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221202

INTERNATIONAL ARCHITECTS ATELIER

I, MAJID AMIRAHMADI, MISSOURI REGISTERED ARCHITECT, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED ARCHITECTURAL DRAWINGS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.

MAJID AMIRAHMADI, AIA
INTERNATIONAL ARCHITECTS ATELIER

PROFESSIONAL DISCLAIMER | AA29

ARCHITECTURAL SYMBOLS | AA21

SPOT ELEVATION
PLAN NOTES
DOOR TAG
ROOM TAG
ROOM NAME
NORTH ARROW
DEMO NOTES
WINDOW TAG:
WINDOW NUMBER
WINDOW TYPE, RE. A710

REVISION TAG
WALL TAG
CALLOUT
INTERIOR ELEVATION MARKER:
SHEET NUMBER
DRAWING NUMBER
WALL SECTION MARKER:
DRAWING NUMBER
SHEET NUMBER
DETAIL SECTION MARKER:
DRAWING NUMBER
SHEET NUMBER

I, SHANE FLOYD, MISSOURI REGISTERED ENGINEER, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.

SHANE FLOYD, PE
CUSTOM ENGINEERING

PROFESSIONAL DISCLAIMER | V21

GENERAL NOTES | V13

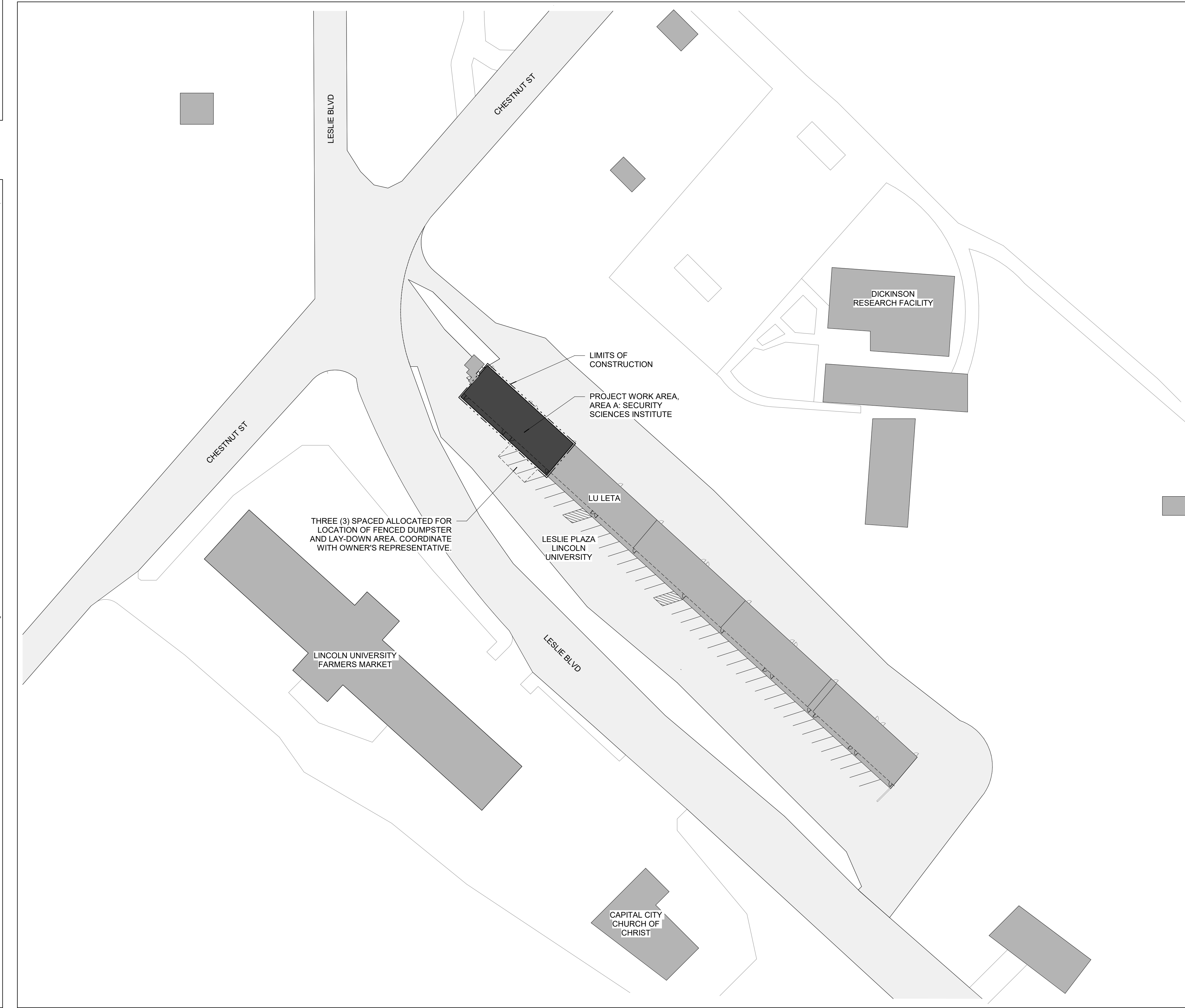
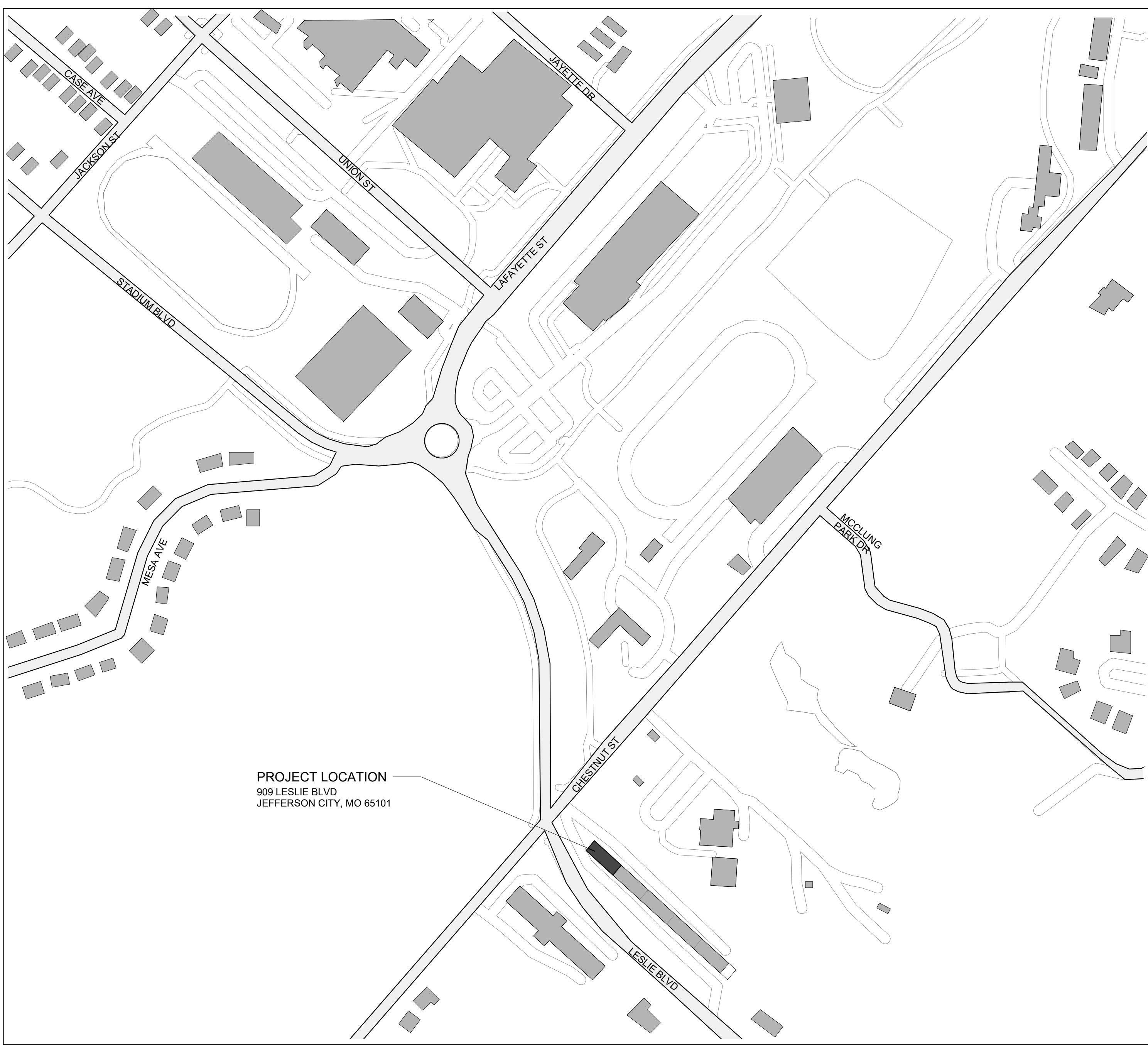
- ALL WORK SHALL COMPLY WITH FEDERALLY MANDATED ADA, ALL APPLICABLE CODES, AND STANDARDS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND DRAWINGS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE TO PROVIDE THE CONTRACTOR WITH APPROXIMATE SIZES AND ARE NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL USE EXTREME CARE AND TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ADJACENT FACILITIES. ANY DAMAGE DONE TO EXISTING FACILITIES DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL DIMENSIONS ARE NOMINAL AND ARE FINISH TO FINISH OR FACE TO FACE OF CONSTRUCTION UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PATCH OR REPAIR, PAINT OR RESTORE AND REFINISH (AS APPLIES) ALL ADJACENT SURFACES AFFECTED BY NEW CONSTRUCTION OR DEMOLITION.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS. COORDINATE DUMPSTER LOCATION AND ACCESS WITH THE OWNER AS REQUIRED.
- SHOULD ANY DOUBT OR QUESTION ARISE WITH RESPECT TO THE TRUE MEANING OF THE DRAWINGS OR SPECIFICATIONS, REFERENCE SHALL BE MADE TO THE ARCHITECT WHOSE DECISIONS THEREON SHALL BE FINAL AND CONCLUSIVE.
- CONTRACTOR SHALL NOT ENGAGE IN ANY ACTIVITY WHICH MAY ENDANGER THE PUBLIC.
- CONTRACTOR IS REQUIRED, PRIOR TO THE START OF CONSTRUCTION, TO SURVEY THE AREAS WHICH WOULD BE AFFECTED BY THE CONSTRUCTION FOR DOCUMENTATION OF EXISTING DAMAGES.
- CONTRACTOR IS ALLOWED TO STORE MATERIALS ONLY IN DESIGNATED LOCATIONS AS APPROVED BY THE OWNER REPRESENTATIVE.
- CONTRACTOR IS REQUIRED TO PROVIDE EQUIPMENT AND TOOLS REQUIRED OR NECESSARY FOR THE OWNER, ARCHITECT, AND ENGINEER TO REVIEW THE CONSTRUCTION IN PROGRESS AND DURING INSPECTIONS.
- CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTS DURING THE CONSTRUCTION OF THE PROJECT AS REQUIRED FOR THE SAFETY AND SECURITY OF THE PUBLIC FOR ALL AREAS AFFECTED BY CONSTRUCTION AS REQUIRED TO ACHIEVE MIN 1/2 FOOT CANDLE LIGHT LEVEL.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND PROTECT THE REQUIRED FIRE EXITS AND ROUTE TO THOSE EXITS AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE TO PATCH AND REPAIR WALLS TO ACCOMMODATE ANY IMPROVEMENTS CALLED FOR IN THIS SCOPE OF WORK.

DEFERRED SUBMITTALS | S29

DEFERRED SUBMITTAL ITEMS:
THERE ARE NO DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.

SPECIAL INSPECTIONS:
THERE ARE NO SPECIAL INSPECTIONS FOR THIS PROJECT.

NOT USED | S21



GENERAL DEMOLITION NOTES | V5

- PRIOR TO COMMENCING DEMOLITION WORK, THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND MAKE PROVISION THAT NO INTERRUPTION OF SERVICES OCCUR TO OTHER BUILDING TENANTS. COORDINATE ANY SERVICE INTERRUPTIONS WITH OWNER.
- ALL MATERIALS NOT REQUIRED TO BE REMOVED FOR THE EXECUTION OF THE PROJECT SHALL BE LEFT IN PLACE AND PROTECTED FROM DAMAGE DURING DEMOLITION. ANY ITEMS DAMAGED DURING DEMOLITION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITIONS OF ITEMS TO BE DEMOLISHED.
- CUT AND REMOVE/REPLACE ALL PORTIONS OF EXISTING CONSTRUCTION AS REQUIRED TO ALLOW ACCESS TO ITEMS NOTED FOR DEMOLITION AND FOR PROPER INSTALLATION OF NEW CONSTRUCTION.
- AT ANY TIME DURING DEMOLITION, IF ANY CONTRACTOR DISCOVERS HAZARDOUS MATERIALS, STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.
- LEAVE ALL MAJOR STRUCTURAL COLUMNS AND BEAMS UNDISTURBED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE REMAINING. IF ANY SUCH CONDITION EXISTS, OR RESULTS DURING THE PROCESS OF DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND ARCHITECT IMMEDIATELY.
- ALL DASHED LINES ON DRAWINGS INDICATE ITEMS TO BE REMOVED, U.N.O.
- ALL DEMOLITION MUST REMAIN INSIDE CONSTRUCTION LIMITS, U.N.O.
- NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN/ADJOINING CONSTRUCTION.
- CONTRACTOR SHALL COMPLETELY REMOVE ALL DEMOLISHED MATERIALS FROM SITE. ALL DEMOLISHED MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS THEY ARE TO BE REUSED, OR AS OTHERWISE NOTED OR INSTRUCTED, AND TO BE DISPOSED OF LEGALLY. REMOVE DEBRIS, RUBBISH, AND OTHER MATERIALS DAILY FROM CONSTRUCTION SITE.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK REQUIRED FOR ONE TRADE WITH OTHER TRADES THAT WILL BE AFFECTED BY THAT WORK.
- CONTRACTOR SHALL COORDINATE ANY LOUD DEMOLITION WORK OR ANY WORK THAT COULD DISRUPT DAILY ACTIVITY OF THE BUILDING OCCUPANTS WITH OWNER REPRESENTATIVE 72 HRS IN ADVANCE OF THE WORK.

SHEET INDEX - GENERAL

G000 COVER SHEET
G001 GENERAL INFORMATION
G002 LIFE SAFETY PLAN / CODE ANALYSIS

SHEET INDEX - ARCHITECTURAL

D100 AREA A DEMOLITION PLANS
D400 AREA A CEILING DEMO PLANS
D800 DEMOLITION PHOTOGRAPHS
A001 WALL TYPES
A100 AREA A FLOOR PLANS
A220 BUILDING SECTIONS
A400 AREA A CEILING PLAN
A600 INT. ELEVATIONS, FINISHES, & DETAILS
A700 DOOR SCHEDULE, TYPES, & DETAILS
A710 WINDOW SCHEDULE, TYPES, & DETAILS

SHEET INDEX - MECHANICAL

MEP101 COMBINED ROOF PLAN
M000 MECHANICAL NOTES, SPECIFICATIONS, AND LEGENDS
M001 MECHANICAL HVAC PLAN BASEMENT SUITE A
M101 MECHANICAL HVAC PLAN FIRST FLOOR SUITE A
M500 MECHANICAL DETAILS
M600 MECHANICAL SCHEDULES

SHEET INDEX - ELECTRICAL

E000 ELECTRICAL NOTES, SPECIFICATIONS, AND LEGENDS
EP101 POWER PLAN FIRST FLOOR SUITE A
EL101 LIGHTING PLAN FIRST FLOOR SUITE A
E500 ELECTRICAL DETAILS AND SCHEDULES

SHEET INDEX - PLUMBING

P000 PLUMBING NOTES, SPECIFICATIONS, AND LEGENDS
P001 PLUMBING PLAN BASEMENT SUITE A
P101 PLUMBING PLAN FIRST FLOOR SUITE A

GENERAL DEMOLITION NOTES | V5 **SHEET INDEX | V1**

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SECURITY SCIENCES INSTITUTE RENOVATION

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DATE: 08/02/2023
PROJ. NO.: 221202

DESIGNED BY: AO, JL
DRAWN BY: AO, JL
CHECKED BY: JL, MA
APPROVED BY: MA

SEAL:

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NO.	REVISION SUBMISSION	DATE
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GENERAL INFORMATION

G001

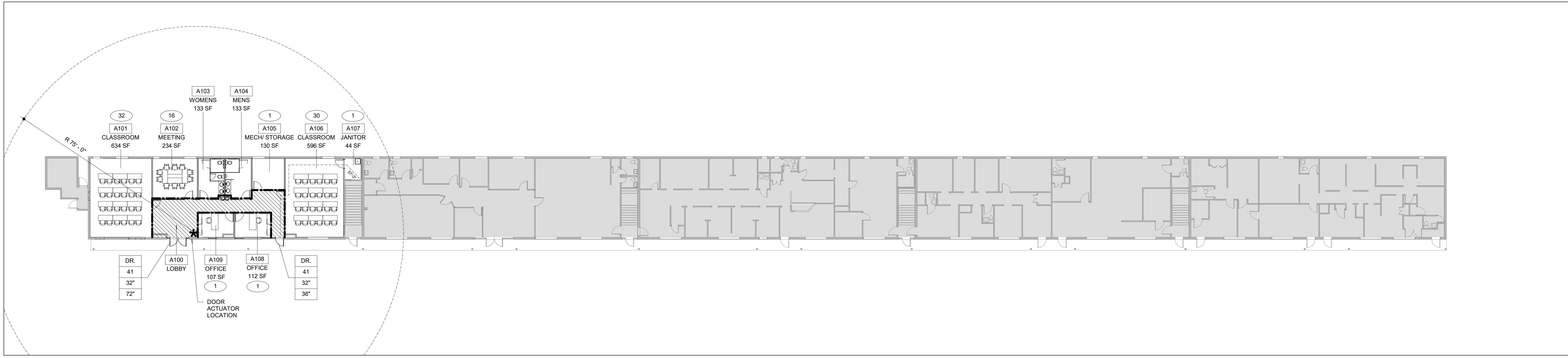
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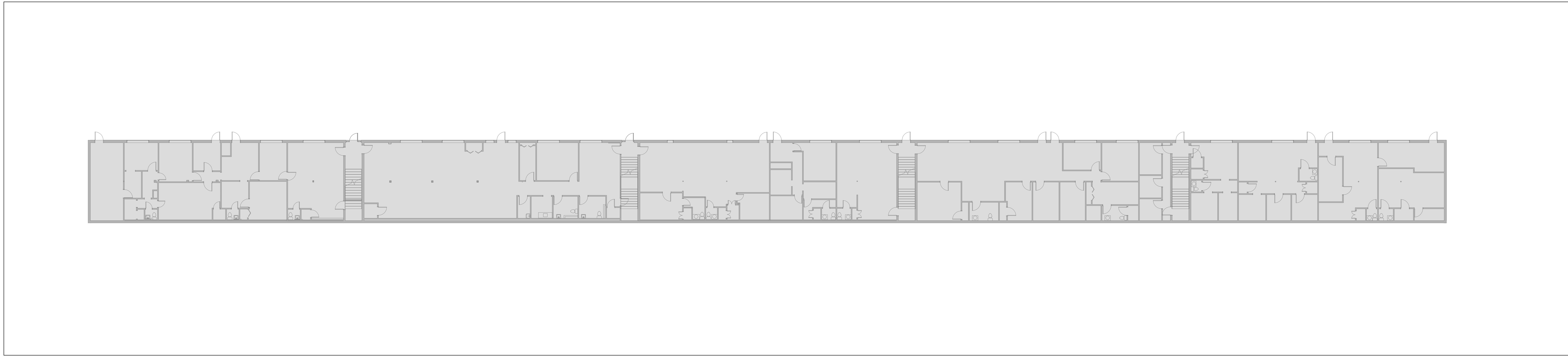
<p>Applicable Codes:</p> <ul style="list-style-type: none"> 2018 International Building Code (IBC) 2018 International Existing Building Code (IEBC), Level 2 Alteration 2018 International Plumbing Code (IPC) 2018 International Mechanical Code (IMC) 2018 International Fire Code 2019 International Fuel Gas Code 2017 National Electrical Code (NFPA 70 NEC) 2018 International Energy Conservation Code 2018 National Fire Alarm Code (NFPA 72) 2010 ADA Standards of Accessible Design <p>Occupancy Classification: B: Offices, Classrooms below 50 occupants</p> <p>Risk Category: II</p> <p>Mixed Use Group Approach: Non-Separated (IBC 508.2 & 508.3)</p> <p>Type of Construction: Type VB</p> <p>Building Height (Stories): 1 Story Above Grade Plane, 1 Story Below Grade Plane</p> <p>Allowable Building Height (Stories): 2 Stories Above Grade (IBC Table 504.4)</p> <p>Building Height: 17'-8" Above Grade Plane</p> <p>Allowable Building Height: 40'-0" Above Grade Plane</p> <p>Building Area: Basement: Approx. 14,755 gross square feet First Floor: Approx. 13,677 gross square feet</p> <p>Allowable Building Area: 15,750 gross square feet (IBC Table 506.2 and IBC 506.3.3) Frontage Increase Factor = $(1.045/1.045 - 0.25)/30/30 = 0.75$ $9,000 \times 1.75 = 15,750$ gross square feet</p> <p>Work Area: Basement: 0 / 14,755 sq ft Level Area = 0% First Floor: 2,644 sq ft Work Area / 13,677 sq ft Level Area = 21% Total: 2,644 sq ft Work Area / 28,432 sq ft Level Area = 10% Work to Building Area</p>	<p>Passive Fire Resistive Requirements:</p> <ul style="list-style-type: none"> - Exterior Bearing Walls - Interior Bearing Walls - Exterior Non-Bearing Walls - Structural Frame - Floors - Roof - Exit Access Stair Enclosures - Corridor Walls - Horizontal Penetrations Through Nonfire-rated Assemblies <p>Interior Finishes (IBC Table 803.13):</p> <p>Active Fire Protection:</p> <ul style="list-style-type: none"> - Automatic Sprinkler System - Fire Extinguishers - Fire Alarm <p>Egress:</p> <ul style="list-style-type: none"> - Doors - Exit Width - Corridors - Exit Width - Common Path of Egress Travel (IBC Table 1006.2.1) - Exit Access Travel Distance (IBC Table 1017.2) - Dead End Corridors - Number of Exits Required from Spaces <p>Emergency Power:</p> <ul style="list-style-type: none"> - Exits Signs (IBC 1013) - Emergency Lighting (IBC 1008.2) 	<p>Plumbing Fixtures:</p> <p>Occupancy B - 82 Occupants 41 Men / 41 Women</p> <table border="1"> <tr> <th>Required</th> <th>Water Closets / Urinals</th> <th>Lavatories</th> <th>Drinking Fountains</th> </tr> <tr> <td></td> <td>1.64 Men / 1.64 Women</td> <td>1.025 Men / 1.025 Women</td> <td>1</td> </tr> <tr> <td>Required Total:</td> <td>2 Men / 2 Women</td> <td>2 Men / 2 Women</td> <td>1</td> </tr> <tr> <td>Provided Total:</td> <td>2 Men / 2 Women</td> <td>2 Men / 2 Women</td> <td>2</td> </tr> </table> <p>Corridors: Class B Rooms and Enclosed Spaces: Class C</p> <p>Corridors: Class B Rooms and Enclosed Spaces: Class C</p> <p>Not Required (IBC 903) Required (IBC 906.1) Not Required in Existing Building, Group B Occupancy (IEBC 803.4)</p> <p>0.2 inch per occupant (IBC 1005.3.2) 32 inches minimum clear width (IBC 1010.1.1) 44 inches minimum (IBC 1020.2)</p> <p>B: 75 feet</p> <p>B: 200 feet</p> <p>35 feet or less than 2.5 times least width of dead-end corridor. (IBC 1020.4, Exception #3 and IEBC 804.7)</p> <p>2 exits required at each Level (IEBC 804.4)</p> <p>Required Required at means of egress (IBC 1008.2 and 1008.3)</p>	Required	Water Closets / Urinals	Lavatories	Drinking Fountains		1.64 Men / 1.64 Women	1.025 Men / 1.025 Women	1	Required Total:	2 Men / 2 Women	2 Men / 2 Women	1	Provided Total:	2 Men / 2 Women	2 Men / 2 Women	2	<p>OCCUPANTS PER ROOM</p> <p>DR = DOOR WIDTH OCCUPANCY REQUIRED EXIT WIDTH (INCHES) PROVIDED EXIT WIDTH (INCHES)</p> <p>INDICATES POINT OF EGRESS DISCHARGE</p> <p>INDICATES LOCATION OF SEM-RECESSED FIRE EXTINGUISHER CABINET</p> <p>NOT IN CONTRACT</p> <p>EGRESS TRAVEL PATH</p> <p>INDICATES 1-HOUR FIRE RESISTIVE WALL CONSTRUCTION</p> <p>INDICATES 1-HOUR FIRE RESISTIVE CEILING CONSTRUCTION</p>
Required	Water Closets / Urinals	Lavatories	Drinking Fountains																
	1.64 Men / 1.64 Women	1.025 Men / 1.025 Women	1																
Required Total:	2 Men / 2 Women	2 Men / 2 Women	1																
Provided Total:	2 Men / 2 Women	2 Men / 2 Women	2																

LIFE SAFETY / CODE ANALYSIS | V7

LIFE SAFETY LEGEND | V1



1ST FLOOR LIFE SAFETY PLAN | L1
SCALE: 1/16" = 1'-0"



BASEMENT LIFE SAFETY PLAN | B1
SCALE: 1/16" = 1'-0"



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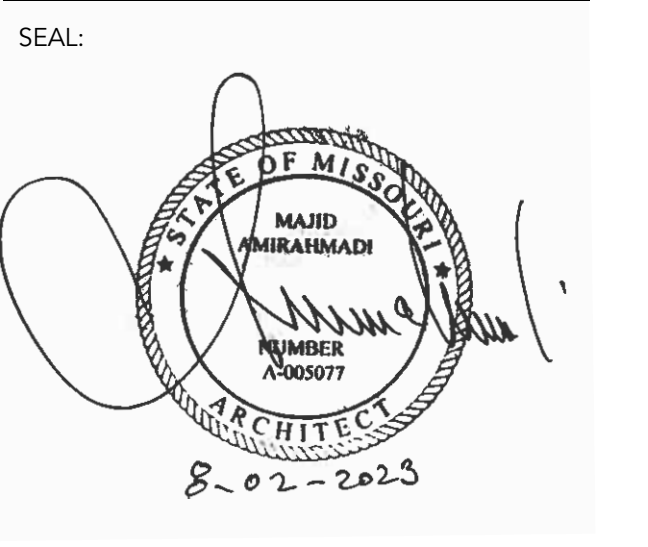


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JEFFERSON CITY, MO 65101

DATE:	08/02/2023
PROJ. NO.:	221202
DESIGNED BY:	AO, JL
DRAWN BY:	AO, JL
CHECKED BY:	JL, MA
APPROVED BY:	MA



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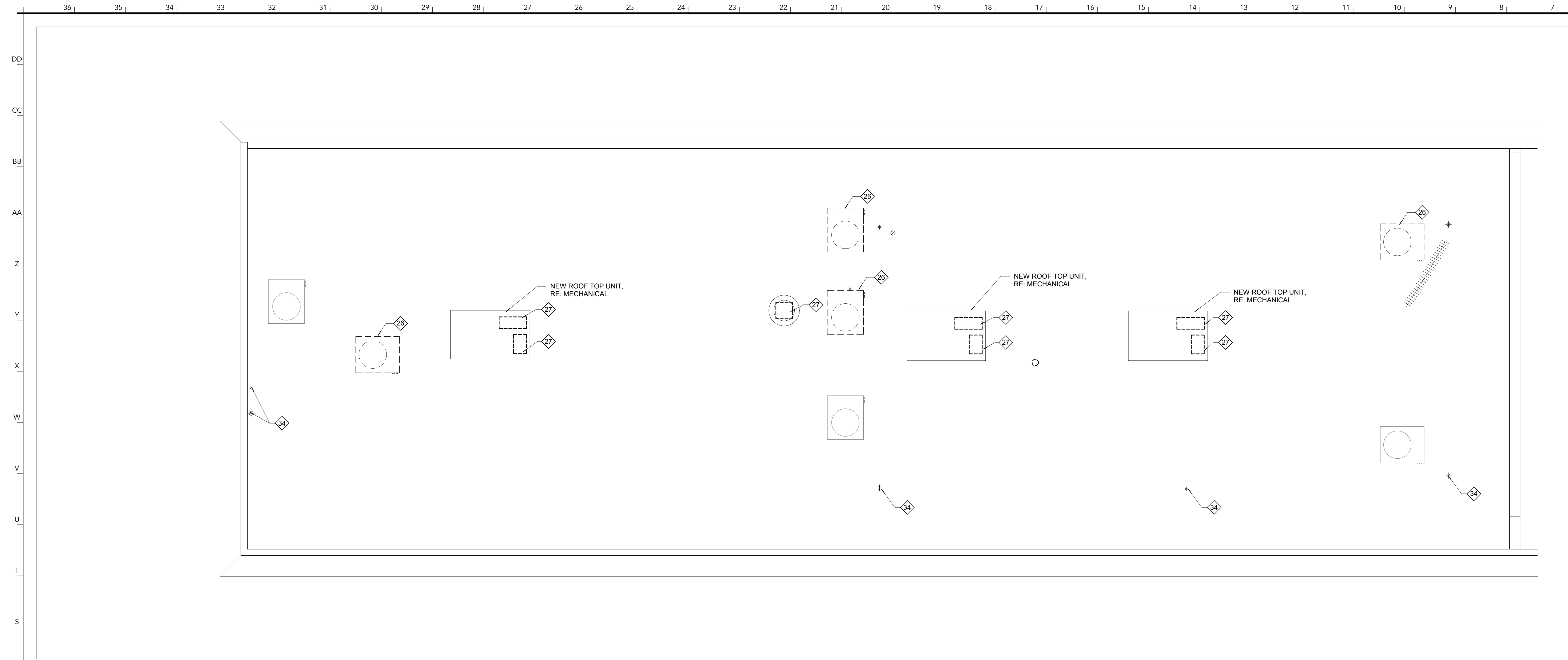
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LIFE SAFETY PLAN / CODE ANALYSIS

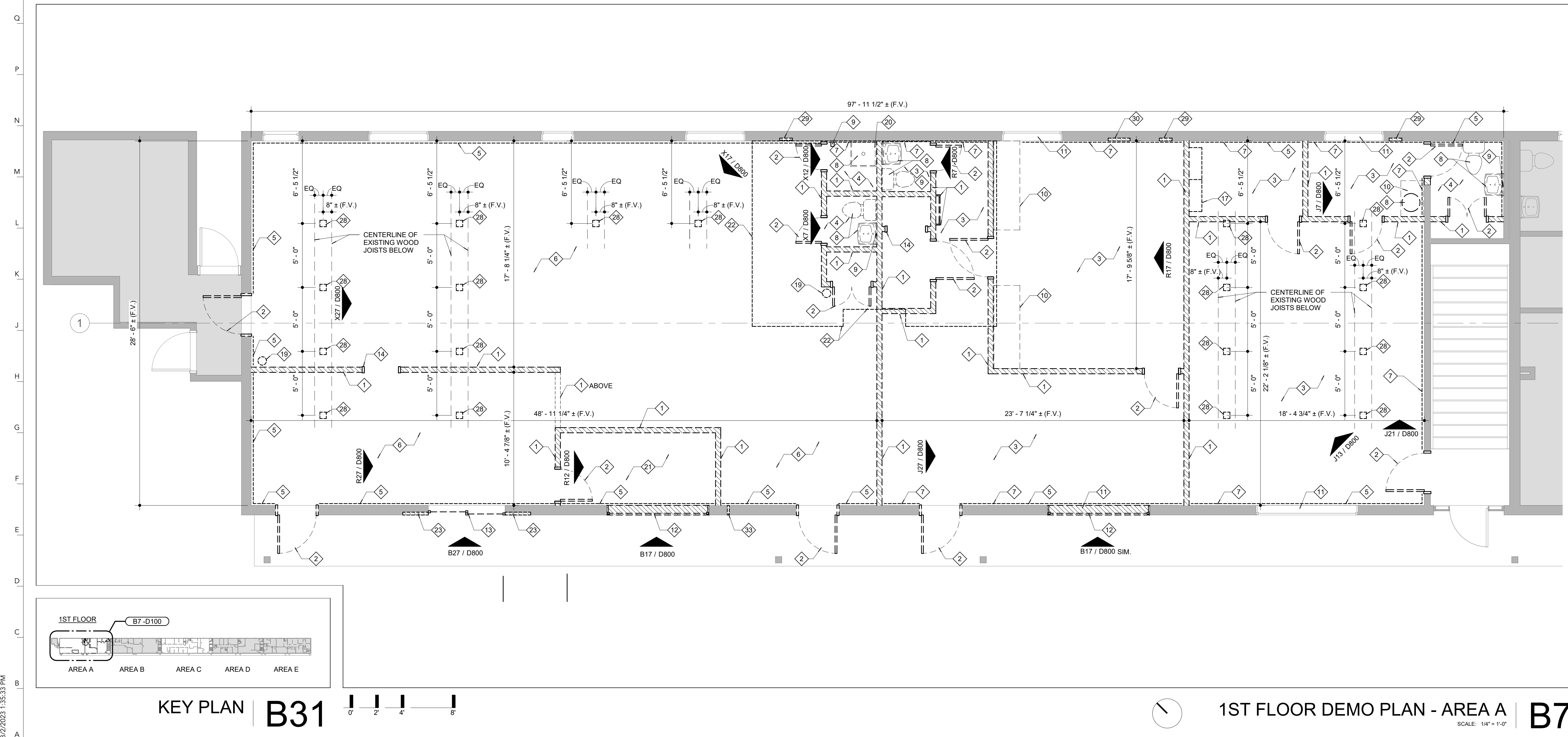
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ROOF DEMOLITION PLAN | R7
SCALE: 1/4" = 1'-0"



1ST FLOOR DEMO PLAN - AREA A | B7
SCALE: 1/4" = 1'-0"

- INDICATES AREAS OF BUILDING NOT IN CONTRACT
- INDICATES EXISTING BUILDING ELEMENTS TO REMAIN
- OR
- INDICATES EXISTING BUILDING ELEMENTS TO BE DEMOLISHED

EXISTING GYPSUM BOARD CEILINGS HAVE BEEN TESTED TO CONTAIN HAZARDOUS MATERIALS. CONTRACTOR'S HAZARDOUS ABATEMENT CONTRACTOR SHALL REMOVE ALL HAZARDOUS MATERIAL. NO OTHER DEMOLITION WORK SHALL OCCUR UNTIL AFTER ABATEMENT IS COMPLETE. RE: HAZARDOUS BUILDING MATERIALS SURVEY INCLUDED IN THE SPECIFICATIONS.

1. REFER TO G001 FOR GENERAL NOTES AND GENERAL DEMOLITION NOTES.
2. ALL LOOSE FURNISHINGS TO BE REMOVED BY OWNER PRIOR TO START OF CONSTRUCTION.
3. PREPARE ALL EXISTING WALLS WITHIN PROJECT SCOPE TO RECEIVE NEW FINISHES. REMOVE AND PATCH ALL NAIL HOLES AND DAMAGED AREAS IN GYPSUM. REMOVE ALL ADHESIVES AND OTHER MATERIALS THAT WILL AFFECT THE APPLICATION OF NEW WALL FINISHES.
4. THE ORIGINAL DRAWINGS STATE THAT THE EXISTING FLOORING IS 3/4" PLYWOOD SUBFLOORING WITH 1/4" PLYWOOD UNDERLAYMENT ON TOP. AFTER REMOVAL OF ALL EXISTING WALL CONSTRUCTION AND OTHER MATERIALS ATTACHED TO PLYWOOD FLOORING, PATCH PLYWOOD UNDERLAYMENT WITH NEW PLYWOOD AS REQUIRED TO CREATE A FLUSH FLOORING SURFACE TO RECEIVE NEW FLOORING FINISHES.
5. REMOVE EXISTING FINISHES AS REQUIRED TO REMOVE ANY CONCEALED ELECTRICAL, PLUMBING OR MECHANICAL SCOPE. RE: MEP DRAWINGS. PATCH SURFACES AND FINISH TO MATCH ADJACENT SURFACES.

DEMOLITION PLAN NOTES:

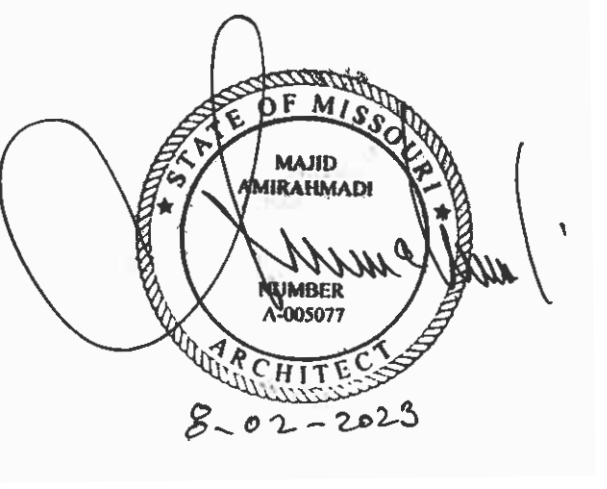
1. REMOVE EXISTING PARTITION, INCLUDING BASE, ELECTRICAL / FA DEVICES, RECEPTACLES, CONDUIT, ETC. TO EXTENTS SHOWN ON PLAN. PATCH EXISTING FLOOR UNDERLAYMENT, CEILING, AND WALL SURFACES TO REMAIN.
2. REMOVE EXISTING DOOR, FRAME, DOOR STOPS, AND ASSOCIATED FRAME ANCHORAGE MATERIALS.
3. REMOVE EXISTING CARPET FLOORING, MASTIC, FLOORING TRANSITIONS, ETC. TO PLYWOOD FLOORING. PREPARE EXISTING FLOOR TO RECEIVE NEW FINISH.
4. REMOVE EXISTING VINYL FLOOR TILE, BASE, AND ALL ASSOCIATED ADHESIVE, FLOORING TRANSITIONS, ETC. TO PLYWOOD FLOOR. PREPARE EXISTING FLOOR TO RECEIVE NEW FINISH.
5. REMOVE EXISTING FINISH WALL BOARD INCLUDING WALL BASE BACK TO EXISTING WOOD STUD FRAMING TO EXTENTS SHOWN ON PLAN. INSPECT CONDITIONS OF EXISTING CAVITY INSULATION FOR DAMAGE. REMOVE & REPLACE ALL INSULATION WITH NEW GLASS FIBER BATT INSULATION FULLY INSULATING EXISTING WALL CAVITY. REFER TO ELECTRICAL DRAWINGS FOR DEMOLITION SCOPE OF WORK FOR WALL RECEPTACLES AT THESE LOCATIONS.
6. EXISTING PLYWOOD FLOOR TO REMAIN. CLEAN AND PREPARE EXISTING SUBFLOOR SURFACE TO RECEIVE NEW UNDERLAYMENT AND FLOOR FINISH.
7. REMOVE EXISTING BASE AND ALL ASSOCIATED ADHESIVES BACK TO EXISTING GYPSUM BOARD WALL SURFACE. PREPARE SURFACES TO RECEIVE NEW WALL BASE.
8. REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. PATCH REPAIR WALL AND FLOORS TO REMAIN. RE: PLUMBING DRAWINGS.
9. REMOVE EXISTING MIRROR OR BATHROOM ACCESSORIES AND ALL ASSOCIATED ADHESIVES, FASTENERS, ETC BACK TO FINISHED WALL. REPAIR EXISTING WALL FINISHES AND PATCH AS REQUIRED.
10. REMOVE EXISTING CASEWORK INCLUDING COUNTERTOP, BASE CABINETS, BRACKET SUPPORTS, ETC.
11. REMOVE EXISTING WINDOW SHADES.
12. REMOVE EXISTING WINDOW AND FRAME. REMOVE EXISTING EXTERIOR BRICK WALL AND FRAMING ASSEMBLY BELOW WINDOW TO FLOOR. PREPARE OPENING TO RECEIVE NEW STOREFRONT SYSTEM AND DOOR. SALVAGE BRICKS FOR REINSTALLATION.
13. REMOVE EXISTING SLIDING GLASS DOOR AND FRAME. PREPARE OPENING FOR WALL INFILL.
14. REMOVE EXISTING DOOR FRAME AND ASSOCIATED FRAME ANCHORAGE MATERIALS.
15. REMOVE EXISTING LIGHT FIXTURE(S) AND ASSOCIATED SUPPORTS. RE: ELECTRICAL.
16. **EXISTING CEILING TEXTURE CONTAINS HAZARDOUS MATERIALS.** EXISTING GYPSUM BOARD CEILINGS SHALL BE REMOVED BY CONTRACTOR'S HAZARDOUS ABATEMENT CONTRACTOR. REMOVE EXISTING ABOVE CEILING BLOW-IN ROOF INSULATION, AND ASSOCIATED FRAMING/SUSPENSION SYSTEM BACK TO EXISTING WOOD TRUSSES. PREPARE TRUSSES TO RECEIVE NEW CEILING ASSEMBLY.
17. REMOVE EXISTING WALL HUNG CASEWORK AND ALL ASSOCIATED ADHESIVES, FASTENERS, ETC.
18. REMOVE EXISTING CEILING-MOUNTED CURTAIN AND TRACK.
19. REMOVE EXISTING FIRE EXTINGUISHER. IF EXTINGUISHER HAS NOT EXPIRED, RETURN FIRE EXTINGUISHER TO OWNER.
20. REMOVE EXISTING FRP WALL BOARD ABOVE MOP SINK AND ALL ASSOCIATED TRIMS. PATCH EXISTING WALL FINISHES TO REMAIN TO MATCH ADJACENT CONSTRUCTION.
21. REMOVE EXISTING UNDERLAYMENT PANELS DOWN TO EXISTING PLYWOOD FLOORING. CLEAN AND PREPARE PLYWOOD TO RECEIVE NEW UNDERLAYMENT AND FINISHES.
22. REMOVE EXISTING 1/4" PLYWOOD UNDERLAYMENT PANELS AT FLOORING AREAS OF NEW RESTROOMS DOWN TO EXISTING 3/4" PLYWOOD SUBFLOORING. PREPARE SUBFLOORING TO RECEIVE NEW CERAMIC TILE FLOORING UNDERLAYMENT. REFER TO NEW FLOOR PLANS FOR EXTENTS OF NEW RESTROOMS.
23. REMOVE EXISTING EXTERIOR WOOD SIDINGS WITHIN BRICK MASONRY OPENING BACK TO EXISTING WOOD STUDS. PREPARE ROUGH OPENING TO RECEIVE NEW EXTERIOR WALL CONSTRUCTION.
24. REMOVE CEILING DIFFUSERS/GRILLES. RE: MECHANICAL.
25. REMOVE EXIT SIGN. RE: ELECTRICAL.
26. REMOVE EXISTING ROOFTOP EQUIPMENT. RE: MECHANICAL.
27. CREATE NEW ROOF OPENING FOR NEW ROOFTOP EQUIPMENT. RE: MECHANICAL. COORDINATE WITH NEW MECHANICAL UNIT REQUIREMENTS AND EXISTING ROOF TRUSS LOCATIONS FOR FINAL OPENING LOCATIONS TO NOT BE IN CONFLICT WITH TRUSSES.
28. CREATE NEW FLOOR OPENING FOR NEW FLOOR OUTLETS, RE: ELECTRICAL. CENTER FLOOR OUTLET LOCATIONS BETWEEN EXISTING WOOD JOISTS BELOW.
29. REMOVE EXISTING ELECTRICAL PANEL. RE: ELECTRICAL. REMOVE EXISTING GYPSUM WALL BOARD AS REQUIRED TO ACCESS AND REMOVE ALL ELECTRICAL COMPONENTS REQUIRED TO BE REMOVED. PATCH WALLS WITH NEW GYPSUM BOARD.
30. REMOVE EXISTING GYPSUM WALL BOARD TO INSTALL NEW ELECTRICAL PANEL AND ASSOCIATED ELECTRICAL COMPONENTS. RE: ELECTRICAL. PATCH WALL WITH NEW GYPSUM BOARD AFTER INSTALLATION OF ELECTRICAL SCOPE.
31. EXISTING CEILING TILES AND GRID TO REMAIN. REMOVE, SALVAGE, AND REPLACE TILES & INSULATION AS REQUIRED FOR NEW PLUMBING CONSTRUCTION. CEILING TILES & INSULATION TO BE REINSTALLED AT SAME LOCATION ONCE PLUMBING WORK IS COMPLETE. RE: PLUMBING.
32. REMOVE EXISTING GYPSUM BOARD CEILING FOR PLUMBING CONSTRUCTION ACCESS. RE: PLUMBING. ONCE MEP WORK IS COMPLETE, INSTALL NEW GYPSUM BOARD CEILING AND PAINT.
33. NEATLY COREDRILL EXISTING MASONRY VENEER AS REQUIRED FOR NEW CONDUIT AND WIRING FOR NEW ADA DOOR HARDWARE. RE: ELECTRICAL.
34. CUT ABANDONED EXISTING VENT SERVING FIRST FLOOR. RE: MECHANICAL. RE: A220 FOR INSTALLING CAP TO VENT.



