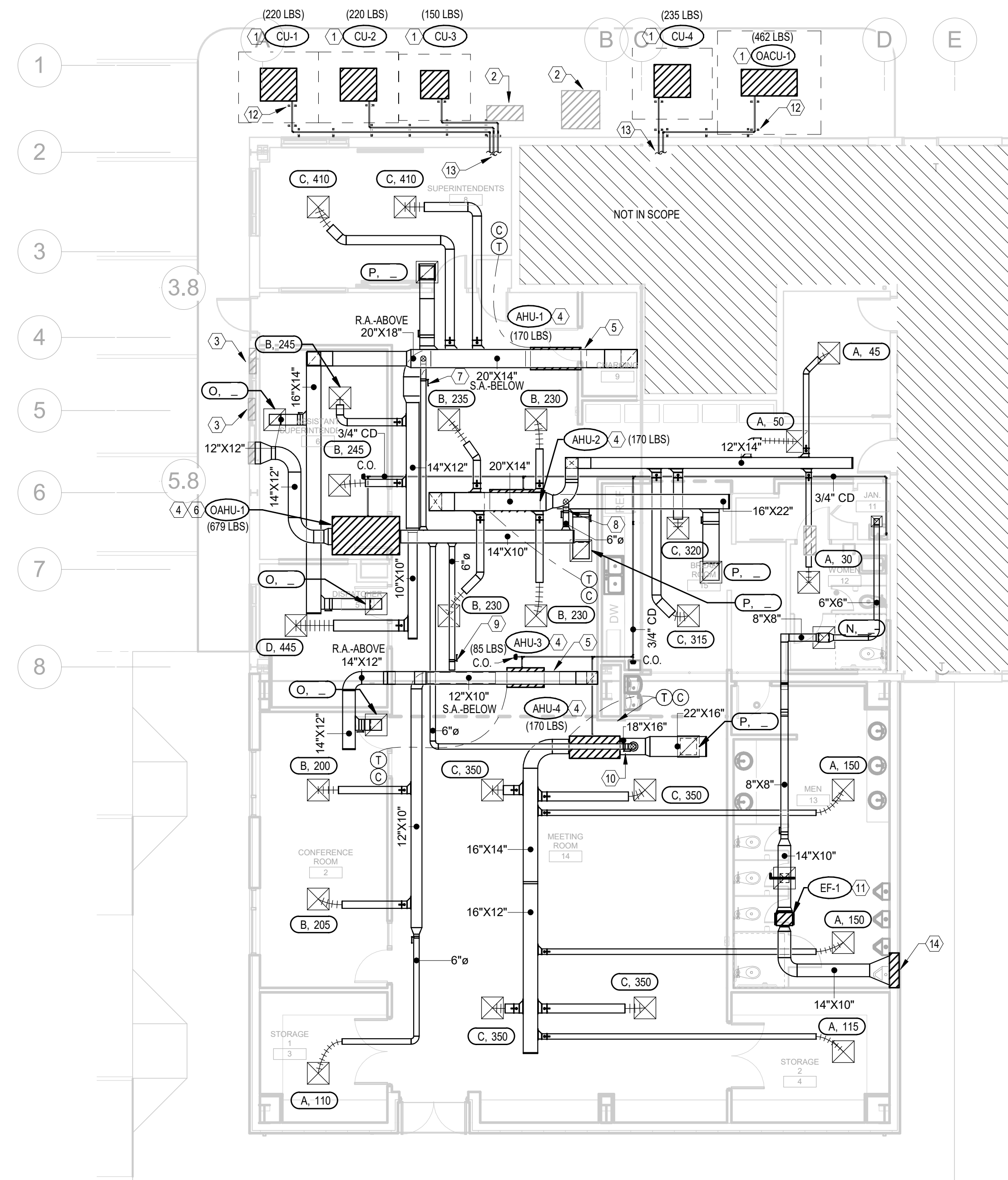


**1 FLOOR PLAN - HVAC DEMOLITION**  
M1.1 1/8" = 1'-0"



**2/M1.1 KEYED NOTES**

- 1 INSTALL NEW CONDENSING UNIT ON CONCRETE WALKWAY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MAINTAIN ALL REQUIRED CLEARANCES. LEVEL UNIT AS REQUIRED.
- 2 EXISTING CONDENSING UNIT TO REMAIN.
- 3 EXISTING WALL VENT TO BE CAPPED. REFER TO ARCHITECTURAL.
- 4 INSTALL AIR HANDLING UNIT ABOVE CEILING PER MANUFACTURER'S RECOMMENDATIONS AND MAINTAIN ALL REQUIRED CLEARANCES. ENSURE MAINTENANCE ACCESS SIDE OF UNIT IS ACCESSIBLE FROM BELOW. COORDINATE ELEVATION OF AIR HANDLING UNIT WITH REQUIRED CONDENSATE DRAIN PIPE SLOPE FOR ROUTING TO MOPSINK IN JANITOR CLOSET.
- 5 ROUTE RETURN AIR DUCTWORK OVER UNIT AND SUPPLY AIR DUCTWORK.
- 6 INTERLOCK OUTSIDE AIR UNIT TO EXHAUST FAN. OUTSIDE AIR UNIT SHALL OPERATE ON A 7-DAY PROGRAMMABLE SCHEDULE. MODULATE OUTSIDE AIR BETWEEN MAXIMUM/MINIMUM OUTSIDE AIR SETTINGS BASED ON HIGHEST CARBON DIOXIDE (CO2) READING FROM ALL THREE (3) CO2 SENSORS LOCATED IN THE SPACE. ONCE CO2 LEVELS DROP BELOW 800 PPM FOR A PERIOD OF 5 MINUTES (ADJ.) REDUCE OUTSIDE AIR TO MINIMUM POSITION. THE REVERSE SHALL HOLD TRUE.
- 7 BALANCE OUTSIDE AIR TO 70 CFM.
- 8 BALANCE OUTSIDE AIR TO 275 CFM.
- 9 BALANCE OUTSIDE AIR TO 90 CFM.
- 10 BALANCE OUTSIDE AIR TO 255 CFM.
- 11 INSTALL EXHAUST FAN ABOVE CEILING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ACCESS PANEL IN CEILING FOR MAINTENANCE.
- 12 PIPING SUPPORTS. TYPICAL.
- 13 ROUTE REFRIGERANT PIPING TO AIR HANDLING UNITS ABOVE CEILING. PENETRATE EXTERIOR WALL ABOVE CEILING. SEAL PENETRATIONS WATER AND AIR TIGHT. SINGLE LINE SHOWN FOR CLARITY. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- 14 NEW EXHAUST LOUVER WITH A MINIMUM FREE AREA OF 0.8 SQUARE FEET AND INSECT SCREEN. REFER TO ARCHITECTURAL.



**2 FLOOR PLAN - HVAC**  
M1.1 1/8" = 1'-0"

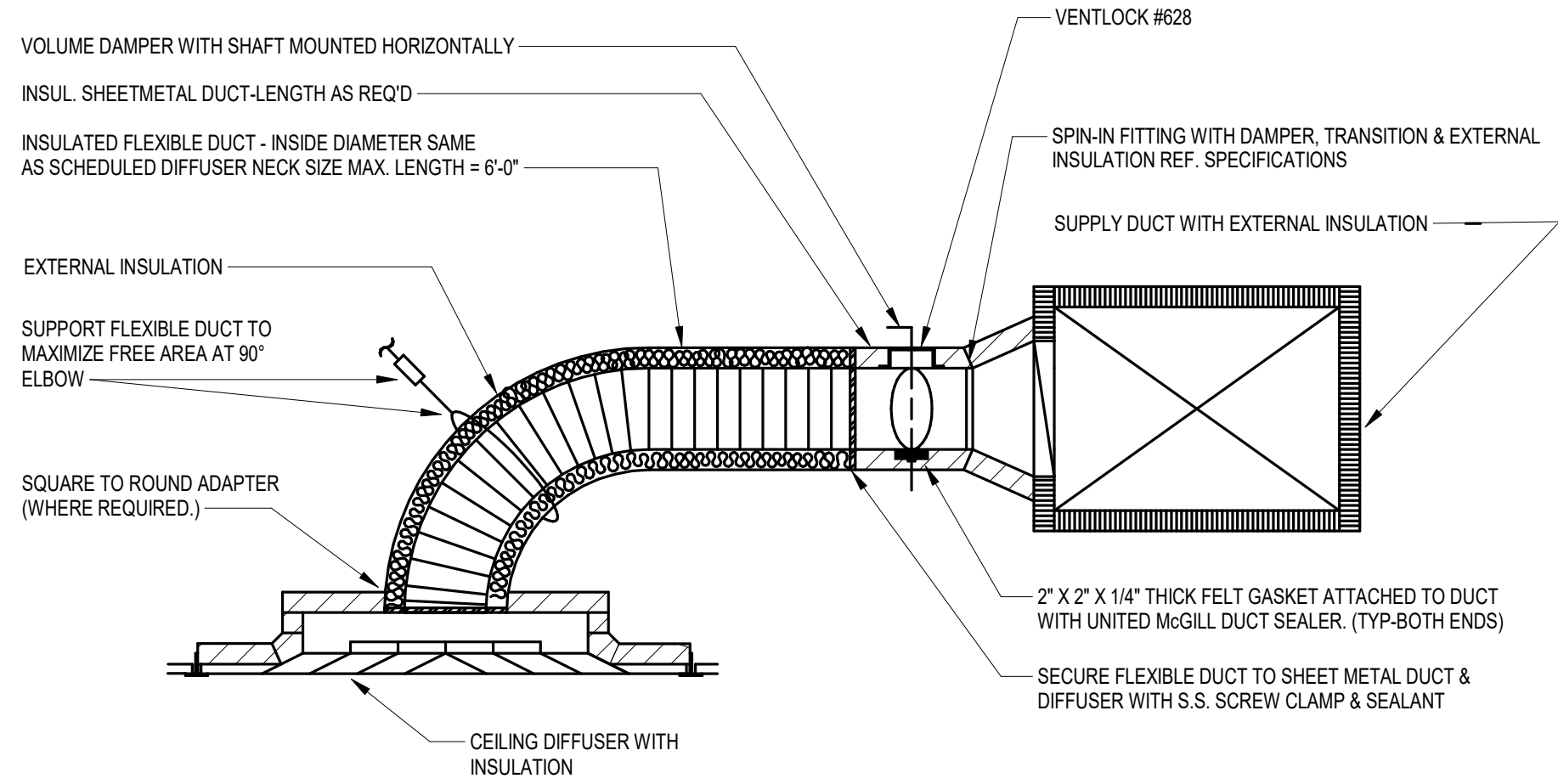


**1 MEZZANINE PLAN - HVAC**  
 M1.2 1/8" = 1'-0"

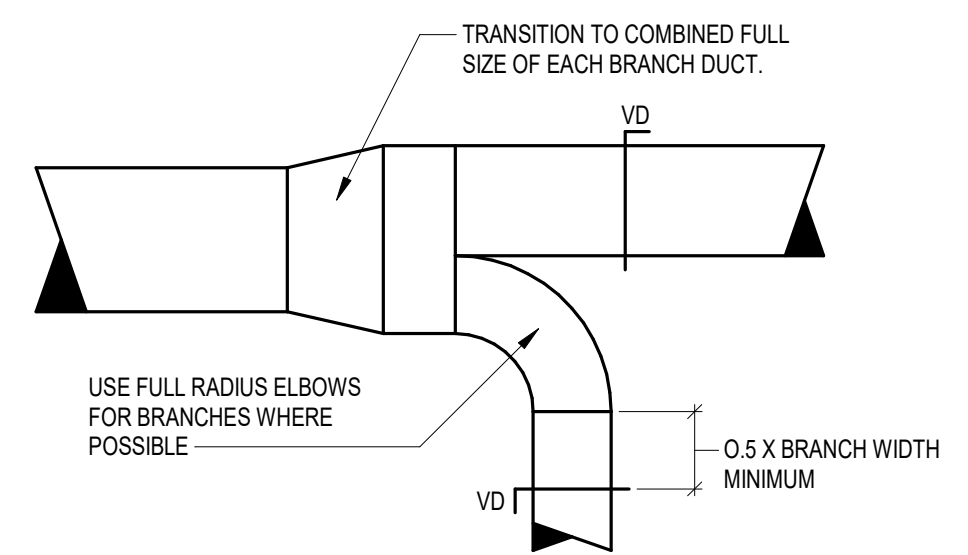
**M1.2 KEYED NOTES**

- 1 CONTRACTOR SHALL CLEAN AIR FILTER AND COILS. REFER TO SPECIFICATIONS.

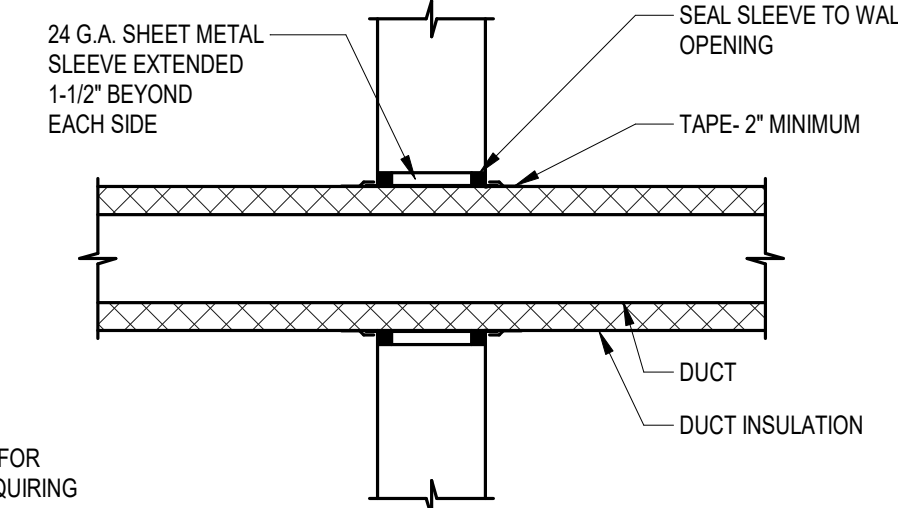
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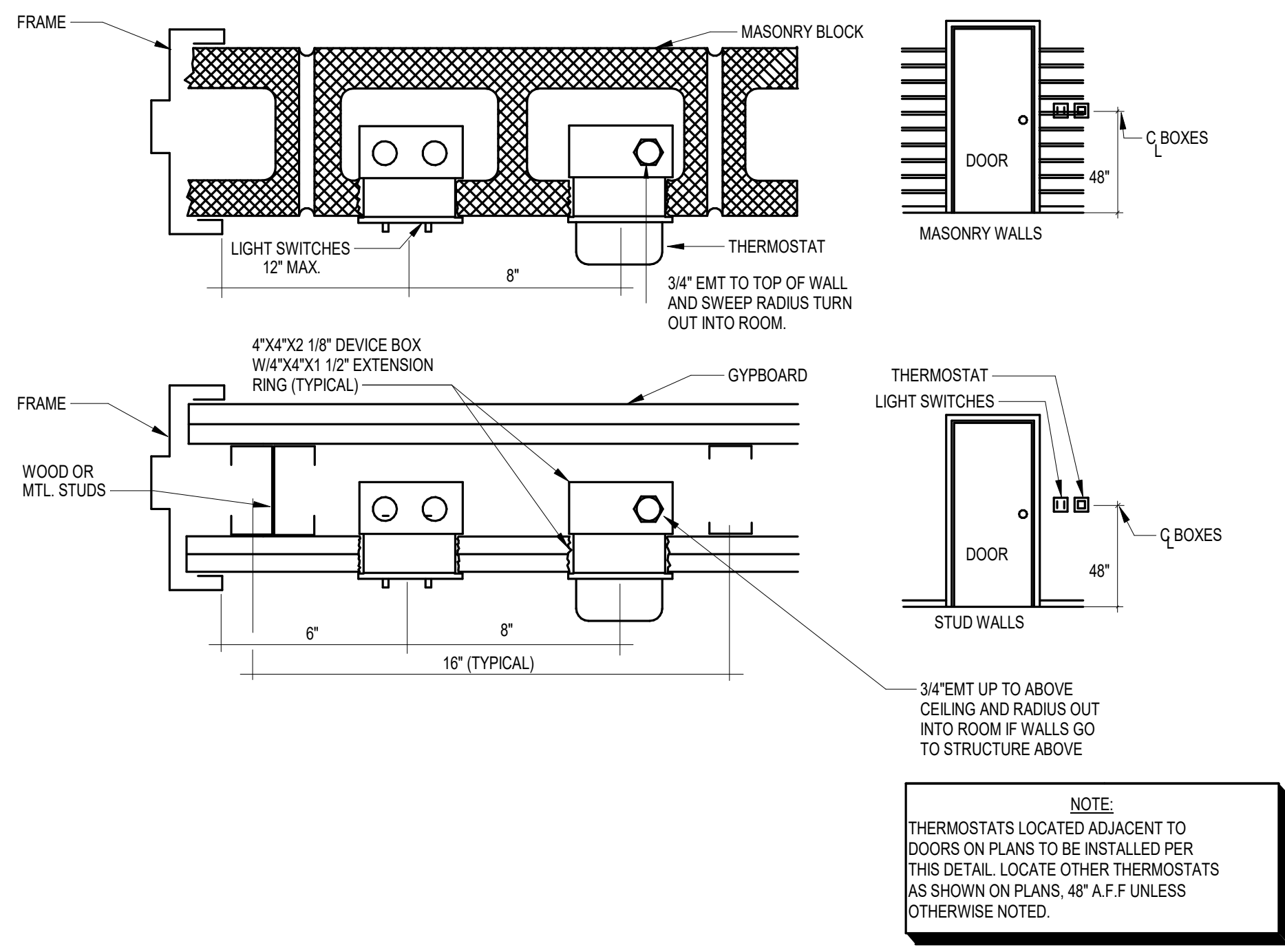
**1 DIFFUSER CONNECTION DETAIL**  
 M2.1 N.T.S.



