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FURNITURE MALL TENANT IMPROVEMENT

INTERIOR IMPROVEMENTS



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GENERAL PROJECT NOTES:	
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING LAWS AND CODES, AND IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION. 2. GC TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR ACKNOWLEDGES REVIEW OF CONDITIONS AND INTENT OF ALL CONSTRUCTION DOCUMENTS UPON SUBMITTING BID. 3. CALCULATE AND MEASURE REQUIRED DIMENSIONS. DO NOT SCALE DRAWINGS UNLESS OTHERWISE INDICATED. ALL DIMENSIONS TO BE TAKEN FROM DESIGNATED DATUM POINT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. DETAIL DIMENSIONS TAKE PRECEDENCE OVER PLAN DIMENSIONS. 4. ALL ITEMS SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR WILL BE COORDINATED BY THE CONTRACTOR FROM DELIVERY TO INSTALLATION. 5. DIMENSIONS ON DRAWINGS ARE TO FACE OF STUD AND CENTERLINE OF COLUMNS UNLESS OTHERWISE NOTED. 6. THE GENERAL CONTRACTOR (GC, HEREFTER) UPON SIGNING THE OWNER/GC AGREEMENT, ACCEPTS THE CD (INCLUDING THESE DRAWINGS W/ THE INCLUDED NOTES & DESCRIPTIVE MATERIAL) & AGREES TO EXECUTE THE NECESSARY WORK IN MANNER DESCRIBED THEREIN. A) UPON EXAMINATION / FAMILIARIZATION OF CD & JOB SITE VISIT, ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES AND/OR CONFLICTS NOTED, SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT IN WRITING, FOR CORRECTION. B) ANY ELEMENT, WHATSOEVER, REQUIRED BY BUILDING TO BE INCORPORATED IN CONSTRUCTION BUT NOT SPECIFIED IN CD SHALL BE BROUGHT TO ATTENTION OF ARCHITECT FOR REVIEW/ACTION.	C) NO MODIFICATIONS / REVISIONS / CHANGES SHALL BE UNDERTAKEN UNLESS SPECIFICALLY SO INSTRUCTED AND APPROVED BY OWNER. D) DURING COURSE OF PROJECT, GENERAL CONTRACTOR SHALL MAKE EVERY EFFORT TO FULLY INFORM ALL CONCERNED PARTIES REGARDING DECISIONS/ACTIONS TAKEN WHICH, IN ANY WAY, MIGHT AFFECT ANY SAID CONSTRUCTION CONDITIONS. 7. ALL EXISTING HOLES/CRACKS IN SLAB AND THOSE RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE FILLED/REPAIRED AND THE SURFACE PATCHED SMOOTH AND LEVEL WITH ADJACENT FLOOR SURFACE, IN A MANNER ACCEPTABLE TO OWNER AND ARCHITECT 8. GC SHALL BE RESPONSIBLE FOR FIELD MEASURING OF EXISTING CONDITIONS PRIOR TO START OF WORK AND DURING CONSTRUCTION, AS NECESSARY, TO ASSURE CONSTRUCTION ADHERENCE TO DRAWINGS. BY ENTERING INTO A CONSTRUCTION CONTRACT FOR THIS WORK, GC SHALL INDICATE HIS FAMILIARITY WITH THE SITE/FIELD CONDITIONS. A) ALL "HOLD" DIMENSIONS SHALL BE MONITORED TO ASSURE CORRECTNESS. B) ANY DIMENSION REVISIONS/MODIFICATIONS ARE TO BE BROUGHT TO ATTENTION OF THE ARCHITECT FOR REVIEW/APPROVAL. 9. ALL VERTICAL DIMENSIONS SHALL BE TAKEN FROM "BENCH MARK" OR OTHER SIMILAR GUIDE ESTABLISHED PRIOR TO START OF CONSTRUCTION. HIGH POINTS, LOW POINTS, IRREGULARITIES IN FLOOR SLAB, PARTICULARLY, WHICH COULD IN ANY WAY AFFECT FABRICATION/INSTALLATION WORK OF OTHER TRADES OR VENDORS (I.E., CABINET CONTRACTORS), SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. A) VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1/2" FOR EVERY 10'-0" IN EVERY DIRECTION WILL REQUIRE LEVELING OF SLAB BY G.C. LEVELING OF SLAB TO BE DONE AS REQUIRED READY TO RECEIVE FLOOR FINISHES, (I.E., VINYL TILE FLOORS, CARPETING, ETC.). G.C. TO VERIFY SLAB CONDITION PRIOR TO BID SUBMISSION AND CONTACT LANDLORD.
	10. GC, SUBCONTRACTORS, AND ALL VENDORS ARE TO VERIFY ALL CLEARANCES (CORRIDORS, STAIRS, ELEVATORS, ETC.) REQUIRED FOR DELIVERIES AND PASSAGE OF ALL JOB MATERIALS/EQUIPMENT. 11. ALL NECESSARY WOOD BLOCKING / GROUNDS, ETC., ARE TO BE SUPPLIED AS FIREPROOFED ELEMENTS. GC SHALL FULLY COORDINATE SETTING/PLACEMENT OF THESE ELEMENTS AS REQUIRED BY LOCAL CODE/BUILDING OR SURROUNDINGS. A) GROUND/BLOCKING MAY NOT BE WHOLLY SHOWN ON DRAWINGS AND GOOD CONSTRUCTION PRACTICE SHALL GOVERN/DETERMINE SAID USE WHERE A QUESTION ARISES. B) GC TO PAY PARTICULAR ATTENTION TO ALL LOCATIONS OF DRYWALL PARTITION CONSTRUCTION THAT ABUT OR RECEIVE MILLWORK OR CABINET WORK. CONSTRUCTION OF WOOD/GLASS BORROWED LIGHT PARTITIONS AND ADJACENT DRYWALL CONSTRUCTION AS REQUIRED. 12. THE CONTRACTOR SHALL INSTALL DUST PROOF CURTAINS BETWEEN THE AREAS TO BE REMODELED AND THE AREAS TO REMAIN UNTIL ALL DUST PRODUCING WORK IS COMPLETED AND ALL DEBRIS IS CLEANED UP. 13. PROTECT THE AREAS OF THE BUILDING NOT BEING REMODELED FROM DAMAGE AT ALL TIMES. 14. KEEP ACCESS TO EMERGENCY EXITS AVAILABLE AT ALL TIMES 15. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE PROJECT SITE AND DISPOSE IN A LICENSED LANDFILL

GENERAL NOTES

12" = 1'-0"

A.F.F. ACOUS. ACT ADJ A/C ALT ALUM ANG APPROX ARCH AD ASPH BSMT BM BYND BITUM. BLK BLKG BD BOT BO B.C. BOS BLDG BO CAB CPT C.I.P. C.B. CLG. CEM. CTR CL C/C CER. CT. C. OF O. C.O. CL. CLR CLOS. CW COL CONC CMU CONF. CONST. C.M. CONT CONTR C.J. CONV. CG CQRR. DB DEG. DEPT. D.O.B. D.E.P. DTL DIA. DIFF. DIM. DW DISP. DR D.O. DBL. DN DWG(S) D.F. EA EW E EPDM ELECT ELEC. E.P. EL. ELEV. EMER. ENCL. EQ. EQ, EQUIP. EXIST. EXP E.J. EXT. EIFS	Above Finish Floor Acoustical Title Adjacent, Adjustable Air Conditioning Alternate Aluminum Angle Approximate Architectural Area Drain Asphalt Basement Beam Beyond Bituminous Block Blocking Board Bottom Bottom of Bottom of curb Bottom of steel Building By Others/Owner Cabinet Carpet Cast-In-Place Catch Basin Ceiling Cement Center Center Line Center to Center Ceramic Ceramic Tile Certificate of Occupancy Channel Cleanout Clear Clear Close Cold Water Column Concrete Concrete Masonry Unit Conference Construction Construction Manager Continuous Contractor Control Joint Convactor Curtain Guard Dark Degree Department Dept. Of Building Dept. Of Environmental Protection Detail Diameter Diffuser Dimension Dishwasher Dispenser Door Door Opening Double Down Drawing, Drawings Drinking Fountain Each Each Way East Elastomeric Roof Membrane Electric, Electrical Electrical Electrical Panelboard Elevation Elevator Emergency Enclosure Equal Equipment Existing Expansion Expansion Joint Exterior Exterior Insulation Finish System	FOC FOF FOS FOV FV FIN. F.A. F.E. F.E.C. F.R. F.S.P. F.V.C. F.P. FPSC FIX, FIXT FLASH FL, FLR F.D. FLUOR. FT. FTG. FDN. F.A.I. F.B.O. FURR. GALV. G. GA. G.C. GL G.F.R.C. G.F.R.G. GR. GSF GND GYP GYP, BD HDWR HDWD HD HTR HVAC HT. HPC H.P. HWY H.C. H.M. HORIZ. H.B. HW HR IN, " INC. I.D. INSUL. INT. JAN J.C. JT. JST KIT. K.O. LS LAM. LAV. L.H. L LT L.W. L.P. MH MFR, MANUF M.O. MATL MAX MECH. MEPPF M.E.R. MDF MEMB. MTL MEZZ. MIN. MIR MISC. MTD. MTG. MULT. N.R.C. NOM. N N.A. NIC N.I.C. NTS NT.S. NO, NUM, #	Face of Concrete Face of Finish Face of Studs Face of Wall Field Verify Finish Fire Alarm Fire Extinguisher Fire Extinguisher Cabinet Fire Rated, Fire Retardant Fire Stand Pipe Fire Valve Cabinet Fireproof Fireproof Self Closing Fixture Flashing Flash Floor Floor Drain Fluorescent Foot, Feet Footing Foundation Fresh Air Intake Full Size Furnished by Others Furring Galvanize Gas Gauge General Contractor Glass Glass Fiber Reinforced Concrete Glass Fiber Reinforced Gypsum Grade Gross Square Feet Ground Gypsum Gypsum Wallboard Hardware Hardwood Head Heater Heating, Venting, Air Conditioning Height HPC High Point Highway H.C. Hollow Core Hollow Metal Horizontal Hose Bibb Hot Water Hour Inside Include Inside Diameter Insulation Interior Janitor Janitor's Closet Joint Joist Kitchen Knock Out Life Safety Laminate, Laminated Lavatory Left Hand Length Light Lightweight Low Point Manhole Manufacturer Masonry Opening Material Maximum Mechanical Mechanical, Electrical, Plumbing, Fire Protection Mechanical Equipment Room Medium Density Fireboard Membrane Metal Mezzanine Minimum Mirror Miscellaneous Mounted Mounting Multiple Noise Reduction Coefficient Nominal North Not applicable Not in Contact Not in Contract Not to Scale Number	OFF. O.C. OPNG. FOF FOS FOV FV FIN. F.A. F.E. F.E.C. F.R. F.S.P. F.V.C. F.P. FPSC FIX, FIXT FLASH FL, FLR F.D. FLUOR. FT. FTG. FDN. F.A.I. F.B.O. FURR. GALV. G. GA. G.C. GL G.F.R.C. G.F.R.G. GR. GSF GND GYP GYP, BD HDWR HDWD HD HTR HVAC HT. HPC H.P. HWY H.C. Hollow Core Hollow Metal Horizontal Hose Bibb Hot Water Hour Inside Include Inside Diameter Insulation Interior JAN J.C. JT. JST KIT. K.O. LS LAM. LAV. L.H. L LT L.W. L.P. MH MFR, MANUF M.O. MATL MAX MECH. MEPPF M.E.R. MDF MEMB. MTL MEZZ. MIN. MIR MISC. MTD. MTG. MULT. N.R.C. NOM. N N.A. NIC N.I.C. NTS NT.S. NO, NUM, # YD	Office On Center Opening Opposite Opposite Hand Outer Diameter (Dim.) Over Flow Drain Overall Overflow Roof Drain Paint Painted Pair Panel, Panelboard Perforated Perpendicular Plaster P-LAM Plate PLYWD. PT. PVC Polyvinyl Chloride PSF Pounds per Sq. Foot PC Precast Concrete PREFAB. PRT Pressure Treated PROJ Project PROP Property QTY Quantity Q.T. Quarry Tile R., RAD. RE, REF. REINF. Reinforced R.C.P. Reinforced Concrete Pipe R.A. Relieving Angle REQ. Required R.H. Right Hand Riser RD. Road R.D. Roof Drain RM.. Room R.O. Rough Opening RB Rubber Base SAB Sound Attenuation Batt SCHED. Schedule SEC. Second SECT. Section SHT. Sheet SIM. Similar S.C. Solid Core STC Sound Transmission Coefficient S South SPKR. Speaker SPEC. Specification S.F.P. Spray on Fireproofing SQ. Square S.F. Square Feet S.S. Stainless Steel ST Stair STD. Standard STA Station STL Steel STOR. Storage ST. Street STRUCT. Structural SUSP. Suspended SYM Symmetrical TEL. Telephone T.V. Television TEMP. Temporary THK Thick, Thickness T.&G. Tongue and Groove T.O. Top Of T.O.B. Top Of Beam T.O.C. Top Of Curb T.O.S. Top Of Sidewalk T.O.W. Top Of Wall T Tread TYP. Typical TW Through wall UNFIN. Unfinished UN.O. Unless Noted Otherwise V.I.F. Verify in Field VERT. Vertical VEST. Vestibule V.C.P. Vitrified Clay Pipe VCT. Vinyl Composition Tile VVC Vinyl Wallcovering W Water W.C. Water Closet WR. Water Resistant WP. Waterproofing WT Weight WWF Welded Wire Fabric W West W.F Wide flange W Width WIN Window W, W/O With, Without WD. Wood
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DIVISION 01: GENERAL

	BUILDING SECTION / DETAIL SECTION CALLOUT
	DETAIL REFERENCE CALLOUT
	BUILDING ELEVATION CALLOUT
	INTERIOR ELEVATION CALLOUT
	LEVEL / ELEVATION DESIGNATION
	DOOR TAG
	WALL ASSEMBLY TYPE TAG
	GLAZING ASSEMBLY TYPE TAG
	ROOM TAG
	DEMOLITION KEY NOTE TAG
	GENERAL KEY NOTE TAG
	MATERIAL / ACCESSORY KEY NOTE TAG
	EQUIPMENT KEY NOTE TAG
	CENTER LINES OF COL. / BLDG. GRIDS
	1 HR - FIRE RATED ASSEMBLY 2 HR - FIRE RATED ASSEMBLY 2 HOUR SMOKE - FIRE RATED ASSEMBLY 4 HOUR - FIRE RATED ASSEMBLY SMOKE - FIRE RATED ASSEMBLY
	NEW WALL
	EXISTING WALL

DIVISION 03: CONCRETE

	CAST-IN-PLACE CONCRETE
	PRECAST CONCRETE
	PRECAST CONCRETE WALL
	PRECAST CONCRETE COLUMN
	CAST-IN-PLACE CONCRETE WALL & CAST-IN-PLACE COLUMN

DIVISION 04: MASONRY

	BRICK
	CONCRETE MASONRY UNIT
	CUT STONE
	CAST STONE
	BRICK PAVER
	LIMESTONE
	QUARRY TILE
	GROUT

DIVISION 05: METALS

	STEEL IRON (LARGE SCALE)
	ALUMINUM
	OTHER METALS (TBD PER PROJECT)

DIVISION 06: WOOD AND PLASTICS

	WOOD (DIMENSION) (THROUGH MEMBER)
	WOOD BLOCKING (DIMENSION) (INTERRUPTED MEMBER)
	PLYWOOD
	WOOD (FINISH)
	HARDBOARD
	PARTICLE BOARD
	SOLID SURFACE MATERIAL

DIVISION 07: THERMAL & MOISTURE PROTECTION

	RIGID INSULATION
	FIREPROOFING / FIRESTOPPING INSULATION
	BLANKET INSULATION
	LOOSE FILL INSULATION
	SEALANT W/ BACKER ROD
	MEMBRANE WATERPROOFING & DRAINAGE MAT COMPOSITE SYSTEM
	SPRAY-ON FIREPROOFING

DIVISION 08: DOORS & WINDOWS

	GLASS INSULATING
	GLASS ELEVATION
	PLASTIC GLAZING
	NEW DOUBLE DOOR
	NEW SINGLE DOOR
	NEW SWINGING DOOR
	NEW DOUBLE ACTING DOOR
	EXISTING DOUBLE DOORS
	EXISTING SINGLE DOOR