SECURITY SCIENCES INSTITUTE RENOVATION

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909 LESLIE BLVD
JEFFERSON CITY, MO 65101

DATE:	08/02/2023
PROJ. NO.:	221202
DESIGNED BY:	AO, JL
DRAWN BY:	AO, JL
CHECKED BY:	JL, MA
APPROVED BY:	MA



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AREA A DEMOLITION PLANS

D100

NOTES | B1



MEP CONSULTANT



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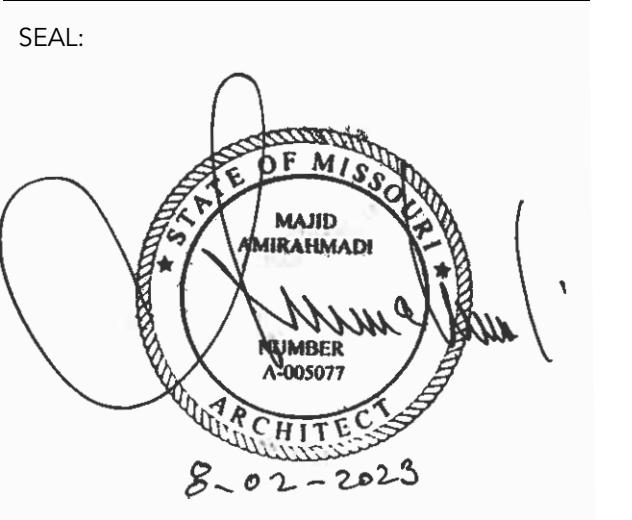


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AREA A CEILING
 DEMO PLANS

D400

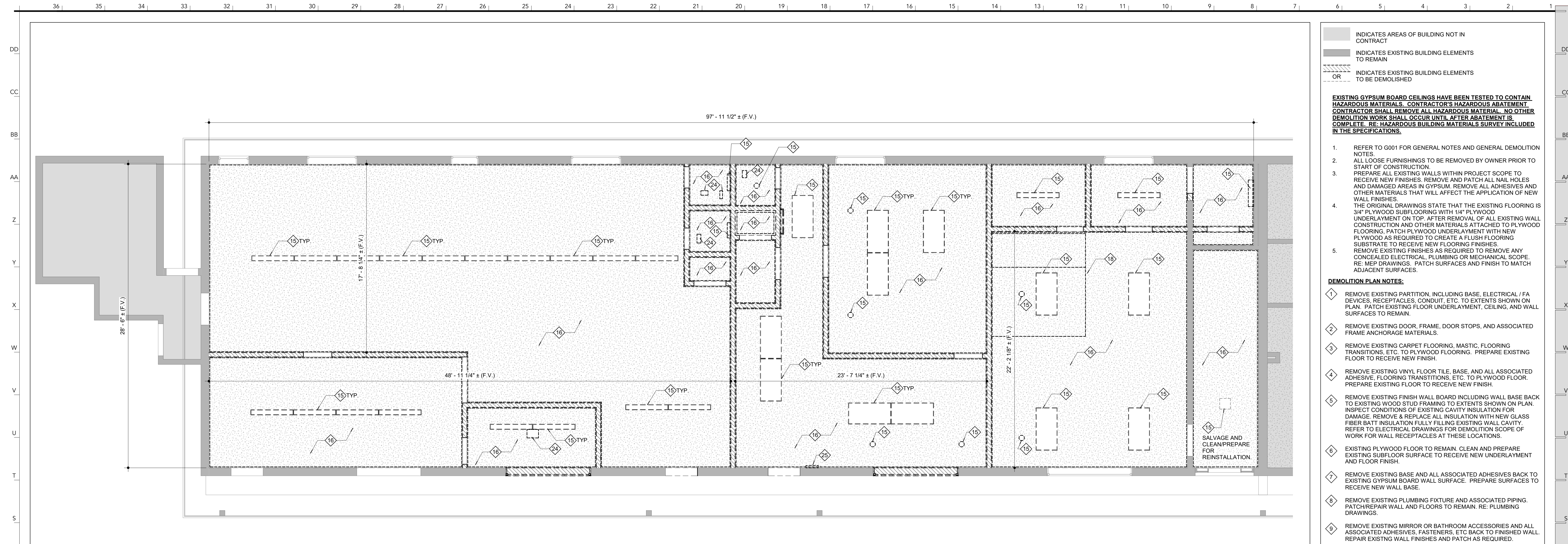
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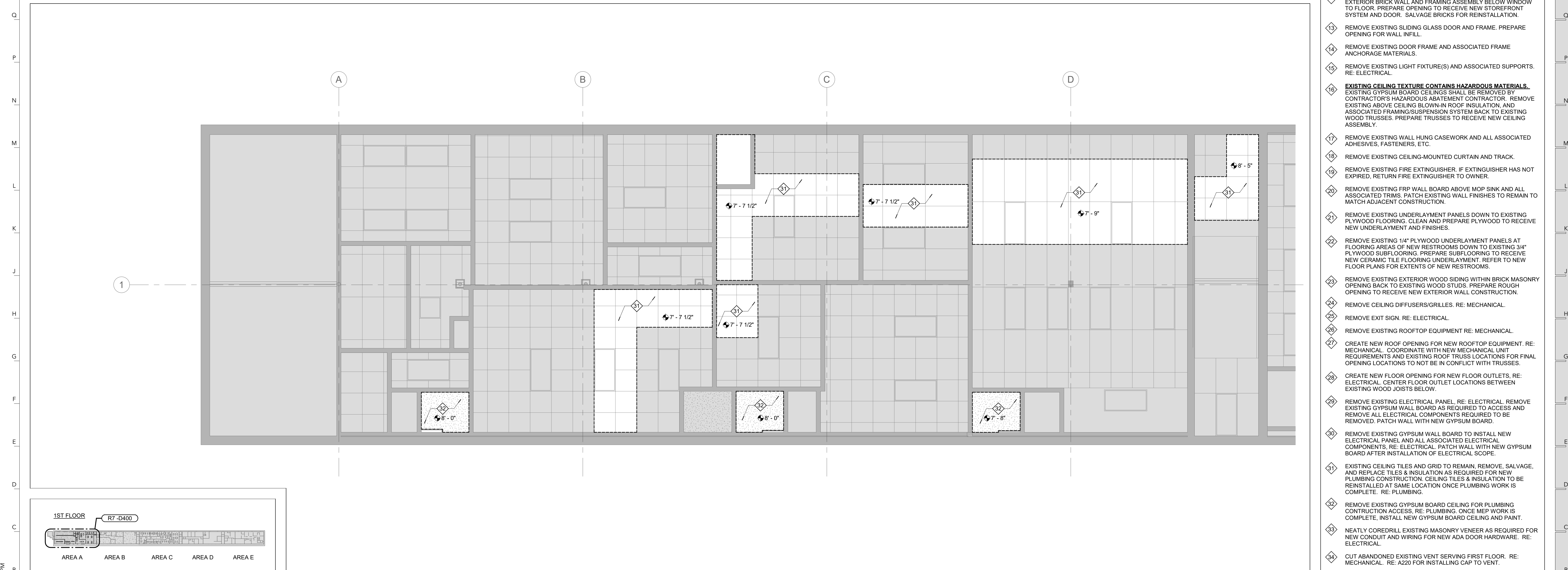
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DEMOLITION PLAN NOTES:

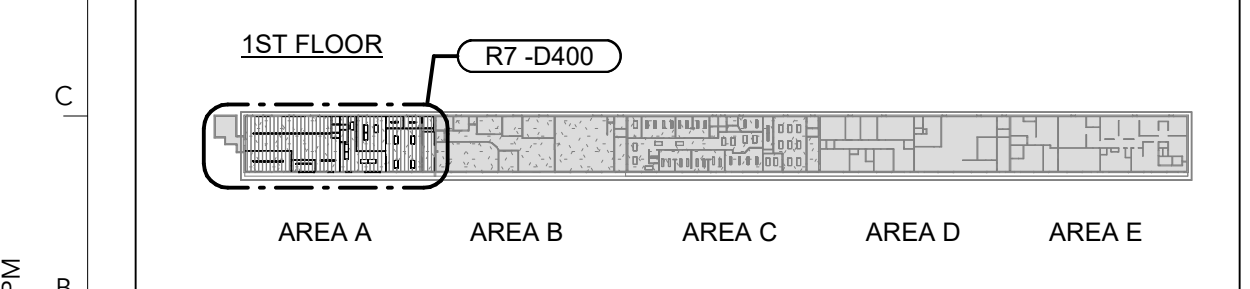
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1ST FLOOR CEILING DEMO PLAN - AREA A R7
 SCALE: 1/4" = 1'-0"



LOWER LEVEL CEILING DEMO PLAN - AREA A B7
 SCALE: 1/4" = 1'-0"



KEY PLAN B31

NOTES B1



OPEN SPACE DEMO PHOTO 1 | X27

OPEN SPACE DEMO PHOTO 2 | X17

JANITOR CLOSET | X12

RESTROOM 1 | X7

ENTRY LOBBY DEMO PHOTO | R27

BREAK ROOM DEMO PHOTO | R17

OFFICE | R12

RESTROOM 2 | R7

OPEN OFFICE 1 | J27

RESTING QUARTERS 1 | J21

RESTING QUARTERS 2 | J13

BREAK ROOM 2 | J7

EXTERIOR SLIDING DOOR DEMO PHOTO | B27

EXTERIOR WINDOW DEMO PHOTO | B17

NOTES | B1

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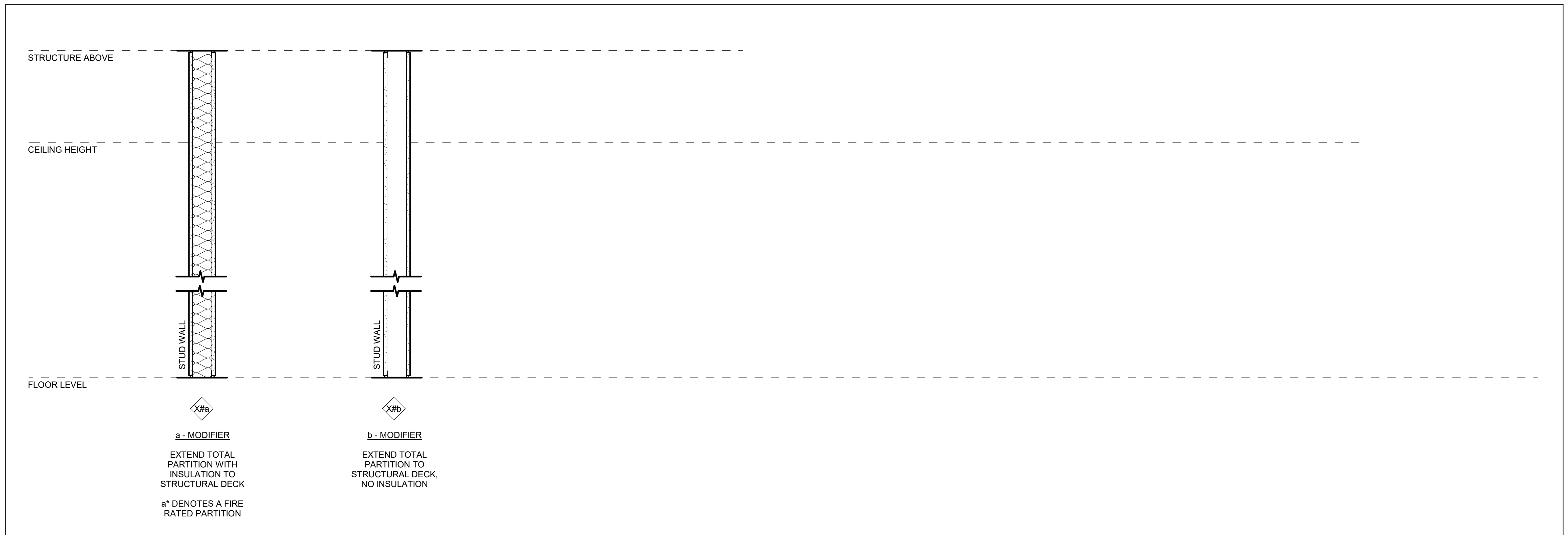
DEMOLITION PHOTOGRAPHS

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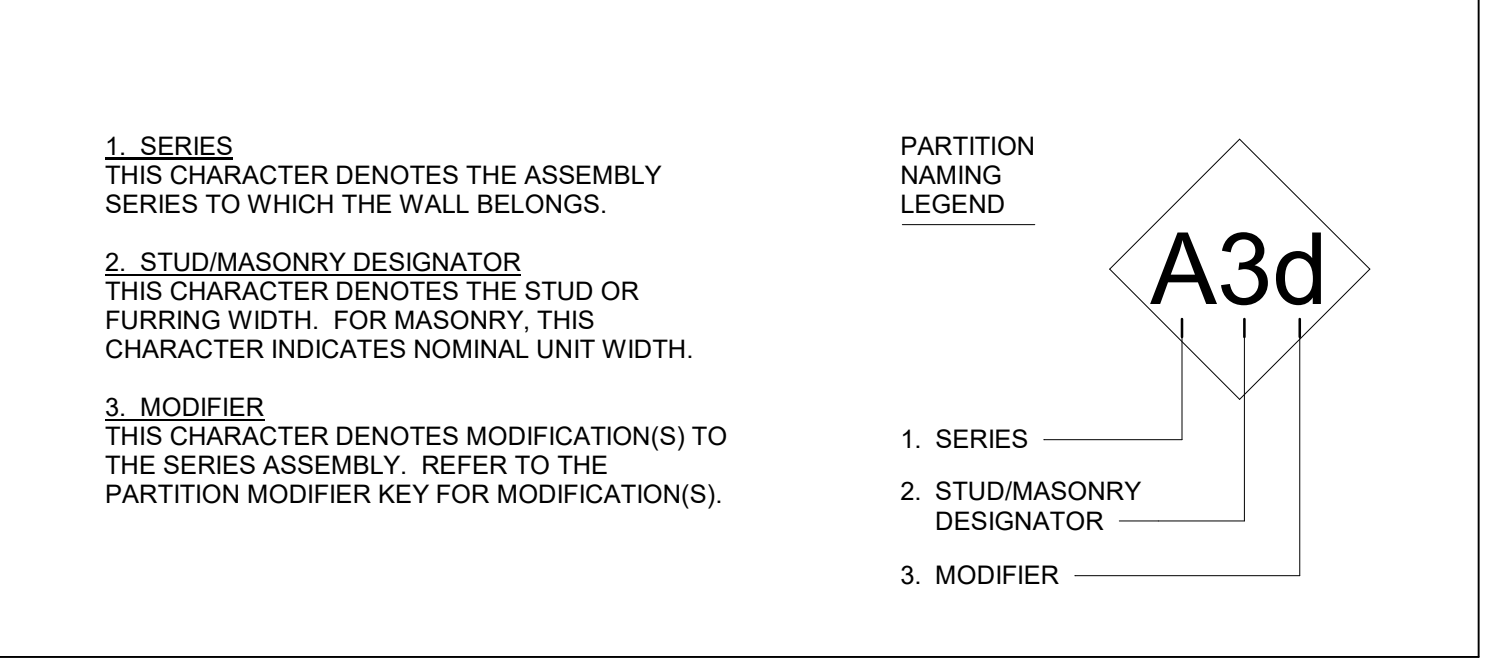
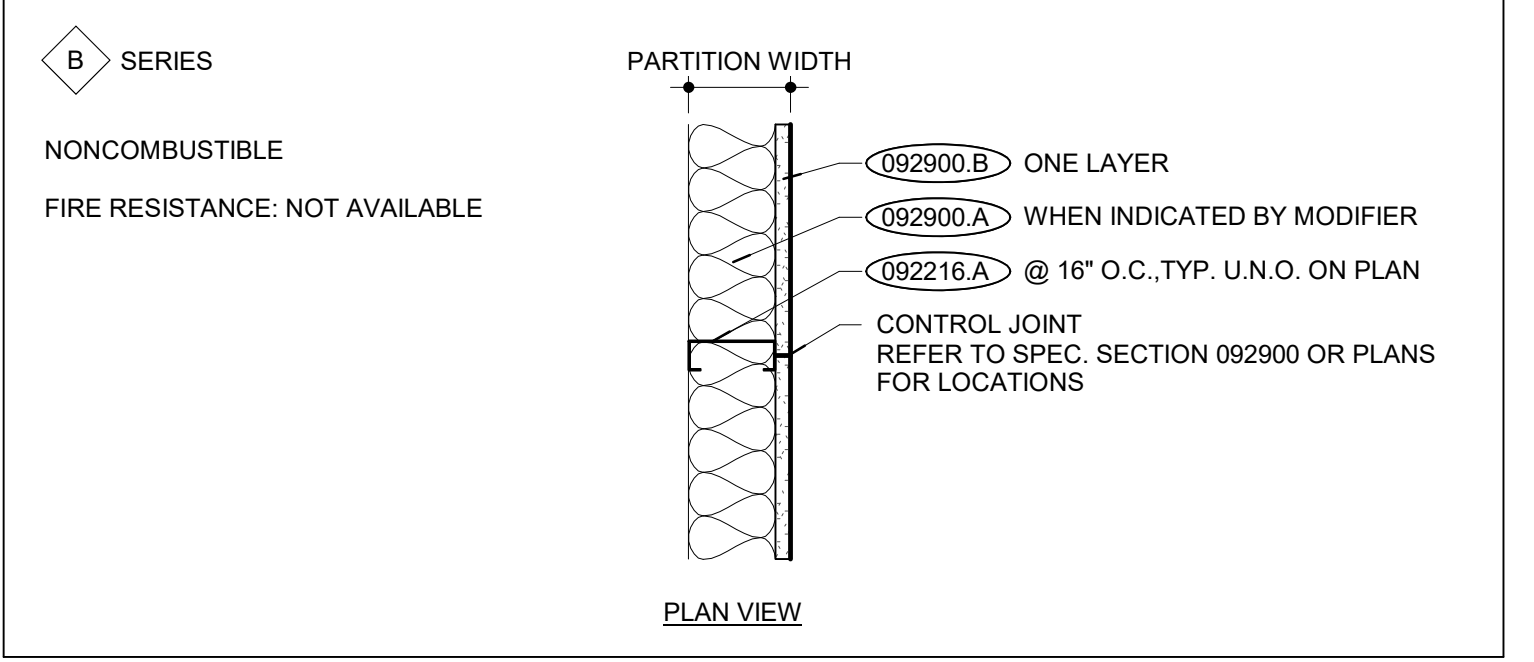
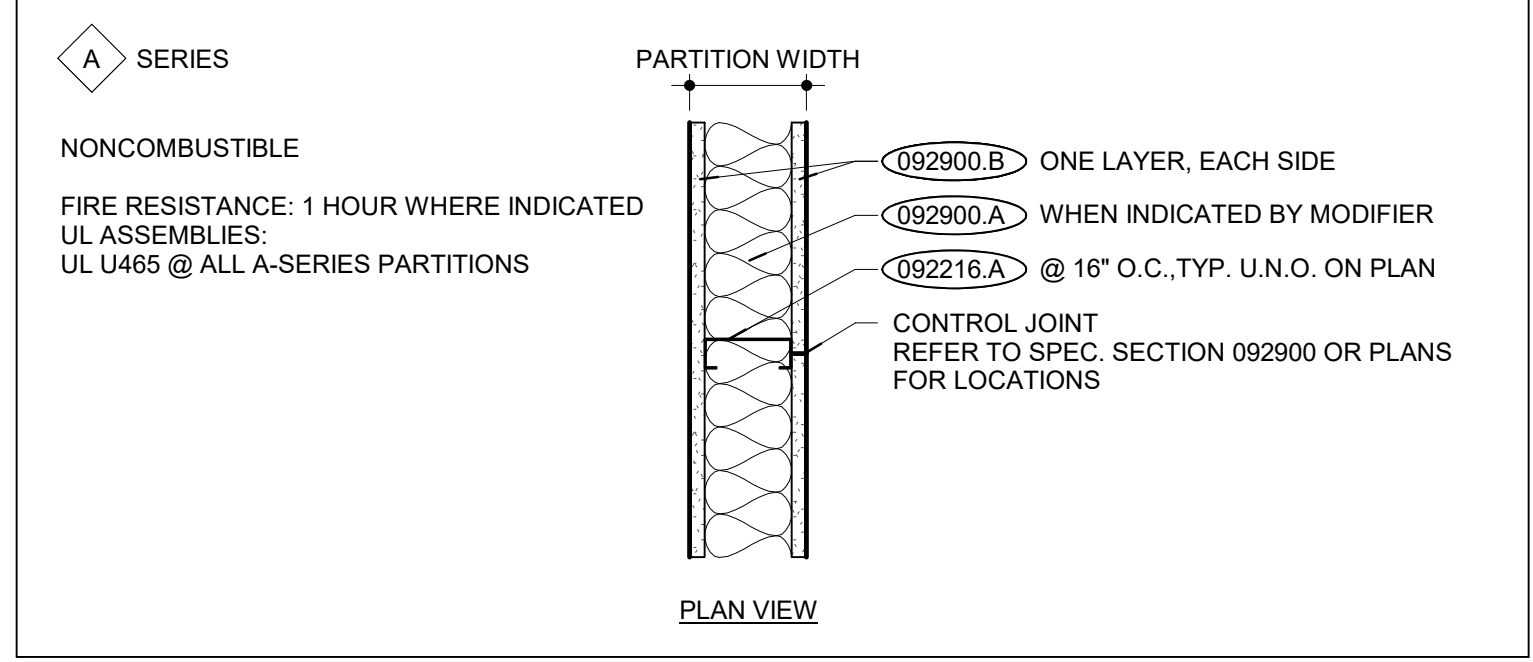
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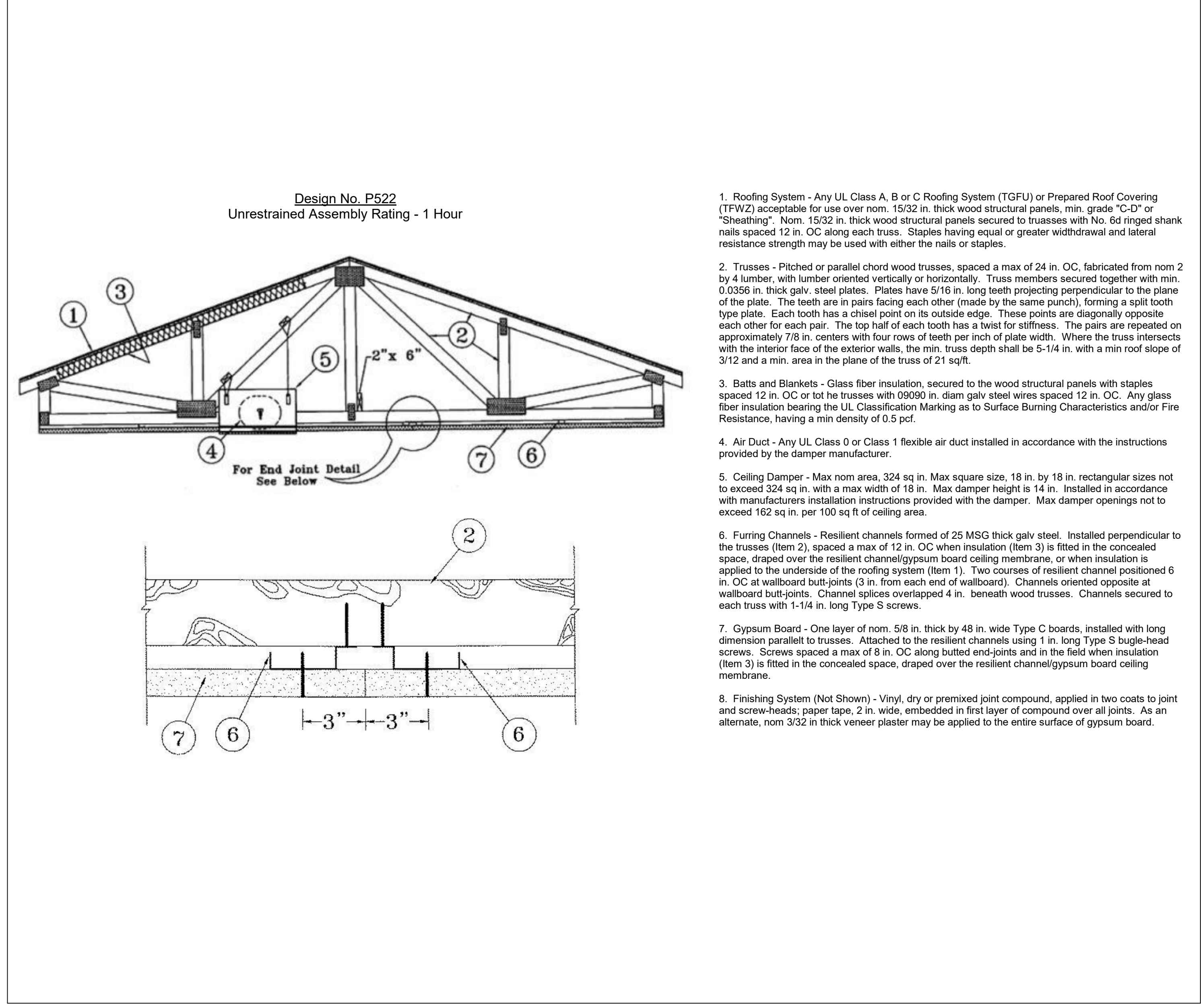
- A. PARTITION TYPES SHOW GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO SPECIFICATIONS, PRODUCT TECHNICAL DATA, AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION REQUIREMENTS.
- B. PARTITION REQUIREMENTS SHOWN ARE MINIMUM STANDARDS. WHERE ACTUAL CONDITIONS CAUSE PARTITION(S) TO EXCEED LIMITS, REINFORCE PARTITION(S) AS REQUIRED.
- C. MINIMUM STC RATINGS INDICATED ARE BASED ON PARTITION TYPES WITH 'a' MODIFIER ONLY. AT ACOUSTIC-RATED PARTITIONS (STC), PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
- D. AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS, AND OTHER FLUSH OR PENETRATING ITEMS WITH CONTINUOUS BEAD OF SEALANT.
- E. SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.
- F. FILL EACH JOINT AND PENETRATION IN EACH PARTITION WITH INSULATION TO ACHIEVE ACOUSTIC RATINGS (STC) AND SEAL ACCORDINGLY.
- G. TYPICAL FLOOR PLAN DIMENSIONS FOR PARTITIONS ARE TO FINISH FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE. MAINTAIN DIMENSION BETWEEN FACE OF FINISHES.
- H. PROVIDE FIRESTOPPING AT PENETRATIONS AND CONNECTIONS TO ADJACENT ASSEMBLIES IN FIRE-RATED PARTITIONS COMPLIANT WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
- I. ALL PENETRATIONS THROUGH FIRE-RESISTANCE RATED PARTITIONS SHALL BE SEALED WITH MATERIALS AND ASSEMBLIES NECESSARY TO MAINTAIN THE REQUIRED RATING OF THE WALL, FLOOR, AND/OR ROOF.
- J. FIRE AND/OR ACOUSTIC TEST REFERENCES CALLED OUT MAY VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.
- K. ENSURE FINISH SURFACES ARE FLUSH AND SEAMLESS WHERE PARTITIONS AND/OR FURRING ARE COPLANAR.
- L. ISOLATE NON-BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT TRANSFER OF LOADS TO PARTITION FRAMING.
- M. WALL FRAMING SHALL COORDINATE WITH REQUIRED MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND OTHER WORK.
- N. GYPSUM WALL CONTROL JOINTS (C.J.) SHALL BE INSTALLED AT A MAXIMUM 30'-0" O.C. AND AT MAJOR INTERRUPTIONS TO WALL SURFACE, SUCH AS DOORS, WINDOWS, AND EQUIPMENT OPENINGS. SEE ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL LOCATIONS REQUIRED.
- O. RECESSED ITEMS SHALL BE INSTALLED FLUSH WITH PARTITIONS U.N.O. PARTITION DEPTH MUST BE ADJUSTED TO ACCOMMODATE DEPTH OF RECESSED ITEM OR AS DIRECTED BY ARCHITECT.



PARTITION TYPE	STUD WIDTH	PARTITION WIDTH	STUD SPACING	NOTES
A3	3 5/8"	4 7/8"	16"	
B3	3 5/8"	4 1/4"	16"	

PARTITION TYPE - A SERIES | R29

PARTITION TYPE - B SERIES | R21



1. Roofing System - Any UL Class A, B or C Roofing System (TGFR) or Prepared Roof Covering (TFWC) acceptable for use over nom. 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom. 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be used with either the nails or staples.
2. Trusses - Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv. steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min. truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq.ft.
3. Batts and Blankets - Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 09090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf.
4. Air Duct - Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.
5. Ceiling Damper - Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.
6. Furring Channels - Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 12 in. OC when insulation (Item 3) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.
7. Gypsum Board - One layer of nom. 5/8 in. thick by 48 in. wide Type C boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 8 in. OC along butt-joints and in the field when insulation (Item 3) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane.
8. Finishing System (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joint and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in thick veneer plaster may be applied to the entire surface of gypsum board.

UL 1-HOUR CEILING ASSEMBLY - P522 | B5

- EXISTING CONSTRUCTION 000000.X
- NEW CONSTRUCTION 000000.X
- DIVISION 03 CONCRETE
- DIVISION 04 MASONRY
- DIVISION 05 METALS
- DIVISION 06 WOOD, PLASTICS + COMPOSITES
- DIVISION 07 THERMAL + MOISTURE PROTECTION
- DIVISION 08 OPENINGS
- DIVISION 09 FINISHES
 - 092216.A 3-5/8" STL. STUD
 - 092900.A SOUND ATTENUATION BLANKETS
 - 092900.B 5/8" GYPSUM BOARD
- DIVISION 10 SPECIALTIES
- DIVISION 11 EQUIPMENT
- DIVISION 12 FURNISHINGS
- DIVISION 14 CONVEYING EQUIPMENT
- DIVISION 22 PLUMBING
- DIVISION 23 HVAC
- DIVISION 26 ELECTRICAL
- DIVISION 31 EARTHWORK
- DIVISION 32 EXTERIOR IMPROVEMENTS

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909 LESLIE BLVD
JEFFERSON CITY, MO 65101

DATE:	08/02/2023
PROJ. NO.:	221202
DESIGNED BY:	AO, JL
DRAWN BY:	AO, JL
CHECKED BY:	JL, MA
APPROVED BY:	MA

SEAL:

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WALL TYPES

A001

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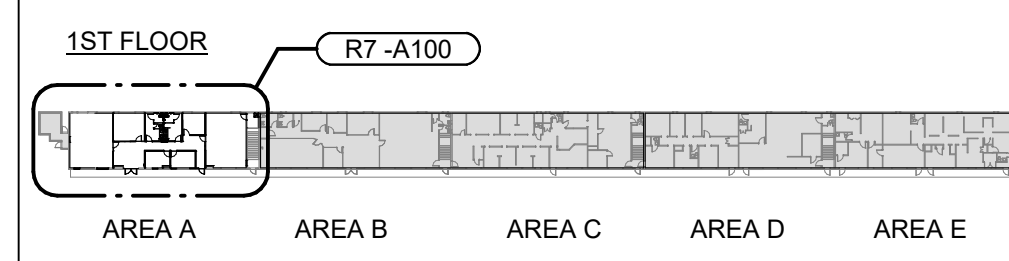
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AREA A FLOOR PLANS

A100



KEY PLAN | Z1

PLAN NOTES:

- NOT IN CONTRACT (UNLESS FOR MEP ACCESS)
- INDICATES EXISTING BUILDING ELEMENTS TO REMAIN
- 1 INSTALL NEW 5/8" GYPSUM WALL BOARD WHERE EXISTING WALL BOARD HAS BEEN REMOVED. FILL ANY OPEN CAVITIES WITHIN STUD WALL WITH BATT INSULATION.
- 2 INSTALL NEW 1/4" CEMENT BOARD OVER EXISTING 3/4" PLYWOOD SUBFLOOR AT RESTROOMS TO RECEIVE NEW CERAMIC TILE FLOORING
- X-# INDICATES NEW PLUMBING FIXTURE TO BE INSTALLED. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P000.
- CORNER GUARD. RE: 102600.A

FINISH NOTES:

- CPT - 1 TARKETT
 NAME: HAPHAZARD II
 COLOR: PARTICOLOR
 SIZE: 24" x 24" NOMINAL
- LVT - 1 TARKETT
 NAME: EVENT WOOD
 COLOR: CLASSIC PLANK CHESAPEAKE
 SIZE: 6" x 48" PLANK
- CFT - 1 CROSSVILLE
 NAME: JAVA JOINT
 COLOR: HOUSE BLEND
 SIZE: 12" x 24" NOMINAL
 FINISH: UNPOLISHED WITH CROSSVILLE SHEEN

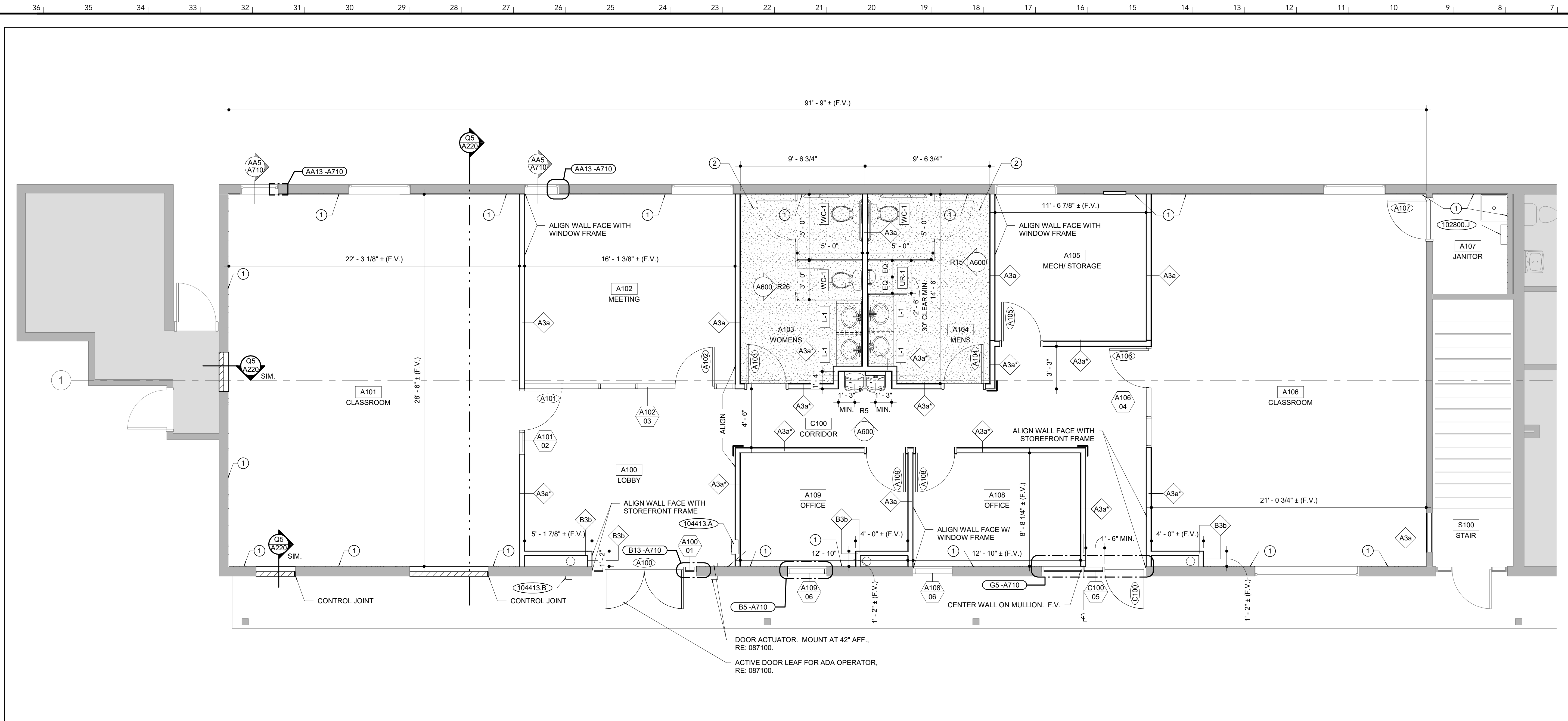
PAINT SCHEDULE:

- PT-1 BENJAMIN MOORE STEAM AF-15
- PT-2 BENJAMIN MOORE CLOUD WHITE OC 967
- PT-3 SHERWIN WILLIAMS SW9143 CADET
- PT-4 SHERWIN WILLIAMS SW6508 SECURE BLUE
- PT-5 SHERWIN WILLIAMS SW6509 GEORGIAN BAY

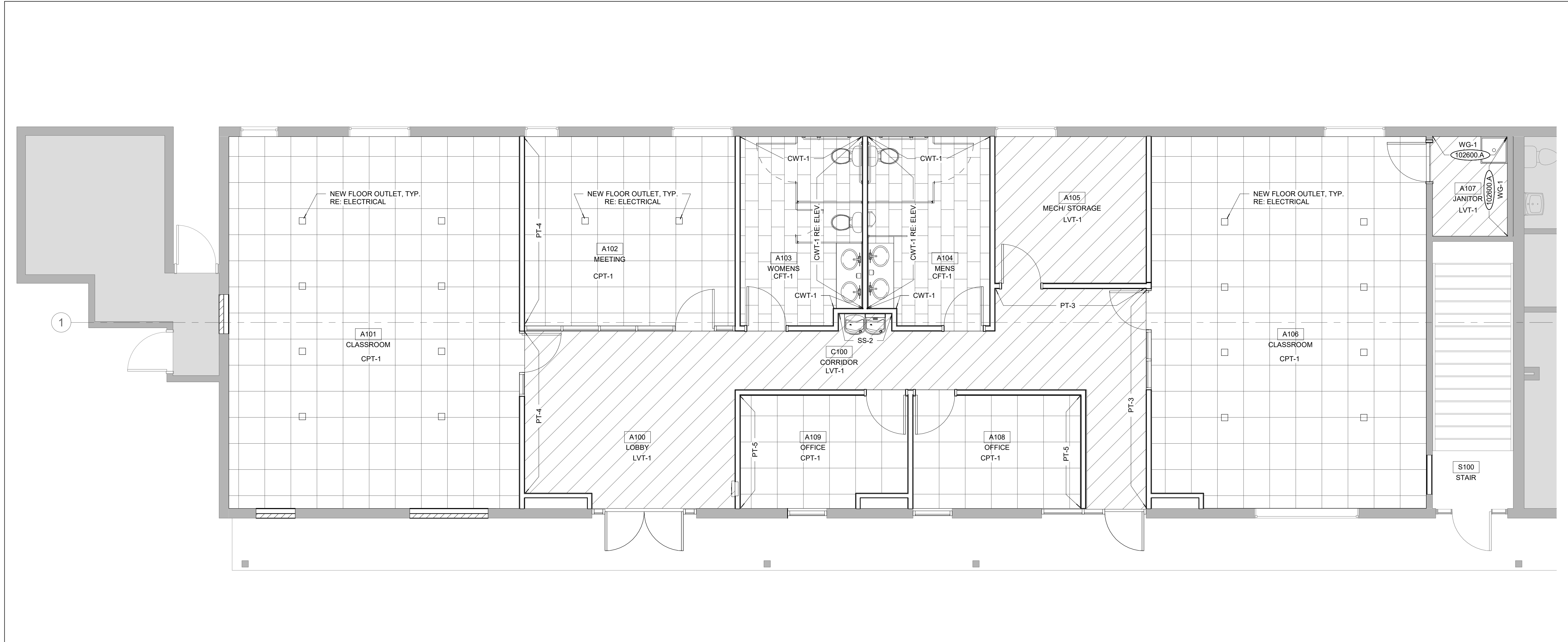
EXISTING CONSTRUCTION 000000 X
 NEW CONSTRUCTION 000000 X

DIVISION 10 SPECIALTIES

- 102600.A PROTECTIVE WALL GUARD
- 102800.J MOP HOLDER
- 104413.A SEMI-RECESSED FIRE EXTINGUISHER CABINET
- 104413.B SURFACE MOUNTED KNOX BOX



1ST FLOOR PLAN - AREA A R7
 SCALE: 1/4" = 1'-0"



1ST FLOOR PLAN - AREA A FINISH PLAN B7
 SCALE: 1/4" = 1'-0"

NOTES | B1



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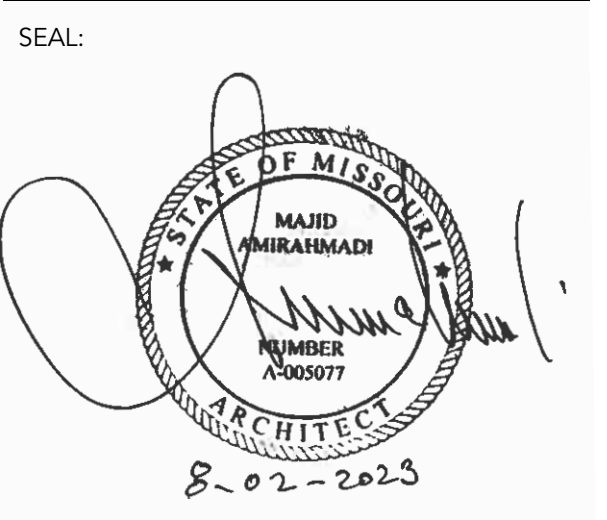


