

# CMURC / RRIP-IT RENOVATION

## 2625 DENISON DRIVE, MOUNT PLEASANT, MICHIGAN 48858

EDA AWARD NO. 06-01-06375

**OWNER** CENTRAL MICHIGAN UNIVERSITY  
PHILIP TANNER - PROJECT MANAGER  
UNIVERSITY ENGINEERING AND PLANNING  
200 COMBINED SERVICES BUILDING  
MOUNT PLEASANT, MI 48858  
989.774.1910

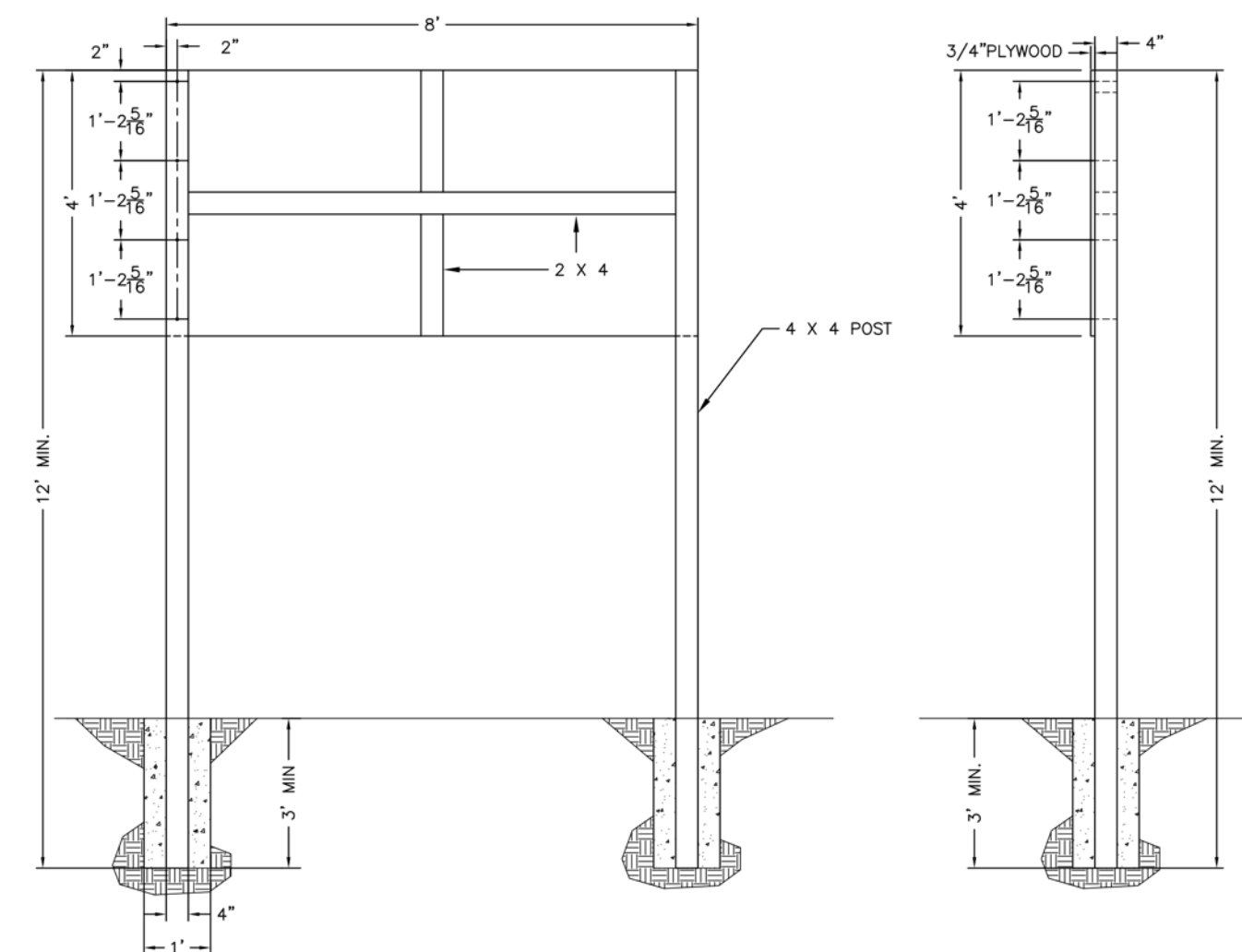
**TENANT** CMURC  
ERIN STRANG  
2625 DENISON DRIVE  
MOUNT PLEASANT, MI 48858  
517.204.1835

**ARCHITECT** NEUMANN/SMITH ARCHITECTURE  
UNIQUE ENTITY ID (UEI) #ECLCGYUF72B7  
400 GALLERIA OFFICENTRE, SUITE 555  
SOUTHFIELD, MI 48034  
248.352.8310

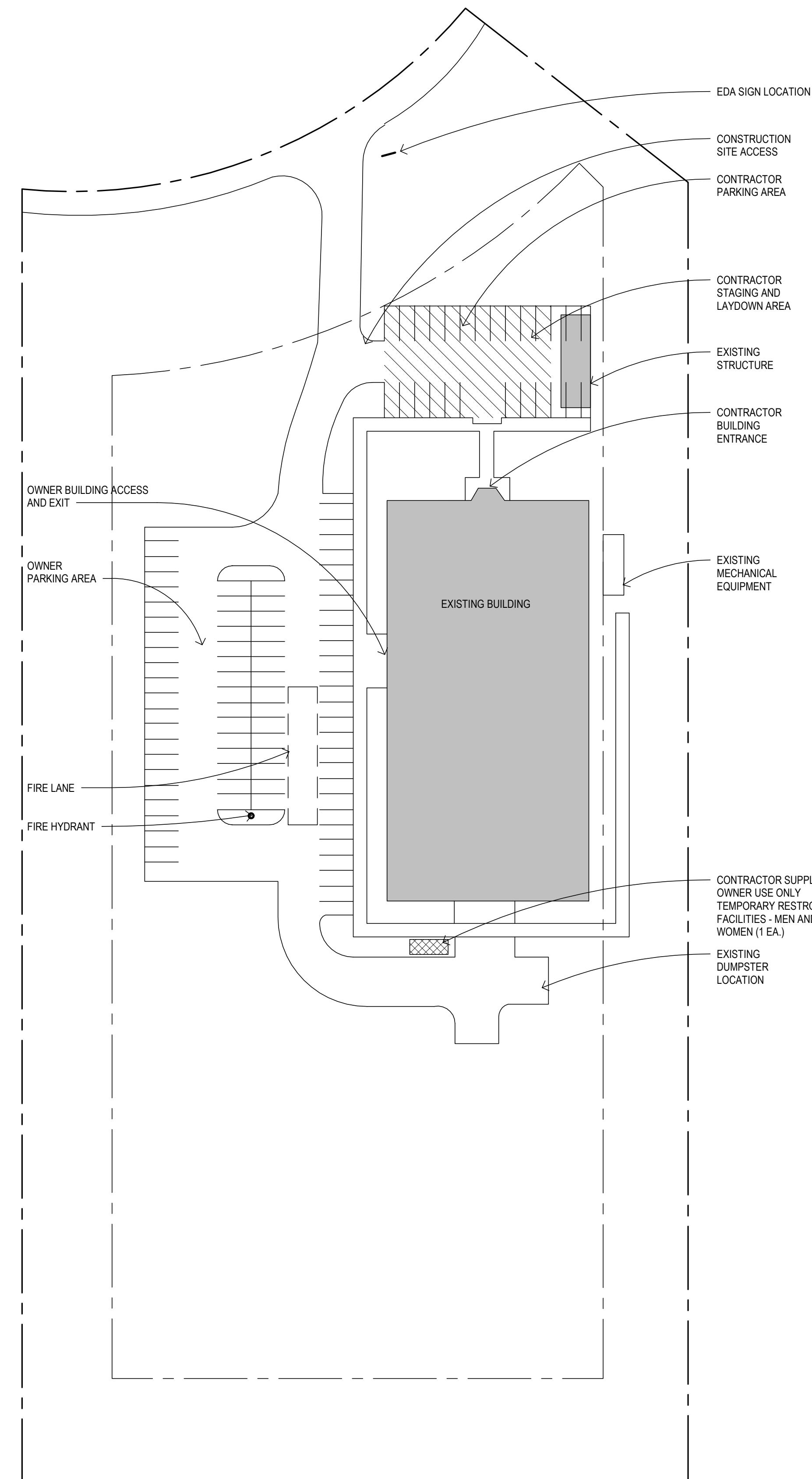
**MECH/ELECT/PLUMB ENGINEER** PETER BASSO & ASSOCIATES  
5145 LIVERNOIS, SUITE 100  
TROY, MICHIGAN 48098  
248.879.5666

EDA PROJECT SIGN  
THE CONTRACTOR SHALL SUPPLY, ERECT, AND MAINTAIN IN GOOD CONDITION A PROJECT SIGN ACCORDING TO THE SPECIFICATIONS SET FORTH BELOW:  
**EDA SITE SIGN SPECIFICATIONS**  
SIZE: 4' X 8' X 3/4"  
MATERIALS: EXTERIOR GRADE/MDO PLYWOOD (APA RATING A-B)  
SUPPORTS: 4" X 4" X 12' POSTS WITH 2" X 4" CROSS BRANCHING  
ERECTION: POSTS SHALL BE SET A MINIMUM OF THREE FEET DEEP IN CONCRETE FOOTINGS THAT ARE AT LEAST 12" IN DIAMETER.  
PAINT: OUTDOOR ENAMEL  
COLORS: JET BLACK, BLUE (PMS300), AND GOLD (PMS7406), SPECIFICALLY, ON WHITE BACKGROUND THE FOLLOWING WILL BE PLACED:  
THE U.S. DEPARTMENT OF COMMERCE ECONOMIC DEVELOPMENT ADMINISTRATION IN BLACK  
"In partnership with" IN BLUE  
(ACTUAL NAME OF THE "EDA Grant Recipient" IN BLACK  
LETTERING: SPECIFIC FONTS ARE NAMED BELOW; POSITIONING WILL BE AS SHOWN ON THE ILLUSTRATION  
"US DEPARTMENT OF COMMERCE ECONOMIC DEVELOPMENT ADMINISTRATION" ISE BANK GOTHIC MED.  
"In partnership with" USE UNIVERS 55 OBLIQUE  
(NAME OF "EDA Grant Recipient" USE UNIVERS 85

PROJECT SIGNS WILL NOT BE ERECTED ON PUBLIC HIGHWAY RIGHTS-OF-WAY, IF ANY POSSIBILITY EXISTS FOR OBSTRUCTION TO TRAFFIC LINE OF SIGHT, THE LOCATION AND HEIGHT OF THE SIGN WILL BE COORDINATED WITH THE AGENCY RESPONSIBLE FOR HIGHWAY OR STREET SAFETY IN THE AREA.  
THE EDA REGIONAL DIRECTOR MAY PERMIT MODIFICATIONS TO THESE SPECIFICATIONS IF THEY CONFLICT WITH STATE LAW OR LOCAL ORDINANCES.



2 EDA CONSTRUCTION SIGN  
A001 SCALE: 1" = 50'-0"

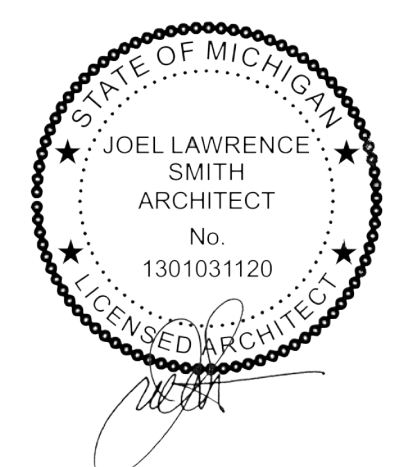


1 NORTH  
1 SITE PLAN  
A001 SCALE: 1" = 50'-0"

INDEX OF DRAWINGS	
04/28/2023 - BID AND CONSTRUCTION SET	
04/14/2023 - 95% CONSTRUCTION DOCUMENTS SET	
3/31/2023 95% DESIGN DEVELOPMENT	
03/17/2023 100% SCHEMATIC DESIGN SET	
02/10/2023 CONCEPTUAL PRICING PACKAGE	
NO.	SHEET TITLE
<b>GENERAL</b>	
	A001 TITLE SHEET
	A002 ARCHITECTURAL DRAWING STANDARDS
	A003 PARTITION TYPES
<b>ARCHITECTURAL</b>	
	A011 CODE COMPLIANCE DATA
	A012 DEMOLITION FLOOR PLAN
	A013 DEMOLITION REFLECTED CEILING PLAN
	A031 FINISH KEY
	A041 DOOR SCHEDULE
	A111 FIRST FLOOR PLAN
	A112 FIRST FLOOR ENLARGED PLANS
	A121 MEZZANINE PLAN
	A311 INTERIOR ELEVATIONS
	A351 INTERIOR SECTION DETAILS
	A361 MILLWORK DETAILS
	A362 INTERIOR PLAN DETAILS
	A401 ENLARGED TOILET PLANS
	A611 FIRST FLOOR REFLECTED CEILING PLAN
	A711 FIRST FLOOR FINISH PLAN
	A712 FIRST FLOOR FURNITURE PLAN (FOR REFERENCE ONLY)
<b>STRUCTURAL</b>	
	S.001 STRUCTURAL GENERAL NOTES AND SYMBOLS
	S.003 STRUCTURAL SPECIAL INSPECTION
	S.101 STRUCTURAL PLANS AND DETAILS
<b>PLUMBING</b>	
	PD001 FIRST FLOOR ENLARGED PLUMBING DEMOLITION PLAN
	P101 FIRST FLOOR ENLARGED PLUMBING PLAN
<b>MECHANICAL</b>	
	M001 MECHANICAL STANDARDS AND DRAWINGS INDEX
	M002 MECHANICAL SCHEDULES
	MD301 FIRST FLOOR ENLARGED HVAC PIPING DEMOLITION PLAN
	MD401 FIRST FLOOR ENLARGED SHEET METAL DEMOLITION PLAN
	M201 FIRST FLOOR ENLARGED HVAC PIPING PLAN
	M401 FIRST FLOOR ENLARGED SHEET METAL PLAN
	M601 MECHANICAL DETAILS
	M701 TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES
<b>ELECTRICAL</b>	
	E001 ELECTRICAL STANDARDS AND DRAWING INDEX
	E002 ELECTRICAL STANDARD SCHEDULES
	ED101 FIRST FLOOR ENLARGED LIGHTING DEMOLITION PLAN
	ED201 FIRST FLOOR ENLARGED POWER DEMOLITION PLAN
	E101 FIRST FLOOR ENLARGED LIGHTING PLAN
	E201 FIRST FLOOR ENLARGED POWER PLAN
	E01 ONE LINE DIAGRAM
	E02 ONE LINE DIAGRAM
	E03 PANEL SCHEDULES
	E701 LIGHTING SCHEDULES & ELECTRICAL DETAILS
	E702 LIGHTING SCHEDULES & ELECTRICAL DETAILS

### DEDUCT ALTERNATES

- ALTERNATE 1: OPEN OFFICE ACOUSTIC Baffles  
DELETE AB-1 IN OPEN OFFICE RM 1064. EXPOSED CEILING, LIGHTING AND MECHANICAL TO REMAIN AS SHOWN.
- ALTERNATE 2: DEMOUNTABLE WALL PARTITIONS (RM 1020 THROUGH 1024)  
DELETE DEMOUNTABLE WALL PARTITIONS FOR ROOMS 1020, 1021, 1022, 1023, AND 1024. CEILING CONDITIONS, INCLUDING ELECTRICAL AND MECHANICAL CONDITIONS, TO REMAIN AS SHOWN. ALL RELATED POWER POLES, GYPSUM BOARD WALL ASSEMBLIES, AND FINISH FLOOR MATERIALS TO REMAIN AS SHOWN.
- ALTERNATE 3: DEMOUNTABLE WALL PARTITIONS (RM 1016 THROUGH 1019)  
DELETE DEMOUNTABLE WALL PARTITIONS FOR ROOMS 1016, 1017, 1018, AND 1019. CEILING CONDITIONS, INCLUDING ELECTRICAL AND MECHANICAL CONDITIONS, TO REMAIN AS SHOWN. ALL RELATED POWER POLES, GYPSUM BOARD WALL ASSEMBLIES, AND FINISH FLOOR MATERIALS TO REMAIN AS SHOWN.
- ALTERNATE 4: DEMOUNTABLE WALL PARTITIONS (RM 1025 THROUGH 1028)  
DELETE DEMOUNTABLE WALL PARTITIONS FOR ROOMS 1025, 1026, 1027, AND 1028. CEILING CONDITIONS, INCLUDING ELECTRICAL AND MECHANICAL CONDITIONS, TO REMAIN AS SHOWN. ALL RELATED POWER POLES, GYPSUM BOARD WALL ASSEMBLIES, AND FINISH FLOOR MATERIALS TO REMAIN AS SHOWN.
- ALTERNATE 5: V.I.P. SUITE MILLWORK  
DELETE MILLWORK AS SHOWN IN V.I.P. SUITE ROOM 1063. EXISTING MILLWORK TO REMAIN IN LIEU OF NEW MILLWORK.
- ALTERNATE 6: WORK CAFE MILLWORK  
DELETE MILLWORK AS INDICATED IN WORK CAFE ROOM 1055. PROVIDE FLOOR FINISH TO MATCH ADJACENT SCHEDULED FLOORING IN LIEU OF MILLWORK. PROVIDE ALL ELECTRICAL ROUGH-INS FOR FUTURE APPLIANCES.



**CMU**  
CENTRAL MICHIGAN UNIVERSITY  
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CENTRAL MICHIGAN UNIVERSITY  
2625 DENISON DRIVE, MOUNT PLEASANT, MI 48858  
CMURC / RRIP-IT RENOVATION  
ARCHITECTURAL  
TITLE SHEET

### DRAWING SET INFO

100% SCHEMATIC DESIGN REVIEW	<input type="checkbox"/>
95% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
90% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
95% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
90% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
95% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
BID AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
RECORD DRAWINGS - AS BUILT SET	<input type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

### ADDENDUM/BULLETIN REVISIONS

DATE	DESCRIPTION

### SCALE

DRAWN BY:	KT
CHECKED BY:	PH
APPROVED BY:	SC

### SHEET NO.

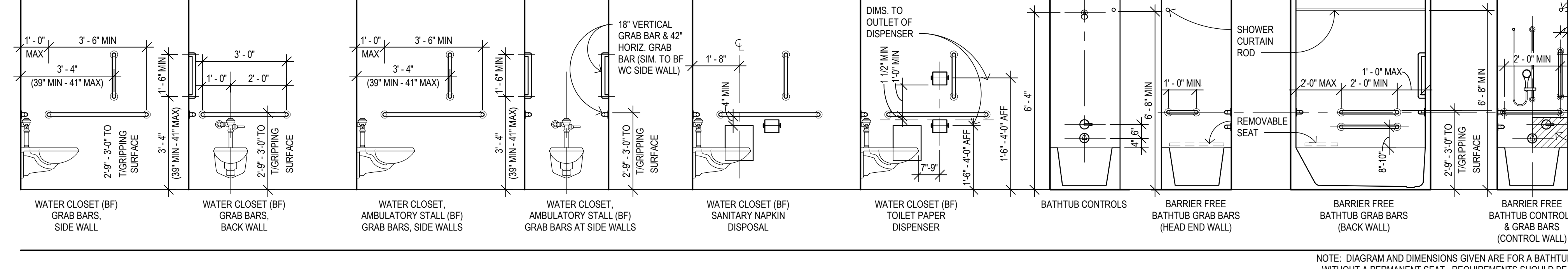
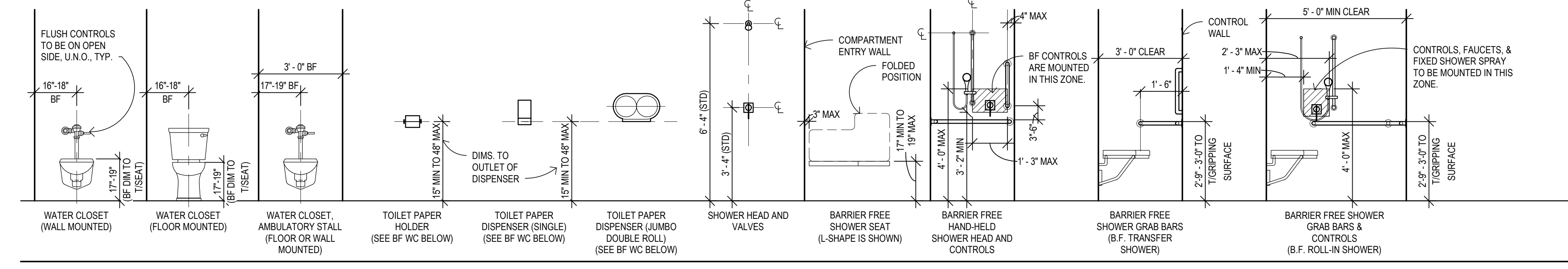
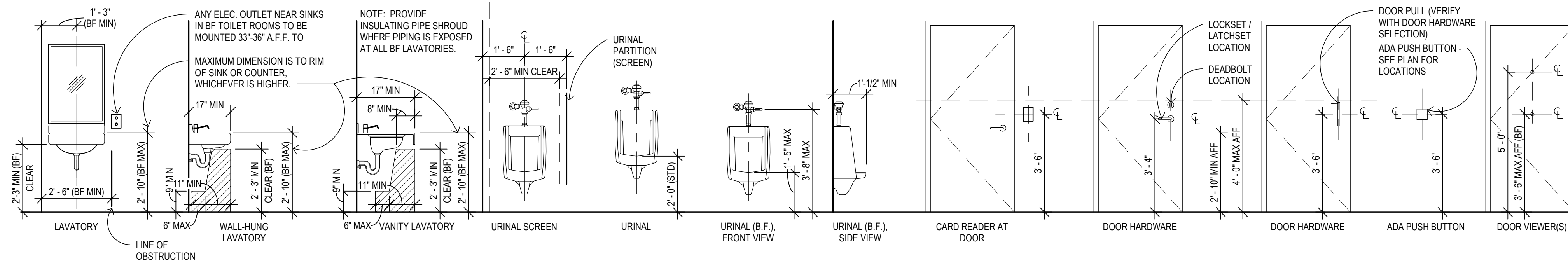
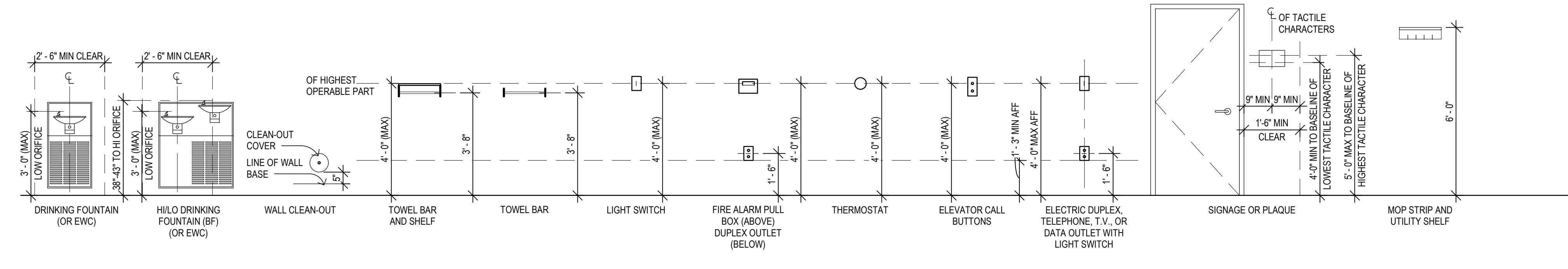
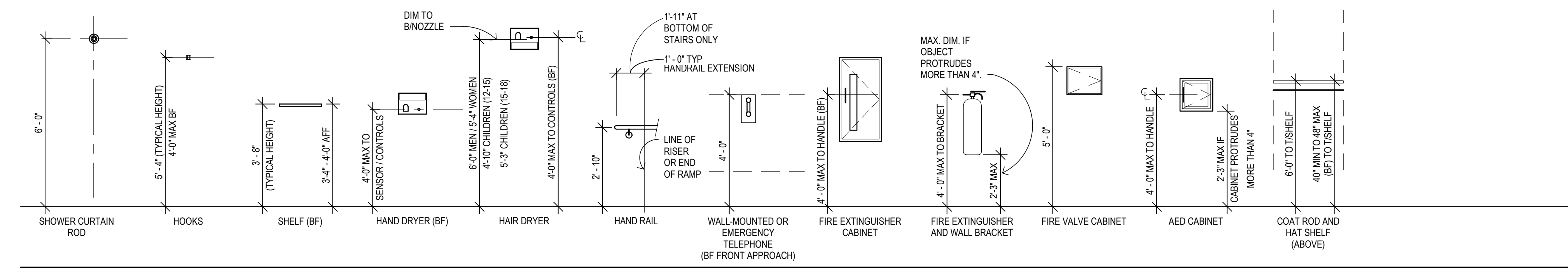
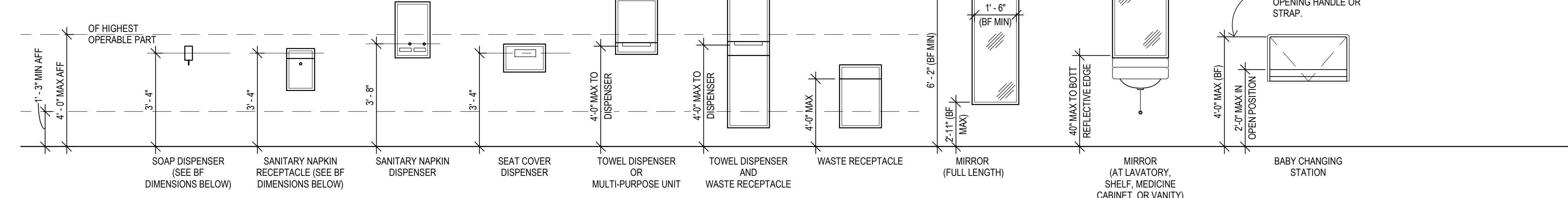
**A001**  
A/E PROJECT NO.  
2022081  
CMU PROJECT NO.  
655113



TYPICAL MOUNTING HEIGHT LEGEND

GENERAL NOTES:

- 1. MOUNTING HEIGHTS SHOWN ARE PROPOSED FOR ALL ACCESSORIES AND FIXTURES REQUIRED UNLESS OTHERWISE NOTED OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS.
2. PROVIDE IN-WALL BLOCKING FOR ALL WALL-MOUNTED COMPONENTS.
3. BF DENOTES BARRIER-FREE REQUIREMENTS.
4. ALL DIMENSIONS FROM FLOOR ARE TAKEN FROM FINISH FLOOR.
5. CONTRACTOR IS TO NOTIFY ARCHITECT IF ACCESSORY TO BE PROVIDED IS NOT ILLUSTRATED IN THE DIAGRAMS BELOW OR ON DRAWINGS.

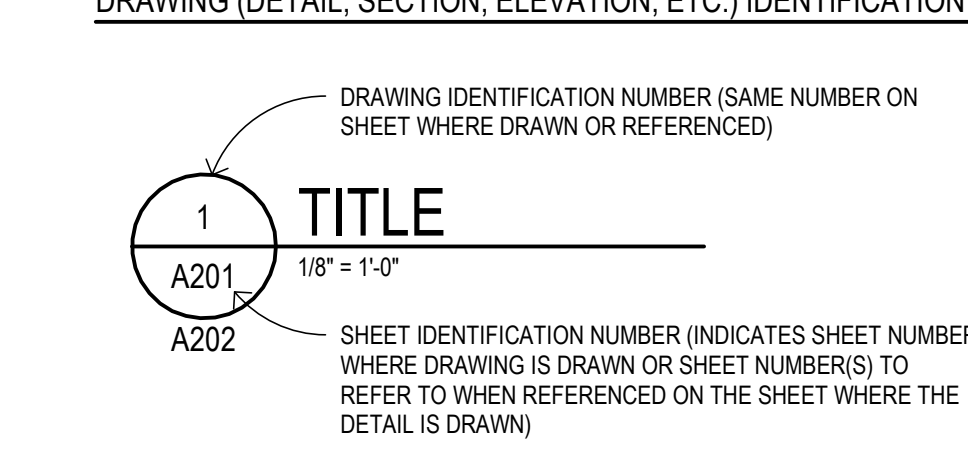


STANDARD ABBREVIATIONS

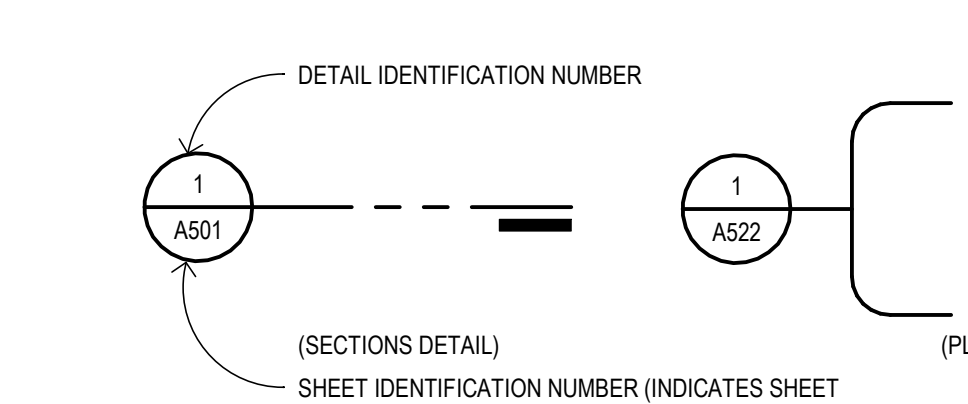
Table of standard abbreviations including ACP (Acoustic Ceiling Panel), ADD (Addendum), AESS (Architecturally Exposed Structural Steel), ALT (Alternate), ALUM (Aluminum), ANOD (Anodized), AP (Acrylic Panels), BO (Board), BOB (Barrier-Free Building), BOS (Bottom of Steel), BULL (Bulletin), CB (Concrete Brick), CG (Corner Guard), CJ (Control Joints), CL (Center Line), CO (Ceiling), CLO (Closet), CMU (Concrete Masonry Unit), COL (Column), CONC (Concrete), CONC-S (Concrete-Sealed), CPT (Carpet), CPTB (Carpet Base), CW (Cold Water), DCMU (Decorative Concrete Masonry Unit), DEFS (Direct-Applied Exterior Finish System), DEMO (Demolition), DIA (Diameter), DIM (Dimension), DN (Down), DS (Downspout), DISH (Dishwasher), DWG(S) (Drawing(s)), EA (Each), EAS (Exterior Insulation and Finish System), EJ (Expansion Joint), EL (Elevation), EM (Emergency), EOS (Edge of Slab), EQ (Equal), EWP (Equipment), EW (Electric Water Cooler), EX (Existing), EXST (Existing), EXP (Expansion), FAB (Fabric), FD (Floor Drain), FE (Fire Extinguisher), FEC (Fire Extinguisher Cabinet), FHC (Fire Hose Cabinet), FND (Foundation), FRP (Fiberglass Reinforced Panel), FRT (Fire Retardant Treated Foot), FT (Foot), FWC (Fabric Wall Covering), FWP (Fabric Wrapped Panel), FWTP (Fabric Wrapped Tackable Panel), GAL (Gauge), GALV (Galvanized), GB (Gypsum Board), GFR (Glass Fiber Reinforced Concrete), GL (Glass), GLB (Glass Block), GLT (Glass Tile), GMB (Glass Marker Board), GA (Galvanized), GB (Gypsum Board), GFR (Glass Fiber Reinforced Concrete), GL (Glass), GLB (Glass Block), GLT (Glass Tile), GMB (Glass Marker Board), HM (Hollow Metal), HW (Hot Water), EX (Existing), HPC (High Performance Coating), HT (Height), IIC (Impact Isolation Class), IN (Inch), INCL (Including), INSL (Insulation), JC (Janitor's Closet), LAV (Lavatory), LF (Linear Foot), LN (Linoletum), LLH (Long Leg Horizontal), LV (Long Vertical), LVS (Linoletum Tackable Surface), LVT (Luxury Vinyl Tile), MAT (Entrance Mat), MAX (Maximum), MB (Marker Board), MECH (Mechanical), MFR (Manufacturer), MIN (Minimum), MISC (Miscellaneous), MJ (Movement Joint), MO (Masonry Opening), REIN (Reinforced), REINFC (Reinforcing), REQ (Required), RES (Resilient Flooring), RD (Roof Drain), NIC (Not in Contract), NTS (Not to Scale), OC (On Center), OD (Outside Diameter), OFCI (Owner Furnished, Contractor Installed), OP (Opposite), OPOI (Owner Furnished, Owner Installed), P (Paint), PNF (Pre-Finished), PL (Plastic Laminant), PSF (Pounds per Square Foot), PWS (Pounds per Square Inch), PVC (Polyvinyl Chloride), T (Tile), TB (Tile Base), TBO (To Be Determined), TAG (Tongue and Groove), QT (Quarry Tile), QTB (Quarry Tile Base), QZ (Quartz, Natural Stone), RB (Resilient Base), REF (Refrigerator), REIN (Reinforced), REQ (Required), RES (Resilient Flooring), RD (Roof Drain), RF (Rubber Flooring), RO (Rough Opening), RP (Resin Panel), RTR (Resilient Treads/Sers), SF (Sport Flooring), SFN (Owner Furnished, Contractor Installed), SIM (Similar), SPEC (Specification), LF (Linear Foot), SQ (Square Feet), SS (Stainless Steel), SSM (Solid Surface Material), STC (Sound Transmission Coefficient), ST (Stone), STN (Stain), T (Tile), TB (Tile Base), TBO (To Be Determined), TAG (Tongue and Groove), QT (Quarry Tile), QTB (Quarry Tile Base), QZ (Quartz, Natural Stone), RB (Resilient Base), REF (Refrigerator), REIN (Reinforced), REQ (Required), RES (Resilient Flooring), RD (Roof Drain), UL (Underwriter's Laboratory), UNO (Unless Noted Otherwise), URH (Urinal), UR (Urinal), VCT (Vinyl Composition Tile), VERT (Vertical), VIF (Verify in Field), WC (Water Closet), WD (Wood), WDB (Wood Base), WDF (Wood Flooring), WLC (Wall Covering), WPF (Waterproofing), WP (Work Point), WU (Wood), UNO (Unless Noted Otherwise), URH (Urinal), UR (Urinal), VCT (Vinyl Composition Tile), VERT (Vertical), VIF (Verify in Field), WC (Water Closet), WD (Wood), WDB (Wood Base), WDF (Wood Flooring), WLC (Wall Covering), WPF (Waterproofing), WP (Work Point), WU (Wood)

REFERENCE SYMBOLS

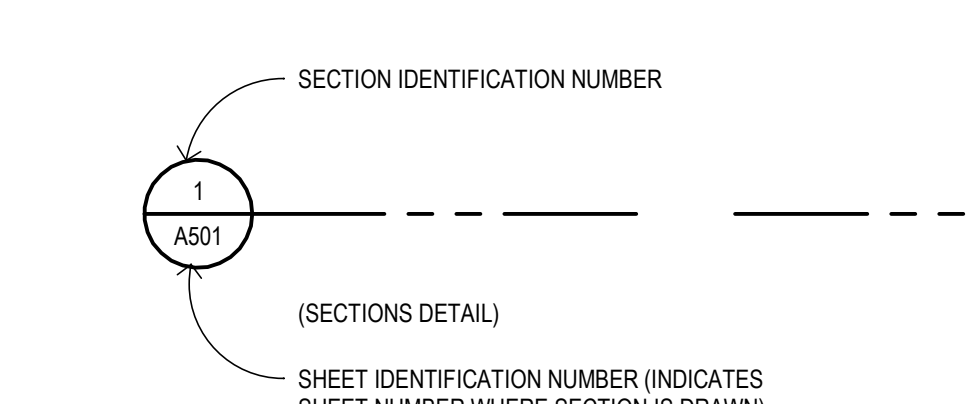
DRAWING (DETAIL, SECTION, ELEVATION, ETC.) IDENTIFICATION



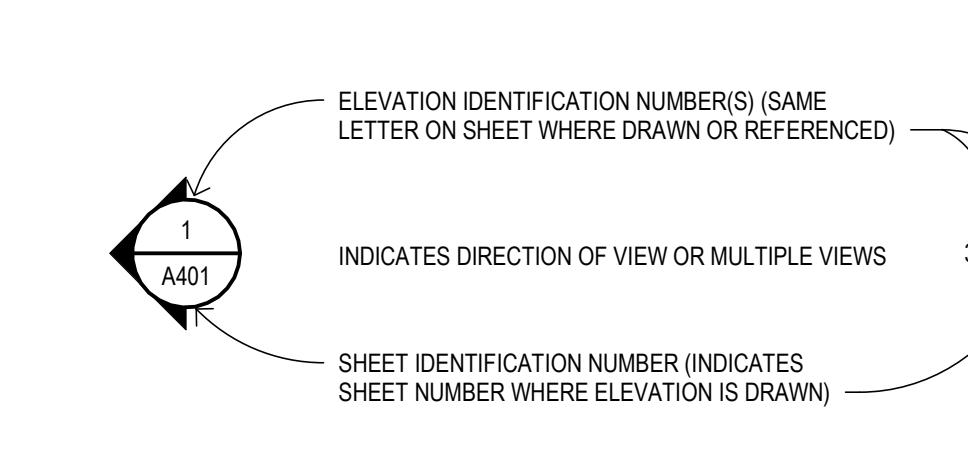
DETAIL LOCATION INDICATION



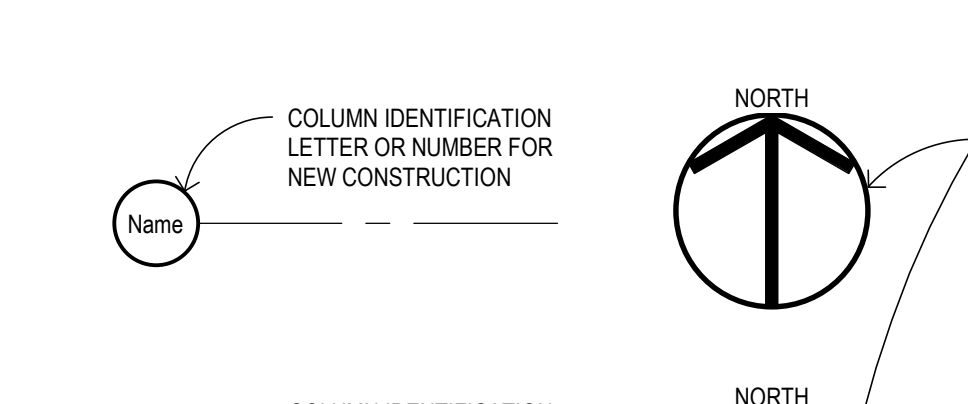
SECTION LOCATION INDICATION



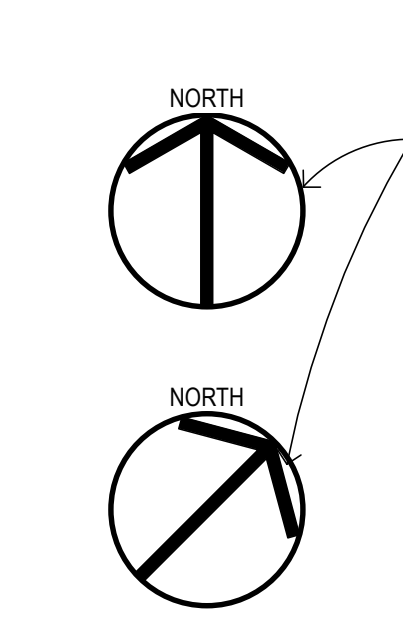
ELEVATION INDICATION



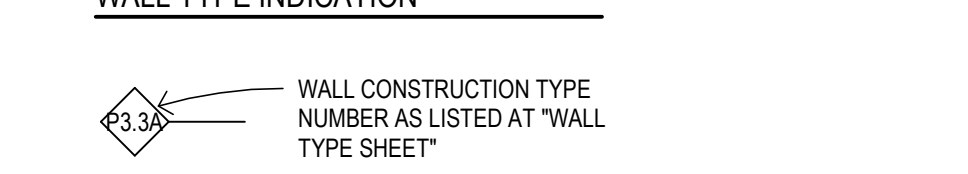
COLUMN INDICATION



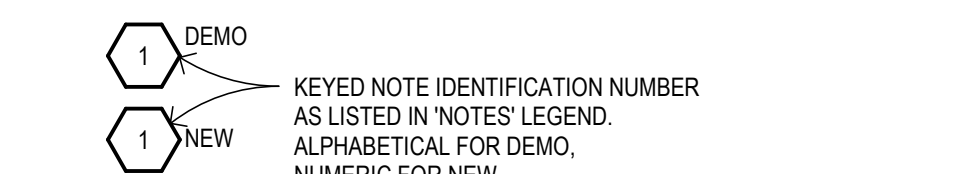
NORTH INDICATION



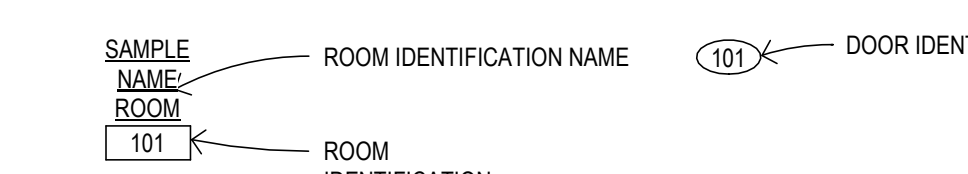
WALL TYPE INDICATION



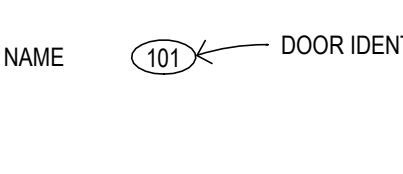
KEYED NOTE INDICATION



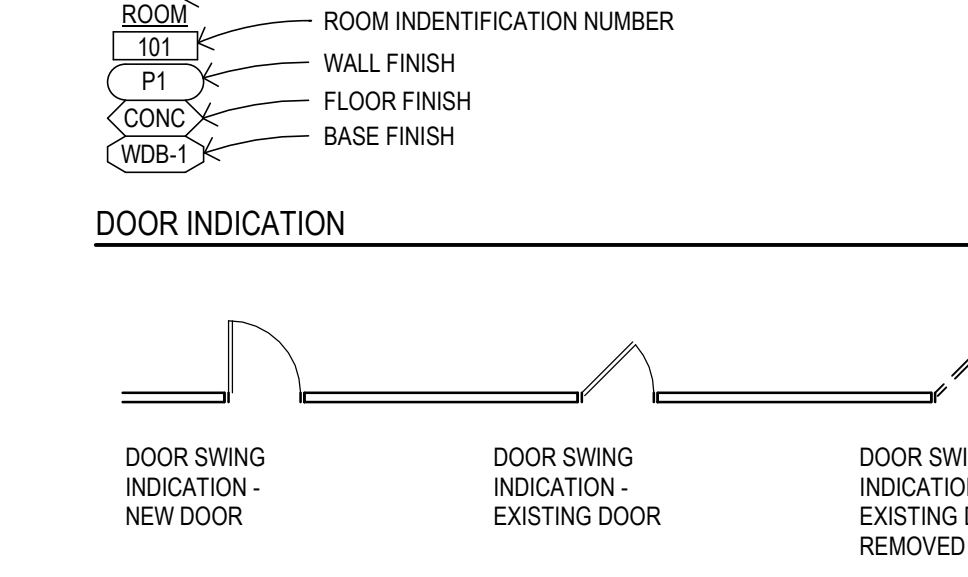
ROOM NAME & NUMBER



DOOR INDICATION



DOOR INDICATION



CMU CENTRAL MICHIGAN UNIVERSITY UNIVERSITY ENGINEERING & PLANNING OFFICE FACILITIES MANAGEMENT 206 COMBINED SERVICES BUILDING MOUNT PLEASANT, MI 48859 OFFICE: (989)774-6559 FAX: (989)774-6187

NEUMANN SMITH architecture SOUTHFIELD • DETROIT 400 Galleria OfficeCentre Suite 555 Southfield, Michigan 48034 phone 248.352.8310 fax 248.352.1821 www.neumannsmith.com

CENTRAL MICHIGAN UNIVERSITY 2526 DENISON DRIVE, MOUNT PLEASANT, MI 48858 CMURC / RRP-IT RENOVATION ARCHITECTURAL DRAWING STANDARDS

DRAWING SET INFO table with columns for drawing type, date, and status.

ADDENDUM/BULLETIN REVISIONS

Table for addendum/bulletin revisions with columns for date and description.

SCALE, SHEET NO. A002, A/E PROJECT NO. 2022081, CMU PROJECT NO. 655113, and a professional seal for Joell Lawrence Smith, Architect.



DRAWING SET INFO

Table with 2 columns: Description and Status (checkbox). Includes items like 100% SCHEMATIC DESIGN REVIEW, 50% DESIGN DEVELOPMENT REVIEW, etc.

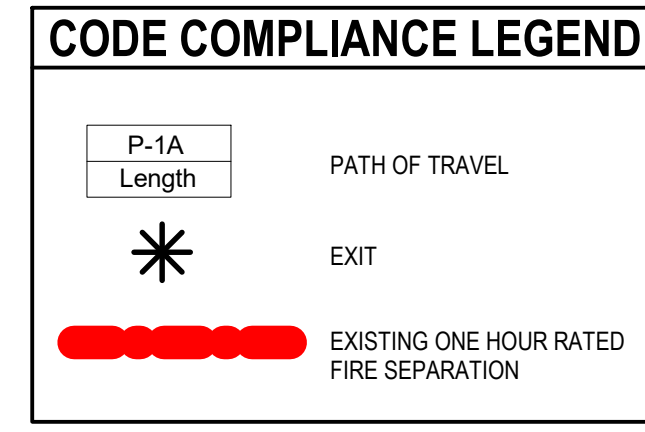
ADDENDUM/BULLETIN REVISIONS

Table with 2 columns: DATE and DESCRIPTION. Includes revision 1 with description 'RECORD DRAWINGS - AS BUILT SET'.

SCALE: 1/16" = 1'-0"  
DRAWN BY: KT  
CHECKED BY: PH  
APPROVED BY: SC

SHEET NO. A011  
A/E PROJECT NO. 2022081  
CMU PROJECT NO. 655113

72" WIDE DOOR (MBC)  
72" / 15 INCHES / OCC = 480 OCC MAX  
30 OCCUPANTS REQUIRED



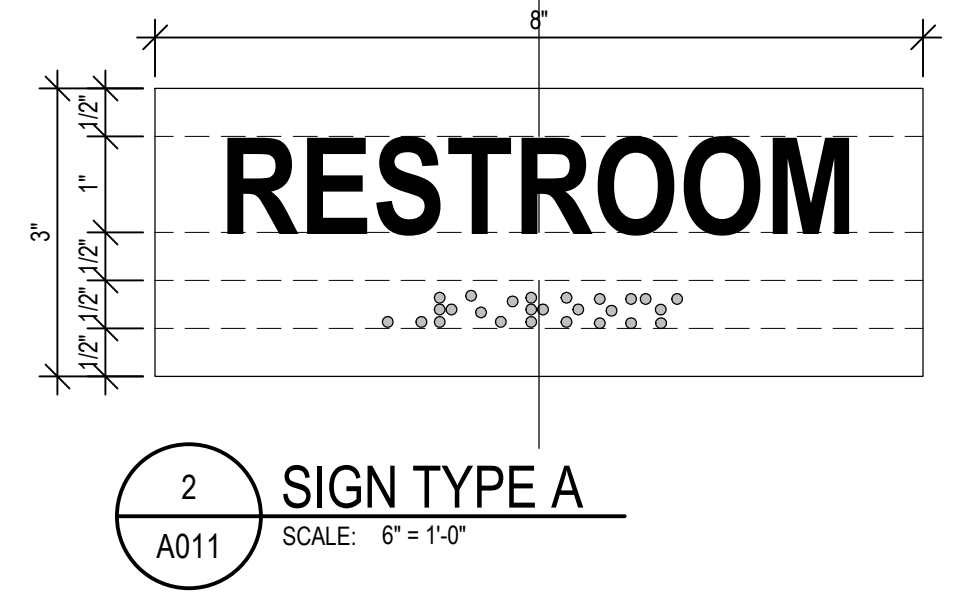
CODES OF JURISDICTION table with columns for Building Code, Barrier Free Code, Energy Code, Plumbing Code, Mechanical Code, and Electrical Code.

PLUMBING FIXTURE CRITERIA - MPC 2015 table with columns for Occupancy, Occupancy Load, and Plumbing Fixture Counts (Water Closets, Lavatories, Urinals, Drinking Fountains, Service Sinks).

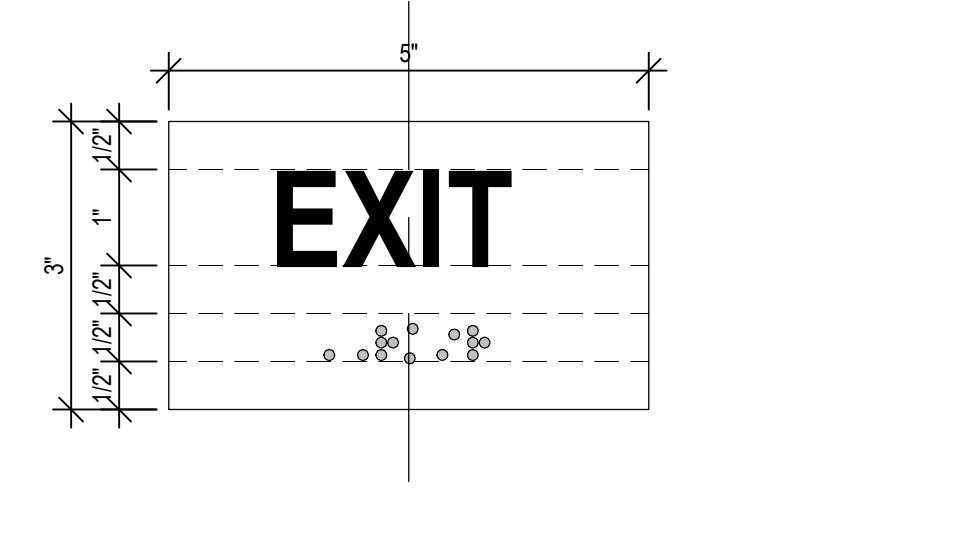
CODE COMPLIANCE DATA table with multiple rows detailing building specifications such as Allowable Single Floor Code Area, Actual Proposed Code Gross Floor Areas, Building Height, and Means of Egress Requirements.

OCCUPANCY ANALYSIS - table with columns for Room Number/Function, Gross Area, SF / PERSON, and Occupant Load.

INTERIOR SIGNAGE table with columns for Room Number, Room Name, Sign Type, and Remarks.



MATERIAL: 1/2" THICK PVC WITH / 6" WHITE PHOTO POLYMER.  
HEIGHT: 1' TEXT WITH 1/2" SPACING  
FONT: OPTIMA  
CASE: UPPER CASE  
COLOR: WHITE SIGN WITH RAISED CHARCOAL  
GRAY COPY  
PLACEMENT: SEE SIGNAGE MOUNTING EIGHT LEGEND ON A002  
NOTES: 1/2" TACTILE BRAILLE TO MATCH TEXT

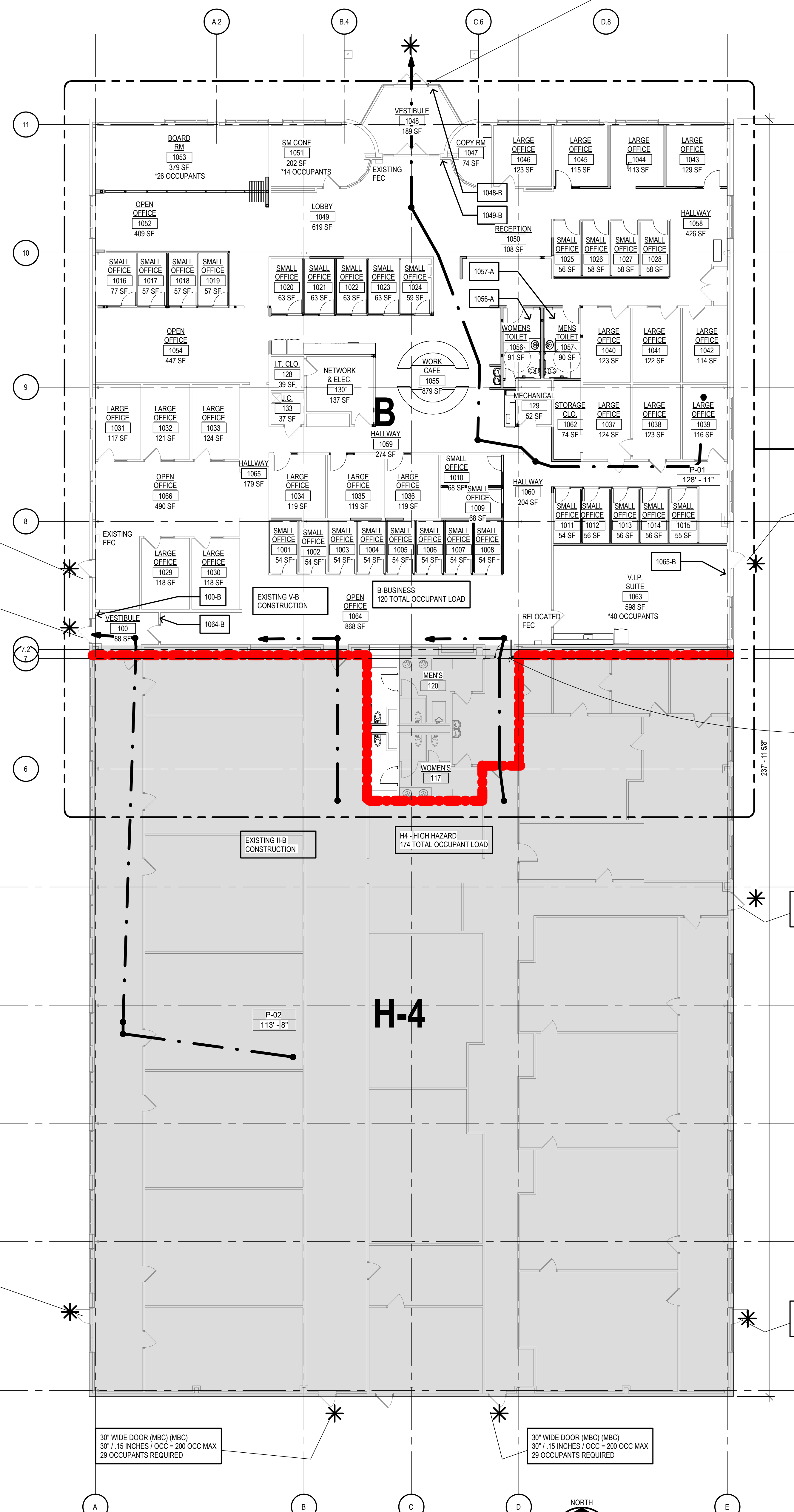


MATERIAL: 1/2" THICK PVC WITH / 6" WHITE PHOTO POLYMER.  
HEIGHT: 1' TEXT WITH 1/2" SPACING  
FONT: OPTIMA  
CASE: UPPER CASE  
COLOR: WHITE SIGN WITH RAISED CHARCOAL  
GRAY COPY  
PLACEMENT: SEE SIGNAGE MOUNTING EIGHT LEGEND ON A002  
NOTES: 1/2" TACTILE BRAILLE TO MATCH TEXT

30" WIDE DOOR (MBC)  
30" / 15 INCHES / OCC = 200 OCC MAX  
30 OCCUPANTS REQUIRED

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30" / 15 INCHES / OCC = 200 OCC MAX  
29 OCCUPANTS REQUIRED

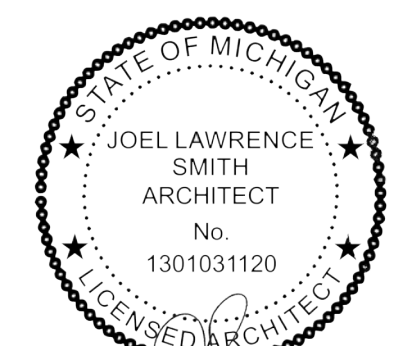


30" WIDE DOOR (MBC)  
30" / 15 INCHES / OCC = 200 OCC MAX  
29 OCCUPANTS REQUIRED

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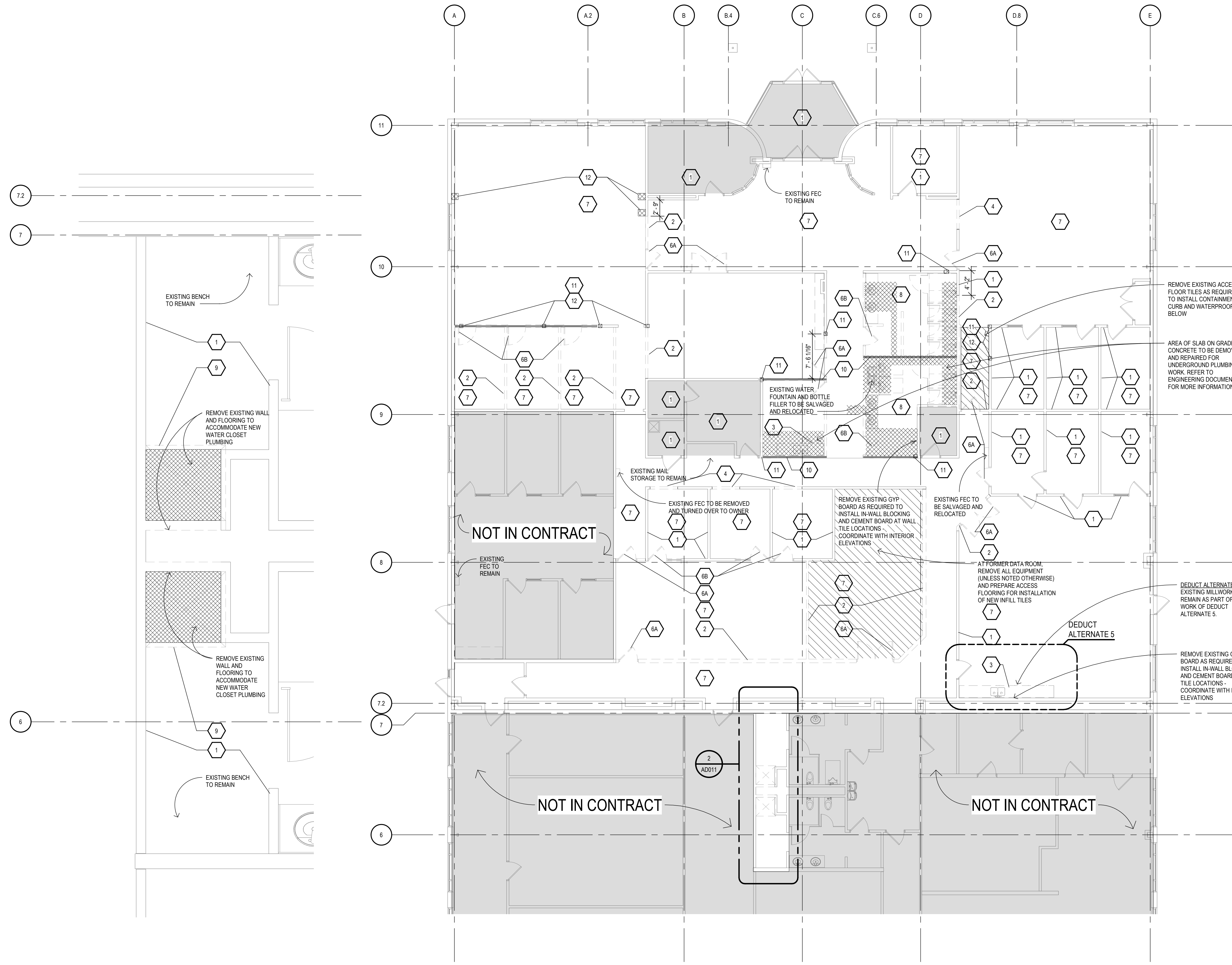


1 CODE COMPLIANCE PLAN  
A011 SCALE: 3/32" = 1'-0"



GENERAL DEMOLITION NOTES

- 1. DEMOLITION SUBCONTRACTOR MUST ARRANGE FOR A TOUR OF THE AREA OF WORK WITH THE CONTRACTOR BEFORE PREPARING AND SUBMITTING BIDS TO CLARIFY SPECIFIC DEMOLITION REQUIREMENTS THROUGHOUT THE ENTIRE AREA OF WORK AND TO VERIFY ALL DIMENSIONS, CONDITIONS AND QUANTITIES OF ITEMS BEING REMOVED.
2. THE SCOPE OF DEMOLITION WORK ITEMIZED IN THESE ARCHITECTURAL DOCUMENTS (WITHIN THE BOUNDARY OF THE NEW WORK AREA) IS REPRESENTATIVE OF A "SNAP-SHOT IN TIME" AND MAY NOT SPECIFICALLY REPRESENT EXACT CONDITIONS AT THE TIME OF BIDDING. CONTRACTOR MUST DOCUMENT AND SUBMIT ANY CLARIFICATIONS/QUESTIONS FROM THE TOUR/WALK-THROUGH TO THE ARCHITECT AND OWNER.
3. VERIFICATION
A. ORIGINAL CONSTRUCTION DOCUMENTS OF THE EXISTING BUILDING ARE AVAILABLE UPON REQUEST FROM THE OWNER. ACCURACY OF THESE DRAWINGS TO REFLECT ACTUAL CONDITIONS CANNOT BE VERIFIED WHERE CONDITIONS ARE NOT FULLY EXPOSED.
B. EACH CONTRACTOR SHALL CHECK ALL DIMENSIONS AND VERIFY ALL CONDITIONS SHOWN ON THE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND CONFIRM ALL EXISTING CONDITIONS AFFECTING THEIR WORK AND TO NOTIFY OWNER AND ARCHITECT OF EXISTING CONDITIONS THAT ARE UNFOUNDED OR ARE DIFFERENT FROM CONDITIONS THAT ARE DEPICTED IN THE CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF WORK.
C. DIMENSIONS AND INFORMATION INDICATED ON DRAWINGS, SPECIFIED OR GIVEN ORALLY CONCERNING SIZES, ELEVATIONS, EXISTING OBSTRUCTIONS IN EXISTING CONSTRUCTION, AND SIZE, ELEVATIONS AND LOCATIONS OF UNDERGROUND SERVICES, HAS BEEN OBTAINED FROM SOURCES THE ARCHITECT BELIEVES TO BE RELIABLE. HOWEVER, THE ARCHITECT DOES NOT WARRANT THE ACCURACY OF SUCH INFORMATION. SUCH INFORMATION IS GIVEN SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR, AND THE USE OF SUCH INFORMATION BY THE CONTRACTOR IS MADE AT THE CONTRACTOR'S OWN RISK.
D. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL CONDITIONS AND COORDINATION OF WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL TRADES. DETERMINE AND COORDINATE REMOVAL OF ALL MECHANICAL AND ELECTRICAL CONSTRUCTION WITH THE NEW AND RENOVATION WORK AS INDICATED ON THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS ISSUED WITH THIS PACKAGE.
4. REFER TO THE CONTRACT DOCUMENTS (SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION INFORMATION.)
5. DASHED LINES GENERALLY DENOTE MATERIALS AND/OR ASSEMBLIES TO BE REMOVED. WHERE DEMOLITION IS INDICATED, COMPLETELY REMOVE ALL CONSTRUCTION TO PROVIDE CLEAN, UNIFORM SURFACES AS REQUIRED FOR NEW CONSTRUCTION. REMOVE ALL MISCELLANEOUS ACCESSORIES, FASTENERS, HANGERS AND SUPPORTS RELATED TO BUILDING MATERIALS / SYSTEMS REMOVAL.
6. COORDINATE DEMOLITION WORK WITH PROJECT SCHEDULE FOR NEW WORK TO MINIMIZE TEMPORARY SUPPORTS AND CLOSURES, AND TO MINIMIZE DISRUPTION OF OWNERS OPERATIONS.
7. CAREFULLY DISMANTLE, REMOVE, SALVAGE AND STORE ANY REMOVED ITEMS AS INDICATED AND AS DIRECTED BY CONTRACTOR AND/OR OWNER IN SUCH A WAY AS TO PREVENT DAMAGE. ALL SALVAGED ITEMS ARE TO BECOME THE PROPERTY OF THE OWNER UNLESS ARRANGED OTHERWISE WITH THE OWNER. STORE SALVAGED ITEMS WHERE DIRECTED BY OWNER.
8. TRAFFIC
A. CONDUCT DEMOLITION OPERATIONS AND SCHEDULE THE REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
B. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.
9. PROTECTIONS
A. PROVIDE AIR-TIGHT DUST BARRIERS, BARRICADES, TEMPORARY WALLS, AND OTHER PROTECTIONS AS REQUIRED BY LOCAL CONDITIONS TO CONTAIN DUST, DEBRIS, ETC. DUST BARRIERS, BARRICADES AND TEMPORARY WALLS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIALS AND CITY FIRE MARSHALS.
B. PROVIDE TEMPORARY WATERTIGHT AND THERMALLY ADEQUATE CLOSURES AT ALL EXTERIOR OPENINGS CREATED BY DEMOLITION ACTIVITIES TO PREVENT AND WATER INFILTRATION OF EXISTING SYSTEMS.
C. CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER CAUSES TO FACILITIES AND PERSONS. PROVIDE COVERED PASSAGEWAYS AS REQUIRED TO ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION.
D. PROTECT WALLS, FLOORS, CEILINGS, EQUIPMENT, FIXTURES AND OTHER EXISTING CONSTRUCTION THAT IS TO REMAIN AND IS EXPOSED DURING DEMOLITION OPERATIONS.
E. ERECT SIGNS, BARRICADES AND OTHER FORMS OF WARNING AS MAY BE REQUIRED TO PREVENT PERSONNEL FROM PUTTING THEMSELVES IN THE WAY OF INJURY.
10. REMOVED MATERIAL AND DEBRIS
A. ALL REMOVED MATERIAL, NOT OTHERWISE DESIGNATED, AND ALL DEBRIS BECOMES THE PROPERTY OF THE CONTRACTOR WHO SHALL REMOVE IT FROM THE SITE.
B. DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE.
C. LEAVE ALL SPACES BROOM CLEAN AND WITH ALL LEDGES AND CORNERS PROPERLY CLEAN AT THE END OF EACH SHIFT.
11. PROMPTLY REPAIR DAMAGE CAUSED TO ADJACENT CONSTRUCTION OR FACILITIES TO REMAIN DUE TO DEMOLITION OPERATIONS AS DIRECTED BY THE ARCHITECT/OWNER'S REPRESENTATIVE AND AT NO COST TO THE OWNER. MATCH EXISTING MATERIALS, INSTALLATION AND QUALITY TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE AND CONTRACTOR.
12. CONTRACTOR AND DEMOLITION SUBCONTRACTOR TO PROVIDE LIMITS OF WORK AND BARRICADES FOR OWNER AND AUTHORITIES HAVING JURISDICTION APPROVAL AS TO NOT DISRUPT ADJACENT PROPERTY OR CONSTRUCTION.
13. CONFER WITH THE OWNERS REPRESENTATIVE AS TO THE SEQUENCING AND PHASING OF THE PERFORMANCE OF VARIOUS PARTS OF THE WORK. COOPERATE FULLY TO THE END THAT CERTAIN FACILITIES AND SERVICES ARE MAINTAINED IN OPERATION UNTIL IMMEDIATELY BEFORE THE REMOVAL IS REQUIRED TO PERMIT INSTALLATION OF NEW WORK.
14. ALL STRUCTURAL COLUMNS, BEAMS, LINTELS, ETC. ARE TO REMAIN UNLESS SPECIFICALLY NOTED FOR REMOVAL. MAINTAIN STRUCTURAL SOUNDNESS OF REMAINING WALLS AND STRUCTURE. REFER TO STRUCTURAL DOCUMENTS. NOTIFY ARCHITECT AND OWNERS REPRESENTATIVE IMMEDIATELY IF STRUCTURAL INTEGRITY HAS BEEN FOUND TO BE COMPROMISED.
15. WHERE THE EXISTING CONSTRUCTION IS TO BE ALTERED, OR OTHERWISE DISTURBED, PROVIDE TEMPORARY BRACING AND SHORING AS MAY BE REQUIRED BEFORE AND DURING OPERATIONS AND UNTIL THE WORK IS SAFELY COMPLETED AND NO LONGER NEEDS SAME.
16. CARRY OUT ALL DEMOLITION WORK IN CLOSE COORDINATION AND COOPERATION WITH STRUCTURAL TRADES FOR PROPER SEQUENCING OF THE WORK TO ASSURE THE COMPLETE SAFETY AND STRUCTURAL INTEGRITY OF THE BUILDING AND ITS ELEMENTS AT ALL TIMES. PROVIDE TEMPORARY COLUMNS, JACKS, BEAMS, ETC. WHERE REQUIRED FOR SUPPORT OF EXISTING ELEMENTS OF CONSTRUCTION TO REMAIN IN SAFE, COMPETENT MANNER, IN CONFORMANCE WITH ALL LAWS, CODES ORDINANCES, RULES AND REGULATIONS BEARING ON THE WORK.
17. DEMOLITION OF ALL PORTIONS OF THE STRUCTURE TO BE REMOVED SHALL BE DONE WITH UTMOST CARE, USING TOOLS AND METHODS SUBJECT TO OWNER'S APPROVAL. ALL POSSIBLE CARE SHALL BE TAKEN TO AVOID DAMAGING, SHOCK OR VIBRATION TO PORTIONS OF EXISTING STRUCTURE TO REMAIN.
18. NEW OPENINGS SHALL BE MADE IN EXISTING WALLS, CEILINGS, FLOORS AND ROOF AS REQUIRED FOR THE INSTALLATION OF NEW WORK. OPENINGS SHALL BE CUT CLEAN AND ACCURATELY SO AS NOT TO DISTURB EXISTING WALLS, FLOOR, PARTITIONS, CEILINGS, ETC. WHICH ARE TO REMAIN.
19. PATCH AND REPAIR FIREPROOFING AS REQUIRED TO MAINTAIN ORIGINAL FIRE RATING. NEW PENETRATIONS AND OPENINGS IN FIRE RATED WALL ASSEMBLIES SHALL BE FIRE STOPPED TO MAINTAIN EXISTING FIRE RATING OF WALL.
20. WHERE CARPETING, RESILIENT FLOORING, CERAMIC TILE AND OTHER APPLIED FINISH FLOORING, AND WALL BASE MATERIALS ARE REMOVED, THOROUGHLY CLEAN ALL RESIDUAL MATERIAL FROM THE FLOOR SLAB AND WALLS TO PROVIDE A CLEAN UNIFORM SURFACE.
21. WHERE CEILINGS ARE REMOVED, REMOVE METAL SUSPENSION SYSTEM COMPLETE INCLUDING ALL SUSPENSION WIRES AND AUXILIARY FRAMING UNLESS IT WILL BE REUSED FOR NEW CEILING SYSTEM.
22. COMPLETELY REMOVE ALL EXISTING UNUSED ELECTRICAL AND LOW VOLTAGE ITEMS BACK TO CORRESPONDING PANELS. REFER TO ELECTRICAL AND TELECOM DOCUMENTS.
23. ALL EXISTING CONCRETE SLAB ON GRADE, CONCRETE TOPPING AND CONCRETE PLANK CONSTRUCTION TO REMAIN IS TO BE PATCHED, REPAIRED, AND / OR FILLED TO MATCH EXISTING, PREPARE TO RECEIVE NEW FINISH.
24. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES IN DEMOLITION AREAS BEFORE PROCEEDING WITH THE WORK. ALL DISCREPANCIES SHALL BE DOCUMENTED AND REPORTED TO THE ARCHITECT.
25. SAW CUT AND DEMO THE EXISTING SLAB ON GRADE AS REQUIRED FOR NEW UTILITY RUNS, SANITARY LINES, ELECTRICAL CONDUITS, ETC. COORDINATE WITH MECHANICAL, ELECTRICAL & PLUMBING DOCUMENTS. REPAIR ALL WORK AS REQUIRED (FLUSH WITH EXISTING). NOTE: DEPTH OF SLAB IS UNKNOWN.



