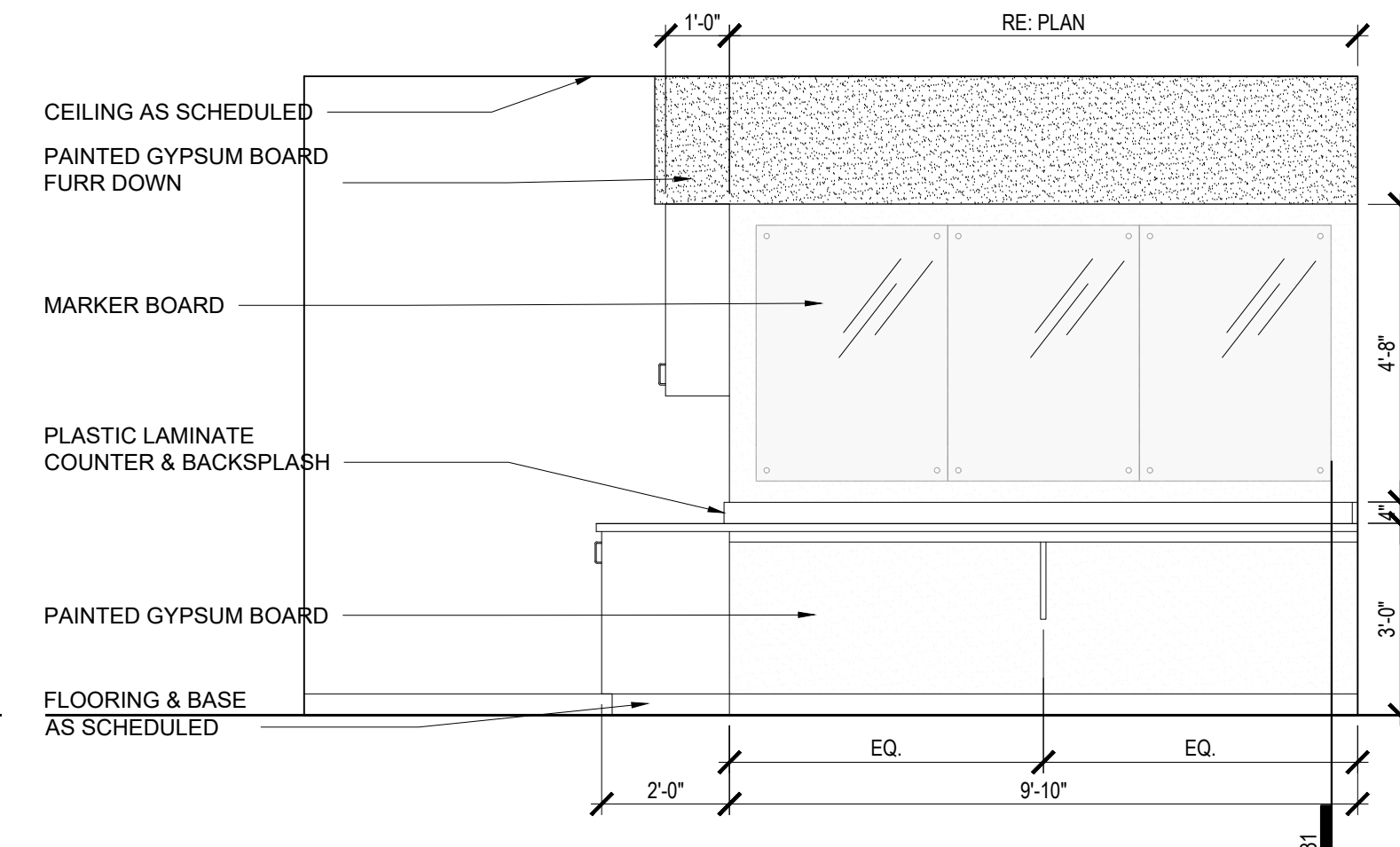
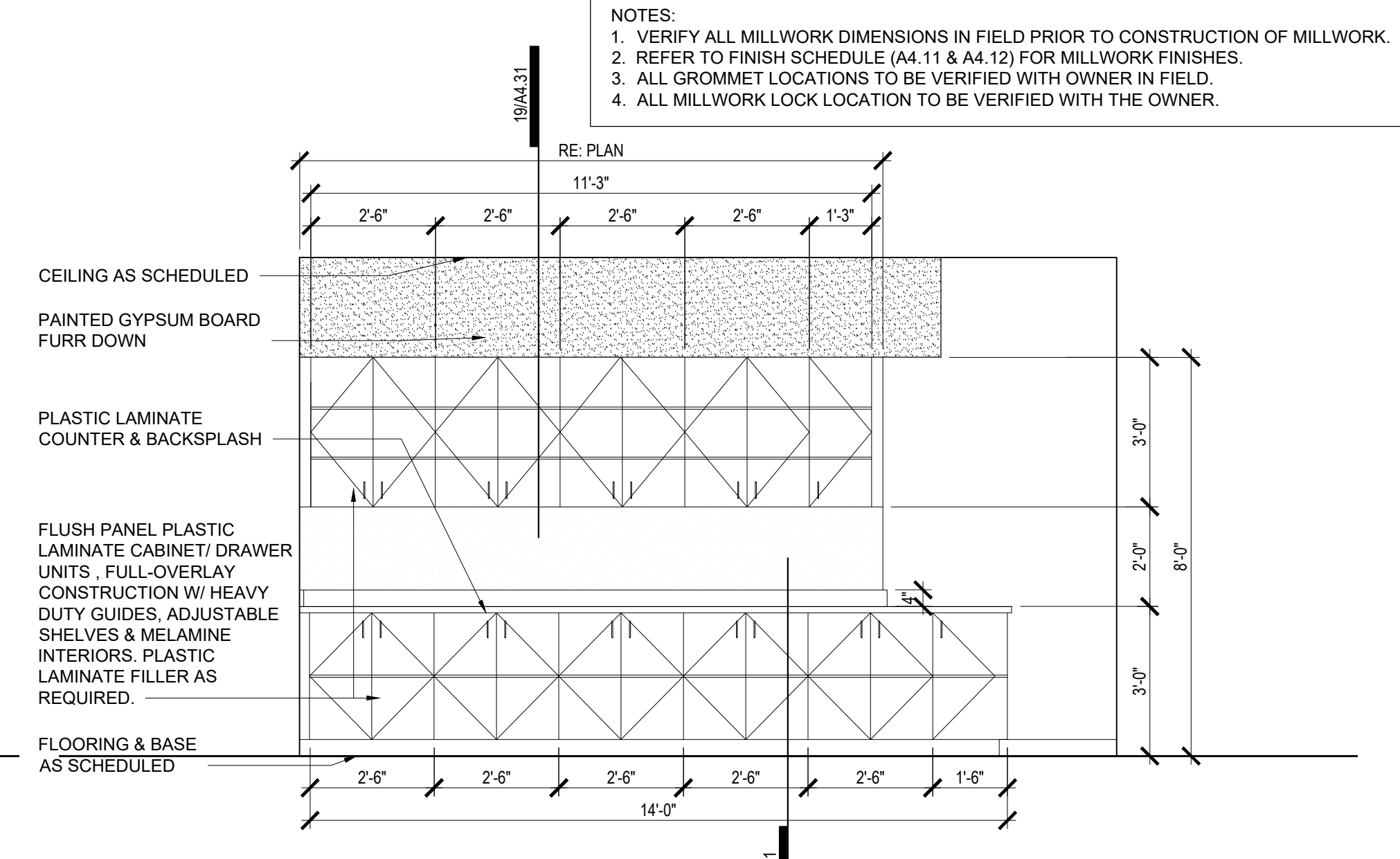


1 1109: BOARD ROOM
Scale: 3/8" = 1'-0"

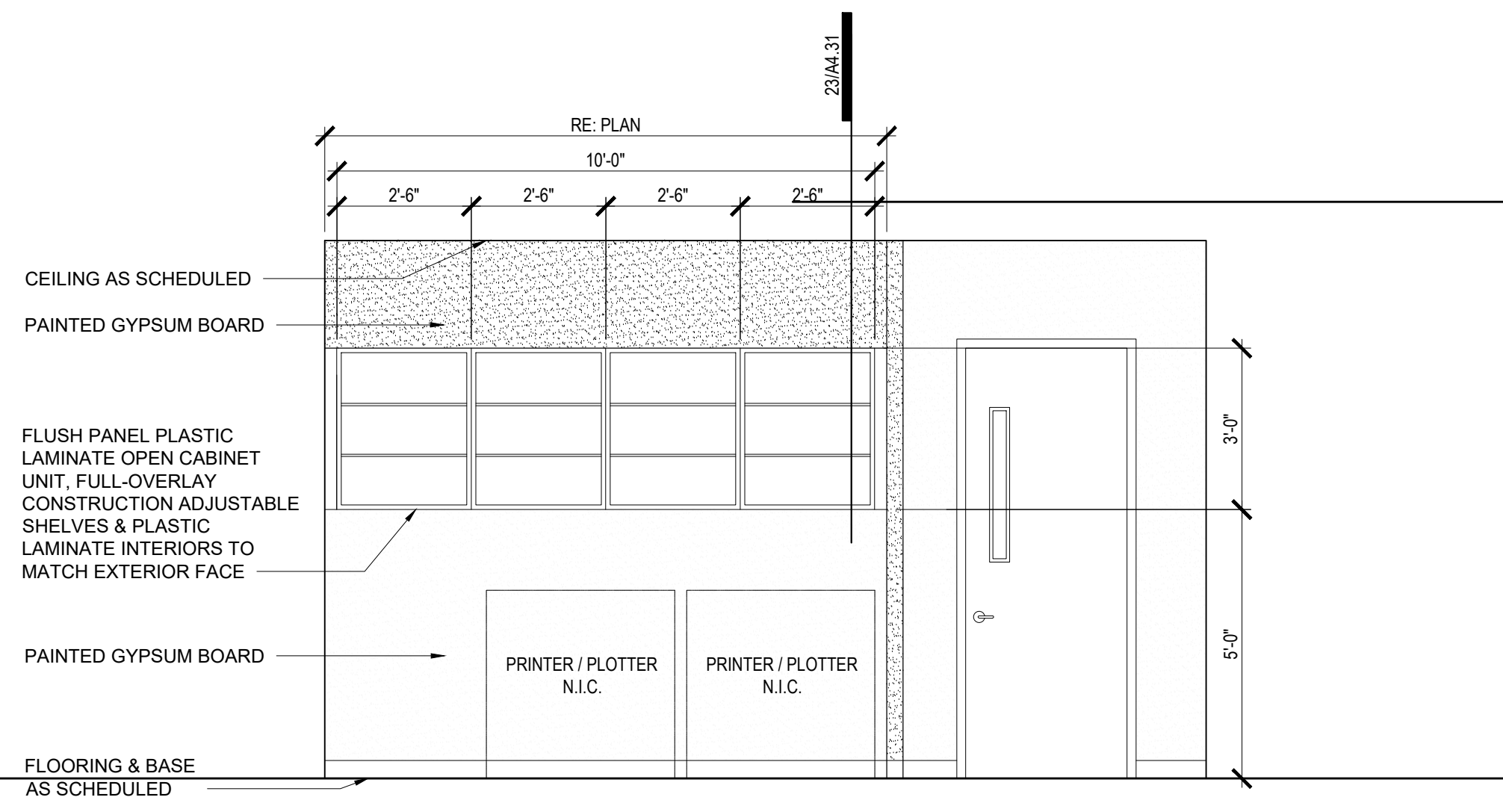


2 1117: COPY/WORKROOM
Scale: 3/8" = 1'-0"

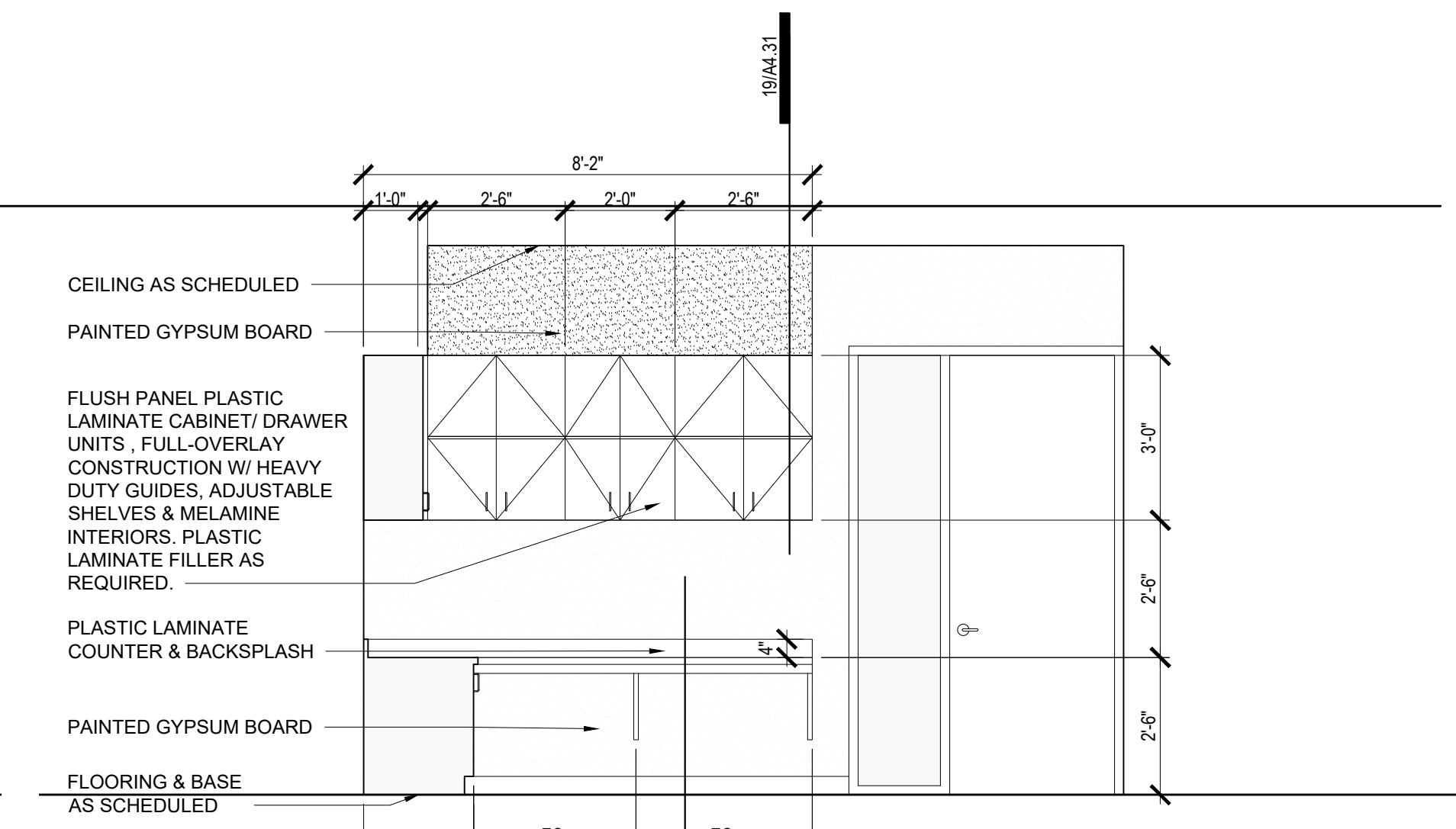


3 1117: COPY/WORKROOM
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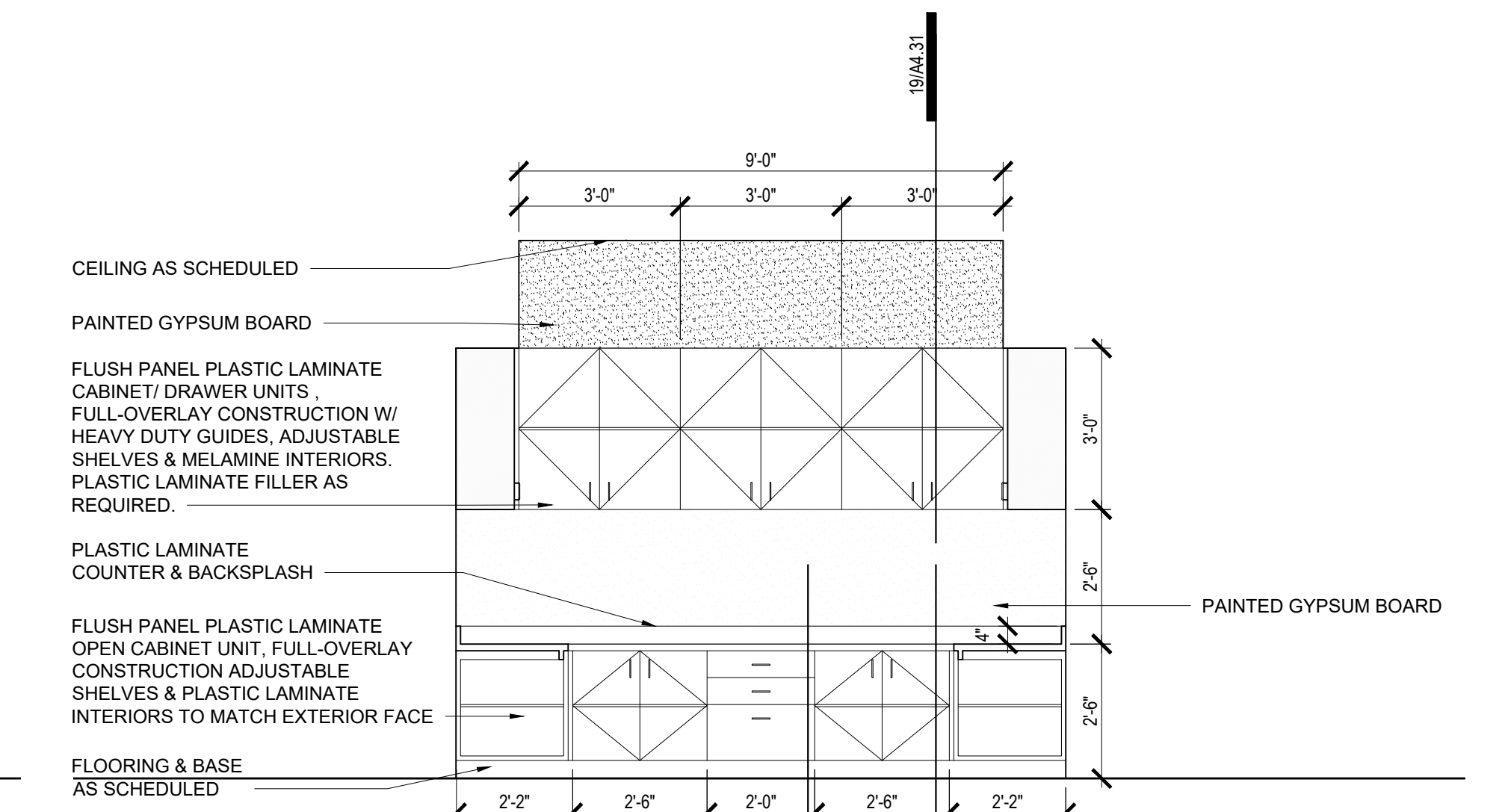
NOTES:
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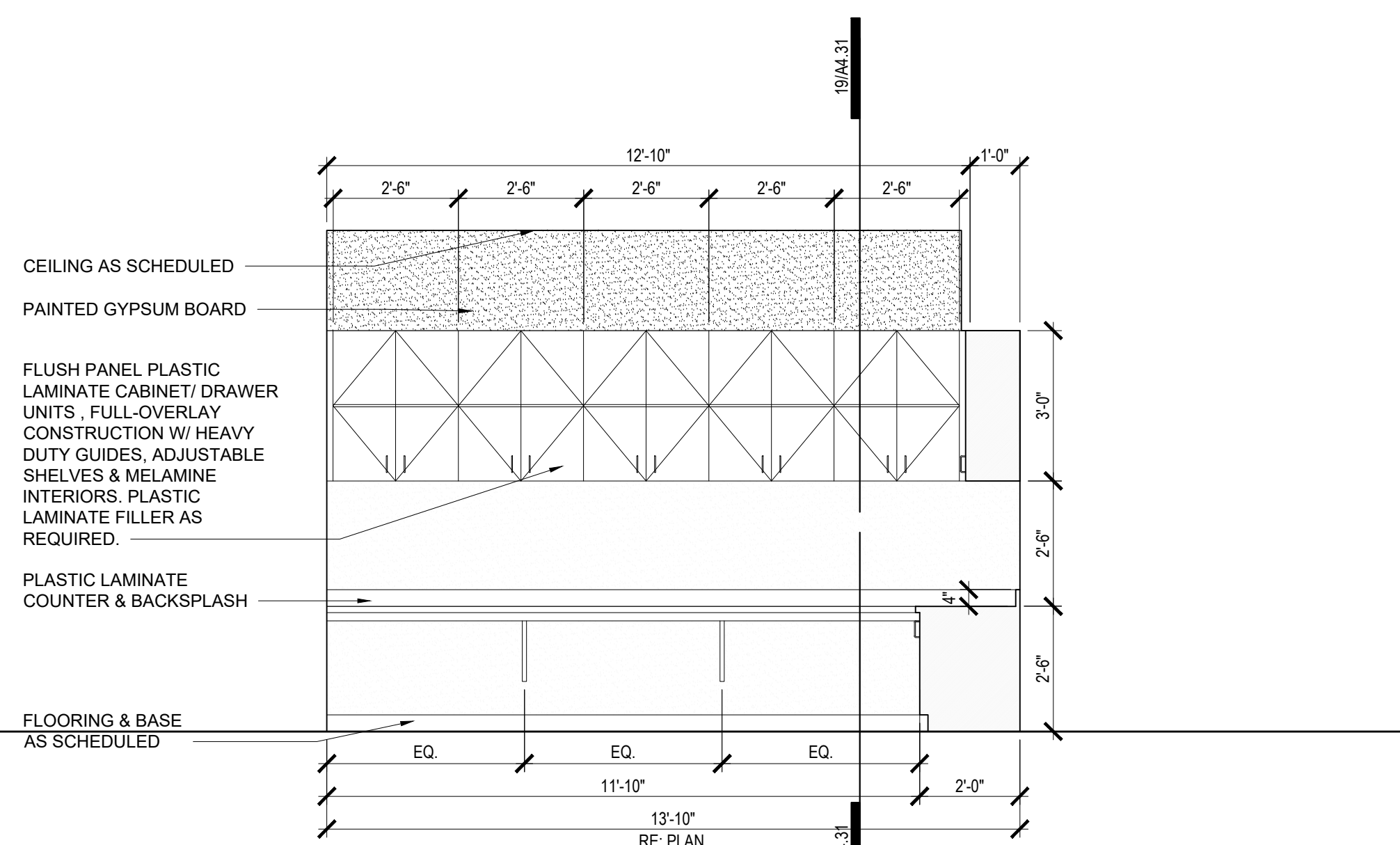
4 1117: COPY/WORKROOM
Scale: 3/8" = 1'-0"



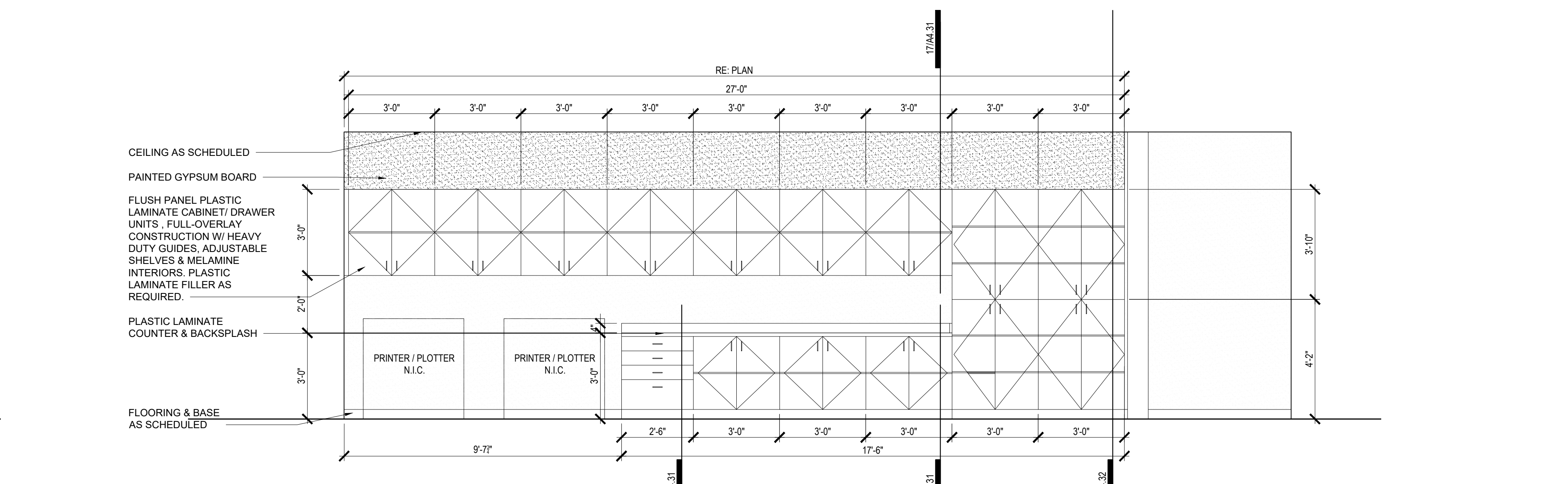
5 1124: LAB
Scale: 3/8" = 1'-0"



6 1124: LAB
Scale: 3/8" = 1'-0"



7 1124: LAB
Scale: 3/8" = 1'-0"



8 1005: MAIL ROOM COPY/SUPPLY
Scale: 3/8" = 1'-0"

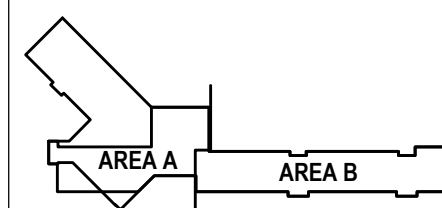


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Key Plan:



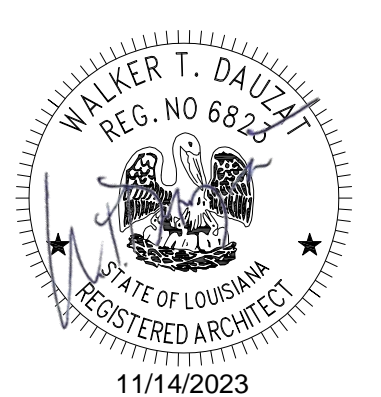
Consultants:

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Baton Rouge, LA 70817

Phase: Bid Documents

Date: 10-26-23

Revisions:



Professional Seal

Scale: 1/4" = 1'-0"

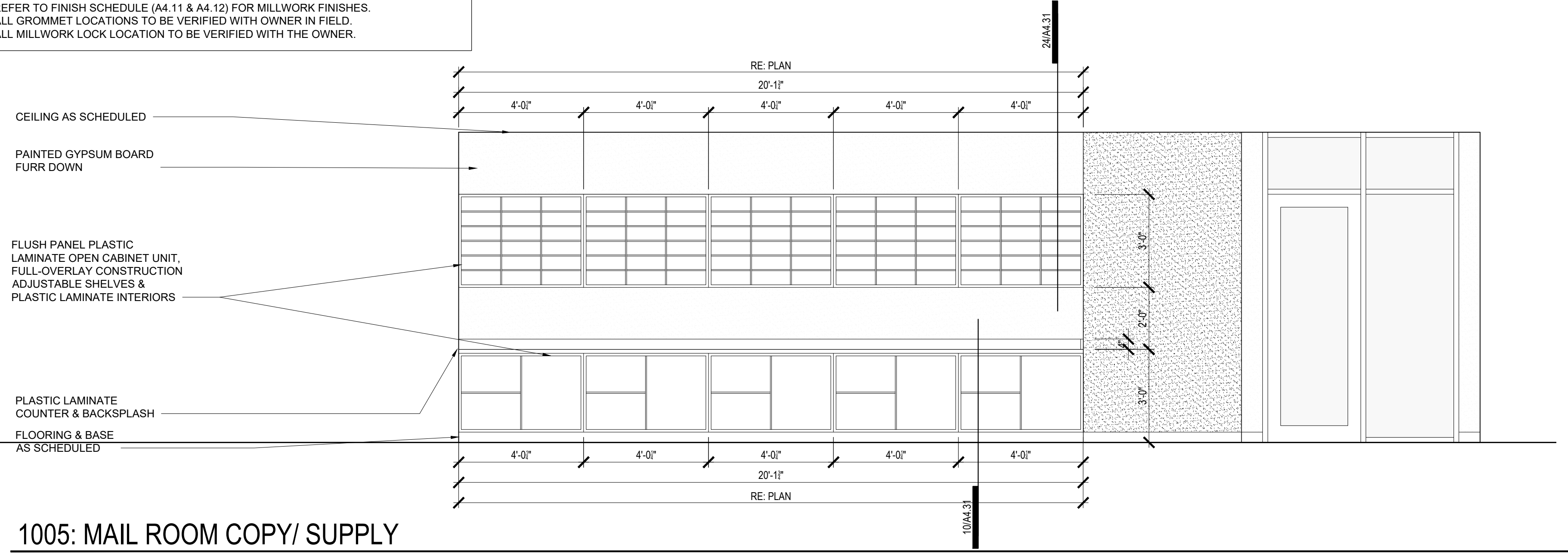
Sheet Description:

INTERIOR ELEVATIONS

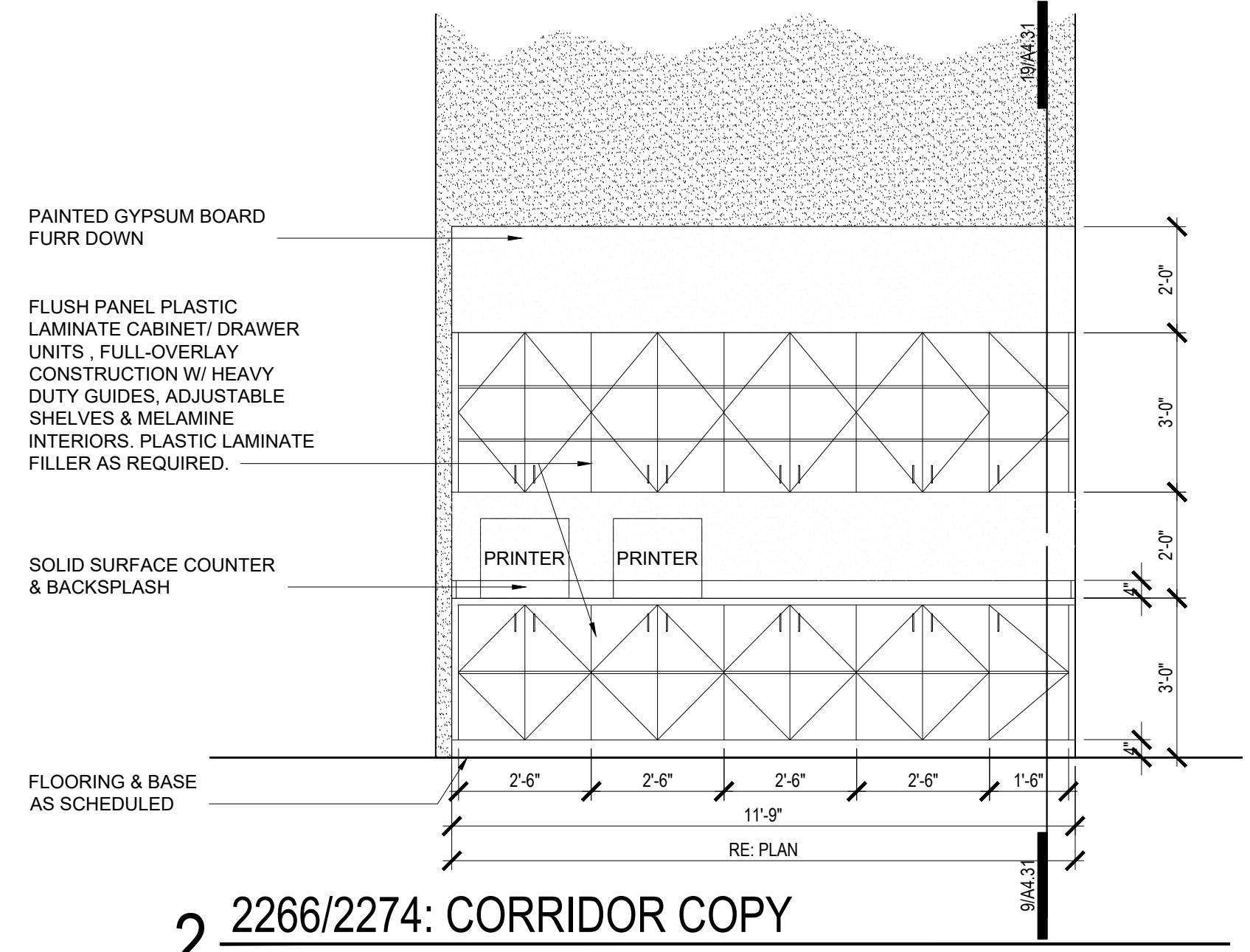
A4.21

North

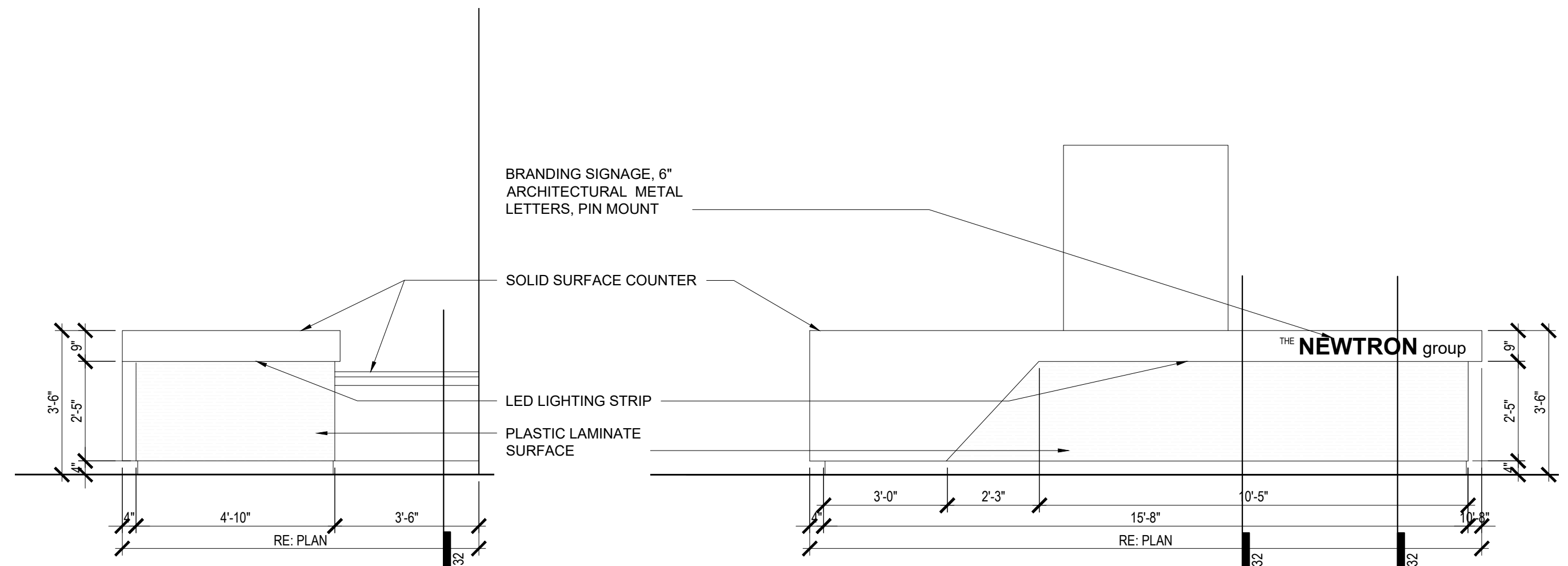
- NOTES:
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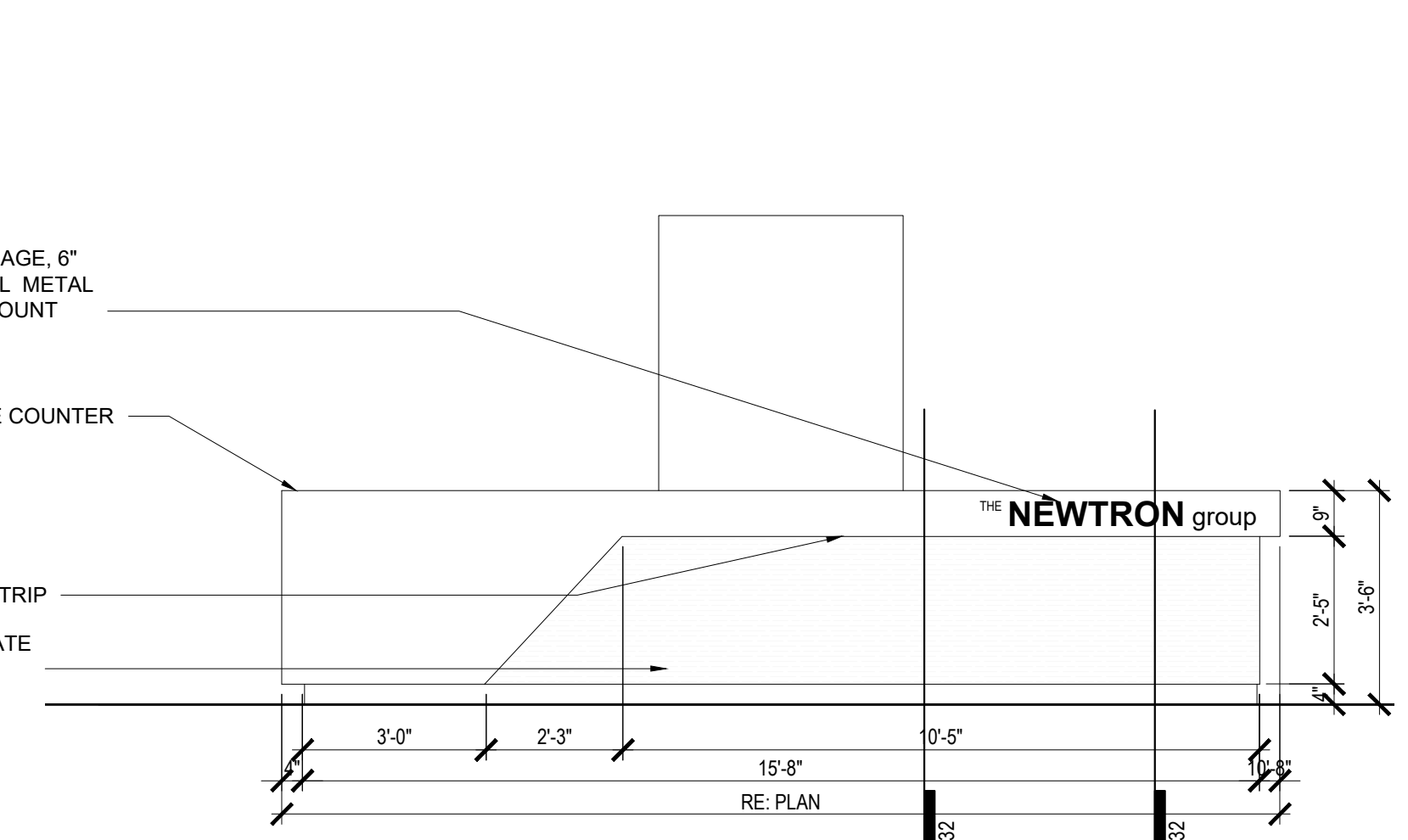
1 1005: MAIL ROOM COPY/ SUPPLY
 Scale: 3/8" = 1'-0"



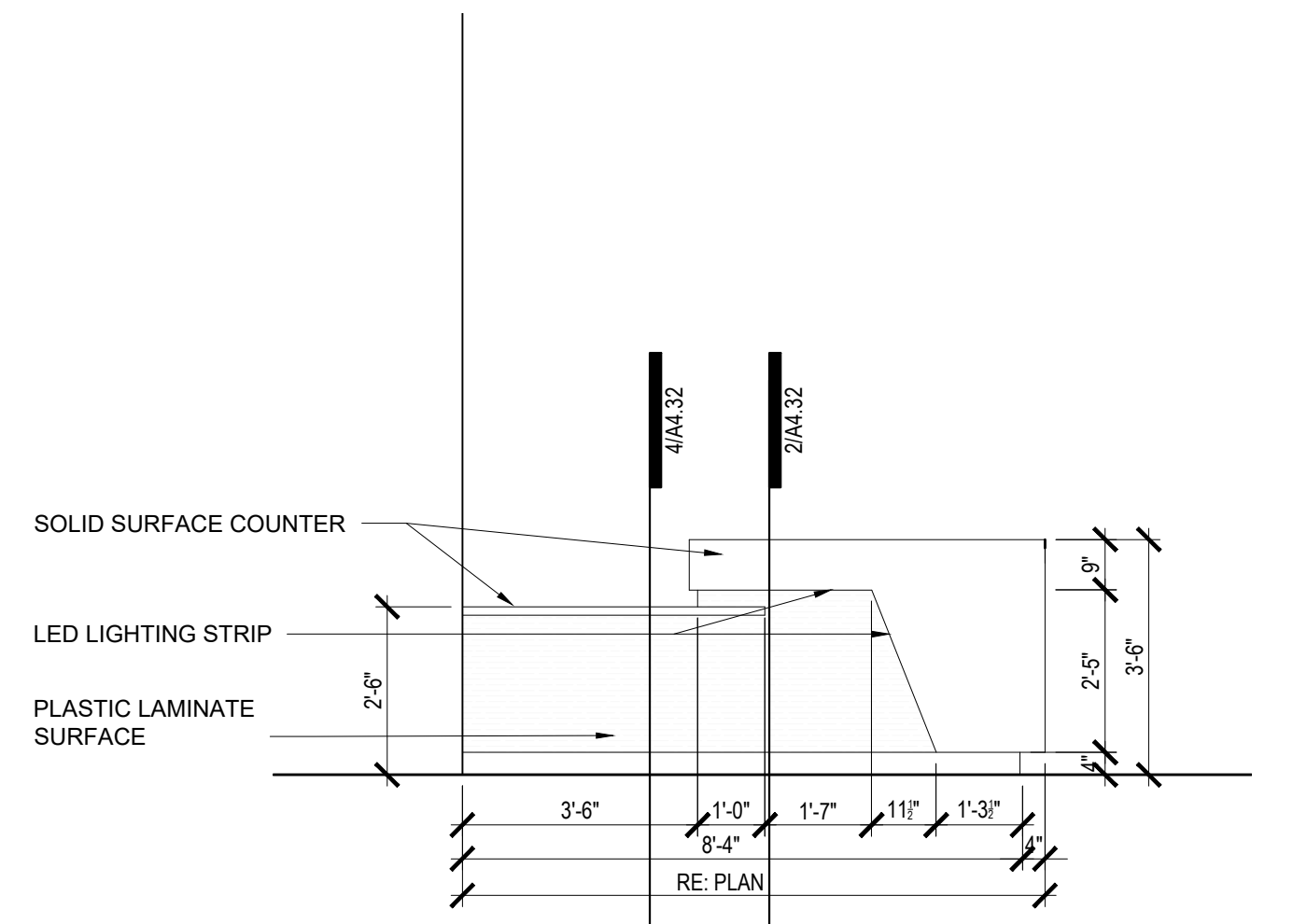
2 2266/2274: CORRIDOR COPY
 Scale: 3/8" = 1'-0"



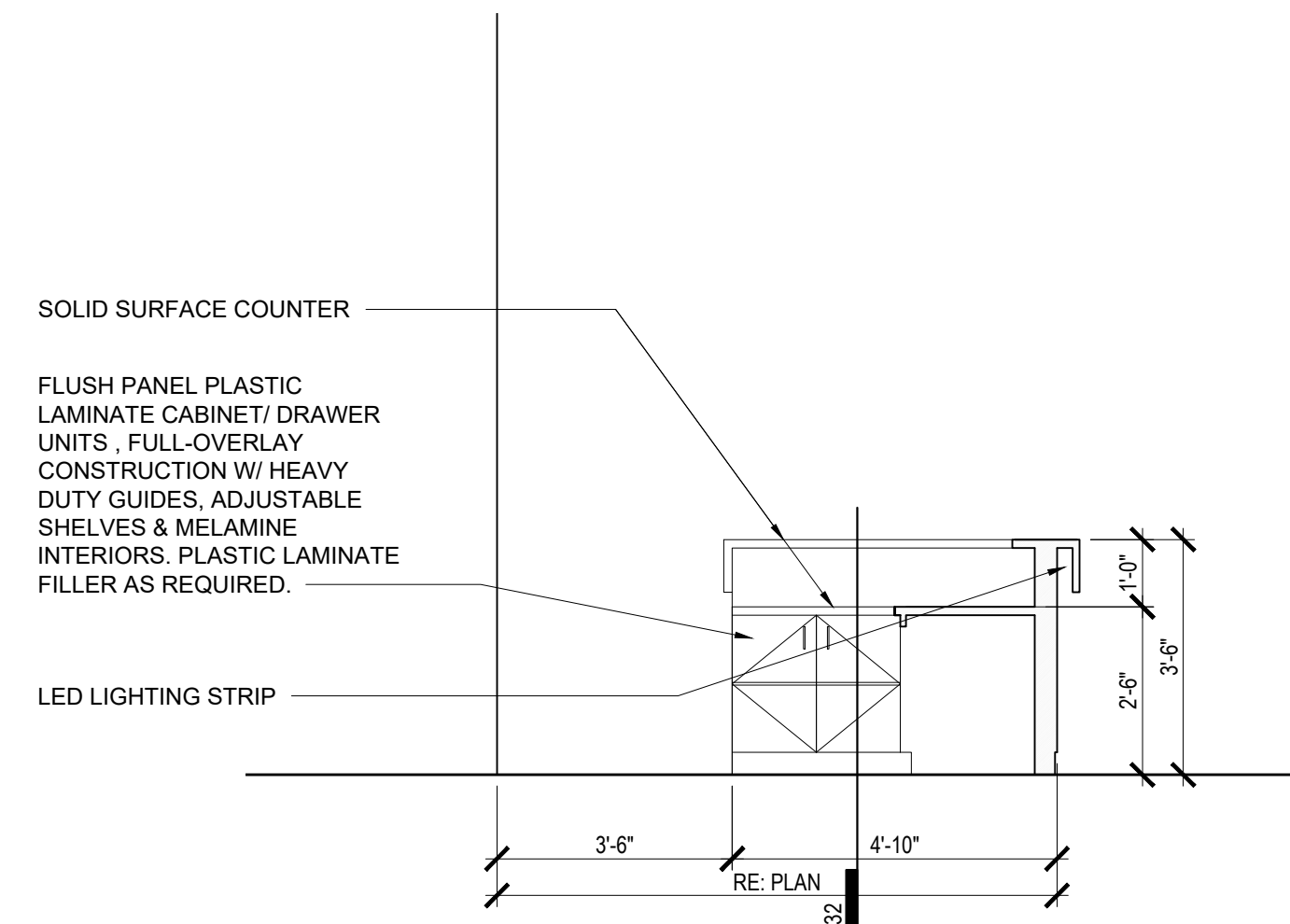
3 1004: RECEPTION
 Scale: 3/8" = 1'-0"



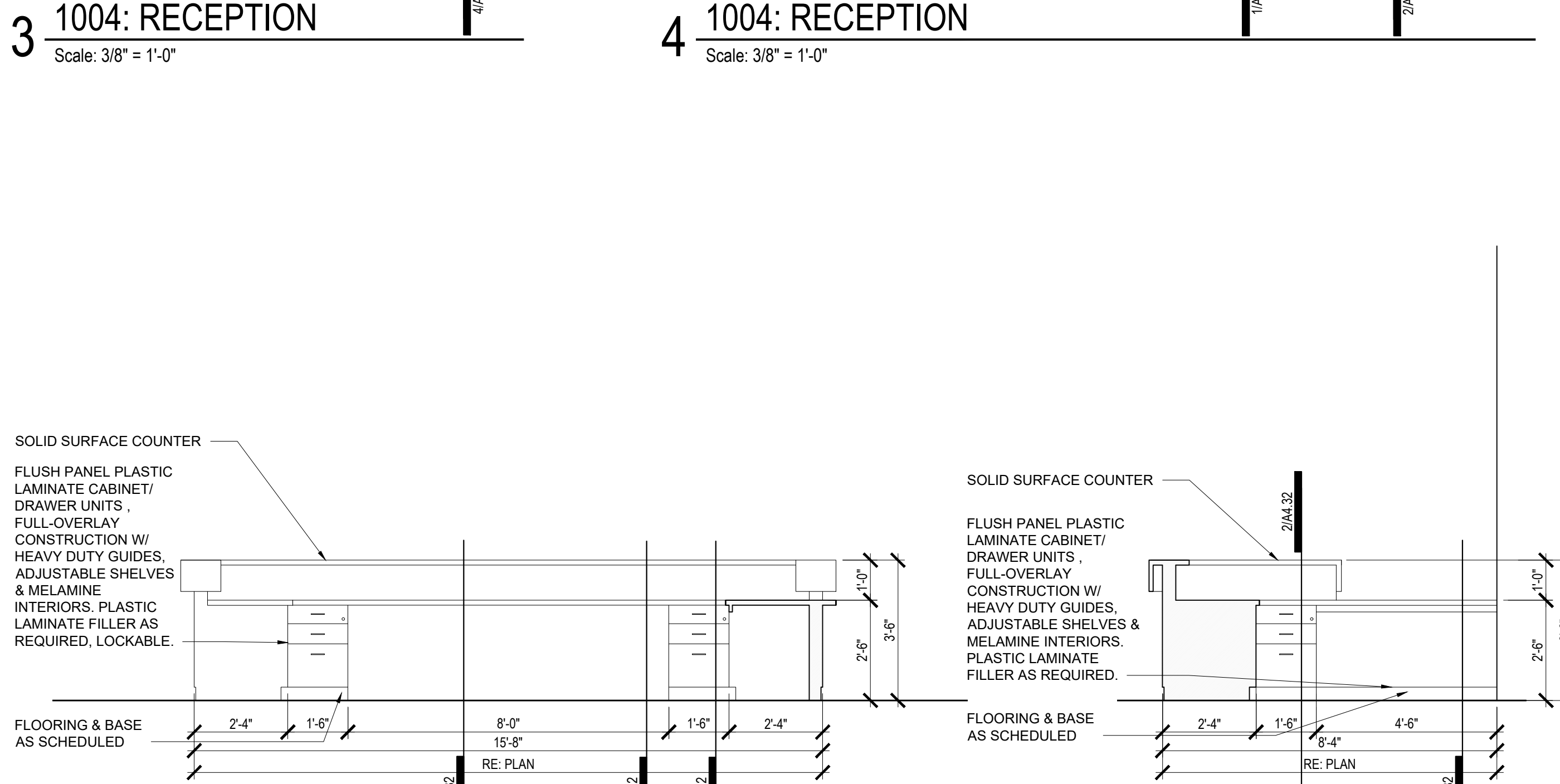
4 1004: RECEPTION
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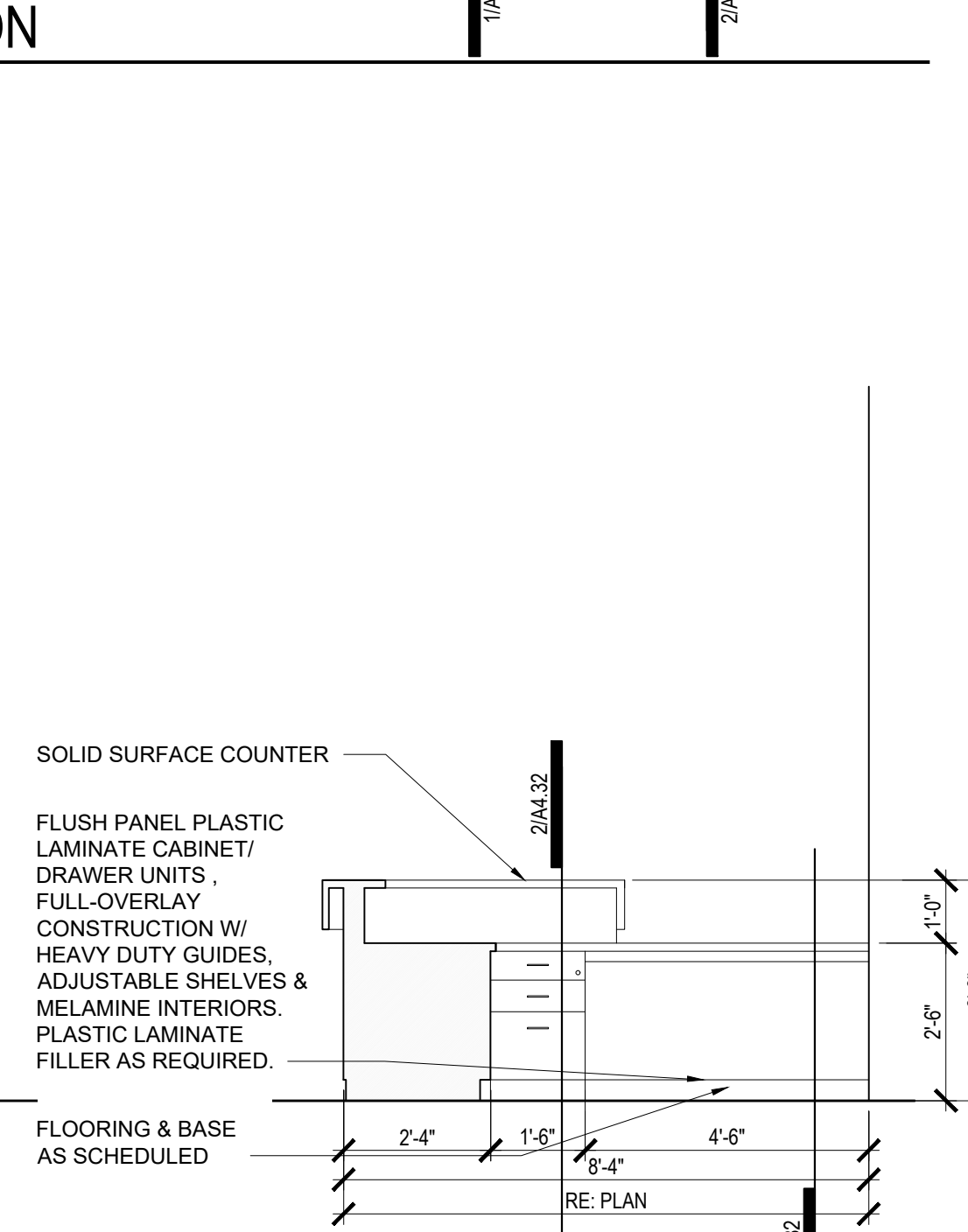
5 1004: RECEPTION
 Scale: 3/8" = 1'-0"



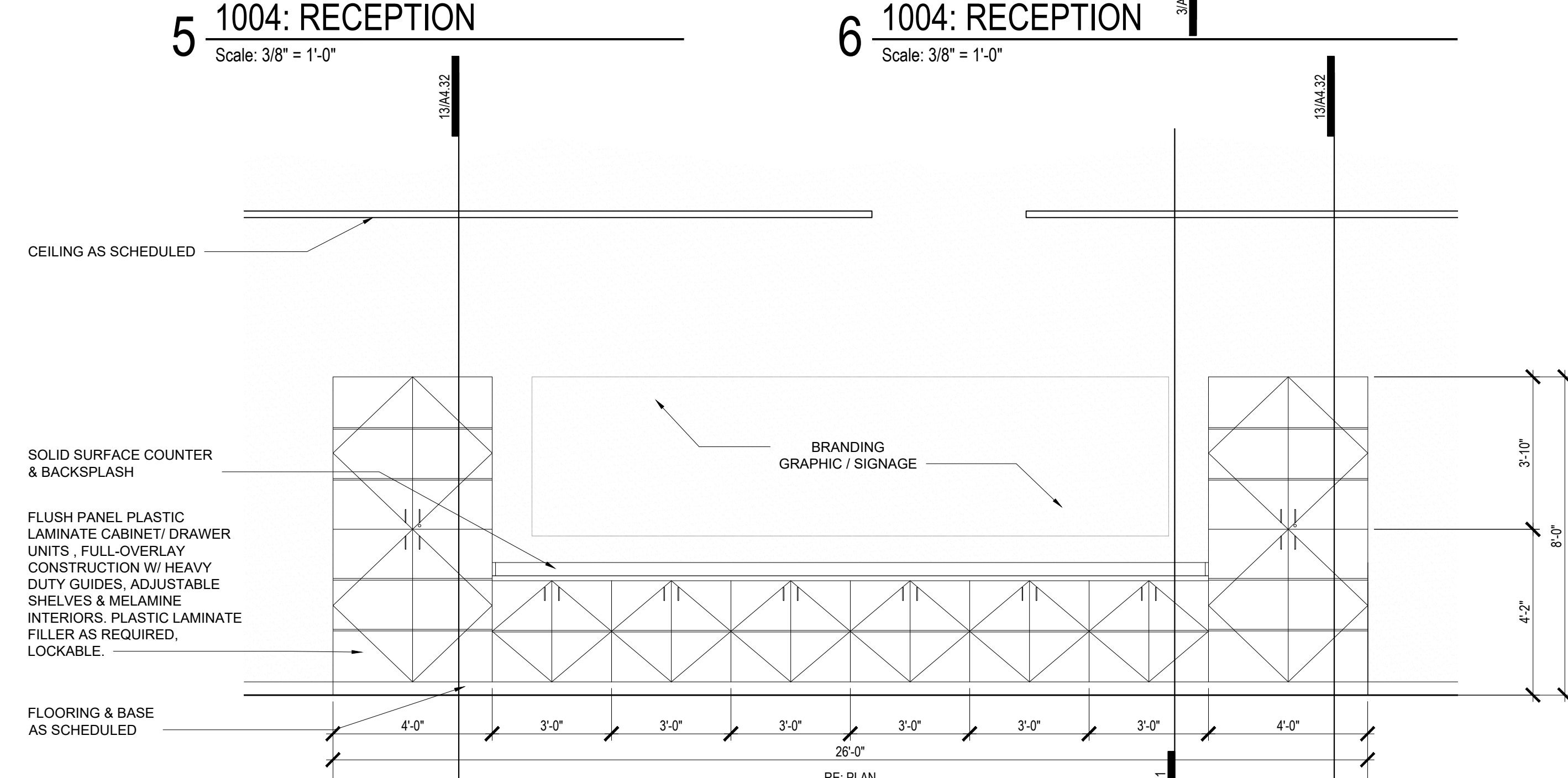
6 1004: RECEPTION
 Scale: 3/8" = 1'-0"



7 1004: RECEPTION
 Scale: 3/8" = 1'-0"



8 1004: RECEPTION
 Scale: 3/8" = 1'-0"



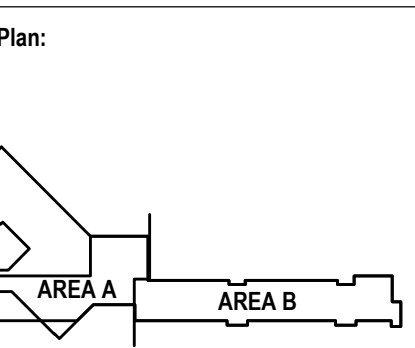
9 1015: TRAINING ROOM
 Scale: 3/8" = 1'-0"



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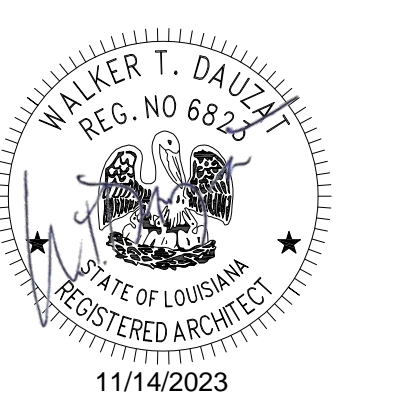
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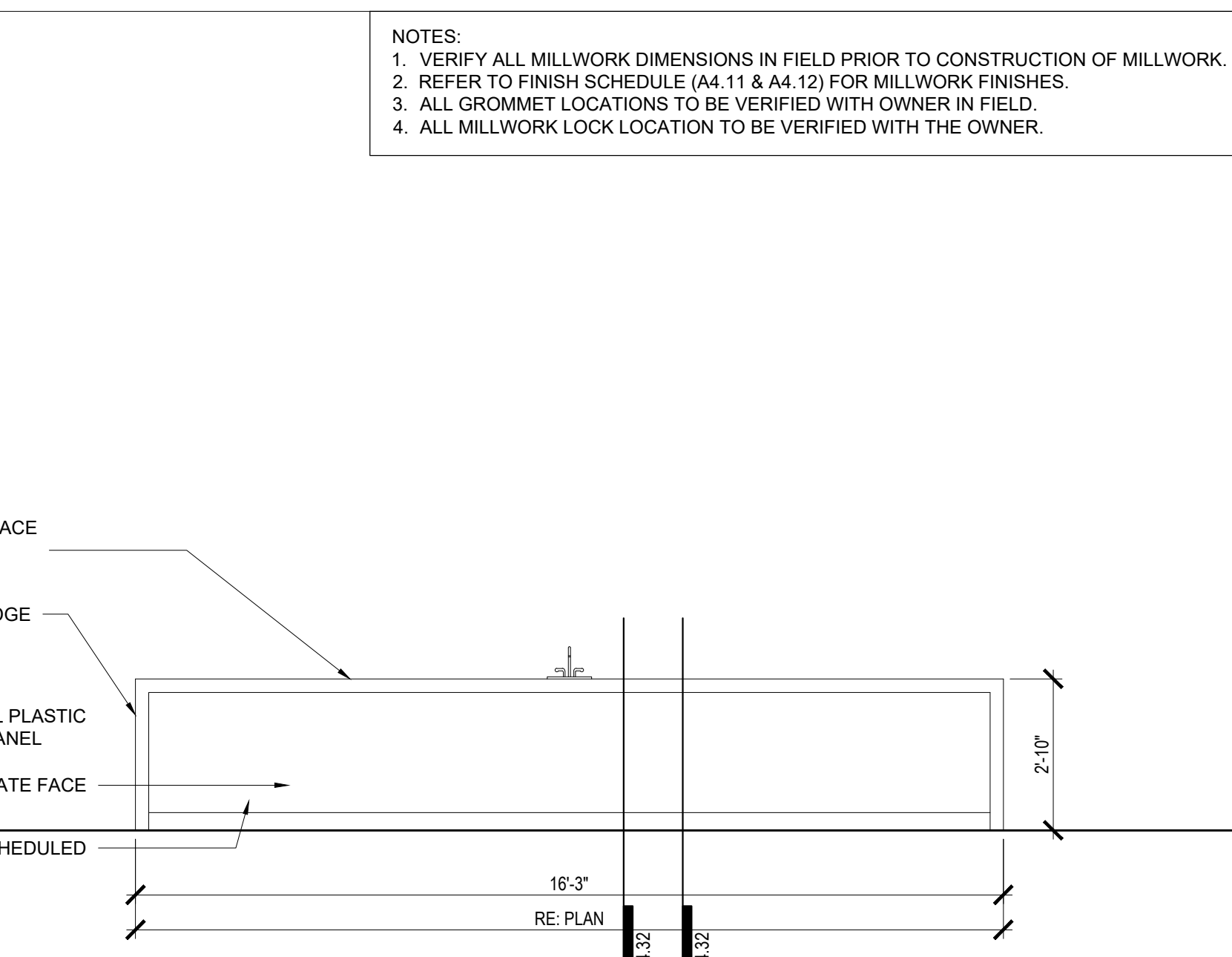
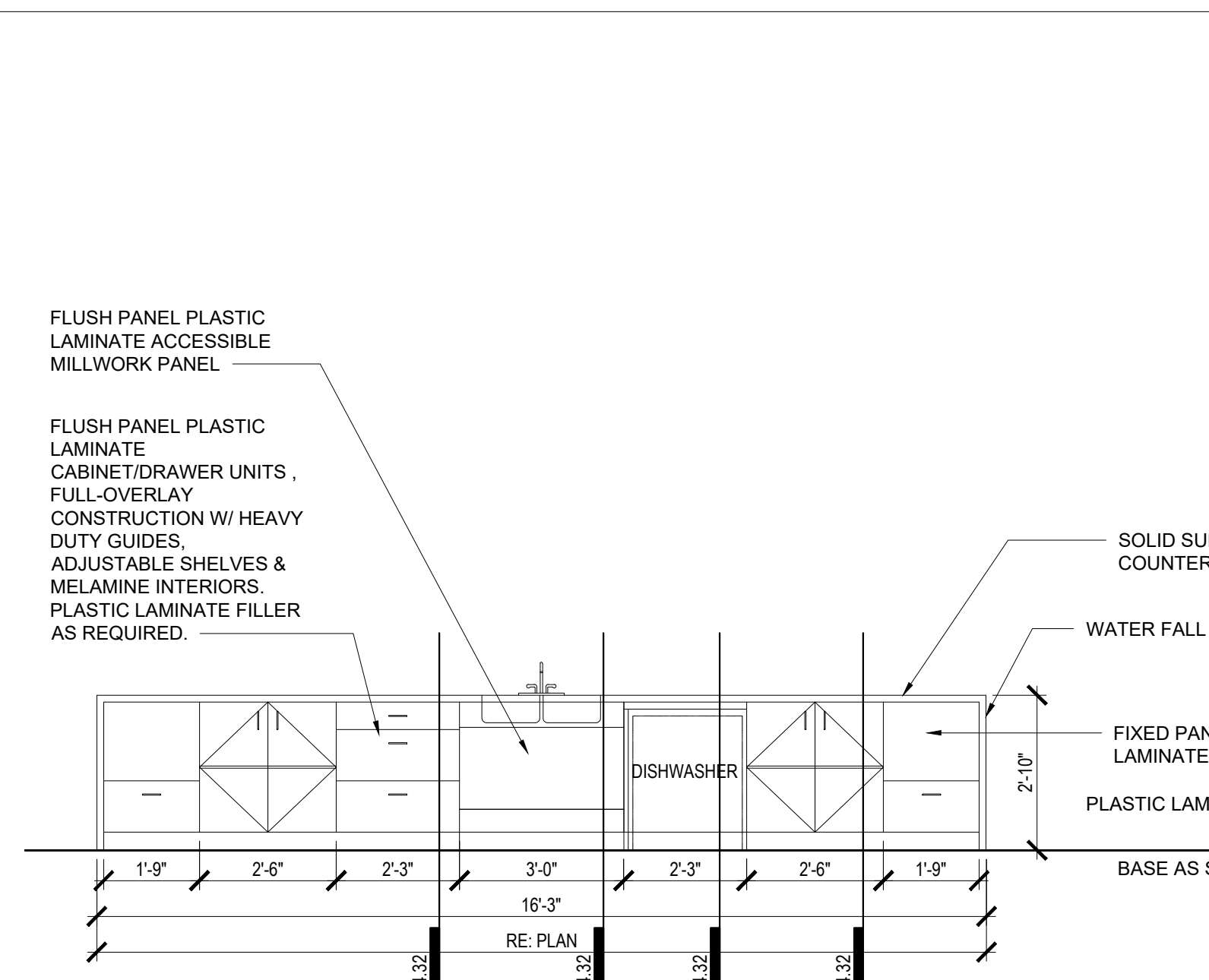
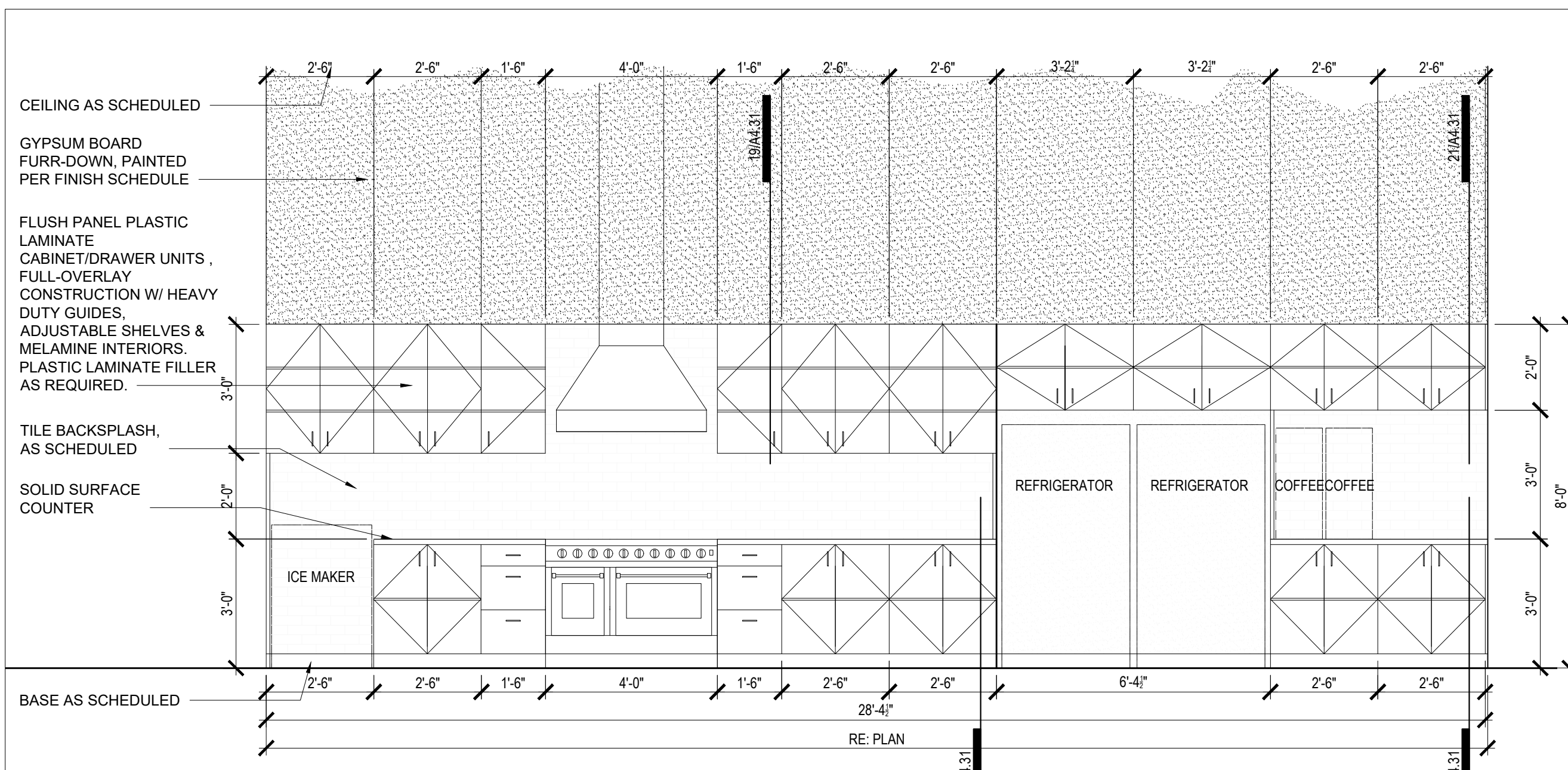
Consultants:

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 New Campus Corporate Headquarters
 13820 Airline Highway
 Baton Rouge, LA 70817

Phase: Bid Documents
 Date: 10-26-23
 Revisions:



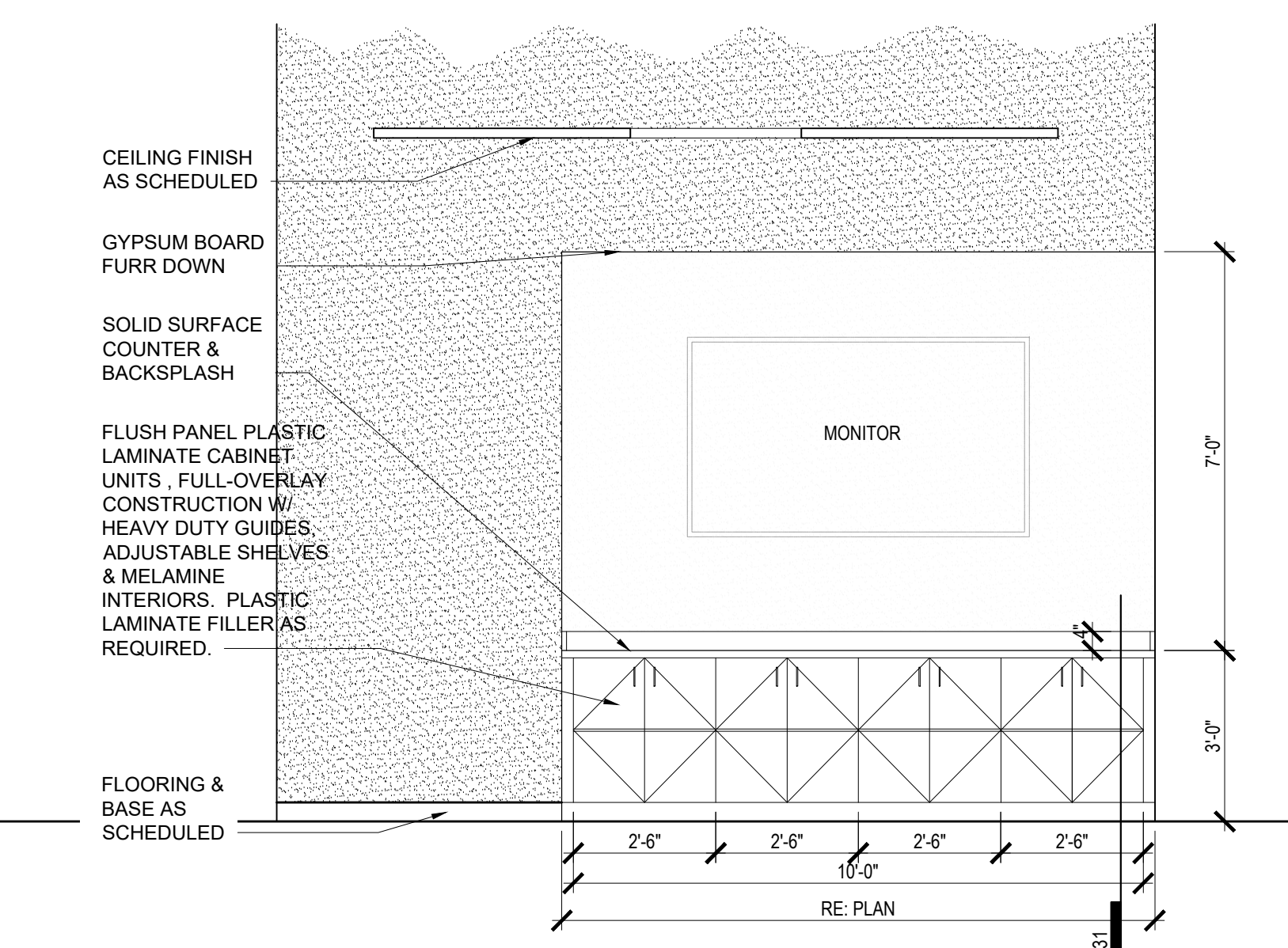
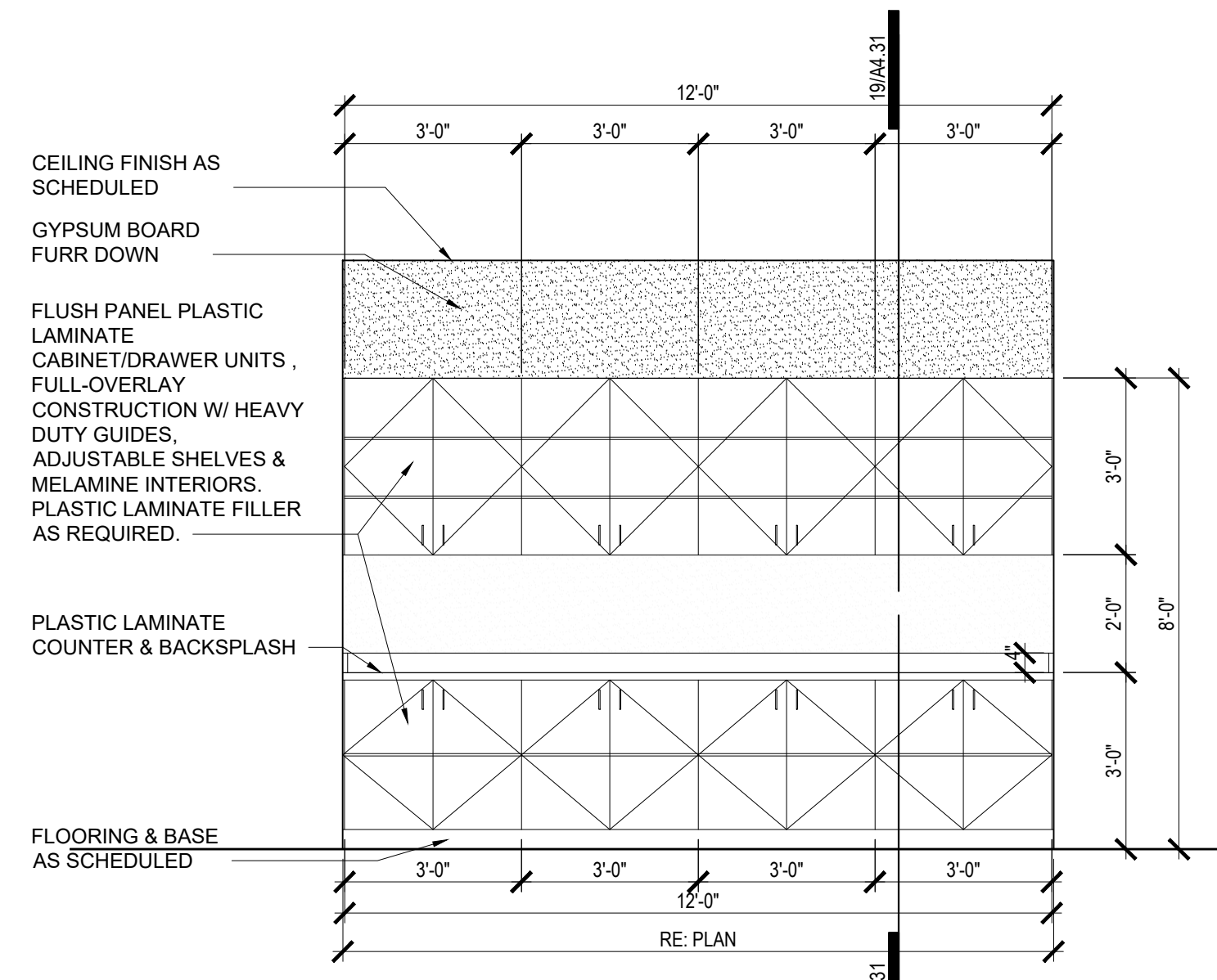
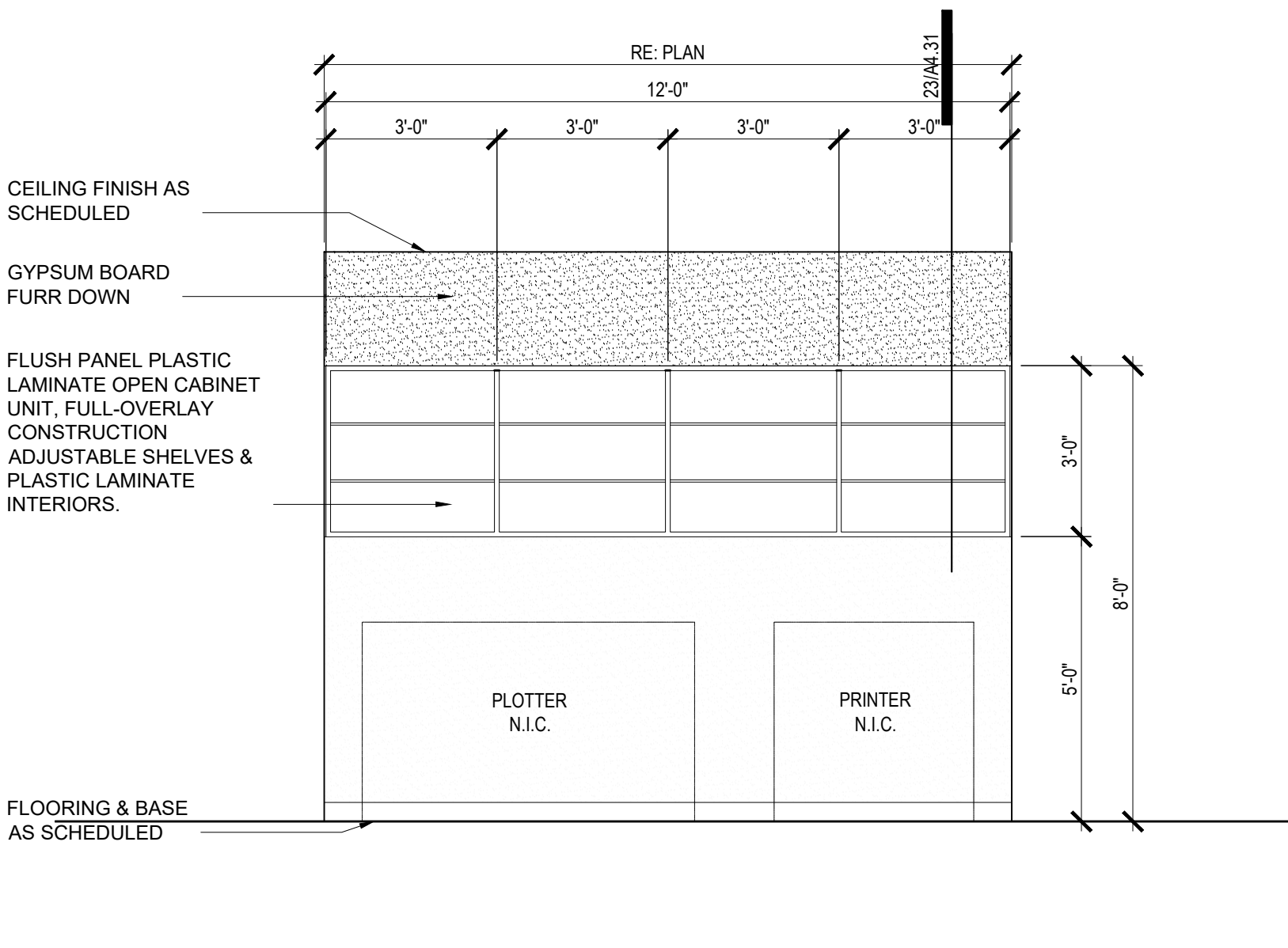
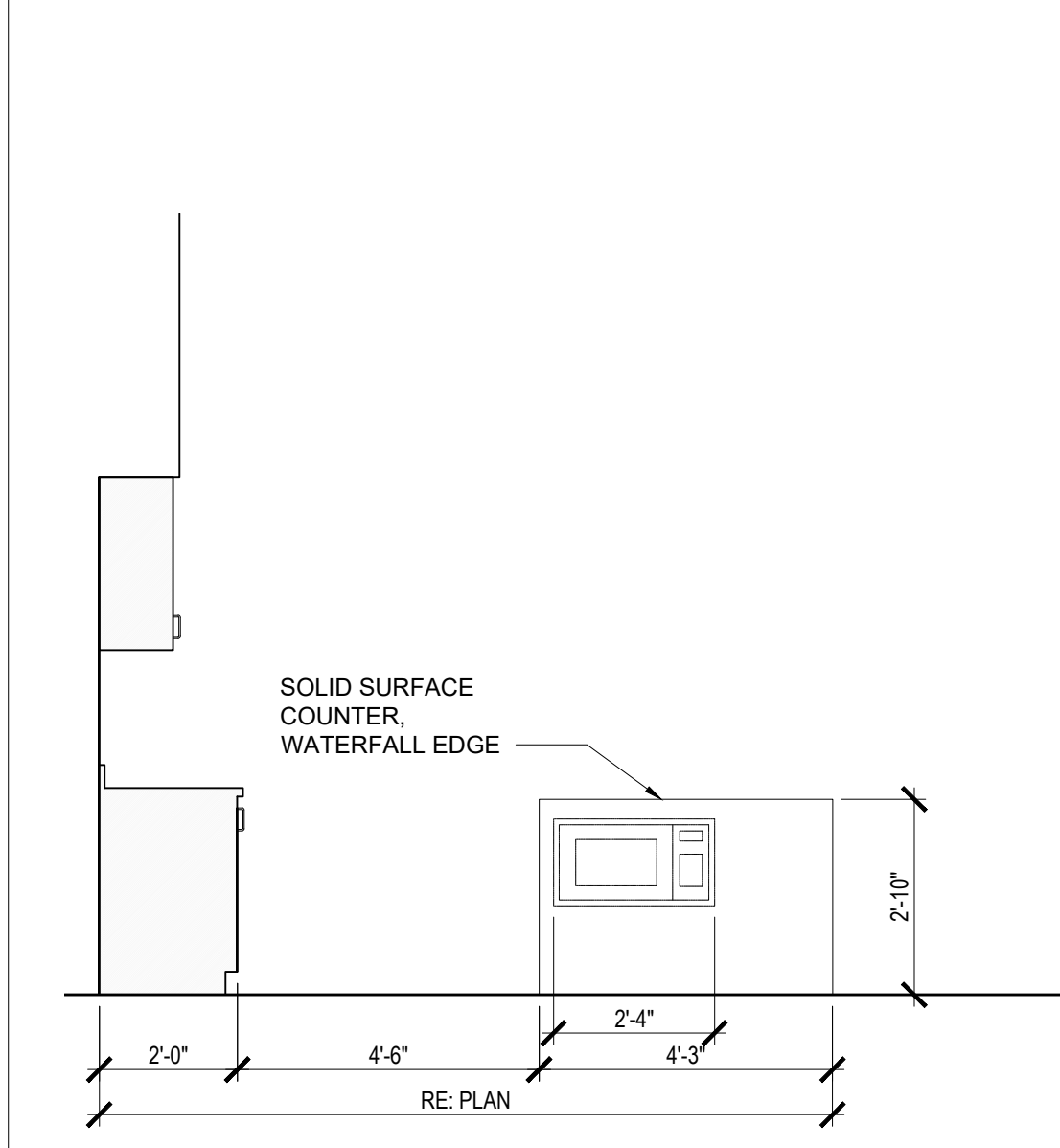
Professional Seal
 Scale: 1/4" = 1'-0"
 Sht Description:
INTERIOR ELEVATIONS



1 1014: MAIN BREAK
Scale: 3/8" = 1'-0"

2 1014: MAIN BREAK
Scale: 3/8" = 1'-0"

3 1014: MAIN BREAK
Scale: 3/8" = 1'-0"

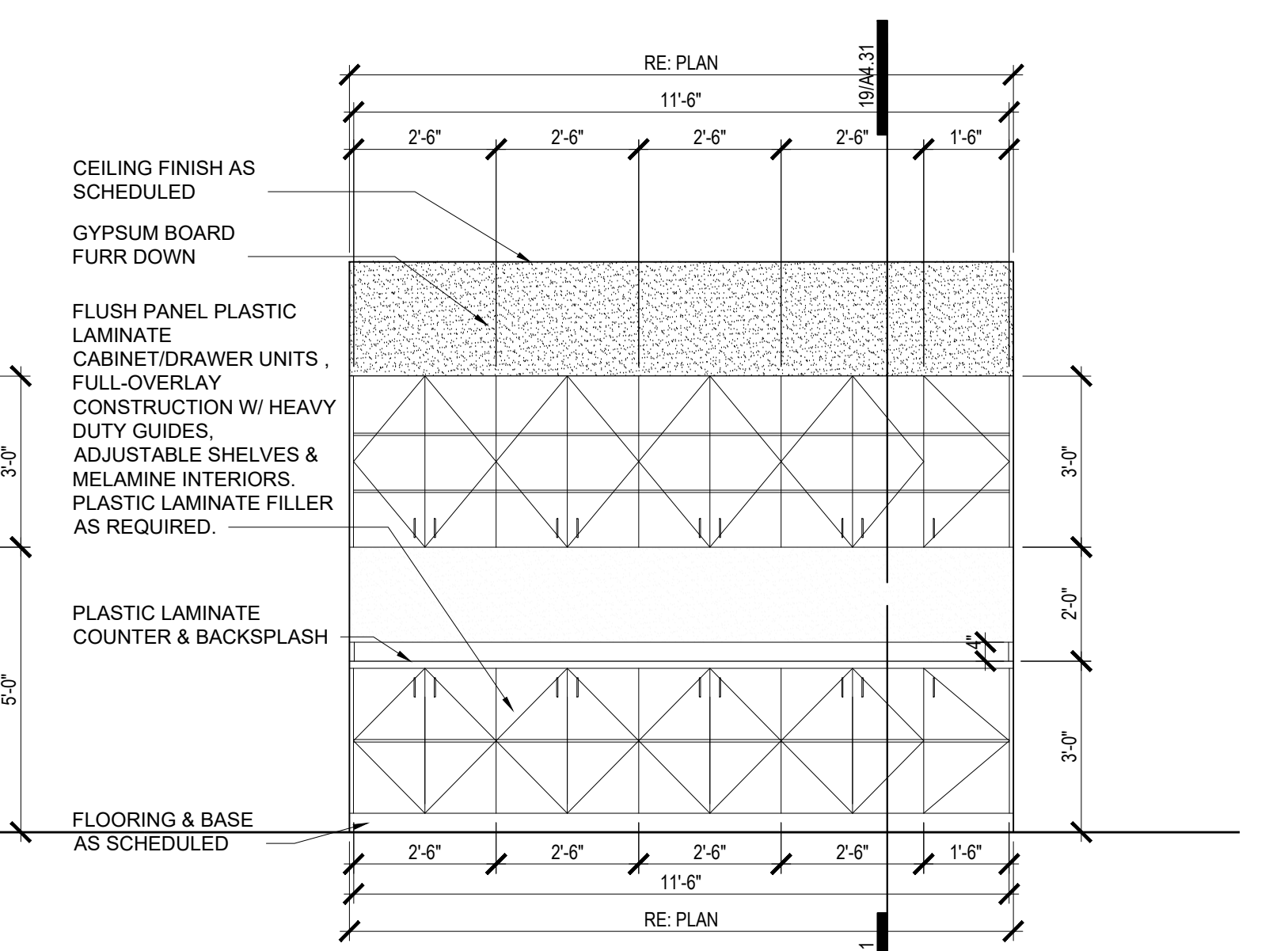
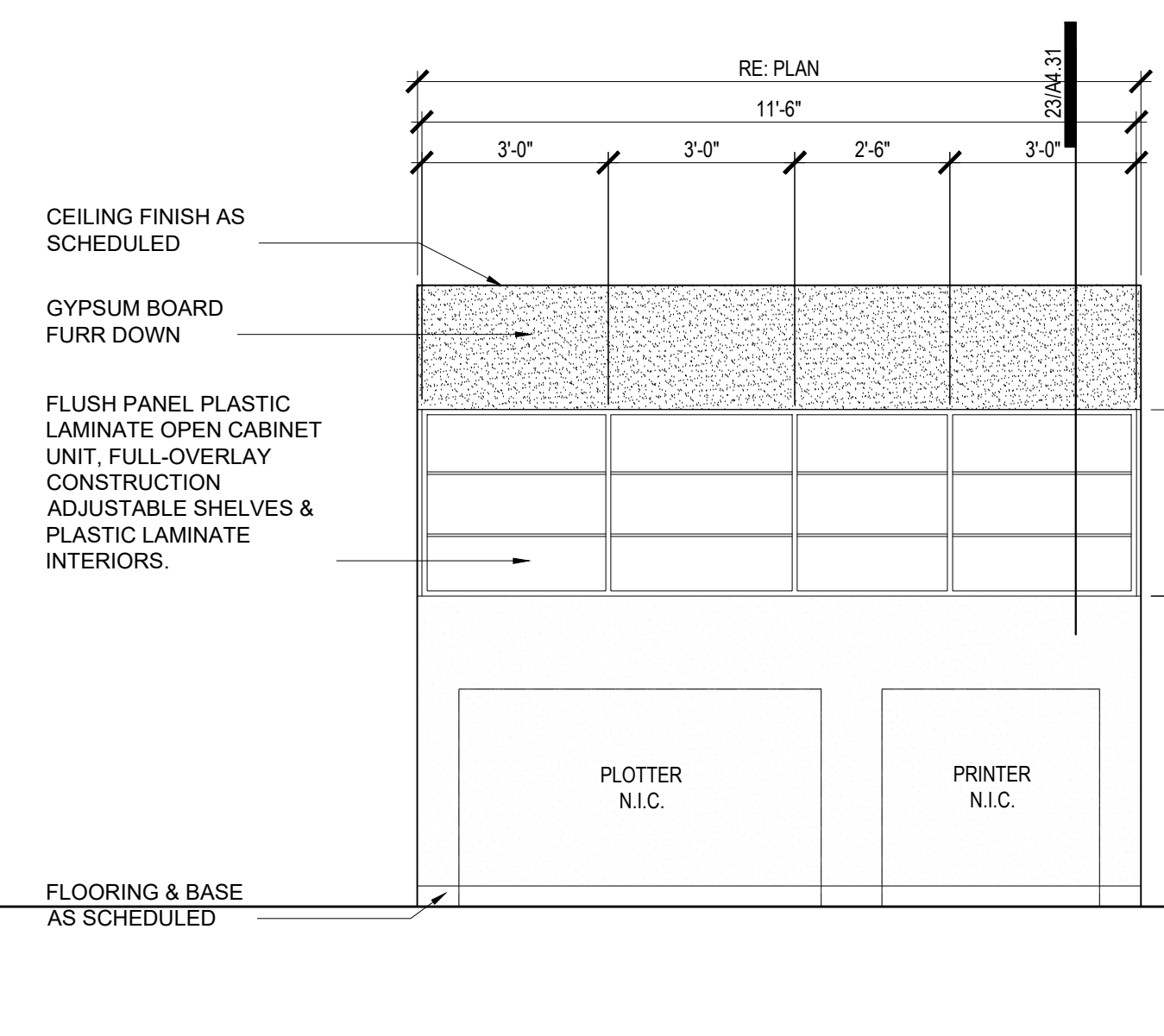
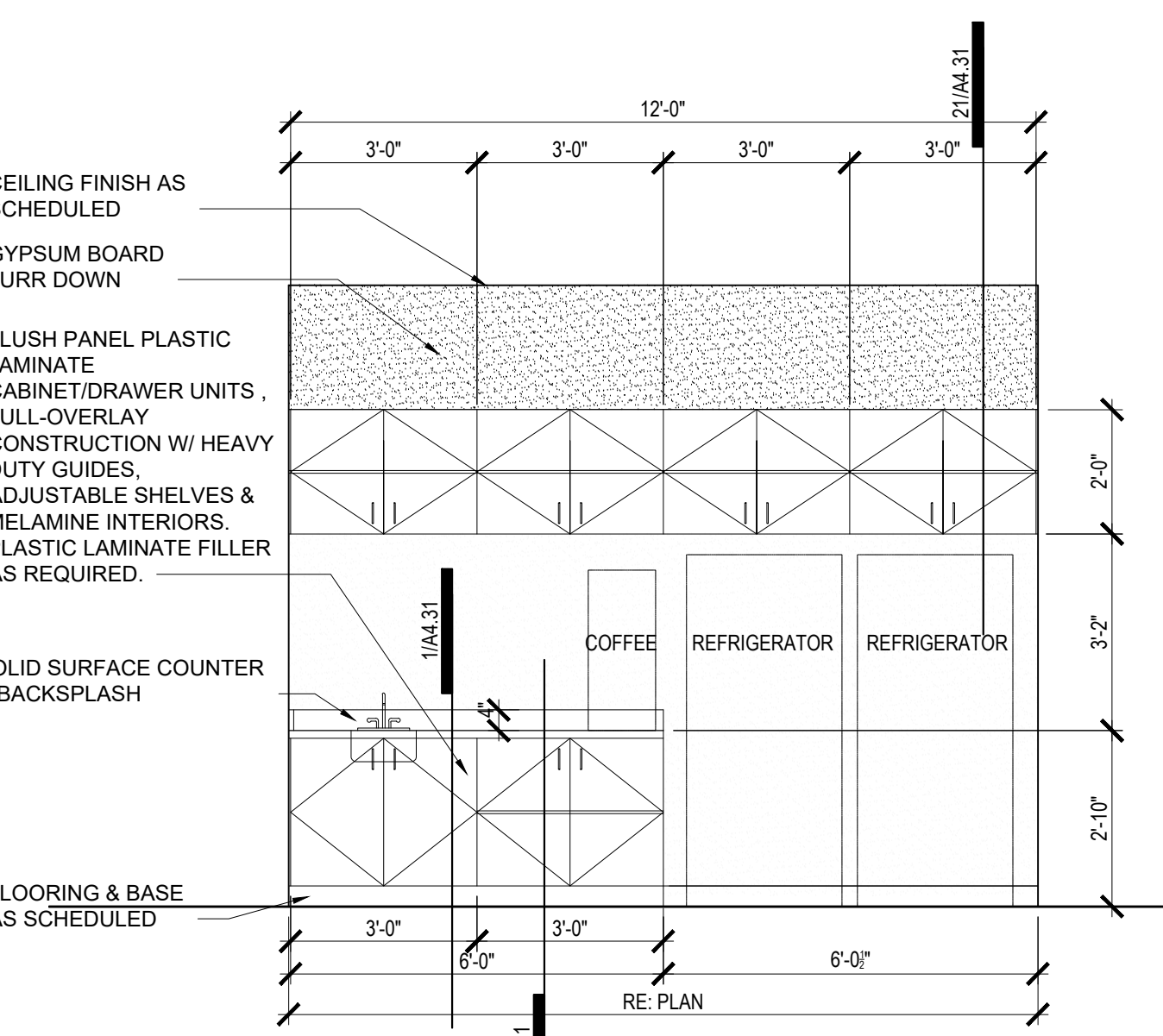
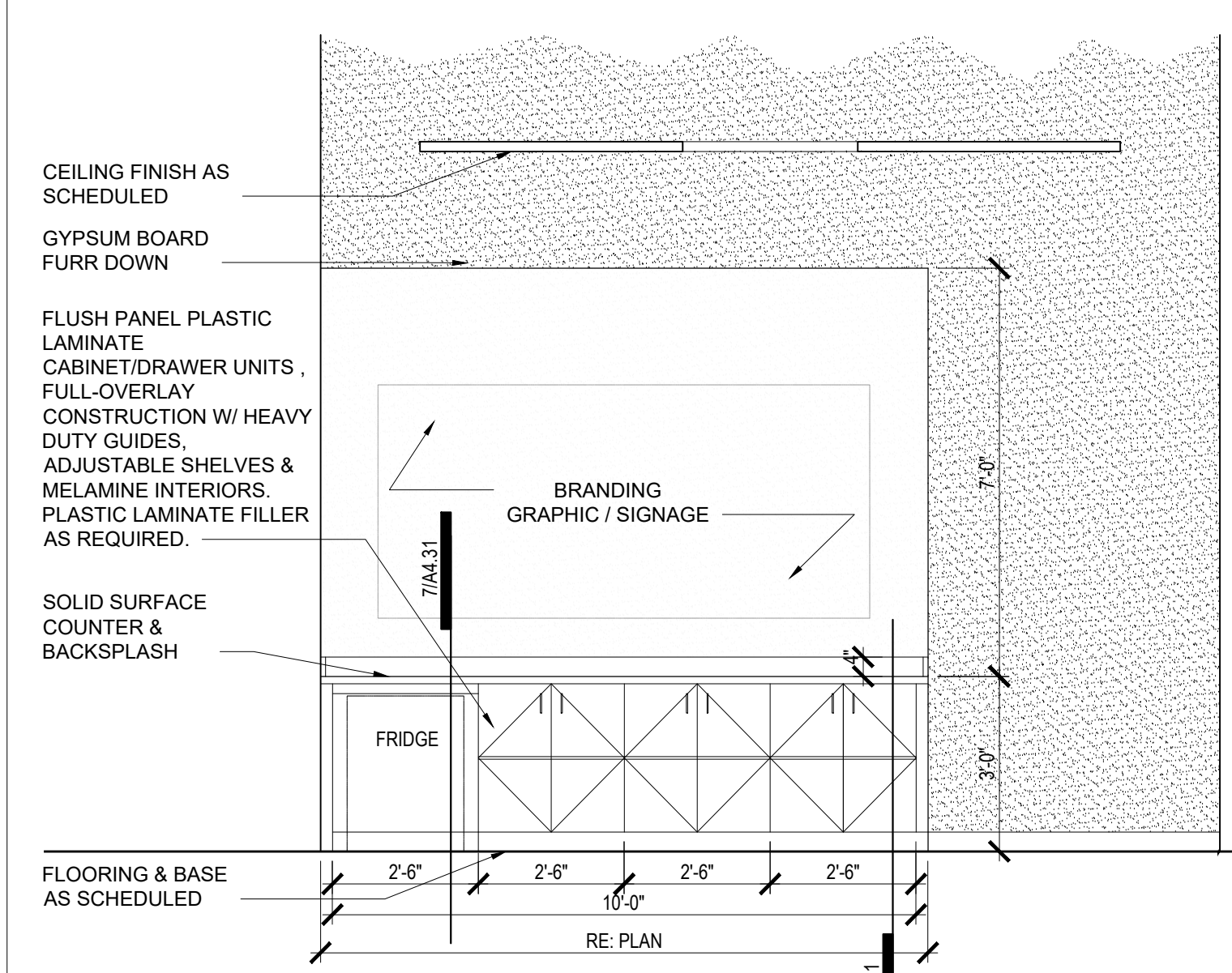


4 1014: MAIN BREAK
Scale: 3/8" = 1'-0"

5 1205: COPY/WORKROOM
Scale: 3/8" = 1'-0"

6 1205: COPY/WORKROOM
Scale: 3/8" = 1'-0"

7 1259: BOARD ROOM
Scale: 3/8" = 1'-0"



8 1259: BOARD ROOM
Scale: 3/8" = 1'-0"

9 1235: REFRESHMENT
Scale: 3/8" = 1'-0"

10 1239: COPY/WORK
Scale: 3/8" = 1'-0"

11 1239: COPY/WORK
Scale: 3/8" = 1'-0"

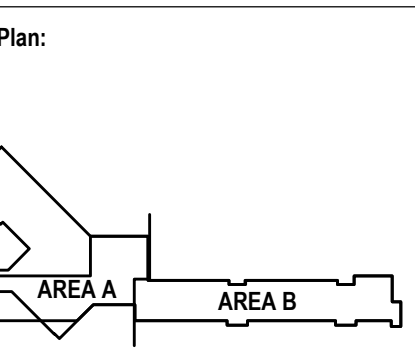
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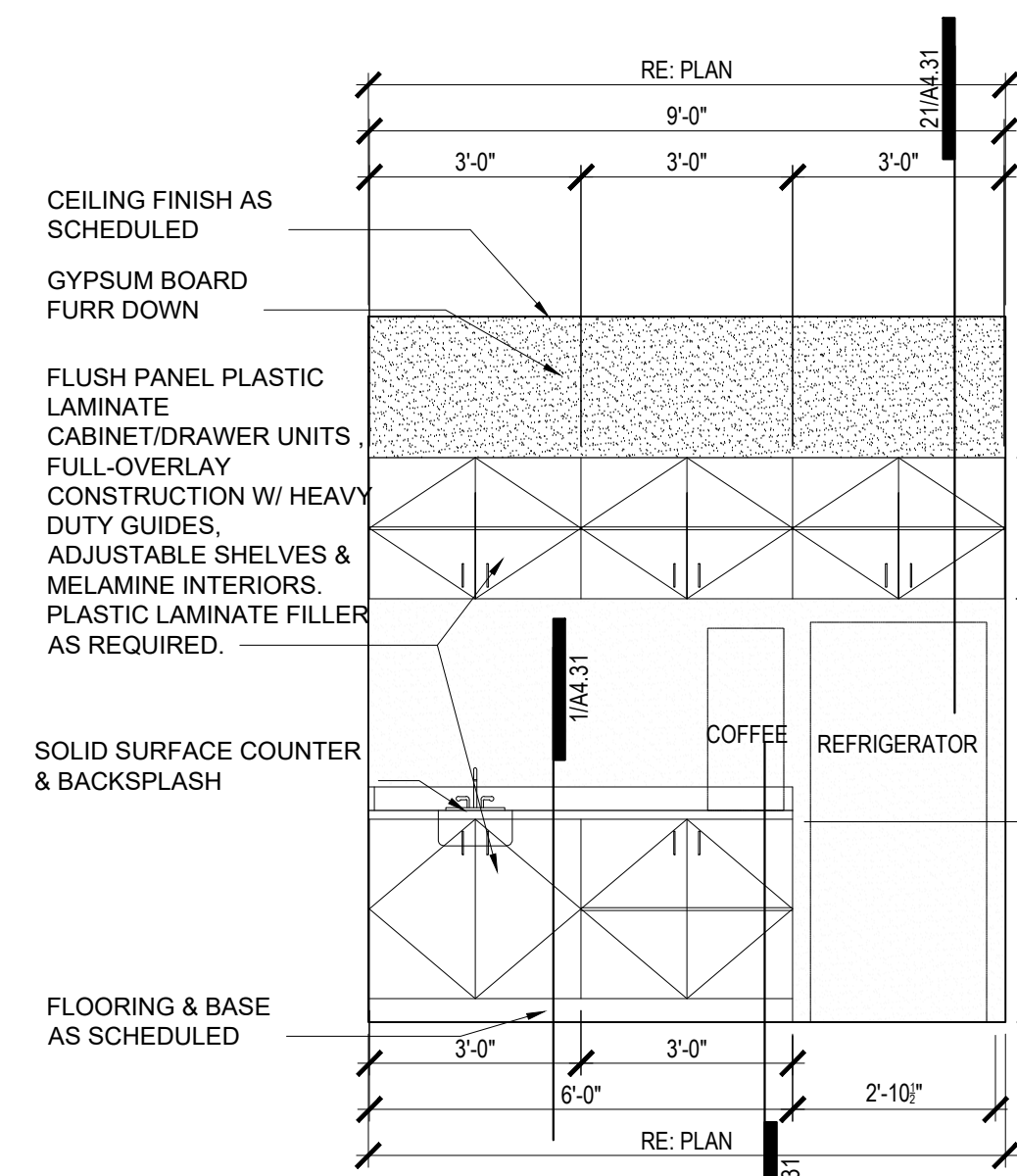
Phase: Bid Documents
Date: 10-26-23
Revisions:



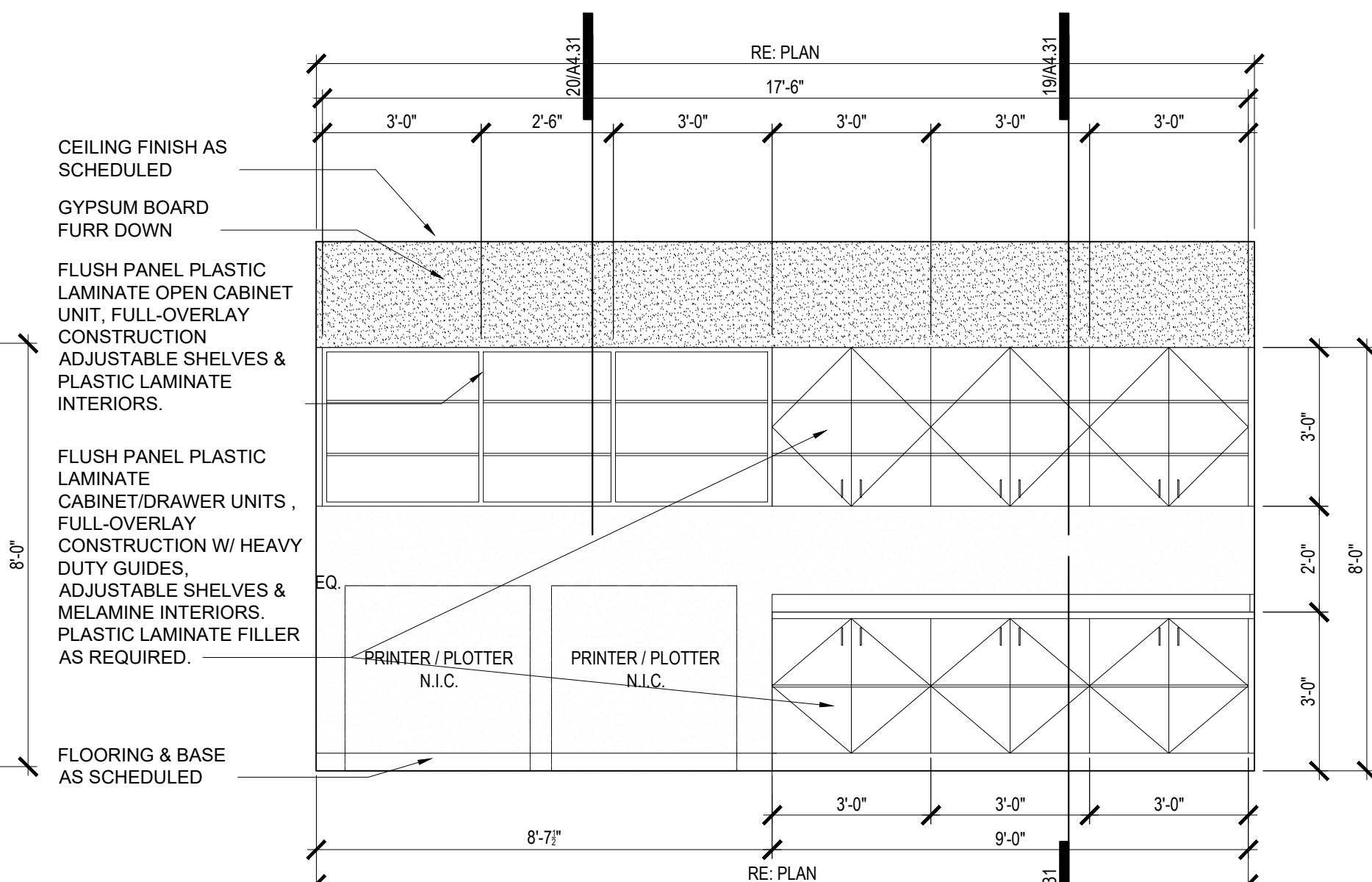
Professional Seal
Scale: 1/4" = 1'-0"
Sht Description: INTERIOR ELEVATIONS

A4.23
North

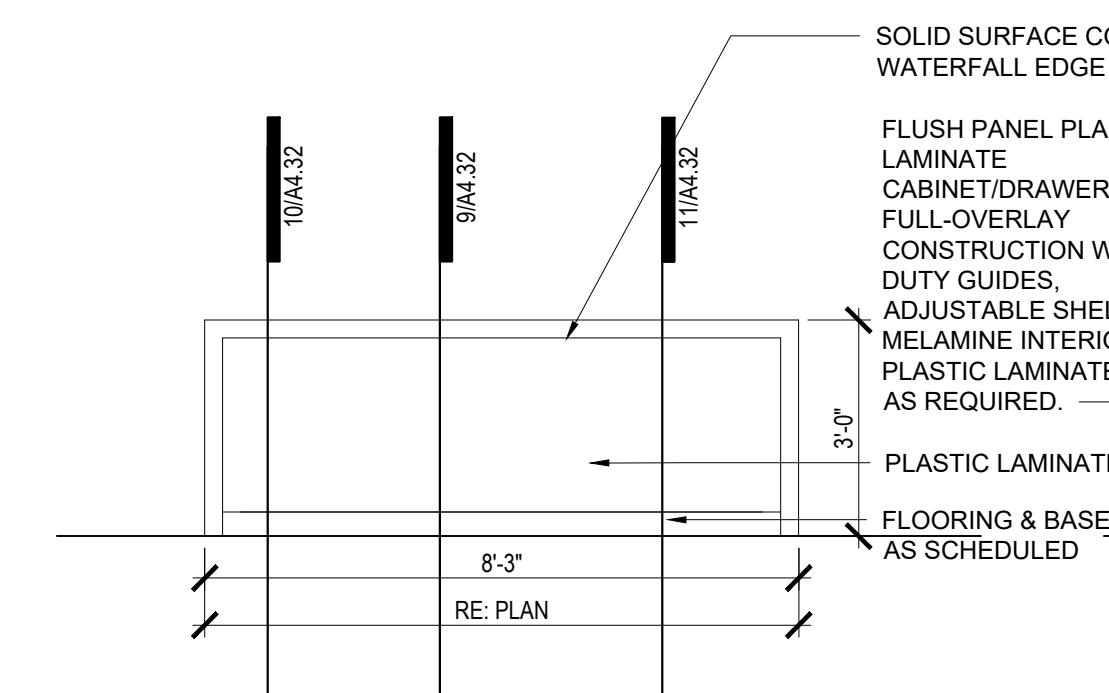
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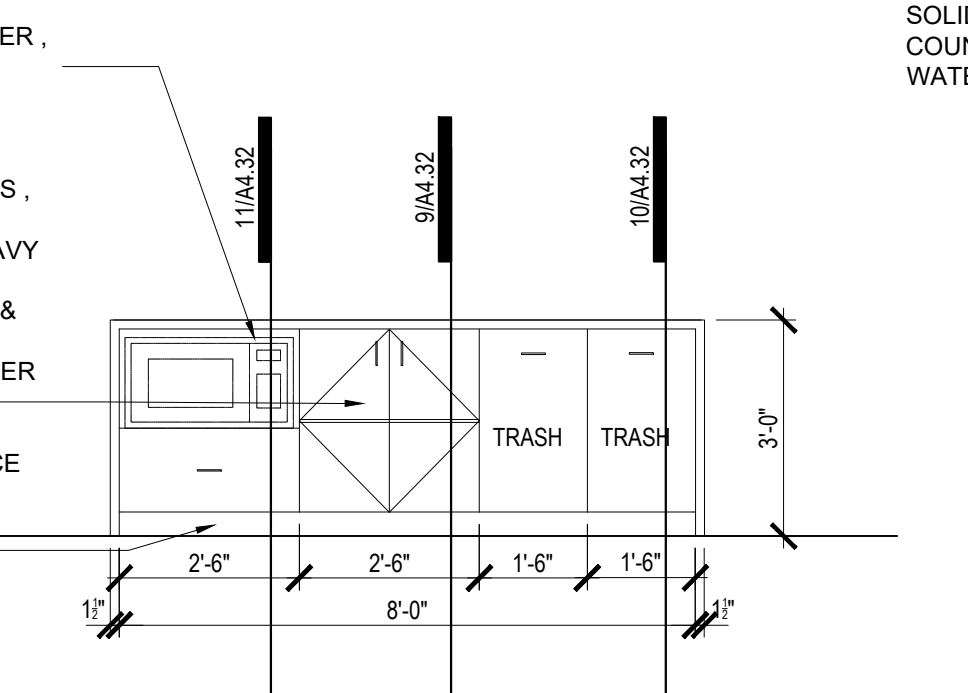
1 2436: COPY/REFRESH
 Scale: 3/8" = 1'-0"



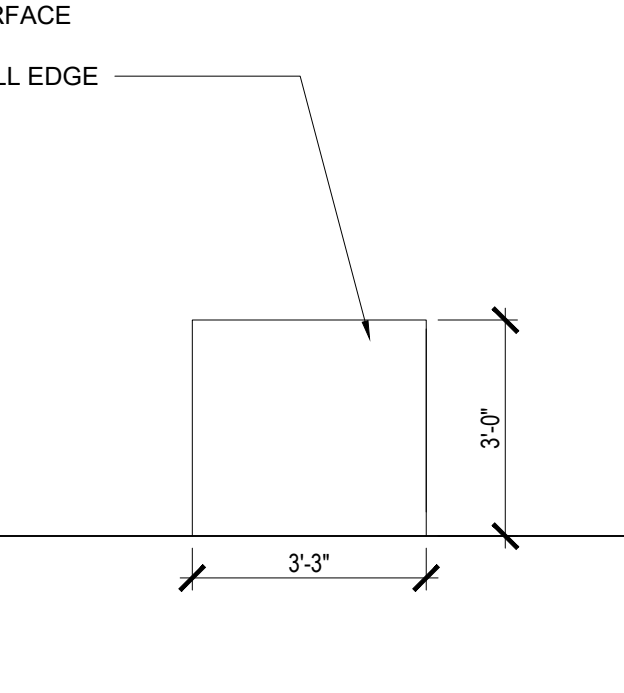
2 2436: COPY/ REFRESHMENT
 Scale: 3/8" = 1'-0"



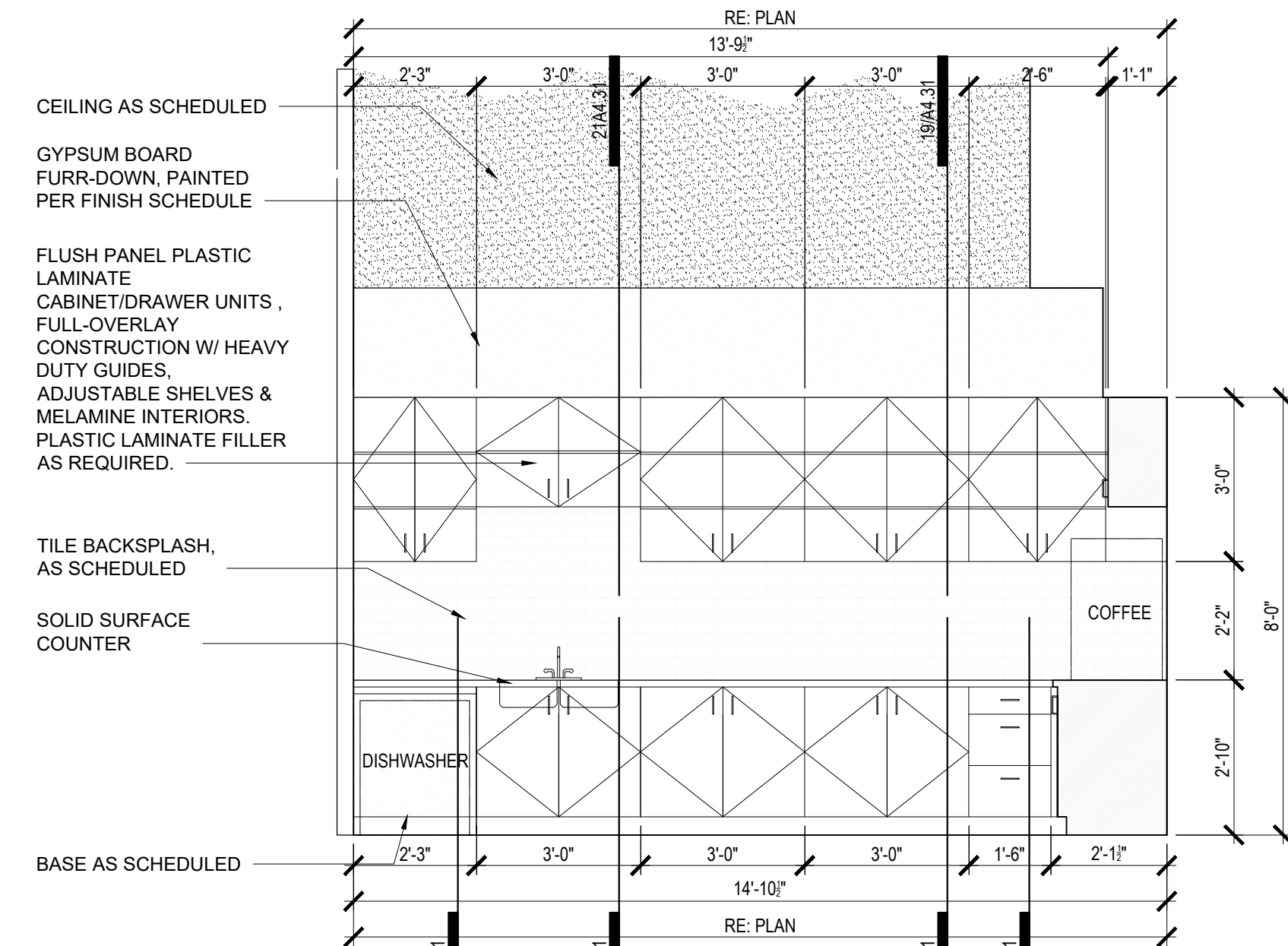
3 2102: SECONDARY BREAK
 Scale: 3/8" = 1'-0"



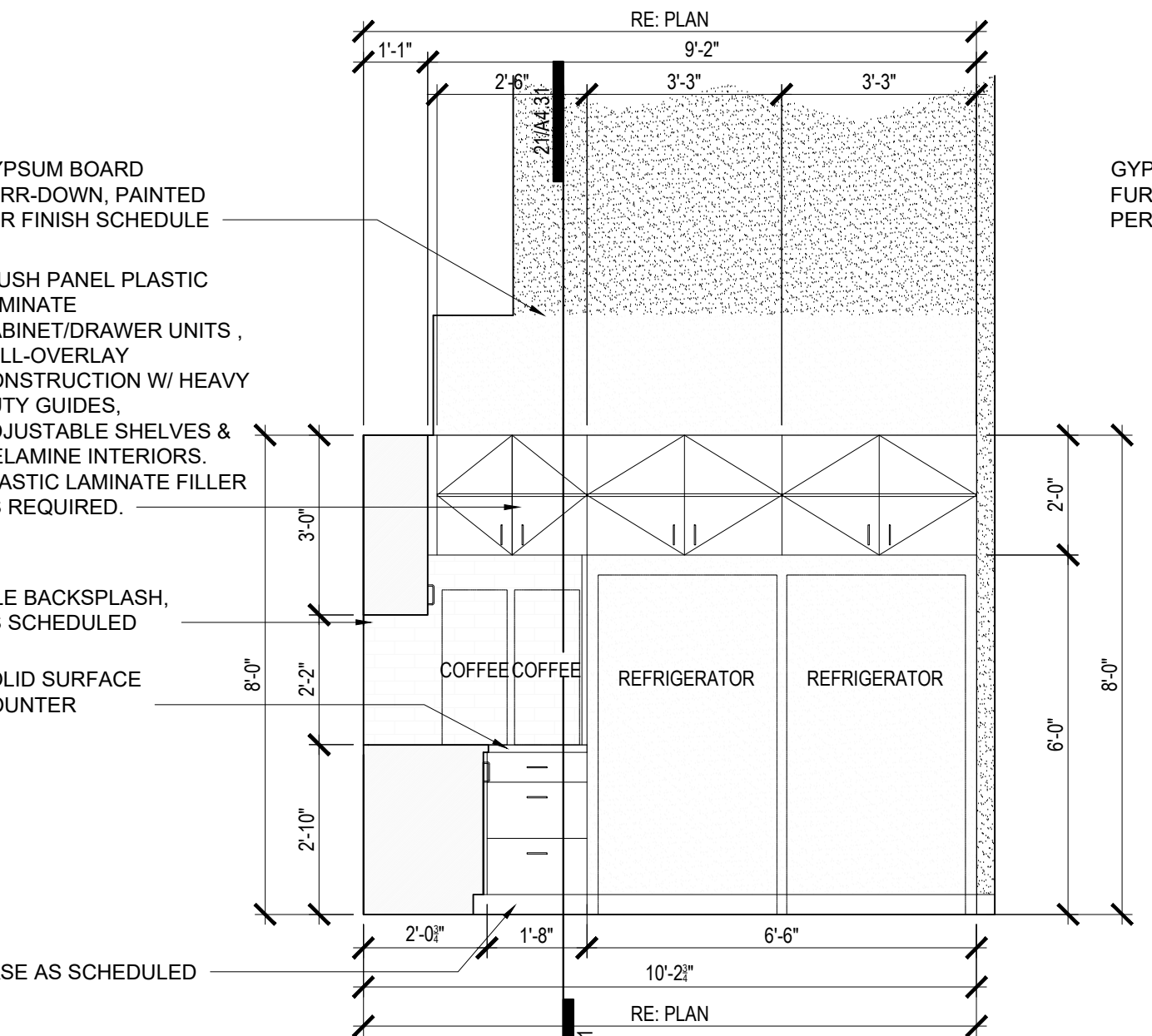
4 2102: SECONDARY BREAK
 Scale: 3/8" = 1'-0"



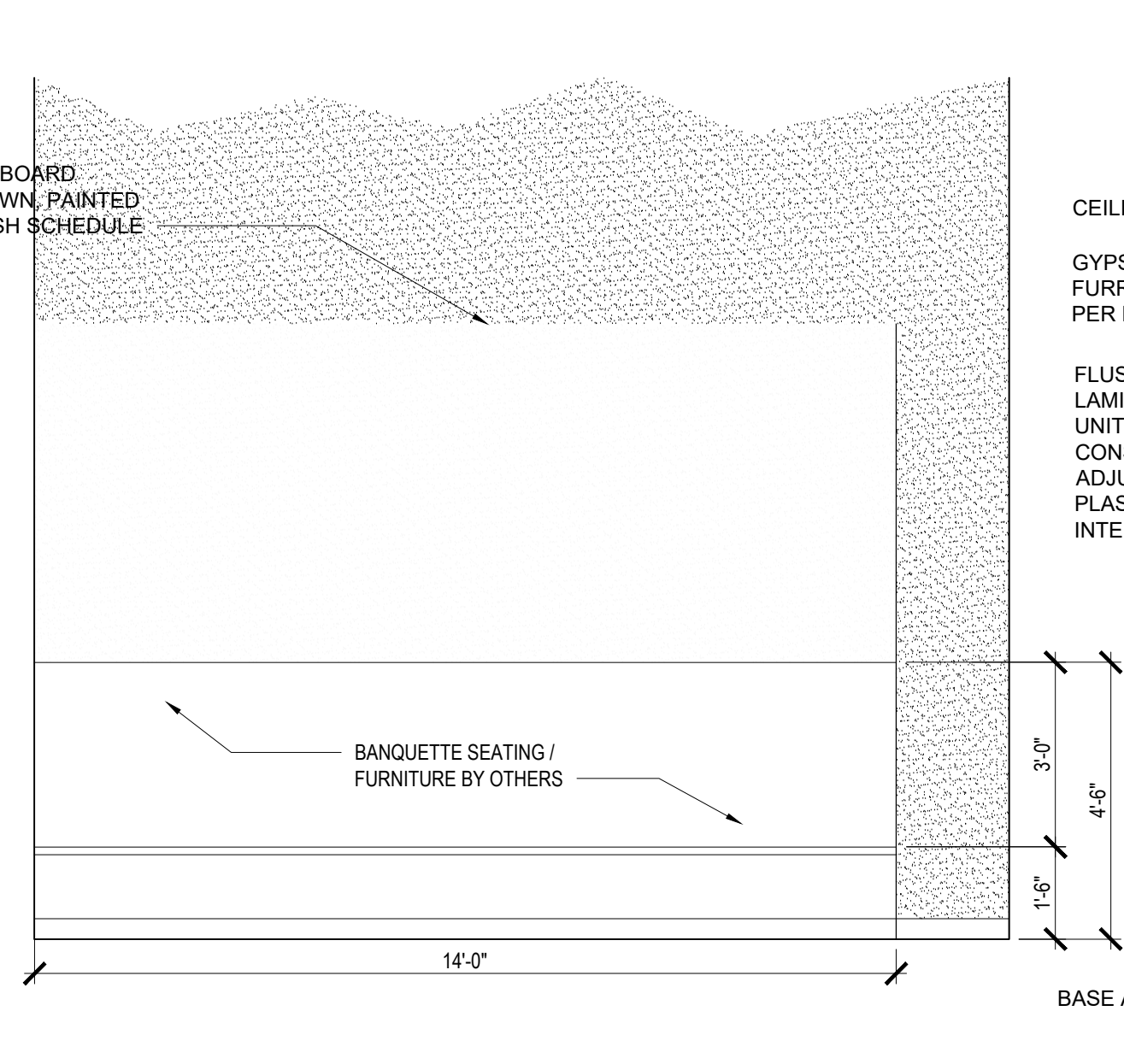
5 2102: SEC. BREAK
 Scale: 3/8" = 1'-0"



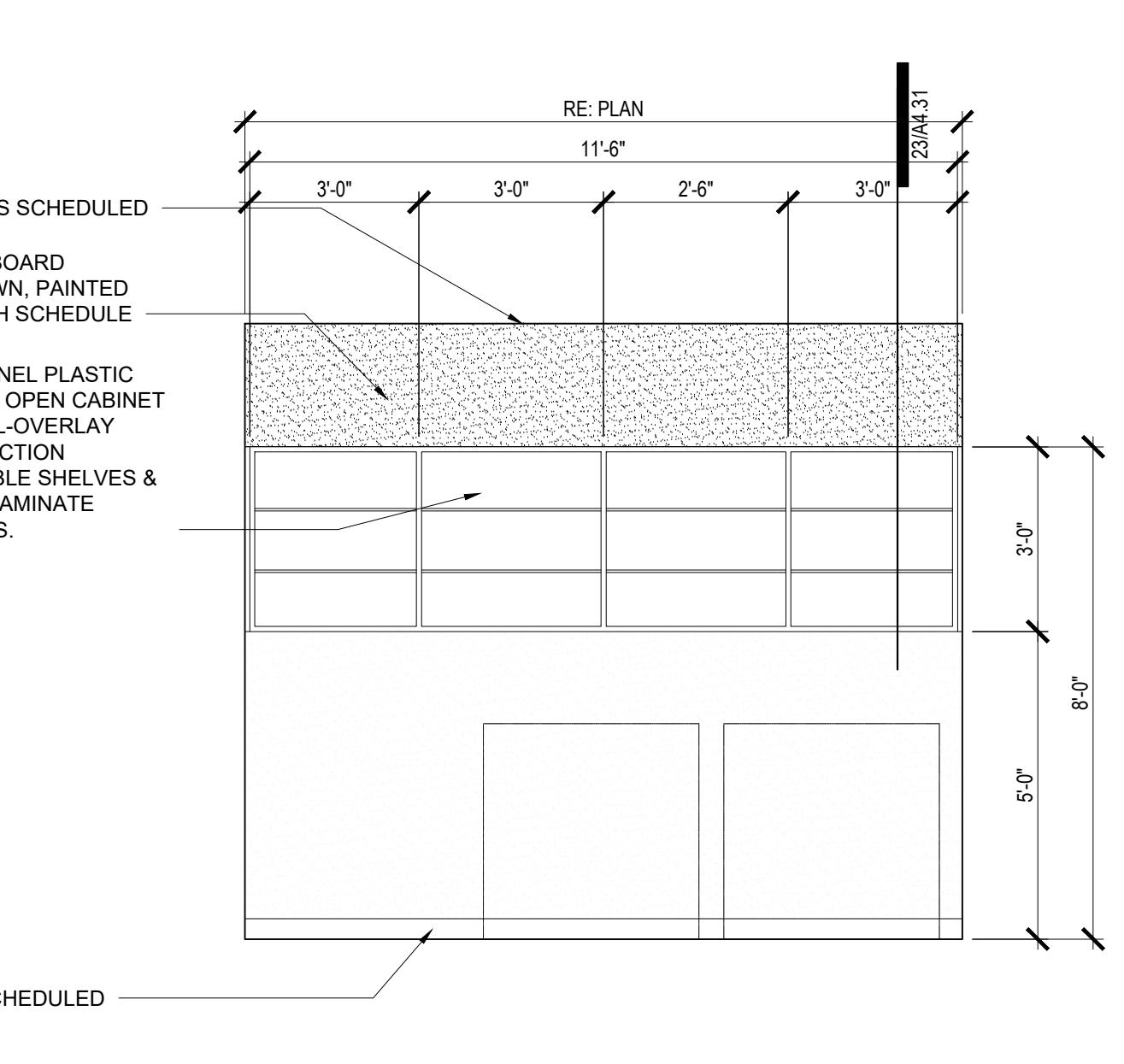
6 2201: BREAK
 Scale: 3/8" = 1'-0"



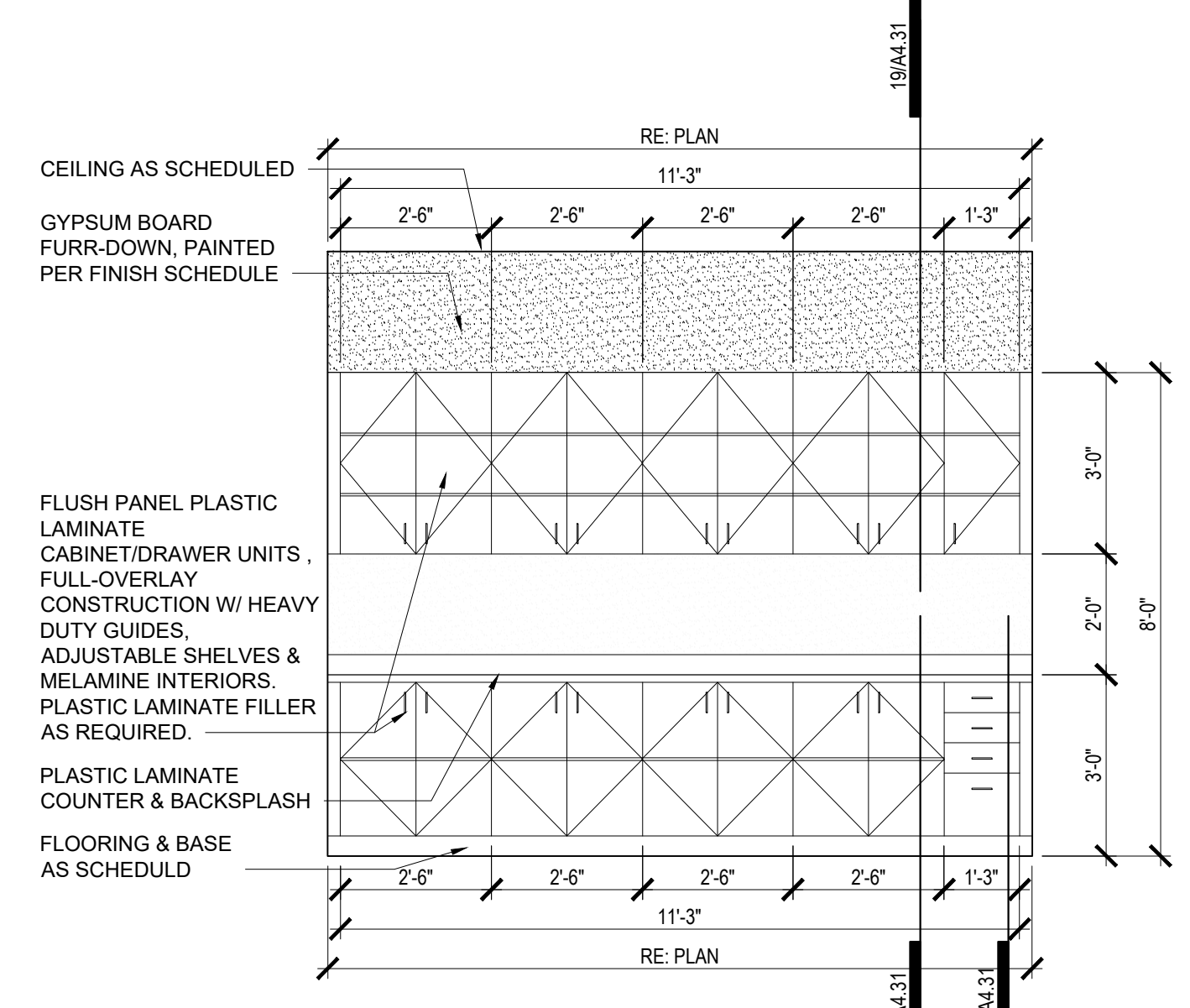
7 2201: BREAK
 Scale: 3/8" = 1'-0"



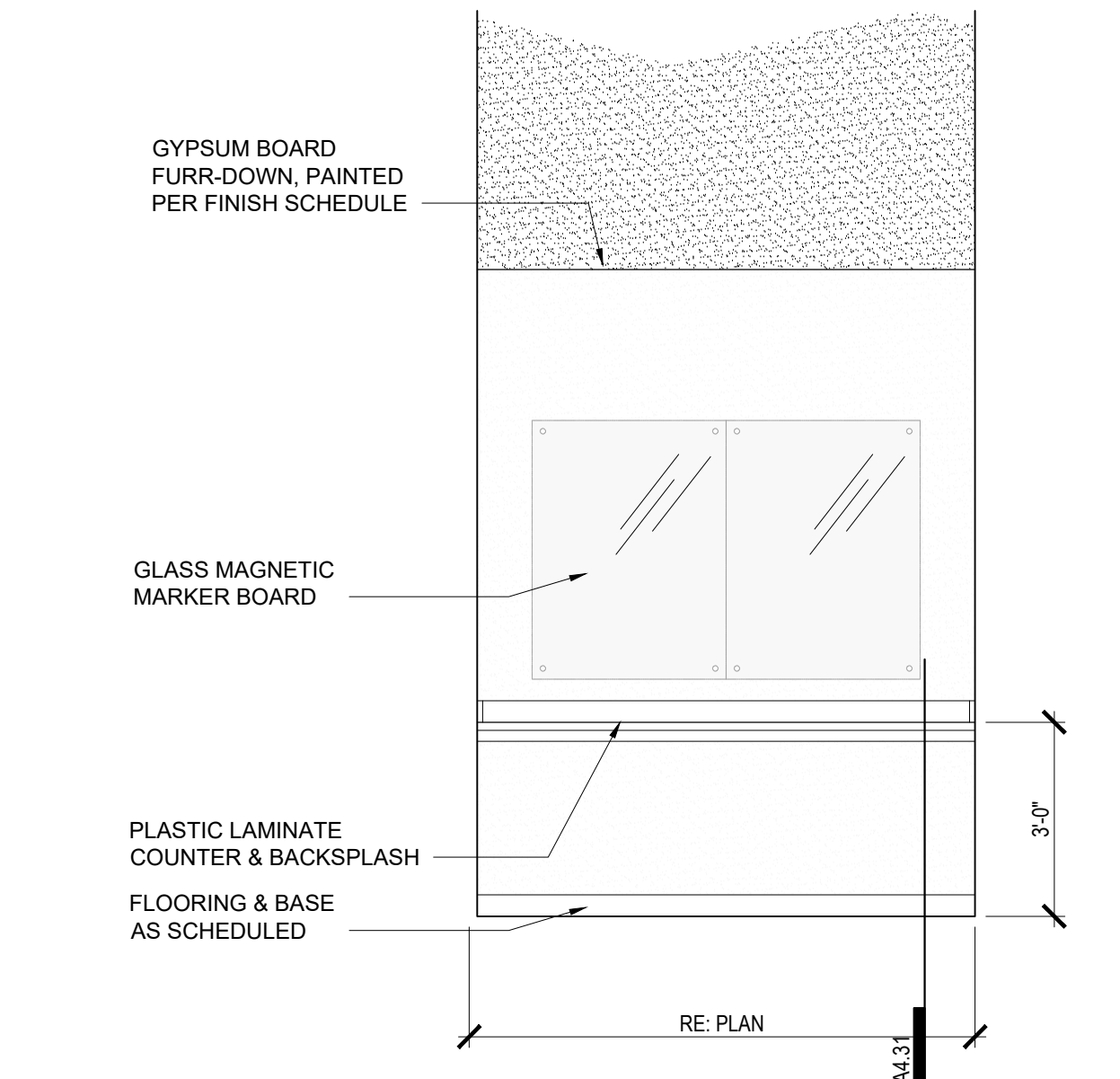
8 2201: BREAK
 Scale: 3/8" = 1'-0"



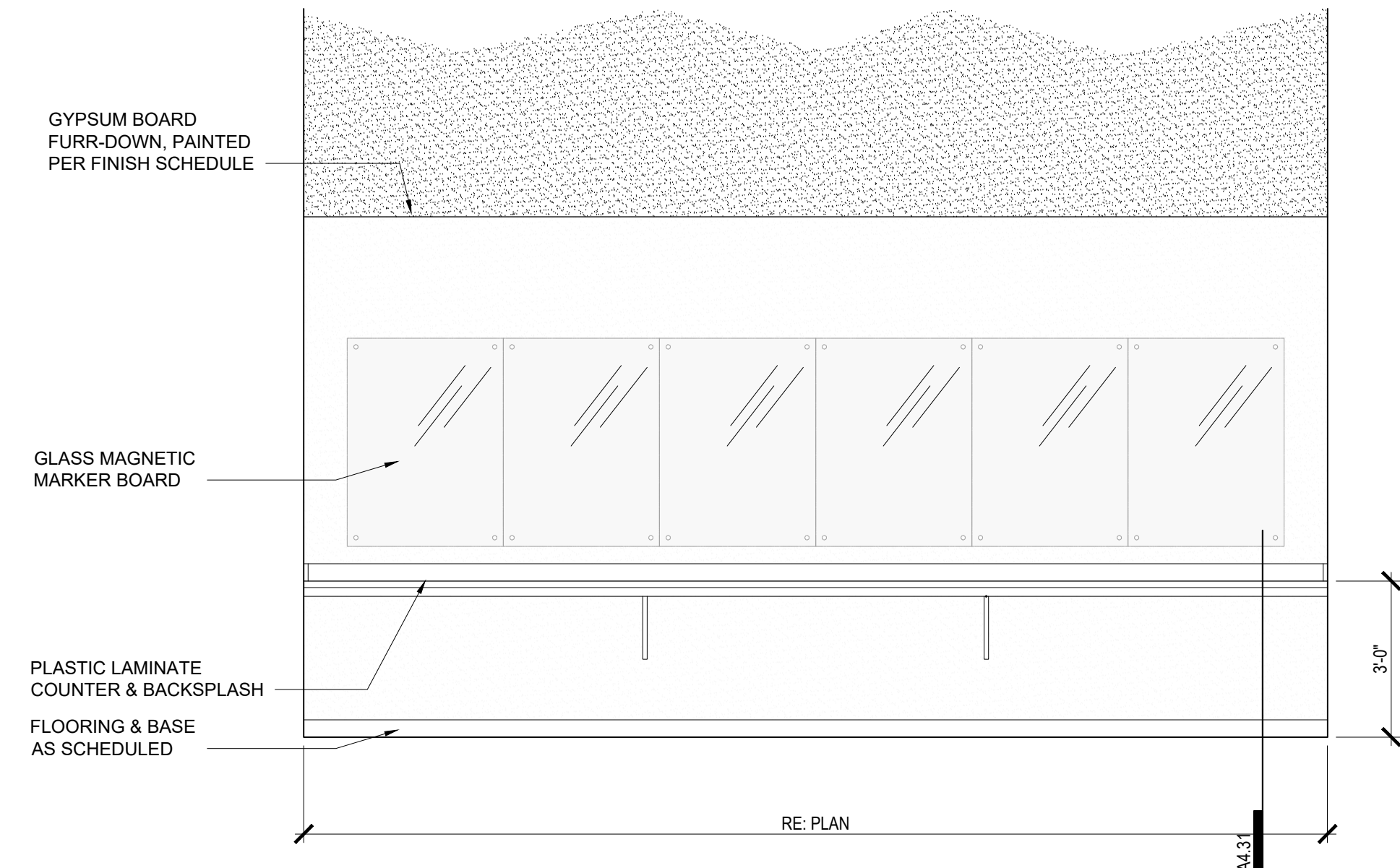
9 2217: COPY/WORK
 Scale: 3/8" = 1'-0"



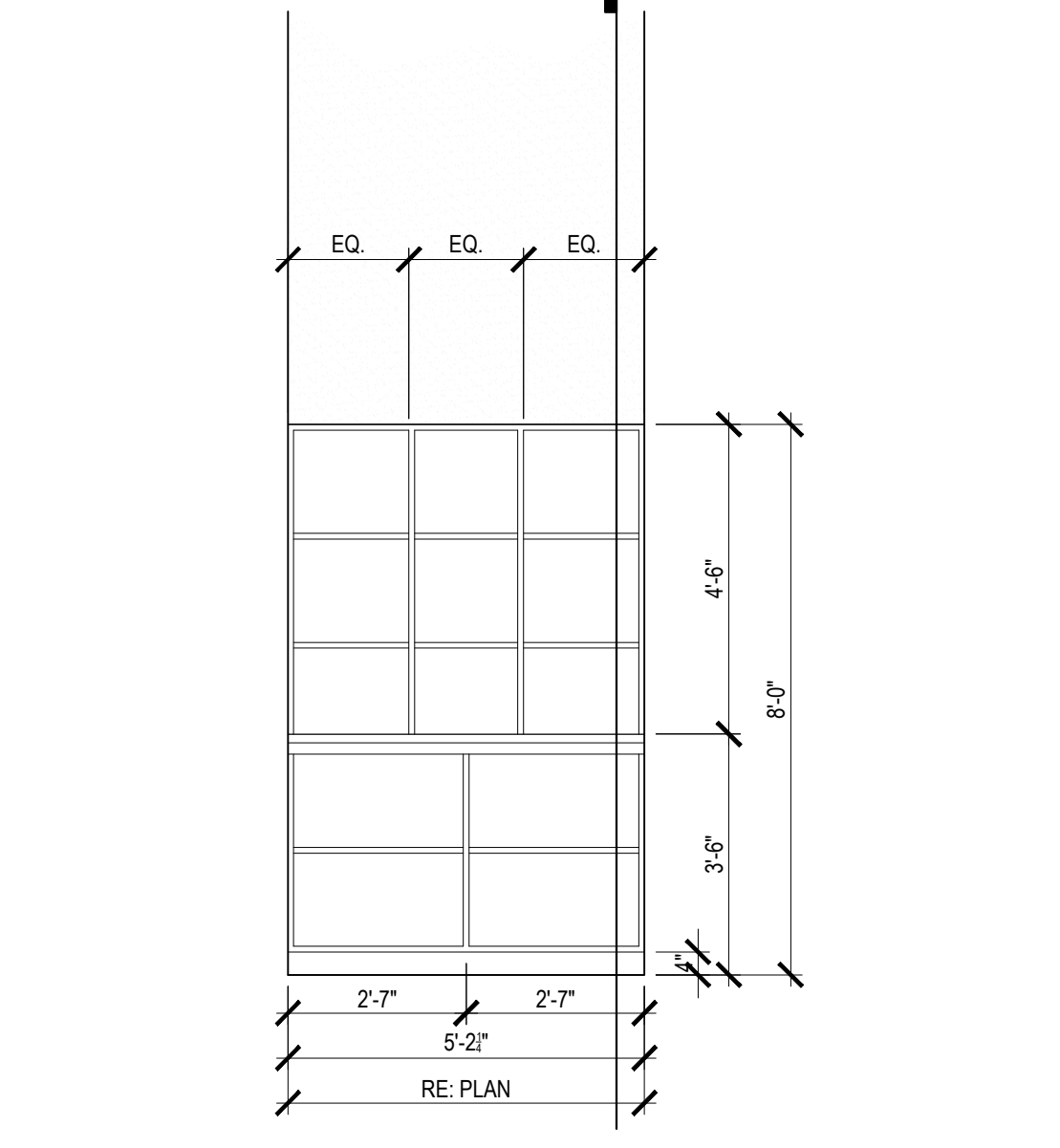
10 2217: COPY/WORK
 Scale: 3/8" = 1'-0"



11 1213/ 1215: COLLABORATION
 Scale: 3/8" = 1'-0"



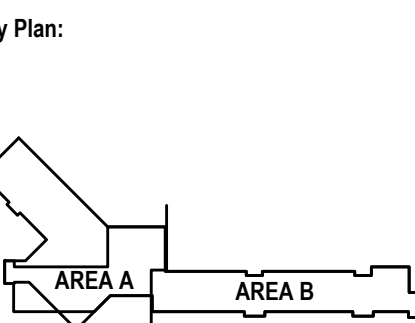
12 2244: LAYOUT
 Scale: 3/8" = 1'-0"



13 1018: GYM/ HEALTH CLUB
 Scale: 3/8" = 1'-0"

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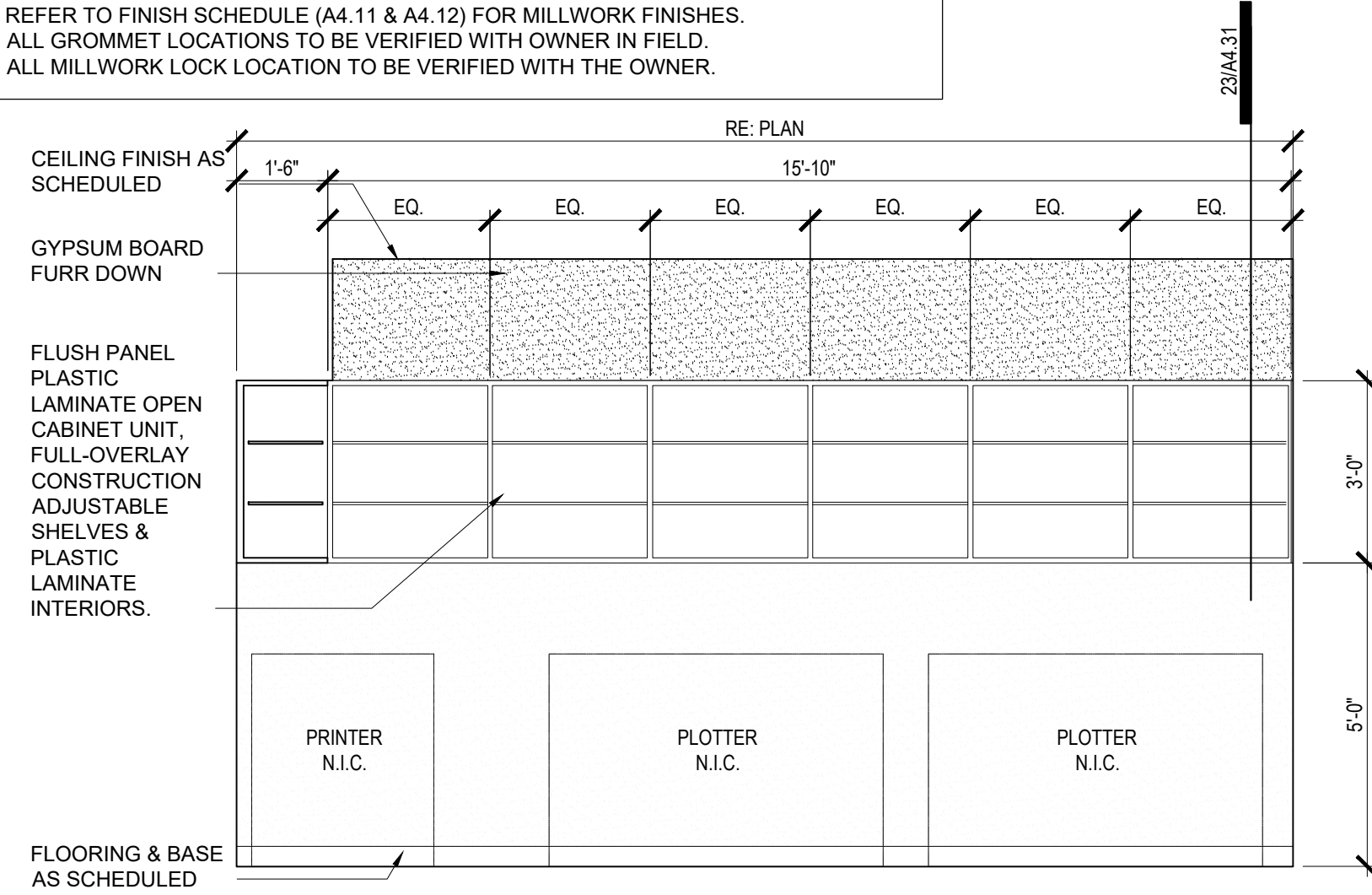
Phase: Bid Documents
 Date: 10-26-23
 Revisions:



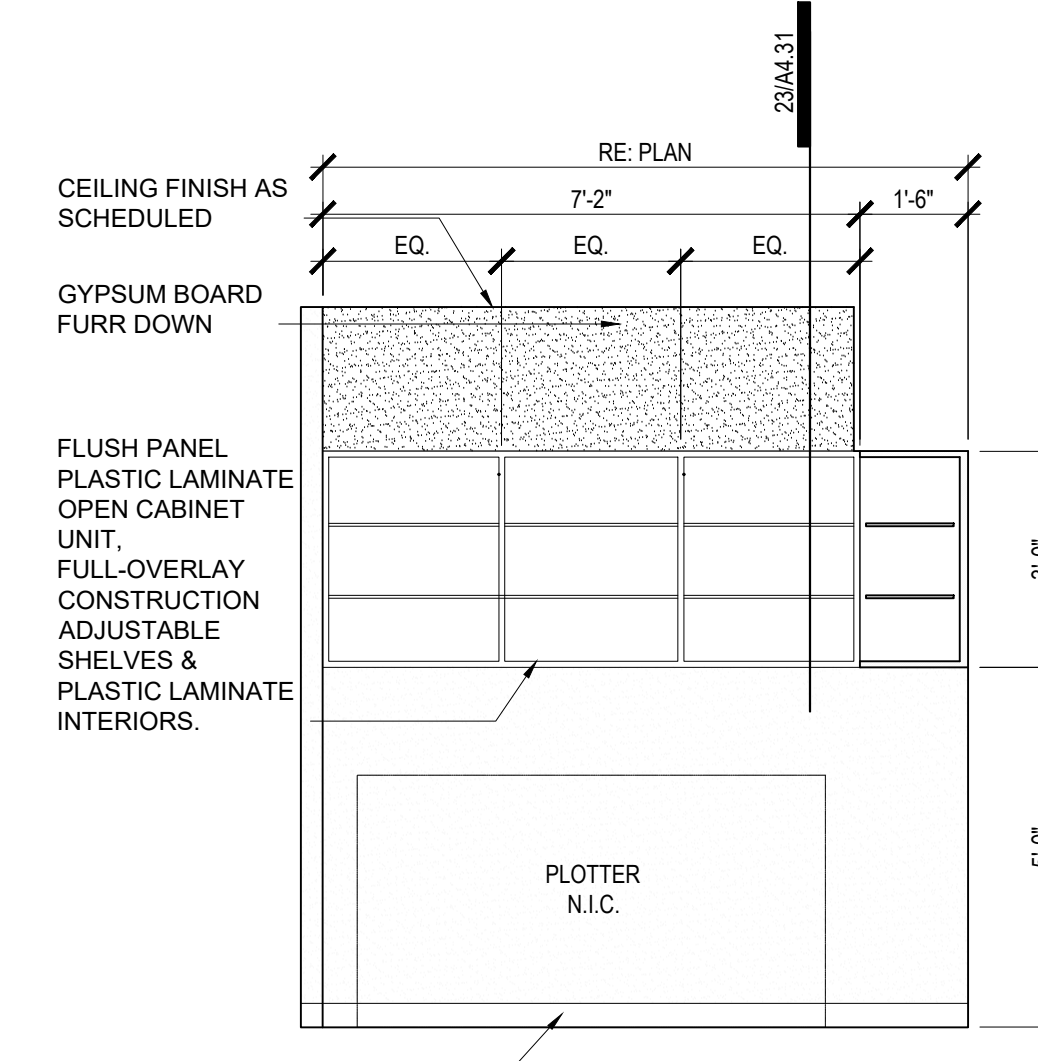
Professional Seal
 Scale: 1/4" = 1'-0"
 Sht Description:
 INTERIOR ELEVATIONS

North
A4.24

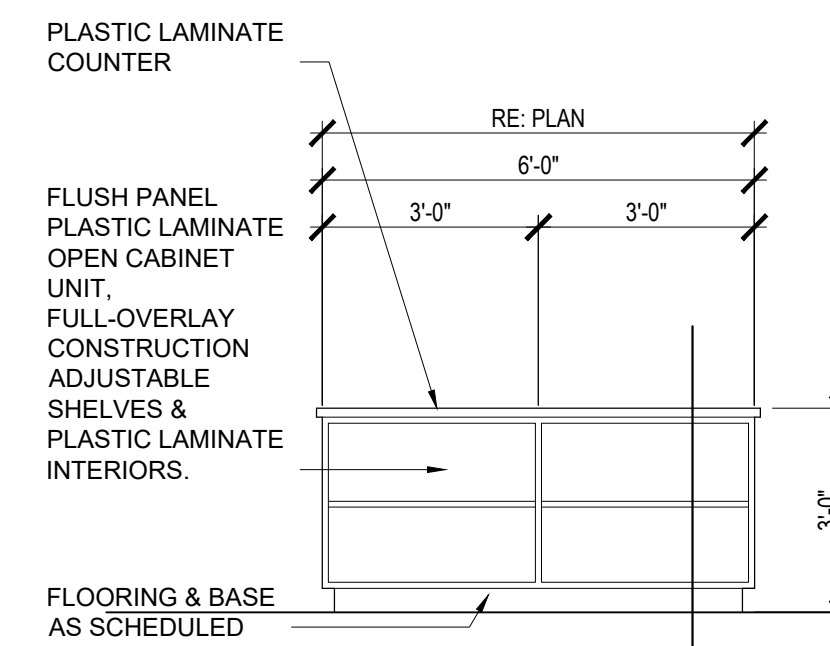
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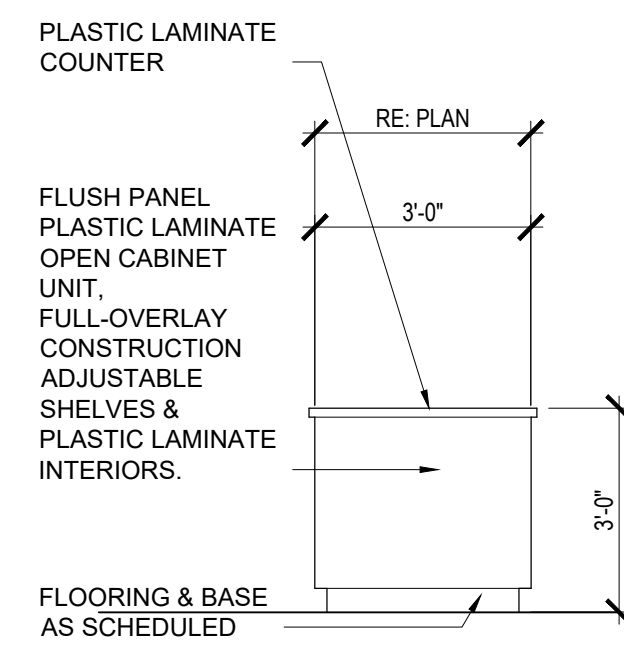
1 2227: COPY/WORK
 Scale: 3/8" = 1'-0"



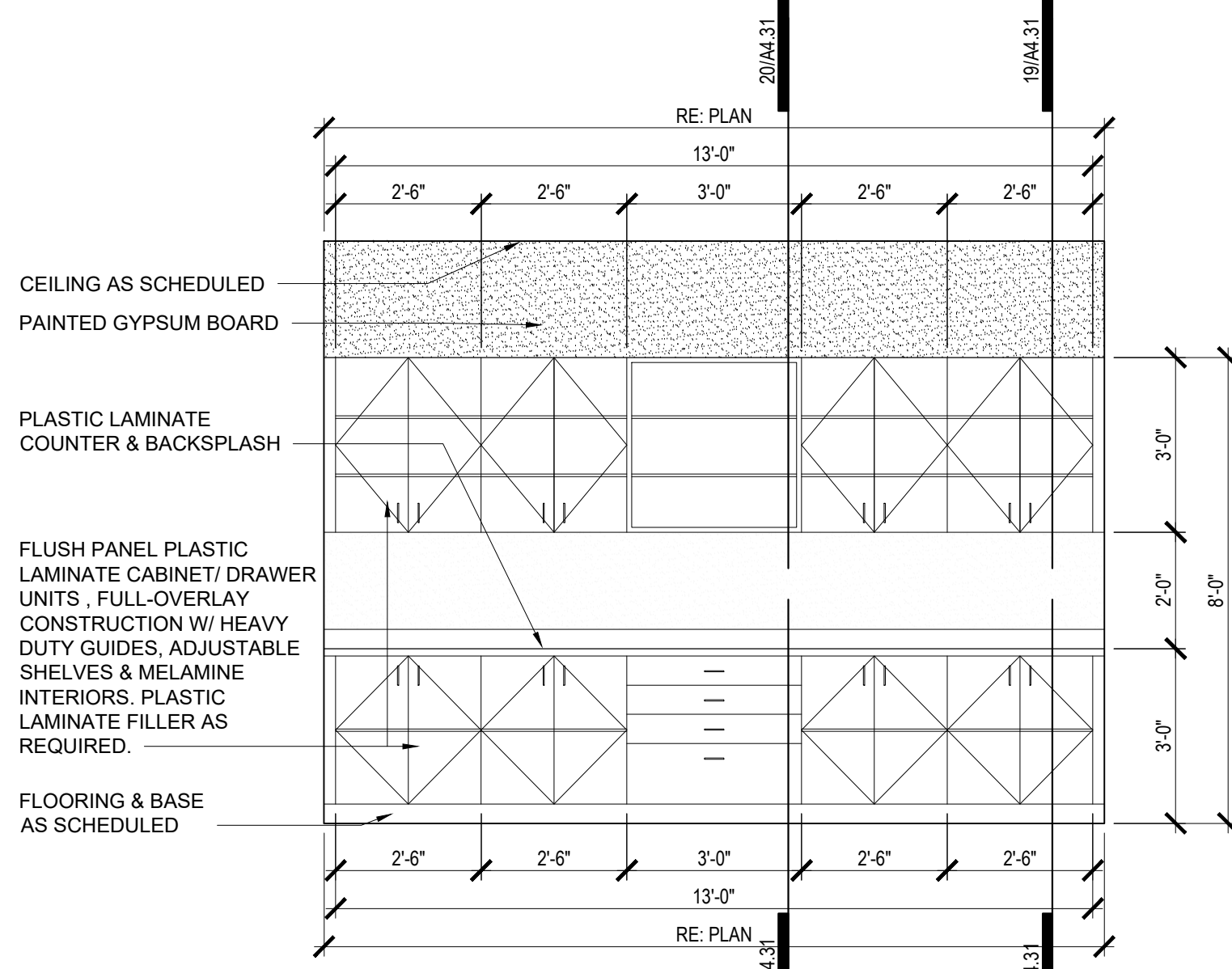
2 2227: COPY/WORK
 Scale: 3/8" = 1'-0"



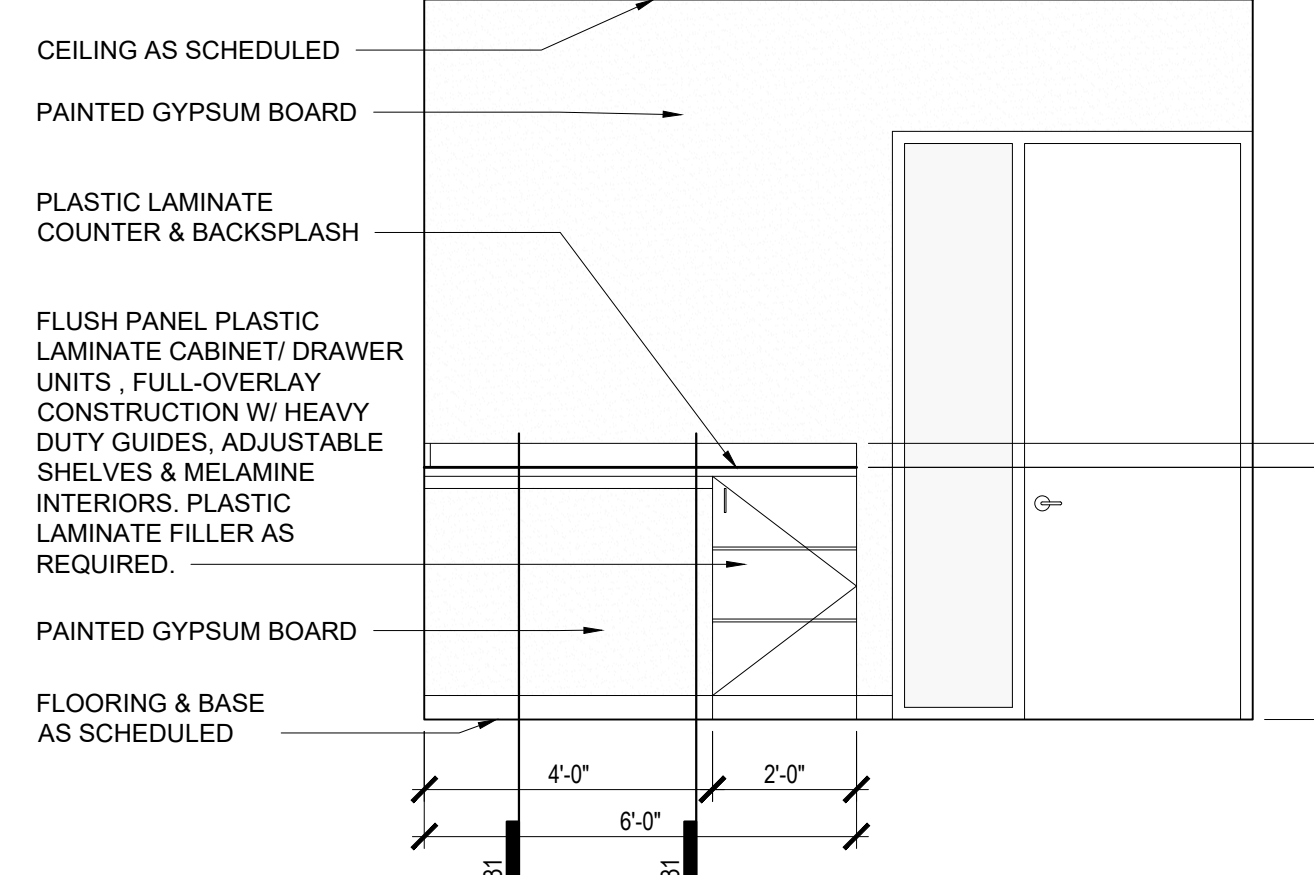
3 2227: COPY/WORK
 Scale: 3/8" = 1'-0"



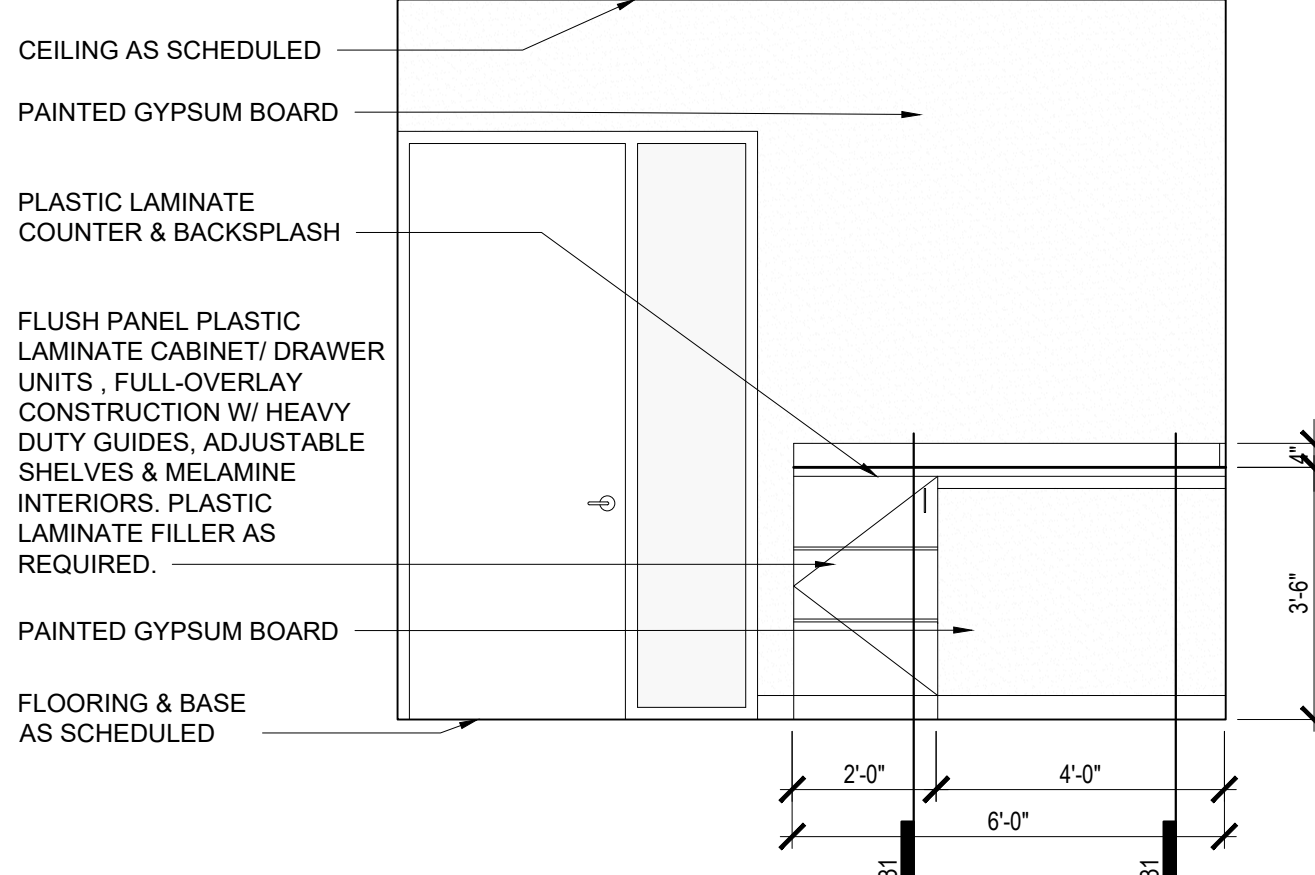
4 2227: COPY/WORK
 Scale: 3/8" = 1'-0"



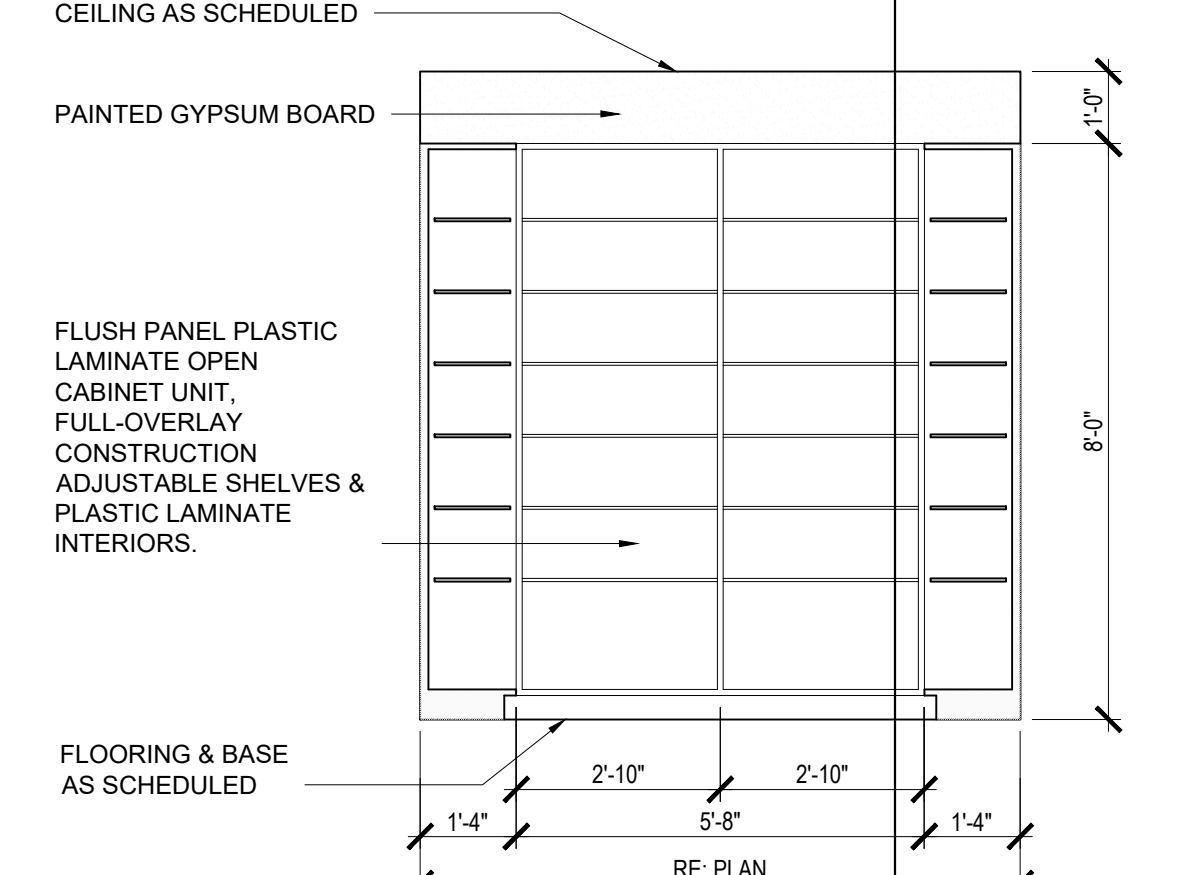
5 2227: COPY/WORK
 Scale: 3/8" = 1'-0"



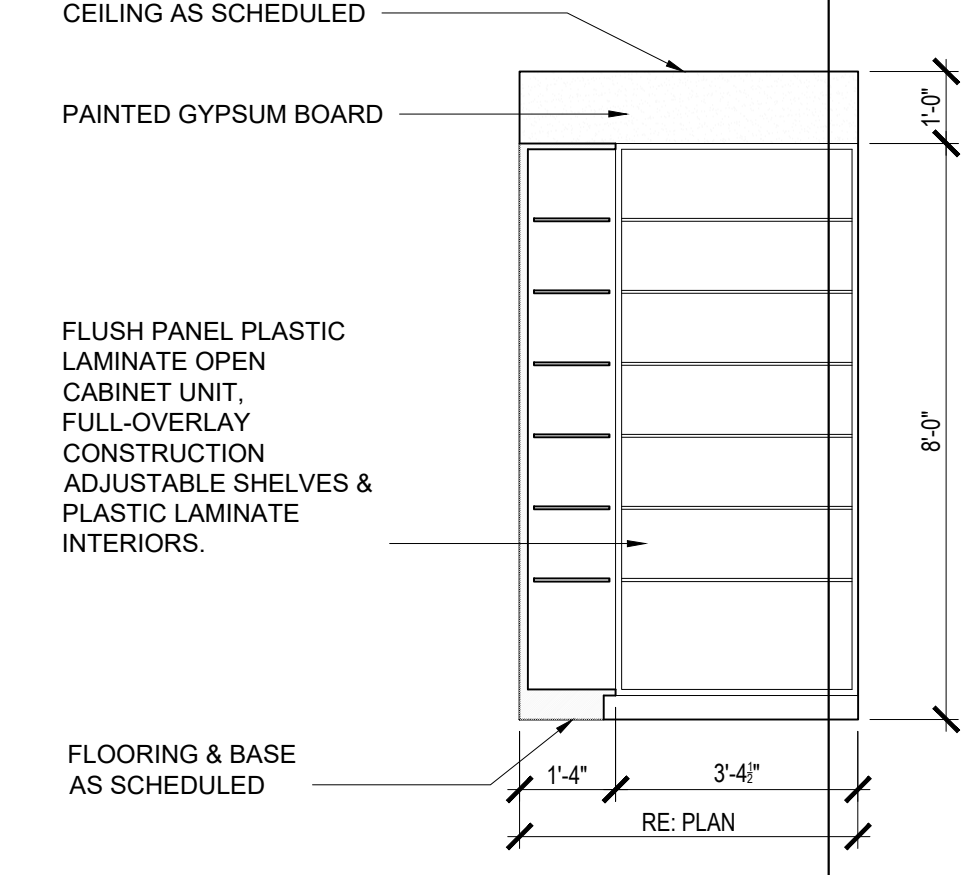
1101: IT OFFICE
 Scale: 3/8" = 1'-0"



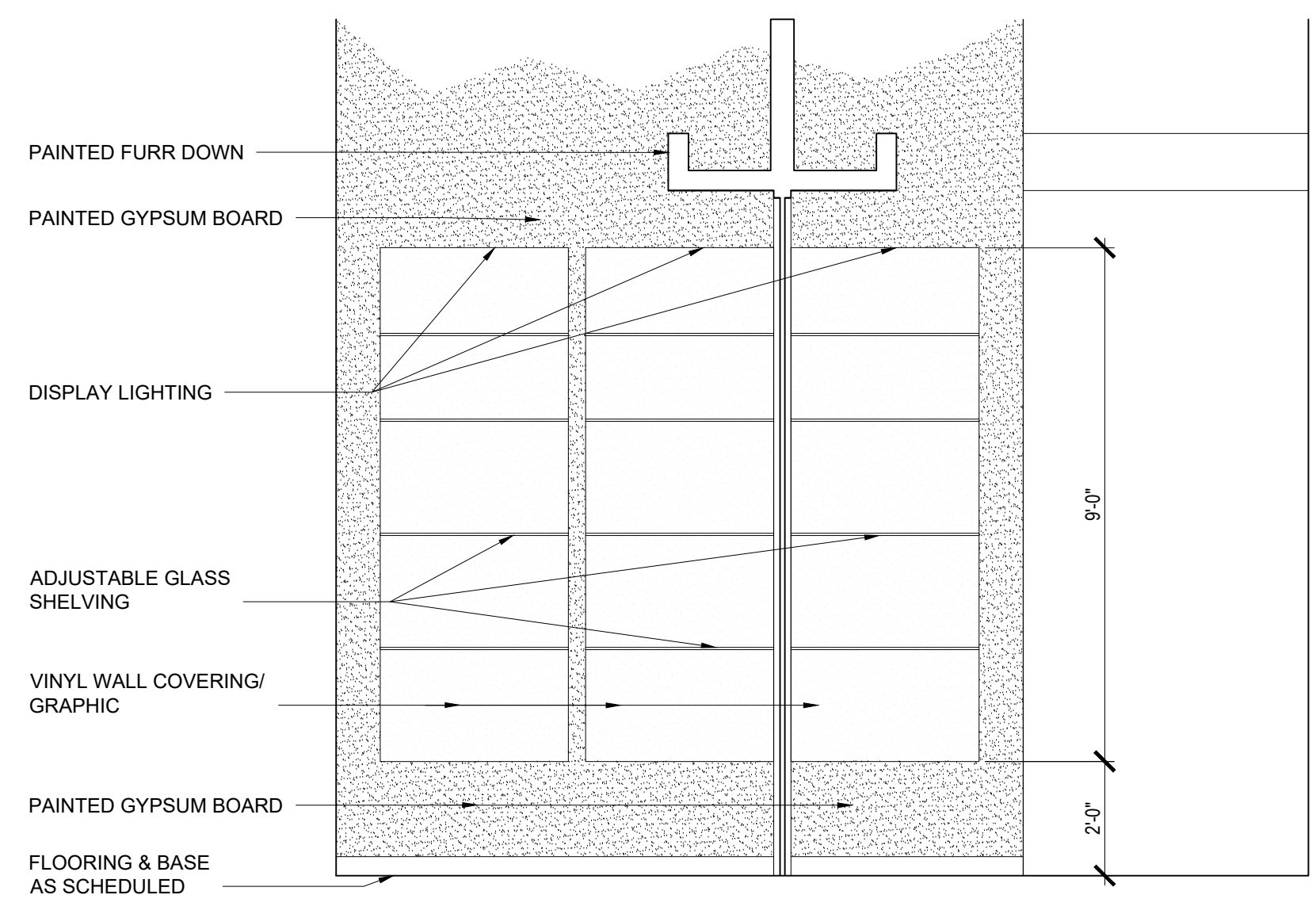
1101: IT OFFICE
 Scale: 3/8" = 1'-0"



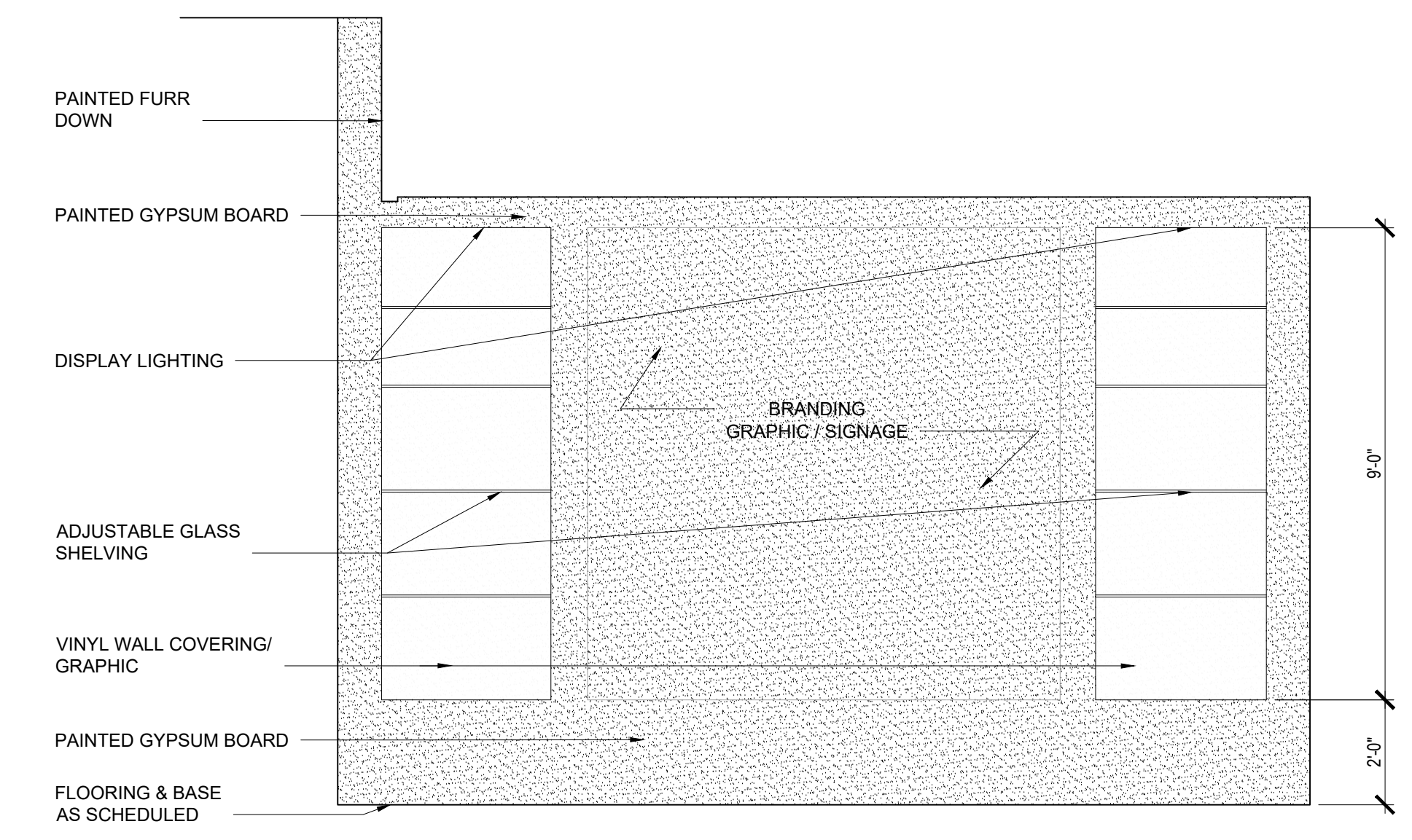
2435: SUPPLY
 Scale: 3/8" = 1'-0"



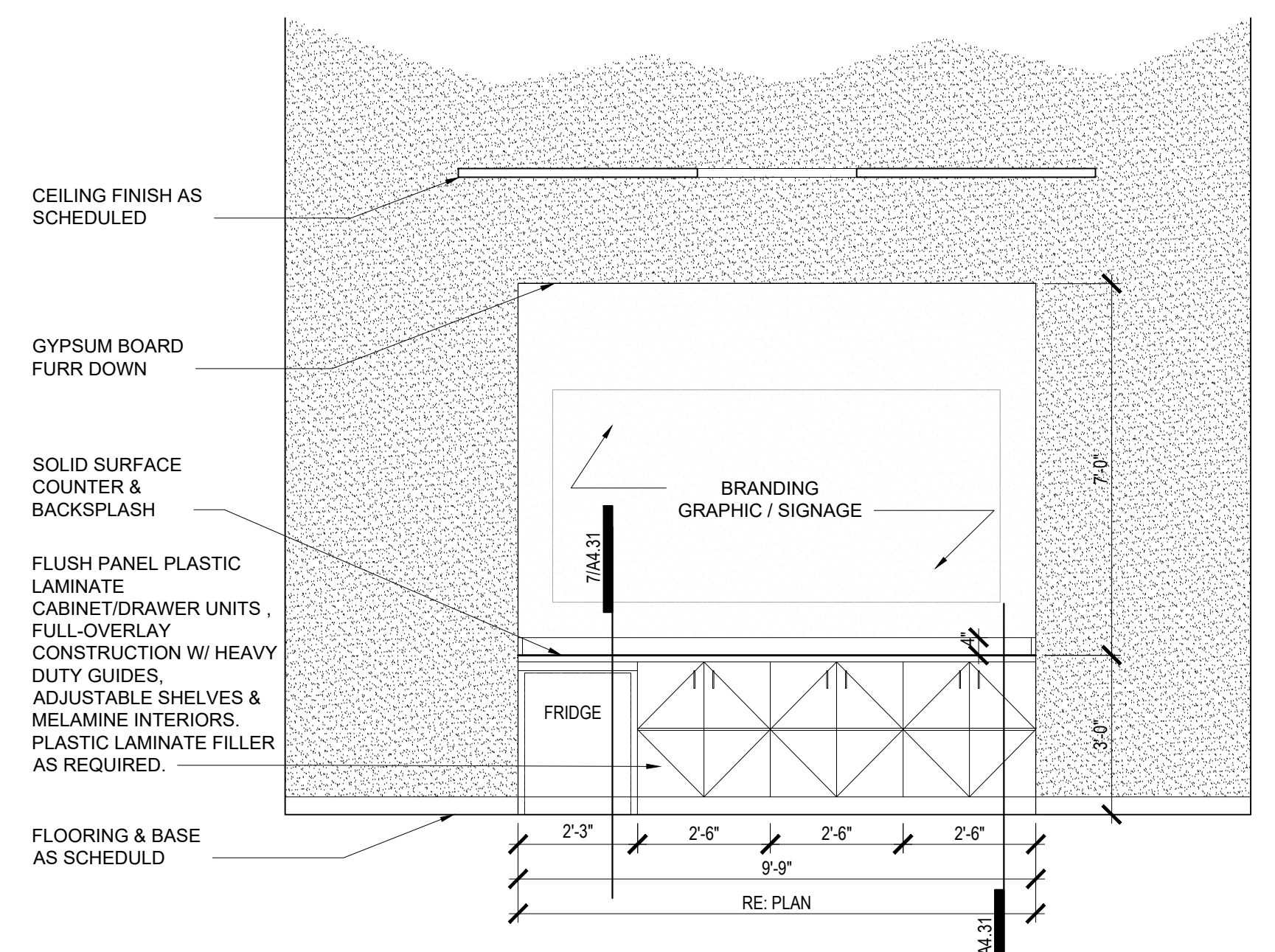
2435: SUPPLY
 Scale: 3/8" = 1'-0"



2103/2200: CORRIDOR/ LOBBY DISPLAY
 Scale: 3/8" = 1'-0"



2000: UPPER LOBBY TROPHY DISPLAY
 Scale: 3/8" = 1'-0"



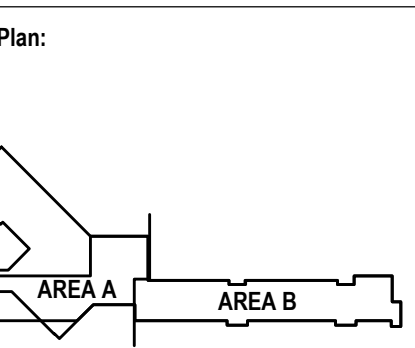
2101: MAIN BOARDROOM
 Scale: 3/8" = 1'-0"



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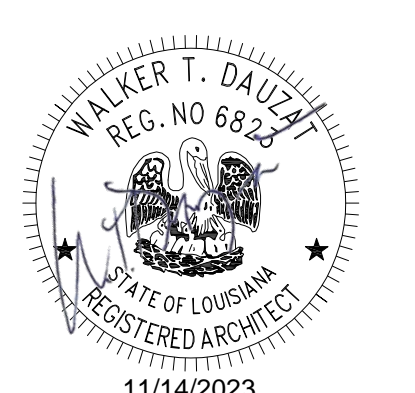
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Consultants:

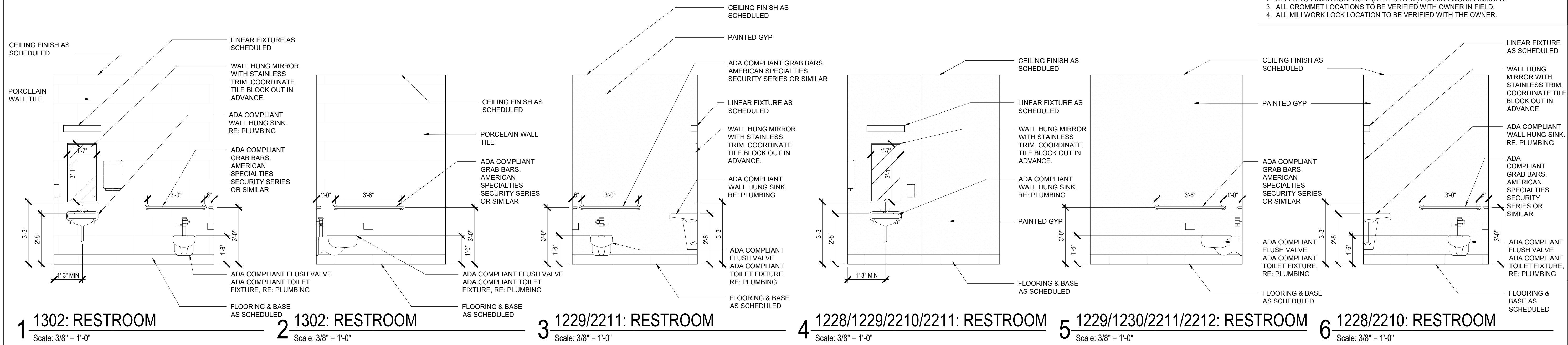
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 New Campus Corporate Headquarters
 13820 Airline Highway
 Baton Rouge, LA, 70817

Phase: Bid Documents
 Date: 10-26-23
 Revisions:



Professional Seal
 Scale: 1/4" = 1'-0"
 Sht Description: INTERIOR ELEVATIONS

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1 1302: RESTROOM
Scale: 3/8" = 1'-0"

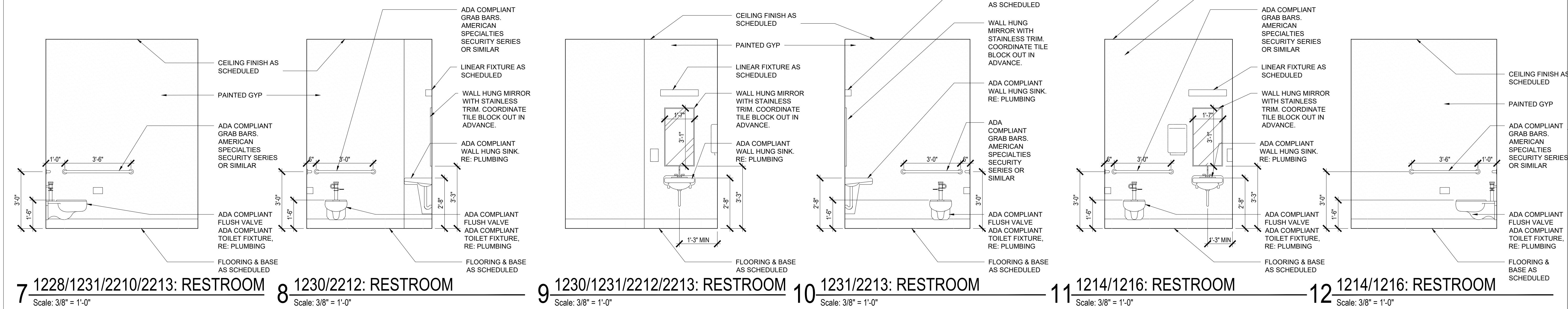
2 1302: RESTROOM
Scale: 3/8" = 1'-0"

3 1229/2211: RESTROOM
Scale: 3/8" = 1'-0"

4 1228/1229/2210/2211: RESTROOM
Scale: 3/8" = 1'-0"

5 1229/1230/2211/2212: RESTROOM
Scale: 3/8" = 1'-0"

6 1228/2210: RESTROOM
Scale: 3/8" = 1'-0"



7 1228/1231/2210/2213: RESTROOM
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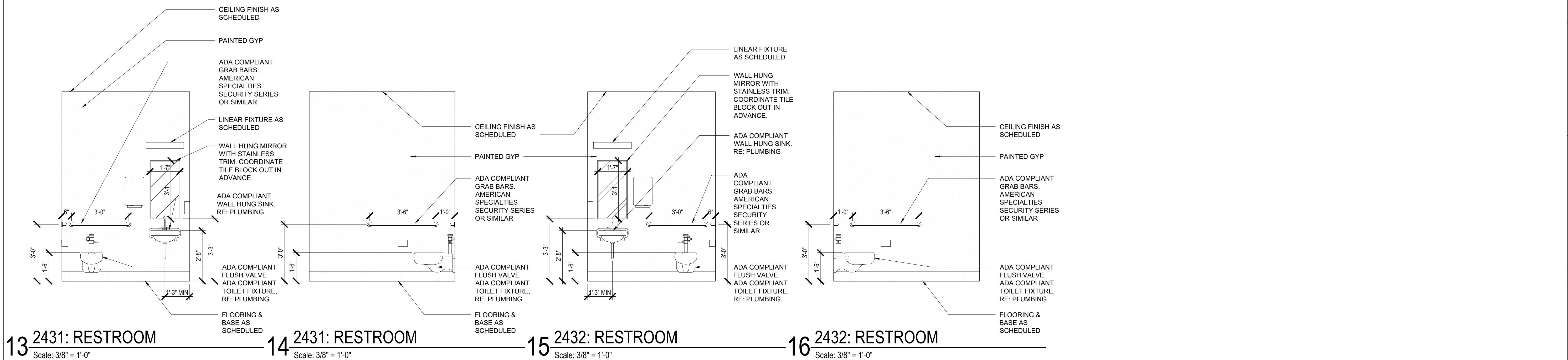
8 1230/2212: RESTROOM
Scale: 3/8" = 1'-0"

9 1230/1231/2212/2213: RESTROOM
Scale: 3/8" = 1'-0"

10 1231/2213: RESTROOM
Scale: 3/8" = 1'-0"

11 1214/1216: RESTROOM
Scale: 3/8" = 1'-0"

12 1214/1216: RESTROOM
Scale: 3/8" = 1'-0"

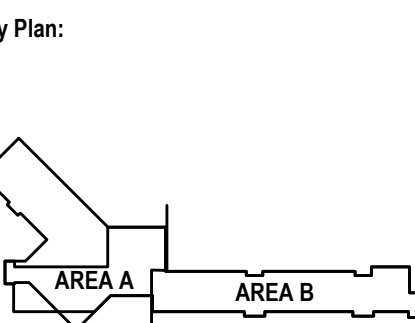


13 2431: RESTROOM
Scale: 3/8" = 1'-0"

14 2431: RESTROOM
Scale: 3/8" = 1'-0"

15 2432: RESTROOM
Scale: 3/8" = 1'-0"

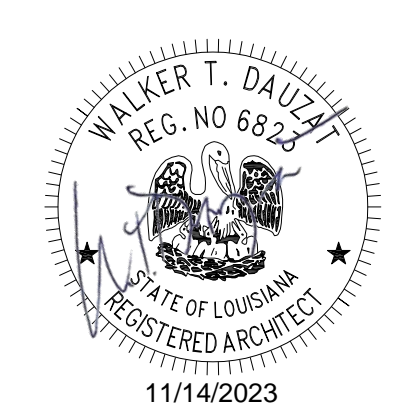
16 2432: RESTROOM
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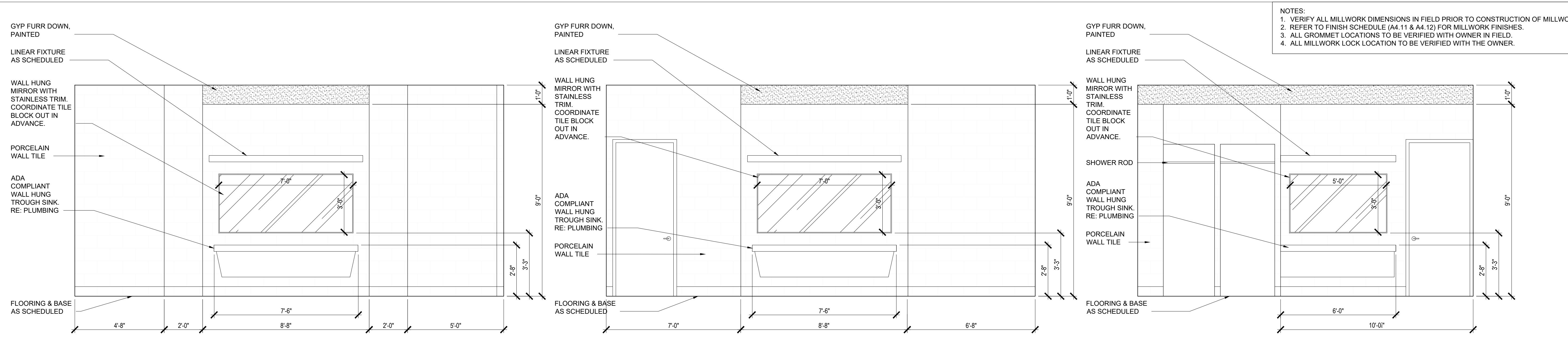
Consultants:

The Newtron Group
 New Campus Corporate Headquarters
 13820 Airline Highway
 Baton Rouge, LA, 70817

Phase: Construction Documents
 Date: 08-02-2022
 Revisions:

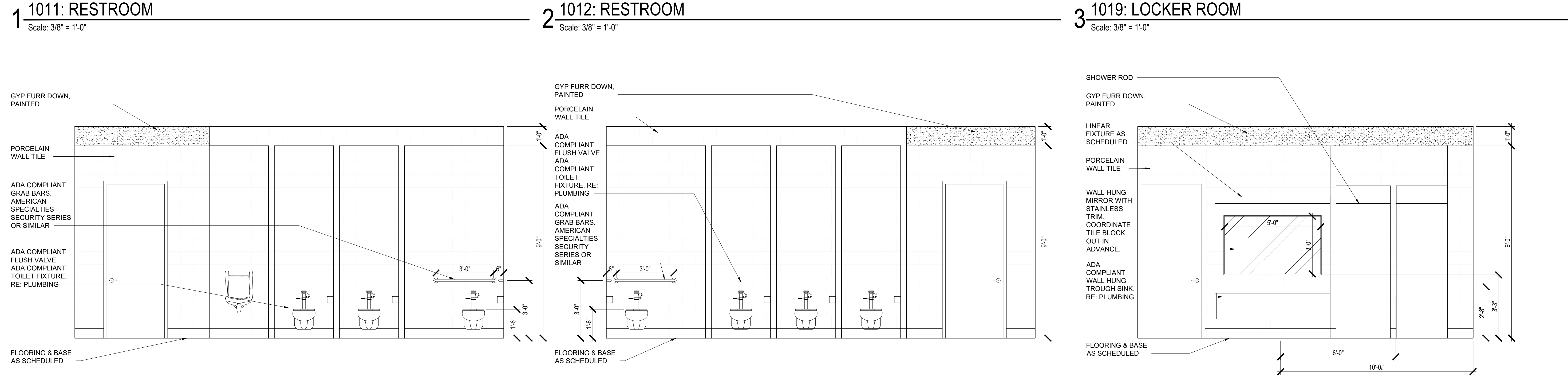
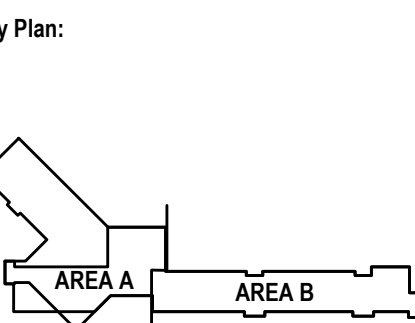


Professional Seal
 Scale: 1/4" = 1'-0"
 Sht Description:
INTERIOR ELEVATIONS



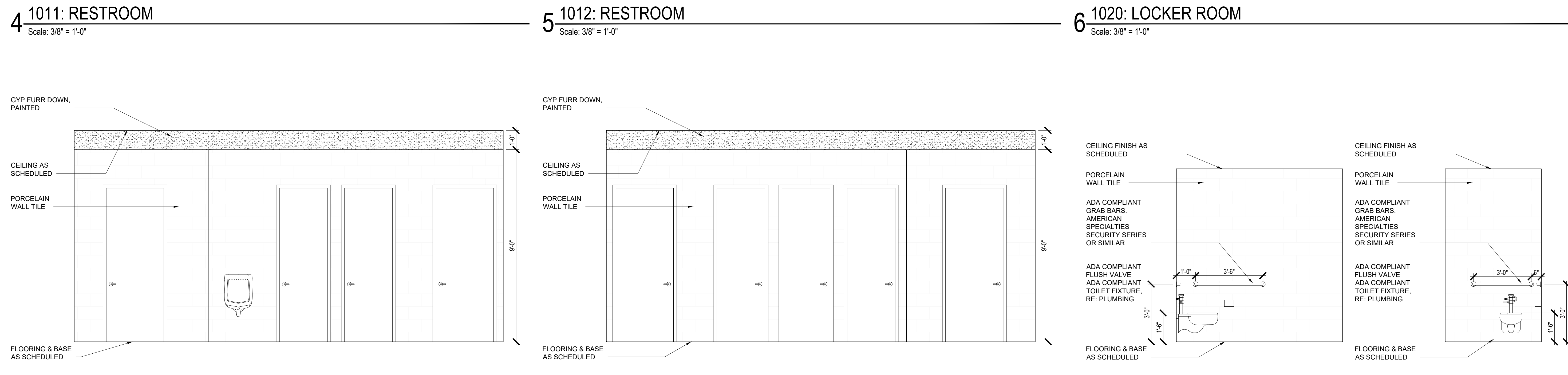
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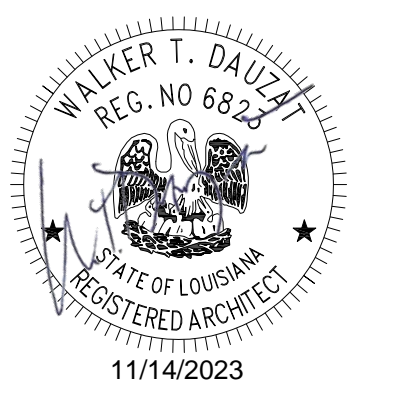


Consultants:

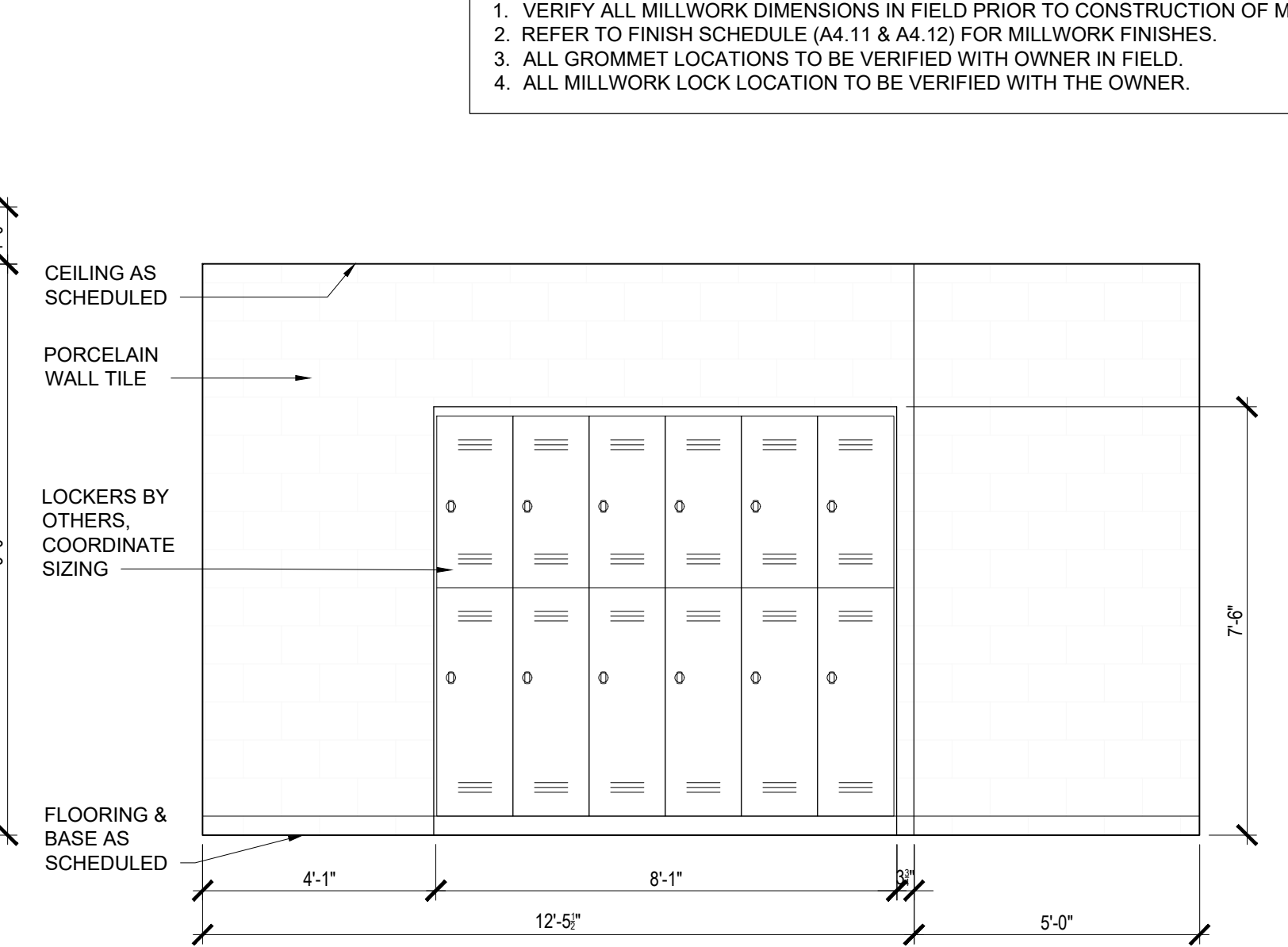
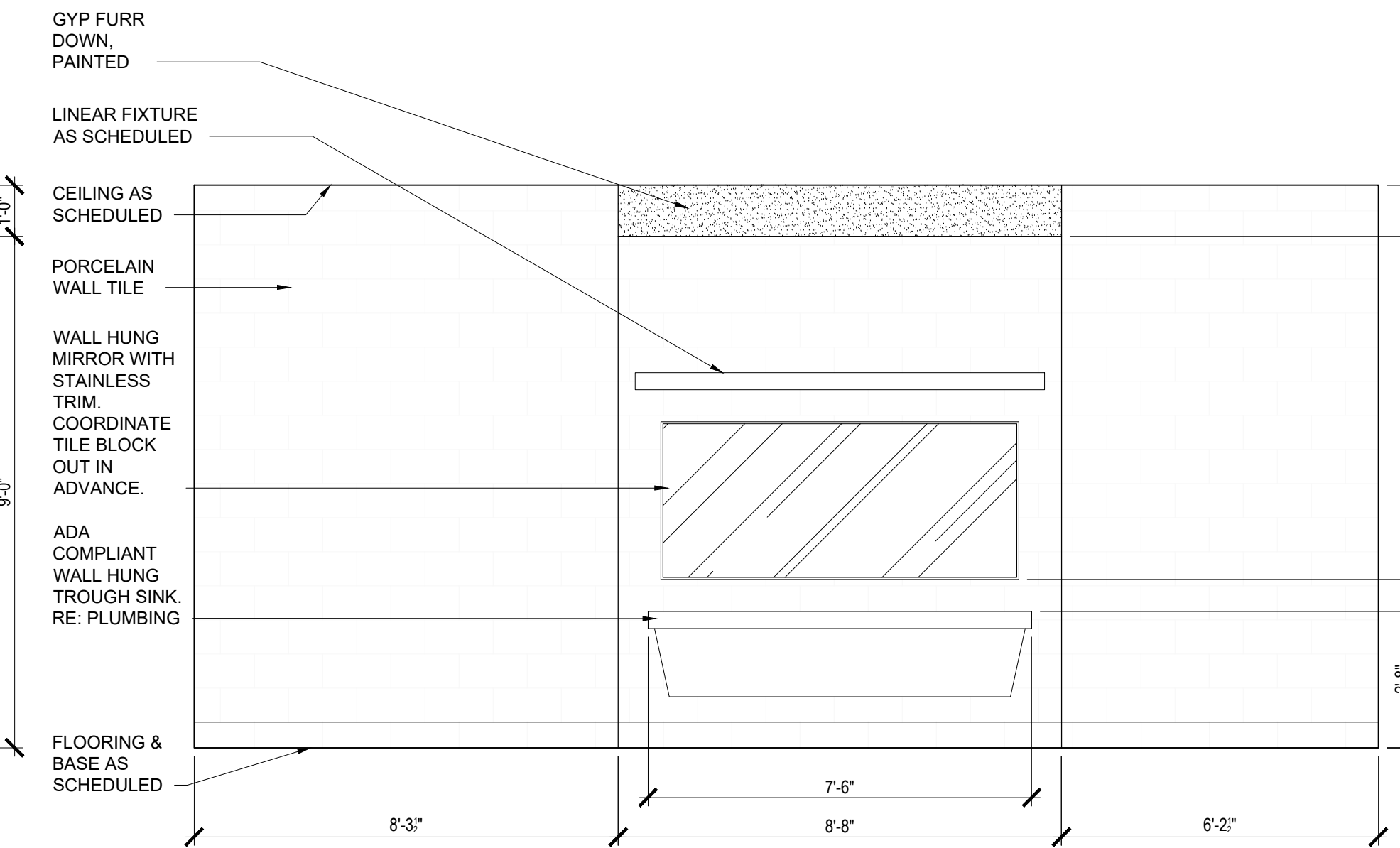
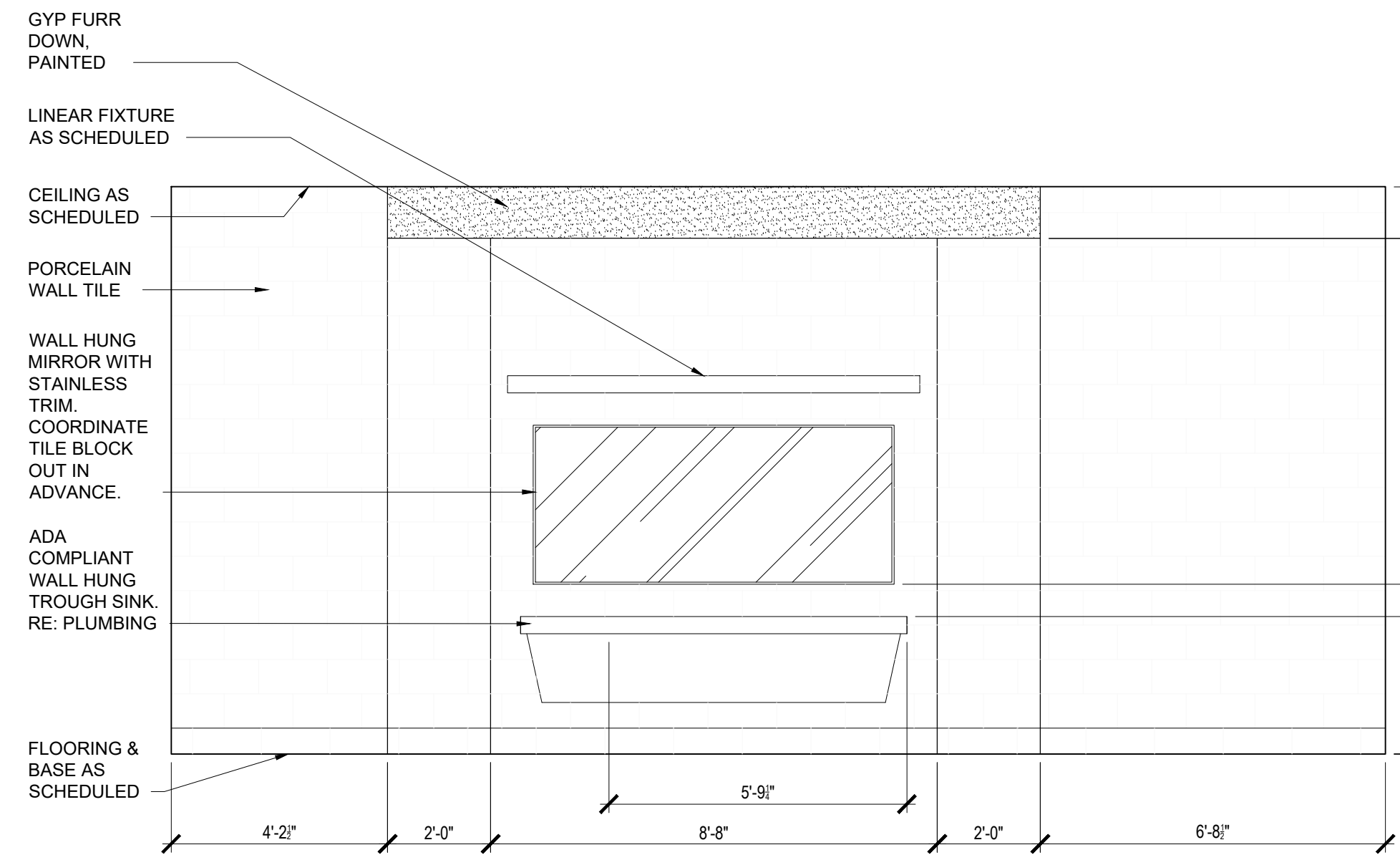
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 Baton Rouge, LA 70817



Phase: Bid Documents
 Date: 10-26-23
 Revisions:



Professional Seal
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 Sht Description:
INTERIOR ELEVATIONS

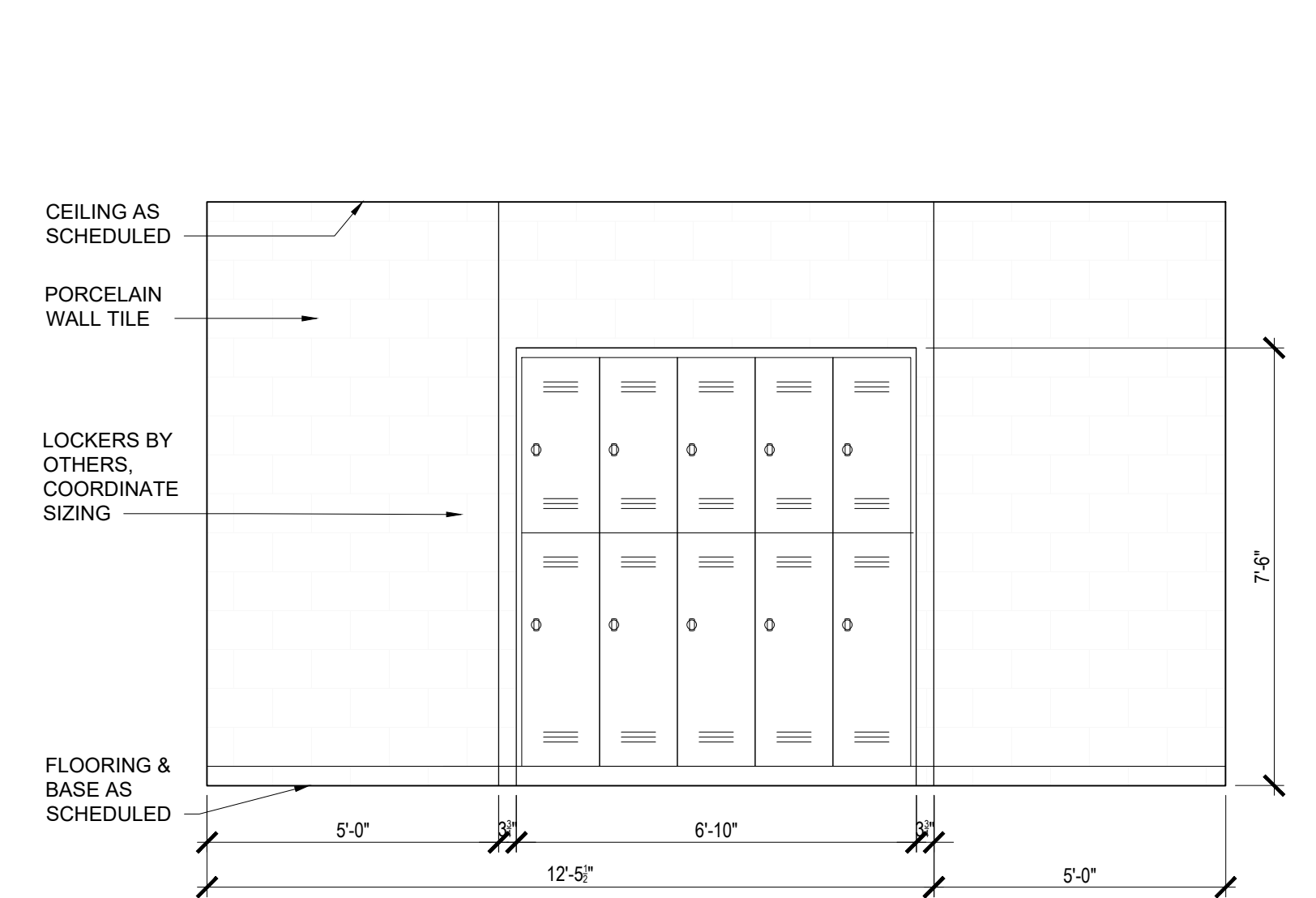
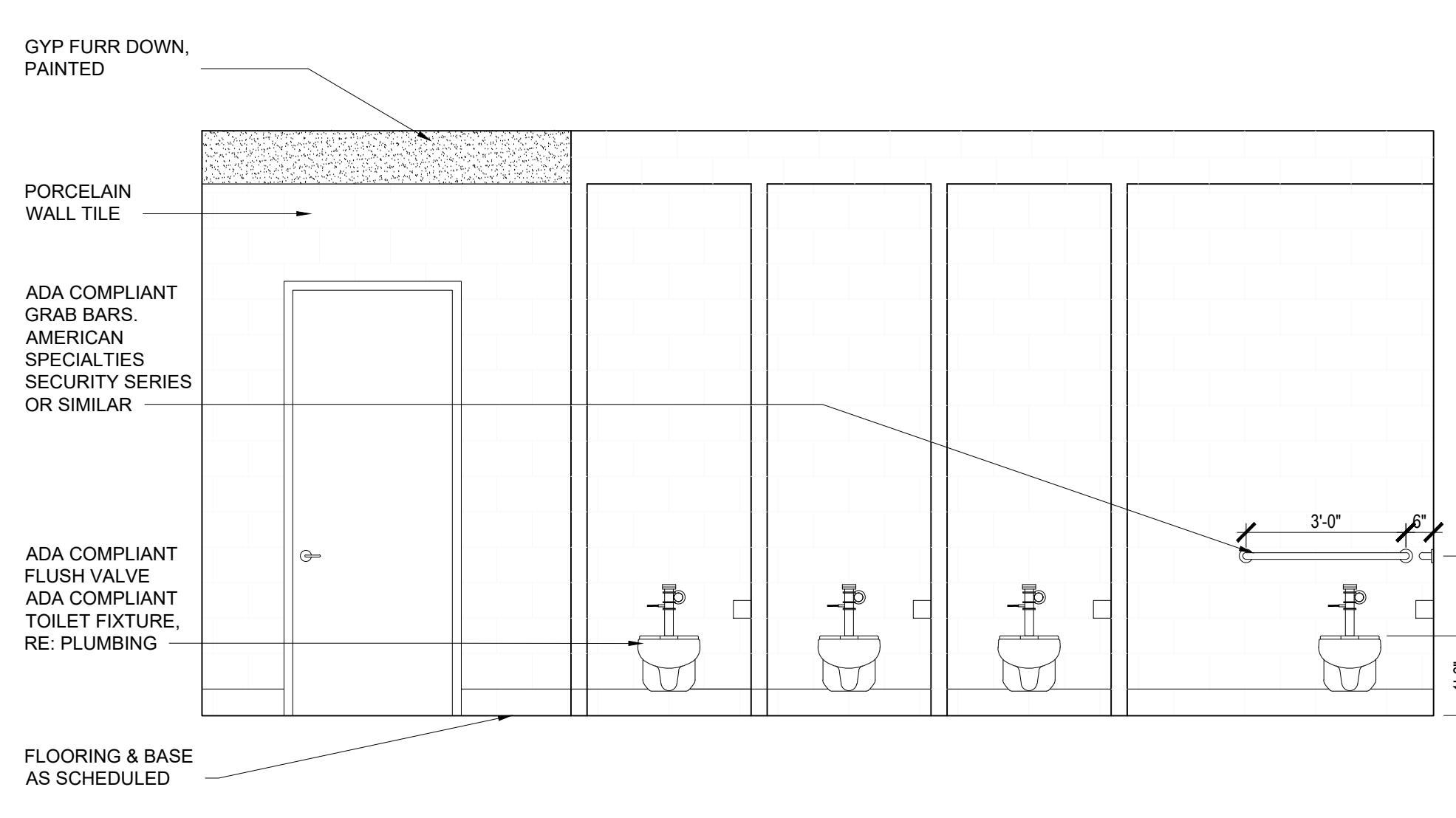
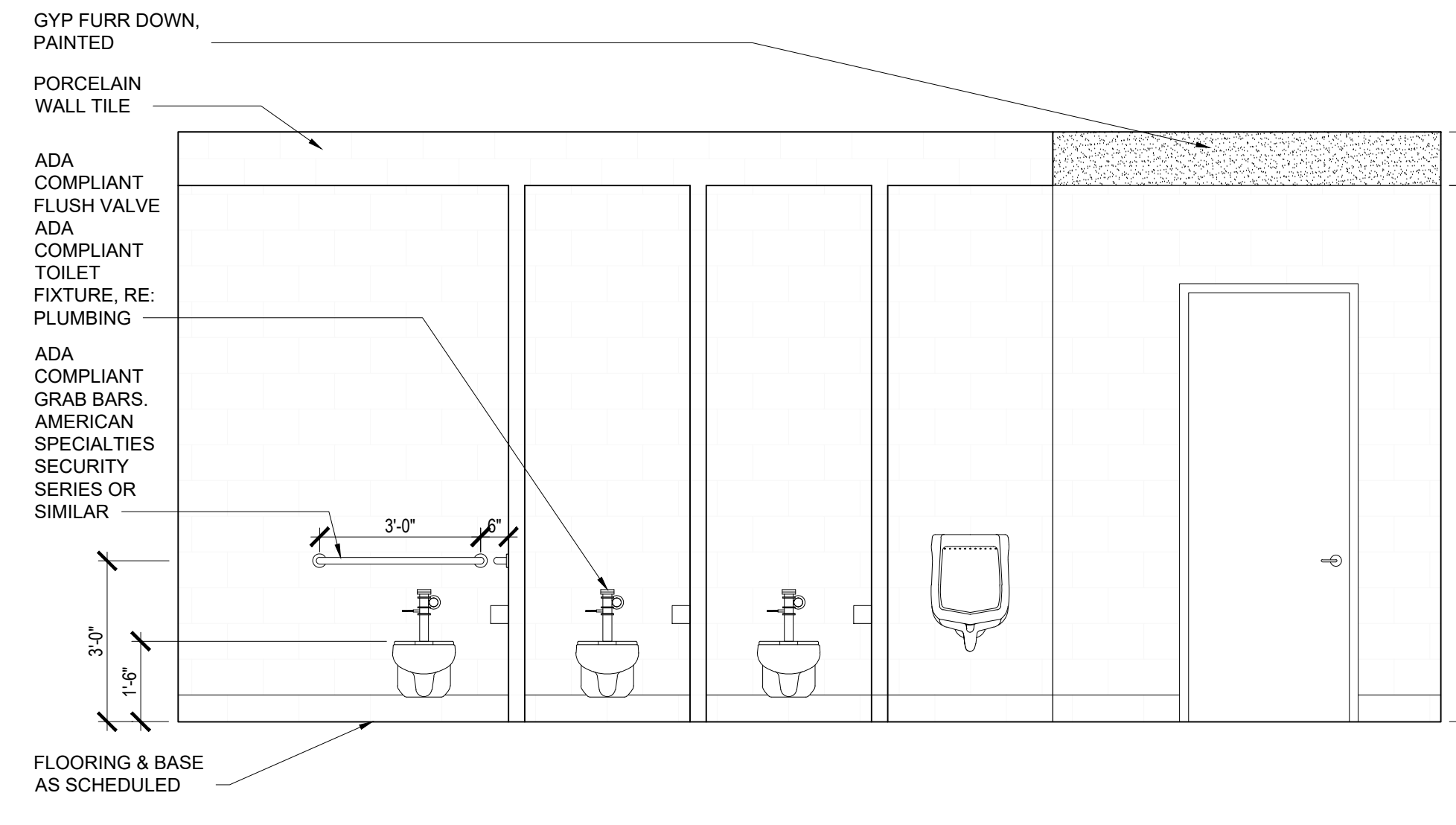


NOTES:
 1. VERIFY ALL MILLWORK DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION OF MILLWORK.
 2. REFER TO FINISH SCHEDULE (A4.11 & A4.12) FOR MILLWORK FINISHES.
 3. ALL GROMMET LOCATIONS TO BE VERIFIED WITH OWNER IN FIELD.
 4. ALL MILLWORK LOCK LOCATION TO BE VERIFIED WITH THE OWNER.