DIVISION 09: FINISHES

	LATH AND PLASTER
	GYPSUM BOARD
	CERAMIC TILE
	CEILING PANEL
	CARPET



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SYMBOLS AND ABBREVIATIONS

sheet number

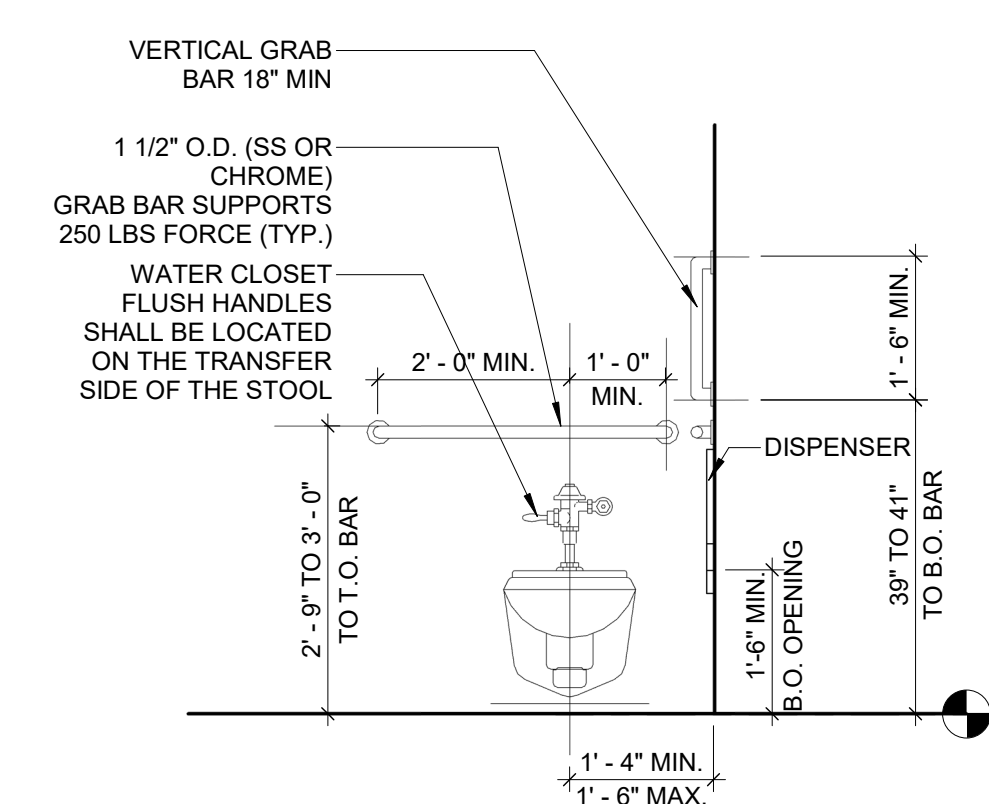
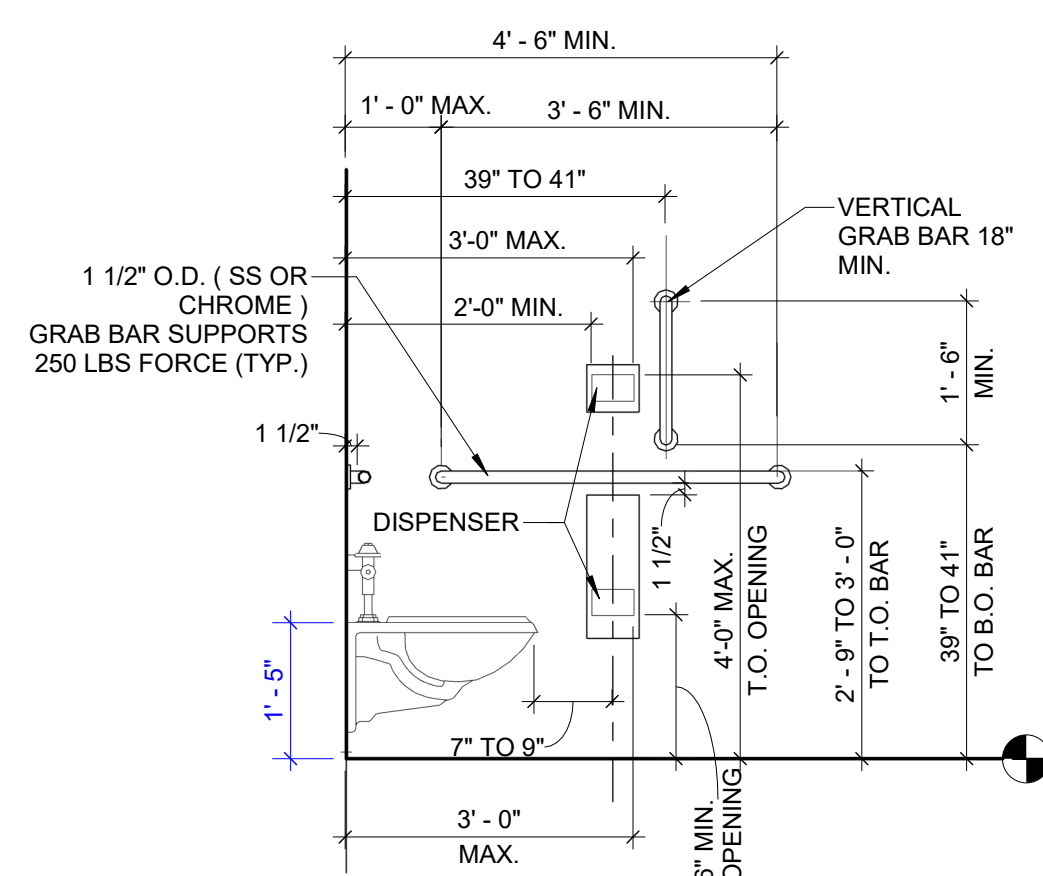
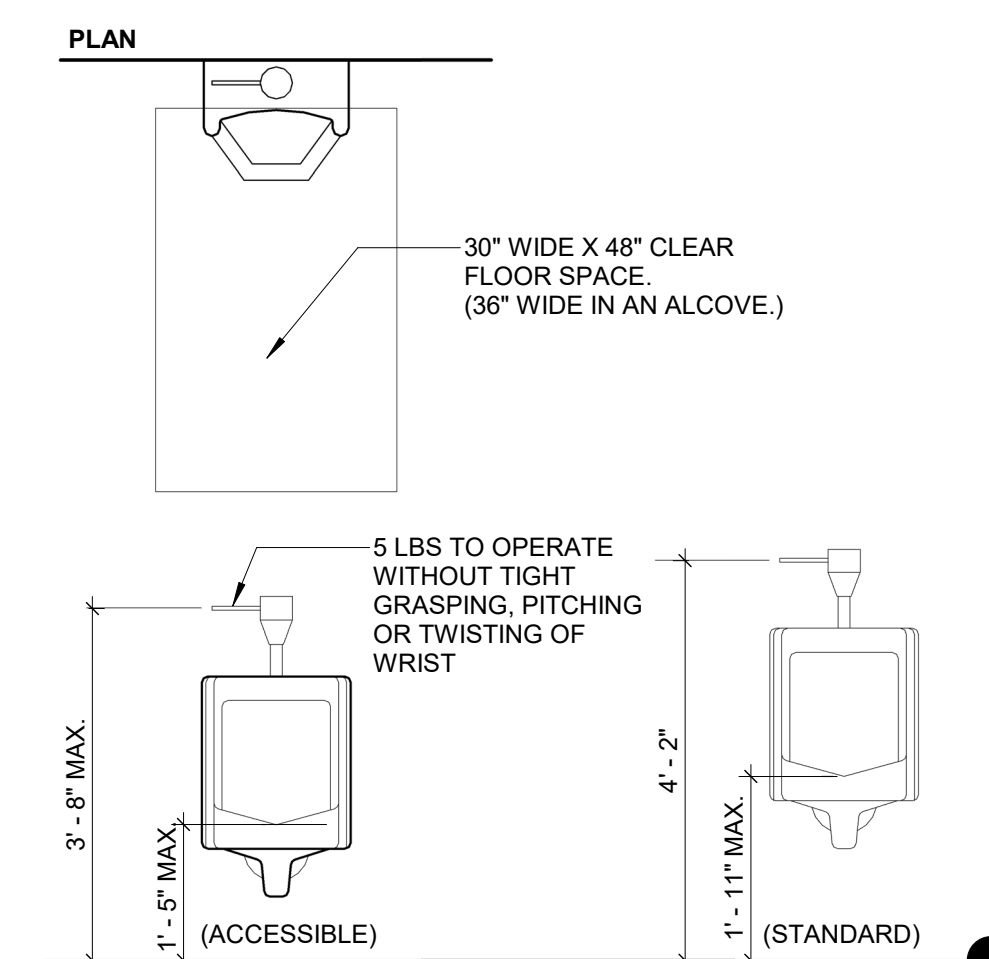
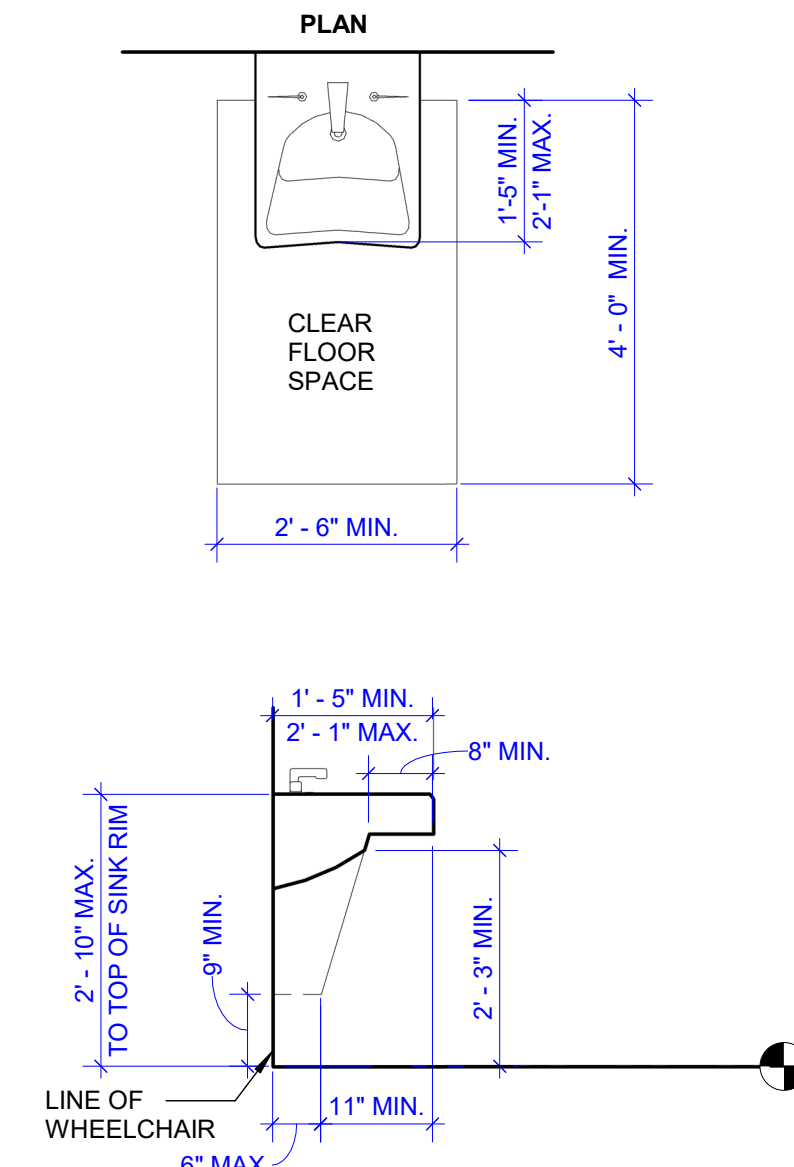
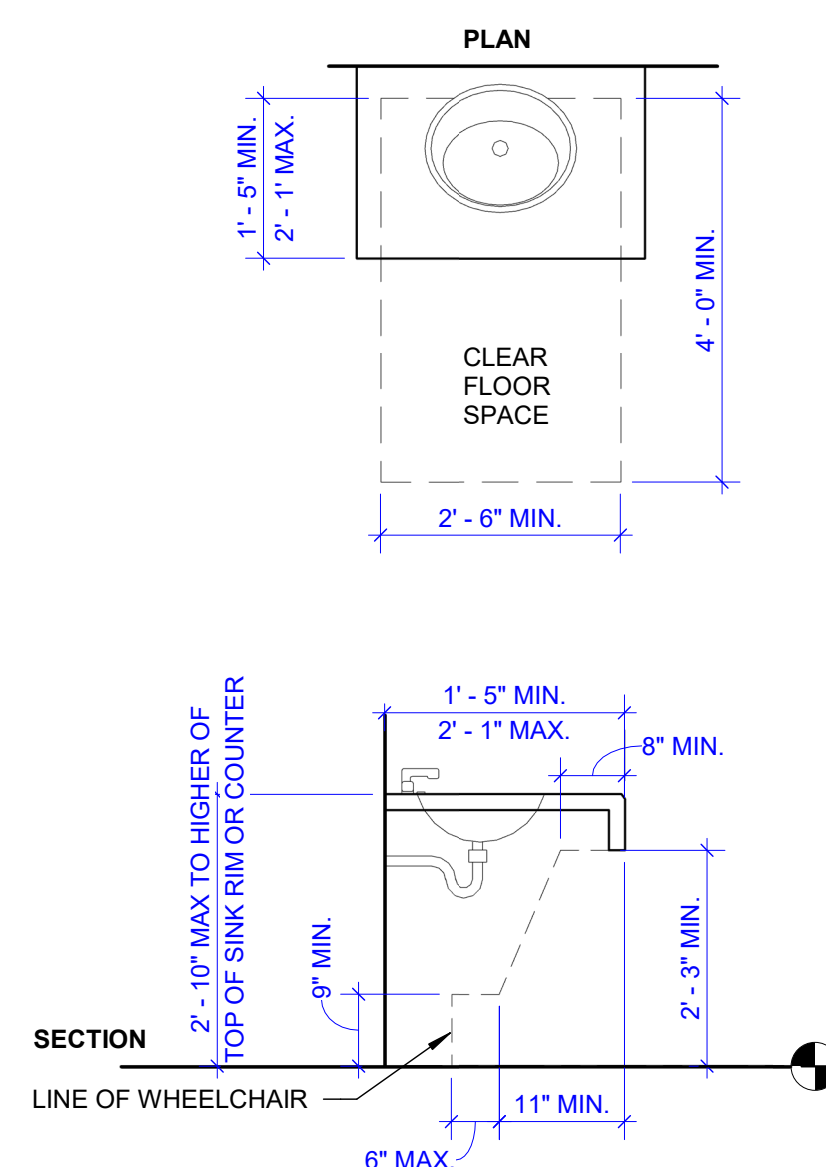
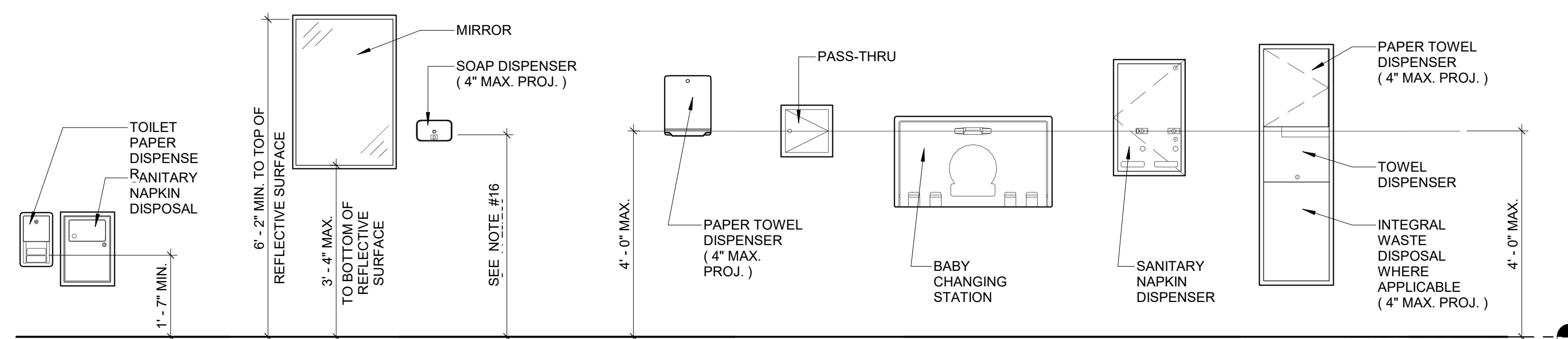
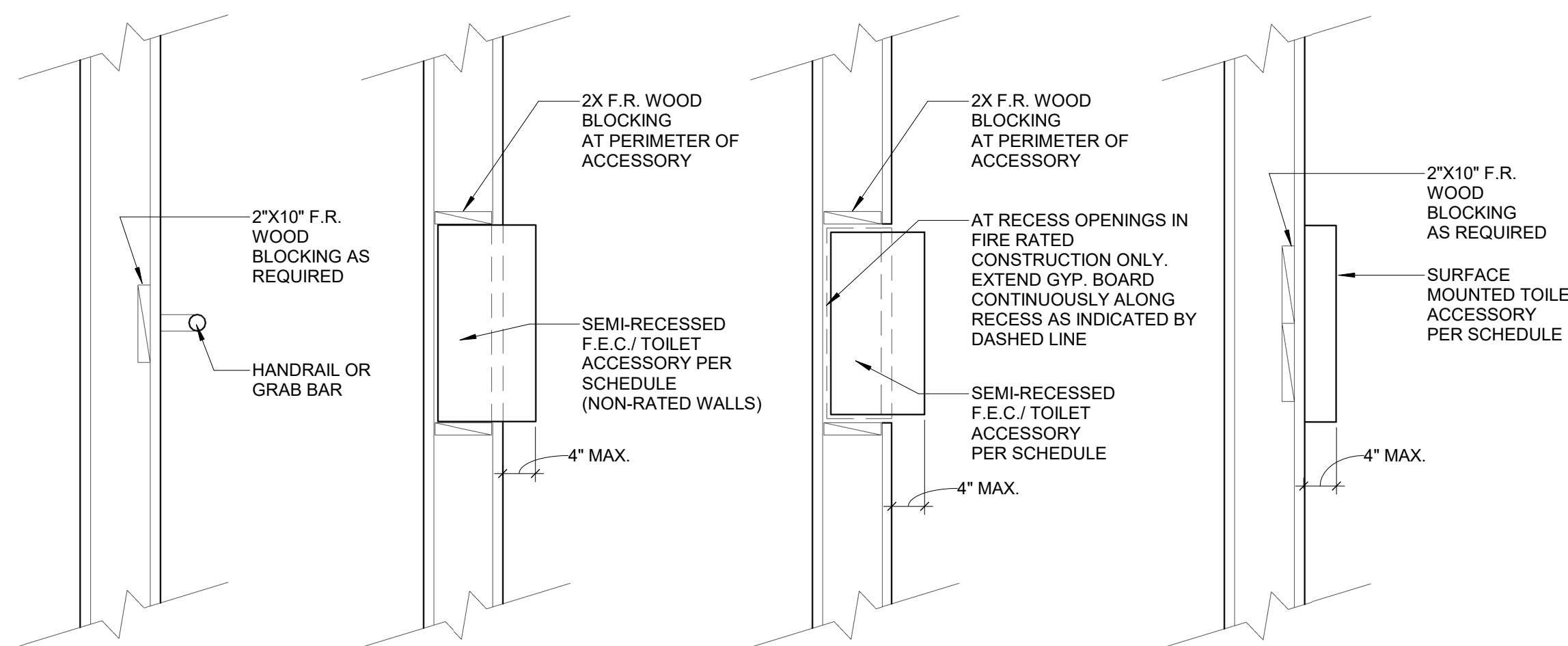
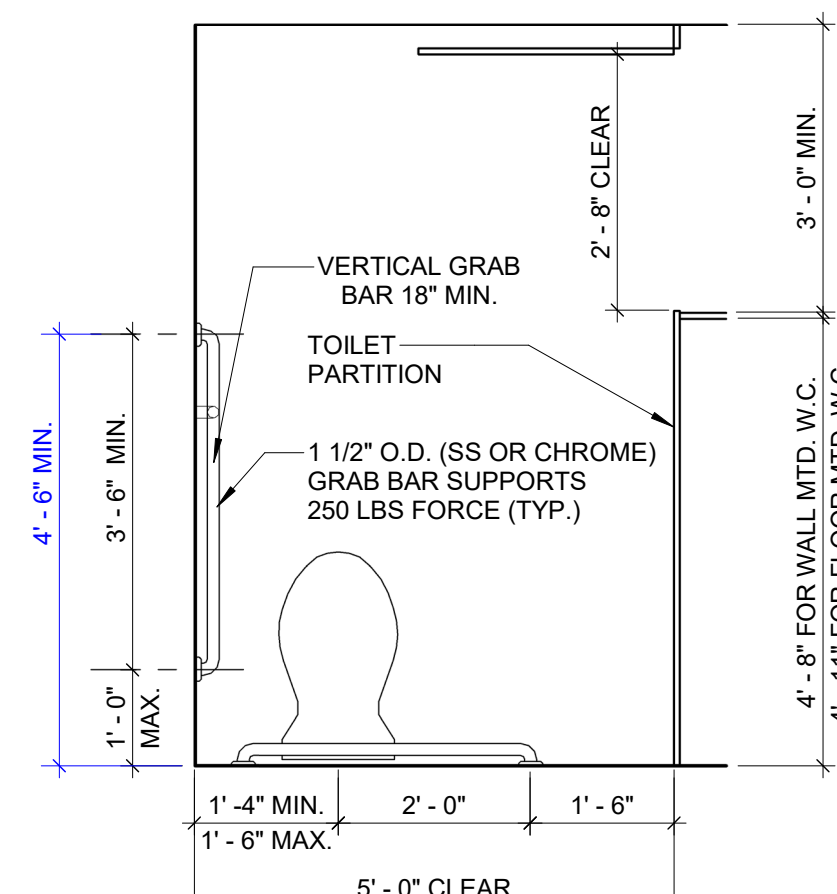
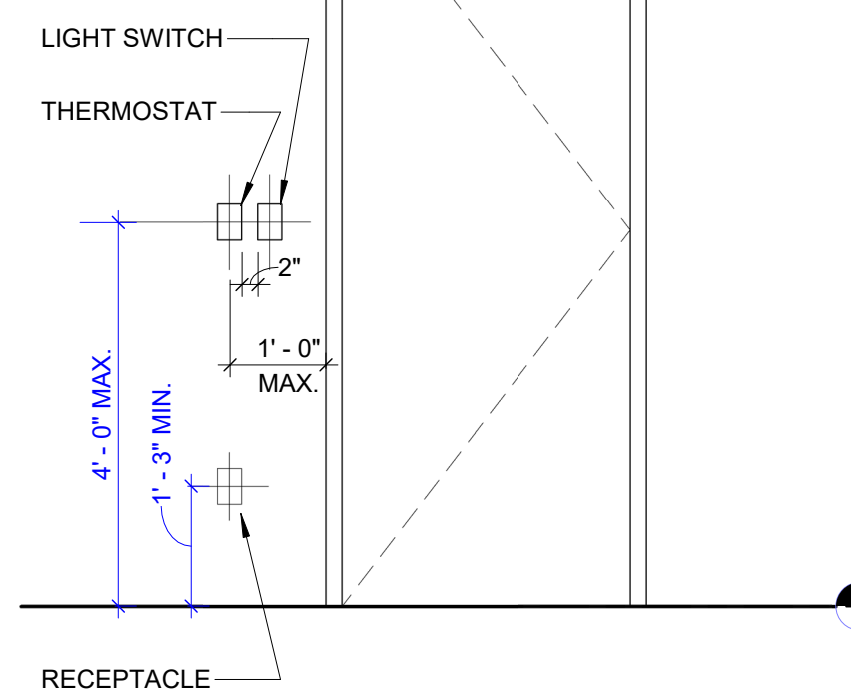
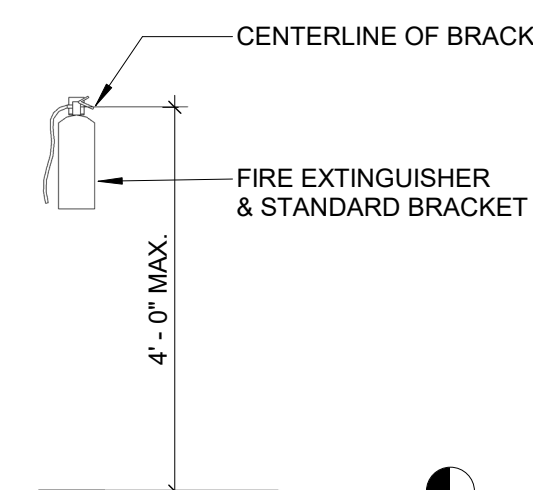
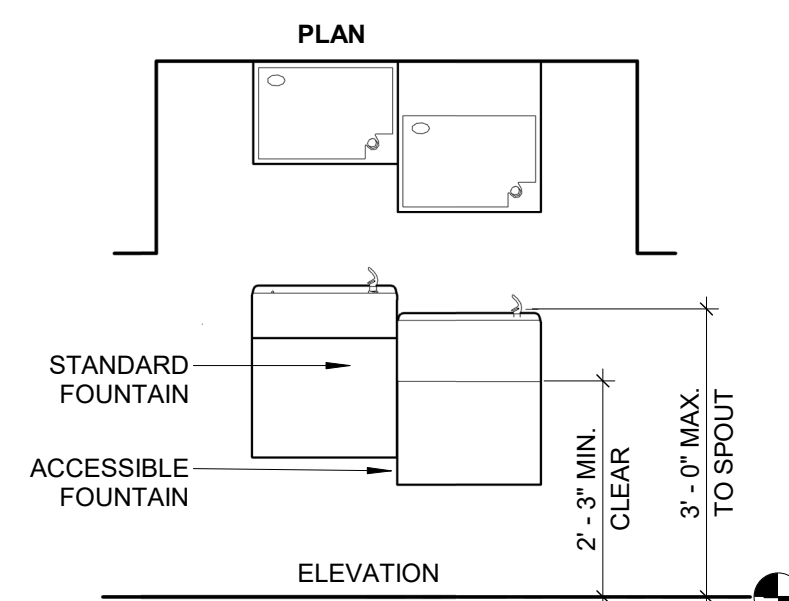
G001

ABBREVIATIONS

1/4" = 1'-0"

SYMBOLS

12" = 1'-0"



1. NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
2. ADA UNOBSTRUCTED REACH RANGES: ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
3. ELEVATORS: STANDARD CALL BUTTONS: 35" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP.) & 48" MAX. (3/4" SMALLEST DIA.) ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2" MIN. SPREAD DIST.) TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OF CHARACTERES W/ TACTILE STAR & 2" HIGH CHARACTERES.
4. DOOR HARDWARE (TO CENTER OF HARDWARE): STANDARD: REACHING HEIGHTS: PUSH PLATES = 42", PULL HANDLES = 42", KNOBS/ LEVERS = 40", PANIC EYE = 42". CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2". CENTER, HEIGHT = 16" MIN. (M.B. DOOR) FROM FLOOR. GLASS: STANDARD = 1/2" MAX. AT EXT. SLIDING DOORS = 3/4" MAX., ADA HARDWARE = 3/4" MIN. TO 48" MAX.
5. DRINKING FOUNTAINS & EWC'S (TO SPOUT): STANDARD = 38" MIN. TO 48" MAX. ADA = 36" MAX. (2" MIN. CLEAR KNEE SPACE).
6. COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN. TO 34" MAX.
7. WATER CLOSETS (TO TOP OF SEAT): STANDARD = 14" TO 19" ADA (TO TOP OF SEAT) = 17" TO 19" ADA. FLUSH CONTROLS = 44" MAX.
8. URINALS (TO RIM): STANDARD = 24" MAX. ADA = 17" MAX. ADA FLUSH CONTROLS = 44" MAX. LAUNDRIES (TO SINK RIM/ COUNTERTOP): STANDARD = 36" MIN. TO 48" MAX. ADA = 34" MAX. (29" MIN. CLEAR KNEE SPACE).
9. MIRRORS (TO B.O. REFLECTIVE SURFACE): STANDARD = VARIES. ADA = 40" MAX.
11. GRAB BARS - ADA (TO TOP OF BAR): WATER CLOSETS = 33" MIN. TO 48" MAX. SHOWERS = 33" MIN. TO 36" MAX. (FROM B.O. SHOWER). BATHTUBS: TOP BAR = 33" MIN. TO 36" MAX. BOT. BAR = 9" ABOVE T.O. TUB.
12. SHOWER HEADS (FROM FLOOR TO HEAD): STANDARD = 72" TO 80" MIN. SPRAY UNIT W/ HOSE 60" LONG MIN. ADA = FIXED SHOWER HEAD = 48" AFF.
13. SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 48" MAX. (TO TOP). ADA = 38" MIN. TO 48" MAX.
14. SHOWER ROD (FROM FLOOR TO C.L.): STANDARD = 78" MAX.
15. TOILET ROOM PARTITIONS: TOILETS = 12" BOT. & 70" TO TOP. URINALS = 18" TO BOT. & 60" TO TOP.
16. TOILET PAPER DISPENSERS (TO C.L. OF OUTLET): STANDARD = 24". ADA = 19" MIN. TO 24" MAX.
17. WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STANDARD = 40". ADA = VARIES. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX. ABOVE SINK IN STANDARD.
18. PAPER TOWEL DISPENSER WASTE RECYCLE: ADA (TO TOP OF DISPENSER): STANDARD = 44" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
19. WARM AIR HAND DRYER (TO PUSH SWITCH): STANDARD = 44" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
20. SANITARY NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
21. SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STANDARD = 28" MAX. ADA = 19" MIN. TO 24" MAX. (TO OPNG.).
22. EAT SEAT COIN DISPENSERS (TO OPNG.): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
23. SHELVES: ADA = 48" MAX.
24. COAT HOOKS: STANDARD = 68". ADA = 48" MAX.
25. CHALKBOARDS, TACKBOARDS, & MARKERBOARDS: STANDARD = 32" TO 39" (TO B.O. BOARD OR CHALKTRAY). STANDARD = 80" (RECOMMENDED) (TO B.O. BOARD). ADA: REACH: STANDARD: CONTROL DEVICES (TO TOP): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
27. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX. COIN-OPERATED RECEPTACLES - ELECTRICAL: TELEPHONE/ DATA (TO C.L.): STANDARD = 18" ADA = 15" MIN.
28. EXIT LIGHTS - WALL MOUNTED: 2" MIN. BELOW CEILING. 2" MIN. ABOVE DOOR FRAME. EQUAL SPACE FROM CEILING TO TOP OF FRAME.
30. FIRE EXTINGUISHERS (TO TOP, U. O.): GROSS WT. 40 LBS. OR LESS = 60" MAX. GROSS WT. MORE THAN 40 LBS. = 42" MAX. FIRE EXTINGUISHERS (TO BOTTOM): STANDARD = 40" MAX. ADA = 48" MAX.
31. FIRE ALARM PULL STATIONS (TO LEVER): STANDARD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
32. SMOKE AND/OR HEAT DETECTORS: STANDARD = 80" AFF. OR 6" BELOW CEILING - WHICHEVER IS LOWER.
33. HORN/ SPEAKER/ VISUAL SIGNALS: STANDARD = 80" AFF. OR 6" BELOW CEILING - WHICHEVER IS LOWER.
34. ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH. AFF. & WITHIN 18" OF LATCH SIDE OF DOOR.



FURNITURE MALL TENANT IMPROVEMENT

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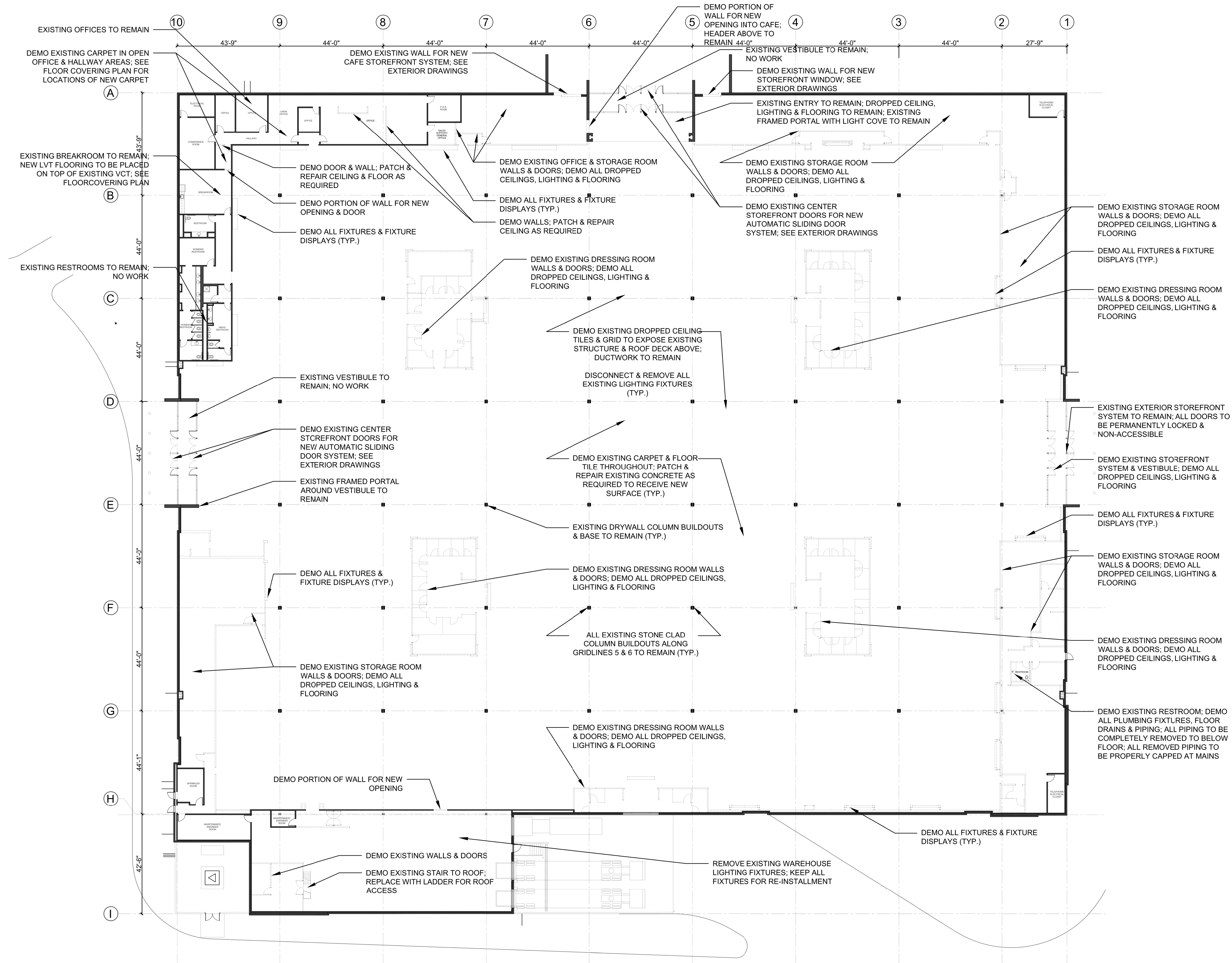
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ACCESSIBILITY GUIDELINES

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NOTES

G003



DEMO LEGEND

- EXISTING WALLS TO BE REMOVED
- EXISTING WALLS TO REMAIN
- EXISTING DOORS TO BE REMOVED
- EXISTING WINDOWS TO BE REMOVED

NOTES

- ALL AREAS AND COMPONENTS EXISTING TO REMAIN TO BE PROTECTED DURING DEMO .
- REMOVE ALL ABANDONED ELECTRICAL WIRING, CABLE, PIPING AND SURFACE MOUNTED CONDUIT AND RECEPTACLES, BACK TO ORIGINAL SOURCE, UNLESS OTHERWISE SPECIFIED.
- ALL CUTTING, PATCHING & DEMOLITION WORK TO BE CLOSELY COORDINATED WITH EXISTING CONDITIONS & REQUIRED NEW WORK.
- G.C. TO PATCH & FINISH PENETRATIONS OF EXISTING SURFACES TO MATCH ADJACENT SURFACES.



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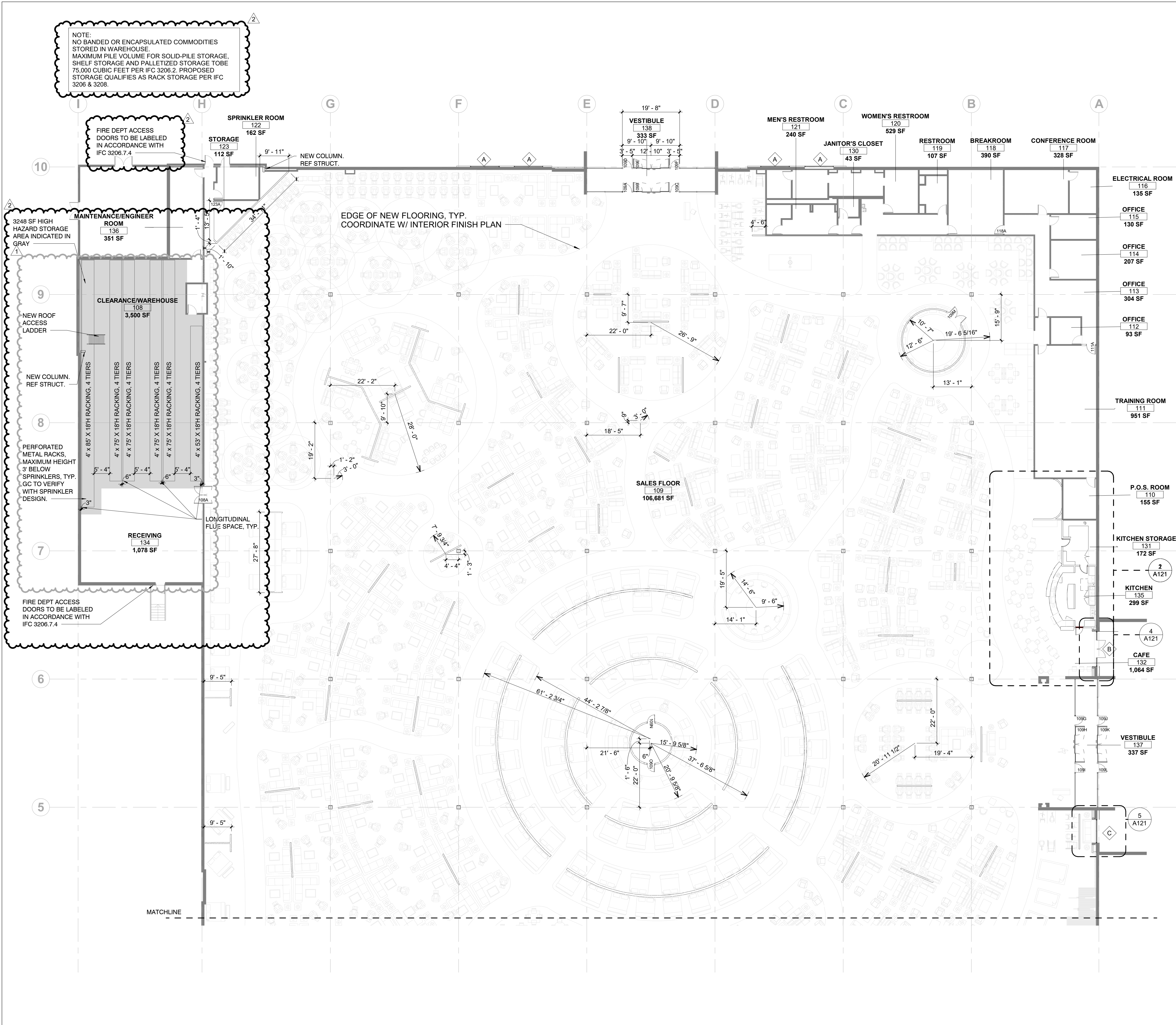
DEMOLITION PLAN

sheet number

AD110

DEMOLITION PLAN


NTS



1	FLOOR PLAN
	1/16" = 1'-0"

- GENERAL NOTES - FLOOR PLANS:**
- DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
 - DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO HINGE SIDE OF THE DOOR, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
 - ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
 - ALL PUBLIC SPACES: THE WALLS WILL BE FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 FINISH AND PAINTED, UNLESS NOTED OR SPECIFIED OTHERWISE.
 - RE: FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
 - ALL GLAZING IN CODE SPECIFIED "HAZARDOUS LOCATIONS" (i.e. DOORS, SIDE LITES, ETC.) SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS AS OUTLINED IN SECTIONS 2406 AND 2406.3 OF THE IBC.
 - CONTRACTOR TO COORDINATE WITH OWNER AND INTERIOR FINISHES PLAN EXACT STORE MERCHANDISE LAYOUT AND MOVABLE WALL LOCATIONS.
 - CONTRACTOR TO PROVIDE AND DESIGN SPRINKLER MODIFICATION FOR NEW WORK AREAS PER CURRENT CODE. CONTRACTOR TO VERIFY EXISTING SYSTEM. SHOP DRAWINGS TO BE SUBMITTED TO AND APPROVED BY GOVERNING AUTHORITIES AND ARCHITECT.
 - ALL EXISTING EXIT DOORS HAVE PANIC HARDWARE. CONTRACTOR TO VERIFY ALL DOORS AND HARDWARE FUNCTION PROPERLY.
 - PROVIDE AND INSTALL FIRE EXTINGUISHERS. COORDINATE SIZE AND LOCATION WITH FIRE DEPARTMENT.
 - CONTRACTOR TO PATCH AND REPAIR FINISHES TO REMAIN TO MATCH EXISTING ADJACENT FINISHES AND CONSTRUCTION WHERE AFFECTED BY FLOOR SLAB SAW CUTTING. POUR BACK CONCRETE INFILL TO MATCH EXISTING ADJACENT CONCRETE SUBFLOOR AND PREPARE FOR NEW FINISHES PER THE OWNER.

	NOTES
	1/4" = 1'-0"




FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

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1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

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project number	2021-055	
date	02.10.2022	
issued for	PERMIT	
rev	date	description
1	3/18/22	ADD #1
2	4/15/22	ADD #2

FLOOR PLAN

sheet number

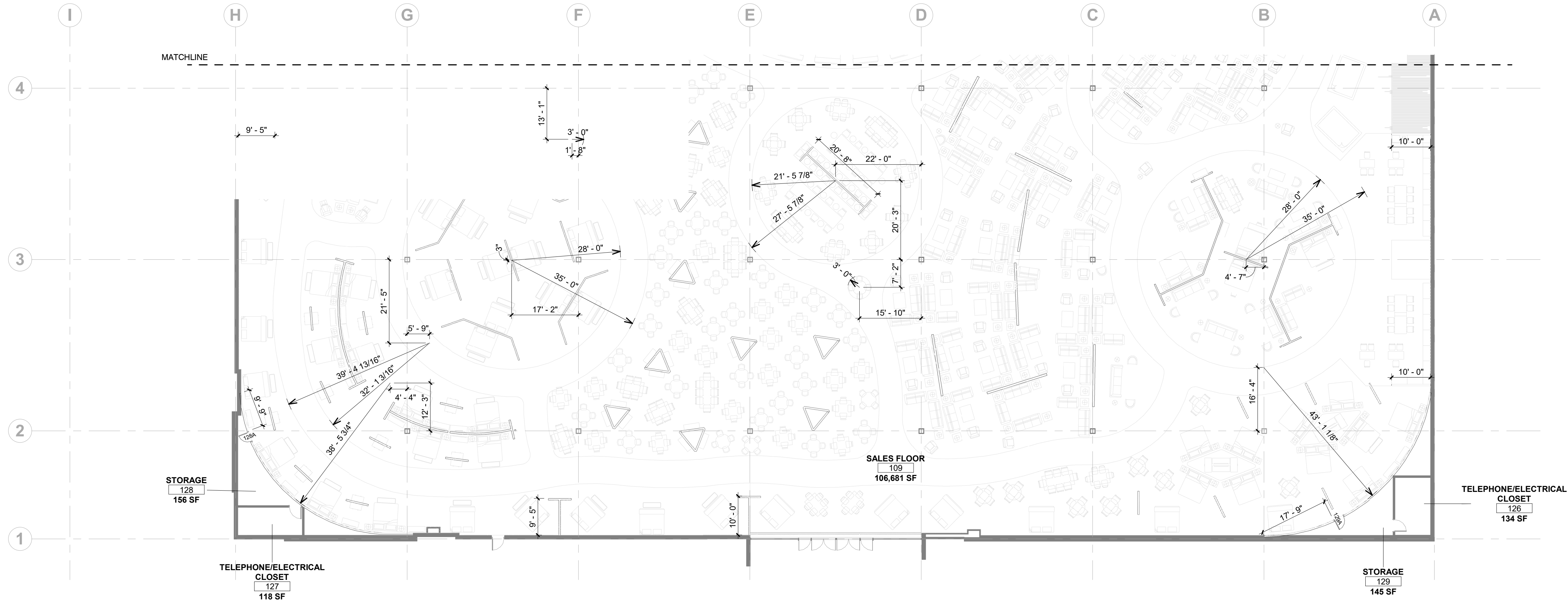
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C	QTY: 1	O	QTY: 17
D	QTY: 8	P	QTY: 24
E	QTY: 7	Q	QTY: 18
F	QTY: 4	R	QTY: 10
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I	QTY: 9	U	QTY: 3
J	QTY: 1	V	QTY: 3
K	QTY: 2	W	N/A
L	QTY: 1		

MERCHANDISE PLAN

NTS



GENERAL NOTES - FLOOR PLANS:

- DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
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- CONTRACTOR TO COORDINATE WITH OWNER AND INTERIOR FINISHES PLAN EXACT STORE MERCHANDISE LAYOUT AND MOVABLE WALL LOCATIONS.
- CONTRACTOR TO PROVIDE AND DESIGN SPRINKLER MODIFICATION FOR NEW WORK AREAS PER CURRENT CODE, CONTRACTOR TO VERIFY EXISTING SYSTEM, SHOP DRAWINGS TO BE SUBMITTED TO AND APPROVED BY GOVERNING AUTHORITIES AND ARCHITECT.
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- PROVIDE AND INSTALL FIRE EXTINGUISHERS. COORDINATE SIZE AND LOCATION WITH FIRE DEPARTMENT.
- CONTRACTOR TO PATCH AND REPAIR FINISHES TO REMAIN TO MATCH EXISTING ADJACENT FINISHES AND CONSTRUCTION WHERE AFFECTED BY FLOOR SLAB SAW CUTTING. POUR BACK CONCRETE INFILL TO MATCH EXISTING ADJACENT CONCRETE SUBFLOOR AND PREPARE FOR NEW FINISHES PER THE OWNER.