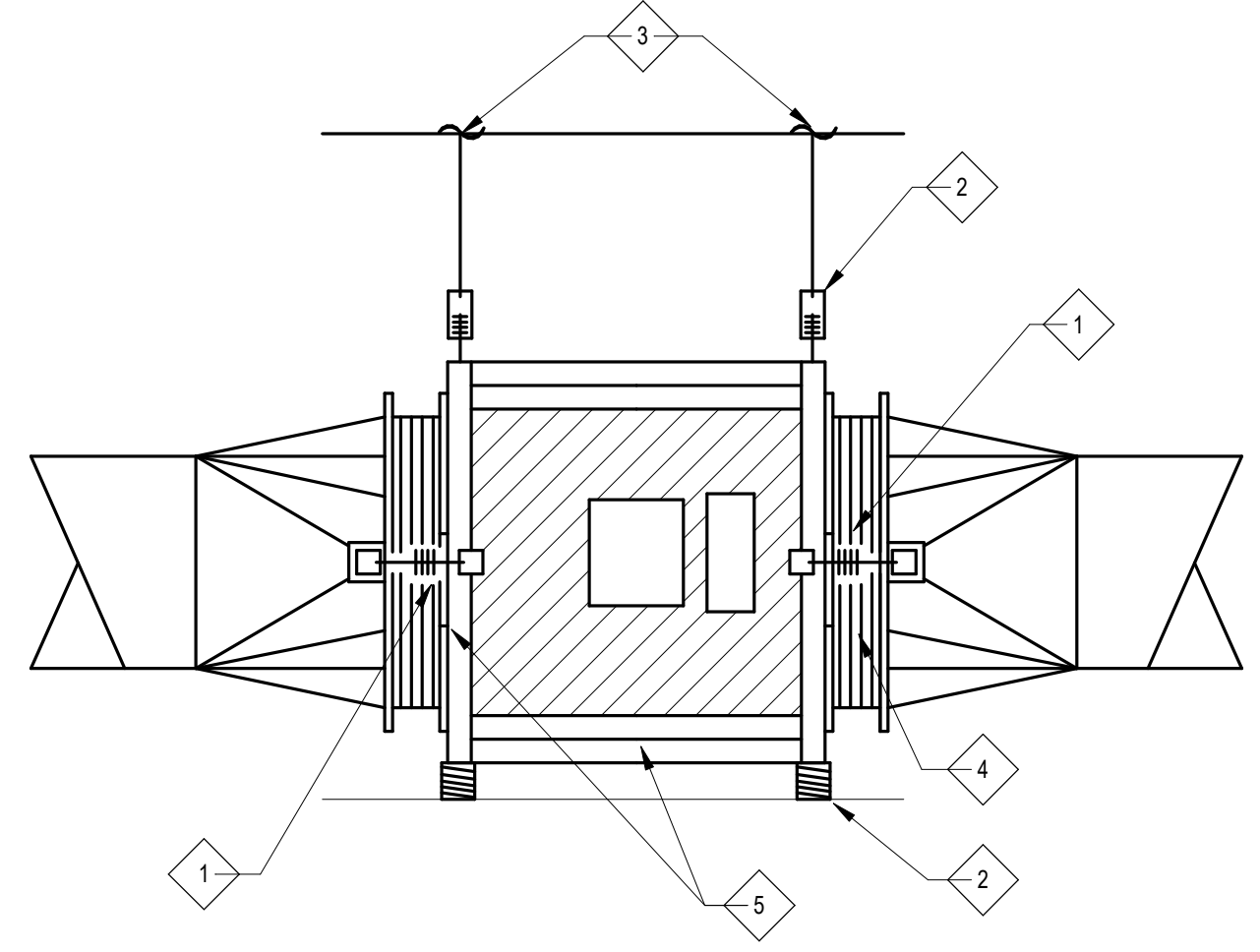
**2 RECTANGULAR DUCT SPLIT**  
 M2.1 N.T.S.



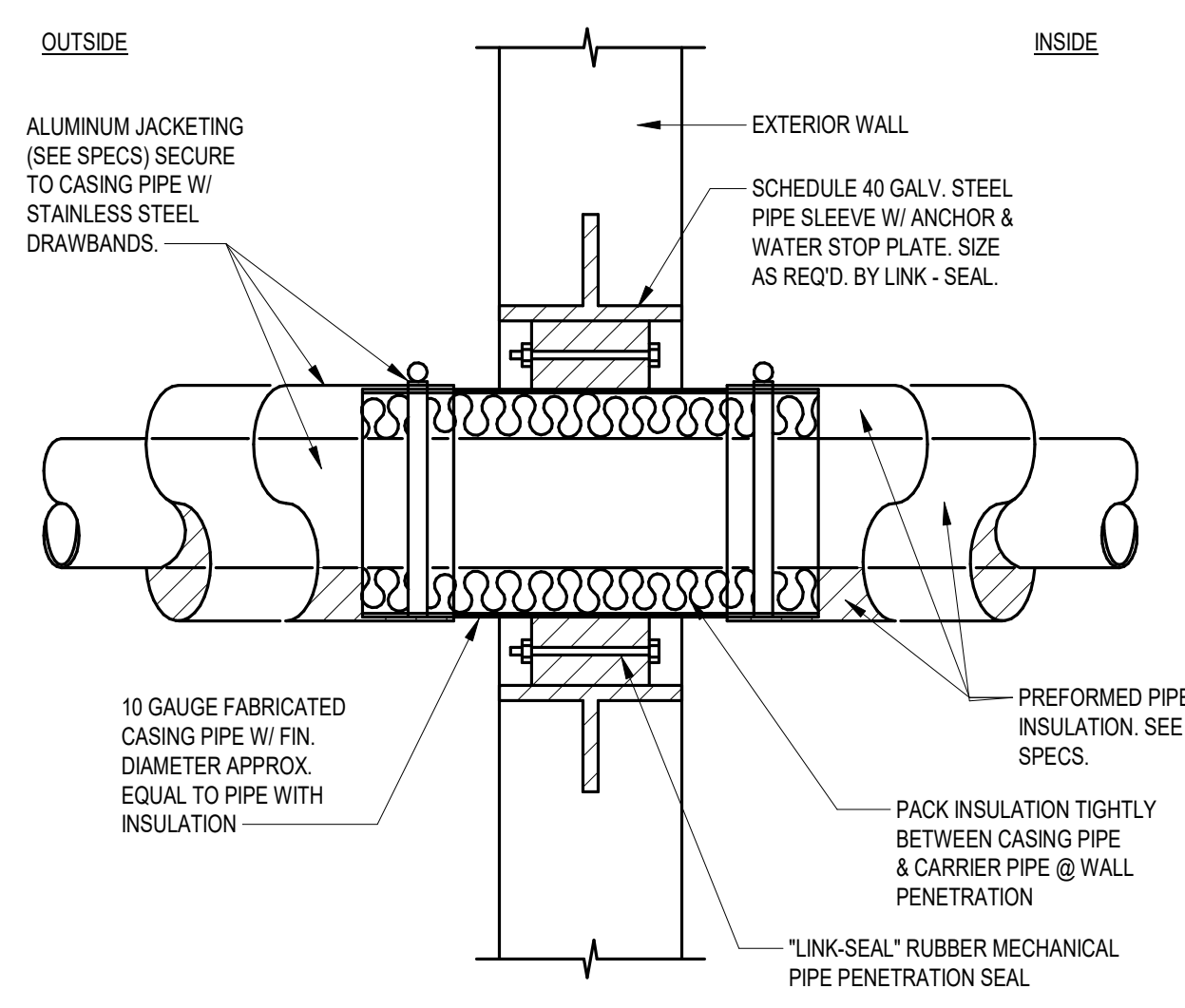
**3 DUCT PENETRATION THRU INTERIOR WALL**  
 M2.1 N.T.S.



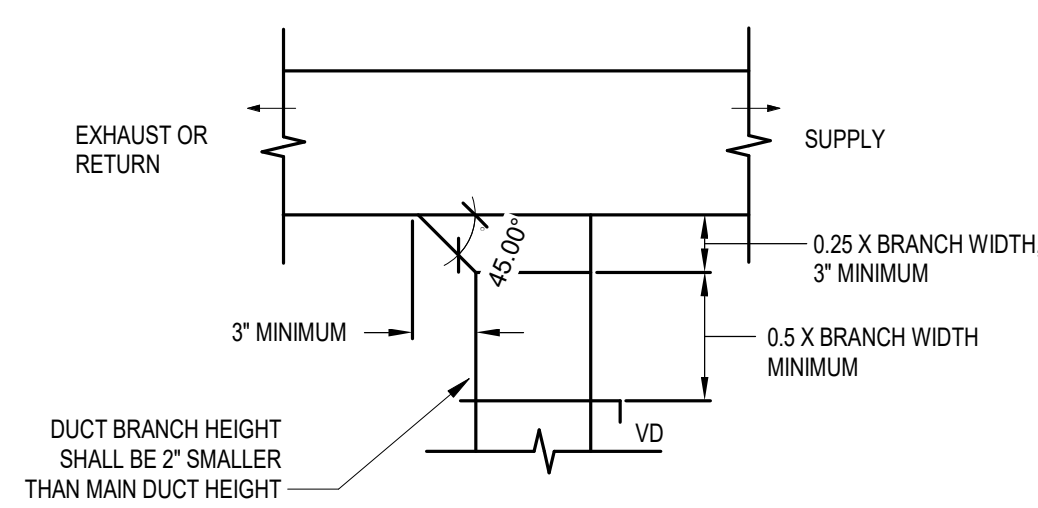
**4 ROOM THERMOSTAT/LIGHT SWITCH DETAIL**  
 M2.1 N.T.S.



**5 IN LINE CENTRIFUGAL FAN SUPPORT DETAIL**  
 M2.1 N.T.S.



**6 INSULATED PIPE THROUGH EXTERIOR WALL**  
 M2.1 N.T.S.



**7 RECTANGULAR BRANCH DUCT TAKEOFF**  
 M2.1 N.T.S.

# PLUMBING LEGEND

(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)

SYMBOLS	
	<b>VALVES</b> PNEUMATIC ACTUATED TWO-WAY VALVE
	PNEUMATIC ACTUATED THREE-WAY VALVE
	UNION
	ORIFICE FLANGE
	BUTTERFLY VALVE
	TEMPERATURE/ PRESSURE RELIEF VALVE
	GLOBE VALVE
	CHECK VALVE
	GATE VALVE
	GATE VALVE IN C.I. VALVE BOX
	FLANGED VALVE AS DESIGNATED
	MANUAL PRESSURE RELIEF VALVE
	BELLOWS VALVE
	BELLOWS VALVE W/PURGE PORTS
	MANUAL DIAPHRAGM VALVE
	STRAINER W/ BLOWDOWN GATE VALVE
	THERMOWELL W/ THERMOMETER
	THERMOMETER WELL
	PRESSURE GAUGE W/ GAUGE COCK (PI)
	AUTOMATIC AIR VENT
	EXTERIOR 2-WAY FLOOR CLEANOUT IN CONCRETE PAD
	EXTERIOR FLOOR CLEANOUT IN CONCRETE PAD
	FLOOR CLEANOUT
	WALL CLEANOUT
	P - TRAP
	FLANGE CONNECTION
	DROP AT 45° ANGLE
	ELBOW TURNING DOWN
	ELBOW TURNING UP
	CAPPED PIPE
	FLEXIBLE CONNECTION
	CONCENTRIC PIPE REDUCER/ INCREASER
	ECCENTRIC PIPE REDUCER/ INCREASER
	PIPE SLEEVE
	DIRECTION OF SLOPE (DNWARD)
	FLOOR DRAIN
	FLOOR SINK 1/2 GRATE
	SANITARY WASTE OR VENT STACK WASTE OR VENT NO.
	BALL VALVE
	CIRCUIT SETTER, BALANCING VALVE
	PLUG VALVE
	SOLENOID OPERATED VALVE
	VALVE IN VERTICAL
	DIRT LEG (6" LONG)
	VENTURI FLOW TUBE

PIPING	
	EXISTING COLD WATER (POTABLE)
	EXISTING DOMESTIC HOT WATER (POTABLE)
	EXISTING DOMESTIC HOT WATER RETURN (POTABLE)
	EXISTING TEMPERED HOT WATER (POTABLE)
	EXISTING SANITARY VENT
	EXISTING SANITARY SEWER
	DOMESTIC COLD WATER (POTABLE)
	DOMESTIC HOT WATER (POTABLE)
	DOMESTIC HOT WATER RETURN (POTABLE)
	CONDENSATE DRAIN
	NATURAL GAS
	NON-POTABLE WATER
	DIRECTION OF FLOW
	WATER HAMMER ARRESTOR
	MEDICAL COMPRESSED AIR
	VENT
	WASTE

NOTES	
<b>PLUMBING GENERAL NOTES:</b>	
<ol style="list-style-type: none"> <li>CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.</li> <li>REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT OF PLUMBING FIXTURES.</li> <li>CONTRACTOR SHALL REVIEW AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID.</li> <li>CONTRACTOR SHALL COORDINATE WITH ALL TRADES DURING CONSTRUCTION.</li> <li>CONTRACTOR SHALL VERIFY EXISTING FLOOR CONSTRUCTION PRIOR TO SAW CUTTING FOR NEW PLUMBING.</li> <li>SLOPE ALL WASTE PIPING AT 1/4" PER FOOT.</li> <li>REFER TO ARCHITECTURAL ELEVATION AND SECTIONS PRIOR TO ROUTING OF PIPING.</li> <li>INSTALL FLUSH LEVER HANDLES ON OPEN SIDE OF ADA WATER CLOSET STALLS.</li> </ol>	

ABBREVIATION			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AC ABOVE CEILING	I	IN INCHES
AF	AHU AIR HANDLING UNIT	IE	INVERT ELEVATION
ARCH	ARCHITECT	K	KW KILOWATTS
B	BAL VA CIRCUIT SETTER	L	LB POUNDS
BFF	BALANCING VALVE	M	MAX MECH MECHANICAL
BLDG	BELOW FINISHED FLOOR	MFR	MANUFACTURER
B VA	BALL VALVE	MIN	MINIMUM
BF	BELOW FLOOR	MTD	MOUNTED
C	CAP CAPACITY	MTR	MOTOR
CFH	CUBIC FEET PER HOUR	N	NC NORMALLY CLOSED
CI	CAST IRON	NO	NORMALLY OPEN
CO	CLEANOUT	O	OC ON CENTERS
CONC	CONCRETE	OH	OVERHEAD
COND	CONDENSING	P	PD PRESSURE DROP
CONN	CONNECTION	PH	PHASE
CONT	CONTINUATION	PLBG	PLUMBING
CU	COPPER	PR VA	PRESSURE REDUCING VALVE
CW	DOMESTIC COLD WATER (POTABLE)	PSIG	POUNDS PER SQUARE INCH GAUGE
D	CONDENSATE DRAIN LINE	R	RED REDUCER
DIA	DIAMETER	RE:	REFERENCE
DIV	DIVISION	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
DN	DOWN	RPM	REVOLUTIONS PER MINUTE
DWGS	DRAWINGS	S	SAN SOIL & WASTE (ABOVE GRADE)
E	EFFIC EFFICIENCY	SCH	SCHEDULE
ELEC	ELECTRICAL	SM	SIMILAR
EXT	EXTERNAL	SQ FT	SQUARE FEET
EXT	EXTERNAL	SS	STAINLESS STEEL
F	DEGREES FAHRENHEIT	STL	STEEL
FCO	FLOOR CLEANOUT	STRUC	STRUCTURAL
FD	FLOOR DRAIN	T	TI TEMPERATURE INDICATOR (THERMOMETER)
FIN	FINISHED	TOT	TOTAL
FLEX	FLEXIBLE	TYP	TYPICAL
FLR	FLOOR	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
FT	FEET	U	UON UNLESS OTHERWISE NOTED
G	NATURAL GAS	V	V SANITARY VENT
GALV	GALVANIZED	VD	VOLUME DAMPER
GA	GAUGE	VTR	VENT THROUGH ROOF
GPH	GALLONS PER HOUR	W	WCO WALL CLEANOUT
GPM	GALLONS PER MINUTE	W/	WITH
H	HORSEPOWER		
HR	HOUR		
HW	DOMESTIC HOT WATER (140F)		
HWRP	HOT WATER RECIRCULATING PUMP		
HZ	HERTZ		

PLUMBING FIXTURE CONNECTION SCHEDULE						
MARK	DESCRIPTION	CONNECTION SIZE (IN.)				REMARKS
		CW	HW	WASTE	VENT	
WC-1	WATERCLOSET	1 1/2	-	4	2	FLOOR MOUNTED, FLUSHVALVE, STANDARD HEIGHT
WC-2	WATERCLOSET	1 1/2	-	4	2	FLOOR MOUNTED, FLUSHVALVE, ADA/TAS COMPLIANT
UR-1	URINAL	3/4	-	2	2	WALL HUNG (MOUNT ONE AT ADA HEIGHT- REFERENCE ARCH. DWGS)
LAV-1	LAVATORY	1/2	1/2	2	2	COUNTER MOUNTED
SK-1	DOUBLE COMPT. SINK	1/2	1/2	2	2	STAINLESS STEEL, SELF RIMMING, ADA/TAS COMPLIANT
EDF-1	ELECTRIC DRINKING FOUNTAIN	1/2	-	2	2	TWO-LEVEL
MS-1	MOP SINK	1/2	1/2	4	2	FLOOR MOUNTED, CONNECT TO MODIFIED ROUGH-IN
WB-1	WALL BOX	1/2	-	-	-	REFRIGERATOR ICE MAKER SUPPLY BOX
FD-1	FLOOR DRAIN	-	-	-	-	FINISHED AREA
-	-	-	-	-	-	-
-	-	-	-	-	-	-

ELECTRIC WATER HEATER SCHEDULE					
MARK	RECOVER GPH AT 100°F RISE	KW	VOLTS/ PHASE	STORAGE CAPACITY (GALLONS)	REMARKS
EW-1	15	3	208/1Ø	15	RHEEM NO. EGSP15
-	-	-	-	-	-
-	-	-	-	-	-



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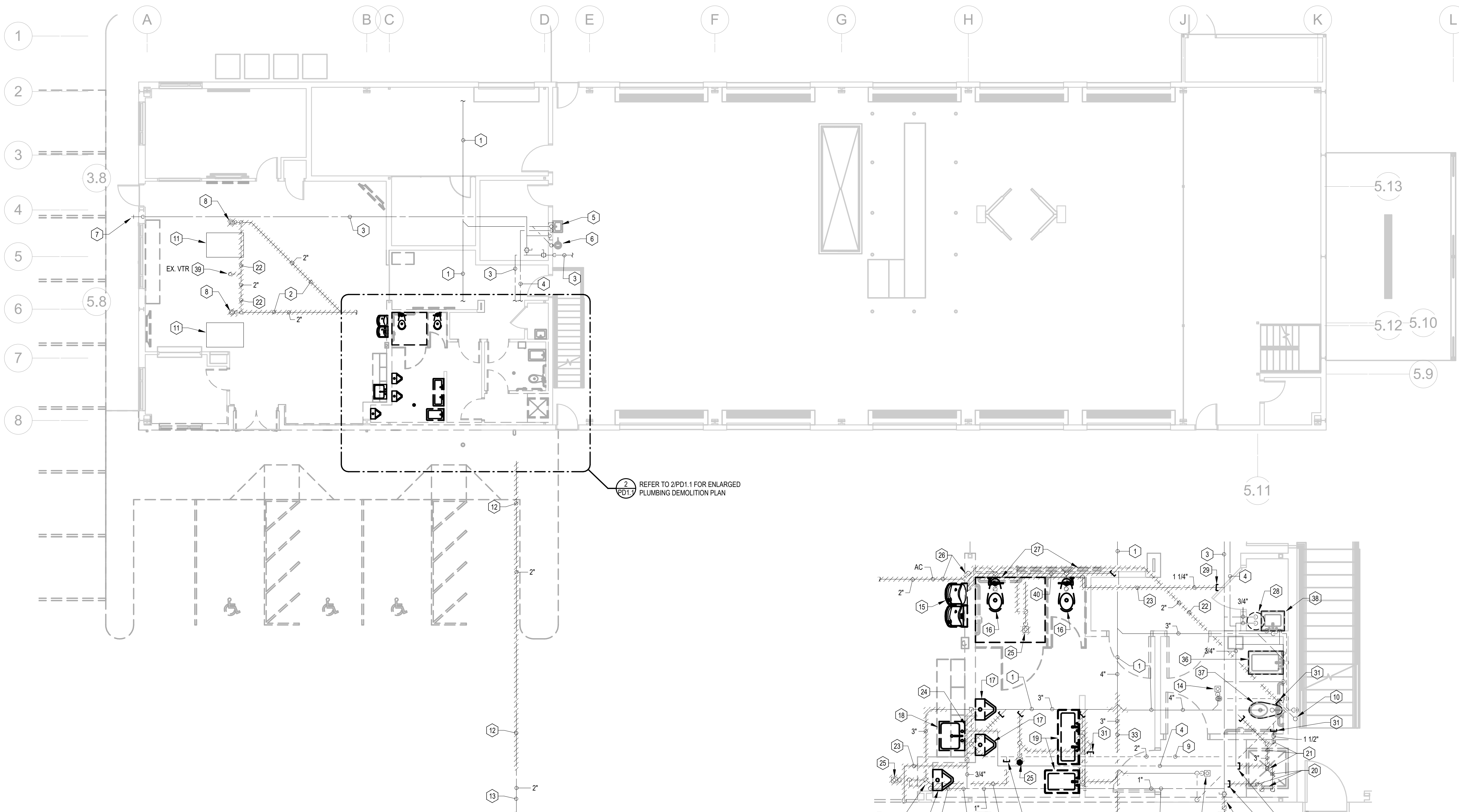