1 2107: RESTROOM
 Scale: 3/8" = 1'-0"

2 2106: RESTROOM
 Scale: 3/8" = 1'-0"

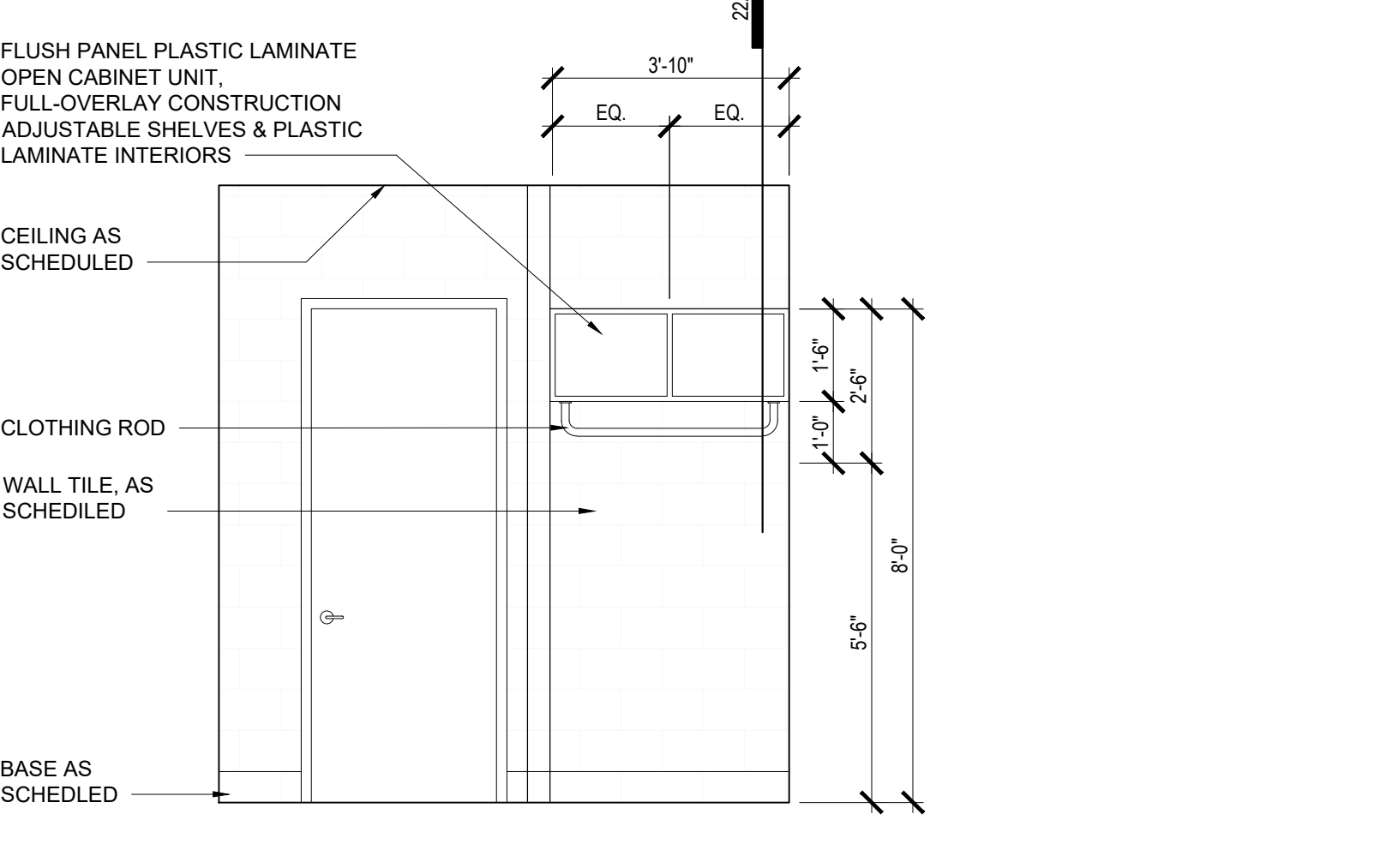
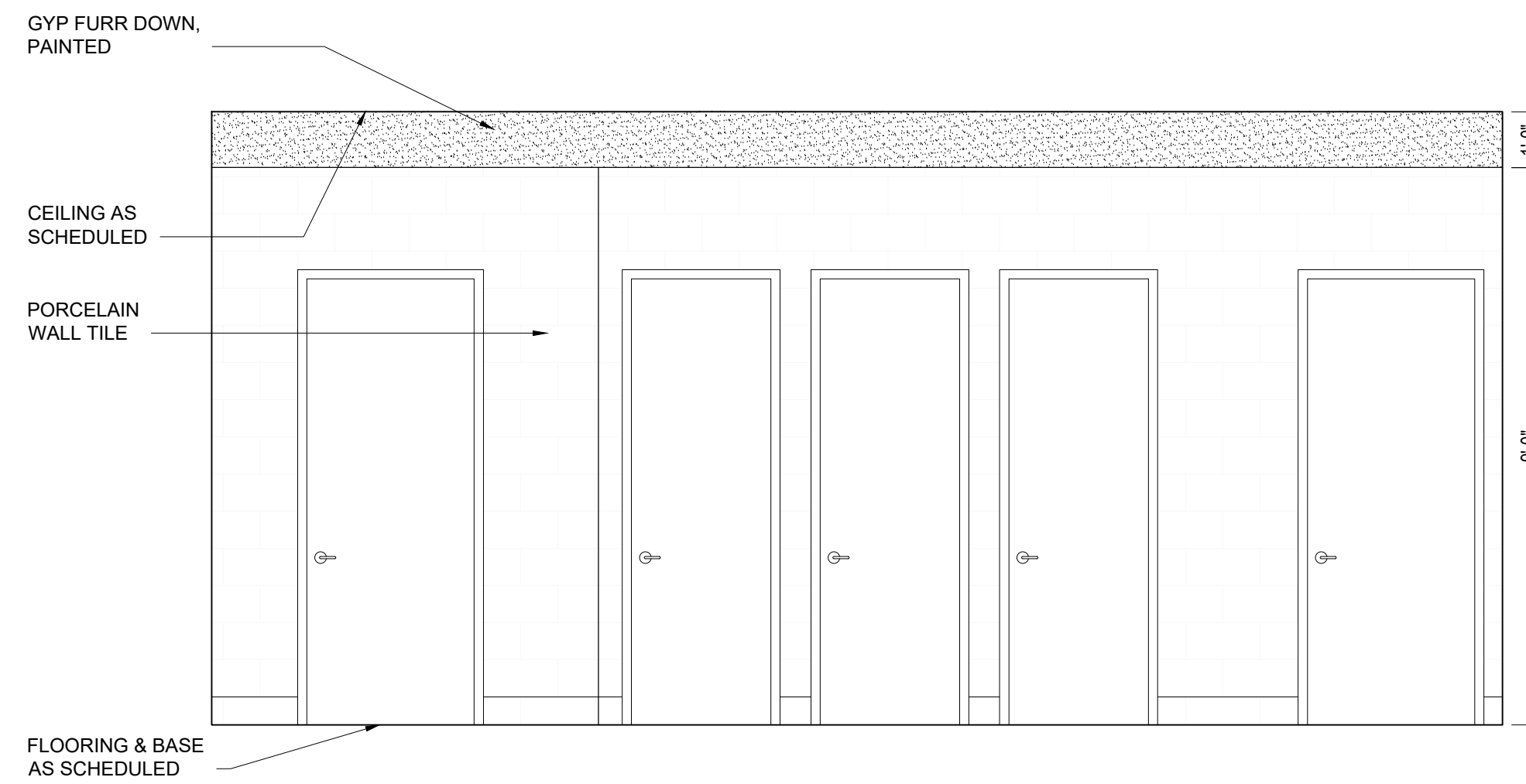
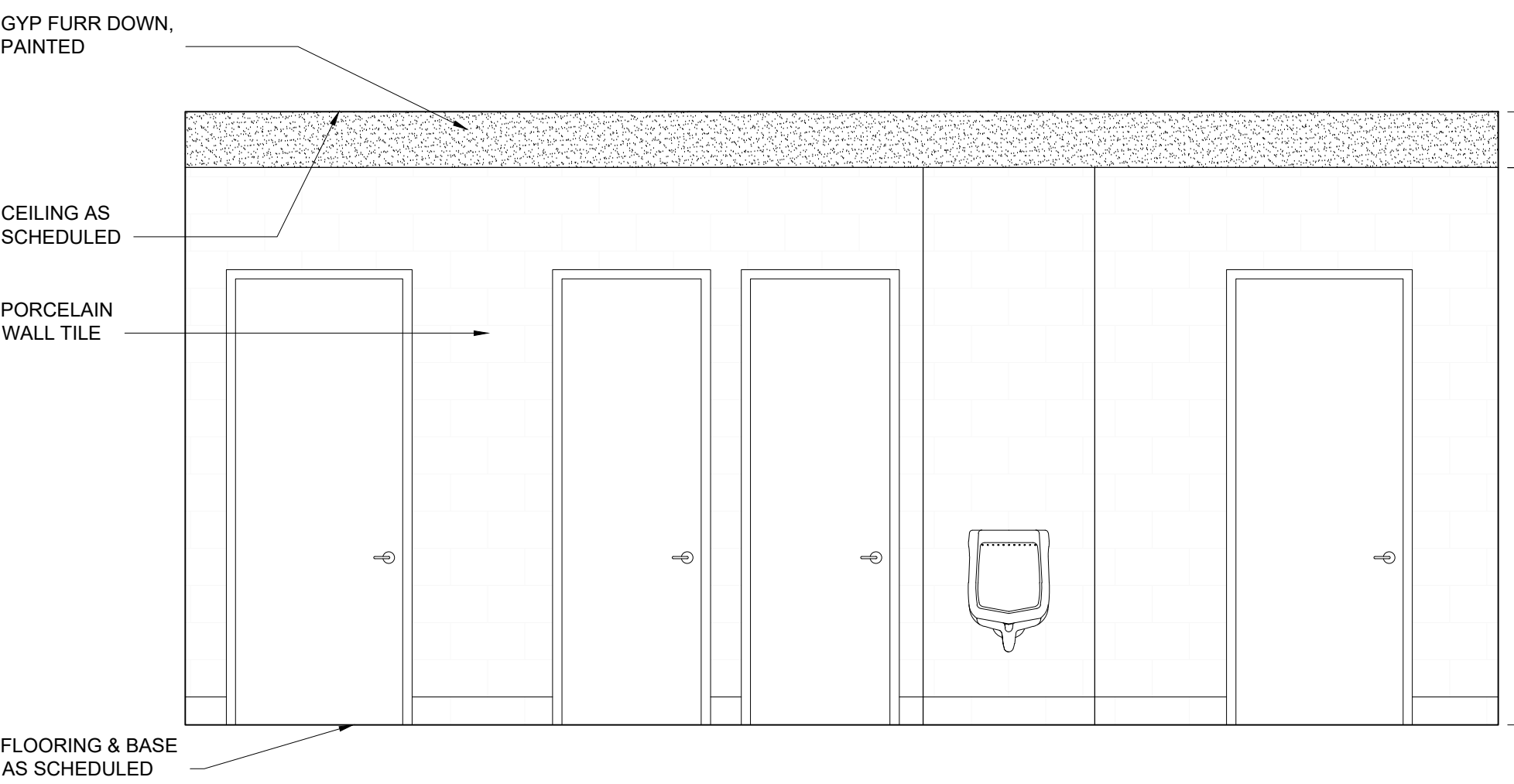
3 1020: LOCKER ROOM
 Scale: 3/8" = 1'-0"



4 2107: RESTROOM
 Scale: 3/8" = 1'-0"

5 2106: RESTROOM
 Scale: 3/8" = 1'-0"

6 1015: LOCKER ROOM
 Scale: 3/8" = 1'-0"



7 2107: RESTROOM
 Scale: 3/8" = 1'-0"

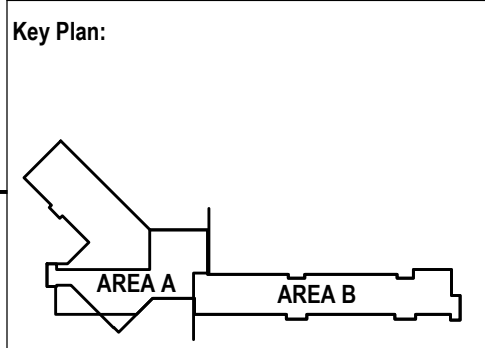
8 2106: RESTROOM
 Scale: 3/8" = 1'-0"

9 1019/1020: LOCKER ROOM
 Scale: 3/8" = 1'-0"



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 New Campus Corporate Headquarters
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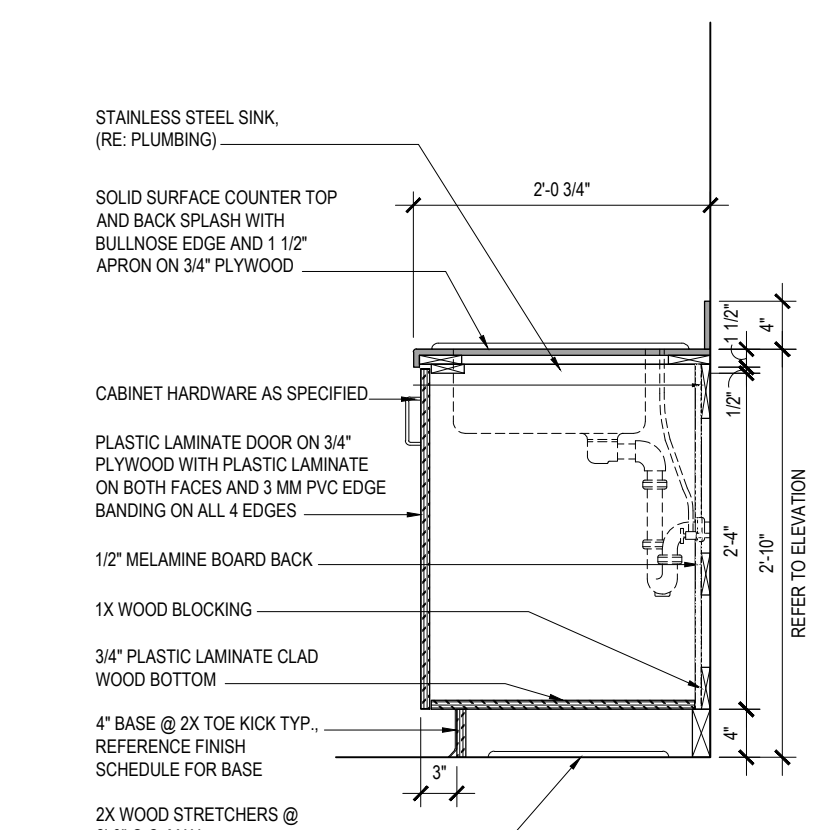
Phase: Bid Documents
 Date: 10-26-23
 Revisions:



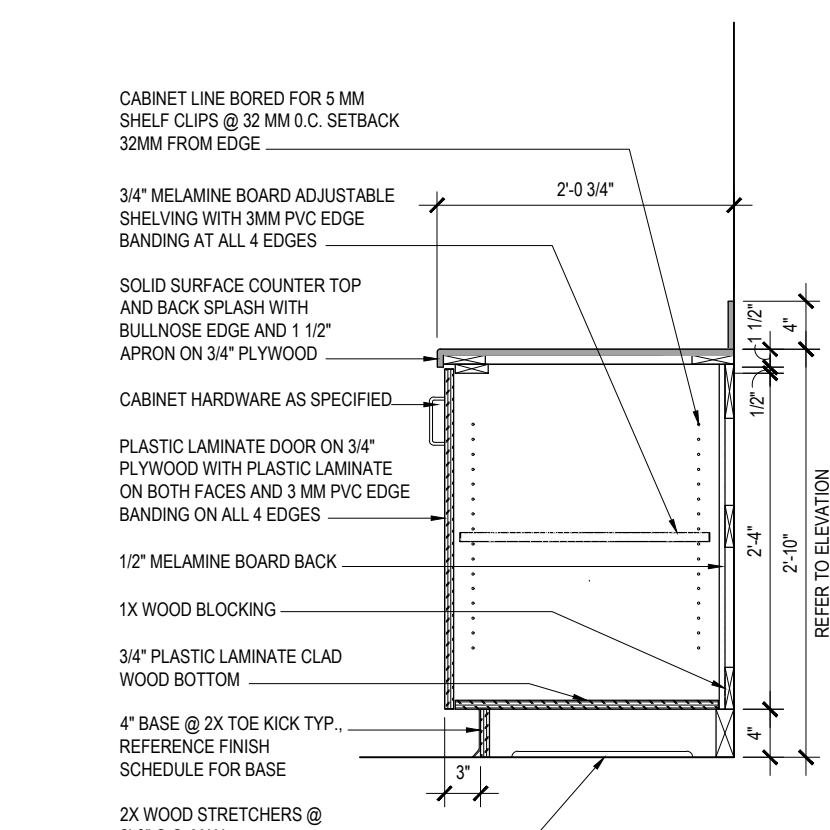
Professional Seal
 Scale: 1/4" = 1'-0"
 Sht Description:
INTERIOR ELEVATIONS

A4.28

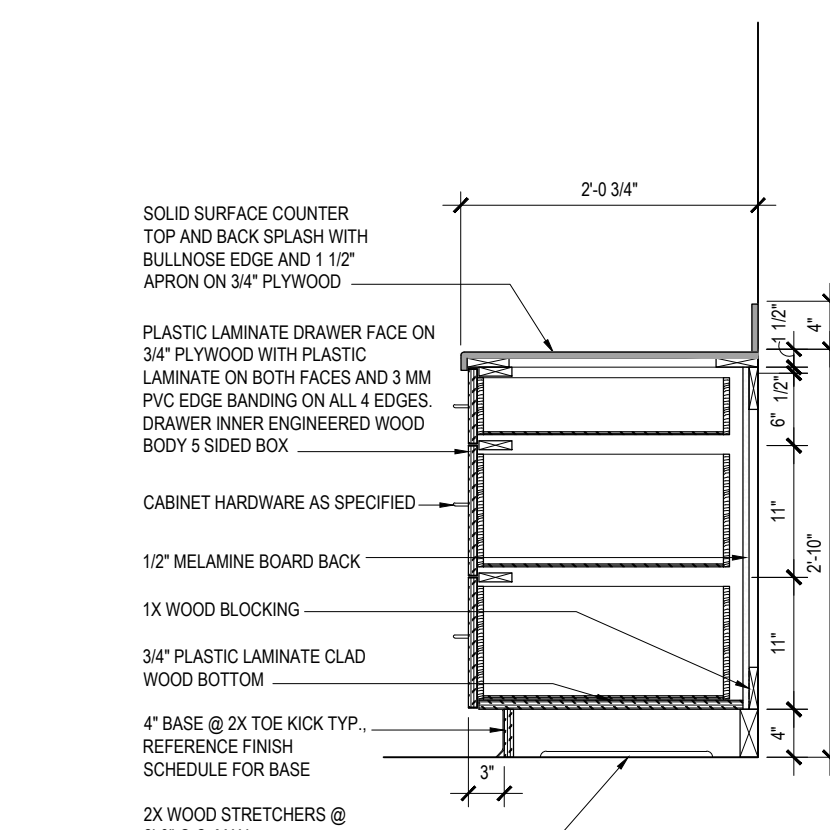
North



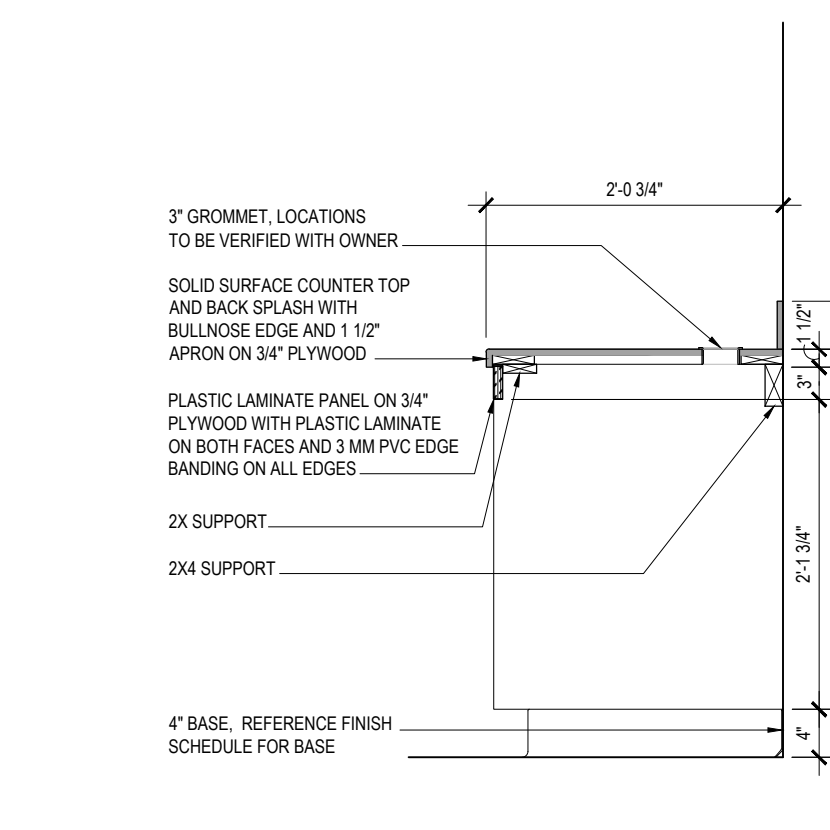
1 34" Sink Cabinet Section
Scale: 3/4" = 1'-0"



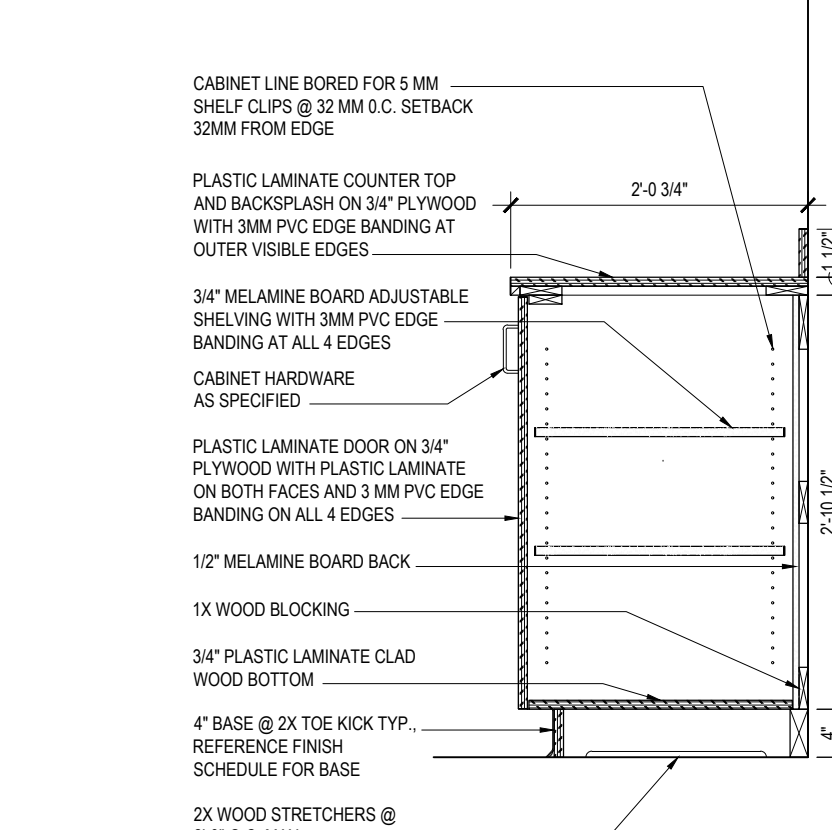
2 34" Base Cabinet Section
Scale: 3/4" = 1'-0"



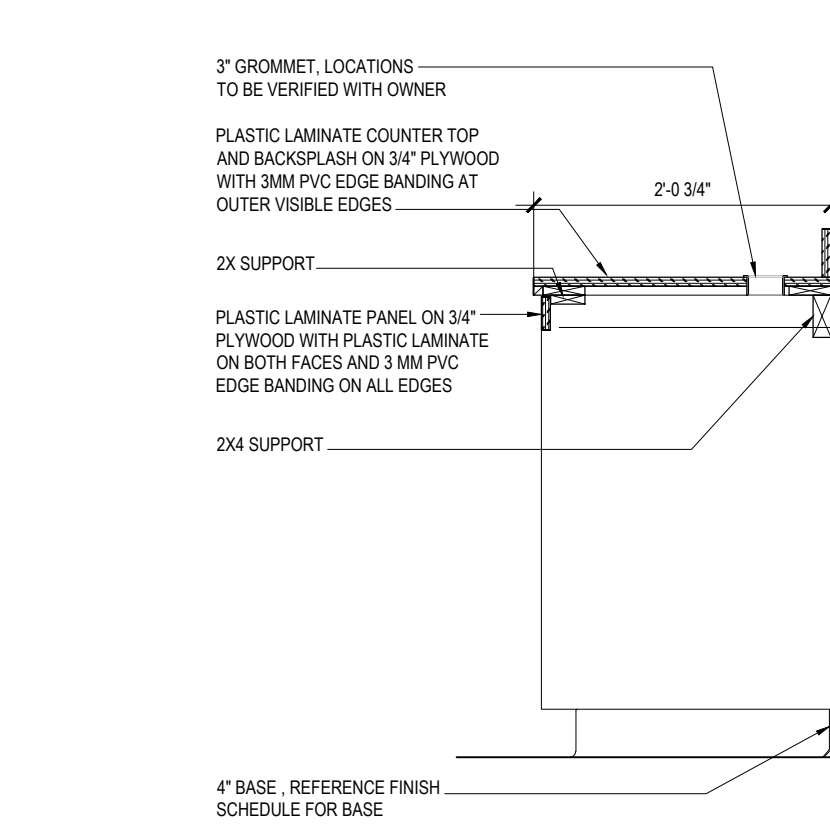
3 34" Base Cabinet Section
Scale: 3/4" = 1'-0"



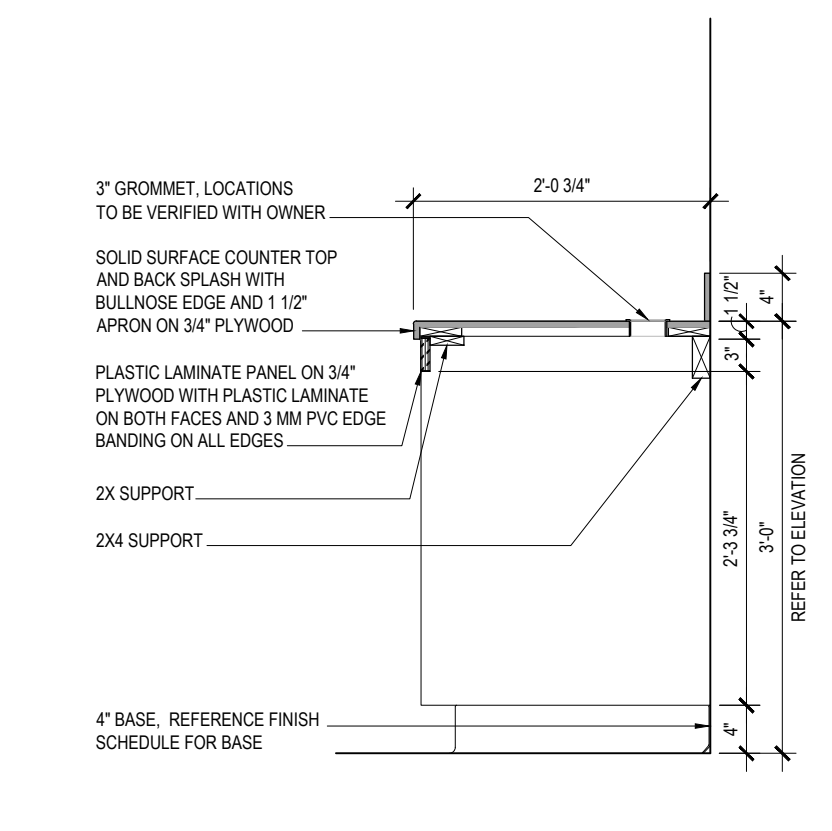
4 34" Open Cabinet Section
Scale: 3/4" = 1'-0"



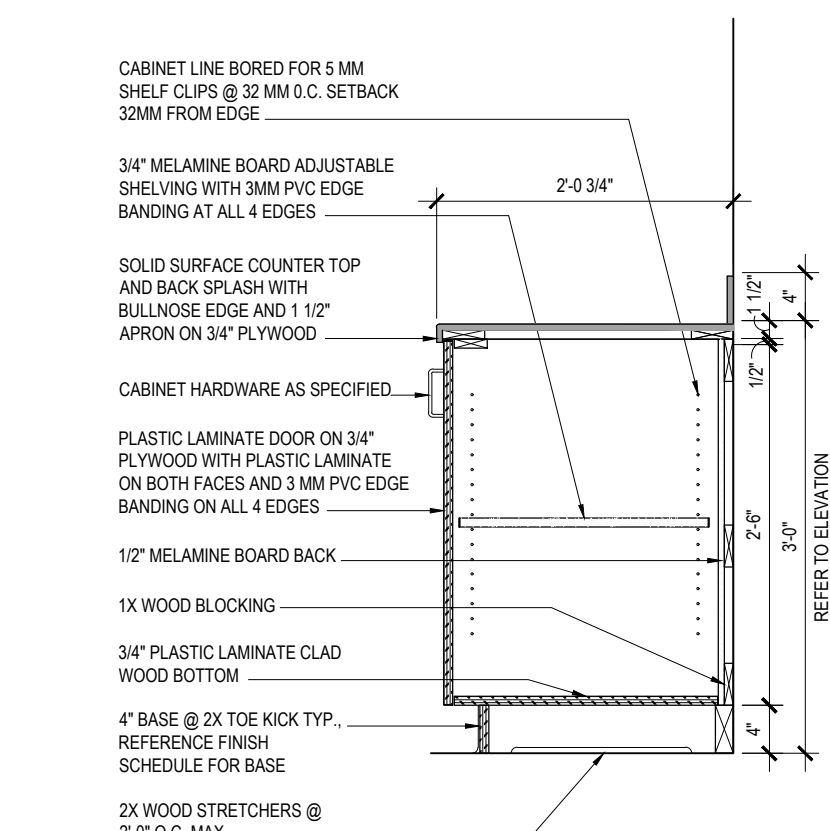
5 40" Base Cabinet Section
Scale: 3/4" = 1'-0"



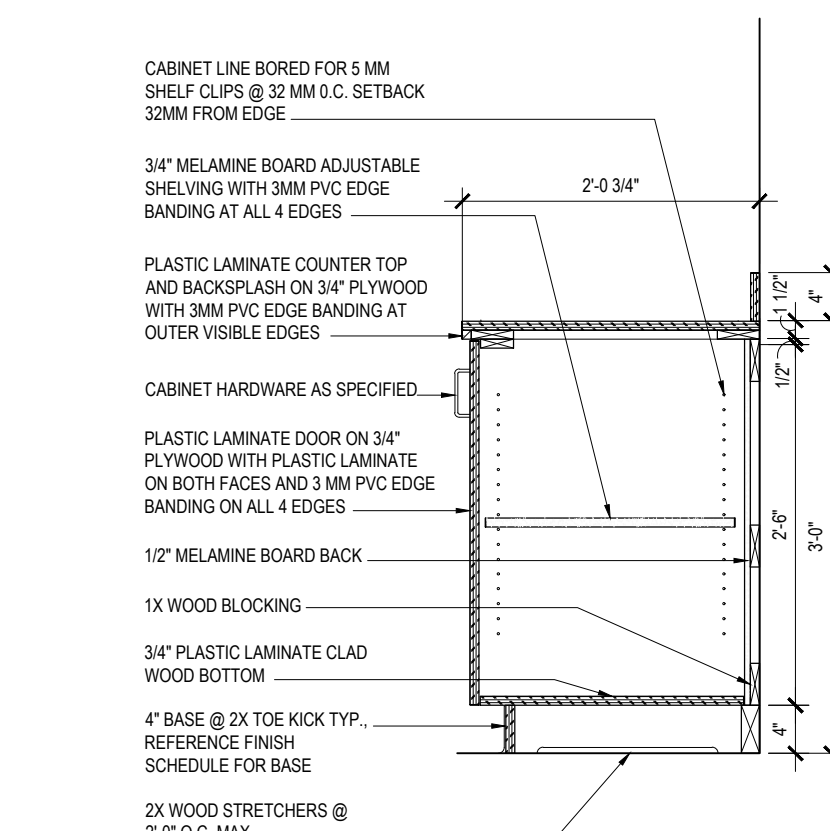
6 40" Writing Counter Section
Scale: 3/4" = 1'-0"



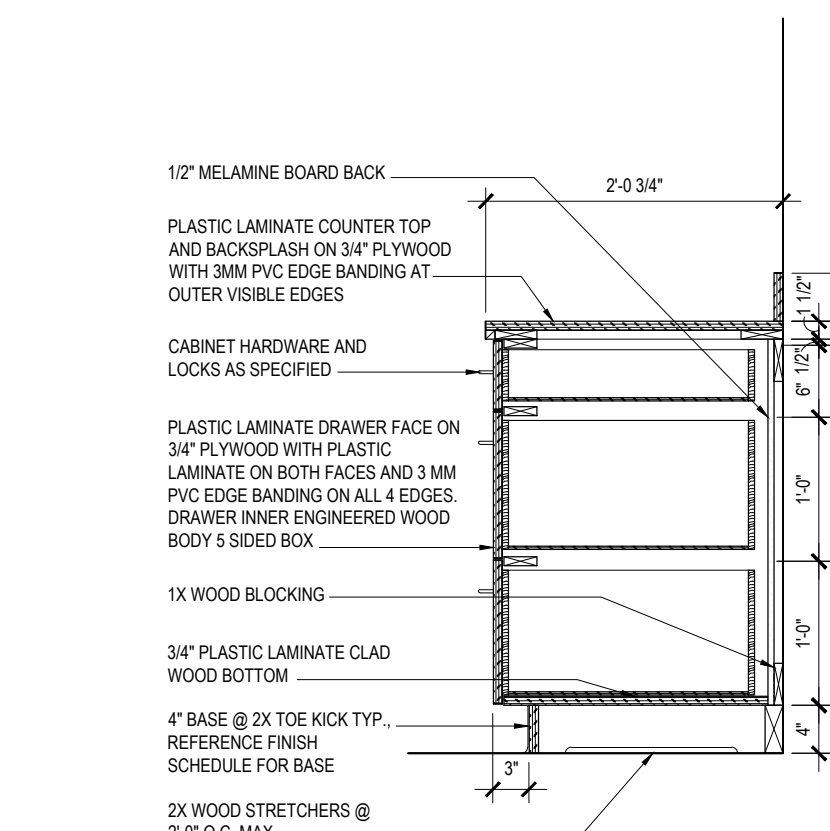
7 36" Open Cabinet Section
Scale: 3/4" = 1'-0"



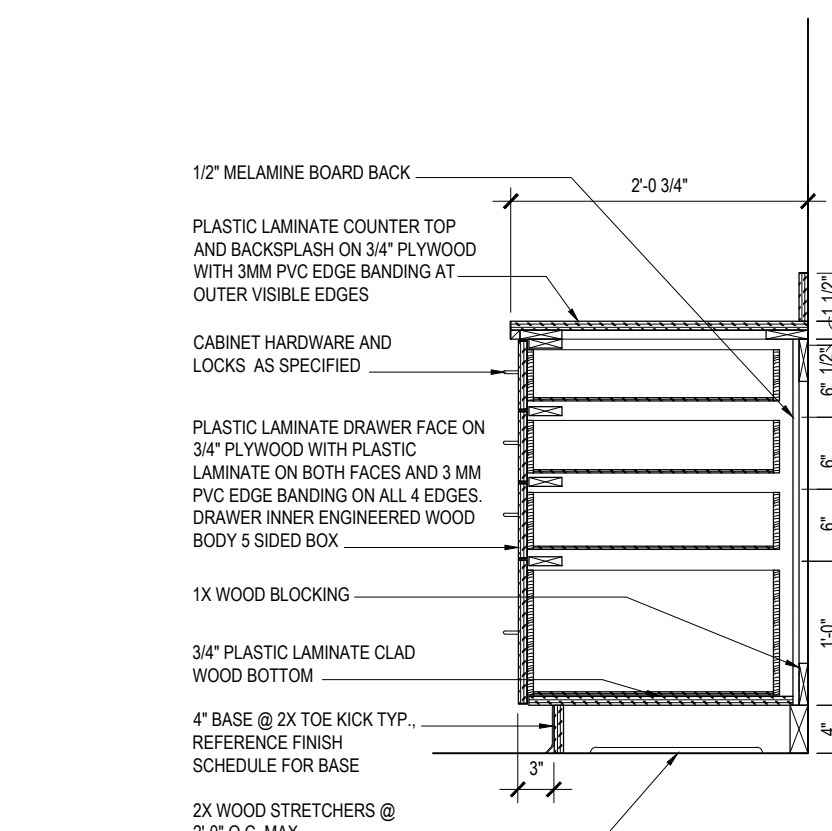
8 36" Base Cabinet Section
Scale: 3/4" = 1'-0"



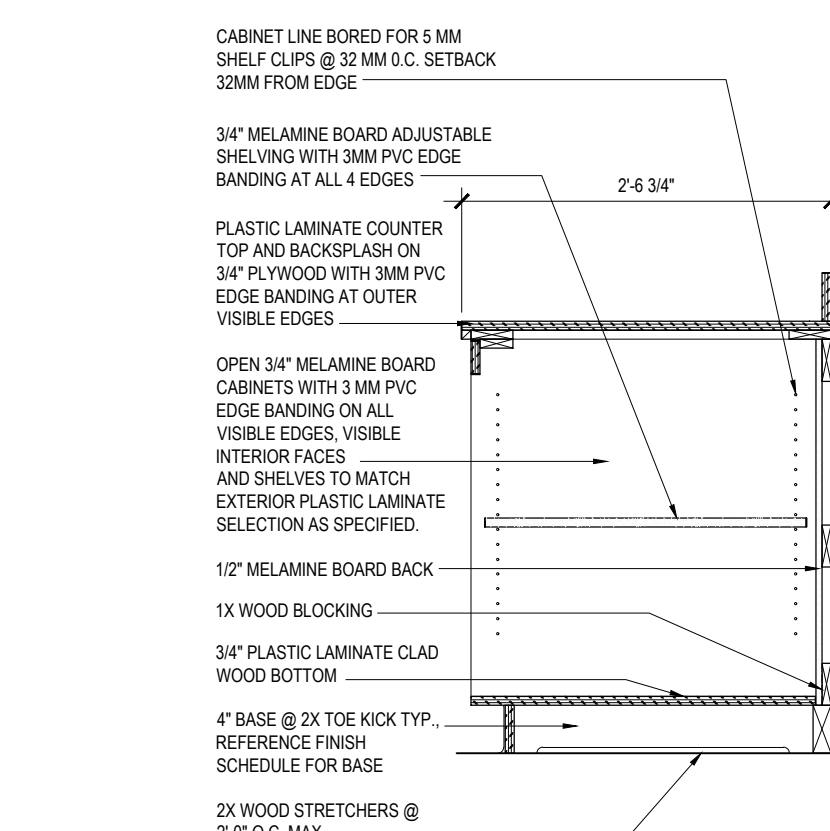
9 36" Base Cabinet Section
Scale: 3/4" = 1'-0"



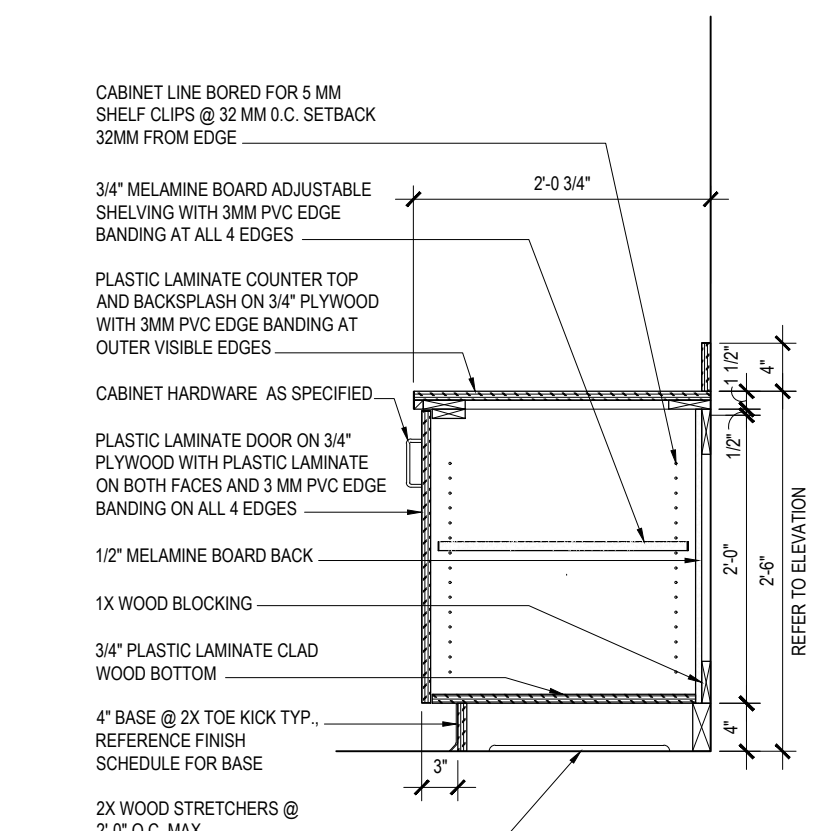
10 36" Base Cabinet Section
Scale: 3/4" = 1'-0"



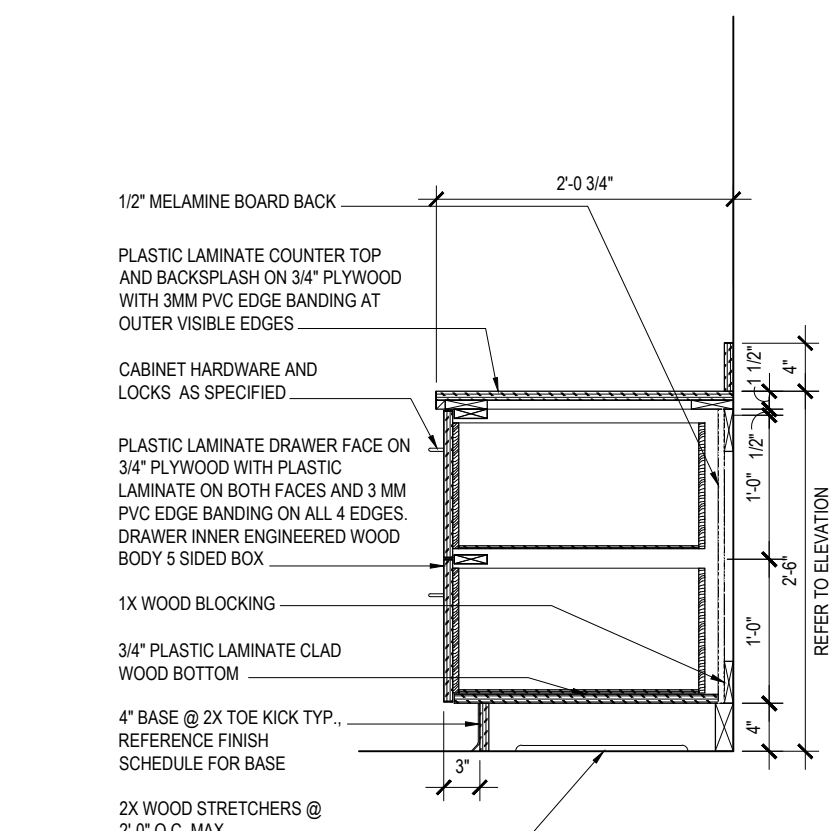
11 36" Base Cabinet Section
Scale: 3/4" = 1'-0"



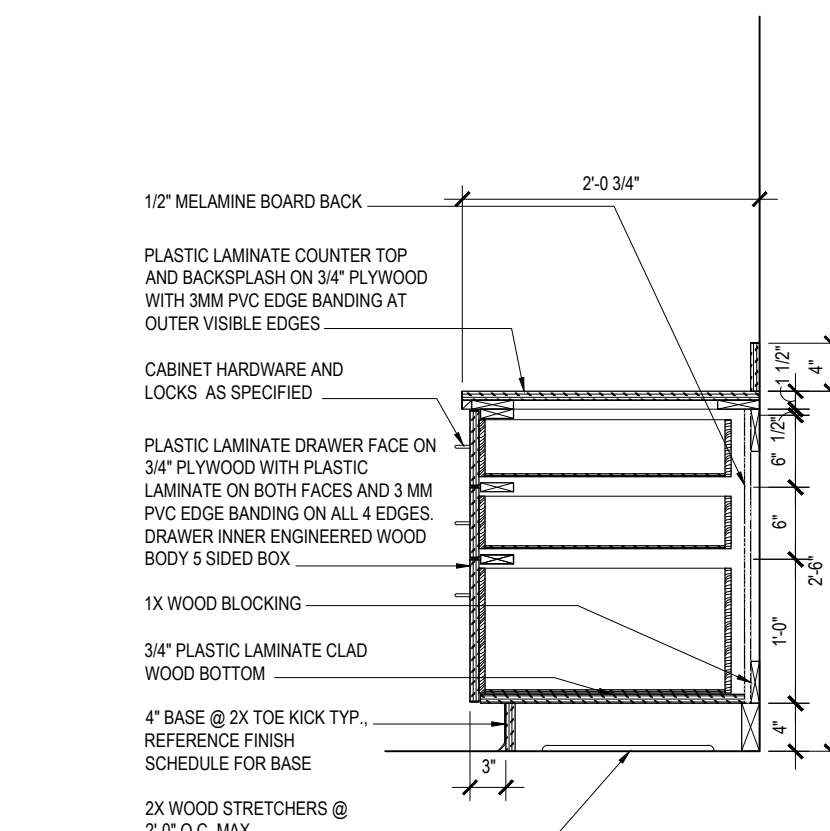
12 36" Base Cabinet Section
Scale: 3/4" = 1'-0"



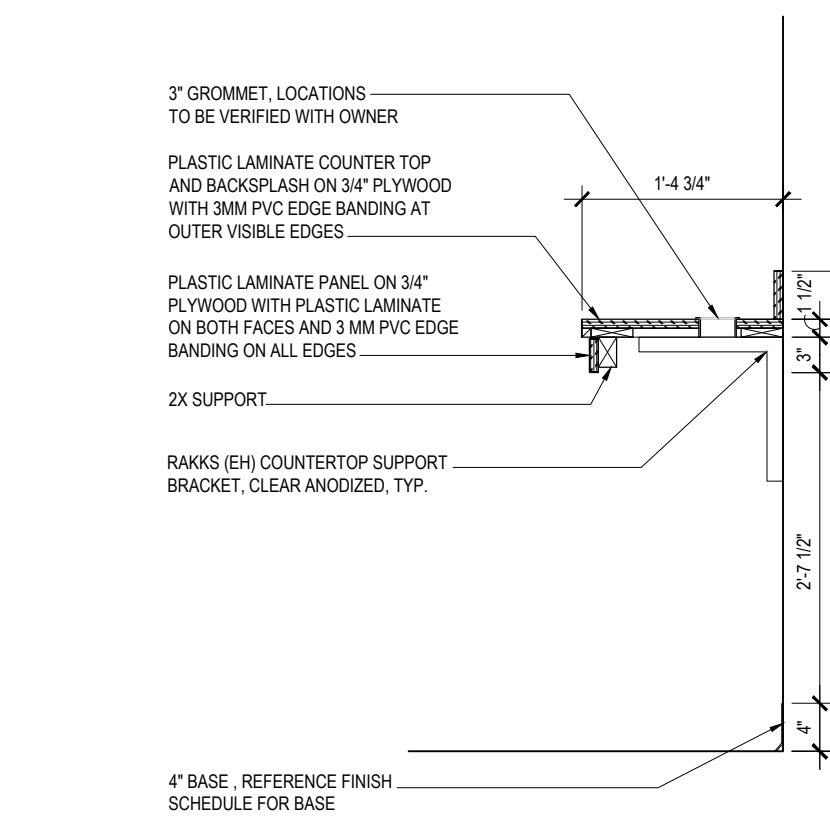
13 30" Base Cabinet Section
Scale: 3/4" = 1'-0"



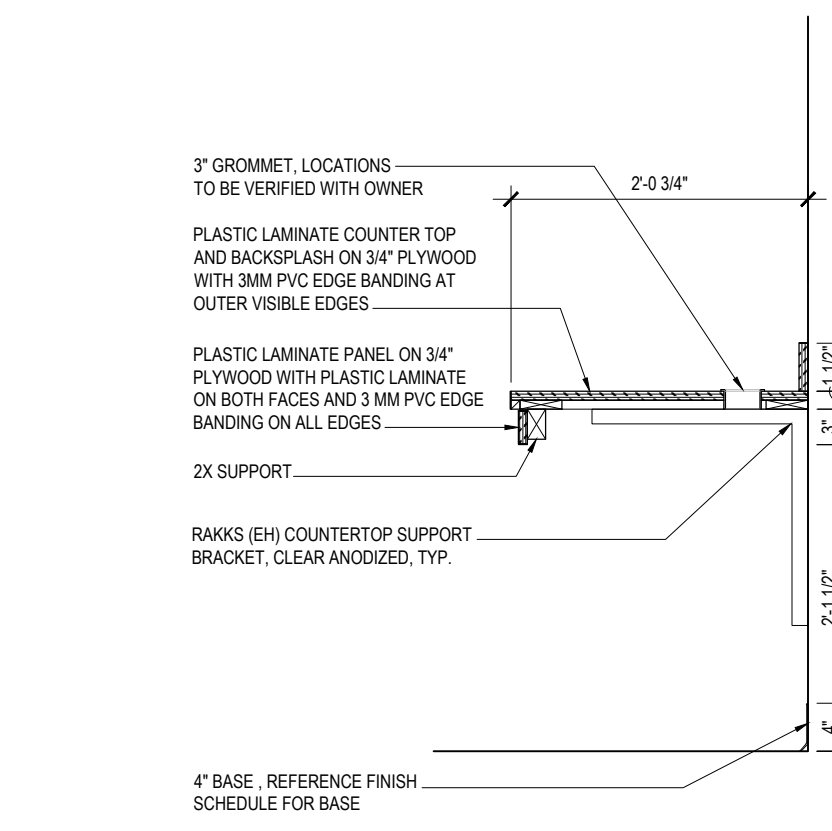
14 30" Base Cabinet Section
Scale: 3/4" = 1'-0"



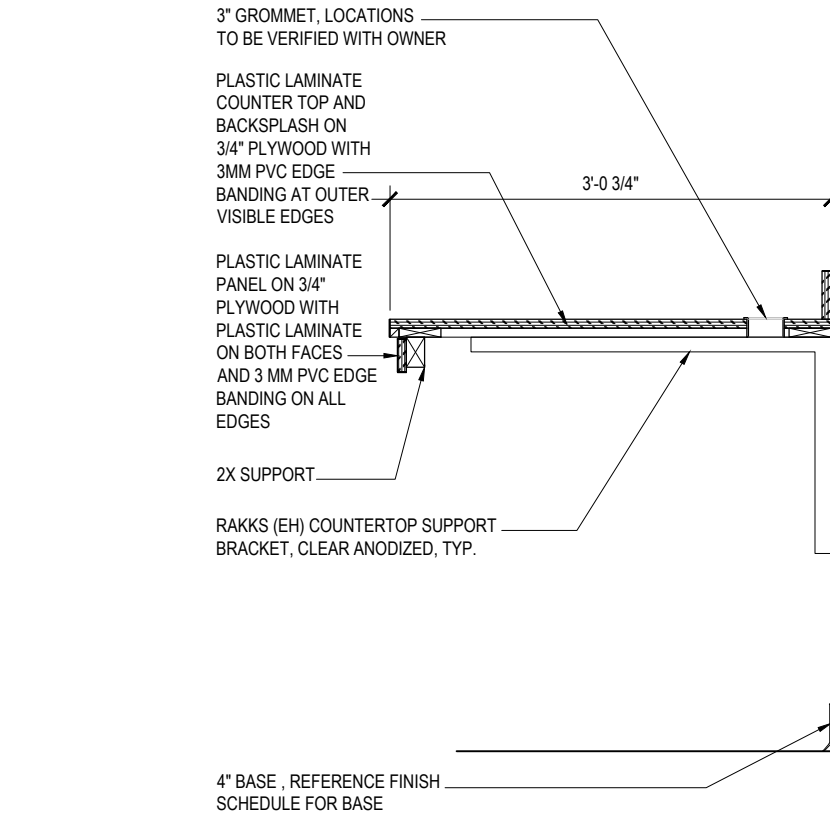
15 30" Base Cabinet Section
Scale: 3/4" = 1'-0"



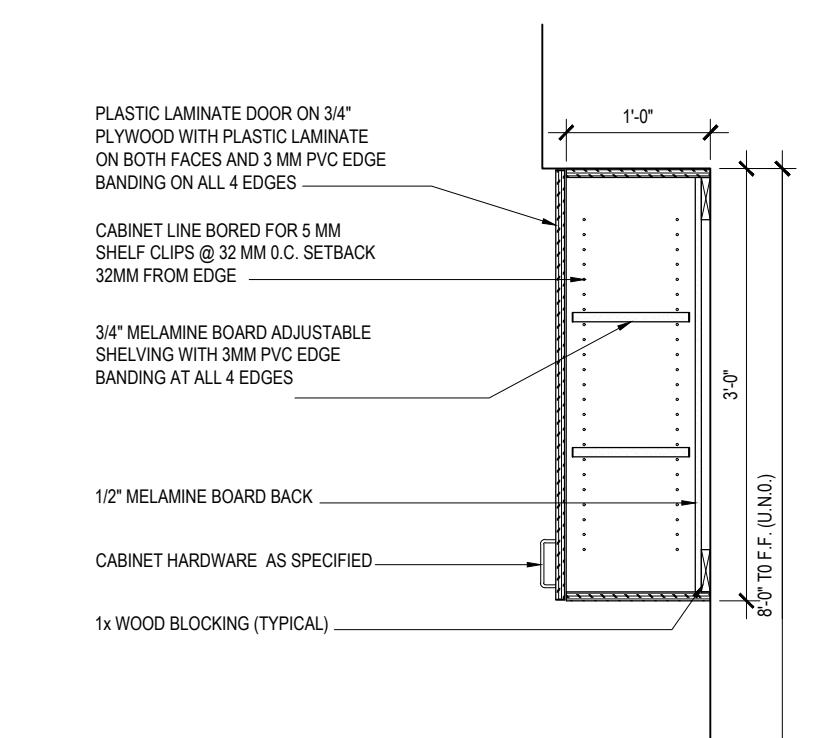
16 36" Writing Counter Section
Scale: 3/4" = 1'-0"



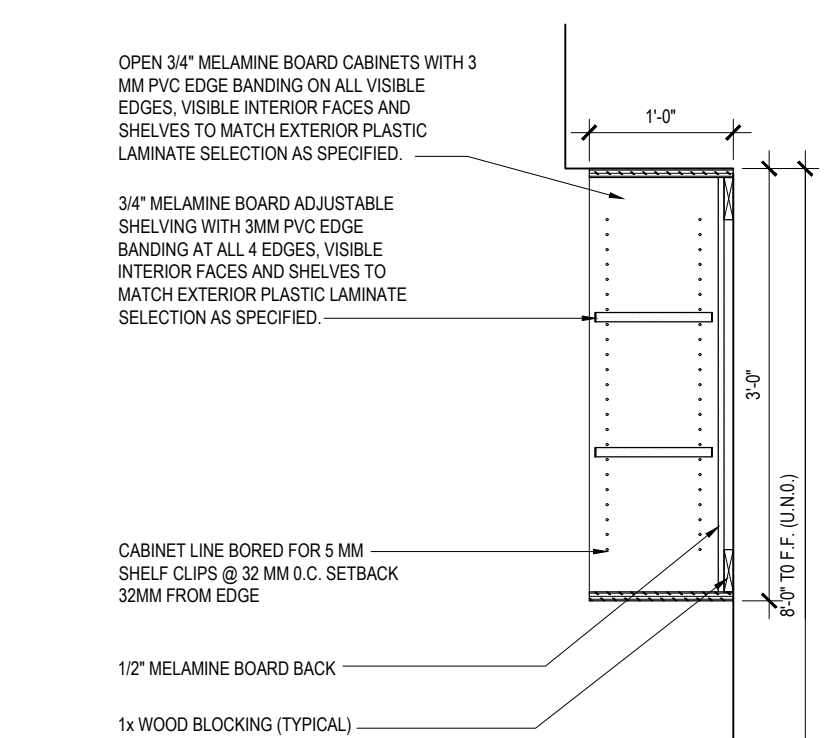
17 30" Writing Counter Section
Scale: 3/4" = 1'-0"



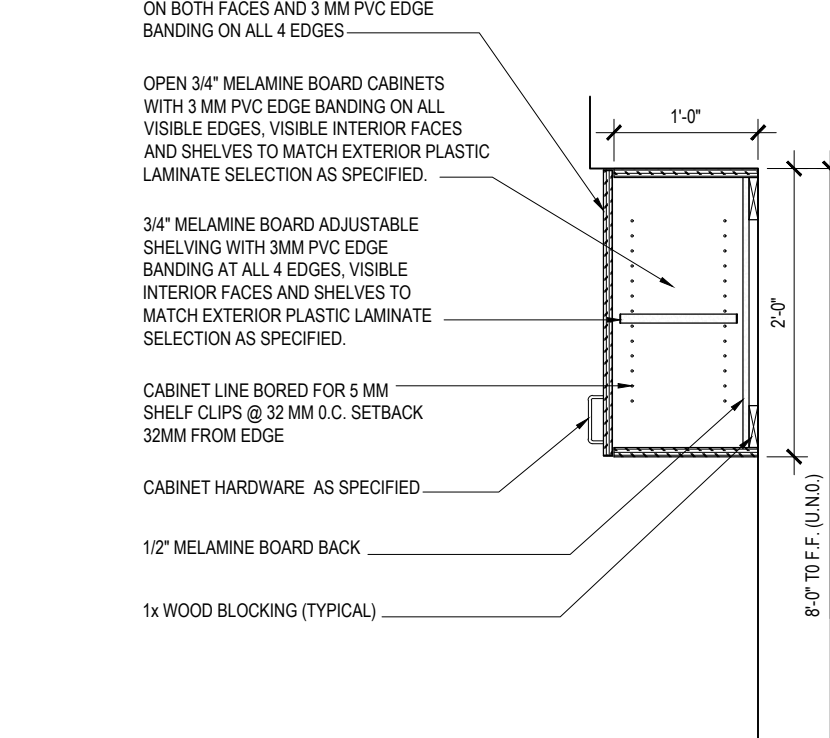
18 36" Writing Counter Section
Scale: 3/4" = 1'-0"



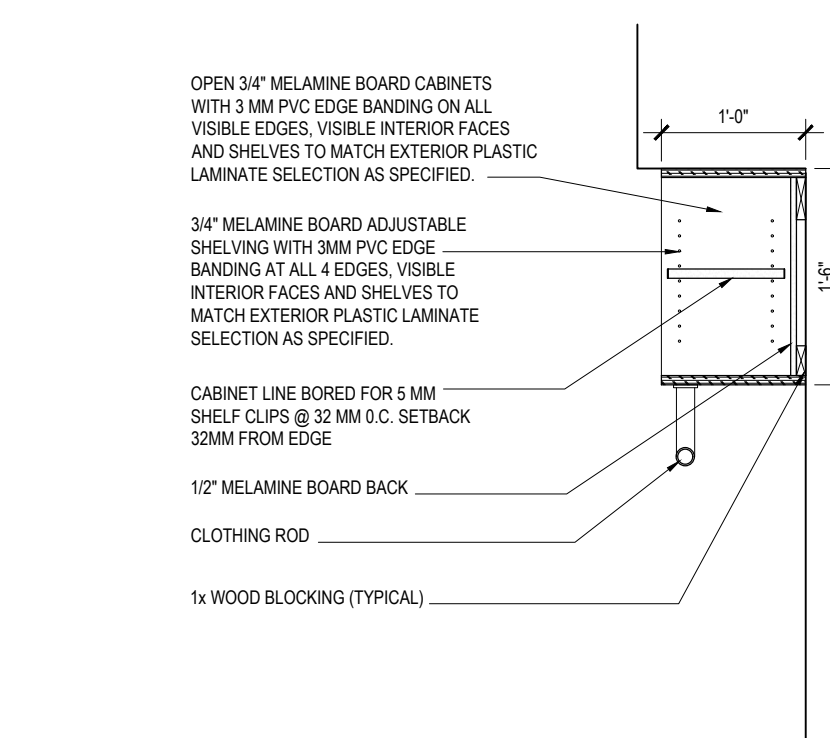
19 36" Upper Cabinet Section
Scale: 3/4" = 1'-0"



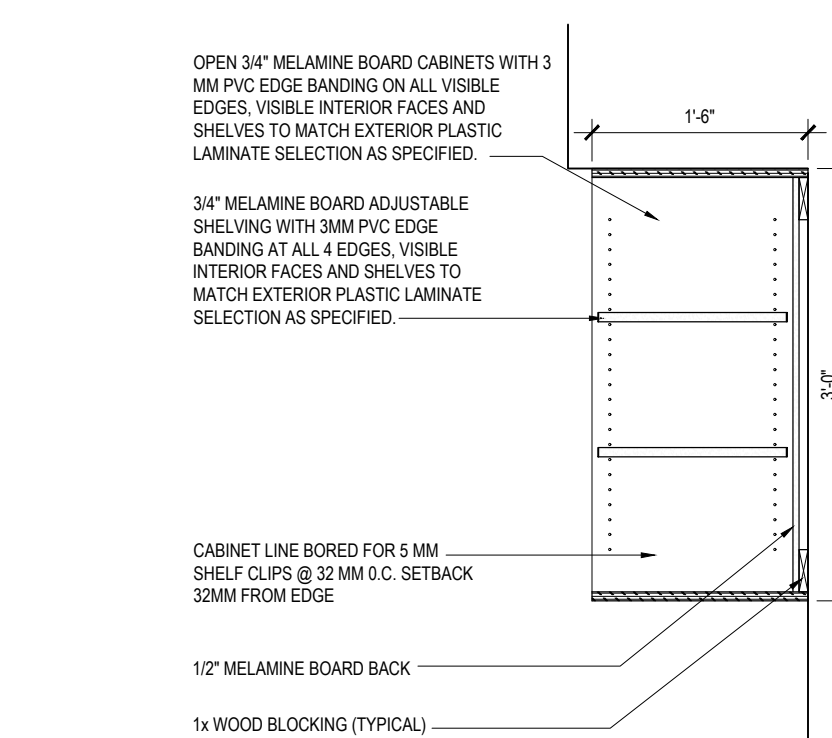
20 36" Upper Cabinet Section
Scale: 3/4" = 1'-0"



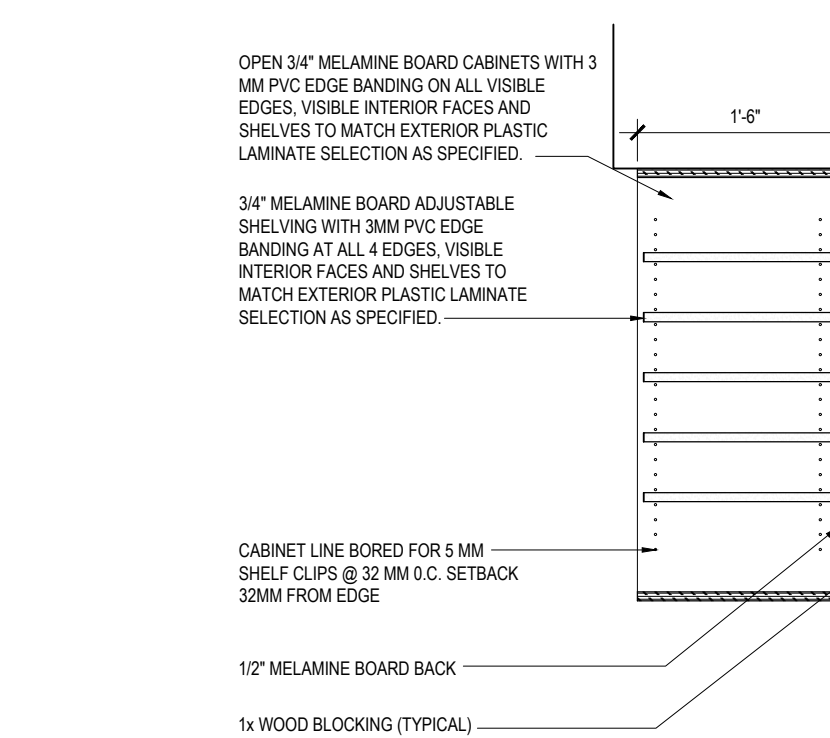
21 24" Upper Cabinet Section
Scale: 3/4" = 1'-0"



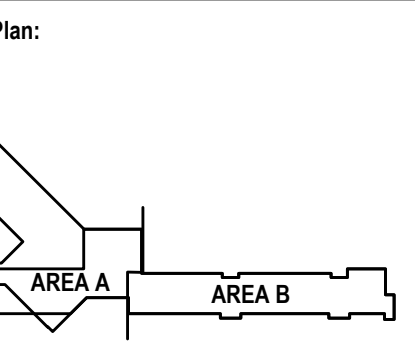
22 18" Upper Cabinet Section
Scale: 3/4" = 1'-0"



23 36" Upper Cabinet Section
Scale: 3/4" = 1'-0"



24 36" Upper Cabinet Section
Scale: 3/4" = 1'-0"



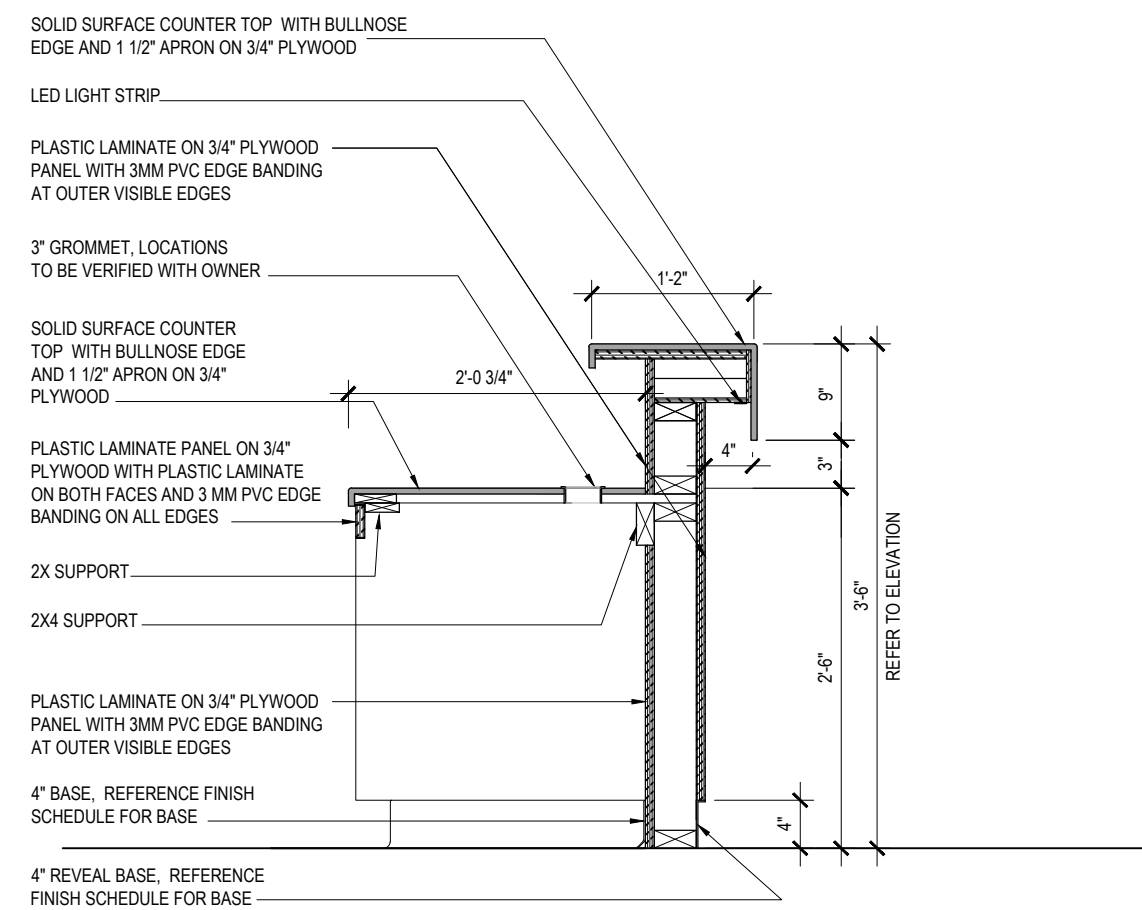
Key Plan:
CONSULTANTS:

CONSULTANTS:

Phase: Bid Documents
Date: 10-26-23
Revisions:

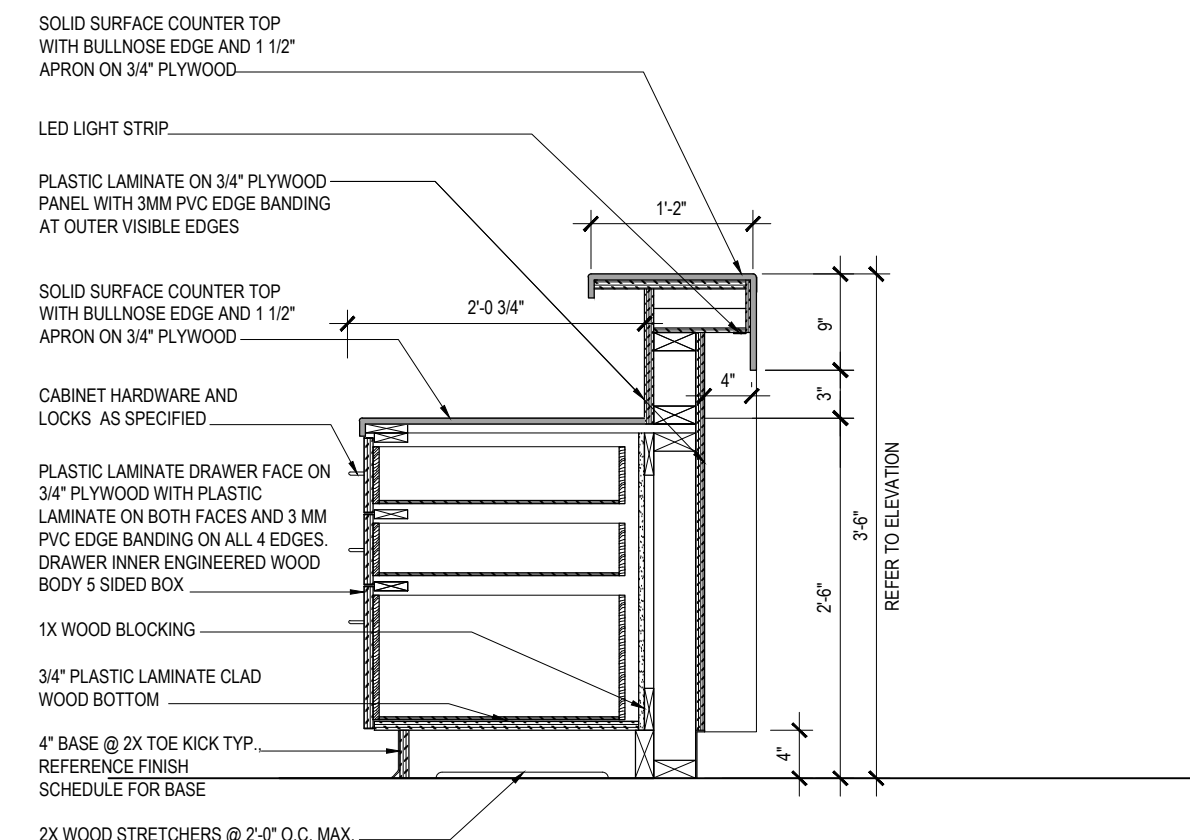


Professional Seal
Scale: 3/4" = 1'-0"
Sht Description: Millwork Details



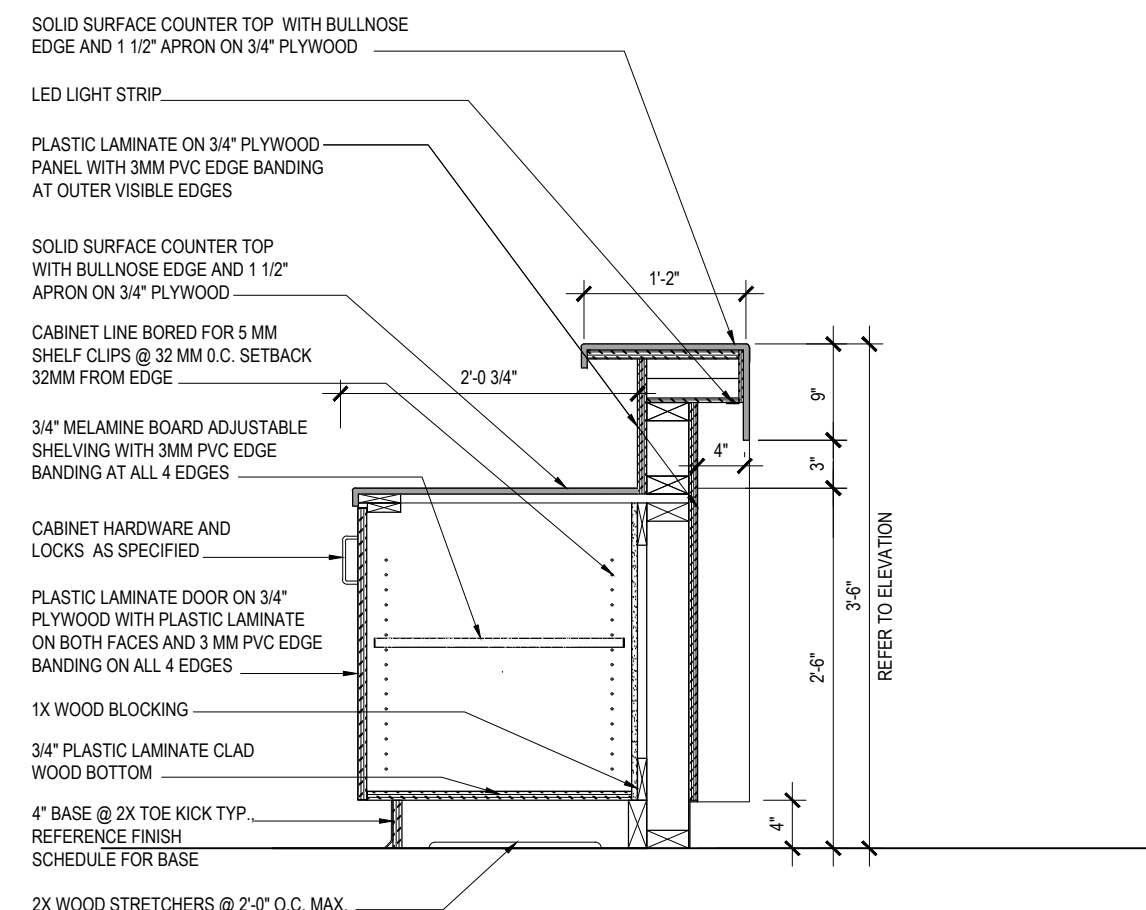
1 Reception Counter Section

Scale: 3/4" = 1'-0"



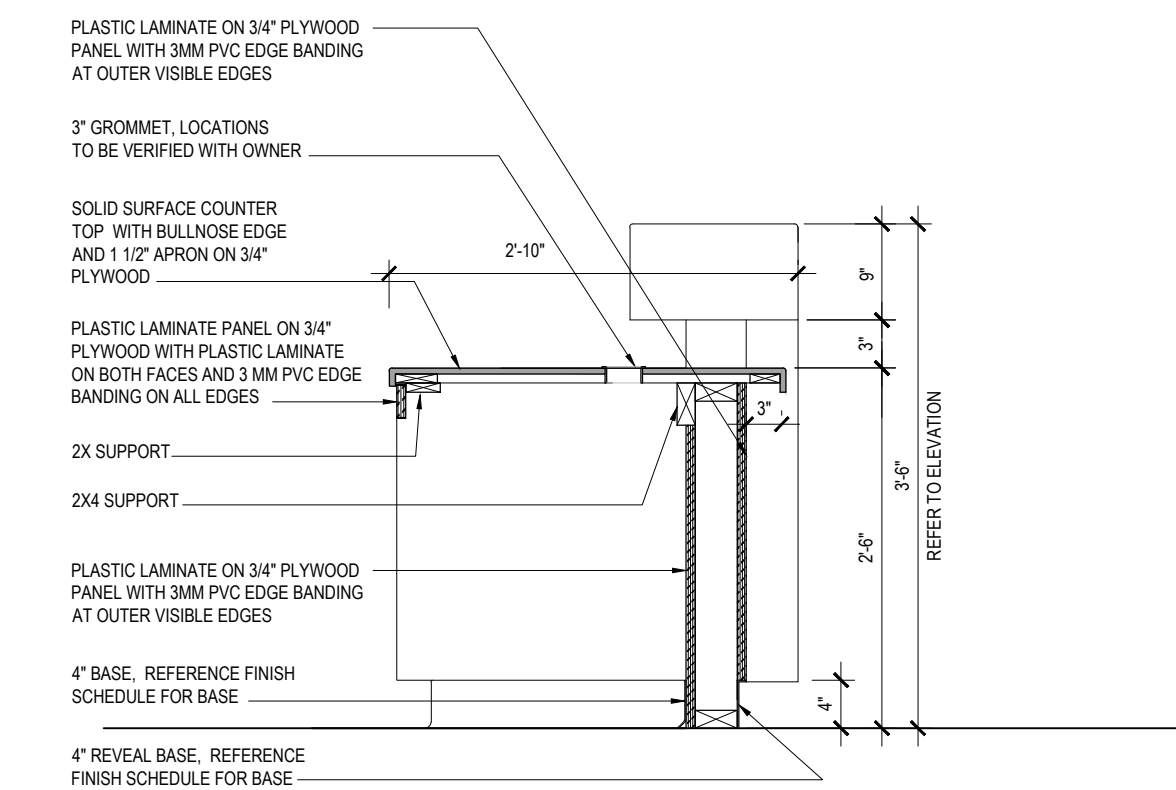
2 Reception Counter Section

Scale: 3/4" = 1'-0"



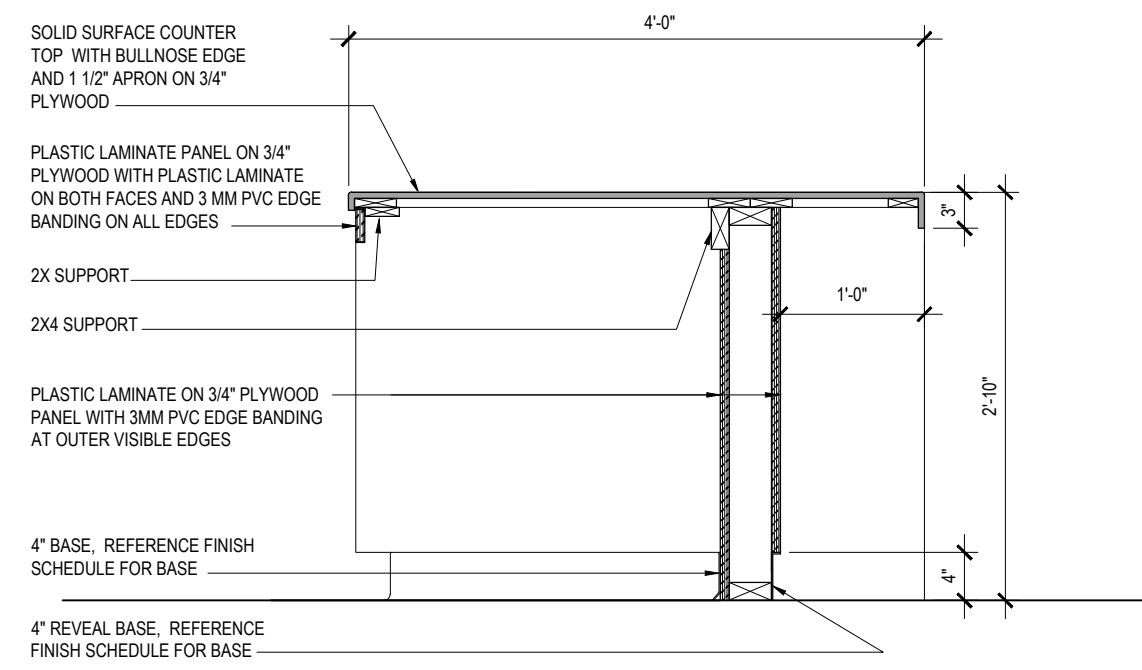
3 Reception Counter Section

Scale: 3/4" = 1'-0"



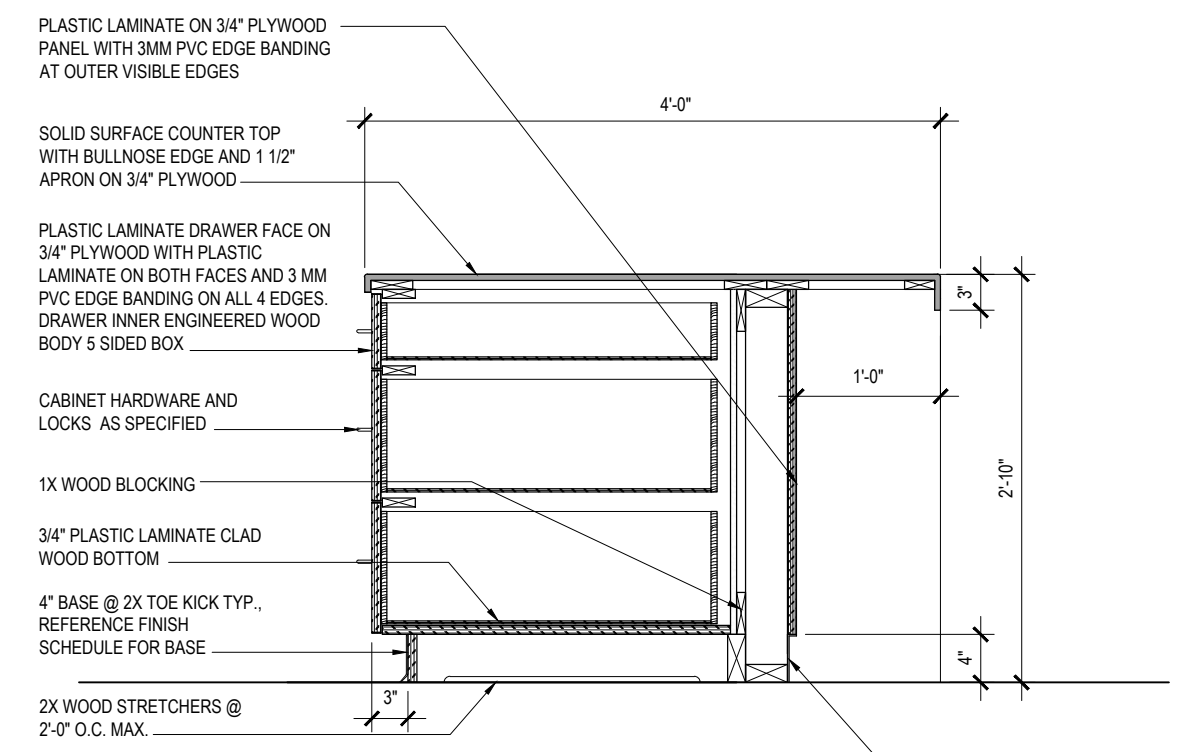
4 Reception Counter Section

Scale: 3/4" = 1'-0"



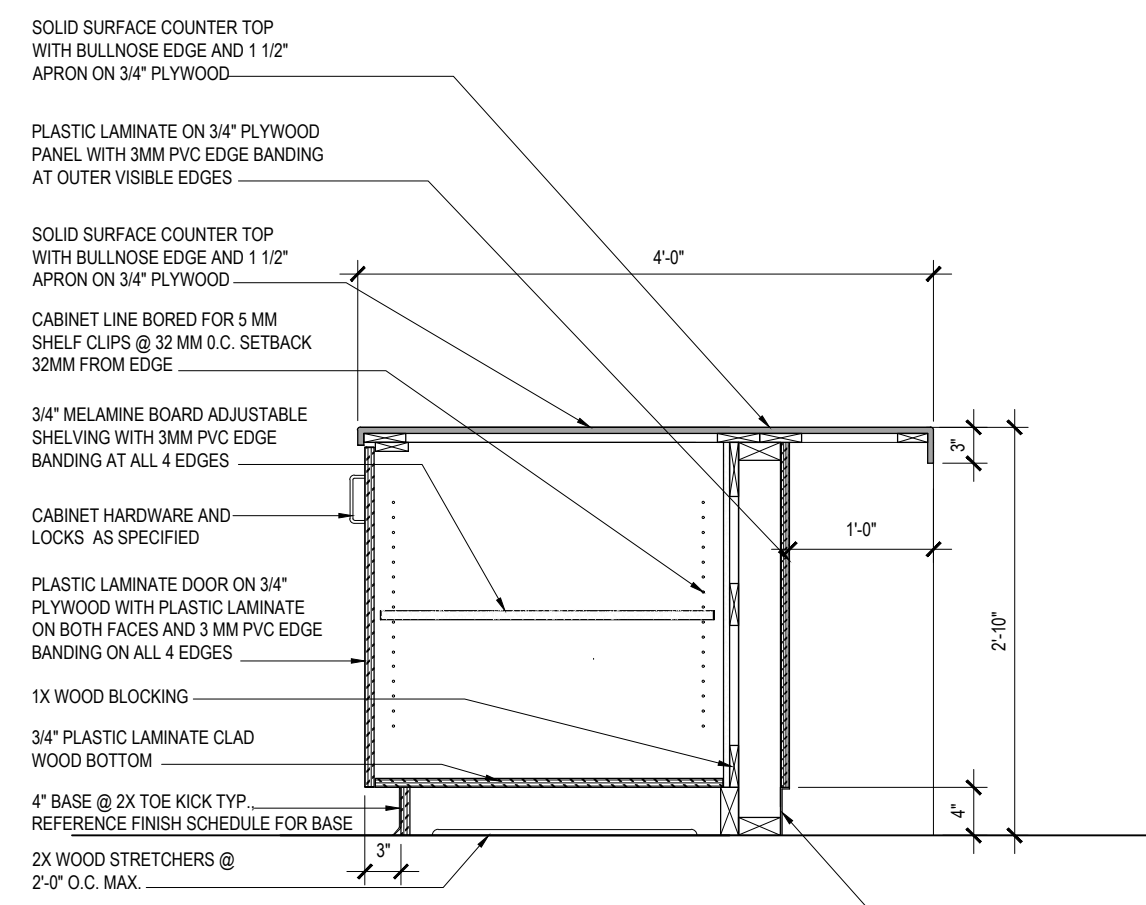
5 34" Island Section

Scale: 3/4" = 1'-0"



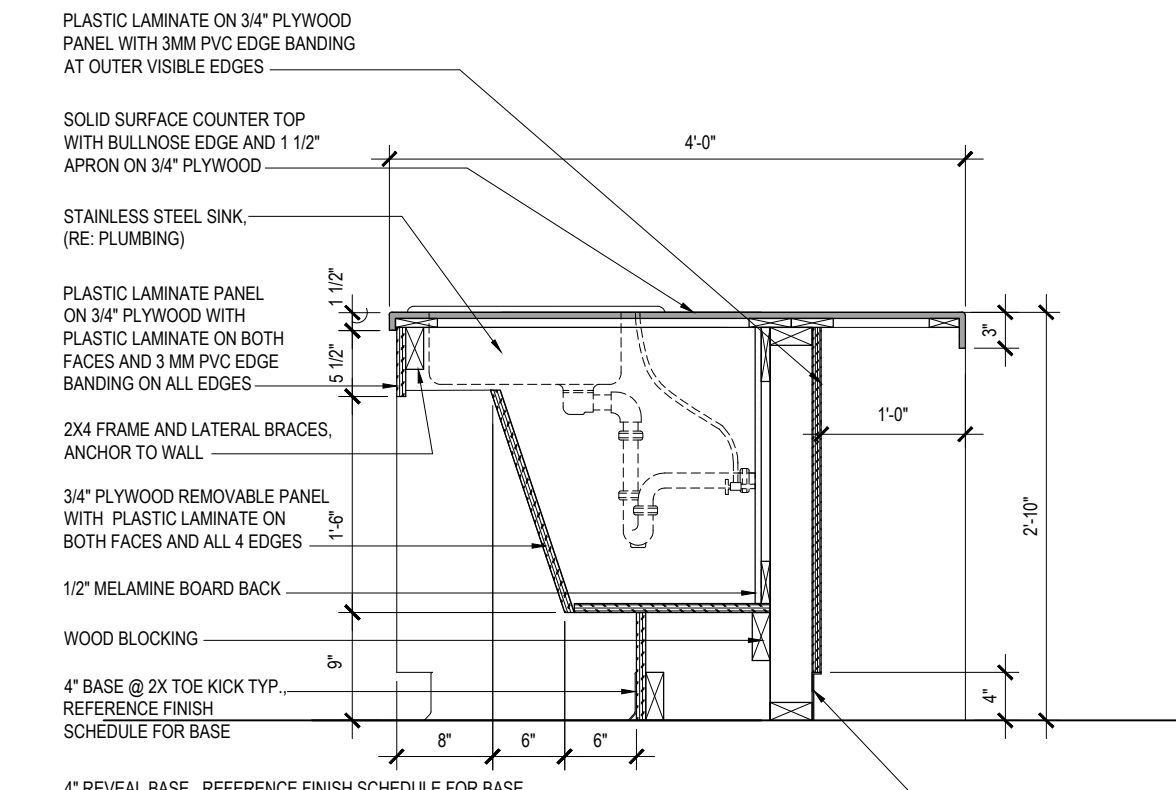
6 34" Island Section

Scale: 3/4" = 1'-0"



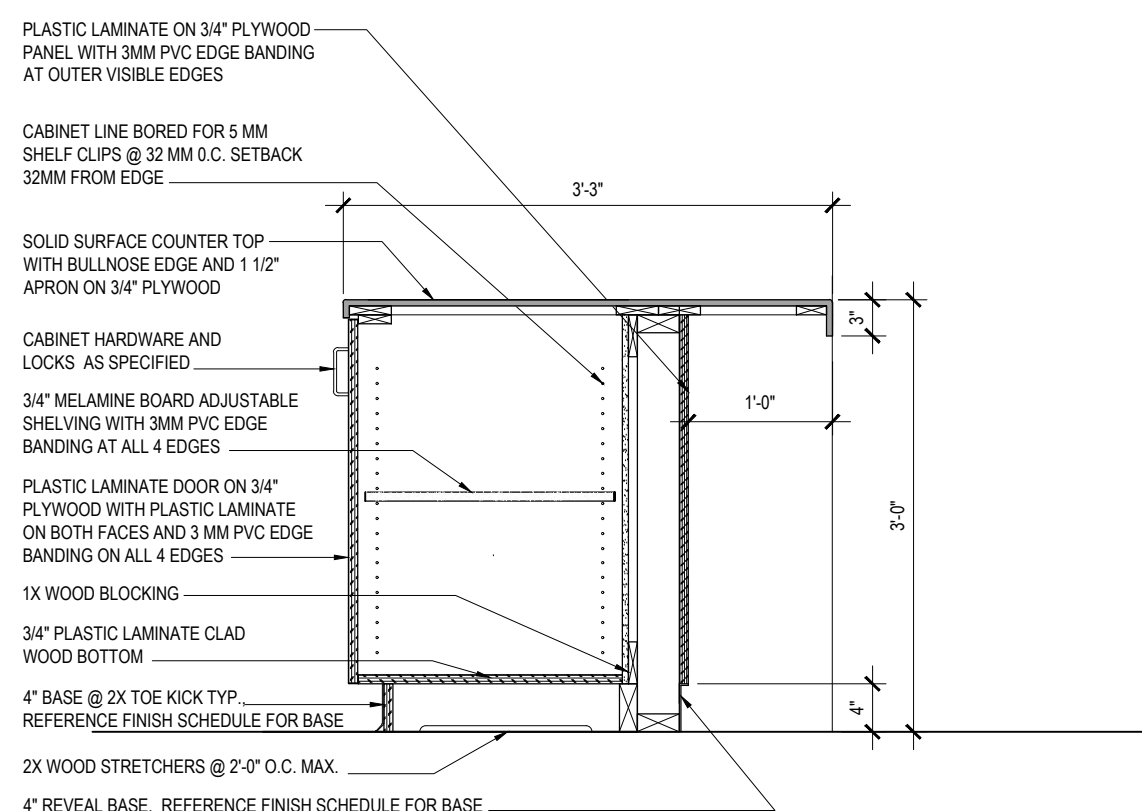
7 34" Island Section

Scale: 3/4" = 1'-0"



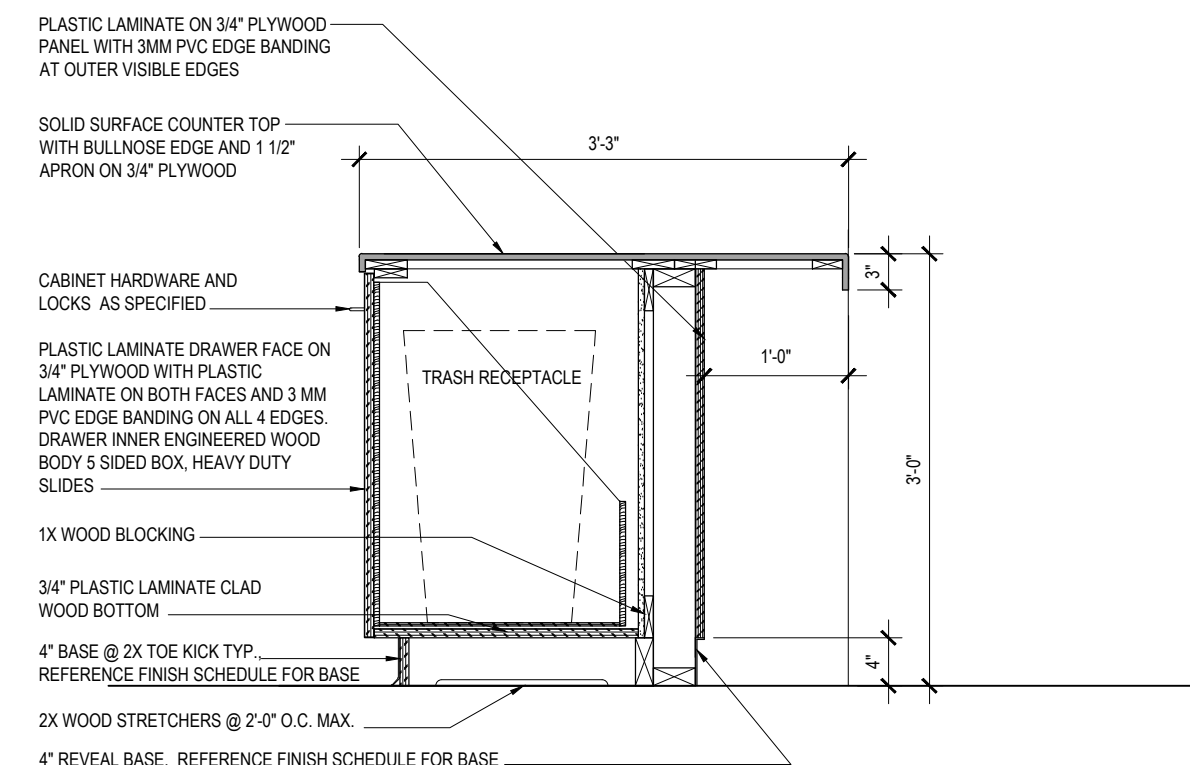
8 34" Island Section

Scale: 3/4" = 1'-0"



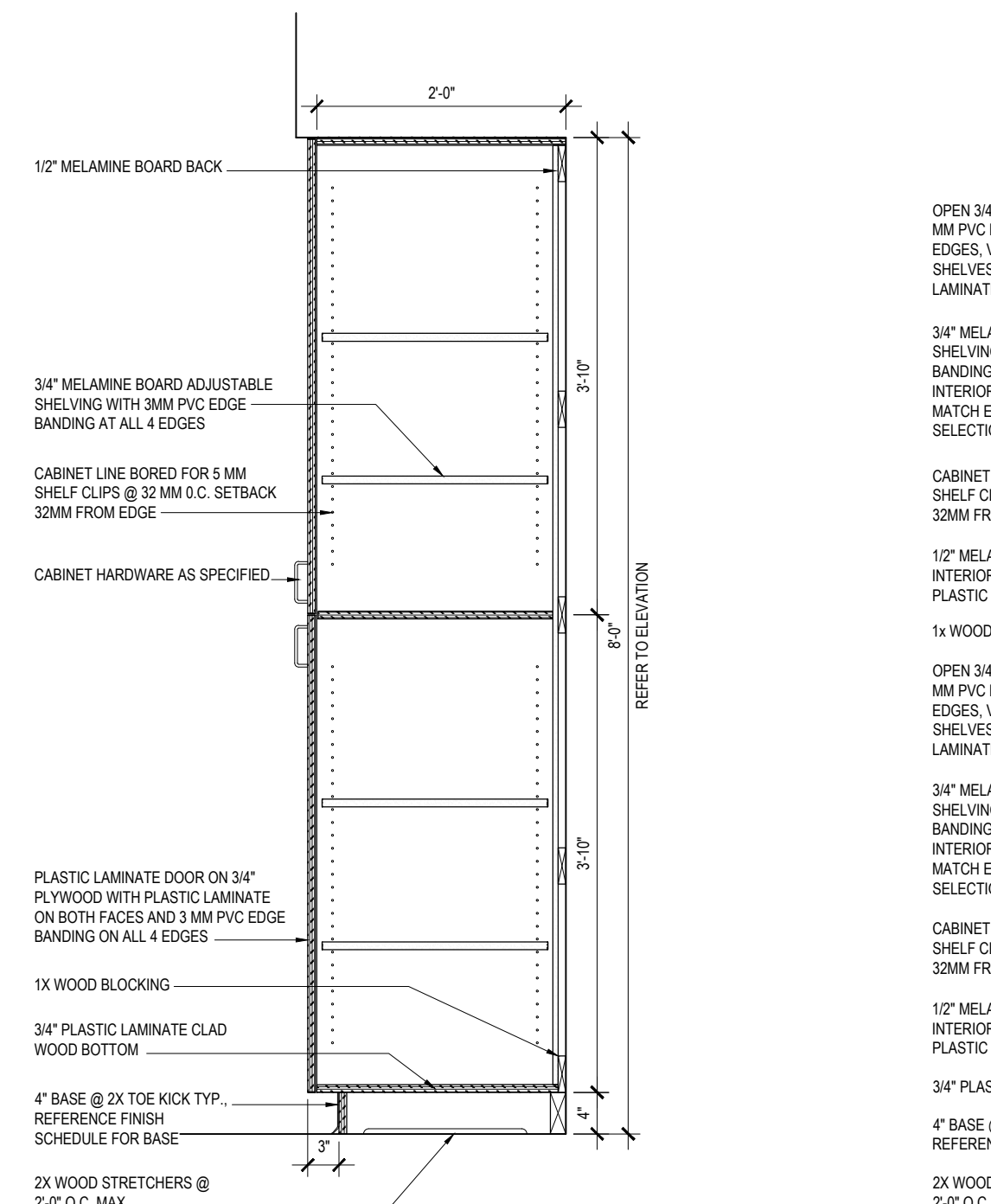
9 36" Island Section

Scale: 3/4" = 1'-0"



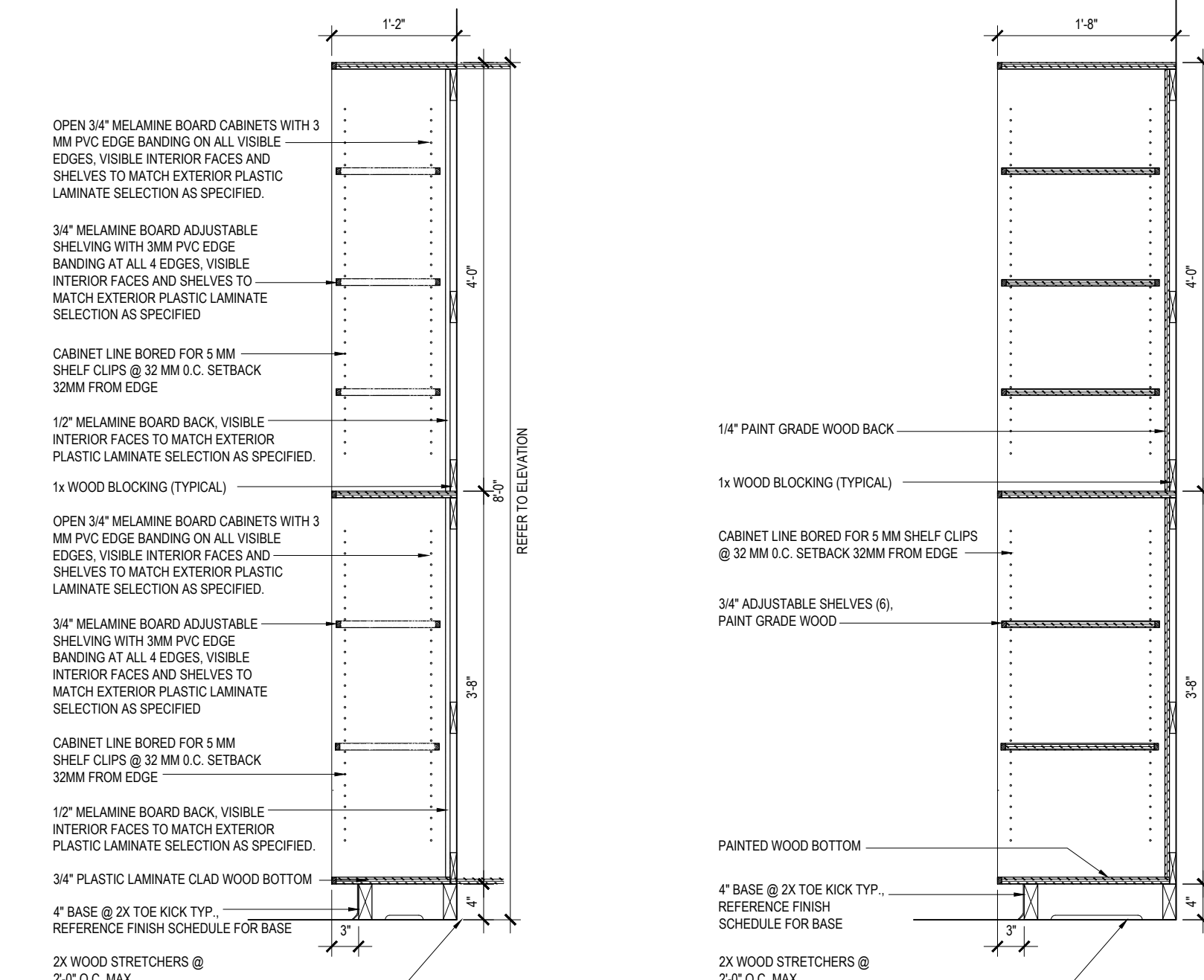
10 36" Island Section

Scale: 3/4" = 1'-0"



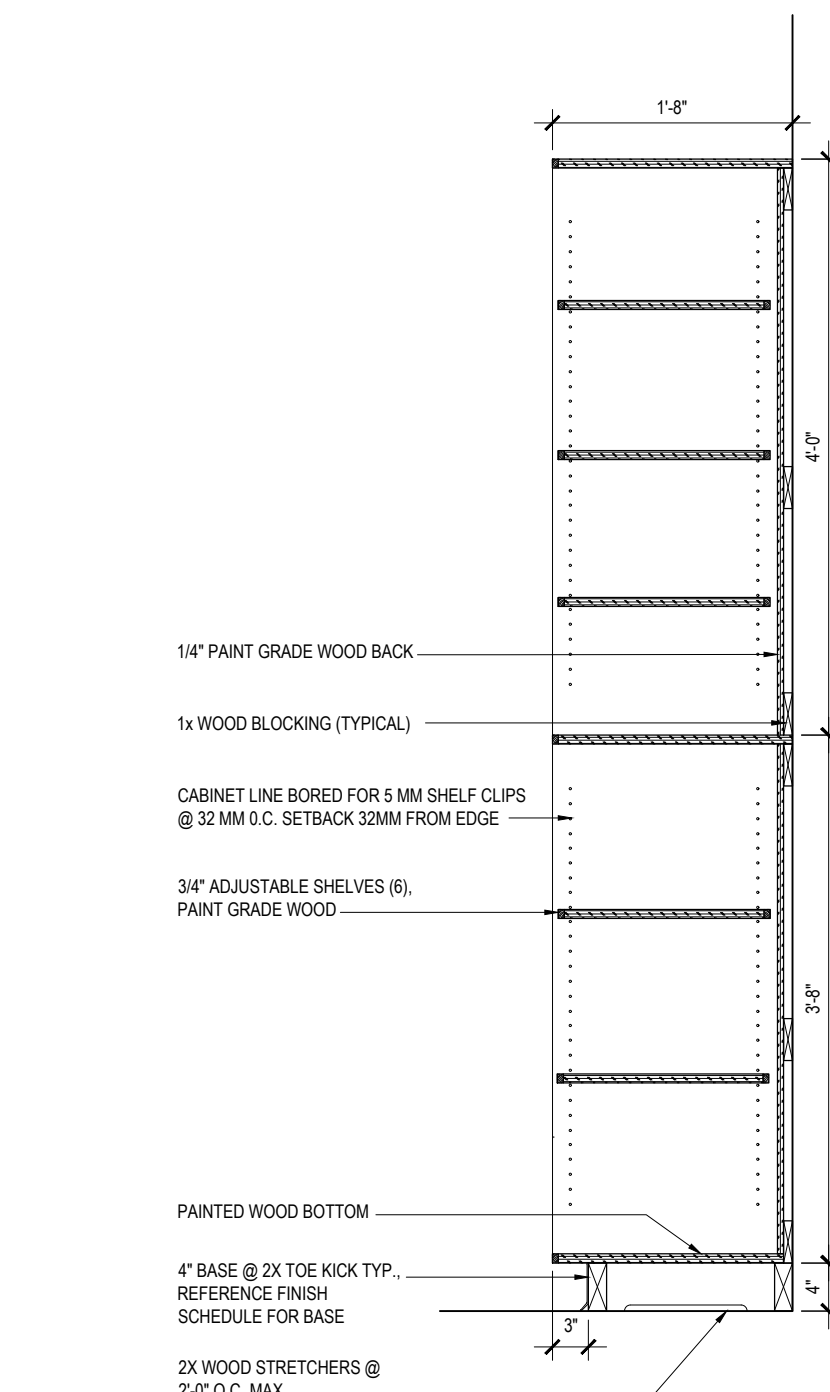
13 90" Full Cabinet Section

Scale: 3/4" = 1'-0"



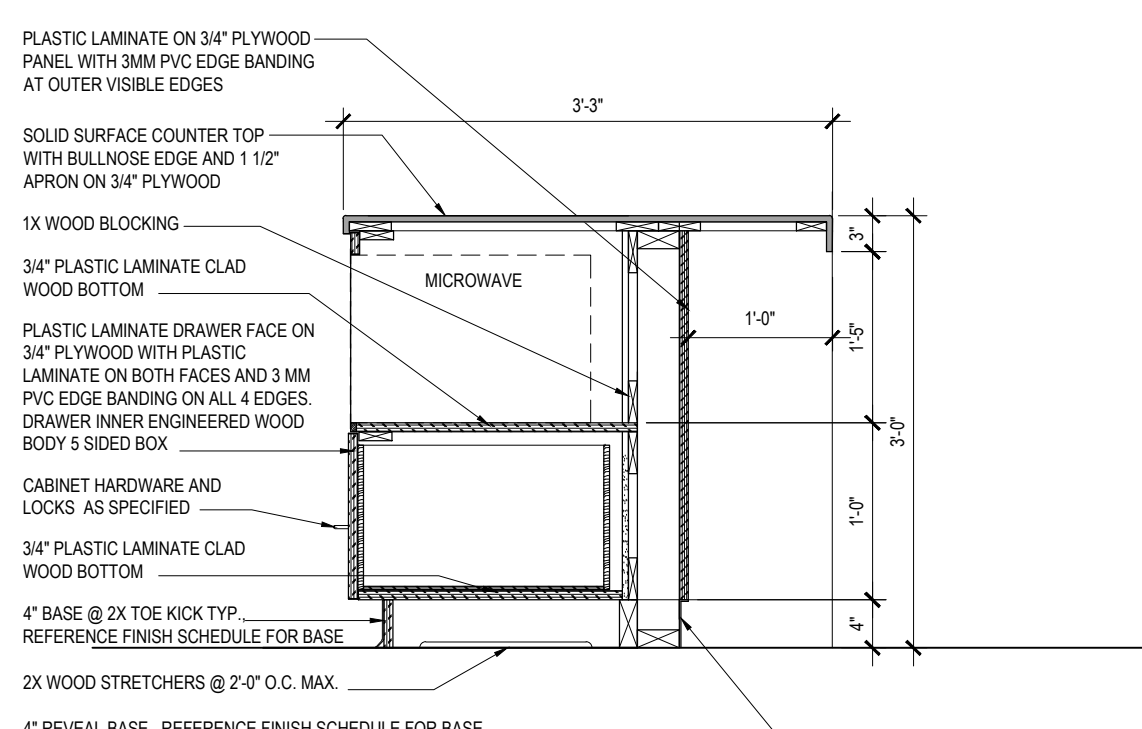
14 90" Full Shelving Section

Scale: 3/4" = 1'-0"



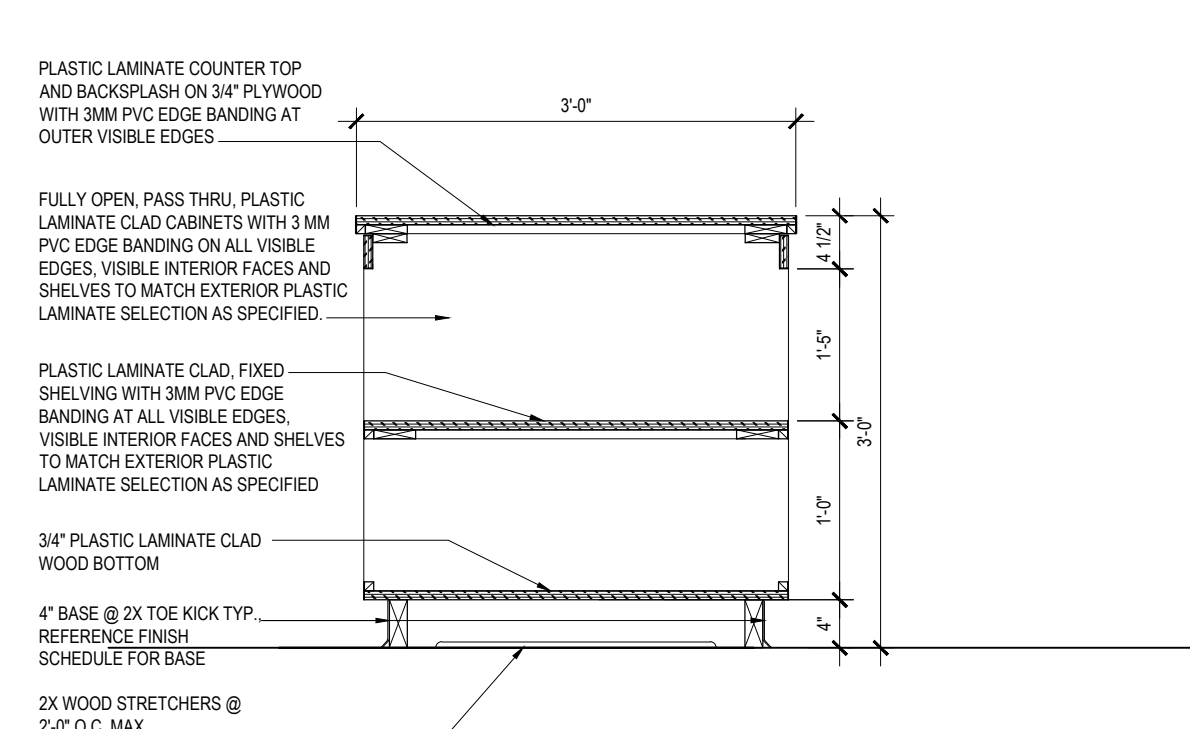
15 90" Full Shelving Section

Scale: 3/4" = 1'-0"



11 36" Island Section

Scale: 3/4" = 1'-0"



12 36" Island Section

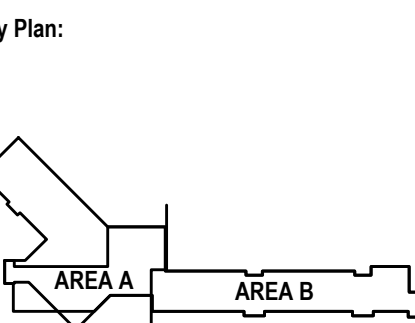
Scale: 3/4" = 1'-0"



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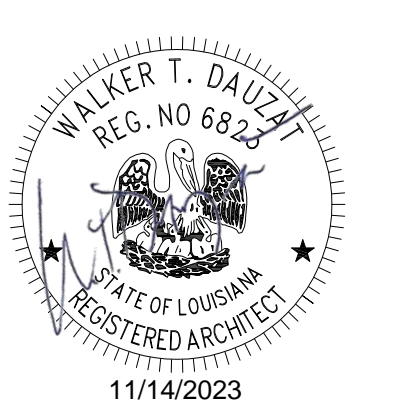
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Consultants:

The Newton Group
New Campus Corporate Headquarters
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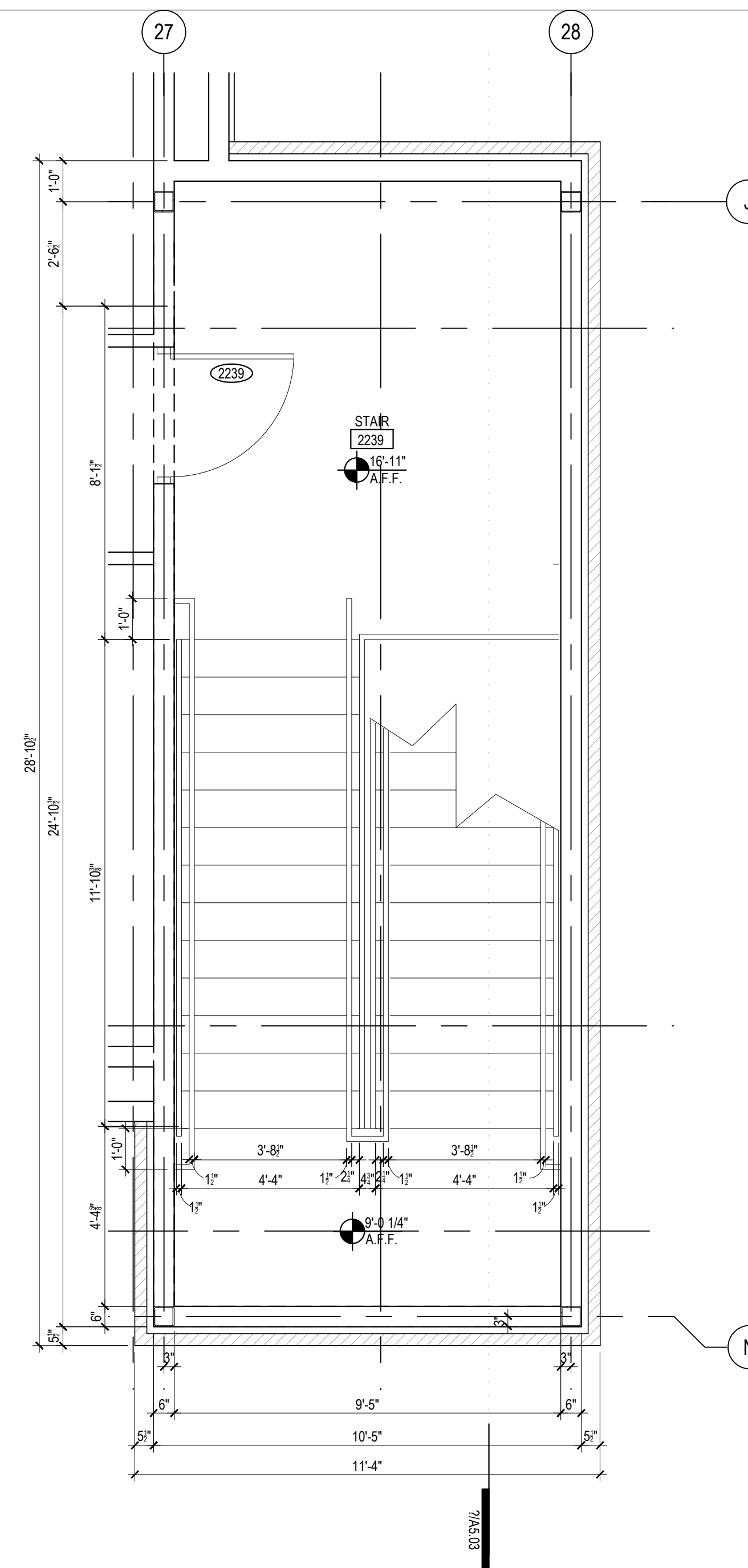
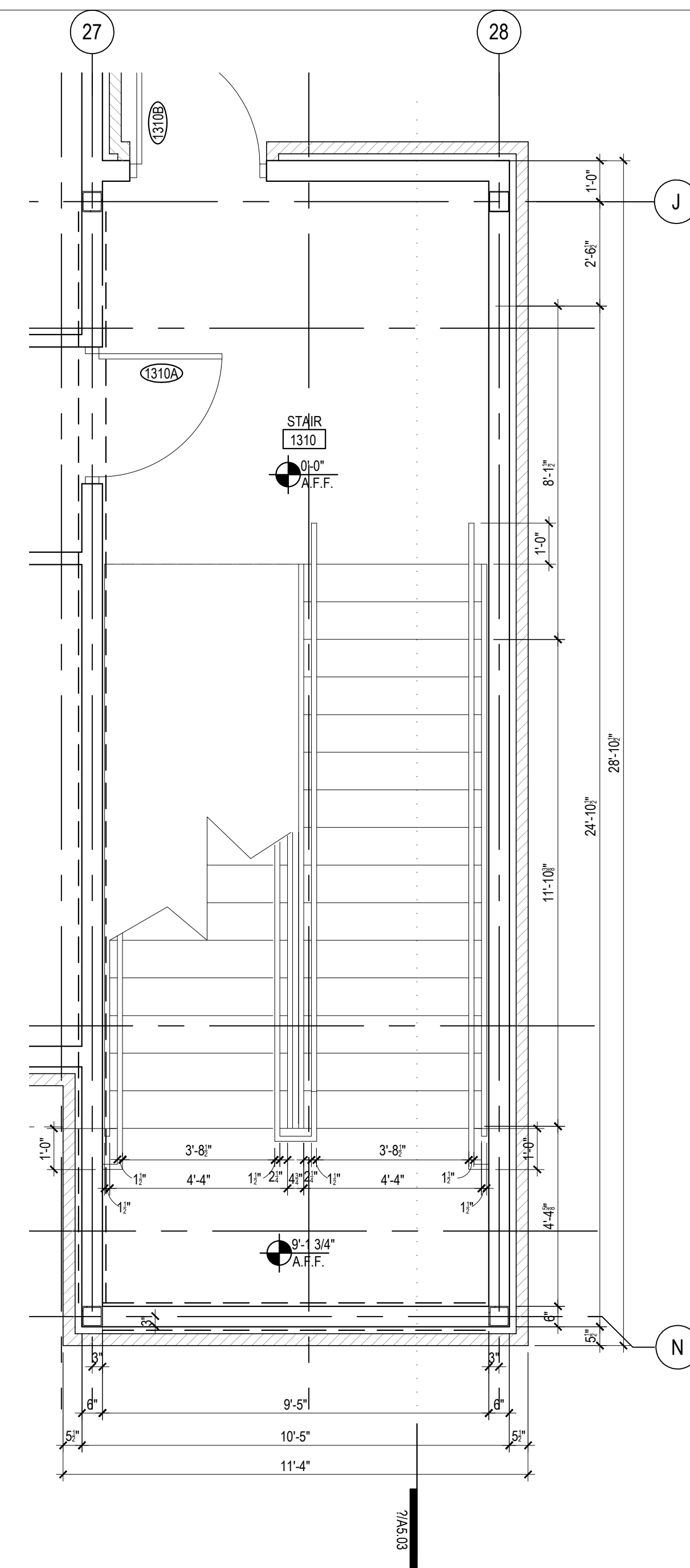
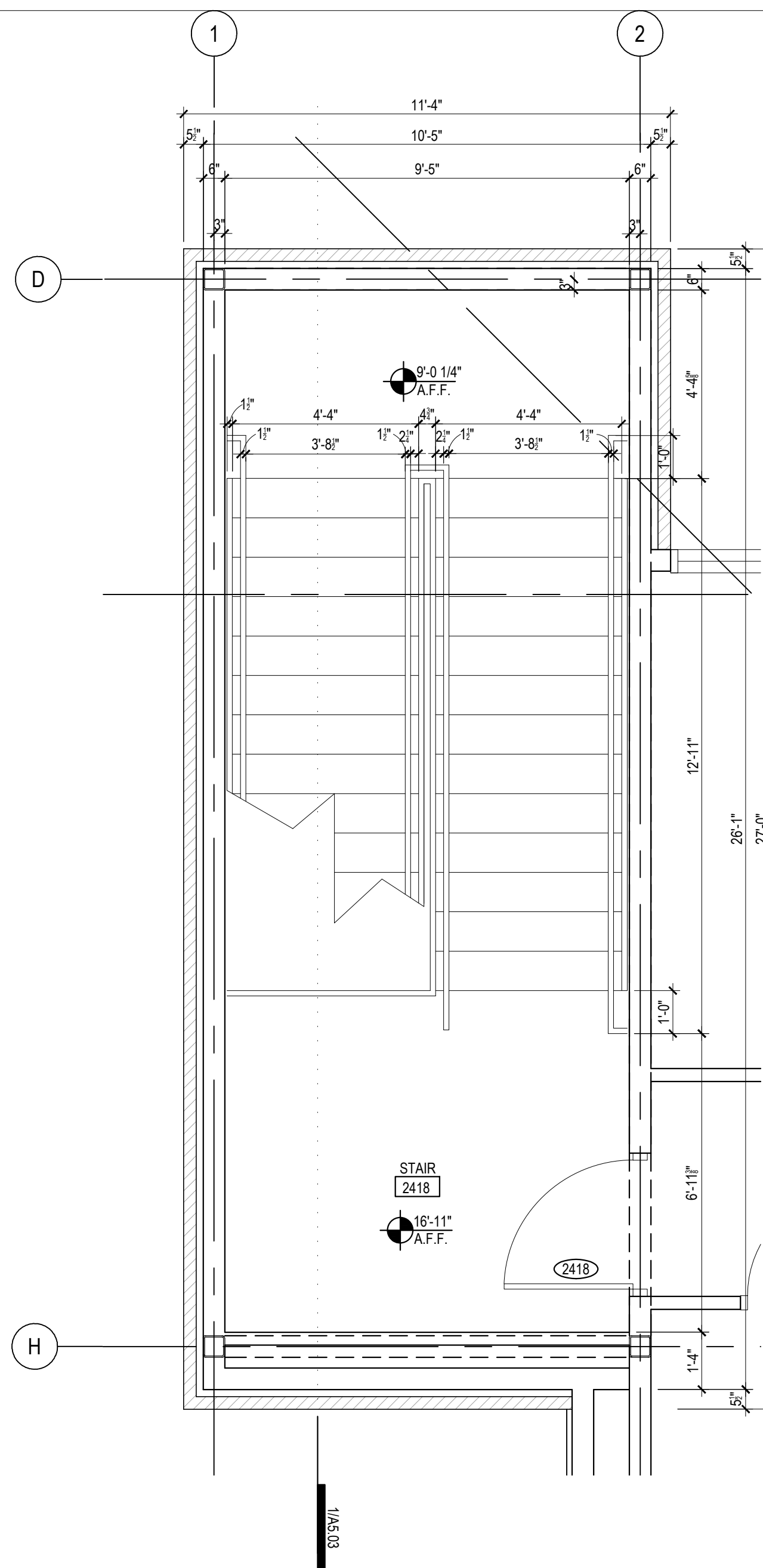
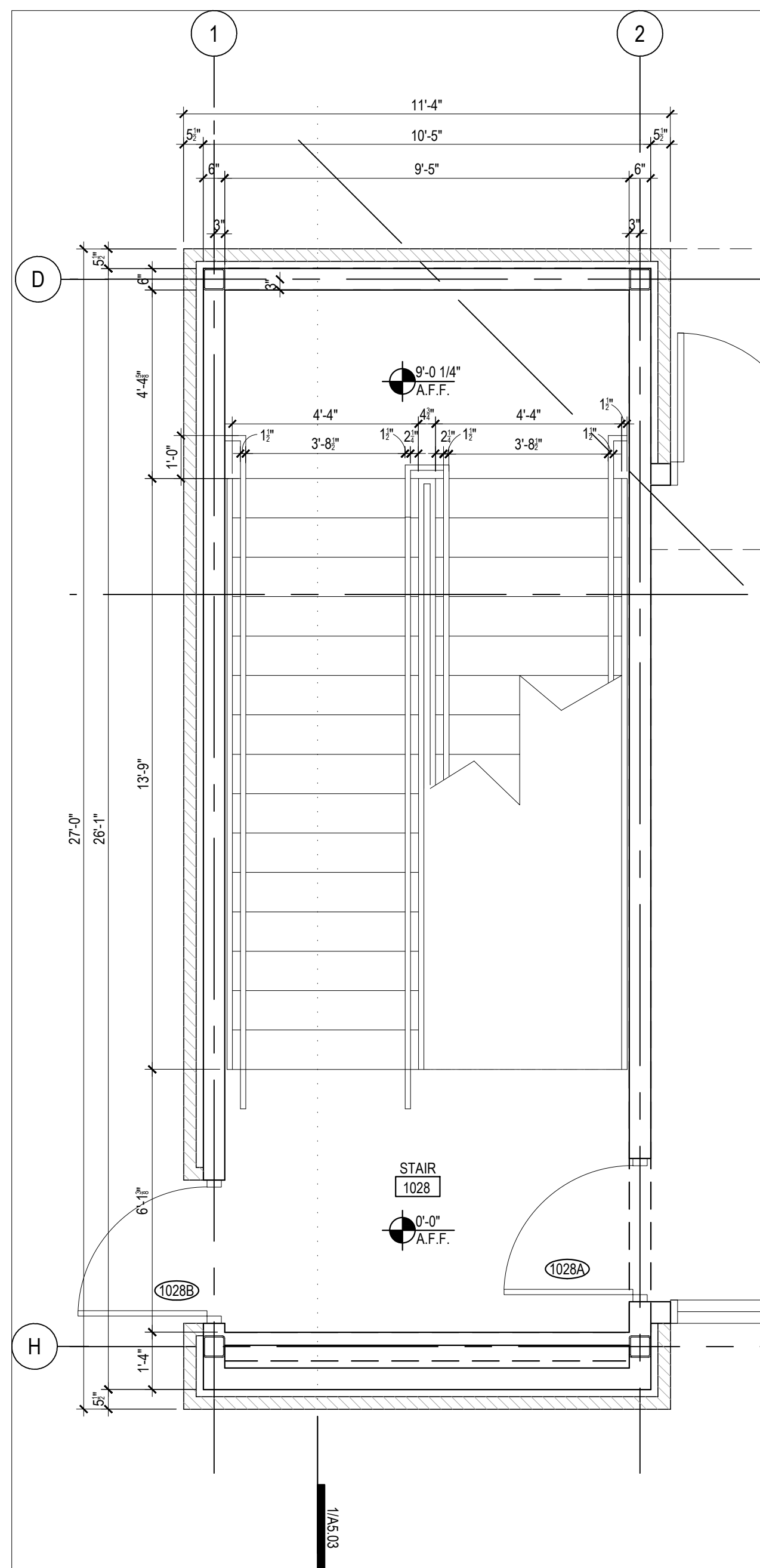
Phase: Bid Documents
Date: 10-26-23
Revisions:



Professional Seal
Scale: 3/4" = 1'-0"
Sht Description: Millwork Details

A4.32

North



1 Enlarged South Stairwell Plan - 1st Floor
Scale: 3/8" = 1'-0"

2 Enlarged South Stairwell Plan - 2nd Floor
Scale: 3/8" = 1'-0"

3 Enlarged North Stairwell Plan - 1st Floor
Scale: 3/8" = 1'-0"

4 Enlarged North Stairwell Plan - 2nd Floor
Scale: 3/8" = 1'-0"

- TYPICAL STAIR NOTES:**
- ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION OF STAIRS
 - BOTH SIDES OF STAIR TO HAVE 42" HIGH GUARDRAIL
 - BOTH SIDES OF STAIR TO HAVE CONTINUOUS GRASPABLE HANDRAIL 34" HIGH FROM LEADING EDGE OF TREAD
 - RISER - MAX 7" (CLOSED), TREAD - MIN 11"
 - THERE SHALL BE NO VARIATION EXCEEDING 3/16 IN. IN DEPTH OF ADJACENT TREADS OR IN THE HEIGHT OF ADJACENT RISERS, AND THE TOLERANCE BETWEEN THE LARGEST AND THE SMALLEST RISER OR THE LARGEST OR SMALLEST TREAD SHALL NOT EXCEED 3/8 IN. IN ANY FLIGHT.
 - "WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES OR OTHER CIRCULATION SPACES SHALL HAVE 80" MINIMUM CLEAR HEAD ROOM. IF VERTICAL CLEARANCE OF AN AREA ADJOINING THE ACCESSIBLE ROUTE IS REDUCED TO LESS THAN 80" (NOMINAL), A BARRIER TO WARN THE BLIND OR VISUALLY-IMPAIRED SHALL BE PROVIDED. THIS BARRIER SHALL BE A MAXIMUM OF 27" ABOVE THE FLOOR.
 - GUARDRAILS SHALL BE DESIGNED SO THAT A SPHERE OF 4 INCHES DIAMETER SHALL NOT BE ABLE TO PASS THROUGH ANY OPENING UP TO A HEIGHT OF 34 INCHES.
 - THE TRIANGULAR OPENING FORMED BY THE RISER, TREAD, AND BOTTOM OF THE GUARDRAIL AT THE SIDE OF A STAIR SHALL BE OF SUCH SIZE THAT A SPHERE OF 6 INCHES DIAMETER IS NOT ABLE TO PASS THROUGH THE TRIANGULAR OPENING.

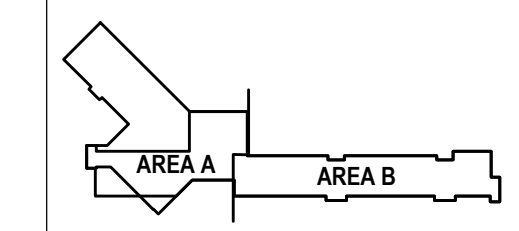


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Date: 10-26-23

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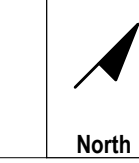


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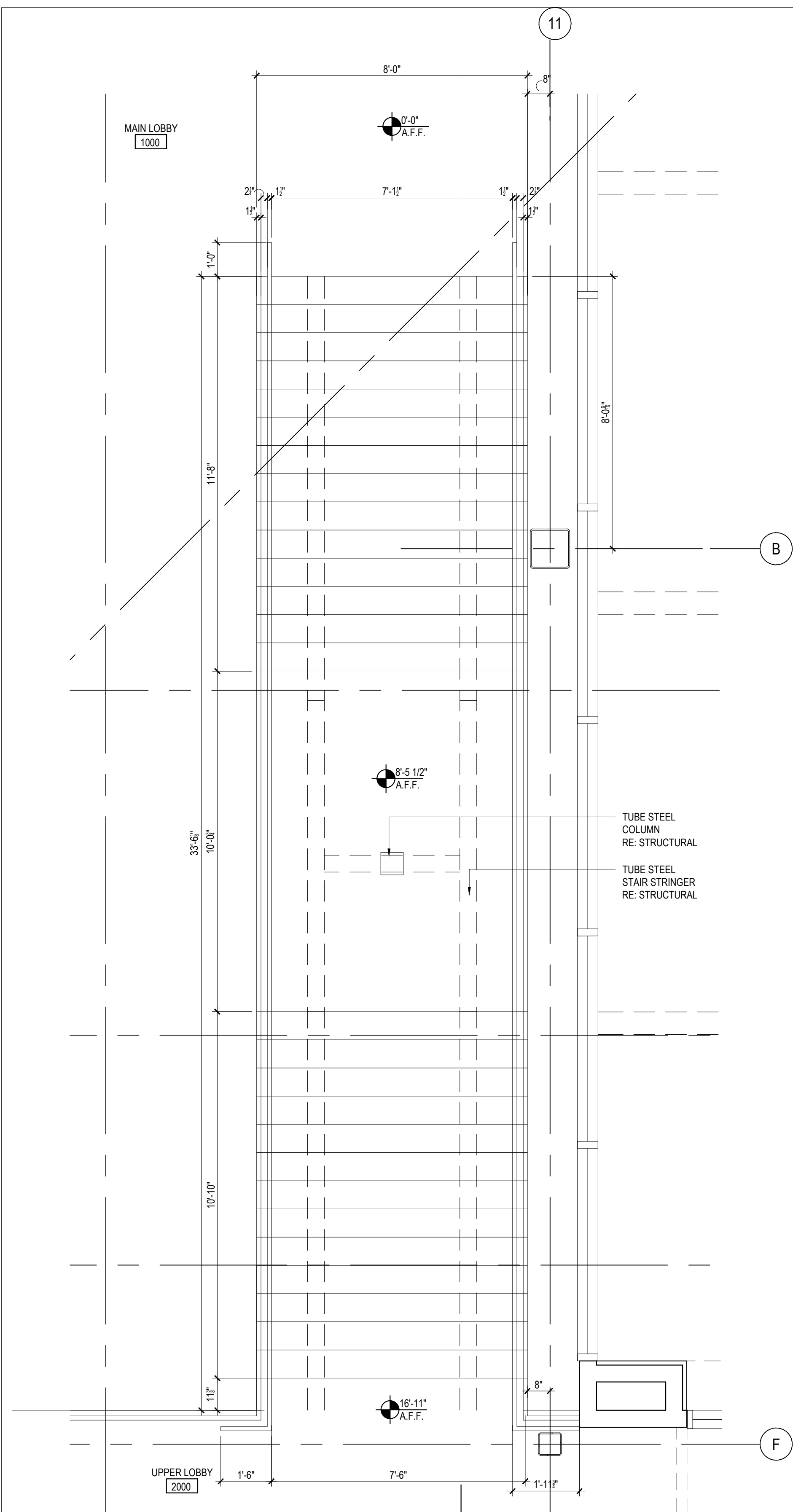
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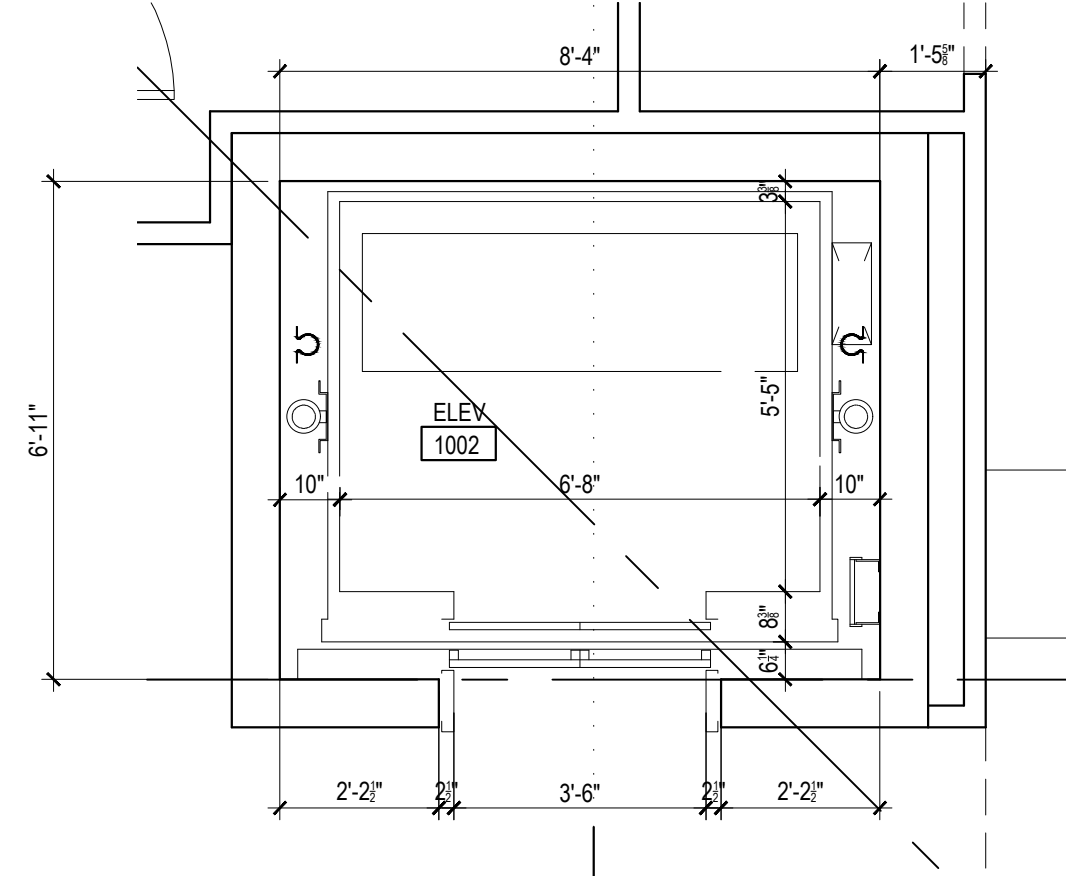
Vertical Circulation



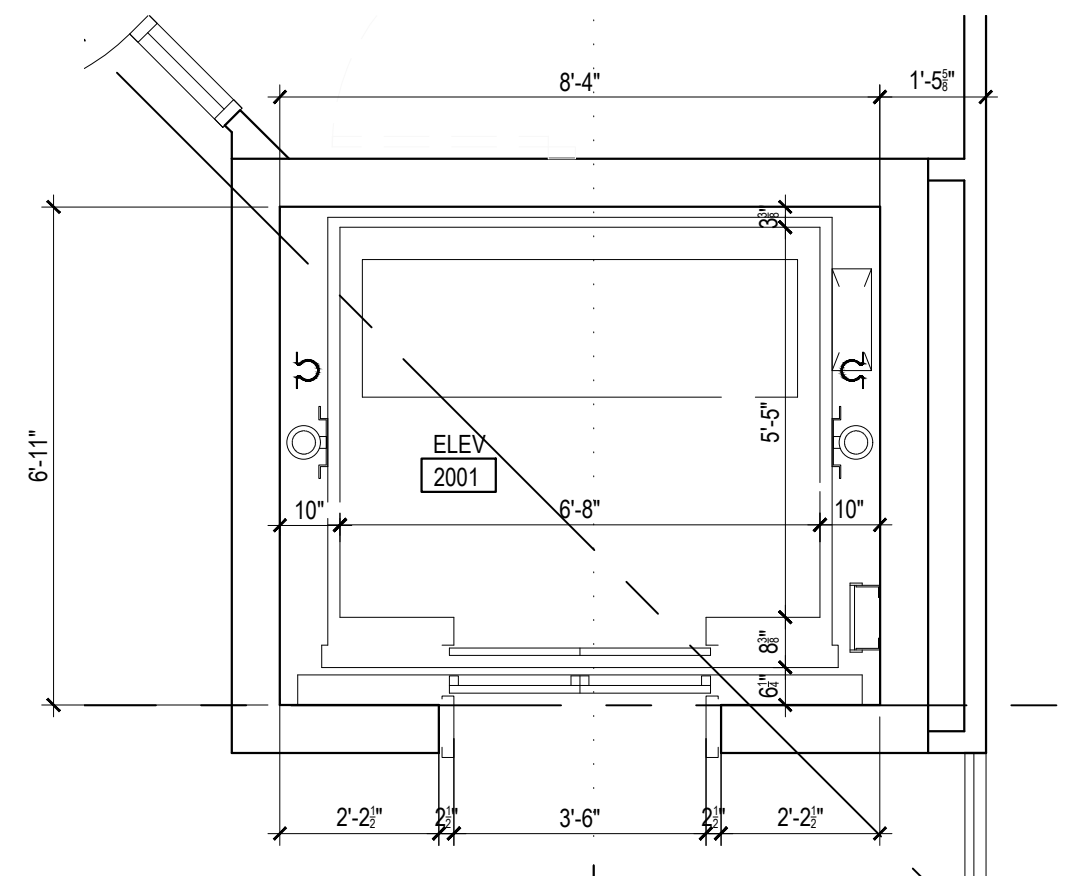
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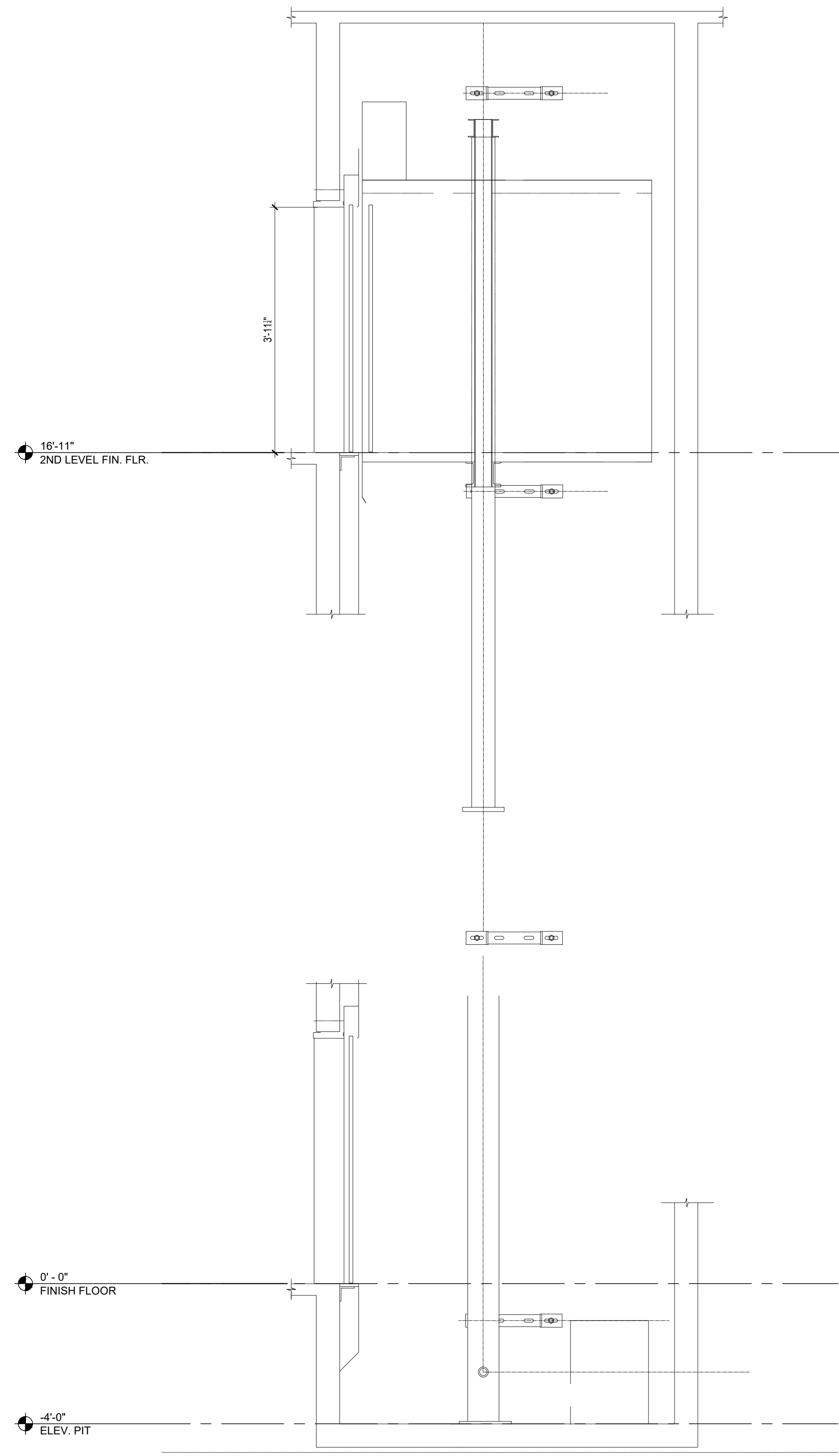
1 Enlarged Lobby Stair Plan
Scale: 3/8" = 1'-0"



2 Enlarged Elevator Plan - 1st Floor
Scale: 3/8" = 1'-0"



3 Enlarged Elevator Plan - 2nd Floor
Scale: 3/8" = 1'-0"



4 Section @ Elevator Shaft
Scale: 3/4" = 1'-0"

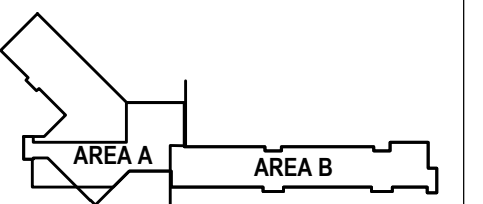


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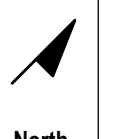


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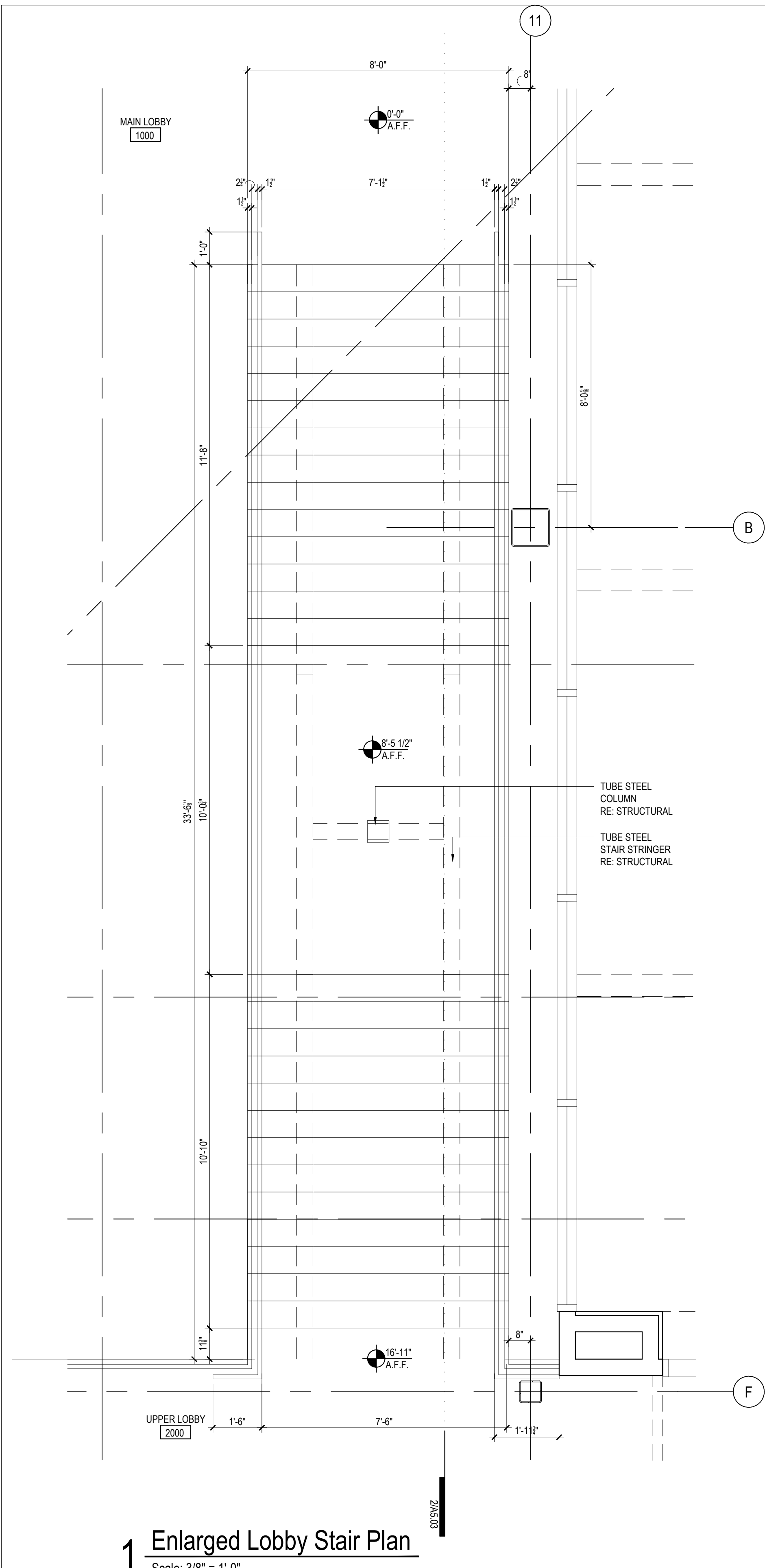
Scale: 3/8" = 1'-0"

Sht Description:

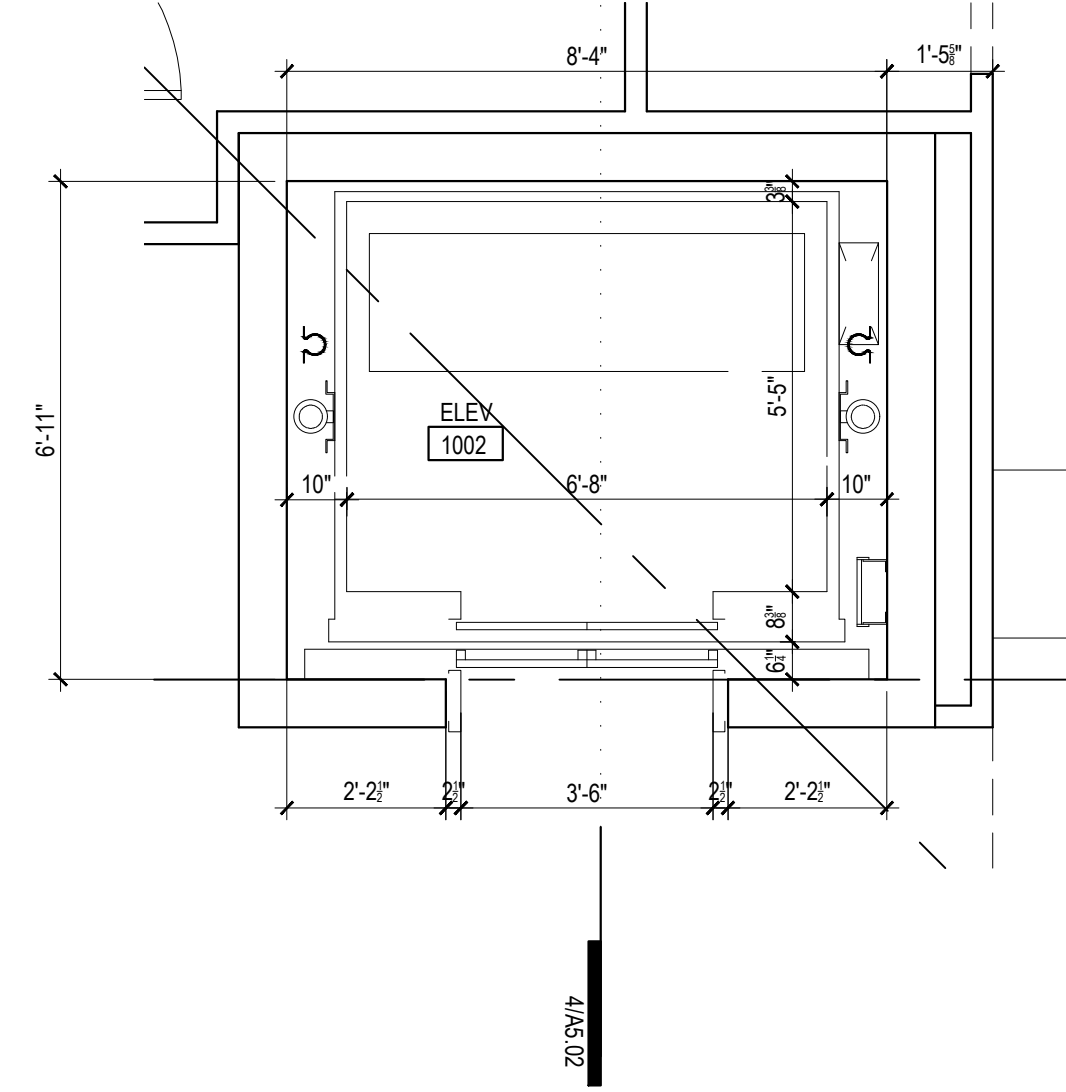
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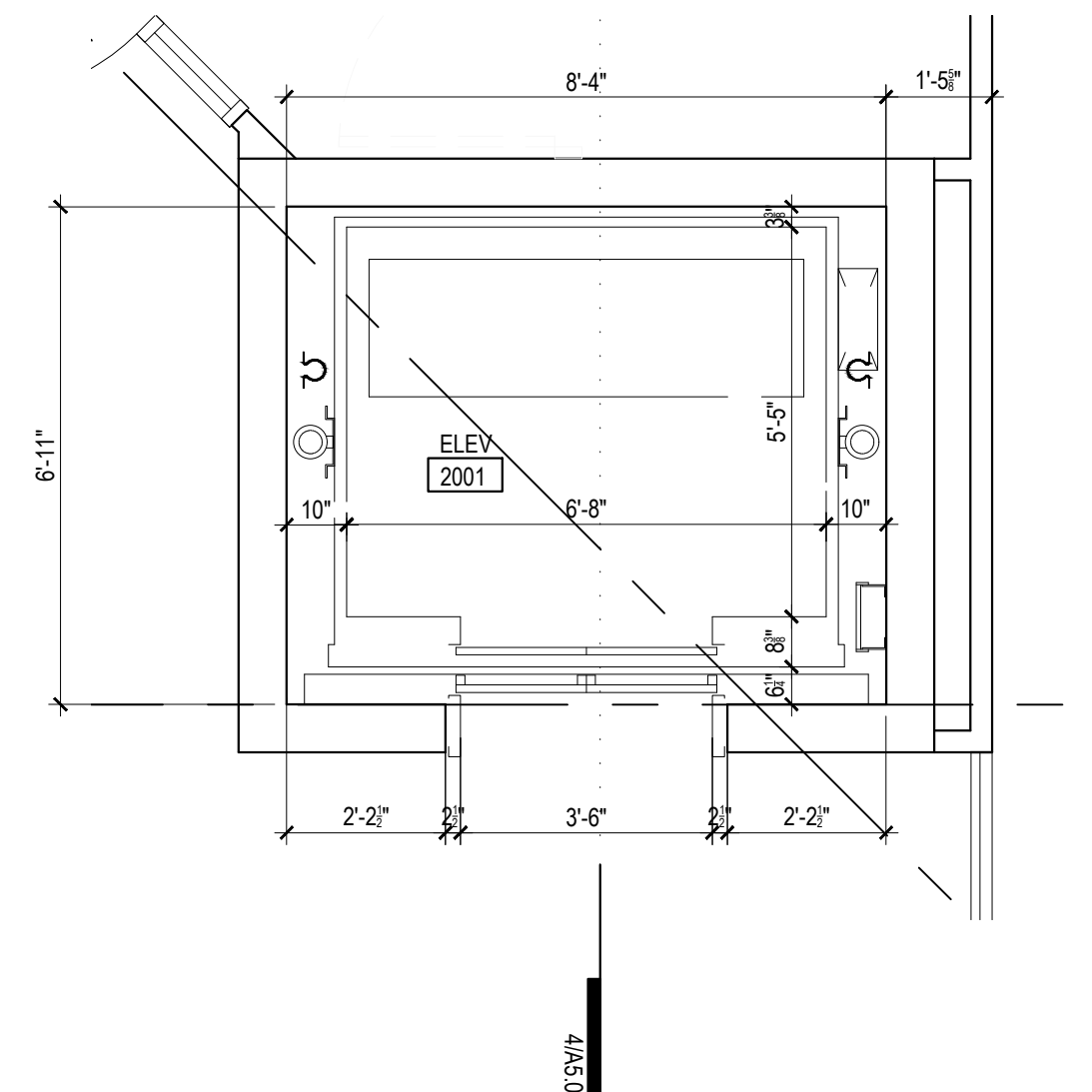
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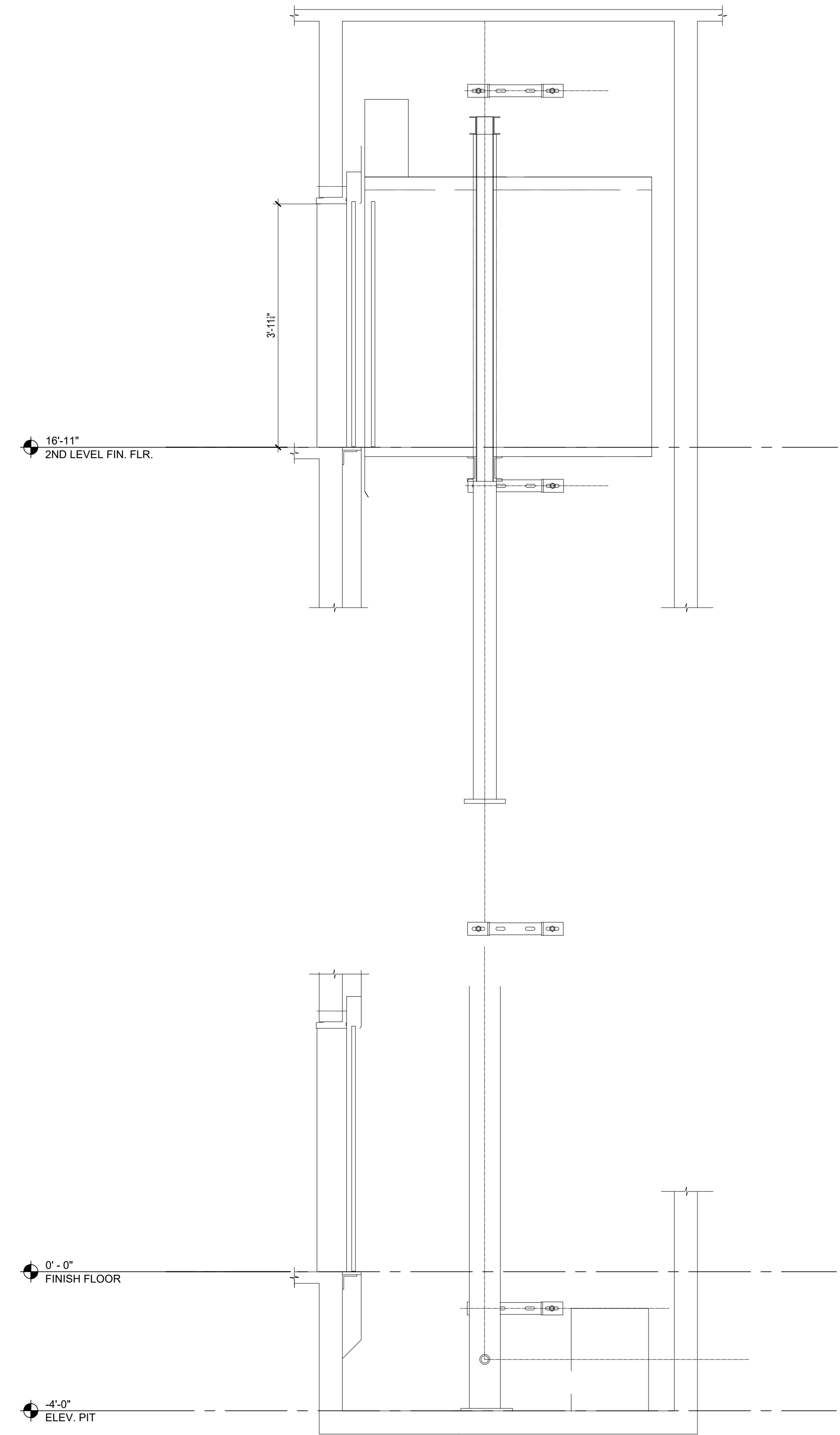
1 Enlarged Lobby Stair Plan
Scale: 3/8" = 1'-0"



2 Enlarged Elevator Plan - 1st Floor
Scale: 3/8" = 1'-0"



3 Enlarged Elevator Plan - 2nd Floor
Scale: 3/8" = 1'-0"



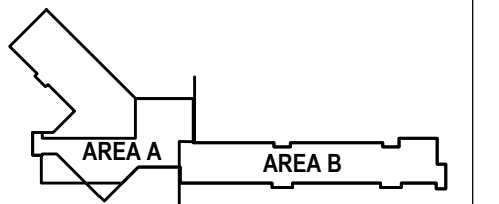
4 Section @ Elevator Shaft
Scale: 3/4" = 1'-0"



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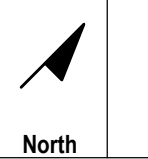


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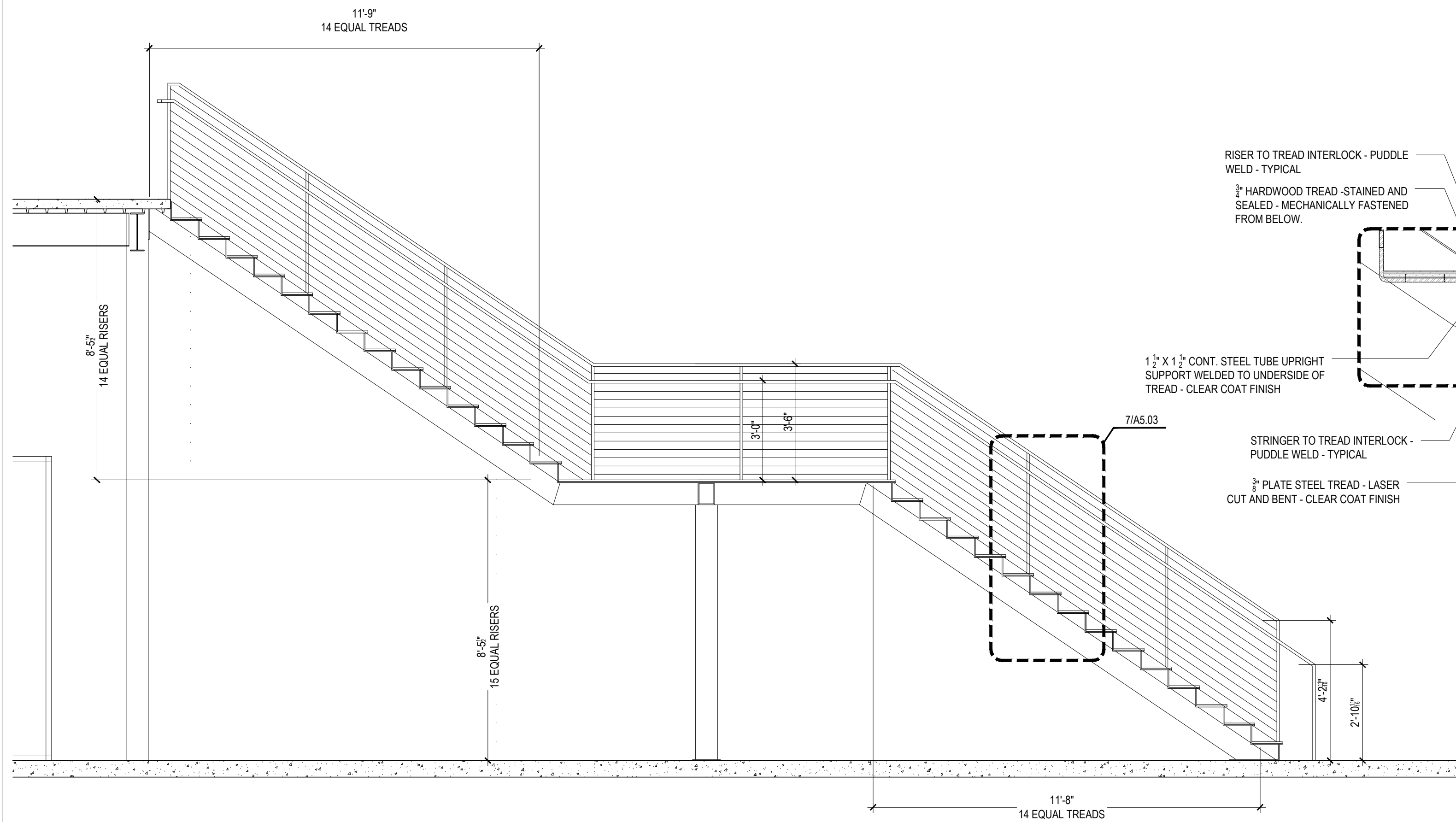
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Shit Description:

Vertical Circulation

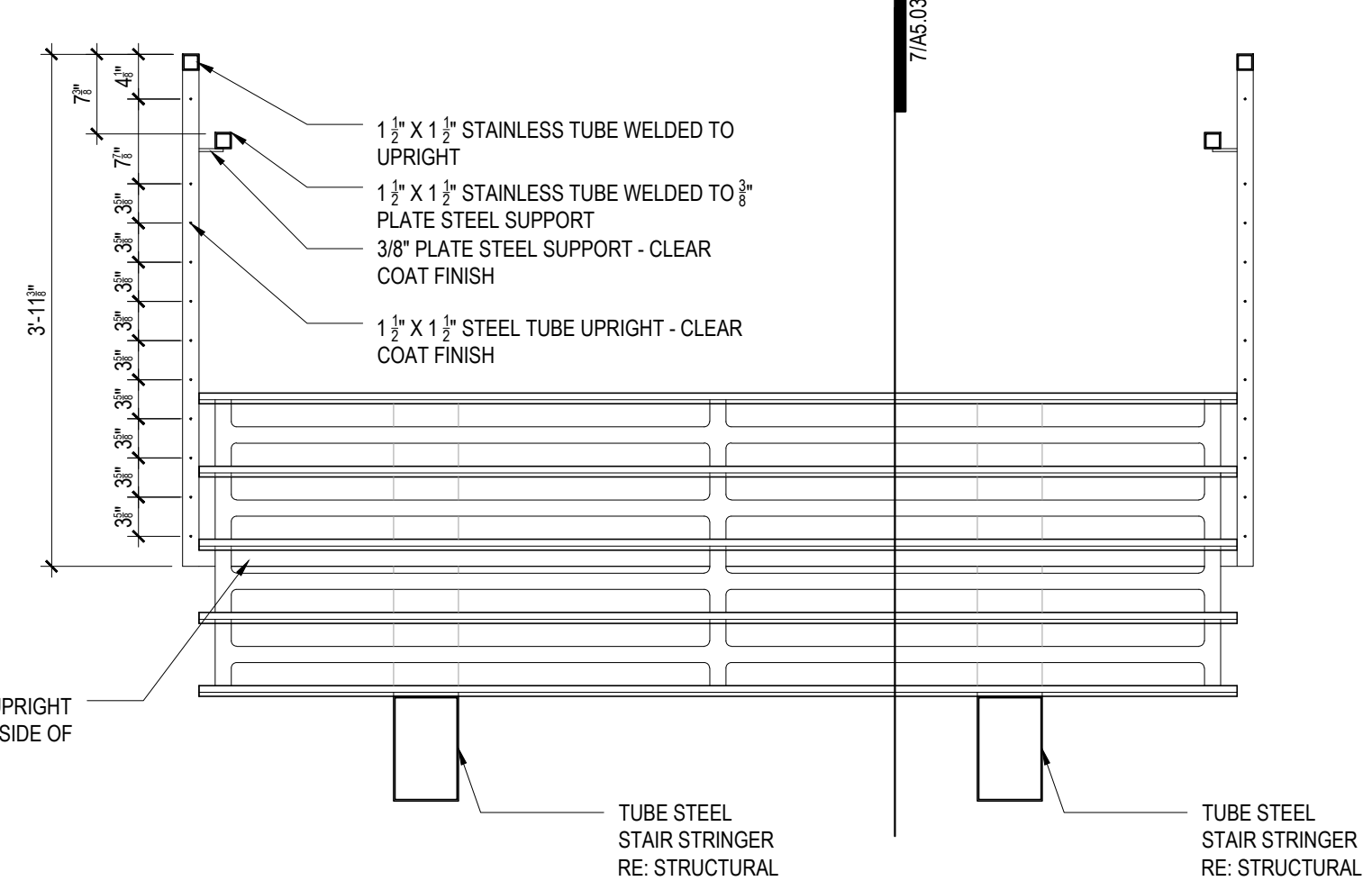


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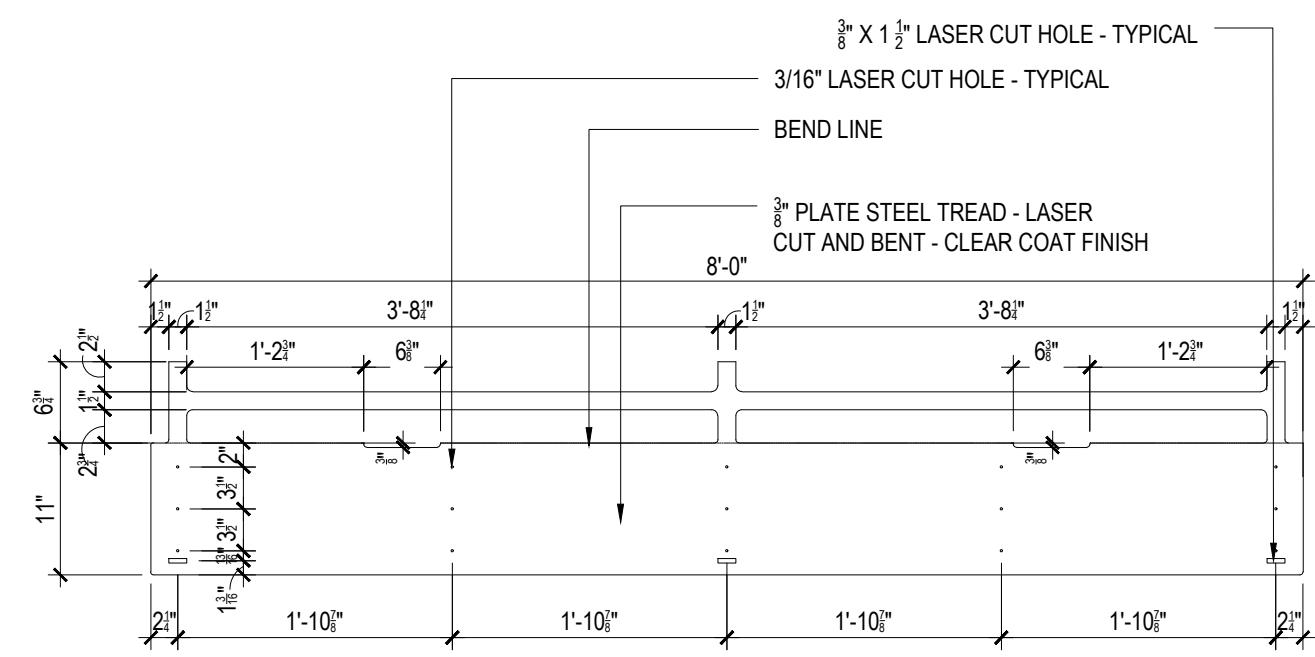


2 Monumental Stair Section
Scale: 3/8" = 1'-0"

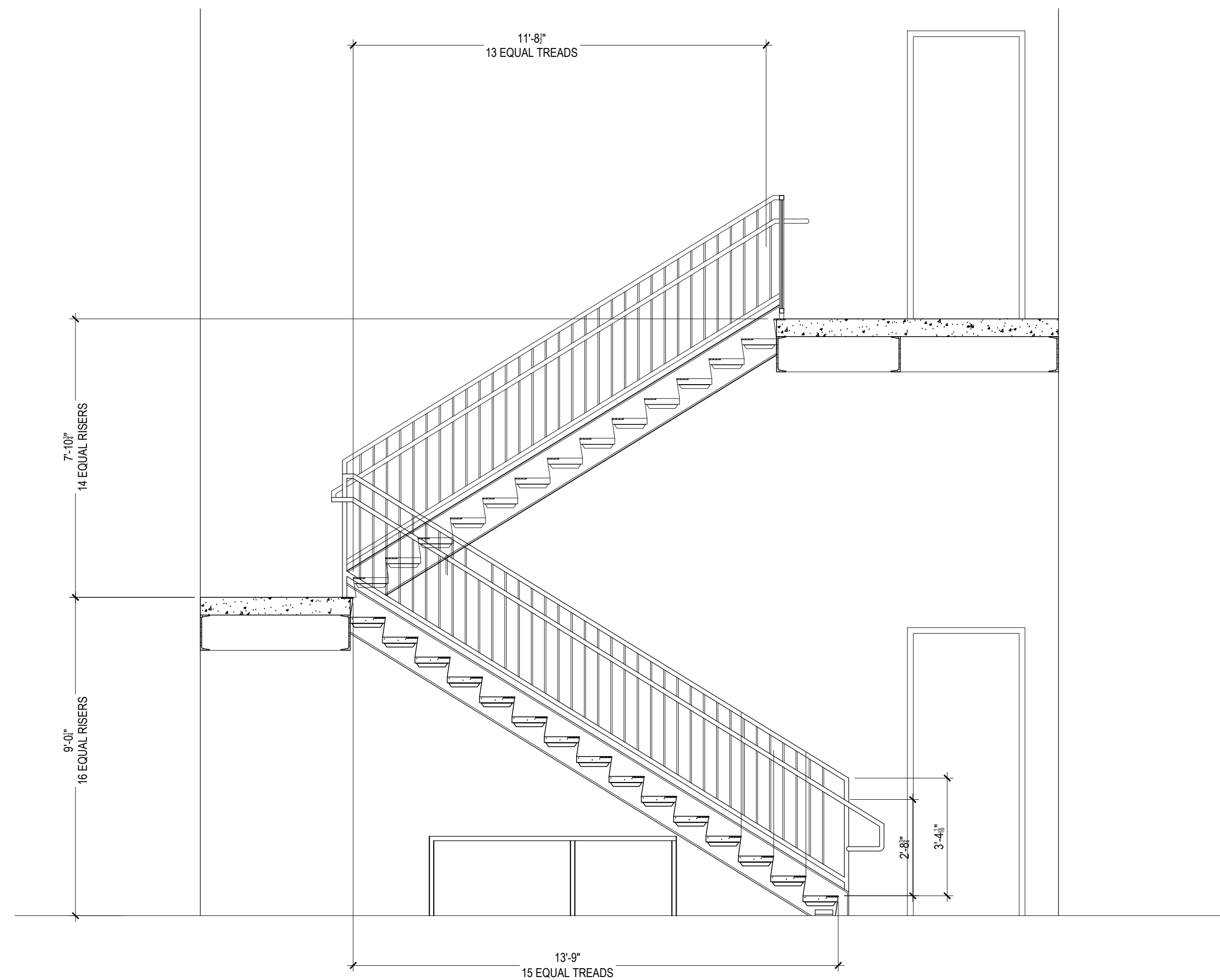
7 Monumental - Enlarged Stair Section
Scale: 3/4" = 1'-0"



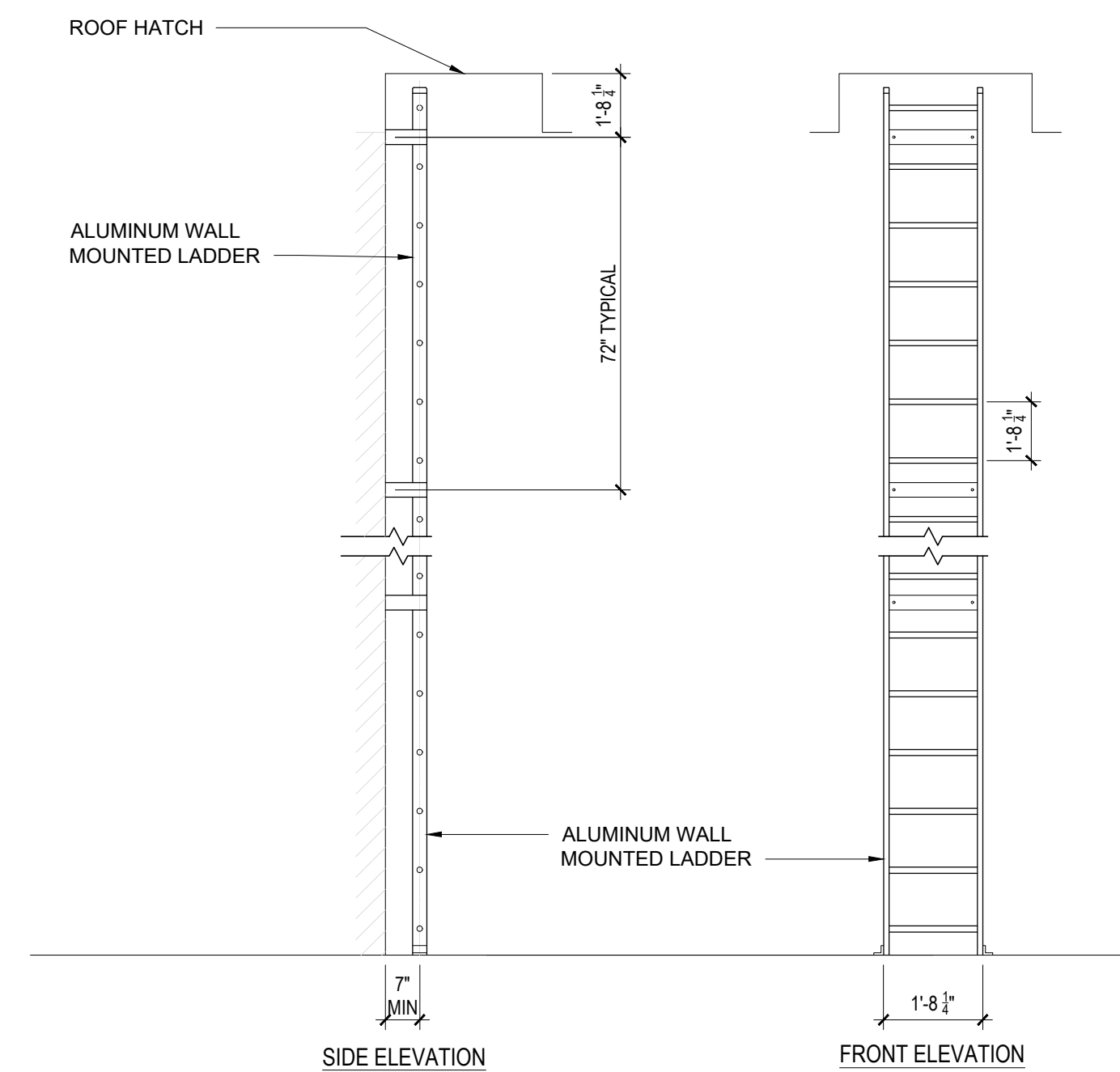
6 Monumental Stair - Elevation
Scale: 3/4" = 1'-0"



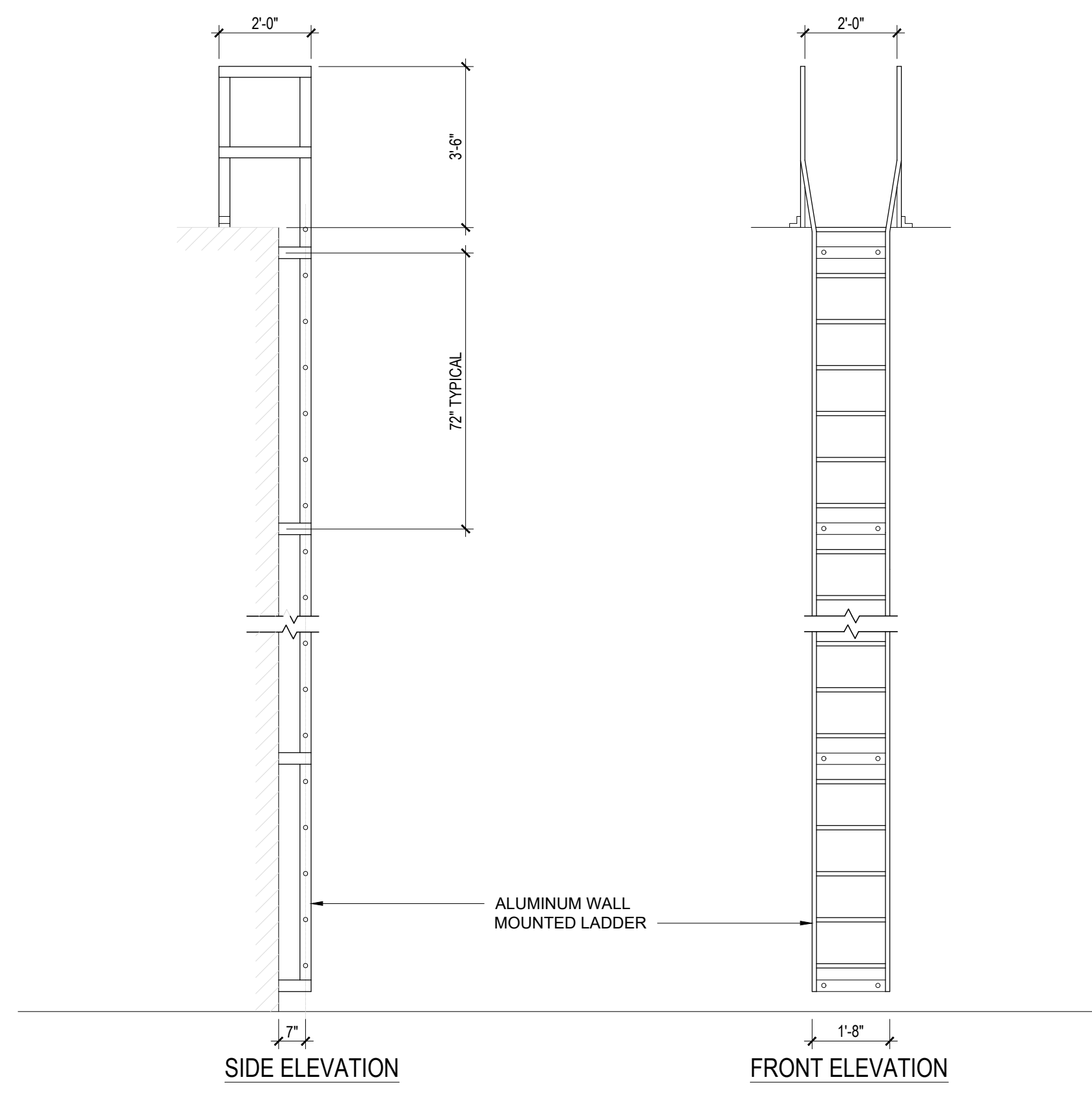
5 Monumental Stair - Tread Layout
Scale: 3/4" = 1'-0"



1 Stair Section
Scale: 3/8" = 1'-0"



3 Roof Access Ladder Detail
Scale: 3/8" = 1'-0"



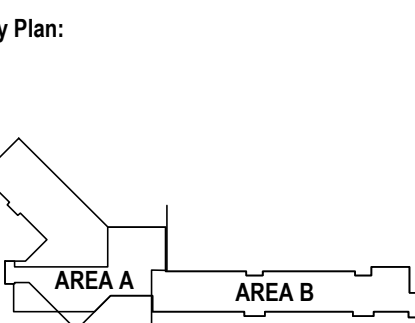
4 Roof Access Ladder Detail
Scale: 3/8" = 1'-0"



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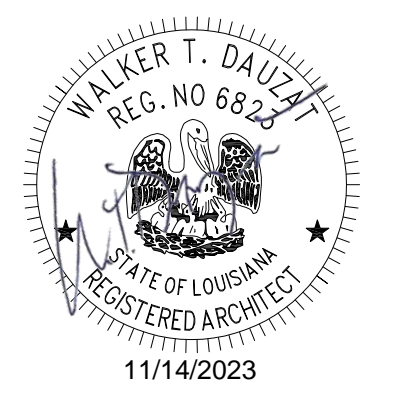


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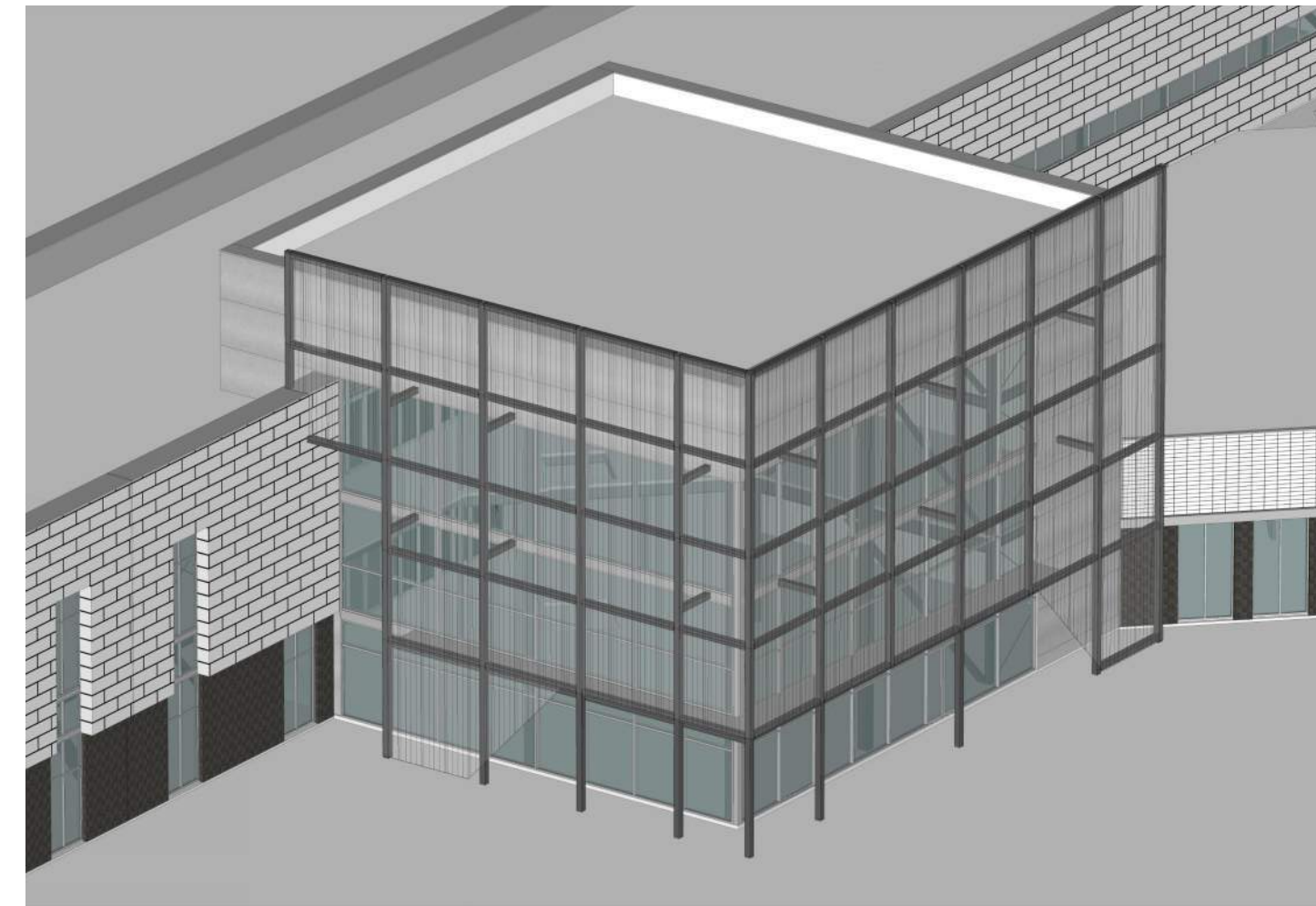
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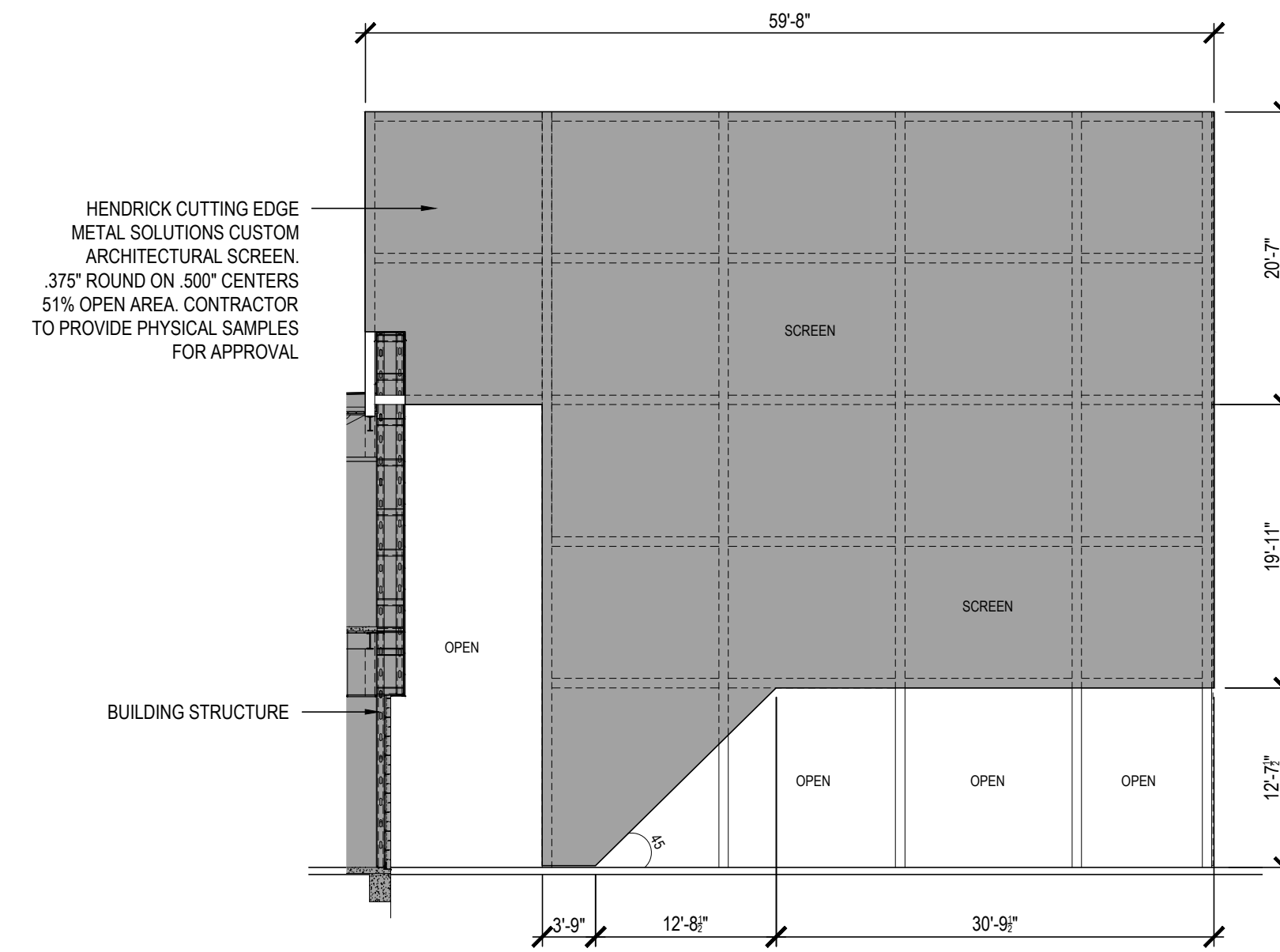


Professional Seal
Scale: 3/8" = 1'-0"
Sht Description:
Vertical Circulation

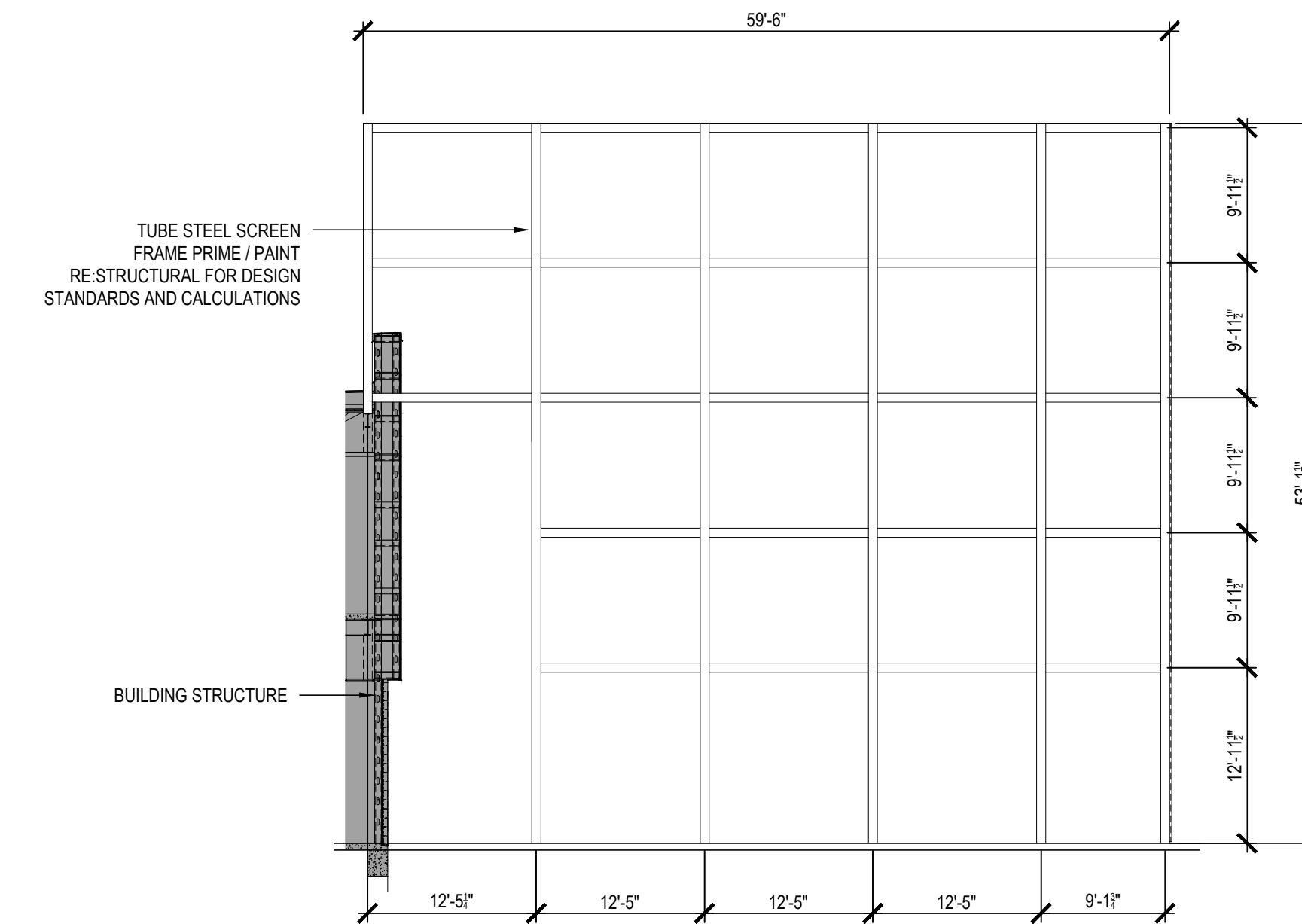
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A5.03



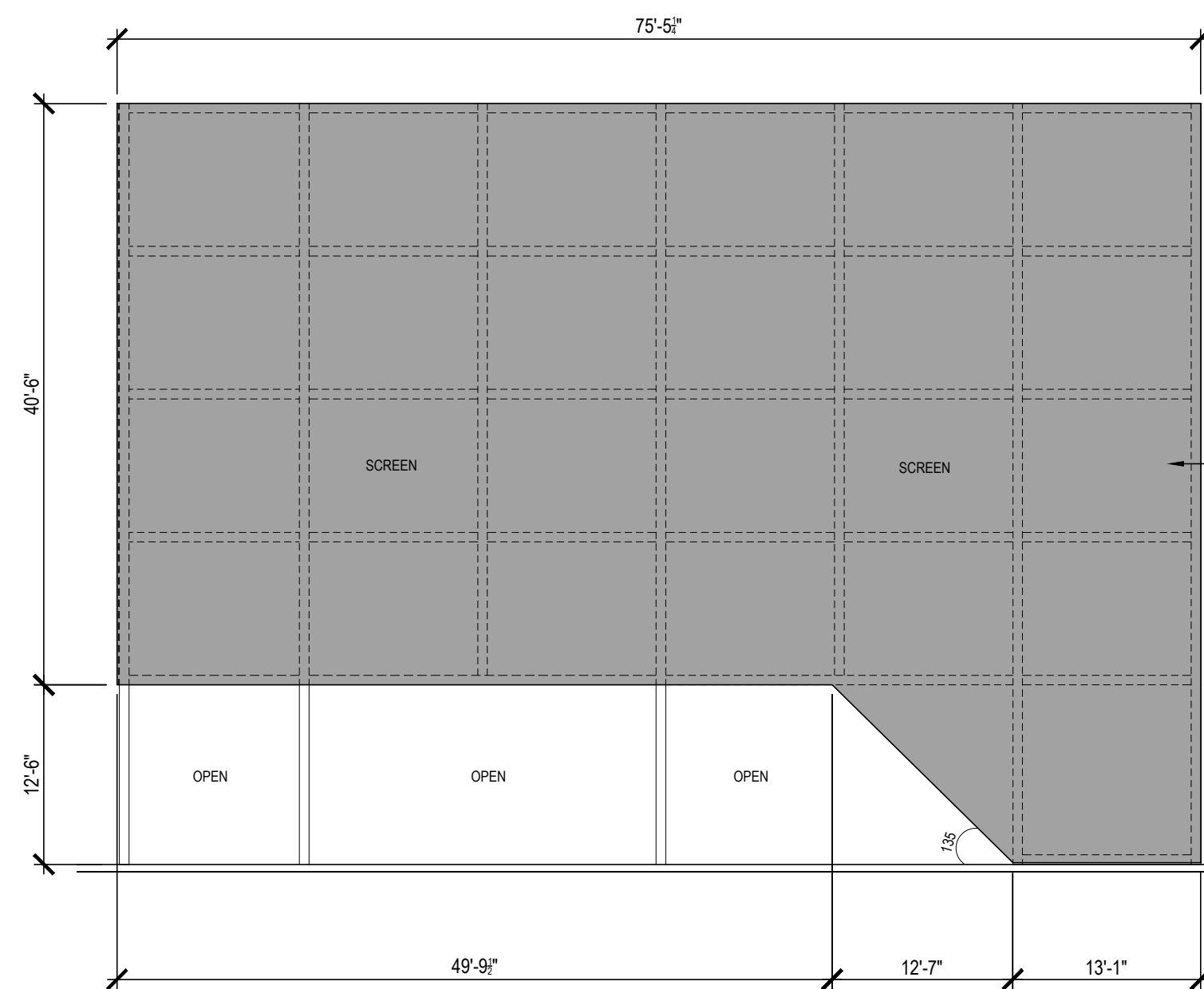
6 Architectural Screen Perspective
Scale: N.T.S



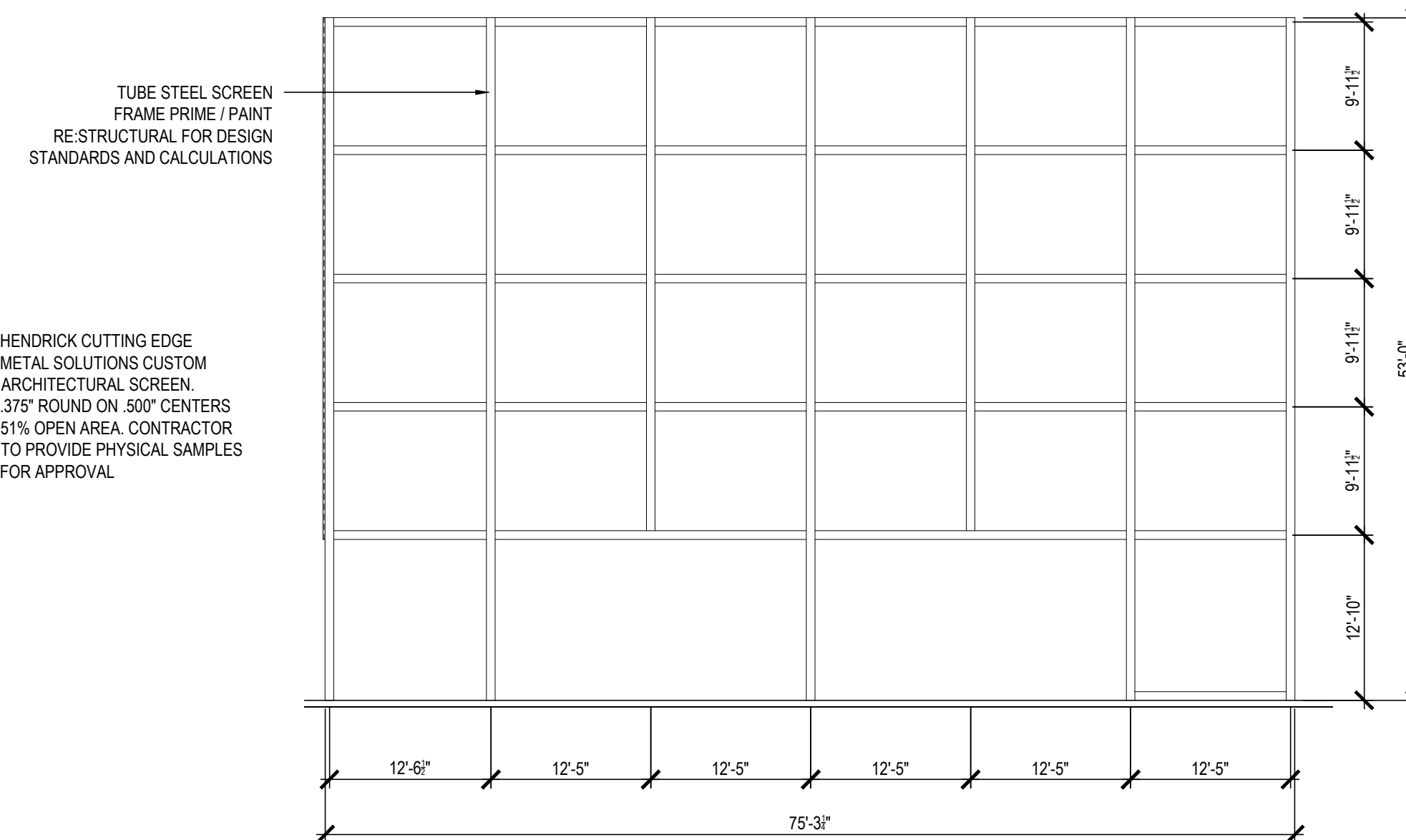
5 Architectural Screen Elevation (Structure) Side - Large
Scale: 3/32" = 1'-0"



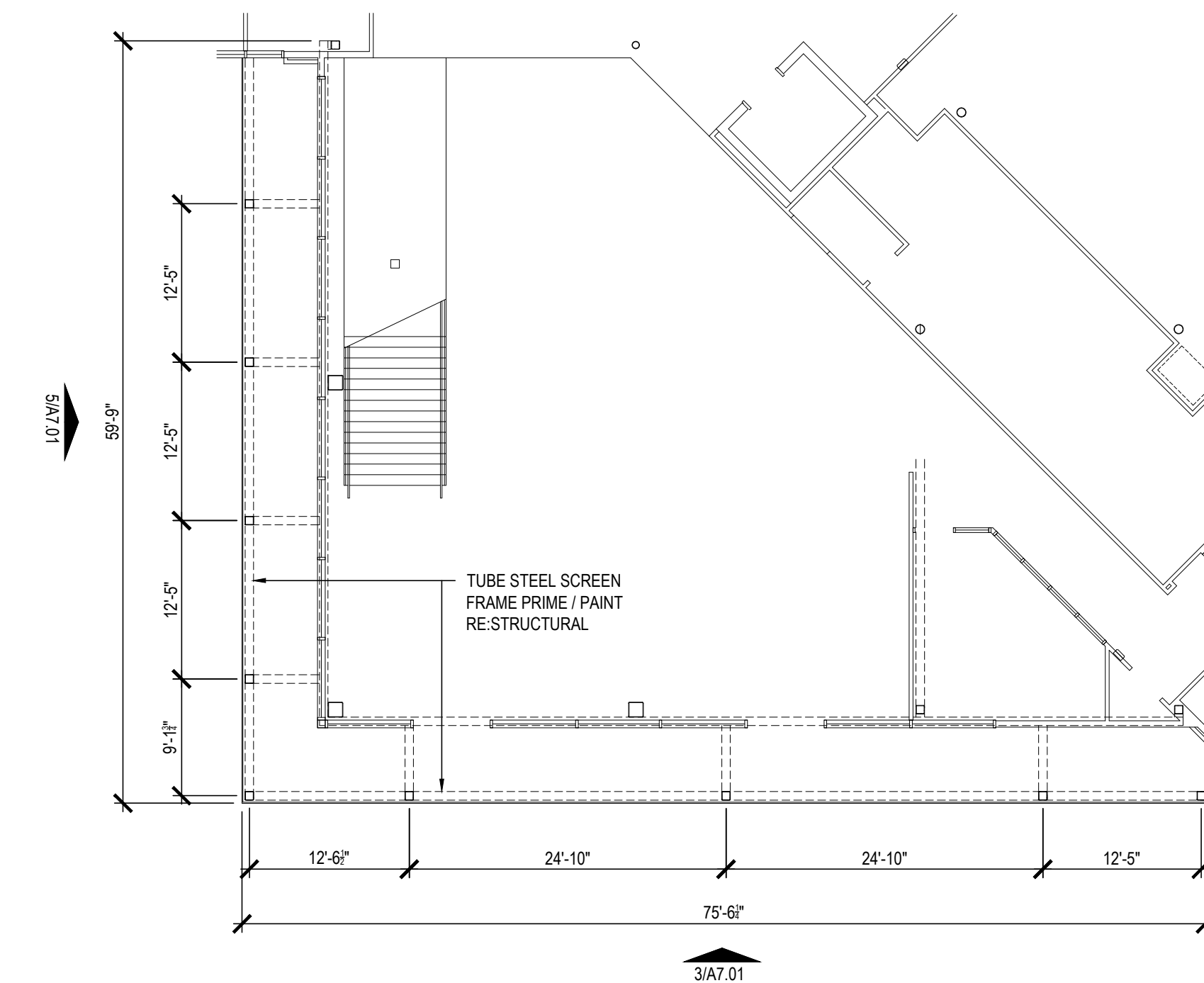
4 Architectural Screen Elevation (Structure) Side - Large
Scale: 3/32" = 1'-0"



3 Architectural Screen Elevation Front - Large
Scale: 3/32" = 1'-0"



2 Architectural Screen Elevation (Structure) Front - Large
Scale: 3/32" = 1'-0"



1 Architectural Screen Plan - Large
Scale: 3/32" = 1'-0"

SHEET NOTES:

- SCREEN MANUFACTURER TO PROVIDE ALL ASSOCIATED TRIM, EDGE TRIM, ETC. EDGE TRIM TO BE PROVIDED AT ALL INSIDE AND OUTSIDE CORNERS AND ANGLES CUTS
- FASTENER PATTERN - COORDINATE WITH ARCHITECT ON SITE PRIOR TO INSTALLING
- REFER TO STRUCTURAL DRAWINGS FOR SCREEN FRAME DESIGN, CALCULATIONS, AND STANDARDS
- ARCHITECT TO SELECT FROM FULL RANGE OF COLORS AND FINISHES

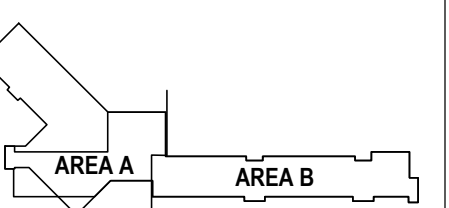


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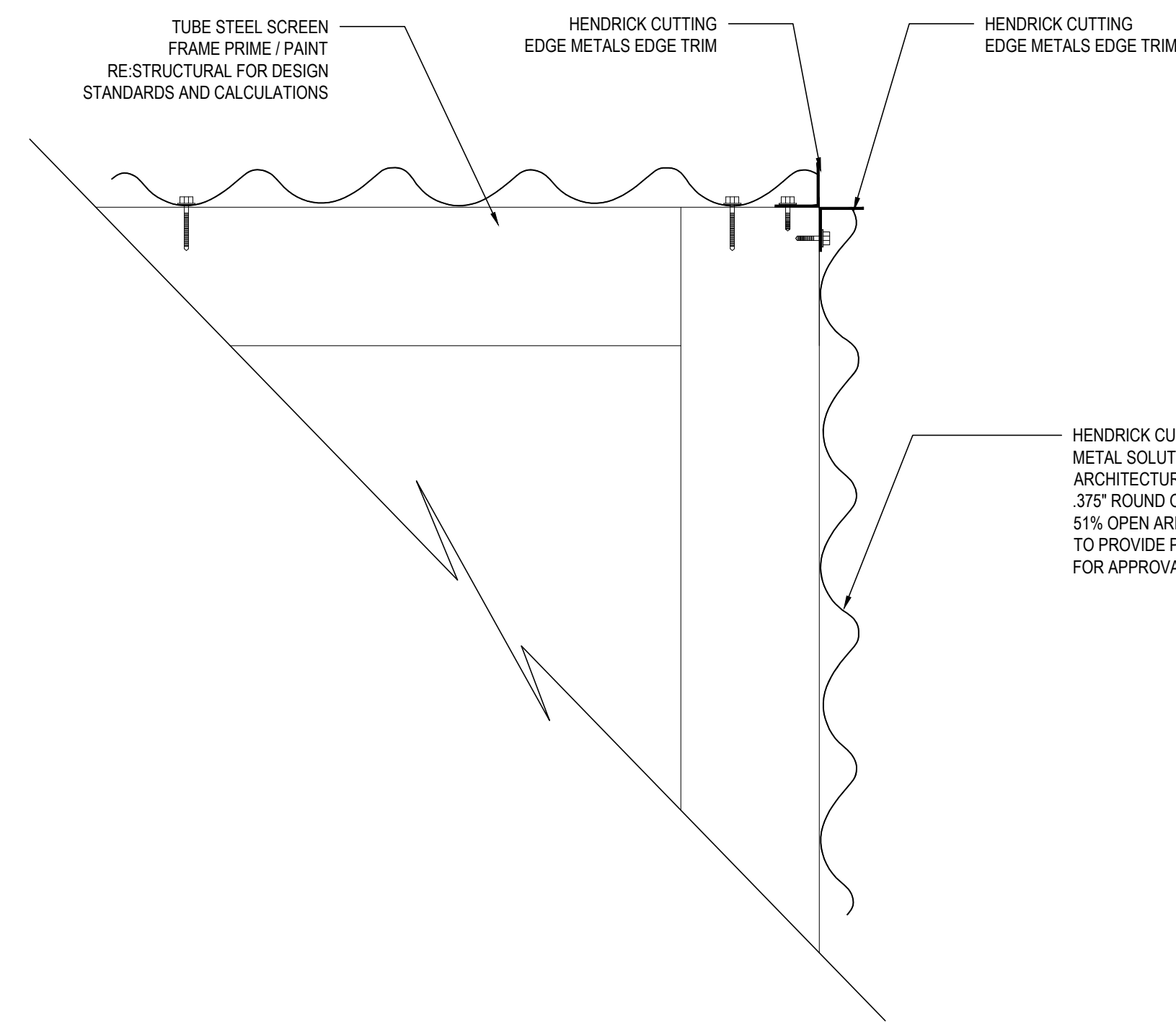


Professional Seal
Scale: 1/4" = 1'-0"
Sht Description:
Architectural Screen - Large

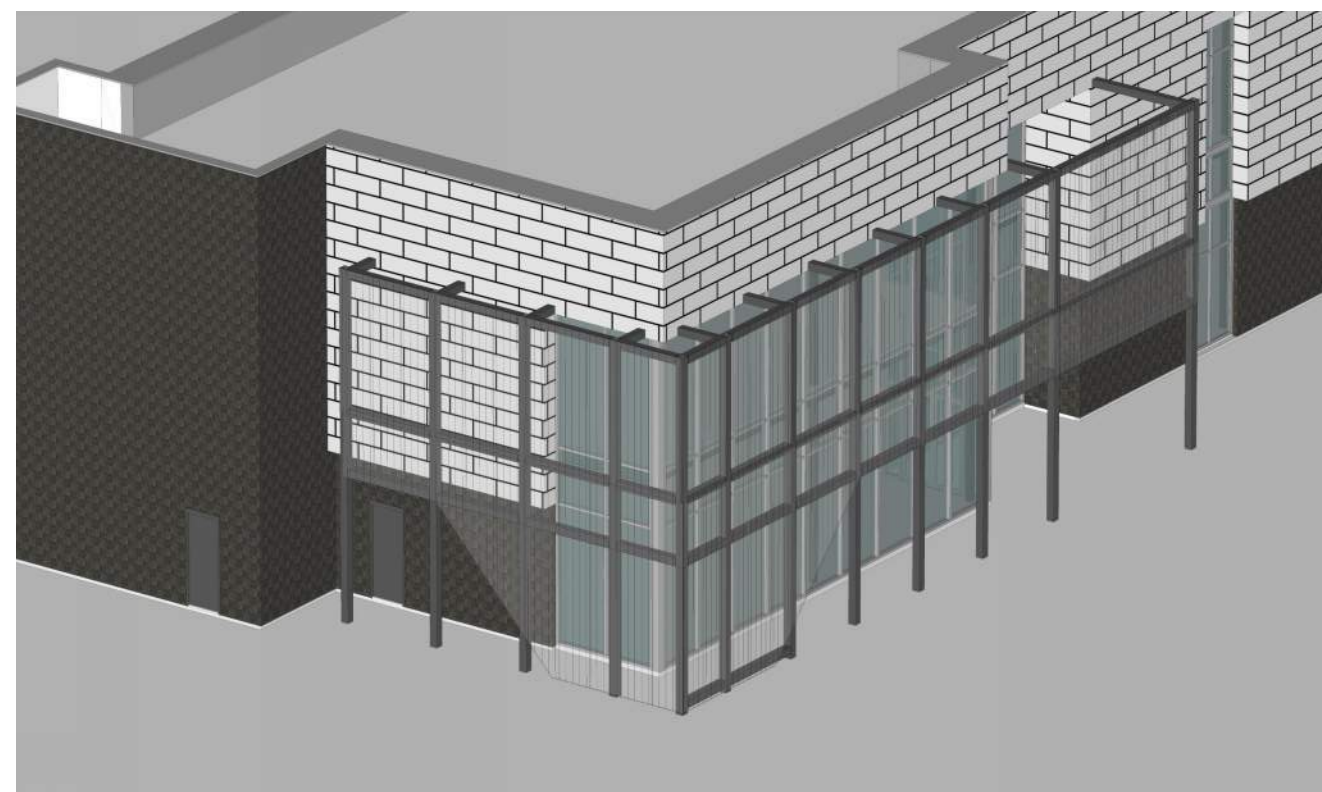
North
A7.01

SHEET NOTES:

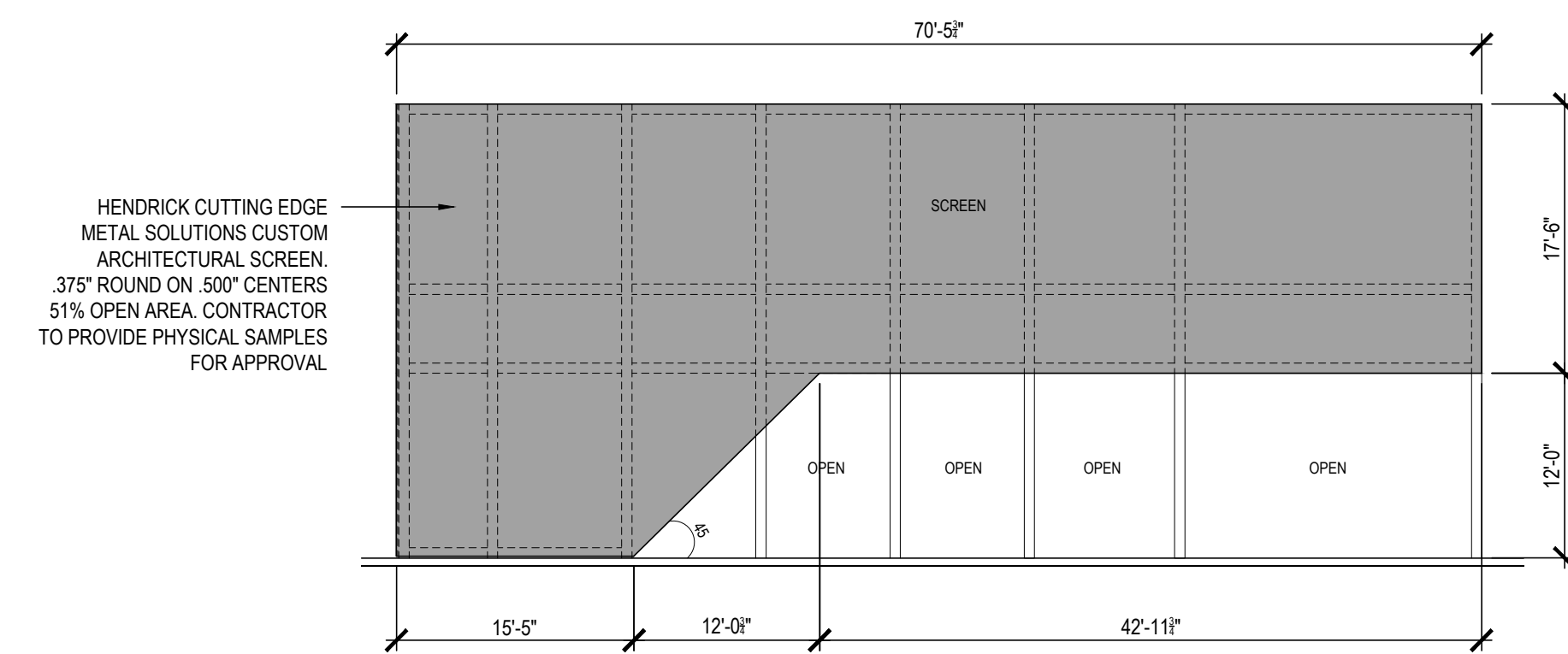
- SCREEN MANUFACTURER TO PROVIDE ALL ASSOCIATED TRIM, EDGE TRIM, ETC.
- EDGE TRIM TO BE PROVIDED AT ALL INSIDE AND OUTSIDE CORNERS AND ANGLES CUTS
- FASTENER PATTERN - COORDINATE WITH ARCHITECT ON SITE PRIOR TO INSTALLING
- REFER TO STRUCTURAL DRAWINGS FOR SCREEN FRAME DESIGN, CALCULATIONS, AND STANDARDS
- ARCHITECT TO SELECT FROM FULL RANGE OF COLORS AND FINISHES



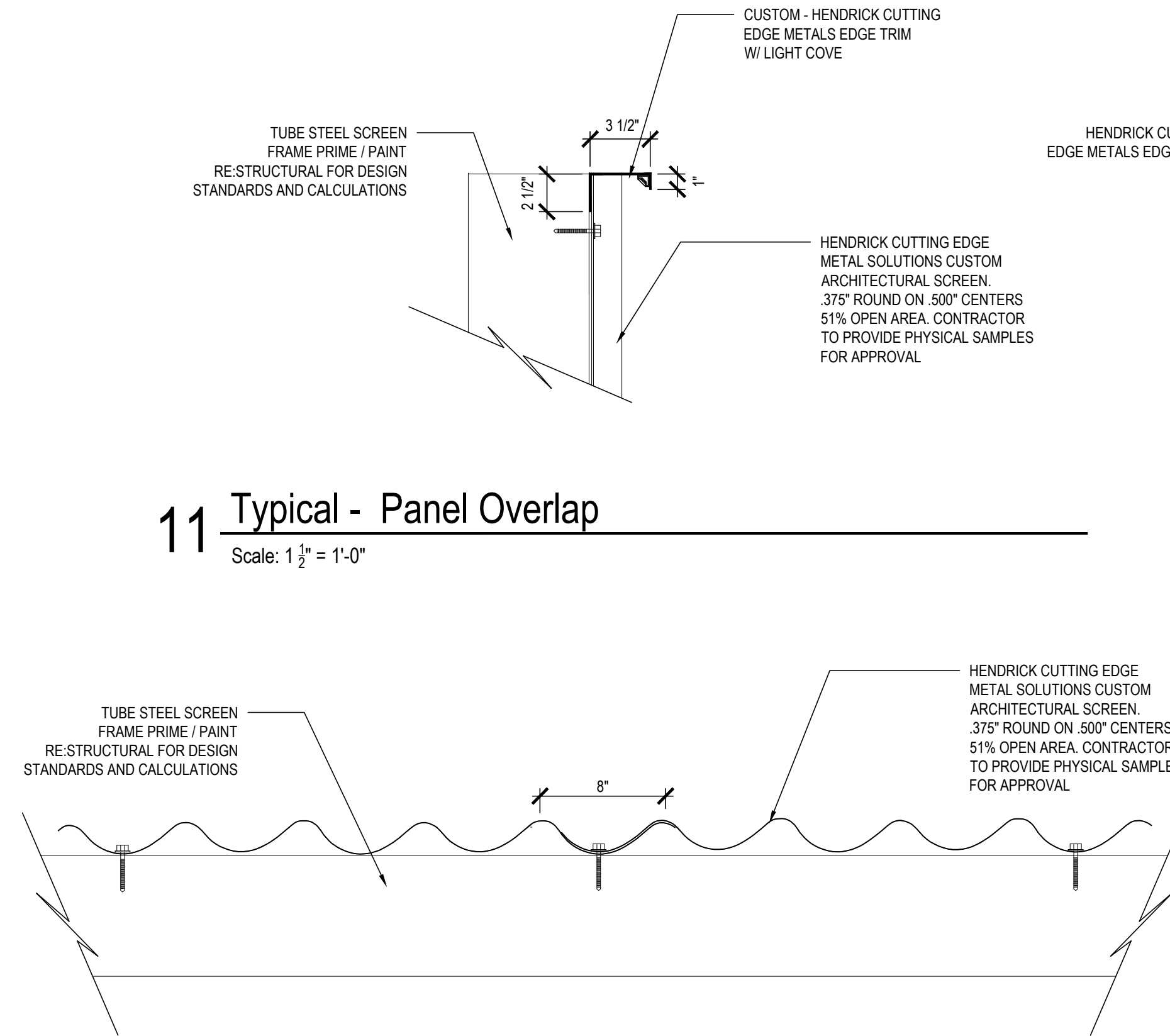
9 Typical - Panel Outside Corner - Trim
Scale: 1/2" = 1'-0"



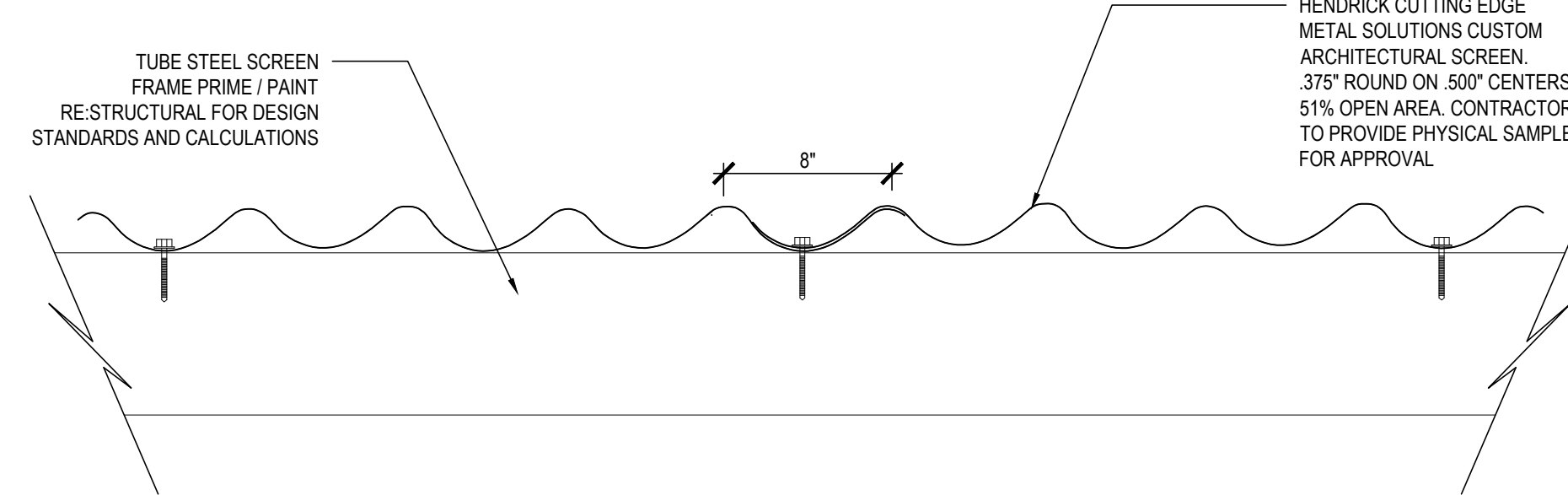
6 Architectural Screen Perspective - Small
Scale: N.T.S.



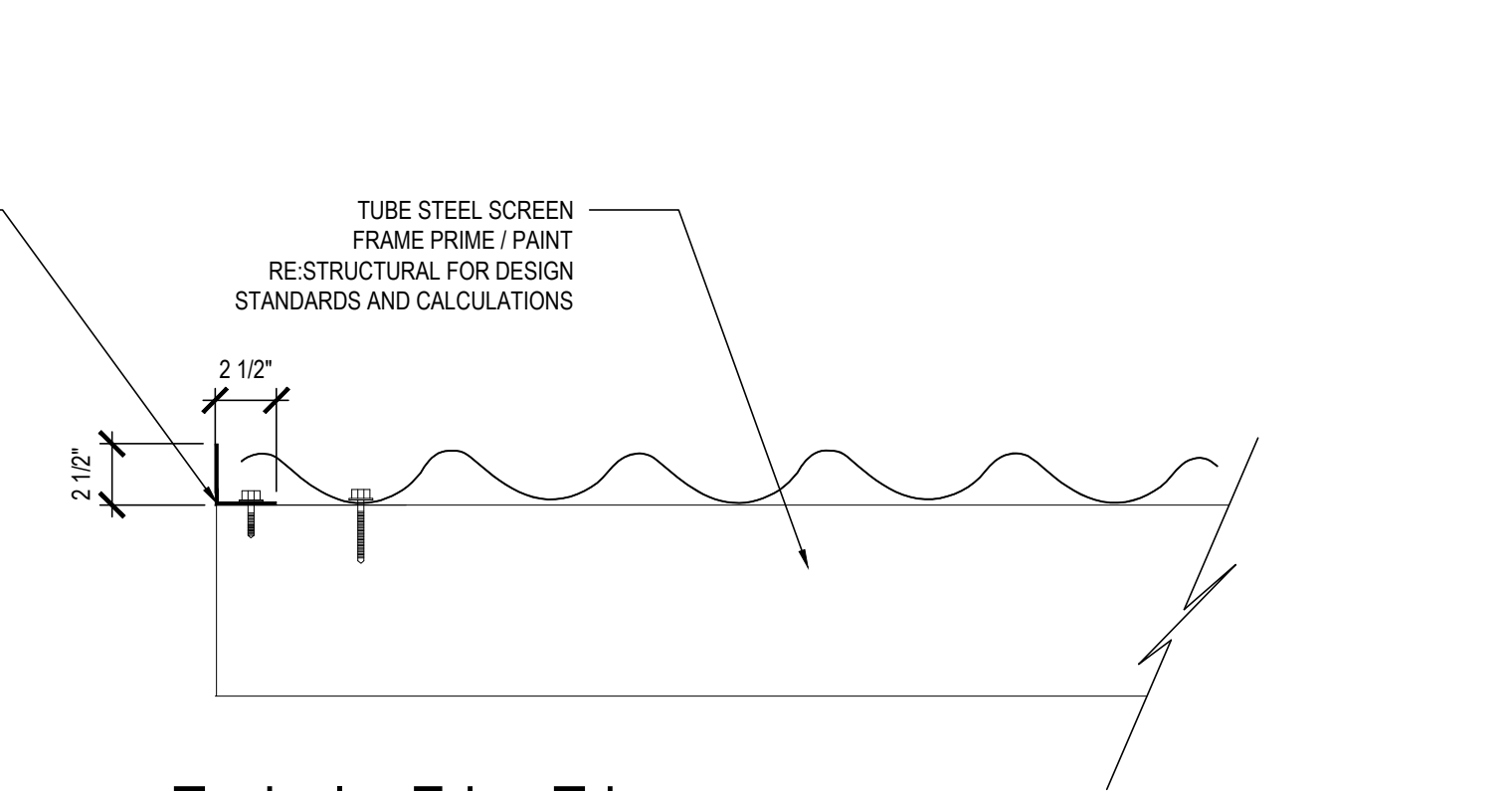
3 Architectural Screen Elevation Front - Small
Scale: 3/32" = 1'-0"



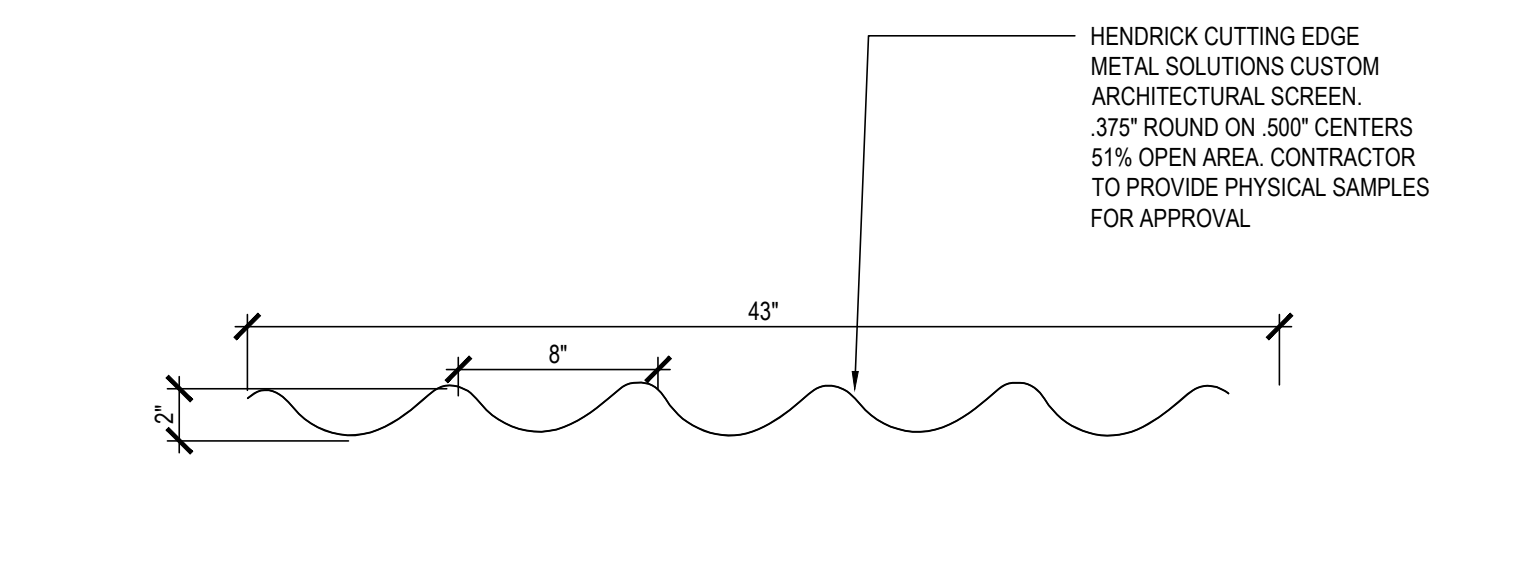
11 Typical - Panel Overlap
Scale: 1/2" = 1'-0"



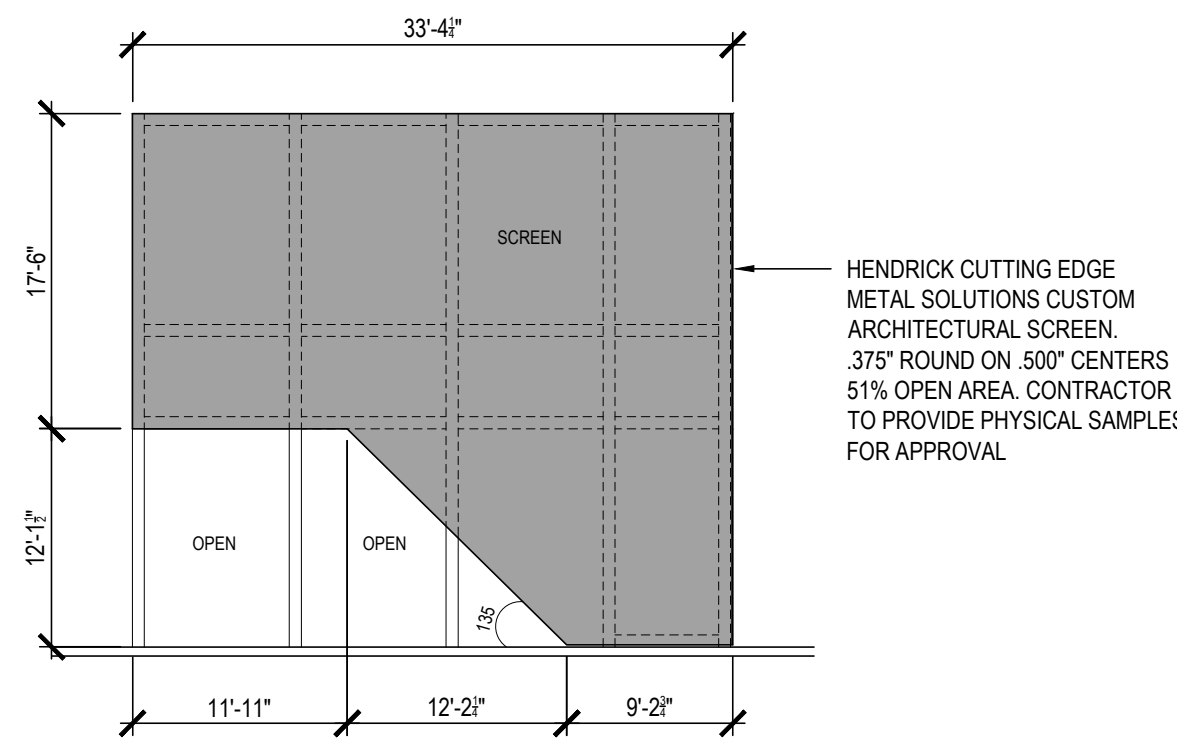
8 Typical - Panel Overlap
Scale: 1/2" = 1'-0"



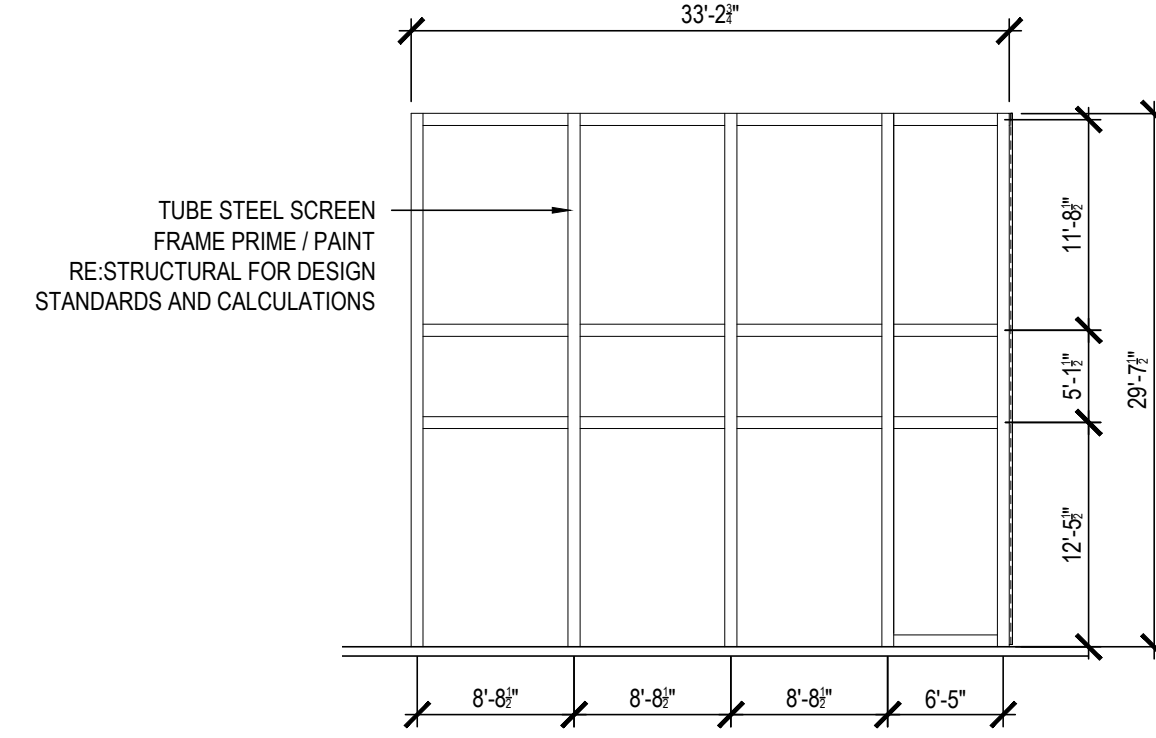
10 Typical - Edge Trim
Scale: 1/2" = 1'-0"



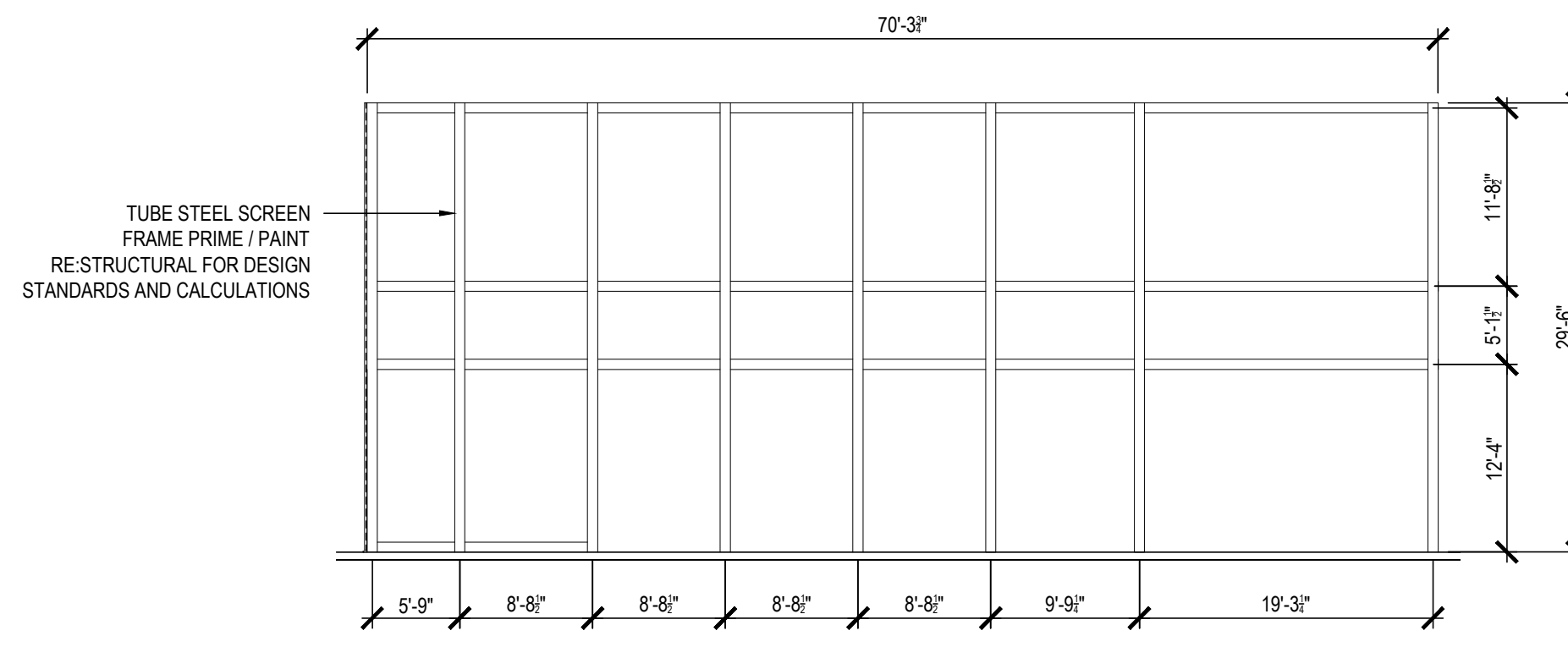
7 Typical - BWW 400 - Perforated Panel Profile
Scale: 1/2" = 1'-0"



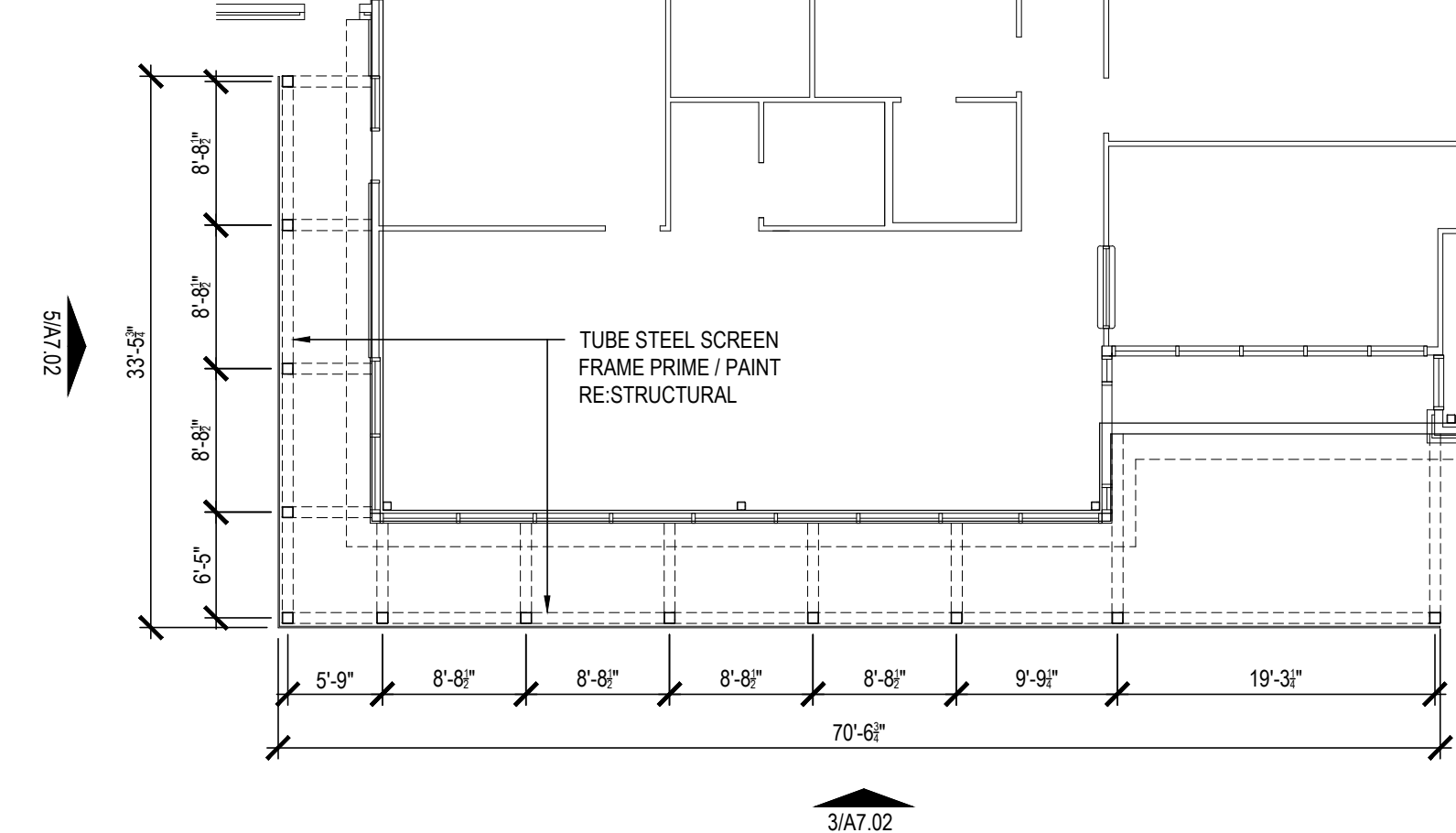
5 Architectural Screen Elevation (Structure) Side - Small
Scale: 3/32" = 1'-0"



4 Architectural Screen Elevation Side - Small
Scale: 3/32" = 1'-0"



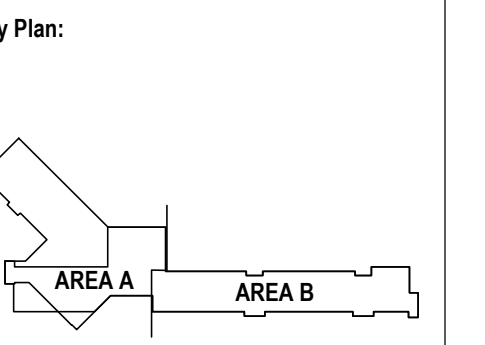
2 Architectural Screen Elevation (Structure) Front - Small
Scale: 3/32" = 1'-0"



1 Architectural Screen Plan - Small
Scale: 3/32" = 1'-0"



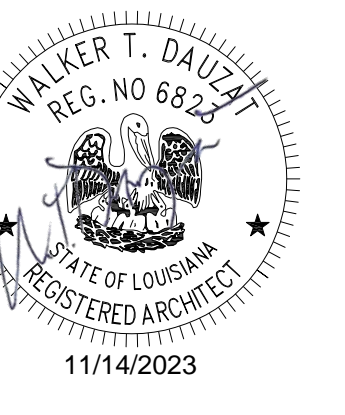
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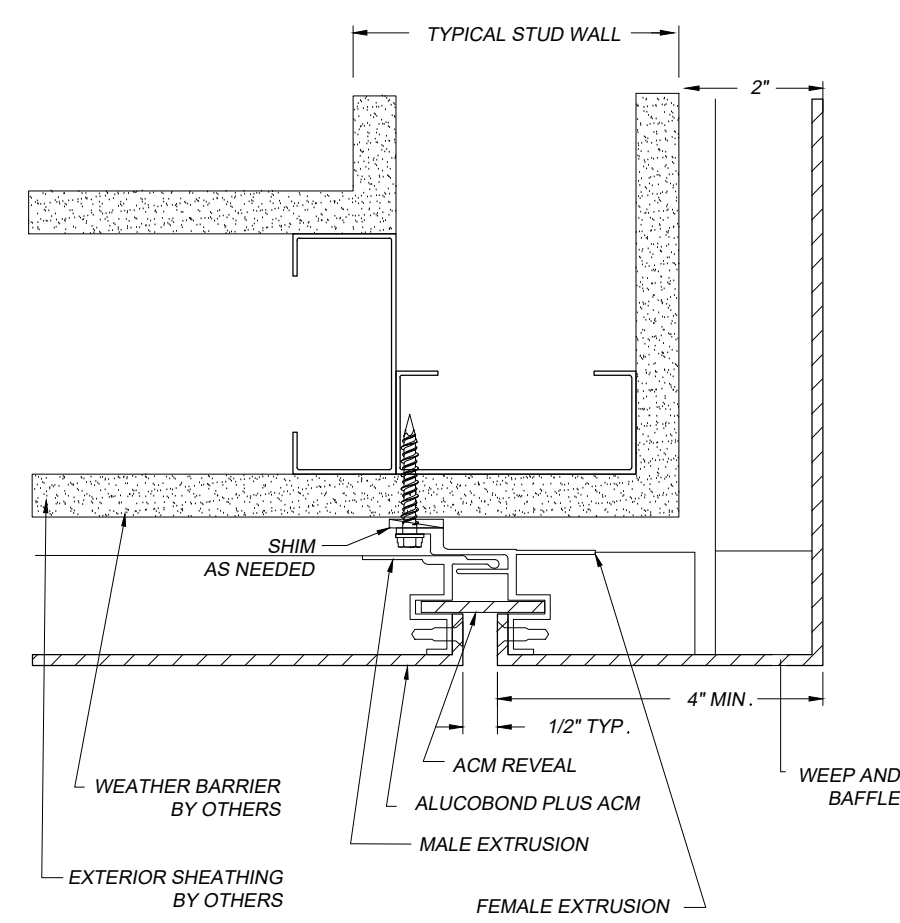
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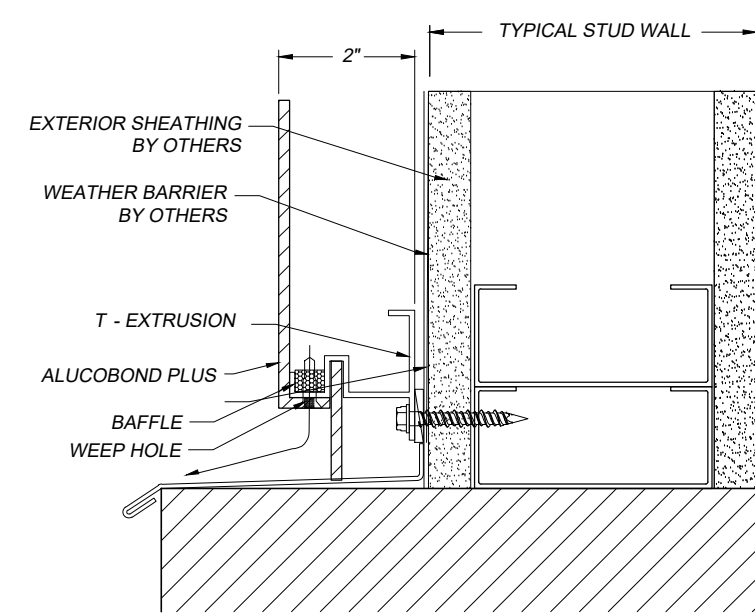


Professional Seal
Scale: 1/4" = 1'-0"
Sht Description:
Architectural Screen - Small

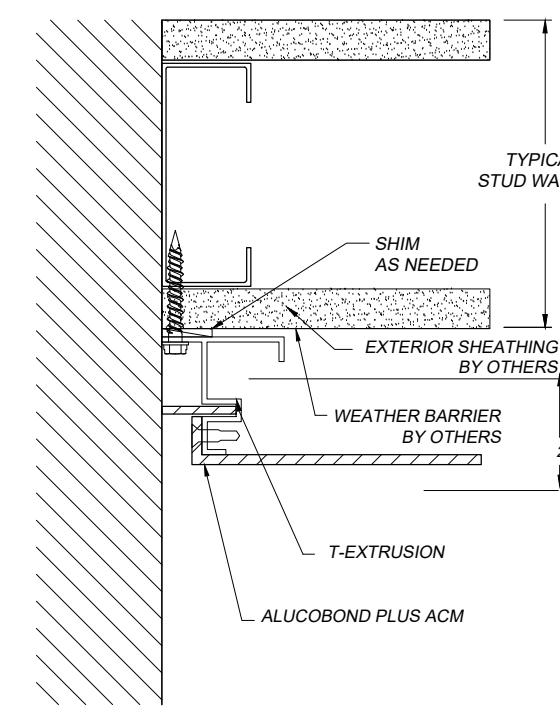
North
A7.02



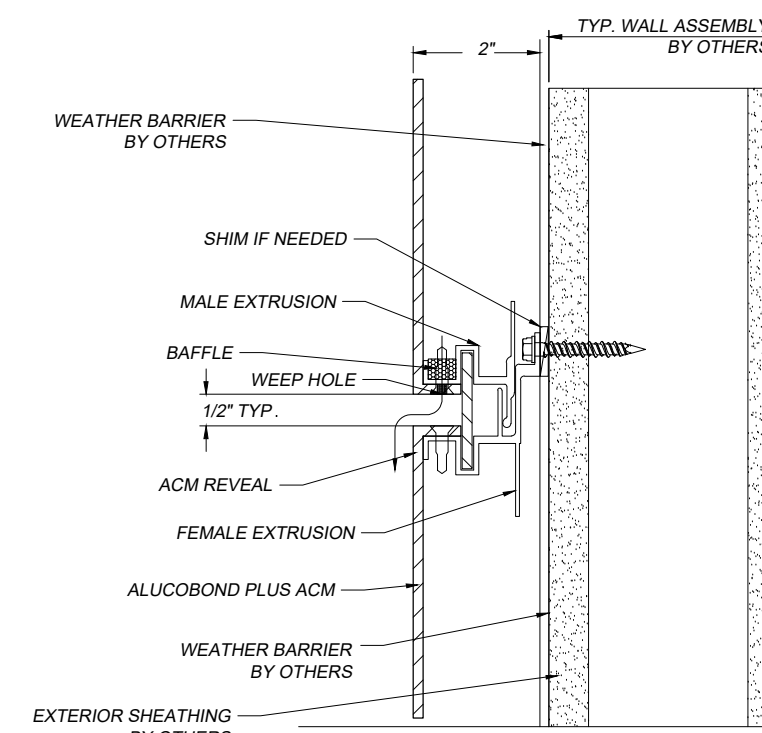
8 ALUCOBOND-OUTSIDE CORNER DETAIL
Scale: N.T.S



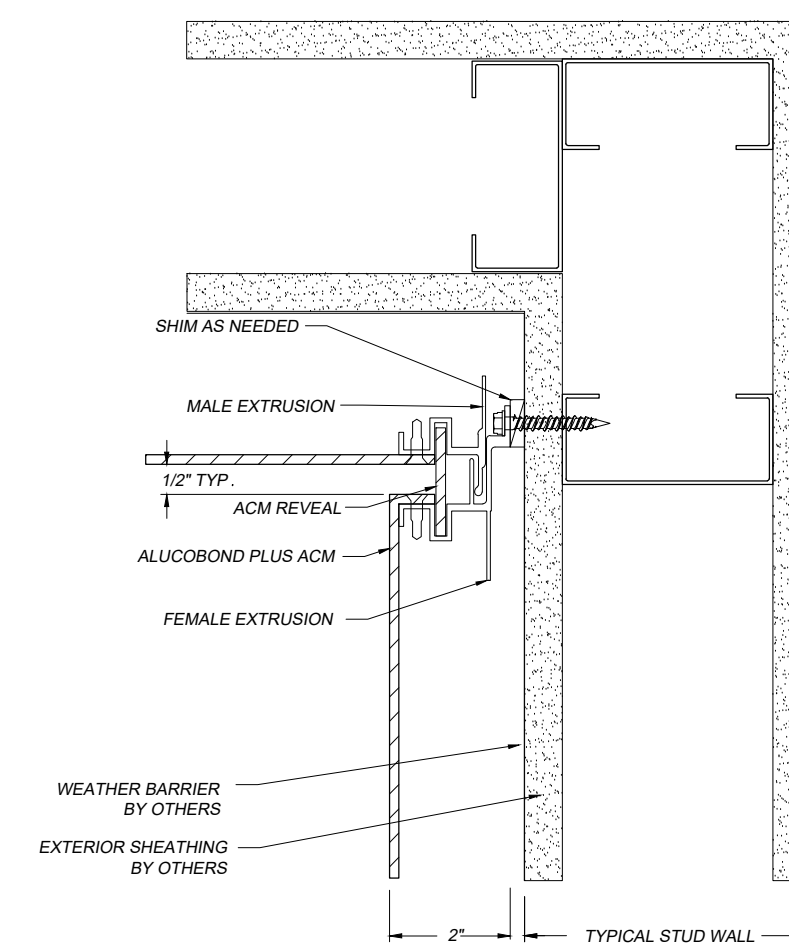
7 ALUCOBOND-BASE CONDITION DETAIL
Scale: N.T.S



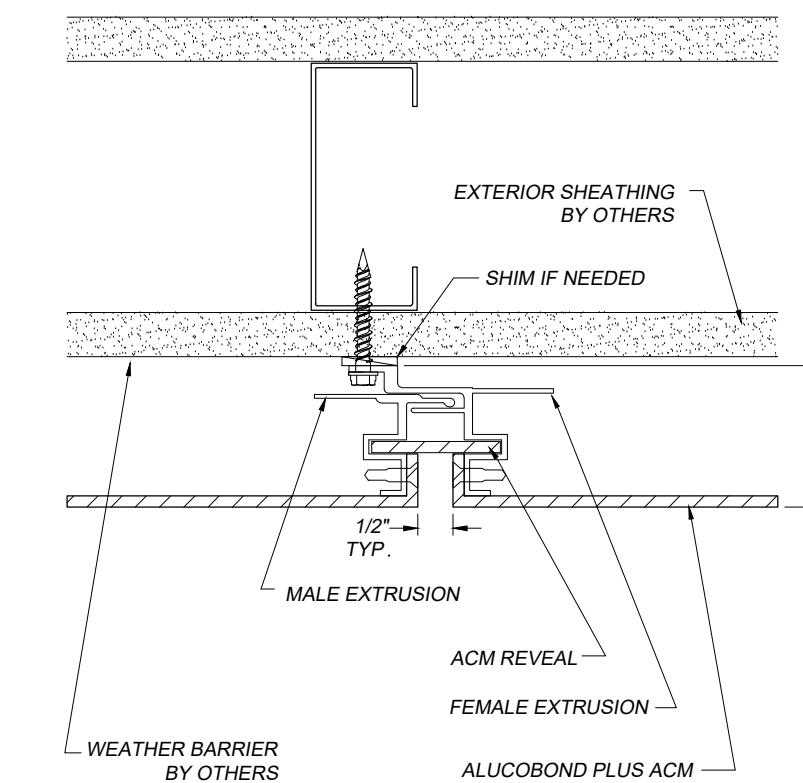
10 ALUCOBOND-ENDWALL DETAIL
Scale: N.T.S



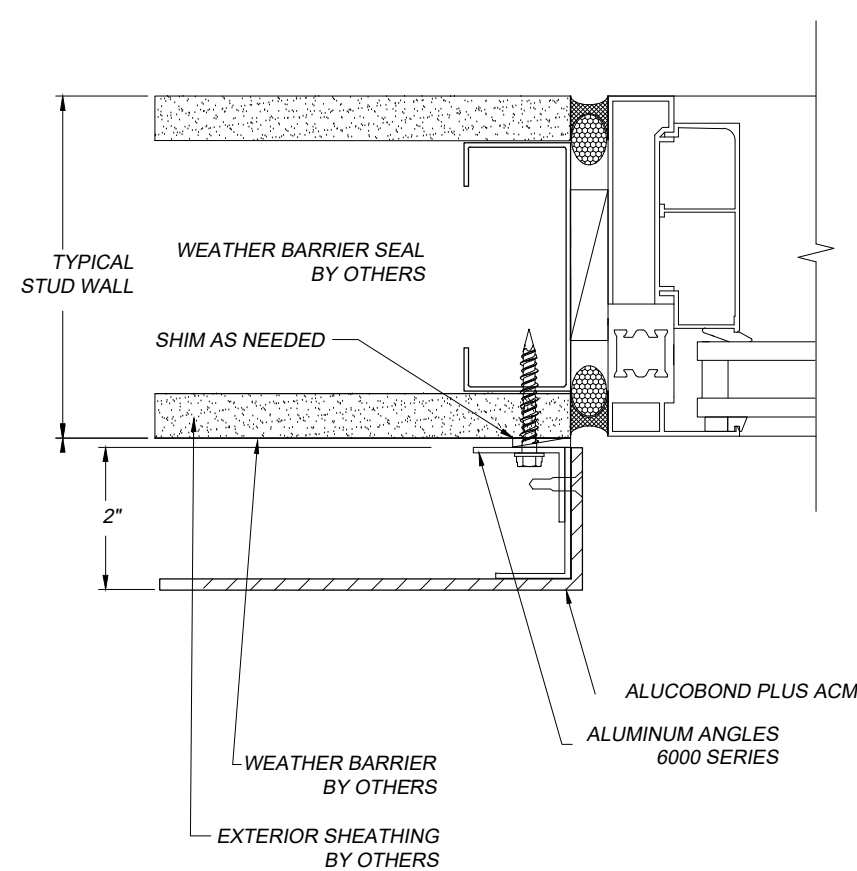
6 ALUCOBOND HORIZONTAL JOINT DETAIL
Scale: N.T.S



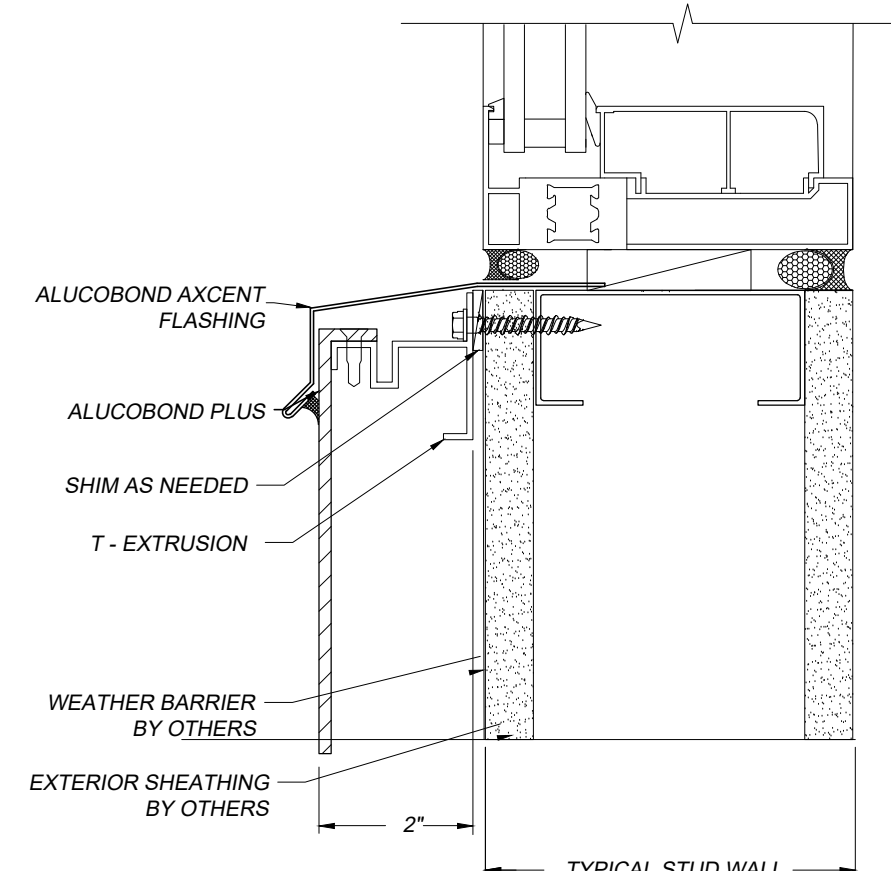
9 ALUCOBOND-INSIDE CORNER DETAIL
Scale: N.T.S



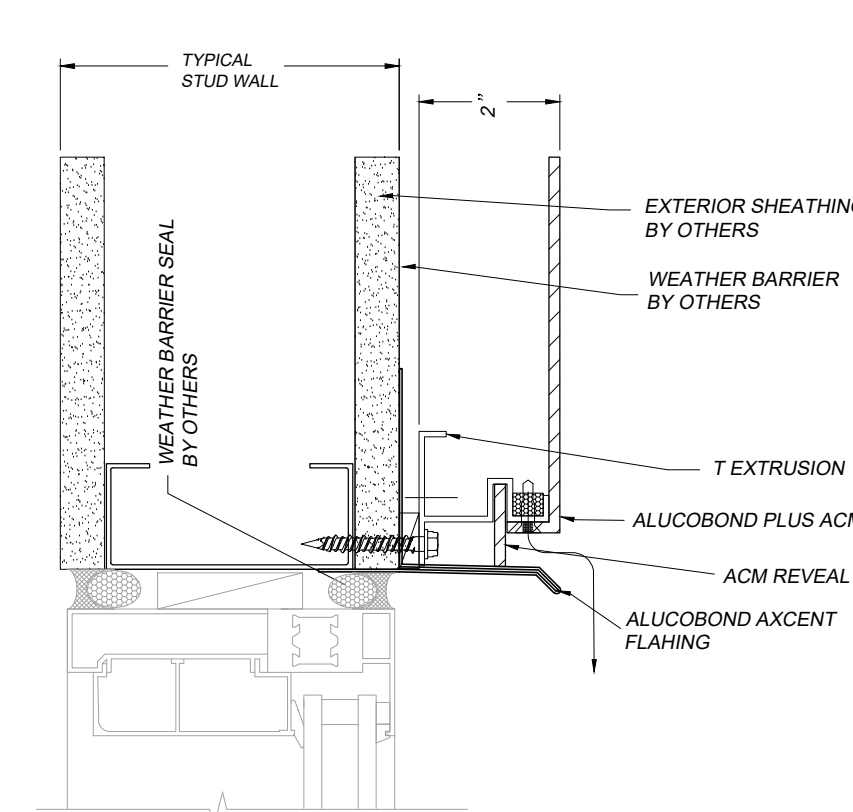
5 ALUCOBOND-VERTICAL JOINT DETAIL
Scale: N.T.S



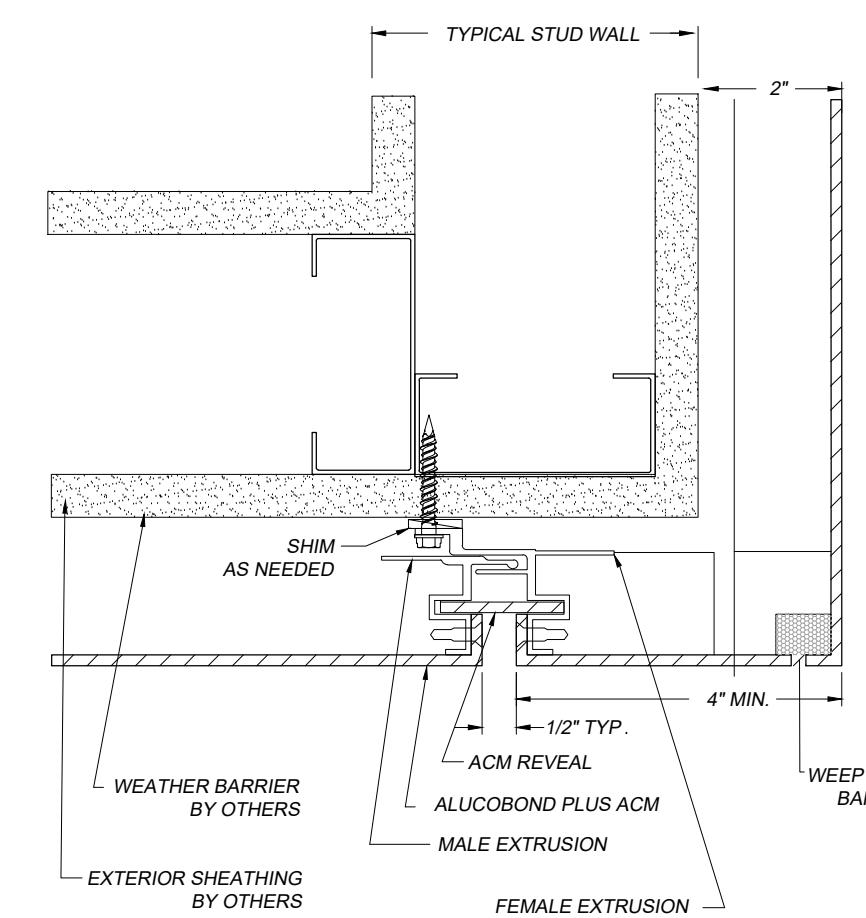
4 ALUCOBOND-WINDOW JAMB
Scale: N.T.S



3 ALUCOBOND-WINDOW SILL
Scale: N.T.S



2 ALUCOBOND-WINDOW HEAD
Scale: N.T.S

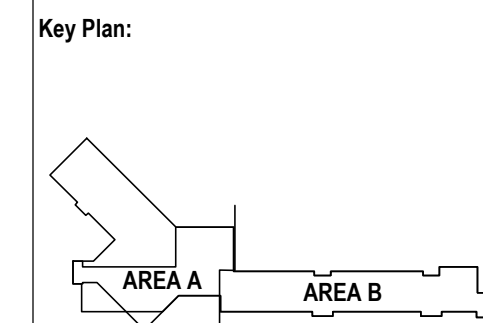


1 ALUCOBOND-WALL TO SOFFIT CONDITION
Scale: N.T.S



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Professional Seal
Scale: 1/4" = 1'-0"
Sht Description:
Alucobond Construction Details

North **A7.03**

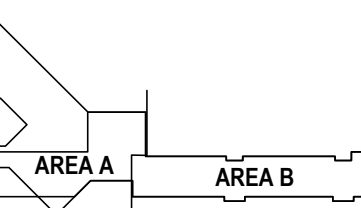


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Key Plan:



Consultants:

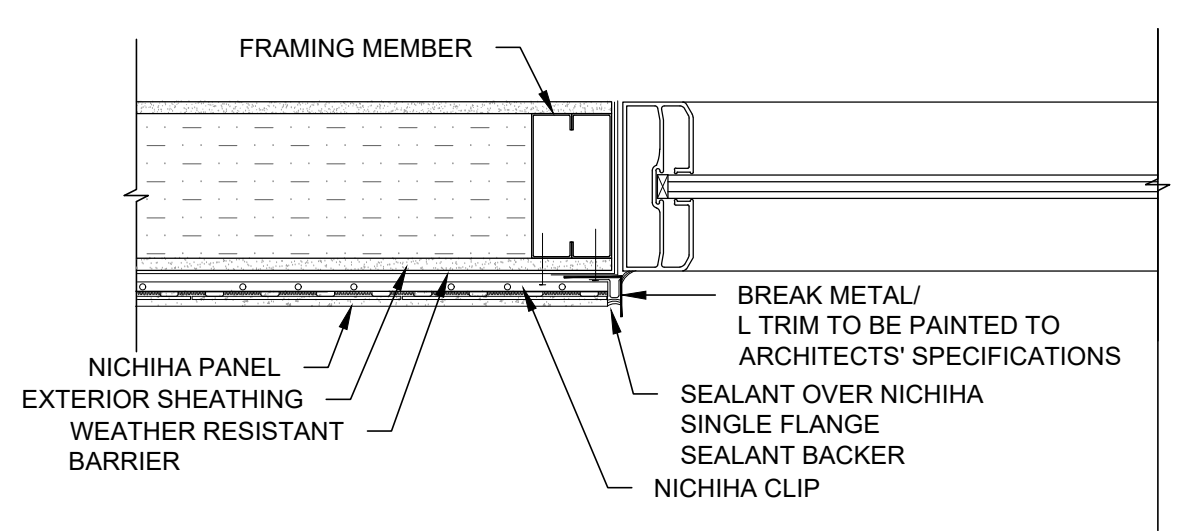
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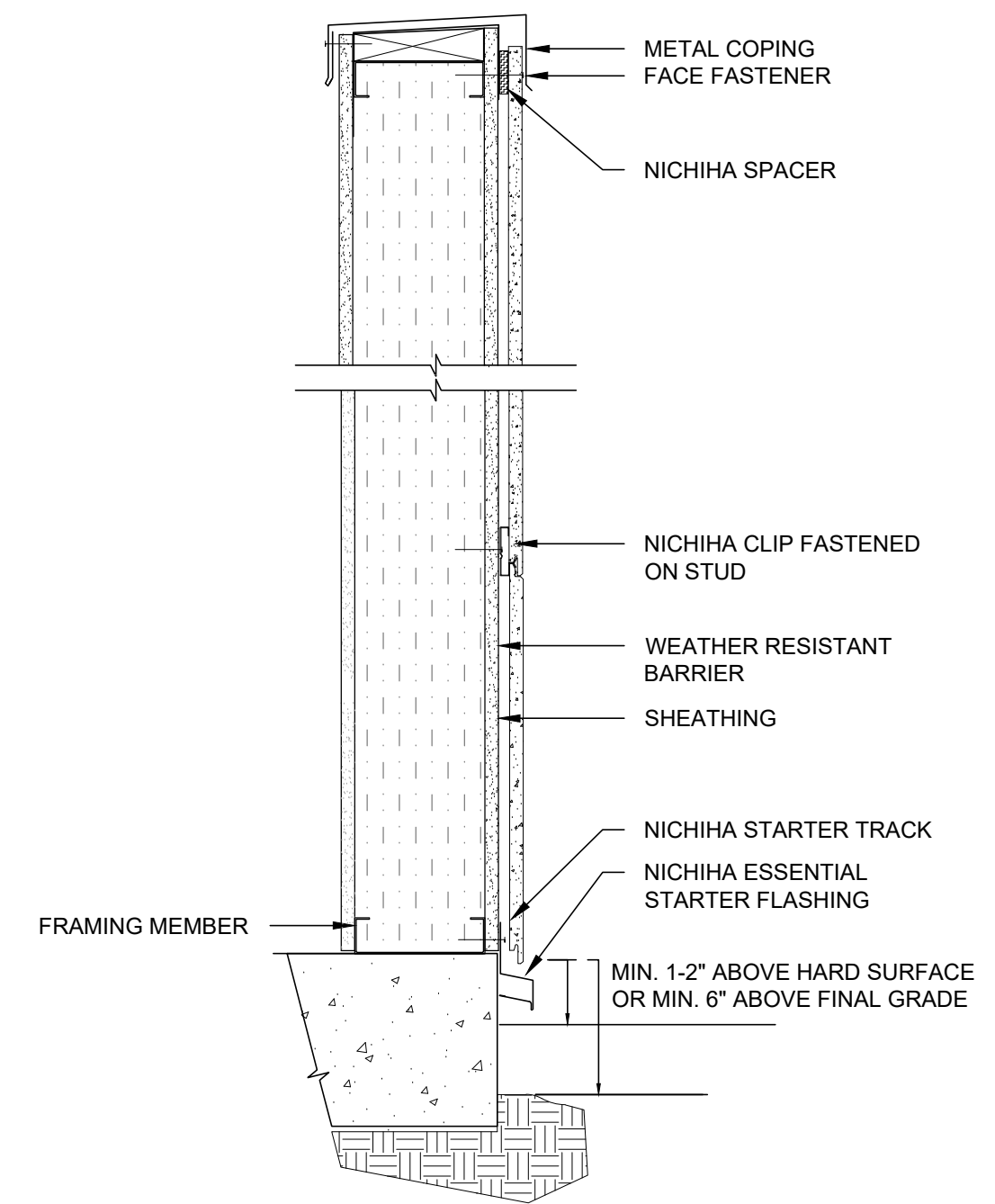


Professional Seal
 Scale: 1/4" = 1'-0"
 Sht Description:
Nichiha Wall Panels
 Construction Details

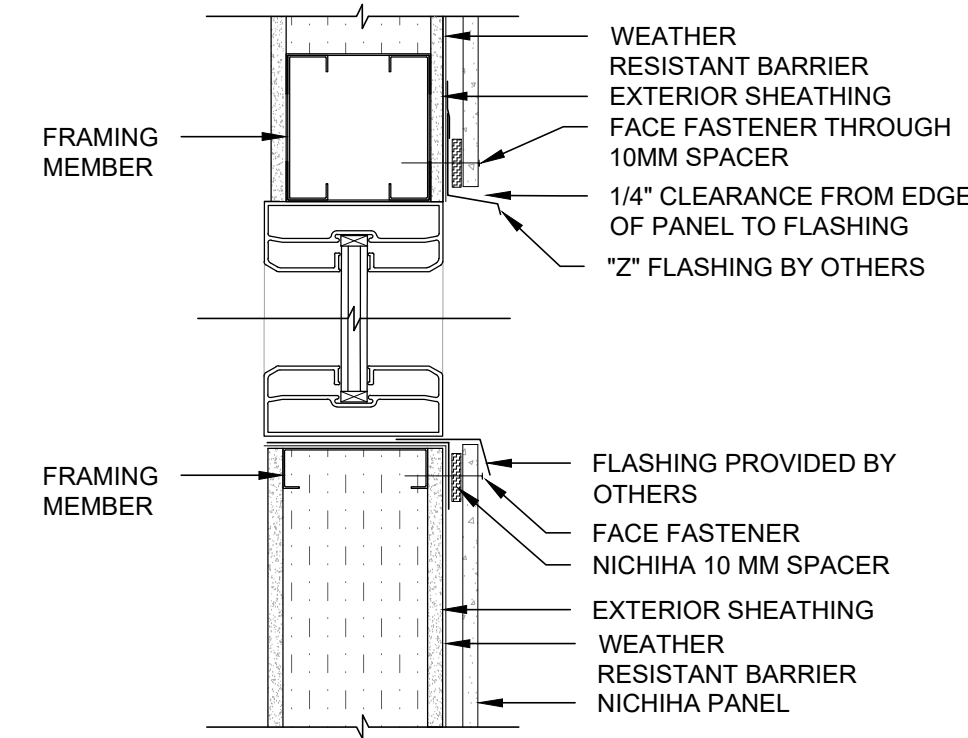
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A7.04



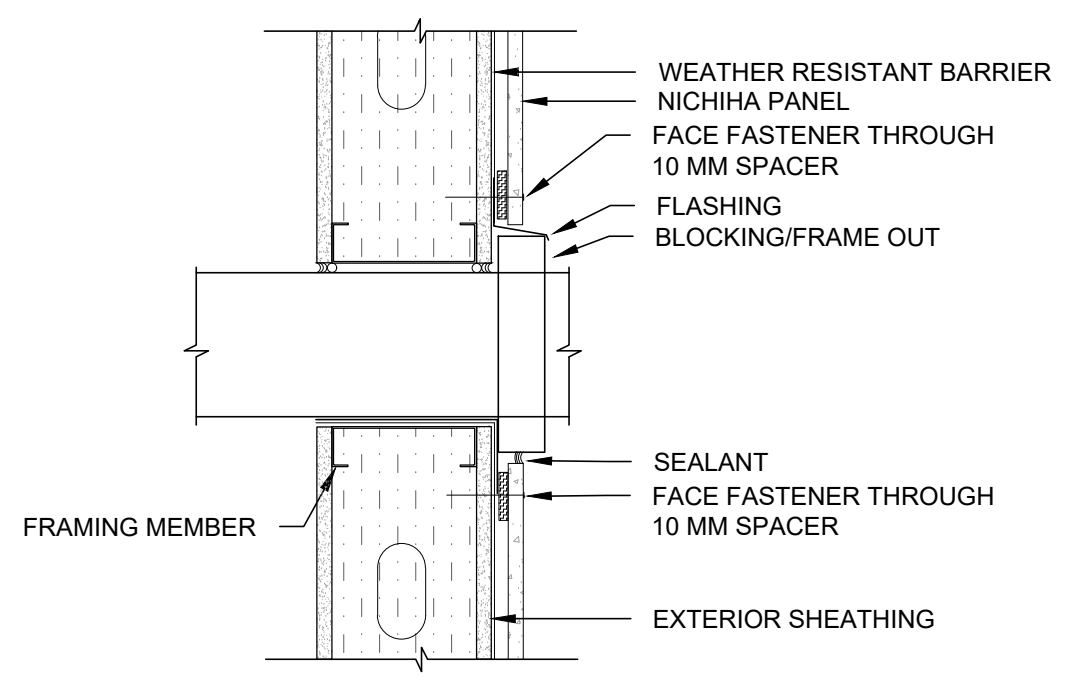
13 NICHIIA - WINDOW JAMB
 Scale: N.T.S



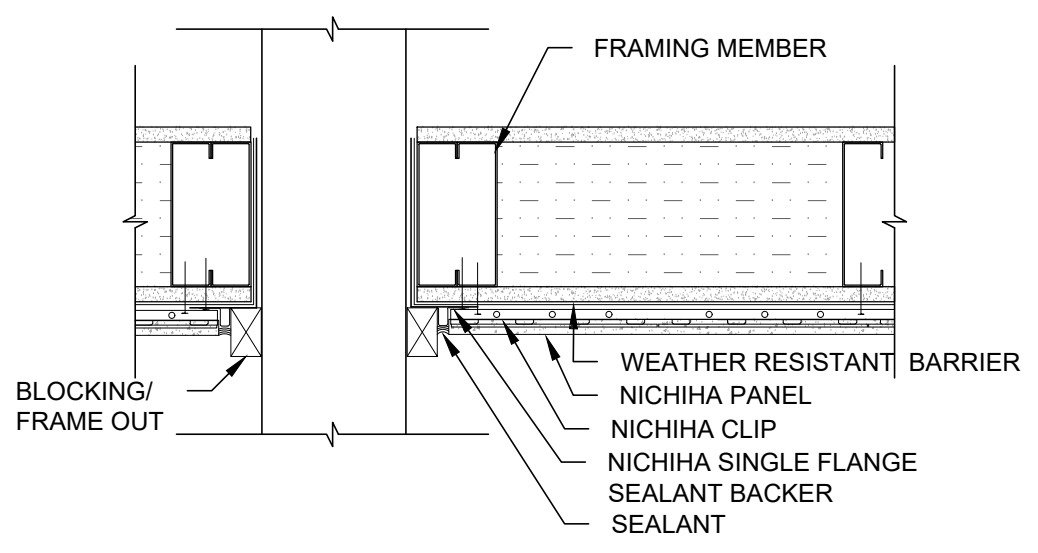
9 NICHIIA - GENERAL WALL SECTION
 Scale: N.T.S



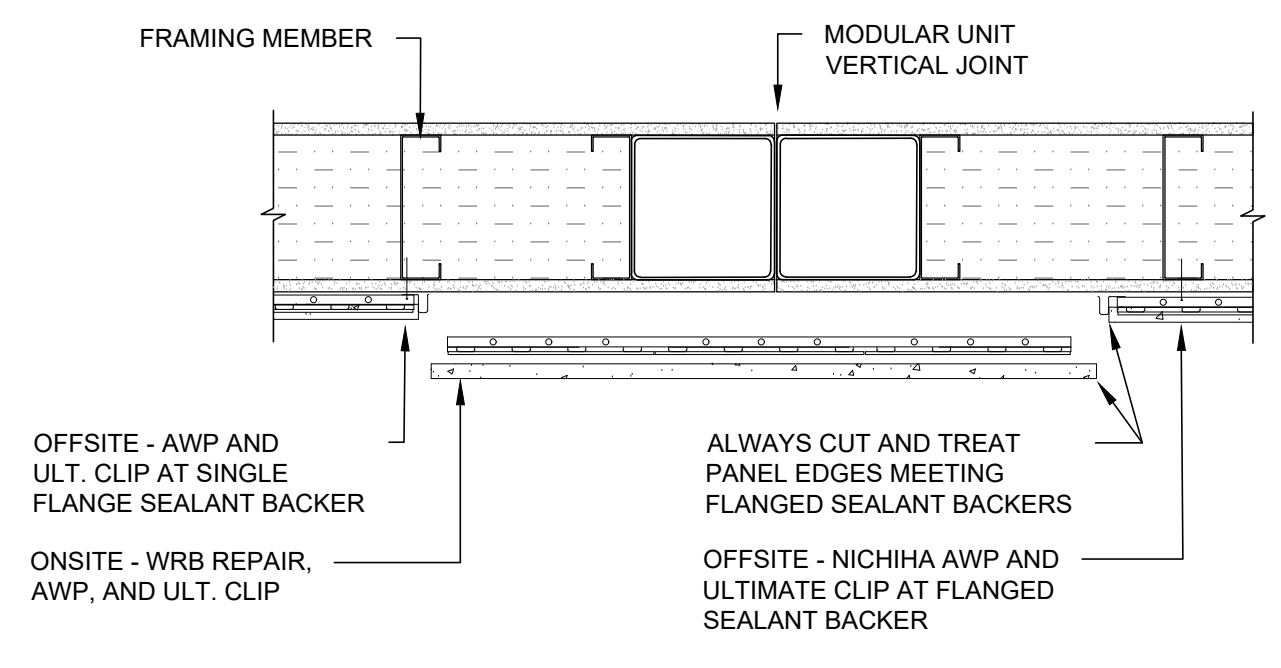
10 NICHIIA - HEADER & SILL
 Scale: N.T.S



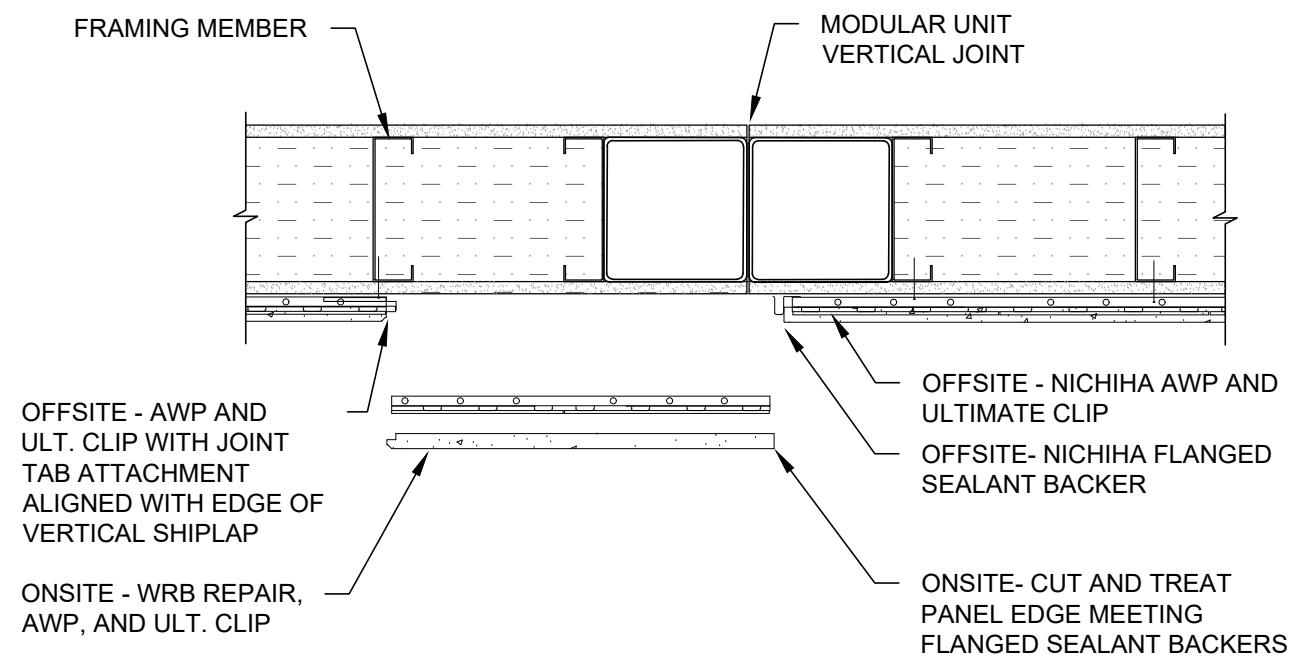
12 NICHIIA - BLOCKED PENETRATION SECTION
 Scale: N.T.S



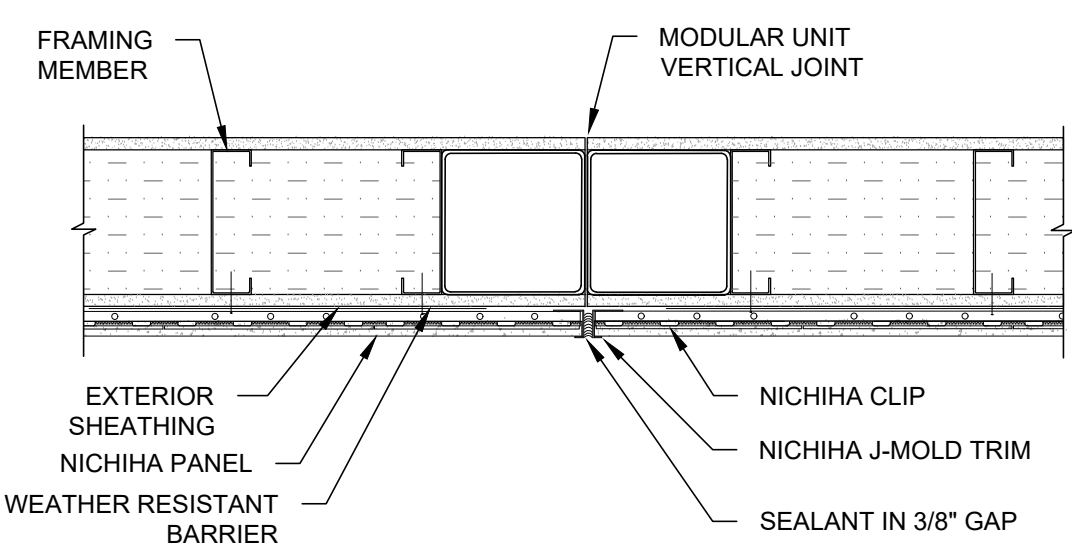
11 NICHIIA - BLOCKED PENETRATION - PLAN
 Scale: N.T.S



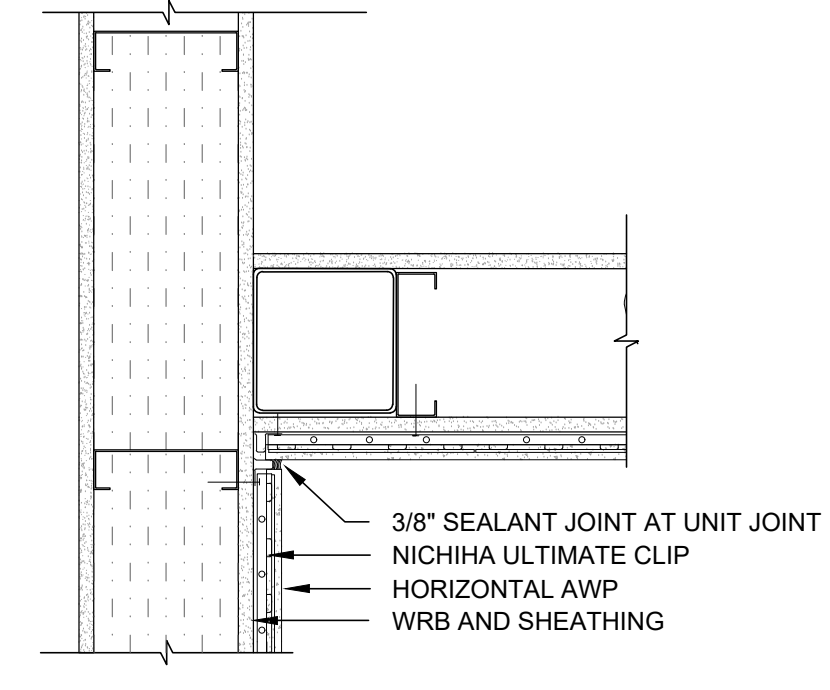
8 NICHIIA - PRE-FAB VERTICAL JOINT STAGGERED LAYOUT
 Scale: N.T.S



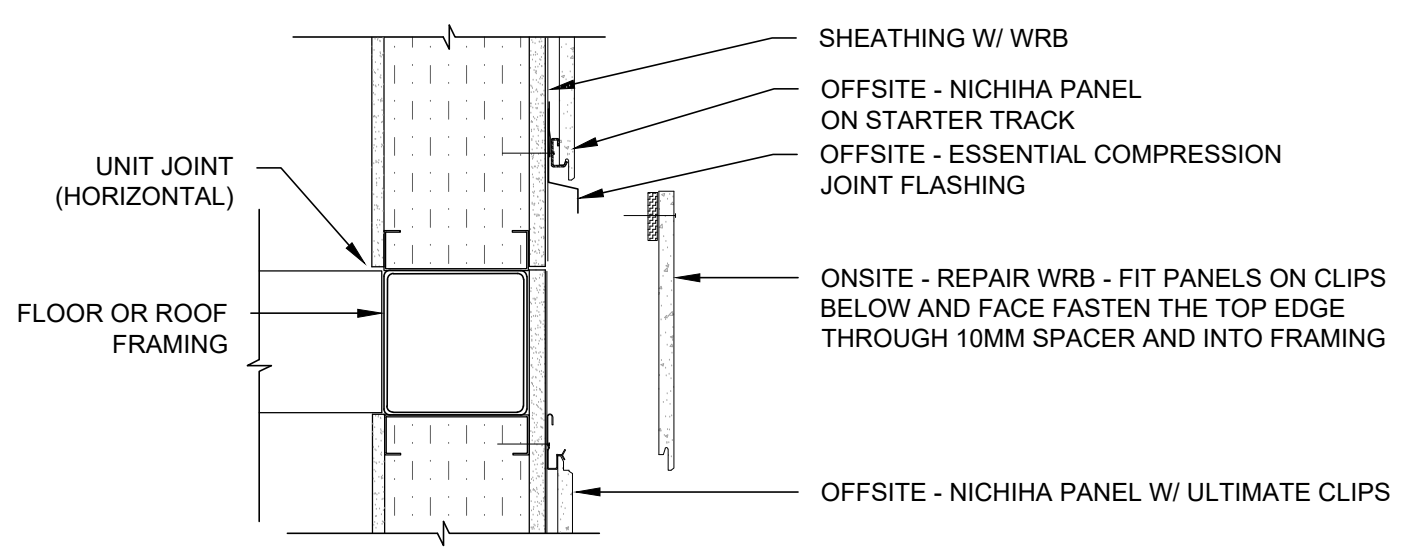
7 NICHIIA - PRE-FAB VERTICAL JOINT STACKED LAYOUT
 Scale: N.T.S



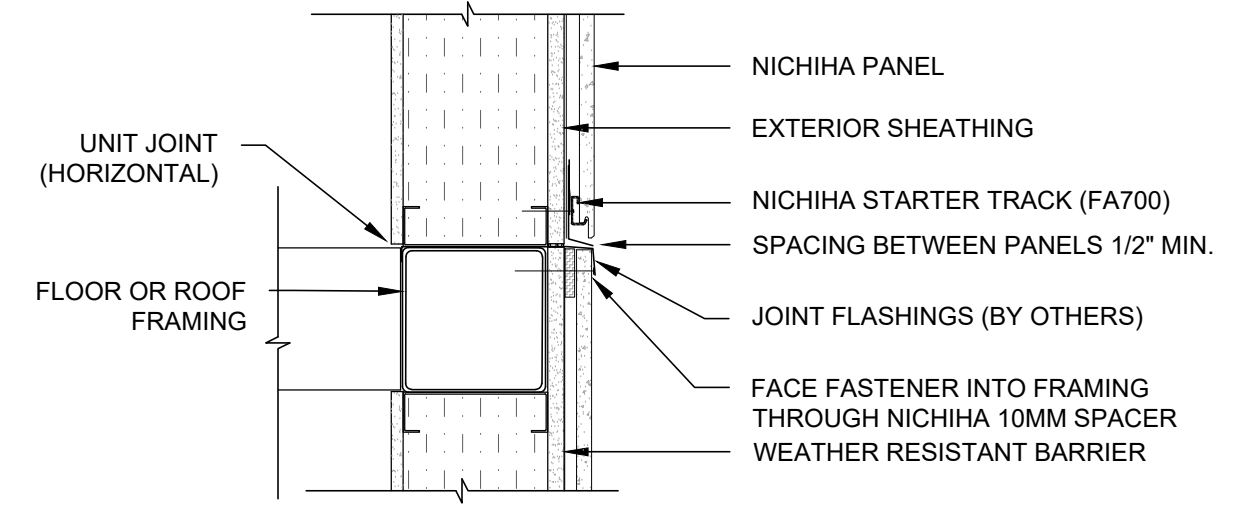
6 NICHIIA - MODULAR VERTICAL JOINT W/ J-MOLD
 Scale: N.T.S



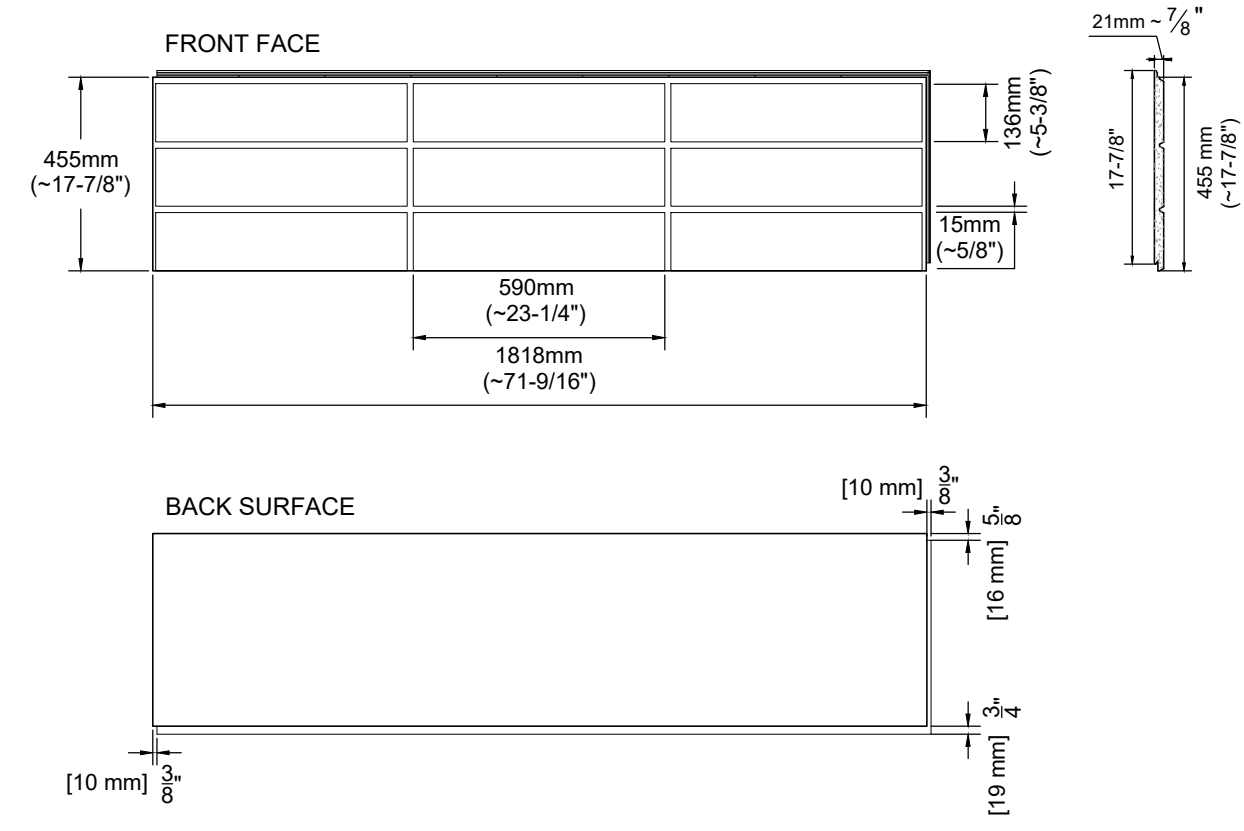
5 NICHIIA - JOINT - INSIDE CORNER
 Scale: N.T.S



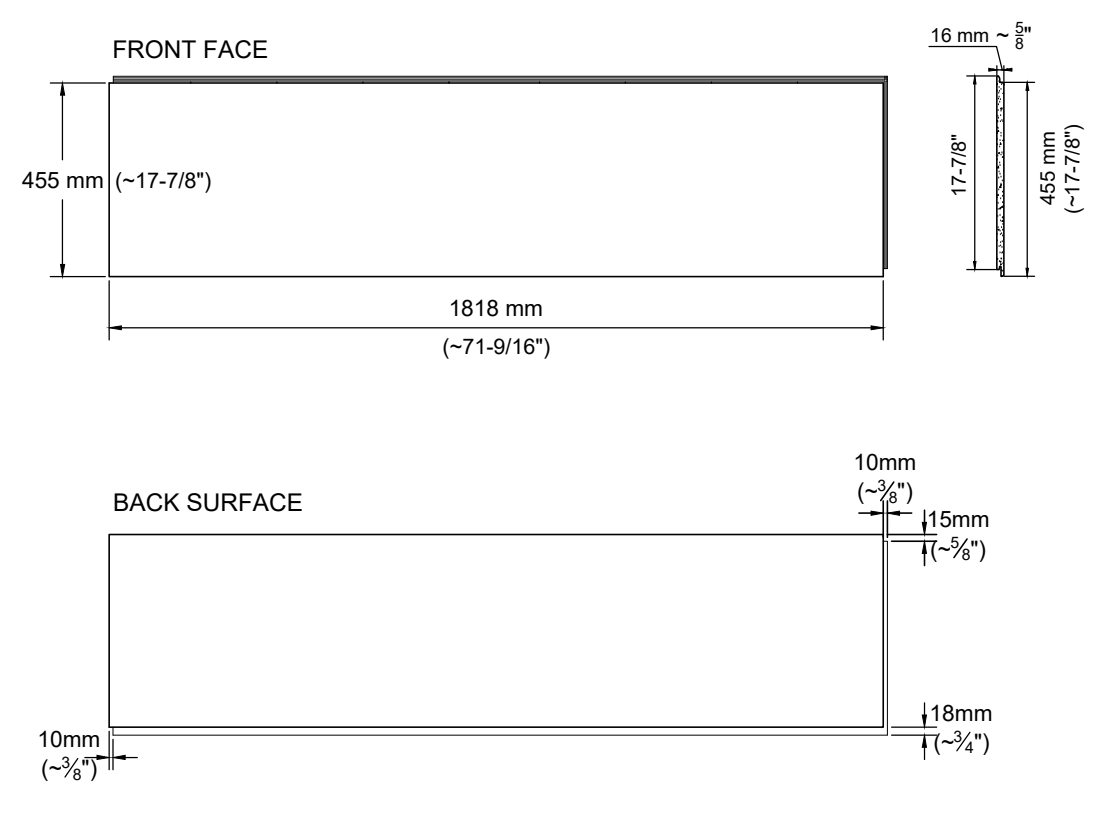
4 NICHIIA - PREFAB HORIZONTAL JOINT
 Scale: N.T.S



3 NICHIIA - MODULAR HORIZONTAL JOINT
 Scale: N.T.S



2 NICHIIA - NOVENARY TILE PANEL PROFILE
 Scale: N.T.S



1 NICHIIA - ARCHITECTURAL BLOCK PROFILE
 Scale: N.T.S

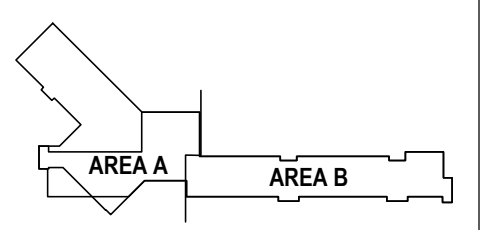


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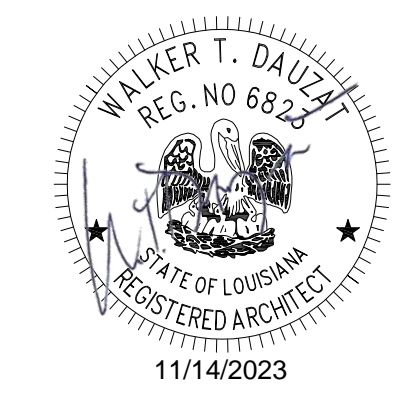
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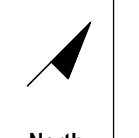
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Scale: 1/4" = 1'-0"

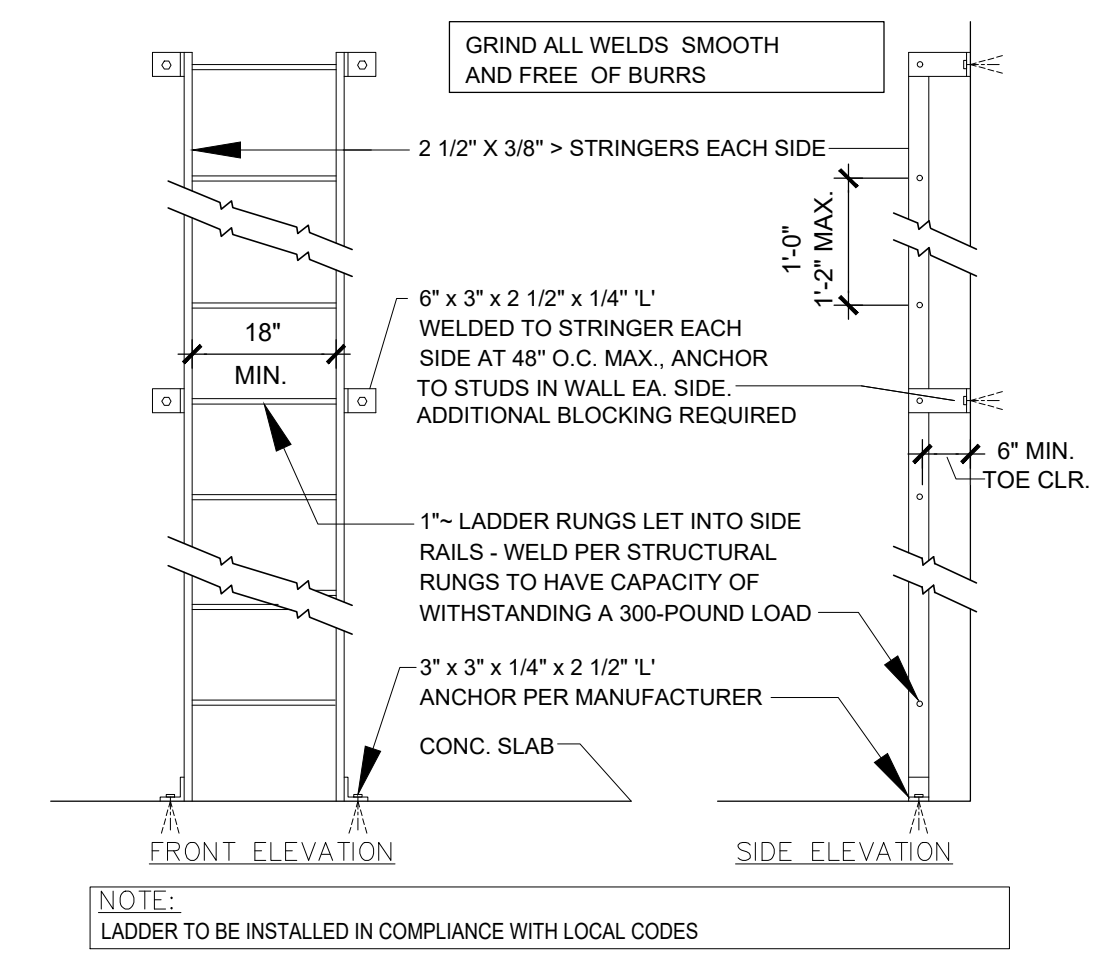
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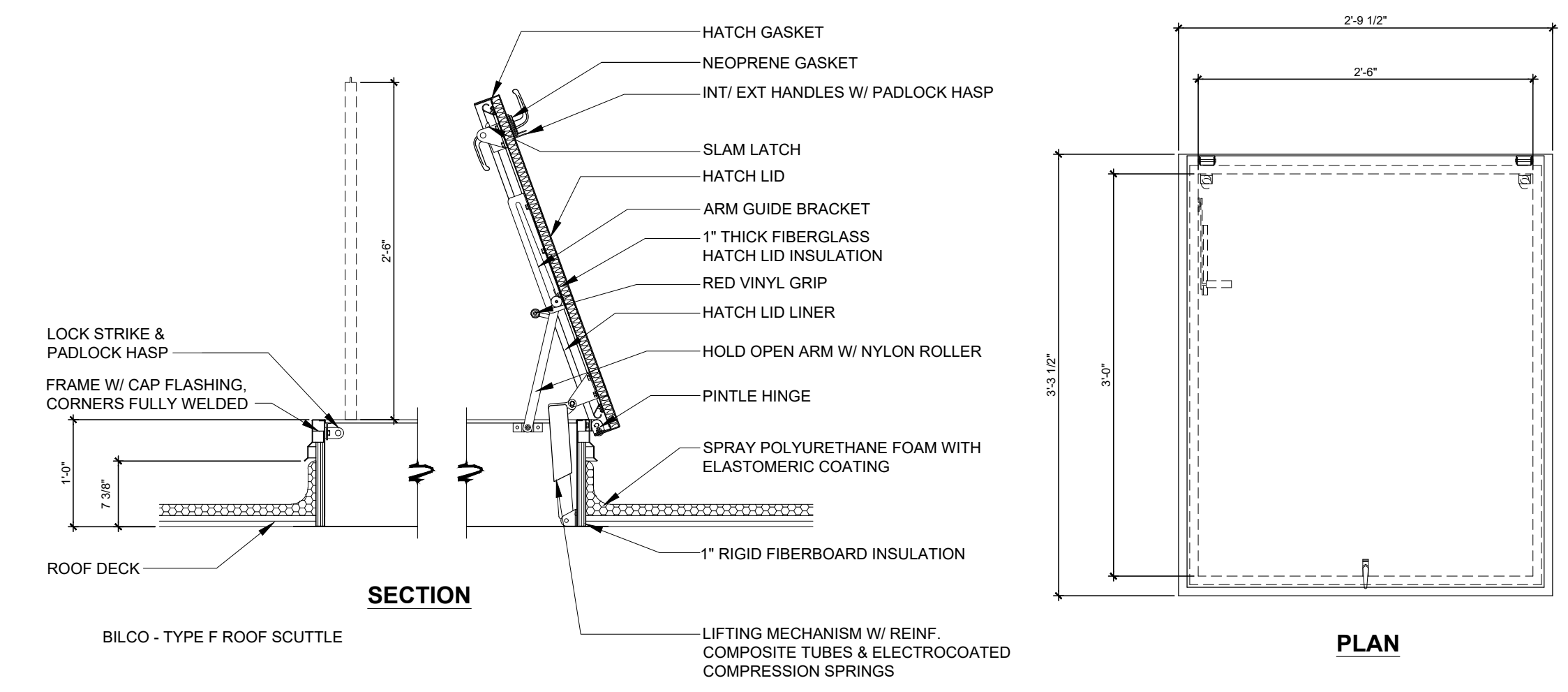
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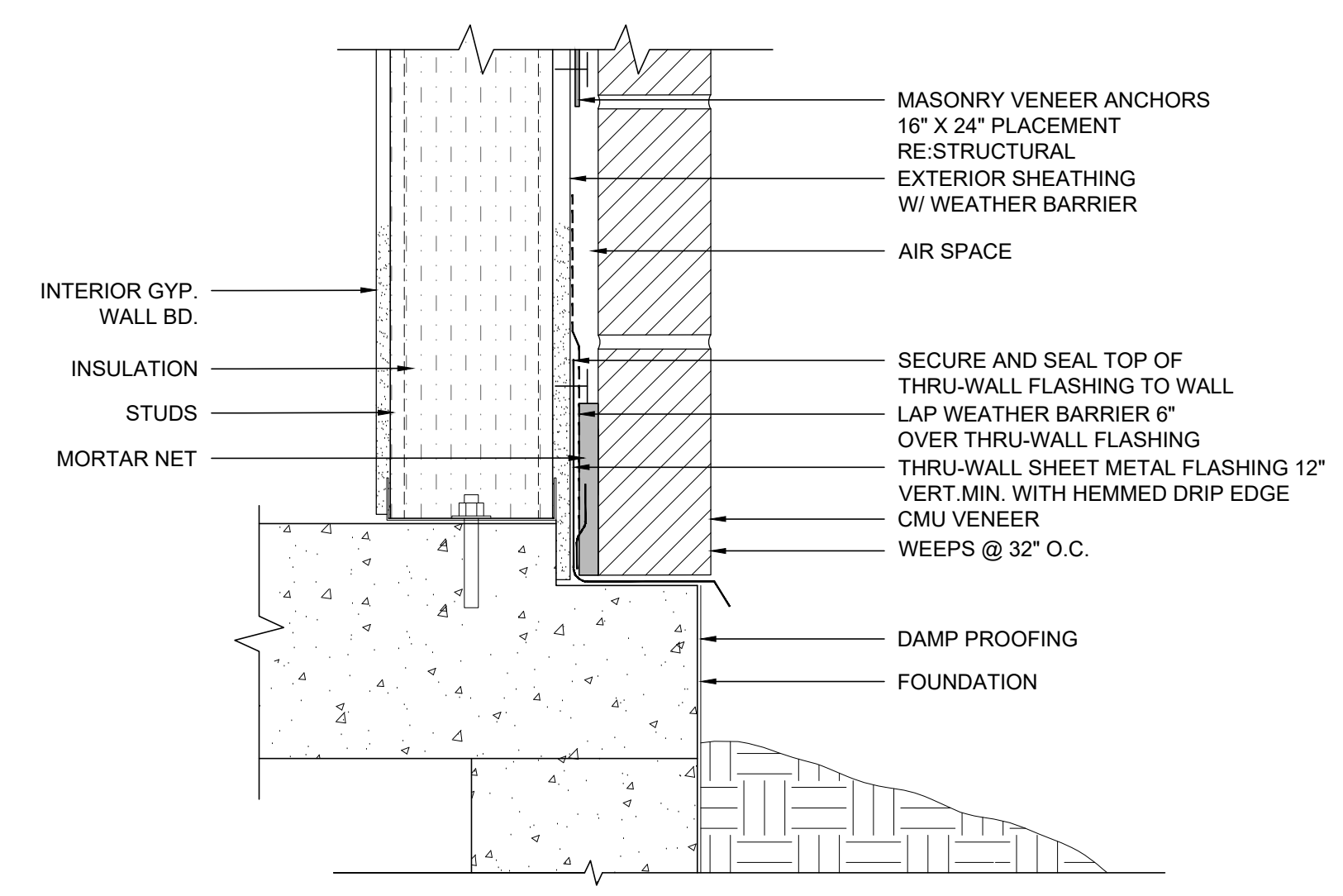
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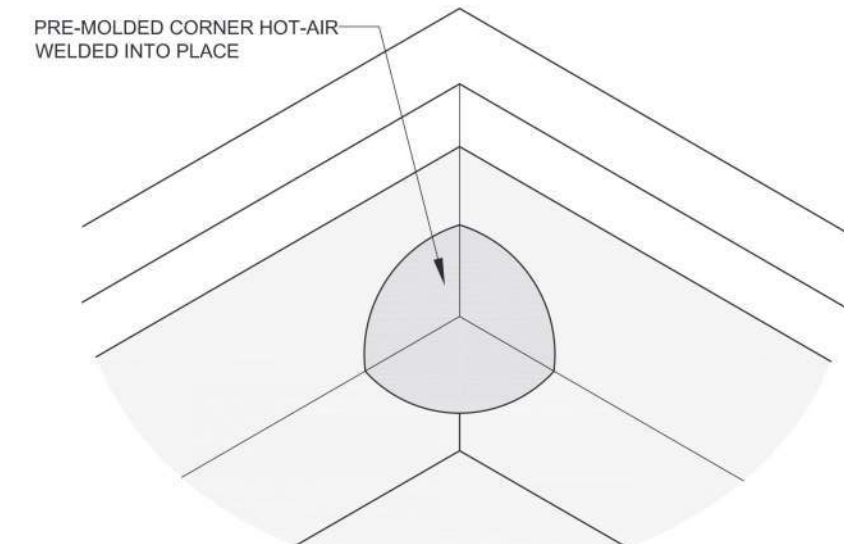
2 ROOF LADDER DETAIL
 Scale: N.T.S.