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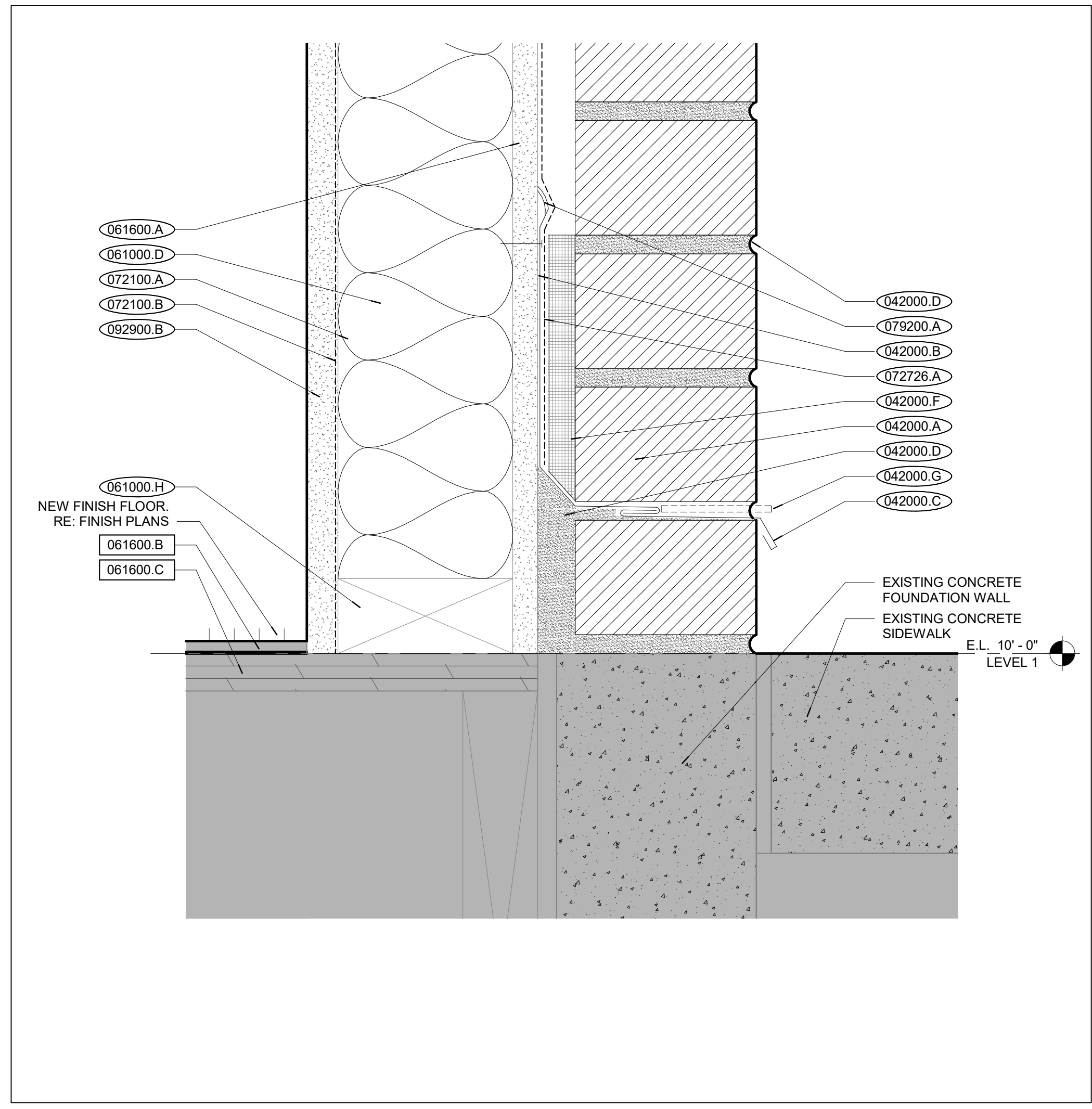
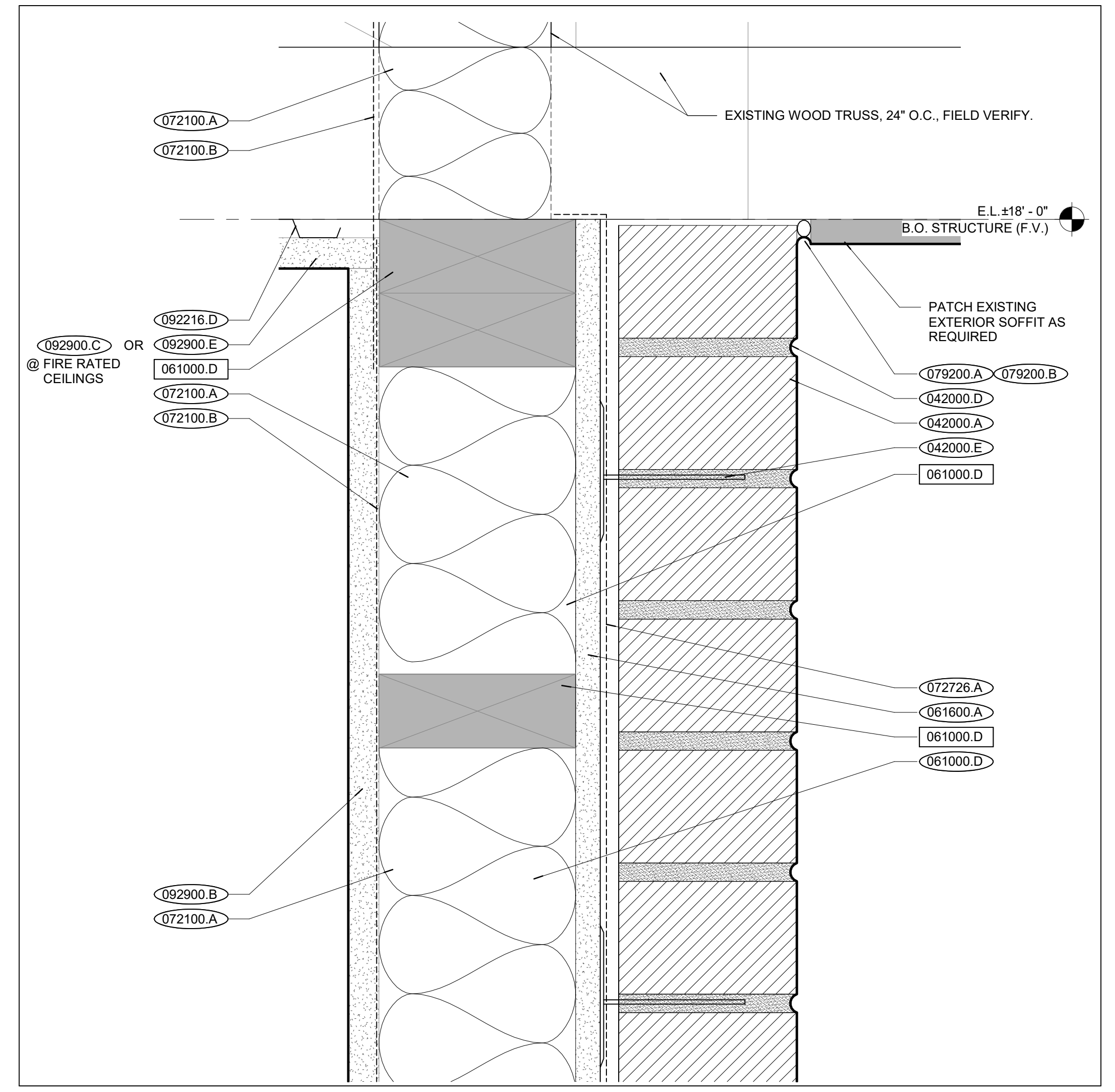
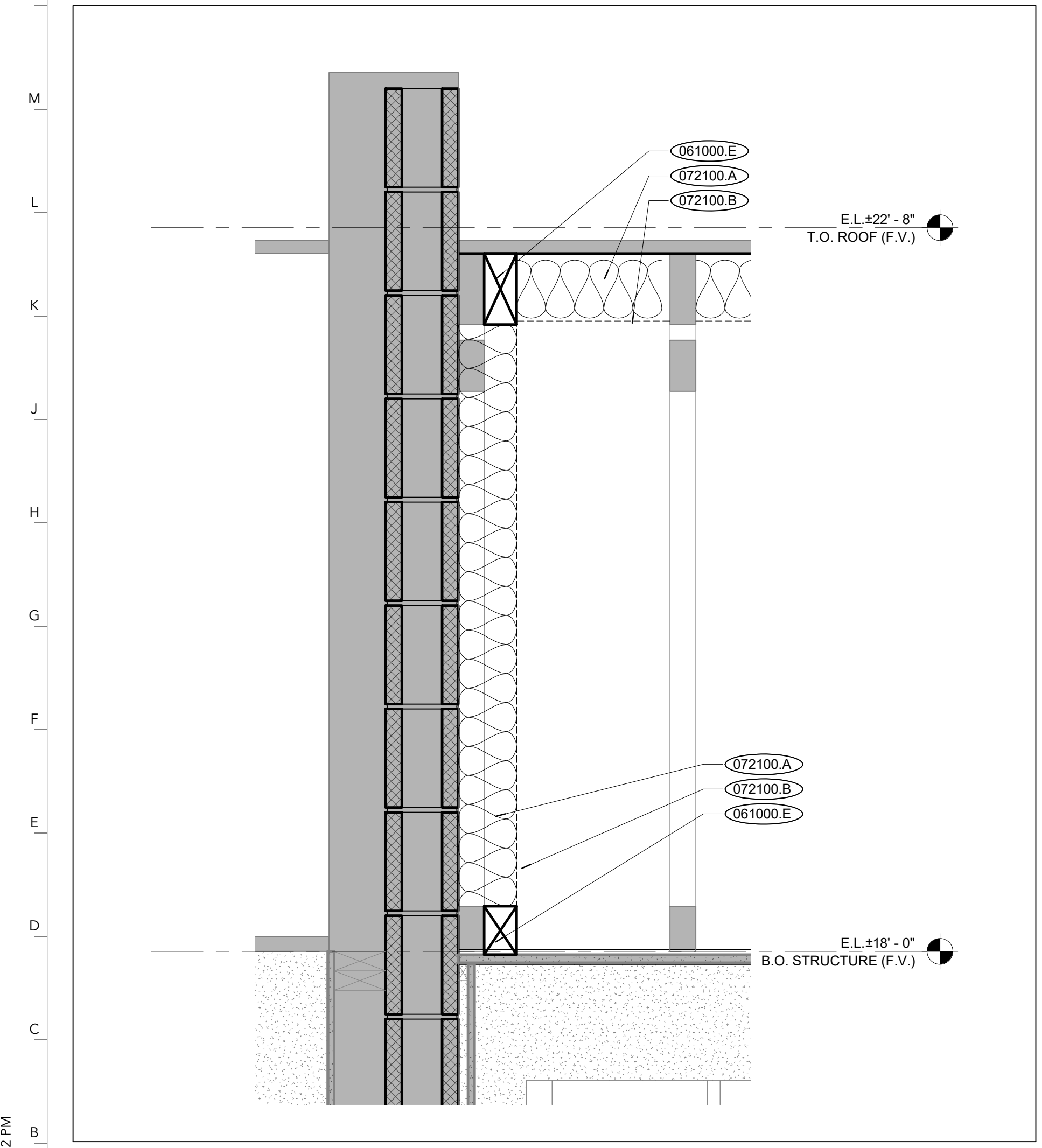
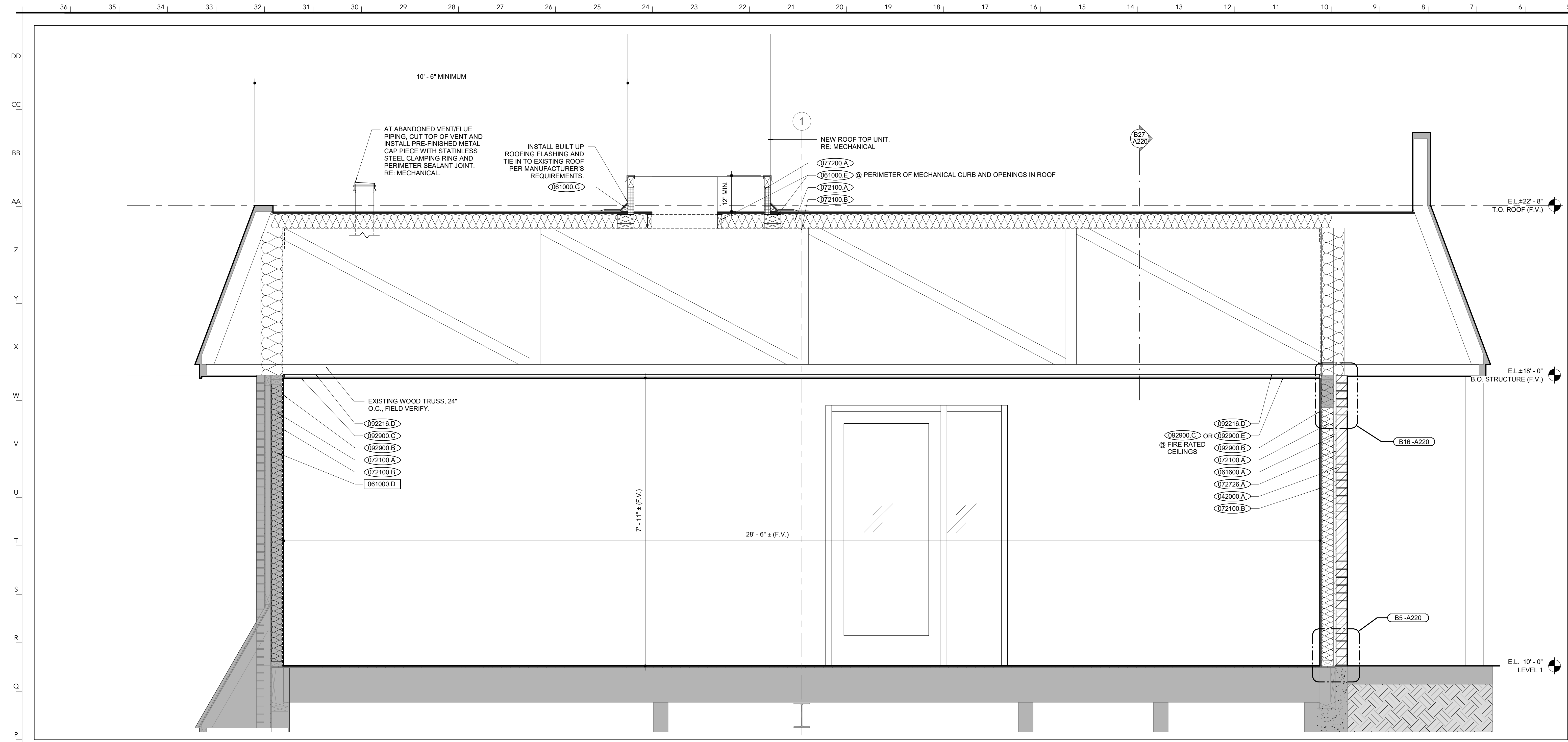


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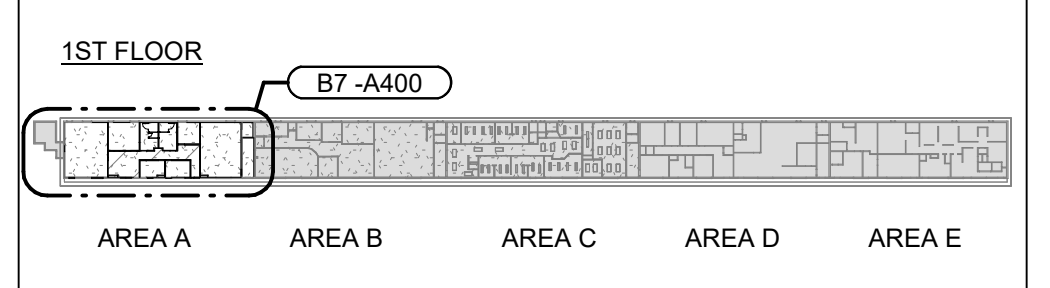
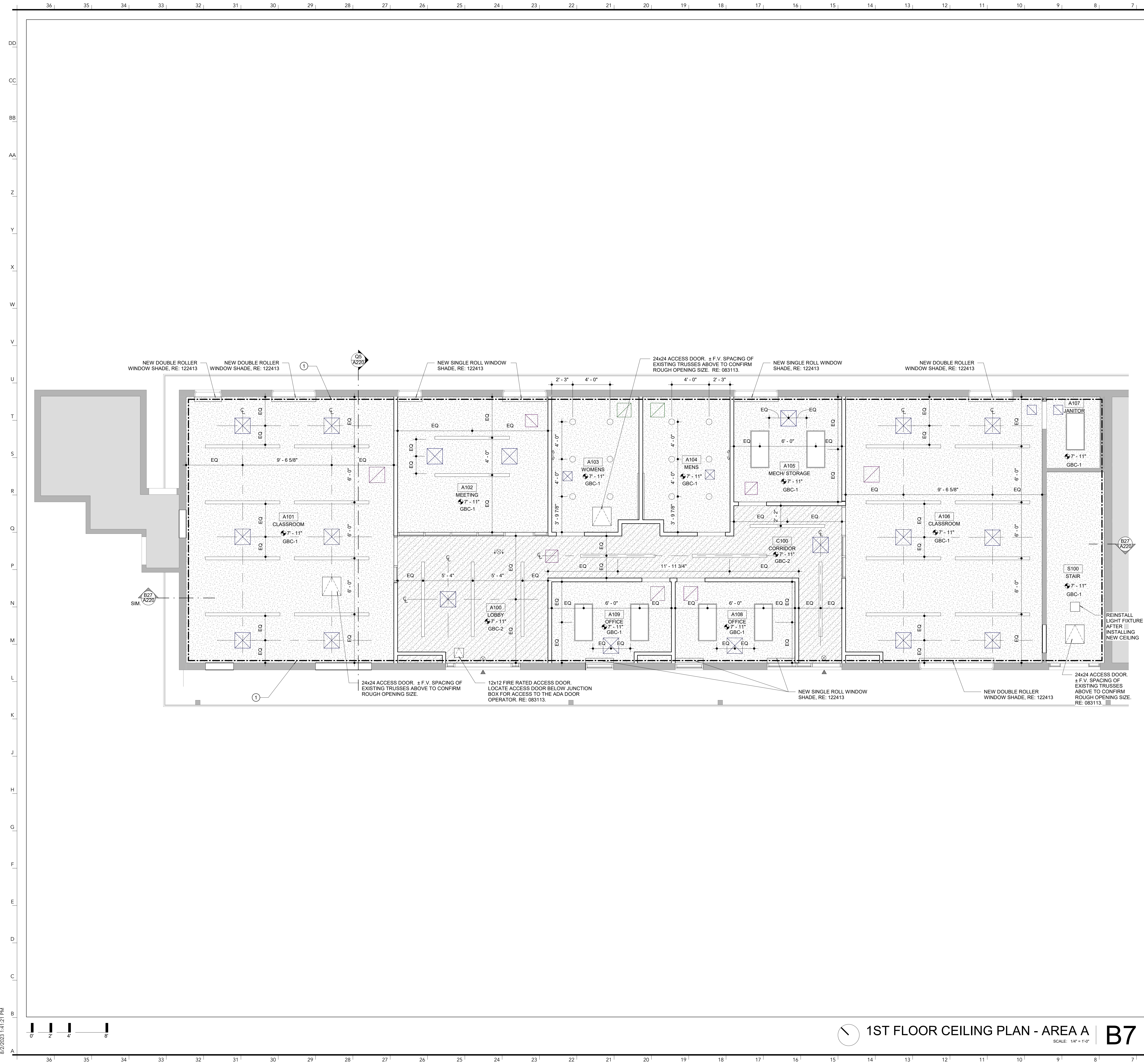
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0	ISSUED FOR BID	08/02/2023

BUILDING SECTIONS

A220



EXISTING CONSTRUCTION	000000.X
NEW CONSTRUCTION	000000.X
DIVISION 03 CONCRETE	
DIVISION 04 MASONRY	
042000.A	FACE BRICK
042000.B	COPPER FABRIC FLASHING
042000.C	S.S. DRIP EDGE
042000.D	SOLID GROUT/MORTAR
042000.E	MASONRY TIE/ANCHOR
042000.F	MORTAR NET
042000.G	WEEPS
DIVISION 05 METALS	
DIVISION 06 WOOD, PLASTICS + COMPOSITES	
061000.D	2 X 4 WOOD STUD FRAMING
061000.E	TREATED WOOD BLOCKING
061000.G	TREATED WOOD CANT
061000.H	
061600.A	1/2" EXTERIOR SHEATHING
061600.B	1/4" PLYWOOD UNDERLAYMENT
061600.C	3/4" PLYWOOD SUBFLOOR
DIVISION 07 THERMAL + MOISTURE PROTECTION	
072100.A	GLASS-FIBER THERMAL BATT INSULATION
072100.B	VAPOR RETARDER
072726.A	FLUID APPLIED, VAPOR-PERMEABLE AIR BARRIER
072000.A	INSULATED ROOF CURB
079200.A	JOINT SEALANT
079200.B	BACKER ROD
DIVISION 08 OPENINGS	
DIVISION 09 FINISHES	
092216.D	25 GA. GALV. STEEL RESILIENT CHANNEL
092900.B	5/8" GYPSUM BOARD
092900.C	5/8" TYPE-C GYPSUM CEILING BOARD
092900.E	1/2" GYPSUM CEILING BOARD
DIVISION 10 SPECIALTIES	
DIVISION 11 EQUIPMENT	
DIVISION 12 FURNISHINGS	
DIVISION 14 CONVEYING EQUIPMENT	
DIVISION 22 PLUMBING	
DIVISION 23 HVAC	
DIVISION 26 ELECTRICAL	
DIVISION 31 EARTHWORK	
DIVISION 32 EXTERIOR IMPROVEMENTS	



- PLAN NOTES:**
- NOT IN CONTRACT (UNLESS FOR MEP ACCESS)
 - INDICATES EXISTING BUILDING ELEMENTS TO REMAIN
- CEILING LEGEND:**
- GBC-1 NEW GYPSUM BOARD CEILING, PAINT PT
 - GBC-2 NEW FIRE-RATED GYPSUM BOARD CEILING ASSEMBLY, PAINT PT RE: A001, UL RATING P52
 - CEILING HEIGHT FROM FINISH FLOOR FIELD VERIFY
 - AT EXTENTS HIGHLIGHTED, INSTALL GLASS-FIBER BATT INSULATION AT THE UNDERSIDE OF THE ROOF SHEATHING COMPLETELY FILLING THE CAVITY OF THE TOP CHORDS OF ALL WOOD RAFTERS. INSTALL VAPOR BARRIER TO UNDERSIDE OF NEW BATT INSULATION. REFER TO SHEET A220.
- FIXTURE LEGEND:**
- SURFACE-MOUNT 2' x 4' LED LIGHT FIXTURE, RE: ELECTRICAL
 - SURFACE-MOUNT LED LIGHT FIXTURE, RE: ELECTRICAL
 - SURFACE-MOUNT DOWN LIGHT, RE: ELECTRICAL
 - SUPPLY DIFFUSER, RE: MECHANICAL
 - RETURN GRILLE, RE: MECHANICAL
 - CEILING ACCESS DOOR, RE: 083113.

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 DRAWN BY: AO, JL
 CHECKED BY: JL, MA
 APPROVED BY: MA

SEAL:

 8-02-2023

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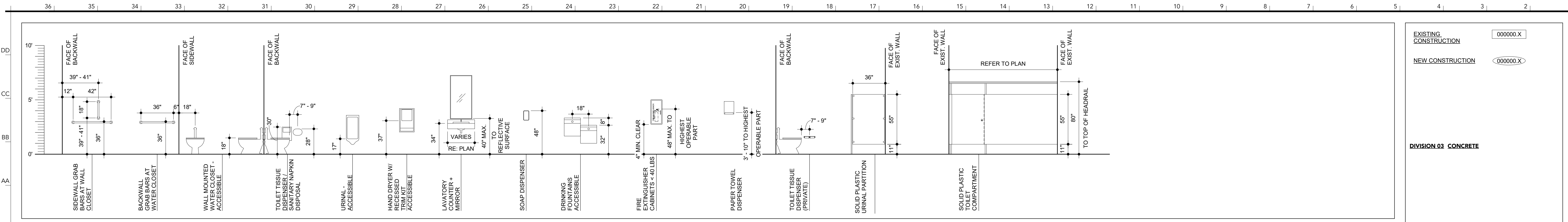
AREA A CEILING PLAN

A400

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1ST FLOOR CEILING PLAN - AREA A | B7
 SCALE: 1/8" = 1'-0"
 NOTES | B1

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EXISTING CONSTRUCTION 00000.X
NEW CONSTRUCTION 00000.X

DIVISION 03 CONCRETE

DIVISION 04 MASONRY

DIVISION 05 METALS

DIVISION 06 WOOD, PLASTICS + COMPOSITES
061600.B 1/4" PLYWOOD UNDERLAYMENT
061600.C 3/4" PLYWOOD SUBFLOOR

DIVISION 07 THERMAL + MOISTURE PROTECTION

DIVISION 08 OPENINGS
081416.A FLUSH WOOD DOOR

DIVISION 09 FINISHES
093013.D 1/4" CEMENT BOARD
093013.A CERAMIC TILE
093013.B METAL TRANSITION STRIP
093013.C CRACK ISOLATION MEMBRANE
096519.A LUXURY VINYL TILE
096813.A CARPET TILE
099123.A PAINT

DIVISION 10 SPECIALTIES
102113.A PLASTIC TOILET COMPARTMENT
102113.B PLASTIC URINAL COMPARTMENT
102800.A 42" GRAB BAR
102800.B 36" GRAB BAR
102800.C 18" GRAB BAR
102800.D TOILET PAPER DISPENSER
102800.E SOAP DISPENSER
102800.F FRAMED MIRROR
102800.G PAPER TOWEL DISPENSER
102800.H COAT HOOK
102800.J SANITARY NAPKIN DISPENSER

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS
123661.A 1/2" SOLID SURFACE
123661.B 1/4" SOLID SURFACE
123661.C CONCEALED COUNTERTOP SUPPORT BRACKET

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING
220000.A WATER CLOSET RE-PLUMBING
220000.B URINAL RE-PLUMBING
220000.C LAVATORY RE-PLUMBING
220000.D DRINKING FOUNTAIN RE-PLUMBING
220000.E ADA P-TRAP COVER RE-PLUMBING

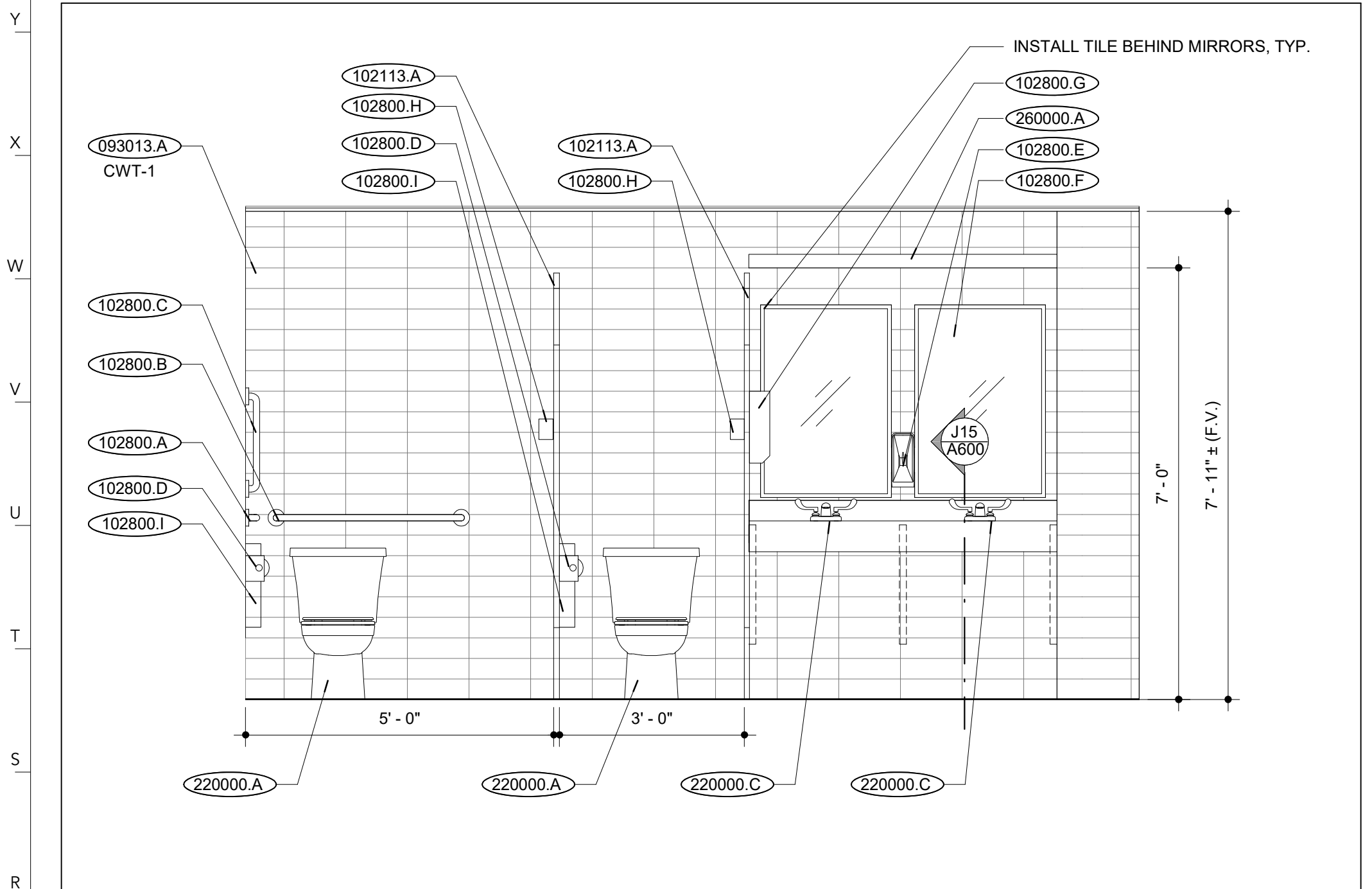
DIVISION 23 HVAC

DIVISION 26 ELECTRICAL
260000.A LIGHTING RE-ELECTRICAL

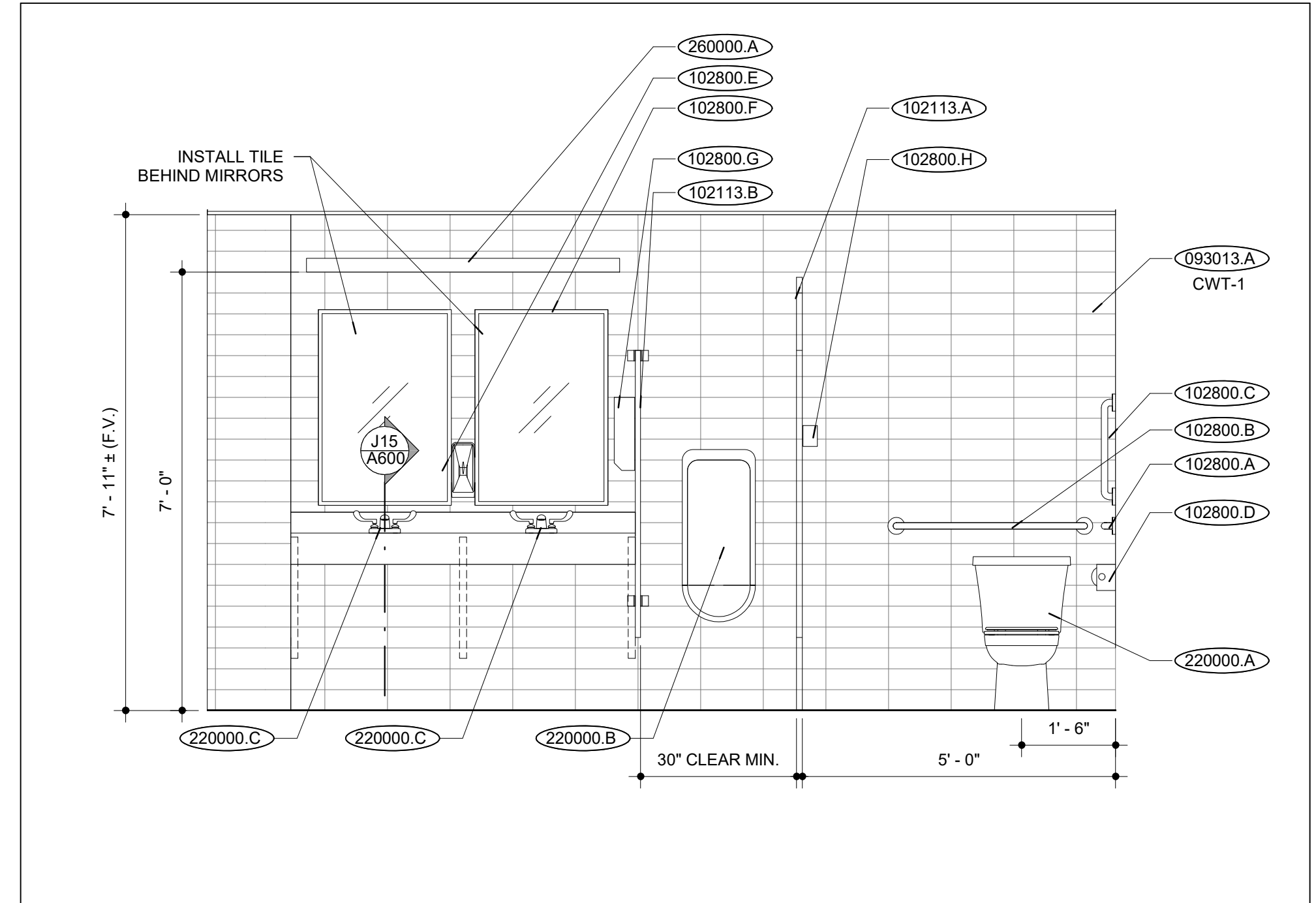
DIVISION 31 EARTHWORK

DIVISION 32 EXTERIOR IMPROVEMENTS

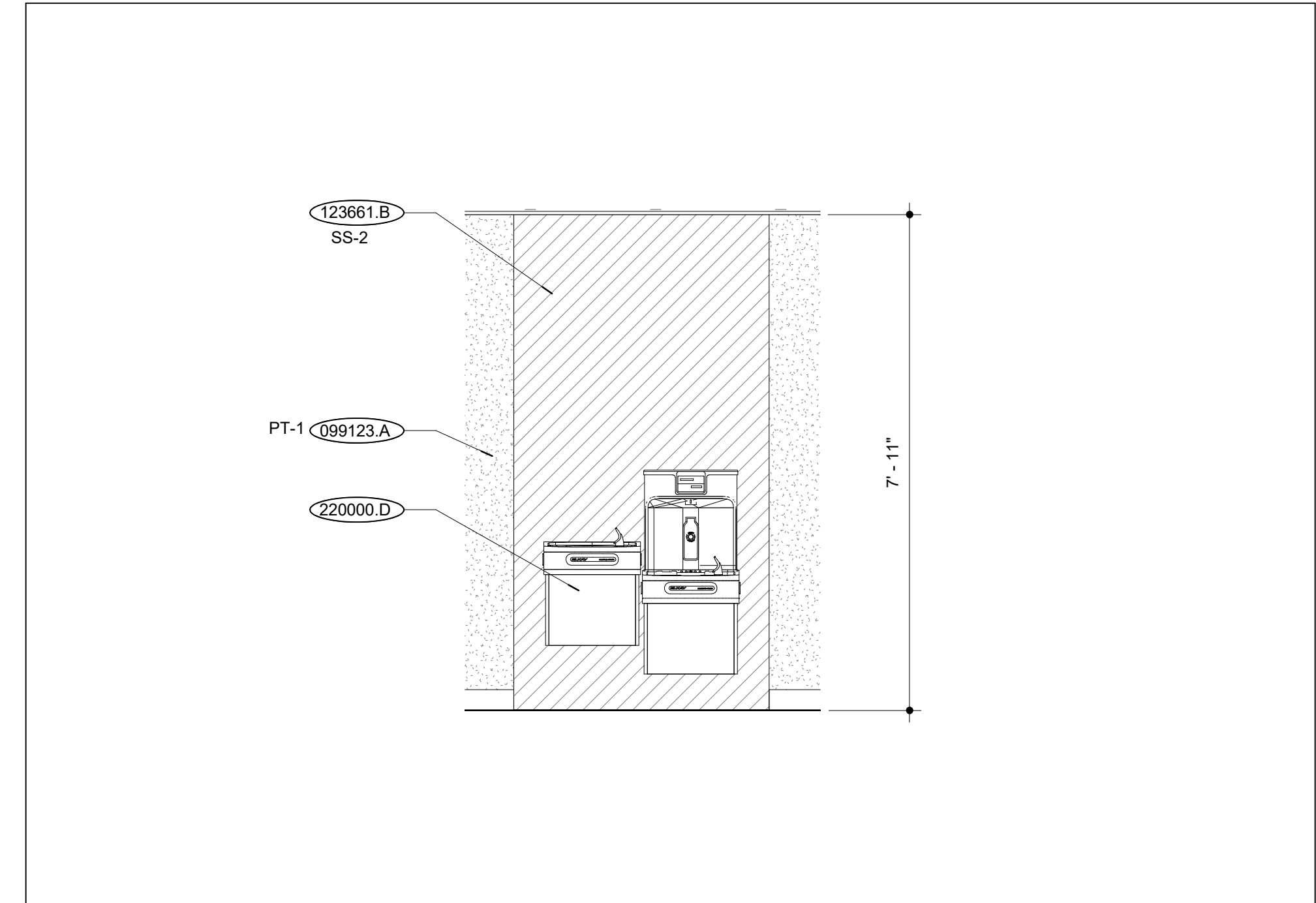
TYPICAL MOUNTING HEIGHTS | **R25**



WOMENS - A103 - E | **R26**
SCALE: 1/2" = 1'-0"



MENS - A104 - W | **R15**
SCALE: 1/2" = 1'-0"



CORRIDOR - C100 - N | **R5**
SCALE: 1/2" = 1'-0"

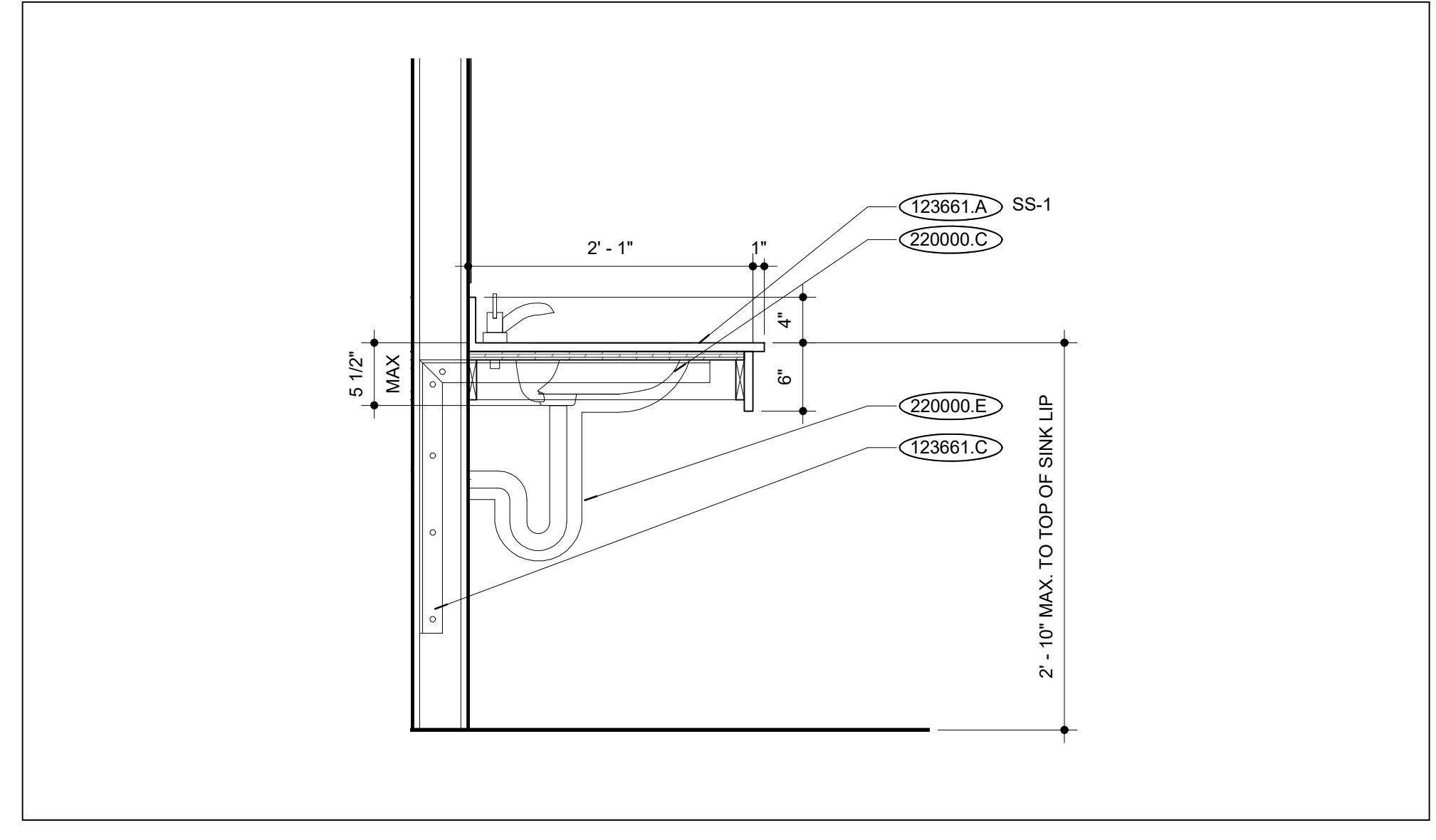
ROOM FINISH SCHEDULE

ROOM NO.	NAME	FLOOR FINISH	BASE FINISH	WALLS				CEILING FINISH	COMMENTS
				NORTH	EAST	SOUTH	WEST		
A100	LOBBY	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-4	PT-2	
A101	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-2	
A102	MEETING	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-4	PT-2	
A103	WOMENS	CFT-1	RB-1 / CWT-1	CWT-1	CWT-1	PT-1	PT-1	PT-2	
A104	MENS	CFT-1	RB-1 / CWT-1	CWT-1	CWT-1	PT-1	CWT-1	PT-2	
A105	MECH STORAGE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-2	
A106	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-2	
A107	LAMINATOR	LVT-1	RB-1	WG-1 / PT-1	WG-1 / PT-1	PT-1	PT-1	PT-2	
A108	OFFICE	CPT-1	RB-1	PT-1	PT-5	PT-1	PT-1	PT-2	
A109	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-5	PT-2	
C100	CORRIDOR	LVT-1	RB-1	PT-1 / SS-2	PT-3	PT-1	PT-4	PT-2	
S100	STAIR	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	PT-2	

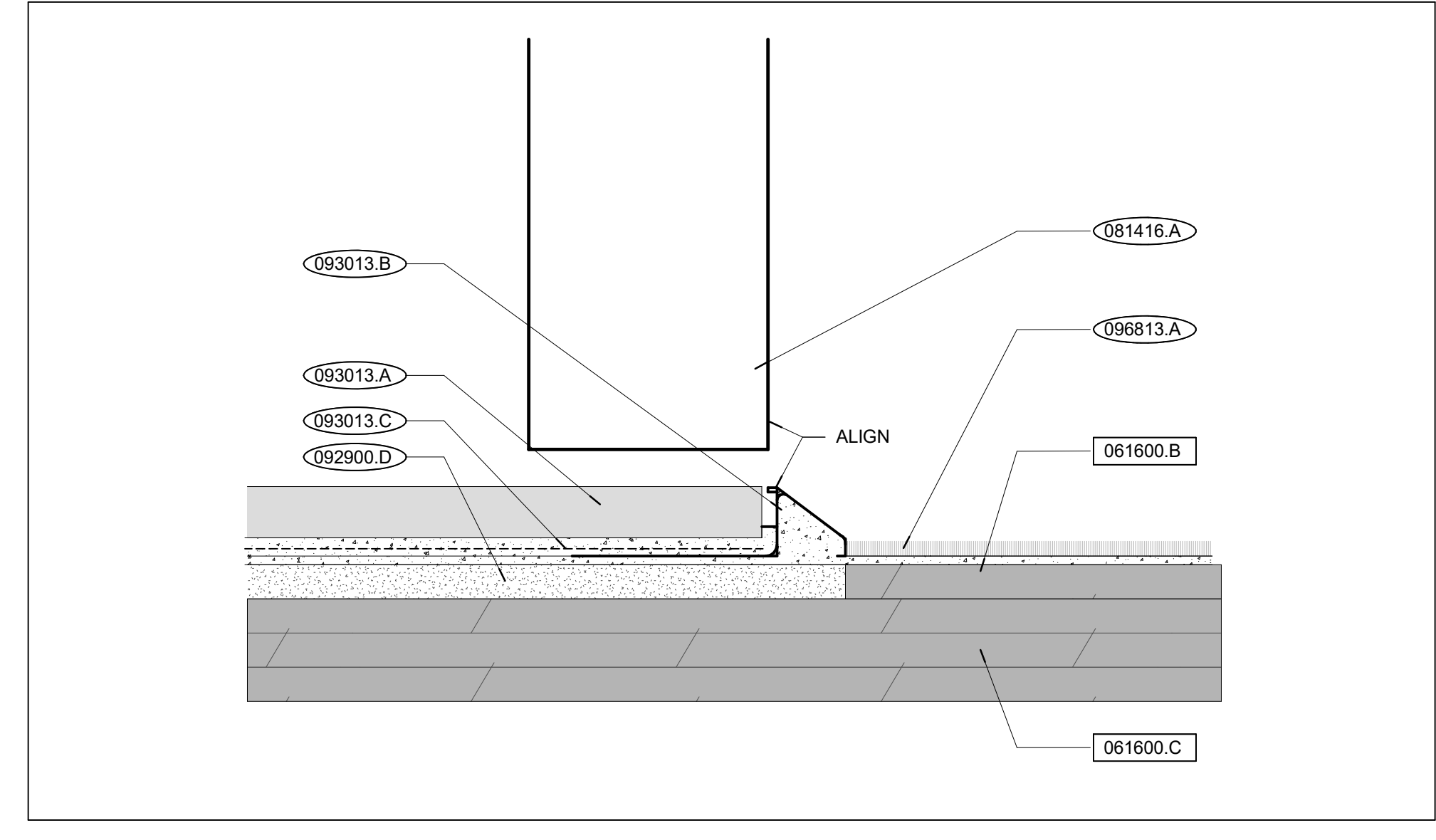
FLOOR FINISHES		BASE FINISHES	
CFT	CERAMIC FLOOR TILE, RE: 093013	RB	RESILIENT BASE, RE: 096513
CPT	CARPET TILE, RE: 096813		
LVT	LUXURY VINYL TILE, RE: 096519		

WALL FINISHES		CEILING FINISHES	
CWT	CERAMIC WALL TILE, RE: 093013	GBC	GYPSUM BOARD CEILING, RE: 092900
PT	PAINT, RE: 099123		
SS	SOLID SURFACE WALL PANEL, RE: 123661		
WG	PROTECTIVE WALL GUARD, RE: 102800		