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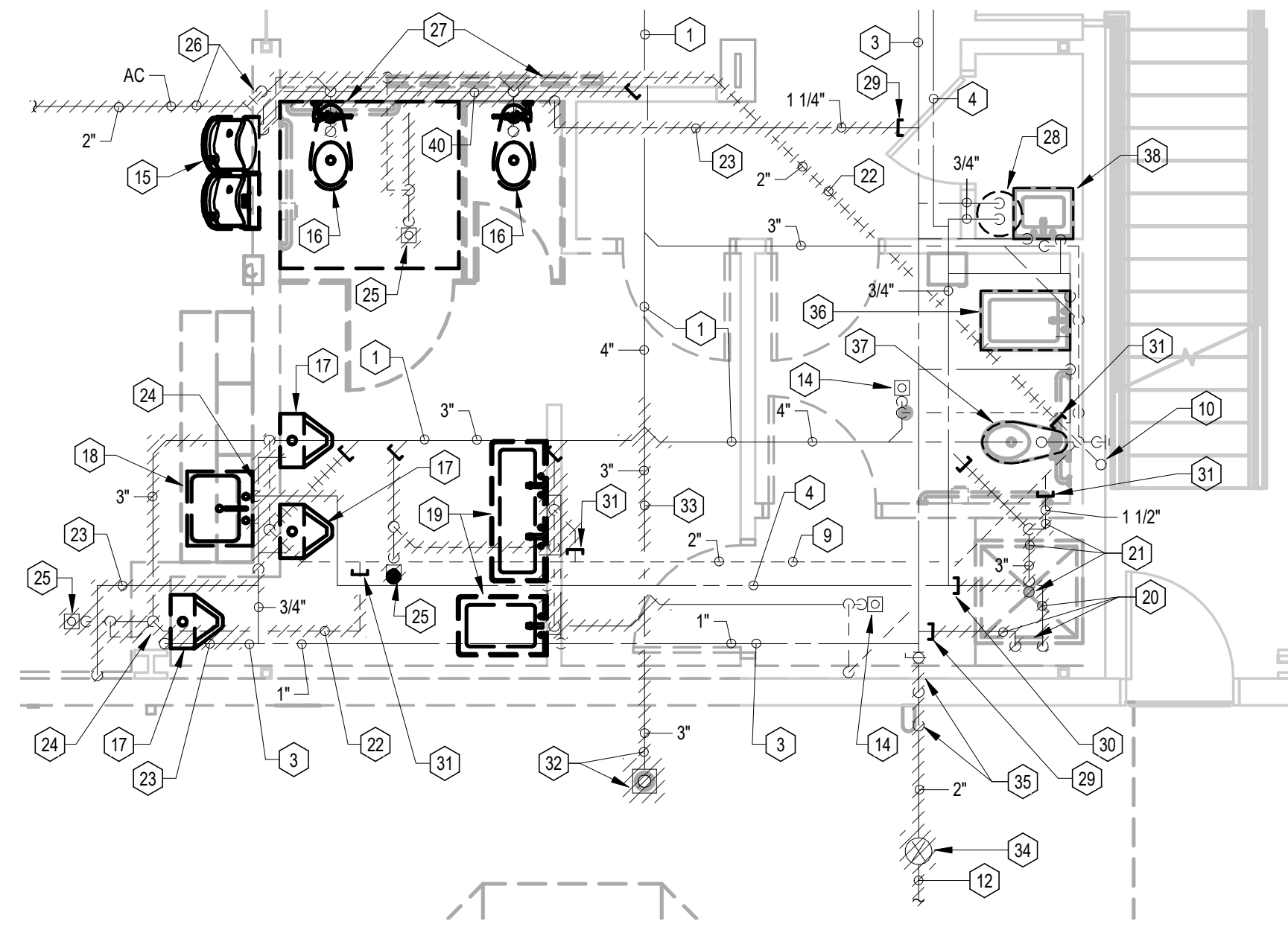
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P0.1  
PLUMBING SYMBOLS LEGEND

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**1 FLOOR PLAN - PLUMBING DEMOLITION**  
 PD1.1 1/8" = 1'-0"

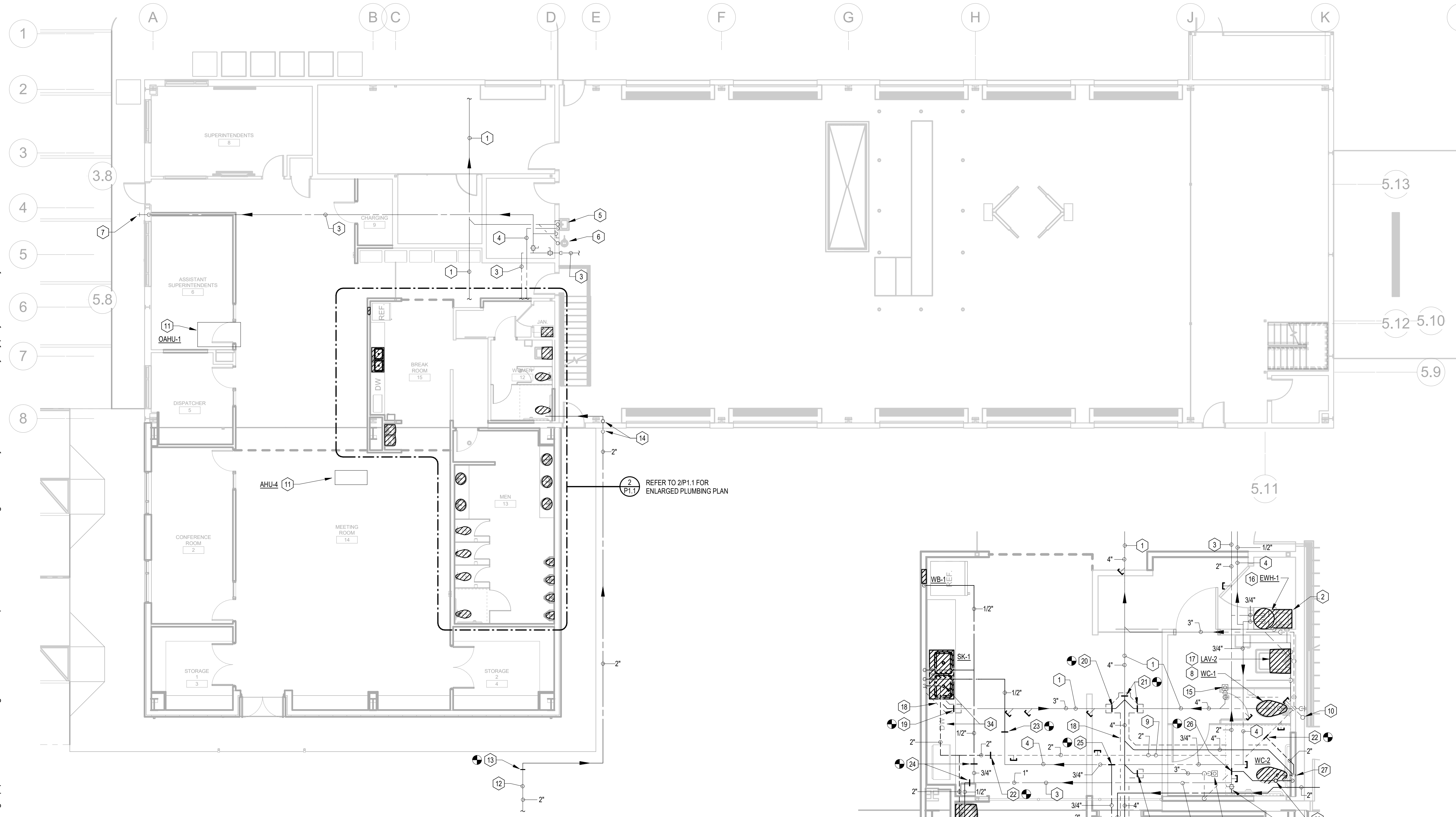


**2 ENLARGED FLOOR PLAN - DEMOLITION - PLUMBING**  
 PD1.1 1/4" = 1'-0"

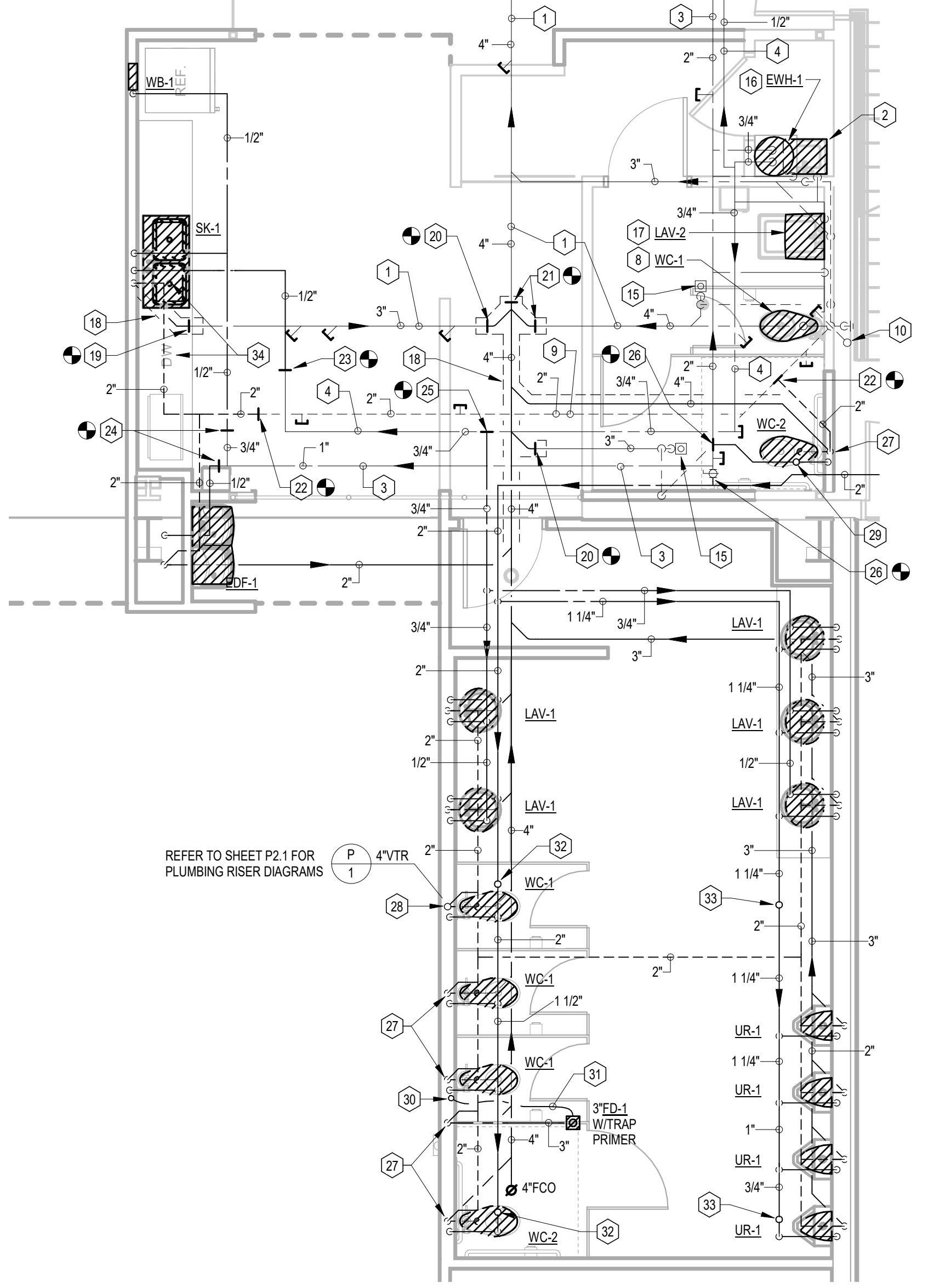
**PD1.1 KEYED NOTES**

- 1 EXISTING WASTE LINE TO REMAIN.
- 2 REMOVE WASTE PIPE ABOVE CEILING.
- 3 EXISTING CW LINE TO REMAIN.
- 4 EXISTING HW LINE TO REMAIN.
- 5 EXISTING PLUMBING FIXTURE TO REMAIN.
- 6 EXISTING EYEFACE WASH TO REMAIN.
- 7 EXISTING HOSE BIBB TO REMAIN
- 8 REMOVE HUB DRAIN ABOVE CEILING.
- 9 EXISTING VENT LINE TO REMAIN.
- 10 EXISTING VTR TO REMAIN.
- 11 EXISTING MECH EQUIPMENT TO BE REMOVED. REFER TO HVAC DWGS.
- 12 REMOVE EXISTING DOMESTIC WATER LINE AND REROUTE. SEE NEW WORK FOR REROUTING. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
- 13 EXISTING DOMESTIC WATER LINE TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
- 14 EXISTING FLOOR DRAIN TO REMAIN.
- 15 REMOVE EXISTING ELECTRIC DRINKING FOUNTAIN.
- 16 REMOVE WATER CLOSER AND FLUSHVALVE.
- 17 REMOVE URINAL AND FLUSHVALVE.
- 18 REMOVE EXISTING SINK STOPS AND TRIM
- 19 REMOVE EXISTING LAVATORY, STOPS AND TRIM. CAP ASSOCIATED HW, CW, WASTE IN WALL AND ABANDON.
- 20 REMOVE SHOWER AND ASSOCIATED HW & CW PIPING UP TO ABOVE CEILING.
- 21 REMOVE EXISTING SHOWER DRAIN, ASSOCIATED WASTE LINE BELOW FLOOR AND VENT ABOVE CEILING.
- 22 REMOVE EXISTING VENT ABOVE CEILING.
- 23 REMOVE EXISTING CW LINE ABOVE CEILING.
- 24 REMOVE EXISTING HW, CW WASTE & VENT PIPING IN WALL SERVING PLUMBING FIXTURES. CAP WASTE PIPE AT FLOOR AND ABANDON.
- 25 REMOVE EXISTING FLOOR DRAIN. CAP WASTE PIPE AT FLOOR AND ABANDON ASSOCIATED WASTE & VENT PIPING BELOW FLOOR.
- 26 REMOVE WASTE PIPE ABOVE CEILING DOWN TO BELOW FLOOR.
- 27 REMOVE EXISTING CW, WASTE & VENT PIPING IN WALL/CHASE SERVING PLUMBING FIXTURES. REMOVE OR ABANDON WASTE PIPE BELOW FLOOR.
- 28 REMOVE EXISTING ELECTRIC WATER HEATER MOUNTED OVERHEAD AND REPLACE WITH NEW. SEE NEW WORK.
- 29 CAP EXISTING CW LINE ABOVE CEILING.
- 30 CAP EXISTING HW LINE ABOVE CEILING.
- 31 CAP EXISTING VENT LINE ABOVE CEILING.
- 32 REMOVE EXISTING 1-WAY EXTERIOR CLEANOUT AND WASTE LINE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND DEPTH OF EXISTING WASTE LINE. NOTIFY A/E TEAM OF FINDINGS
- 33 REMOVE EXISTING WASTE PIPING BELOW FLOOR ALLOWING FOR CONNECTION OF NEW WASTE PIPING.
- 34 REMOVE EXISTING VALVE AND VALVE BOX.
- 35 REMOVE EXISTING DOMESTIC WATER SERVICE FROM BELOW GRADE TO ABOVE CEILING ALLOWING FOR CONNECTION OF NEW DOMESTIC WATER LINE. SEE NEW WORK
- 36 REMOVE EXISTING LAVATORY & REPLACE WITH NEW. MODIFY EXISTING ROUGH-IN AS REQUIRED FOR NEW LAVATORY. SEE NEW WORK.
- 37 REMOVE EXISTING WATER CLOSET INCLUDING FLUSH VALVE AND REPLACE WITH NEW. MODIFY EXISTING ROUGH-IN AS REQUIRED FOR NEW WATER CLOSET. SEE NEW WORK.
- 38 REMOVE EXISTING MOP SINK. MODIFY EXISTING ROUGH-IN FOR NEW MOP SINK.
- 39 CAP VENT AT ROOF.
- 40 REMOVE OR ABANDON WASTE PIPE BELOW FLOOR.

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**1 FLOOR PLAN - PLUMBING**  
 P1.1 1/8" = 1'-0"



**2 ENLARGED FLOOR PLAN - PLUMBING**  
 P1.1 1/4" = 1'-0"

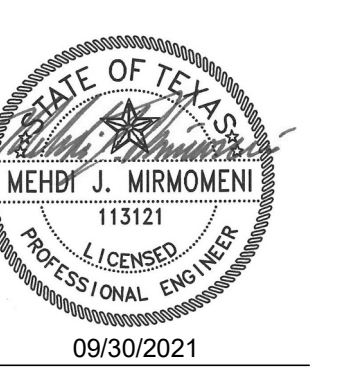
**P1.1 KEYED NOTES**

- 1 EXISTING WASTE LINE.
- 2 NEW MOP SINK. CONNECT TO MODIFIED ROUGH-IN.
- 3 EXISTING CW LINE.
- 4 EXISTING HW LINE.
- 5 EXISTING PLUMBING FIXTURE.
- 6 EXISTING EYEFACE WASH.
- 7 EXISTING HOSE BIBB.
- 8 NEW WATER CLOSET. CONNECT TO MODIFIED ROUGH-IN.
- 9 EXISTING VENT LINE.
- 10 EXISTING VTR.
- 11 HVAC EQUIPMENT. REFER TO HVAC DWGS.
- 12 EXISTING DOMESTIC WATER LINE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
- 13 CONNECT NEW 2" DOMESTIC WATER TO EXISTING DOMESTIC WATER BELOW GRADE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING WATER LINE.
- 14 2" DOMESTIC WATER RISE FROM BELOW GRADE EXTEND THROUGH WALL AND RISE TO OVERHEAD. FURNISH & INSTALL VALVE IN VERTICAL AT 3' AFF.
- 15 EXISTING FLOOR DRAIN
- 16 NEW ELECTRIC WATER HEATER MOUNT ON WALL OVERHEAD. RECONNECT EXISTING HW & CW LINES TO NEW ELECTRIC WATER HEATER. REFER TO DETAIL 1P2.1.
- 17 NEW LAVATORY. CONNECT TO MODIFIED ROUGH-IN
- 18 SAWCUT EXISTING FLOOR FOR ROUTING OF NEW WASTE PIPING. REFER TO DETAIL 3P2.1.
- 19 CONNECT NEW 2" WASTE PIPE TO EXISTING WASTE PIPE BELOW FLOOR.
- 20 CONNECT NEW 4" WASTE PIPE TO EXISTING 3" WASTE PIPE BELOW FLOOR.
- 21 CONNECT NEW 4" WASTE PIPE TO EXISTING 4" WASTE PIPE BELOW FLOOR.
- 22 CONNECT NEW 2" VENT TO EXISTING VENT.
- 23 CONNECT NEW 1/2" HW LINE TO EXISTING HW LINE ABOVE CEILING.
- 24 CONNECT NEW 1/2" CW LINE TO EXISTING CW LINE ABOVE CEILING.
- 25 CONNECT NEW 3/4" HW LINE TO EXISTING HW LINE ABOVE CEILING.
- 26 CONNECT NEW 1 1/2" CW LINE TO EXISTING CW LINE ABOVE CEILING.
- 27 2" VENT RISE FROM BELOW FLOOR EXTEND TO ABOVE CEILING.
- 28 4" VENT RISE FROM BELOW FLOOR EXTEND TO 4" VTR.
- 29 PDI SIZE "A" SHOCK ARRESTOR.
- 30 EXTEND 1/2" TRAP PRIMER LINE FROM TRAP PRIMER CONNECTION ON WATER CLOSET FLUSHVALVE TAILPIECE TO BELOW FLOOR & ROUTE TO TRAP PRIMER CONNECTION ON FLOOR DRAIN. REFER TO DETAIL 2P2.1.
- 31 TRAP PRIMER LINE BELOW FLOOR SHALL BE 1/2" SEAMLESS COPPER.
- 32 PDI SIZE "D" SHOCK ARRESTOR
- 33 PDI SIZE "B" SHOCK ARRESTOR
- 34 EXTEND 1/2" HW LINE WITH BALL VALVE FROM SINKS HW ROUGH-IN TO DISHWASHER HW CONNECTION. EXTEND DISHWASHER DRAIN LINE THROUGH AIR GAP FITTING & ROUTE TO SINK'S TAILPIECE.