3 ROOF HATCH
 Scale: N.T.S.

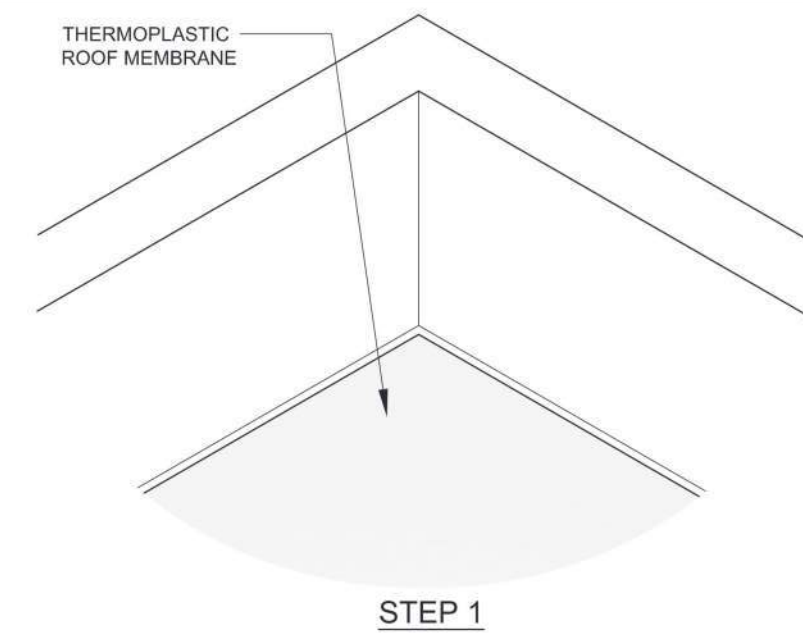


1 TYPICAL MASONRY BASE OF WALL DETAIL
 Scale: 1-1/2" = 1'-0"

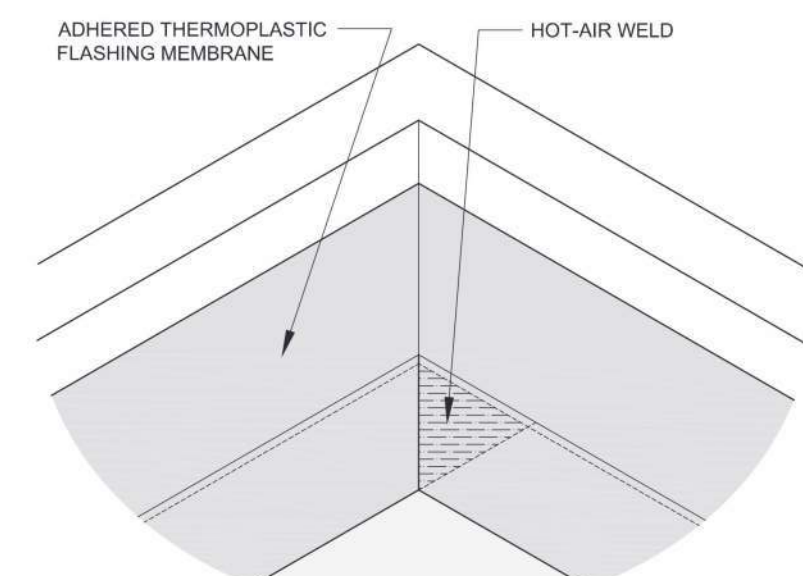


STEP 3—OPTION WITH PRE-MOLDED CORNER

8 TPO INSIDE CORNER FLASHING
Scale: NTS

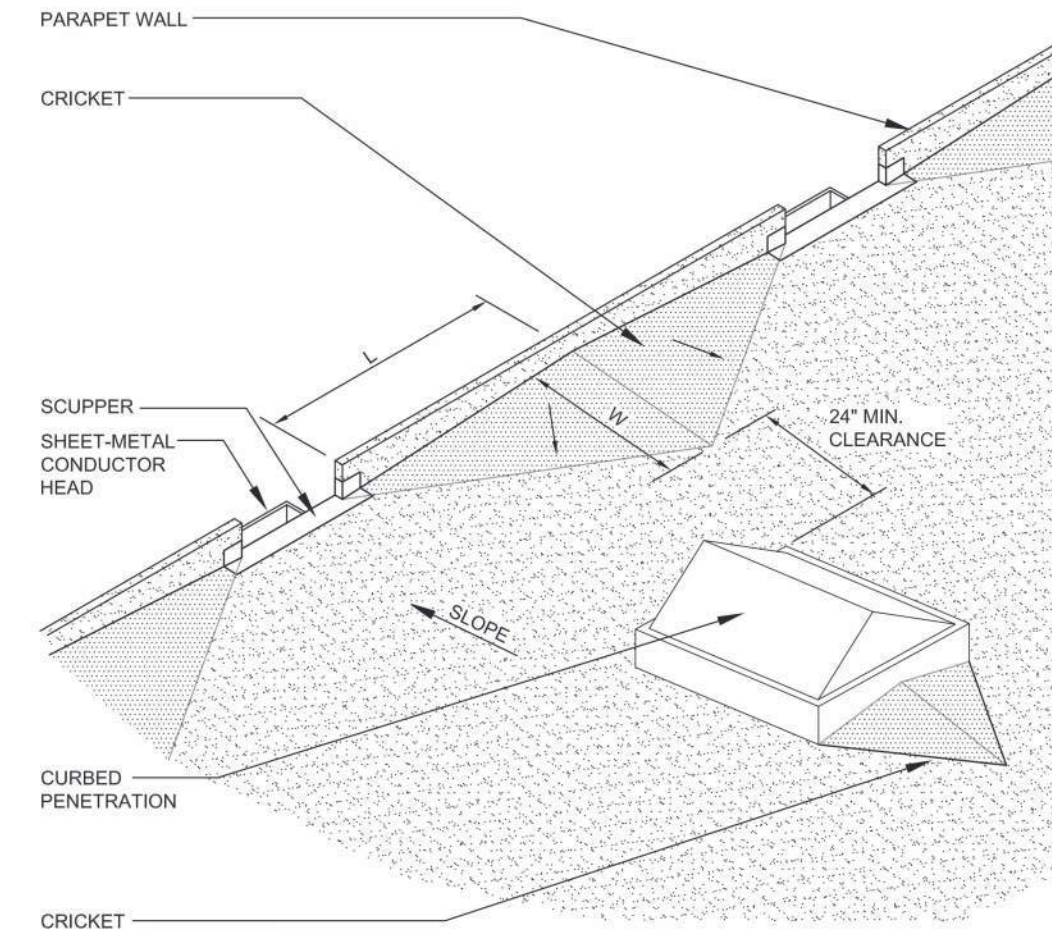


STEP 1



STEP 2

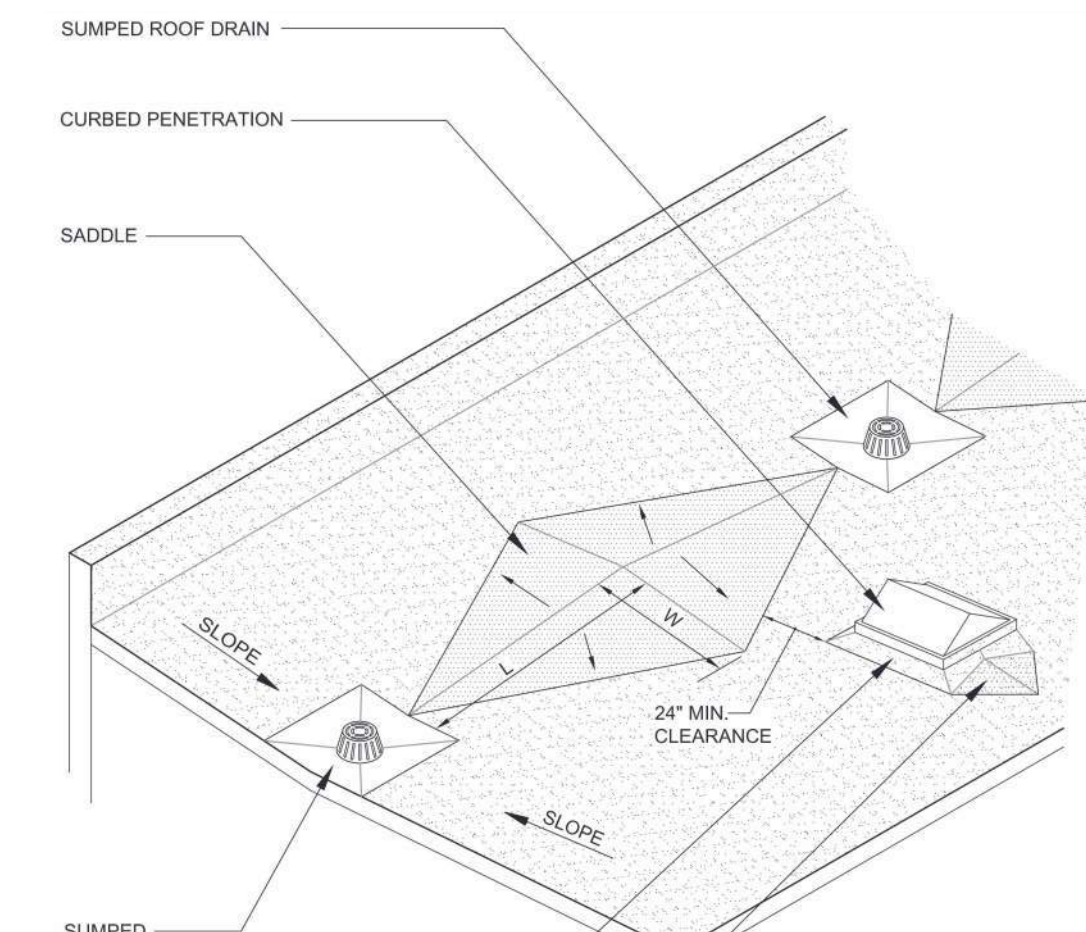
7 TPO INSIDE CORNER FLASHING
Scale: NTS



RECOMMENDED MAXIMUM LW RATIOS FOR CRICKETS		
ROOF SLOPE	CRICKET MATERIAL SLOPE	L/W RATIO
1/8	1/4	3:1
1/4	1/2	3:1
1/2	1/2	4:1

- NOTES:
- CRICKETS SHOULD BE LOCATED BETWEEN PERIMETER AND/OR THROUGH-WALL SCUPPERS AND ON THE HIGH SIDE OF CURBS.
 - RAISED PERIMETER EDGES WHERE TAPERED CRICKETS ARE USED MAY NECESSITATE THE USE OF RELATIVELY WIDE (TALL) DIMENSIONAL LUMBER OR THE ERECTION OF FRAMED WALLS.
 - SADDLE INSULATION MAY BE SANDWICHED BETWEEN LAYERS OF FLAT STOCK INSULATION.

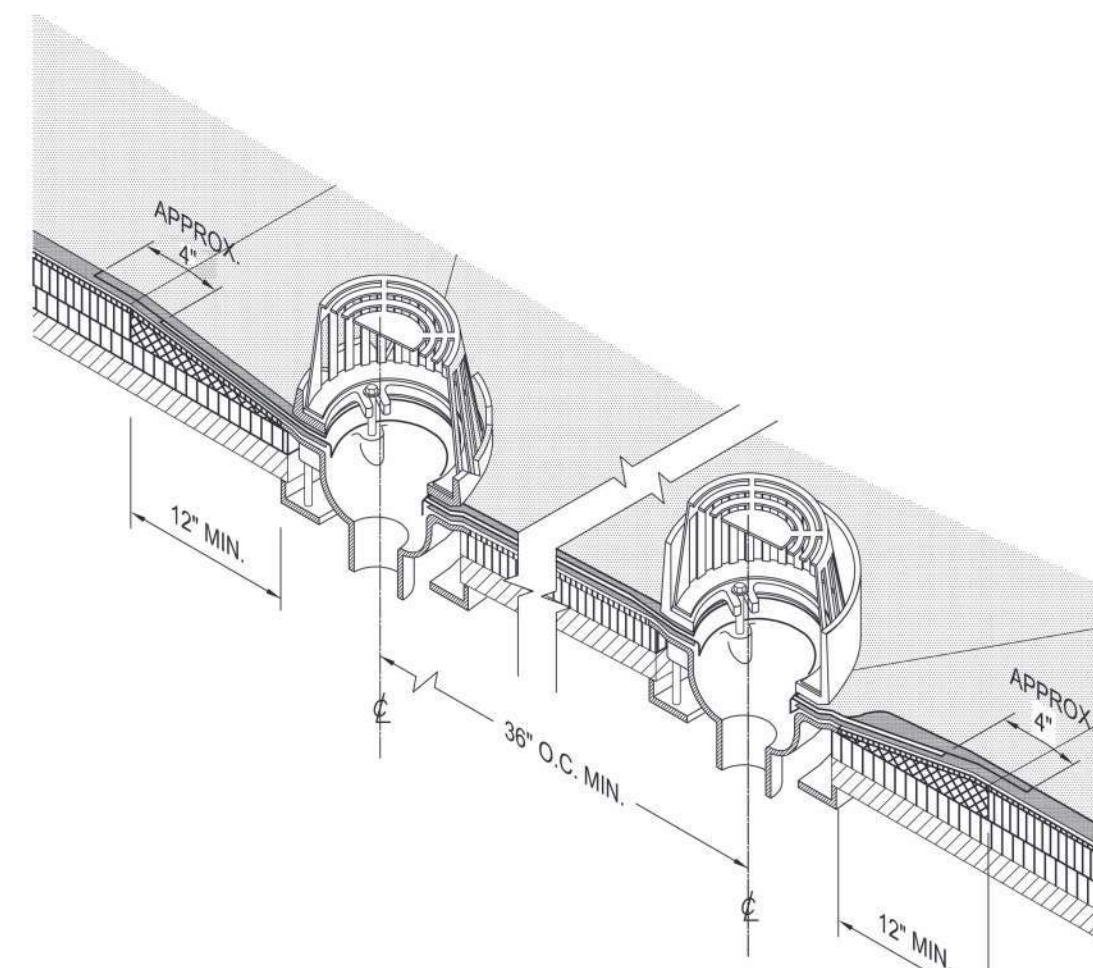
6 CRICKET GUIDELINES
Scale: NTS



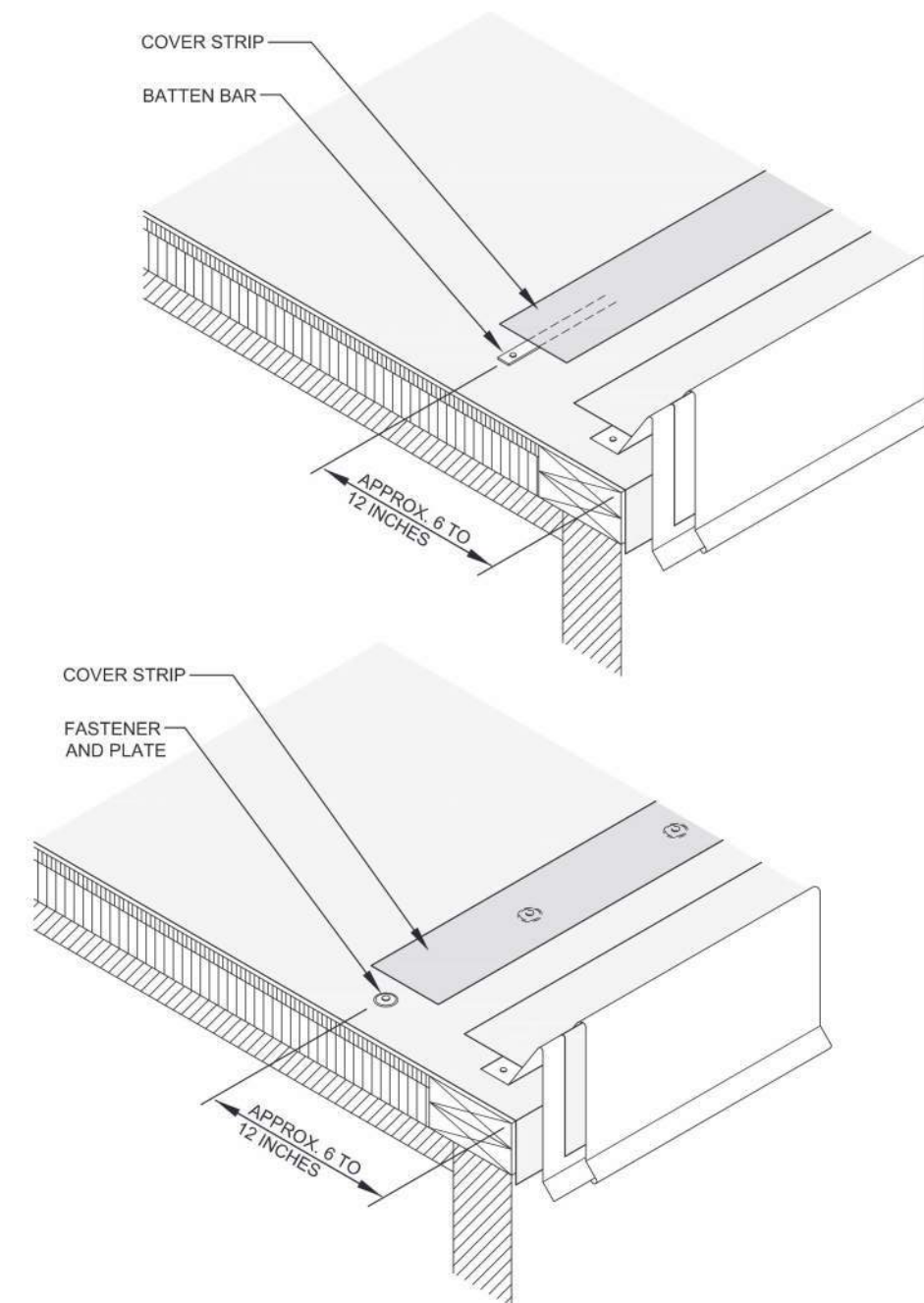
RECOMMENDED MAXIMUM LW RATIOS FOR SADDLES AND CRICKETS		
ROOF SLOPE	SADDLE MATERIAL SLOPE	L/W RATIO
1/8	1/4	3:1
1/4	1/2	3:1
1/2	1/2	4:1

- NOTES:
- SADDLES SHOULD BE LOCATED IN VALLEYS BETWEEN ROOF DRAINS, AND CRICKETS SHOULD BE LOCATED ON THE HIGH SIDE OF CURBS.
 - LOCATE ROOF DRAINS AT POINTS OF MAXIMUM DECK DEFLECTION/LOW AREAS FOR DRAINAGE.
 - SADDLE INSULATION MAY BE SANDWICHED BETWEEN LAYERS OF FLAT STOCK INSULATION.

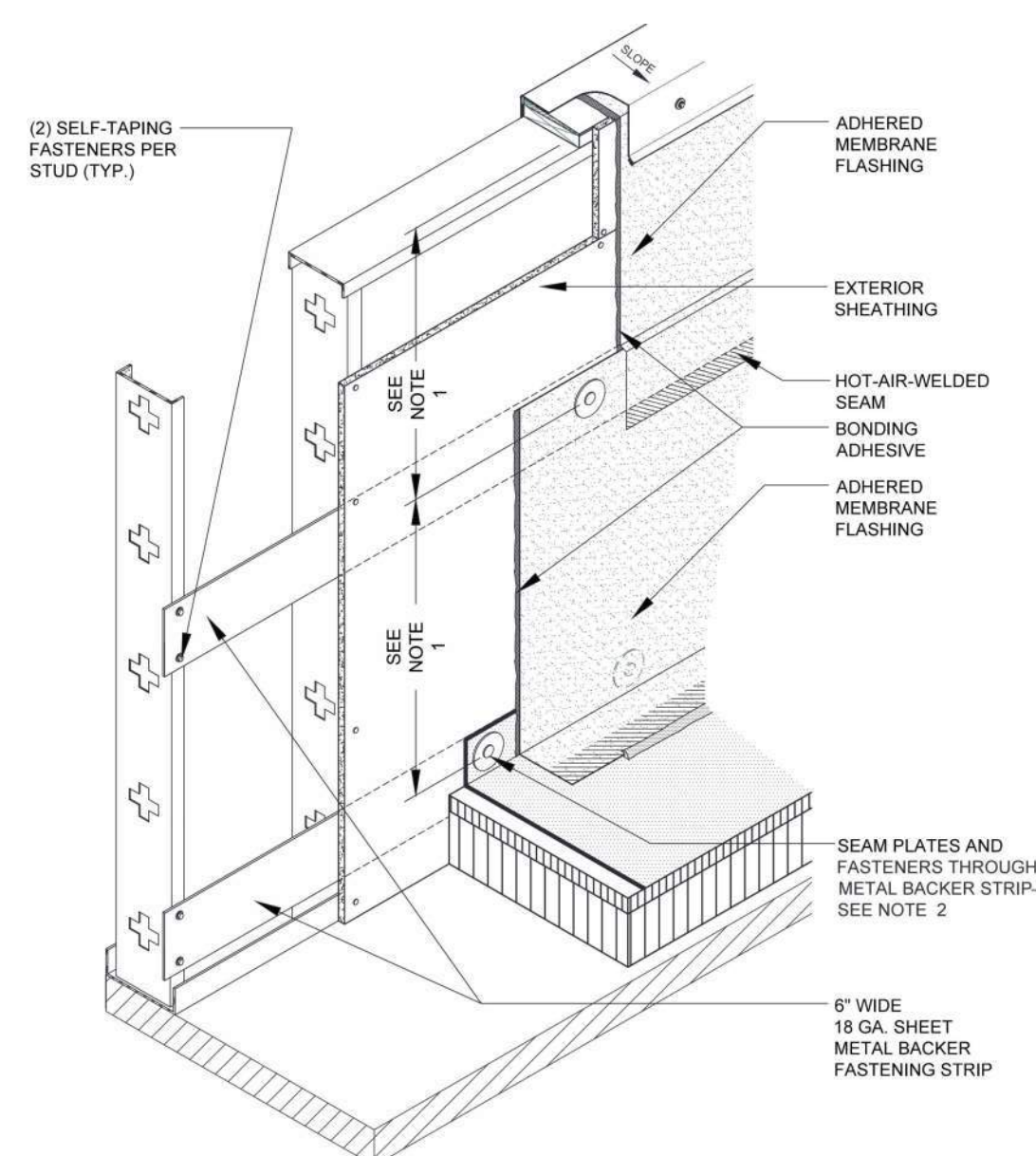
5 CRICKETS AND SADDLES
Scale: NTS



4 DRAIN GUIDELINES
Scale: NTS

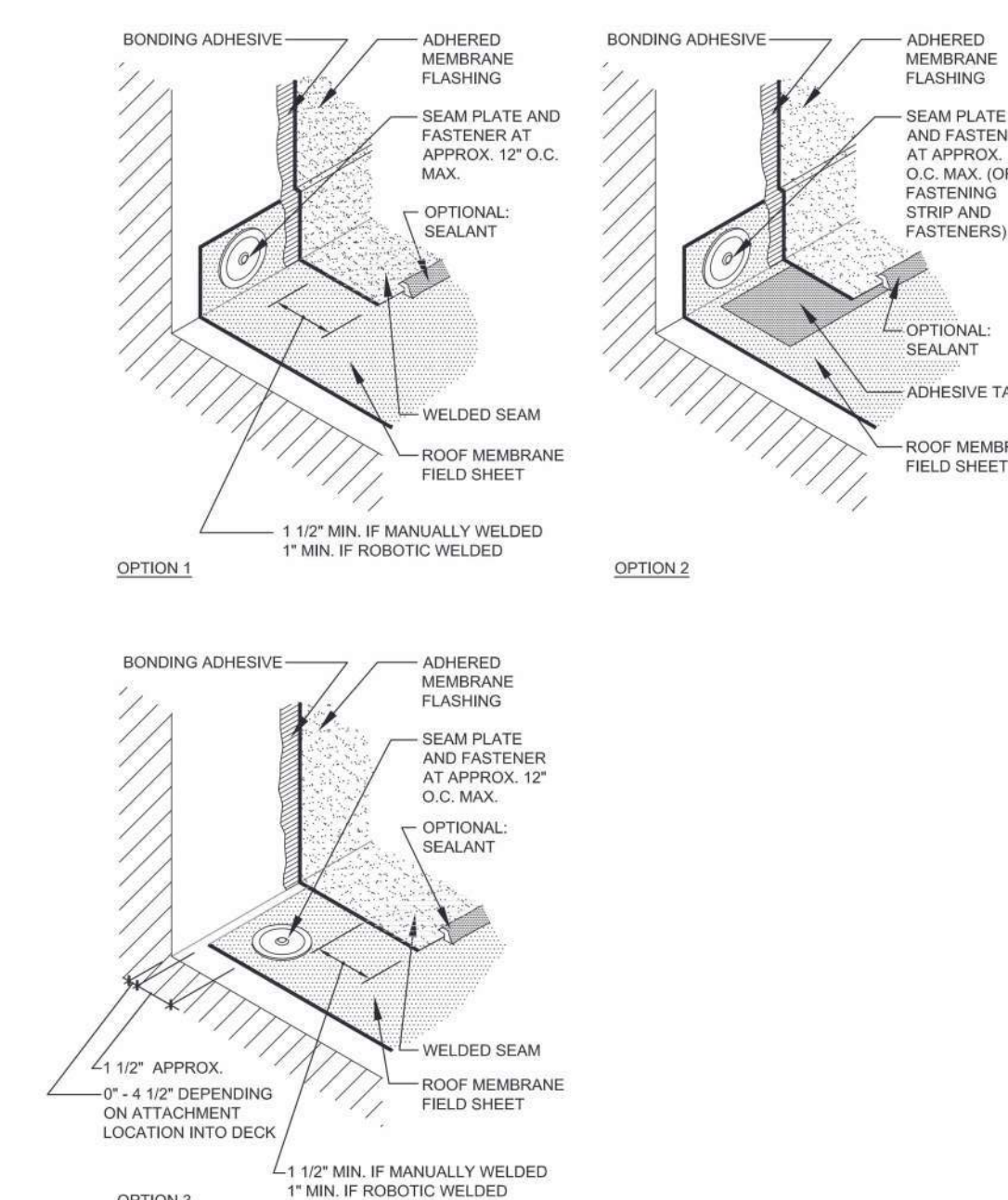


3 BASE SECUREMENT AT OUTSIDE EDGE
Scale: NTS



- NOTE:
- MAX SPACING FOR MEMBRANE FLASHING FASTENING AS RECOMMENDED BY MANUFACTURER.
 - REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.

2 BASE SECUREMENT
Scale: NTS



1 BASE SECUREMENT
Scale: NTS

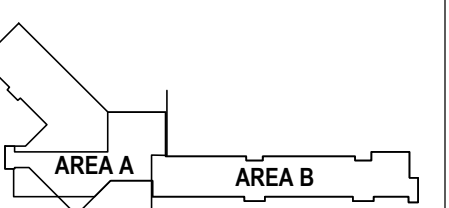


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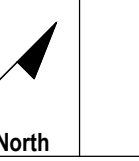


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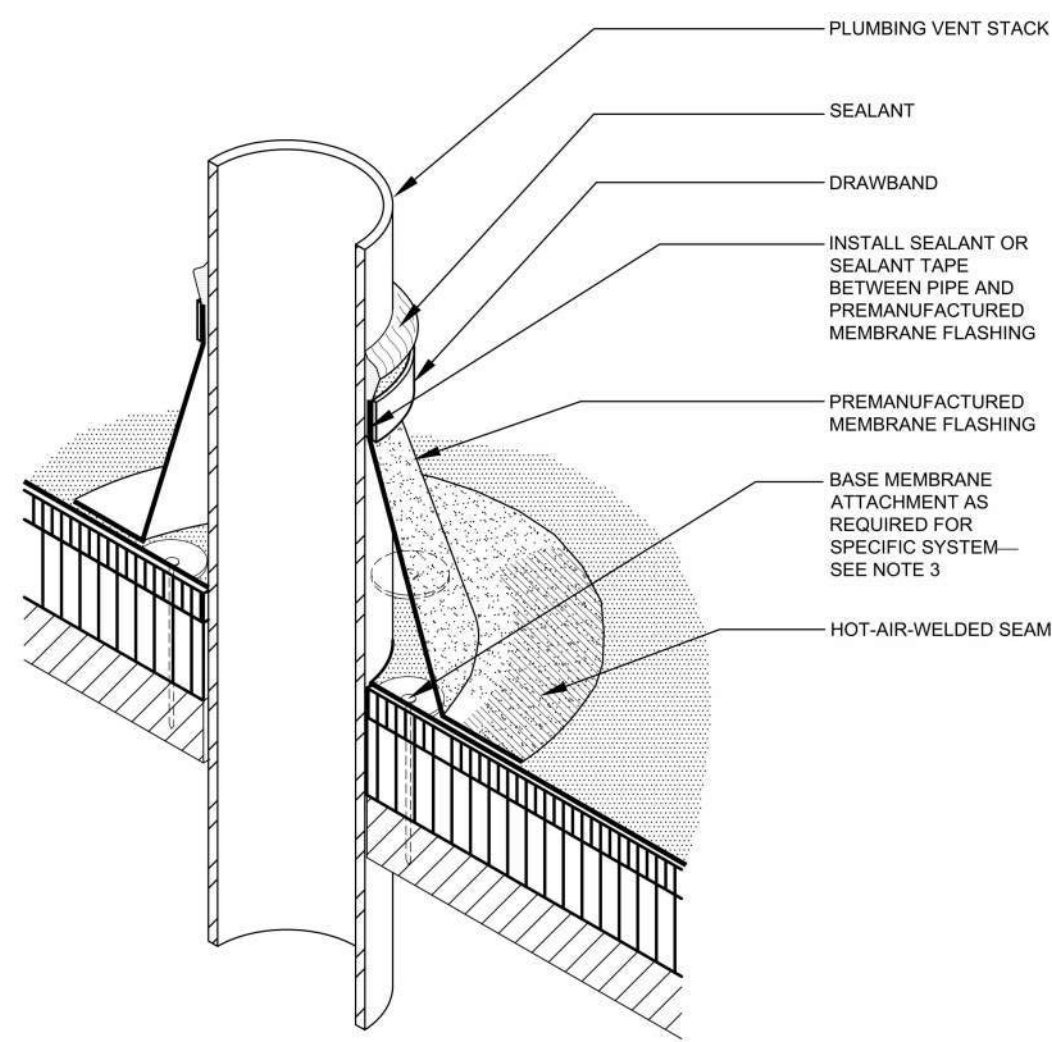
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Sheet Description:

Roofing Details

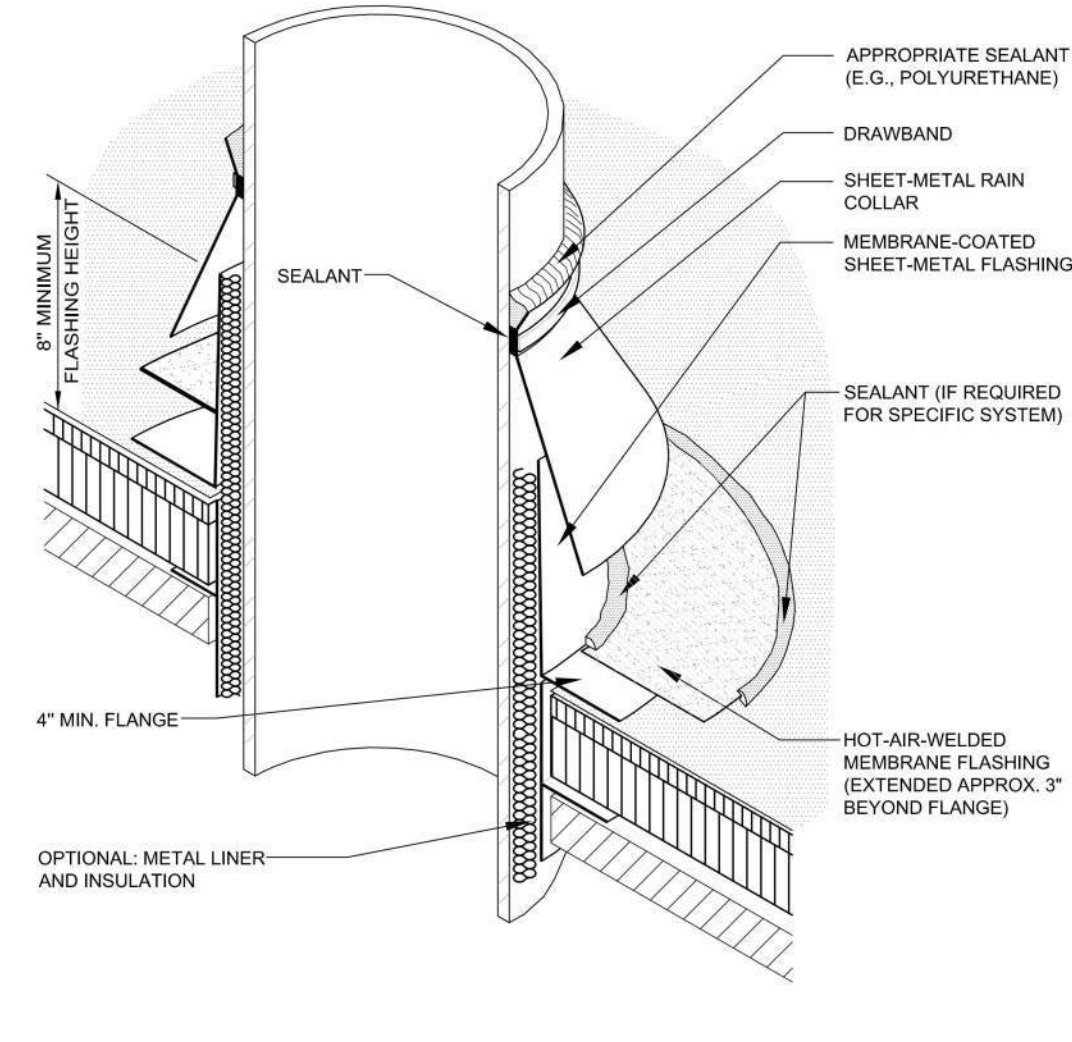


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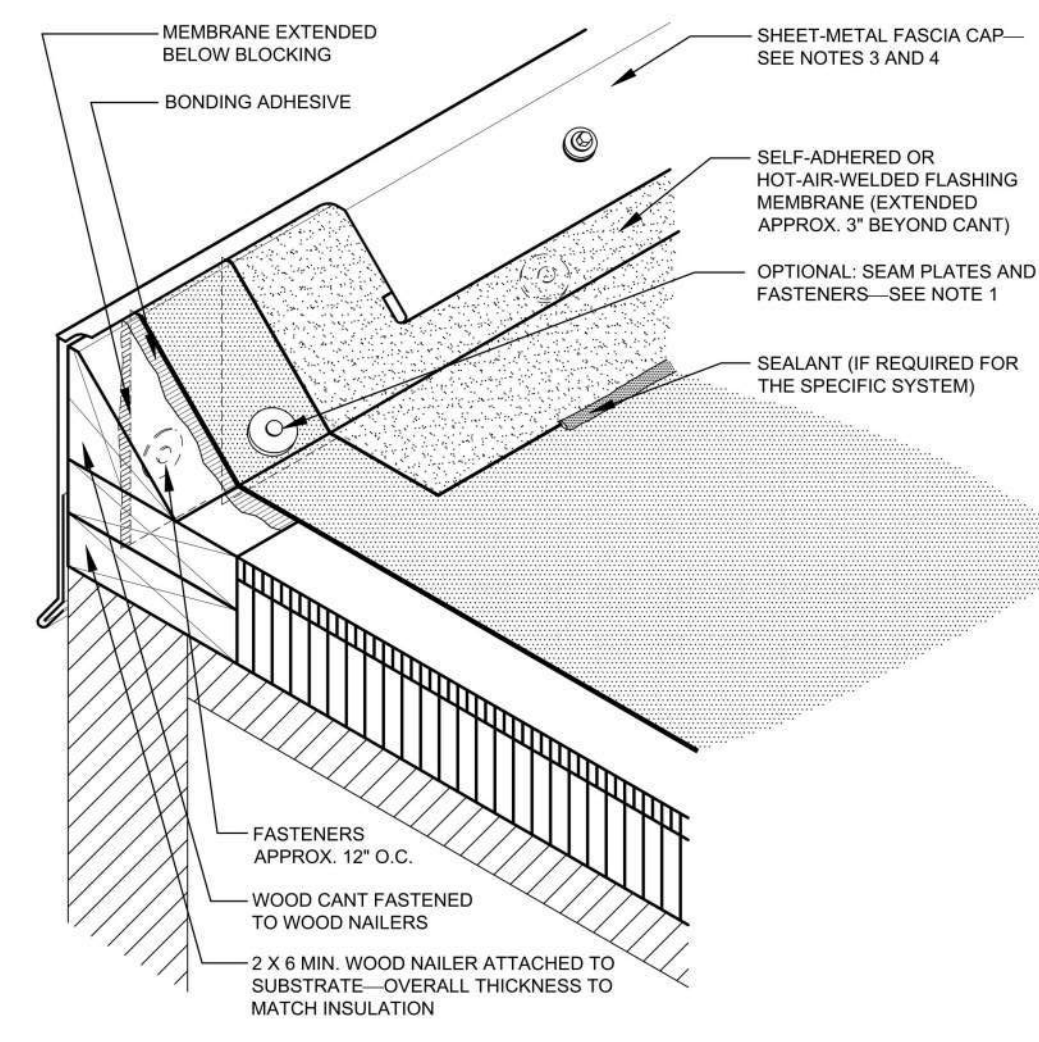
- NOTES:
1. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING. SEE THE INTRODUCTION TO THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
 2. NRCA RECOMMENDS FLASHINGS BE 8 INCHES HIGH. HOWEVER, NRCA IS AWARE PREMANUFACTURED BOOT FLASHINGS GENERALLY WILL NOT MEET THE HEIGHT REQUIREMENT.
 3. REFER TO MANUFACTURER'S SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PENETRATION LOCATIONS.
 4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

8 PLUMBING VENT
Scale: NTS



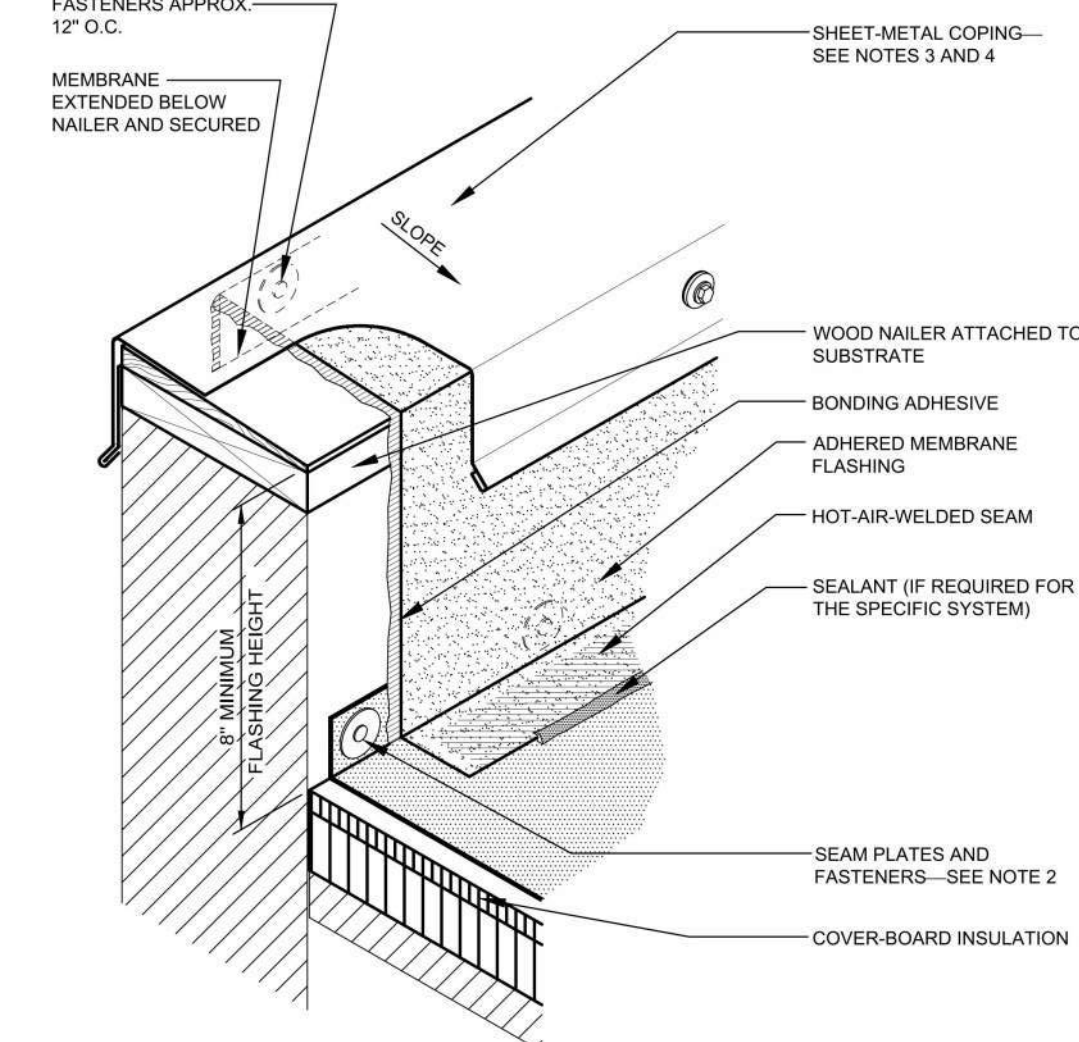
- NOTES:
1. THIS DETAIL ALLOWS THE OPENING TO BE COMPLETED BEFORE THE STACK IS PLACED.
 2. THE CLEARANCE NECESSARY BETWEEN THE OPTIONAL INSULATION AND METAL LINER AND THE STACK WILL DEPEND ON THE TEMPERATURE OF THE MATERIAL HANDLED BY THE STACK.
 3. REFER TO MANUFACTURER'S SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PENETRATION LOCATIONS.
 4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

7 STACK VENT DETAIL
Scale: NTS



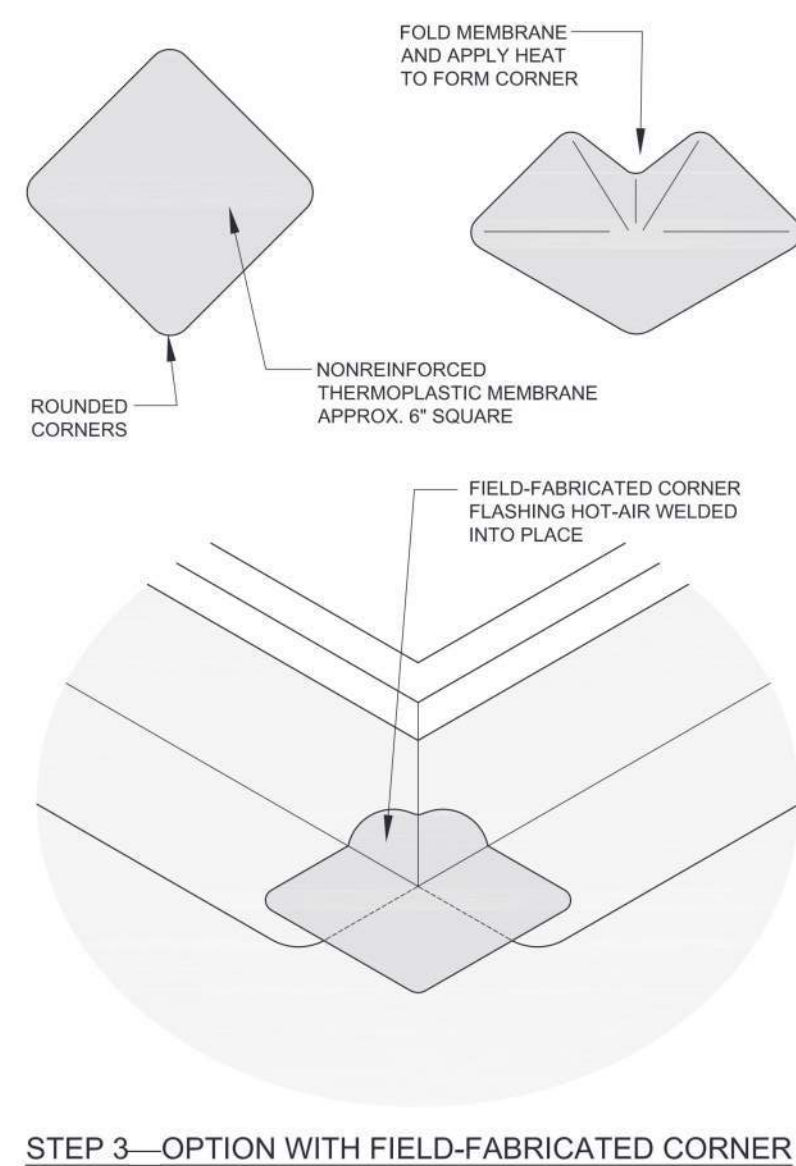
- NOTES:
1. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 2. REFER TO MANUFACTURER'S SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PERIMETER LOCATIONS.
 3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL, ARCHITECTURAL METAL FLASHING AND CONSIDERATION AND AIR LEAKAGE CONTROL, FOR DESIGN, JOINTERY AND SECUREMENT OPTIONS FOR FASCIA CAPS.
 4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

6 PERIMETER EDGE DETAIL
Scale: NTS



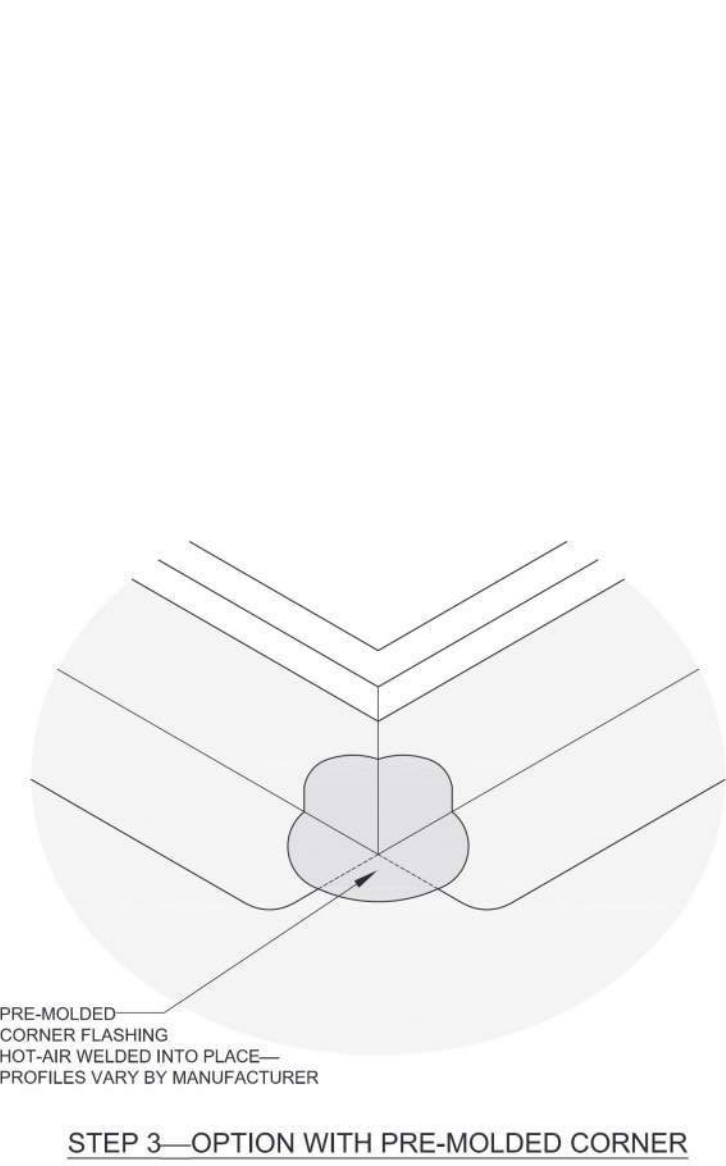
- NOTES:
1. THIS DETAIL DOES NOT ALLOW FOR DIFFERENTIAL MOVEMENT BETWEEN THE DECK AND WALL. SEE DETAIL SP-7 FOR EXPANSION JOINT AT A DECK-TO-WALL LOCATION.
 2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL, ARCHITECTURAL METAL FLASHING AND CONSIDERATION AND AIR LEAKAGE CONTROL, FOR DESIGN, JOINTERY AND SECUREMENT OPTIONS FOR CORNERS.
 4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

5 PARAPET WALL
Scale: NTS



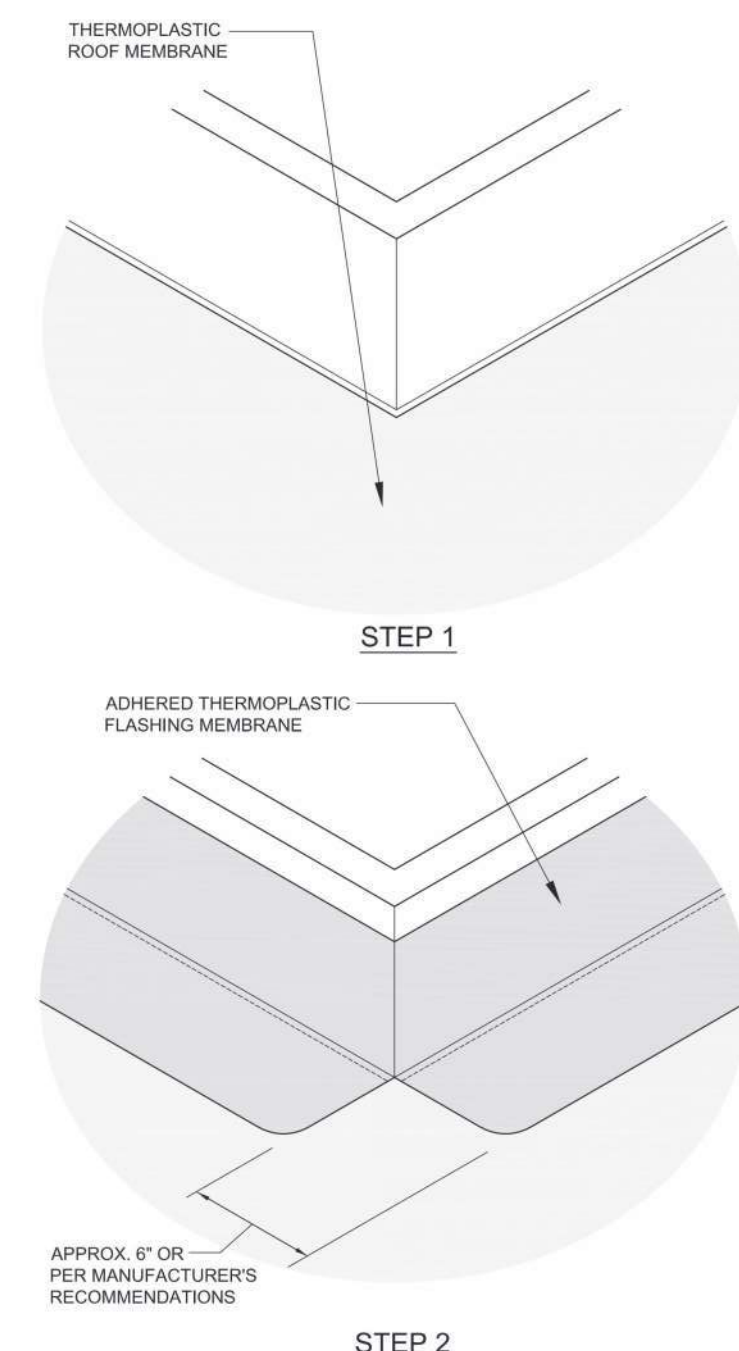
STEP 3—OPTION WITH FIELD-FABRICATED CORNER

4 TPO OUTSIDE CORNER FLASHING
Scale: NTS



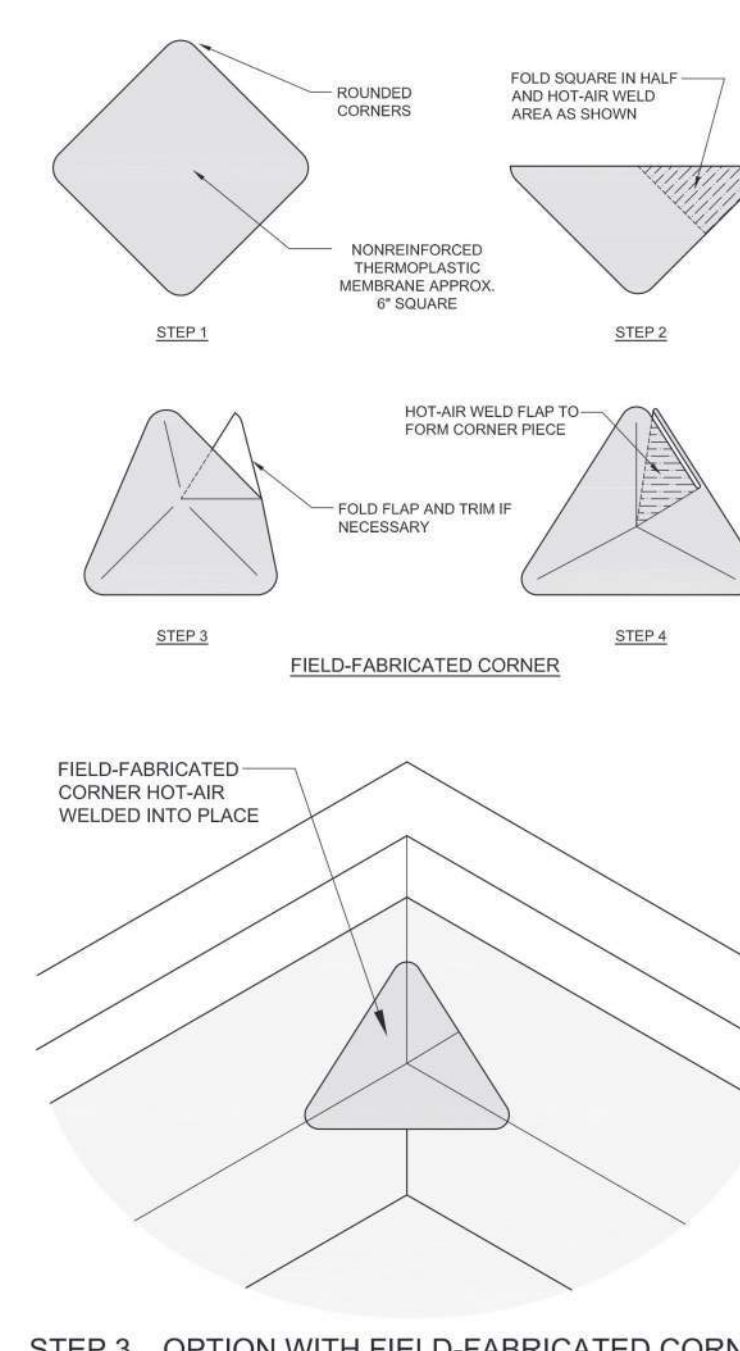
STEP 3—OPTION WITH PRE-MOLDED CORNER

3 TPO OUTSIDE CORNER FLASHING
Scale: NTS



STEP 2

2 TPO OUTSIDE CORNER FLASHING
Scale: NTS



STEP 3—OPTION WITH FIELD-FABRICATED CORNER

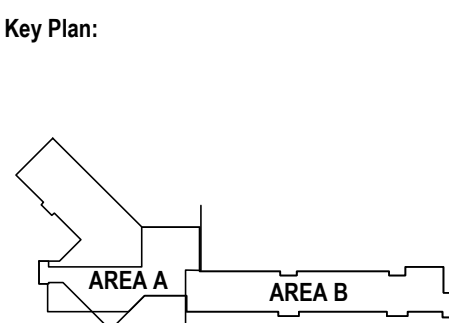
1 TPO INSIDE CORNER FLASHING
Scale: NTS



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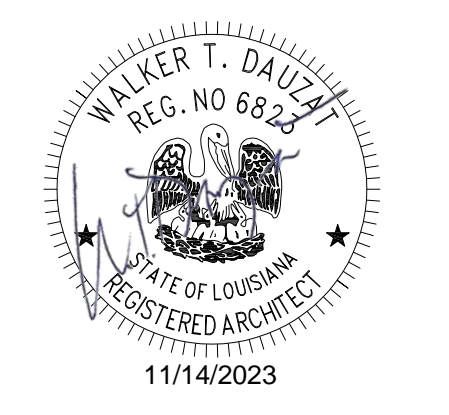
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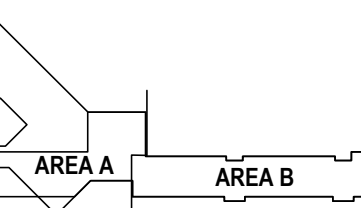


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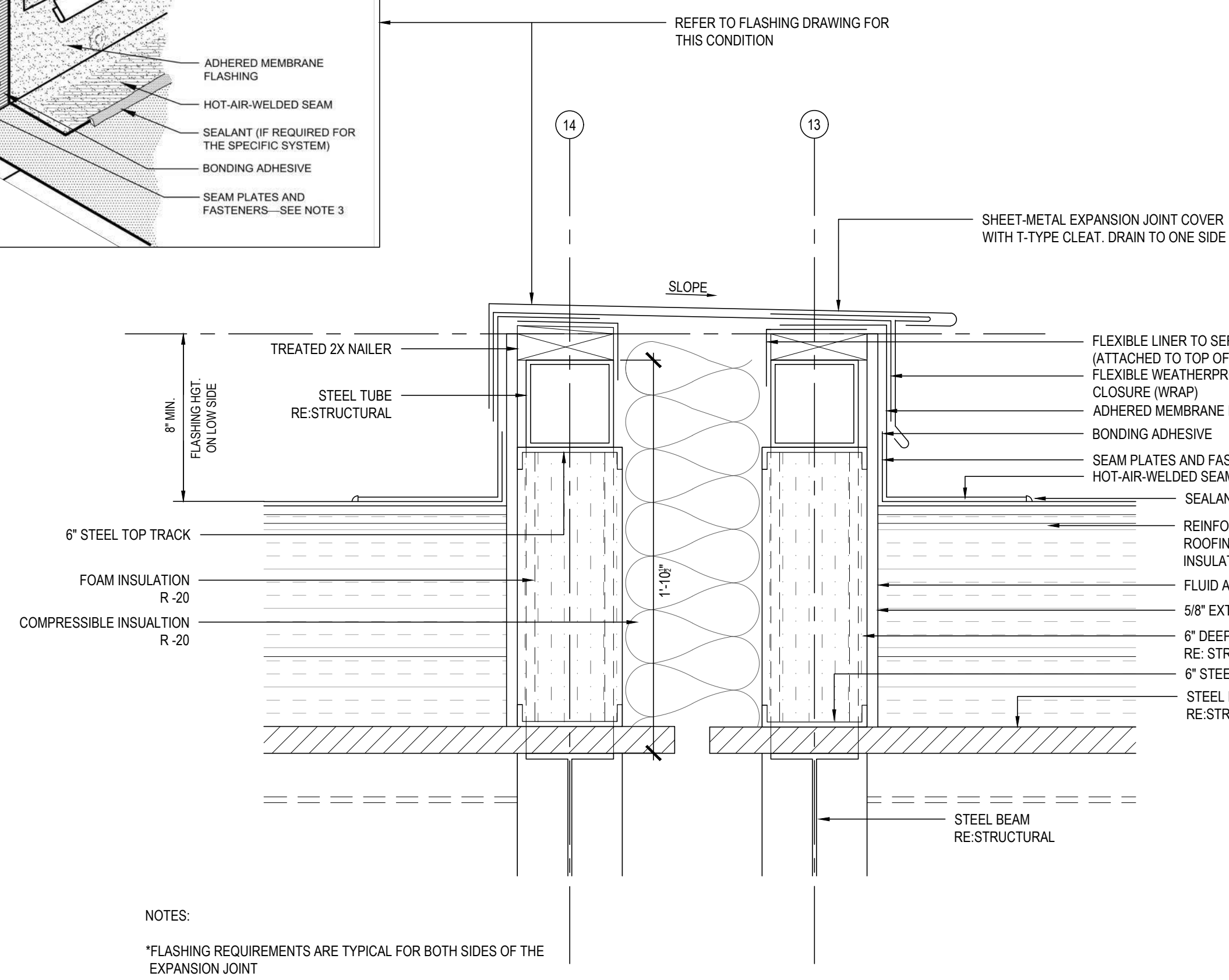
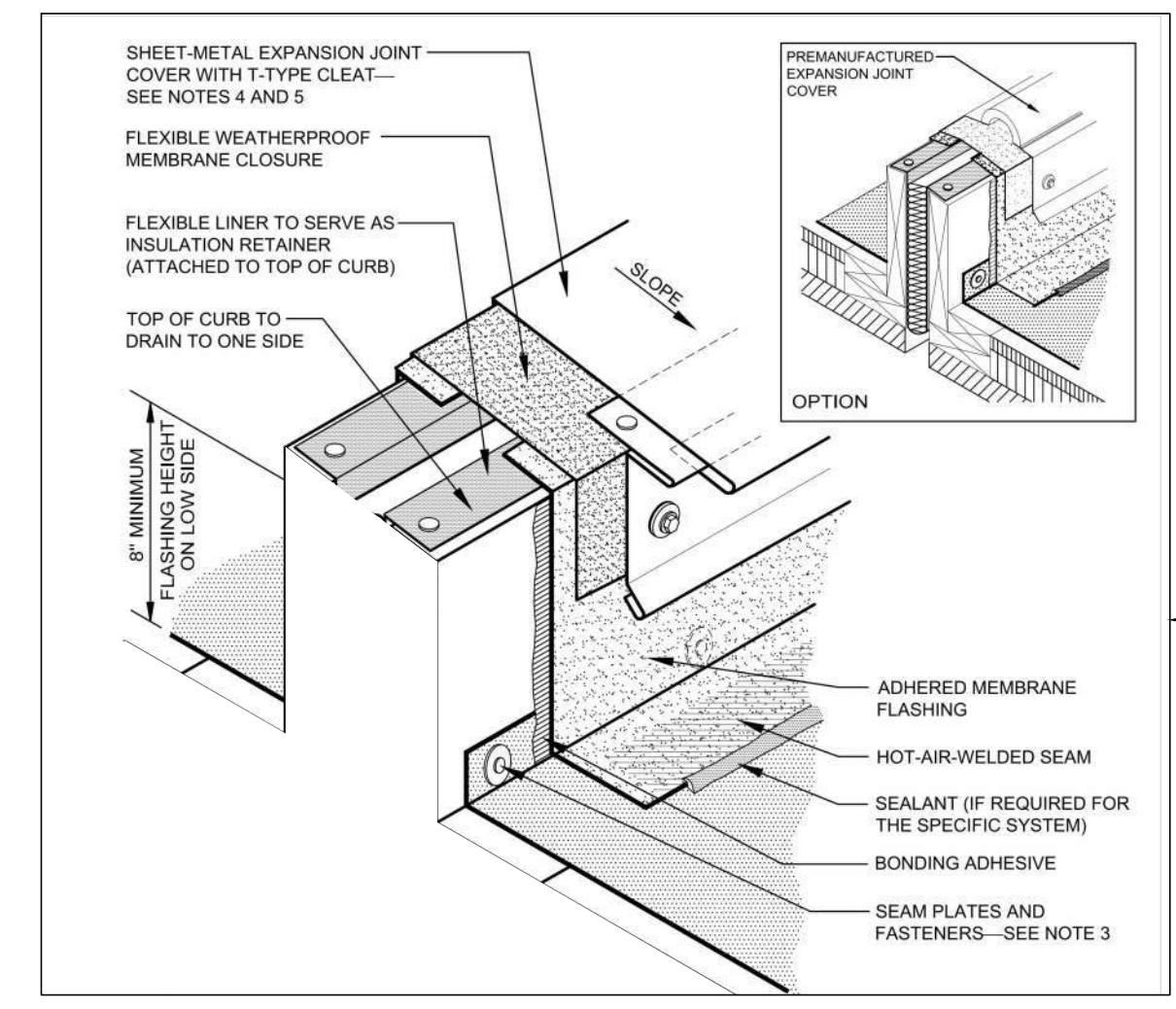
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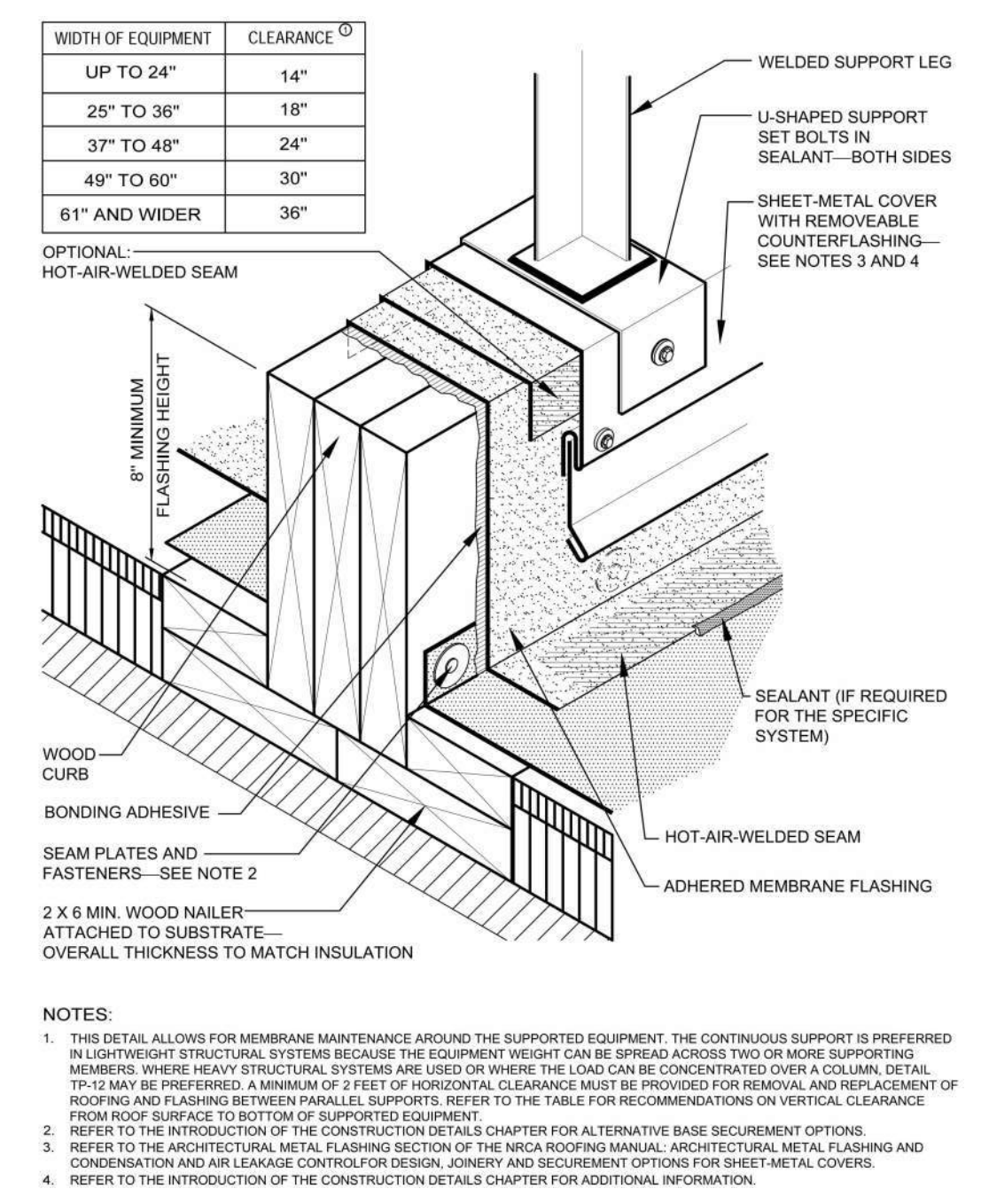


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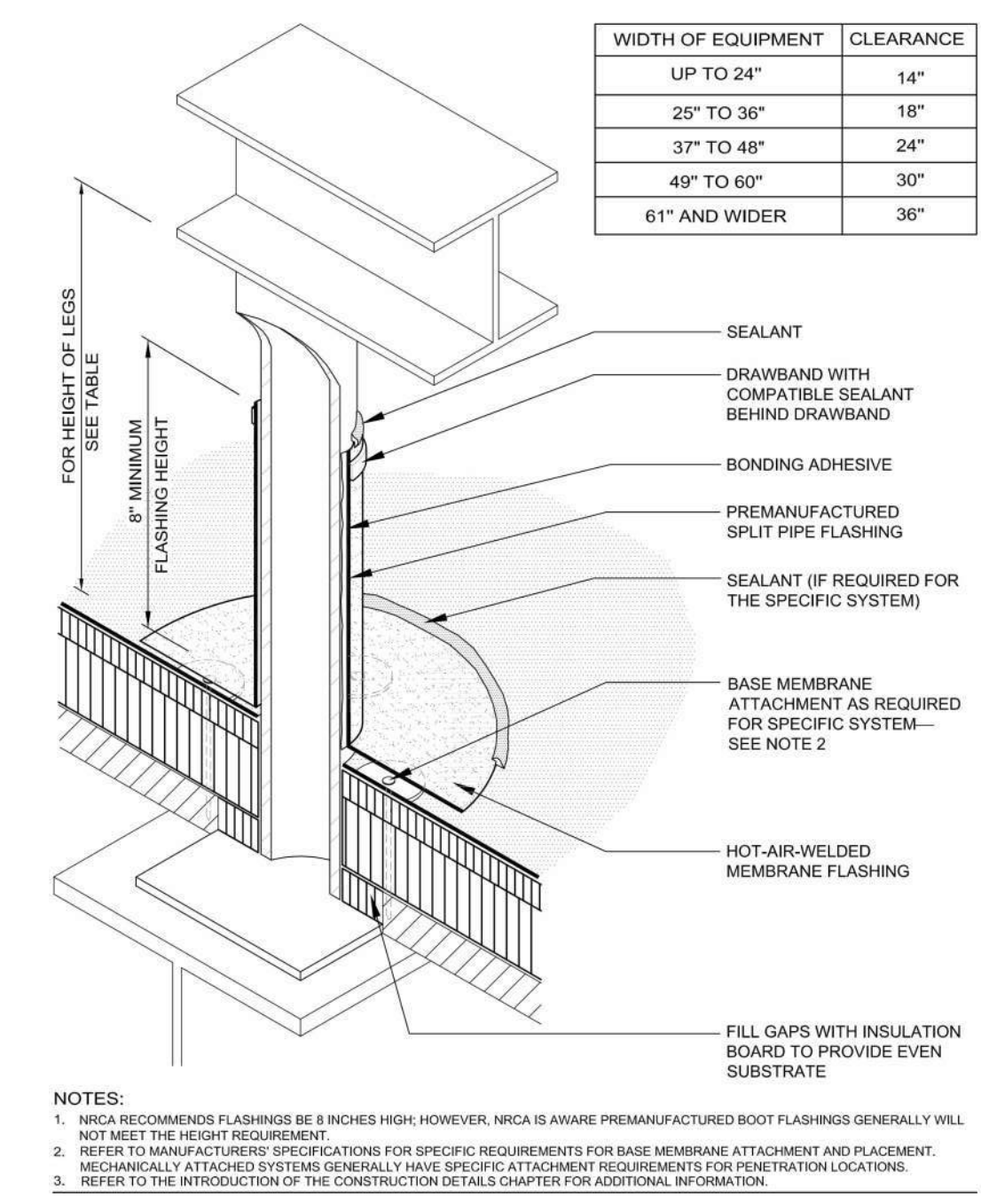
North
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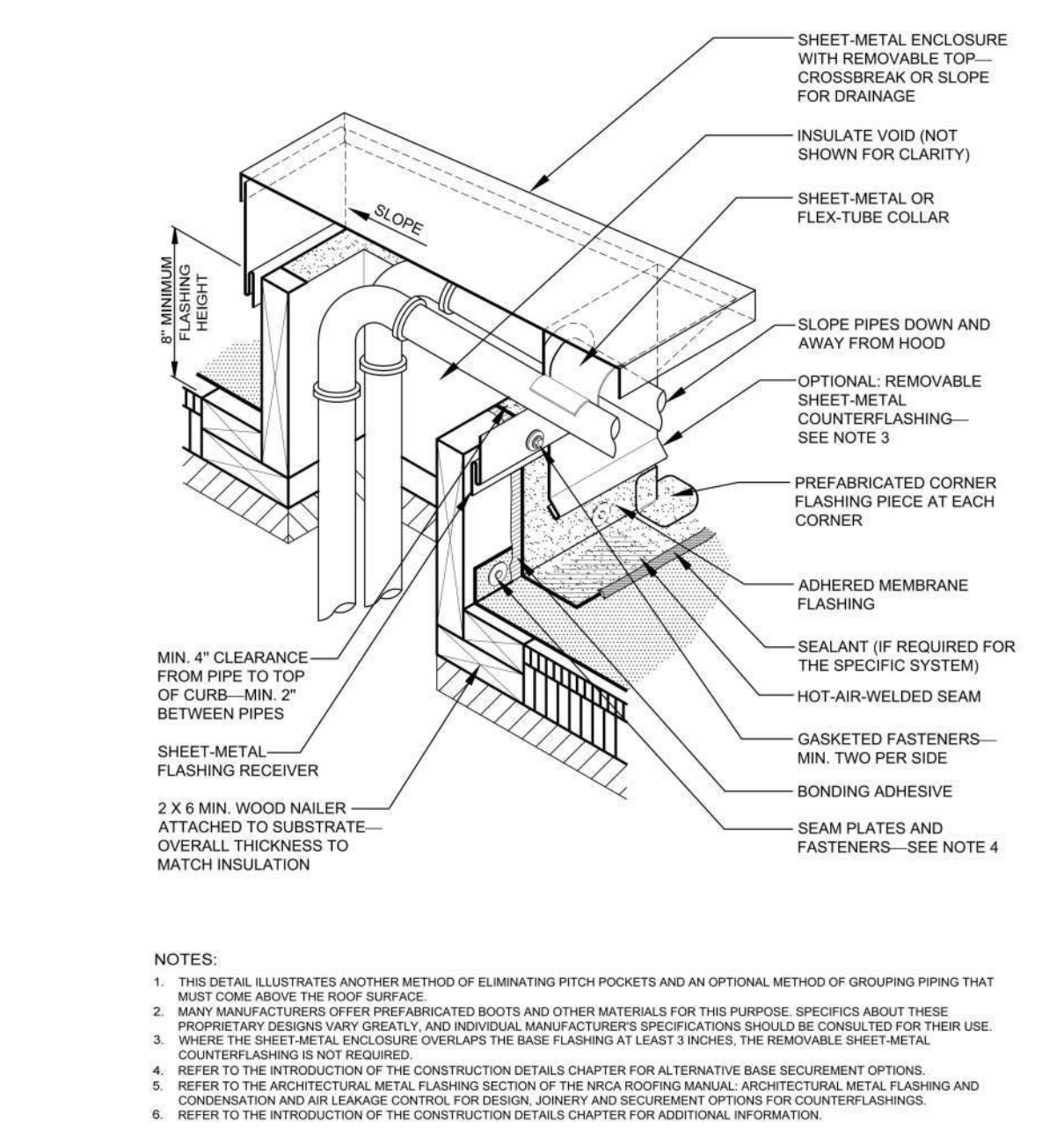
7 EXPANSION JOINT DETAIL
 Scale: NTS



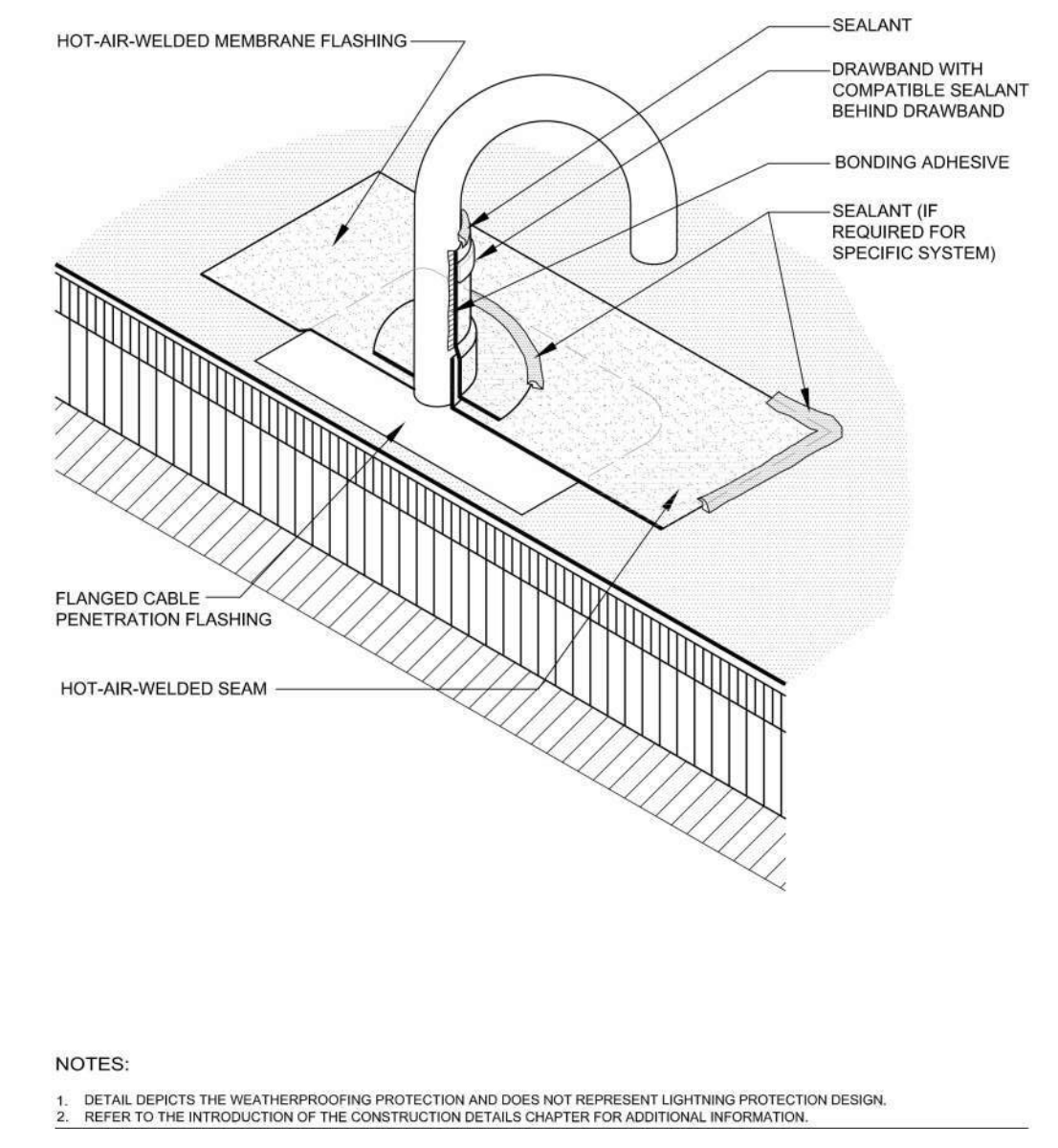
6 LIGHTWEIGHT EQUIPMENT SUPPORT CURB
 Scale: NTS



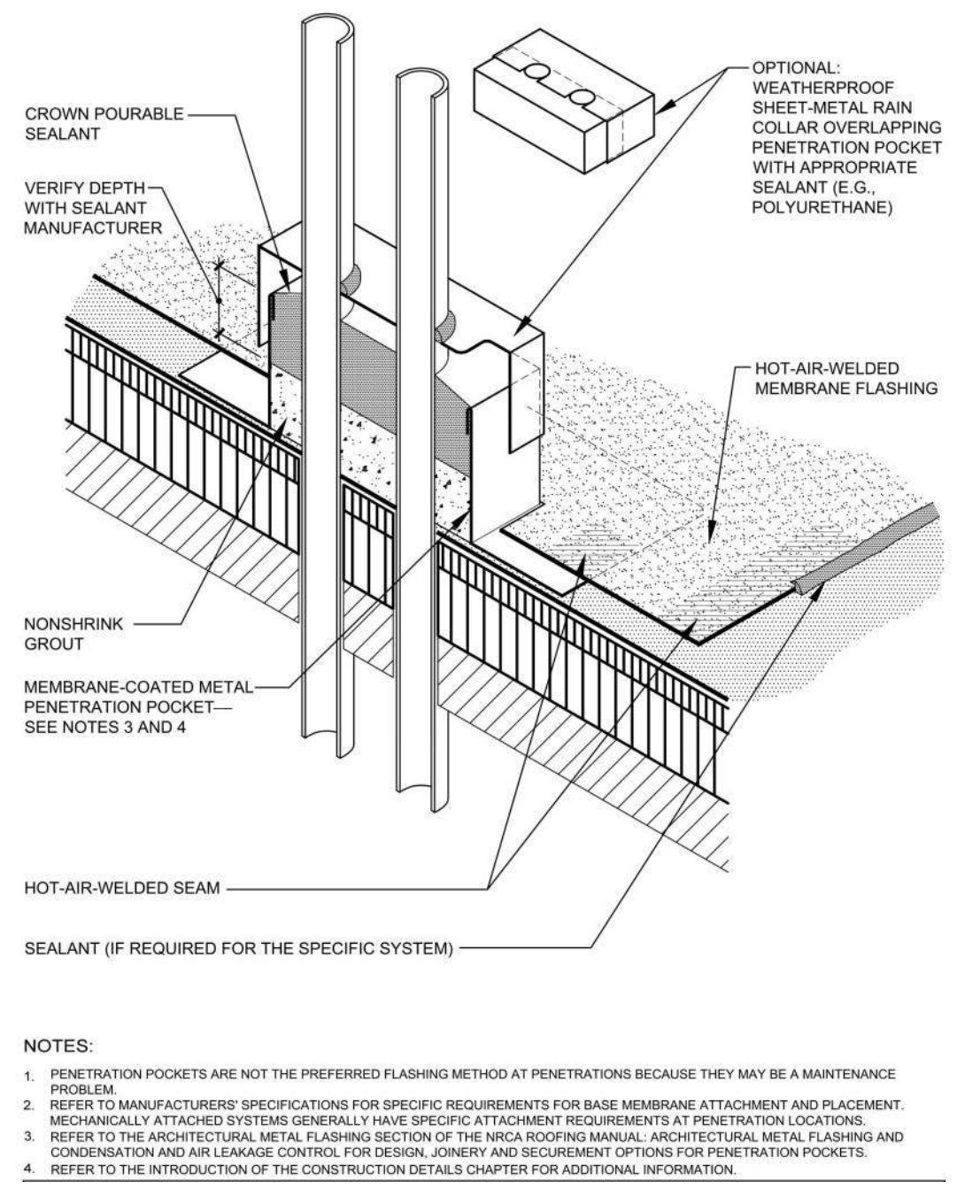
5 EQUIPMENT SUPPORT STAND
 Scale: NTS



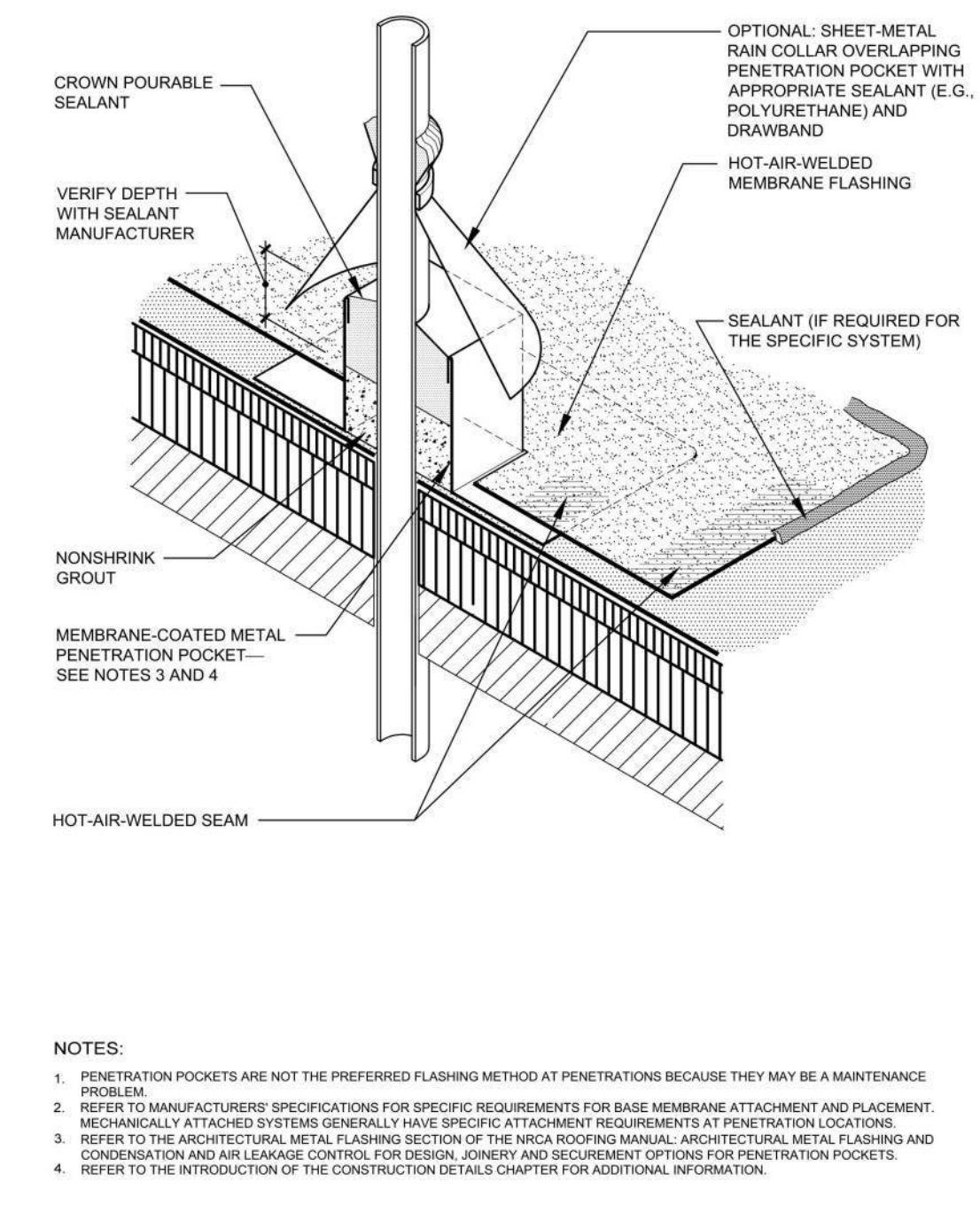
4 PIPE ENCLOSURE
 Scale: NTS



3 CABLE PENETRATION
 Scale: NTS



2 PENETRATION POCKET - DOUBLE
 Scale: NTS



1 PENETRATION POCKET - SINGLE
 Scale: NTS

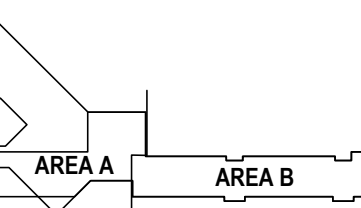


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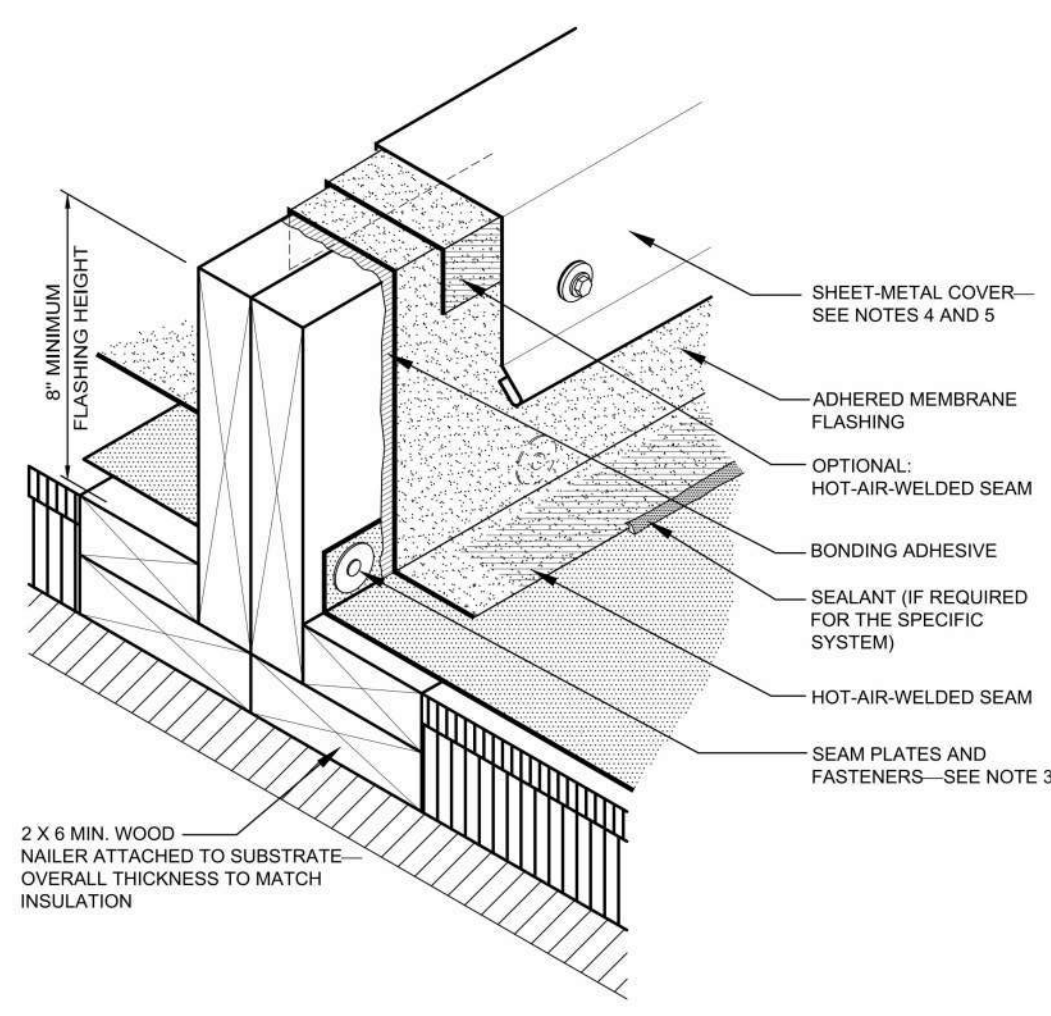
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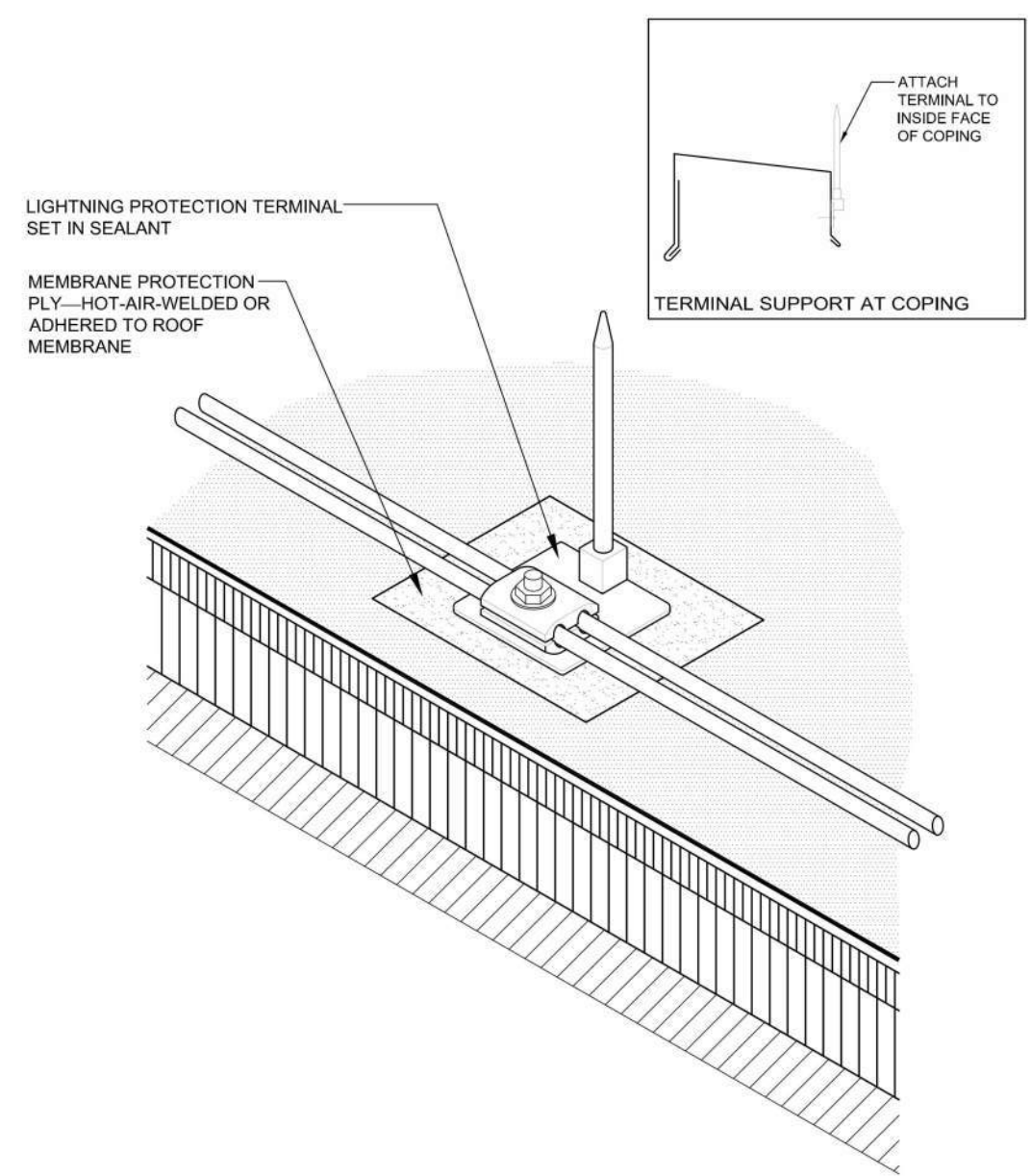
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 Roofing Details

North
A8.04



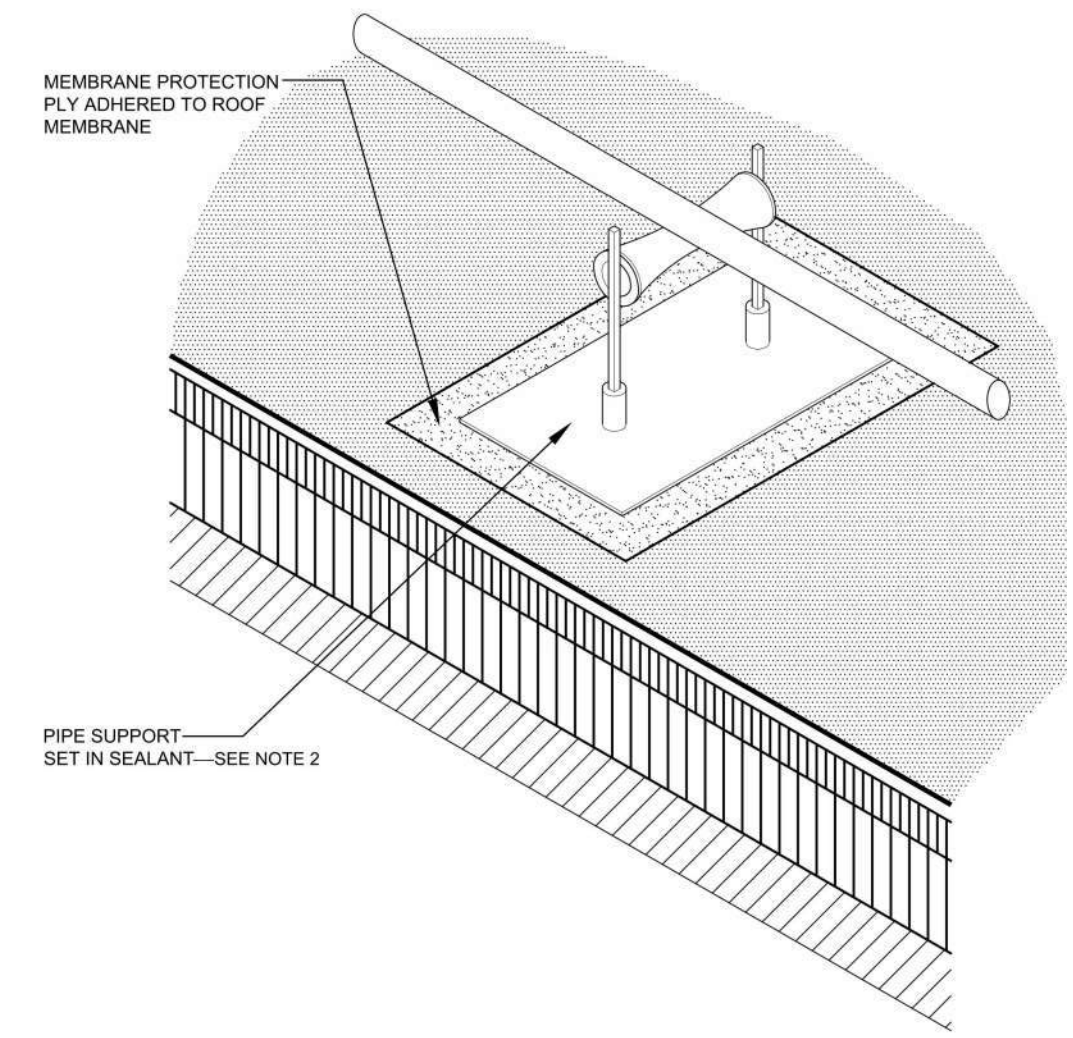
- NOTES:
1. AN AREA DIVIDER SHOULD NEVER RESTRICT THE FLOW OF WATER.
 2. FLASHING REQUIREMENTS ARE TYPICAL FOR BOTH SIDES OF THE AREA DIVIDER.
 3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 4. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL, ARCHITECTURAL METAL FLASHING AND CONDENSATION AND AIR LEAKAGE CONTROL, FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL COVERS.
 5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

8 AREA DIVIDER
 Scale: NTS



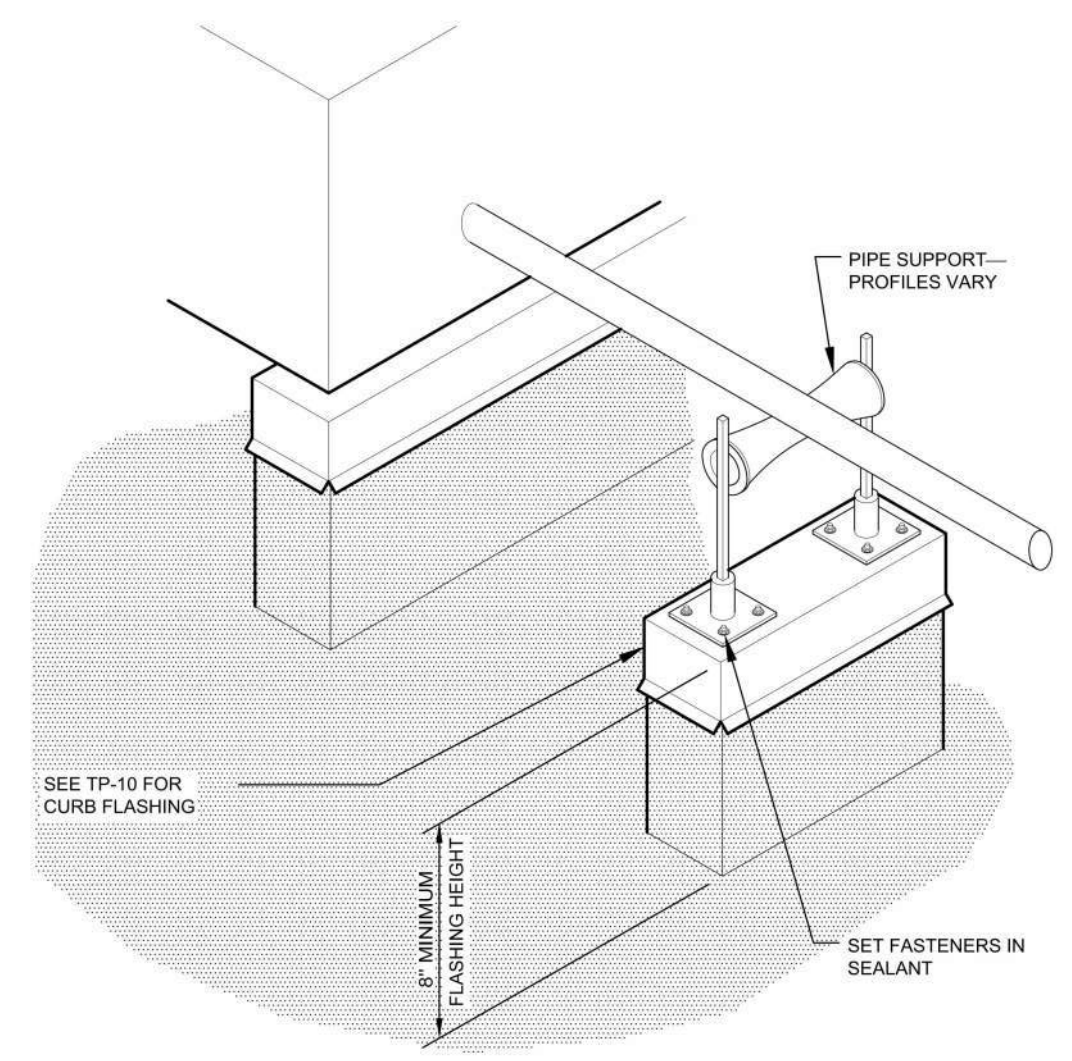
- NOTES:
1. DETAIL DEFICITS THE WEATHERPROOFING PROTECTION AND DOES NOT REPRESENT LIGHTNING PROTECTION DESIGN.
 2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

7 LIGHTNING PROTECTION TERMINAL
 Scale: NTS



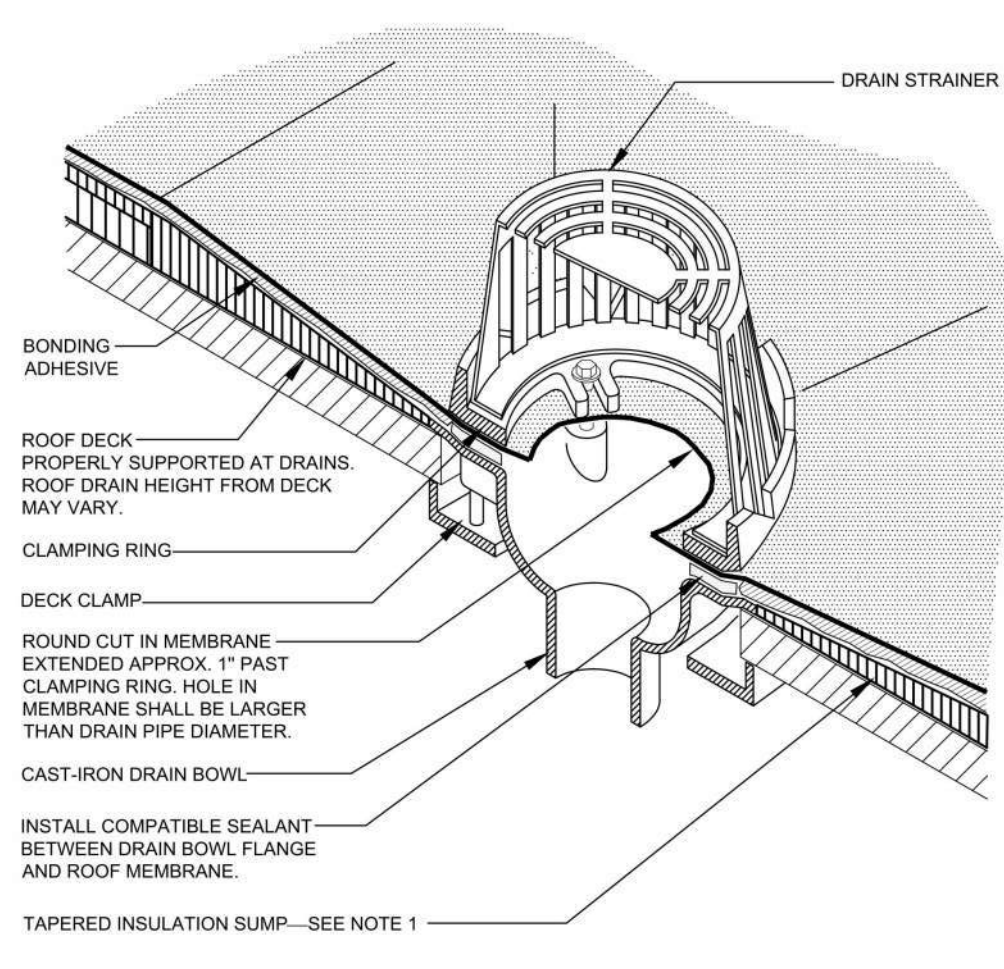
- NOTES:
1. THIS DETAIL IS DESIGNED TO ELIMINATE ROOF DAMAGE RESULTING FROM EXPANSION AND CONTRACTION OF PIPES. PIPE SUPPORTS MAY VARY.
 2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

6 PIPE SUPPORT
 Scale: NTS



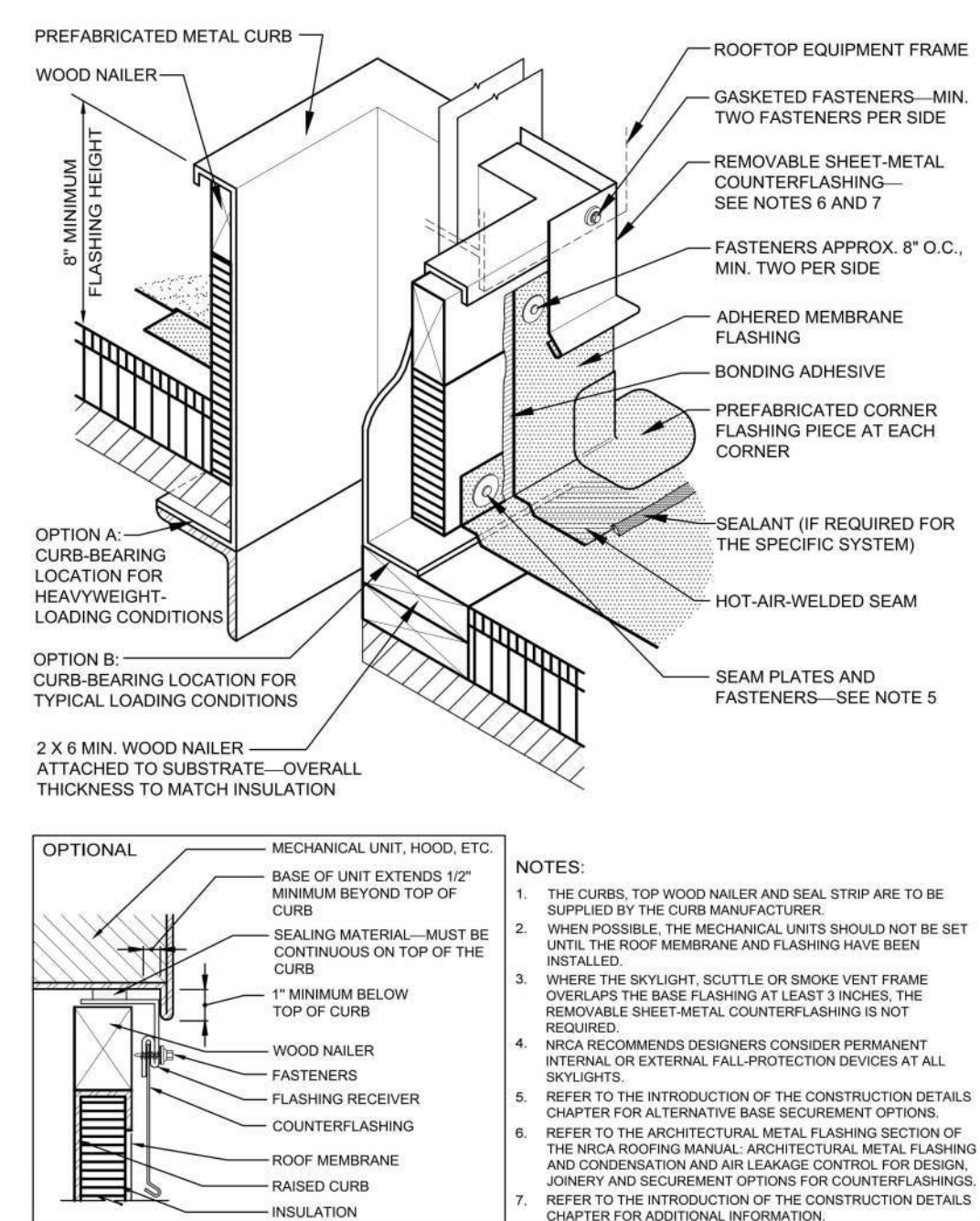
- NOTES:
1. THIS DETAIL IS DESIGNED TO ELIMINATE ROOF DAMAGE RESULTING FROM EXPANSION AND CONTRACTION OF PIPES. PIPE SUPPORT PROFILES VARY.
 2. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL, ARCHITECTURAL METAL FLASHING AND CONDENSATION AND AIR LEAKAGE CONTROL, FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL COVERS.
 3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

5 PIPE SUPPORT CURB
 Scale: NTS



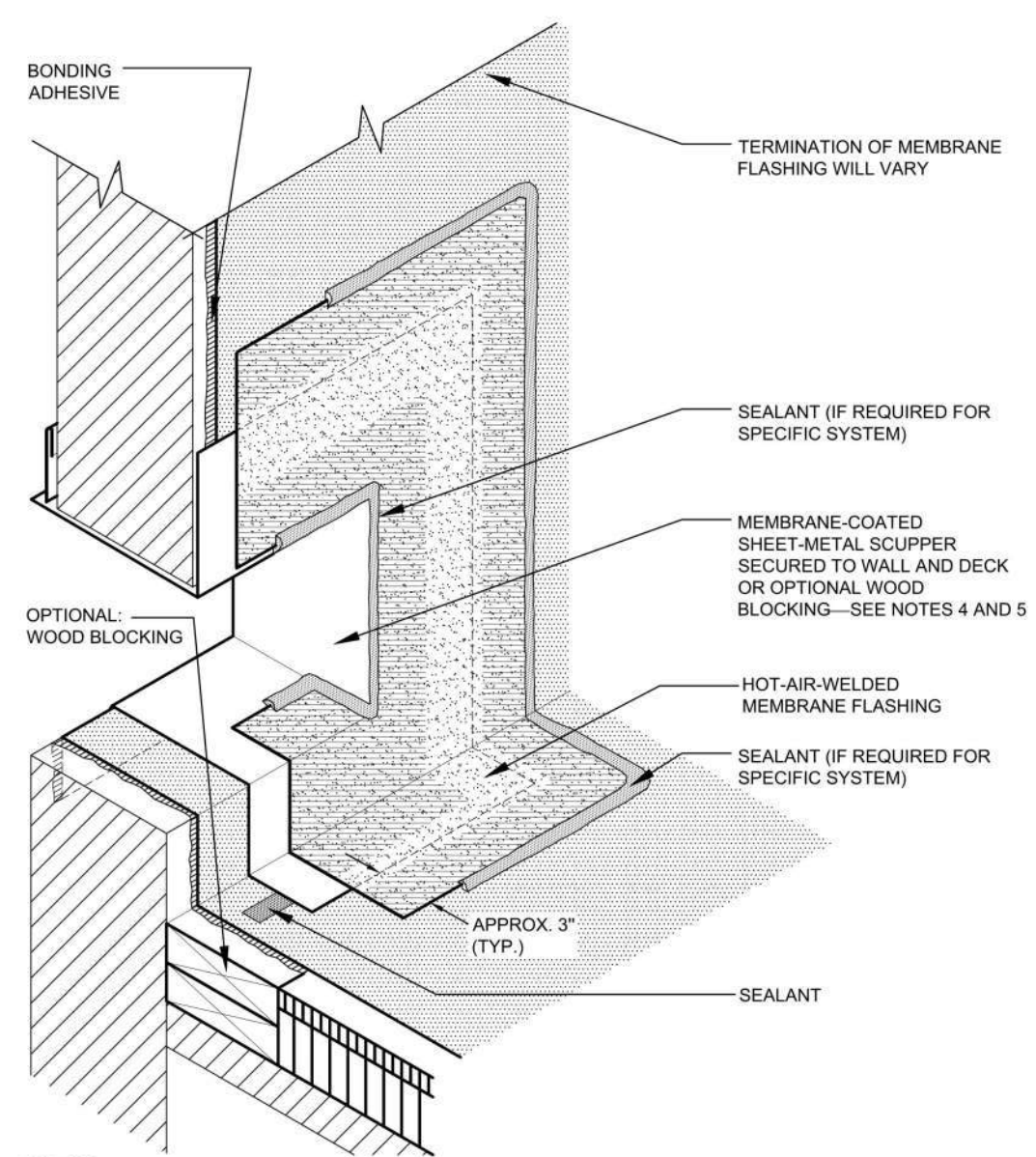
- NOTES:
1. THE USE OF A METAL DECK SLUMP PAN IS NOT RECOMMENDED. HOWEVER, DRAIN RECEIVER BEARING PLATES ARE APPLICABLE WITH SOME PRODUCTS.
 2. THE DESIGNER SHOULD CONSIDER RESULTING THE DRAIN COMPONENTS BELOW THE DECK TO PREVENT POTENTIAL CONDENSATION.
 3. MEMBRANE SEAMS SHOULD NOT INTERSECT DRAIN CLAMPING RING. SEAMS THAT FALL WITHIN DRAIN SUMP SHOULD BE STRIPPED IN.
 4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

4 ROOF DRAIN
 Scale: NTS



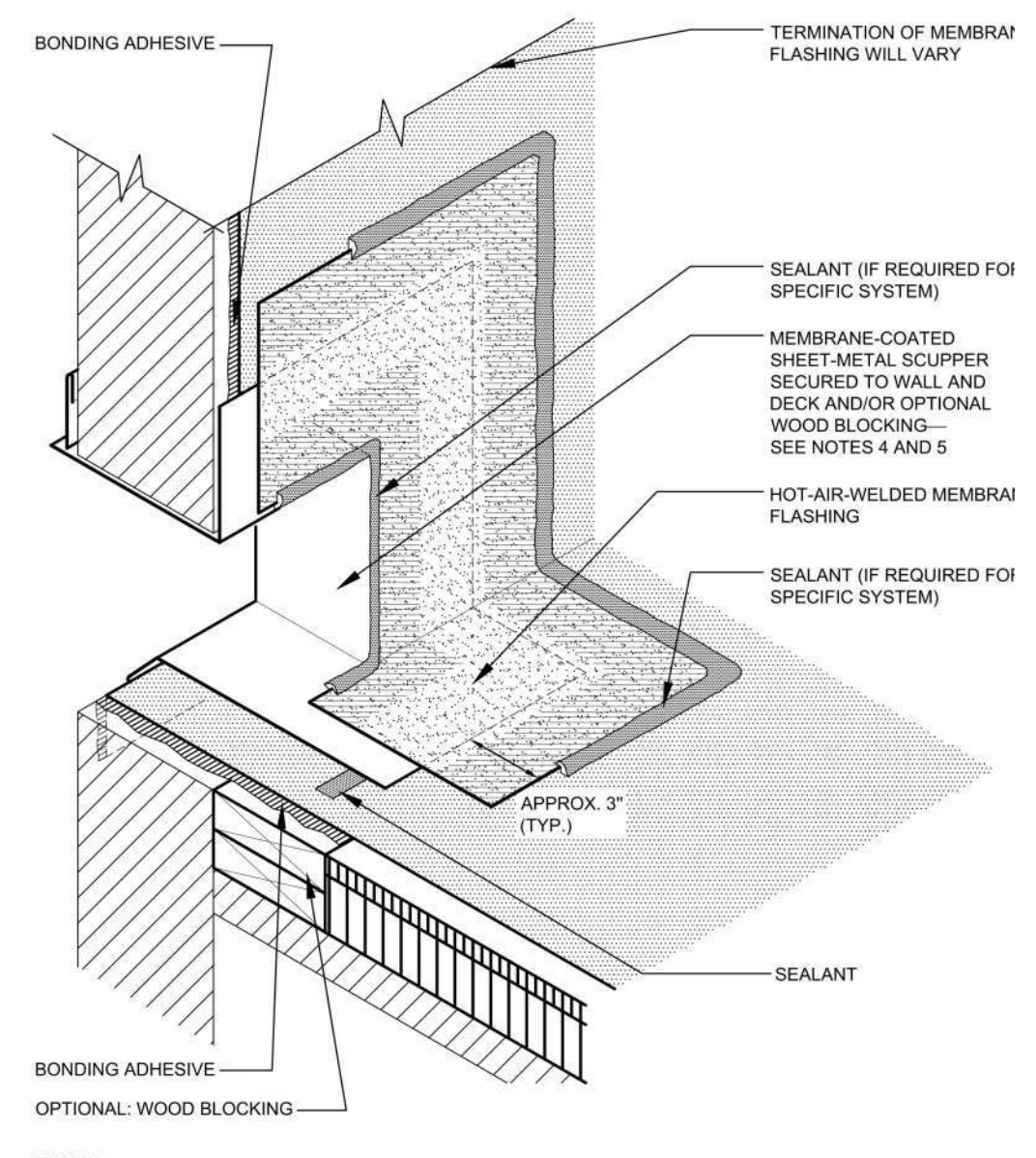
- NOTES:
1. THE CURBS, TOP WOOD NAILER AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
 2. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.
 3. WHERE THE SKYLIGHT, SCUTTLE OR SMOKE VENT FRAME OVERLAPS THE BASE FLASHING AT LEAST 3 INCHES, THE REMOVABLE SHEET METAL COUNTERFLASHING IS NOT REQUIRED.
 4. NRCA RECOMMENDS DESIGNERS CONSIDER PERMANENT INTERNAL OR EXTERNAL FALL-PROTECTION DEVICES AT ALL SKYLIGHTS.
 5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 6. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL, ARCHITECTURAL METAL FLASHING AND CONDENSATION AND AIR LEAKAGE CONTROL, FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR COUNTERFLASHINGS.
 7. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

3 PRE-FAB METAL CURB
 Scale: NTS



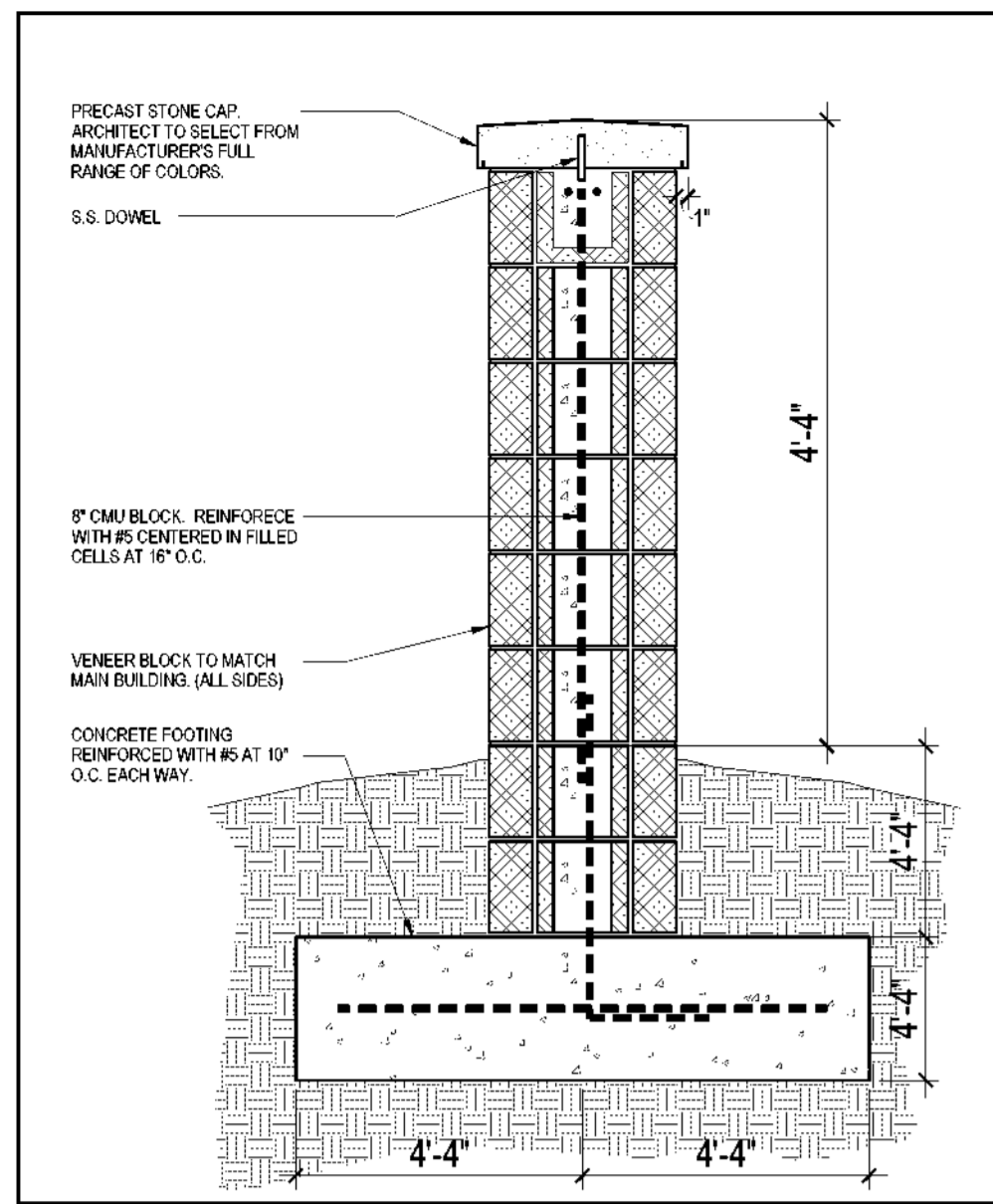
- NOTES:
1. THIS DETAIL DOES NOT ALLOW FOR DIFFERENTIAL MOVEMENT BETWEEN THE DECK AND WALL.
 2. ELEVATION OF SCUPPER MAY VARY.
 3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 4. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL, ARCHITECTURAL METAL FLASHING AND CONDENSATION AND AIR LEAKAGE CONTROL, FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR SCUPPERS.
 5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

2 OVERFLOW SCUPPER DETAIL
 Scale: NTS

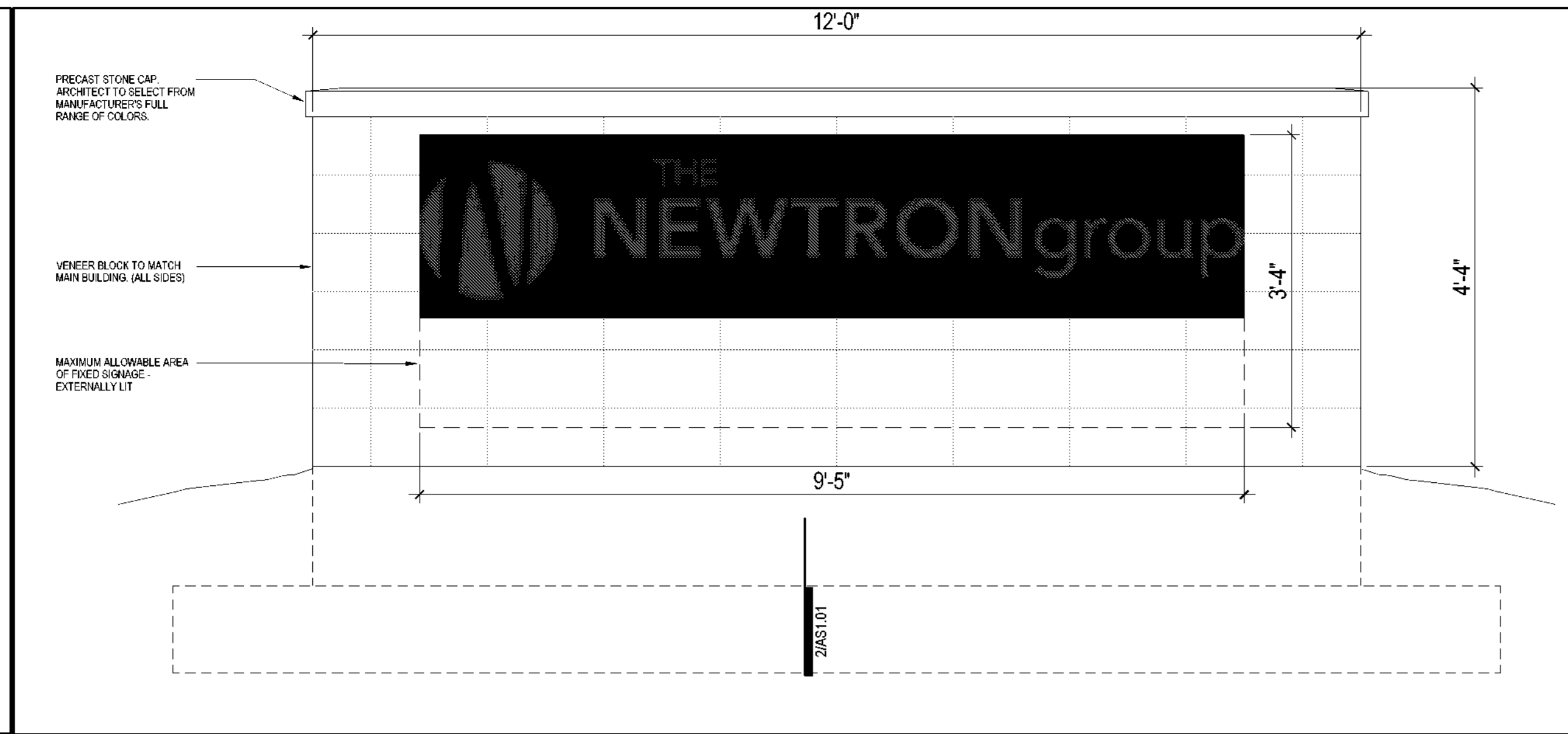


- NOTES:
1. THIS DETAIL DOES NOT ALLOW FOR DIFFERENTIAL MOVEMENT BETWEEN THE DECK AND WALL.
 2. CONCRETE HEAD TO BE 1 INCH MINIMUM BELOW BOTTOM OF THROUGH-WALL SCUPPER.
 3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 4. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL, ARCHITECTURAL METAL FLASHING AND CONDENSATION AND AIR LEAKAGE CONTROL, FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR SCUPPERS.
 5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

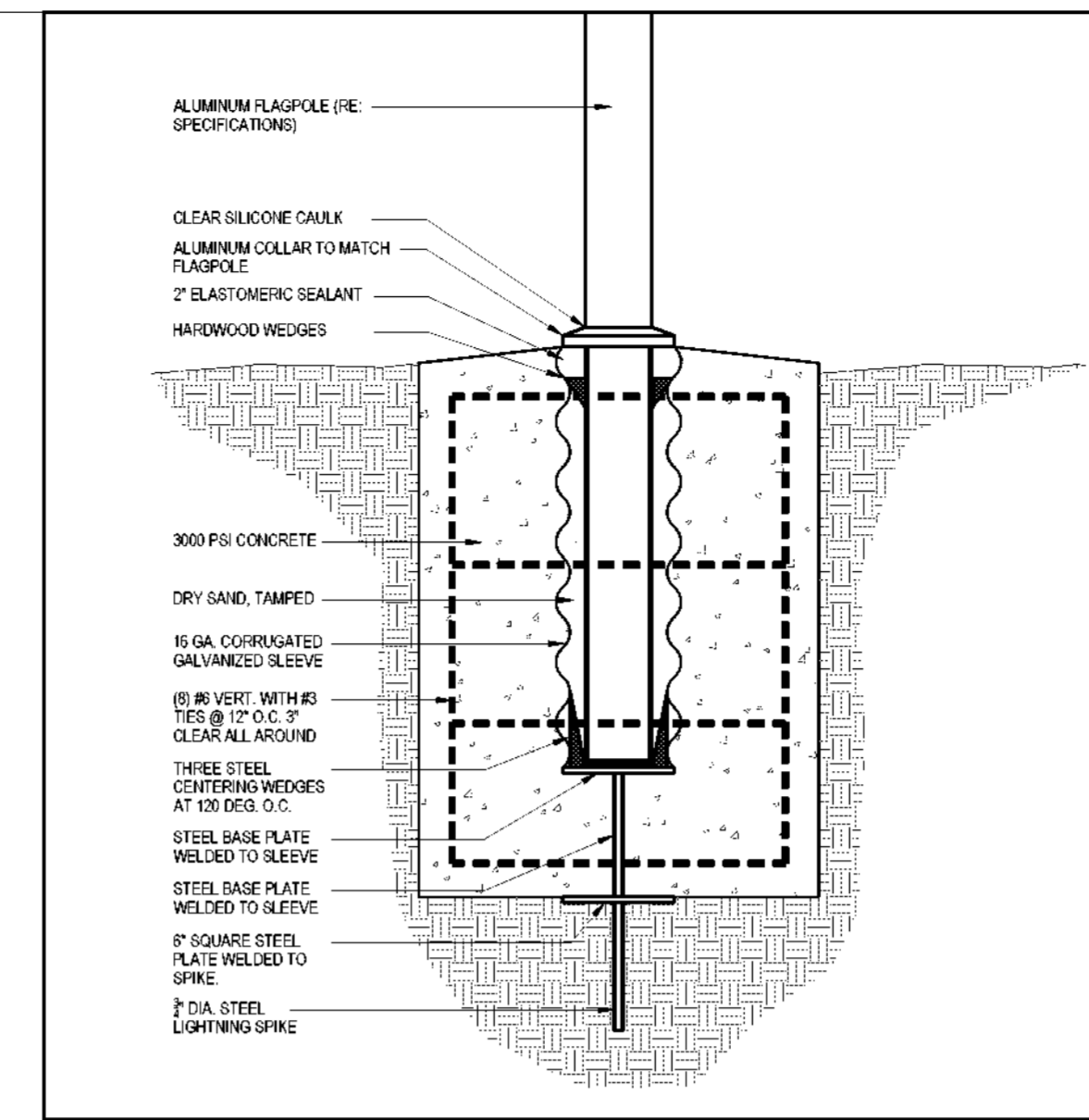
1 WALL SCUPPER DETAIL
 Scale: NTS



2 Monument Sign Detail
Scale: 3/4" = 1'-0"



3 Monument Sign Detail
Scale: 3/4" = 1'-0"



4 Flag Pole Foundation Detail
Scale: 3/4" = 1'-0"

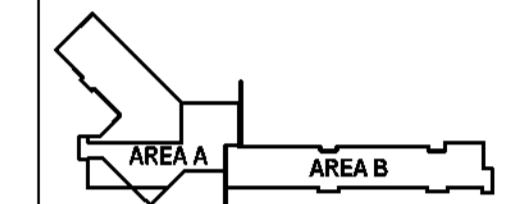
SITE PLAN KEYNOTES:

- 1 CONCRETE SIDEWALK PAVING (RE: CIVIL)
- 2 CONCRETE PAVING (RE: CIVIL)
- 3 DUMPSTER ENCLOSURE (RE: AS1.02)
- 4 FLAG POLES (1) 30' FLAGPOLE (2) 25' FLAGPOLES (RE: 4/AS1.01)
- 5 POND FOUNTAIN (RE: SPECIFICATIONS)
- 6 MONUMENT SIGN (RE: 3/AS1.01)
- 7 MAIN ENTRY GATE / MASONRY COLUMNS (RE: AS1.02)
- 8 LIGHTED BOLLARDS (RE: ELECTRICAL)
- 9 PAD MOUNTED TRANSFORMER (RE: ELECTRICAL)
- 10 UTILITY YARD / GENERATOR LOCATION
- 11 BACKFLOW PREVENTER LOCATION (RE: CIVIL)
- 12 ARTIFICIAL TURF OVER CONCRETE PAVING (RE: SPECIFICATIONS)

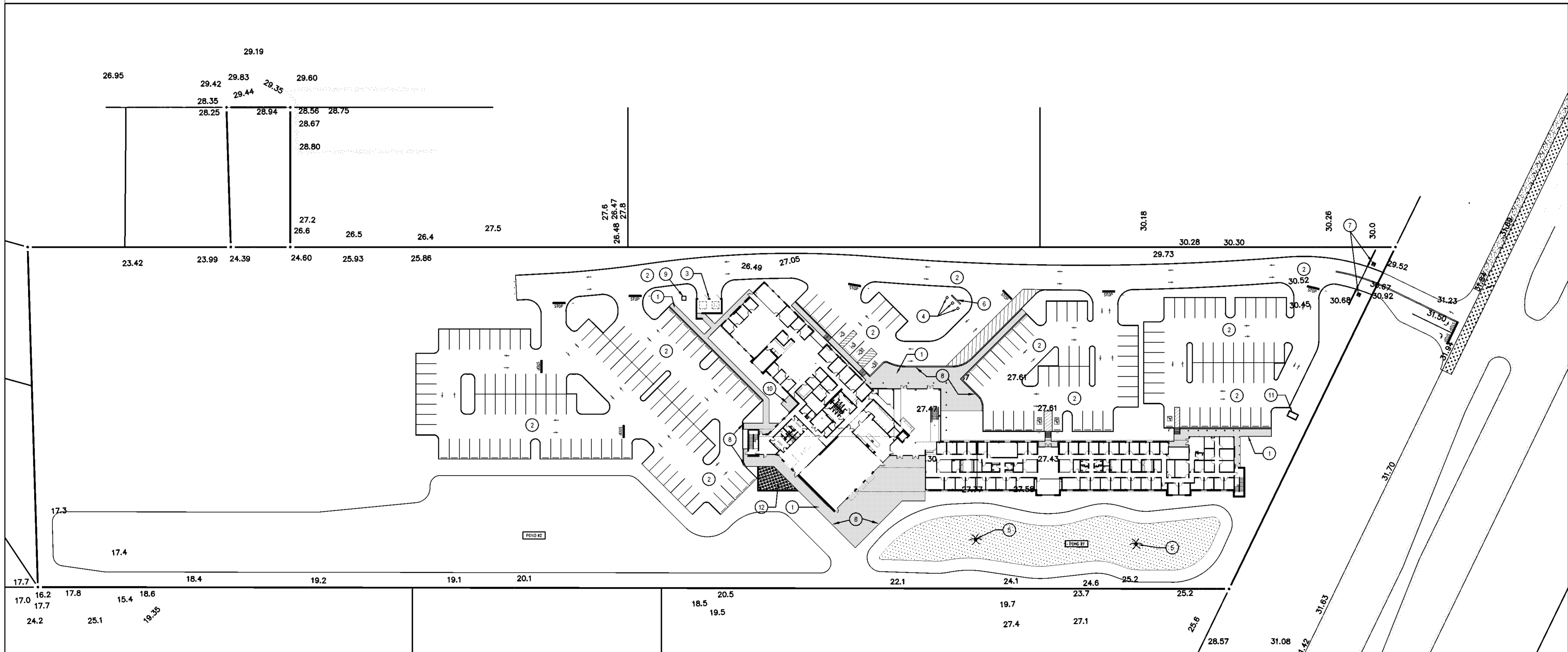
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Key Plan:



Consultants:



1 Architectural Site Plan
Scale: 1" = 50'-0"

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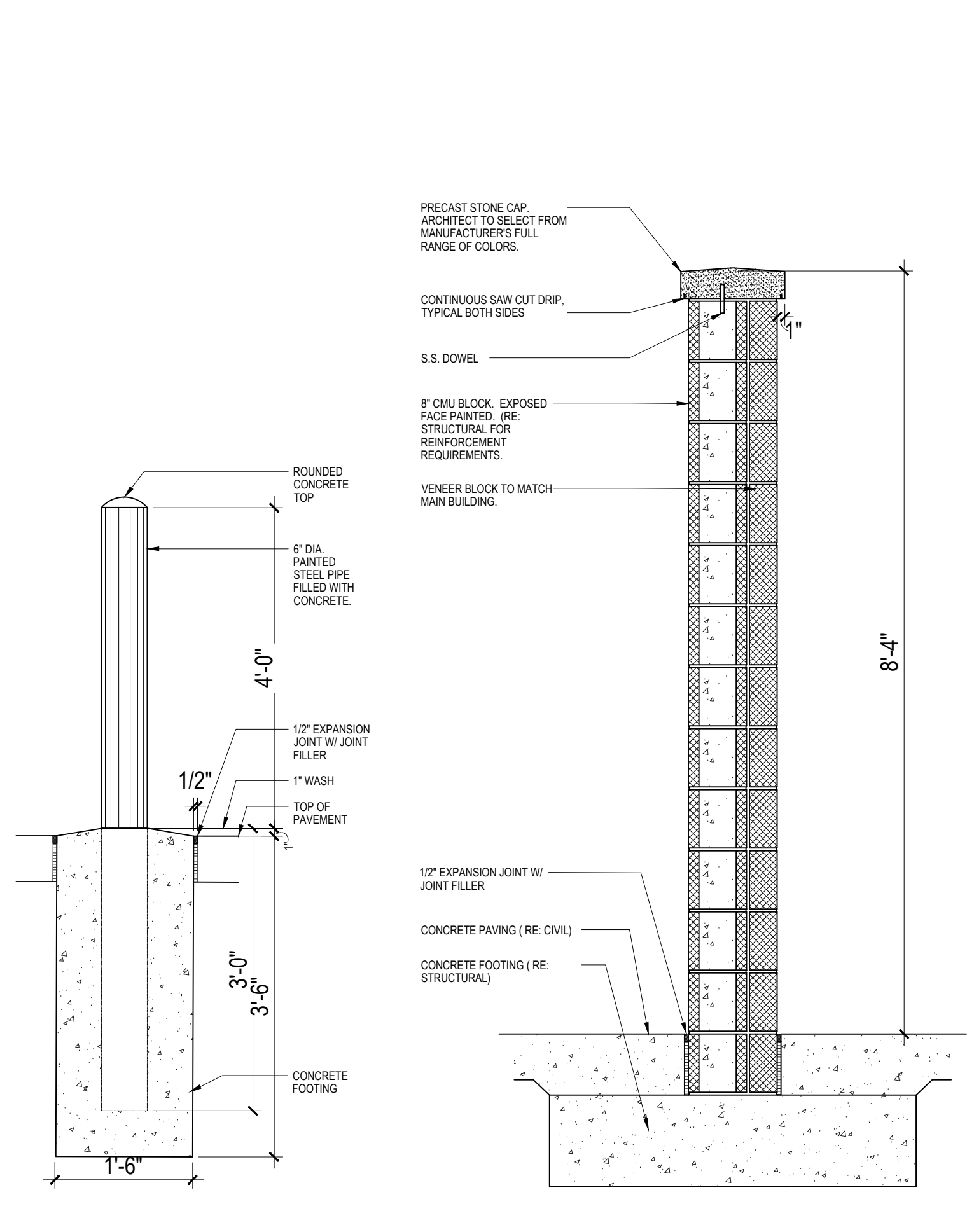
Professional Seal

Scale: 1" = 50'-0"

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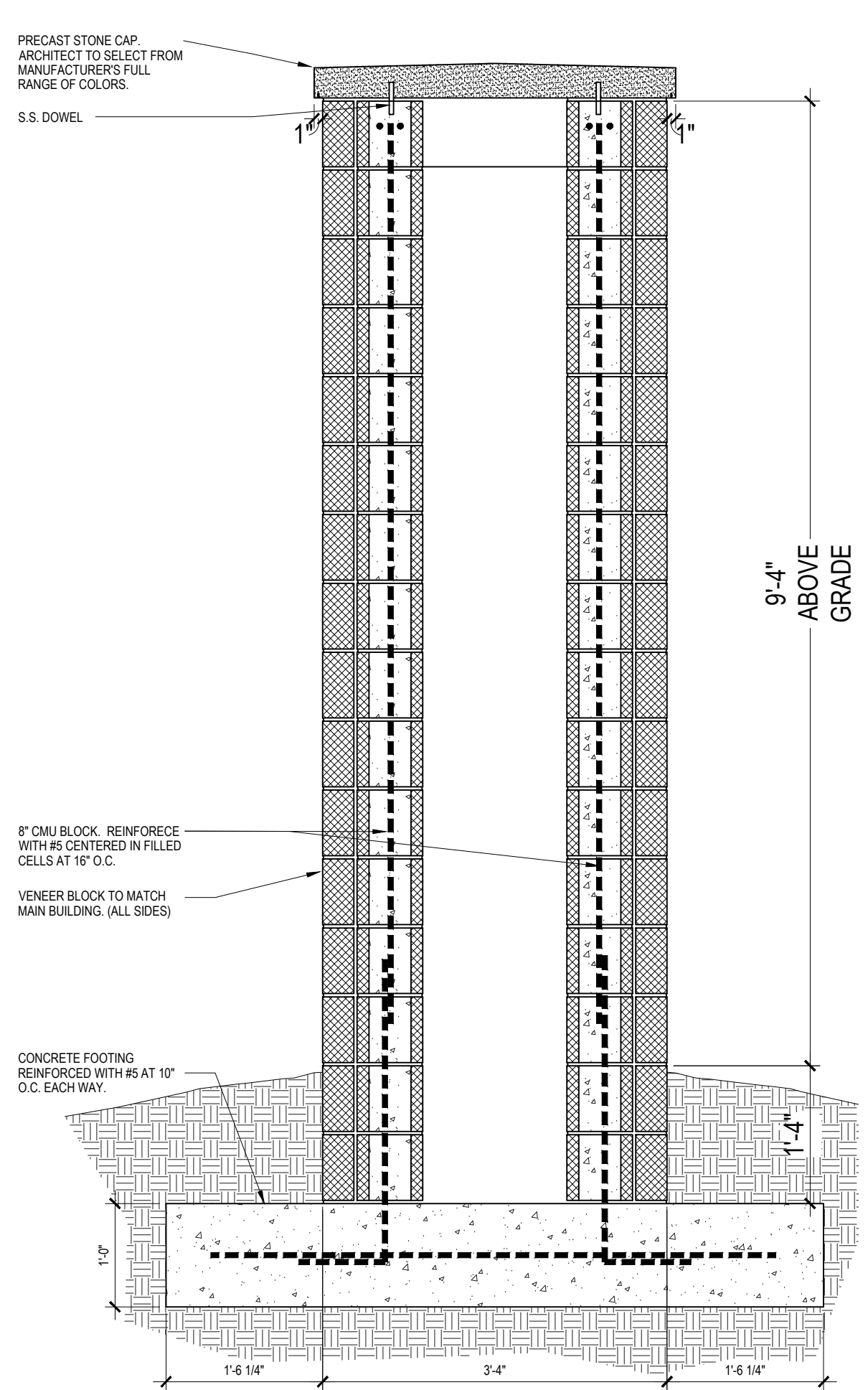
First Floor Plan

North **AS1.01**

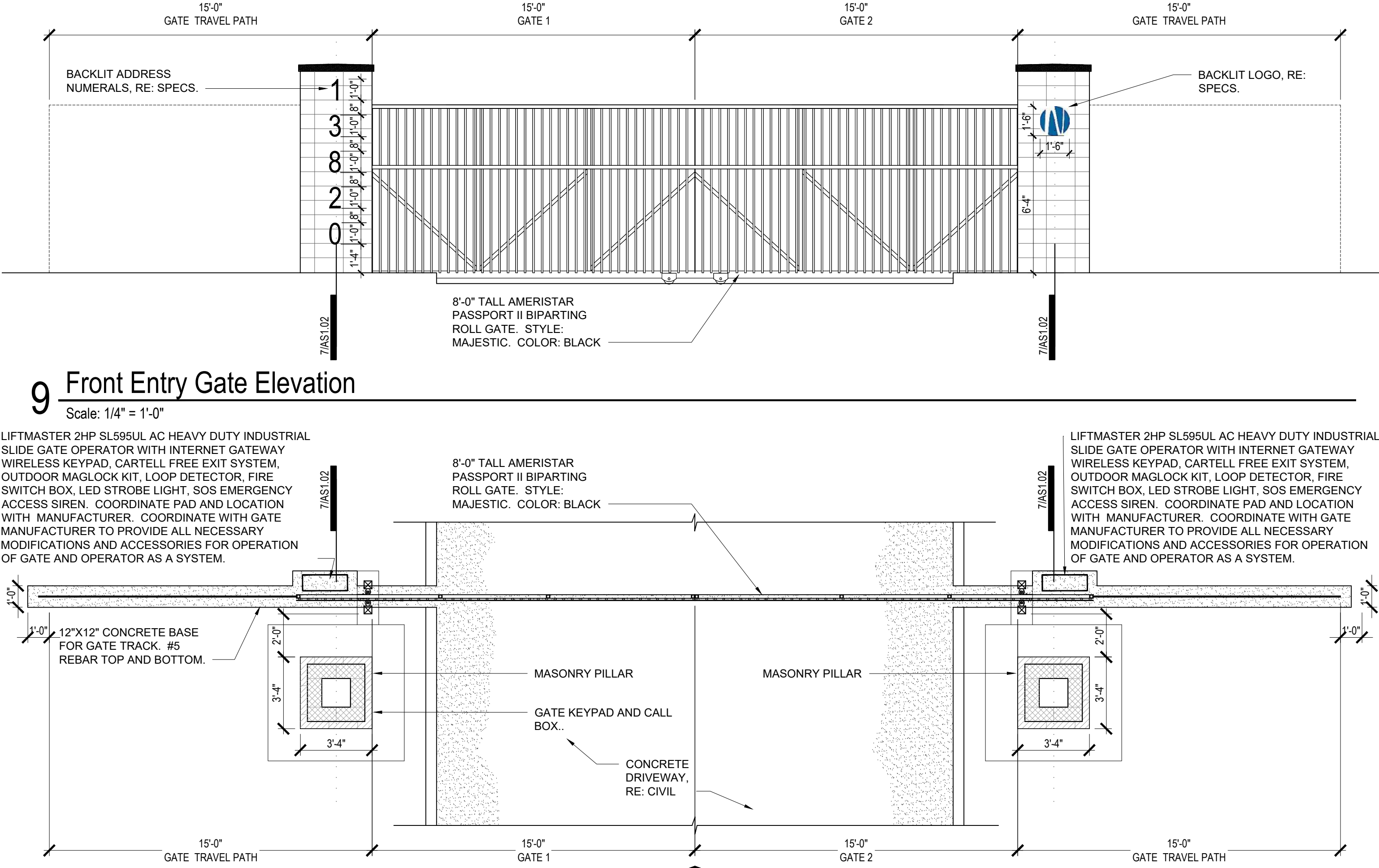


5 Bollard Detail
Scale: 3/4" = 1'-0"

6 Dumpster Enclosure Wall Section
Scale: 3/4" = 1'-0"

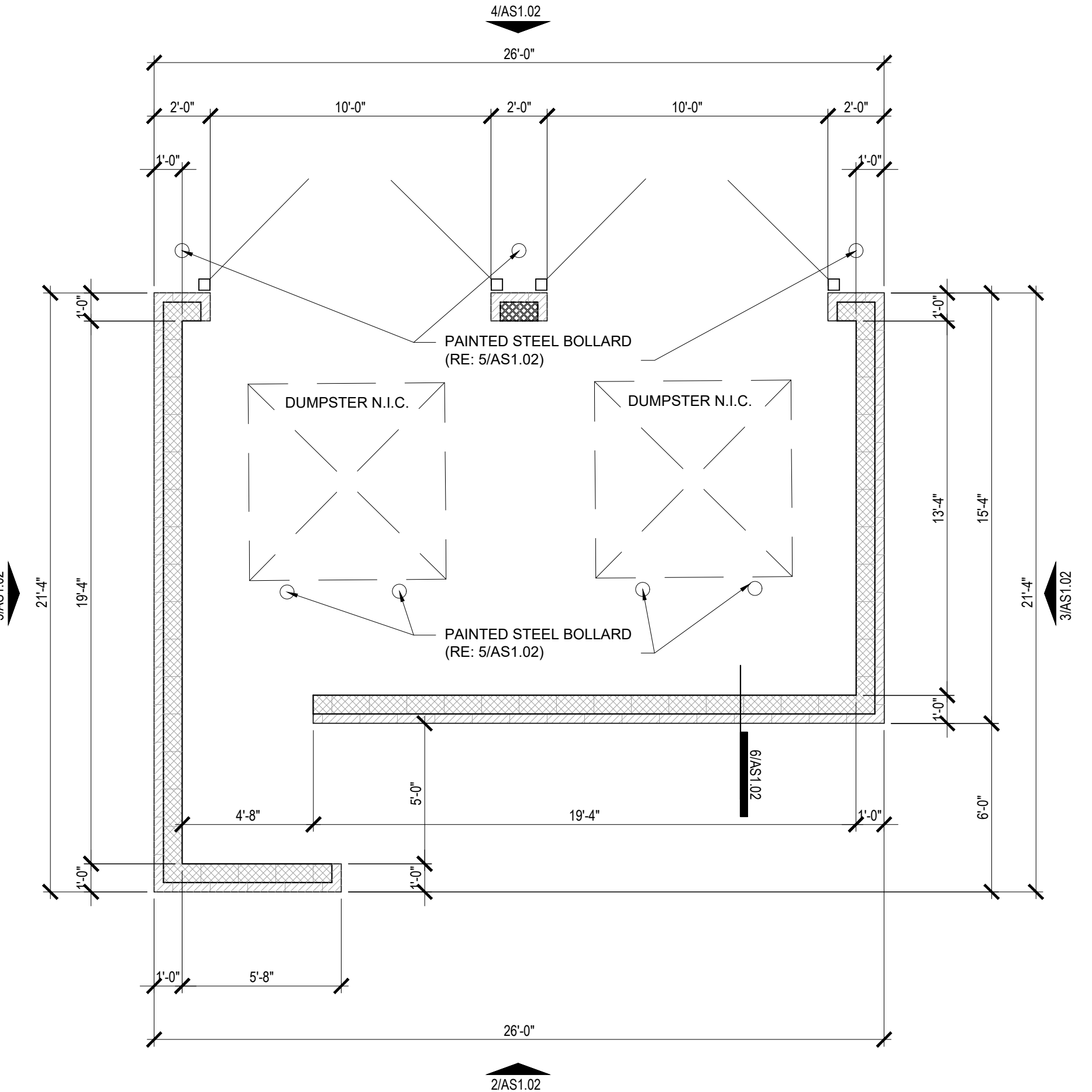


7 Front Entry Gate Pillar Detail
Scale: 3/4" = 1'-0"

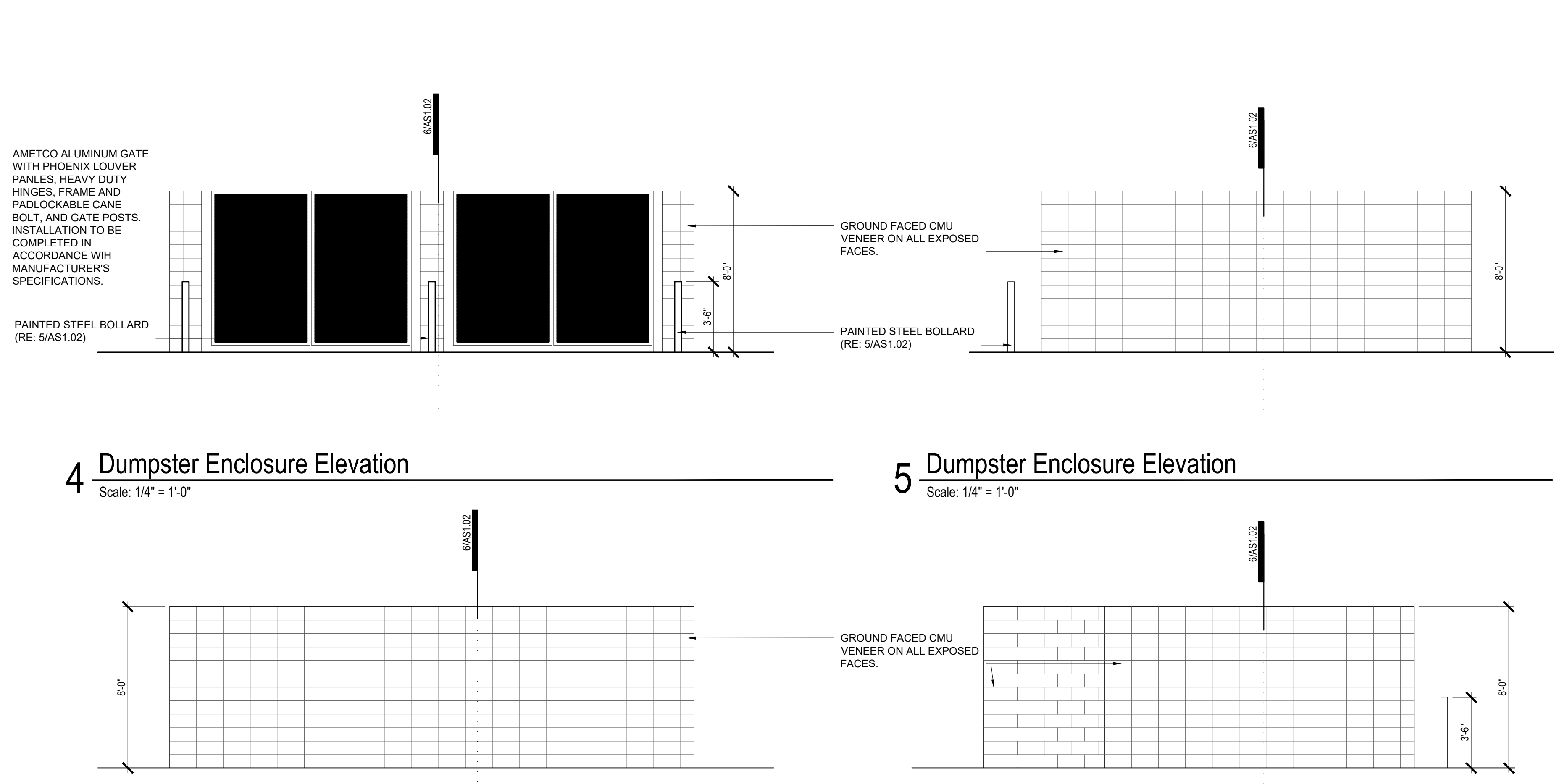


9 Front Entry Gate Elevation
Scale: 1/4" = 1'-0"

8 Front Entry Gate Enlarged Plan
Scale: 1/4" = 1'-0"



1 Enlarged Dumpster Enclosure Plan
Scale: 1/4" = 1'-0"

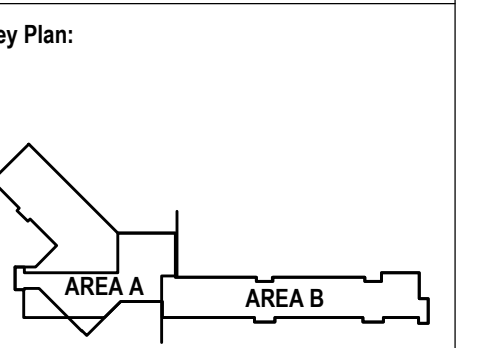


4 Dumpster Enclosure Elevation
Scale: 1/4" = 1'-0"

5 Dumpster Enclosure Elevation
Scale: 1/4" = 1'-0"

2 Dumpster Enclosure Elevation
Scale: 1/4" = 1'-0"

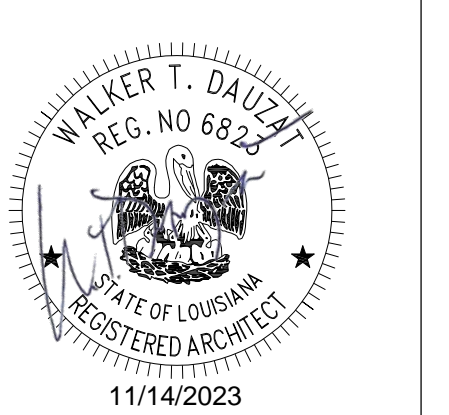
3 Dumpster Enclosure Elevation
Scale: 1/4" = 1'-0"



Consultants:

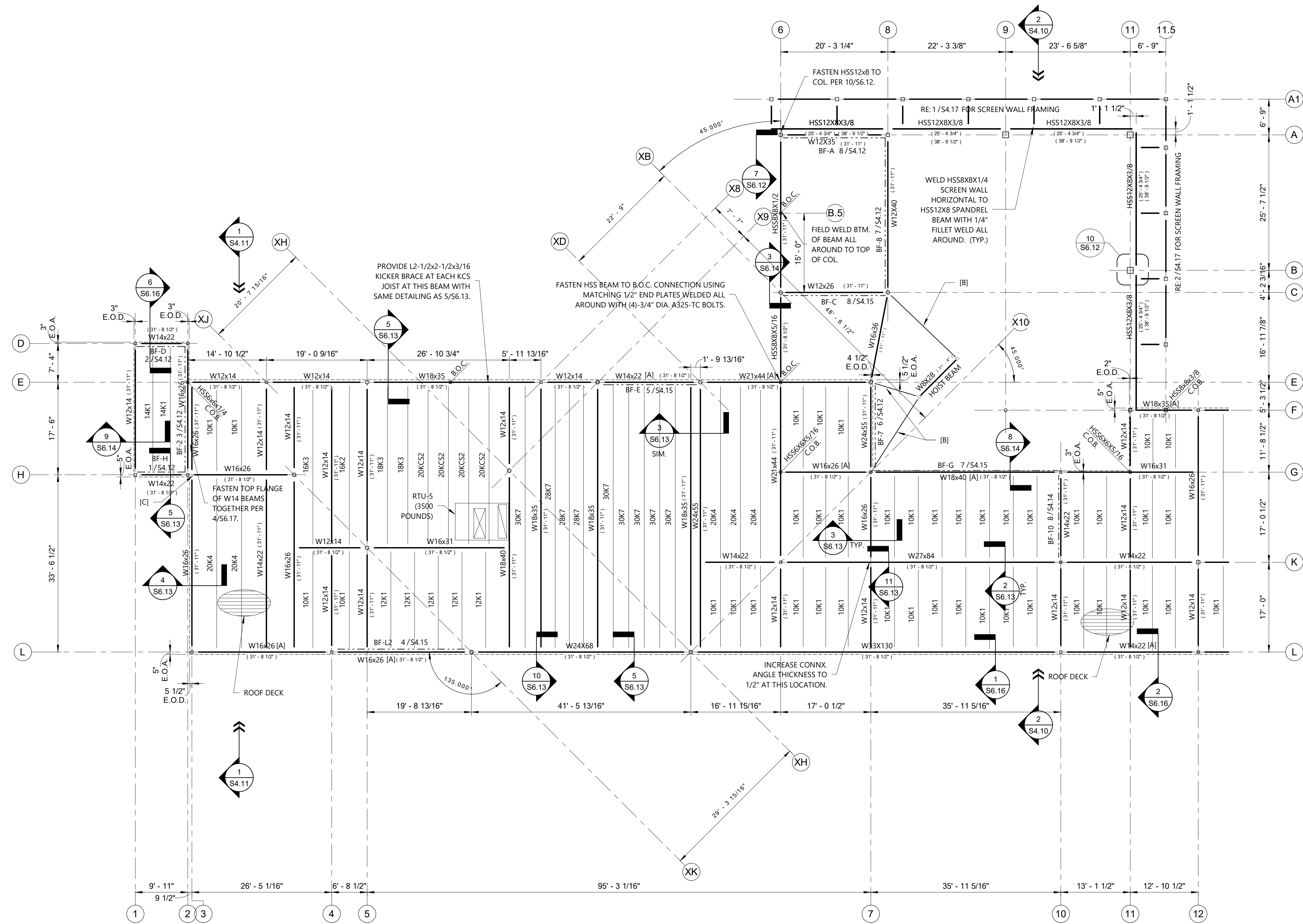
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Professional Seal
Scale: 1/4" = 1'-0"
Site Description:
Site Details

North **AS1.02**



ROOF FRAMING PLAN NOTES AND LEGEND:

ROOF DECK = 1.58 22 GAGE GALV. METAL ROOF DECK.

B.O.C. = BEAM OVER COLUMN. SEE DETAIL 5/S6.15.

C.O.B. = COLUMN OVER BEAM. SEE DETAIL 5/S6.15.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAIL 4/S6.11 FOR MORE INFORMATION.

E.O.D. = EDGE OF DECK. EDGE ANGLE IS NOT REQUIRED ALONG EDGES WHERE THIS DIMENSION IS INDICATED.

RTU = MECHANICAL ROOF TOP UNIT. ROOF TOP UNITS SHALL BE LOCATED BETWEEN KCS JOISTS OR STEEL BEAMS AS SHOWN ON PLANS. GC TO COORDINATE EXACT LOCATIONS. ADJUST SPACING OF JOISTS AS REQUIRED WHILE MAINTAINING 5'-6" MAXIMUM JOIST SPACING. TOTAL WEIGHT OF ROOF TOP UNIT AND CURB SHALL NOT EXCEED WEIGHT INDICATED. FOR ALL MECHANICAL ROOF TOP UNITS, PROVIDE SUPPORT FRAMING AT EDGES AND OPENINGS PER DETAIL 1/S6.14. GC TO COORDINATE EXACT DIMENSIONS REQUIRED FOR SUPPORT FRAMING.

ALL OPEN WEB STEEL JOISTS SHALL BE EQUALLY SPACED IN FRAMING BAYS BETWEEN GRIDLINES UNLESS NOTED OTHERWISE. SEE DETAIL 7/S6.13 FOR REQUIRED STAGGERING OF JOISTS AT ALIGNED LOCATIONS OVER GIRDER BEAMS.

HOIST BEAM = HOIST BEAM FOR ELEVATOR. HOIST BEAM SHALL ATTACH TO HSS6x6x3/8 ELEVATOR GUIDE RAIL POSTS WITH ANGLES AT TOP AND BOTTOM SIMILAR TO DETAIL 7/S6.12. GC TO COORDINATE LOCATION AND ELEVATION OF HOIST BEAM WITH ELEVATOR SUPPLIER. DESIGN-BASIS ELEVATOR HAS GUIDE RAILS THAT ARE ALIGNED WITH LOCATION OF HOIST BEAM. IF ANOTHER ELEVATOR IS USED AND GUIDE RAILS DO NOT ALIGN WITH HOIST BEAM, THEN ADDITIONAL HSS6x6x3/8 POSTS SHALL BE PROVIDED FOR SUPPORT OF HOIST BEAM. IF ELEVATOR SUPPLIER REQUIRES SUPPORT OF ADDITIONAL SAFETY BEAM AT TOP OF ELEVATOR, PROVIDE HSS6x6x3/8 POST TO FLOOR BELOW FOR SUPPORT.

[A] = PROVIDE HSS COLLECTORS MEMBERS PER 12/S6.13 ON TOP OF BEAM BETWEEN JOISTS AT BEAM INDICATED.

[B] = INDICATES L5x5x5/16 HORIZ. BRACE FROM ELEVATOR POST TO COLUMN AND FIELD WELD EACH EACH ALL AROUND.

[C] = WHERE BEAM-TO-BEAM CONNECTION CONFLICTS WITH BEAM-TO-COLUMN, CHANGE BEAM-TO-BEAM CONNECTION TO SINGLE PLATE SIMILAR TO BEAM-TO-COLUMN CONNECTION.

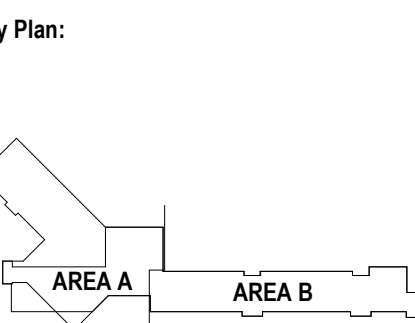
ALL OVERFLOW DRAINS ON ROOF SHALL BE SET NO MORE THAN TWO INCHES ABOVE PRIMARY DRAINS.



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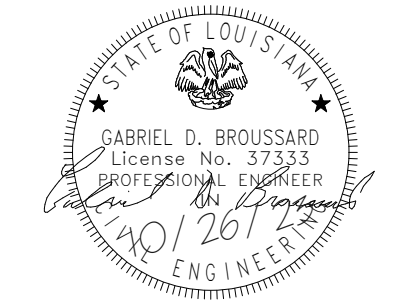
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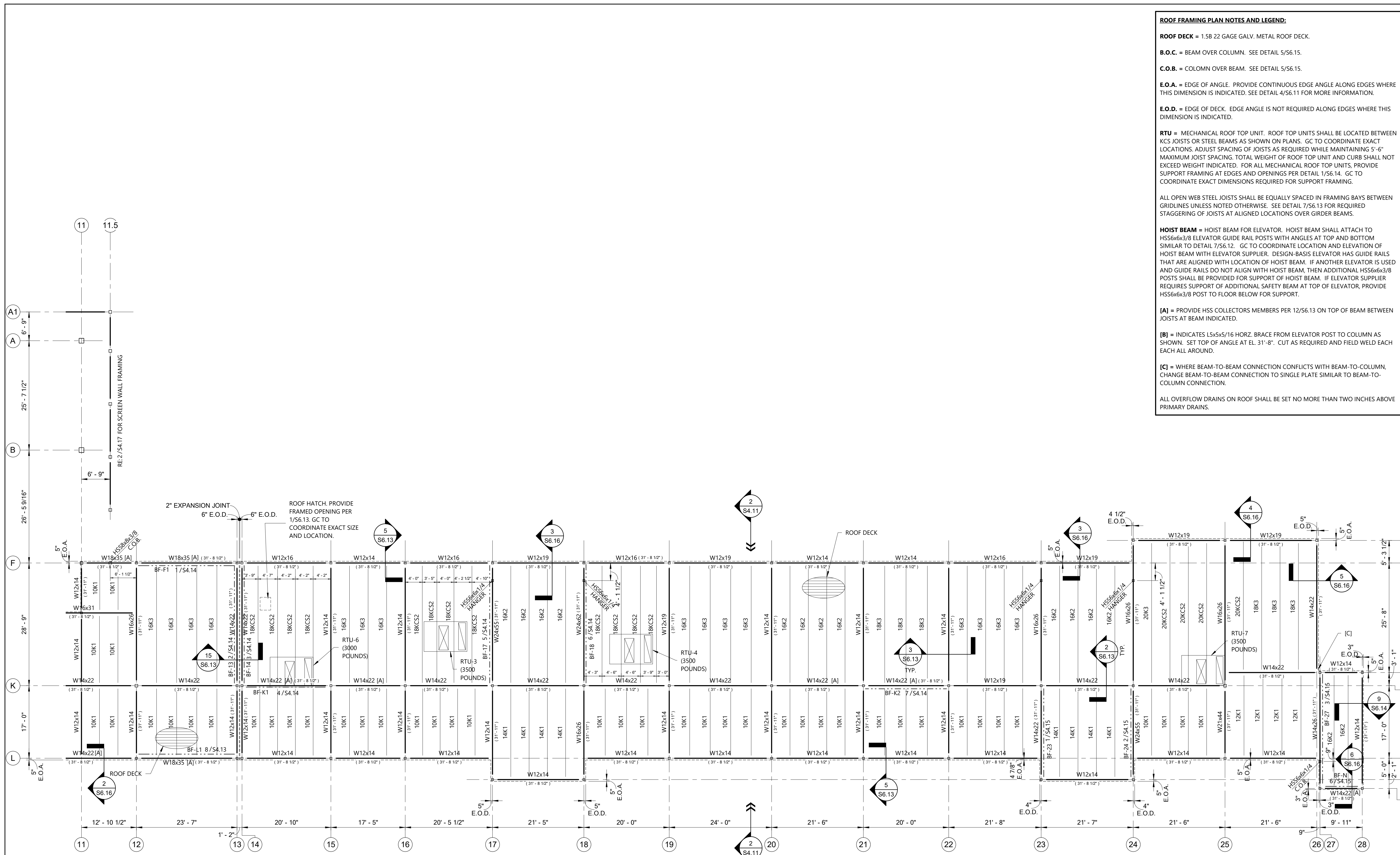


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 Scale:
 Sht Description: ROOF FRAMING PLAN

1 ROOF FRAMING PLAN - A
 3/32" = 1'-0"

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S3.11
 North



ROOF FRAMING PLAN NOTES AND LEGEND:

ROOF DECK = 1.58 22 GAGE GALV. METAL ROOF DECK.

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ALL OPEN WEB STEEL JOISTS SHALL BE EQUALLY SPACED IN FRAMING BAYS BETWEEN GRIDLINES UNLESS NOTED OTHERWISE. SEE DETAIL 7/S6.13 FOR REQUIRED STAGGERING OF JOISTS AT ALIGNED LOCATIONS OVER GIRDER BEAMS.

HOIST BEAM = HOIST BEAM FOR ELEVATOR. HOIST BEAM SHALL ATTACH TO HSS6x6x3/8 ELEVATOR GUIDE RAIL POSTS WITH ANGLES AT TOP AND BOTTOM SIMILAR TO DETAIL 7/S6.12. GC TO COORDINATE LOCATION AND ELEVATION OF HOIST BEAM WITH ELEVATOR SUPPLIER. DESIGN-BASIS ELEVATOR HAS GUIDE RAILS THAT ARE ALIGNED WITH LOCATION OF HOIST BEAM. IF ANOTHER ELEVATOR IS USED AND GUIDE RAILS DO NOT ALIGN WITH HOIST BEAM, THEN ADDITIONAL HSS6x6x3/8 POSTS SHALL BE PROVIDED FOR SUPPORT OF HOIST BEAM. IF ELEVATOR SUPPLIER REQUIRES SUPPORT OF ADDITIONAL SAFETY BEAM AT TOP OF ELEVATOR, PROVIDE HSS6x6x3/8 POST TO FLOOR BELOW FOR SUPPORT.

[A] = PROVIDE HSS COLLECTORS MEMBERS PER 12/S6.13 ON TOP OF BEAM BETWEEN JOISTS AT BEAM INDICATED.

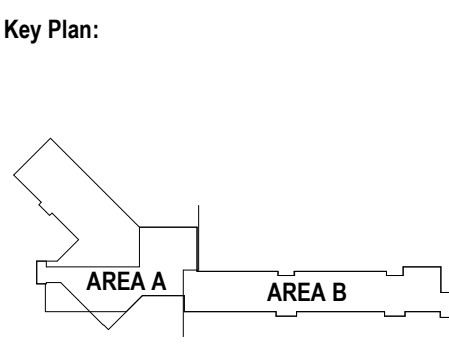
[B] = INDICATES L5x5x5/16 HORZ. BRACE FROM ELEVATOR POST TO COLUMN AS SHOWN. SET TOP OF ANGLE AT EL. 31'-8". CUT AS REQUIRED AND FIELD WELD EACH EACH ALL AROUND.

[C] = WHERE BEAM-TO-BEAM CONNECTION CONFLICTS WITH BEAM-TO-COLUMN, CHANGE BEAM-TO-BEAM CONNECTION TO SINGLE PLATE SIMILAR TO BEAM-TO-COLUMN CONNECTION.

ALL OVERFLOW DRAINS ON ROOF SHALL BE SET NO MORE THAN TWO INCHES ABOVE PRIMARY DRAINS.

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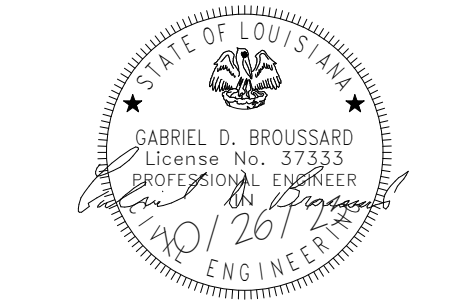
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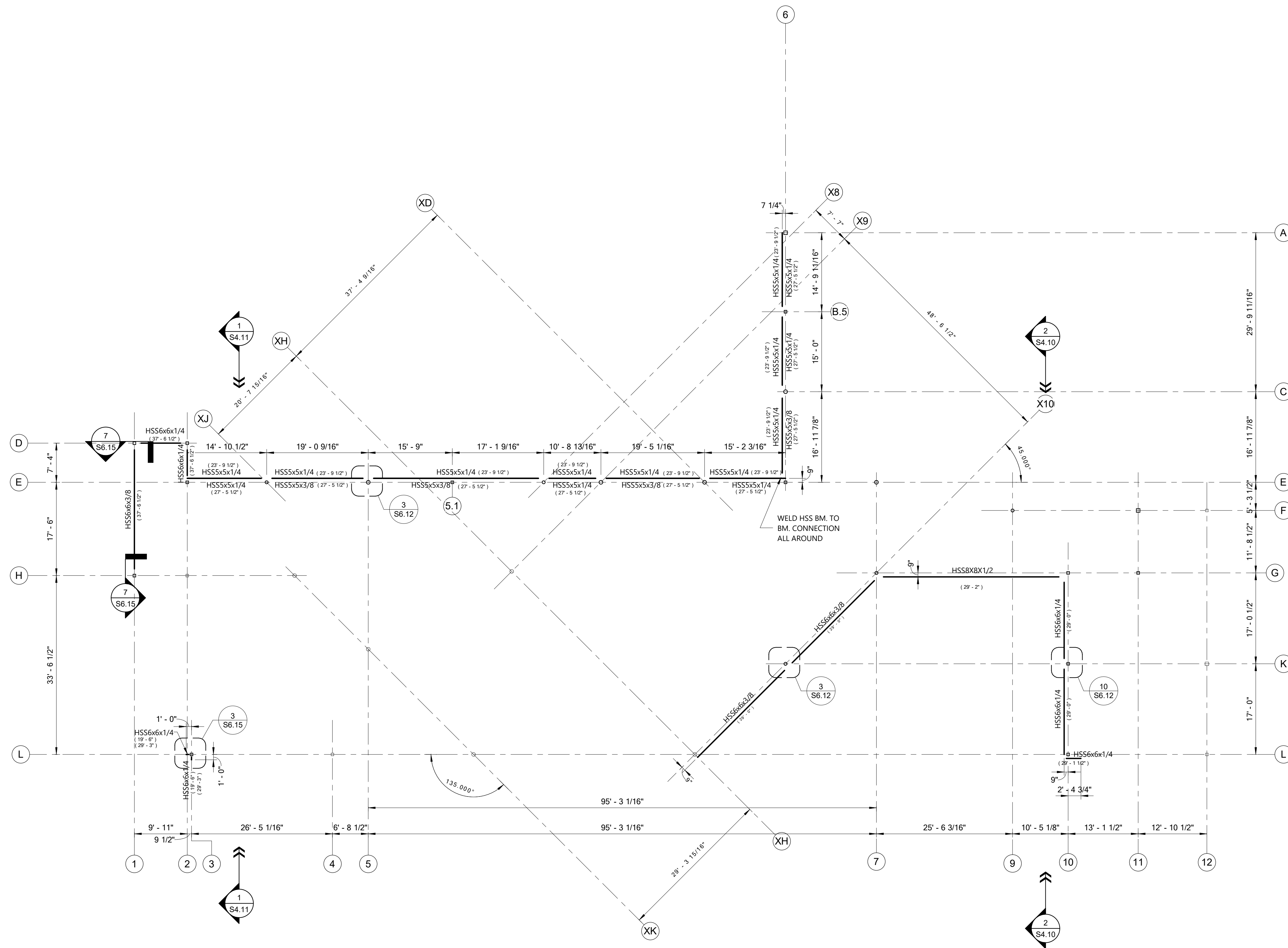


Professional Seal
 Scale:
 Sht Description:
 ROOF FRAMING PLAN

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North
S3.12

1 ROOF FRAMING PLAN - B
 3/32" = 1'-0"



1 SPANDREL PLAN
3/32" = 1'-0"

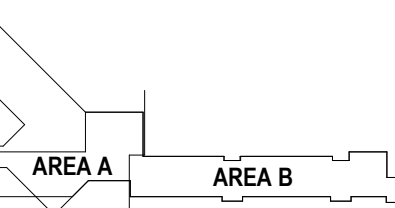


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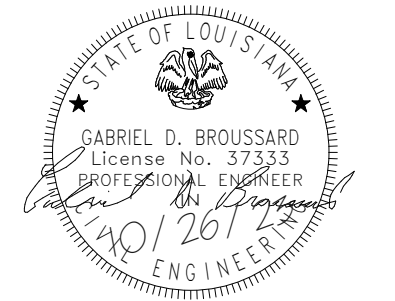
Key Plan:



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SPANDREL PLAN

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North
S3.13

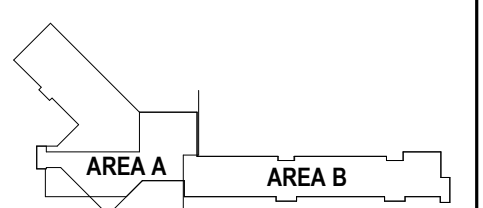


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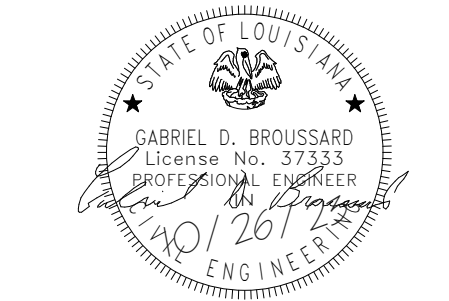
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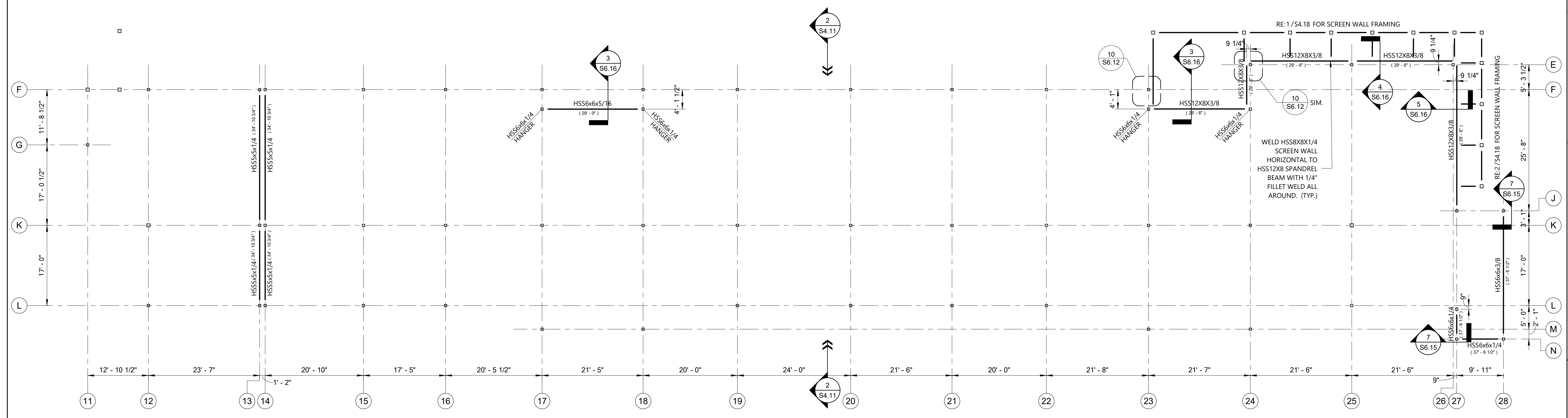
SPANDREL PLAN

North **S3.14**

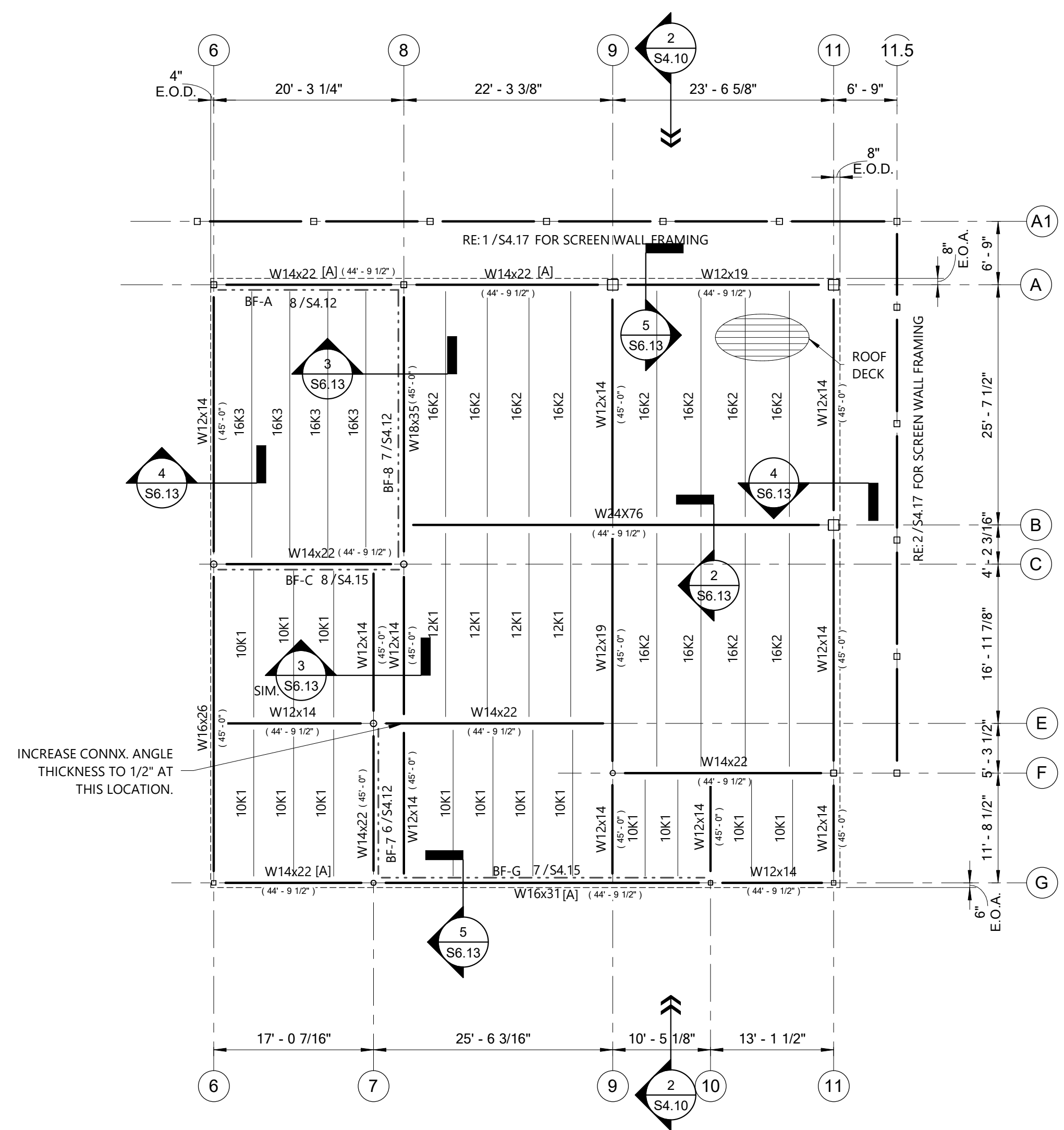
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1 SPANDREL PLAN
 3/32" = 1'-0"



1 HIGH ROOF FRAMING PLAN
3/32" = 1'-0"

HIGH ROOF FRAMING PLAN NOTES AND LEGEND:

ROOF DECK = 1.5B 22 GAGE GALV. METAL ROOF DECK.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAIL 4/S6.11 FOR MORE INFORMATION.

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[A] = PROVIDE HSS COLLECTORS MEMBERS PER 12/S6.13 ON TOP OF BEAM BETWEEN JOISTS AT BEAM INDICATED.

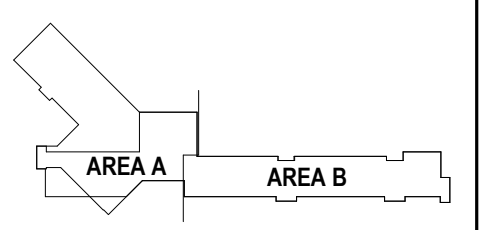


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Key Plan:

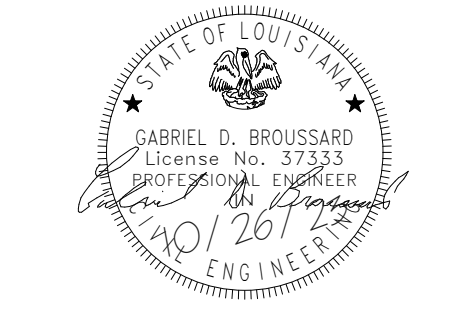


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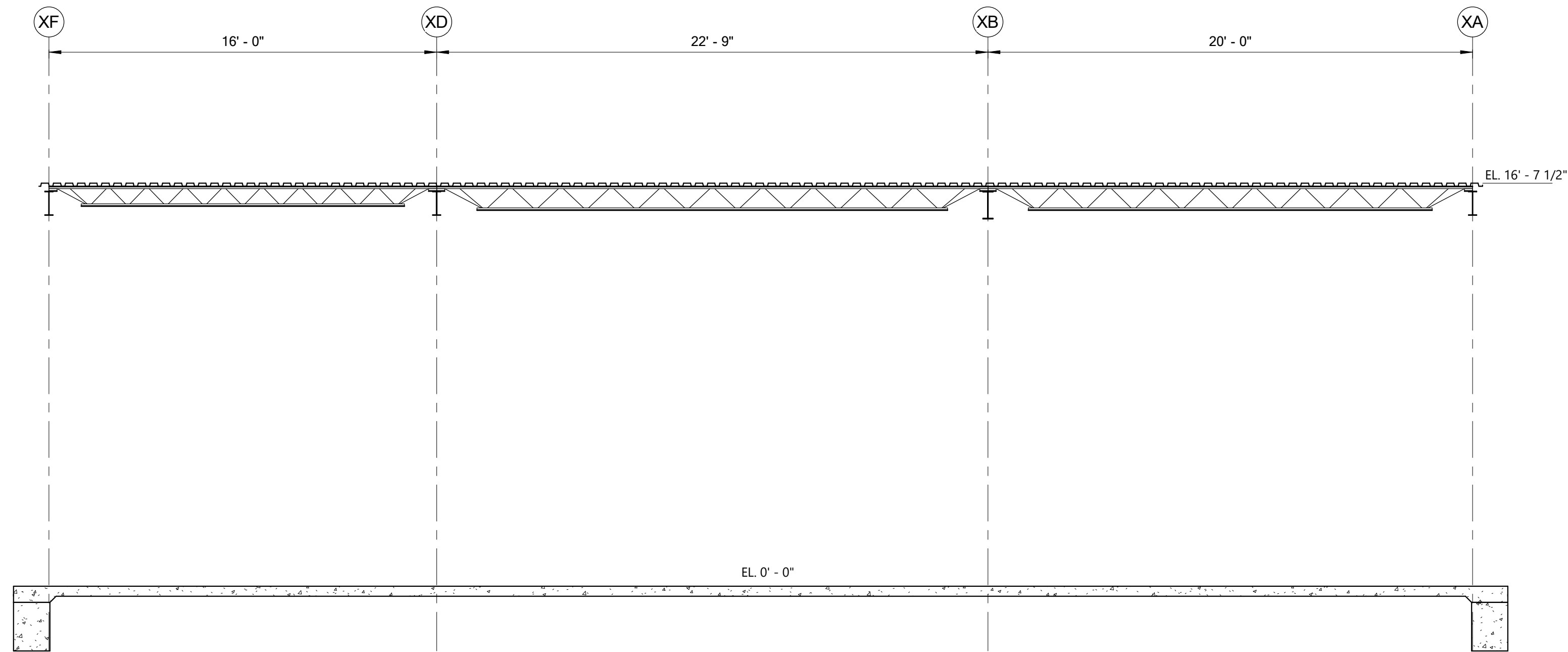
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Sht Description:
HIGH ROOF FRAMING PLAN

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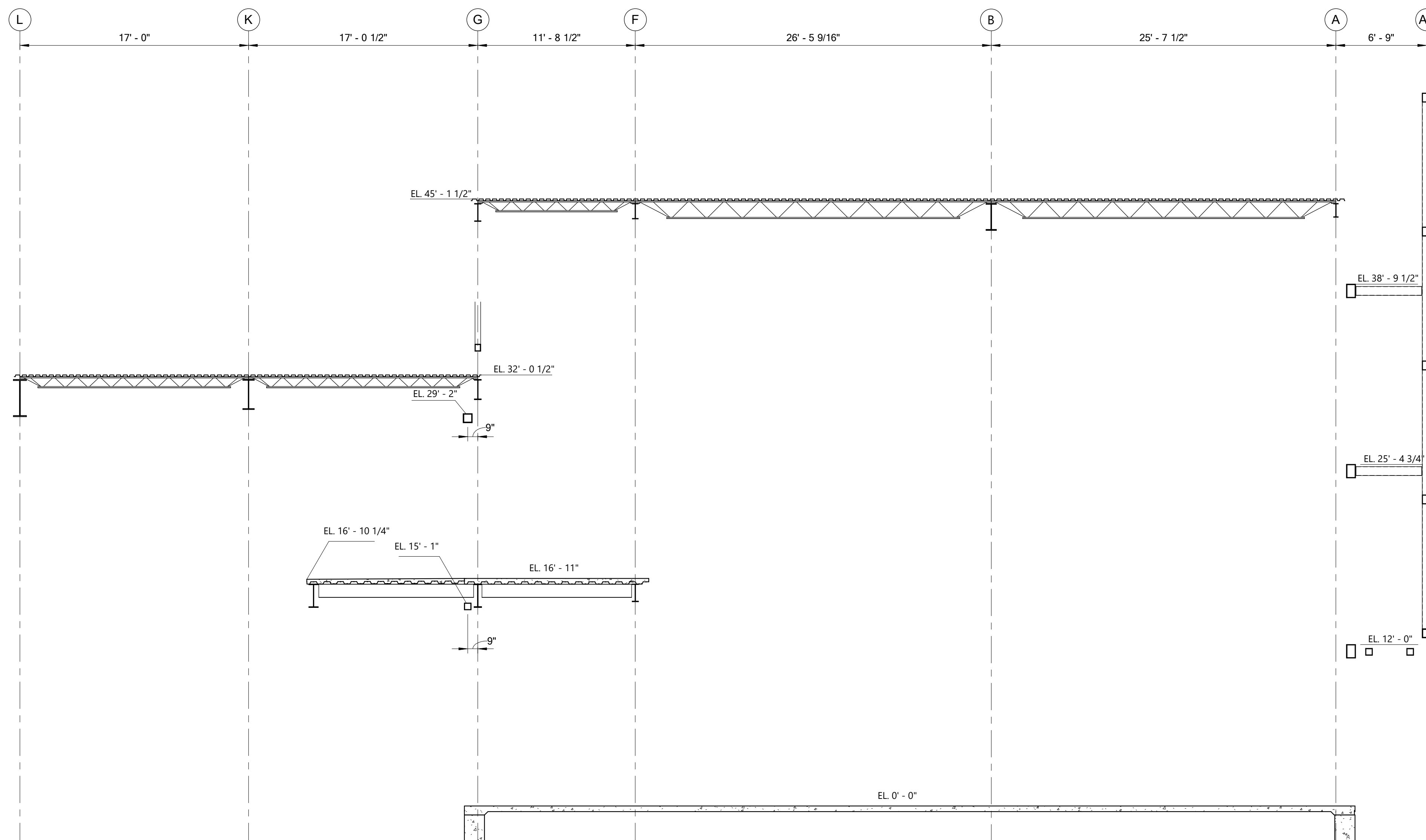
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North
S3.15



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



2 Building Section
3/16" = 1'-0"

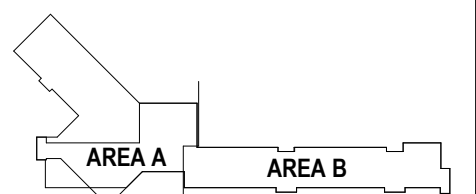


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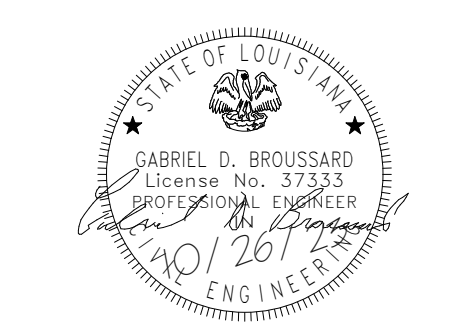
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Professional Seal

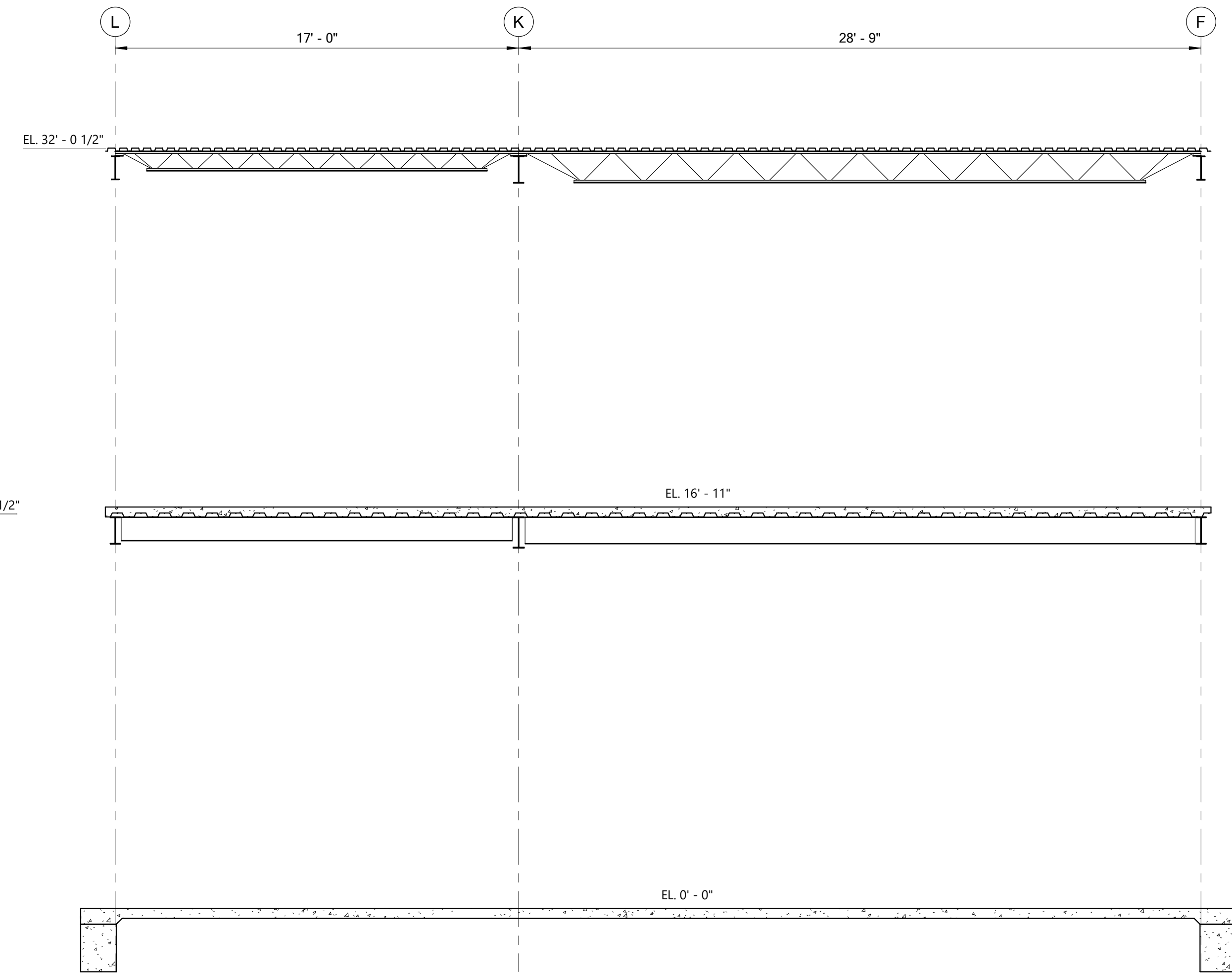
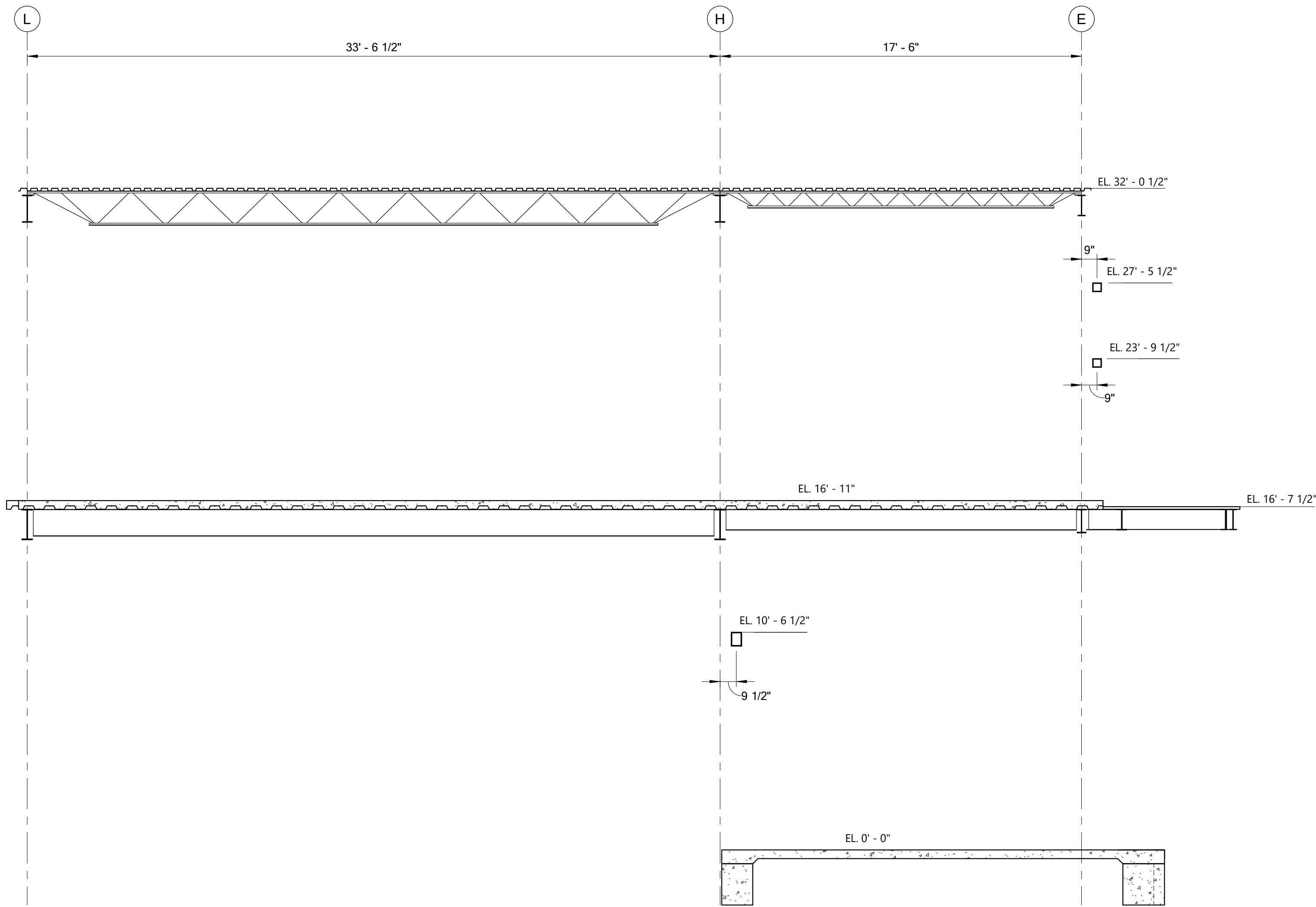
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BUILDING SECTIONS

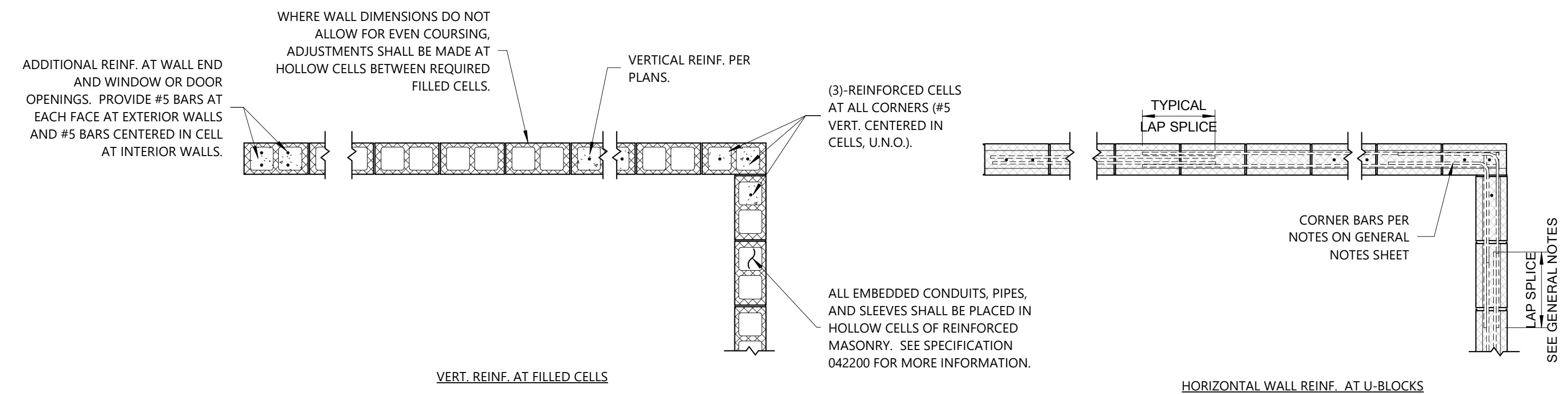
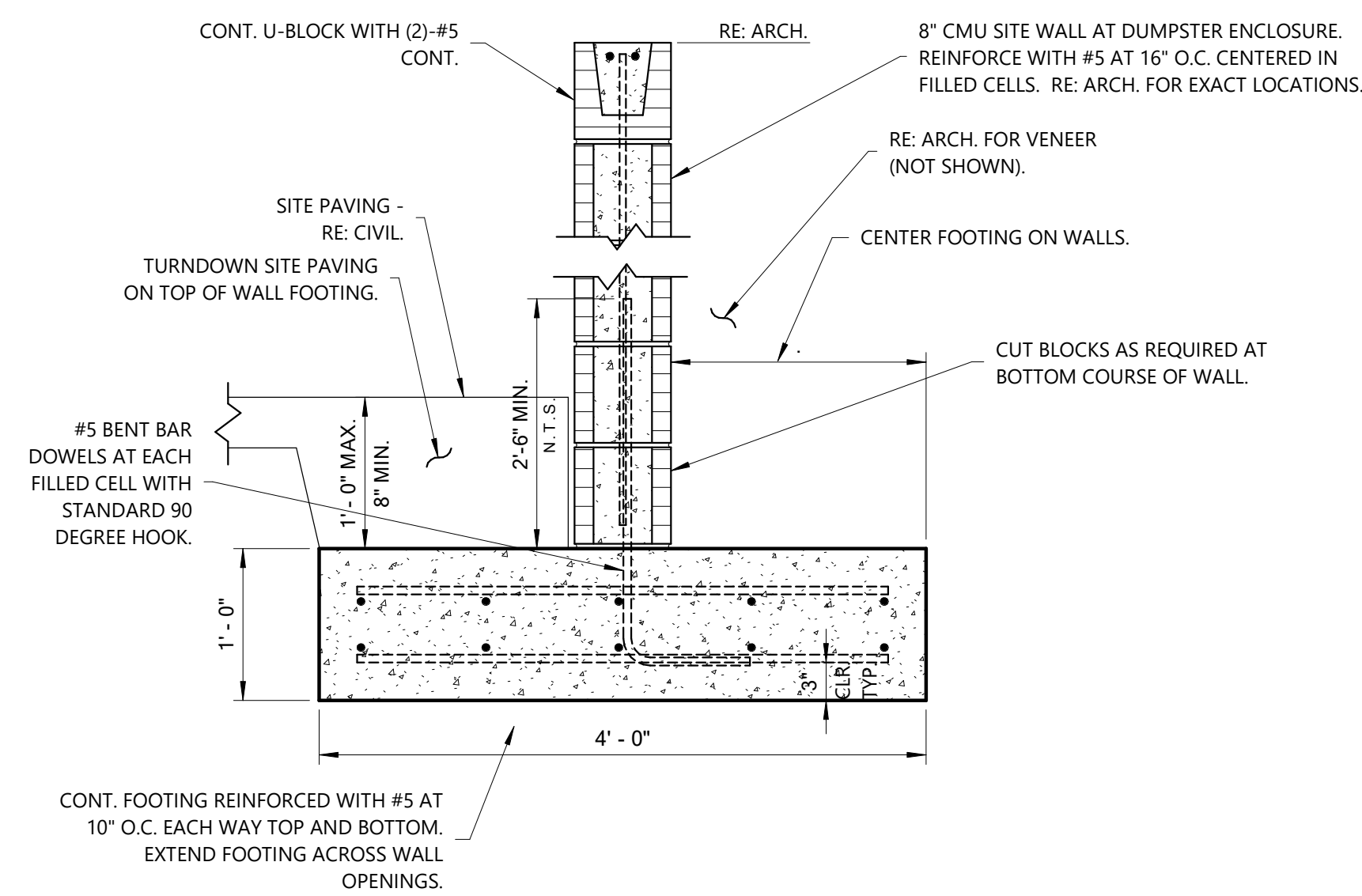
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North **S4.10**



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

2 Building Section
1/4" = 1'-0"



4 Typical CMU Wall Reinforcement Diagram
1/2" = 1'-0"

3 Dumpster Enclosure Wall Footing
1" = 1'-0"

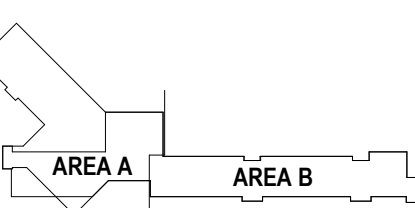


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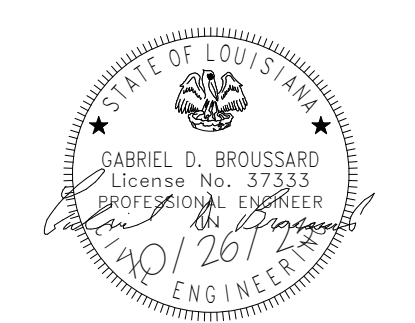
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Baton Rouge, LA 70817

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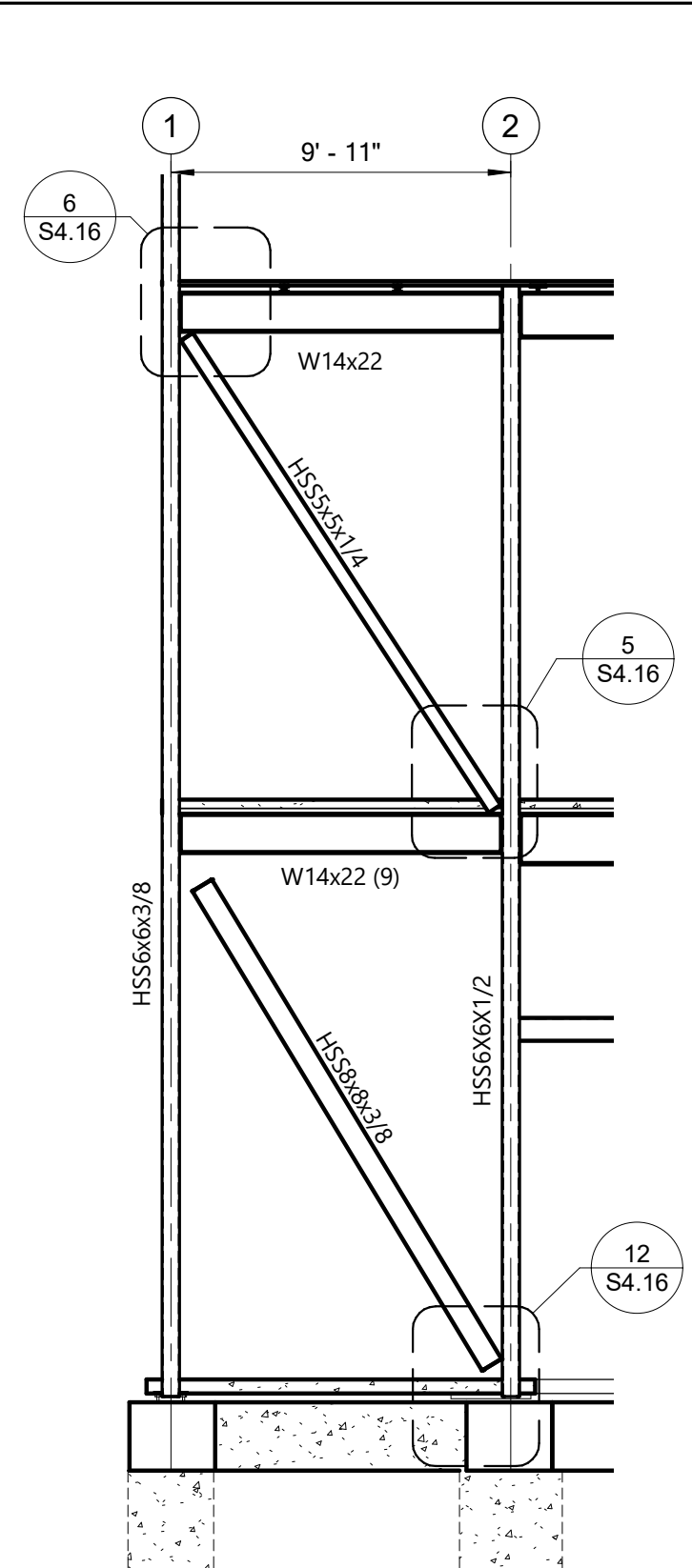


Professional Seal
Scale:
Sht Description:
BUILDING SECTIONS

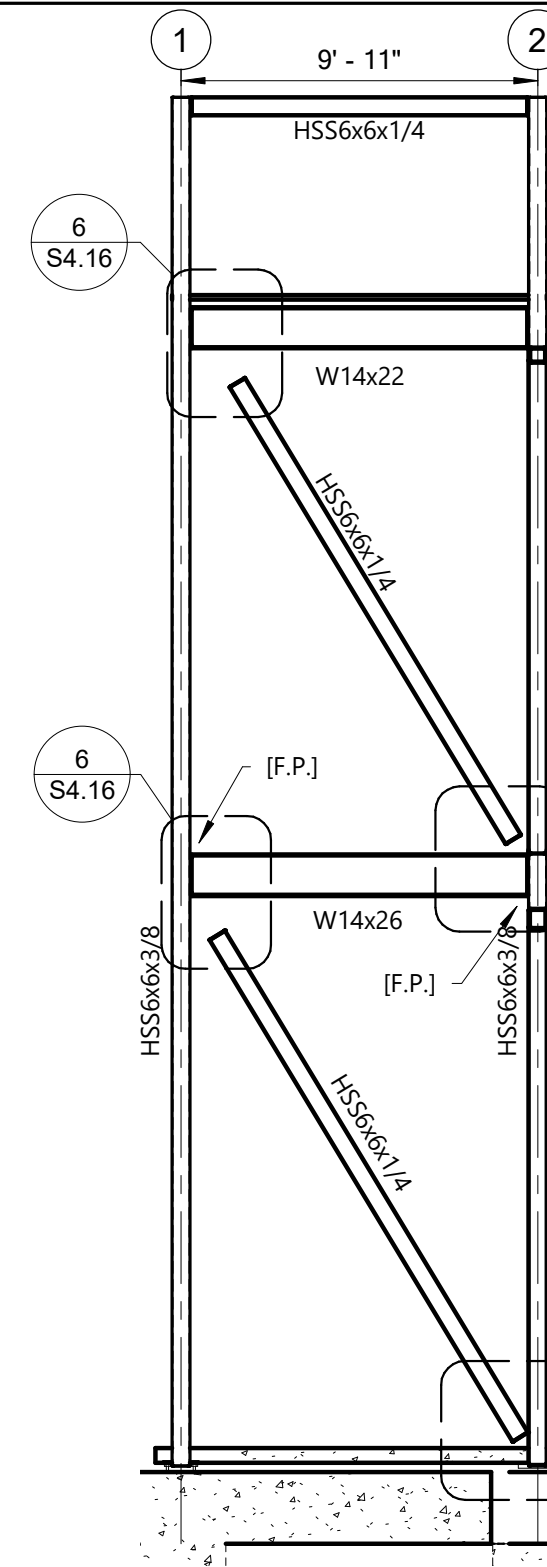
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North **S4.11**

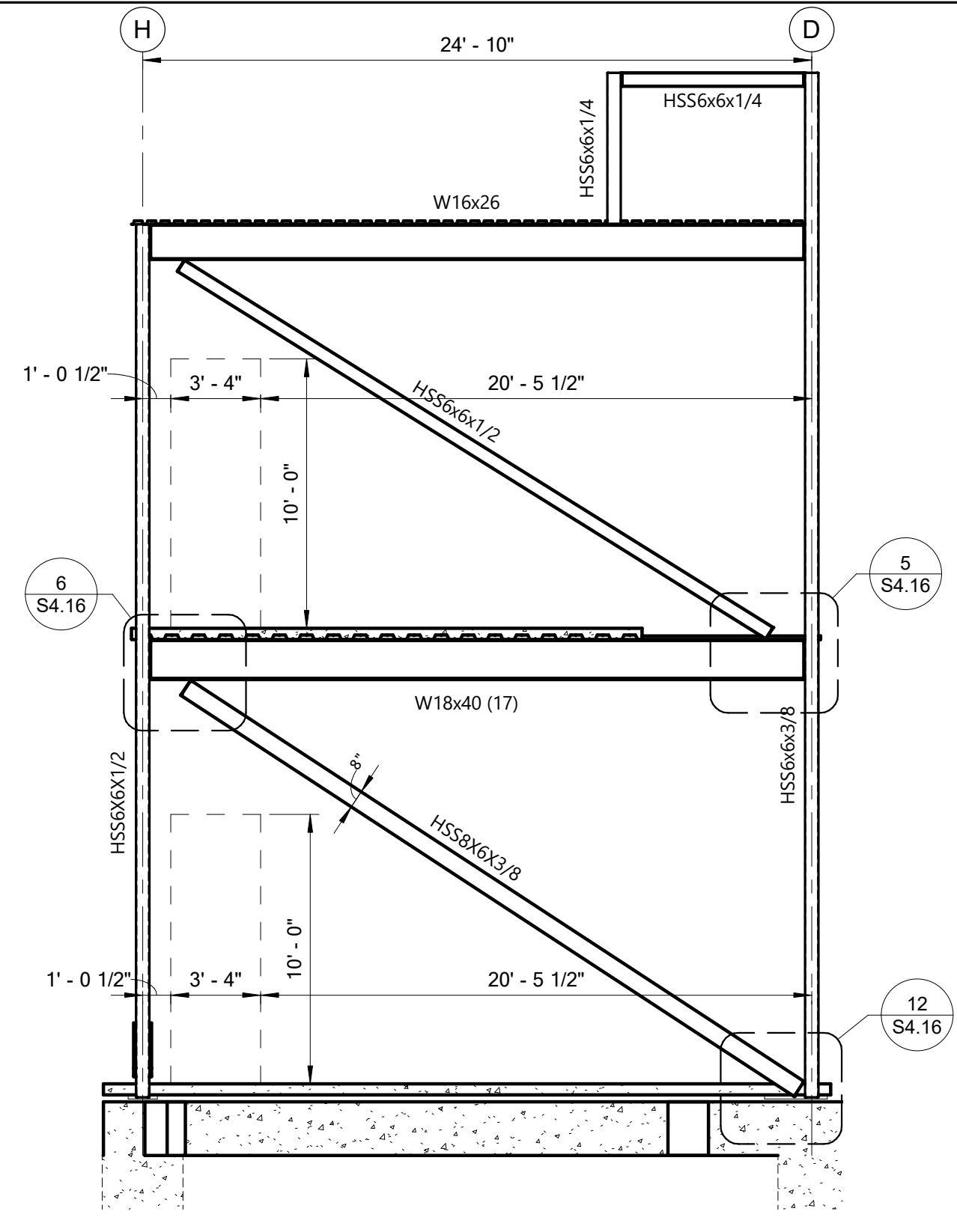


1 Braced Frame BF-H Along Line H
3/16" = 1'-0"

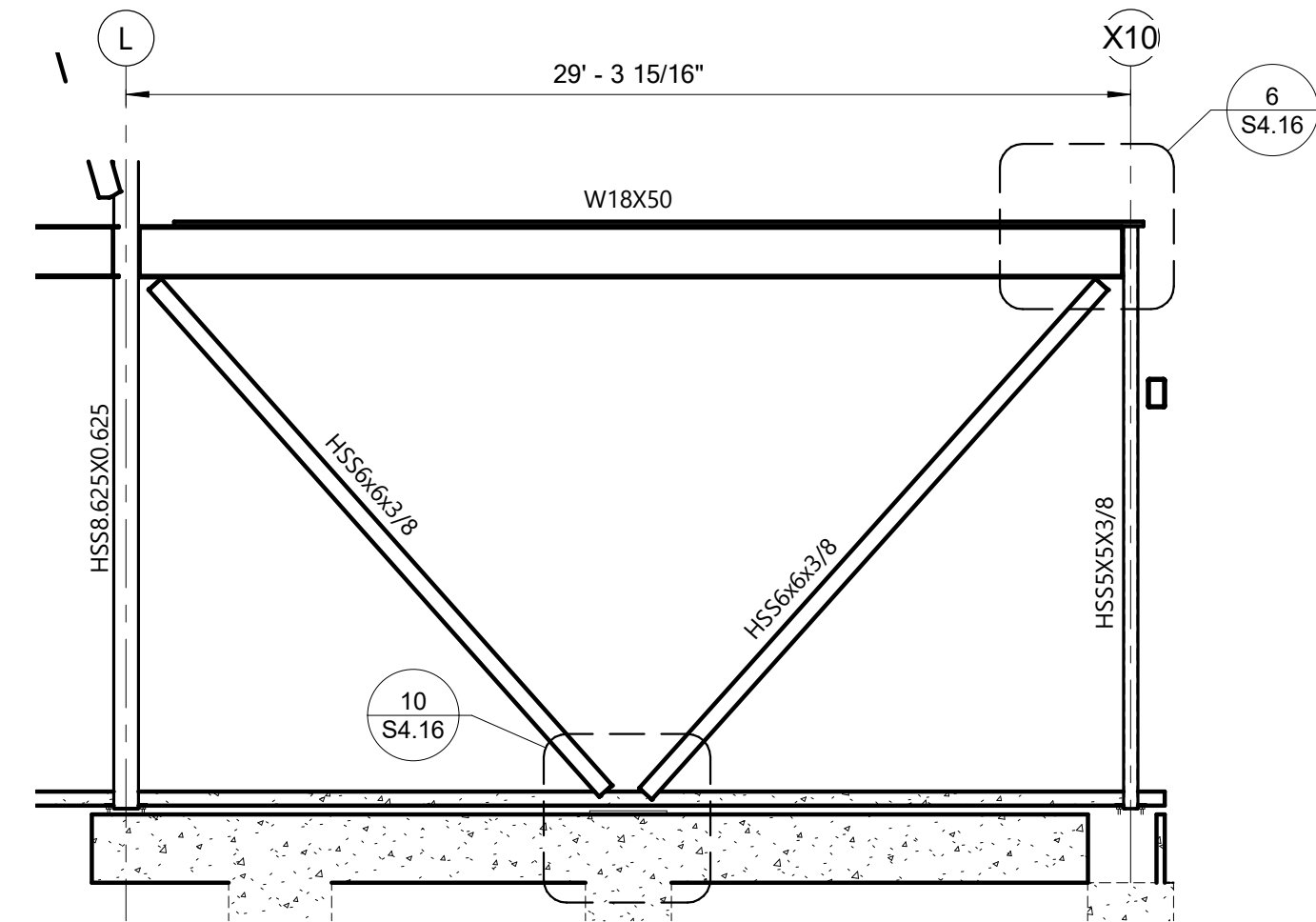


2 Braced Frame BF-D Along Line D
3/16" = 1'-0"

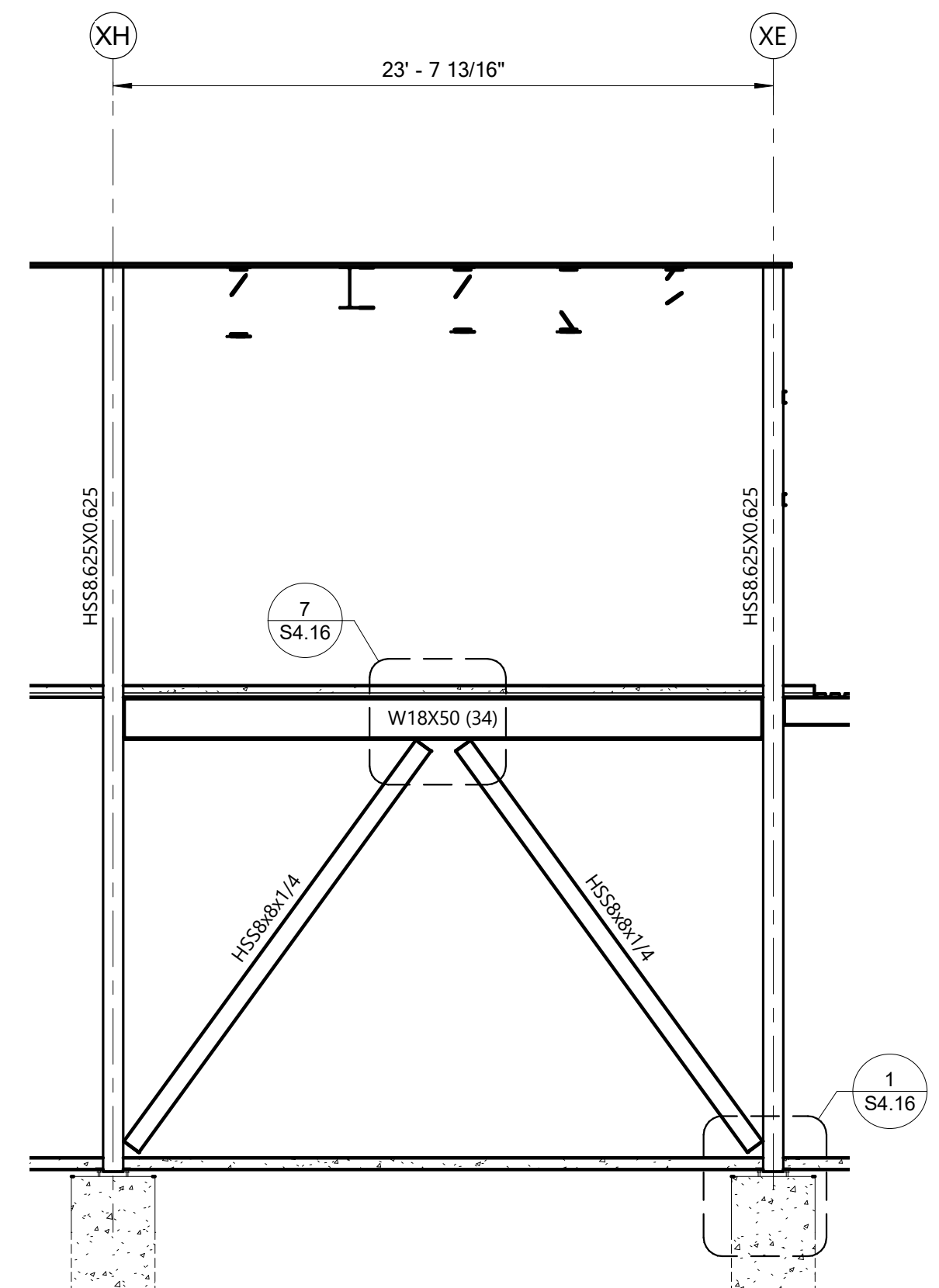
[F.P.] = PROVIDE 3/8" THICK x 6" LONG x 3 1/2" WIDE FLANGE PLATE TO FLANGE OF BEAM INDICATED. SHOP WELD BOTH SIDES CONT. TO BEAM WITH 1/4" FILLET WELD. FASTEN TO FLANGE OF BEAM WITH (2)-3/4" DIA. A325-TC BOLTS.