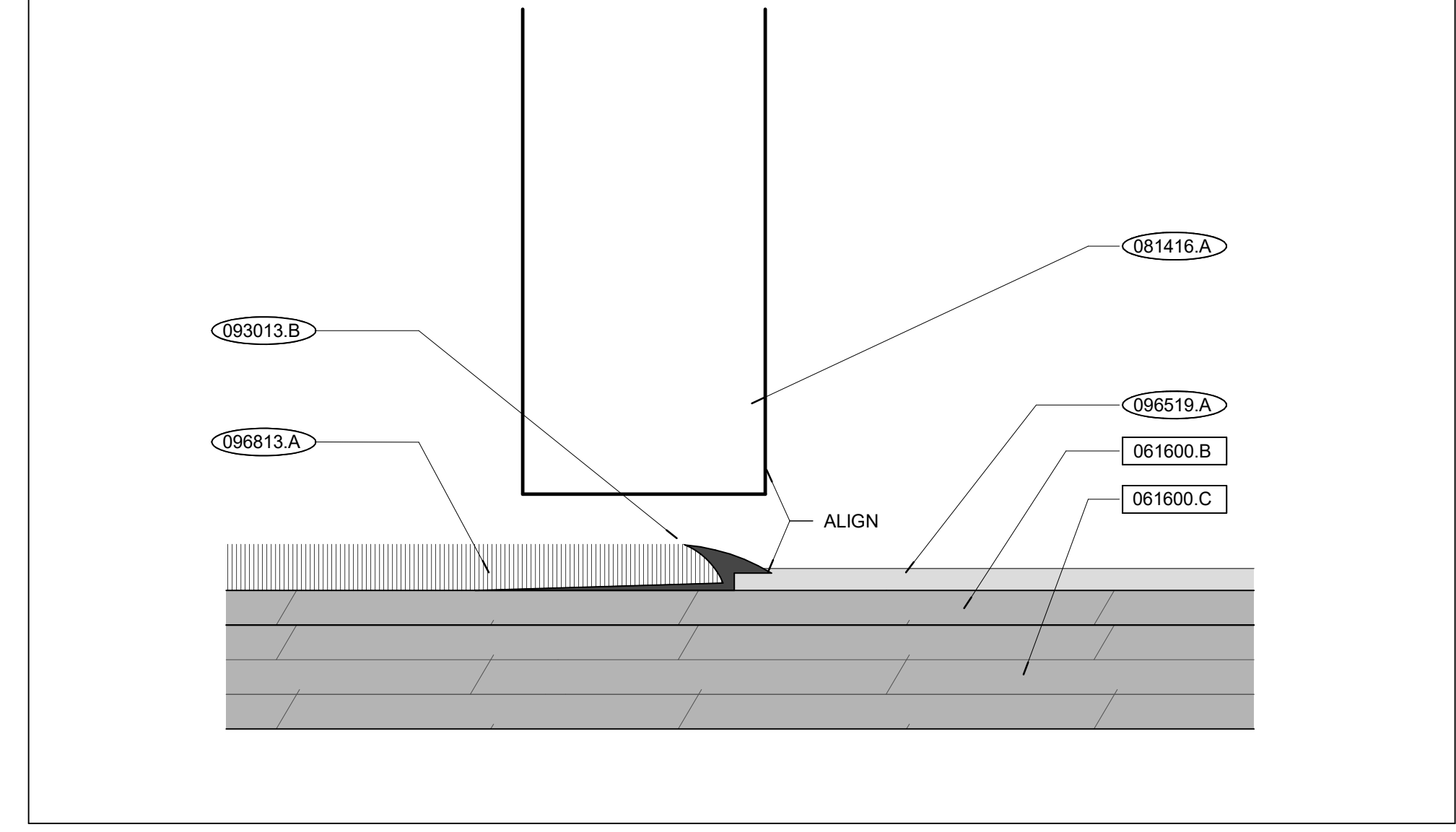
FINISH SCHEDULE | **B26**



SINK W/ REMOV. PANEL | **J15**
SCALE: 1" = 1'-0"



TILE TO CARPET | **J5**
FULL SCALE



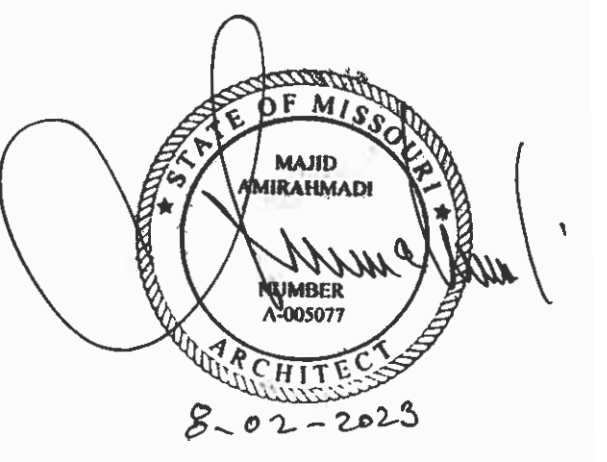
CARPET TO LVT | **B5**
FULL SCALE



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INT. ELEVATIONS, FINISHES, & DETAILS

A600

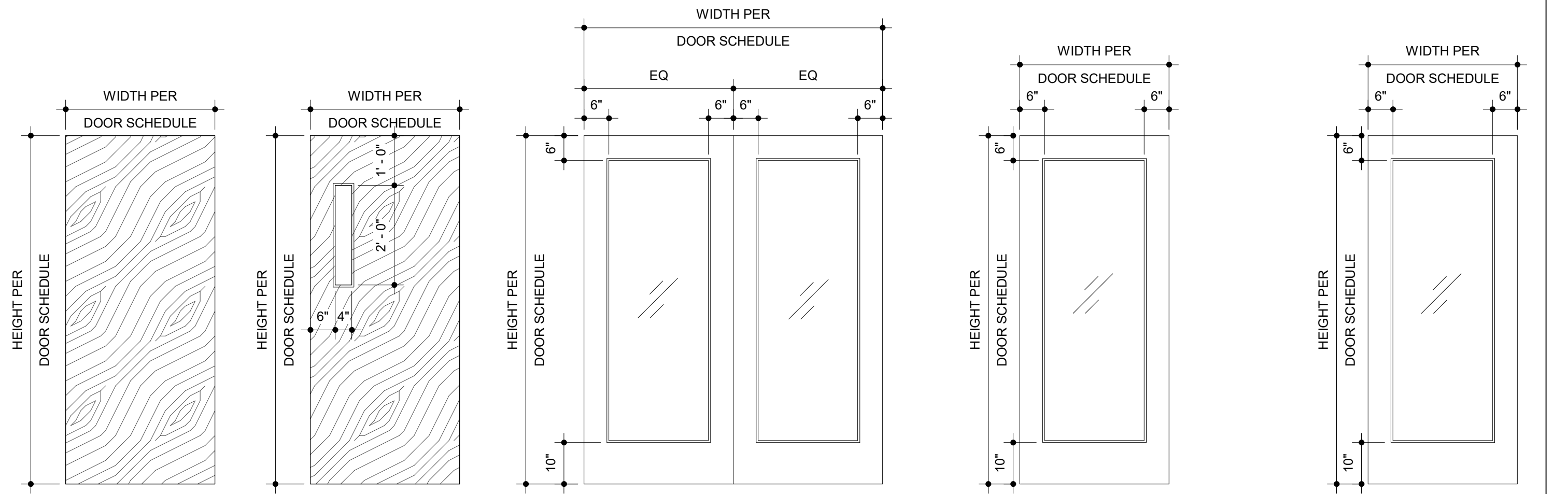
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DOOR SCHEDULE														
DOOR	HEIGHT	SIZE		# LEAVES	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	GLAZING TYPE	FIRE RATING	HARDWARE	DETAIL DRAWINGS		
		THICKNESS	WIDTH										HEAD	JAMB
A100	7' - 0"	0' - 1 3/4"	3' - 0"	2	AL-1	HPOF	AL ST, RE: A710	HPOF	GL-2	-	1	N16/A700	B13/A710	
A101	7' - 0"	0' - 1 3/4"	3' - 0"	1	HM-1	HPOF	HM ST, RE: A710	PT-1	GL-1	20	6	N24/A700	N30/A700	
A102	7' - 0"	0' - 1 3/4"	3' - 0"	1	HM-1	HPOF	HM ST, RE: A710	PT-1	GL-1	20	5	N24/A700	N30/A700	
A103	7' - 0"	0' - 1 3/4"	3' - 0"	1	WD-1	PT-1	HM-1	PT-1	-	20	3	N24/A700	N30/A700	
A104	7' - 0"	0' - 1 3/4"	3' - 0"	1	WD-1	PT-1	HM-1	PT-1	-	20	3	N24/A700	N30/A700	
A105	7' - 0"	0' - 1 3/4"	3' - 0"	1	WD-1	PT-1	HM-1	PT-1	-	20	7	N24/A700	N30/A700	
A106	7' - 0"	0' - 1 3/4"	3' - 0"	1	HM-1	HPOF	HM ST, RE: A710	PT-1	GL-1	20	6	N24/A700	N30/A700	
A107	7' - 0"	0' - 1 3/4"	3' - 0"	1	WD-1	PT-1	HM-1	PT-1	-	8	-	N24/A700	N30/A700	
A108	7' - 0"	0' - 1 3/4"	3' - 0"	1	WD-2	PT-1	HM-1	PT-1	GL-1	20	4	N24/A700	N30/A700	
A109	7' - 0"	0' - 1 3/4"	3' - 0"	1	WD-2	PT-1	HM-1	PT-1	GL-1	20	4	N24/A700	N30/A700	
C100	7' - 0"	0' - 1 3/4"	3' - 0"	1	AL-2	HPOF	AL ST, RE: A710	HPOF	GL-2	-	2	N16/A700	G5/A710	

DOOR MATERIAL		FRAME MATERIAL	
AL	ALUMINUM DOOR, RE: 084126	AL	ALUMINUM FRAME, RE: 084126
WD	SOLID-CORE WOOD DOOR, RE: 081416	HM	HOLLOW METAL FRAME, RE: 081113

DOOR / FRAME FINISH	
HPOF	HIGH PERFORMANCE ORGANIC FINISH, RE: 084116
PT	PAIN, RE: 099123
ST	STAIN, RE: 081416

- GLAZING TYPES:**
- (GL-1)** 3/16" FIRE RATED MONOLITHIC CERAMIC CLEAR AND WIRELESS GLAZING
FIRE RATING: 45 MINUTES
SURFACE APPLIED-FILM LISTED FOR USE IN IMPACT SAFETY RATED GLAZING
 - (GL-2)** 1" INSULATING GLASS UNIT - LOW-E
- 1/4" (6mm) LOW-E FULLY TEMPERED GLASS
- 1/2" ALUMINUM AIRSPACER
- 1/4" (6mm) CLEAR FULLY TEMPERED GLASS
SURFACE:
1 - NONE
2 - LOW-E COATING
3 - NONE
4 - NONE

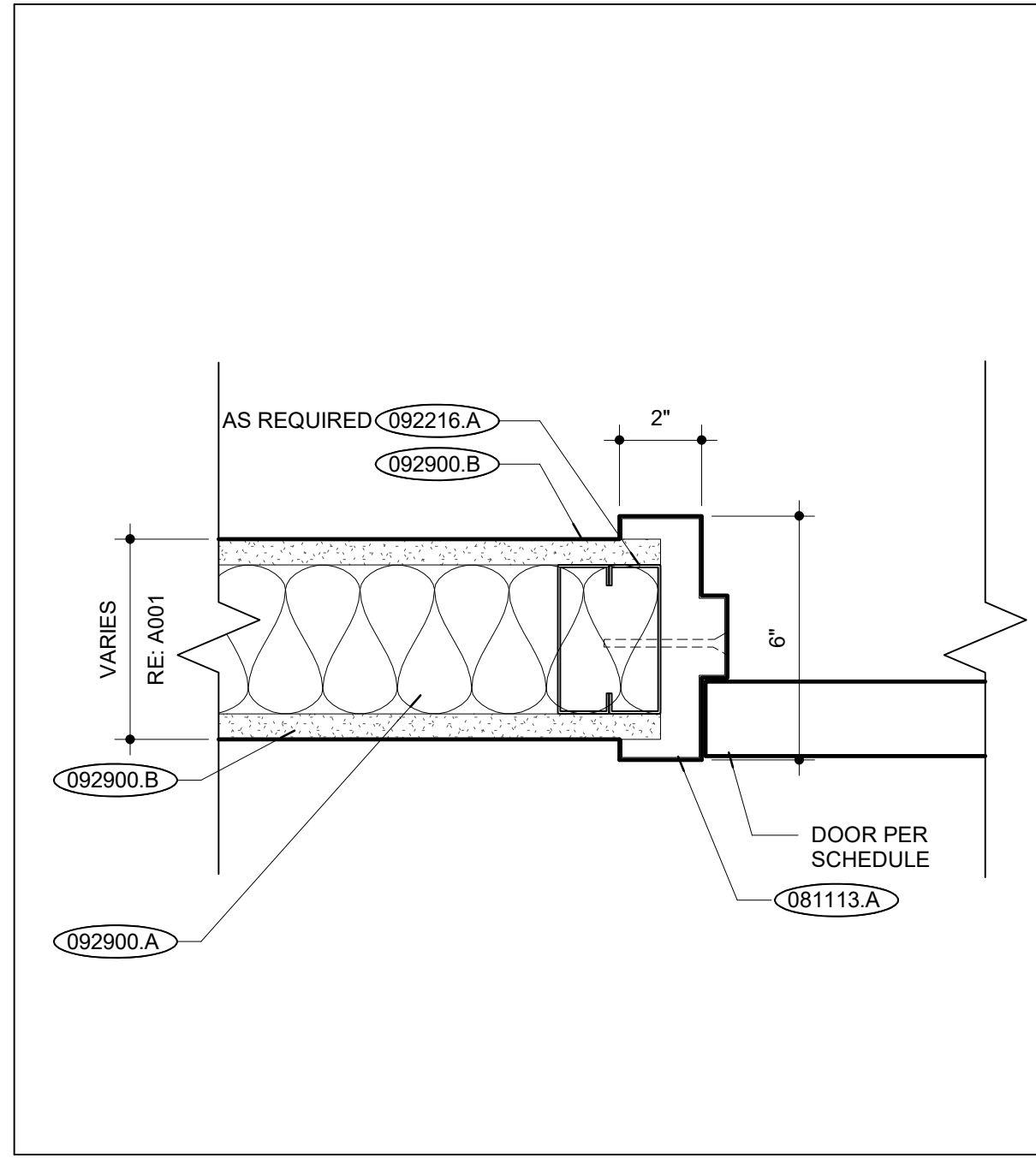


WD-1 SINGLE FLUSH WOOD DOOR RE: 081416
WD-2 SINGLE FLUSH WOOD DOOR W VISION PANEL RE: 081416
AL-1 DOUBLE THERMALLY BROKEN ALUMINUM STOREFRONT DOOR RE: 084113
AL-2 SINGLE THERMALLY BROKEN ALUMINUM STOREFRONT DOOR RE: 084113
HM-1 HOLLOW METAL DOOR FULL LITE RE: 081113

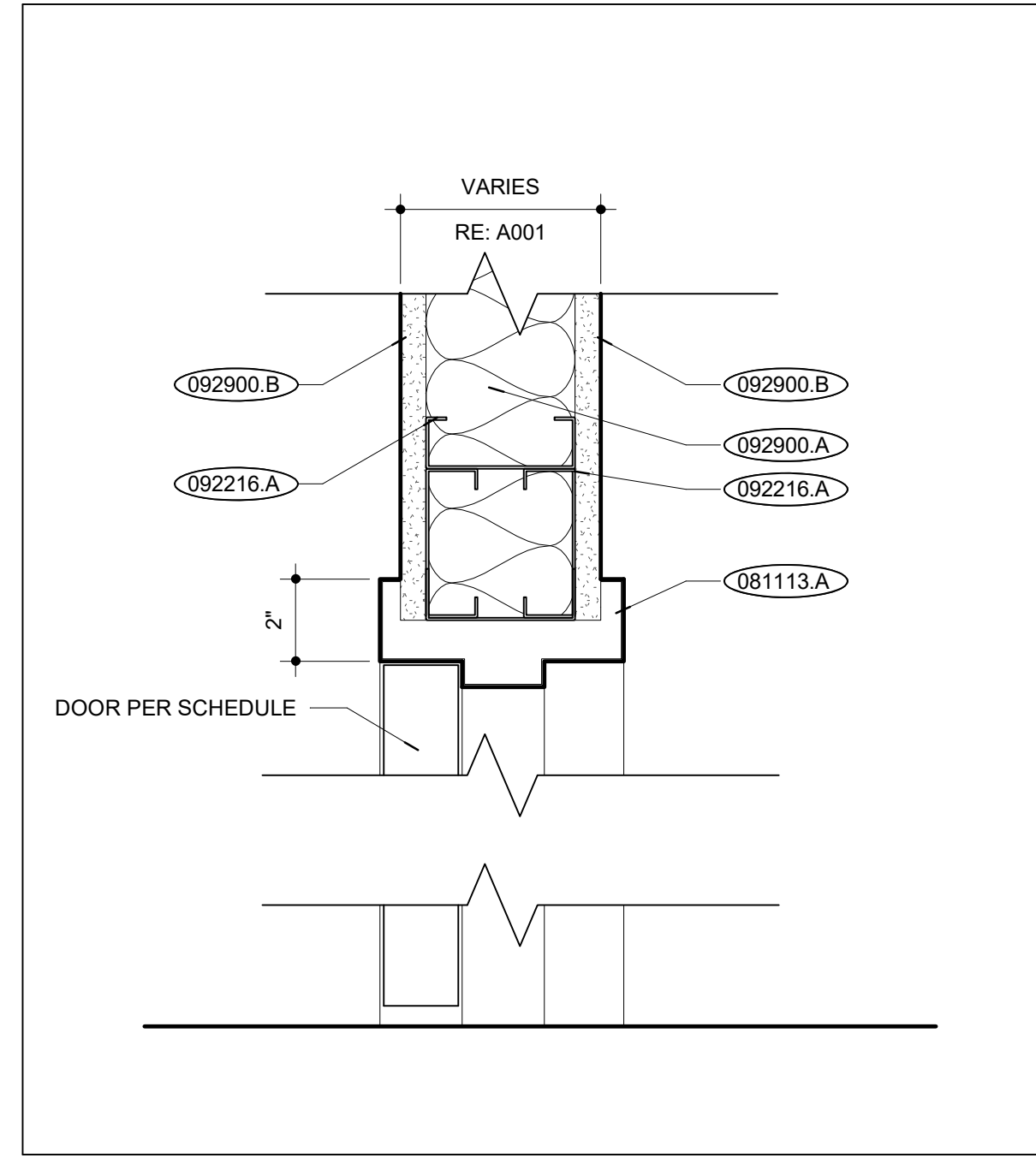
EXISTING CONSTRUCTION	000000.X
NEW CONSTRUCTION	000000.X
DIVISION 03 CONCRETE	
DIVISION 04 MASONRY	
042000.A	FACE BRICK
042000.C	S.S. DRIP EDGE
DIVISION 05 METALS	
051200.A	STEEL ANGLE
DIVISION 06 WOOD, PLASTICS + COMPOSITES	
061000.B	1/2" PLYWOOD
DIVISION 07 THERMAL + MOISTURE PROTECTION	
072100.A	GLASS-FIBER THERMAL BATT INSULATION
072100.B	VAPOR RETARDER
079200.A	JOINT SEALANT
079200.B	BACKER ROD
DIVISION 08 OPENINGS	
081113.A	HOLLOW METAL DOOR FRAME
084113.A	ALUMINUM STOREFRONT
084113.B	ALUMINUM DOOR
DIVISION 09 FINISHES	
092216.A	3-5/8" STL STUD
092900.A	SOUND ATTENUATION BLANKETS
092900.B	5/8" GYPSUM BOARD
099123.A	PAINT
DIVISION 10 SPECIALTIES	
DIVISION 11 EQUIPMENT	
DIVISION 12 FURNISHINGS	
DIVISION 14 CONVEYING EQUIPMENT	
DIVISION 22 PLUMBING	
DIVISION 23 HVAC	
DIVISION 26 ELECTRICAL	
DIVISION 31 EARTHWORK	
DIVISION 32 EXTERIOR IMPROVEMENTS	

DOOR SCHEDULE | W21

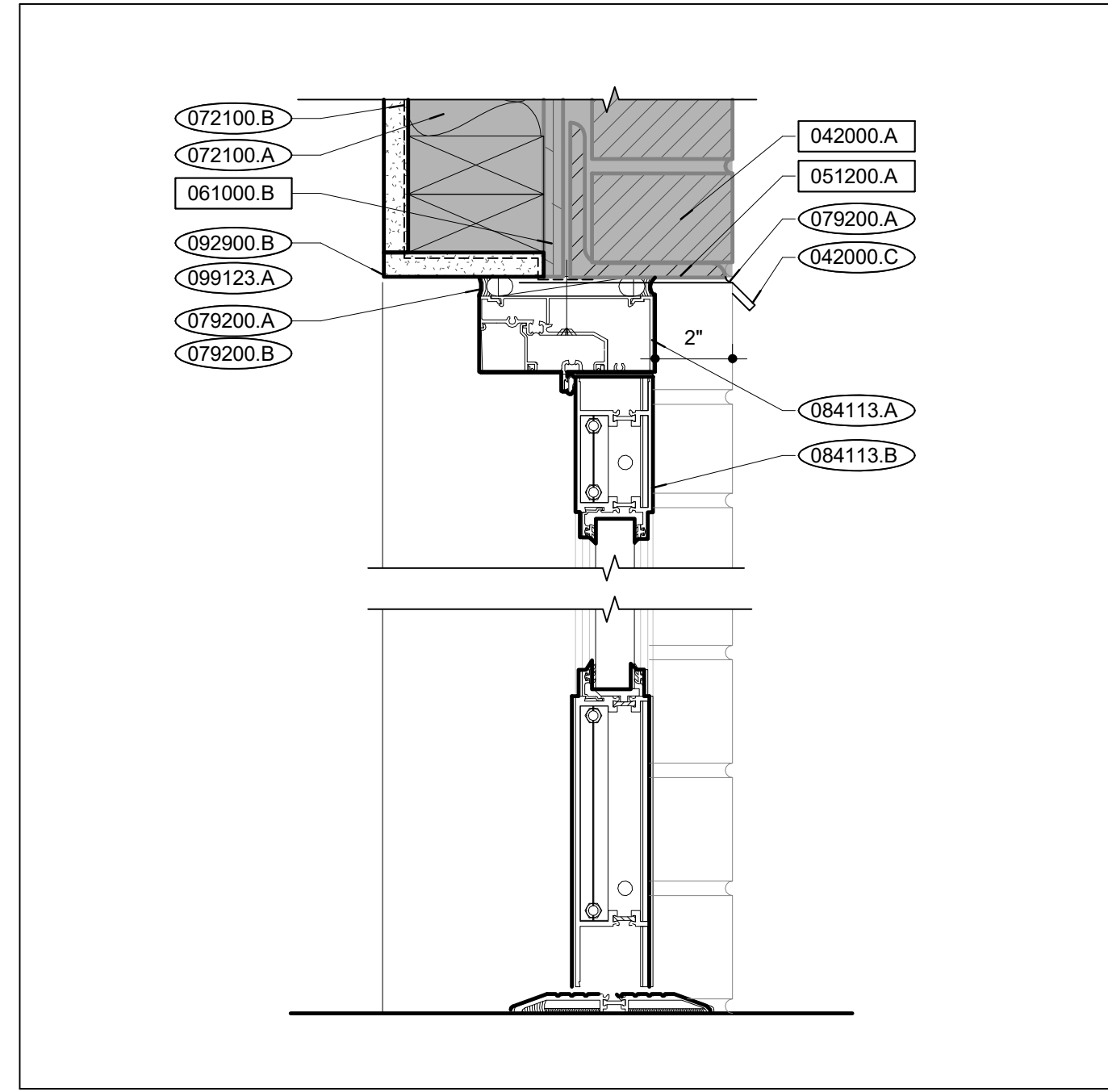
DOOR TYPES | X5
SCALE: 1/2" = 1'-0"



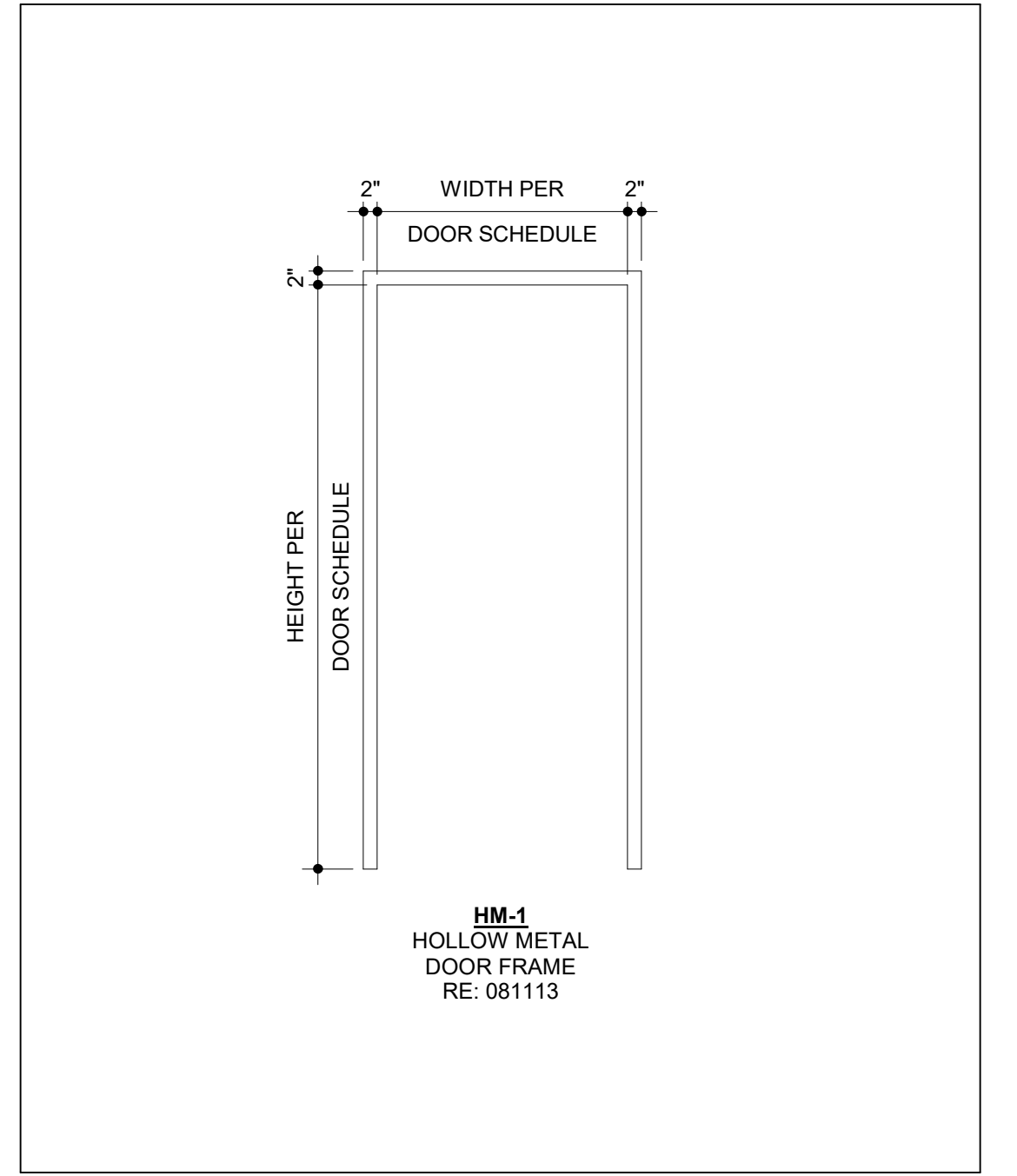
H.M. FRAME JAMB DETAIL | N30
SCALE: 3/4" = 1'-0"



H.M. FRAME HEAD DETAIL | N24
SCALE: 3/4" = 1'-0"



ALUMINUM FRAME HEAD DETAIL | N16
SCALE: 3/4" = 1'-0"



FRAME TYPES | N5
SCALE: 1/2" = 1'-0"

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PROJ. NO.: 221202
DESIGNED BY: AO, JL
DRAWN BY: AO, JL
CHECKED BY: JL, MA
APPROVED BY: MA

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DOOR SCHEDULE, TYPES, & DETAILS
A700

STOREFRONT SCHEDULE								
WINDOW NO.	ROOM NAME	WINDOW TYPE	FRAME FINISH	GLAZING TYPE	RATING	HEAD	JAMB	SILL
A100	LOBBY	01	HPOF	GL-2	--	U5/A710	B13/A710	P5/A710
A101	CLASSROOM	02	PT-1	GL-1	45	G31/A710	B23/A710	B31/A710
A102	MEETING	03	PT-1	GL-1	45	G31/A710	G23/A710	B31/A710
A106	CLASSROOM	04	PT-1	GL-1	45	G31/A710	G23/A710	B31/A710
C100	CORRIDOR	05	HPOF	GL-2	--	U5/A710	G5/A710	P5/A710
A109	OFFICE	06	HPOF	GL-2	--	U5/A710	B5/A710	P5/A710
A108	OFFICE	06	HPOF	GL-2	--	U5/A710	B5/A710	P5/A710

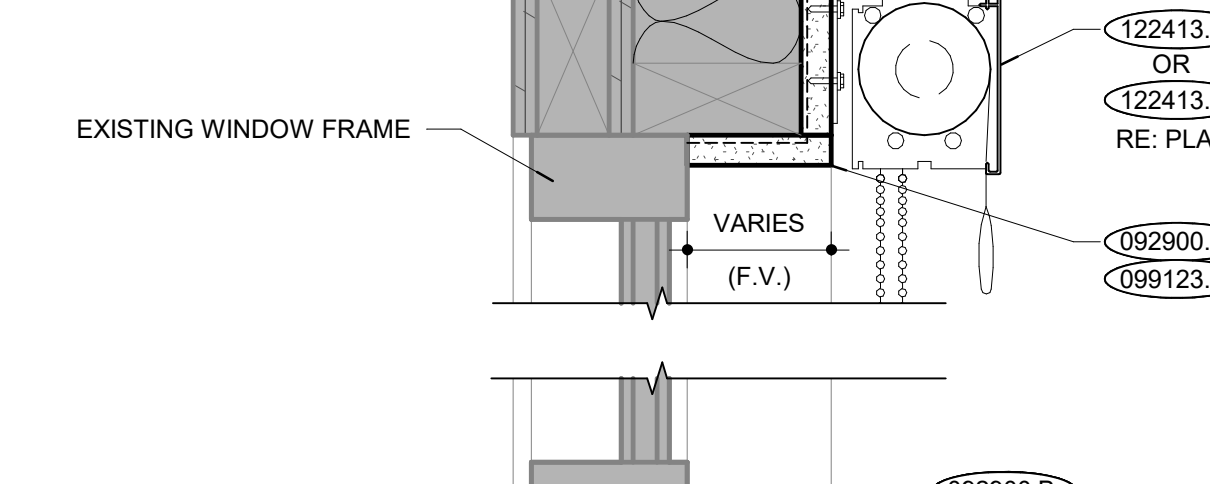
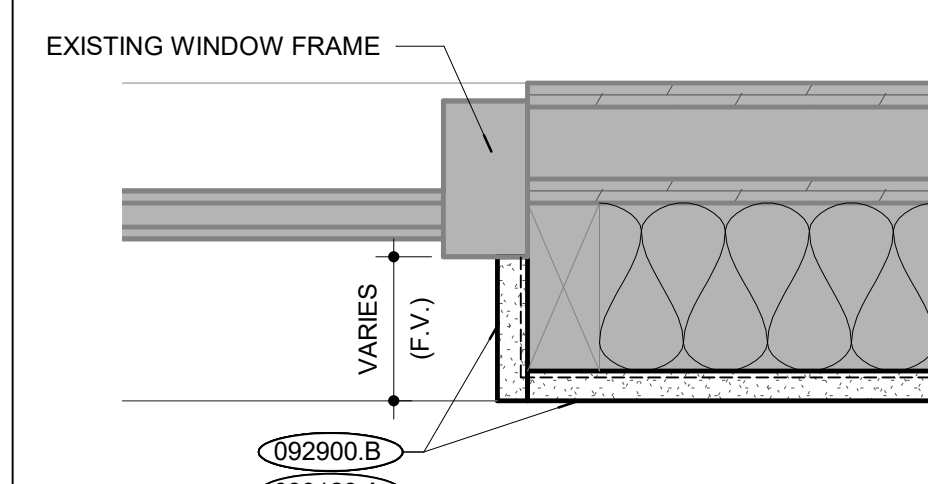
WINDOW FRAME FINISH	
HPOF	HIGH PERFORMANCE ORGANIC FINISH
PT	PAINT, RE: 099123

GLAZING TYPES:

GL-1 3/16" FIRE RATED MONOLITHIC CERAMIC CLEAR AND WIRELESS GLAZING
FIRE RATING: 45 MINUTES
SURFACE APPLIED-FILM LISTED FOR USE IN IMPACT SAFETY RATED GLAZING

GL-2 1" INSULATING GLASS UNIT - LOW-E
- 1/4" (6mm) LOW-E FULLY TEMPERED GLASS
- 1/2" ALUMINUM AIRSPACER
- 1/4" (6mm) CLEAR FULLY TEMPERED GLASS

SURFACE:
1- NONE
2- LOW-E COATING
3- NONE
4- NONE



EXISTING CONSTRUCTION 000000.X
NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE

DIVISION 04 MASONRY
042000.A FACE BRICK
042000.C S.S. DRIP EDGE

DIVISION 05 METALS
051200.A STEEL ANGLE

DIVISION 06 WOOD, PLASTICS + COMPOSITES
061600.A 1/2" EXTERIOR SHEATHING
061600.B 1/4" PLYWOOD UNDERLAYMENT
061600.C 3/4" PLYWOOD SUBFLOOR

DIVISION 07 THERMAL + MOISTURE PROTECTION
072100.A GLASS-FIBER THERMAL BATT INSULATION
072100.B VAPOR RETARDER
072726.A FLUID APPLIED, VAPOR-PERMEABLE AIR BARRIER
079200.A JOINT SEALANT
079200.B BACKER ROD

DIVISION 08 OPENINGS
081113.A HOLLOW METAL DOOR FRAME
081113.B GLASS STOPS
084113.A ALUMINUM STOREFRONT
084113.B ALUMINUM DOOR
084113.C ALUMINUM SILL FLASHING
088000.A GLAZING

DIVISION 09 FINISHES
092216.A 3-5/8" STL. STUD
092216.B ALUM. PARTITION CLOSURE
092216.C GASKET W/ADHESIVE BOTH SIDES
092900.A SOUND ATTENUATION BLANKETS
092900.B 5/8" GYPSUM BOARD
099123.A CARPET TILE
099123.A PAINT

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS
122413.A SINGLE ROLLER SHADE
122413.B DOUBLE ROLLER SHADE

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL

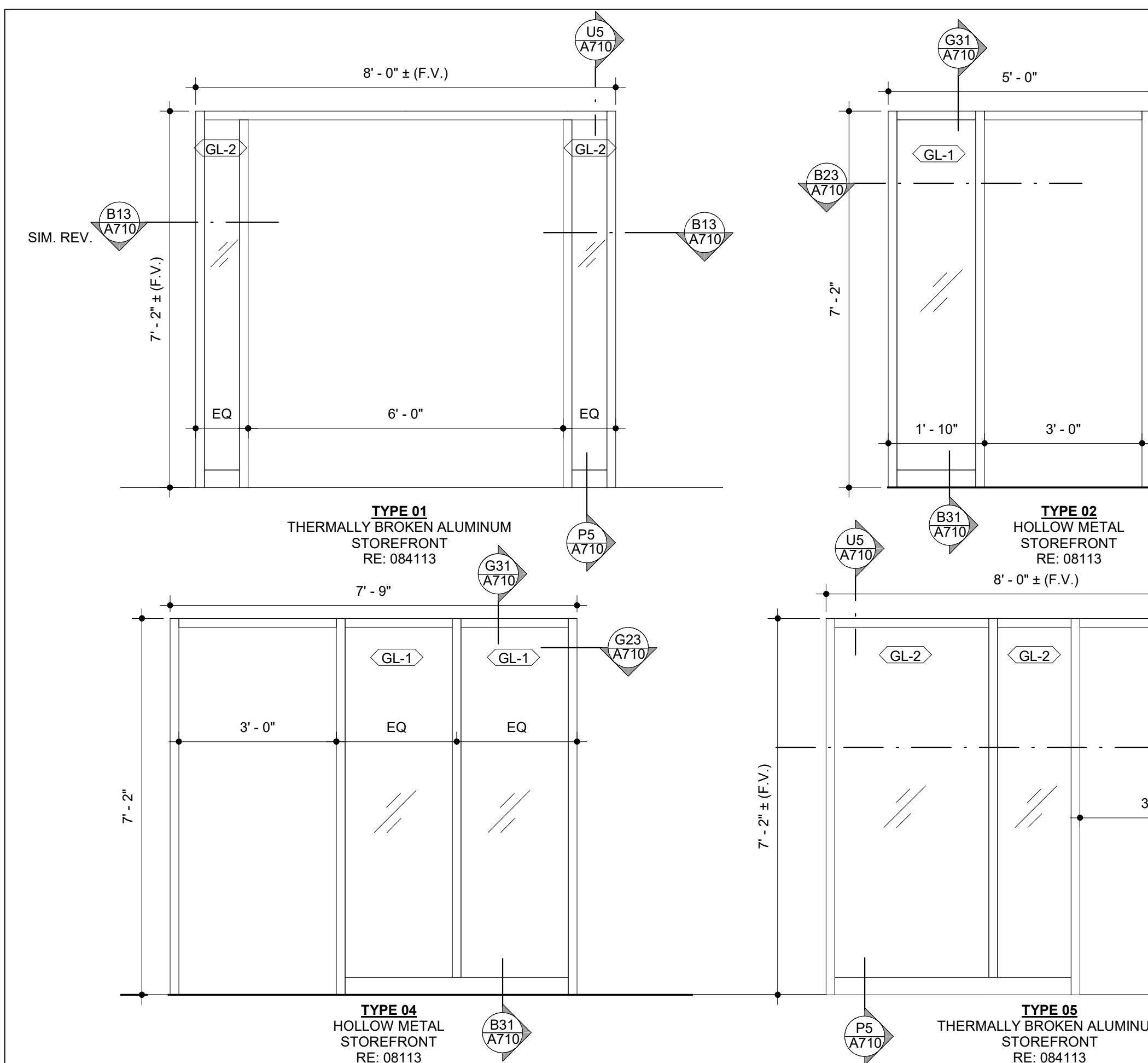
DIVISION 31 EARTHWORK

DIVISION 32 EXTERIOR IMPROVEMENTS

WINDOW SCHEDULE | AA19

WINDOW JAMB | AA13
SCALE: 3" = 1'-0"

WINDOW SILL | AA5
SCALE: 3" = 1'-0"

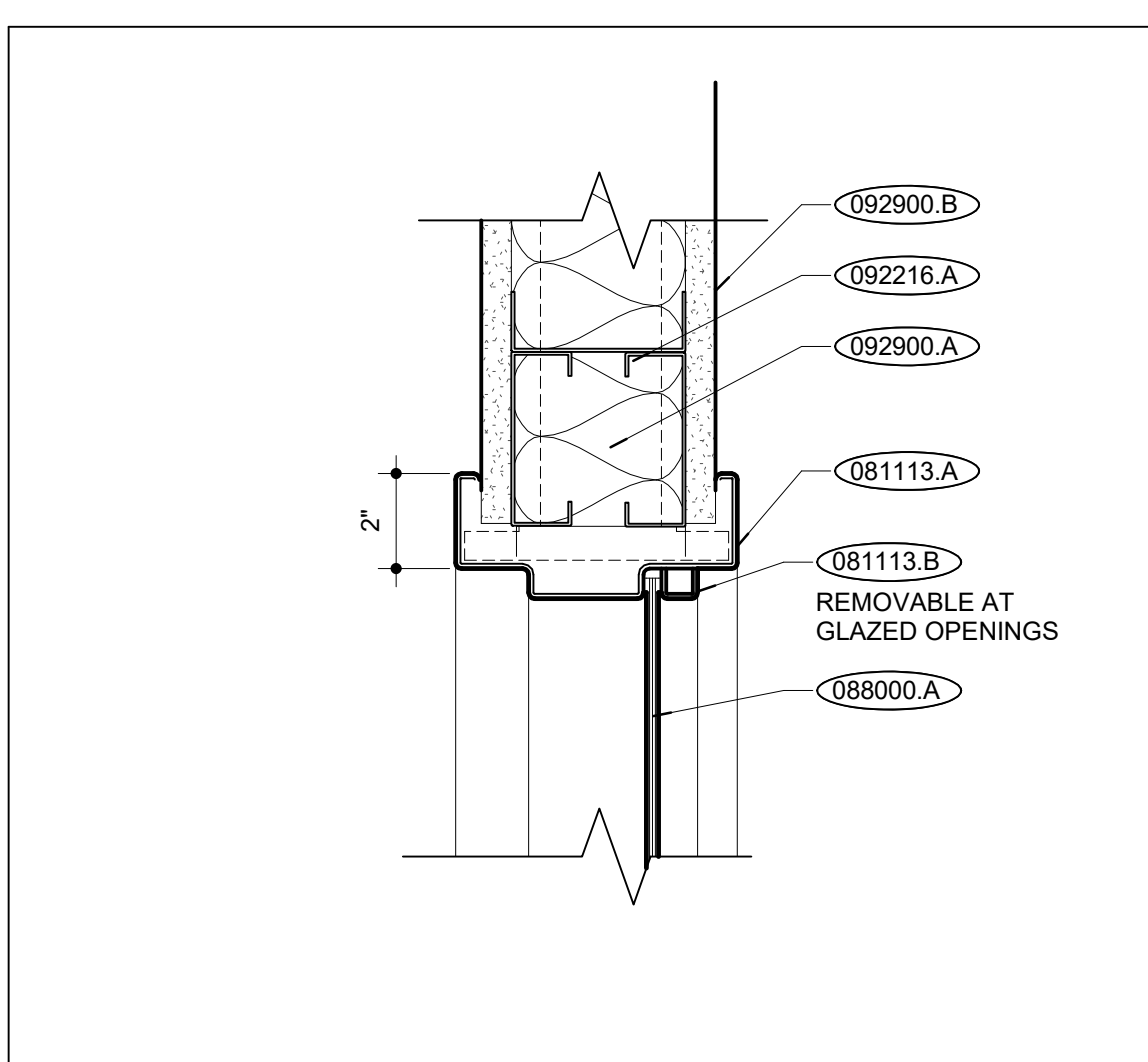


WINDOW TYPES | P13

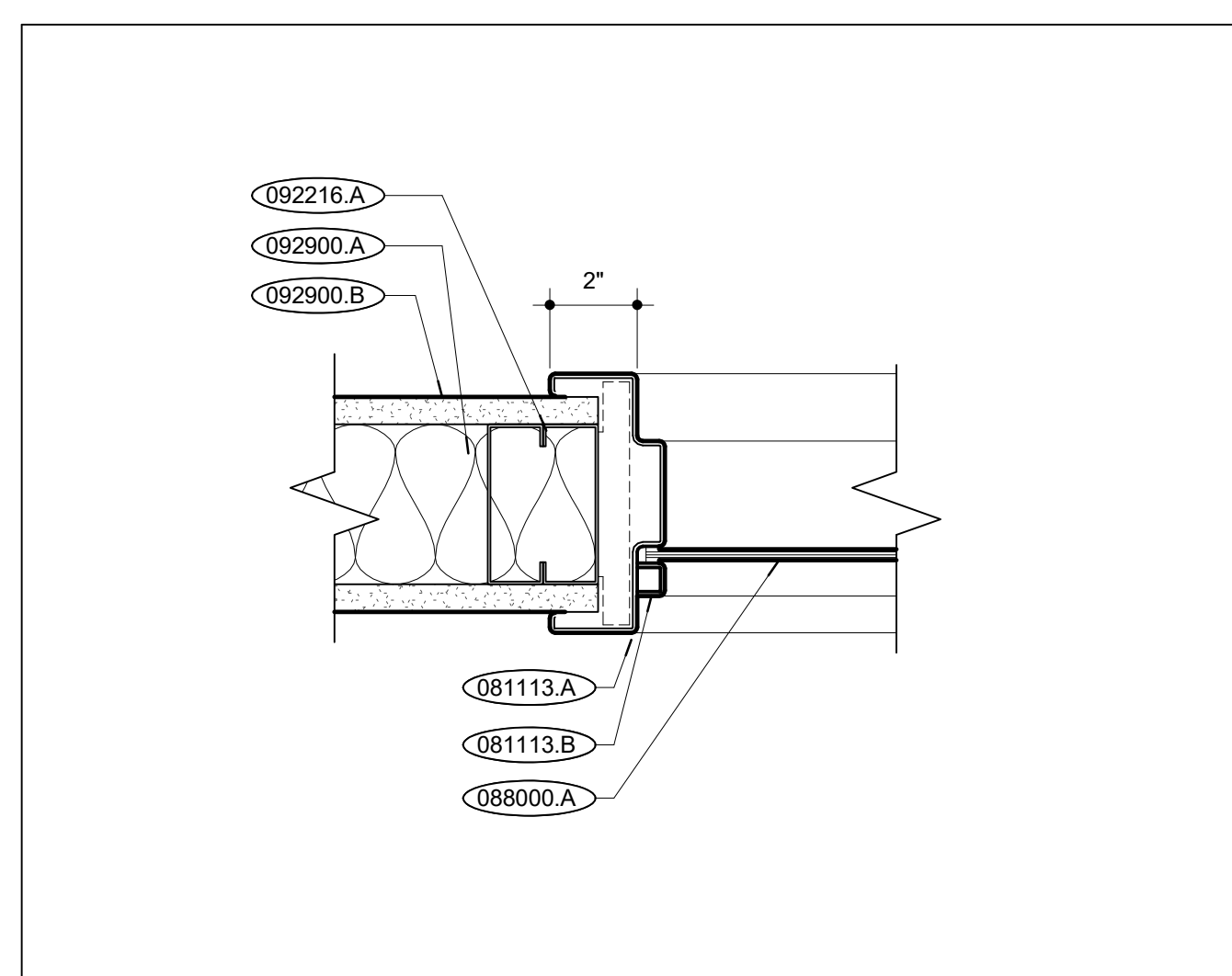
AL STOREFRONT HEAD | U5
SCALE: 3" = 1'-0"