2 ENLARGED TOILET ROOMS SCALE: 1/2" = 1'-0"

1 DEMOLITION PLAN SCALE: 1/8" = 1'-0"

DEMO FLOOR PLAN LEGEND
EXISTING CONSTRUCTION TO REMAIN (NIC) (WORK IN THESE AREAS MAY BE REQUIRED TO COMPLETE SCOPE OF WORK)
EXISTING WALL TO BE REMOVED COMPLETE - REMOVE ALL FASTENERS, ANCHORS AND CONNECTIONS TO EXISTING CONSTRUCTION
EXISTING LOAD BEARING WALL TO BE REMOVED COMPLETE. REMOVE ALL FASTENERS, ANCHORS AND CONNECTIONS TO EXISTING CONSTRUCTION. PROVIDE STRUCTURAL SHORING AND SUPPORT.
EXISTING WALL / CONSTRUCTION TO REMAIN
PROPERTY LINE
LINE OF CONSTRUCTION ABOVE
SFEFC FIRE EXTINGUISHER CABINET - SURFACE MOUNTED

DEMOLITION KEYNOTE LEGEND
1 EXISTING CONSTRUCTION TO REMAIN
2 REMOVE EXISTING INTERIOR STUD WALLS AND DEMOUNTABLE PARTITIONS COMPLETE. REMOVE ALL FASTENERS, ANCHORS AND CONNECTIONS TO EXISTING CONSTRUCTION.
3 REMOVE EXISTING MILLWORK COMPLETE, INCLUDING ANY EQUIPMENT AND ACCESSORIES.
4 REMOVE EXISTING INTERIOR WALL CONSTRUCTION AS REQUIRED TO INSTALL NEW OPENING INDICATED ON ARCHITECTURAL DRAWINGS.
5 REMOVE EXISTING LAY-IN CEILING SYSTEM COMPLETE, INCLUDING ALL ANCHORS AND HANGERS CONNECTED TO EXISTING CONSTRUCTION TO REMAIN.
6A SALVAGE EXISTING DOOR, FRAME AND HARDWARE COMPLETE AND TURN OVER TO OWNER. OWNER HAS FIRST RIGHT OF REFUSAL.
6B SALVAGE EXISTING DOOR, FRAME AND HARDWARE COMPLETE FOR REUSE. REFER TO DOOR SCHEDULE.
7 REMOVE EXISTING FLOOR FINISHES, INCLUDING SETTING SYSTEM COMPLETE THROUGHOUT UNLESS NOTED OTHERWISE. ACCESS FLOORING AND WOOD BASE TO REMAIN.
8 REMOVE EXISTING TOILETS, TOILET PARTITIONS, URINALS, MIRRORS, LAVATORY, COUNTER AND SUPPORTS COMPLETE. SALVAGE GRAB BARS AND COMBINATION PAPER TOWEL DISPENSER / WASTE RECEPTACLE UNIT. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL PLUMBING DEMOLITION REQUIREMENTS.
9 REMOVE EXISTING SHOWER, CURTAIN ROD, ACCESSORIES AND TILE COMPLETE. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL PLUMBING DEMOLITION REQUIREMENTS.
10 LOAD BEARING WALLS TO BE REMOVED. REFER TO STRUCTURAL FOR SHORING AND STRUCTURAL SUPPORT.
11 REMOVE EXISTING INTERIOR WALL AS REQUIRED TO INSTALL NEW METAL STUD SUPPORT POSTS - TYP. COORDINATE LOCATION WITH PROPOSED PLAN.
12 REMOVE EXISTING ACCESS FLOORING TO ACCOMMODATE NEW STEEL BASE PLATES - COORDINATE WITH STRUCTURAL - SALVAGE RAISED FLOOR AND SUPPORTS FOR MODIFICATIONS AND REINSTALLATION
13 EXISTING DUCTWORK TO BE REMOVED - REFER TO ENGINEERING DOCUMENTS FOR MORE INFORMATION
14 PATCH AND REPAIR EXISTING GYPSUM BOARD CEILINGS BELOW MEZZANINE AS REQUIRED AT ALL EXISTING WALLS TO BE REMOVED. EXISTING LIGHTING TO BE REMOVED, AND MECHANICAL EQUIPMENT TO BE REMOVED.
15 AREA OF EXISTING GYPSUM BOARDING CEILING BELOW MEZZANINE TO BE CUT TO ACCOMMODATE NEW MECHANICAL DIFFUSERS - REFER TO REFLECTED CEILING PLAN AND ENGINEERING DOCUMENTS

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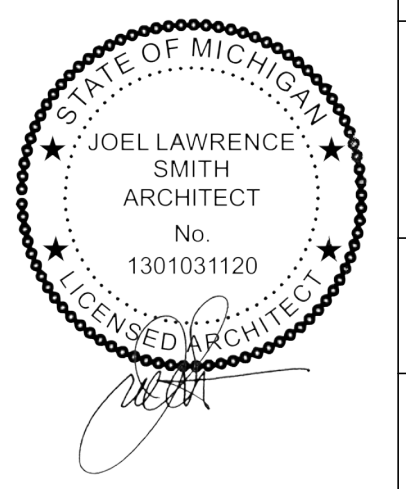
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ARCHITECTURAL DEMOLITION FLOOR PLAN
DRAWING SET INFO

Table with columns: NO., DATE, DESCRIPTION, REVIEW STATUS. Includes items like 100% SCHEMATIC DESIGN REVIEW, 50% DESIGN DEVELOPMENT REVIEW, etc.

ADDENDUM/BULLETIN REVISIONS table with columns: NO., DATE, DESCRIPTION.

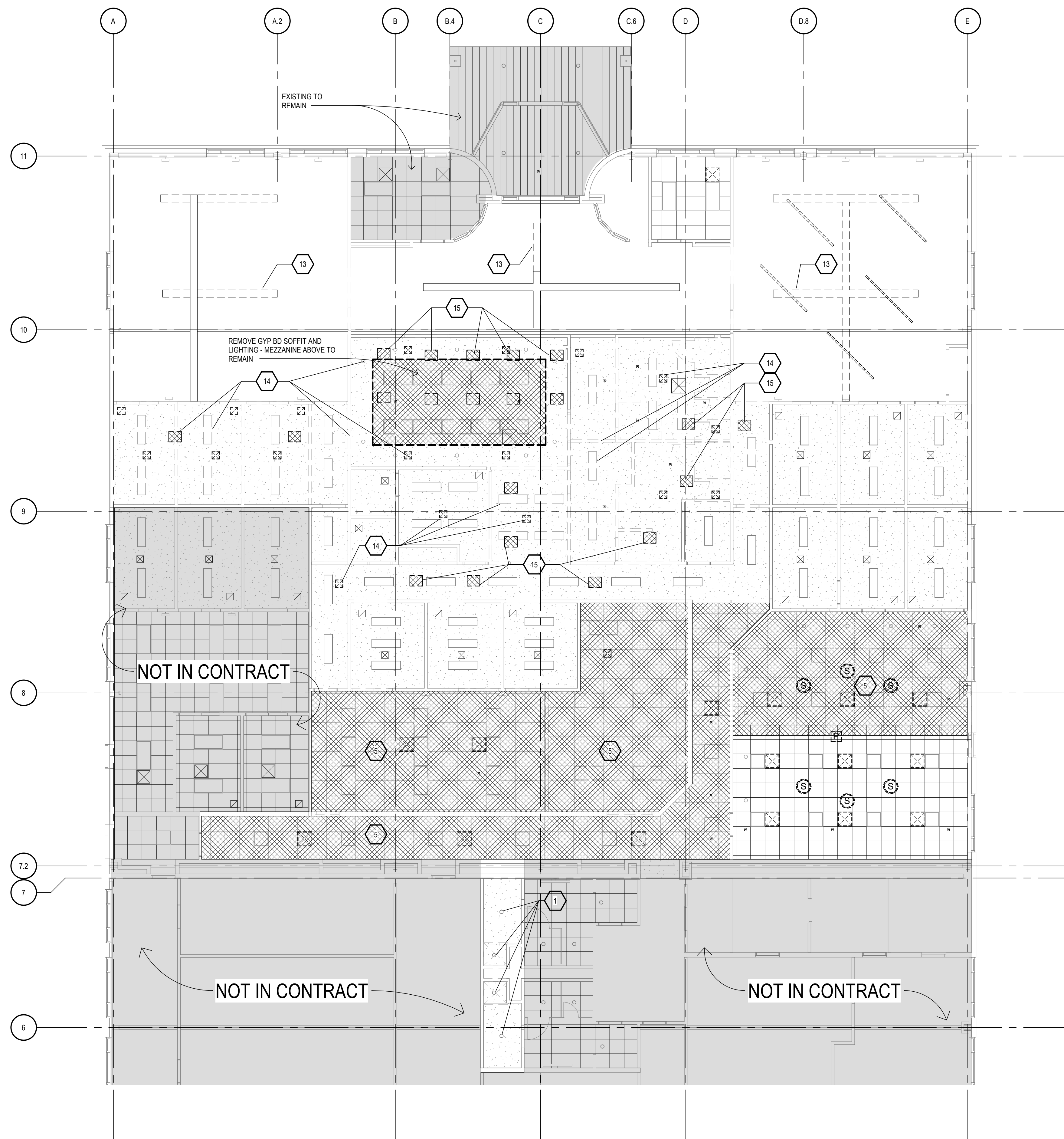
SCALE: 1/8" = 1'-0"
DRAWN BY: KT
CHECKED BY: PH
APPROVED BY: SC
SHEET NO. AD011
A/E PROJECT NO. 2022081
CMU PROJECT NO. 655113





## GENERAL DEMOLITION NOTES

1. DEMOLITION SUBCONTRACTOR MUST ARRANGE FOR A TOUR OF THE AREA OF WORK WITH THE CONTRACTOR BEFORE PREPARING AND SUBMITTING BIDS TO CLARIFY SPECIFIC DEMOLITION REQUIREMENTS THROUGHOUT THE ENTIRE AREA OF WORK AND TO VERIFY ALL DIMENSIONS, CONDITIONS AND QUANTITIES OF ITEMS BEING REMOVED.
2. THE SCOPE OF DEMOLITION WORK (ITEMIZED IN THESE ARCHITECTURAL DOCUMENTS (WITHIN THE BOUNDARY OF THE NEW WORK AREA) IS REPRESENTATIVE OF A "SNAP-SHOT IN TIME" AND MAY NOT SPECIFICALLY REPRESENT EXACT CONDITIONS AT THE TIME OF BIDDING. CONTRACTOR MUST DOCUMENT AND SUBMIT ANY CLARIFICATIONS/QUESTIONS FROM THE TOUR/WALK-THROUGH TO THE ARCHITECT AND OWNER.
3. VERIFICATION
  - A. ORIGINAL CONSTRUCTION DOCUMENTS OF THE EXISTING BUILDING ARE AVAILABLE UPON REQUEST FROM THE OWNER. ACCURACY OF THESE DRAWINGS TO REFLECT ACTUAL CONDITIONS CANNOT BE VERIFIED WHERE CONDITIONS ARE NOT FULLY EXPOSED.
  - B. EACH CONTRACTOR SHALL CHECK ALL DIMENSIONS AND VERIFY ALL CONDITIONS SHOWN ON THE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND CONFIRM ALL EXISTING CONDITIONS AFFECTING THEIR WORK AND TO NOTIFY OWNER AND ARCHITECT OF EXISTING CONDITIONS THAT ARE UNFORESEEN OR ARE DIFFERENT FROM CONDITIONS THAT ARE DEPICTED IN THE CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF WORK.
  - C. DIMENSIONS AND INFORMATION INDICATED ON DRAWINGS, SPECIFIED OR GIVEN ORALLY CONCERNING SIZES, ELEVATIONS, EXISTING OBSTRUCTIONS IN EXISTING CONSTRUCTION, AND SIZE, ELEVATIONS AND LOCATIONS OF UNDERGROUND SERVICES, HAS BEEN OBTAINED FROM SOURCES THE ARCHITECT BELIEVES TO BE RELIABLE. HOWEVER, THE ARCHITECT DOES NOT WARRANT THE ACCURACY OF SUCH INFORMATION. SUCH INFORMATION IS GIVEN SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR, AND THE USE OF SUCH INFORMATION BY THE CONTRACTOR IS MADE AT THE CONTRACTOR'S OWN RISK.
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6. COORDINATE DEMOLITION WORK WITH PROJECT SCHEDULE FOR NEW WORK TO MINIMIZE TEMPORARY SUPPORTS AND CLOSURES, AND TO MINIMIZE DISRUPTION OF OWNERS OPERATIONS.
7. CAREFULLY DISMANTLE, REMOVE, SALVAGE AND STORE ANY REMOVED ITEMS AS INDICATED AND AS DIRECTED BY CONTRACTOR AND/OR OWNER IN SUCH A WAY AS TO PREVENT DAMAGE. ALL SALVAGED ITEMS ARE TO BECOME THE PROPERTY OF THE OWNER UNLESS ARRANGED OTHERWISE WITH THE OWNER. STORE SALVAGED ITEMS WHERE DIRECTED BY OWNER.
8. TRAFFIC
  - A. CONDUCT DEMOLITION OPERATIONS AND SCHEDULE THE REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
  - B. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.
9. PROTECTIONS
  - A. PROVIDE AIR-TIGHT DUST BARRIERS, BARRICADES, TEMPORARY WALLS, AND OTHER PROTECTIONS AS REQUIRED BY LOCAL CONDITIONS TO CONTAIN DUST, DEBRIS, ETC. DUST BARRIERS, BARRICADES AND TEMPORARY WALLS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIALS AND CITY FIRE MARSHALS.
  - B. PROVIDE TEMPORARY WATERTIGHT AND THERMALLY ADEQUATE CLOSURES AT ALL EXTERIOR OPENINGS CREATED BY DEMOLITION ACTIVITIES TO PREVENT AND WATER INFILTRATION OF EXISTING SYSTEMS.
  - C. CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER CAUSES TO FACILITIES AND PERSONS. PROVIDE COVERED PASSAGEWAYS AS REQUIRED TO ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION.
  - D. PROTECT WALLS, FLOORS, CEILING, EQUIPMENT, FIXTURES AND OTHER EXISTING CONSTRUCTION THAT IS TO REMAIN AND IS EXPOSED DURING DEMOLITION OPERATIONS.
  - E. ERECT SIGNS, BARRICADES AND OTHER FORMS OF WARNINGS AS MAY BE REQUIRED TO PREVENT PERSONNEL FROM PUTTING THEMSELVES IN THE WAY OF INJURY.
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  - A. ALL REMOVED MATERIAL, NOT OTHERWISE DESIGNATED, AND ALL DEBRIS BECOMES THE PROPERTY OF THE CONTRACTOR WHO SHALL REMOVE IT FROM THE SITE.
  - B. DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE.
  - C. LEAVE ALL SPACES BROOM CLEAN AND WITH ALL LEDGES AND CORNERS PROPERLY CLEAN A THE END OF EACH SHIFT.
11. PROMPTLY REPAIR DAMAGE CAUSED TO ADJACENT CONSTRUCTION OR FACILITIES TO REMAIN DUE TO DEMOLITION OPERATIONS AS DIRECTED BY THE ARCHITECT/OWNERS REPRESENTATIVE AND AT NO COST TO THE OWNER. MATCH EXISTING MATERIALS, INSTALLATION AND QUALITY TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE AND CONTRACTOR.
12. CONTRACTOR AND DEMOLITION SUBCONTRACTOR TO PROVIDE LIMITS OF WORK AND BARRICADES FOR OWNER AND AUTHORITIES HAVING JURISDICTION APPROVAL AS TO NOT DISRUPT ADJACENT PROPERTY OR CONSTRUCTION.
13. CONFER WITH THE OWNERS REPRESENTATIVE AS TO THE SEQUENCING AND PHASING OF THE PERFORMANCE OF VARIOUS PARTS OF THE WORK. COOPERATE FULLY TO THE END THAT CERTAIN FACILITIES AND SERVICES ARE MAINTAINED IN OPERATION UNTIL IMMEDIATELY BEFORE THE REMOVAL IS REQUIRED TO PERMIT INSTALLATION OF NEW WORK.
14. ALL STRUCTURAL COLUMNS, BEAMS, LINTELS, ETC. ARE TO REMAIN UNLESS SPECIFICALLY NOTED FOR REMOVAL. MAINTAIN STRUCTURAL SOUNDNESS OF REMAINING WALLS AND STRUCTURE. REFER TO STRUCTURAL DOCUMENTS. NOTIFY ARCHITECT AND OWNERS REPRESENTATIVE IMMEDIATELY IF STRUCTURAL INTEGRITY HAS BEEN FOUND TO BE COMPROMISED.
15. WHERE THE EXISTING CONSTRUCTION IS TO BE ALTERED, OR OTHERWISE DISTURBED, PROVIDE TEMPORARY AND/OR PERMANENT BRACING AND SHORING AS MAY BE REQUIRED BEFORE AND DURING OPERATIONS AND UNTIL THE WORK IS SAFELY COMPLETED AND NO LONGER NEEDS SAME.
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17. DEMOLITION OF ALL PORTIONS OF THE STRUCTURE TO BE REMOVED SHALL BE DONE WITH UTMOST CARE. USING TOOLS AND METHODS SUBJECT TO OWNER'S APPROVAL. ALL POSSIBLE CARE SHALL BE TAKEN TO AVOID DAMAGING, SHOCK OR VIBRATION TO PORTIONS OF EXISTING STRUCTURE TO REMAIN.
18. NEW OPENINGS SHALL BE MADE IN EXISTING WALLS, CEILING, FLOORS AND ROOF AS REQUIRED FOR THE INSTALLATION OF NEW WORK. OPENINGS SHALL BE CUT CLEAN AND ACCURATELY SO AS NOT TO DISTURB EXISTING WALLS, FLOOR, PARTITIONS, CEILING, ETC. WHICH ARE TO REMAIN.
19. PATCH AND REPAIR FIREPROOFING AS REQUIRED TO MAINTAIN ORIGINAL FIRE RATING. NEW PENETRATIONS AND OPENINGS IN FIRE RATED WALL ASSEMBLIES SHALL BE FIRE STOPPED TO MAINTAIN EXISTING FIRE RATING OF WALL.
20. WHERE CARPETING, RESILIENT FLOORING, CERAMIC TILE AND OTHER APPLIED FINISH FLOORING, AND WALL BASE MATERIALS ARE REMOVED, THOROUGHLY CLEAN ALL RESIDUAL MATERIAL FROM THE FLOOR SLAB AND WALLS TO PROVIDE A CLEAN UNIFORM SURFACE.
21. WHERE CEILING ARE REMOVED, REMOVE METAL SUSPENSION SYSTEM COMPLETE INCLUDING ALL SUSPENSION WIRES AND AUXILIARY FRAMING UNLESS IT WILL BE REUSED FOR NEW CEILING SYSTEM.
22. COMPLETELY REMOVE ALL EXISTING UNUSED ELECTRICAL AND LOW VOLTAGE ITEMS BACK TO CORRESPONDING PANELS. REFER TO ELECTRICAL AND TELECOM DOCUMENTS.
23. ALL EXISTING CONCRETE SLAB ON GRADE, CONCRETE TOPPING AND CONCRETE PLANK CONSTRUCTION TO REMAIN IS TO BE PATCHED, REPAIRED, AND / OR FILLED TO MATCH EXISTING. PREPARE TO RECEIVE NEW FINISH.
24. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES IN DEMOLITION AREAS BEFORE PROCEEDING WITH THE WORK. ALL DISCREPANCIES SHALL BE DOCUMENTED AND REPORTED TO THE ARCHITECT.
25. SAW CUT AND DEMO THE EXISTING SLAB ON GRADE AS REQUIRED FOR NEW UTILITY RUNS, SANITARY LINES, ELECTRICAL CONDUITS, ETC. COORDINATE WITH MECHANICAL, ELECTRICAL & PLUMBING DOCUMENTS. REPAIR ALL WORK AS REQUIRED (FLUSH WITH EXISTING). NOTE: DEPTH OF SLAB IS UNKNOWN.



## DEMO REFLECTED CEILING PLAN LEGEND

- 1/4" GYP CEILING HEIGHT
- SHADED AREA INDICATES EXISTING CONSTRUCTION TO REMAIN (NIC)
- EXISTING CONSTRUCTION BE REMOVED COMPLETE
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXISTING SUPPLY DIFFUSER TO REMAIN
- EXISTING RETURN GRILLE TO REMAIN
- SUSPENDED STRIP FLUORESCENT FIXTURE - REFER TO ELECTRICAL DOCUMENTS
- CEILING MOUNTED PENDANT LIGHT FIXTURE - REFER TO ELECTRICAL DOCUMENTS
- RECESSED DOWNLIGHT - REFER TO ELECTRICAL DOCUMENTS
- WALL MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DOCUMENTS
- RECESSED LIGHT FIXTURE IN ACT CEILING SYSTEM - REFER TO ELECTRICAL DOCUMENTS
- EMERGENCY LIGHT DEVICE - REFER TO ELECTRICAL DOCUMENTS
- EXIT SIGN - REFER TO ELECTRICAL DOCUMENTS
- SPRINKLER HEAD - REFER TO FIRE PROTECTION DOCUMENTS
- SPEAKER - REFER TO ELECTRICAL DOCUMENTS
- J-BOX - REFER TO ELECTRICAL DOCUMENTS
- CEILING MOUNTED PROJECTOR

## DEMOLITION KEYNOTE LEGEND

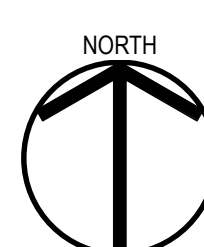
- 1 EXISTING CONSTRUCTION TO REMAIN
- 2 REMOVE EXISTING INTERIOR STUD WALLS AND DEMOUNTABLE PARTITIONS COMPLETE. REMOVE ALL FASTENERS, ANCHORS AND CONNECTIONS TO EXISTING CONSTRUCTION.
- 3 REMOVE EXISTING MILLWORK COMPLETE, INCLUDING ANY EQUIPMENT AND ACCESSORIES.
- 4 REMOVE EXISTING INTERIOR WALL CONSTRUCTION AS REQUIRED TO INSTALL NEW OPENING INDICATED ON ARCHITECTURAL DRAWINGS
- 5 REMOVE EXISTING LAY-IN CEILING SYSTEM COMPLETE, INCLUDING ALL ANCHORS AND HANGERS CONNECTED TO EXISTING CONSTRUCTION TO REMAIN.
- 6A SALVAGE EXISTING DOOR, FRAME AND HARDWARE COMPLETE AND TURN OVER TO OWNER. OWNER HAS FIRST RIGHT OF REFUSAL.
- 6B SALVAGE EXISTING DOOR, FRAME AND HARDWARE COMPLETE FOR REUSE. REFER TO DOOR SCHEDULE.
- 7 REMOVE EXISTING FLOOR FINISHES, INCLUDING SETTING SYSTEM COMPLETE THROUGHOUT UNLESS NOTED OTHERWISE. ACCESS FLOORING AND WOOD BASE TO REMAIN.
- 8 REMOVE EXISTING TOILETS, TOILET PARTITIONS, URINALS, MIRRORS, LAVATORY, COUNTER AND SUPPORTS COMPLETE. SALVAGE GRAB BARS AND COMBINATION PAPER TOWEL DISPENSER / WASTE RECEPTACLE UNIT. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL PLUMBING DEMOLITION REQUIREMENTS.
- 9 REMOVE EXISTING SHOWER, CURTAIN ROD, ACCESSORIES AND TILE COMPLETE. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL PLUMBING DEMOLITION REQUIREMENTS.
- 10 LOAD BEARING WALLS TO BE REMOVED. REFER TO STRUCTURAL FOR SHORING AND STRUCTURAL SUPPORT.
- 11 REMOVE EXISTING INTERIOR WALL AS REQUIRED TO INSTALL NEW METAL STUD SUPPORT POSTS - TYP. COORDINATE LOCATION WITH PROPOSED PLAN.
- 12 REMOVE EXISTING ACCESS FLOORING TO ACCOMMODATE NEW STEEL BASE PLATES - COORDINATE WITH STRUCTURAL - SALVAGE RAISED FLOOR AND SUPPORTS FOR MODIFICATIONS AND REINSTALLATION
- 13 EXISTING DUCTWORK TO BE REMOVED - REFER TO ENGINEERING DOCUMENTS FOR MORE INFORMATION
- 14 PATCH AND REPAIR EXISTING GYPSUM BOARD CEILING BELOW MEZZANINE AS REQUIRED AT ALL EXISTING WALLS TO BE REMOVED. EXISTING LIGHTING TO BE REMOVED, AND MECHANICAL EQUIPMENT TO BE REMOVED
- 15 AREA OF EXISTING GYPSUM BOARDING CEILING BELOW MEZZANINE TO BE CUT TO ACCOMMODATE NEW MECHANICAL DIFFUSERS - REFER TO REFLECTED CEILING PLAN AND ENGINEERING DOCUMENTS

### DRAWING SET INFO

100% SCHEMATIC DESIGN REVIEW	<input type="checkbox"/>
50% DEVELOPMENT REVIEW	<input type="checkbox"/>
50% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
90% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
50% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
90% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
BID AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
RECORD DRAWINGS - AS BUILT SET	<input type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

### ADDENDUM/BULLETIN REVISIONS

DATE	DESCRIPTION



1  
AD012

### DEMOLITION REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

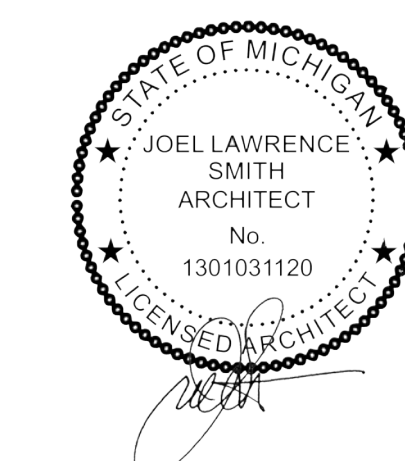
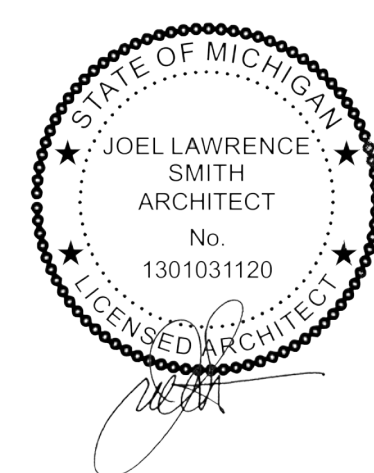




Table with 2 columns: Description, Status. Includes rows for 100% SCHEMATIC DESIGN REVIEW, 50% DESIGN DEVELOPMENT REVIEW, etc.

Table with 2 columns: DATE, DESCRIPTION. For recording revisions.



FINISH KEY

ACOUSTICAL BAFFLES

AB1 USE FELT ACOUSTICAL BAFFLES MANUFACTURER: TURF STYLE:NUMBER: DOPPELGANGER COLOR: 01 CREAM / 82 BARLEY

ACOUSTICAL CEILING PANELS

ACP1 USE FELT ACOUSTICAL PANELS MANUFACTURER: TURF STYLE:NUMBER: PORT COLOR: CHARCOAL
ACP2 USE ACOUSTIC CEILING TILES MANUFACTURER: ARMSTRONG STYLE:NUMBER: 1714 DUANE ANGLED TEGULAR SIZE: 24X24 GRID STYLE: 1516

CARPET / CARPET TILE

CPT1 MANUFACTURER: MILLIKEN COLLECTION: NATURALLY DRAWN STYLE:NUMBER: DRAWING IN INK SIZE: 50CM X 50CM COLOR: ANTIQUE SAND / VINTAGE TAUPE
CPT2 MANUFACTURER: MILLIKEN COLLECTION: NATURALLY DRAWN STYLE:NUMBER: WATERCOLOR LESSON SIZE: 50CM X 50CM COLOR: PEPPERCORN
CPT3 MANUFACTURER: MILLIKEN COLLECTION: HEAVY META STYLE:NUMBER: FUNDRY SIZE: 25CM X 1M COLOR: FOIL 152-220

NOTE: ALL SELECTED FINISHES ARE BASIS OF DESIGN. REFER TO SPECIFICATION FOR APPROVED ALTERNATE MANUFACTURES. ALTERNATE PRODUCT TO BE SUBMITTED AT TIME OF BIDDING.

RESILIENT FLOORING

LVT1 MANUFACTURER: MILLIKEN COLLECTION: FORTIFIED FOUNDATIONS STYLE:NUMBER: FARGESIA BAMBOO SIZE: 9' X 8'0" COLOR: CANE INSTALL: ASHLAR
LVT2 MANUFACTURER: MILLIKEN COLLECTION: FORTIFIED FOUNDATIONS STYLE:NUMBER: POLISHED CONCRETE SIZE: 36' X 36" COLOR: POLISH POL67 INSTALL: QUARTER TURN
LVT3 MANUFACTURER: MILLIKEN COLLECTION: RELIC STYLE:NUMBER: QUEST SIZE: 25CM X 1M INSTALL: ASHLAR

TILE

T1 USE FLOOR AND WALL TILE MANUFACTURER: VIRGINIA TILE COLLECTION: -ONE SIZE: 12 X 24 COLOR: COAL FINISH:SHIEN: MATTE BACKING: CEMENT BACKER BOARD CONTACT: ROBIN SPEER - SPEERR@VIRGINIATILE.COM
T2 USE BACKSPLASH - VIP SUITE MANUFACTURER: VITL STYLE:NUMBER: REMINGTON SIZE: 2X9 COLOR: SAPPHIRE FINISH:SHIEN: GLOSSY CONTACT: ROBIN SPEER ROBIN SPEER@VIRGINIATILE.COM
T3 USE EXISTING RESTROOM FLOOR TILE - TO MATCH EXISTING MANUFACTURER: CROSSVILLE STYLE:NUMBER: EMPIRE SERIES SIZE: 12X12 COLOR: GENERALS GREY VS85
T4 USE BACKSPLASH - WORK CAFE MANUFACTURER: VITL STYLE:NUMBER: REMINGTON SIZE: 2X9 COLOR: MOONSHINE FINISH:SHIEN: GLOSSY CONTACT: ROBIN SPEER ROBIN SPEER@VIRGINIATILE.COM

TILE BASE

TB1 MANUFACTURER: VIRGINIA TILE COLLECTION: -ONE EDGE/PROFILE: 6X12 COVE BASE COLOR: COAL FINISH:SHIEN: MATTE CONTACT: ROBIN SPEER - SPEERR@VIRGINIATILE.COM
TB2 MANUFACTURER: CROSSVILLE STYLE:NUMBER: EMPIRE SERIES EDGE/PROFILE: 6X12 COVE BASE COLOR: GENERALS GREY VS85

PAINT

P1 USE GENERAL WALL PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE:NUMBER: SW 7004 COLOR: SNOBBOUND CONTACT: DAWN CENOWA - DAWN.M.CENOWA@SHERWIN.COM
P2 USE ACCENT WALL PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE:NUMBER: SW 6037 COLOR: DOMINO CONTACT: DAWN CENOWA - DAWN.M.CENOWA@SHERWIN.COM
P3 USE ACCENT WALL PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE:NUMBER: SW 6237 COLOR: DARK NIGHT CONTACT: DAWN CENOWA - DAWN.M.CENOWA@SHERWIN.COM
P4 USE ACCENT WALL PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE:NUMBER: SW 7630 COLOR: RAISIN CONTACT: DAWN CENOWA - DAWN.M.CENOWA@SHERWIN.COM
P5 USE ACCENT WALL PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE:NUMBER: SW 6711 COLOR: PARAKEET CONTACT: DAWN CENOWA - DAWN.M.CENOWA@SHERWIN.COM
P6 USE ACCENT WALL PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE:NUMBER: SW 6048 COLOR: BUNGLEHOUSE BLUE CONTACT: DAWN CENOWA - DAWN.M.CENOWA@SHERWIN.COM

PLASTIC LAMINATE

PL1 MANUFACTURER: FORMICA COLOR: BLACK 96960 FINISH:SHIEN: GLOSS
PL2 MANUFACTURER: WILSONART STYLE:NUMBER: 8220 COLOR: FRENCH PEAR FINISH:SHIEN: FINE VELVET TEXTURE FINISH

SOLID SURFACING MATERIAL

SSM1 USE CIRCLE BAR MANUFACTURER: CORIAN THICKNESS/GAUGE: 1/2" COLOR: DEEP SABLE
SSM2 USE TOILET ROOMS MANUFACTURER: CORIAN THICKNESS/GAUGE: 1/2" COLOR: CONCRETE

MANUFACTURED STONE

MS1 USE CIRCLE BAR TOP MANUFACTURER: WILSONART COLOR: SANTIAGO
MS2 USE COUNTERTOPS THROUGHOUT MANUFACTURER: WILSONART COLOR: ENCHANTED ROCK

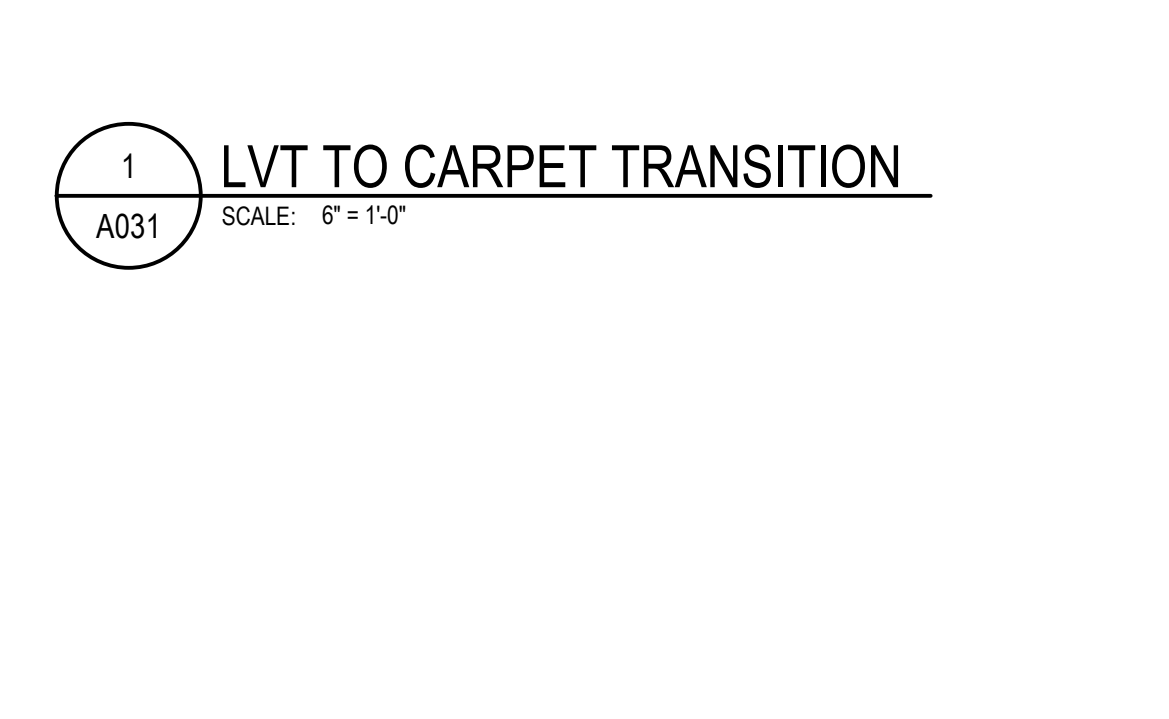
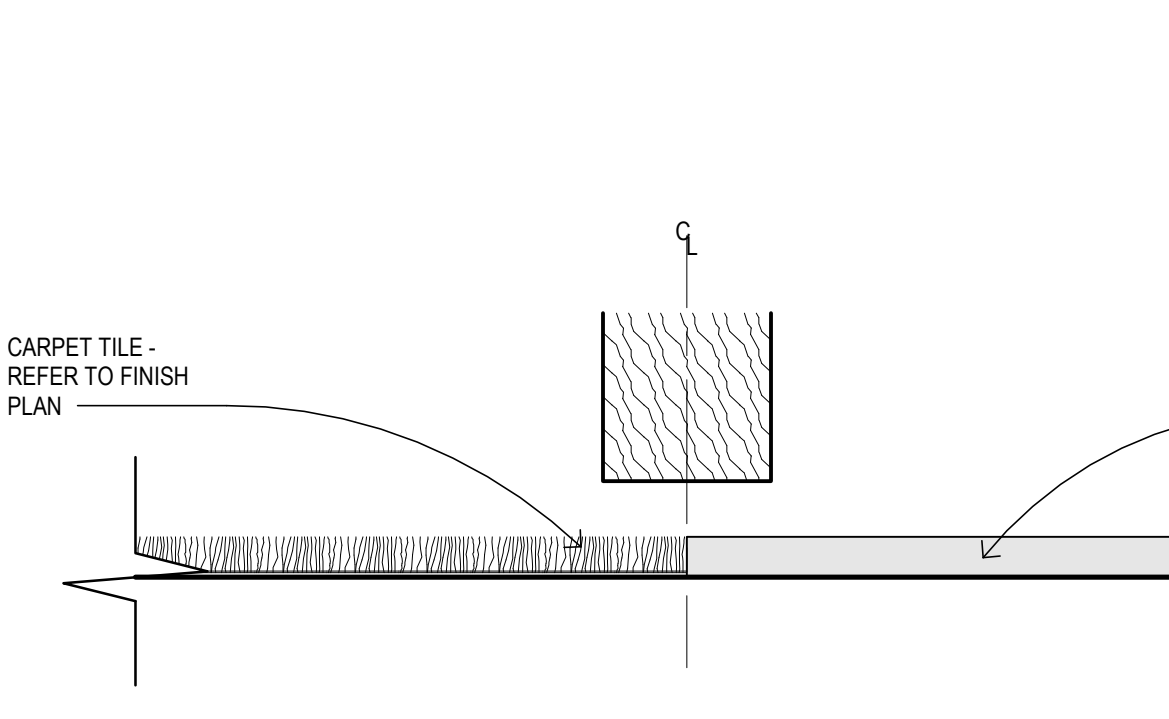
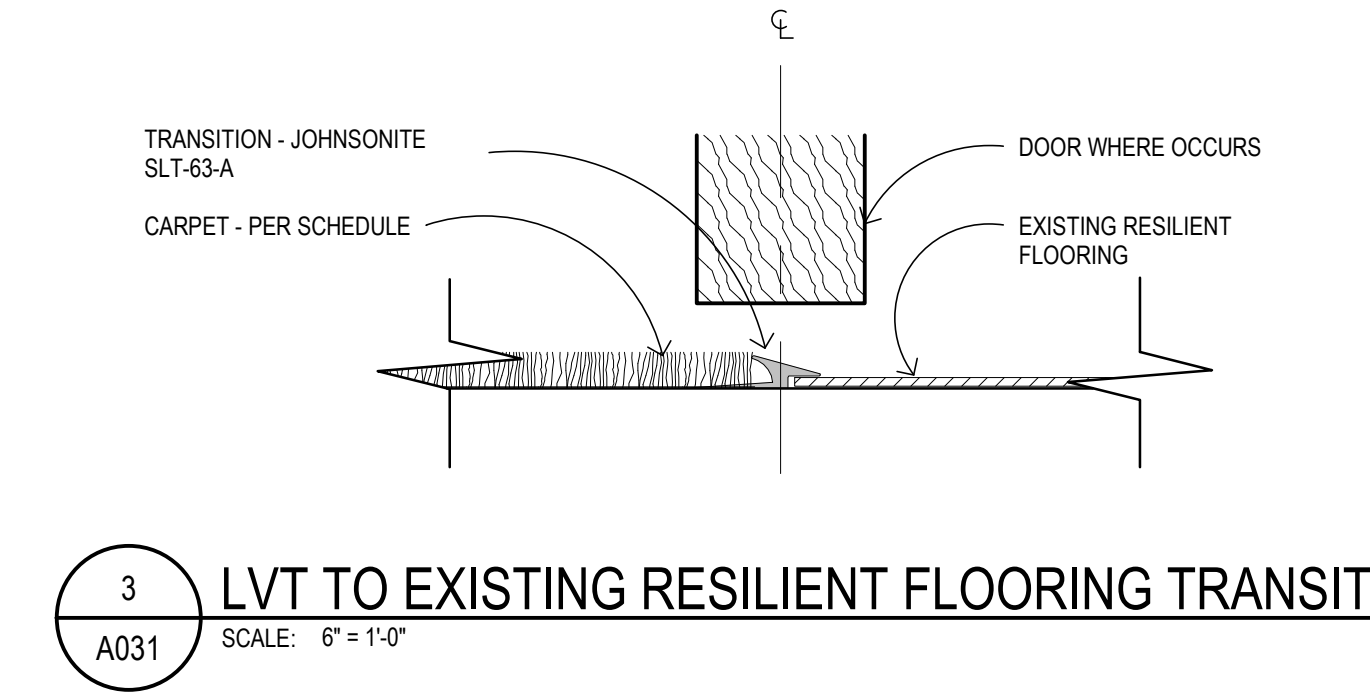
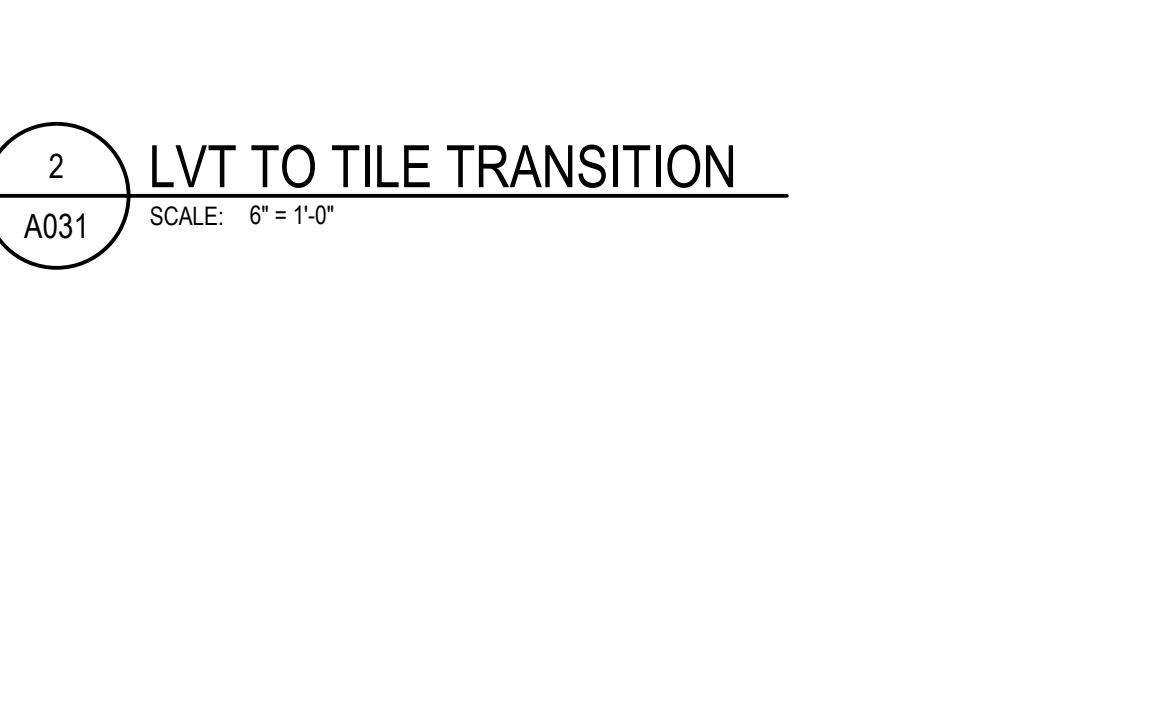
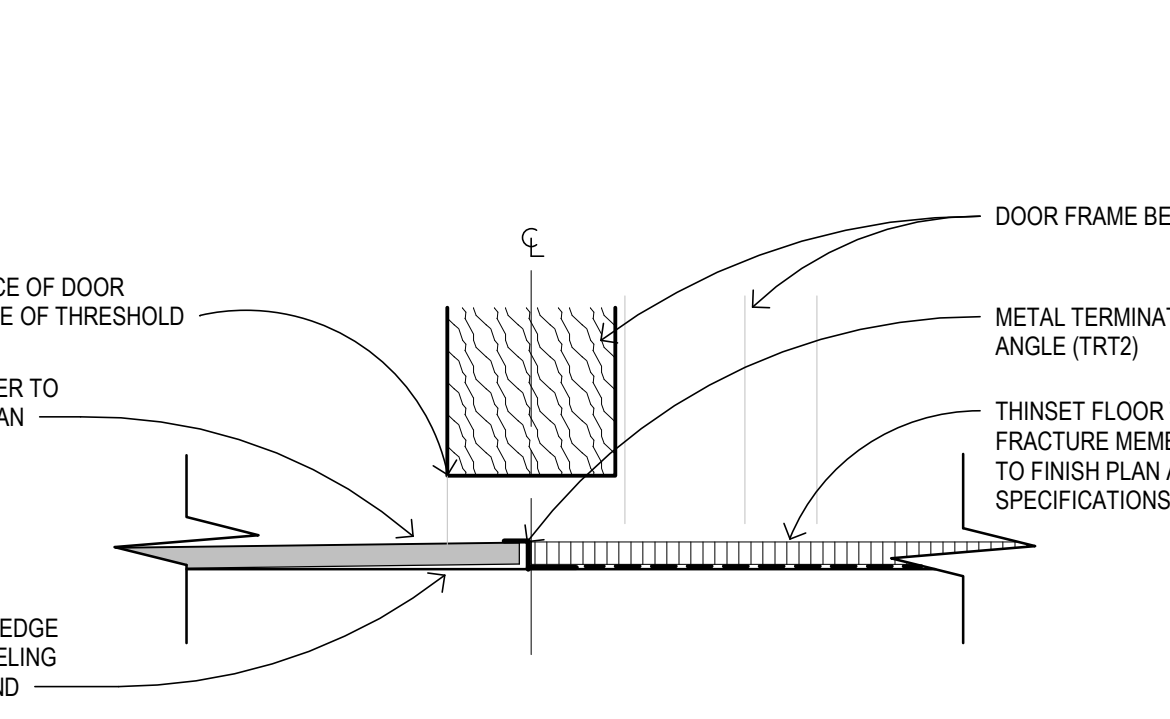
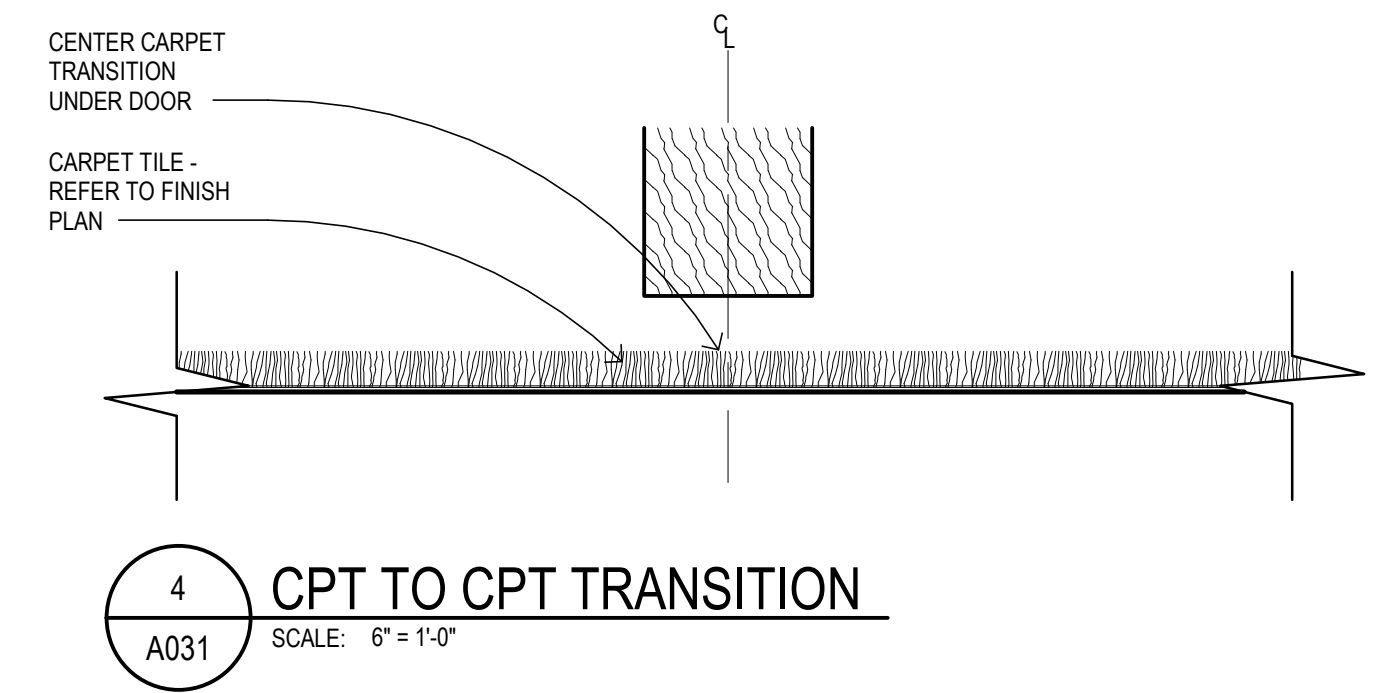
RESILIENT BASE

RB1 MANUFACTURER: ALLSTATE MP COLOR: A09 NOTE: ROLLED

TRANSITION TRIM

TRT1 USE WALL TILE TRIM MANUFACTURER: SCHLUTER STYLE:NUMBER: JULY (J) 80 AGSSJ COLOR: BLACK ANODIZED ALUMINUM
TRT2 USE FLOOR TILE TERMINATION MANUFACTURER: SCHLUTER STYLE:NUMBER: RENKO-TX SIZE: 1/2" COLOR: SATIN ANODIZED ALUMINUM

FINISH DESIGNATIONS table listing various materials and their abbreviations like AC, ACP, ALUM, etc.



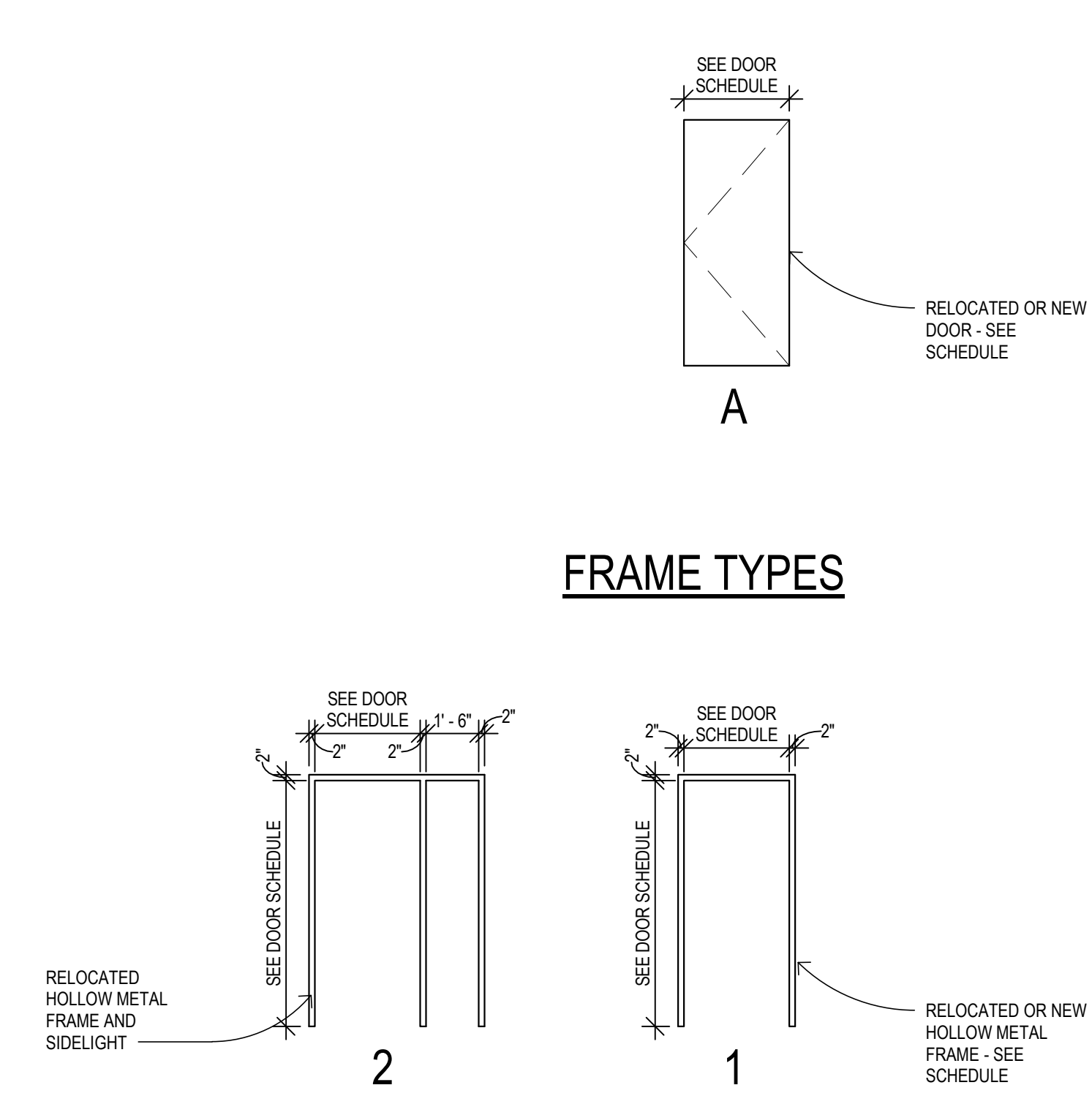
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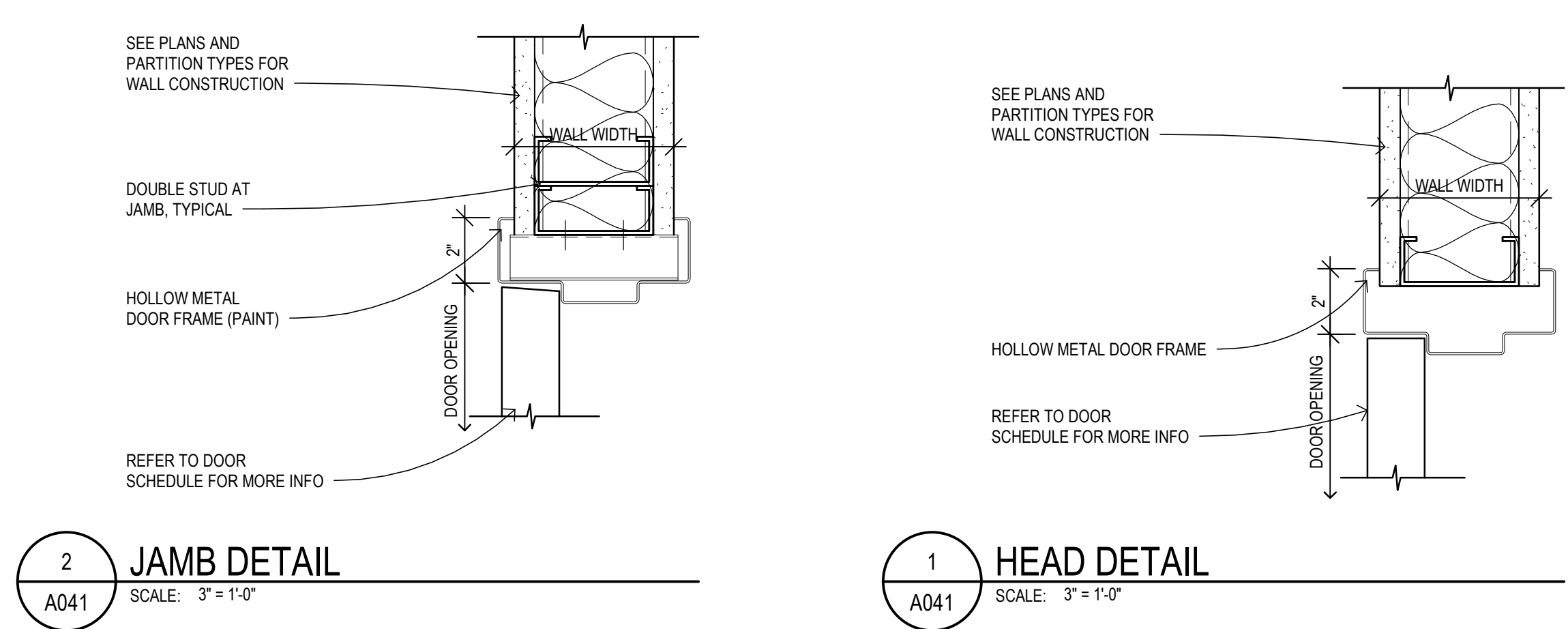


DOOR SCHEDULE												
DOOR #	DOOR SIZE	DOOR			FRAME			DETAILS			REMARKS	
		TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD		
1001	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1002	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1003	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1004	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1005	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1006	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1007	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1008	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1009	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1010	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1011	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1012	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1013	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1014	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1015	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1016	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1017	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1018	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1019	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1020	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1021	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1022	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1023	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1024	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1025	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1026	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1027	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
1028	2'-10" x 8'-0"		ALUM								3	DEMOUNTABLE WALL PARTITION
A												
1034	3'-0" x 7'-0"	A	WD (RELOCATED)	EX	2	HM (RELOCATED)	EX	1/A041	2/A041	4/A031	EX	SALVAGED CARD READER
1035	3'-0" x 7'-0"	A	WD (RELOCATED)	EX	2	HM (RELOCATED)	EX	1/A041	2/A041	4/A031	EX	SALVAGED CARD READER
1036	3'-0" x 7'-0"	A	WD (RELOCATED)	EX	2	HM (RELOCATED)	EX	1/A041	2/A041	4/A031	EX	SALVAGED CARD READER
1043	3'-0" x 7'-0"	A	WD (RELOCATED)	EX	2	HM (RELOCATED)	EX	1/A041	2/A041	4/A031	EX	SALVAGED CARD READER
1044	3'-0" x 7'-0"	A	WD (RELOCATED)	EX	2	HM (RELOCATED)	EX	1/A041	2/A041	4/A031	EX	SALVAGED CARD READER
1045	3'-0" x 7'-0"	A	WD (RELOCATED)	EX	2	HM (RELOCATED)	EX	1/A041	2/A041	4/A031	EX	SALVAGED CARD READER
1056	3'-0" x 7'-0"	A	WD (RELOCATED)	EX	1	HM (RELOCATED)	EX	1/A041	2/A041	2/A031	2	SALVAGED - FILL HOLES FROM ABANDONED HARDWARE AND PAINT TO MATCH EXISTING
1066A	1'-10" x 7'-0"	A	WD	P1	1	HM	P1	1/A041	2/A041	2/A031	5	SALVAGED - FILL HOLES FROM ABANDONED HARDWARE AND PAINT TO MATCH EXISTING
1067	3'-0" x 7'-0"	A	WD (RELOCATED)	EX	1	HM (RELOCATED)	EX	1/A041	2/A041	2/A031	4	TEMPORARY ONE-HOUR RATED DOOR
1084	3'-0" x 7'-0"	A	HM		1	HM					1HR	

DOOR TYPES



FRAME TYPES



2 JAMB DETAIL  
A041 SCALE: 3/4" = 1'-0"

1 HEAD DETAIL  
A041 SCALE: 3/4" = 1'-0"



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2526 DENISON DRIVE, MOUNT PLEASANT, MI 48856  
CMURC / RRP-IT RENOVATION  
ARCHITECTURAL  
DOOR SCHEDULE

DRAWING SET INFO

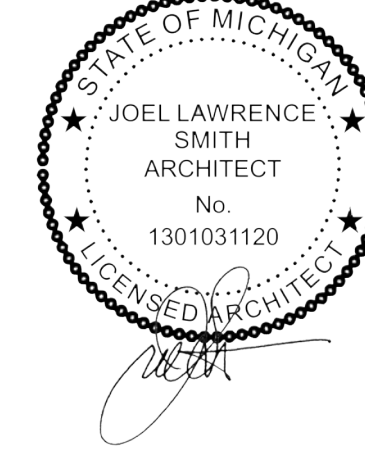
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- 30% DESIGN DEVELOPMENT REVIEW
- 50% DESIGN DEVELOPMENT REVIEW
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- 70% DESIGN DEVELOPMENT REVIEW
- 80% CONSTRUCTION DOC. REVIEW
- 85% CONSTRUCTION DOC. REVIEW
- 90% CONSTRUCTION SET
- 95% CONSTRUCTION SET
- 100% CONSTRUCTION SET
- RECORD DRAWINGS - AS BUILT SET
- FOR REFERENCE ONLY
- STATE PLAN REVIEW

ADDENDUM/BULLETIN REVISIONS

DATE	DESCRIPTION

SCALE  
DRAWN BY: Author  
CHECKED BY: Checker  
APPROVED BY: Approver

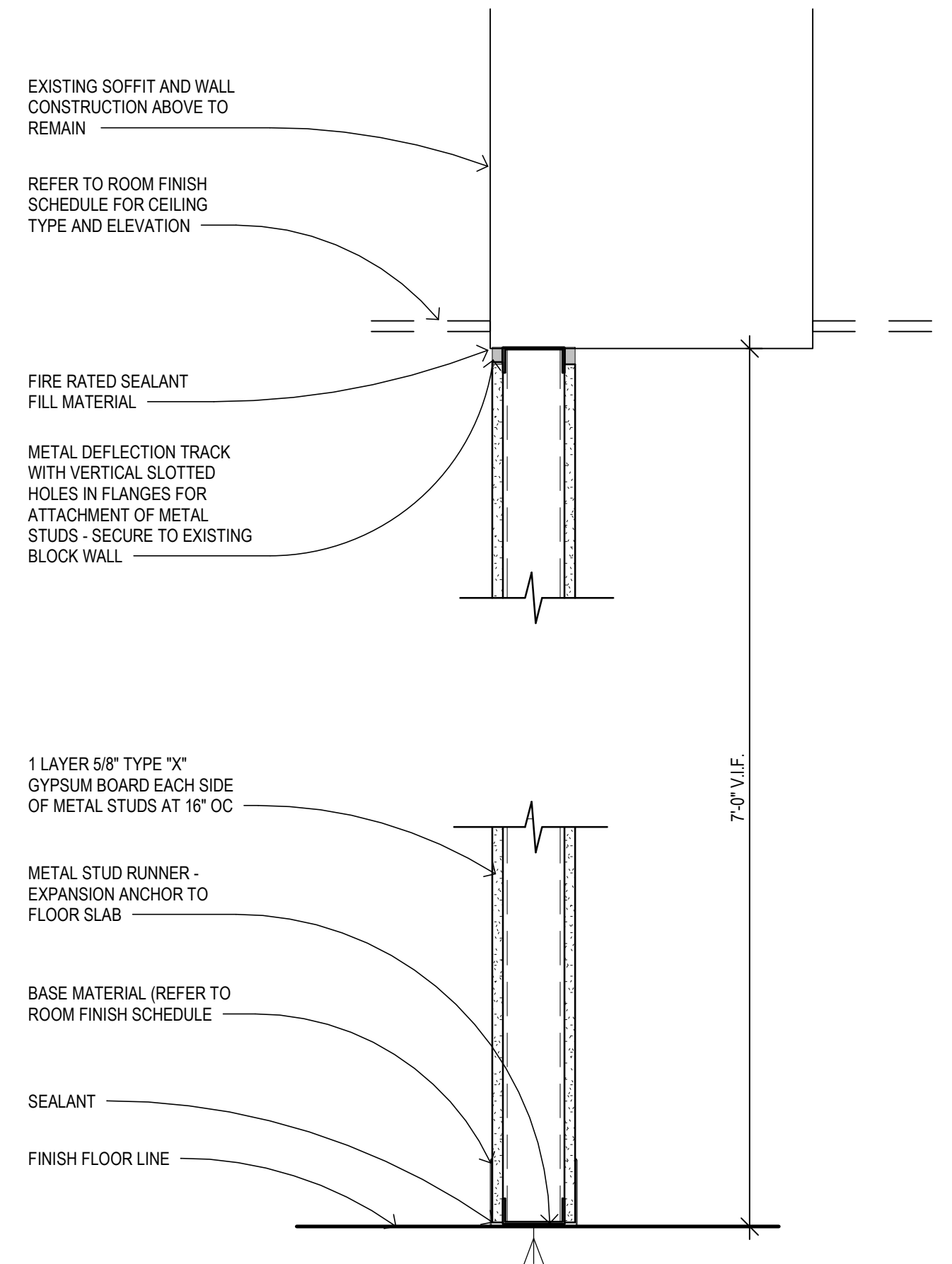
SHEET NO.  
A041  
A/E PROJECT NO.  
2022081  
CMU PROJECT NO.  
655113



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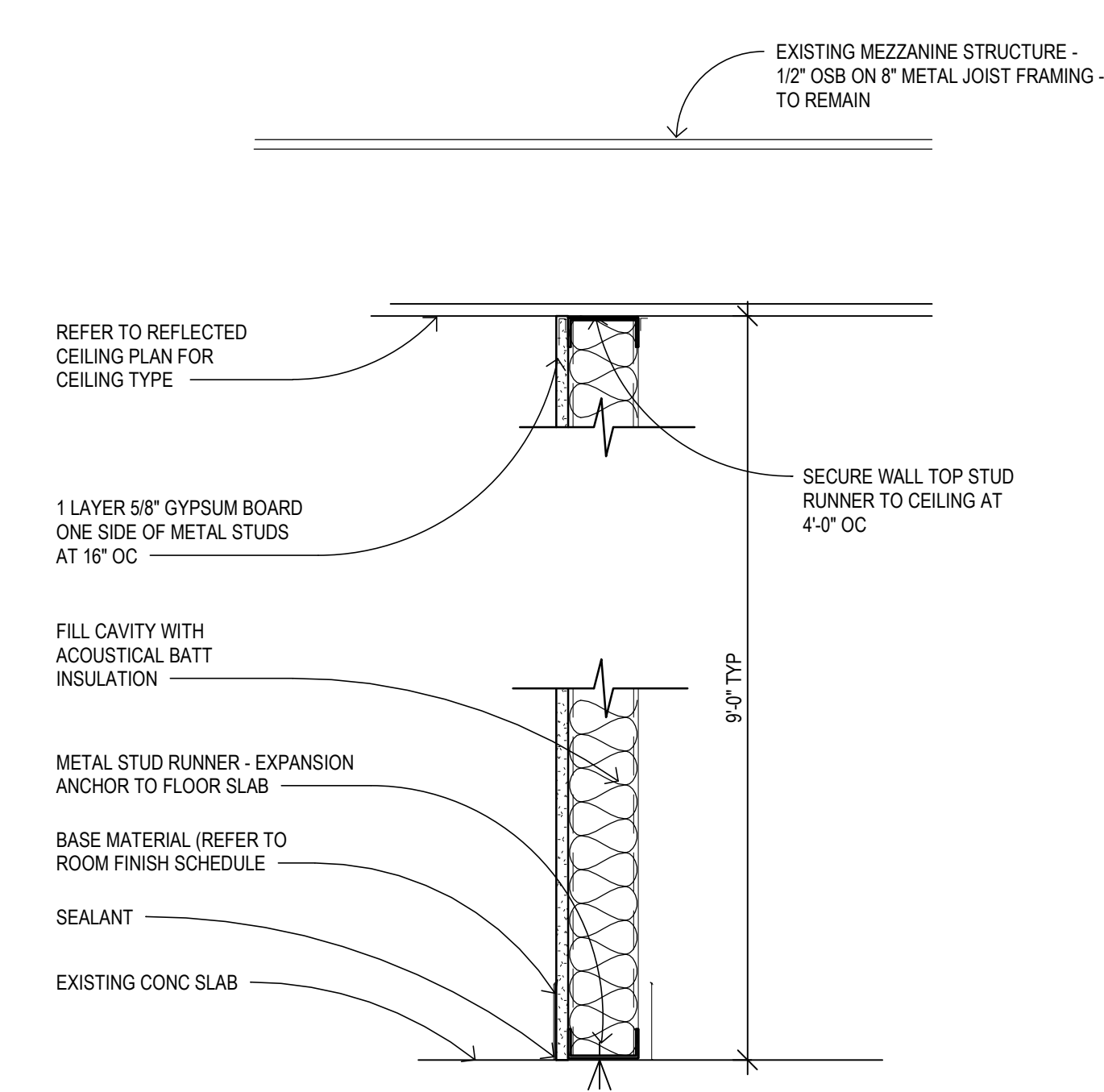
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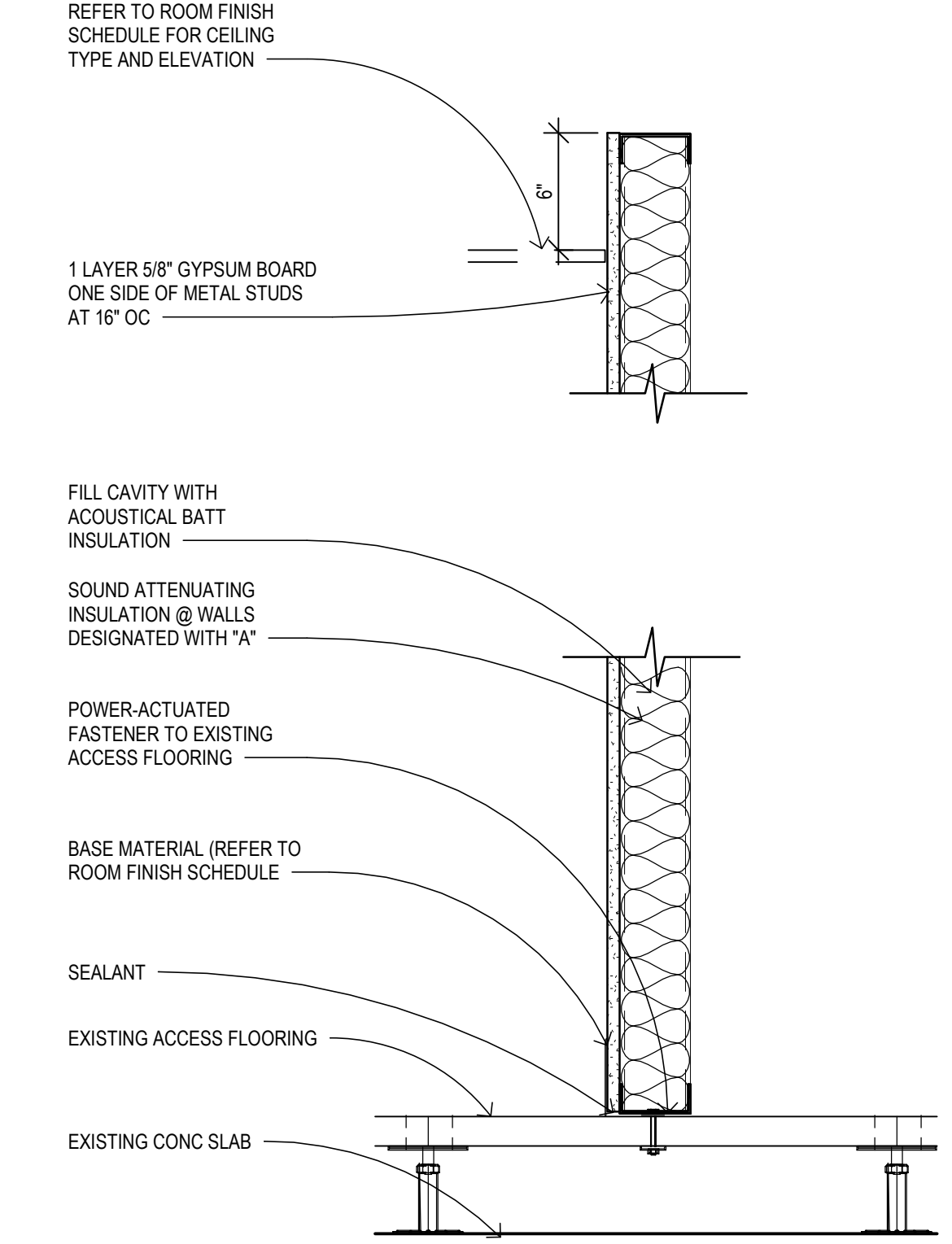
WALL TYPE P7 - TEMPORARY WALL - 1 HR FIRE RATED U.L. #U419

SCALE: 1 1/2" = 1'-0"  
P7.3 - 3 5/8" METAL STUDS



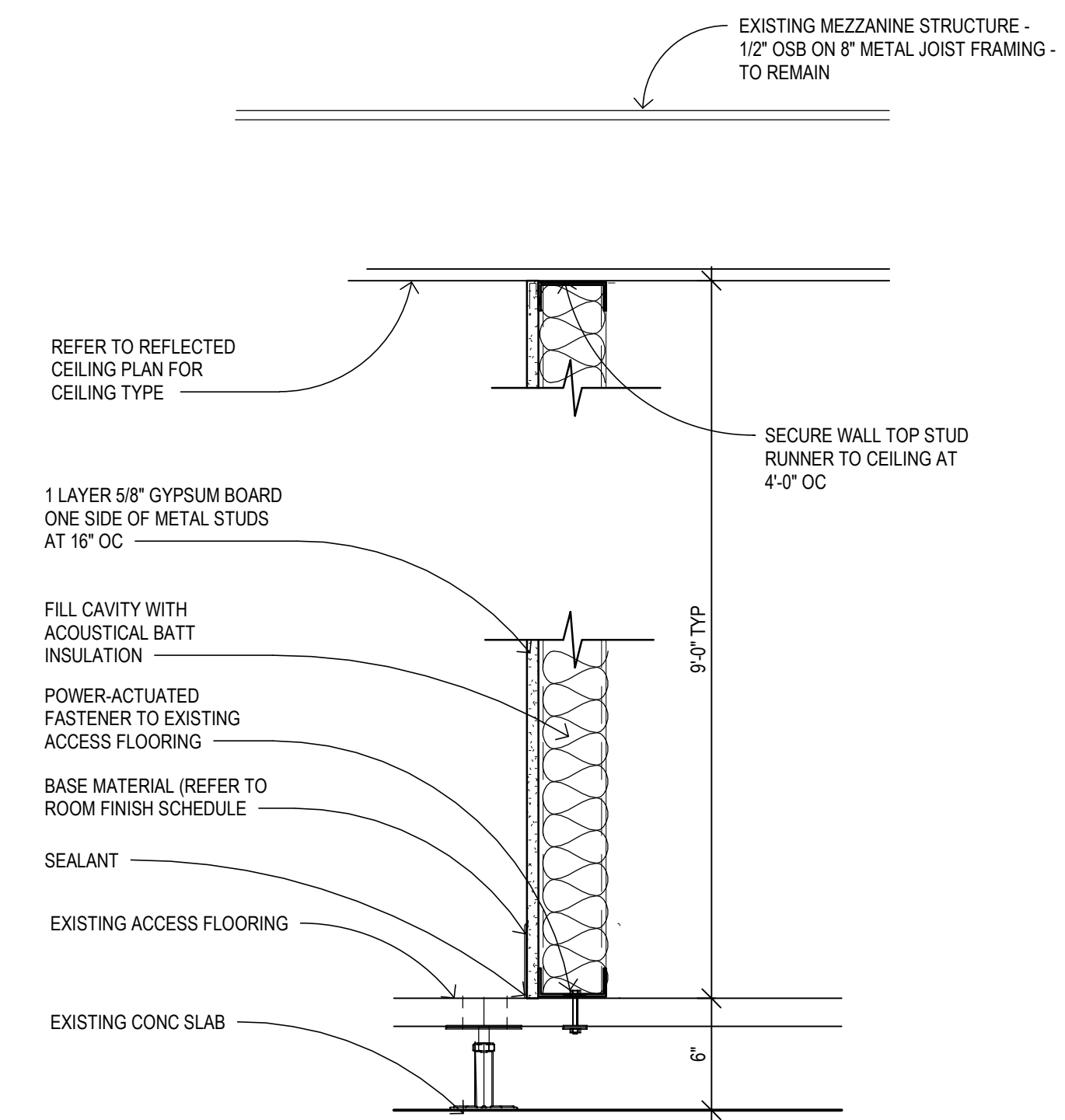
WALL TYPE P6

SCALE: 1 1/2" = 1'-0"  
P6.3 - 3 5/8" METAL STUDS



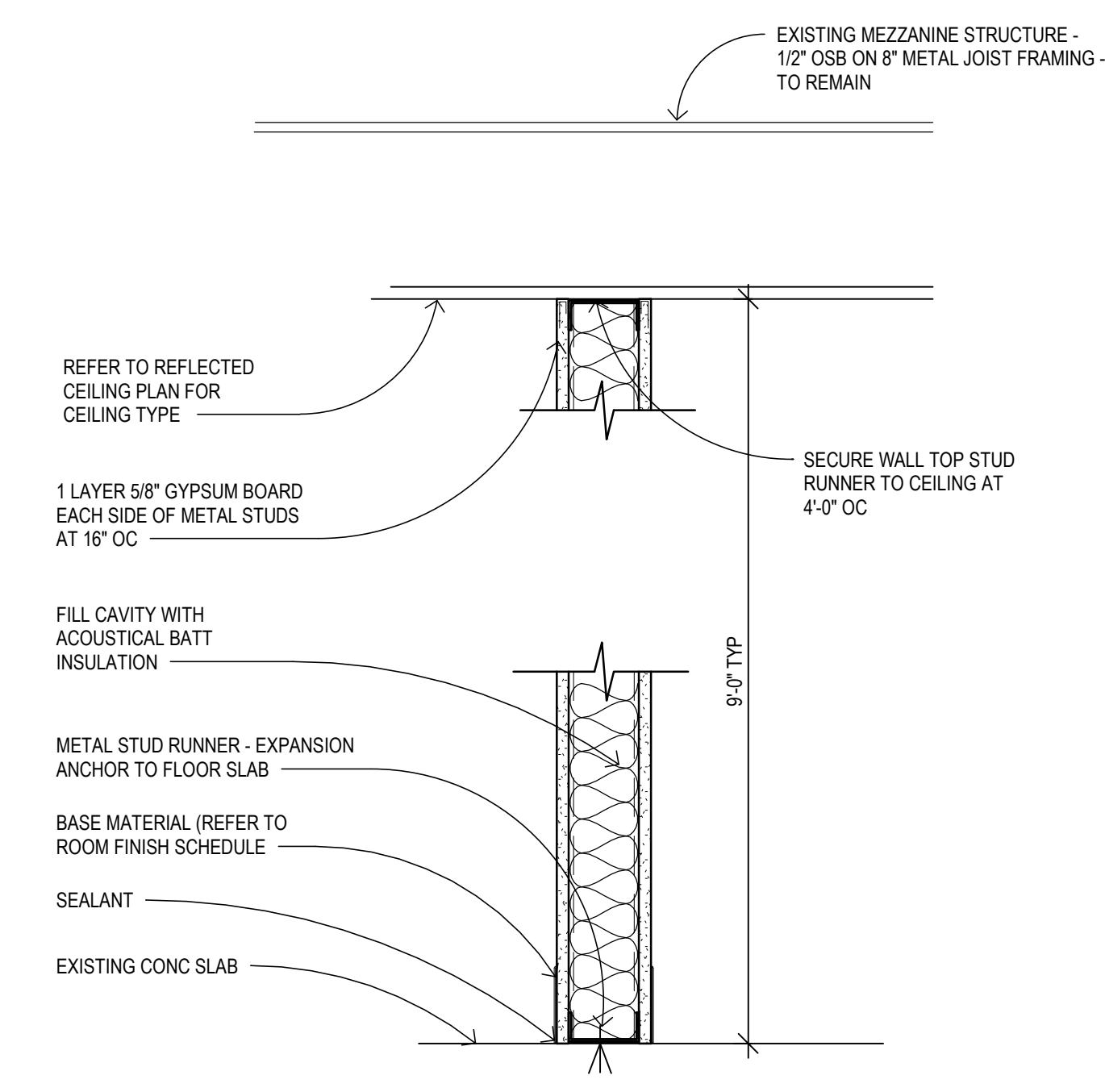
WALL TYPE P5

SCALE: 1 1/2" = 1'-0"  
P5.3 - 3 5/8" METAL STUDS  
NOTE: VERIFY EXISTING ACCESS FLOORING TILES ARE PROPERLY SECURED BEFORE FABRICATION OF WALL.