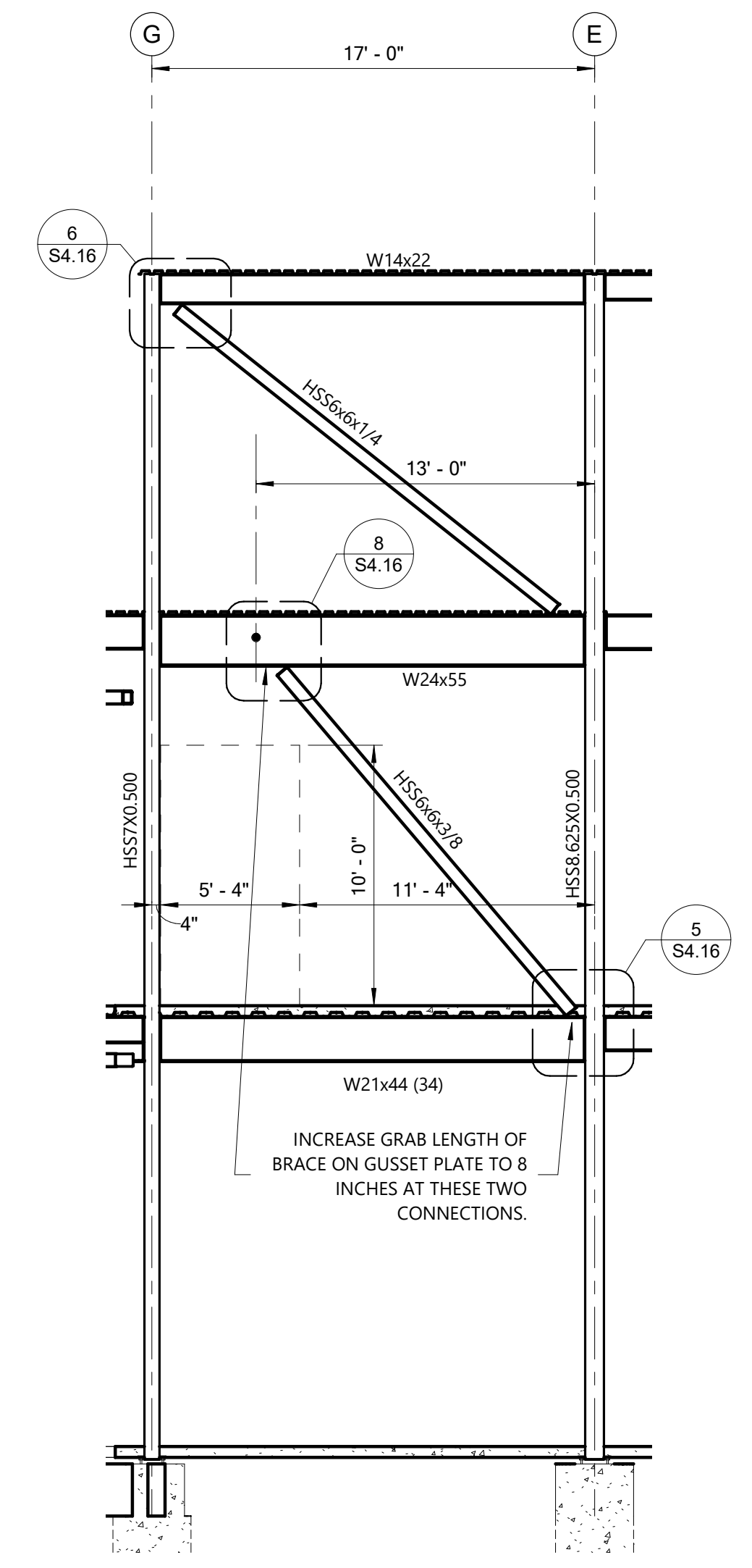
3 Braced Frame BF-2 Along Line 2
3/16" = 1'-0"



4 Braced Frame BF-XK Along Line XK
3/16" = 1'-0"

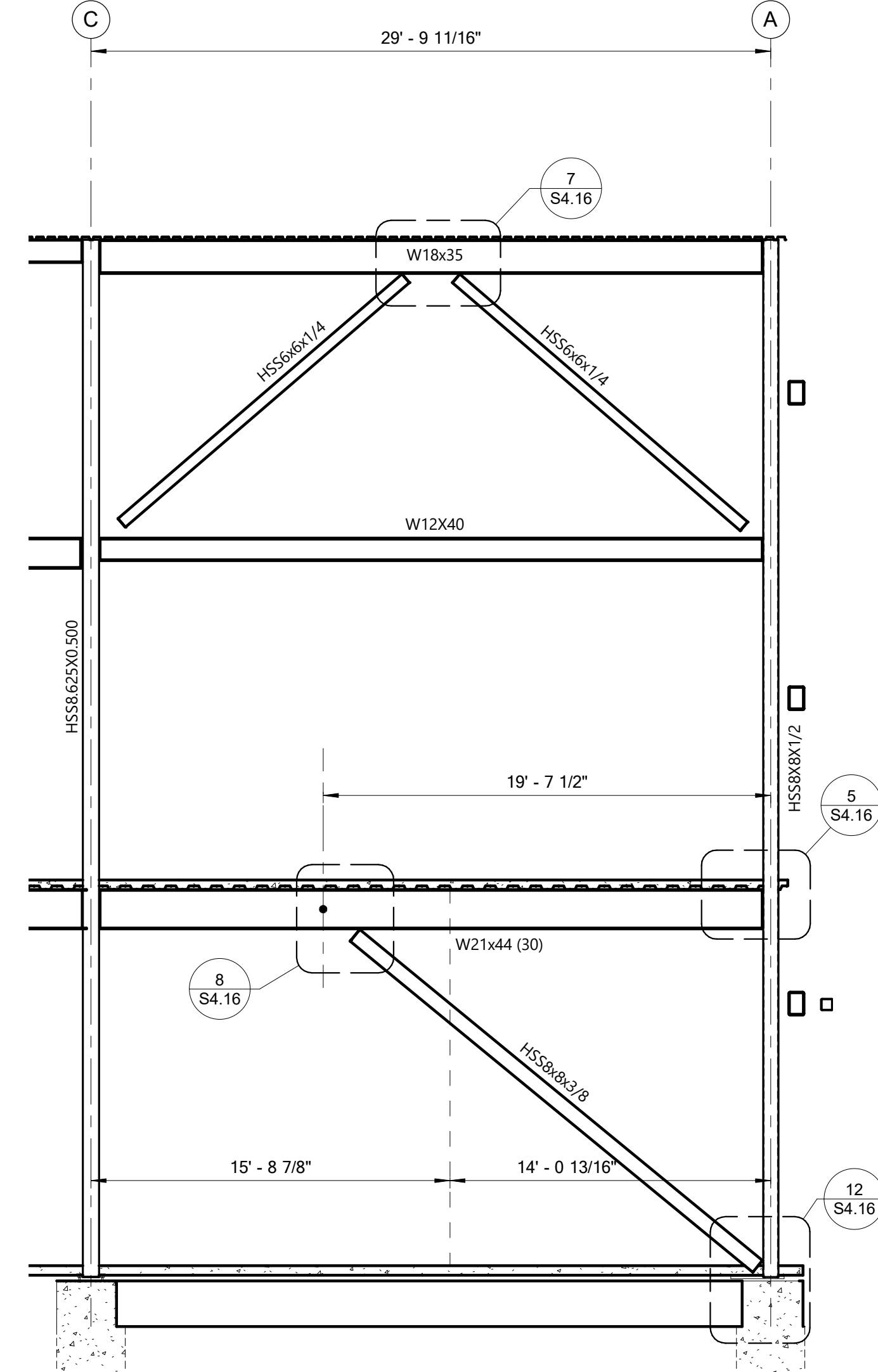


5 Braced Frame BF-X9 Along Line X9
3/16" = 1'-0"

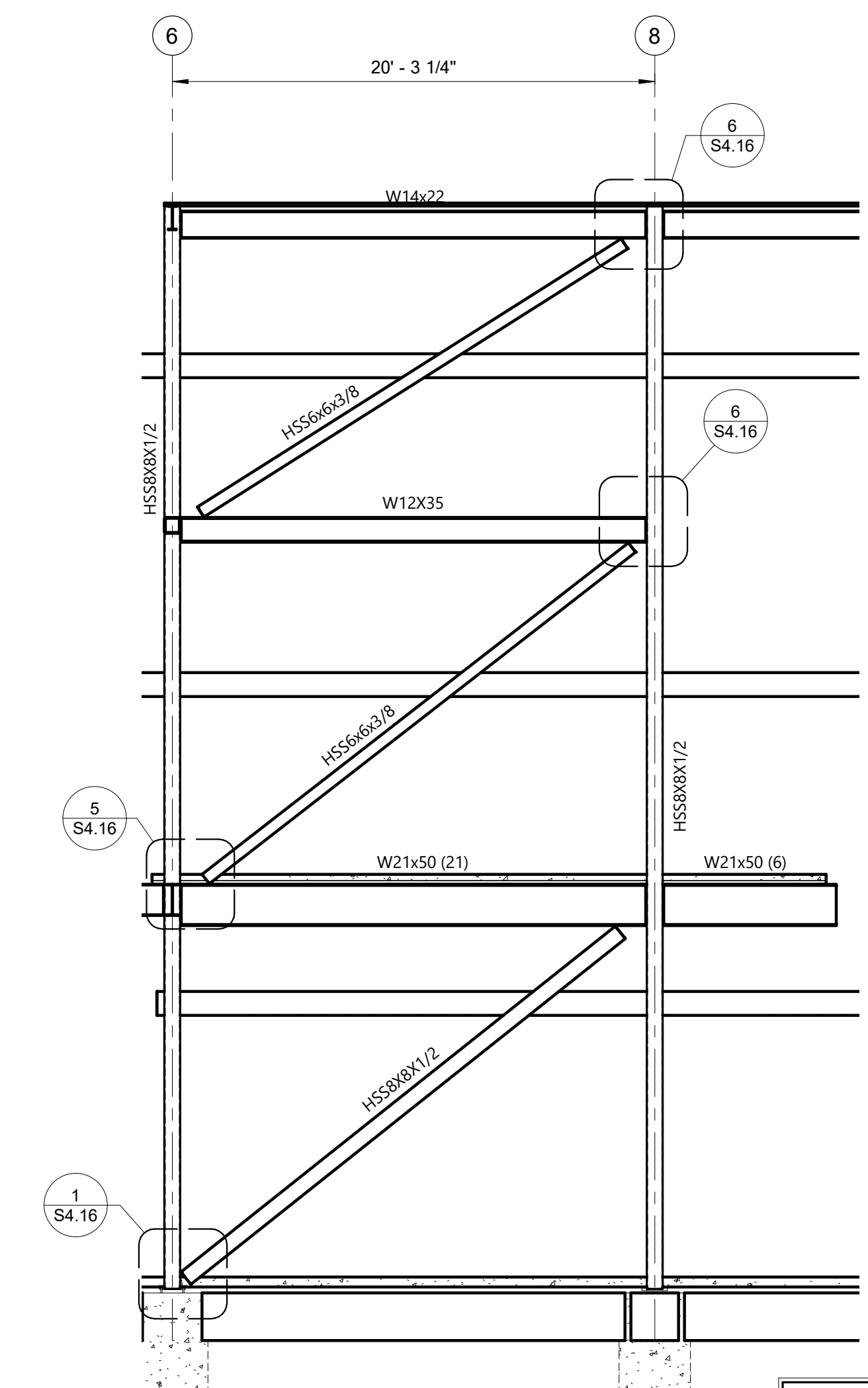


6 Braced Frame BF-7 Along Line 7
3/16" = 1'-0"

INCREASE GRAB LENGTH OF BRACE ON GUSSET PLATE TO 8 INCHES AT THESE TWO CONNECTIONS.



7 Braced Frame BF-8 Along Line 8
3/16" = 1'-0"

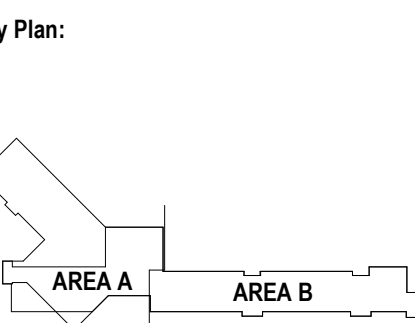


8 Braced Frame BF-A Along Line A
3/16" = 1'-0"

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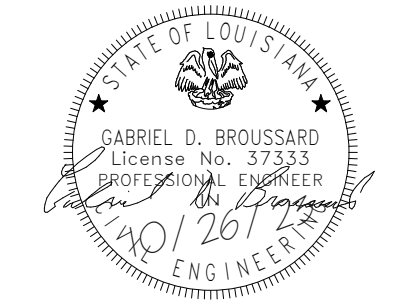
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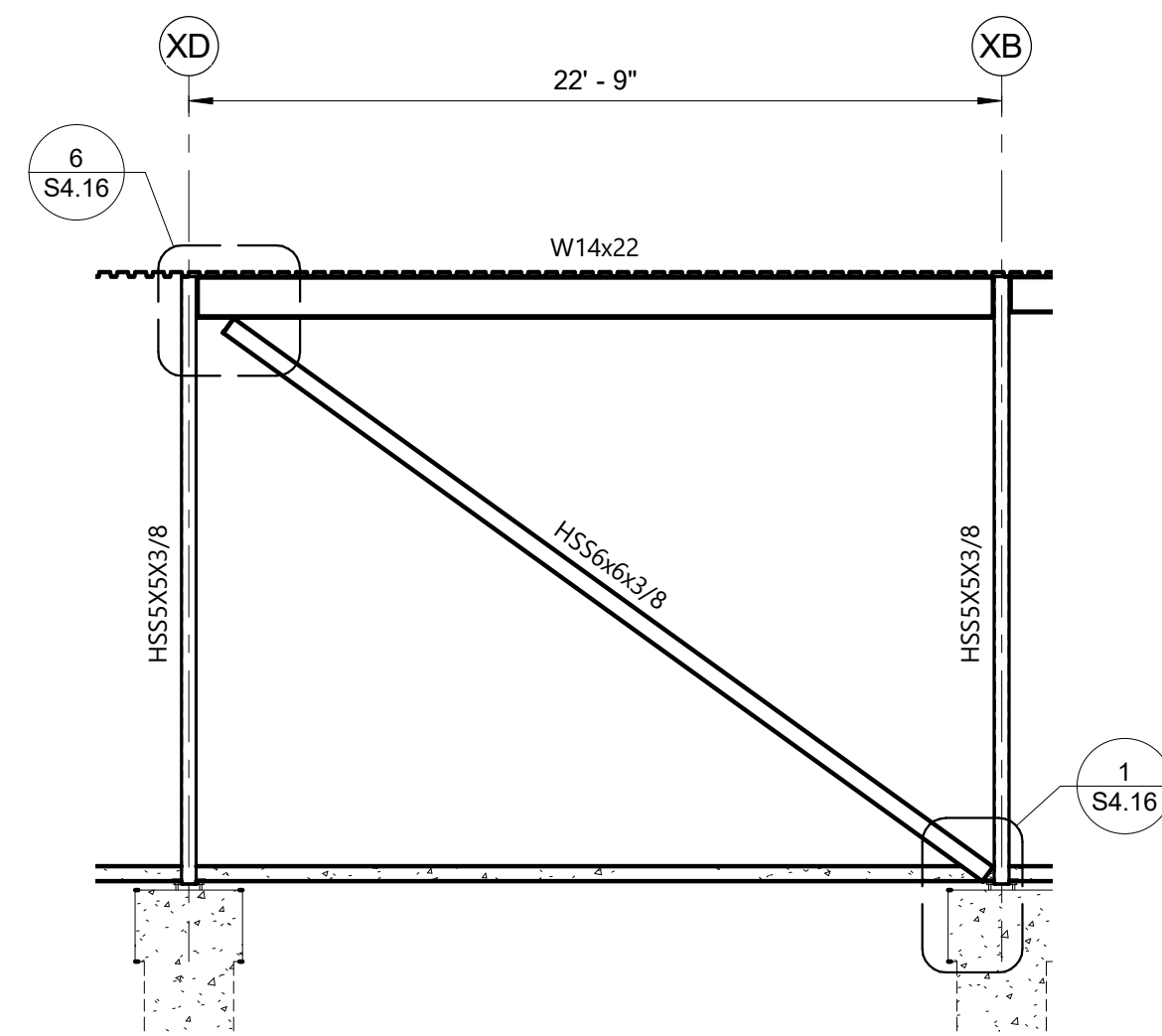
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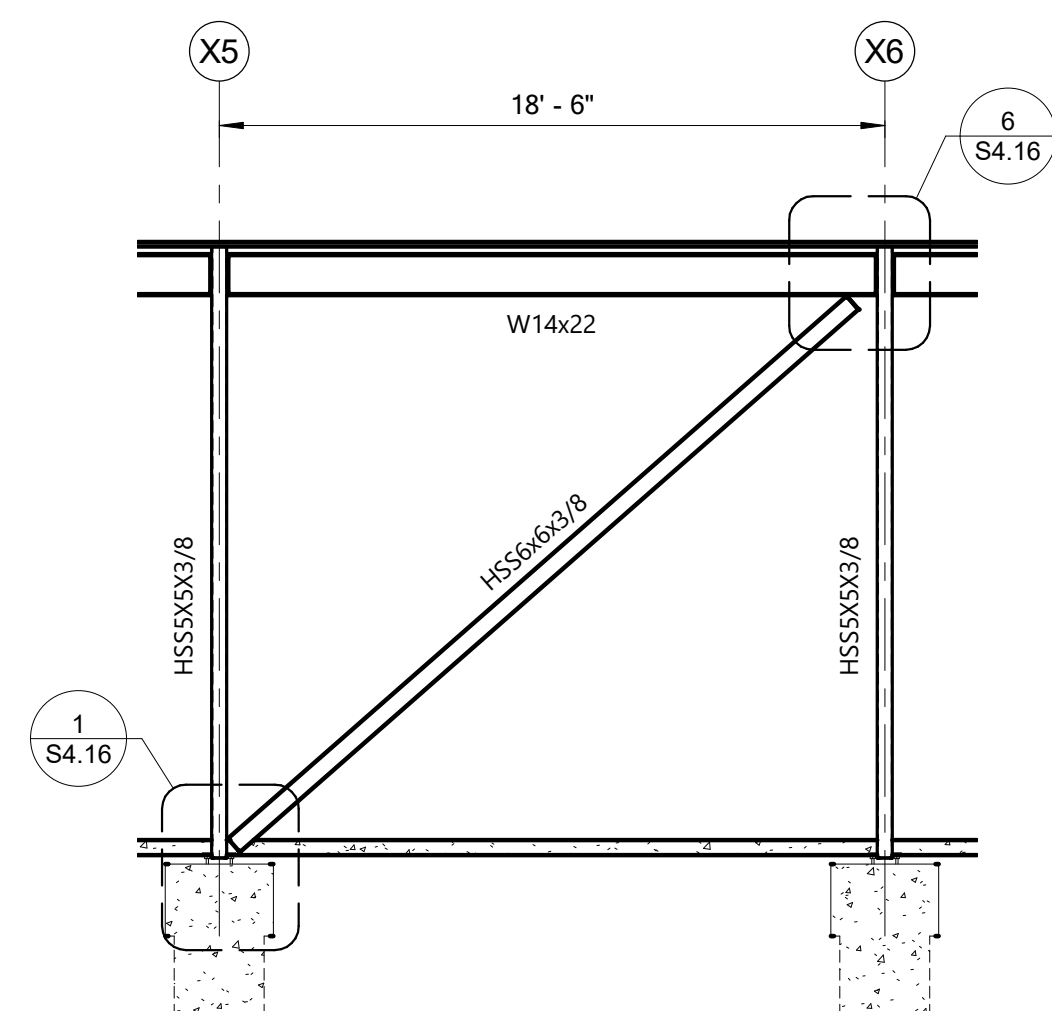


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Scale:
Sht Description:
BRACED FRAME ELEVATIONS

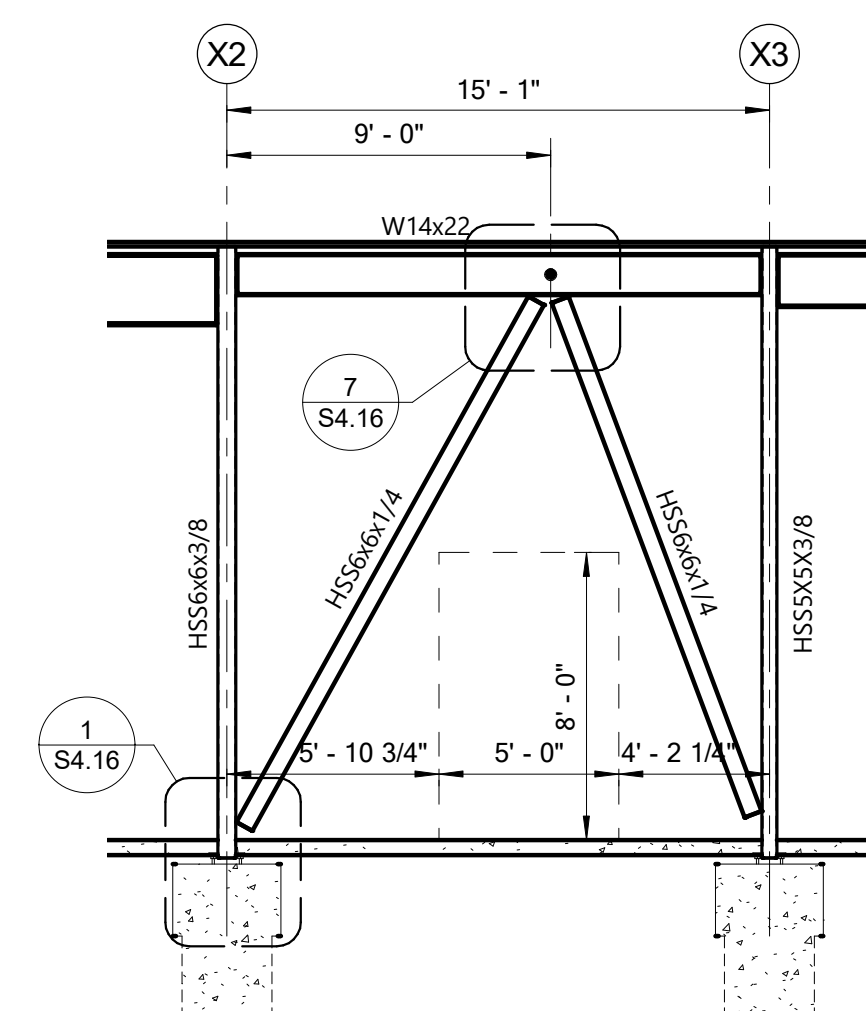
North
S4.12



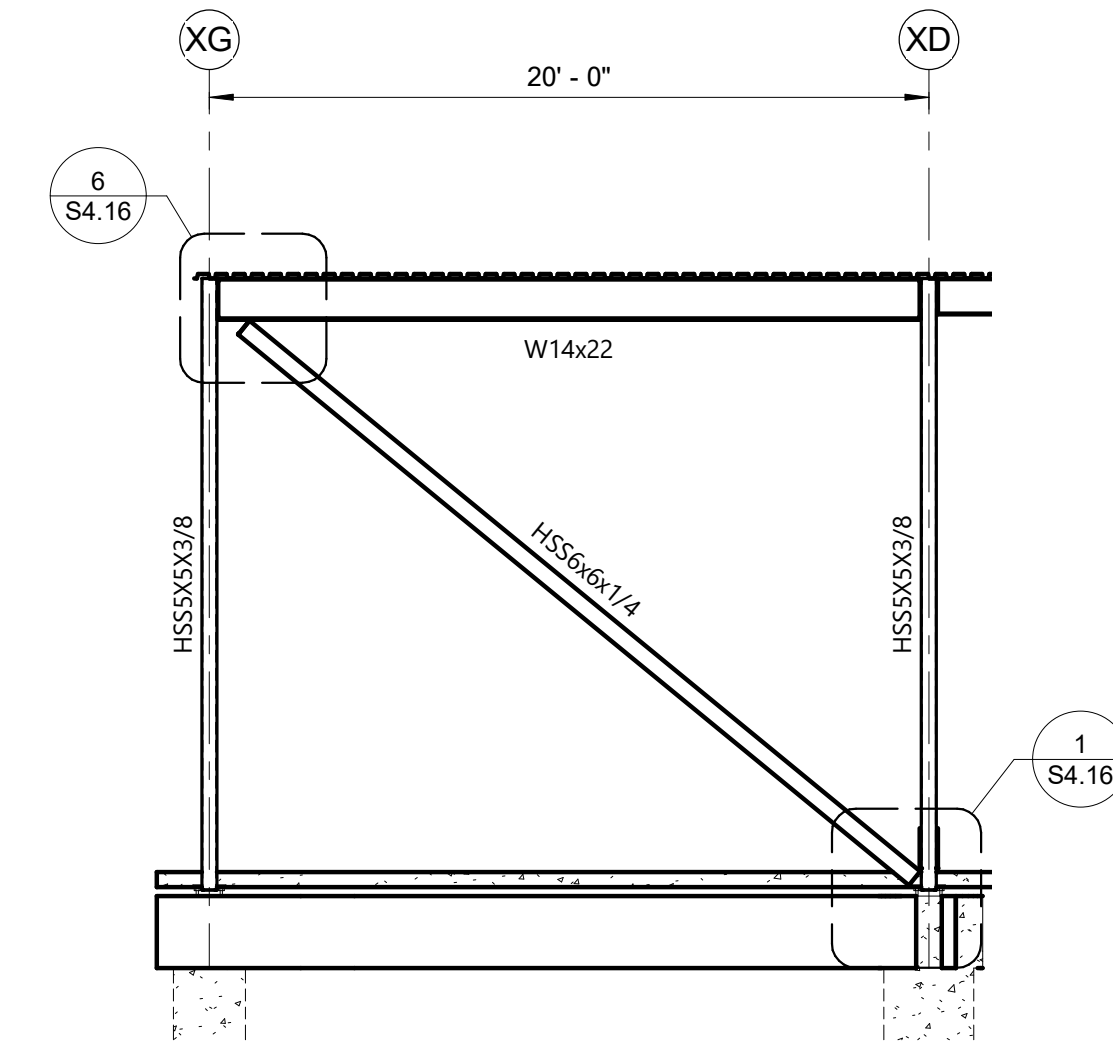
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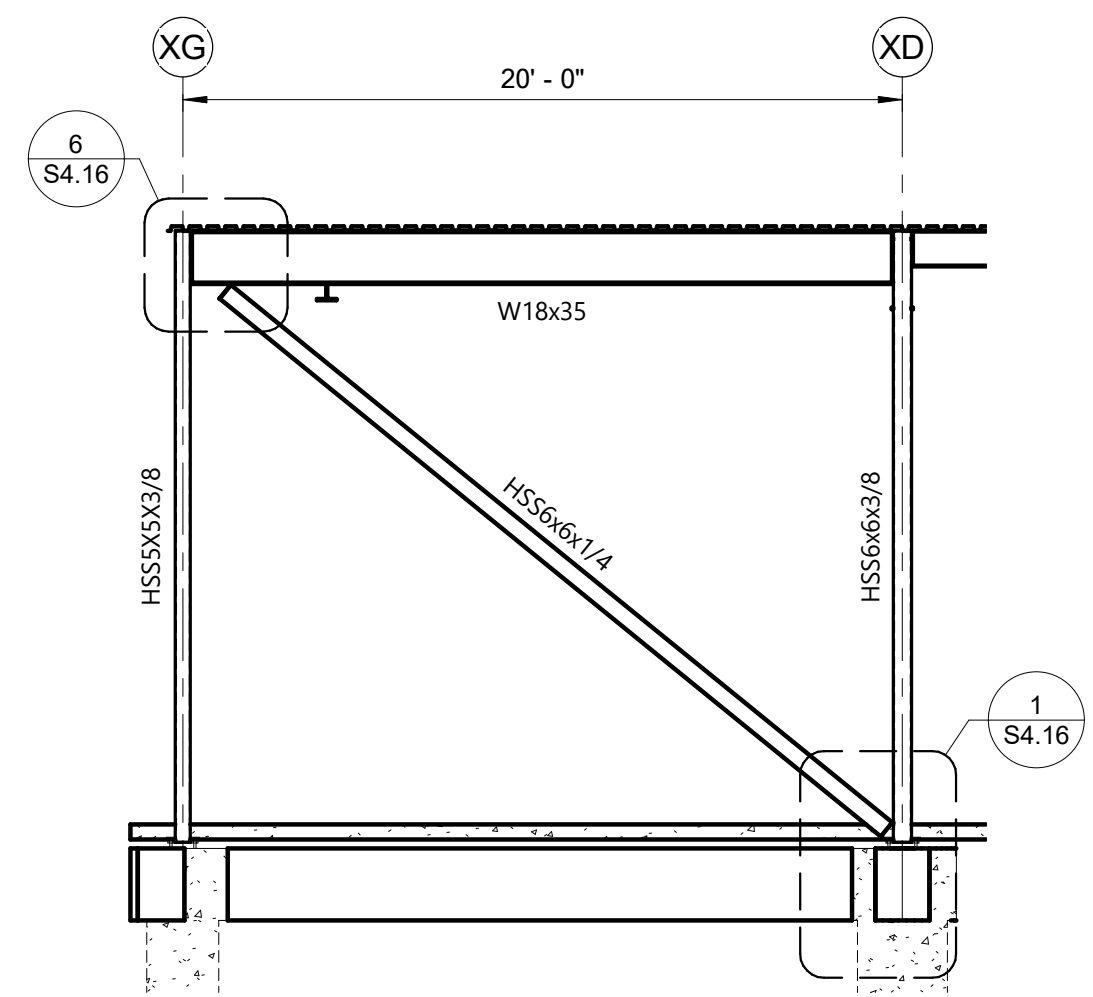
2 Braced Frame BF-XB1 Along Line XB
3/16" = 1'-0"



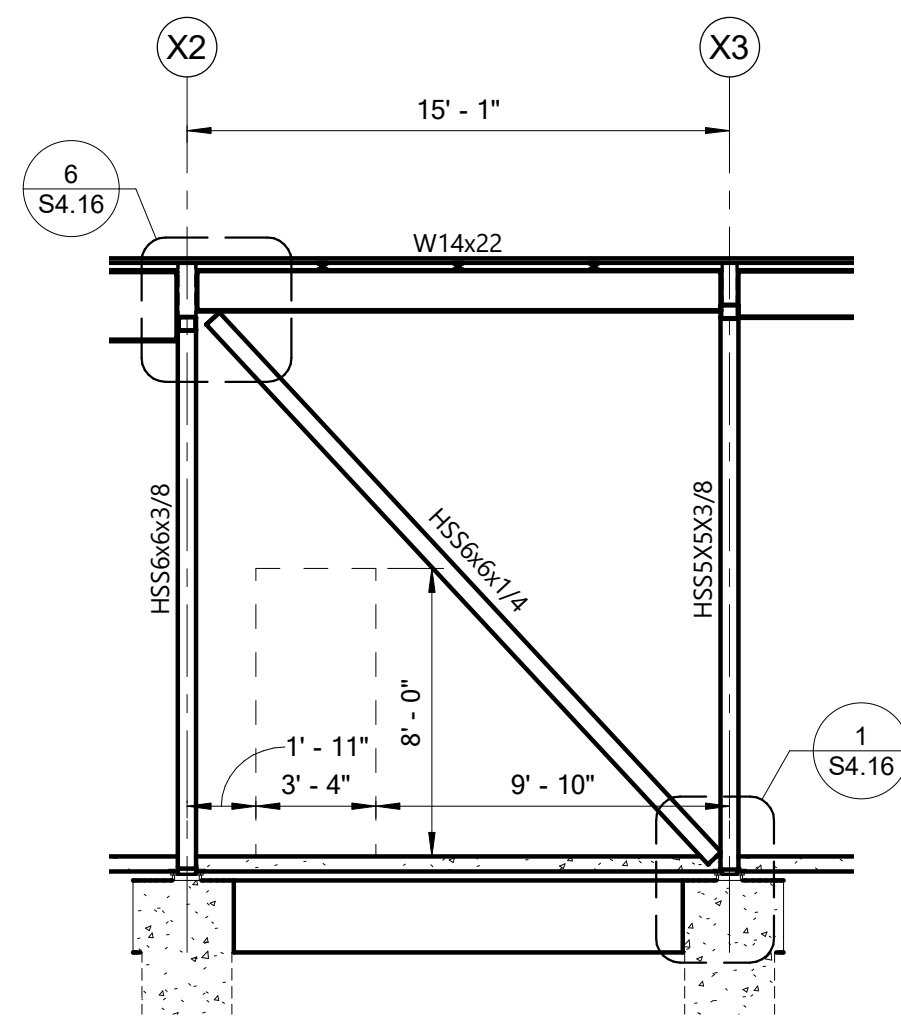
3 Braced Frame BF-XB2 Along Line XB
3/16" = 1'-0"



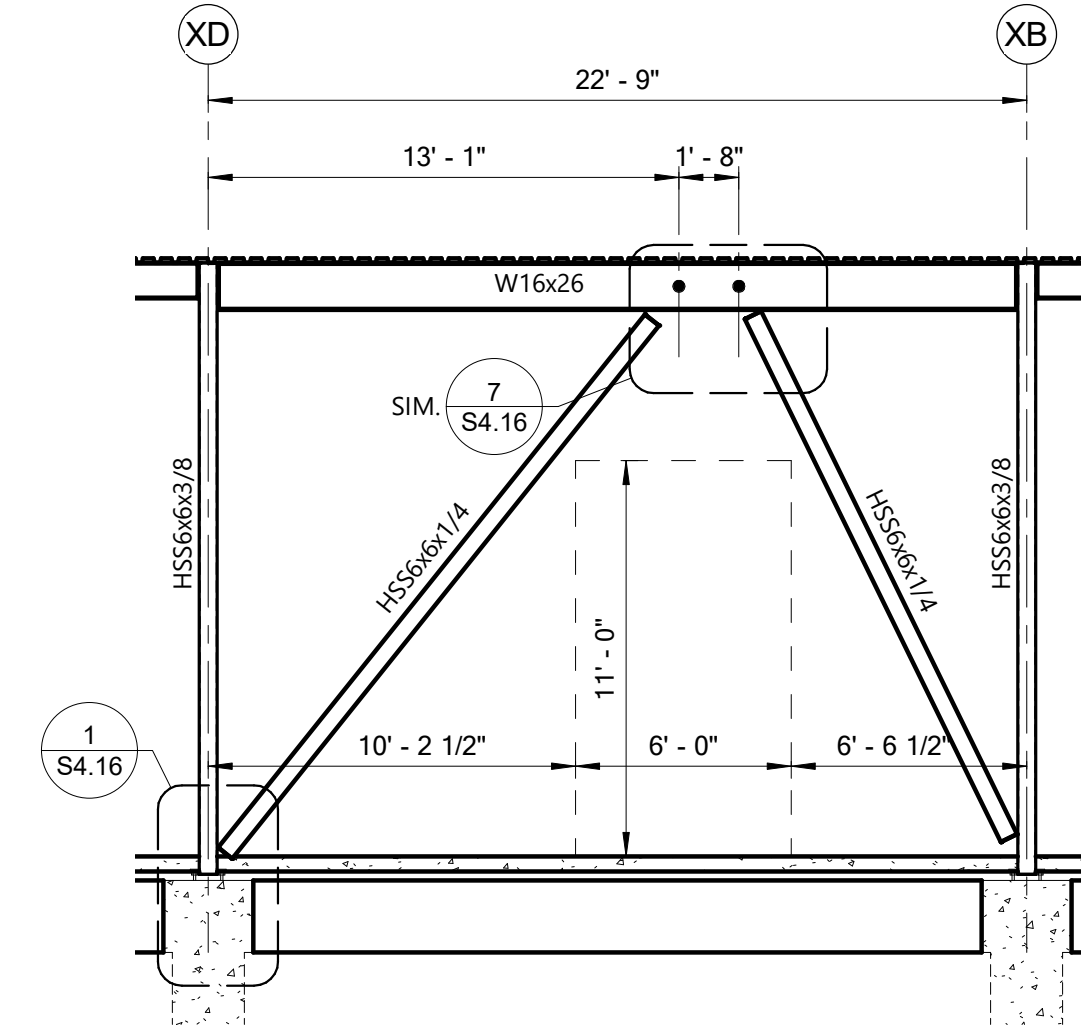
4 Braced Frame BF-X3 Along Line X3
3/16" = 1'-0"



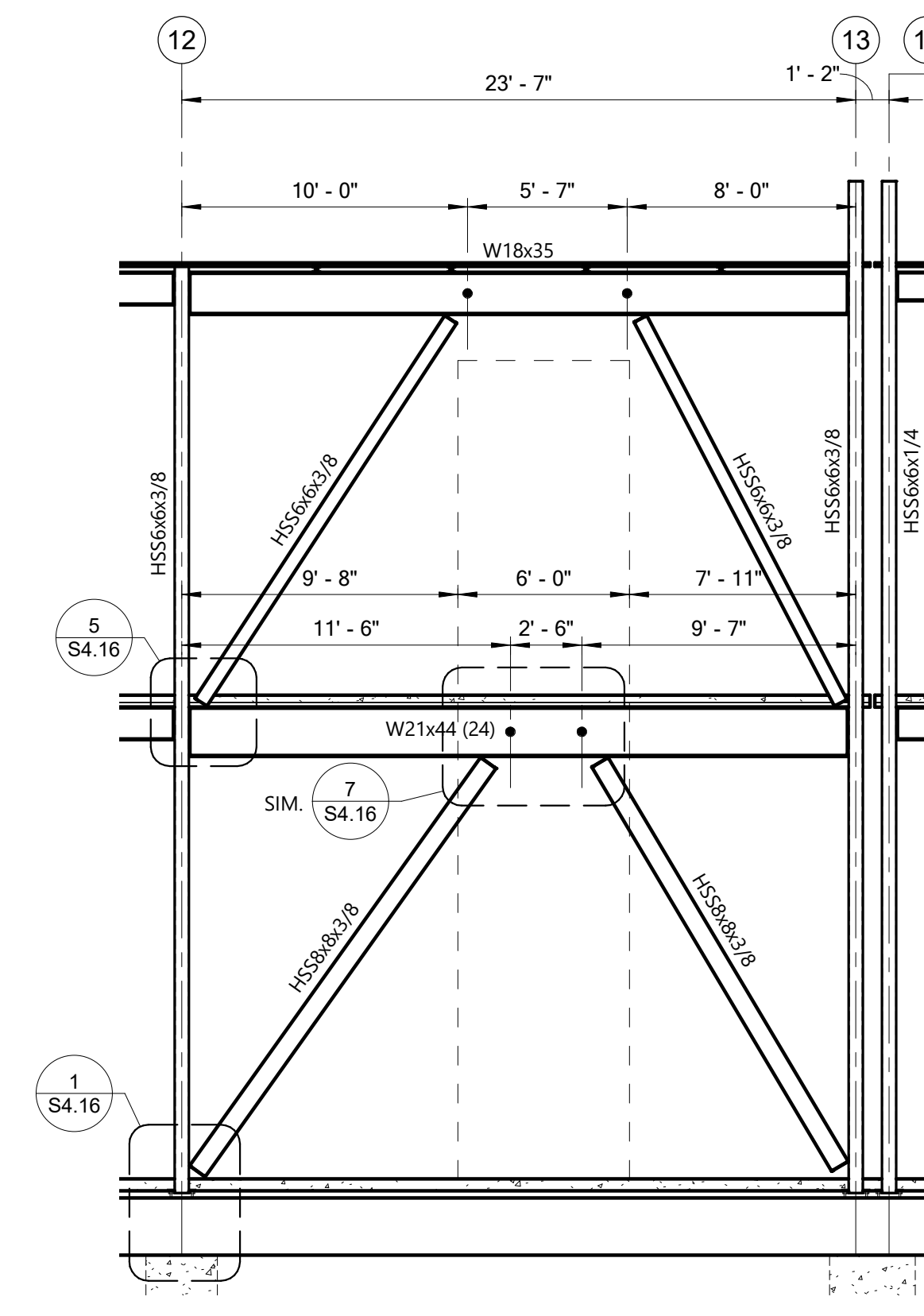
5 Braced Frame BF-X2 Along Line X2
3/16" = 1'-0"



6 Braced Frame BF-XD Along Line XD
3/16" = 1'-0"



7 Braced Frame BF-X1 Along Line X1
3/16" = 1'-0"



8 Braced Frame BF-L1 Along Line L
3/16" = 1'-0"



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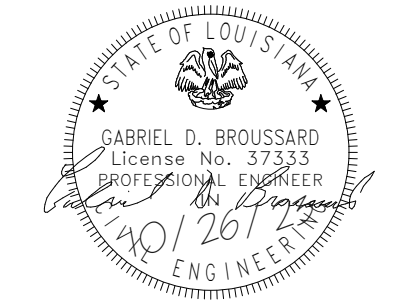


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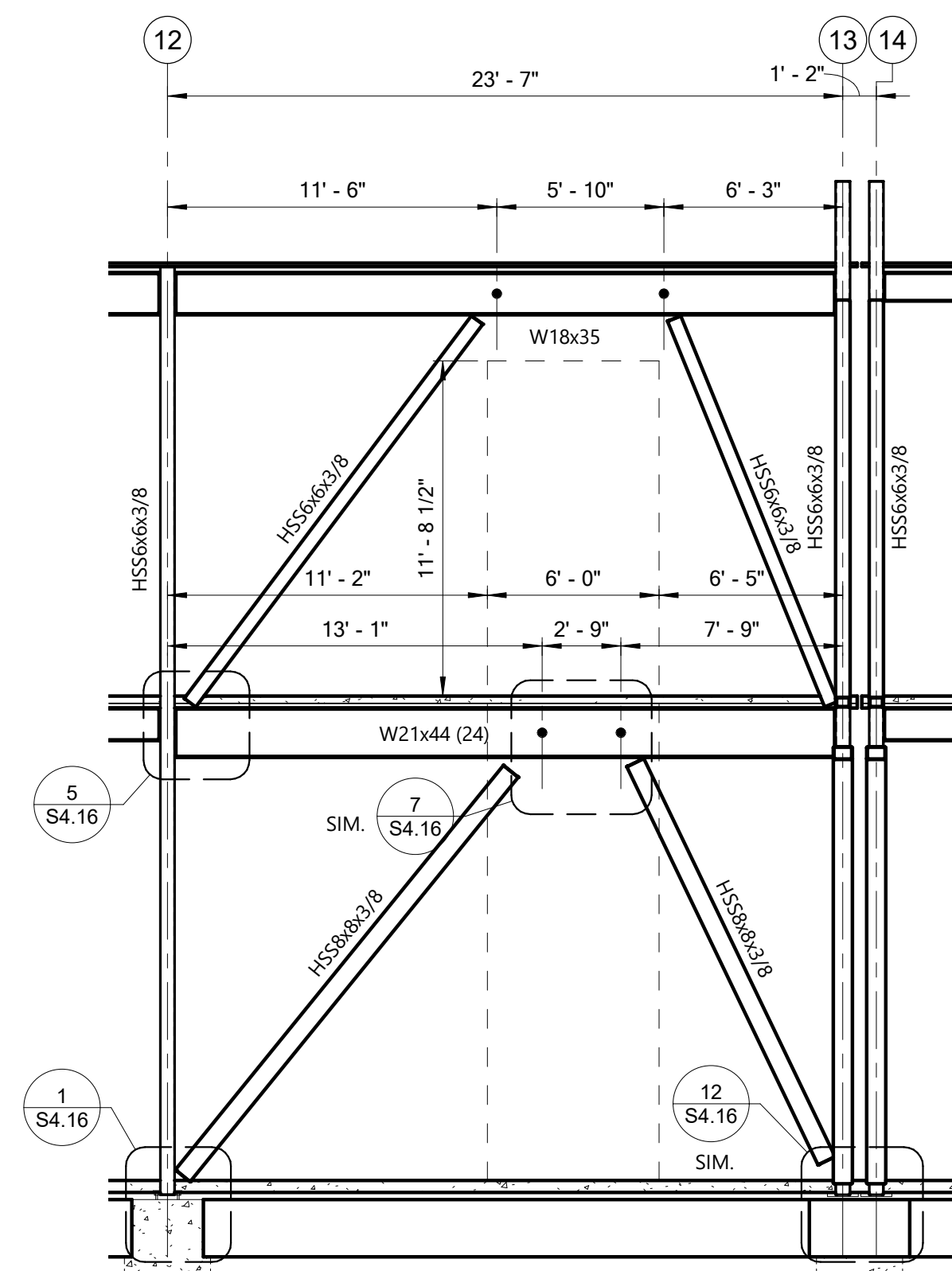
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BRACED FRAME
ELEVATIONS

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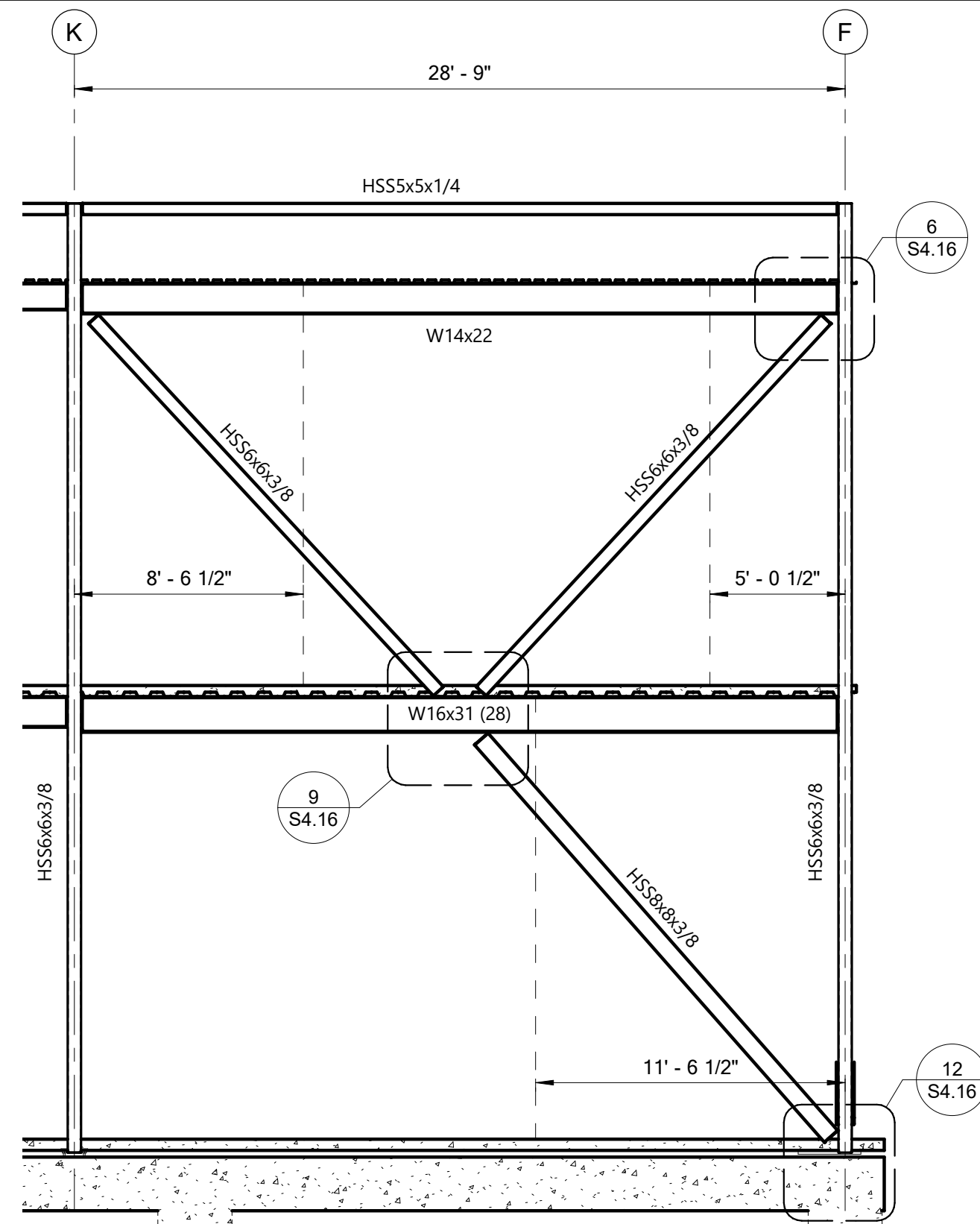
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North
S4.13

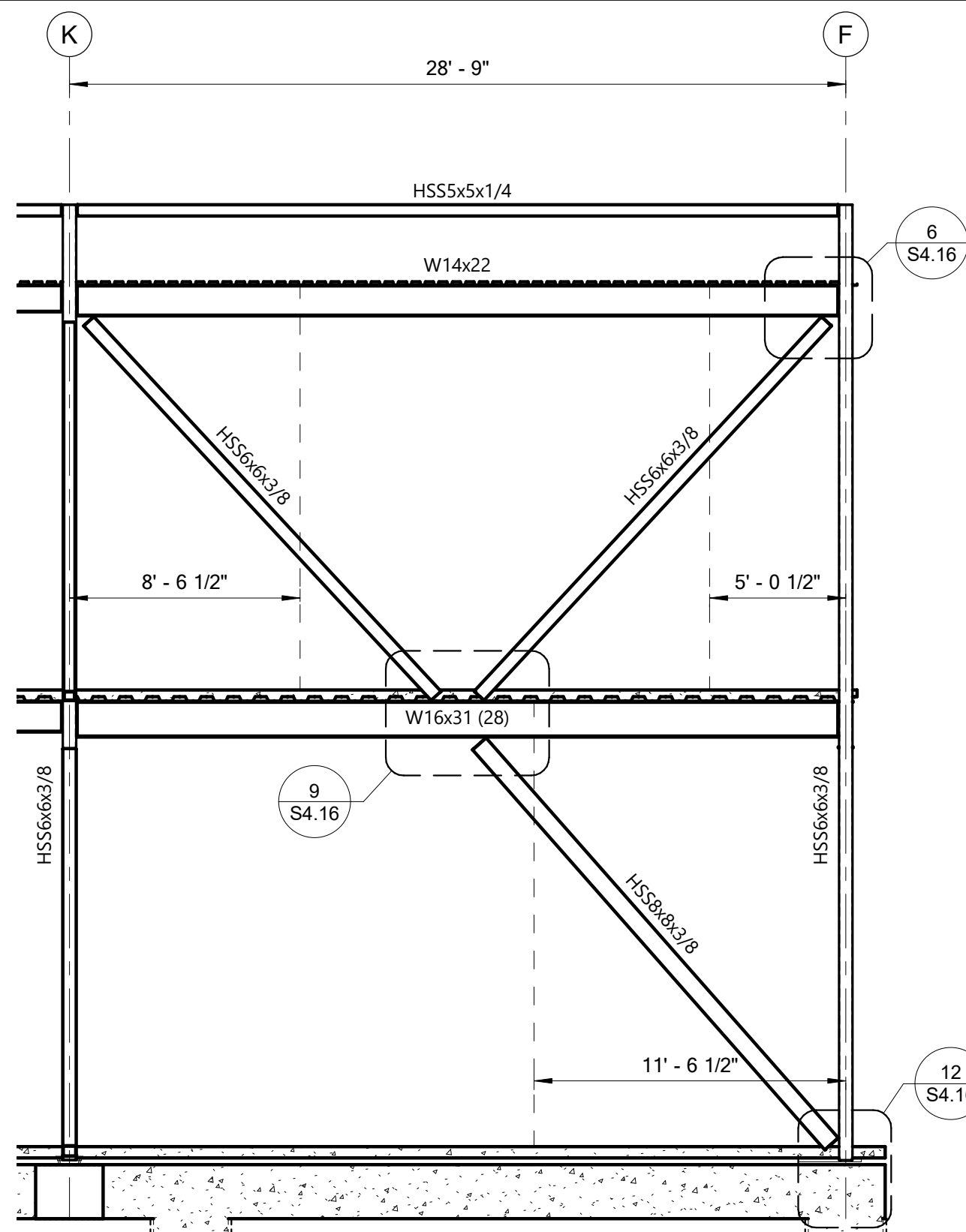
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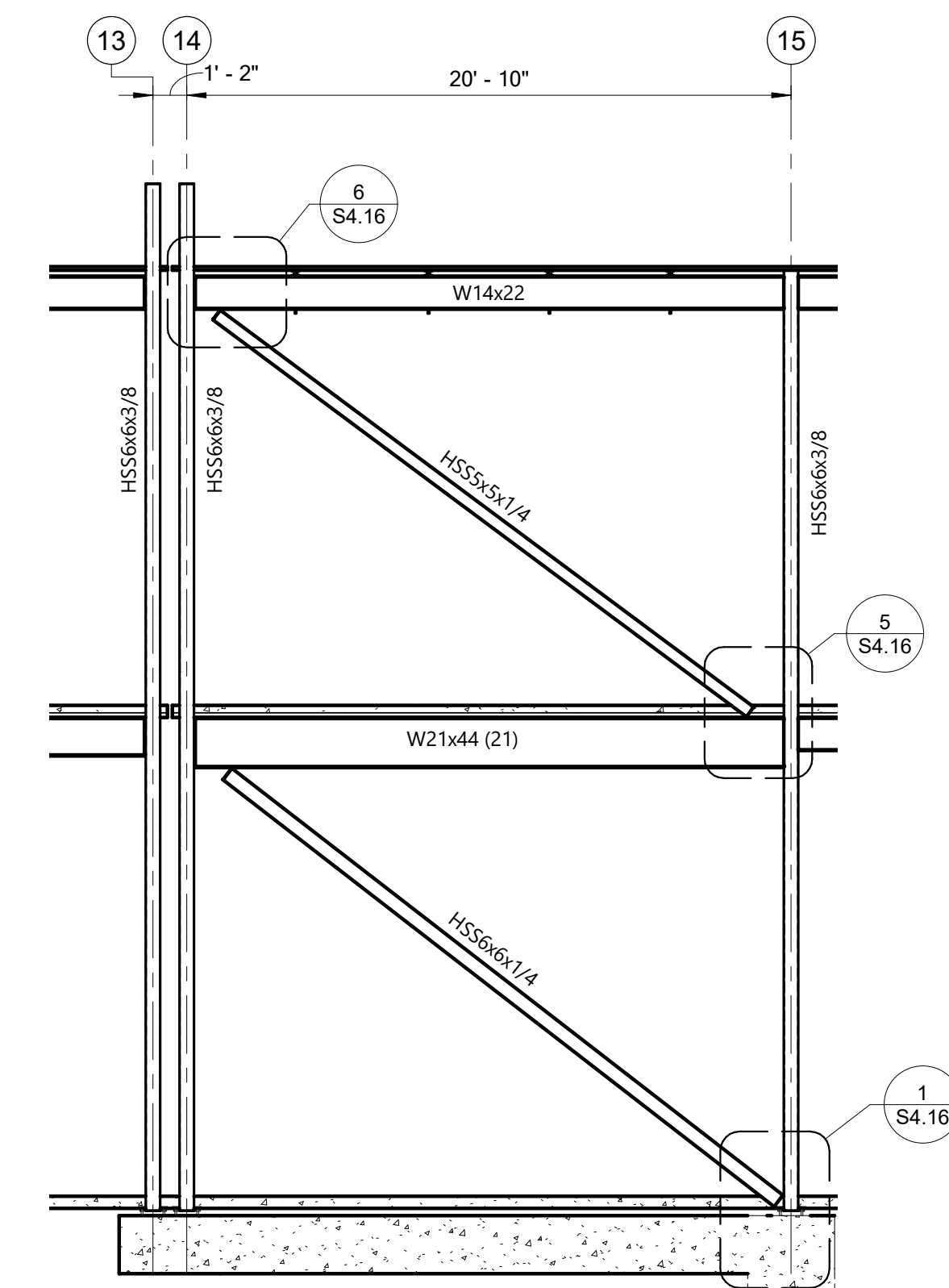
1 Braced Frame BF-F1 Along Line F
3/16" = 1'-0"



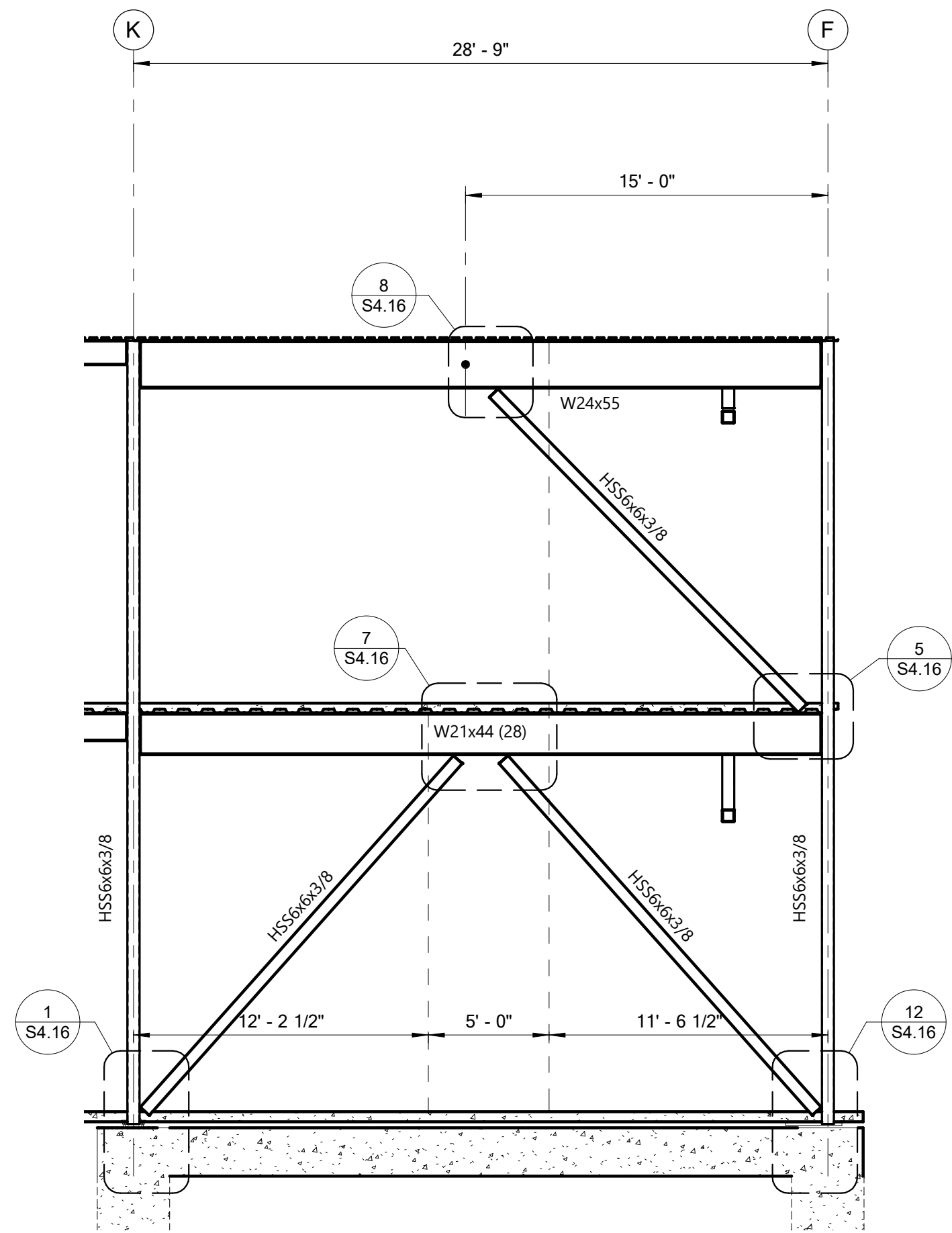
2 Braced Frame BF-13 Along Line 13
3/16" = 1'-0"



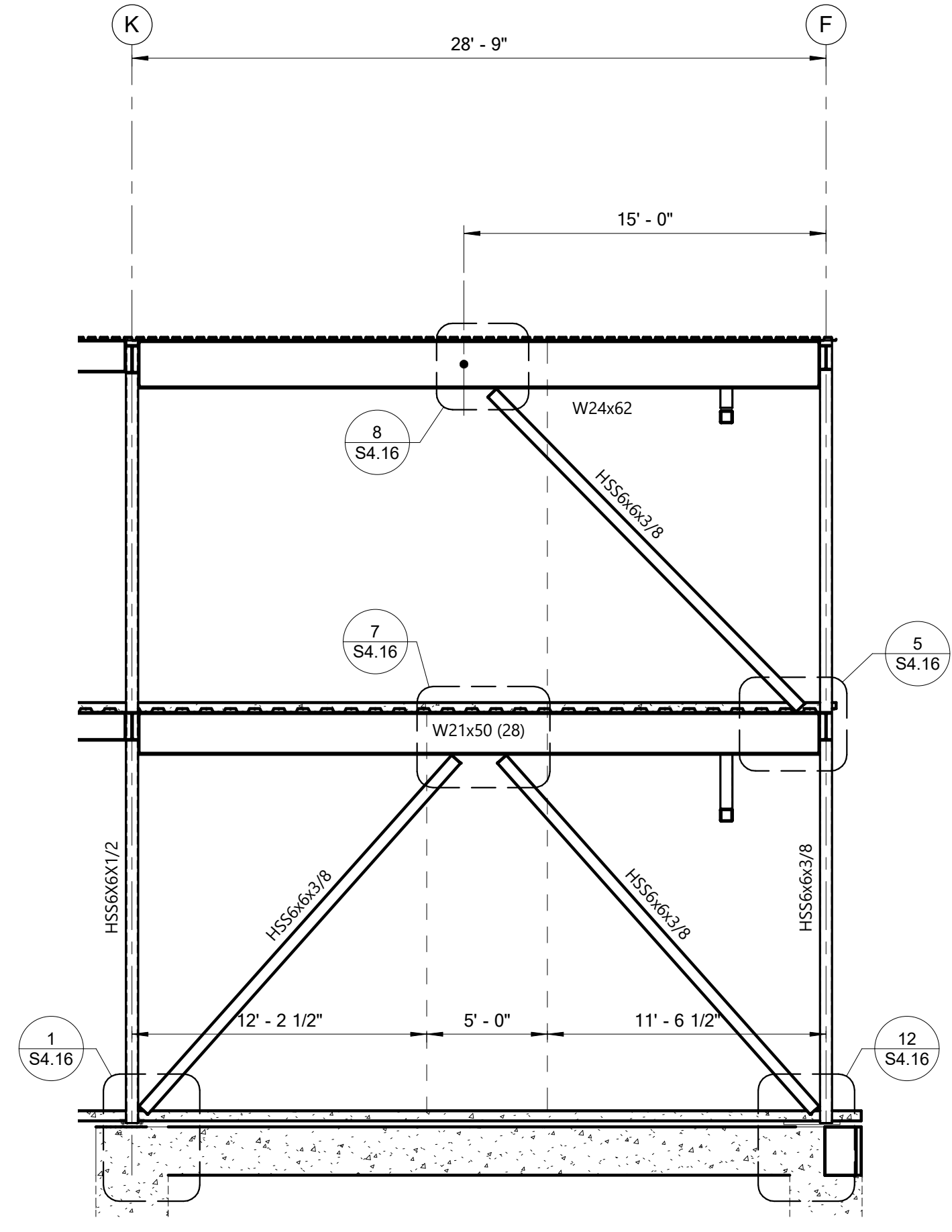
3 Braced Frame BF-14 Along Line 14
3/16" = 1'-0"



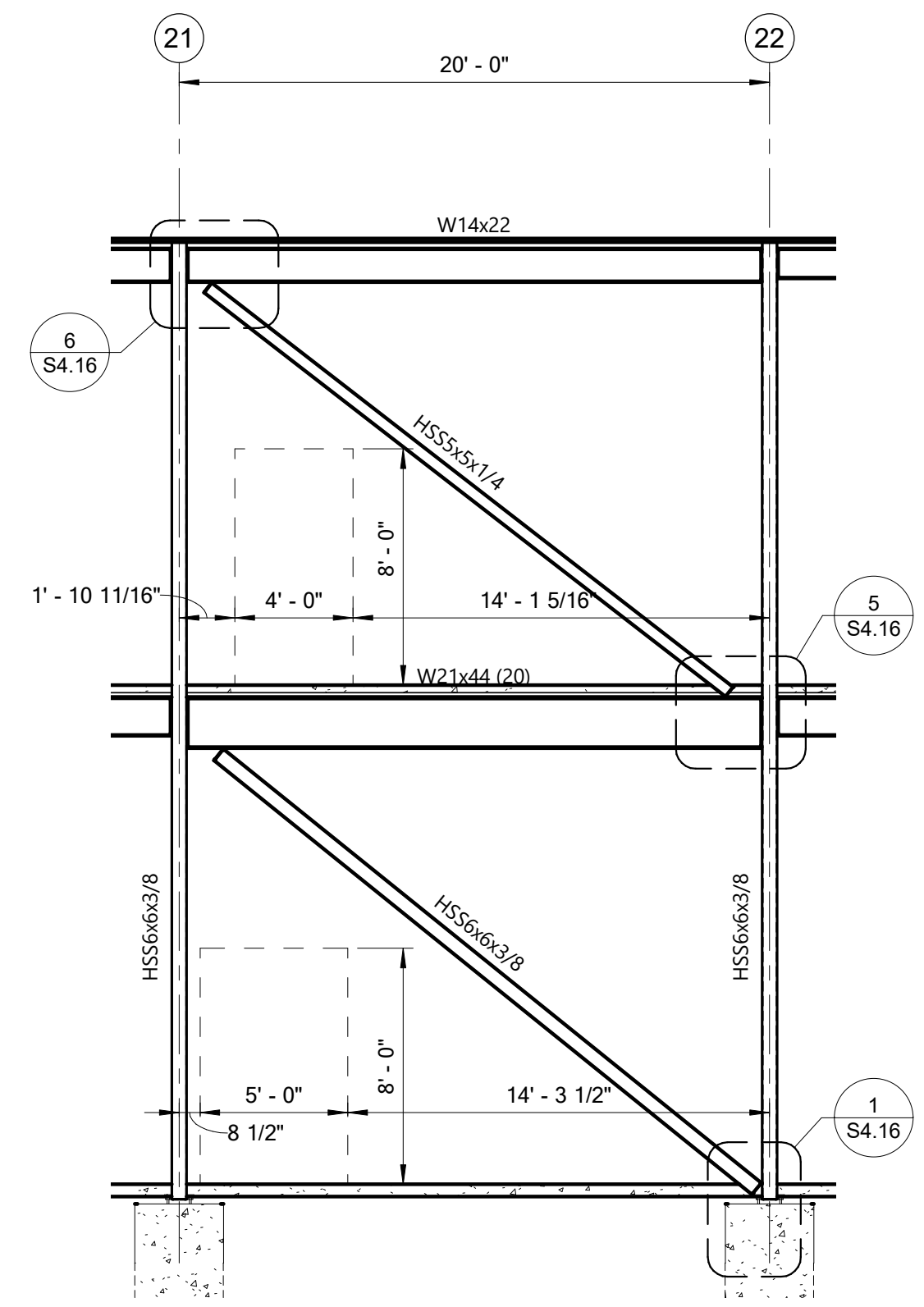
4 Braced Frame BF-K1 Along Line K
3/16" = 1'-0"



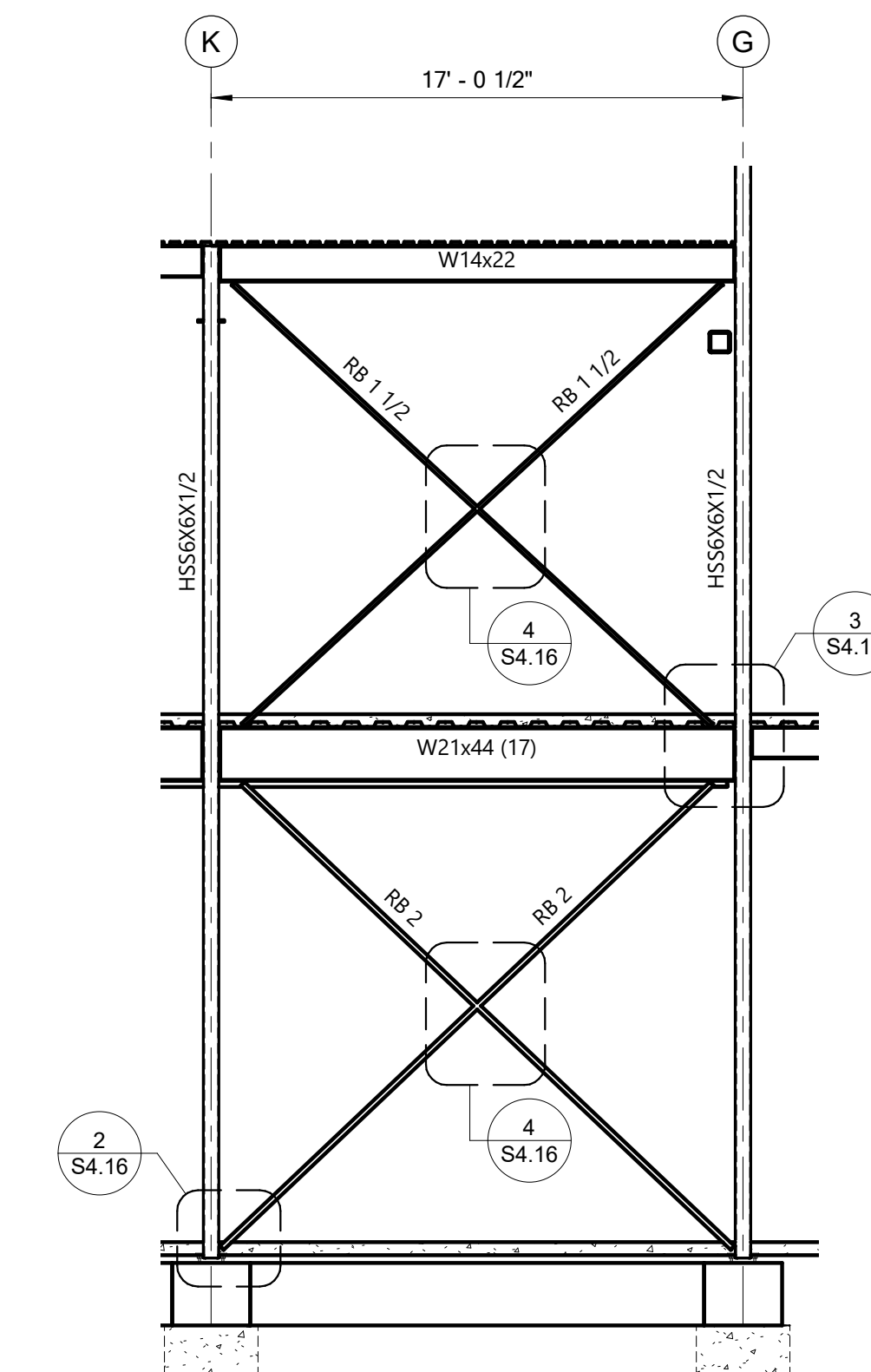
5 Braced Frame BF-17 Along Line 17
3/16" = 1'-0"



6 Braced Frame BF-18 Along Line 18
3/16" = 1'-0"



7 Braced Frame BF-K2 Along Line K
3/16" = 1'-0"



8 Braced Frame BF-10 Along Line 10
3/16" = 1'-0"

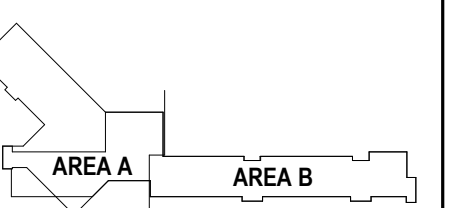


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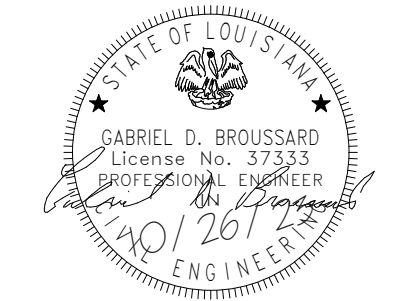
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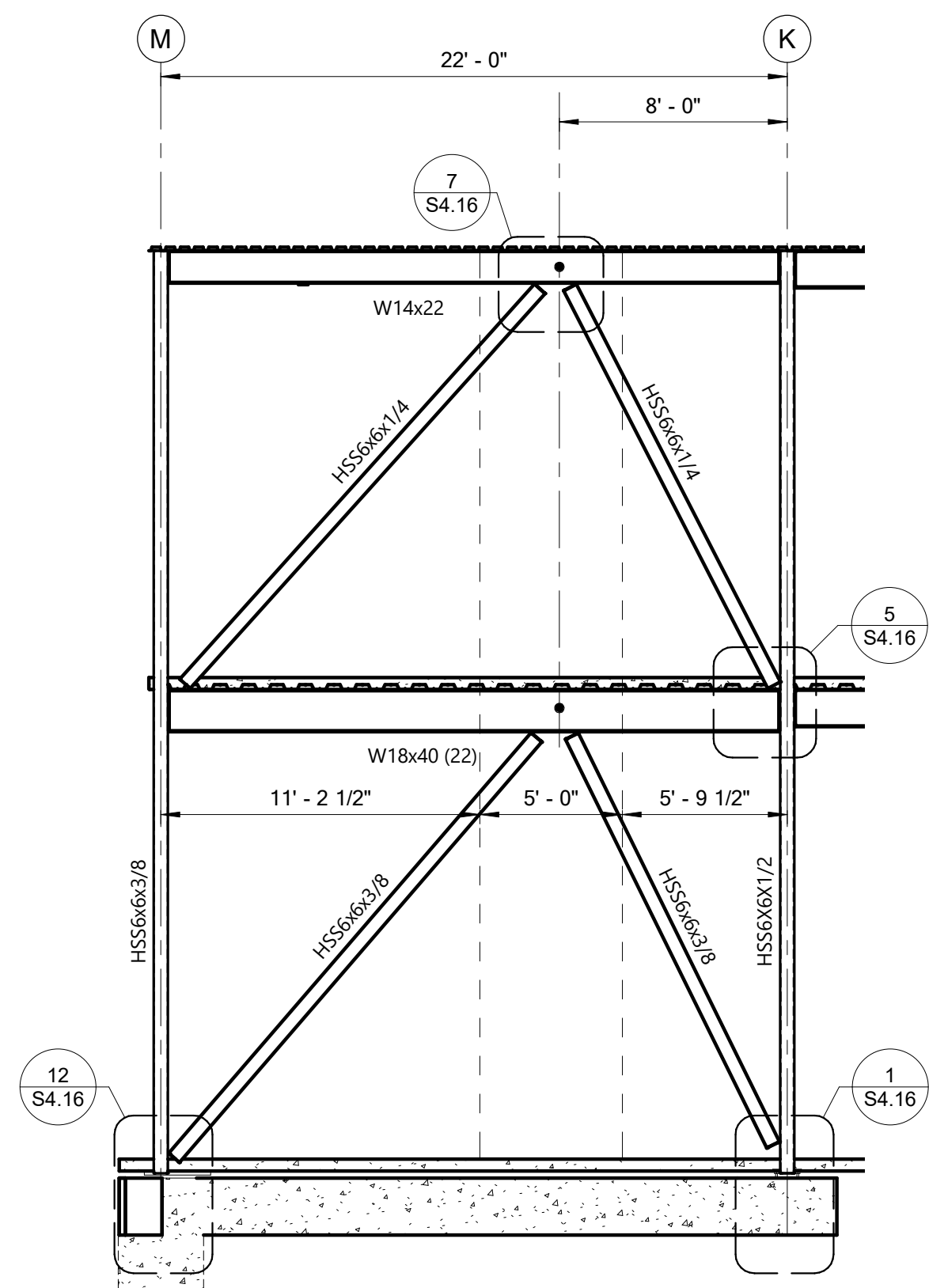
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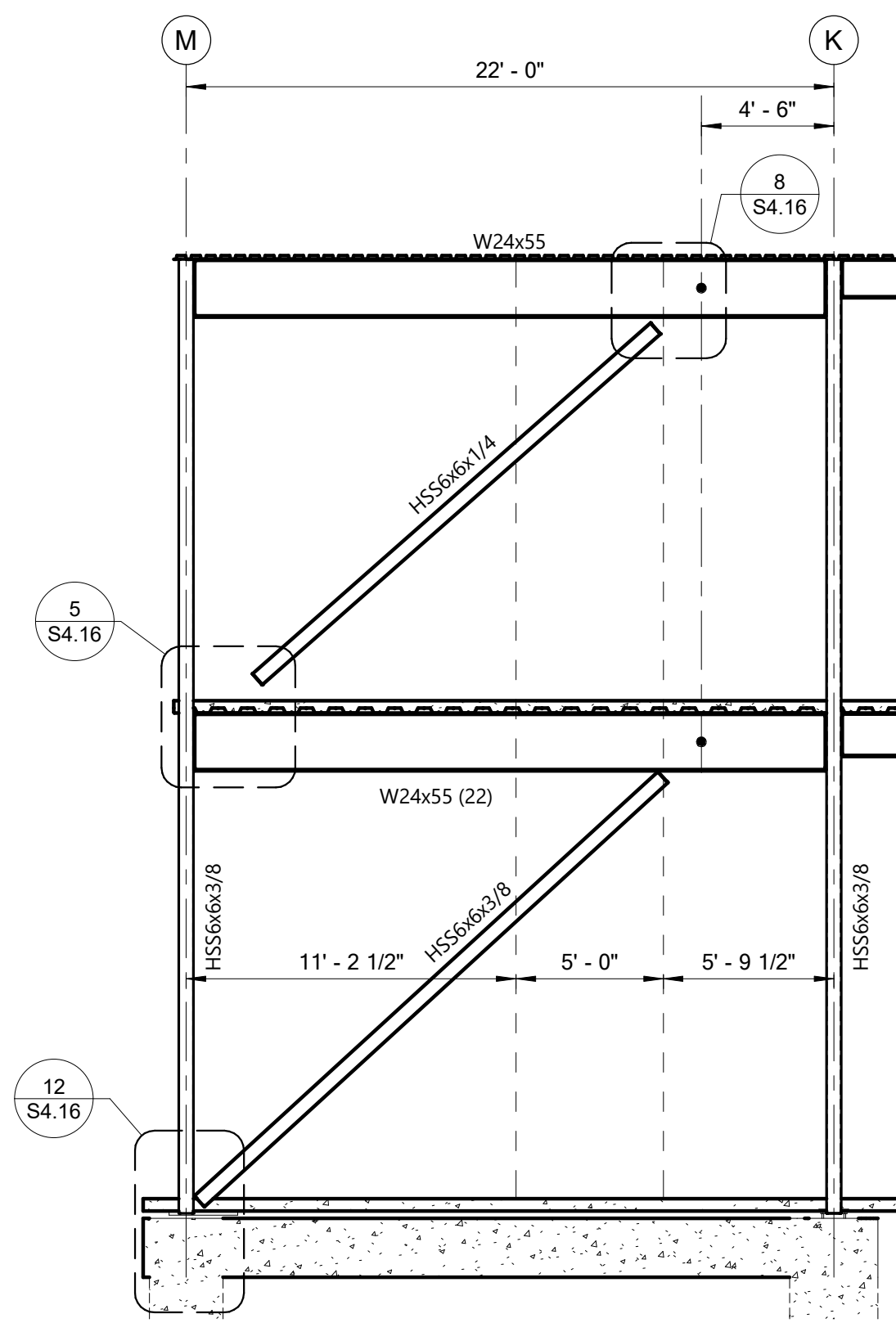
North **S4.14**

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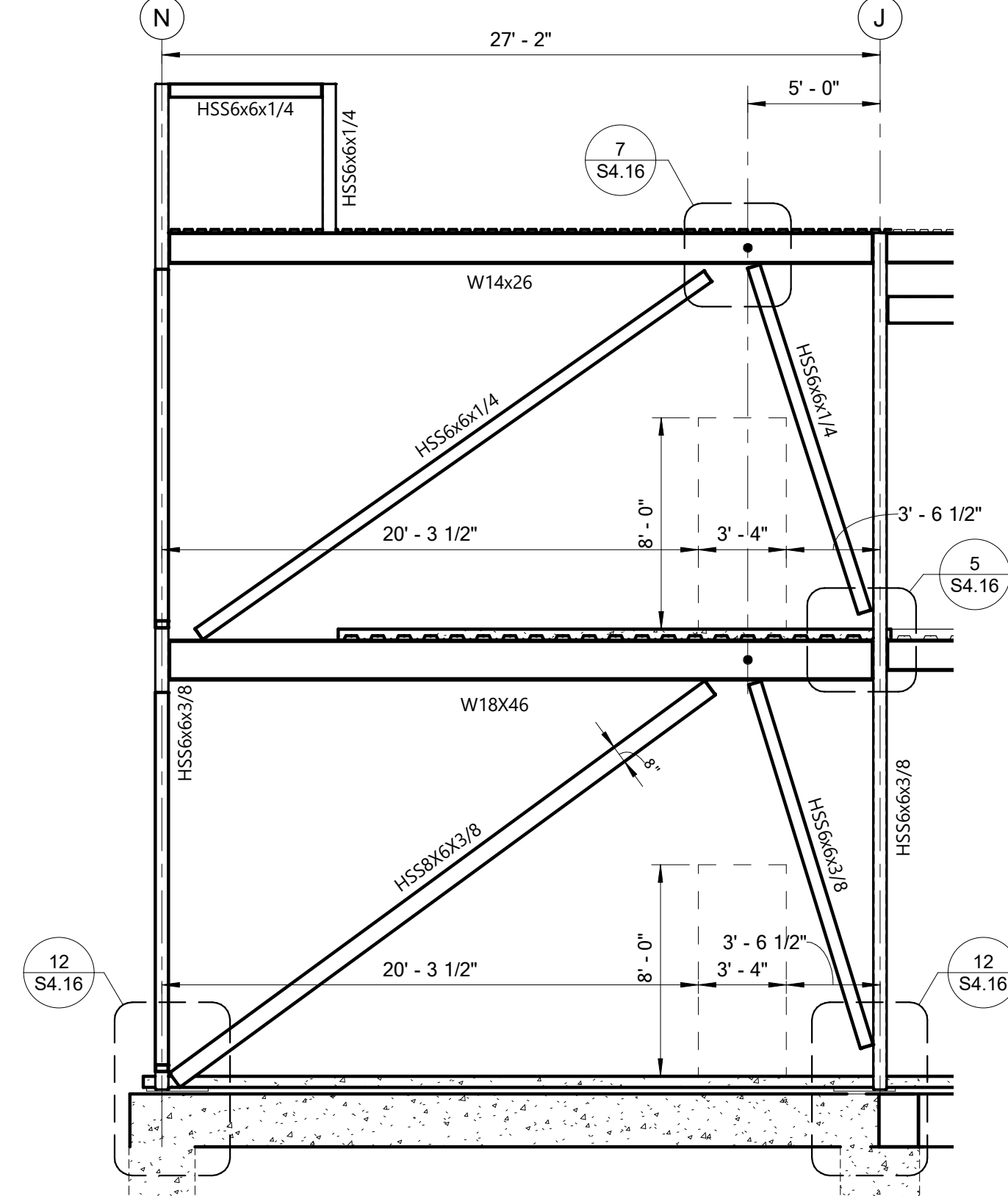
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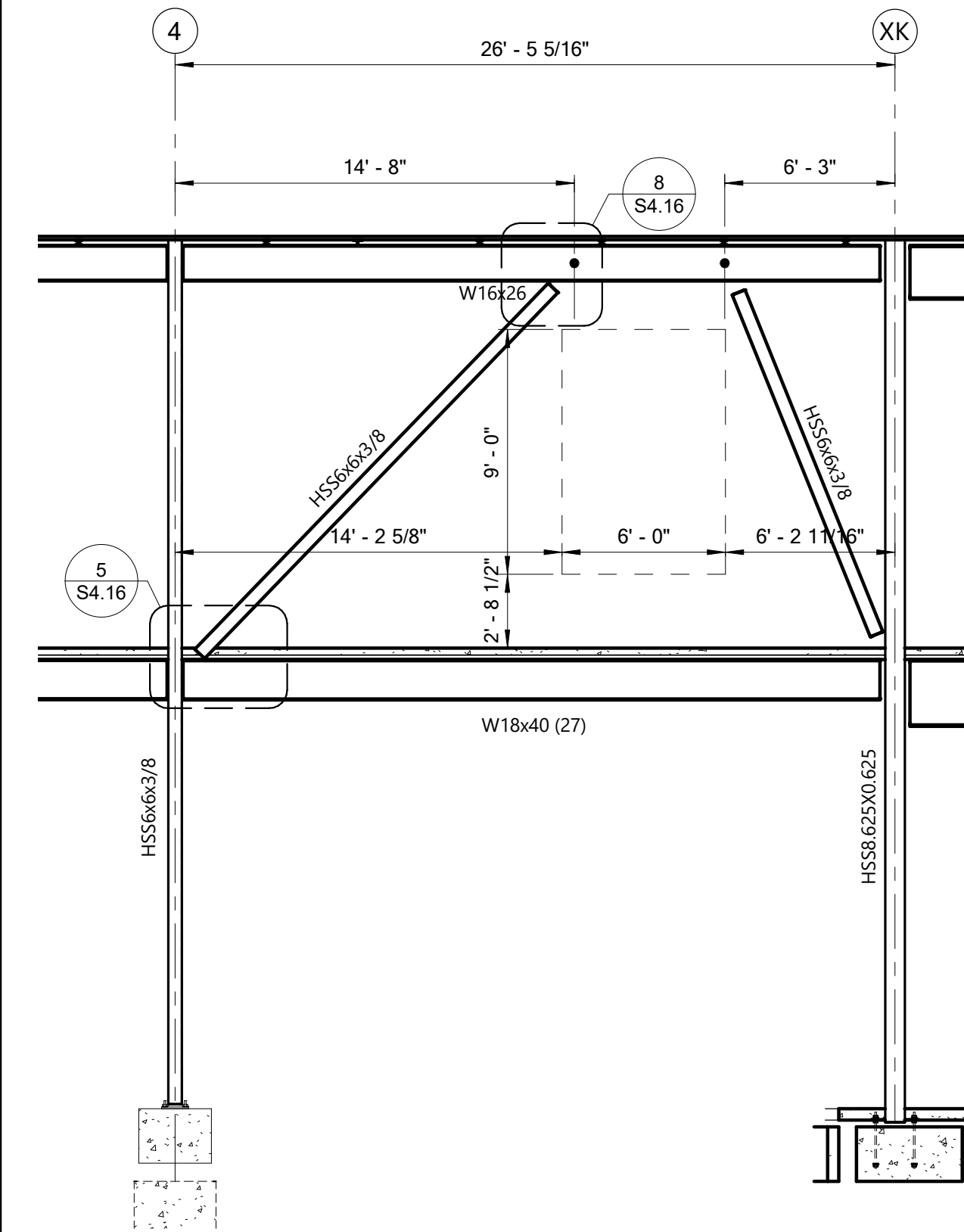
1 Braced Frame BF-23 Along Line 23
3/16" = 1'-0"



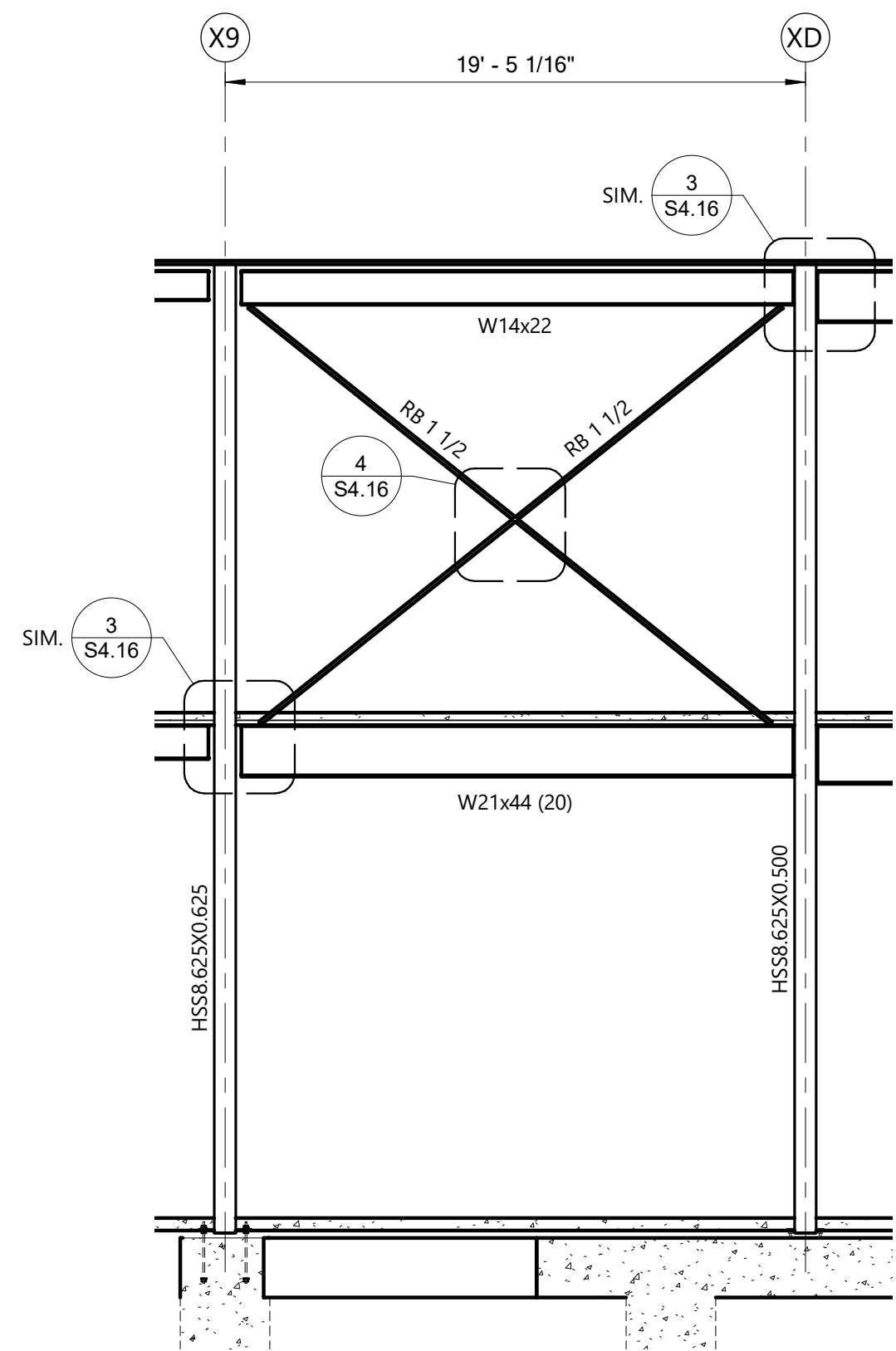
2 Braced Frame BF-24 Along Line 24
3/16" = 1'-0"



3 Braced Frame BF-27 Along Line 27
3/16" = 1'-0"

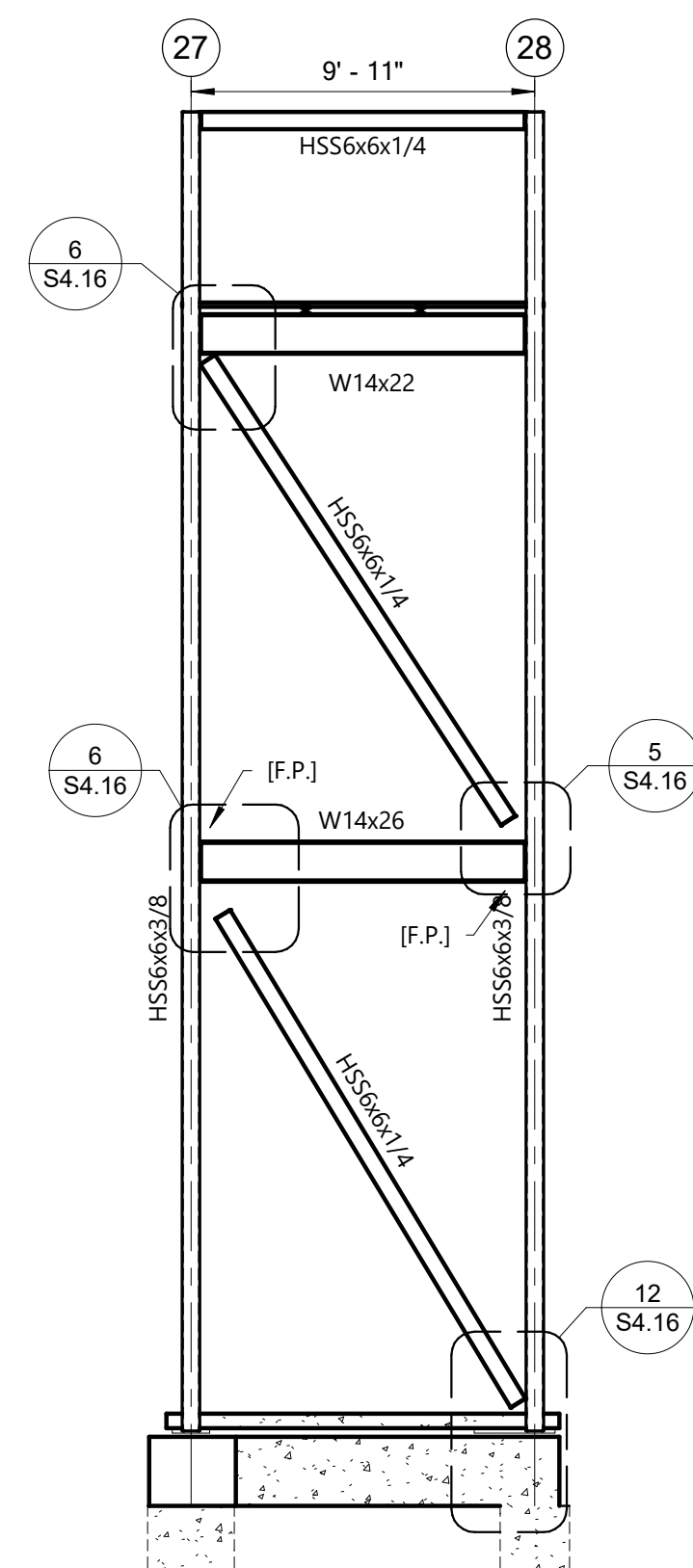


4 Braced Frame BF-L2 Along Line L
3/16" = 1'-0"

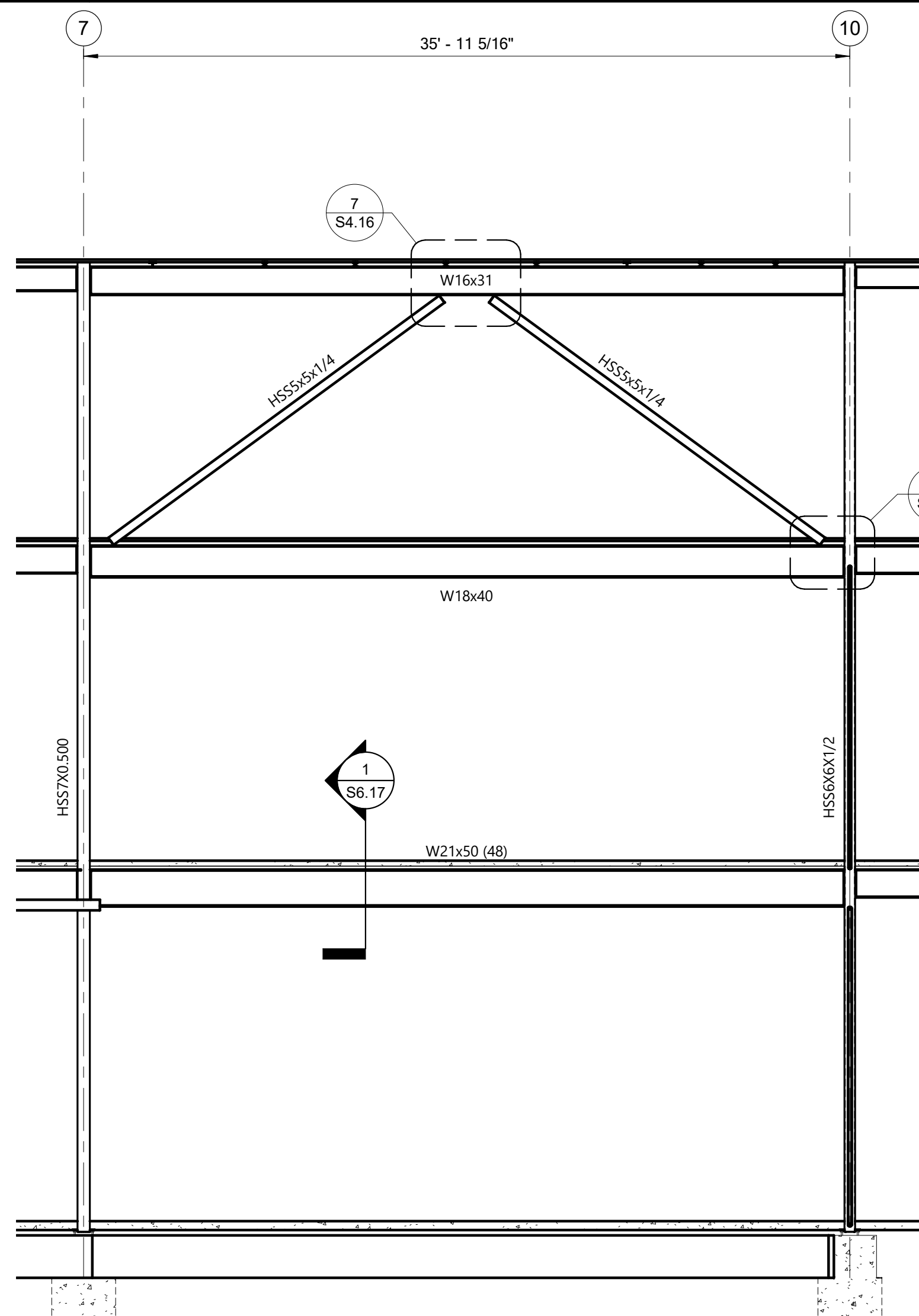


5 Braced Frame BF-E Along Line E
3/16" = 1'-0"

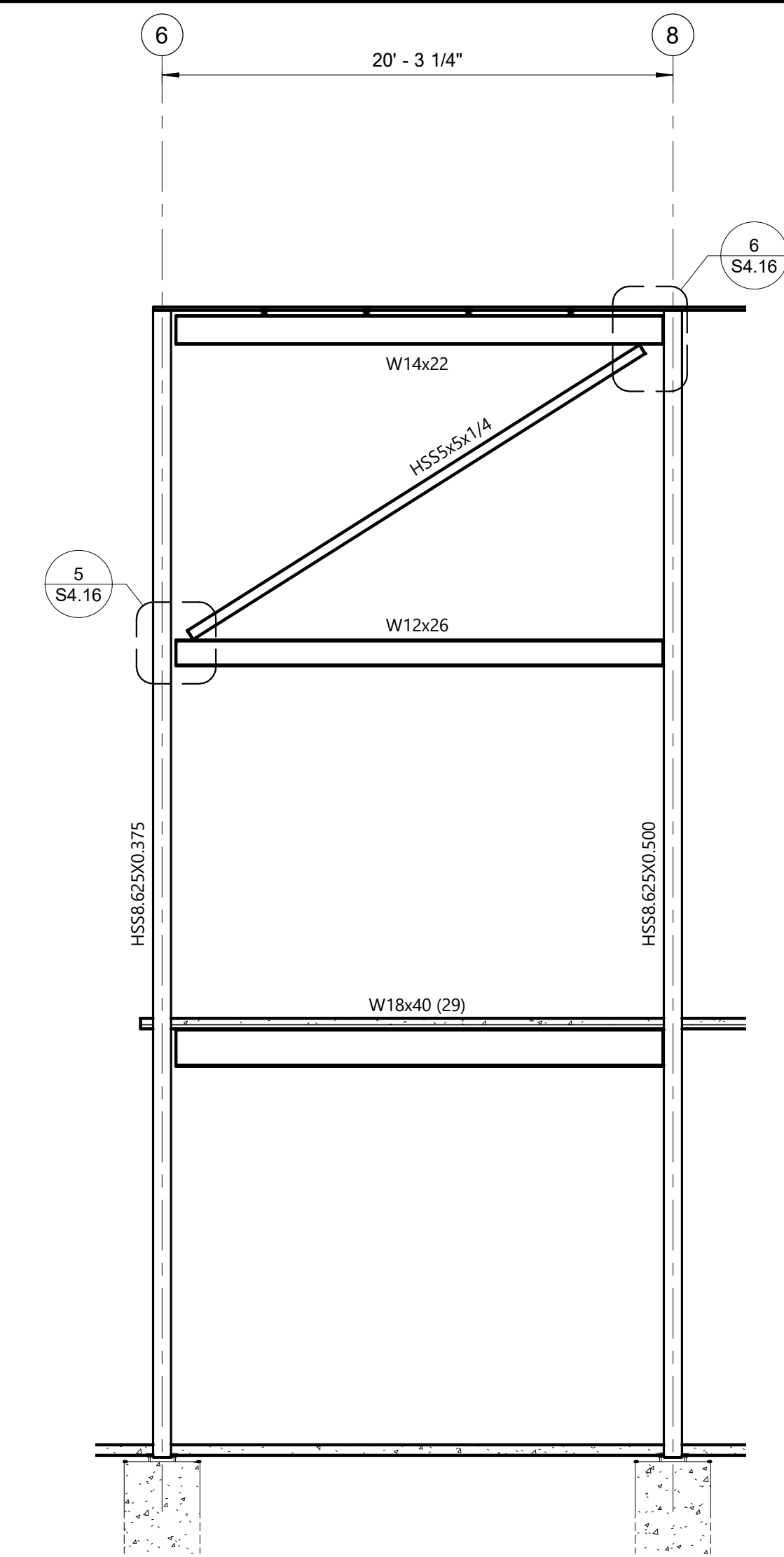
[F.P.] = PROVIDE 3/8" THICK x 6" LONG x 3 1/2" WIDE FLANGE PLATE TO FLANGE OF BEAM INDICATED. SHOP WELD BOTH SIDES CONT. TO BEAM WITH 1/4" FILLET WELD. FASTEN TO FLANGE OF BEAM WITH (2)-3/4" DIA. A325-TC BOLTS.



6 Braced Frame BF-N Along Line N
3/16" = 1'-0"



7 Braced Frame BF-G Along Line G
3/16" = 1'-0"

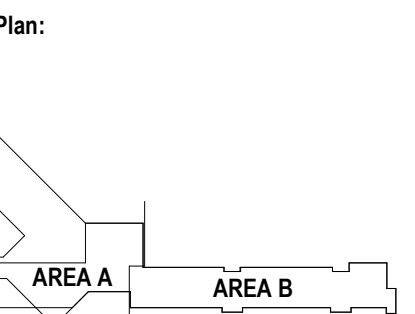


8 Braced Frame BF-C Along Line C
3/16" = 1'-0"

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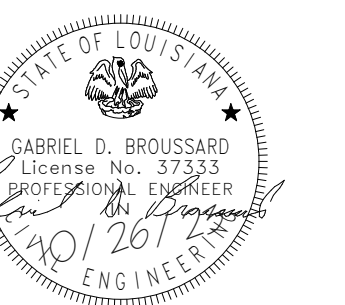
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Sht Description:
BRACED FRAME
ELEVATIONS

North
S4.15

Keynote Legend

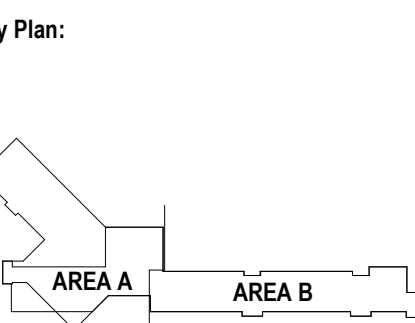
- 1 STEEL COLUMN - SEE PLAN FOR SIZE.
- 2 STANDARD SINGLE PLATE BEAM CONNECTION. RE: TYPICAL BEAM TO HSS COLUMN CONNECTION SCHEDULE AND DETAIL. FIELD WELD 3 SIDES OF PLATE TO WEB OF BEAM USING 1/4" FILLET WELD AT BRACED FRAME BEAM.
- 3 STEEL BEAM - SEE PLAN FOR SIZE.
- 4 DIAGONAL BRACE MEMBER - SEE ELEVATIONS FOR SIZE.
- 5 (1)-3/4" DIA. A325-N BOLT FOR ERECTION. FIELD WELD TUBE TO PLATE ALL AROUND ON BOTH SIDES OF PLATE WITH 1/4" FILLET WELD. PROVIDE 15/16" DIA. HOLES IN BRACE AND GUSSET PLATE.
- 6 3/4" THICK GUSSET PLATE SHOP WELDED TO BEAM WITH CONTINUOUS 1/4" FILLET WELD EACH SIDE OF PLATE.
- 7 3/8" WEB STIFFENER BOTH SIDES OF BEAM WEB. WELD CONTINUOUS BOTH SIDES WITH 1/4" FILLET WELD.
- 8 3/4" THICK GUSSET PLATE SHOP WELDED TO COLUMN AND BASE PLATE WITH CONTINUOUS 5/16" FILLET WELD EACH SIDE OF PLATE.
- 9 3/4" THICK GUSSET PLATE SHOP WELDED TO BEAM WITH CONTINUOUS 5/16" FILLET WELD EACH SIDE OF PLATE. FIELD WELD TO COLUMN WITH CONTINUOUS 5/16" FILLET WELD ON EACH SIDE OF PLATE.
- 10 A36 TIE ROD WITH THREADED ENDS, TURNBUCKLE, AND NO. 5 CLEVIS WITH PIN AT BOTH ENDS (TYP.) SEE ELEVATIONS FOR SIZE. USE 2 1/4" DIA. PIN AT 1 1/2" DIA. RODS AND 2 1/2" DIA. PIN AT 2" DIA. RODS.
- 11 3/4" GRADE 50 GUSSET PLATE WITH STANDARD PIN HOLES.
- 12 3/4" THICK GUSSET PLATE SHOP WELDED TO COLUMN WITH 3/8" CONTINUOUS FILLET WELD BOTH SIDES AND FIELD WELDED TO EMBED PLATE WITH 3/8" CONTINUOUS FILLET WELD.
- 13 EMBED BASE PLATE. RE: 6/55.12.
- 14 3/4" GRADE 50 GUSSET PLATE CENTERED ON BEAM WITH STANDARD PIN HOLE. SHOP WELD CONTINUOUS BOTH SIDES TO BEAM. FIELD WELD BOTH SIDES CONTINUOUS TO COLUMN. USE 1/4" FILLET WELD (TYP.).
- 15 3/4" GRADE 50 GUSSET PLATE CENTERED ON COLUMN WITH STANDARD PIN HOLE. SHOP WELD CONTINUOUS BOTH SIDES TO COLUMN AND BASE PLATE. USE 5/16" FILLET WELD (TYP.).
- 16 1" THICK X 2'-3" LONG X 9" WIDE GRADE 50 BASE PLATE WITH (10)-#5 A706 WELDABLE REBAR ANCHORS WELDED TO BOTTOM OF PLATE WITH 3/8" THICK FILLET WELD ALL AROUND. PLATE ASSEMBLY SHALL BE SET PRIOR TO PLACEMENT OF GRADE BEAM CONCRETE.
- 17 3/4" GUSSET PLATE. FIELD WELD BOTH SIDES CONTINUOUS TO BASE PLATE WITH 1/4" FILLET WELD.
- 18 DRILLED SHAFT - SEE SCHEDULE FOR INFORMATION.
- 19 PROVIDE TURNBUCKLE AT LOW/HIGH END OF EACH ROD (TYP.)



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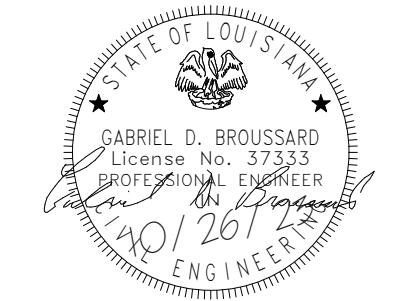
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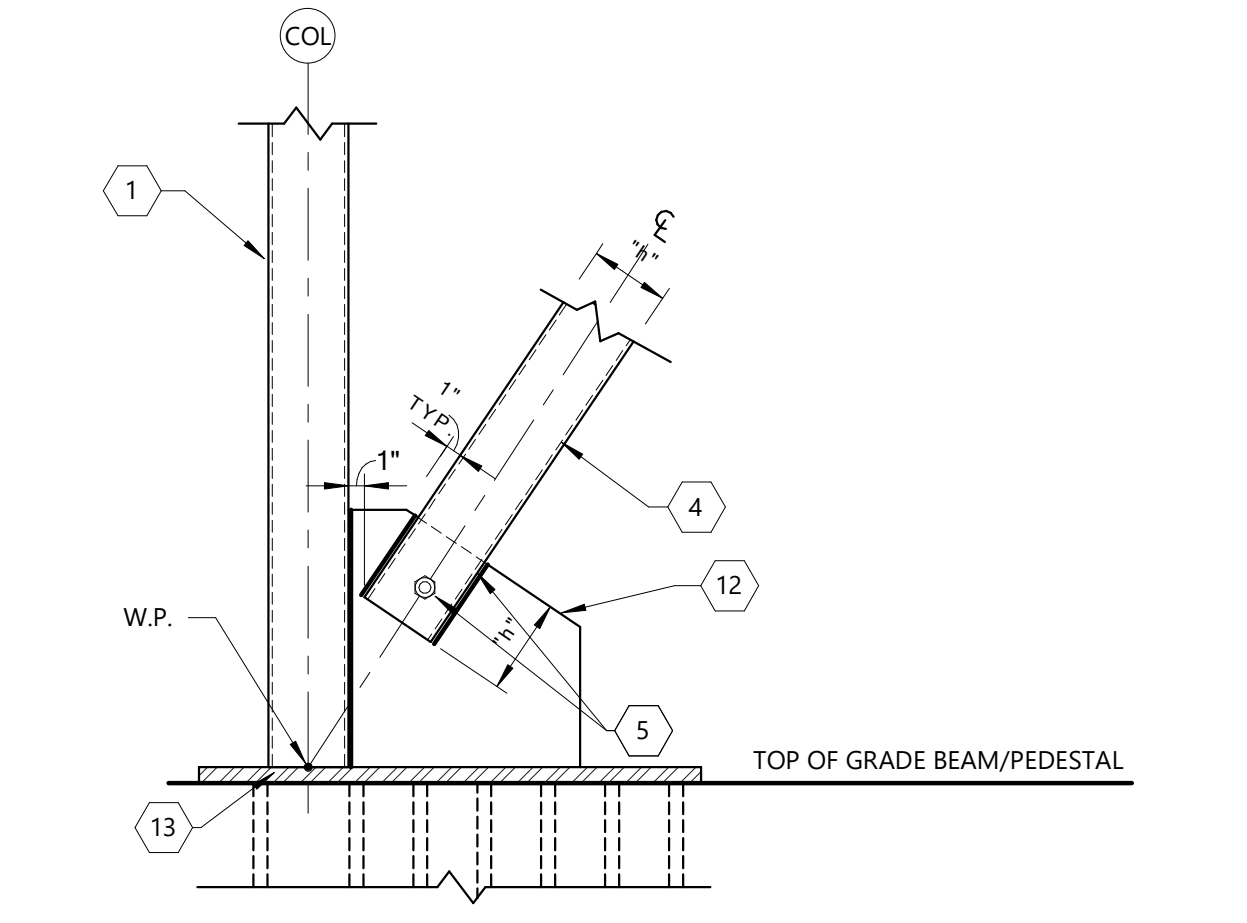


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Sht Description: BRACED FRAME DETAILS

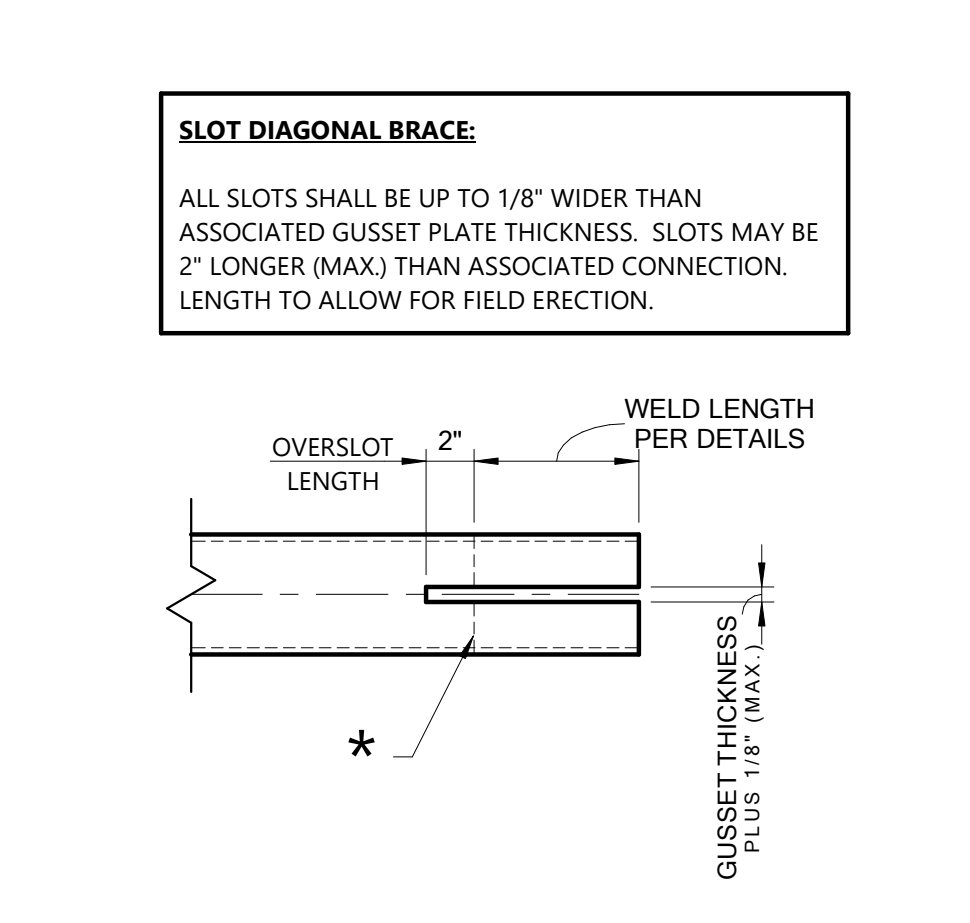
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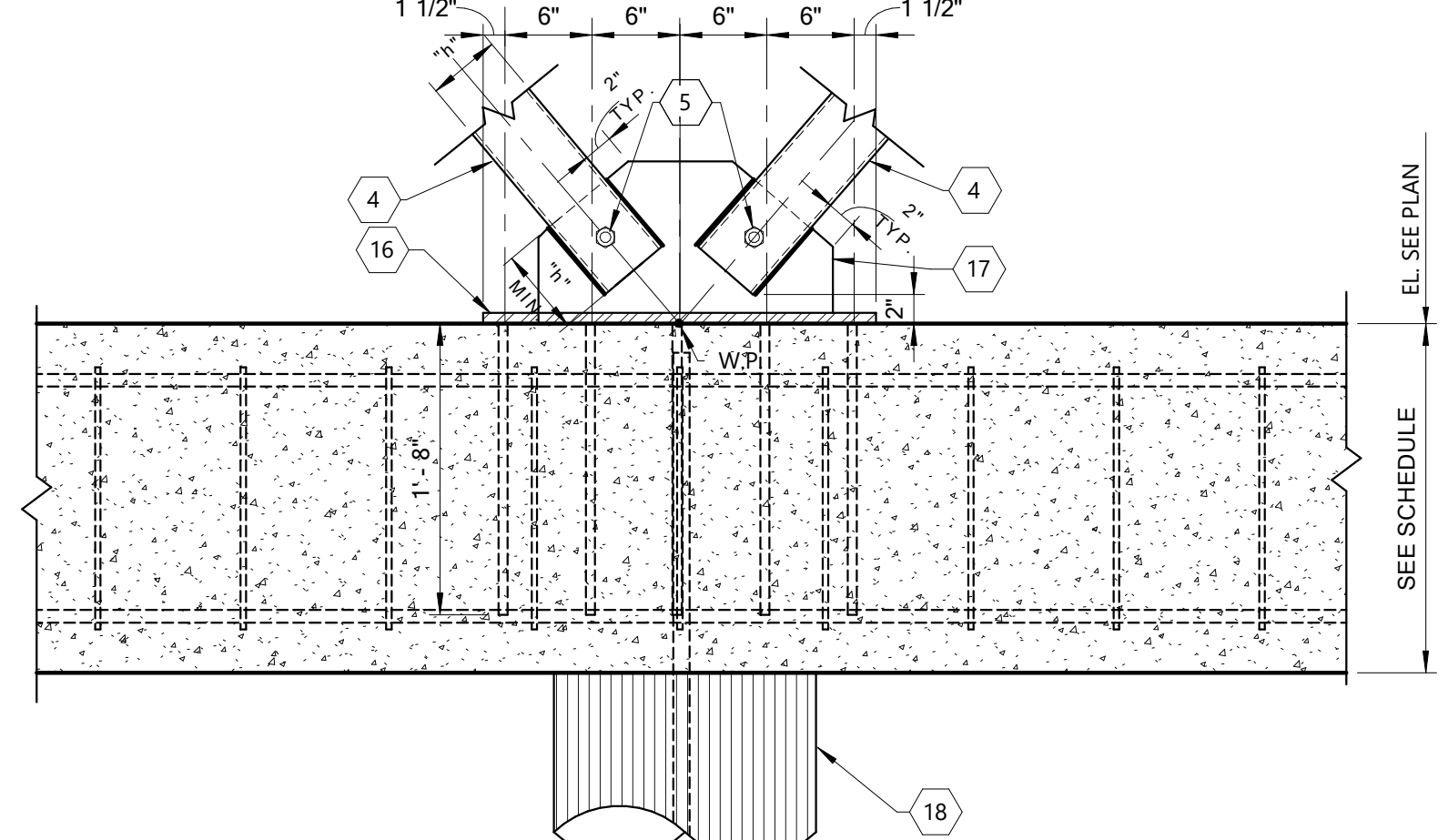
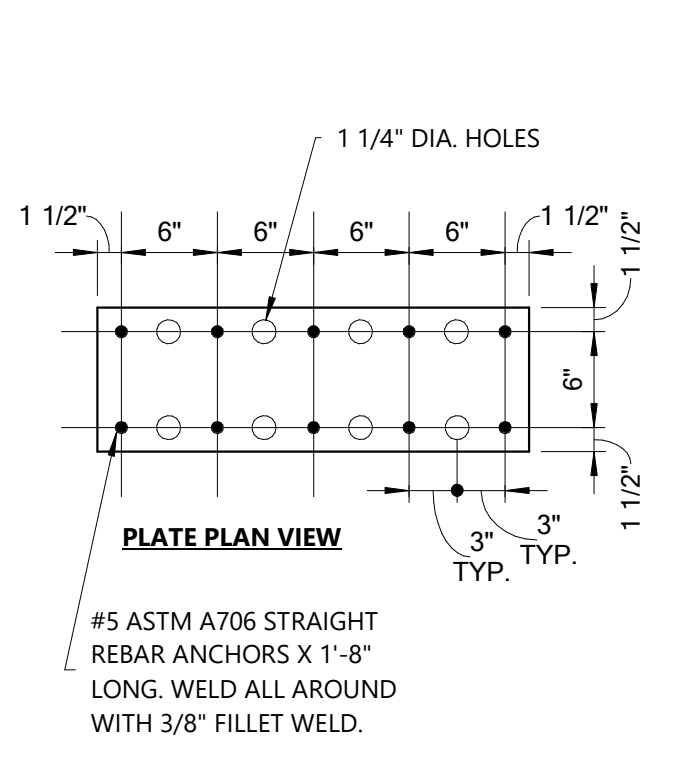
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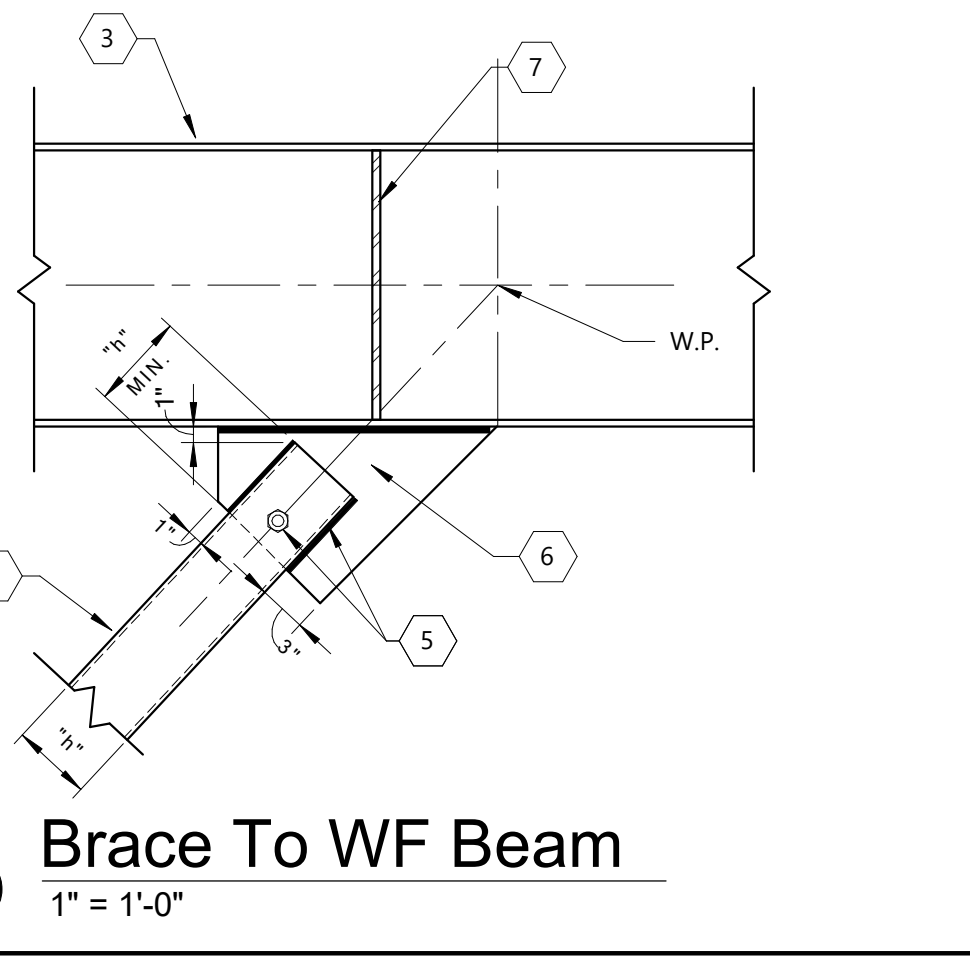
12 Brace Detail At Embed Base Plate
1" = 1'-0"



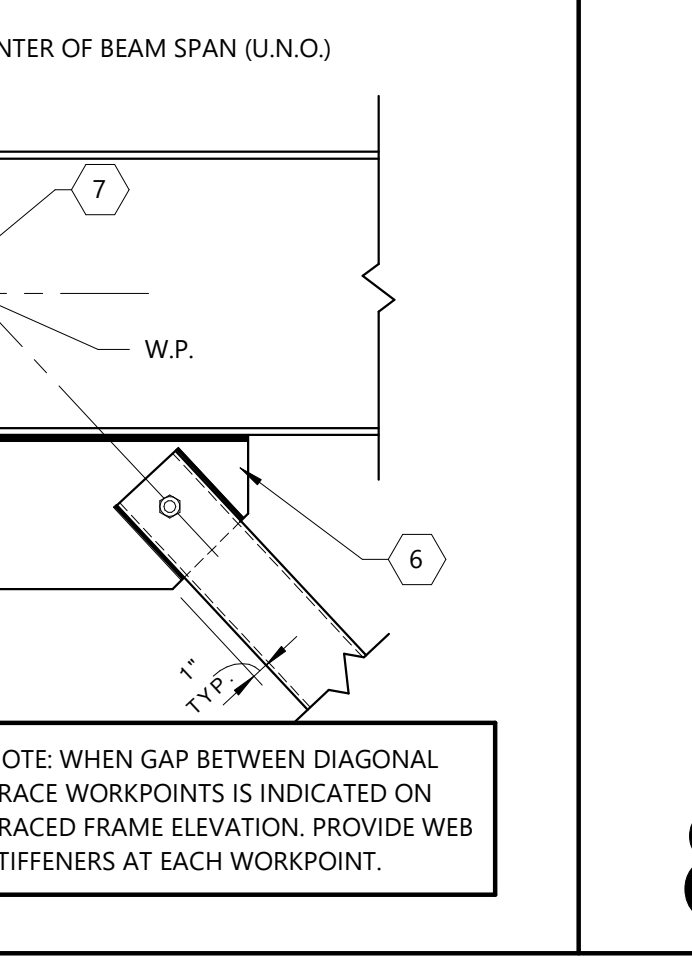
11 Diagonal Brace Slot Detail
1 1/2" = 1'-0"



9 Brace Detail
1" = 1'-0"

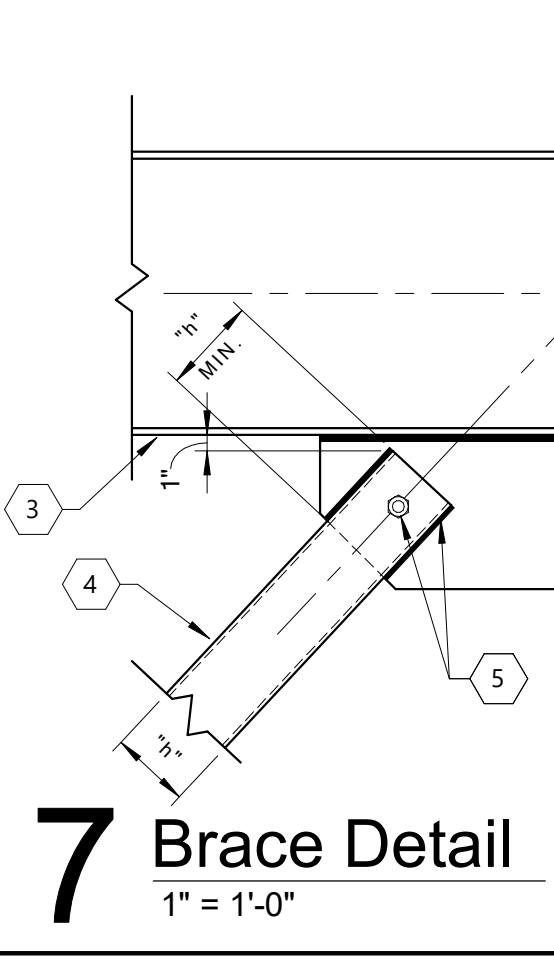


8 Brace To WF Beam
1" = 1'-0"

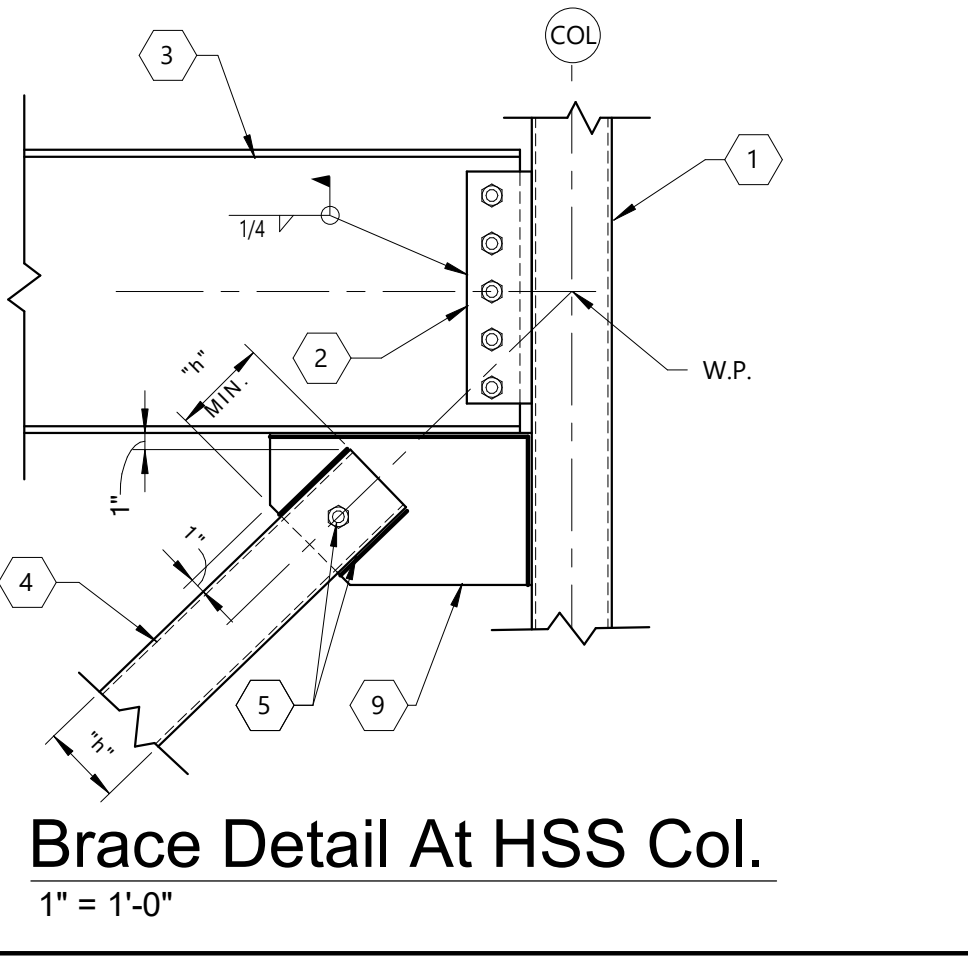


7 Brace Detail
1" = 1'-0"

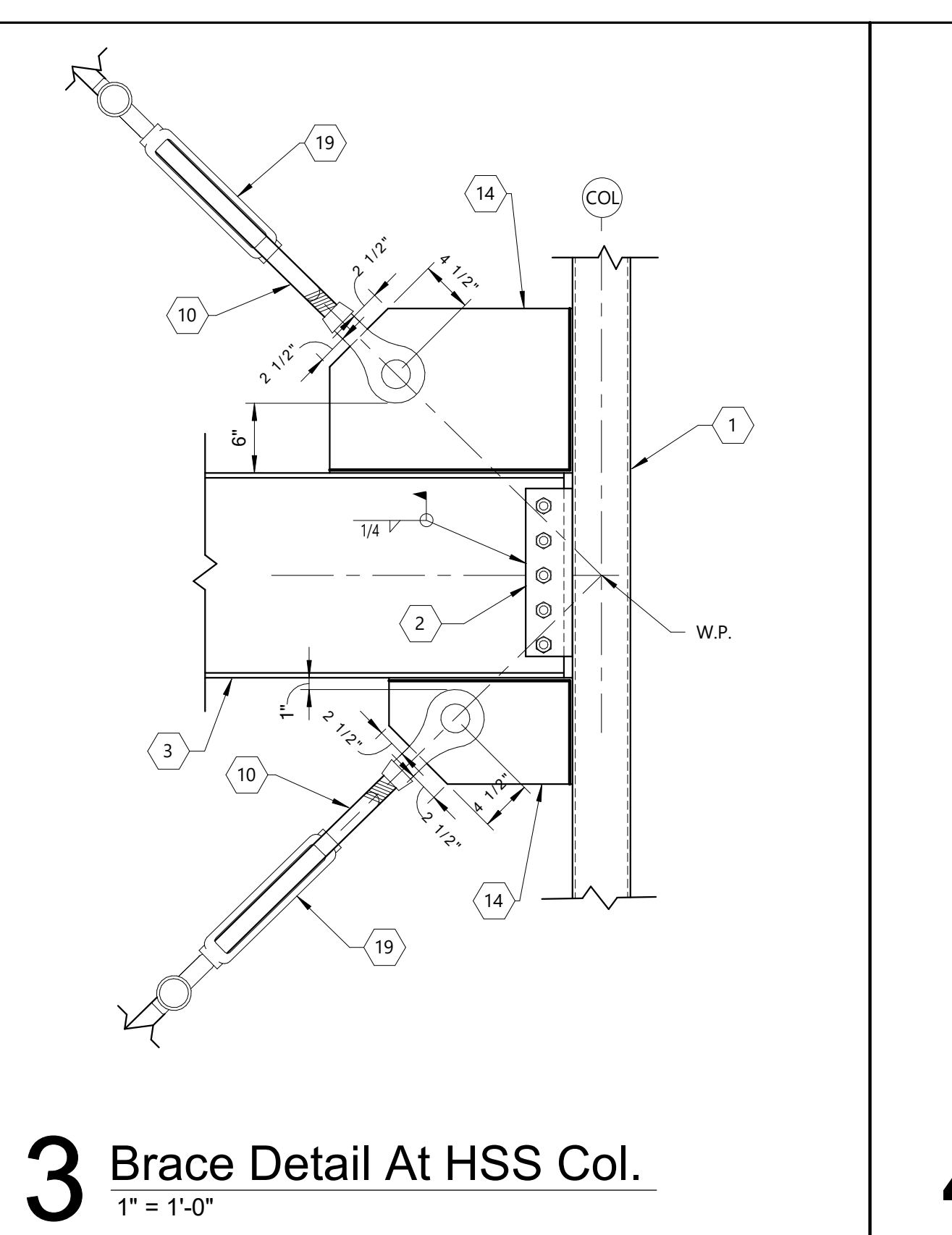
NOTE: WHEN GAP BETWEEN DIAGONAL BRACE WORKPOINTS IS INDICATED ON BRACED FRAME ELEVATION, PROVIDE WEB STIFFENERS AT EACH WORKPOINT.



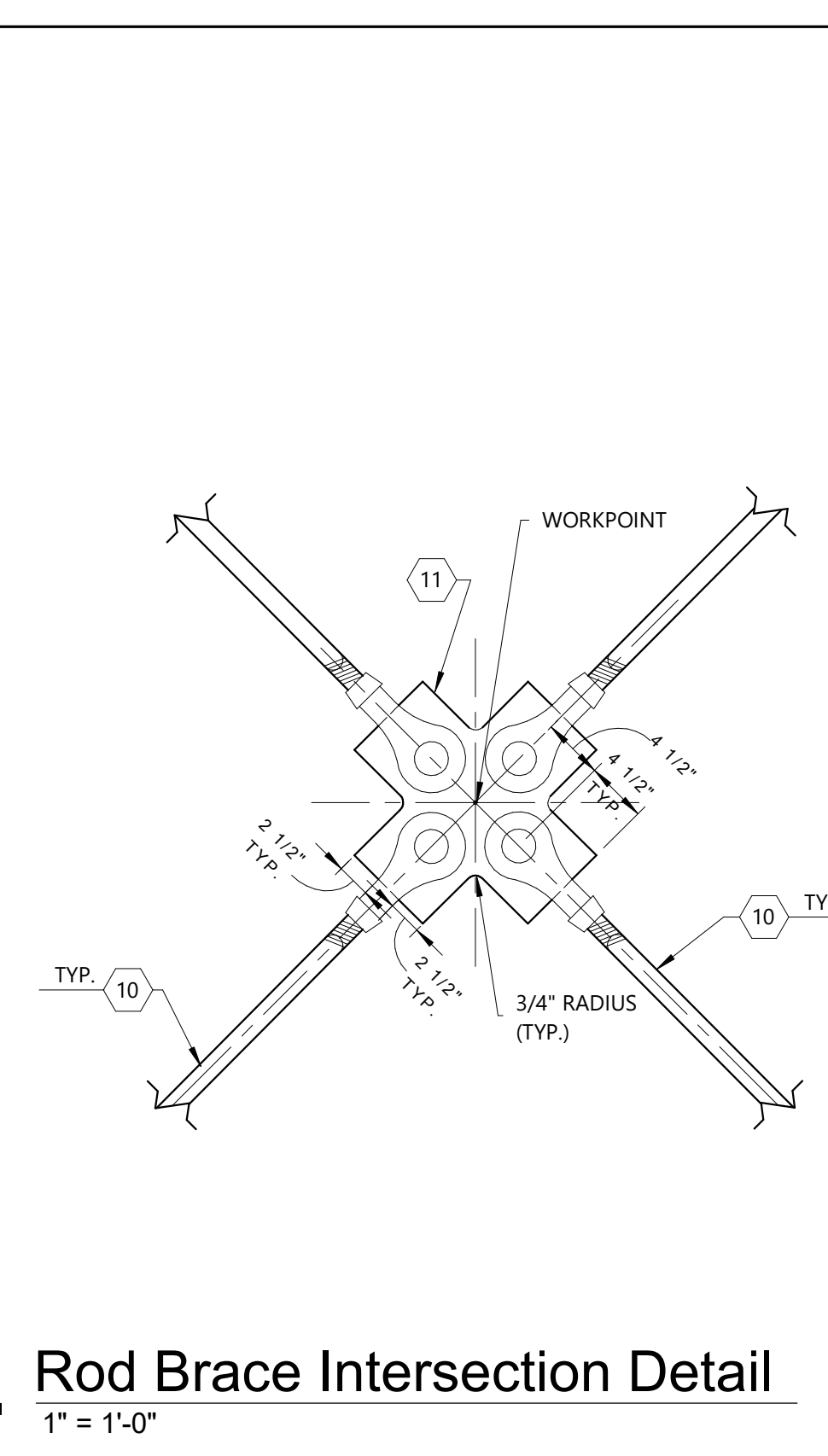
6 Brace Detail At HSS Col.
1" = 1'-0"



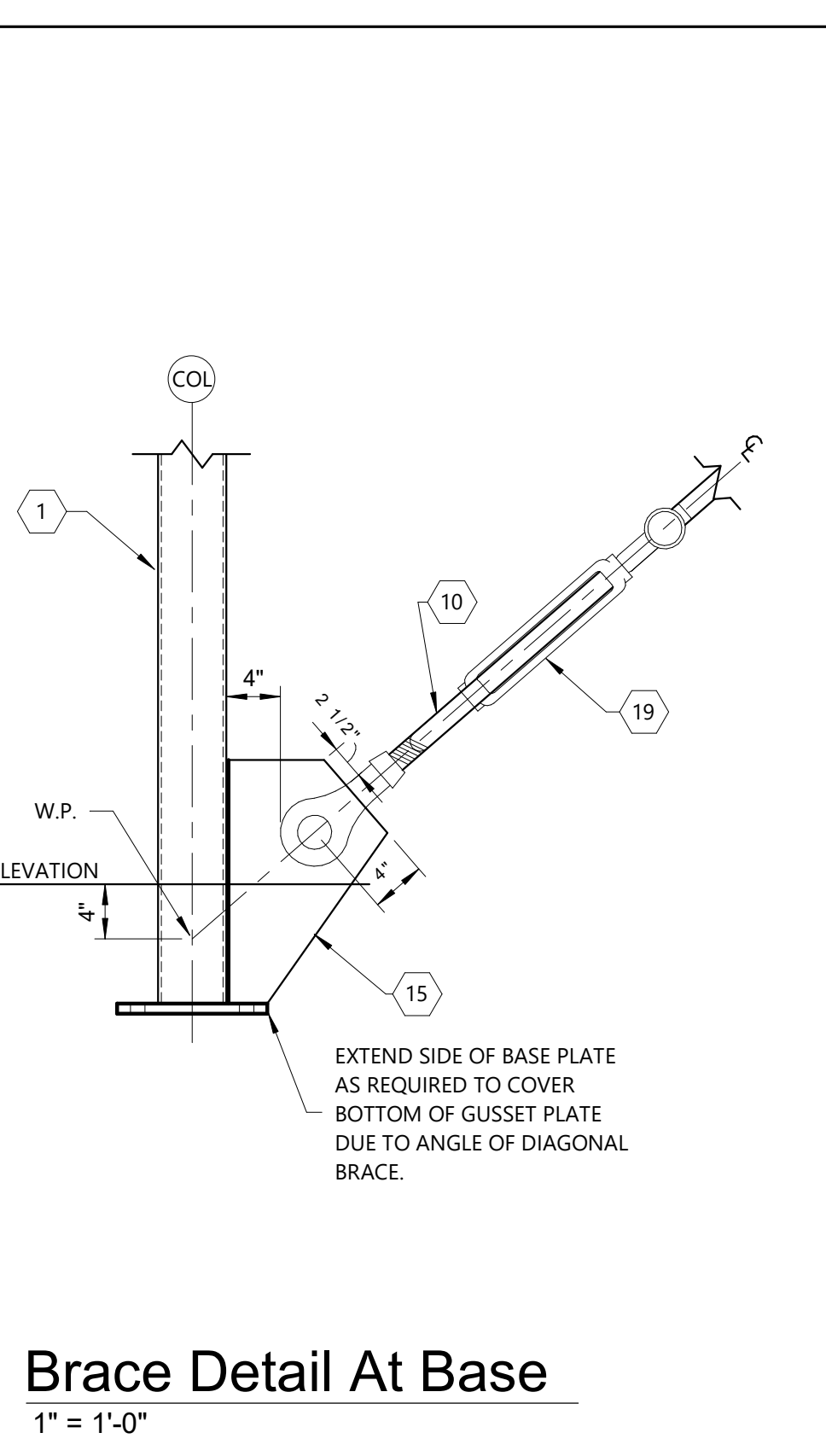
5 Brace Detail At HSS Col.
1" = 1'-0"



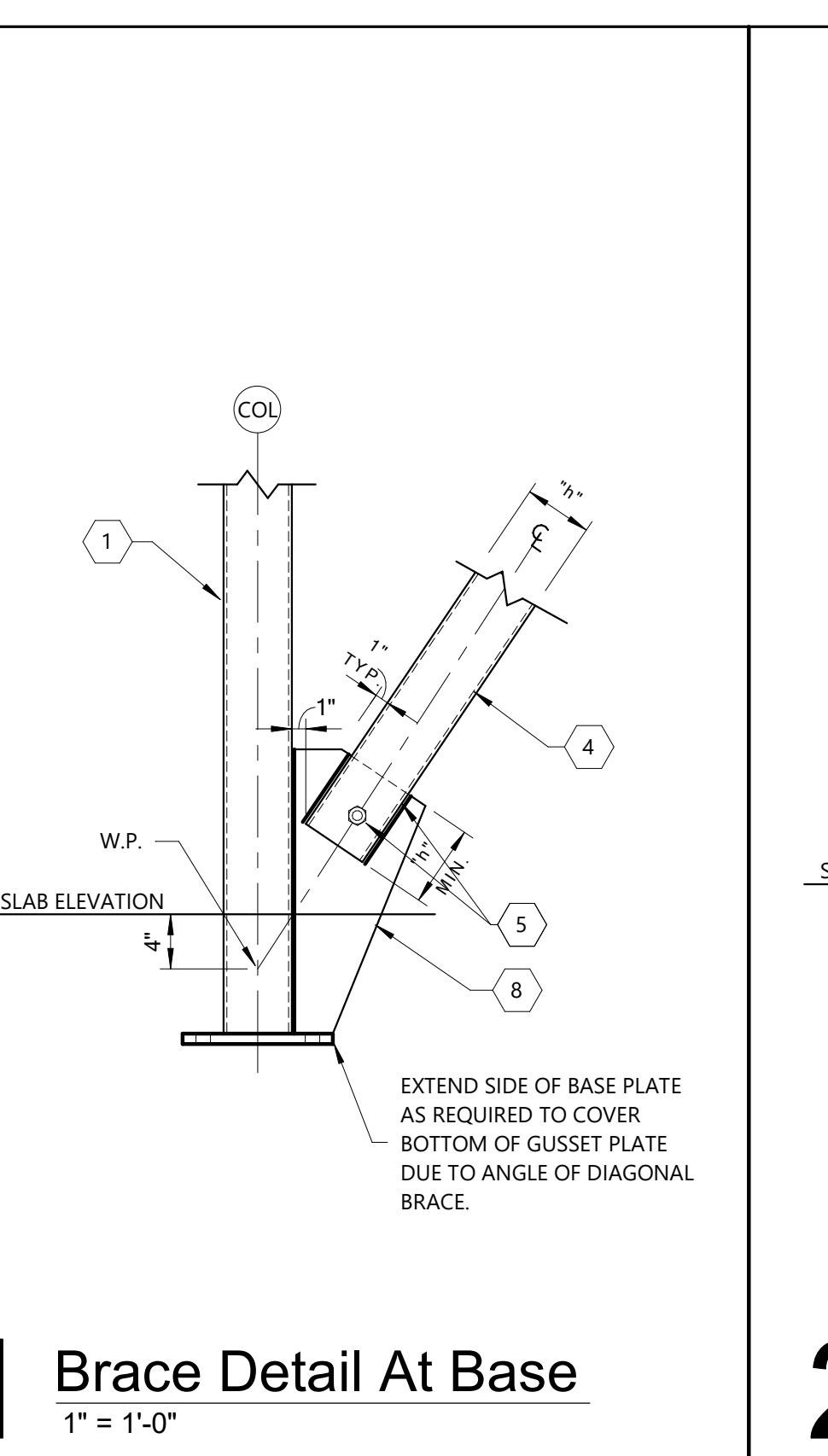
3 Brace Detail At HSS Col.
1" = 1'-0"



4 Rod Brace Intersection Detail
1" = 1'-0"



2 Brace Detail At Base
1" = 1'-0"



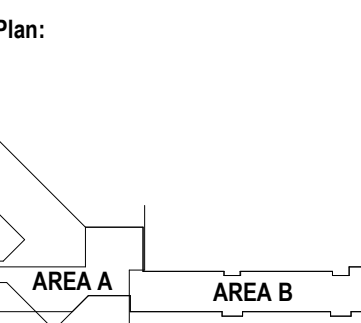
1 Brace Detail At Base
1" = 1'-0"



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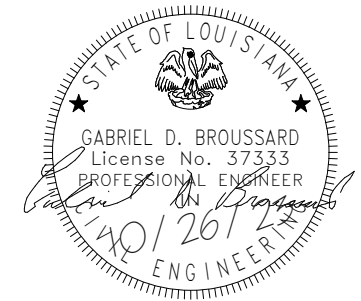
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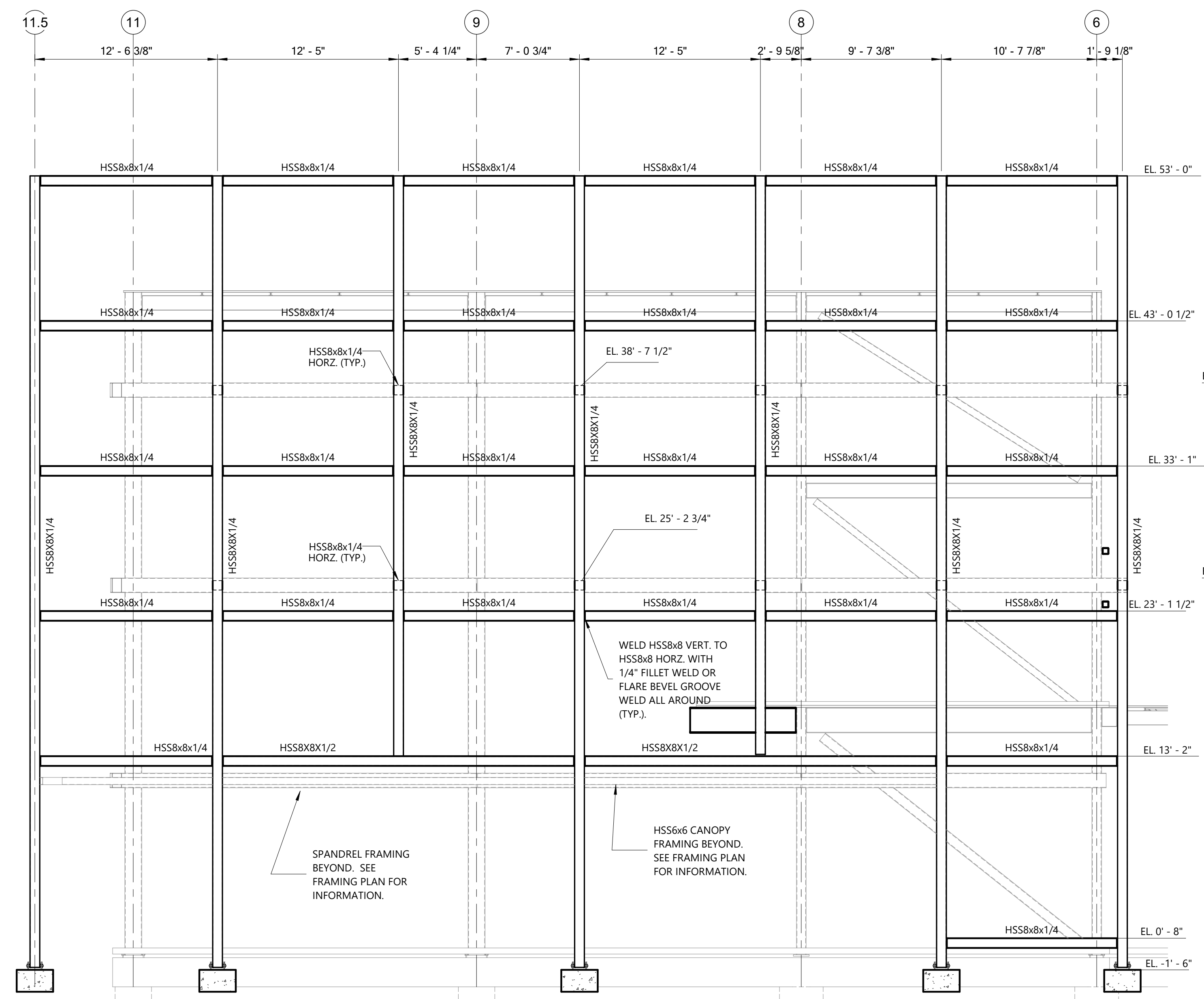
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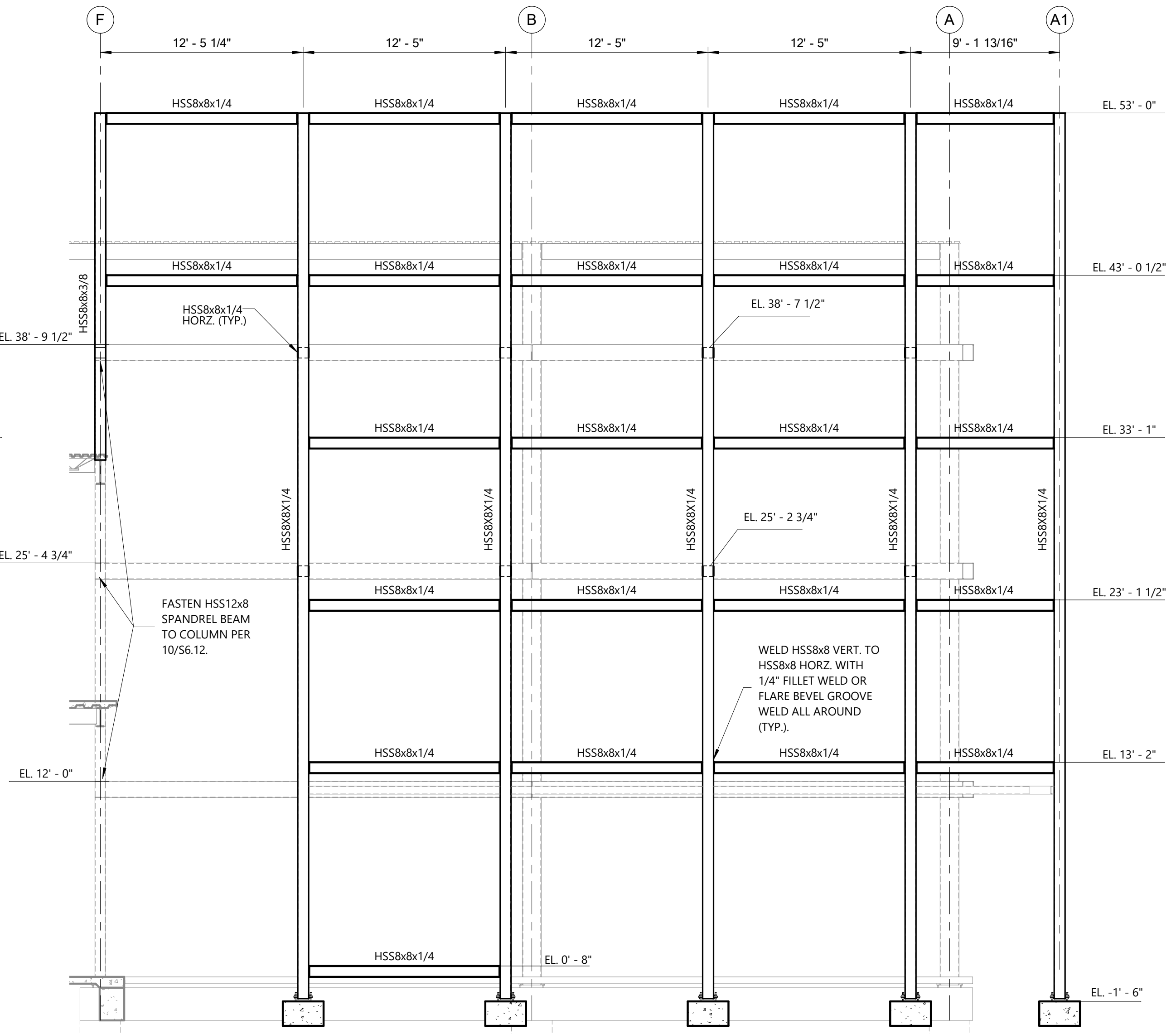
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 Sht Description:
 SCREEN WALL ELEVATIONS

North
S4.17

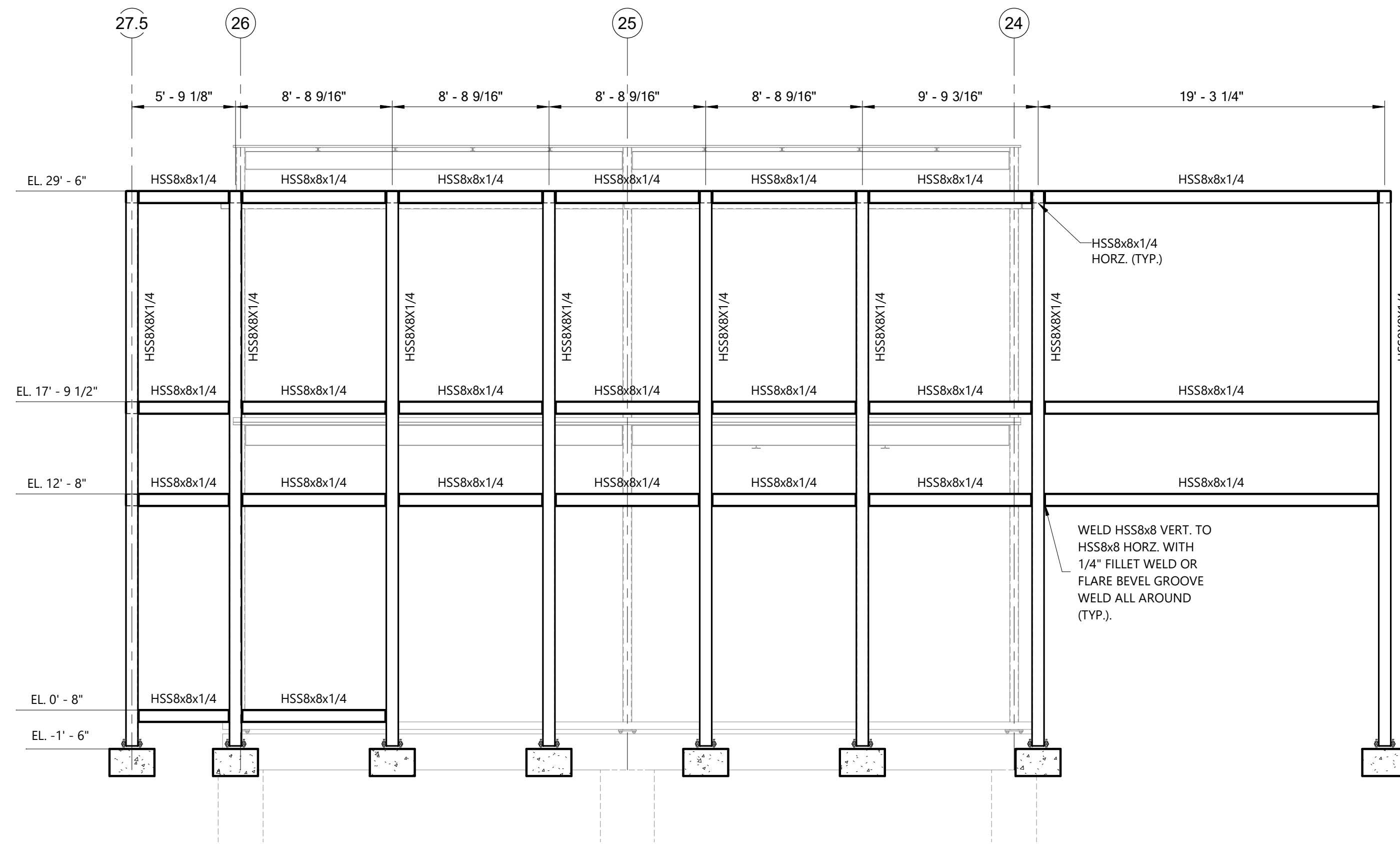
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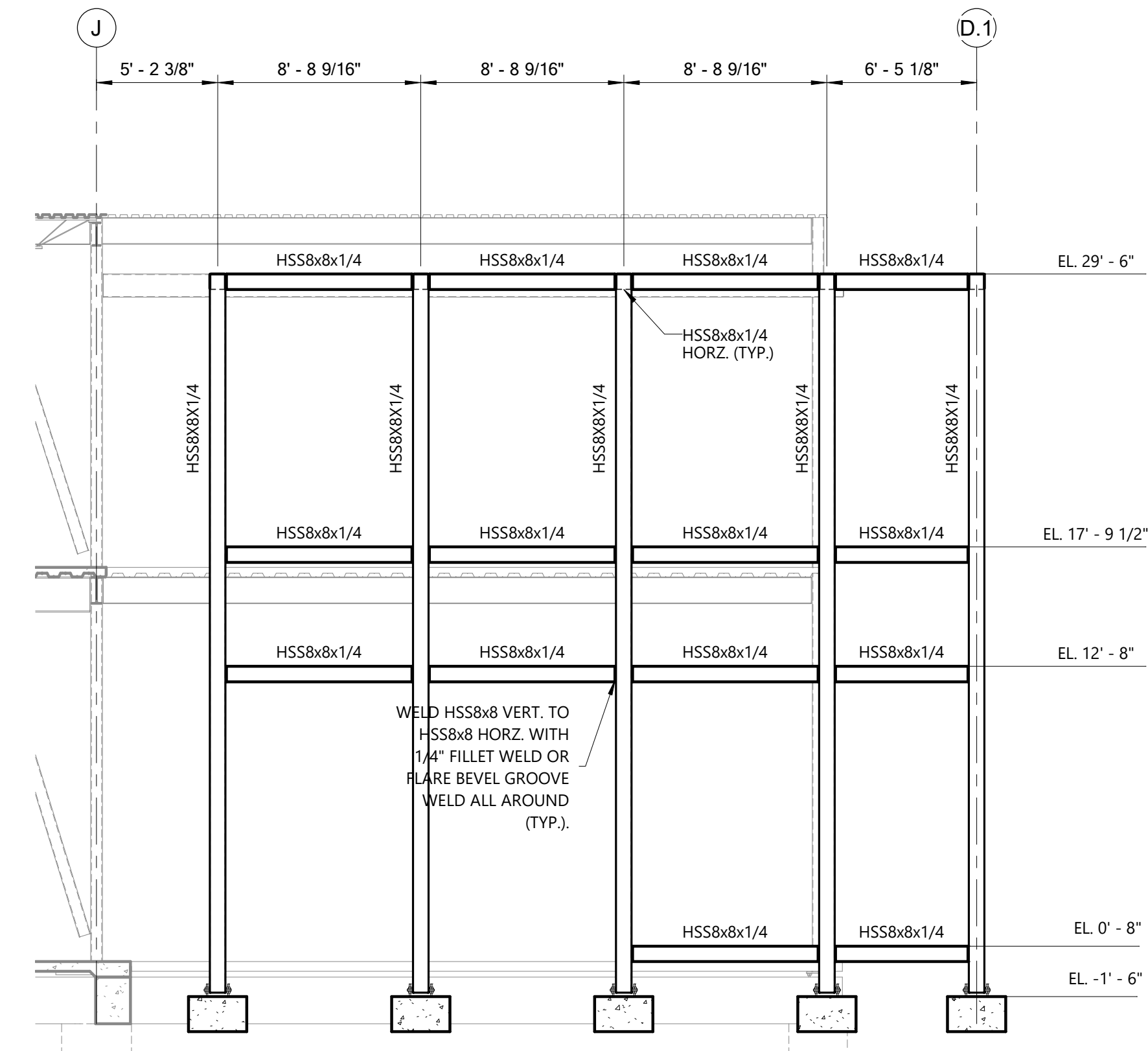
1 Screen Wall Framing Elevation Along Line A1
 3/16" = 1'-0"



2 Screen Wall Framing Elevation Along Line 11.5
 3/16" = 1'-0"



1 Screen Wall Framing Elevation Along Line D.1
3/16" = 1'-0"



2 Screen Wall Framing Elevation Along Line 27.5
3/16" = 1'-0"

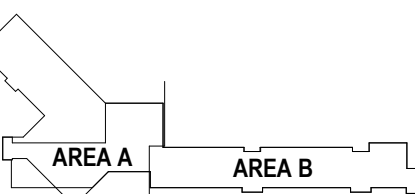


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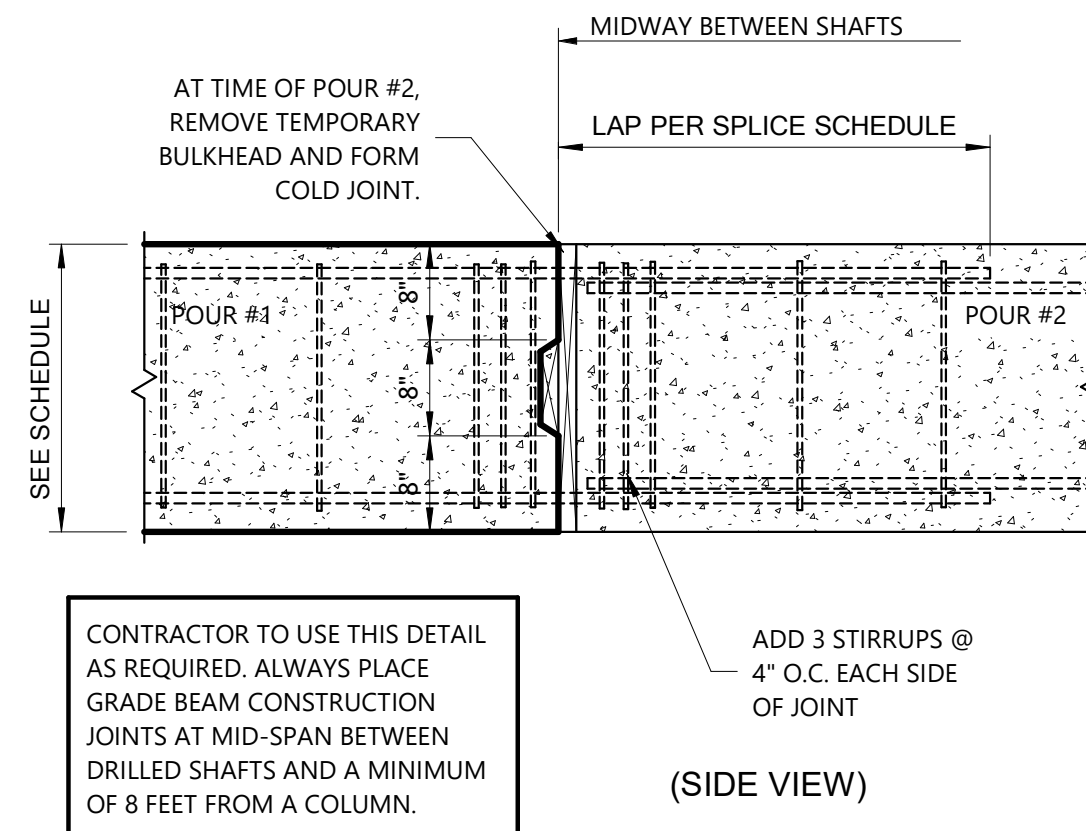
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SCREEN WALL ELEVATIONS

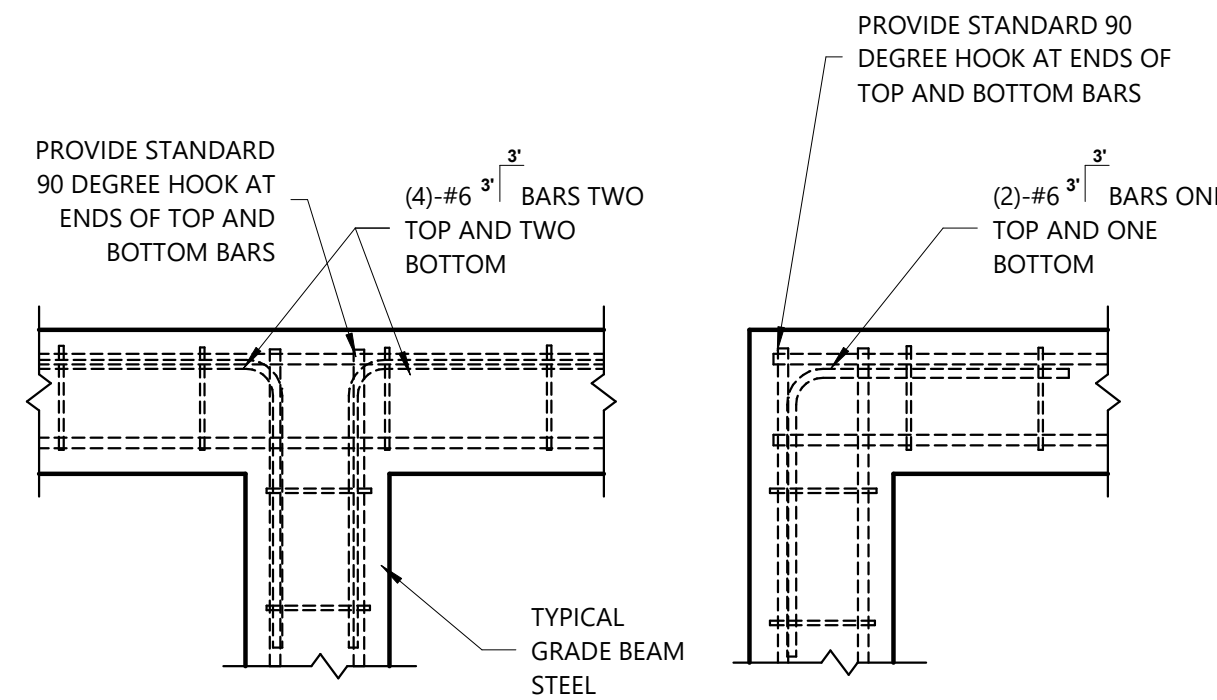
S4.18

North

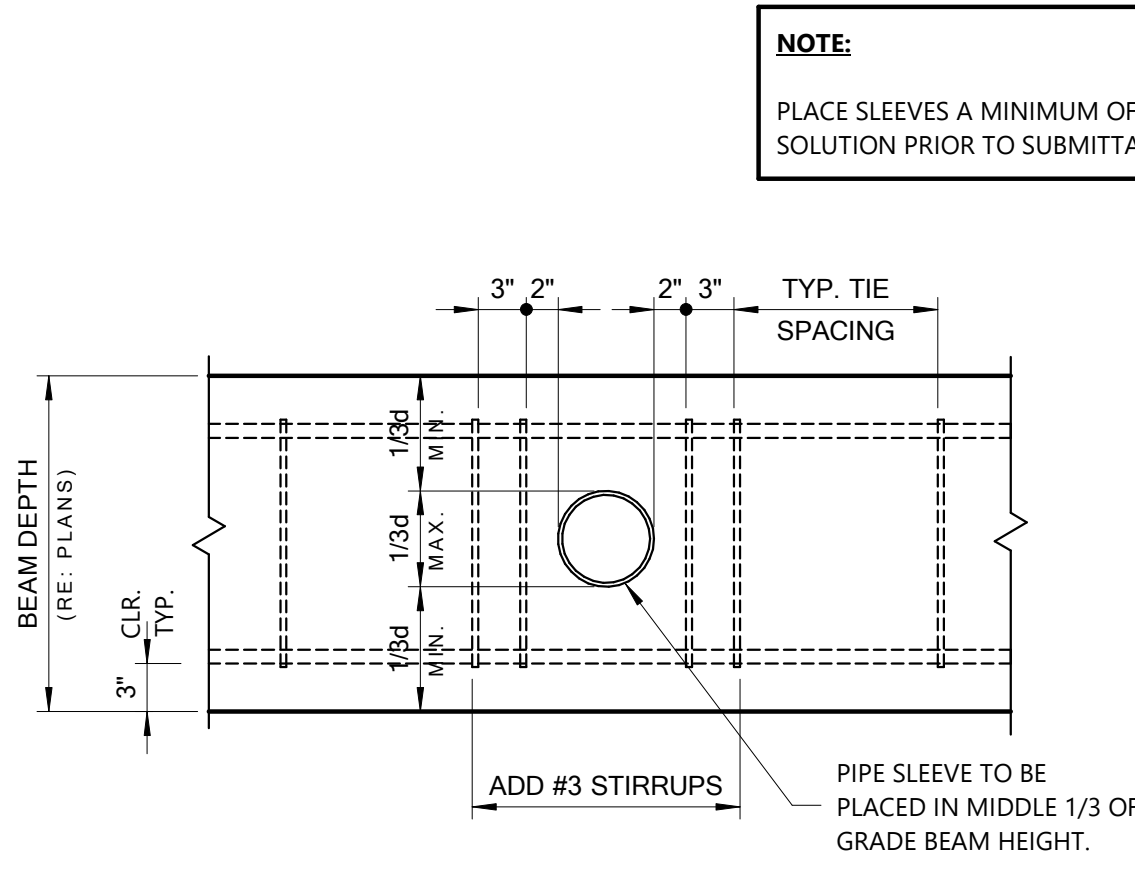
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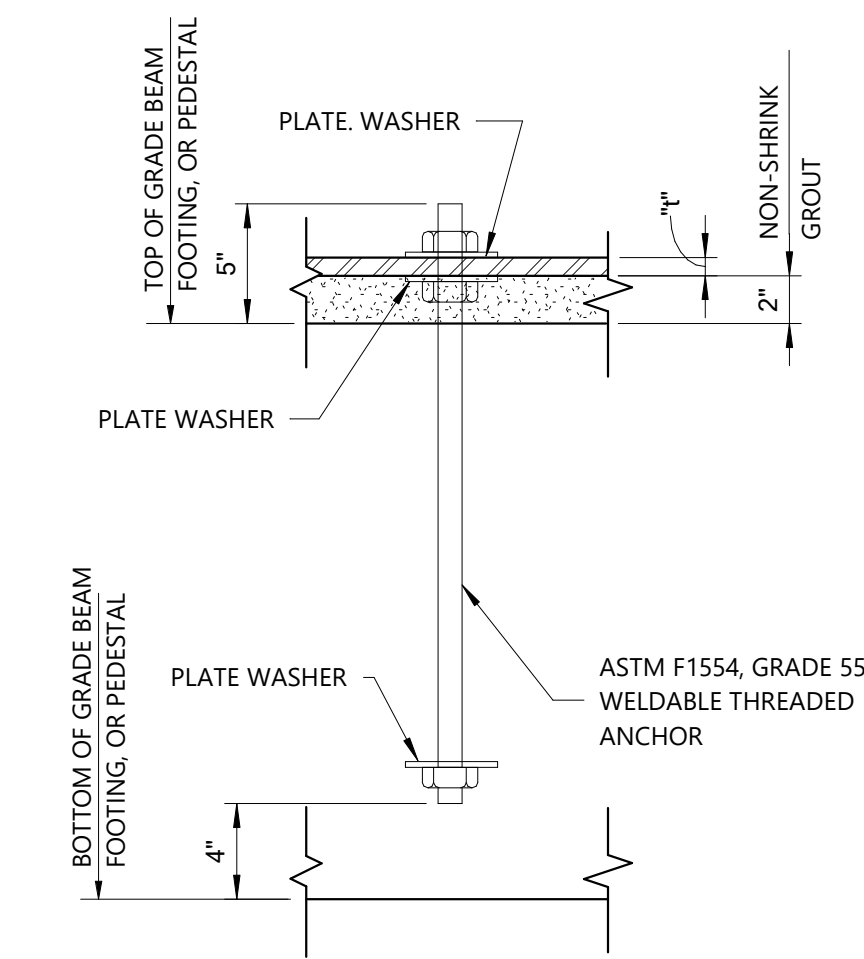
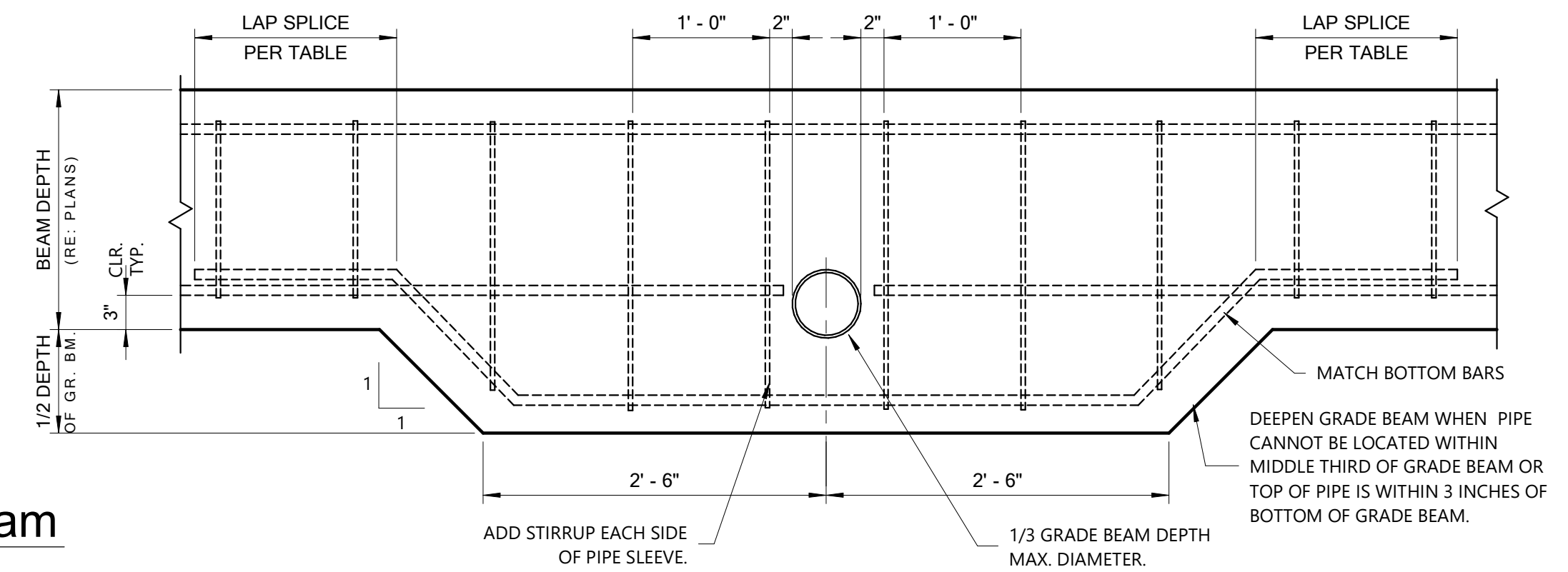
1 Grade Beam Construction Joint
3/4" = 1'-0"



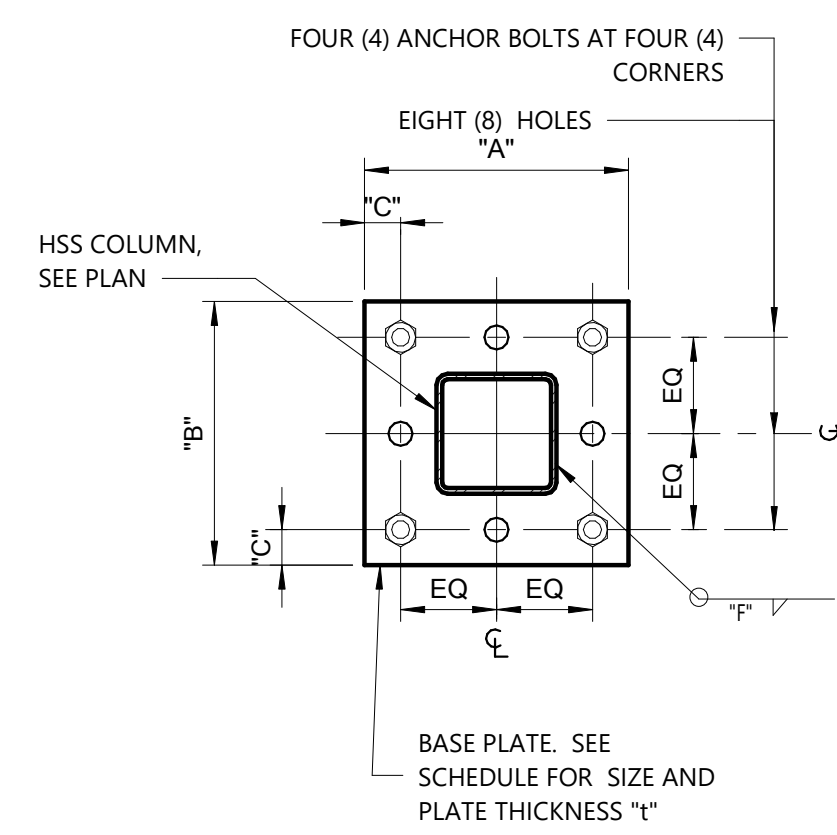
2 Grade Beam Intersection Details
3/4" = 1'-0"



3 Typical Sleeve Detail in Grade Beam
1" = 1'-0"



4 Typical Anchor Bolt
1 1/2" = 1'-0"



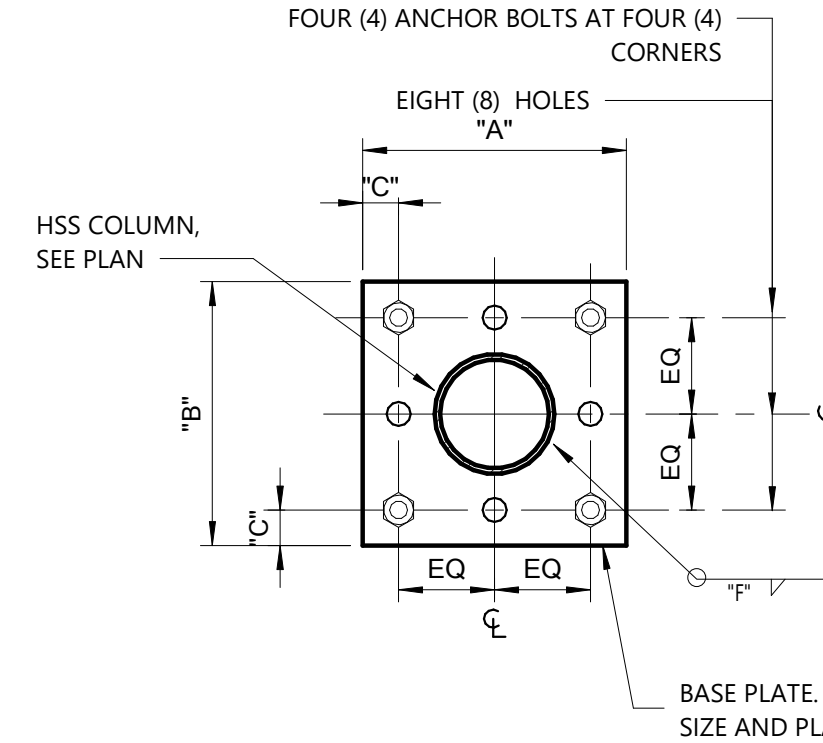
5 Column Base Plate Detail
1 1/2" = 1'-0"

HSS COL. SIZE	"t"	"A"	"B"	"C"	BOLT DIA.	BASE PLATE HOLE DIA.	"F"	WASHER SIZE	WASHER HOLE DIA.
HSS 5x5	1 1/4"	11"	11"	1 1/2"	3/4"	15/16"	5/16	2"x1/4"	13/16"
HSS 6x6	1 1/4"	12"	12"	1 1/2"	3/4"	15/16"	5/16	2"x1/4"	13/16"
HSS 8x8	1 1/4"	14"	14"	1 1/2"	3/4"	15/16"	5/16	2"x1/4"	13/16"
HSS 14x14	1 1/4"	20"	20"	1 1/2"	3/4"	15/16"	5/16	2"x1/4"	13/16"

EXTERIOR COLUMN PRIMER:
THE BELOW-GRADE PORTION OF ALL EXTERIOR COLUMNS (INCLUDING ALL SURFACES OF SHOP-WELDED BASE PLATES PRIOR TO COLUMN ERECTION) AND EXTERIOR DIAGONAL BRACES (INCLUDING GUSSET PLATES) SHALL BE FIELD COATED WITH ONE COAT OF TNEPEC SERIES 46H-413 TNEPE-TAR (OR APPROVED EQUAL POLYAMIDE EPOXY COAL TAR) 16-20 DRY MILS IN THICKNESS. SHOP PRIME COLUMN OR BRACE USING ONE COAT OF TNEPEC SERIES 66 HB EXPOXOLINE OR TNEPEC SERIES 161 FASCURE 4.0 TO 6.0 DRY MILS IN THICKNESS (OR APPROVED EQUAL). VERIFY PRIMER IS COMPATIBLE WITH HIGH-PERFORMANCE COATING SPECIFIED BY ARCHITECT. PROVIDE TEST PATCH TO VERIFY COMPATIBILITY. IF THE PRIMER IS EXTERIOR EXPOSED FOR MORE THAN 60 DAYS, IT SHALL BE BRUSH BLASTED WITH A FINE ABRASIVE TO DEGLOSS. COMPLY WITH ALL MANUFACTURER REQUIREMENTS ON PRODUCT DATA SHEET. SPC-6 COMMERCIAL BLAST CLEANING SHALL BE USED FOR SURFACE PREPARATION.

EXTERIOR COLUMN ANCHORAGE GALVANIZE:
ALL ANCHOR BOLTS, NUTS, AND WASHERS AT EXTERIOR COLUMN SHALL BE HOT-DIPPED GALVANIZED.

NOTE:
ALL BASE PLATES SHALL BE GRADE 50 MATERIAL.

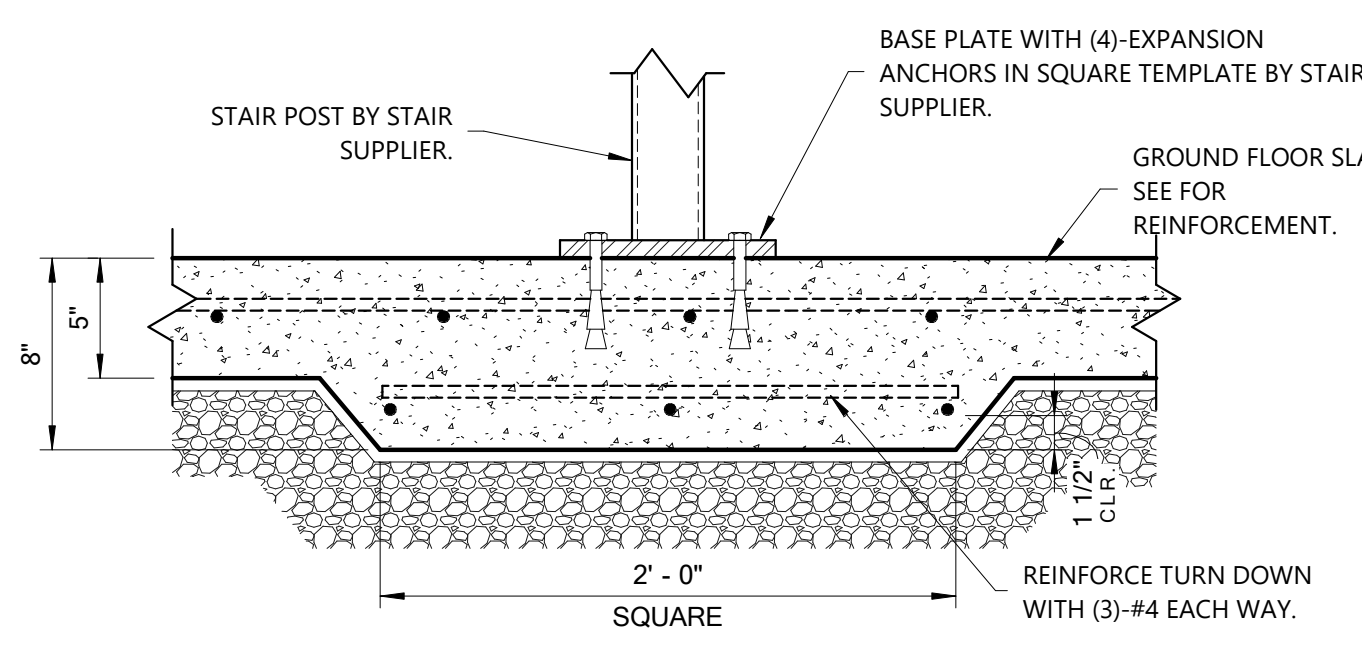


6 Round HSS Column Base Plate Detail
1 1/2" = 1'-0"

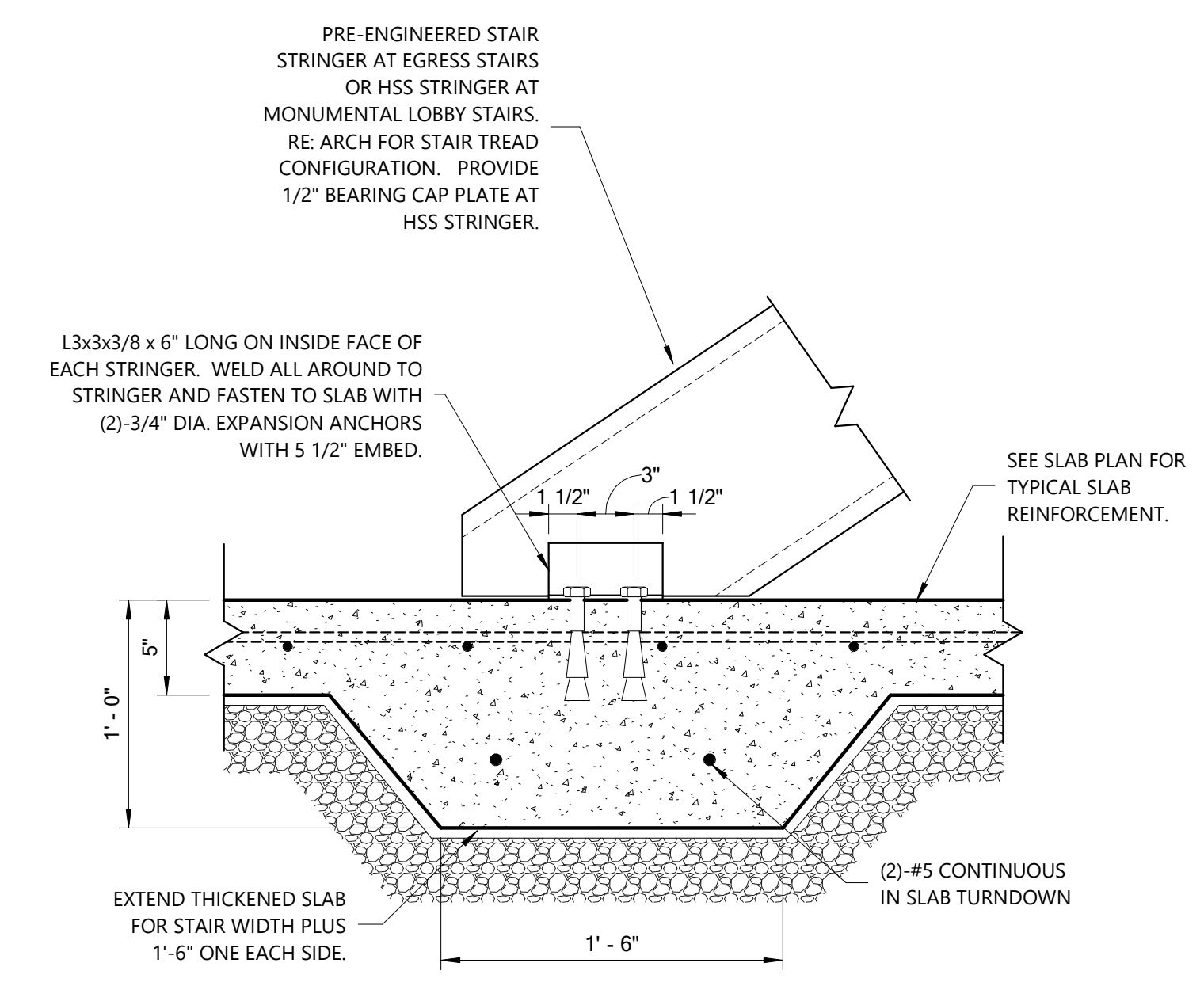
HSS COL. SIZE	"t"	"A"	"B"	"C"	BOLT DIA.	BASE PLATE HOLE DIA.	"F"	WASHER SIZE	WASHER HOLE DIA.
HSS7.00	1 1/4"	13"	13"	1 1/2"	3/4"	15/16"	5/16	2"x1/4"	13/16"
HSS8.625	1 1/4"	14 5/8"	14 5/8"	1 1/2"	3/4"	15/16"	5/16	2"x1/4"	13/16"

NOTE:
ALL BASE PLATES SHALL BE GRADE 50 MATERIAL.

NOTE:
THIS DETAIL ONLY APPLIES FOR STAIR POSTS AT PRE-ENGINEERED EGRESS STAIRS. BASE DETAIL FOR STAIR POST AT MONUMENTAL LOBBY STAIRS SHALL BE SAME AS BUILDING COLUMNS.

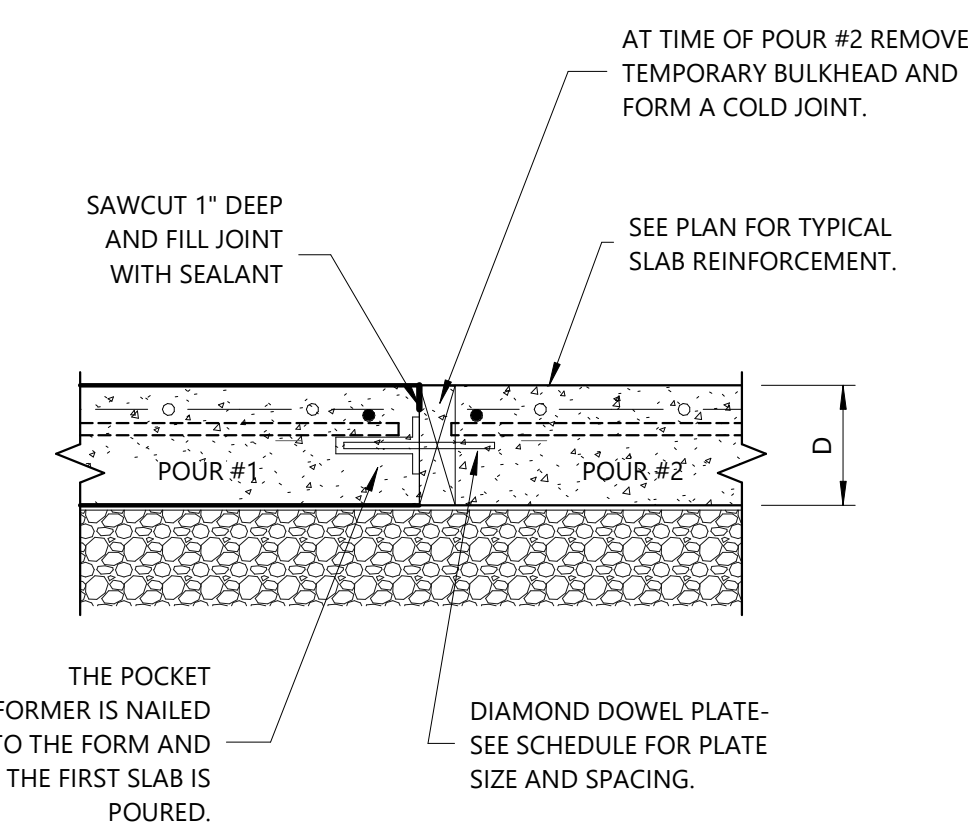


7 Egress Stair Post To Slab On Grade
1 1/2" = 1'-0"



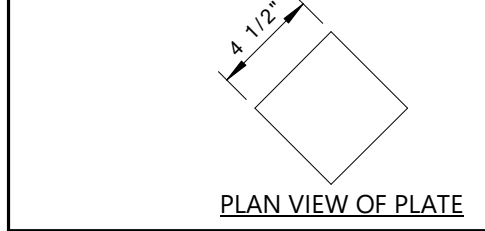
8 Stair Stringer To Slab On Grade
1 1/2" = 1'-0"

NOTE:
SEE SLAB PLAN FOR REQUIRED SLAB CONSTRUCTION JOINT LOCATIONS.



9 Slab Construction Joint
1 1/2" = 1'-0"

D (IN.)	PLATE DIMENSION (IN.)	PLATE SPACING (IN.)
5 TO 6	1/4"x4 1/2"x4 1/2"	18
7 TO 8	3/8"x4 1/2"x4 1/2"	18



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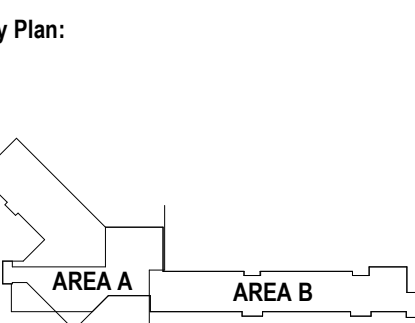
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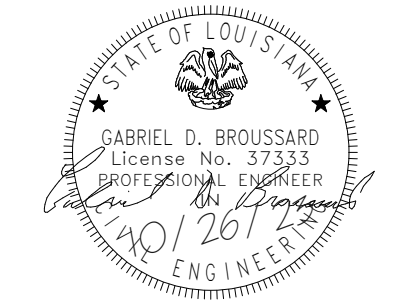


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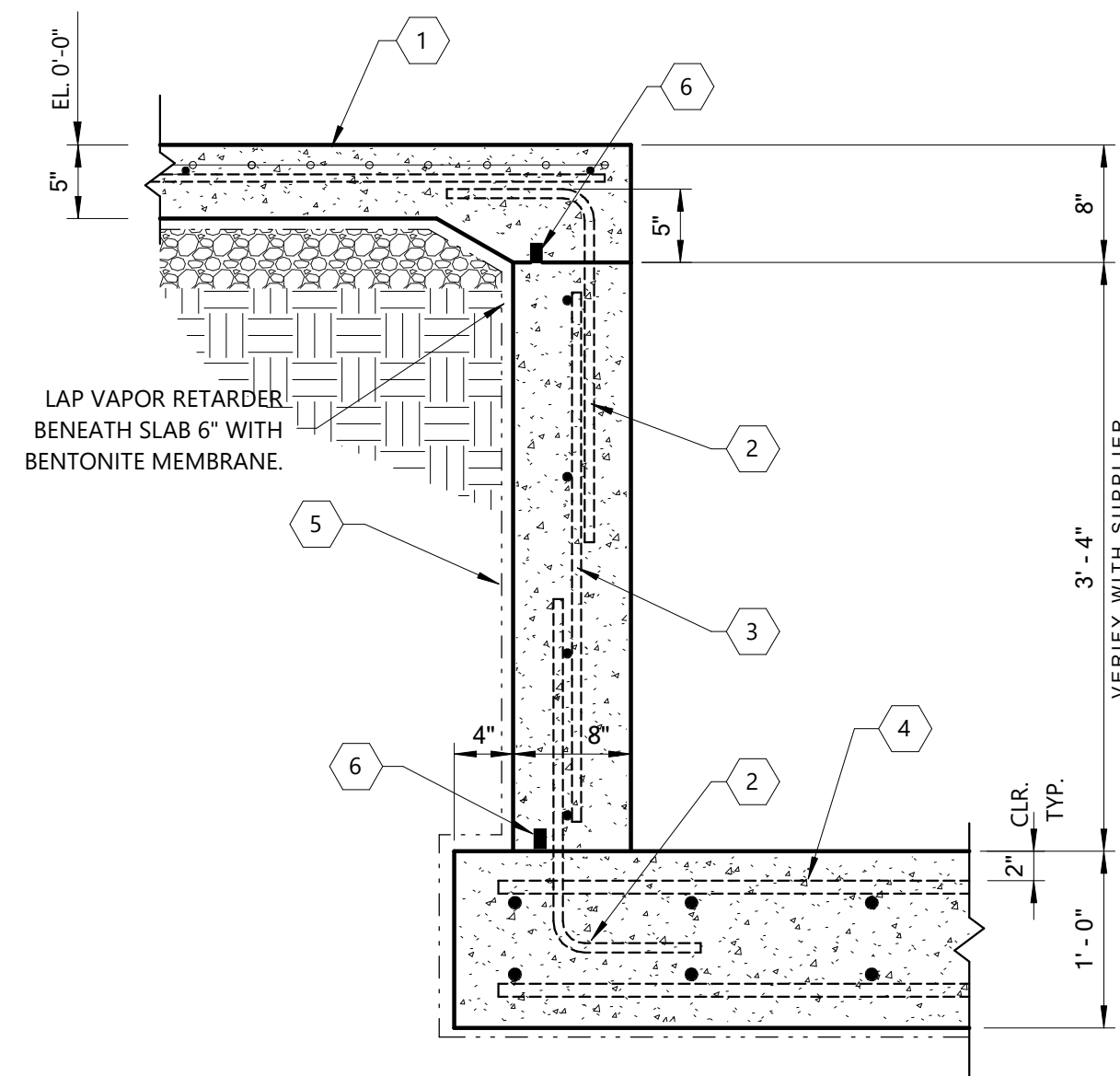
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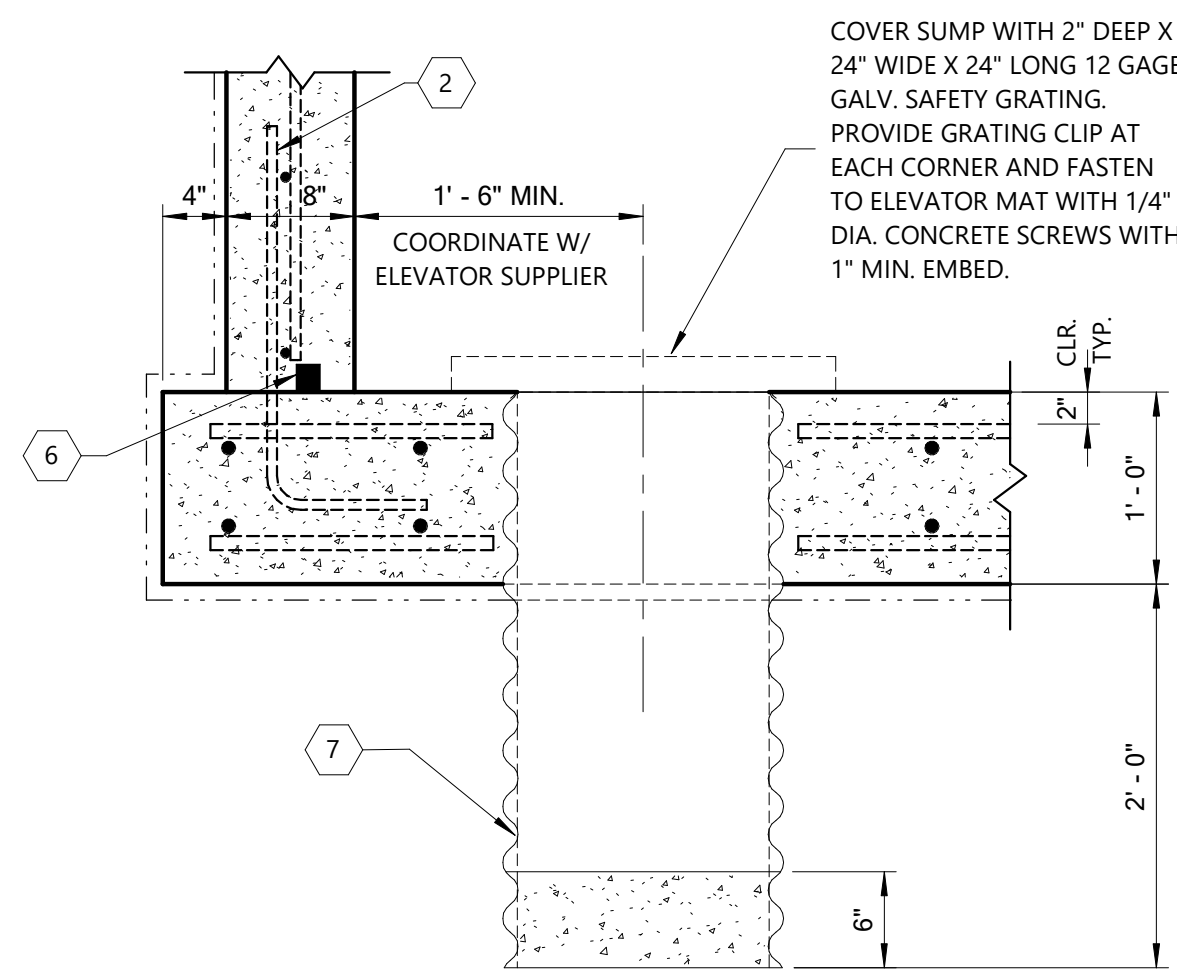


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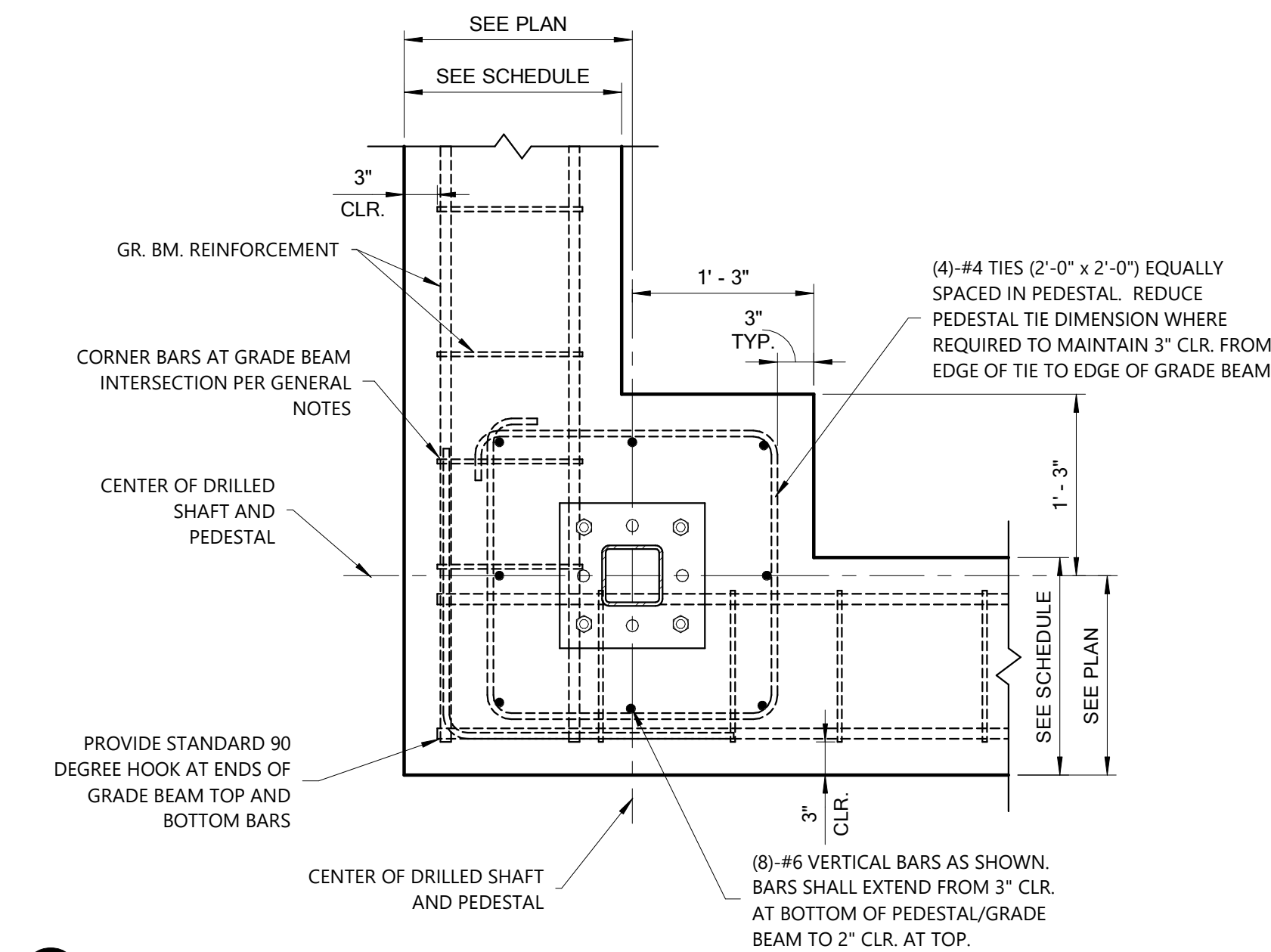
S5.10



1 Elevator Pit Detail
1" = 1'-0"



2 Sump Pit Detail
1" = 1'-0"



3 Typical Corner Pedestal Plan View
1" = 1'-0"

Keynote Legend

- 1 5" THICK CONCRETE SLAB. SEE SLAB PLAN FOR MORE INFORMATION.
- 2 #5 L-BAR DOWELS (a=12", b=24") AT TOP AND BOTTOM OF PIT WALLS. SPACE DOWELS AT SAME FREQUENCY OF PIT WALL VERTICAL BARS AND LAP WITH WALL BARS.
- 3 8" THICK CONCRETE WALL REINFORCED WITH #5 AT 12" O.C. EACH WAY. CENTER REINFORCEMENT IN WALL.
- 4 12" THICK CONCRETE MAT FOOTING REINFORCED WITH #6 AT 12" O.C. EACH WAY TOP AND BOTTOM.
- 5 BENTONITE WATERPROOFING MEMBRANE AROUND WALLS AND FOUNDATION OF ELEVATOR PIT. SUBMIT INFORMATION ON BENTONITE TO ARCHITECT FOR APPROVAL. PROVIDE LAPS AND TRANSITIONS PER MANUFACTURER'S RECOMMENDATIONS.
- 6 CONTINUOUS WATERSTOP.
- 7 18" DIAMETER ULTRA RIB CORRUGATED SEWER PIPE - ASTM F794. VERIFY SIZE AND LOCATION WITH ELEVATOR SUPPLIER.

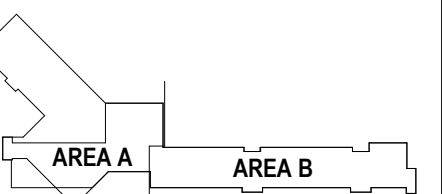


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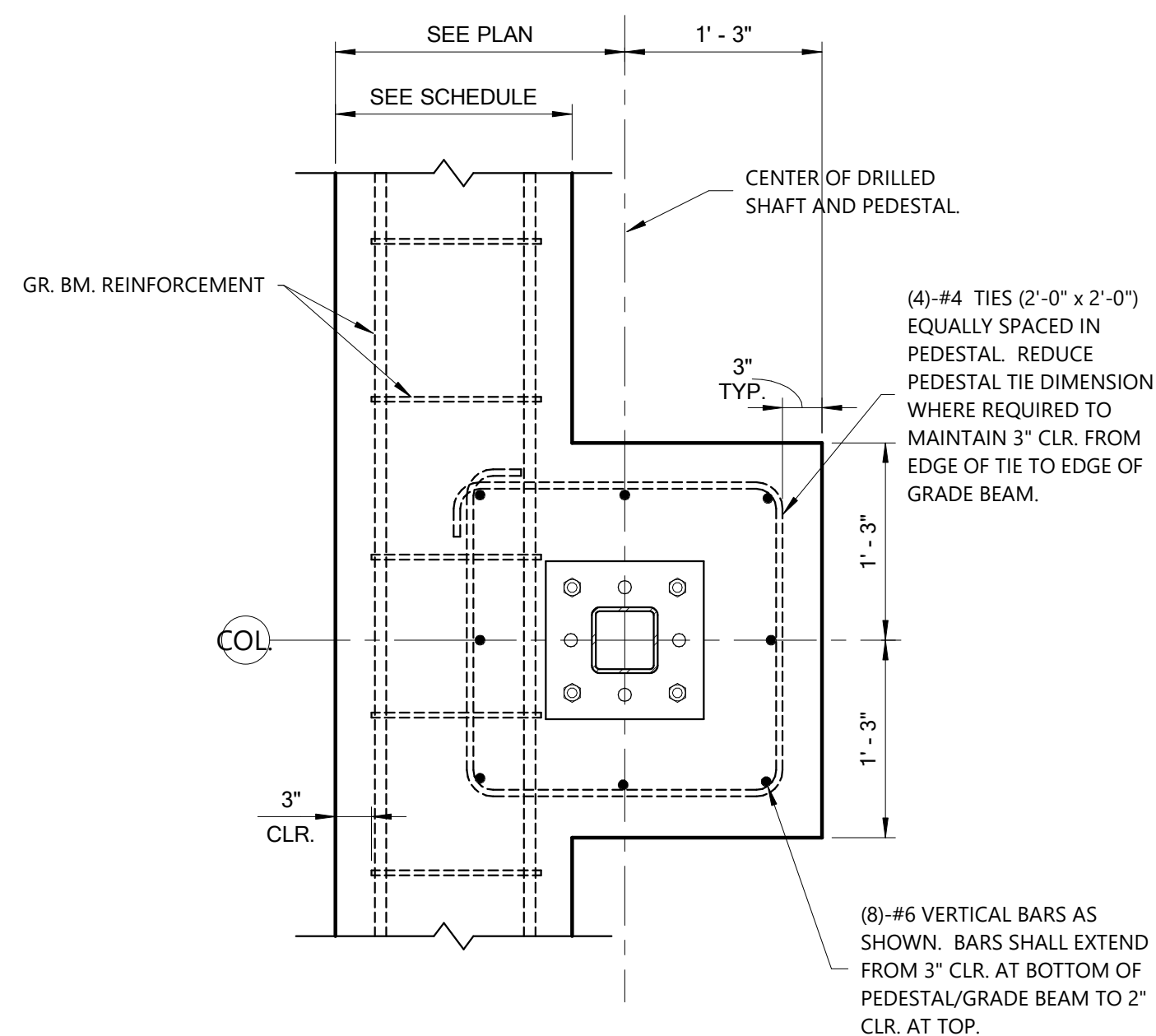


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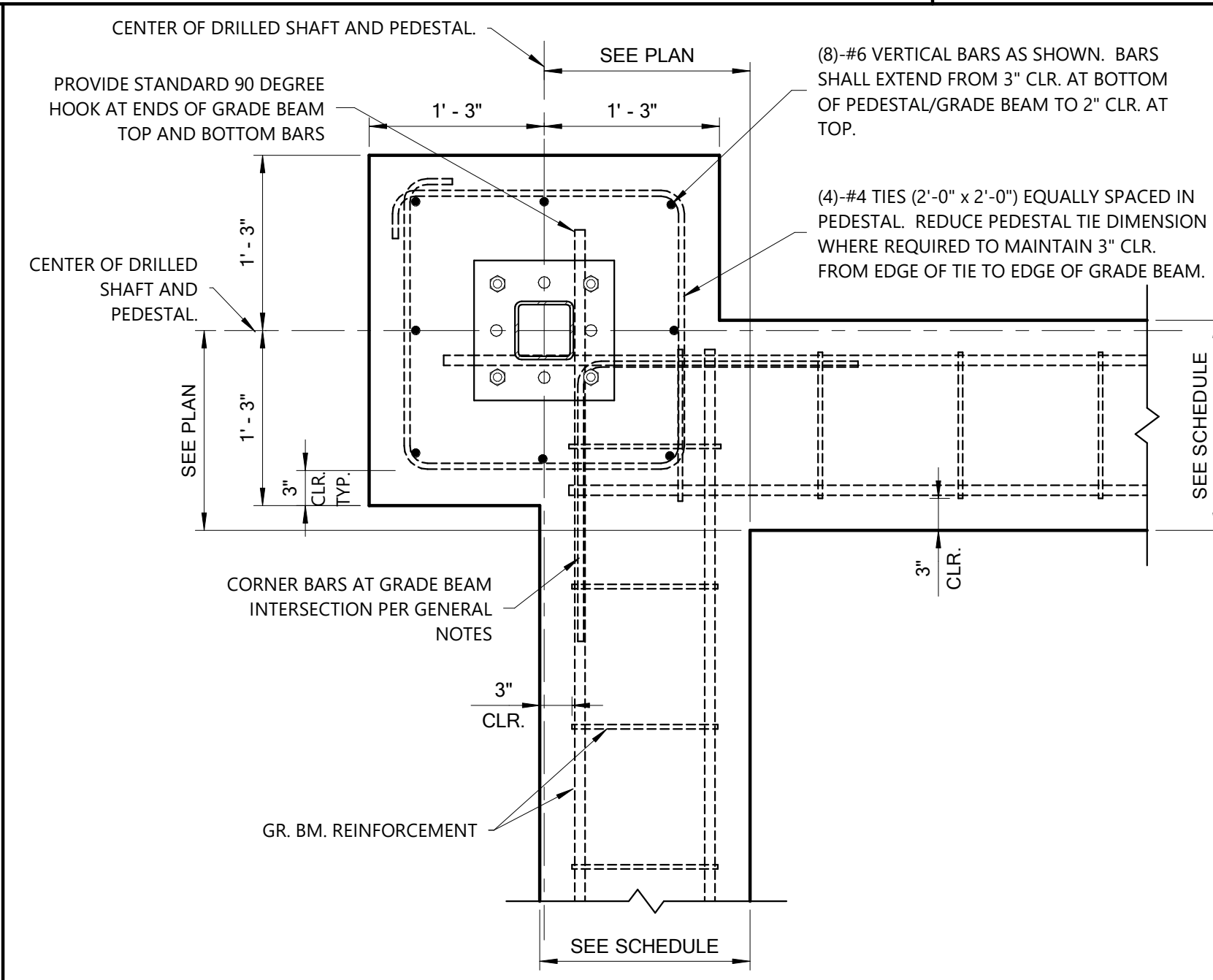
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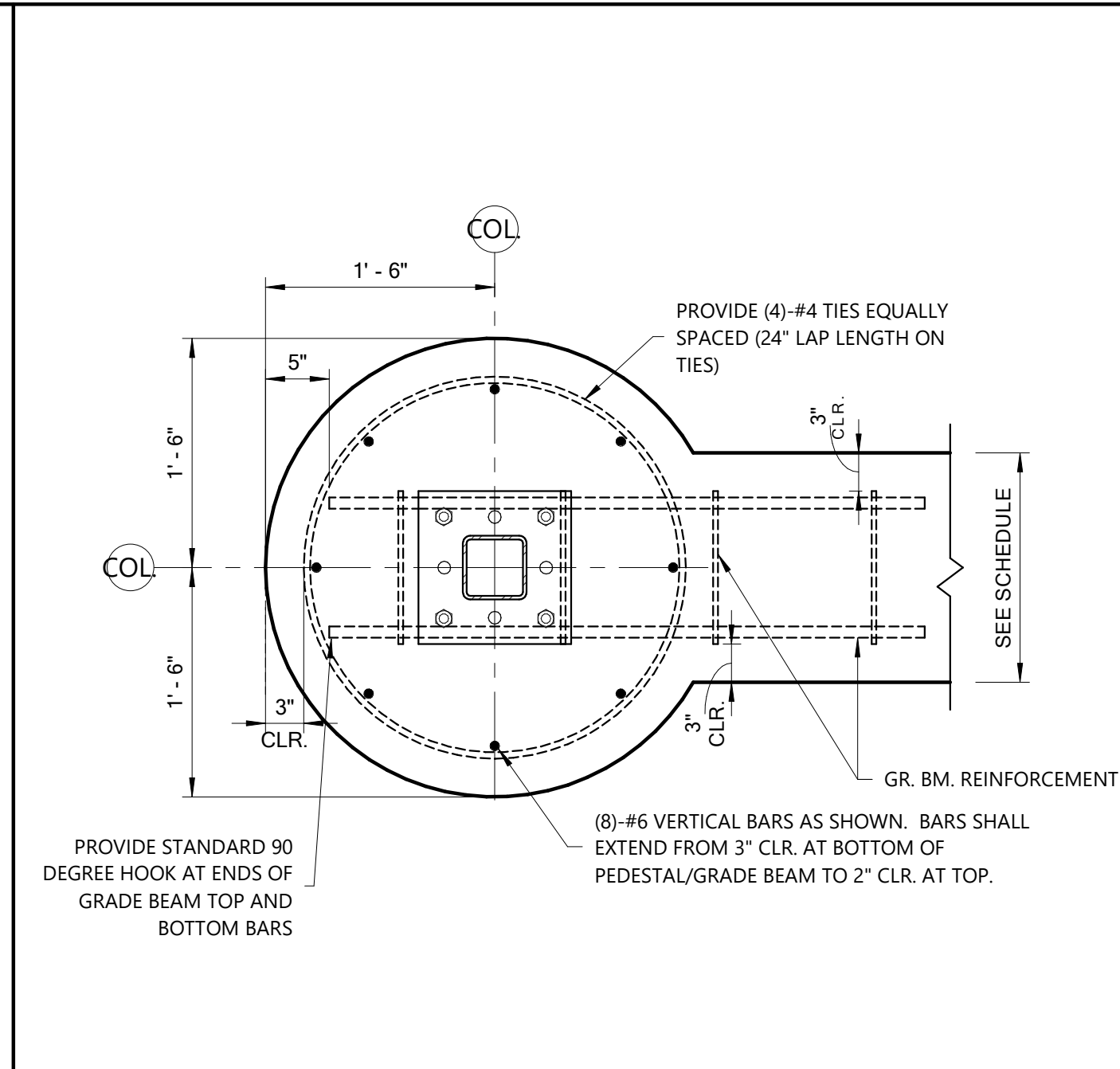
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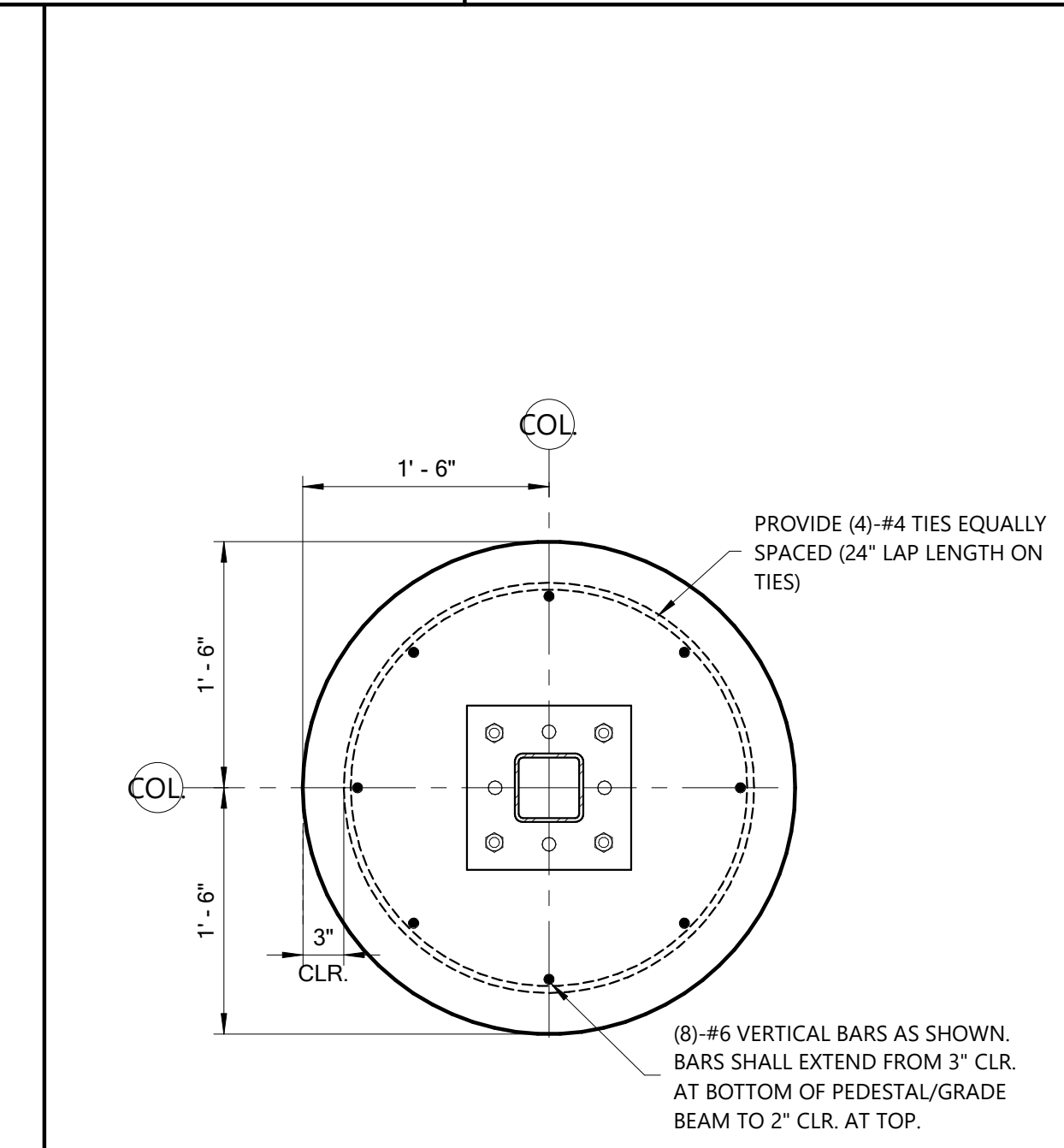
4 Typical Edge Pedestal Plan View
1" = 1'-0"



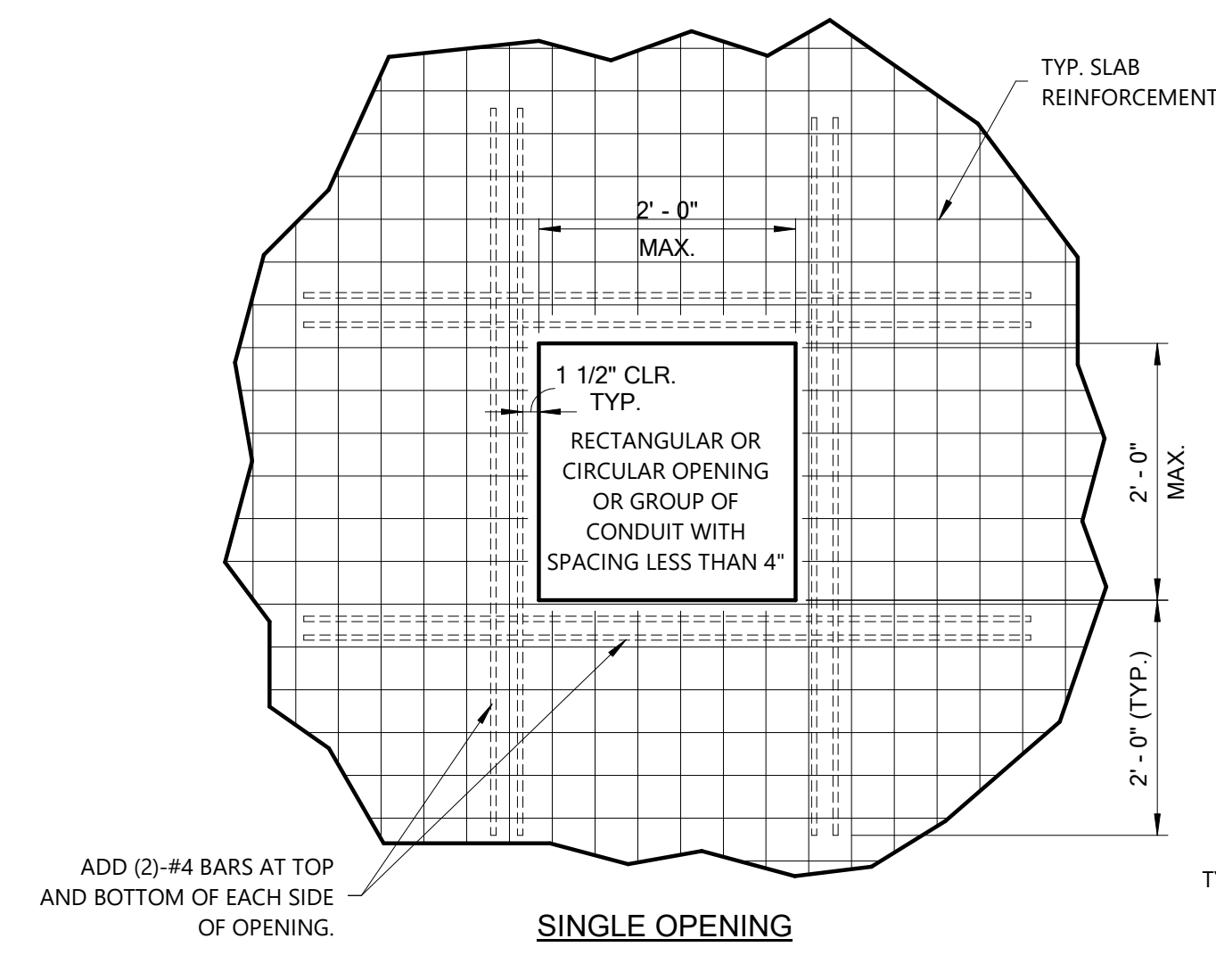
5 Typical Interior Corner Pedestal Plan View
1" = 1'-0"



6 Interior Pedestal Plan View At Grade Beam
1" = 1'-0"

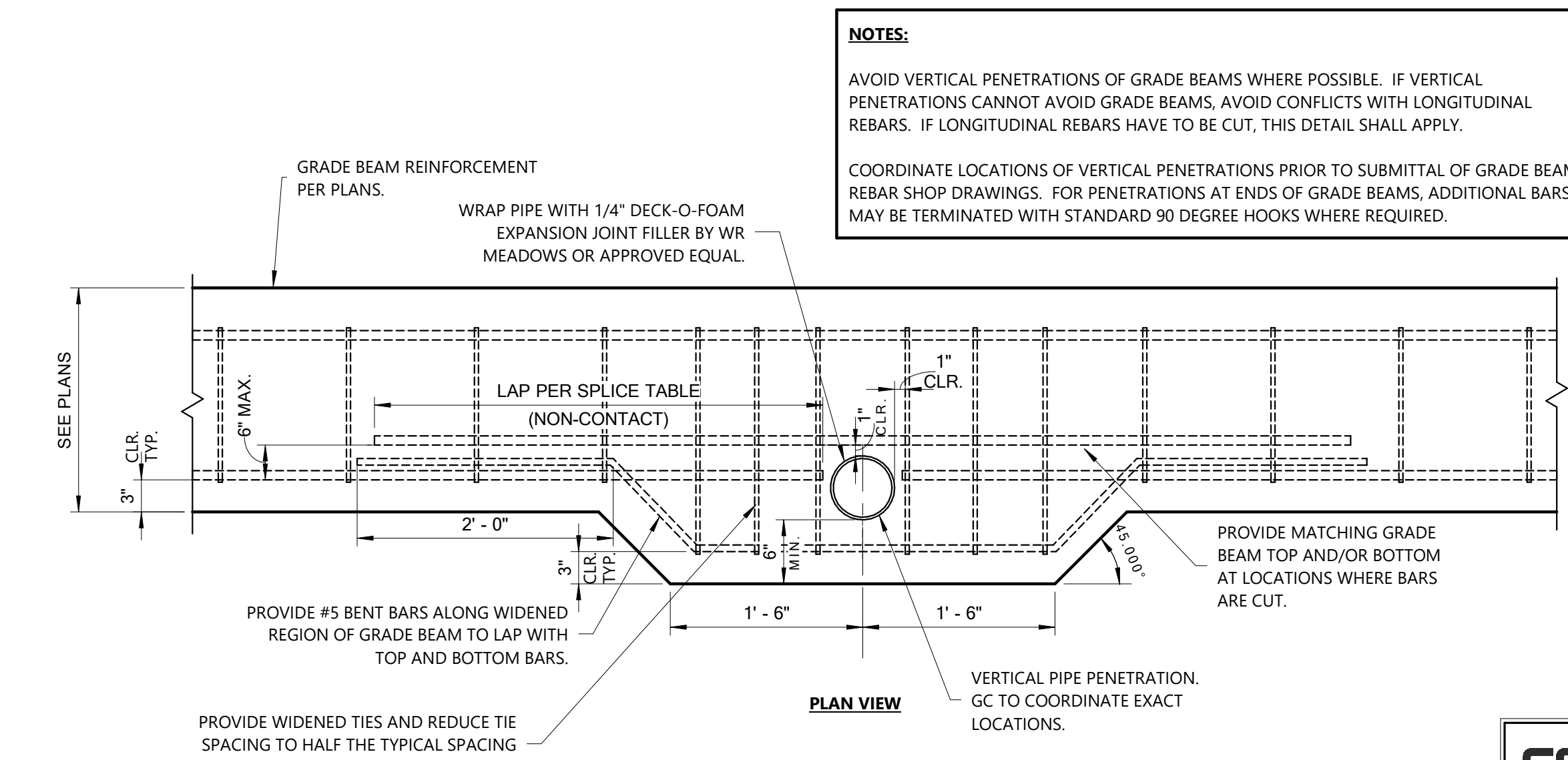
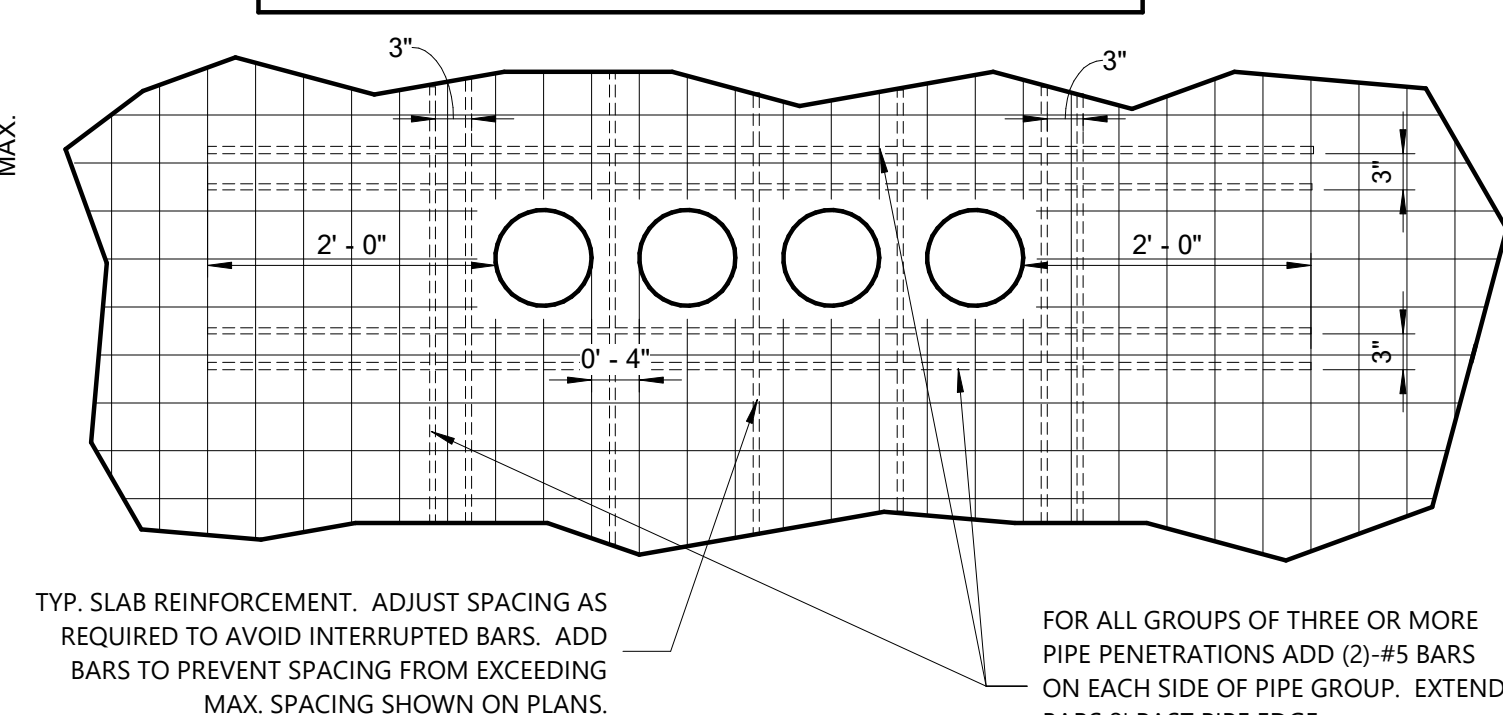


7 Interior Pedestal Plan View
1" = 1'-0"



8 Typical Openings In Concrete Slab On Grade
3/4" = 1'-0"

- NOTES:**
- ISOLATED OPENINGS 10" AND SMALLER DO NOT REQUIRE ADDITIONAL REINFORCEMENT. ADJUST SPACING OF #4 BARS ACCORDINGLY TO AVOID CONFLICTS.
 - COORDINATE SIZE AND LOCATION OF OPENINGS WITH ARCH, MECH, PLUMBING, AND ELEC.
 - FOR SPECIAL CASES NOT COVERED BY THIS DETAIL OR OTHER INFORMATION ON THESE DRAWINGS, CONTACT ENGINEER FOR REINFORCEMENT PRIOR TO FABRICATION.



9 Vertical Penetration In Grade Beam
1" = 1'-0"

- NOTES:**
- AVOID VERTICAL PENETRATIONS OF GRADE BEAMS WHERE POSSIBLE. IF VERTICAL PENETRATIONS CANNOT AVOID GRADE BEAMS, AVOID CONFLICTS WITH LONGITUDINAL REBARS. IF LONGITUDINAL REBARS HAVE TO BE CUT, THIS DETAIL SHALL APPLY.
 - COORDINATE LOCATIONS OF VERTICAL PENETRATIONS PRIOR TO SUBMITTAL OF GRADE BEAM REBAR SHOP DRAWINGS. FOR PENETRATIONS AT ENDS OF GRADE BEAMS, ADDITIONAL BARS MAY BE TERMINATED WITH STANDARD 90 DEGREE HOOKS WHERE REQUIRED.

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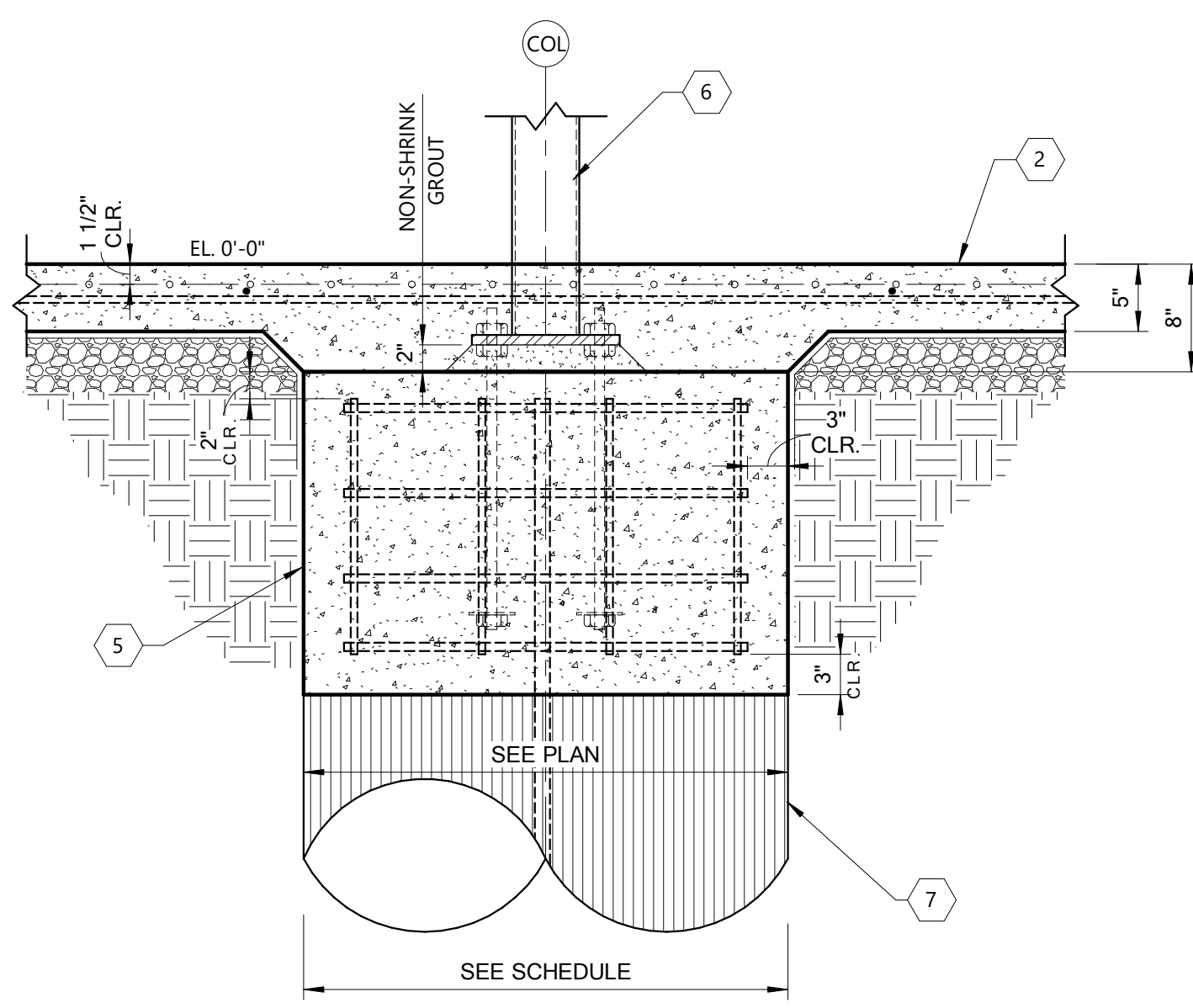
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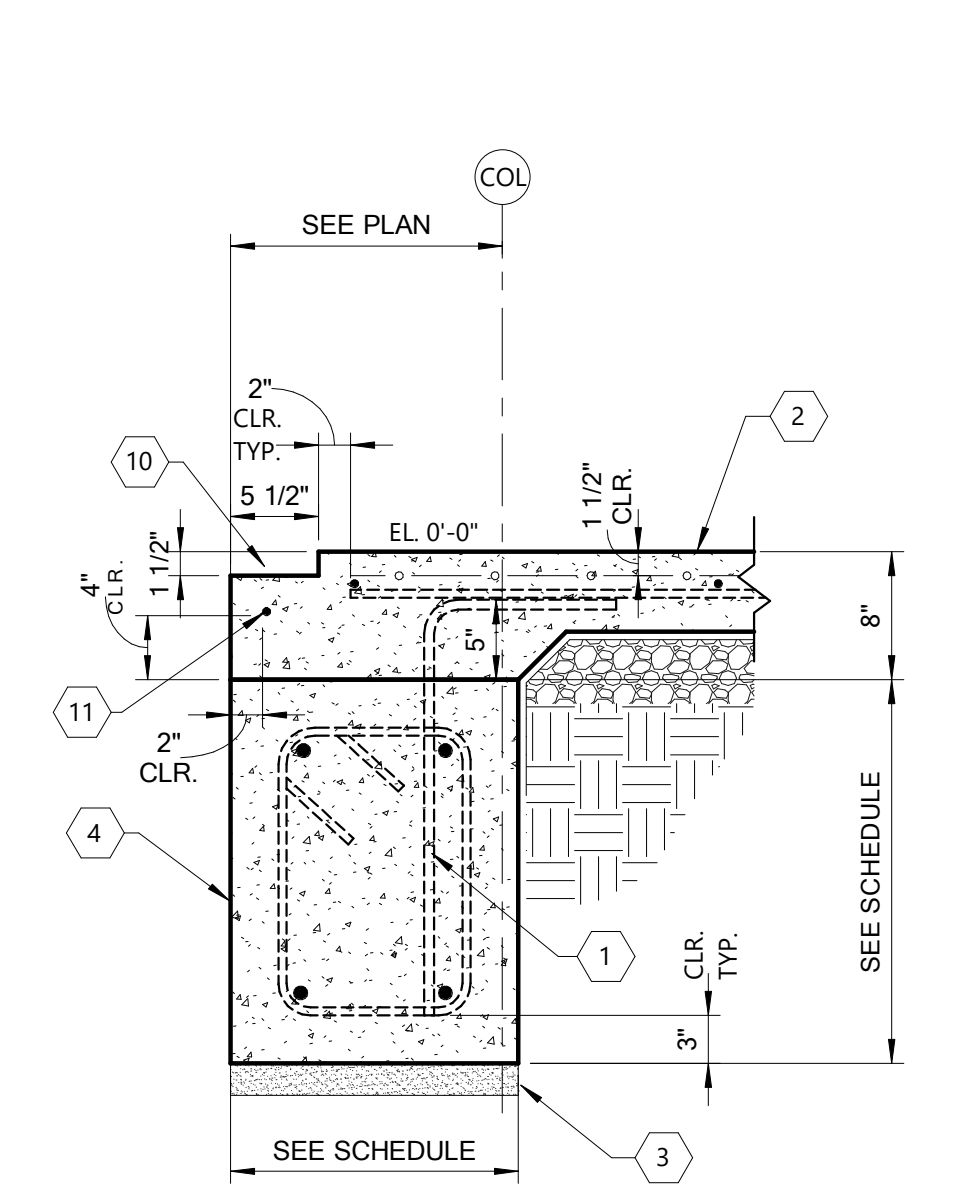


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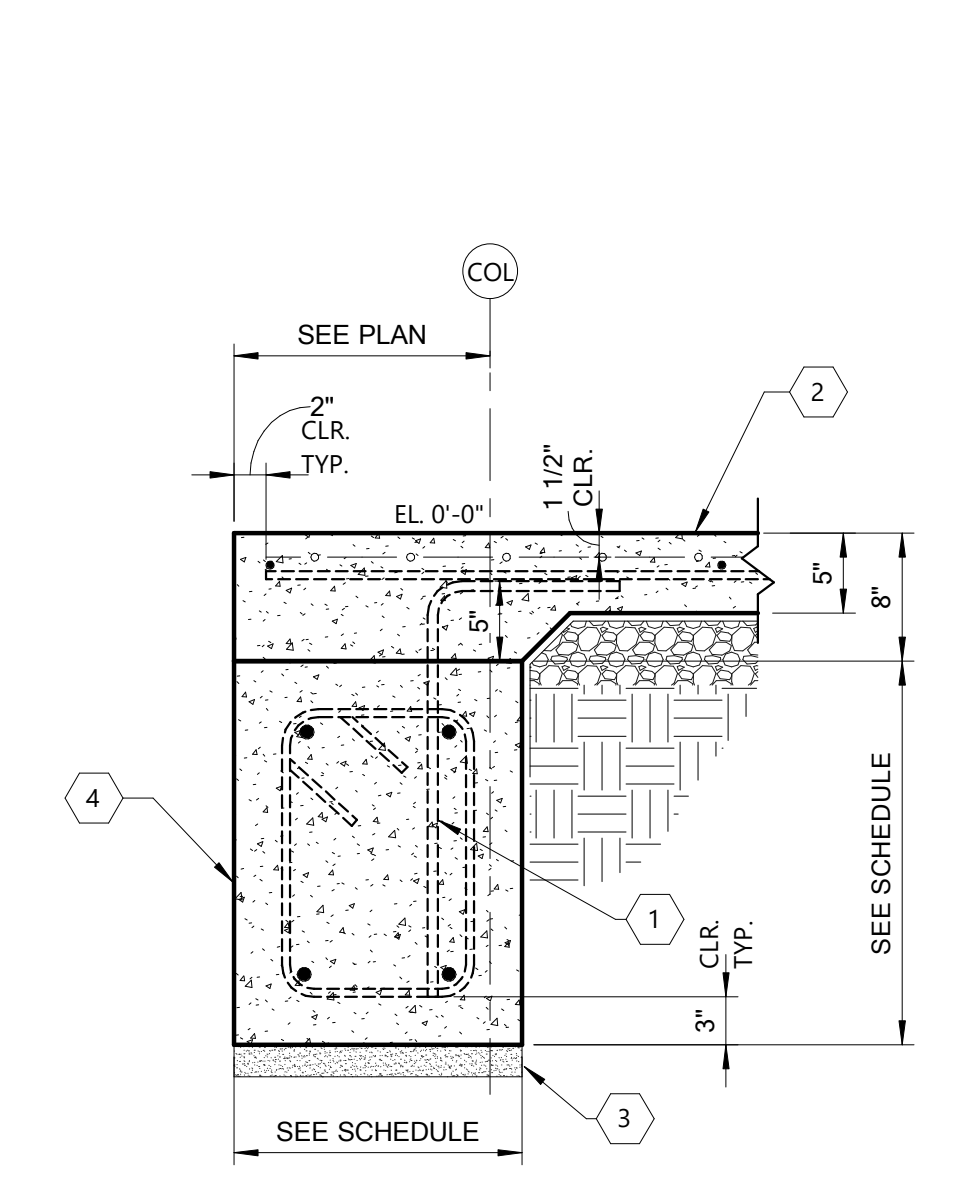
North
S5.11



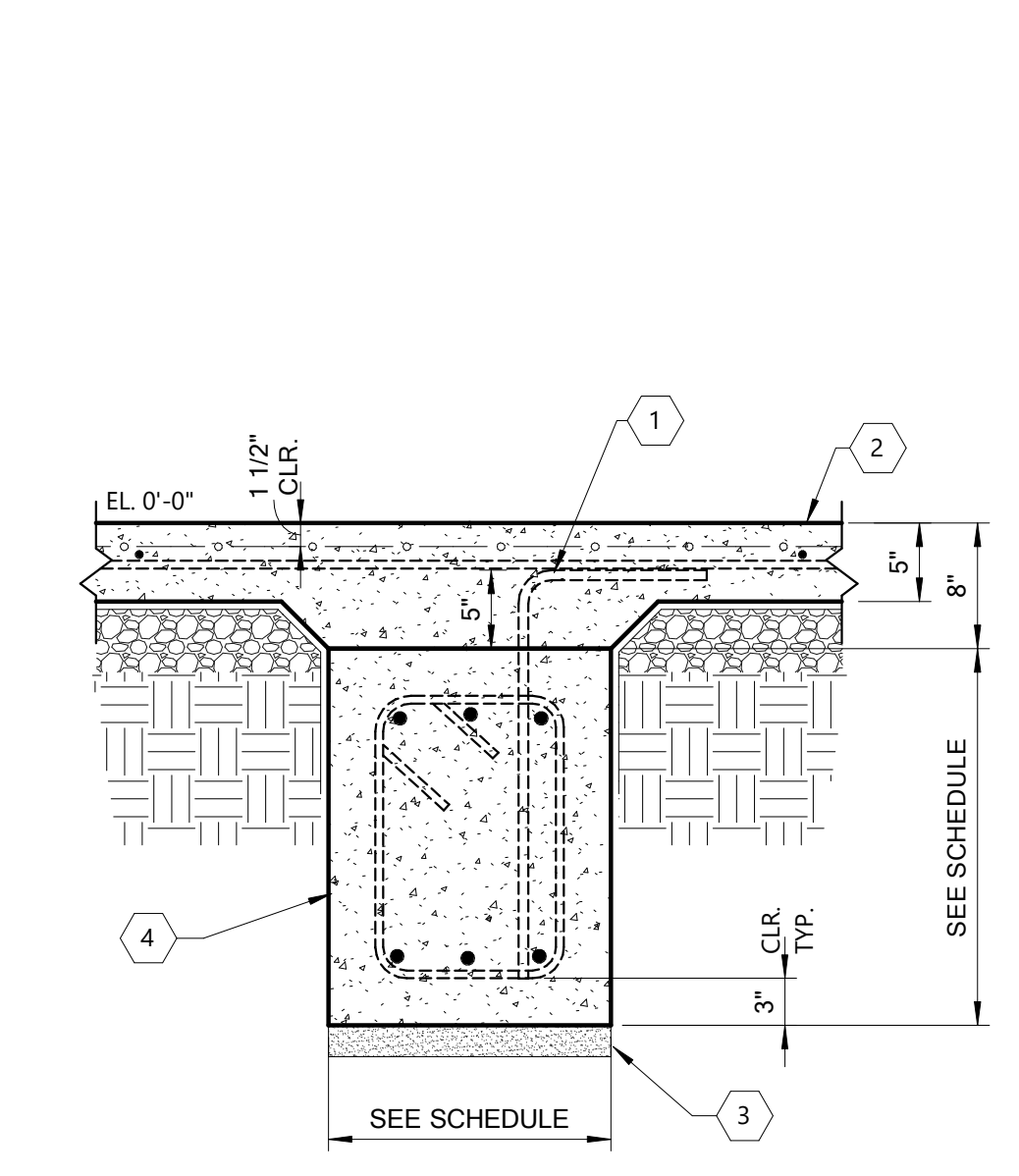
1 Section At Interior Pedestal
1" = 1'-0"



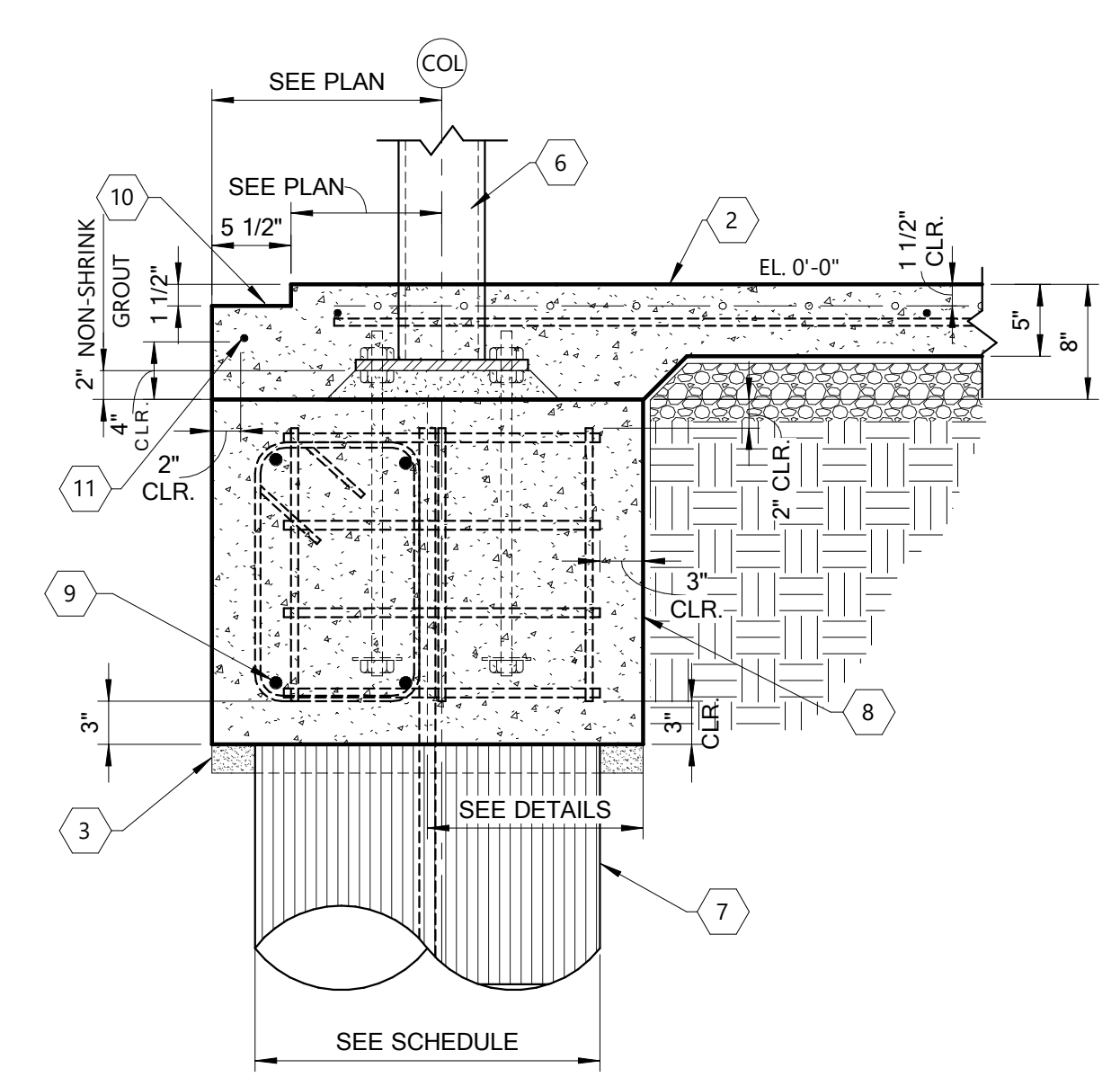
2 Typical Exterior Grade Beam
1" = 1'-0"



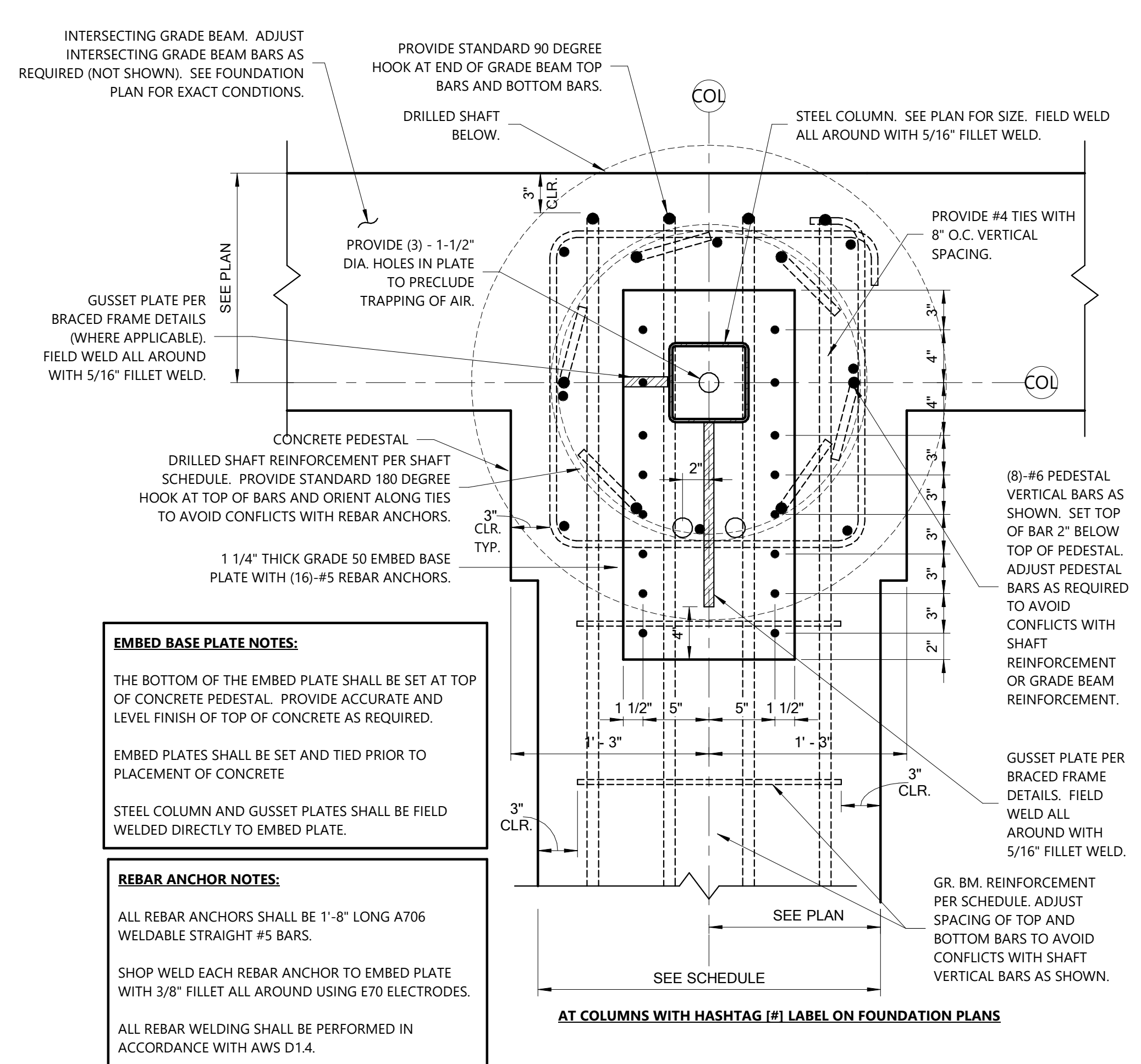
3 Exterior Grade Beam Detail
1" = 1'-0"



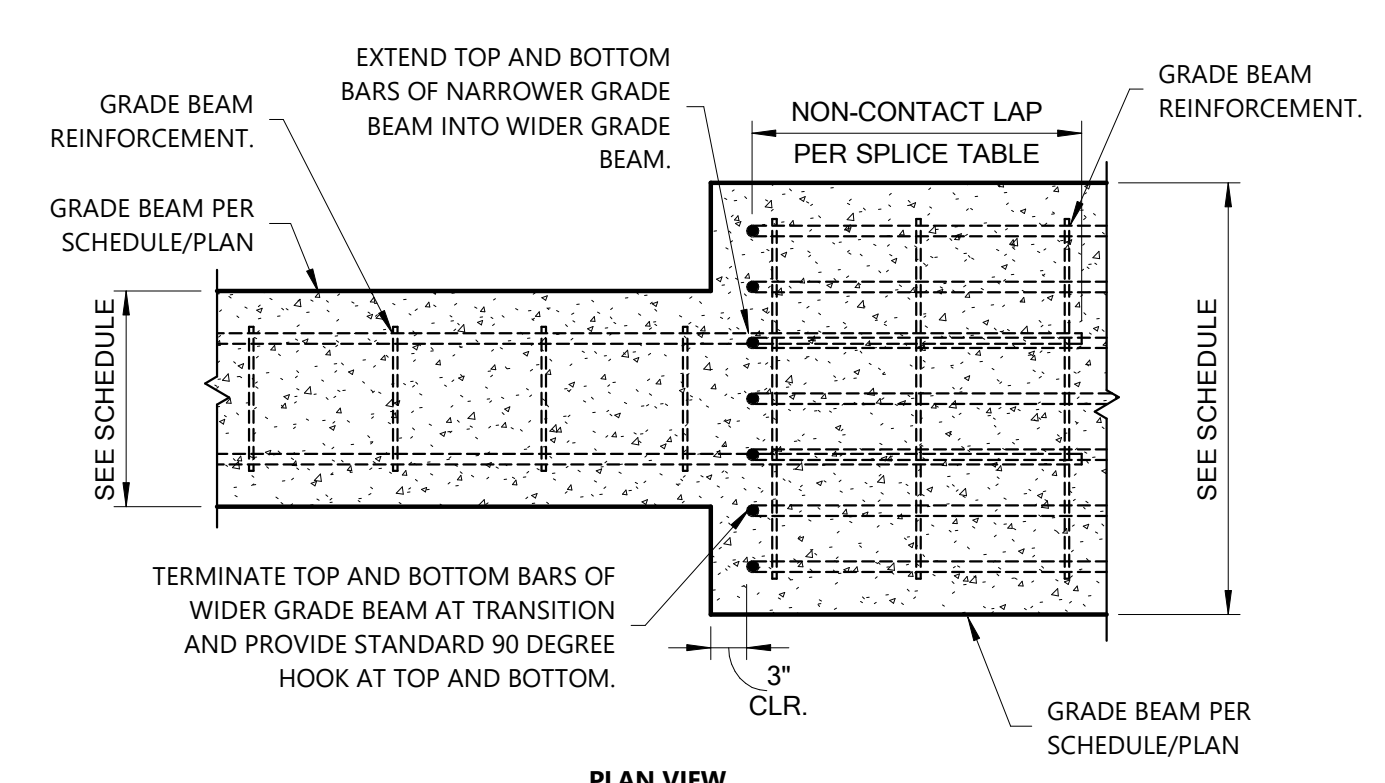
4 Typical Interior Grade Beam
1" = 1'-0"



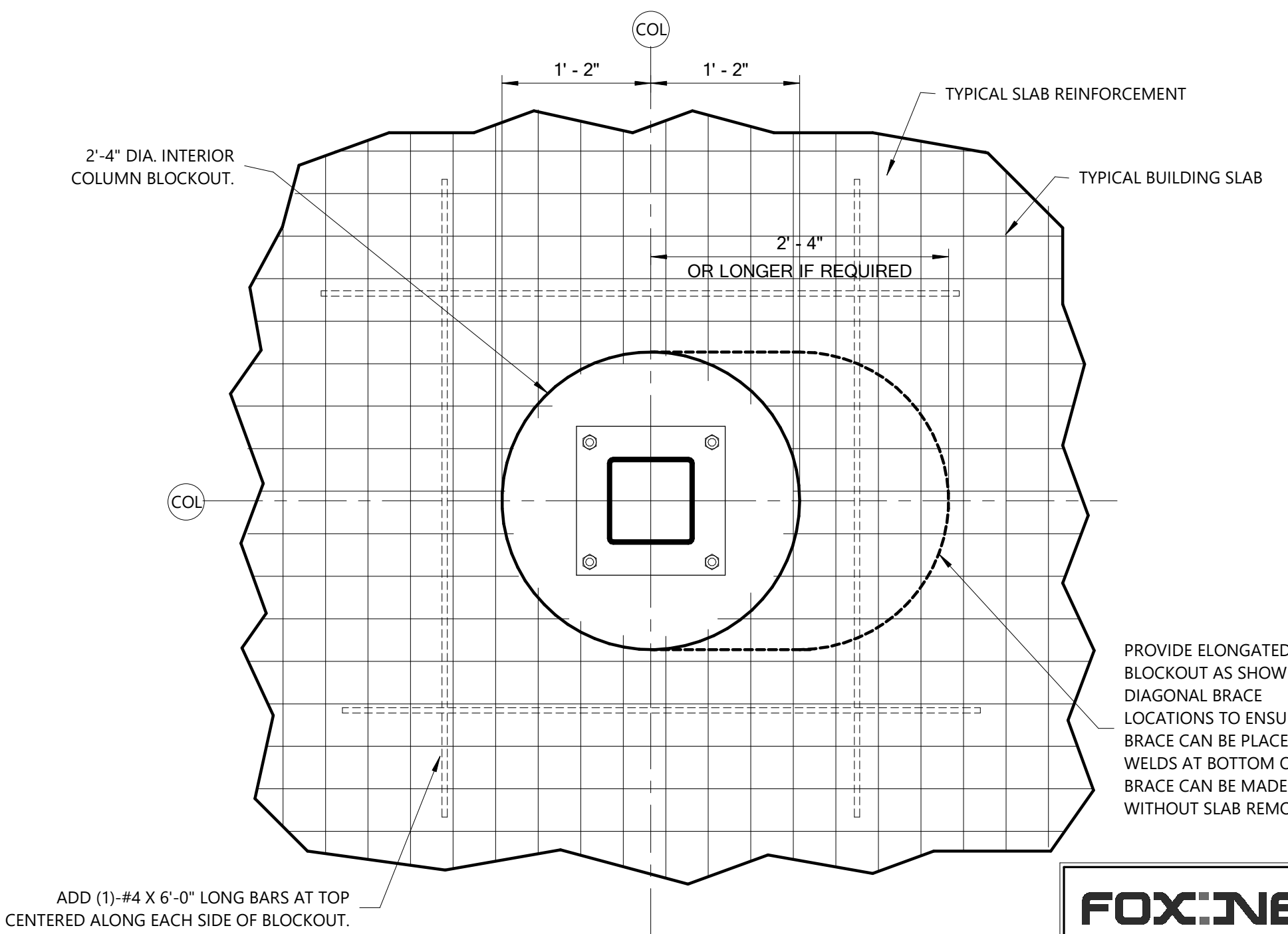
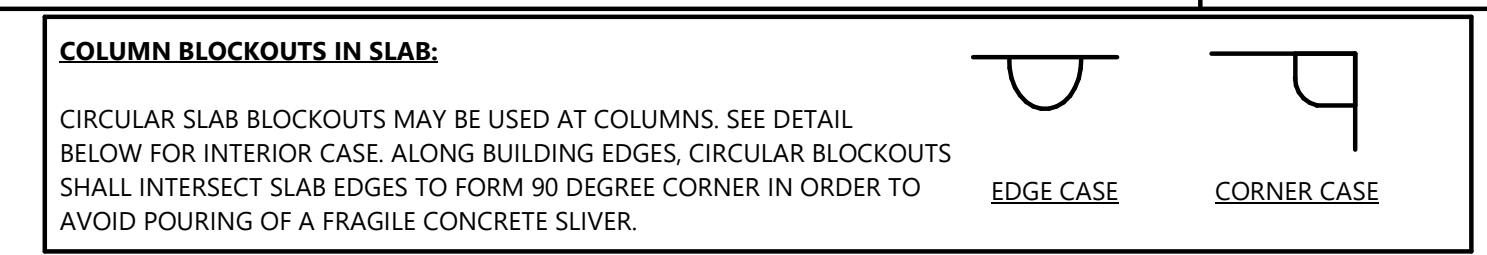
5 Section At Exterior Column
1" = 1'-0"



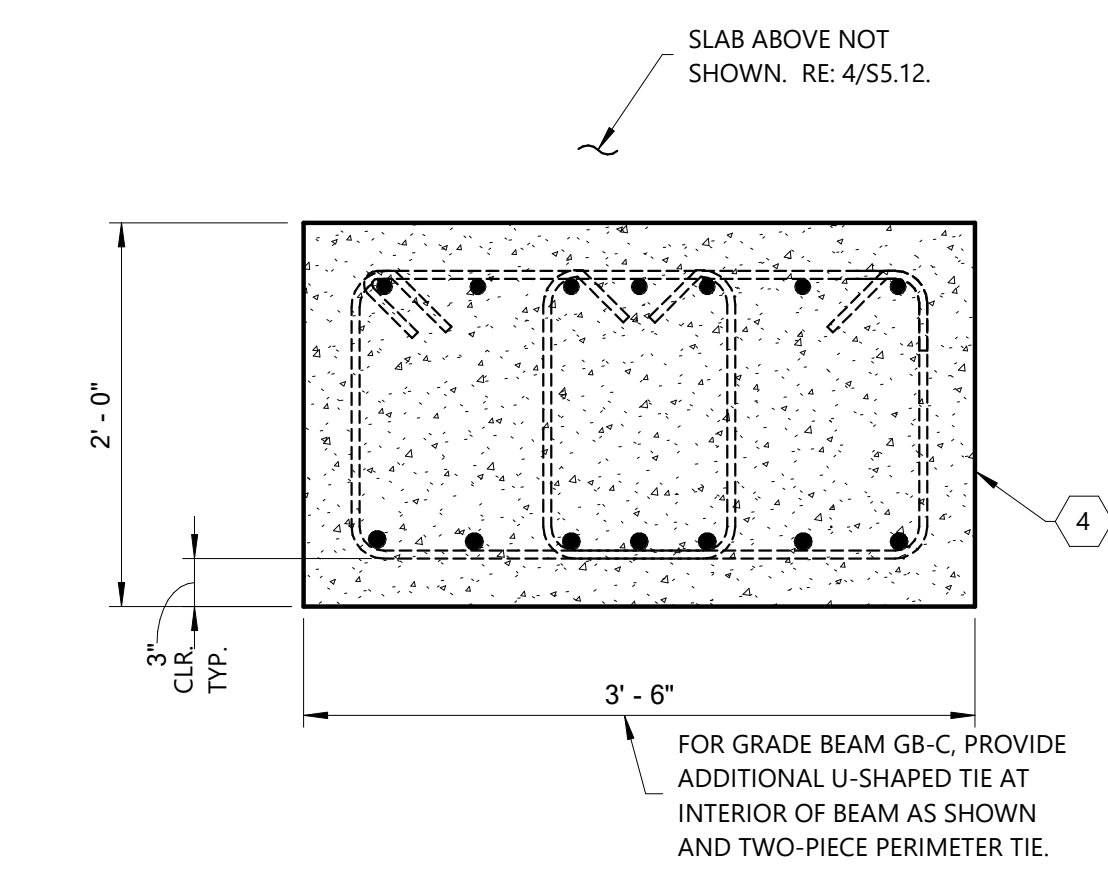
6 Embed Base Plate and Pedestal Detail At Braced Frame Columns
1 1/2" = 1'-0"



8 Grade Beam Width Transition
N.T.S.



9 Slab Blockout At Int. Column
1" = 1'-0"



7 Ties At Grade Beam GB-C
1" = 1'-0"

Keynote Legend

- SEE NOTE ON FOUNDATION PLAN FOR TYPICAL SLAB TO GRADE BEAM DOWELS.
- 5" THICK CONCRETE SLAB. SEE SLAB PLAN FOR MORE INFORMATION.
- PROVIDE 2" DRY BOTTOM CONCRETE UNDER ALL GRADE BEAMS AND SPREAD FOOTINGS. SEE FOUNDATION PLAN NOTES FOR MORE INFORMATION.
- GRADE BEAM - SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
- CIRCULAR CONCRETE PEDESTAL. SEE PEDESTAL PLAN VIEW DETAILS FOR REINFORCEMENT.
- STEEL COLUMN - SEE PLAN FOR SIZE.
- DRILLED SHAFT - SEE SCHEDULE FOR INFORMATION.
- RECTANGULAR CONCRETE PEDESTAL. SEE PEDESTAL PLAN VIEW DETAILS FOR REINFORCEMENT.
- CONTINUE GRADE BEAM REINFORCEMENT THROUGH PEDESTAL.
- CONT. SLAB DAP-OUT AT MASONRY VENEER. RE. ARCH. FOR EXACT LIMITS.
- (1) - #4 CONT. ALONG EDGE OF SLAB.