AL STOREFRONT HEAD | U5
SCALE: 3" = 1'-0"

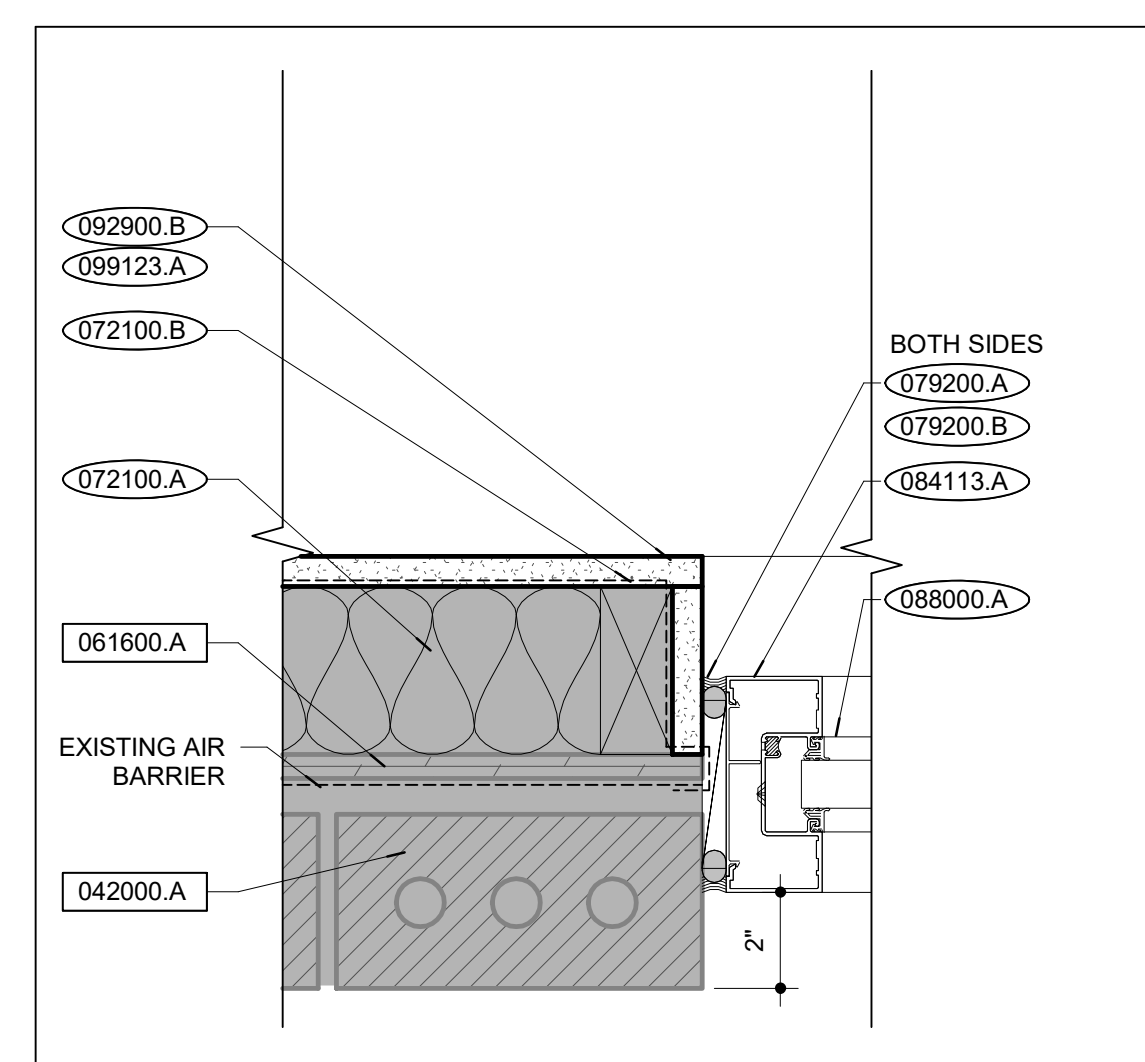
AL STOREFRONT SILL | P5
SCALE: 3" = 1'-0"



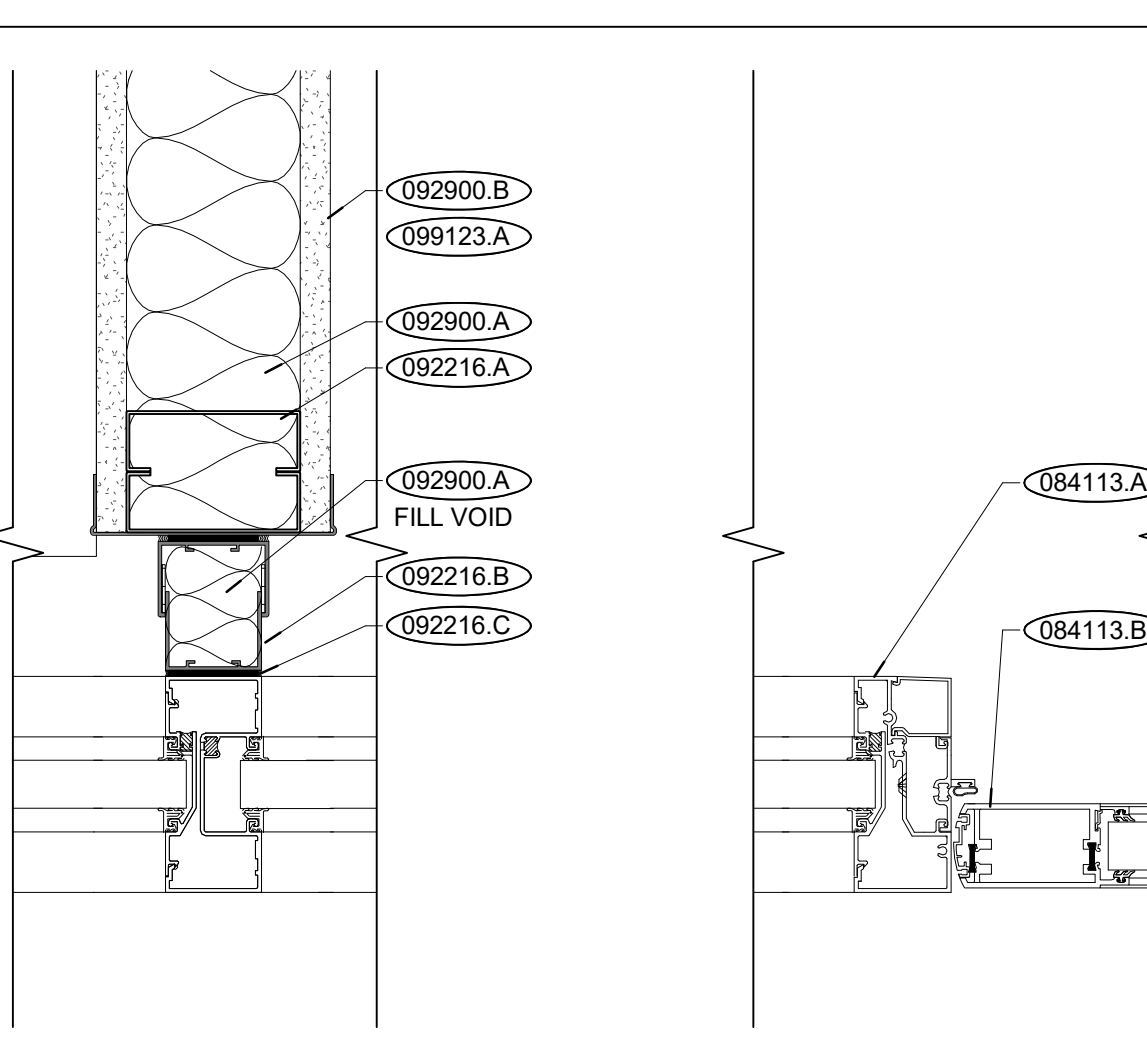
HM STOREFRONT HEAD | G31
SCALE: 3" = 1'-0"



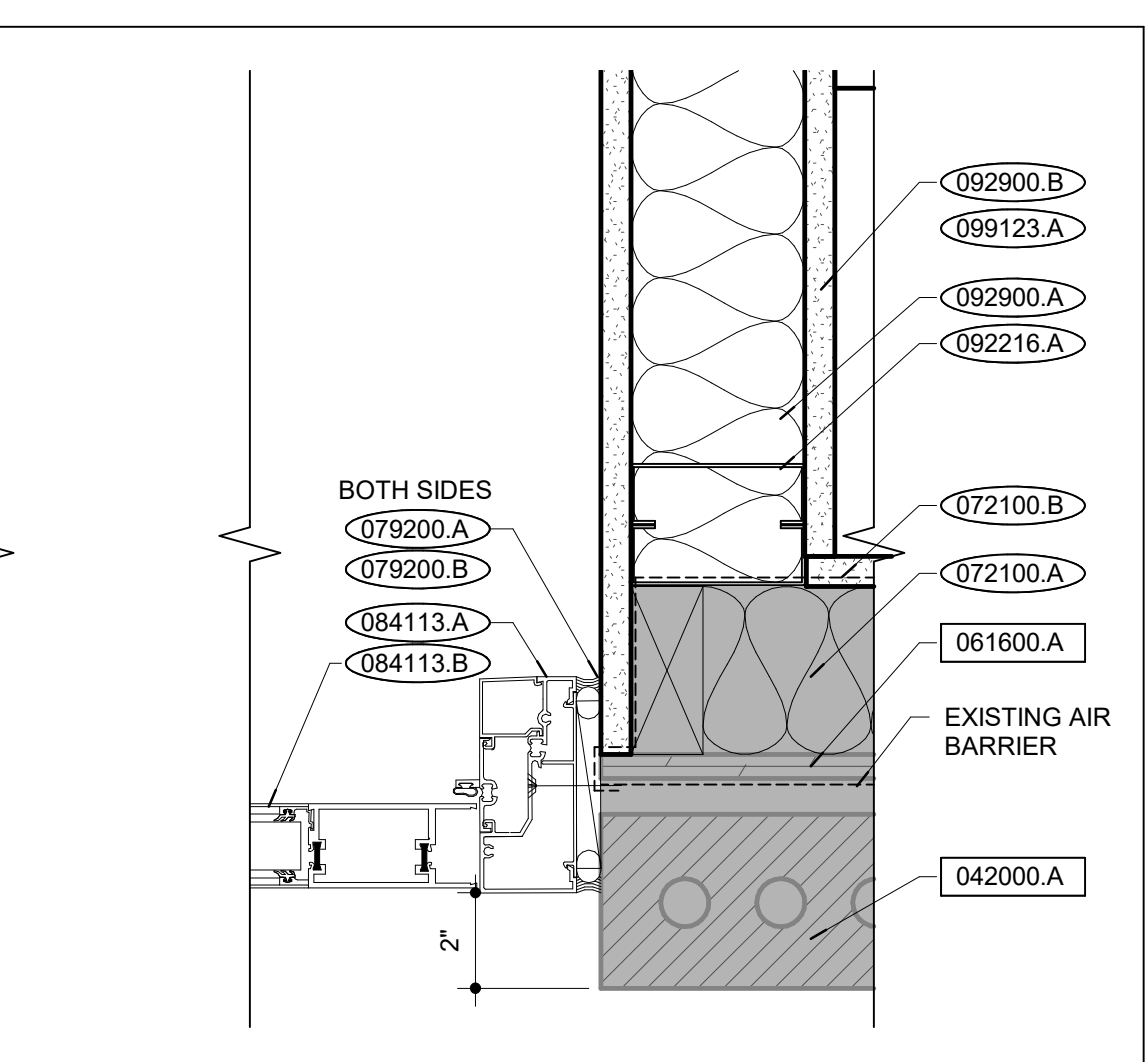
HM STOREFRONT JAMB | G23
SCALE: 3" = 1'-0"



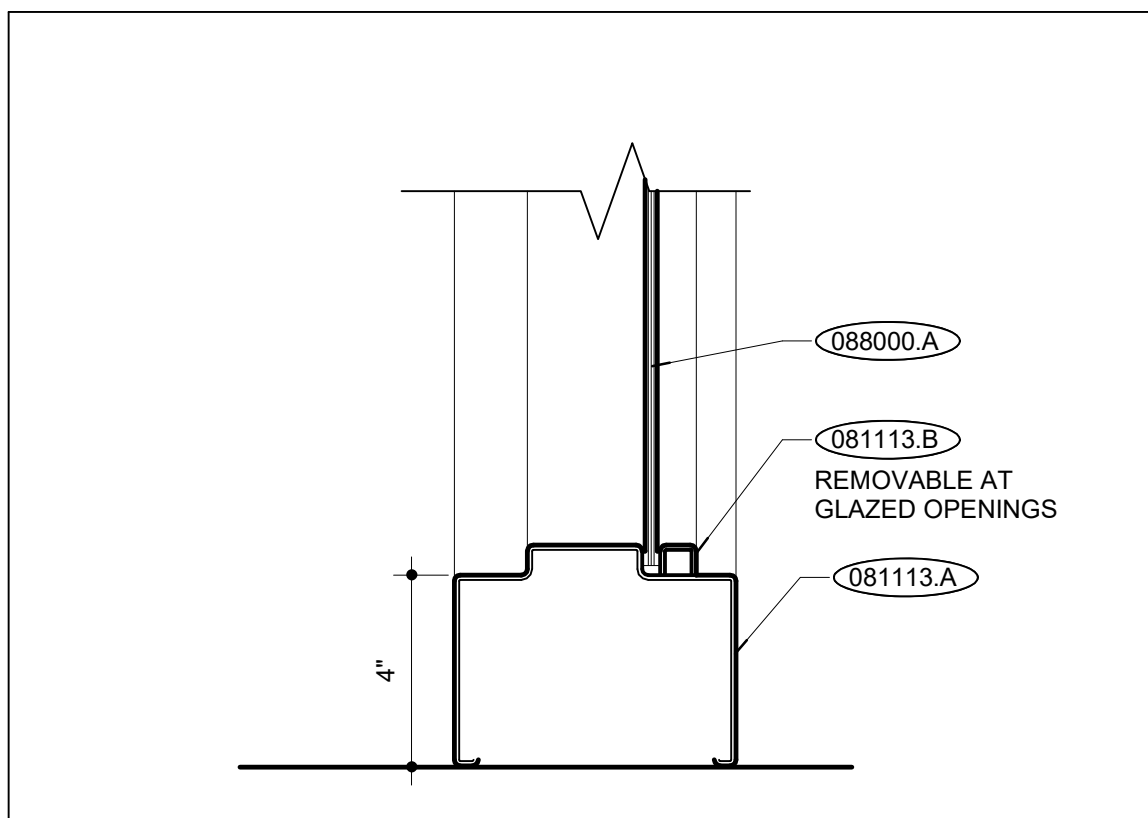
TYPE 01 JAMB DETAIL | B13
SCALE: 3" = 1'-0"



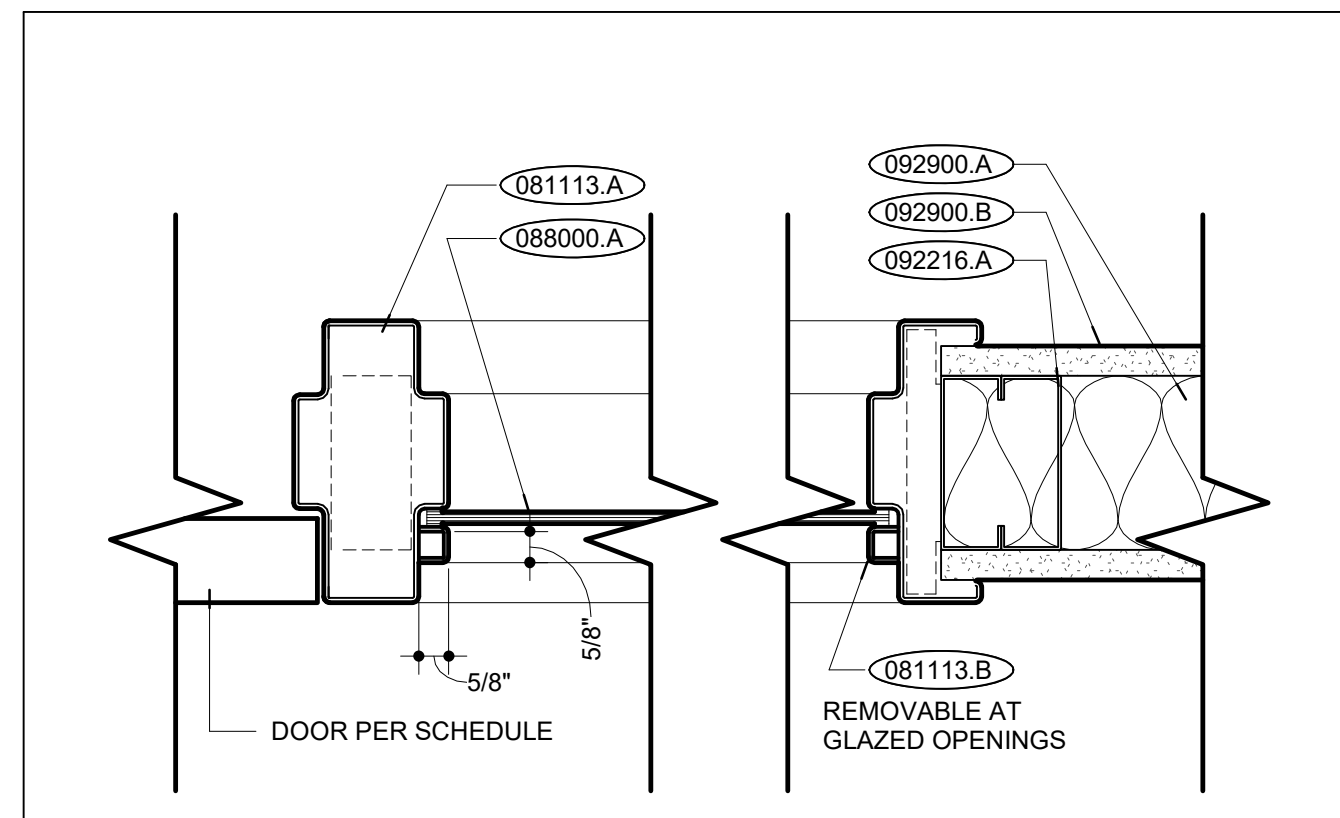
TYPE 06 JAMB DETAIL | B5
SCALE: 3" = 1'-0"



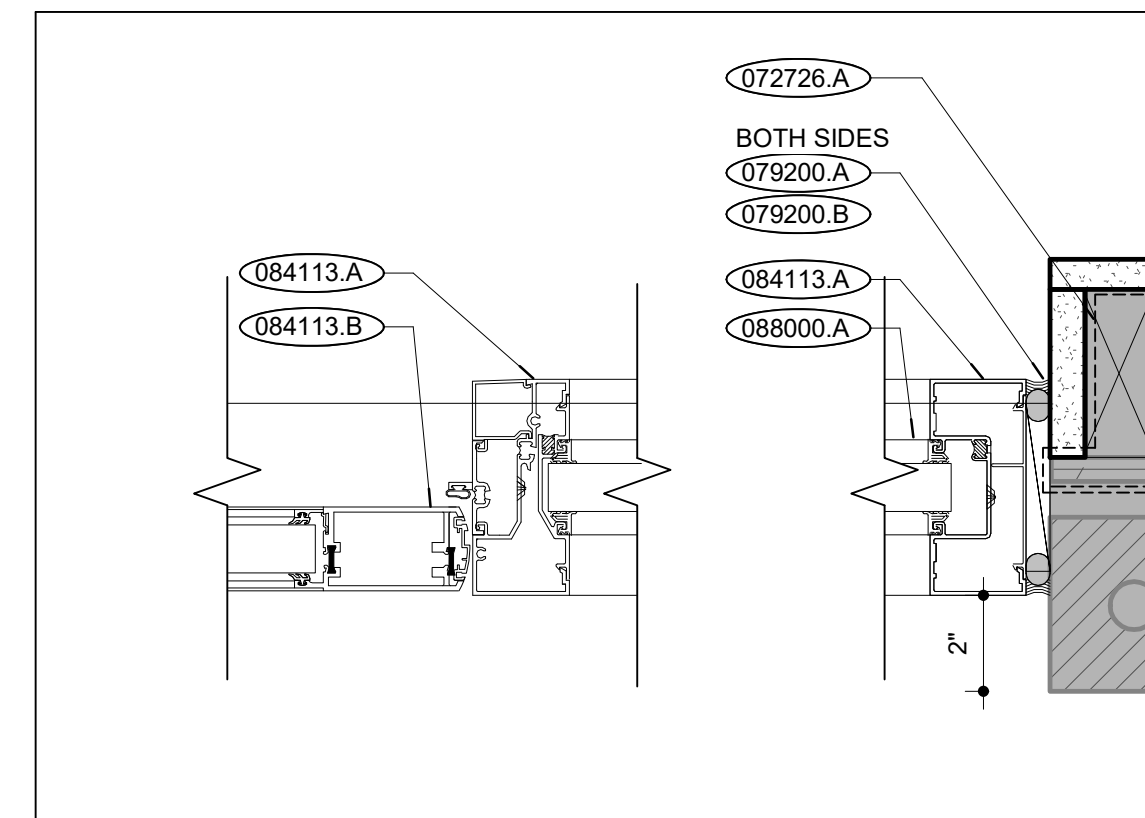
TYPE 06 JAMB DETAILS | G5
SCALE: 3" = 1'-0"



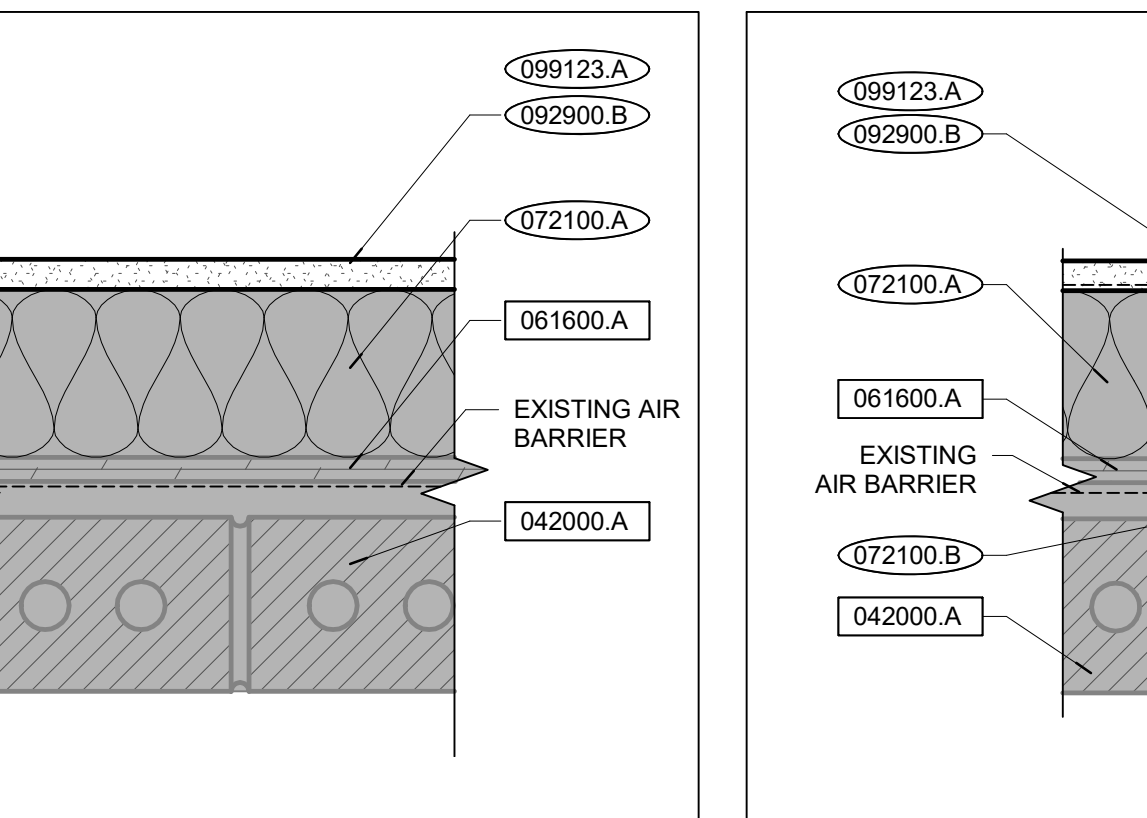
HM STOREFRONT SILL | B31
SCALE: 3" = 1'-0"



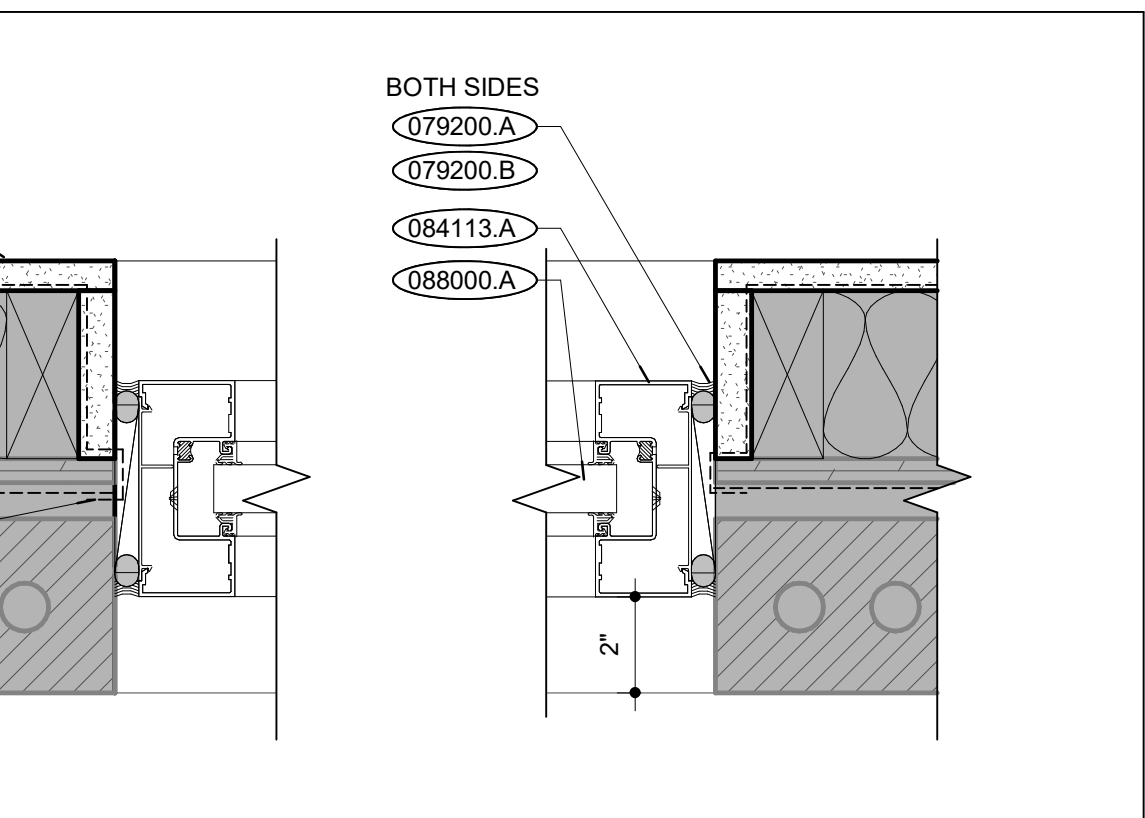
HM STOREFRONT - SIDELITE | B23
SCALE: 3" = 1'-0"



TYPE 01 JAMB DETAIL | B13
SCALE: 3" = 1'-0"



TYPE 06 JAMB DETAIL | B5
SCALE: 3" = 1'-0"



TYPE 06 JAMB DETAIL | B5
SCALE: 3" = 1'-0"

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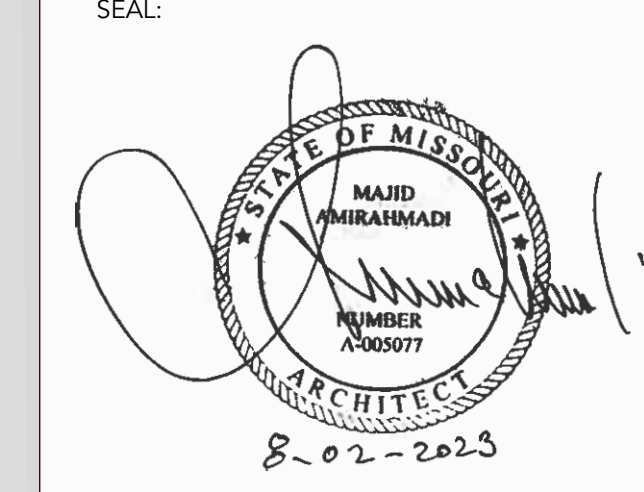
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JEFFERSON CITY, MO 65101

DATE: 08/02/2023
PROJ. NO.: 221202
DESIGNED BY: AO, JL
DRAWN BY: AO, JL
CHECKED BY: JL, MA
APPROVED BY: MA



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0	ISSUED FOR BID	08/02/2023

WINDOW SCHEDULE, TYPES, & DETAILS

A710

GENERAL MECHANICAL SYMBOLS	EQUIPMENT	ABBREVIATIONS
<p>REVISION NUMBER - SHOWN ON PLANS</p> <p>POINT WHERE NEW CONNECTS TO EXISTING OR EXISTING SEPARATES FROM DEMOLISHED</p> <p>DETAIL NUMBER ON SHEET SHEET NUMBER WHERE DETAIL APPEARS</p> <p>KEYNOTE</p> <p>CONTINUATION SYMBOL</p> <p>ITEMS TO BE DEMOLISHED</p> <p>PIPING TO BE DEMOLISHED</p> <p>AREA NOT IN CONTRACT</p> <p>PIPE SIZE/SYSTEM TAG (DIAMETER)</p> <p>ABOVE GROUND PIPING</p> <p>PIPE SLOPE TAG (STEAM PIPING)</p> <p>EXISTING PIPE TAG</p> <p>SQUARE DUCT/SYSTEM TAG (WIDTH X HEIGHT)</p> <p>OVAL DUCT/SYSTEM TAG (WIDTH / HEIGHT)</p> <p>ROUND DUCT/SYSTEM TAG (DIAMETER)</p> <p>RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE</p> <p>ROUND SUPPLY/OUTSIDE AIR DUCT RISE</p> <p>RECTANGULAR RETURN/TRANSFER AIR DUCT RISE</p> <p>ROUND RETURN/TRANSFER AIR DUCT RISE</p> <p>RECTANGULAR EXHAUST DUCT AIR DUCT RISE</p> <p>ROUND EXHAUST DUCT AIR DUCT RISE</p> <p>GRILLES, REGISTERS & DIFFUSERS TAG</p> <p>AIR DEVICE</p>	<p>1. EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY APPROVED BY OSHA.</p> <p>2. INSTALL EQUIPMENT WHILE MAINTAINING CLEARANCES AS RECOMMENDED BY MANUFACTURER AND REQUIRED BY APPLICABLE CODES AND STANDARDS.</p> <p>3. PROVIDE CONNECTIONS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPLICABLE CODES AND STANDARDS. COORDINATE CONNECTION REQUIREMENTS FOR FINAL EQUIPMENT SELECTIONS WITH OTHER AFFECTED TRADES.</p> <p>4. VERIFY FINAL CONNECTION SIZES WITH OWNER PROVIDED EQUIPMENT AND PROVIDE REQUIRED ISOLATION VALVES, CHECK VALVES, UNIONS, GAUGES, AND SO FORTH FOR A COMPLETE INSTALLATION.</p> <p>5. PROVIDE ENGRAVED PLASTIC LAMINATE NAMEPLATES ON ALL [AFFECTED] NEW [AND EXISTING] EQUIPMENT, SURVEY BUILDING TO ENSURE THAT NAMES ARE UNIQUE AND CONSISTENT WITH EXISTING CONVENTIONS.</p> <p>6. KITCHEN HOOD EXHAUST SYSTEM</p> <p>6.1. ACCUREX IS THE BASIS OF DESIGN.</p> <p>6.2. CAPTIVEAIRE IS AN ALTERNATE.</p>	<p>Ø DIAMETER</p> <p>A AMP</p> <p>ABV ABOVE</p> <p>AC AIR CONDITIONING</p> <p>ACHR AIR CHANGES PER HOUR</p> <p>ADD ADDENDUM</p> <p>AF ABOVE FINISHED FLOOR</p> <p>AFUE ANNUAL FUEL UTILIZATION EFFICIENCY</p> <p>ALT ALTERNATE</p> <p>AP ACCESS PANEL</p> <p>ARCH ARCHITECT/ARCHITECTURAL</p> <p>BFF BELOW FINISHED FLOOR</p> <p>BHP BRAKE HORSE POWER</p> <p>BLW BELOW</p> <p>BTU BRITISH THERMAL UNITS</p> <p>BTUH BRITISH THERMAL UNITS PER HOUR</p> <p>CAP CAPACITY</p> <p>CD CEILING DIFFUSER</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>CIG CEILING</p> <p>CONT CONTINUED</p> <p>CRD CEILING RADIATION DAMPER</p> <p>D DEGREE</p> <p>DB DRY BULB</p> <p>DIA DIAMETER</p> <p>DIDW DOUBLE INLET DOUBLE WIDTH</p> <p>DN DOWN</p> <p>DX DIRECT EXPANSION DRAWING</p> <p>EA EACH EXHAUST AIR</p> <p>E/A ENTERING AIR TEMPERATURE</p> <p>EFF EFFICIENCY</p> <p>ELEC ELECTRICAL EQUIPMENT</p> <p>EX EXHAUST REGISTER</p> <p>ESP EXTERNAL STATIC PRESSURE</p> <p>EWT ENTERING WATER TEMPERATURE</p> <p>EXIST EXISTING</p> <p>FC DEGREES FAHRENHEIT</p> <p>FD FORWARD CURVED FLOOR DAMPER</p> <p>FL FLOOR</p> <p>PFM FEET PER MINUTE</p> <p>FT FOOT, FEET</p> <p>FTHD FEET OF HEAD</p> <p>FTR FIN TUBE RADIATION</p> <p>FTWG FEET OF HEAD WATER GAUGE</p> <p>GA GAUGE</p> <p>GAL GALLON</p> <p>GALV GALVANIZED</p> <p>GC GENERAL CONTRACTOR</p> <p>GPM GALLONS PER MINUTE</p> <p>HP HORSE POWER</p> <p>HT HEIGHT</p> <p>HTG HEATING</p> <p>HTR HEATER</p> <p>HUM HUMIDITY</p> <p>HWS HEATING WATER SUPPLY</p> <p>HWR HEATING WATER RETURN</p> <p>HZ HERTZ</p> <p>IN INCH</p> <p>INWC INCHES WATER COLUMN</p> <p>KW KILOWATT</p> <p>LAT LEAVING AIR TEMPERATURE</p> <p>LB POUND</p> <p>LBHR POUNDS PER HOUR</p> <p>LP LOW PRESSURE</p> <p>LVR LOWER</p> <p>LWT LEAVING WATER TEMPERATURE</p> <p>MIA MIXED AIR</p> <p>MAX MAXIMUM</p> <p>MBH ONE THOUSAND BTU PER HOUR</p> <p>MCF ONE THOUSAND CUBIC FEET</p> <p>MD MOTORIZED DAMPER</p> <p>MECH MECHANICAL</p> <p>MFR MANUFACTURER</p> <p>MIN MINIMUM</p> <p>MISC MISCELLANEOUS</p> <p>MTD MOUNTED</p> <p>MTR MOTOR</p> <p>MUA MAKE-UP AIR</p> <p>NC NOISE CRITERIA</p> <p>N.C. NORMALLY CLOSED</p> <p>NIC NOT IN CONTRACT</p> <p>NO NUMBER</p> <p>N.O. NORMALLY OPEN</p> <p>NTS NOT TO SCALE</p> <p>O/A OUTSIDE AIR</p> <p>OPER OPERATOR</p> <p>PD PRESSURE DROP</p> <p>PRESS PRESSURE</p> <p>PSIG POUNDS PER SQUARE INCH</p> <p>PWR GAUGE POWER</p> <p>R/A RETURN AIR</p> <p>RCF RADIAN CEILING PANEL</p> <p>REC RECESSED</p> <p>REV REVISION</p> <p>RG RETURN GRILLE</p> <p>RH RELATIVE HUMIDITY</p> <p>R/A RELIEF AIR</p> <p>RM ROOM</p> <p>RPM REVOLUTIONS PER MINUTE</p> <p>SIA SUPPLY AIR</p> <p>SF SQUARE FOOT</p> <p>SM SMOKE DAMPER</p> <p>SM SURFACE MOUNT</p> <p>SP STATIC PRESSURE</p> <p>SPEC SPECIFICATION</p> <p>SR SUPPLY REGISTER</p> <p>STD STANDARD</p> <p>T THERMOSTAT</p> <p>T/A TRANSFER AIR</p> <p>TD TEMPERATURE DROP</p> <p>TEMP TEMPERATURE</p> <p>TYP TYPICAL</p> <p>VAC VACUUM</p> <p>VARIABLE AIR VOLUME</p> <p>VENT VENTILATION</p> <p>VFD VARIABLE FREQUENCY DRIVE</p> <p>V VOLTAGE</p> <p>W WITH</p> <p>WO WITHOUT</p> <p>WB WET BULB</p> <p>ZD ZONE DAMPER</p>
	<p>CONTROL WIRING SPECIFICATIONS</p> <p>1. ELECTRICAL WIRING AND WIRING CONNECTIONS NEEDED FOR THE INSTALLATION OF MECHANICAL SYSTEMS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE INDICATED.</p> <p>2. INSTALL CONTROL WIRINGS, WITHOUT SPLICES BETWEEN TERMINAL POINTS, COLOR CODED, INSTALL IN NEAT, WORKMANLIKE MANNER, SECURELY FASTENED, INSTALL IN ACCORDANCE WITH APPLICABLE NATIONAL ELECTRICAL CODE EDITION AND THE ELECTRICAL SPECIFICATIONS.</p> <p>3. INSTALL VOLTAGE CIRCUITS LOCATED IN CONCRETE SLAB AND MASONRY WALLS, OR EXPOSED IN OCCUPIED AREAS, IN ELECTRICAL CONDUIT. ALL WIRING IN AREAS NOT USED FOR AIR MOVEMENT SHALL BE IN ELECTRIC METALLIC TUBING EXCEPT LOW VOLTAGE WIRING MAY BE IN APPROVED SIGNAL CABLE WHERE APPROVED BY LOCAL CODES.</p>	
	<p>TESTING, BALANCE AND ADJUSTMENT</p> <p>1. DUCTWORK AND PIPING SHALL BE BALANCED BY QUALIFIED PERSONNEL WHO HAVE PREVIOUS EXPERIENCE WITH BALANCING PROCEDURES AND ARE FAMILIAR WITH TESTING AND BALANCING PROCEDURES OF THE ASSOCIATED AIR BALANCE COUNCIL (AASCO) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). CERTIFIED TAG PROFESSIONAL IS NOT REQUIRED.</p> <p>2. BALANCING SHALL INCLUDE THE BALANCING OF THE EQUIPMENT AND AIR DISTRIBUTION SYSTEMS TO PROVIDE DESIGN QUANTITIES INDICATED AND VERIFICATIONS OF PERFORMANCE OF ALL EQUIPMENT AND AUTOMATIC CONTROLS.</p>	
	<p>MECHANICAL SPECIFICATIONS</p> <p>1. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE MECHANICAL SYSTEMS INDICATED.</p> <p>2. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.</p> <p>3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATION SO THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.</p> <p>4. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS NECESSARY TO INSTALL ALL NEW MECHANICAL SYSTEMS WITHIN THE CONFINES OF THE SPACES AVAILABLE AND WITHOUT INTERFERENCES.</p> <p>5. PLANS ARE INTENDED TO INDICATE THE GENERAL SCOPE OF WORK. DETAILS OF INSTALLATION COVERED BY CODE AND OTHER MINOR ITEMS NOT SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND ACCEPTABLE INDUSTRY STANDARDS. ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL SITE VERIFY EXISTING CONDITIONS.</p> <p>6. DURING CONSTRUCTION, ALL EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERINGS SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.</p> <p>7. PROVIDE ALL CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NEEDED TO INSTALL MECHANICAL SYSTEMS. PATCHING WORK SHALL INCLUDE METHODS AND MATERIALS NEEDED FOR AFFECTED SURFACES TO MATCH ADJACENT AREAS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS WEATHER-TIGHT.</p> <p>8. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT ROOF WARRANTY WILL BE MAINTAINED.</p> <p>9. FIELD SUPPORT ALL MECHANICAL SYSTEM EQUIPMENT AND MATERIALS FROM STRUCTURE.</p> <p>10. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.</p> <p>11. OPERATION AND MAINTENANCE MANUALS: A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING, DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTATIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT. B. ALL LITERATURE AND INSTRUCTION SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS. C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC. 1</p> <p>12. MANUFACTURER'S MODEL NUMBERS, ETC. INDICATES OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUCTED AS LIMITING COMPETITION, ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE. SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.</p> <p>13. CONDENSATE DRAIN PIPING TO BE FIELD ROUTED TO NEAREST DRAIN RECEPTACLE. REFER TO PLUMBING SHEETS FOR WASTE/VENT PIPING AND LOCATIONS.</p> <p>14. MECHANICAL PIPING: A. SOME PIPING MAY HAVE BEEN SHOWN OFFSET FOR CLARITY. B. PROVIDE OFFSETS AND TRANSITIONS AS NECESSARY TO AVOID OBSTRUCTIONS. C. FIELD VERIFY EXACT ROUTING OF PIPING. MOUNT PIPING FROM STRUCTURE ABOVE AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE. ROUTE PIPING PARALLEL TO BUILDING LINES. D. USE CLEVIS-STYLE HANGERS TO SUPPORT PIPING EVERY 6'-0" WITH INSULATION PROTECTION SHIELDS AND ALL-TREAD RODS FROM STRUCTURE ABOVE. NOT FROM OTHER PIPING, DUCTWORK, CONDUIT, AND SO FORTH. DO NOT SUPPORT OTHER PIPING, CEILING GRID, DUCTWORK, CONDUIT, AND SO FORTH FROM PIPING. E. PROVIDE DIELECTRIC CONNECTIONS BETWEEN FERROUS AND NONFERROUS PIPING. F. PROPERLY DISPOSE OF ALL REFRIGERANT IN ACCORDANCE WITH EPA 61 CFR 62.</p>	<p>ABBREVIATIONS - CONTROLS</p> <p>AI ANALOG INPUT</p> <p>AO ANALOG OUTPUT</p> <p>AR ANALOG REGISTER</p> <p>BI BINARY INPUT</p> <p>BO BINARY OUTPUT</p> <p>CALC CALCULATION</p> <p>CD CARBON DIOXIDE</p> <p>CTRL CONTROL</p> <p>DA DISCHARGE AIR</p> <p>DDC DIRECT DIGITAL CONTROL</p> <p>DIFF DIFFERENTIAL</p> <p>DO DIGITAL OUTPUT</p> <p>EC ELECTRONICALLY COMMUTATED</p> <p>ENTH ENTHALPY</p> <p>FLA FULL LOAD AMPS</p> <p>HR HEATING WATER RETURN</p> <p>HS HEATING WATER SUPPLY</p> <p>HW HEATING WATER</p> <p>P PUMP</p> <p>PA PRIMARY AIR</p> <p>PH PHASE</p> <p>PID PROPORTIONAL-INTEGRAL-DERIVATIVE</p> <p>POT POTENTIOMETER</p>
	<p>GENERAL FIRE PROTECTION NOTES</p> <p>1. ALL WORK & MATERIALS SHALL BE IN COMPLIANCE WITH STATE & LOCAL CODE REQUIREMENTS. SUBCONTRACTOR SHALL OBTAIN & PAY FOR ALL PERMITS & INSPECTION FEES AS NECESSARY FOR CONSTRUCTION.</p> <p>2. ALL FIRE PROTECTION SYSTEMS & COMPONENTS SHALL BE IN COMPLIANCE WITH NFPA SECTIONS 13, & 24 AS WELL AS LOCAL FIRE PREVENTION REQUIREMENTS.</p> <p>3. FIRE SPRINKLER CONTRACTOR SHALL VERIFY WITH CURRENT NFPA THE SPRINKLER HEAD SPACING & DENSITY FOR ALL OCCUPANCY TYPES.</p> <p>4. SUBCONTRACTOR SHALL DO ALL NECESSARY CUTTING & PATCHING, AS WELL AS ALL NECESSARY PIPE & EQUIPMENT SUPPORTS.</p> <p>5. PRESSURE TEST MODIFICATIONS TO EXISTING SYSTEM & REPAIR ANY LEAKS. SUBCONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO PROPERTY & PERSONNEL CAUSED BY FAULTY INSTALLATION OR MATERIALS.</p> <p>6. THE SPRINKLER SUBCONTRACTOR SHALL REFER TO PLANS & MAKE ADJUSTMENTS TO NUMBER, TYPE, & LOCATION OF HEADS, TO COMPLY WITH LOCAL CODES & NEW CONSTRUCTION. HE SHALL ALSO COORDINATE HIS FINAL SHOP DRAWINGS WITH THE OTHER TRADES TO AVOID CONFLICT WITH HIS PIPING & THE LIGHTS, PIPING, CONDUITS, & DUCTWORK OF OTHER RESPECTIVE SUBCONTRACTORS ON THIS PROJECT. SHOP DRAWINGS & APPLICABLE HYDRULIC CALCULATIONS THAT ARE SEALED BY A FIRE PROTECTION CONSULTANT & PROFESSIONAL ENGINEER SHALL BE SUBMITTED FOR OWNER'S APPROVAL FOR ALL SPRINKLER SYSTEM MODIFICATIONS.</p> <p>7. AS REQUIRED, FIRE STOPPING SHALL BE DONE BY METHODS REQUIRED BY LOCAL AUTHORITIES. FIRE STOP MATERIALS SHALL BE HILTI SILICONE ELASTOMER OR EQUAL.</p> <p>8. PROVIDE FIRE STOPPING AT ALL FLOOR & WALL PENETRATIONS.</p> <p>9. SUBMIT CERTIFICATION UPON COMPLETION OF FIRE PROTECTION PIPING WORK WHICH INDICATES THAT WORK HAS BEEN TESTED IN ACCORDANCE WITH NFPA 13, AND ALSO THAT THE SYSTEM IS OPERATIONAL, COMPLETE, AND WITHOUT DEFECTS.</p> <p>10. PROVIDE REQUIRED UNDERGROUND WATER SERVICE LINE AT THE LOCATION(S) INDICATED ON THE DRAWING. CONSULT WITH THE CITY WATER DEPARTMENT AND LOCAL AUTHORITIES WITH RESPECT TO NECESSARY MATERIALS AND LABOR TO CONFORM WITH ALL LOCAL REQUIREMENTS.</p> <p>11. PROVIDE FIRE DEPARTMENT CONNECTION THROUGH EXTERIOR BUILDING WALL WHERE SHOWN ON THE PLANS. COORDINATE THE EXACT LOCATION, PIPE THREADS AND FITTINGS WITH THE LOCAL FIRE DEPARTMENT TO ENSURE EXACT MATCH.</p> <p>12. SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE APPROPRIATE FOR THE AMBIENT CONDITIONS IN THE IMMEDIATE AREAS.</p> <p>13. INSTALL HANGERS AND SUPPORTS FOR SPRINKLER PIPING ACCORDING TO NFPA 13. COMPLY WITH REQUIREMENTS FOR HANGER MATERIALS IN NFPA 13.</p>	
<p>GENERAL SPECIFICATIONS</p> <p>1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES.</p> <p>2. ALL MATERIALS SHALL BE NEW, FIRST CLASS, AND INSTALLED TO MANUFACTURER'S WRITTEN SPECIFICATIONS.</p> <p>3. ALL SYSTEMS SHALL BE COMPLETE AND OPERABLE IN EVERY WAY.</p> <p>4. GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM FINAL ACCEPTANCE. PROVIDE FIVE YEAR AIR CONDITIONING COMPRESSOR WARRANTY.</p> <p>5. INSPECT JOB SITE PRIOR TO BIDDING TO DETERMINE EXACT JOB REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS.</p> <p>6. ARCHITECTURAL DRAWING DIMENSIONS SHALL GOVERN IN ALL CASES. COORDINATE ENGINEERING DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR ALL EQUIPMENT LAYOUTS AND LOCATIONS.</p> <p>7. LAYOUTS AND ROUTINGS SHOWN ON THE PLANS ARE APPROXIMATE AND GENERAL IN NATURE.</p> <p>8. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND UNDERSTANDING ALL DRAWINGS AND ASPECTS OF THE PROJECT SCOPE, AND FOR INCLUDING IN HIS BID ALL WORK ASSOCIATED WITH HIS TRADE, REGARDLESS OF WHICH DRAWING OR SHEET IT IS SHOWN ON.</p> <p>9. COORDINATE WORK WITH ALL OTHER TRADES. EACH SUBCONTRACTOR SHALL REVIEW ENTIRE DRAWING SET AND AVOID CONFLICTS WITH OTHER TRADES.</p> <p>10. REPRESENTATIVES FROM APPLICABLE TRADES SHALL BE AVAILABLE FOR BAS, P/LC, MECHANICAL AND FIRE ALARM SYSTEMS VALIDATION, COMMISSIONING AND TESTING.</p> <p>11. REPRESENTATIVES FROM APPLICABLE TRADES SHALL ASSIST EQUIPMENT MANUFACTURERS WITH SET-UP, TESTING, AND CLEAN-UP ACTIVITIES.</p> <p>12. CONTRACTOR SHALL COMPLY WITH THE FOLLOWING PROJECT SPECIFICATIONS: 12.1.01 3000 ADMINISTRATIVE REQUIREMENTS 12.2.01 4000 QUALITY REQUIREMENTS 12.3.01 4533 CODE-REQUIRED SPECIAL INSPECTIONS AND PROCEDURES 12.4.01 6000 PRODUCT REQUIREMENTS 12.5.01 7000 EXECUTION AND CLOSEOUT REQUIREMENTS 12.6.01 7800 CLOSEOUT SUBMITTALS</p> <p>13. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR MORE INFORMATION.</p>		