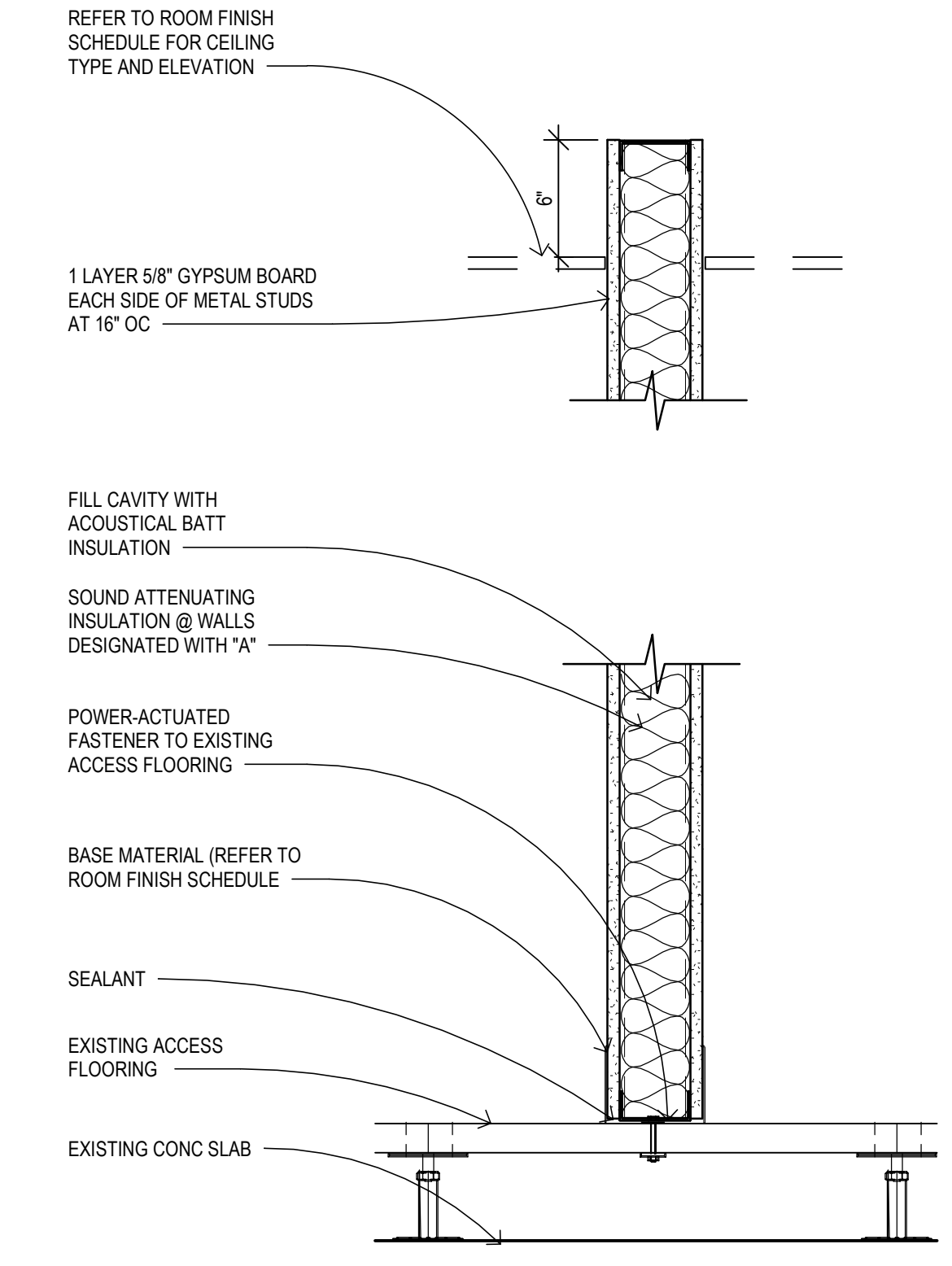
WALL TYPE P4

SCALE: 1 1/2" = 1'-0"  
P4.3 - 3 5/8" METAL STUDS  
NOTE: VERIFY EXISTING ACCESS FLOORING TILES ARE PROPERLY SECURED BEFORE FABRICATION OF WALL.



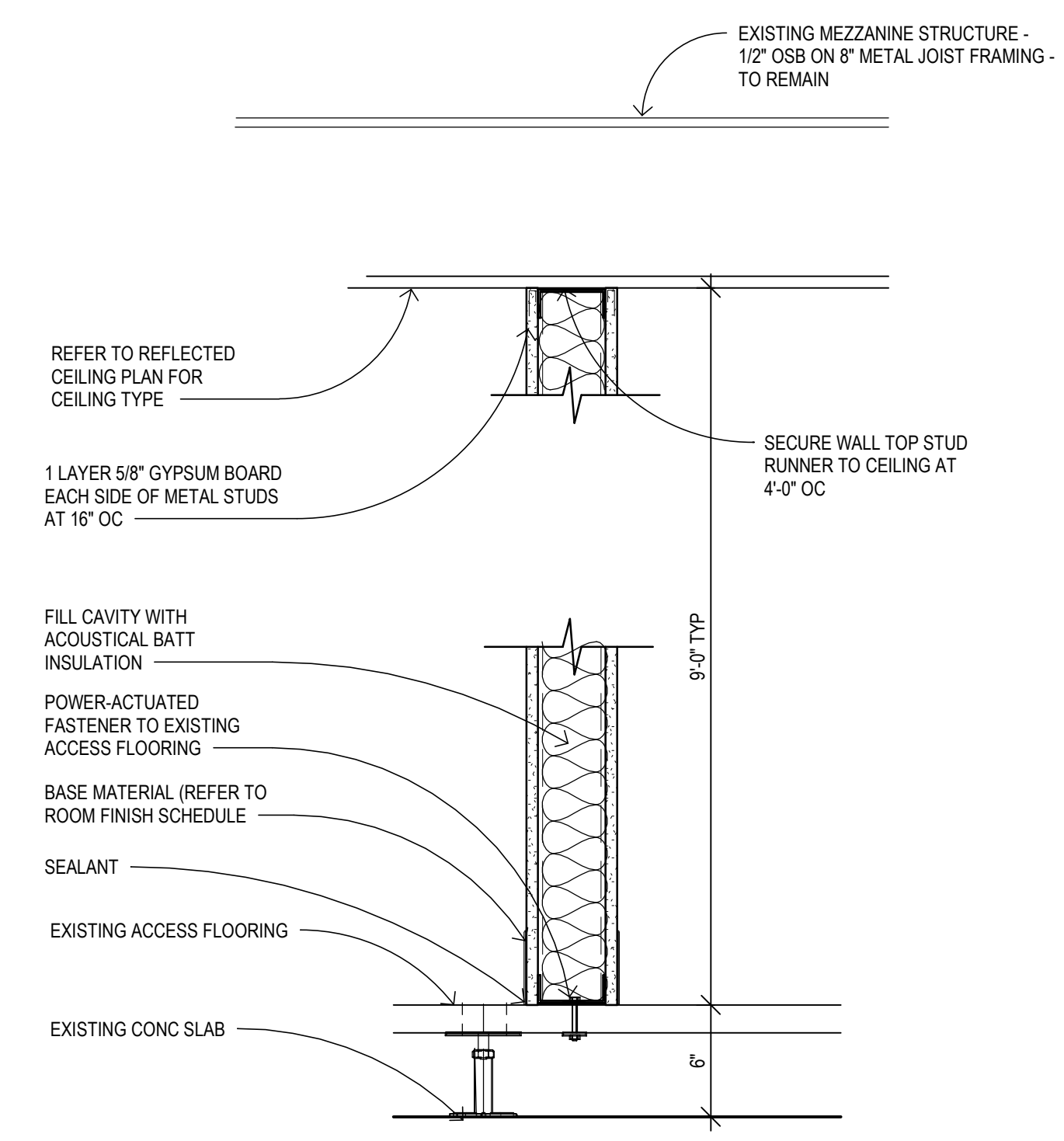
WALL TYPE P3

SCALE: 1 1/2" = 1'-0"  
P3.3 - 3 5/8" METAL STUDS  
P3.6 - 6" METAL STUDS



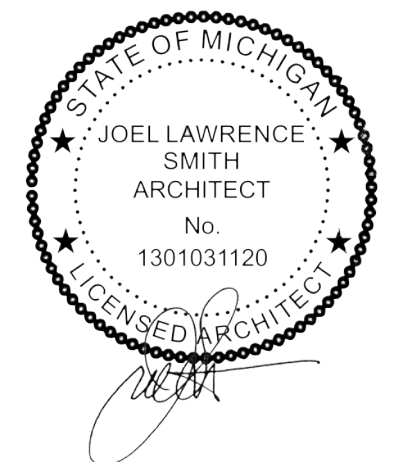
WALL TYPE P2

SCALE: 1 1/2" = 1'-0"  
P2.3 - 3 5/8" METAL STUDS  
P2.6 - 6" METAL STUDS  
NOTE: VERIFY EXISTING ACCESS FLOORING TILES ARE PROPERLY SECURED BEFORE FABRICATION OF WALL.



WALL TYPE P1

SCALE: 1 1/2" = 1'-0"  
P1.3 - 3 5/8" METAL STUDS  
NOTE: VERIFY EXISTING ACCESS FLOORING TILES ARE PROPERLY SECURED BEFORE FABRICATION OF WALL.



DRAWING SET INFO table with columns for issue number, date, and description, including rows for schematic design, design development, and construction documents.

ADDENDUM/BULLETIN REVISIONS table with columns for date and description.

SCALE, DRAWN BY, CHECKED BY, APPROVED BY information.

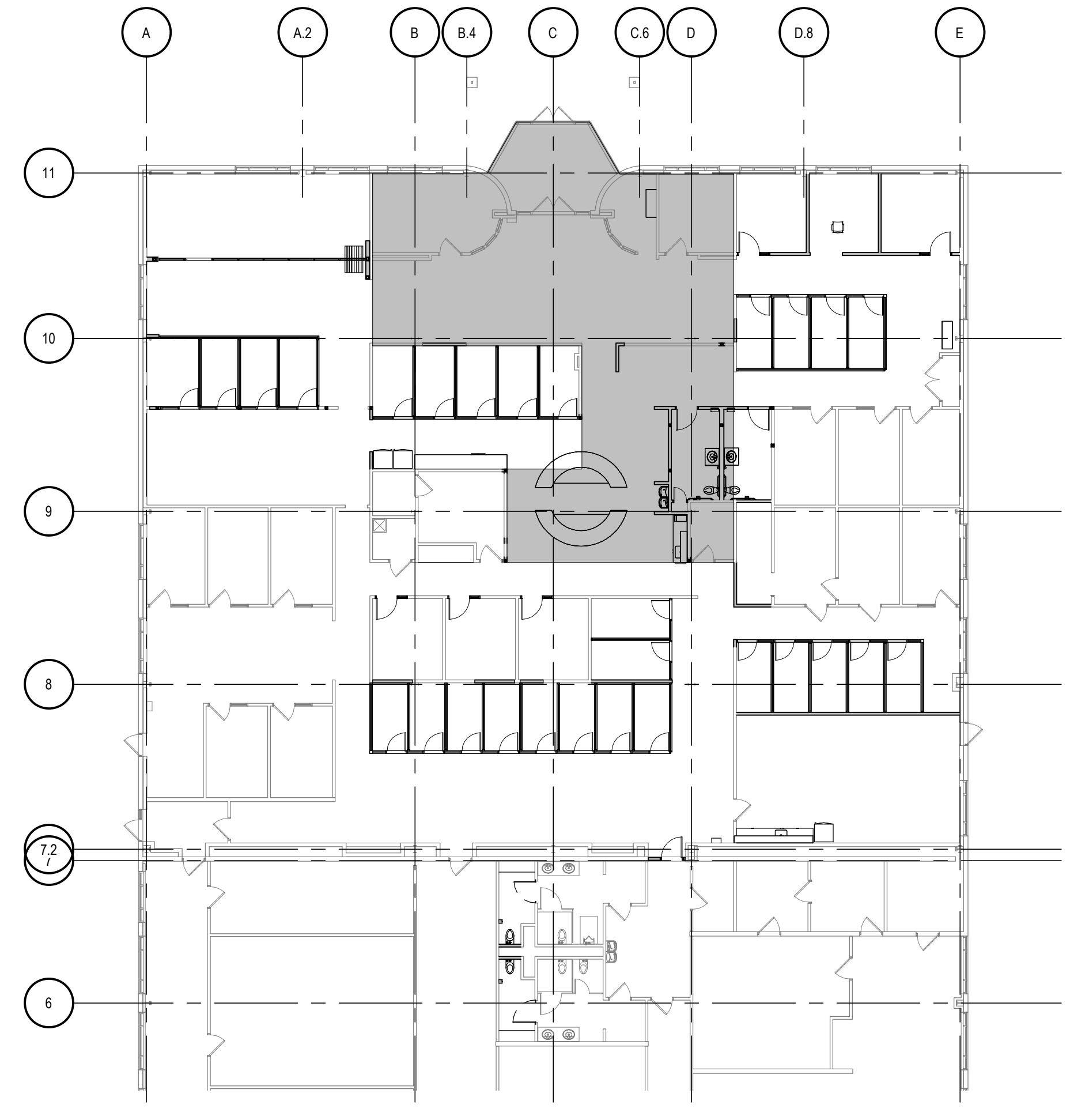
SHEET NO. A051, A/E PROJECT NO. 2022081, CMU PROJECT NO. 655113

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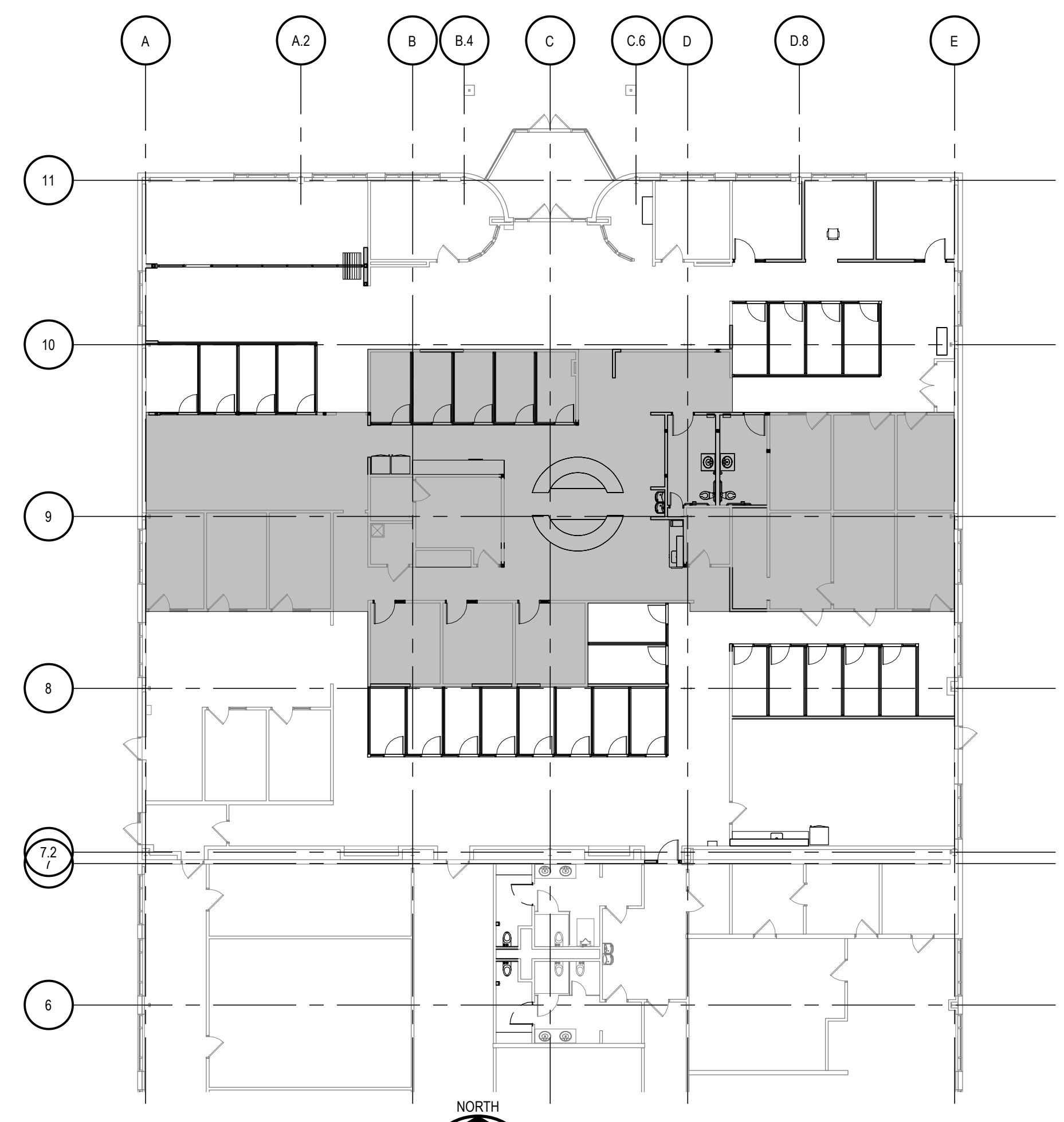


NOTE: SHADED AREA INDICATES THE APPROXIMATE LOCATION OF EXISTING CONCRETE SLAB ON GRADE. ALL OTHER FLOOR AREA IS A RAISED ACCESS FLOOR SYSTEM.

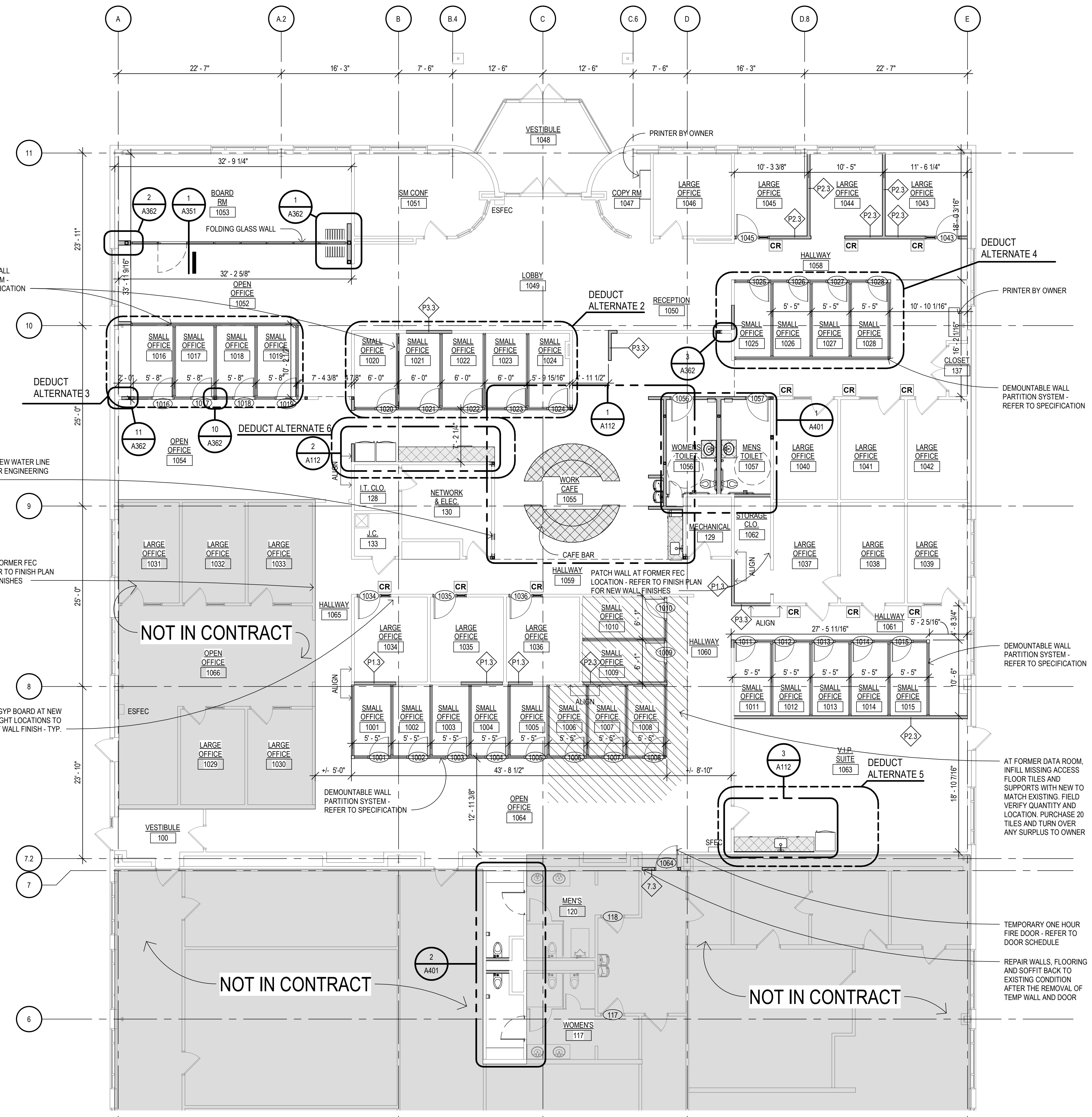


**3 SLAB ON GRADE KEY PLAN**  
A111 SCALE: 1/16" = 1'-0"

NOTE: SHADED AREA INDICATES THE APPROXIMATE LOCATION OF EXISTING MEZZANINE. ALL OTHER AREAS ARE HIGH BAY AREAS.



**2 MEZZANINE KEY PLAN**  
A111 SCALE: 1/16" = 1'-0"



**1 ENLARGED FLOOR PLAN**  
A111 SCALE: 1/8" = 1'-0"

**FLOOR PLAN LEGEND**

- SHADED AREA INDICATES EXISTING CONSTRUCTION TO REMAIN (NIC)
- EXISTING GYPSUM BOARD WALL WITH METAL STUDS (UNO)
- NEW WALL CONSTRUCTION - SEE WALL TYPES
- LINE OF CONSTRUCTION ABOVE
- PARTITION TYPE - REFER TO A051
- MILLWORK
- SFEC FIRE EXTINGUISHER CABINET - SURFACE MOUNTED
- ESFEC FIRE EXTINGUISHER CABINET - SURFACE MOUNTED - EXISTING
- CR CARD READER
- DO BARRIER FREE DOOR OPERATOR
- IC INTERCOM
- CUH CABINET UNIT HEATER - WALL MOUNTED
- RCUH CABINET UNIT HEATER - RECESSED MOUNTED
- CJ CONTROL JOINT

**GENERAL FLOOR PLAN NOTES**

1. ALL DIMENSIONS ARE TO THE FACE OF MASONRY / CONCRETE / GYPSUM BOARD AND CENTERLINE OF OPENINGS FOR DOORS AND WINDOWS (FACE OF OPENINGS WHEN LOCATED IN MASONRY / CONCRETE), UNLESS NOTED OTHERWISE.
2. ALL DOORS TO BE SET OFF ADJACENT WALLS 4" UNLESS NOTED OTHERWISE.
3. PROVIDE AND INSTALL SEALANT AT INTERSECTION OF ALL GYPSUM BOARD PARTITIONS AND MASONRY/CONCRETE WALLS, (BOTH SIDES OF PARTITIONS).
4. PATCH ALL EXISTING TO REMAIN GYPSUM BOARD WALLS AS REQUIRED WHERE EXISTING WALL, EXISTING MILLWORK, OR EXISTING UTILITIES WERE REMOVED FROM THE WALL. ALSO PATCH WALL SURFACE WHERE GYPSUM BOARD WAS REMOVED TO ACCOMMODATE NEW WORK. PROVIDE LEVEL OF FINISH AS SPECIFIED.
5. PLANS INDICATE MINIMUM REQUIREMENTS FOR FIRE EXTINGUISHERS, PROVIDE ADDITIONAL EXTINGUISHERS IF REQUIRED BY AUTHORITY HAVING JURISDICTION. FIRE EXTINGUISHERS TO COMPLY WITH NFPA 10.
6. VERIFY SIZE AND LOCATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, PADS, PENETRATIONS AND SUPPORTS WITH MECHANICAL AND ELECTRICAL DOCUMENTS.
7. TO THE MAXIMUM EXTENT POSSIBLE, FLOOR CLEAN-OUTS ARE TO BE LOCATED IN INCONSPICUOUS LOCATIONS. ALL FLOOR CLEAN-OUTS LOCATED IN AREAS WITH FINISH FLOORING ARE TO BE FITTED WITH FINISH FLOORING INSERTS. ALL CLEAN-OUTS ARE TO BE FLUSH WITH FLOOR/SWALLS.
8. REFER TO SHEET A011 FOR STANDARD AND BARRIER FREE MOUNTING HEIGHTS.
9. REFER TO SPECIFICATIONS MANUAL FOR ADDITIONAL INFORMATION.

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206 COMBINED SERVICES BUILDING  
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OFFICE: (989)774-6559  
FAX: (989)774-6187

**NEUMANN SMITH** architecture  
SOUTHFIELD • DETROIT  
400 Galleria Officentre  
Suite 555  
Southfield, Michigan 48034  
phone 248.352.8310 fax 248.352.1821  
www.neumannsmith.com

**CENTRAL MICHIGAN UNIVERSITY**  
2526 DENISON DRIVE, MOUNT PLEASANT, MI 48858  
CMURC / RRP-IT RENOVATION  
**ARCHITECTURAL**  
FIRST FLOOR PLAN

**DRAWING SET INFO**

100% SCHEMATIC DESIGN REVIEW	<input type="checkbox"/>
100% DATE: 2023.03.17	
50% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
50% DATE: 2023.03.24	
50% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
50% DATE: 2023.04.24	
BID AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
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STATE PLAN REVIEW	<input type="checkbox"/>
100% DATE:	

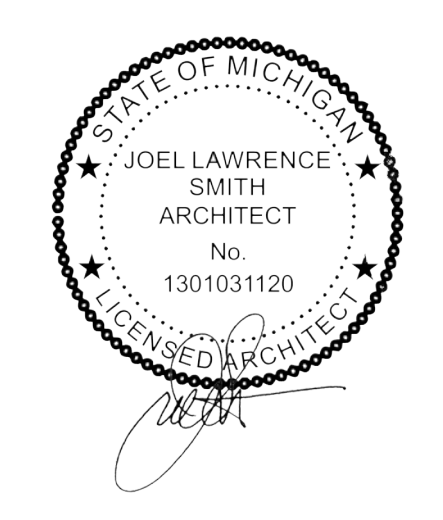
**ADDENDUM/BULLETIN REVISIONS**

DATE	DESCRIPTION

SCALE: 1/8" = 1'-0"

DRAWN BY: KT  
CHECKED BY: PH  
APPROVED BY: SC

SHEET NO. **A111**  
A/E PROJECT NO. **2022081**  
CMU PROJECT NO. **655113**





**CMU**  
CENTRAL MICHIGAN UNIVERSITY  
UNIVERSITY ENGINEERING & PLANNING OFFICE  
FACILITIES MANAGEMENT  
206 COMBINED SERVICES BUILDING  
MOUNT PLEASANT, MI 48859  
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CENTRAL MICHIGAN UNIVERSITY  
2526 DENISON DRIVE, MOUNT PLEASANT, MI 48858  
CMURC / RRIP-IT RENOVATION  
ARCHITECTURAL  
FIRST FLOOR ENLARGED PLANS

**FLOOR PLAN LEGEND**

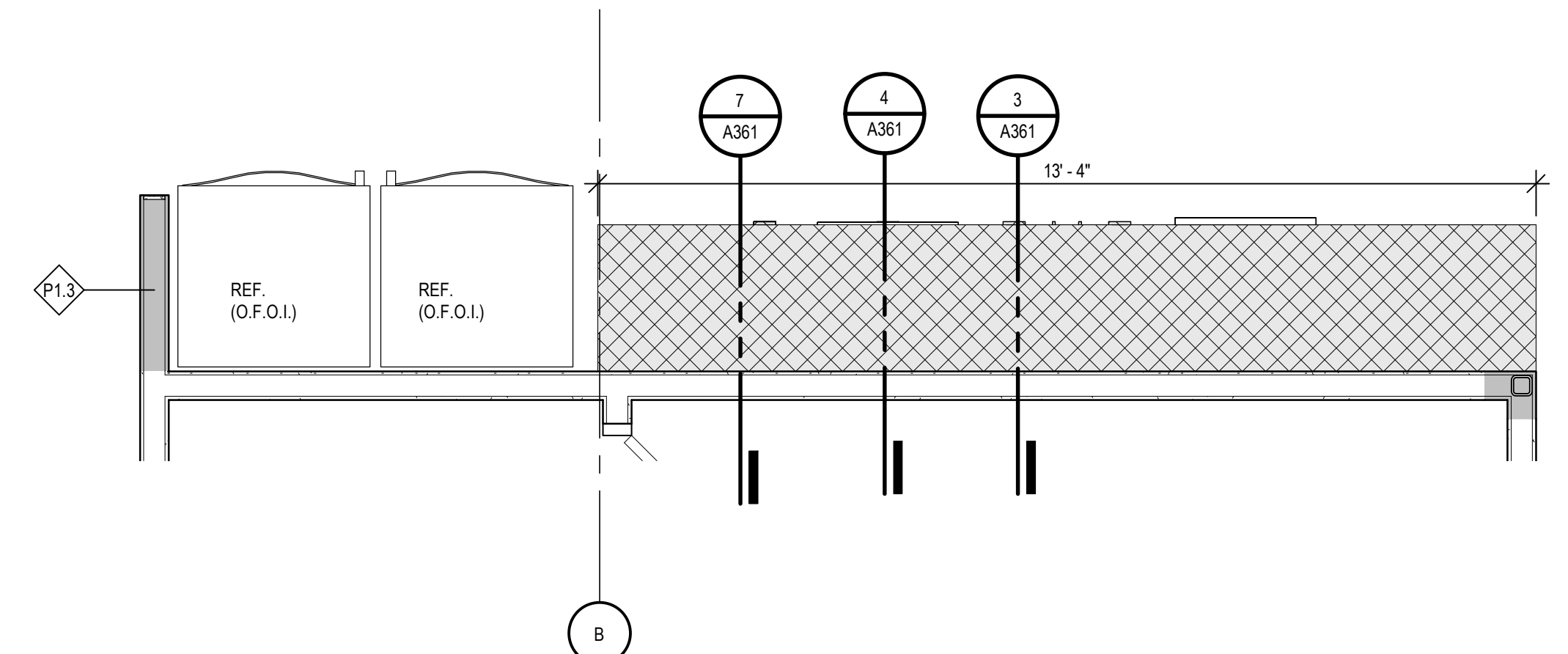
- SHADED AREA INDICATES EXISTING CONSTRUCTION TO REMAIN (NIC)
- EXISTING GYPSUM BOARD WALL WITH METAL STUDS (UNO)
- NEW WALL CONSTRUCTION - SEE WALL TYPES
- LINE OF CONSTRUCTION ABOVE
- PARTITION TYPE - REFER TO A051
- MILLWORK
- SFEC FIRE EXTINGUISHER CABINET - SURFACE MOUNTED
- ESFEC FIRE EXTINGUISHER CABINET - SURFACE MOUNTED - EXISTING
- CR CARD READER
- DD BARRIER FREE DOOR OPERATOR
- IC INTERCOM
- CUH CABINET UNIT HEATER - WALL MOUNTED
- RCUH CABINET UNIT HEATER - RECESSED MOUNTED
- CJ CONTROL JOINT

**GENERAL FLOOR PLAN NOTES**

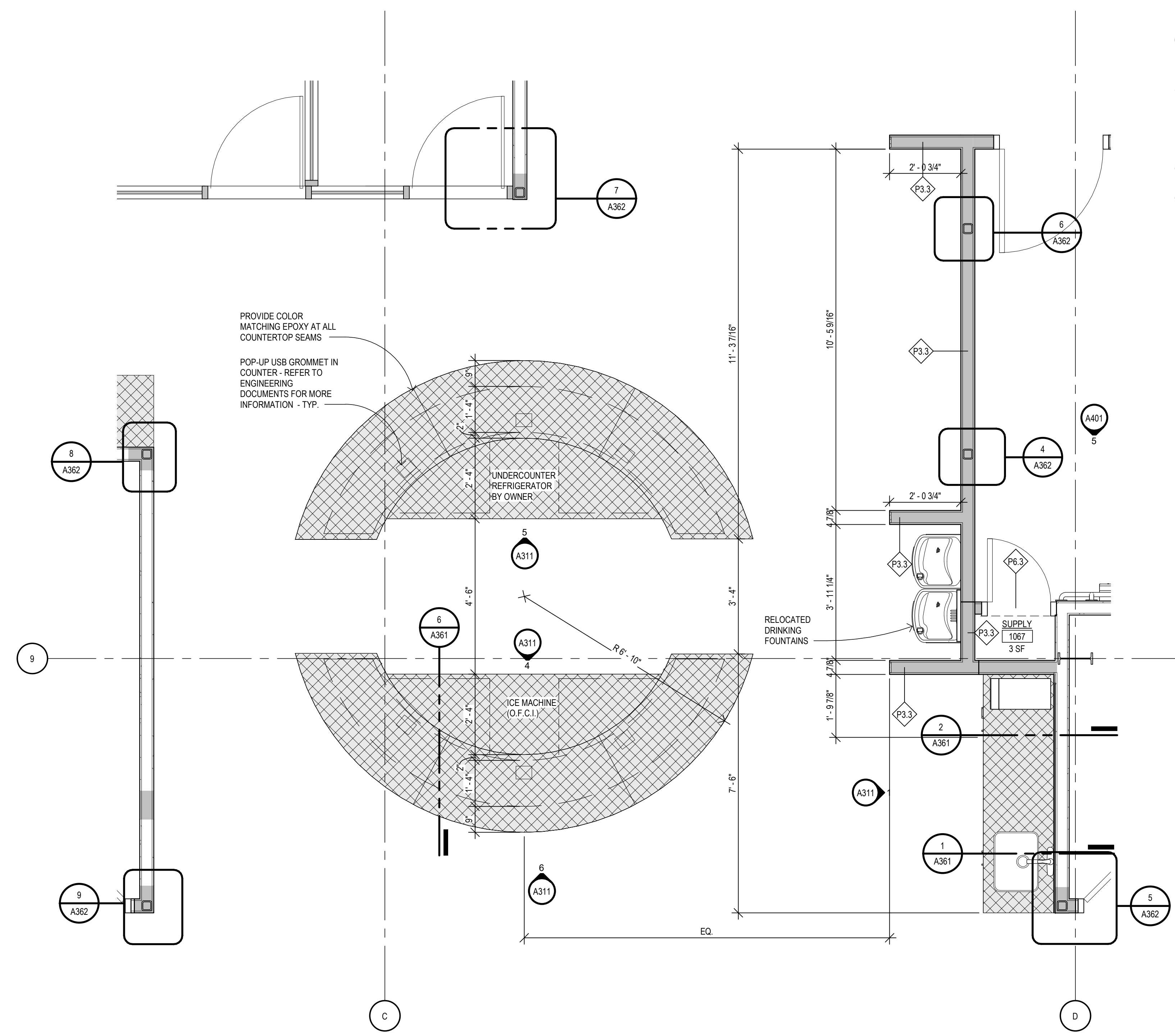
- ALL DIMENSIONS ARE TO THE FACE OF MASONRY / CONCRETE / GYPSUM BOARD AND CENTERLINE OF OPENINGS FOR DOORS AND WINDOWS (FACE OF OPENING WHEN LOCATED IN MASONRY / CONCRETE), UNLESS NOTED OTHERWISE.
- ALL DOORS TO BE SET OFF ADJACENT WALLS 4" UNLESS NOTED OTHERWISE.
- PROVIDE AND INSTALL SEALANT AT INTERSECTION OF ALL GYPSUM BOARD PARTITIONS AND MASONRY/CONCRETE WALLS, (BOTH SIDES OF PARTITIONS).
- PATCH ALL EXISTING TO REMAIN GYPSUM BOARD WALLS AS REQUIRED WHERE EXISTING WALL, EXISTING MILLWORK, OR EXISTING UTILITIES WERE REMOVED FROM THE WALL. ALSO PATCH WALL SURFACE WHERE GYPSUM BOARD WAS REMOVED TO ACCOMMODATE NEW WORK. PROVIDE LEVEL OF FINISH AS SPECIFIED.
- PLANS INDICATE MINIMUM REQUIREMENTS FOR FIRE EXTINGUISHERS. PROVIDE ADDITIONAL EXTINGUISHERS IF REQUIRED BY AUTHORITY HAVING JURISDICTION. FIRE EXTINGUISHERS TO COMPLY WITH NFPA 10.
- VERIFY SIZE AND LOCATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, PADS, PENETRATIONS AND SUPPORTS WITH MECHANICAL AND ELECTRICAL DOCUMENTS.
- TO THE MAXIMUM EXTENT POSSIBLE, FLOOR CLEAN-OUTS ARE TO BE LOCATED IN INCONSPICUOUS LOCATIONS. ALL FLOOR CLEAN-OUTS LOCATED IN AREAS WITH FINISH FLOORING ARE TO BE FITTED WITH FINISH FLOORING INSERTS. ALL CLEAN-OUTS ARE TO BE FLUSH WITH FLOOR/WALLS.
- REFER TO SHEET A011 FOR STANDARD AND BARRIER FREE MOUNTING HEIGHTS.
- REFER TO SPECIFICATIONS MANUAL FOR ADDITIONAL INFORMATION.

**GENERAL MILLWORK NOTES**

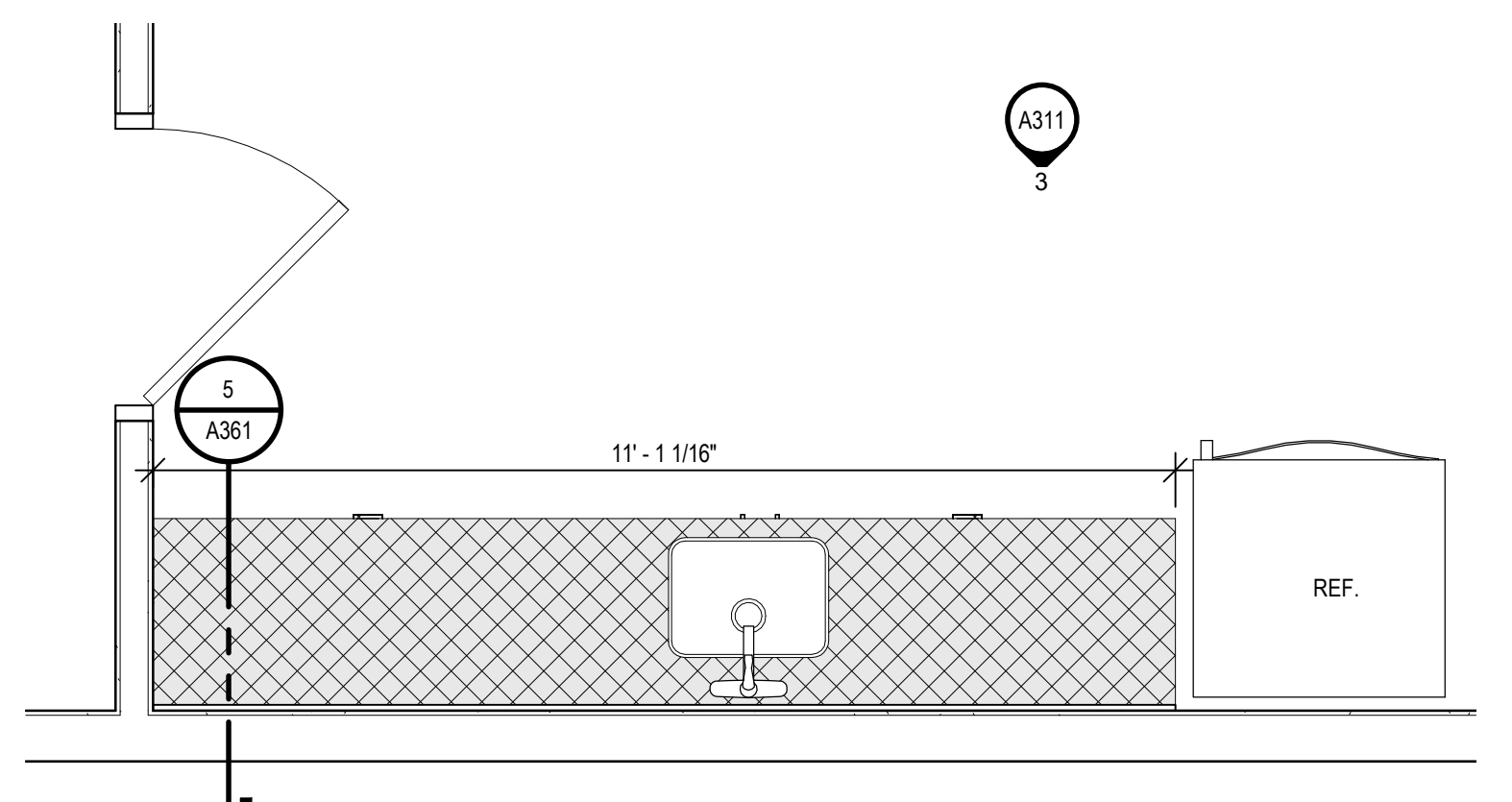
- REFER TO INTERIOR ELEVATIONS FOR ROOM PLASTIC LAMINATE TYPES, UNLESS NOTED OTHERWISE.
- PROVIDE PLASTIC LAMINATE ON ALL EXPOSED EDGES AND SURFACES UNLESS NOTED OTHERWISE.
- PROVIDE PLASTIC LAMINATE CLADDING ON INTERIOR SIDES AND BACKS OF ALL BASE CABINETS/CABINETS UNLESS NOTED OTHERWISE.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF MILLWORK.
- HAND EASE ALL EXPOSED STONE EDGES.
- POLISH ALL EXPOSED EDGES OF STONE COUNTERTOPS.
- DIMENSIONS TO PULLS ARE TO THE CENTER LINE OF THE PULL.
- PROVIDE SOFT CLOSE DRAWER GLIDES FOR ALL DRAWERS.
- PROVIDE CONCEALED HINGES ON ALL DOORS AND DRAWERS.
- PROVIDE CONCEALED HINGES AS REQUIRED FOR ALL CABINET DOORS UNLESS NOTED OTHERWISE.
- REFER TO SPECIFICATIONS FOR HARDWARE INFORMATION.
- PROVIDE PVC COLOR MATCH EDGE BANDING ON ALL DOORS, DRAWERS, SHELVES, ETC.



**2 ENLARGED WORK CAFE - DEDUCT ALTERNATE 6**  
A111 SCALE: 1/2" = 1'-0"



**1 ENLARGED WORK CAFE**  
A111 SCALE: 1/2" = 1'-0"



**3 ENLARGED V.I.P. SUITE - DEDUCT ALTERNATE 5**  
A111 SCALE: 1/2" = 1'-0"

**DRAWING SET INFO**

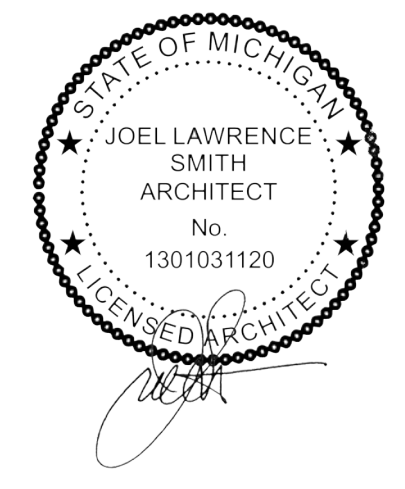
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ISSUE DATE:	
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ISSUE DATE: 2022.03.24	
50% CONSTRUCTION DOC. REVIEW	☐
ISSUE DATE: 2022.04.14	
50% CONSTRUCTION DOC. REVIEW	☐
ISSUE DATE: 2022.04.29	
BID AND CONSTRUCTION SET	☑
ISSUE DATE: 2022.04.29	
RECORD DRAWINGS - AS BUILT SET	☐
ISSUE DATE:	
FOR REFERENCE ONLY	☐
ISSUE DATE:	
STATE PLAN REVIEW	☐
ISSUE DATE:	

**ADDENDUM/BULLETIN REVISIONS**

Δ	DATE	DESCRIPTION

SCALE 1/2" = 1'-0"  
DRAWN BY: KT  
CHECKED BY: PH  
APPROVED BY: SC

SHEET NO. **A112**  
A/E PROJECT NO. **2022081**  
CMU PROJECT NO. **655113**



1 2 3 4 5 6 7 8 9 10

**CMU**

**CENTRAL MICHIGAN UNIVERSITY**

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 2526 DENISON DRIVE, MOUNT PLEASANT, MI 48858

**ARCHITECTURAL**  
 CMURC / RIP-IT RENOVATION  
 MEZZANINE PLAN

**DRAWING SET INFO**

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50% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
ISSUE DATE:	
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ISSUE DATE: 2023.03.24	
50% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
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FOR REFERENCE ONLY	<input type="checkbox"/>
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STATE PLAN REVIEW	<input type="checkbox"/>
ISSUE DATE:	

**ADDENDUM/BULLETIN REVISIONS**

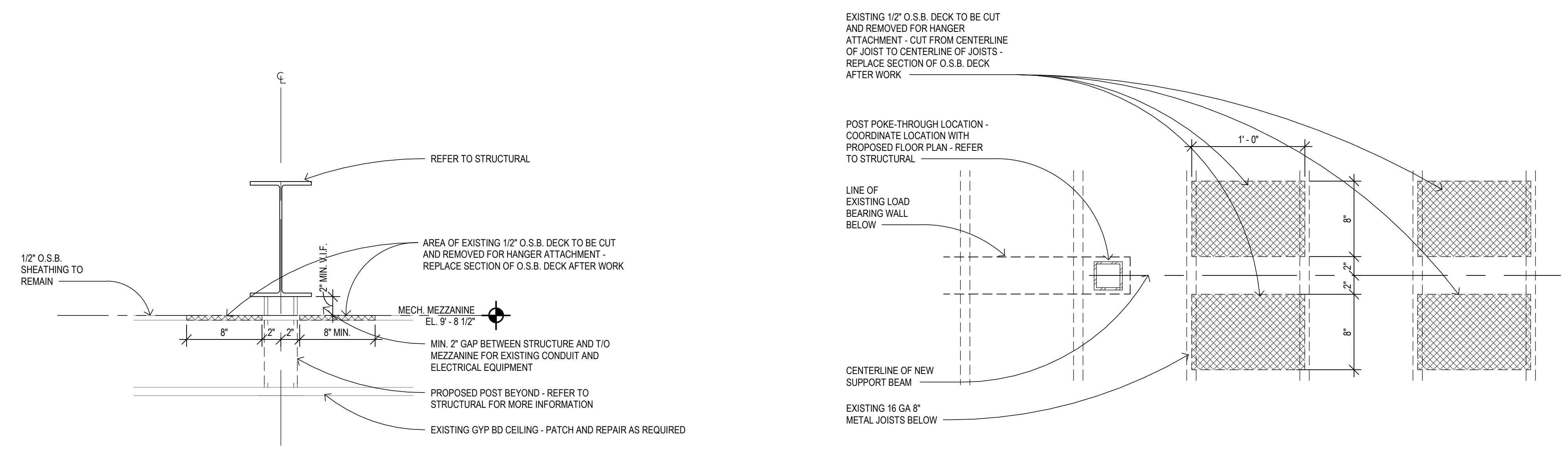
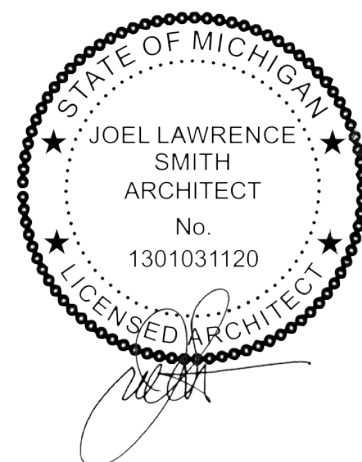
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DRAWN BY: \_\_\_\_\_ KT  
 CHECKED BY: \_\_\_\_\_ PH  
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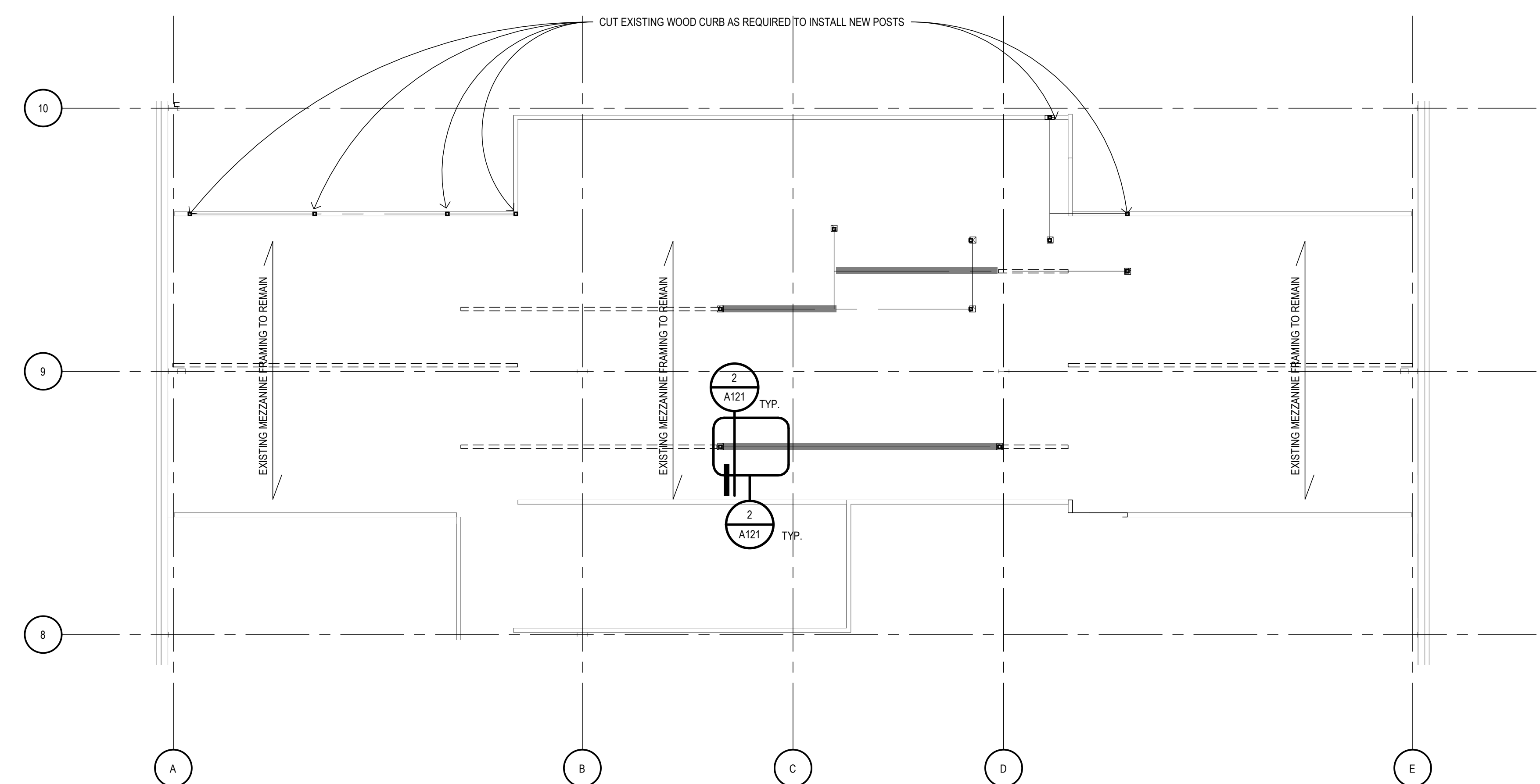
**SHEET NO.**

18" = 1'-0"  
**A121**  
 A/E PROJECT NO.  
**2022081**  
 CMU PROJECT NO.  
**655113**



**3 MEZZANINE SECTION DETAIL**  
 A121 SCALE: 1 1/2" = 1'-0"

**2 MEZZANINE PLAN DETAIL**  
 A121 SCALE: 1 1/2" = 1'-0"



**1 MEZZANINE PLAN**  
 A121 SCALE: 18" = 1'-0"

**MEZZANINE PLAN LEGEND**

- EXISTING LOAD BEARING WALL BELOW TO REMAIN
- EXISTING LOAD BEARING WALL TO BE REMOVED BELOW
- LOCATION OF PROPOSED POST POKE-THROUGHS - COORDINATE LOCATION WITH PROPOSED FLOOR PLAN - REFER TO STRUCTURAL FOR MORE INFORMATION

H  
G  
F  
E  
D  
C  
B  
A

4/27/2023 1:33:16 PM | PROJ. NO. 2022081

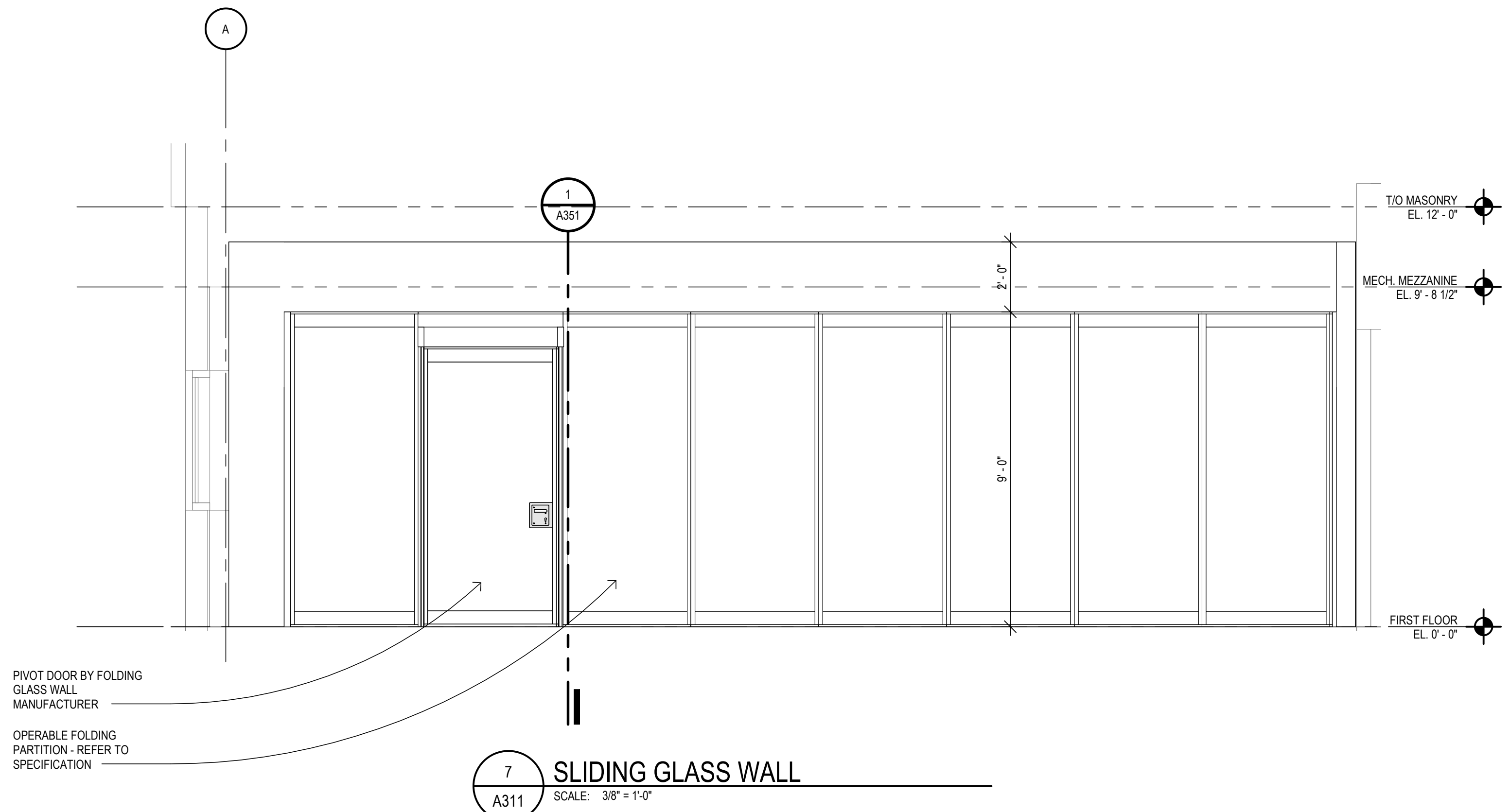
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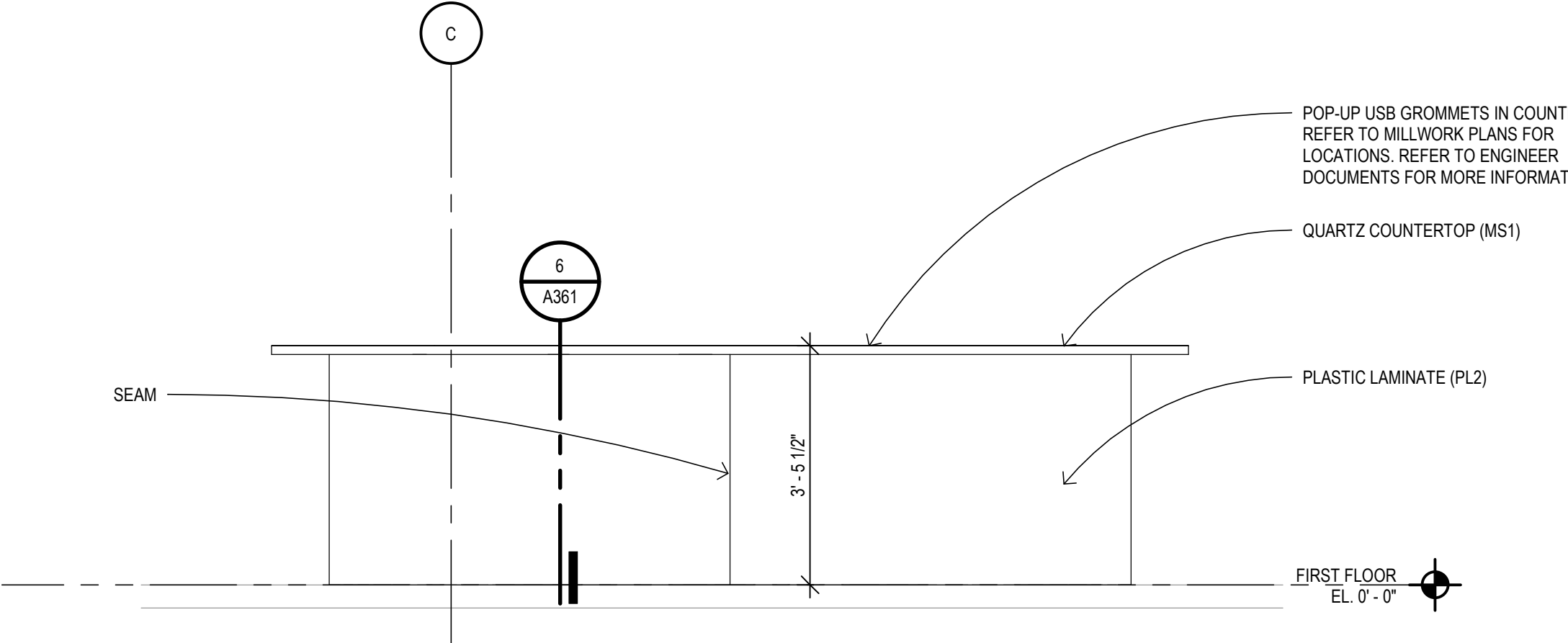
**GENERAL MILLWORK NOTES**

- REFER TO INTERIOR ELEVATIONS FOR ROOM PLASTIC LAMINATE TYPES, UNLESS NOTED OTHERWISE.
- PROVIDE PLASTIC LAMINATE ON ALL EXPOSED EDGES AND SURFACES UNLESS NOTED OTHERWISE.
- PROVIDE PLASTIC LAMINATE CLADDING ON INTERIOR SIDES AND BACKS OF ALL BASE CABINETS/CABINETS UNLESS NOTED OTHERWISE.
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- REFER TO SPECIFICATIONS FOR HARDWARE INFORMATION.
- PROVIDE PVC COLOR MATCH EDGE BANDING ON ALL DOORS, DRAWERS, SHELVES, ETC.