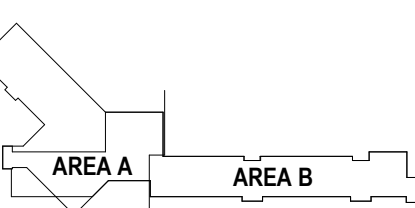


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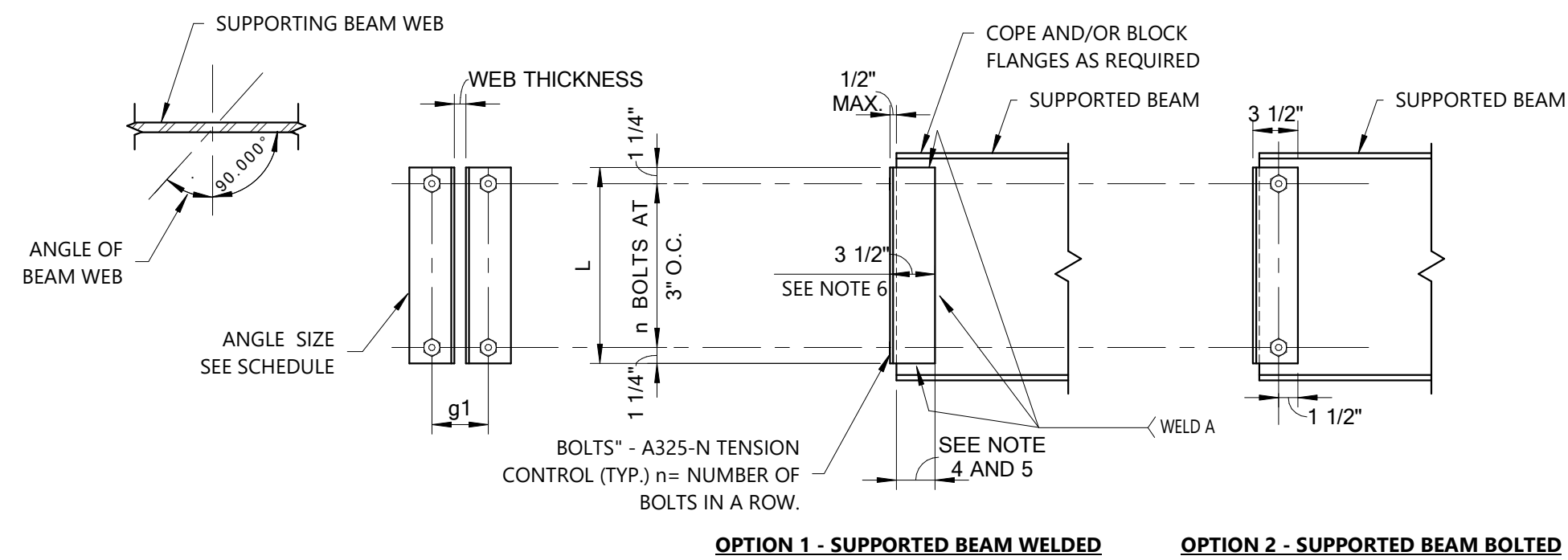


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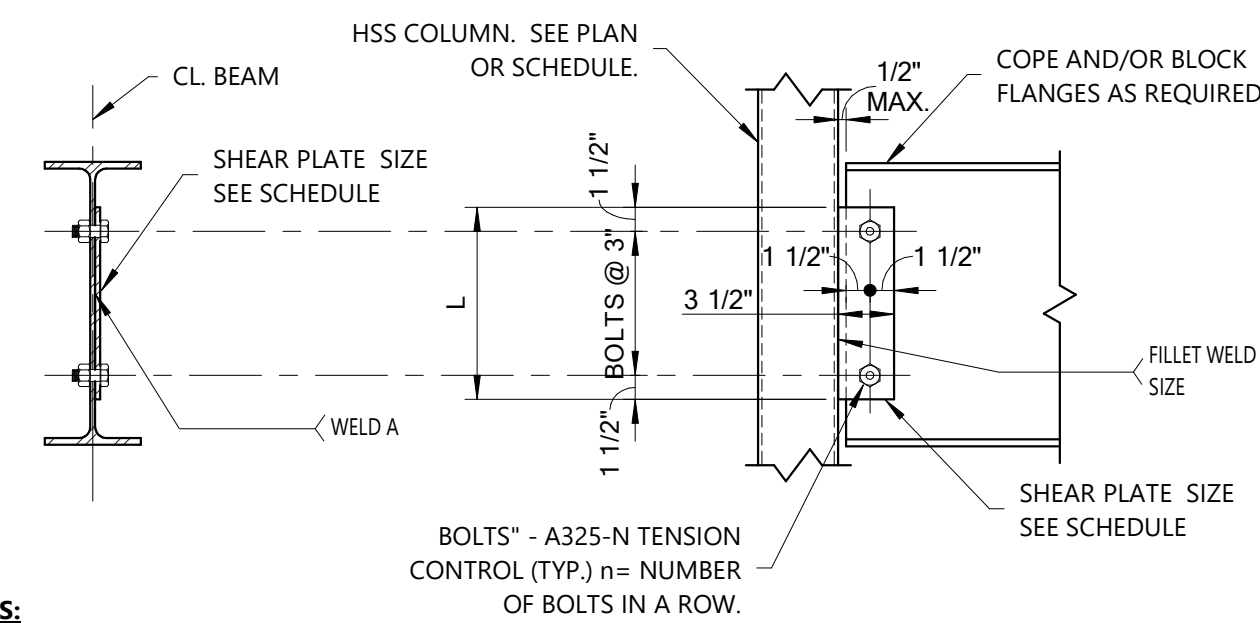
North
S5.12



- NOTES:**
- FOR ANGLES 45 DEGREES FROM PERPENDICULAR. SEE "SKEWED BEAM CONNECTION AT 45 DEGREES" DETAIL.
 - LEG SHALL BE ADJUSTED WHERE REQUIRED BY GEOMETRY.
 - AT DOUBLE BEAM CONNECTIONS AT COLUMNS, INCREASE ANGLE LEG AND ADD BOLTS AS REQUIRED TO MEET OSHA STANDARDS.
 - FOR BEAM TO BEAM CONNECTIONS, PROVIDE CONNECTION PER THE SHALLOWER MEMBER AND COPE SUPPORTED BEAM AS REQUIRED.
 - CONNECTION TO WEB OF SUPPORTED BEAM MAY BE WELDED OR BOLTED.

BEAM SIZE	ANGLE SIZE	L (inches)	n	g1	WELD A	BOLTS
W8's & W10's	L4x3 1/2x5/16	5 1/2	2	5 1/2	3/16	3/4"
W12's	L4x3 1/2x5/16	8 1/2	3	5 1/2	3/16	3/4"
W14's	L4x3 1/2x5/16	8 1/2	3	5 1/2	3/16	3/4"
W16's	L4x3 1/2x5/16	11 1/2	4	5 1/2	3/16	3/4"
W18's	L4x3 1/2x5/16	14 1/2	5	5 1/2	3/16	3/4"
W21's	L4x3 1/2x5/16	17 1/2	6	5 1/2	3/16	3/4"
W24's	L4x3 1/2x5/16	20 1/2	7	5 1/2	1/4	3/4"
W27's	L4x3 1/2x5/16	23 1/2	8	5 1/2	1/4	3/4"
W30's	L4x3 1/2x5/16	26 1/2	9	5 1/2	1/4	3/4"

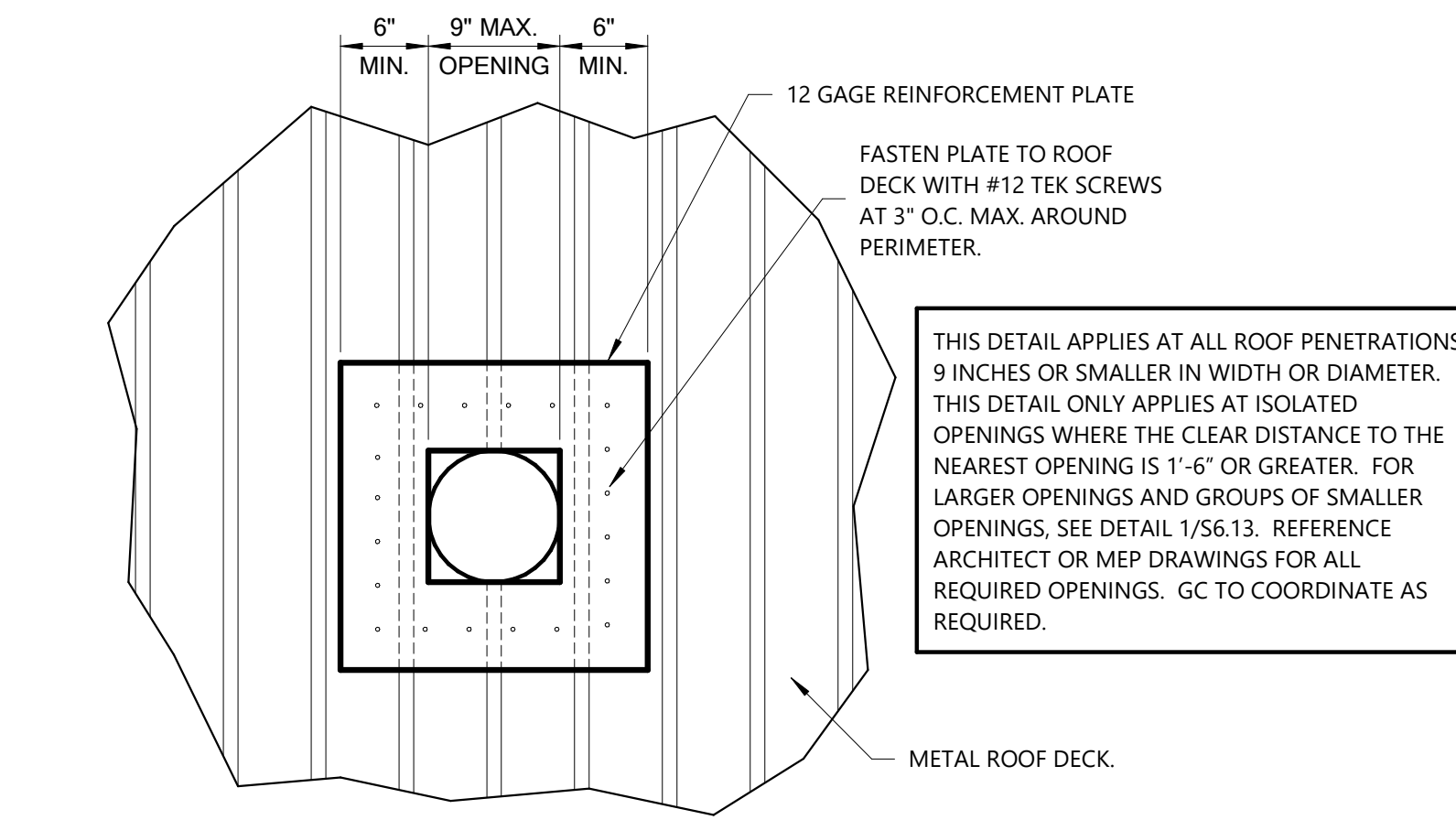
1 Typical Beam Connection Schedule And Detail
1" = 1'-0"



- NOTES:**
- WHERE BEAM FRAMES INTO FLAT FACE OF HSS COLUMN ON A SKEW 10 DEGREES OR LESS FROM PERPENDICULAR, PLATE SHALL BE WELDED TO COLUMN WITH FILLET WELD AS INDICATED IN TABLE BELOW.
 - WHERE BEAM FRAMES INTO FLAT FACE OF HSS COLUMN ON A SKEW GREATER THAN 10 DEGREES FROM PERPENDICULAR SHALL BE FULL PEN WELDED TO COLUMN.
 - FOR PLATES ATTACHING TO THE RADIUS CORNER OF AN HSS COLUMN USE COMPLETE JOINT PENETRATION WELD.
 - SLOTTED BOLT HOLES SHALL NOT BE USED, UNLESS NOTED OTHERWISE, EXCEPT AT LOCATIONS APPROVED BY ENGINEER VIA THE RFI PROCESS.

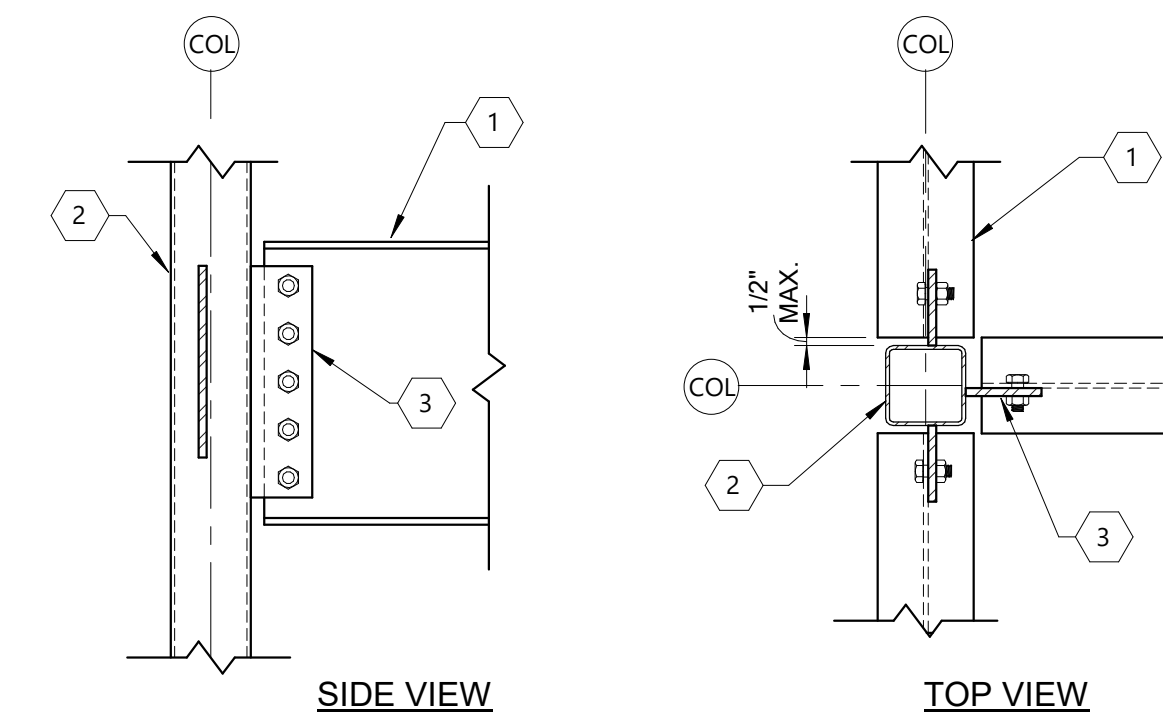
BEAM SIZE	PLATE SIZE (inches)	L (inches)	n	WELD (TYP.) EA. SIDE (inches)	BOLTS (TYP.)
W8's	5/16	6	2	3/16	3/4"
W10's	5/16	6	2	3/16	3/4"
W12's	5/16	9	3	3/16	3/4"
W14's	5/16	9	3	3/16	3/4"
W16's	5/16	12	4	3/16	3/4"
W18's	5/16	15	5	3/16	3/4"
W21's	5/16	18	6	1/4	3/4"
W24's	5/16	18	6	1/4	3/4"
W27's	5/16	21	7	1/4	3/4"
W33's	5/16	24	8	1/4	3/4"

2 Typical Beam To HSS Column Connection Schedule And Detail
1" = 1'-0"

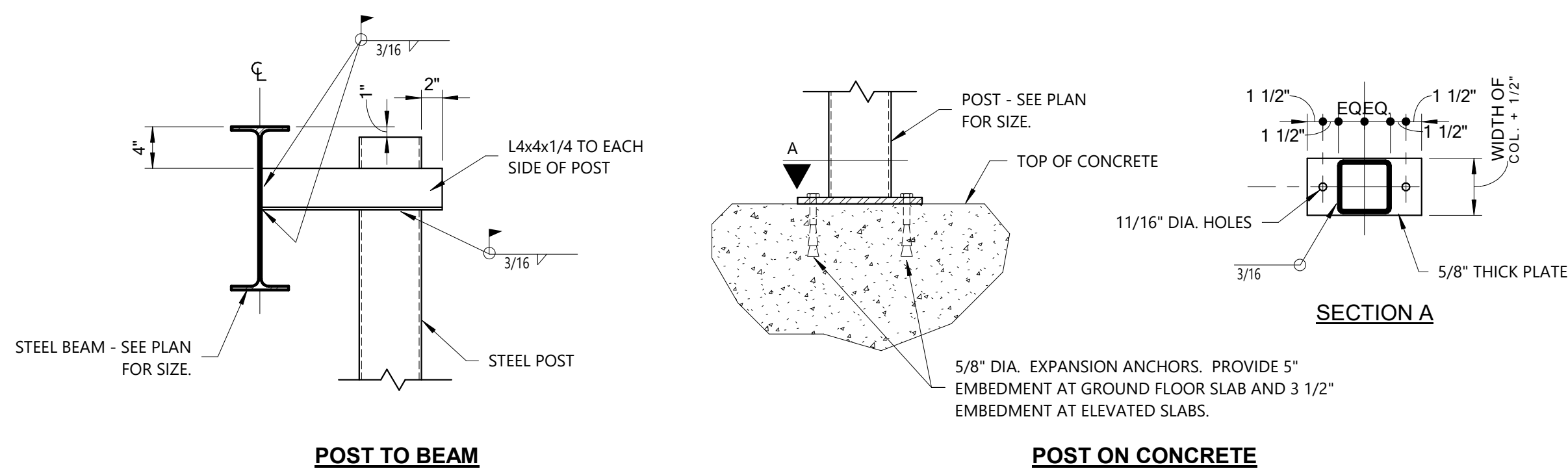


THIS DETAIL APPLIES AT ALL ROOF PENETRATIONS 9 INCHES OR SMALLER IN WIDTH OR DIAMETER. THIS DETAIL ONLY APPLIES AT ISOLATED OPENINGS WHERE THE CLEAR DISTANCE TO THE NEAREST OPENING IS 1'-6" OR GREATER. FOR LARGER OPENINGS AND GROUPS OF SMALLER OPENINGS, SEE DETAIL 1/56.13. REFERENCE ARCHITECT OR MEP DRAWINGS FOR ALL REQUIRED OPENINGS. GC TO COORDINATE AS REQUIRED.

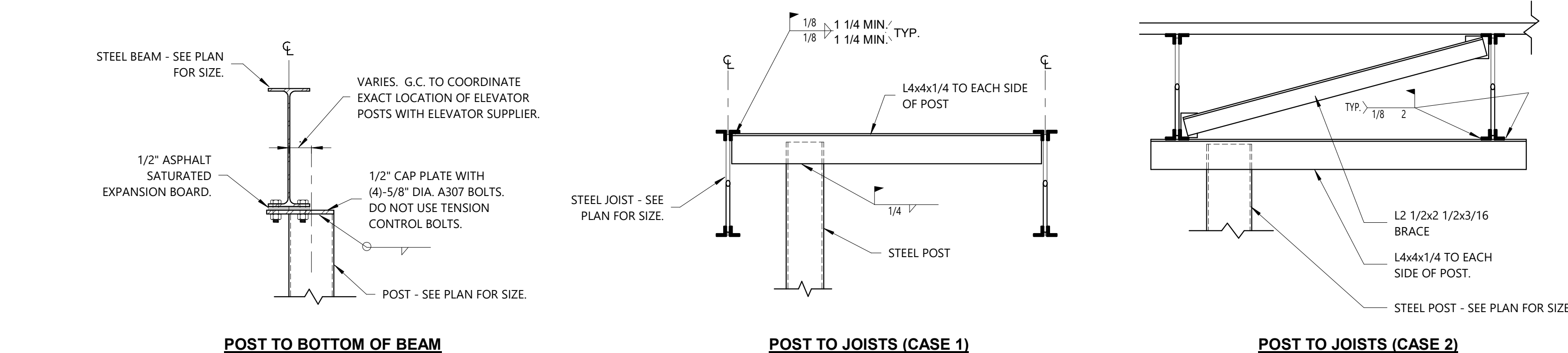
3 Small Reinforced Roof Deck Opening
1" = 1'-0"



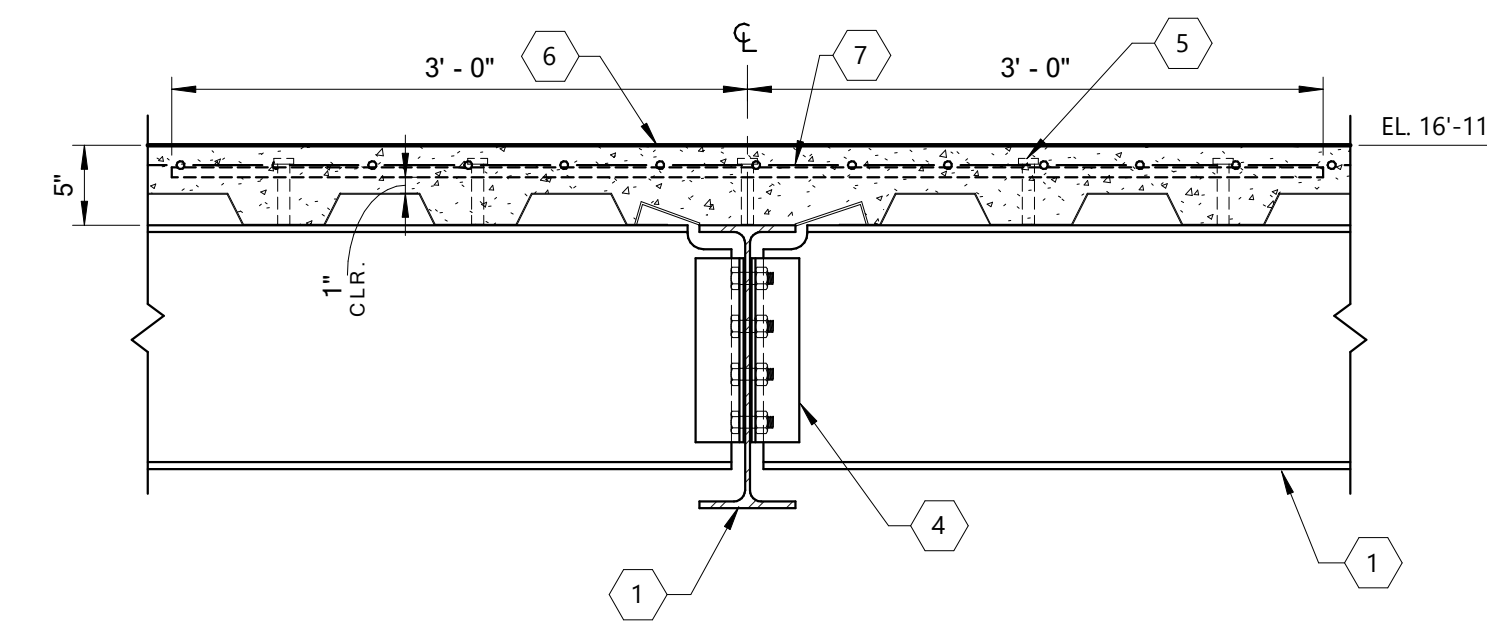
4 Beam To HSS Column
1" = 1'-0"



NOTE: ELEVATOR STEEL DIMENSIONS
ELEVATOR SUPPLIER SHALL PROVIDE SUBMITTAL TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL INDICATING REQUIRED LOCATIONS OF ALL ELEVATOR POSTS RELATIVE TO GRIDLINES AT ELEVATOR SHAFT. SUBMITTAL SHALL ALSO INDICATE REQUIRED LOCATION OF HOIST BEAM RELATIVE TO GRIDLINES AT ELEVATOR SHAFT AND PLANNED ELEVATION OF HOIST BEAM ABOVE FINISHED FLOOR. ELEVATOR POSTS, HOIST BEAM, AND BEAMS WHICH SUPPORT ELEVATOR POSTS AND HOIST BEAMS SHALL NOT BE APPROVED FOR FABRICATION UNTIL THIS SUBMITTAL IS REVIEWED AND APPROVED.



5 Elevator Post Details
1" = 1'-0"



6 Typical Beam To Beam - Composite Slab
1" = 1'-0"

Keynote Legend

- STEEL BEAM - SEE PLAN FOR SIZE.
- STEEL COLUMN - SEE PLAN FOR SIZE.
- STANDARD SINGLE PLATE BEAM CONNECTION. RE: TYPICAL BEAM TO HSS COLUMN CONNECTION SCHEDULE AND DETAIL.
- STANDARD DOUBLE ANGLE BEAM CONNECTION. RE: BEAM CONNECTION SCHEDULE AND DETAIL FOR INFORMATION.
- 3/4" DIA. X 4" LONG HEADED SHEAR STUDS. SEE PLANS FOR NUMBER REQUIRED.
- LIGHT WEIGHT CONCRETE FLOOR SLAB OVER METAL DECK. SEE PLAN FOR MORE INFORMATION.
- AT EACH BEAM TO GIRDER LOCATION, ADD (3)-#5 TRANSVERSE BARS X 6'-0" LONG 1" CLR. FROM TOP OF SLAB. CENTER BARS ABOUT GIRDER AND PROVIDE 12" SPACING BETWEEN BARS. WHERE BEAMS ALONG EACH SIDE OF GIRDER ALIGN OR ARE LOCATED WITHIN 1'-0" OF EACH OTHER, A SINGLE GROUP OF BARS MAY BE PROVIDED.

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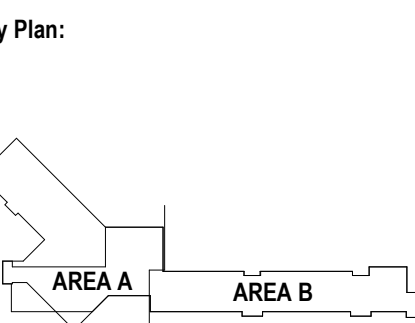
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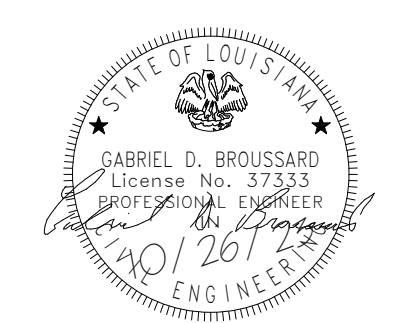
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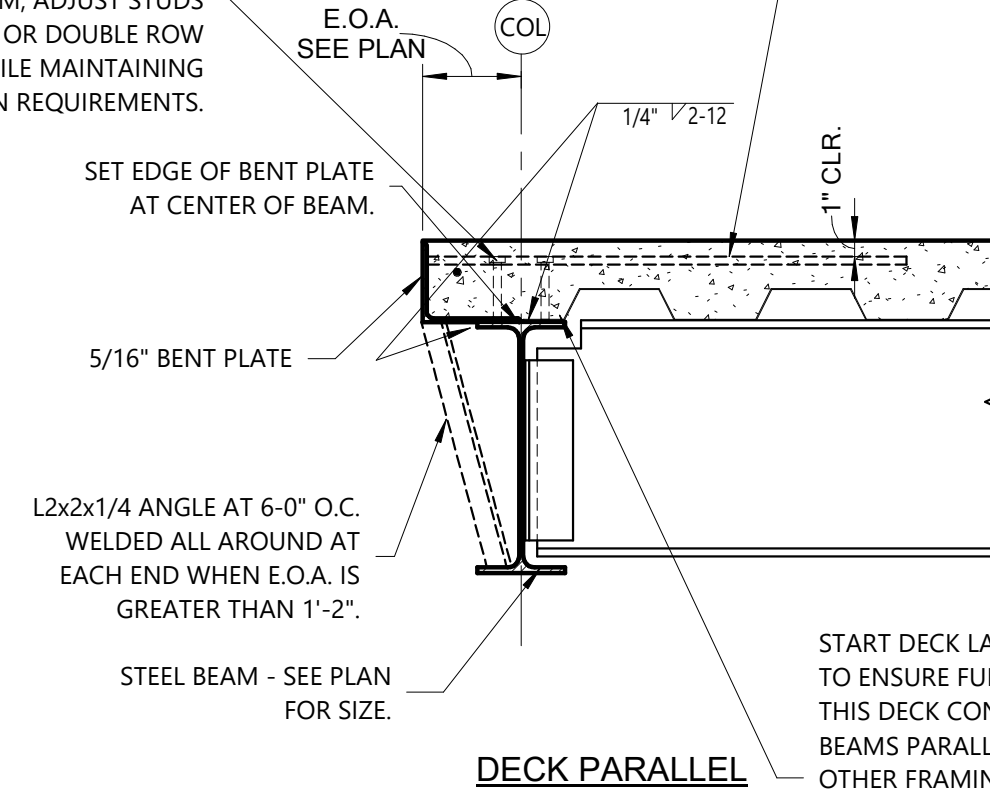


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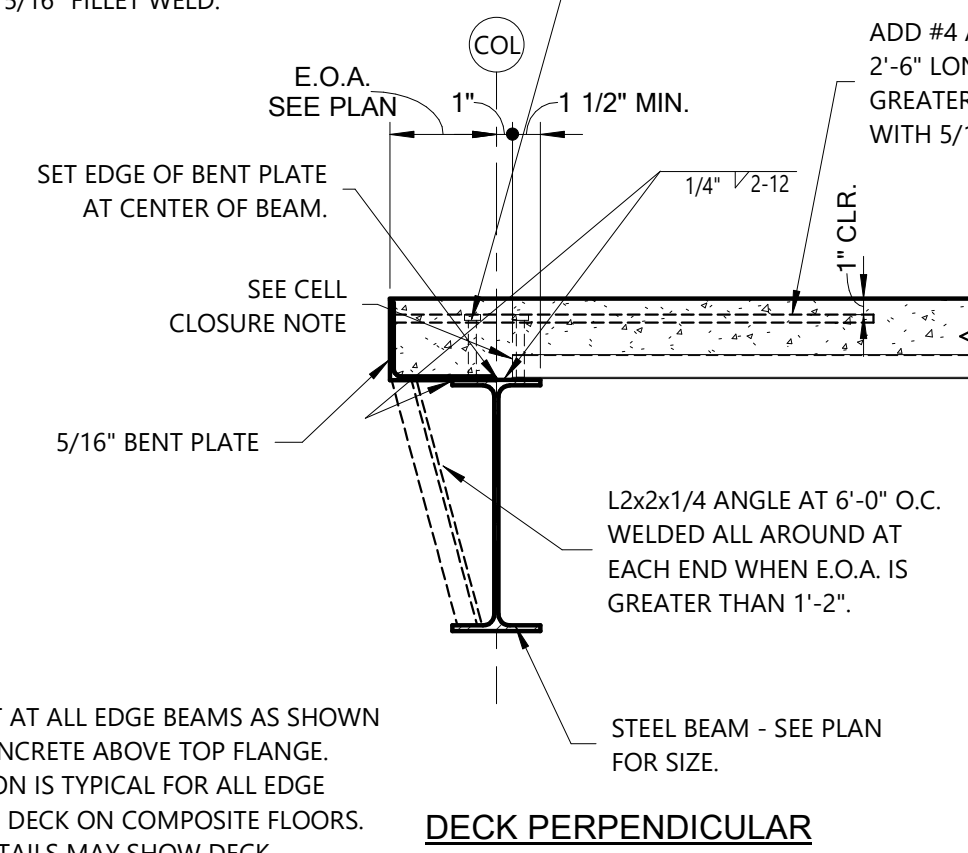
SEE "SHEAR STUD PLACEMENT DETAIL" FOR STUD LAYOUT. WHERE STUD COUNT WOULD INDICATE A SINGLE ROW OF STUDS ALONG CENTER OF BEAM, ADJUST STUDS TO STAGGERED OR DOUBLE ROW CONFIGURATION WHILE MAINTAINING DIMENSION REQUIREMENTS.



START DECK LAYOUT AT ALL EDGE BEAMS AS SHOWN TO ENSURE FULL CONCRETE ABOVE TOP FLANGE. THIS DECK CONDITION IS TYPICAL FOR ALL EDGE BEAMS PARALLEL TO DECK ON COMPOSITE FLOORS. OTHER FRAMING DETAILS MAY SHOW DECK CONDITION INCORRECTLY DUE TO LIMITATIONS IN DRAFTING SOFTWARE. CUT ANY VERTICAL PROTRUSIONS AT EDGE OF DECK AS REQUIRED FOR STUD INSTALLATION.

NOTES:
 PROVIDE CONTINUOUS EDGE MEMBER (ANGLE OR L-SHAPED BENT PLATE) AT ALL FLOOR EDGES. MINIMUM THICKNESS OF EDGE MEMBER IS 5/16". THE VERTICAL LEG DIMENSION SHALL MATCH THE FLOOR THICKNESS.
 PROVIDE FULL PENETRATION WELDED SPLICES AT ALL CORNER/INTERSECTION CONDITIONS.

SEE "SHEAR STUD PLACEMENT DETAIL" FOR STUD LAYOUT. WHERE STUD COUNT WOULD INDICATE A SINGLE ROW OF STUDS ALONG CENTER OF BEAM, ADJUST STUDS TO STAGGERED OR DOUBLE ROW CONFIGURATION WHILE MAINTAINING DIMENSION REQUIREMENTS.



CELL CLOSURE NOTE:
 CLOSURE PIECES AT DECK SHALL NOT BE CONTINUOUS AND SHALL ONLY BE PLACED AT EACH CELL. CUT CLOSURE PIECES TO NOT PROTRUDE BEYOND EDGE OF CELLS.

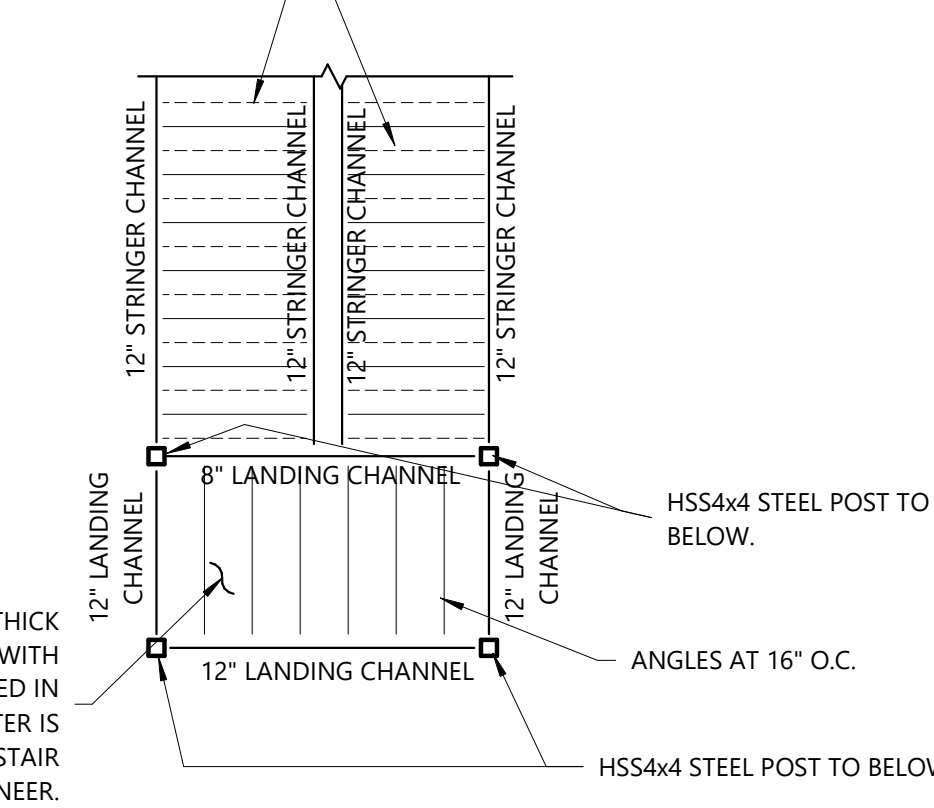
1 Typical Slab Edge Detail With Composite Beams

1" = 1'-0"

2 Plan View Of Pre-Eng. Egress Stairs

1/4" = 1'-0"

STEEL TREAD/RISER PAN WITH ANGLE BELOW EACH TREAD WELDED TO STRINGERS (TYP.)



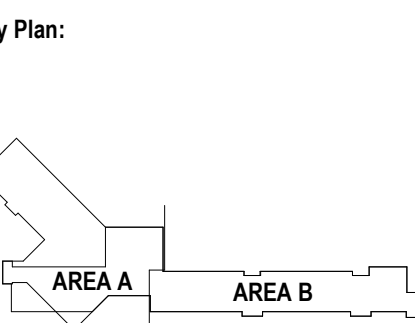
PROVIDE A MIN. OF 3" THICK CONCRETE LANDING REIN. WITH WWF 4x4 W4.0/W4.0 CENTERED IN CONCRETE, UNLESS GREATER IS REQUIRED BY ARCH. OR STAIR ENGINEER.

EGRESS STAIR

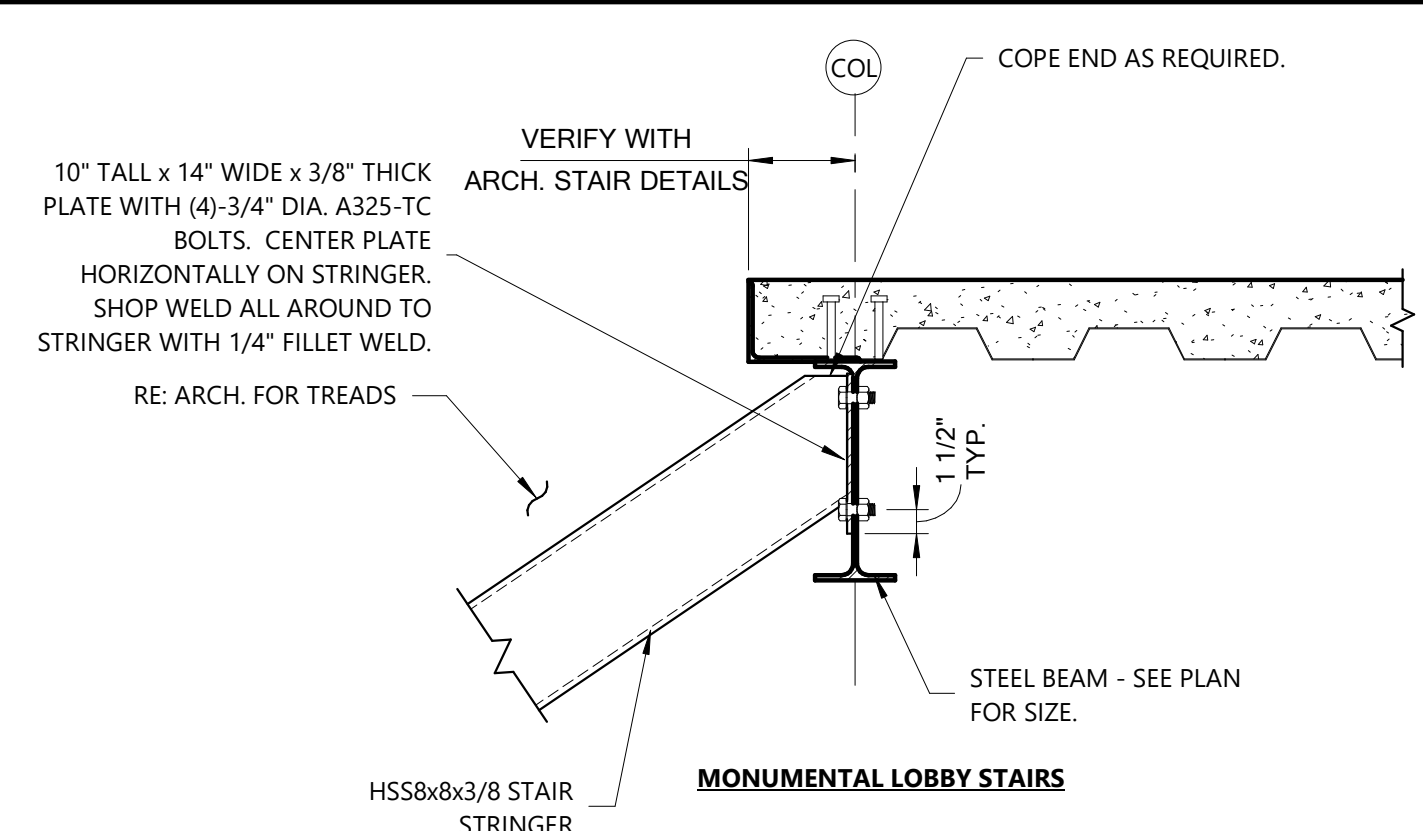
NOTES:
 DESIGN STAIRS FOR 100 ps.f. LIVE LOAD AND TREADS FOR 300lbs. CONCENTRATED LOAD PER IBC 2021.
 SEE GENERAL NOTES FOR MORE INFO. ON STAIRS.
 RE: ARCH. FOR EXACT GEOMETRY AND OTHER REQUIREMENTS. COMPLY WITH ALL AESTHETIC REQUIREMENTS INDICATED BY ARCH.
 PROVIDE FULL-PEN WELDED SPLICES BETWEEN LANDING CHANNEL WHEN REQUIRED FOR STABILITY. NOTCH STRINGERS AS REQUIRED TO EXTEND STRINGERS UNDER LANDINGS AS REQUIRED FOR STABILITY.
 ANY FLOOR LANDING AREA AT STAIR THAT IS NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE DESIGNED AND PROVIDED BY THE PRE-ENGINEERED METAL STAIR SUPPLIER.
 ALL STAIR AND RAIL SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE STAIR ENGINEER.
 PROVIDE THREE-DIMENSIONAL MODEL IN IFC FORMAT FOR REVIEW WITH SHOP DRAWINGS FOR ALL STAIRS.



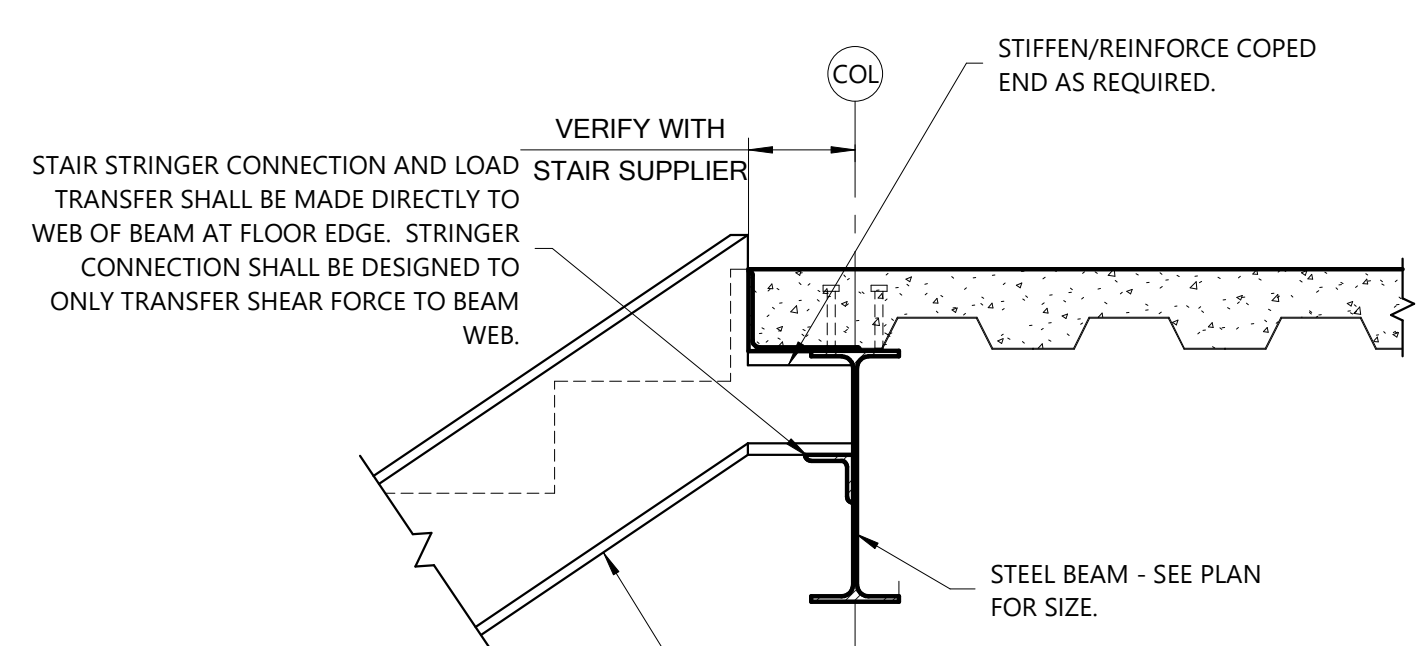
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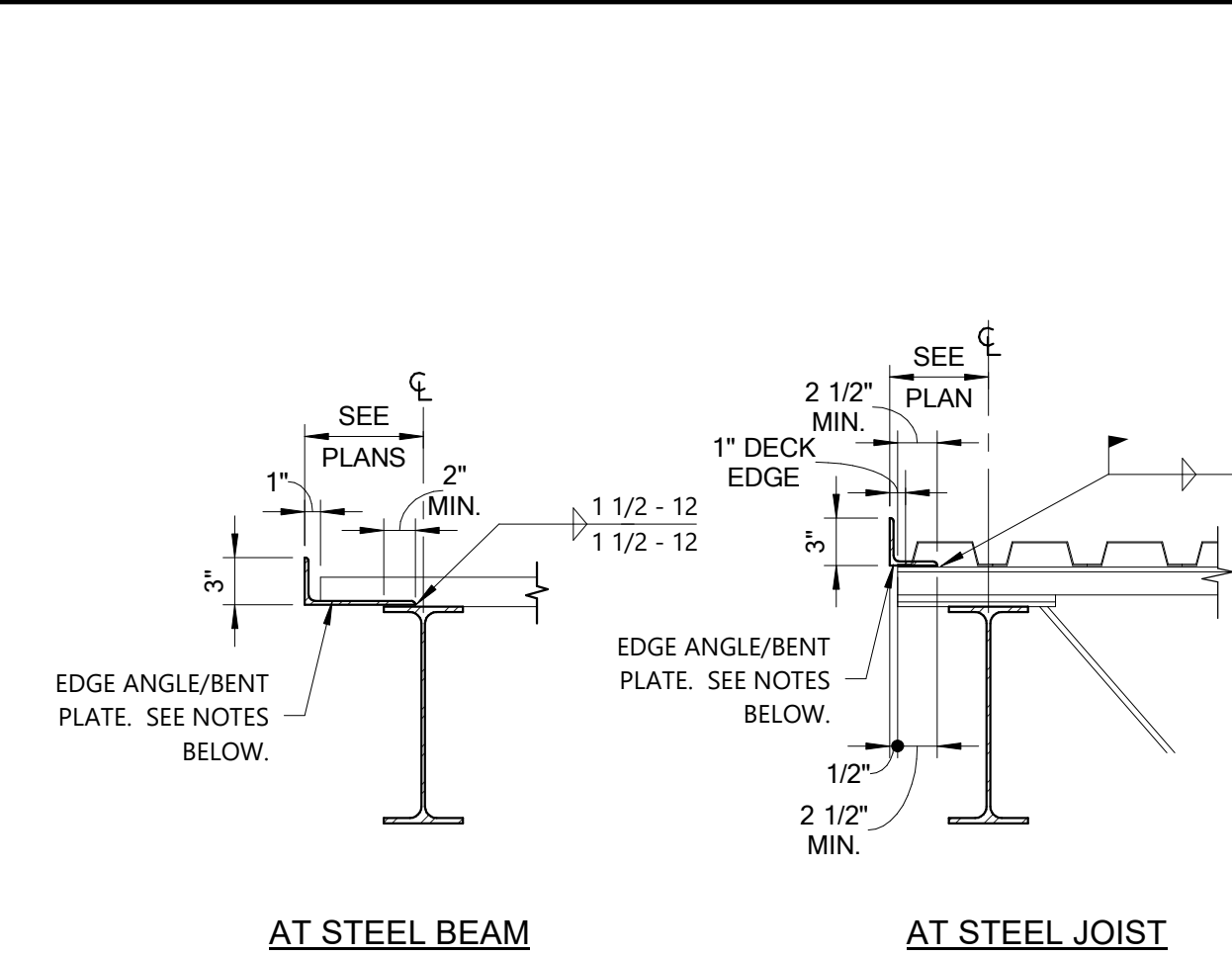
MONUMENTAL LOBBY STAIRS



EGRESS STAIR

3 Stair Stringer Detail

1" = 1'-0"



NOTES:
 PROVIDE CONTINUOUS EDGE MEMBER (ANGLE OR BENT PLATE) AT ALL ROOF EDGES, UNLESS NOTED OTHERWISE.
 MINIMUM THICKNESS OF EDGE MEMBER IS 1/4".
 PROVIDE 5"x2"x3/8" SPLICE PLATE AT ALL JOINTS IN THE EDGE MEMBER. CENTER SPLICE PLATE ON JOINT AND WELD BOTH SIDES.
 ALL EDGE MEMBER SPLICES SHALL OCCUR CENTERED ON A JOIST OR A COLUMN.

4 Typical Edge Angle/Bent Plate At Roof

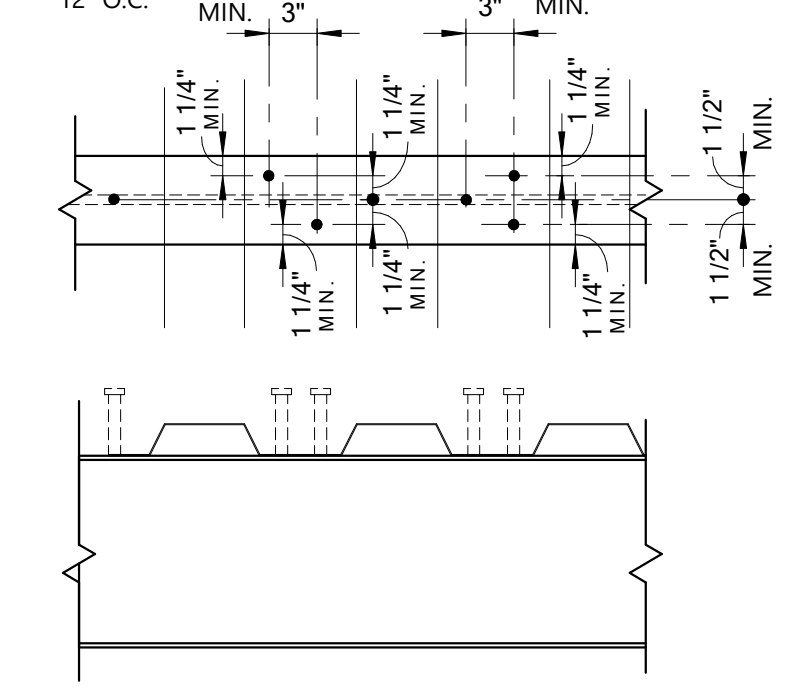
1" = 1'-0"

SHEAR STUD PLACEMENT FOR COMPOSITE STEEL BEAMS

DECK PERPENDICULAR TO SUPPORTS

CASE 1 - FEWER STUDS THAN VALLEYS
 EXAMPLE: W14x22 (20) -- (20) INDICATES NUMBER OF STUDS
 PROCEDURE: PLACE A STUD IN ALTERNATING FLUTES FOR ENTIRE LENGTH OF BEAM. PLACE REMAINING STUDS IN FLUTES NOT ALREADY HAVING A STUD, STARTING NEAR BEAM ENDS AND CONTINUING TOWARD BEAM CENTER. MAXIMUM SPACING ALLOWED IS 12" O.C. SEE DETAIL BELOW FOR APPROXIMATE LOCATION OF SINGLE STUDS IN FLUTES.

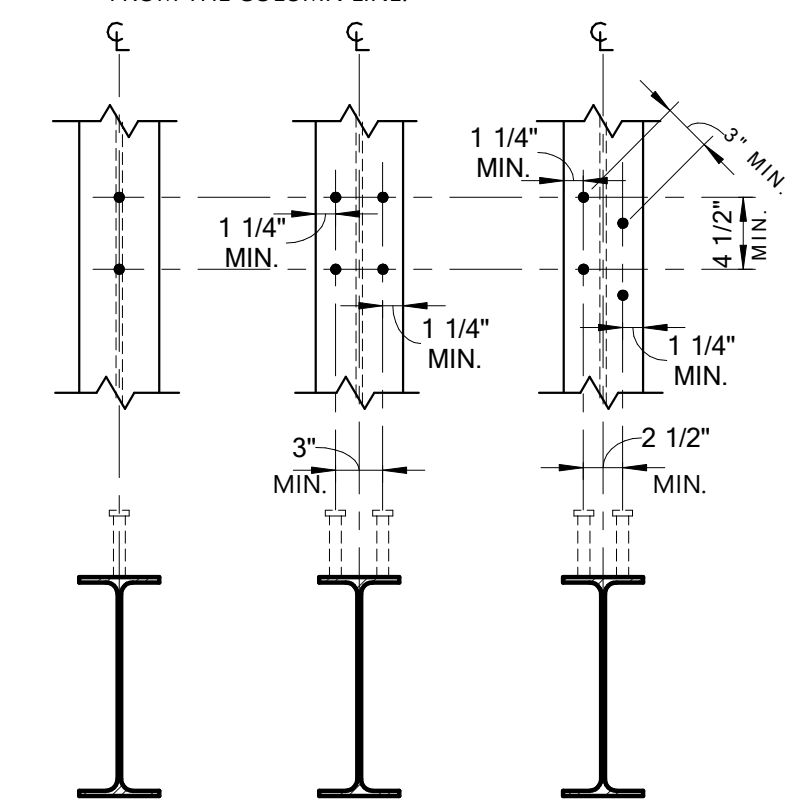
CASE 2 - MORE STUDS THAN VALLEYS
 EXAMPLE: W14x22 (20) -- (20) INDICATES NUMBER OF STUDS
 PROCEDURE: PLACE A STUD IN AVAILABLE FLUTES. IF STUDS ENDS REMAIN, PLACE A SECOND STUD IN FLUTES NEAR BEAM ENDS AND CONTINUE PLACING A SECOND STUD IN EACH FLUTE TOWARD BEAM CENTER. IF STUDS REMAIN, PLACE A THIRD STUD IN FLUTES NEAR BEAM ENDS AND CONTINUE PLACING A THIRD STUD IN EACH FLUTE TOWARD BEAM CENTER. SEE DETAIL BELOW FOR APPROXIMATE LOCATION FOR TWO OR THREE STUDS IN FLUTES. MAXIMUM SPACING ALLOWED IS 12" O.C.



DECK PARALLEL TO SUPPORTS

CASE 3 - ALL DECK PARALLEL TO SUPPORTS
 EXAMPLE: W21x44 (45) -- (45) INDICATES NUMBER OF STUDS ON BEAM TO BE EQUALLY SPACED ALONG BEAM LENGTH
 PROCEDURE: PLACE A SINGLE ROW OF STUDS ALONG GIRDER AT EQUAL SPACING. IF SPACING IS LESS THAN 4 1/2", USE DOUBLE ROW AS REQUIRED. STUD SPACING NOT TO EXCEED 12" O.C.

NOTE:
 GENERALLY, THE FIRST STUD IS PLACED 12" +/- FROM THE COLUMN LINE.



EDGE BEAM NOTE:
 STAGGERED OR DOUBLE ROW LAYOUT IS REQUIRED AT ALL COMPOSITE EDGE BEAMS. SEE "TYPICAL SLAB EDGE DETAIL WITH COMPOSITE BEAMS".

5 Shear Stud Placement Detail

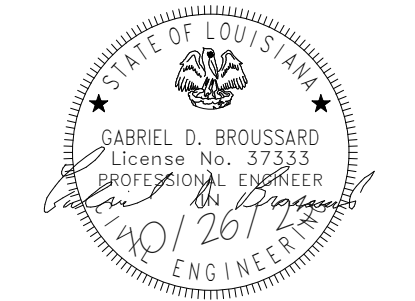
1" = 1'-0"



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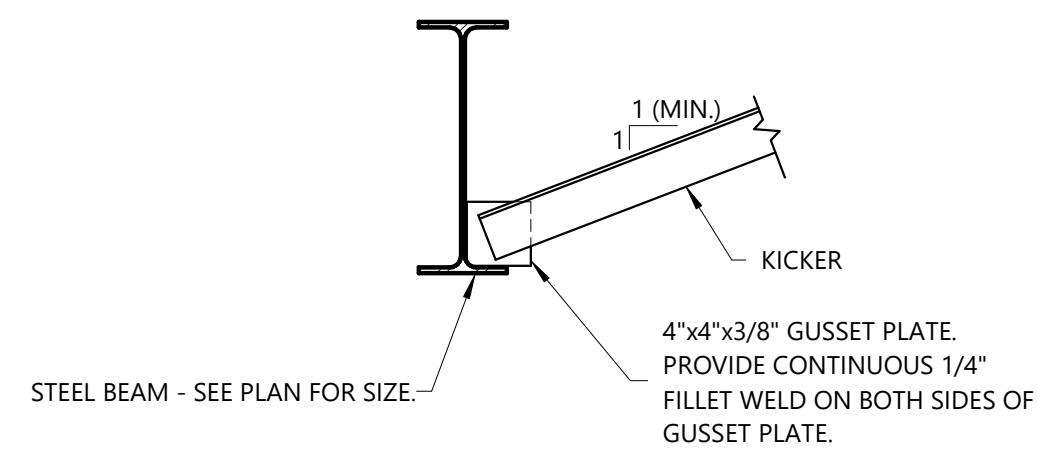
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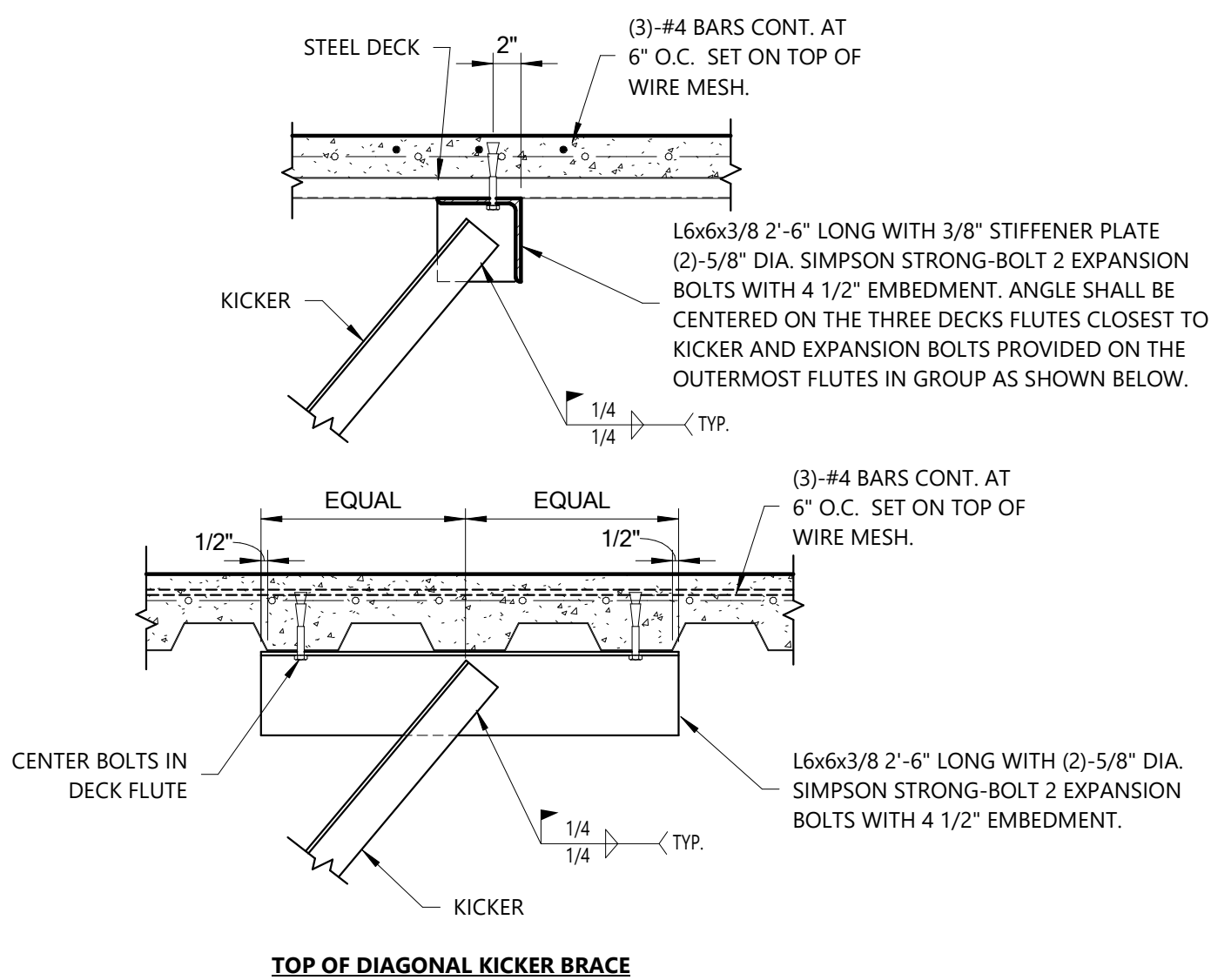


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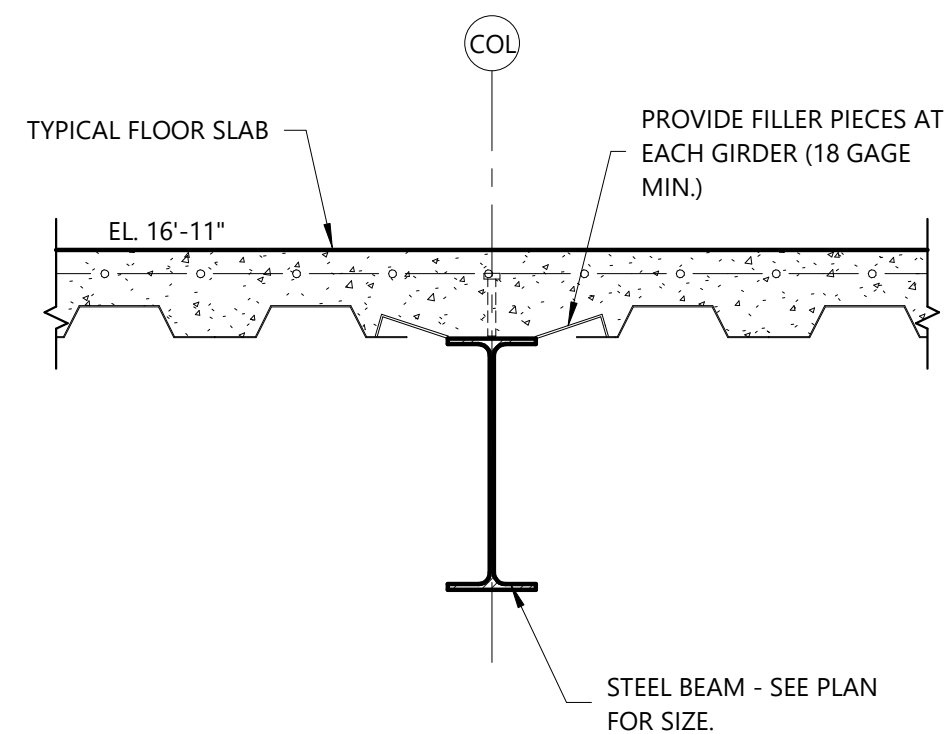


BOTTOM OF DIAGONAL KICKER BRACE

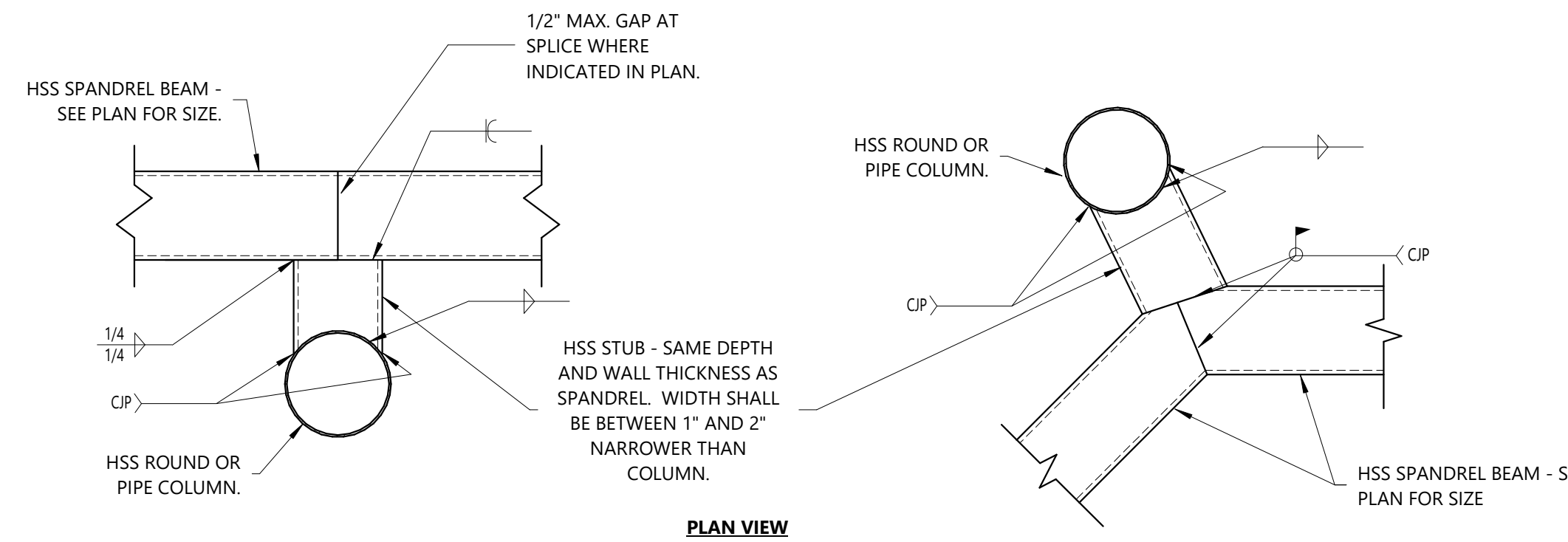


TOP OF DIAGONAL KICKER BRACE

1 Typical Diagonal Brace Connections
1" = 1'-0"



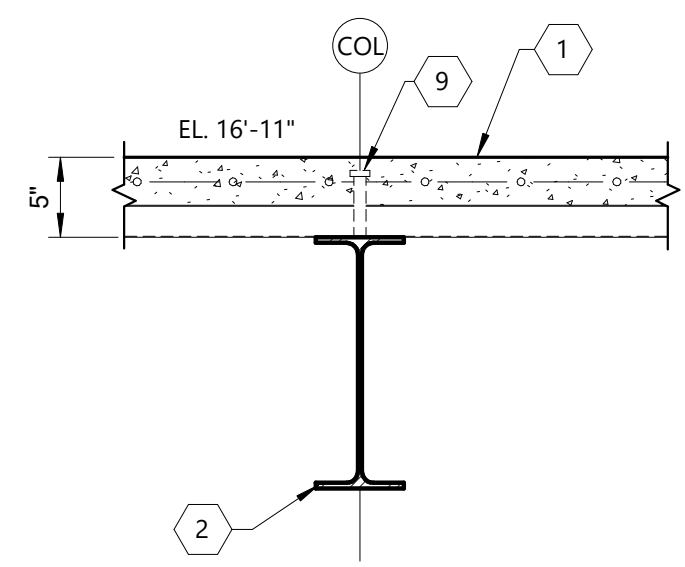
2 Girder Filler Deck Parallel To Beam
1" = 1'-0"



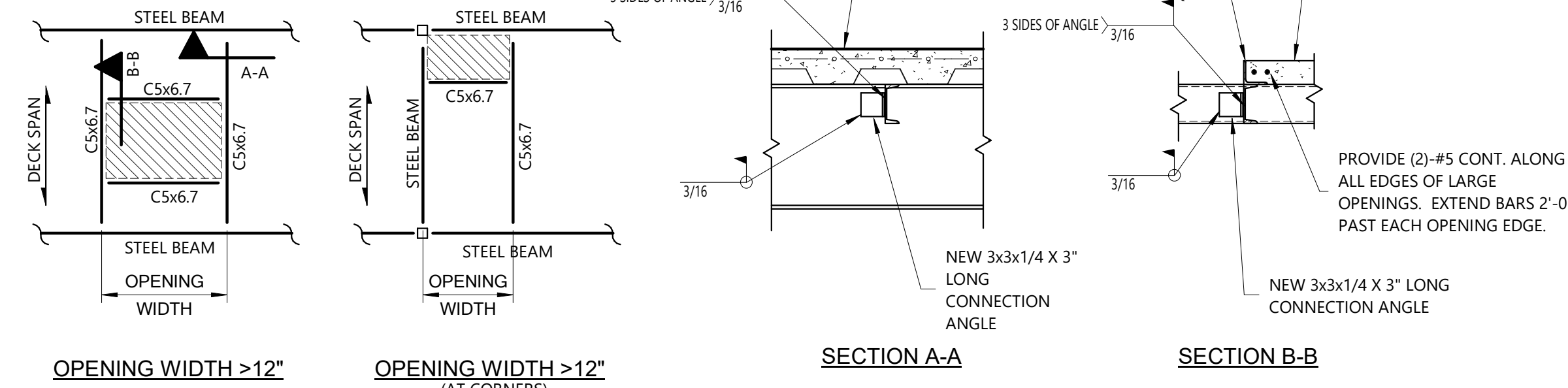
PLAN VIEW

3 HSS Spandrel Beam To Round Column
1 1/2" = 1'-0"

NOTE:
THIS DETAIL APPLIES AT ALL REQUIRED OPENINGS GREATER THAN 12" IN WIDTH, BUT LESS THAN 60" IN WIDTH. GENERAL CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND NUMBER OF REQUIRED OPENINGS. CONTACT ENGINEER FOR OPENINGS LARGER THAN 60" IN WIDTH.
GENERAL CONTRACTOR SHALL PROVIDE SUBMITTAL WITH LAYOUT OF ALL LARGE FLOOR OPENINGS TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

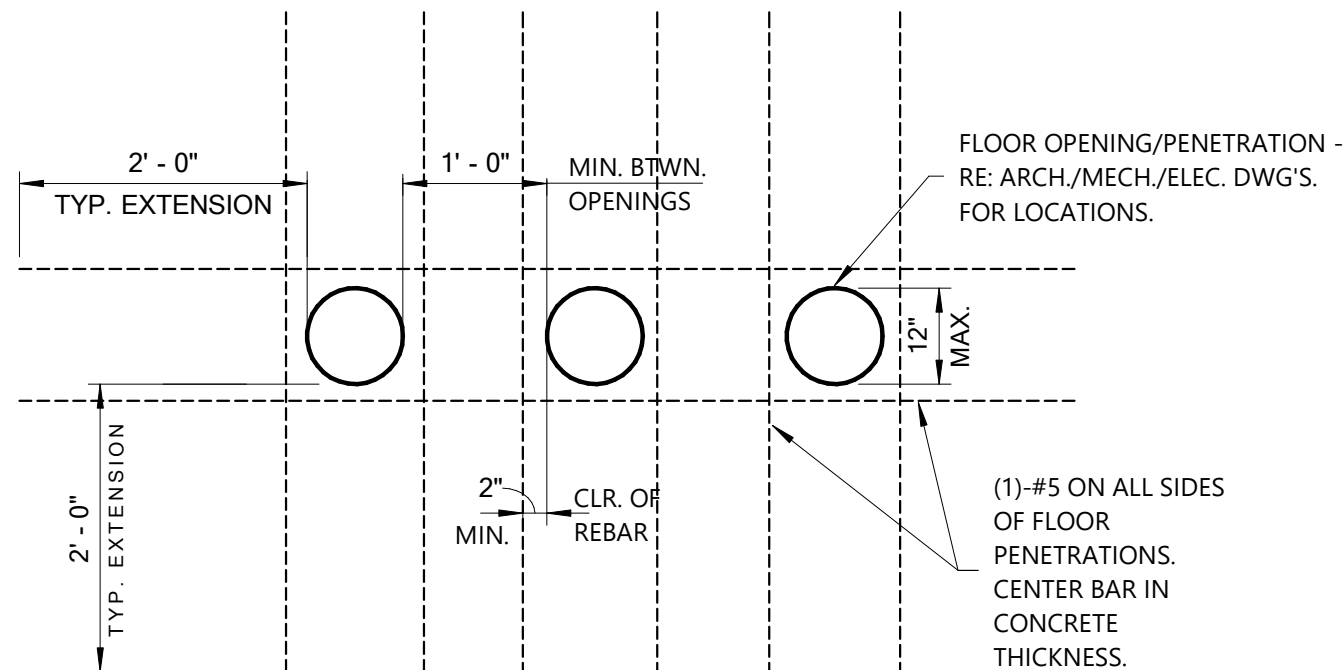


4 Interior Floor Beam Detail
1" = 1'-0"



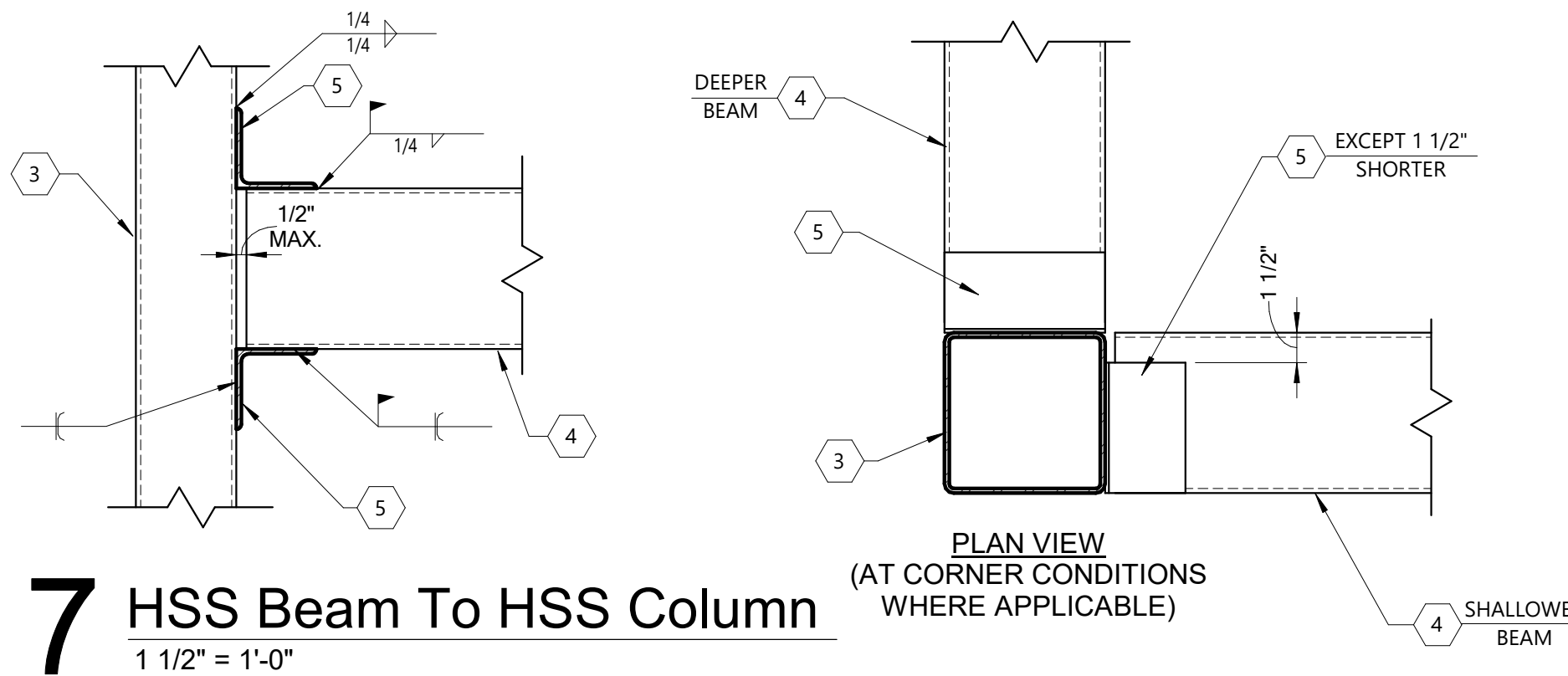
5 Large Floor Openings
3/4" = 1'-0"

NOTE:
THIS DETAIL IS APPLICABLE FOR ALL FLOOR PENETRATIONS (INCLUDING ELEC. AND MECH.) GREATER THAN 2" IN DIA. IF 12" SPACING CANNOT BE OBTAINED, FRAME AROUND PENETRATIONS AS A SINGLE OPENING PER DETAIL "LARGE FLOOR OPENINGS".



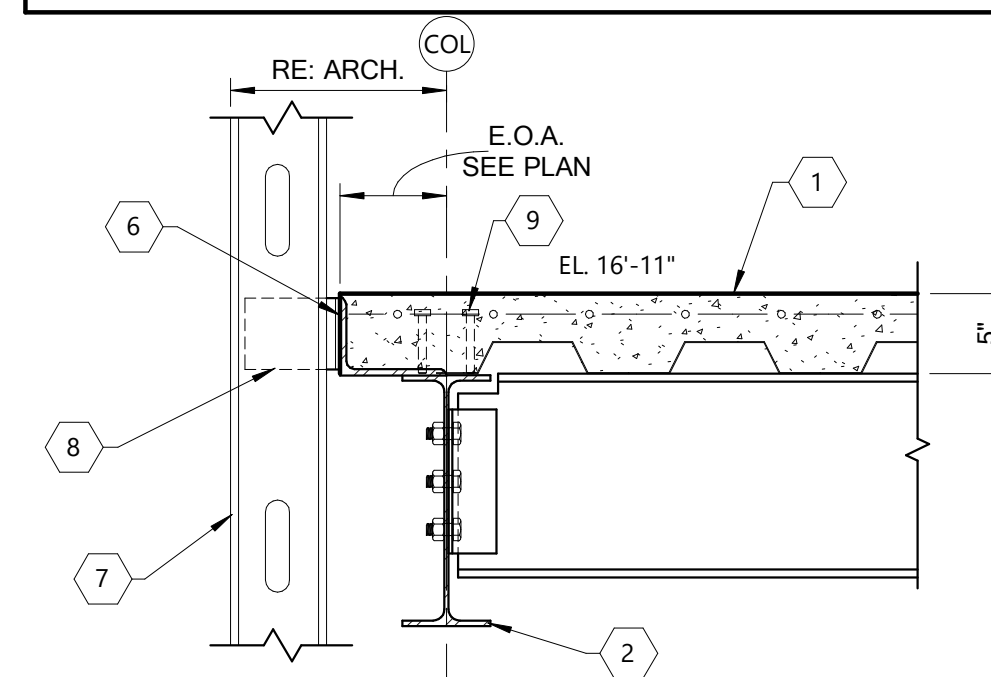
6 Small Openings In Elevated Floor
3/4" = 1'-0"

NOTE:
PROVIDE DIRECTLY WELDED ALL AROUND CONNECTION AT ALL EXPOSED HSS BEAM TO COLUMN CONNECTIONS IN LIEU OF THIS DETAIL.



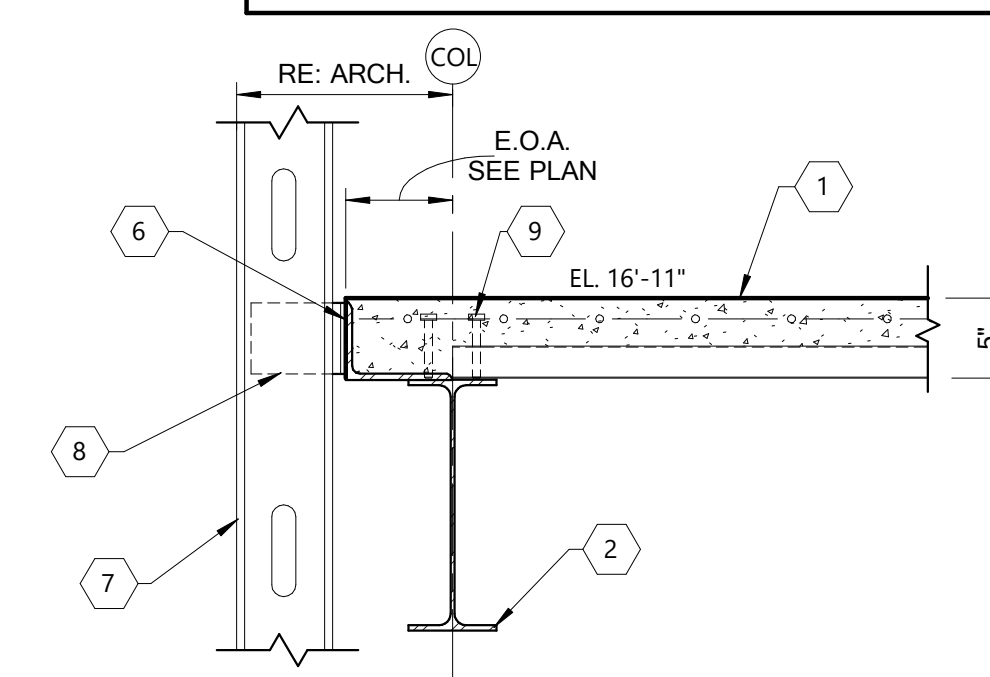
7 HSS Beam To HSS Column
1 1/2" = 1'-0"

RE: ARCH. FOR EXACT EXTERIOR WALL STUD CONFIGURATION. WHERE DOUBLE WALL CONDITIONS EXIST, PROVIDE INTERMITTENT HORIZONTAL STRUT MEMBERS AND/OR DIAGONALS AS REQUIRED TO TRANSFER GRAVITY AND WIND LOADS FROM ADDITIONAL STUD TO PRIMARY WALL STUD FOR LOAD TRANSFER TO STRUCTURE. PROVIDE HORIZONTAL STRUT CONNECTION (WITH VERTICAL SLIP) FROM PRIMARY STUD TO STRUCTURE IN LIEU OF CLIP SHOWN IF REQUIRED BY DISTANCE.



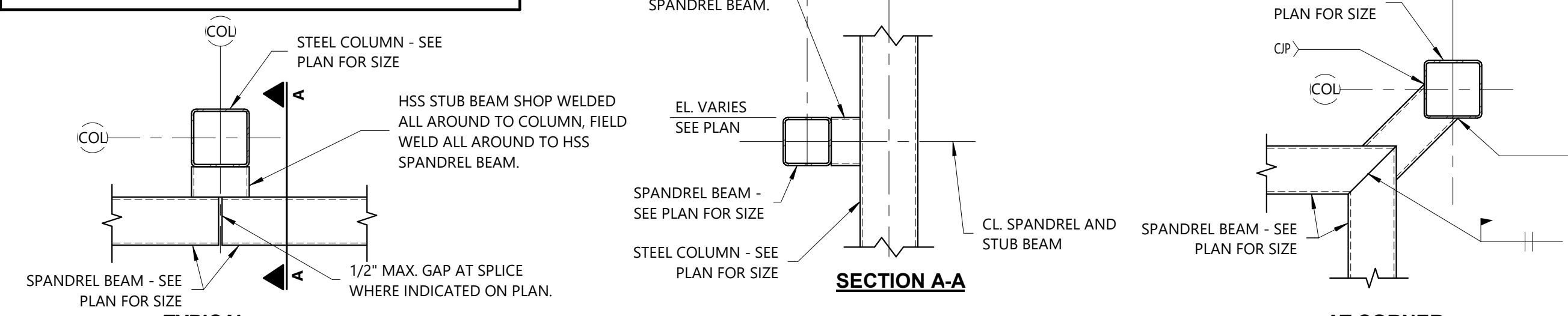
8 Floor Edge - Deck Parallel
1" = 1'-0"

RE: ARCH. FOR EXACT EXTERIOR WALL STUD CONFIGURATION. WHERE DOUBLE WALL CONDITIONS EXIST, PROVIDE INTERMITTENT HORIZONTAL STRUT MEMBERS AND/OR DIAGONALS AS REQUIRED TO TRANSFER GRAVITY AND WIND LOADS FROM ADDITIONAL STUD TO PRIMARY WALL STUD FOR LOAD TRANSFER TO STRUCTURE. PROVIDE HORIZONTAL STRUT CONNECTION (WITH VERTICAL SLIP) FROM PRIMARY STUD TO STRUCTURE IN LIEU OF CLIP SHOWN IF REQUIRED BY DISTANCE.



9 Floor Edge - Deck Perpendicular
1" = 1'-0"

HSS STUB BEAM NOTES:
DEPTH OF STUB BEAM SHALL MATCH DEPTH OF HSS SPANDREL BEAM.
WIDTH OF STUB BEAM SHALL MATCH WIDTH OF HSS COLUMN.
WELD STUB BEAM ALL AROUND TO SPANDREL BEAM AND COLUMN WITH FLARE BEVEL GROOVE WELD OR 1/4" FILLET WELD AS APPLICABLE.
MINIMUM WALL THICKNESS OF STUB BEAM SHALL BE 3/8".



10 Spandrel To Column
1" = 1'-0"

Keynote Legend

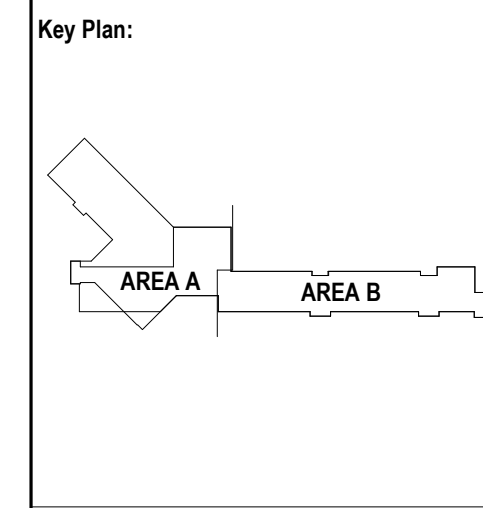
- 5" LIGHTWEIGHT CONCRETE ON 2VL1 18 GAGE METAL DECK. REINFORCE WITH WWF 4x4 W4.0/W4.0 CENTERED IN SLAB.
- STEEL BEAM - SEE PLAN FOR SIZE.
- STEEL COLUMN - SEE PLAN FOR SIZE.
- HSS BEAM - SEE PLAN FOR SIZE AND ELEVATION.
- L4x4x1/2. SAME LENGTH AS WIDTH OF COLUMN OR BEAM, WHICHEVER IS GREATER. SHOP WELD EACH ANGLE ALL AROUND TO COLUMN WITH 1/4" FILLET WELD TOP AND BOTTOM AND FLARE BEVEL GROOVE WELD ON SIDES. FIELD WELD 3 SIDES OF EACH ANGLE TO BEAM WITH 1/4" FILLET WELD AND FLARE BEVEL GROOVE WELD. DO NOT SHOP WELD EITHER ANGLE TO BEAM.
- CONTINUOUS EDGE MEMBER AROUND PERIMETER OF FLOOR. SEE TYPICAL DETAIL ON SHEET S6.11 FOR MORE INFORMATION.
- COLD-FORMED METAL WALL STUDS DESIGNED BY COLD-FORMED METAL FRAMING SUPPLIER. RE: ARCH. DRAWINGS FOR STUD DEPTH. SEE SPECIFICATION 05 4000 FOR MORE INFORMATION.
- COLD-FORMED METAL SLIP CONNECTION DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. ATTACH TO STRUCTURE AS SHOWN AND PROVIDE VERTICAL SLIP PER SPECIFICATIONS. AT LOCATIONS WHERE CONNECTION IS INDICATED TO WEB OF STEEL BEAM, THE CONNECTION SHALL BE MADE AS CLOSE TO TOP FLANGE OF BEAM AS POSSIBLE.
- 3/4" DIA. X 4" LONG HEADED SHEAR STUDS. SEE PLANS FOR NUMBER REQUIRED.



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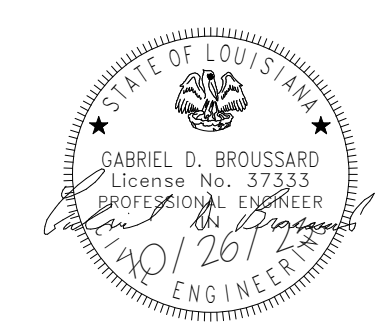
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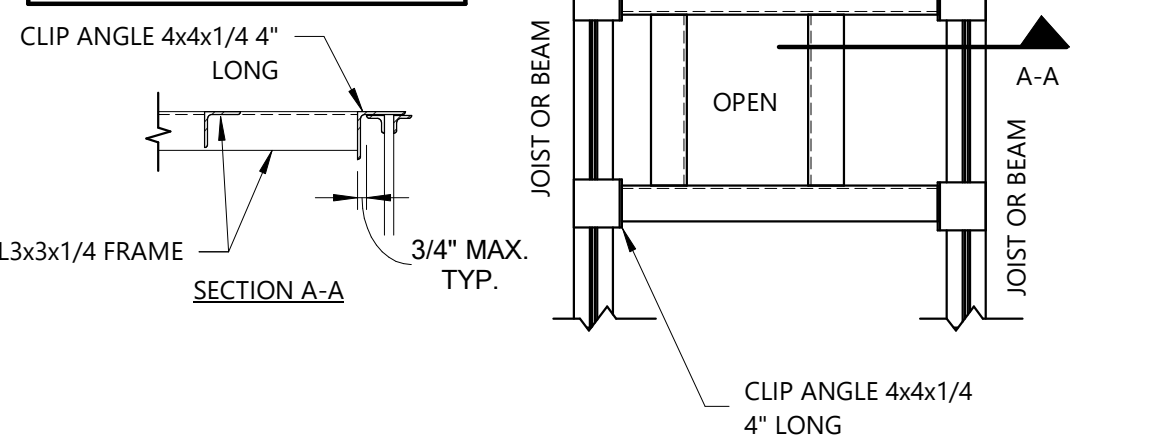


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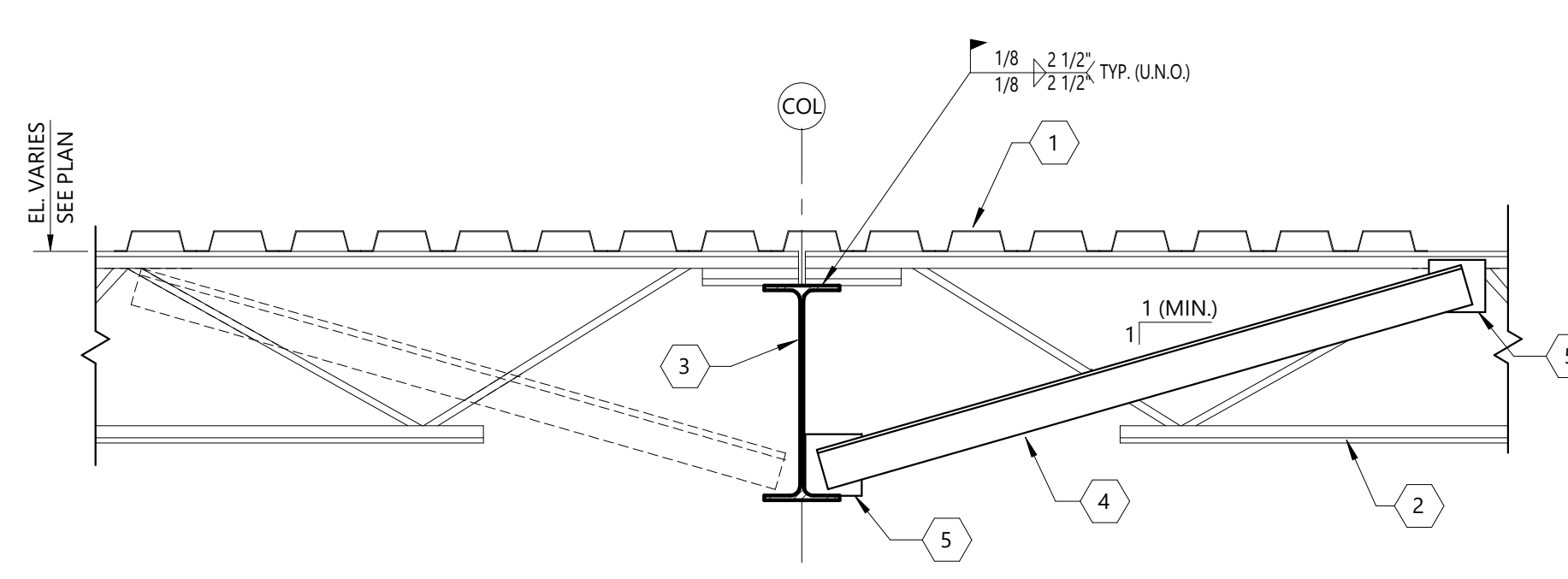
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S6.12
North

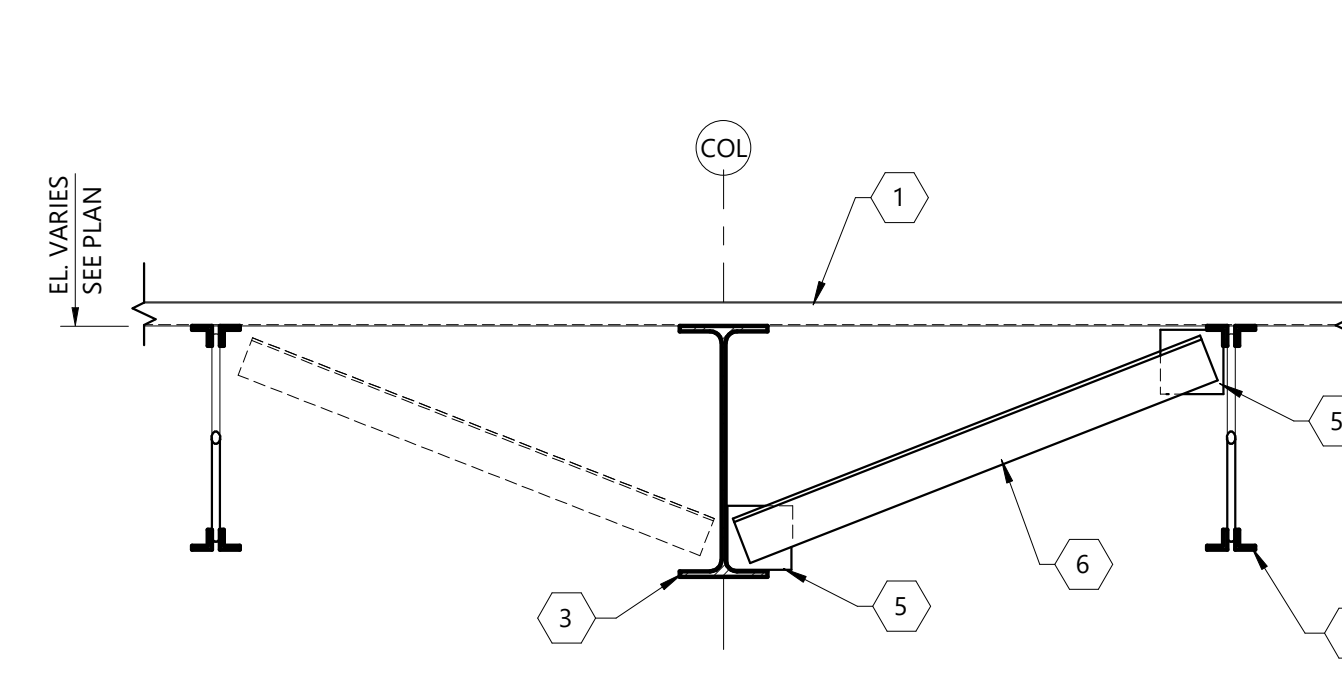
RE: ARCH. & MECH. FOR SIZE AND LOCATION. SIZE OPENING FOR SUMP PAN SUPPLIED AT ROOF DRAINS. PROVIDE AT ALL OPENINGS LARGER THAN 9" DIA. AND AT ROOF DRAINS.



1 Typical Opening Detail At Joist
3/4" = 1'-0"



2 Typical Interior Joist Detail
N.T.S.



3 Interior Beam At Bracing
1" = 1'-0"

Keynote Legend

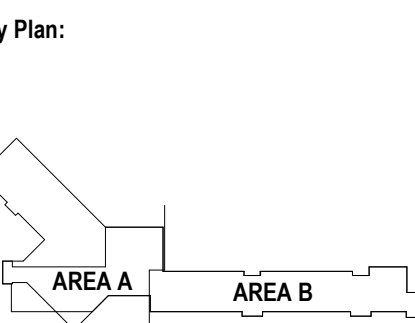
- 1 GALVANIZED METAL ROOF DECK. RE: PLANS AND DECK FASTENER TABLE FOR INFORMATION.
- 2 STEEL JOIST - SEE PLAN FOR SIZE.
- 3 STEEL BEAM - SEE PLAN FOR SIZE.
- 4 BRACE ALL INTERIOR BEAMS TO JOISTS WITH L2 1/2x2 1/2x3/16 BRACE. BRACE AT EVERY OTHER JOIST LINE. STAGGER BRACES SIDE TO SIDE OF EACH BRACED JOIST LINE. FIELD WELD EACH END 3 SIDES.
- 5 4"x4"x1/4" GUSSET PLATE. FIELD WELD TO BEAM OR JOIST TOP CHORD AT PANEL POINT LOCATION. PROVIDE CONTINUOUS 1/8" FILLET WELD ON BOTH SIDES OF GUSSET PLATE.
- 6 BRACE ALL ROOF BEAMS PARALLEL TO JOIST WITH L2 1/2x2 1/2x3/16 AT 8'-0" O.C. MAX. SPACING. FIELD WELD EACH END 3 SIDES TO GUSSET PLATE. STAGGER BRACE SIDE TO SIDE OF BEAM AT INTERIOR BEAMS.
- 7 BRACE ALL EDGE BEAMS TO EVERY OTHER JOIST USING AN L2 1/2x2 1/2x3/16. FIELD WELD EACH END 3 SIDES.
- 8 CONTINUOUS EDGE MEMBER PER "TYPICAL EDGE ANGLE/BENT PLATE AT ROOF" DETAIL.
- 9 COLD-FORMED METAL WALL STUDS DESIGNED BY COLD-FORMED METAL FRAMING SUPPLIER. RE: ARCH. DRAWINGS FOR STUD DEPTH. SEE SPECIFICATION 05 4000 FOR MORE INFORMATION.
- 10 COLD-FORMED METAL SLIP CONNECTION DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. ATTACH TO STRUCTURE AS SHOWN AND PROVIDE VERTICAL SLIP PER SPECIFICATIONS. AT LOCATIONS WHERE CONNECTION IS INDICATED TO WEB OF STEEL BEAM, THE CONNECTION SHALL BE MADE AS CLOSE TO TOP FLANGE OF BEAM AS POSSIBLE.
- 11 STEEL COLUMN - SEE PLAN FOR SIZE.
- 12 3/8" STIFFENER PLATE BOTH SIDES OF WEB.
- 13 3/4" PLATE WITH (4) 3/4" DIA. A325-TC BOLTS.
- 14 5" LIGHTWEIGHT CONCRETE ON 2VLI 18 GAGE METAL DECK. REINFORCE WITH WWF 4x4 W4.0/W4.0 CENTERED IN SLAB.
- 15 CONTINUOUS EDGE MEMBER AROUND PERIMETER OF FLOOR. SEE TYPICAL DETAIL ON SHEET S6.11 FOR MORE INFORMATION.
- 16 CONTINUOUS HSS5x2 1/2x1/8 COLLECTOR MEMBERS BETWEEN ALL JOISTS AT BEAMS INDICATED ON PLAN. PROVIDE 9" GAP BETWEEN COLLECTORS AT EACH JOIST. CENTER COLLECTOR MEMBER ON BEAM. HSS COLLECTOR MEMBER IS NOT REQUIRED BETWEEN JOISTS WITH CENTER-TO-CENTER SPACING OF 1'-6" OR LESS.
- 17 FASTEN DECK TO HSS COLLECTORS WITH #12 TEK SCREWS AT 4" O.C. MAX.
- 18 HSS BEAM - SEE PLAN FOR SIZE AND ELEVATION.
- 19 3/4" DIA. X 4" LONG HEADED SHEAR STUDS. SEE PLANS FOR NUMBER REQUIRED.



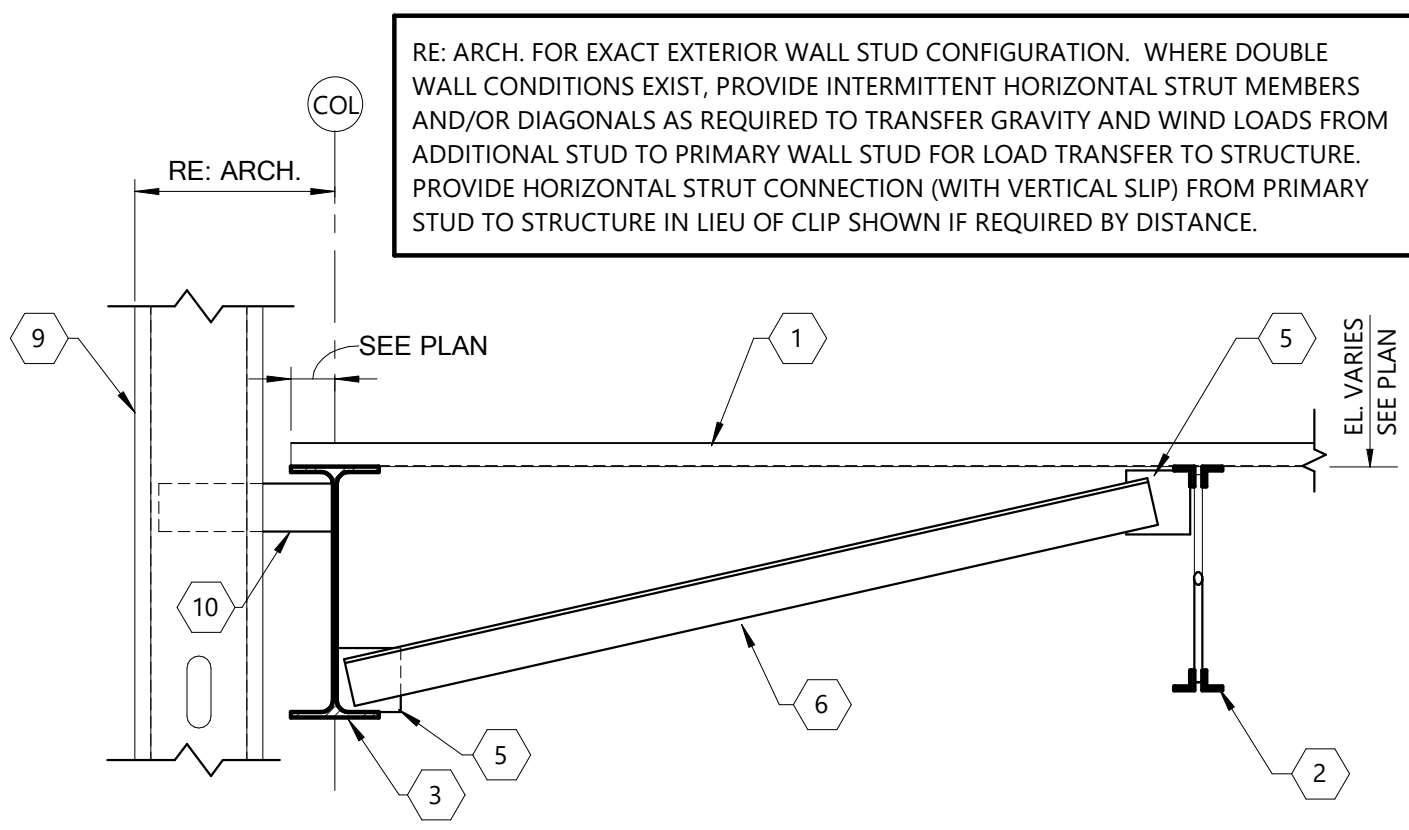
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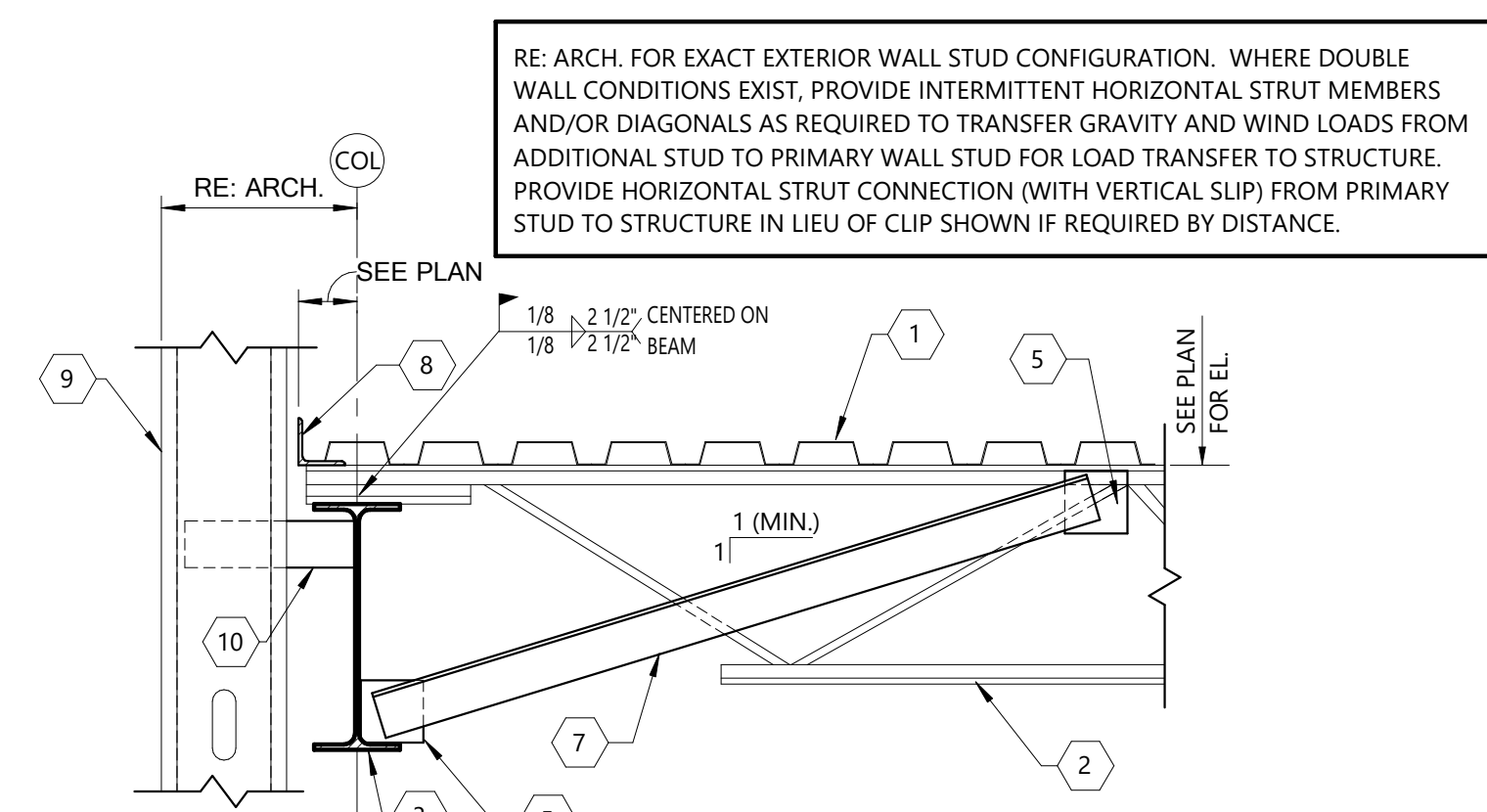
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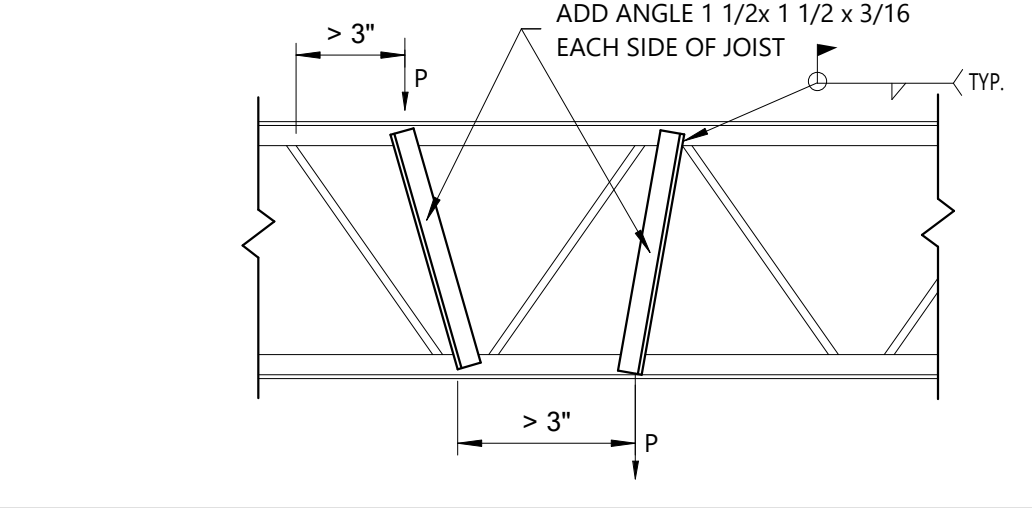
Consultants:



4 Typical Roof Edge Detail - Joists Parallel
1" = 1'-0"



5 Typical Roof Edge Detail - Joists Perpendicular
1" = 1'-0"



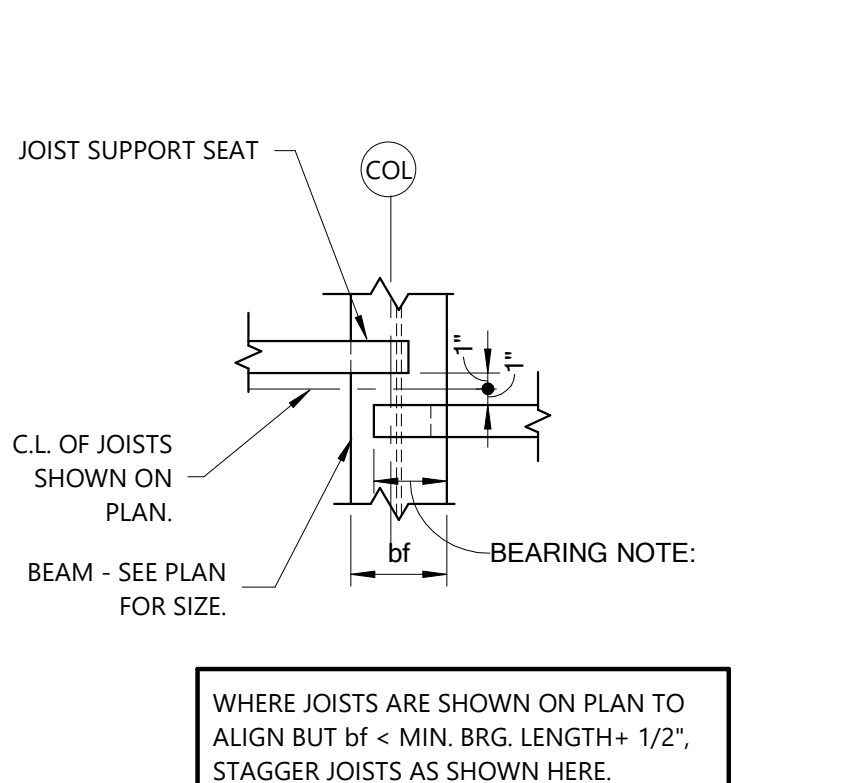
FIELD INSTALL ANGLE AT ALL CONCENTRATED LOADS "P" NOT OCCURRING WITHIN 3 INCHES OF A JOIST PANEL POINT.

ANGLES ARE NOT REQUIRED AT POINT LOADS OF 100 POUNDS OR SMALLER IF THE SUM OF ALL POINTS LOADS BETWEEN PANEL POINTS IS 100 POUNDS OR SMALLER.

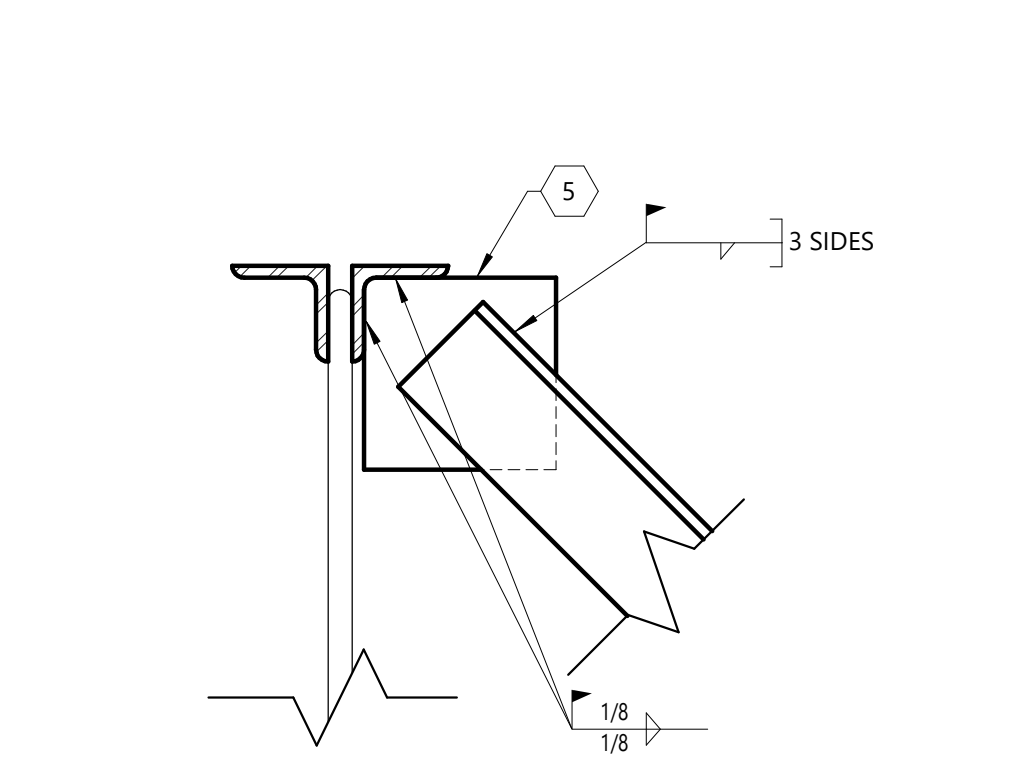
ALL ATTACHMENTS SHALL BE MADE CONCENTRIC TO THE CHORD. (I.E., DO NOT INDUCE TWISTING INTO CHORD.)

POINT LOADS SHALL NOT EXCEED 300 POUNDS UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS (E.G. MECHANICAL UNIT LOADINGS)

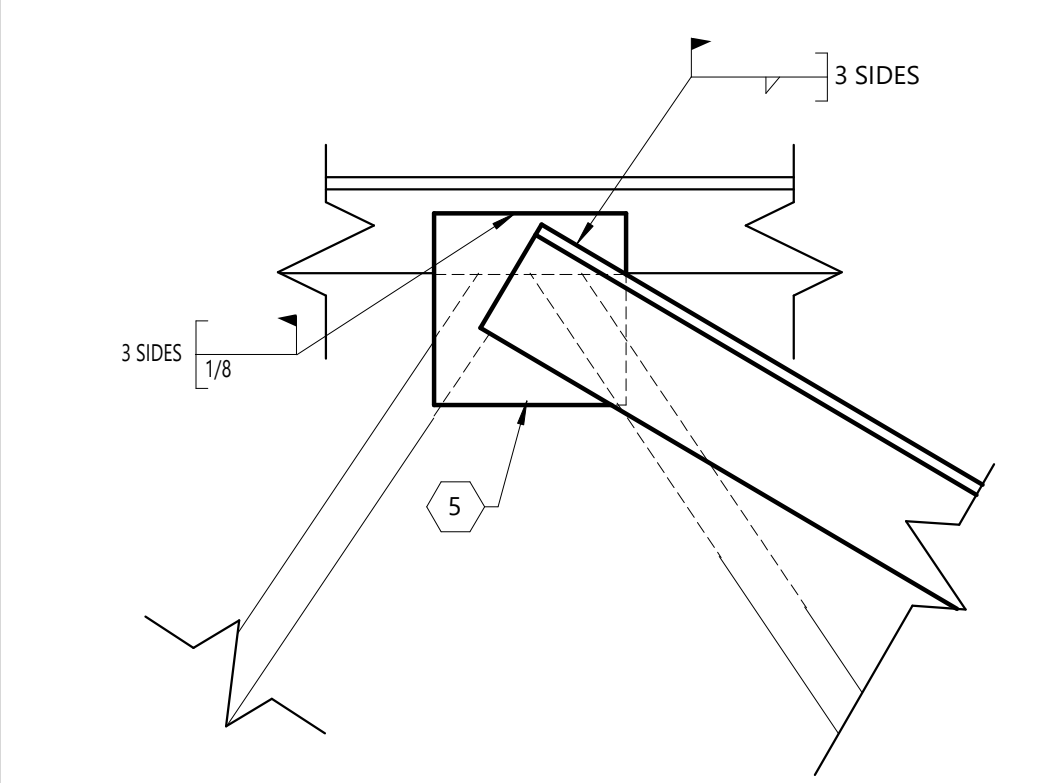
6 Joist Point Load Detail
1" = 1'-0"



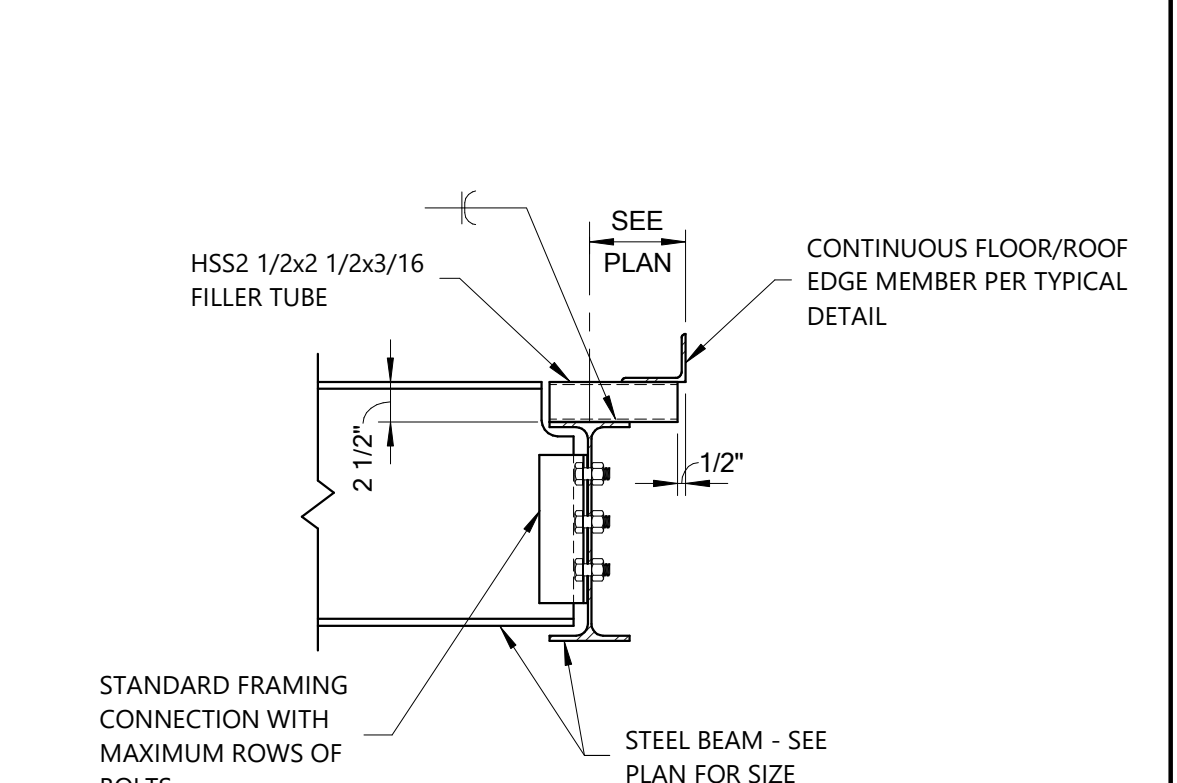
7 Staggered Joist Plan
1" = 1'-0"



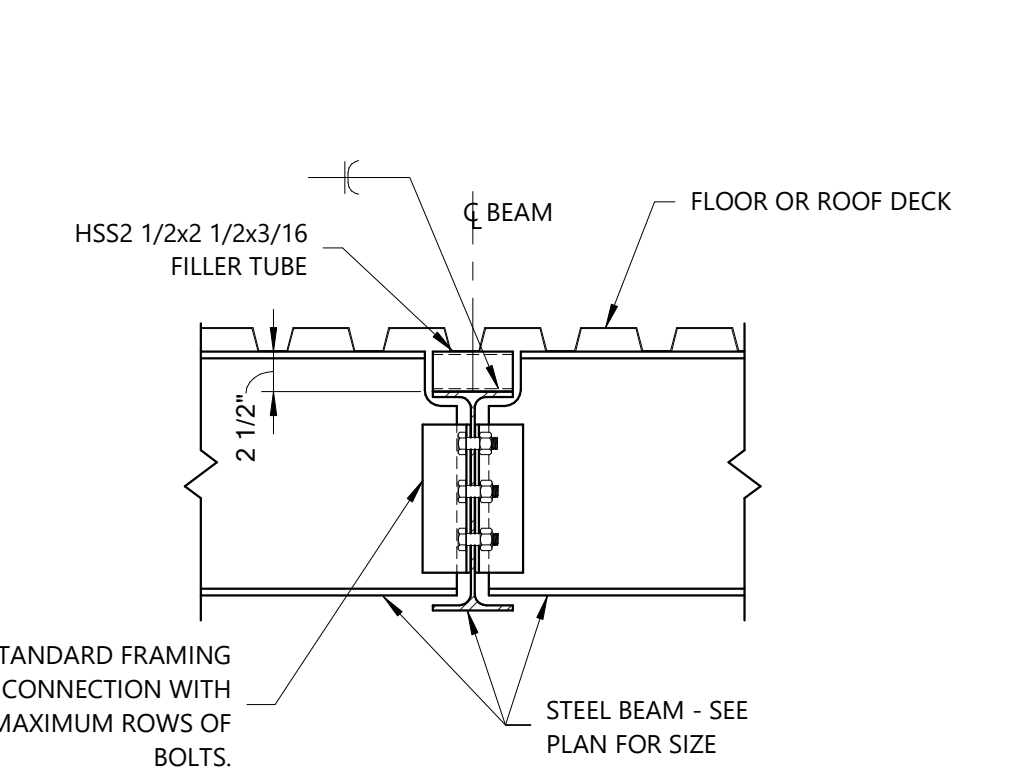
8 Brace To Joist - Perpendicular
3" = 1'-0"



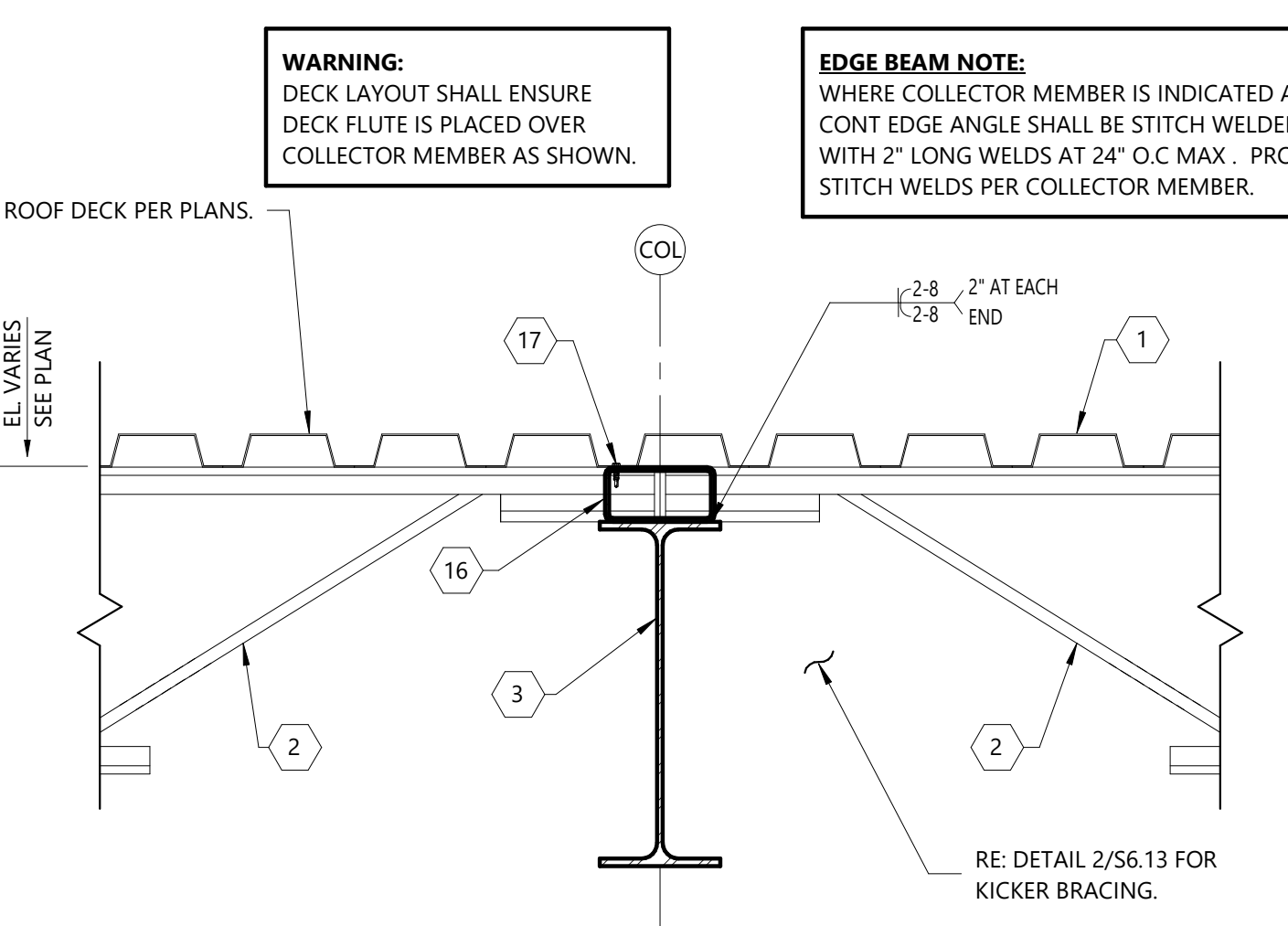
9 Brace To Joist - Parallel
3" = 1'-0"



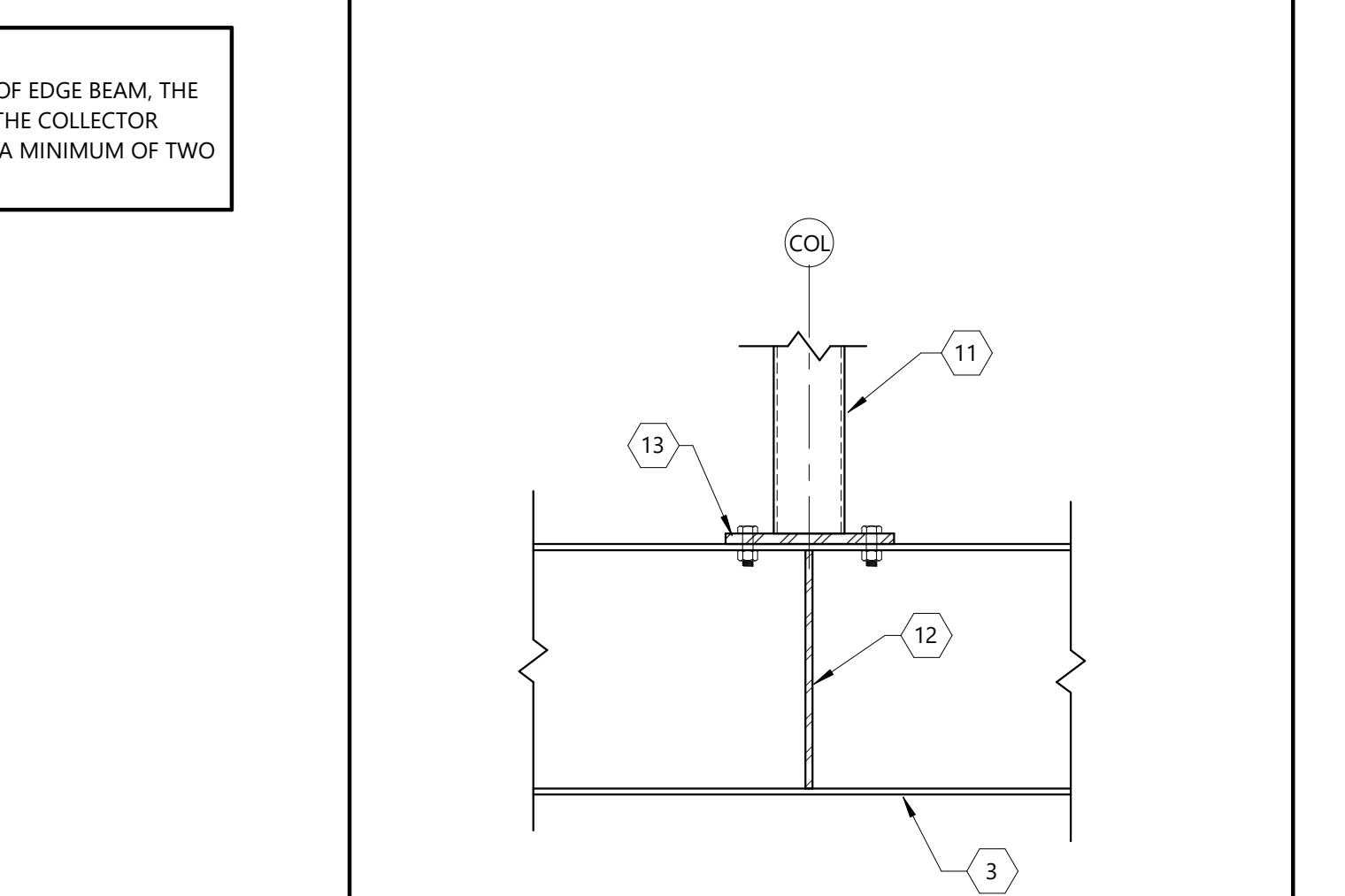
10 HSS Filler At Edge
1" = 1'-0"



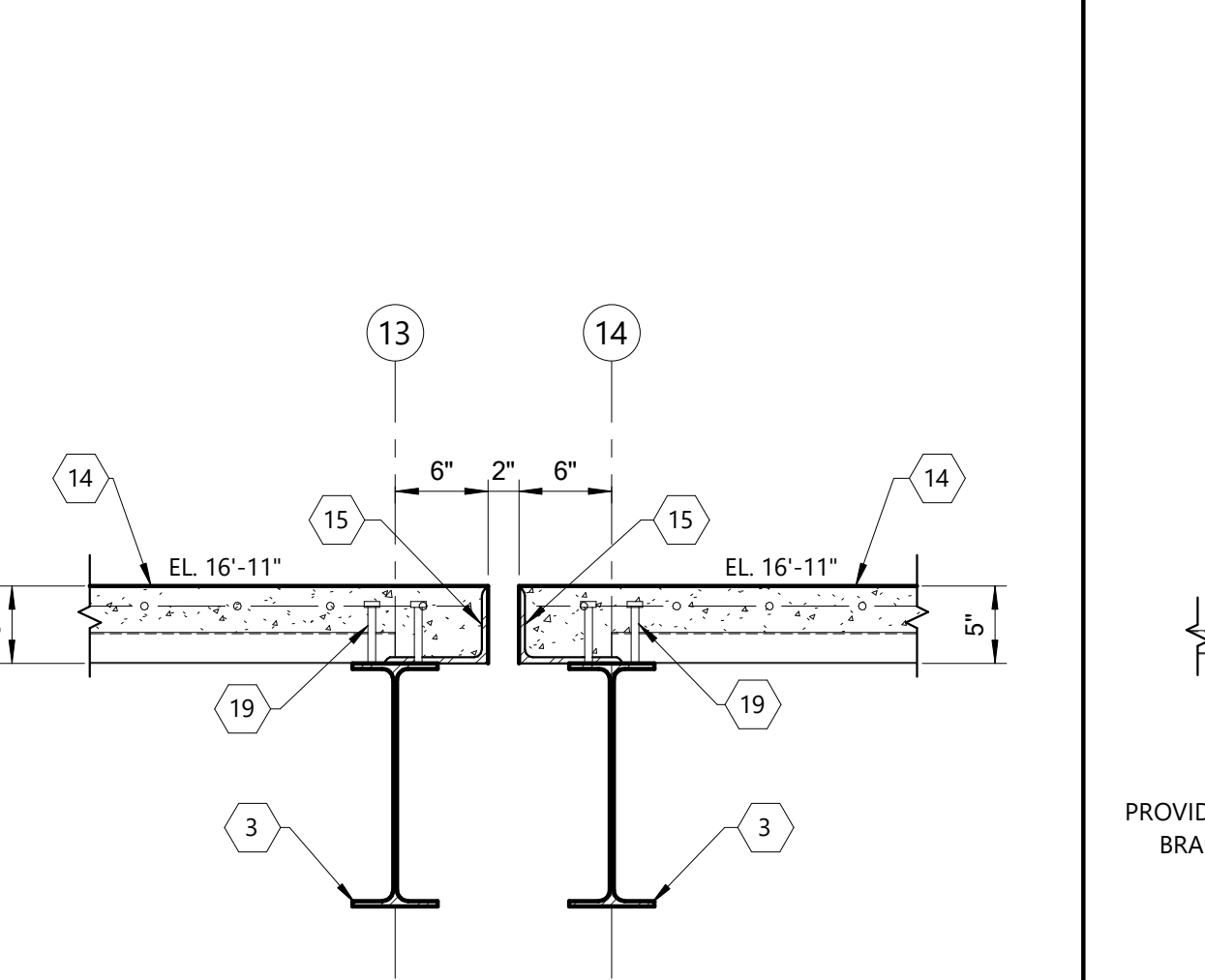
11 HSS Filler At Interior Beam
1" = 1'-0"



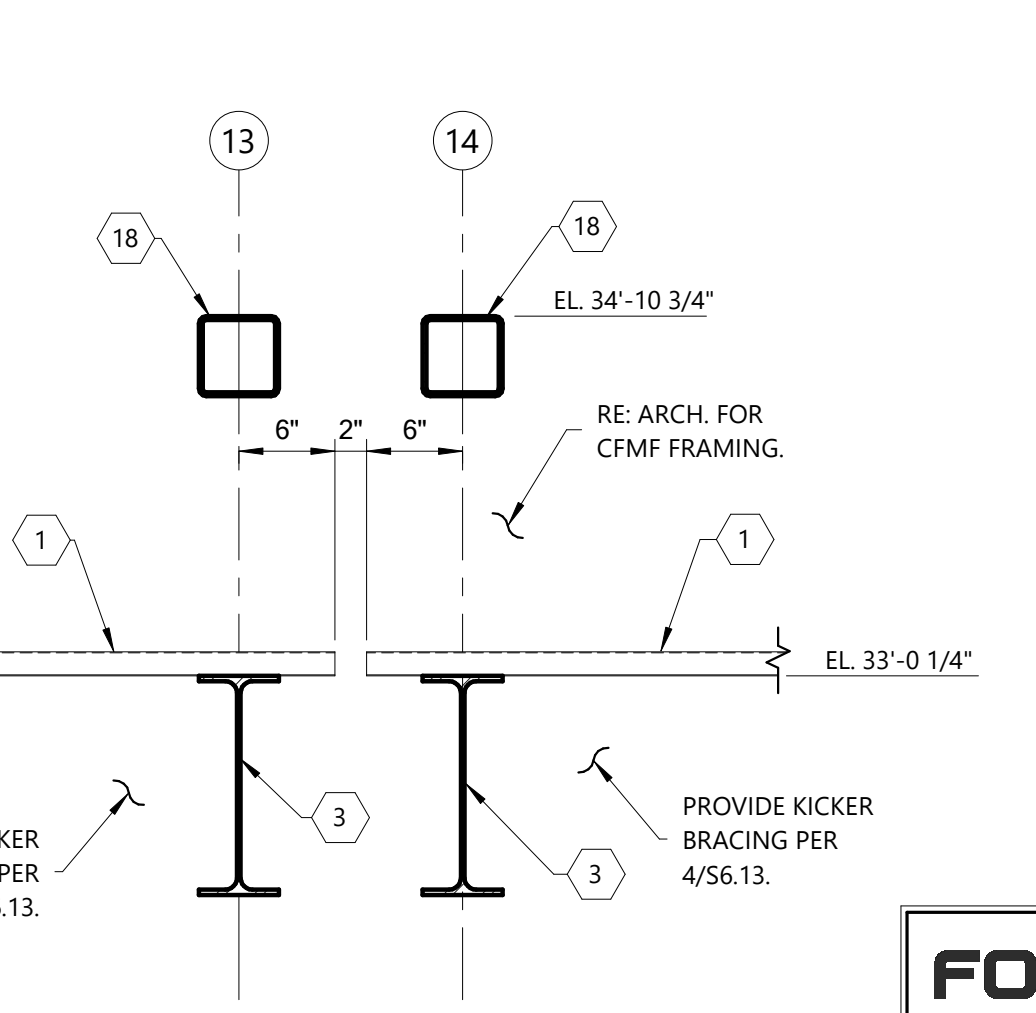
12 Collector HSS At Joist
1 1/2" = 1'-0"



13 Column On Beam Detail
1" = 1'-0"



14 Expansion Joint Detail - Floor
1" = 1'-0"

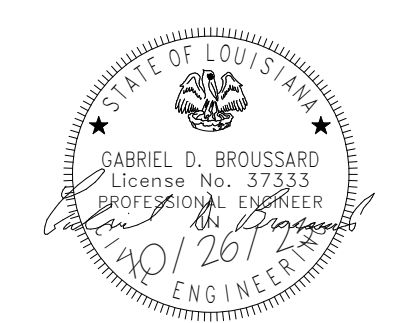


15 Expansion Joint Detail
1" = 1'-0"

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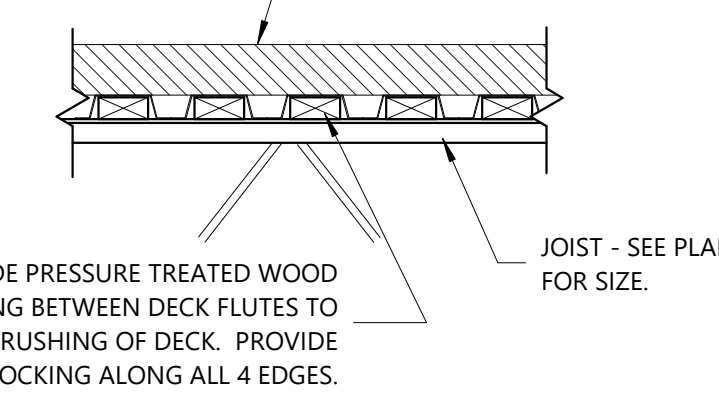
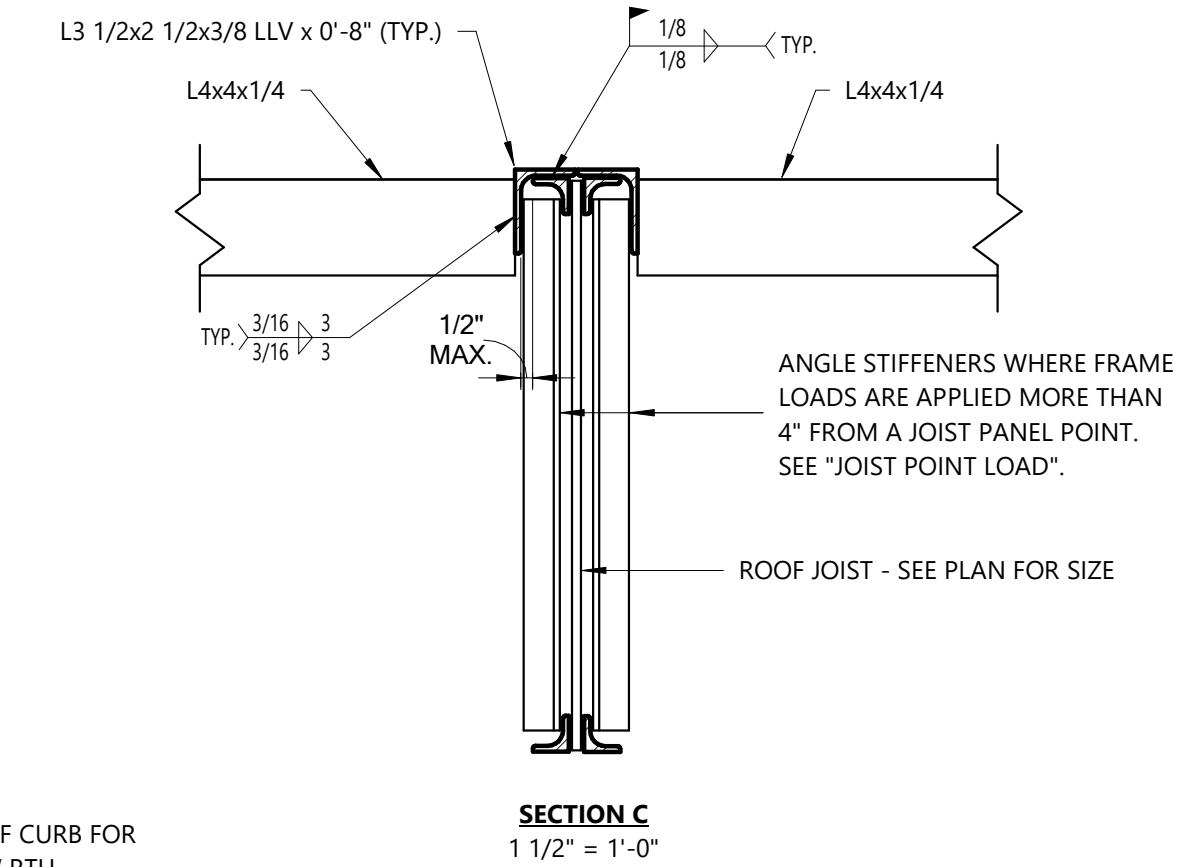
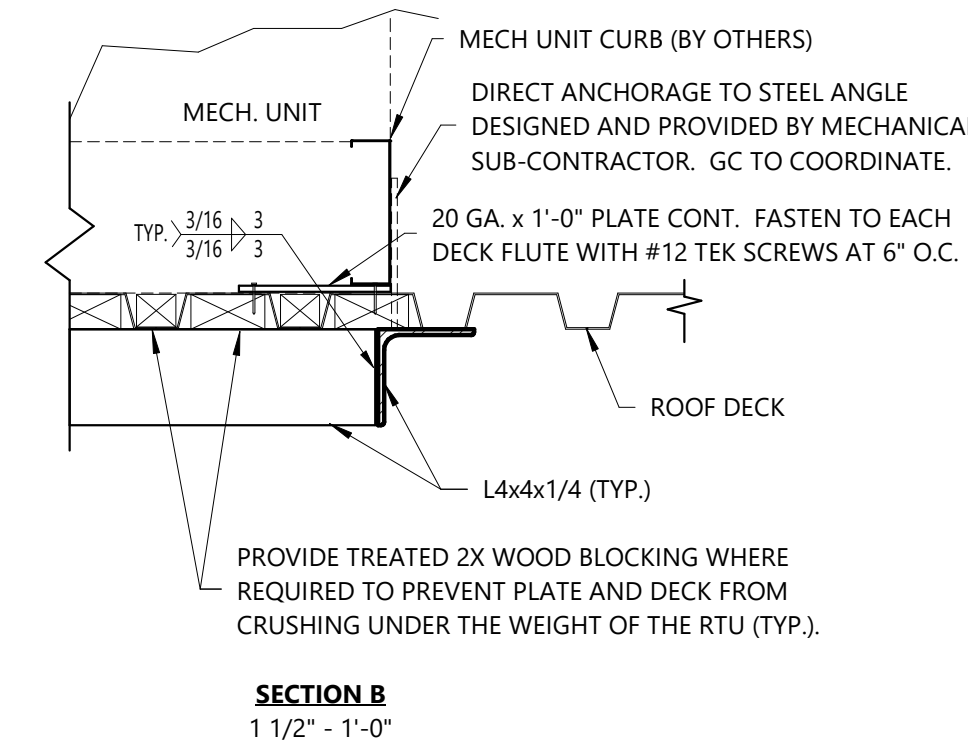
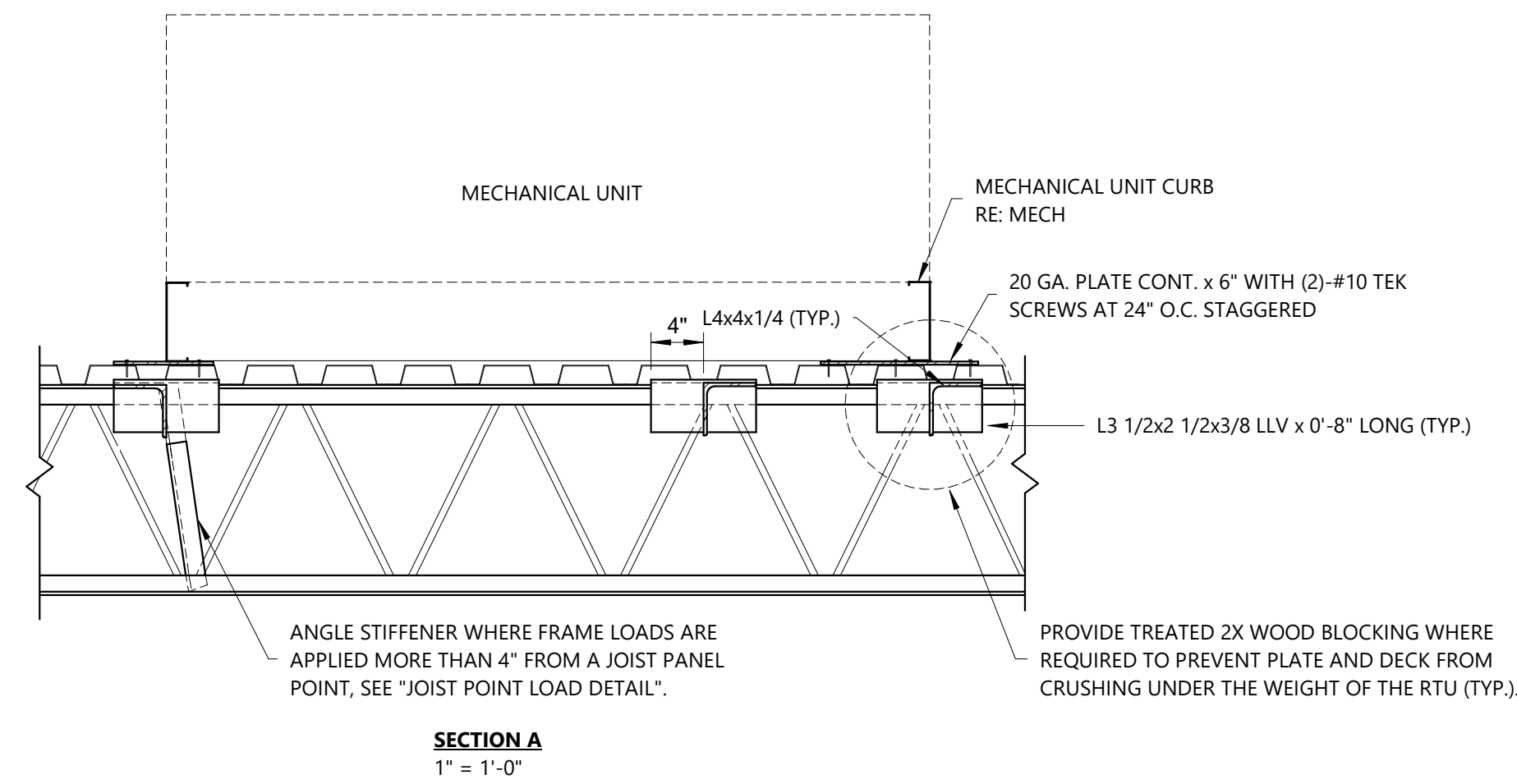
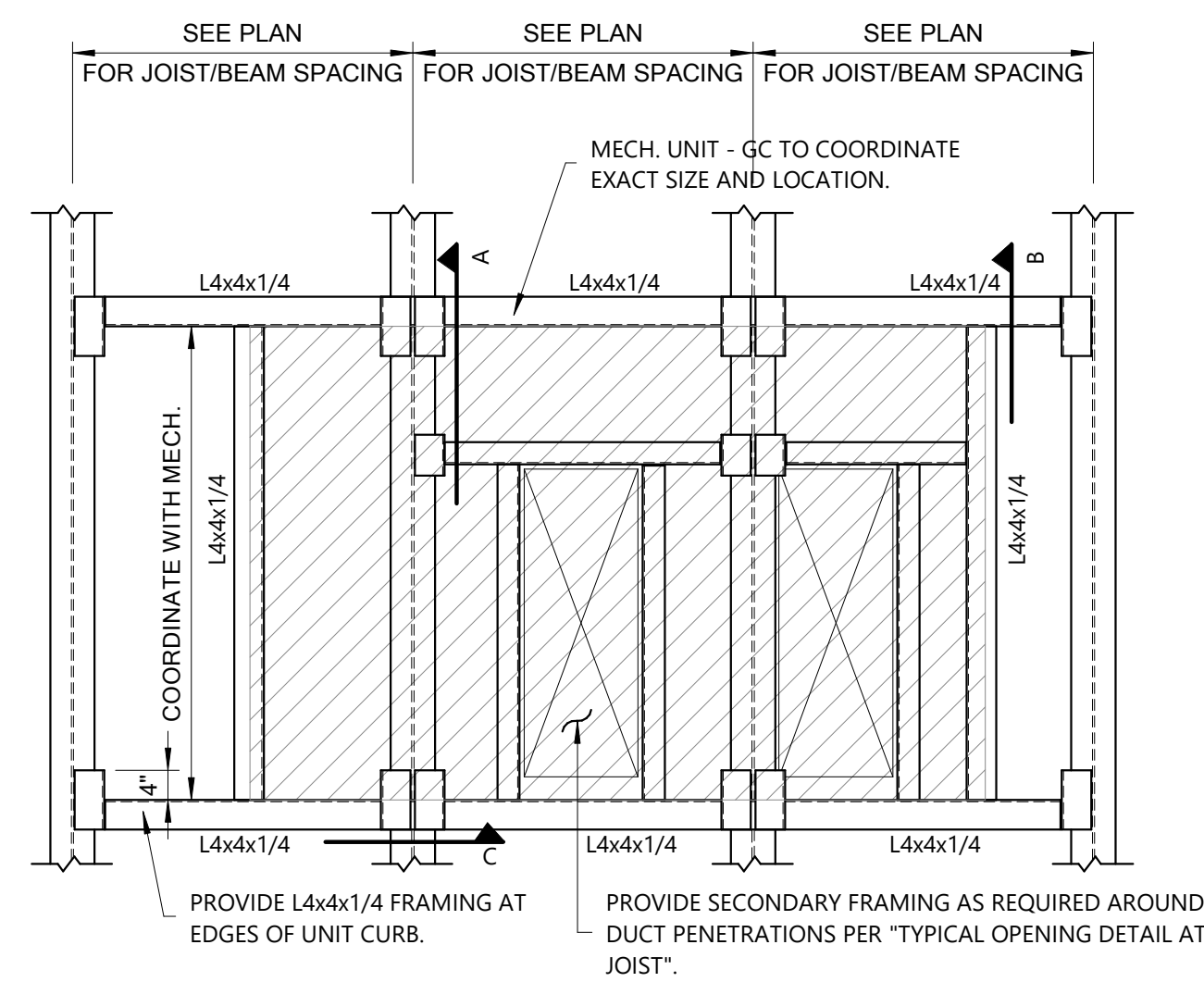
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Revisions:

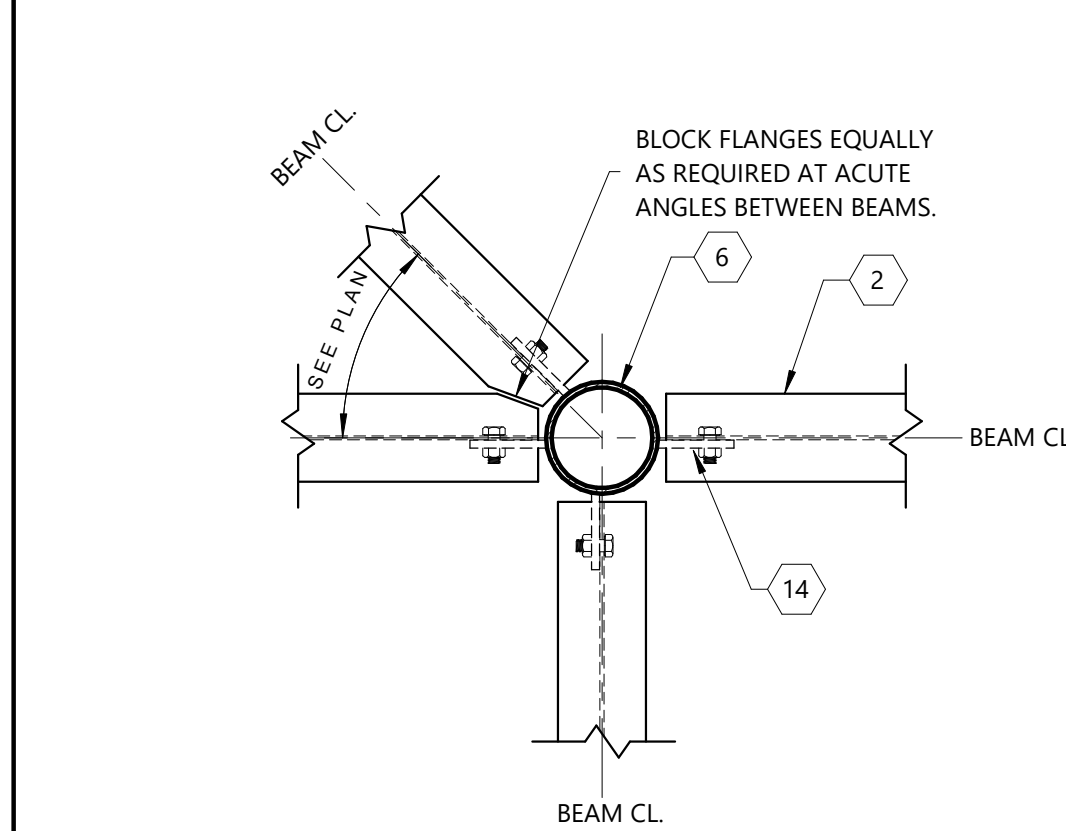
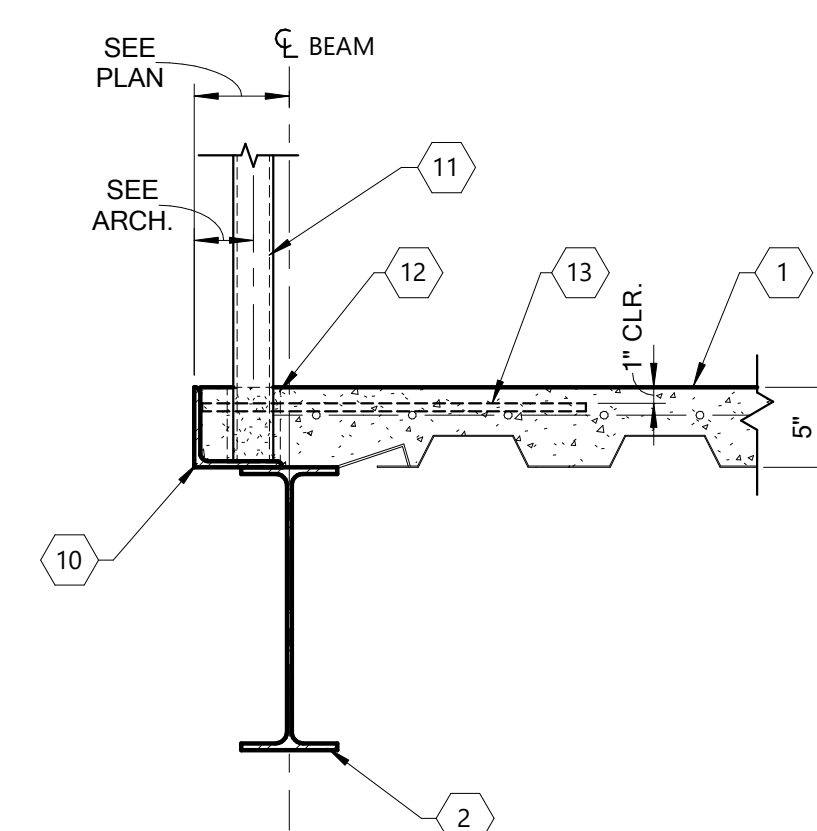
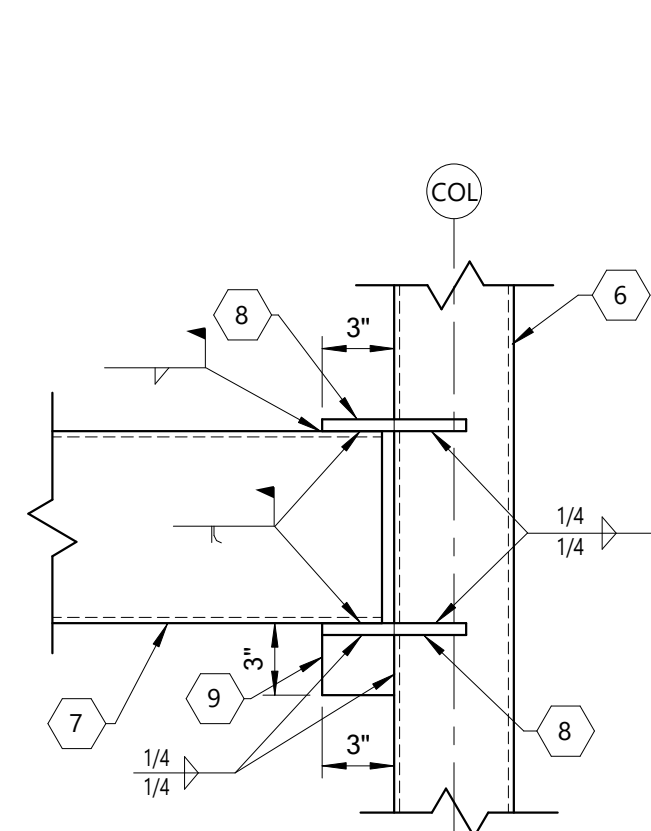
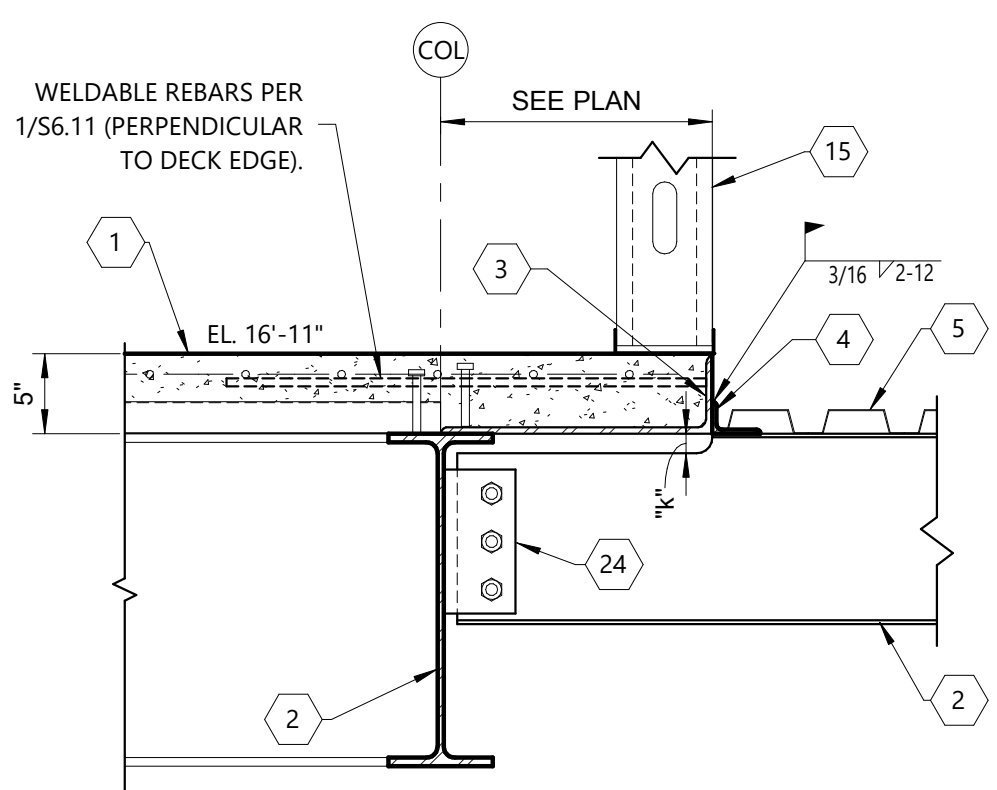


Professional Seal
Scale:
Sht Description: **FRAMING DETAILS**

North
S6.13



1 Typ. Mech. Support Unit
1/2" = 1'-0"

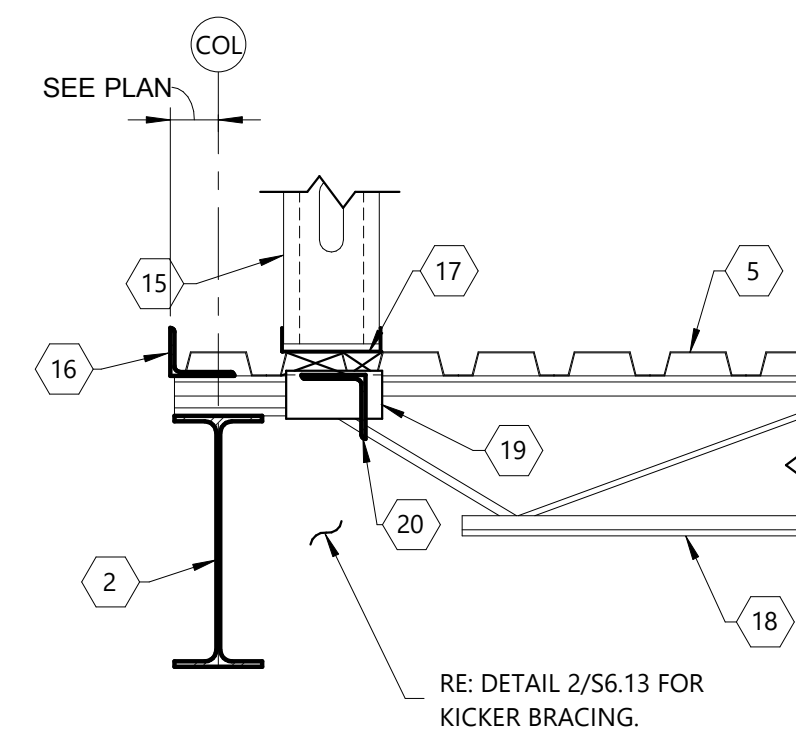
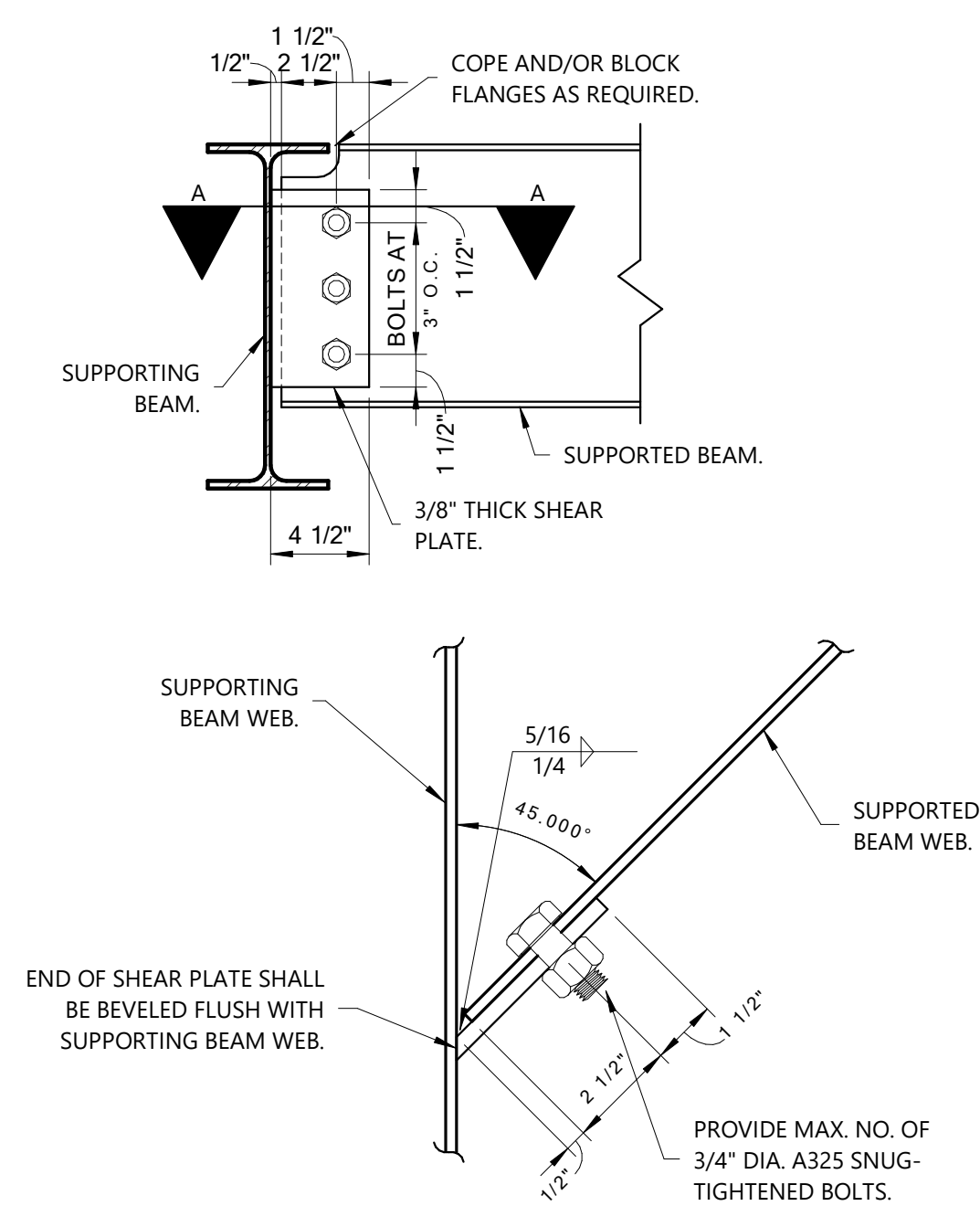
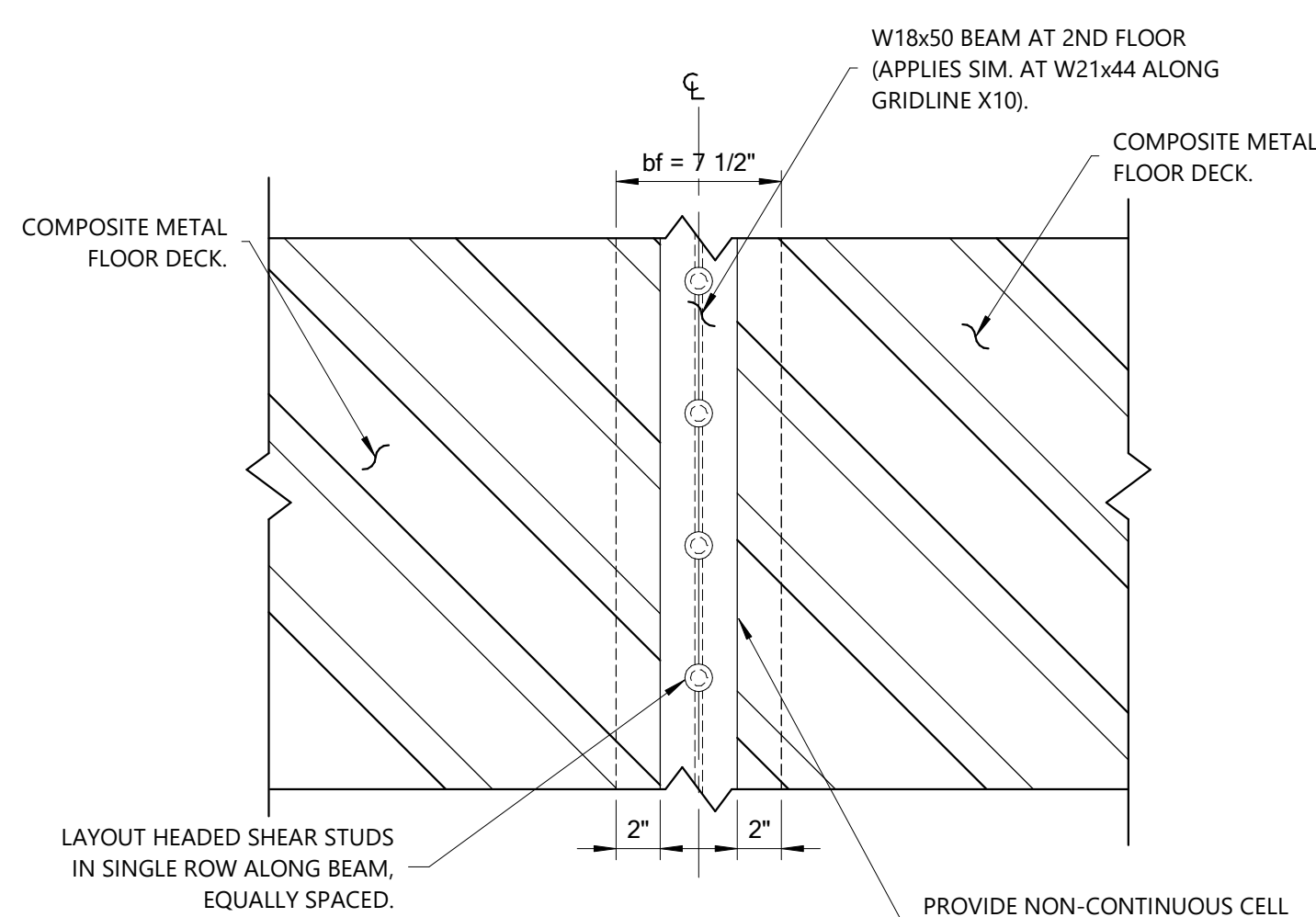


2 Floor Edge At Low Roof
1" = 1'-0"

3 HSS Beam To Round HSS Column
1 1/2" = 1'-0"

4 Floor Edge At Handrail
1" = 1'-0"

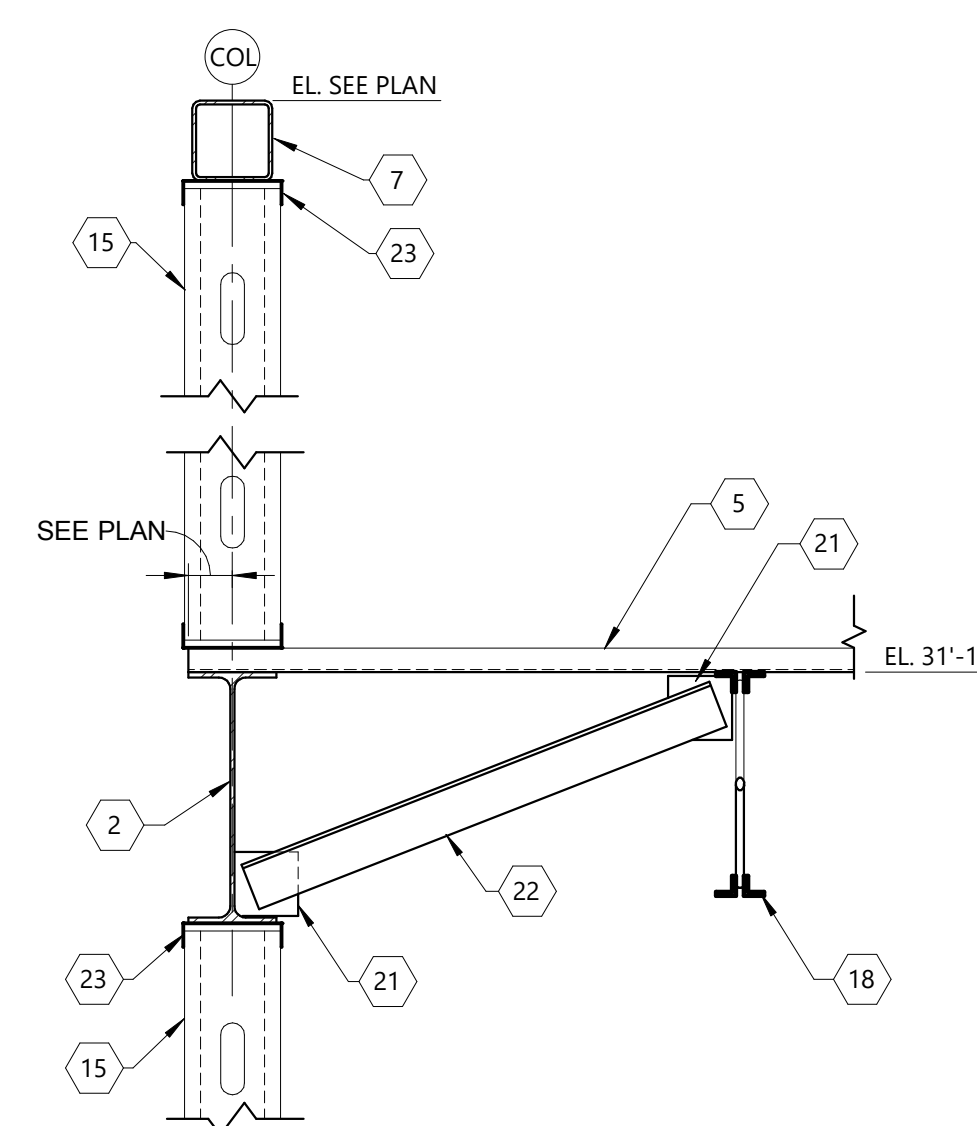
5 Skewed Beam To HSS Column
1" = 1'-0"



6 Skewed Deck At Interior Floor Beam
1 1/2" = 1'-0"

7 Skewed Beam Connection At 45 Degrees
N.T.S.

8 Detail At Roof Edge
1" = 1'-0"



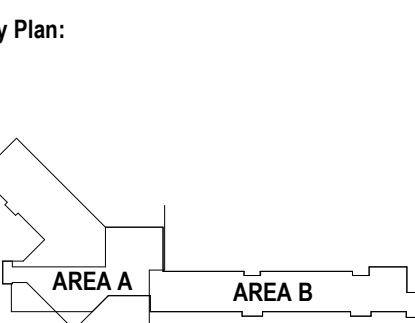
9 Typ. Edge Beam At Parapet
1" = 1'-0"

Keynote Legend

- 1 5" LIGHTWEIGHT CONCRETE ON 2VL18 GAGE METAL DECK. REINFORCE WITH WWF 4x4 W4.0/W4.0 CENTERED IN SLAB.
- 2 STEEL BEAM - SEE PLAN FOR SIZE.
- 3 CONTINUOUS EDGE MEMBER AROUND PERIMETER OF FLOOR. SEE TYPICAL DETAIL ON SHEET S6.11 FOR MORE INFORMATION.
- 4 CONT. L3x2x1/4 LLH ALONG FLOOR/ROOF TRANSITION. FIELD WELD CONT. TO TOP FLANGE OF ROOF EACH ROOF BEAM. ALL SPLICES SHALL BE CENTERED ON BEAMS.
- 5 GALVANIZED METAL ROOF DECK. RE: PLANS AND DECK FASTENER TABLE FOR INFORMATION.
- 6 STEEL COLUMN - SEE PLAN FOR SIZE.
- 7 HSS BEAM - SEE PLAN FOR SIZE AND ELEVATION.
- 8 1/2" FLANGE PLATE WITH ROUND CUT TO MATCH OUTSIDE FACE OF COLUMN. WIDTH OF PLATE SHALL MATCH WIDTH OF COLUMN PLUS ONE-INCH.
- 9 1/2" GUSSET PLATE.
- 10 5/16" THICK MINIMUM FLOOR EDGE.
- 11 PRE-ENGINEERED RAIL POST DESIGNED PER IBC 2021. RE: ARCH. FOR MORE INFORMATION.
- 12 CORE DRILL AND GROUT FILL AS REQUIRED.
- 13 #4 x 2'-0" LONG ASTM A706 WELDABLE REBARS AT 12" O.C. WELD ALL AROUND TO FLOOR EDGE WITH 5/16" FILLET WELD. LOCATE BARS AS REQUIRED TO AVOID CONFLICTS WITH POSTS.
- 14 STANDARD SINGLE PLATE BEAM CONNECTION. RE: TYPICAL BEAM TO HSS COLUMN CONNECTION SCHEDULE AND DETAIL.
- 15 COLD-FORMED METAL WALL STUDS DESIGNED BY COLD-FORMED METAL FRAMING SUPPLIER. RE: ARCH. DRAWINGS FOR STUD DEPTH. SEE SPECIFICATION 05 4000 FOR MORE INFORMATION.
- 16 CONTINUOUS EDGE MEMBER PER "TYPICAL EDGE ANGLE/BENT PLATE AT ROOF" DETAIL.
- 17 PROVIDE WOOD BLOCKING AS REQUIRED TO PREVENT CRUSHING OF DECK AND TRANSFER BRICK WEIGHT TO SUPPORT BELOW.
- 18 STEEL JOIST - SEE PLAN FOR SIZE.
- 19 L3x2x1/4 x 6" LONG AT EACH END OF L6x4 MEMBER. WELD EACH SIDE OF HORIZONTAL LEG TO TOP OF JOIST. JOIST SUPPLIER SHALL DESIGN JOIST FOR 1600 POUNDS (U.N.O) DUE TO DEAD WEIGHT OF WALL AT THIS LOCATION.
- 20 L4x4x1/4 LLV BETWEEN JOIST. CENTER VERTICAL LEG OF ANGLE ON WALL STUD. HORIZ. LEG SHALL BE DIRECTED INWARD AS SHOWN. WELD BOTH SIDES OF VERTICAL LEG CONTINUOUS TO SUPPORT AT EACH END.
- 21 4"x4"x1/4" GUSSET PLATE. FIELD WELD TO BEAM OR JOIST TOP CHORD AT PANEL POINT LOCATION. PROVIDE CONTINUOUS 1/8" FILLET WELD ON BOTH SIDES OF GUSSET PLATE.
- 22 BRACE ALL EDGE BEAMS PARALLEL TO JOIST WITH L2 1/2x3/16 KICKER BRACE AT 4'-0" O.C. MAX. SPACING. PROVIDE A BRACE 2'-0" MIN. FROM EACH END OF BEAM. JOIST SUPPLIER SHALL DESIGN JOIST TO SUPPORT BRACE FORCE DUE TO WIND ON WALL. MAX. ASD-FACTORED BRACE FORCE IS 1200 POUNDS IN EITHER DIRECTION. PROVIDE TOP CHORD REINFORCEMENT AS REQUIRED. ATTACHMENT TO JOIST SHALL BE AT PANEL POINT.
- 23 COLD-FORMED METAL SLIP CONNECTION DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. ATTACH TO STRUCTURE AS SHOWN AND PROVIDE VERTICAL SLIP PER SPECIFICATIONS. AT LOCATIONS WHERE CONNECTION IS INDICATED TO WEB OF STEEL BEAM, THE CONNECTION SHALL BE MADE AS CLOSE TO TOP FLANGE OF BEAM AS POSSIBLE.
- 24 TYPICAL SINGLE PLATE SKEWED BEAM CONNECTION AT 45 DEGREES. RE: 7/56.14.

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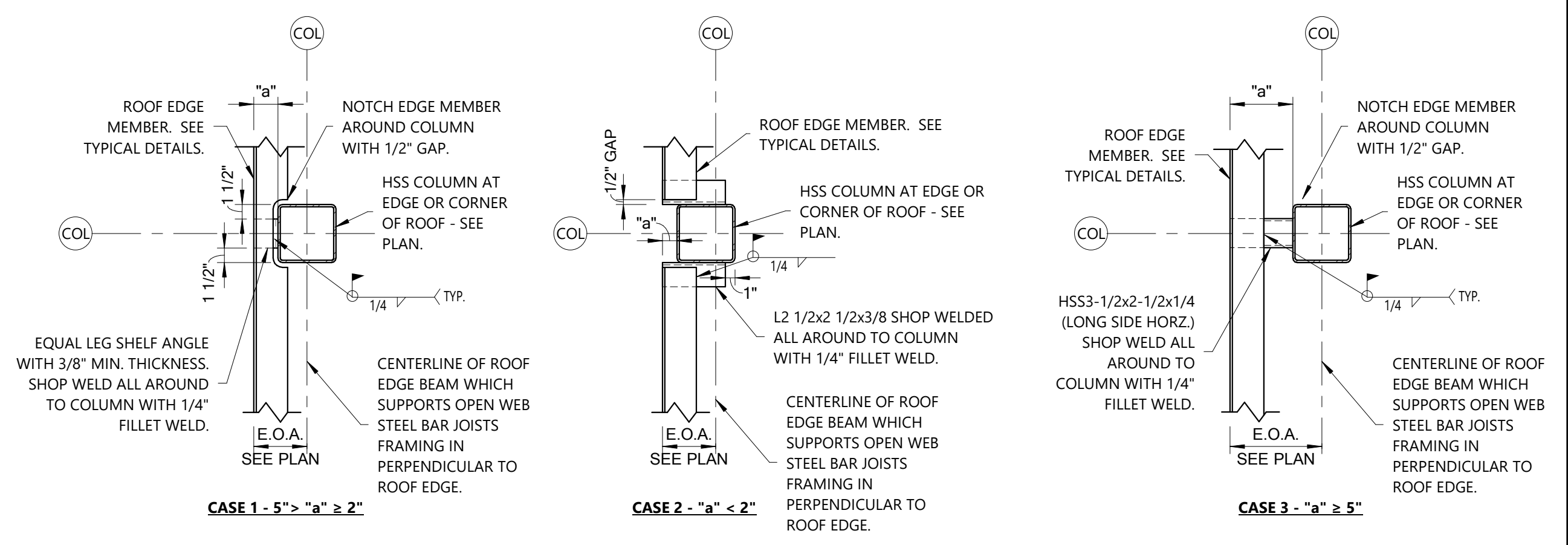
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Sht Description:
FRAMING DETAILS

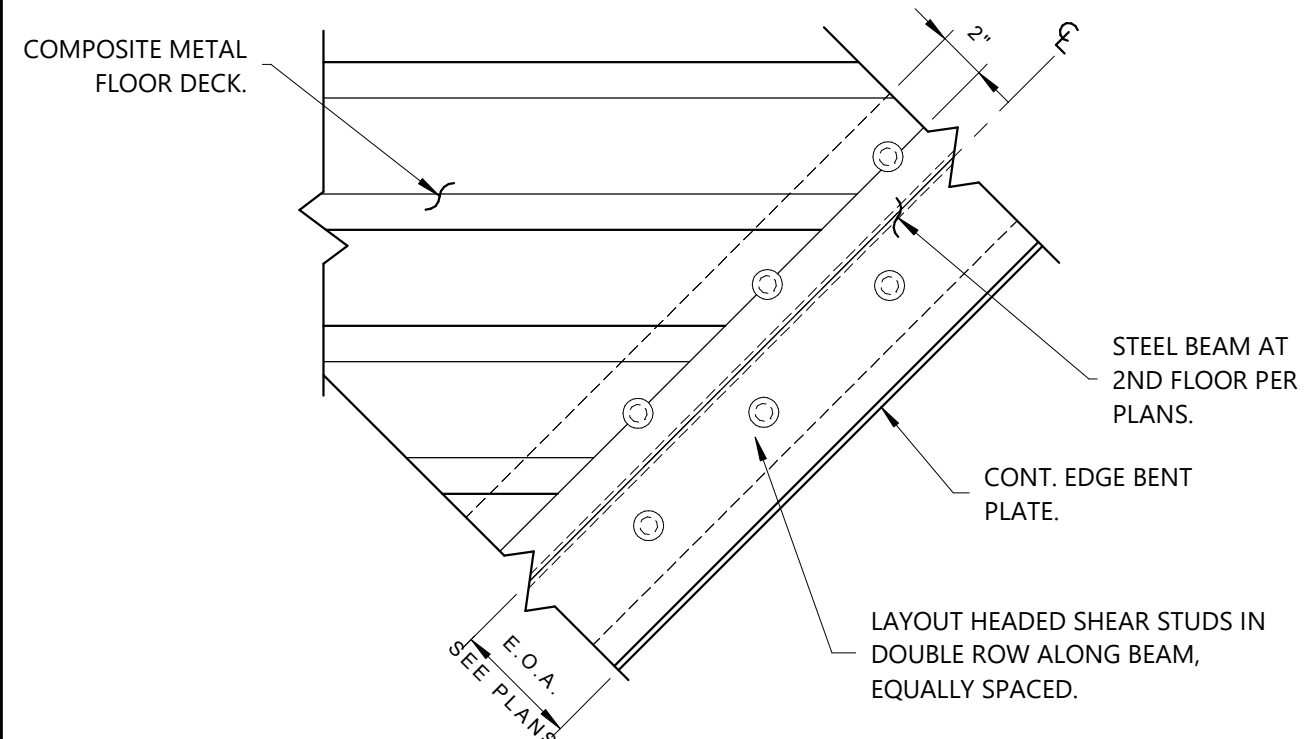
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North
S6.14

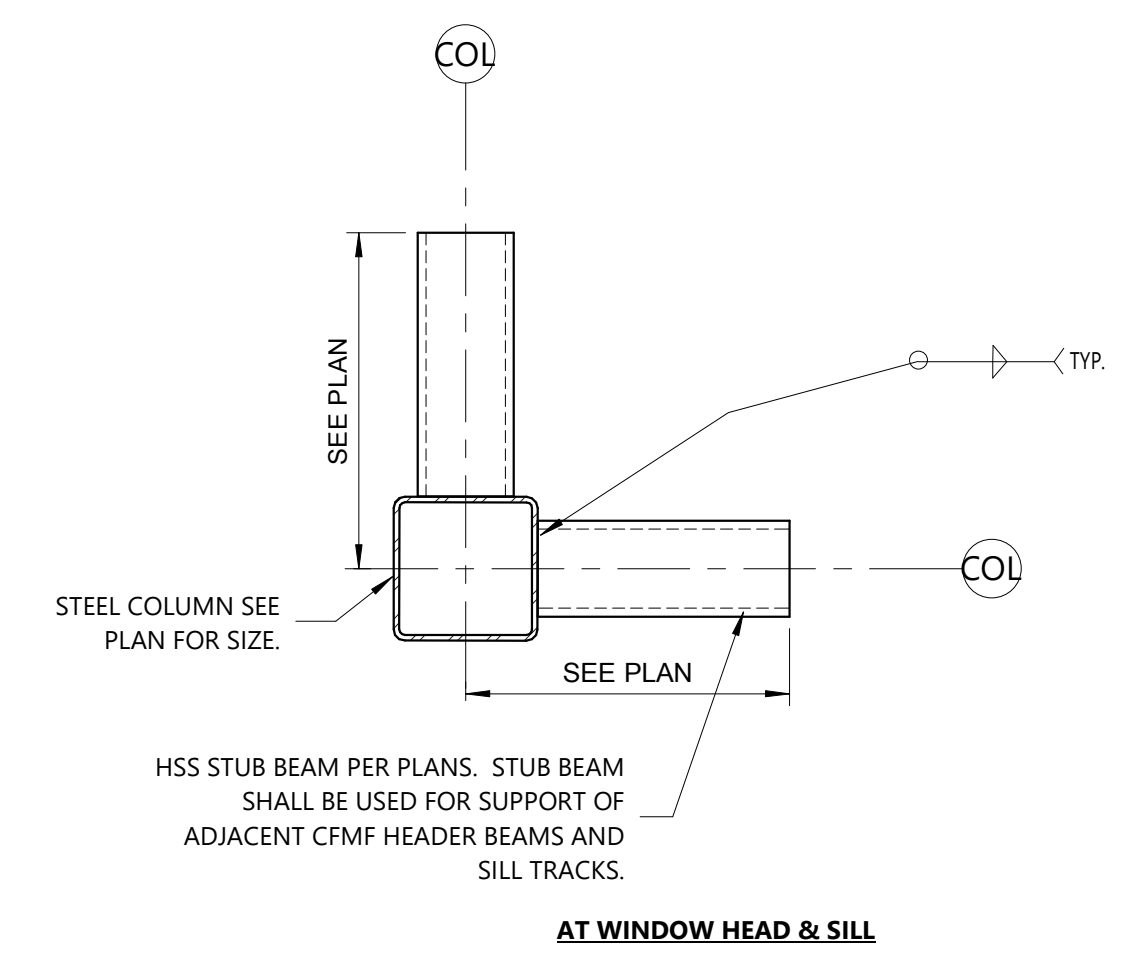
NOTE:
 AT ROOF CONDITIONS WHERE TOP OF COLUMN IS AT OR BELOW BOTTOM OF EDGE MEMBER, EDGE MEMBER SHALL BE CONTINUOUS OVER COLUMN AND NO NOTCH SHALL BE PROVIDED. THIS DETAIL ONLY APPLIES AT CONDITIONS WHERE COLUMN EXTENDS ABOVE ROOF.



1 Edge Member Support At Column Extending Above Roof
 1" = 1'-0"

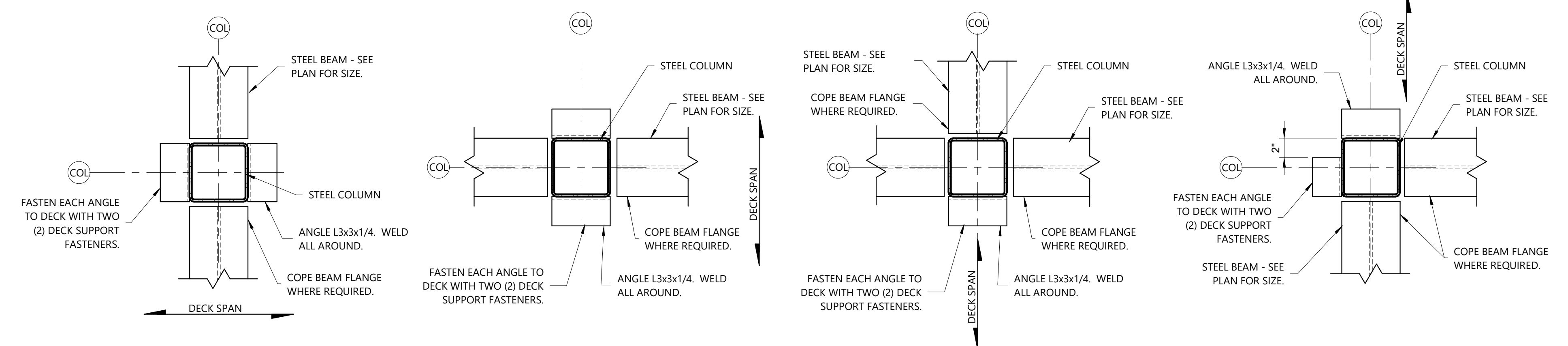


2 Skewed Deck At Floor Edge Beam
 1 1/2" = 1'-0"



3 Offset Beam To Column Connx.
 1 1/2" = 1'-0"

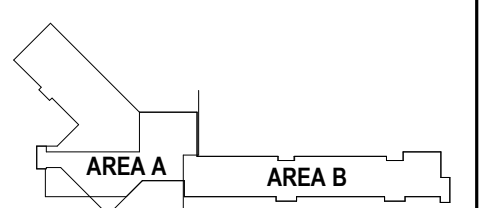
NOTE:
 PROVIDE ANGLES AS REQUIRED WHERE BEAMS DO NOT FRAME TO COLUMNS. CONTRACTOR TO SEAL ANY CAVITIES AS REQUIRED.
 THIS DETAIL APPLIES AT SQUARE HSS COLUMNS (SHOWN) AND ROUND HSS COLUMNS (SIM.).



4 Metal Deck Support At HSS Column
 1 1/2" = 1'-0"

Keynote Legend

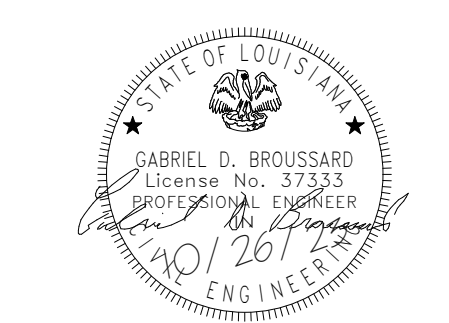
- 3/4" CAP PLATE WITH (4)-3/4" DIA. BOLTS.
- STEEL BEAM - SEE PLAN FOR SIZE.
- HSS BEAM - SEE PLAN FOR SIZE AND ELEVATION.
- 3/8" STIFFENER PLATE EACH SIDE OF BEAM WEB. WELD BOTH SIDES CONTINUOUS WITH 1/4" FILLET WELD.
- HSS HANGER. SEE PLANS FOR SIZE.
- STEEL COLUMN - SEE PLAN FOR SIZE.
- 3/4" THICK BEARING PLATE WITH (4)-3/4" DIA. A325 TENSION CONTROL BOLTS. SHOP WELD PLATE ALL AROUND TO COLUMN/POST WITH 1/4" FILLET WELD.
- 3/8" STIFFENER/SHEAR PLATE. SHOP WELD BOTH SIDES CONTINUOUS TO BEAM WITH 1/4" FILLET WELD. PROVIDE MAXIMUM NUMBER OF 3/4" DIA. A325-TC BOLTS TO BEAM WEB. COPE BEAM FLANGE AS REQUIRED.
- L3x3x5/16 CONNECTION ANGLE. SHOP WELD ALL AROUND TO COLUMN AND FIELD WELD 3 SIDES TO BEAM. USE 1/4" FILLET WELD. LENGTH OF ANGLES SHALL BE WIDTH OF BEAM OR COL. (WHICHEVER IS NARROWER) MINUS 2". CENTER EACH ANGLE ABOUT BEAM WIDTH. USE 5/16" THICK BENT PLATE WITH SAME DIMENSIONS AT SLOPED BEAM CONDITIONS.
- 3/8" THICK CAP PLATE SHOP WELDED ALL AROUND TO COLUMN AND FIELD WELDED 3 SIDES TO EACH BEAM WITH FLARE BEVEL GROOVE WELD OR 1/4" FILLET WELD.
- PROVIDE L3x3x1/4 KICKER BRACE FROM SIDE OF HSS BEAM TO BOTTOM FLANGE OF WF BEAM AT 45 DEGREE ANGLE. FIELD WELD EACH END ALL AROUND.



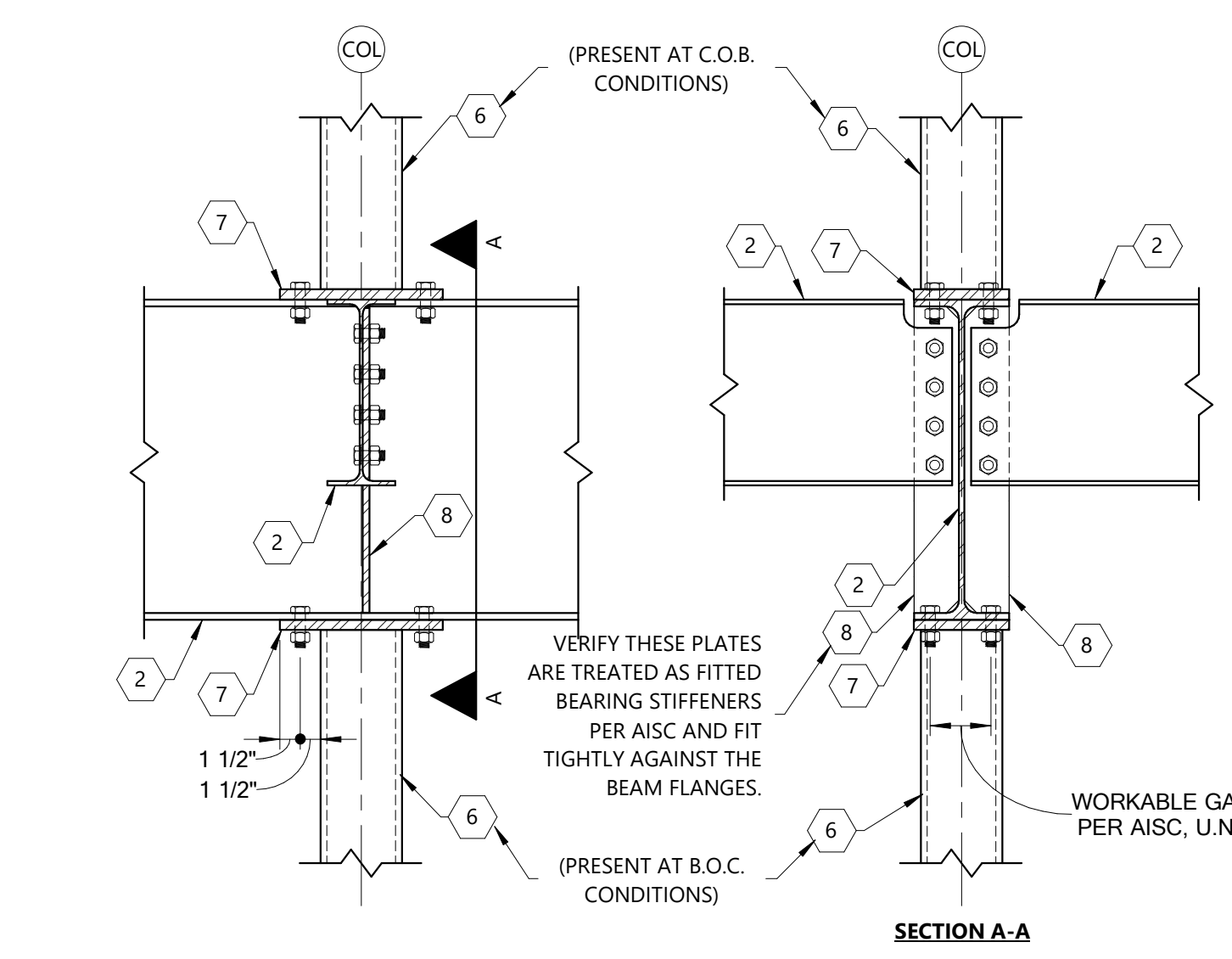
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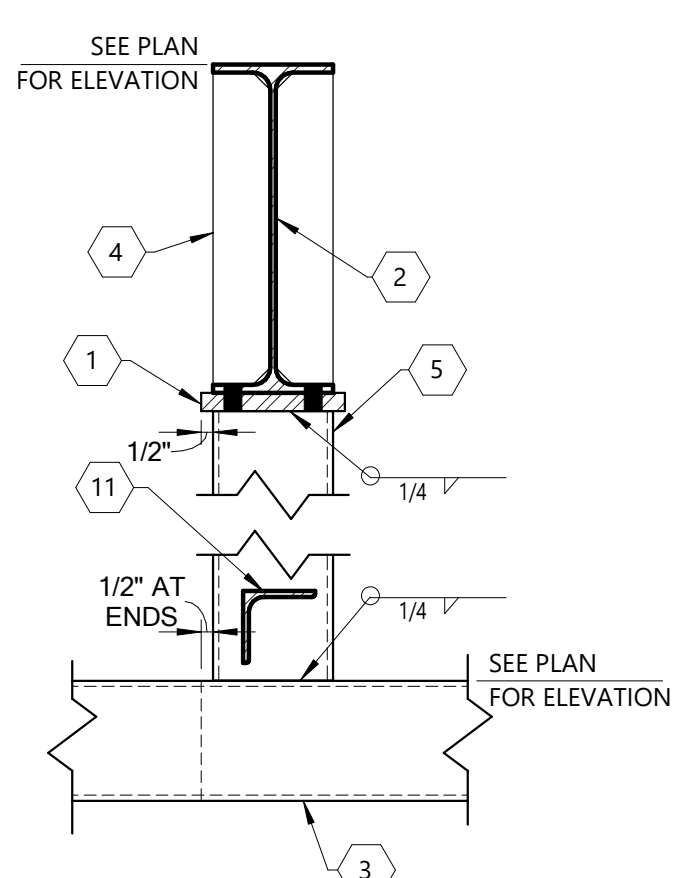
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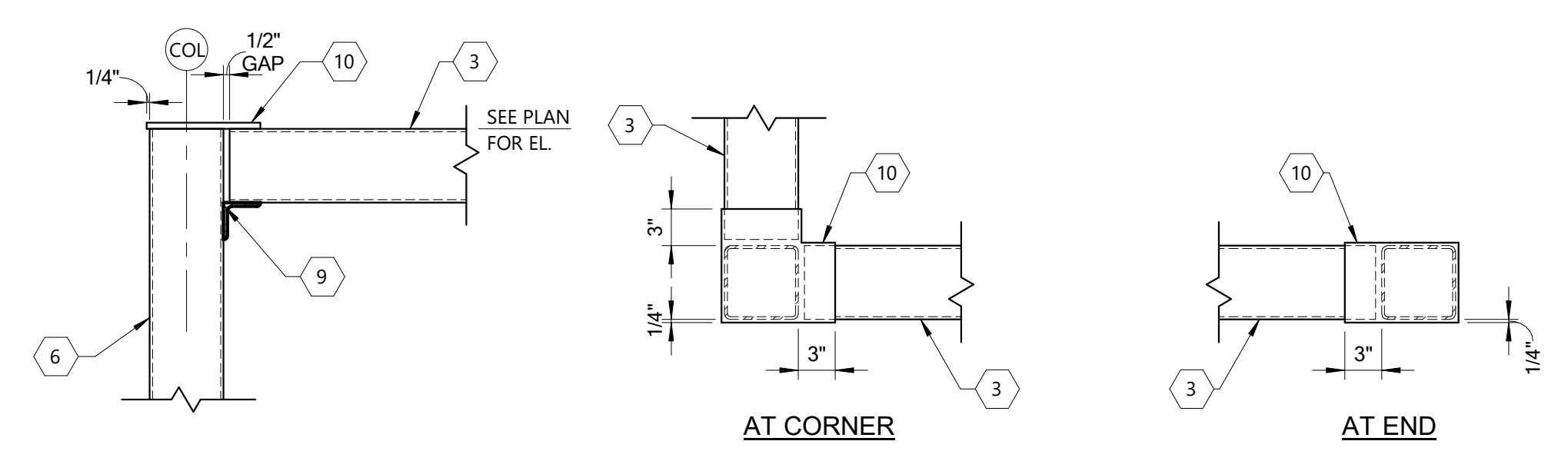
Professional Seal
 Scale:
 Sht Description: FRAMING DETAILS



5 Beam Over Column Connection/Column On Beam
 1" = 1'-0"



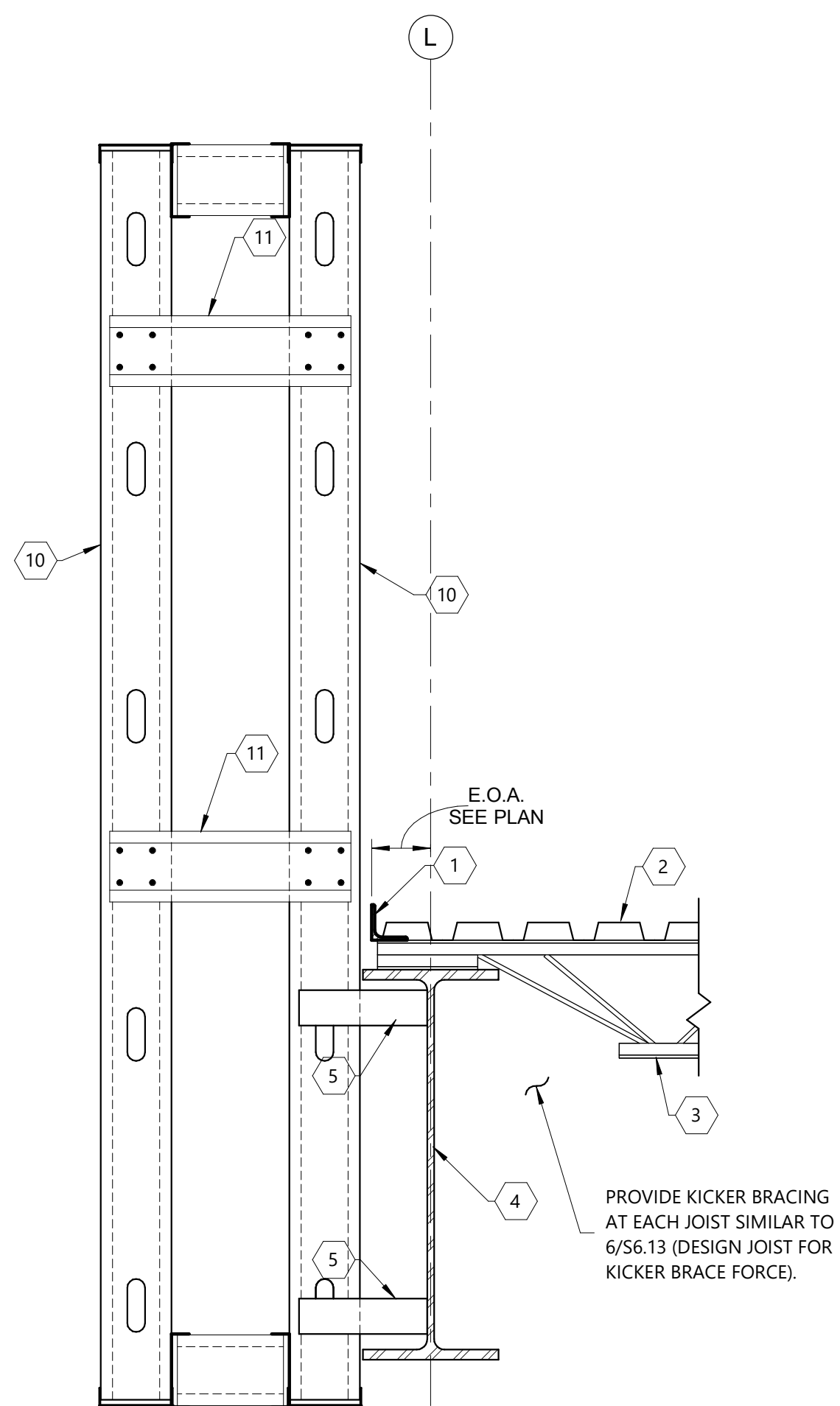
6 Typical HSS Hanger
 1 1/2" = 1'-0"



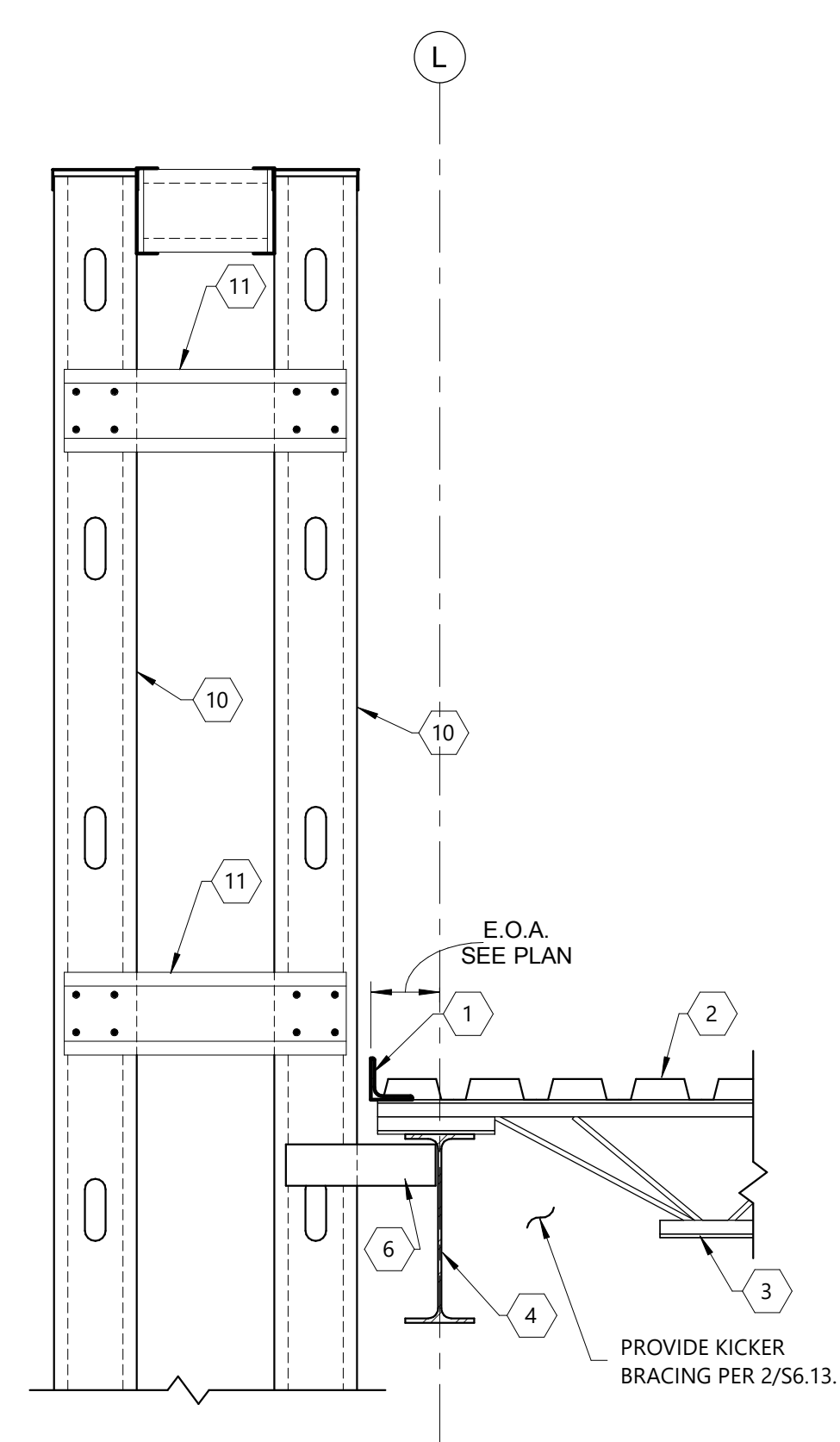
7 Parapet Beam Connections
 1" = 1'-0"

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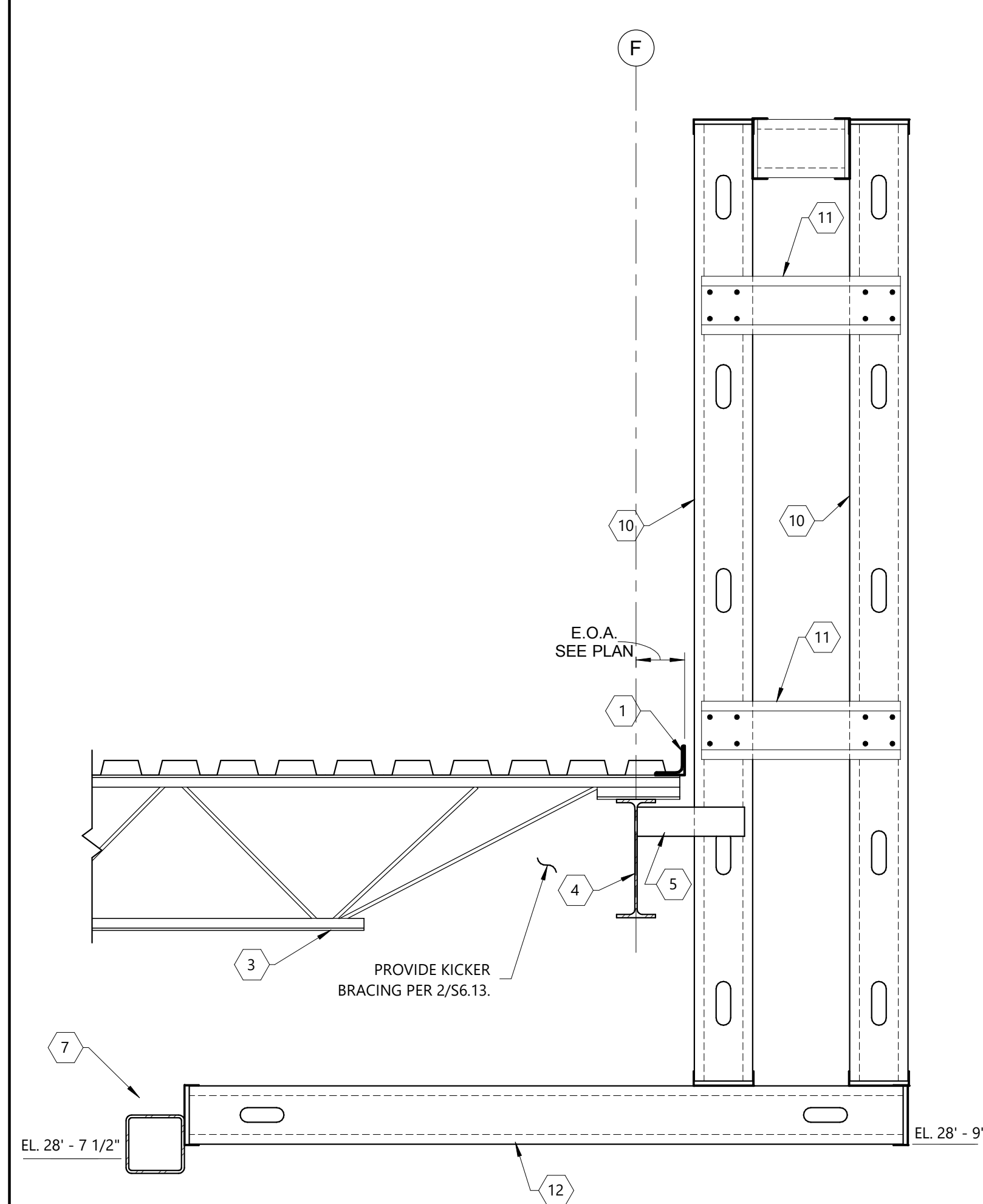
S6.15
 North



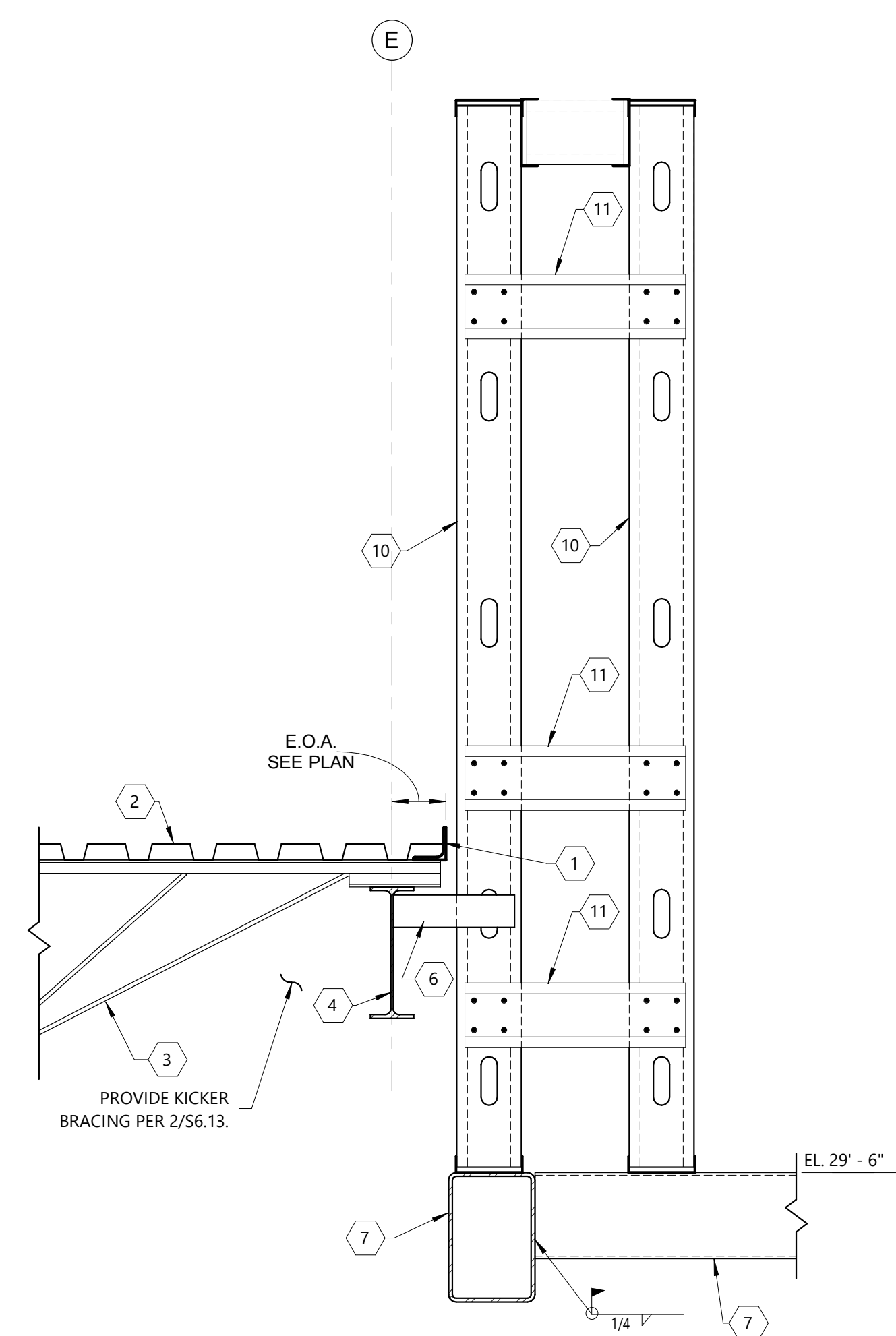
1 Roof Edge At Overhang
1" = 1'-0"



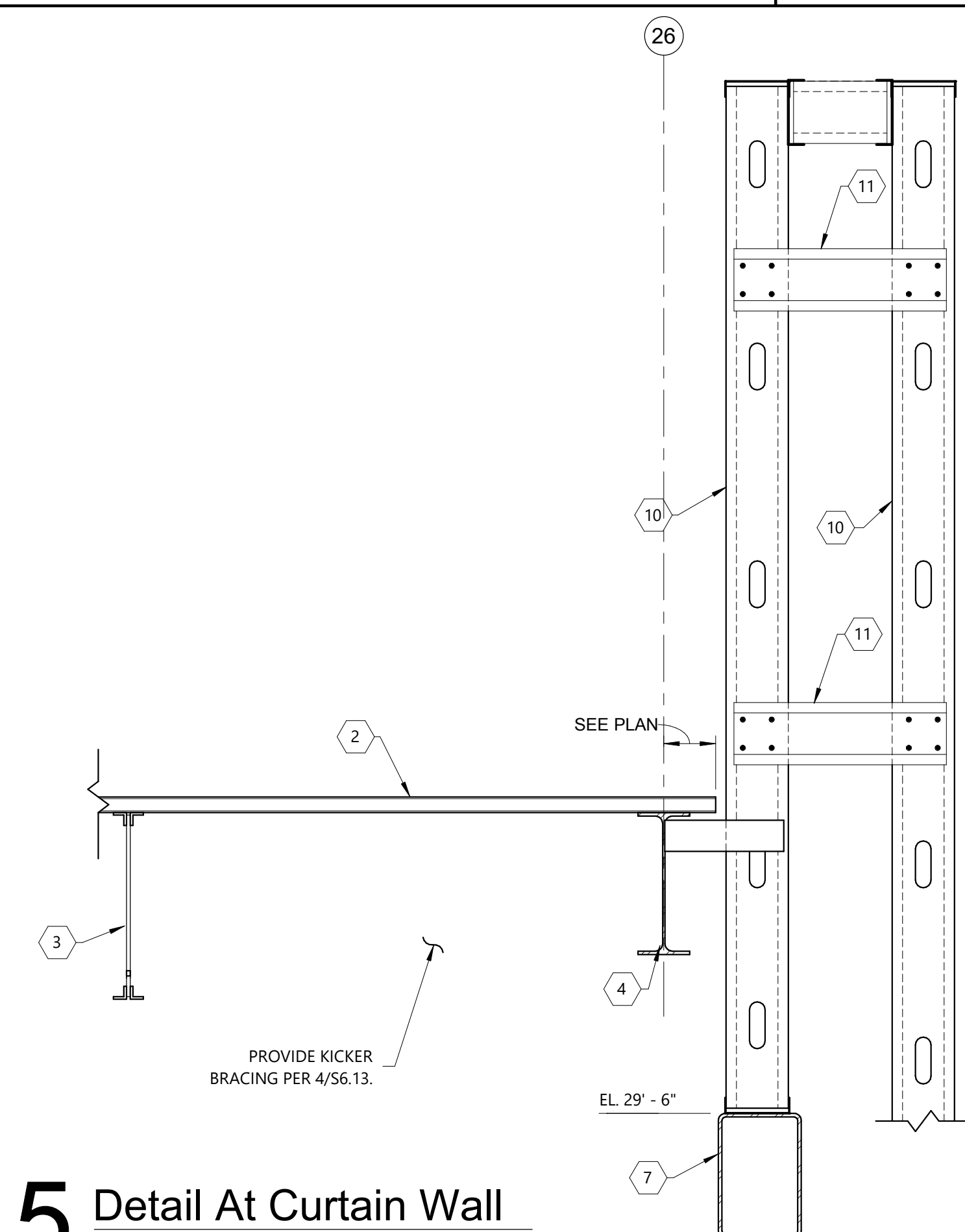
2 Roof Edge Along L
1" = 1'-0"



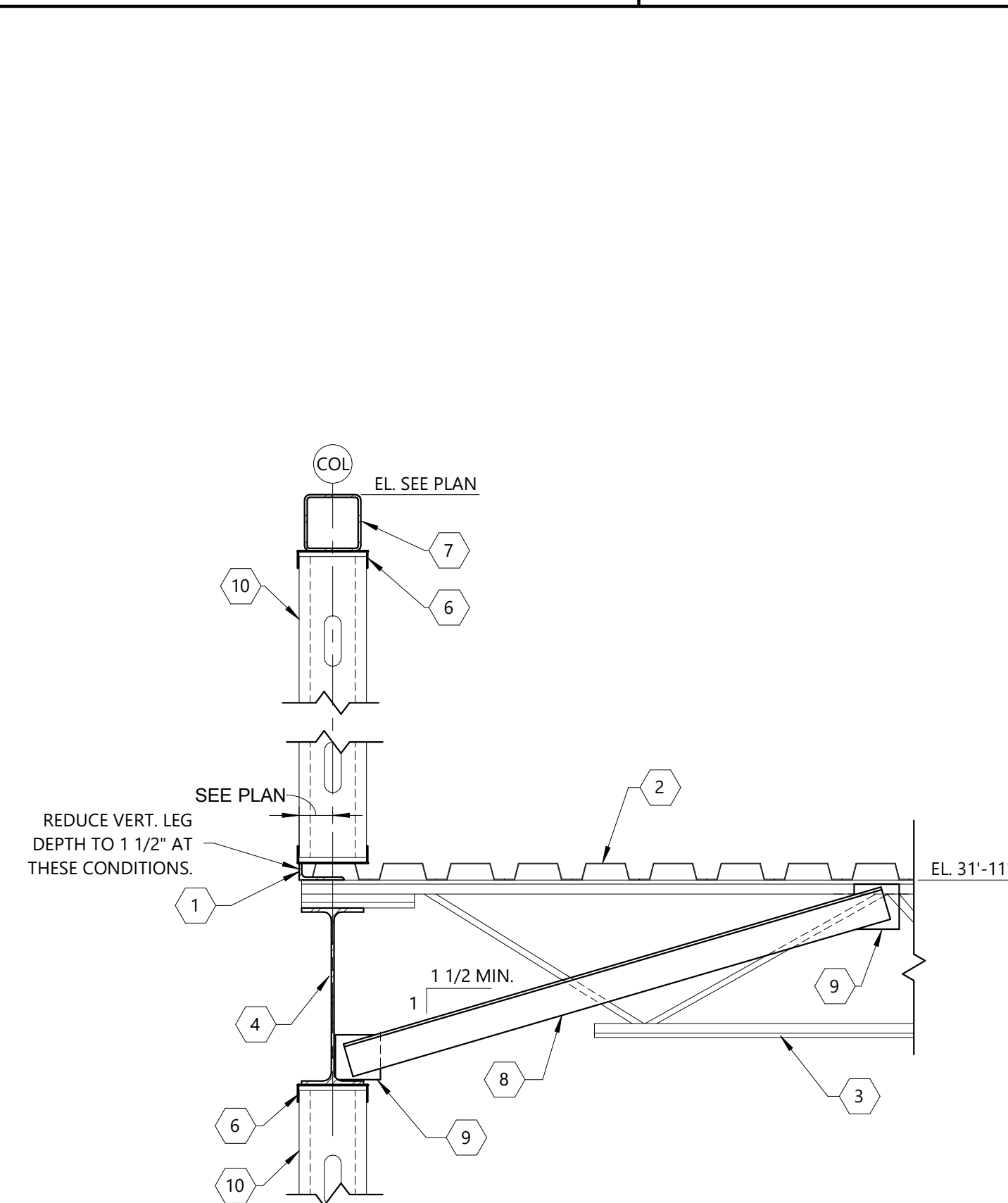
3 Detail At Front Overhang
1" = 1'-0"



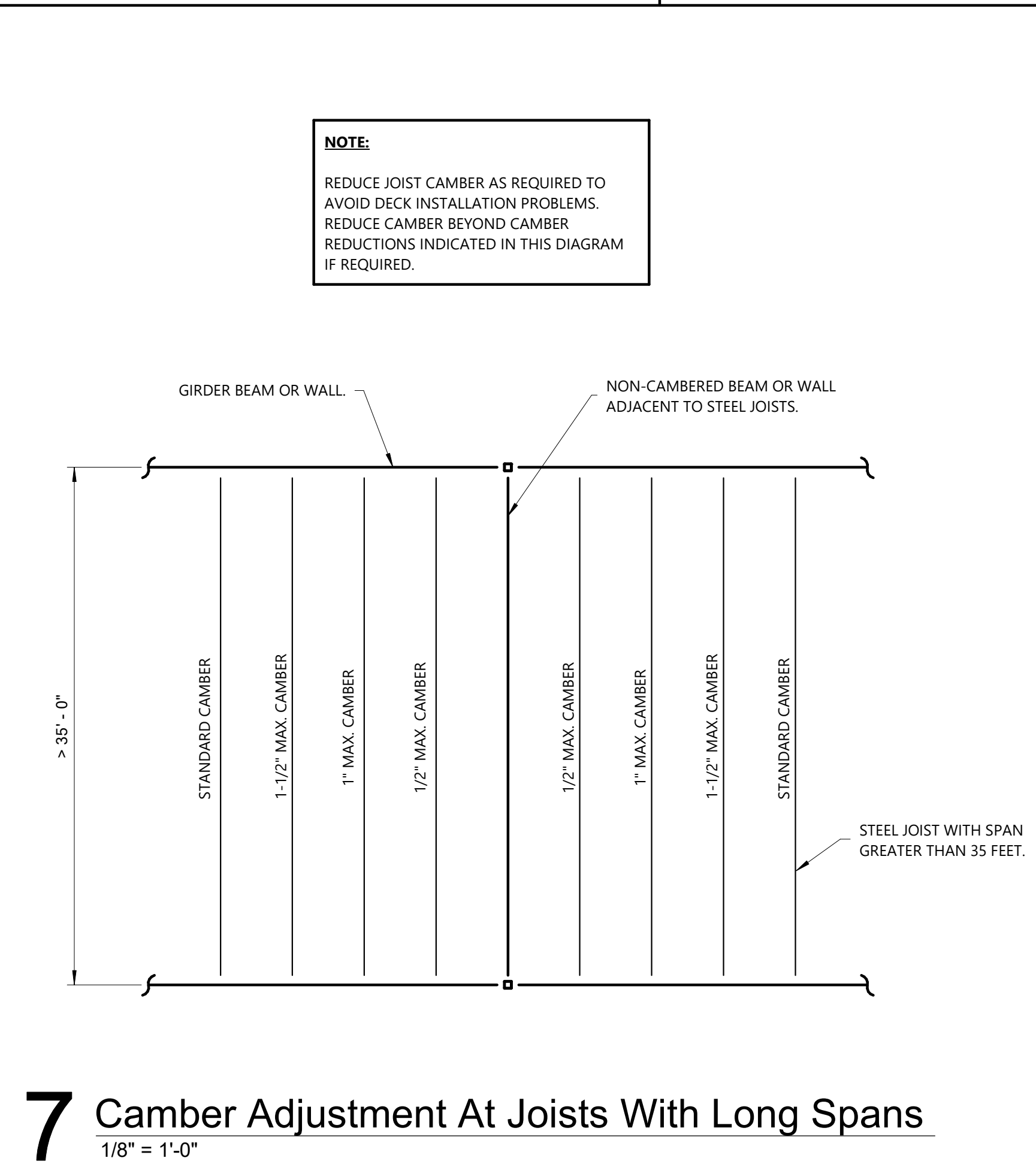
4 Detail At North Curtain Wall
1" = 1'-0"



5 Detail At Curtain Wall
1" = 1'-0"



6 Typ. Edge Beam Detail At Parapet
1" = 1'-0"



7 Camber Adjustment At Joists With Long Spans
1/8" = 1'-0"

NOTE:
REDUCE JOIST CAMBER AS REQUIRED TO AVOID DECK INSTALLATION PROBLEMS. REDUCE CAMBER BEYOND CAMBER REDUCTIONS INDICATED IN THIS DIAGRAM IF REQUIRED.

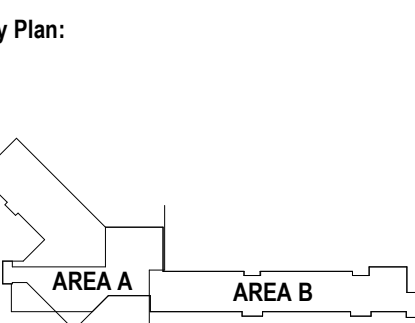
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- 1 CONTINUOUS EDGE MEMBER PER "TYPICAL EDGE ANGLE/BENT PLATE AT ROOF" DETAIL.
- 2 GALVANIZED METAL ROOF DECK. RE: PLANS AND DECK FASTENER TABLE FOR INFORMATION.
- 3 STEEL JOIST - SEE PLAN FOR SIZE.
- 4 STEEL BEAM - SEE PLAN FOR SIZE.
- 5 COLD-FORMED METAL RIGID CONNECTION DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. ATTACH TO STRUCTURE AS SHOWN AND PROVIDE CONNECTION WHICH TRANSFERS DEAD LOAD AND LATERAL LOAD. THE CONNECTION SHALL BE DESIGNED SUCH THAT RIGID CLIP TRANSFERS MOMENT TO WALL STUD AND ONLY SHEAR LOAD IS TRANSFERRED TO THE STRUCTURE. AT LOCATIONS WHERE CONNECTION IS INDICATED TO WEB OF STEEL BEAM, THE CONNECTION SHALL BE MADE AS CLOSE TO FLANGE OF BEAM AS POSSIBLE.
- 6 COLD-FORMED METAL SLIP CONNECTION DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. ATTACH TO STRUCTURE AS SHOWN AND PROVIDE VERTICAL SLIP PER SPECIFICATIONS. AT LOCATIONS WHERE CONNECTION IS INDICATED TO WEB OF STEEL BEAM, THE CONNECTION SHALL BE MADE AS CLOSE TO TOP FLANGE OF BEAM AS POSSIBLE.
- 7 HSS BEAM - SEE PLAN FOR SIZE AND ELEVATION.
- 8 BRACE ALL ROOF EDGE BEAMS TO EVERY JOIST USING AN L2 1/2x2 1/2x3/16 KICKER BRACE. FIELD WELD 3 SIDES EACH END. JOIST SUPPLIER SHALL DESIGN EACH JOIST FOR A 1700 POUND ASD-FACTORED BRACE FORCE (TENSION OR COMPRESSION) DUE TO WIND. ATTACHMENT TO JOIST SHALL BE AT PANEL POINT.
- 9 4"x4"x1/4" GUSSET PLATE. FIELD WELD TO BEAM OR JOIST TOP CHORD AT PANEL POINT LOCATION. PROVIDE CONTINUOUS 1/8" FILLET WELD ON BOTH SIDES OF GUSSET PLATE.
- 10 COLD-FORMED METAL WALL STUDS DESIGNED BY COLD-FORMED METAL FRAMING SUPPLIER. RE: ARCH. DRAWINGS FOR STUD DEPTH. SEE SPECIFICATION 05-4000 FOR MORE INFORMATION.
- 11 6" DEEP CFMF HORZ. STRUTS AT 48" O.C. TO TIE OUTER STUD TO INNER STUD AT DOUBLE STUD CONDITIONS AT EXTERIOR WALLS. PROVIDE DIAGONAL MEMBERS BETWEEN STUDS IF REQUIRED.
- 12 COLD-FORMED METAL SOFFIT STUDS AND CONNECTIONS TO BE DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER.