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PROJ. NO.:	221202
DESIGNED BY:	RV, SF
DRAWN BY:	NC
CHECKED BY:	RV, SF
APPROVED BY:	SF

SEAL:

SHANE L. FLOYD
PE-2019017814

AUG. 2, 2023

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MECHANICAL NOTES, SPECIFICATIONS, AND LEGENDS

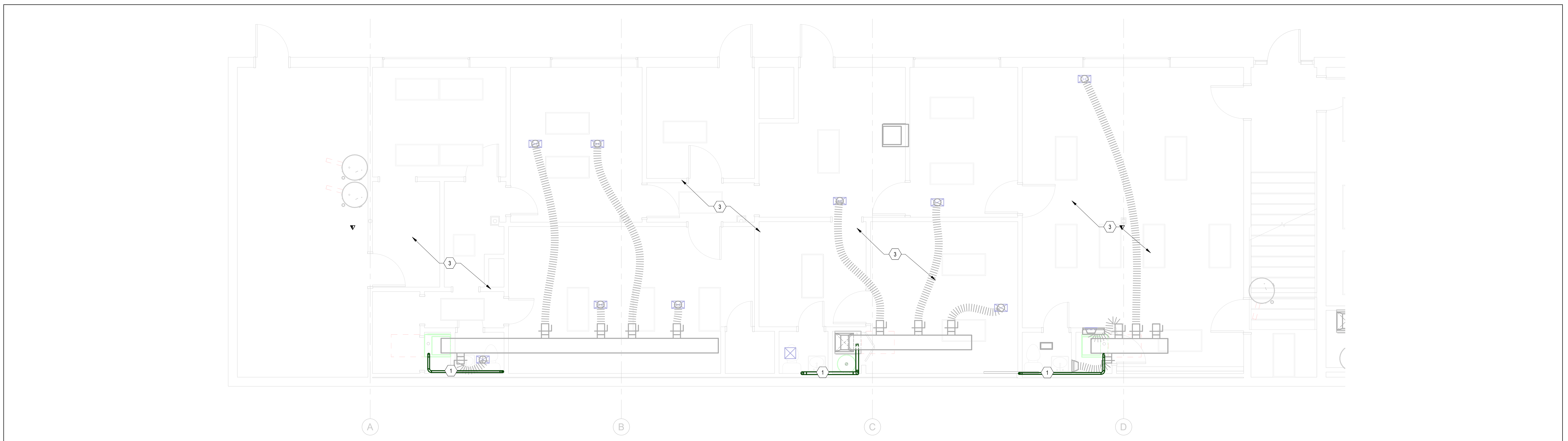
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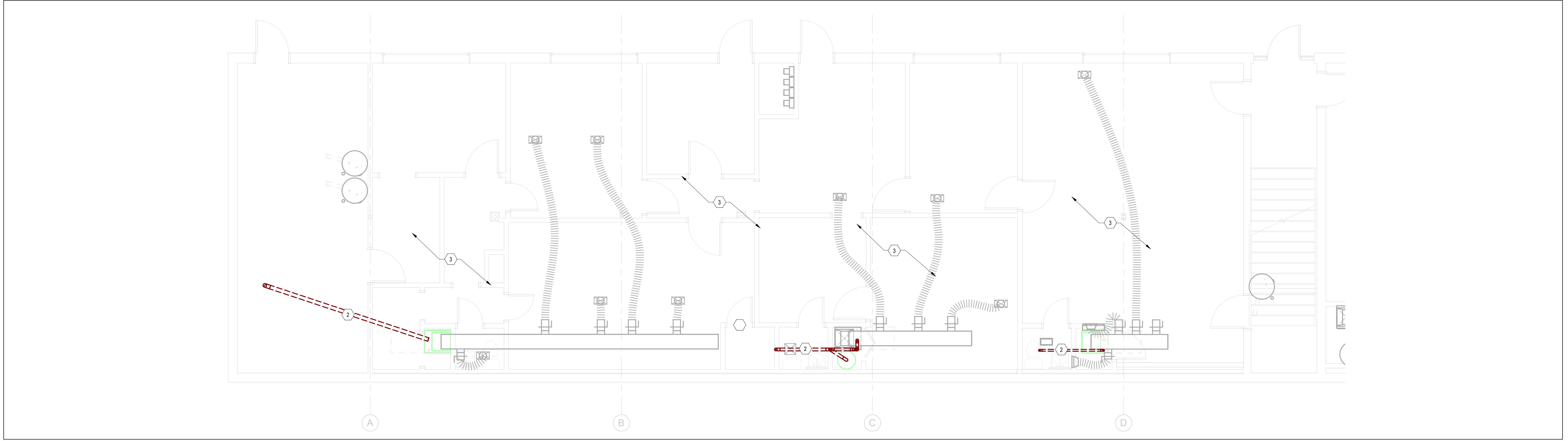
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MECHANICAL KEY NOTES	
1	NEW 8-VENT FURNACE FLUE. Tie INTO EXISTING FURNACE FLUE CONNECTION. INSTALL FLUE PER MANUFACTURER INSTALLATION INSTRUCTIONS.
2	DEMOLISH EXISTING 8-VENT FURNACE FLUE AND PREPARE UNIT FOR NEW FLEW CONNECTION
3	EXISTING DUCTWORK (LIGHT GRAY IN COLOR) THIS AREA SHALL REMAIN UNALTERED UNLESS NOTED OTHERWISE.



HVAC PLAN BASEMENT A | N1
SCALE: 1/4" = 1'-0"



HVAC PLAN BASEMENT A DEMO | B1
SCALE: 1/4" = 1'-0"

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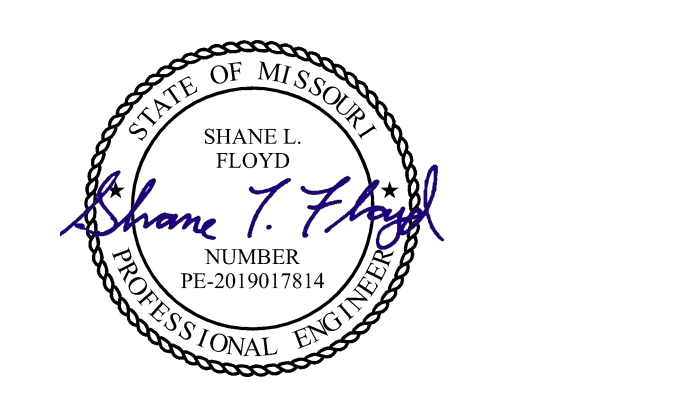
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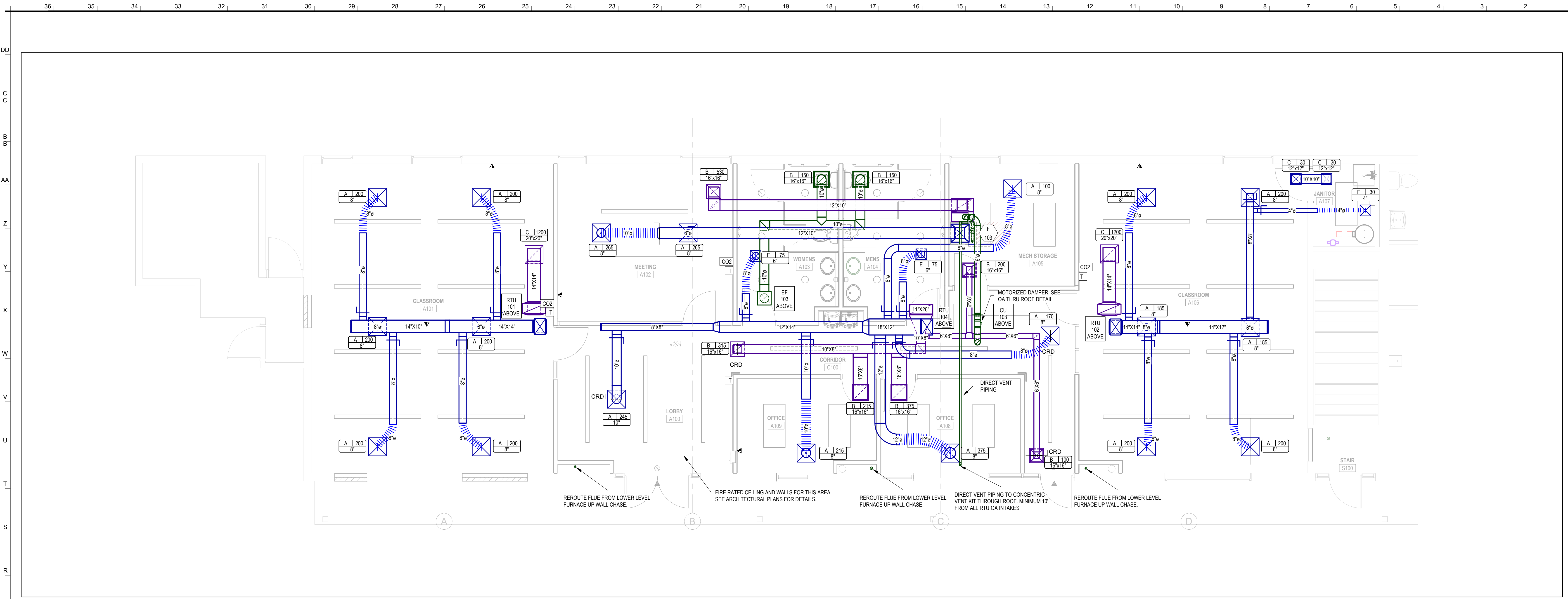
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MECHANICAL HVAC PLAN BASEMENT SUITE A

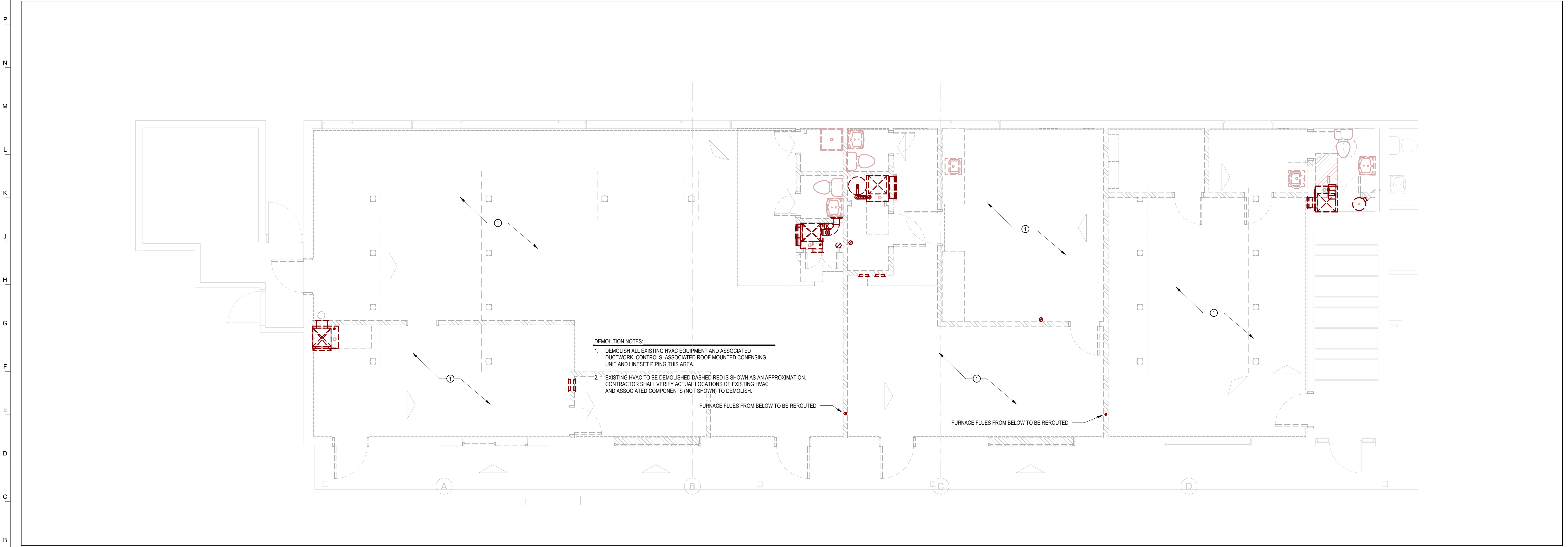
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HVAC PLAN FIRST FLOOR A | N1
SCALE: 1/4" = 1'-0"



HVAC PLAN FIRST FLOOR A DEMO | B1
SCALE: 1/4" = 1'-0"



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MECHANICAL HVAC PLAN FIRST FLOOR SUITE A

M101



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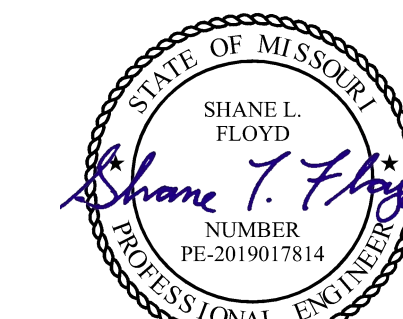
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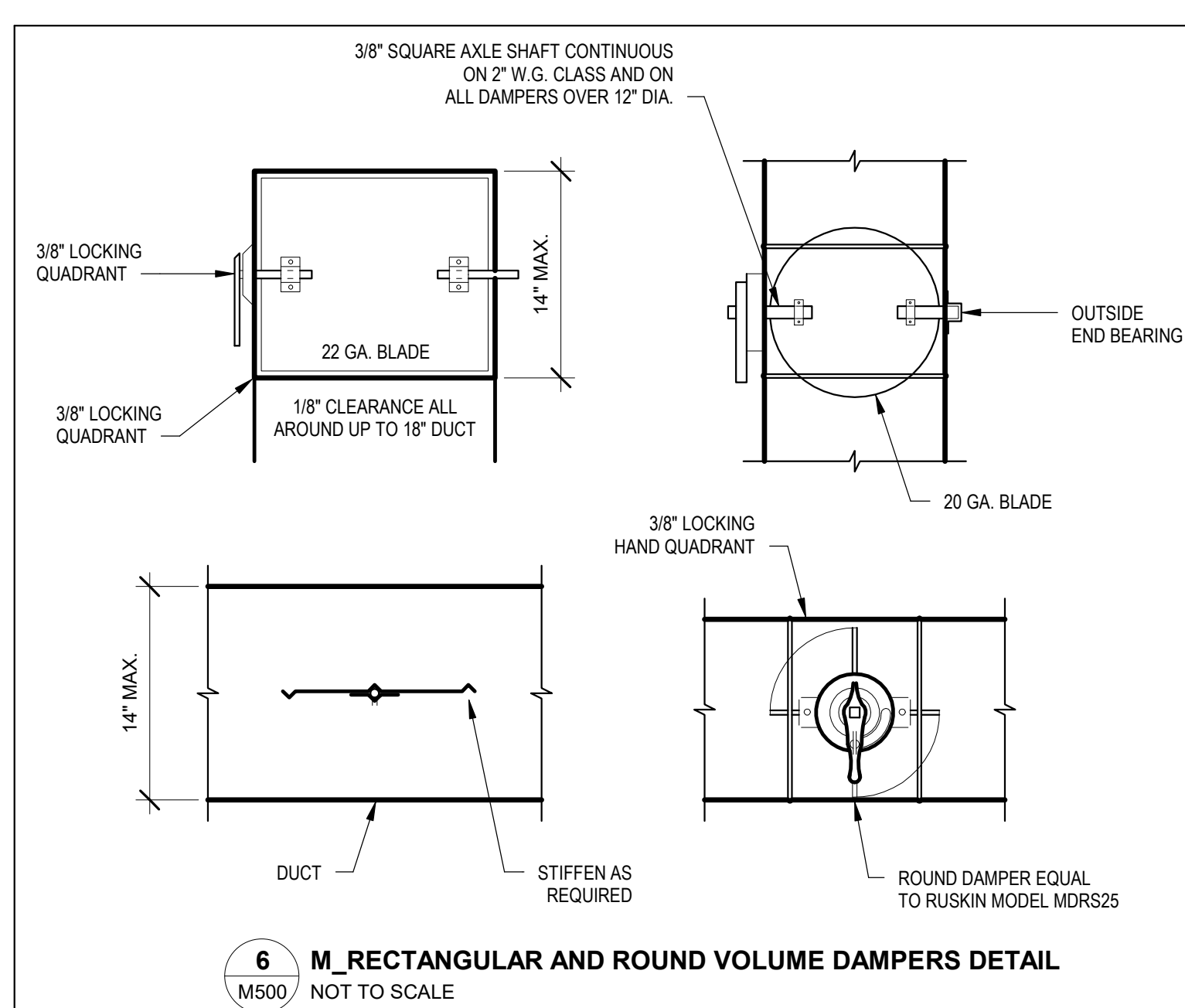
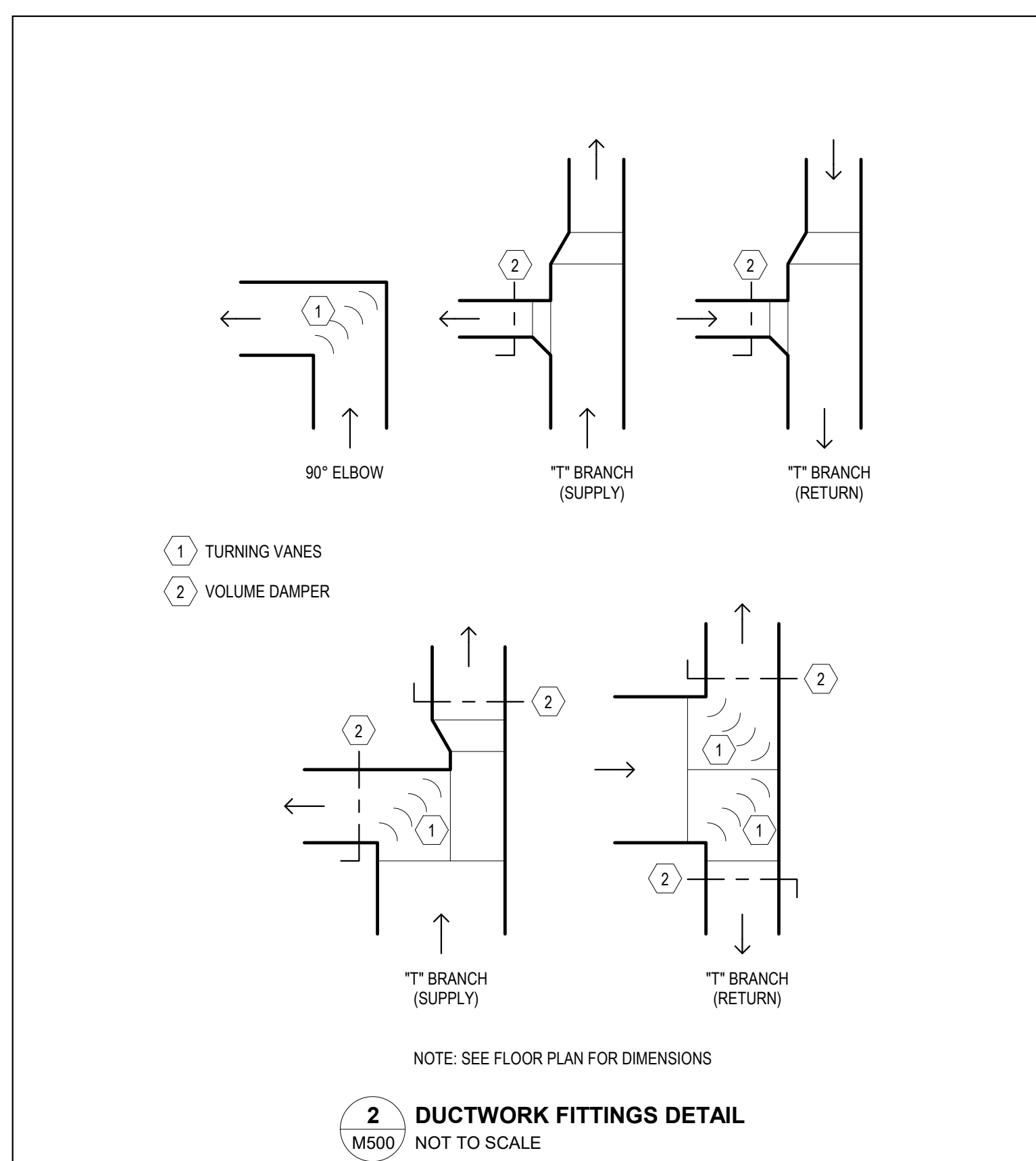
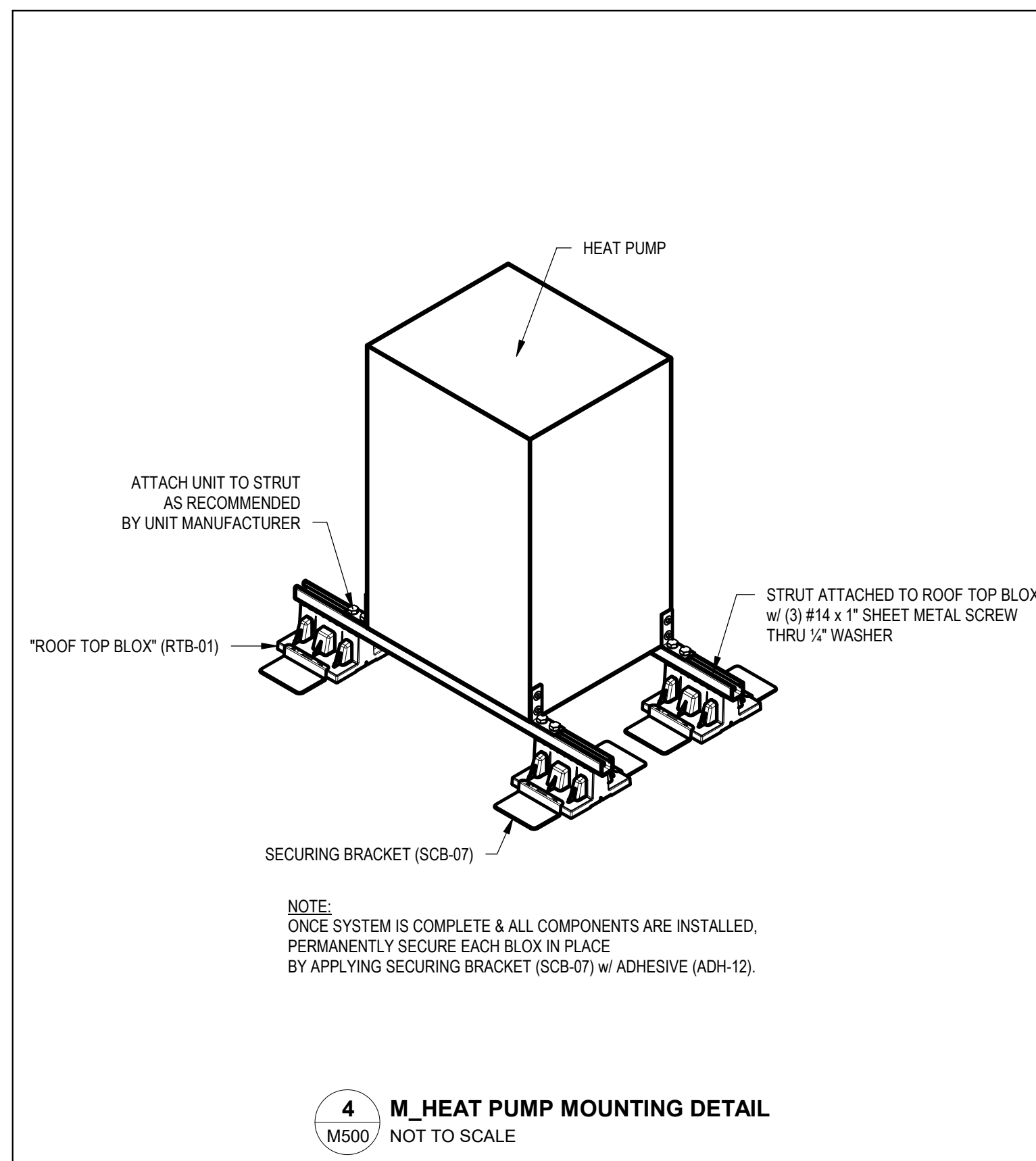
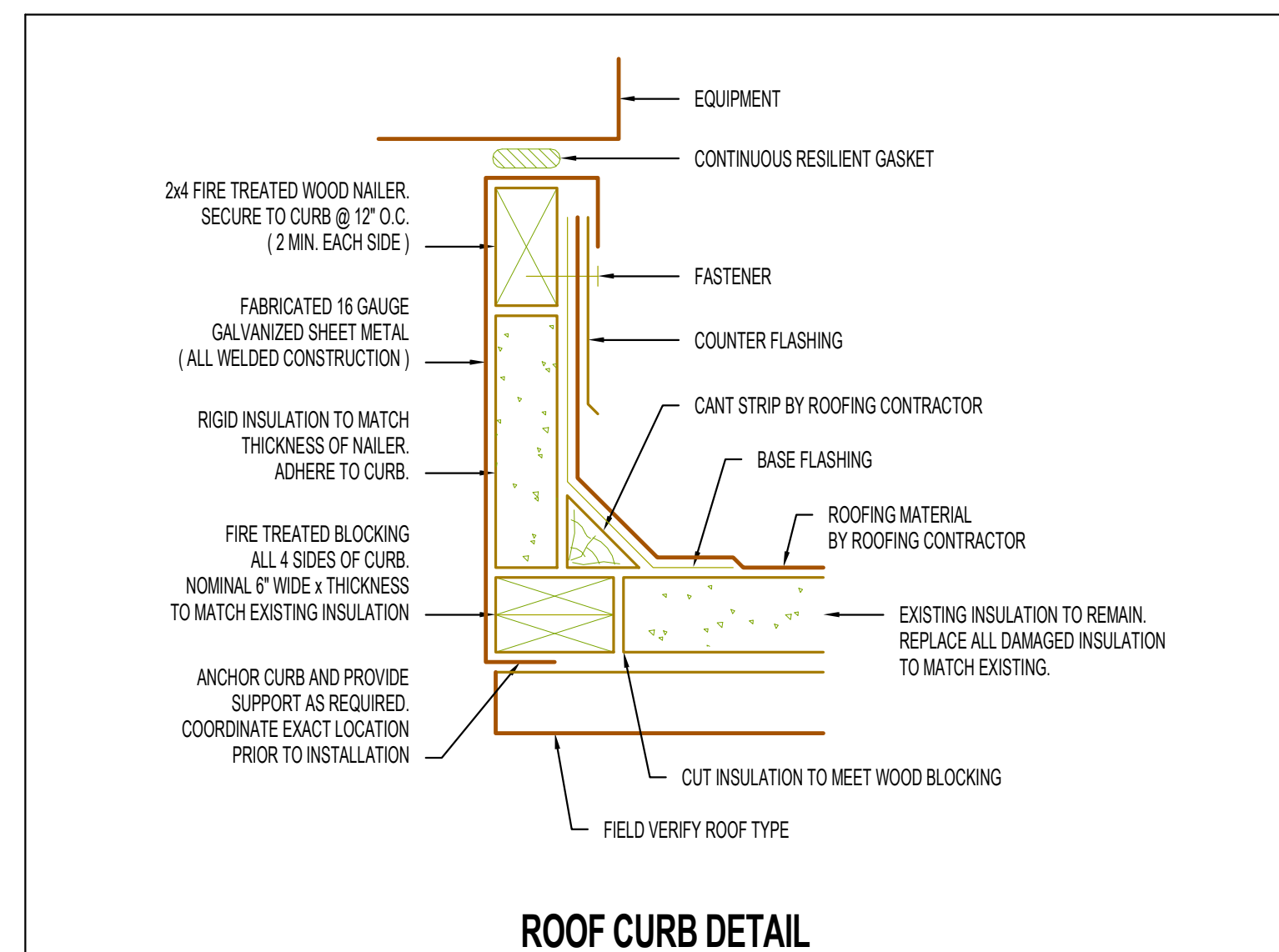
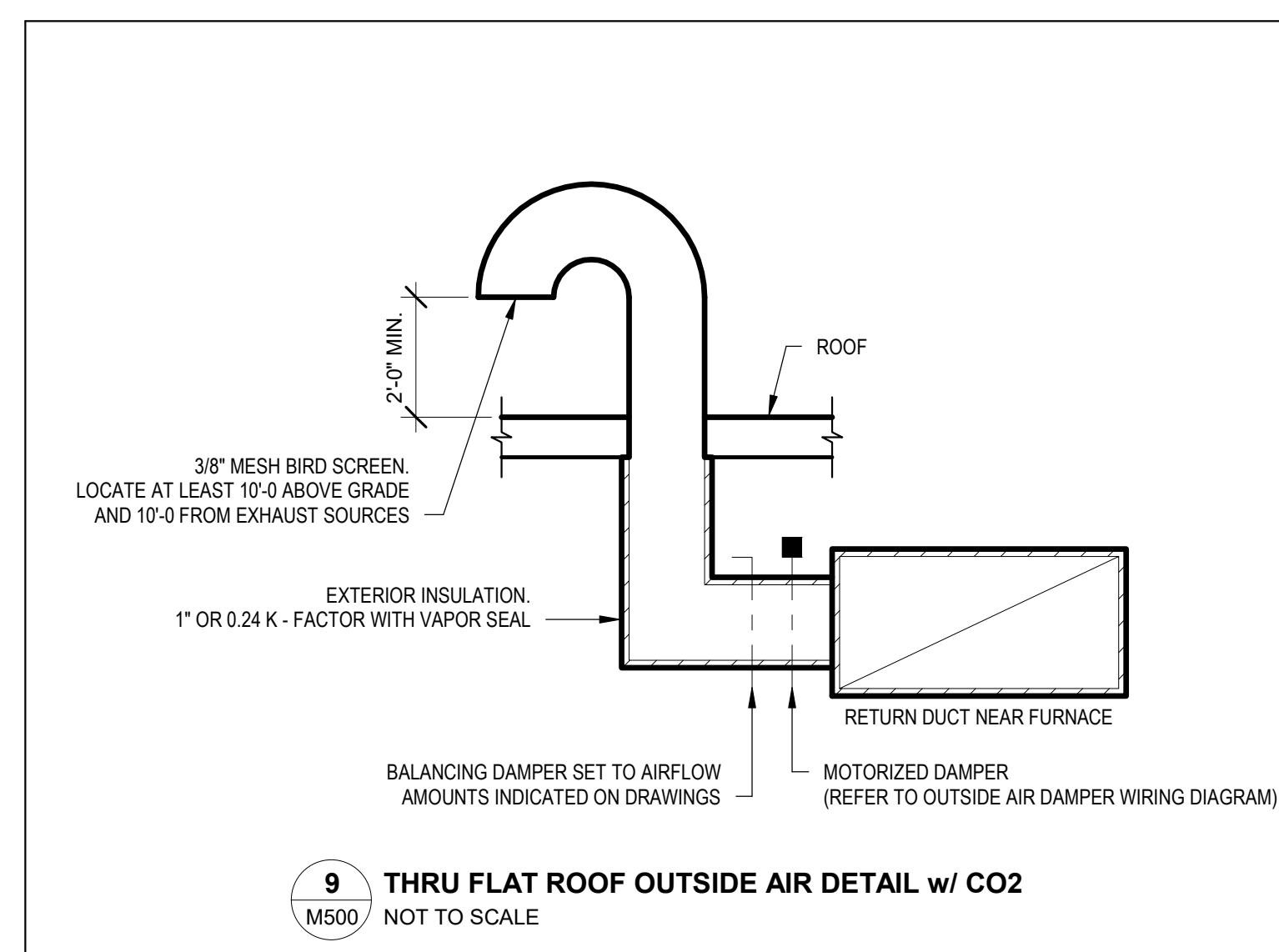
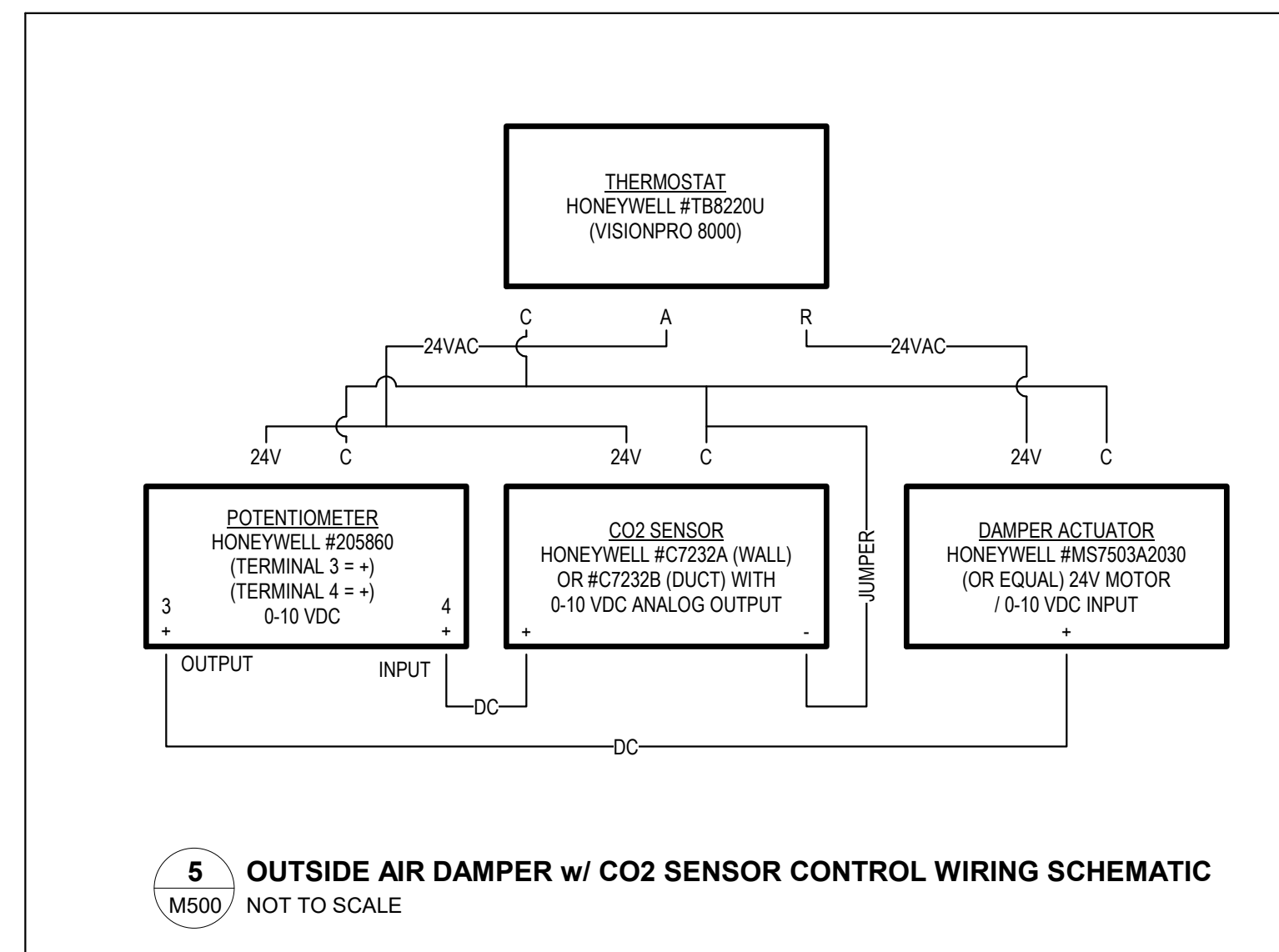
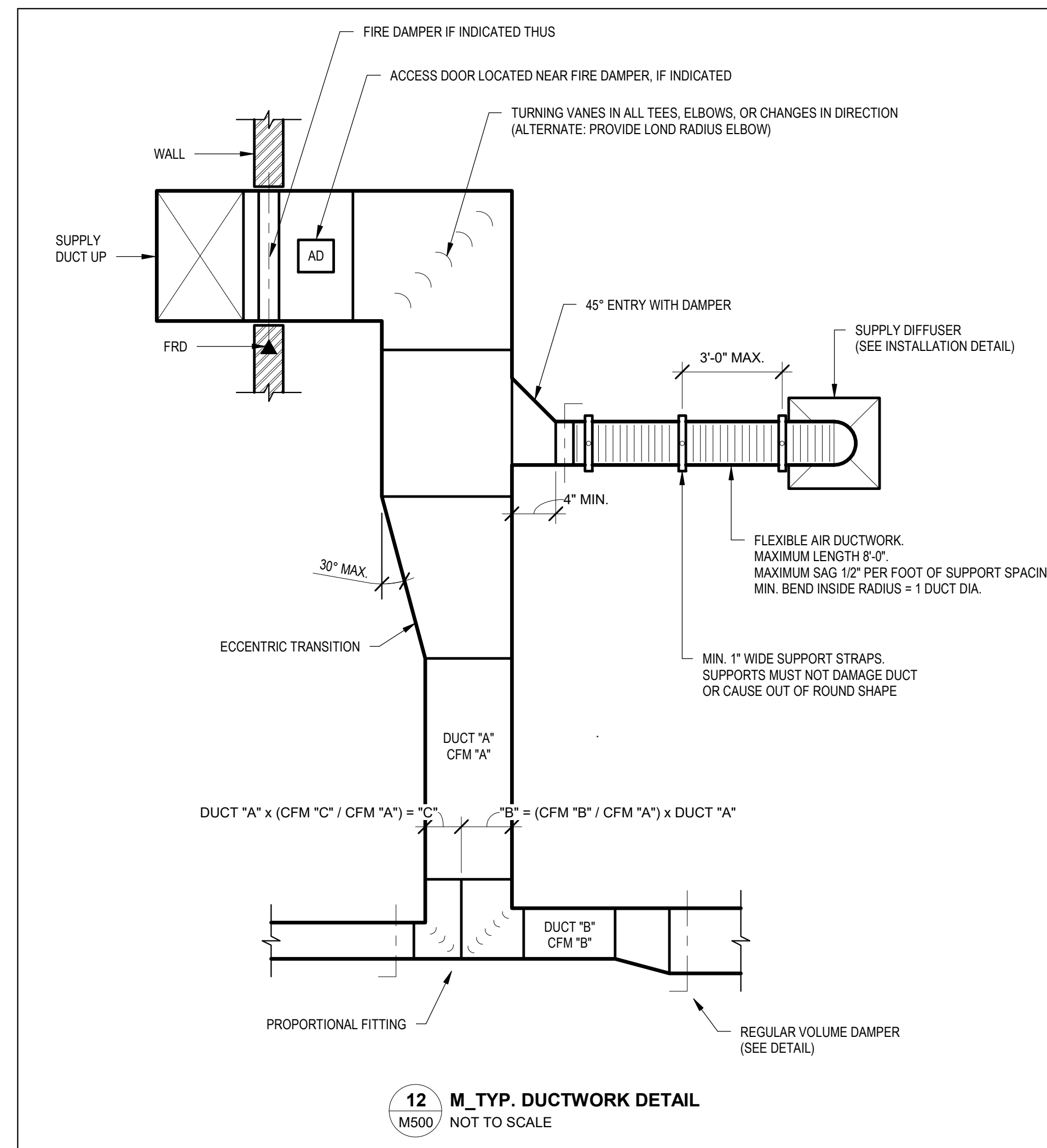
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MECHANICAL
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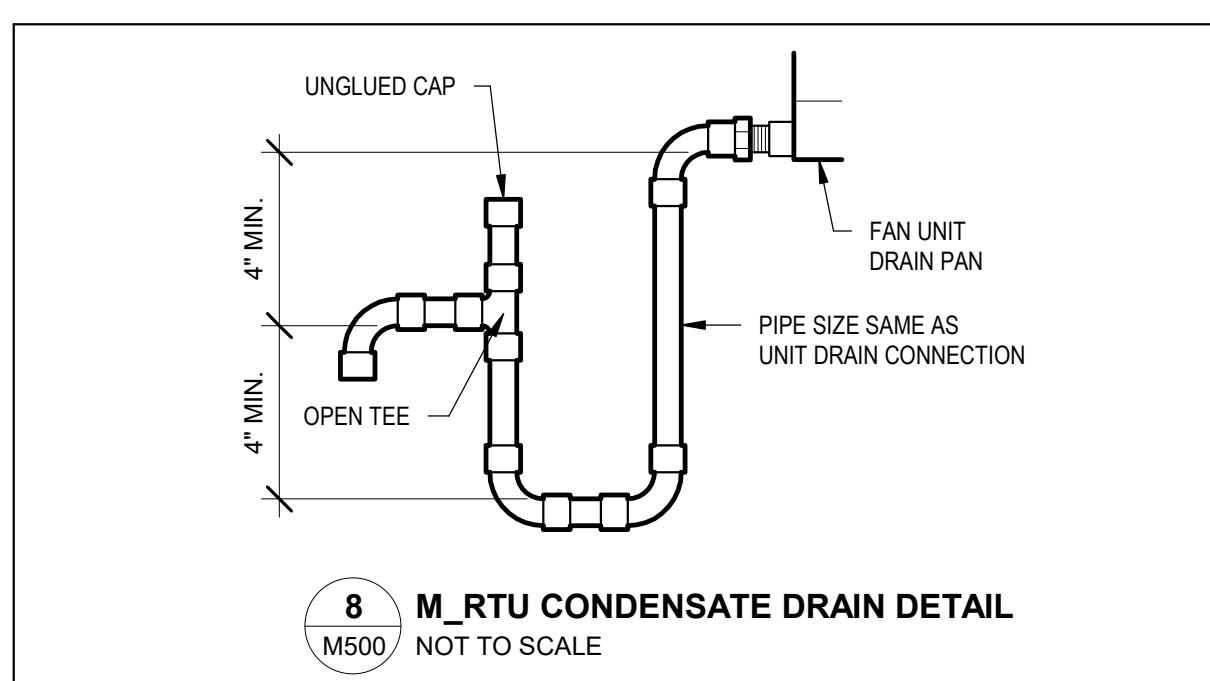
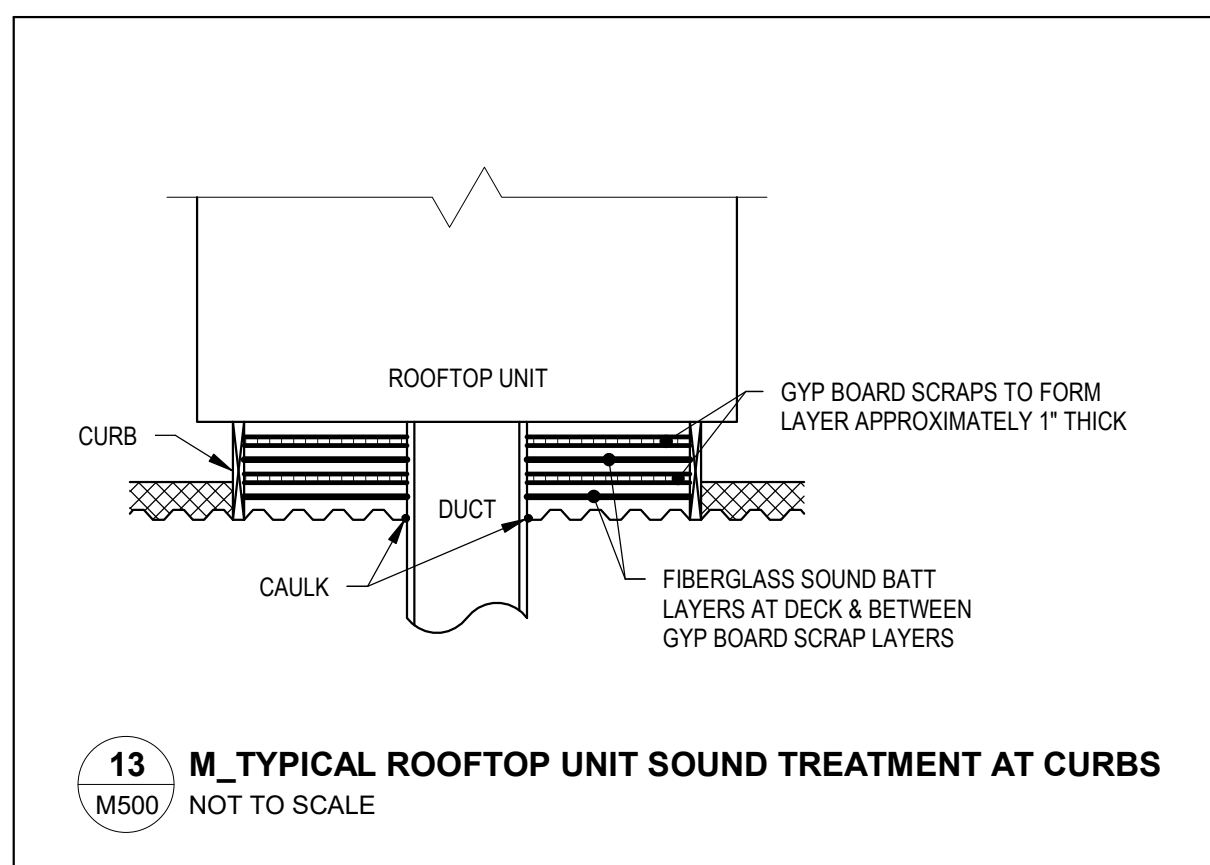
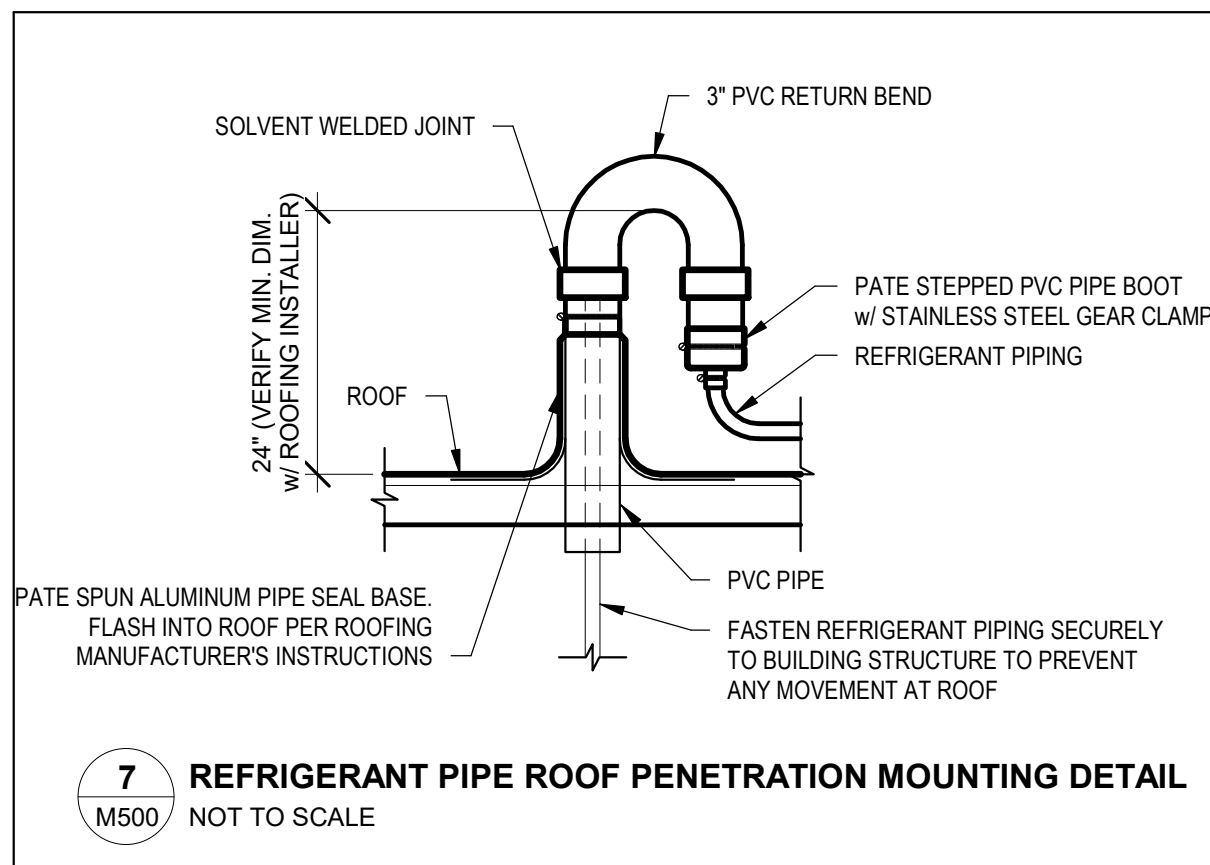
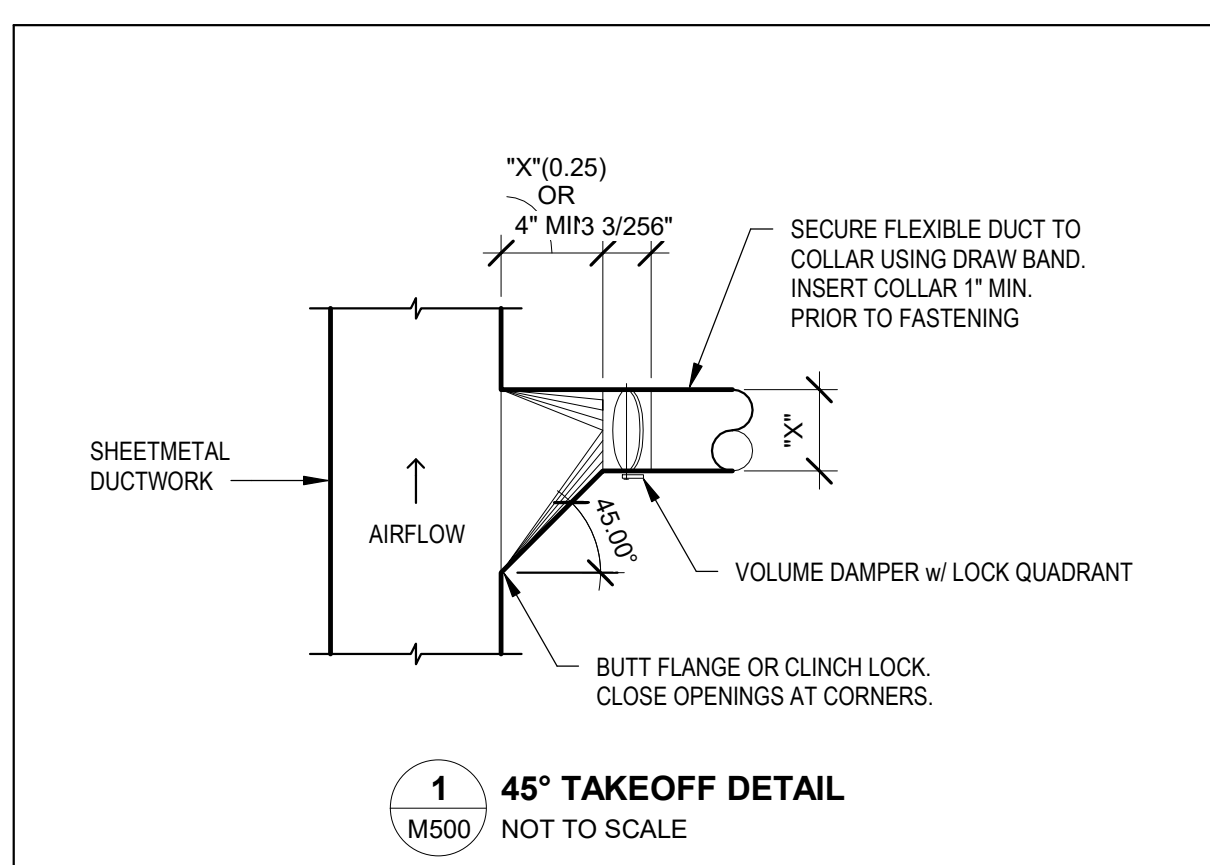
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DUCTWORK INSIDE THERMAL ENVELOPE INSULATION SCHEDULE