FURNITURE MALL TENANT IMPROVEMENT

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rev date description

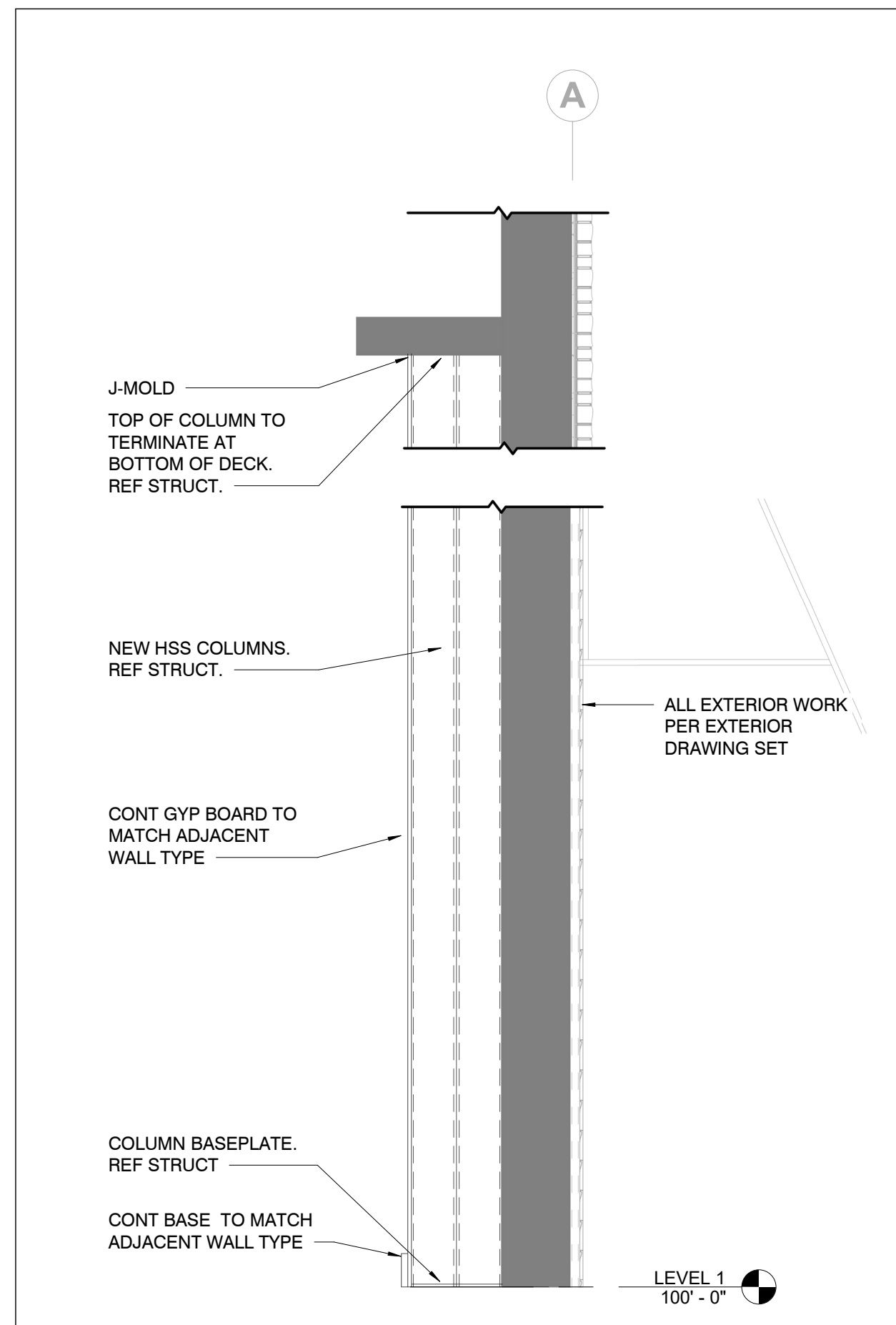
FLOOR PLAN

sheet number

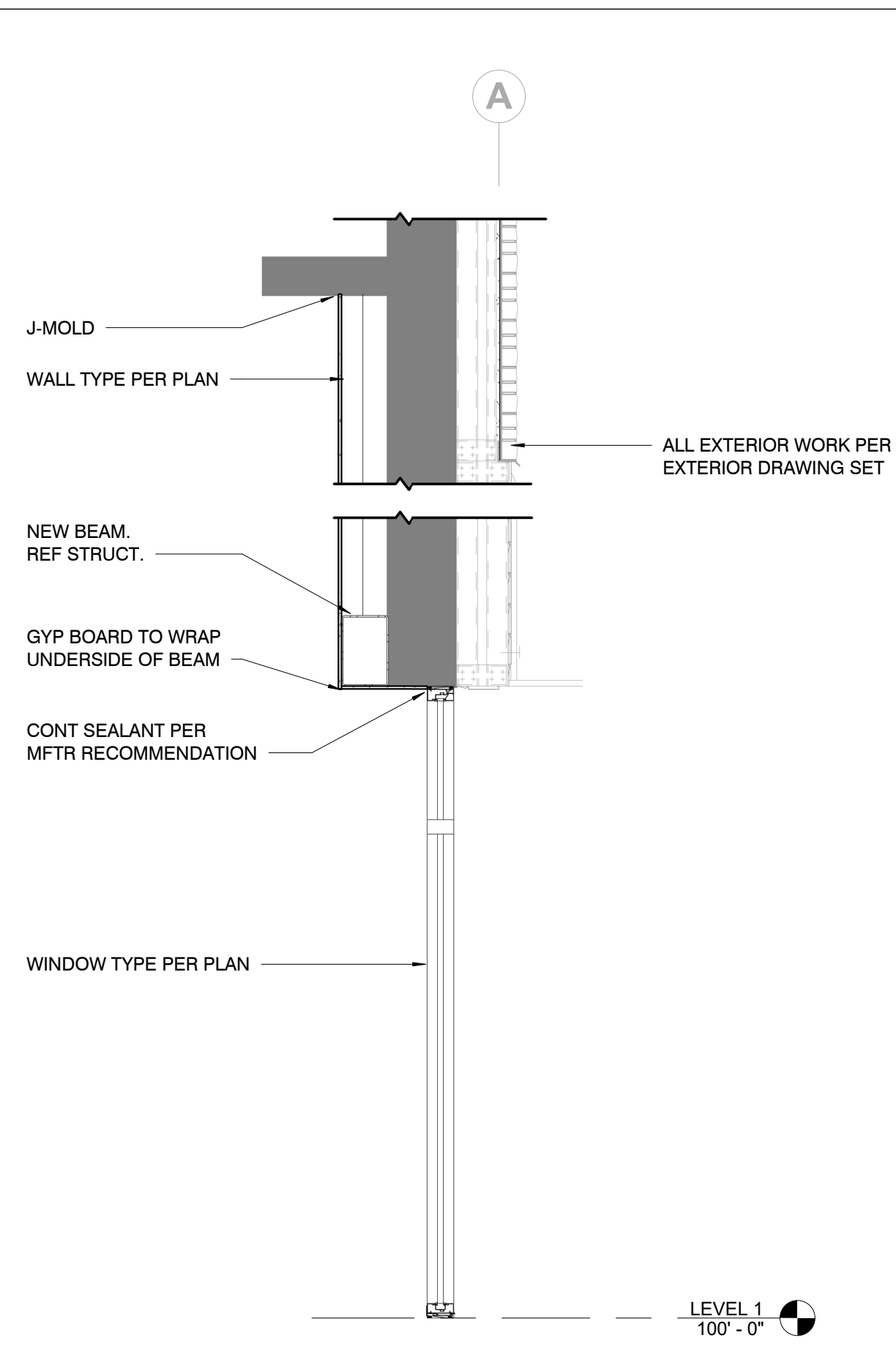
NOTES

1/4" = 1'-0"

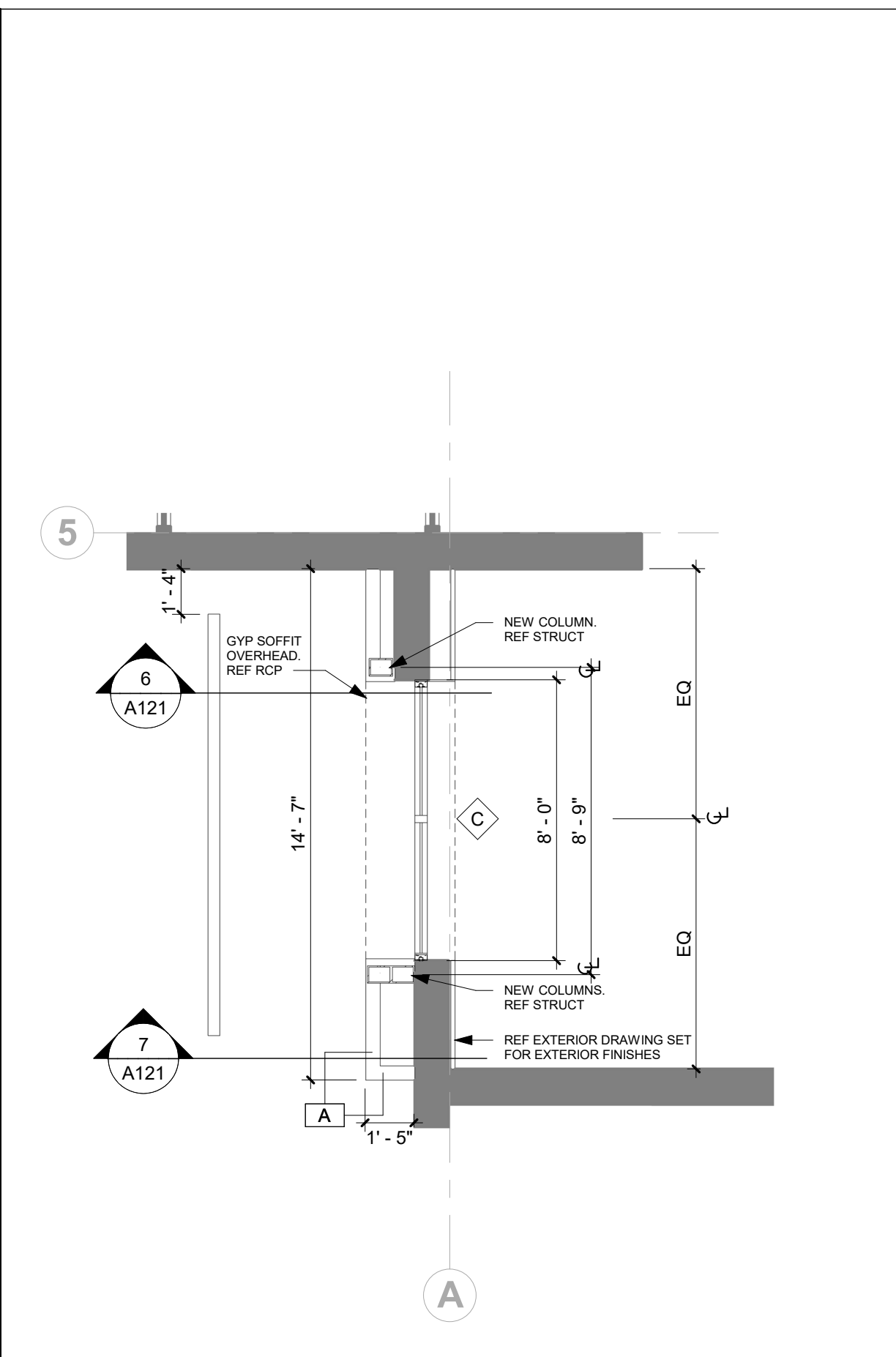
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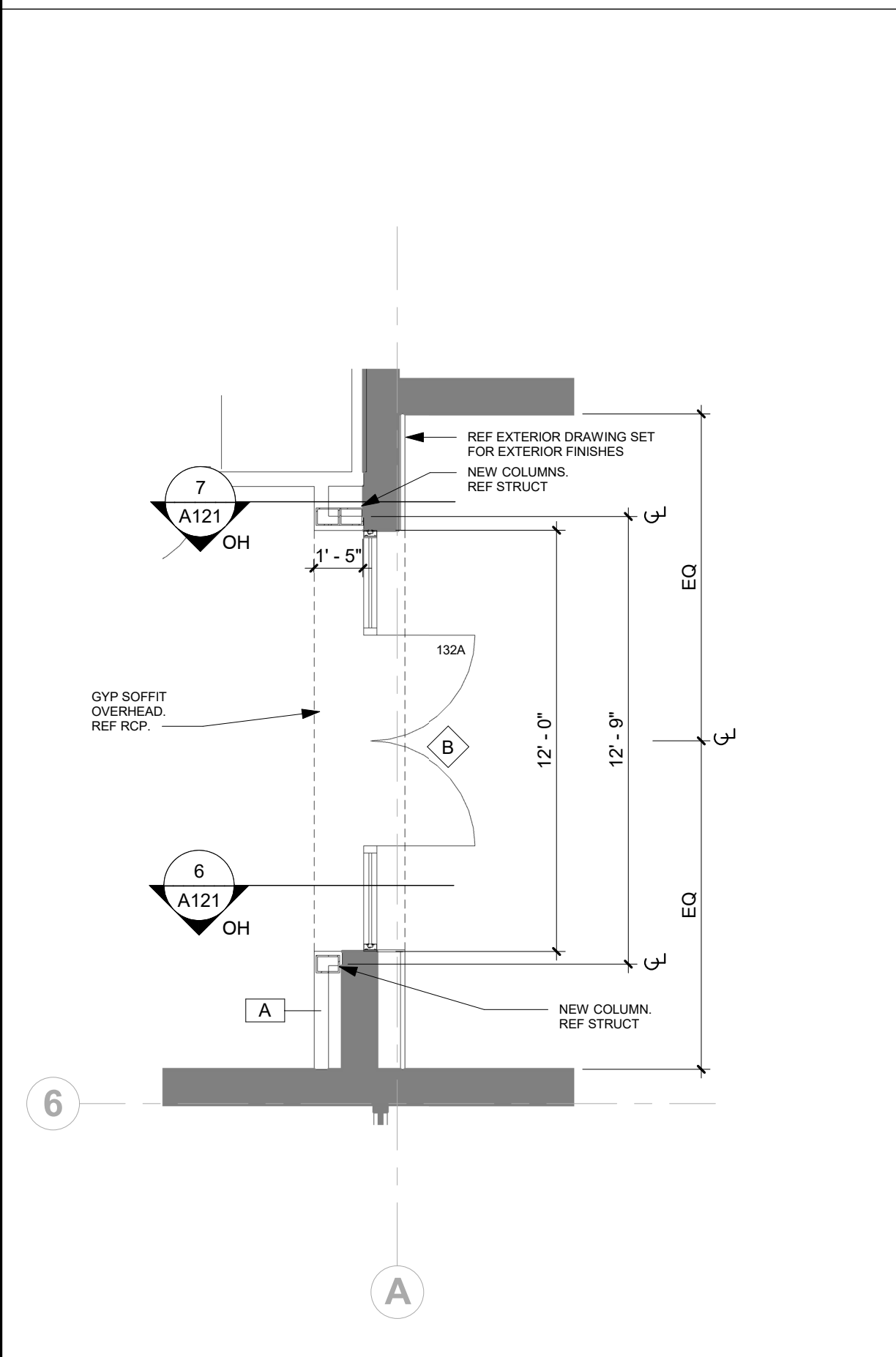
7	WALL SECTION
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$$1/2'' = 1'-0''$$


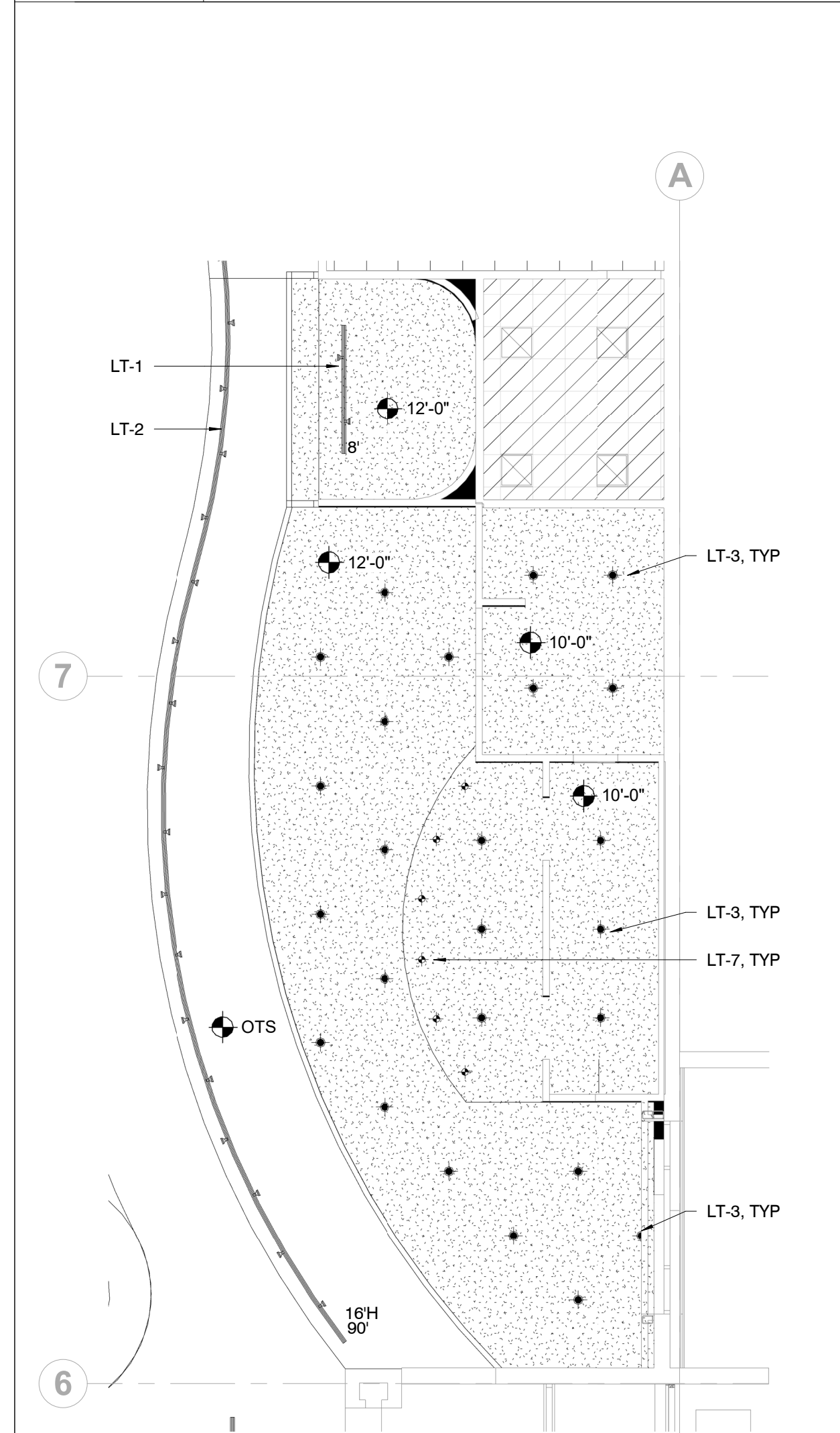
6	WALL SECTION
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$$1/2'' = 1'-0''$$


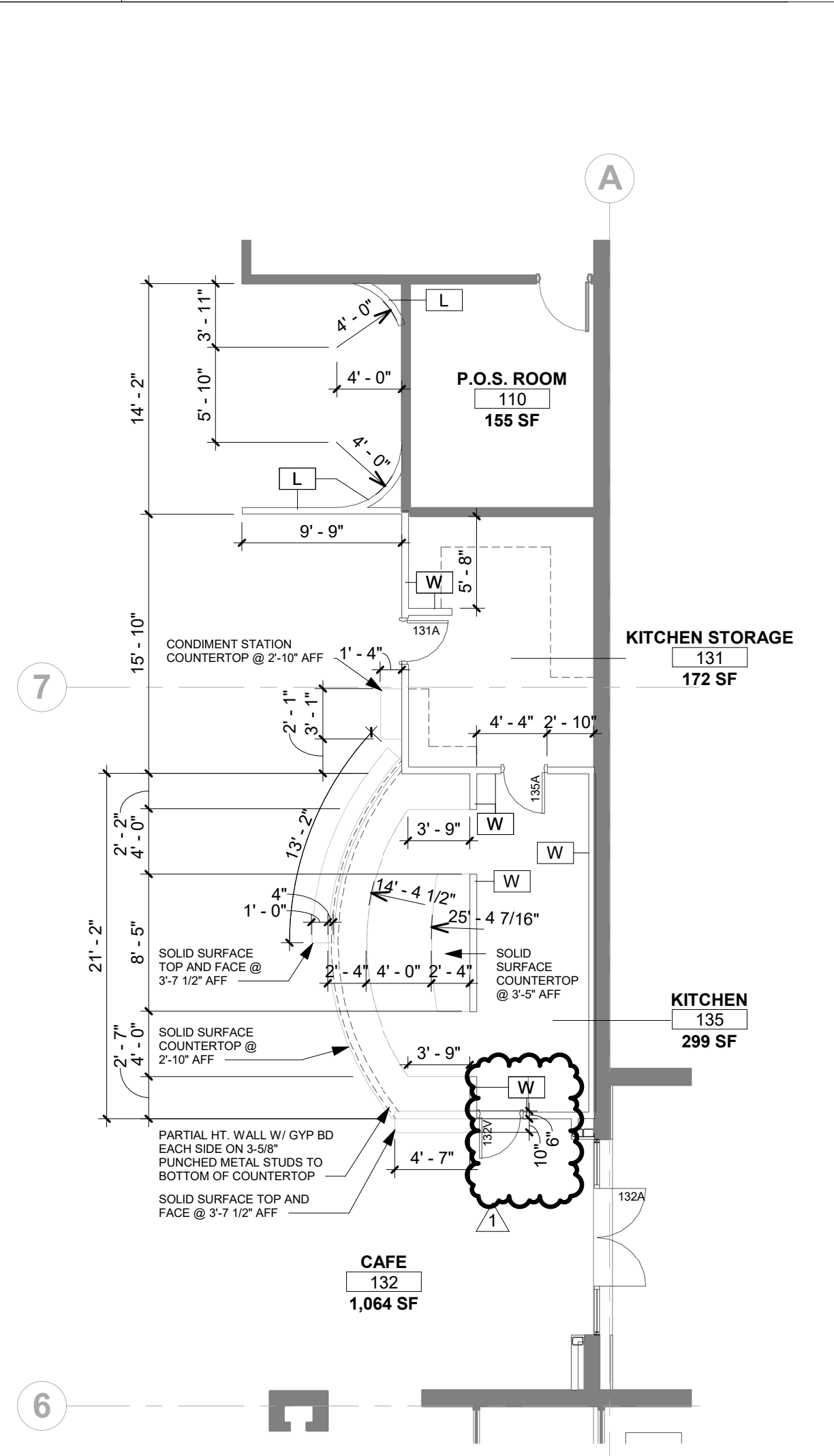
5 ENLARGED FLOOR PLAN

$$1/4'' = 1'-0''$$


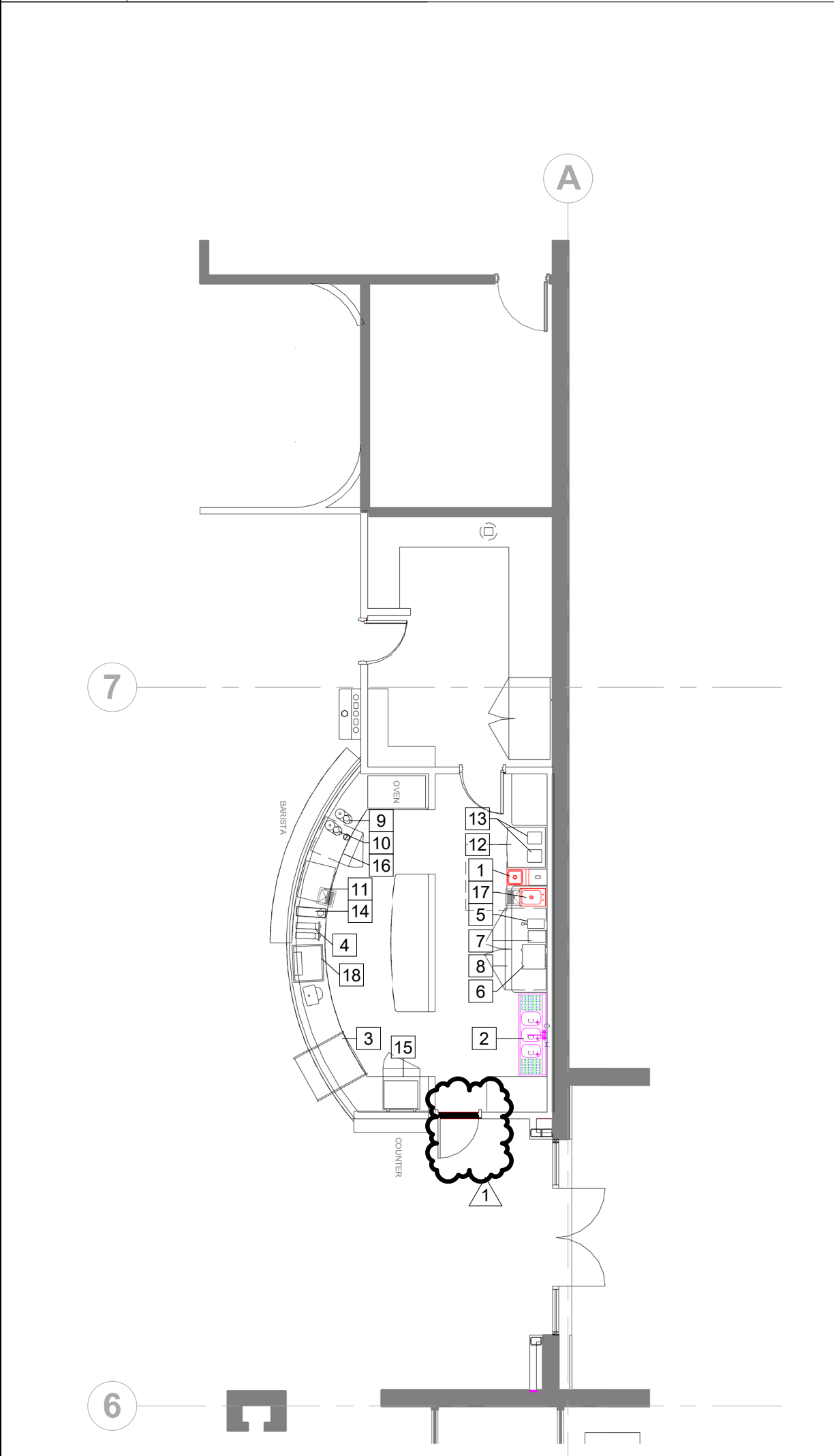
4	ENLARGED FLOOR PLAN
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$$1/4" = 1'-0"$$