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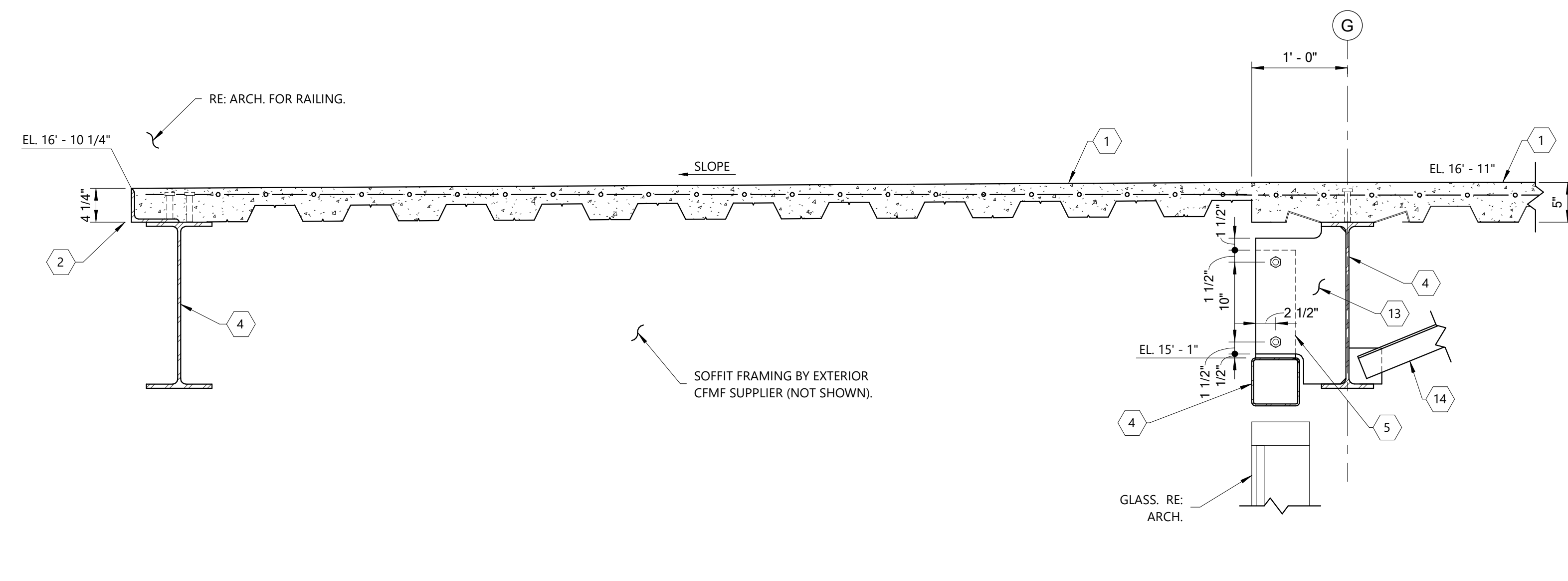
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Date: 10-26-2023
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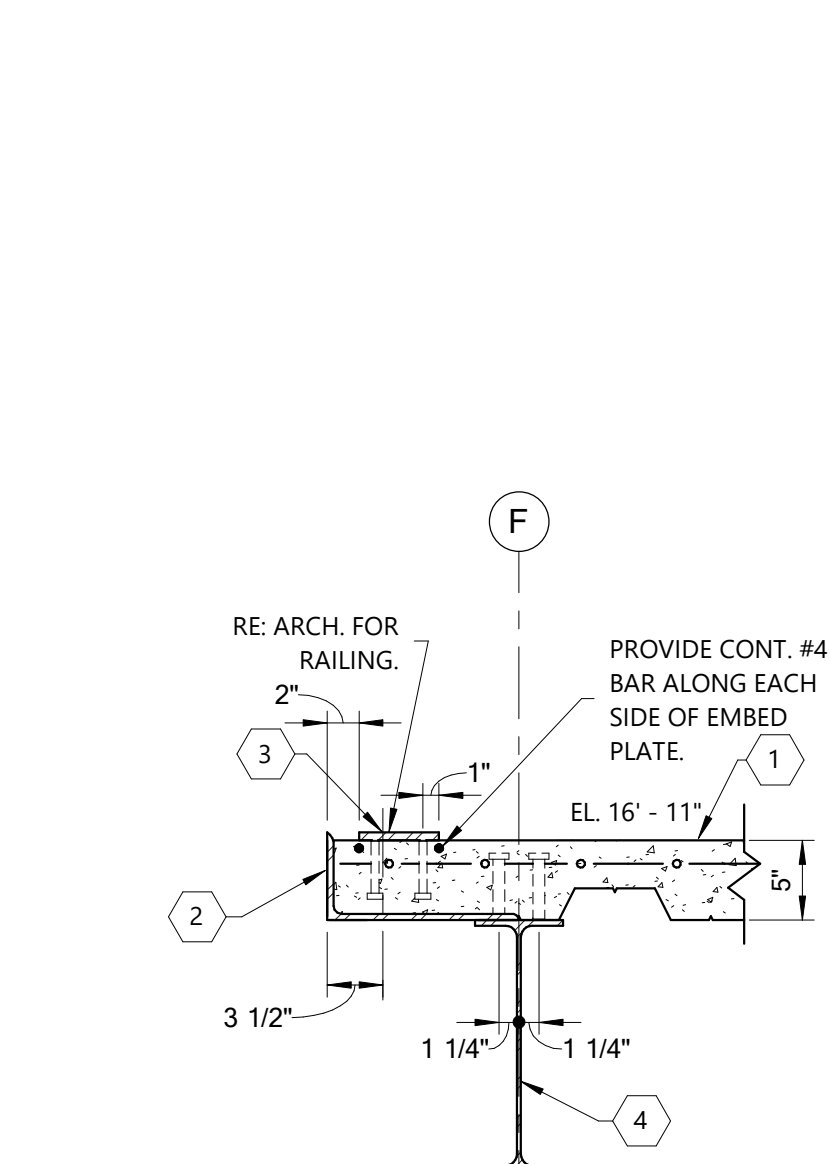


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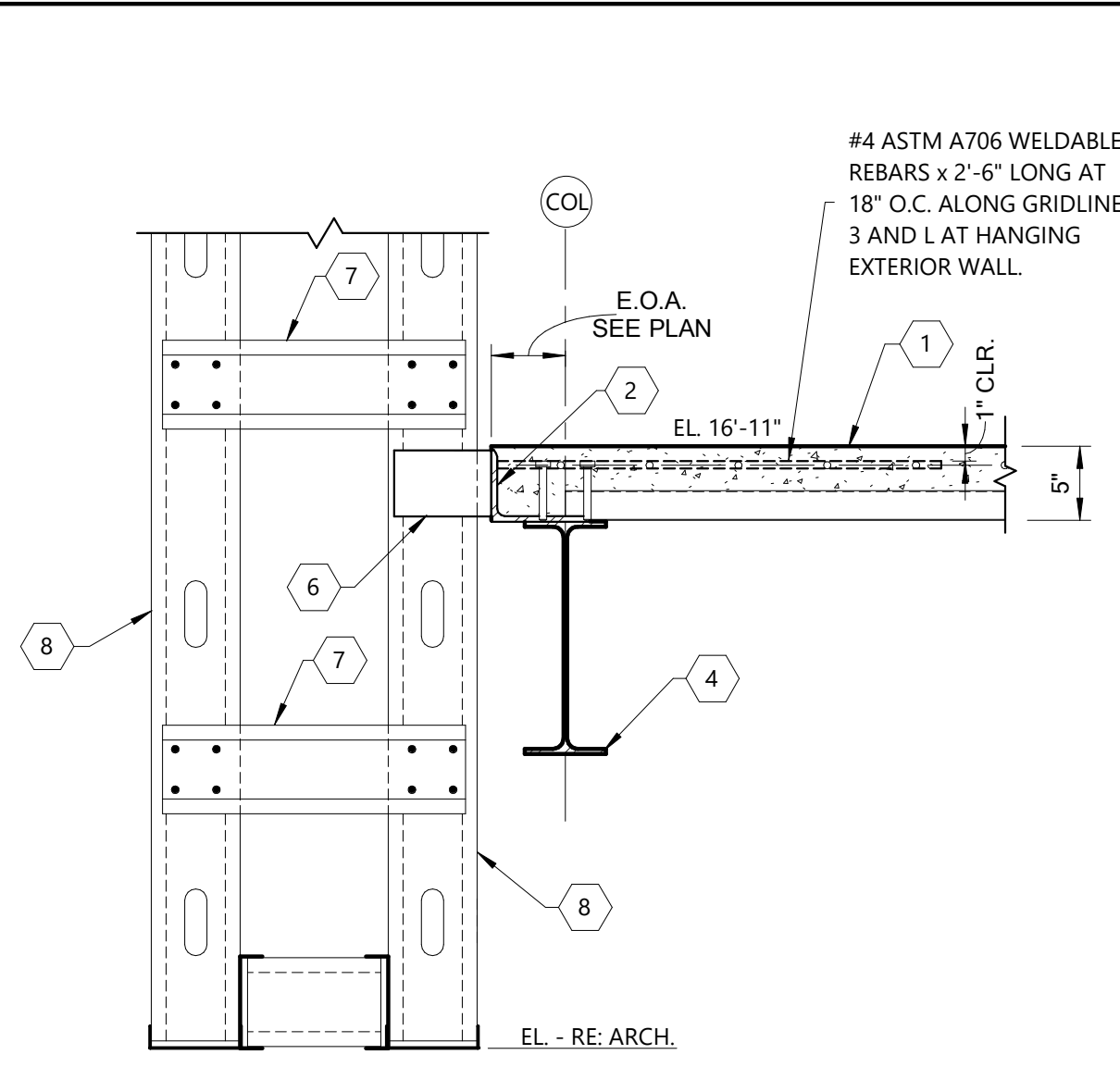
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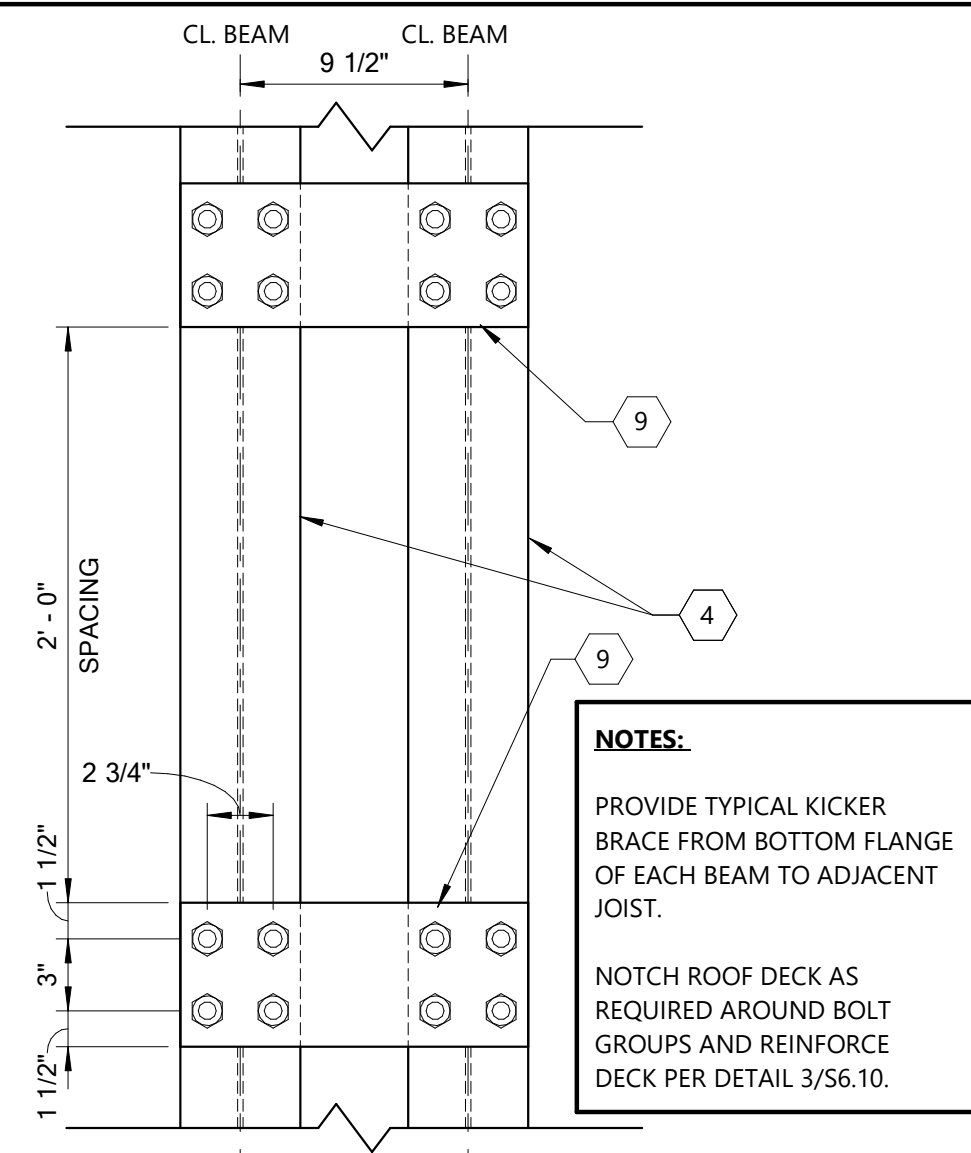
1 Detail At Covered Balcony
1" = 1'-0"



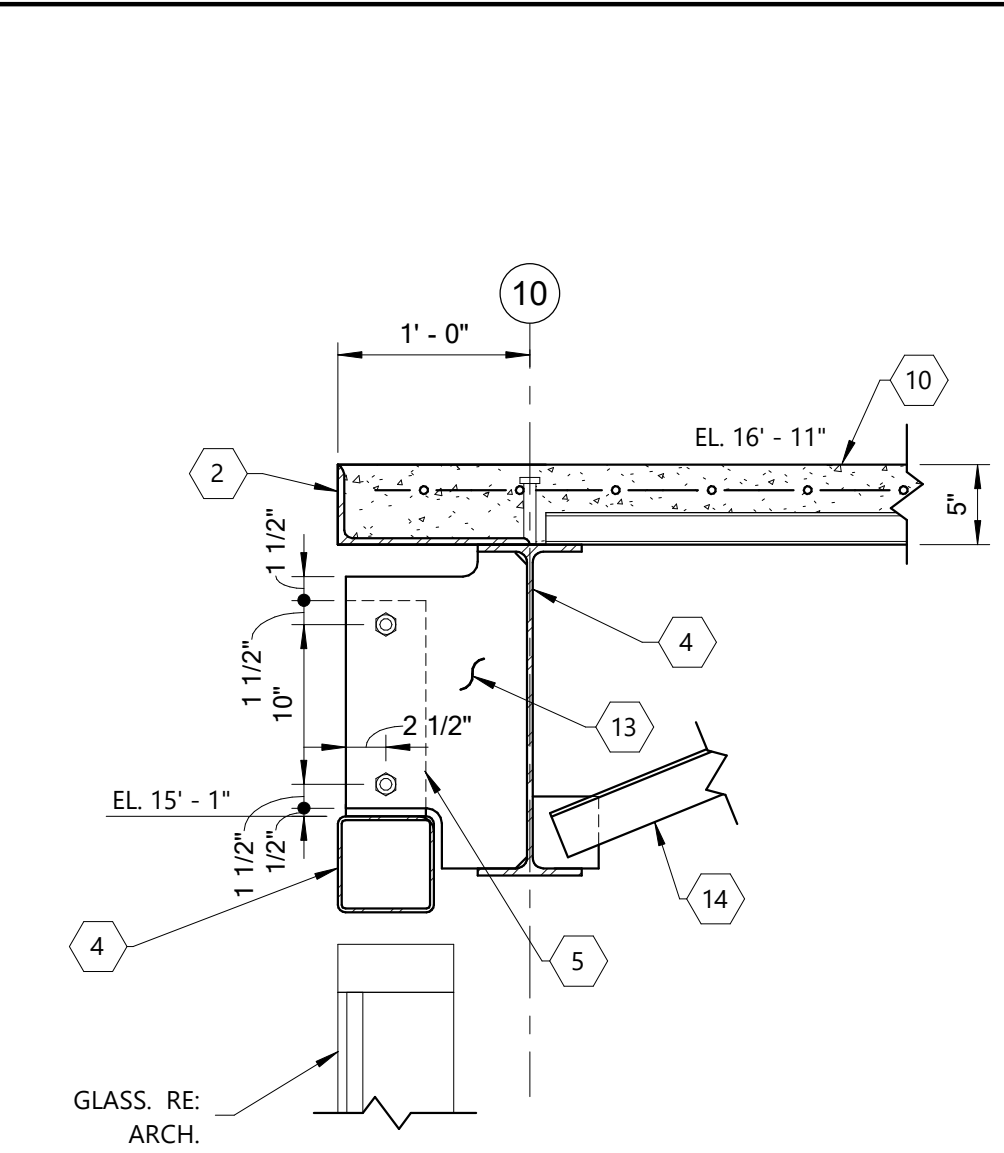
2 Rail At Floor Edge Beam
1" = 1'-0"



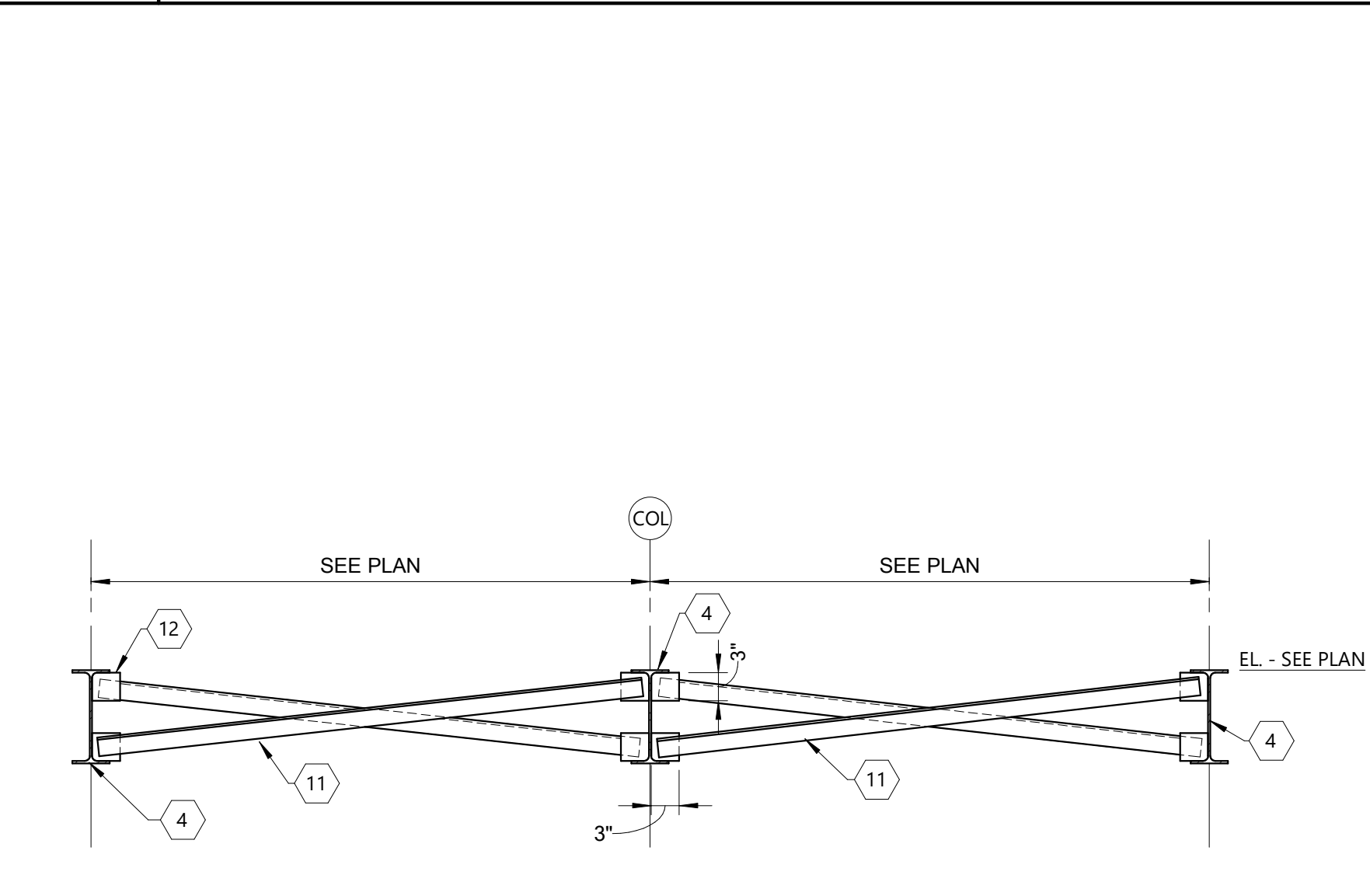
3 Floor Edge At Hanging Exterior Wall
1" = 1'-0"



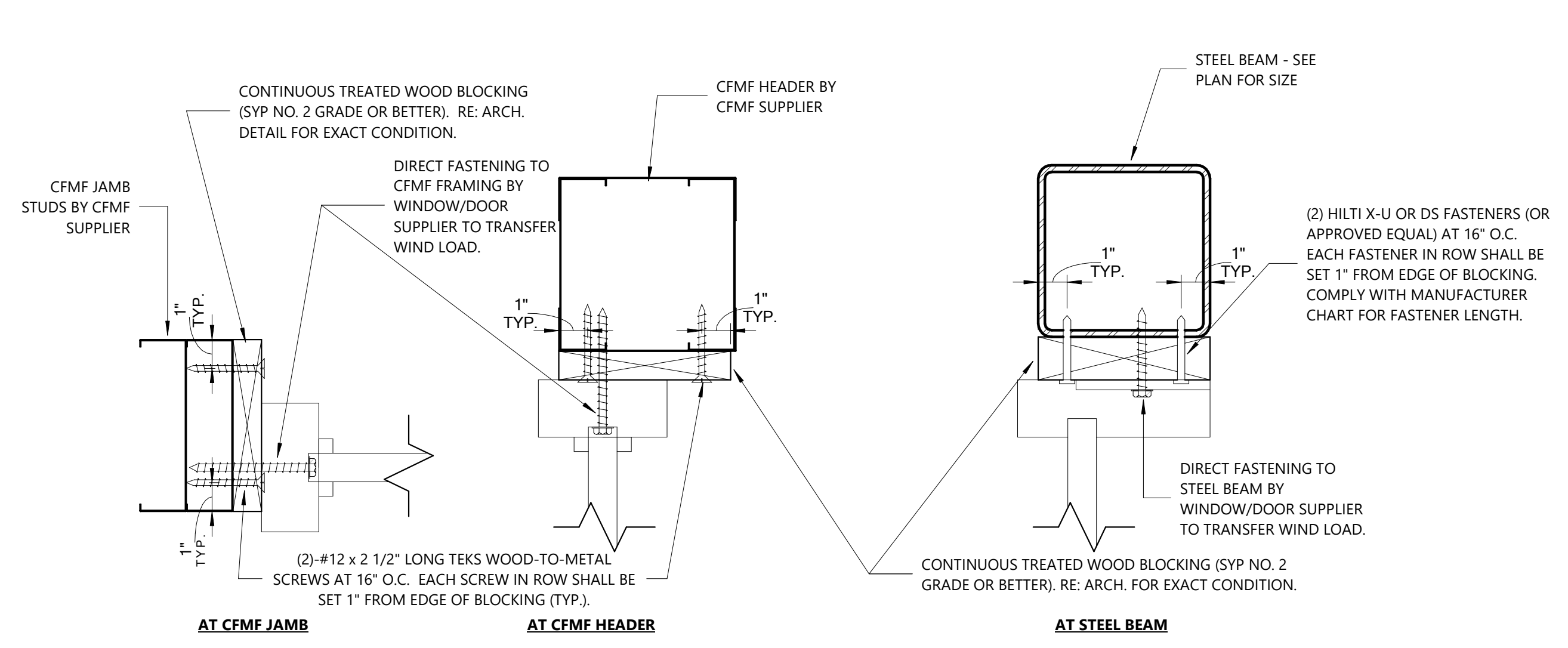
4 Double Beam Connection
1 1/2" = 1'-0"



5 Detail At Floor Edge
1" = 1'-0"



6 X-Bridging At Steel Beams
3/4" = 1'-0"



7 Window/Door Blocking Fastening
3" = 1'-0"

Keynote Legend

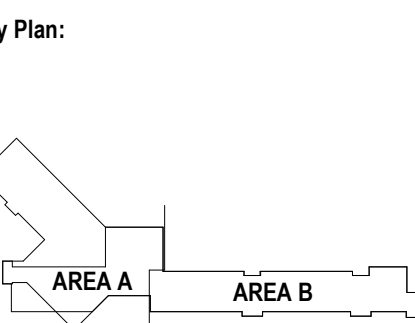
- 1 LIGHT WEIGHT CONCRETE FLOOR SLAB OVER METAL DECK. SEE PLAN FOR MORE INFORMATION.
- 2 CONTINUOUS EDGE MEMBER AROUND PERIMETER OF FLOOR. SEE TYPICAL DETAIL ON SHEET S6.11 FOR MORE INFORMATION.
- 3 CONT. 1/2" THICK x 5" WIDE EMBED PLATE WITH (2)-1/2" DIA. x 2 3/4" LONG HEADED STUDS AT 6" O.C.
- 4 STEEL BEAM - SEE PLAN FOR SIZE.
- 5 3/8" x 5" WIDE TAB PLATE WITH (2)-3/4" DIA. A325-TC BOLTS.
- 6 COLD-FORMED METAL RIGID CONNECTION DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. ATTACH TO STRUCTURE AS SHOWN AND PROVIDE CONNECTION WHICH TRANSFERS DEAD LOAD AND LATERAL LOAD. THE CONNECTION SHALL BE DESIGNED SUCH THAT RIGID CLIP TRANSFERS MOMENT TO WALL STUD AND ONLY SHEAR LOAD IS TRANSFERRED TO THE STRUCTURE. AT LOCATIONS WHERE CONNECTION IS INDICATED TO WEB OF STEEL BEAM, THE CONNECTION SHALL BE MADE AS CLOSE TO FLANGE OF BEAM AS POSSIBLE.
- 7 6" DEEP CFMF HORZ. STRUTS AT 48" O.C. TO TIE OUTER STUD TO INNER STUD AT DOUBLE STUD CONDITIONS AT EXTERIOR WALLS. PROVIDE DIAGONAL MEMBERS BETWEEN STUDS IF REQUIRED.
- 8 COLD-FORMED METAL WALL STUDS DESIGNED BY COLD-FORMED METAL FRAMING SUPPLIER. RE. ARCH. DRAWINGS FOR STUD DEPTH. SEE SPECIFICATION 05 4000 FOR MORE INFORMATION.
- 9 3/8" THICK PLATE WITH (8)-3/4" DIA. A325-TC BOLTS.
- 10 5" LIGHTWEIGHT CONCRETE ON 2VL1 18 GAGE METAL DECK. REINFORCE WITH WWF 4x4 W4.0/W4.0 CENTERED IN SLAB.
- 11 L2x2x1/4 X-BRACING. FIELD WELD (3) SIDES OF BRACE TO PLATE AT EACH END. SEE PLANS FOR BRACING LOCATIONS.
- 12 3/8" PLATE AT FLANGES - WELD ALL AROUND.
- 13 3/8" STIFFENER PLATE AT 48" O.C. MAX. SHOP WELD BOTH SIDES TO BEAM WEB.
- 14 PROVIDE L2 1/2x2 1/2x3/16 KICKER BRACE AT EACH STIFFENER LOCATION PER 1/56.12.



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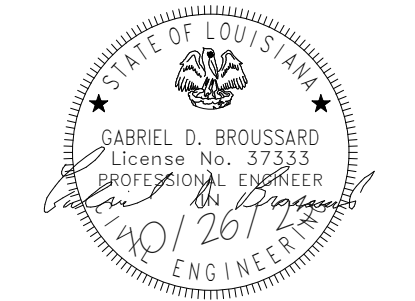
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GENERAL NOTES

A. APPLICABLE DESIGN CODES & MISCELLANEOUS

INTERNATIONAL BUILDING CODE 2021
AMERICAN CONCRETE INSTITUTE 318
AMERICAN INSTITUTE OF STEEL CONSTRUCTION

IBC CHAPTER 17 SPECIAL INSPECTIONS:

THE OWNER OR THE OWNER'S REPRESENTATIVE IS REQUIRED TO PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF IBC 2021. THE GENERAL CONTRACTOR IS REQUIRED TO ENGAGE AND ACCOMMODATE THE REQUIRED SPECIAL INSPECTIONS BY PROVIDING ACCESS TO ELEMENTS REQUIRED FOR INSPECTION AND BY NOTIFYING THE TESTING AGENCY 48 HOURS PRIOR TO A REQUIRED INSPECTION EVENT. THE CONTRACTOR SHALL PROVIDE REPORTS FROM THE TESTING AGENCY INDICATING COMPLIANCE WITH THE IBC REQUIREMENTS FOR:

- STEEL CONSTRUCTION (IBC 1705.2)
- CONCRETE CONSTRUCTION (IBC 1705.3)
- MASONRY CONSTRUCTION (IBC 1705.4)
- SOILS (IBC 1705.6)
- DRILLED SHAFTS (IBC 1705.8)
- SPRAYED FIRE-RESISTANT MATERIALS (IBC 1705.14)
- MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC 1705.15)

STRUCTURAL OBSERVATIONS:

STRUCTURAL OBSERVATIONS SHALL BE CONDUCTED BY THE ENGINEER OF RECORD TO ASSURE GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THESE OBSERVATIONS WILL NOT TAKE THE PLACE OF THE CODE REQUIRED SPECIAL INSPECTIONS LISTED ABOVE OR ANY OTHER INSPECTIONS REQUIRED BY THE LOCAL BUILDING OFFICIAL. NOTIFY ENGINEER OF RECORD AND ARCHITECT FOR STRUCTURAL OBSERVATION VIA EMAIL A MINIMUM OF 72 HOURS PRIOR TO ANY OF THE FOLLOWING EVENTS:

- INSTALLATION OF PILES AND /OR DRILLED SHAFTS
- ALL CONCRETE/GROUT POURS (WITH IDENTIFICATION OF SPECIFIC ELEMENTS TO BE POURED).
- COMMENCEMENT OF MASONRY WORK
- NEAR COMPLETION OF STRUCTURAL STEEL ERECTION.
- PLACEMENT OF INTERIOR SHEATHING COVERING COLD-FORMED METAL FRAMING.
- PLACEMENT OF ROOFING COVERING ROOF DECK.

FAILURE TO NOTIFY MAY REQUIRE REMOVAL OF COMPLETED WORK.

PROVIDE COMPREHENSIVE ELECTRONICALLY TRANSMITTED PHOTOS OF ANY REQUESTED WORK TO ENGINEER PRIOR TO ANY OF THE ABOVE EVENTS IN LIEU OF OBSERVATION IF DEEMED ACCEPTABLE BY ENGINEER.

B. DESIGN LOADS AND REQUIREMENTS SECTION

(1) FIRST FLOOR DESIGN LOADS

LIVE LOAD ----- 100 PSF (REDUCIBLE)
LIVE LOAD ----- 2000 LB (CONCENTRATED)

(2) SECOND FLOOR DESIGN LOADS

LIVE LOAD ----- 80 PSF (REDUCIBLE)
LIVE LOAD ----- 2000 LB (CONCENTRATED)

(3) ROOF DESIGN LOADS

LIVE LOAD ----- 20 PSF (REDUCIBLE)
LIVE LOAD ----- 300 LB (CONCENTRATED)
GROUND SNOW LOAD ----- 0 PSF
RAIN INTENSITY ----- 8.64 INCHES/HOUR

(4) LATERAL DESIGN - WIND

ASCE 7-10
ULTIMATE DESIGN WIND SPEED (V_{ult})----- 126 MPH
NOMINAL DESIGN WIND SPEED (V_{nd})----- 98 MPH
EXPOSURE CATEGORY ----- C
RISK CATEGORY ----- II
INTERNAL PRESSURE COEFFICIENT ----- +/-0.18
MWFRS - DIRECTIONAL PROCEDURE

(5) LATERAL DESIGN -SEISMIC

ASCE 7-10
IMPORTANCE FACTOR ----- 1.0
 S_s ----- 0.088g
 S_1 ----- 0.056g
SITE CLASS ----- D
 S_{oh} ----- 0.094g
 S_{ol} ----- 0.090g
SEISMIC DESIGN CATEGORY----- B
 C_s ----- 0.0314
DESIGN BASE SHEAR ----- 0.0314*W
R ----- 3

EQUIVALENT LATERAL-FORCE ANALYSIS METHOD. STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

C. GEOTECHNICAL

THE FOUNDATION AND SLAB DESIGN WAS BASED ON THE GEOTECHNICAL INVESTIGATION BY PREMIER GEOTECH AND TESTING, LLC DATED MAY 19, 2022. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE GEOTECHNICAL REPORT PRIOR TO BIDDING. A COPY OF THE GEOTECHNICAL REPORT IS AVAILABLE AT THE ARCHITECT'S OFFICE FOR REVIEW.

NET ALLOWABLE SOIL BEARING PRESSURE
ISOLATED SPREAD FOOTINGS ----- 1,200 PSF
CONTINUOUS (WALL) FOOTINGS ----- 1,200 PSF
MINIMUM BEARING DEPTH ----- 1'-6"
BELOW FINAL GRADE

TESTING AGENCY SHALL INSPECT FOUNDATION SUBGRADE FOR ADEQUACY TO ACHIEVE THE DESIGN BEARING CAPACITY PRIOR TO DRY BOTTOM PLACEMENT. NO PRECIPITATION EVENT SHALL OCCUR IN TIME BETWEEN SUBGRADE APPROVAL AND DRY BOTTOM PLACEMENT.

D. CONCRETE AND GROUT

CONCRETE MIXING, HANDLING, PLACING, AND CURING SHALL BE IN ACCORDANCE WITH ACI 301.

SEE THE "CONCRETE MIX REQUIREMENTS" TABLE FOR DESCRIPTIONS AND REQUIREMENTS OF CONCRETE TYPES.

FLY ASH IS NOT PERMITTED IN ANY CONCRETE FOR THIS PROJECT.

SLAG IS NOT PERMITTED IN ANY CONCRETE FOR THIS PROJECT.

ALL GROUT SHALL BE NON-SHRINK GROUT. THERE SHALL BE 2" NON-SHRINK GROUT BENEATH ALL COLUMN BASE PLATES.

ALL FLOOR DRAINS, DROPS, CURBS, ETC. SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

SEE EXPOSED DRAWINGS FOR LOCATIONS OF ALL FLOOR DRAINS. SLOPE GROUND FLOOR SLAB AND ELEVATED SLABS AT ALL FLOOR DRAINS AWAY FROM WALLS IN ROOM TO LOW POINT AT FLOOR DRAIN WHICH SHALL BE SET 1/2" BELOW FINISHED FLOOR OF SLAB, UNLESS NOTED OTHERWISE.

THE TOP 5" OF BOTH SIDES OF ALL GRADE BEAMS SHALL BE WOOD FORMED. ALL SPREAD FOOTINGS SHALL BE EARTH FORMED - UNLESS NOTED OTHERWISE.

ALL EXPOSED SURFACES OF CONCRETE WALLS, FOUNDATION EDGES, AND SLAB EDGES SHALL BE PLYWOOD FORMED AND COATED WITH A REPAIR MORTAR.

RANDOM TRAFFIC FLOOR FINISH TOLERANCES (F_f AND F_l) FOR SLABS ARE TO MEET SPECIFIED OVERALL FLATNESS OF SOF_f = 35 AND SPECIFIED OVERALL LEVELNESS OF SOF_f = 25 WITH MINIMUM LOCAL VALUES OF MLF_f = 21 AND MLF_f = 15, AS EXPRESSED IN ACI 117, SECTION 4, AND MEASURED WITHIN 72 HOURS IN ACCORDANCE WITH ASTM E 115.

THE CONTRACTOR SHALL INCLUDE IN THE BID THE COMPLETE COST OF AN ADDITIONAL 10 CUBIC YARDS OF UNSCHEDULED 4000 PSI STRUCTURAL FOUNDATION/SLAB CONCRETE FOR MISCELLANEOUS USE TO BE DELIVERED, PLACED, FORMED, AND FINISHED AS DIRECTED BY STRUCTURAL ENGINEER.

VERIFY ALL SLAB EDGE DIMENSIONS AT DOORS AND FULL-HEIGHT WINDOWS WITH ARCHITECTURAL DRAWINGS PRIOR TO SETTING OF GROUND FLOOR SLAB EDGE FORMS. AT LOCATIONS WHERE SLAB EDGE EXTENDS PAST OUTSIDE EDGE OF DOOR OR FULL-HEIGHT WINDOW, SLOPE SLAB DOWN 1/4" FROM OUTSIDE FACE OF DOOR WINDOW TO SLAB EDGE, UNLESS NOTED OTHERWISE.

E. CONCRETE REINFORCEMENT

ALL REBARS SHALL BE GRADE 60 (F_y = 60,000 PSI MIN.)

VAPOR RETARDER AT GROUND FLOOR SLABS TO BE 15 MIL. WITH TAPED JOINTS. REFERENCE SPECIFICATIONS FOR CAST-IN-PLACE CONCRETE FOR ADDITIONAL INFORMATION.

HOOK ALL GRADE BEAM TOP AND BOTTOM BARS AT THE END OF THE GRADE BEAM.

PROVIDE (2)-#6 L BARS (a=36", b=36") ONE TOP AND ONE BOTTOM AT THE OUTSIDE FACE OF ALL GRADE BEAM CORNERS.

PROVIDE (4)-#6 L BARS (a=36", b=36") TWO TOP AND TWO BOTTOM AT ALL GRADE BEAM INTERSECTIONS.

PROVIDE #5 L BARS (a=18", b=18") AT CORNER OF ELEVATOR PIT WALLS. SPACE BARS WITH ALL HORIZONTAL WALL REINFORCEMENT.

PROVIDE HORIZONTAL #4 (a=24", b=24") CORNER BARS AT ALL CONCRETE WALL CORNERS TO LAP WITH WALL REINFORCING BARS, U.N.O.

ALL WELDED WIRE MESH SHALL HAVE 12" MIN. LAP BETWEEN SHEETS.

PLACE AND SECURE ALL EMBEDDED ITEMS INCLUDING REINFORCING DOWELS, ANCHOR BOLTS, FORM SAVER DOWELS AND EMBED PLATES PRIOR TO PLACING OF CONCRETE. **DO NOT WET STICK ANY OF THESE ITEMS.** UNLESS NOTED OTHERWISE HEREIN OR PERMITTED BY ENGINEER OF RECORD IN WRITING. THIS DOES NOT APPLY TO SINGLE-BAR REINFORCEMENT IN DRILLED SHAFTS.

THE CONTRACTOR SHALL INCLUDE IN THE BID THE COMPLETE COST OF AN ADDITIONAL 200 POUNDS OF UNSCHEDULED ASTM A615 GRADE 60 REBAR FOR MISCELLANEOUS USE TO BE FABRICATED, DELIVERED, PLACED, AND TIED AS DIRECTED BY STRUCTURAL ENGINEER.

F. STRUCTURAL STEEL

STRUCTURAL STEEL MEMBERS SHALL BE MADE USING THE FOLLOWING GRADES:

WIDE FLANGE SHAPES ----- ASTM A-992
HSS ----- ASTM A500, GRADE C
PIPES ----- ASTM A53, TYPE E OR S
PLATE, BARS, & ANGLES ----- ASTM A36

ALL STRUCTURAL STEEL SHALL BE FABRICATED, COATED, AND ERECTED AS PER THE AISC SPECIFICATIONS.

ALL WELDS SHALL BE WITH E70XX ELECTRODES AND IN ACCORDANCE WITH AWS STANDARDS. MINIMUM FILLET WELD SIZE SHALL BE 1/4" - U.N.O. FOULING ELEMENTS SUCH AS PAINT, OIL, GREASE, OR OTHER CONTAMINANTS SHALL BE REMOVED AT ALL WELDED CONNECTIONS PRIOR TO WELDING.

ALL FRAMING CONNECTIONS SHALL BE MADE WITH THE MAXIMUM NUMBER OF ROWS OF 3/4" A325-N TENSION CONTROL BOLTS FOR GIVEN BEAM DEPTH. - U.N.O.

ALL TUBULAR STEEL COLUMNS SHALL HAVE 1/2" CAP PLATES - U.N.O.

PROVIDE CONTINUOUS 5/16" THICK BENT PLATE OR ANGLE AROUND PERIMETER OF ALL FLOOR EDGES INCLUDING STAIRS, ELEVATORS, MECH. PENETRATIONS, ETC.

THE CONTRACTOR SHALL ASSURE THAT THE STRUCTURE HAS BEEN ERECTED TRUE AND SUITABLE TEMPORARY BRACING AND GUVS SHALL BE INSTALLED TO MAINTAIN SAID TRUENESS. THE STRUCTURAL STEEL FRAMEWORK SHALL BE BRACED OR GUYED UNTIL FINAL ERECTION IS COMPLETE AND DECKING AND PERMANENT BRACES HAVE BEEN ERECTED.

THE STEEL FABRICATOR SHALL PROVIDE AN ALLOWANCE IN HIS BASE BID FOR A TOTAL OF FOUR TONS OF ADDITIONAL ERECTED MISCELLANEOUS STEEL AS DEEMED NECESSARY BY STRUCTURAL ENGINEER. THIS ALLOWANCE SHALL COVER ALL DETAILING, FABRICATION, MATERIALS, PAINTING, DELIVERY, ERECTION, COATINGS, AND OTHER ASSOCIATED COSTS. THE EXACT SIZE AND QUANTITY OF STEEL MATERIAL SHALL BE SELECTED BY THE STRUCTURAL ENGINEER AS REQUIRED. DEDUCTIONS FROM STEEL ALLOWANCE SHALL BE MADE IN TERMS OF WEIGHT OF MATERIAL ADDED. ANY UNUSED PORTIONS OF THIS ALLOWANCE SHALL BE CREDITED BACK TO THE OWNER AT THE RATE OF \$8,000.00 PER TON.

CONTRACTOR TO PROVIDE GALVANIZED STEEL LINTELS AS REQUIRED TO SUPPORT BRICK, AND/OR MASONRY VENEER ABOVE ALL OPENINGS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE (UNLESS NOTED OTHERWISE):

CLEAR OPENING	ANGLE SIZE
0 TO 4'	L4x4x1/4 LLV
4' TO 9'	L6x4x3/8 LLV
9' TO 12'	L7x4x3/8 LLV

LINTEL ANGLES SUPPORTING BRICK AND/OR MASONRY VENEER SHALL HAVE A MINIMUM BEARING SUPPORT LENGTH OF 8" AT EACH END. VENEER SHALL BEAR A MINIMUM ON 2-1/2" ON HORIZ. LEG OF LINTEL.

ANY STEEL NOT SHOWN ON DRAWINGS THAT IS REQUIRED FOR ELEVATORS SHALL BE PROVIDED BY THE CONTRACTOR.

ALL STRUCTURAL STEEL INDICATED ON PLANS AS GALVANIZED (OR GALV) SHALL BE HOT-DIP GALVANIZED PER THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. TOUCH UP ALL BREAKS IN GALVANIZE WITH A ZINC RICH COLD GALVANIZE COMPOUND PER 051200 SPECIFICATIONS.

PRE-ENGINEERED STAIRS:

PROVIDE PRE-ENGINEERED STEEL METAL STAIRS AND RAILS WITH CONCRETE FILLED METAL PAN RISERS AND INTERMEDIATE STAIR LANDING. DESIGN STRINGERS FOR L/360 TOTAL DEFLECTION. DESIGN STAIRS AND RAILS FOR ALL REQUIRED LOADS ACCORDING TO IBC 2021. PROVIDE COLUMNS TO SUPPORT STAIR LANDING PER ARCHITECTURAL PLANS. PLACE COLUMN BASE PLATE DIRECTLY ON SLAB. ANCHOR TO SLAB WITH (4) POST INSTALLED ANCHORS. PROVIDE STAMPED DRAWINGS AND CALCULATIONS BY CIVIL ENGINEER LICENSED IN LOUISIANA.

EXPOSED STRUCTURAL STEEL:

ALL FABRICATION/MILL MARKS SHALL BE REMOVED OR NOT APPARENT ON EXPOSED STRUCTURAL STEEL.

ALL WELDS SHALL BE UNIFORM AND SMOOTH ON EXPOSED STRUCTURAL STEEL.

WHERE INDICATED ON PLAN AS "AESS", THE MEMBERS SHALL BE TREATED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL AND COMPLY WITH SECTION 10 OF 2016 AISC CODE OF STANDARD PRACTICE (ANSI/AISC 303-16). ALL AEISS SHALL BE CATEGORY AESS 3 (MIN.), UNLESS NOTED OTHERWISE.

G. OPEN WEB STEEL "BAR" JOISTS

ALL JOISTS SHALL BE CONNECTED TO SUPPORTS BY WELDING AS PER THE STEEL JOIST INSTITUTE REQUIREMENTS.

FABRICATION, COATING AND ERECTION OF ALL JOISTS SHALL BE IN ACCORDANCE WITH SJI SPECIFICATIONS.

ALL ROOF JOISTS AND THEIR CONNECTIONS TO SUPPORTING STRUCTURE SHALL BE DESIGNED FOR A NET UPLIFT ACCORDING TO THE ROOF WIND PRESSURE TABLE ON SHEET S7.11. SEE NOTE 6 IN PRESSURE TABLE. 5 PSF MAY BE ASSUMED FOR 0.6D TERM IN ASD LOAD COMBINATIONS.

THE JOIST SEAT AND CONNECTION TO SUPPORTING STRUCTURE OF ALL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED TO TRANSMIT AN ASD-FACTORED LATERAL ROLLOVER FORCE OF 2000 POUNDS FROM THE DECK TO THE SUPPORTING STRUCTURE.

BRIDGING FOR BAR JOISTS SHALL BE AS REQUIRED BY SJI, UNLESS NOTED OTHERWISE.

ONE BAY OF X-BRIDGING (ANGLE 1 1/2"x 1 1/2" x 7/64") SHALL BE PROVIDED AT EACH END OF ALL BRIDGING ROWS UNLESS NOTED OTHERWISE ON PLANS. BRIDGING SHALL BE PROVIDED BY JOIST SUPPLIER.

ALL MECHANICAL EQUIPMENT SUSPENDED FROM OR RESTED ON BAR JOISTS AT POINT LOCATIONS SHALL BE DONE AT A PANEL POINT LOCATION OF THE JOIST. THE STEEL SUPPLIER SHALL PROVIDE ADDITIONAL 1 1/2 x 1 1/2 x 3/16 ANGLES (EACH SIDE OF JOIST WEB) FROM THE POINT OF LOADING TO THE NEAREST PANEL POINT AT LOCATIONS WHERE CONCENTRATED LOADS OCCUR MORE THAN 3' OFF OF PANEL POINTS.

ALL ROOF JOISTS (AND JOIST CONNECTIONS) BEARING ON ROOF EDGE BEAMS SHALL BE DESIGNED TO TRANSFER AN ASD-FACTORED LATERAL AXIAL FORCE PARALLEL TO JOIST OF 2400 POUNDS (DUE TO WIND ON EXTERIOR WALL) FROM THE TOP OF THE EDGE BEAM TO THE ROOF DECK DIAPHRAGM.

ALL ATTACHMENTS MADE TO JOISTS SHALL BE MADE IN A CONCENTRIC MANNER SUCH THAT TWISTING IS NOT INDUCED INTO THE JOIST. (E.G. ONE-SIDED CLAMP CONNECTIONS ARE NOT ACCEPTABLE).

FOR JOIST SUPPORT OF MEP PIPES 4" IN DIAMETER OR GREATER RUNNING PERPENDICULAR TO JOISTS, PROVIDE PIPE SUPPORT ATTACHMENTS AT EVERY JOISTS ALONG THE PIPE RUN.

FOR JOIST SUPPORT OF MEP PIPES 4" IN DIAMETER OR GREATER RUNNING PARALLEL TO JOISTS, PROVIDE A UNISTRUT TYPE TRAPEZE HANGER ASSEMBLY WHICH ENGAGES A MINIMUM OF TWO JOISTS AT EACH SUPPORT LOCATION. PROVIDE SUPPORTS FOR PIPES AT 48" ON CENTER MAXIMUM SPACING ALONG EACH JOIST.

H. METAL DECKING

ALL METAL DECK SHALL BE FABRICATED AND ERECTED AS PER THE STEEL DECK INSTITUTE'S STANDARDS AND THE MANUFACTURER'S SPECIFICATIONS.

SEE THE "METAL DECKING REQUIREMENTS" TABLE FOR DESCRIPTION OF METAL DECKING.

Puddle welds (if specified) that burn through decking are not acceptable, and shall be repaired.

ALL FLOOR AND ROOF OPENINGS AND OTHER SUCH REQUIREMENTS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

J. MASONRY

ALL MASONRY WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AND TMS 402/ACI 530 JASCE 5.

PROVIDE FULL HEIGHT REINFORCED CONCRETE FILLED CELLS ON BOTH SIDES OF ALL DOOR OPENINGS, WINDOWS, AND WALL ENDS. PROVIDE THREE (3) REINFORCED, FILLED CELLS AT ALL CORNERS, (ONE AT CORNER AND ONE IN EACH DIRECTION). PROVIDE SIMILAR REINFORCED, FILLED CELLS AT ALL WALL-TO-WALL INTERSECTIONS (E.G. PROVIDE FOUR REINFORCE, FILLED CELLS AT T-INTERSECTIONS).

PROVIDE #5 CORNER BARS L BARS (a=24", b=24") AT ALL U-BLOCK INTERSECTIONS. THE ALL HORIZONTAL U-BLOCK REINFORCEMENT AT CORNERS AND INTERSECTIONS.

PROVIDE CONCRETE MASONRY UNITS PER ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY (f_m) = 2000 PSI. USE ONLY TYPE S MORTAR AND LADDER STYLE JOINT REINFORCEMENT.

USE A MAXIMUM GROUT POUR/LIFT HEIGHT = 5'-4".

ALL VERTICAL REINFORCEMENT BARS SHALL EITHER BE CONTINUOUS OR LAP SPLICED (30" MIN. LAP) AND TIED WITH WIRE AT BOTH ENDS OF LAP. ALL SPLICES SHALL HAVE THEIR ENTIRE LENGTH OCCUR WITH-IN A SINGLE GROUT POUR.

DO NOT PLACE LAPS FOR HORIZONTAL BARS IN U-BLOCKS OVER OPENINGS. PROVIDE A 24" MINIMUM LAP SPICE FOR #5 HORIZONTAL BARS.

JOINT REINFORCEMENT SHALL BE LADDER STYLE CONFORMING TO ASTM A 951. SIDE RODS AND CROSS WIRE SHALL BE 9 GAUGE OR 0.148 INCH DIAMETER. LAP JOINT REINFORCEMENT A MINIMUM OF 12". PLACE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAXIMUM VERTICAL SPACING.

PROVIDE WIRE-BOND CORELOCK REBAR POSITIONERS (OR APPROVED EQUAL) TO SECURE VERTICAL WALL REINFORCEMENT IN PROPER LOCATION AS NOTED ON PLANS. PROVIDE A MINIMUM OF ONE POSITIONER PER JOIST LIFT.

FOR FILLED CELLS BELOW U-BLOCKS, CELLS SHALL BE FILLED UP TO BOTTOM OF U-BLOCK, PRIOR TO PLACEMENT OF U-BLOCK.

PROVIDE 8" DEEP CONTINUOUS U-BLOCK REINFORCED WITH (2)-#5 CONTINUOUS AT THE TOP OF ALL CMU WALL, UNLESS NOTED OTHERWISE.

K. COLD-FORMED METAL FRAMING

COLD-FORMED METAL FRAMING SUPPLIER MUST PROVIDE SECTIONS MEETING THE PRODUCT STANDARDS AND QUALITY STANDARDS SET BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

COLD-FORMED METAL FRAMING MEMBER SIZING DESIGNATIONS ARE PER THE NOMENCLATURE ESTABLISHED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). SEE THE FOLLOWING EXAMPLE:

800S200-43

800 = MEMBER DEPTH TO TWO DECIMAL PLACES = 8.00"
S = MEMBER TYPE, STUD OR JOIST
200 = FLANGE WIDTH TO TWO DECIMAL PLACES = 2.00"
43 = MINIMUM DESIGN THICKNESS OF THE METAL IN MILS

ALL COLD-FORMED METAL FRAMING MEMBERS SHALL HAVE MINIMUM THICKNESS OF 43 MILS, U.N.O.

PROVIDE BRIDGING AND END BLOCKING FOR ALL JOIST SPANS. SIZE AND SPACING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ALL CONDUIT AND OTHER PENETRATIONS IN WALL STUDS SHALL BE MADE THRU THE TYPICAL OVAL PUNCHOUT IN THE STUD. IF LARGER OPENINGS ARE REQUIRED, THE GENERAL CONTRACTOR SHALL COORDINATE BETWEEN MECHANICAL/ELECTRICAL SUBCONTRACTORS AND THE COLD-FORMED METAL FRAMING ENGINEER TO ENSURE THAT THE OPENINGS ARE PROPERLY CONSIDERED IN DESIGN.

COLD-FORMED METAL FRAMING SUPPLIER SHALL DESIGN AND PROVIDE STUD FRAMING AS REQUIRED TO SUPPORT PRE-MANUFACTURED ALUMINUM CANOPIES AT EXTERIOR. GENERAL CONTRACTOR TO COORDINATE WITH CANOPY SUPPLIER TO PROVIDE LOADING AND ASSURE PROPER CONNECTIVITY. CONNECTION OF CANOPIES TO COLD-FORMED METAL FRAMING SHALL BE SHOWN ON BOTH ALUMINUM CANOPY SHOP DRAWINGS AND COLD-FORMED METAL FRAMING SHOP DRAWINGS.

NO SPLICES IN STUDS, JOISTS, BEAMS, HEADERS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH REVISION TO THE ORIGINAL DESIGN.

ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS. STUD ENDS MUST SEAT TIGHTLY INTO TRACKS IN ALL BEARING APPLICATIONS.

L. NOTICE

THE USE OF REPRODUCTION OF THESE CONTRACT DRAWINGS BY THE CONTRACTOR, SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARED SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY BE PRESENT HEREON.

IN THE EVENT OF CONFLICTING OR DIFFERING REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS THAT HAVE NOT BEEN CLARIFIED OR CHANGED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY, GREATER QUANTITY, OR MORE STRINGENT UNLESS DIRECTED OTHERWISE BY ARCHITECT/ENGINEER.

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, EXCEPT WHERE SPECIFIC REQUIREMENTS ARE PROVIDED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, EXCAVATION PROTECTION, SCAFFOLDING, JOB SITE SAFETY, ETC. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES OF CONSTRUCTION.

FIELD VERIFICATIONS

CONTRACTOR TO FIELD MEASURE ALL NEEDED DIMENSIONS PRIOR TO ORDERING MATERIAL.

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DETAILS, GEOMETRY, DIMENSIONS, AND ELEVATIONS PRIOR TO ORDERING/FABRICATION OF MATERIALS. CONTACT ARCHITECT AND ENGINEER IMMEDIATELY IF ANY DIMENSIONS, DETAILS, OR ELEVATIONS ARE NOT FOUND TO MATCH THOSE SHOWN ON THE PLANS.

ABBREVIATIONS

@	-----	AT
A/E	-----	ARCHITECT/ENGINEER
A.F.F.	-----	ABOVE FINISHED FLOOR
ARCH.	-----	ARCHITECTURAL
BF	-----	BRACED FRAME
BM	-----	BEAM
B.O.C.	-----	BEAM ON COLUMN
B.O.S.	-----	BOTTOM OF STEEL
BOT.	-----	BOTTOM
BTM.	-----	BOTTOM
C.F.M.F. OR CFMF	-----	COLD-FORMED METAL FRAMING
C.I.P.	-----	CAST-IN-PLACE
C.G OR CG	-----	CENTER OF GRAVITY
CJP	-----	COMPLETE JOINT PENETRATION
C.L. OR CL	-----	CENTER LINE
C.O.B.	-----	COLUMN ON BEAM
COL	-----	COLUMN
CONT.	-----	CONTINUOUS
CONN.	-----	CONNECTION
EL	-----	ELEVATION
ELEV.	-----	ELEVATION
ELEC.	-----	ELECTRICAL
E.O.A.	-----	EDGE OF ANGLE
E.O.R.	-----	ENGINEER OF RECORD
E.O.S.	-----	EDGE OF SLAB
EXIST.	-----	EXISTING
F.F.	-----	FINISH FLOOR
FIN. FLR.	-----	FINISH FLOOR
GA	-----	GAGE
GC	-----	GENERAL CONTRACTOR
GL	-----	GLUE-LAMINATED
GR. BM.	-----	GRADE BEAM
HI	-----	DETAIL APPLIES HIGH
H.S.A. OR HSA	-----	HEADED STUD ANCHOR
H.S.A.S.	-----	HEADED STUD ANCHORS
HSS	-----	HOLLOW STRUCTURAL SECTION
LO	-----	DETAIL APPLIES LOW
M.B.S.	-----	METAL BUILDING SUPPLIER
MECH.	-----	MECHANICAL
MEP	-----	MECHANICAL, ELECTRICAL, PLUMBING
O.C.	-----	ON CENTER
O.C.E.W.	-----	ON CENTER EACH WAY
OPP.	-----	OPPOSITE
PL	-----	PLATE
REINF.	-----	REINFORCEMENT
RTU	-----	ROOF TOP UNIT
SIM.	-----	SIMILAR
STR.	-----	STRENGTH
T.O.	-----	TOP OF
T.O.C.	-----	TOP OF CONCRETE
T.O.J.	-----	TOP OF JOIST
T.O.S.	-----	TOP OF SLAB
U.N.O.	-----	UNLESS NOTED OTHERWISE
V.O.J.	-----	VERIFY ON JOBSITE
W/	-----	WITH
WF	-----	WIDE FLANGE
WWF	-----	WELDED WIRE FABRIC

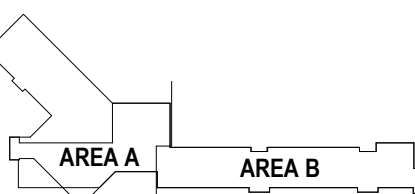


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Key Plan:



Consultants:

Phase:

Bid Documents

CONCRETE MIX REQUIREMENTS

USAGE	AGGREGATE	MIN. CEMENT (lb/yd)	SLUMP (inches)	7 DAY STR. (psi)	28 DAY STR. (psi)	WATER REDUCER	REMARKS
DRILLED SHAFTS	①	489	7	2000	3000	(A) OR (C)	
GRADE BEAMS	①	489	4	2000	3000	(B)	
PEDESTALS	①	489	4	2000	3000	(B)	
SLAB ON GRADE	①	545	7	2700	4000	(A)	
SLAB ON DECK	②	611	7	2000	3000	(A)	
WALLS	①	545	7	2700	4000	(A)	
DRY BOTTOMS					500		
FLOWABLE FILL				---	2000		
ALL OTHERS	①	545	7	2700	4000	(A)	

① REGULAR SAND AND GRAVEL (145 pcf)

② LIGHT WEIGHT CONCRETE (114 TO 120 pcf)

③ REGULAR SAND AND PEA GRAVEL (145 pcf)

④ REGULAR SAND (145 pcf)

(A) MID-RANGE WATER REDUCER

(B) CONTRACTOR'S OPTION - IF WATER REDUCER IS USED, THEN SLUMP SHALL BE 7".

(C) SUPER PLASTICIZER

NOTES:

THE SLUMP IN THE TABLE ABOVE IS GIVEN AT POINT OF PLACEMENT. THE ALLOWABLE TOLERANCE FOR SLUMP IS PLUS OR MINUS ONE INCH FROM THE VALUES GIVEN IN THE TABLE.

IF SUPER PLASTICIZER IS USED, THE SLUMP SHALL BE 3" PRIOR TO ADDITION OF THE SUPER PLASTICIZER. DO NOT USE SUPER PLASTICIZER IN SLABS.

CONCRETE NOT MEETING THE SPECIFIED SEVEN DAY STRENGTH SHALL EITHER BE REMOVED OR CONSTRUCTION MUST BE STOPPED IN THE QUESTIONABLE AREA UNTIL THE 28 DAY TEST VALUES HAVE BEEN APPROVED.

SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

REFERENCE SPECIFICATION SECTION 03 3000- FOR PROPORTIONING AND DESIGN OF MIXES.

REFERENCE SPECIFICATION SECTION 04 2200- FOR PROPORTIONING AND DESIGN OF MIXES FOR CMU FILL ONLY.

REBAR LAP SPlice REQUIREMENTS (MIN.)

LOCATION	BEAMS AND FOUNDATIONS		WALLS AND SLABS	
	3000 PSI	4000 PSI	3000 PSI	4000 PSI
BAR #3	22"	19"	16"	16"
#4	29"	25"	17"	16"
#5	36"	31"	26"	22"
#6	36"	36"	36"	36"
#7	42"	42"	42"	42"
#8	42"	42"	42"	42"

GENERAL NOTES:

LAP SPlice LENGTHS ABOVE APPLY TO ALL REINFORCING BARS FOR THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE PLANS.

LAP SPlice LENGTHS IN TABLE ABOVE DO NOT PERTAIN TO REINFORCING IN MASONRY CONSTRUCTION. REFER TO GENERAL NOTES FOR SPlice REQUIREMENTS IN MASONRY CONSTRUCTION.

ALL LAP SPlices PROVIDED ABOVE ARE FOR NORMAL WEIGHT CONCRETE AND GRADE 60 REINFORCING BARS IN TENSION. SPlices FOR WALL AND SLAB BARS ARE BASED ON A MINIMUM OF 1" CLEAR COVER.

FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.

LAP SPlices FOR GRADE BEAM TOP BARS SHALL BE PLACED IN THE CENTER OF THE SPAN BETWEEN DRILLED SHAFTS (OR PILES). LAP SPlices FOR GRADE BEAM BOTTOM BARS SHALL BE PLACED DIRECTLY ABOVE A DRILLED SHAFT (OR PILE).

ANCHOR BASE WELDING

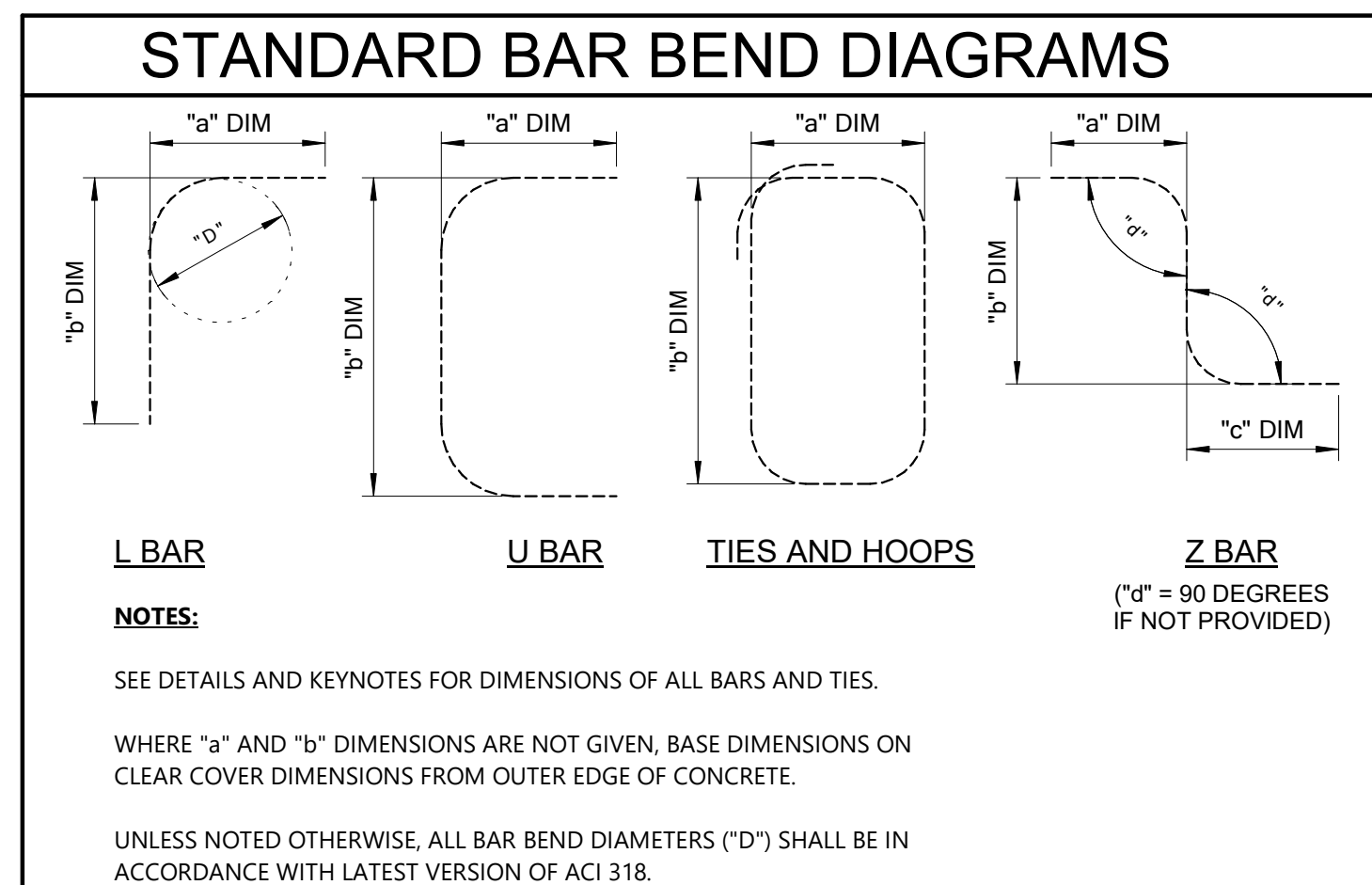
BAR SIZE	BAR DIAMETER	WELD SIZE	MIN. PLATE THICKNESS
#3	3/8"	1/4"	1/4"
#4	1/2"	5/16"	1/4"
#5	5/8"	3/8"	1/4"
#6	3/4"	7/16"	5/16"
#7	7/8"	1/2"	3/8"
#8	1"	9/16"	3/8"
#9	1 1/8"	5/8"	7/16"

NOTES:

THIS TABLE APPLIES TO ALL WELDABLE REBAR, DEFORMED BAR ANCHORS OR HEADED STUD ANCHORS.

HEADED STUD ANCHORS MAY ALTERNATIVELY BE ATTACHED TO DEVELOP FULL-STRENGTH USING AUTOMATIC END WELDING.

E70 ELECTRODES SHALL BE USED.



METAL DECKING REQUIREMENTS

TYPE	DECKING	FASTENER LAYOUT		FASTENER METHOD		REMARKS
		SUPPORT	SIDE LAPS	SUPPORT	SIDE LAPS	
FLOOR	2VLI 18 GA.	36/4	4	③	②	(A)
ROOF	1.5B 22 GA.	36/7	6	①	②	(A) (B)

① #12 TEK SCREWS (OR 5/8" PUDDLE WELDS OPTIONAL AT STEEL ELEMENTS THICKER THAN 3/16")

② #10 TEK SCREWS

③ 5/8" PUDDLE WELDS

(A) ATTACH DECK TO PERIMETER ANGLES/SUPPORTS AT 6" O.C. MAX.

(B) AT THE FOLLOWING ROOF REGIONS, INCREASE FASTENING TO DOUBLE SUPPORT FASTENERS (36/14) AND 12 SIDE LAPS PER SPAN:

- ROOF (EL. 31'-11") PLAN WEST OF GRIDLINE 5.
- ROOF (EL. 31'-11") BETWEEN GRIDLINES 6 AND 12.
- ROOF (EL. 31'-11") BETWEEN GRIDLINES 17 AND 24.
- ROOF (EL. 31'-11") BETWEEN GRIDLINES 27 AND 28.

NOTES:

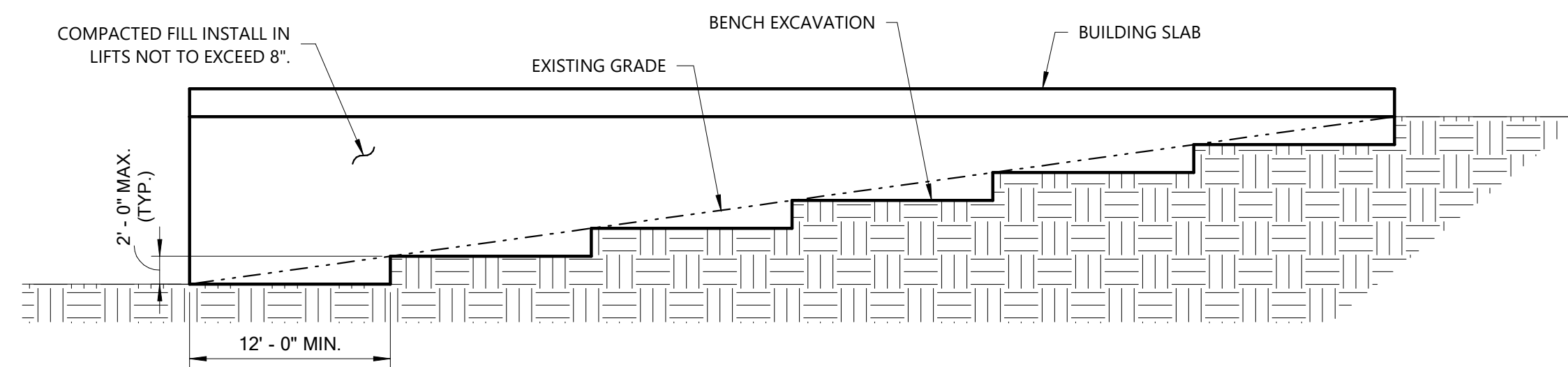
- INCREASE SIZE OF SCREWS IF REQUIRED FOR ATTACHMENT TO THICKER STEEL ELEMENTS.

COMPONENTS & CLADDING DESIGN WIND PRESSURES (PSF)

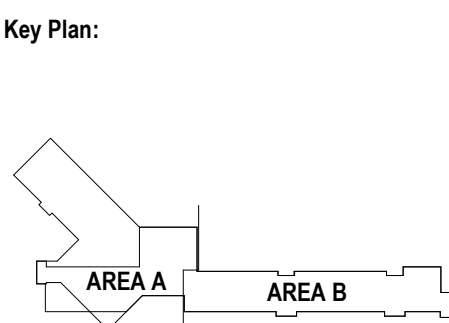
ZONE	ROOF												WALLS				PARAPET			OVERHANG	
	1		2		3		4		5		2		3		1&2	3					
≤10	17.6	-43.2	39.6	-72.5	39.6	-72.5	39.6	-42.9	39.6	-52.7	101.4	-71.0	101.4	-81.1	-62.3	-62.3					
20	16.5	-42.1	37.8	-64.8	37.8	-64.8	37.8	-41.1	37.8	-49.2	91.7	-67.4	91.7	-75.7	-61.2	-61.2					
50	16.0	-40.7	35.5	-54.6	35.5	-54.6	35.5	-38.8	35.5	-44.6	78.8	-62.6	78.8	-68.6	-59.7	-59.7					
100	16.0	-39.6	33.7	-46.9	33.7	-46.9	33.7	-37.0	33.7	-41.1	69.1	-59.0	69.1	-63.2	-58.6	-58.6					
200	16.0	-39.6	32.0	-46.9	32.0	-46.9	32.0	-35.3	32.0	-37.6	67.3	-55.4	67.3	-57.8	-50.7	-50.7					
≥500	16.0	-39.6	29.7	-46.9	29.7	-46.9	29.7	-33.0	29.7	-33.0	65.0	-50.7	65.0	-50.7	-40.3	-40.3					

NOTES:

- EWA IS EFFECTIVE WIND AREA OF A STRUCTURAL COMPONENT.
- FOR ZONE DEFINITIONS, SEE ASCE 7-10 FIGURES 30.4 - (AS APPLICABLE).
- PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACE RESPECTIVELY.
- EDGE WIDTH DIMENSION "a" = 12.0 FT.
- LINEAR INTERPOLATION MAY BE USED BETWEEN EWA VALUES PROVIDED IN THE ABOVE TABLE.
- PRESSURES IN THE ABOVE TABLE ARE ULTIMATE LEVEL PRESSURES BASED ON LATERAL DESIGN WIND PARAMETERS IN GENERAL NOTES.



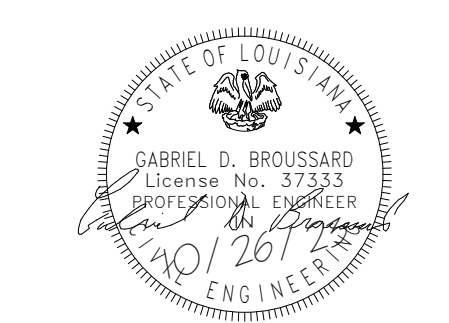
Variable Fill Placement
N.T.S.



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Phase: Bid Documents
Date: 10-26-2023
Revisions:



Professional Seal
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North **S7.11**

HVAC SCOPE OF WORK

SCOPE: THE SCOPE OF THE WORK IS GENERALLY INDICATED BY THE DRAWINGS AND SUMMARIZED BY THIS SCOPE OF WORK. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS OF THE INSTALLATION OF MECHANICAL WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL CONDITIONS AND REQUIREMENTS FOR THE INSTALLATION OF THE WORK WHERE INFORMATION REQUIRED TO PROVIDE A COMPLETE WORK IS OMITTED OR UNCLEAR. THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING A CLARIFICATION FROM THE ENGINEER PRIOR TO SUBMISSION OF BIDS. BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.

CODES & STANDARDS: BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.

MECHANICAL CODE COMPLIANCE: COMPLY WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL MECHANICAL CODE AND ALL LOCAL AMENDMENTS IN THE PERFORMANCE OF MECHANICAL WORK REQUIRED FOR THIS PROJECT. ENSURE THAT ALL OUTDOOR AIR INTAKES ARE 10'-0" OR MORE FROM EXHAUSTS, FLUES, PLUMBING VENTS AND OTHER SOURCES OF CONTAMINATION. ALL COMBUSTIBLE MATERIALS INCORPORATED INTO THE PROJECT SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD AND 50 SMOKE DEVELOPED.

COORDINATION: COORDINATE THE MECHANICAL WORK WITH THE WORK OF THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. OBTAIN INFORMATION REGARDING THE ROUGH-IN AND FINAL CONNECTION REQUIREMENTS FOR EQUIPMENT TO BE PROVIDED BY THE OWNER OR OTHER CONTRACTORS PRIOR TO COMMENCING WORK. OBTAIN FINAL LOCATIONS OF CEILING GRIDS, LIGHTING FIXTURES, SPRINKLERS, PIPING AND OTHER COMPONENTS THAT WILL AFFECT THE LAYOUT OF HVAC DUCTWORK AND TERMINAL DEVICES PRIOR TO COMMENCING INSTALLATION WORK.

CUTTING & PATCHING: CONTRACTOR SHALL PROVIDE SLEEVES, CURBS, AND PORTALS AS NECESSARY TO MINIMIZE THE NEED TO CUT STRUCTURAL COMPONENTS. PROVIDE LABOR, EQUIPMENT AND SPECIAL SERVICES NECESSARY TO CREATE OPENING NECESSARY FOR THE PASSAGE OF PIPING, DUCTWORK, AND OTHER MECHANICAL WORK. APPLY A ROUGH PATCH TO CLOSE OFF UNUSED PORTIONS OF OPENINGS USING MATERIALS THAT ARE SUBSTANTIALLY SIMILAR TO THAT OF THE ADJACENT STRUCTURE. NO STRUCTURAL COMPONENTS MAY BE CUT WITHOUT 24-HOUR PRIOR WRITTEN APPROVAL OF ARCHITECT/ENGINEER.

MATERIALS, EQUIPMENT, AND SUBMITTALS: PROVIDE MATERIALS AND EQUIPMENT OF THE TYPE SIZE, CAPACITY, AND QUANTITY INDICATED BY THESE DOCUMENTS. WHERE MATERIAL SPECIFICATIONS ARE NOT INDICATED, PROVIDE MATERIALS THAT COMPLY WITH THE HIGHEST QUALITY INDUSTRY STANDARD. IF NO SUCH STANDARD EXISTS, CONTACT THE ARCHITECT/ENGINEER TO ASCERTAIN THE APPROPRIATE SPECIFICATION. THE CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS FOR ALL SYSTEMS, INCLUDING ORTHOGRAPHIC PIPING DRAWINGS SHOWING LOCATIONS OF ALL INSTRUMENTS. IN THE EVENT OF A CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

SUBSTITUTIONS: THE OWNER WILL CONSIDER SUBSTITUTIONS OF THE "DESIGN BASIS" SPECIFICATION WHERE GREATER VALUE CAN BE ACHIEVED. OBTAIN THE WRITTEN PERMISSION OF THE ARCHITECT/ENGINEER PRIOR TO MAKING ANY SUBSTITUTIONS AND TAKE RESPONSIBILITY FOR THE DIMENSIONAL AND PERFORMANCE CONSTRAINTS IMPOSED BY THE SUBSTITUTED EQUIPMENT/MATERIAL.

H.V.A.C. EQUIPMENT: ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE AN EFFECTIVE MEANS OF ISOLATING VIBRATIONS GENERATED BY EQUIPMENT FROM DUCTWORK, PIPING, CONDUITS, AND THE BUILDING STRUCTURE.

HVAC ON ROOF: PROVIDE MANUFACTURED CURBS, EQUIPMENT, RAILS, PORTALS, PIPE SUPPORTS AND OTHER ROOF MOUNTING DEVICES AS NECESSARY. SECURE MOUNT THE EQUIPMENT WHILE PROTECTING THE ROOF FROM DAMAGE. FLASH, COUNTER-FLASH AND SEAL ALL OPENINGS TO ENSURE A WATERTIGHT ENVELOPE.

DUCTWORK: ALL DUCTWORK SHALL BE FABRICATED OF PRIME A-60 COATED GALVANIZED STEEL OF LOCK FORMING GRADE CONFORMING TO ASTM STANDARDS A-525 AND A-527, EXCEPT AS OTHERWISE INDICATED ON PROJECT CONTRACT DOCUMENTS. FABRICATE AND INSTALL DUCTWORK, FITTINGS, CONNECTORS, HANGERS, AND DUCTWORK ACCESSORIES IN ACCORDANCE WITH THE RECOMMENDATIONS OF S.M.A.C.N.A. "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE", LATEST EDITION, USING THE 2" W.C. POSITIVE PRESSURE CHART, EXCEPT NO DUCTWORK SHALL BE LIGHTER THAN 24 GAUGE. SEAL ALL DUCTWORK SUBSTANTIALLY AIRTIGHT TO COMPLY WITH S.M.A.C.N.A. SEAL CLASS "A". CLEAR AIRWAY DUCT DIMENSIONS ARE INDICATED ON THE DRAWINGS. ALL FLEXIBLE AIR CONNECTORS SHALL BE TESTED IN ACCORDANCE WITH UL 181. SUCH CONNECTORS SHALL BE LISTED AND LABELED AS CLASS 0 OR CLASS 1 FLEXIBLE AIR CONNECTORS AND SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 304.1 IN THE INTERNATIONAL MECHANICAL CODE. ALL FLEXIBLE AIR CONNECTORS SHALL BE LIMITED IN LENGTH TO 5 FEET AND SHALL NOT PASS THROUGH ANY WALL, FLOOR OR CEILING. ALL DUCTWORK EXPOSED TO THE EXTERIOR SHALL BE LINED WITH 1" THICK NOMACO "K-FLEX GRAY" (OR EQUAL) POLYMERIC FOAM INSULATION AND APPROVED UV-RESISTANT JACKETING. SEAL ALL JOINTS AND SEAMS TO FORM A CONTINUOUS VAPOR BARRIER.

DUCTWORK INSULATION: PROVIDE 2" THICK, MIN. R-6.0 FIBERGLASS BLANKET INSULATION WITH FSK VAPOR BARRIER ON ALL SUPPLY, RETURN, AND OUTDOOR AIR INTAKE DUCTWORK. PROVIDE PRESSURE SENSITIVE TAPE, MASTIC, OR OTHER MATERIALS AS MAY BE REQUIRED TO MAINTAIN A CONTINUOUS VAPOR BARRIER THROUGHOUT THE SYSTEM. JACKETS AND VAPOR BARRIER MATERIALS MUST MEET LOCAL ORDINANCE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED RATINGS.

REFRIGERANT PIPING: PROVIDE TYPE L-ACR HARD TEMPER COPPER TUBING AND WROUGHT COPPER REFRIGERATION TYPE FITTINGS FOR ALL REFRIGERANT PIPING. BRAZE ALL JOINTS TO WITHSTAND MINIMUM 500 PSIG PRESSURE. PURGE REFRIGERANT PIPES WITH DRY NITROGEN AFTER INSTALLATION AND EVACUATE SYSTEM TO 250 MICRONS FOR A PERIOD OF 24 HOURS PRIOR TO CHARGING SYSTEMS. CHARGE SYSTEMS WITH REFRIGERANT INDICATED IN EQUIPMENT SCHEDULES AS REQUIRED TO OBTAIN PROPER OPERATING PRESSURES DURING NORMAL OPERATION. PROVIDE ALL DX SYSTEM'S REFRIGERANT PIPING WITH PRESSURE GAUGES. PROVIDE A LIQUID LINE FILTER-DRIER AND MOISTURE INDICATING SIGHT GLASS FOR EACH SYSTEM, AS WELL AS OTHER REFRIGERATION SPECIALTIES INDICATED ON DRAWINGS. TEST SYSTEMS AFTER STARTUP FOR LEAKS, AND REPAIR ALL LEAKS FOUND AND CLEAN & RECHARGE SYSTEMS ANEW. PROVIDE UNICELLULAR RUBBER INSULATION ON SUCTION PIPING AND COLD REFRIGERATION EQUIPMENT, WITH A MINIMUM THICKNESS OF 3/8" INDOORS AND 3/4" OUTDOORS. PROVIDE A TRAPPED CONDENSATE DRAIN FOR EACH EVAPORATOR COIL. SIZE TO THE CONNECTION PROVIDED AND RUN OUT TO AN APPROPRIATE SANITARY DRAIN CONNECTION, OR SUITABLE FRENCH DRAIN, WITH A MINIMUM 2" AIR GAP.

PIPING INSULATION: PROVIDE 1 1/2" THICK FIBERGLASS PIPE INSULATION WITH ALL-SERVICE JACKET (ASTM C-547, C-921, TYPE I or II AS APPROPRIATE FOR TEMPERATURE) ON ALL PIPING WHERE FLUIDS TEMPERATURE ARE MORE THAN 10F BELOW AMBIENT OR MORE THAN 25' ABOVE AMBIENT TEMPERATURE. PROVIDE PRESSURE SENSITIVE TAPE, MASTIC, OR OTHER MATERIALS AS MAY BE REQUIRED TO MAINTAIN A CONTINUOUS VAPOR BARRIER THROUGHOUT THE SYSTEM. PROVIDE PRE-MOLDED PVC COVERS AT ALL FITTINGS. JACKETS AND VAPOR BARRIER MATERIALS MUST MEET LOCAL ORDINANCE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED RATINGS. (SEE FLOOR PLANS FOR INSULATION REQUIREMENTS AT SPECIAL SYSTEMS.)

INSTRUMENTATION: PROVIDE THERMOMETERS, THERMOWELLS, PRESSURE GAUGES, FLOW INDICATORS, CALIBRATED BALANCING VALVES, P&T PLUGS, AND OTHER INSTRUMENTATION INDICATED ON THE DRAWINGS. IN THE ABSENCE OF SUCH INDICATION, PROVIDE, AT MINIMUM, THERMOWELLS AND THERMOMETERS AT EACH ITEM OF HEAT TRANSFER EQUIPMENT (BOILER, CHILLER, COOLING TOWER, COIL, HEAT EXCHANGER, ETC.) AND PRESSURE GAUGES WITH GAUGE COCKS AND SNUBBERS, AT ITEM OF HEAT TRANSFER EQUIPMENT AND EACH PRIME MOVER (PUMP, FAN, ETC.).

IDENTIFICATION: PROVIDE MECHANICAL SYSTEMS IDENTIFICATION TO INDICATE THE TAG, TYPE, FLOW, TEMPERATURE RANGE, CAPACITY, ETC. OF EACH ITEM OF EQUIPMENT AND ALL CONVEYANCES (DUCTWORK AND PIPING SYSTEMS). PROVIDE ENGRAVED PLASTIC LAMINATE PLATES FOR EQUIPMENT. "SNAP-ON" PIPE MARKERS FOR PIPING, AND ADHESIVE BACKED PLASTICIZED MARKERS FOR DUCTWORK. PROVIDE ENGRAVED PLASTIC LAMINATE VALVE TAGS AT EACH VALVE AND A VALVE TAG SCHEDULE FRAMED UNDER GLASS.

CONTROLS: PROVIDE ALL CONTROL DEVICES, CONDUIT, CONDUCTORS, AND ACCESSORIES REQUIRED TO FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM OF TEMPERATURE CONTROLS TO ACCOMPLISH THE INDICATED SEQUENCE OF OPERATION.

SAFETY DEVICES: ALL AIR MOVING EQUIPMENT WITH RATED AIRFLOW CAPACITY OF 2000 CFM OR GREATER SHALL BE EQUIPPED WITH A RETURN-AIR DUCT-MOUNTED SMOKE DETECTOR. WHERE THE AIRFLOW CAPACITY EXCEEDS 15,000 CFM, PROVIDE SMOKE DETECTORS AT THE SUPPLY AND RETURN DUCTS. WHEN THE DETECTOR SENSES AIRBORNE SMOKE IN THE DUCTS, THE DEVICE SHALL SHUT DOWN THE ASSOCIATED FAN. THE DEVICE SHALL INCLUDE AN AUXILIARY DRY CONTACT FOR FIRE ALARM SYSTEM INTERLOCK, WHERE PROVIDED. PROVIDE A MAGNETICALLY ACTUATED SMOKE DETECTOR TEST STATION FOR EACH SMOKE DETECTOR, LOCATED ON A WALL, 54" A.F.F., AS DIRECTED BY THE FIRE AUTHORITY HAVING JURISDICTION.

SYSTEMS COMMISSIONING: AIR SYSTEMS TESTING, ADJUSTING AND BALANCING WORK SHALL BE PERFORMED BY A FIRM THAT IS CERTIFIED BY NEBB OR AABC, EMPLOYING CERTIFIED TECHNICIANS. TEST, BALANCE, AND ADJUST ALL AIR QUANTITIES TO WITHIN 10% OF THOSE INDICATED ON DRAWINGS. PROVIDE ADDITIONAL DAMPERS, DRIVES, MOTORS OR OTHER DEVICES AND ACCESSORIES AS MAY BE REQUIRED TO ADJUST AIR QUANTITIES AS REQUIRED. SUBMIT THREE COPIES OF THE FINAL REPORT TO THE ARCHITECT WITHIN 15 DAYS OF THE SUBSTANTIAL COMPLETION OF THE WORK.

AIR TEST & BALANCE: PROVIDE THE SERVICES OF A TECHNICIAN, QUALIFIED AND EXPERIENCED IN THE FIELD OF H.V.A.C. SYSTEMS COMMISSIONING TO INITIATE, QUANTIFY, ADJUST AND CALIBRATE THE OPERATION OF THE INSTALLED SYSTEMS. PERFORM COMMISSIONING WORK IN ACCORDANCE WITH THE STANDARDIZED METHODOLOGY SET FORTH IN ASHRAE GUIDELINE 1-1996 "THE HVAC COMMISSIONING PROCESS". PRIOR TO COMMISSIONING, REPLACE ALL AIR FILTER MEDIA. USE MINIMUM MERV-13 FILTERS FOR LEAD-CERTIFIABLE PROJECTS, AND MINIMUM MERV-8 FOR OTHER PROJECTS. SUBMIT COMMISSIONING REPORTS WITHIN 3 DAYS OF SUBSTANTIAL COMPLETION. THE PROJECT SHALL BE DEEMED SUBSTANTIALLY COMPLETE WHEN THE WORK OR A DESIGNATED PORTION THEREOF IS SUFFICIENTLY COMPLETE, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SO THAT THE OWNER MAY OCCUPY THE WORK OR DESIGNATED PORTION THEREOF FOR THE USE FOR WHICH IT IS INTENDED.

FIRE RATED SMOKE DAMPERS: PROVIDE 120V DYNAMIC DAMPERS IN LOCATIONS AS INDICATED ON THE PLANS. PROVIDE 90 MINUTE FIRE RATING, WITH CLASS I OR II LEAKAGE RATING 250 DEG. F MINIMUM. PROVIDE ACTUATORS AND COORDINATE INSTALLATION AND CONTROL WITH FIRE ALARM CONTRACTOR. PROVIDE ACCESS AS REQUIRED BY THE INTERNATIONAL MECHANICAL CODE.

CONTRACT CLOSEOUT: PROVIDE EVIDENCE THAT ALL CONTRACTUAL OBLIGATIONS HAVE BEEN MET, INCLUDING, BUT NOT NECESSARILY LIMITED TO, PROVIDING "AS-BUILT" DRAWINGS, SYSTEM COMMISSIONING REPORTS, OPERATING AND MAINTENANCE MANUALS, TRAINING OF PERSONNEL, FULLY EXECUTED PUNCHLIST, WARRANTIES, EXTENDED WARRANTIES, AND OTHER DOCUMENTS THAT MAY BE PERTINENT TO THE MECHANICAL PORTION OF THE PROJECT.

WARRANTY: THE CONTRACTOR SHALL WARRANT THE WORK PROVIDED AS PART OF THIS PROJECT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE COMMISSIONING ACCEPTANCE DATE. PROVIDE EVIDENCE OF ALL EXTENDED WARRANTIES AVAILABLE FROM EQUIPMENT MANUFACTURERS.

TEMPERATURE CONTROL SEQUENCE OF OPERATION:

PACKAGED ROOFTOP AIR CONDITIONING SYSTEMS:

1. THE TEMPERATURE CONTROL SYSTEM FOR PACKAGED SYSTEMS SHALL BE MICROPROCESSOR-BASED WITH REMOTELY MOUNTED ZONE TEMPERATURE SENSING DEVICES. EACH H.V.A.C. SYSTEM SHALL BE CONTROLLED INDEPENDENTLY OF THE OTHERS. IF THE CONTROL SYSTEM DOES NOT HAVE TIME CLOCK CAPABILITY, PROVIDE A PROGRAMMABLE SEVEN-DAY TIME CLOCK TO PROVIDE "OCCUPIED" AND "UNOCCUPIED" STATUS TO THE CONTROL SYSTEM.

2. ALL DEVICES SHALL BE MOUNTED ON NEMA RATED ELECTRICAL BOXES AND ALL CONDUCTORS SHALL BE CONTAINED WITHIN E.M.T. CONDUIT. DO NOT RUN LOW VOLTAGE CONTROL WIRING IN CONDUITS WITH LINE VOLTAGE POWER WIRING.

3. THE ZONE TEMPERATURE SENSING DEVICES SHALL BE MOUNTED WITHIN THE ASSOCIATED CONDITIONED SPACE, AT 54" ABOVE THE FINISHED FLOOR UNLESS NOTED, AND SHALL INCLUDE AN INTEGRAL TEMPERATURE SENSOR AND MANUALLY OR AUTOMATICALLY OPERATED "FAN" AND "SYSTEM" SWITCHES. WHERE INDICATED ON PLANS, PROVIDE MULTIPLE REMOTE TEMPERATURE SENSORS IN AN ARRAY WIRED TO THE CENTRAL THERMOSTAT.

4. THE UNIT SUPPLY FAN SHALL OPERATE CONTINUOUSLY. OUTDOOR AIR INTAKE DAMPERS SHALL OPEN TO MINIMUM POSITION WHENEVER THE SUPPLY FAN OPERATES.

5. WHEN THE SYSTEM SWITCH IS SET TO "COOL" AND THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT, THE REFRIGERATION COMPRESSOR(S) SHALL START IN A STAGED SEQUENCE TO PROVIDE COOLED AIR TO THE SPACE UNTIL THE SETPOINT TEMPERATURE IS SATISFIED, AT WHICH TIME THE COMPRESSOR(S) SHALL STOP IN A STAGED SEQUENCE.

6. IN OCCUPIED SPACES, WHEN THE SYSTEM SWITCH IS SET TO "HEAT" AND THE SPACE TEMPERATURE DROPS BELOW THE SETPOINT, THE AUXILIARY ELECTRIC DUCT HEATER SHALL OPERATE IN A STAGED SEQUENCE TO PROVIDE HEATED AIR TO THE SPACE UNTIL THE SETPOINT TEMPERATURE IS SATISFIED, AT WHICH TIME THE HEATER SHALL TURN OFF IN A STAGED SEQUENCE.

7. PROVIDE A REVERSE-ACTING HUMIDISTAT IN OCCUPIED SPACES. WHENEVER THE HUMIDITY RISES ABOVE THE HIGH LIMIT SETPOINT, OPERATE ALL STAGES OF MECHANICAL COOLING. SEQUENCE THE ELECTRIC DUCT HEATER ON AS NECESSARY TO PREVENT SUB-COOLING OF THE SPACE TEMPERATURE.

8. IN ADDITION TO STANDARD SAFETY DEVICES PROVIDED BY THE EQUIPMENT MANUFACTURERS, PROVIDE A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN AIR DUCT OF EACH UNIT WITH A SUPPLY AIR FLOW OF 2000 CFM OR GREATER. PROVIDE A SECOND DUCT-MOUNTED SMOKE DETECTOR IN THE SUPPLY AIR DUCT OF EACH UNIT WITH A SUPPLY AIR FLOW OF 15000 CFM OR GREATER. PROVIDE AUXILIARY N.C. CONTACTS FOR CONNECTION TO A FIRE ALARM SYSTEM. PROVIDE AND AUXILIARY INTERLOCK FROM THE FIRE ALARM SYSTEM TO SHUT DOWN THE UNIT SUPPLY FAN(S) AND CLOSE ALL DAMPER(S) ON A 'FIRE CONDITION' SIGNAL.

NEW WORK	
	SQUARE TO ROUND SIDE TAKEOFF WITH MANUAL VOLUME DAMPER
	LAY-IN DIFFUSER WITH FLEX. DUCT CONN. (5'-0" MAX. LENGTH)
	RADIUS ELBOW R=1/2 DUCT WIDTH MINIMUM
	SQUARE ELBOW WITH ACOUSTIC TURNING VANES
	ECCENTRIC TRANSITION X=30" MAXIMUM
	CONCENTRIC TRANSITION X=30" MAXIMUM
	TRANSITION FLAT ON TOP
	TRANSITION FLAT ON BOTTOM
	OFFSET UP OR DOWN AS INDICATED
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
	MOTOR OPERATED OPPOSED BLADE CONTROL DAMPER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN/EXHAUST DUCT UP
	RETURN/EXHAUST DUCT DOWN
	U/L 555 DYNAMIC 1 1/2 HR. FIRE DAMPER (PROVIDE ACCESS DOOR)
	FLEXIBLE DUCT CONNECTION
	THERMOSTAT OR TEMPERATURE SENSOR
	SUPPLY AIRFLOW (CUBIC FEET PER MINUTE)
	EXHAUST AIR DAMPER
	FIRE SMOKE DAMPER, W/120V ACTUATOR

TAG	MFR MODEL No.	FAN TYPE	SERVICE	AIRFLOW CFM	E.S.P. in. W.C.	RPM	MOTOR HP	ELECTRICAL	ACCESSORIES/REMARKS
EF-1 THRU EF-35	GREENHECK CSP-A290	CEILING	RESTROOM	74	0.87	1050	30W	115/60/1	WC,DS,BDD,LSW,MS

FAN ACCESSORIES LEGEND:
 WC - WALL CAP W/ BIRD SCREEN
 DS - DISCONNECT SWITCH
 BDD - BACK DRAFT DAMPER
 LSW - INTERLOCKED W/ LIGHT SWITCH
 MS - MOTOR STARTER

TAG	MFR MODEL	MOUNTING & TYPE	BORDER	FACE	MATERIAL	FINISH	OBD	ACCESSORIES / REMARKS
D1	TITUS TMS-AA	LAY-IN, ROUND NECK SUPPLY DIFFUSER	TYPE 3	LOUVERED	ALUMINUM	#26 WHITE	YES	2x2 MODULE
R1	TITUS 3000'S	SURFACE MTD. SUPPLY REGISTER	-	ADJ. BLADE	ALUMINUM	#26 WHITE	YES	DOUBLE DEFLECTION
G1	TITUS 50F-NT	LAY-IN RETURN/EXHAUST GRILLE	TYPE 3	EGGCRATE	ALUMINUM	#26 WHITE	NO	1/2" x 1/2" ALUM. GRID
G2	TITUS 8F	TRANSFER GRILLE	TYPE 1	PERFORATED	ALUMINUM	#26 WHITE	NO	-
LSD1	-	LINIER SLOT DIFFUSER	-	-	ALUMINUM	#26 WHITE	-	-
DL1	PRICE HCD	HIGH CAPACITY DRUM LOUVER	-	-	ALUMINUM	#26 WHITE	-	6"/12"

TAG	MANUFACTURER MODEL	FAN DATA				COMPRESSOR DATA			COOLING PERFORMANCE				HEATER DATA		ELECTRICAL DATA		MISC. DATA		ACCESSORIES					
		SUPPLY CFM	VENT CFM	E.S.P.	HP	RPM	COMPR TYPE	QTY	REFRIG	CHARGE LBS.	THC	SHC	EDB	LDB	MIN. E.E.R.	MBH INPUT	CTL. STAGES	EDB		LDB	V/Ph/Hz	MCA	MAX C/B	OPER WT LBS
RTU-01	GREENHECK RV-75-30I-O-G1	12500	841	1.5	(2) 5 ea.	1750	SCROLL	2	R410A	-	379	308	76	53.6	9.8	600	2	68	104	408/3/60	85.9	110	5300	LLE, SASD, HGB, EFD, PHAS, MOAD, CO2, DNF
RTU-02	LENNOX LGH242H4V-G 20T	6500	1825	1	5	810	SCROLL	4	R410A	33	234.8	162.9	80	56.7	12.3	260	2	65	95	408/3/60	54	60	2575	LLE, SASD, HGB, EFD, PHAS, MOAD, CO2, DNF
RTU-03	LENNOX LGH242H4V-G 20T	8000	740	1	5	810	SCROLL	4	R410A	33	234.8	162.9	80	56.7	12.3	260	2	65	95	408/3/60	54	60	2575	LLE, SASD, HGB, EFD, PHAS, MOAD, CO2, HZF
RTU-04	LENNOX LGH300H4M-G 25T	10000	934	1.5	7.5	959	SCROLL	4	R410A	32	299.0	229.3	80	58.6	11.6	360	2	65	92	408/3/60	68	70	3378	LLE, SASD, HGB, EFD, PHAS, MOAD, CO2, HZF
RTU-05	GREENHECK RV-75-30I-O-G1	13750	719	1.5	(2) 7.5 ea.	1770	SCROLL	2	R410A	-	389.4	327.1	77	54.9	9.8	600	2	67	99	408/3/60	92	110	2665	LLE, SASD, HGB, EFD, PHAS, MOAD, CO2, DNF
RTU-06	LENNOX LG1180H4M-G 15T	6000	362	1	5	883	SCROLL	3	R410A	20	174.2	130.7	80	57.8	12	260	2	65	97	408/3/60	38	45	2567	LLE, SASD, HGB, EFD, PHAS, MOAD, CO2, DNF
RTU-07	LENNOX LGH300H4M-G 25T	10000	643	1.5	7.5	959	SCROLL	4	R410A	32	299.0	229.3	80	58.6	11.6	360	2	65	92	408/3/60	68	70	3378	LLE, SASD, HGB, EFD, PHAS, MOAD, CO2, DNF

ACCESSORIES:
 LLE - LOW LEAK ECONOMIZER
 SASD - SUPPLY AIR SMOKE DETECTOR
 HGB - HOT GAS BYPASS
 EFD - ECONOMIZER FAULT DETECTION
 PHAS - PHASE PROTECTION
 MOAD - MOTORIZED OUTDOOR AIR DAMPER
 CO2 - CO2 SENSOR
 DNF - DOWN FLOW CONFIGURATION
 HZF - HORIZONTAL FLOW CONFIGURATION (30" PLENUM CURB / FIELD TAPPED DUCT CONNECTIONS)

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Phase: Bid Documents
 Date: 10-26-23
 Revisions:
 1 PERMIT REVISIONS 4.1.24

STATE OF LOUISIANA

 JOHN T. WADE
 REG. NO. 2689
 PROFESSIONAL ENGINEER
 MECHANICAL ENGINEER
 10/20/2023

Professional Seal
 Scale: (not to scale)
 Sht Description:
 Mechanical Notes Sheet 1 of 3

North

 MO.01

2021 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE (AREA ONE)

SPACE NAME	USE OF SPACE	FLOOR AREA SQ. FT.	OCCUPANT DENSITY (PEOPLE/1000 SQ. FT.)	TOTAL PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	PEOPLE OUTSIDE AIR CFM	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	AREA OUTSIDE AIR CFM	TOTAL OUTSIDE AIR CFM	EXHAUST RATE (CFM/SQ. FT.)	EXHAUST AIR CFM
MIXED OFFICE SPACE	OFFICE	5731	5	29	5	143	0.06	344	487	-	-
RESTROOMS	RESTROOM	1127	-	-	-	-	-	-	-	75 CFM PER FIXTURE	1050
CONFERENCE	CONFERENCE	1463	50	73	5	366	0.06	88	454	-	-
CORRIDOR	CORRIDOR	3242	-	-	-	-	-	-	-	-	-
BUILDING TOTALS		11563				509		432	941		450

2021 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE (AREA TWO)

SPACE NAME	USE OF SPACE	FLOOR AREA SQ. FT.	OCCUPANT DENSITY (PEOPLE/1000 SQ. FT.)	TOTAL PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	PEOPLE OUTSIDE AIR CFM	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	AREA OUTSIDE AIR CFM	TOTAL OUTSIDE AIR CFM	EXHAUST RATE (CFM/SQ. FT.)	EXHAUST AIR CFM
LOBBY	LOBBY	3147	50	157	5	787	0.06	189	976	-	-
TRAINING ROOM	MULTI-PURPOSE ASSEMBLY	1127	120	135	5	676	0.06	88	744	-	-
BREAK ROOM	CONFERENCE/MEETING	1463	50	30	5	150	0.06	88	238	-	-
GYM/HEALTH CLUB	HEALTH CLUB	3242	10	32	20	648	0.06	195	843	-	-
BUILDING TOTALS		8979				2261		539	2800		-

NOTE: BREAK ROOM OCCUPANCY IS BASED ON NUMBER OF SEATS AVAILABLE

2021 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE (AREA THREE)

SPACE NAME	USE OF SPACE	FLOOR AREA SQ. FT.	OCCUPANT DENSITY (PEOPLE/1000 SQ. FT.)	TOTAL PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	PEOPLE OUTSIDE AIR CFM	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	AREA OUTSIDE AIR CFM	TOTAL OUTSIDE AIR CFM	EXHAUST RATE (CFM/SQ. FT.)	EXHAUST AIR CFM
MIXED OFFICE SPACE	OFFICE	2419	5	12	5	60	0.06	145	206	-	-
RESTROOMS	RESTROOM	104	-	-	-	-	-	-	-	75 CFM PER FIXTURE	150
CONFERENCE	CONFERENCE	1186	50	59	5	297	0.06	71	368	-	-
CORRIDOR	CORRIDOR	1157	-	-	-	-	-	-	-	-	-
LOBBY	LOBBY	556	50	28	5	139	0.06	33	172	-	-
ELECTRICAL/MECHANICAL	ELECTRICAL/MECHANICAL	158	-	-	-	-	-	-	-	-	-
BUILDING TOTALS		5580				496		250	746		150

2021 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE (AREA FOUR)

SPACE NAME	USE OF SPACE	FLOOR AREA SQ. FT.	OCCUPANT DENSITY (PEOPLE/1000 SQ. FT.)	TOTAL PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	PEOPLE OUTSIDE AIR CFM	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	AREA OUTSIDE AIR CFM	TOTAL OUTSIDE AIR CFM	EXHAUST RATE (CFM/SQ. FT.)	EXHAUST AIR CFM
MIXED OFFICE SPACE	OFFICE	4457	5	22	5	111	0.06	267	379	-	-
RESTROOMS	RESTROOM	345	-	-	-	-	-	-	-	75 CFM PER FIXTURE	450
CONFERENCE	CONFERENCE	711	50	36	5	178	0.06	43	220	-	-
LOBBY	LOBBY	1080	50	54	5	270	0.06	65	335	-	-
CORRIDOR	CORRIDOR	1660	-	-	-	-	-	-	-	-	-
BUILDING TOTALS		8253				559		375	934		450

2021 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE (AREA FIVE)

SPACE NAME	USE OF SPACE	FLOOR AREA SQ. FT.	OCCUPANT DENSITY (PEOPLE/1000 SQ. FT.)	TOTAL PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	PEOPLE OUTSIDE AIR CFM	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	AREA OUTSIDE AIR CFM	TOTAL OUTSIDE AIR CFM	EXHAUST RATE (CFM/SQ. FT.)	EXHAUST AIR CFM
MIXED OFFICE SPACE	OFFICE	4799	5	24	5	120	0.06	288	408	-	-
RESTROOMS	RESTROOM	106	-	-	-	-	-	-	-	75 CFM PER FIXTURE	150
CONFERENCE	CONFERENCE	402	50	20	5	101	0.06	24	125	-	-
CORRIDOR	CORRIDOR	1562	-	-	-	-	-	-	-	-	-
LOBBY	LOBBY	603	50	30	5	151	0.06	36	187	-	-
ELECTRICAL/MECHANICAL	ELECTRICAL/MECHANICAL	139	-	-	-	-	-	-	-	-	-
BUILDING TOTALS		7611				371		348	719		150

2021 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE (AREA SIX)

SPACE NAME	USE OF SPACE	FLOOR AREA SQ. FT.	OCCUPANT DENSITY (PEOPLE/1000 SQ. FT.)	TOTAL PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	PEOPLE OUTSIDE AIR CFM	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	AREA OUTSIDE AIR CFM	TOTAL OUTSIDE AIR CFM	EXHAUST RATE (CFM/SQ. FT.)	EXHAUST AIR CFM
MIXED OFFICE SPACE	OFFICE	1742	5	9	5	44	0.06	105	148	-	-
RESTROOMS	RESTROOM	730	-	-	-	-	-	-	-	75 CFM PER FIXTURE	600
CONFERENCE	CONFERENCE	594	50	30	5	149	0.06	36	184	-	-
CORRIDOR	CORRIDOR	1691	-	-	-	-	-	-	-	-	-
LOBBY	LOBBY	96	50	5	5	24	0.06	6	30	-	-
BREAK ROOM	BREAK	385	-	-	-	-	-	-	-	-	-
SERVER	SERVER	119	-	-	-	-	-	-	-	-	-
BUILDING TOTALS		5357				216		146	362		600

2021 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE (AREA SEVEN)

SPACE NAME	USE OF SPACE	FLOOR AREA SQ. FT.	OCCUPANT DENSITY (PEOPLE/1000 SQ. FT.)	TOTAL PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	PEOPLE OUTSIDE AIR CFM	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	AREA OUTSIDE AIR CFM	TOTAL OUTSIDE AIR CFM	EXHAUST RATE (CFM/SQ. FT.)	EXHAUST AIR CFM
MIXED OFFICE SPACE	OFFICE	5009	5	25	5	125	0.06	301	426	-	-
RESTROOMS	RESTROOM	172	-	-	-	-	-	-	-	75 CFM PER FIXTURE	300
CONFERENCE	CONFERENCE	702	50	35	5	176	0.06	42	218	-	-
MECHANICAL/ELECTRICAL	MECHANICAL/ELECTRICAL	108	-	-	-	-	-	-	-	-	-
CORRIDOR	CORRIDOR	2515	-	-	-	-	-	-	-	-	-
BUILDING TOTALS		8506				301		343	643		300

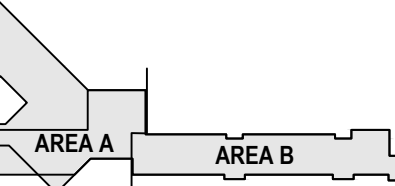


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Key Plan:

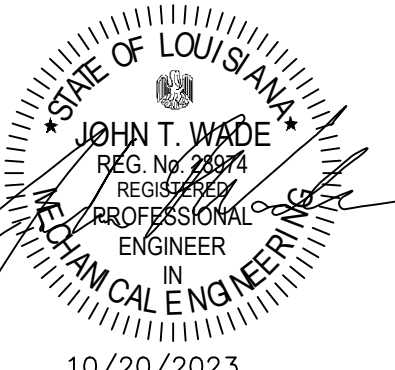


Consultants:



The Newtron Group
New Campus Corporate Headquarters
13820 Airline Highway
Baton Rouge, LA 70817

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Scale: (not to scale)
Sheet Description:
Mechanical Notes Sheet 2 of 3

VAV SCHEDULE							
TAG	MFR --- MODEL No.	INLET SIZE	MIN AIRFLOW CFM	DESIGN AIRFLOW CFM	SP. (W.G.)	N.C. RATING	ELECTRICAL HEATING COIL SCR MIN KW VOLTAGE
VAV-1	SDV FG50	10"	320	800			4.6 480/3
VAV-2	SDV FG50	12"	460	1150			6.6 480/3
VAV-3	SDV FG50	14"	666	1665			9.5 480/3
VAV-4	SDV FG50	10"	400	1000			5.7 480/3
VAV-5	SDV FG50	12"	580	1450			8.3 480/3
VAV-6	SDV FG50	10"	400	1000			5.7 480/3
VAV-7	SDV FG50	12"	520	1300			7.4 480/3
VAV-8	SDV FG50	12"	520	1300			7.4 480/3
VAV-9	SDV FG50	12"	500	1250			7.1 480/3
VAV-10	SDV FG50	10"	400	1000			5.7 480/3
VAV-11	SDV FG50	14"	600	1500			8.6 480/3
VAV-12	SDV FG50	16"	1600	4000			22.8 480/3
VAV-13	SDV FG50	10"	400	1000			5.7 480/3
VAV-14	SDV FG50	16"	1600	4000			22.8 480/3
VAV-15	SDV FG50	10"	360	900			5.1 480/3
VAV-16	SDV FG50	8"	240	600			3.4 480/3
VAV-17	SDV FG50	12"	500	1250			7.1 480/3
VAV-18	SDV FG50	14"	660	1650			9.4 480/3
VAV-19	SDV FG50	14"	660	1650			9.4 480/3
VAV-20	SDV FG50	14"	740	1850			10.5 480/3
VAV-21	SDV FG50	12"	500	1250			7.2 480/3
VAV-22	SDV FG50	12"	540	1350			7.7 480/3
VAV-23	SDV FG50	10"	440	1100			6.3 480/3
VAV-24	SDV FG50	8"	300	750			7.1 480/3
VAV-25	SDV FG50	12"	500	1250			7.1 480/3
VAV-26	SDV FG50	12"	500	1250			4.8 480/3
VAV-27	SDV FG50	10"	340	850			14.2 480/3
VAV-28	SDV FG50	14"	1000	2500			7.8 480/3
VAV-29	SDV FG50	12"	550	1375			9.4 480/3
VAV-30	SDV FG50	14"	660	1650			12.0 480/3
VAV-31	SDV FG50	14"	840	2100			8.0 480/3
VAV-32	SDV FG50	12"	560	1400			8.0 480/3
VAV-33	SDV FG50	12"	560	1400			4.8 480/3
VAV-34	SDV FG50	10"	340	850			6.4 480/3
VAV-35	SDV FG50	10"	450	1125			14.2 480/3
VAV-36	SDV FG50	14"	1000	2500			10.8 480/3
VAV-37	SDV FG50	14"	760	1900			3.7 480/3
VAV-38	SDV FG50	8"	260	650			5.4 480/3
VAV-39	SDV FG50	10"	380	950			6.7 480/3
VAV-40	SDV FG50	12"	470	1175			5.7 480/3
VAV-42	SDV FG50	10"	570	1425			8.1 480/3
VAV-43	SDV FG50	12"	570	1425			8.1 480/3
VAV-44	SDV FG50	12"	570	1425			8.1 480/3
VAV-45	SDV FG50	12"	570	1425			8.1 480/3
VAV-46	SDV FG50	10"	350	875			5.0 480/3
VAV-47	SDV FG50	10"	330	825			4.7 480/3
VAV-48	SDV FG50	6"	171	427			2.7 480/3

DUCTLESS SPLIT SYSTEM SCHEDULES			
SYSTEM TYPE	SPLIT SYSTEM MULTI-ZONE HEAT PUMPS	SPLIT SYSTEM SINGLE ZONE COOLING ONLY	
DESIGN BASIS MANUFACTURER	MITSUBISHI	MITSUBISHI	
INDOOR EVAP. UNIT	MARK	DFC-1 & DFC-2	DFC-3 & 4
	DESIGN BASIS MODEL	SLZ-KF09NA	MSY-GL09NA
	SENS. HEAT FACTOR	-	-
	ENT. DB/WB °F	75/63	75/63
	VOLTAGE	208/1	208/1
OUTDOOR AIR COOLED CONDENS. UNIT	MCA/MOCP	1.0/*	1.0/*
	MARK	DCU-1 & 2	DCU-3 & 4
	BASIS MODEL	MXZ-4C36NA2	MUY-GL09NA
	REFRIGERANT	R-410a	R-410a
	AMBIENT TEMP °F	95	95
	VOLTS/PHASE	208/1ø	208/1ø
	MCA/MOCP	22/25	7/10
MIN. SEER	17.0	17.0	

THE UNIT MANUFACTURER SHALL PROVIDE A REFRIGERANT PIPING DIAGRAM INDICATING PIPE SIZES AND ALL REQUIRED VALVES AND SPECIALTIES. * THE INDOOR UNIT POWER IS NORMALLY SUB-FED FROM THE OUTDOOR UNIT, BUT MAY BE FIELD CONVERTED. ACCESSORIES: CONDENSING UNIT HAIL GUARDS, ALL UNITS.

VAV NOTES:
 PROVIDE SCR CONTROL ELECTRIC HEAT.
 PROVIDE UNIT WITH INTEGRAL SAFETY SWITCH FOR AIRFLOW VERIFICATION.
 PROVIDE AND INSTALL THERMOSTAT
 VAV UNITS SHALL BE NAILOR INDUSTRIES, PRICE, TITUS, ENVIRO-TEC OR PRIOR APPROVED EQUIVALENT.
 VAV TERMINAL UNIT DDC CONTROLLER SHALL BE PROVIDED AND INSTALLED
 VAV TERMINAL UNITS SHALL INCLUDE AN IDENTIFICATION TAG PROVIDED BY THE MANUFACTURER.
 MAX. AIR PRESSURE DROP SHALL BE 0.4" W.G. BASED ON THE MAXIMUM COOLING AIRFLOW.
 TERMINALS SHALL MEET REQUIREMENTS OF UL 181 AND NFPA 90A.
 TERMINALS SHALL BE SINGLE DUCT, DDC WITH STANDARD MULTIPPOINT CENTER AVERAGING VELOCITY SENSOR.
 UPSIZE BRANCH DUCT RUNOUT TO VAV TERMINAL UNIT INLET BY 2 INCHES IN DIAMETER.
 CONTROL CONTRACTOR SHALL PROVIDE 120V TRANSFORMER AT EACH VAV TERMINAL UNIT FOR CONTROLS.

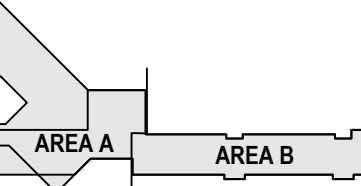


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Key Plan:

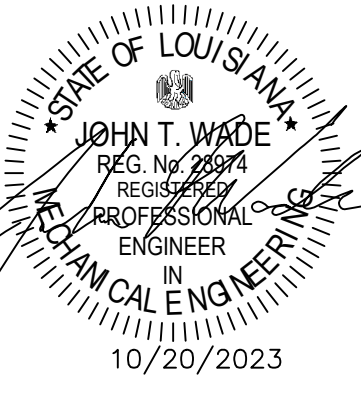


Consultants:



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 SH Description:
 Mechanical Notes Sheet 3 of 3



PENETRATION NOTES

RTU-1

RTU-1 WILL BE HOUSED ON THE ROOF OF THE SINGLE STORY PORTION. BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF TO SERVE THE SINGLE STORY LOCATION. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 24"Ø (24"x22"). THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 24"Ø (24"x22).

RTU-2

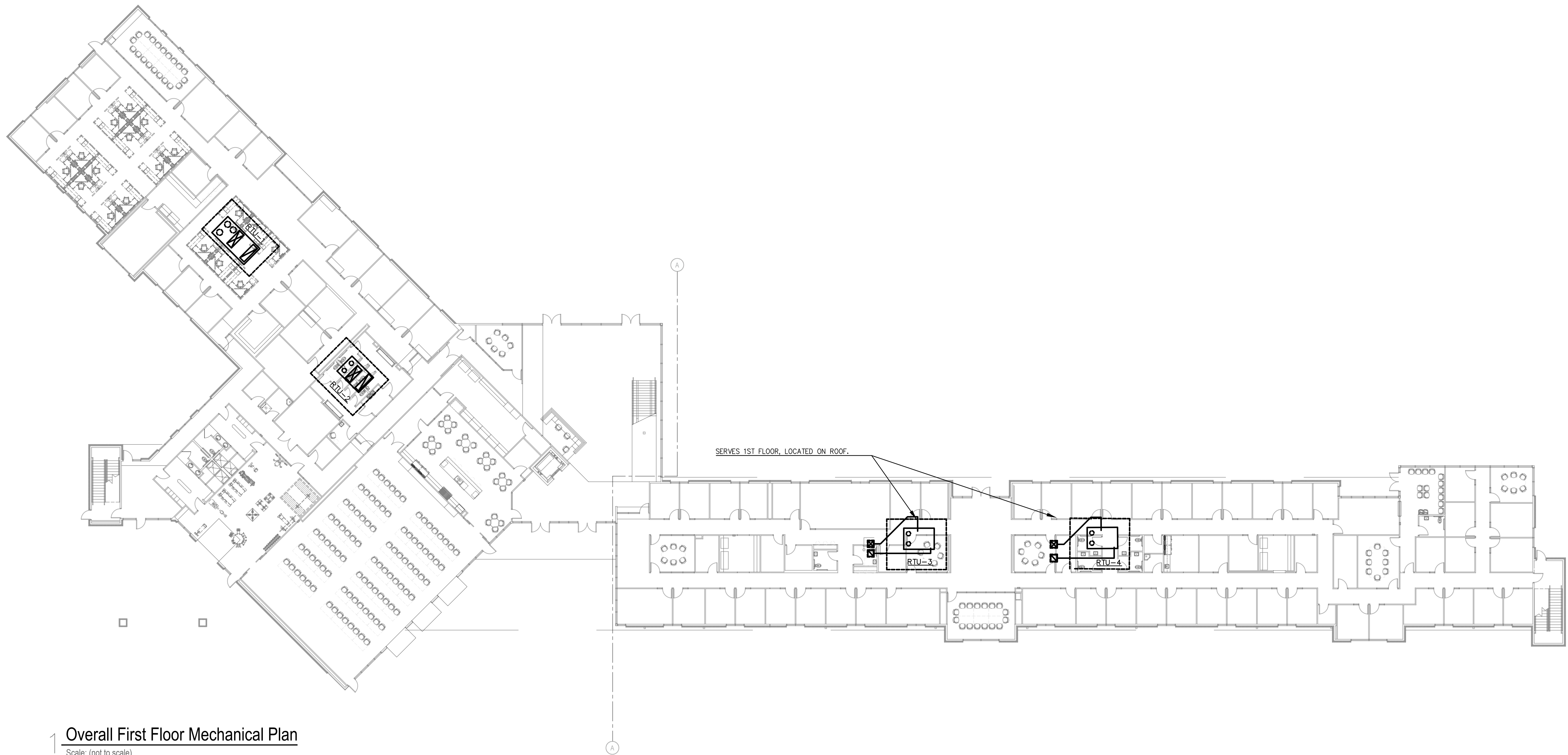
RTU-2 WILL BE HOUSED ON THE ROOF OF THE SINGLE STORY PORTION. BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF TO SERVE THE SINGLE STORY LOCATION. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 28"Ø (26"x24"). THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 28"Ø (26"x24).

RTU-3

RTU-3 WILL BE HOUSED ON THE ROOF OF THE TWO STORY PORTION. BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF OF THE SECOND FLOOR AND REQUIRE A DUCT CHASE TO SERVE THE FIRST FLOOR LOCATION. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 28"Ø (26"x24"). THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 28"Ø (26"x24). DUCT CHASE SHOWN ON M1.20.

RTU-4

RTU-4 WILL BE HOUSED ON THE ROOF OF THE TWO STORY PORTION. BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF OF THE SECOND FLOOR AND REQUIRE A DUCT CHASE TO SERVE THE FIRST FLOOR LOCATION. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 28"Ø (26"x24"). THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 28"Ø (26"x24). DUCT CHASE SHOWN ON M1.20.



1 Overall First Floor Mechanical Plan

Scale: (not to scale)

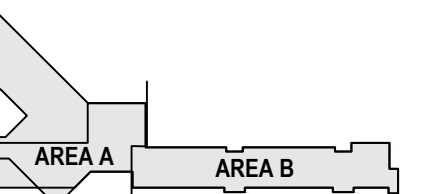


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Key Plan:



Consultants:

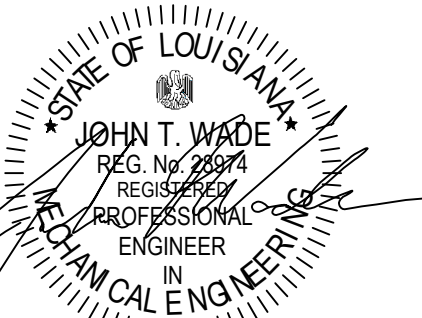


The Newtron Group
New Campus Corporate Headquarters
13820 Airline Highway
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Phase: Bid Documents

Date: 10-26-23

Revisions:



10/20/2023

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Scale: (not to scale)

Sheet Description:
Overall First Floor Mechanical Plan
(MECHANICAL PENETRATION)



GENERAL NOTES:

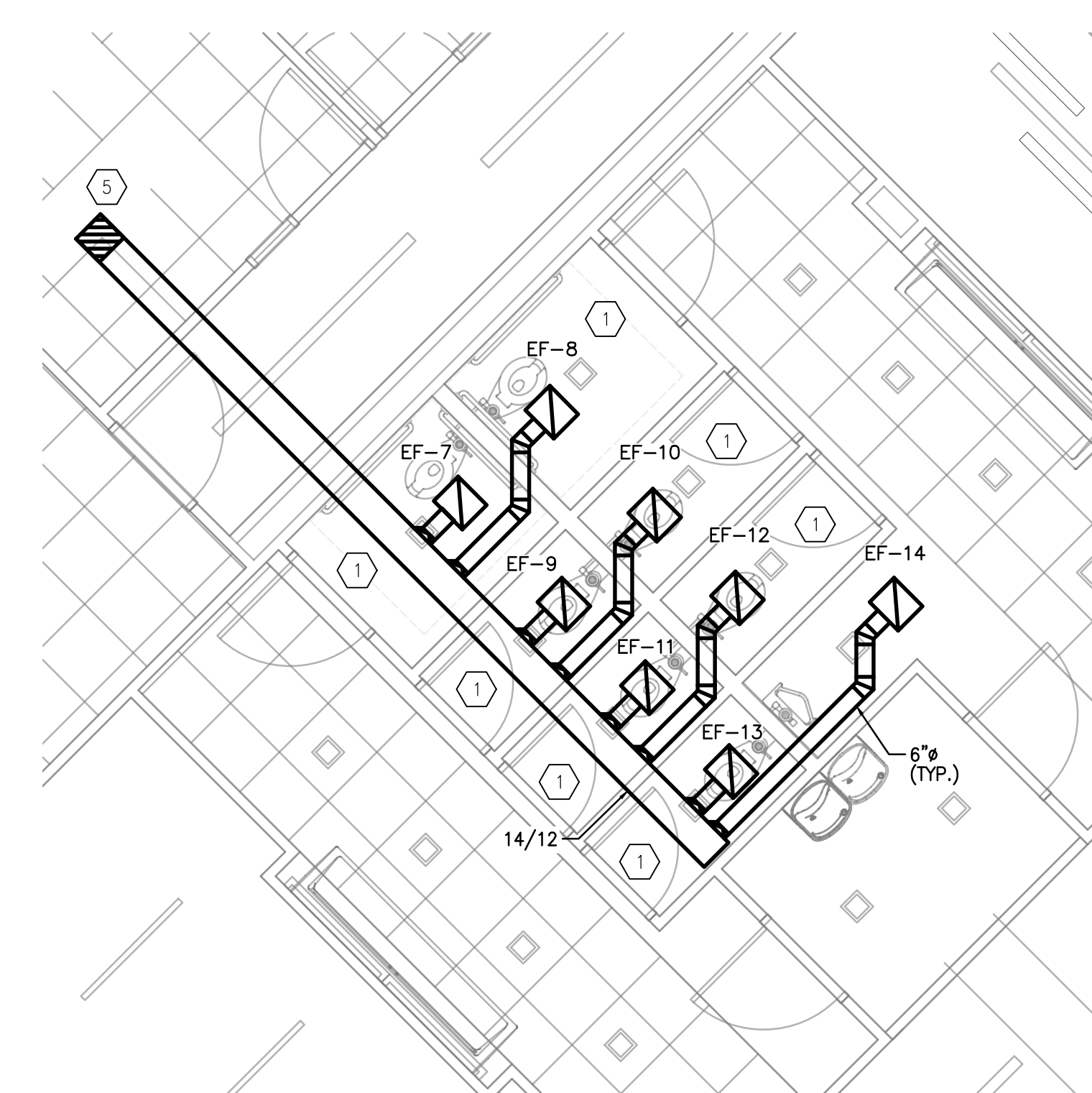
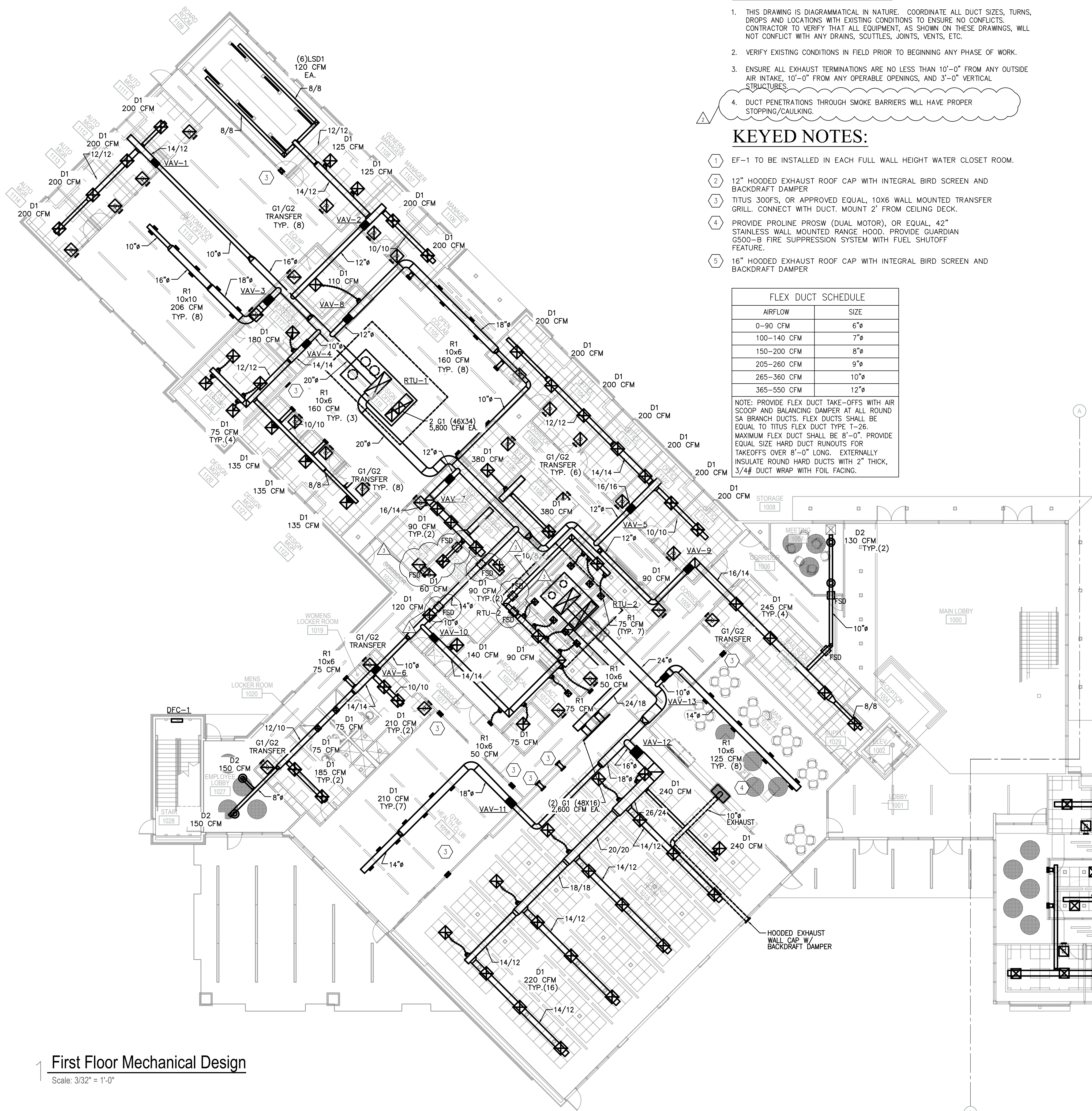
1. THIS DRAWING IS DIAGRAMMATICAL IN NATURE. COORDINATE ALL DUCT SIZES, TURNS, DROPS AND LOCATIONS WITH EXISTING CONDITIONS TO ENSURE NO CONFLICTS. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, ETC.
2. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING ANY PHASE OF WORK.
3. ENSURE ALL EXHAUST TERMINATIONS ARE NO LESS THAN 10'-0" FROM ANY OUTSIDE AIR INTAKE, 10'-0" FROM ANY OPERABLE OPENINGS, AND 3'-0" VERTICAL STRUCTURES.
4. DUCT PENETRATIONS THROUGH SMOKE BARRIERS WILL HAVE PROPER STOPPING/CAULKING.

KEYED NOTES:

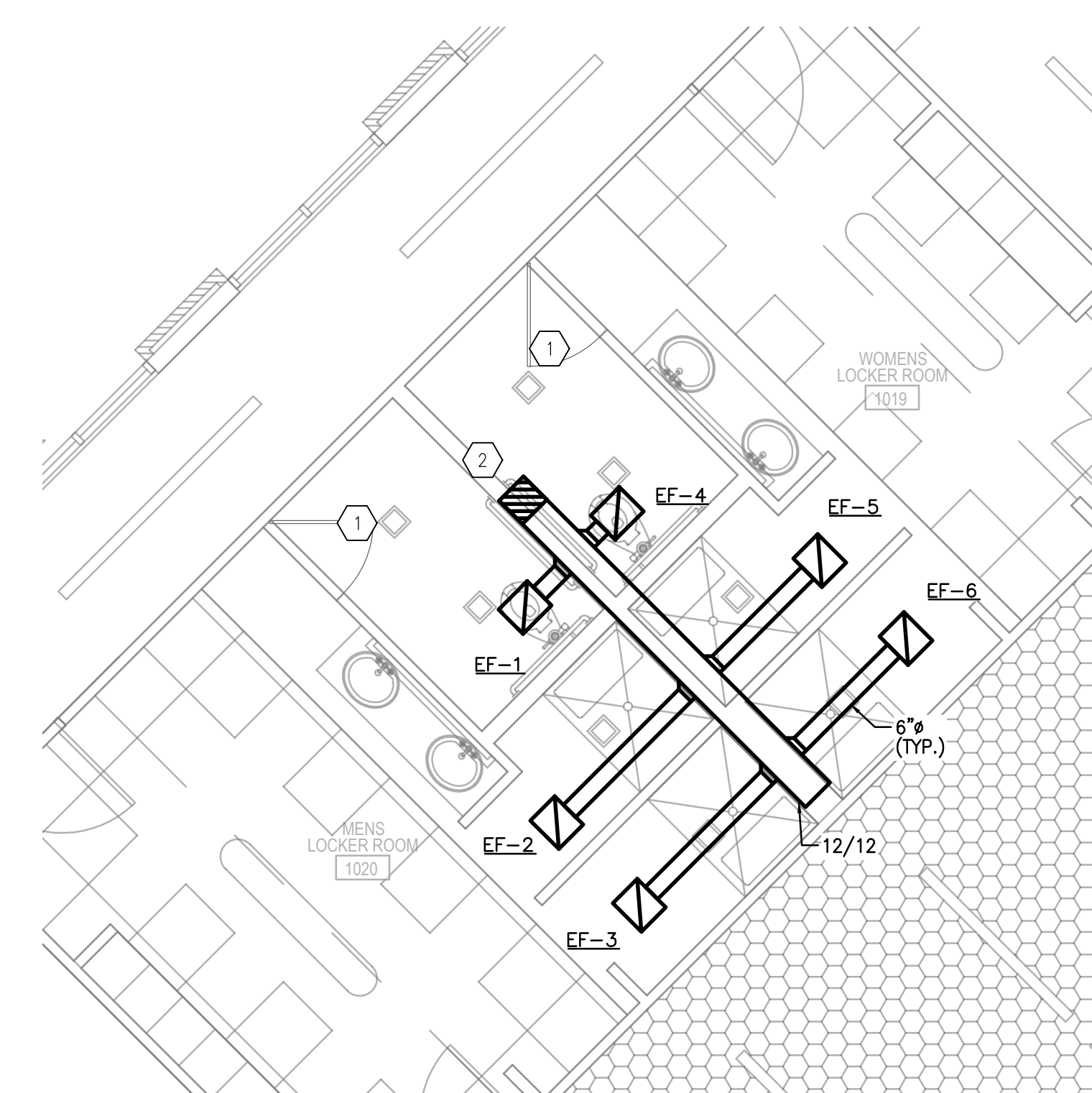
- 1 EF-1 TO BE INSTALLED IN EACH FULL WALL HEIGHT WATER CLOSET ROOM.
- 2 12" HOODED EXHAUST ROOF CAP WITH INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER
- 3 TITUS 300FS, OR APPROVED EQUAL, 10X6 WALL MOUNTED TRANSFER GRILL. CONNECT WITH DUCT. MOUNT 2' FROM CEILING DECK.
- 4 PROVIDE PROLINE PROSW (DUAL MOTOR), OR EQUAL, 42" STAINLESS WALL MOUNTED RANGE HOOD. PROVIDE GUARDIAN G500-B FIRE SUPPRESSION SYSTEM WITH FUEL SHUTOFF FEATURE.
- 5 16" HOODED EXHAUST ROOF CAP WITH INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER

FLEX DUCT SCHEDULE	
AIRFLOW	SIZE
0-90 CFM	6"
100-140 CFM	7"
150-200 CFM	8"
205-280 CFM	9"
285-360 CFM	10"
365-550 CFM	12"

NOTE: PROVIDE FLEX DUCT TAKE-OFFS WITH AIR SCOOP AND BALANCING DAMPER AT ALL ROUND SA BRANCH DUCTS. FLEX DUCTS SHALL BE EQUAL TO TITUS FLEX DUCT TYPE T-26. MAXIMUM FLEX DUCT SHALL BE 8'-0". PROVIDE EQUAL SIZE HARD DUCT RUNOUTS FOR TAKEOFFS OVER 8'-0" LONG. EXTERNALLY INSULATE ROUND HARD DUCTS WITH 2" THICK, 3/4" DUCT WRAP WITH FOIL FACING.



2 Enlarged Restroom Exhaust Plan
Scale: 1/4" = 1'-0"



3 Enlarged Locker Room Exhaust Plan
Scale: 1/4" = 1'-0"

1 First Floor Mechanical Design
Scale: 3/32" = 1'-0"

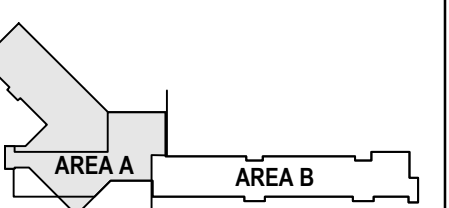


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Key Plan:



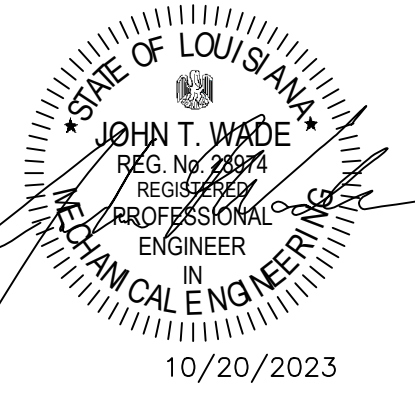
Consultants:



GSE
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Date: 10-26-23
Revisions:
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PERMIT REVISIONS 4.1.24
PERMIT REVISIONS 4.15.24



Professional Seal
Scale: 3/32" = 1'-0"
Sheet Description:
First Floor Mechanical Design
Sheet 1 of 2



GENERAL NOTES:

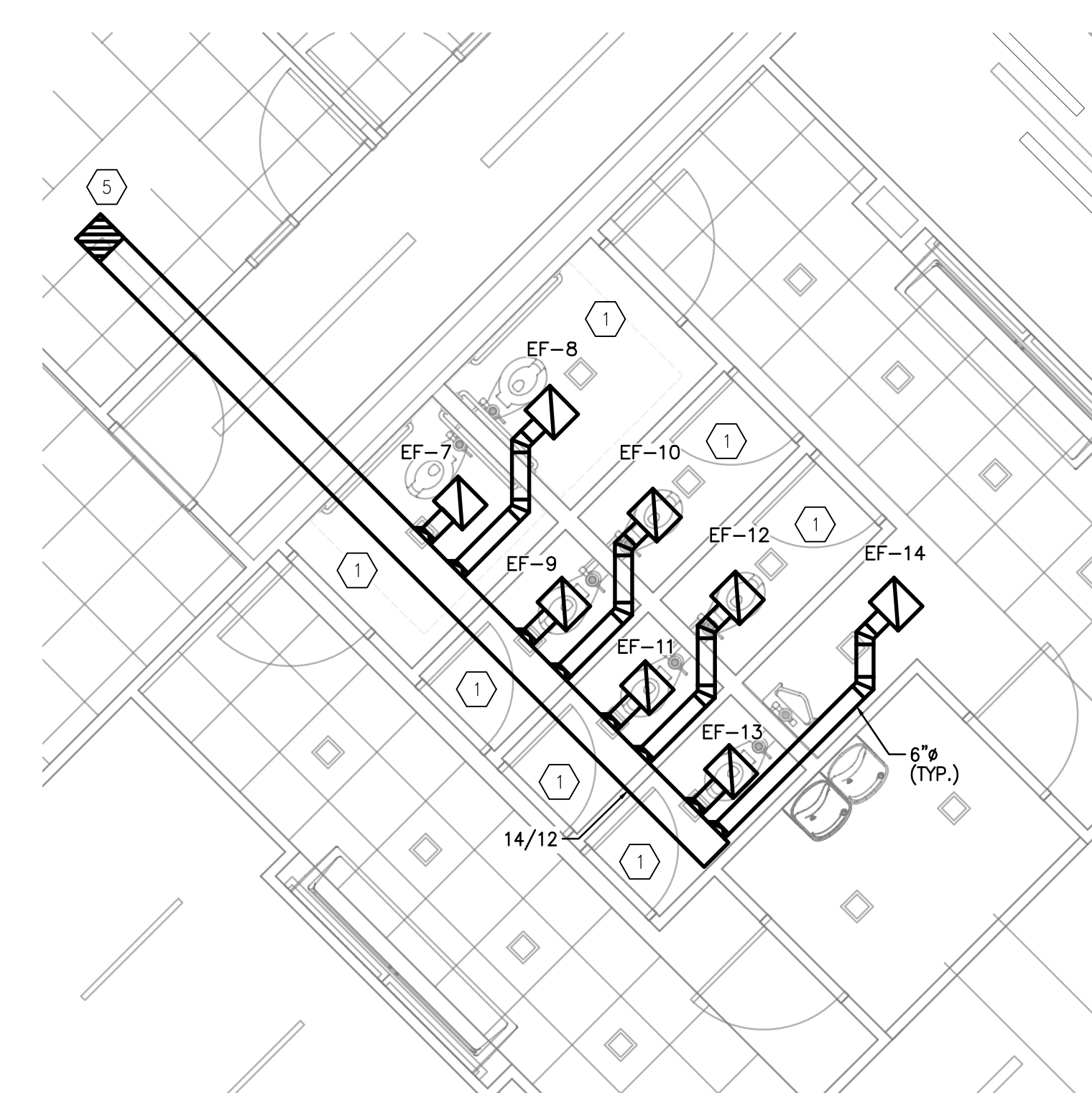
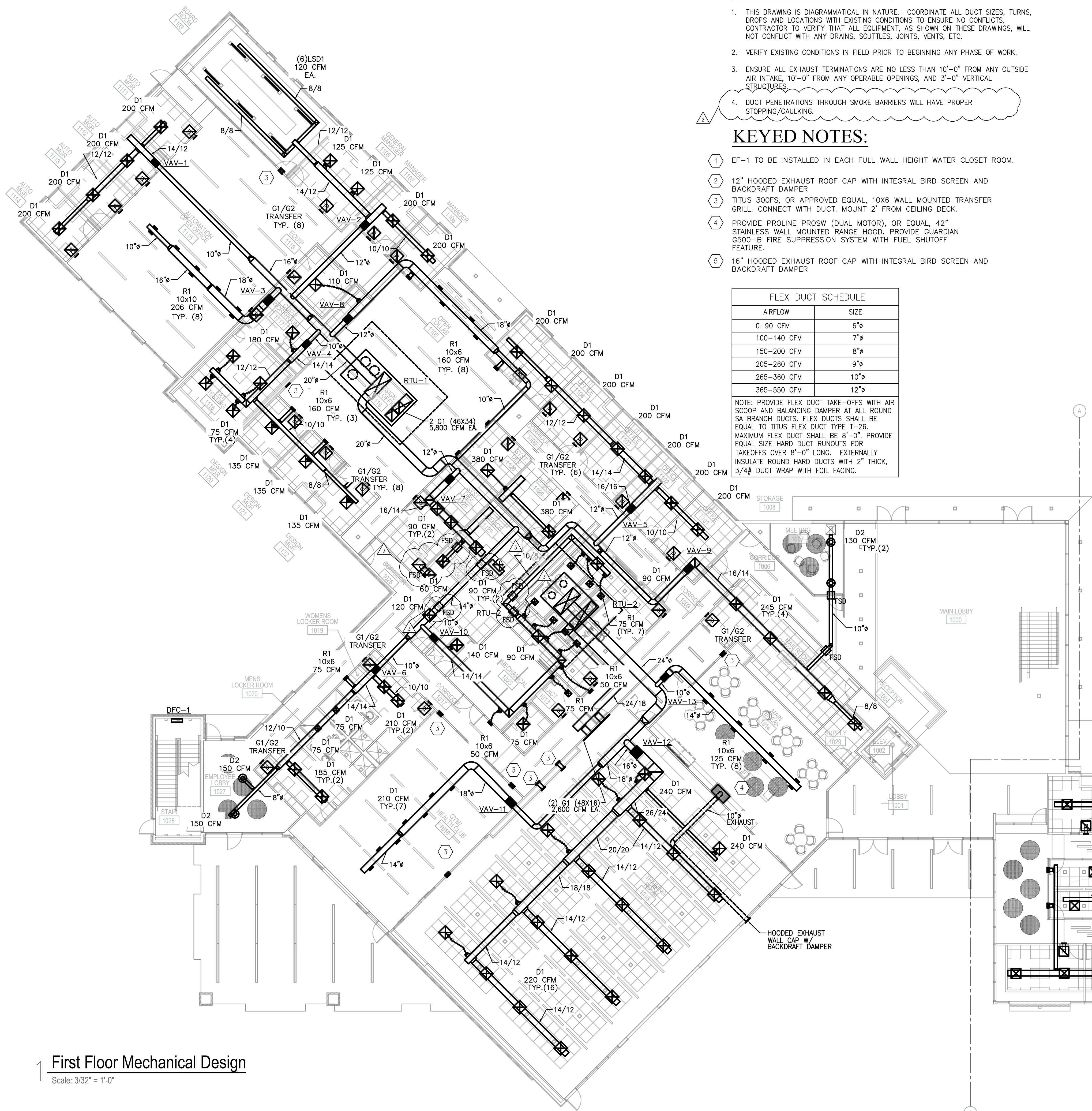
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4. DUCT PENETRATIONS THROUGH SMOKE BARRIERS WILL HAVE PROPER STOPPING/CAULKING.

KEYED NOTES:

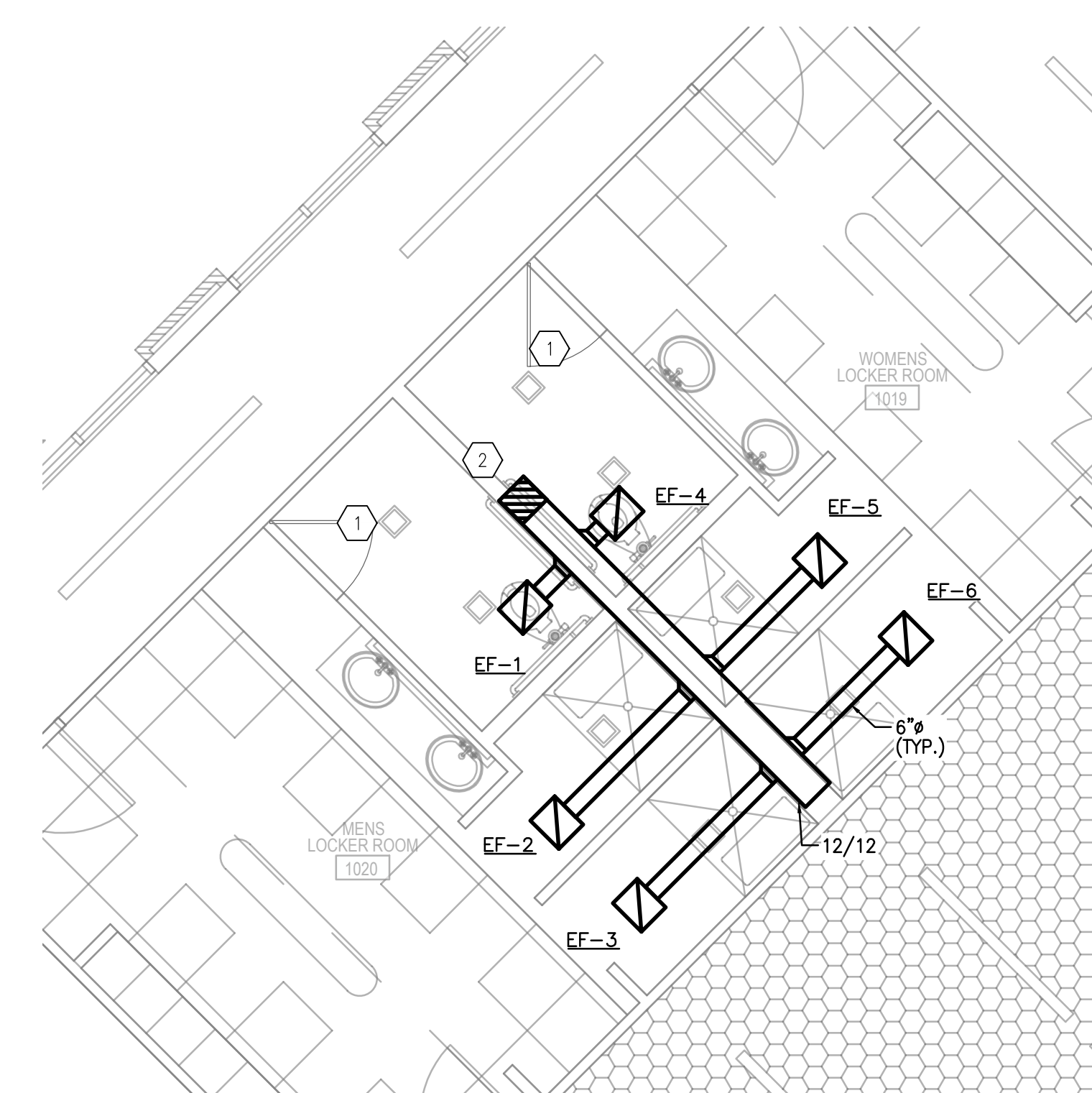
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- 2 12" HOODED EXHAUST ROOF CAP WITH INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER
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FLEX DUCT SCHEDULE	
AIRFLOW	SIZE
0-90 CFM	6"
100-140 CFM	7"
150-200 CFM	8"
205-280 CFM	9"
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365-550 CFM	12"

NOTE: PROVIDE FLEX DUCT TAKE-OFFS WITH AIR SCOOP AND BALANCING DAMPER AT ALL ROUND SA BRANCH DUCTS. FLEX DUCTS SHALL BE EQUAL TO TITUS FLEX DUCT TYPE T-26. MAXIMUM FLEX DUCT SHALL BE 8'-0". PROVIDE EQUAL SIZE HARD DUCT RUNOUTS FOR TAKEOFFS OVER 8'-0" LONG. EXTERNALLY INSULATE ROUND HARD DUCTS WITH 2" THICK, 3/4" DUCT WRAP WITH FOIL FACING.



2 Enlarged Restroom Exhaust Plan
Scale: 1/4" = 1'-0"

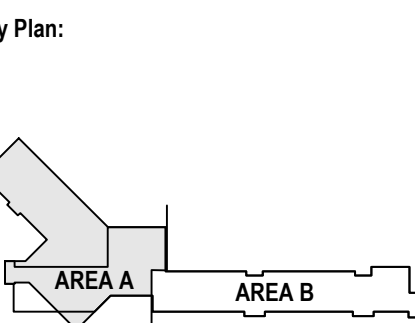


3 Enlarged Locker Room Exhaust Plan
Scale: 1/4" = 1'-0"

1 First Floor Mechanical Design
Scale: 3/32" = 1'-0"

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PERMIT REVISIONS 4.15.24

STATE OF LOUISIANA
JOHN T. WADE
REG. NO. 25994
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
10/20/2023

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Scale: 3/32" = 1'-0"
Sht Description:
First Floor Mechanical Design
Sheet 1 of 2

North
M1.11

GENERAL NOTES:

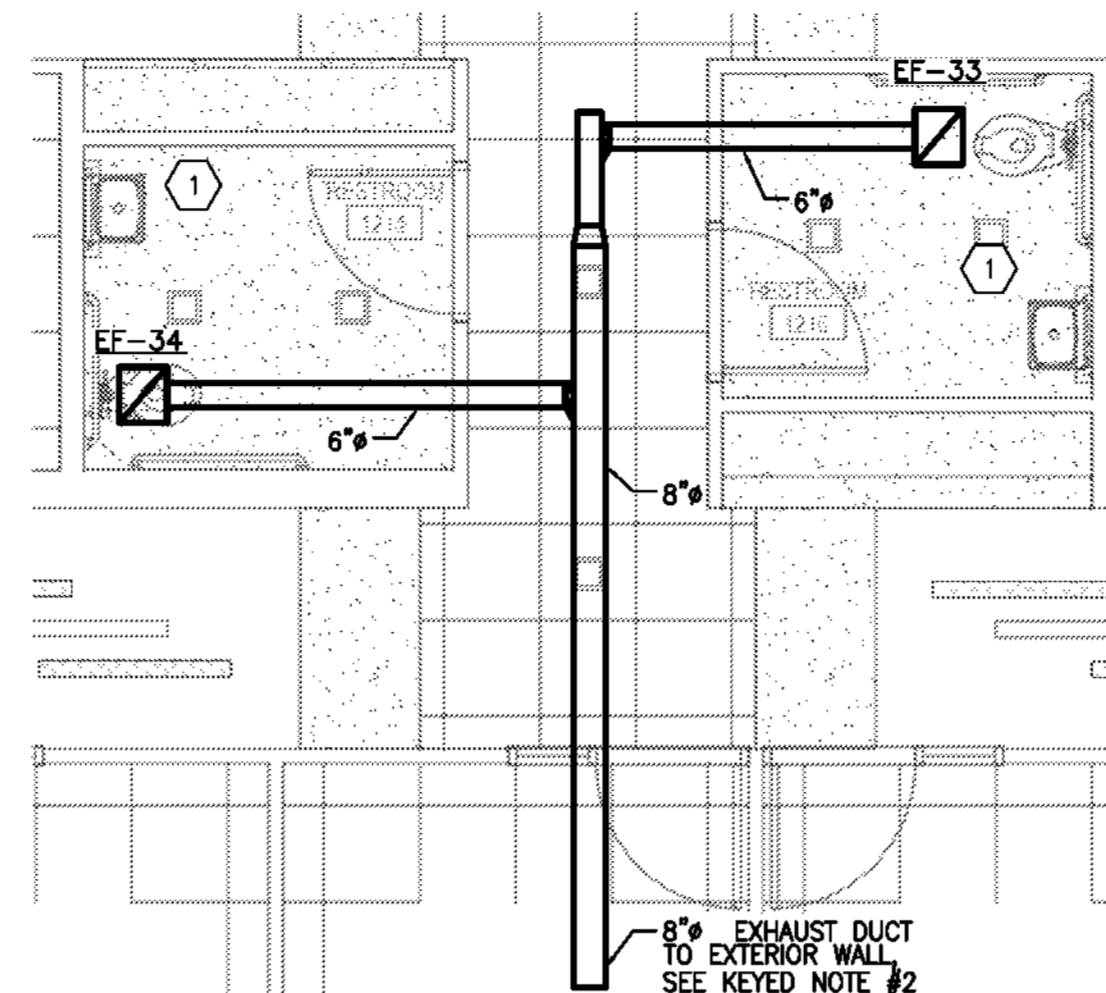
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KEYED NOTES:

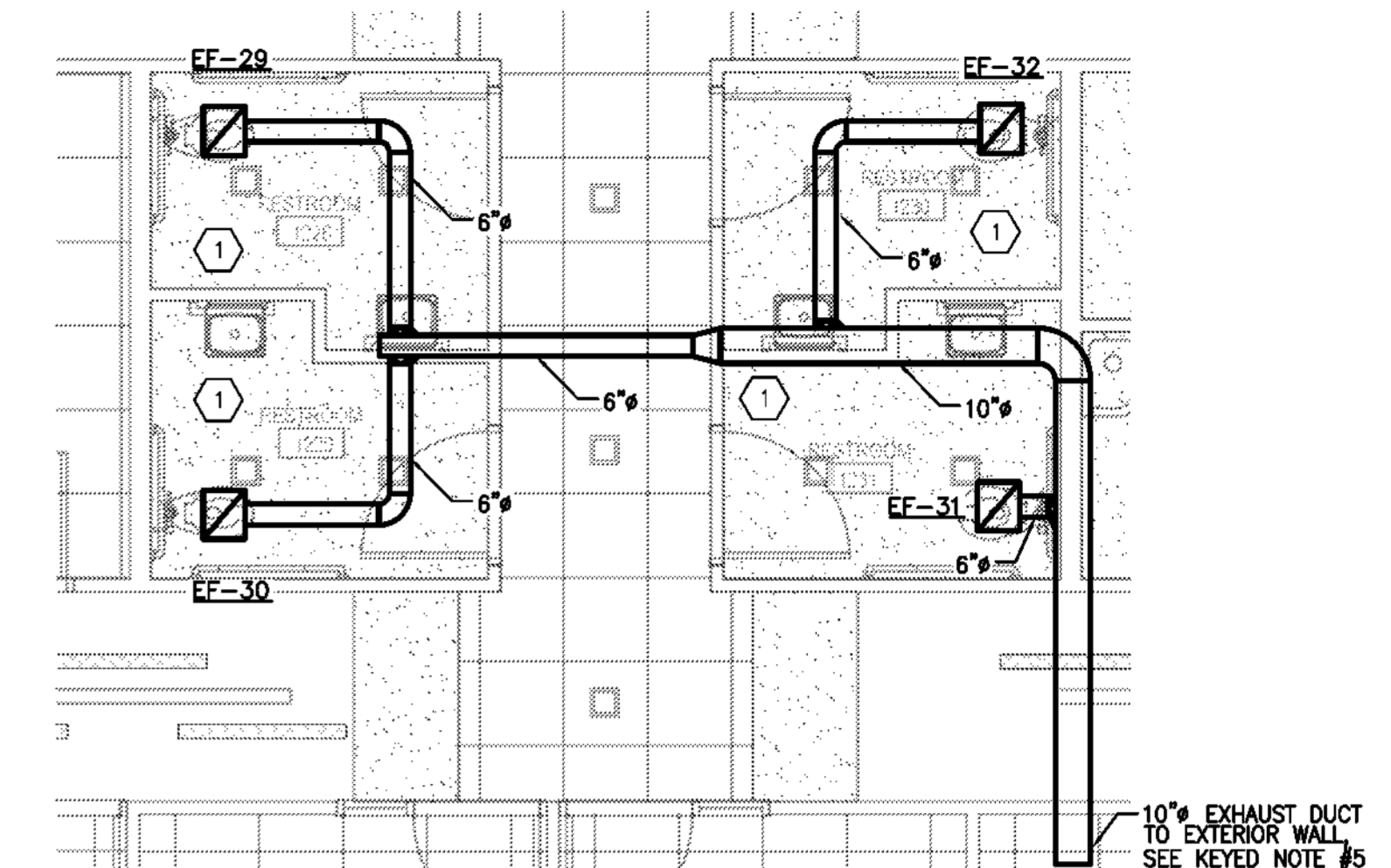
- EF-1 TO BE INSTALLED IN EACH FULL WALL HEIGHT WATER CLOSET ROOM.
- RESTROOM EXHAUST CONTINUED FROM RESTROOM GROUP 1, TERMINATE WITH 8" HOODED EXHAUST WALL CAP WITH INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER
- SUPPLY AND RETURN DUCT THROUGH CHASE TO RTU-3
- SUPPLY AND RETURN DUCT THROUGH CHASE TO RTU-4
- RESTROOM EXHAUST CONTINUED FROM RESTROOM GROUP 2, TERMINATE WITH 10" HOODED EXHAUST WALL CAP WITH INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER

FLEX DUCT SCHEDULE	
AIRFLOW	SIZE
0-90 CFM	6"
100-140 CFM	7"
150-200 CFM	8"
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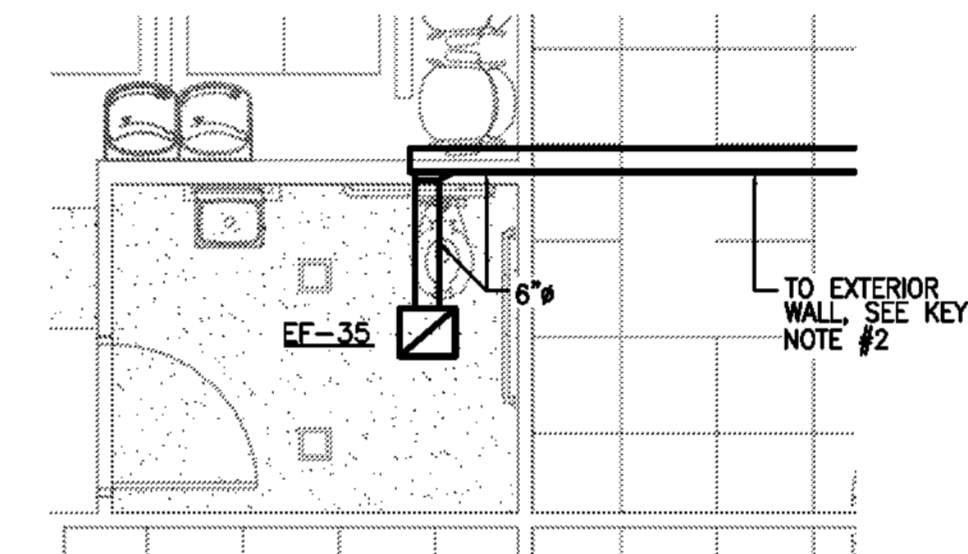
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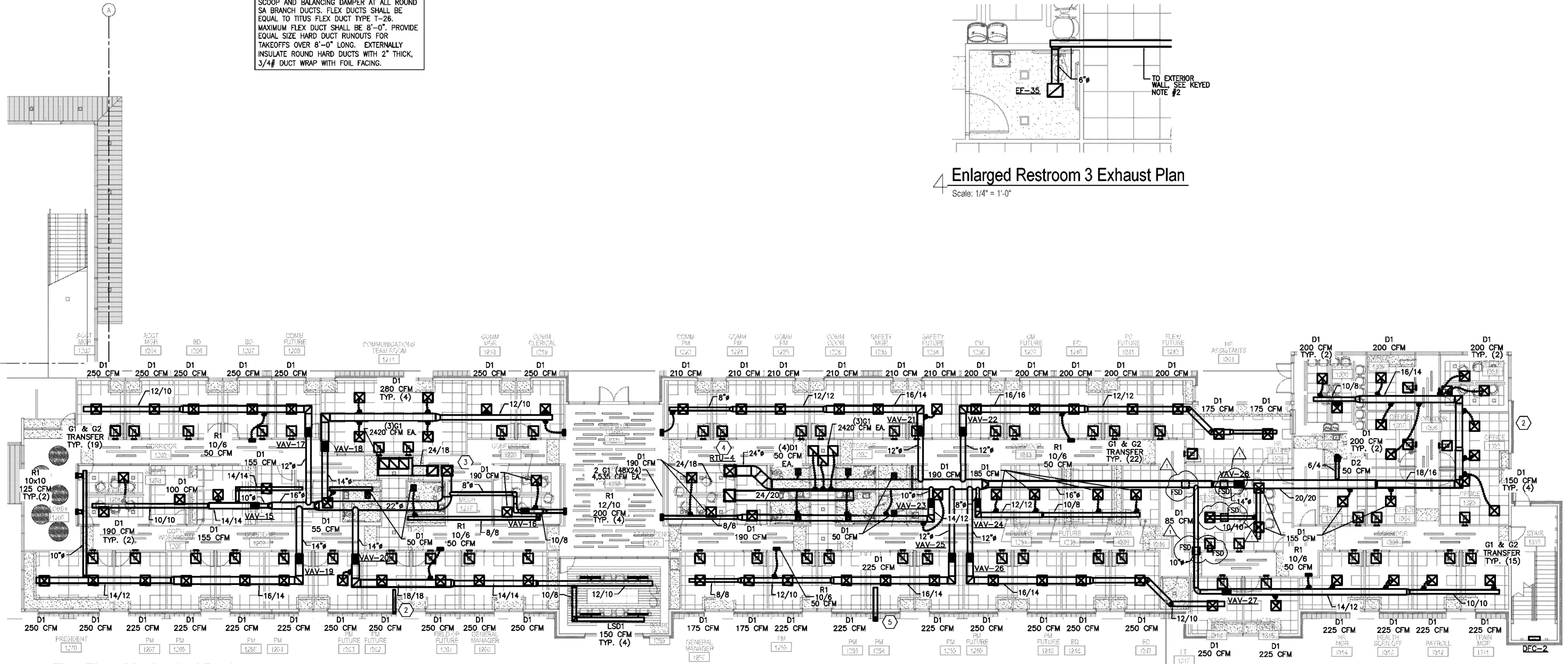
2 Enlarged Restroom 1 Exhaust Plan
Scale: 1/4" = 1'-0"



3 Enlarged Restroom 2 Exhaust Plan
Scale: 1/4" = 1'-0"



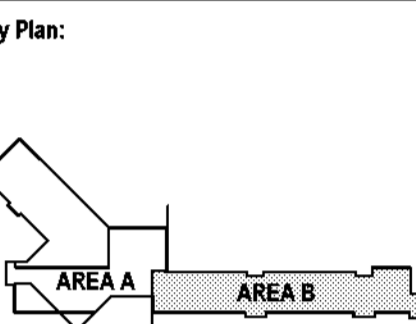
4 Enlarged Restroom 3 Exhaust Plan
Scale: 1/4" = 1'-0"



1 First Floor Mechanical Design
Scale: 3/32" = 1'-0"

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1 PERMIT REVISIONS 4.15.24

STATE OF LOUISIANA
JOHN T. WADE
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
10/20/2023

Professional Seal
Scale: 3/32" = 1'-0"
Sht Description:
First Floor Mechanical Design
Sheet 2 of 2

North
M1.12

PENETRATION NOTES

RTU-3

RTU-3 WILL BE HOUSED ON THE ROOF OF THE TWO STORY PORTION BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF OF THE SECOND FLOOR AND REQUIRE A DUCT CHASE TO SERVE THE FIRST FLOOR LOCATION. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 28" (26"x24") THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 28" (26"x24").

RTU-4

RTU-4 WILL BE HOUSED ON THE ROOF OF THE TWO STORY PORTION BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF OF THE SECOND FLOOR AND REQUIRE A DUCT CHASE TO SERVE THE FIRST FLOOR LOCATION. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 28" (26"x24") THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 28" (26"x24").

RTU-5

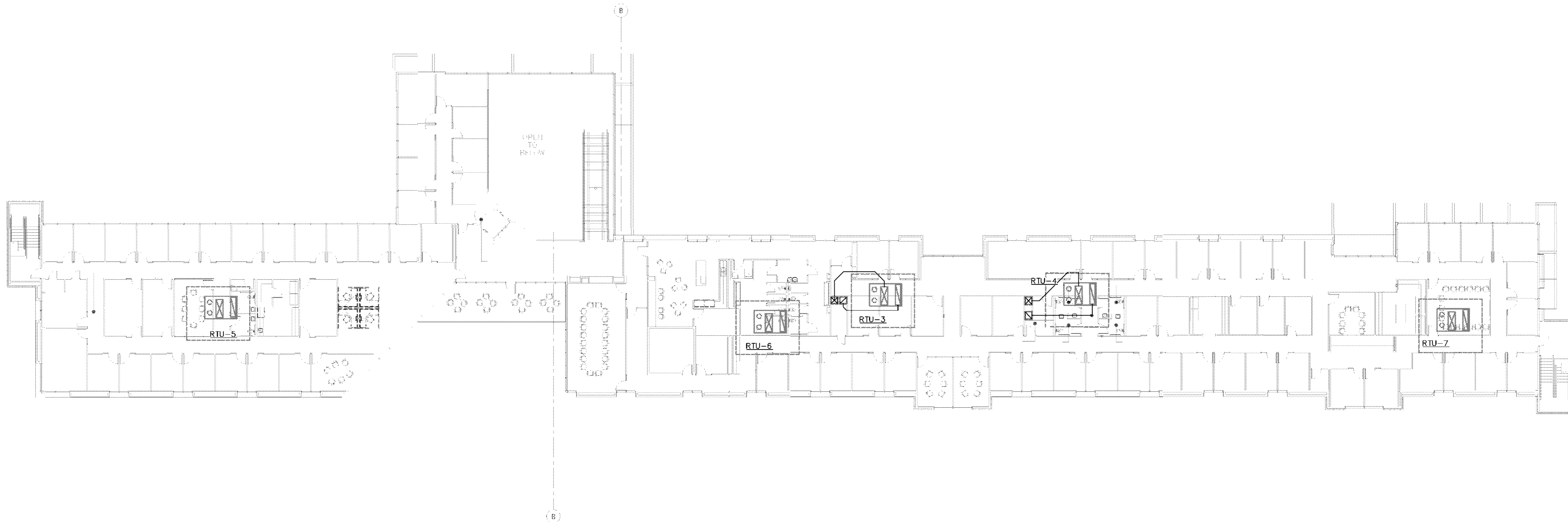
RTU-5 WILL BE HOUSED ON THE ROOF OF THE TWO STORY PORTION BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF OF THE SECOND FLOOR AND SERVE THE SECOND FLOOR. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 24" (21"x22") THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 24" (21"x22").

RTU-6

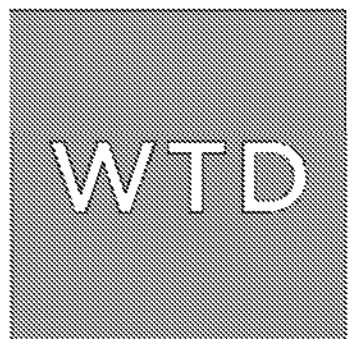
RTU-6 WILL BE HOUSED ON THE ROOF OF THE TWO STORY PORTION BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF OF THE SECOND FLOOR AND SERVE THE SECOND FLOOR. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 22" (20"x22") THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 22" (20"x22").

RTU-7

RTU-7 WILL BE HOUSED ON THE ROOF OF THE TWO STORY PORTION BOTH SUPPLY AND RETURN WILL PENETRATE THE ROOF OF THE SECOND FLOOR AND REQUIRE A DUCT CHASE TO SERVE THE FIRST FLOOR LOCATION. THE SUPPLY DUCT WILL BE SIZED FOR A PENETRATION OF 28" (26"x24") THE RETURN DUCT WILL BE SIZED FOR A PENETRATION OF 28" (26"x24").



1 Overall Second Floor Plan
Scale: (not to scale)

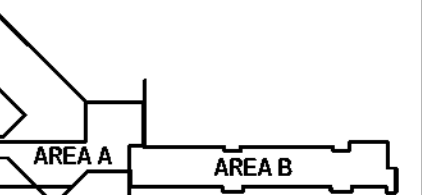


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Key Plan:



Consultants:



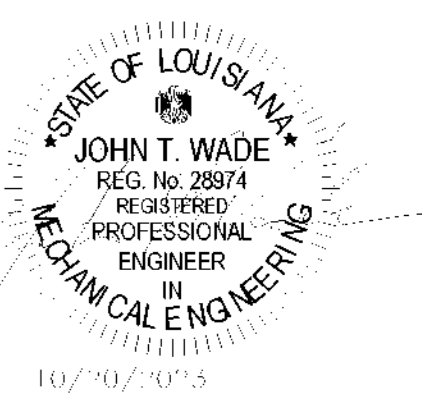
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71222-264-5256 601226-264-7244

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Date: 10-29-23

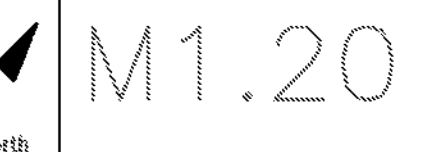
Revisions:



Professional Seal

Scale: (not to scale)

SN Description:
Overall Second Floor Mechanical Plan



GENERAL NOTES:

1. THIS DRAWING IS DIAGRAMMATICAL IN NATURE. COORDINATE ALL DUCT SIZES, TURNS, DROPS AND LOCATIONS WITH EXISTING CONDITIONS TO ENSURE NO CONFLICTS. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, ETC.
2. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING ANY PHASE OF WORK.
3. ENSURE ALL EXHAUST TERMINATIONS ARE NO LESS THAN 10'-0" FROM ANY OUTSIDE AIR INTAKE, 10'-0" FROM ANY OPERABLE OPENINGS, AND 3'-0" VERTICAL STRUCTURES.
4. DUCT PENETRATIONS THROUGH SMOKE BARRIERS WILL HAVE PROPER STOPPING/CAULKING.

KEYED NOTES:

- 1 8" DUCT UP TO GREENHECK GRS-8, OR EQUIVALENT, ROOF CAP. PROVIDE ROOF CURB SIZED TO MATCH ROOF CAP. COORDINATE CURB WITH ROOF CONSTRUCTION. PROVIDE ALL NECESSARY ACCESSORIES/CONNECTORS TO ENSURE A LEAK-FREE INSTALLATION.
- 2 LOCATION OF HUMIDISTAT FOR INDIVIDUAL RTU
- 3 TITUS 300FS, OR APPROVED EQUAL, 10X6 WALL MOUNTED TRANSFER GRILL. CONNECT WITH DUCT. MOUNT 2' FROM CEILING DECK.

FLEX DUCT SCHEDULE	
AIRFLOW	SIZE
0-90 CFM	6"
100-140 CFM	7"
150-200 CFM	8"
205-260 CFM	9"
265-360 CFM	10"
365-550 CFM	12"

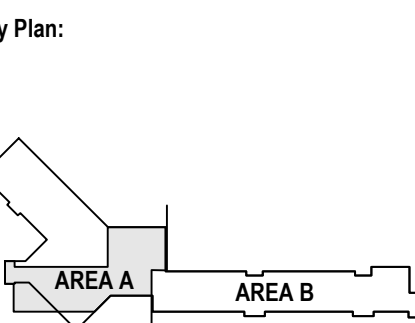
NOTE: PROVIDE FLEX DUCT TAKE-OFFS WITH AIR SCOOP AND BALANCING DAMPER AT ALL ROUND SA BRANCH DUCTS. FLEX DUCTS SHALL BE EQUAL TO TITUS FLEX DUCT TYPE T-26. MAXIMUM FLEX DUCT SHALL BE 8'-0". PROVIDE EQUAL SIZE HARD DUCT RUNOUTS FOR TAKEOFFS OVER 8'-0" LONG. EXTERNALLY INSULATE ROUND HARD DUCTS WITH 2" THICK, 3/4# DUCT WRAP WITH FOIL FACING.



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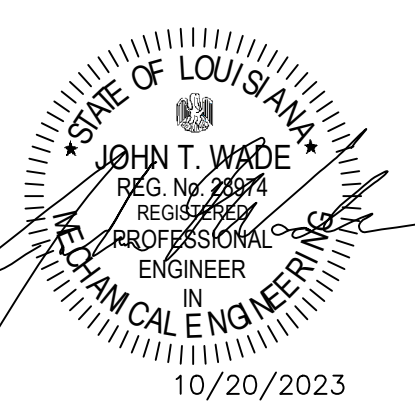


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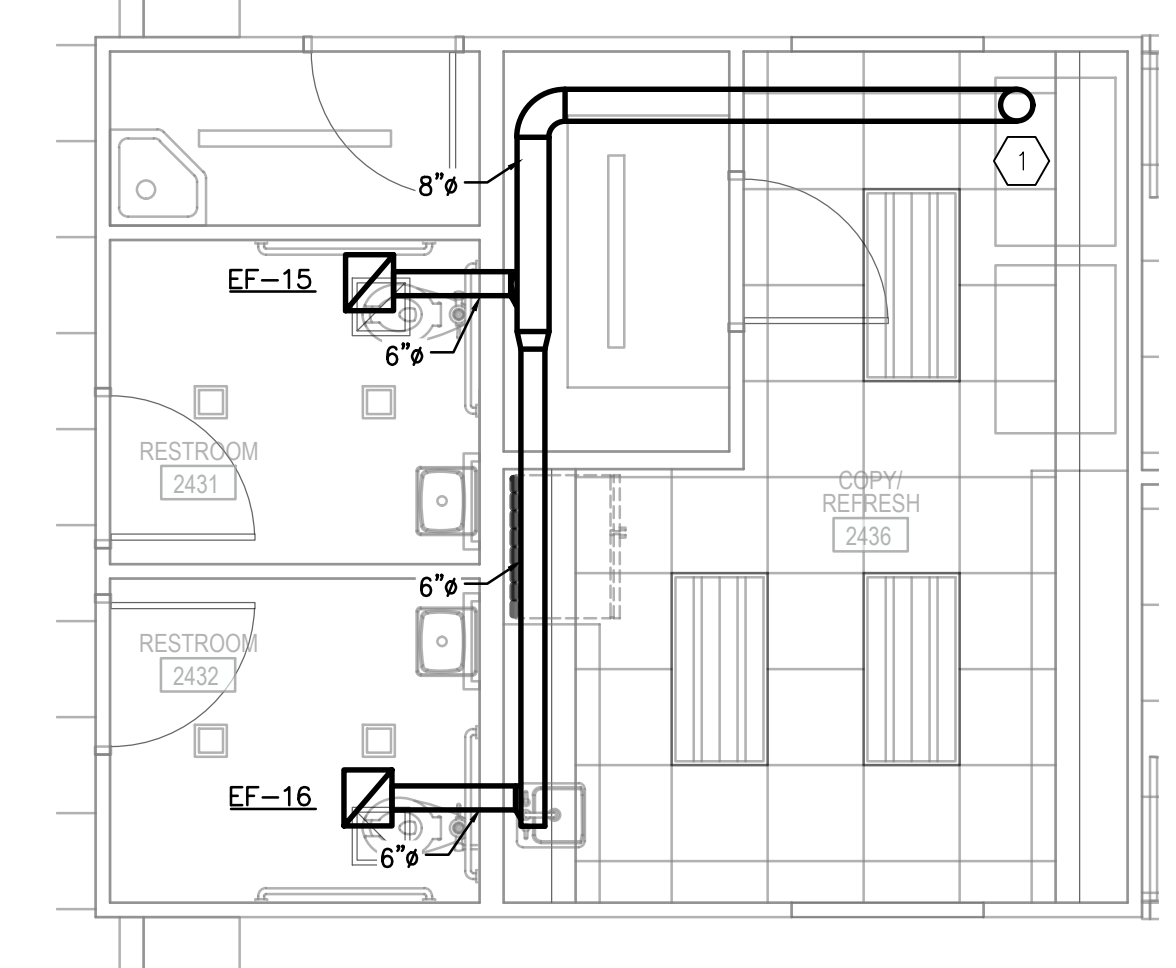
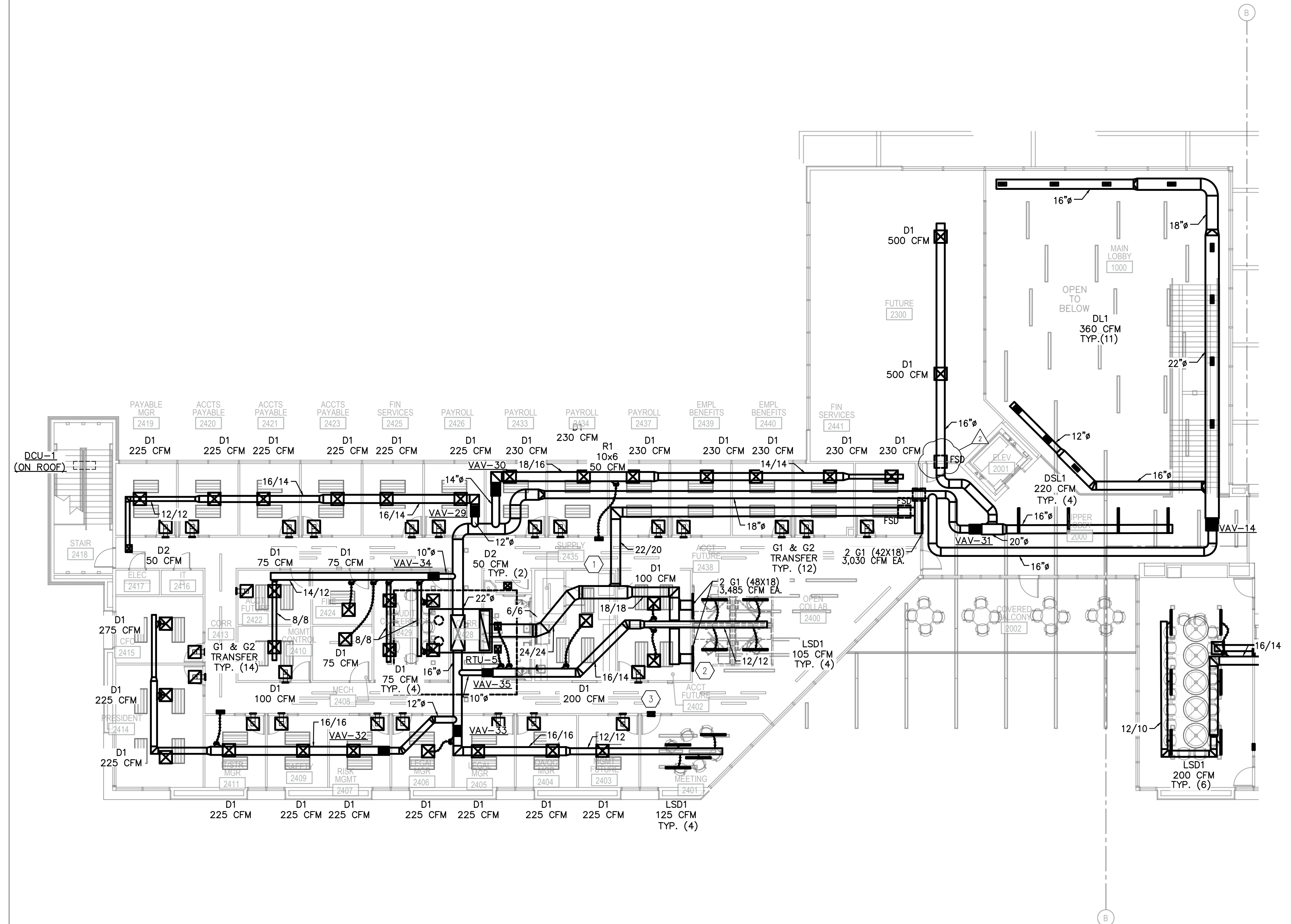


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Phase: Bid Documents
Date: 10-26-23
Revisions:
PERMIT REVISIONS 4.1.24
PERMIT REVISIONS 4.15.24



Professional Seal
Scale: 3/32" = 1'-0"
Sht Description:
Second Floor Mechanical Plan
Sheet 1 of 2



2 Enlarged Restroom Exhaust Plan
Scale: 1/4" = 1'-0"

1 Second Floor Mechanical Plan
Scale: 3/32" = 1'-0"

GENERAL NOTES:

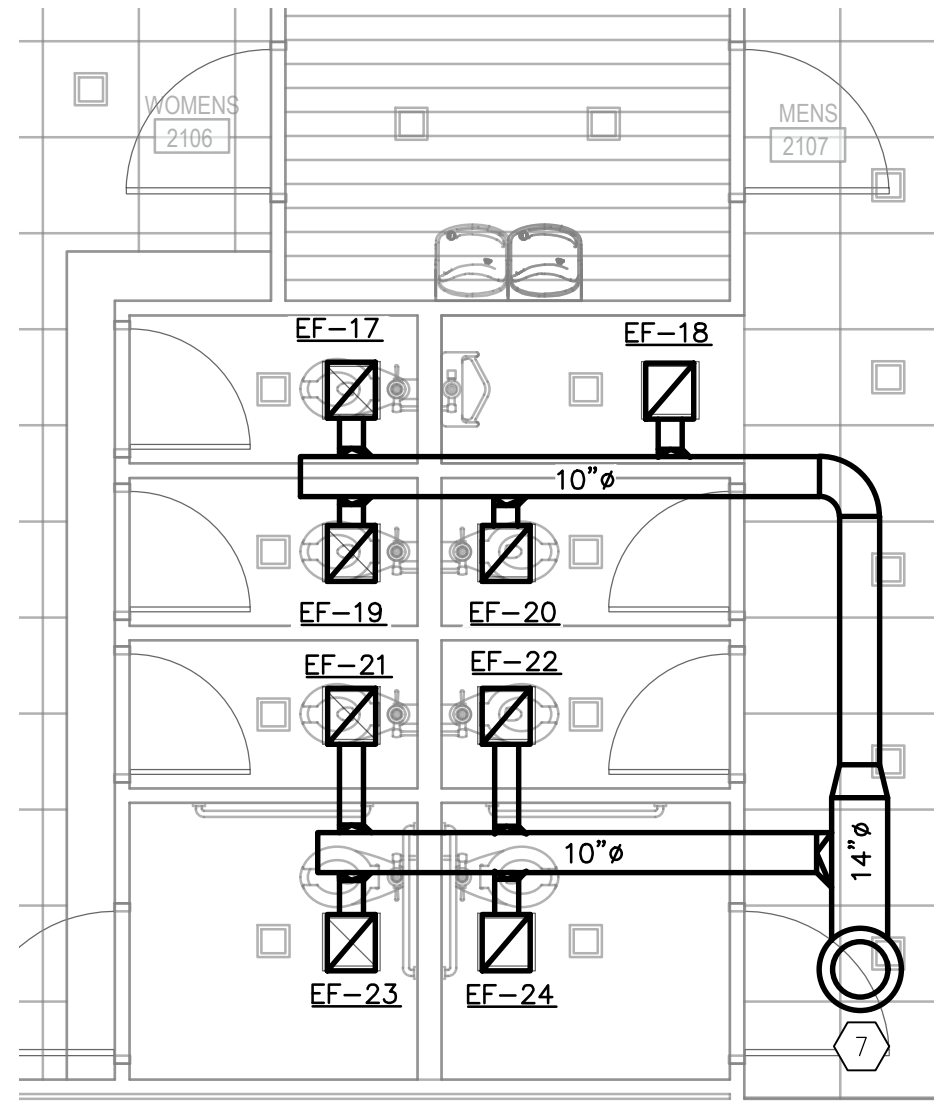
1. THIS DRAWING IS DIAGRAMMATICAL IN NATURE. COORDINATE ALL DUCT SIZES, TURNS, DROPS AND LOCATIONS WITH EXISTING CONDITIONS TO ENSURE NO CONFLICTS. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTILES, JOINTS, VENTS, ETC.
2. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING ANY PHASE OF WORK.
3. ENSURE ALL EXHAUST TERMINATIONS ARE NO LESS THAN 10'-0" FROM ANY OUTSIDE AIR INTAKE, 10'-0" FROM ANY OPERABLE OPENINGS, AND 3'-0" VERTICAL STRUCTURES.

KEYED NOTES:

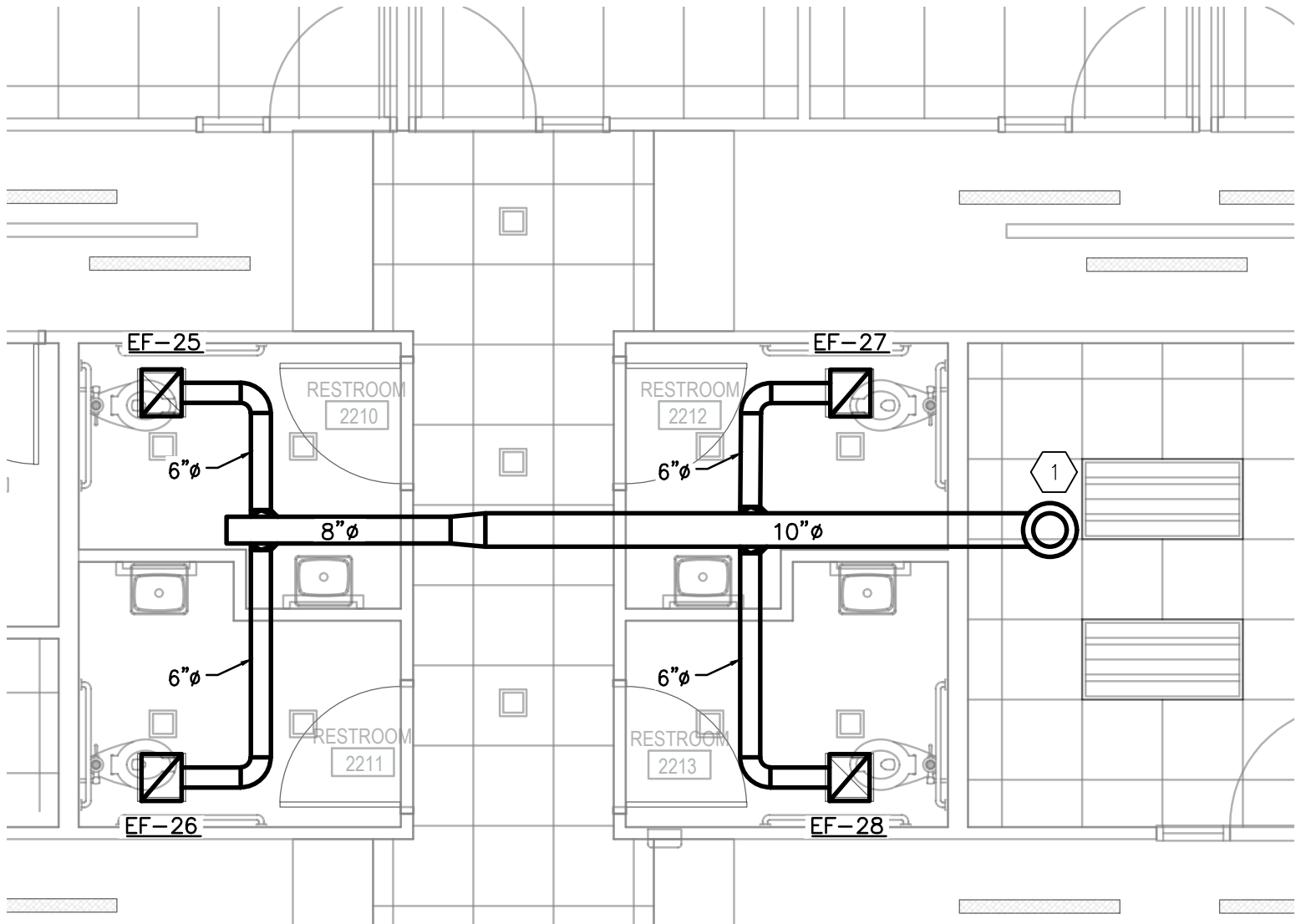
- 1 10" DUCT UP TO GREENHECK GRS-10, OR EQUIVALENT, ROOF CAP. PROVIDE ROOF CURB SIZED TO MATCH ROOF CAP. COORDINATE CURB WITH ROOF CONSTRUCTION. PROVIDE ALL NECESSARY ACCESSORIES/CONNECTORS TO ENSURE A LEAK-FREE INSTALLATION.
- 2 LOCATION OF HUMIDISTAT FOR INDIVIDUAL RTU
- 3 24"x22" FLOOR PENETRATION FOR DUCTWORK TO SERVE 1ST FLOOR FROM RTU-3
- 4 26"x24" FLOOR PENETRATION FOR DUCTWORK TO SERVE 1ST FLOOR FROM RTU-4
- 5 10" HOODED EXHAUST WALL CAP WITH INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER
- 6 TITUS 300FS, OR APPROVED EQUAL, 10X6 WALL MOUNTED TRANSFER GRILL. CONNECT WITH DUCT. MOUNT 2' FROM CEILING DECK.
- 7 14" DUCT UP TO GREENHECK GRS-14, OR EQUIVALENT, ROOF CAP. PROVIDE ROOF CURB SIZED TO MATCH ROOF CAP. COORDINATE CURB WITH ROOF CONSTRUCTION. PROVIDE ALL NECESSARY ACCESSORIES/CONNECTORS TO ENSURE A LEAK-FREE INSTALLATION.

FLEX DUCT SCHEDULE	
AIRFLOW	SIZE
0-90 CFM	6"
100-140 CFM	7"
150-200 CFM	8"
205-260 CFM	9"
265-360 CFM	10"
365-550 CFM	12"

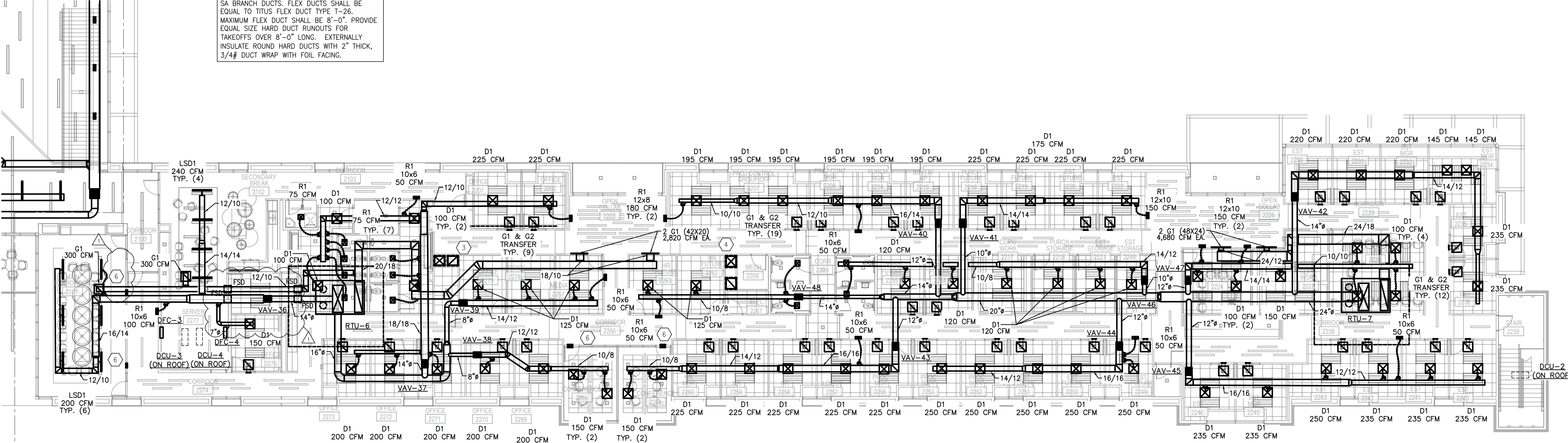
NOTE: PROVIDE FLEX DUCT TAKE-OFFS WITH AIR SCOOP AND BALANCING DAMPER AT ALL ROUND SA BRANCH DUCTS. FLEX DUCTS SHALL BE EQUAL TO TITUS FLEX DUCT TYPE T-26. MAXIMUM FLEX DUCT SHALL BE 8'-0". PROVIDE EQUAL SIZE HARD DUCT RUNOUTS FOR TAKEOFFS OVER 8'-0" LONG. EXTERNALLY INSULATE ROUND HARD DUCTS WITH 2" THICK, 3/4# DUCT WRAP WITH FOIL FACING.



2 Enlarged Restroom 1 Exhaust Plan
Scale: 1/4" = 1'-0"



3 Enlarged Restroom 2 Exhaust Plan
Scale: 1/4" = 1'-0"



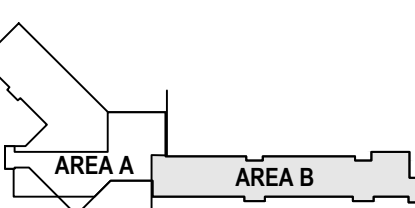
1 Second Floor Mechanical Plan
Scale: 3/32" = 1'-0"



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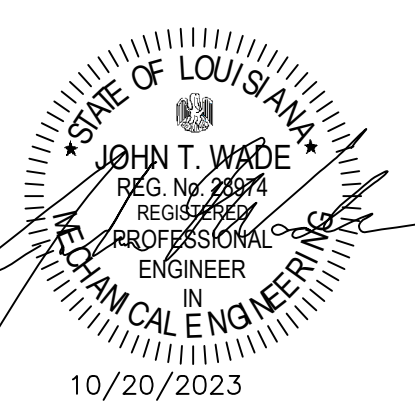
Key Plan:



Consultants:

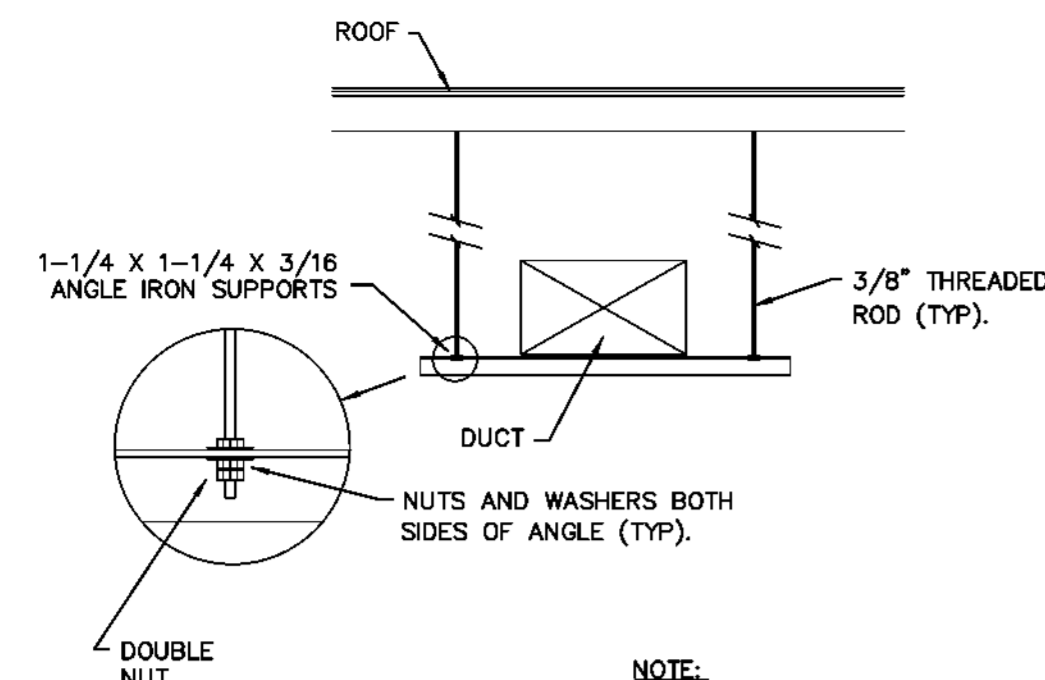
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PERMIT REVISIONS 4.15.24



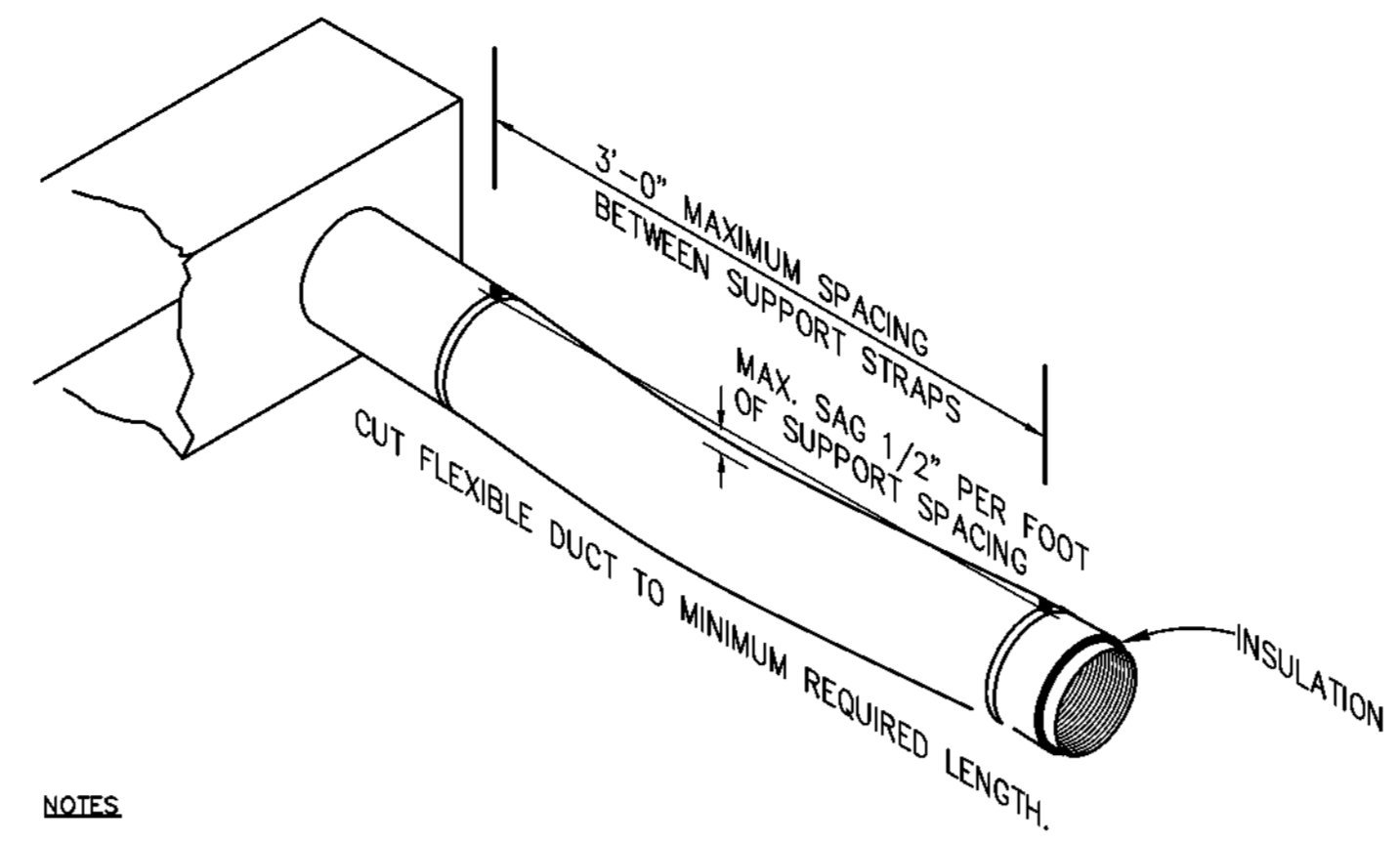
Professional Seal
Scale: 3/32" = 1'-0"
Sheet Description:
Second Floor Mechanical Plan
Sheet 2 of 2





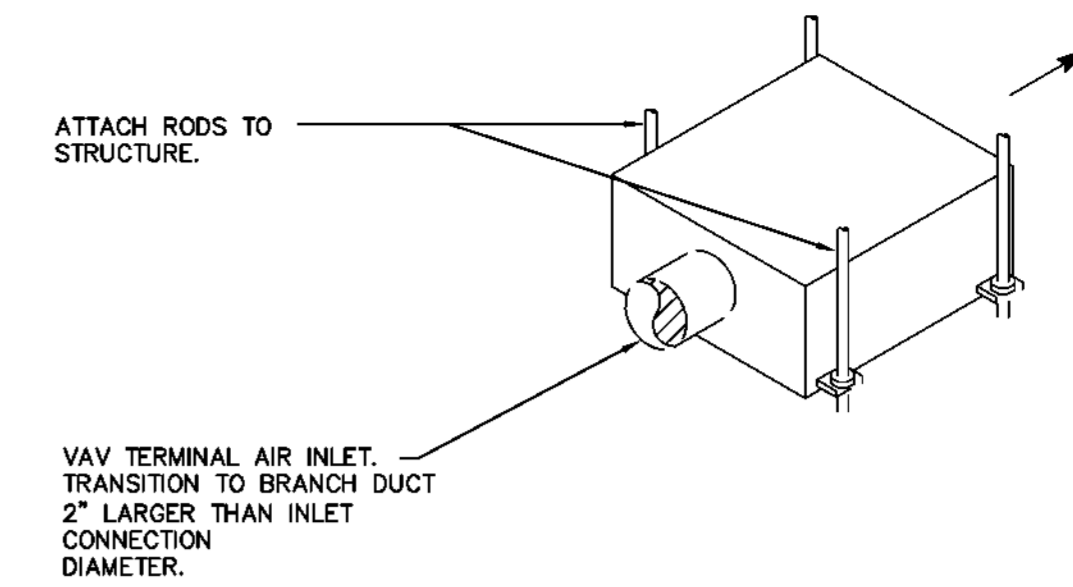
NOTE:
FOR DUCTWORK OVER 60" WIDE
W/SPACING @5'-0" O.C.

DUCTWORK SUPPORT DETAIL SCALE: NONE 1



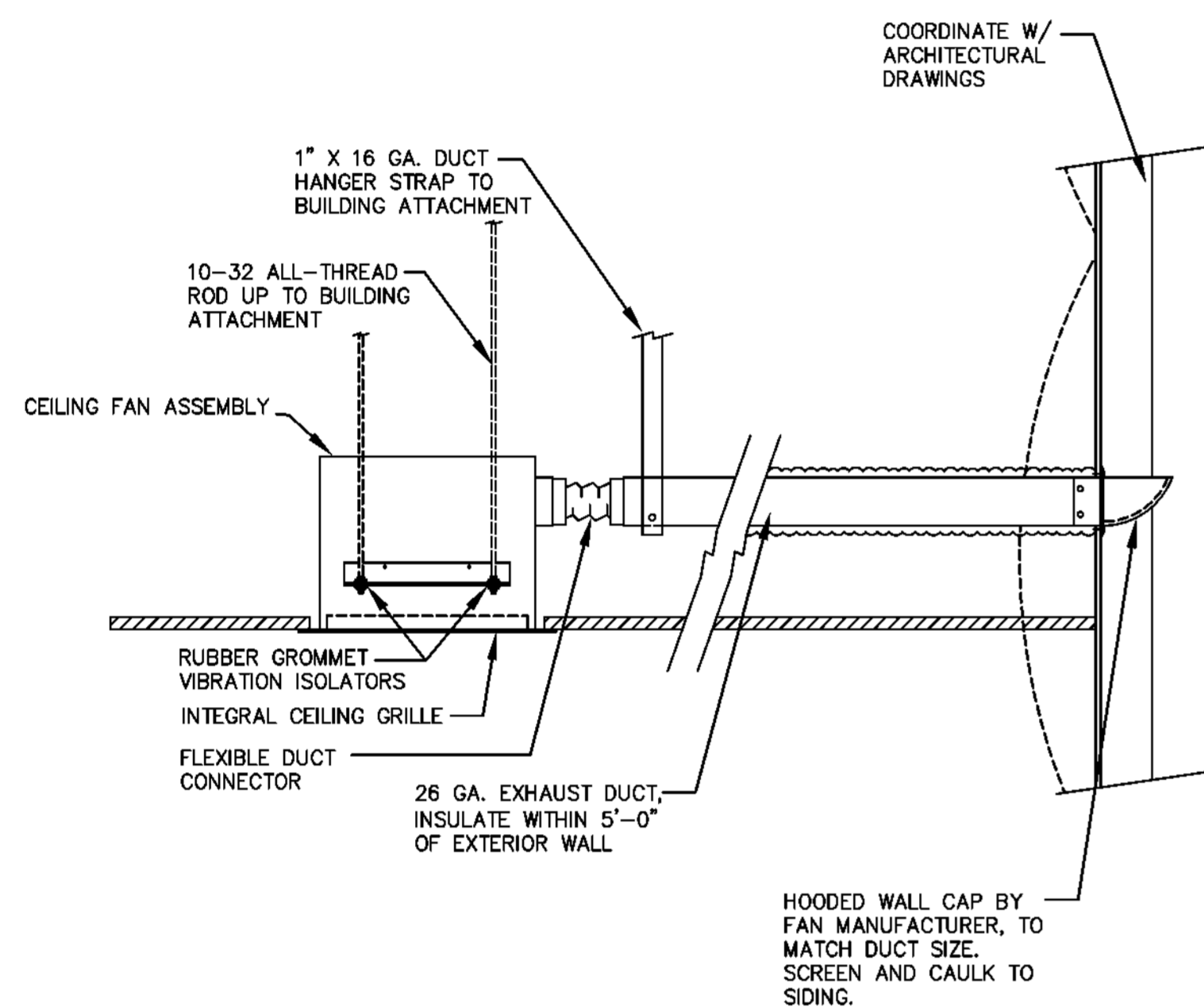
NOTES
1. FLEX DUCT ONLY ALLOWED OVER CONCEALED
CEILING SPACES IN OFFICES. ALL EXPOSED DUCT
TO BE INTERNALLY LINED.

RUNOUT CONNECTION DETAIL SCALE: NONE 2



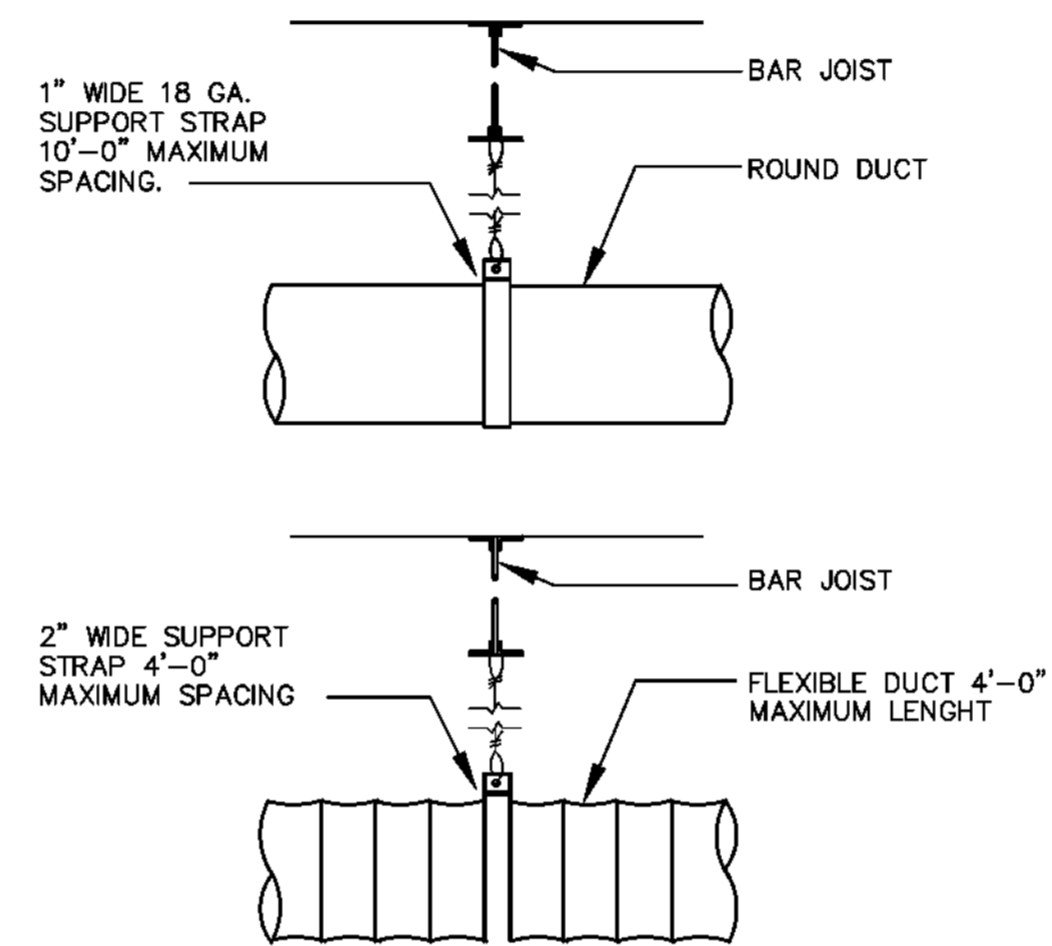
NOTES
1. MINIMUM STRAIGHT DUCT REQUIRED BEFORE THE
VAV SHALL BE 3 DUCT DIAMETERS.
2. MAXIMUM STRAIGHT DUCT REQUIRED AFTER THE
VAV SHALL BE 2 DUCT DIAMETERS.

TYPICAL VAV TERMINAL UNIT SCALE: NONE 3

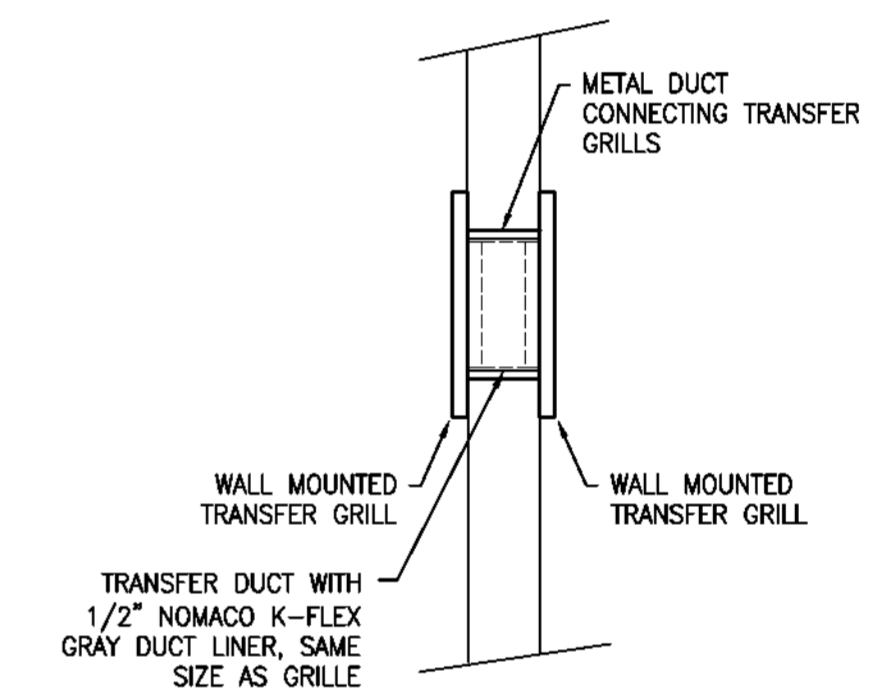


HOODED WALL CAP BY FAN MANUFACTURER, TO MATCH DUCT SIZE. SCREEN AND CAULK TO SIDING.

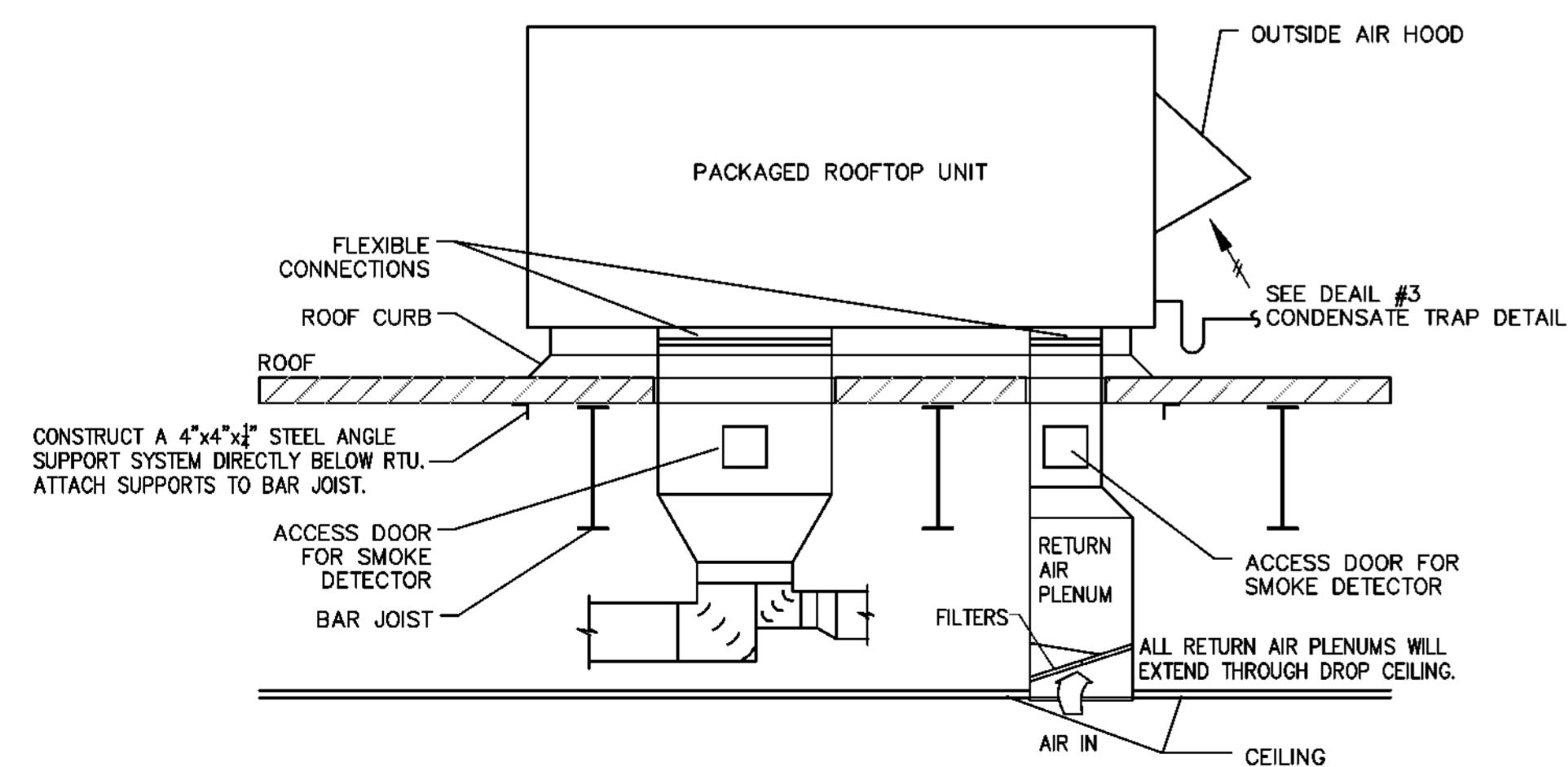
CEILING FAN WITH WALL CAP DETAIL SCALE: NONE 4



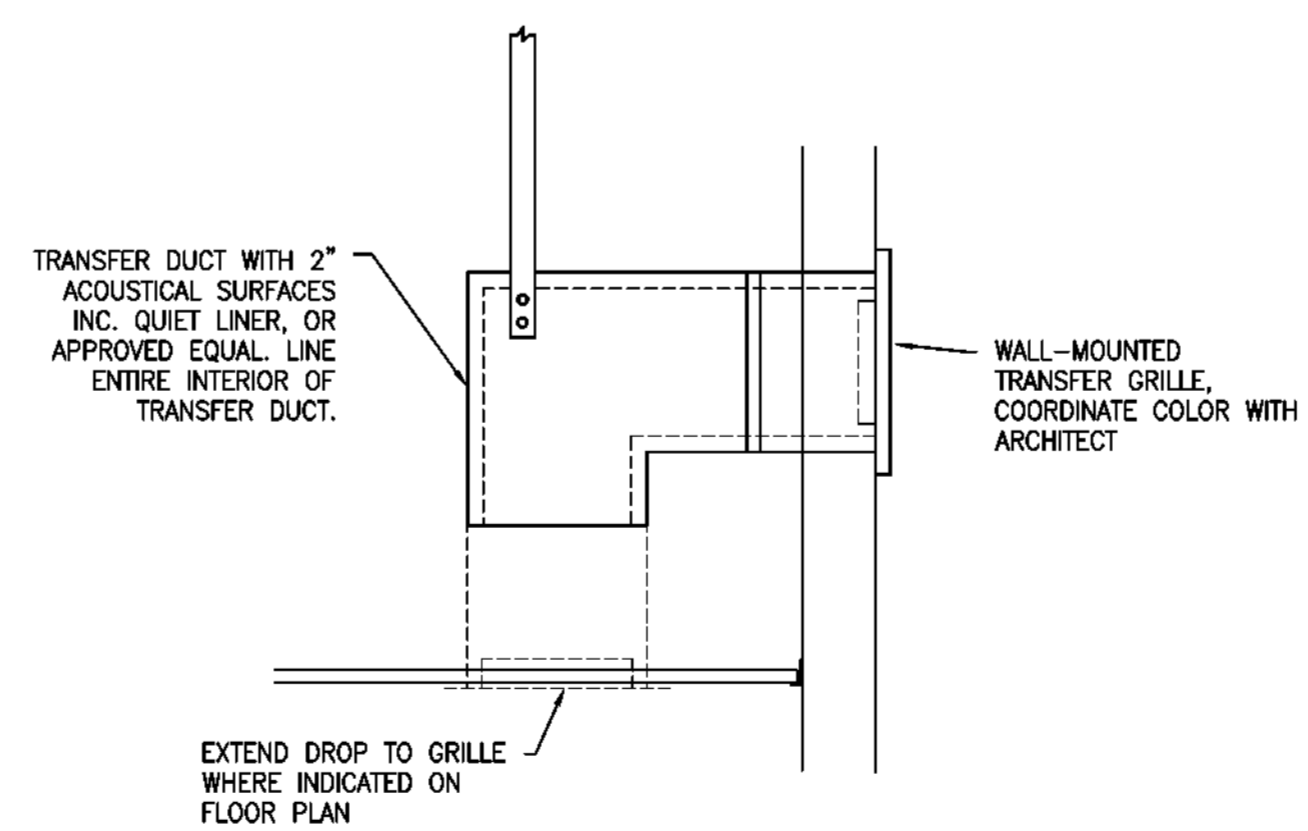
DUCTO SUPPORT DETAIL SCALE: NONE 5



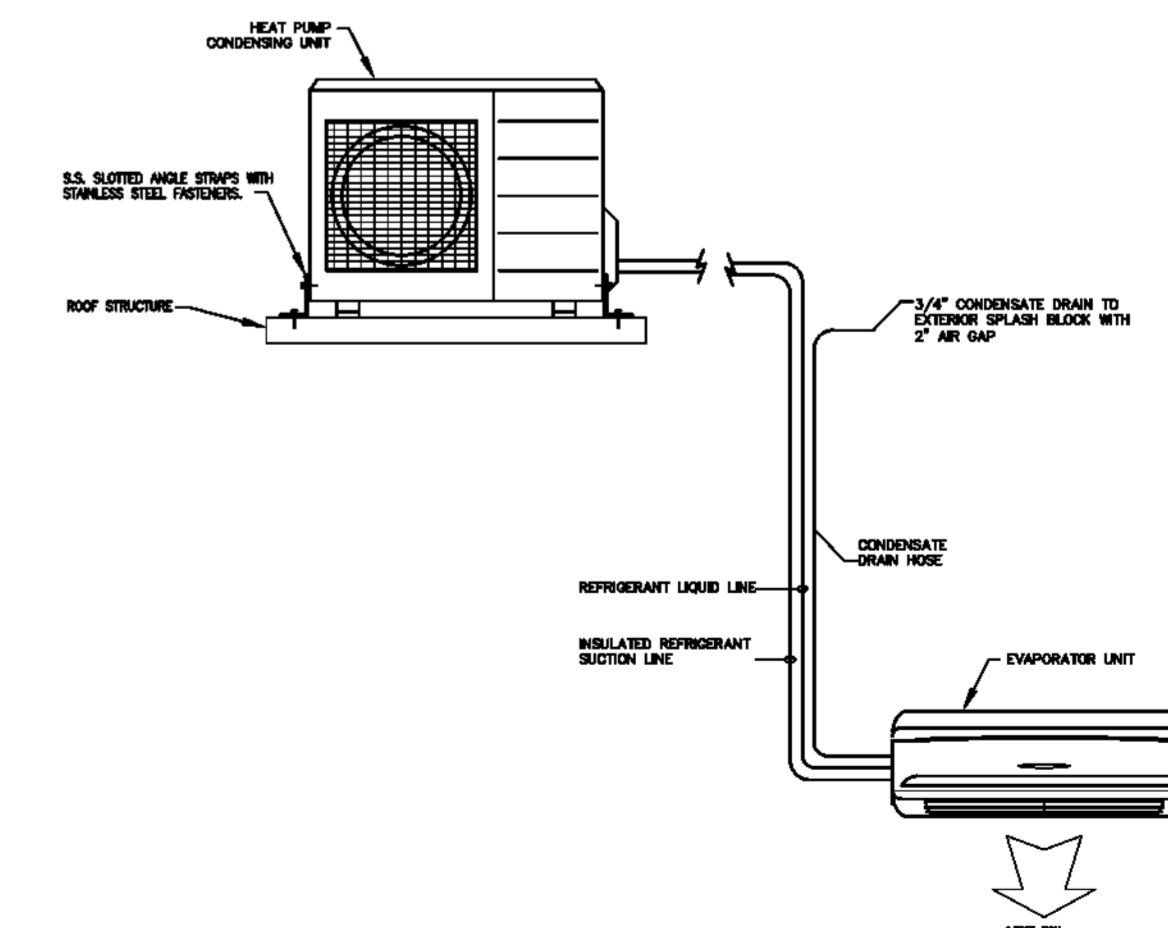
TRANSFER GRILLE DETAIL SCALE: NONE 6



ROOFTOP PACKAGE UNIT DETAIL SCALE: NONE 7



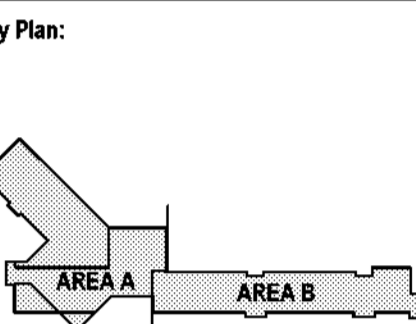
TRANSFER GRILLE DETAIL SCALE: NONE 8



DUCTLESS SPLIT SYSTEM DETAIL SCALE: NONE 9

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Date: 10-26-23
Revisions:

STATE OF LOUISIANA
JOHN T. WADE
REGISTERED PROFESSIONAL
MECHANICAL ENGINEER
10/20/2023

Professional Seal
Scale: (not to scale)
SM Description:
Mechanical Detail Sheet

North **M2.00**

PLUMBING GENERAL NOTES:

SCOPE: THE SCOPE OF THE WORK IS GENERALLY INDICATED BY THE DRAWINGS AND SUMMARIZED BY THIS SCOPE OF WORK. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS OF THE INSTALLATION OF PLUMBING WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL CONDITIONS AND REQUIREMENTS FOR THE INSTALLATION OF THE WORK.

CODES & STANDARDS: BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.

PLUMBING CODE COMPLIANCE: COMPLY WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL PLUMBING CODE AND ALL LOCAL ORDINANCES IN THE PERFORMANCE OF PLUMBING WORK REQUIRED FOR THIS PROJECT.

COORDINATION: COORDINATE THE PLUMBING WORK WITH THE WORK OF THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. OBTAIN INFORMATION REGARDING THE ROUGH-IN AND FINAL CONNECTION REQUIREMENTS FOR EQUIPMENT TO BE PROVIDED BY THE OWNER OR OTHER CONTRACTORS PRIOR TO COMMENCING WORK.

CUTTING & PATCHING: PROVIDE LABOR, EQUIPMENT AND SPECIAL SERVICES NECESSARY TO CREATE OPENING NECESSARY FOR THE PASSAGE OF PIPING AND OTHER PLUMBING WORK. APPLY A ROUGH PATCH TO CLOSE OFF UNUSED PORTIONS OF OPENINGS USING MATERIALS THAT ARE SUBSTANTIALLY SIMILAR TO THAT OF THE ADJACENT STRUCTURE. FINAL PATCH AND FINISHES WILL BE APPLIED BY THE GENERAL CONTRACTOR.

MATERIALS, EQUIPMENT, AND SUBMITTALS: PROVIDE MATERIALS AND EQUIPMENT OF THE TYPE SIZE, CAPACITY, AND QUANTITY INDICATED BY THESE DOCUMENTS, WHERE MATERIAL SPECIFICATIONS ARE NOT INDICATED, PROVIDE MATERIALS THAT COMPLY WITH THE HIGHEST QUALITY INDUSTRY STANDARD. IF NO SUCH STANDARD EXISTS, CONTACT THE ARCHITECT/ENGINEER TO ASCERTAIN THE APPROPRIATE SPECIFICATION.

SUBSTITUTIONS: THE MANUFACTURER AND MODEL OF EQUIPMENT ARE INDICATED ONLY TO ESTABLISH A BASIS OF DESIGN. SUBMITTALS FOR EQUIPMENT OF OTHER MANUFACTURERS WILL BE CONSIDERED IF SPATIAL AND PERFORMANCE REQUIREMENTS ARE MET. BIDDERS MAY REQUEST "PRIOR REVIEW" FROM THE ENGINEER UP TO 3 DAYS PRIOR TO THE BID DATE TO ENSURE THE ACCEPTABILITY OF PROPOSED SUBSTITUTIONS.

GAS PIPING: PROVIDE GAS PIPING SYSTEMS IN ACCORDANCE WITH NFPA STD. 54, USING SCHEDULE 40 BLACK PIPE (ASTM A-53/120). PROVIDE MALLEABLE IRON THREADED FITTING UP TO 2" PIPE SIZE AND WROUGHT STEEL FITTINGS 2½" PIPE SIZE AND OVER. PROVIDE "DURATHANE" ASTM D-2513 THERMOPLASTIC GAS PRESSURE PIPE FOR UNDERGROUND DISTRIBUTION. PROVIDE APPROPRIATE SUPPORTS AND ANCHORS, SQUARE HEAD GAS COCKS, AND PRESSURE REGULATORS WHERE INDICATED OR NECESSARY. EXTEND THE VENT FROM ALL PRESSURE REGULATORS TO OUTSIDE THE BUILDING, INDIVIDUALLY AND AT THE FULL SIZE OF THE REGULATOR VENT CONNECTION SIZE.

GAS VENTING: PROVIDE GAS VENTING SYSTEMS IN ACCORDANCE WITH NFPA STD. 54. GENERALLY PROVIDE: METALBESTOS "DF", OR EQUAL, TYPE B GAS VENT PIPE, FITTINGS, AND SPECIALTIES FOR ATMOSPHERIC BURNERS; METALBESTOS "PS", OR EQUAL, POSITIVE PRESSURE GAS VENT PIPE, FITTINGS, AND SPECIALTIES FOR POWER BURNER SYSTEMS. WHERE THE MANUFACTURER OF GAS-BURNING APPLIANCES RECOMMENDS THE USE OF MATERIALS OTHER THAN THOSE SPECIFIED HEREIN, THE CONTRACTOR MAY IMPLEMENT SUCH RECOMMENDATIONS IF THE MATERIALS AND DESIGN ARE SUITABLE TO THE APPLICATION AND COMPLY WITH BUILDING CODE REQUIREMENTS.

WATER DISTRIBUTION PIPING: PROVIDE DOMESTIC COLD WATER, HOT WATER, HOT WATER RETURN AND OTHER INDICATED WATER DISTRIBUTION PIPING SYSTEMS OF TYPE, SIZE, QUANTITY, AND CAPACITY INDICATED ON THE DRAWINGS, OF MATERIALS INDICATED IN THE PLUMBING MATERIALS TABLE. PROVIDE HANGERS, ANCHORS, CLAMPS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.

DRAINAGE PIPING: PROVIDE DRAIN, WASTE, VENT AND OTHER INDICATED DRAINAGE PIPING SYSTEMS OF TYPE, SIZE, QUANTITY, AND CAPACITY INDICATED ON THE DRAWINGS, OF MATERIALS INDICATED IN THE PLUMBING MATERIALS TABLE. PROVIDE HANGERS, ANCHORS, CLAMPS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.

UTILITY TAPS: THE PLUMBING CONTRACTOR SHALL COORDINATE SEWER AND WATER TAPS WITH THE LOCAL UTILITY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY TAP FEES.

PIPING INSULATION: PROVIDE 1" THICK FIBERGLASS PIPE INSULATION WITH ALL-SERVICE JACKET (ASTM C-547, C-921, TYPE I or II AS APPROPRIATE FOR TEMPERATURE) ON ALL COLD WATER, HOT WATER, HOT RETURN AND COLD DRAINAGE PIPING AS WELL AS ROOF DRAIN LEADERS TO 5'-0" FROM ROOF DRAIN. PROVIDE PRESSURE SENSITIVE TAPE, MASTIC, OR OTHER MATERIALS AS MAY BE REQUIRED TO MAINTAIN A CONTINUOUS VAPOR BARRIER THROUGHOUT THE SYSTEM. PROVIDE PRE-MOLDED PVC COVERS AT ALL FITTINGS. JACKETS AND VAPOR BARRIER MATERIALS MUST MEET LOCAL ORDINANCE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED RATINGS. (SEE FLOOR PLANS FOR INSULATION REQUIREMENTS AT SPECIAL SYSTEMS.)

INSTRUMENTATION: PROVIDE THERMOMETERS, THERMOWELLS, PRESSURE GAUGES, FLOW INDICATORS, CALIBRATED BALANCING VALVES, P&T PLUGS, AND OTHER INSTRUMENTATION INDICATED ON THE DRAWINGS. IN THE ABSENCE OF SUCH INDICATION, PROVIDE, AT MINIMUM, THERMOWELLS AND THERMOMETERS AT EACH ITEM OF HEAT TRANSFER EQUIPMENT (WATER HEATER, WATER CHILLER, HOT WATER GENERATOR, ETC.) AND PRESSURE GAUGES WITH GAUGE COCKS AND SNUBBERS, AT ITEM OF HEAT TRANSFER EQUIPMENT AND EACH PRIME MOVER (PUMP, ETC.).

IDENTIFICATION: PROVIDE MECHANICAL SYSTEMS IDENTIFICATION TO INDICATE THE TAG, TYPE, FLOW, TEMPERATURE RANGE, CAPACITY, ETC. OF EACH ITEM OF EQUIPMENT AND ALL CONVEYANCES (PIPING SYSTEMS). PROVIDE ENGRAVED PLASTIC LAMINATE PLATES FOR EQUIPMENT, "SNAP-ON" PIPE MARKERS FOR PIPING, AND ADHESIVE BACKED PLASTICIZED MARKERS FOR DUCTWORK. PROVIDE ENGRAVED PLASTIC LAMINATE VALVE TAGS AT EACH VALVE AND A VALVE TAG SCHEDULE FRAMED UNDER GLASS.

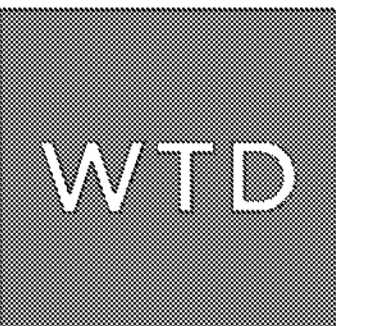
CONTROLS: PROVIDE ALL CONTROL DEVICES, CONDUIT, CONDUCTORS, AND ACCESSORIES REQUIRED TO FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM OF PLUMBING EQUIPMENT CONTROLS TO ACCOMPLISH THE INDICATED SEQUENCE OF OPERATION.

TEST & BALANCE: TEST, BALANCE, AND ADJUST ALL WATER FLOW QUANTITIES TO WITHIN 10% OF THOSE INDICATED ON DRAWINGS. PROVIDE ADDITIONAL DRIVES, MOTORS OR OTHER DEVICES AND ACCESSORIES AS MAY BE REQUIRED TO ADJUST FLOW QUANTITIES AS REQUIRED. SUBMIT THREE COPIES OF THE FINAL REPORT TO THE ARCHITECT WITHIN 10 DAYS OF THE COMPLETION OF BALANCING WORK.

CONTRACT CLOSEOUT: PROVIDE EVIDENCE THAT ALL CONTRACTUAL OBLIGATIONS HAVE BEEN MET, INCLUDING, BUT NOT NECESSARILY LIMITED TO, PROVIDING "AS-BUILT" DRAWINGS, SYSTEM COMMISSIONING REPORTS, OPERATING AND MAINTENANCE MANUALS, TRAINING OF PERSONNEL, FULLY EXECUTED PUNCHLIST, WARRANTIES, EXTENDED WARRANTIES, AND OTHER DOCUMENTS THAT MAY BE PERTINENT TO THE PLUMBING PORTION OF THE PROJECT.

WARRANTY: THE CONTRACTOR SHALL WARRANT THE WORK PROVIDED AS PART OF THIS PROJECT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE COMMISSIONING ACCEPTANCE DATE.

PLUMBING FIXTURE SCHEDULE													
TAG	TYPE	MOUNTING	RIM HT.	MFR.	MODEL NO.	MATERIAL	FINISH	CW	HW	TRAP	DRAIN	VENT	TRIM / REMARKS
WATER CLOSETS													
WC-1	FLUSH VALVE WATER CLOSET	WALL	15"	KOHLER	K-4325 "KINGSTON"	VITREOUS CHINA	WHITE	1"	-	3"	4"	2"	K-4731 SEAT, K-10956 1.28 GPF AUTOMATIC FLUSH VALVE, JOSAM SERIES 12000 ADJUSTABLE CARRIER INSTALLED TO MEET DESIGN REQUIREMENTS
WC-2	ADA FLUSH VALVE WATER CLOSET	FLOOR	16 5/8"	KOHLER	K-96057 "HIGHCLIFF"	VITREOUS CHINA	WHITE	1"	-	3"	4"	2"	K-4731 SEAT, K-10956 1.28 GPF AUTOMATIC FLUSH VALVE
LAVATORIES													
L-1	ADA LAVATORY	WALL HUNG	34"	KOHLER	K-1722 "CHESAPEAKE"	VITREOUS CHINA	WHITE	3/8"	1/2"	1½"	1½"	1½"	K-7805-P SUPPLIES, K-7131-A OFFSET DRAIN, K-8998 P-TRAP, K-13460 FAUCET, K-7129-A GRID DRAIN, JOSAM #17100 FLOOR MOUNT CARRIER
L-2	ADA LAVATORY	DROP-IN	SEE ARCH. DWGS.	KOHLER	K-2196-4 "PENNINGTON"	VITREOUS CHINA	WHITE	3/8"	1/2"	1½"	1½"	1½"	K-7605-P SUPPLIES, K-8998 P-TRAP, K-15241-ARA FAUCET & GRID DRAIN
L-3	ADA LAVATORY	WALL HUNG	33-1/2"	BRADLEY	LVQD3-0006 "VERGE"	NATURAL QUARTZ	SEE ARCH. DWGS.	3/8"	1/2"	1½"	1½"	1½"	WASHBAR, NAVGATOR SUPPLY & GRID DRAIN, STUD WALL SUPPORT BRACKET
URINAL													
UR-1	BLOWOUT URINAL	WALL HUNG	24"	KOHLER	K-4972-ET "STANWELL"	VITREOUS CHINA	WHITE	3/4"	-	-	2"	1½"	K-7542-CP 1.0 GPF AUTOMATIC FLUSH VALVE, JOSAM #17550-UR FLOOR MOUNT CARRIER
UR-2	ADA BLOWOUT URINAL	WALL HUNG	17"	KOHLER	K-5016-ET-0 "DEXTER"	VITREOUS CHINA	WHITE	3/4"	-	-	2"	1½"	K-7542-CP 1.0 GPF AUTOMATIC FLUSH VALVE, JOSAM #17550-UR FLOOR MOUNT CARRIER
SHOWERS AND BATHTUBS													
SH-1	SHOWER UNIT	-	-	-	-	-	-	1/2"	1/2"	2"	2"	1½"	CUSTOM TILE SHOWER, PROVIDE SYMMONS 1-100 SAFETY MIX PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 2.5 GPM SHOWER HEAD WITH ARM AND FLANGE PROVIDED.
SH-2	ADA BUILT-UP SHOWER	-	-	-	-	-	-	1/2"	1/2"	2"	2"	1½"	ADA CUSTOM TILE SHOWER, PROVIDE WITH SOAP HOLDER, GRAB BARS AND FOLDING SEAT. SYMMONS 1-117-FS, SAFETY MIX PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 2.5 GPM SHOWER HEAD WITH WALL HAND SHOWER, FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION, FLANGE AND WALL HOOK FOR HAND SHOWER.
MOP SINK													
MS-1	MOP SINK	24" X 24" CORNER SINK FLOOR MOUNT	12"	FIAT PRODUCTS	TSBC6010	TERRAZZO	GREY	1/2"	1/2"	3"	3"	1½"	T&S BRASS #B-0695-ST FAUCET w/ VB @ 90° AFF, 830AA MOP SERVICE BASIN FITTING, 832AA HOSE & HOSE BRACKET, 833AA SILICONE SEALANT, MSG WALL GUARDS.
DRINKING FOUNTAINS AND WATER COOLERS													
EW-1	ADA WATER COOLER - DBL	WALL	33.5" / 39.5"	ELKAY	EMABFTLBC	STEEL	GRAY BEIGE	2@ 3/8"	-	2@ 1½"	2@ 1½"	2@ 1½"	DUAL HEIGHT UNIT PROVIDE WITH SERVICE STOP, 1-1/4" TRAP. ELECTRICAL: 120V/4A
SINKS													
KS-1	1-BOWL KITCHEN SINK	DROP-IN	SEE ARCH. DWGS.	ELKAY	LR-2522	#302 STAINLESS STEEL	SATIN	1/2"	1/2"	1½"	1½"	1½"	1-HOLE DRILLED, LK-1500CR FAUCET w/SPRAY, LK-35 BASKET STRAINER
KS-2	2-BOWL KITCHEN SINK	DROP-IN	SEE ARCH. DWGS.	ELKAY	LGR-3322	#302 STAINLESS STEEL	SATIN	1/2"	1/2"	1½"	1½"	1½"	LK-6000 FAUCET w/SPRAY, (2) LK-35 BASKET STRAINERS
UTILITY BOXES AND HOSE CONNECTIONS													
UB-1	ICE MAKER UTILITY BOX	WALL	1'-6"	GUY GRAY	BIM875	STEEL	FIELD PAINT	1/2"	-	-	-	-	MOUNTING HEIGHT MAY BE ADJUSTED TO SUIT FIELD CONDITIONS
FPWH	FREEZEPROOF WALL HYDRANT	WALL	-	JOSAM	71300	BRONZE	NIKALOY SATIN	3/4"	-	-	-	-	INTEGRAL VACUUM BREAKER, SPARE CONTROL KEY
DRAINS AND DRAINAGE FIXTURES													
RD-1	ROOF DRAIN	ROOF	-	JOSAM	2150n	COATED CAST IRON	NIKALOY SATIN	-	-	-	n"	-	n = DOWNSPOUT SIZE, DECK CLAMP, DRAIN RECEIVER, #2620n EXPANSION JOINT
RD-2	OVERFLOW ROOF DRAIN	ROOF	ADJUST. 2"-4"	JOSAM	2150n-AE-16	COATED CAST IRON	NIKALOY SATIN	-	-	-	n"	-	n = DOWNSPOUT SIZE, DECK CLAMP, DRAIN RECEIVER, #2620n EXPANSION JOINT
DN-1	DOWNSPOUT	WALL	-	JR SMITH	1775	STAINLESS STEEL	-	-	-	-	n"	-	n = LEADER SIZE ON PLANS, HINGED COVER
FD-1	FLOOR DRAIN FINISHED AREAS	FLOOR	-	JOSAM	3000n-A	COATED CAST IRON	NIKALOY SATIN	-	-	-	n"	-	6" TOP, ½" TRAP PRIMER TAP
FD-2	FLOOR DRAIN UTILITY AREAS	FLOOR	-	JOSAM	3212n	COATED CAST IRON	NIKALOY SATIN	-	-	-	n"	-	9" TOP, SEDIMENT BUCKET, ½" TRAP PRIMER TAP
FCO	FLOOR CLEANOUT	FLOOR	-	JOSAM	5700(*)	COATED CAST IRON	NIKALOY SATIN	-	-	-	-	-	* SIZE TO PIPE, 3" MIN.
WCO	WALL CLEANOUT	WALL	-	JOSAM	5854(*)	STAINLESS STEEL	POLISHED BRONZE	-	-	-	-	-	* SIZE TO PIPE, 3" MIN.

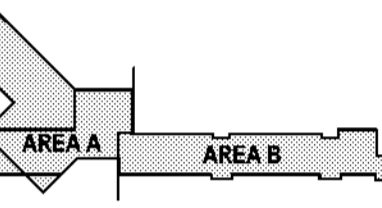


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Key Plan:



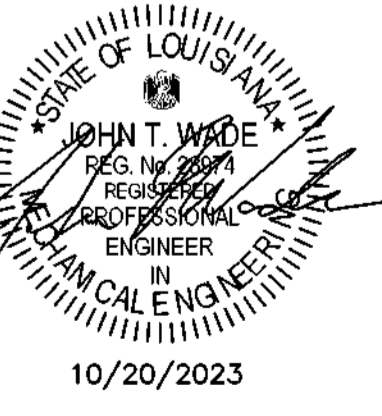
Consultants:



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Date: 10-26-23
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SM Description:
Plumbing Notes Sheet 1 of 2

North

P0.01

NEW WORK		PLUMBING LEGEND	
S	SANITARY	○	PIPE ELBOW UP
Y	VENT	◡	PIPE ELBOW DOWN
UGV	UNDER GRADE VENT	↔	GATE VALVE
CW	DOMESTIC COLD WATER	↔	CHECK VALVE
HW	DOMESTIC HOT WATER	↔	GAS COCK
FCW	FILTERED COLD WATER	↔	FLOOR DRAIN
NG	NATURAL GAS	↔	FLOOR SINK
		○	HUB DRAIN
		○	FLOOR CLEANOUT
		○	EXTERIOR CLEANOUT
		○	WALL CLEANOUT
		○	PLUG CLEANOUT
		○	VENT THROUGH ROOF (INCREASER AS REQUIRED)
		○	HOSE BIBB - 3/4"
		○	FREEZE PROOF WALL HYDRANT - 3/4"

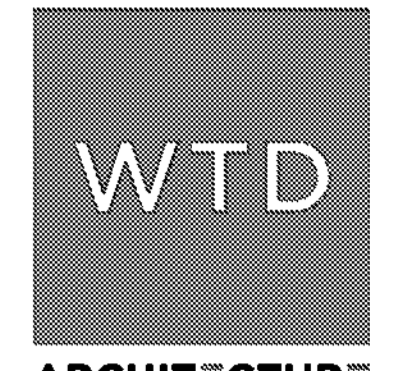
WATER HEATER SCHEDULE								
TAG	TYPE	FUEL	MFR.	MODEL	STORAGE GALLONS	FUEL INPUT	GPH RECOV. @ 75F	ACCESSORIES / REMARKS
WH-1	STORAGE	NATURAL GAS	RHEEM	GHE80SU-130	80	130 MBH	200	ASME T & P VALVE, INSULATION BLANKET, 98% THERMAL EFFICIENCY
WH-2	STORAGE	ELECTRIC	RHEEM	ELD40-TB	40	5kW	24	480v/3, NON-SIMULTANEOUS WIRING, ASME T & P VALVE, INSULATION BLANKET
WH-3	STORAGE	ELECTRIC	RHEEM	ELD30-TB	30	5kW	24	480v/3, NON-SIMULTANEOUS WIRING, ASME T & P VALVE, INSULATION BLANKET
WH-4	STORAGE	ELECTRIC	RHEEM	ELD40-TB	40	5kW	24	480v/3, NON-SIMULTANEOUS WIRING, ASME T & P VALVE, INSULATION BLANKET

WATER SUPPLY SIZING WORKSHEET						
FIXTURE OR GROUP TYPE	OCCUPANCY	CONTROL	W.S.F.U.	QUANTITY	S/T DEMAND	
WATER CLOSET	PUBLIC	FLUSH VALVE	10	29	290	
LAVATORY	PUBLIC	FAUCET	1.5	32	48	
SINK, KITCHEN	PUBLIC	FAUCET	4	3	12	
DRINKING FOUNTAIN	PUBLIC	FAUCET	0.25	6	1.50	
URINAL	PUBLIC	FLUSH VALVE	.25	2	0.50	

PLUMBING PUMPS SCHEDULE									
TAG	MANUFACTURER MODEL No.	TYPE / CONFIGURATION	SERVICE	FLOW GPM	TOTAL HEAD FT./PSI	MOTOR HP/AMPS	PUMP RPM	ELECTRICAL	ACCESSORIES / REMARKS
RP-1	BELL & GOSSETT #NBF-36	CENTRIFUGAL / IN-LINE	HOT WATER CIRCULATION	10.0	25'	270W / 2.3A	2950	120/1/60	ALL BRONZE CONSTRUCTION, LOCATED TO SERVE WH-1
RP-2	BELL & GOSSETT #NBF-36	CENTRIFUGAL / IN-LINE	HOT WATER CIRCULATION	10.0	25'	270W / 2.3A	2950	120/1/60	ALL BRONZE CONSTRUCTION, LOCATED TO SERVE WH-2
RP-3	BELL & GOSSETT #NBF-36	CENTRIFUGAL / IN-LINE	HOT WATER CIRCULATION	10.0	25'	270W / 2.3A	2950	120/1/60	ALL BRONZE CONSTRUCTION, LOCATED TO SERVE WH-3
RP-4	BELL & GOSSETT #NBF-36	CENTRIFUGAL / IN-LINE	HOT WATER CIRCULATION	10.0	25'	270W / 2.3A	2950	120/1/60	ALL BRONZE CONSTRUCTION, LOCATED TO SERVE WH-4

SUM OF W.S.F.U. (TOTAL DEMAND)	352 W.S.F.U.
CONVERT TO G.P.M. (PREDOM. FLUSH TANKS)	127 GPM
DETERMINE BUILDING WATER SERVICE SIZE	3"

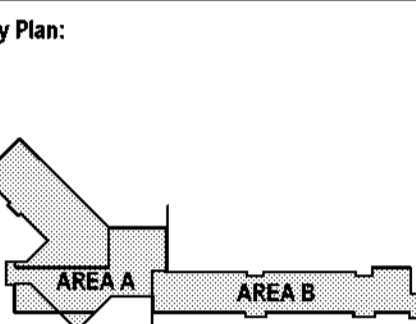
2021 INTERNATIONAL PLUMBING CODE PIPING MATERIALS										
PIPING TYPE	COPPER PIPE ASTM B42, ASTM B302	COPPER TUBE ASTM B75, ASTM B88, ASTM B251, ASTM B306	GALV. STEEL ASTM A53	PEX-AL-PEX PIPE ASTM F1281, ASTM F2282, CAN/CSA B137.10M	PEX TUBE ASTM F876, ASTM F877, CSA B137.5	PVC PLASTIC ASTM D2865, ASTM D2949, ASTM F1488	ABS PLASTIC ASTM D2861, ASTM F828	CAST IRON ASTM A74, CISPI 301, ASTM A888	CONCRETE ASTM C14, ASTM C78	VITRIFIED CLAY ASTM C4, ASTM C700
WATER SERVICE	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
WATER DISTRIBUTION	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
ABOVE GROUND DRAINAGE & VENT	YES	YES	YES	NO	NO	YES	YES			
UNDERGROUND BLDG. DRAINAGE & VENT	NO	YES	NO	NO	NO	YES	YES	YES	NO	NO
BUILDING SEWER	NO	YES	NO	NO	NO	YES	YES	YES	YES	YES
BUILDING STORM SEWER	NO	YES	NO	NO	NO	YES	YES	YES	YES	YES
SUBSOIL DRAIN	NO	NO	NO	NO	NO	ASTM D2729	NO	YES	NO	YES



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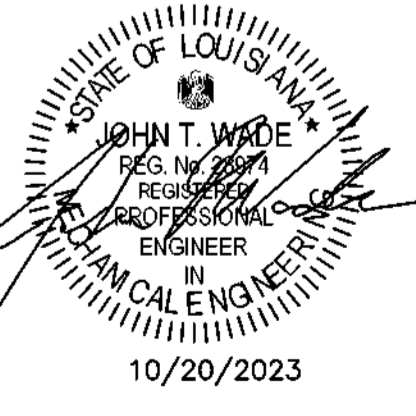
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Plumbing Notes Sheet 2 of 2

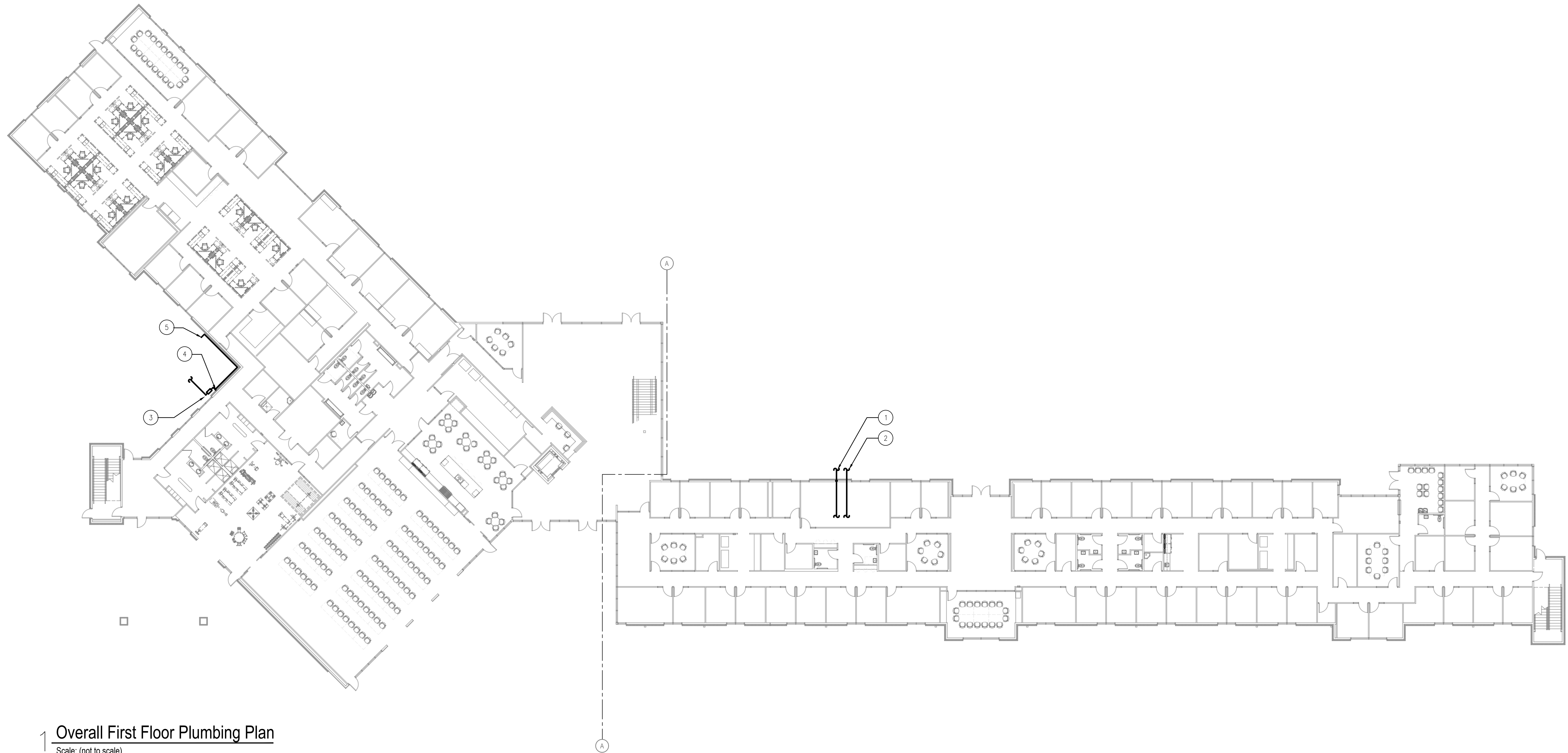
KEYED NOTES:

- ① 3" DOMESTIC WATER SUPPLY TO BE RAN INTO WALL AND UP INTO CEILING SPACE.
- ② 4" SANITARY, OUT OF BUILDING AND TO CIVIL / SITE UTILITIES.
- ③ NEW NATURAL GAS METER. COORDINATE INCOMING LINE WITH CIVIL / SITE UTILITIES.
- ④ 3" NATURAL GAS LINE UP TO ROOF. SUPPORT ALONG BUILDING EXTERIOR. SEE NATURAL GAS RISER FOR MORE INFORMATION.
- ⑤ 3" NATURAL GAS LINE TO GENERATOR SET. PROVIDE FINAL FLEXIBLE CONNECTIONS AND ISOLATION VALVES.

EQUIPMENT	BTUH INPUT
RTU-01 & RTU-02	600,000 EA.
RTU-02, RTU-03 & RTU-06	260,000 EA.
RTU-04 & RTU-07	360,000 EA.
WH-1	125,000
GENERATOR	5,900,000
TOTAL USAGE	8,725,000
APPROX. DISTANCE FROM REGULATOR TO FARTHEST TAKE OFF 550'	
GAS TYPE:	NATURAL GAS

NOTE:
ALL EXPOSED GAS PIPING SHALL BE PAINTED WITH A YELLOW EPOXY PAINT. ALSO, PROVIDE LABELS "GAS" AND "OPERATING PRESSURE". TYPICAL ENTIRE JOB, ALL AREAS, INSIDE AND EXTERIOR.

NOTE:
GAS SERVICE, METER AND REGULATOR BY GAS UTILITY. 2 PSI OUTLET PRESSURE (8,725 CFH). COORDINATE INCOMING GAS PRESSURE WITH UTILITY COMPANY.



1 Overall First Floor Plumbing Plan
Scale: (not to scale)

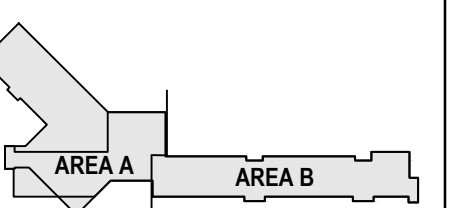


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Key Plan:



Consultants:

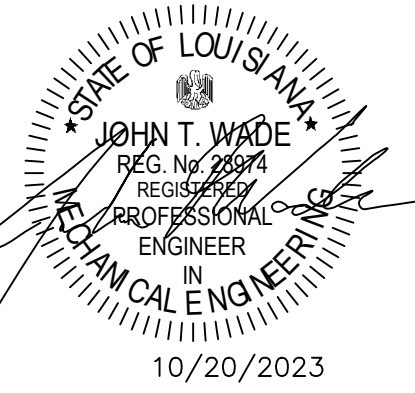


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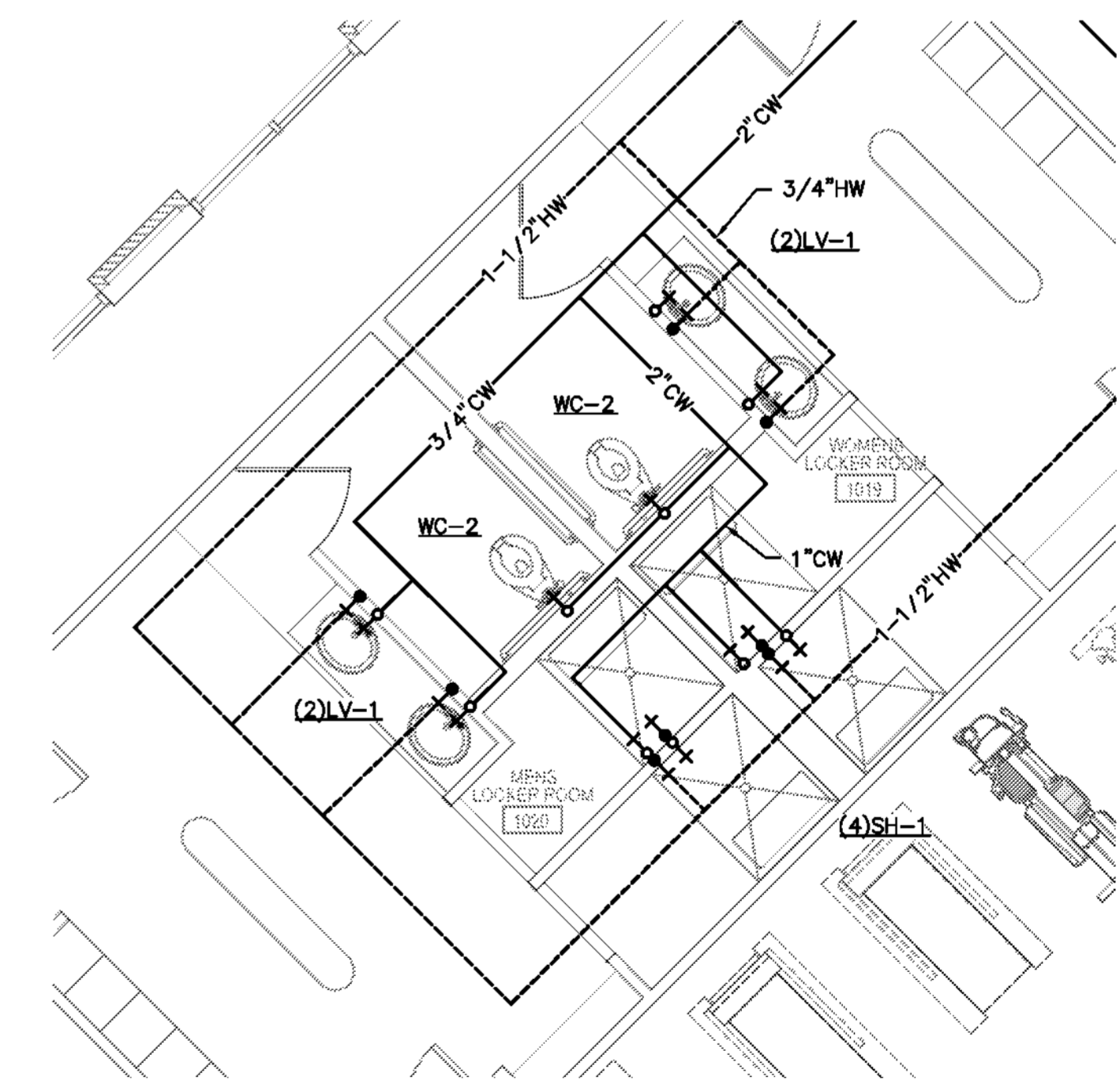
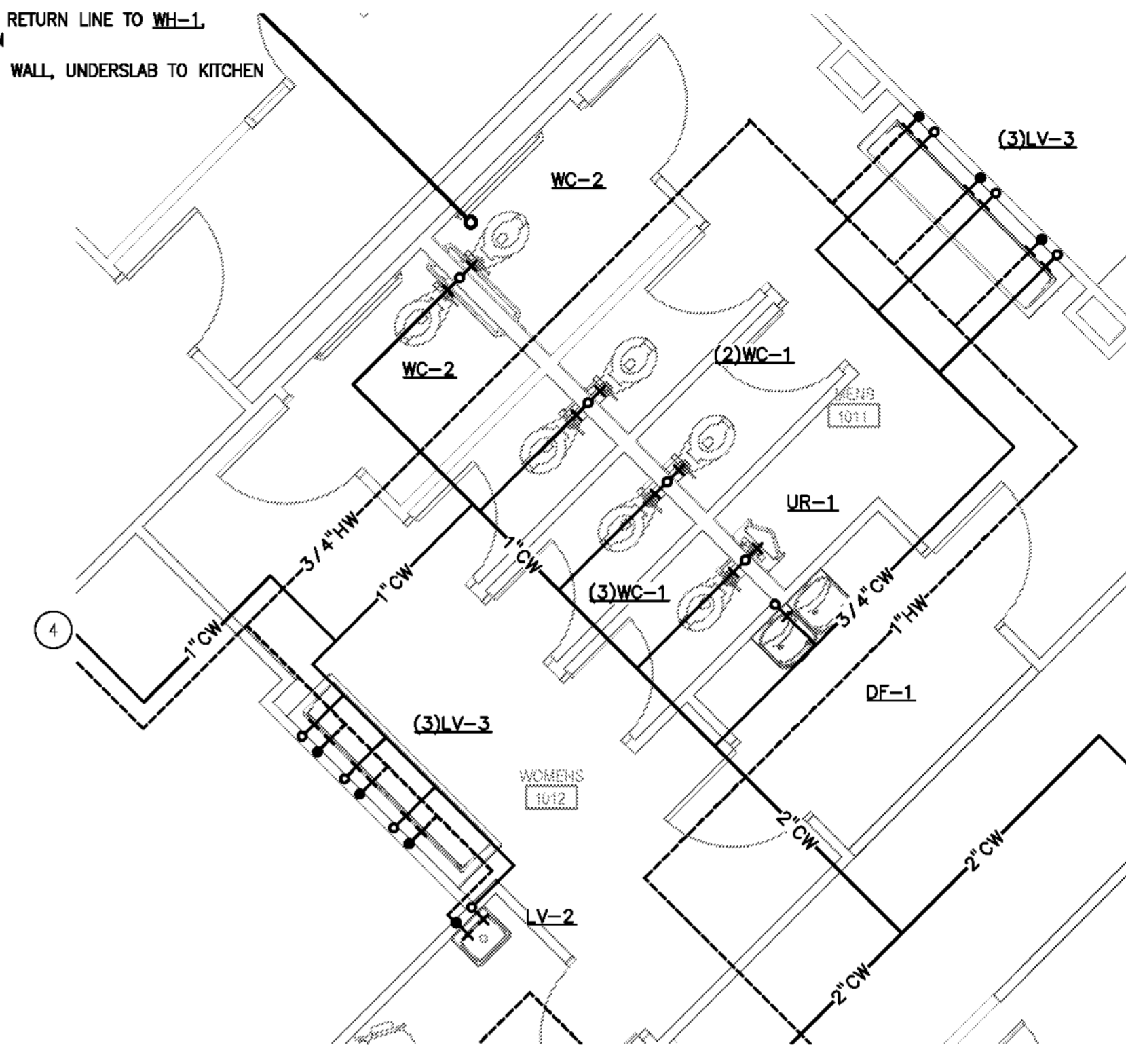
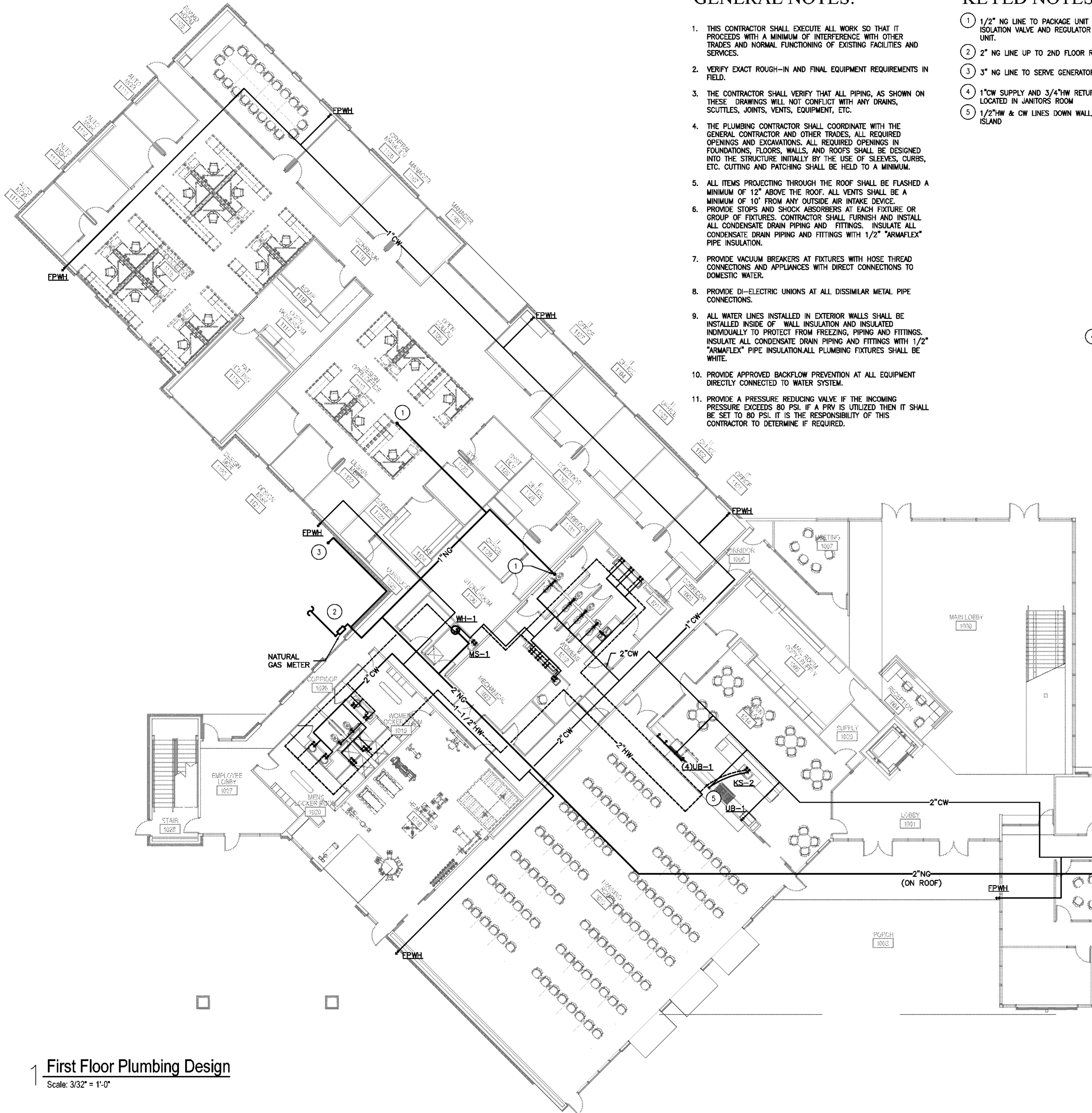
Overall First Floor Plumbing Plan

GENERAL NOTES:

1. THIS CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
2. VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
3. THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES. ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS, AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
5. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10" FROM ANY OUTSIDE AIR INTAKE DEVICE.
6. PROVIDE STOPS AND SHOCK ABSORBERS AT EACH FIXTURE OR GROUP OF FIXTURES. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDENSATE DRAIN PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" "ARMAFLEX" PIPE INSULATION.
7. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
8. PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
9. ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING. PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" "ARMAFLEX" PIPE INSULATION. ALL PLUMBING FIXTURES SHALL BE WHITE.
10. PROVIDE APPROVED BACKFLOW PREVENTION AT ALL EQUIPMENT DIRECTLY CONNECTED TO WATER SYSTEM.
11. PROVIDE A PRESSURE REDUCING VALVE IF THE INCOMING PRESSURE EXCEEDS 80 PSI. IF A PRV IS UTILIZED THEN IT SHALL BE SET TO 80 PSI. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO DETERMINE IF REQUIRED.