TYPE OF DUCTWORK	INSULATION		
	1/2" LINER	1" LINER	1 1/2" WRAP
RECTANGULAR SUPPLY	X		
RECTANGULAR RETURN	X		
RECTANGULAR EXHAUST			
RECTANGULAR OUTSIDE AIR			X
ROUND SUPPLY		X	X
ROUND RETURN		X	X
ROUND EXHAUST			
ROUND OUTSIDE AIR			X
SPIRAL SUPPLY			
SPIRAL RETURN			
SPIRAL EXHAUST			
SPIRAL OUTSIDE AIR			X

11 TYP. DUCT INSULATION DETAIL
M500 NOT TO SCALE



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MECHANICAL SCHEDULES

M600

DIFFUSER NECK SIZING SCHEDULE table with columns: MAX CFM, NECK SIZE, DIA

AIR BALANCE CALCULATION (CFM) table with columns: SOURCE, INTAKE, EXHAUST, NET, NET %

AIR DEVICES SCHEDULE table with columns: MARK, MFR., MODEL, MOUNTING, SERVICE, THROW, FACE SIZE, MATERIAL, FINISH, REMARKS

EXHAUST FAN SCHEDULE table with columns: MARK, DESCRIPTION, FLOW, CFM, ELECTRICAL, NOTES

SPLIT SYSTEM EQUIPMENT SCHEDULE table with columns: MARK, DESCRIPTION, FLOW, TONS, CFM, OA CFM, HEATING (GAS), COOLING (80/67 DBWB), ELECTRICAL, PHYSICAL, NOTES

ROOFTOP UNIT SCHEDULE table with columns: MARK, DESCRIPTION, TONS, MIN. EFFICIENCY SEER2, MIN # COOLING STAGES, FLOW, CFM, OA CFM (MAX/MIN), HEATING (GAS), COOLING (67WB, 80DB, 95F AMBIENT), ELECTRICAL, PHYSICAL, NOTES

Operating Condition Description: RTU-101 / RM: 101. Includes inputs for system, operating condition, and results.

Operating Condition Description: F-103 / RM: 102. Includes inputs for system, operating condition, and results.

Operating Condition Description: RTU-102 / RM: 106. Includes inputs for system, operating condition, and results.

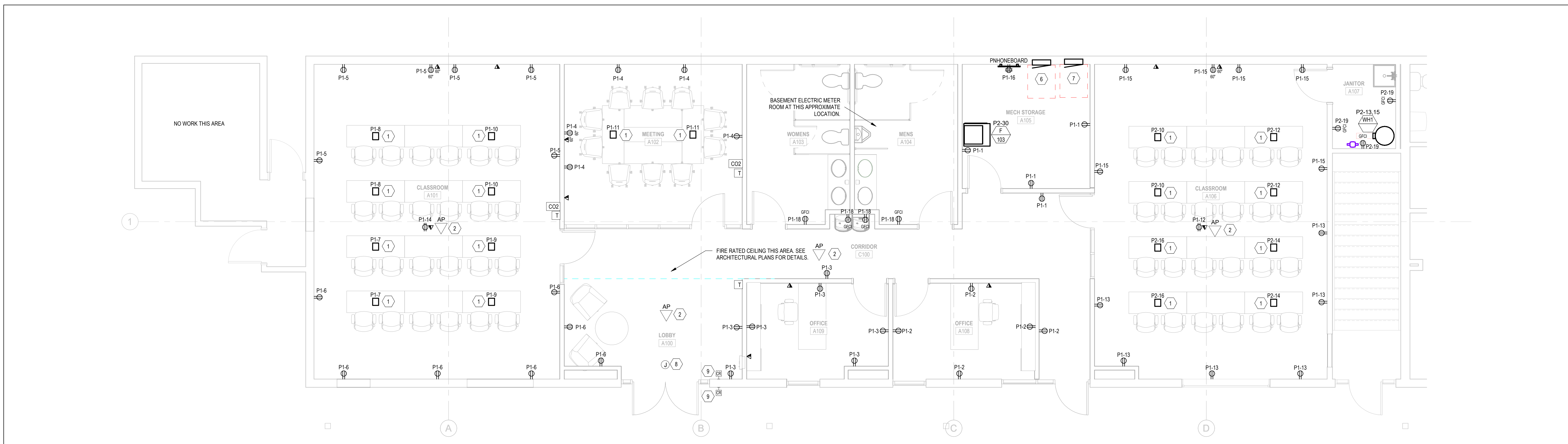
Operating Condition Description: RTU-104 / RM: 103,104,105,107,108,109,110. Includes inputs for system, operating condition, and results.

Vertical grid lines: DD, C, B, AA, Z, Y, X, W, V, U, T, S, R, Q, P, N, M, L, K, J, H, G, F, E, D, C, B, A

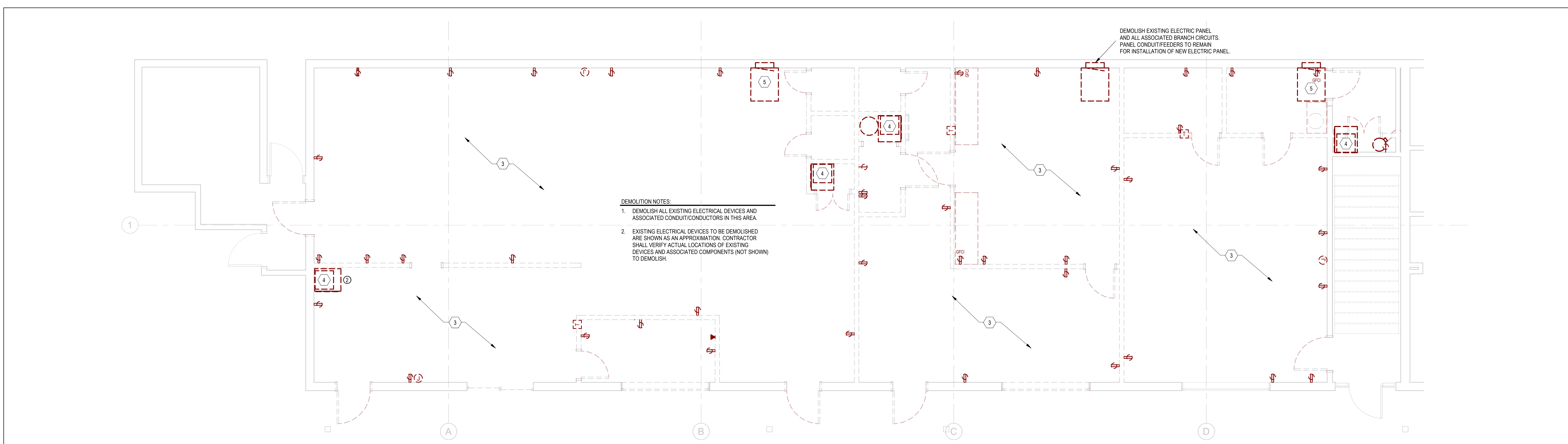
Vertical grid lines: DD, CC, BB, AA, Z, Y, X, W, V, U, T, S, R, Q, P, N, M, L, K, J, H, G, F, E, D, C, B, A

ELECTRICAL KEY NOTES	
1	PROVIDE NEW RECESSED FLOORBOX EQUAL TO LEGRAND RFB4. PROVIDE RACEWAY FOR POWER TO ACCESSIBLE LOCATION IN ATTIC.
2	COORDINATE WIRELESS ACCESS POINT LOCATION WITH OWNERS REPRESENTATIVE IT DEPARTMENT PRIOR TO ROUGH-IN.
3	DEMOLISH RECEPTACLES, JUNCTION BOXES, BRANCH CIRCUIT WIRING, RACEWAYS, AND DEVICES IN WALLS TO BE DEMOLISHED OR HAVE WALLBOARD REMOVED.
4	DEMOLISH ALL ELECTRICAL ASSOCIATED WITH DEMOLISHED HVAC UNIT.
5	DEMOLISH ELECTRIC PANEL AND FEEDER BACK TO SERVICE DISCONNECT AND METER.
6	INSTALL NEW ELECTRICAL PANEL 2-1/2" EMT CONDUIT WITH (3) #30 CU, (1) #6 CU ED, GRD. FROM EXISTING 240V, 1PH, 200 AMP DISCONNECT WHICH PREVIOUSLY SERVED DEMOLISHED 200 AMP PANEL IN THIS SPACE. DISCONNECT IS LOCATED BASEMENT ELECTRICAL METER ROOM.
7	INSTALL NEW ELECTRICAL PANEL 120/240V, 1PH, 100 AMP, 20 CKT AT SAME LOCATION OF DEMOLISHED PANEL. TIE INTO EXISTING CONDUIT FEEDERS FROM DEMOLISHED PANEL.
8	JUNCTION BOX FOR ADA OPERATOR POWER SUPPLY. INSTALL ABOVE CEILING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DOOR OPERATOR INSTALLER.
9	JUNCTION BOX FOR ADA OPERATOR. VERIFY EXACT LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. ROUTE 1" CONDUIT WITH PULL STRING TO ABOVE CEILING FOR LOW VOLTAGE CABLE INSTALLATION BY OWNERS SUBCONTRACTOR.

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POWER PLAN FIRST FLOOR A N1
SCALE: 1/4" = 1'-0"



POWER PLAN FIRST FLOOR A DEMO B1
SCALE: 1/4" = 1'-0"

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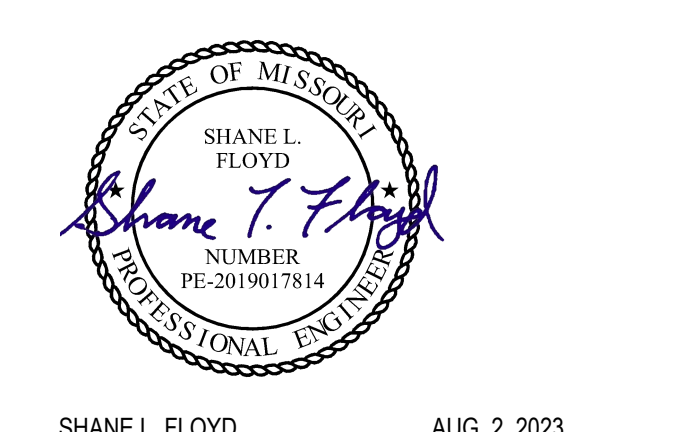
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DRAWN BY:	NC
CHECKED BY:	RV, SF
APPROVED BY:	SF



SHANE L. FLOYD AUG 2, 2023
PE-2019017814

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POWER PLAN FIRST FLOOR SUITE A

EP101



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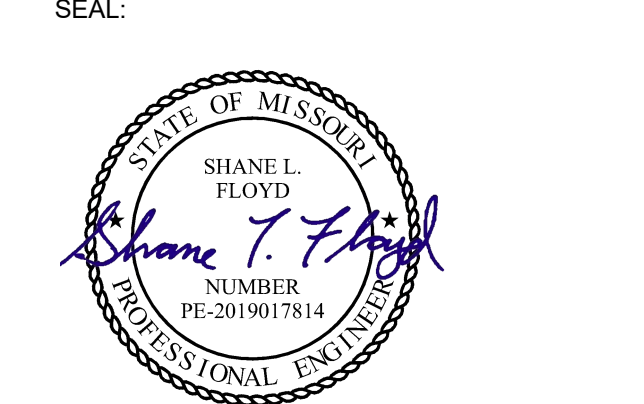


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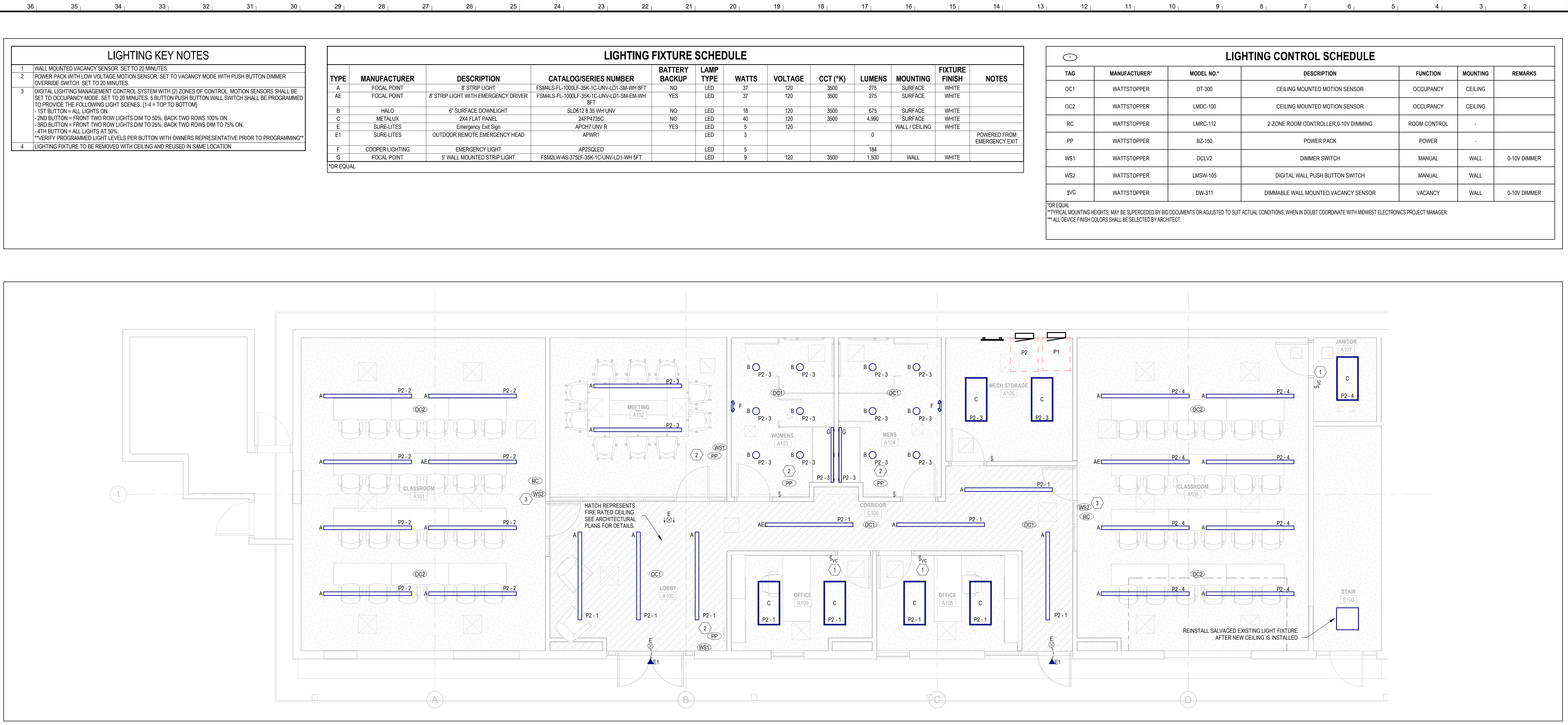
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AUG. 2, 2023

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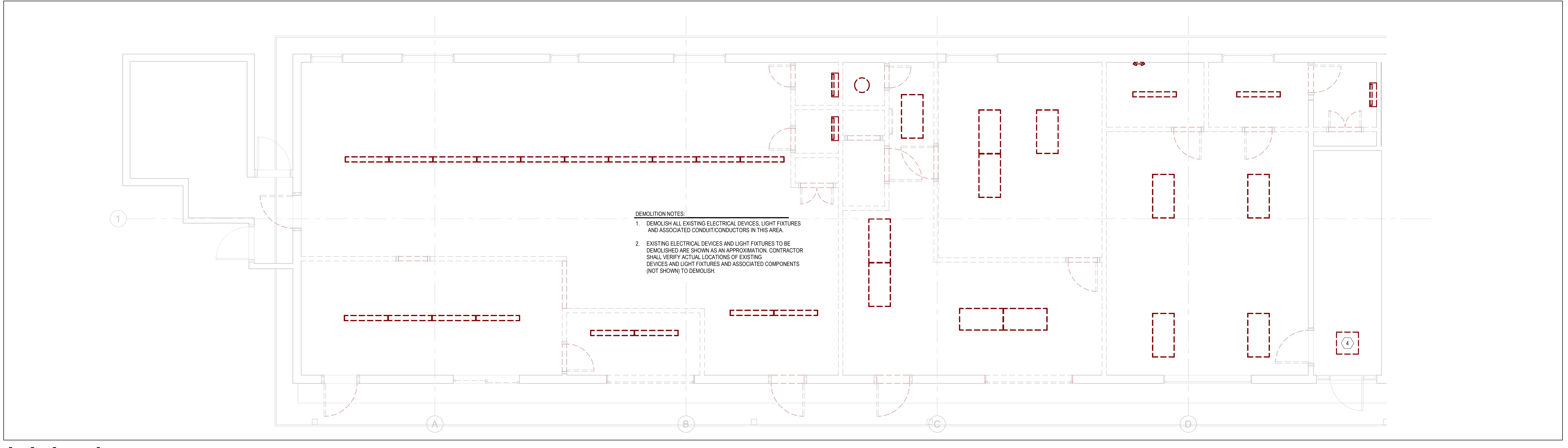
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LIGHTING PLAN FIRST FLOOR SUITE A

EL101



LIGHTING PLAN FIRST FLOOR A N1
SCALE: 1/4" = 1'-0"



LIGHTING PLAN FIRST FLOOR A DEMO B1
SCALE: 1/4" = 1'-0"

LIGHTING KEY NOTES

- WALL MOUNTED VACANCY SENSOR, SET TO 20 MINUTES.
- POWER PACK WITH LOW VOLTAGE MOTION SENSOR, SET TO VACANCY MODE WITH PUSH BUTTON DIMMER OVERRIDE SWITCH, SET TO 20 MINUTES.
- DIGITAL LIGHTING MANAGEMENT CONTROL SYSTEM WITH (2) ZONES OF CONTROL. MOTION SENSORS SHALL BE SET TO OCCUPANCY MODE, SET TO 20 MINUTES. 5-BUTTON PUSH BUTTON WALL SWITCH SHALL BE PROGRAMMED TO PROVIDE THE FOLLOWING LIGHT SCENES: (1-4 FROM TOP TO BOTTOM):
 - 1ST BUTTON = ALL LIGHTS ON
 - 2ND BUTTON = FRONT TWO ROW LIGHTS DIM TO 50%, BACK TWO ROWS 100% ON.
 - 3RD BUTTON = FRONT TWO ROW LIGHTS DIM TO 25%, BACK TWO ROWS DIM TO 75% ON.
 - 4TH BUTTON = ALL LIGHTS AT 50%.
 VERIFY PROGRAMMED LIGHT LEVELS PER BUTTON WITH OWNERS REPRESENTATIVE PRIOR TO PROGRAMMING
- LIGHTING FIXTURE TO BE REMOVED WITH CEILING AND REUSED IN SAME LOCATION

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION	CATALOG/SERIES NUMBER	BATTERY BACKUP	LAMP TYPE	WATTS	VOLTAGE	CCT (°K)	LUMENS	MOUNTING	FIXTURE FINISH	NOTES
A	FOCAL POINT	8' STRIP LIGHT	FSM4LS-FL-100LF-35K-1C-UNV-LD1-SM-WH-8FT	NO	LED	37	120	3500	275	SURFACE	WHITE	
AE	FOCAL POINT	8' STRIP LIGHT WITH EMERGENCY DRIVER	FSM4LS-FL-100LF-35K-1C-UNV-LD1-SM-EM-WH-8FT	YES	LED	37	120	3500	275	SURFACE	WHITE	
B	HALO	6" SURFACE DOWNLIGHT	SLD612 8 35 WH UNV	NO	LED	18	120	3500	675	SURFACE	WHITE	
C	METALUX	2X4 FLAT PANEL	24FP4735C	NO	LED	40	120	3500	4,990	SURFACE	WHITE	
E	SURE-LITES	Emergency Exit Sign	APCH UNV R	YES	LED	5	120		0	WALL / CEILING	WHITE	
E1	SURE-LITES	OUTDOOR REMOTE EMERGENCY HEAD	APWR1		LED	3						POWERED FROM EMERGENCY EXIT
F	COOPER LIGHTING	EMERGENCY LIGHT	AP25QLED		LED	5			184			
G	FOCAL POINT	8' WALL MOUNTED STRIP LIGHT	FSM2LWAS-375LF-35K-1C-UNV-LD1-WH-8FT		LED	9	120	3500	1,500	WALL	WHITE	FOR EQUAL

LIGHTING CONTROL SCHEDULE

TAG	MANUFACTURER*	MODEL NO.*	DESCRIPTION	FUNCTION	MOUNTING	REMARKS
OC1	WATTSTOPPER	DT-300	CEILING MOUNTED MOTION SENSOR	OCCUPANCY	CEILING	
OC2	WATTSTOPPER	LMDC-100	CEILING MOUNTED MOTION SENSOR	OCCUPANCY	CEILING	
RC	WATTSTOPPER	LMRC-112	2-ZONE ROOM CONTROLLER, 0-10V DIMMING	ROOM CONTROL		
PP	WATTSTOPPER	BZ-150	POWER PACK	POWER		
WS1	WATTSTOPPER	DCLV2	DIMMER SWITCH	MANUAL	WALL	0-10V DIMMER
WS2	WATTSTOPPER	LMSW-105	DIGITAL WALL PUSH BUTTON SWITCH	MANUAL	WALL	
SVC	WATTSTOPPER	DW-311	DIMMABLE WALL MOUNTED VACANCY SENSOR	VACANCY	WALL	0-10V DIMMER

*OR EQUAL
 **TYPICAL MOUNTING HEIGHTS, MAY BE SUPERCEDED BY BID DOCUMENTS OR ADJUSTED TO SUIT ACTUAL CONDITIONS. WHEN IN DOUBT COORDINATE WITH MIDWEST ELECTRONICS PROJECT MANAGER.
 ***ALL DEVICE FINISH COLORS SHALL BE SELECTED BY ARCHITECT.



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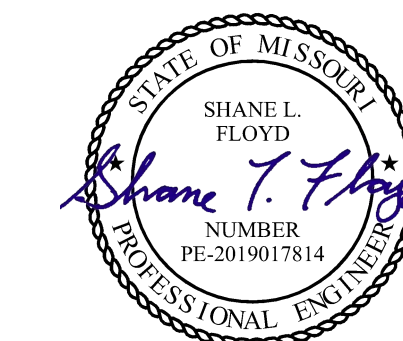
DATE: 08/02/2023
PROJ. NO.: 221202

DESIGNED BY: RV, SF
DRAWN BY: NC

CHECKED BY: RV, SF

APPROVED BY: SF

SEAL:



SHANE L. FLOYD AUG. 2, 2023
PE-2019017814

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**ELECTRICAL
DETAILS AND
SCHEDULES**

E500

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Branch Panel: P1

Location: UPPER FLOOR A 169
Supply From:
Mounting: RECESSED
Enclosure: NEMA1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating:
Mains Type: M.L.O.
Mains Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT
1	RCPT MECH ROOM	20 A	1	6 A	8 A	1	20 A	RCPT EAST OFFICE	2
3	RCPT WEST OFFICE	20 A	1				20 A	RCPT CONFERENCE ROOM	4
5	RCPT WEST CLASSROOM NORTH	20 A	1	9 A	11 A	1	20 A	RCPT WEST CLASSROOM SOUTH	6
7	FLOOR RCPT WEST CLASSROOM 3	20 A	1				20 A	FLOOR RCPT WEST CLASSROOM 1	8
9	FLOOR RCPT WEST CLASSROOM 4	20 A	1	6 A	6 A	1	20 A	FLOOR RCPT WEST CLASSROOM 2	10
11	FLOOR RCPT CONFERENCE ROOM	20 A	1				20 A	CEILING RCPT EAST CLASSROOM	12
13	RCPT EAST CLASSROOM SOUTH	20 A	1	9 A	2 A	1	20 A	CEILING RCPT WEST CLASSROOM	14
15	RCPT EAST CLASSROOM NORTH	20 A	1				20 A	PHONEBOARD RCPT	16
17	SPARE	20 A	1	0 A	8 A	1	20 A	RCPT BATHROOM AND WF	18
19	SPARE	20 A	1				20 A	SPARE	20
Total Load:				7620 VA	5760 VA				
Total Amps:				64 A	48 A				

Branch Panel: P2

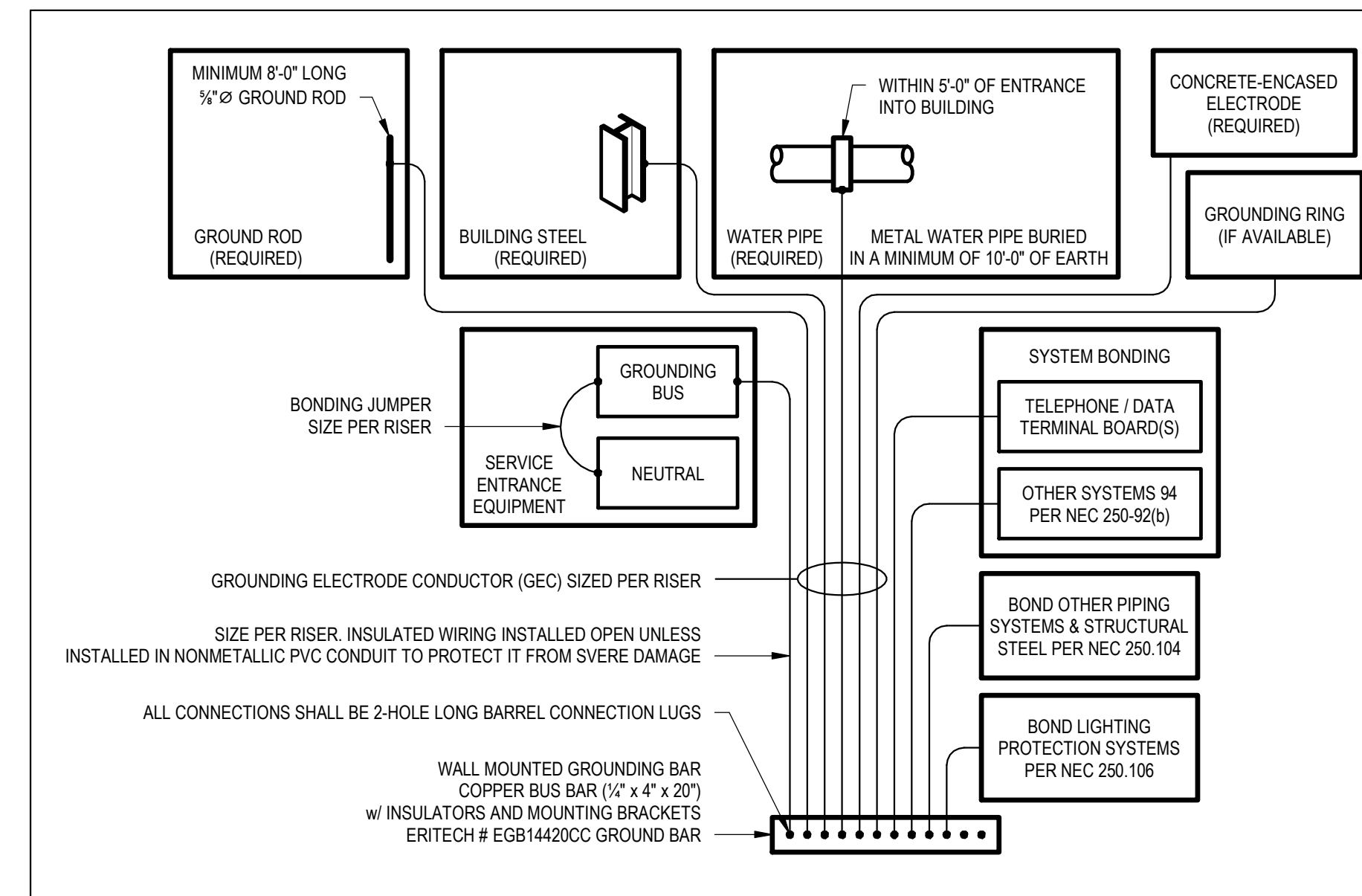
Location: UPPER FLOOR A 169
Supply From:
Mounting: RECESSED
Enclosure: NEMA1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating:
Mains Type: M.L.O.
Mains Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT
1	LIGHTING SOUTH	20 A	1	4 A	2 A	1	20 A	LIGHTING WEST CLASSROOM	2
3	LIGHTING NORTH	20 A	1				20 A	LIGHTING EAST CLASSROOM	4
5	RTU-104	45 A	2	30 A	30 A	2	45 A	RTU-102	6
7	--	--	--	--	--	--	--	--	8
9	RTU-101	45 A	2	30 A	6 A	1	20 A	FLOOR RCPT EAST CLASSROOM 1	10
11	--	--	--	--	--	--	20 A	FLOOR RCPT EAST CLASSROOM 2	12
13	WH1	30 A	2	19 A	6 A	1	20 A	FLOOR RCPT EAST CLASSROOM 4	14
15	--	--	--	--	--	--	20 A	FLOOR RCPT EAST CLASSROOM 3	16
17	EXHAUST FAN	20 A	1	9 A	16 A	2	20 A	CJ-103	18
19	RCPT JANITOR CLOSET	20 A	1				--	--	20
21	RCPT	20 A	1	3 A	0 A	1	20 A	SPARE	22
23	SPARE	20 A	1				20 A	SPARE	24
25	SPARE	20 A	1	0 A	0 A	1	20 A	SPARE	26
27	SPARE	20 A	1				20 A	SPARE	28
29	SPARE	20 A	1	0 A	11 A	1	20 A	F-103	30
31	SPARE	20 A	1				20 A	WP ROOF RECEPTACLE	32
33	SPARE	20 A	1	0 A	0 A	1	20 A	SPARE	34
35	SPARE	20 A	1				20 A	SPARE	36
37	SPARE	20 A	1	0 A	0 A	1	20 A	SPARE	38
39	SPARE	20 A	1				20 A	SPARE	40
41	SPARE	20 A	1	0 A	0 A	1	20 A	SPARE	42
Total Load:				19853 VA	18025 VA				
Total Amps:				165 A	150 A				



1 E_POWER_GROUNDING & BONDING DETAIL
(E500) NOT TO SCALE

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PROJ. NO.: 221202
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DRAWN BY: NC
CHECKED BY: SLF, RV
APPROVED BY: SLF