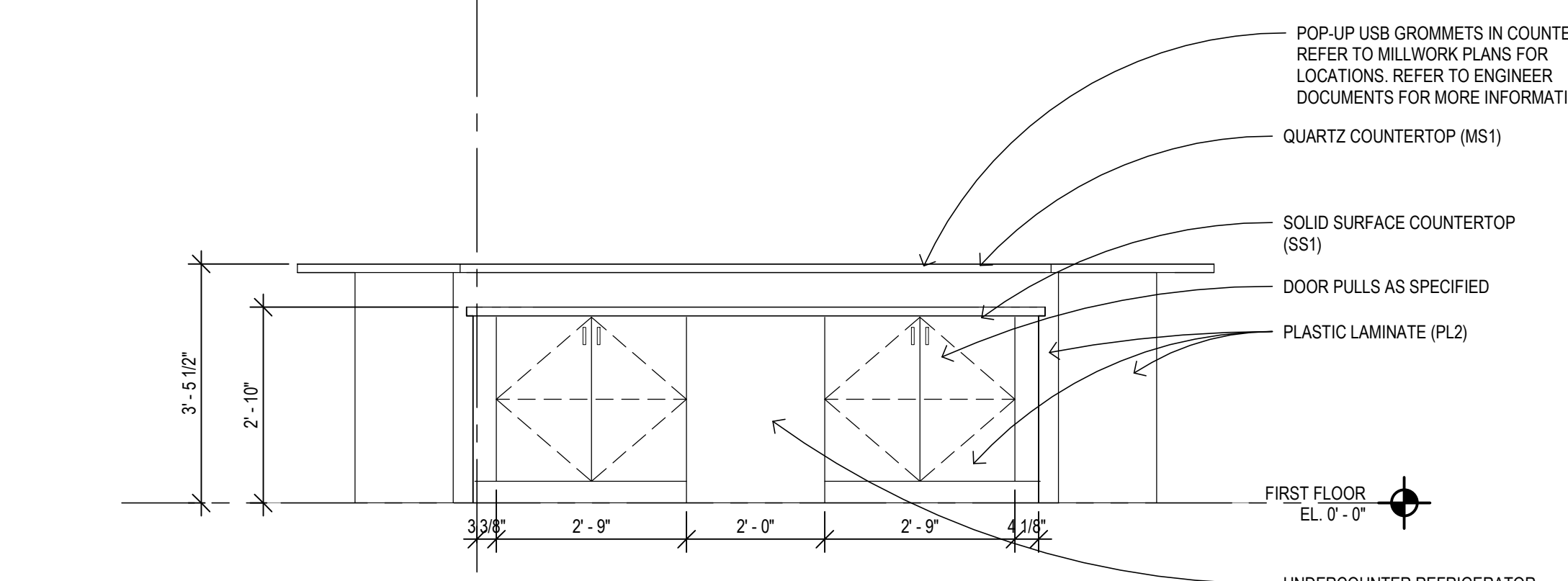
NOTE: ALL APPLIANCES ARE FURNISHED AND INSTALLED BY OWNER UNLESS NOTED OTHERWISE



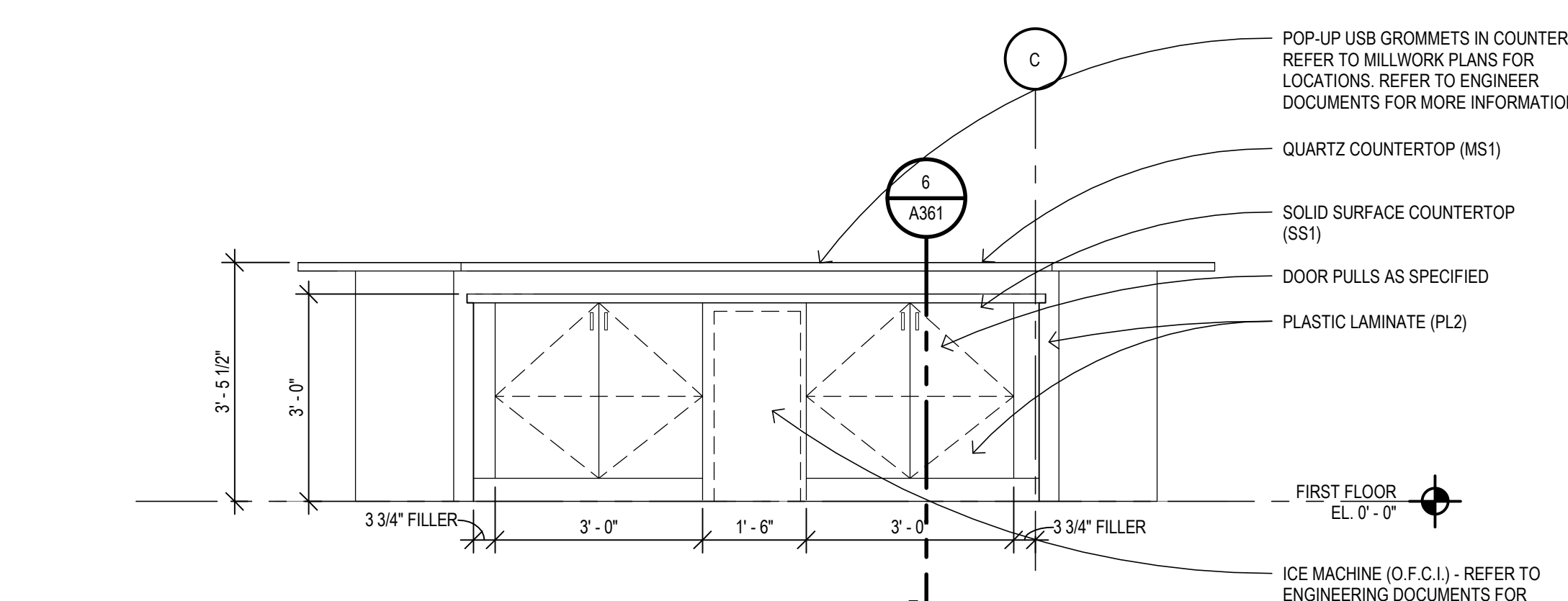
**7 SLIDING GLASS WALL**  
 A311 SCALE: 3/8" = 1'-0"



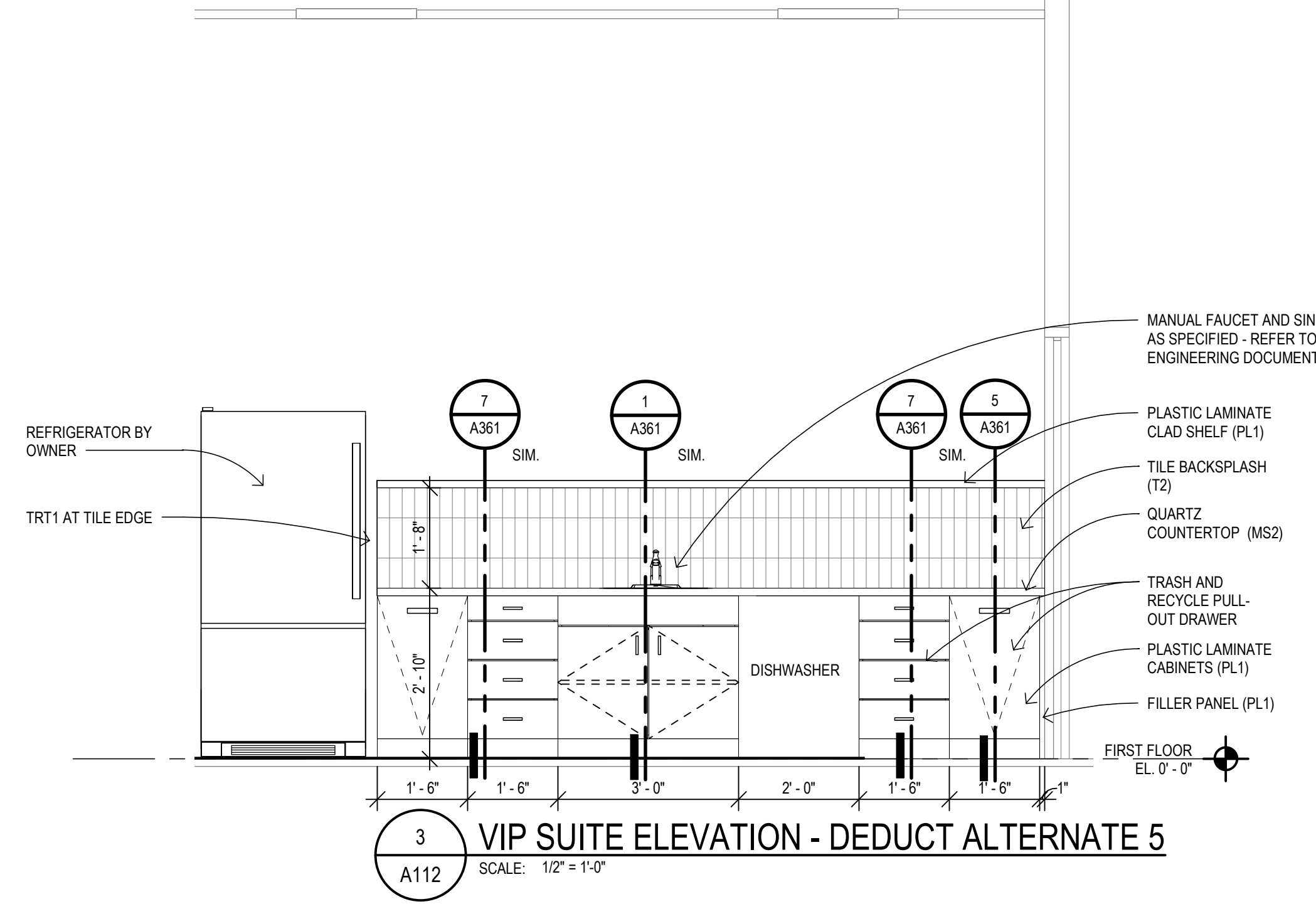
**6 MILLWORK ELEVATION**  
 A112 SCALE: 1/2" = 1'-0"



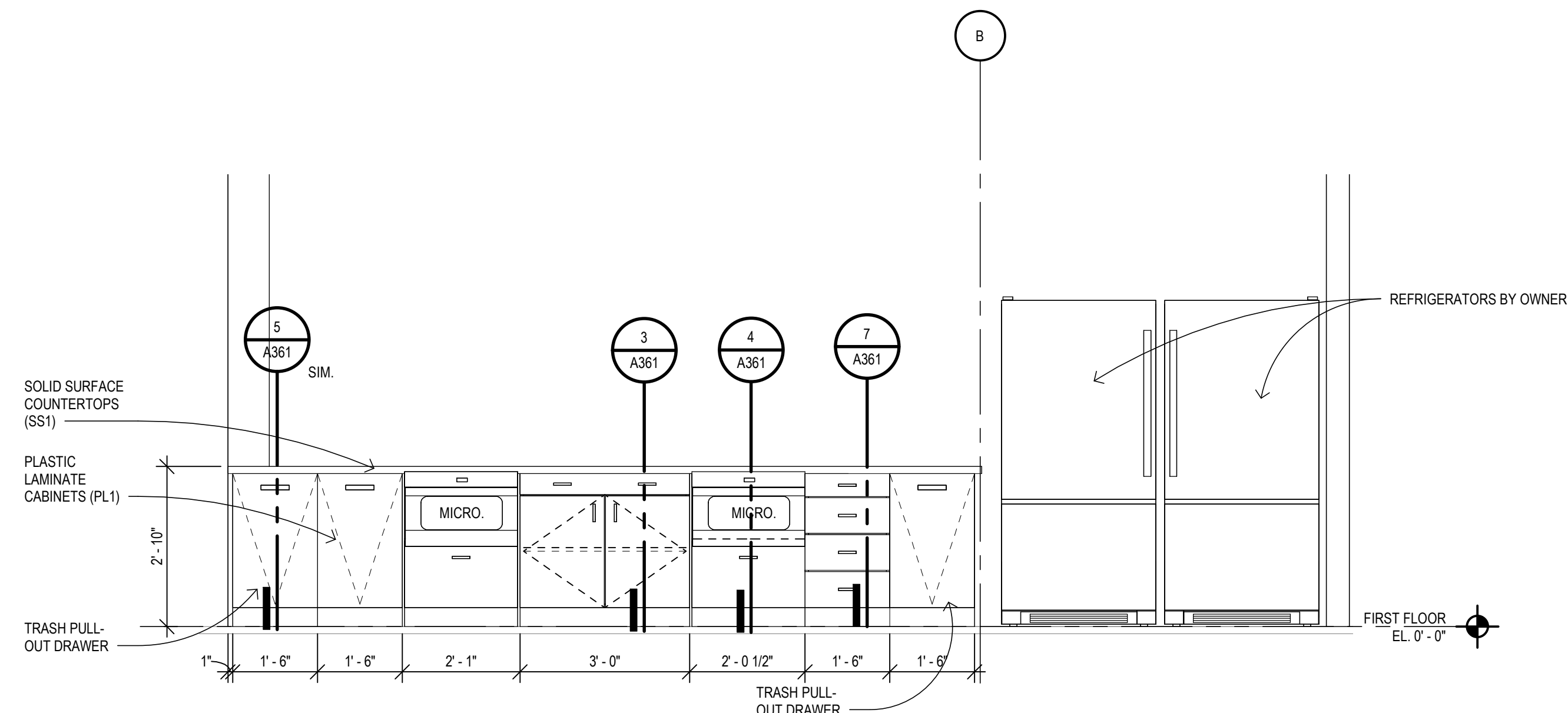
**5 MILLWORK ELEVATION**  
 A112 SCALE: 1/2" = 1'-0"



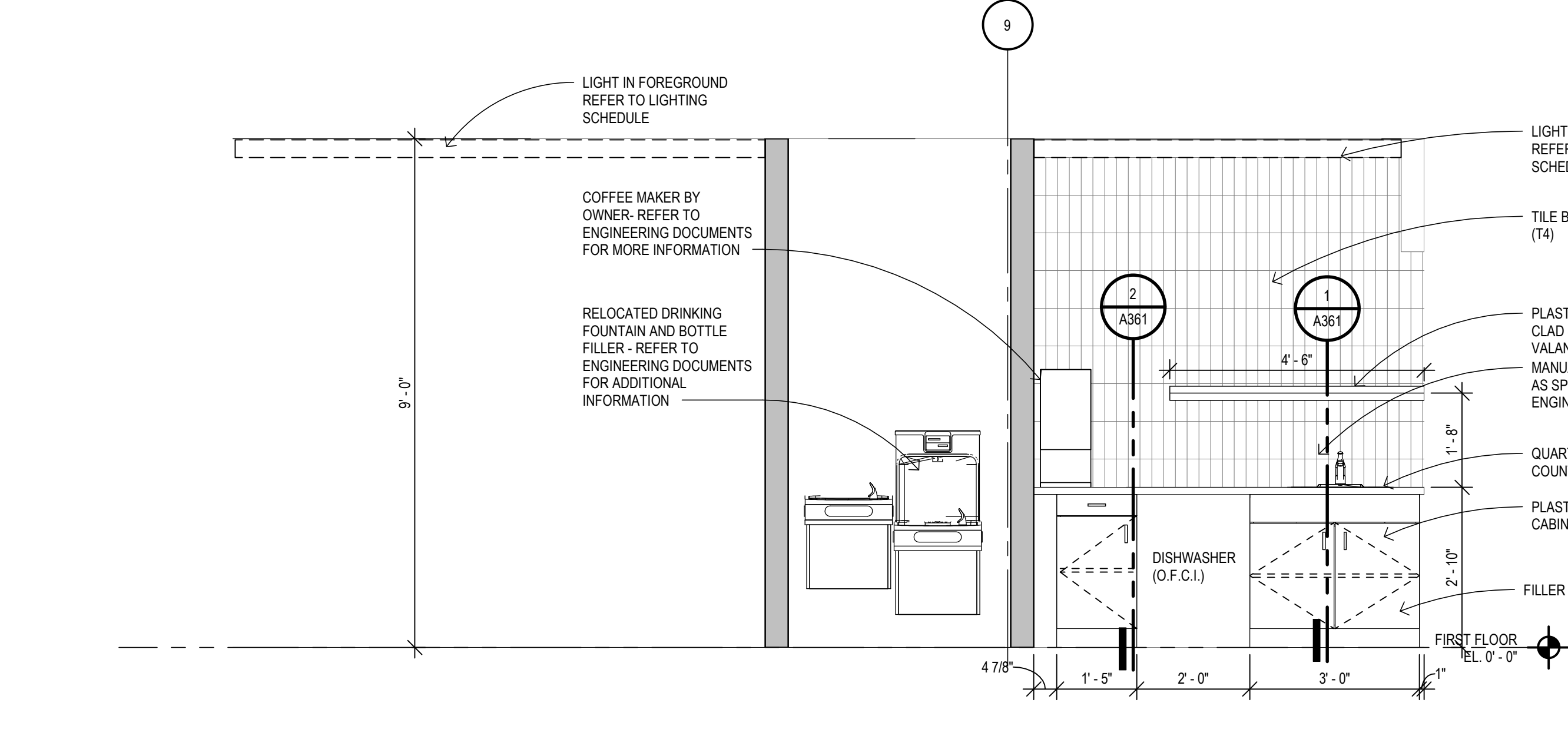
**4 MILLWORK ELEVATION**  
 A112 SCALE: 1/2" = 1'-0"



**3 VIP SUITE ELEVATION - DEDUCT ALTERNATE 5**  
 A112 SCALE: 1/2" = 1'-0"



**2 WORK CAFE ELEVATION - DEDUCT ALTERNATE 6**  
 A112 SCALE: 1/2" = 1'-0"



**1 WORK CAFE ELEVATION**  
 A112 SCALE: 1/2" = 1'-0"

**DRAWING SET INFO**

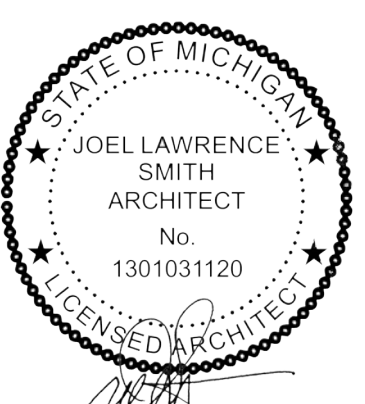
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FOR REFERENCE ONLY	<input type="checkbox"/>
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**ADDENDUM/BULLETIN REVISIONS**

DATE	DESCRIPTION

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 DRAWN BY: KT  
 CHECKED BY: PH  
 APPROVED BY: SC

SHEET NO. **A311**  
 A/E PROJECT NO. **2022081**  
 CMU PROJECT NO. **655113**





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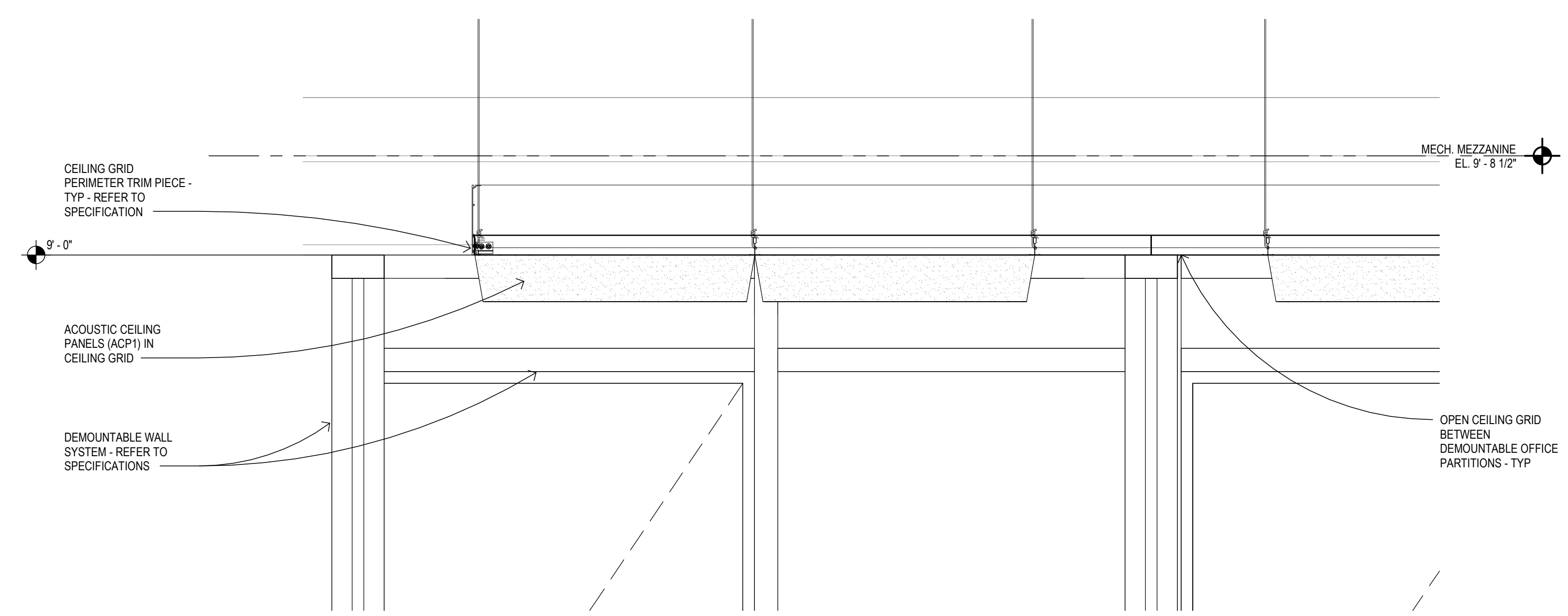
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**ADDENDUM/BULLETIN REVISIONS**

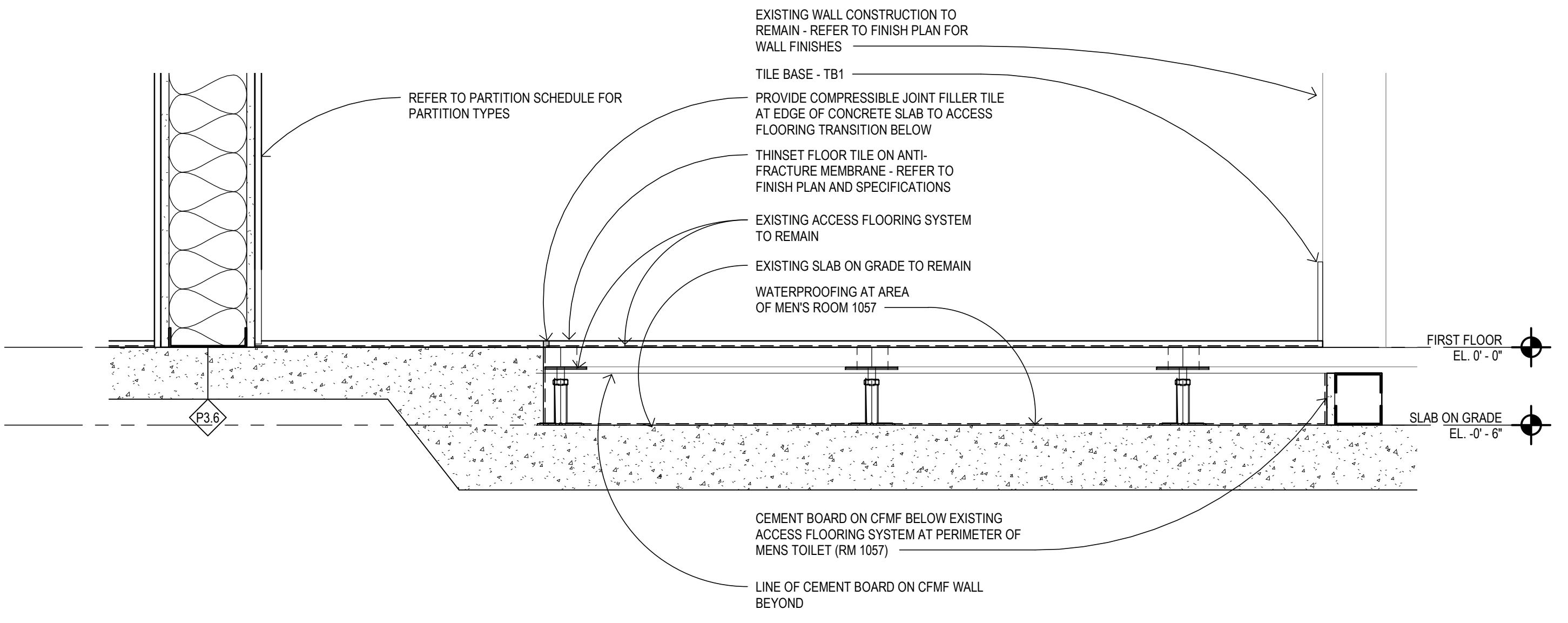
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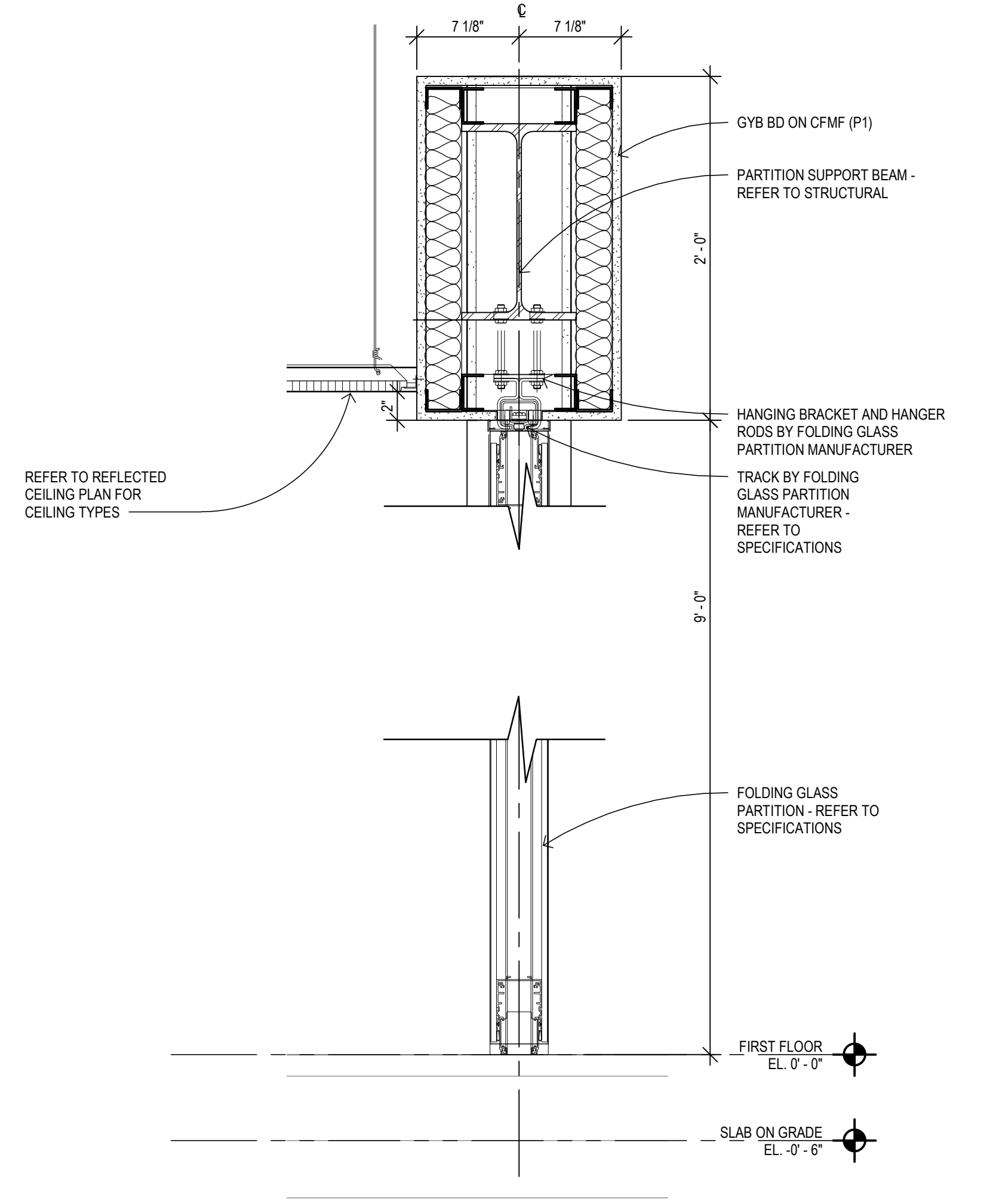
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**A351**  
 A/E PROJECT NO.  
**2022081**  
 CMU PROJECT NO.  
**655113**



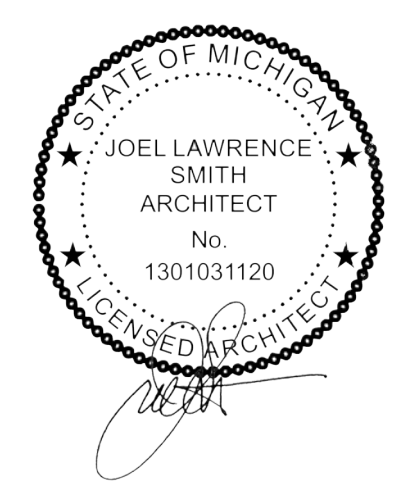
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 A611 SCALE: 1/12" = 1'-0"



**3 INTERIOR SECTION DETAIL**  
 A401 SCALE: 1/12" = 1'-0"



**1 FOLDING GLASS PARTITION SECTION**  
 A111 SCALE: 1/12" = 1'-0"



4/27/2023 1:33:22 PM | PROJ. NO. 2022081

DRAWING SET INFO

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ADDENDUM/BULLETIN REVISIONS

Δ	DATE	DESCRIPTION

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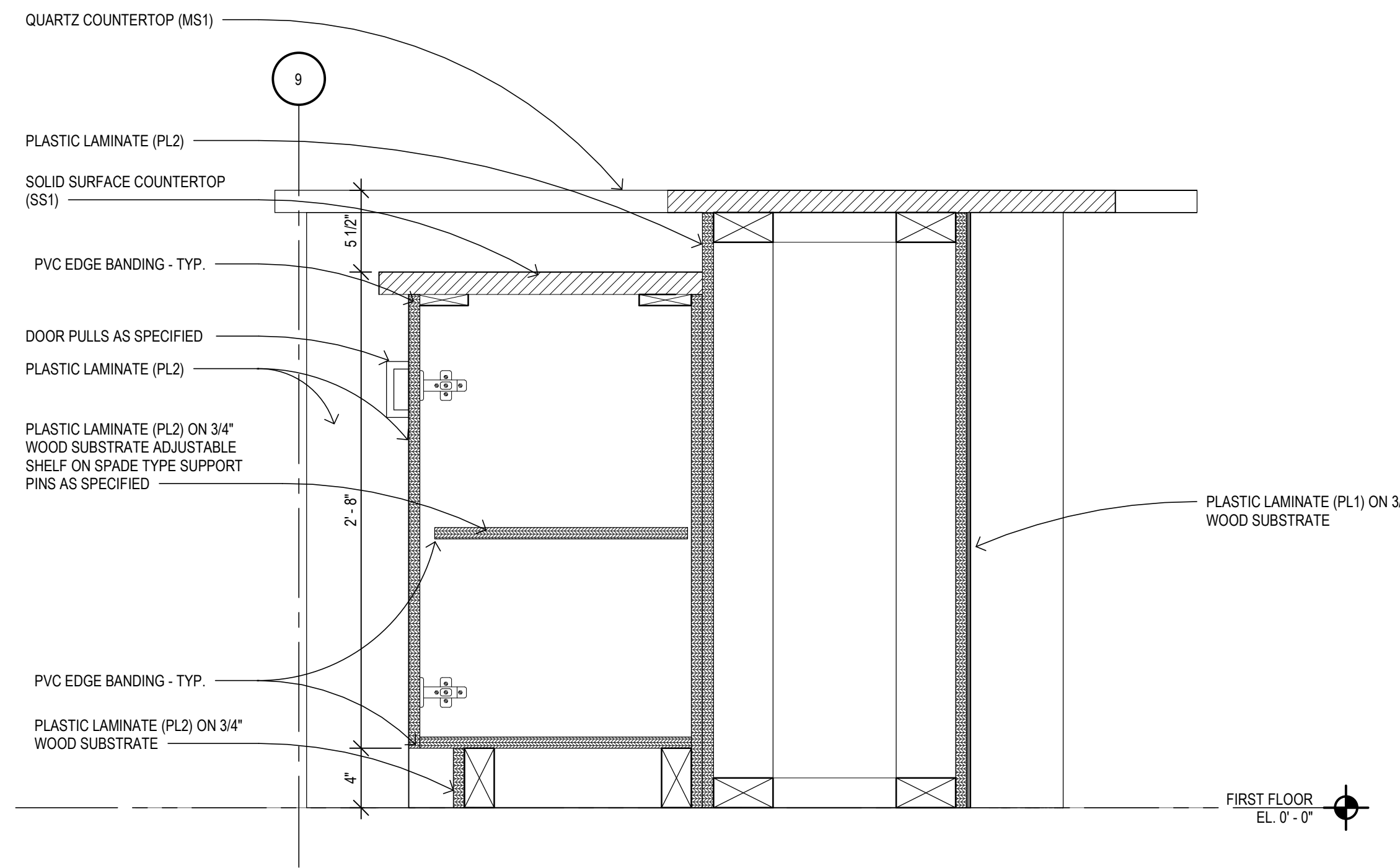
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SHEET NO.

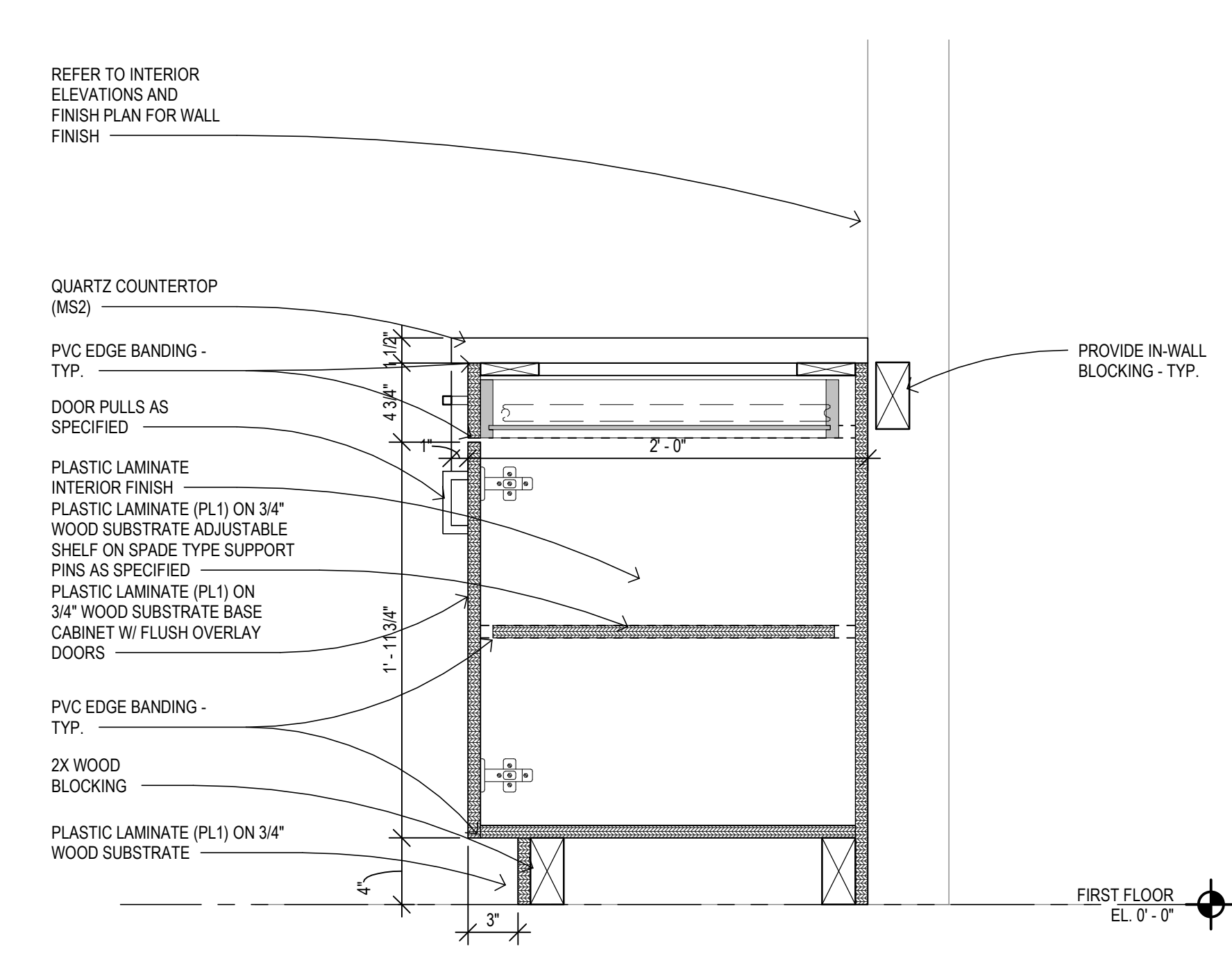
A361  
A/E PROJECT NO.  
2022081  
CMU PROJECT NO.  
655113

GENERAL MILLWORK NOTES

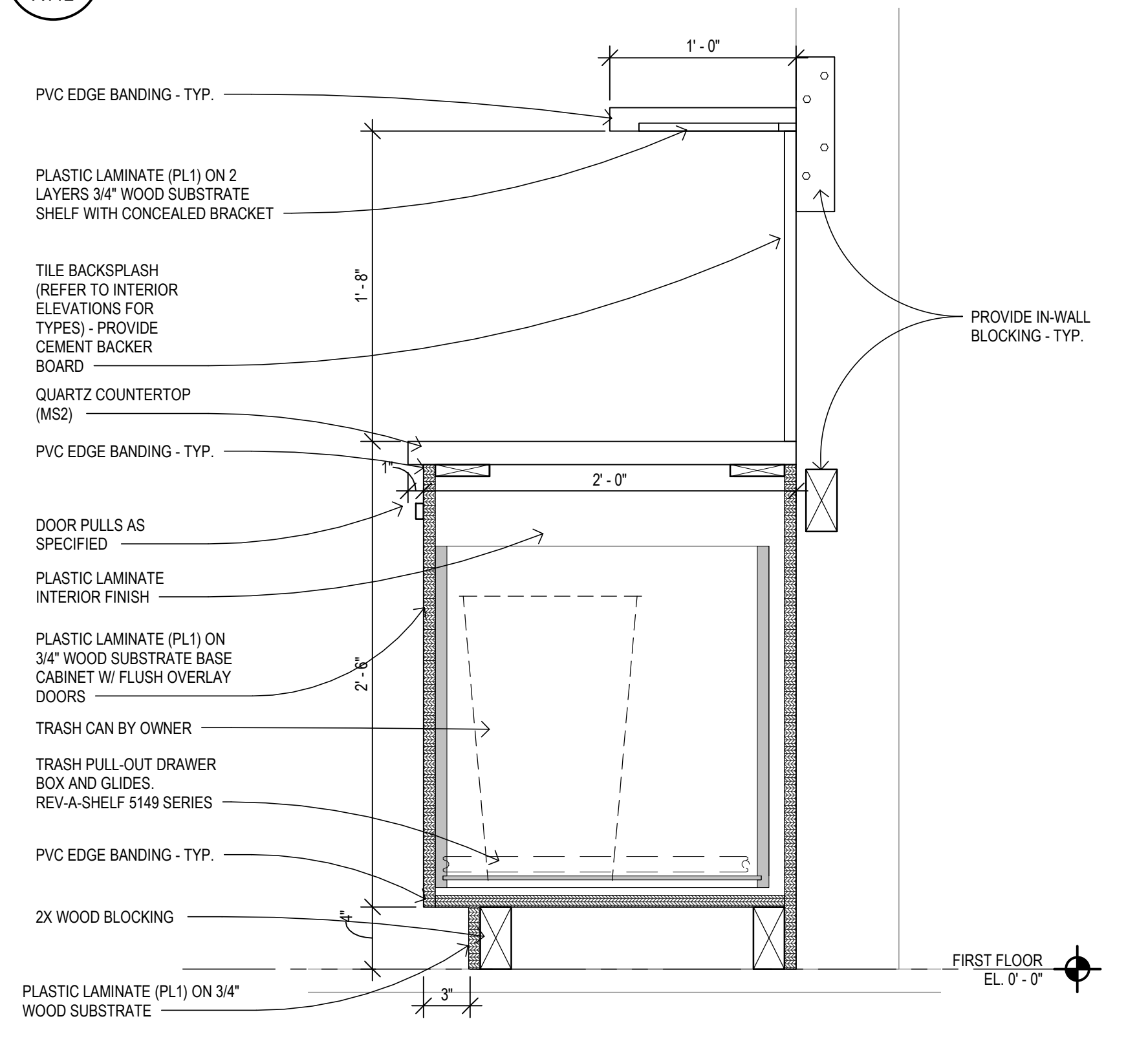
- REFER TO INTERIOR ELEVATIONS FOR ROOM PLASTIC LAMINATE TYPES, UNLESS NOTED OTHERWISE.
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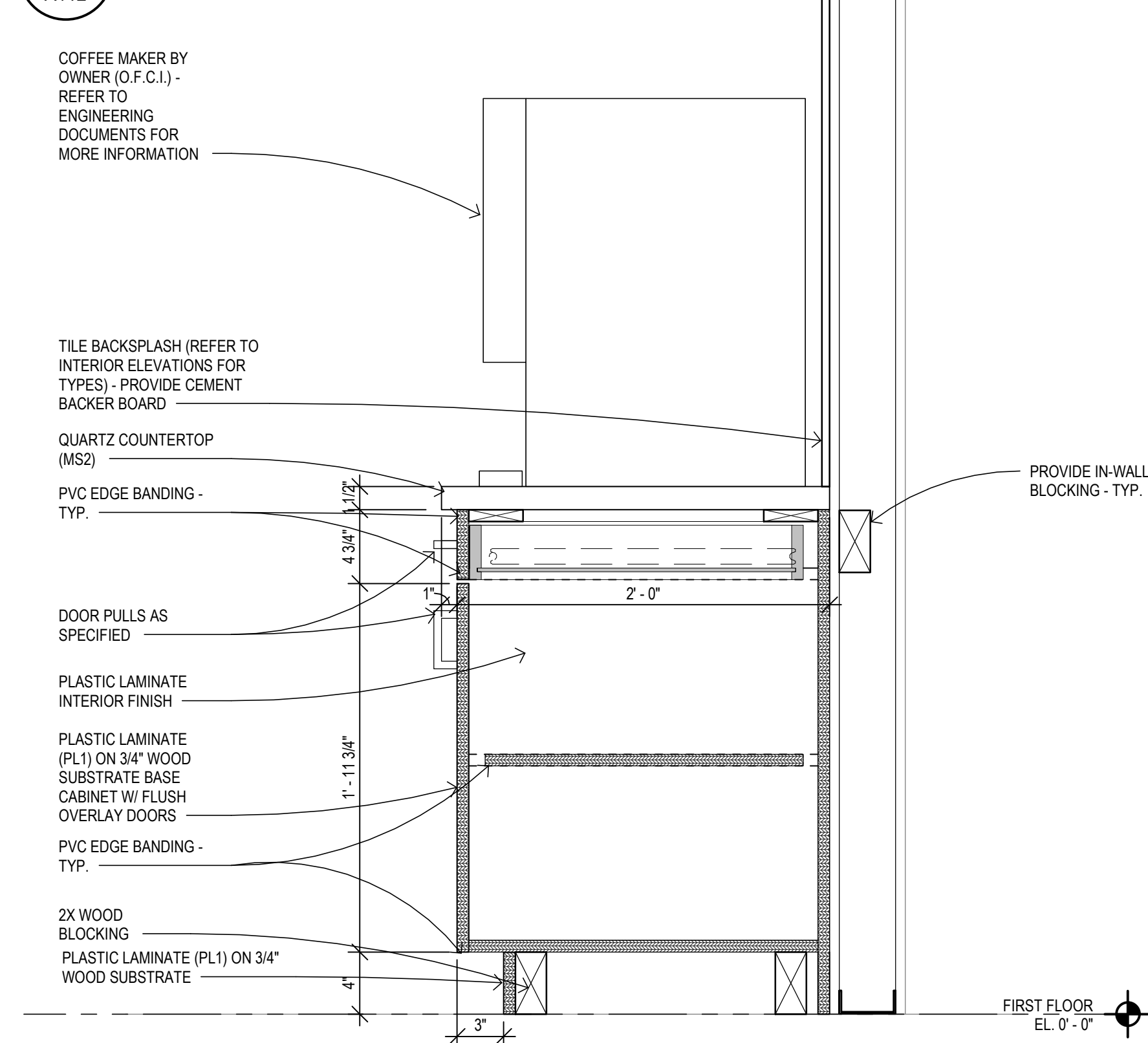
6 MILLWORK SECTION  
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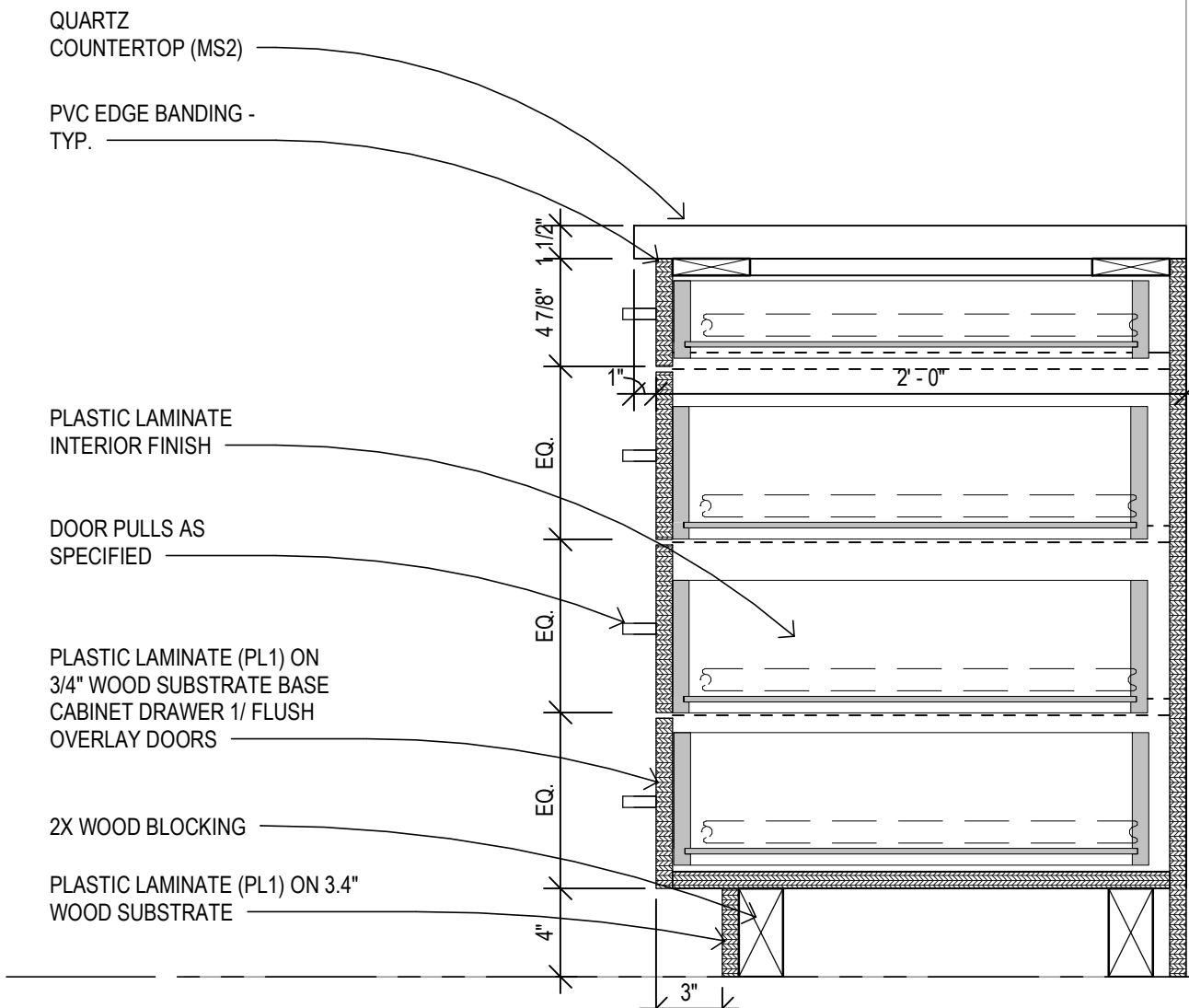
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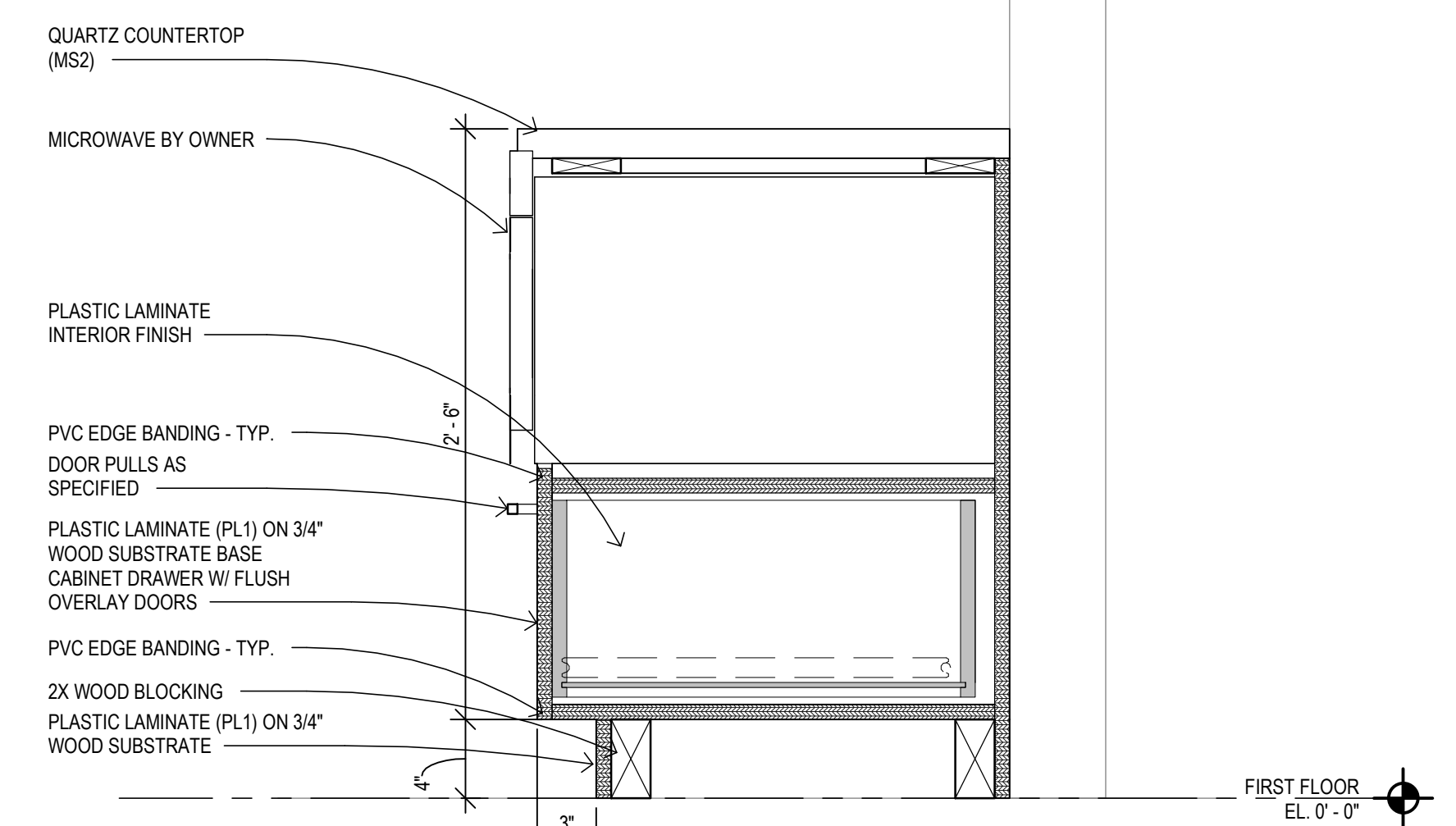
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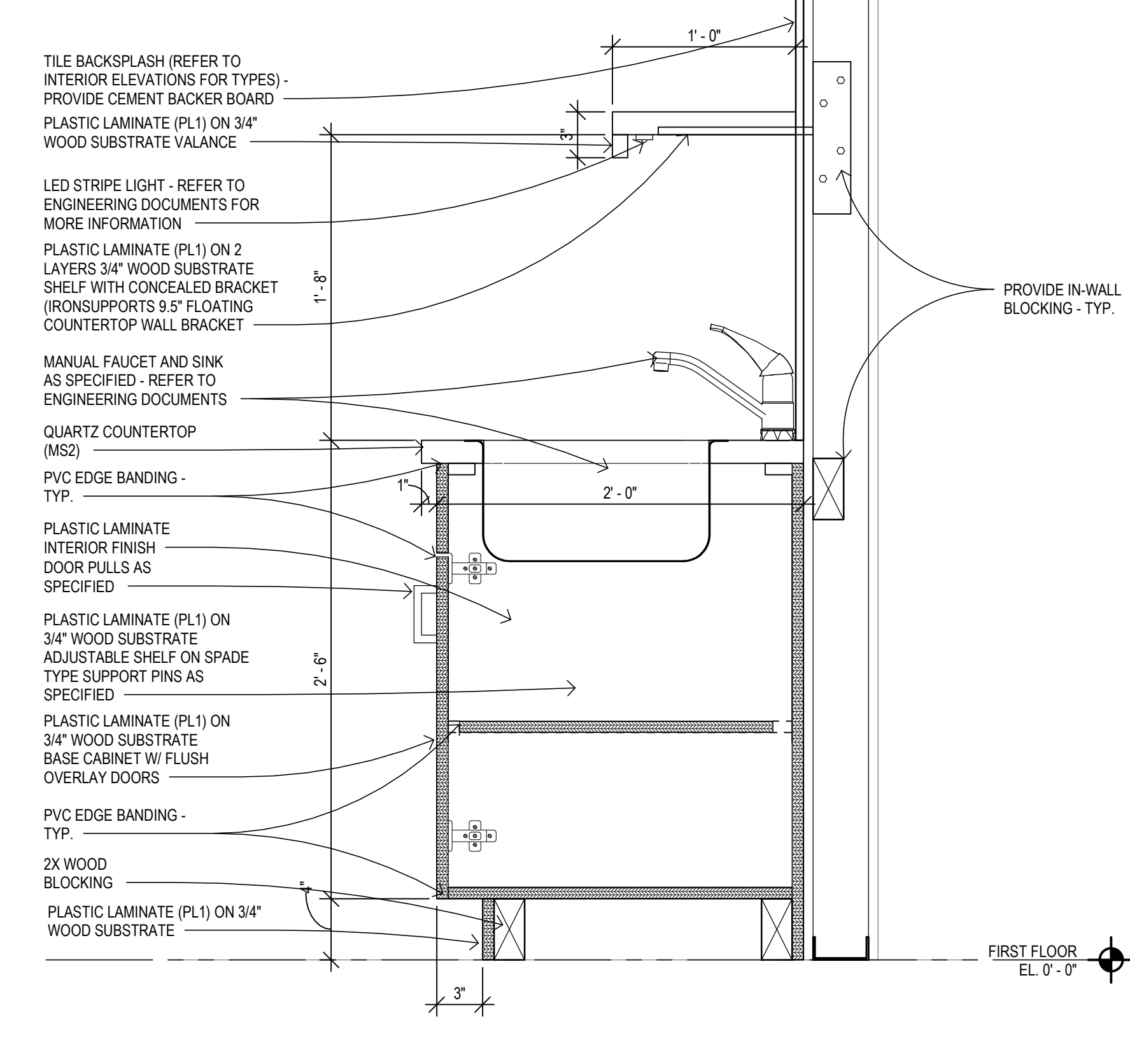
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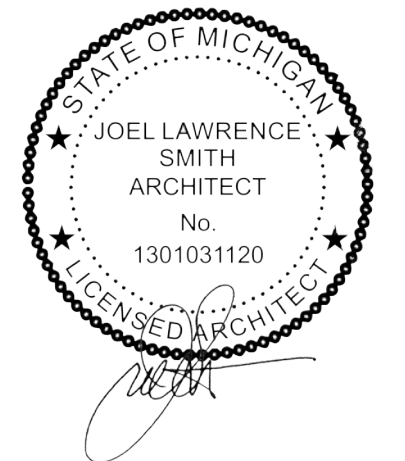
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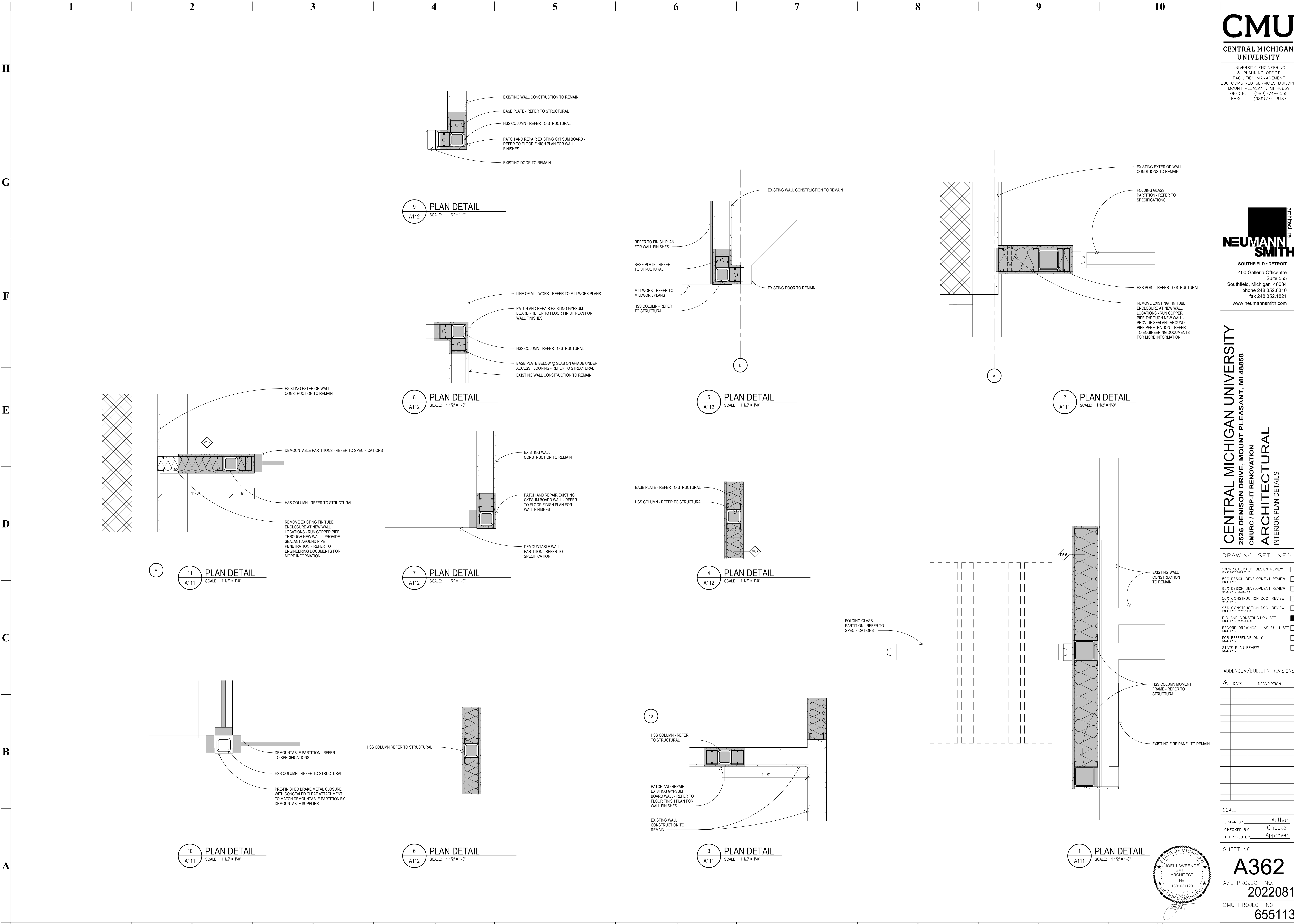
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1 MILLWORK SECTION  
A112 SCALE: 1 1/2" = 1'-0"







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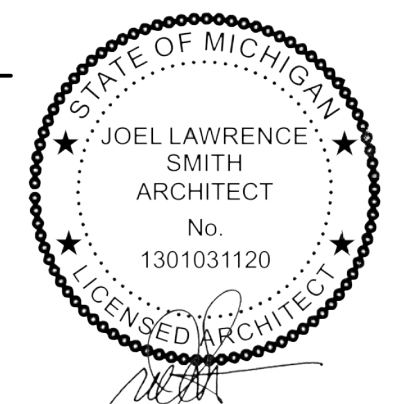
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STATE PLAN REVIEW	<input type="checkbox"/>
ISSUE DATE:	

ADDENDUM/BULLETIN REVISIONS

Δ	DATE	DESCRIPTION

SCALE  
DRAWN BY: Author  
CHECKED BY: Checker  
APPROVED BY: Approver

SHEET NO.  
**A362**  
A/E PROJECT NO.  
**2022081**  
CMU PROJECT NO.  
**655113**



**TOILET ROOM ACCESSORY LEGEND**

- |   |  |
|---|--|
| 1 | 36" GRAB BAR (REUSE SALVAGED)  |
| 2 | 42" GRAB BAR (REUSE SALVAGED)  |
| 3 | 18" GRAB BAR   |
| 4 | TOILET TISSUE DISPENSER, SURFACE MOUNTED (O.F.C.I.)                        |
| 5 | COMBINATION PAPER TOWEL DISPENSER / WASTE RECEPTACLE UNIT (REUSE SALVAGED) |
| 6 | MANUAL SOAP DISPENSER, WALL MOUNTED (O.F.C.I.)                             |
| 7 | MIRROR   |
| 8 | COAT HOOK  |

- TOILET ACCESSORY NOTES:**
- PROVIDE CONCEALED WOOD BLOCKING FOR ALL WALL MOUNTED EQUIPMENT.
  - REFER TO TYPICAL EQUIPMENT MOUNTING HEIGHTS FOR ADDITIONAL INFORMATION.
  - REFER TO SPECIFICATIONS FOR TOILET PARTITIONS INFORMATION.
  - REFER TO PLUMBING DOCUMENTS FOR PLUMBING FIXTURES.

**DRAWING SET INFO**

- |                                |                                     |
|--------------------------------|-------------------------------------|
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| ISSUE DATE: 2023.03.17         |                                     |
| 50% DESIGN DEVELOPMENT REVIEW  | <input type="checkbox"/>            |
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| BID AND CONSTRUCTION SET       | <input checked="" type="checkbox"/> |
| ISSUE DATE: 2023.04.24         |                                     |
| RECORD DRAWINGS - AS BUILT SET | <input type="checkbox"/>            |
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| FOR REFERENCE ONLY             | <input type="checkbox"/>            |
| ISSUE DATE:                    |                                     |
| STATE PLAN REVIEW              | <input type="checkbox"/>            |
| ISSUE DATE:                    |                                     |

**ADDENDUM/BULLETIN REVISIONS**

Δ	DATE	DESCRIPTION

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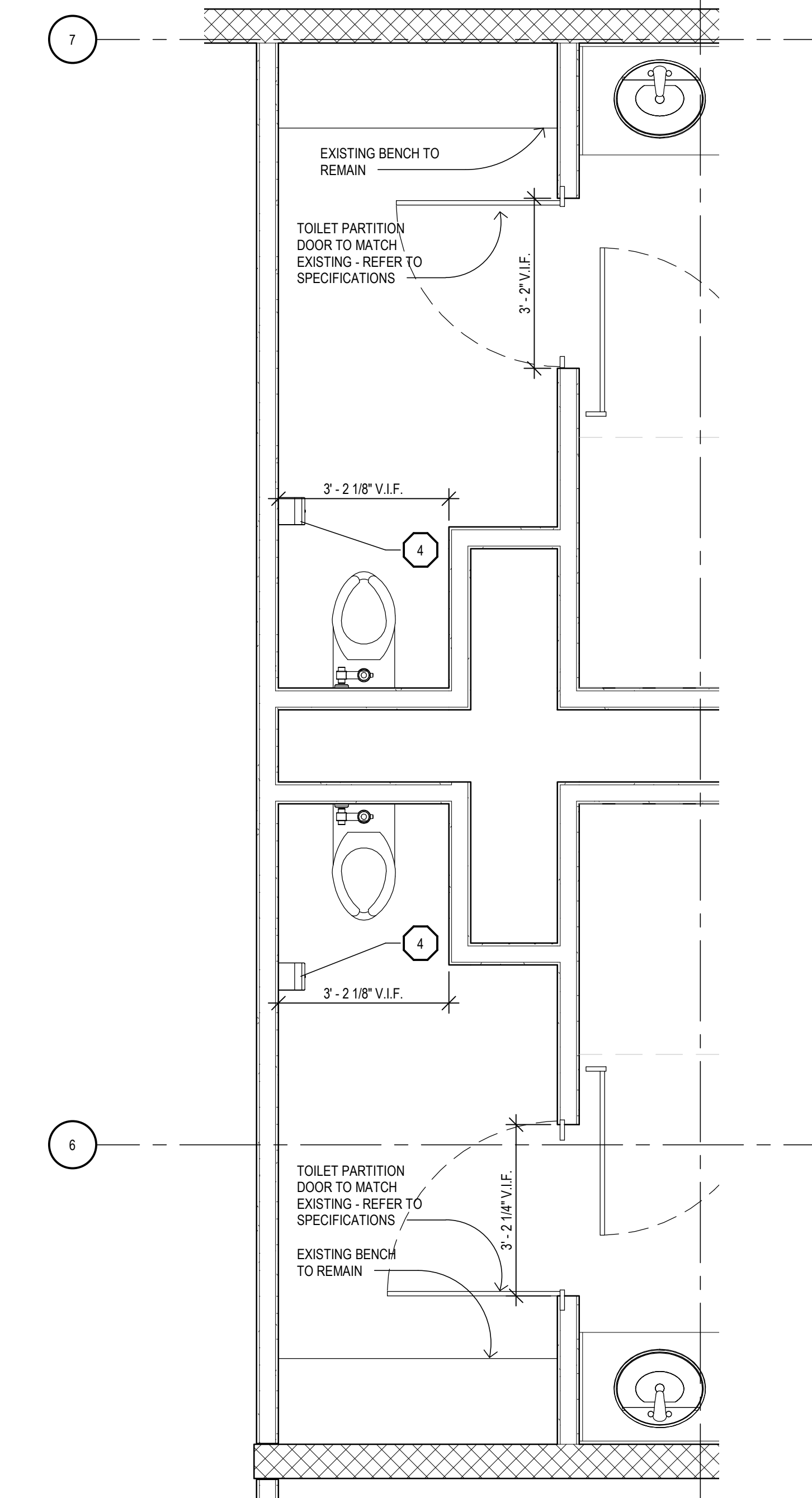
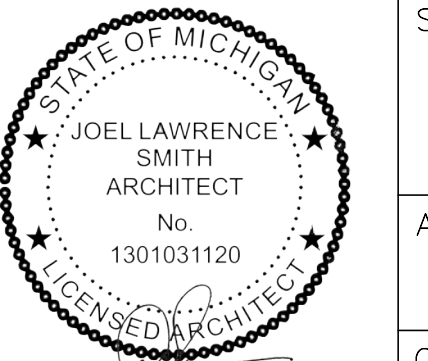
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SHEET NO.

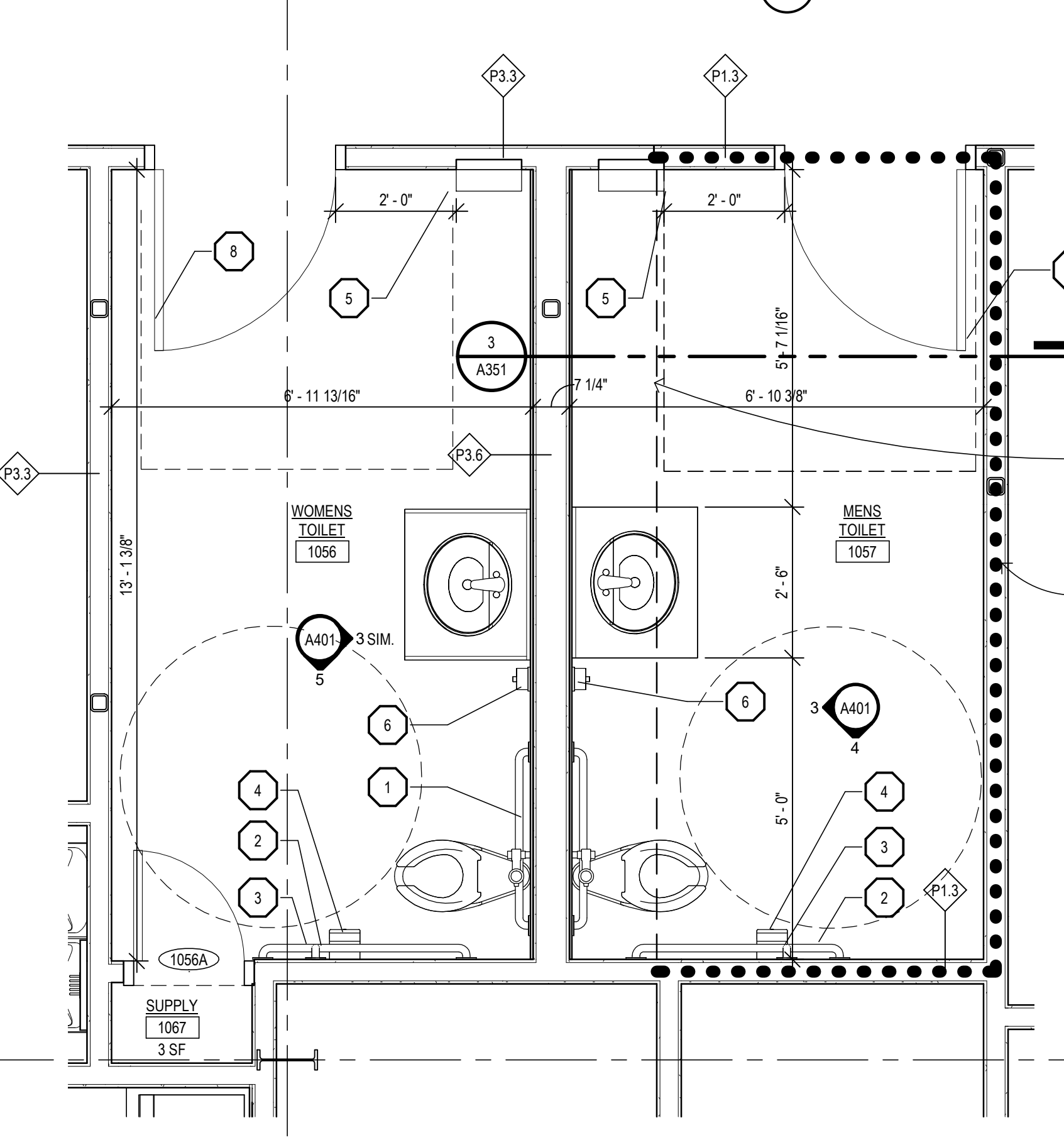
**A401**

A/E PROJECT NO.  
**2022081**

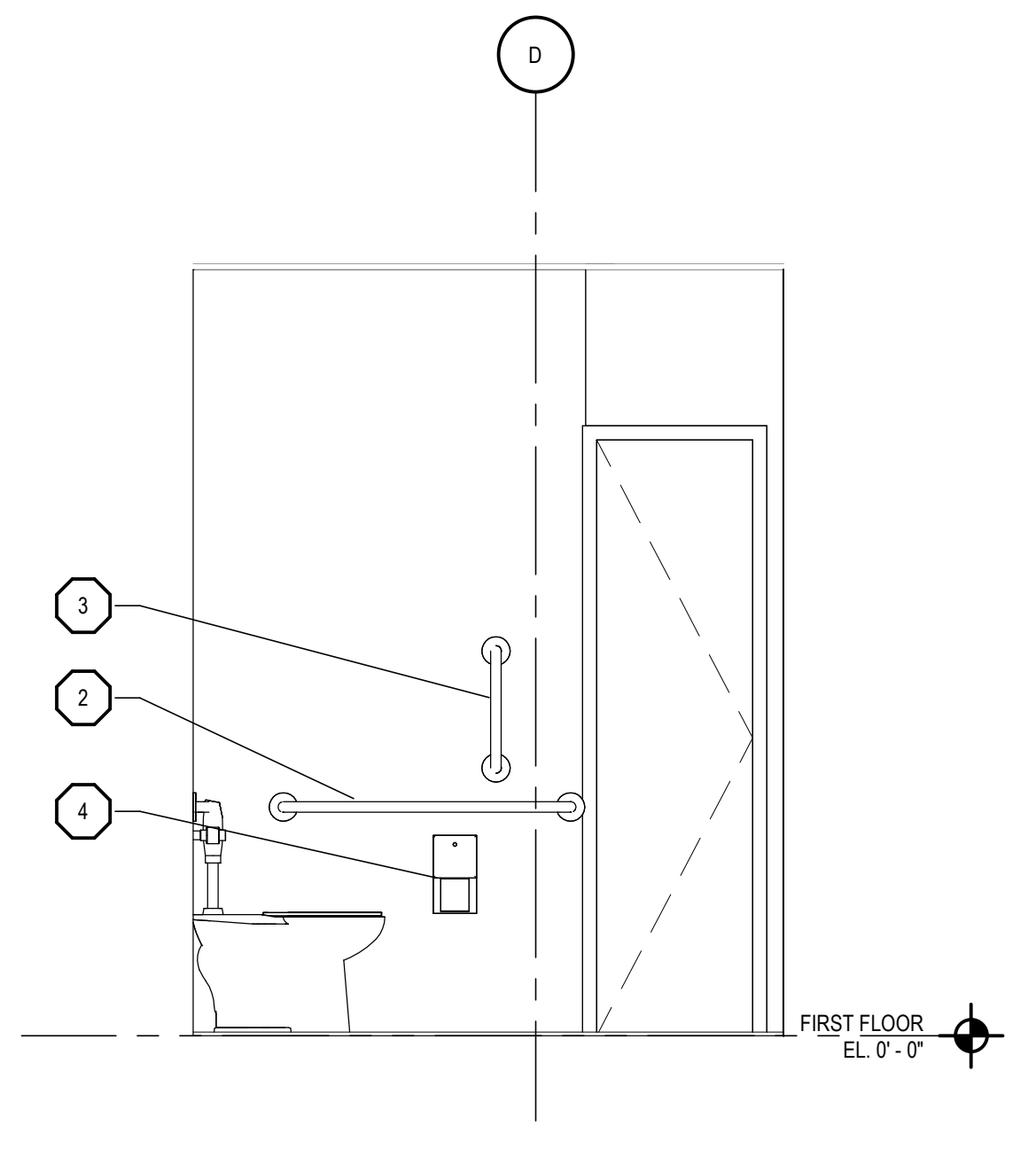
CMU PROJECT NO.  
**655113**



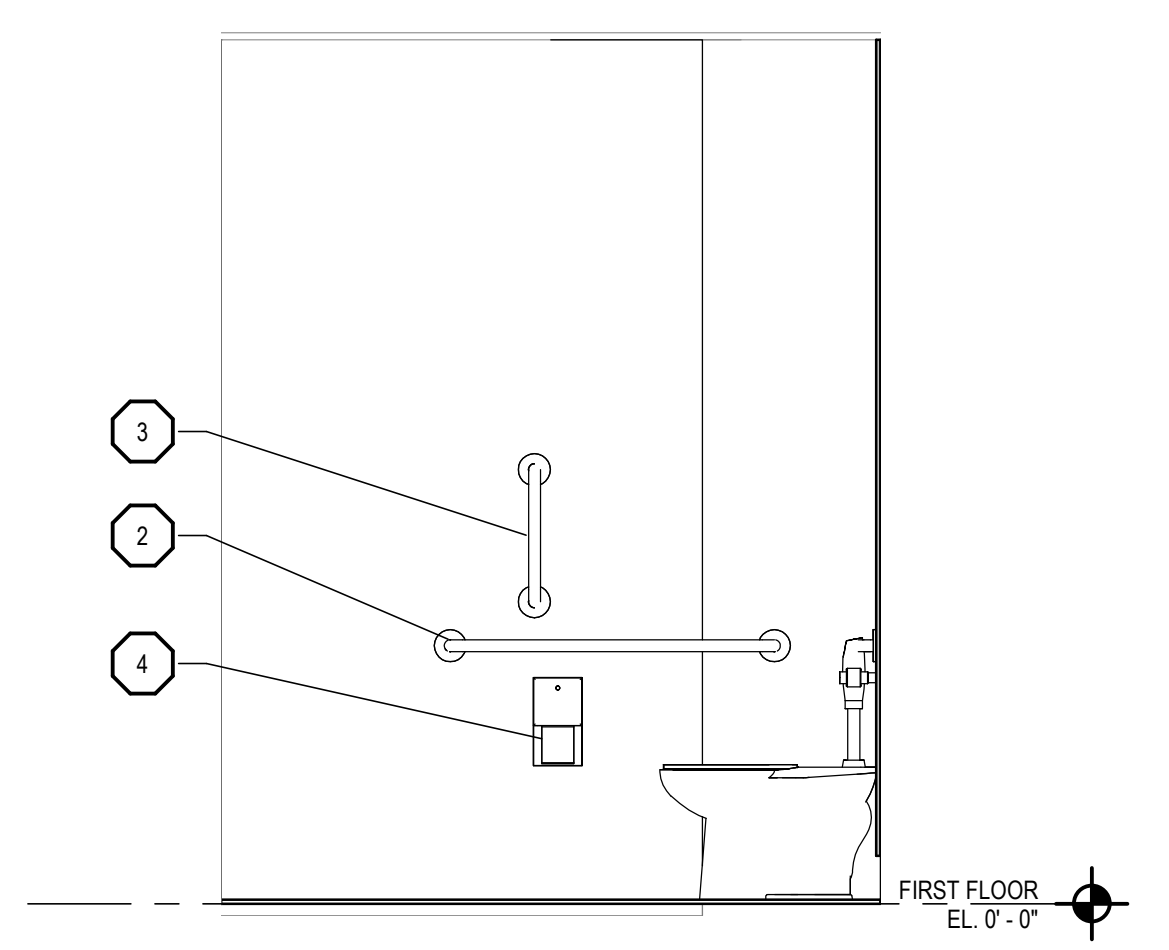
**2 ENLARGED TOILET ROOMS**  
 A111 SCALE: 1/2" = 1'-0"



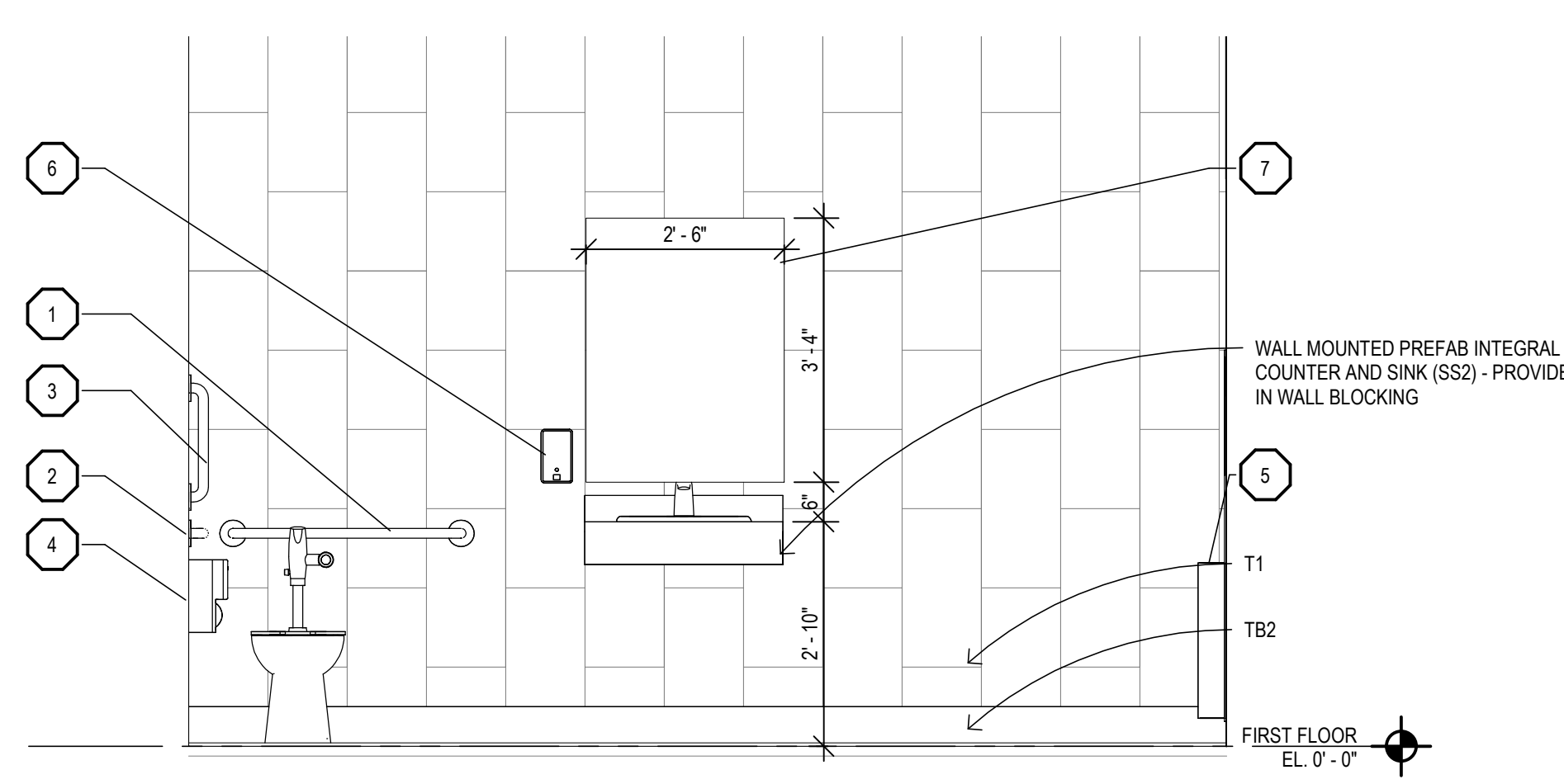
**1 ENLARGED TOILET ROOMS**  
 A111 SCALE: 1/2" = 1'-0"



**5 TOILET ROOM ELEVATION**  
 A112 SCALE: 1/2" = 1'-0"



**4 TOILET ROOM ELEVATION**  
 A401 SCALE: 1/2" = 1'-0"



**3 TOILET ROOM ELEVATION**  
 A401 SCALE: 1/2" = 1'-0"

4/27/2023 1:33:28 PM | PROJ. NO. 2022081



DRAWING SET INFO

Table with 2 columns: Description and Status. Includes items like 100% SCHEMATIC DESIGN REVIEW, 50% DESIGN DEVELOPMENT REVIEW, 95% DESIGN DEVELOPMENT REVIEW, etc.

ADDENDUM/BULLETIN REVISIONS

Table with 2 columns: DATE and DESCRIPTION. Includes a section for REVISIONS.

SCALE 1/8" = 1'-0"

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APPROVED BY: SC

SHEET NO.