KEYED NOTES:

- 1 1/2" NG LINE TO PACKAGE UNIT ON ROOF. PROVIDE ISOLATION VALVE AND REGULATOR PRIOR TO CONNECTION TO UNIT.
- 2 2" NG LINE UP TO 2ND FLOOR ROOF, ROUTED AS SHOWN.
- 3 3" NG LINE TO SERVE GENERATOR
- 4 1" CW SUPPLY AND 3/4" HW RETURN LINE TO WH-1, LOCATED IN JANITORS ROOM
- 5 1/2" HW & CW LINES DOWN WALL, UNDERSLAB TO KITCHEN ISLAND



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Key Plan:
AREA A AREA B

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STATE OF LOUISIANA
JOHN T. WADE
P.E.S. No. 1007
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
10/20/2023

Professional Seal
Scale: 3/32" = 1'-0"
SM Description:
First Floor Plumbing Design
Sheet 1 of 2

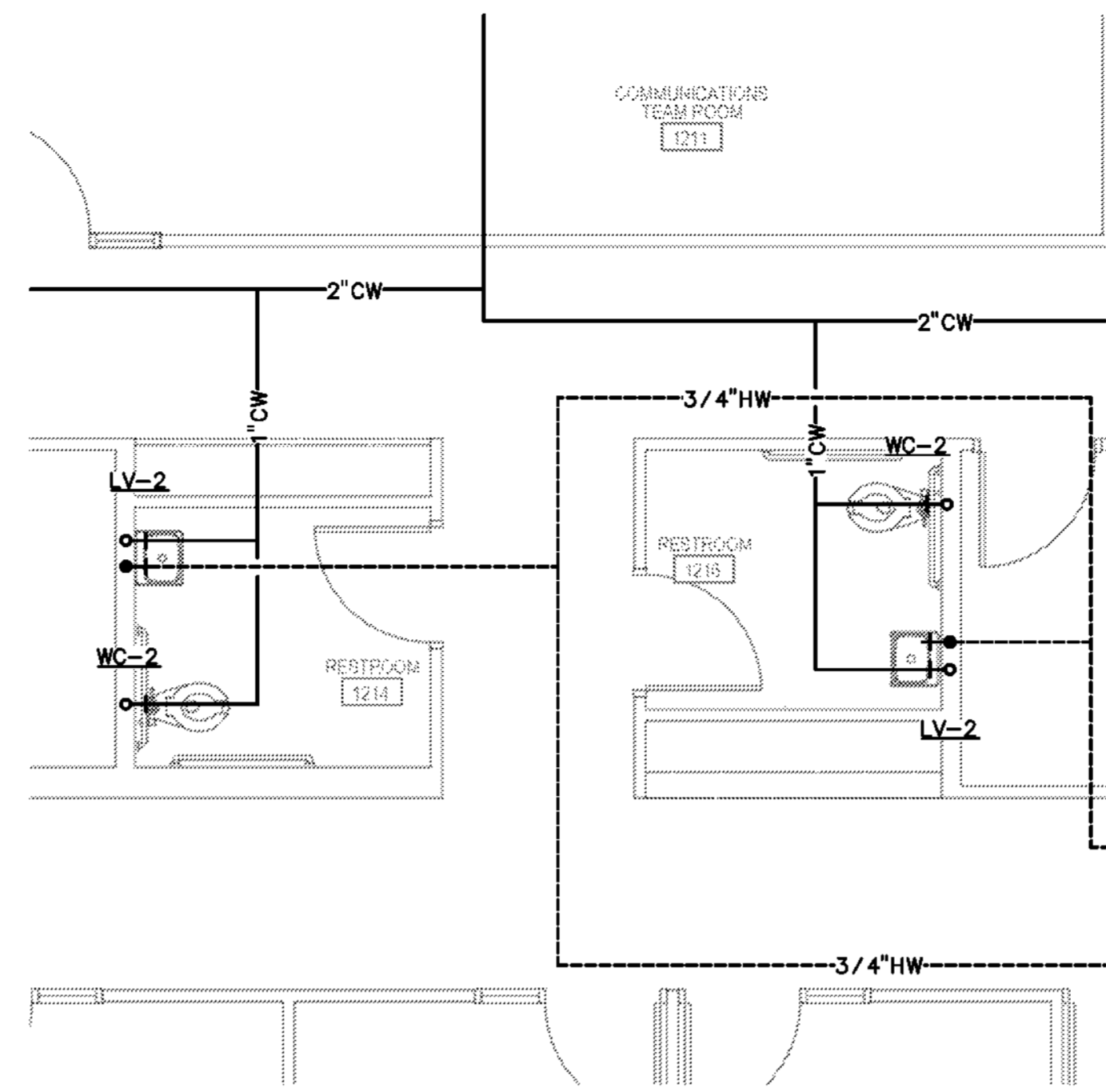
North P1.11

GENERAL NOTES:

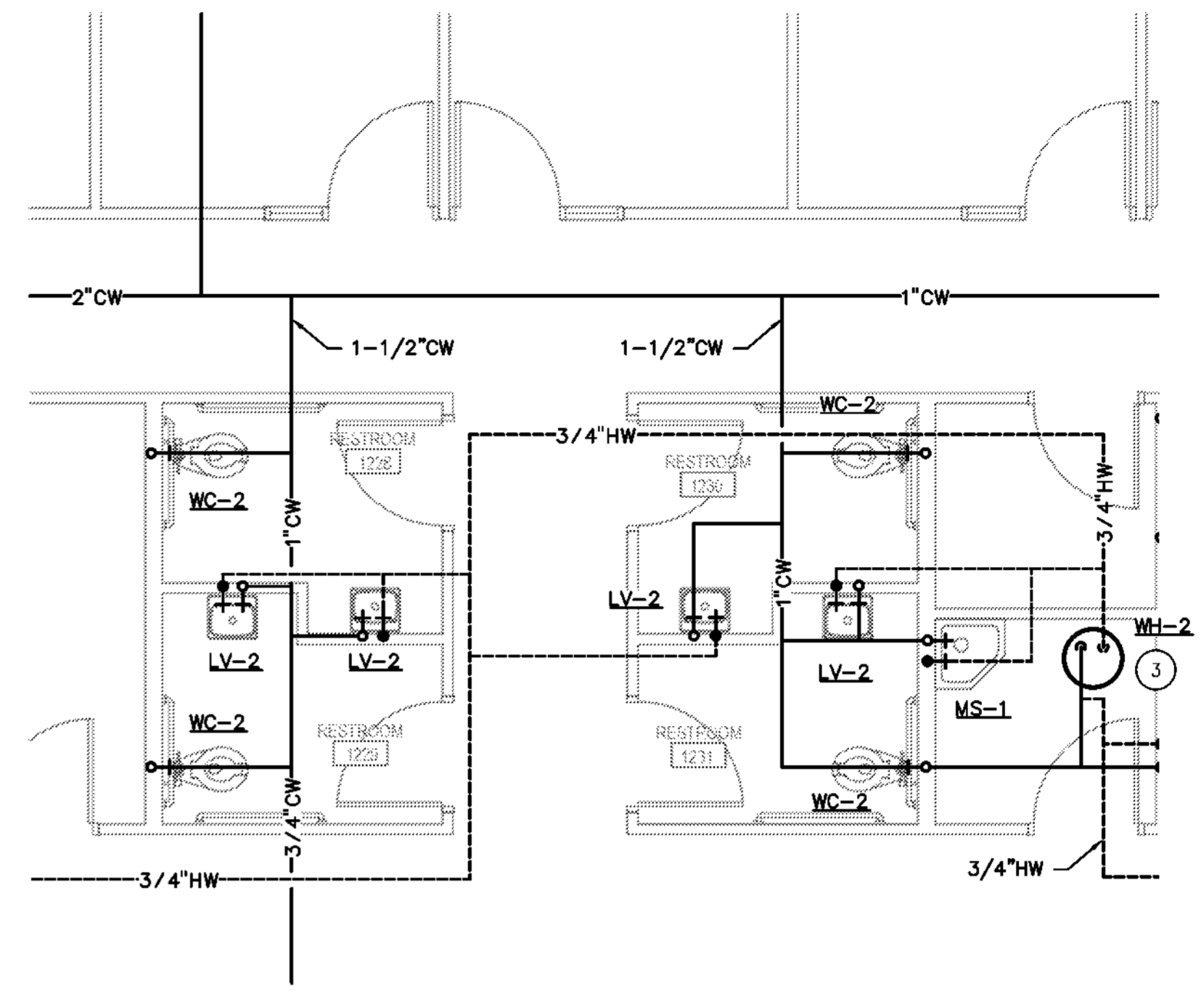
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8. PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
9. ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING. PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" "ARMAFLEX" PIPE INSULATION. ALL PLUMBING FIXTURES SHALL BE WHITE.
10. PROVIDE APPROVED BACKFLOW PREVENTION AT ALL EQUIPMENT DIRECTLY CONNECTED TO WATER SYSTEM.
11. PROVIDE A PRESSURE REDUCING VALVE IF THE INCOMING PRESSURE EXCEEDS 80 PSI. IF A PRV IS UTILIZED THEN IT SHALL BE SET TO 80 PSI. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO DETERMINE IF REQUIRED.

KEYED NOTES:

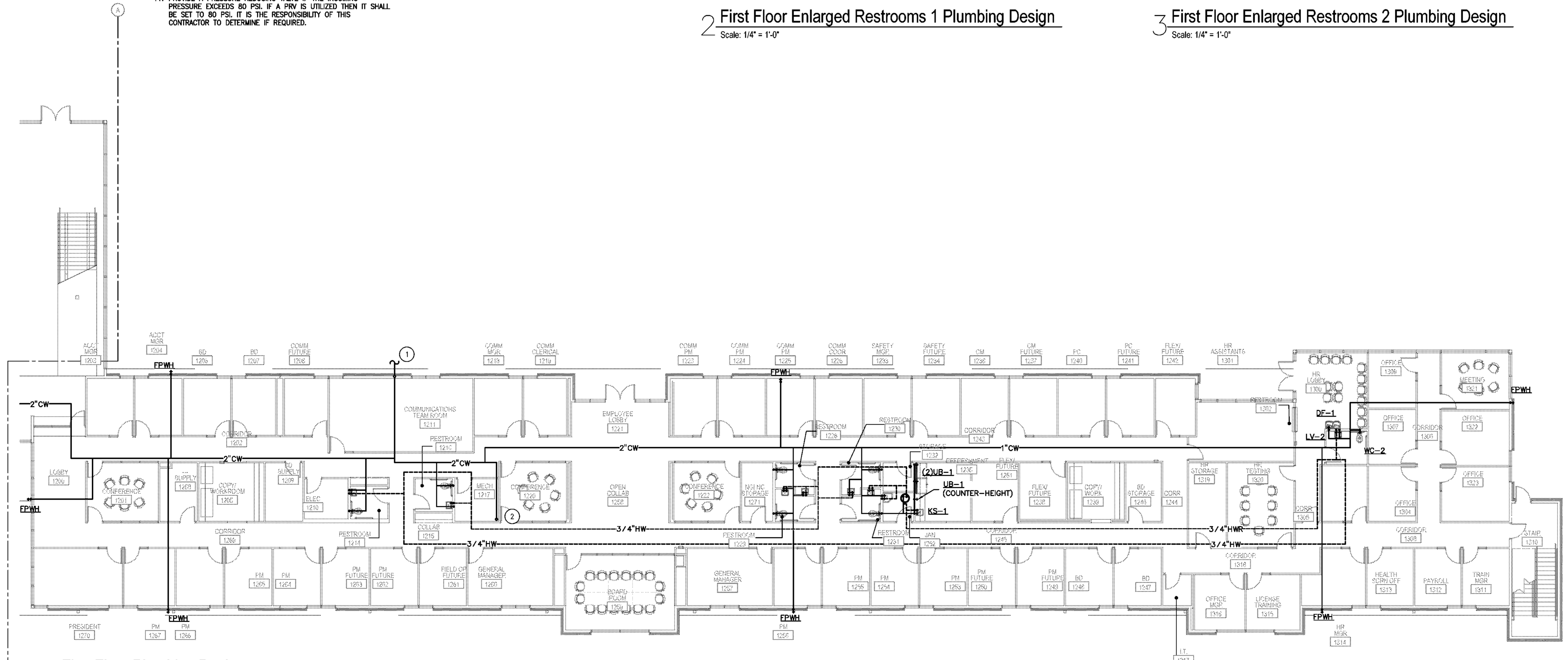
- 1 3" DOMESTIC WATER SUPPLY TO BE RAN INTO WALL AND UP INTO CEILING SPACE.
- 2 2" DOMESTIC WATER SUPPLY UP TO FLOOR ABOVE.
- 3 WATER HEATER TO BE INSTALLED OVER MOP SINK, SHOWN HERE FOR CLARITY.



2 First Floor Enlarged Restrooms 1 Plumbing Design
Scale: 1/4" = 1'-0"



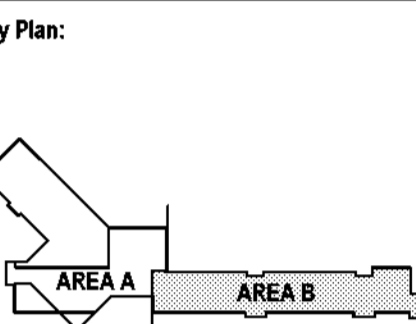
3 First Floor Enlarged Restrooms 2 Plumbing Design
Scale: 1/4" = 1'-0"



1 First Floor Plumbing Design
Scale: 3/32" = 1'-0"

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13820 Airline Highway
Baton Rouge, LA 70817

Phase: Bid Documents
Date: 10-26-23
Revisions:

Professional Seal
Scale: 3/32" = 1'-0"
SM Description:
First Floor Plumbing Design
Sheet 2 of 2

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Scale: 3/32" = 1'-0"
SM Description:
First Floor Plumbing Design
Sheet 2 of 2

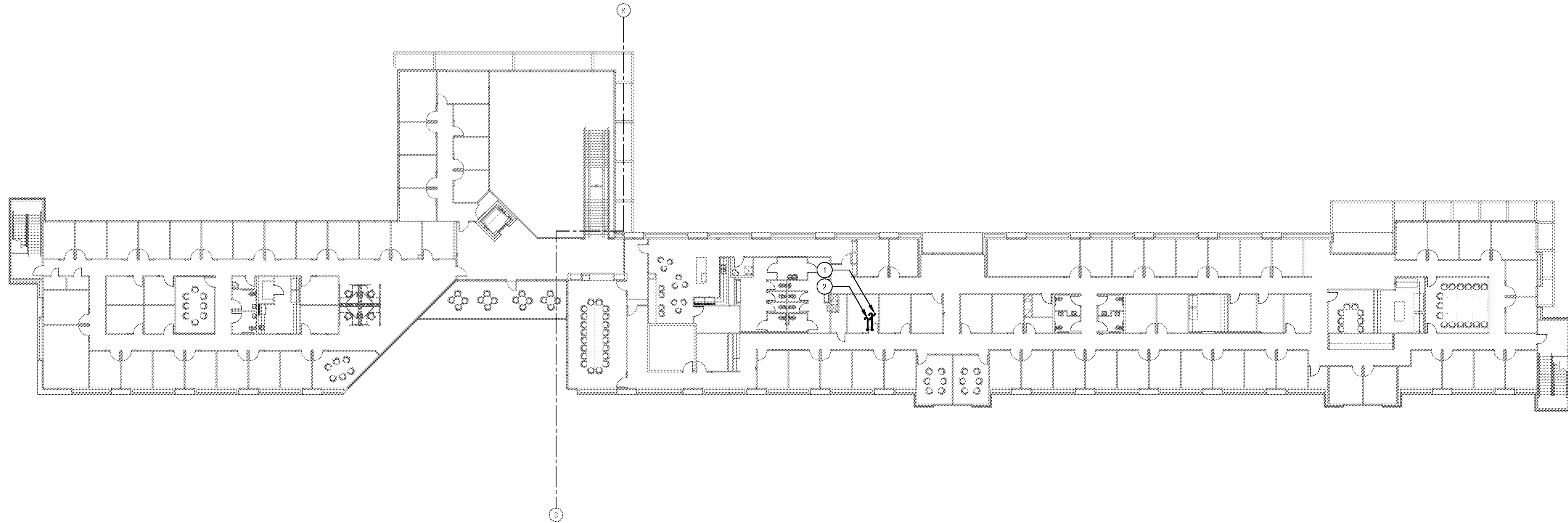
North P1.12

GENERAL NOTES:

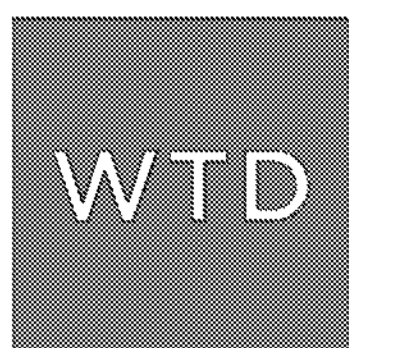
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KEYED NOTES:

- ① DOMESTIC WATER LINE FROM FIRST FLOOR.
- ② 4" SANITARY LINE FROM FIRST FLOOR.



1 Overall Second Floor Plan
Scale: (not to scale)

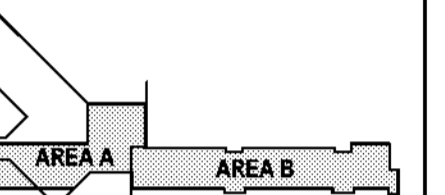


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Key Plan:



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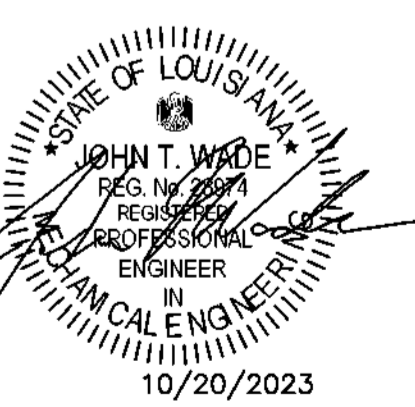
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Professional Seal

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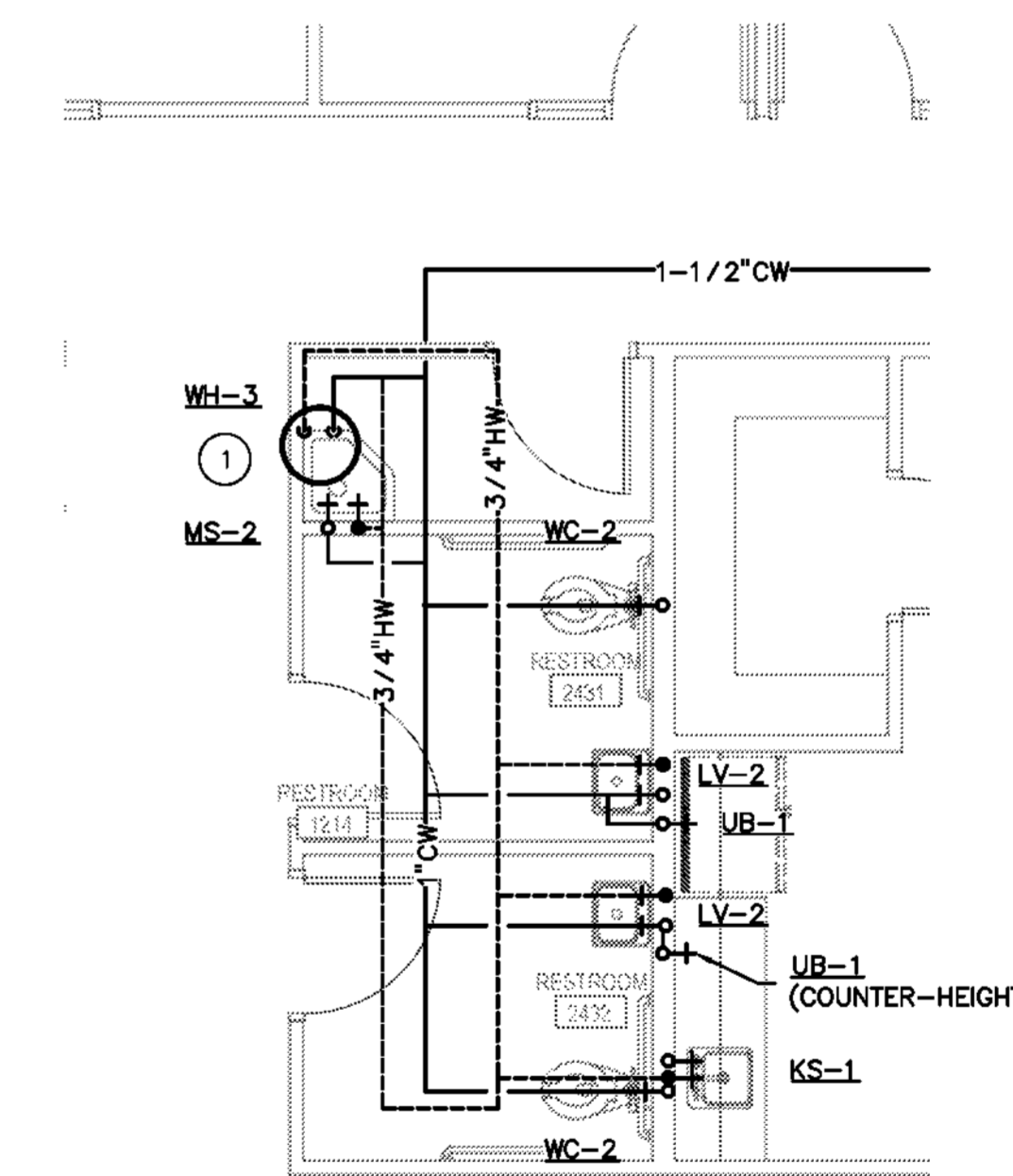
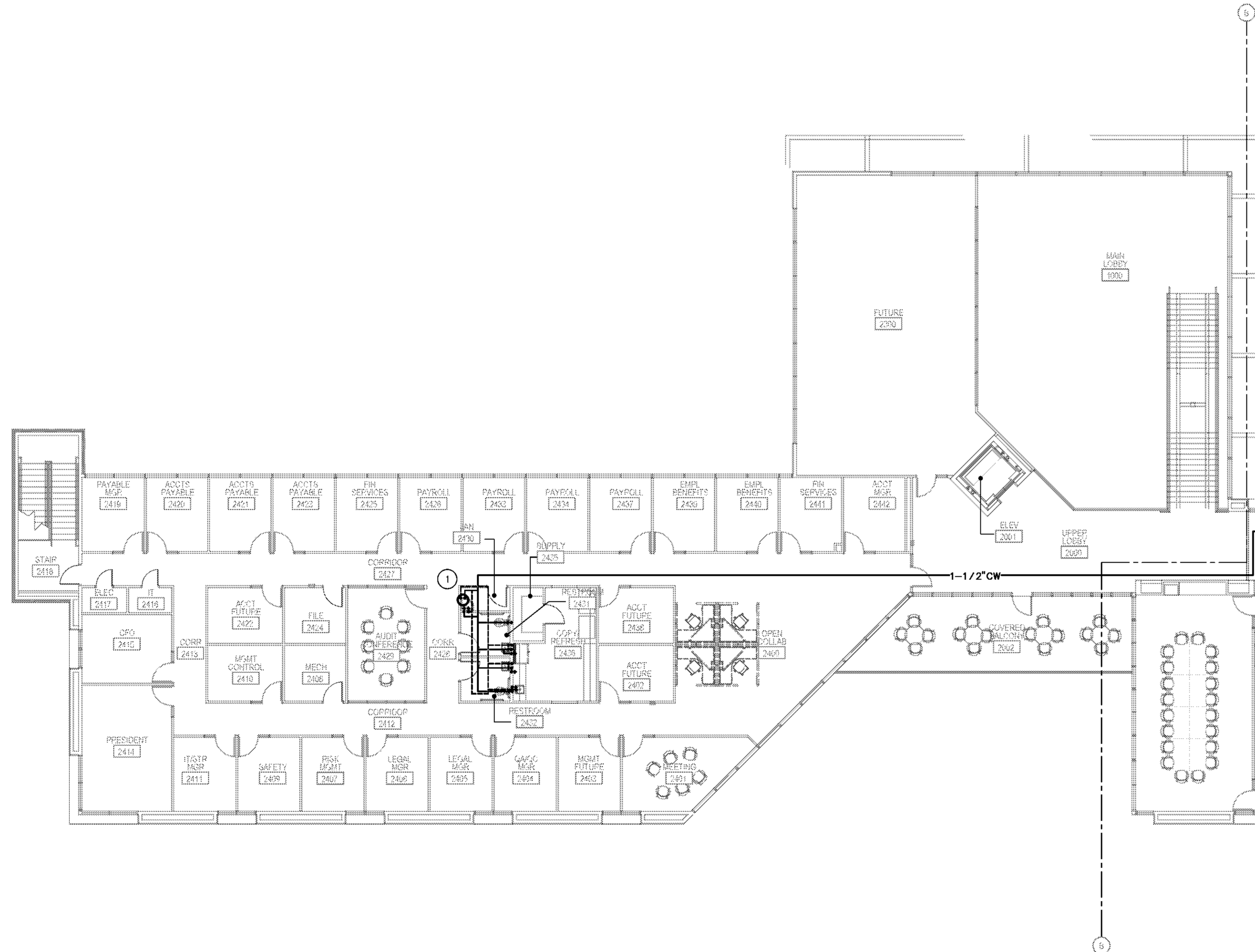
North P1.20

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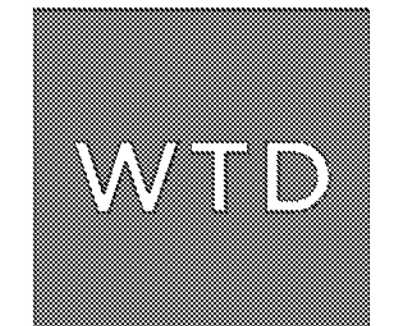
KEYED NOTES:

- 1 WATER HEATER TO BE MOUNTED OVER MOP SINK. SHOWN HERE FOR CLARITY.



2 Second Floor Enlarged Restrooms Plumbing Design
Scale: 1/4" = 1'-0"

1 Second Floor Plumbing Plan
Scale: 3/32" = 1'-0"

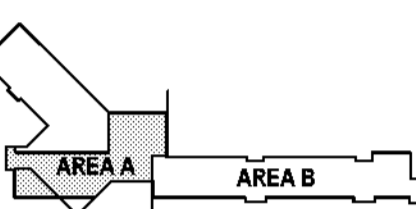


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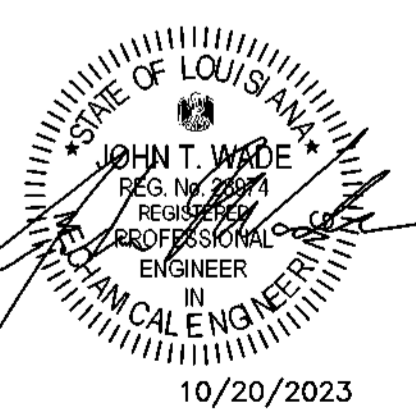


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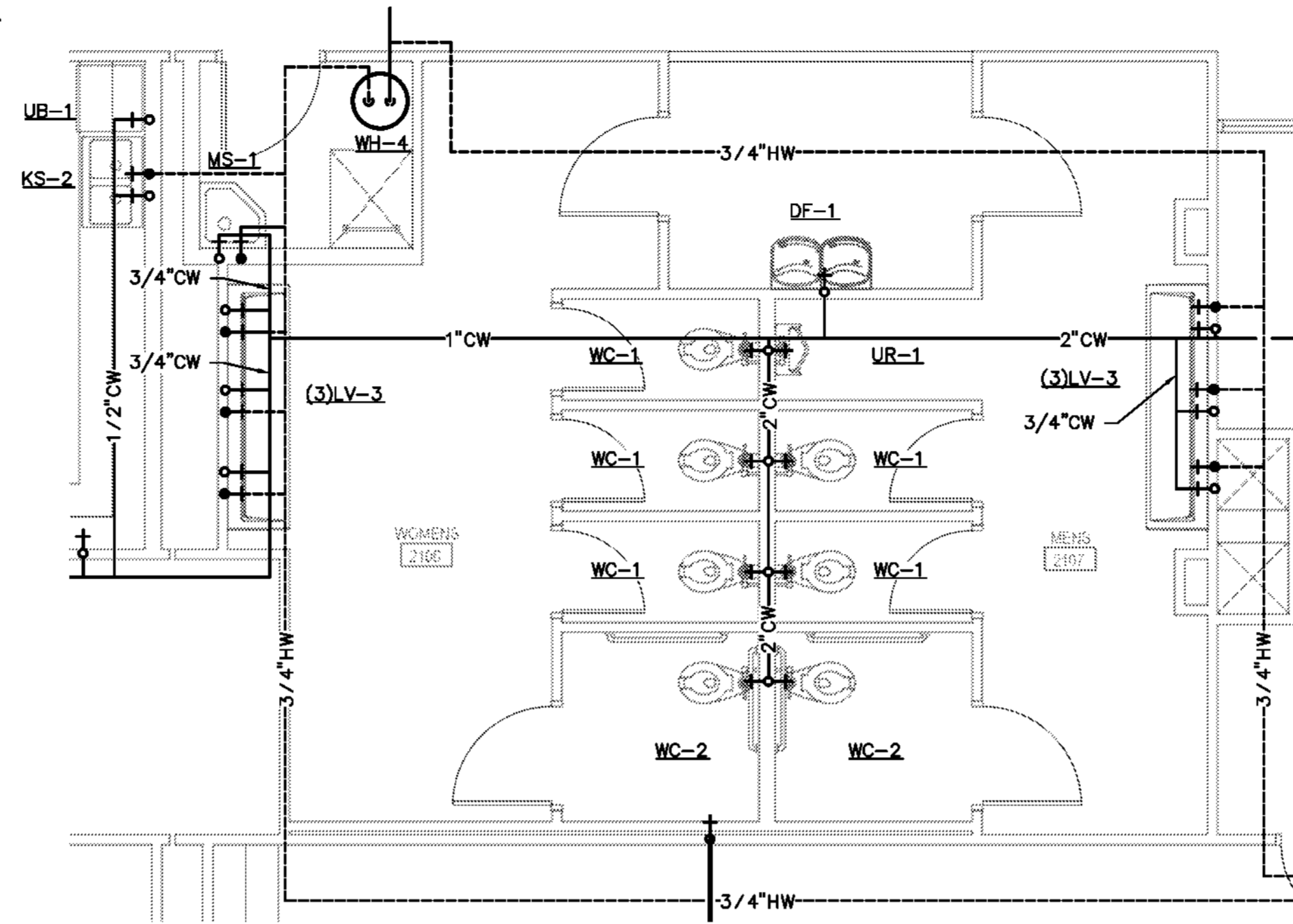
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Second Floor Plumbing Plan
Sheet 1 of 2

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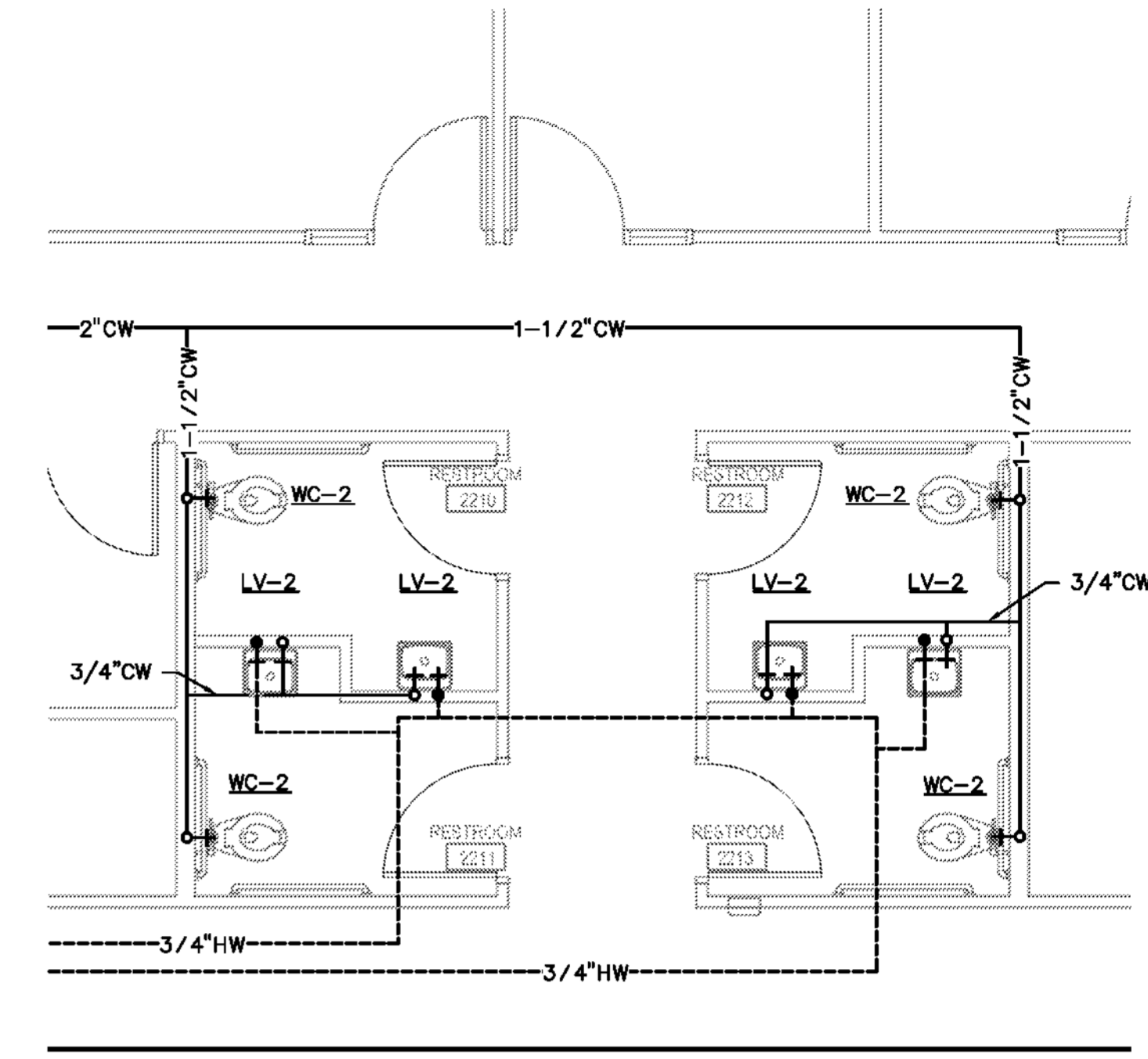
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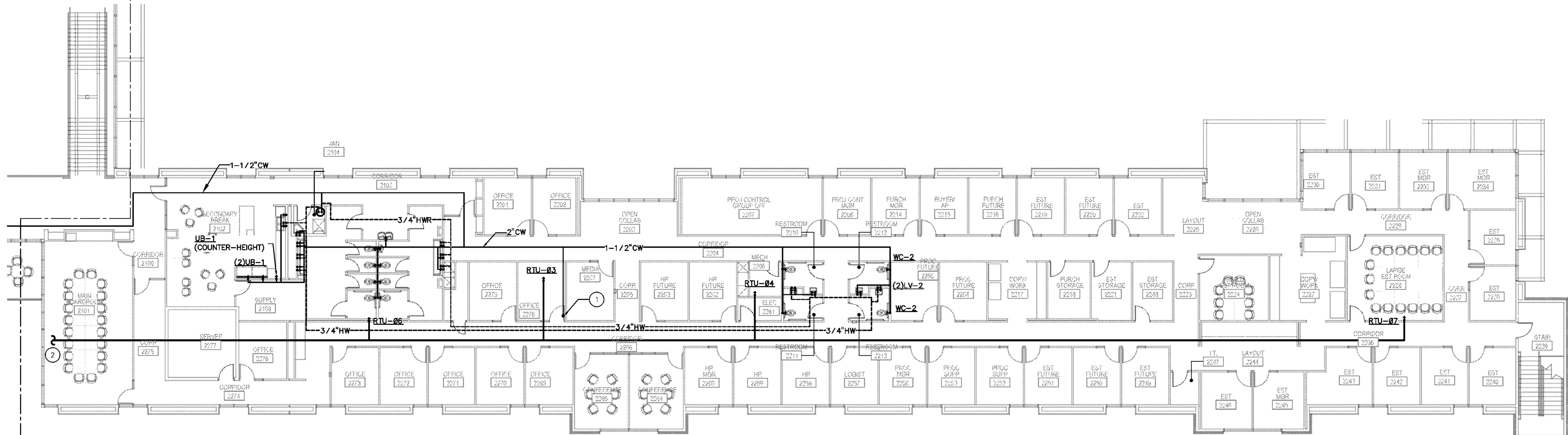
- ① DOMESTIC WATER LINE FROM FIRST FLOOR.
- ② 2" NG LINE ON ROOF TO SERVE RTU.



2 Second Floor Enlarged Restrooms 1 Plumbing Design
Scale: 1/4" = 1'-0"



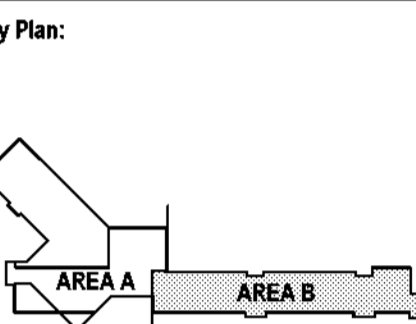
3 Second Floor Enlarged Restrooms 2 Plumbing Design
Scale: 1/4" = 1'-0"



1 Second Floor Plumbing Plan
Scale: 3/32" = 1'-0"

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Sheet 2 of 2

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Second Floor Plumbing Plan
Sheet 2 of 2

North

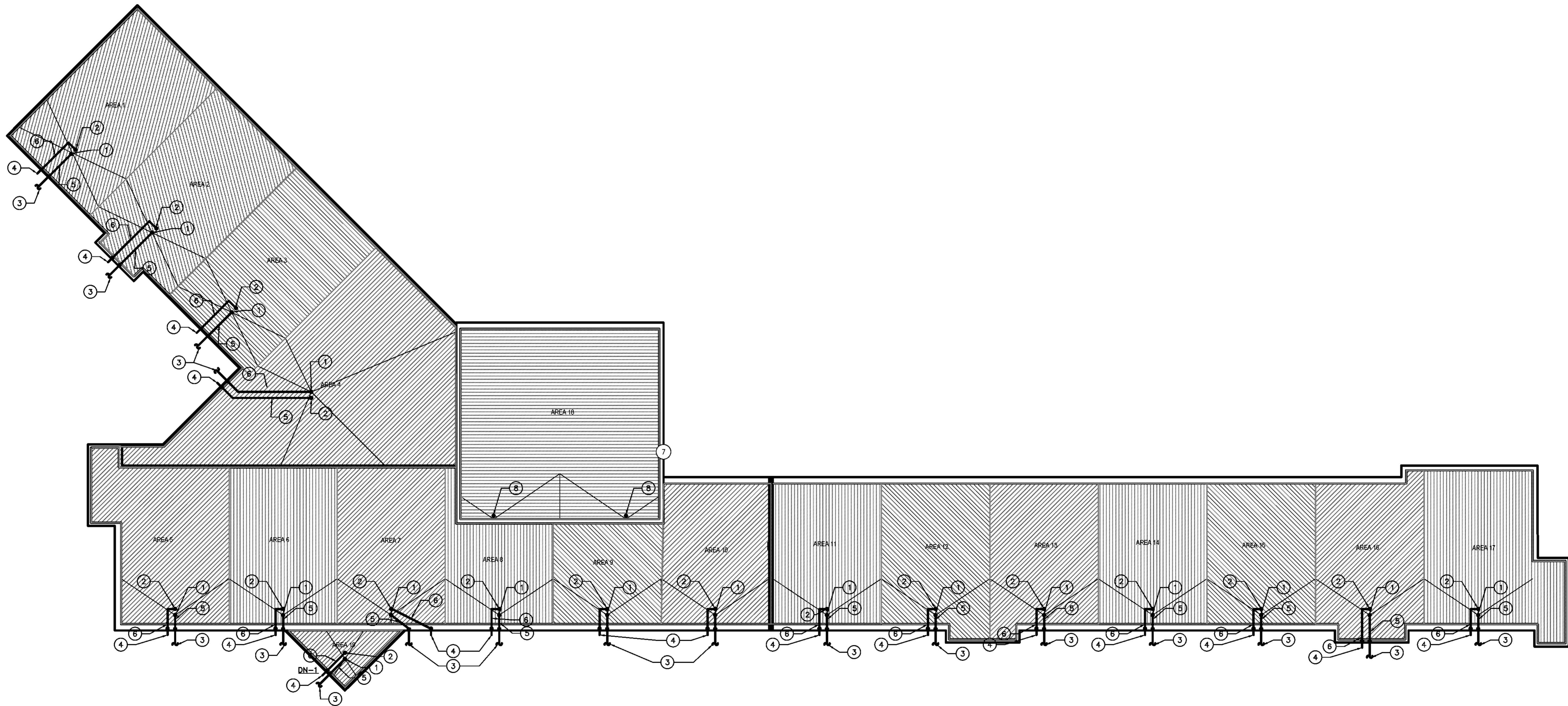
P1.22

KEYED NOTES:

- ① RD-1, ROOF DRAIN PRIMARY
- ② RD-2, ROOF DRAIN OVERFLOW
- ③ PRIMARY ROOF DRAIN DISCHARGE, OUT TO CIVIL/SITE UTILITIES, BELOW GRADE.
- ④ OVERFLOW ROOF DRAIN DISCHARGE. SIDEWALL DISCHARGE THROUGH DN-1, ABOVE GRADE.
- ⑤ PRIMARY ROOF DRAIN INTERNAL THROUGH BUILDING.
- ⑥ OVERFLOW ROOF DRAIN INTERNAL THROUGH BUILDING.
- ⑦ OVERFLOW DRAINAGE FOR AREA 18 PROVIDED VIA SCUPPERS APPROXIMATELY THIS LOCATION
- ⑧ RD-1, ROOF DRAIN PRIMARY, DRAIN PIPE ROUTING SHOWN ON P2.00-SERIES PLANS

DRAIN PIPE SPECIFICATION:

ROOF AREA	PIPE DIA. PER AREA
ALL AREAS (1 THRU 18)	6"



1 Overall Roof Plan
Scale: (not to scale)

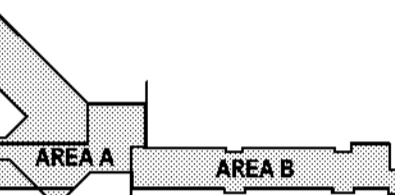


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Key Plan:



Consultants:

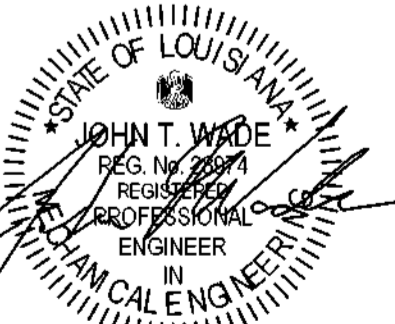


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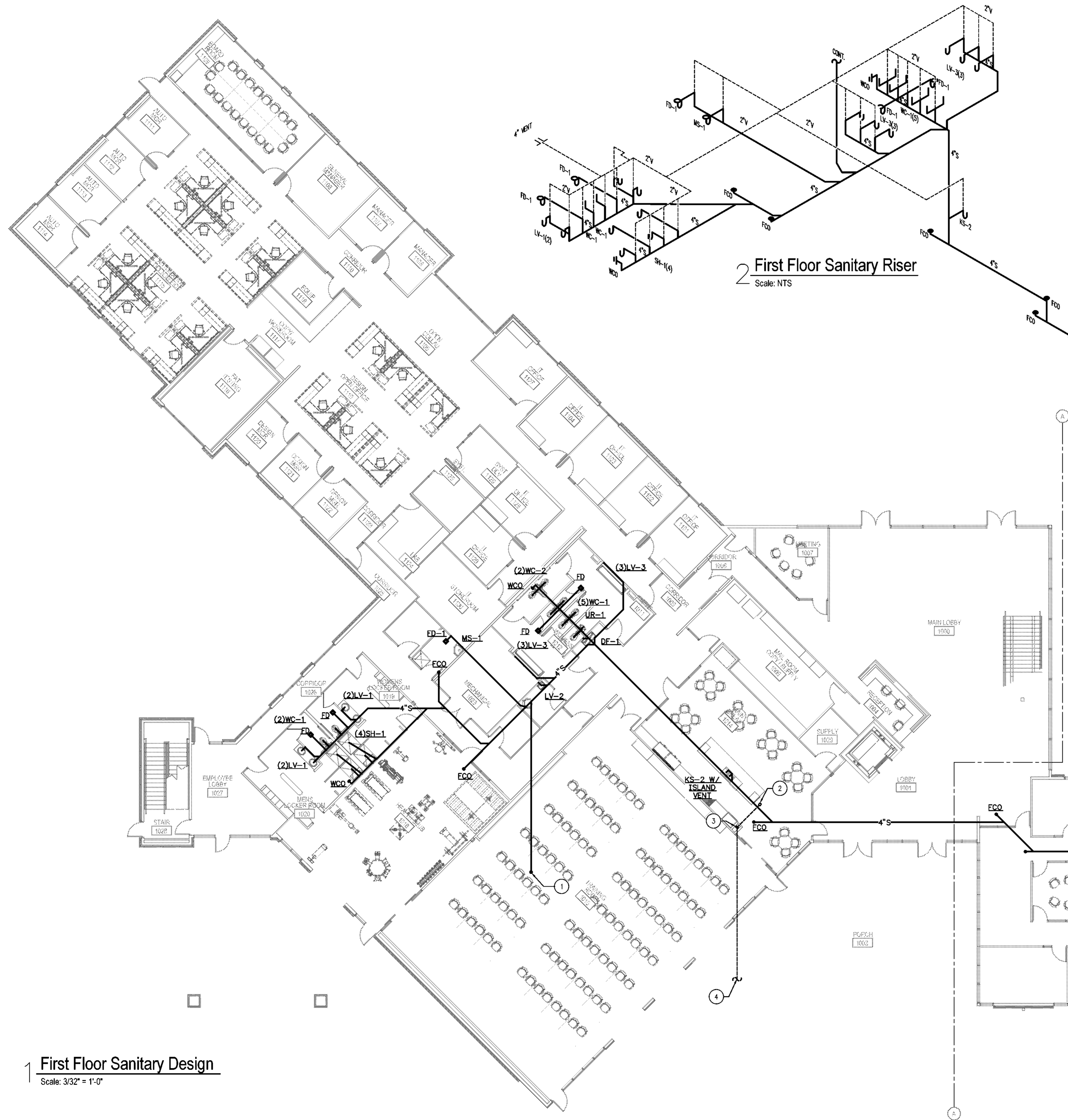


10/20/2023

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Overall Roof Plan

North
P1.40



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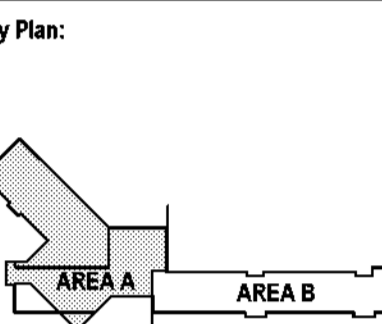
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10. PROVIDE CLEANOUTS EVERY 50' OR AT EACH CHANGE IN DIRECTION MORE THAN 45° AS REQUIRED BY CODE.

KEYED NOTES:

- 1 4" SANITARY LINE DOWN FROM SECOND FLOOR INTO CEILING SPACE.
- 2 6" PRIMARY ROOF DRAIN LEADER FROM 2ND FLOOR CHASE IN ROOM 2441. KEEP TIGHT TO ROOF / DECK.
- 3 6" PRIMARY ROOF DRAIN LEADER DOWN TO SUBSURFACE.
- 4 6" PRIMARY ROOF DRAIN LEADER, TO CIVIL / SITE UTILITIES. COORDINATE WITH CIVIL PLANS FOR CONTINUATION.

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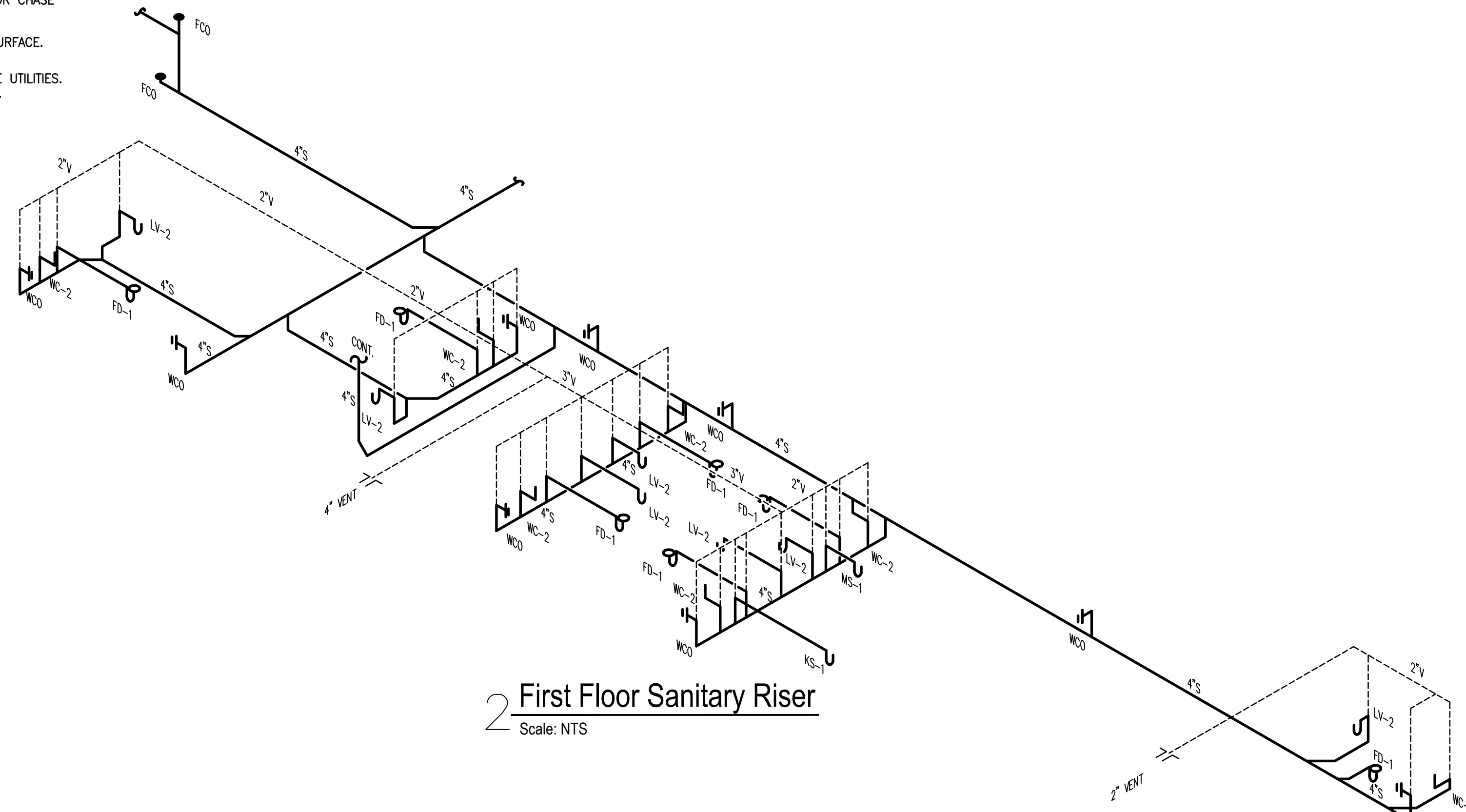
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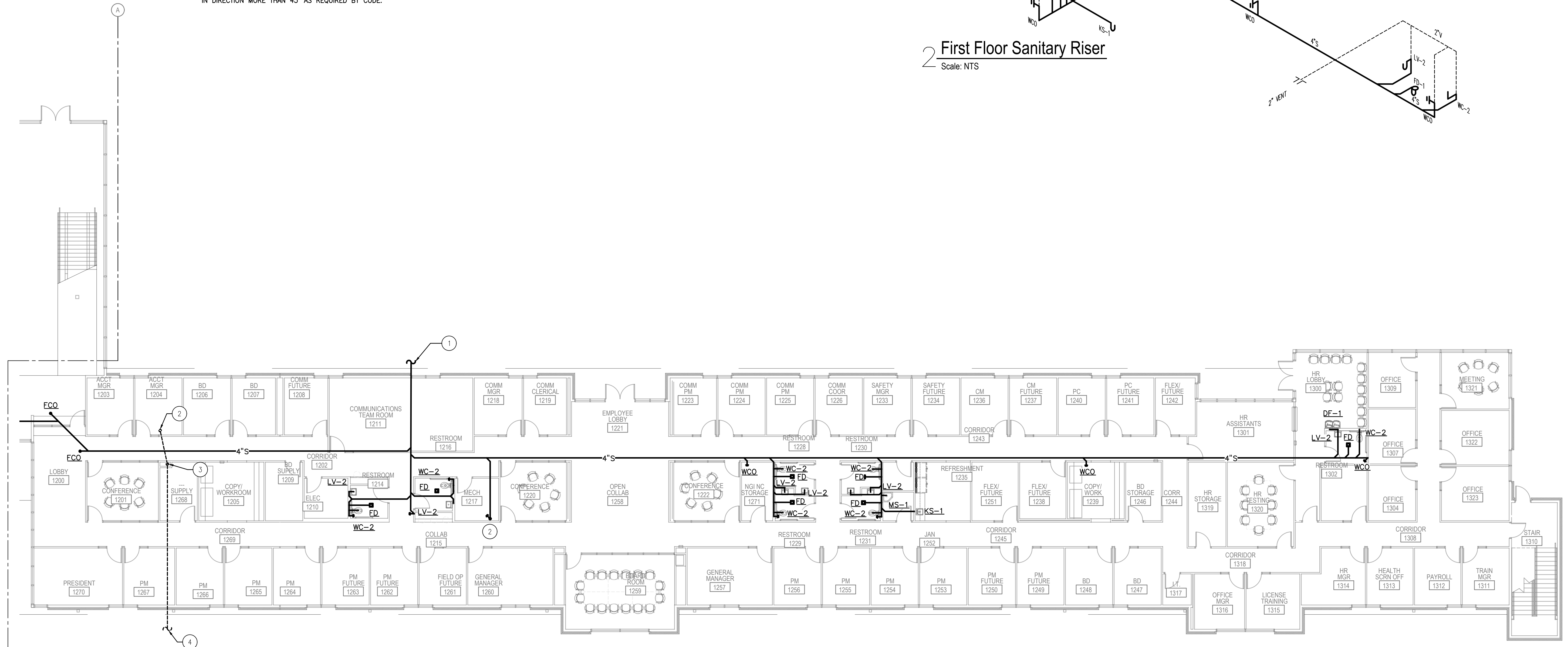
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KEYED NOTES:

- 1 INCOMING 4" SANITARY LINE FIELD VERIFY EXACT LOCATION.
- 2 4" SANITARY DOWN FROM FLOOR ABOVE, PROVIDE CLEANOUT AT BASE OF RISER
- 3 6" PRIMARY ROOF DRAIN LEADER FROM 2ND FLOOR CHASE IN ROOM 2102. KEEP TIGHT TO ROOF / DECK.
- 4 6" PRIMARY ROOF DRAIN LEADER DOWN TO SUBSURFACE. COORDINATE WITH CIVIL PLANS FOR CONTINUATION.



2 First Floor Sanitary Riser
Scale: NTS



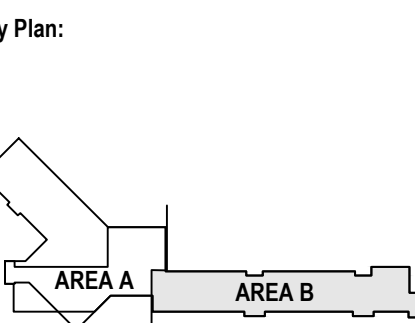
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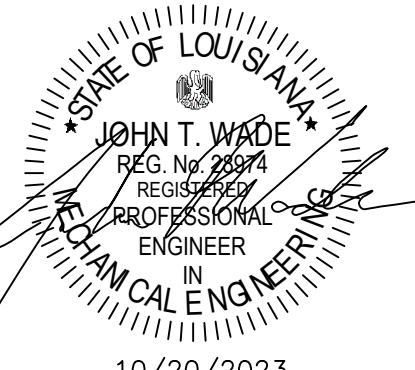
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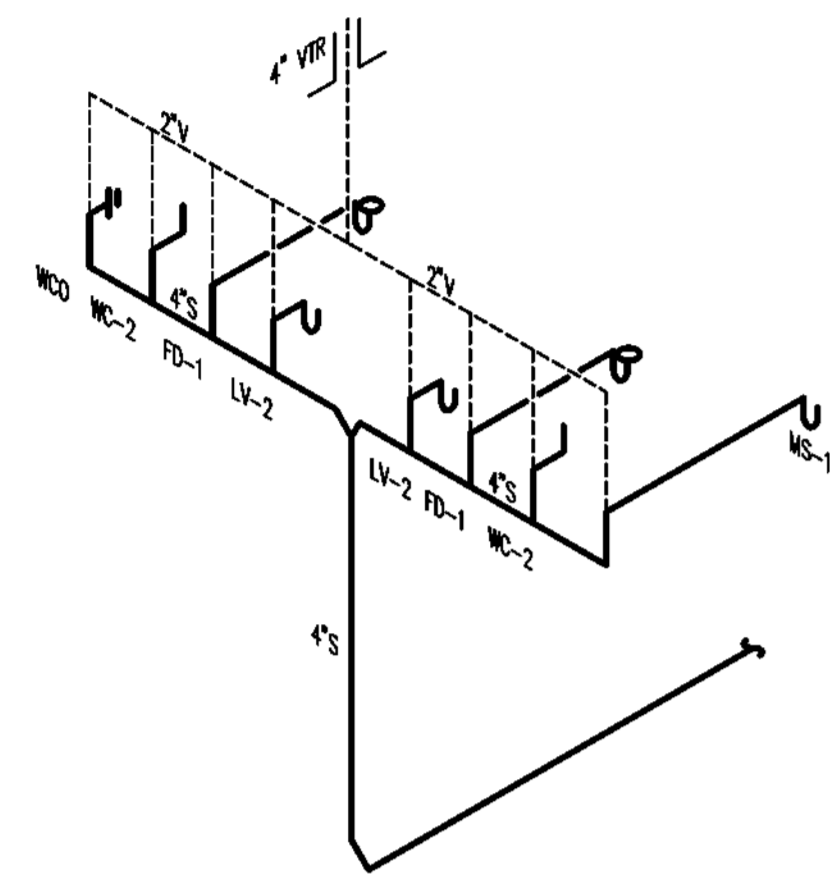
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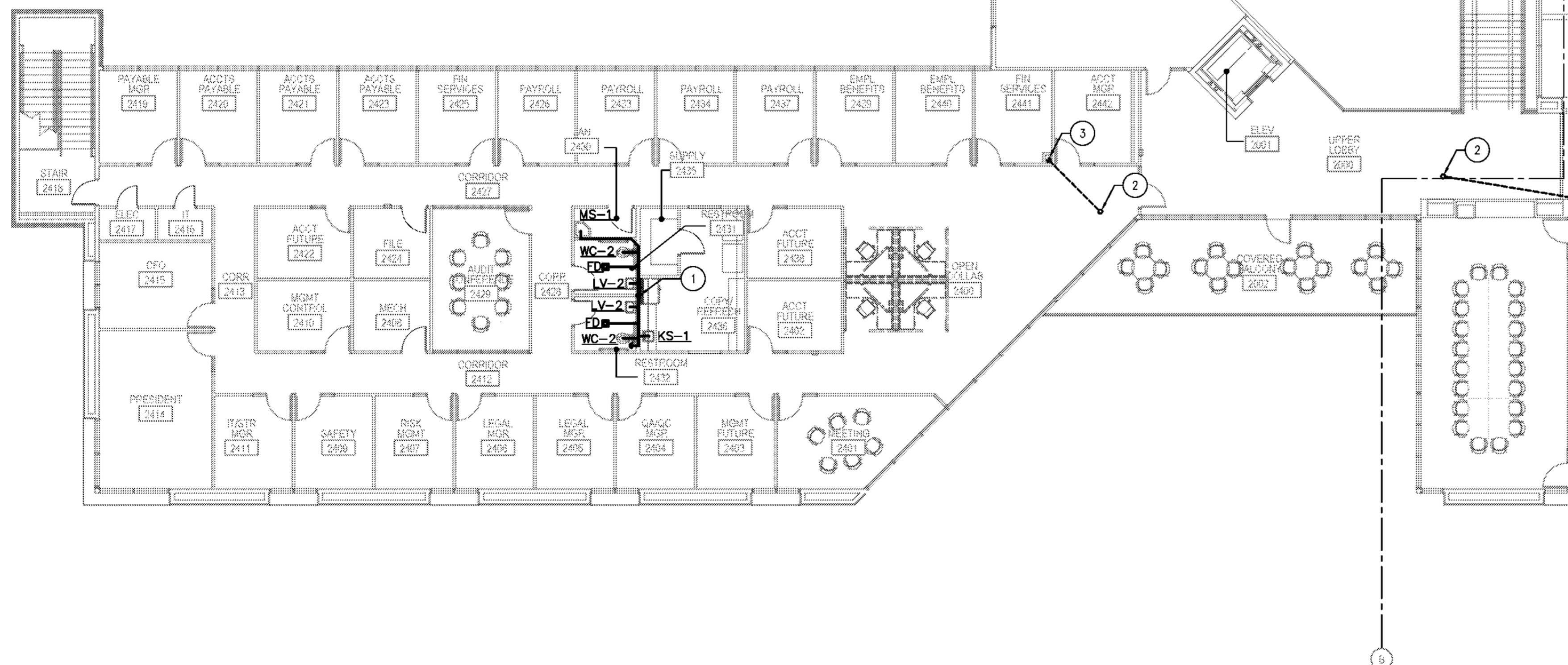
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2 Second Floor Sanitary Riser
Scale: NTS



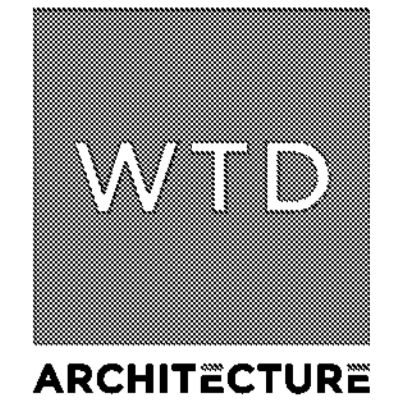
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4. THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
5. COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
6. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS, AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
7. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE DEVICE.
8. ALL FLOOR DRAINS ARE TO HAVE 4" DEEP SEAL TRAPS. PROVIDE 1/2" TRAP PRIMER FROM LAVATORIES FOR FLOOR DRAINS IN RESTROOMS AND JANITOR.
9. PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
10. PROVIDE CLEANOUTS EVERY 50' OR AT EACH CHANGE IN DIRECTION MORE THAN 45° AS REQUIRED BY CODE.

KEYED NOTES:

- ① 4" SANITARY DOWN TO FIRST FLOOR.
- ② 6" PRIMARY ROOF DRAIN LEADER FROM ROOF AREA 1B. KEEP TIGHT TO ROOF / DECK.
- ③ 6" PRIMARY ROOF DRAIN LEADER DOWN TO 1ST FLOOR.

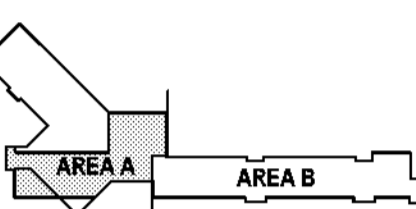


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Key Plan:

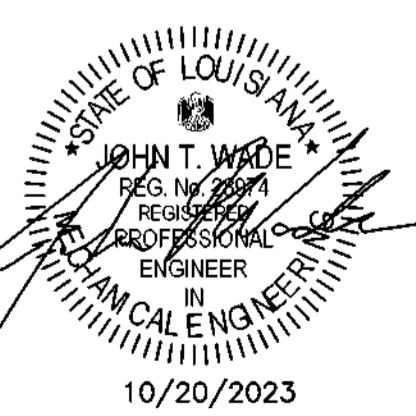


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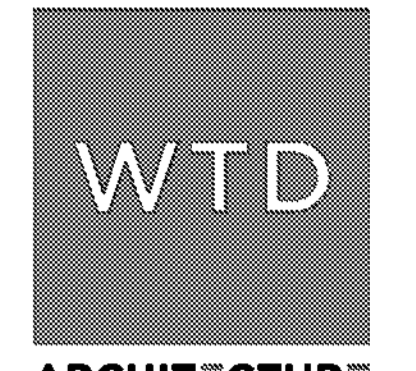
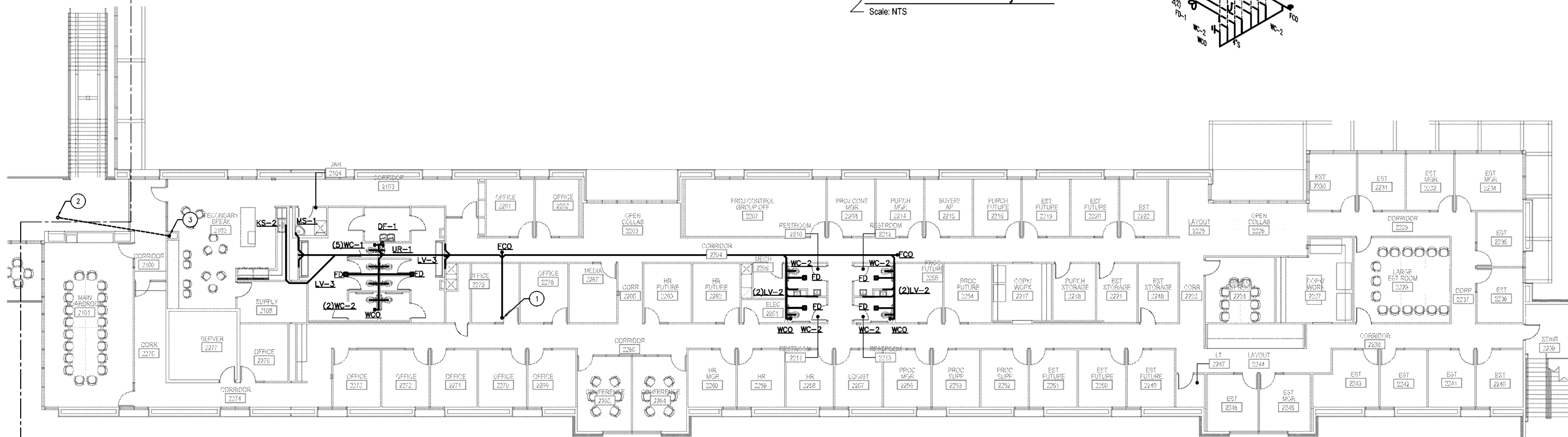
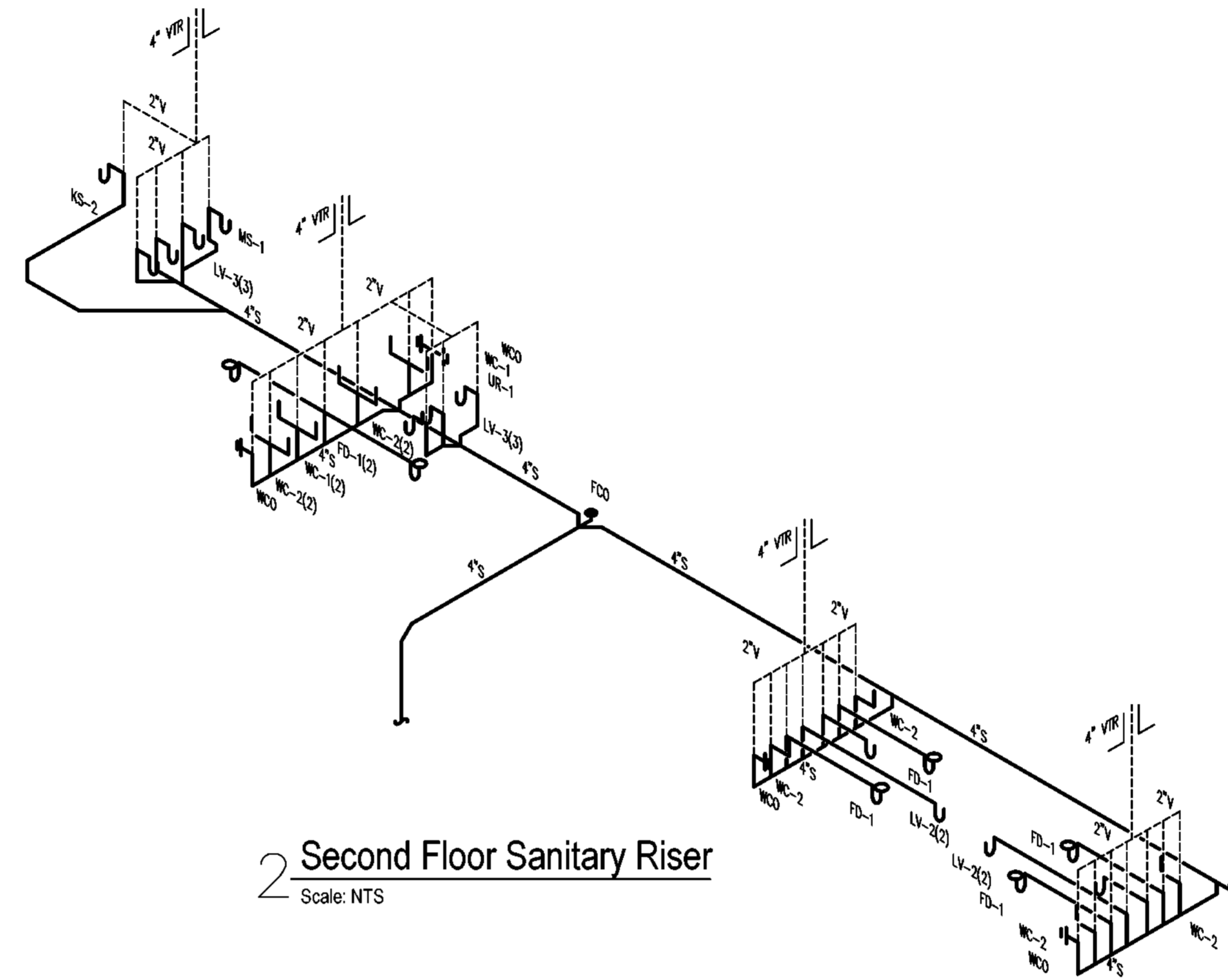
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SM Description:
Second Floor Sanitary Plan
Sheet 1 of 2

GENERAL NOTES:

1. THIS DRAWING IS DIAGRAMMATICAL AND SOME FIXTURES ARE SHOWN FOR CLARITY. COORDINATE ALL DRAINS AND WATER CONNECTIONS WITH EQUIPMENT PLANS AND CUT SHEETS PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BIDDING. CONTRACTOR WILL PROVIDE THE WORK OF ANY ISSUE NOT IDENTIFIED PRIOR TO BIDDING AT NO COST TO THE OWNER.
2. ALL FD-1 FIXTURES TO HAVE 1/2" TRAP PRIMER FIELD ROUTED FROM NEAREST PLUMBING FIXTURE.
3. THIS CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
4. THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
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8. ALL FLOOR DRAINS ARE TO HAVE 4" DEEP SEAL TRAPS. PROVIDE 1/2" TRAP PRIMER FROM LAVATORIES FOR FLOOR DRAINS IN RESTROOMS AND JANITOR.
9. PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
10. PROVIDE CLEANOUTS EVERY 50' OR AT EACH CHANGE IN DIRECTION MORE THAN 45° AS REQUIRED BY CODE.

KEYED NOTES:

- ① 4" SANITARY DOWN TO SECOND FLOOR.
- ② 6" PRIMARY ROOF DRAIN LEADER FROM ROOF AREA 18. KEEP TIGHT TO ROOF / DECK.
- ③ 6" PRIMARY ROOF DRAIN LEADER DOWN TO 1ST FLOOR.

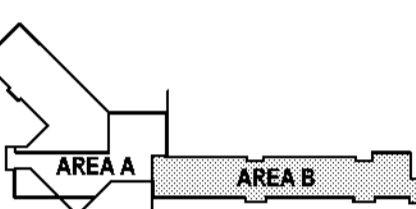


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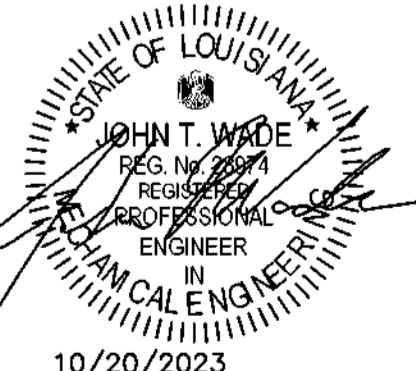


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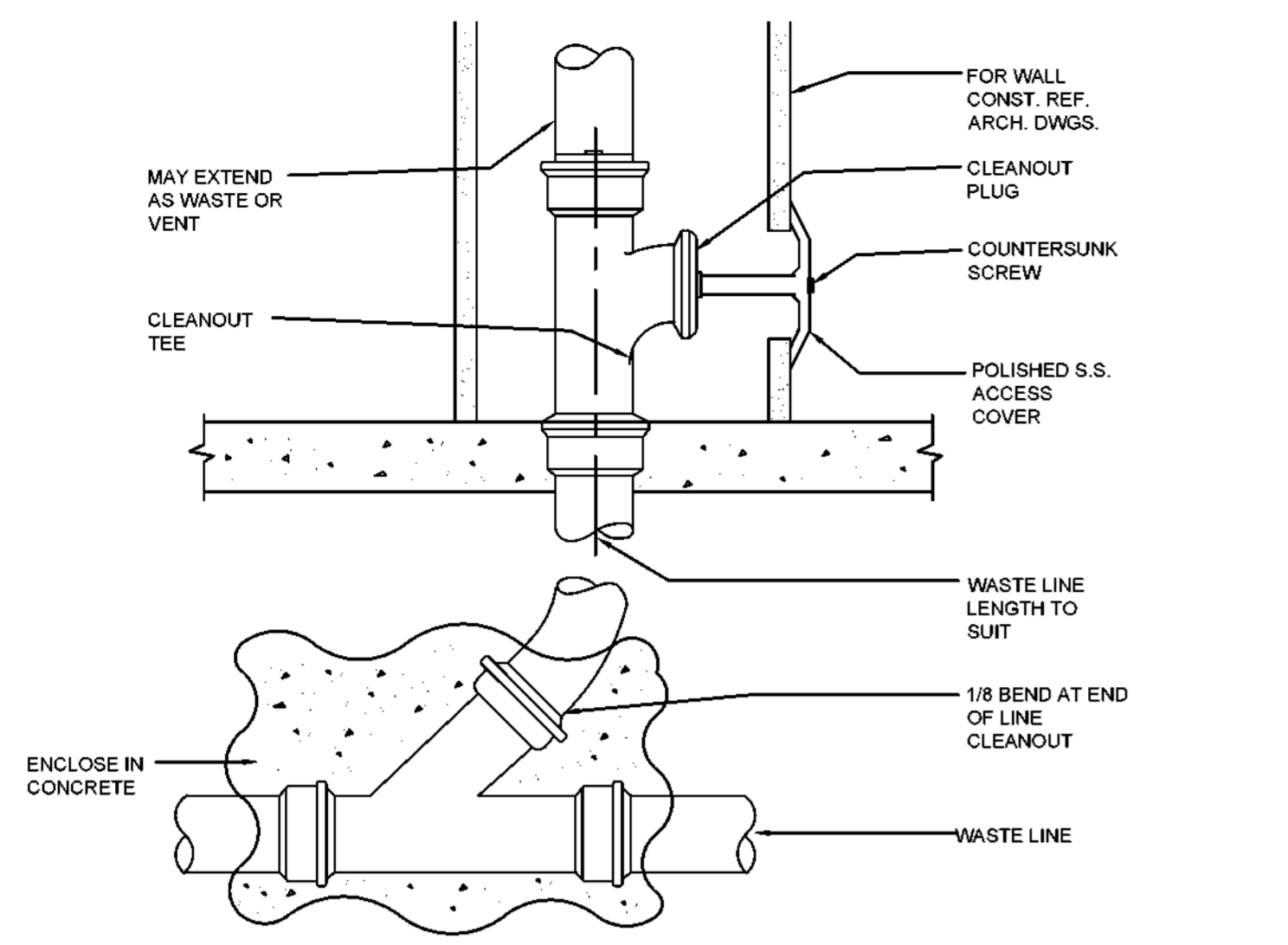


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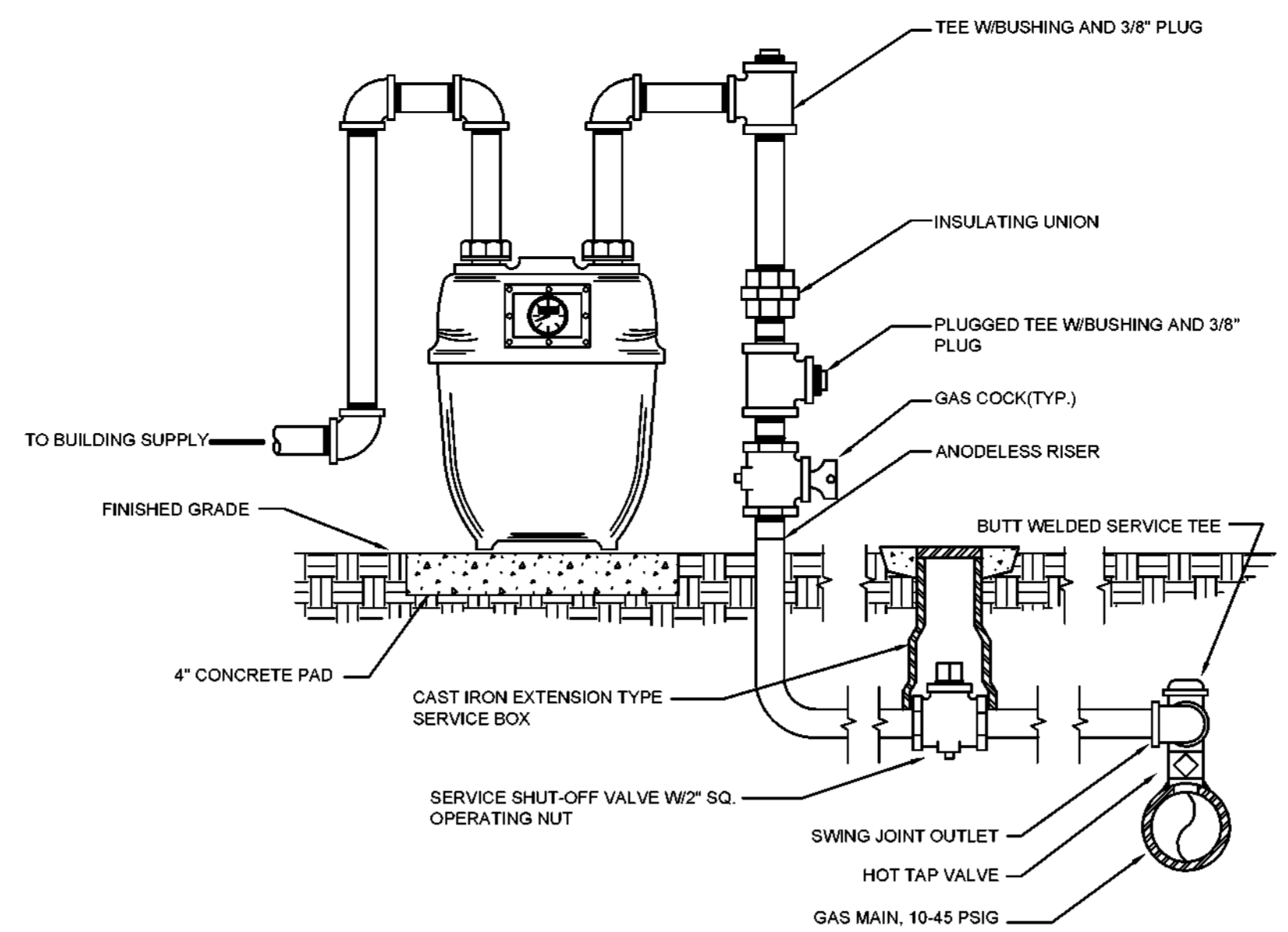
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Date: 10-26-23
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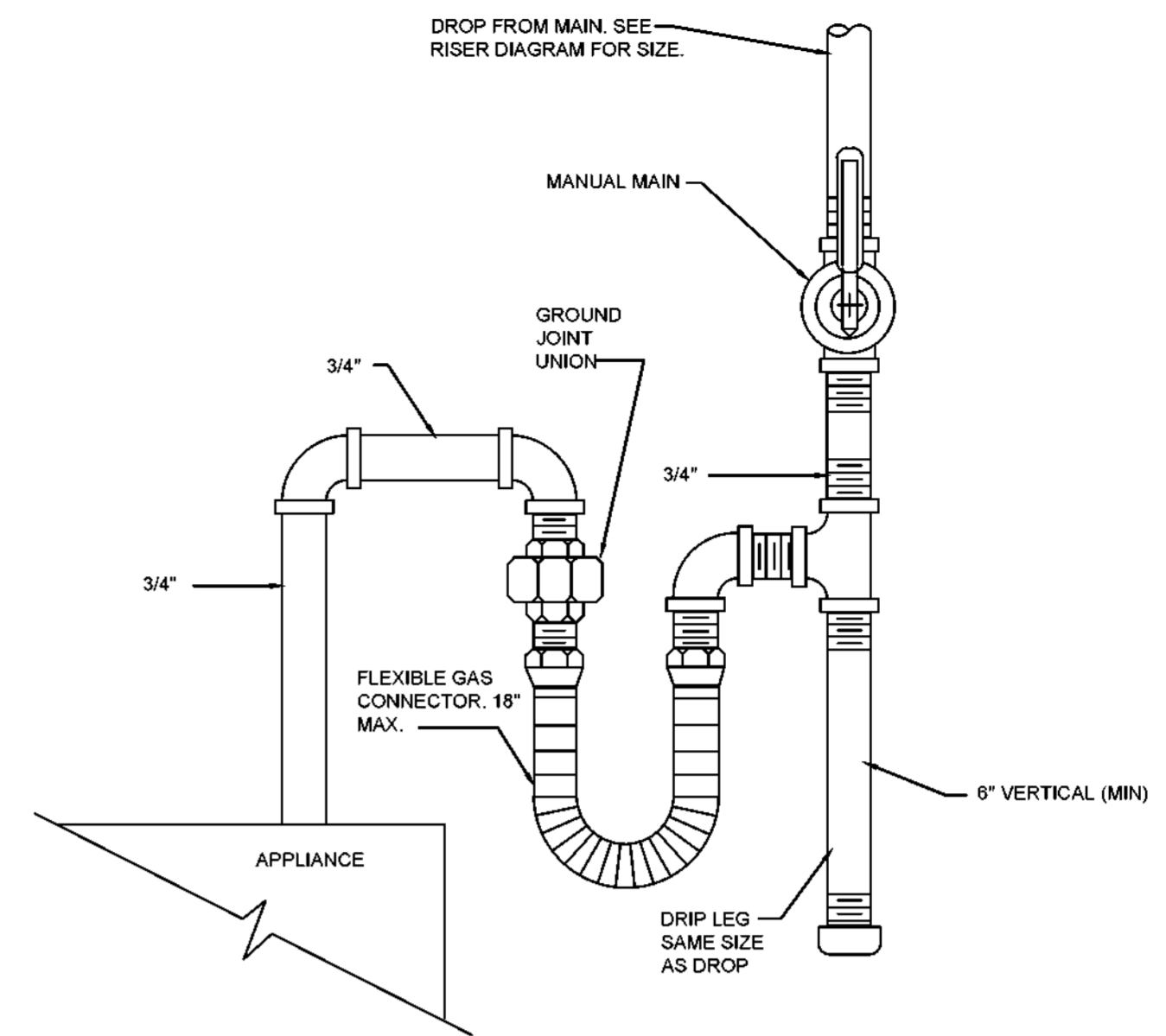
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SM Description:
Second Floor Sanitary Plan
Sheet 2 of 2



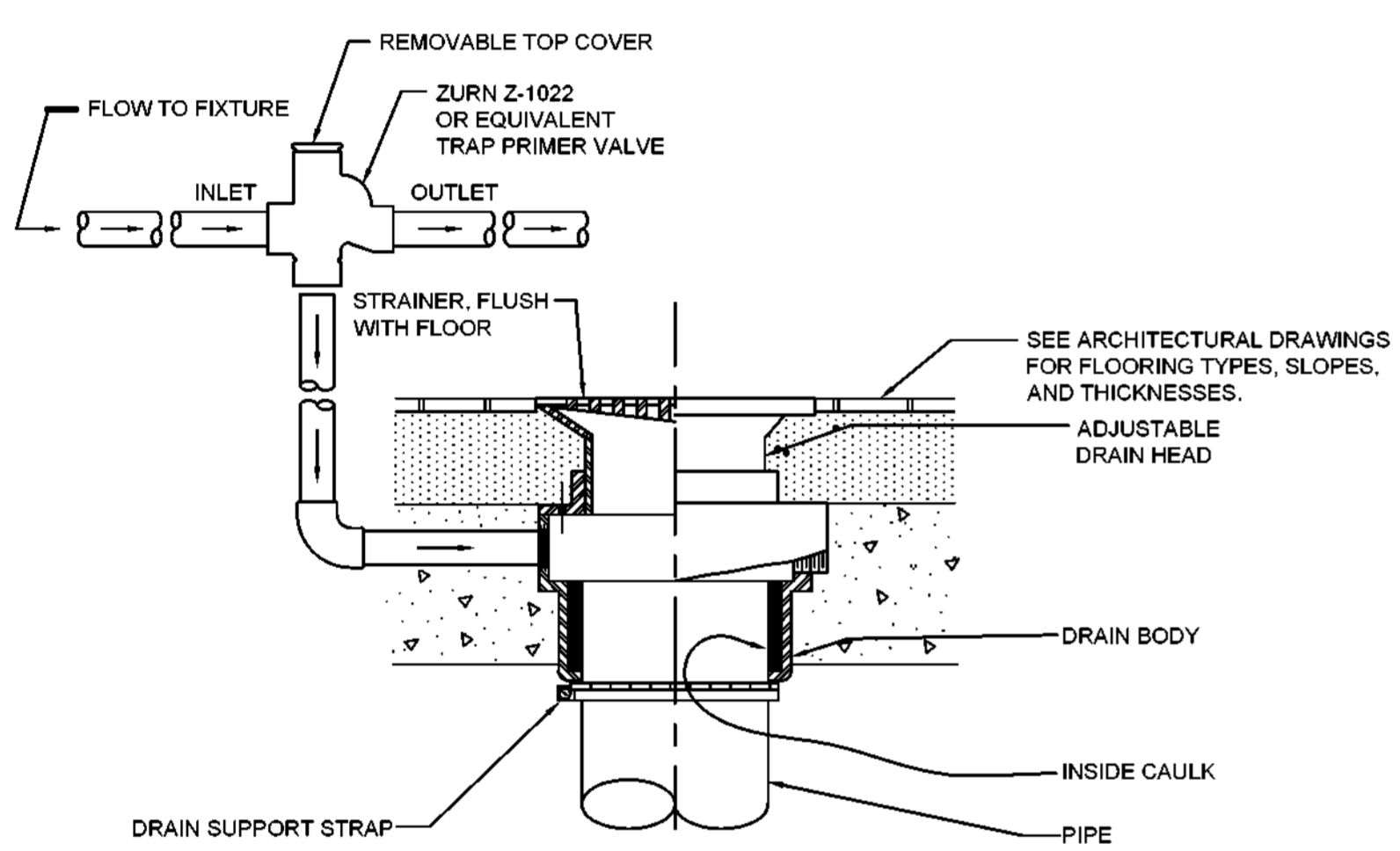
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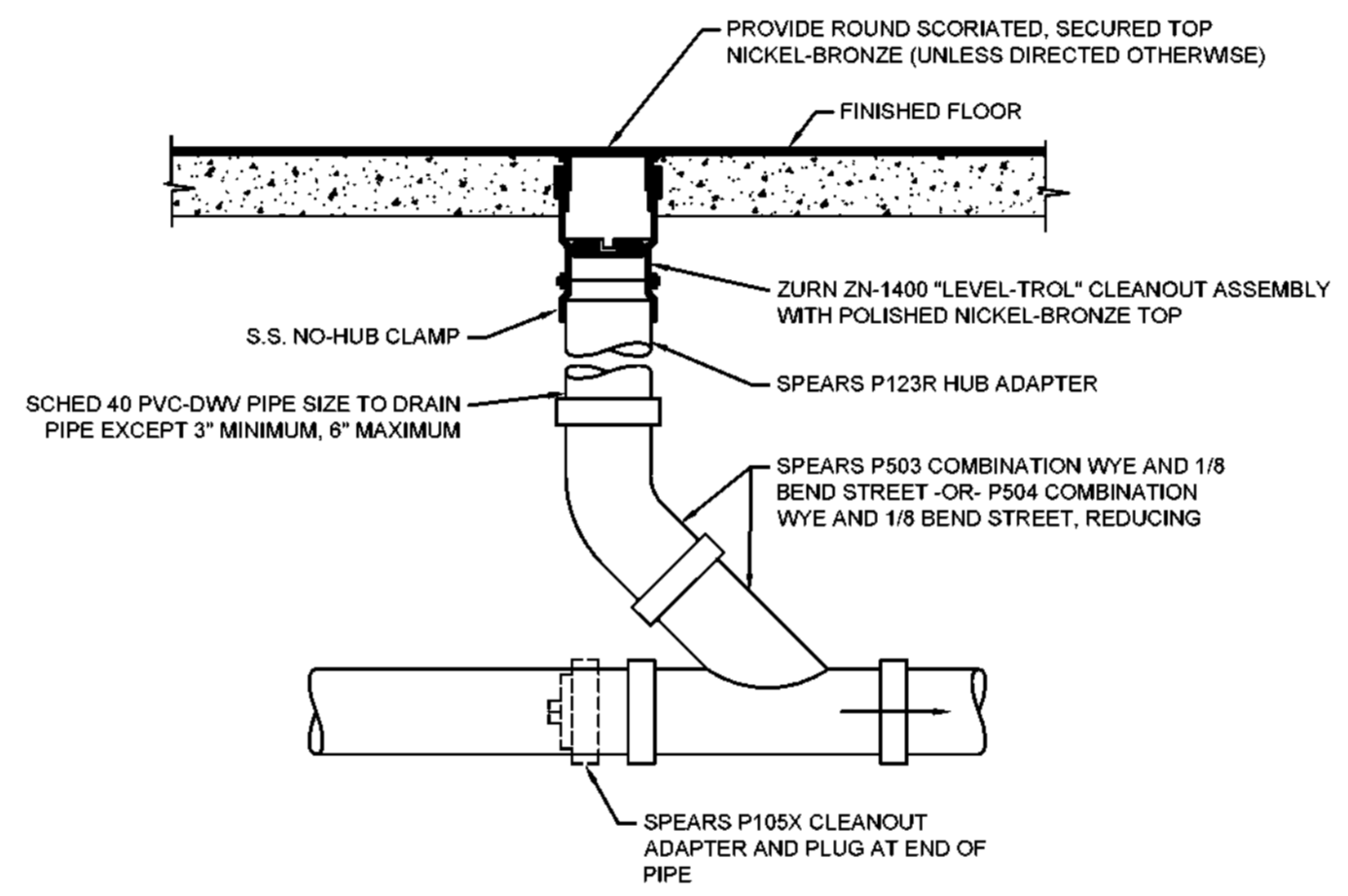
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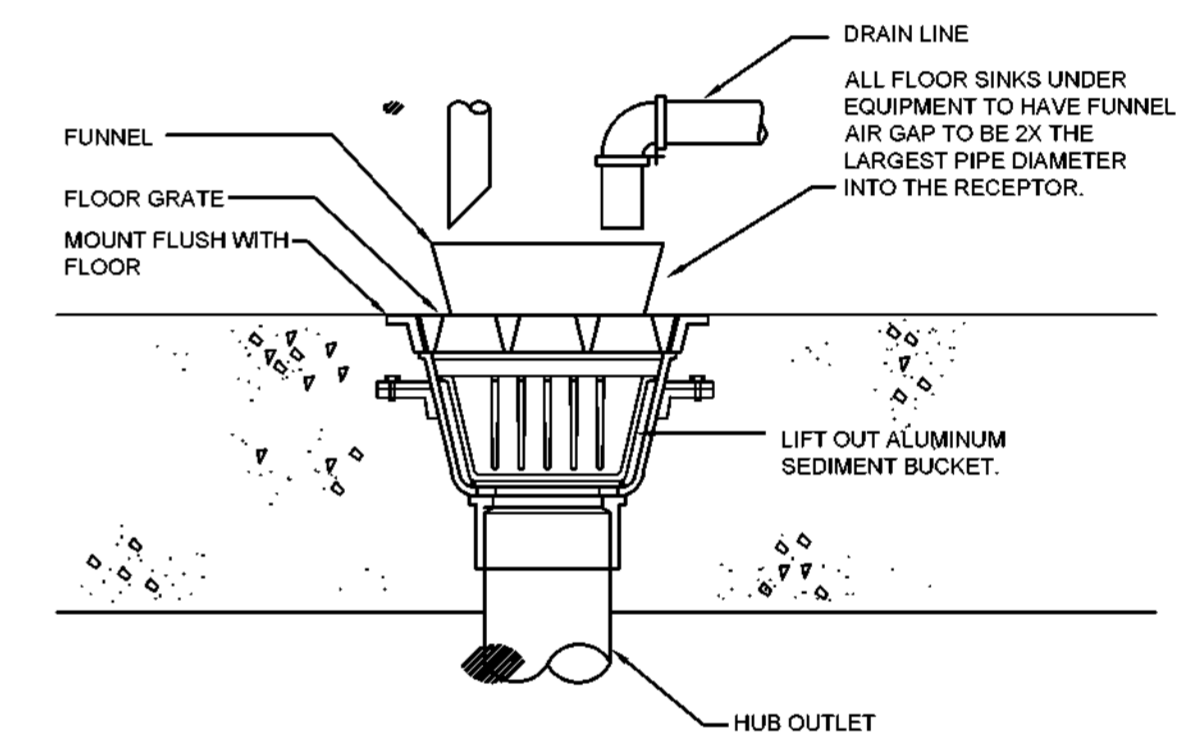
TYPICAL GAS SERVICE CONNECTION DETAIL
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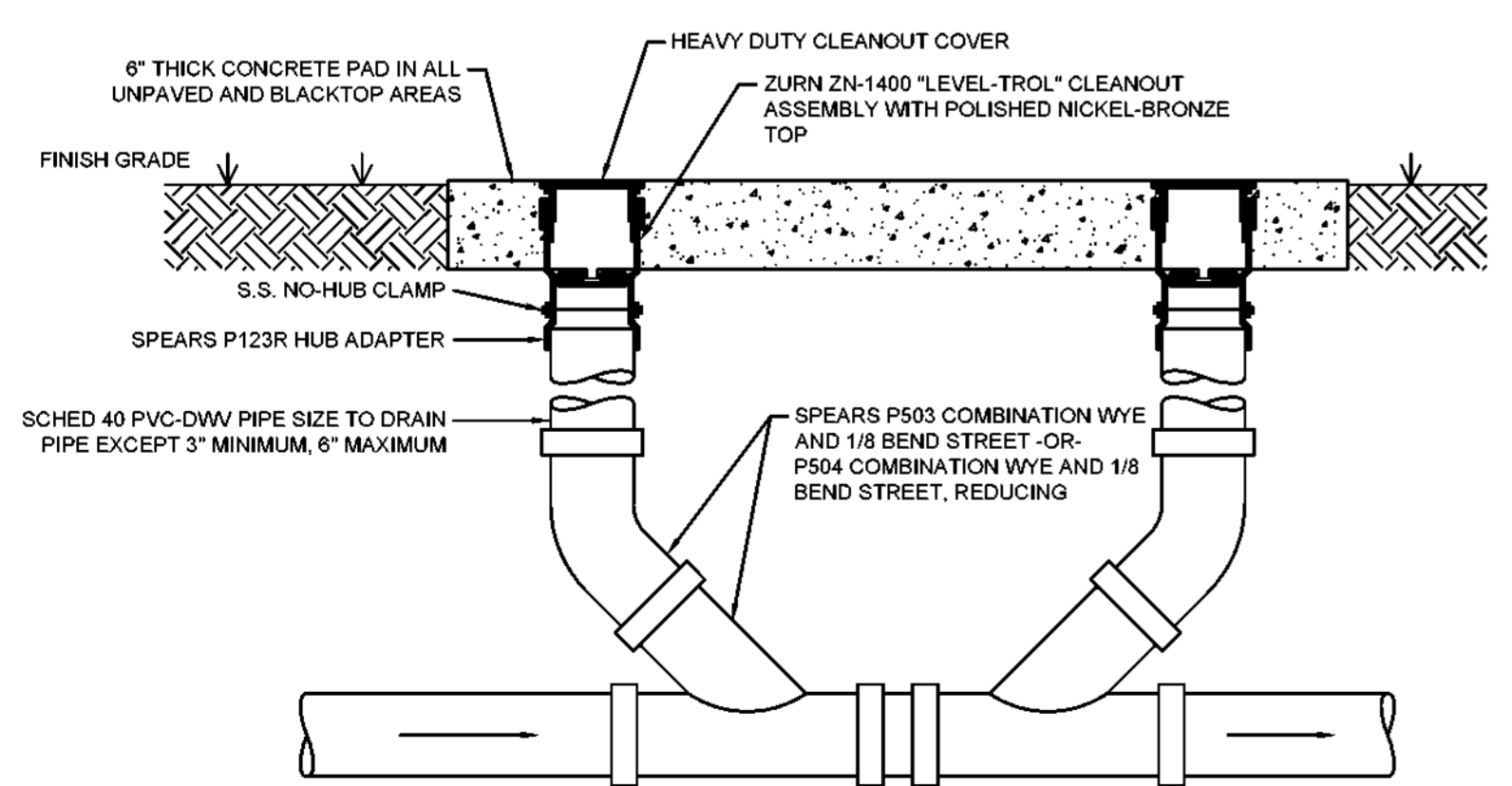
FLOOR DRAIN WITH TRAP PRIMER DETAIL
SCALE: NONE **4**



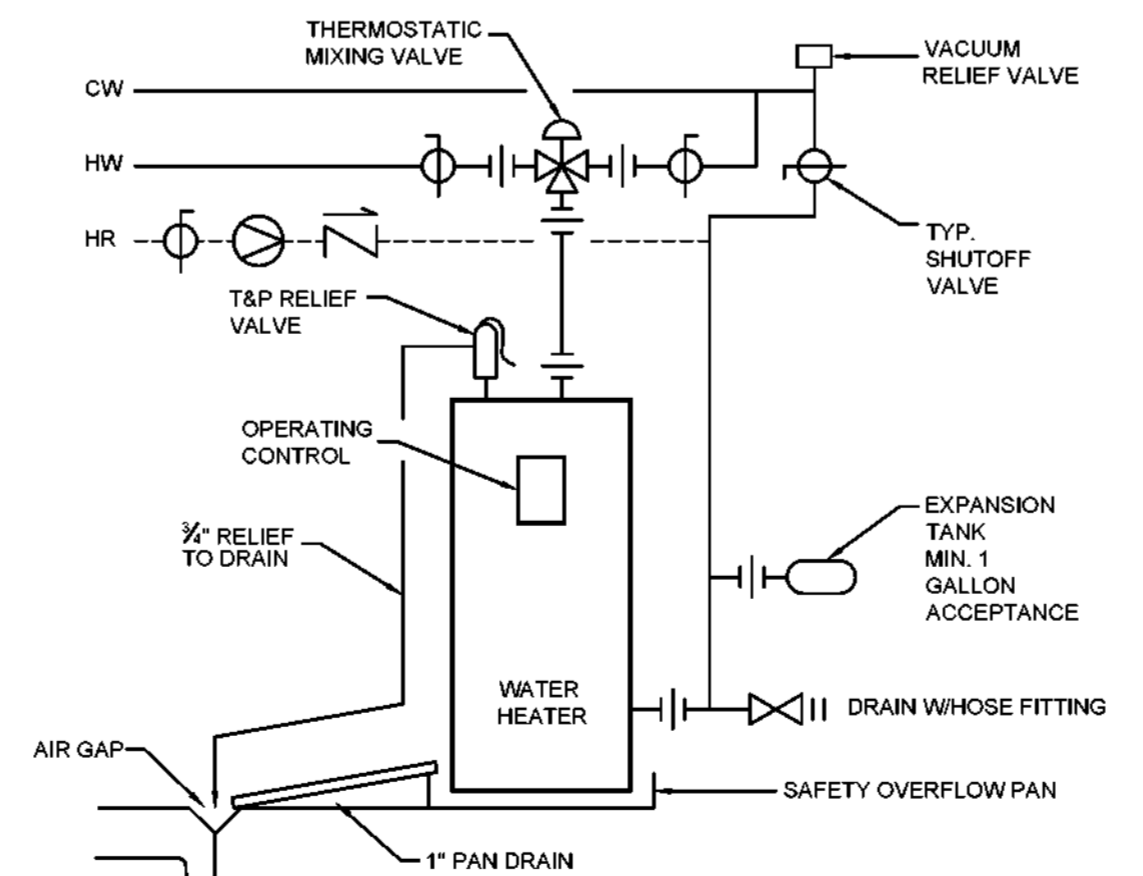
FINISHED FLOOR CLEANOUT DETAIL
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FLOOR SINK DETAIL
SCALE: NONE **6**

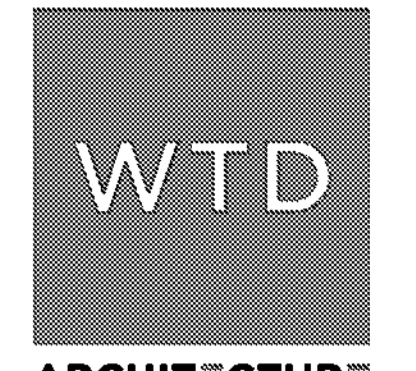


2-WAY CLEANOUT DETAIL
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WATER HEATER DETAIL
SCALE: NONE **8**

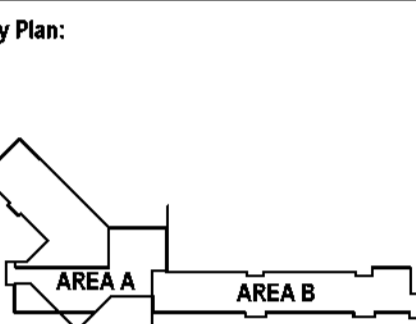
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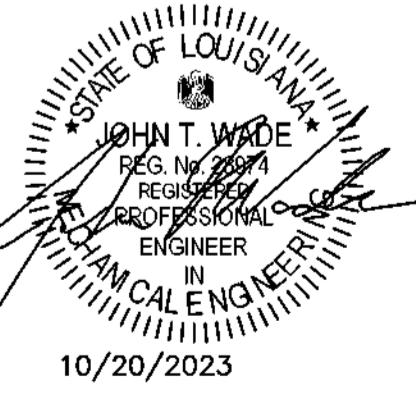


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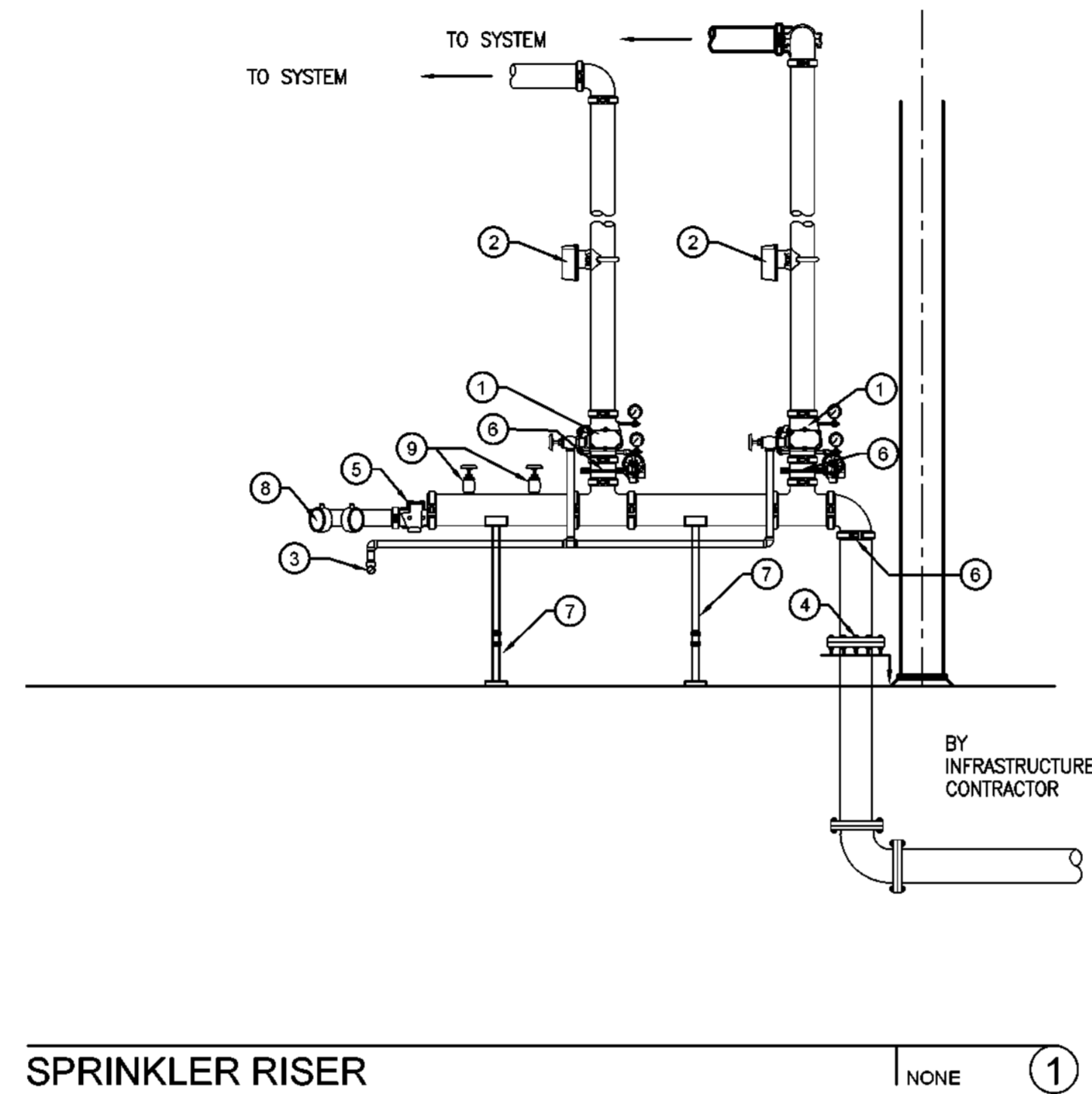


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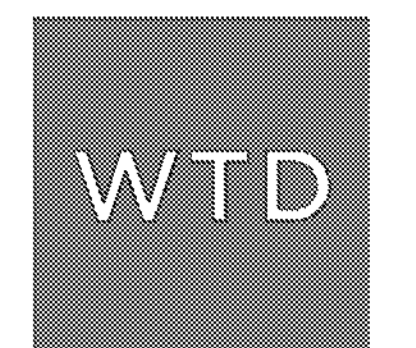
North **P3.01**

WET PIPE GENERAL NOTES

1. PROVIDE A NEW WET PIPE FIRE SPRINKLER SYSTEM THROUGHOUT THE BUILDING AS INDICATED ON THE DRAWINGS TO INCLUDE OVERHANGS AND CANOPIES IN ACCORDANCE WITH NFPA 13 – 2019 EDITION, THE STATE FIRE MARSHAL AND THE CITY OF BATON ROUGE'S FIRE CODE, AND LOCAL ORDINANCES.
2. PROVIDE SEPARATE FLOOR MANIFOLDS OR RISERS FOR EACH FLOOR.
3. SPRINKLER CONTRACTOR SCOPE OF WORK TO INCLUDE SYSTEM FROM THE LEAD-IN STUB UP TO THE MOST REMOTE POINTS OF THE SYSTEM.
4. SPRINKLER CONTRACTOR TO HAVE A SPRINKLER CONTRACTORS LICENSE ISSUED BY THE STATE OF LOUISIANA FOR A MINIMUM OF 5 YEARS.
5. BACKFLOW WILL BE INSTALLED BY OTHERS. CONTRACTOR TO PROVIDE DETAILS OF THE INSTALLATION AND MATERIALS ON SHOP DRAWINGS.
6. FIRE DEPARTMENT CONNECTION TO BE WALL MOUNTED UNLESS LOCAL REQUIREMENTS CONFLICT.
7. PROJECT INCLUDES ELEVATOR. PROVIDE SPRINKLER PROTECTION FOR ELEVATOR SHAFT AND MACHINE ROOM PER NFPA 13. FULLY DOCUMENT COMPLIANCE WITH SECTION OF STANDARD AND DETAIL ON SHOP DRAWINGS. INCLUDE FULL DESCRIPTION OF ELEVATOR TYPE.
8. CONTRACTOR TO PREPARE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS DONE BY A TECHNICIAN WITH A MINIMUM OF A NICET LEVEL III IN WATER BASED SYSTEMS. FULLY ANNOTATED DATA SHEETS ARE REQUIRED. SUBMIT TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO SUBMISSION TO THE STATE FIRE MARSHAL FOR PERMITTING.
9. SYSTEM SHOWN IS FOR BIDDING PURPOSES AND TO REFLECT MINIMUM REQUIREMENTS.
10. HYDRAULIC CALCULATIONS TO BE BASED ON WATER FLOW TEST OF CITY MAIN IN STREET. FLOW TEST TO BE CONDUCTED BY CONTRACTOR WITHIN 1 YEAR OF PROJECT START DATE. DESIGN DENSITIES TO BE AS REFLECTED ON THE DRAWINGS.
11. COORDINATE AND OR OBTAIN PERMITS AND TESTING WITH THE AHJ.
12. ALL ABOVE GROUND PIPING TO BE SIZED PER HYDRAULIC CALCULATIONS WITH A MAXIMUM WATER VELOCITY OF 20 FPS.
13. ALL VALVES TO BE WITHIN 7 FEET AFF.
14. ALL GROOVED FITTINGS AND COUPLINGS TO BE SAME MANUFACTURER.
15. PROVIDE A HYDROSTATIC TEST @ 200 PSI FOR TWO HOURS – PER NFPA 13. COORDINATE WITH AHJ FOR WITNESSING.
16. ALL ABOVEGROUND PIPE 1 1/2" AND SMALLER TO BE THREADED, BLACK STEEL SCHEDULE 40.
17. ALL ABOVEGROUND PIPE 2" AND LARGER MAY BE ROLL GROOVE/ WELDED, BLACK STEEL MINIMUM SCHEDULE 10.
18. CPVC IS PERMITTED WITHIN THE TERMS OF ITS LISTING AND NFPA 13.
19. IF FLEXIBLE PIPING IS USED, SHOP DRAWINGS SHALL CONTAIN COMPLETE INFORMATION TO INCLUDE MANUFACTURER, MODEL, BENDS, FRICTION LOSS AND OTHER PERTINENT DATA FROM MANUFACTURER CLEARLY ANNOTATED ON THE DRAWINGS.
20. SEAL ALL PENETRATIONS TO MATCH CONSTRUCTION AND FIRE RATING. SLEEVE ALL MASONRY PENETRATIONS AND PROVIDE 1" ANNULAR SPACE TO SLEEVE AROUND THE CIRCUMFERENCE OF THE PIPE.
21. PROVIDE FREEZE PROTECTION FOR WET PIPE EXPOSED TO THE EXTERIOR.
22. HANGERS SHALL BE SPACED AND PLACED IN ACCORDANCE WITH NFPA-13.
23. SEISMIC BRACING NOT REQUIRED BASED ON STRUCTURAL ENGINEER'S DETERMINATION OF SEISMIC DESIGN CATEGORY B.
24. PROVIDE INSPECTOR'S TEST LOCATED IN ACCESSIBLE LOCATION WITHIN 7 FEET AFF. CONCEAL CONNECTION WHERE FINISHED WALLS EXIST AND PROVIDE ACCESS DOOR WITH SIGN.
25. ROUTE ALL DRAINS AND TEST CONNECTIONS TO THE EXTERIOR, DISCHARGE WITHIN 1 FOOT OF FINISHED GRADE, PROVIDE SPLASH PADS. DO NOT DISCHARGE ON WALKWAYS.
26. COORDINATE WITH OTHER TRADES TO MAINTAIN REQUIRED CLEARANCES TO OTHER EQUIPMENT.
27. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
28. CONTRACTOR TO COORDINATE ALL TIE INS WITH OWNER. SHUT DOWN OF EXISTING WATER SUPPLY SYSTEM TO BE COORDINATED WITH OWNER AFTER APPROVAL OF AHJ.
29. SPRINKLERS TO BE INSTALLED CENTER TILE IN TWO DIRECTIONS.
30. PROVIDE SPRINKLER GUARDS IN UNFINISHED AREAS WHERE HEADS ARE WITHIN 7 FEET AFF.
31. WITHIN THE LIMITATIONS OF THE LISTING, DRY TYPE HORIZONTAL SIDEWALL SPRINKLERS ARE ACCEPTABLE FOR ANY EXTERIOR PORCHES AND CANOPIES REQUIRED BY NFPA 13 OR AHJ, TYCO SERIES DS-3 OR EQUAL.
32. PROVIDE SPARE HEADS AS REQUIRED BY NFPA 13 WITH A MINIMUM OF 2 PER EACH TYPE INSTALLED. INCLUDE MANUFACTURER'S SPRINKLER WRENCH. STORE IN SPRINKLER HEAD BOX MOUNTED ADJACENT TO THE RISER.
33. ANTI FREEZE SYSTEMS NOT PERMITTED.
34. WORK INCLUDES MARKING PIPING 3 INCHES AND LARGER "FIRE PROTECTION WATER" AND INDICATE DOWNSTREAM FLOW DIRECTION.
35. PROVIDE PRESSURE RELIEF AND AIR VENTS FOR EACH FLOOR SYSTEM.
36. PROJECT INCLUDES CEILING CLOUDS. PROVIDE SPRINKLER PROTECTION PER NFPA 13. PROVIDE DIMENSIONED DETAILS IN PLAN AND SECTION AND REFERENCE SECTION FROM NFPA 13 RELIED ON.
37. PROVIDE PERMANENT MEANS TO FORWARD FLOW TEST BACKFLOW AT SYSTEM DEMAND. PROVIDE MINIMUM OF ONE HOSE VALVE FOR EACH 250 GPM OF SYSTEM DEMAND.



- SPRINKLER RISER KEYNOTES:**
- ① RISER CHECK VALVE
 - ② VANE TYPE WATER FLOW SWITCH
 - ③ DRAIN TO EXTERIOR
 - ④ U.G. 6"
 - ⑤ SWING CHECK VALVE
 - ⑥ GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH
 - ⑦ PEDESTAL SUPPORTS, AS REQUIRED
 - ⑧ FLUSH MOUNTED WALL FDC
 - ⑨ 2 1/2" HOSE VALVE

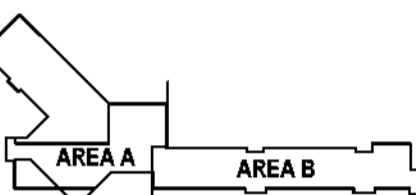


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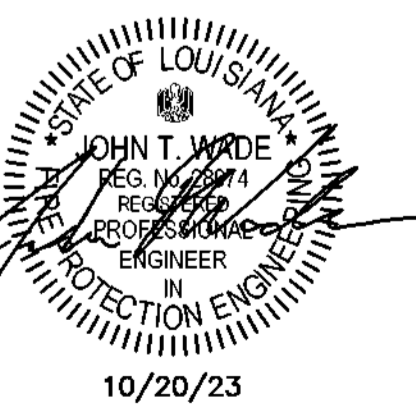
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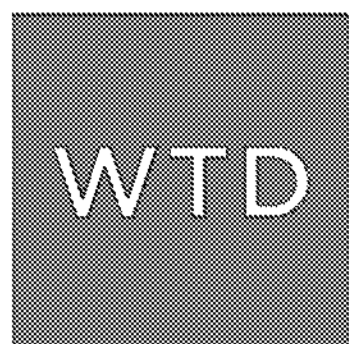


Professional Seal
 Scale: **(not to scale)**
 SNI Description:
Fire Protection Notes



FP0.01
 North

HAZARD SYMBOLS	
SYMBOL	DESCRIPTION
	LH - 0.1 GPM/SF OVER 1,500 SF WITH 100 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS FOR PENDENTS IN FINISHED CEILINGS AND BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING
	OH1 - 0.15 GPM/SF OVER 1,500 SF WITH 250 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS IN FINISHED CEILINGS; BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING
	OH2 - 0.2 GPM/SF OVER 1,500 SF WITH 250 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS IN FINISHED CEILINGS; BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING

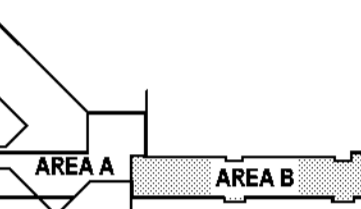


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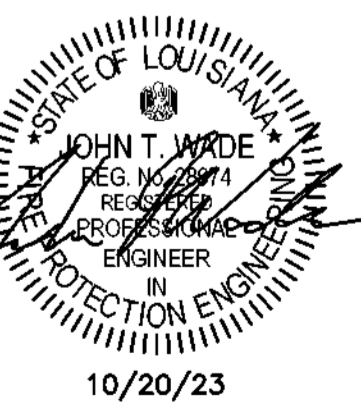
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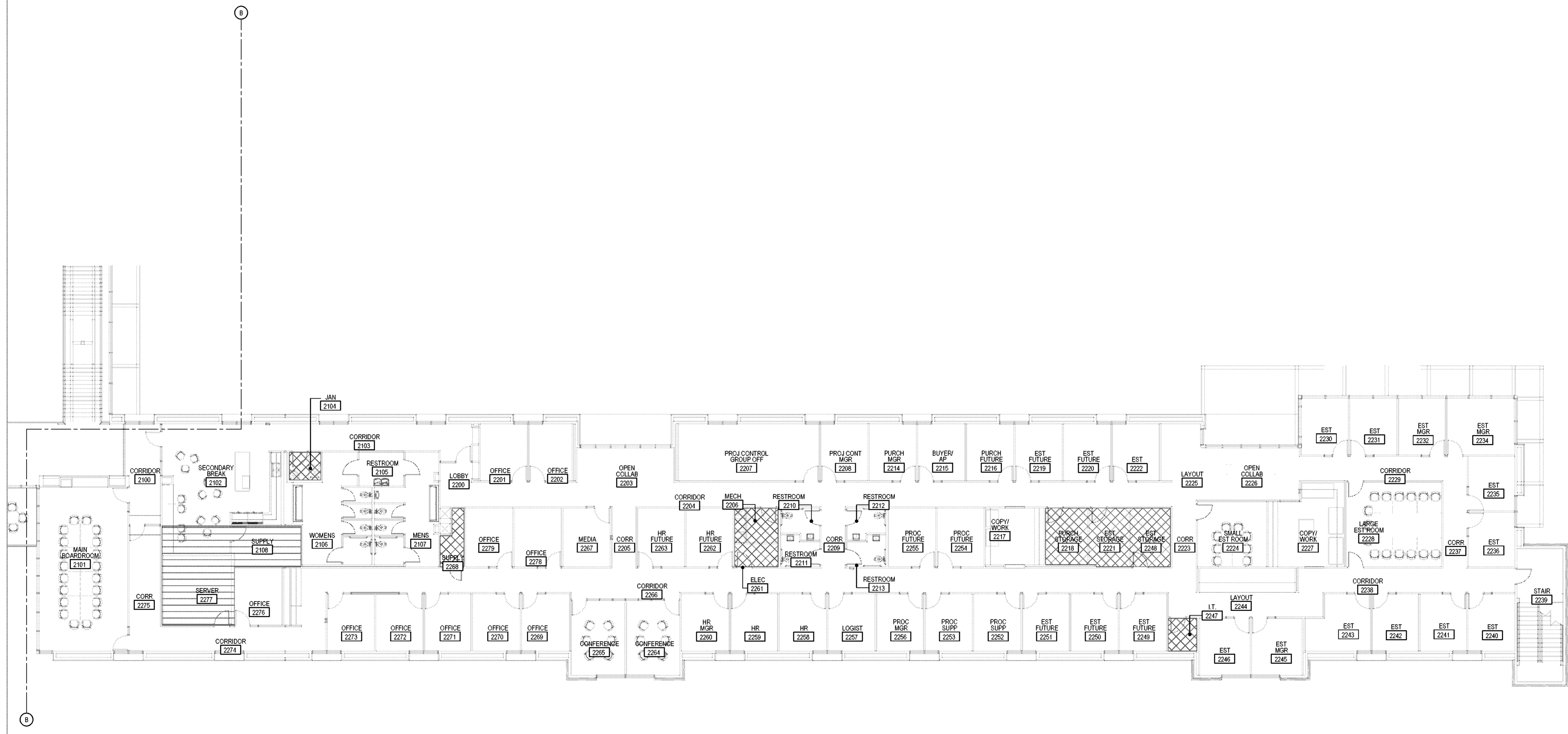
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 SNI Description:
Second Floor Fire Protection
 Plan Sheet 2 of 2



FP 1.22
 North



Second Floor Fire Protection Plan
 Scale: 3/32" = 1'-0"

LEGEND	
SYMBOL	COMPONENT DESCRIPTION
	TAMPER SWITCH
	24 VOLT ELECTRIC WEATHER PROOF BELL
	MONITOR MODULE
	SURGE SUPPRESSOR

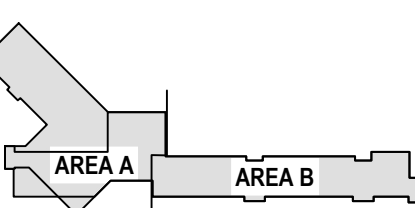


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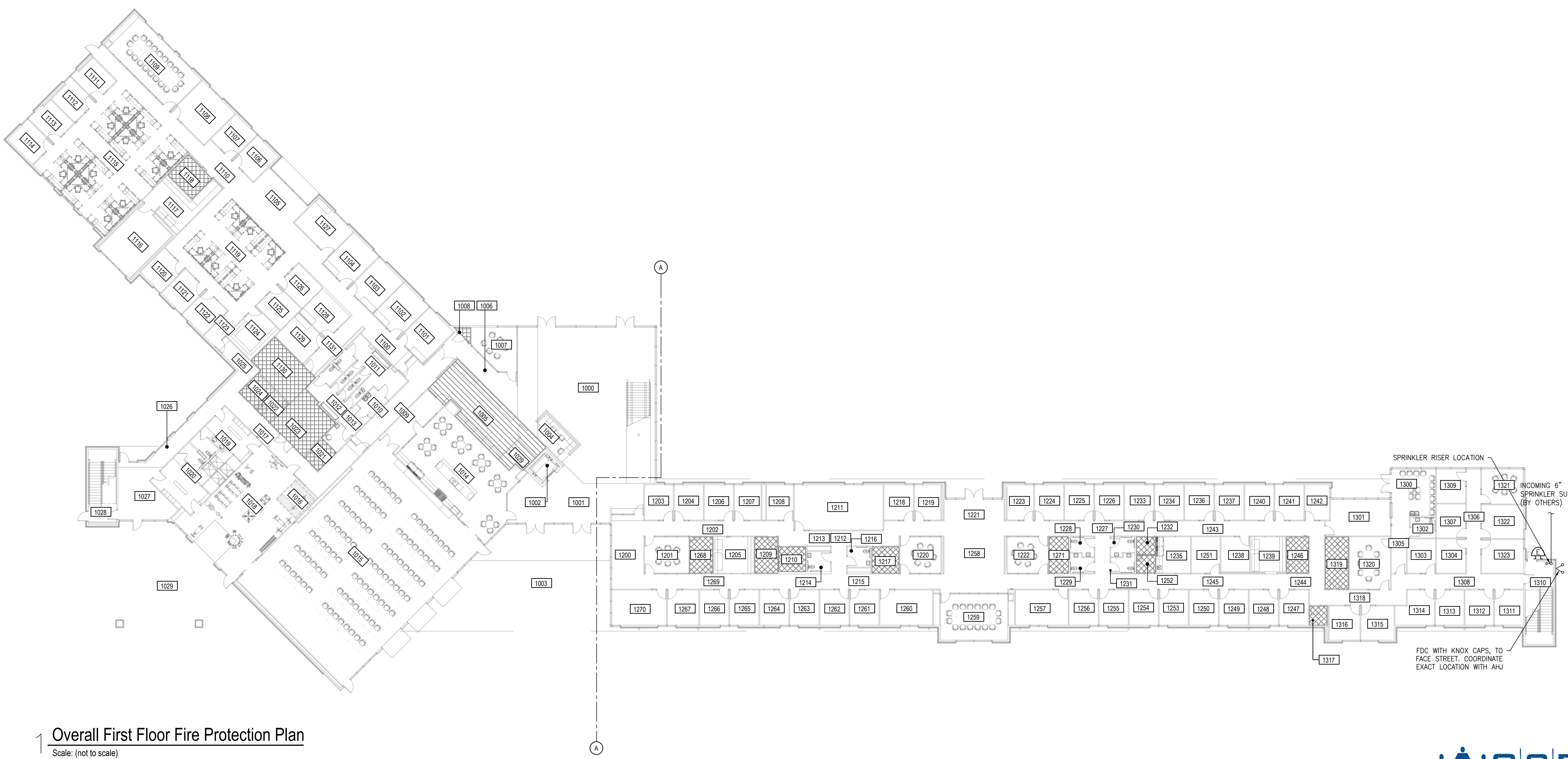
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 Date: 10-26-23
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Overall First Floor Fire Protection Plan

FP 1.10
 North

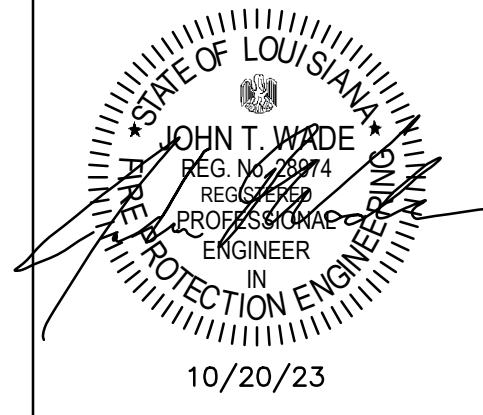


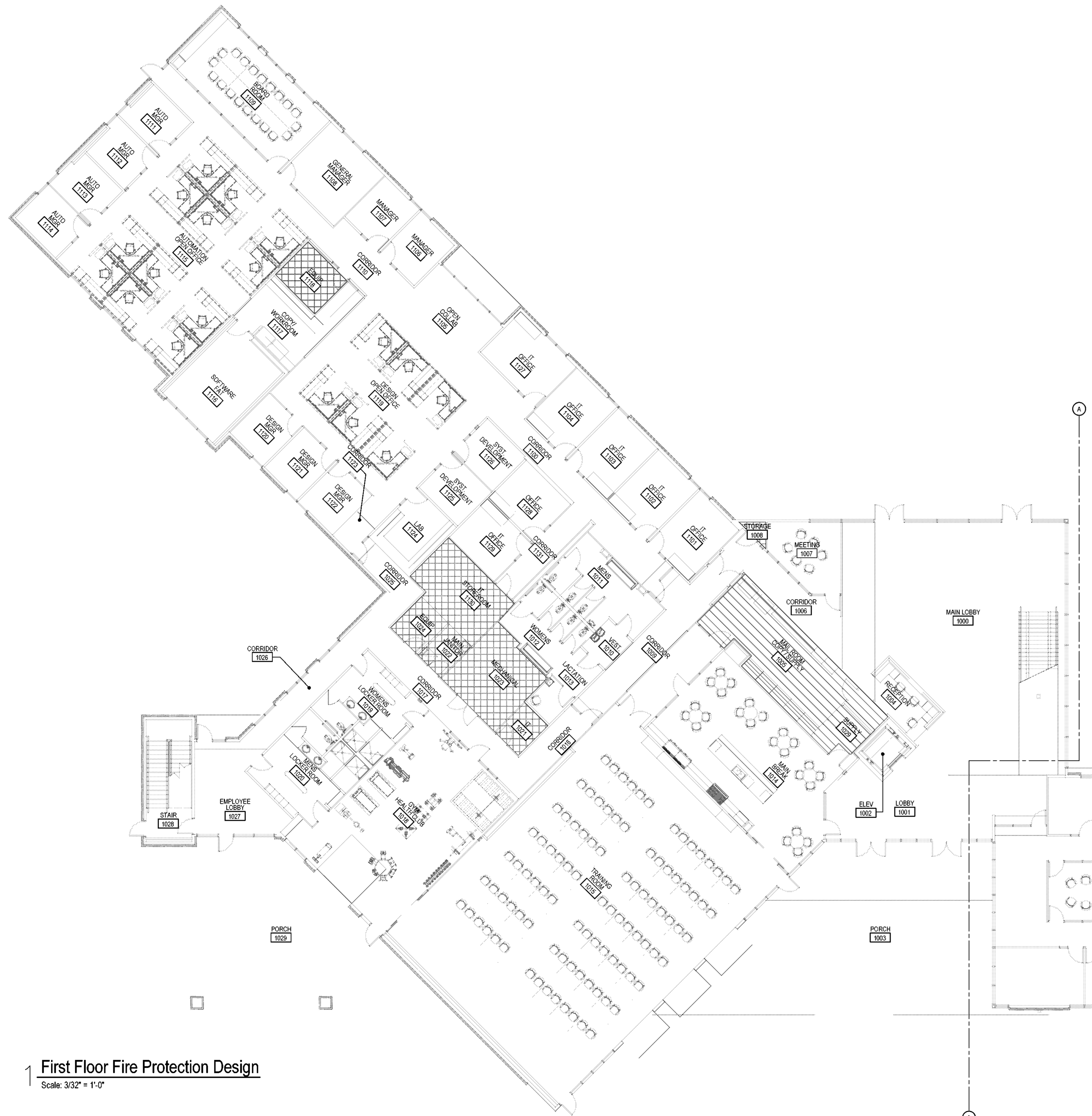
Overall First Floor Fire Protection Plan
 Scale: (not to scale)

SPRINKLER RISER LOCATION
 INCOMING 6" SPRINKLER SUPPLY (BY OTHERS)
 FDC WITH KNOX CAPS, TO FACE STREET. COORDINATE EXACT LOCATION WITH AHJ



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 1818 Pass Road, Gulfport, MS 39501 228-864-5050(T)

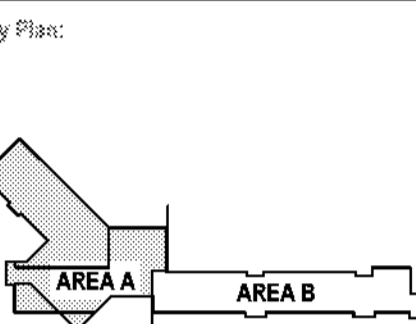




HAZARD SYMBOLS	
SYMBOL	DESCRIPTION
	LH - 0.1 GPM/SF OVER 1,500 SF WITH 100 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS FOR PENDENTS IN FINISHED CEILINGS AND BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING
	OH1 - 0.15 GPM/SF OVER 1,500 SF WITH 250 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS IN FINISHED CEILINGS; BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING
	OH2 - 0.2 GPM/SF OVER 1,500 SF WITH 250 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS IN FINISHED CEILINGS; BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING

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STATE OF LOUISIANA
 JOHN T. WATKINS
 REGISTERED PROFESSIONAL ENGINEER
 IN PROTECTION ENGINEERING
 10/20/23

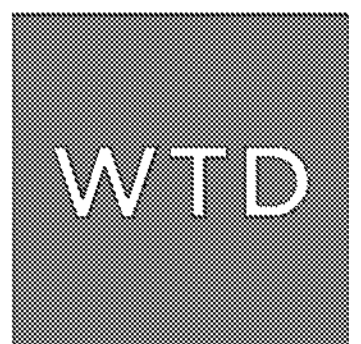
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 SNI Description:
 First Floor Fire Protection
 Design Sheet 1 of 2

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1 First Floor Fire Protection Design
 Scale: 3/32" = 1'-0"

FP1.11
 North

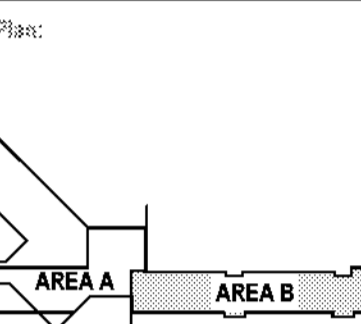
HAZARD SYMBOLS	
SYMBOL	DESCRIPTION
	LH - 0.1 GPM/SF OVER 1,500 SF WITH 100 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS FOR PENDENTS IN FINISHED CEILINGS AND BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING
	OH1 - 0.15 GPM/SF OVER 1,500 SF WITH 250 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS IN FINISHED CEILINGS; BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING
	OH2 - 0.2 GPM/SF OVER 1,500 SF WITH 250 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS IN FINISHED CEILINGS; BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING



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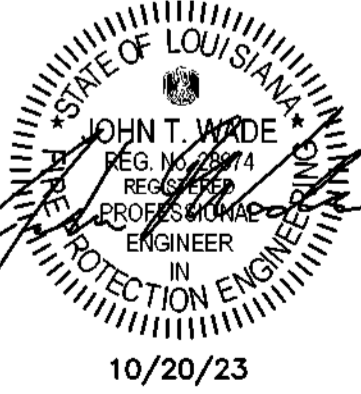
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Consultants:

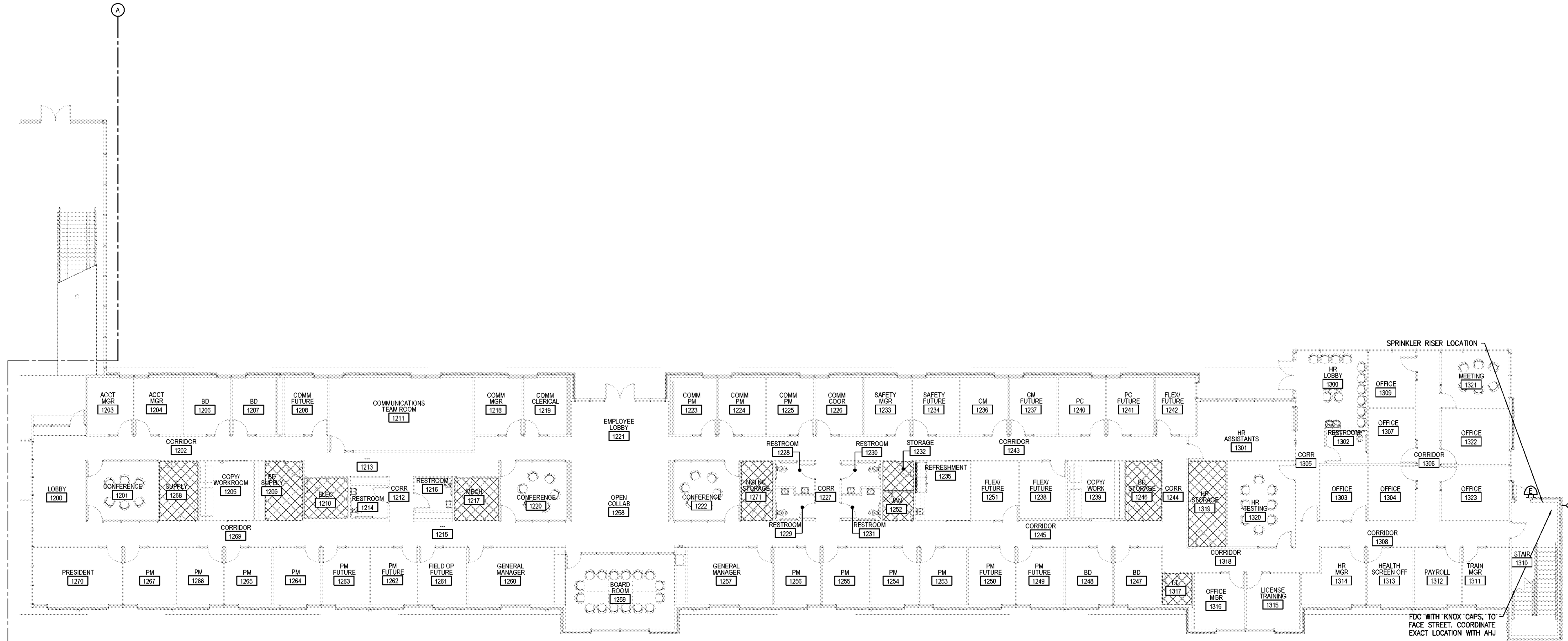
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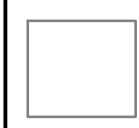
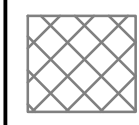

Professional Seal
 Scale: 3/32" = 1'-0"
 SNI Description:
First Floor Fire Protection Design Sheet 2 of 2

FP1.12



1 First Floor Fire Protection Plan
 Scale: 3/32" = 1'-0"



HAZARD SYMBOLS	
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	LH - 0.1 GPM/SF OVER 1,500 SF WITH 100 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS FOR PENDENTS IN FINISHED CEILINGS AND BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING
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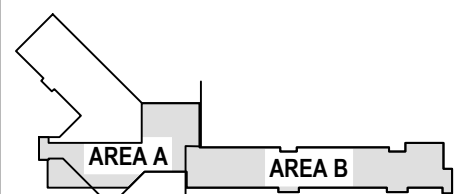


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Key Plan:

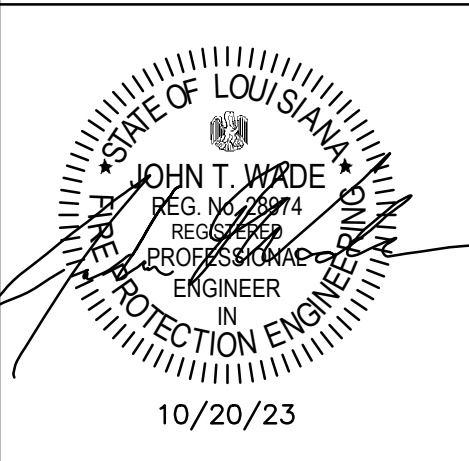


Consultants:

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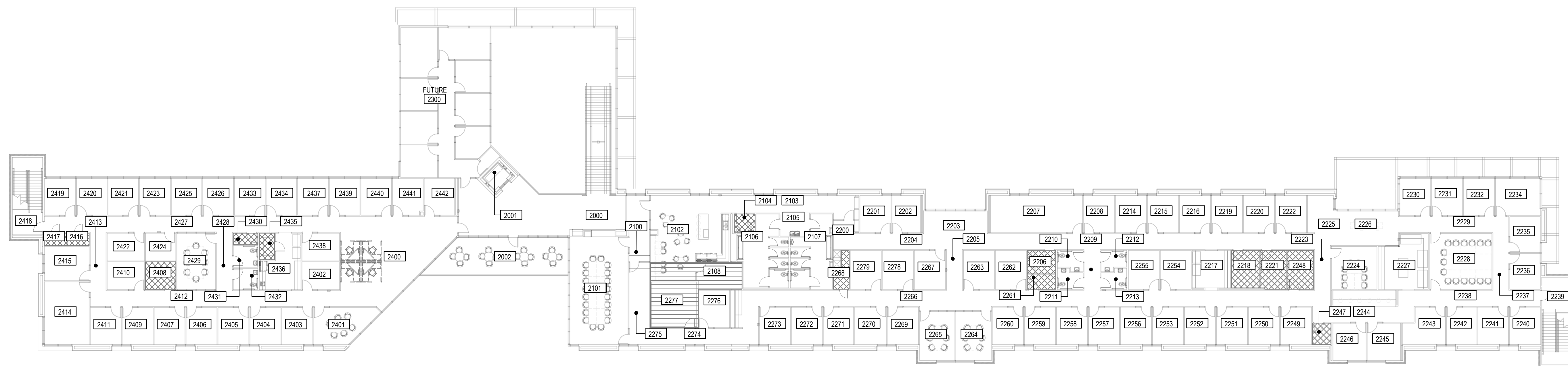
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Professional Seal
 Scale: (not to scale)
 SHT Description:
Overall Second Floor Fire Protection Plan

North
 FP 1.20

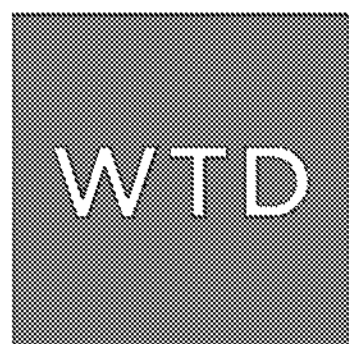


1 Overall Second Floor Fire Protection Plan
 Scale: (not to scale)



1818 Pass Road, Gulfport, MS 39501 228-864-5050(T)

HAZARD SYMBOLS	
SYMBOL	DESCRIPTION
	LH - 0.1 GPM/SF OVER 1,500 SF WITH 100 GPM HOSE. ORDINARY TEMPERATURE; GLASS BULB; SEMI RECESSED; CHROME HEADS WITH CHROME ESCUTCHEONS FOR PENDENTS IN FINISHED CEILINGS AND BRASS UPRIGHTS IN UNFINISHED CEILINGS; SPACING PER NFPA 13 OR LISTING
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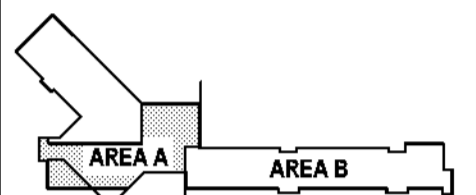


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Key Plan:



Consultants:

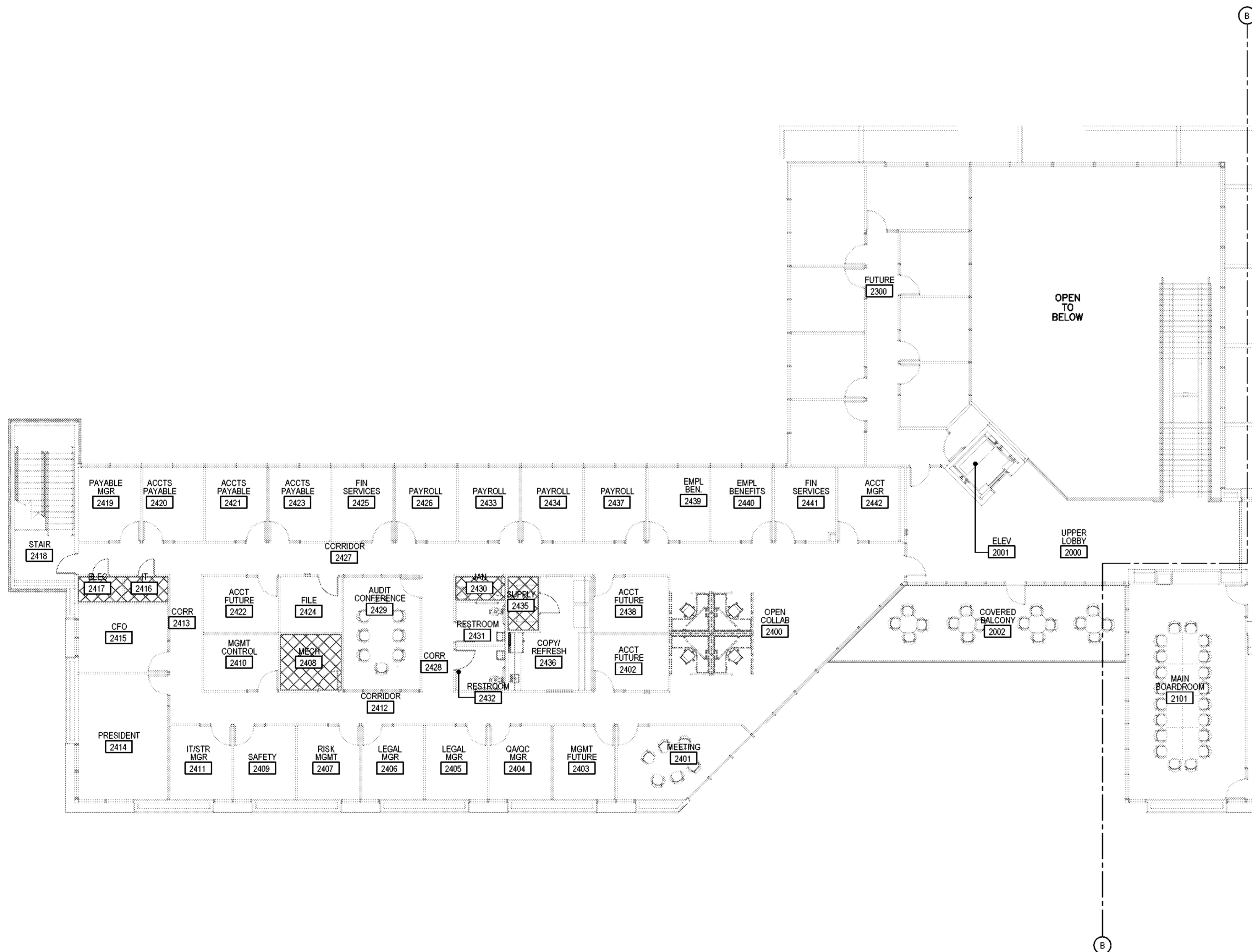
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 SNI Description:
Second Floor Fire Protection
 Plan Sheet 1 of 2

North



Scale: 3/32" = 1'-0"
Second Floor Fire Protection Plan



FP1.21

FIRE ALARM NOTES

- CONTRACTOR SHALL PROVIDE A NEW ADDRESSABLE SUPERVISING STATION MANUAL FIRE ALARM SYSTEM THROUGHOUT THE BUILDING AS INDICATED ON THE PLANS. WORK INCLUDES SUPERVISION OF THE AREA OF RESCUE POWER SUPPLY.
- THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS IS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
- SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT THE FIRE PROTECTION ENGINEER IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
- CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN FULL COMPLIANCE WITH SECTION 7.4 OF THE 2019 EDITION OF NFPA 72 TO THE ENGINEER OF RECORD PRIOR TO SUBMITTING FOR A PERMIT. THIS INCLUDES BATTERY BACK UP AND VOLTAGE DROP CALCULATIONS. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.
- UPDATE THE AS-BUILT DRAWINGS DAILY WITH THE JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO THE GENERAL CONTRACTOR NO LATER THAN 7 DAYS AFTER THE SUCCESSFUL FINAL TEST.
- THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMANLIKE MANNER.
- DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED TECHNICAL REPRESENTATIVE.
- ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.
- THE FIRE ALARM INSTALLER WILL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ANY TIME THAT WORK IS NOT ACTIVELY BEING PERFORMED.
- INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND NEC.
- ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC) AND BE CONSISTENT THROUGHOUT THE SYSTEM.
- FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPROPRIATE SECTION OF THE NEC 760. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH NEC 760 SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE.
- FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.
- FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN SHAFTS SHALL BE TYPE FPLR.
- FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT, OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS. DIRECT BURY NOT PERMITTED.
- FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUNNING OUTDOOR SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 725, AND 800 WHERE APPLICABLE.
- ALL WIRING INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AND AT FULL LENGTH OF THE WIRE.
- ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
- 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
- MAINTAIN 40 PERCENT CONDUIT FILL RATIOS AS PER NEC REQUIREMENTS.
- PROVIDE SOLID CONDUCTORS PULLED SPLICE FREE AND TERMINATED AT DEVICES OR PANELS ON SCREW TERMINALS. WHERE DEVICES ARE SUPPLIED WITH STRANDED WIRE, PROVIDE BLADE STYLE CONNECTIONS ON STRANDED WIRES AND CONNECT TO SYSTEM WIRING WITH SCREW TERMINALS.
- ALL WIRING TO BE RUN IN MINIMUM 3/4 INCH CONDUIT WITH A FACTORY APPLIED RED FINISH.
- PROVIDE A MINIMUM OF 50% SPARE CAPACITY ON THE SLC AND THE NAC'S.
- QUANTITY OF POWER SUPPLIES TO BE DETERMINED BY CONTRACTOR. COORDINATE LOCATION WITH OWNER. INSTALL WITHIN ENVIRONMENTAL LIMITATIONS. INCLUDE SMOKE DETECTOR ABOVE EACH PANEL.
- DUCT DETECTORS TO BE MOUNTED BELOW RTU'S IN ABOVE CEILING SPACES. PROVIDE REMOTE TEST AND RESET SWITCHES ON WALL BELOW UNIT MARKED WITH UNIT NUMBER.

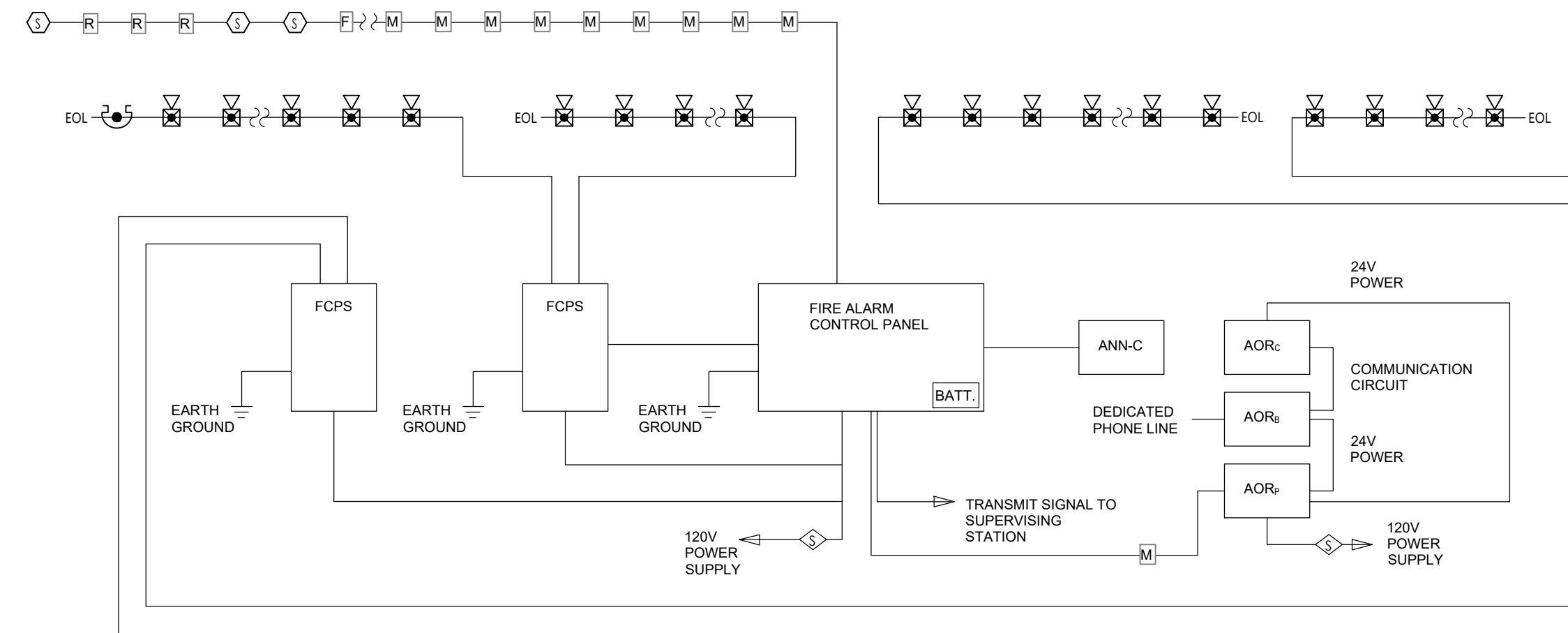
28. PROVIDE DUCT DETECTORS AND RELAYS FOR FIRE RATED SMOKE DAMPERS AT LOCATIONS INDICATED ON THE PLANS. SMOKE DAMPERS TO CLOSE ONLY UPON ACTIVATION OF DUCT DETECTORS SERVING THAT OPENING. COORDINATE INSTALLATION AND CONTROL WITH OTHER TRADES.

AREA OF RESCUE GENERAL NOTES

- CONTRACTOR SHALL PROVIDE AN AREA OF RESCUE IN THE BUILDING MEETING REQUIREMENTS OF SECTION 1009.8 IN THE INTERNATIONAL BUILDING CODE 2021 EDITION AND SECTION 7.2.12.1 OF THE LIFE SAFETY CODE 2018 EDITION.
- THE SYSTEM SHALL INCLUDE A CALL STATION ON THE SECOND FLOOR AT THE ELEVATOR LANDING, A BASE STATION IN THE LOBBY OF THE FIRST FLOOR, AND A POWER SUPPLY IN THE FIRST FLOOR ELECTRICAL ROOM.
- THE POWER FOR THE SYSTEM SHALL BE SUPERVISED FOR LOSS OF POWER BY THE FIRE ALARM SYSTEM IN THE BUILDING.
- WHEN THE 2ND FLOOR CALL BOX IS ACTIVATED, IT IS TO CONNECT WITH THE FIRST FLOOR BASE STATION. IF NO ANSWER IS RECEIVED AT THE BASE STATION AFTER 30 SECONDS, THE CALL SHALL IMMEDIATELY BE FORWARDED TO THE 911 CALL CENTER.
- SIGNAGE SHALL BE INCLUDED WITH DIRECTIONS ON USE AND THE FACILITY NAME AND ADDRESS ADJACENT TO THE CALL BOX AND BASE STATION.
- ALL WIRING FOR THE SYSTEM SHALL BE INSTALLED IN CONDUIT.

FIRE ALARM LEGEND

- (SD) CEILING MOUNTED SMOKE DETECTOR
- (SD) AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS S=SUPPLY, R=RETURN
- (H) HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (S) STROBE 15cd UNLESS OTHERWISE NOTED
- (H)C CEILING HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (S)C CEILING STROBE 15cd UNLESS OTHERWISE NOTED
- (F) FLUSH MOUNTED PULL STATION
- (M) MONITOR MODULE
- (R) RELAY MODULE
- (WF) WATER FLOW SWITCH
- (SS) SURGE SUPPRESSOR
- (TS) TAMPER SWITCH
- (FACP) FIRE ALARM CONTROL PANEL
- (ANN) FIRE ALARM REMOTE ANNUCIATOR
- (FCPS) FIELD CHARGING POWER SUPPLY
- (K) KEY-BOX
- (WB) 24V WATERFLOW BELL
- (AOR_c) AREA OF RESCUE CALL BOX
- (AOR_b) AREA OF RESCUE BASE STATION
- (AOR_p) AREA OF RESCUE POWER SUPPLY
- (TEMP) TEMPERATURE SENSOR OF BACKFLOW ENCLOSURE



ALARM RISER

NONE ①

	SYSTEM INPUTS													SYSTEM OUTPUTS			
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
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16																	
17																	

ALARM MATRIX

NONE ②

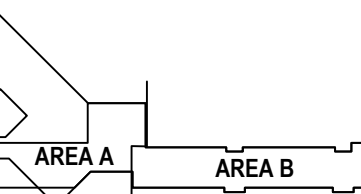


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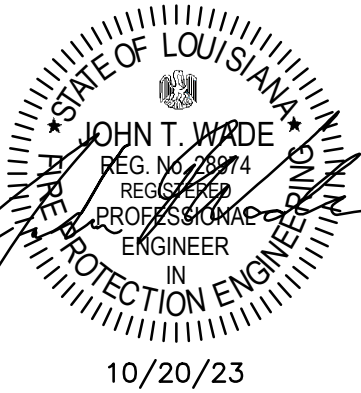


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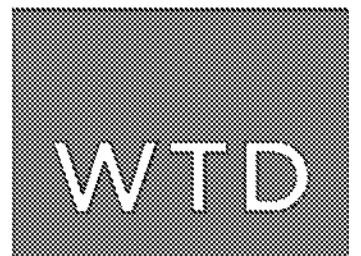


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Fire Alarm Notes



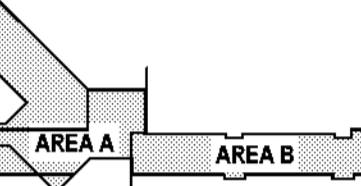
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Key Plan:



Consultants:



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Gulfport Mobile Nashville
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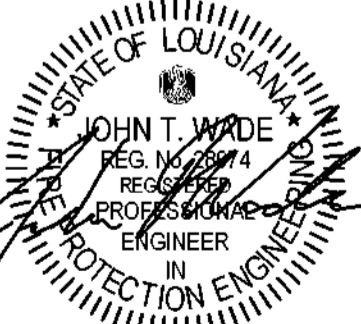
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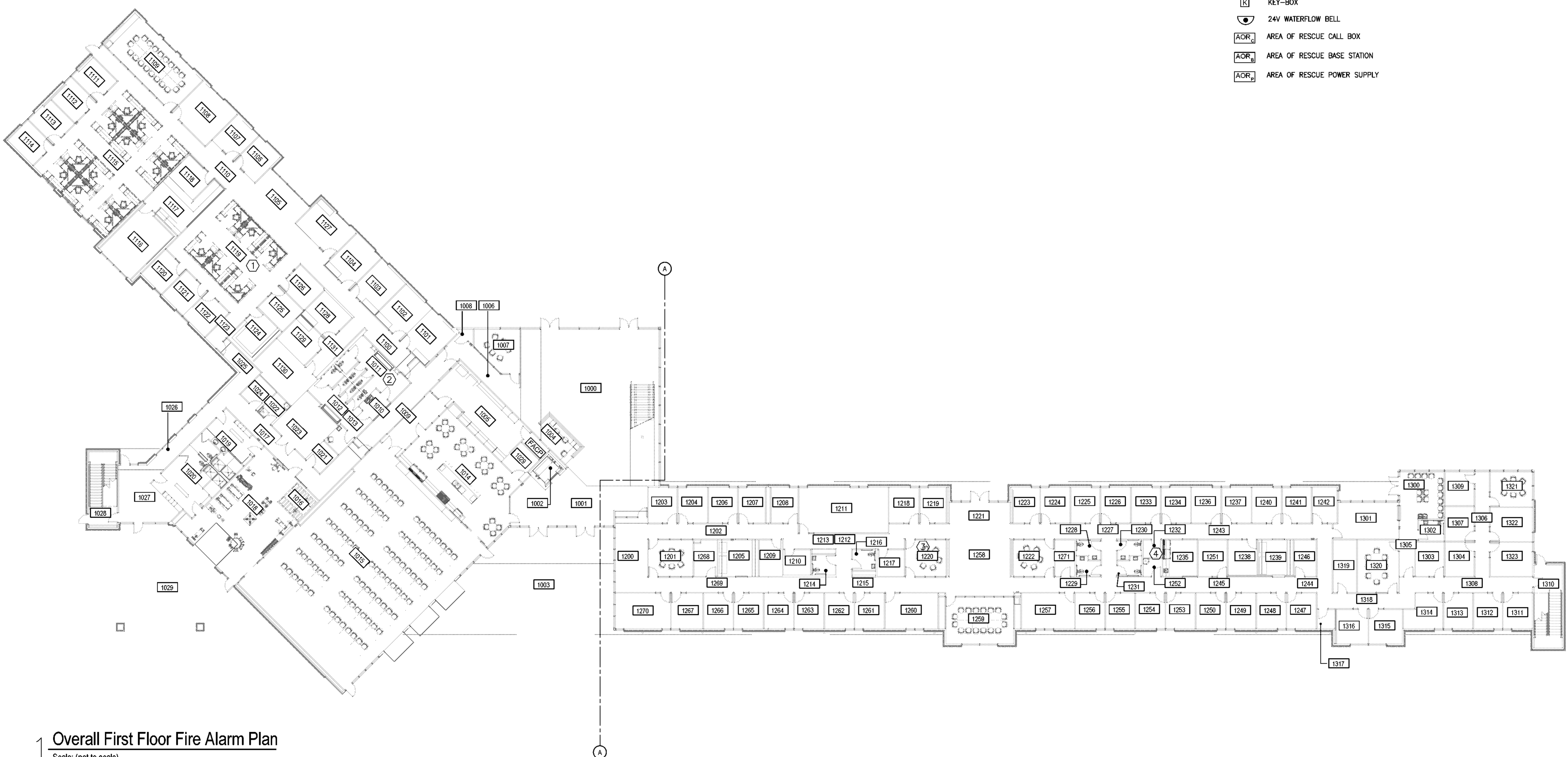
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**Overall First Floor
Fire Alarm Plan**

North **FA1.10**

FIRE ALARM LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS
S=SUPPLY, R=RETURN
- HORN STROBE 15cd UNLESS OTHERWISE NOTED
- STROBE 15cd UNLESS OTHERWISE NOTED
- CEILING HORN STROBE 15cd UNLESS OTHERWISE NOTED
- CEILING STROBE 15cd UNLESS OTHERWISE NOTED
- FLUSH MOUNTED PULL STATION
- MONITOR MODULE
- RELAY MODULE
- WATER FLOW SWITCH
- SURGE SUPPRESSOR
- TAMPER SWITCH
- FIRE ALARM CONTROL PANEL
- FIRE ALARM REMOTE ANNUCIATOR
- FIELD CHARGING POWER SUPPLY
- KEY-BOX
- 24V WATERFLOW BELL
- AREA OF RESCUE CALL BOX
- AREA OF RESCUE BASE STATION
- AREA OF RESCUE POWER SUPPLY



Overall First Floor Fire Alarm Plan
Scale: (not to scale)



FIRE ALARM LEGEND

- ⊙ SD CEILING MOUNTED SMOKE DETECTOR
- ⊙- SD AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS
- ⊠ S HORN STROBE 15cd UNLESS OTHERWISE NOTED
- ⊠ S STROBE 15cd UNLESS OTHERWISE NOTED
- ⊠ S C CEILING HORN STROBE 15cd UNLESS OTHERWISE NOTED
- ⊠ S C CEILING STROBE 15cd UNLESS OTHERWISE NOTED
- F FLUSH MOUNTED PULL STATION
- M MONITOR MODULE
- R RELAY MODULE
- WF WATER FLOW SWITCH
- SS SURGE SUPPRESSOR
- TS TAMPER SWITCH
- FACP FIRE ALARM CONTROL PANEL
- ANN FIRE ALARM REMOTE ANNUCIATOR
- FCPS FIELD CHARGING POWER SUPPLY
- K KEY-BOX
- 24V WATERFLOW BELL
- AOR AREA OF RESCUE CALL BOX
- AOR AREA OF RESCUE BASE STATION
- AOR AREA OF RESCUE POWER SUPPLY
- FSD FIRE SMOKE DAMPER

- ELEVATOR CONTROLS**
- R PRIMARY RECALL
 - R SECONDARY RECALL
 - R SHUNT TRIP
 - R FIRE HAT.

1 First Floor Fire Alarm Design
Scale: 3/32" = 1'-0"

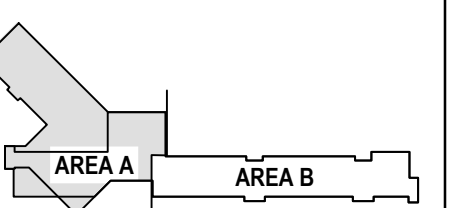


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Key Plan:



Consultants:



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STATE OF LOUISIANA
JOHN T. WADE
REG. NO. 10874
PROFESSIONAL
ENGINEER
IN
PROTECTION ENGINEERING
10/20/23

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Scale: 3/32" = 1'-0"
Sht Description:
First Floor Fire Alarm
Design Sheet 1 of 2

North
FA1.11

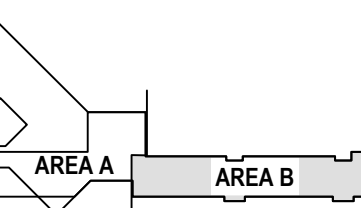


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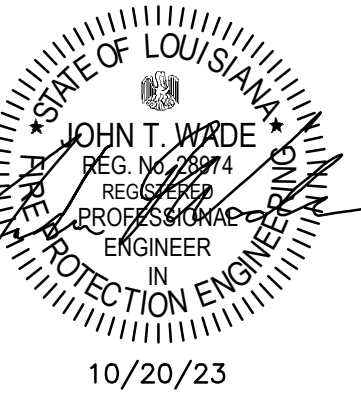
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Professional Seal
 Scale: 3/32" = 1'-0"
 Sht Description:
First Floor Fire Alarm
 Design Sheet 2 of 2

North
 FA1.12

FIRE ALARM LEGEND

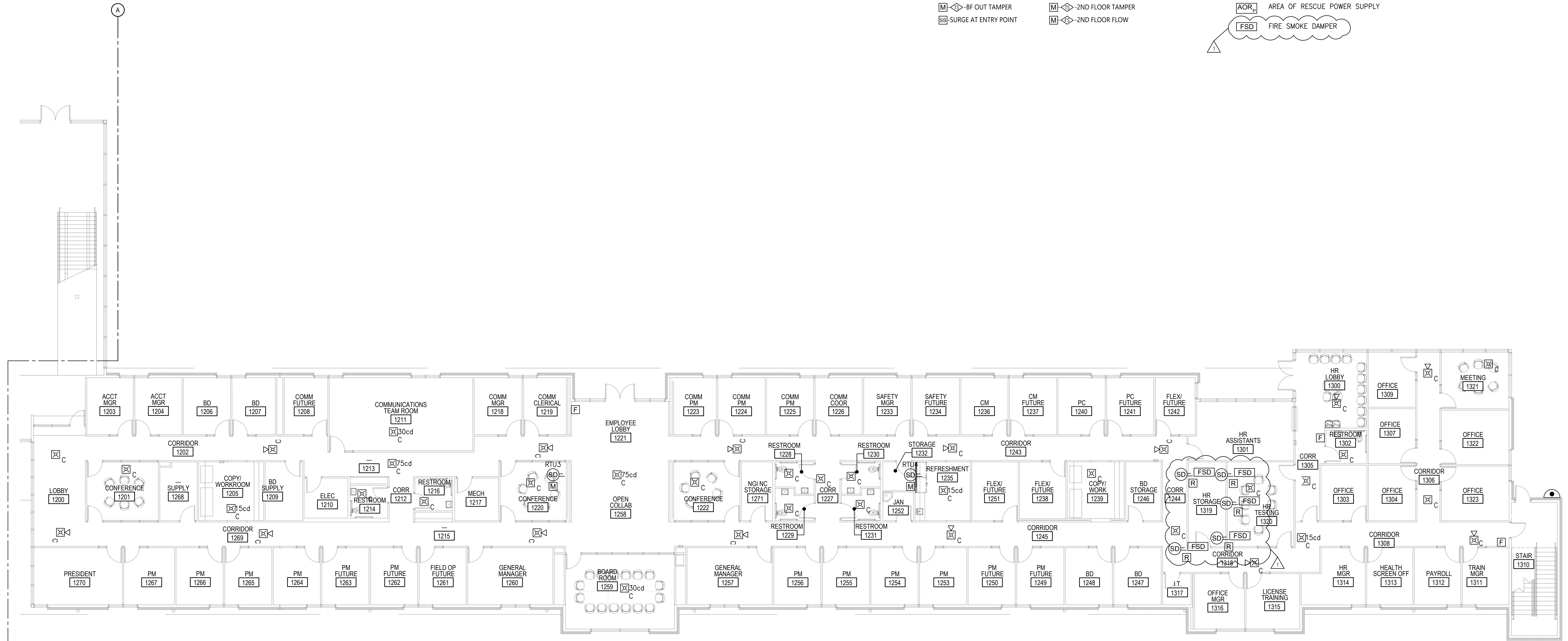
- (SD) CEILING MOUNTED SMOKE DETECTOR
- (SD)- AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS
S=SUPPLY, R=RETURN
- (X) HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (X) STROBE 15cd UNLESS OTHERWISE NOTED
- (X)C CEILING HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (X)C CEILING STROBE 15cd UNLESS OTHERWISE NOTED
- (F) FLUSH MOUNTED PULL STATION
- (M) MONITOR MODULE
- (R) RELAY MODULE
- (WF) WATER FLOW SWITCH
- (SS) SURGE SUPPRESSOR
- (TS) TAMPER SWITCH
- (FACP) FIRE ALARM CONTROL PANEL
- (ANN) FIRE ALARM REMOTE ANNUCIATOR
- (FCPS) FIELD CHARGING POWER SUPPLY
- (K) KEY-BOX
- (B) 24V WATERFLOW BELL
- (AOR) AREA OF RESCUE CALL BOX
- (AOR) AREA OF RESCUE BASE STATION
- (AOR) AREA OF RESCUE POWER SUPPLY
- (FSD) FIRE SMOKE DAMPER

BACKFLOW LOCATION

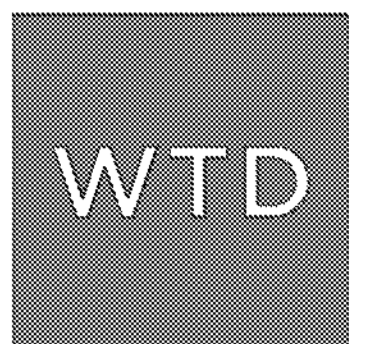
- (M) TEMP BF ENCLOSURE
- (M) BF IN TAMPER
- (M) BF OUT TAMPER
- (SS) SURGE AT ENTRY POINT

RISER ROOM

- (M) -1ST FLOOR TAMPER
- (M) -1ST FLOOR FLOW
- (M) -2ND FLOOR TAMPER
- (M) -2ND FLOOR FLOW



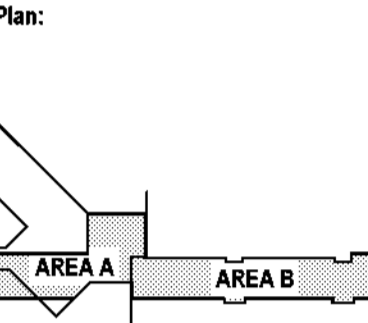
1 First Floor Fire Alarm Plan
 Scale: 3/32" = 1'-0"



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 Baton Rouge, LA 70817

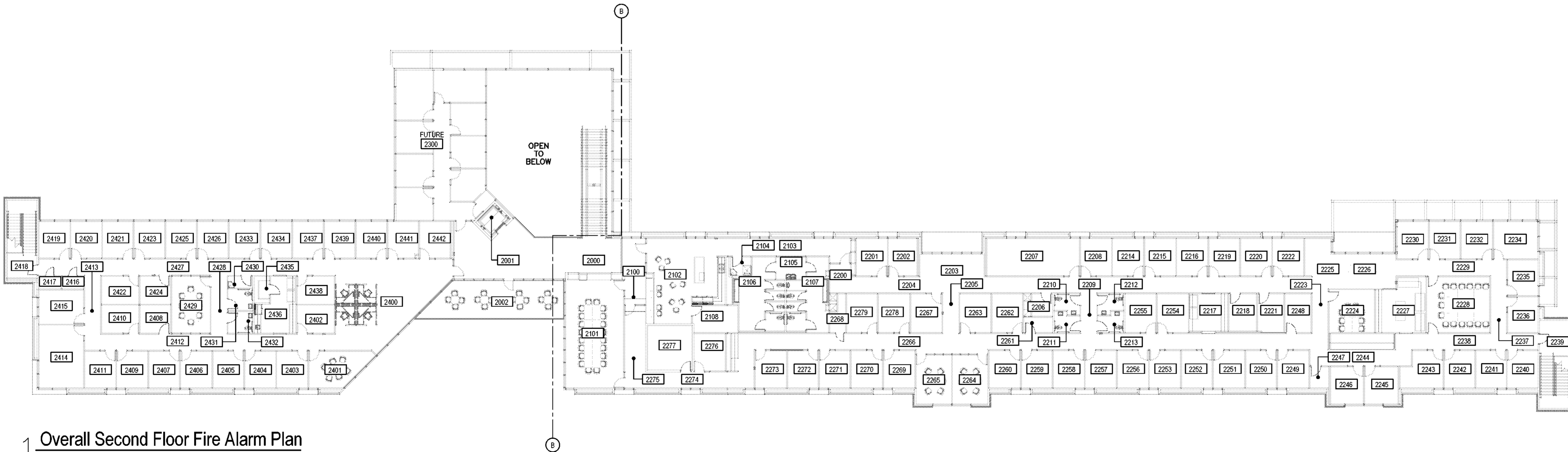
Phase: Bid Documents
 Date: 10-26-23
 Revisions:

Professional Seal
 Scale: (not to scale)
 SM Description:
Overall Second Floor Fire Alarm Plan

North
FA1.20

FIRE ALARM LEGEND

- CEILING MOUNTED SMOKE DETECTOR
- AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS
S=SUPPLY, R=RETURN
- HORN STROBE 15cd UNLESS OTHERWISE NOTED
- STROBE 15cd UNLESS OTHERWISE NOTED
- CEILING HORN STROBE 15cd UNLESS OTHERWISE NOTED
- CEILING STROBE 15cd UNLESS OTHERWISE NOTED
- FLUSH MOUNTED PULL STATION
- MONITOR MODULE
- RELAY MODULE
- WATER FLOW SWITCH
- SURGE SUPPRESSOR
- TAMPERS SWITCH
- FIRE ALARM CONTROL PANEL
- FIRE ALARM REMOTE ANNUCIATOR
- FIELD CHARGING POWER SUPPLY
- KEY-BOX
- 24V WATERFLOW BELL
- AREA OF RESCUE CALL BOX
- AREA OF RESCUE BASE STATION
- AREA OF RESCUE POWER SUPPLY



Overall Second Floor Fire Alarm Plan
 Scale: (not to scale)

FIRE ALARM LEGEND

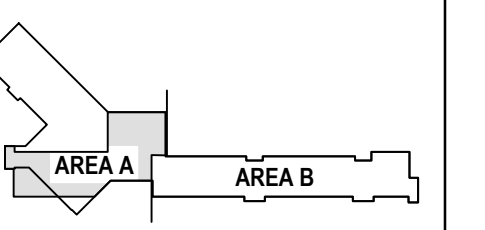
- (SD) CEILING MOUNTED SMOKE DETECTOR
- (SD)- AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS
S=SUPPLY, R=RETURN
- (H) HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (S) STROBE 15cd UNLESS OTHERWISE NOTED
- (H)C CEILING HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (S)C CEILING STROBE 15cd UNLESS OTHERWISE NOTED
- (F) FLUSH MOUNTED PULL STATION
- (M) MONITOR MODULE
- (R) RELAY MODULE
- (WF) WATER FLOW SWITCH
- (SS) SURGE SUPPRESSOR
- (TS) TAMPER SWITCH
- (FACP) FIRE ALARM CONTROL PANEL
- (ANN) FIRE ALARM REMOTE ANNUCIATOR
- (FCPS) FIELD CHARGING POWER SUPPLY
- (K) KEY-BOX
- (WB) 24V WATERFLOW BELL
- (AOR) AREA OF RESCUE CALL BOX
- (AOR) AREA OF RESCUE BASE STATION
- (AOR) AREA OF RESCUE POWER SUPPLY
- (FSD) FIRE SMOKE DAMPER



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Key Plan:



Consultants:

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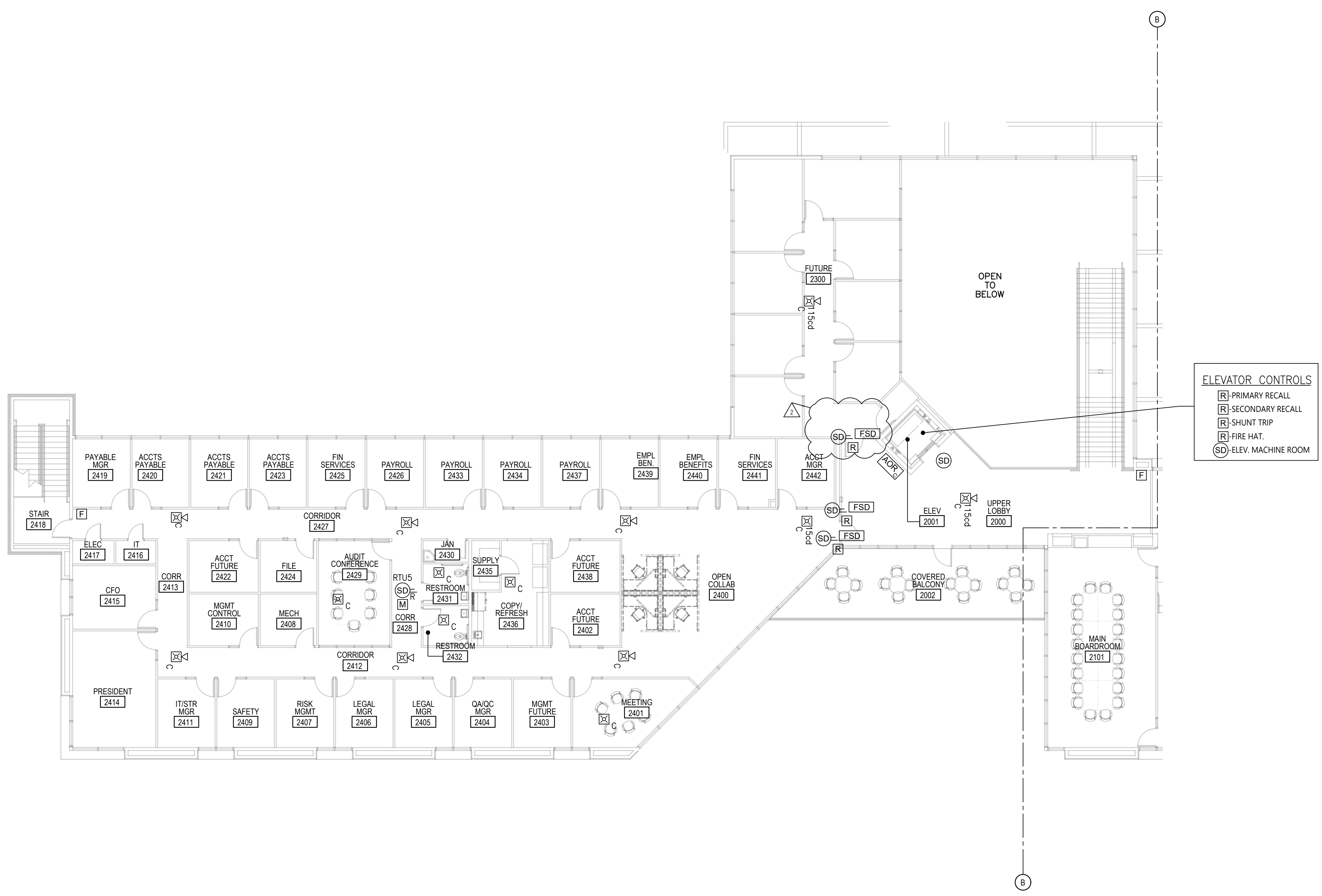
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Phase: Bid Documents
Date: 10-26-23
Revisions:
PERMIT REVISIONS 4.1.24
PERMIT REVISIONS 4.15.24

STATE OF LOUISIANA
JOHN T. WADE
REG. NO. 114
PROFESSIONAL ENGINEER
IN
PROTECTION ENGINEERING
10/20/23

Professional Seal
Scale: 3/32" = 1'-0"
Sht Description:
Second Floor Fire Alarm
Plan Sheet 1 of 2

North
FA1.21



1 Second Floor Fire Alarm Plan
Scale: 3/32" = 1'-0"



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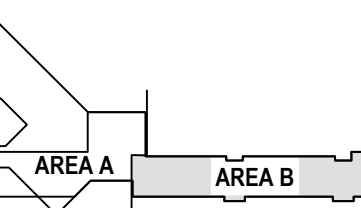
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Key Plan:



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Phase: Bid Documents
Date: 10-26-23
Revisions:
PERMIT REVISIONS 4.15.24

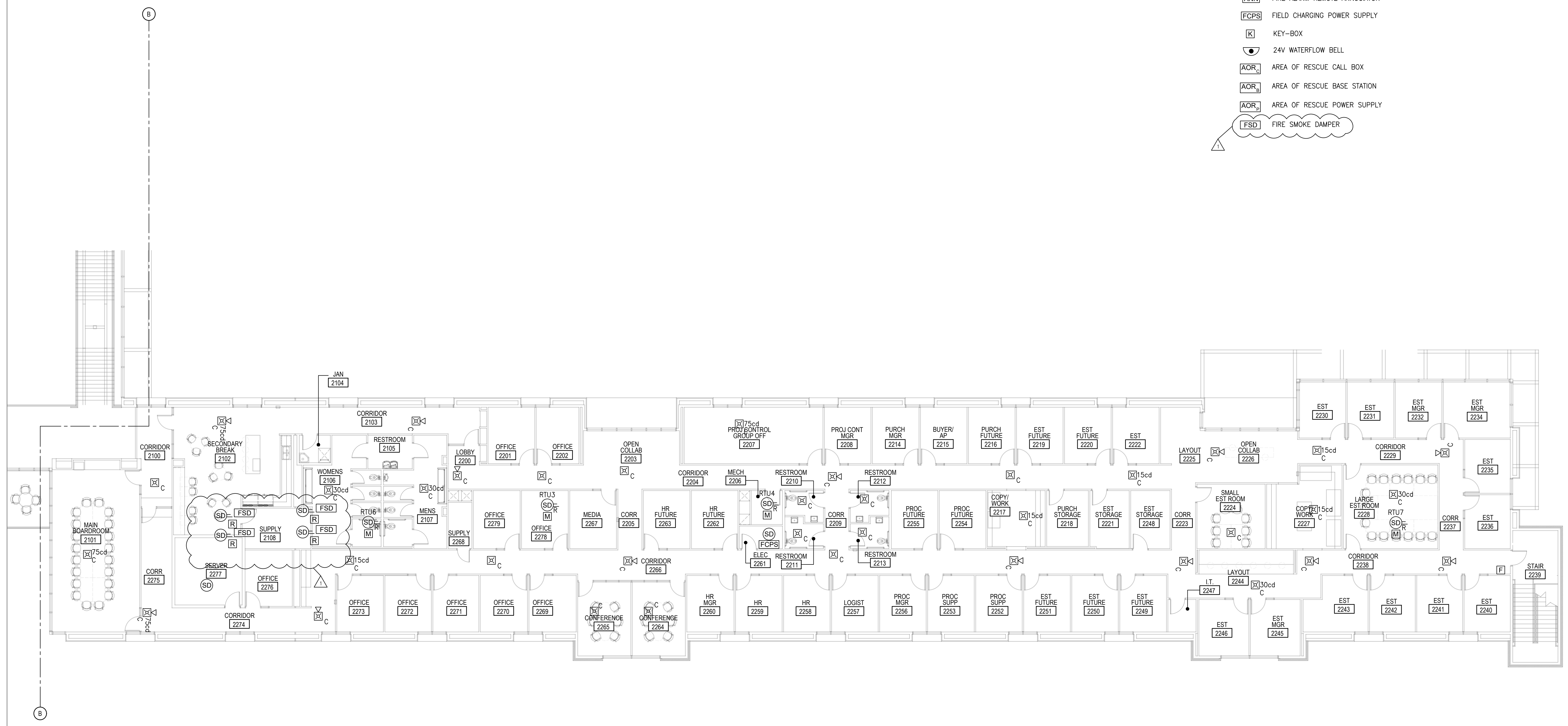
STATE OF LOUISIANA
JOHN T. WARD
REG. NO. 22774
PROF. ENGINEER
IN
FIRE PROTECTION ENGINEERING
10/20/23

Professional Seal
Scale: 3/32" = 1'-0"
Sheet Description:
Second Floor Fire Alarm
Plan Sheet 2 of 2

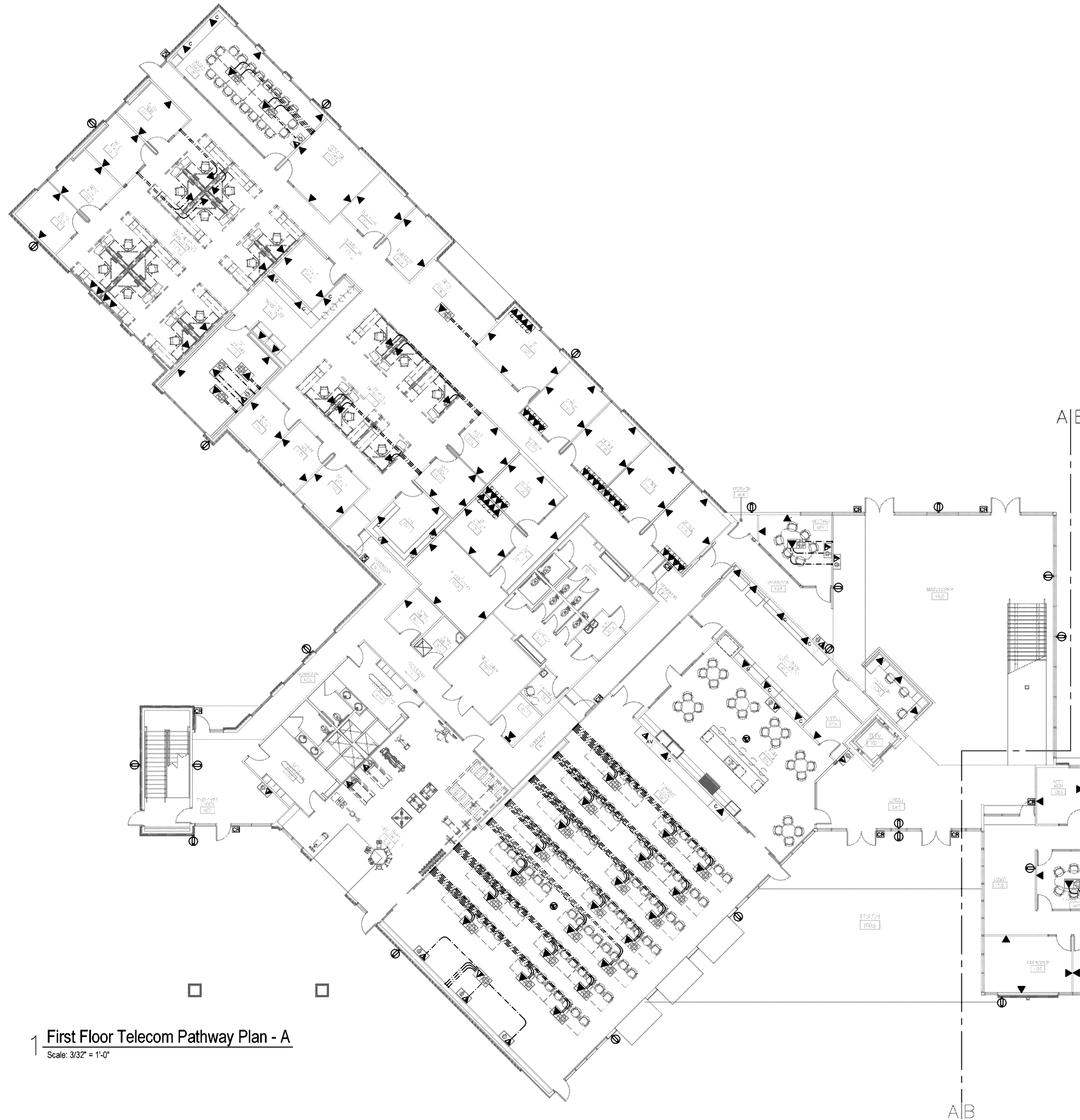
North
FA1.22

FIRE ALARM LEGEND

- (SD) CEILING MOUNTED SMOKE DETECTOR
- (SD-R) AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS
S=SUPPLY, R=RETURN
- (X) HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (X) STROBE 15cd UNLESS OTHERWISE NOTED
- (X)C CEILING HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (X)C CEILING STROBE 15cd UNLESS OTHERWISE NOTED
- (F) FLUSH MOUNTED PULL STATION
- (M) MONITOR MODULE
- (R) RELAY MODULE
- (WF) WATER FLOW SWITCH
- (SS) SURGE SUPPRESSOR
- (TS) TAMPER SWITCH
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- (ANN) FIRE ALARM REMOTE ANNUCIATOR
- (FCPS) FIELD CHARGING POWER SUPPLY
- (K) KEY-BOX
- (WB) 24V WATERFLOW BELL
- (AOR) AREA OF RESCUE CALL BOX
- (AOR) AREA OF RESCUE BASE STATION
- (AOR) AREA OF RESCUE POWER SUPPLY
- (FSD) FIRE SMOKE DAMPER



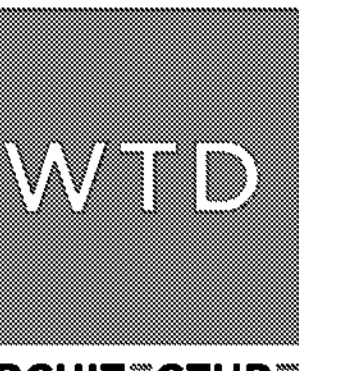
Second Floor Fire Alarm Plan
Scale: 3/32" = 1'-0"



NETWORK SYMBOLS

- ▼ DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING. C = ABOVE COUNTER.
- ▼ TELECOMMUNICATIONS FLOOR BOX, MOUNTED FLUSH IN FINISHED FLOOR. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING AND CONNECTION TO WALLBOX AS REQUIRED.
- ▼ TELECOMMUNICATIONS/POWER/AV WALL BOX, MOUNTED FLUSH IN WALL AT 84" AFF UNLESS OTHERWISE NOTED. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING AS SHOWN ON DETAILS SHEET. PROVIDE 1" CONDUIT CONNECTION TO FLOORBOX OR AV/DATA WALL OUTLET LOCATION.
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- ▼ AV/DATA OUTLET, MOUNTED FLUSH IN FINISHED CEILING. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING.
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- ▣ CARD READER LOCATION. PROVIDE BACKBOX AND CONDUIT PATHWAYS AS SHOWN ON DETAILS SHEET.
- MASTER DOOR CONTROLLER LOCATION.
- ⊕ SECURITY CAMERA LOCATION. PROVIDE BACKBOX AND CONDUIT TO ABOVE ACCESSIBLE CEILING.
- 1" UNDERGROUND/EMBEDDED CONDUIT, UNLESS OTHERWISE NOTED.
- 4" CONDUIT ABOVE CEILING, UNLESS OTHERWISE NOTED.

NOTE:
COORDINATE ALL POWER AND DATA RECEPTACLES LOCATIONS AND HEIGHTS, ON WALLS AND FLOORS, WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. FIELD VERIFY.

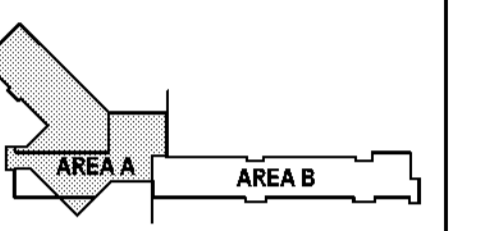


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Key Plan:



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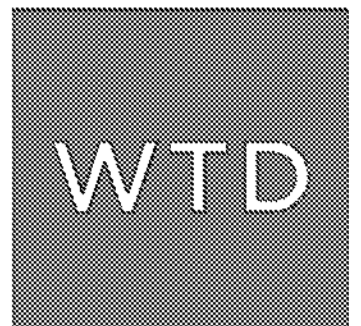
Phase: Bid Documents
Date: 10-26-23

Revisions:



Professional Seal
Scale: 3/32" = 1'-0"
SMT Description:
First Floor Telecom Pathway Plan - A
Sheet 1 of 2

1 First Floor Telecom Pathway Plan - A
Scale: 3/32" = 1'-0"



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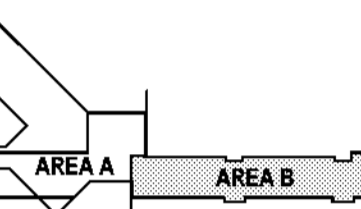
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Key Plan:



Consultants:



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Phase: Bid Documents

Date: 10-26-23

Revisions:



Professional Seal

Scale: 3/32" = 1'-0"

Sheet Description:

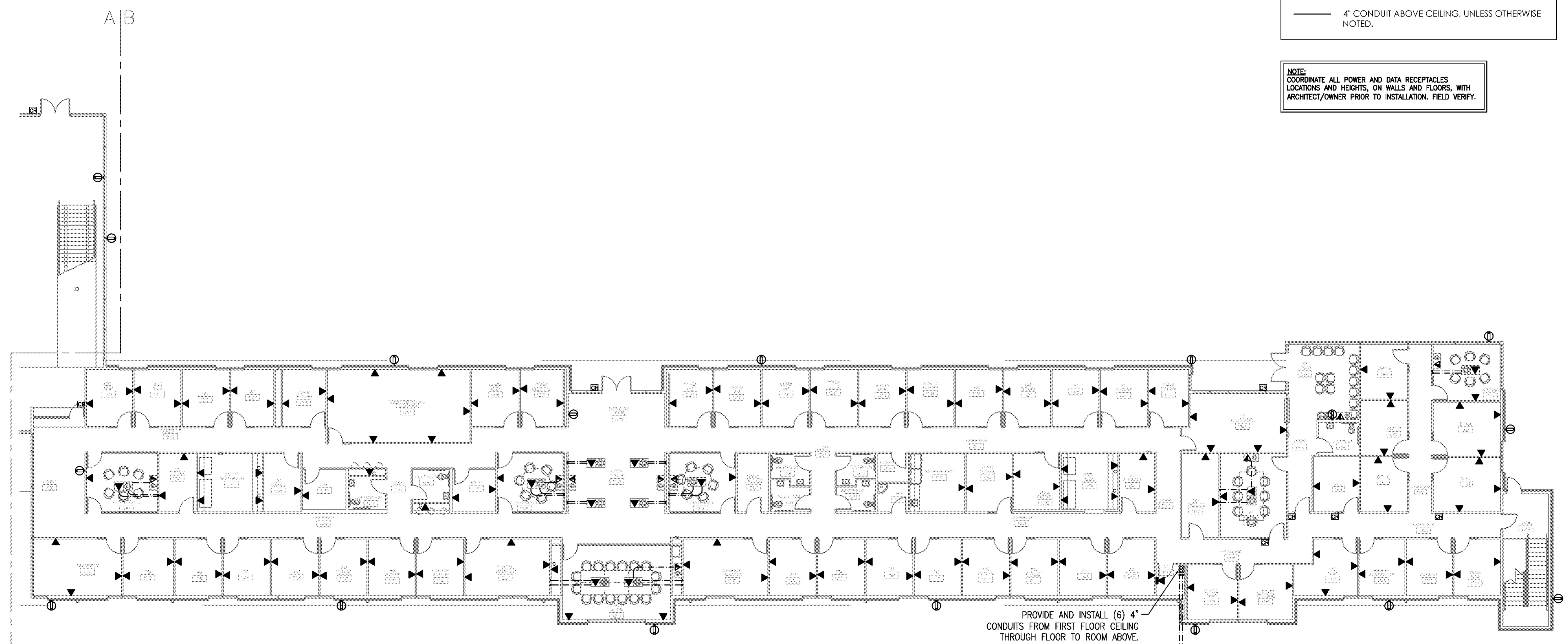
First Floor Telecom Pathway
Plan - B Sheet 2 of 2

North T1.12

NETWORK SYMBOLS

- ▼ DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING. C = ABOVE COUNTER.
- ▼ TELECOMMUNICATIONS FLOOR BOX, MOUNTED FLUSH IN FINISHED FLOOR. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING AND CONNECTION TO WALLBOX AS REQUIRED.
- ▼ TELECOMMUNICATIONS/POWER/AV WALL BOX, MOUNTED FLUSH IN WALL AT 84" AFF UNLESS OTHERWISE NOTED. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING AS SHOWN ON DETAILS SHEET. PROVIDE 1" CONDUIT CONNECTION TO FLOORBOX OR AV/DATA WALL OUTLET LOCATION.
- ▼ AV/DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING.
- ▼ AV/DATA OUTLET, MOUNTED FLUSH IN FINISHED CEILING. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING.
- ▢ CABLE TRAY, 6" WIDE BY 4" HIGH. ALL CABLE TRAYS TO BE RUN ABOVE CEILING.
- ▢ CARD READER LOCATION. PROVIDE BACKBOX AND CONDUIT PATHWAYS AS SHOWN ON DETAILS SHEET.
- ▢ MASTER DOOR CONTROLLER LOCATION.
- ⊖ SECURITY CAMERA LOCATION. PROVIDE BACKBOX AND CONDUIT TO ABOVE ACCESSIBLE CEILING.
- 1" UNDERGROUND/EMBEDDED CONDUIT, UNLESS OTHERWISE NOTED.
- 4" CONDUIT ABOVE CEILING, UNLESS OTHERWISE NOTED.

NOTE:
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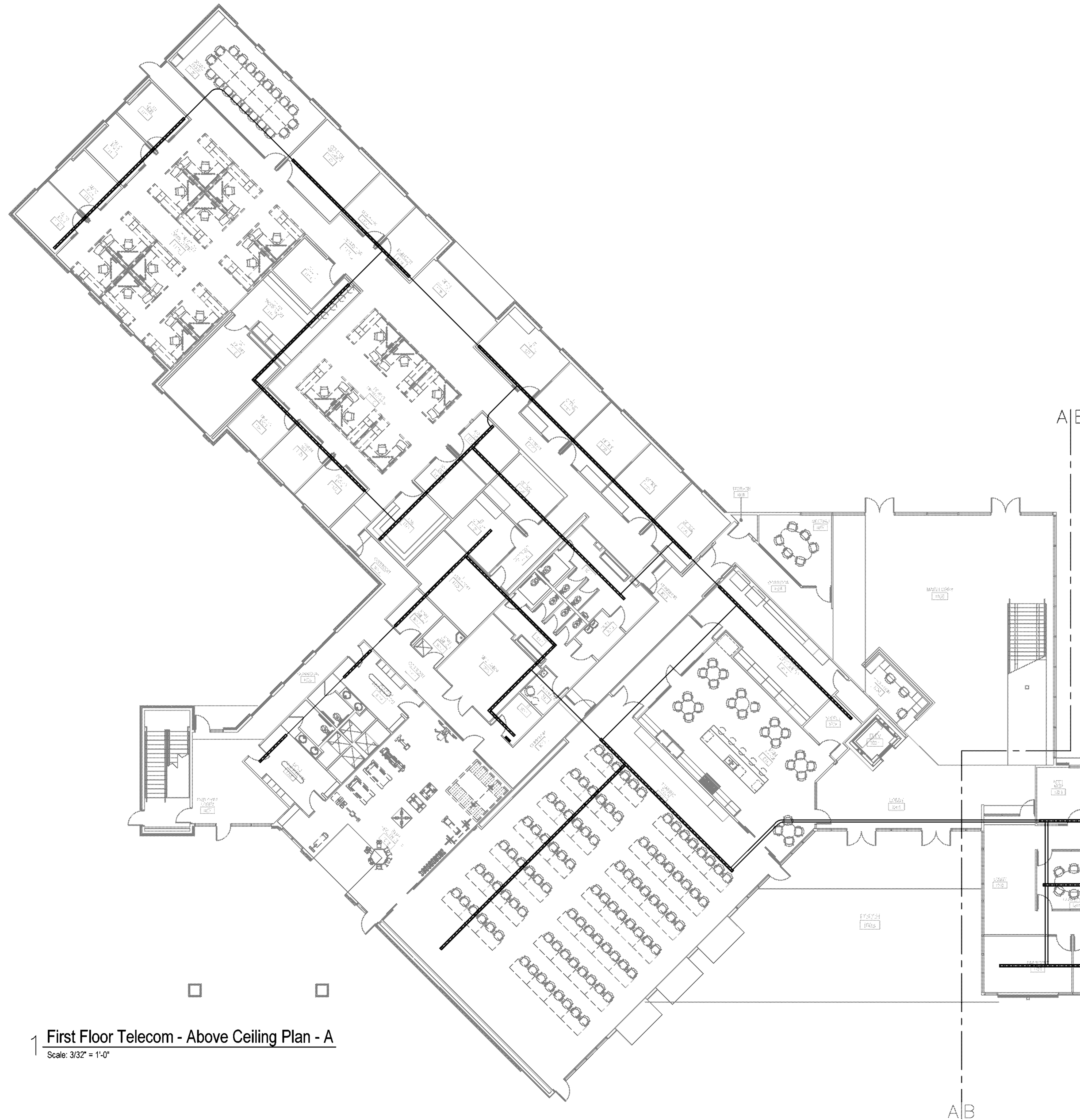


PROVIDE AND INSTALL (6) 4" CONDUITS FROM FIRST FLOOR CEILING THROUGH FLOOR TO ROOM ABOVE.

PROVIDE AND INSTALL (2) 4" CONDUITS FROM IT 1317 TO 5 FEET OUTSIDE BUILDING FOR INCOMING SERVICE PROVIDER.

1 First Floor Telecom Pathway Plan - B
Scale: 3/32" = 1'-0"

AB



NETWORK SYMBOLS

- ▼ DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING. C = ABOVE COUNTER.
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NOTE:
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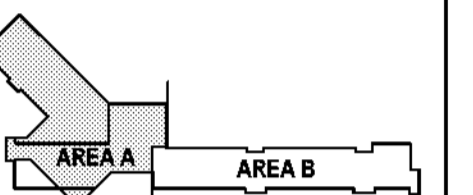
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Key Plan:



Consultants:



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Date: 10-26-23

Revisions:



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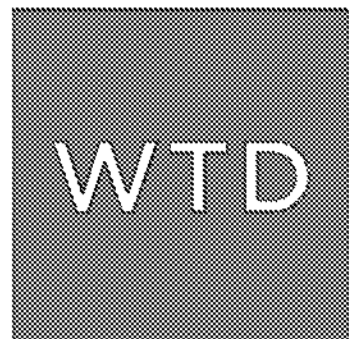
SHI Description:

First Floor Telecom - Above Ceiling Plan - A
Sheet 1 of 2

North T1.13

1 First Floor Telecom - Above Ceiling Plan - A

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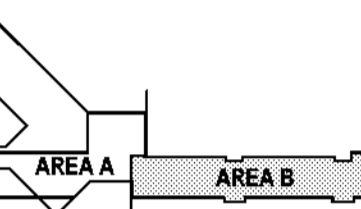


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Revisions:



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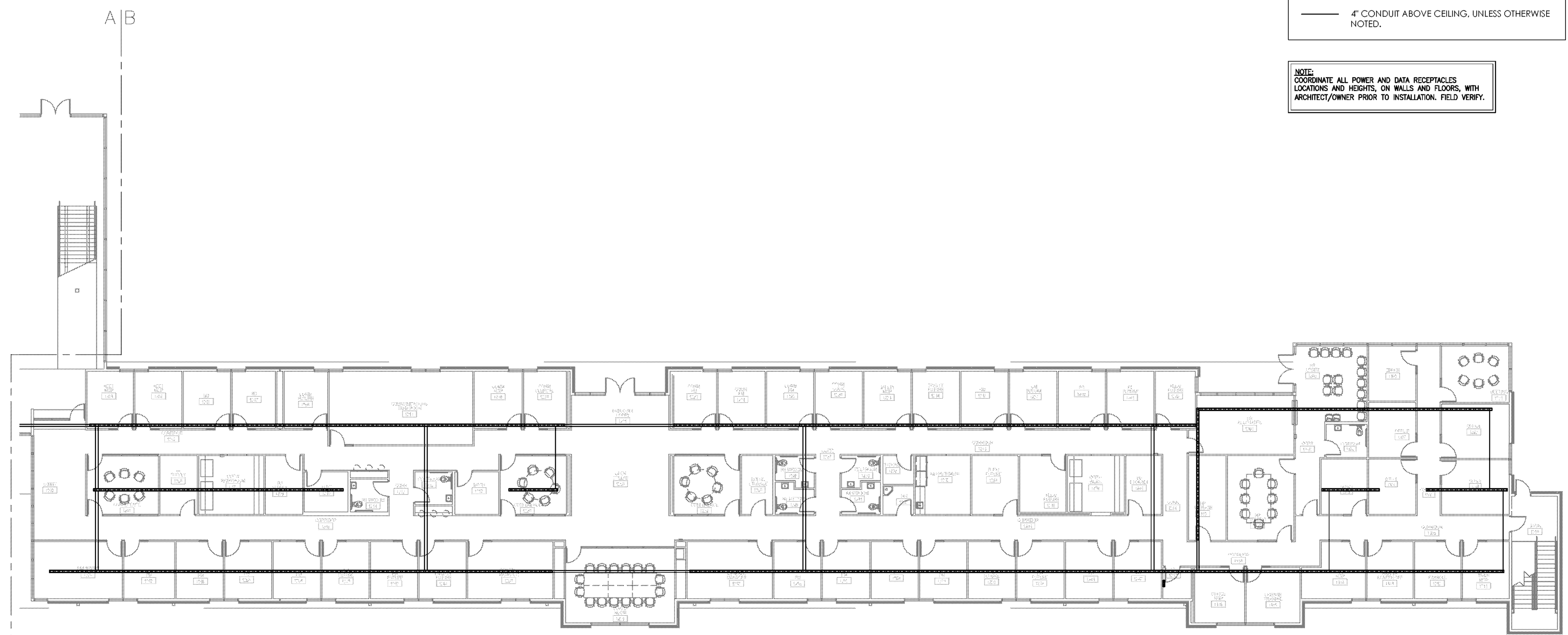
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 First Floor Telecom - Above Ceiling Plan - B
 Sheet 2 of 2

North
 T1.14

NETWORK SYMBOLS

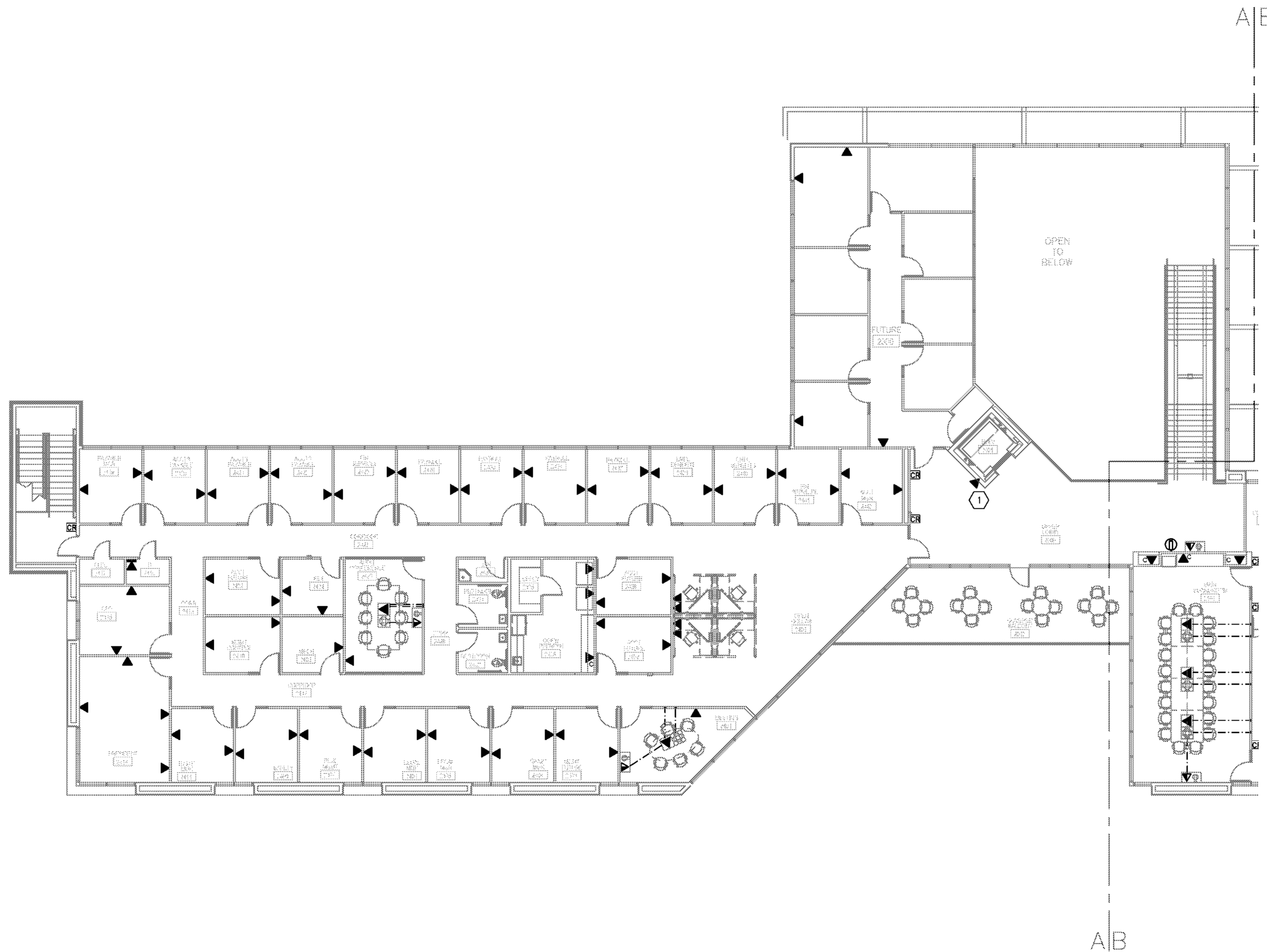
- DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING. C = ABOVE COUNTER.
- TELECOMMUNICATIONS FLOOR BOX, MOUNTED FLUSH IN FINISHED FLOOR. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING AND CONNECTION TO WALLBOX AS REQUIRED.
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NOTE:
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1 First Floor Telecom - Above Ceiling Plan - B
 Scale: 3/32" = 1'-0"

AB



NETWORK SYMBOLS

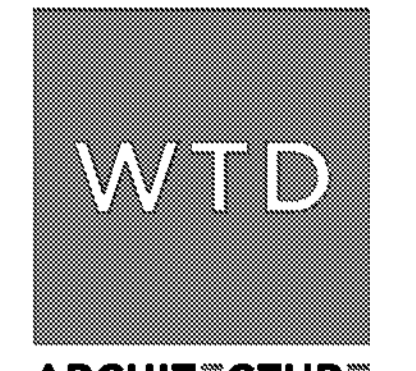
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NOTE:
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KEYED NOTES:

- ① PROVIDE A DEDICATED PHONE LINE CONNECTION AT ELEVATOR PHONE BOX, HOMERUN TELEPHONE CABLING TO COMM ROOM. COORDINATE EXACT PHONE BOX LOCATION WITH ELEVATOR SUPPLIER.

1 Second Floor Telecom Pathway Plan - A
Scale: 3/32" = 1'-0"

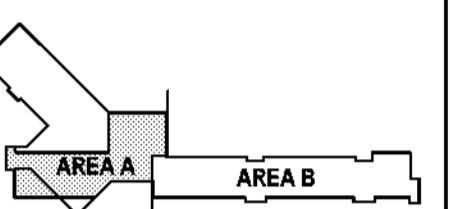


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Key Plan:



Consultants:



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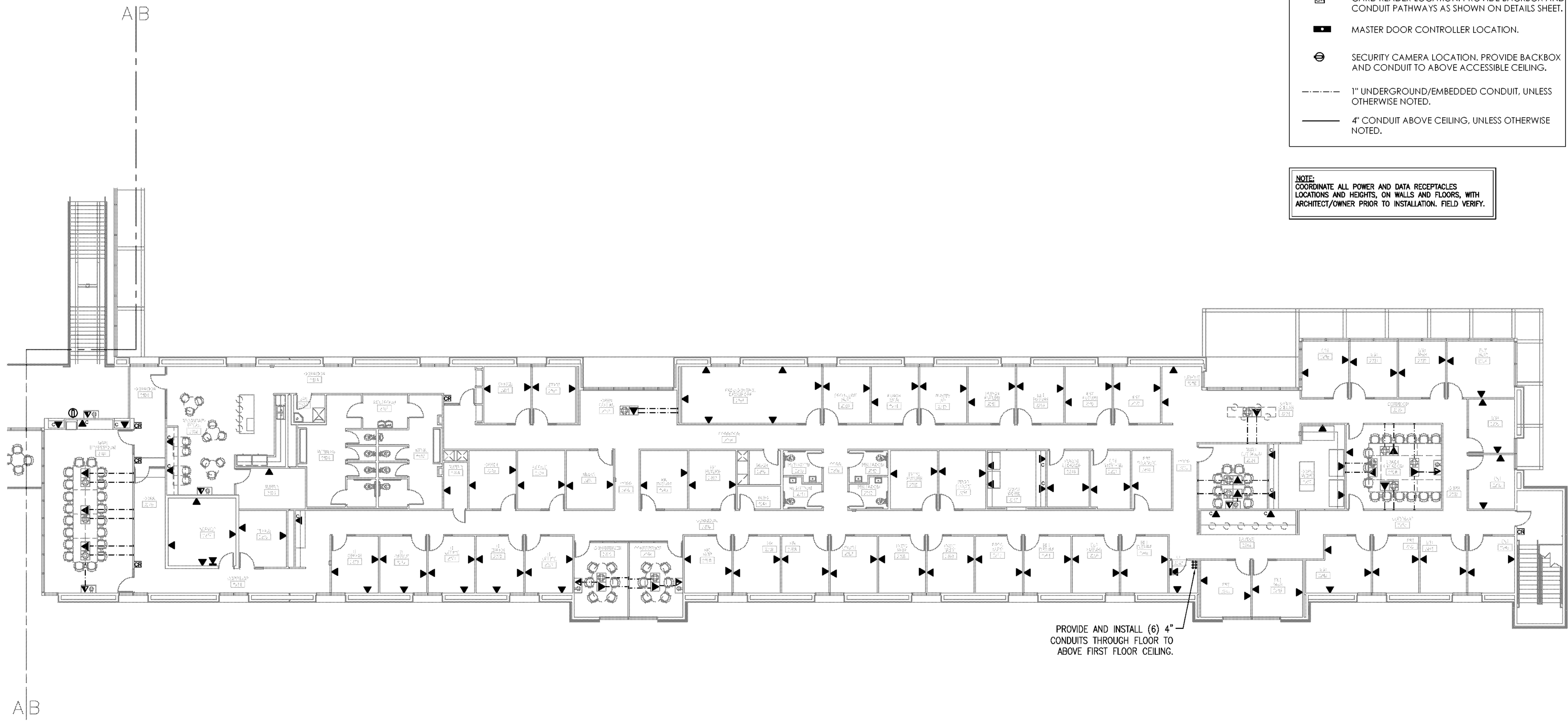
Phase: Bid Documents

Date: 10-26-23

Revisions:



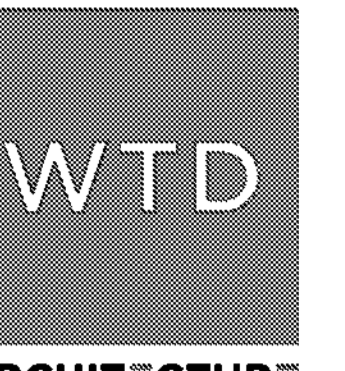
Professional Seal
Scale: 3/32" = 1'-0"
SMT Description:
Second Floor Telecom Pathway Plan - A
Sheet 1 of 2



NETWORK SYMBOLS

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- 4" CONDUIT ABOVE CEILING, UNLESS OTHERWISE NOTED.

NOTE:
COORDINATE ALL POWER AND DATA RECEPTACLE LOCATIONS AND HEIGHTS, ON WALLS AND FLOORS, WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. FIELD VERIFY.

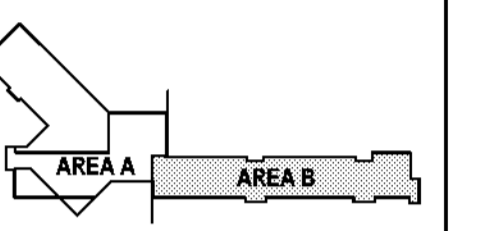


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Key Plan:



Consultants:



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The Newtron Group
New Campus Corporate Headquarters
13820 Airline Highway
Baton Rouge, LA - 70817

Phase: Bid Documents

Date: 10-26-23

Revisions:



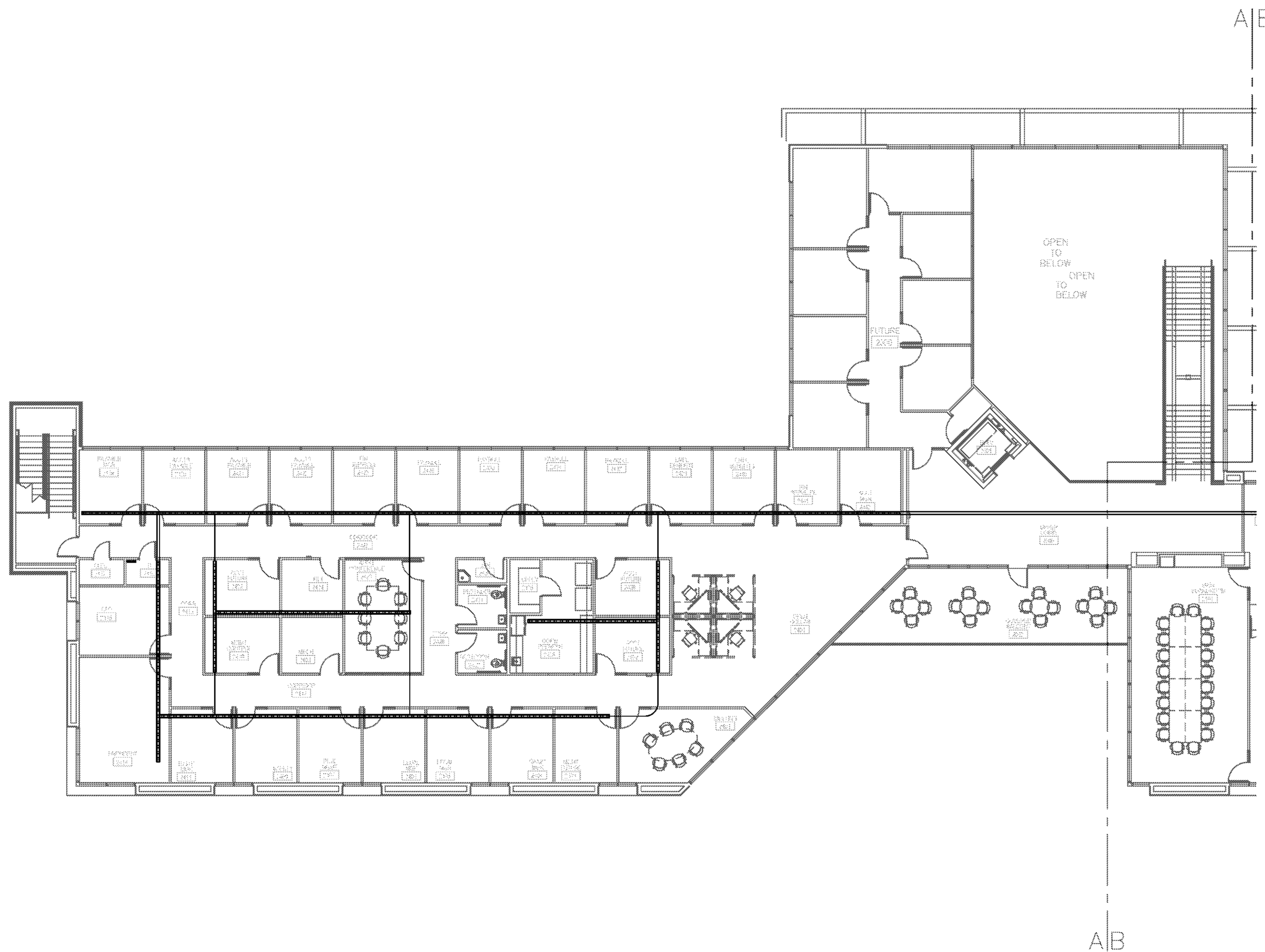
Professional Seal

Scale: 3/32" = 1'-0"

SM Description:
Second Floor Telecom Pathway
Plan - B Sheet 2 of 2

North
T1.22

1 **Second Floor Telecom Pathway Plan - B**
Scale: 3/32" = 1'-0"



NETWORK SYMBOLS

- ▼ DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING. C = ABOVE COUNTER.
- ▼ TELECOMMUNICATIONS FLOOR BOX, MOUNTED FLUSH IN FINISHED FLOOR. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING AND CONNECTION TO WALLBOX AS REQUIRED.
- ▼ TELECOMMUNICATIONS/POWER/AV WALL BOX, MOUNTED FLUSH IN WALL AT 84" AFF UNLESS OTHERWISE NOTED. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING AS SHOWN ON DETAILS SHEET. PROVIDE 1" CONDUIT CONNECTION TO FLOORBOX OR AV/DATA WALL OUTLET LOCATION.
- ▼ AV/DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING.
- ▼ AV/DATA OUTLET, MOUNTED FLUSH IN FINISHED CEILING. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING.
- ▢ CABLE TRAY, 6" WIDE BY 4" HIGH. ALL CABLE TRAYS TO BE RUN ABOVE CEILING.
- ▢ CARD READER LOCATION. PROVIDE BACKBOX AND CONDUIT PATHWAYS AS SHOWN ON DETAILS SHEET.
- MASTER DOOR CONTROLLER LOCATION.
- ⊖ SECURITY CAMERA LOCATION. PROVIDE BACKBOX AND CONDUIT TO ABOVE ACCESSIBLE CEILING.
- 1" UNDERGROUND/EMBEDDED CONDUIT, UNLESS OTHERWISE NOTED.
- 4" CONDUIT ABOVE CEILING, UNLESS OTHERWISE NOTED.

NOTE:
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WTD

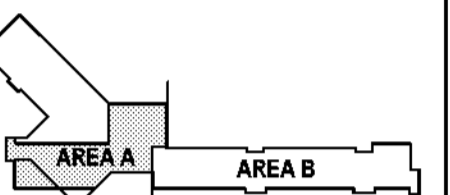
ARCHITECTURE

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MKE
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Key Plan:



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Date: 10-26-23

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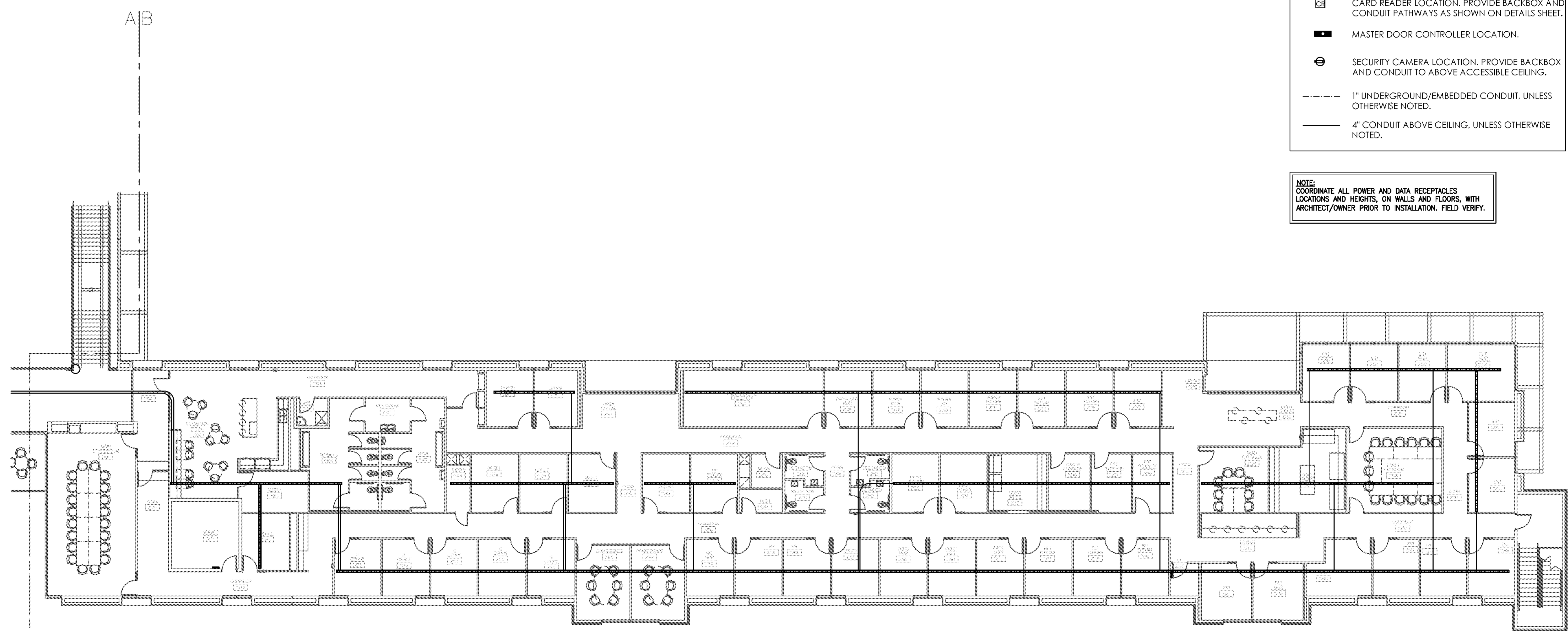
Professional Seal

Scale: 3/32" = 1'-0"

SM Description:
Second Floor Telecom - Above Ceiling Plan - A Sheet 1 of 2

North T1.23

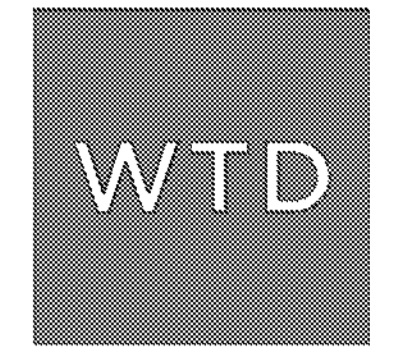
1 First Floor Telecom - Above Ceiling Plan - A
Scale: 3/32" = 1'-0"



NETWORK SYMBOLS

- ▼ DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING. C = ABOVE COUNTER.
- ▼ TELECOMMUNICATIONS FLOOR BOX, MOUNTED FLUSH IN FINISHED FLOOR. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING AND CONNECTION TO WALLBOX AS REQUIRED.
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- ▼ AV/DATA OUTLET. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING.
- ▼ AV/DATA OUTLET, MOUNTED FLUSH IN FINISHED CEILING. PROVIDE CONDUIT TO ABOVE ACCESSIBLE CEILING.
- ▢ CABLE TRAY, 6" WIDE BY 4" HIGH. ALL CABLE TRAYS TO BE RUN ABOVE CEILING.
- ▢ CARD READER LOCATION. PROVIDE BACKBOX AND CONDUIT PATHWAYS AS SHOWN ON DETAILS SHEET.
- MASTER DOOR CONTROLLER LOCATION.
- ⊖ SECURITY CAMERA LOCATION. PROVIDE BACKBOX AND CONDUIT TO ABOVE ACCESSIBLE CEILING.
- 1" UNDERGROUND/EMBEDDED CONDUIT, UNLESS OTHERWISE NOTED.
- 4" CONDUIT ABOVE CEILING, UNLESS OTHERWISE NOTED.

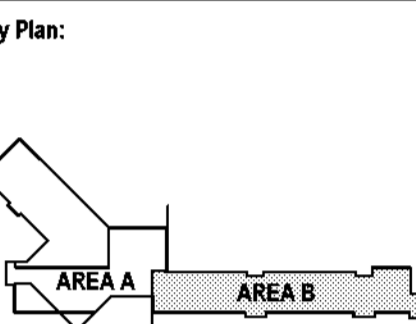
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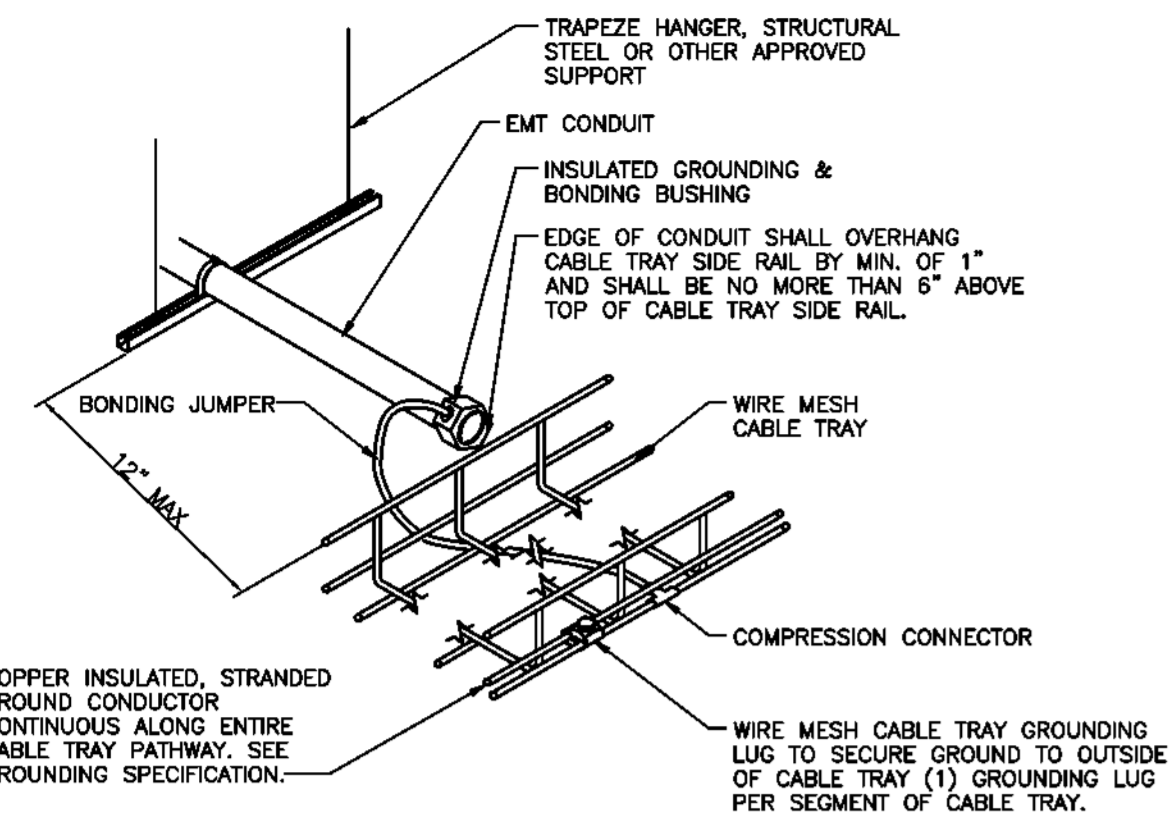
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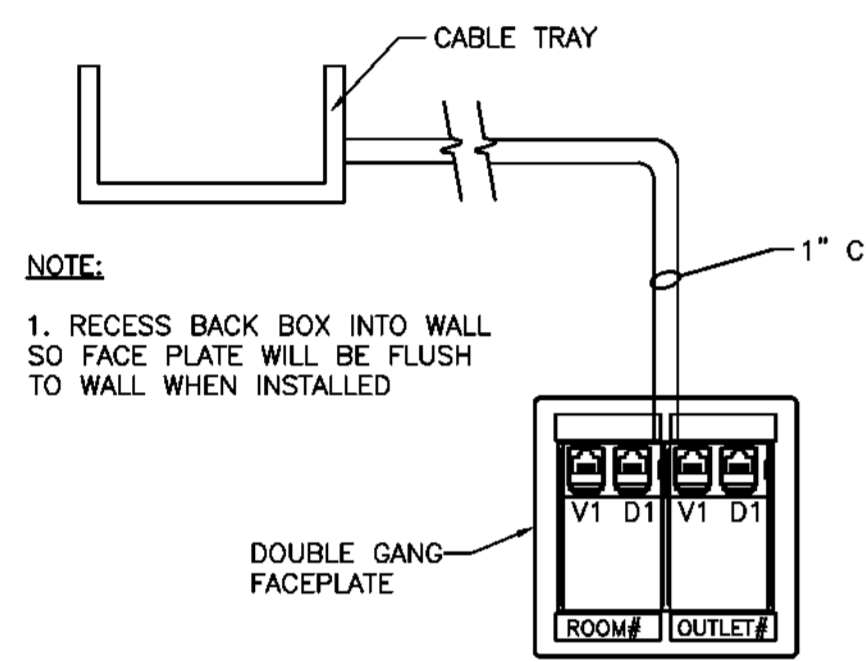
Professional Seal
Scale: 3/32" = 1'-0"
SM Description:
Second Floor Telecom - Above Ceiling Plan - B Sheet 2 of 2

North T1.24

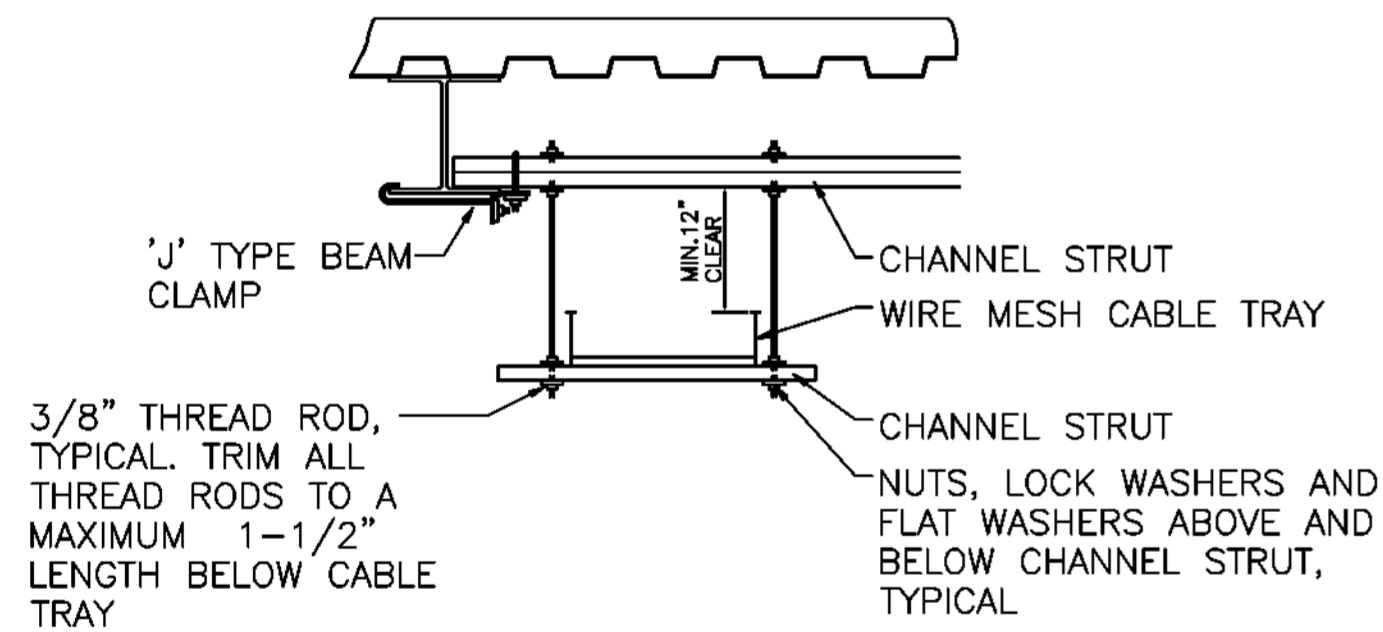
1 First Floor Telecom - Above Ceiling Plan - B
Scale: 3/32" = 1'-0"



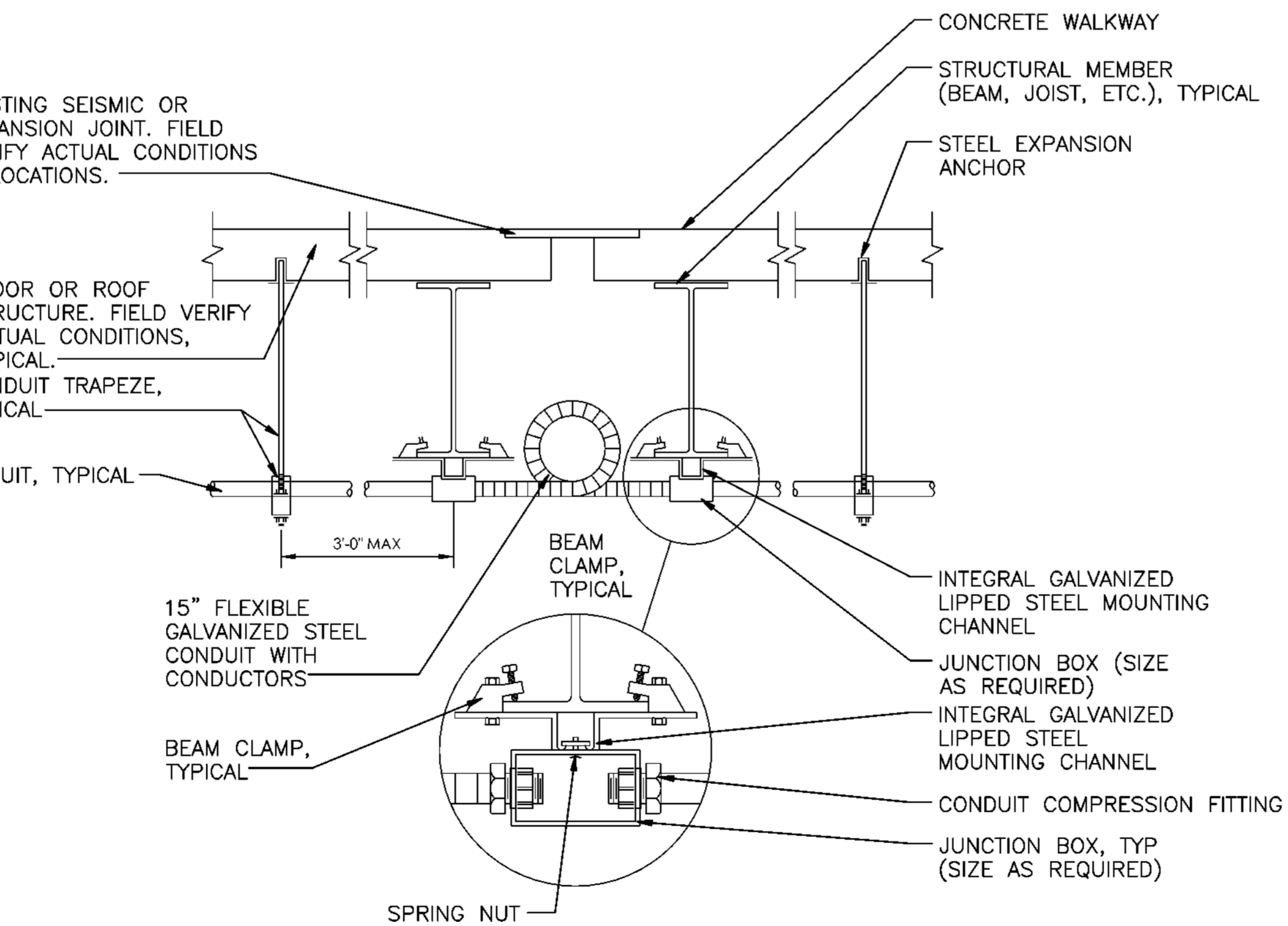
5 CONDUIT TO CABLE TRAY BONDING
SCALE = NONE



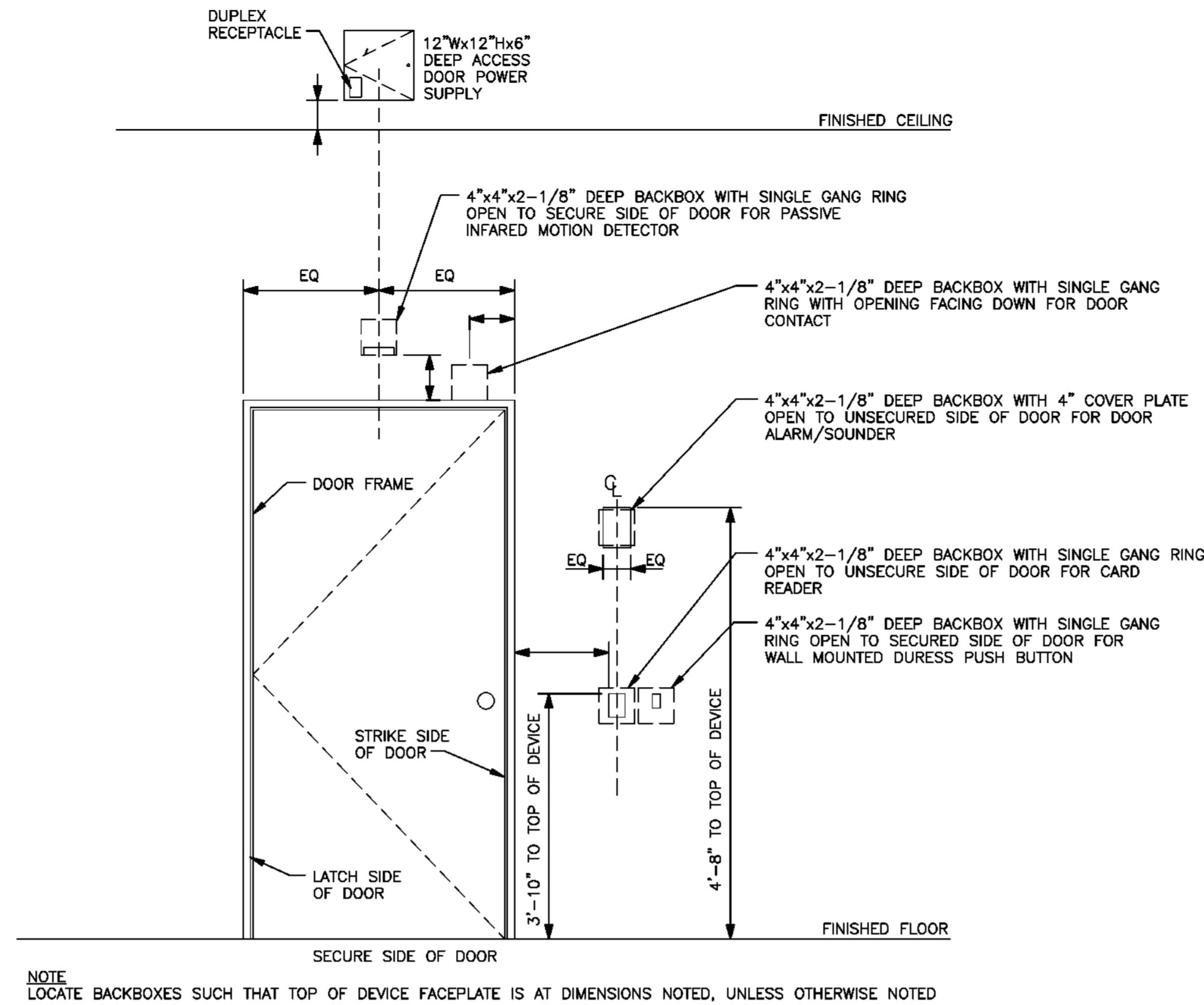
6 TYPICAL OUTLET INSTALL
SCALE = NONE



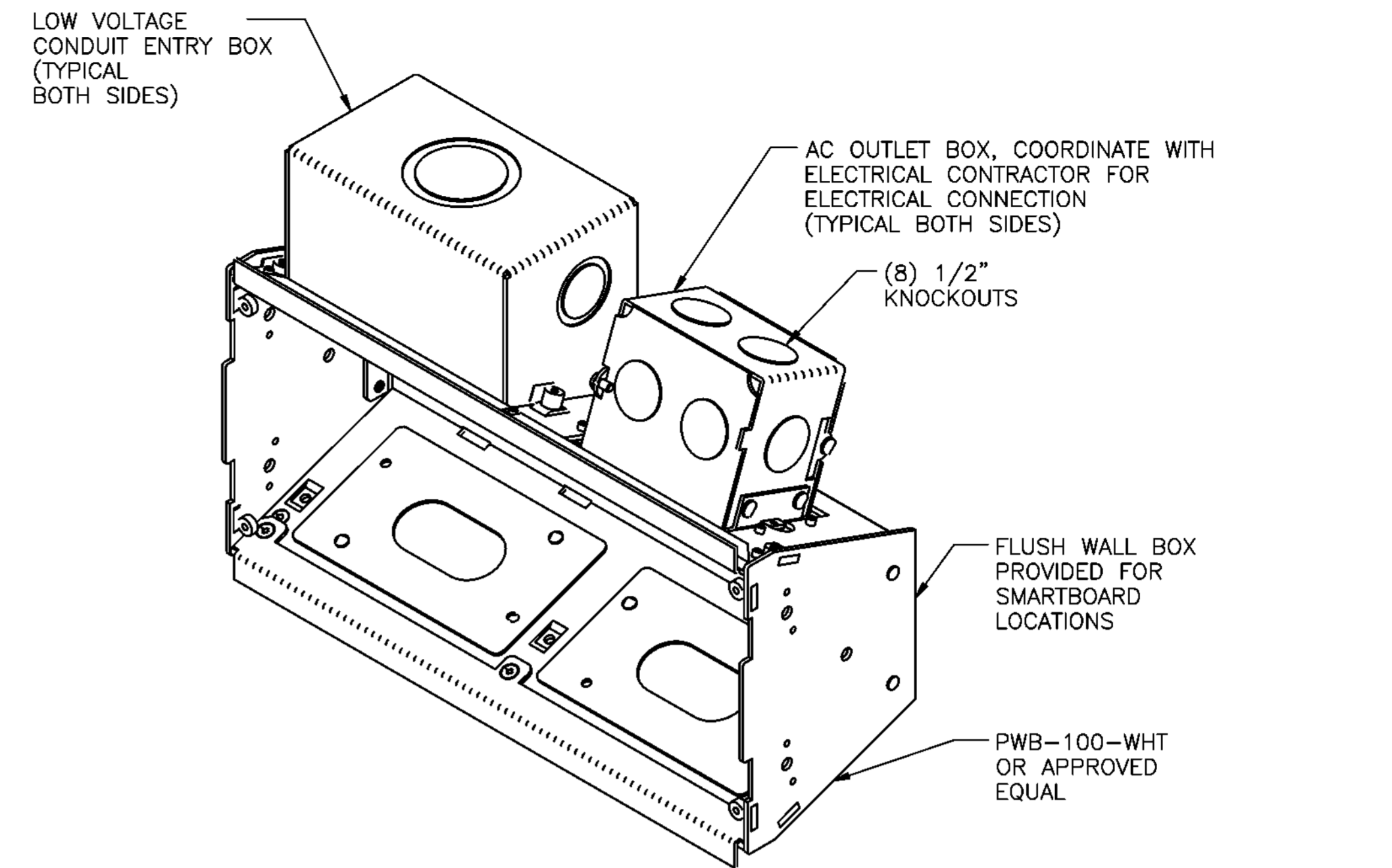
7 CABLE TRAY MOUNTING DETAIL
SCALE = NONE



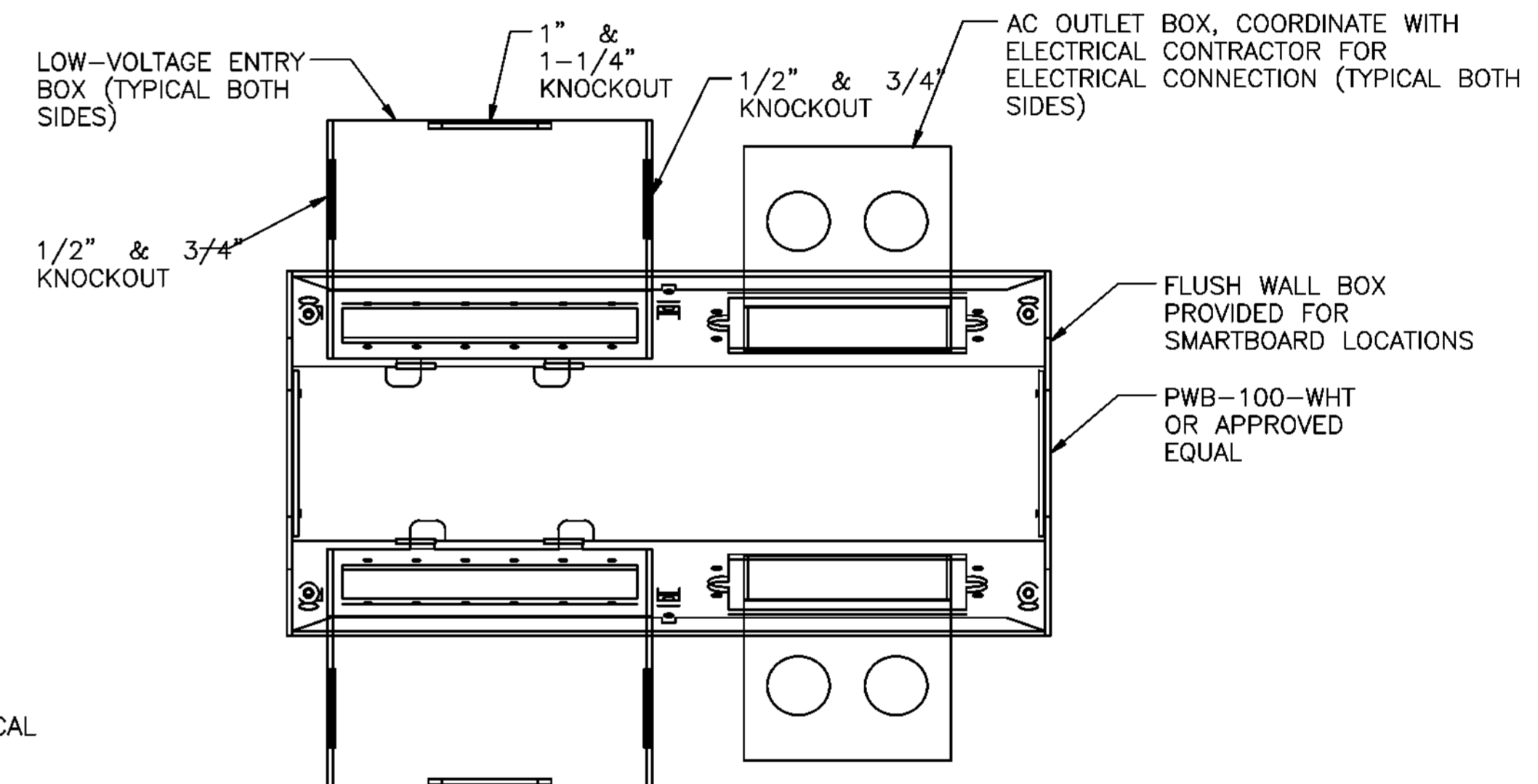
4 CONDUIT EXPANSION JOINT CROSSING DETAIL
SCALE = NONE



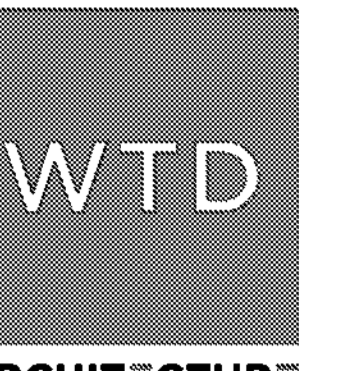
3 MOUNTING HEIGHTS FOR SECURITY BACKBOX DESIGN ONLY
SCALE = NONE



1 FLUSH WALL BOX DETAIL FOR SMARTBOARD
SCALE = NONE



2 CABLE TRAY ACROSS EXPANSION JOINT
SCALE = NONE



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Key Plan:

Consultants:



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Phase: Bid Documents

Date: 10-26-23

Revisions:



Professional Seal
Scale: 3/32" = 1'-0"

SM Description:
Telecom Pathway Details

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	SPECIFICATION GRADE, TAMPER PROOF DUPLEX RECEPTACLE, 20 AMP, 125V, HEAVY DUTY, WITH STAINLESS STEEL FACEPLATE	WALL 18" AFF, U.N.O.
	SPECIFICATION GRADE, TAMPER PROOF DOUBLE DUPLEX RECEPTACLE, 20 AMP, 125V, HEAVY DUTY, WITH STAINLESS STEEL FACEPLATE	WALL 18" AFF, U.N.O.
	SPECIFICATION GRADE, GFCI TAMPER PROOF DUPLEX RECEPTACLE, 20 AMP, 125V, HEAVY DUTY, WITH STAINLESS STEEL FACEPLATE	WALL 18" AFF, U.N.O.
	SPECIFICATION GRADE, TAMPER RESISTANT WEATHERPROOF DUPLEX RECEPTACLE, 20 AMP, 125V, HEAVY DUTY, WITH GROUND FAULT INTERRUPT AND WIPE IN USE CAST ALUMINUM COVER	WALL 18" AFF, U.N.O.
	DEVICE MOUNTED ABOVE COUNTER "CT", MOUNT "B" ABOVE BACKSPASH TO CENTERLINE OF DEVICE, COORDINATE EXACT LOCATION WITH ARCHITECTURAL	WALL 8" ABOVE BACKSPASH
	COMMERCIAL GRADE, TAMPER RESISTANT DUPLEX RECEPTACLE, 20 AMP, 125V, 2-POLE, 3-WIRE, 5-20R, WITH (2) 5A USB CHARGING PORTS, HUBBELL USB20A5, WITH STAINLESS STEEL FACEPLATE	WALL 18" AFF, U.N.O.
	20A, 240V SIMPLEX RECEPTACLE, MOUNTED AS REQUIRED BY EQUIPMENT BEING SERVED, WITH BRUSHED STAINLESS STEEL FACEPLATE	WALL, VERIFY HEIGHT
	30A, 240V SIMPLEX RECEPTACLE, MOUNTED AS REQUIRED BY EQUIPMENT BEING SERVED, WITH BRUSHED STAINLESS STEEL FACEPLATE	WALL, VERIFY HEIGHT
	POWER FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE, EQUAL TO HUBBELL, SYSTEM ONE NON-METALLIC WITH 2-20A RECEPTACLES, WITH CAST ALUMINUM COVER/WINGLANE DOOR OVER RECEPTACLE	RECESSED FLUSH FLOOR
	SPECIFICATION GRADE DUPLEX RECEPTACLE - 20 AMP, 125V, AND VOICE/DATA RECEPTACLE, TAMPER PROOF, HEAVY DUTY, MOUNTED IN RECESSED FLUSH FLOOR BOX, WITH BRASS COVERPLATE	RECESSED FLUSH FLOOR
	SPECIFICATION GRADE DOUBLE DUPLEX RECEPTACLE - 20 AMP, 125V, AND VOICE/DATA RECEPTACLE, TAMPER PROOF, HEAVY DUTY, MOUNTED IN RECESSED FLOOR BOX, WITH BRASS COVERPLATE	RECESSED FLUSH FLOOR
	METER, COORDINATE ALL REQUIREMENTS WITH SERVING ELECTRICAL UTILITY COMPANY	RACK MOUNT AT PADMOUNT TRANSFORMER
	PADMOUNT TRANSFORMER, PROVIDED BY UTILITY COMPANY, COORDINATE ALL REQUIREMENTS WITH SERVING ELECTRICAL UTILITY COMPANY	PROVIDE CONCRETE PAD PER UTILITY REQ.
	DISTRIBUTION PANELBOARD, SEE PANELBOARD SCHEDULES	AS SCHEDULED
	LIGHT AND POWER PANELBOARD, SEE PANELBOARD SCHEDULES	AS SCHEDULED
	DRY-TYPE TRANSFORMER	AS NOTED
	ELECTRICAL GENERATOR, PROVIDE A CONCRETE PAD PER MANUFACTURER'S REQUIREMENTS. SEE DRAWING NOTES AND SPECIFICATIONS.	CONCRETE PAD
	AUTOMATIC TRANSFER SWITCH. SEE DRAWING NOTES AND SPECIFICATIONS.	WALL
	SAFETY SWITCH, HEAVY DUTY, NEMA 1. DIAGONAL LINE INDICATES FUSIBLE FUSE PER MANUFACTURER'S RECOMMENDATION, TAG AT DISCONNECT I.E. AMPERAGE/POLES/NEMA RATING (60/3/N1)	WALL
	SAFETY SWITCH, HEAVY DUTY, NEMA 3R. DIAGONAL LINE INDICATES FUSIBLE FUSE PER MANUFACTURER'S RECOMMENDATION, TAG AT DISCONNECT I.E. AMPERAGE/POLES/NEMA RATING (60/3/N1)	WALL
	ENCLOSED CIRCUIT BREAKER, HEAVY DUTY, NEMA 3R OUTDOORS. TAG AT ENCLOSED CIRCUIT BREAKER - I.E. AMPERAGE/PHASE/NEMA RATING (60/3/N3), N1=NEMA 1; N3=NEMA 3R RATING.	WALL
	MAGNETIC MOTOR STARTER. SEE SPECIFICATIONS	WALL
	MOTOR RATED SWITCH-SINGLE POLE, 20A, 120-277V, HUBBELL #CSB120W	48" AFF
	MOTOR RATED SWITCH-DOUBLE POLE, 20A, 120-277V, HUBBELL #CSB220W	48" AFF
	SINGLE POLE PILOT LIGHT SWITCH, 20A HEAVY DUTY, WITH LED PILOT LIGHT "ON" INDICATOR, HUBBELL #HBL1221PL	48" AFF
	JUNCTION BOX LOCATION, MOUNTED AS NOTED ON DRAWING, SIZE AS REQUIRED BY EQUIPMENT BEING SERVED.	AS REQUIRED
	HOME RUN CONDUIT/CIRCUIT CONDUCTORS, CIRCUIT NUMBER AS INDICATED ON DRAWINGS, HASHMARKS INDICATE HOT NEUTRAL AND GROUND	
	CONDUIT RUN IN FLOOR OR SLAB.	
	CONDUIT RUN IN WALLS OR CEILING.	