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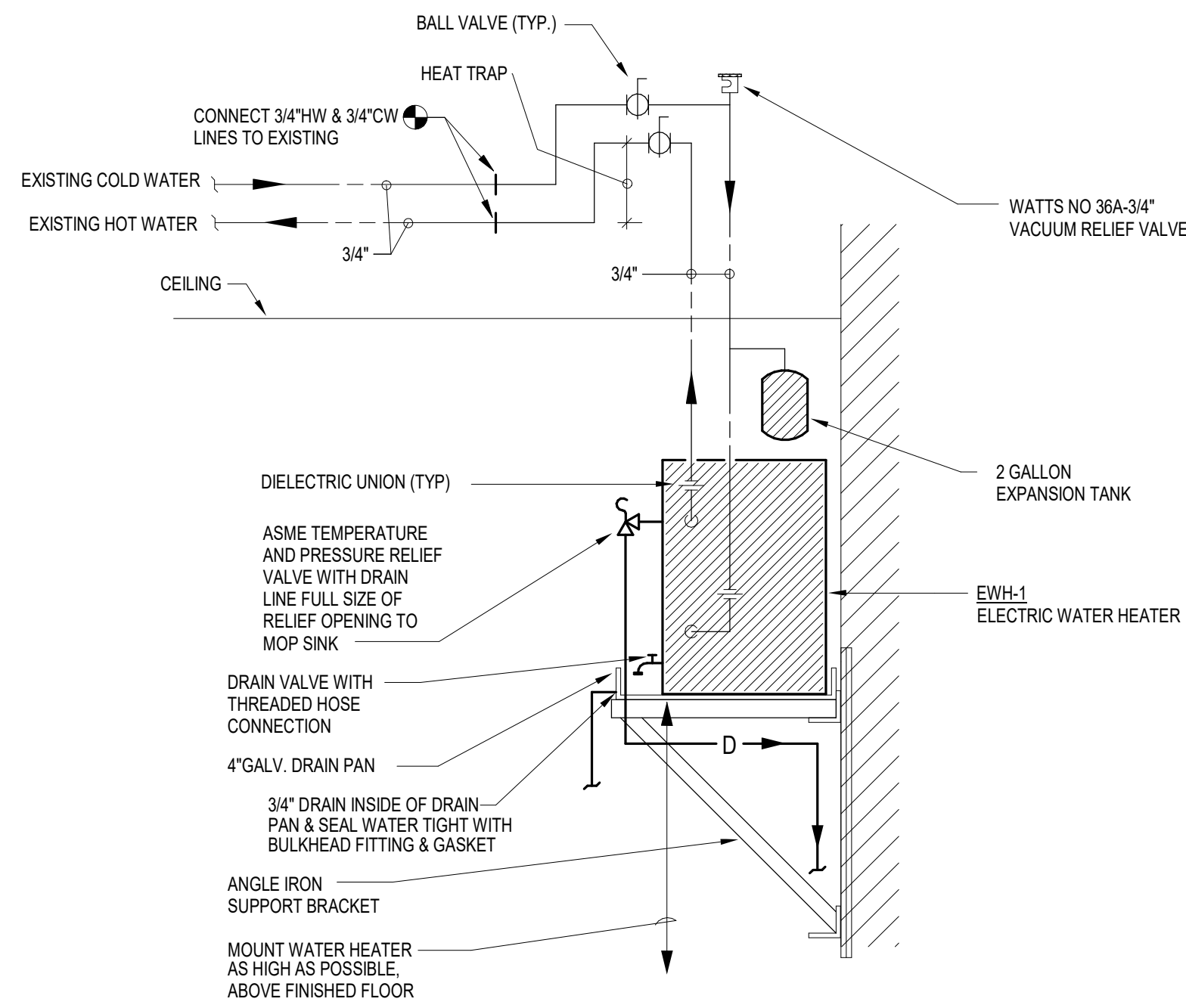
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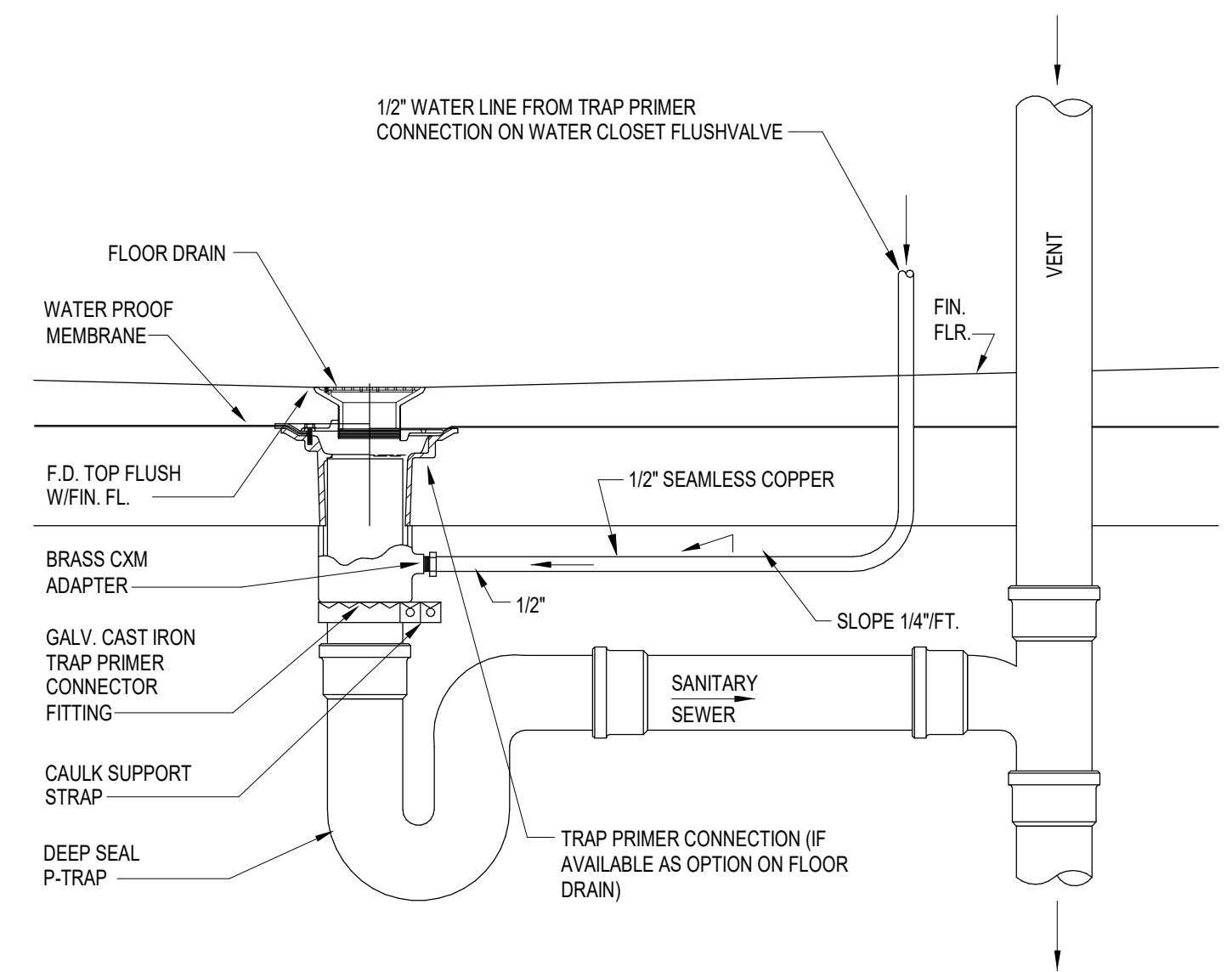
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**P1.1**  
 FLOOR PLAN - PLUMBING

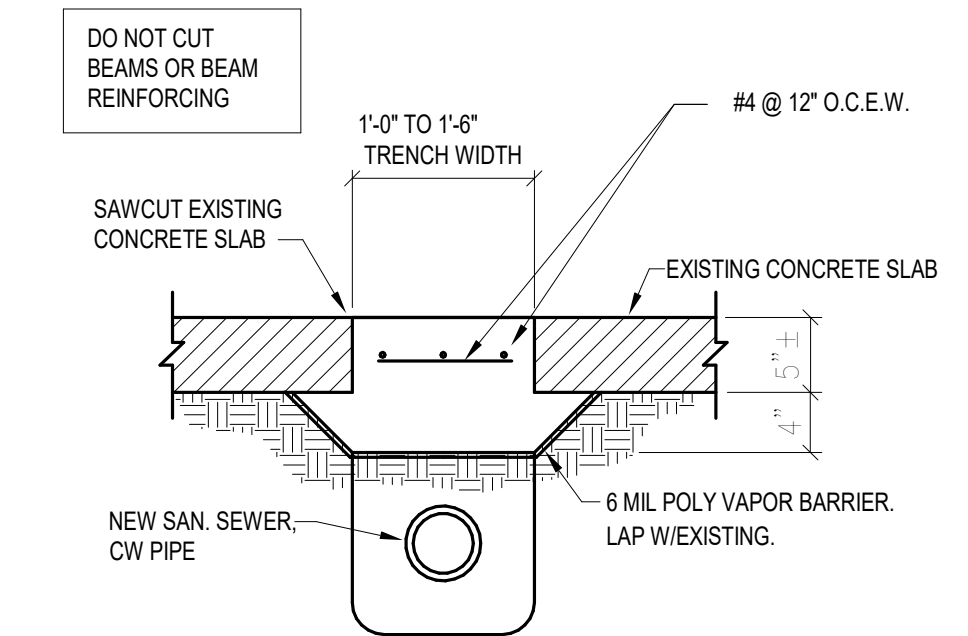




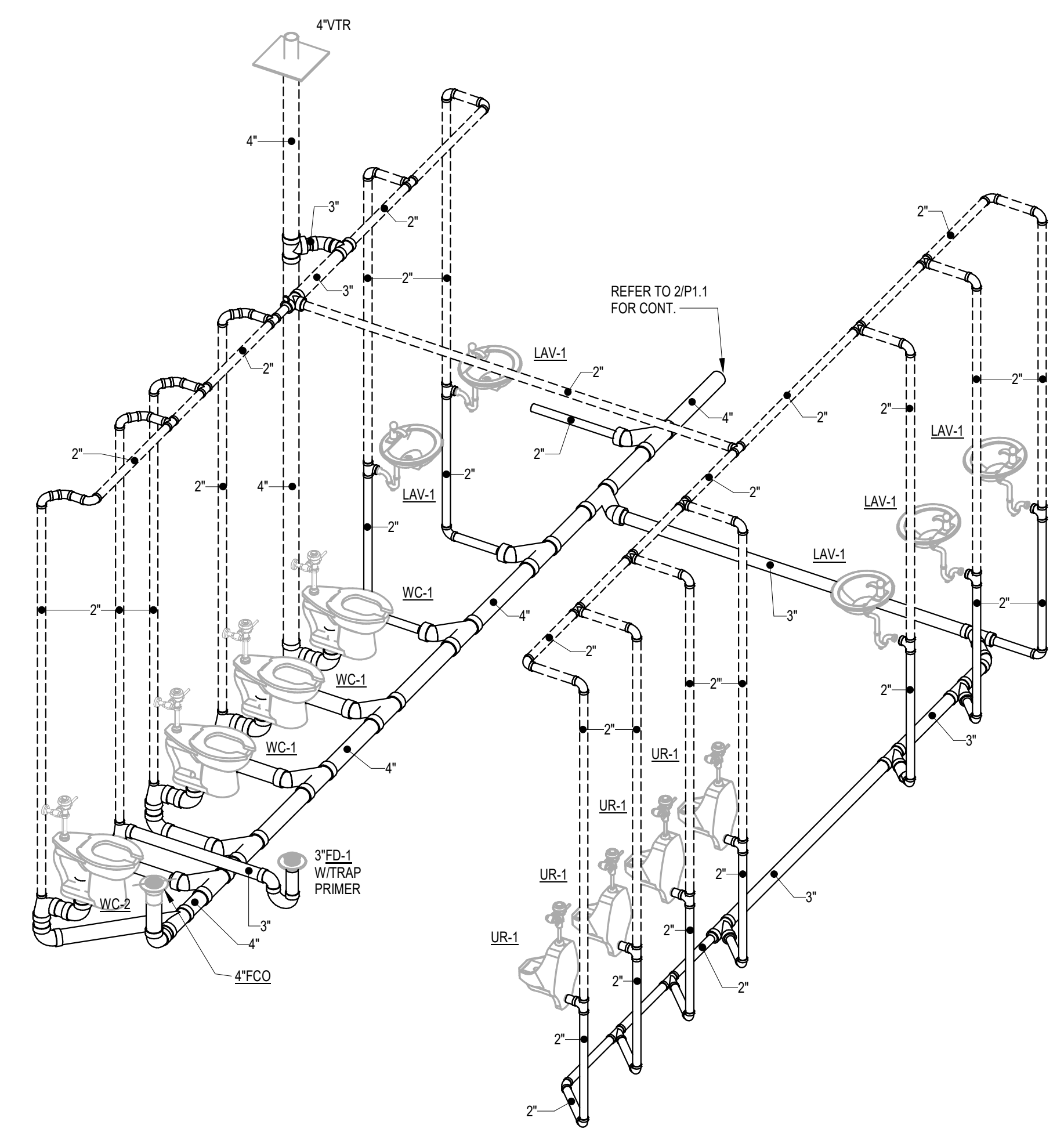
**1 ELECTRIC WATER HEATER DETAIL**  
P2.1 NOT TO SCALE



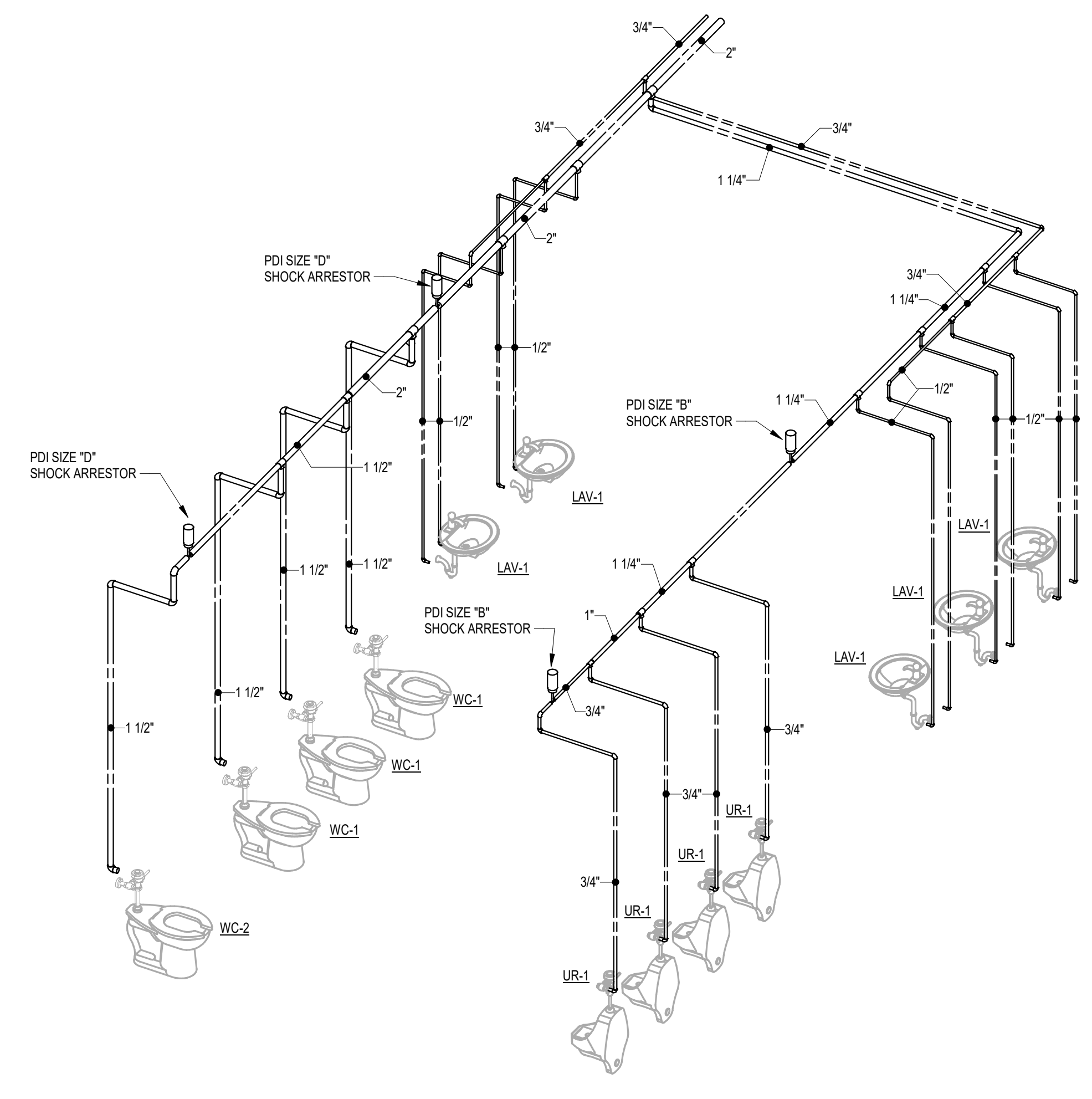
**2 TRAP PRIMER DETAIL**  
P2.1 NOT TO SCALE



**3 PIPE IN TRENCH DETAIL**  
P2.1 NOT TO SCALE



**4 P/1 WASTE & VENT RISER DIAGRAM**  
P2.1



**5 P/1 HOT & COLD WATER RISER DIAGRAM**  
P2.1

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# ELECTRICAL LEGEND

(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)