3	ENLARGED CAFE RCP
---	-------------------

$$1/8'' = 1'-0''$$


2	ENLARGED CAFE PLAN
---	--------------------

$$1/8'' = 1'-0''$$


1	ENLARGED CAFE FIXTURE PLAN
---	----------------------------

$$1/8'' = 1'-0''$$

EQUIPMENT SCHEDULE				
MARK	QTY	MANUFACTURER	EQUIPMENT	MODEL NUMBER
1	1	ADVANCE TABCO	SINK, DROP-IN	D1-I-1-SP
2	1	KROWNE METAL	UNDERBAR SINK	21-53C
3	1	STRUCTURAL CONCEPTS	DISPLAY CASE, MULTI TEMPERATURE	C323667
4	6	SAN JAMAR	DISPENSER, CUP	C2210C18
5	1	BUNN-O-MATIC	DISPENSER, HOT WATER	H5X
6	1	FETCO	COFFEE MAKER, AUTOMATIC	CBS-2032E
7	1	DITTING	COFFEE GRINDER	120V 750W
8	1	TRUE FOOD SERVICE	REFRIGERATOR, UNDERCOUNTER, COMPACT	TUC-60
9	1	ANFIM BEST	COFFEE GRINDER	ECA
10	1	MAZZER	COFFEE GRINDER	ROBUR
11	1	LA MARZOCCO	ESPRESSO MACHINE	LINEA EE 2GRP
12	1	MANITOWOC ICE	ICE MAKER W/ BIN	QD-0272A
13	2	BLENDTEC	ON COUNTER BLENDER	EZ SERIES
14	1	ESPRESSO PARTS	SINK, MISC.	PITCHER RINSER
15	1	TURBO AIR	FREEZER, WORKTOP	TWF-28SD
16	1	TRUE FOOD SERVICE	REFRIGERATOR, UNDERCOUNTER, COMPACT	TUC-27-ADA
17	1	ADVANCE TABCO	HAND SINK, WALL MOUNT	7-PS-56
18	1	PACIFIC STAINLESS PRODUCTS	DRIP TRAY, DROP-IN	DP20X24 CUSTOM

GENERAL NOTES - FLOOR PLANS:

1. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG). FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
2. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO FACE OF THE DOOR. ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
3. ALL DOORS AND WINDOWS WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
4. ALL PUBLIC SPACES: THE WALLS WILL BE FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 FINISH AND PAINTED, UNLESS NOTED OR SPECIFIED OTHERWISE.
5. RE: FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
6. ALL GLAZING IN CODE SPECIFIED "HAZARDOUS LOCATIONS" (i.e. DOORS, SIDE LITES, ETC.) SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS AS OUTLINED IN SECTIONS 2406 AND 2406.3 OF THE IBC.
7. CONTRACTOR TO COORDINATE WITH OWNER AND INTERIOR FINISHES PLAN EXACT STORE MERCHANDISE LAYOUT AND AVAILABLE WALL LINE.
8. CONTRACTOR TO PROVIDE AND DESIGN SPRINKLER MODIFICATION FOR NEW WORK AREAS PER CURRENT CODE. CONTRACTOR TO VERIFY EXISTING SYSTEM, SHOP DRAWINGS TO BE CHECKED AND APPROVED BY GOVERNING AUTHORITIES AND ARCHITECT.
9. ALL EXISTING EXIT DOORS HAVE PANIC HARDWARE. CONTRACTOR TO VERIFY ALL DOORS AND HARDWARE FUNCTION PROPERLY.
10. PROVIDE AND INSTALL FIRE EXTINGUISHERS. COORDINATE SIZE AND LOCATION WITH FIRE DEPARTMENT.
11. CONTRACTOR TO PATCH AND REPAIR FINISHES TO REMAIN TO MATCH EXISTING ADJACENT FINISHES AND CONSTRUCTION WHERE AFFECTED BY FLOOR SLAB SAW CUTTING. POUR BACK CONCRETE INFILL TO MATCH EXISTING. PATCH AND CONCRETE SUBFLOOR AND PREPARE FOR NEW FINISHES PER THE OWNER.

NOTES

$$1/4'' = 1'-0''$$


FURNITURE MALL TENANT IMPROVEMENT

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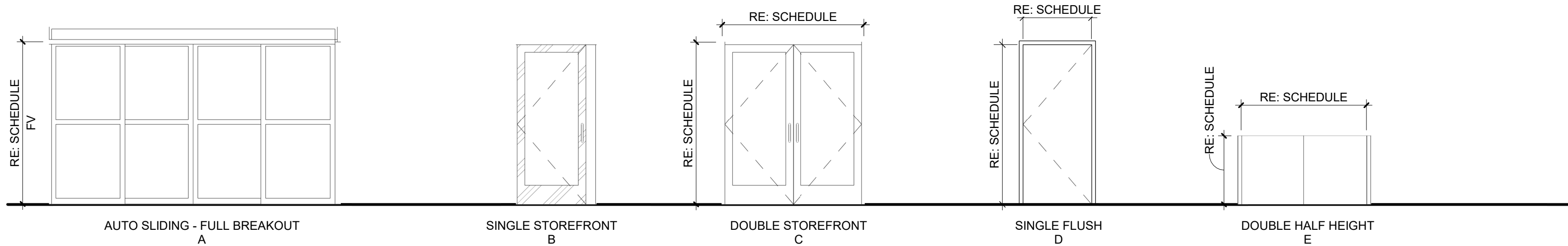
rev	date	description
1	3/18/22	ADD #1

ENLARGED FLOOR PLANS AND WALL SECTIONS

sheet number

A121

DOOR SCHEDULE										
DOOR #	ROOM: NAME	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	FRAME MATERIA L	HARDWARE	HEAD	JAMB	REMARKS
108A	CLEARANCE/WAREHOUSE	6' - 0"	7' - 0"	WD	D	HM	STORERROOM - DOUBLE ACTING	2/A511	1/A511	
109A	SALES FLOOR	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109B	SALES FLOOR	12' - 5"	7' - 0"	AL/GL	A	AL	EGRESS	PER MFTR	PER MFTR	
109C	SALES FLOOR	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109D	VESTIBULE	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109E	VESTIBULE	12' - 5"	7' - 0"	AL/GL	A	AL	EGRESS	PER MFTR	PER MFTR	
109F	VESTIBULE	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109G	SALES FLOOR	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109H	SALES FLOOR	12' - 5"	7' - 0"	AL/GL	A	AL	EGRESS	PER MFTR	PER MFTR	
109I	SALES FLOOR	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109J	VESTIBULE	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109K	VESTIBULE	12' - 5"	7' - 0"	AL/GL	A	AL	EGRESS	PER MFTR	PER MFTR	
109L	VESTIBULE	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109M	SALES FLOOR	5' - 6"	3' - 0"	WD	E	HM	PASSAGE		1/A511	
109N	SALES FLOOR	2' - 6"	7' - 0"	WD	D	HM	STORERROOM	2/A511	1/A511	
109O	SALES FLOOR	2' - 6"	7' - 0"	WD	D	HM	STORERROOM	2/A511	1/A511	
111A	TRAINING ROOM	3' - 0"	7' - 0"	WD	D	HM	PASSAGE	2/A511	1/A511	
118A	BREAKROOM	3' - 0"	7' - 0"	WD	D	HM	PASSAGE	2/A511	1/A511	
123A	STORAGE	3' - 0"	7' - 0"	WD	D	HM	STORERROOM	2/A511	1/A511	
128A	STORAGE	2' - 6"	7' - 0"	WD	D	HM	STORERROOM	2/A511	1/A511	
129A	SALES FLOOR	2' - 6"	7' - 0"	WD	D	HM	STORERROOM	2/A511	1/A511	
131A	KITCHEN STORAGE	2' - 6"	7' - 0"	WD	D	HM	STORERROOM	2/A511	1/A511	
132A	CAFE	6' - 0"	7' - 0"	AL/GL	C	AL	EGRESS	PER MFTR	PER MFTR	
135A	KITCHEN	2' - 6"	7' - 0"	WD	D	HM	STORERROOM	2/A511	1/A511	



DOOR TYPES

1/4" = 1'-0"

NOTES

1 1/2" = 1'-0"

- GENERAL NOTES:
- HM REFERS TO HOLLOW METAL
 - AL REFERS TO ALUMINUM
 - WD REFERS TO WOOD
 - ALL EXTERIOR ALUMINUM DOORS & FRAMES ARE TO BE FINISHED TO MATCH ADJACENT ALUMINUM WINDOW FRAME, U.N.O.
 - REFER TO FINISH SCHEDULE FOR FINISH OF INTERIOR DOORS AND FRAMES.
 - ALL GLAZING IN CODE SPECIFIED "HAZARDOUS LOCATIONS" (i.e. DOORS, SIDE LITES, ETC.) SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS AS OUTLINED IN SECTIONS 2406 AND 2406.3 OF THE IBC.



FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

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DOOR TYPES AND SCHEDULE

sheet number

A511



FURNITURE MALL TENANT
IMPROVEMENT

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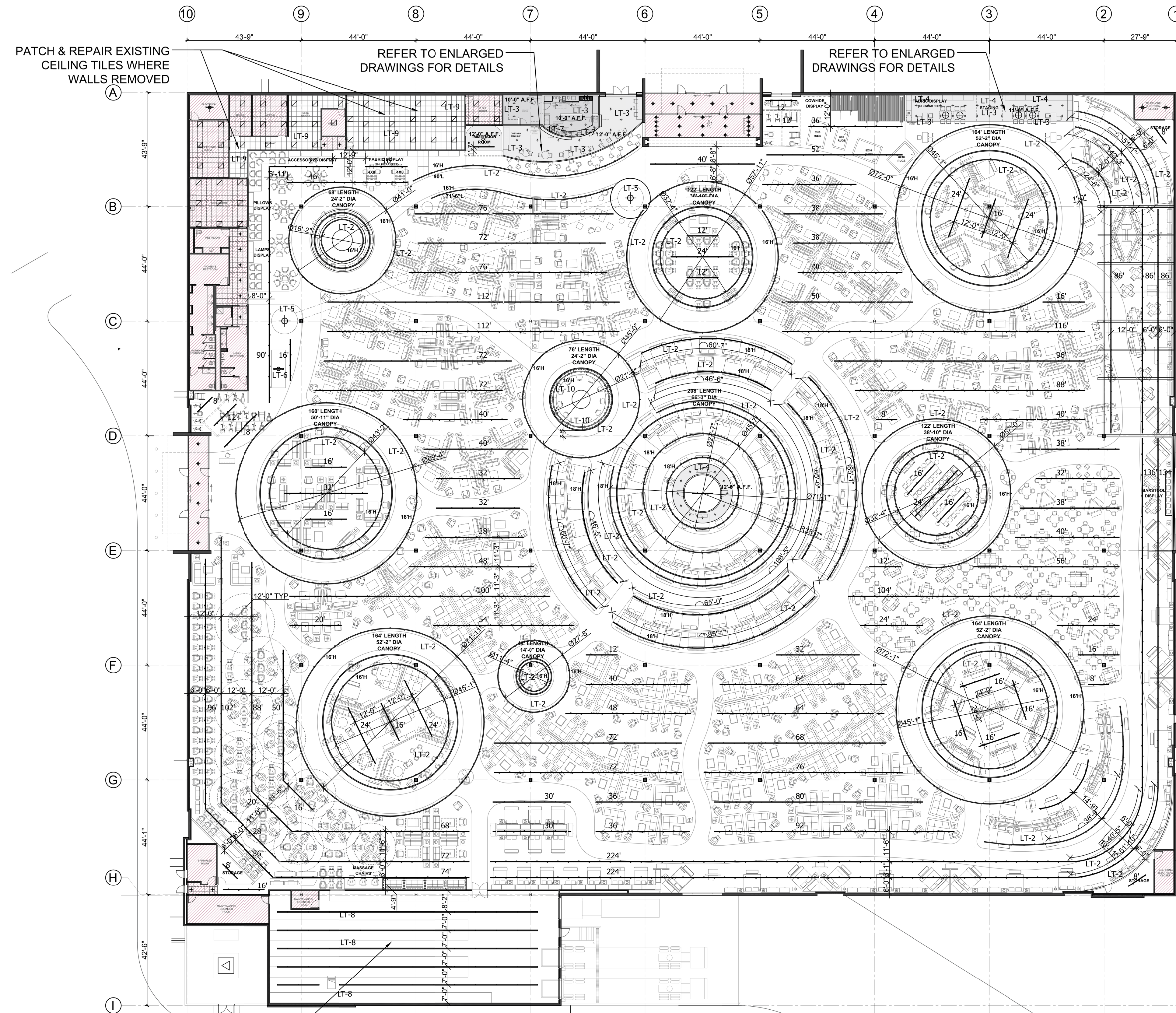


project number	2021-055	
date	02.10.2022	
issued for	PERMIT	
rev	date	description

REFLECTED
CEILING PLAN

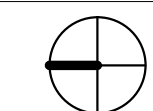
sheet number

A611



REFLECTED CEILING PLAN

NTS





FURNITURE MALL TENANT
IMPROVEMENT

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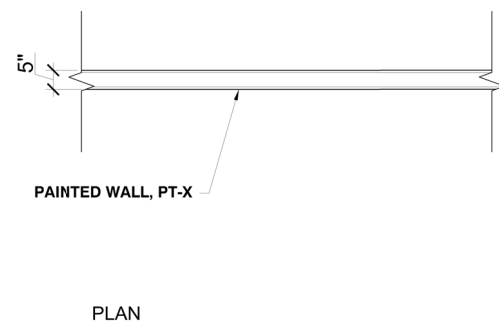
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rev	date	description
1	3/18/22	ADD #1

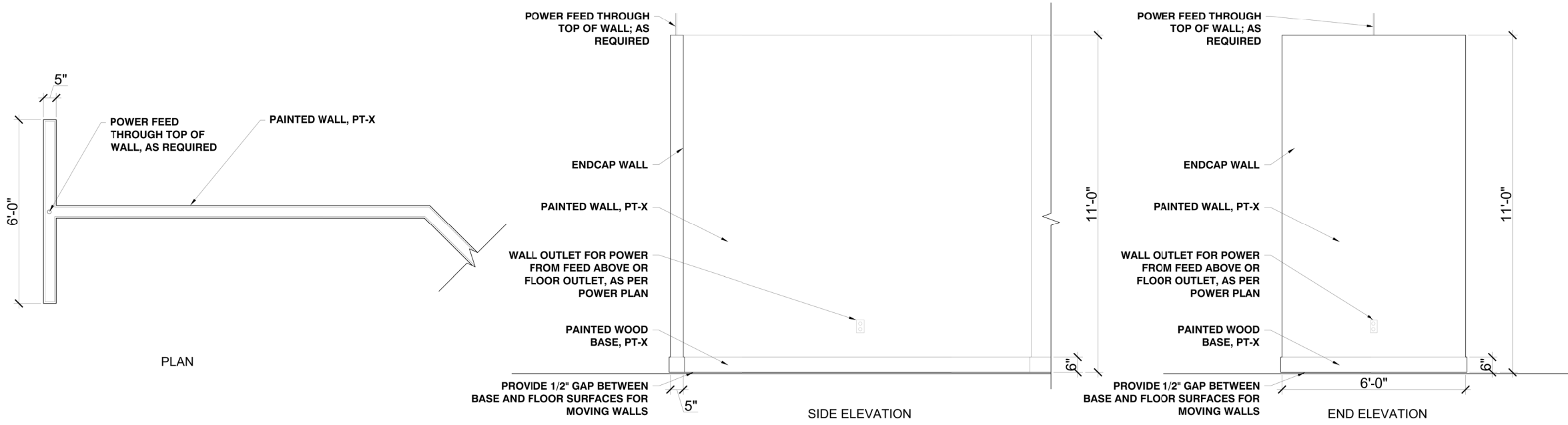
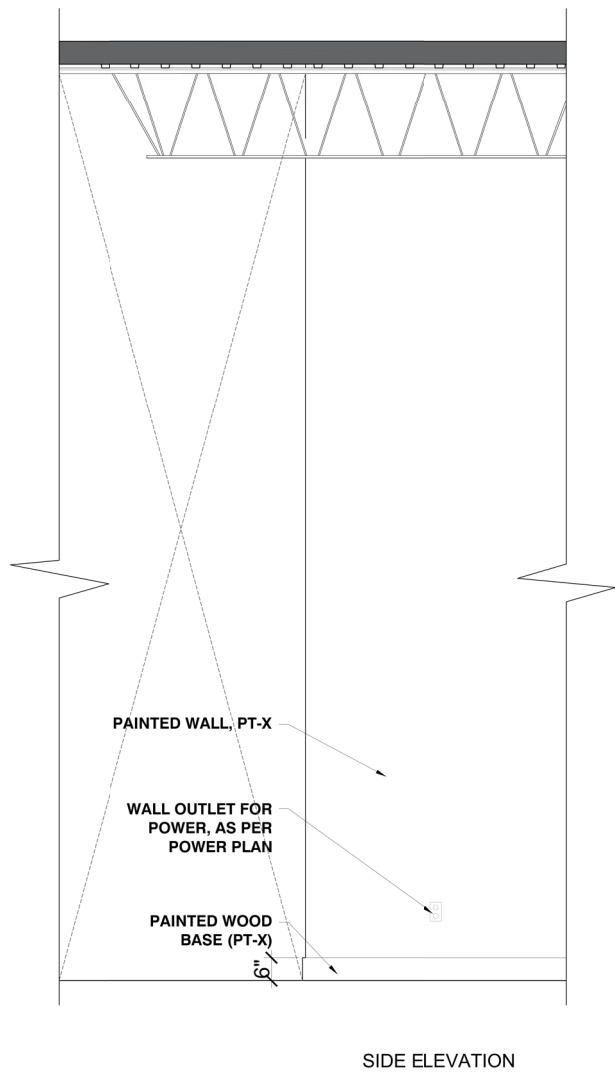
WALL TYPE
DETAILS