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	SINGLE POLE SWITCH, 20A HEAVY DUTY, HUBBELL #HBL1221W W/MATCHING COVERPLATE	WALL 48" AFF
	THREE WAY SWITCH, 20A HEAVY DUTY, HUBBELL #HBL1223W W/MATCHING COVERPLATE	WALL 48" AFF
	FOUR WAY SWITCH, 20A HEAVY DUTY, HUBBELL #HBL1224W W/MATCHING COVERPLATE	WALL 48" AFF
	DIMMER SWITCH, 0-10V ACUITY ISD-BC-120/277-WH	WALL 48" AFF
	DUAL TECHNOLOGY WALL OCCUPANCY SWITCH, ACUITY WSX-PDT-WH	WALL 48" AFF
	DUAL TECHNOLOGY WALL OCCUPANCY SWITCH WITH DIMMING FUNCTION, ACUITY WSX-PDT-SA-WH	WALL 48" AFF
	DUAL TECHNOLOGY TWO POLE WALL OCCUPANCY SWITCH WITH SEPARATE FAN CONTROL, ACUITY WSX-PDT-2P-FAN-WH	WALL 48" AFF
	LOW VOLTAGE DUAL TECHNOLOGY WALL OCCUPANCY SWITCH WITH DIMMING FUNCTION & DAYLIGHT PHOTOSENSOR, EQUAL TO ACUITY nWSXA-PDT-LV-DX-WH	WALL 48" AFF
	SINGLE CHANNEL LOW VOLTAGE WALL POD SWITCH, EQUAL TO ACUITY nPODM-WH	WALL 48" AFF
	SINGLE CHANNEL LOW VOLTAGE WALL POD SWITCH WITH DIMMING FUNCTION, EQUAL TO ACUITY nPODM-DX-WH	WALL 48" AFF
	TWO CHANNEL LOW VOLTAGE WALL POD SWITCH, EQUAL TO ACUITY nPODM-2P-WH	WALL 48" AFF
	TWO CHANNEL LOW VOLTAGE WALL POD SWITCH WITH DIMMING FUNCTION, EQUAL TO ACUITY nPODM-2P-DX-WH	WALL 48" AFF
	FOUR CHANNEL LOW VOLTAGE WALL POD SWITCH, EQUAL TO ACUITY nPODM-4P-WH	WALL 48" AFF
	FOUR CHANNEL LOW VOLTAGE WALL POD SWITCH WITH DIMMING FUNCTION, EQUAL TO ACUITY nPODM-4P-DX-WH	WALL 48" AFF
	DUAL TECHNOLOGY LOW VOLTAGE OCCUPANCY SENSOR WITH DAYLIGHT PHOTOSENSOR, EQUAL TO ACUITY NCM-PDT-9, '9' INDICATES WHICH FIXTURES ARE CONTROLLED VIA SENSOR.	CEILING
	DUAL TECHNOLOGY LOW VOLTAGE CORNER MOUNT OCCUPANCY SENSOR WITH DIMMING FUNCTION & DAYLIGHT PHOTOSENSOR, EQUAL TO ACUITY nWV-PDT-16, '9' INDICATES WHICH FIXTURES ARE CONTROLLED VIA SENSOR.	CEILING
	LIGHTING CONTROL PANEL LCP, EQUAL TO ACUITY N-LIGHT RELAY PANEL #ARP-INTENC48-NLT-MVOLT-SM. SEE LIGHTING CONTROL PANEL SCHEDULE	WALL
	PHOTO-ELECTRIC LIGHTING SWITCH (P.E. SWITCH), INTERLOCK WITH LIGHTING CONTROL PANEL. MOUNT FACING NORTH, 12" BELOW SOFFIT	-
	LIGHT FIXTURES, TYPE MARK REFERENCES LUMINAIRE SCHEDULE FOR DESCRIPTION AND CATALOG NUMBER	AS SCHEDULED
	EXIT SIGN, SEE LUMINAIRE SCHEDULE	CEILING/WALL
	DOUBLE FACE EXIT SIGN, SEE LUMINAIRE SCHEDULE	CEILING/WALL
	EXIT SIGN WITH EMERGENCY LIGHTING UNIT, SEE LUMINAIRE SCHEDULE	WALL
	EMERGENCY LIGHTING UNIT, SEE LUMINAIRE SCHEDULE	CEILING/WALL
	EMERGENCY LIGHTING UNIT, SEE LUMINAIRE SCHEDULE	CEILING
	SITE LIGHTING LUMINAIRE AND POLE, SEE LUMINAIRE SCHEDULE	POLE/CONCRETE BASE
	DECORATIVE POST TOP STYLE SITE LIGHTING LUMINAIRE, SEE LUMINAIRE SCHEDULE	POLE/CONCRETE BASE
	BOLLARD STYLE LUMINAIRE, SEE LUMINAIRE SCHEDULE	CONCRETE BASE

BASIS OF DESIGN

- 2017 NATIONAL ELECTRICAL CODE
- 2009 INTERNATIONAL ENERGY CONSERVATION CODE
- SERVICE CHARACTERISTICS: THESE DRAWINGS ARE FOR A METERED, UNDERGROUND BUILDING SERVICE OF THREE PHASE, FOUR WIRE, 60 HERTZ.
- ALL CONDUCTORS SHALL BE COPPER, U.N.O. SERVICE ENTRANCE CONDUCTORS MAY BE ALUMINUM.
- ALL WIRE AND CABLES SHALL BE UNDERWRITERS LABORATORIES' LISTED, AND LABELED, AND CONFORM WITH APPLICABLE STANDARDS OF U.L. (44 AND 83), NEMA (WC-5 AND WC-7), IPECA (S-61-402 AND S-66-524), FEDERAL SPECIFICATIONS (J-C-30A1(1) AND HH-595C), ANSI, AND OTHER APPLICABLE INDUSTRY STANDARDS. CONNECTORS AND LUGS SHALL MEET U.L. PUBLICATION 486. ALL BRANCH CIRCUIT WIRING SHALL BE 600 VOLT, COPPER, 75 DEGREE C (MINIMUM), TYPE THHN/THWN WITH A MINIMUM SIZE OF #12 AWG UNLESS NOTED OTHERWISE. WIRE SIZES OF #8 AWG AND LARGER SHALL BE STRANDED. SERVICE AND FEEDER CABLES SHALL BE 600 VOLT, STRANDED COPPER, 75 DEGREE C (MINIMUM), TYPE XHHW. ALL CIRCUITS SHALL HAVE A SEPARATE GROUNDED CONDUCTOR. PROVIDE GREEN INSULATED GROUNDED CONDUCTOR IN ALL RACEWAYS, CABLE ASSEMBLIES, AND WHERE NOTED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. REMANUFACTURED, REPAIRED, AND RECONDITIONED EQUIPMENT ARE NOT ACCEPTABLE.
- ALL EQUIPMENT IS SCHEDULED WITHOUT SUBSTITUTIONS. HOWEVER, SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER MAJOR MANUFACTURERS OF COMMERCIAL EQUIPMENT MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED BY THE OWNER, ARCHITECT, AND ENGINEER OF RECORD.
- PANEL BOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE, AS SHOWN ON THE PLANS. PANELS SHALL BE OF A PANEL BOARD CONSTRUCTION, 20 INCHES WIDE (MINIMUM), 5-3/4" TO 6-1/2" DEEP, U.L. LISTED, AND MEET U.L. 67, U.L. 50, AND FEDERAL SPECIFICATION W-9-115B AS TYPE 1, CLASS 1, WITH BOLT-ON CIRCUIT BREAKERS, COPPER BUS BARS, NEUTRAL BUS, GROUND BUS, AND A HINGED LOCKABLE DOOR. CABINETS SHALL BE CODE GAUGE, GALVANIZED STEEL, MOUNTED AS SHOWN.
- ALL JUNCTION BOXES, PULL BOXES, WIRE WAYS, ETC., SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL PRODUCTS AND EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- ALL FURNISHED EQUIPMENT TERMINALS SHALL BE LISTED FOR USE AT 75°C.
- NO CONDUIT SMALLER THAN 3/4" SHALL BE INSTALLED.

ELECTRICAL CONTRACTOR REQUIREMENTS

- PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM FOR THE BUILDING.
- BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THE ELECTRICAL SERVICE ARRANGEMENTS WITH THE LOCAL POWER COMPANY AND WITH OWNER SUPPLIED SITE PLAN. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL OF THE FOLLOWING MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE: PANEL BOARDS; LIGHTING FIXTURES; LAMPS; RACEWAYS; 600 VOLT WIRE AND CABLE; WIRING DEVICES; DEVICE PLATES; DEVICE, PULL, AND JUNCTION BOXES; SAFETY SWITCHES; MOTOR STARTERS; LIGHTING CONTROLS; CIRCUIT BREAKERS; FUSES; TIME CLOCKS; EQUIPMENT IDENTIFICATION (NAMEPLATES AND DIRECTORIES); WIRE AND CABLE TERMINATIONS; CONNECTIONS TO INDIVIDUAL UNITS OF EQUIPMENT. THIS REQUIREMENT INCLUDES DEVICES, CONDUCTORS, AND ETC. REQUIRED BY OTHER DISCIPLINES. THE ELECTRICAL CONTRACTOR SHALL REVIEW OTHER INSTALLATION PACKAGES TO INSURE EQUIPMENT NEEDED TO BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FITTINGS AND NECESSARY EQUIPMENT FOR LIGHT FIXTURE MOUNTING, AND INSTALLATION.
- ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELECTRICIANS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE, MEETING THE REQUIREMENTS OF THE LATEST, ADOPTED, EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE FEDERAL, STATE AND LOCAL CODES, AND THE REQUIREMENTS OF THE ELECTRICAL UTILITY COMPANY FURNISHING THE SERVICES. ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION SHALL BE PURCHASED AND OBTAINED UNDER THIS CONTRACT.
- FURNISH A GUARANTEE IN WRITING TO THE OWNER THAT ALL WORK EXECUTED UNDER THIS PACKAGE IS FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. IN ADDITION, DURING THE TERM OF THIS GUARANTEE, THE REPAIR AND/OR REPLACEMENT OF ANY DEFECTIVE WORK, AND ALL RESULTING DAMAGES SHALL BE MADE AT NO ADDITIONAL EXPENSE TO THE OWNER.

GENERAL NOTES

- NON-METALLIC SHEATHED (TYPE NM) CABLE IS NOT PERMITTED.
- ALL WIRING SHALL BE RUN IN CONDUIT.
- ALL WIRES SHALL BE TAGGED WITH PANEL AND CIRCUIT NUMBERS.
- FOR HOME RUNS ON 20 AMP CIRCUITS EXCEEDING SEVENTY-FIVE (75) FEET FROM THE PANEL BOARD SHALL USE #10 AWG MINIMUM.
- AN ELECTRICALLY CONTINUOUS, EQUIPMENT GROUNDING CONDUCTOR SHALL BE RUN WITH EACH POWER AND LIGHTING CONDUIT. SIZE OF THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE AS NOTED OR AS DETERMINED IN TABLE 250.122 OF THE N.E.C. IF NOT NOTED. EQUIPMENT GROUNDING CONDUCTOR SHALL BE INCLUDED REGARDLESS OF THE CONDUIT TYPE AND MATERIAL USED.
- BOND TELEPHONE EQUIPMENT TO THE ELECTRICAL SERVICE GROUNDING SYSTEM PER NATIONAL ELECTRICAL CODE.
- ALL CIRCUITS SHALL HAVE AN INDIVIDUAL GROUNDED CONDUCTOR. NO MULTIWIRE CIRCUITS ARE PERMISSIBLE.
- CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS. FOR CONDUCTORS SMALL THAN #6 THE JACKET SHALL BE OF THE NOTED COLOR. FOR CONDUCTORS LARGER THAN #6, EACH END OF THE CONDUCTOR SHALL BE MARKED WITH TAPE FOR A MINIMUM OF FOUR (4) INCHES.

CONDUCTOR COLOR CODES					
	PHASE A	PHASE B	PHASE C	GROUNDING CONDUCTOR	GROUNDING CONDUCTOR
<= 240V	BLACK	RED	BLUE	WHITE	GREEN
> 240V	BROWN	ORANGE	YELLOW	GREY	GREEN

- ALL CIRCUIT BREAKERS, DISCONNECTS, AND OTHER PROTECTIVE DEVICES SHALL BE FULLY RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY THE LOCAL UTILITY. E.C. SHALL COORDINATE WITH LOCAL UTILITY BEFORE STARTING WORK.
- ALL BUILDING SYSTEM GROUNDING ELECTRODES SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM. GROUNDING SYSTEM SHALL COMPLY WITH N.E.C. ARTICLE 250.
- EMERGENCY UNIT LIGHTING EQUIPMENT SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT OF THE LIGHTS IN THE IMMEDIATE AREA.
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM. 2' X 4' FIXTURES SHALL BE SUPPORTED WITH A CABLE FROM AT LEAST TWO CORNERS.
- HIGH BAY LIGHTING, SHALL HAVE A SAFETY CHAIN INSTALLED.
- ALL MOUNTING HEIGHTS ARE GIVEN FROM THE CENTER OF THE DEVICE
- LIGHT SWITCHES SHALL BE MOUNTED 46" A.F.F. U.N.O.
- RECEPTACLES SHALL BE MOUNTED 18" A.F.F. U.N.O.
- TELECOMMUNICATIONS AND DATA OUTLETS SHALL BE MOUNTED 18" A.F.F. U.N.O.
- WALL MOUNTED TELECOMMUNICATIONS AND DATA OUTLETS SHALL BE MOUNTED 46" A.F.F. U.N.O.
- CABLE T.V. OUTLET SHALL BE MOUNTED 18" A.F.F. U.N.O.
- DISCONNECT SWITCHES SHALL BE FURNISHED, AS PART OF THIS PACKAGE, AND INSTALLED FOR EACH UNIT OF HVAC AND OTHER REQUIRED EQUIPMENT.
- PROVIDE NAMEPLATES FOR ALL PANEL BOARDS, CONTROLS, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT. NAMEPLATES SHALL BE ENGRAVED PHENOLIC LABELS WITH WHITE LETTERING ON A BLACK BACKGROUND.
- PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES WITH CLEAR PLASTIC PROTECTORS IN ALL PANELS.
- OUTDOOR RECEPTACLES SHALL HAVE INSTALLED AN EXTRA HEAVY-DUTY WEATHER PROOF WHILE IN USE RECEPTACLE COVER.
- ALL EMPTY AND UNUSED CONDUIT SHALL HAVE A #12 AWG PULL WIRE LEFT REMAINING
- DURING CONSTRUCTION, CONDUIT SHALL BE KEPT FREE OF ALL FOREIGN MATTER BY USE OF CAPPED BUSHINGS ON ALL TURNED-UP ENDS. PAPER OR WOOD PLUGS ARE NOT ACCEPTABLE FOR THIS PURPOSE.
- CONDUIT PLACED IN CONCRETE OR RUN UNDERGROUND SHALL BE PLASTIC COATED RIGID GALVANIZED CONDUIT OR PVC. IF PVC IS USED, ALL ELBOWS, SWEEPS AND STUB-UPS SHALL BE PLASTIC COATED RIGID GALVANIZED STEEL. ALL CONDUIT BENDS SHALL BE FREE FROM DENTS AND KINKS
- CONDUIT EXPOSED OR RUN IN MASONRY WALLS ABOVE GRADE MAY BE PVC OR EMT WHERE ALLOWED BY LOCAL CODES. IF EMT IS NOT PERMITTED, RIGID SCREWED GALVANIZED PIPE CONDUIT AND FITTINGS SHALL BE USED. IF SHIELDED CABLE IS REQUIRED FOR CONTROL CIRCUITRY, IT SHALL BE TAN, GREY OR ANY NEUTRAL COLOR OTHER THAN THAT AS SPECIFIED FOR POWER DISTRIBUTION.
- WHERE CONNECTIONS ARE TO BE MADE BETWEEN CONDUIT TERMINATIONS AND MOTORS, EQUIPMENT, OR APPARATUS NECESSITATING FLEXIBLE CONNECTIONS, APPROVED FLEXIBLE CONDUIT SHALL BE USED. OUTDOOR CONNECTIONS TO FANS, HVAC UNITS, OR ROTATING EQUIPMENT SHALL BE MADE WITH HELICAL WOUND, LIQUID TIGHT, FLEXIBLE STEEL CONDUIT. EXPOSED CONDUIT SHALL BE SUITABLY SUPPORTED AT INTERVALS NOT TO EXCEED FIVE (5) FEET.
- ALL CIRCUITS ENTERING A JUNCTION BOX SHALL BE IDENTIFIED BY A MEANS ACCEPTABLE TO THE NATIONAL ELECTRICAL CODE
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED.
- ALL FIRE BARRIER PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE SEALANT. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL RATED WALLS AND CEILINGS PRIOR TO BID SO AN UNDERSTANDING OF NUMBER OF SEALS REQUIRED, AND DETERMINE METHOD FOR MINIMIZING THE SEAL REQUIREMENTS.

ABBREVIATIONS

A OR AMP	AMPERES
ACT	ABOVE COUNTER TOP (6")
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AFC	AMPERE INTERRUPTING CAPACITY
AM	AMMETER
APPROX	APPROXIMATELY
ASYM	ASYMMETRICAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
C / C	CONDUCTOR
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CO	COMPANY
COL	COLUMN
CNTL	CONTROL
D	CURRENT TRANSFORMER
DIA	DIAMETER
DS OR DISC	DISCONNECT SWITCH
DWG(S)	DRAWING(S)
ELEC	ELECTRIC, ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EXP	EMERGENCY STOP
EX, EXIST.	EXISTING
EXP	EXPLOSION PROOF
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUND CONDUCTOR
EMS	ENERGY MANAGEMENT SYSTEM
ETC	ET CETERA
EXIST	EXISTING
F	FUSE
FL, FLR	FLOOR
FT	FEET
G OR GND	GROUND
GA	GAUGE
GALV	GALVANIZED
GEN	GENERATOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GF I	GROUND FAULT INTERRUPTING
H-O-A	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR
IG	ISOLATED GROUND
ISBR	INTRINSICALLY SAFE BARRIER RELAY
IN	INCH
IR	INFRARED
ISCA	INSTANTANEOUS SHORT CIRCUIT AVAILABLE
JB OR J	JUNCTION BOX
kVA	KILOVOLT - AMPS
kW	KILOWATTS
kWH	KILOWATT-HOUR
L	LENGTH
LA	LIGHTNING ARRESTOR
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LFG	LIGHTING
MAX	MAXIMUM
MCB OR MB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH OR MTG	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MFRS ASSOCIATION
NF	NON-FUSIBLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
OCPP	OVERCURRENT PROTECTIVE DEVICE
OHE	OVERHEAD ELECTRICAL
P	POLE
PERM	PERMANENT
PFC	POWER FACTOR CAPACITOR
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PR	PAIR
PVC	POLYVINYLCHLORIDE CONDUIT
PWR	POWER
R&R	REMOVE AND RELOCATE
RE	RELOCATED
RECEPT	RECEPTACLE
REF	REFERENCE
RCS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
SH	SHIELDED
SS	STAINLESS STEEL
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TEL	TELEPHONE
TIWS	TWISTED INDIVIDUAL SHIELD
TWOS	TWISTED OUTER SHIELD
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES
UV	ULTRAVIOLET
V	VOLTS
VA	VOLT AMPS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
W	WATT
W/O	WITHOUT
WM	WATTMETER
WP	WEATHER PROOF
XFMR	TRANSFORMER

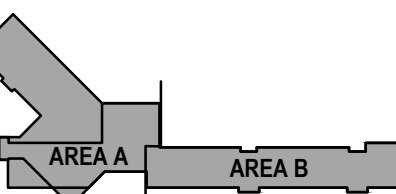


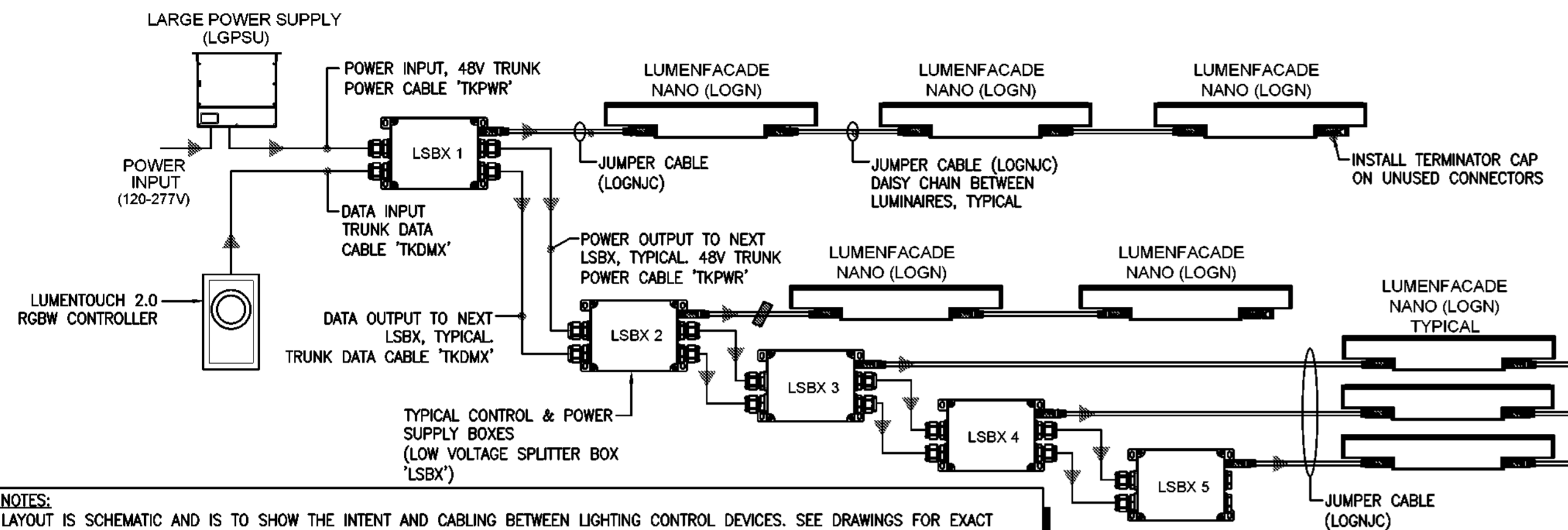
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Key Plan:

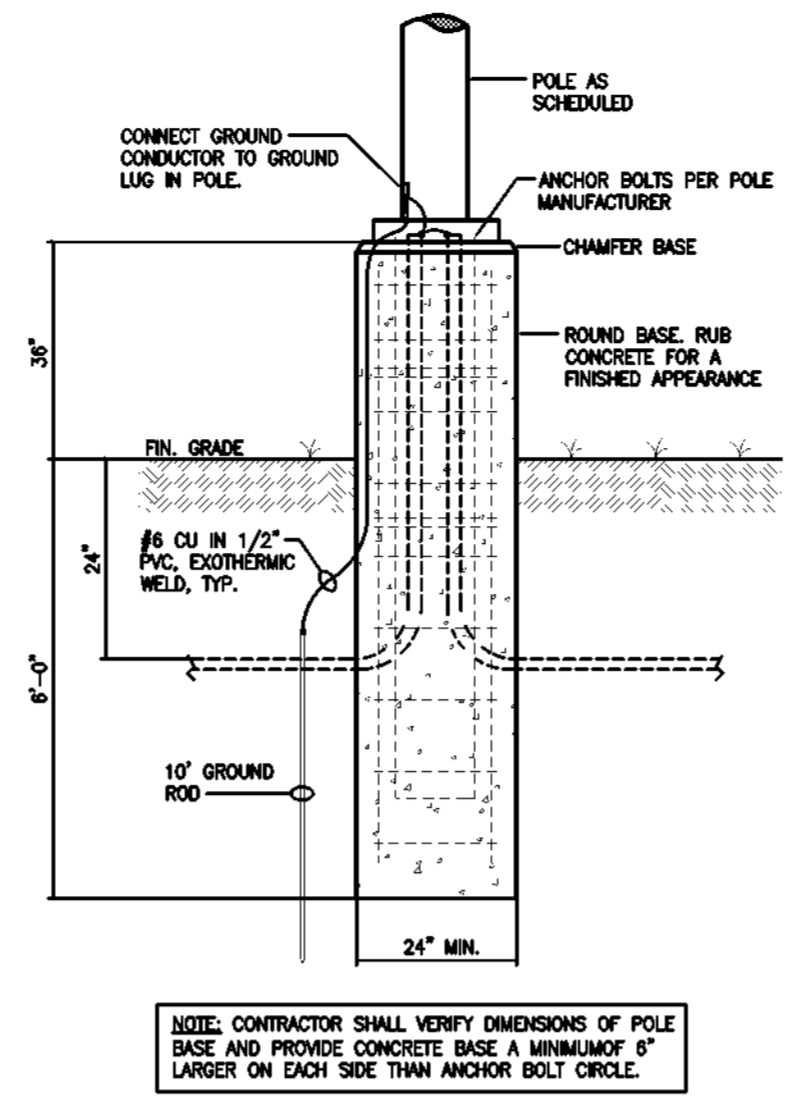




GENERAL NOTES:

- 1) THIS LAYOUT IS SCHEMATIC AND IS TO SHOW THE INTENT AND CABLING BETWEEN LIGHTING CONTROL DEVICES. SEE DRAWINGS FOR EXACT COUNT OF LUMINAIRES. COORDINATE WITH MANUFACTURER AND PROVIDE ALL REQUIRED EQUIPMENT FOR A FULLY FUNCTIONAL SYSTEM.
- 2) COMMISSIONING AND OWNER TRAINING OF SYSTEM SHALL BE INCLUDED IN SYSTEM COST, MANUFACTURER TO PROVIDE A MINIMUM OF 4 HOURS OF ON SITE TRAINING FOR OWNER PERSONNEL.
- 3) THE LARGE POWER SUPPLY (LGPSU) HAS A MAXIMUM OF 1000W (120V) OR 1200W (277V). PROVIDE ADDITIONAL LARGE POWER SUPPLIES AS REQUIRED, NOT TO EXCEED THESE WATTAGE LIMITS.
- 4) CONTROL AND POWER SUPPLY BOXES (LSBX) HAVE A MAXIMUM OF 200W FOR OUTPUT TO LUMINAIRES. PROVIDE ADDITIONAL LSBX UNITS AS REQUIRED, NOT TO EXCEED THESE WATTAGE LIMITS.

3 Typical Schematic Wiring for Lumenfacade Nano Fixtures
Scale: N.T.S.



2 Site Lighting Pole Base Detail
Scale: N.T.S.

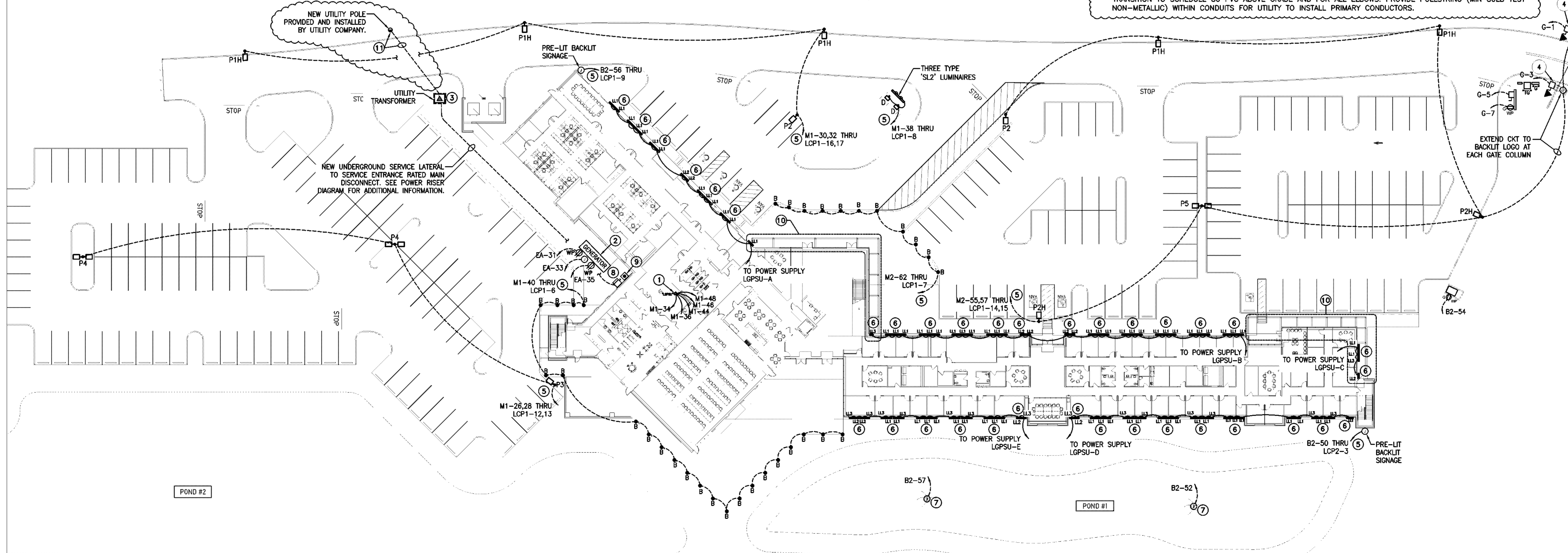
KEYED NOTES:

- 1) LUMENPULSE LARGE POWER SUPPLIES 'LGPSU' (LGPSU-A THRU LGPSU-N) UNITS TO POWER LUMENPULSE BUILDING WALL WASH LED FIXTURES, 1.2KW EACH, 277V, RACK MOUNTED. SEE DETAIL 3/E0.02 FOR ADDITIONAL REQUIREMENTS AND WIRING FOR LUMENPULSE LUMINAIRE INSTALLATION.
- 2) 400KW NATURAL GAS GENERATOR EQUAL TO CUMMINS MODEL #C400-N6. LEVEL 2 SOUND ENCLOSURE. THE INTAKE END TO HAVE APPROXIMATELY 12' OF CLEARANCE. CONSULT EQUIPMENT PROVIDER'S REQUIREMENTS PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
- 3) UTILITY PADMOUNT TRANSFORMER. COORDINATE WITH ELECTRICAL UTILITY COMPANY (ENTERGY).
- 4) POWER AND DATA CONNECTIONS AT GATE OPERATOR COLUMNS. DATA CONDUITS TO TERMINATE INSIDE BUILDING AT PRIMARY ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. CONSULT EQUIPMENT SPECSHEET FOR EXACT POWER REQUIREMENTS.
- 5) ROUTE THIS CIRCUIT THROUGH LIGHTING CONTROL PANEL LCP1, #10AWG CONDUCTORS IN 1" CONDUIT MINIMUM.
- 6) SCENE CONTROL LIGHTING SHALL BE CONTROLLED BY LUMENTOUCH 2.0 CONTROLLER OR EQUIVALENT AND CONTROLS CABLES SHALL BE DMX CABLING. FIXTURES TO BE MOUNTED AT UNDERSIDE OF OVERFRAMING SOFFIT.
- 7) FOUNTAIN EQUIPMENT, JUNCTION BOXES AND CONDUITS SHALL BE WATER TIGHT AND ALL CONDUITS AND JUNCTION BOXES RISING AT OR THROUGH THE FOUNTAIN SHALL HAVE SEAL-OFF FITTINGS.
- 8) SERVICE ENTRANCE RATED MAIN DISCONNECT, PROVIDE GROUND FAULT PROTECTION. SEE POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 9) EMERGENCY STOP FOR GENERATOR
- 10) SEE LIGHTING PLAN SHEETS E2.21 & E2.22 FOR SCREEN WALL LIGHTING AT THIS LOCATION.
- 11) CONTRACTOR TO ROUTE PRIMARY CONDUITS FROM NEW UTILITY POLE TO PADMOUNT TRANSFORMER. ROUTE THREE, 3" SCHEDULE 40 PVC CONDUITS MINIMUM 30" BELOW GRADE. RISE ON POLE PER UTILITY REQUIREMENTS, TRANSITION TO SCHEDULE 80 PVC ABOVE GRADE AND FOR ALL ELBOWS. PROVIDE PULLSTRING (MIN 80LB TEST NON-METALLIC) WITHIN CONDUITS FOR UTILITY TO INSTALL PRIMARY CONDUCTORS.

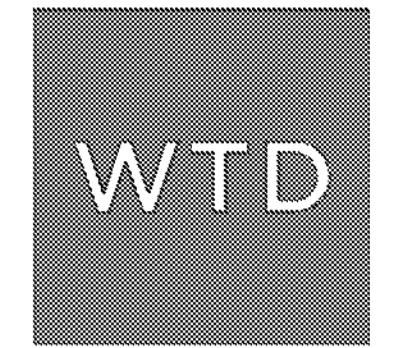
LIGHTING FIXTURE SCHEDULE						
SYMBOL	BRAND & CATALOG NO.	DESCRIPTION	VOLT	WATTS	LAMP	NOTES
• B	FORMS+SURFACES - HELIO BOLLARD SERIES 600 LBHLO-603	LED BOLLARD, ILLUMINATED	277	40	424LM LED	1
◻ D	LITHONIA LIGHTING DSXF1 P2 40K FL MVOLT PE	LED FLOOD LIGHT FIXTURE, TO LIGHT FLAG POLES. FINISH BY OWNER/ARCHITECT	277	42	5,000LM LED	1
◻ P1H	LITHONIA LIGHTING DSX2 LED P3 40K T2M MVOLT HS-PIRH1FC3V	LED PARKING LOT LIGHTING FIXTURE, WITH HOUSE SIDE SHIELD. MOUNTING HEIGHT: 25'	480	217	28,342LM LED	1
◻ P2	LITHONIA LIGHTING DSX2 LED P4 40K T4M MVOLT-PIRH1FC3V	LED PARKING LOT LIGHTING FIXTURE. MOUNTING HEIGHT: 25'	480	270	32,684LM LED	1
◻ P2H	LITHONIA LIGHTING DSX2 LED P4 40K T4M MVOLT HS-PIRH1FC3V	LED PARKING LOT LIGHTING FIXTURE, WITH HOUSE SIDE SHIELD. MOUNTING HEIGHT: 32'	480	270	32,684LM LED	1
◻ P3	LITHONIA LIGHTING DSX2 LED P4 40K T4M MVOLT-PIRH1FC3V	LED PARKING LOT LIGHTING FIXTURE. MOUNTING HEIGHT: 32'	480	270	33,390LM LED	1
◻ P4	LITHONIA LIGHTING DSX2 LED P3 40K T4M MVOLT-PIRH1FC3V	LED PARKING LOT LIGHTING FIXTURE, DOUBLE HEAD Ø 180'. MOUNTING HEIGHT: 32'	480	434	56,510LM LED	1
◻ P5	LITHONIA LIGHTING DSX2 LED P4 40K T4M MVOLT-PIRH1FC3V	LED PARKING LOT LIGHTING FIXTURE, DOUBLE HEAD Ø 180'. MOUNTING HEIGHT: 32'	480	540	66,780LM LED	1
◻ LL1	LUMENPULSE LUMENFACADE NANO LOGNH 8W 48 RGBW40K 10X10 WAMNH18 BRZ UCTL CRC UL	BUILDING WALL WASH LIGHT MOUNT AS INDICATED ON ARCHITECTURAL DRAWINGS.	120V	8W	1,487LM LED	1,2
◻ LL2	LUMENPULSE LUMENFACADE NANO LOGNH 8W 36 RGBW40K 10X10 WAMNH18 BRZ UCTL CRC UL	BUILDING WALL WASH LIGHT MOUNT AS INDICATED ON ARCHITECTURAL DRAWINGS.	120V	8W	1,487LM LED	1,2
◻ LL3	LUMENPULSE LUMENFACADE NANO LOGNH 8W 24 RGBW40K 10X10 WAMNH18 BRZ UCTL CRC UL	BUILDING WALL WASH LIGHT MOUNT AS INDICATED ON ARCHITECTURAL DRAWINGS.	120V	8W	1,487LM LED	1,2
◻ SL2	VISTA LIGHTING 1054KM-B-WW-40K-A-277V-MV-VR	LINEAR LED FLOOD LIGHT	277	52	5,000LM LED	1

LUMINAIRE NOTES:

- 1) EQUAL LUMINAIRES ARE ALLOWED, ANY SUBSTITUTED EQUAL LUMINAIRE MUST BE EQUAL TO THE SPECIFIED LUMINAIRE: IN QUALITY, MATERIAL, WARRANTY, PHOTOMETRICALLY, WATTAGE, SIZE, AND FINISH.
- 2) LL1, LL2, LL3 TO BE CONNECTED TO POWER SUPPLY AS RECOMMENDED BY OEM. BASIS OF DESIGN POWER SUPPLY IS LGPSU BY LUMENPULSE.



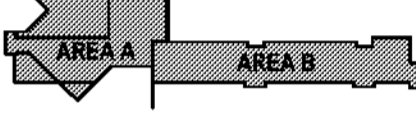
1 Site Electrical Plan
Scale: 1"=30'-0"



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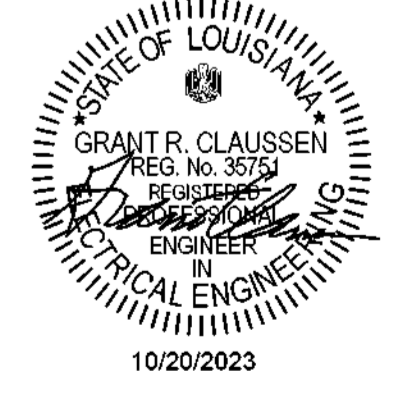
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Phase: Bid Documents
Date: 10-26-23
Revisions:



Professional Seal
Scale: As Noted
SM Description:
Site Electrical Plan

North
E0.02



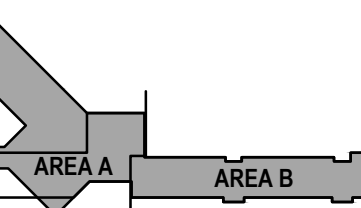
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Key Plan:



Consultants:



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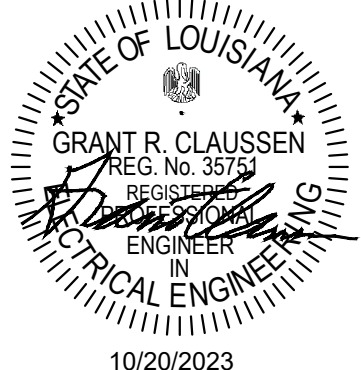
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Baton Rouge, LA 70817

Phase: Bid Documents

Date: 10-26-23

Revisions:

PERMIT REVISIONS 4.15.24



Professional Seal

Scale: (not to scale)

Sht Description:

Overall First Floor Power Plan

North

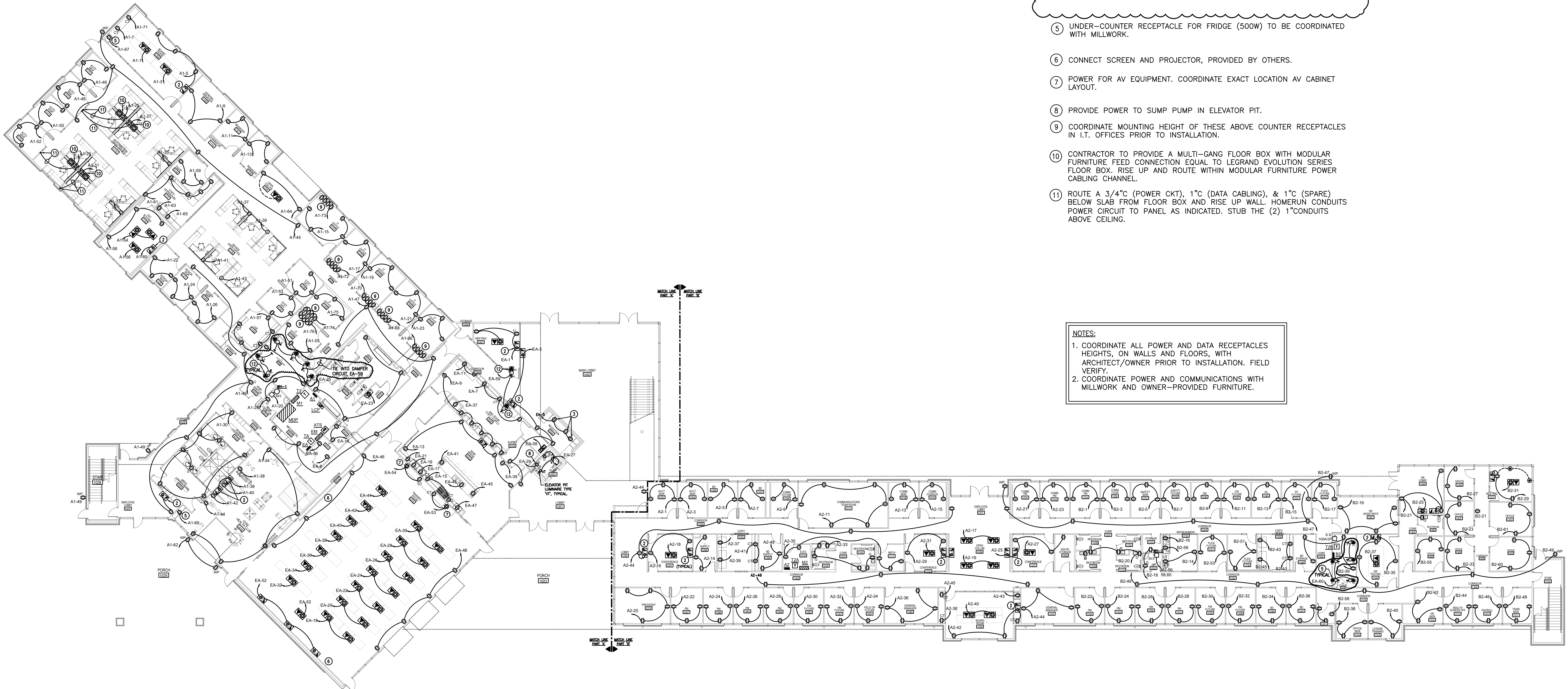
E1.10

KEYED NOTES:

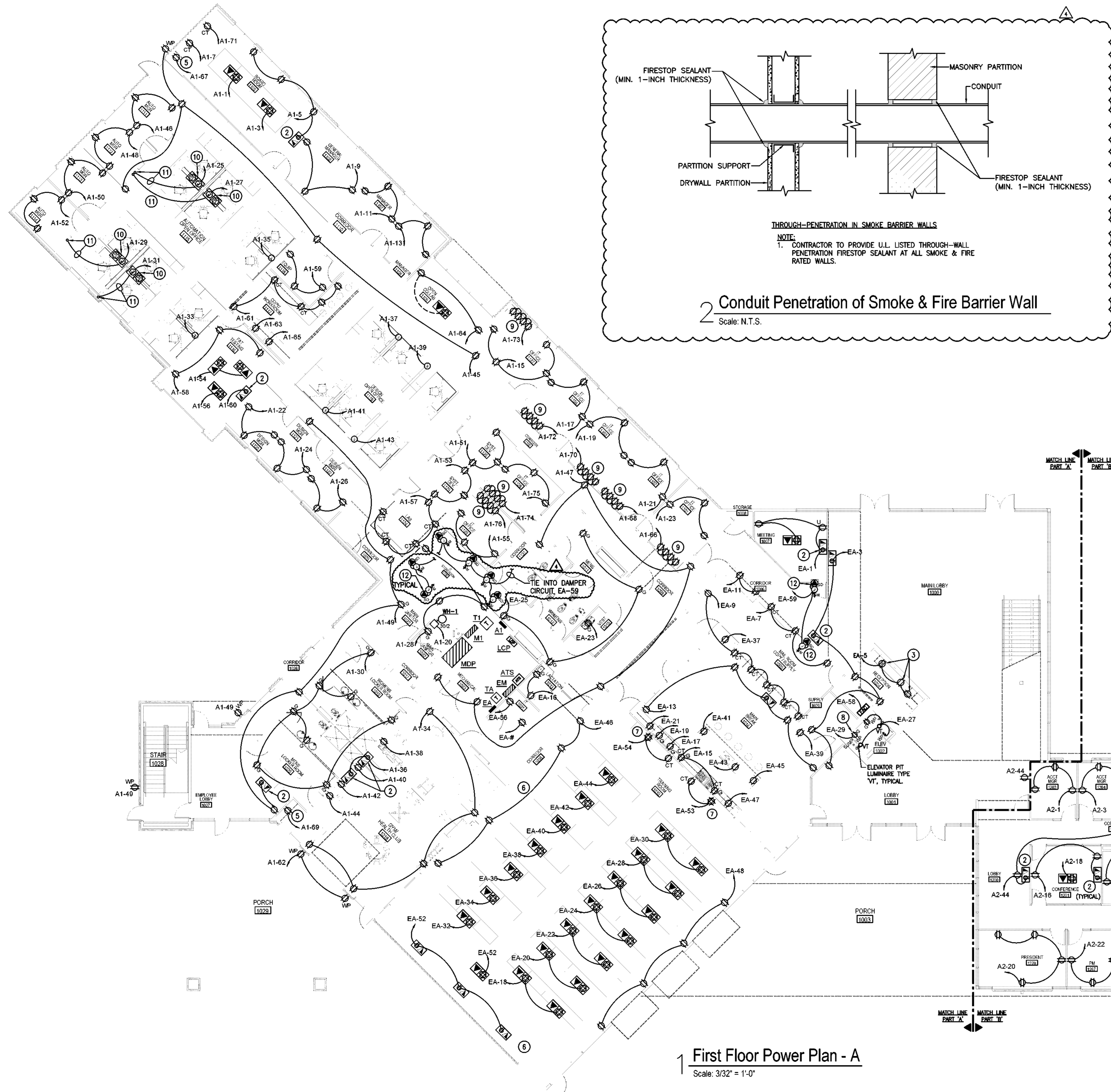
- ① JUNCTION BOX TO PROVIDE POWER FOR FURNITURE RECEPTACLES FOR DESKS AT OPEN OFFICE. POWER TO RUN BELOW FINISHED FLOOR TO NEAREST WALL. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH FURNITURE PROVIDER PRIOR TO INSTALLATION. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. VERIFY COVER WITH OWNER/ARCHITECT.
- ② RECEPTACLE FOR WALL MOUNTED TV. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH NEWTRON GROUP PRIOR TO INSTALLATION/ROUGH-IN.
- ③ POWER AND DATA RECEPTACLES AT THE RECEPTION DESK. COORDINATE WITH MILLWORK AND NEWTRON GROUP PRIOR TO INSTALLATION. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS.
- ④ DELETED
- ⑤ UNDER-COUNTER RECEPTACLE FOR FRIDGE (500W) TO BE COORDINATED WITH MILLWORK.
- ⑥ CONNECT SCREEN AND PROJECTOR, PROVIDED BY OTHERS.
- ⑦ POWER FOR AV EQUIPMENT. COORDINATE EXACT LOCATION AV CABINET LAYOUT.
- ⑧ PROVIDE POWER TO SUMP PUMP IN ELEVATOR PIT.
- ⑨ COORDINATE MOUNTING HEIGHT OF THESE ABOVE COUNTER RECEPTACLES IN I.T. OFFICES PRIOR TO INSTALLATION.
- ⑩ CONTRACTOR TO PROVIDE A MULTI-GANG FLOOR BOX WITH MODULAR FURNITURE FEED CONNECTION EQUAL TO LEGRAND EVOLUTION SERIES FLOOR BOX. RISE UP AND ROUTE WITHIN MODULAR FURNITURE POWER CABLING CHANNEL.
- ⑪ ROUTE A 3/4" (POWER CKT), 1" (DATA CABLING), & 1" (SPARE) BELOW SLAB FROM FLOOR BOX AND RISE UP WALL. HOMERUN CONDUITS POWER CIRCUIT TO PANEL AS INDICATED. STUB THE (2) 1" CONDUITS ABOVE CEILING.

NOTES:

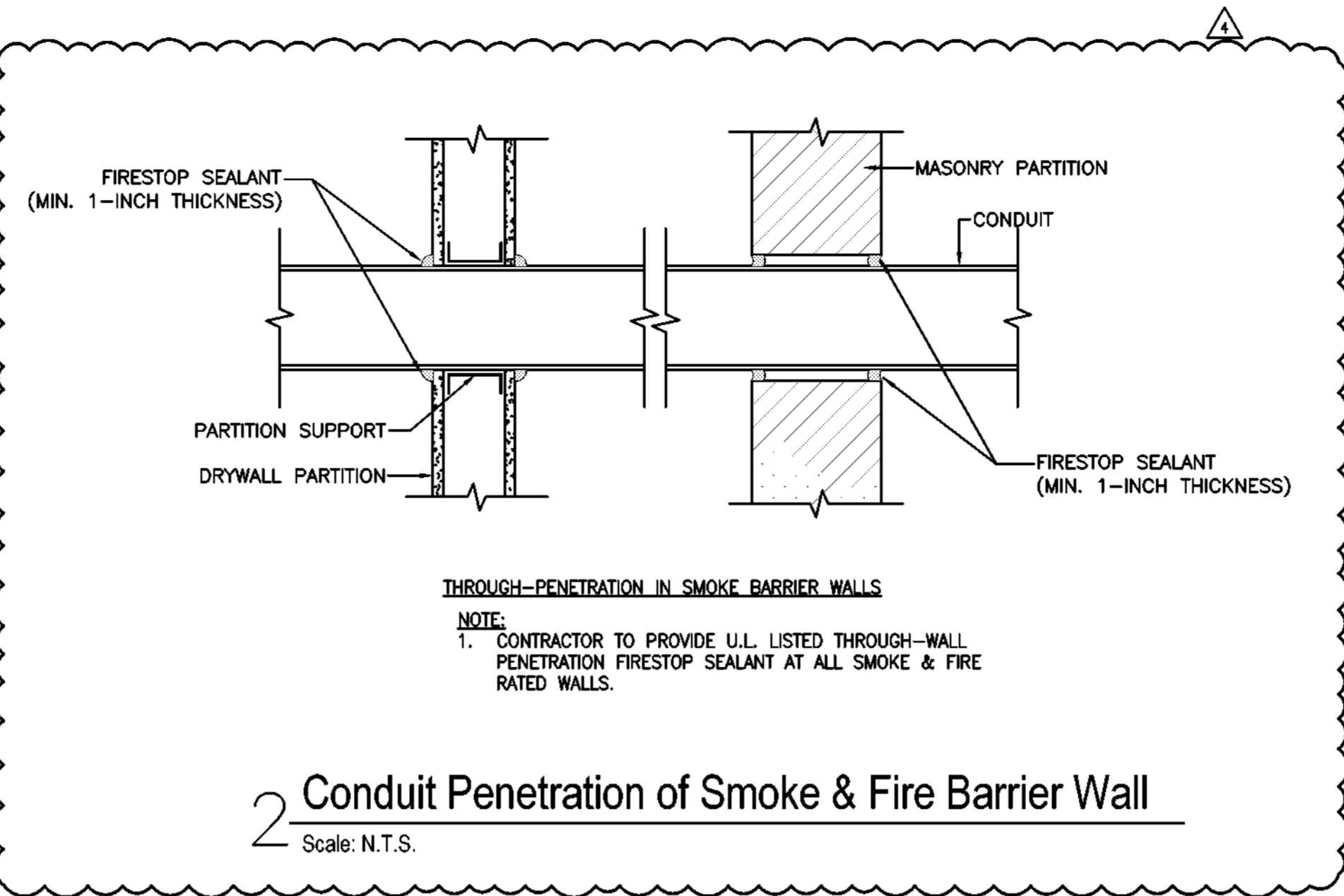
1. COORDINATE ALL POWER AND DATA RECEPTACLES HEIGHTS, ON WALLS AND FLOORS, WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. FIELD VERIFY.
2. COORDINATE POWER AND COMMUNICATIONS WITH MILLWORK AND OWNER-PROVIDED FURNITURE.



1 Overall First Floor Power Plan
Scale: (not to scale)



1 First Floor Power Plan - A
Scale: 3/32" = 1'-0"



GENERAL NOTE:

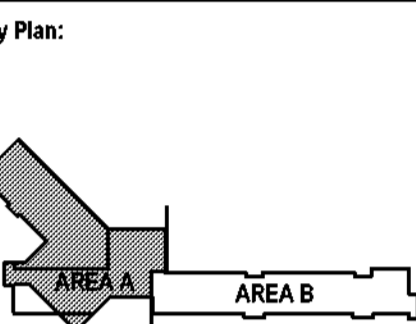
1. CONTRACTOR TO PROVIDE U.L. LISTED THROUGH-WALL PENETRATION FIRESTOP SEALANT AT ALL SMOKE & FIRE RATED WALLS. FIRE SAFE SEALANT TO MATCH WALL RATING AS INDICATED ON ARCHITECTURAL LIFE SAFETY PLAN LS1.01.

- KEYED NOTES:**
- JUNCTION BOX TO PROVIDE POWER FOR FURNITURE RECEPTACLES FOR DESKS AT OPEN OFFICE. POWER TO RUN BELOW FINISHED FLOOR TO NEAREST WALL. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH FURNITURE PROVIDER PRIOR TO INSTALLATION. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. VERIFY COVER WITH OWNER/ARCHITECT.
 - RECEPTACLE FOR WALL MOUNTED TV. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH NEWTRON GROUP PRIOR TO INSTALLATION/ROUGH-IN.
 - POWER AND DATA RECEPTACLES AT THE RECEPTION DESK. COORDINATE WITH MILLWORK AND NEWTRON GROUP PRIOR TO INSTALLATION. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS.
 - DELETED

- UNDER-COUNTER RECEPTACLE FOR FRIDGE (500W) TO BE COORDINATED WITH MILLWORK.
- CONNECT SCREEN AND PROJECTOR, PROVIDED BY OTHERS.
- POWER FOR AV EQUIPMENT. COORDINATE EXACT LOCATION AV CABINET LAYOUT.
- PROVIDE POWER TO SUMP PUMP IN ELEVATOR PIT.
- COORDINATE MOUNTING HEIGHT OF THESE ABOVE COUNTER RECEPTACLES IN I.T. OFFICES PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE A MULTI-GANG FLOOR BOX WITH MODULAR FURNITURE FEED CONNECTION EQUAL TO LEGRAND EVOLUTION SERIES FLOOR BOX. RISE UP AND ROUTE WITHIN MODULAR FURNITURE POWER CABLING CHANNEL.
- ROUTE A 3/4" (POWER CKT), 1" (DATA CABLING), & 1" (SPARE) BELOW SLAB FROM FLOOR BOX AND RISE UP WALL. HOMERUN CONDUITS POWER CIRCUIT TO PANEL AS INDICATED. STUB THE (2) 1" CONDUITS ABOVE CEILING.
- MAKE CONNECTION TO SMOKE DAMPERS, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

NOTES:

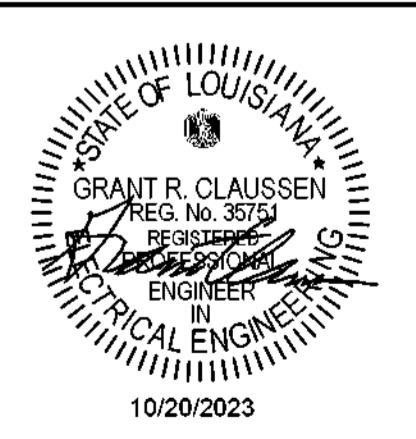
- COORDINATE ALL POWER AND DATA RECEPTACLES HEIGHTS, ON WALLS AND FLOORS, WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. FIELD VERIFY.
- COORDINATE POWER AND COMMUNICATIONS WITH MILLWORK AND OWNER-PROVIDED FURNITURE.



Phase: Bid Documents
Date: 10-26-23

Revisions:

REVISIONS 10.20.23
REVISIONS 3.8.24
PERMIT REVISIONS 4.1.24
PERMIT REVISIONS 4.15.24

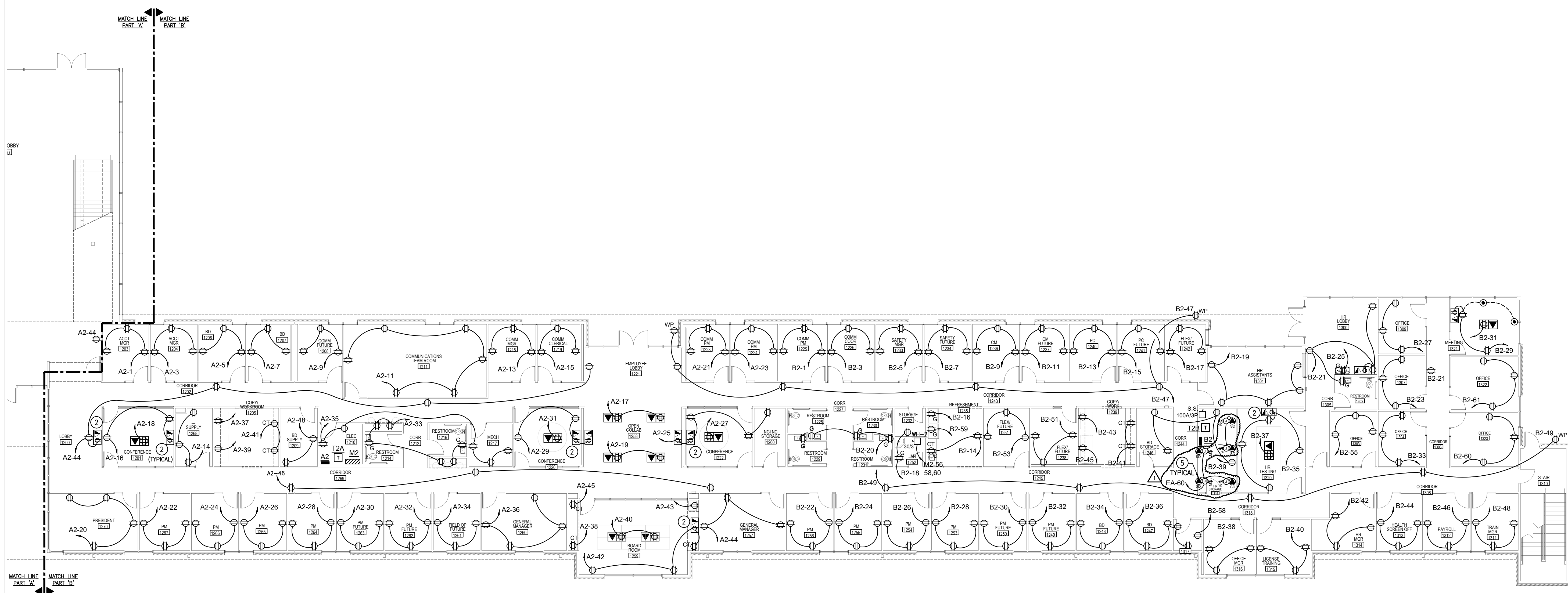


Professional Seal
Scale: 3/32" = 1'-0"
SM Description:
First Floor Power Plan Part - A'

KEYED NOTES:

- ① NOT USED.
- ② RECEPTACLE FOR WALL MOUNTED TV. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH NEWTRON GROUP PRIOR TO INSTALLATION/ROUGH-IN.
- ③ NOT USED.
- ④ DELETED
- ⑤ MAKE CONNECTION TO SMOKE DAMPERS, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

NOTE:
COORDINATE ALL POWER AND DATA RECEPTACLE HEIGHTS, ON WALLS AND FLOORS, WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. FIELD VERIFY.



1 First Floor Power Plan - B
Scale: 3/32" = 1'-0"

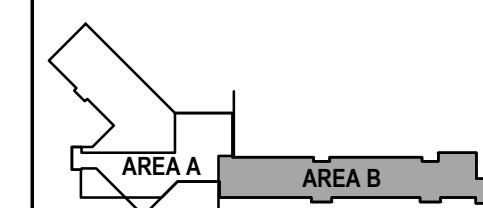


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Key Plan:



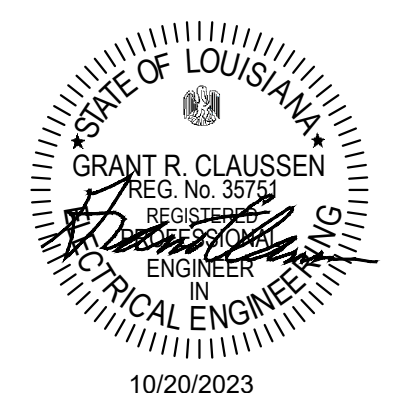
Consultants:



GSE
Gulf States Engineering, Inc.
Gulfport Mobile Nashville
1816 Pass Rd. Gulfport, MS 39501
(1228-864-5050) (1228-864-7744)

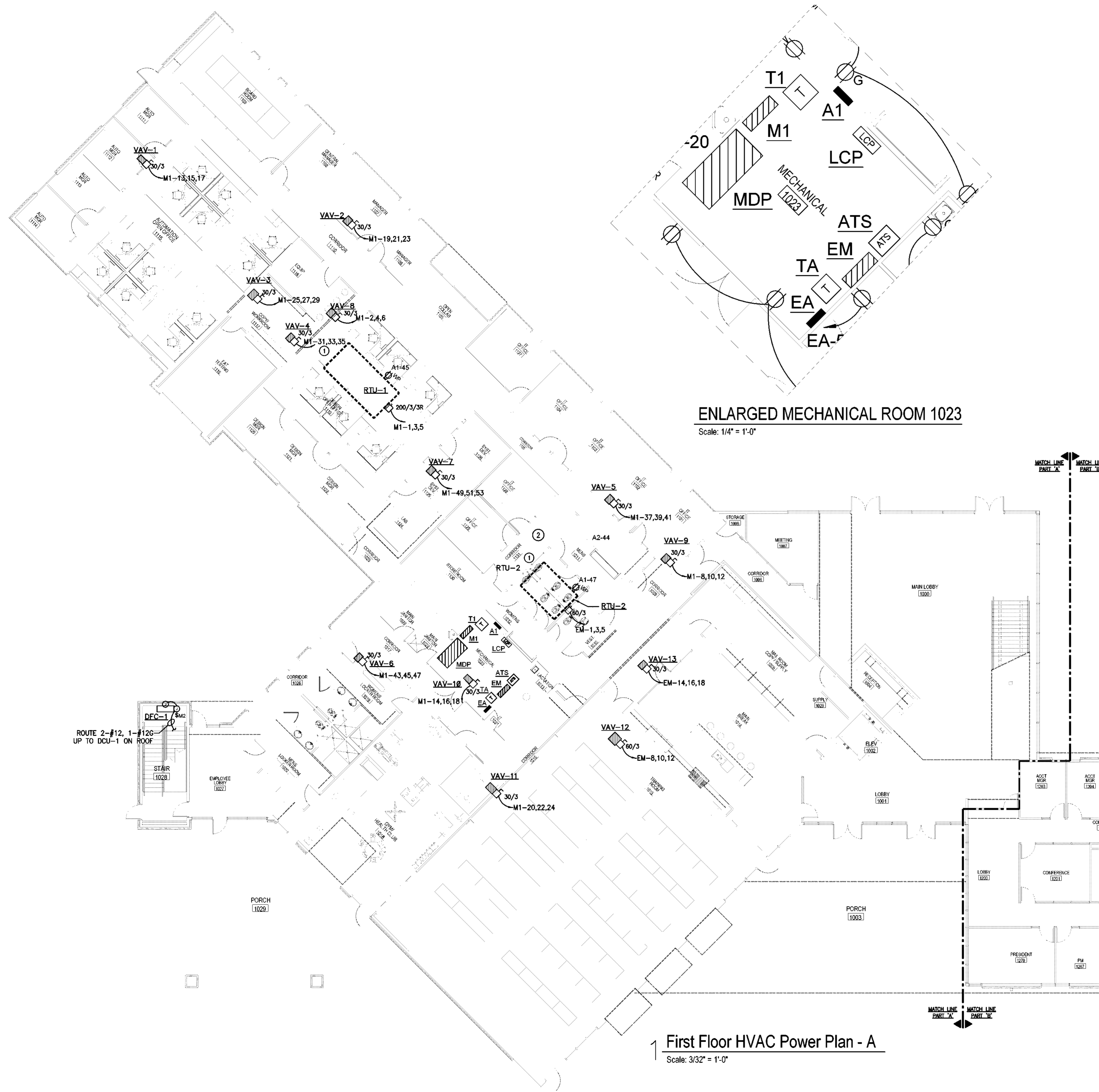
The Newtron Group
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13820 Airline Highway
Baton Rouge, LA 70817

Phase: Bid Documents
Date: 10-26-23
Revisions:
① PERMIT REVISIONS 4.15.24



Professional Seal
Scale: 3/32" = 1'-0"
Sht Description:
First Floor Power Plan Part - B'

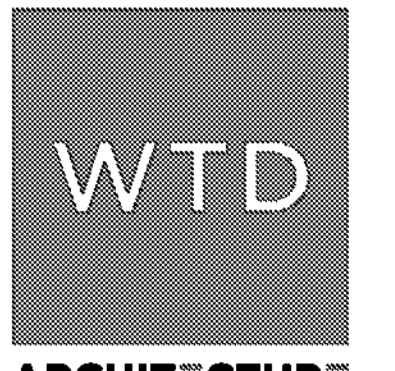
North
E1.12



- GENERAL NOTES:**
1. ALL RTU HVAC UNITS ARE ON THE ROOF. PROVIDE A UNIT-STRUT RACK FOR MOUNTING OF SAFETY SWITCH AT EACH RTU UNIT. FASTEN TO ROOF DECK, COORDINATE WITH ROOFING CONTRACTOR. PROVIDE A WEATHERPROOF RECEPTACLE AT EACH ROOF TOP RTU UNIT AND HOMERUN TO CIRCUIT AS INDICATED.
 2. SEE LIGHTING PLAN FOR CONNECTION TO RESTROOM EXHAUST FANS.

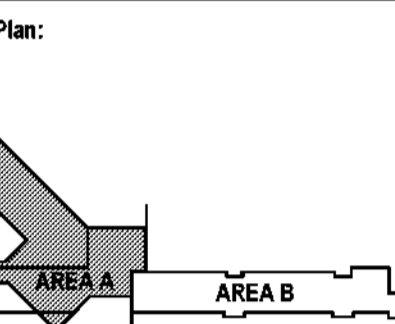
ENLARGED MECHANICAL ROOM 1023
Scale: 1/4" = 1'-0"

1 First Floor HVAC Power Plan - A
Scale: 3/32" = 1'-0"



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Consultants:

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1815 Pops Rd. Gulfport, MS 39501
P: 228-864-1595 F: 228-864-1744

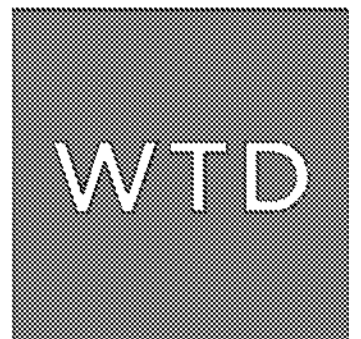
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13820 Airline Highway
Baton Rouge, LA, 70817

Phase: Bid Documents
Date: 10-26-23
Revisions:

STATE OF LOUISIANA
GRANT R. CLAUSSEN
REG. No. 35743
PROFESSIONAL
ENGINEER
IN
ELECTRICAL ENGINEERING
10/20/2023

Professional Seal
Scale: 3/32" = 1'-0"
Sheet Description:
First Floor HVAC Power Plan
Part - 'A'

North
E1.13



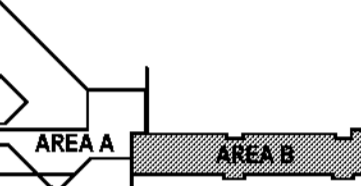
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Key Plan:



Consultants:



Gulf States Engineering, Inc.
Gulfport Mobile Nashville
1815 Pass Rd. Chiffort, MS 39551
IT:228-264-1050 OF:228-264-7744

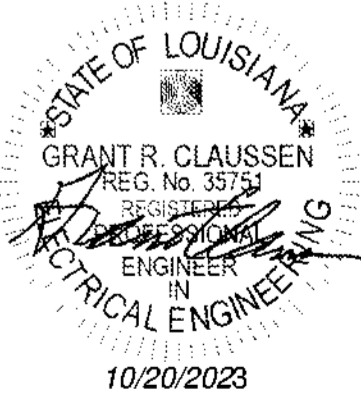
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Date: 10-26-23

Revisions:

NO.	DESCRIPTION

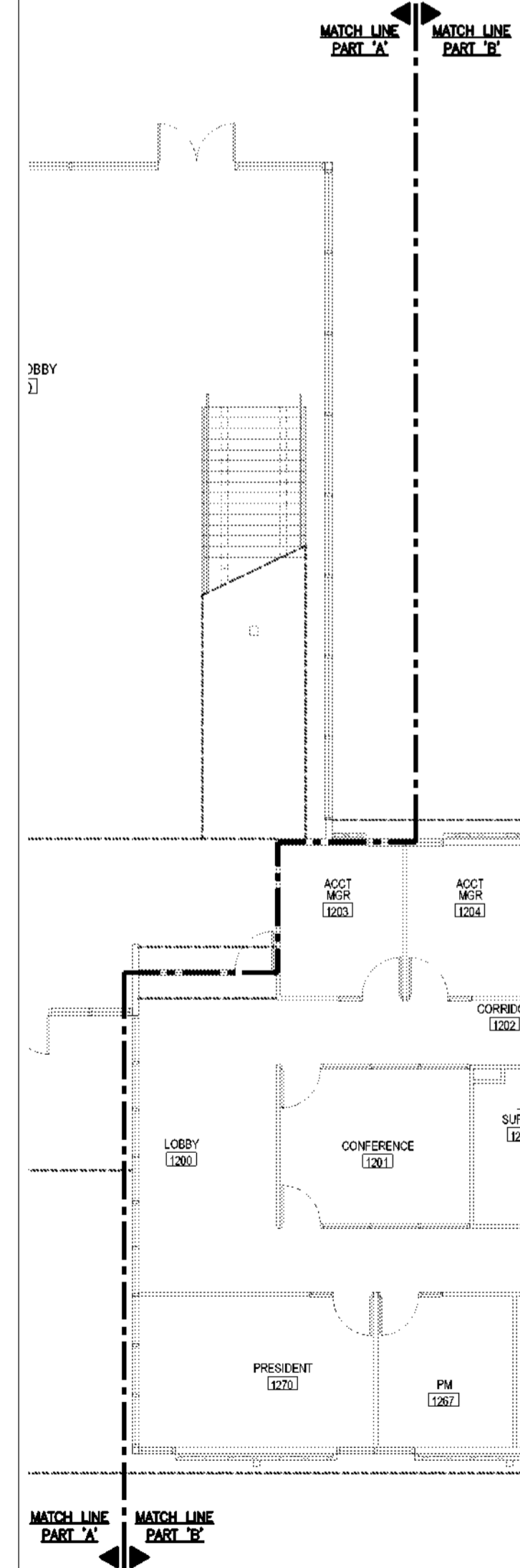


Professional Seal

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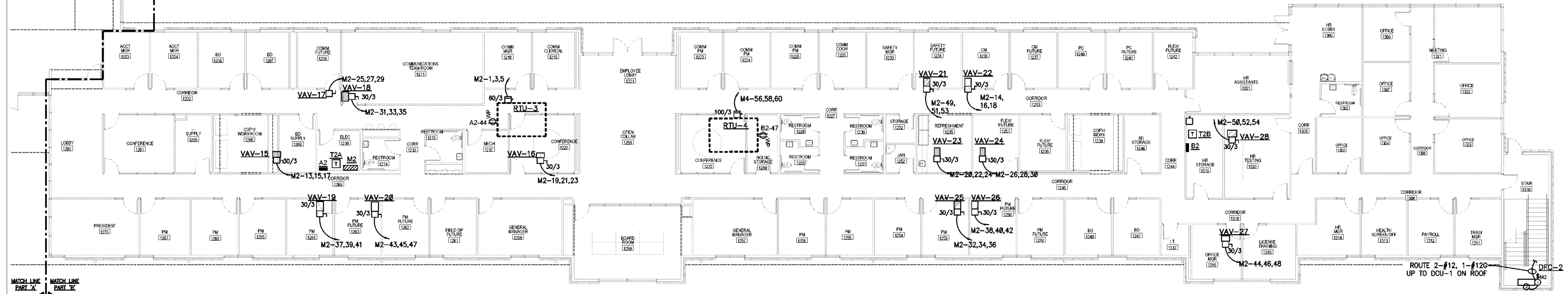
Sheet Description:
**First Floor HVAC Power Plan
Part - B'**

North
E1.14



GENERAL NOTES:

1. ALL RTU HVAC UNITS ARE ON THE ROOF. PROVIDE A UNIT-STRUT RACK FOR MOUNTING OF SAFETY SWITCH AT EACH RTU UNIT. FASTEN TO ROOF DECK, COORDINATE WITH ROOFING CONTRACTOR. PROVIDE A WEATHERPROOF RECEPTACLE AT EACH ROOF TOP RTU UNIT AND HOMERUN TO CIRCUIT AS INDICATED.
2. SEE LIGHTING PLAN FOR CONNECTION TO RESTROOM EXHAUST FANS.



1 First Floor HVAC Power Plan - B
Scale: 3/32" = 1'-0"

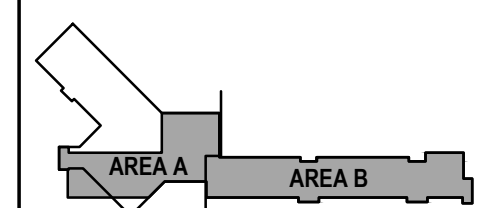


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Key Plan:



Consultants:



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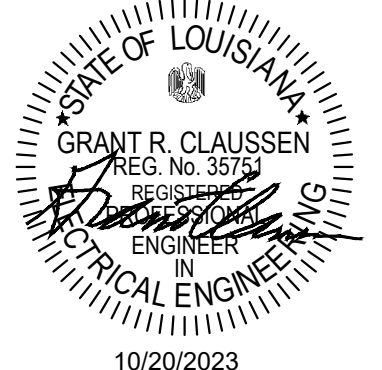
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Phase: Bid Documents

Date: 10-26-23

Revisions:

PERMIT REVISIONS 4.15.24



Professional Seal

Scale: N.T.S.

Sht Description:

Overall Second Floor Power Plan

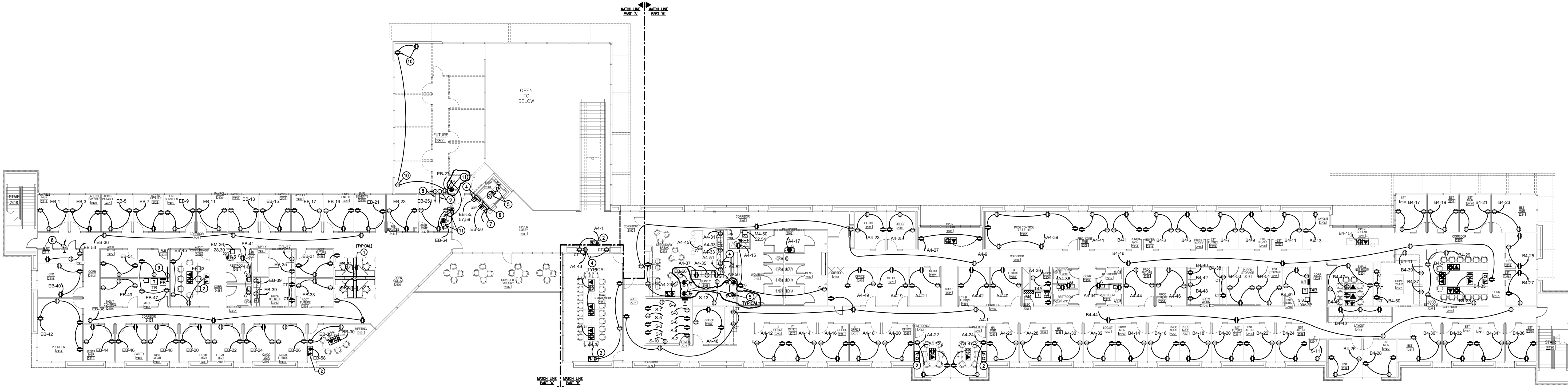
North E1.20

KEYED NOTES:

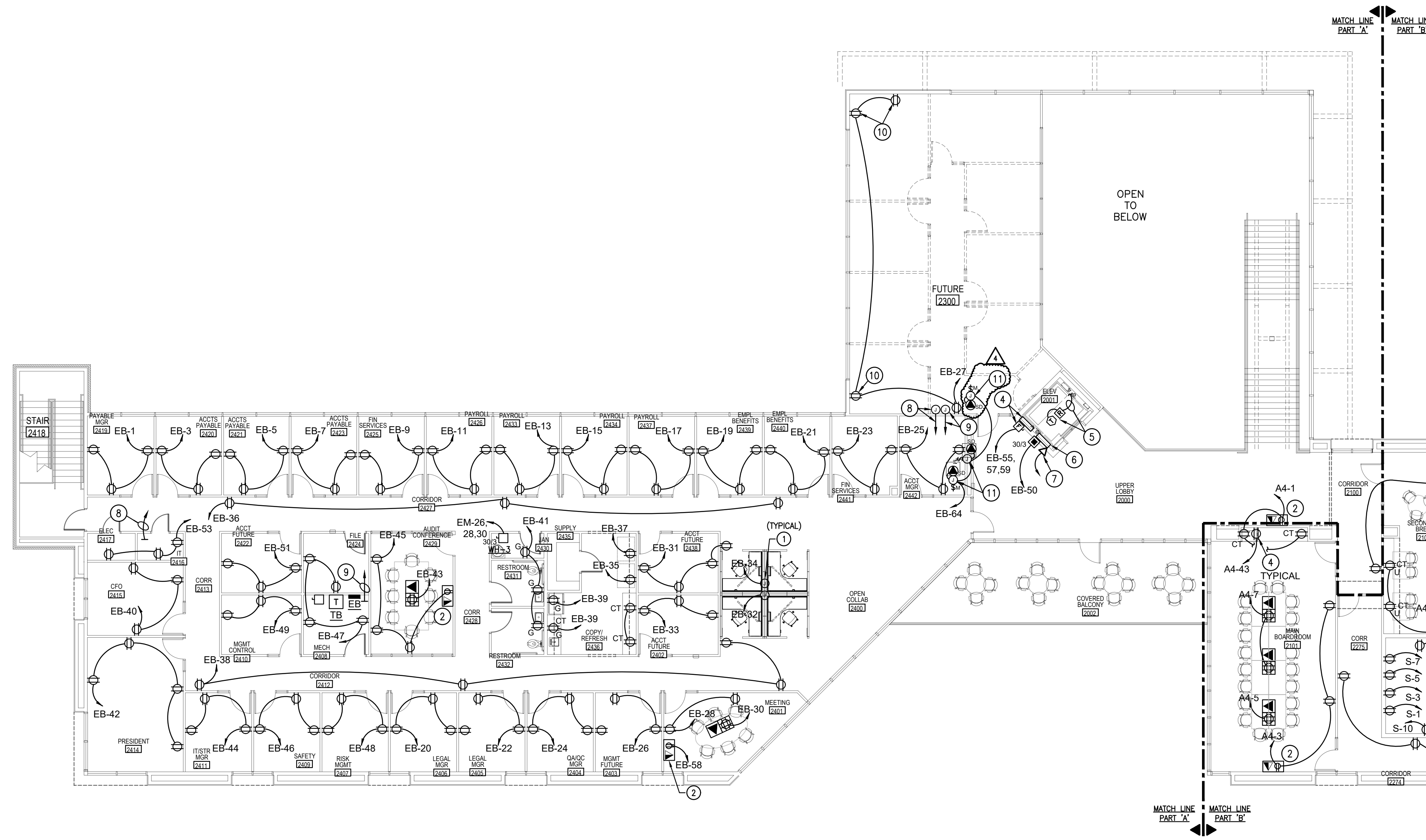
- ① JUNCTION BOX TO PROVIDE POWER FOR FURNITURE RECEPTACLES FOR DESKS AT OPEN OFFICE. POWER TO RUN BELOW FINISHED FLOOR TO NEAREST WALL. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH FURNITURE PROVIDER PRIOR TO INSTALLATION. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. VERIFY COVER WITH OWNER/ARCHITECT.
- ② RECEPTACLE FOR WALL MOUNTED TV. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH NEWTRON GROUP PRIOR TO INSTALLATION/ROUGH-IN.

DELETED ③

NOTE:
 COORDINATE ALL POWER AND DATA RECEPTACLES HEIGHTS, ON WALLS AND FLOORS, WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. FIELD VERIFY.



1 Overall Second Floor Power Plan
 Scale: (not to scale)

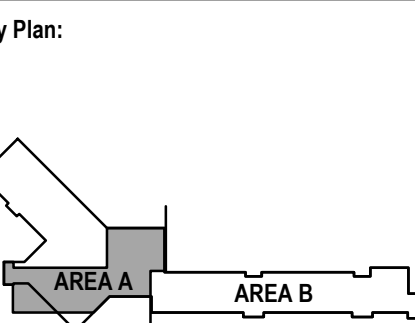


1 Second Floor Power Plan - A
Scale: 3/32" = 1'-0"

KEYED NOTES:

- 1 JUNCTION BOX TO PROVIDE POWER FOR FURNITURE RECEPTACLES FOR DESKS AT OPEN OFFICE. POWER TO RUN BELOW FINISHED FLOOR TO NEAREST WALL. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH FURNITURE PROVIDER PRIOR TO INSTALLATION. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. VERIFY COVER WITH OWNER/ARCHITECT.
- 2 RECEPTACLE FOR WALL MOUNTED TV. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH NEWTRON GROUP PRIOR TO INSTALLATION/ROUGH-IN.
- 3 **DELETED**
- 4 PROVIDE A 100A/3P FUSED SAFETY SWITCH AT ELEVATOR MOTOR CONTROLLER, FUSE PER MANUFACTURER'S REQUIREMENTS. EXTEND TO MOTOR POWER UNIT AS REQUIRED PER MANUFACTURER'S RECOMMENDATION. COORDINATE EXACT ROUTING REQUIREMENTS WITH VENDOR/SUPPLIER. THE EXACT LOCATION OF CONTROLLER, DISCONNECTS, ETC TO BE DETERMINED IN THE FIELD AND COORDINATED BETWEEN ELECTRICAL CONTRACTOR AND ELEVATOR INSTALLER.
- 5 NORMALLY CLOSED 120V/24V SUPERVISED RELAY, ROUTE TO SHUNT TRIP OPERATOR AT ELEVATOR SHUNT TRIP CIRCUIT BREAKER IN PANEL. ACTIVATION OF HEAT DETECTOR AND/OR FLOW SWITCH SHALL OPEN RELAY WITH THE FOLLOWING SEQUENCE OF OPERATION, COORDINATE WITH FIRE PROTECTION/ALARM CONTRACTOR.
 - A) SHUNT TRIP POWER TO ELEVATOR VIA SHUNT TRIP CIRCUIT BREAKER.
 - B) OPEN SOLENOID VALVE ON SPRINKLER LINE.
- 6 ELEVATOR CAB CONTROLS/LIGHTING. PROVIDE A 20A/1P ENCLOSED CIRCUIT BREAKER, COORDINATE CONNECTION REQUIREMENTS WITH ELEVATOR INSTALLER.
- 7 PROVIDE A DEDICATED PHONE LINE CONNECTION AT ELEVATOR PHONE BOX. HOMERUN TELEPHONE CABLING TO COMM ROOM. COORDINATE EXACT PHONE BOX LOCATION WITH ELEVATOR SUPPLIER.
- 8 ROUTE (2) 1.25" CONDUITS WITH PULLCORDS FOR FUTURE COMMUNICATIONS CABLING TO FUTURE BUILD OUT SPACE. HOMERUN AND STUB/CAP IN I.T. ROOM #2416. TERMINATE IN JUNCTION BOX AT CEILING STRUCTURE.
- 9 ROUTE (2) 1" CONDUITS WITH PULLCORDS AND TERMINATE ABOVE PANELBOARDS IN MECH ROOM #2408 FOR POWER IN FUTURE BUILD OUT SPACE. TERMINATE IN JUNCTION BOX AT CEILING STRUCTURE.
- 10 INSTALL RECEPTACLES IF EXTERIOR WALLS WILL BE FINISHED WITH GYPSUM AND INSULATION IN FUTURE SPACE. OMIT INSTALLATION IF THESE WALLS WILL REMAIN UNFINISHED UNTIL BUILD OUT.
- 11 MAKE CONNECTION TO SMOKE DAMPERS, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

NOTE:
COORDINATE ALL POWER AND DATA RECEPTACLES HEIGHTS, ON WALLS AND FLOORS, WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. FIELD VERIFY.

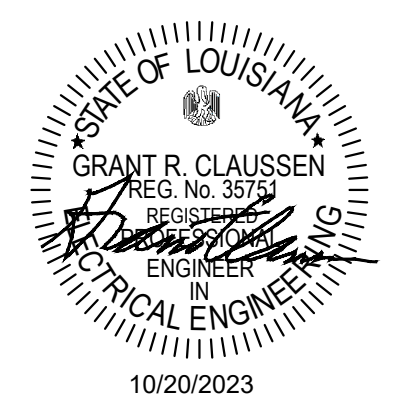


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Phase: Bid Documents
Date: 10-26-23

Revisions:

1	REVISIONS 10.20.23
2	REVISIONS 3.8.24
3	PERMIT REVISIONS 4.1.24
4	PERMIT REVISIONS 4.15.24



Professional Seal
Scale: 3/32" = 1'-0"
Sht Description:
Second Floor Power Plan
Part - 'A'

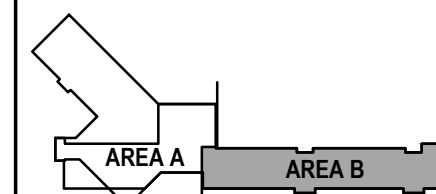


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Key Plan:



Consultants:



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 Gulf States Engineering, Inc.
 Gulfport Mobile Nashville
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 (T)228-864-5050 (F)228-864-7744

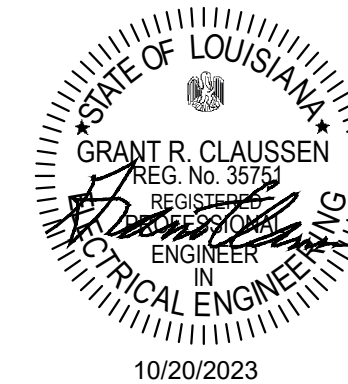
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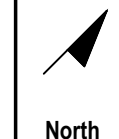


Professional Seal

Scale: 3/32" = 1'-0"

Sheet Description:

Second Floor Power Plan
 Part - 'B'

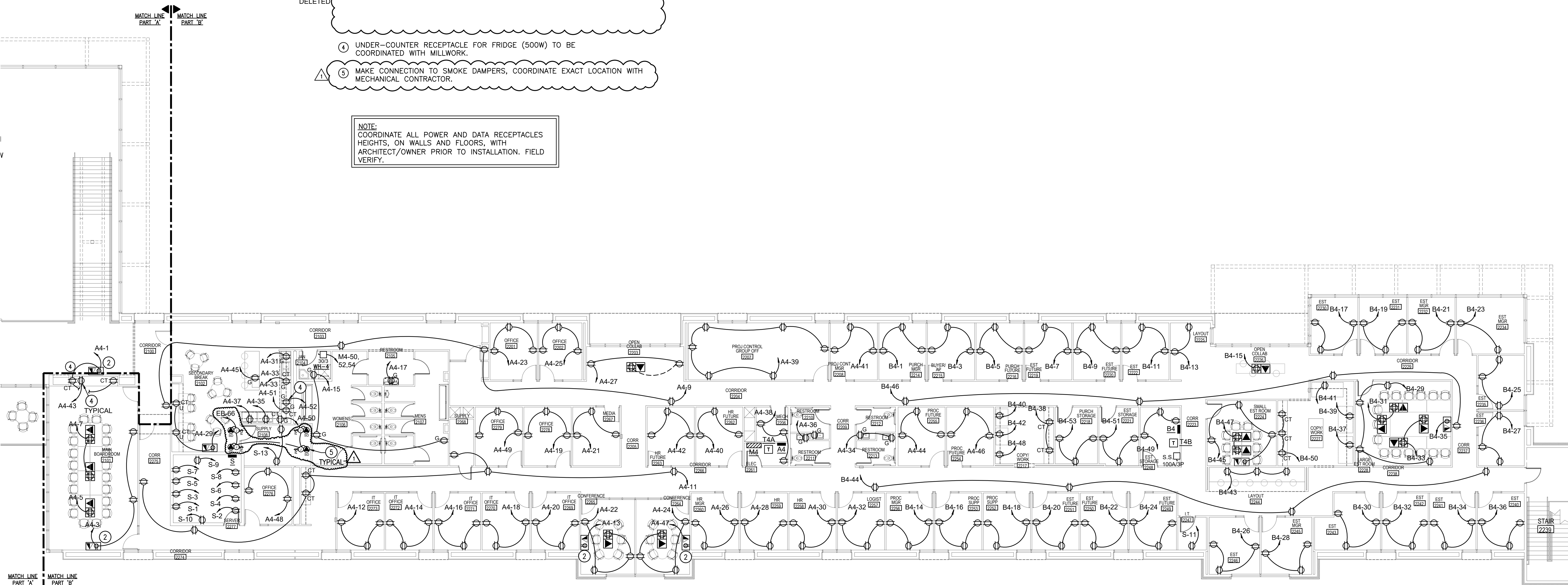


E1.22

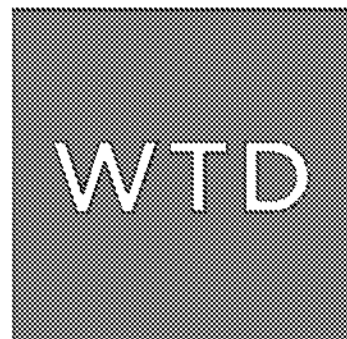
KEYED NOTES:

- ① NOT USED
- ② RECEPTACLE FOR WALL MOUNTED TV. SEE TELECOMMUNICATIONS PATHWAY PLANS FOR LOW VOLTAGE DETAILS. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH NEWTRON GROUP PRIOR TO INSTALLATION/ROUGH-IN.
- ③ DELETED
- ④ UNDER-COUNTER RECEPTACLE FOR FRIDGE (500W) TO BE COORDINATED WITH MILLWORK.
- ⑤ MAKE CONNECTION TO SMOKE DAMPERS, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

NOTE:
 COORDINATE ALL POWER AND DATA RECEPTACLES HEIGHTS, ON WALLS AND FLOORS, WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. FIELD VERIFY.



1 Second Floor Power Plan - B
 Scale: 3/32" = 1'-0"



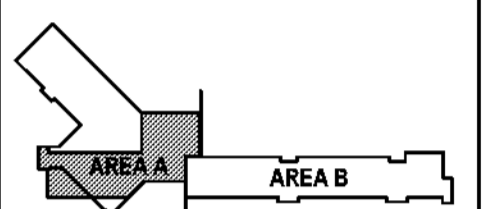
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Key Plan:



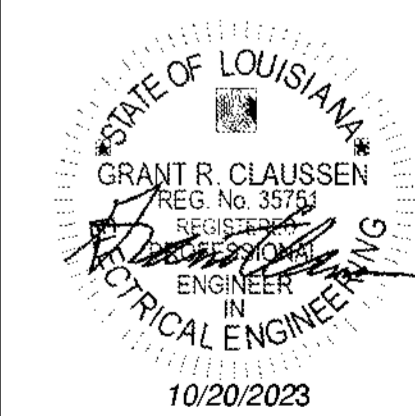
Consultants:



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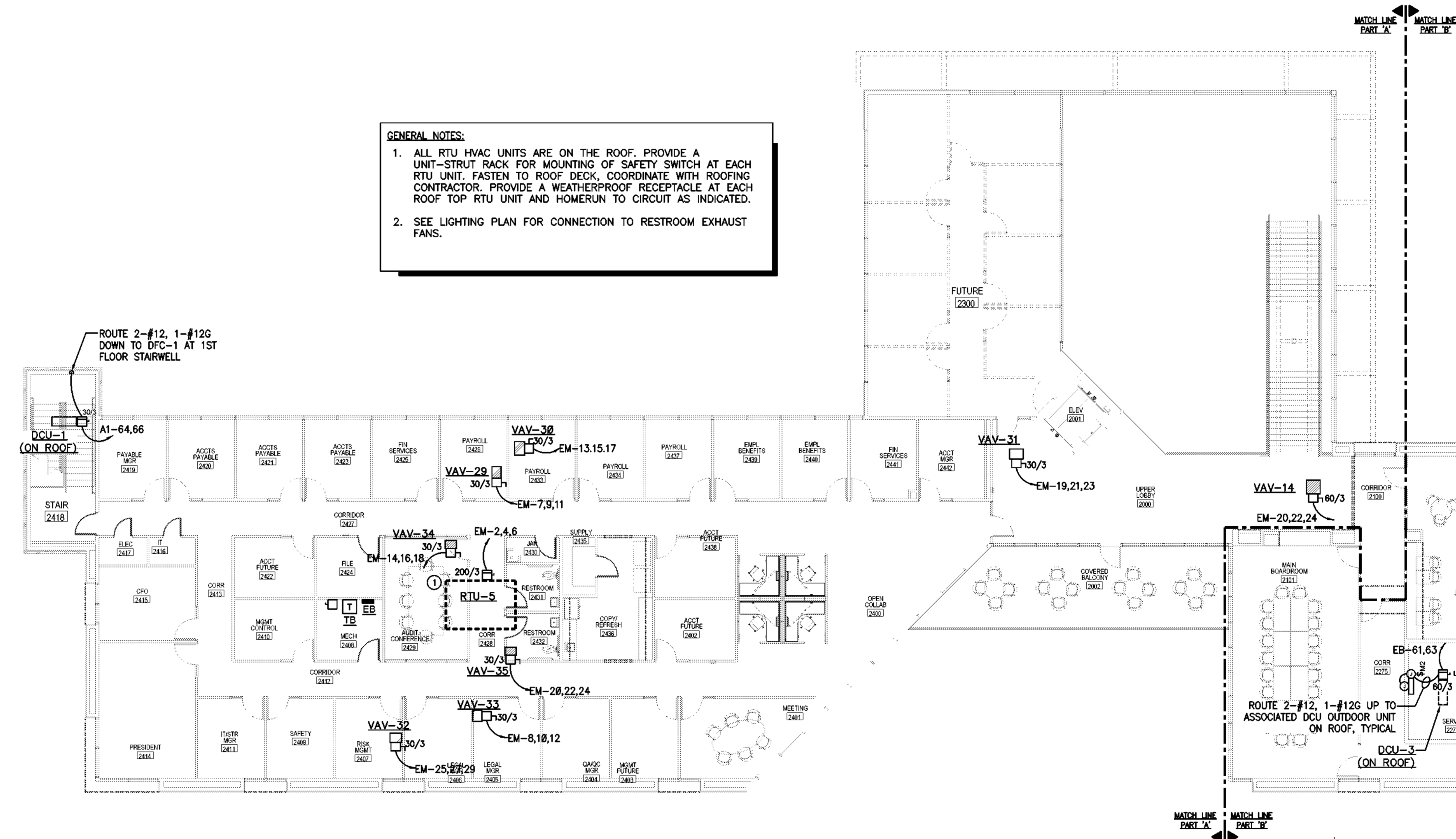
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Date: 10-26-23
Revisions:



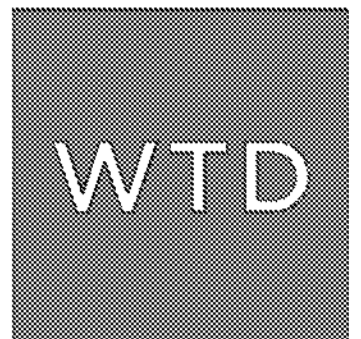
Professional Seal
Scale: 3/32" = 1'-0"
Sht Description:
Second Floor HVAC Power Plan
Sheet 1 of 2

North
E1.23

GENERAL NOTES:
1. ALL RTU HVAC UNITS ARE ON THE ROOF. PROVIDE A UNIT-STRUT RACK FOR MOUNTING OF SAFETY SWITCH AT EACH RTU UNIT. FASTEN TO ROOF DECK, COORDINATE WITH ROOFING CONTRACTOR. PROVIDE A WEATHERPROOF RECEPTACLE AT EACH ROOF TOP RTU UNIT AND HOMERUN TO CIRCUIT AS INDICATED.
2. SEE LIGHTING PLAN FOR CONNECTION TO RESTROOM EXHAUST FANS.



1 **Second Floor HVAC Power Plan - A**
Scale: 3/32" = 1'-0"



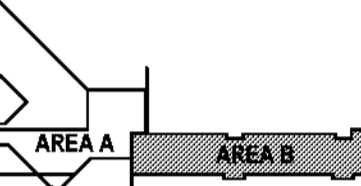
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Key Plan:



Consultants:



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Gulfport Mobile Nashville
1815 Pass Rd. Chiffort, MS 39551
IT:228-664-1050 OF:228-664-7744

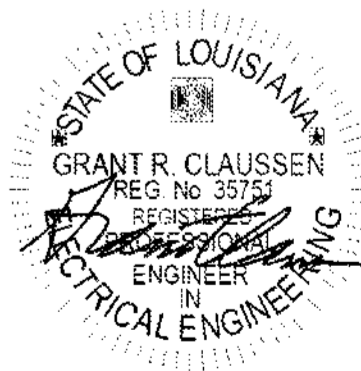
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Phase: Bid Documents

Date: 10-26-23

Revisions:

NO.	DESCRIPTION



10/20/2023

Professional Seal

Scale: 3/32" = 1'-0"

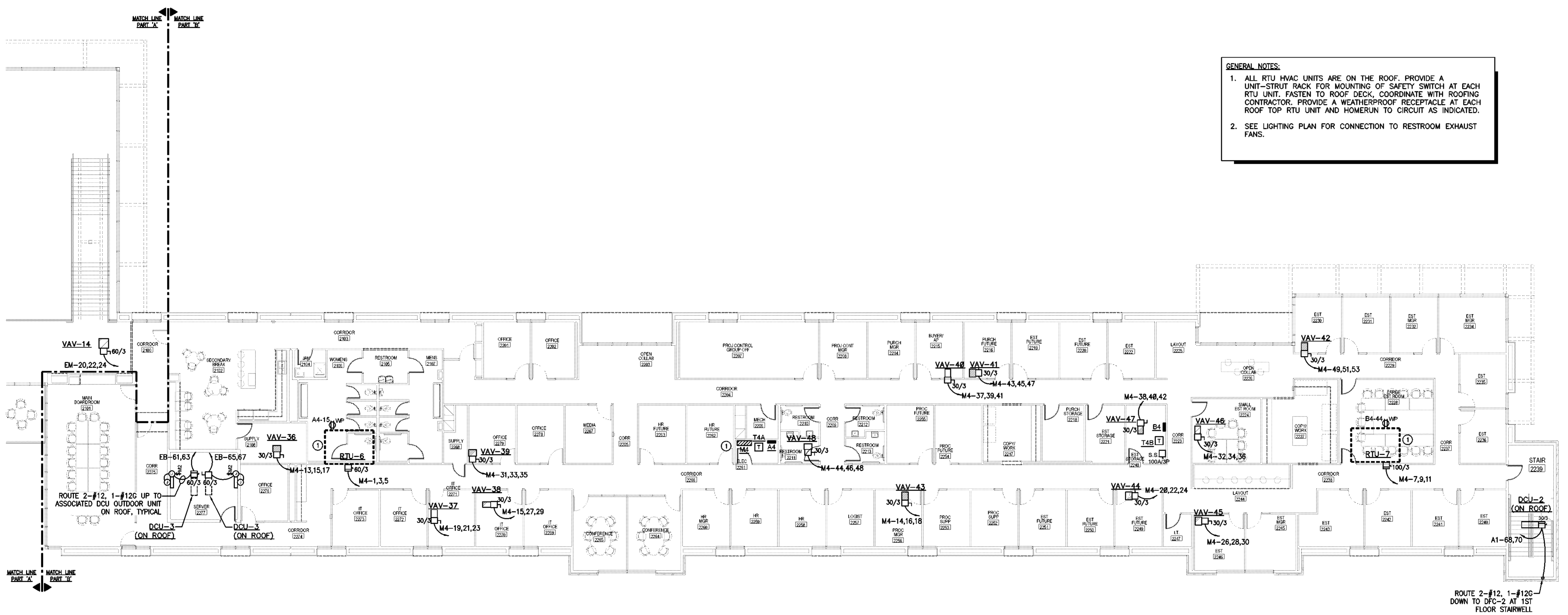
SM Description:

Second Floor HVAC Power Plan
Sheet 2 of 2

E1.24

North

GENERAL NOTES:
1. ALL RTU HVAC UNITS ARE ON THE ROOF. PROVIDE A UNIT-STRUT RACK FOR MOUNTING OF SAFETY SWITCH AT EACH RTU UNIT. FASTEN TO ROOF DECK, COORDINATE WITH ROOFING CONTRACTOR. PROVIDE A WEATHERPROOF RECEPTACLE AT EACH ROOF TOP RTU UNIT AND HOMERUN TO CIRCUIT AS INDICATED.
2. SEE LIGHTING PLAN FOR CONNECTION TO RESTROOM EXHAUST FANS.



1 Second Floor HVAC Power Plan - B
Scale: 3/32" = 1'-0"



LIGHTING CONTROL RELAY PANEL LCP2

RELAY #	AREA CONTROLLED	REMARKS
1	LIGHTING: STAIRWELL #1310	TIMECLOCK OVERRIDE. CONTAINS EGRESS LEG
2	LIGHTING: LUMINAIRES 'C2' AT WEST SOFFIT	PHOTOCELL & TIMECLOCK OVERRIDE. CONTAINS EGRESS LEG
3	BUILDING PRE-LIT SIGNAGE	PHOTOCELL & TIMECLOCK OVERRIDE.
4	SPARE RELAY	-
5	SPARE RELAY	-
6	SPACE	-
7	SPACE	-
8	SPACE	-

RELAY CABINET NOTES:
 1) PROVIDE A 120V CIRCUIT TO CABINET LCP2. PROVIDE A 20A/1P BREAKER AND FEED WITH 2-#12, 1-#12G. ROUTE 2-CAT 5E CABLES FROM CABINET AND CONNECT TO NEAREST NBRGB BRIDGE.

ADDITIONAL LUMINAIRE DESIGNATION TAGS REVISED IN THE FOLLOWING ROOMS. NOT CLOUDED ON PLANS FOR CLARITY:

CORRIDORS: 1025, 1026, 1100, 1110, 1131, 1017, 1016, 1009, 1006
 AUTOMATION OPEN OFFICE #1115
 OPEN COLLAB #1105
 DESIGN OPEN OFFICE #1119
 LOBBY #1001

LIGHTING CONTROL RELAY PANEL LCP1

RELAY #	AREA CONTROLLED	REMARKS
1	LIGHTING: STAIRWELL #1028	TIMECLOCK OVERRIDE. CONTAINS EGRESS LEG
2	LIGHTING: PORCH #1029	PHOTOCELL & TIMECLOCK OVERRIDE. CONTAINS EGRESS LEG
3	LIGHTING: PORCH #1003	PHOTOCELL & TIMECLOCK OVERRIDE. CONTAINS EGRESS LEG
4	LIGHTING: LUMINAIRES 'C2' AT WEST SOFFIT	PHOTOCELL & TIMECLOCK OVERRIDE. CONTAINS EGRESS LEG
5	LIGHTING: COVERED BALCONY #2002	PHOTOCELL & TIMECLOCK OVERRIDE. CONTAINS EGRESS LEG
6	SITE LIGHTING: BOLLARDS	PHOTOCELL & TIMECLOCK OVERRIDE.
7	SITE LIGHTING: BOLLARDS	PHOTOCELL & TIMECLOCK OVERRIDE.
8	FLOODLIGHTS AT SIGNAGE	PHOTOCELL & TIMECLOCK OVERRIDE.
9	BUILDING PRE-LIT SIGNAGE	PHOTOCELL & TIMECLOCK OVERRIDE.
10	SPARE RELAY	-
11	SPARE RELAY	-
12	PARKING LOT LIGHTING, 480V	RELAY WITH DIMMING FUNCTION. PHOTOCELL & TIMECLOCK OVERRIDE. PROVIDE VOLTAGE BARRIER
13	PARKING LOT LIGHTING, 480V	RELAY WITH DIMMING FUNCTION. PHOTOCELL & TIMECLOCK OVERRIDE. PROVIDE VOLTAGE BARRIER
14	PARKING LOT LIGHTING, 480V	RELAY WITH DIMMING FUNCTION. PHOTOCELL & TIMECLOCK OVERRIDE. PROVIDE VOLTAGE BARRIER
15	PARKING LOT LIGHTING, 480V	RELAY WITH DIMMING FUNCTION. PHOTOCELL & TIMECLOCK OVERRIDE. PROVIDE VOLTAGE BARRIER
16	PARKING LOT LIGHTING, 480V	RELAY WITH DIMMING FUNCTION. PHOTOCELL & TIMECLOCK OVERRIDE. PROVIDE VOLTAGE BARRIER
17	PARKING LOT LIGHTING, 480V	RELAY WITH DIMMING FUNCTION. PHOTOCELL & TIMECLOCK OVERRIDE. PROVIDE VOLTAGE BARRIER
18	SPARE RELAY	-
19	SPARE RELAY	-
20	SPACE	-
21-24	SPACE	-

RELAY CABINET NOTES:
 1) PROVIDE A 120V CIRCUIT TO CABINET LCP1. PROVIDE A 20A/1P BREAKER AND FEED WITH 2-#12, 1-#12G. ROUTE 2-CAT 5E CABLES FROM CABINET AND CONNECT TO NEAREST NBRGB BRIDGE.

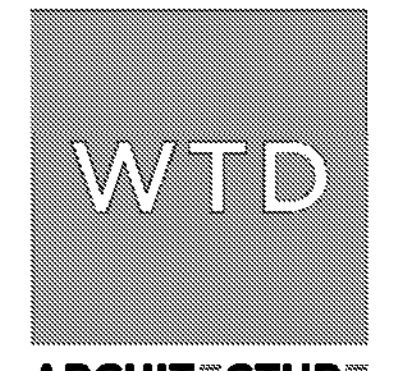
SPECIFIC NOTES:

- LIGHTING CONTROL PANEL LCP1, EQUAL TO ACUTY N-LIGHT RELAY PANEL #ARP-INTENC48-NLT-MVOLT-SM. SEE LIGHTING CONTROL PANEL SCHEDULE. PROVIDE 120V DEDICATED CIRCUIT AT LIGHTING CONTROL PANEL AND PROVIDE A COMMUNICATIONS NETWORK CONNECTION AND INTERLOCK CONTROL PANEL INTO THE N-LIGHT CONTROL NETWORK.
- ROUTE CIRCUIT UP TO 2ND FLOOR STAIRWELL LUMINAIRES.

GENERAL NOTES:

- CONTRACTOR SHALL CONTACT DIGITAL LIGHTING NETWORK SUPPLIER/MANUFACTURER (ACUTY N-LIGHT) AND INCLUDE IN THEIR BID PRICE, ANY ADDITIONAL CABLE, ACCESSORIES, AND/OR 120V CONDUCTORS (FOR SYSTEM CONTROLLER GATEWAY, BRIDGE, ETC) THAT WILL BE NECESSARY FOR COMPLETE SYSTEM OPERATION.
- OCCUPANCY SENSOR LAYOUT IS SHOWN DIAGRAMATIC. THE CONTRACTOR SHALL PROVIDE QUANTITY OF SENSORS AND POWER PACKS REQUIRED TO MEET THE REQUIREMENTS OF 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND FOR A FULL FUNCTIONING SYSTEM. SEE AREA LIGHTING CONTROL SUMMARY SCHEDULE FOR LIGHTING CONTROL DETAILS FOR EACH ROOM.
- LOW VOLTAGE CONTROL CABLING (0-10V, CAT5e, ETC) NOT SHOWN ON DRAWINGS BETWEEN POWER PACKS, OCCUPANCY SENSORS, AND OTHER LIGHTING CONTROL DEVICES FOR CLARITY. THE ELECTRICAL CONTRACTOR SHALL CONNECT AND PROGRAM SYSTEM BASED ON EXACT LIGHTING CONTROL SYSTEM/MANUFACTURER PROVIDED, FOR A FULLY COMPLETE AND FUNCTIONAL SYSTEM.
- IN AREAS/ROOMS WHERE LUMINAIRES ARE BEING DIMMED VIA THE COMPATIBLE DIMMING OCCUPANCY SENSORS/DIMMING POWER PACKS AND/OR WALL POD STATIONS, THE ELECTRICAL CONTRACTOR SHALL ROUTE 0-10V DIMMING CONTROL CABLE BETWEEN EACH LUMINAIRE FOR EACH ZONE AND ROUTE TO ASSOCIATED POWER PACK AND/OR WALL POD SWITCH CONTROLLING THAT ZONE AS RECOMMENDED BY MANUFACTURER.
- CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS/EMERGENCY BATTERY PACKS TO UNSWITCHED LIGHTING CIRCUIT. SAME LIGHTING CIRCUIT AS THOSE LIGHTING FIXTURES IN THE SAME ROOM. CONTRACTOR RESPONSIBLE FOR PROVIDING ADDITIONAL UN-SWITCHED HOT CONDUCTOR FOR PROPER EMERGENCY OPERATION. DO NOT SWITCH EGRESS LEG OF LIGHTING AT LIGHTING CONTROL PANEL OR SENSORS. CONNECT AHEAD OF THE LOCAL LIGHTING CONTROLS.
- LIGHT FIXTURE DENOTED WITH A LOWERCASE "s" IS TO HAVE AN INTEGRAL EMERGENCY BATTERY PACK INSTALLED BY MANUFACTURER.
- "NL" DENOTES NIGHT LIGHT, DO NOT SWITCH.
- INSTALL POWER PACKS ABOVE FINISHED CEILINGS. POWER PACKS ARE CONTROLLED BY LOW VOLTAGE WALL SWITCHES, SEE DRAWING NOTES FOR ADDITIONAL INFORMATION.
- LUMINAIRES MOUNTED IN EXPOSED CEILING AREAS TO HAVE STEM/ADJUSTABLE AIRCRAFT CABLE CANOPIES MOUNTED TO THE CEILING DECKING, DO NOT SPAN BAR JOISTS WITH UNITSTRUT FOR MOUNTING OF FIXTURE CANOPIES.

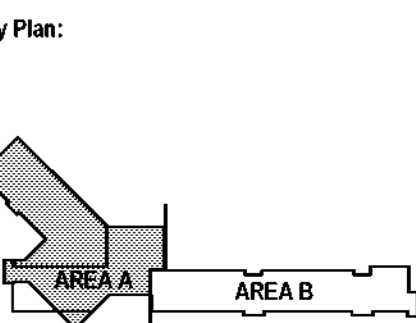
1 First Floor Lighting Plan - A
 Scale: 3/32" = 1'-0"



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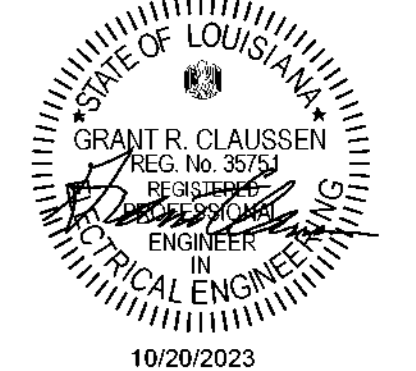
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Professional Seal
 Scale: 3/32" = 1'-0"
 SH Description:
First Floor Lighting Plan Part - 'A'

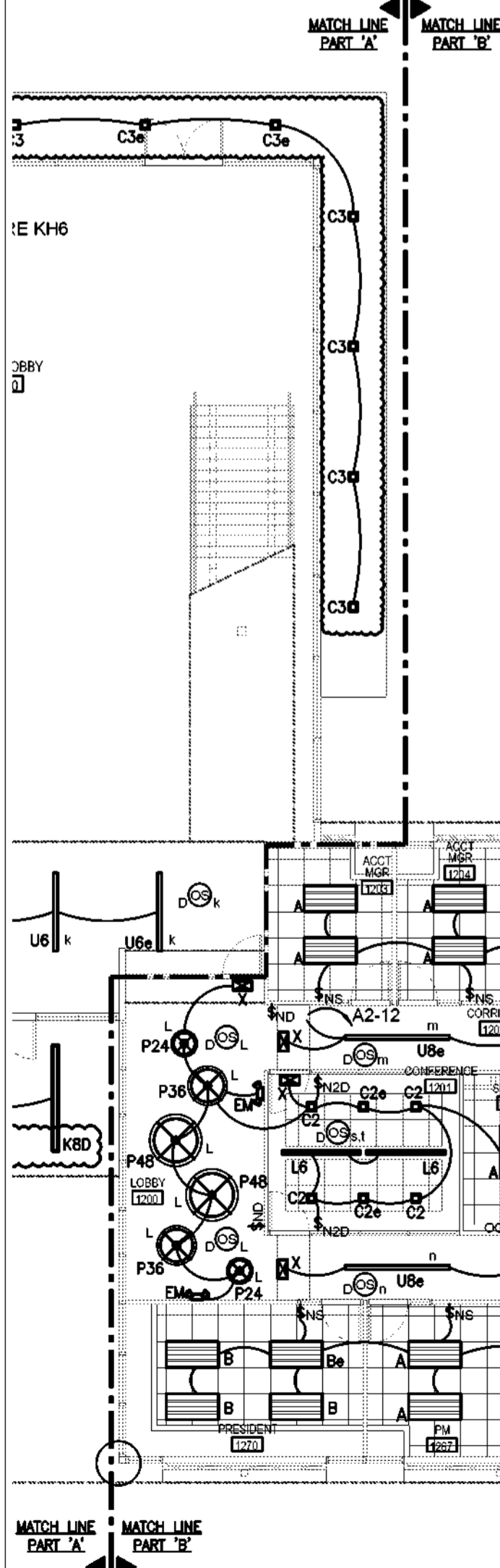
LIGHTING FIXTURE SCHEDULE						
SYMBOL	BRAND & CATALOG NO.	DESCRIPTION	VOLT	WATTS	LAMP	NOTES
A	COLUMBIA LIGHTING CBT24-A-LSCS-EDD	2X4 RECESSED LED PANEL	120VOLT	39.3W	4800 LUMENS, 4000K LED	-
Ae	COLUMBIA LIGHTING CBT24-A-LSCS-EDD-ELL14	2X4 RECESSED LED PANEL WITH INTEGRAL EMERGENCY BATTERY PACK	120VOLT	39.3W	4800 LUMENS, 4000K LED	-
B	COLUMBIA LIGHTING CBT24-A-LSCS-EDD	2X4 RECESSED LED PANEL	120VOLT	31W	4000 LUMENS, 4000K LED	-
Be	COLUMBIA LIGHTING CBT24-A-LSCS-EDD-ELL14	2X4 RECESSED LED PANEL WITH INTEGRAL EMERGENCY BATTERY PACK	120VOLT	31W	4000 LUMENS, 4000K LED	-
C1	LSI LIGHTING ADL-F51-UNV-6S-WHT	6" SQUARE OPEN LED DOWNLIGHT, TRIM COLOR AND FIXTURE FINISH BY OWNER/ARCHITECT	120VOLT	10.4W	1000LM LED	-
C1e	LSI LIGHTING ADL-F51-UNV-6S-WHT-EMBRB	6" SQUARE OPEN LED DOWNLIGHT WITH EMERGENCY BATTERY PACK, TRIM COLOR AND FIXTURE FINISH BY OWNER/ARCHITECT	120VOLT	10.4W	1000LM LED	-
C2	LSI LIGHTING ADL-F52-UNV-6S-WHT	6" SQUARE OPEN LED DOWNLIGHT, TRIM COLOR AND FIXTURE FINISH BY OWNER/ARCHITECT	120VOLT	28.3W	2500LM LED	-
C2e	LSI LIGHTING ADL-F52-UNV-6S-WHT-EMBRB	6" SQUARE OPEN LED DOWNLIGHT WITH EMERGENCY BATTERY PACK, TRIM COLOR AND FIXTURE FINISH BY OWNER/ARCHITECT	120VOLT	28.3W	2500LM LED	-
C3	GOHAM LIGHTING EVO6SQ-40K-2500L-FL(FLANGLESS)- LSS-INVOLT-GZ1	6" SQUARE OPEN LED DOWNLIGHT TRIMLESS/FLANGELESS	120VOLT	24.7W	2500LM, 4000K LED	-
C3e	GOHAM LIGHTING EVO6SQ-40K-2500L-FL(FLANGLESS)- LSS-INVOLT-GZ1-EL	6" SQUARE OPEN LED DOWNLIGHT FLANGELESS WITH EMERGENCY BATTERY PACK	120VOLT	24.7W	2500LM, 4000K LED	-
KX	FORUM FORECAST Z SERIES, RECESSED, TRIMLESS- SR2-46REC-TRIMLESS-280LM/FT-4000K-SAT-LENGTH PER DRAWINGS 'X'-UNV-CC-D10V	LED RECESSED LINEAR TRIMLESS FIXTURE, 6" WIDE AND VARYING LENGTH AS SHOWN ON PLAN. STANDARD BRIGHTNESS, 0-10V DIMMING, TRIMLESS MOUNTING SYSTEM. 'X' INDICATES TOTAL LENGTH OF CONTINUOUS SECTION.	UNV	4.5W/FT	280LM/FT LED	-
KXD	FORUM FORECAST Z SERIES, RECESSED, TRIMLESS- SR2-46REC-TRIMLESS-280LM/FT-4000K-SAT-LENGTH PER DRAWINGS 'X'-UNV-CC-DL-D10V	LED RECESSED LINEAR TRIMLESS FIXTURE, 6" WIDE AND VARYING LENGTH AS SHOWN ON PLAN. STANDARD BRIGHTNESS, 0-10V DIMMING, TRIMLESS MOUNTING SYSTEM. 'X' INDICATES TOTAL LENGTH OF CONTINUOUS SECTION. DAMP LISTED.	UNV	4.5W/FT	280LM/FT LED	-
KRX	FORUM FORECAST Z SERIES, RECESSED, TRIMLESS- SR2-46REC-TRIMLESS-TECHZONE STANDARD BRIGHTNESS, 0-10V DIMMING, TRIMLESS MOUNTING SYSTEM. 'X' INDICATES TOTAL LENGTH OF CONTINUOUS SECTION.	LED RECESSED LINEAR TRIMLESS TECHZONE FIXTURE, 6" WIDE AND VARYING LENGTH AS SHOWN ON PLAN. STANDARD BRIGHTNESS, 0-10V DIMMING, TRIMLESS MOUNTING SYSTEM. 'X' INDICATES TOTAL LENGTH OF CONTINUOUS SECTION.	UNV	9W/FT	570LM/FT LED	-
L6	FOCAL POINT LIGHTING - NERA FNRS-FL40-625LF-40K-1C-UNV-L11-OC-6-C6	6" LED AESTHETIC VOID DESIGN LINEAR, 40 UP 60 DOWN SUSPENDED FIXTURE.	UNV	34W	3750LM LED	-
L6e	FOCAL POINT LIGHTING - NERA FNRS-FL40-625LF-40K-1C-UNV-L11-OC-6-C6-EM	6" LED AESTHETIC VOID DESIGN LINEAR, 40 UP 60 DOWN SUSPENDED FIXTURE, WITH EMERGENCY BATTERY PACK	UNV	34W	3750LM LED	-
L8	FOCAL POINT LIGHTING - NERA FNRS-FL40-625LF-40K-1C-UNV-L11-OC-8-C8	8" LED AESTHETIC VOID DESIGN LINEAR, 40 UP 60 DOWN SUSPENDED FIXTURE.	UNV	45.5W	5000LM LED	-
LZ4	COLUMBIA LIGHTING MPS4-40W-CW-EDU-CSHC	4" LED COMPACT, LOW-PROFILE Z STRIP LIGHT WITH CHAIN HANGER ACCESSORY	UNV	30W	3000LM LED	-
LZ4e	COLUMBIA LIGHTING MPS4-40W-CW-EDU-CSHC-ELL14	4" LED COMPACT, LOW-PROFILE Z STRIP LIGHT WITH CHAIN HANGER ACCESSORY, WITH EMERGENCY BATTERY PACK OPTION	UNV	30W	3000LM LED	-
M2	OOL ARCHITECTURAL LIGHTING - ILLUSION IL1-SISA-24-CW-SMP-LED1-40K-UNV-DM1-ULD	2" AESTHETIC LED LINEAR SURFACE WALL FIXTURE, HORIZONTALLY MOUNTED	UNV	30W/2FT	1800LM/2FT LED	-
M4	OOL ARCHITECTURAL LIGHTING - ILLUSION IL1-SISA-48-CW-SMP-LED1-40K-UNV-DM1-ULD	4" AESTHETIC LED LINEAR SURFACE WALL FIXTURE, HORIZONTALLY MOUNTED	UNV	65W/4FT	3750LM/4FT LED	-
M5	OOL ARCHITECTURAL LIGHTING - ILLUSION IL1-SISA-60-CW-SMP-LED1-40K-UNV-DM1-ULD	5" AESTHETIC LED LINEAR SURFACE WALL FIXTURE, HORIZONTALLY MOUNTED	UNV	85W/5FT	4750LM/5FT LED	-
M5	OOL ARCHITECTURAL LIGHTING - ILLUSION IL1-SISA-60-CW-SMP-LED1-40K-UNV-DM1	5" AESTHETIC LED LINEAR SURFACE WALL FIXTURE, VERTICALLY MOUNTED IN STAIRWAYS.	UNV	85W/5FT	4750LM/5FT LED	-
P24/36/48	LUXLOGIC LIGHTING DR-RIN-24/36/48-SP-40K-90-UNV-D-SL (SILVER)	LED ARCHITECTURAL PENDANT FIXTURES, 24"/36"/48" DIAMETER, INNER RING SERIES FINISH AND MOUNTING HEIGHT: BY OWNER/ARCHITECT	UNV	35/53/64	1960-3968LM LED	-
SH	GOHAM LIGHTING EVO6SOSH-40K-2000L-DFR-SOL-INVOLT	6" SQUARE RECESSED SHOWER DOWNLIGHT, IP66 RATED WET LOCATION.	120VOLT	19.7W	2000LM, 4000K LED	-
U4	LITECONTROL 6L-P-D-4'-4'-SOF-C3-40K9-560 LUMENS PER FT.-D01-1C-UNV-FA1	4" LINEAR DIRECT LED LUMINAIRE, ADJUSTABLE CABLE MOUNTED	UNV	28W/4FT	2240LM/4FT LED	-
U4e	LITECONTROL 6L-P-D-4'-4'-SOF-C3-40K9-560 LUMENS PER FT.-D01-1C-UNV-FA1-EF	4" LINEAR DIRECT LED LUMINAIRE, ADJUSTABLE CABLE MOUNTED, WITH INTEGRAL EMERGENCY BATTERY PACK	UNV	28W/4FT	2240LM/4FT LED	-
U6	LITECONTROL 6L-P-D-6'-6'-SOF-C3-40K9-560 LUMENS PER FT.-D01-1C-UNV-FA1	6" LINEAR DIRECT LED LUMINAIRE, ADJUSTABLE CABLE MOUNTED	UNV	42W/6FT	3360LM/6FT LED	-
U6e	LITECONTROL 6L-P-D-6'-6'-SOF-C3-40K9-560 LUMENS PER FT.-D01-1C-UNV-FA1-EF	6" LINEAR DIRECT LED LUMINAIRE, ADJUSTABLE CABLE MOUNTED, WITH INTEGRAL EMERGENCY BATTERY PACK	UNV	42W/6FT	3360LM/6FT LED	-
U8	LITECONTROL 6L-P-D-8'-8'-SOF-C3-40K9-560 LUMENS PER FT.-D01-1C-UNV-FA1	8" LINEAR DIRECT LED LUMINAIRE, ADJUSTABLE CABLE MOUNTED	UNV	56W/8FT	4480LM/8FT LED	-
U8e	LITECONTROL 6L-P-D-8'-8'-SOF-C3-40K9-560 LUMENS PER FT.-D01-1C-UNV-FA1-EF	8" LINEAR DIRECT LED LUMINAIRE, ADJUSTABLE CABLE MOUNTED, WITH INTEGRAL EMERGENCY BATTERY PACK	UNV	56W/8FT	4480LM/8FT LED	-
U8eM	LITECONTROL 6L-P-D-8'-8'-SOF-C3-40K9-560 LUMENS PER FT.-D01-1C-UNV-FA1-EF COMPASS LIGHTING C02	8" LINEAR DIRECT LED LUMINAIRE, ADJUSTABLE CABLE MOUNTED, WITH INTEGRAL EMERGENCY BATTERY PACK EMERGENCY LIGHTING UNIT	120VOLT	2.4W	LED	-
EW	LITHONIA AFFINITY AFF-PEL-DNAXD-UVOLT- LTP-FCT-CW (NORMALLY-ON WITH PHOTOCELL)	EXTERIOR EMERGENCY LIGHTING UNIT WITH NORMALLY ON AND EMERGENCY MODE FUNCTION	120VOLT	21W	635LM LED	-
X	LITHONIA LRP-1-GMR-120/277-ELN	EXIT SIGN WITH BATTERY PACK	120VOLT	1W	GREEN LED	-
X2	LITHONIA LRP-2-GMR-120/277-ELN	DOUBLE FACE EXIT SIGN WITH BATTERY PACK	120VOLT	1W	GREEN LED	-

NOTE: TYPES 'L4, L4e, & L8e' DELETED,
NO LONGER ON LIGHTING PLANS.

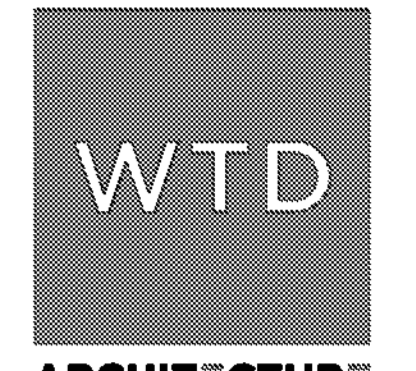
- GENERAL NOTES:**
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 - OCCUPANCY SENSOR LAYOUT IS SHOWN DIAGRAMATIC. THE CONTRACTOR SHALL PROVIDE QUANTITY OF SENSORS AND POWER PACKS REQUIRED TO MEET THE REQUIREMENTS OF 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND FOR A FULL FUNCTIONING SYSTEM. SEE AREA LIGHTING CONTROL SUMMARY SCHEDULE FOR LIGHTING CONTROL DETAILS FOR EACH ROOM.
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 - IN AREAS/ROOMS WHERE LUMINAIRES ARE BEING DIMMED VIA THE COMPATIBLE DIMMING OCCUPANCY SENSORS/DIMMING POWER PACKS AND/OR WALL POD STATIONS, THE ELECTRICAL CONTRACTOR SHALL ROUTE 0-10V DIMMING CONTROL CABLE BETWEEN EACH LUMINAIRE FOR EACH ZONE AND ROUTE TO ASSOCIATED POWER PACK AND/OR WALL POD SWITCH CONTROLLING THAT ZONE AS RECOMMENDED BY MANUFACTURER.
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 - LUMINAIRES MOUNTED IN EXPOSED CEILING AREAS TO HAVE STEM/ADJUSTABLE AIRCRAFT CABLE CANOPIES MOUNTED TO THE CEILING DECKING, DO NOT SPAN BAR JOISTS WITH UNITSTRUT FOR MOUNTING OF FIXTURE CANOPIES.

- SPECIFIC NOTES:**
- ROUTE CIRCUIT UP TO 2ND FLOOR STAIRWELL LUMINAIRES.

ADDITIONAL LUMINAIRE DESIGNATION TAGS REVISED IN THE FOLLOWING ROOMS, NOT CLOUDED ON PLANS FOR CLARITY:
CORRIDORS: 1202, 1213, 1269, 1215, 1243, 1244, 1245, 1305, 1306, 1308, 1318
OPEN COLLAB #1258



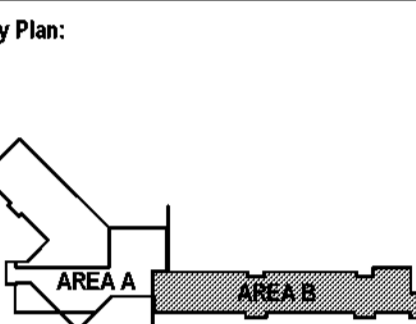
1 First Floor Lighting Plan - B
Scale: 3/32" = 1'-0"



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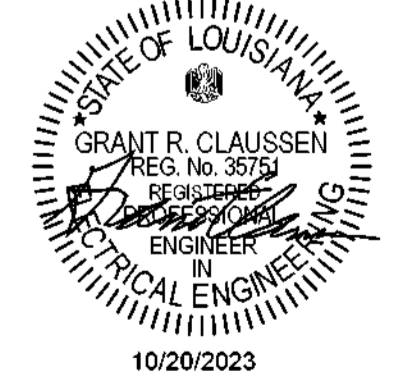
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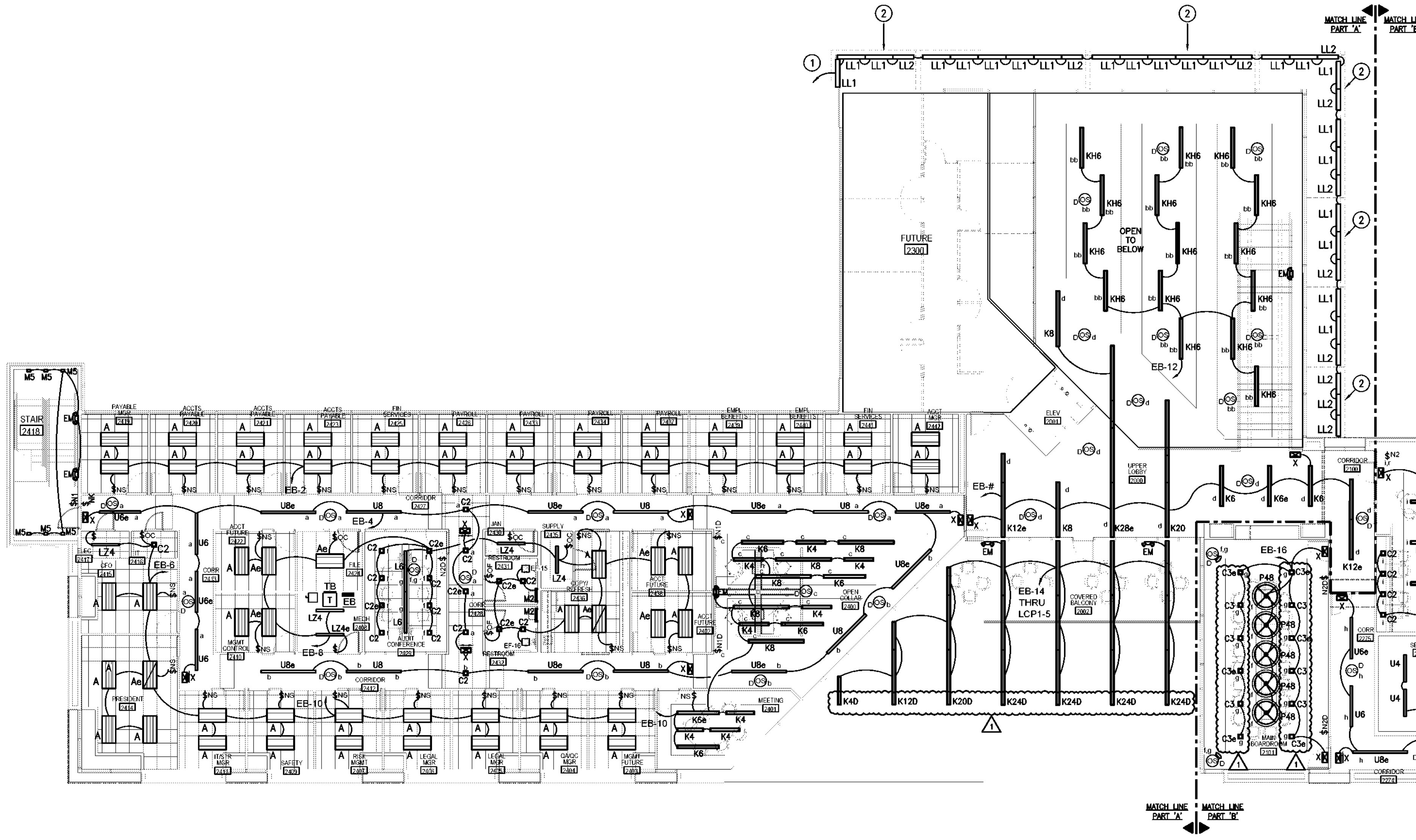
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Sht Description:
First Floor Lighting Plan
Sheet 2 of 2

E2.12
North

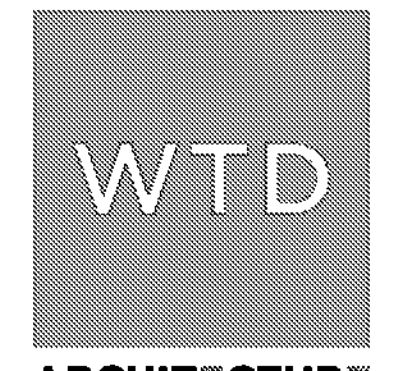


1 Second Floor Lighting Plan - A
Scale: 3/32" = 1'-0"

- GENERAL NOTES:**
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 - CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS/EMERGENCY BATTERY PACKS TO UNSWITCHED LIGHTING CIRCUIT. SAME LIGHTING CIRCUIT AS THOSE LIGHTING FIXTURES IN THE SAME ROOM. CONTRACTOR RESPONSIBLE FOR PROVIDING ADDITIONAL UN-SWITCHED HOT CONDUCTOR FOR PROPER EMERGENCY OPERATION. DO NOT SWITCH EGRESS LEG OF LIGHTING AT LIGHTING CONTROL PANEL OR SENSORS. CONNECT AHEAD OF THE LOCAL LIGHTING CONTROLS.
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- SPECIFIC NOTES:**
- HOMERUN TO POWER SUPPLY UNIT IN ROOM 1023, EACH ROW TO BE HOMERUN TO INDIVIDUAL POWER SUPPLY. SEE SPECIFIC NOTE #1 ON SITE ELECTRICAL PLAN SHEET E0.02.
 - LUMINAIRES FOR ILLUMINATION OF SCREEN WALL ELEMENT #1. THERE WILL BE (4) ROWS OF LUMINAIRES MOUNTED ON THE SCREEN WALL AT THE FOLLOWING ELEVATIONS:
 ROW 1 (TOP): 634"
 ROW 2: 514"
 ROW 3: 394"
 ROW 4: 156"
 EACH ROW #1, #2, & #3 WILL HAVE THE SAME AMOUNT OF LUMINAIRES AS SHOWN. ROW #4 WILL HAVE (17) TYPE LL1 LUMINAIRES AS THE SCREEN WALL LENGTH AT ROW #4 ISN'T AS WIDE. SEE TYPICAL SCHEMATIC WIRING DETAIL 3/E0.02 FOR ADDITIONAL REQUIREMENTS.

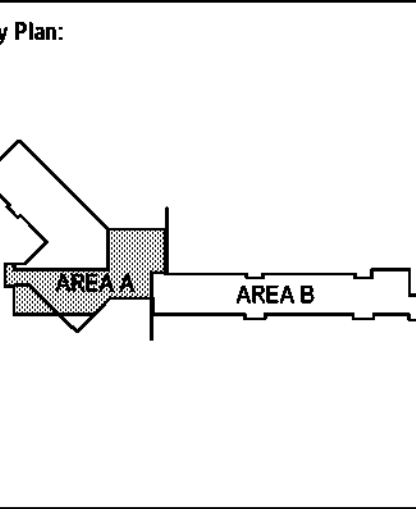
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 CORRIDORS: 2412, 2413, 2427



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Consultants:

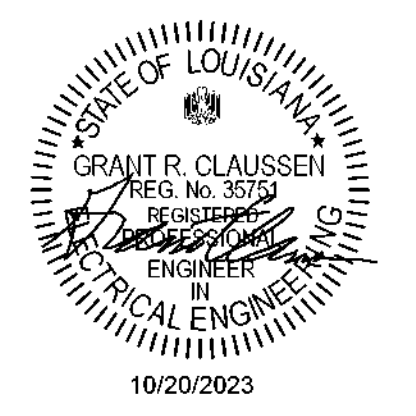
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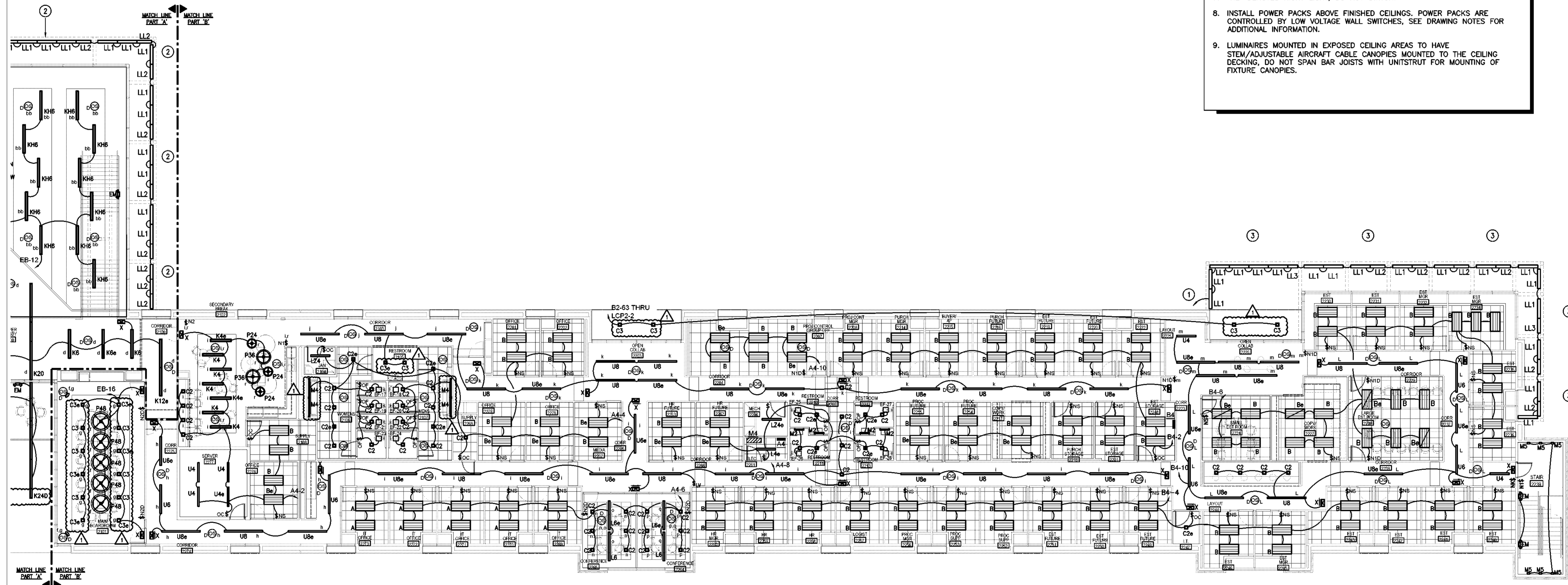
Professional Seal
 Scale: 3/32" = 1'-0"
 Sht Description:
 Second Floor Lighting Plan
 Sheet 1 of 2

SPECIFIC NOTES:

- ① HOMERUN TO POWER SUPPLY UNIT IN ROOM 1023, EACH ROW TO BE HOMERUN TO INDIVIDUAL POWER SUPPLY. SEE SPECIFIC NOTE #1 ON SITE ELECTRICAL PLAN SHEET E0.02.
- ② LUMINAIRES FOR ILLUMINATION OF SCREEN WALL ELEMENT #1. THERE WILL BE (4) ROWS OF LUMINAIRES MOUNTED ON THE SCREEN WALL AT THE FOLLOWING ELEVATIONS:
ROW 1 (TOP): 634"
ROW 2: 514"
ROW 3: 394"
ROW 4: 156"
EACH ROW #1, #2, & #3 WILL HAVE THE SAME AMOUNT OF LUMINAIRES AS SHOWN. ROW #4 WILL HAVE (17) TYPE LL1 LUMINAIRES AS THE SCREEN WALL LENGTH AT ROW #4 ISN'T AS WIDE. SEE TYPICAL SCHEMATIC WIRING DETAIL 3/E0.02 FOR ADDITIONAL REQUIREMENTS.
- ③ LUMINAIRES FOR ILLUMINATION OF SCREEN WALL ELEMENT #2. THERE WILL BE (2) ROWS OF LUMINAIRES MOUNTED ON THE SCREEN WALL AT THE FOLLOWING ELEVATIONS:
ROW 1 (TOP): 351"
ROW 2: 211"
EACH ROW #1 & #2 WILL HAVE THE SAME AMOUNT OF LUMINAIRES AS SHOWN. SEE TYPICAL SCHEMATIC WIRING DETAIL 3/E0.02 FOR ADDITIONAL REQUIREMENTS.
- ④ LIGHTING CONTROL PANEL LCP2. EQUAL TO ACUITY N-LIGHT RELAY PANEL #ARP-INTENCB-NLT-MVOLT-SM. SEE LIGHTING CONTROL PANEL SCHEDULE. PROVIDE 120V DEDICATED CIRCUIT AT LIGHTING CONTROL PANEL AND PROVIDE A COMMUNICATIONS NETWORK CONNECTION AND INTERLOCK CONTROL PANEL INTO THE N-LIGHT CONTROL NETWORK.

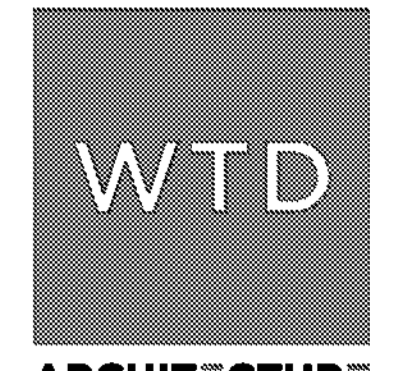
GENERAL NOTES:

1. CONTRACTOR SHALL CONTACT DIGITAL LIGHTING NETWORK SUPPLIER/MANUFACTURER (ACUITY N-LIGHT) AND INCLUDE IN THEIR BID PRICE. ANY ADDITIONAL CABLE, ACCESSORIES, AND/OR 120V CONDUCTORS (FOR SYSTEM CONTROLLER GATEWAY, BRIDGE, ETC) THAT WILL BE NECESSARY FOR COMPLETE SYSTEM OPERATION.
2. OCCUPANCY SENSOR LAYOUT IS SHOWN DIAGRAMATIC. THE CONTRACTOR SHALL PROVIDE QUANTITY OF SENSORS AND POWER PACKS REQUIRED TO MEET THE REQUIREMENTS OF 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND FOR A FULL FUNCTIONING SYSTEM. SEE AREA LIGHTING CONTROL SUMMARY SCHEDULE FOR LIGHTING CONTROL DETAILS FOR EACH ROOM.
3. LOW VOLTAGE CONTROL CABLING (0-10V, CAT5e, ETC) NOT SHOWN ON DRAWINGS BETWEEN POWER PACKS, OCCUPANCY SENSORS, AND OTHER LIGHTING CONTROL DEVICES FOR CLARITY. THE ELECTRICAL CONTRACTOR SHALL CONNECT AND PROGRAM SYSTEM BASED ON EXACT LIGHTING CONTROL SYSTEM/MANUFACTURER PROVIDED, FOR A FULLY COMPLETE AND FUNCTIONAL SYSTEM.
4. IN AREAS/ROOMS WHERE LUMINAIRES ARE BEING DIMMED VIA THE COMPATIBLE DIMMING OCCUPANCY SENSORS/DIMMING POWER PACKS AND/OR WALL POD STATIONS, THE ELECTRICAL CONTRACTOR SHALL ROUTE 0-10V DIMMING CONTROL CABLE BETWEEN EACH LUMINAIRE FOR EACH ZONE AND ROUTE TO ASSOCIATED POWER PACK AND/OR WALL POD SWITCH CONTROLLING THAT ZONE AS RECOMMENDED BY MANUFACTURER.
5. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS/EMERGENCY BATTERY PACKS TO UNSWITCHED LIGHTING CIRCUIT. SAME LIGHTING CIRCUIT AS THOSE LIGHTING FIXTURES IN THE SAME ROOM. CONTRACTOR RESPONSIBLE FOR PROVIDING ADDITIONAL UN-SWITCHED HOT CONDUCTOR FOR PROPER EMERGENCY OPERATION. DO NOT SWITCH EGRESS LEGS OF LIGHTING AT LIGHTING CONTROL PANEL OR SENSORS. CONNECT AHEAD OF THE LOCAL LIGHTING CONTROLS.
6. LIGHT FIXTURE DENOTED WITH A LOWERCASE "e" IS TO HAVE AN INTEGRAL EMERGENCY BATTERY PACK INSTALLED BY MANUFACTURER.
7. "NL" DENOTES NIGHT LIGHT, DO NOT SWITCH.
8. INSTALL POWER PACKS ABOVE FINISHED CEILINGS. POWER PACKS ARE CONTROLLED BY LOW VOLTAGE WALL SWITCHES. SEE DRAWING NOTES FOR ADDITIONAL INFORMATION.
9. LUMINAIRES MOUNTED IN EXPOSED CEILING AREAS TO HAVE STEM/ADJUSTABLE AIRCRAFT CABLE CANOPIES MOUNTED TO THE CEILING DECKING. DO NOT SPAN BAR JOISTS WITH UNITSTRUT FOR MOUNTING OF FIXTURE CANOPIES.



1 Second Floor Lighting Plan - B
Scale: 3/32" = 1'-0"

▲ ADDITIONAL LUMINAIRE DESIGNATION TAGS REVISED IN THE FOLLOWING ROOMS. NOT CLOUDED ON PLANS FOR CLARITY:
CORRIDORS: 2274, 2275, 2266, 2205, 2237, 2238, 2103, 2204, 2229
SERVER ROOM #2277
OPEN COLLAB #2203 & #2226
LAYOUT #2244

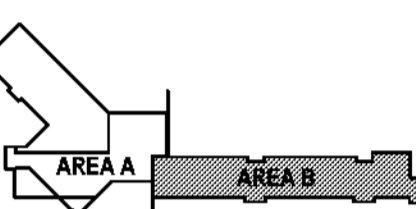


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Key Plan:

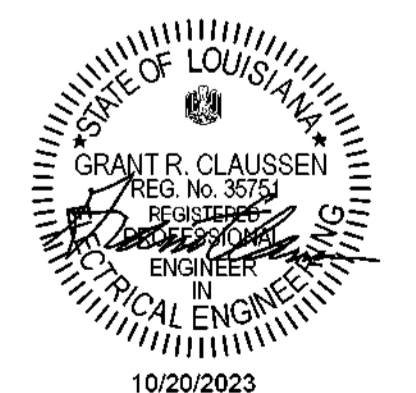


Consultants:



The Newtron Group
New Campus Corporate Headquarters
13820 Airline Highway
Baton Rouge, LA, 70817

Phase: Bid Documents
Date: 10-26-23
Revisions:
▲ REVISIONS 04.10.24



Professional Seal
Scale: 3/32" = 1'-0"
Sht Description:
Second Floor Lighting Plan
Sheet 2 of 2

AREA LIGHTING CONTROL SUMMARY SCHEDULE 1ST FLOOR - PART B

AREA CONTROLLED	LOCAL MANUAL CONTROL REQUIRED	MANUAL ON	FULL AUTO ON	PARTIAL AUTO ON (NOT MORE THAN 50% POWER)	AUTO OFF	PARTIAL AUTO OFF	DIMMING CONTROLS	MULTI-ZONE CONTROL SCHEME	DAYLIGHT HARVESTING	(LIGHT REDUCTION CONTROLS) DIMMING CONTROLS C405.2.3.1	(LIGHT REDUCTION CONTROLS) BI-LEVEL SWITCHING C405.2.3.1	SCHEDULED ON/OFF VIA P.E. OR TIME/CLOCK	NOTES:
LOBBY 1200			•										
CONFERENCE 1201	•	•			•			•	•				• NOTE #3
CORRIDOR 1202			•										• NOTE #3
ACCOUNT MANAGER 1203	•	•			•								
ACCOUNT MANAGER 1204	•	•			•								
COPY/WORKROOM 1205	•	•			•								
BD 1206	•	•			•								
BD 1207	•	•			•								
COMM FUTURE 1208	•	•			•								
BD SUPPLY 1209	•	•			•								
ELECTRICAL ROOM 1210	•	•			•								
COMMS TEAM ROOM 1211	•	•			•								
CORRIDOR 1212			•										• NOTE #3
- 1213 NO ROOM NAME													
RESTROOM 1214			•		•								
CORRIDOR 1215			•										• NOTE #3
RESTROOM 1216			•		•								
MECHANICAL ROOM 1217	•	•			•								
COMM MANAGER 1218	•	•			•								
COMM. CLERICAL 1219	•	•			•								
CONFERENCE 1220	•	•			•			•					
EMPLOYEE LOBBY 1221 & OPEN COLLAB 1228	•	•	•										• NOTE #3
CONFERENCE 1222	•	•			•			•					
COMM PM 1223	•	•			•								
COMM PM 1224	•	•			•								
COMM PM 1225	•	•			•								
COMM COORDINATOR 1226	•	•			•								
CORRIDOR 1227			•										• NOTE #3
RESTROOM 1228			•		•								
RESTROOM 1229			•		•								
RESTROOM 1230			•		•								
RESTROOM 1231			•		•								
STORAGE 1232	•	•			•								
SAFETY MANAGER 1233	•	•			•								
SAFETY FUTURE 1234	•	•			•								
REFRESHMENT 1235	•	•			•								
CM 1236	•	•			•								
CM FUTURE 1237	•	•			•								
FLEX FUTURE 1238	•	•			•								
COPY/WORK ROOM 1239	•	•			•								
PC 1240	•	•			•								
PC FUTURE 1241	•	•			•								
FLEX FUTURE 1242	•	•			•								
CORRIDORS 1243, 1244, 1245			•										• NOTE #3
BD STORAGE 1246	•	•			•								
BD 1247	•	•			•								
BD 1248	•	•			•								
PM FUTURE 1249	•	•			•								
PM FUTURE 1250	•	•			•								
FLEX FUTURE 1251	•	•			•								
JANITOR 1252	•	•			•								
PM 1253	•	•			•								
PM 1254	•	•			•								
PM 1255	•	•			•								
PM 1256	•	•			•								
GENERAL MANAGER 1257	•	•			•								
BOARD ROOM 1259	•	•			•			•					
GENERAL MANAGER 1260	•	•			•								
FIELD OP FUTURE 1261	•	•			•								
PM FUTURE 1262	•	•			•								
PM FUTURE 1263	•	•			•								
PM 1264	•	•			•								
PM 1265	•	•			•								
PM 1266	•	•			•								
PM 1267	•	•			•								
SUPPLY 1268	•	•			•								
CORRIDOR 1269			•										• NOTE #3
PRESIDENT 1270	•	•			•								

SCHEDULE FOOTNOTES:

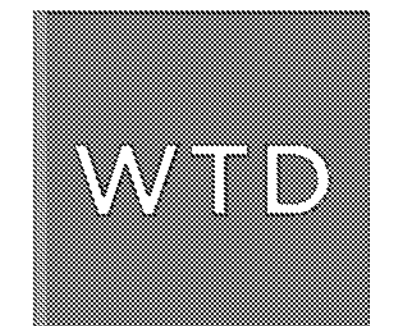
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- ALL FINAL PROGRAMMING TO BE PERFORMED AT COMMISSIONING OF SYSTEM WITH OWNER/ARCHITECTS INPUT. THE NETWORKED LIGHTING SYSTEM HAS THE ABILITY TO CONTROL LIGHTING IN ANY ROOM VIA LIGHTING CONTROL SOFTWARE OR AT GATEWAY IN ELECTRICAL ROOM. (COMMISSIONING OF SYSTEM SHALL MEET THE REQUIREMENTS OF THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C405.
- OCCUPANCY SENSOR CONTROLS IN CORRIDORS (AND OTHER AREAS LISTED IN ABOVE SCHEDULE) SHALL UNIFORMLY REDUCE LIGHTING POWER TO AN OCCUPIED SETPOINT NOT MORE THAN 50 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
- IN AREAS WITH MULTI-ZONE CONTROLS SCHEME, PROVIDE A POWER PACK FOR EACH ZONE AND A MULTI-BUTTON WALLPOD CONTROL SWITCH PROGRAMMED FOR EACH BUTTON TO CONTROL ASSOCIATED LIGHTING ZONE.
- DIMMING CAPABILITY IS TO BE PROVIDED FOR ALL POWER PACKS, WALLPOD CONTROL SWITCHES, AND OCCUPANCY/VACANCY SENSORS IN AREAS WITH DIMMING FUNCTION REQUIRED. IN AREAS WHERE DAYLIGHT HARVESTING IS REQUIRED, PROVIDE ALL COMPONENTS WITH DIMMING CAPABILITY TO AUTOMATICALLY DIM THE LIGHTING TO MEET THE REQUIREMENTS OF 2021 IECC ENERGY CODE.
- GENERAL LIGHTING IN EACH CONTROL ZONE SHALL REDUCE LIGHTING POWER TO AN UNOCCUPIED SETPOINT OF NOT MORE THAN 20 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE CONTROL ZONE.

AREA LIGHTING CONTROL SUMMARY SCHEDULE 1ST FLOOR - PART A

AREA CONTROLLED	LOCAL MANUAL CONTROL REQUIRED	MANUAL ON	FULL AUTO ON	PARTIAL AUTO ON (NOT MORE THAN 50% POWER)	AUTO OFF	PARTIAL AUTO OFF	DIMMING CONTROLS	MULTI-ZONE CONTROL SCHEME	DAYLIGHT HARVESTING	(LIGHT REDUCTION CONTROLS) DIMMING CONTROLS C405.2.3.1	(LIGHT REDUCTION CONTROLS) BI-LEVEL SWITCHING C405.2.3.1	SCHEDULED ON/OFF VIA P.E. OR TIME/CLOCK	NOTES:
MAIN LOBBY 1000 & RECEPTION 1004	•	•	•										• NOTE #3
LOBBY 1001	•	•	•										• NOTE #3
PORCH 1003			•										
MAIL ROOM 1005	•	•			•								
CORRIDOR 1006	•	•			•								• NOTE #3
MEETING 1007	•	•			•								
STORAGE 1008	•	•			•								
CORRIDOR 1009	•	•			•								• NOTE #3
VESTIBULE 1010	•	•			•								• NOTE #3
MEN'S RESTROOM 1011					•								
WOMEN'S RESTROOM 1012					•								
LACTATION 1013	•	•			•								
MAIN BREAK ROOM 1014	•	•			•								
TRAINING ROOM 1015	•	•			•			•					
CORRIDOR 1016	•	•			•								• NOTE #3
CORRIDOR 1017	•	•			•								• NOTE #3
GYM/HEALTH CLUB 1018	•	•			•								• NOTE #3
WOMEN'S LOCKER ROOM 1019					•								
MEN'S LOCKER ROOM 1020					•								
I.T. ROOM 1021	•	•			•								
MAIN JANITOR 1022	•	•			•								
MECHANICAL ROOM 1023	•	•			•								
EQUIPMENT ROOM 1024	•	•			•								
CORRIDOR 1025	•	•			•								• NOTE #3
CORRIDOR 1026	•	•			•								• NOTE #3
EMPLOYEE LOBBY 1027	•	•			•								• NOTE #3
STAIRWELL 1028	•	•			•								• NOTE #3
PORCH 1029					•								
CORRIDOR 1100					•								• NOTE #3
PROJECT SERVICES 1101	•	•			•								
MANAGER 1102	•	•			•								
MANAGER 1103	•	•			•								
MANAGER 1104	•	•			•								
OPEN COLLAB 1105	•	•			•								
MANAGER 1106	•	•			•								
MANAGER 1107	•	•			•								
GENERAL MANAGER 1108	•	•			•								
BOARD ROOM 1109	•	•			•			•					
CORRIDOR 1110					•								
AUTO MANAGER 1111	•	•			•								
AUTO MANAGER 1112	•	•			•								
AUTO MANAGER 1113	•	•			•								
AUTO MANAGER 1114	•	•			•								
AUTOMATION OPEN OFFICE 1115	•	•			•								• NOTE #6
WAR ROOM 1116	•	•			•								
COPY/WORKROOM 1117	•	•			•								
FUTURE 1118	•	•			•								
DESIGN OPEN OFFICE 1119	•	•			•								• NOTE #6
DESIGN MANAGER 1120	•	•			•								
DESIGN MANAGER 1121	•	•			•								
DESIGN MANAGER 1122	•	•			•								
CORRIDOR 1123					•								
SUPPLY 1124	•	•			•								
LAB 1125	•	•			•								

SCHEDULE FOOTNOTES:

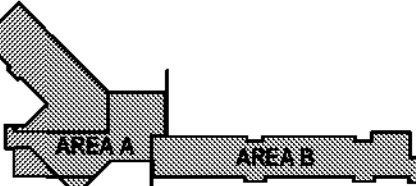
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- IN AREAS WITH MULTI-ZONE CONTROLS SCHEME, PROVIDE A POWER PACK FOR EACH ZONE AND A MULTI-BUTTON WALLPOD CONTROL SWITCH PROGRAMMED FOR EACH BUTTON TO CONTROL ASSOCIATED LIGHTING ZONE.
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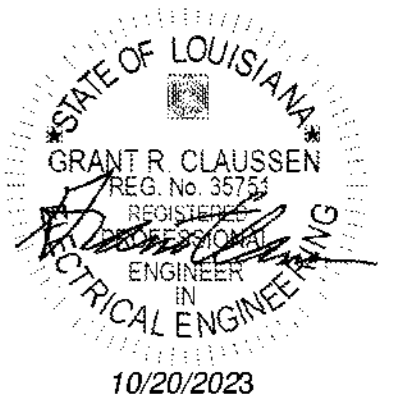
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Phase: Bid Documents
 Date: 10-26-23
 Revisions:



Professional Seal
 Scale: N.T.S.
 SH Description:
Area Lighting Control Summary Schedules

E2.23

**AREA LIGHTING CONTROL SUMMARY SCHEDULE
2ND FLOOR - PART A & PART B**

AREA CONTROLLED	LOCAL MANUAL CONTROL REQUIRED	MANUAL ON	FULL AUTO ON	AUTO OFF	PARTIAL AUTO OFF	DIMMING CONTROLS	MULTI-ZONE CONTROL SCHEME	DAYLIGHT HARVESTING	(LIGHT REDUCTION CONTROLS) DIMMING CONTROLS C405.2.3.1	(LIGHT REDUCTION CONTROLS) BI-LEVEL SWITCHING C405.2.3.1	SCHEDULED ON/OFF	NOTES:
UPPER LOBBY 2000			●		● NOTE #3	●		●			●	
COVERED BALCONY 2001	●			●							●	
CORRIDOR 2100			●		● NOTE #3							
MAIN BOARD ROOM 2101	●	●		●		●	●	●				
SECONDARY BREAK RM 2102	●	●		●								
CORRIDOR 2103			●		● NOTE #3							
OFFICE 2201	●	●		●								
OFFICE 2202	●	●		●								
OPEN COLLAB 2203			●		● NOTE #3							
TYPICAL OFFICES	●	●		●								
CORRIDOR 2274			●		● NOTE #3							
CORRIDOR 2275			●		● NOTE #3							
OFFICE 2276	●	●		●								
SERVER 2277	●	●		●								
EST 2230	●	●		●								
RESTROOMS 2210-2213			●	●								
COPY/WORK ROOM 2227	●	●		●								
LARGE EST ROOM 2228	●	●		●		●						
CONFERENCE 2264 & 2265	●	●		●		●	●	●				
I.T. OFFICES	●	●		●								
CORRIDORS 2274			●		● NOTE #3							
CORRIDORS 2266			●		● NOTE #3							
CORRIDORS 2223			●		● NOTE #3							
OPEN COLLAB 2226			●		● NOTE #3							
OPEN COLLAB 2400			●		● NOTE #3							
MEETING ROOM 2401	●	●		●		●	●	●				
OFFICES 2403-2411	●	●		●								
RESTROOM 2431, 2432			●	●								
AUDIT CONFERENCE 2429	●	●		●		●	●					
COPY/REFRESH 2436	●	●		●								
ACCT FUTURE OFFICES	●	●		●								
ACCTS PAYABLE OFFICES	●	●		●		●		●				
PAYROLL OFFICES 2426, 2433, 2434, 2437	●	●		●		●		●				
EMPL BENEFITS OFFICES 2439, 2440	●	●		●		●		●				
CORRIDORS 2412, 2413, 2427			●		● NOTE #3							
PRESIDENT OFFICE 2414	●	●		●		●		●				
CFO OFFICE 2415	●	●		●		●		●				
STAIRWELLS 2418 & 2239	●	●									●	

SCHEDULE FOOTNOTES:

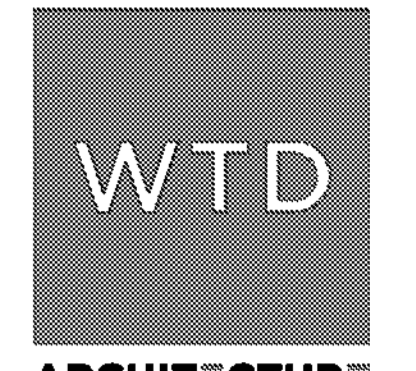
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- GENERAL LIGHTING IN EACH CONTROL ZONE SHALL REDUCE LIGHTING POWER TO AN UNOCCUPIED SETPOINT OF NOT MORE THAN 20 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE CONTROL ZONE.

**AREA LIGHTING CONTROL SUMMARY SCHEDULE
1ST FLOOR - PART B**

AREA CONTROLLED	LOCAL MANUAL CONTROL REQUIRED	MANUAL ON	FULL AUTO ON	AUTO OFF	PARTIAL AUTO OFF	DIMMING CONTROLS	MULTI-ZONE CONTROL SCHEME	DAYLIGHT HARVESTING	(LIGHT REDUCTION CONTROLS) DIMMING CONTROLS C405.2.3.1	(LIGHT REDUCTION CONTROLS) BI-LEVEL SWITCHING C405.2.3.1	SCHEDULED ON/OFF VIA CONTROL PANEL PROGRAMMING	NOTES:
HR LOBBY 1300	●		●		● NOTE #3	●		●			●	
HR ASSISTANTS 1301	●	●		●		●		●				
INTERVIEW 1302	●	●		●		●	●					
VESTIBULE 1303			●	●								
RESTROOM 1304			●	●								
CORRIDOR 1305			●		● NOTE #3							
HEALTH SCREEN 1306	●	●		●								
RESTROOM 1307			●	●								
CORRIDOR 1308			●		● NOTE #3							
MECHANICAL ROOM 1309	●	●										
STAIRWELL 1310 & RISER 1321	●	●									●	
TRAIN MANAGER 1311	●	●		●								
PAYROLL 1312	●	●		●								
HEALTH SCREEN OFFICE 1313	●	●		●								
HR MANAGER 1314	●	●		●								
LICENSE TRAINING 1315	●	●		●								
OFFICE MANAGER 1316	●	●		●								
I.T. ROOM 1317	●	●		●								
CORRIDOR 1318			●		● NOTE #3							
HR STORAGE 1319	●	●		●								
HR TESTING 1320	●	●		●								

SCHEDULE FOOTNOTES:

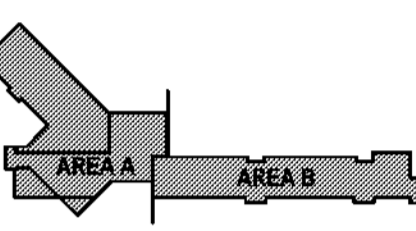
- THIS CONTROL SCHEDULE SUMMARY LISTS CONTROL OPTIONS TO MEET THE LIGHTING CONTROL REQUIREMENTS OF THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC). CONTRACTOR SHALL CONTACT DIGITAL LIGHTING NETWORK SUPPLIER/MANUFACTURER (ACUITY N-LIGHT) AND INCLUDE IN THEIR BID PRICE, ANY ADDITIONAL CABLE, ACCESSORIES, AND/OR 120V CONDUCTORS (FOR SYSTEM CONTROLLER GATEWAY, BRIDGE, ETC) THAT WILL BE NECESSARY FOR COMPLETE NETWORKED LIGHTING CONTROL SYSTEM OPERATION. PROVIDE 120V POWER TO ALL REQUIRED NETWORK BRIDGES, GATEWAYS, ETC.
- ALL FINAL PROGRAMMING TO BE PERFORMED AT COMMISSIONING OF SYSTEM WITH OWNER/ARCHITECTS INPUT. THE NETWORKED LIGHTING SYSTEM HAS THE ABILITY TO CONTROL LIGHTING IN ANY ROOM VIA LIGHTING CONTROL SOFTWARE OR AT GATEWAY IN ELECTRICAL ROOM. (COMMISSIONING OF SYSTEM SHALL MEET THE REQUIREMENTS OF THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C405.
- OCCUPANCY SENSOR CONTROLS IN CORRIDORS (AND OTHER AREAS LISTED IN ABOVE SCHEDULE) SHALL UNIFORMLY REDUCE LIGHTING POWER TO AN OCCUPIED SETPOINT NOT MORE THAN 50 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
- IN AREAS WITH MULTI-ZONE CONTROLS SCHEME, PROVIDE A POWER PACK FOR EACH ZONE AND A MULTI-BUTTON WALLPOD CONTROL SWITCH PROGRAMMED FOR EACH BUTTON TO CONTROL ASSOCIATED LIGHTING ZONE.
- DIMMING CAPABILITY IS TO BE PROVIDED FOR ALL POWER PACKS, WALLPOD CONTROL SWITCHES, AND OCCUPANCY/VACANCY SENSORS IN AREAS WITH DIMMING FUNCTION REQUIRED. IN AREAS WHERE DAYLIGHT HARVESTING IS REQUIRED, PROVIDE ALL COMPONENTS WITH DIMMING CAPABILITY TO AUTOMATICALLY DIM THE LIGHTING TO MEET THE REQUIREMENTS OF 2021 IECC ENERGY CODE.
- GENERAL LIGHTING IN EACH CONTROL ZONE SHALL REDUCE LIGHTING POWER TO AN UNOCCUPIED SETPOINT OF NOT MORE THAN 20 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE CONTROL ZONE.



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Key Plan:



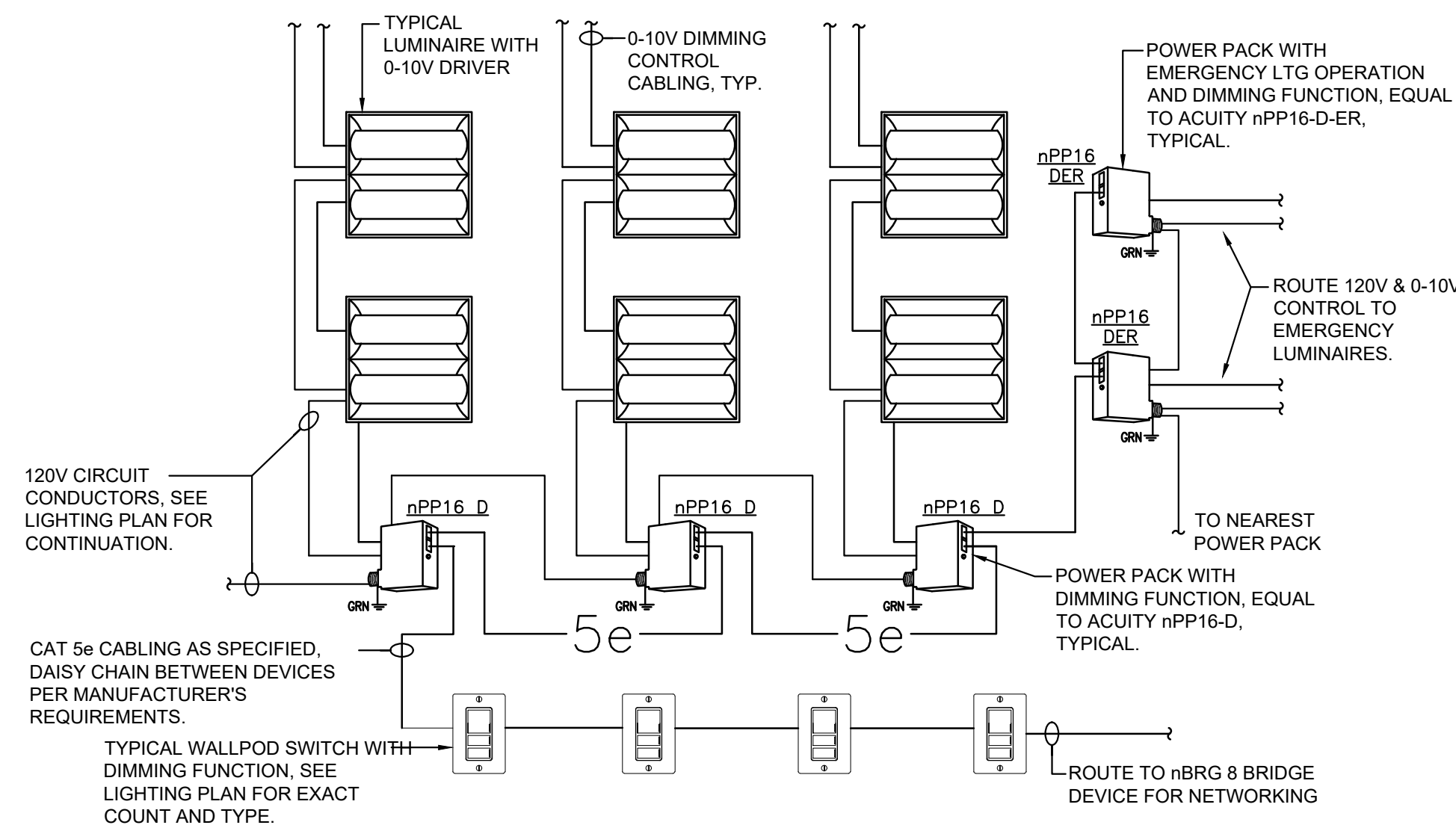
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Phase: Bid Documents
Date: 10-26-23
Revisions:

Professional Seal
Scale: N.T.S.
SM Description:
Area Lighting Control Summary Schedules

Professional Seal
Scale: N.T.S.
SM Description:
Area Lighting Control Summary Schedules



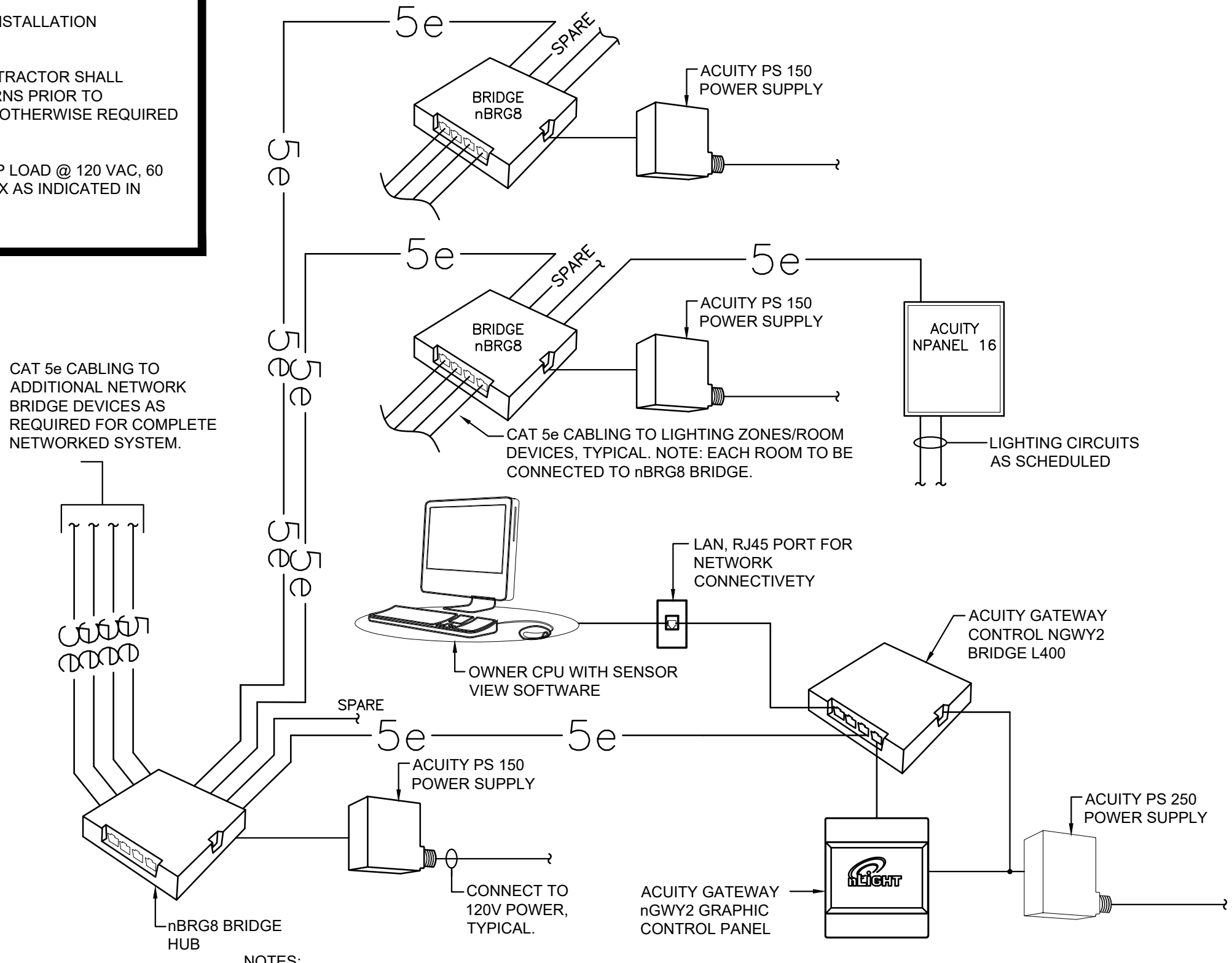
GENERAL DETAIL NOTES:

- 1) SEE LIGHTING PLANS FOR LOCATION REQUIREMENTS OF EMERGENCY LIGHTING RELAY POWER PACKS.
- 2) THIS DETAIL DOESN'T SHOW THE EXACT NUMBER OF ZONES FOR EACH ROOM. SEE LIGHTING PLANS FOR EXACT REQUIREMENTS.

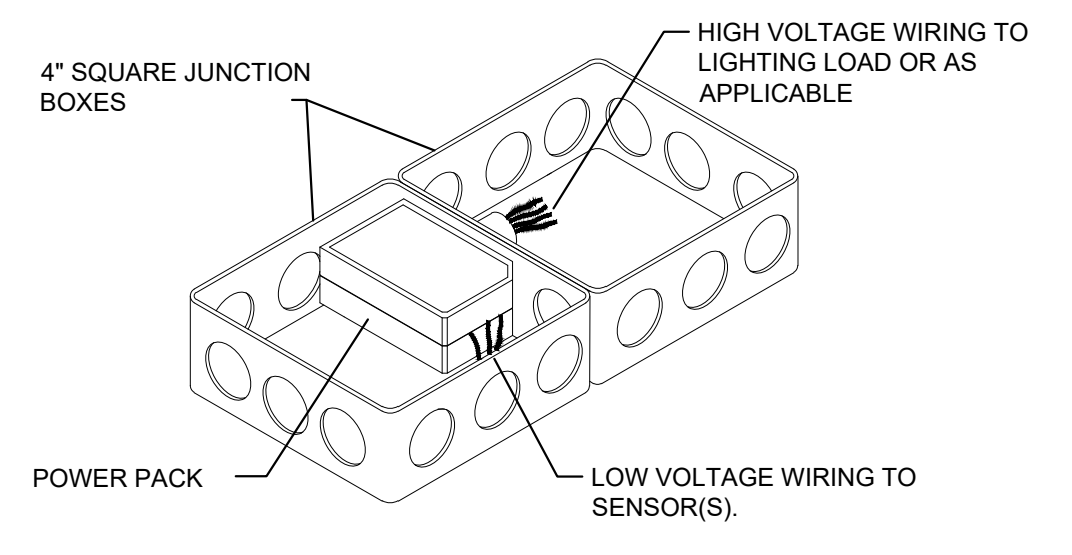
5 LIGHTING CONTROL DIAGRAM
MULTI-ZONE LIGHTING CONTROL WIRING
 Scale: N.T.S.

LIGHTING CONTROL GENERAL NOTES:

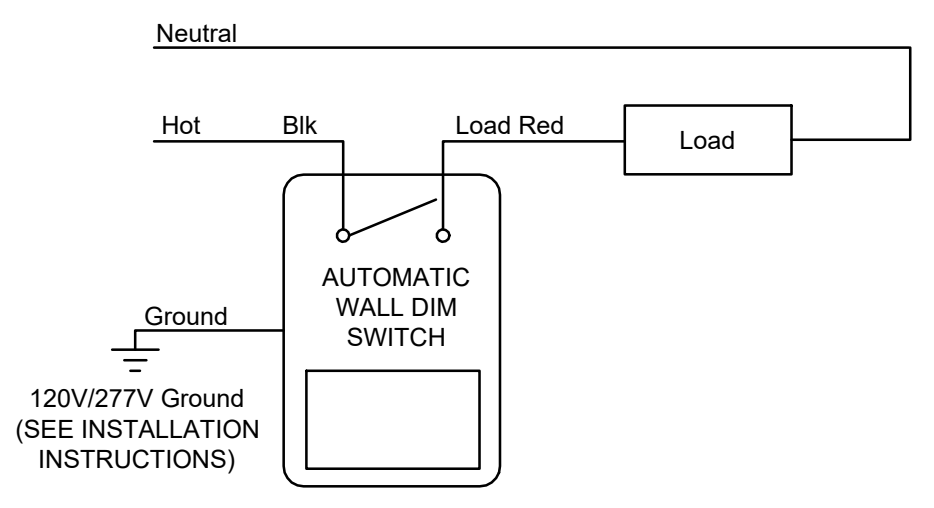
- 1) LIGHTING CONTROL WIRING DIAGRAMS ARE TO SHOW THE MANUFACTURER'S REQUIREMENTS FOR WIRING BETWEEN CONTROL DEVICES (POWER PACKS, WALL POD SWITCHES, OCCUPANCY SENSORS, LUMINAIRES, ETC). THE ELECTRICAL CONTRACTOR SHALL CONNECT SYSTEM BASED ON EXACT LIGHTING CONTROL SYSTEM/MANUFACTURER PROVIDED. CONTRACTOR TO CONTACT DIGITAL LIGHTING NETWORK SUPPLIER/MANUFACTURER (ACUITY N-LIGHT) AND INCLUDE IN THEIR BID, ANY ADDITIONAL CABLE, ACCESSORIES, AND/OR 120V CONDUCTORS (FOR SYSTEM CONTROLLER GATEWAY, BRIDGE, ETC.) THAT WILL BE NECESSARY FOR COMPLETE SYSTEM OPERATION.
- 2) WIRING DIAGRAMS DO NOT INDICATE THE EXACT NUMBER/COUNT OF DEVICES AND LUMINAIRES THAT ARE TO BE INSTALLED IN EACH ROOM. SEE ELECTRICAL PLANS FOR COUNTS.
- 3) EACH ROOM WITH THE ACUITY LIGHTING CONTROL SYSTEM AND OR DEVICES SHALL BE CONNECTED TO THE ACUITY N-LIGHT NETWORK FOR CONTROL OF AREAS USING THE SENSOR VIEW SOFTWARE. CONTRACTOR SHALL ROUTE EACH ROOM TO A nBRG8 NETWORK BRIDGE. SEE NETWORKING WIRING DIAGRAM.
- 4) ALL SENSOR LOCATIONS ARE APPROXIMATE REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- 5) SENSOR COVERAGE AREAS AND PATTERNS VARY BY MANUFACTURER. CONTRACTOR SHALL VERIFY SENSOR LAYOUT WITH CHOSEN MANUFACTURER'S COVERAGE PATTERNS PRIOR TO INSTALLATION. ALL OCCUPANCY SENSORS TO BE DUAL TECHNOLOGY UNLESS OTHERWISE REQUIRED PER MANUFACTURER REQUIREMENTS.
- 6) POWER PACKS SHALL HAVE DRY CONTACTS CAPABLE OF SWITCHING 20-AMP LOAD @ 120 VAC, 60 HZ. INSTALL ALL POWER PACKS ABOVE ACCESSIBLE CEILINGS IN JUNCTION BOX AS INDICATED IN DETAIL.



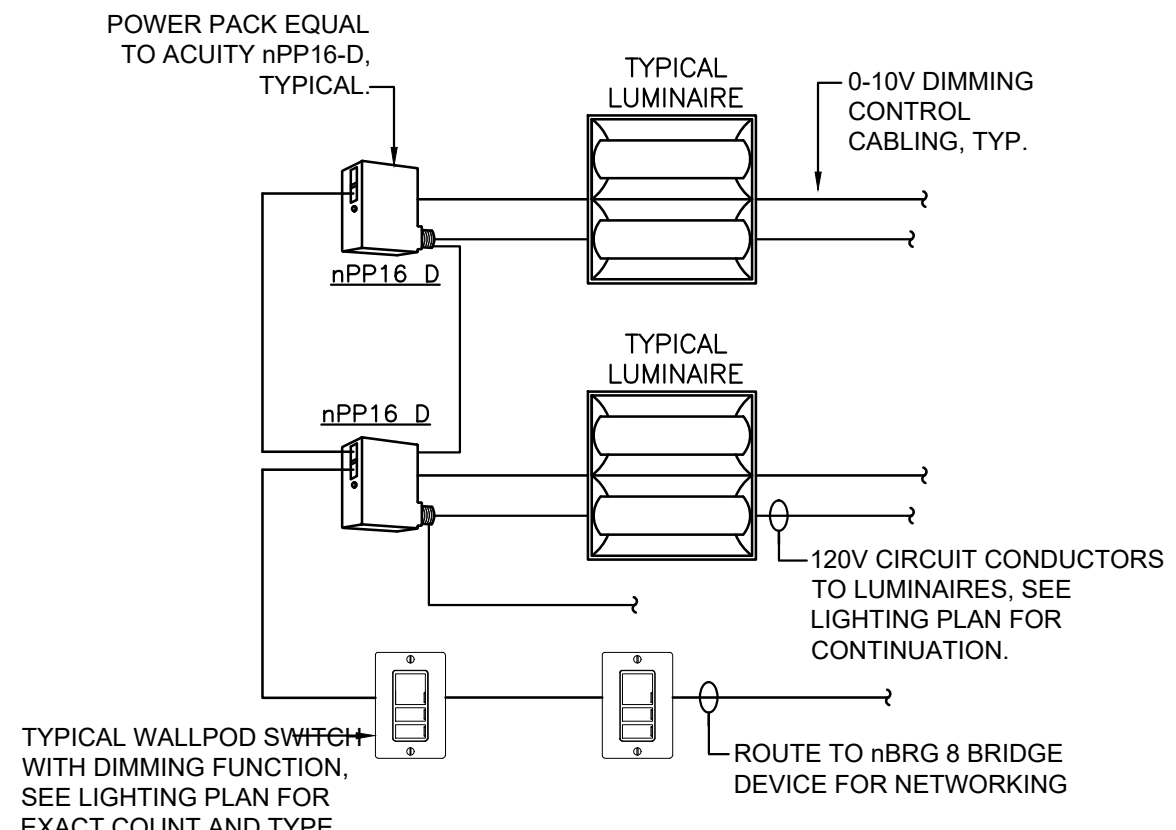
4 LIGHTING CONTROL NETWORKING WIRING DIAGRAM
 Scale: N.T.S.



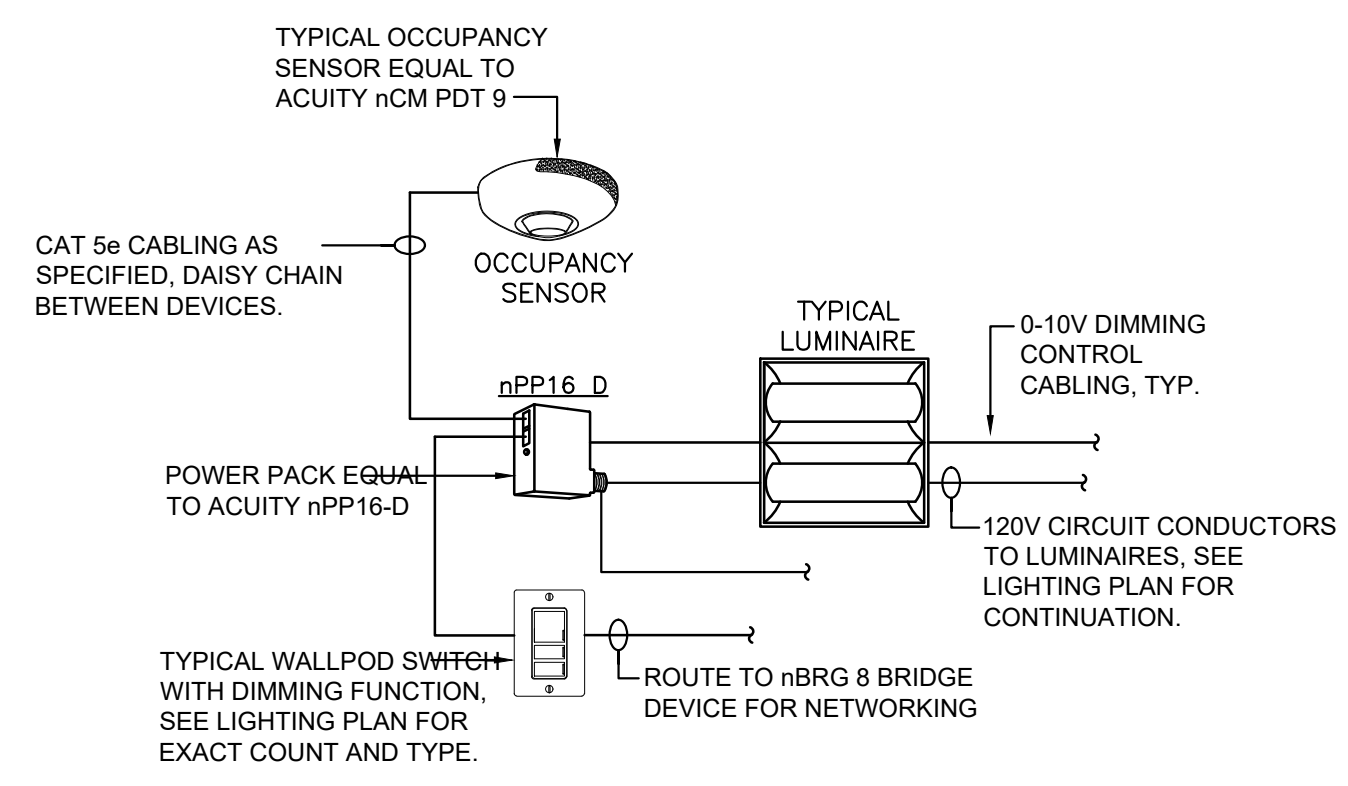
6 POWER PACK MOUNTING DETAIL
 Scale: N.T.S.



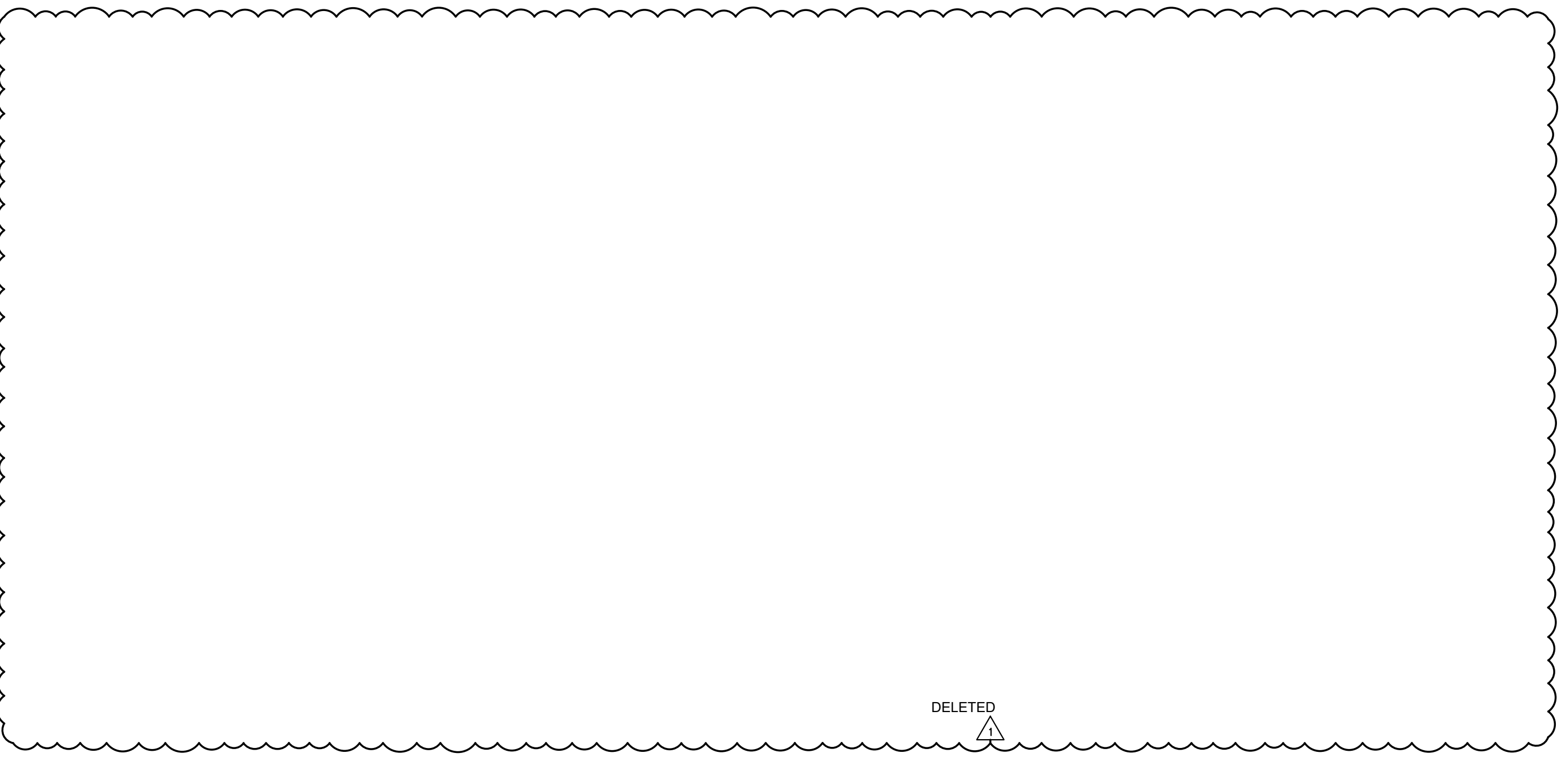
7 WALL BOX VACANCY SENSOR DIAGRAM
 Scale: N.T.S.



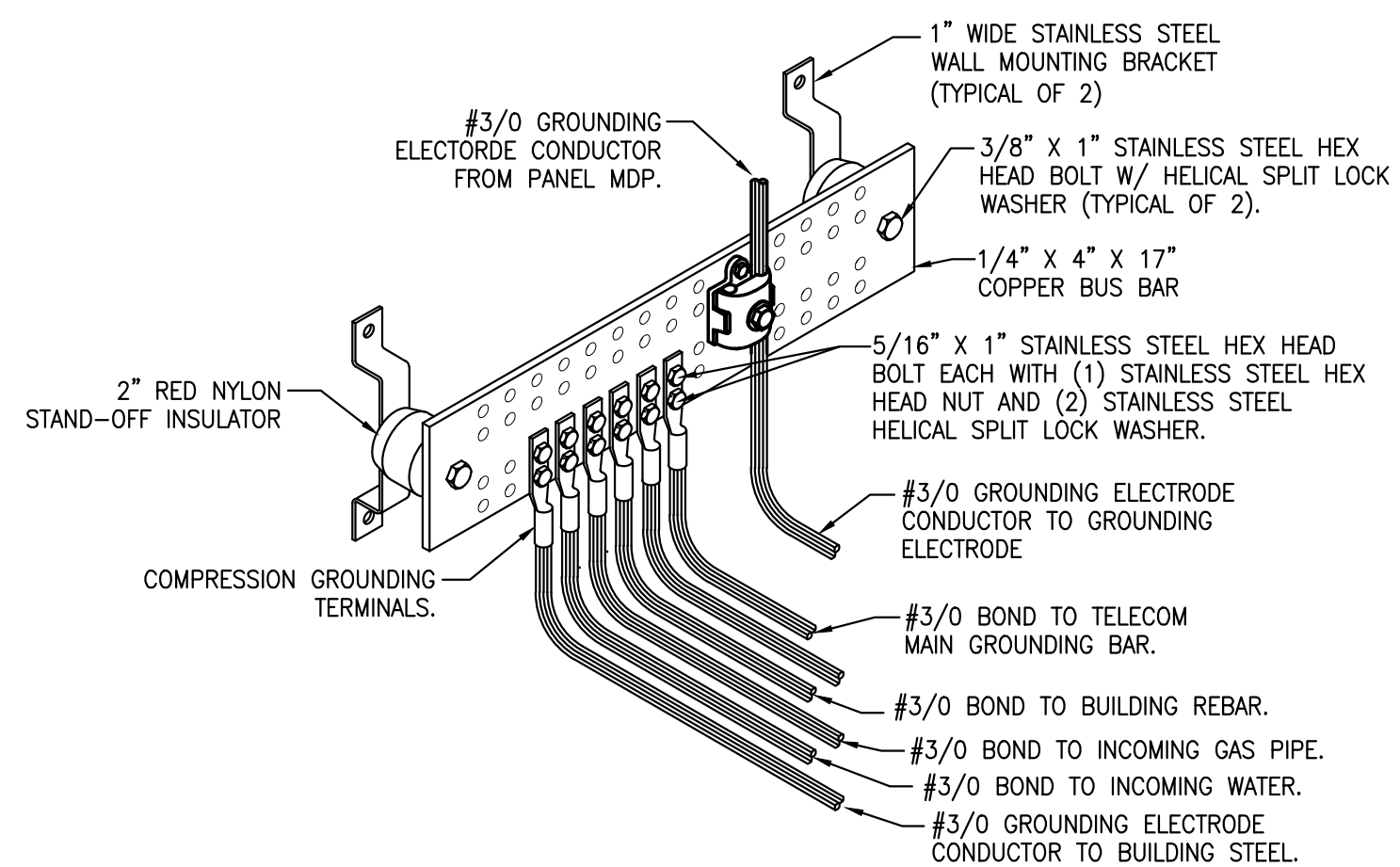
3 LIGHTING CONTROL DIAGRAM
MULTI-ZONE LIGHTING CONTROL WIRING
 Scale: N.T.S.



2 LIGHTING CONTROL DIAGRAM
 Scale: N.T.S.



1 CONTROLLED RECEPTACLE SCHEMATIC WIRING DETAIL
 Scale: N.T.S.



2 Electrical Service External Ground Bus Detail
Scale: N.T.S.

RISER SPECIFIC NOTES:

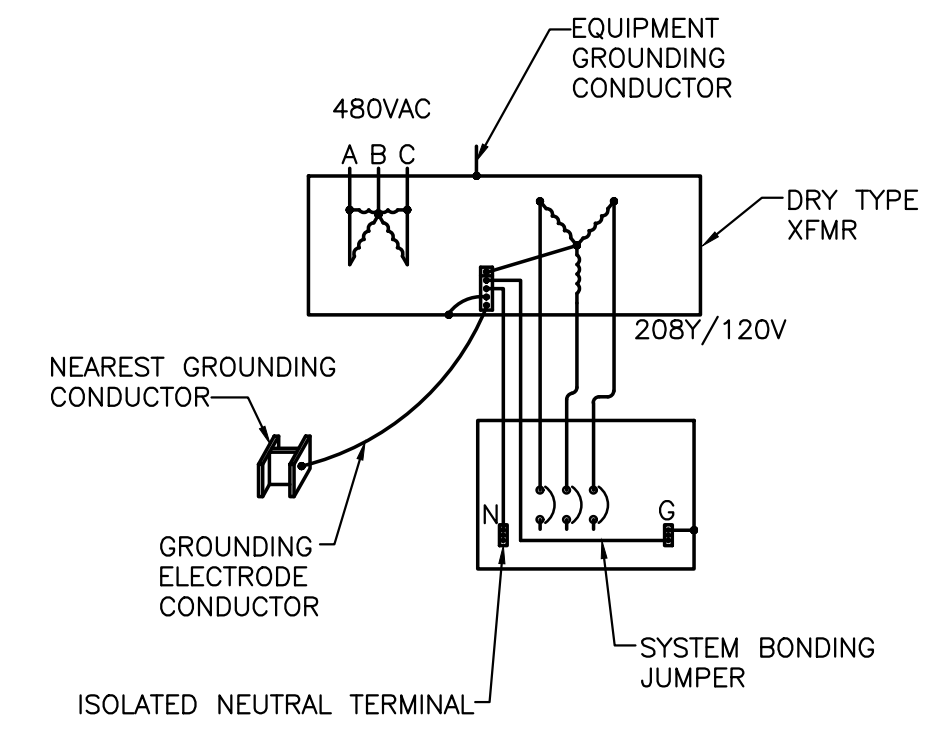
- 1 INSTALL SCHEDULE 40 PVC CONDUITS WITH PULLSTRINGS, FOR UTILITY PRIMARY CONDUCTORS. CONDUITS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, CONDUCTORS TO BE PROVIDED AND INSTALLED BY ELECTRICAL UTILITY COMPANY (ENTERGY). VERIFY WITH ENTERGY, THE SIZE AND NUMBER OF CONDUITS PRIOR TO BID.
- 2 (2) 4-350MCM W/ 1-#1 GROUND, 3" CONDUIT.
- 3 GENERATOR EMERGENCY STOP PUSH BUTTON.
- 4 3-#8 AND 1-#10 GROUND, IN A 1" CONDUIT.
- 5 PROVIDE GROUNDING ELECTRODE SYSTEM THAT MEASURES 25 OHMS OR LESS TO GROUND.
- 6 3-#1 AND 1-#6 GROUND, IN A 1-1/2" CONDUIT.
- 7 4-#4/0 AND 1-#4 GROUND, IN A 2-1/2" CONDUIT.
- 8 3-#4 AND 1-#8 GROUND, IN A 1" CONDUIT.
- 9 4-#1 AND 1-#6 GROUND, IN A 2" CONDUIT.
- 10 4-#6 AND 1-#10 GROUND, IN A 1-1/4" CONDUIT.
- 11 SHUNT TRIP EMERGENCY STOP PUSH BUTTON FOR THE GENERATOR. INSTALL NEXT TO MAIN DISCONNECT.
- 12 PROVIDE A 600AMP SHUNT TRIP CIRCUIT BREAKER ON GENERATOR.
- 13 PROVIDE SIGNAGE STATING, "EMERGENCY STOP FOR EMERGENCY GENERATOR".
- 14 4-600 MCM W/ 1-#3 GND, 3 1/2" CONDUIT.

- 15 SUB METERING HUB FOR NETWORKING AND CONNECTION INTO NETWORK FOR SOFTWARE SUITE OF LEVITON VERIFEYE 8000 SERIES SUB METERING SYSTEM. PROVIDE 120V POWER AND NETWORK CONNECTION AT UNIT AND INTERLOCK WITH ALL SUBMETERS PER MANUFACTURER'S REQUIREMENTS.

- 16 ELECTRICAL SYSTEM MONITORING/SUB METERING TO MEET PER ASHRAE 90.1 OR INTERNATIONAL ENERGY CONSERVATION CODE (IECC). LOADS FOR EACH OF THE FOLLOWING SYSTEMS SHALL HAVE IT'S OWN SUB-METERING DEVICE AND CT CIRCUITS FOR MONITORING EQUAL TO LEVITON VERIFEYE 8000 SERIES. PROVIDE CT'S AND REQUIRED CONNECTIONS FOR A FULLY FUNCTIONING MONITORING/METERING SYSTEM. PROVIDE BRANCH CIRCUIT MONITORING FOR SOME LOADS AS NOTED. PROGRAM SYSTEM TO COMBINE FEEDER/PANEL AND BRANCH CIRCUIT LOADS FOR EACH SIMILAR LOAD CATEGORY IN ORDER TO GET A COMPLETE SUB METERED LOAD FOR EACH LOAD CATEGORY.

- LOAD CATEGORIES REQUIRED TO BE SUB METERED PER ADOPTED ENERGY CODE:**
- 1) TOTAL BLDG ELECTRICAL ENERGY USAGE.
 - 2) HVAC SYSTEMS.
 - 3) INTERIOR LIGHTING.
 - 4) EXTERIOR LIGHTING.
 - 5) PLUG LOADS/RECEPTACLE CIRCUITS.
 - 6) REMAINING BUILDING LOADS NOT INCLUDED IN THE ABOVE LOAD TYPES.

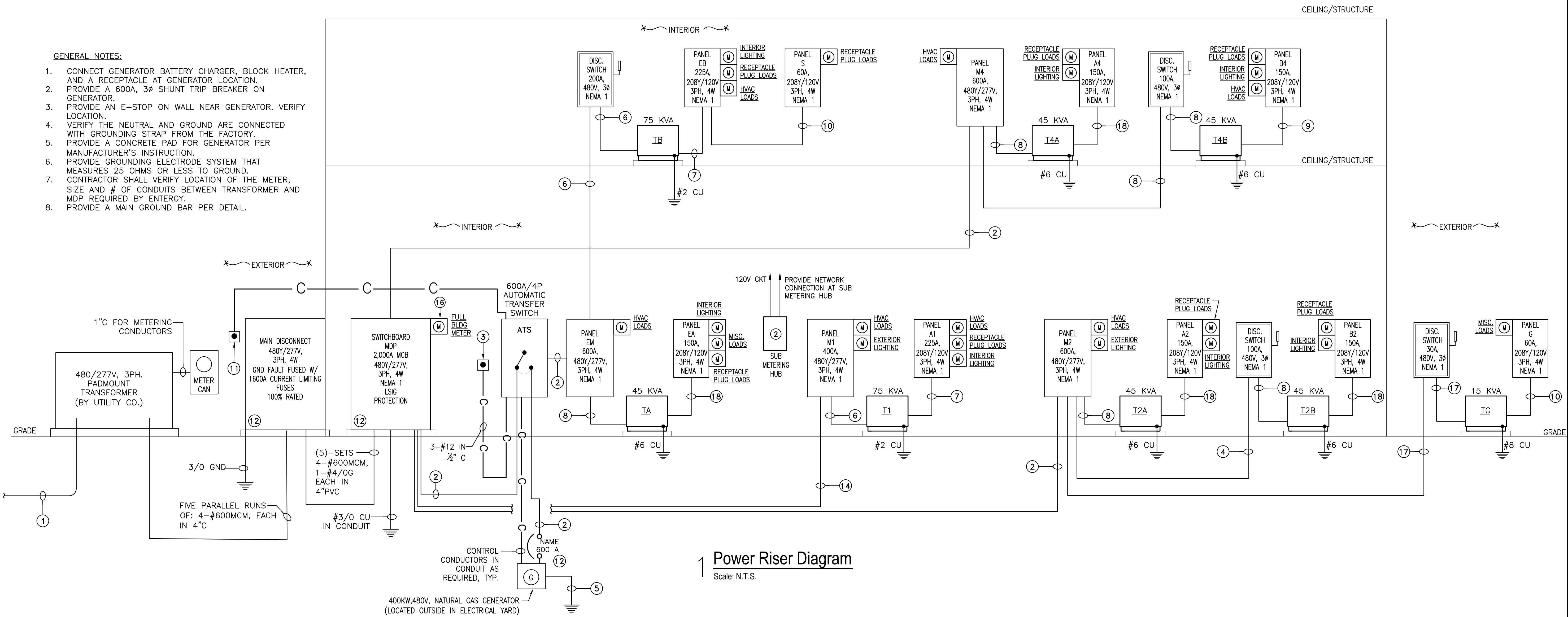
- 17 4-#10, 1-#10 GROUND IN 1" CONDUIT.
- 18 4-#1/0, 1-#6 GROUND IN 2" CONDUIT.



3 Separately Derived System Detail
Scale: N.T.S.

GENERAL NOTES:

1. CONNECT GENERATOR BATTERY CHARGER, BLOCK HEATER, AND A RECEPTACLE AT GENERATOR LOCATION.
2. PROVIDE A 600A, 3Ø SHUNT TRIP BREAKER ON GENERATOR.
3. PROVIDE AN E-STOP ON WALL NEAR GENERATOR. VERIFY LOCATION.
4. VERIFY THE NEUTRAL AND GROUND ARE CONNECTED WITH GROUNDING STRAP FROM THE FACTORY.
5. PROVIDE A CONCRETE PAD FOR GENERATOR PER MANUFACTURER'S INSTRUCTION.
6. PROVIDE GROUNDING ELECTRODE SYSTEM THAT MEASURES 25 OHMS OR LESS TO GROUND.
7. CONTRACTOR SHALL VERIFY LOCATION OF THE METER, SIZE AND # OF CONDUITS BETWEEN TRANSFORMER AND MDP REQUIRED BY ENTERGY.
8. PROVIDE A MAIN GROUND BAR PER DETAIL.



1 Power Riser Diagram
Scale: N.T.S.

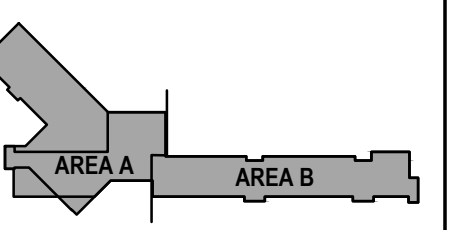


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Phase: Bid Documents
Date: 10-26-23
Revisions:
1 PERMIT REVISIONS, STAMP ADDED 4.1.24



Professional Seal
Scale: (not to scale)
Sht Description:
Power Riser Diagram

North
E3.10

PANEL A1												
MOUNTING: SURFACE												
208Y/120V, 3PH, 4W, 60HZ, 225A MAIN BREAKER, 22KAIC												
LOAD DESCRIPTION	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE A	PHASE B	PHASE C	OCPD	CIRCUIT	LOAD (VA)	LOAD DESCRIPTION	
RECP: BOARD ROOM (1109)	R	360	1	20/1	1283.6			20/1	2	924	LIGHTS: BOARD RM/MGR	
RECP: BOARD ROOM (1109)	R	360	3	20/1		1355.8		20/1	4	996	LIGHTS: AUTO MGR/OPEN OFFICE/CORR	
RECP: BOARD ROOM (1109)	R	720	5	20/1			1335	20/1	6	615	LIGHTS: WAR RM/COPY/DESIGN MGR	
RECP: BOARD ROOM COUNTER (1109)	R	180	7	20/1	997			20/1	8	817	LIGHTS: SOFTWARE/LAB/RR/MECH/JAN	
RECP: GENERAL MGR. (1108)	R	540	9	20/1		1523.5		20/1	10	984	LIGHTS: CORR/EMP LOBBY/PORCH	
RECP: MGR. (1107)	R	540	11	20/1			1002	20/1	12	462	LIGHTS: MGR/PROJ SERVICES	
RECP: MGR. (1106)	R	540	13	20/1	1432.4			20/1	14	892	LIGHTS: LOCKER ROOMS/GYM	
RECP: MGR. (1104)	R	720	15	20/1		1527.4		20/1	16	807	LIGHTS: DESIGN OPEN OFF/OPEN COLAB	
RECP: MGR. (1103)	R	540	17	20/1			1050	20/1	18	510	LIGHTS: STAIR	
RECP: MGR. (1102)	R	540	19	20/1	640			20/1	20	100	WH-1	
RECP: PROJECT SERVICES (1101)	R	540	21	20/1		1080		20/1	22	540	RECP: DESIGN MGR (1120)	
RECP: PROJECT SERVICES (1101)	R	540	23	20/1			1080	20/1	24	540	RECP: DESIGN MGR (1121)	
RECP: AUTO OPEN OFFICE DESK (1115)	R	720	25	20/1	1260			20/1	26	540	RECP: DESIGN MGR (1122)	
RECP: AUTO OPEN OFFICE DESK (1115)	R	720	27	20/1		1620		20/1	28	900	RECP: SUPPLY/EQUIP/MECH/JAN	
RECP: AUTO OPEN OFFICE DESK (1115)	R	720	29	20/1			2160	20/1	30	1440	RECP: LOCKER ROOMS (1019/1020)	
RECP: AUTO OPEN OFFICE DESK (1115)	R	720	31	20/1	1260			20/1	32	540	RECP: IT/MECH/JANITOR	
RECP: AUTO OPEN OFFICE DESK (1115)	R	720	33	20/1		1620		20/1	34	900	RECP: GYM (1018)	
RECP: AUTO OPEN OFFICE DESK (1115)	R	720	35	20/1			1080	20/1	36	360	RECP: GYM TV (1018)	
RECP: DESIGN OPEN OFFICE DESK (1119)	R	720	37	20/1	1720			20/1	38	1000	CARDIO MACHINE	
RECP: DESIGN OPEN OFFICE DESK (1119)	R	720	39	20/1		1720		20/1	40	1000	CARDIO MACHINE	
RECP: DESIGN OPEN OFFICE DESK (1119)	R	720	41	20/1			1720	20/1	42	1000	CARDIO MACHINE	
RECP: DESIGN OPEN OFFICE DESK (1119)	R	720	43	20/1	1720			20/1	44	1000	CARDIO MACHINE	
RECP: CORRIDOR	R	720	45	20/1		1260		20/1	46	540	RECP: AUTO MGR (1111)	
RECP: CORRIDOR	R	720	47	20/1			1260	20/1	48	540	RECP: AUTO MGR (1112)	
RECP: CORRIDOR	R	900	49	20/1	1440			20/1	50	540	RECP: AUTO MGR (1113)	
RECP: SOFTWARE (1126)	R	540	51	20/1		1080		20/1	52	540	RECP: AUTO MGR (1114)	
RECP: SOFTWARE (1126)	R	540	53	20/1			1260	20/1	54	720	RECP: WAR ROOM (1116)	
RECP: EQUIPMENT (1127)	R	540	55	20/1	900			20/1	56	360	RECP: WAR ROOM (1116)	
RECP: LAB (1125)	R	720	57	20/1		1260		20/1	58	540	RECP: WAR ROOM (1116)	
RECP: FUTURE (1118)	R	540	59	20/1			900	20/1	60	360	RECP: WAR ROOM TV (1116)	
RECP: COPY/WORKROOM (1117)	R	720	61	20/1	1080			20/1	62	360	RECP: PORCH (1029)	
PRINTER (1117)	R	180	63	20/1		900		20/1	64	720	RECP: OPEN COLLAB 1105	
PRINTER (1117)	R	180	65	20/1			900	20/1	66	720	RECP: IT OFFICE 1101	
UNDERCOUNTER FRIDGE (1109)	R	500	67	20/1	1220			20/1	68	720	RECP: IT OFFICE 1102	
UNDERCOUNTER FRIDGE (1018)	R	500	69	20/1		1220		20/1	70	720	RECP: IT OFFICE 1103	
RECP: BOARD ROOM COUNTER (1109)	R	180	71	20/1			900	20/1	72	720	RECP: IT OFFICE 1104	
RECP: IT OFFICE 1127	R	720	73	20/1	1440			20/1	74	720	RECP: IT OFFICE 1128	
RECP: IT OFFICE 1128	R	540	75	20/1		1260		20/1	76	720	RECP: IT OFFICE 1129	
SPARE			77	20/1			0	20/1	78		SPARE	
SPARE			79	20/1		0		20/1	80		SPARE	
SPARE			81	20/1		0		20/1	82		SPARE	
SPARE			83	20/1			0	20/1	84		SPARE	
TOTAL LOAD (VA)					16393	17427	14647					

Type of Load	VA LOAD PER PHASE			Calculations		
	A	B	C	Total VA	MULTIPLIER VA LOAD	
Other Loads	-	-	-	-	1.25	-
Other Load Non Cont	2,100	1,000	1,000	4,100	1	4,100
Receptacles	11,660	13,640	12,060	37,360	1	10,000
Receptacles > 10,000	-	-	-	-	0.5	13,680
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	2,633	2,787	1,587	7,007	1.25	8,758
Heating Only	-	-	-	-	1	-
Cooling Only	-	-	-	-	1	-
Motors	-	-	-	-	1	-
Total Load (VA)	16,393	17,427	14,647			
Balance	34%	36%	30%		0.25	-
Largest Motor						-
Total Load (VA)				48,467		36,538
Current (Amps)				135		101

PANEL MDP												
LOCATION: MECHANICAL ROOM												
MOUNTING: SURFACE												
480Y/277V, 3PH, 4W, 60HZ, 2,000A MAIN LUGS, 65KAIC												
LOAD DESCRIPTION	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE A	PHASE B	PHASE C	OCPD	CIRCUIT	LOAD (VA)	TYPE OF LOAD	LOAD DESCRIPTION
PANEL M1	S	65981	1	400A/3P	166,171			600A/3P	2	100190	S	PANEL M2
PANEL M1	S	67930	3			167,068			4	99138	S	PANEL M2
PANEL M1	S	65682	5				165,363		6	99681	S	PANEL M2
PANEL EM (THRU A.T.S.)	S	115514	7	600A/3P	216,286			600A/3P	8	100772	S	PANEL M4
PANEL EM (THRU A.T.S.)	S	115325	9			216,318			10	100993	S	PANEL M4
PANEL EM (THRU A.T.S.)	S	113343	11				211,829		12	98486	S	PANEL M4
SPACE			13	400A/3P	0			225A/3P	14			SPACE
SPACE			15			0			16			SPACE
SPACE			17				0		18			SPACE
SPACE			19	225A/3P	0			225A/3P	20			SPACE
SPACE			21			0			22			SPACE
SPACE			23				0		24			SPACE
SPACE			25	100A/3P	0			100A/3P	26			SPACE
SPACE			27				0		28			SPACE
SPACE			29					0	30			SPACE
TOTAL					382,457	383,386	377,192					TOTAL

TYPE OF LOAD	VA LOAD PER PHASE			CALCULATIONS		
	A	B	C	Total VA	VA LOAD	
Other Loads	2,771	2,771	2,771	8,313	1.25	10,391
Other Load Non Cont	9,642	9,042	8,222	26,906	1	26,906
Receptacles	59,400	59,361	60,021	178,782	1	10,000
Receptacles > 10,000	-	-	-	-	0.5	84,391
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	20,319	18,104	16,406	54,829	1.25	68,536
Heating Only	150,289	151,489	150,289	452,067	1	452,067
Cooling Only	128,902	128,174	128,174	385,250	1	385,250
Motors	11,135	14,447	11,311	36,892	1	36,892
Total Load (VA)	382,458	383,388	377,193			
Balance	33%	34%	33%			
Largest Motor					0.25	-
Total Load (VA)				1,143,039		1,074,434
Current (Amps)				1,375		1,292

PANEL M1												
LOCATION: MECHANICAL ROOM												
MOUNTING: SURFACE												
480Y/277V, 3PH, 4W, 60HZ, 400A MAIN LUGS, 65KAIC												
LOAD DESCRIPTION	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE A	PHASE B	PHASE C	OCPD	CIRCUIT	LOAD (VA)	TYPE OF LOAD	LOAD DESCRIPTION
RTU-1	C	23805	1	110A/3P	26,271			15A/3P	2	2466	H	VAV-8
RTU-1	C	23805	3			26,271			4	2466	H	VAV-8
RTU-1	C	23805	5				26,271		6	2466	H	VAV-8
PANEL A1 (THRU XFRMR 1)	S	14233	7	125A/3P	16,699			15A/3P	8	2466	H	VAV-9
PANEL A1 (THRU XFRMR 1)	S	14727	9			17,193			10	2466	H	VAV-9
PANEL A1 (THRU XFRMR 1)	S	13387	11				15,853		12	2466	H	VAV-9
VAV-1	H	1533	13	15A/3P	3,433			15A/3P	14	1900	H	VAV-10
VAV-1	H	1533	15			3,433			16	1900	H	VAV-10
VAV-1	H	1533	17				3,433		18	1900	H	VAV-10
VAV-2	H	2200	19	15A/3P	5,066			15A/3P	20	2866	H	VAV-11
VAV-2	H	2200	21			5,066			22	2866	H	VAV-11
VAV-2	H	2200	23				5,066		24	2866	H	VAV-11
VAV-3	H	3166	25	15A/3P	3,735			20A/2P	26	569	L	PARKING LOT LIGHTS
VAV-3	H	3166	27			3,735			28	569	L	PARKING LOT LIGHTS
VAV-3	H	3166	29				3,627		30	461	L	PARKING LOT LIGHTS
VAV-4	H	1900	31	15A/3P	2,361			20A/1P	34	1200	L	LGPSU WALLTGT POWER SUPPLIES
VAV-4	H	1900	33			3,100			36	1200	L	LGPSU WALLTGT POWER SUPPLIES
VAV-4	H	1900	35				3,100		38	84	L	FLOOD LIGHTS
VAV-5	H	2766	37	15A/3P	2,850			20A/1P	40	800	L	BOLLARD LIGHTING
VAV-5	H	2766	39			3,566			42			SPARE
VAV-5	H	2766	41				2,766		44	1200	L	LGPSU WALLTGT POWER SUPPLIES
VAV-6	H	1900	43	15A/3P	3,100			20A/1P	46	1200	L	LGPSU WALLTGT POWER SUPPLIES
VAV-6	H	1900	45			3,100			48	1200	L	LGPSU WALLTGT POWER SUPPLIES
VAV-6	H	1900	47				3,100		49	1200	L	LGPSU WALLTGT POWER SUPPLIES
VAV-7	H	2466	49	15A/3P	2,466			20A/1P	50			SPACE
VAV-7	H	2466	51			2,466			52			SPACE
VAV-7	H	2466	53				2,466		54			SPACE
SPACE			55				0		56			SPACE
SPACE			57				0		58			SPACE
SPACE			59					0	60			SPACE
TOTAL					65,981	67,930	65,682					TOTAL

TYPE OF LOAD	VA LOAD PER PHASE			CALCULATIONS		
	A	B	C	Total VA	VA LOAD	
Other Loads	-	-	-	-	1.25	-
Other Load Non Cont	2,100	1,000	1,000	4,100	1	4,100
Receptacles	9,500	10,940	10,800	31,240	1	10,000
Receptacles > 10,000	-	-	-	-	0.5	10,620
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	4,947	6,556	4,448	15,951	1.25	19,938
Heating Only	25,629	25,629	25,629	76,887	1	76,887
Cooling Only	23,805	23,805	23,805	71,415	1	71,415
Motors	-	-	-	-	1	-
Total Load (VA)	65,981	67,930	65,682			
Balance	33%	34%	33%			
Largest Motor					0.25	-
Total Load (VA)						

PANEL B2											MOUNTING: SURFACE					
208Y/120V, 3PH, 4W, 60HZ, 150A MAIN BREAKER, 22KAIC											L1	L2	L3			
Load Description	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	Load Description					
					A	B	C									
RECP: COOM PM (1225)	R	540	1	20/1	1464			20/1	2	924	LIGHTS: COMM/SAFETY/CM/PC					
RECP: COMM COOR (1226)	R	540	3	20/1		1380		20/1	4	840	LIGHTS: GM/PM/BD					
RECP: SAFETY MGR (1233)	R	540	5	20/1			1272.4	20/1	6	732	LIGHTS: RR/FLEX/COPY/BD					
RECP: SAFETY FUTURE (1234)	R	540	7	20/1	1473			20/1	8	933	LIGHTS: IT/MGR OFF/LICENSE/HR					
RECP: CM (1236)	R	540	9	20/1		1617.8		20/1	10	1078	LIGHTS: HR LOBBY/INTERVIEW/PAYROLL					
RECP: CM FUTURE (1237)	R	540	11	20/1			1766.5	20/1	12	1227	LIGHTS: CORRIDOR/STAIR					
RECP: PC (1240)	R	540	13	20/1	900			20/1	14	360	RECP: REFRESHMENT (1235)					
RECP: PC FUTURE (1241)	R	540	15	20/1		1040		20/1	16	500	REFRIGERATOR					
RECP: FLEX FUTURE (1242)	R	540	17	20/1			900	20/1	18	360	RECP: STORAGE/JAN (1232/1252)					
RECP: HR ASSITANTS (1301)	R	900	19	20/1	1620			20/1	20	720	RECP: RESTROOMS (1228-1231)					
RECP: HR LOBBY (1300)	R	540	21	20/1		1080		20/1	22	540	RECP: PM (1256)					
RECP: HR LOBBY (1300)	R	720	23	20/1			1260	20/1	24	540	RECP: PM (1255)					
WATER FOUNTAIN	M	528	25	20/1	1068			20/1	26	540	RECP: PM (1254)					
RECP: RESTROOMS (1304/1307)	R	360	27	20/1		900		20/1	28	540	RECP: PM (1253)					
RECP: INTERVIEW (1302)	R	540	29	20/1			1080	20/1	30	540	RECP: PM FUTURE (12250)					
RECP: INTERVIEW (1302)	R	360	31	20/1	900			20/1	32	540	RECP: PM FUTURE (1249)					
RECP: OFFICE 1304	R	540	33	20/1		1080		20/1	34	540	RECP: BD (1248)					
RECP: HR TESTING (1320)	R	720	35	20/1			1620	20/1	36	900	RECP: BD/IT (1247/1317)					
RECP: HR TESTING (1320)	R	360	37	20/1	900			20/1	38	540	RECP: OFFICE MGR (1316)					
RECP: HR/BD STORAGE (1319/1246)	R	720	39	20/1		1260		20/1	40	540	RECP: LICENSE TRAINING (1315)					
RECP: COPY/WORK (1239)	R	360	41	20/1			900	20/1	42	540	RECP: HR MGR (1314)					
PRINTER (1239)	R	180	43	20/1	720			20/1	44	540	RECP: HEALTH SCREEN (1313)					
PRINTER (1239)	R	181	45	20/1		721		20/1	46	540	RECP: PAYROLL (1312)					
RECP: CORRIDOR	R	540	47	20/1			1080	20/1	48	540	RECP: TRAIN MGR (1311)					
RECP: CORRIDOR	R	720	49	20/1	1720			20/1	50	1000	BACKLIT LOGO SIGNAGE					
RECP: FLEX FUTURE (1238)	R	540	51	20/1		2460		20/1	52	1920	POND FOUNTAIN					
RECP: FLEX FUTURE (1251)	R	540	53	20/1			1540	20/1	54	1000	BFP HOT BOX					
RECP: OFFICE 1303	R	540	55	20/1	1540			20/1	56	1000	BACKLIT LOGO SIGNAGE					
POND FOUNTAIN	M	1920	57	20/1		2100		20/1	58	180	RECP: IT (1317)					
RECP: REFRIGERATOR	R	500	59	20/1			1040	20/1	60	540	RECP: OFFICE 1322					
RECP: OFFICE 1323	R	540	61	20/1	540			20/1	62		SPARE					
SPARE			63	20/1		0		20/1	64		SPARE					
SPARE			65	20/1			0	20/1	66		SPARE					
SPARE			67	20/1	0			20/1	68		SPARE					
SPARE			69	20/1		0		20/1	70		SPARE					
SPARE			71	20/1			0	20/1	72		SPARE					
SPARE			73	20/1	0			20/1	74		SPARE					
SPARE			75	20/1			0	20/1	76		SPARE					
SPARE			77	20/1			0	20/1	78		SPARE					
SPARE			79	20/1	0			20/1	80		SPARE					
SPARE			81	20/1		0		20/1	82		SPARE					
SPARE			83	20/1			0	20/1	84		SPARE					
TOTAL LOAD (VA)					12845	13639	12459									

Type of Load	VA LOAD PER PHASE			Total VA	Calculations	
	A	B	C		MULTIPLIER	VA LOAD
Other Loads	-	-	-	-	1.25	-
Other Load Non Cont	-	-	-	500	1	500
Receptacles	8,460	7,381	10,500	26,341	1	10,000
Receptacles > 10,000	-	-	-	-	0.5	8,171
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	3,857	1,918	1,959	7,734	1.25	9,667
Heating Only	-	-	-	-	1	-
Cooling Only	-	-	-	-	1	-
Motors	528	3,840	-	4,368	1	4,368
Total Load (VA)	12,845	13,639	12,459			
Balance	33%	35%	32%			
Largest Motor				528	0.25	132
Total Load (VA)				38,943		32,838
Current (Amps)				108		91

PANEL M2											MOUNTING: SURFACE					
480Y/277V, 3PH, 4W, 60HZ, 600A MAIN LUGS, 65KAIC											L1	L2	L3			
LOAD DESCRIPTION	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	LOAD DESCRIPTION					
					A	B	C									
RTU-3	C	14964	1	60A/3P	24,698			70A/3P	2	9734	PANEL A2 (THRU XFRMR T2A)					
	C	14964	3			23,473			4	8509						
	C	14964	5				25,167		6	10203						
SPARE			7	15A/3P	12,845			70A/3P	8	12845	PANEL B2 (THRU XFRMR T2B)					
			9			13,639			10	13639						
			11				12,459		12	12459						
VAV-15	H	1533	13	15A/3P	27,199			15A/3P	14	25666	VAV-22					
	H	1533	15			27,199			16	25666						
	H	1533	17				27,199		18	25666						
VAV-16	H	2200	19	15A/3P	4,300			15A/3P	20	2100	VAV-23					
	H	2200	21			4,300			22	2100						
	H	2200	23				4,300		24	2100						
VAV-17	H	3166	25	15A/3P	5,533			15A/3P	26	2367	VAV-24					
	H	3166	27			5,533			28	2367						
	H	3166	29				5,533		30	2367						
VAV-18	H	1900	31	15A/3P	4,267			15A/3P	32	2367	VAV-25					
	H	1900	33			4,267			34	2367						
	H	1900	35				4,267		36	2367						
VAV-19	H	2766	37	20A/3P	4,366			15A/3P	38	1600	VAV-26					
	H	2766	39			4,366			40	1600						
	H	2766	41				4,366		42	1600						
VAV-20	H	1900	43	20A/3P	6,633			25A/3P	44	4733	VAV-27					
	H	1900	45			6,633			46	4733						
	H	1900	47				6,633		48	4733						
VAV-21	H	2466	49	20A/3P	5,066			20A/3P	50	2600	VAV-28					
	H	2466	51			5,066			52	2600						
	H	2466	53				5,066		54	2600						
PARKING LOT LIGHTING	L	892	55	20A/2P	3,663			20A/3P	56	2771	O WATER HEATER WH-2					
	L	892	57			3,663			58	2771	O					
SPARE			59	20A/1P			2,771		60	440	L BOLLARD LIGHTING					
PANEL G (THRU XFRMR TG)	S	1180	61	60A/3P	1,620			20A/1P	62		SPARE					
	S	1000	63	20A/1P			1,000		64		SPARE					
	S	1920	65	20A/1P			1,920		66		SPARE					
SPARE			67	20A/1P			0		68		SPARE					
SPARE			69	20A/1P			0		70		SPARE					
SPARE			71	20A/1P			0		72		SPARE					
SPARE			73	20A/1P			0		74		SPACE					
SPARE			75	20A/1P			0		76		SPACE					
SPARE			77	20A/1P			0		78		SPACE					
SPARE			79	20A/1P			0		80		SPACE					
SPARE			81	20A/1P			0		82		SPACE					
SPARE			83	20A/1P			0		84		SPACE					
TOTAL					100,190	99,139	99,681				TOTAL					

TYPE OF LOAD	VA LOAD PER PHASE			CALCULATIONS		
	A	B	C	Total VA	MULT.	VA LOAD
Other Loads	2,771	2,771	2,771	8,313	1.25	10,391
Other Load Non Cont	-	500	-	500	1	500
Receptacles	16,640	14,401	19,140	50,181	1	10,000
Receptacles > 10,000	-	-	-	-	0.5	20,091
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	6,923	4,299	5,442	16,664	1.25	20,830
Heating Only	57,364	57,364	57,364	172,092	1	172,092
Cooling Only	14,964	14,964	14,964	44,892	1	44,892
Motors	1,528	4,840	-	6,368	1	6,368
Total Load (VA)	100,190	99,139	99,681			
Balance	34%	33%	33%			
Largest Motor					0.25	-
Total Load (VA)				299,010		285,164
Current (Amps)				360		343

PANEL A2											MOUNTING: SURFACE					
208Y/120V, 3PH, 4W, 60HZ, 150A MAIN BREAKER, 22KAIC											L1	L2	L3			
Load Description	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	Load Description					
					A	B	C									
RECP: ACCT MGR (1203)	R	540	1	20/1	1392			20/1	2	852	LIGHTS: ACCT/BD/COMM					
RECP: ACCT MGR (1204)	R	540	3	20/1		1392		20/1	4	852	LIGHTS: PRESIDENT/PM/GM					
RECP: BD (1206)	R	540	5	20/1			1466.2	20/1	6	926	LIGHTS: LOBBY/CONF/PLY/COPY/ELEC/RR					
RECP: BD (1207)	R	540	7	20/1	1422			20/1	8	882	LIGHTS: CONF/NGI STO/BOARD RM					
RECP: COMM FUTURE (1208)	R	540	9	20/1		1177		20/1	10	637	LIGHTS: OPEN COLAB					
RECP: COMM TEAM ROOM (1211)	R	1080	11	20/1			1717	20/1	12	637	LIGHTS: CORRIDOR					
RECP: COMM MGR (1218)	R	540	13	20/1	1080			20/1	14	540	RECP: BD SUPPLY (1209)					
RECP: COMM MGR (1219)	R	540	15	20/1		1080		20/1	16	540	RECP: CONFERENCE (1201)					
RECP: OPEN COLAB (1258)	R	720	17	20/1			1080	20/1	18	360	RECP: CONFERENCE (1201)					
RECP: OPEN COLAB (1258)	R	720	19	20/1	1420			20/1	20	700	RECP: PRESIDENT (1270)					
RECP: COMM PM (1223)	R	540	21	20/1			1080	20/1	22	540	RECP: PM (1267)					
RECP: COMM PM (1224)	R	540	23	20/1			1080	20/1	24	540	RECP: PM (1266)					
RECP: NGI STO/CONF (1260/1222)	R	900	25	20/1	1440			20/1	26	540	RECP: PM (1265)					
RECP: CONFERENCE (1222)	R	360	27	20/1			900	20/1	28	540	RECP: PM (1264)					
RECP: CONFERENCE (1220)	R	720	29	20/1			1260	20/1	30	540	RECP: FUTURE PM (1263)					
RECP: CONFERENCE (1220)	R	360	31	20/1	900			20/1	32	540	RECP: FUTURE PM (1262)					
RECP: RESTROOMS (1214/1216)	R	720	33	20/1		1260	</									

PANEL EM												
LOCATION: ELECTRICAL RM #1210							MOUNTING: SURFACE					
480Y/277V, 3PH, 4W, 60HZ, 600A MAIN LUGS, 65kAIC												
LOAD DESCRIPTION	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	TYPE OF LOAD	LOAD DESCRIPTION
					A	B	C					
RTU-2	C	14964	1	60A/3P	40,459			110A/3P	2	25495	C	RTU-5
	C	14964	3		40,459				4	25495	C	
	C	14964	5			40,459			6	25495	C	
VAV-29	H	3133	7	15A/3P	10,733			40A/3P	8	7600	H	VAV-12
	H	3133	9		10,733				10	7600	H	
	H	3133	11			10,733			12	7600	H	
VAV-30	H	4000	13	20A/3P	5,900			15A/3P	14	1900	H	VAV-13
	H	4000	15		5,900				16	1900	H	
	H	4000	17			5,900			18	1900	H	
VAV-31	H	2665	19	20A/3P	10,265			40A/3P	20	7600	H	VAV-14
	H	2665	21		10,265				22	7600	H	
	H	2665	23			10,265			24	7600	H	
VAV-32	H	2665	25	15A/3P	5,436			20A/3P	26	2771	ON	WATER HEATER WH-3
	H	2665	27		5,436				28	2771	ON	
	H	2665	29			5,436			30	2771	ON	
VAV-33	H	1600	31	15A/3P	12,714			70A/3P	32	11114		PANEL EA (THRU XFRMR TA)
	H	1600	33		14,284				34	12684		
	H	1600	35			12,866			36	11266		
VAV-34	H	2133	37	15A/3P	25,275			125A/3P	38	23142		PANEL EB (THRU XFRMR TB)
	H	2133	39		23,516				40	21383		
	H	2133	41			22,952			42	20819		
VAV-35	H	4733	43	15A/3P	4,733			20A/1P	44			SPARE
	H	4733	45		4,733			20A/1P	46			SPARE
	H	4733	47			4,733		20A/1P	48			SPARE
SPARE			49	20A/1P	0			20A/1P	50			SPARE
SPARE			51	20A/1P	0			20A/1P	52			SPARE
SPARE			53	20A/1P	0			20A/1P	54			SPARE
SPARE			55	20A/1P	0			20A/1P	56			SPARE
SPARE			57	20A/1P	0			20A/1P	58			SPARE
SPARE			59	20A/1P	0			20A/1P	60			SPARE
SPARE			61	20A/1P	0			20A/1P	62			SPARE
SPARE			63	20A/1P	0			20A/1P	64			SPARE
SPARE			65	20A/1P	0			20A/1P	66			SPARE
SPARE			67	20A/1P	0			20A/1P	68			SPARE
SPARE			69	20A/1P	0			20A/1P	70			SPARE
SPARE			71	20A/1P	0			20A/1P	72			SPARE
TOTAL					115,515	115,326	113,344					TOTAL

TYPE OF LOAD	VA LOAD PER PHASE			CALCULATIONS		
	A	B	C	Total VA	MULT.	VA LOAD
Other Loads	-	-	-	-	1.25	-
Other Load Non Cont	3,271	3,771	3,451	10,493	1	10,493
Receptacles	17,540	18,080	16,220	51,840	1	10,000
Receptacles > 10,000	-	-	-	0.5	20,920	-
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	5,153	3,452	3,674	12,279	1.25	15,349
Heating Only	38,029	39,229	38,029	115,287	1	115,287
Cooling Only	41,915	41,187	41,187	124,289	1	124,289
Motors	9,607	9,607	10,783	29,996	1	29,996
Total Load (VA)	115,515	115,326	113,344			
Balance	34%	34%	33%			
Largest Motor				0.25		
Total Load (VA)				344,184		326,334
Current (Amps)				414		393

PANEL EB												
208Y/120V, 3PH, 4W, 60HZ, 225A MAIN BREAKER, 22kAIC							MOUNTING: SURFACE					
Load Description	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	TYPE OF LOAD	Load Description
					A	B	C					
RECP: ACCT MGR (2419)	R	540	1	20/1	1632			20/1	2	1092	L	LIGHTS: PAYABLE/ACCTS/FIN/PAYROLL
RECP: PAYROLL (2420)	R	540	3	20/1		1369.5		20/1	4	830	L	LIGHTS: CORRIDOR
RECP: PAYROLL (2421)	R	540	5	20/1			1442.3	20/1	6	902	L	LIGHTS: ELEC/CFO/PRESIDENT/SAFETY
RECP: PAYROLL (2423)	R	540	7	20/1	1542.8			20/1	8	1003	L	LIGHTS: ACCT/FILE/MECH/AUDIT/RR/COPY
RECP: PAYROLL (2425)	R	540	9	20/1		999		20/1	10	459	L	LIGHTS: OPEN COLLAB/MEETING
RECP: ACCTS PAYABLE (2426)	R	540	11	20/1			1512	20/1	12	972	L	LIGHTS: LOBBY
RECP: ACCTS PAYABLE (2433)	R	540	13	20/1	1584			20/1	14	1044	L	LIGHTS: UPPER LOBBY/BALCONY
RECP: ACCTS PAYABLE (2434)	R	540	15	20/1		1199.6		20/1	16	660	L	LIGHTS: MAIN BOARDROOM
RECP: ACCTS PAYABLE (2437)	R	540	17	20/1			1050	20/1	18	510	L	LIGHTS: STAIR
RECP: EMPL BENEFITS (2439)	R	540	19	20/1	1080			20/1	20	540	R	RECP: LEGAL MGR (2406)
RECP: EMPL BENEFITS (2440)	R	540	21	20/1		1080		20/1	22	540	R	RECP: IT/STR MGR (2405)
RECP: FIN SERVICES (2441)	R	540	23	20/1			1080	20/1	24	540	R	RECP: RISK MGMT (2404)
RECP: FIN SERVICES (2442)	R	540	25	20/1	1080			20/1	26	540	R	RECP: CONTROL (2403)
RECP: FUTURE (2300)	R	720	27	20/1		1080		20/1	28	360	R	RECP: MEETING (2401)
SPARE	R	540	29	20/1			900	20/1	30	360	R	RECP: MEETING (2401)
RECP: ACCT FUTURE (2438)	R	720	31	20/1	1440			20/1	32	720	R	RECP: OPEN OFFICE COLAB (2400)
RECP: ACCT FUTURE (2402)	R	720	33	20/1		1440		20/1	34	720	R	RECP: OPEN OFFICE COLAB (2400)
PRINTER (2436)	R	180	35	20/1			720	20/1	36	540	R	RECP: CORRIDOR
PRINTER (2436)	R	180	37	20/1	720			20/1	38	540	R	RECP: CORRIDOR
RECP: REFRIG COPY 2436	R	500	39	20/1			1040	20/1	40	540	R	RECP: CFO (2415)
RECP: RESTROOMS/JAN (2430-2432)	R	540	41	20/1			1260	20/1	42	720	R	RECP: PRESIDENT (2414)
RECP: AUDIT CONF (2429)	R	360	43	20/1	900			20/1	44	540	R	RECP: SAFETY MGR (2411)
RECP: AUDIT CONF (2429)	R	540	45	20/1		1080		20/1	46	540	R	RECP: QA/QC (2409)
RECP: MECH/FILE (2408/2424)	R	720	47	20/1			1260	20/1	48	540	R	RECP: LEGAL MGR (2407)
RECP: MGMT FUTURE (2410)	R	540	49	20/1	1020			20/1	50	480	R	ELEVATOR CAB CTRL POWER
RECP: ACCT FUTURE (2422)	R	540	51	20/1		1260		60/3	52	720	S	PANEL "S"
RECP: ELEC/IT (2417/2416)	R	540	53	20/1			1080		54	540	S	
MAIN ELEVATOR POWER	M	9607	55	100/3	10326.8267				56	720	S	
	M	9607	57			10106.8267		20/1	58	500	R	RECP: TV POWER (2401)
	M	9607	59				9786.82667	20/1	60	180	R	RECP: COPY 2436 COUNTER
DCU-4	C	728	61	20A/2P	1088			20/1	62	360	R	RECP: COPY 2436 COUNTER
	C	728	63			768		20/1	64	40	ON	SMOKE DAMPERS
DCU-5	C	728	65	20A/2P			808	20/1	66	80	ON	SMOKE DAMPERS
	C	728	67		728			20/1	68			
SPARE			69	20/1	0			20/1	70			SPARE
SPARE			71	20/1	0			20/1	72			SPARE
TOTAL					23142	21423	20899					TOTAL

Type of Load	VA LOAD PER PHASE			Calculations		
	A	B	C	Total VA	MULTIPLIER	VA LOAD
Other Loads	-	-	-	-	1.25	-
Other Load Non Cont	-	40	80	120	1	120
Receptacles	8,940	9,100	8100	26,140	1	10,000
Receptacles > 10,000	-	-	-	0.5	8,070	-
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	3,139	1,948	2384	7,471	1.25	9,339
Heating Only	-	-	-	-	1	-
Cooling Only	1,456	728	728	2,912	1	2,912
Motors	9,607	9,607	9,607	28,820	1	28,820
Total Load (VA)	23,142	21,423	20,899			
Balance	35%	33%	32%			
Largest Motor				0.25		
Total Load (VA)				65,464		59,261
Current (Amps)				182		164

PANEL EA												
208Y/120V, 3PH, 4W, 60HZ, 150A MAIN BREAKER, 22kAIC							MOUNTING: SURFACE					
Load Description	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	TYPE OF LOAD	Load Description
					A	B	C					
RECP: MEETING (1007)	R	700	1	20/1	1547			20/1	2	847	L	LIGHTS: RESTROOMS/CORR/MEETING
RECP: LOBBY (1000)	R	1080	3	20/1		1966		20/1	4	886	L	LIGHTS: MAIN BREAK ROOM/COPY
RECP: RECEPTION (1004)	R	540	5	20/1			1254	20/1	6	714	L	LIGHTS: TRAINING ROOM
RECP: MAIL/COPY/SUPPLY (1005)	R	540	7	20/1				20/1	8	714	L	LIGHTS: TRAINING ROOM
RECP: MAIL/COPY/SUPPLY (1005)	R	1260	9	20/1		1676		20/1	10	416	L	LIGHTS: TRAINING ROOM
COPIER/PRINTER (1005)	R	360	11	20/1			936	20/1	12	576	L	LIGHTS: MEETING/LOBBY/PORCH
RECP: BREAK ROOM (1014)	R	900	13	20/1	1353			20/1	14	453	L	LIGHTS: CANOPY
RECP: BREAK ROOM (1014)	R	360	15	20/1		720		20/1	16	360	R	RECP: LACTATION (1013)
REFRIGERATOR	ON	500	17	20/1			1220	20/1	18	720	R	RECP: TRAINING ROOM (1015)
REFRIGERATOR	ON	500	19	20/1	1220			20/1	20	720	R	RECP: TRAINING ROOM (1015)
MICROWAVE	ON	1000	21	20/1		1720		20/1	22	720	R	RECP: TRAINING ROOM (1015)
WATER FOUNTAIN	ON	180	23	20/1			900	20/1	24	720	R	RECP: TRAINING ROOM (1015)
RECP: RESTROOMS (1011/1012)	R	720	25	20/1	1440			20/1	26	720	R	RECP: TRAINING ROOM (1015)
LIGHTS AND RECP: ELEVATOR	L	202	27	20/1		922		20/1	28	720	R	RECP: TRAINING ROOM (1015)
ELEVATOR SUMP PUMP	M	1176	29	20/1			1896	20/1	30	720	R	RECP: TRAINING ROOM (1015)
GENERATOR BATTERY CHARGER	R	180	31	20/1	540			20/1	32	360	R	RECP: TRAINING ROOM (1015)
BLOCK HEATER	H	1200	33	20/1		1560		20/1	34	360	R	RECP: TRAINING ROOM (1015)
GENERATOR RECP	R	180	35	20/1			540	20/1	36	360	R	RECP: TRAINING ROOM (1015)
VENDING MACHINE (1014)	R	1000	37	20/1	1360			20/1	38	360	R	RECP: TRAINING ROOM (1015)
VENDING MACHINE (1014)	R	1000	39	20/1		1360		20/1	40	360	R	RECP: TRAINING ROOM (1015)
UC MICROWAVE (1014)	R	1000	41	20/1			1360	20/1	42	360	R	RECP: TRAINING ROOM (1015)
DISHWASHER (

PANEL A4

MOUNTING: SURFACE

208Y/120V, 3PH, 4W, 60HZ, 150A MAIN BREAKER, 22KAIC				L1	L2	L3					
Load Description	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	Load Description
RECP: MAIN BOARDROOM (2101)	R	720	1	20/1	A	B	C				
RECP: MAIN BOARDROOM TV (2101)	R	180	3	20/1	1386						
RECP: MAIN BOARDROOM (2101)	R	360	5	20/1		1245.4					
RECP: MAIN BOARDROOM (2101)	R	720	7	20/1			1201.6				
RECP: CORRIDOR	R	720	9	20/1	1550						
RECP: CORRIDOR	R	1260	11	20/1		1452.4					
RECP: TV (2265)	R	500	13	20/1	1040						
RECP: RESTROOMS/IAN (2104-2107)	R	540	15	20/1		1080					
WATER FOUNTAIN	M	528	17	20/1			1068				
RECP: OFFICE 2278	R	540	19	20/1		1080					
RECP: MEDIA (2267)	R	540	21	20/1			1440				
RECP: SYSTEMS DEV (2201)	R	540	23	20/1			1440				
RECP: SYSTEMS DEV (2202)	R	540	25	20/1	1080						
RECP: OPEN COLLAB (2203)	R	720	27	20/1		1260					
RECP: SECONDARY BREAK (2102)	R	720	29	20/1			1260				
REFRIGERATOR	ON	500	31	20/1	1040						
MICROWAVE	ON	1000	33	20/1		1360					
VENDING MACHINE	ON	1000	35	20/1			1360				
VENDING MACHINE	ON	1000	37	20/1	1540						
RECP: PROJECT CTRL (2207)	R	1080	39	20/1		1620					
RECP: PROJECT CTRL MGR (2208)	R	540	41	20/1			1080				
RECP: UNDERCOUNTER FRIDGE (2101)	R	1000	43	20/1	1540						
RECP: UNDERCOUNTER FRIDGE (2102)	R	1000	45	20/1		1540					
RECP: TV (2264)	R	180	47	20/1			720				
RECP: OFFICE 2279	R	540	49	20/1	1500						
COFFEE MAKER BREAK RM 2102	R	960	51	20/1		1960					
SPARE			53	20/1			0				
SPARE			55	20/1	0						
SPARE			57	20/1		0					
SPARE			59	20/1			0				
SPARE			61	20/1	0						
SPARE			63	20/1		0					
SPARE			65	20/1			0				
SPARE			67	20/1	0						
SPARE			69	20/1			0				
SPARE			71	20/1			0				
SPARE			73	20/1	0						
SPARE			75	20/1			0				
SPARE			77	20/1			0				
SPARE			79	20/1	0						
SPARE			81	20/1			0				
SPARE			83	20/1			0				
TOTAL LOAD (VA)					11556	12958	9930				

Type of Load	VA LOAD PER PHASE			Calculations		
	A	B	C	Total VA	MULTIPLIER	VA LOAD
Other Loads	-	-	-	-	1.25	-
Other Load Non Cont	1,500	1,000	1000	3,500	1	3,500
Receptacles	8,760	10,160	7560	26,480	1	10,000
Receptacles > 10,000	-	-	-	-	0.5	8,240
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	1,296	1,798	842	3,935	1.25	4,919
Heating Only	-	-	-	-	1	-
Cooling Only	-	-	-	-	1	-
Motors	-	-	528	528	1	528
Total Load (VA)	11,556	12,958	9,930			
Balance	34%	38%	29%			
Largest Motor				528	0.25	132
Total Load (VA)				34,443		27,319
Current (Amps)				96		76

Type of Load	VA LOAD PER PHASE			Calculations		
	A	B	C	Total VA	MULTIPLIER	VA LOAD
Other Loads	-	-	-	-	1.25	-
Other Load Non Cont	-	-	-	-	1	-
Receptacles	9,300	9,780	9060	28,140	1	10,000
Receptacles > 10,000	-	-	-	-	0.5	9,070
Kitchen	-	-	-	-	0.65	-
Existing Load	-	-	-	-	1.25	-
Lighting	2,000	2,000	2000	6,000	1.25	7,500
Heating Only	-	-	-	-	1	-
Cooling Only	-	-	-	-	1	-
Motors	-	-	-	-	1	-
Total Load (VA)	11,300	11,780	11,060			
Balance	33%	35%	32%			
Largest Motor					0.25	-
Total Load (VA)				34,140		26,570
Current (Amps)				95		74

PANEL B4

MOUNTING: SURFACE

208Y/120V, 3PH, 4W, 60HZ, 150A MAIN BREAKER, 22KAIC				L1	L2	L3					
Load Description	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	Load Description
RECP: PURCH MGR (2214)	R	540	1	20/1	A	B	C				
RECP: BUYER/AP (2215)	R	540	3	20/1	1540	1540					
RECP: PURCHASING FUTURE (2216)	R	540	5	20/1			1540				
RECP: EST FUTURE (2219)	R	540	7	20/1	1540						
RECP: EST FUTURE (2220)	R	540	9	20/1		1540					
RECP: EST (2222)	R	540	11	20/1			1540				
RECP: LAYOUT (2225)	R	360	13	20/1	900						
RECP: OPEN COLLAB (2226)	R	360	15	20/1		900					
RECP: EST (2230)	R	540	17	20/1			1080				
RECP: EST (2231)	R	540	19	20/1	1080						
RECP: EST (2232)	R	540	21	20/1		1080					
RECP: EST MGR (2234)	R	360	23	20/1			1080				
RECP: EST (2235)	R	540	25	20/1	1080						
RECP: EST (2236)	R	540	27	20/1		1080					
RECP: LARGE EST ROOM (2228)	R	720	29	20/1			1260				
RECP: LARGE EST ROOM (2228)	R	720	31	20/1	1260						
RECP: LARGE EST ROOM (2228)	R	720	33	20/1		1260					
RECP: LARGE EST ROOM TV (2228)	R	180	35	20/1			720				
PRINTER (2227)	R	1200	37	20/1	1560						
PRINTER (2227)	R	1200	39	20/1		2400					
PRINTER (2227)	R	1200	41	20/1			2400				
RECP: COPY/LAYOUT (2227/2244)	R	540	43	20/1	1260						
RECP: SMALL EST ROOM (2224)	R	720	45	20/1		1440					
RECP: SMALL EST ROOM (2224)	R	720	47	20/1			900				
RECP: EST STORAGE (2248)	R	540	49	20/1	1080						
RECP: EST STORAGE (2221)	R	540	51	20/1		540					
RECP: PURCHASING STORAGE (2218)	R	540	53	20/1			540				
SPARE			55	20/1	0						
SPARE			57	20/1		0					
SPARE			59	20/1			0				
SPARE			61	20/1	0						
SPARE			63	20/1			0				
SPARE			65	20/1			0				
SPARE			67	20/1	0						
SPARE			69	20/1			0				
SPARE			71	20/1			0				
SPARE			73	20/1	0						
SPARE			75	20/1			0				
SPARE			77	20/1			0				
SPARE			79	20/1	0						
SPARE			81	20/1			0				
SPARE			83	20/1			0				
TOTAL LOAD (VA)					11300	11780	11060				

PANEL M4

LOCATION: ELECTRICAL RM #1210 MOUNTING: SURFACE

480Y/277V, 3PH, 4W, 60HZ, 600A MAIN LUGS, 65KAIC				L1	L2	L3						
LOAD DESCRIPTION	TYPE OF LOAD	LOAD (VA)	CIRCUIT	OCPD	PHASE	PHASE	PHASE	OCPD	CIRCUIT	LOAD (VA)	TYPE OF LOAD	LOAD DESCRIPTION
RTU-6	C	10530	1	45A/3P	A	B	C					
	C	10530	3		21,126							PANEL A4 (THRU XFRMR T4A)
	C	10530	5			21,528						
	C	10530	7				19,920					
RTU-7	C	18844	9	70A/3P	28,764							PANEL B4 (THRU XFRMR T4B)
	C	18844	11			28,584						
	C	18844	13				27,685					
VAV-36	H	3600	15	20A/3P	6,300							VAV-43
	H	3600	17			6,300						
	H	3600	19				6,300					
VAV-37	H	1233	21	20A/3P	3,933							VAV-44
	H	1233	23			3,933						
	H	1233	25				3,933					
VAV-38	H	1800	27	15A/3P	4,500							VAV-45
	H	1800	29			4,500						
	H	1800	31				4,500					
VAV-39	H	2233	33	15A/3P	3,900							VAV-46
	H	2233	35			3,900						
	H	2233	37				3,900					
VAV-40	H	1900	39	15A/3P	3,567							VAV-47
	H	1900	41			3,567						
	H	1900	43				3,567					
VAV-41	H	2700	45	15A/3P	4,367							VAV-48
	H	2700	47			4,367						
	H	2700	49				4,367					
VAV-42	H	2700	51	15A/3P	5,471							WATER HEATER WH-4
	H	2700	53			5,471						
	H	2700	55				5,471					
SPARE			57	20A/1P	18,844							RTU-4
SPARE			59	20A/1P		18,844						
SPARE			61	20A/1P			18,844					
SPARE			63	20A/1P	0			20A/1P				SPARE
SPARE			65	20A/1P		0			20A/1P			SPARE
SPARE			67	20A/1P			0			20A/1P		SPARE
SPARE			69	20A/1P	0						20A/1P	SPARE
SPARE			71	20A/1P			0					SPARE
SPARE			73	20A/1P				0				SPARE
SPARE			75	20A/1P								