SYMBOLS	ELECTRICAL NOTES	ABBREVIATIONS
<b>LIGHTING</b> A LED LIGHT FIXTURE, LETTER(S) DENOTES TYPE. B LED LIGHT FIXTURE, LETTER(S) DENOTES TYPE, BRACKET $\perp$ WHEN USED INDICATES WALL MOUNTED. X EXIT LIGHT FIXTURE, LETTER(S) DENOTES TYPE, ARROW(S) WHEN USED, INDICATE DIRECTION OF CHEVRONS, SHADED AREAS INDICATE FACE(S), BRACKET $\perp$ WHEN USED INDICATES WALL MOUNTED. S SINGLE POLE SWITCH, INSTALL 48" AFF UON. S <sub>K</sub> KEYED SINGLE POLE SWITCH, INSTALL 48" AFF UON. S <sub>2</sub> DOUBLE POLE SWITCH, INSTALL 48" AFF UON. S <sub>3</sub> THREE-WAY SWITCH, INSTALL 48" AFF UON. S <sub>4</sub> FOUR-WAY SWITCH, INSTALL 48" AFF UON. S <sub>P</sub> SWITCH AS DESCRIBED ABOVE WITH RED PILOT LIGHT, LIGHTED WHEN "ON" UON, INSTALL 48" AFF UON. S <sub>WP</sub> SWITCH WITH WEATHER PROOF COVER, INSTALL 48" AFF UON. S <sub>D</sub> DIMMER, 600W UON, INSTALL 48" AFF UON. OS OCCUPANCY SENSOR SWITCH, WATT STOPPER DT-300 WITH POWER PACK, UON, CEILING MOUNTED, UON, (USE WATT STOPPER DT-205 FOR WALL MOUNT.) S <sub>IR</sub> OCCUPANCY SENSOR SWITCH, WATT STOPPER PW-100, WALL MOUNTED IN SWITCH BOX AT 48" AFF UON. S <sub>T</sub> TIMER SWITCH, WATT STOPPER TS-400, WALL MOUNTED IN SWITCH BOX AT 48" AFF UON.	<b>DISTRIBUTION &amp; CONTROLS</b> ELECTRICAL PANELBOARD (480Y/277 VOLT). ELECTRICAL PANELBOARD (208Y/120 VOLT). B ENCLOSED CIRCUIT BREAKER, RATING AND NO. OF POLES AS INDICATED. NON-FUSED DISCONNECT SWITCH, 30A/3P NEMA 1 UON. 30A = SWITCH RATING, 3P = NO. OF POLES, NEMA 1 = ENCLOSURE STYLE. FUSED DISCONNECT SWITCH, 30A/3P NEMA 1 UON, FUSE SIZE AS NOTED. 30A = SWITCH RATING, 3P = NO. OF POLES, NEMA 1 = ENCLOSURE STYLE. MAGNETIC MOTOR STARTER, SIZE 1, NEMA 1 UON. X <sub>1</sub> COMBINATION DISCONNECT AND MAGNETIC STARTER, SIZE 1, NEMA 1 UON. CONTROLLER PROVIDED WITH EQUIPMENT (HVAC, ELEVATOR, ETC.) INSTALLED BY DIVISION 16. S <sub>M</sub> MANUAL MOTOR STARTER WITH THERMAL OVERLOAD(S) UON, SIZED PER ACTUAL NAMEPLATE RATING. C OR $\perp$ CONTACTOR, RATING AND NO. OF POLES AS INDICATED. PE PHOTO-ELECTRIC SWITCH, INSTALL WITH SENSOR ELEMENT FACING NORTH, FLUSH MOUNTED WHERE POSSIBLE, UON. TS TIME SWITCH. J JUNCTION BOX. M MOTOR. MD MOTORIZED DAMPER. OR $\perp$ TRANSFORMER, RATING AS INDICATED. CURRENT TRANSFORMER, RATING AND NO. AS INDICATED. DRAW-OUT POWER CIRCUIT BREAKER, RATING AND NO. OF POLES, AS INDICATED. THERMAL AND/OR MAGNETIC CIRCUIT BREAKER, RATING AND NO. OF POLES AS INDICATED. FUSE, RATING AS INDICATED. SURGE ARRESTER, RATING AS INDICATED. MFM DIGITAL SOLID STATE MULTI-FUNCTION METER. M UTILITY COMPANY REVENUE METER UON. PUSHBUTTON, TYPE AS SPECIFIED ON DRAWING. SELECTOR SWITCH. E EQUIPMENT CONNECTION, COORDINATE WITH MANUFACTURERS' REPRESENTATIVE. SPD SURGE PROTECTION DEVICE SYSTEM. PB PULL BOX, SIZE PER NEC, UON.	<b>GENERAL ELECTRICAL NOTES</b> (APPLIES TO ALL DRAWINGS.) <b>GENERAL DEMOLITION NOTES</b> 1. DEMOLISH ALL ELECTRICAL EQUIPMENT SHOWN OR NOTED TO BE REMOVED. 2. ALL EXPOSED CONDUIT WHETHER OPEN OR WITHIN CEILING PLENUM SHALL BE REMOVED. CONDUIT THAT IS ENCLOSED WITHIN WALLS, FLOOR OR BURIED SHALL BE CUT OFF AND ABANDONED IN PLACE. 3. ALL CONDUCTORS INCLUDING BUT NOT LIMITED TO FEEDER, BRANCH CIRCUIT AND SPECIAL SYSTEMS SHALL BE REMOVED FROM THEIR CONDUIT/HOUSING, UNLESS OTHERWISE STATED. 4. ALL ELECTRICAL EQUIPMENT REMOVED SHALL BE RETURNED TO THE OWNER. 5. EQUIPMENT TO BE REUSED/RELOCATED SHALL BE REMOVED, PROPERTY STORED AND KEPT SAFE AND REINSTALLED AS SHOWN. 6. EXISTING SYSTEMS/DEVICES SUCH AS FIRE ALARM, INTERCOMPAGE, NURSE CALL SHALL BE TESTED PRIOR TO ANY DEMOLITION AND DETERMINED TO BE FULLY OPERATIONAL. ANY DEFICIENCIES MUST BE NOTED IN THE PRESENCE OF AN OWNERS AGENT. <b>GENERAL FIRE ALARM SYSTEM</b> 1. THE FIRE ALARM SYSTEM/RENOVATION SHALL BE DESIGNED BY A LICENSED FIRE ALARM SYSTEM CONTRACTOR. ANY FIRE ALARM SYSTEM DEVICES THAT ARE SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. 2. MATCH EXISTING EQUIPMENT AS APPLICABLE. 3. GENERAL REQUIREMENT OF THE FIRE ALARM SYSTEM IS SHOWN. THE NOTES AND SPECIFICATION SECTION ARE PERFORMANCE BASED. 4. SUCCESSFUL FIRE ALARM SYSTEM CONTRACTOR WILL BE RESPONSIBLE TO DESIGN THE FIRE ALARM SYSTEM DRAWINGS, OBTAIN APPROVAL FROM THE FIRE MARSHAL FOR THE PROJECT AND PERFORM ALL REQUIRED TESTING.
<b>WIRING DEVICES</b> DUPLEX RECEPTACLE, 18" AFF UON. (C INDICATES CEILING MOUNTED), NEMA 5-20R, UON. GFI WP DUPLEX RECEPTACLE WITH INTERNAL GROUND FAULT PROTECTION, INSTALL 18" AFF UON. (WP INDICATES WEATHERPROOF). IG ISOLATED GROUND DUPLEX RECEPTACLE, INSTALL 18" AFF UON. QUADRUPLEX RECEPTACLE AS DESCRIBED ABOVE, 18" AFF UON. CLK SIMPLEX RECEPTACLE, INSTALL 96" AFF UON. 'CLK' INDICATES CLOCK HANGER RECEPTACLE, INSTALL 96" AFF UON. SPECIAL PURPOSE RECEPTACLE, SIZE AND NEMA CONFIGURATION AS INDICATED, INSTALL 18" AFF UON. RECEPTACLE AS DESCRIBED ABOVE, INSTALLED IN A FLUSH FLOOR BOX. DUPLEX RECEPTACLE HORIZONTALLY MOUNTED 6" ABOVE COUNTER TOP, UON. COMBINATION RECEPTACLE AND TELE/DATA OUTLET INSTALLED IN FLUSH FLOOR BOX.	<b>FIRE ALARM SYSTEM</b> FACP FIRE ALARM CONTROL PANEL. ANN FIRE ALARM REMOTE ANNUNCIATOR. F FIRE ALARM MANUAL STATION, INSTALL 48" AFF. SD FIRE ALARM AREA SMOKE DETECTOR, INSTALL ON CEILING UON. "F" INDICATES UNDER RAISED FLOOR. SD <sub>D</sub> DUCT MOUNTED SMOKE DETECTOR. H FIRE ALARM FIXED-TEMPERATURE RATE-OF-RISE HEAT DETECTOR, 135°C UON. AV FIRE ALARM AUDIO/VISUAL DEVICE, INSTALL 80" AFF, UON. V FIRE ALARM VISUAL DEVICE, INSTALL 80" AFF, UON. FS SPRINKLER SYSTEM FLOW SWITCH BY DIVISION 21. SS SPRINKLER SYSTEM SUPERVISORY SWITCH BY DIVISION 21. FISD COMBINATION FIRE AND SMOKE DAMPER BY DIVISION 21. DH MAGNETIC DOOR HOLDER.	<b>ABBREVIATIONS</b> A AMPERE AC ABOVE COUNTER AF AMP FRAME/AMP FUSE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHU AIR HANDLING UNIT AIC AMPERE INTERRUPTING CAPACITY ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE B BFG BELOW FINISHED GRADE BPS BOLTED PRESSURE SWITCH C CONDUIT CB CIRCUIT BREAKER CF COMPACT FLUORESCENT CFOI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CKT CIRCUIT CLG CEILING CPS CPS ENERGY CTS CURRENT TRANSFORMERS CU CONDENSING UNIT OR COPPER D DEMO DEMOLITION DISC DISCONNECT SWITCH DGP DATA GATHERING PANEL E EACH EA EMPTY CONDUIT EDF ELECTRIC DRINKING FOUNTAIN EWC ELECTRIC WATER COOLER EF EXHAUST FAN ELEC ELECTRICAL EMT ELECTRICAL METALLIC TUBING EPO EMERGENCY POWER OFF EQUIP EQUIPMENT EWH ELECTRIC WATER HEATER EXIST EXISTING F FACP FIRE ALARM CONTROL PANEL FCU FAN COIL UNIT FLA FULL LOAD AMPS G GEC GROUNDING ELECTRODE CONDUCTOR GEN GENERATOR OR GENERAL GFI/GFCI GROUND FAULT CIRCUIT INTERRUPTER GND GROUND GRS GALVANIZED RIGID STEEL H HID HIGH INTENSITY DISCHARGE HPS HIGH PRESSURE SODIUM I IDS INTRUSION DETECTION SYSTEM IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS IMC INTERMEDIATE METAL CONDUIT INC INCANDESCENT IPS INTERRUPTIBLE POWER SUPPLY K KAIC THOUSAND AMP INTERRUPTING CAPACITY RMS SYMMETRICAL KCMIL THOUSAND CIRCULAR MILS KVA THOUSAND VOLT AMPERE KW KILOWATT L LRA LOCKED ROTOR AMPS LSI LONG TIME/SHORT TIME INSTANTANEOUS TRIP SETTINGS INCLUDED WITH CIRCUIT BREAKER LSIG L.T./S.T./I.T./GROUND FAULT TRIP SETTINGS INCLUDED WITH CIRCUIT BREAKER M MCA MINIMUM CIRCUIT AMPERES MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MFR MANUFACTURER MLO MAIN LUGS ONLY MOCP MAXIMUM OVERCURRENT PROTECTION N NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NECA NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NIC NOT IN CONTRACT NL NIGHT LIGHT NO NUMBER OR NORMALLY OPEN NTS NOT TO SCALE O OFOI OWNER FURNISHED, CONTRACTOR INSTALLED OFOW OWNER FURNISHED, OWNER INSTALLED P PH PHASE PNL PANELBOARD R RCPT RECEPTACLE REP REPRESENTATIVE REQD REQUIRED RLA RUNNING LOAD AMPERES RTU ROOF TOP UNIT S SC SPLIT BRANCH CIRCUIT INDICATES REFERENCED BRANCH CIRCUIT HAS MORE THAN ONE HOMERUN DESIGNATION SHOWN SQ FT SQUARE FEET T TEL TELEPHONE TV TELEVISION TYP TYPICAL U UH UNIT HEATER UON UNLESS OTHERWISE NOTED UPS UNINTERRUPTIBLE POWER SUPPLY V V VOLT VA VOLT AMPERE VFD VARIABLE FREQUENCY/SPEED DRIVE W W WIRE W WITH W/O WITHOUT WP WEATHERPROOF X XFMR TRANSFORMER XMTR TRANSMITTER XFER TRANSFER SWITCH Z %Z PERCENT IMPEDANCE
<b>CONDUIT AND WIRE</b> CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR, OR ABOVE SUSPENDED CEILING. CONDUIT RUN IN OR BELOW SLAB OR GROUND. SWITCH LEG. LA-1 HOMERUN TO PANEL AND BRANCH CIRCUIT AS INDICATED. BRANCH CIRCUIT SHALL BE MINIMUM #12 AWG AND #12 GROUND, 1/2" U.N.O ON DRAWINGS OR SPECIFICATIONS. E EMPTY CONDUIT WITH PULLING LINE, SIZE AS INDICATED. CAPPED CONDUIT. CONDUIT TURNED UP. CONDUIT TURNED DOWN. SURFACE MOUNTED MULTI-OUTLET ASSEMBLY, 6" ABOVE COUNTER TOP, UON. CABLE TRAY PP POWER/DATA POLE	<b>COMMUNICATIONS AND DATA</b> TELEPHONE TERMINAL BOARD, 4' X 8' X 3/4" THICK, UON. DATA OUTLET, INSTALL 18" AFF UON, 4" SQUARE BOX WITH A SINGLE DEVICE PLASTER RING AND 3/4" WITH PULLING LINE STUBBED OUT TO ABOVE NEAREST ACCESSIBLE CEILING. COMBINATION TELEPHONE AND DATA OUTLET, INSTALL 18" AFF UON, 4" SQUARE BOX WITH A SINGLE DEVICE PLASTER RING AND 3/4" WITH PULLING LINE STUBBED OUT TO ABOVE NEAREST ACCESSIBLE CEILING. OUTLET AS DESCRIBED ABOVE, INSTALLED IN A FLUSH FLOOR BOX. OUTLET BOX WITH 3/4" CONDUIT WITH PULLING LINE STUBBED OUT TO ABOVE ACCESSIBLE CEILING FOR CATV, INSTALL 18" AFF, UON. CR CARD READER	
<b>GROUNDING</b> 3/4" DIAMETER BY 10'-0" LONG COPPER CLAD GROUND ROD. G GROUND CONDUCTOR, SIZE AS INDICATED. GROUND CONNECTION. GROUND BUS AS NOTED ON DRAWINGS AND SPECIFICATIONS		
<b>SITE</b> -UP- UNDERGROUND PRIMARY ELECTRIC UTILITY -US- UNDERGROUND SECONDARY ELECTRIC UTILITY -UT- UNDERGROUND TELEPHONE UTILITY HA LIGHTING STANDARD WITH LUMINAIRE, LETTERS DENOTE TYPE. UTILITY POLE T PAD MOUNTED UTILITY SERVICE TRANSFORMER P PRECAST MANHOLE OR HANDHOLE AS INDICATED FOR POWER (P) OR COMMUNICATIONS (C) CABLES, SIZE AS NOTED.		



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Project NO.: 21014  
Date: 09/30/2021  
Revisions:

# E0.1

ELECTRICAL SYMBOLS LEGEND



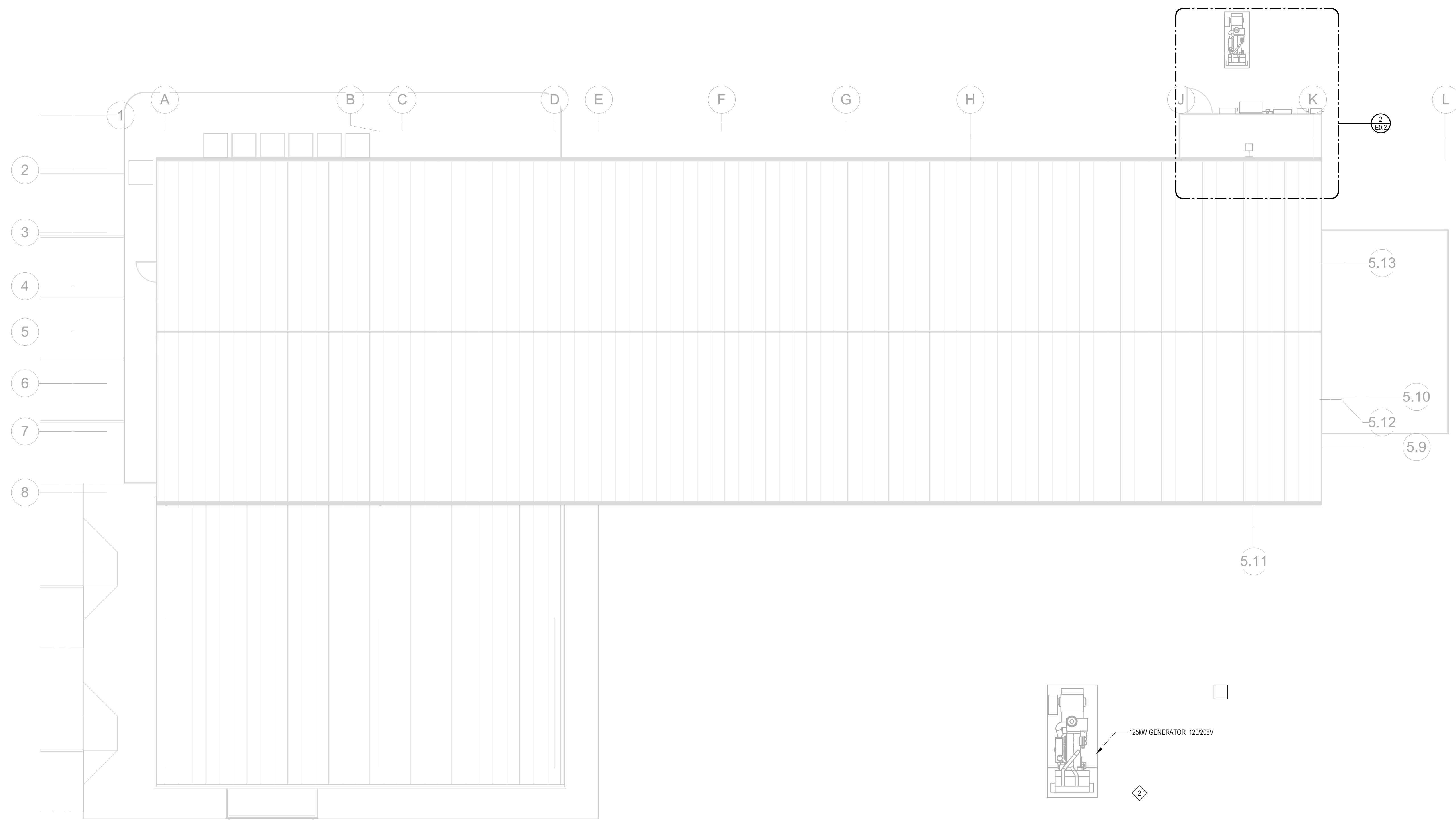
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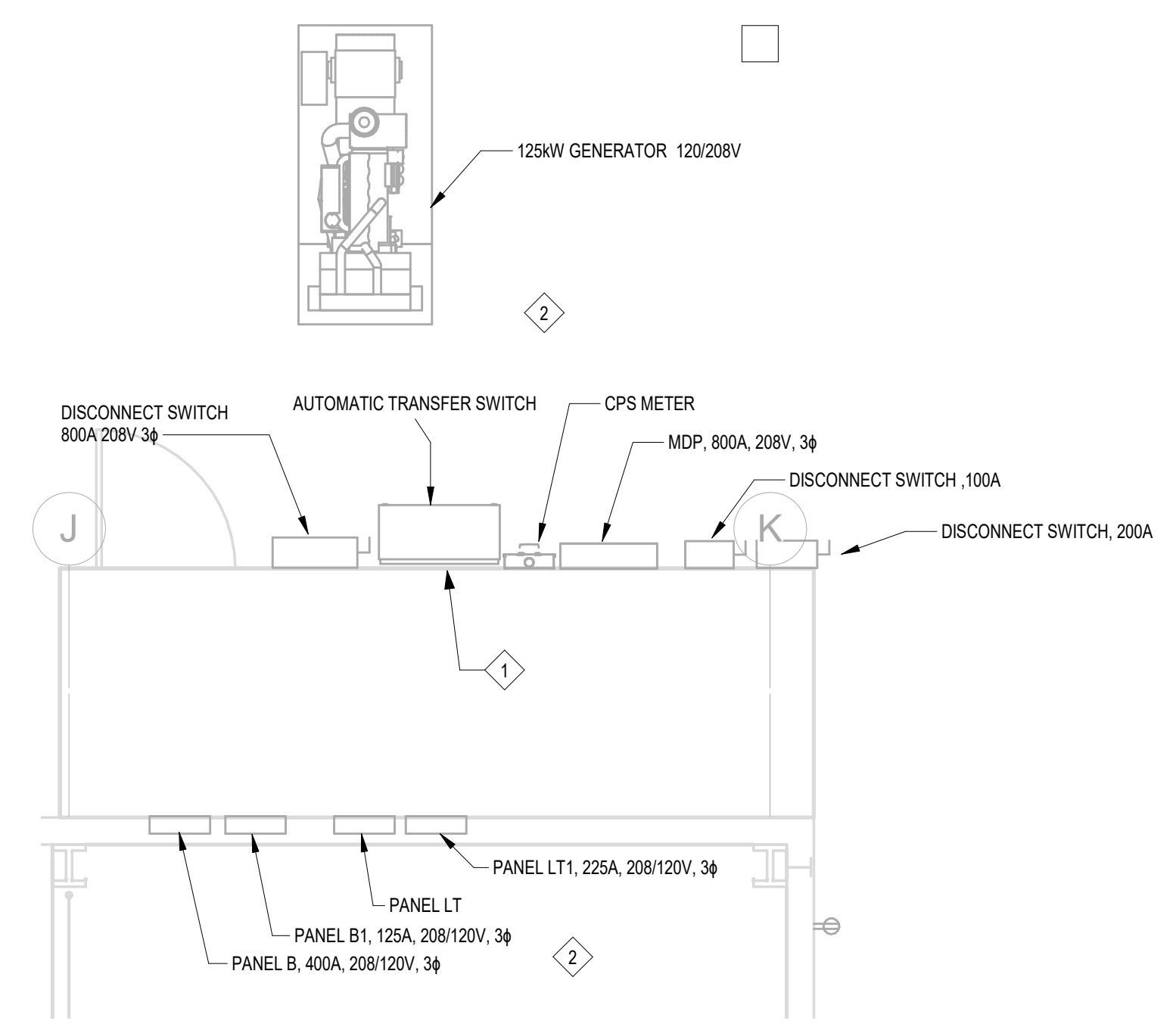
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**E0.2 - KEYED NOTES**

- 1 SOLID CORE TRANSFORMER LOCATED IN OVERHEAD SERVICE ENTRANCE
- 2 ALL ELECTRICAL EQUIPMENT SHOWN IN AREA IS EXISTING



**1 SITE PLAN - POWER & SIGNAL**  
 E0.2 1/8" = 1'-0"



**2 SITE PLAN - ELECTRICAL PANELS**  
 E0.2 1/4" = 1'-0"



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**E0.2**  
 SITE PLAN - POWER & SIGNAL

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LIGHTING FIXTURE SCHEDULE						
TYPE MARK	MANUFACTURER	MODEL	LAMP	VOLTAGE	VA	MOUNTING
A	LITHONIA LIGHTING	2BLT4 48L ADP LP840	LED	120	38 VA	CEILING RECESSED
B	LITHONIA LIGHTING	2BLT2 40L ADP LP840	LED	120	31 VA	CEILING RECESSED
C	LITHONIA LIGHTING	LDN6	LED	120	21 VA	CEILING RECESSED
D	LITHONIA LIGHTING	TWP LED ALO 50K	LED	120	72 VA	EXTERIOR SURFACE WALL
X1	LITHONIA LIGHTING	EXGR	LED	120	1 VA	EXIT LIGHTING

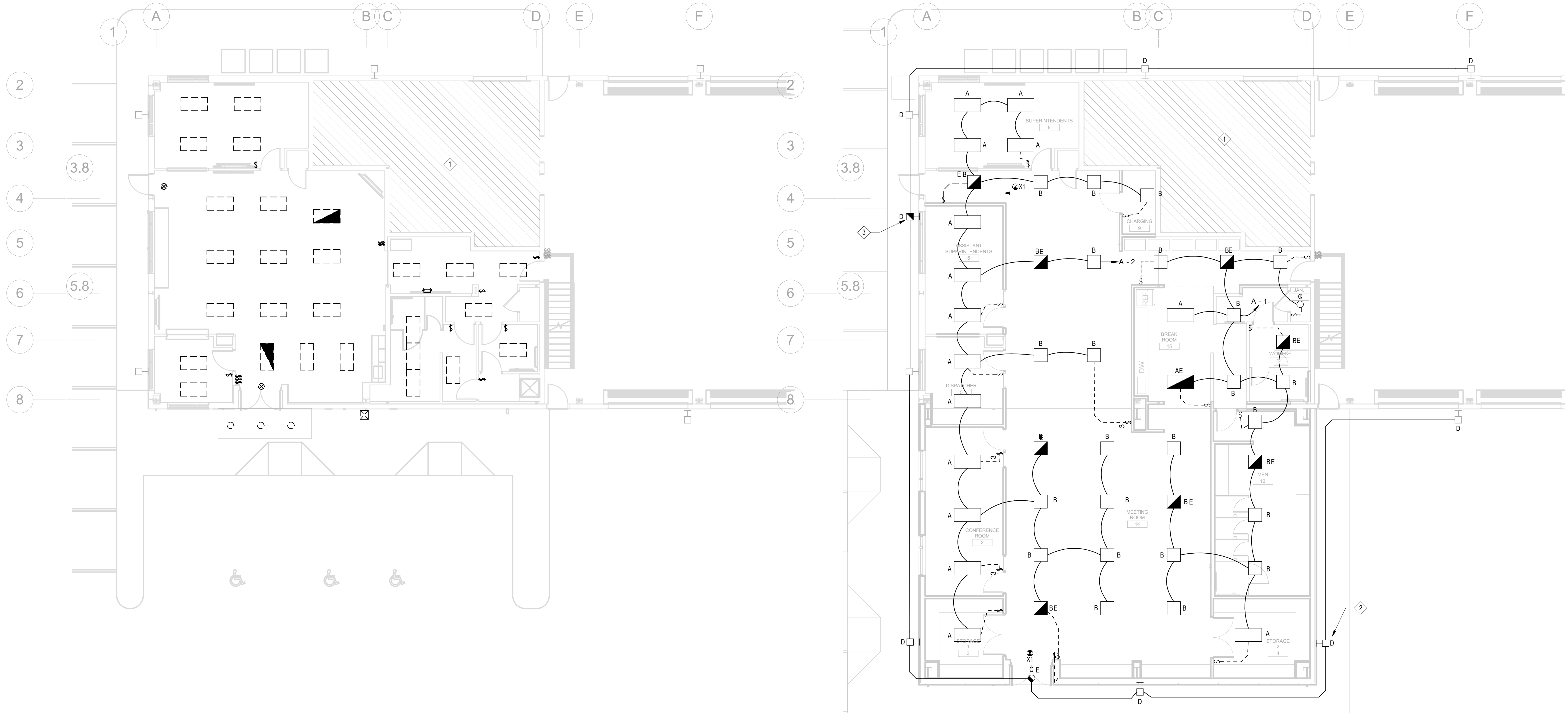
NOTES: E SUFFIX LIGHT FIXTURES SHALL BE THE TYPE INDICATED WITH INTEGRAL 90 MINUTES BATTERY INVERTER FOR EMERGENCY LIGHTING.

CONNECT EXIT LIGHT TO NEAREST LIGHTING CIRCUIT UNSWITCHED

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM COMPATIBILITY BETWEEN THE CEILING TYPE, AS DEFINED ON THE ARCHITECTURAL ROOM FINISH SCHEDULE, AND THE LIGHT FIXTURE TRIM AS DEFINED ON THE FIXTURE SCHEDULE. NO CHANGES OR DEVIATIONS SHALL BE MADE FROM THE CONTRACT DOCUMENTS, HOWEVER, WITHOUT WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT.

**E1.1 - KEYED NOTES**

- AREA NOT IN SCOPE OF WORK
- CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUIT FOR EXISTING EXTERIOR LIGHTING
- CONTRACTOR TO MATCH NEW LIGHTING FIXTURE FINISH WITH EXISTING EXTERIOR LIGHT FIXTURES



**1 FLOOR PLAN - LIGHTING DEMOLITION**  
 E1.1 1/8" = 1'-0"

**2 FLOOR PLAN - LIGHTING**  
 E1.1 1/8" = 1'-0"



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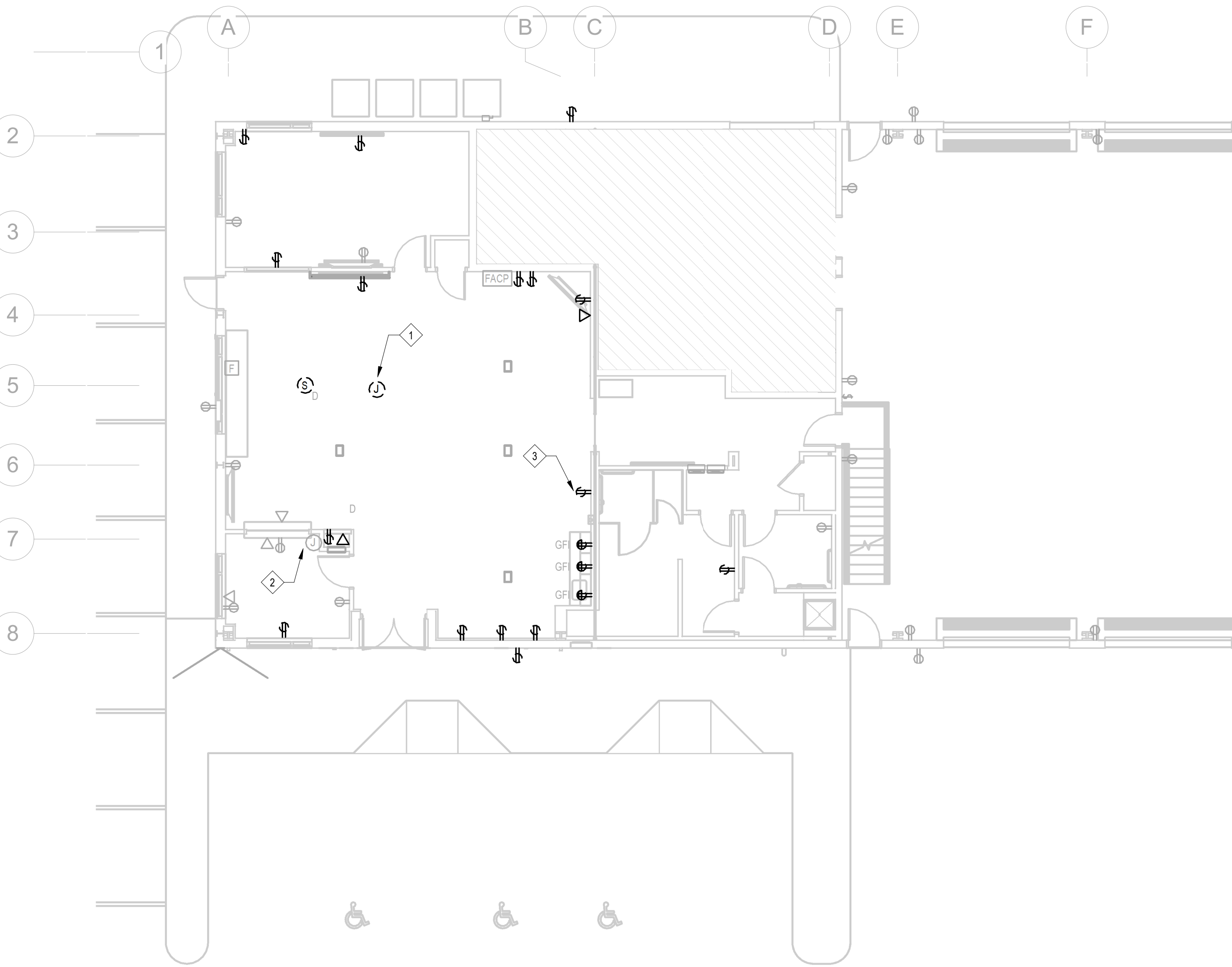
**E1.1**  
 FLOOR PLAN - LIGHTING

**E2.1 DEMOLITION KEYED NOTES**

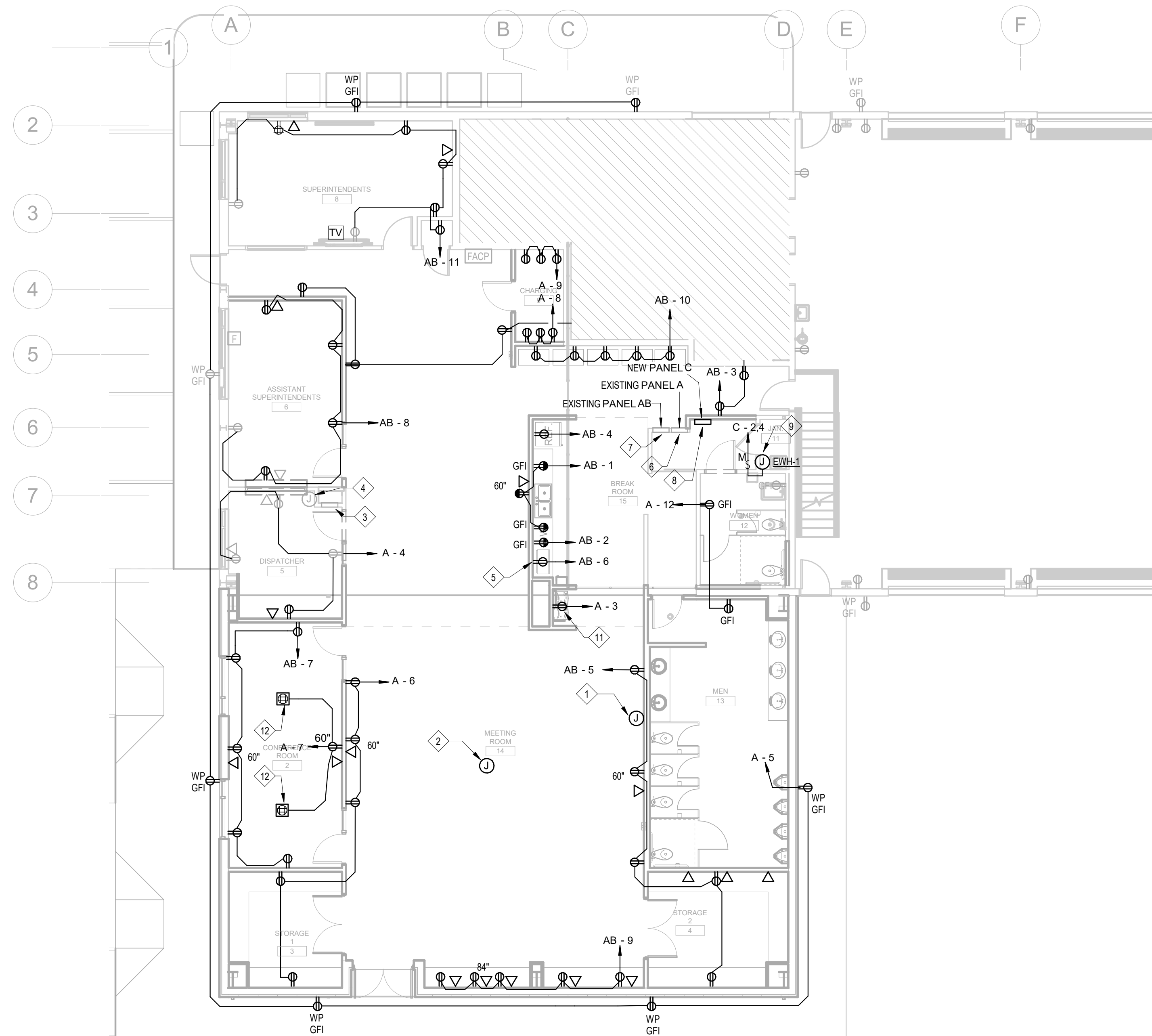
- 1 EXISTING POWER CONNECTION FOR PROJECTOR TO BE REMOVED.
- 2 EXISTING TLS-350 TANK GUAGING SYSTEM TO REMAIN.
- 3 EXISTING RECEPTACLE FOR DRINKING FOUNTAIN TO BE DEMOLISHED

**E2.1 KEYED NOTES**

- 1 POWER CONNECTION FOR ROLL DOWN SCREEN MOUNTED ON CEILING. VERIFY WITH ARCHITECT FOR EXACT LOCATION.
- 2 POWER CONNECTION FOR PROJECTOR MOUNTED ON CEILING. VERIFY WITH ARCHITECT FOR EXACT LOCATION.
- 3 EXISTING PANEL "FUEL" 208/120/3 PHASE 4W 225A.
- 4 EXISTING TLS-350 TANK GUAGING SYSTEM TO REMAIN.
- 5 POWER CONNECTION FOR MICROWAVE. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT
- 6 EXISTING PANEL "A" 208/120V 3 PHASE 4W 225A.
- 7 EXISTING PANEL "AB" 208/120V 3 PHASE 4W 100A.
- 8 NEW PANEL "C" 120/208V 100A 3 PHASE 4W.
- 9 POWER CONNECTION FOR ELECTRIC WATER HEATER. 208V 3kw
- 10 EXISTING POWER CONNECTION FOR CONDENSING UNIT
- 11 PROVIDE GFCI CIRCUIT BREAKER AT PANEL
- 12 PROVIDE HUBBELL SYSTEM ONE FLUSH FLOOR BOX WITH (2) DUPLEX AND (2) IT PORTS. PROVIDE 3/4 CONDUIT FROM EACH TO ABOVE CEILING