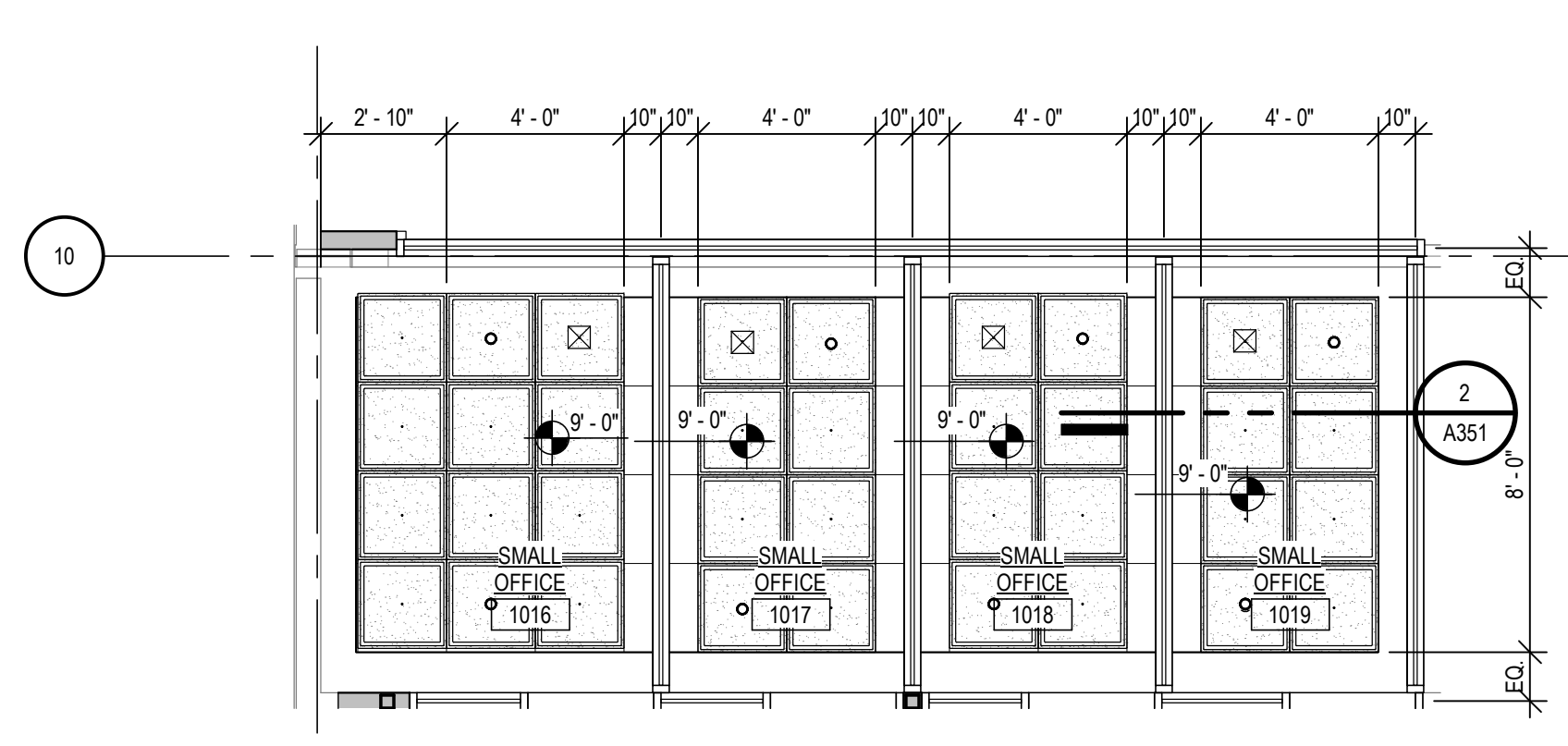
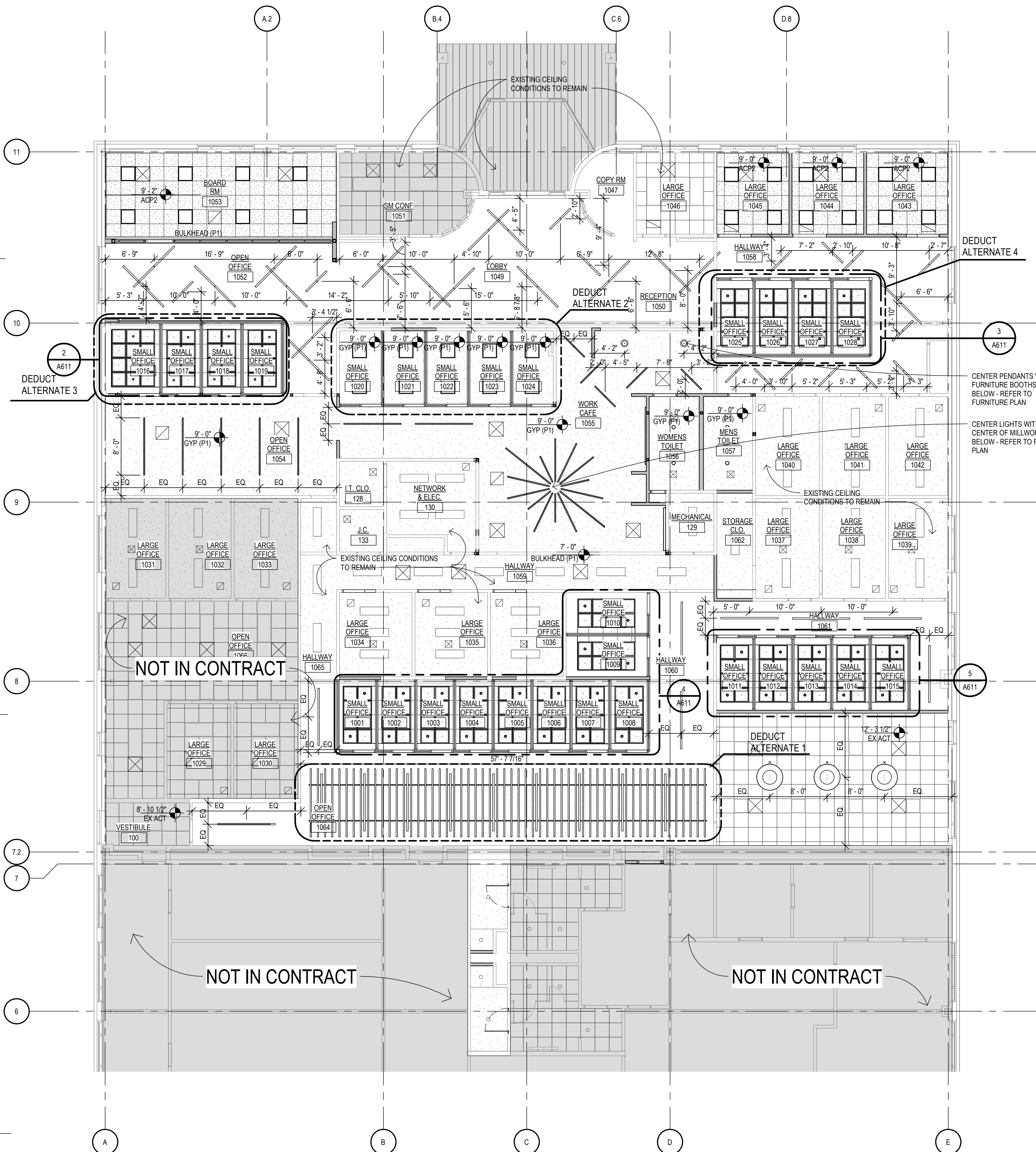
A611  
A/E PROJECT NO. 2022081  
CMU PROJECT NO. 655113

REFLECTED CEILING PLAN LEGEND

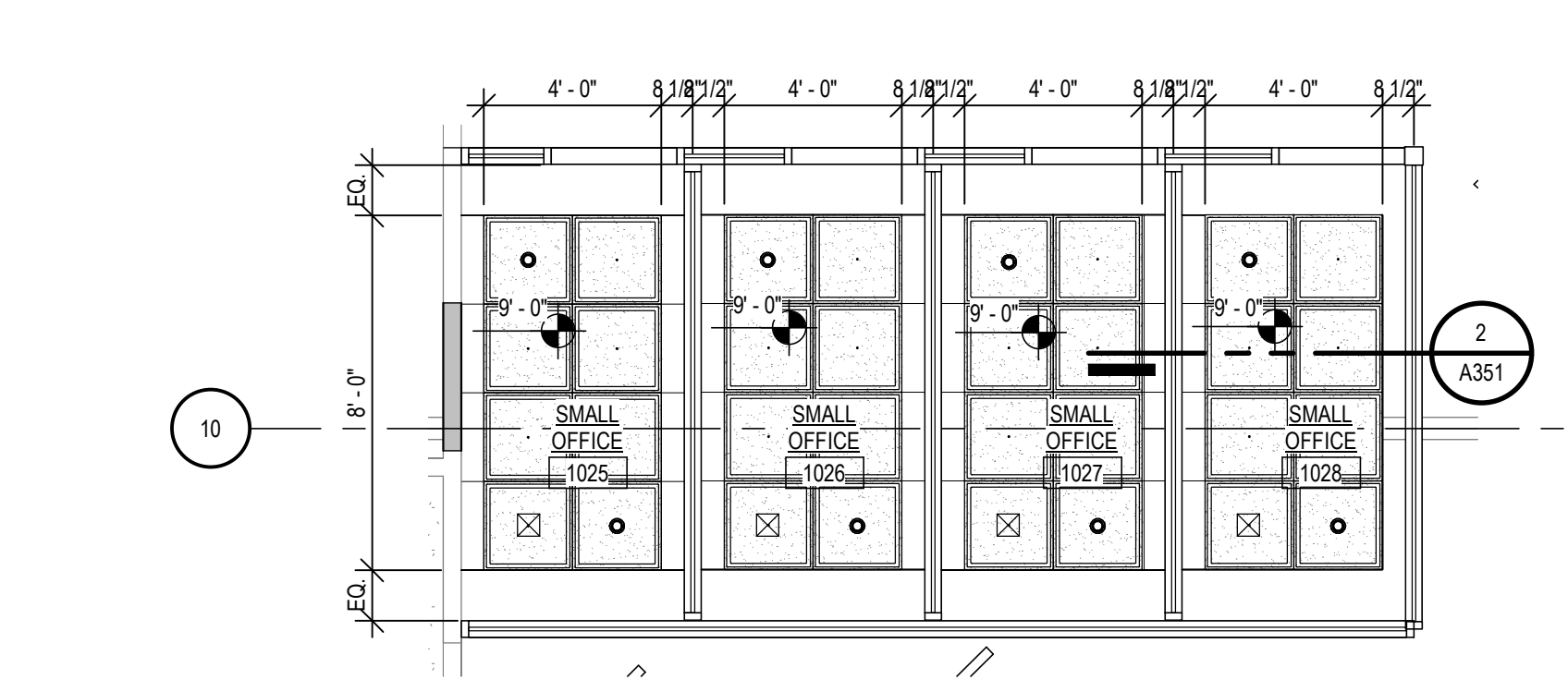
- 9'-0" CEILING HEIGHT
GYP
SHADED AREA INDICATES EXISTING CONSTRUCTION TO REMAIN (NIC)
EXPOSED STRUCTURE
EXISTING 2'X2' LAY-IN ACOUSTICAL CEILING PANELS IN 'T' GRID SUSPENSION SYSTEM TO REMAIN
ACT-1 2'X2' LAY-IN ACOUSTICAL CEILING PANELS
EXISTING GYPSUM BOARD CEILING TO REMAIN
SUPPLY AIR DIFFUSER
RETURN AIR GRILLE
AIR EXHAUST
EXISTING SURFACE MOUNTED LIGHT FIXTURE
SURFACE MOUNTED DOWNLIGHT - REFER TO ELECTRICAL DOCUMENTS
LINEAR PENDANT MOUNTED FIXTURE - REFER TO ELECTRICAL DOCUMENTS FOR LENGTH AND MOUNTING HEIGHTS
RECESSED LIGHT FIXTURE IN ACT CEILING SYSTEM - REFER TO ELECTRICAL DOCUMENTS
PENDANT MOUNTED LIGHT - MOUNT AT 10'-0" AFF - REFER TO ELECTRICAL DOCUMENTS
EMERGENCY LIGHT DEVICE - REFER TO ELECTRICAL DOCUMENTS
EXIT SIGN - REFER TO ELECTRICAL DOCUMENTS
SPRINKLER HEAD - REFER TO FIRE PROTECTION DOCUMENTS
OCCUPANCY SENSOR - REFER TO ELECTRICAL DOCUMENTS (E = EXISTING)
FIRE ALARM AUDIO / VISUAL APPLIANCE - REFER TO FIRE ALARM DOCUMENTS (E = EXISTING)
FIRE ALARM AUDIO APPLIANCE - REFER TO FIRE ALARM DOCUMENTS (E = EXISTING)
FIRE ALARM VISUAL APPLIANCE - REFER TO FIRE ALARM DOCUMENTS (E = EXISTING)
SMOKE DETECTOR - REFER TO FIRE PROTECTION DOCUMENTS (E = EXISTING)
SPEAKER - REFER TO ELECTRICAL DOCUMENTS (E = EXISTING)
HEAT SENSOR - REFER TO MEP DOCUMENTS (E = EXISTING)
J-BOX - REFER TO ELECTRICAL DOCUMENTS (E = EXISTING)
CEILING MOUNTED PROJECTOR (E = EXISTING)
WIRELESS APPLICATION PROTOCOL (E = EXISTING)
ANTENNA (E = EXISTING)
ACCESS PANEL
CONTROL JOINT (CJ)

GENERAL REFLECTED CEILING PLAN NOTES

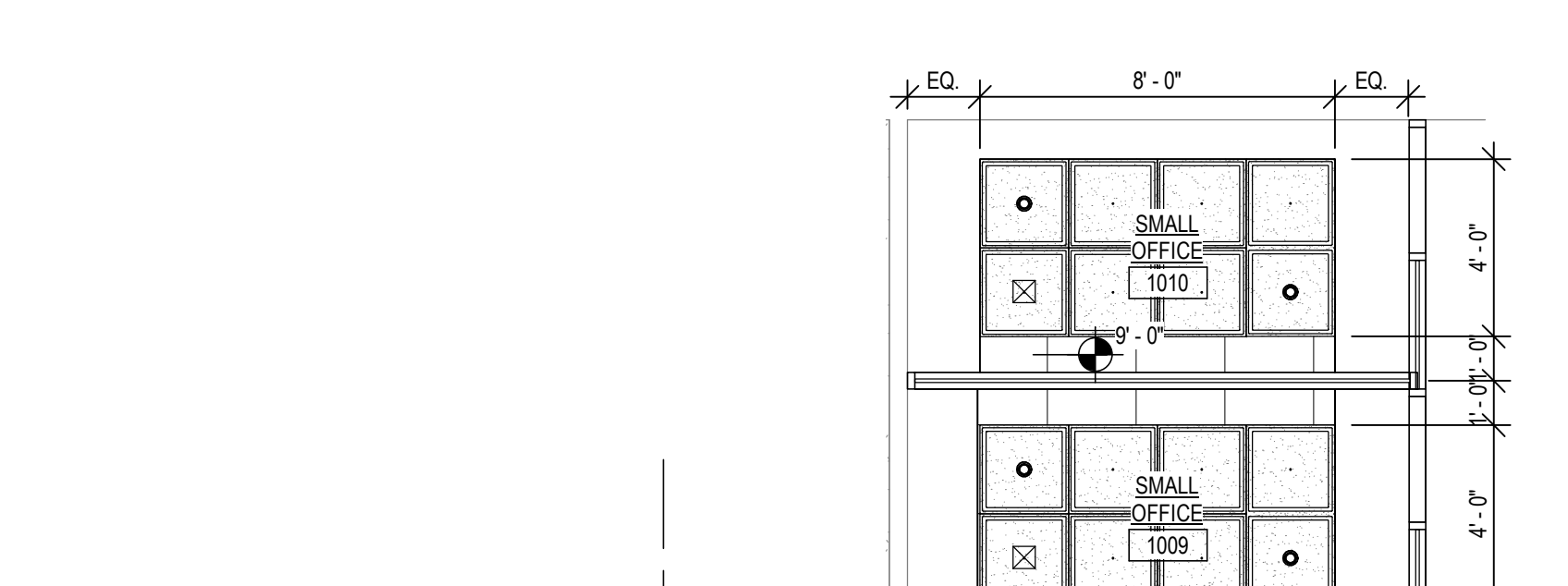
- 1. THIS PLAN IS INTENDED TO SHOW GENERAL COORDINATION OF OVERHEAD WORK. REFER TO STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL, LOW VOLTAGE, FIRE ALARM, AND SIGNAGE DRAWINGS FOR FURTHER INFORMATION.
2. ALL CEILING HEIGHTS INDICATED ARE FROM TOP OF FINISHED FLOOR UNLESS OTHERWISE NOTED.
3. REFER TO THE ELECTRICAL DOCUMENTS FOR EXACT FIXTURE TYPES AND MOUNTING HEIGHTS FOR WALL FIXTURES.
4. REFER TO MECHANICAL DOCUMENTS FOR EXACT GRILLE, DIFFUSER AND RELATED EQUIPMENT TYPES.
5. REFER TO MECHANICAL AND FIRE PROTECTION DOCUMENTS FOR FIRE PROTECTION INFORMATION.
6. CENTER ACOUSTICAL CEILING PANELS AND GRIDS IN ROOM UNLESS NOTED OTHERWISE. ADJUST CENTER LIGHT TAYLAYOUT AS REQUIRED WHEN CUTS AGAINST THE WALL ARE LESS THAN 6".
7. ALL CEILING PENETRATIONS (I.E. FIRE PROTECTION HEADS, FIRE ALARM DEVICES, LIGHT FIXTURES, SPEAKERS, ETC.) MUST BE CENTERED IN ACOUSTICAL CEILING PANELS.
8. PAINT EXISTING HARD CEILING UNDER EXISTING MEZZANINE (M) ALL SOFFITS AND BULKHEADS P1 UNLESS NOTED OTHERWISE.
9. COORDINATE LOCATIONS OF CEILING ACCESS PANELS IN FIELD WITH ARCHITECT IF NOT SHOWN ON DRAWINGS OR REQUIRED BY M.E.P. CONTRACTORS.
10. CONTRACTOR TO VERIFY ABOVE CEILING CONDITIONS AND NOTIFY ARCHITECT IF INTERFERENCE OCCURS WITH RECESSED LIGHT FIXTURES.
11. COORDINATE ALL DEVICE LOCATIONS WITH EXISTING CONDITIONS AND WITH PROJECT DESIGN.
12. ALL LIFE SAFETY DEVICE LOCATIONS ARE TO BE REVIEWED WITH OWNER'S REPRESENTATIVE FOR DESIGN INTENT. REFER TO ARCHITECTURAL DOCUMENTS FOR FINAL LOCATIONS IF SHOWN. LOCAL AND / OR STATE AUTHORITIES HAVE FINAL DIRECTION. CONTRACTOR TO PROVIDE ADDITIONAL LIFE SAFETY DEVICES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
13. PROVIDE LATERAL BRACING FOR SUSPENDED CEILING SYSTEMS.
14. SECURE ALL ELECTRICAL DEVICES, INCLUDING LIGHT FIXTURES, J-BOXES, TRACK, ETC. TO FRAMING IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS.
15. ARCHITECTURAL DRAWINGS DETERMINE THE LOCATION OF ALL MEP CEILING DEVICES AND SUPERSEDE WHAT IS INDICATED FOR LOCATION ON MEP DOCUMENTS. NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES ON QUANTITY OR LOCATIONS.
16. CONTRACTOR SHALL COORDINATE AND PROVIDE ADEQUATE METAL BACKING/BLOCKING/BRACING FOR LIGHT FIXTURES AND MISCELLANEOUS ITEMS THAT ARE ATTACHED TO THE CEILING PRIOR TO CLOSING OFF THE WALLS AND CEILINGS.
17. SPRINKLER SYSTEMS TO MEET NFPA 13 (REFER TO CODE ANALYSIS) AND ALL APPLICABLE LOCAL REQUIREMENTS. SUBMIT ALL ANY CHANGES TO THE EXISTING FIRE SPRINKLER SYSTEM TO THE APPROPRIATE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO COMMENCING WITH THE WORK. CONTRACTOR TO PROVIDE ALL REQUIRED TESTING TO SECURE APPROVAL OF COMPLETED SYSTEM.
18. ALL CEILINGS ARE REQUIRED TO MEET FLAME SPREAD RATINGS IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.
19. PAINT ALL CEILING GRILLES, REGISTERS, DIFFUSERS & ACCESS PANELS TO MATCH ADJACENT CEILING FINISHES WHERE FINISHES ARE NOT IDENTIFIED ON THE MECHANICAL DOCUMENTS.
20. ALL CEILINGS TO BE PAINTED 58" GYPSUM BOARD, UNLESS OTHERWISE NOTED. SMITH ARCHITECT.
21. PROVIDE RETURN AIR GRILLES WITH SOUND TRAPS WHERE RETURN IS NOT IN LIGHT FIXTURE.



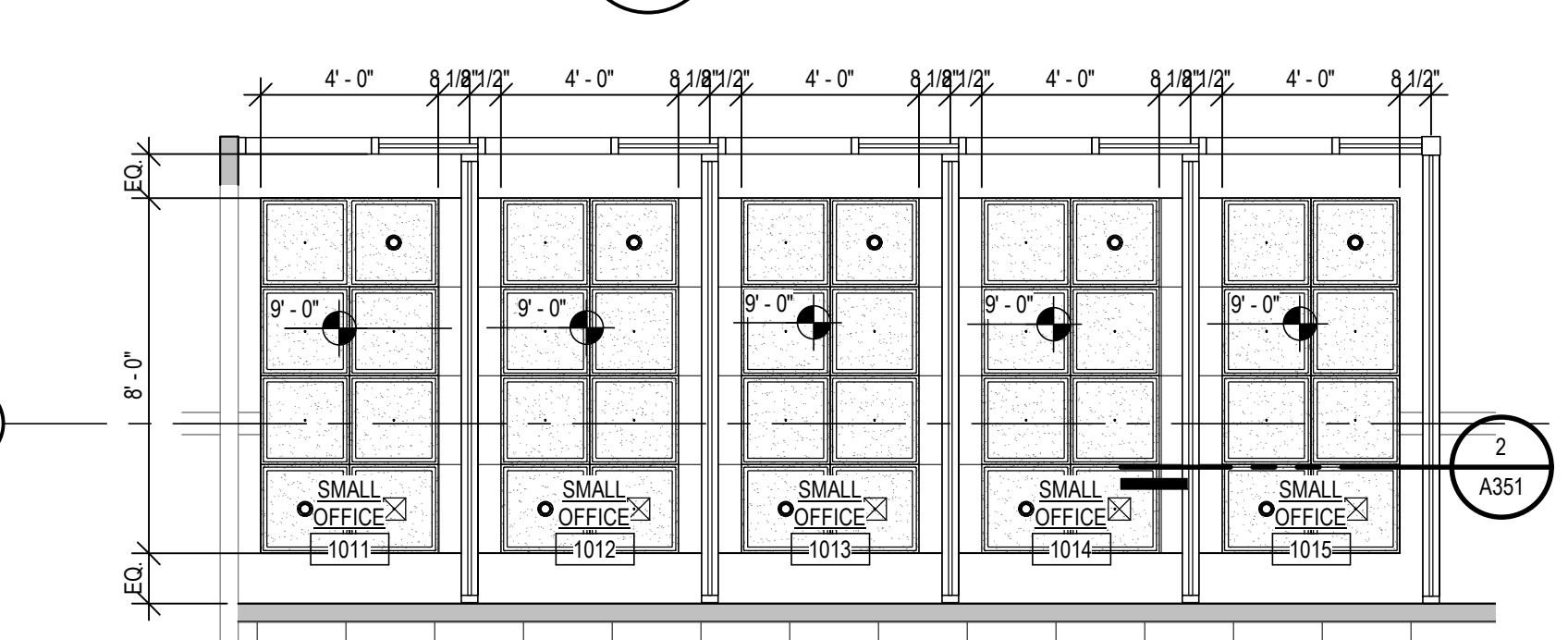
2 ENLARGED REFLECTED CEILING PLAN  
A611 SCALE: 1/4" = 1'-0"



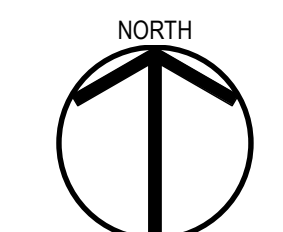
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A611 SCALE: 1/4" = 1'-0"



4 ENLARGED REFLECTED CEILING PLAN  
A611 SCALE: 1/4" = 1'-0"

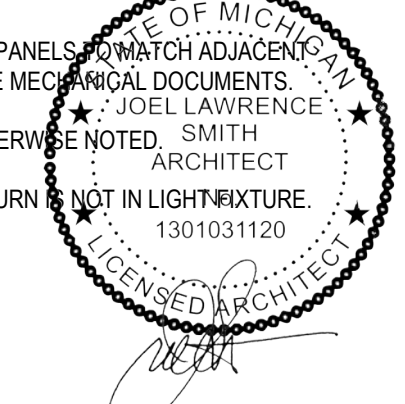


5 ENLARGED REFLECTED CEILING PLAN  
A611 SCALE: 1/4" = 1'-0"



1 REFLECTED CEILING PLAN  
A611 SCALE: 1/8" = 1'-0"

NOTE: PATCH, REPAIR, AND PAINT ALL EXISTING GYPSUM BOARD TO REMAIN AT UNDERSIDE OF MEZZANINE TO BE IN LIKE NEW CONDITION.





DRAWING SET INFO

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100% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
90% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
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BID AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
RECORD DRAWINGS - AS BUILT SET	<input type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

ADDENDUM/BULLETIN REVISIONS

Δ	DATE	DESCRIPTION

SCALE: 3/16" = 1'-0"

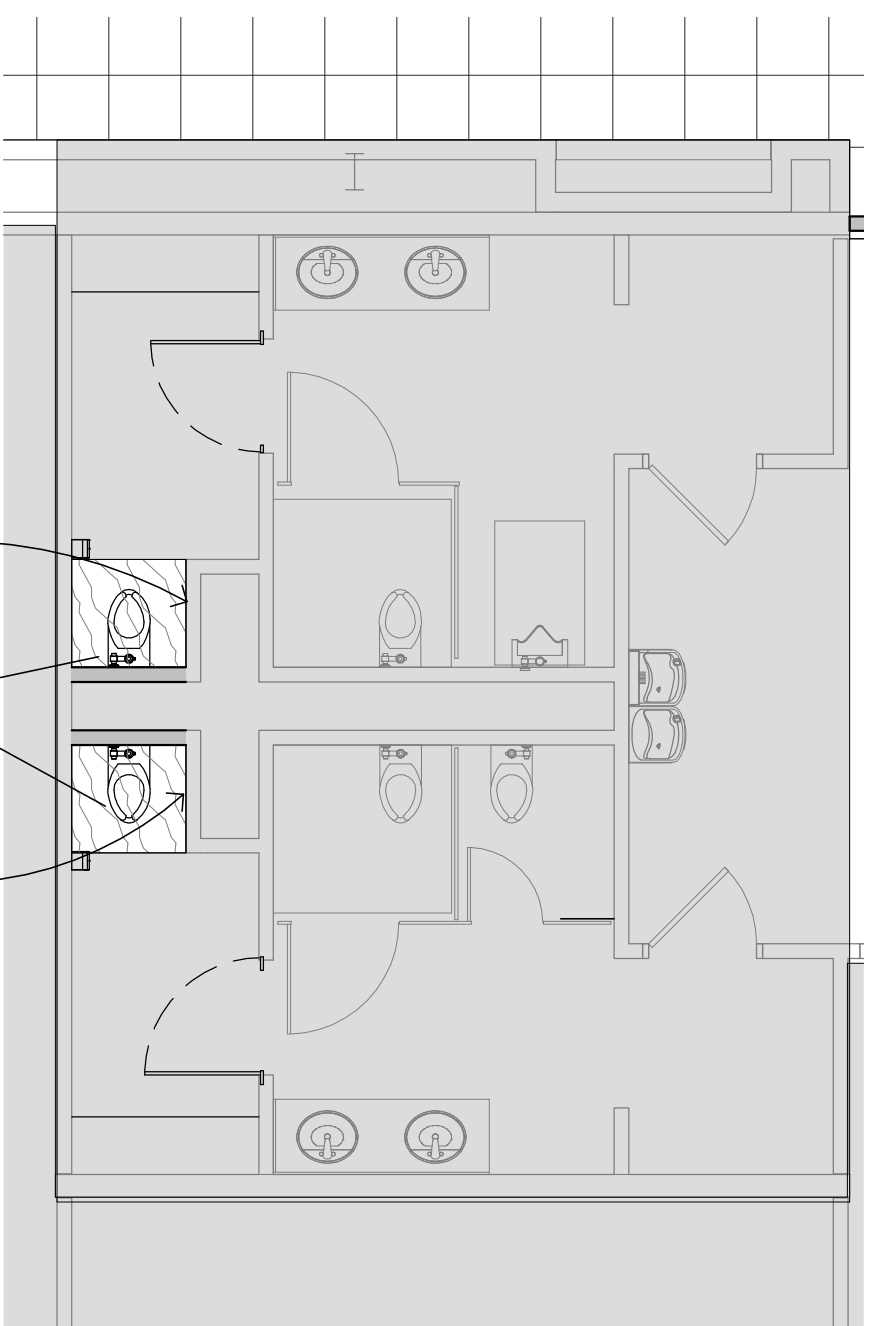
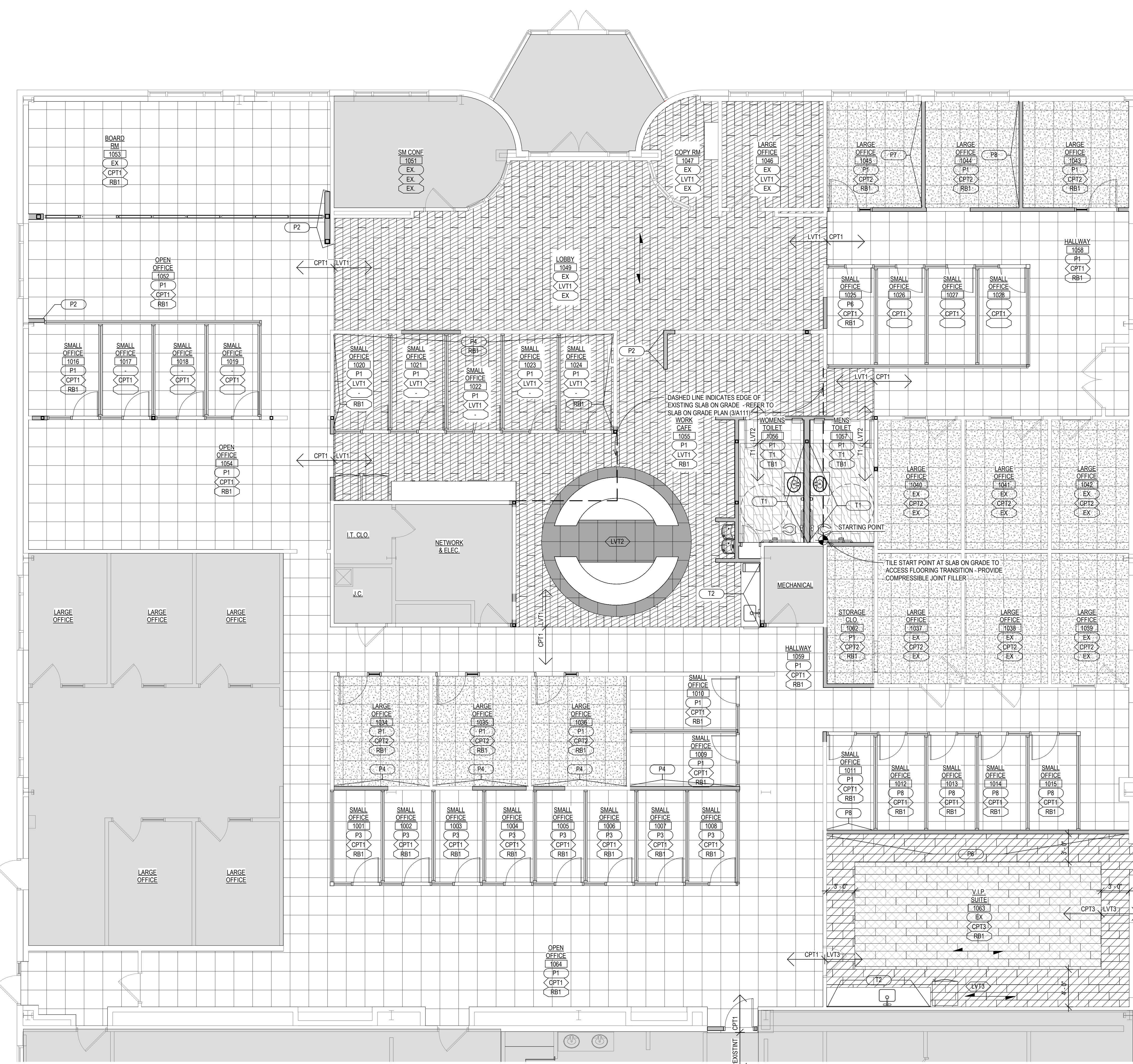
DRAWN BY: KT  
CHECKED BY: PH  
APPROVED BY: SC

SHEET NO. **A711**  
A/E PROJECT NO. **2022081**  
CMU PROJECT NO. **655113**

**FINISH PLAN LEGEND**

- SHADED AREA INDICATES EXISTING CONSTRUCTION TO REMAIN (NIC)
- LVT1
- LVT2
- LVT3
- CPT1
- CPT2
- CPT3
- T1
- GENERAL WALL FINISH
- GENERAL FLOOR FINISH
- GENERAL WALL BASE FINISH
- GENERAL CEILING FINISH
- RUNNING DIRECTION OF MATERIAL
- STARTING POINT

NOTE: WHERE EXISTING WOOD BASE IS TO REMAIN, PAINT TO MATCH EXISTING PRIOR TO REINSTALLATION



1 2 3 4 5 6 7 8 9 10

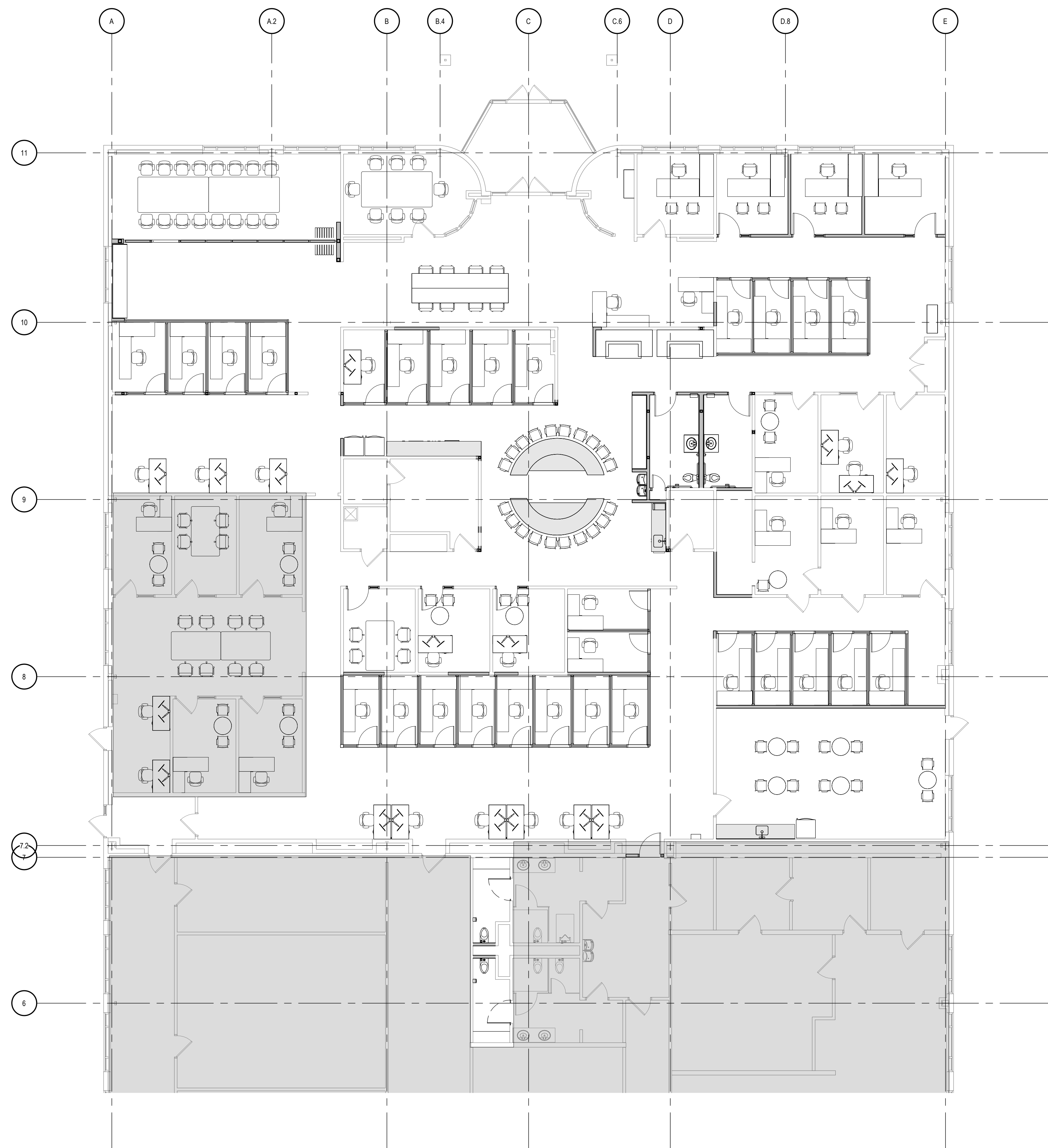
H  
G  
F  
E  
D  
C  
B  
A

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NORTH  
**2 ENLARGED FLOOR FINISH PLAN**  
A711 SCALE: 3/16" = 1'-0"

NORTH  
**1 ENLARGED FLOOR FINISH PLAN**  
A711 SCALE: 3/16" = 1'-0"





**1 FURNITURE PLAN**  
**A712** SCALE: 1/8" = 1'-0"

NOTE:  
 FURNITURE SHOWN IS FOR REFERENCE ONLY.  
 FURNITURE TO BE PROVIDED BY THE TENANTS SUPPLIER.  
 MILLWORK SHOWN SHADED.

**DRAWING SET INFO**

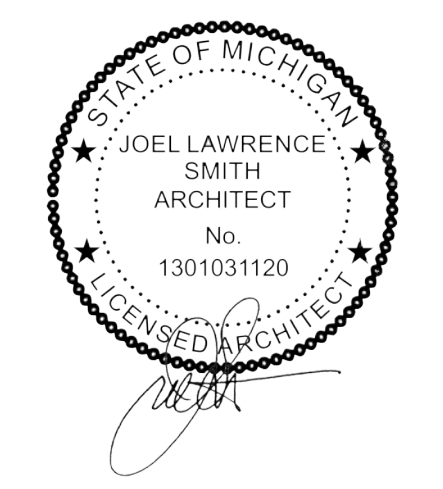
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**ADDENDUM/BULLETIN REVISIONS**

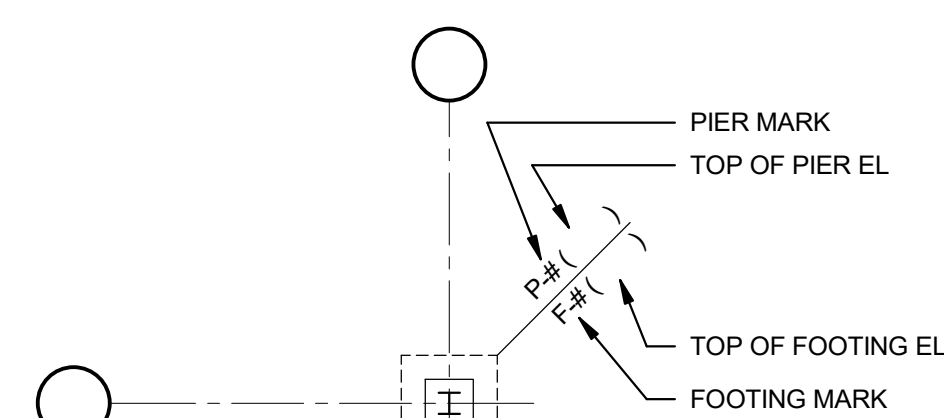
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 APPROVED BY: SC

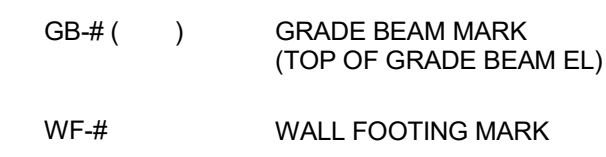
SHEET NO.  
**A712**  
 A/E PROJECT NO.  
**2022081**  
 CMU PROJECT NO.  
**655113**



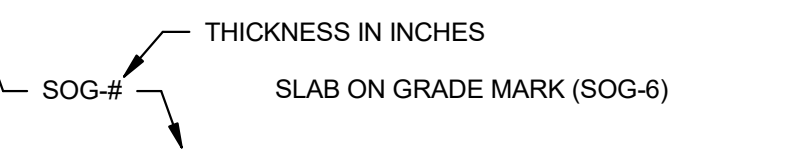
FOUNDATION PLAN SYMBOLS AND DESIGNATIONS



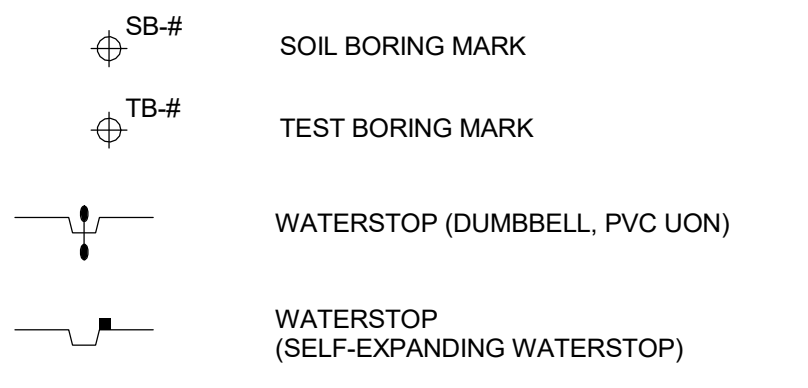
FOUNDATION WALL DESIGNATIONS



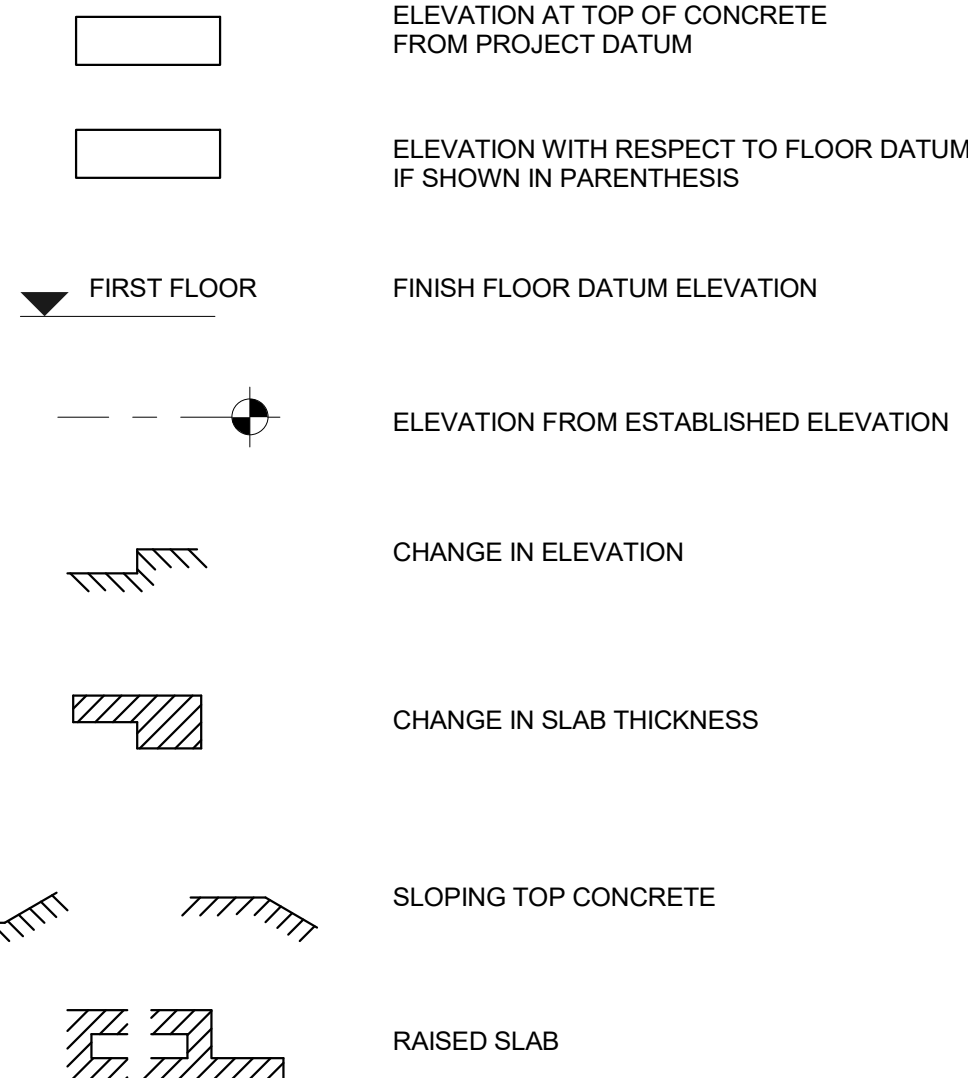
SLAB ON GRADE SYMBOLS AND DESIGNATIONS



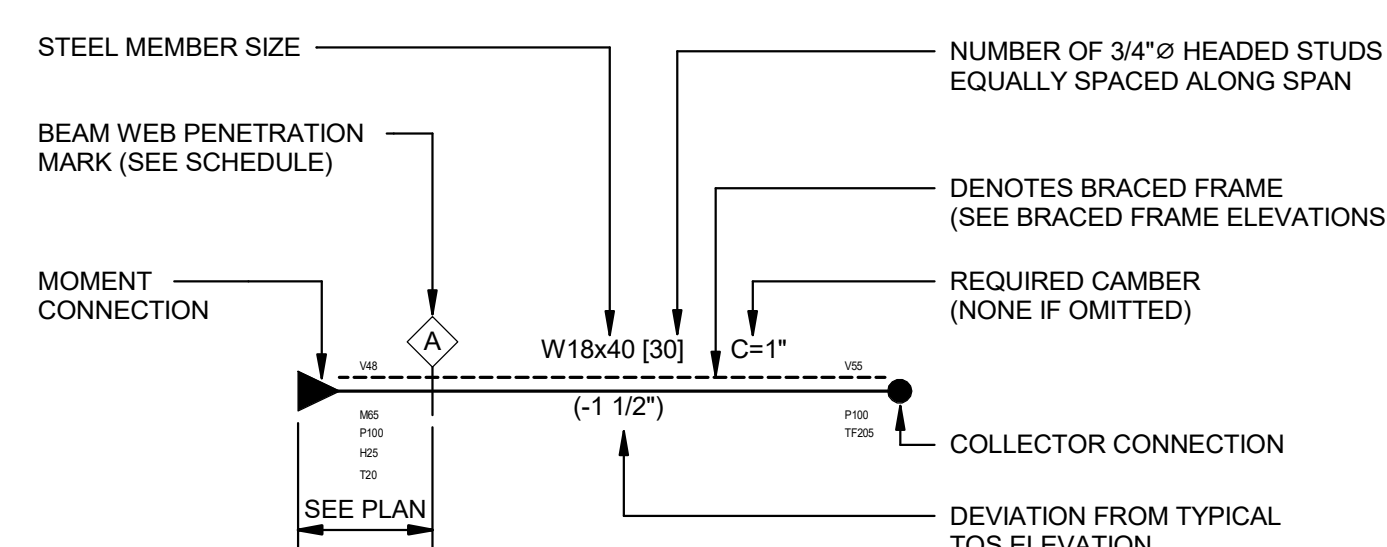
MISCELLANEOUS SYMBOLS



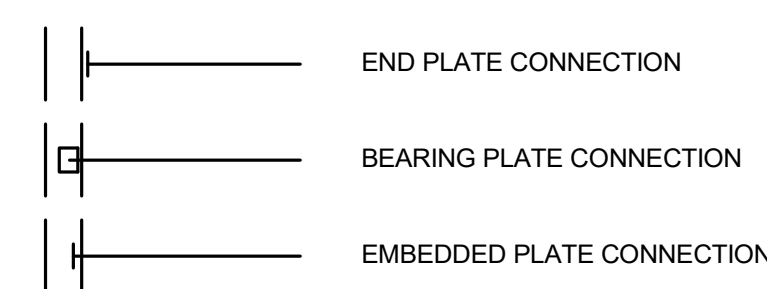
ELEVATION SYMBOLS



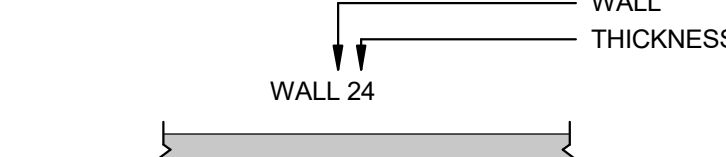
STEEL BEAM DESIGNATIONS



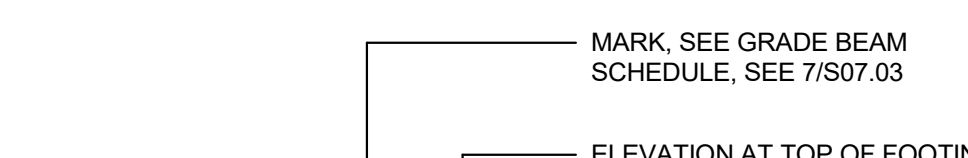
- List of designations: H# FACTORED BEAM DESIGN HORIZONTAL FORCE (KIPS), M# FACTORED BEAM DESIGN END MOMENT (FOOT-KIPS), V# FACTORED BEAM DESIGN SHEAR (KIPS), P# FACTORED BEAM DESIGN AXIAL (KIPS), T# FACTORED BEAM DESIGN TORSIONAL MOMENT (FOOT-KIPS), TF# FACTORED AXIAL FORCE TRANSFERRED THROUGH THE CONNECTION JOINT (KIPS)



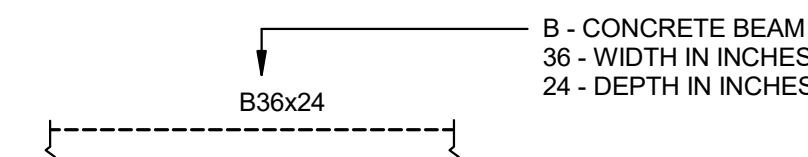
CONCRETE WALL/CURB



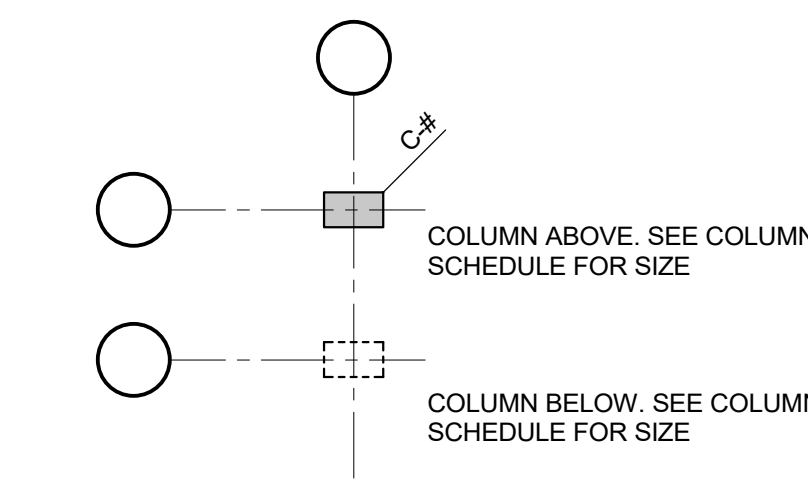
GRADE BEAM/CONT FOOTING



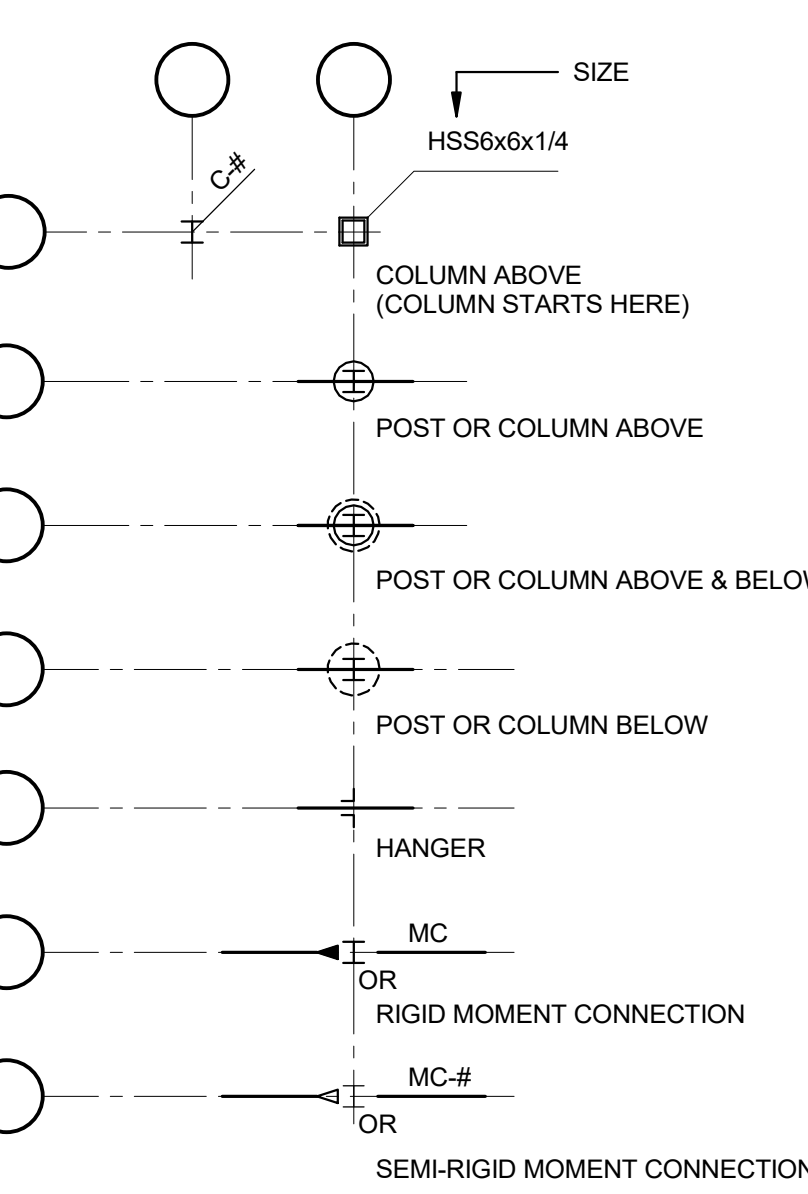
CONCRETE BEAM OR GIRDER



CONCRETE COLUMN



STEEL COLUMN



COLD FORMED METAL FRAMING NOTES

- Notes for Cold Formed Metal Framing (CFMF) including design, materials, and construction requirements.

EXISTING CONSTRUCTION

- Notes for existing construction including field verification, shoring, and protection of existing structures.

ERECTOR NOTES

- Notes for the erector including final condition, scheduling, and erection sequence.

STRUCTURAL STEEL BOLTING

- Notes for structural steel bolting including bolt specifications and connection requirements.

STRUCTURAL STEEL WELDING

- Notes for structural steel welding including weld types, sizes, and inspection requirements.

SHORING AND BRACING

- Notes for shoring and bracing including temporary support, safety, and erection procedures.

POST-INSTALLED ANCHORS IN CONCRETE

- Notes for post-installed anchors including expansion anchors and adhesive anchors.

STRUCTURAL OBSERVATIONS

- Notes for structural observations including observation procedures, reporting, and safety.

SHOP DRAWINGS

- Notes for shop drawings including submission, review, and revision procedures.

GENERAL NOTES

- General notes for the drawing including code references and specific project requirements.

DESIGN CRITERIA

Table with columns for Design in accordance with CODE, CODE REFERENCE, and IBC Table 1604.5 ASCE Table 1.5-1. Includes sections for LIVE LOADS, SNOW LOADS, WIND LOADS, and FOUNDATION DESIGN.

FOUNDATION DESIGN

Table for Foundation Design showing Allowable Soil Bearing Capacity as 1,500psf (code minimum to be field verified).

GENERAL NOTES

- General notes for the drawing including code references and specific project requirements.

SPECIAL INSPECTIONS

- Notes for special inspections including inspection procedures and reporting requirements.

DESIGN CRITERIA

Table with columns for Design in accordance with CODE, CODE REFERENCE, and IBC Table 1604.5 ASCE Table 1.5-1. Includes sections for LIVE LOADS, SNOW LOADS, WIND LOADS, and FOUNDATION DESIGN.

FOUNDATION DESIGN

Table for Foundation Design showing Allowable Soil Bearing Capacity as 1,500psf (code minimum to be field verified).

DRAWING LIST

Table for Drawing List showing sheet numbers and titles: S.001 GENERAL NOTES AND SYMBOLS, S.003 SPECIAL INSPECTION, S.101 PLANS AND DETAILS.

CMU CENTRAL MICHIGAN UNIVERSITY logo and contact information. Includes address (400 Galleria Officecenter, Suite 555, Southfield, Michigan), phone (248.352.8310), fax (248.352.1821), and website (www.cmumichigan.edu). Also features 'RESURGET ENGINEERING' and 'NEUMANN SMITH' logos.



SHEET NO. S.001 A/E PROJECT NO. 23045 CMU PROJECT NO. 655113

4/24/2023 4:56:23 PM | PROJ. NO. 23045



DRAWING SET INFO

Table with 2 columns: Issue Description, Issue Date. Rows include 100% SCHEMATIC DESIGN REVIEW, 50% DESIGN DEVELOPMENT REVIEW, 95% DESIGN DEVELOPMENT REVIEW, 50% DESIGN DEVELOPMENT REVIEW, 50% CONSTRUCTION DOC. REVIEW, 95% CONSTRUCTION DOC. REVIEW, BID AND CONSTRUCTION SET, RECORD DRAWINGS - AS BUILT SET, FOR REFERENCE ONLY, STATE PLAN REVIEW.

ADDENDUM/BULLETIN REVISIONS

Table with 2 columns: DATE, DESCRIPTION. Multiple empty rows for revisions.

SCALE

Table with 2 columns: Field, Value. Rows: DRAWN BY: MDS, CHECKED BY: MDS, APPROVED BY: MDS.

SHEET NO.

S.003

A/E PROJECT NO. 23045

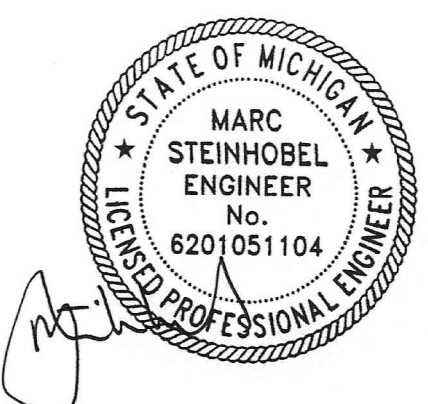
CMU PROJECT NO. 655113

SPECIAL INSPECTION NOTES

- 1. PERFORM SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2015 MICHIGAN (INTERNATIONAL) BUILDING CODE CHAPTER 17 AND AS MODIFIED IN THE MATERIAL SPECIFIC STATEMENTS OF SPECIAL INSPECTION. DESIGNATION OF RESPONSIBLE AGENT AND THEIR QUALIFICATIONS... 2. SPECIAL INSPECTOR QUALIFIED WITH DEMONSTRATED COMPETENCE DOCUMENTED BY CERTIFICATIONS FROM RECOGNIZED AGENCIES... 3. SPECIALTY ENGINEER RESPONSIBLE FOR DESIGNING ASSEMBLIES SUCH AS PRECAST CONCRETE, STEEL JOISTS, COLD FORMED FRAMING ASSEMBLIES, ETC... 4. SI SHALL PROVIDE A DAILY REPORT OF ANY DISCREPANCIES FROM THE CONTRACT DOCUMENTS FOUND ON THE SAME DAY OF THE INSPECTION... 5. SI, TA & GE SHALL BE PAID BY THE OWNER IN COMPLIANCE WITH THE MICHIGAN (INTERNATIONAL) BUILDING CODE... 6. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP... 7. REFER TO MATERIAL SPECIFIC STATEMENTS OF SPECIAL INSPECTION AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL QUALITY CONTROL, TESTING AND INSPECTIONS.

STATEMENT OF SPECIAL INSPECTIONS - STRUCTURAL STEEL

Main inspection table with columns: INSPECTION TASK, INSPECTION FREQUENCY (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, RESPONSIBLE AGENT. Includes sections for INSPECTION OF BOLTING, INSPECTION OF WELDING, and QUALITY CONTROL/ASSURANCE.



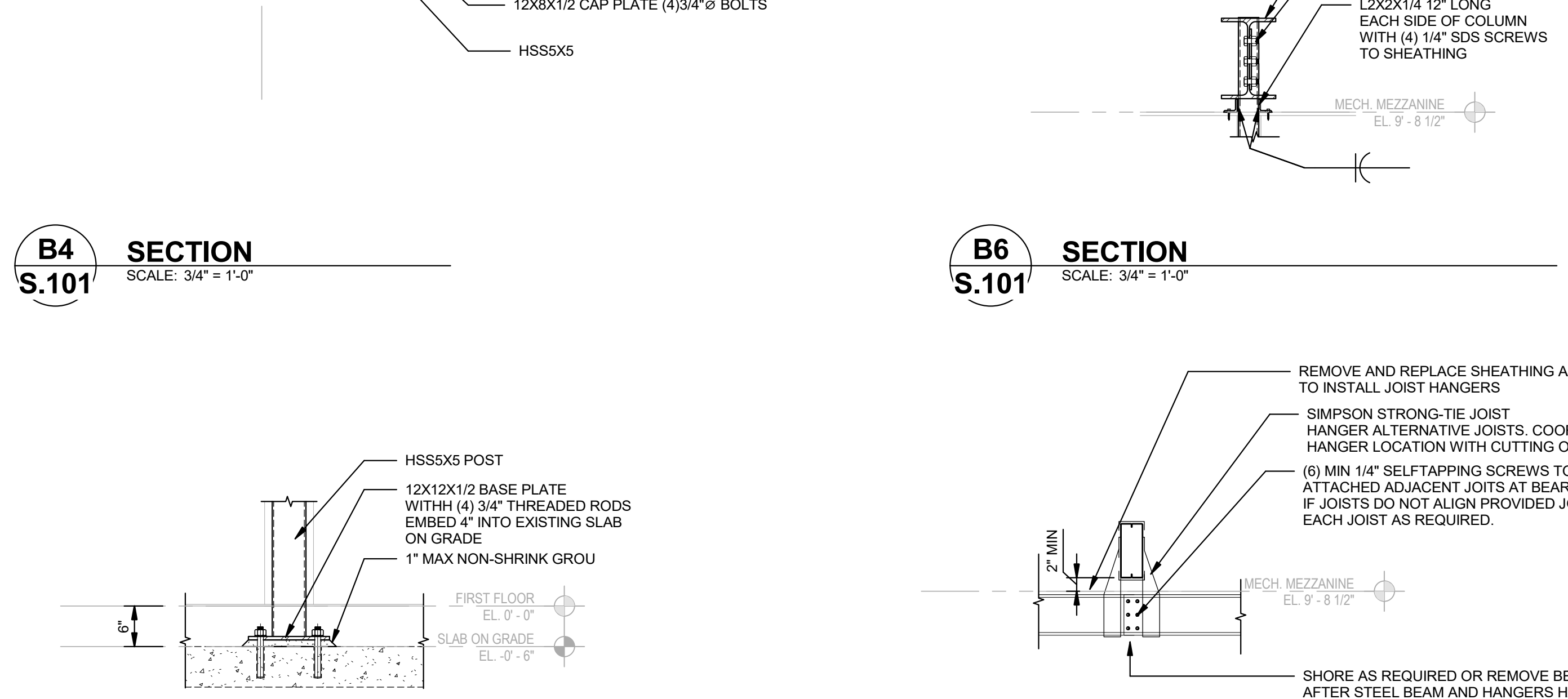
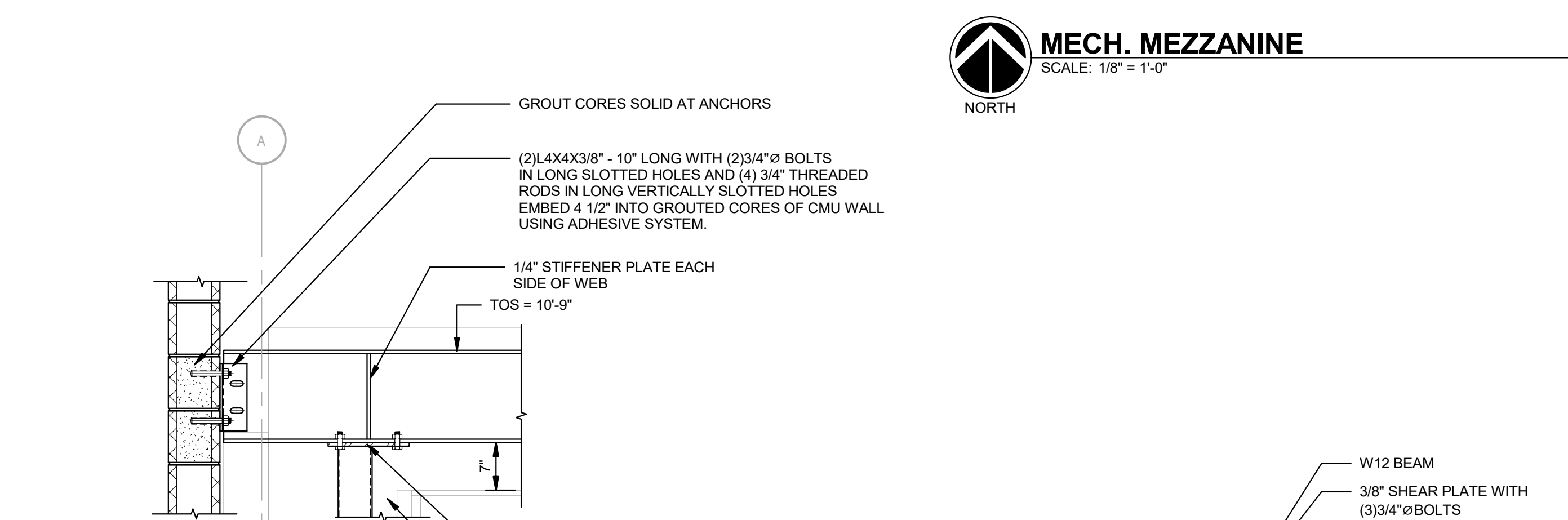
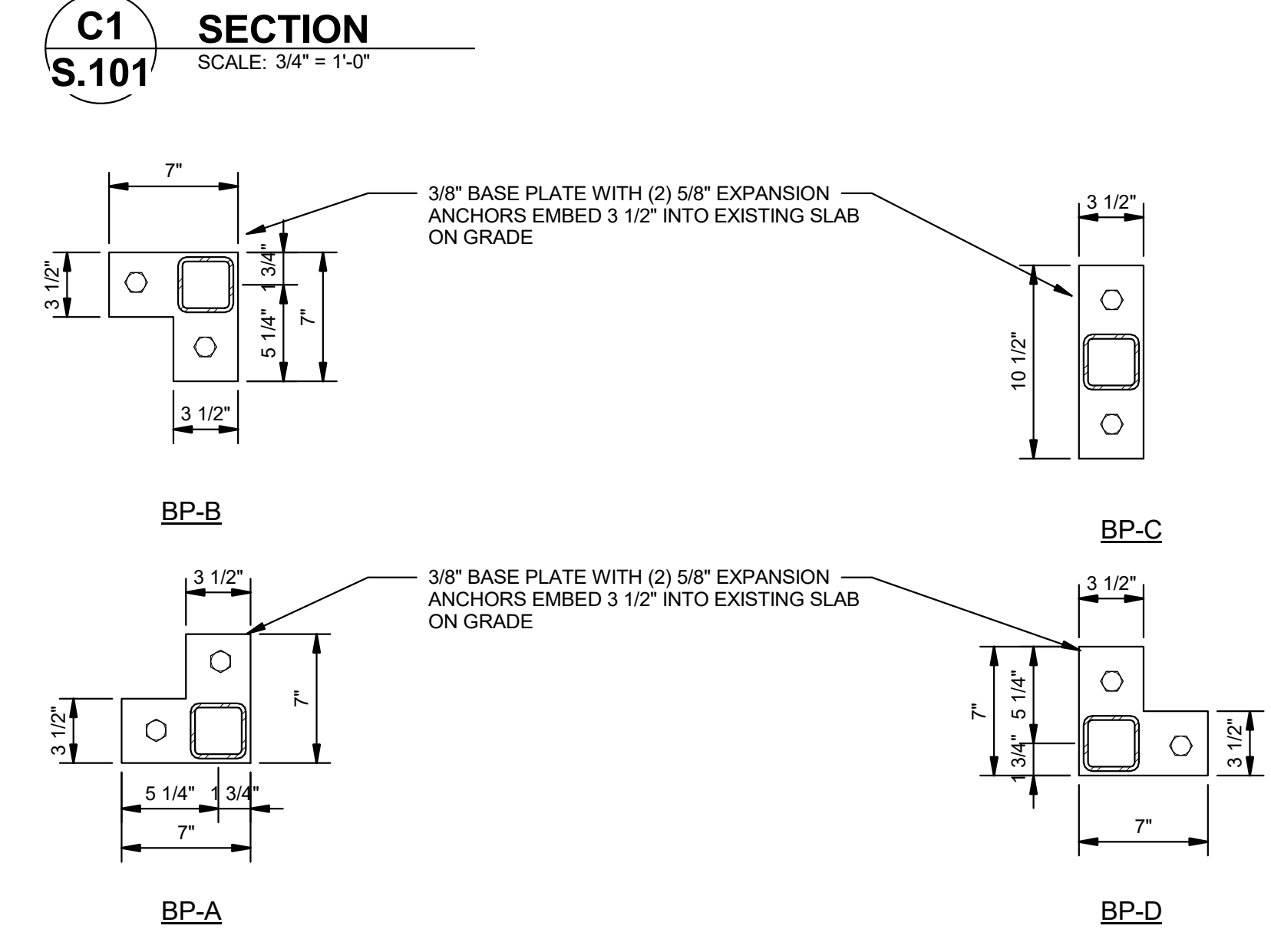
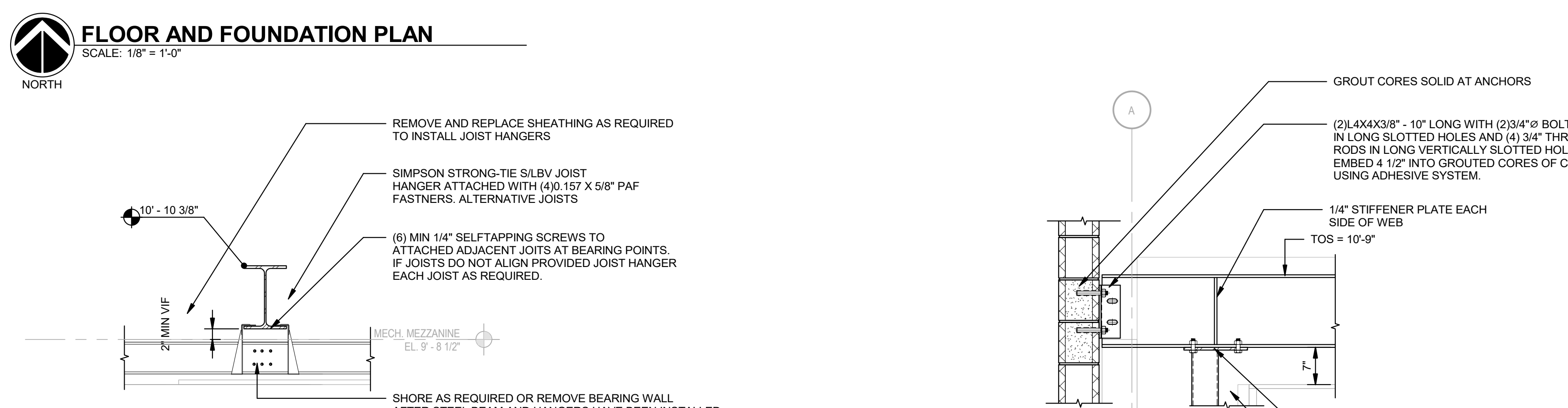
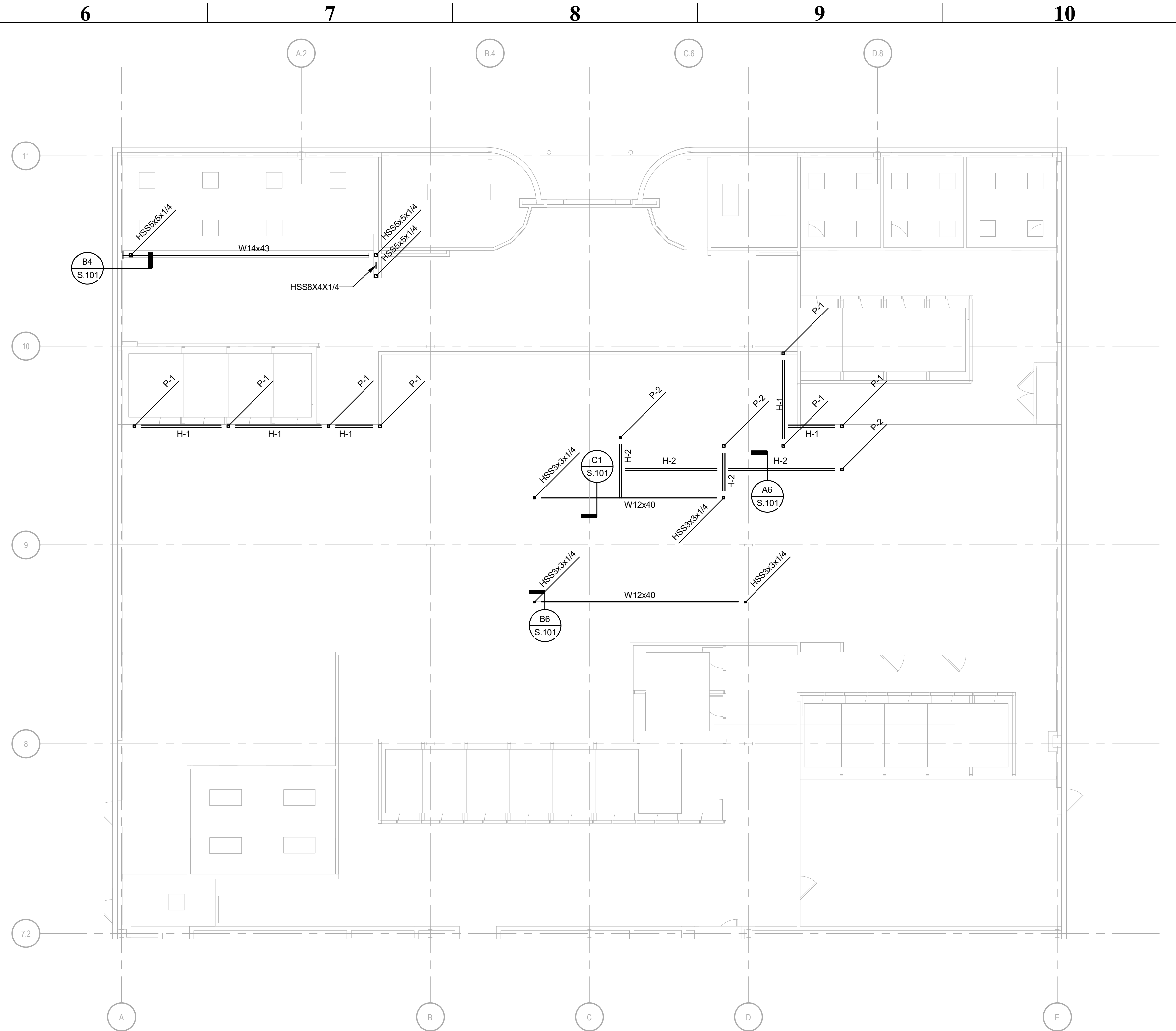
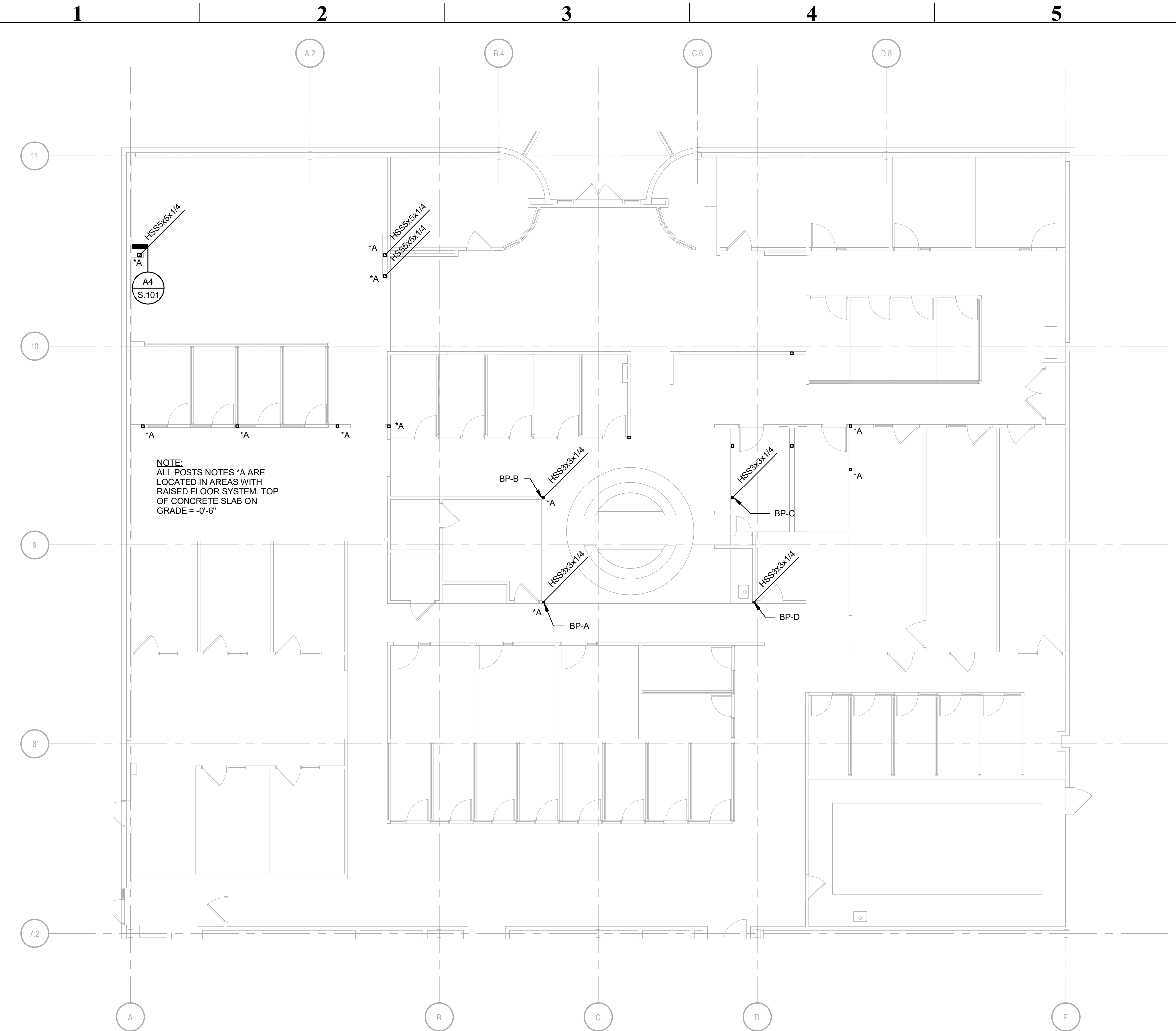
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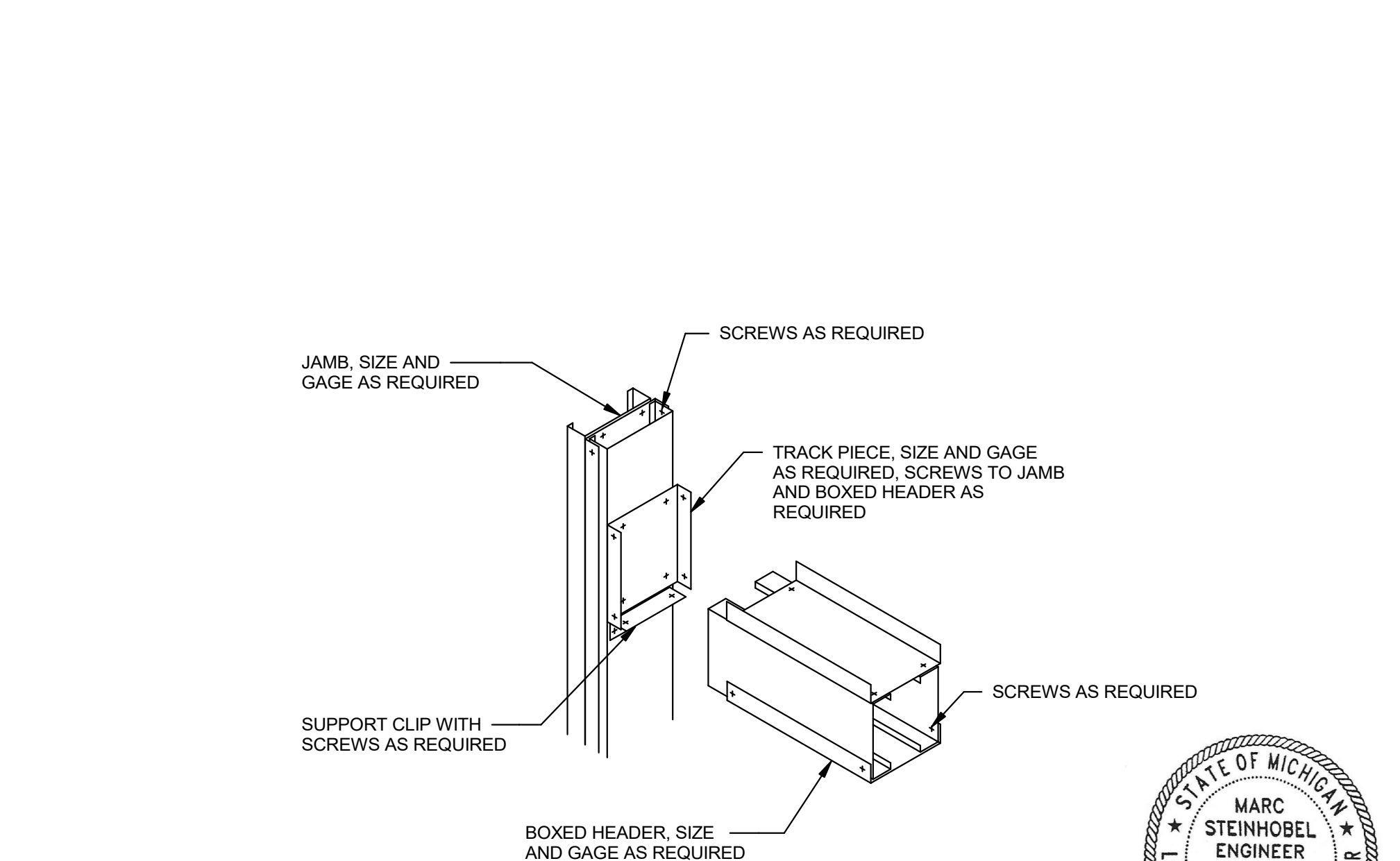
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**HEADER/BEAM SCHEDULE**