sheet number

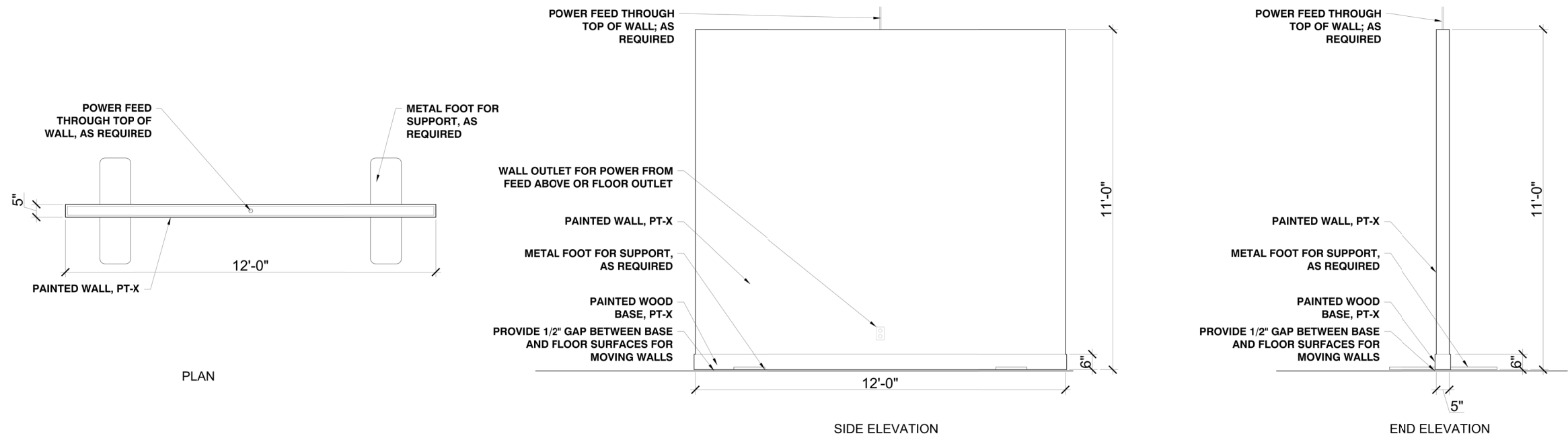
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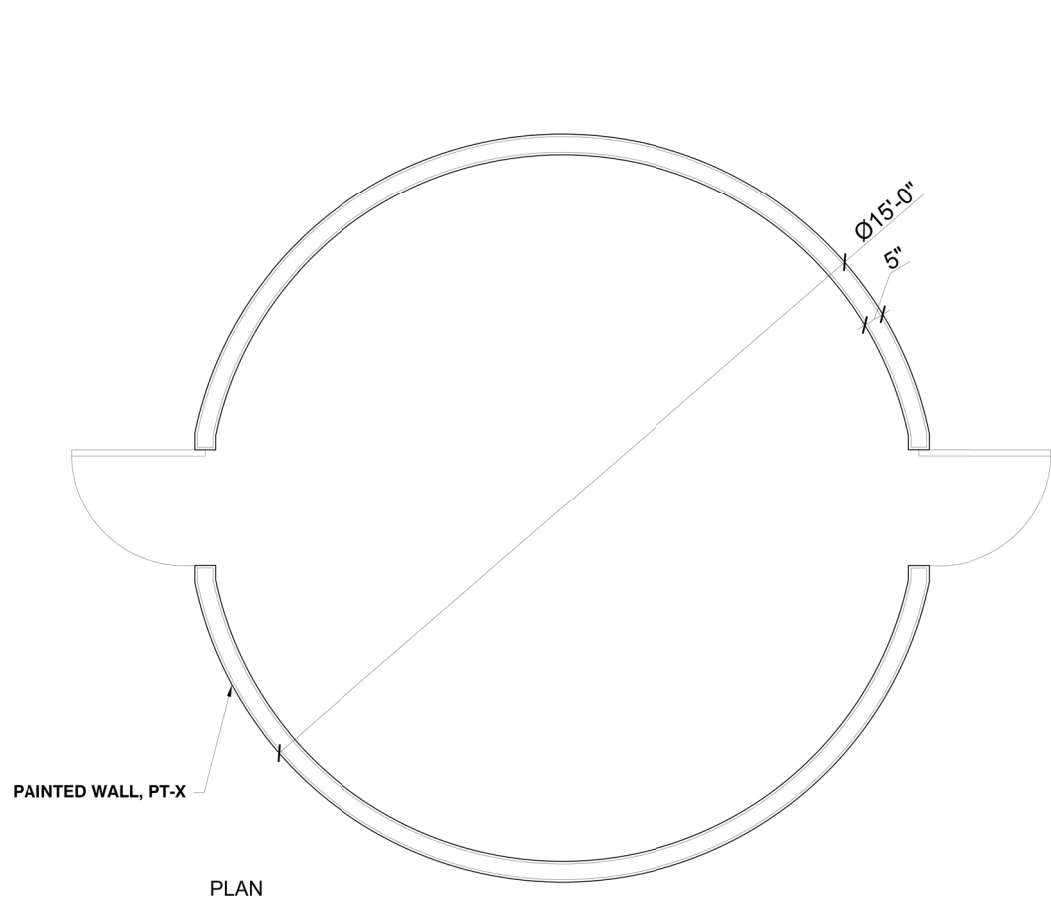
TYPE A
INDICATES FULL HEIGHT FIXED WALLS TO UNDERSIDE OF ROOF DECK



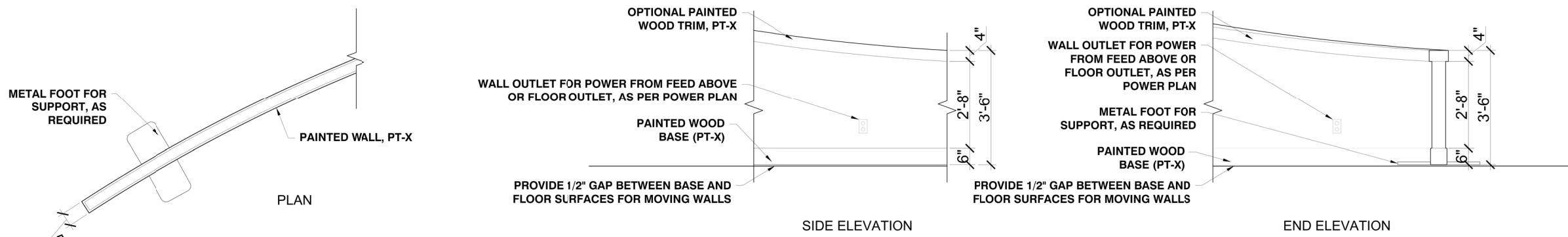
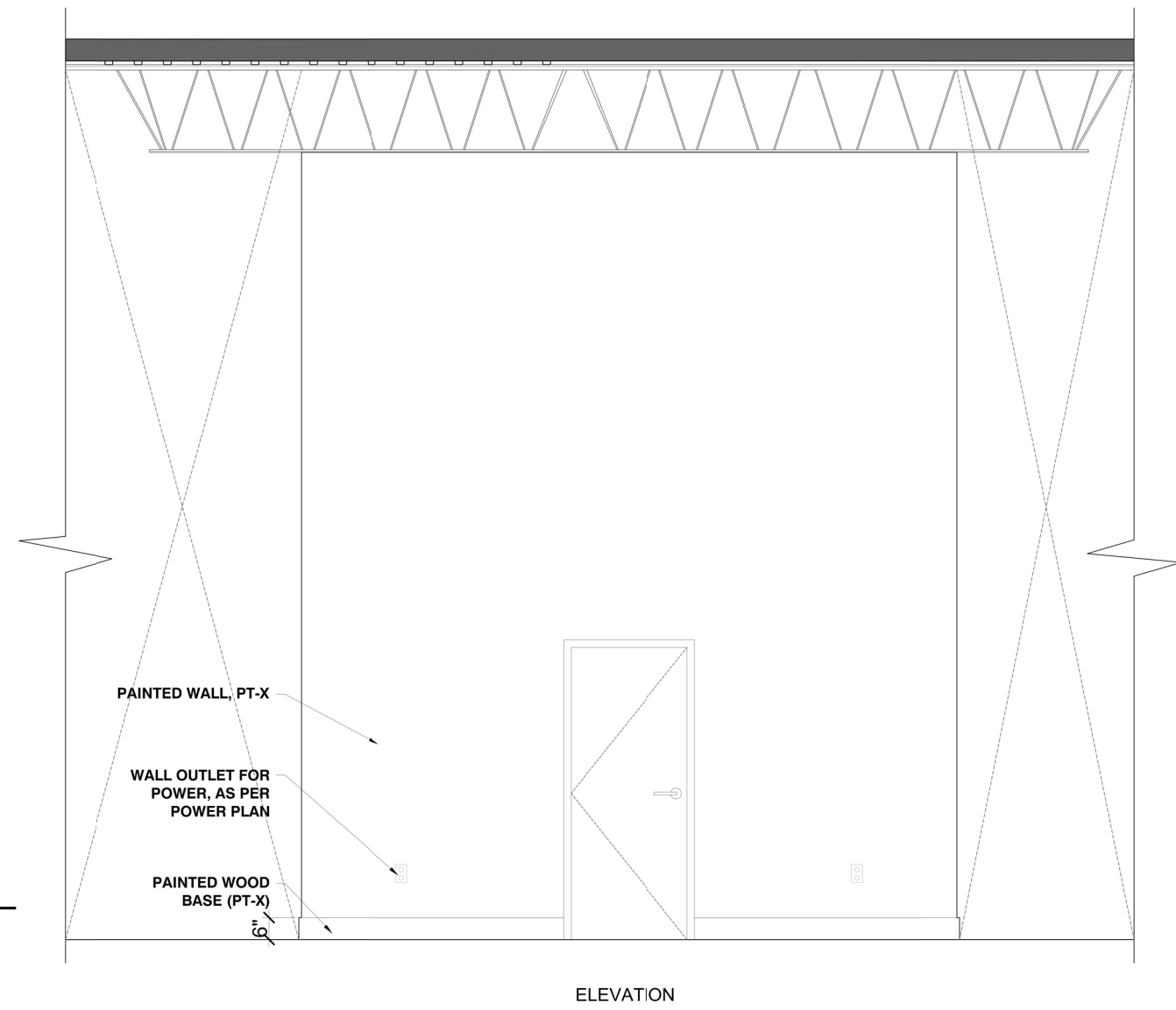
TYPE B
INDICATES 11'-0" HIGH MOVABLE MOTION/ UPHOLSTERY FEATURE CIRCLE WALLS



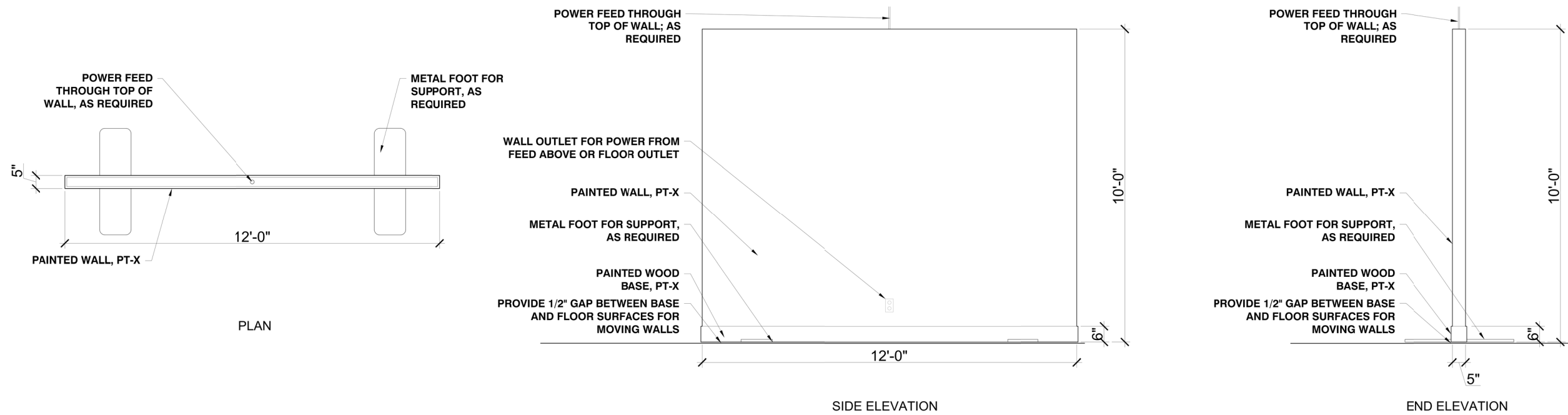
TYPE B-2
INDICATES 11'-0" HIGH MOVABLE MOTION/ UPHOLSTERY FEATURE CIRCLE WALLS



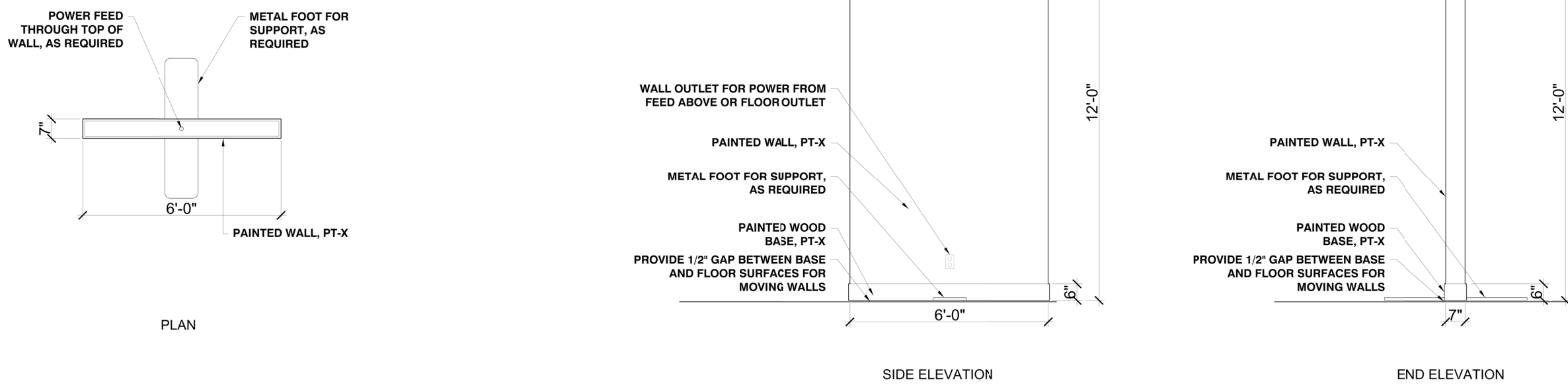
TYPE C
INDICATES 18'-0" HIGH FIXED MATTRESSES STORAGE WALLS



TYPE D
INDICATES LOW MOVABLE CURVED/ SLOPED MATTRESSES WALLS



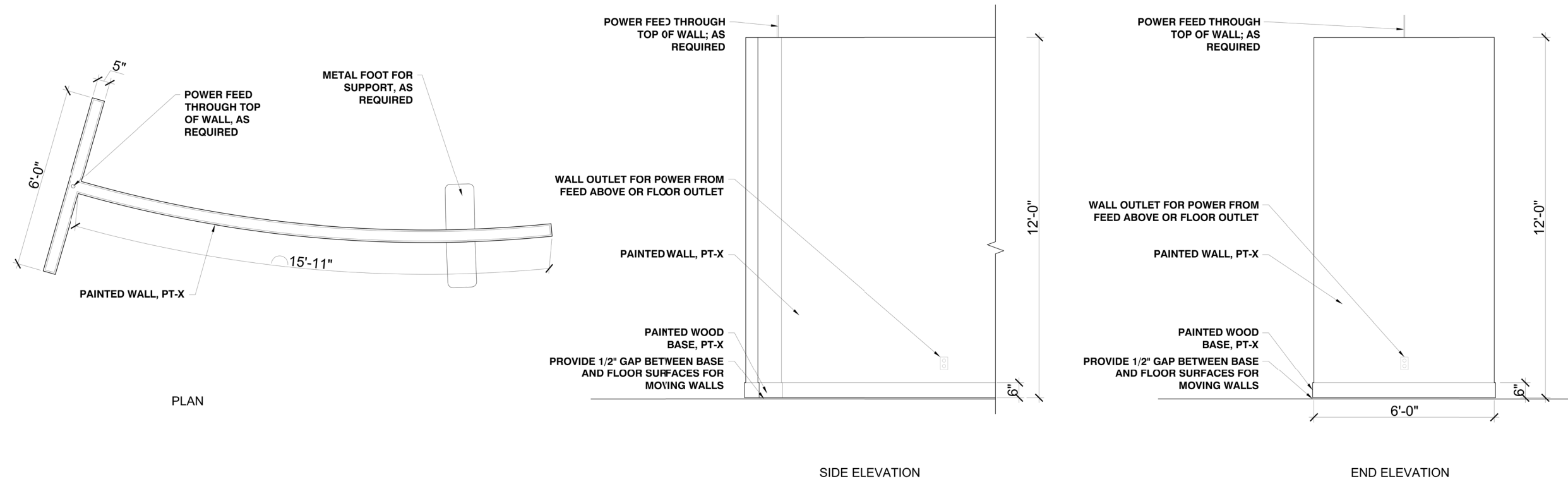
TYPE N
INDICATES 12'-0" LONG X 10'-0" HIGH MOVABLE VR/ GAMING WALL



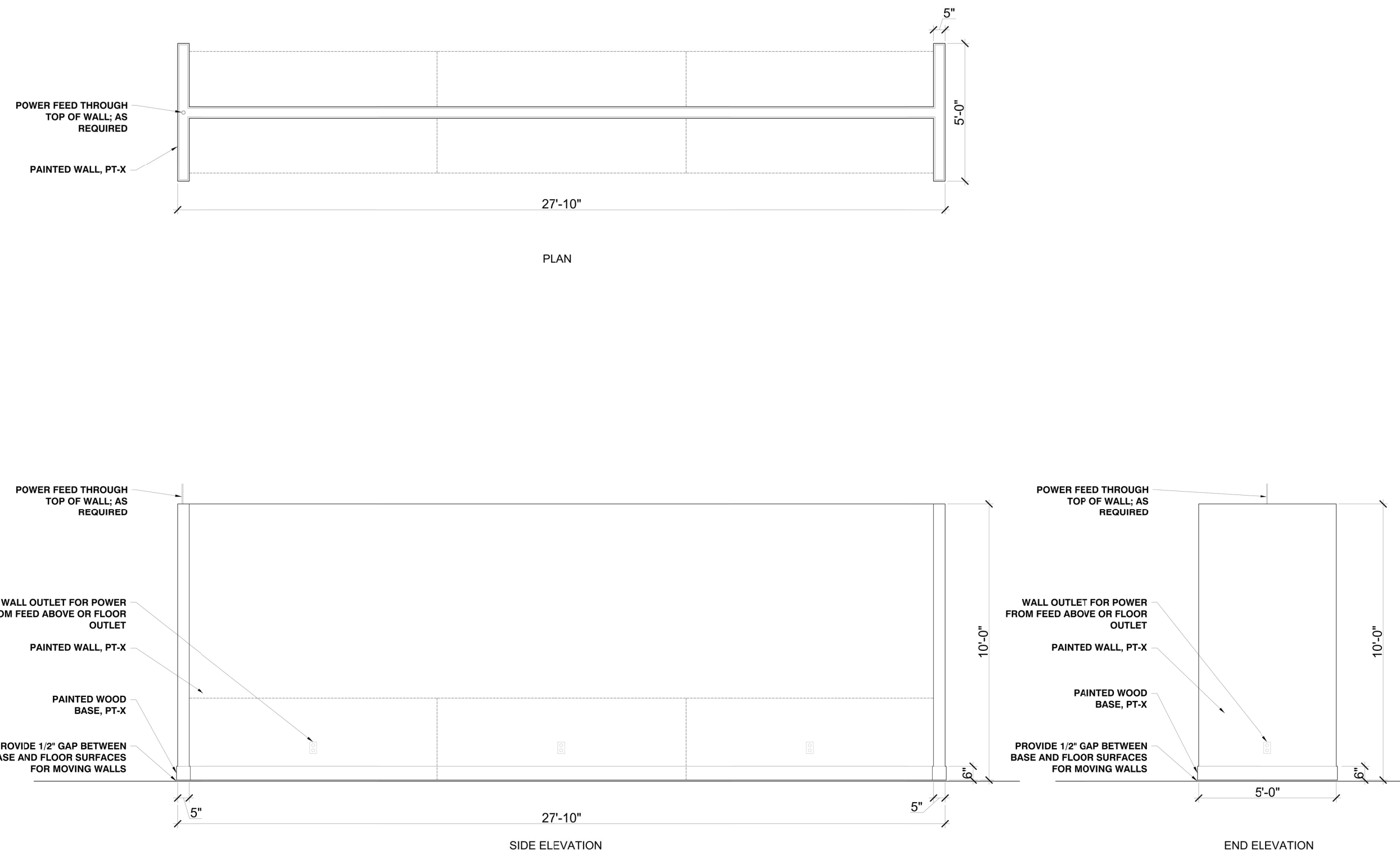
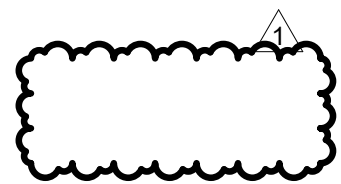
TYPE O
INDICATES 6'-0" LONG X 12'-0" HIGH MOVABLE WALL UNIT