**2 FLOOR PLAN - POWER DEMOLITION**  
E2.1 1/8" = 1'-0"

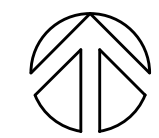
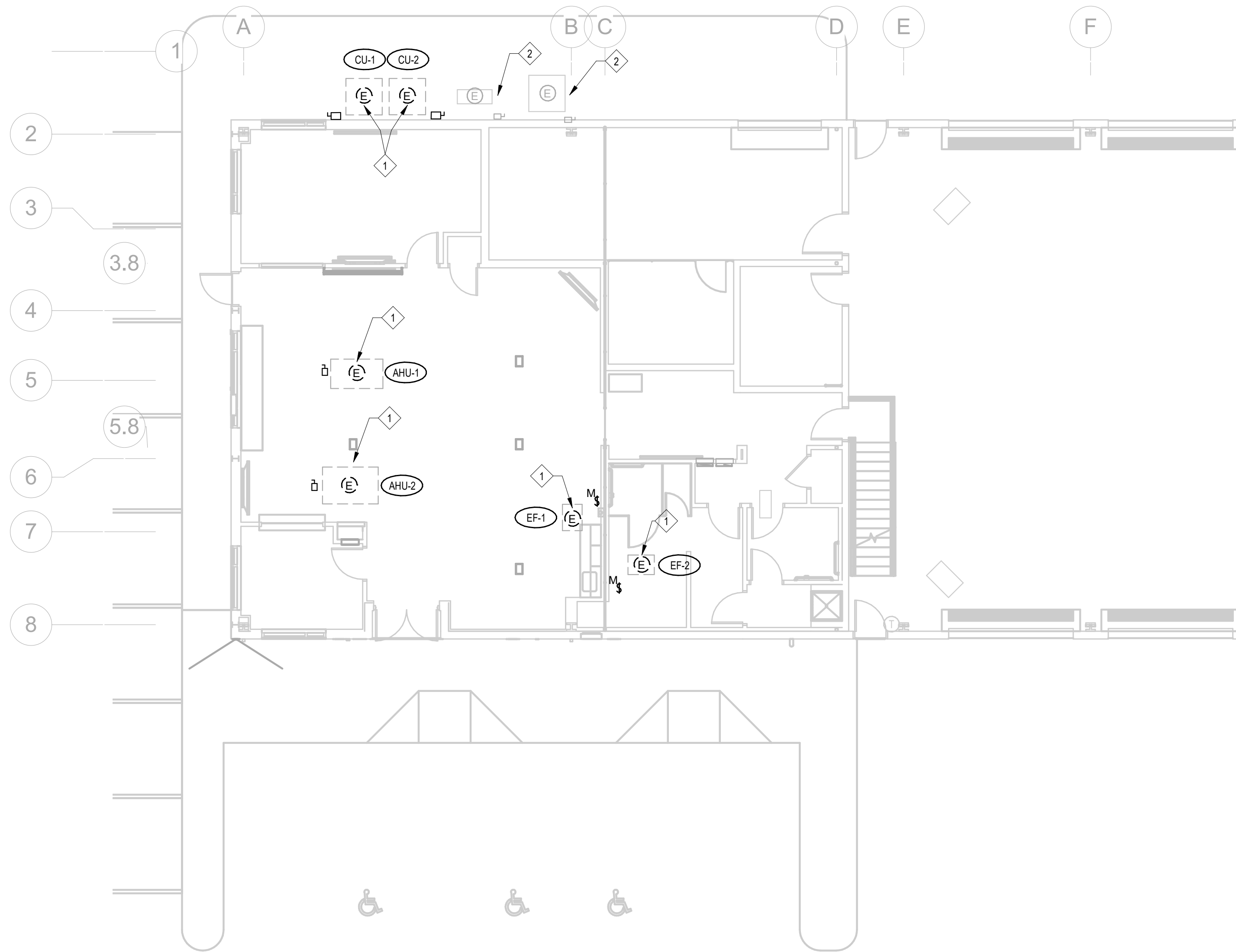


**1 FLOOR PLAN - POWER & SIGNAL**  
E2.1 1/8" = 1'-0"



**E3.1 DEMOLITION KEYED NOTES**

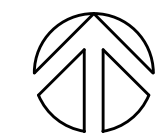
- 1 EXISTING POWER CONNECTION FOR MECHANICAL UNIT AND DISCONNECTING DEVICE TO BE DEMOLISHED
- 2 EXISTING POWER CONNECTION FOR CONDENSING UNIT TO REMAIN. UNIT TO BE RECONNECTED TO A NEW CIRCUIT BREAKER IN NEW PANEL C



**2 FLOOR PLAN - LEVEL 1 - HVAC POWER DEMOLITION**  
E3.1 1/8" = 1'-0"

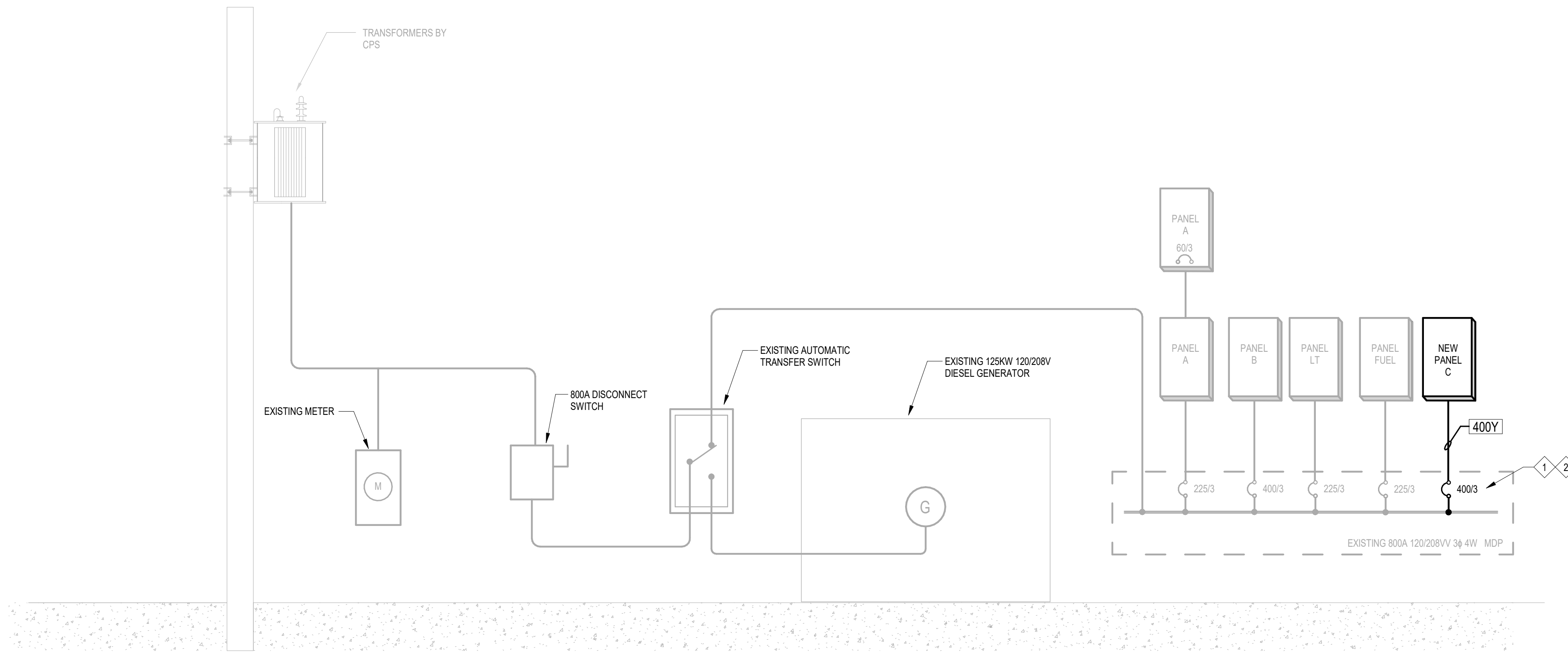
**E3.1 KEYED NOTES**

- 1 EXISTING POWER CONNECTION FOR CONDENSING UNITS TO BE CONNECTED TO A NEW CIRCUIT BREAKER IN NEW PANEL C
- 2 PROVIDE A 60A N.F NEMA 1 DISCONNECT SWITCH AND 3/4" CONDUIT WITH 4#8 & 1#10G
- 3 PROVIDE A 30A N.F NEMA 1 DISCONNECT SWITCH AND 3/4" CONDUIT WITH 4#10 & 1#10G
- 4 PROVIDE 30A N.F NEMA 3R DISCONNECT SWITCH
- 5 PROVIDE A 30A N.F NEMA 3R DISCONNECT SWITCH AND 3/4" CONDUIT WITH 4#10 & 1#10G
- 6 PROVIDE A 30A N.F NEMA 3R DISCONNECT SWITCH AND 3/4" CONDUIT WITH 4#10 & 1#10G



**1 FLOOR PLAN - HVAC POWER**  
E3.1 1/8" = 1'-0"





**1 ONE LINE DIAGRAM**  
E4.1 NOT TO SCALE

**E4.1 KEYED NOTES**

- 1 INSTALL NEW CIRCUIT BREAKER IN AVAILABLE SPACE
- 2 PROVIDE 400A RATED ELECTRICAL CONTACTOR TO BE INTERFACED WITH ATS AND TO CONTROL PANEL C. CONTACTOR SHALL BE CLOSED WHEN ON UTILITY POWER, AND WHEN ON GENERATOR CONTACTOR SHALL BE OPEN

ELECTRICAL LOAD SUMMARY 120/208 VOLT, 3PHASE, 4W 800 AMP	
LOAD DESCRIPTION	CONNECTED LOAD (KVA)
* EXISTING LOAD 58 KW X 1.25 PER NEC 2020, ARTICLE 220.87	90.63
<b>LOADS REMOVED:</b>	
LIGHTING	3.00
RECEPTACLES	2.16
HVAC	28.82
<b>TOTAL - LOAD REMOVED</b>	<b>34.0</b>
<b>LOADS ADDED:</b>	
LIGHTING	1.59
RECEPTACLE	53.99
HVAC	57.87
<b>TOTAL - LOAD ADDED</b>	<b>113</b>
<b>TOTAL - REVISED LOAD KVA</b>	<b>170</b>
<b>TOTAL - REVISED LOAD A</b>	<b>472</b>

THE EXISTING 800AMPS SERVICE IS ADEQUATE FOR ADDITIONAL LOADS  
 \* THIS IS THE MAXIMUM PEAK LOAD READY/PROVIDE FROM ELECTRIC UTILITY COMPANY TO HMG & ASSOCIATES.  
 \*\*PER NEC 2020, ARTICLE 220.44

COPPER FEEDER SCHEDULE							
FEEDER SYMBOL	# OF SETS	CONDUCTORS	CONDUIT SIZE	FEEDER SYMBOL	# OF SETS	CONDUCTORS	CONDUIT SIZE
60Y	1	4#6 & 1#10 G	1"	60D	1	3#6 & 1#10 G	1"
100Y	1	4#1 & 1#8 G	1 1/4"	100D	1	3#1 & 1#8 G	1 1/4"
225Y	1	4#4/0 & 1#4 G	2 1/2"	225D	1	3#4/0 & 1#4 G	2"
400Y	1	4-600KCM & 1#3 G	4"	400D	1	3#600KCM & 1#3 G	3 1/2"



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<b>PANEL: MDP</b>														
Location: EXTERIOR														
Supply From: MAIN SERVICE														
Mounting: Surface														
Enclosure: NEMA 3R														
			Volts: 120/208 Wye			A.I.C. Rating: 22 KIAC								
			Phases: 3			Mains Type: M.L.O								
			Wires: 4			Mains Rating: 800 A								
			MCB Rating: NA											
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT				
1	SPACE	--	--	0 VA	0 VA			3	400 A	EXISTING PANEL B	2			
3	SPACE	--	--		0 VA	0 VA		--	--	--	4			
5	SPACE	--	--			0 VA	0 VA	--	--	--	6			
7	EXISTING PANEL A	225 A	3	6727 VA	0 VA	7120 VA	0 VA	3	225 A	EXISTING FUEL PANEL	8			
9	--	--	--					--	--	--	10			
11	--	--	--					6860 VA	0 VA	--	12			
13	NEW PANEL PANEL C	400 A	3	30762 VA	0 VA	31278 VA	0 VA	3	225 A	SPARE	14			
15	--	--	--					--	--	--	16			
17	--	--	--			32152 VA	0 VA	--	--	--	18			
19	SPARE	225 A	3	0 VA	0 VA			3	100 A	EXISTING PANEL LT	20			
21	--	--	--					--	--	--	22			
23	--	--	--					0 VA	0 VA	--	24			
25	SPACE	--	--	0 VA	0 VA			--	--	SPACE	26			
27	SPACE	--	--		0 VA	0 VA		--	--	SPACE	28			
29	SPACE	--	--			0 VA	0 VA	--	--	SPACE	30			
31	SPACE	--	--	0 VA	0 VA			--	--	SPACE	32			
33	SPACE	--	--		0 VA	0 VA		--	--	SPACE	34			
35	SPACE	--	--			0 VA	0 VA	--	--	SPACE	36			
37	SPACE	--	--	0 VA	0 VA			--	--	SPACE	38			
39	SPACE	--	--		0 VA	0 VA		--	--	SPACE	40			
41	SPACE	--	--			0 VA	0 VA	--	--	SPACE	42			
<b>Total Load:</b>				37.49 KVA	38.40 KVA	39.01 KVA								
<b>Total Amps:</b>				312 A	321 A	326 A								

<b>EXISTING PANEL: A</b>														
Location: BREAKROOM 115														
Supply From: PANEL MDP														
Mounting: Surface														
Enclosure: NEMA 1														
			Volts: 120/208 Wye			A.I.C. Rating: 10 KAIC								
			Phases: 3			Mains Type: M.L.O								
			Wires: 4			Mains Rating: 225 A								
			MCB Rating: NA											
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT				
1	RESTROOMS/ KITCHEN LIGHTING	20 A	1	600 VA	987 VA			1	20 A	MAIN AREA/OFFICE LIGHTING	2			
3	DRINKING FOUNTAIN	20 A	1		1000 VA	1080 VA		1	20 A	DISPATCH RCPT	4			
5	EXTERIOR RCPT	20 A	1			1260 VA	900 VA	1	20 A	HALLWAY RCPT	6			
7	RCPT CONFERENCE ROOM	20 A	1	900 VA	540 VA			1	20 A	RCPT CHARGING ROOM	8			
9	RCPTCHARGING ROOM	20 A	1		540 VA	0 VA		--	--	SPACE	10			
11	PROJECTOR	20 A	1			1000 VA	360 VA	1	20 A	RCPT RESTROOMS	12			
13	SPACE	--	--	0 VA	0 VA			--	--	SPACE	14			
15	SPACE	--	--		0 VA	0 VA		--	--	SPACE	16			
17	SPACE	--	--			0 VA	0 VA	--	--	SPACE	18			
19	SPACE	--	--			0 VA	0 VA	--	--	SPACE	20			
21	SPACE	--	--	0 VA	0 VA			--	--	SPACE	22			
23	SPACE	--	--		0 VA	0 VA		--	--	SPACE	24			
25	SPACE	--	--	0 VA	0 VA			--	--	SPACE	26			
27	SPACE	--	--			0 VA	0 VA	--	--	SPACE	28			
29	SPACE	--	--			0 VA	0 VA	1	20 A	FIRE CONTROL PANEL	30			
31	SPACE	--	--	0 VA	0 VA			--	--	SPACE	32			
33	SPACE	--	--		0 VA	0 VA		--	--	SPACE	34			
35	SPACE	--	--			0 VA	0 VA	--	--	SPACE	36			
37	SPACE	--	--	0 VA	0 VA			--	--	SPACE	38			
39	SPACE	--	--		4500 VA	0 VA		2	40 A	FRONT GATE SUB-PANEL	40			
41	--	--	--			3340 VA	0 VA	--	--	--	42			
<b>Total Load:</b>				6.73 KVA	7.12 KVA	6.86 KVA								
<b>Total Amps:</b>				56 A	60 A	57 A								

<b>Branch Panel: C</b>														
Location: BREAK ROOM 115														
Supply From: MDP														
Mounting: Surface														
Enclosure: NEMA 1														
			Volts: 120/208 Wye			A.I.C. Rating: 10 KAIC								
			Phases: 3			Mains Type: M.L.O								
			Wires: 4			Mains Rating: 400 A								
			MCB Rating:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	EF-1	20 A	1	1200 VA	250 VA			2	20 A	WATER HEATER	2			
3	SPARE	20 A	1		0 VA	250 VA		--	--	--	4			
5	CU-5	20 A	2					2	25 A	CU-4	6			
7	--	--	--	1311 VA	1592 VA			--	--	--	8			
9	AHU-1	20 A	2		4619 VA	2042 VA		3	30 A	CU-2	10			
11	--	--	--		4619 VA	2042 VA		--	--	--	12			
13	CU-3	25 A	2	1779 VA	2042 VA			--	--	--	14			
15	--	--	--		1779 VA	2072 VA		3	20 A	CU-1	16			
17	CU-4	35 A	3			2443 VA	2072 VA	--	--	--	18			
19	--	--	--	2443 VA	2072 VA			--	--	--	20			
21	--	--	--		2443 VA	2594 VA		3	40 A	OACU-1	22			
23	AHU-3	30 A	3			3059 VA	2594 VA	--	--	--	24			
25	--	--	--	3059 VA	2594 VA			--	--	--	26			
27	--	--	--		3059 VA	3075 VA		3	20 A	ACU-2	28			
29	AHU-4	20 A	3			3079 VA	3075 VA	--	--	--	30			
31	--	--	--	3079 VA	3075 VA			--	--	--	32			
33	--	--	--		3079 VA	6269 VA		3	60 A	OAHU-1	34			
35	SPARE	20 A	1			0 VA	6269 VA	--	--	--	36			
37	SPARE	20 A	1	0 VA	6269 VA			--	--	--	38			
39	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	40			
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	42			
43	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	44			
45	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	46			
47	SPACE	--	--			0 VA	0 VA	1	20 A	SPACE	48			
49	SPACE	--	--	0 VA	0 VA			--	--	SPACE	50			
51	SPACE	--	--		0 VA	0 VA		--	--	SPACE	52			
53	SPACE	--	--			0 VA	0 VA	--	--	SPACE	54			
<b>Total Load:</b>				30762 VA	31278 VA	32152 VA								
<b>Total Amps:</b>				256 A	261 A	269 A								

<b>EXISTING PANEL: AB</b>														
Location: BREAKROOM 115														
Supply From: PANEL A														
Mounting: Surface														
Enclosure: NEMA 1														
			Volts: 120/208 Wye			A.I.C. Rating: 10 KAIC								
			Phases: 3			Mains Type: M.L.O								
			Wires: 4			Mains Rating: 100 A								
			MCB Rating: NA											
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT				
1	COUNTER RCPT	20 A	1	540 VA	1000 VA			1	20 A	COFFEE MAKER	2			
3	MAIN AREA RECP	20 A	1		900 VA	1200 VA		1	20 A	FRIDGE	4			
5	RCPT ROOM 14	20 A	1			900 VA	1000 VA	1	20 A	MICROWAVE	6			
7	WATER FOUNTAIN	20 A	1	1020 VA	1140 VA			1	20 A	RM6 RECP	8			
9	RM14 COMPUTER RECP	20 A	1		1500 VA	900 VA		1	20 A	RCPT HALL	10			
11	RM8 RECP	20 A	1			1440 VA	0 VA	1	20 A	SPARE	12			
13	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	14			
15	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	16			
17	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	18			
19	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	20			
21	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	22			
23	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	24			
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26			
27	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	28			
29	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	30			
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	32			
33	SPACE	--	--		0 VA	0 VA		--	--	SPACE	34			
35	SPACE	--	--			0 VA	0 VA	--	--	SPACE	36			
37	SPACE	--	--	0 VA	0 VA			--	--	SPACE	38			
39	SPACE	--	--		0 VA	0 VA		--	--	SPACE	40			
41	SPACE	--	--			0 VA	0 VA	--	--	SPACE	42			
<b>Total Load:</b>				3.70 KVA	4.50 KVA	3.34 KVA								
<b>Total Amps:</b>				31 A	38 A	28 A								