TAG	SIZE	SECTION
H-1	(2)800S162-54 + (2)362T150-54 BOX HEADER	
H-2	(2)1200S200-54 + (2)400T200-54 BOX HEADER	
P-1	(2)1362S162-54 POST	
P-2	(3)1362S200-54 POST	





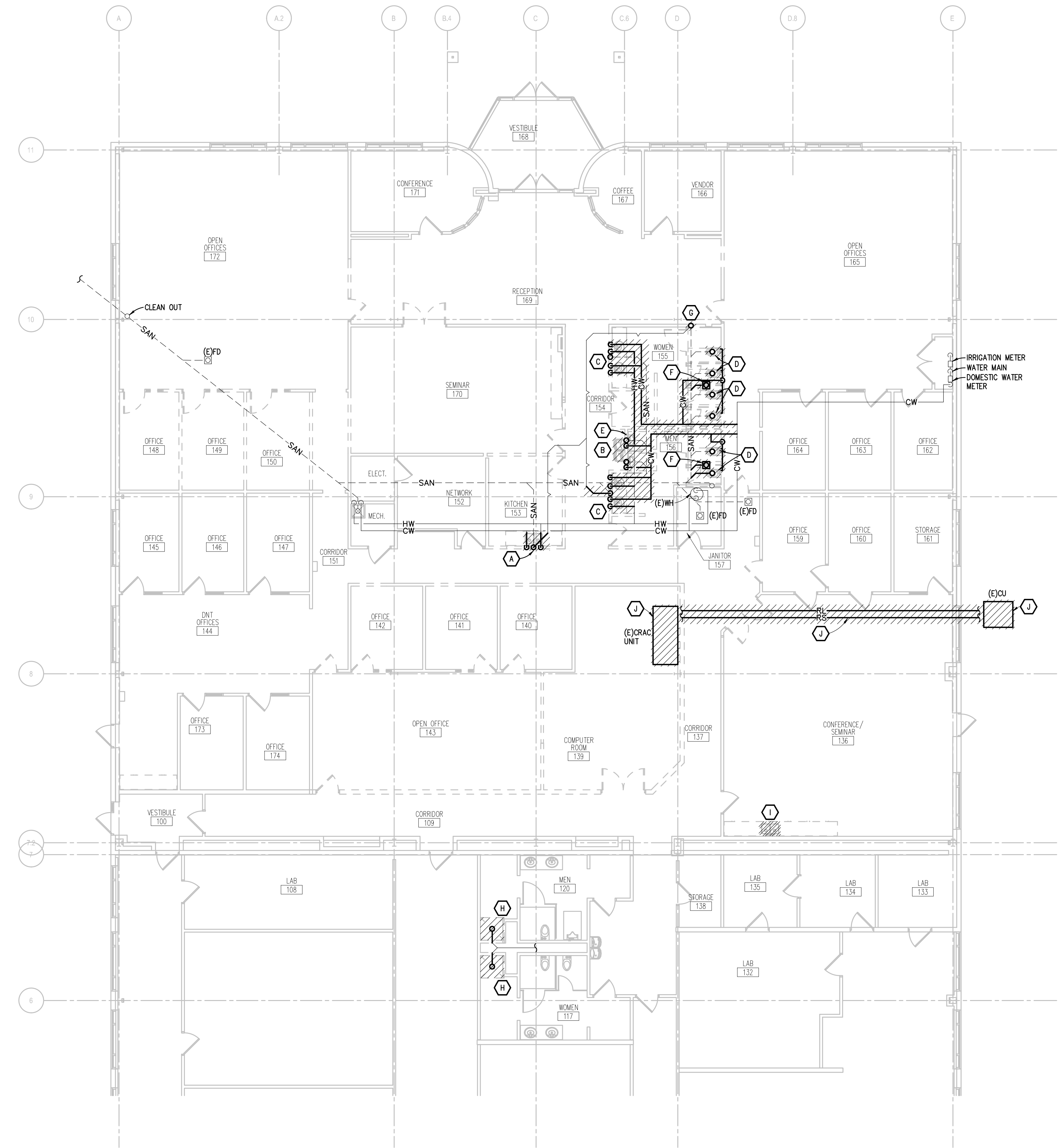
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**MECHANICAL DEMOLITION GENERAL NOTES:**

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

**DEMOLITION KEY NOTES:**

- A. DEMOLISH EXISTING SINK COMPLETE. REMOVE HW, CW, AND VENT BACK TO MAIN. DEMOLISH SAN BELOW FLOOR AND CAP.
- B. REMOVE EXISTING WATER COOLER AND PREPARE FOR RELOCATION. DEMO CW LINE BACK TO MAIN AND CAP.
- C. DEMOLISH EXISTING LAVS COMPLETE. REMOVE HW, CW, AND VENT BACK TO INDICATED LOCATION. DEMOLISH SAN TO FLOOR AND CAP.
- D. DEMOLISH EXISTING WATER CLOSET COMPLETE. REMOVE CW BACK TO WALL AND CAP. DEMOLISH SAN BELOW FLOOR AND CAP.
- E. DEMOLISH EXISTING URINALS COMPLETE. REMOVE CW BACK TO MAIN AND CAP. DEMOLISH SAN TO FLOOR AND CAP.
- F. DEMOLISH EXISTING FLOOR DRAIN COMPLETE. REMOVE SAN BACK TO MAIN AND CAP. VTR TO REMAIN.
- G. DEMOLISH EXISTING WALL CLEANOUT COMPLETE. REMOVE SAN BACK TO FLOOR AND CAP. VTR TO REMAIN.
- H. DEMOLISH EXISTING SHOWER COMPLETE. REMOVE HW, CW BACK TO MAIN. CAP HW AND PREPARE CW AND SAN FOR NEW CONNECTION.
- I. REMOVE SINK AND FAUCET. PREPARE EXISTING HW, CW, SAN, AND VENT FOR NEW CONNECTIONS.
- J. REMOVE CRAC UNIT, OUTDOOR CONDENSING UNIT, AND ALL ASSOCIATED PIPING. PATCH WALLS COMPLETE AS REQUIRED. CAP ANY ASSOCIATED FLOOR DRAINS.



**FIRST FLOOR ENLARGED PLUMBING DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"

DRAWING SET INFO

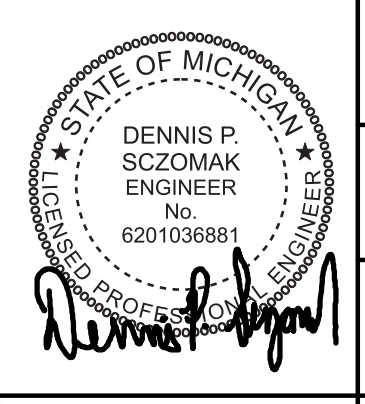
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CHECKED BY: WEK  
APPROVED BY: WEK

SHEET NO.  
**PD001**  
A/E PROJECT NO.  
**2022081**  
CMU PROJECT NO.  
**655113**



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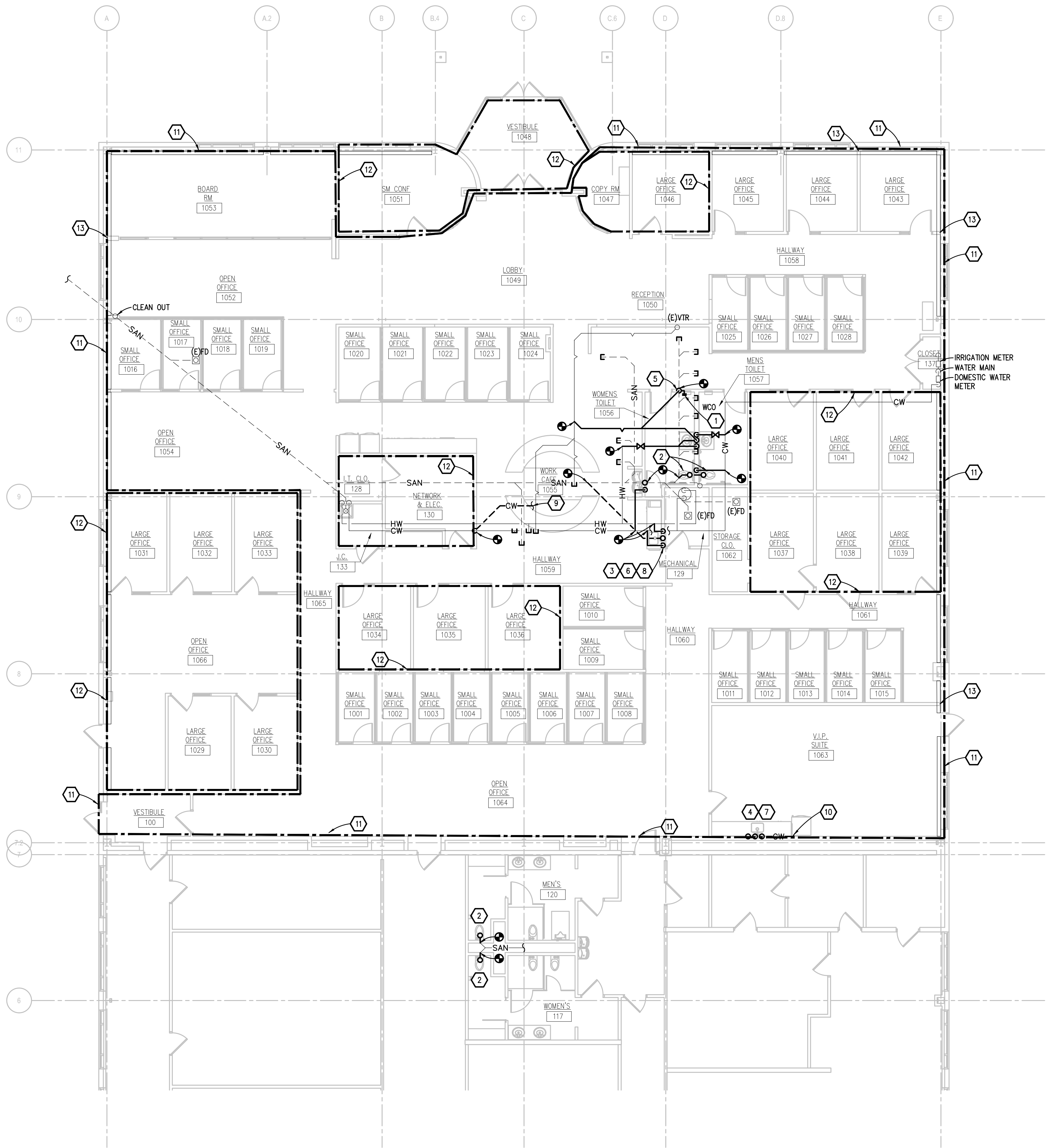
THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

**PLUMBING GENERAL NOTES:**

- THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
- HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
- PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
- WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 12" OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.

**CONSTRUCTION KEY NOTES:**

- EXTEND NEW HW, CW, SAN AND VENT FROM EXISTING MAINS TO NEW LAVATORIES.
- CONNECT NEW CW LINES FROM EXISTING MAINS TO SERVE NEW WATER CLOSETS.
- EXTEND CW, HW, SAN AND VENT FROM EXISTING MAINS TO SERVE NEW SINK.
- ROUTE NEW CW LINE FROM EXISTING TO REFRIGERATOR ICE MAKER.
- NEW WALL CLEANOUT AND VENT UP.
- PROVIDE ISOLATION VALVES FOR HW AND CW TO SINK.
- RECONNECT EXISTING HW, CW, SAN, AND VENT TO NEW SINK.
- EXTEND 1/2" HW AND CW LINE IN MILLWORK TO SERVE DISHWASHER AND COFFEE MACHINE.
- 1/2" CW LINE TO SERVE ICE MACHINE.
- EXTEND CW LINE IN MILLWORK TO SERVE REFRIGERATOR.
- FIRE PROTECTION TO BE UPDATED TO MEET CODE IN AREAS SHOWN EXCEPT FOR AREAS INDICATED BY CONSTRUCTION KEY NOTE 12.
- FIRE PROTECTION IN AREAS INDICATED IS TO REMAIN AS IS.
- COORDINATE WALL FTR WALL PENETRATIONS WITH ARCHITECTURAL PLANS. PROVIDE COVER TO CAP WALL PENETRATIONS FOR FUTURE MAINTENANCE.



**FIRST FLOOR ENLARGED PLUMBING PLAN**  
SCALE: 1/8" = 1'-0"

**DRAWING SET INFO**

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**ADDENDUM/BULLETIN REVISIONS**

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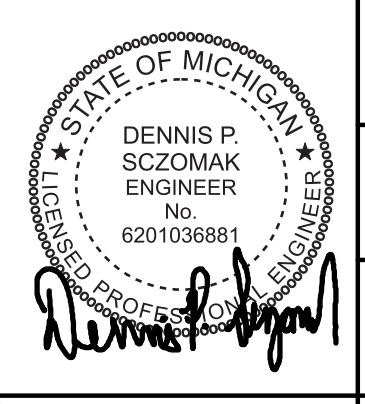
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SHEET NO.

**P101**

A/E PROJECT NO.  
**2022081**

CMU PROJECT NO.  
**655113**



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MECHANICAL ABBREVIATION LIST

Table with 4 columns: ABBREVIATION, DESCRIPTION, ABBREVIATION, DESCRIPTION. Lists various mechanical components and their abbreviations.

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists symbols for temperature control components like sensors and transmitters.

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

MECHANICAL SYMBOL LIST

Table with 3 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists symbols for various mechanical systems including piping, ductwork, and equipment.

STANDARD METHODS OF NOTATION

Table with 2 columns: SYMBOL, DESCRIPTION. Defines notation for ductwork, piping, and equipment, including supply diffusers, registers, and valves.

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

DRAWING SET INFO table with columns for drawing type, scale, and date.

ADDENDUM/BULLETIN REVISIONS

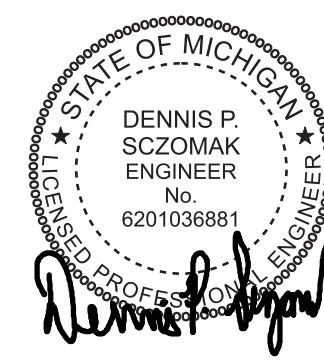
Table with 2 columns: DATE, DESCRIPTION. Lists revisions to the drawing set.

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SHEET NO. M001

A/E PROJECT NO. 2022081

CMU PROJECT NO. 655113





HORIZONTAL PIPING AND SUPPORT APPLICATION SCHEDULE			
PIPE TYPE & SIZE	HANGER OR SUPPORT TYPE	SHIELD TYPE	KEYED NOTES
UNINSULATED SINGLE PIPE			
UP TO 2 INCH	X		
2-1/2 INCH TO 4 INCH	X		
4 AND LARGER	X		
INSULATED SINGLE COLD PIPES			
UP TO 2 INCH	X	X	A
2-1/2 INCH TO 4 INCH	X	X	A
INSULATED SINGLE HOT PIPES			
UP TO 2 INCH	X	X	A, C
2-1/2 INCH TO 4 INCH	X	X	A, B, C

**GENERAL NOTES**

- "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS CONTRACTOR'S OPTION.
- REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS.
- HANGERS AND SUPPORTS USED FOR FIRE PROTECTION SERVICES SHALL BE UL LISTED OR FMG APPROVED.
- HANGER ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC COATED, FELT LINED, OR USE MANUFACTURED COPPER TUBE INSULATORS.
- REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR HANGER SPACING.
- MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING U-BOLTS OR STRUT CLAMPS AND THERMAL HANGER SHIELDS.
- MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD HANGER ELEMENTS INDICATED FOR SINGLE COLD PIPES. REFER TO KEYED NOTE A.
- MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD ROLLER HANGERS INDICATED AND THERMAL HANGER PROTECTION SADDLE. REFER TO KEYED NOTES B AND C.
- MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD ROLLER HANGERS INDICATED AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEYED NOTES B AND C.
- REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR ADDITIONAL SYSTEM SPECIFIC HANGER APPLICATIONS.

**KEYED NOTES**

- USE THERMAL HANGER SHIELD ON TRAPEZE SUPPORTED INSULATED PIPE TO PREVENT CRUSHING OF INSULATION.
- USE THERMAL HANGER SHIELD DESIGNED FOR USE ON ROLLER SUPPORTS FOR INSULATED HOT PIPE.
- USE TYPE 39 PROTECTION SADDLES IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS WITH INSULATION MATCHING ADJOINING INSULATION.

ABOVEGROUND HVAC PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE										
INDOOR PIPE SYSTEM AND SIZE (INCHES)	INSULATION MATERIAL & THICKNESS (INCHES)					FIELD-APPLIED JACKET MATERIAL				
HEATING HOT WATER SUPPLY & RETURN 200 DEG F AND LOWER										
3 AND SMALLER	1					X	X			A
4 AND LARGER	1.5					X	X			A

**GENERAL NOTES**

- "X" OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.

**KEYED NOTES**

- PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.

DUCT SYSTEM INSULATION APPLICATION SCHEDULE										
DUCT SYSTEMS LOCATED INDOORS	INSULATION MATERIAL & THICKNESS (INCHES)					FIELD APPLIED JACKET MATERIAL				
SUPPLY AIR & RETURN AIR, EXCEPT AS NOTED BELOW										
RECTANGULAR SUPPLY AIR IN MECHANICAL ROOMS	1.5									A, B
RECTANGULAR RETURN AIR IN MECHANICAL ROOMS	1.5									
EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, EXCEPT AS NOTED BELOW	1.5									
OUTSIDE AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, EXCEPT AS NOTED BELOW	1.5									

**DUCT SYSTEMS LOCATED INDOORS**

SUPPLY AIR & RETURN AIR, EXCEPT AS NOTED BELOW

RECTANGULAR SUPPLY AIR IN MECHANICAL ROOMS

RECTANGULAR RETURN AIR IN MECHANICAL ROOMS

EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, EXCEPT AS NOTED BELOW

OUTSIDE AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, EXCEPT AS NOTED BELOW

PLENUMS, DUCTS, AND DUCT ACCESSORIES NOT REQUIRING INSULATION:  
 FIBROUS-GLASS DUCTS  
 DOUBLE-WALL METAL DUCTS WITH INSULATION OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2007  
 METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 - 2007  
 EXPOSED SUPPLY DUCT IN CONDITIONED SPACE SERVED BY THAT SYSTEM  
 FABRIC SUPPLY DUCTS  
 FACTORY-INSULATED FLEXIBLE DUCTS  
 FACTORY-INSULATED PLENUMS AND CASINGS  
 FLEXIBLE CONNECTORS  
 VIBRATION-CONTROL DEVICES  
 FACTORY-INSULATED ACCESS PANELS AND DOORS

**GENERAL NOTES**

- "X" OR THICKNESS IN INCHES INDICATE ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- REFER TO METAL DUCT SECTION OF SPECIFICATIONS FOR DUCT LINING AND DOUBLE-WALL INSULATED DUCT.
- REFER TO HVAC CASINGS SECTION OF SPECIFICATIONS FOR DOUBLE-WALL INSULATED PLENUMS.

**KEYED NOTES**

- INCLUDE INSULATION AROUND DUCT MOUNTED COILS AND AIR TERMINAL UNIT COILS.
- INCLUDE ACOUSTIC LINING FOR SUPPLY AND RETURN DUCTWORK AS NOTED ON FLOOR PLANS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

AIR TERMINAL UNIT WITH HOT WATER COIL SCHEDULE												
UNIT IDENTIFICATION	INLET SIZE	UNIT SERVED FROM	AIR FLOW				AIR				KEYED NOTES	
			COOLING MAX CFM	COOLING MIN. CFM	HEATING MIN. CFM	HEATING MAX CFM	E.D.B. T	L.D.B. T	E.W.T. T	L.W.T. T		
												CONTROL VALVE W.P.D. FT. HEAD
(E)TU-1	10	(E)AHU	600	400	400	600	60	90	180	150	15	EXISTING
(E)TU-2	10	(E)AHU	600	400	400	600	60	90	180	150	15	EXISTING
(E)TU-3	16	(E)AHU	2000	1000	1000	2000	60	90	180	150	15	EXISTING
(E)TU-4	16	(E)AHU	2000	1000	1000	2000	60	90	180	150	15	EXISTING
(E)TU-5	6	(E)AHU	250	200	200	250	60	90	180	150	15	EXISTING
(E)TU-6	12	(E)AHU	1500	750	750	1500	60	90	180	150	15	EXISTING
(E)TU-7	10	(E)AHU	800	400	400	800	60	90	180	150	15	EXISTING
(E)TU-8	12	(E)AHU	1350	675	675	1350	60	90	180	150	15	EXISTING
(E)TU-9	12	(E)AHU	1500	750	750	1500	60	90	180	150	15	EXISTING
(E)TU-10	12	(E)AHU	1200	600	600	1200	60	90	180	150	15	EXISTING
(E)TU-11	12	(E)AHU	1400	700	700	1400	60	90	180	150	15	EXISTING
(E)TU-12	8	(E)AHU	400	200	200	400	60	90	180	150	15	EXISTING
(E)TU-13	8	(E)AHU	600	400	400	600	60	90	180	150	15	EXISTING
(E)TU-14	8	(E)AHU	600	400	400	600	60	90	180	150	15	EXISTING
(E)TU-15	16	(E)AHU	2000	1000	1000	2000	60	90	180	150	15	EXISTING
(E)TU-16	16	(E)AHU	2000	1000	1000	2000	60	90	180	150	15	EXISTING
(E)TU-17	12	(E)AHU	1200	600	600	1200	60	90	180	150	15	EXISTING

**GENERAL NOTES:**

- MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED.
- MAXIMUM PRESSURE DROP SCHEDULED SHALL BE THE MAXIMUM ALLOWABLE STATIC PRESSURE FOR BOX AND COIL. AT THE MAXIMUM CFM.
- HEATING COIL SELECTION BASED ON HEATING MAXIMUM AIR FLOW.

DUCT SYSTEM APPLICATION SCHEDULE											
DUCT SYSTEM	DUCT MATERIAL										
RETURN AIR WITHOUT TERMINAL UNITS	X										
SUPPLY AIR UPSTREAM OF TERMINAL UNITS	X										
SUPPLY AIR DOWNSTREAM OF TERMINAL UNITS	X										

**GENERAL NOTES**

- "X" INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.

**KEYED NOTES**

- SCREWS, DAMPERS, OR PROJECTIONS OF ANY TYPE ON INTERIOR OF DUCT SURFACE ARE PROHIBITED.
- DUCT SHALL BE LINED WITHIN 25 FEET UPSTREAM OF FANS.
- ALL WELDED CONSTRUCTION.
- ALL EXPOSED DUCTWORK IN THE GYM SHALL BE PAINTED, PROVIDE PAINT GRIP STEEL GALVANNEALED.

HVAC PIPING & VALVE APPLICATION SCHEDULE										
PIPE SIZE (INCHES)	MATERIAL					CONNECTION			ISOLATION VALVES	
UP TO 2	X								X	
2-1/2 TO 4	X	X				X	X		X	

**GENERAL NOTES**

- "X" INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS. IF A BRONZE VALVE CONNECTS THE DISSIMILAR METALS NO FURTHER DIELECTRIC ISOLATION IS REQUIRED.
  - NPS 2 AND SMALLER: USE BRASS COUPLING, NIPPLE, OR UNION.
  - NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.
- USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
- HVAC EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.
- GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.

**KEYED NOTES**

- GROOVED FITTINGS, JOINTS, AND COUPLINGS, IF INDICATED AS AN ACCEPTABLE SELECTION, MAY BE USED IN ACCESSIBLE LOCATIONS FOR THIS PIPING SYSTEM ONLY.
- BALL VALVE WITH 250 PSIG STEAM TRIM.
- BALL VALVE WITH 150 PSIG STEAM TRIM.
- GROOVED FITTINGS, JOINTS AND COUPLINGS MAY BE USED IN MECHANICAL ROOMS ONLY.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE									
UNIT IDENTIFICATION	TYPE	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NUMBER	REMARKS
S-1	DIFFUSER	24"x24"	SEE PLANS	NOTE 2	NONE	STEEL	WHITE	SCD	
S-2	DIFFUSER	SEE PLANS	SEE PLANS	NOTE 2	NONE	STEEL	WHITE	RCD	
S-3	DIFFUSER	12"x12"	SEE PLANS	NOTE 2	NONE	STEEL	WHITE	SCD	
R-1	GRILLE	24"x24"	SEE PLANS	NOTE 2	NONE	ALUMINUM	WHITE	80	
R-2	GRILLE	12"x12"	10"x10"	NOTE 2	NONE	ALUMINUM	WHITE	80	
R-3	GRILLE	24"x12"	22"x10"	NOTE 2	NONE	ALUMINUM	WHITE	80	
E-1	GRILLE	12"x12"	SEE PLANS	NOTE 2	NONE	ALUMINUM	WHITE	80	

**NOTE:**

- MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE.
- PROVIDE LINED PLENUM AND MODEL VORBER FACE OPERATED REMOTE DAMPER.
- PROVIDE SAR-1 GRILLE WITH MODEL SOF SPIRAL DUCT FRAME AND DAMPER.

PLUMBING CONNECTION SCHEDULE					
UNIT IDENTIFICATION	CW INCHES	HW INCHES	SAN INCHES	VENT INCHES	KEYED NOTES
WC-1	1 1/2	-	4	2	
SK-1	3/4	3/4	1 1/2	1 1/2	
LAV-1	1/2	1/2	1 1/2	1 1/2	

**GENERAL NOTES:**

- INDIVIDUAL WATER LINE BRANCHES, WASTE LINES, VENTS, AND TRAPS FOR CONNECTION TO INDIVIDUAL FIXTURES, FIXTURE FITTINGS, AND SPECIALTIES SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER.

**SCHEDULES GENERAL NOTES:**

TYPICAL FOR ALL SCHEDULE SHEETS:

- REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION.
- PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
  - NON-FUSED DISCONNECT SWITCH
  - UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
  - SERVICE RECEPTACLE
  - FUSED DISCONNECT SWITCH
  - COMBINATION STARTER
  - UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
- FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF-CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
- IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
- WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
- WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
- WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURER OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
- WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
- SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION). REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

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CMURC / RRP-IT RENOVATIONS  
MECHANICAL  
MECHANICAL SCHEDULES

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SCALE	NONE
DRAWN BY	KEP
CHECKED BY	WEK
APPROVED BY	WEK

SHEET NO. **M002**

A/E PROJECT NO. **2022081**

CMU PROJECT NO. **655113**

DENNIS P. SZCZOMAK  
ENGINEER  
No. 620103688



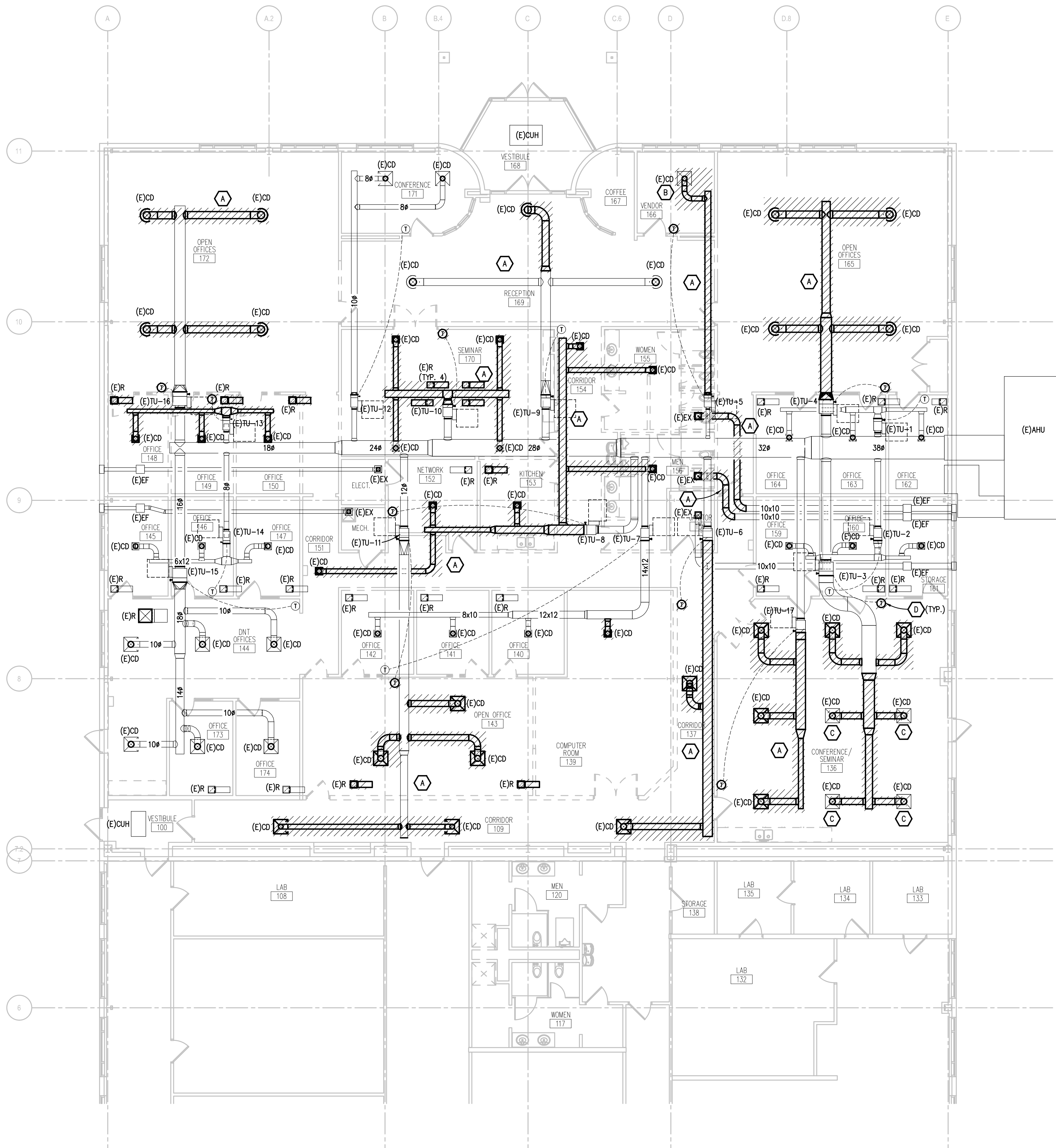
THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

**MECHANICAL DEMOLITION GENERAL NOTES:**

- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
- ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

**DEMOLITION KEY NOTES:**

- DEMOLISH EXISTING DUCTWORK, DIFFUSERS, AND DAMPERS BACK TO AREA INDICATED.
- CEILING DIFFUSER TO REMAIN. PREPARE FOR NEW CONNECTION.
- CEILING DIFFUSER TO BE SALVAGED AND RELOCATED.
- ALL THERMOSTATS BEING DEMOLISHED ARE TO BE SAVED AND RELOCATED FOR USE IN THE NEW RENOVATED ZONES.



**FIRST FLOOR ENLARGED SHEET METAL DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"

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**CMURC / RRIP-IT RENOVATIONS**  
**MECHANICAL**  
FIRST FLOOR ENLARGED SHEET METAL DEMOLITION PLAN

**DRAWING SET INFO**

100% SCHEMATIC DESIGN REVIEW	<input type="checkbox"/>
50% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
95% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
50% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
95% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
90 AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
RECORD DRAWINGS - AS BUILT SET	<input type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

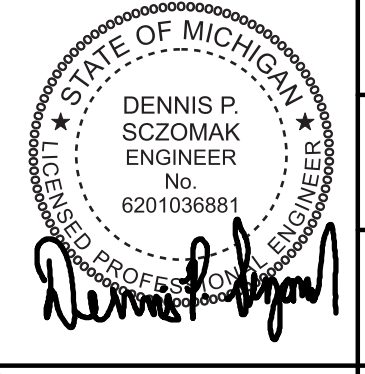
**ADDENDUM/BULLETIN REVISIONS**

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SCALE: 1/8" = 1'-0"

DRAWN BY: KEP  
CHECKED BY: WEK  
APPROVED BY: WEK

SHEET NO.  
**MD401**  
A/E PROJECT NO.  
**2022081**  
CMU PROJECT NO.  
**655113**



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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.

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95% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
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95% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
80 AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
RECORD DRAWINGS - AS BUILT SET	<input type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

ADDENDUM/BULLETIN REVISIONS

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SCALE 1/8"=1'-0"  
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CHECKED BY: WEK  
APPROVED BY: WEK

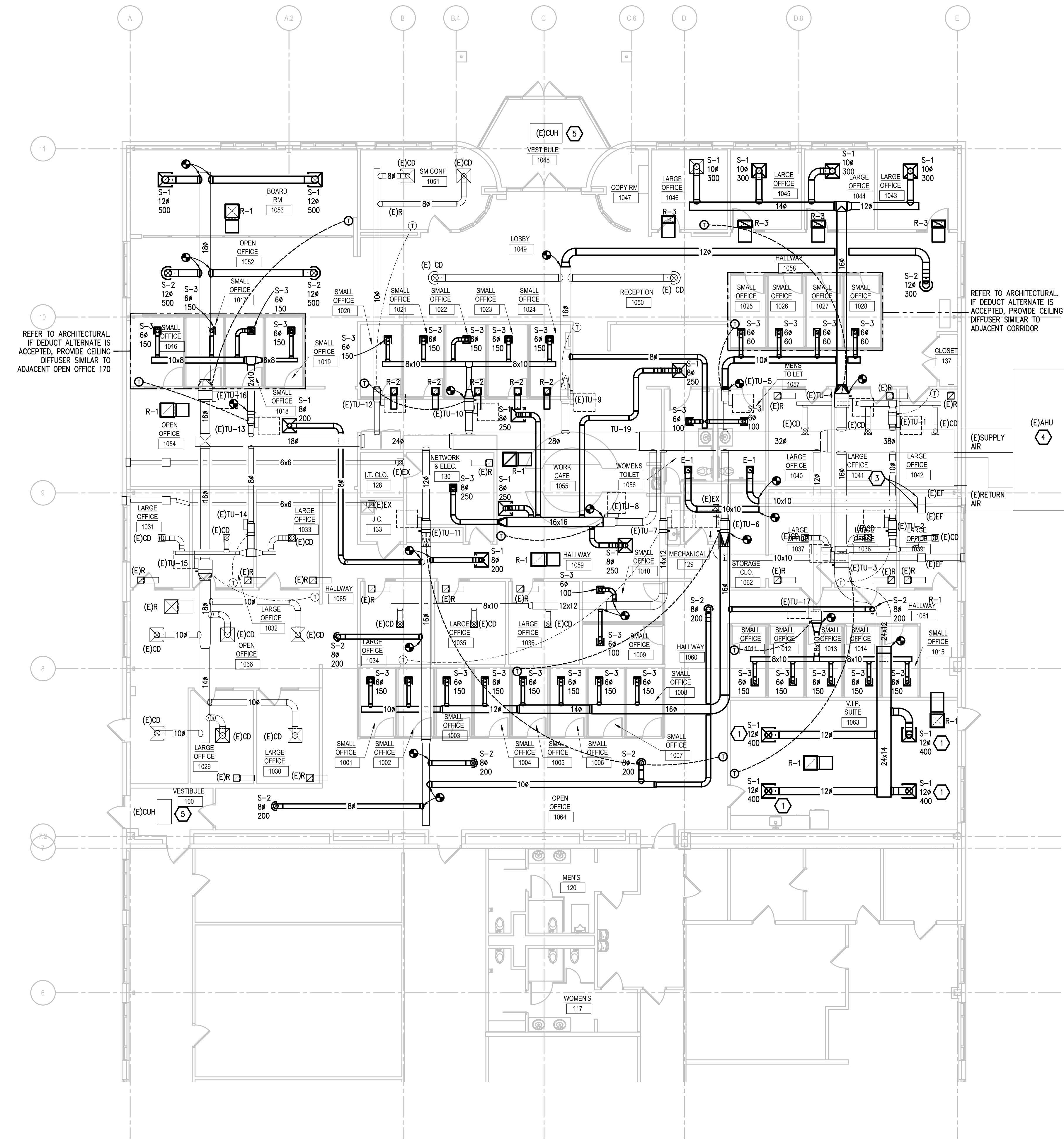
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**M401**  
A/E PROJECT NO.  
**2022081**  
CMU PROJECT NO.  
**655113**

**SHEET METAL GENERAL NOTES:**

- THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
- REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

**CONSTRUCTION KEY NOTES:**

- RELOCATED DIFFUSER.
- NOT USED.
- EXISTING EXHAUST FAN AND DUCTWORK TO REMAIN.
- EXISTING AIR HANDLING UNIT TO REMAIN. TEST AND BALANCE TO ACCOMMODATE RENOVATIONS.
- EXISTING CABINET UNIT HEATER TO REMAIN.



**FIRST FLOOR ENLARGED SHEET METAL PLAN**  
SCALE 1/8" = 1'-0"

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95% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
50% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
95% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
80 AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

ADDENDUM/BULLETIN REVISIONS

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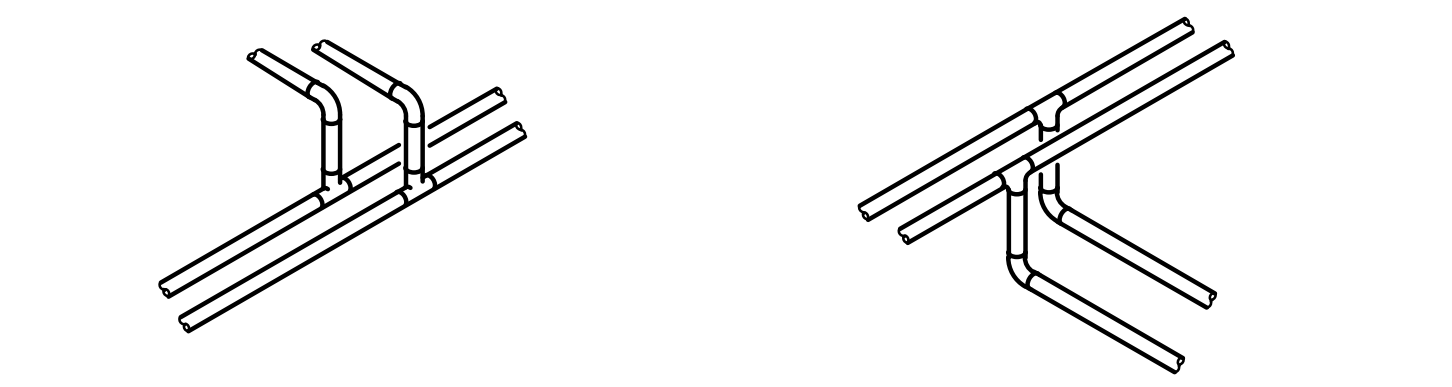
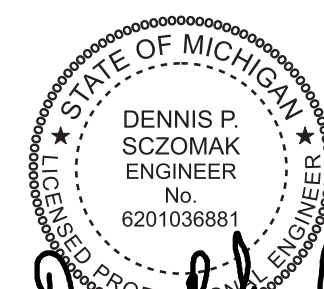
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DRAWN BY: KEP  
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SHEET NO.

**M601**

A/E PROJECT NO.  
**2022081**

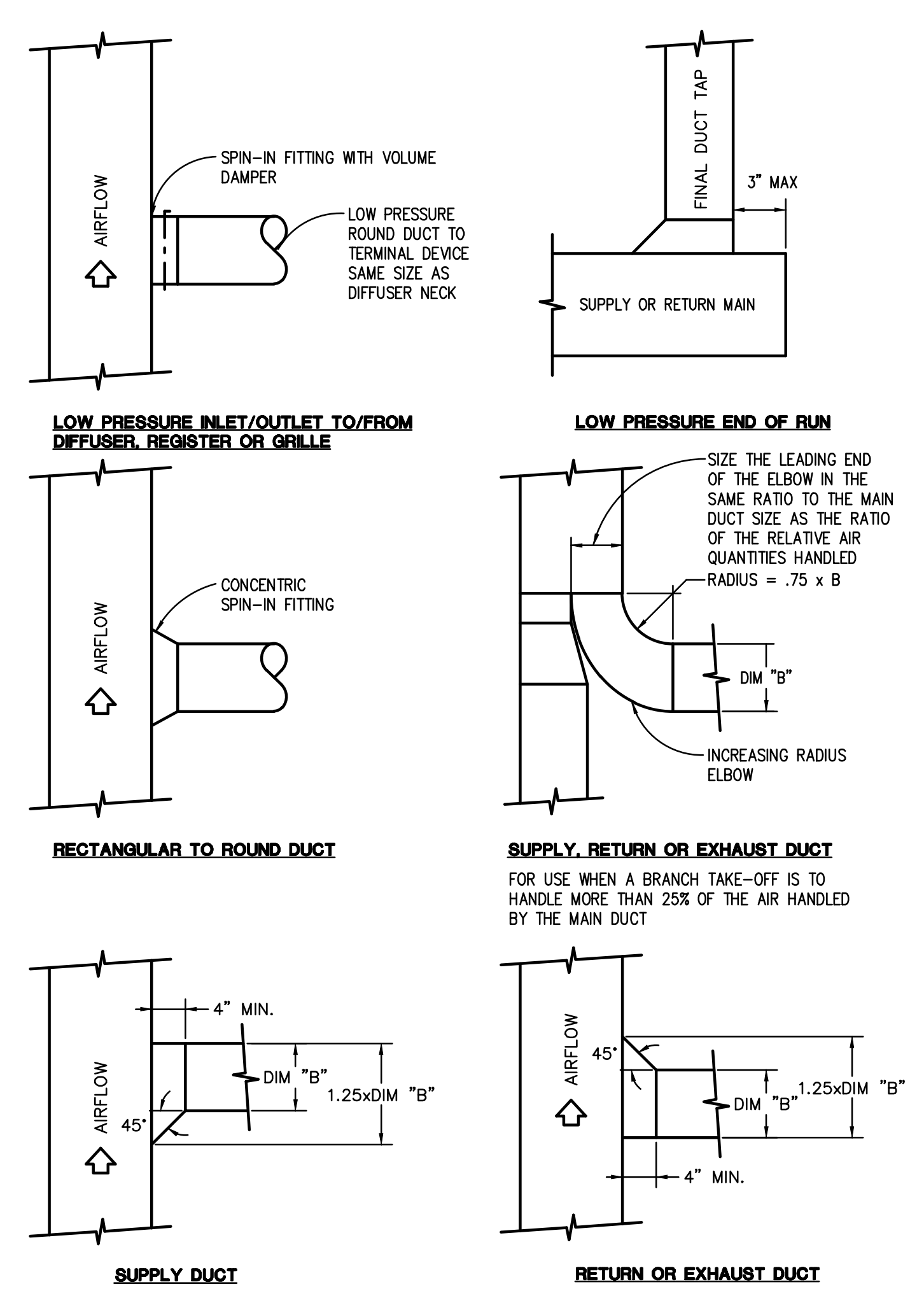
CMU PROJECT NO.  
**655113**



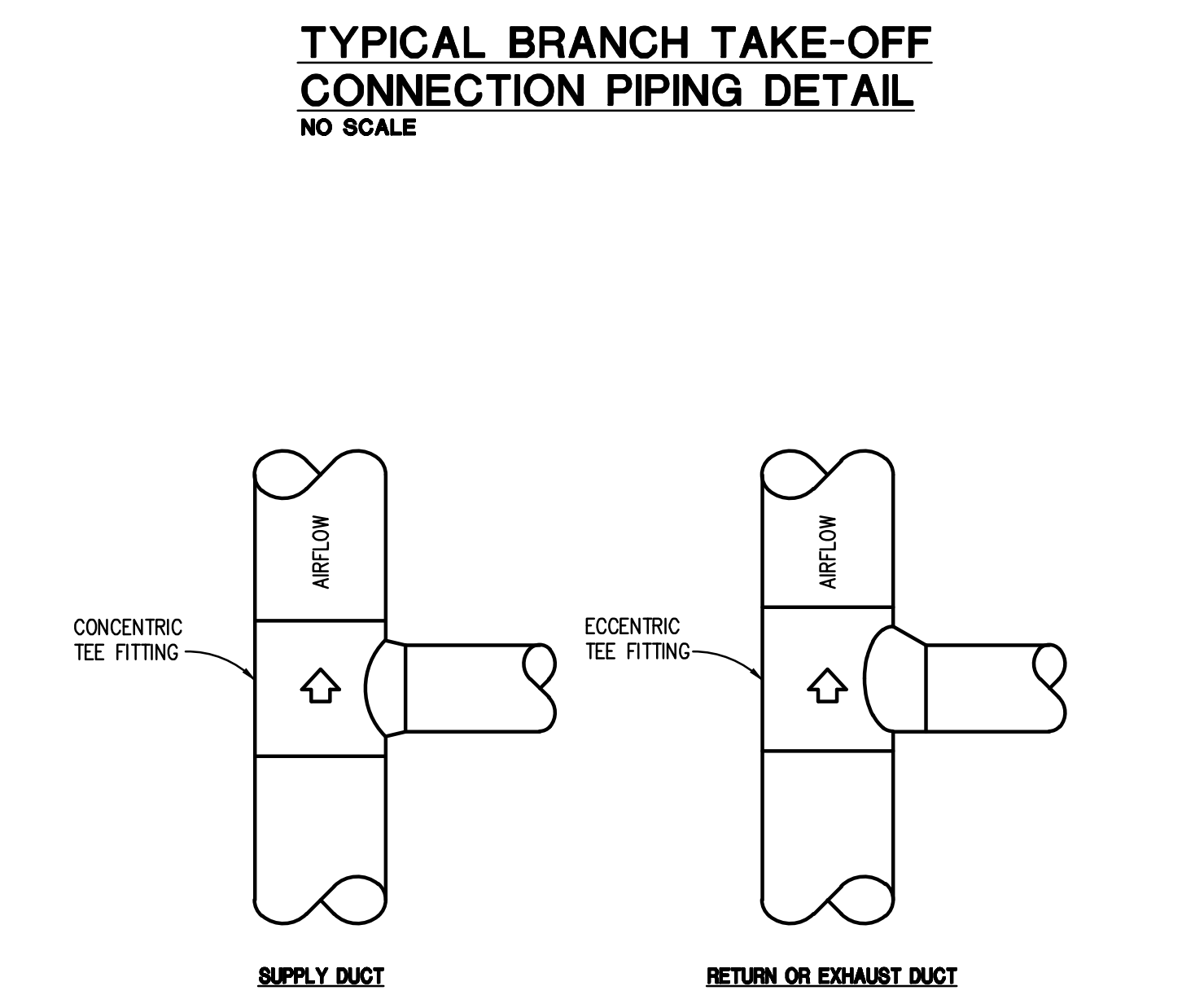
**BRANCH CONNECTION OFF TOP**  
APPLIES TO THE FOLLOWING SYSTEMS:  
DOMESTIC WATER  
NATURAL GAS

**BRANCH CONNECTION OFF BOTTOM**  
APPLIES TO THE FOLLOWING SYSTEMS:  
HOT WATER HEATING  
CHILLED WATER  
CONDENSER WATER  
ENERGY RECOVERY  
PROCESS COOLING WATER

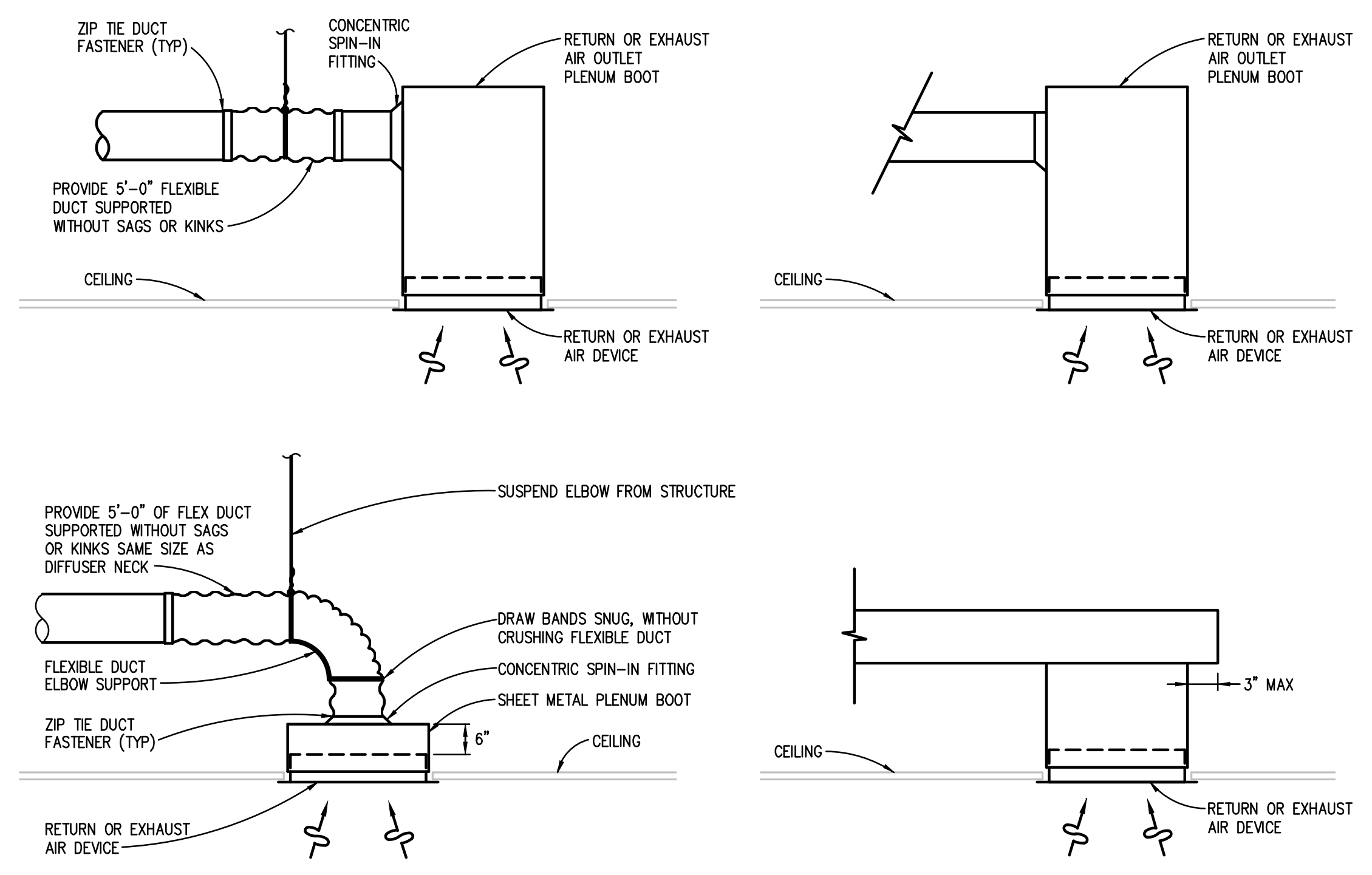
NOTE: BOTTOM AS INDICATED OR SIDE CONNECTION IS ACCEPTABLE. CONNECTION ABOVE CENTERLINE OF MAINS IS NOT ACCEPTABLE.



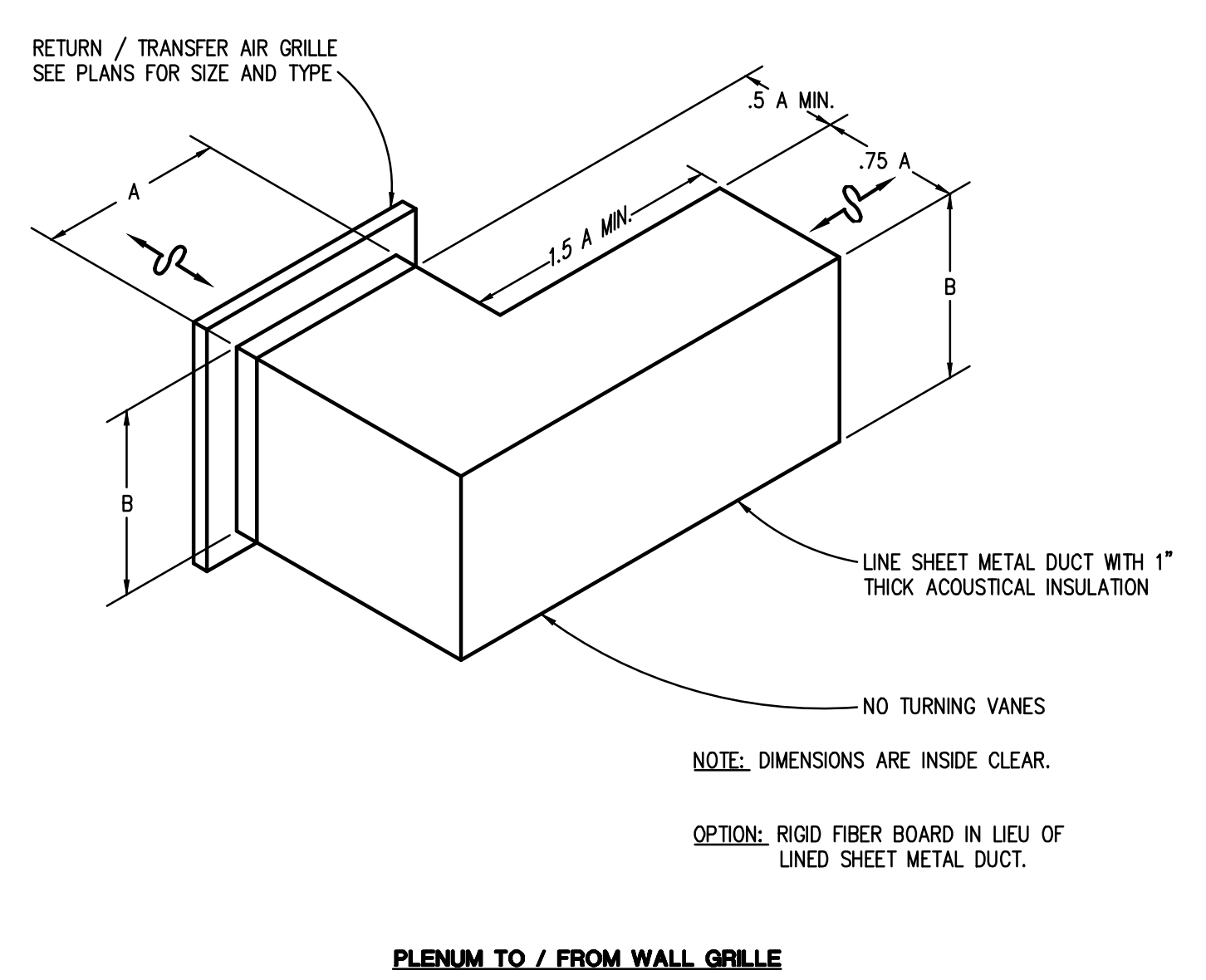
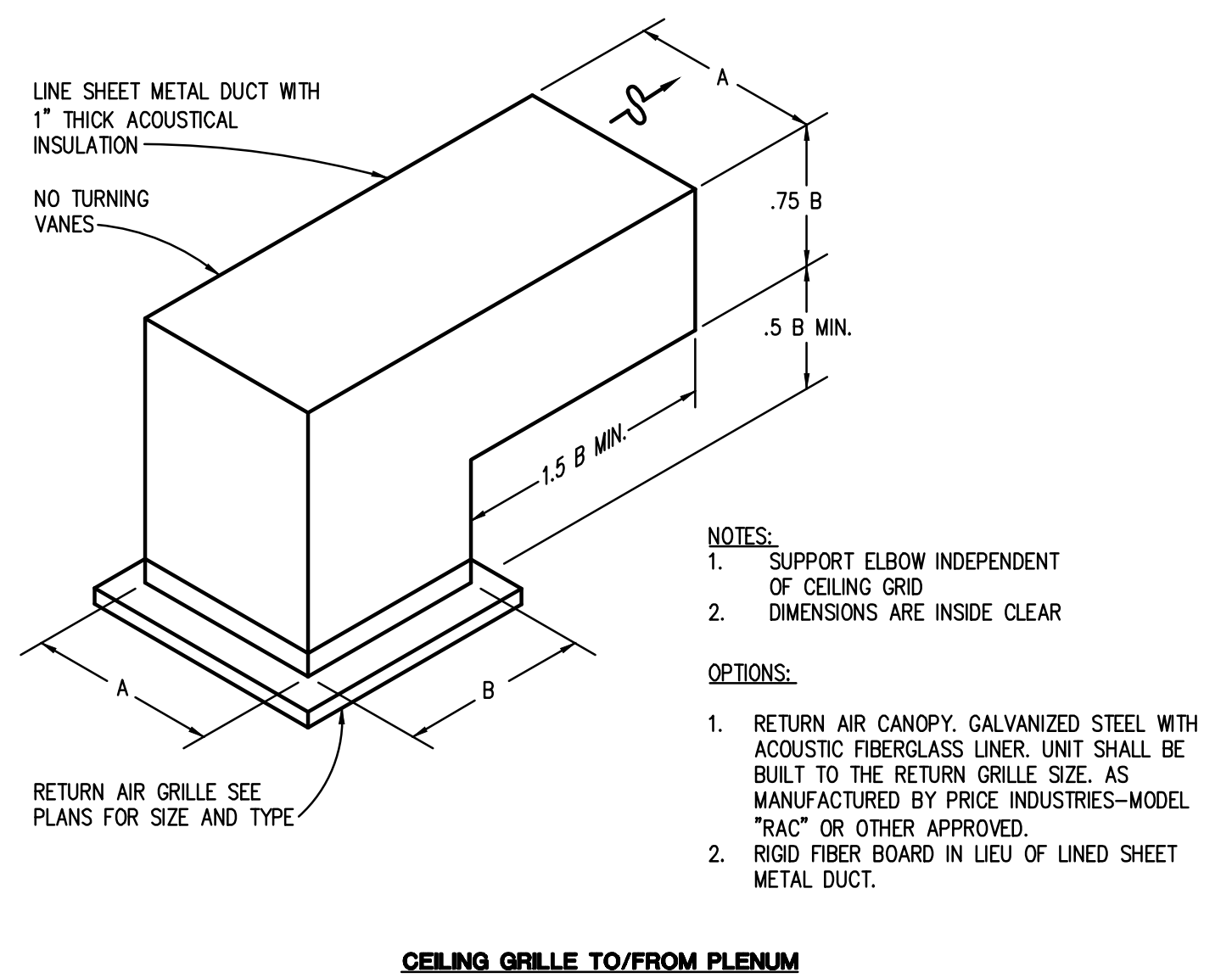
**TYPICAL BRANCH TAKE-OFF CONNECTION PIPING DETAIL**  
NO SCALE



**SPIRAL DUCT BRANCH TAKE-OFF DETAILS**  
NO SCALE (ROUND AND FLAT OVAL SIMILAR)

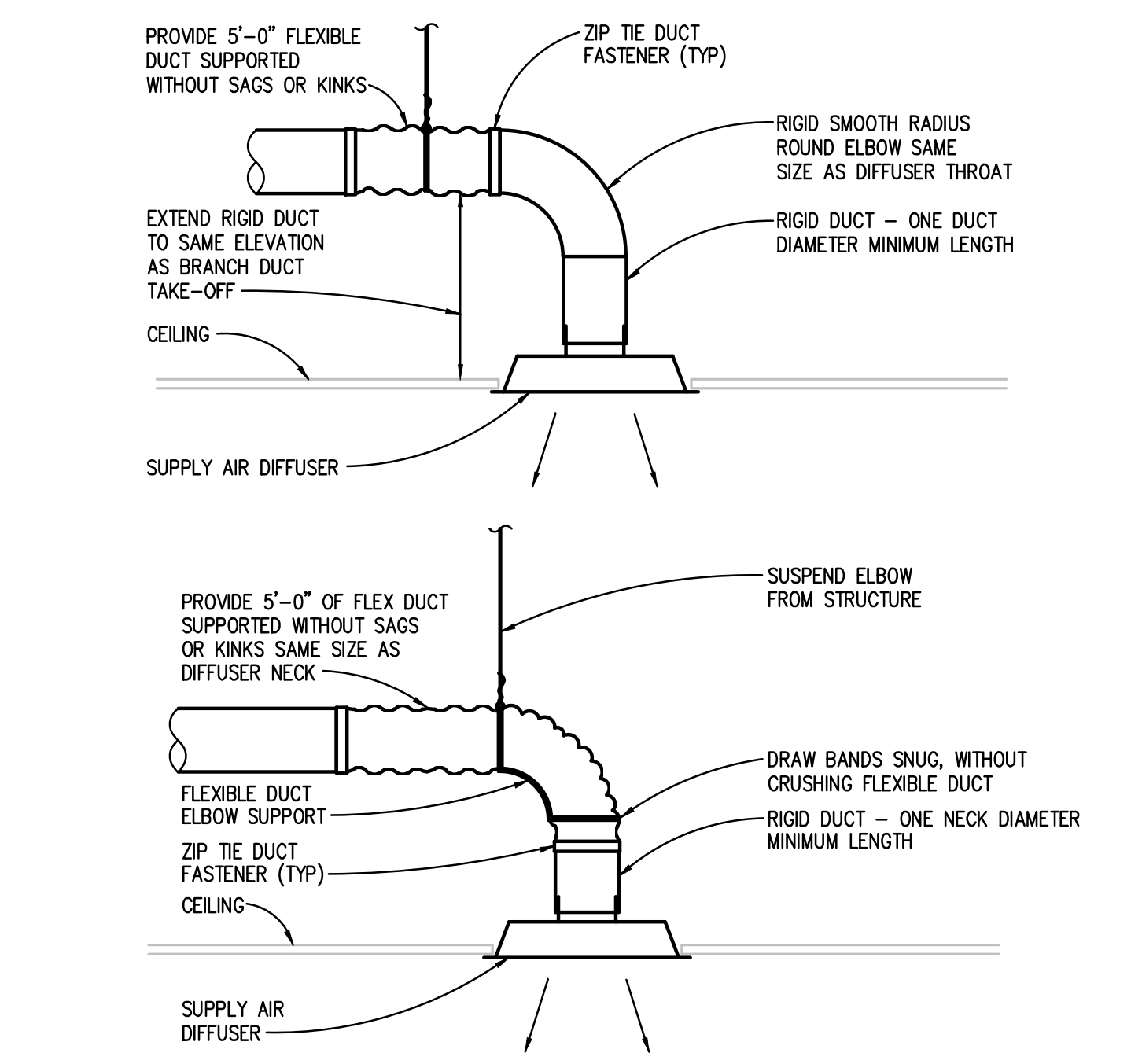


**RETURN OR EXHAUST AIR DEVICE INSTALLATION DETAIL**  
NO SCALE  
NOTE: PAINT INTERIOR SURFACE OF PLENUM BOX FLAT BLACK.

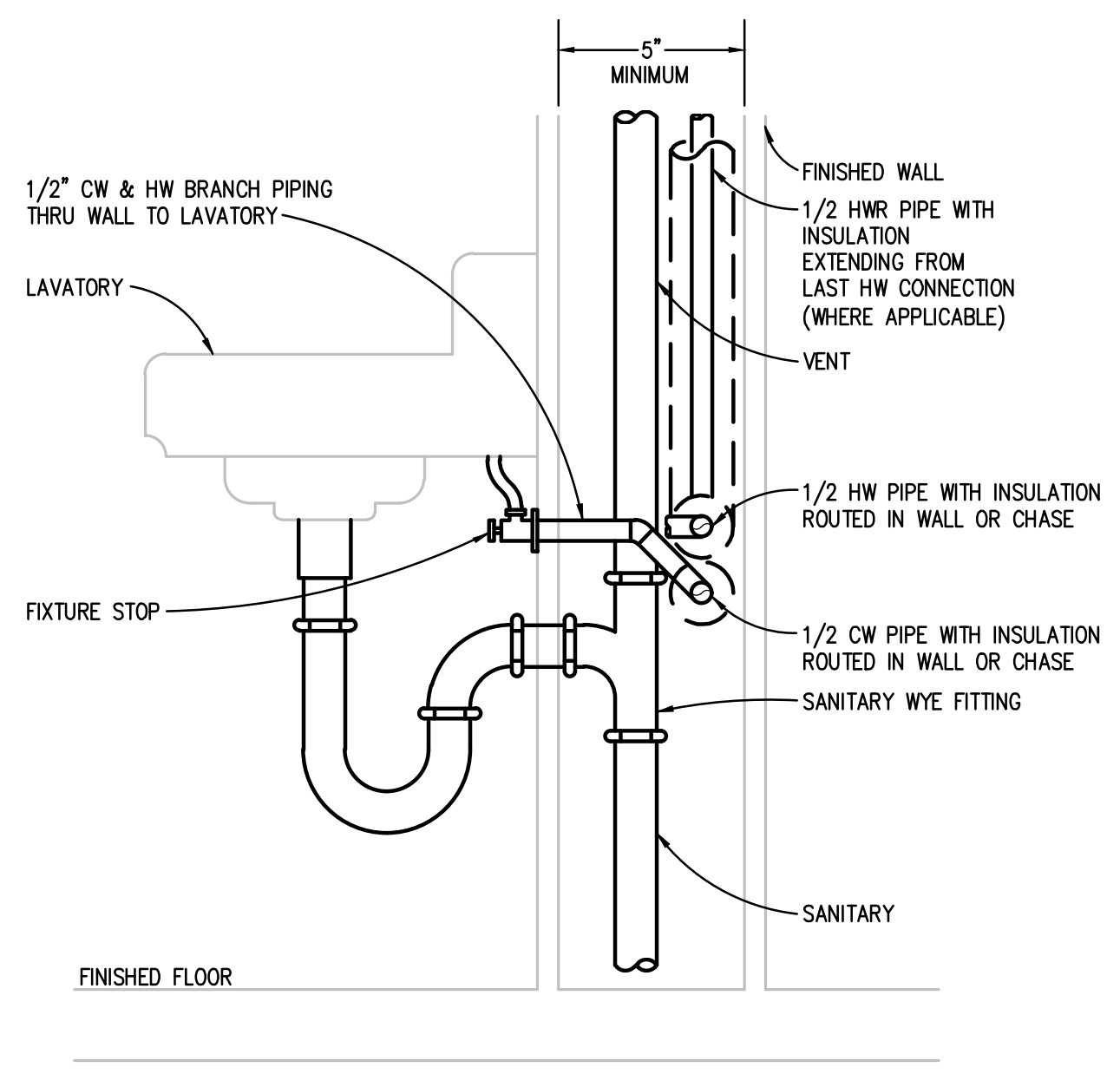


**CEILING GRILLE TO/FROM PLENUM**  
NO SCALE

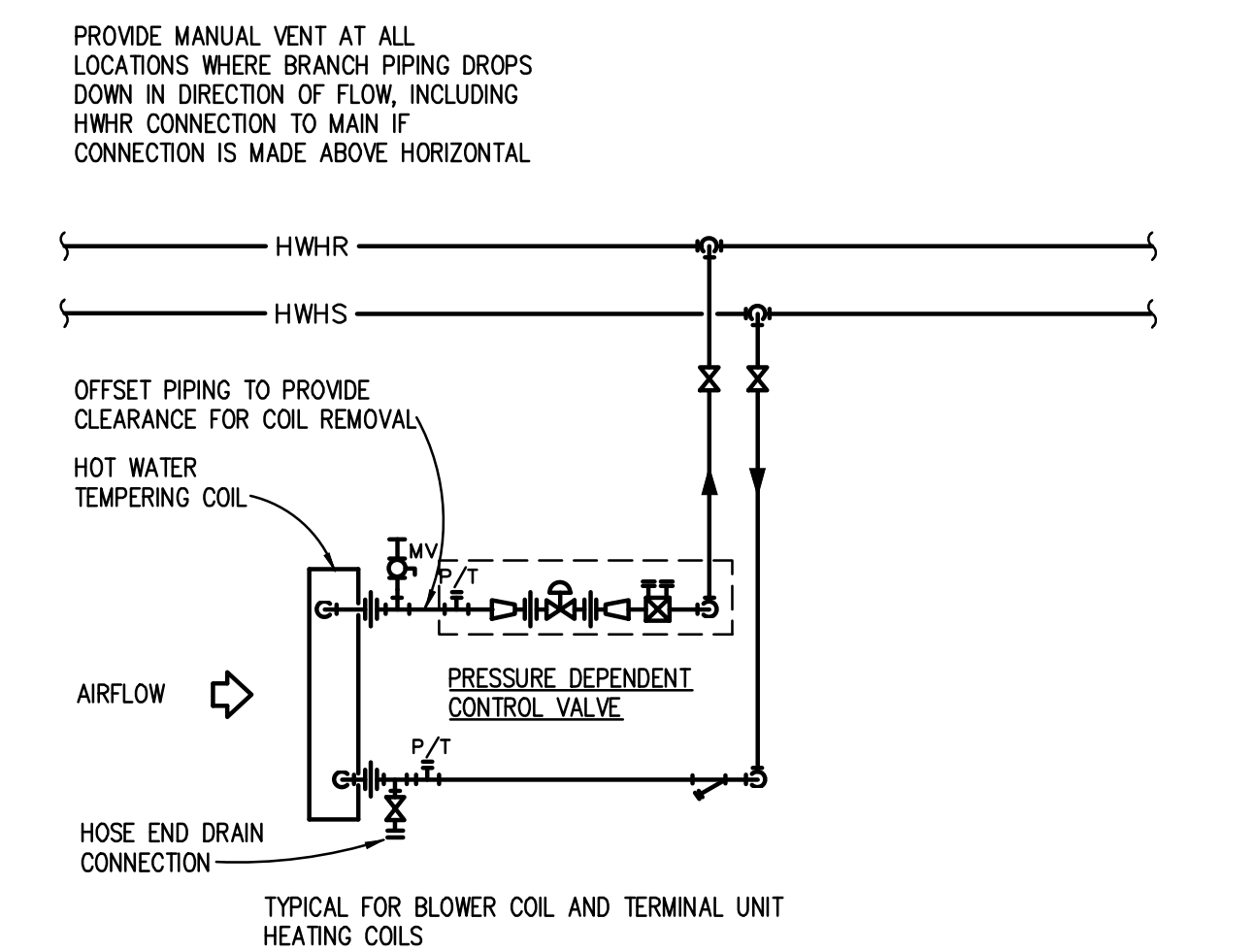
**PLENUM TO / FROM WALL GRILLE**  
NO SCALE