WALL TYPE DETAILS

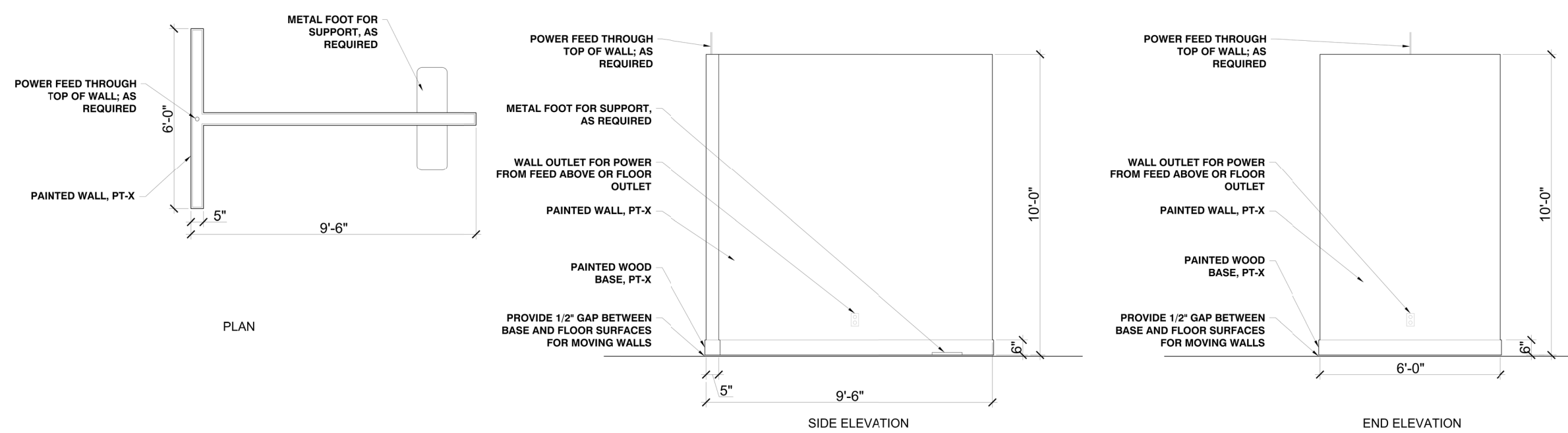
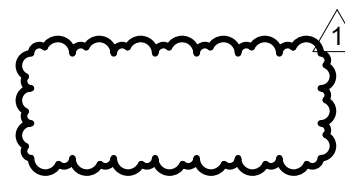
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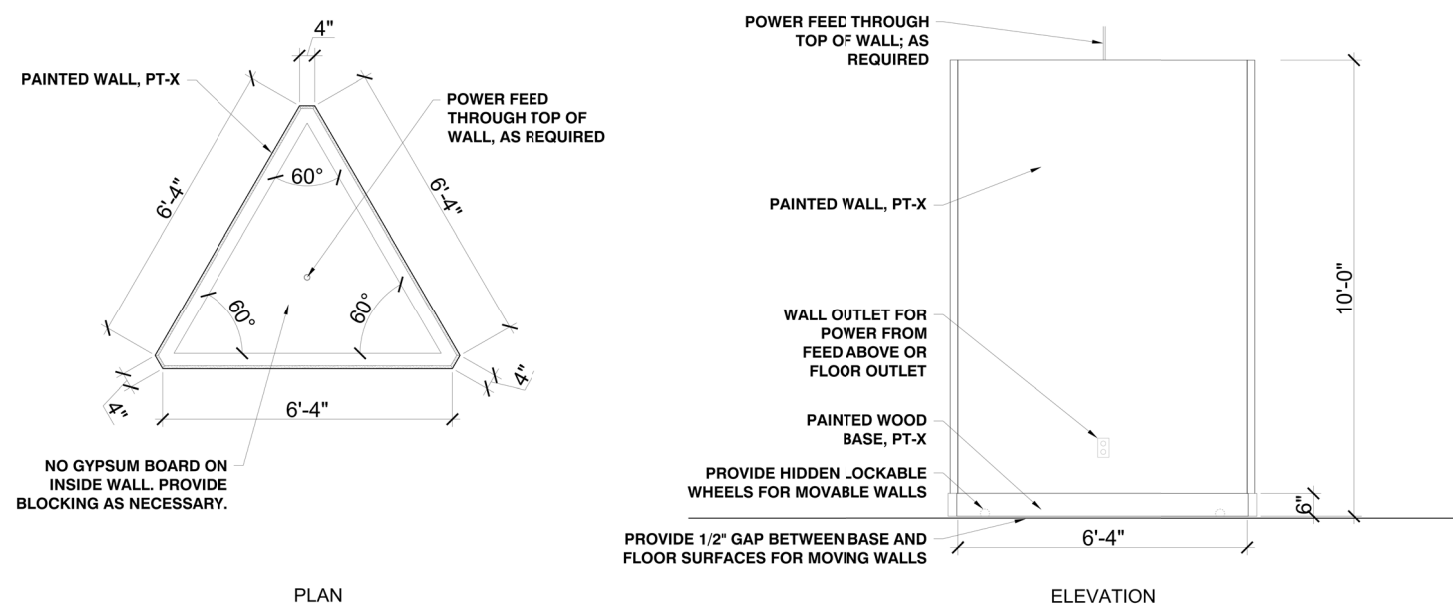
TYPE F
INDICATES 12'-0" HIGH MOVEABLE BEDROOM I-WALL UNITS WITH 6'-0" ENDCAPS



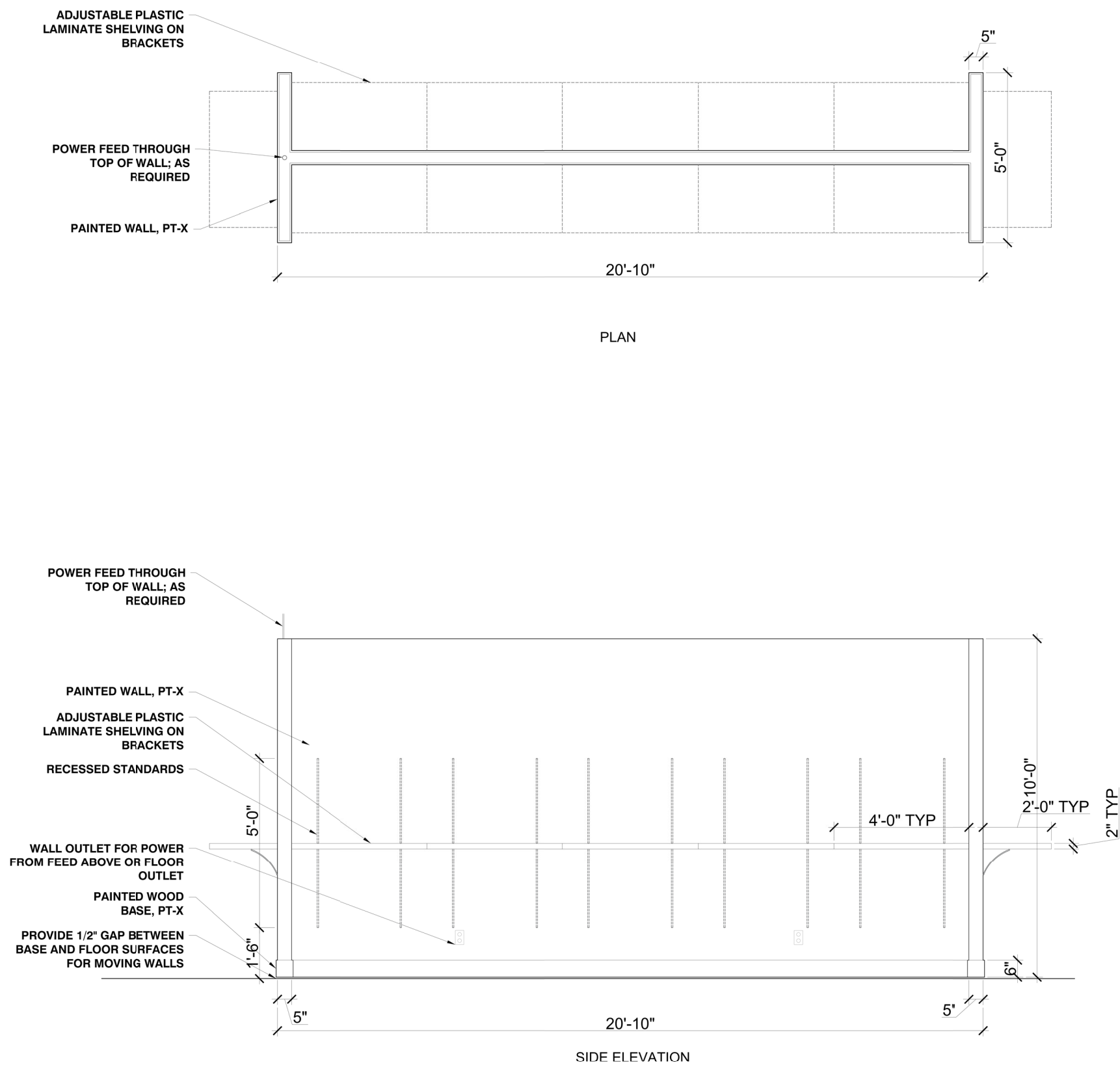
TYPE G
INDICATES 10'-0" HIGH MOVABLE BEDROOM I-WALL UNIT WITH 5'-0" END CAPS



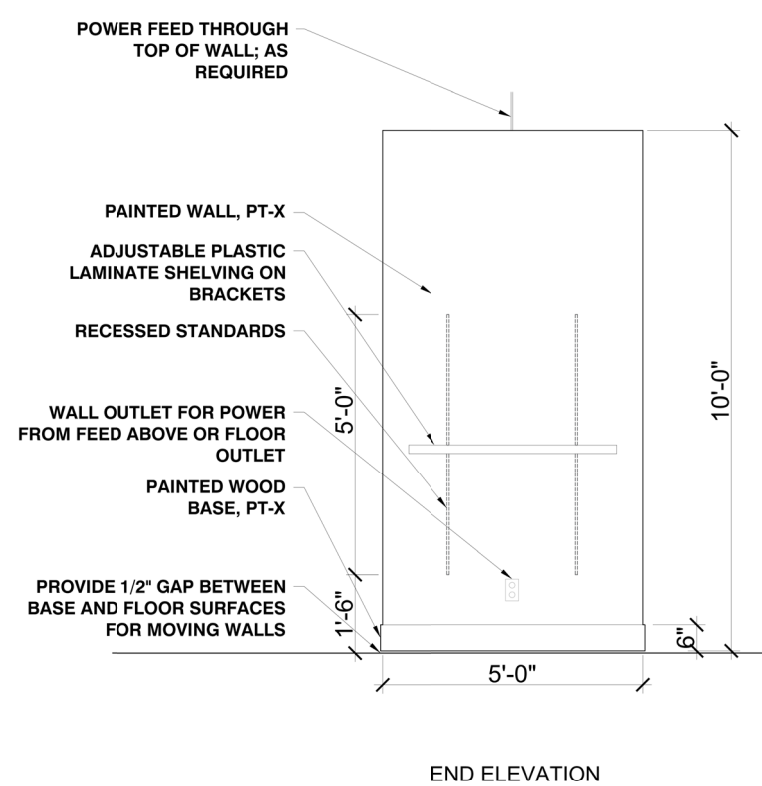
TYPE H
INDICATES 12'-0" HIGH MOVABLE T-WALL UNITS WITH 6'-0" END CAPS



TYPE I
INDICATES 10'-0" HIGH MOVEABLE TRIANGULAR DINING WALL UNIT WITH WHEELS



TYPE J
INDICATES 10'-0" HIGH MOVABLE DINING I-WALL UNIT WITH 5'-0" END CAPS



WALL TYPE DETAILS

NTS



FURNITURE MALL TENANT IMPROVEMENT

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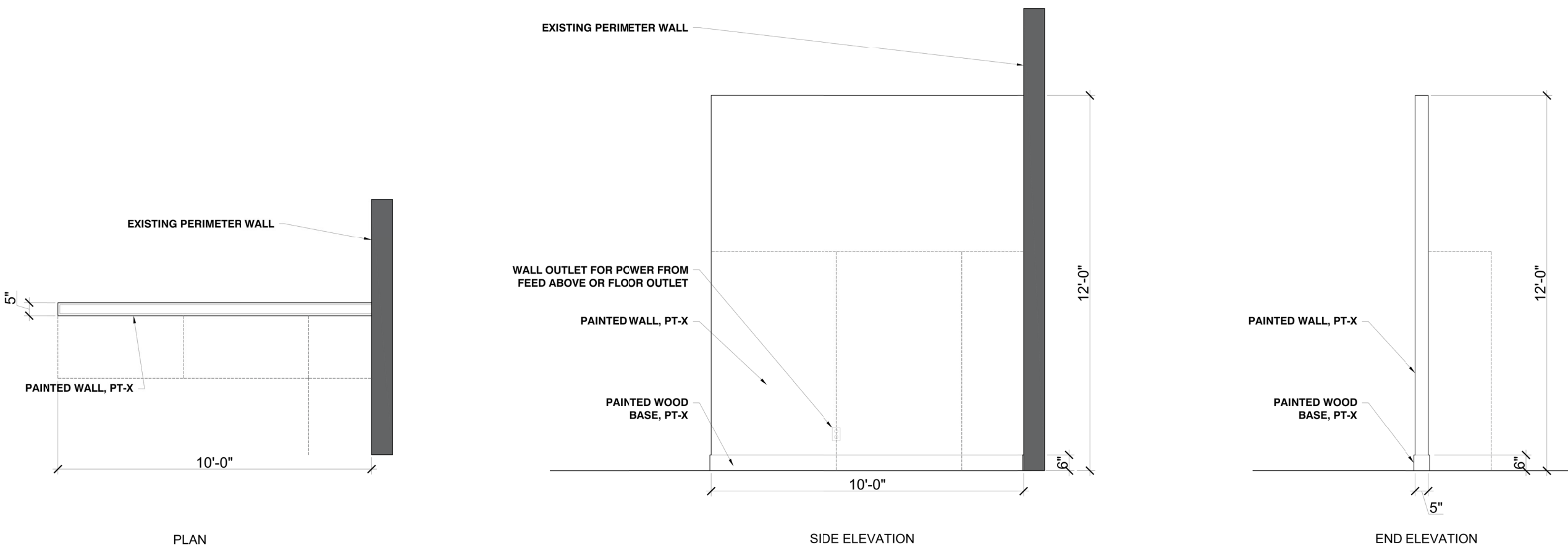
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rev	date	description
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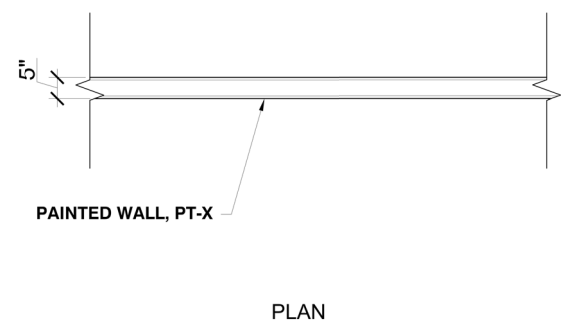
WALL TYPE DETAILS

sheet number

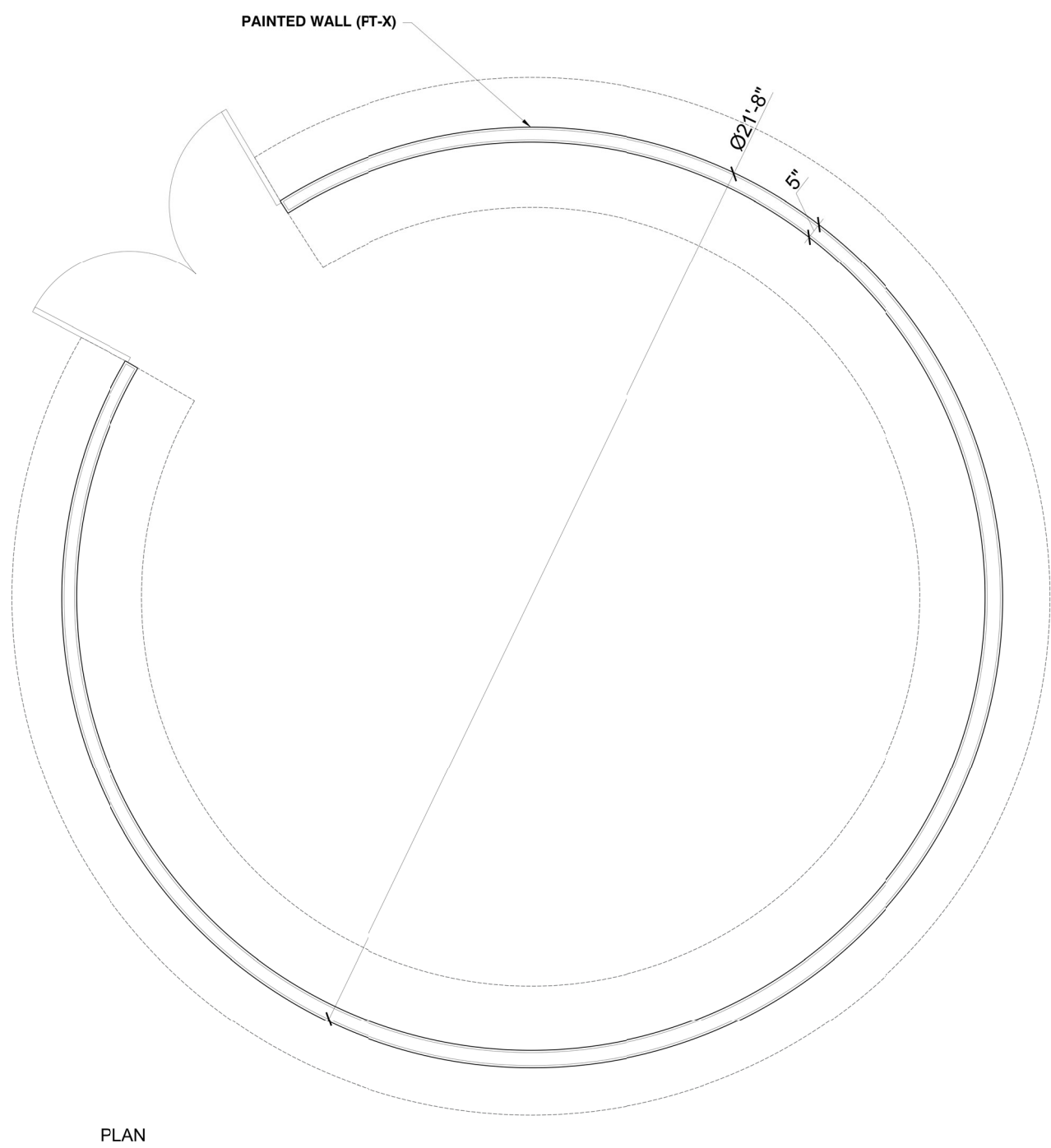
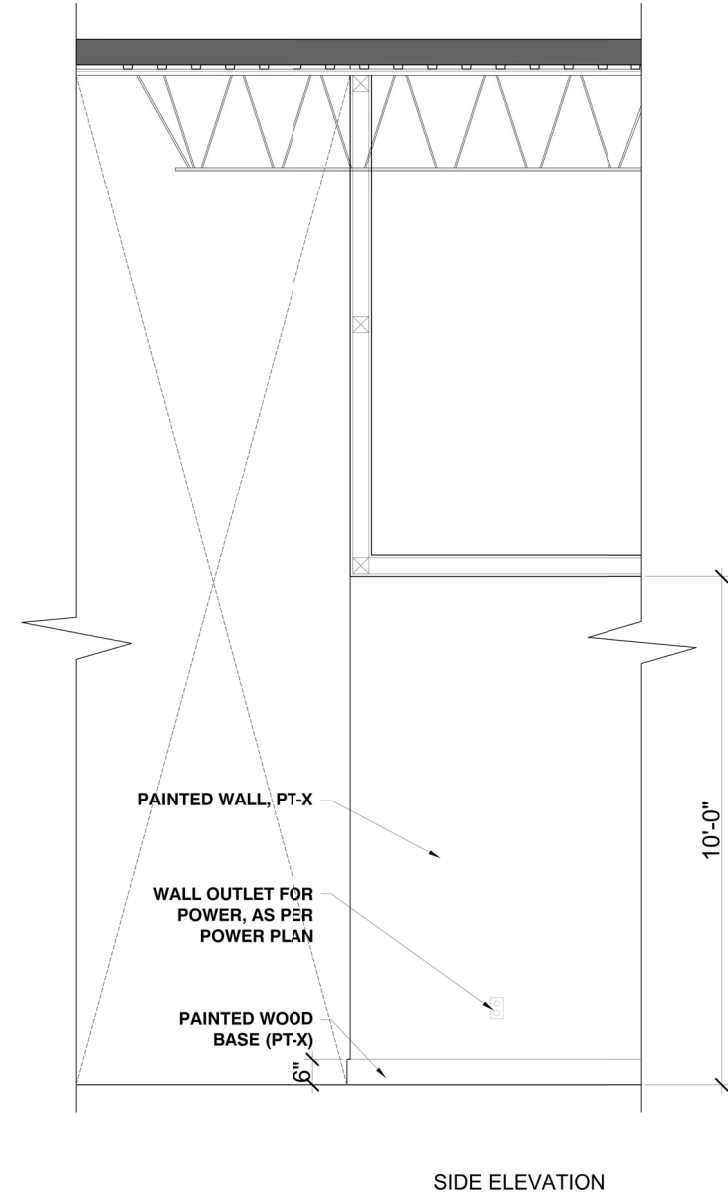
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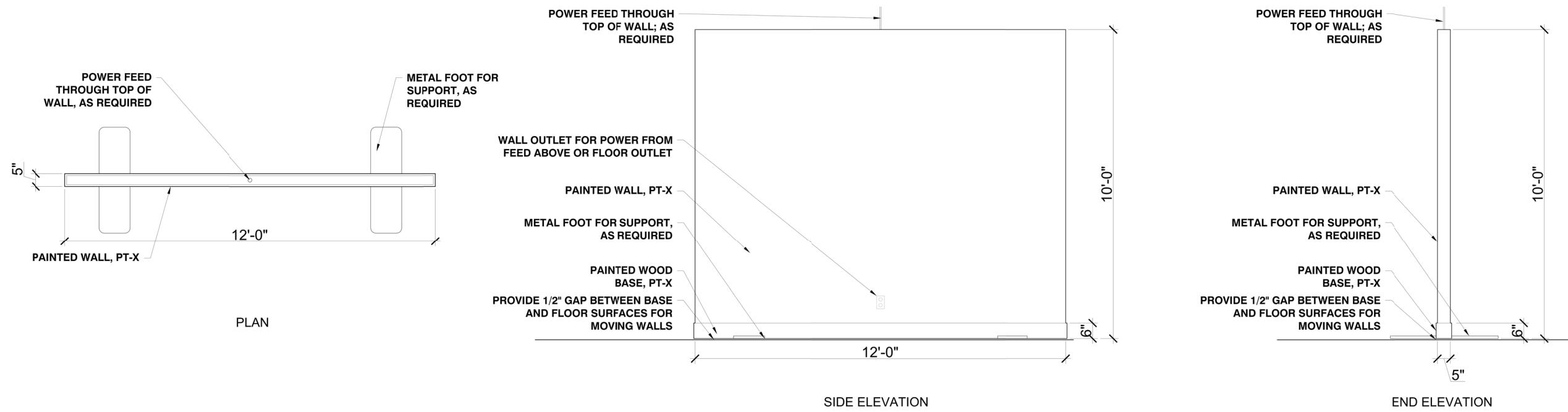
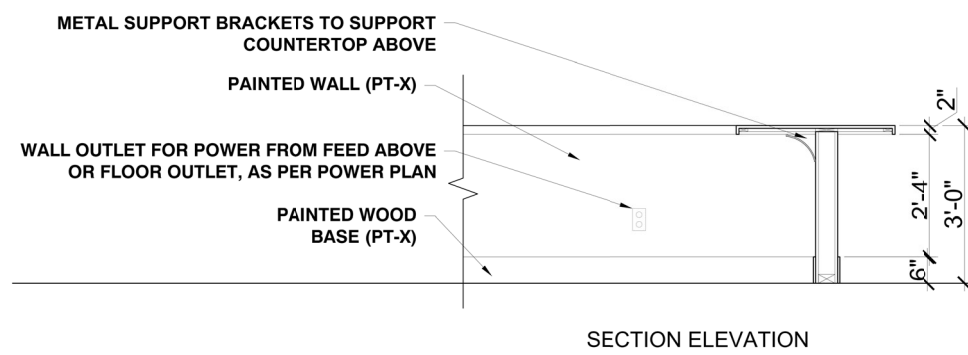
TYPE K
INDICATES 10'-0" LONG X 12'-0" HIGH FIXED DESIGN CENTER WALLS