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CONTRACT DOCUMENTS - PERMIT SET  
SOUTHTON SERVICE CENTER  
9874 SOUTHTON RD., SAN ANTONIO, TEXAS 78223

Project NO.: 21014  
Date: 09/30/2021  
Revisions:

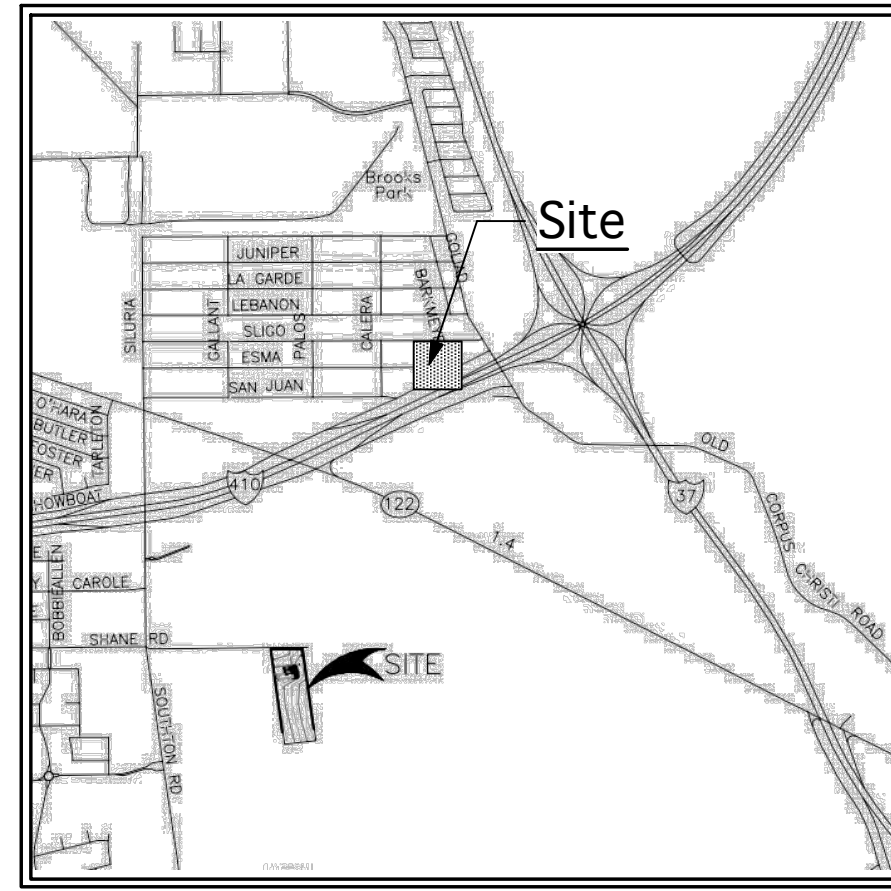
**H2MG** Consulting Mechanical • Electrical • Plumbing Engineers  
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Texas Firm Registration #F-12003  
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E5.1  
ELECTRICAL PANEL SCHEDULES



# Landscape Requirements & Tabulations

## Vicinity Map



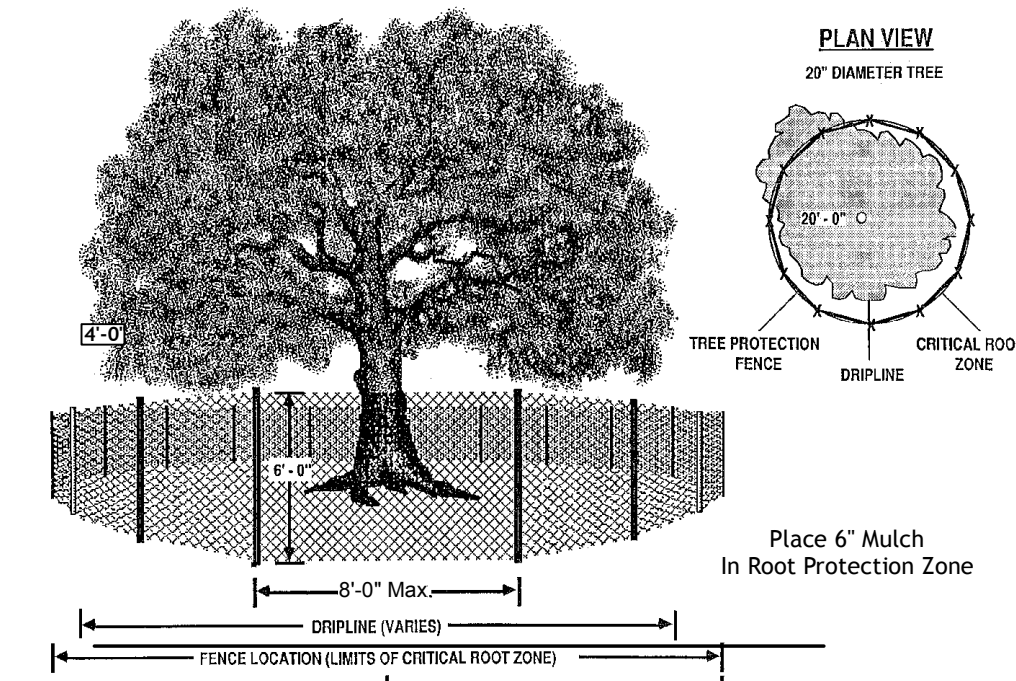
## Property Description

NCB 10915, Block 1, Lot NW IRR Pt of 6 & CB  
5161A Block 1 Lot NE IRR Pt of 6  
Parcel Key #

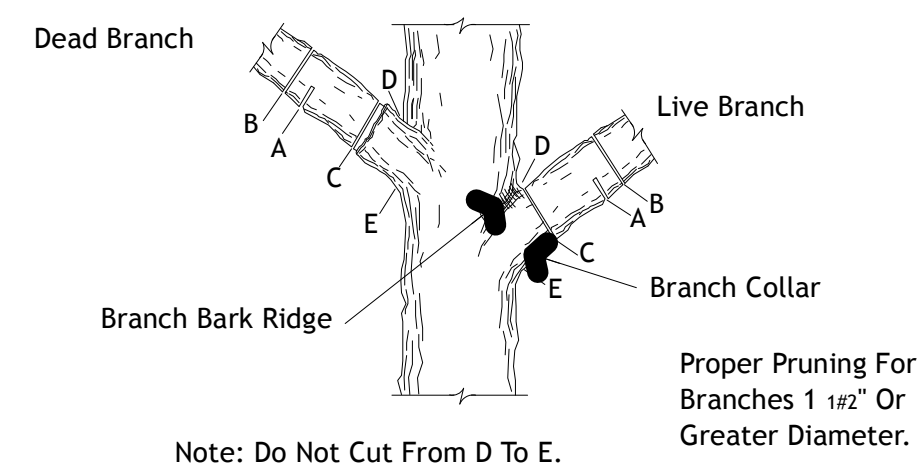
Prior to commencement of any construction activities, Contractor shall notify local utility location service to identify any underground utilities. Contractor shall immediately notify the Landscape Architect of any potential discrepancies, or obstacles. CALL 1-800-DIG-TESS for underground utility location at least two (2) days prior to excavation.

The Site Information shown on this plan has been provided by the Owner, Architect, or Civil Engineer. C2 Landgroup, Inc. is not responsible for the accuracy of that information and is using the information provided to prepare this Landscape Plan.

The Landscape Contractor shall verify all scales of the plans and quantities shown on the plan and is responsible for including in the bid the planting, or installation of all items shown. Any errors on the plan, or quantities should be brought to the attention of the Landscape Architect by the Contractor prior to submittal of any bid.

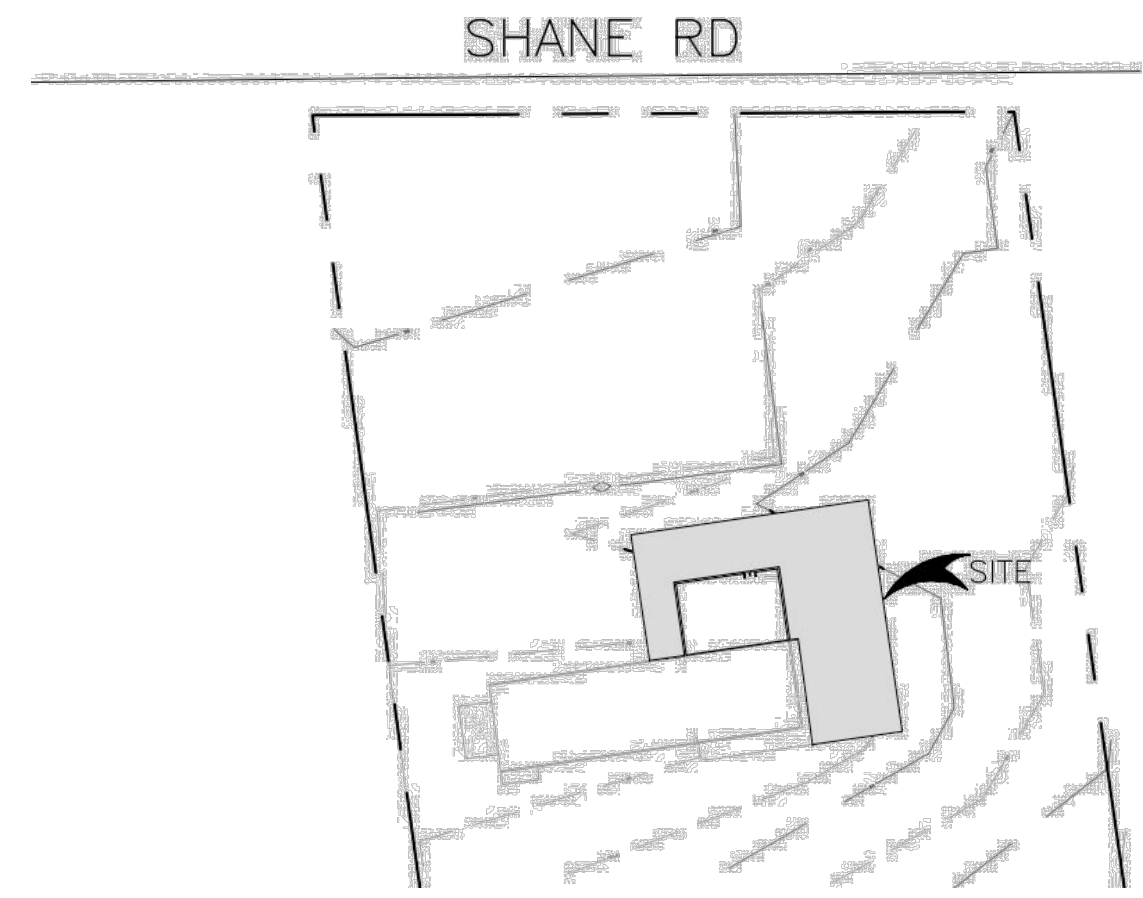


## Tree Protection Fence Detail (No Scale)



- A. First Cut - To Prevent The Bark From Being Peeled When The Branch Falls.
- B. Second Cut - To Reduce The Weight Of Branch.
- C. Final Cut - Allow For Healing Collar But No Stubs.
- D. Branch Ridges - Indent Properly Branch Ridges Which Are Site For Decay.

For Oaks Only: Paint All Wounds Or Cuts With Pruning Paint Within 20 Min To Prevent The Spread Of Oak Wilt.



## 1 Site Plan

NO SCALE

## Site Tree Canopy Shading Calculations

(Mandatory Requirement)

Site Area	3,522 sf
25% Shading Minimum	881 sf
Number of Existing Trees @ 1200sf - 0	0 sf
Number of Trees @ 1200sf @ 90% - 1	1,080 sf
Number of Trees @ 1200sf @ 90% (x1.5) - 0	0 sf
Number of Existing Trees @ 875sf - 0	0 sf
Number of Trees @ 875sf @ 90% - 0	0 sf
Number of Trees @ 875sf @ 90% (x1.5) - 0	0 sf
Number of Existing Trees @ 550sf - 0	0 sf
Number of Trees @ 550sf @ 90% - 0	0 sf
Number of Trees @ 550sf @ 90% (x1.5) - 0	0 sf
Number of Existing Trees @ 275sf - 0	0 sf
Number of Trees @ 275sf @ 90% - 0	0 sf
Number of Trees @ 275sf @ 90% (x1.5) - 0	0 sf
Square Footage of Trees Provided	1,080 sf

( 1 ) 1.5" Large Tree Required To Adhere To Site Canopy Shading Requirement

( 1 ) x 1.5" = 1.5" x \$200 = \$300.00 To Be Paid To Tree Mitigation Fund For Site Shading

Total To Pay Tree Mitigation Fund \$300

## Tree Preservation Notes

- All existing trees denoted on plan to be preserved as shown. Those trees requested for credit have been delineated to be protected at the root zone. The root zone shall be determined by the crown of the tree. Preservation notes apply only for those trees that are designated to be preserved for credit.
- A protective barrier to protect the root protection zone shall be erected and maintained until construction is completed. The barrier shall be fenced or cabled with a semi-permanent barrier that will visually denote those areas being protected.
- Protected areas shall be sustained in a natural state until landscape installation begins.
- Protected areas shall be free from vehicular or mechanical traffic during construction.
- During construction, no excess soil, additional fill, equipment, liquids, or construction debris shall be placed inside the protective barrier nor shall any soil be removed from within the barrier.
- The proposed finished grade and elevation of land within the root protection zone of any tree to be preserved shall not be raised or lowered more than three inches. Well and retaining methods are allowed outside the root protection zone.
- The root protection zone for each designated protected tree must remain unpaired.
- All designated / protected trees shall have ground cover or turf at the base of the tree. See plan for condition.
- All trenches and digging within the Root Protection Zone shall be hand digging only. No automatic trenchers allowed.

## Tree Inventory

No Existing Significant Trees In Limits Of Construction

## Tree Inventory Summary

<b>Understory Trees</b>	
Total Diameter Inches	0"
Total Diameter Inches Removed	0"
Total Diameter Inches Preserved	0"

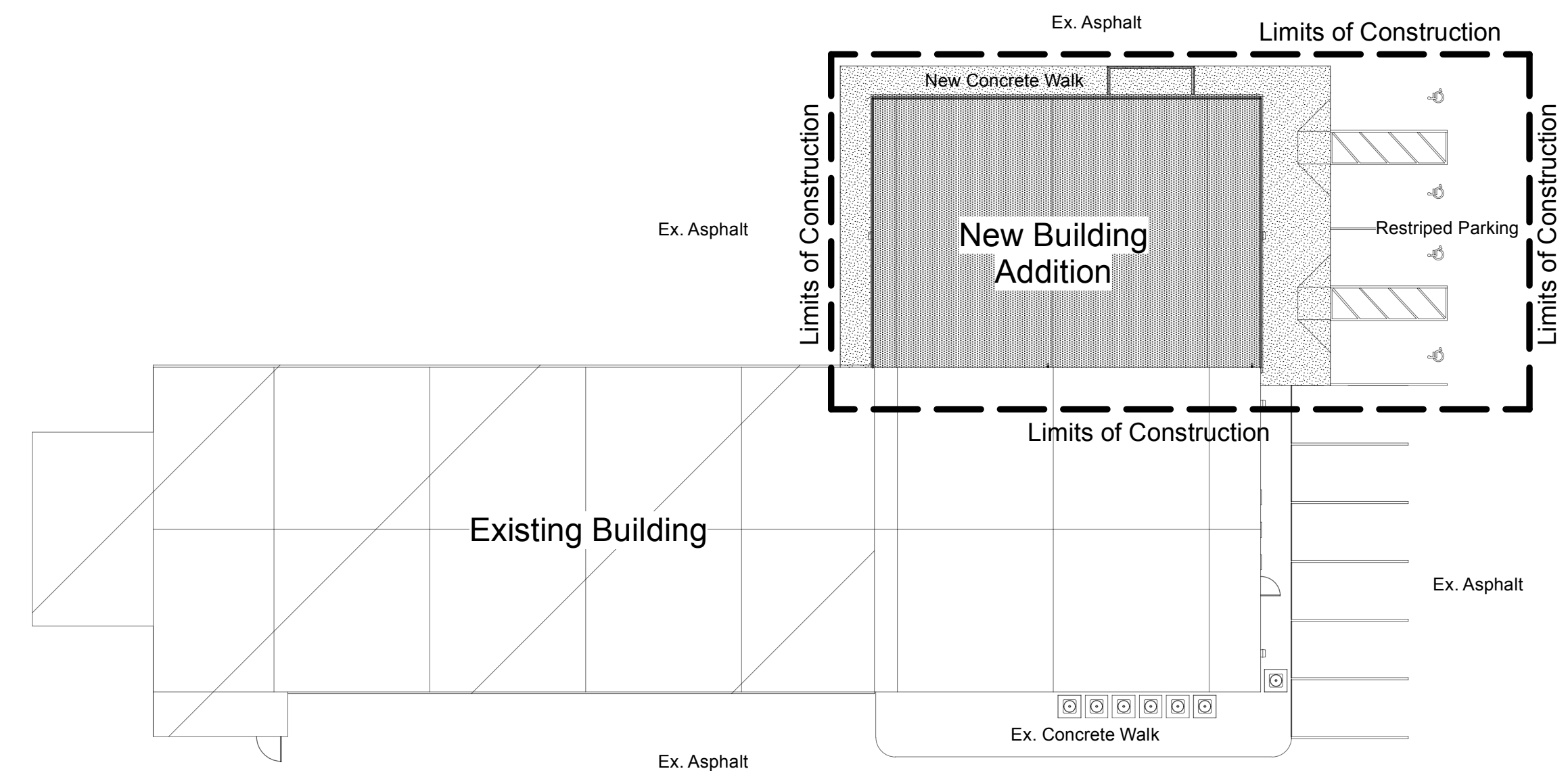
% Diameter Inches Preserved 100.00 %

<b>Significant Trees</b>	
Total Diameter Inches	0"
Total Diameter Inches Removed	0"
Total Diameter Inches Preserved	0"

% Diameter Inches Preserved 100.00 %

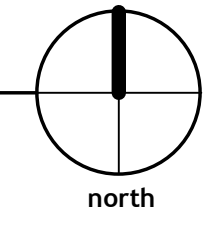
<b>Heritage Trees</b>	
Total Diameter Inches	0"
Total Diameter Inches Removed	0"
Total Diameter Inches Preserved	0"

% Diameter Inches Preserved #DIV 0! %  
Total # Trees 24" cal. & above 0



## 2 Tree Preservation Plan

SCALE 1" = 20'-0"  
0 10 20 40 80



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September 30, 2021

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SOUTHTON SERVICE CENTER  
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Project NO. 21014  
Date: 09/30/2021  
Revisions:

TP1.0  
Tree Preservation Plan