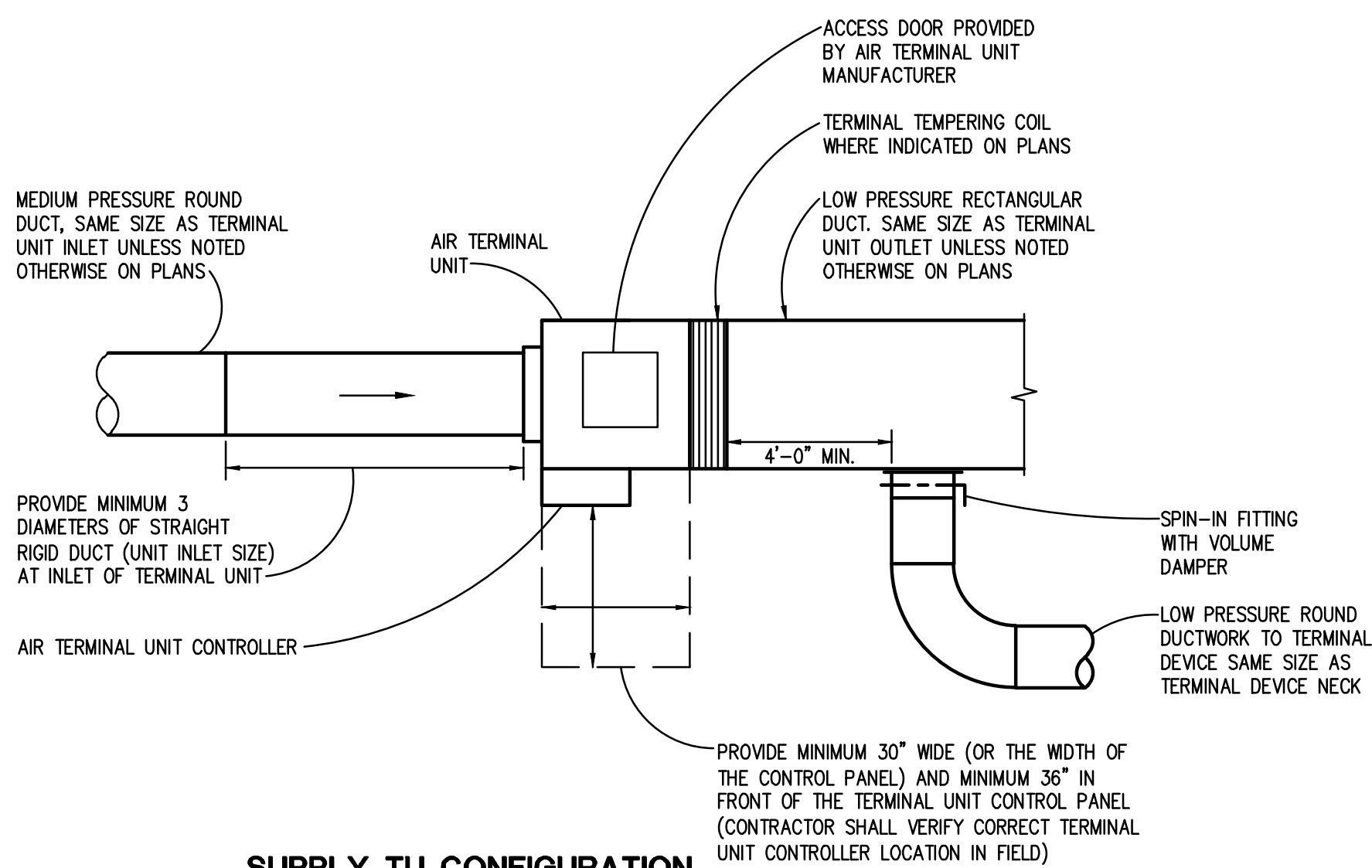
**ROUND NECK SUPPLY AIR DIFFUSER DETAIL**  
NO SCALE



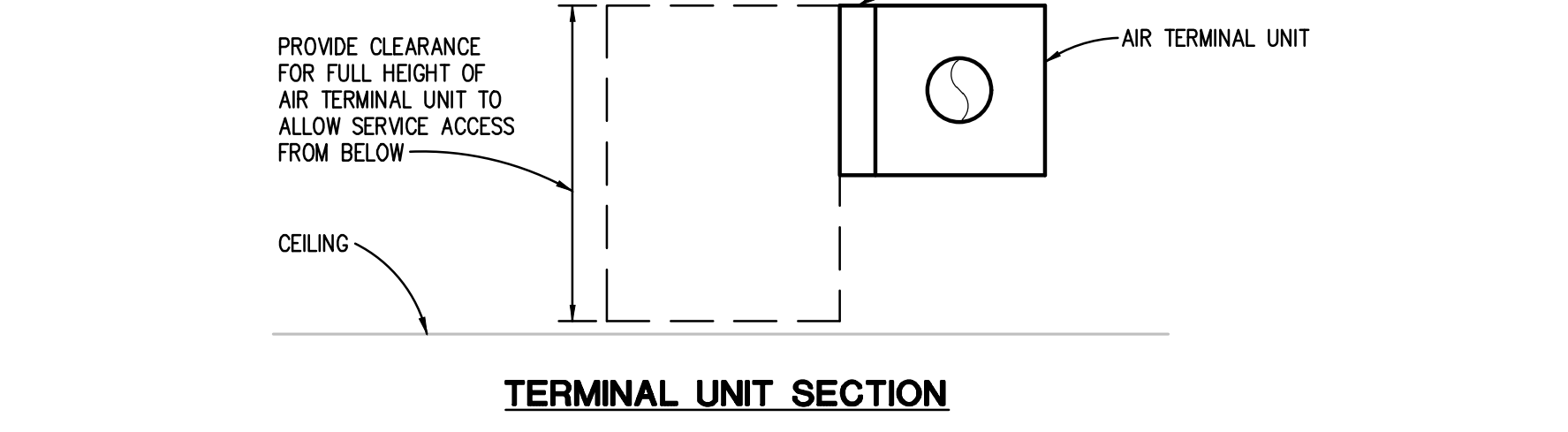
**TYPICAL LAVATORY DETAIL**  
NO SCALE



**HOT WATER TEMPERING COIL WITH TWO-WAY CONTROL VALVE PIPING DIAGRAM**  
NO SCALE



**SUPPLY TU CONFIGURATION**



**TERMINAL UNIT SECTION**

**AIR TERMINAL UNIT (TU) DETAIL**  
NO SCALE

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**TEMPERATURE CONTROL - SYMBOLS LIST**

**SCHEMATIC SYMBOLS**

SYMBOL	DESCRIPTION
AFC	AIR FLOW CONTROLLER
AD	AQUASTAT, STRAP ON BULB
CO2	CARBON DIOXIDE SENSOR - WALL MOUNTED
CO2D	CARBON DIOXIDE SENSOR - DUCT MOUNTED
CO	CARBON MONOXIDE SENSOR - WALL MOUNTED
CO2D	CARBON MONOXIDE SENSOR - DUCT MOUNTED
CS	CURRENT SWITCH
CT	CURRENT TRANSMITTER
DM	DAMPER - INLET VANES
DM	DAMPER - OPPOSED BLADE
DM	DAMPER - PARALLEL BLADE
M	DAMPER MOTOR
M	DAMPER MOTOR W/ POSITIVE POSITIONER
DP1	DIFFERENTIAL PRESSURE TRANSMITTER
DPS	DIFFERENTIAL PRESSURE SWITCH
EP	ELECTRIC-PNEUMATIC RELAY
EP1	ELECTRIC TO PNEUMATIC TRANSDUCER
CM	FIRE ALARM SYSTEM, ADDRESSABLE CONTROL MODULE
CM	FIRE ALARM SYSTEM, ADDRESSABLE INTERFACE MODULE
FMS	FLOW MEASURING STATION
FM	FLOW METER
FS	FLOW SWITCH
FZ	FREEZESTAT
F	GAUGE - FLOW
P	GAUGE - PRESSURE
T	GAUGE - TEMPERATURE
G	GUARD FOR STAT OR SENSOR
H	HUMIDIFIER
H	HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWINGS)
H	HUMIDITY SENSOR, DUCT MOUNTED
LVL	LEVEL SWITCH OR TRANSMITTER
LS	LIMIT SWITCH
---	LINE - ELECTRIC
---	LINE - PNEUMATIC
M	MAIN CONTROL AIR SUPPLY
MS	MOTOR STARTER
OS	OCCUPANCY SENSOR
P	PILOT LIGHT OR BEACON R - RED LENS A - AMBER LENS B - BLUE LENS G - GREEN LENS
PE	PNEUMATIC-ELECTRIC SWITCH
PS	PRESSURE SWITCH
PT	PRESSURE TRANSMITTER
R	RELAY, ELECTRIC
N	SELECTOR SWITCH, (N=NUMBER OF POSITIONS)
A	SIGNAL - DDC/BAS, ANALOG INPUT
AO	SIGNAL - DDC/BAS, ANALOG OUTPUT
D	SIGNAL - DDC/BAS, DIGITAL INPUT
DO	SIGNAL - DDC/BAS, DIGITAL OUTPUT
A	SIGNAL - PACKAGED EQUIPMENT, ANALOG INPUT
AO	SIGNAL - PACKAGED EQUIPMENT, ANALOG OUTPUT
D	SIGNAL - PACKAGED EQUIPMENT, DIGITAL INPUT
DO	SIGNAL - PACKAGED EQUIPMENT, DIGITAL OUTPUT

**NOTES:**

- SOME SYMBOLS & ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.
- REFER TO MECHANICAL STANDARDS ON DRAWING M01 FOR ADDITIONAL SYMBOLS & ABBREVIATIONS THAT MAY BE USED ON TEMPERATURE CONTROL DRAWINGS.

**SCHEMATIC SYMBOLS (CONT.)**

SYMBOL	DESCRIPTION
DD	SMOKE DETECTOR - DUCT MOUNTED
SD	SMOKE DETECTOR - SPACE MOUNTED
S/S	START/STOP RELAY
SP1	STATIC PRESSURE TRANSMITTER
SP	STATIC PRESSURE SENSOR OR PROBE
SW	SWITCH
T	TEMPERATURE SENSOR - RIGID ELEMENT IN WELL
T	TEMPERATURE SENSOR - STRAP ON BULB
T	TEMPERATURE SENSOR - DUCT MOUNTED AVG ELEMENT
T	TEMPERATURE SENSOR - DUCT MOUNTED RIGID ELEMENT
T	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)
T <sub>N</sub>	THERMOSTAT FOR NIGHT SETBACK
THR	TIMER SWITCH
XF	TRANSFORMER
2V	VALVE - 2 WAY CONTROL VALVE
3V	VALVE - 3 WAY CONTROL VALVE
2V	VALVE - 2 WAY CONTROL W/ POSITIONER
3V	VALVE - 3 WAY CONTROL W/ POSITIONER
VFC	VARIABLE FREQUENCY CONTROLLER
VS	VELOCITY SENSOR
VB	VIBRATION SWITCH
V	VOLTAGE SENSOR

**WIRING SYMBOLS**

SYMBOL	DESCRIPTION
[ ]	AUDIBLE DEVICE (AS DEFINED ON TC DRAWINGS)
M/S	COIL - MOTOR STARTER CONTACTOR
R	COIL - RELAY
TR	COIL - TIME DELAY RELAY
VSD	COIL - VARIABLE SPEED DRIVE CONTACTOR
EP	COIL - EP OR SOLENOID VALVE
C	CONTACT - INSTANT OPERATING, NO
C	CONTACT - INSTANT OPERATING, NC
C	CONTACT - TIMED AFTER COIL IS ENERGIZED, NCTO
C	CONTACT - TIMED AFTER COIL IS ENERGIZED, NCTO
C	CONTACT - TIMED AFTER COIL IS DE-ENERGIZED, NOTO
C	CONTACT - TIMED AFTER COIL IS DE-ENERGIZED, NCTO
G	GROUND
M	MOTOR, SINGLE PHASE
P	PILOT LIGHT OR BEACON R - RED LENS A - AMBER LENS B - BLUE LENS G - GREEN LENS
P	PILOT LIGHT, WITH PUSH-TO-TEST
P	PUSH BUTTON - MOMENTARY CONTACT, NO
P	PUSH BUTTON - MOMENTARY CONTACT, NC
P	PUSH BUTTON - MOMENTARY CONTACT, NO & NC
P	PUSH BUTTON - MOMENTARY, NO (MUSHROOM HEAD)
P	PUSH BUTTON - MOMENTARY, NC (MUSHROOM HEAD)

**WIRING SYMBOLS (CONT.)**

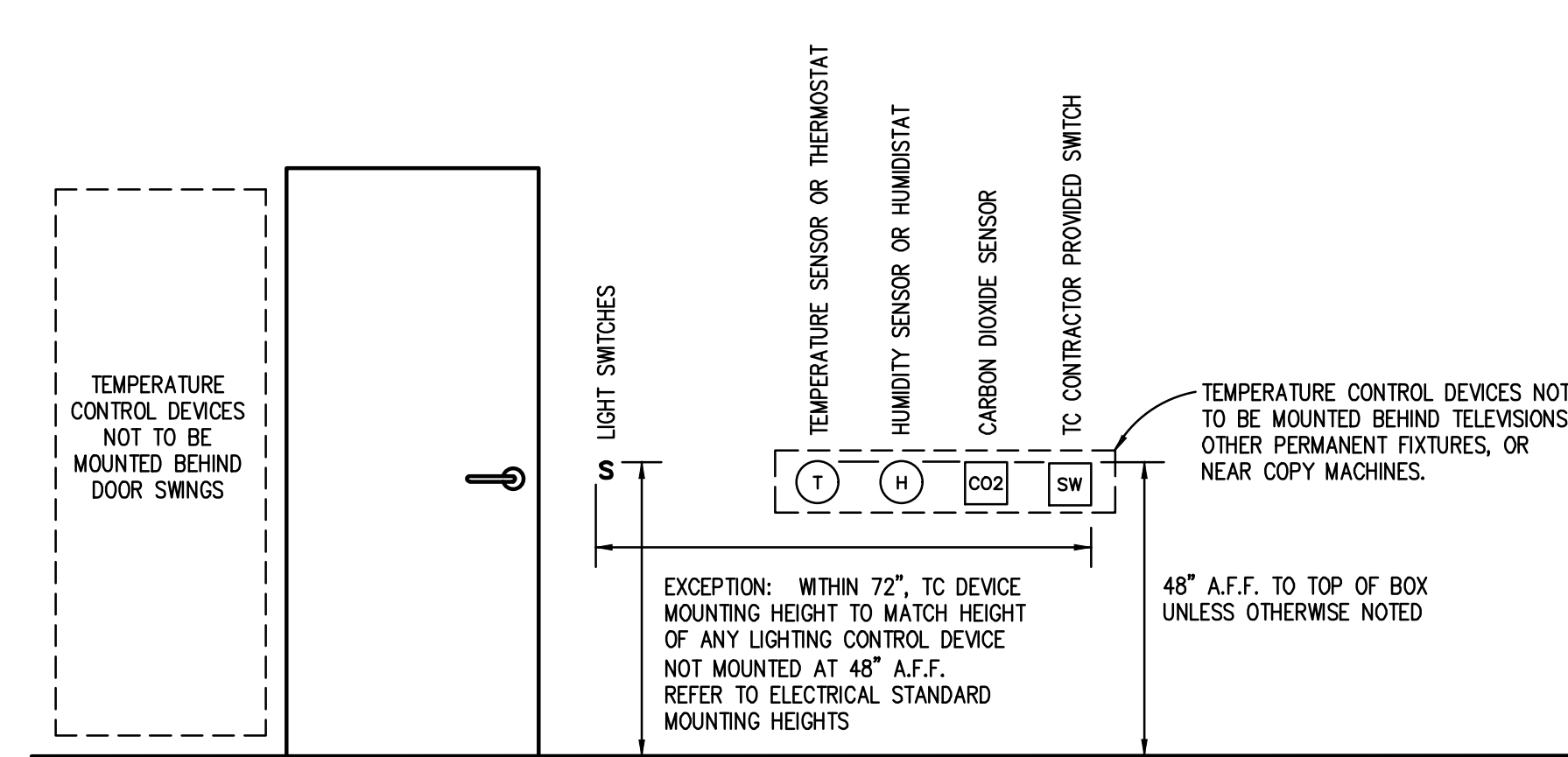
SYMBOL	DESCRIPTION
[ ]	SWITCH - 2 POSITION SELECTOR
[ ]	SWITCH - 3 POSITION SELECTOR HAND/OFF/AUTO
[ ]	SWITCH - FLOW (AIR, WATER, ETC.), NO
[ ]	SWITCH - FLOW (AIR, WATER, ETC.), NC
[ ]	SWITCH - LIMIT, NO
[ ]	SWITCH - LIMIT, NO, HELD CLOSED
[ ]	SWITCH - LIMIT, NC
[ ]	SWITCH - LIMIT, NO, HELD OPEN
[ ]	SWITCH - LIQUID LEVEL, NO
[ ]	SWITCH - LIQUID LEVEL, NC
[ ]	SWITCH - MANUAL SPST, NO
[ ]	SWITCH - MANUAL DPST, NO
[ ]	SWITCH - MANUAL SPST, NC
[ ]	SWITCH - MANUAL DPST, NC
[ ]	SWITCH - MANUAL SPDT
[ ]	SWITCH - MANUAL DPDT
[ ]	SWITCH - PRESSURE & VACUUM, NO
[ ]	SWITCH - PRESSURE & VACUUM, NC
[ ]	SWITCH - TEMPERATURE ACTUATED, NO
[ ]	SWITCH - TEMPERATURE ACTUATED, NC
[ ]	THERMAL OVERLOAD, SINGLE PHASE
[ ]	THERMAL OVERLOAD CONTACTS - 3 PHASE
[ ]	TRANSFORMER
[ ]	WIRE TERMINATION AT DEVICE
[ ]	WIRE TO WIRE TERMINATION
[ ]	WIRING NOT CONNECTED

**ABBREVIATIONS**

ABBREVIATION	DESCRIPTION
BAS	BUILDING AUTOMATION SYSTEM
DDC	DIRECT DIGITAL CONTROL
TC	TEMPERATURE CONTROLS
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NTO	NORMALLY OPEN TIMED OPEN
NCTO	NORMALLY OPEN TIMED CLOSED
NCTO	NORMALLY CLOSED TIMED OPEN
NCTO	NORMALLY CLOSED TIMED CLOSED
SPST	SINGLE POLE SINGLE THROW
SPDT	SINGLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DPDT	DOUBLE POLE DOUBLE THROW

**PNEUMATIC CONTROL SYMBOLS (ADDITIONAL)**

SYMBOL	DESCRIPTION
LA	LOAD ANALYZER
LR	LOW PRESSURE SELECTOR RELAY
PS	MANUAL GRADUAL POSITION SWITCH
PS	PNEUMATIC SWITCH
RR	RATIO RELAY
RC	RECEIVER CONTROLLER
[ ]	SWITCHED CONTROL AIR SUPPLY



**TC DEVICE STANDARD MOUNTING HEIGHTS DETAIL**

NO SCALE

**TC GENERAL NOTES**

- THESE GENERAL NOTES SHALL BE APPLICABLE FOR ALL TEMPERATURE CONTROL (TC) DRAWINGS.
- "PROVIDE" IS DEFINED AS FURNISH AND INSTALL.
- TEMPERATURE CONTROLS CONTRACTOR (TC CONTRACTOR) SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
- FOR TEMPERATURE CONTROL DRAWINGS ONLY: ALL DETAILED INFORMATION IDENTIFIED WITH HEAVY LINE WEIGHT SHALL BE PROVIDED BY TC CONTRACTOR. ALL OTHER INFORMATION IDENTIFIED WITH LIGHT LINE WEIGHT SHALL BE PROVIDED BY OTHER TRADES.
- ALL CONTROL SCHEMATICS AND WIRING DIAGRAMS ARE FOR THE CLARIFICATION OF EQUIPMENT INTERLOCKING FUNCTIONS AND THE INTERFACE OF VARIOUS CONTRACTORS' WORK AND SHALL NOT BE MISTAKEN AS SHOP DRAWINGS FOR ACTUAL INSTALLATION.
- TC CONTRACTOR SHALL PROVIDE DDC CONTROLLERS AS REQUIRED TO MEET INTENT OF DESIGN DOCUMENTS. REFER TO THE PLANS FOR THE DDC FUNCTIONS THAT APPLY TO EACH MECHANICAL SYSTEM.
- ALL TC PROVIDED COMPONENTS AND ALL TC CONTRACTOR INSTALLED WIRING SHALL BE LABELED PER SPECIFICATIONS.
- ALL WIRING AND SYSTEM CONTROL VOLTAGES SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATION AND THE ELECTRICAL SPECIFICATIONS.
- VARIABLE FREQUENCY CONTROLLER, FAN AND PUMP MOTOR STARTERS, STARTER WIRING, CONTROL VOLTAGE TRANSFORMERS AND ASSOCIATED POWER WIRING SHALL BE PROVIDED BY OTHER TRADES.
- DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED AND WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. ELECTRICAL SHALL PROVIDE FIRE ALARM SYSTEM CONTROL MODULES FOR REQUIRED SAFETIES TO MOTOR STARTERS OR VFC'S AS INDICATED. CONTROL MODULES SHALL BE LOCATED NEAR RESPECTIVE MOTOR STARTERS OR VFCs. TC CONTRACTOR SHALL PROVIDE INTERLOCK WIRING FROM CONTROL MODULES TO MOTOR STARTERS OR VFCs.
- ALL DDC AND CONTROL INTERLOCK WIRING SHALL BE BY TC CONTRACTOR UNLESS OTHERWISE NOTED. TC CONTRACTOR SHALL COORDINATE WITH VFC AND MOTOR STARTER SUPPLIERS TO DETERMINE EXACT WIRING REQUIREMENTS AND TERMINATION POINTS.
- ALL DDC AND CONTROL INTERLOCK WIRING REQUIREMENTS SHALL BE INSTALLED WITHOUT INTERMEDIATE STOPS. WIRE SPLICING AT INTERMEDIATE TERMINAL STRIPS IS NOT ACCEPTABLE.
- ALL ELECTRICAL WIRING AND RACEWAY SYSTEMS SHALL COMPLY WITH ELECTRICAL SPECIFICATION REQUIREMENTS. WHERE RACEWAY IS REQUIRED, TWO SEPARATE ELECTRICAL RACEWAY SYSTEMS SHALL BE PROVIDED: ONE FOR 120V WIRING AND THE OTHER FOR 24V WIRING.
- TC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER SUPPLIES REQUIRED FOR TC SYSTEM UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL PANEL SCHEDULES FOR SPARE CIRCUITS OR CIRCUITS DEDICATED TO TEMPERATURE CONTROLS. COORDINATE CIRCUIT USE WITH ELECTRICAL CONTRACTOR.
- TC CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL FIELD MOUNTED COMPONENTS.
- REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES. PROVIDE WALL MOUNTED DEVICE GUARDS WHERE INDICATED ON TC DETAILS OR AT SPECIFIC LOCATIONS INDICATED ON MECHANICAL FLOOR PLANS.
- TC CONTRACTOR SHALL PROVIDE AUXILIARY PANELS FOR REQUIRED PANEL MOUNTED EQUIPMENT SUCH AS RELAYS, TRANSDUCERS, CONTROL TRANSFORMERS, ETC. AUXILIARY PANELS SHALL BE LOCATED NEXT TO ASSOCIATED DDC PANEL. DEPENDING ON WIRE QUANTITY OR COMPLEXITY, PROVIDE CONDUITS BETWEEN PANELS OR WIRING THROUGH WITH CONDUIT STRIPS ABOVE ALL ASSOCIATED PANELS.
- REMOTELY MOUNTED FIELD DEVICES SUCH AS RELAYS, CONTROL TRANSFORMERS, ETC., SHALL BE HOUSED IN AN ENCLOSURE PROVIDED BY THE TC CONTRACTOR.
- CONTROL TRANSFORMERS WHEN REQUIRED SHALL BE SIZED FOR 150% OF ACTUAL LOAD.
- FREEZESTATS SHALL BE MOUNTED ON UPSTREAM FACE OF COOLING COILS. FREEZESTAT QUANTITY SHALL BE ONE PER 20 SQ. FT. OF CROSS SECTIONAL AREA.
- CURRENT SWITCHES USED FOR OPERATIONAL STATUS SHALL HAVE CURRENT THRESHOLD SETPOINT ADJUSTED TO INDICATE BELT OR DRIVE FAILURE.
- ALL CONTROL VALVES, CONTROL DAMPERS AND ASSOCIATED CONTROL ACTUATORS IDENTIFIED ON TC DRAWINGS SHALL BE FURNISHED BY TC CONTRACTOR UNLESS OTHERWISE NOTED. DAMPER SIZE AND LOCATIONS ARE INDICATED ON MECHANICAL FLOOR PLAN DRAWINGS.
- ALL CONTROL VALVES AND DAMPERS FURNISHED BY THE TC CONTRACTOR SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. ALL PIPE PENETRATIONS AND BASIC FITTINGS REQUIRED FOR SENSOR INSTALLATIONS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
- DAMPER ACTUATORS SHALL BE INSTALLED BY TC CONTRACTOR WHEN FURNISHED BY TC CONTRACTOR.
- ALL INSTRUMENTATION TUBING REQUIRED FOR DPS AND DPT COMPONENT INSTALLATIONS SHALL BE PROVIDED BY TC CONTRACTOR.
- TC CONTRACTOR SHALL FIELD MOUNT ALL REQUIRED "SHIPPED LOOSE" PACKAGED CONTROL COMPONENTS FURNISHED BY EQUIPMENT SUPPLIERS WHERE INDICATED. ALL REQUIRED 24V AND 120V FIELD WIRING SHALL BE PROVIDED BY TC CONTRACTOR UNLESS NOTED OTHERWISE. TC CONTRACTOR SHALL COORDINATE SPECIFIC SYSTEM WIRING REQUIREMENTS WITH PACKAGED EQUIPMENT SUPPLIERS.

**DRAWING SET INFO**

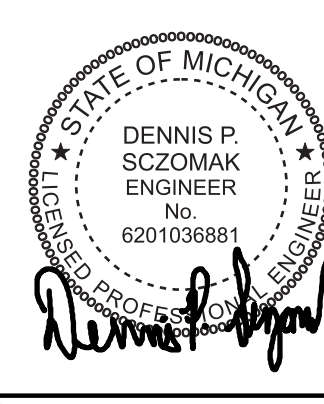
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**ADDENDUM/BULLETIN REVISIONS**

DATE	DESCRIPTION
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SCALE	NONE
DRAWN BY	KEP
CHECKED BY	WEK
APPROVED BY	WEK

SHEET NO.	M701
A/E PROJECT NO.	2022081
CMU PROJECT NO.	655113



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**ELECTRICAL SYMBOL LIST**

(NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FX (NL)	FIXTURE TYPE (NL INDICATES NIGHT LIGHT)	TWC	TWO-WAY COMMUNICATION SYSTEM CALL STATION	CP	CONTROL PANEL	SC	SECURITY CAMERA
[ ]	LIGHTING FIXTURE	TWCD	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER	M	MOTOR	SD	SMOKE DETECTOR
[ ]	DIRECT/INDIRECT LIGHTING FIXTURE	TWCA	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR & COMMUNICATION PANEL	VFC	VARIABLE FREQUENCY CONTROLLER	DD	DUCT SMOKE DETECTOR
[ ]	EMERGENCY FIXTURE	TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP	MC	MAGNETIC CONTROLLER	CD	CARBON MONOXIDE DETECTOR
[ ]	LIGHTING FIXTURE	TWCDP	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER POWER SUPPLY WITH BATTERY BACK-UP	CMC	COMBINATION MAGNETIC CONTROLLER	RT	REMOTE TEST STATION (FOR DUCT DETECTOR)
[ ]	WALL MOUNTED LIGHTING FIXTURE	RGP	REMOTE GENERATOR ANNUNCIATOR PANEL	NF	NON-FUSIBLE DISCONNECT SWITCH	TD	THERMAL DETECTOR
[ ]	LIGHTING FIXTURE	ATS	AUTOMATIC TRANSFER SWITCH	FD	FUSIBLE DISCONNECT SWITCH	BD	PROJECTED BEAM DETECTOR
[ ]	DIRECTIONAL LIGHTING FIXTURE	UPS	UNINTERRUPTIBLE POWER SUPPLY	CB	ENCLOSED CIRCUIT BREAKER	FB	FIRE ALARM BELL
[ ]	PENDANT LIGHTING FIXTURE	CSX	LOW VOLTAGE CONTROL STATION *X* INDICATES TYPE	PBS	PUSH BUTTON STATION	FN	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
[ ]	WALL SCONCE	SR	SINGLE / DUPLEX RECEPTACLE OUTLET *X* INDICATES TYPE	JB	JUNCTION BOX	FX	FIRE ALARM VISUAL NOTIFICATION APPLIANCE *XX* INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	LIGHTING TRACK	SR	SINGLE / DUPLEX RECEPTACLE OUTLET CONTROLLED BY AUTOMATIC CONTROL DEVICE/SYSTEM	HR	HANDHOLE	FX	FIRE ALARM COMBINATION VISUAL / AUDIBLE *XX* INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	TRACK LIGHTING FIXTURE	SR	QUAD RECEPTACLE OUTLET	CS	CONDUIT SLEEVE WITH BUSHINGS (LENGTH AS REQUIRED) *X* INDICATES CONDUIT SIZE	FX	FIRE ALARM COMBINATION VISUAL / AUDIBLE NOTIFICATION APPLIANCE - CEILING MOUNTED *XX* INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	POLE MOUNTED LIGHTING FIXTURE	SR	ABOVE COUNTER DUPLEX RECEPTACLE OUTLET (SIMILAR FOR TAMPER RESISTANT, QUADS, EMERGENCY AND OFCI RECEPTACLE OUTLETS)	CU	CONDUIT UP	FX	FIRE ALARM VISUAL NOTIFICATION APPLIANCE CEILING MOUNTED *XX* INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[ ]	POLE MOUNTED LIGHTING FIXTURE - POST TOP	SR	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET	CD	CONDUIT DOWN	FX	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE - CEILING MOUNTED
[ ]	BOLLARD LIGHTING FIXTURE	SR	DEAD FRONT GROUND FAULT CIRCUIT INTERRUPTER	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET	F	FIREFIGHTERS PHONE JACK
[ ]	EMERGENCY LIGHTING UNIT	SR	DUPLEX EMERGENCY RECEPTACLE OUTLET	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET	FA	FIRE ALARM CONTROL PANEL
[ ]	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)	SR	DUPLEX RECEPTACLE OUTLET - PROVIDED BY FURNITURE	EB	EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET	FAA	FIRE ALARM ANNUNCIATOR PANEL
[ ]	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)	SR	QUAD RECEPTACLE OUTLET - PROVIDED BY FURNITURE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	HP	HORSEPOWER
[ ]	EXIT LIGHTING FIXTURE - WALL MOUNTED	SR	ABOVE COUNTER DUPLEX USB RECEPTACLE OUTLET - PROVIDED BY FURNITURE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	HZ	HERTZ
[ ]	EXIT/EMERGENCY LIGHTING COMBO	SR	DUPLEX UPS RECEPTACLE OUTLET	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	IG	ISOLATED GROUND
[ ]	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH	SR	DUPLEX RECEPTACLE OUTLET WITH 2 USB PORTS	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	JB	JUNCTION BOX
[ ]	AUTOMATIC LOAD CONTROL RELAY	SR	4 PORT USB CHARGING STATION	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	KA	THOUSAND AMP
[ ]	LIGHTING CONTROL DEVICE - REFER TO LIGHTING CONTROL SCHEDULE	SR	CEILING MOUNTED DUPLEX/QUAD RECEPTACLE OUTLET	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	KV	KILOVOLT
[ ]	ROOM CONTROL DESIGNATION - REFER TO LIGHTING CONTROL SCHEDULE	SR	WALL/CEILING MOUNTED SPECIAL RECEPTACLE OUTLET - REFER TO ELECTRICAL STANDARD SCHEDULES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	KVA	KILOVOLT - AMPERES
[ ]	SINGLE POLE TOGGLE SWITCH	SR	TELECOMMUNICATION BACKBOARD	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	KW	KILOWATT
[ ]	TWO POLE TOGGLE SWITCH	SR	TELECOMMUNICATION GROUNDING BUS BAR	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	KWH	KILOWATT - HOURS
[ ]	3 WAY TOGGLE SWITCH	SR	TELECOMMUNICATION MAIN GROUNDING BUS BAR	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	LA	LIGHTNING ARRESTOR
[ ]	4 WAY TOGGLE SWITCH	SR	INTERCOM OUTLET	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	LP	LIGHTING PANEL
[ ]	KEY OPERATED SWITCH	SR	SPEAKER	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	LDP	LIGHTING DISTRIBUTION PANEL
[ ]	3 WAY KEY OPERATED SWITCH	SR	SPEAKER - WALL MOUNTED	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MAX	MAXIMUM
[ ]	4 WAY KEY OPERATED SWITCH	SR	MICROPHONE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MCA	MINIMUM CIRCUIT AMPACITY
[ ]	DIMMER SWITCH	SR	VOLUME CONTROL/STATION SELECTOR	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MCB	MINIMUM CIRCUIT BREAKER
[ ]	3 WAY DIMMER SWITCH	SR	SIGNALING BELL	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MCC	MINIMUM CIRCUIT CENTER
[ ]	DIMMER OCCUPANCY SENSOR SWITCH	SR	SINGLE FACE CLOCK - CEILING MOUNTED	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MDC	MINIMUM DISTRIBUTION PANEL
[ ]	LOW VOLTAGE DIMMER SWITCH	SR	SINGLE FACE CLOCK - WALL MOUNTED	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MECH	MECHANICAL
[ ]	PILOT SWITCH	SR	DOUBLE FACE CLOCK - CEILING MOUNTED	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MIN	MINIMUM
		SR	DOUBLE FACE COMBINATION CLOCK/SPEAKER CEILING MOUNTED	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MISC.	MISCELLANEOUS
		SR	DOUBLE FACE CLOCK - WALL MOUNTED	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MLO	MAIN LUGS ONLY
		SR	DOUBLE FACE COMBINATION CLOCK/SPEAKER WALL MOUNTED	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MOP	MAXIMUM OVERCURRENT PROTECTION
		SR	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MTD	MOUNTED
		SR	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MTG	MOUNTING
		SR	FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	MTR	MOTOR
		SR	ACCESS FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	N	NEUTRAL
		SR	CORD REEL *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	NC	NORMALLY CLOSED
		SR	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	NEC	NATIONAL ELECTRICAL CODE
		SR	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	NF	NON-FUSIBLE
		SR	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	NI	NOT IN CONTRACT
		SR	DIGITAL TIME SWITCH	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	NL	NIGHT LIGHT
		SR	TIME CLOCK	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	NO	NORMALLY OPEN
		SR	LOW VOLTAGE SWITCH	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE	NTS	NOT TO SCALE
		SR	OCCUPANCY SENSOR REFER TO ELECTRICAL STANDARD SCHEDULES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	OCCUPANCY SENSOR	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	OCCUPANCY SENSOR *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	POKE-THROUGH ASSEMBLY *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ACCESS FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	CORD REEL *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DIGITAL TIME SWITCH	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ACCESS FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	CORD REEL *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
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		SR	FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ACCESS FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	CORD REEL *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DIGITAL TIME SWITCH	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ACCESS FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	CORD REEL *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DIGITAL TIME SWITCH	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ACCESS FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	CORD REEL *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DIGITAL TIME SWITCH	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	ACCESS FLOOR SERVICE FITTING *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	CORD REEL *X* INDICATES TYPE	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
		SR	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
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		SR	DIGITAL TIME SWITCH	EB	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET *X* INDICATES TYPE		
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		SR	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION	EB			



FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE							KEYED NOTES
OVERCURRENT DEVICE RATING (AMPERES)	COPPER CONDUCTORS						
	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE				
	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH, 1N, 1G, 2PH, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)	
15-20	12	12	3/4"	3/4"	3/4"	3/4"	
25-30	10	10	3/4"	3/4"	3/4"	3/4"	
35-40	8	10	3/4"	3/4"	3/4"	3/4"	
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	1
60	6 (4)	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")	1
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"	
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	1
90-100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	1
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	1
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"	
175	2/0	6	-	2"	2"	2"	
200	3/0	6	-	2"	2"	2 1/2"	
225	4/0	4	-	2"	2"	2 1/2"	
250	250	4	-	2 1/2"	2 1/2"	2 1/2"	
300	350	4	-	2 1/2"	2 1/2"	3"	
350	500	3	-	3"	3"	3"	
400	500	3	-	3"	3"	3"	

GENERAL NOTES:  
1. CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE.  
2. CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION.  
3. CONDUCTORS ARE BASED ON THHN/THHW UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW.  
4. CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT.  
5. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES.  
6. SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE.  
7. OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY.  
8. SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.

KEYED NOTES:  
1. CONDUCTORS ARE BASED ON 90C, 600V, INSULATED WIRE APPLIED AT 75C FOR TERMINATION RATED 60/75C OR 75C. FOR TERMINATION RATED AT 60C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.

FLOOR SERVICE FITTING ASSEMBLY SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER (SEE NOTE #2)	DEVICE CONFIGURATION	FLANGE/COVER MATERIAL & COLOR	SERVICE PLATE TYPE	MINIMUM DEPTH	MAXIMUM CONDUIT
FB2	MULTI FUNCTION TWO GANG, MULTI SERVICE, STAMPED STEEL FOR RAISED FLOOR APPLICATIONS, RECESSED FLOOR BOX, 1 DUPLEX RECEPTACLES AND 1 TELECOM OUTLETS, CARPET/TILE INSERT COVER.	EXISTING WIREMOLD RFB2	2D	BK	FR	2 1/2"	1 1/4"
FB4A	MULTI FUNCTION FOUR GANG, MULTI SERVICE, STAMPED STEEL FOR RAISED FLOOR APPLICATIONS, RECESSED FLOOR BOX, 2 DUPLEX RECEPTACLES AND 2 TELECOM OUTLETS, CARPET/TILE INSERT COVER.	EXISTING WIREMOLD RFB4E	2D / 2T	AL	FR	3 1/2"	2"
FB4C	MULTI FUNCTION FOUR GANG, MULTI SERVICE, STAMPED STEEL FOR SLAB ON GRADE APPLICATIONS, RECESSED FLOOR BOX, 2 DUPLEX RECEPTACLES AND 2 TELECOM OUTLETS, CARPET/TILE INSERT COVER.	EXISTING WIREMOLD RFB4E-OC	2D / 2T	AL	FR	3 1/2"	2"

GENERAL NOTES:  
1. PROVIDE 1 1/4" FROM EACH TELECOM FLOOR BOX (GANG) TO ACCESSIBLE LOCATION IN CEILING.  
2. WHERE BOXES ARE RELOCATED FROM DEMOLITION, FLOOR BOX AND ENTIRE FLOOR TILE SHALL BE RELOCATED. COORDINATE FLOOR TILE WORK WITH ARCHITECTURAL TRADES.  
ABBREVIATIONS:  
PF = PARTITION FEED BS = BRASS GY = GRAY CONCRETE FR = FLIP LID/RECTANGULAR  
D = DUPLEX RECEPTACLE AL = ALUMINUM BZ = BRONZE SL = SLIDES  
T = 2 TELECOM OPENINGS BK = BLACK NK = NICKEL F = FLIP COVER

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS						
BRANCH CIRCUIT RATING (A)	WIRE SIZE (AWG)	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)				
		120V	208V	240V	277V	480V
20A	12	83	143	165	191	331
	10	128	222	256	295	511
	8	201	348	402	464	804
	6	313	542	625	721	1250
30A	10	85	148	170	197	341
	8	134	232	268	309	536
	6	208	361	417	481	833
	4	313	542	625	721	1250

GENERAL NOTES:  
1. THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.  
2. PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.  
3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.  
4. LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 84% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

OCCUPANCY SENSOR LEGEND	
TAG	DESCRIPTION
A	360° CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
B	90° CEILING/WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
C	360° CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR
D	360° CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR
E	360° CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR - CORRIDOR OPTIMIZED
SoC	WALL SWITCH OCCUPANCY SENSOR
SoZ	WALL SWITCH OCCUPANCY SENSOR - DUAL LEVEL SWITCHING
Do	WALL DIMMER SWITCH OCCUPANCY SENSOR

TELECOMMUNICATIONS OUTLET SCHEDULE		
TAG	DESCRIPTION	REMARKS
1	1 DATA/VOICE	
2	2 DATA/VOICE	
3	3 DATA/VOICE	
4	4 DATA/VOICE	
5	5 DATA/VOICE	
6	6 DATA/VOICE	
TV 1	1 COAX	
TV 2	1 COAX + 1 DATA	
TV 3	1 COAX + 2 DATA	

GENERAL NOTES:  
1. REFER TO SPECIFICATIONS FOR TELECOMMUNICATION CABLE TYPE.

RACEWAY / CONDUCTOR / CABLE APPLICATION SCHEDULE																					
	WIRE	RACEWAY	CABLE/CORD																		
			COOPER, TYPE THHN/THWN-2	COOPER, TYPE XHHW-2	ELECTRICAL METALLIC TUBING (EMT)	INTERMEDIATE METAL CONDUIT (IMC)	RIGID STEEL CONDUIT (RSC)	FLEXIBLE METAL CONDUIT (FMC)	SURFACE RACEWAY	CABLE TRAY	METAL CLAD TYPE CABLE WITH INSULATED GROUND WIRE (TYPE MC)	TRAY CABLE FOR EXPOSED RUNS (TYPE TC-ER)	POWER LIMITED CABLE								
BRANCH CIRCUITS - INTERIOR																					
FEEDERS - INTERIOR																					
BRANCH CIRCUITS - INTERIOR																					
SPECIAL APPLICATIONS																					

GENERAL NOTES:  
1. TRANSITION FROM PVC/HDPE AND PROVIDE RIGID STEEL OR RTRC SWEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, CONCRETE BASES, AND ASPHALT.  
2. REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC/AC CABLE INSTALLATION.  
3. EMT SHALL NOT BE USED ON THE EXTERIOR OF A BUILDING OR IN AREAS SUBJECT TO DAMAGE BELOW 10' AFF.  
4. INSTALL SURFACE RACEWAYS ONLY WHERE INDICATED ON DRAWINGS.

KEYED NOTES:  
1. PULLING LUBRICANT SHALL NOT BE USED.

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

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ELECTRICAL  
ELECTRICAL STANDARD SCHEDULES

DRAWING SET INFO

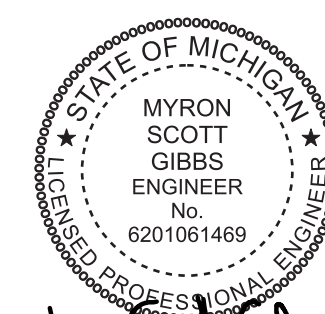
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**2022081**  
CMU PROJECT NO.  
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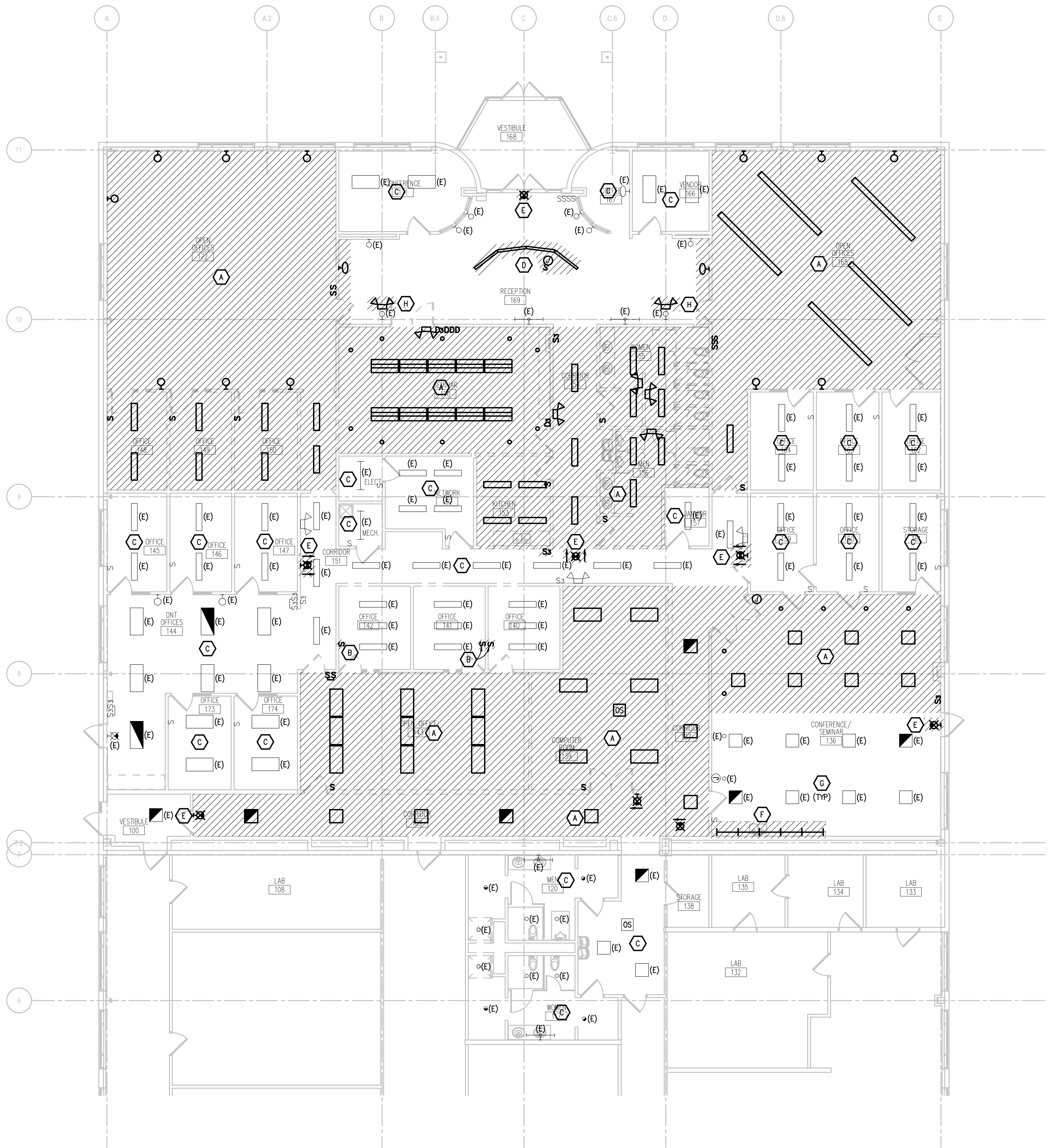
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**ELECTRICAL DEMOLITION GENERAL NOTES:**

- VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
- EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
- COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
- MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING TOLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
- PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
- VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

**DEMOLITION KEY NOTES:**

- REMOVE ALL LIGHT FIXTURES. REMOVE ALL EBUs. REMOVE ALL LIGHTING CONTROLS. LIGHTING BRANCH CIRCUITS TO BE REUSED IN NEW WORK.
- REMOVE LIGHT SWITCH. LIGHTING CONTROLS TO BE RELOCATED IN NEW WORK.
- EXISTING LIGHTING AND CONTROLS TO REMAIN.
- REMOVE ACCENT LIGHTING AT DEMOLISHED DECK. REMOVE POWER AND CONTROLS COMPLETE TO SOURCE. LIGHTING BRANCH CIRCUIT TO BE REUSED IN NEW WORK.
- REMOVE EXIT SIGN. BRANCH CIRCUITS PREVIOUSLY FEEDING SIGNS SHALL BE REUSED IN NEW WORK TO FEED NEW SIGNS IN SIMILAR LOCATIONS. REFER TO NEW WORK PLANS.
- REFER TO ARCHITECTURAL ALTERNATE. BASE BID - REMOVE AND SALVAGE UNDER CABINET LIGHT FIXTURES AND ASSOCIATED WIRING AT DEMOLISHED MILLWORK. EXISTING CONTROL SWITCH TO REMAIN. ALTERNATE - LIGHT FIXTURES AND CONTROLS TO REMAIN.
- PROTECT LIGHT FIXTURES IN EXISTING TO REMAIN SECTION OF CEILING SPACE. REMOVE EXISTING CONTROL DEVICE FOR REVISIONS IN NEW WORK.
- REMOVE EXISTING EBU AND ASSOCIATED CONDUIT AND WIRING COMPLETE.



**FIRST FLOOR ENLARGED LIGHTING DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"

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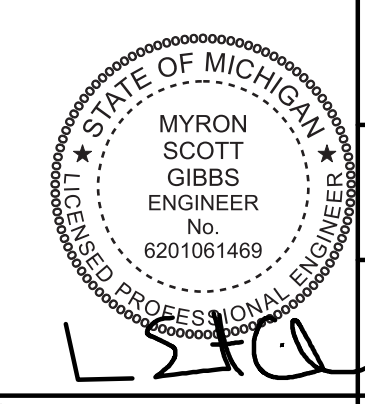
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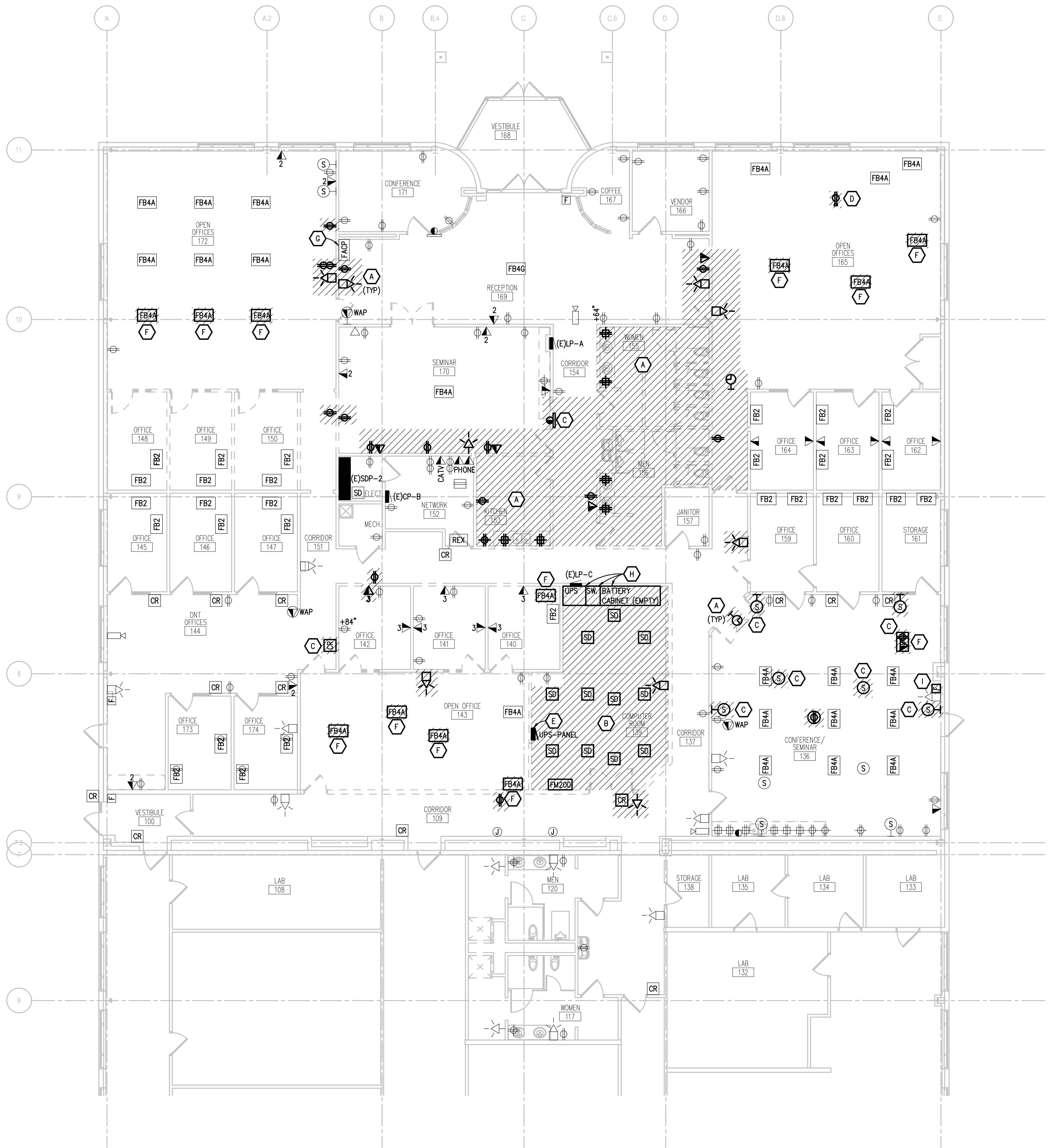
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**ELECTRICAL DEMOLITION GENERAL NOTES:**

- VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
- EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
- COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
- MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
- PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
- VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

**DEMOLITION KEY NOTES:**

- REMOVE ALL POWER, DATA, GLOCKS, SECURITY DEVICES, AND FIRE ALARM DEVICES ON DEMOLISHED WALLS AND ASSOCIATED CONDUIT, BOXES AND WIRING COMPLETE TO SOURCE OR NEAREST UPSTREAM DEVICE TO REMAIN.
- REMOVE ALL FM-200 SYSTEM COMPONENTS. TURN OVER ALL COMPONENTS TO CMU. REMOVE ALL SYSTEM ASSOCIATED DETECTORS IN CEILING AND UNDERFLOOR, AND ALL NOTIFICATION DEVICES COMPLETE AND TURN OVER TO CMU.
- REMOVE IP/PORT DEVICE AND ASSOCIATED CONDUIT AND WIRING COMPLETE TO SOURCE. IP/PORT DEVICE TO BE RELOCATED IN NEW WORK.
- REMOVE RECEPTACLE AND ASSOCIATED FLOOR PEDESTAL COMPLETE.
- REMOVE AND SALVAGE PANELBOARD FOR REUSE IN NEW WORK. MAINTAIN FEEDER AND ASSOCIATED CONDUIT FROM MEZZANINE FOR EXTENSION. REMOVE SECTION OF FEEDER AND CONDUIT IN CEILING SPACE AS REQUIRED FOR NEW WORK. REMOVE ALL BRANCH CIRCUIT CONDUITS AND WIRING ORIGINATING FROM THIS PANELBOARD. BRANCH CIRCUIT BREAKERS INSIDE OF PANELBOARD TO BE RE-USED IN NEW WORK OR REPLACED WITH NEW. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION. TURN OVER REMOVED AND UNUSED BREAKERS TO OWNER.
- REMOVE AND SALVAGE FLOOR BOX FOR RELOCATION IN NEW WORK. REMOVE FLOOR BOX AND ENTIRE FLOOR TILE. BOTH FLOOR BOX AND TILE TO BE RELOCATED. DISCONNECT ALL CONDUIT AND WIRING FROM BOX AND REMOVE COMPLETE TO SOURCE OR NEAREST DEVICE TO REMAIN.
- EXISTING MAIN FIRE ALARM CONTROL PANEL. CONTACT CLIFFORD GRIFTON AT JOI-SIMPLEX (248)755-9054 PRIOR TO BEGINNING FIRE ALARM REVISIONS.
- REMOVE LOCKED OUT TAGGED OUT UPS, SWITCH AND EMPTY BATTERY CABINET, AND ALL ASSOCIATED CONDUIT AND WIRING COMPLETE TO SOURCE.
- REMOVE AND SALVE FIRE ALARM PULL STATION FOR REUSE IN NEW WORK.



**FIRST FLOOR ENLARGED POWER DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"

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FIRST FLOOR ENLARGED POWER DEMOLITION PLAN

**DRAWING SET INFO**

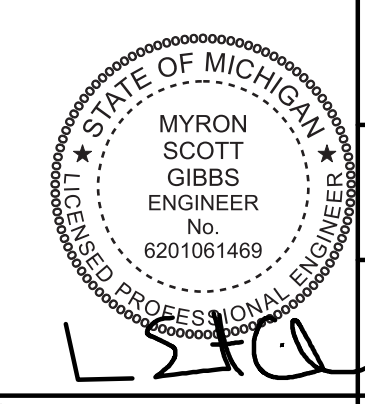
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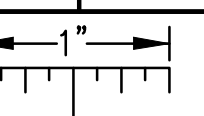
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CMU PROJECT NO.  
**655113**



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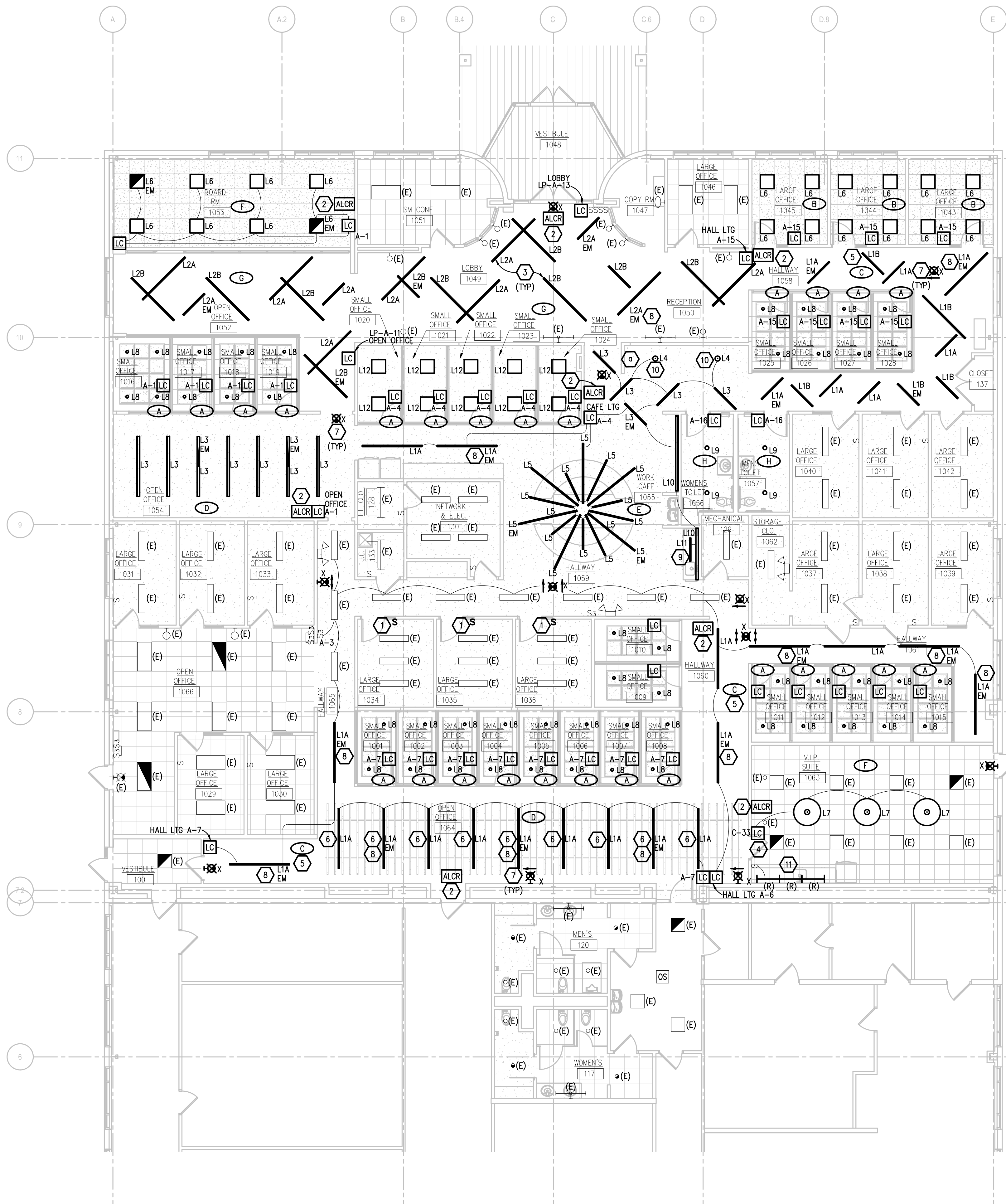


**ELECTRICAL GENERAL NOTES:**

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES. PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROL SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

**CONSTRUCTION KEY NOTES:**

- FISH EXISTING WALLS AND PROVIDE NEW BOX AND CONDUIT IN WALLS. RELOCATE LIGHTING CONTROL DEVICE SAVED FROM DEMOLITION TO NEW BOX. EXTEND ALL CONDUIT AND WIRING AS REQUIRED.
- PROVIDE AUTOMATIC LOAD CONTROL RELAY FOR FIRE ALARM TIE-IN OF LIGHTING.
- PENDANT MOUNT ALL LIGHT FIXTURES SUCH THAT BOTTOM OF FIXTURE IS APPROXIMATELY 10'-0" A.F.F. FOR ALL TYPE 'A' FIXTURE AND APPROXIMATELY 11'-0" FOR ALL TYPE 'B' FIXTURES.
- PROVIDE NEW LIGHTING CONTROLS IN SPACE. NEW CONTROLS SHALL CONTROL BOTH EXISTING AND NEW LIGHT FIXTURES IN SPACE. REFER TO DETAILS FOR PROGRAMMING.
- IN CORRIDOR SPACES, ACTIVATION OF ANY SENSOR SHALL ILLUMINATE ALL LIGHTING WITHIN SPACE.
- MOUNT L1A FIXTURE IN THIS AREA SUCH THAT BOTTOM OF FIXTURE IS AT PARALLEL ELEVATION OF ADJACENT BAFFLES.
- CONNECT EXIT SIGNS TO HOT LEG OF LIGHTING BRANCH CIRCUIT WITHIN SPACE.
- PROVIDE INTEGRAL EMERGENCY BATTERY PACK FOR (1)4' SECTION OF FIXTURE.
- LIGHT FIXTURES TO BE RECESSED AT SHELF. FIXTURES SHALL RUN ENTIRE LENGTH OF SHELF. DRIVERS TO MOUNT IN MECHANICAL 229. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND TRADES.
- COORDINATE FINAL LOCATION AND MOUNTING HEIGHT OF PENDANT LIGHT FIXTURE WITH BOOTH FURNITURE IN THE FIELD.
- REFER TO ARCHITECTURAL ALTERNATE. BASE BID - REMOUNT RELOCATED UNDERCABINET LIGHT FIXTURES SAVED FROM DEMOLITION AND RECONNECT TO EXISTING CONTROLS. EXTEND ALL WIRING AS REQUIRED. ALTERNATE - NO WORK.



**FIRST FLOOR ENLARGED LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"

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**ELECTRICAL**  
FIRST FLOOR ENLARGED LIGHTING PLAN

**DRAWING SET INFO**

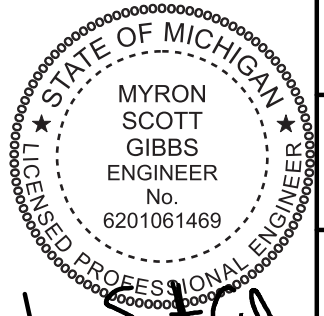
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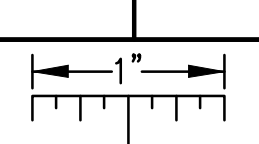
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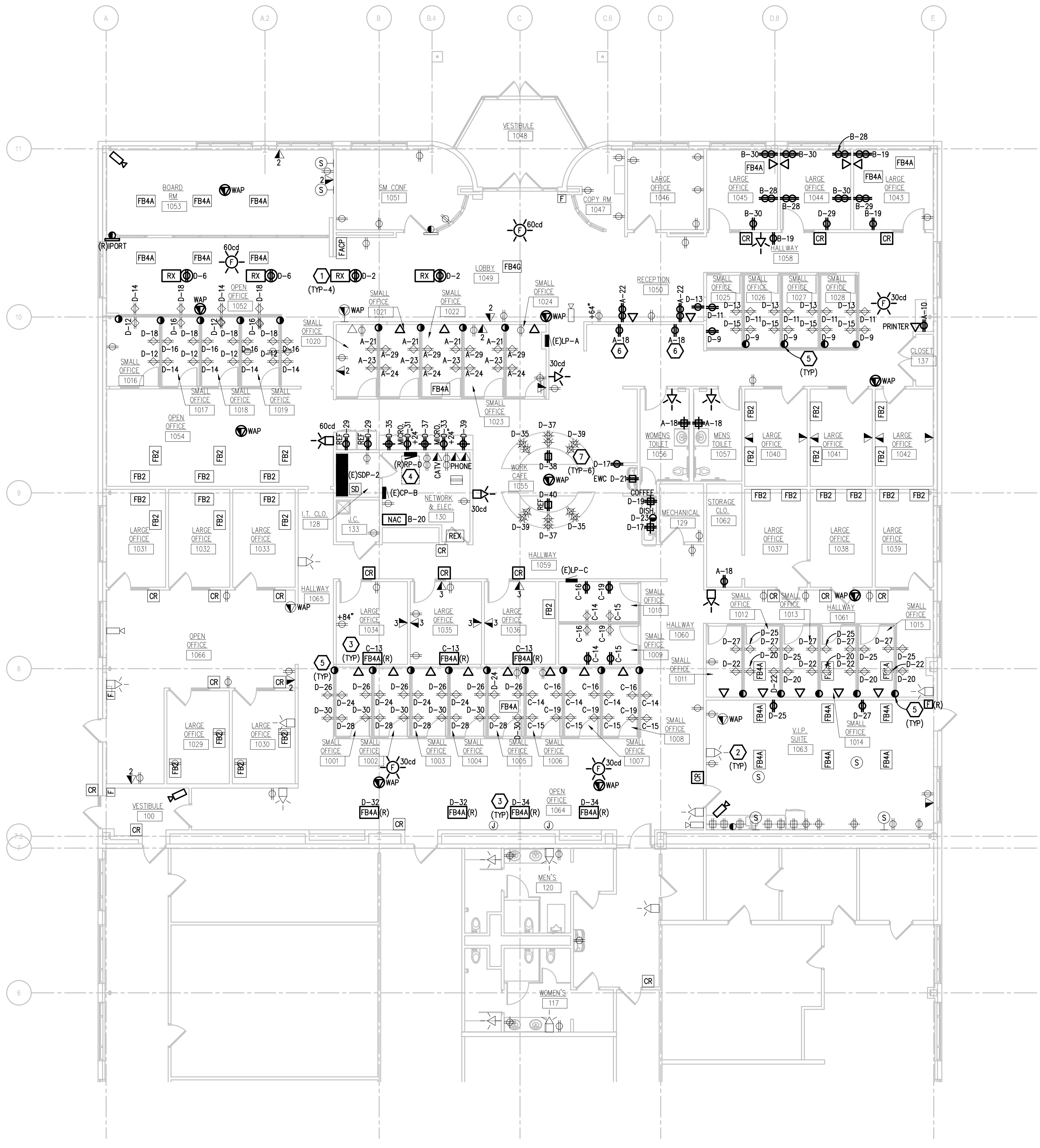


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**FIRST FLOOR ENLARGED POWER PLAN**  
SCALE: 1/8" = 1'-0"

**ELECTRICAL GENERAL NOTES:**

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
- THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.
- REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

**CONSTRUCTION KEY NOTES:**

- PROVIDE CEILING RECEPTACLE MOUNTED AT APPROXIMATELY 12"-0" A.F.F. PROVIDE CORD REEL WITH QUAD RECEPTACLE ON REEL/CORD REEL SHALL BE PART NUMBER: CD-04R20. MOUNT CORD REEL SUCH THAT BOTTOM OF UNIT IS APPROXIMATELY 11"-0" A.F.F. AND DEVICE BOX IS AT APPROXIMATELY 4'-0" A.F.F. COORDINATE FINAL MOUNTING HEIGHTS IN FIELD AND WITH FINAL FURNITURE LAYOUTS.
- UPDATE PROGRAMMING OF EXISTING FIRE ALARM DEVICE AS REQUIRED TO ACHIEVE FULL COVERAGE IN SPACE.
- RELOCATED ACCESS FLOOR BOX. EXISTING RECEPTACLE INSIDE SHALL BE CIRCUITED TO CIRCUITS AS INDICATED ON PLAN. REMOVE ANY DATA FROM BOX AND PROVIDE BLANK PLATE ON TELECOMMUNICATION SECTION.
- RELOCATE SALVAGED PANEL FROM DEMOLITION AND USE TO SERVE NEW CIRCUITS IN PROJECT. BRANCH CIRCUITS PREVIOUSLY FED FROM THIS PANEL TO BE RELOCATED TO OTHER GENERATOR FED PANELS.
- CONNECTION TO FURNITURE SYSTEM TO POWER INTEGRAL RECEPTACLES. PROVIDE CIRCUIT TO RECEPTACLES AS INDICATED. PROVIDE LOCKABLE 1-POLE DISCONNECT SWITCH IN CEILING SPACE FOR EACH BRANCH CIRCUIT IN FURNITURE. COORDINATE ALL DISCONNECT LOCATIONS WITH FINAL FURNITURE LAYOUT AND INSTALLER.
- COORDINATE FINAL RECEPTACLE LOCATION IN FIELD WITH BOOTH FURNITURE.
- USB RECEPTACLES AT CAFE MILLWORK ARE PROVIDED BY THE FURNITURE INSTALLER. CIRCUIT USB RECEPTACLES AS INDICATED.