SHANE L. FLOYD
PE-2019017814
AUG. 2, 2023

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PLUMBING NOTES, SPECIFICATIONS, AND LEGENDS

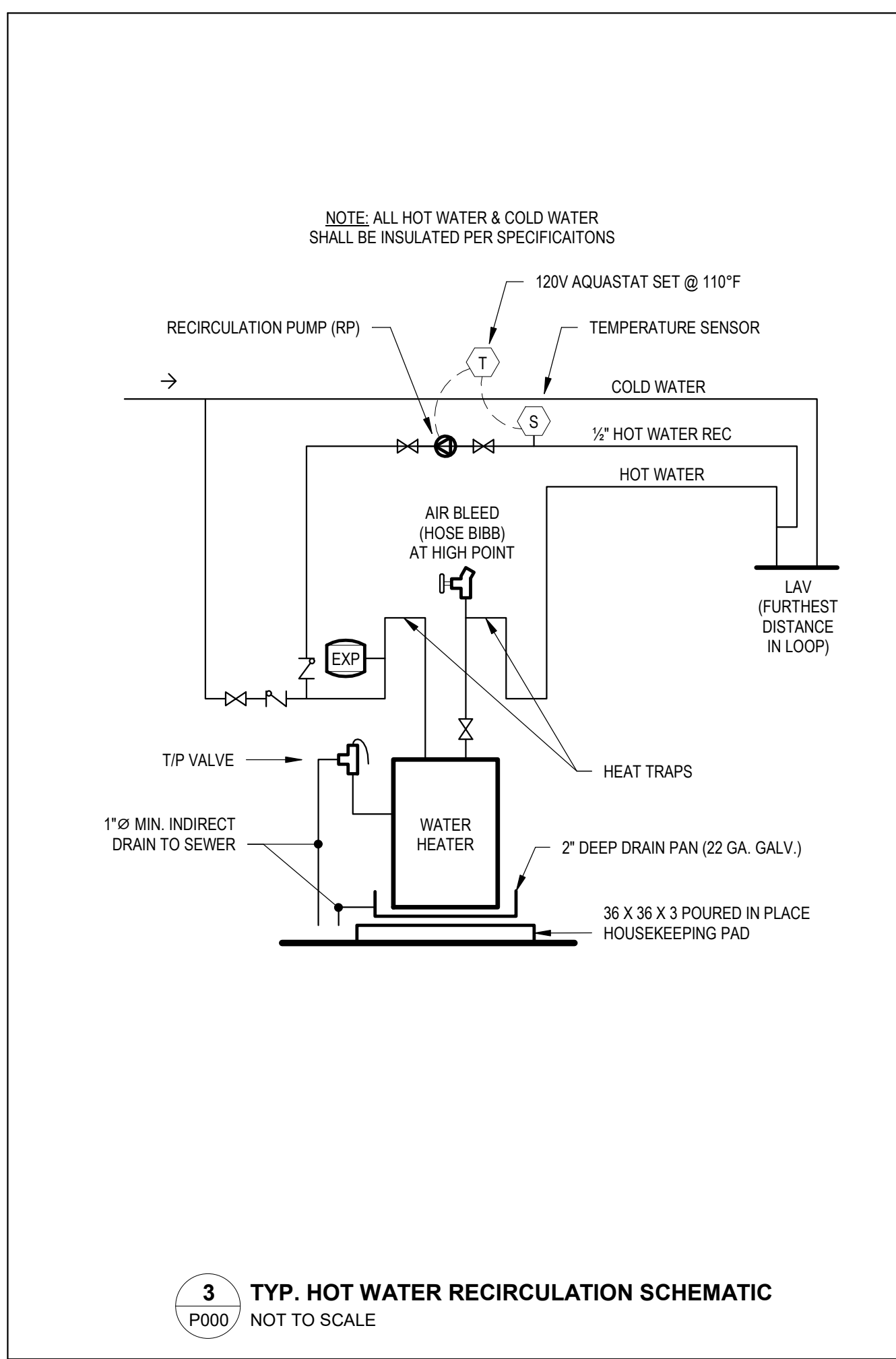
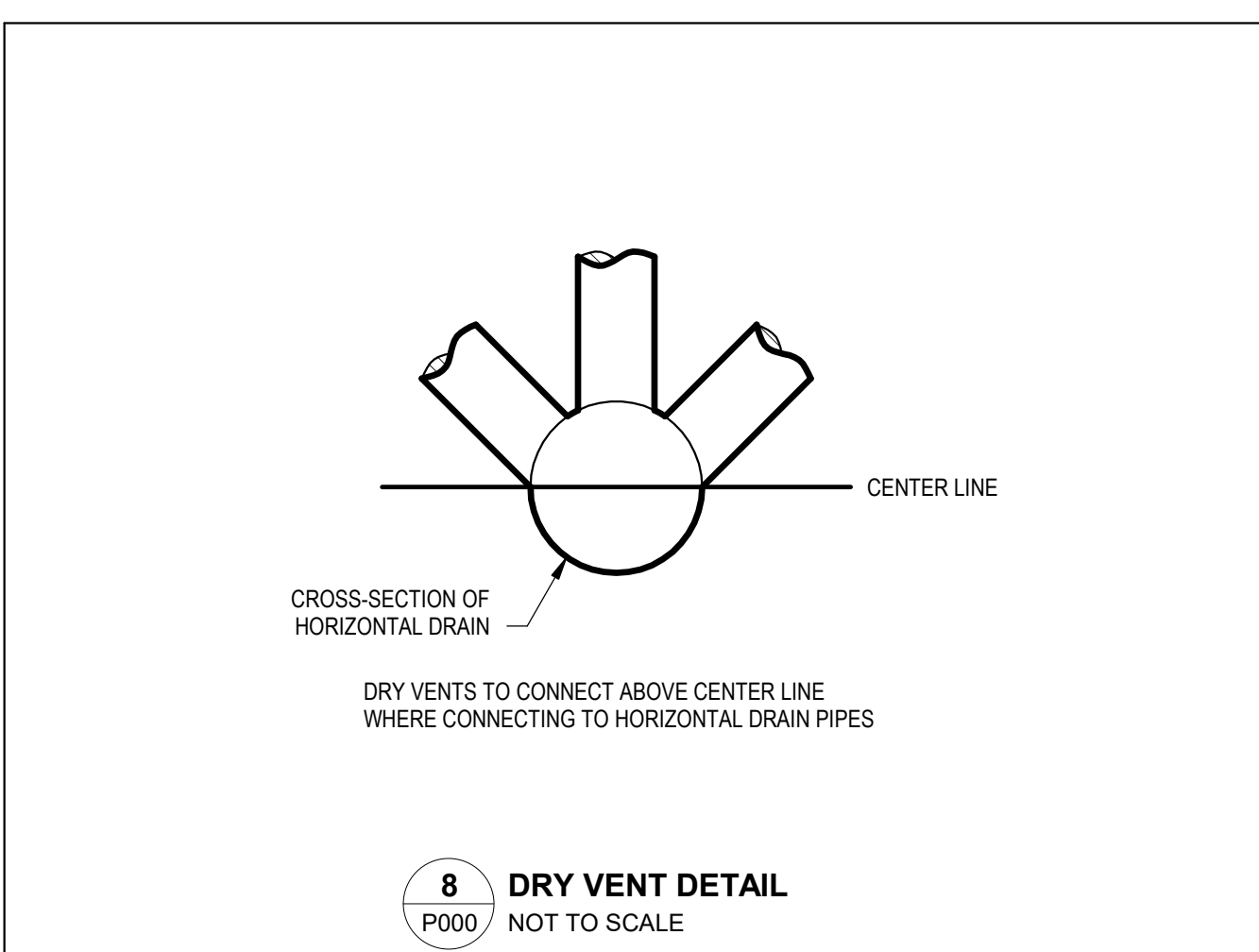
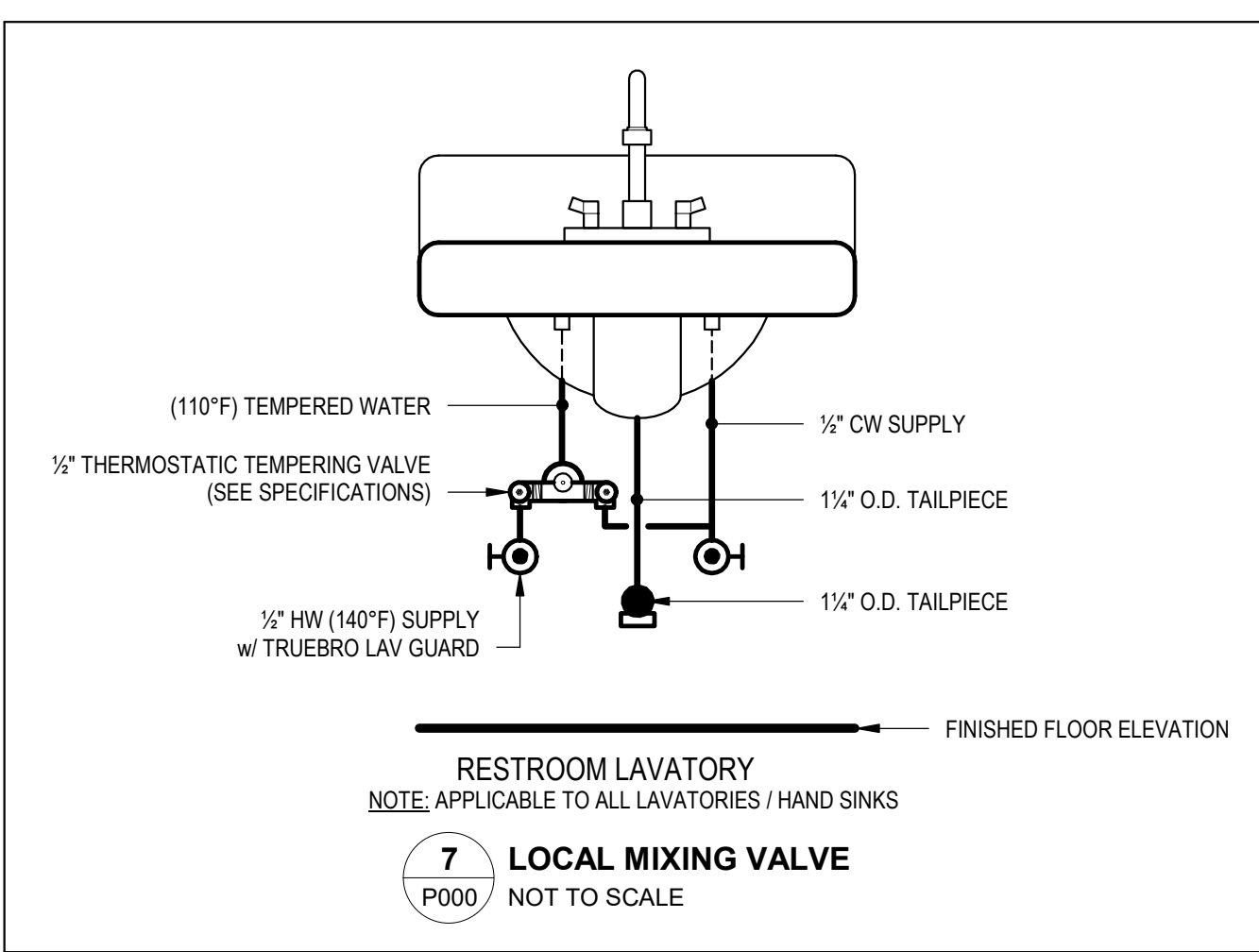
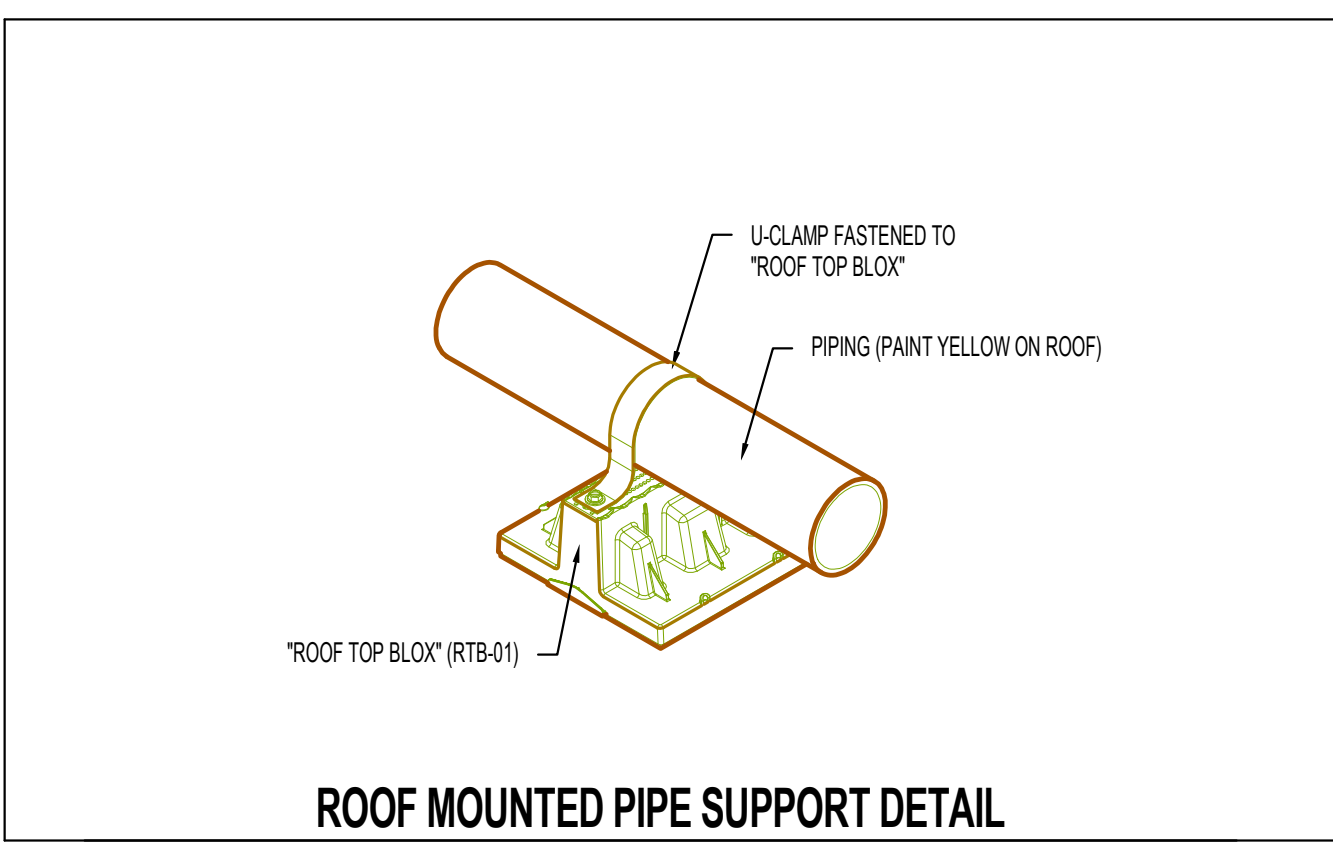
P000

PLUMBING SYMBOLS	GENERAL PLUMBING SPECIFICATIONS	EQUIPMENT ABBREVIATIONS																																																																																																																																				
	<ol style="list-style-type: none">SOME PIPING MAY HAVE BEEN SHOWN OFFSET FOR CLARITY ON DRAWINGS.PROVIDE OFFSETS AND TRANSITIONS AS NECESSARY TO AVOID OBSTRUCTIONS.FIELD VERIFY EXACT ROUTING OF PIPING. MOUNT PIPING FROM STRUCTURE ABOVE AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE. ROUTE PIPING PARALLEL OR PERPENDICULAR TO BUILDING LINES.INSTALL EXPOSED DOMESTIC WATER PIPING AT HIGHEST ELEVATION POSSIBLE, UNLESS OTHERWISE INDICATED.REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING AND LOCATIONS.BURIED EXTERIOR WASTE PIPING ELEVATION SHALL BE MINIMUM 30" BELOW GRADE. BURIED EXTERIOR DOMESTIC WATER PIPING ELEVATION SHALL BE MINIMUM 48" BELOW GRADE.SAW CUT EXISTING FLOOR AS REQUIRED TO INSTALL UNDERFLOOR PIPING. PATCH FLOOR TO MATCH ADJACENT FLOOR SURFACE ELEVATION.NO PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS.PERFORM EXCAVATING AND BACKFILLING IN ACCORDANCE WITH OSHA 29 CFR 1926.651ALL BRAZING & WELDING SHALL REQUIRE A HOT WORK PERMIT. COORDINATE ALL NECESSARY REQUIREMENTS WITH OWNER.USE CLEVIS-STYLE HANGERS TO SUPPORT PIPING EVERY 6'-0" WITH INSULATION PROTECTION SHIELDS AND ALL THREAD RODS FROM STRUCTURE ABOVE. NOT FROM OTHER PIPING, DUCTWORK, CONDUIT, AND SO FORTH. DO NOT SUPPORT OTHER PIPING, CEILING GRID, DUCTWORK, CONDUIT, AND SO FORTH FROM PIPING.PLUMBING FIXTURES SHALL BE AS INDICATED ON DRAWING. FINISH AND INSTALL CHROME STOP VALVES, SUPPLIES, ESCUTCHEONS AND TRAPS AS REQUIRED FOR ALL FIXTURES.ALL SEWER VENT TERMINATIONS SHALL BE LOCATED MINIMUM 10' HORIZONTALLY OR 3' HIGHER THAN ANY AIR INTAKE. PLUMBER IS RESPONSIBLE TO REDROUTE ANY VENT TERMINATIONS AS REQUIRED TO ACCOMPLISH THIS REQUIREMENT.	<table border="1"><thead><tr><th colspan="2">ABBREVIATIONS</th></tr></thead><tbody><tr><td>Ø</td><td>DIAMETER</td></tr><tr><td>ABV</td><td>ABOVE</td></tr><tr><td>AC</td><td>AIR CONDITIONING</td></tr><tr><td>AD</td><td>AREA DRAIN</td></tr><tr><td>ADD</td><td>ADDENDUM</td></tr><tr><td>AFF</td><td>ABOVE FINISHED FLOOR</td></tr><tr><td>ALT</td><td>ALTERNATE</td></tr><tr><td>AP</td><td>ACCESS PANEL</td></tr><tr><td>ARCH</td><td>ARCHITECT/ARCHITECTURAL</td></tr><tr><td>BFF</td><td>BELOW FINISHED FLOOR</td></tr><tr><td>BLW</td><td>BELOW MECHANICAL</td></tr><tr><td>BTU</td><td>BRITISH THERMAL UNITS</td></tr><tr><td>BTUH</td><td>BRITISH THERMAL UNITS PER HOUR</td></tr><tr><td>CA</td><td>CATCH BASIN</td></tr><tr><td>CFM</td><td>CUBIC FEET PER MINUTE</td></tr><tr><td>CEL</td><td>CEILING</td></tr><tr><td>CO</td><td>CLEAN OUT</td></tr><tr><td>CW</td><td>COLD WATER</td></tr><tr><td>DA</td><td>DIAMETER</td></tr><tr><td>DN</td><td>DOWN</td></tr><tr><td>DW</td><td>DISTILLED WATER</td></tr><tr><td>EACH</td><td>EACH</td></tr><tr><td>EDF</td><td>ELECTRIC DRINKING FOUNTAIN</td></tr><tr><td>ELEC</td><td>ELECTRICAL</td></tr><tr><td>EQUIP</td><td>EQUIPMENT</td></tr><tr><td>EIA</td><td>EXHAUST AIR</td></tr><tr><td>EXIST</td><td>EXISTING</td></tr><tr><td>F</td><td>DEGREES FAHRENHEIT</td></tr><tr><td>FCO</td><td>FLOOR CLEAN OUT</td></tr><tr><td>FD</td><td>FLOOR DRAIN</td></tr><tr><td>FLOOR</td><td>FLOOR</td></tr><tr><td>FO</td><td>FUEL OIL</td></tr><tr><td>FOV</td><td>FUEL OIL VENT</td></tr><tr><td>FOR</td><td>FUEL OIL RETURN</td></tr><tr><td>FOS</td><td>FUEL OIL SUPPLY</td></tr><tr><td>FPHB</td><td>FROST-PROOF HOSE BIBB</td></tr><tr><td>FS</td><td>FLOOR SINK</td></tr><tr><td>FT</td><td>FOOT/FEET</td></tr><tr><td>G</td><td>GAS</td></tr><tr><td>GAL</td><td>GALLON</td></tr><tr><td>GC</td><td>GENERAL CONTRACTOR</td></tr><tr><td>GPM</td><td>GALLONS PER MINUTE</td></tr><tr><td>GW</td><td>GREASE WASTE</td></tr><tr><td>HS</td><td>HOSE BIBB</td></tr><tr><td>HP</td><td>HORSE POWER</td></tr><tr><td>HTG</td><td>HEATING</td></tr><tr><td>HTR</td><td>HEATER</td></tr><tr><td>HW</td><td>HOT WATER</td></tr><tr><td>ET</td><td>EXPANSION TANK</td></tr><tr><td>EW</td><td>ELECTRIC WALL HEATER</td></tr><tr><td>FCU</td><td>FAN COIL UNIT</td></tr><tr><td>FP</td><td>FIRE PUMP</td></tr><tr><td>GI</td><td>GREASE INTERCEPTOR</td></tr><tr><td>GRV</td><td>GRAVITY ROOF VENTILATOR</td></tr><tr><td>HWP</td><td>HEATING WATER PUMP</td></tr><tr><td>HX</td><td>HEAT EXCHANGER</td></tr><tr><td>HRY</td><td>HEAT RECOVERY UNIT</td></tr><tr><td>HRV</td><td>HOT ROOF VENTILATOR</td></tr><tr><td>RE</td><td>RETURN/EXHAUST FAN</td></tr><tr><td>RTU</td><td>ROOFTOP UNIT</td></tr><tr><td>SEP</td><td>SEWAGE SELECTOR PUMP</td></tr><tr><td>SF</td><td>SUPPLY FAN</td></tr><tr><td>SFP</td><td>SUMP PUMP</td></tr><tr><td>LH</td><td>UNIT HEATER</td></tr><tr><td>WH</td><td>WATER HEATER</td></tr></tbody></table>	ABBREVIATIONS		Ø	DIAMETER	ABV	ABOVE	AC	AIR CONDITIONING	AD	AREA DRAIN	ADD	ADDENDUM	AFF	ABOVE FINISHED FLOOR	ALT	ALTERNATE	AP	ACCESS PANEL	ARCH	ARCHITECT/ARCHITECTURAL	BFF	BELOW FINISHED FLOOR	BLW	BELOW MECHANICAL	BTU	BRITISH THERMAL UNITS	BTUH	BRITISH THERMAL UNITS PER HOUR	CA	CATCH BASIN	CFM	CUBIC FEET PER MINUTE	CEL	CEILING	CO	CLEAN OUT	CW	COLD WATER	DA	DIAMETER	DN	DOWN	DW	DISTILLED WATER	EACH	EACH	EDF	ELECTRIC DRINKING FOUNTAIN	ELEC	ELECTRICAL	EQUIP	EQUIPMENT	EIA	EXHAUST AIR	EXIST	EXISTING	F	DEGREES FAHRENHEIT	FCO	FLOOR CLEAN OUT	FD	FLOOR DRAIN	FLOOR	FLOOR	FO	FUEL OIL	FOV	FUEL OIL VENT	FOR	FUEL OIL RETURN	FOS	FUEL OIL SUPPLY	FPHB	FROST-PROOF HOSE BIBB	FS	FLOOR SINK	FT	FOOT/FEET	G	GAS	GAL	GALLON	GC	GENERAL CONTRACTOR	GPM	GALLONS PER MINUTE	GW	GREASE WASTE	HS	HOSE BIBB	HP	HORSE POWER	HTG	HEATING	HTR	HEATER	HW	HOT WATER	ET	EXPANSION TANK	EW	ELECTRIC WALL HEATER	FCU	FAN COIL UNIT	FP	FIRE PUMP	GI	GREASE INTERCEPTOR	GRV	GRAVITY ROOF VENTILATOR	HWP	HEATING WATER PUMP	HX	HEAT EXCHANGER	HRY	HEAT RECOVERY UNIT	HRV	HOT ROOF VENTILATOR	RE	RETURN/EXHAUST FAN	RTU	ROOFTOP UNIT	SEP	SEWAGE SELECTOR PUMP	SF	SUPPLY FAN	SFP	SUMP PUMP	LH	UNIT HEATER	WH	WATER HEATER
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<ol style="list-style-type: none">EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY APPROVED BY OSHA.INSTALL EQUIPMENT WHILE MAINTAINING CLEARANCES AS RECOMMENDED BY MANUFACTURER AND REQUIRED BY APPLICABLE CODES AND STANDARDS.PROVIDE CONNECTIONS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPLICABLE CODES AND STANDARDS. COORDINATE CONNECTION REQUIREMENTS FOR FINAL EQUIPMENT SELECTIONS WITH OTHER AFFECTED TRADES.VERIFY FINAL CONNECTION SIZES WITH OWNER PROVIDED EQUIPMENT AND PROVIDE REQUIRED ISOLATION VALVES, CHECK VALVES, UNIONS, GAUGES, AND SO FORTH FOR A COMPLETE INSTALLATION.PROVIDE ENGRAVED PLASTIC LAMINATE NAMEPLATES ON ALL NEW EQUIPMENT. SURVEY BUILDING TO ENSURE THAT NAMES ARE UNIQUE AND CONSISTENT WITH EXISTING CONVENTIONS.																																																																																																																																						
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<ol style="list-style-type: none">REFERENCE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SITE UTILITIES.CONTACT THE LOCAL GAS COMPANY AND ARRANGE FOR GAS SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC., INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR WATER AND WASTE SERVICE INSTALLATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES.CONTACT THE LOCAL WATER DEPARTMENT AND ARRANGE FOR WATER AND WASTE SERVICES AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC., INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR WATER AND WASTE SERVICE INSTALLATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES.																																																																																																																																						
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<ol style="list-style-type: none">THIS PROJECT CONTAINS FIRE RATED ASSEMBLIES. LOCATIONS ARE INDICATED ON ARCHITECTURAL PLANS.ALL CONTRACTORS SHALL PROVIDE PROTECTION FOR THEIR PENETRATIONS THRU THESE ASSEMBLIES AS FOLLOWS:<ol style="list-style-type: none">FOR ALL PENETRATIONS THRU OR IN FIRE RATED VERTICAL OR HORIZONTAL ASSEMBLIES:<ol style="list-style-type: none">A UL LISTED PENETRATION FIRESTOP SYSTEM SHALL BE INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479 (IBC 714.3)GENERAL CONTRACTOR TO PROVIDE AND MAINTAIN A BOOK WITH ALL FIRE PENETRATION PROTECTIVE SYSTEMS THAT WILL BE USED ON THIS PROJECT. THIS BOOK MUST REMAIN ON SITE AT ALL TIMES.																																																																																																																																						
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<ol style="list-style-type: none">PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEMS INDICATED.OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATION SO THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS NECESSARY TO INSTALL ALL NEW PLUMBING SYSTEMS WITHIN THE CONFINES OF THE SPACES AVAILABLE AND WITHOUT INTERFERENCES.PLANS ARE INTENDED TO INDICATE THE GENERAL SCOPE OF WORK. DETAILS OF INSTALLATION COVERED BY CODE AND OTHER MINOR ITEMS NOT SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND ACCEPTABLE INDUSTRY STANDARDS. ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL SITE VERIFY EXISTING CONDITIONS.DURING CONSTRUCTION ALL FIXTURES, EQUIPMENT, PIPE, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDamaged. ALL Damaged ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERINGS SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.PROVIDE ALL CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NEEDED TO INSTALL MECHANICAL SYSTEMS. PATCHING WORK SHALL INCLUDE METHODS AND MATERIALS NEEDED FOR AFFECTED SURFACES TO MATCH ADJACENT AREAS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS WEATHERTIGHT.COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT EXISTING ROOF WARRANTY (IF ANY) WILL BE MAINTAINED.FIELD SUPPORT ALL MECHANICAL SYSTEM EQUIPMENT AND MATERIALS FROM STRUCTURE.CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.SPECIFIC MODELS ARE SPECIFIED TO ESTABLISH QUALITY ONLY. SUBSTITUTIONS MAY BE MADE WITH ENGINEER'S APPROVAL.ARCHITECTURAL DRAWING DIMENSIONS SHALL GOVERN IN ALL CASES. COORDINATE ENGINEERING DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR ALL EQUIPMENT LAYOUTS AND LOCATIONS.CONTRACTOR IS TO INCLUDE COSTS FOR ALL PERMITS, INSPECTIONS, TAPS, METERS & FUEL ASSOCIATED WITH HIS WORK.ALL SYSTEMS SHALL BE COMPLETE AND OPERABLE IN EVERY WAY.CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND UNDERSTANDING ALL DRAWINGS AND ASPECTS OF PROJECT SCOPE AND FOR INCLUDING IN HIS BID ALL WORK ASSOCIATED WITH HIS TRADE, REGARDLESS OF WHICH SHEET IT IS SHOWN ON.																																																																																																																																						

PLUMBING FIXTURE SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER*	MODEL*	REMARKS
DF1	DRINKING FOUNTAIN	Elay	EZSLBWSLK	H/ LOW WITH BOTTLE FILLER
FBV	FLOW BALANCING VALVE	NEXUS	DYNAMIC ND	PRESSURE INDEPENDENT FLOW VALVE. SEE DWG FOR GPM
FD1	FLOOR DRAIN	Zurn Industries, LLC	ZN415-SB	WITH PROSET T033-ZURN TRAP GUARD
LAV1	LAVATORY	American Standard	9482_000	WITH ZURN Z81104-XL FAUCET & MV
NST	Map Service Basin	Zurn Industries, LLC	Z1966-24	WITH CHICAGO FAUCET B97 FAUCET
MV	MIXING VALVE	WATTS	LFUSG-B	3/8" POINT OF USE THERMOSTATIC
RP1	RECIRCULATION PUMP	Grundfos	UP15	
UR1	URINAL	AMERICAN STD.	6550.001	WHITE, WITH ZURN Z-6003AV FLUSH VALVE (MANUAL)
WC1	WATER CLOSET	American Standard	Z15AA.10A.020	WHITE, WITH CHURCH 265SSCT SEAT
WH1	WATER HEATER	AO SMITH	DEN-40	WITH EXPANSION TANK - WATTS PLT-12

* OR EQUAL

PLUMBING FIXTURE CONNECTION SCHEDULE					
FIXTURE	COLD	HOT	WASTE	VENT	WATER HAMMER ARRESTOR REQUIRED
LAVATORY	1/2"	1/2"	2"	1 1/2"	YES
WATER CLOSET - FLUSH VALVE	1"	-	4"	2"	YES
WATER CLOSET - TANK	1/2"	-	4"	2"	YES
URINAL	3/4"	-	2"	1 1/2"	YES
MOP SINK	3/4"	3/4"	3"	1 1/2"	NO
HAND SINK	1/2"	1/2"	2"	1 1/2"	NO
HAIR SINK	1/2"	1/2"	2"	1 1/2"	NO
SHOWER	1/2"	1/2"	3"	1 1/2"	NO
FLOOR DRAIN	-	-	PER DWGS	1 1/2"	NO
DRINKING FOUNTAIN	1/2"	1/2"	2"	1 1/2"	NO



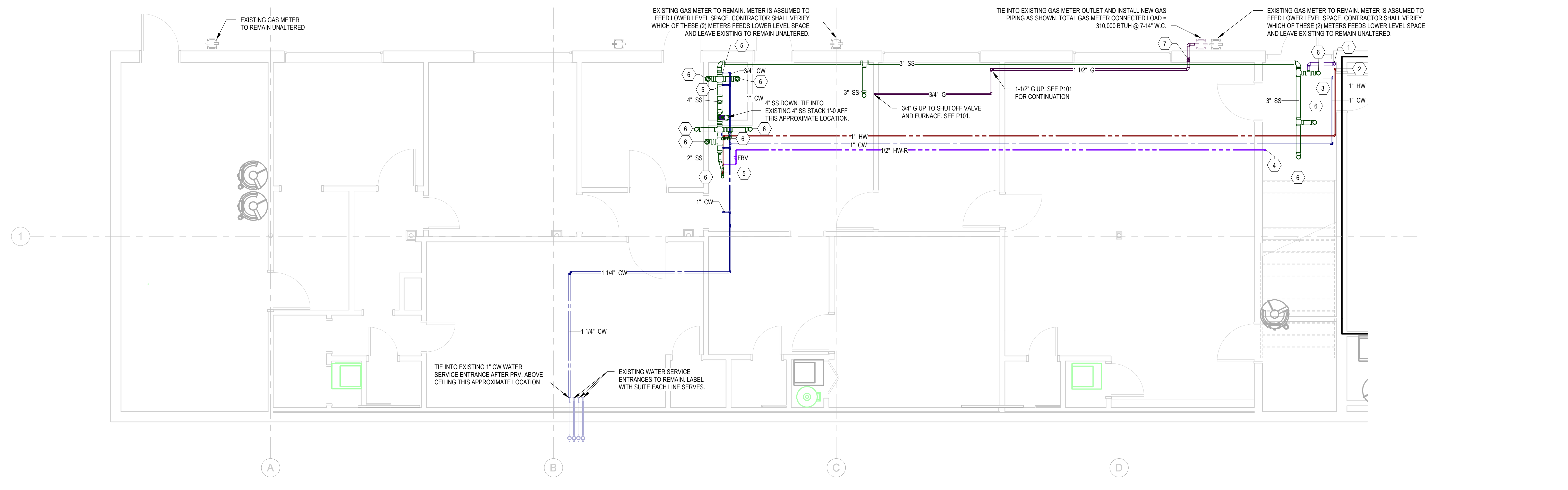
36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

GENERAL PLAN NOTES

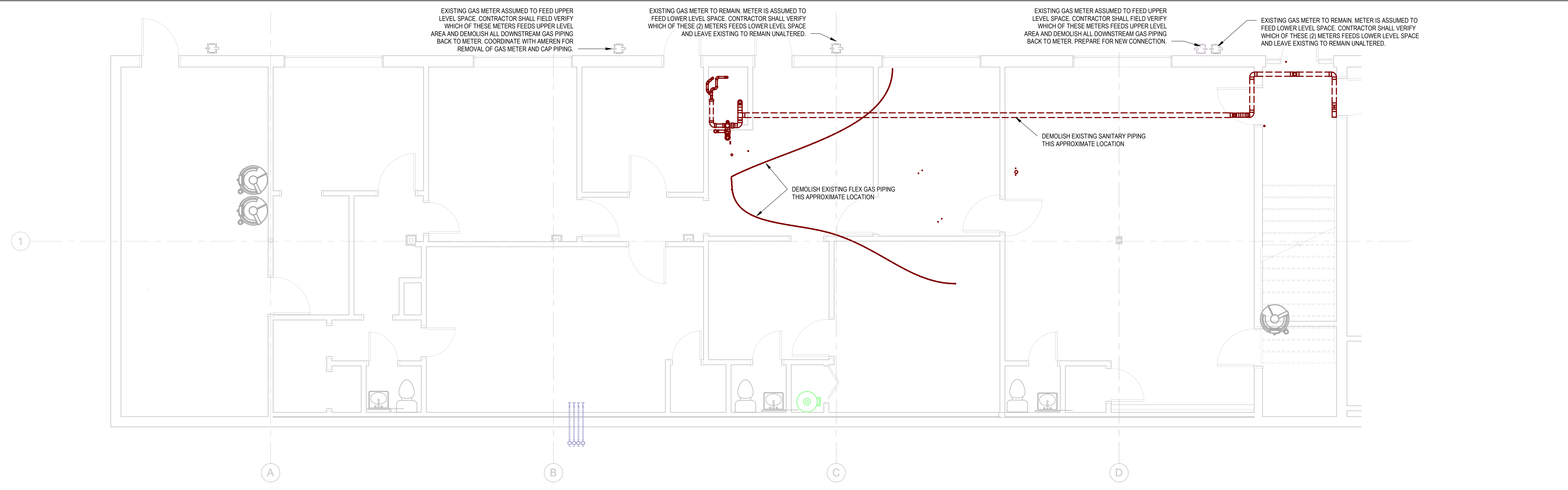
1. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
2. PITCH UNDERFLOOR SANITARY WASTE PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER SANITARY WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
3. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
4. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM. WASTE PIPING BELOW SLAB SHALL BE MINIMUM 3".
5. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
6. ALL PIPING SHOWN THIS SHEET SHALL BE ROUTED ABOVE BASEMENT CEILING SPACE UNLESS NOTED OTHERWISE.

PLUMBING KEY NOTES

1	2" V UP
2	1" HW FROM ABOVE
3	1" CW UP
4	1/2" HW-R UP
5	3/4" CW UP
6	SS UP TO PLUMBING FIXTURE
7	ROUTE GAS PIPING UP IN EXTERIOR WALL TO ABOVE CEILING SPACE. EXISTING WALL SHALL BE CUT, PATCHED AND PAINTED PER ARCHITECTURAL PLAN DETAILS.



PLUMBING PLAN BASEMENT A | N1
SCALE: 1/4" = 1'-0"



PLUMBING PLAN BASEMENT A DEMO | B1
SCALE: 1/4" = 1'-0"

8/2/2023 4:14:42 PM

36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

INTERNATIONAL ARCHITECTS ATELIER
912 BROADWAY BLVD, SUITE 300 | KANSAS CITY, MO 64105
P: 816.471.6522 | F: 816.471.3755 | W: I-A-A.COM
MISSOURI STATE CERTIFICATE OF AUTHORITY #000582

MEP CONSULTANT
CUSTOM ENGINEERING
PROJ. NO.: COL22108
CUSTOM ENGINEERING
912 OLD HIGHWAY 63 SOUTH
COLUMBIA, MO 65201
PH: 573.875.4365
MISSOURI STATE CERTIFICATE OF AUTHORITY #000239

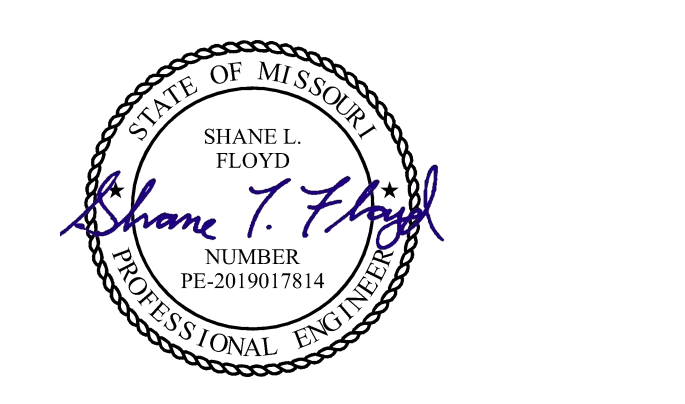
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SECURITY SCIENCES INSTITUTE RENOVATION

ISSUED FOR BID
909 LESLIE BLVD
JEFFERSON CITY, MO 65101

DATE:	08/02/2023
PROJ. NO.:	221202
DESIGNED BY:	MH
DRAWN BY:	MH
CHECKED BY:	SF
APPROVED BY:	SF



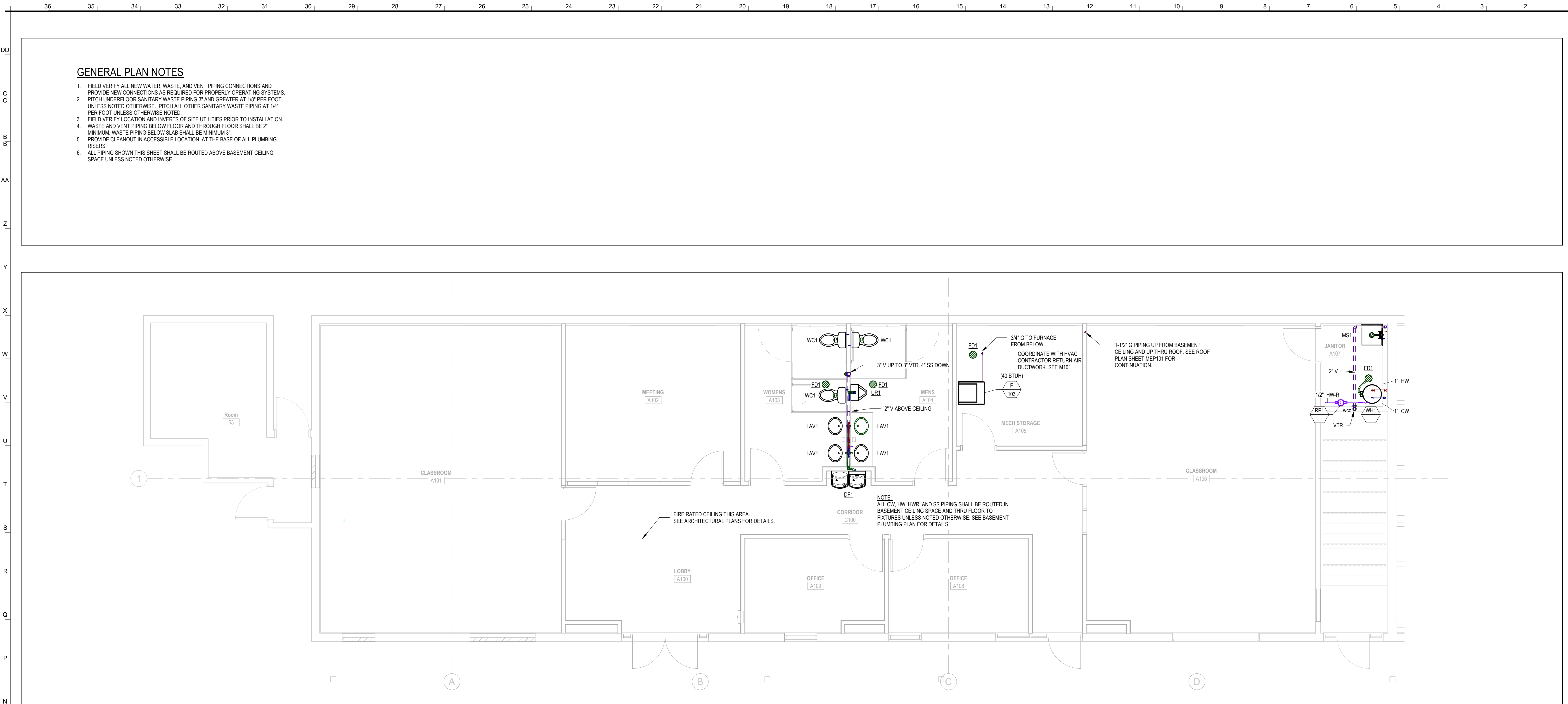
SHANE L. FLOYD
PE-2019017814
AUG. 2, 2023

THE PROFESSIONAL ENGINEER'S SEAL ON THIS DRAWING HAS BEEN AFFIXED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 327, RSMO. IN AFFIXING THIS SEAL, THE ENGINEER TAKES RESPONSIBILITY FOR THE WORK SHOWN ON THIS DRAWING ONLY, AND HEREBY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR OTHER PROJECT DRAWINGS NOT DIRECTLY BEARING THIS SEAL.

NO.	REVISION	SUBMISSION	DATE
0	ISSUED FOR BID		08/02/2023

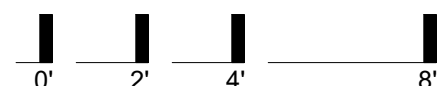
PLUMBING PLAN BASEMENT SUITE A

P001

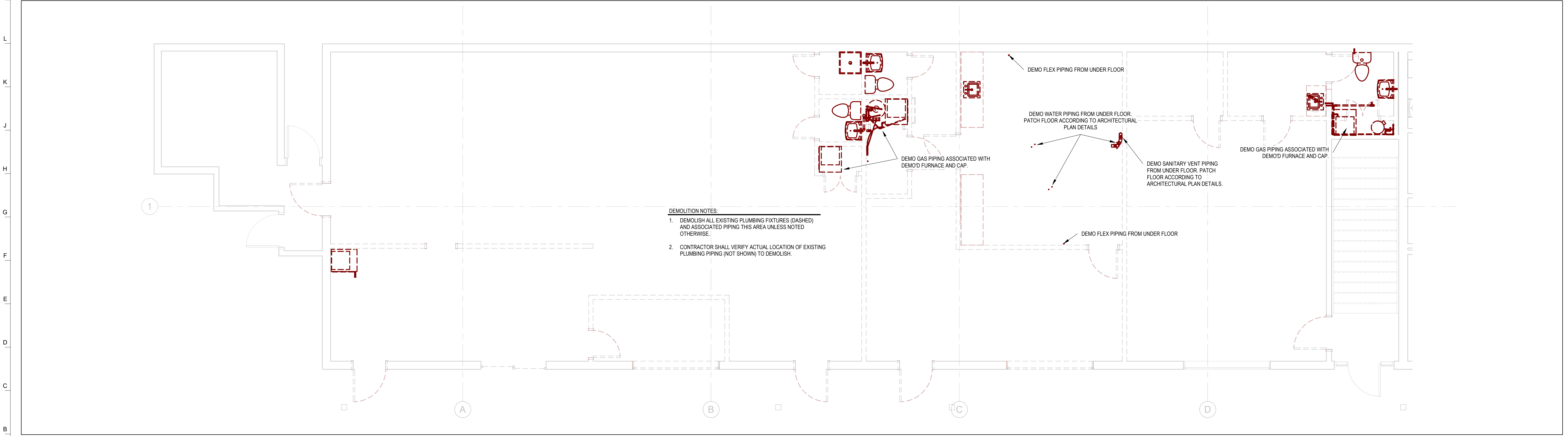


GENERAL PLAN NOTES

1. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
2. PITCH UNDERFLOOR SANITARY WASTE PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER SANITARY WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
3. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
4. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM. WASTE PIPING BELOW SLAB SHALL BE MINIMUM 3".
5. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
6. ALL PIPING SHOWN THIS SHEET SHALL BE ROUTED ABOVE BASEMENT CEILING SPACE UNLESS NOTED OTHERWISE.



PLUMBING PLAN FIRST FLOOR A | N1
SCALE: 1/4" = 1'-0"



- DEMOLITION NOTES:**
1. DEMOLISH ALL EXISTING PLUMBING FIXTURES (DASHED) AND ASSOCIATED PIPING THIS AREA UNLESS NOTED OTHERWISE.
 2. CONTRACTOR SHALL VERIFY ACTUAL LOCATION OF EXISTING PLUMBING PIPING (NOT SHOWN) TO DEMOLISH.



PLUMBING PLAN FIRST FLOOR A DEMO | B1
SCALE: 1/4" = 1'-0"

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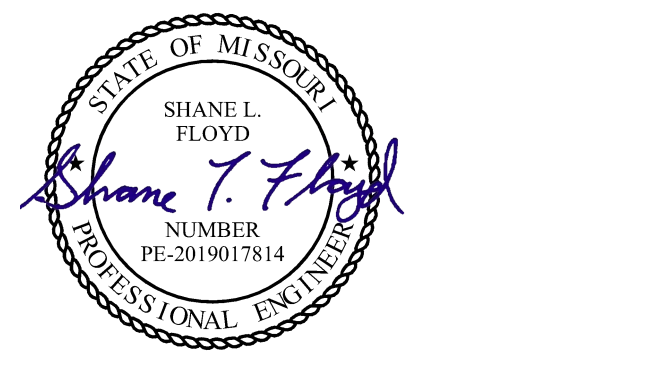


SECURITY SCIENCES INSTITUTE RENOVATION

ISSUED FOR BID

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DATE:	08/02/2023
PROJ. NO.:	221202
DESIGNED BY:	MH
DRAWN BY:	MH
CHECKED BY:	SF
APPROVED BY:	SF



SHANE L. FLOYD
PE-2019017814
AUG. 2, 2023

THE PROFESSIONAL ENGINEER'S SEAL ON THIS DRAWING HAS BEEN AFFIXED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 327, RSMO. IN AFFIXING THIS SEAL, THE ENGINEER TAKES RESPONSIBILITY FOR THE WORK SHOWN ON THIS DRAWING ONLY, AND HEREBY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR OTHER PROJECT DRAWINGS NOT DIRECTLY BEARING THIS SEAL.

NO.	REVISION SUBMISSION	DATE
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PLUMBING PLAN FIRST FLOOR SUITE A

P101