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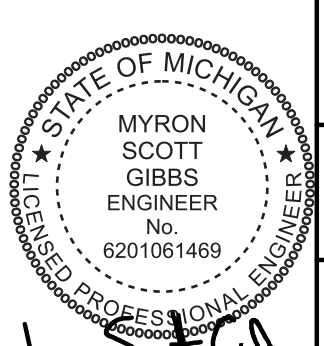
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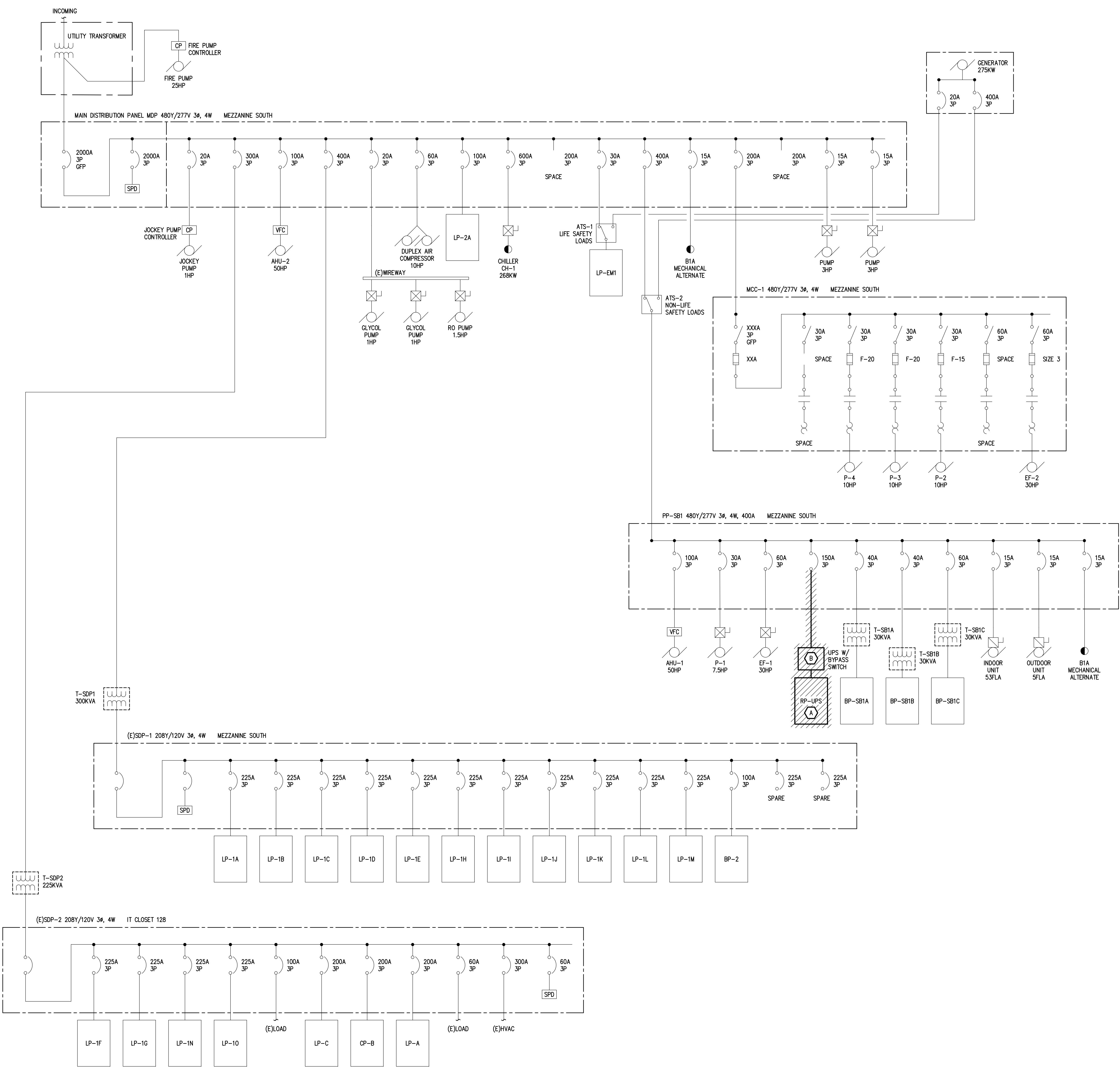
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**DIAGRAM GENERAL NOTES:**

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "TRANSFORMER CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- BASES OF DESIGN IS DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE CLEARANCES WITHIN THE SPACE PROVIDED.
- SELECTIVE COORDINATION (PER NEC ARTICLES 517.31(G), 700.32 AND 701.27) IS BASED ON DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. ELECTRICAL CONTRACTOR SHALL SUBMIT SELECTIVE COORDINATION STUDY WITH TIME CURRENT CHARACTERISTIC CURVES (AND TABLES FOR TESTED PAIR INSTANTANEOUS COORDINATION) FOR THE EMERGENCY SYSTEMS. ELECTRICAL CONTRACTORS SHALL RESERVE APPROVED SHOP DRAWINGS BACK FROM ENGINEER OF RECORD PRIOR TO PURCHASING OR INSTALLING ANY ELECTRICAL DISTRIBUTION EQUIPMENT. BREAKERS MUST BE COORDINATED WITH AUTOMATIC TRANSFER SWITCHES 3-CYCLE WITHSTAND RATING. ALTERNATE MANUFACTURERS SHALL MEET SELECTIVE COORDINATION CRITERIA AT NO ADDITIONAL COST TO THE PROJECT.
- VARIABLE FREQUENCY CONTROLLERS (VFC) FURNISHED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.

**DEMOLITION KEY NOTES:**

- REMOVE EXISTING PANELBOARD RP-UPS AND SAVE FOR RELOCATION IN NEW WORK. REMOVE ALL ASSOCIATED CONDUITS AND WIRING COMPLETE TO UPS. REFER TO NEW WORK DRAWINGS FOR MORE INFORMATION.
- REMOVE LOCKED OUT/TAGGED OUT UPS, BYPASS SWITCH, AND EMPTY BATTERY CABINET. DISCONNECT FEEDER FROM SOURCE AND MAINTAIN FEEDER AND CONDUIT FOR CONNECTION TO RELOCATED PANELBOARD. REMOVE SECTION OF FEEDER BELOW CEILING AS REQUIRED FOR NEW WORK. REMOVE ALL ASSOCIATED LOAD-SIDE CONDUITS AND WIRING COMPLETE TO SOURCE.



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2528 DENISON DRIVE, MOUNT PLEASANT, MI 48858  
CMURC / RRIP-IT RENOVATIONS  
ELECTRICAL  
ONE LINE DIAGRAM

**DRAWING SET INFO**

100% SCHEMATIC DESIGN REVIEW	<input type="checkbox"/>
50% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
95% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
50% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
95% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
80 AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
RECORD DRAWINGS - AS BUILT SET	<input type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

**ADDENDUM/BULLETIN REVISIONS**

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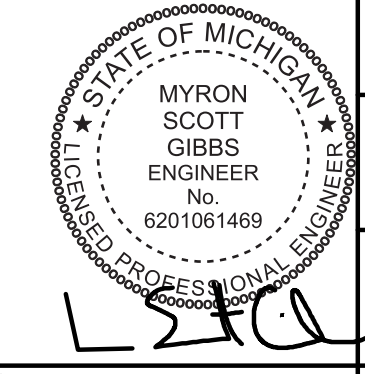
DRAWN BY: DMN  
CHECKED BY: TGC  
APPROVED BY: MSG

SHEET NO.

**E501**

A/E PROJECT NO. 2022081

CMU PROJECT NO. 655113







DRAWING SET INFO

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50% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
95% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
50% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
95% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
80 AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
RECORD DRAWINGS - AS BUILT SET	<input type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

ADDENDUM/BULLETIN REVISIONS

Δ	DATE	DESCRIPTION
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SCALE NONE  
DRAWN BY DMN  
CHECKED BY TGC  
APPROVED BY MSG

SHEET NO.  
**E502**  
A/E PROJECT NO.  
2022081  
CMU PROJECT NO.  
655113

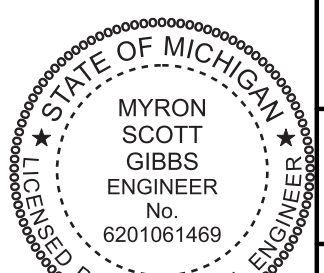
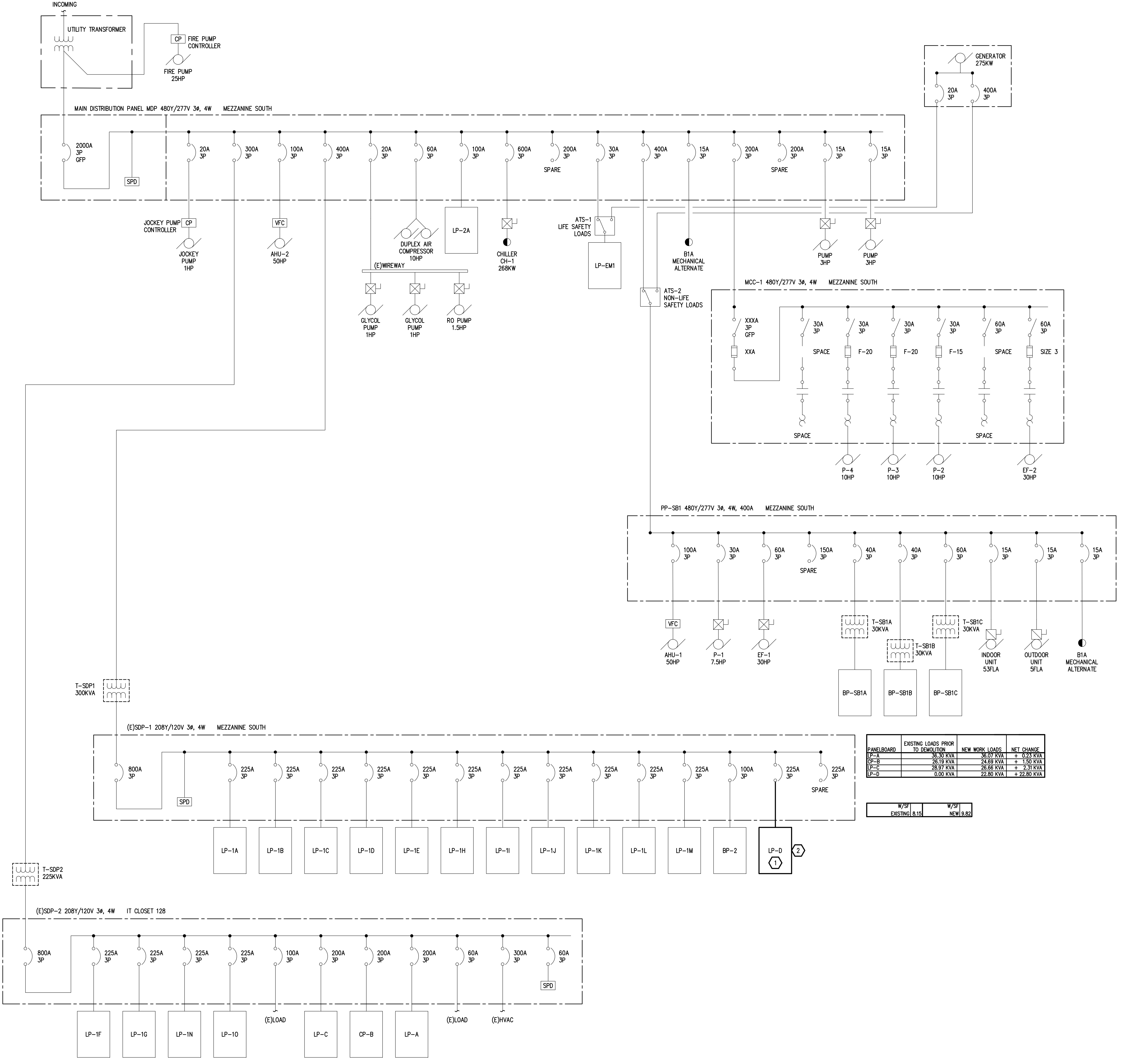


DIAGRAM GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "TRANSFORMER CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- BASIS OF DESIGN IS DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE CLEARANCES WITHIN THE SPACE PROVIDED.
- SELECTIVE COORDINATION (PER NEC ARTICLES 517.31(G), 700.32 AND 701.27) IS BASED ON DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. ELECTRICAL CONTRACTOR SHALL SUBMIT SELECTIVE COORDINATION STUDY WITH TIME CURRENT CHARACTERISTIC CURVES (AND TABLES FOR TESTED PAIR INSTANTANEOUS COORDINATION) FOR THE EMERGENCY SYSTEMS. ELECTRICAL CONTRACTORS SHALL RESUBMIT APPROVED SHOP DRAWINGS BACK FROM ENGINEER OF RECORD PRIOR TO PURCHASING OR INSTALLING ANY ELECTRICAL DISTRIBUTION EQUIPMENT. BREAKERS MUST BE COORDINATED WITH AUTOMATIC TRANSFER SWITCHES 3-CYCLE WITHSTAND RATING. ALTERNATE MANUFACTURERS SHALL MEET SELECTIVE COORDINATION CRITERIA AT NO ADDITIONAL COST TO THE PROJECT.
- VARIABLE FREQUENCY CONTROLLERS (VFC) FURNISHED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.

CONSTRUCTION KEY NOTES:

- RELOCATED PANELBOARD BP-LIPS NOW NAMED AS INDICATED. REUSE EXISTING CONDUIT PENETRATIONS, CONDUITS, AND WIRING PREVIOUSLY CONNECTED TO UPS TO SERVE PANEL FROM NEW LOCATION. EXTEND ALL CONDUIT AND WIRING AS REQUIRED.
- REMOVE EXISTING 2-POLE AND 3-POLE BREAKERS INSIDE PANELBOARD AND REPLACE WITH NEW 20A/1-POLE BREAKERS AS INDICATED ON PANEL SCHEDULE.



PANELBOARD	EXISTING LOADS PRIOR TO DEMOLITION	NEW WORK LOADS	NET CHANGE
LP-1	36.50 KVA	36.50 KVA	+ 0.00 KVA
CP-B	26.19 KVA	24.69 KVA	+ 1.50 KVA
LP-C	26.97 KVA	26.95 KVA	+ 0.02 KVA
LP-D	0.00 KVA	22.80 KVA	+ 22.80 KVA

W/S/	W/S/
EXISTING 8.15	NEW 9.82

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H G F E D C B A

PANELBOARD (E)LP-A Table with columns for Load Type, Description, CB Type, CB, VA, OA, OB, OC, VA, CB, Description, Load Type, #. Includes a summary table for Panelboard Information with Demand Factor, Calculated Load, Feeder and Overcurrent Sizing, and Notes.

PANELBOARD (E)CP-B Table with columns for Load Type, Description, CB Type, CB, VA, OA, OB, OC, VA, CB, Description, Load Type, #. Includes a summary table for Panelboard Information with Demand Factor, Calculated Load, Feeder and Overcurrent Sizing, and Notes.

PANELBOARD LP-C Table with columns for Load Type, Description, CB Type, CB, VA, OA, OB, OC, VA, CB, Description, Load Type, #. Includes a summary table for Panelboard Information with Demand Factor, Calculated Load, Feeder and Overcurrent Sizing, and Notes.

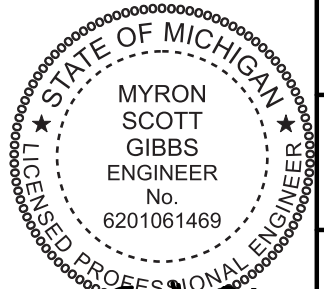
(RRP-UPS RENAMED) PANELBOARD LP-D Table with columns for Load Type, Description, CB Type, CB, VA, OA, OB, OC, VA, CB, Description, Load Type, #. Includes a summary table for Panelboard Information with Demand Factor, Calculated Load, Feeder and Overcurrent Sizing, and Notes.

PANEL SCHEDULE INDEX Table with columns for Schedule Number and Description.

DRAWING SET INFO Table with checkboxes for 100% SCHEMATIC DESIGN REVIEW, 50% DESIGN DEVELOPMENT REVIEW, 95% DESIGN DEVELOPMENT REVIEW, 50% CONSTRUCTION DOC. REVIEW, 95% CONSTRUCTION DOC. REVIEW, 80 AND CONSTRUCTION SET, RECORD DRAWINGS - AS BUILT SET, FOR REFERENCE ONLY, STATE PLAN REVIEW.

ADDENDUM/BULLETIN REVISIONS Table with columns for DATE and DESCRIPTION.

SCALE NONE, DRAWN BY DMN, CHECKED BY TGC, APPROVED BY MSG, SHEET NO. E503, A/E PROJECT NO. 2022081, CMU PROJECT NO. 655113





H G F E D C B A

INTERIOR LIGHTING CONTROL SCHEDULE

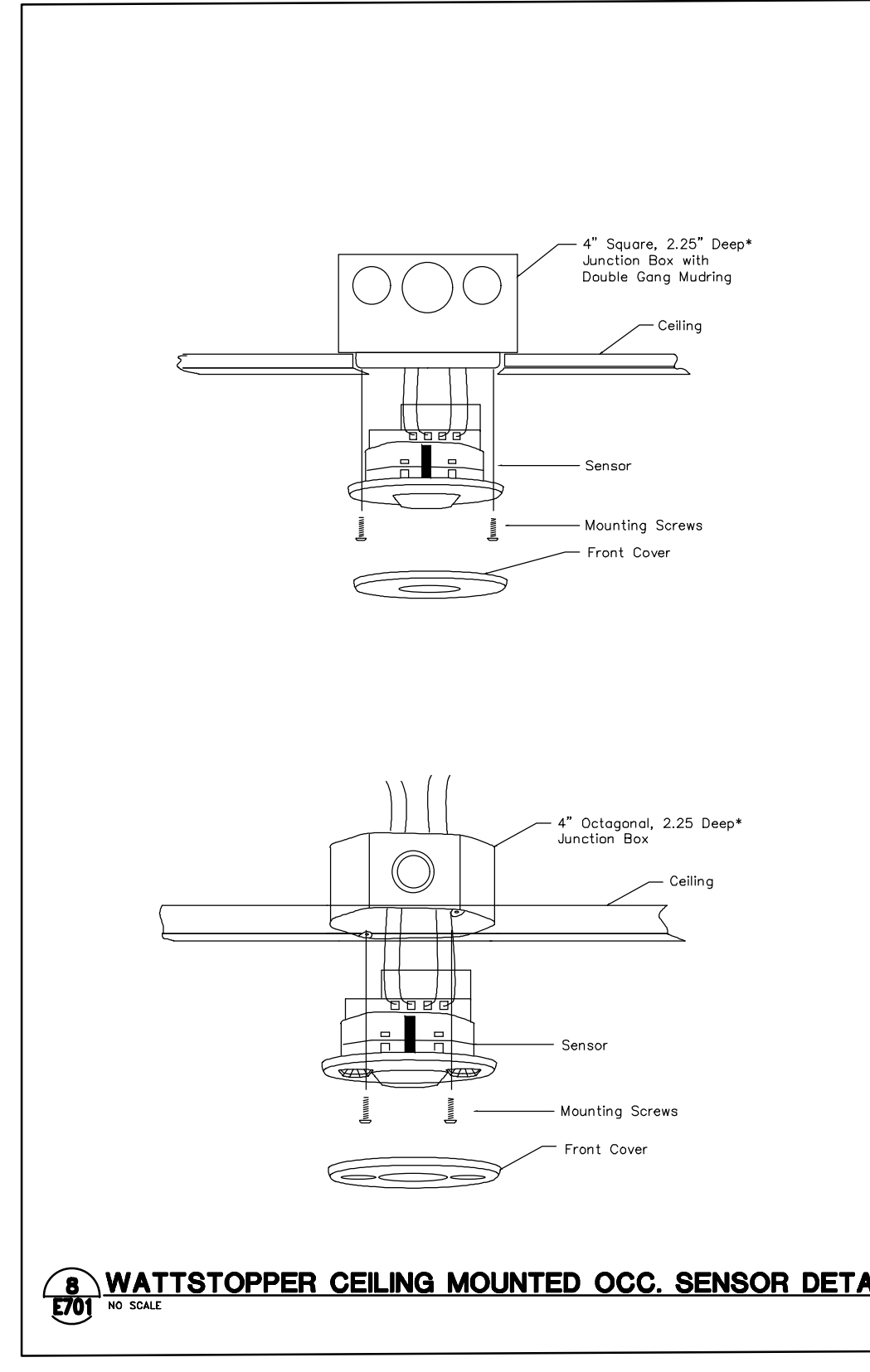
Table with columns: PLAN REFERENCE, ROOM TYPE, LOCAL CONTROL (SWITCH TYPE, SWITCH CONTROL, SCENE CONTROL), CONTROL ON / OFF, SENSOR TYPE, TURN ON LIGHTING TO %, BI-LEVEL CONTROL, DAYLIGHT, NO DETECTION PARTIAL REDUCE TO (%), NO DETECTION FULL OFF (MIN), EMERGENCY LIGHTING FULL OFF (MIN), HVAC CONTROL, NOTES.

SPECIAL NOTE:

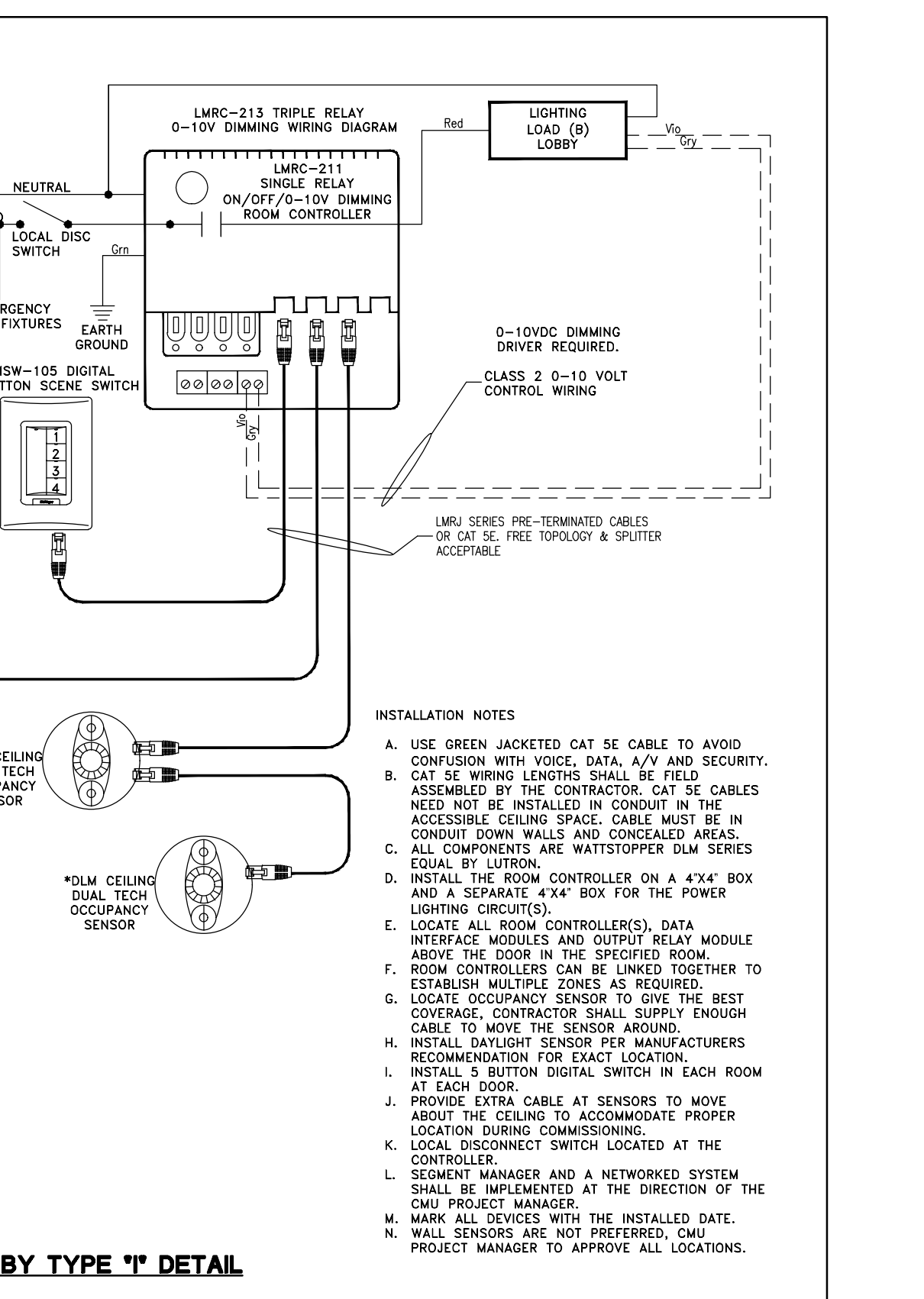
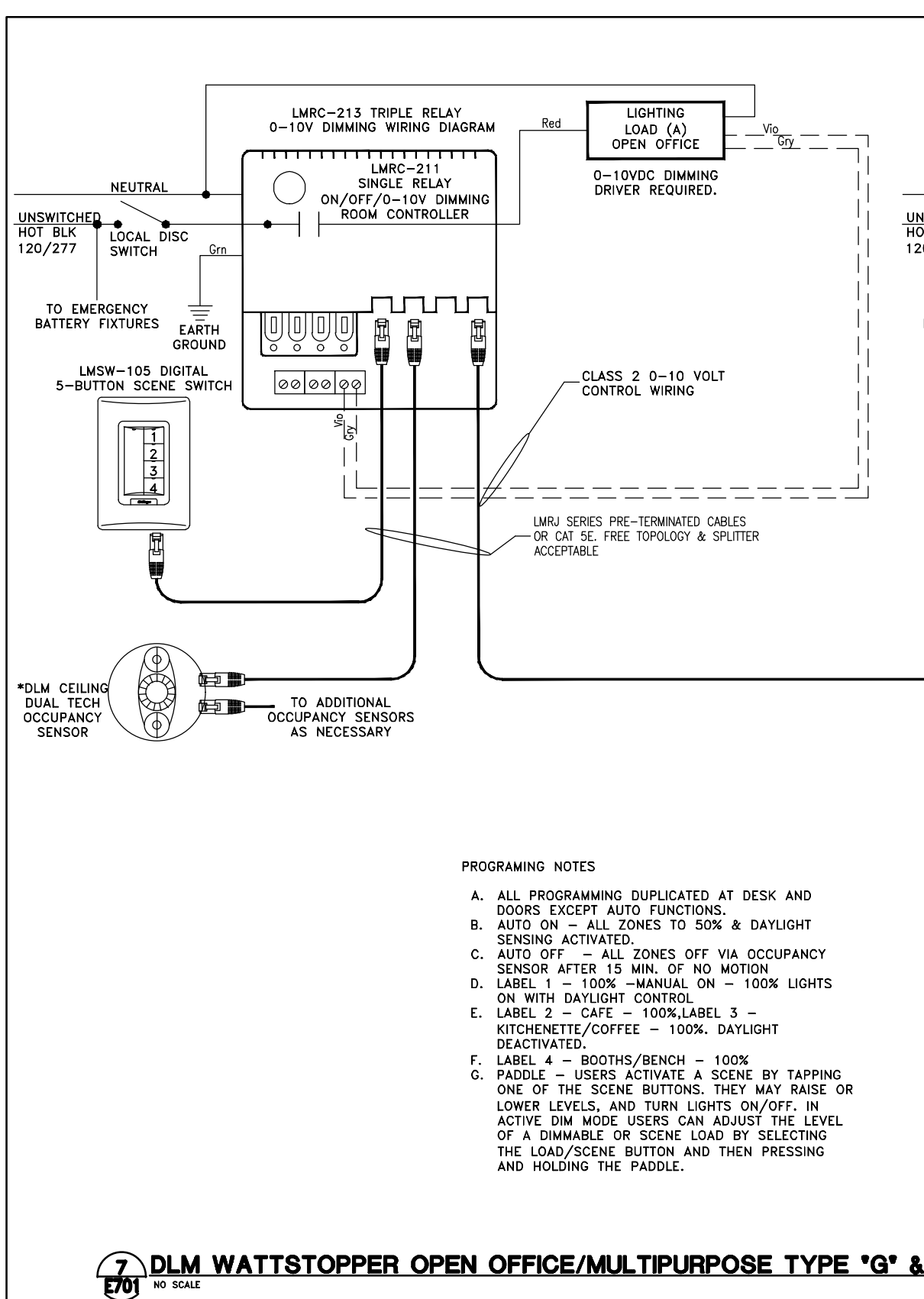
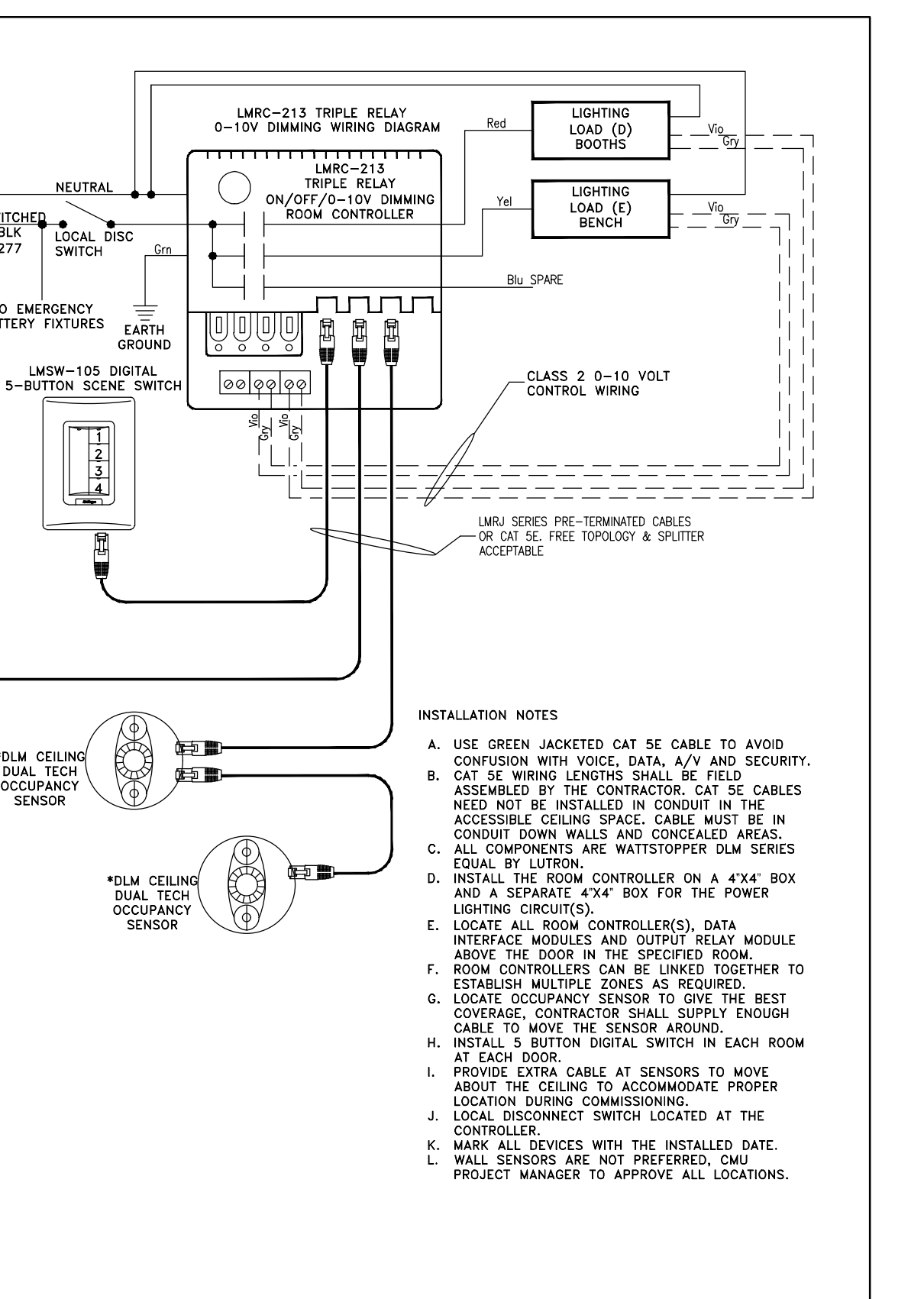
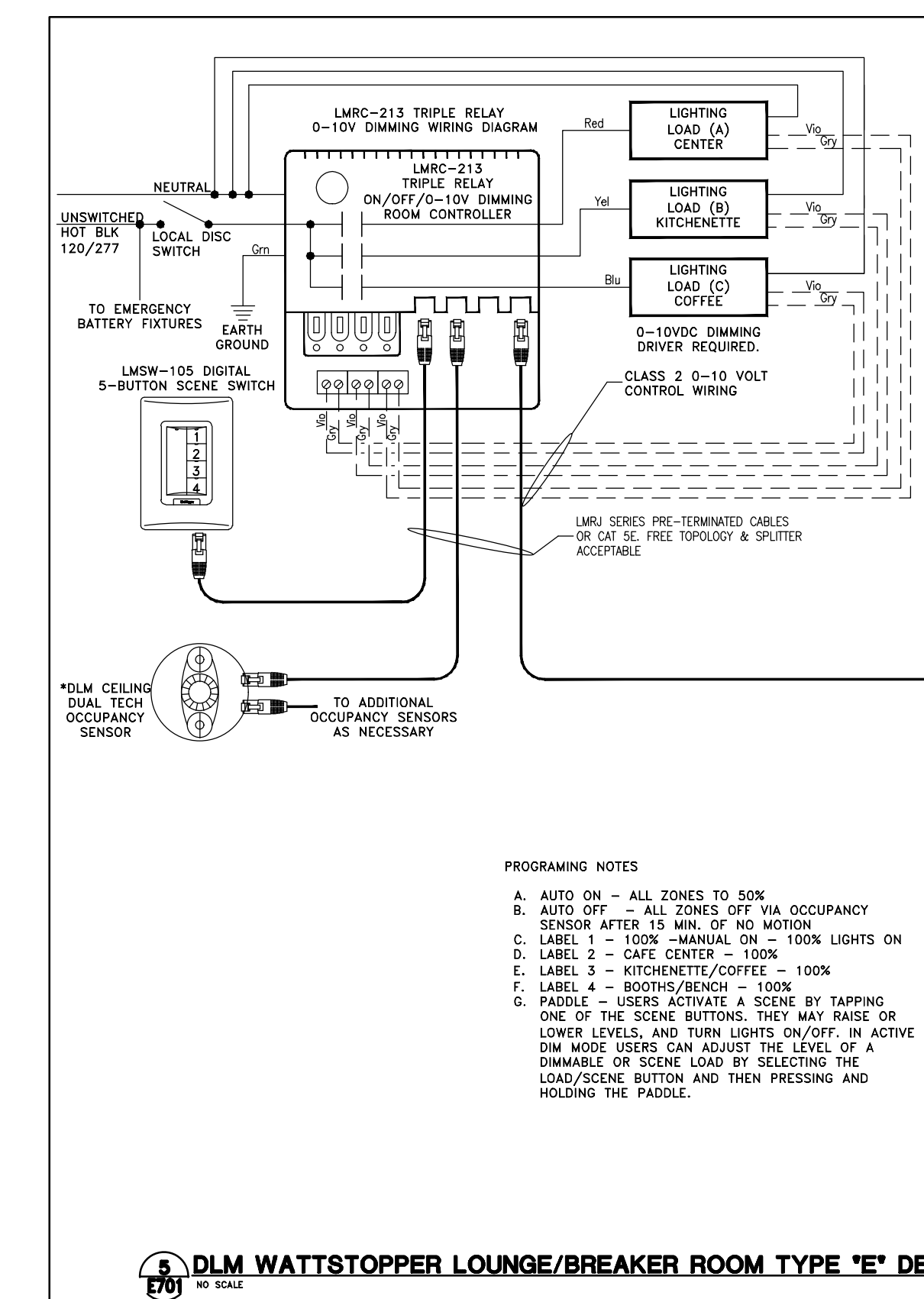
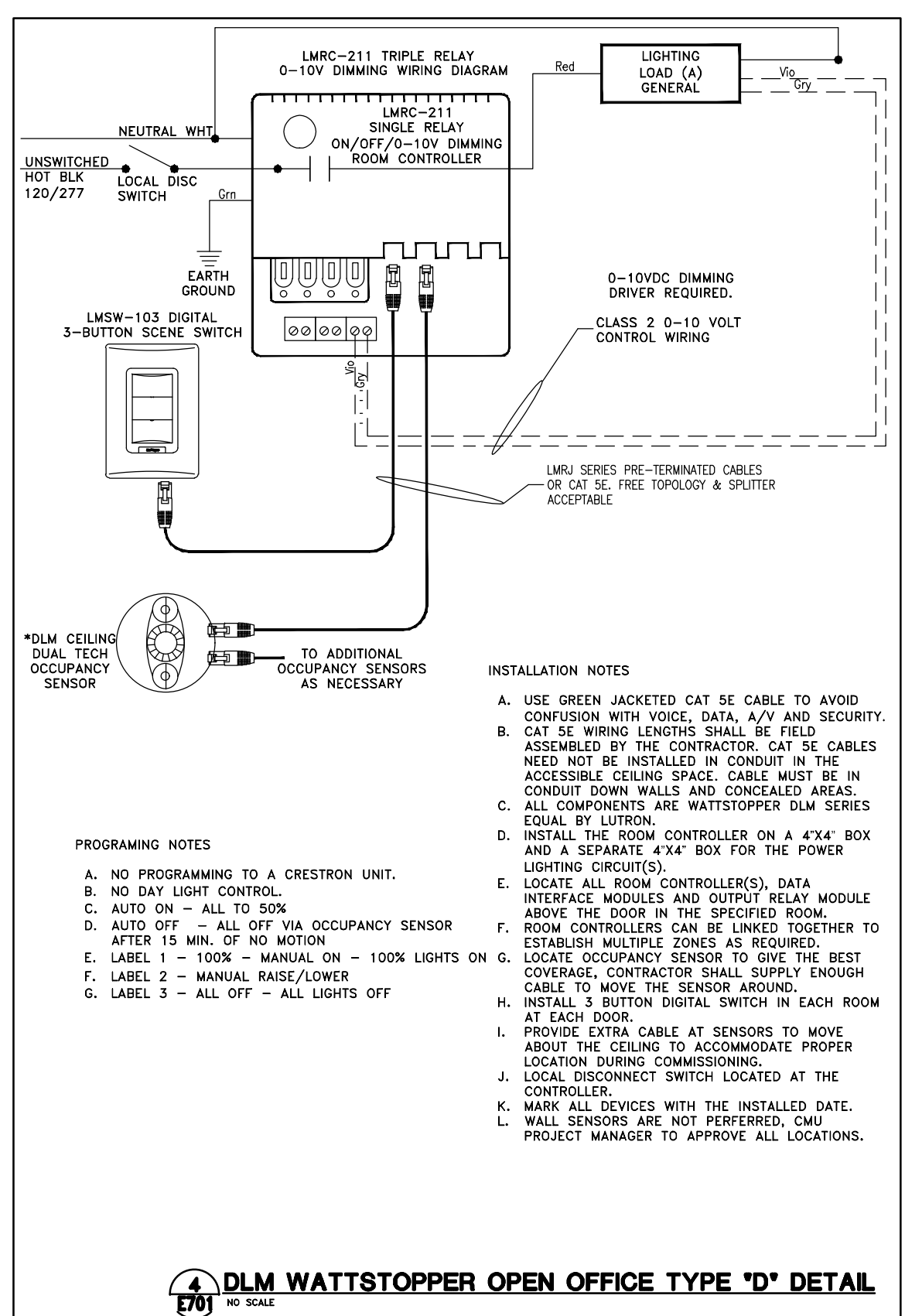
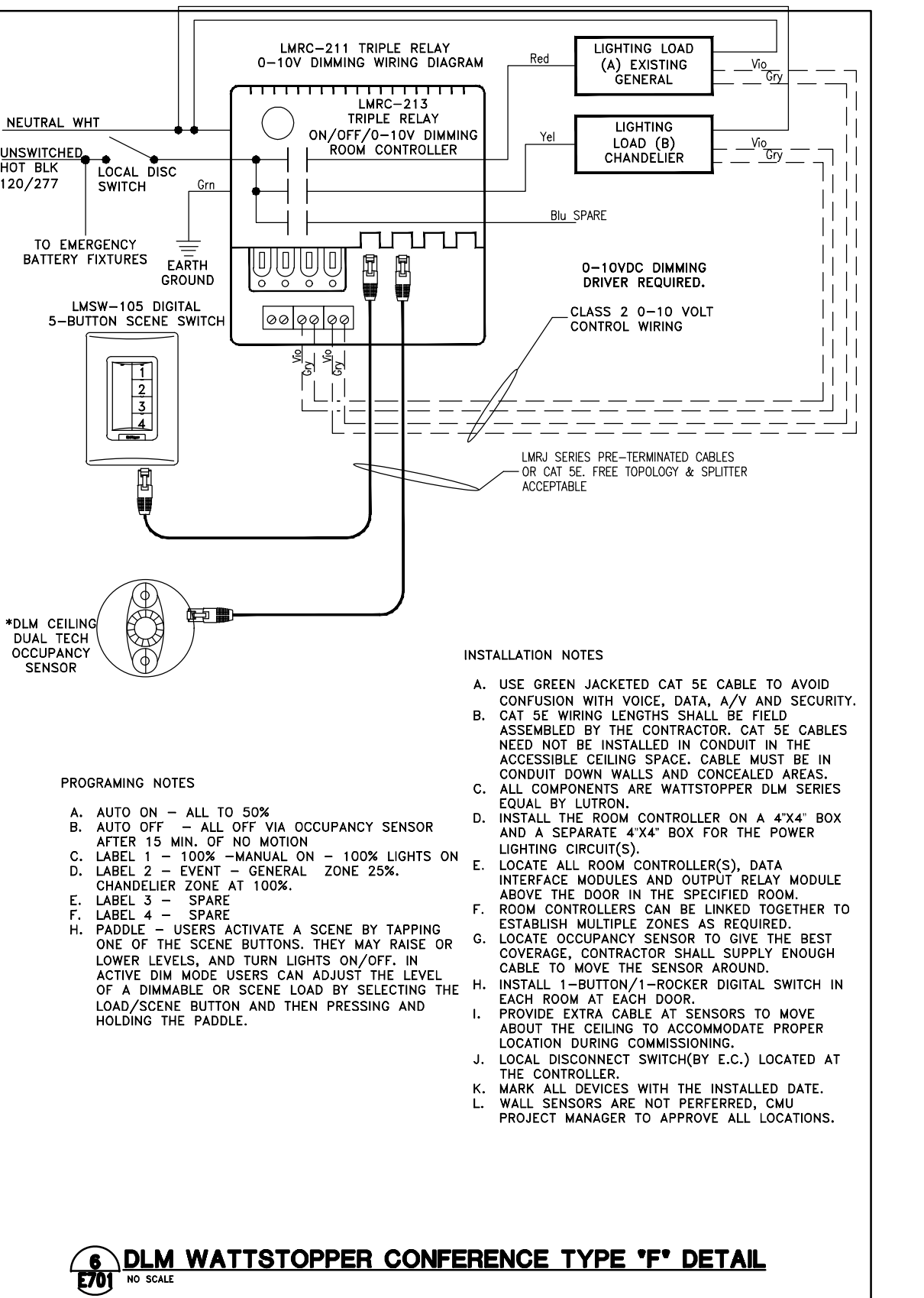
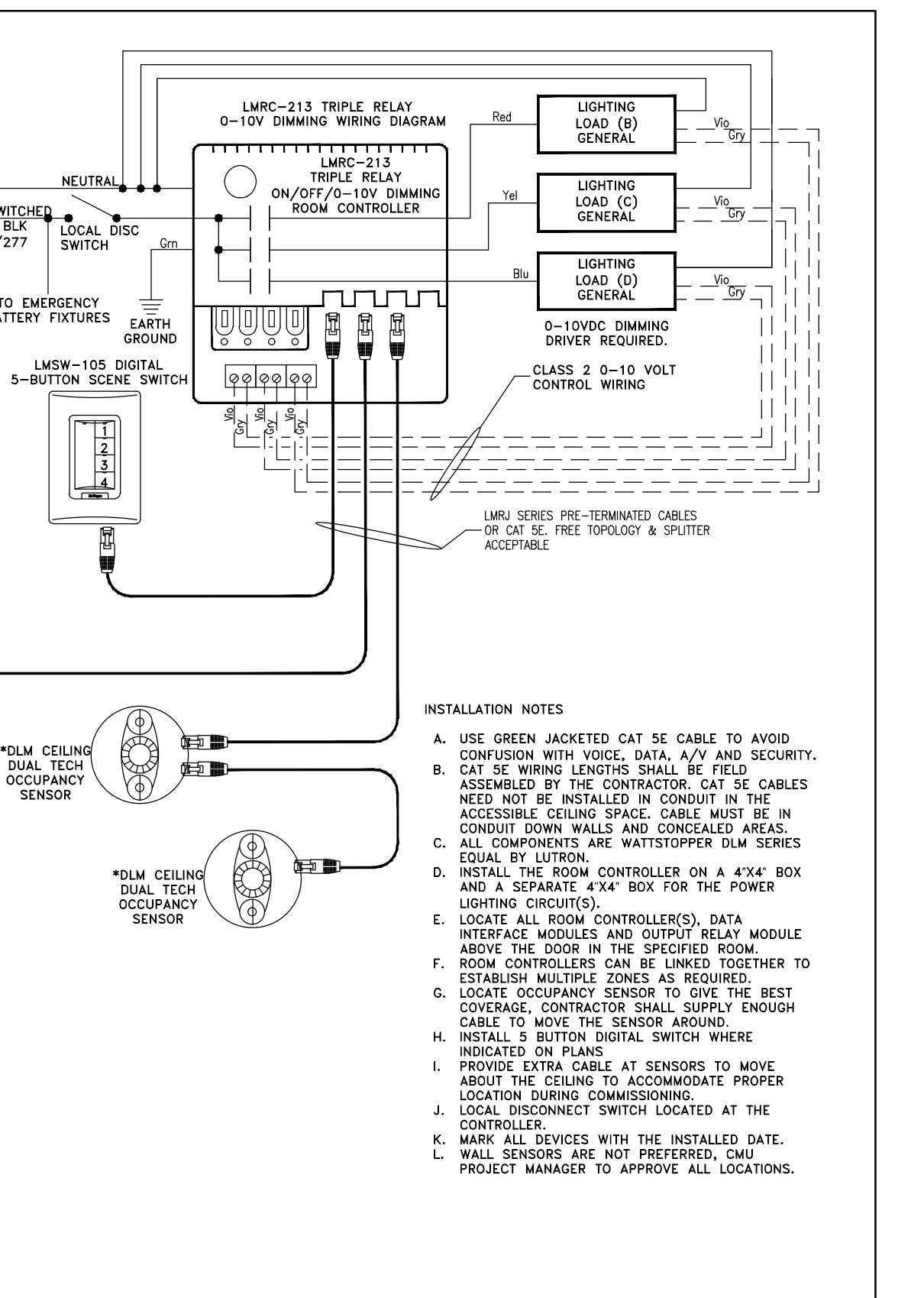
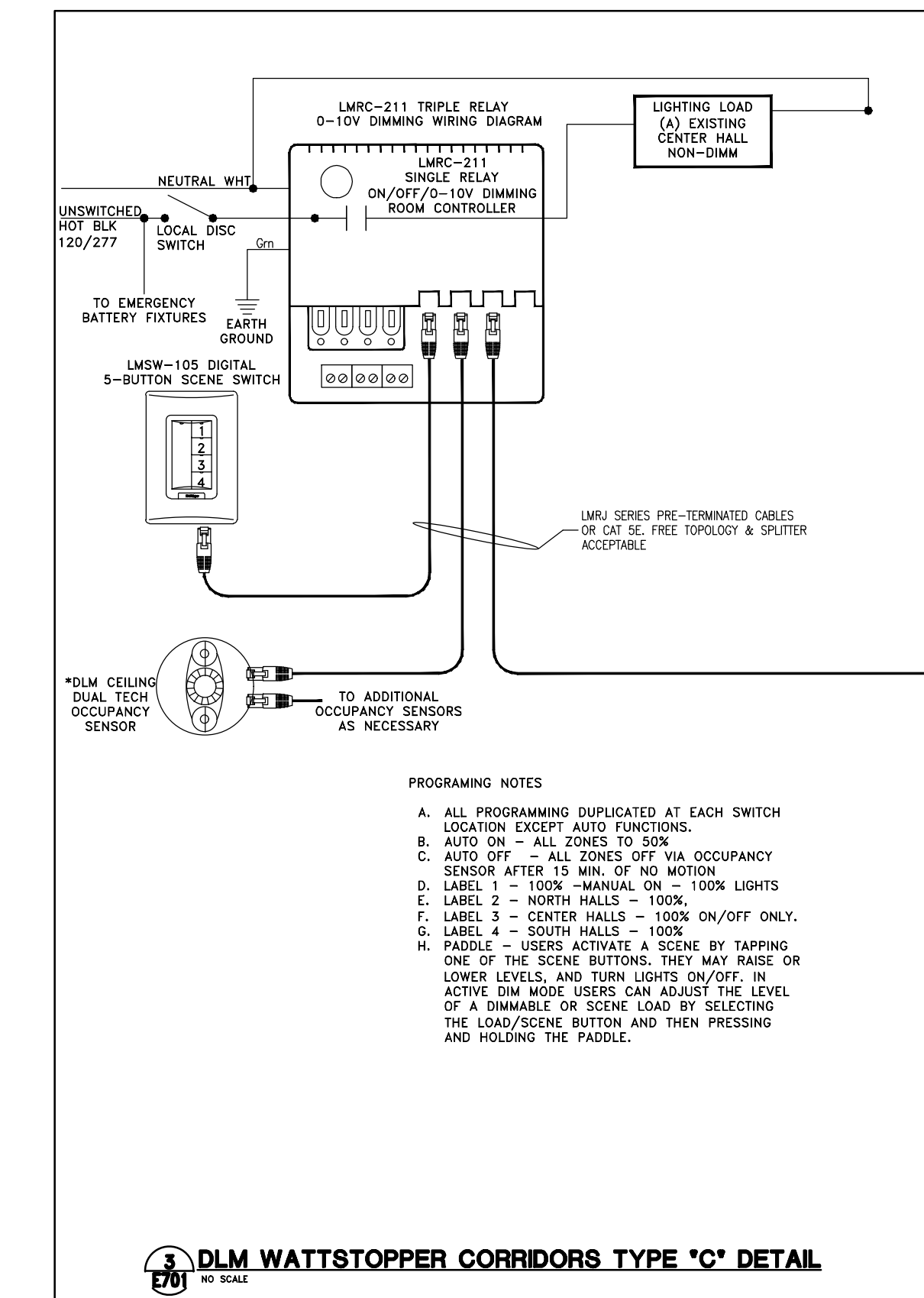
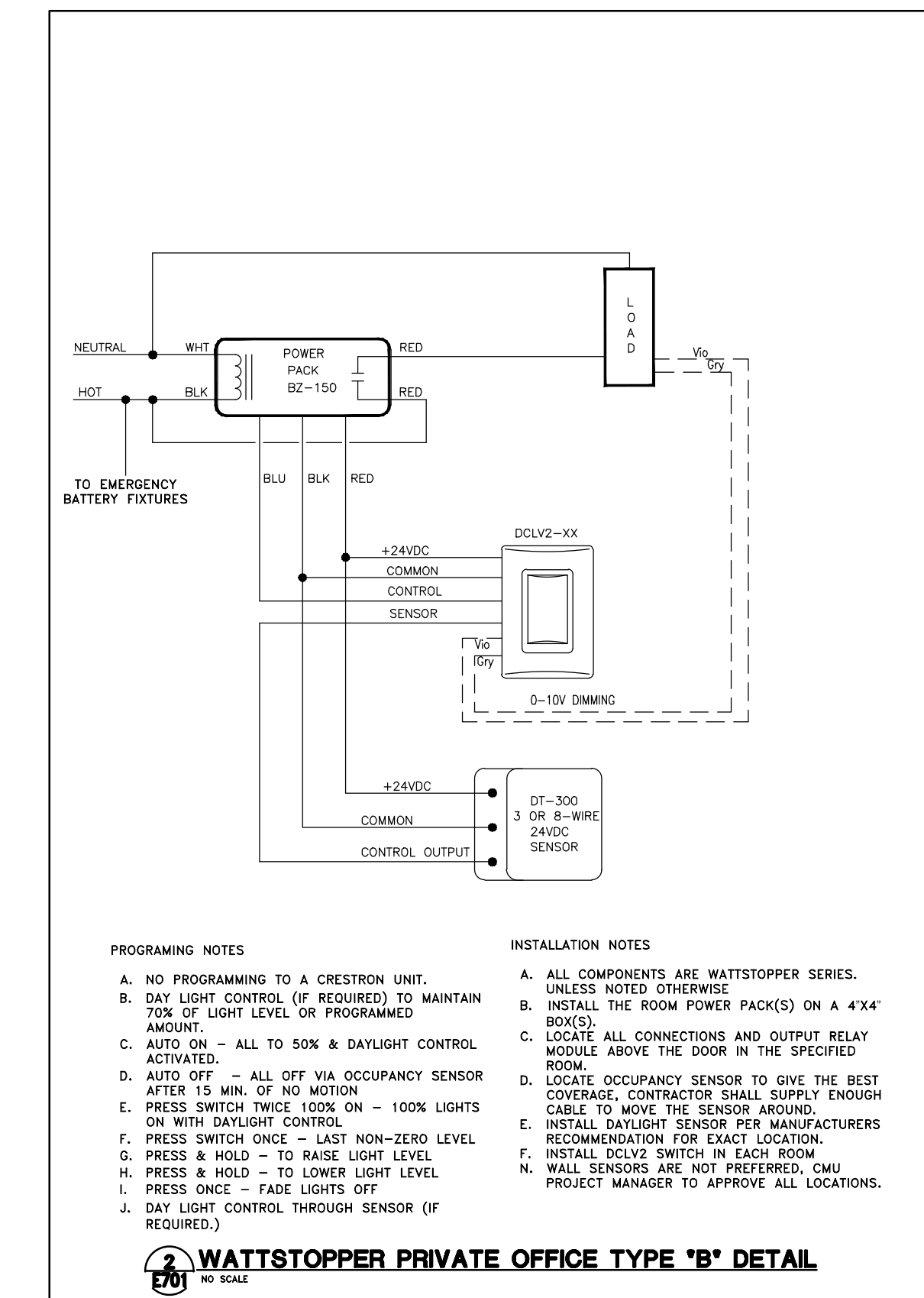
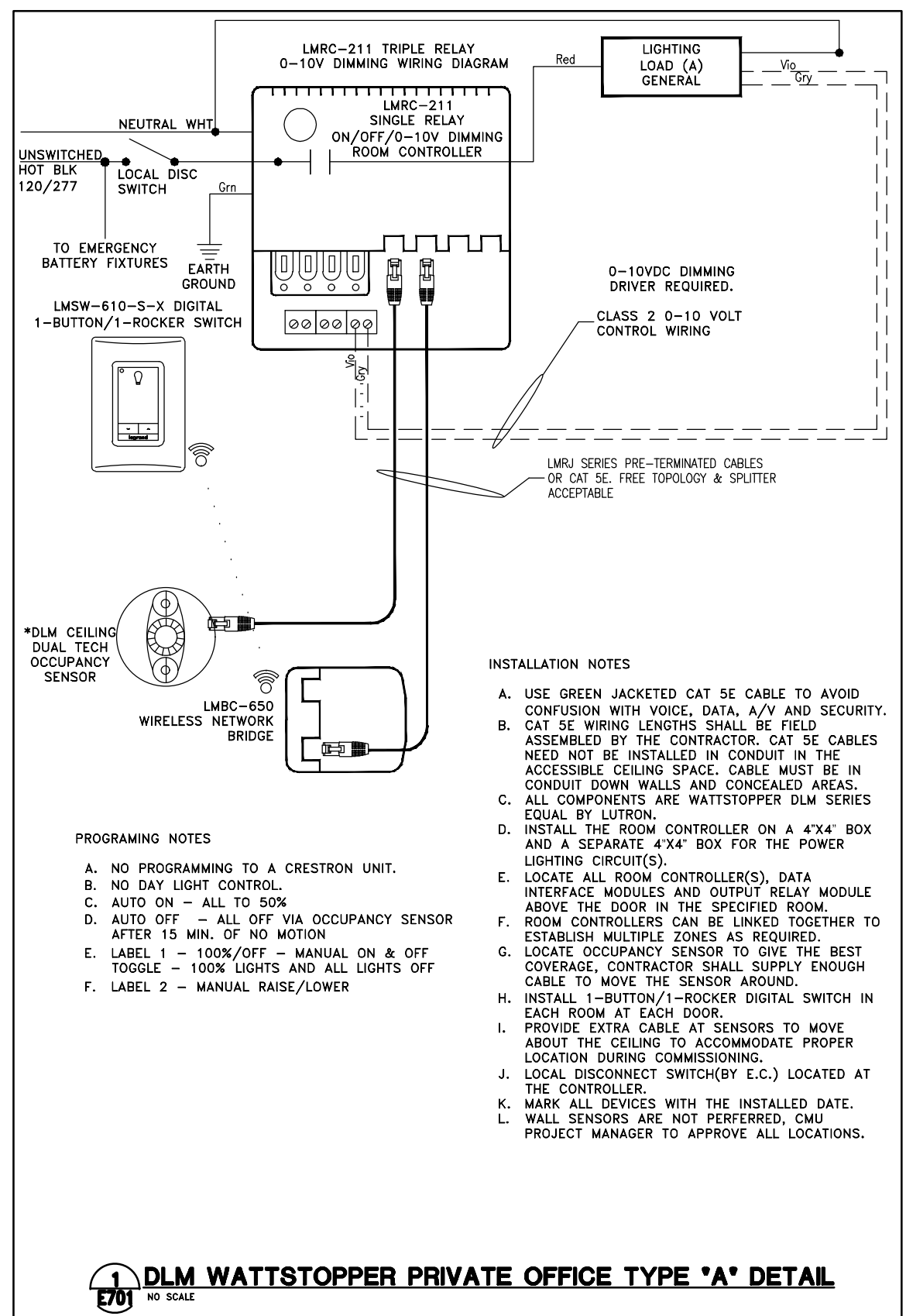
ENCLOSED OFFICES "AC" - IF ARCHITECTURAL DEDUCT ALTERNATES ARE ACCEPTED AS SPACE IS NOT BUILT OUT...

LUMINAIRE SCHEDULE

Table with columns: TYPE, DESCRIPTION, MANUFACTURER(S), WATTAGE, REMARKS.



NOTE: 1. REFER TO PLANS FOR LOCATION OF LOCAL CONTROL. 2. REFER TO PLANS FOR PRIMARY AND SECONDARY DAYLIGHT ZONES. 3. PROVIDE EMERGENCY LIGHTING CIRCUIT CONTROL (BELTS OR ALCR) PER SWITCHING CIRCUIT AS REQUIRED.



CMU CENTRAL MICHIGAN UNIVERSITY UNIVERSITY ENGINEERING & PLANNING FACILITIES MANAGEMENT 206 MOUNTAIN SERVICES BUILDING

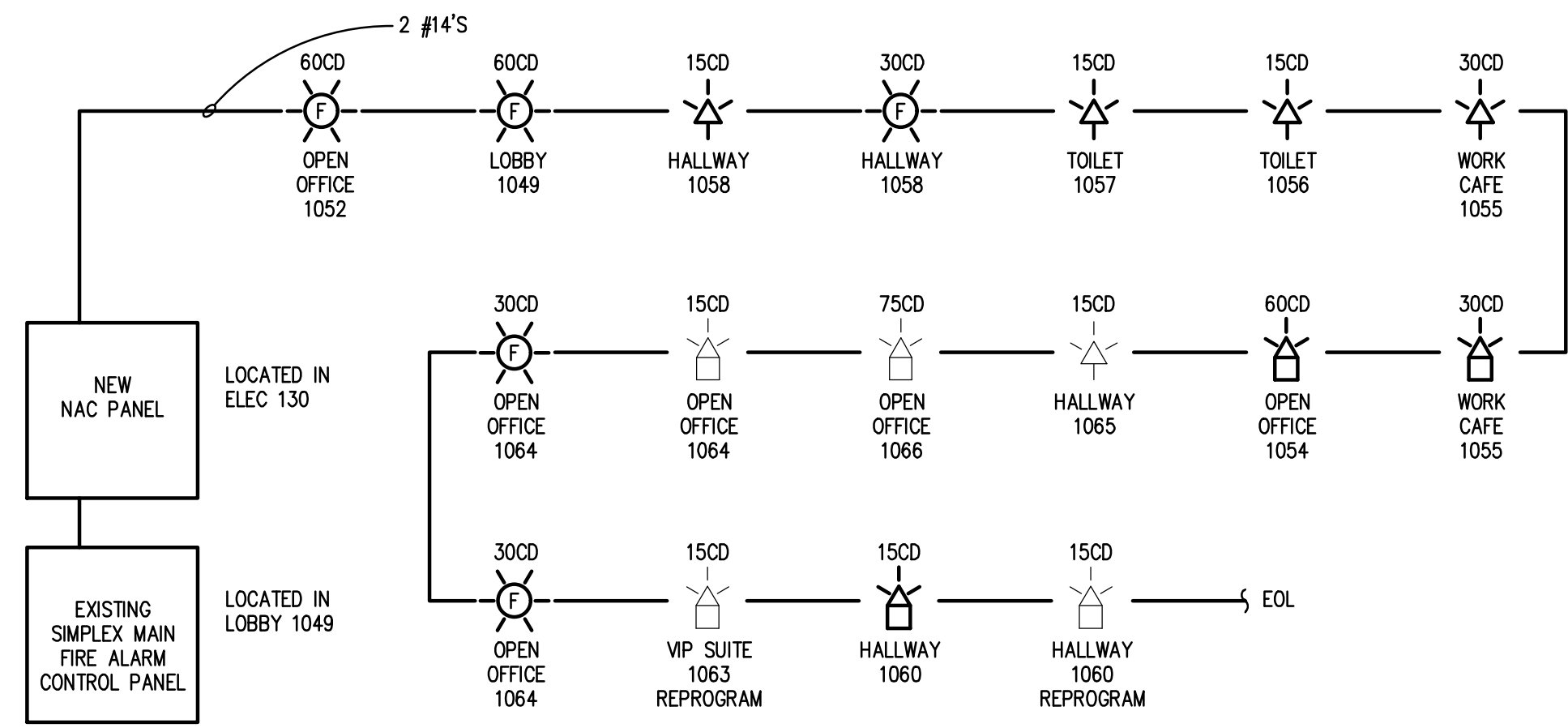
CENTRAL MICHIGAN UNIVERSITY 2526 DENISON DRIVE, MOUNT PLEASANT, MI 48859 CMURC / RRIP-IT RENOVATIONS ELECTRICAL LIGHTING SCHEDULES & ELECTRICAL DETAILS

DRAWING SET INFO 100% SCHEMATIC DESIGN REVIEW 50% DESIGN DEVELOPMENT REVIEW 95% DESIGN DEVELOPMENT REVIEW 50% CONSTRUCTION DOC. REVIEW 95% CONSTRUCTION DOC. REVIEW 80 AND CONSTRUCTION SET RECORD DRAWINGS - AS BUILT SET FOR REFERENCE ONLY STATE PLAN REVIEW ADDENDUM/BULLETIN REVISIONS SCALE NONE DRAWN BY DMN CHECKED BY TCC APPROVED BY MSC SHEET NO. E701 A/E PROJECT NO. 2022081 CMU PROJECT NO. 655113

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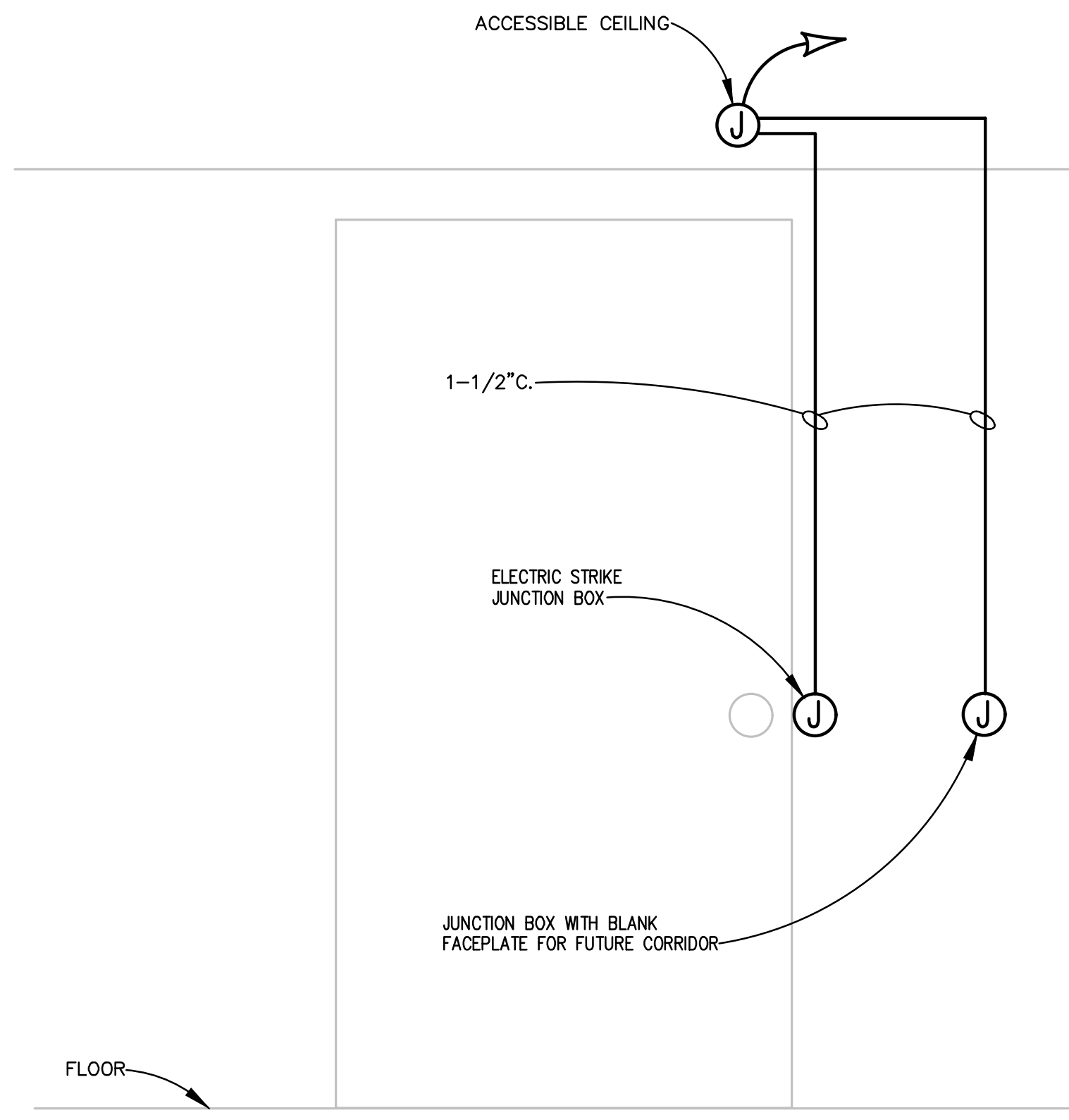


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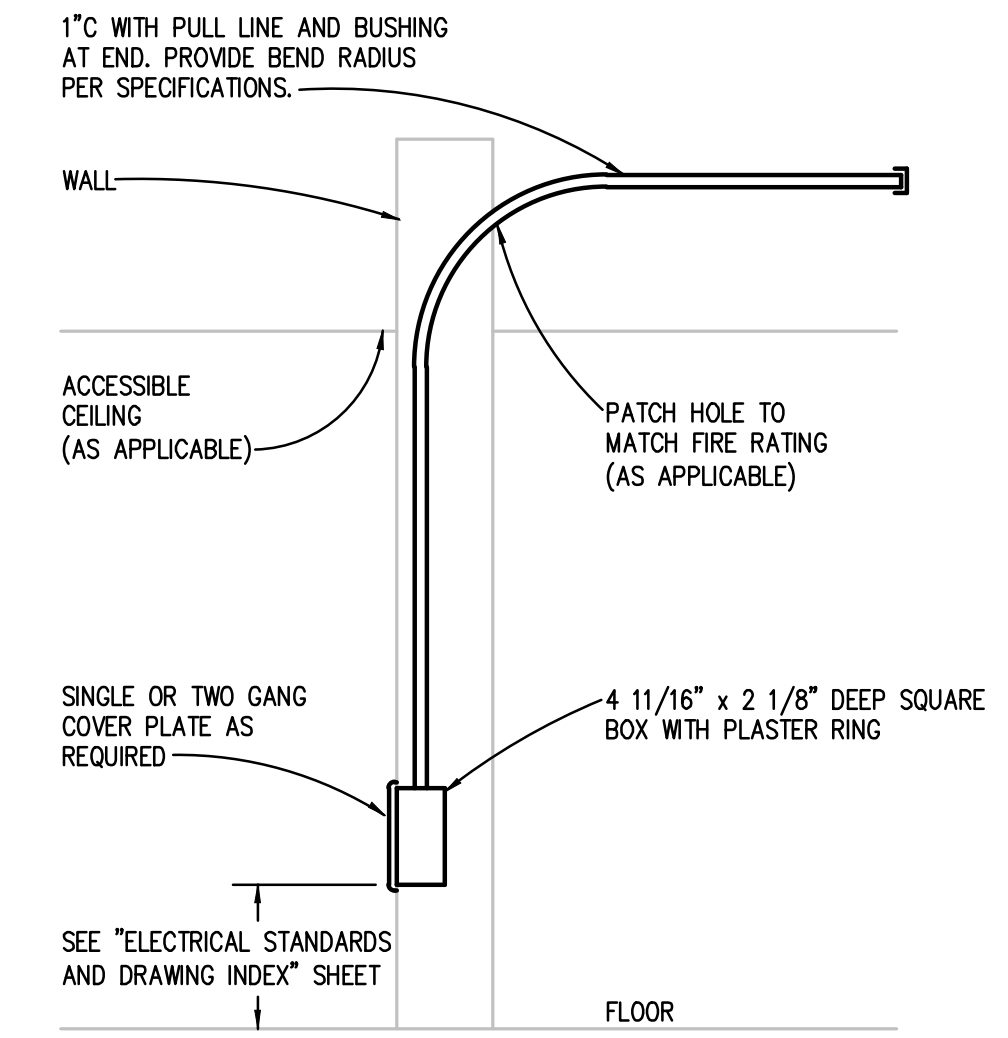
**CMURC - FIRE ALARM SYSTEM RENOVATIONS**

- NO SCALE**
- NOTES:**
- CONTACT CLIFFORD GRIFFON (248)755-9054 PRIOR TO BEGINNING FIRE ALARM REVISIONS.
  - THE OVERALL BUILDING FIRE ALARM RISER DIAGRAM WILL BE CREATED AND IS THE RESPONSIBILITY OF THE FIRE ALARM VENDOR.



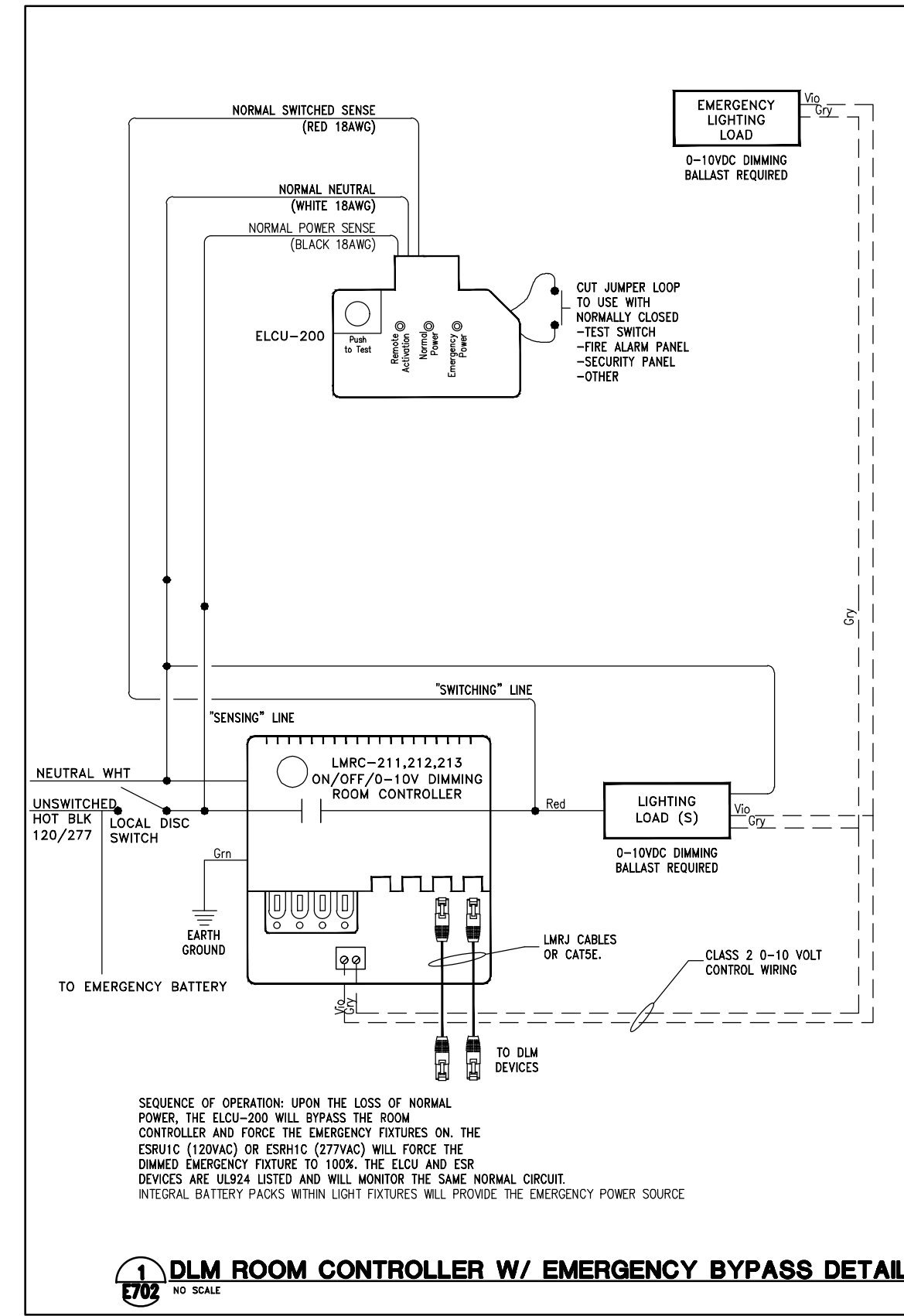
**FUTURE CARD READER ROUGH-IN**

**NO SCALE**



**TELECOMMUNICATION OUTLET DETAIL**

- NO SCALE**
- NOTES:**
- IF CEILING IN ROOM IS NOT ACCESSIBLE, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING IN DIRECTION OF AND WITH PATHWAY OR ACCESS TO TELECOMMUNICATION ROOM.



**DLM ROOM CONTROLLER W/ EMERGENCY BYPASS DETAIL**

**CMU**  
CENTRAL MICHIGAN UNIVERSITY

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**CMURC / RRIP-IT RENOVATIONS**  
**ELECTRICAL**  
LIGHTING SCHEDULES & ELECTRICAL DETAILS

**DRAWING SET INFO**

100% SCHEMATIC DESIGN REVIEW	<input type="checkbox"/>
50% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
95% DESIGN DEVELOPMENT REVIEW	<input type="checkbox"/>
50% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
95% CONSTRUCTION DOC. REVIEW	<input type="checkbox"/>
90 AND CONSTRUCTION SET	<input checked="" type="checkbox"/>
RECORD DRAWINGS - AS BUILT SET	<input type="checkbox"/>
FOR REFERENCE ONLY	<input type="checkbox"/>
STATE PLAN REVIEW	<input type="checkbox"/>

**ADDENDUM/BULLETIN REVISIONS**

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SCALE: NONE  
DRAWN BY: DMN  
CHECKED BY: TGC  
APPROVED BY: MSG

SHEET NO.  
**E702**  
A/E PROJECT NO.  
**2022081**  
CMU PROJECT NO.  
**655113**