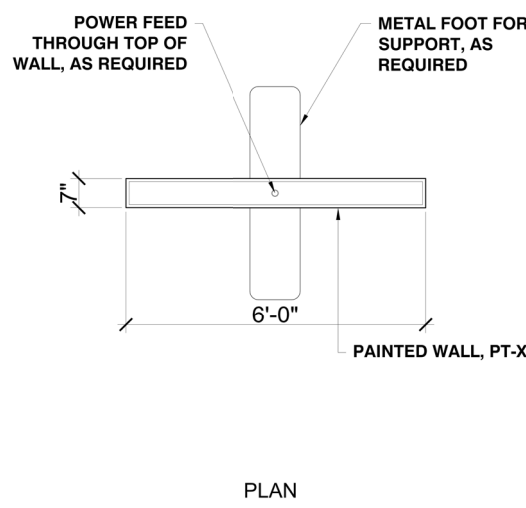
TYPE L
INDICATES FULL HEIGHT FIXED IMMERSION ROOM WALL TO UNDERSIDE OF ROOF DECK



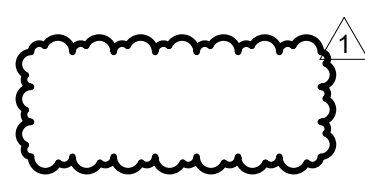
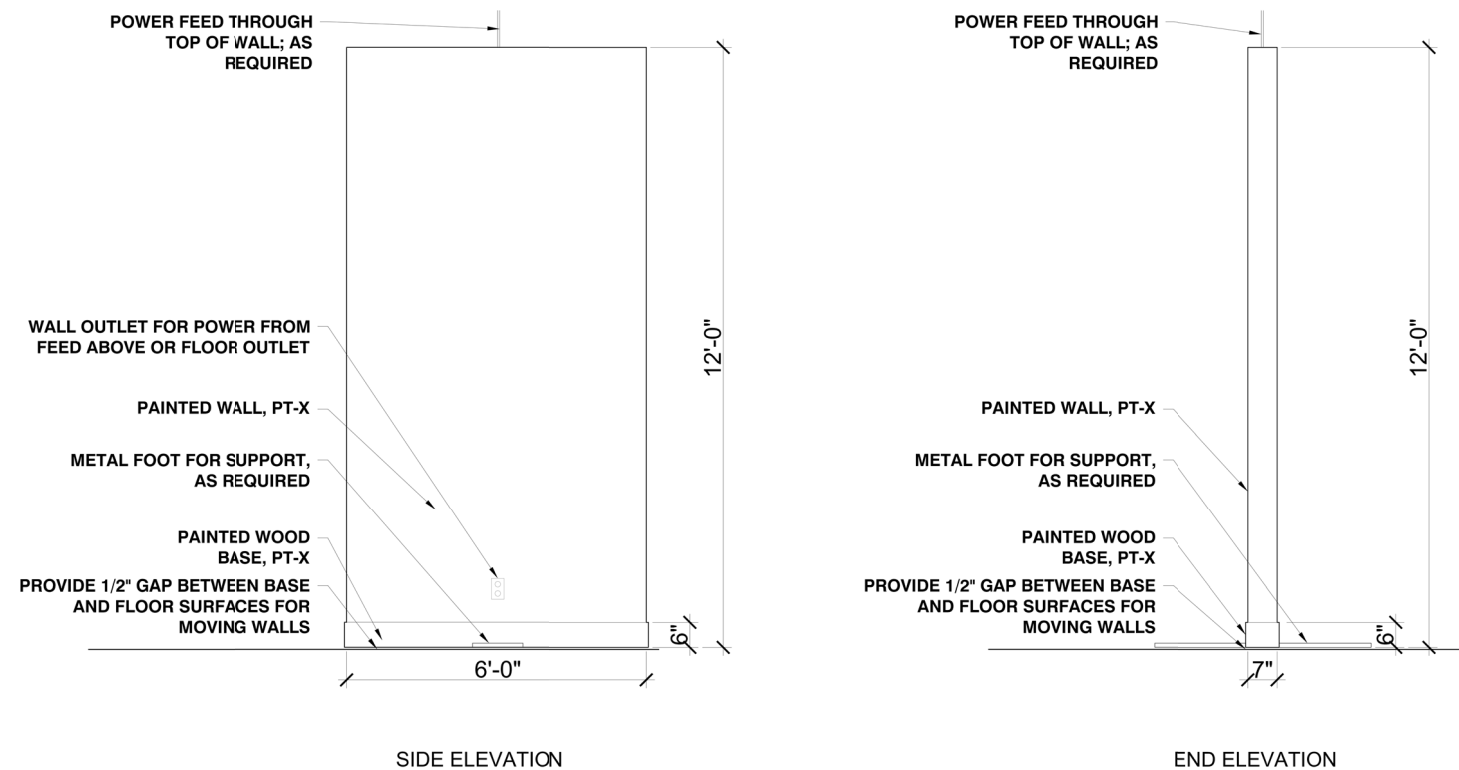
TYPE M
INDICATES 3'-0" HIGH FIXED CURVED FURNITURE FACTORY WALLS



TYPE N
INDICATES 12'-0" LONG X 10'-0" HIGH MOVABLE VR/ GAMING WALL



TYPE O
INDICATES 6'-0" LONG X 12'-0" HIGH MOVABLE WALL UNIT



WALL TYPE DETAILS

NTS



FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
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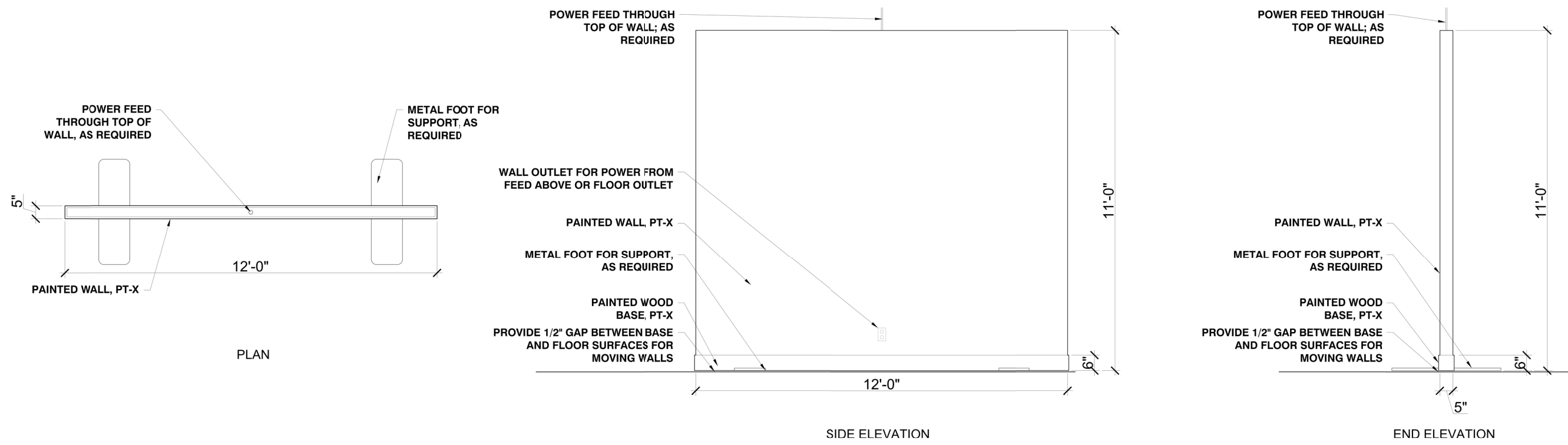
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rev	date	description
1	3/18/22	ADD #1

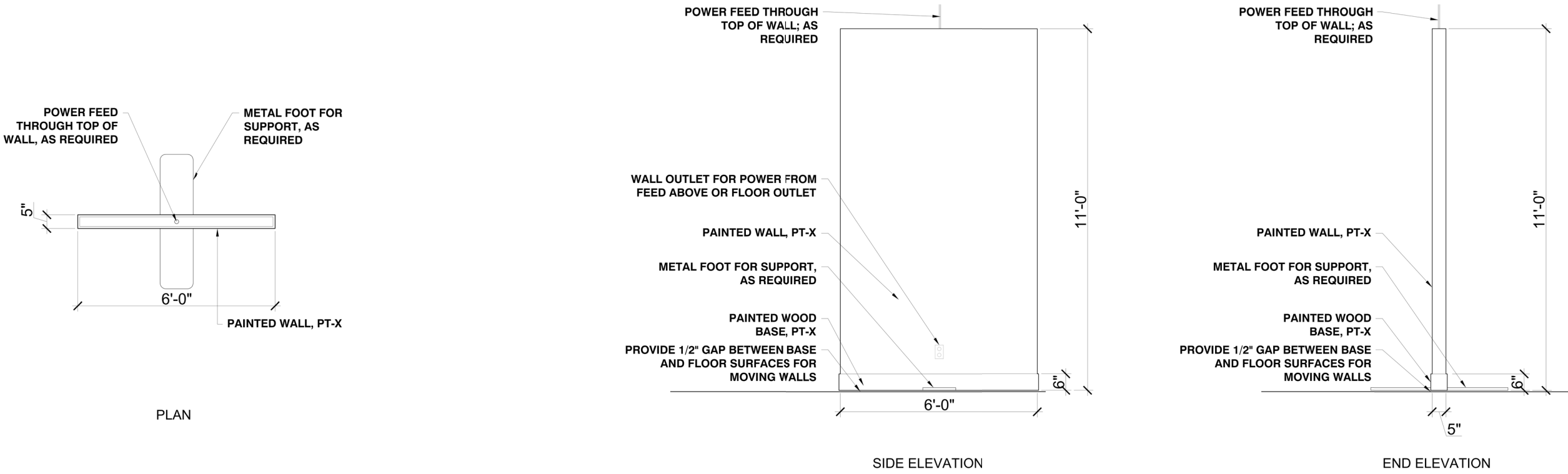
WALL TYPE DETAILS

sheet number

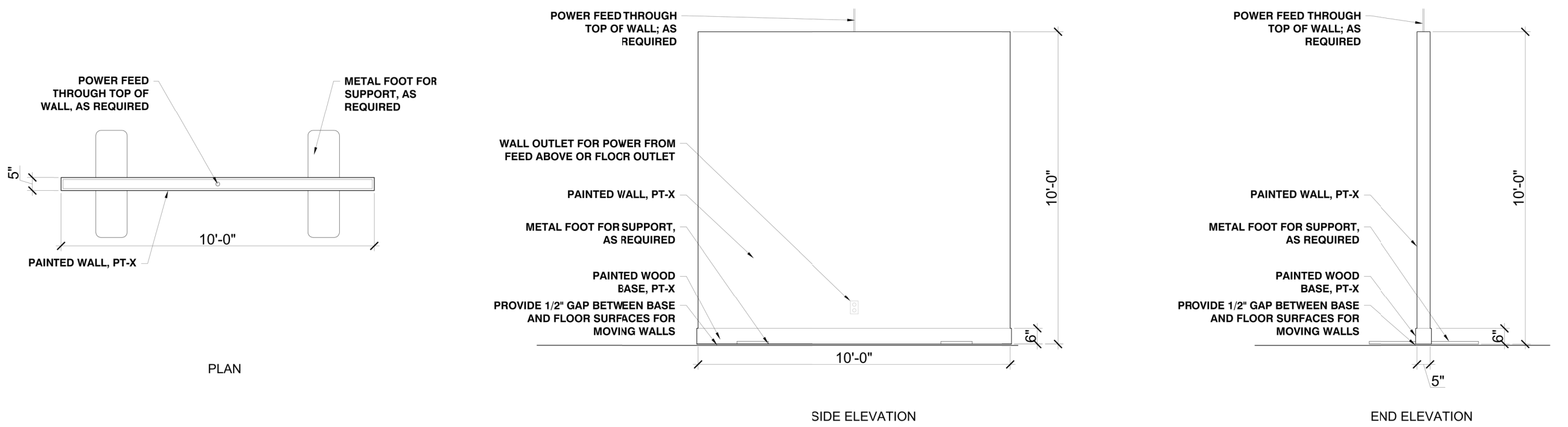
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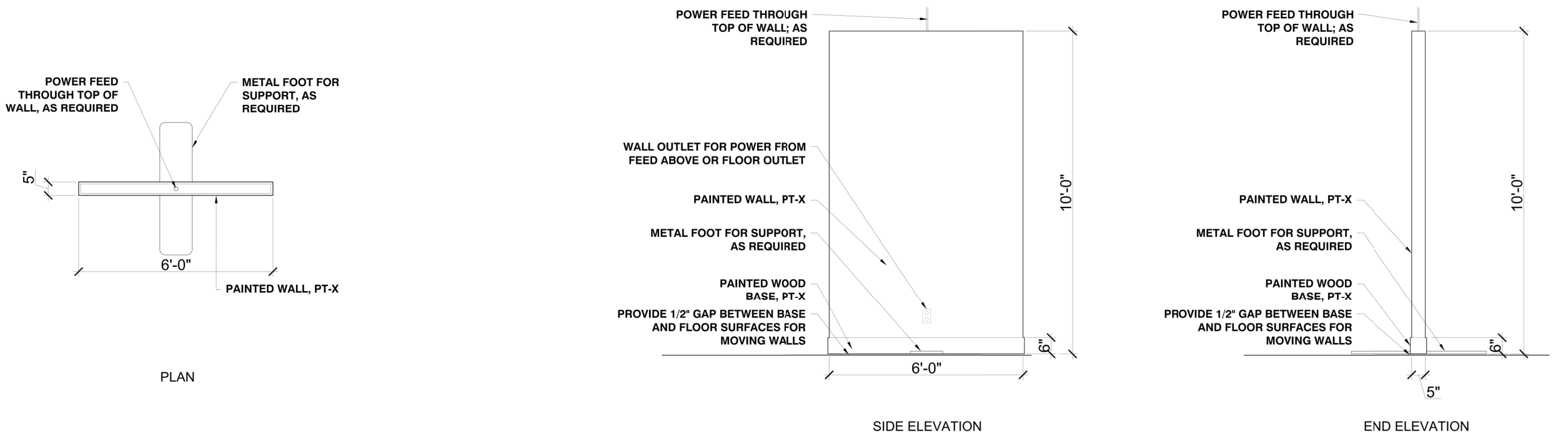
TYPE P
INDICATES 12'-0" LONG X 11'-0" HIGH MOVABLE WALL UNIT



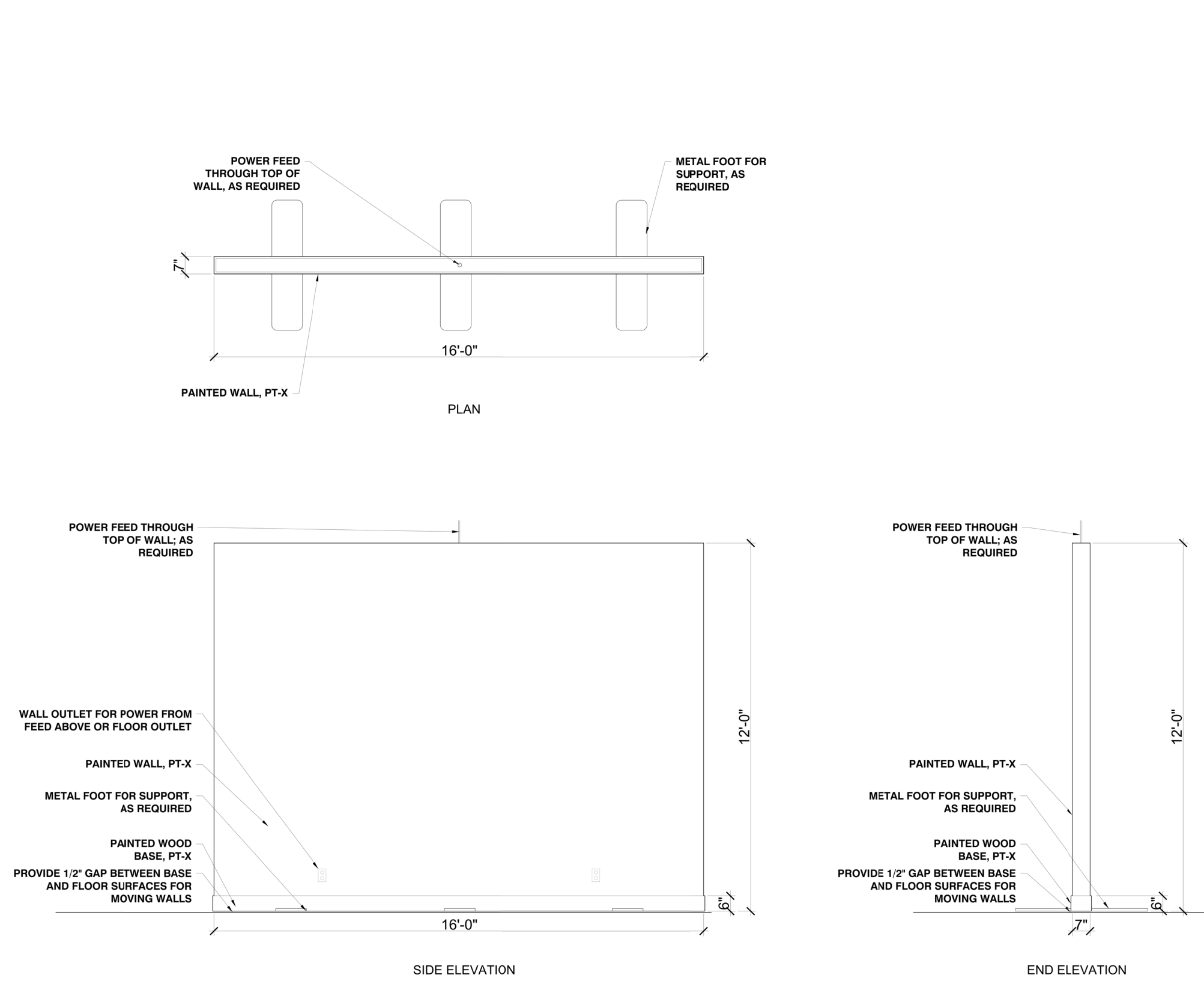
TYPE Q
INDICATES 6'-0" LONG X 11'-0" HIGH MOVABLE WALL UNIT



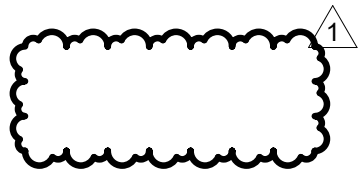
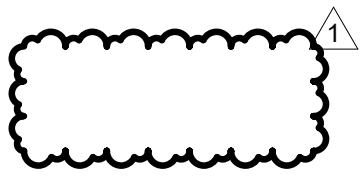
TYPE S
INDICATES 10'-0" LONG X 10'-0" HIGH MOVABLE WALL UNIT

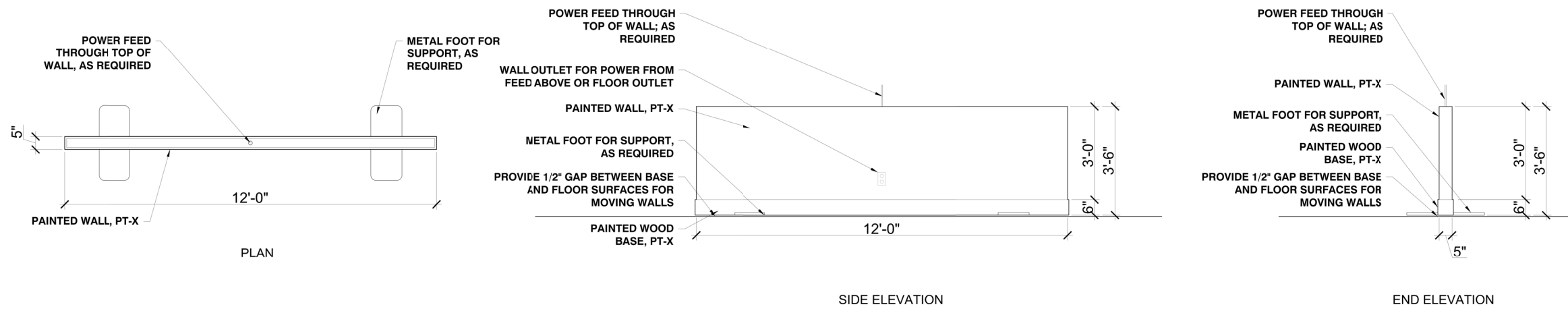


TYPE T
INDICATES 6'-0" LONG X 10'-0" HIGH MOVABLE WALL UNIT

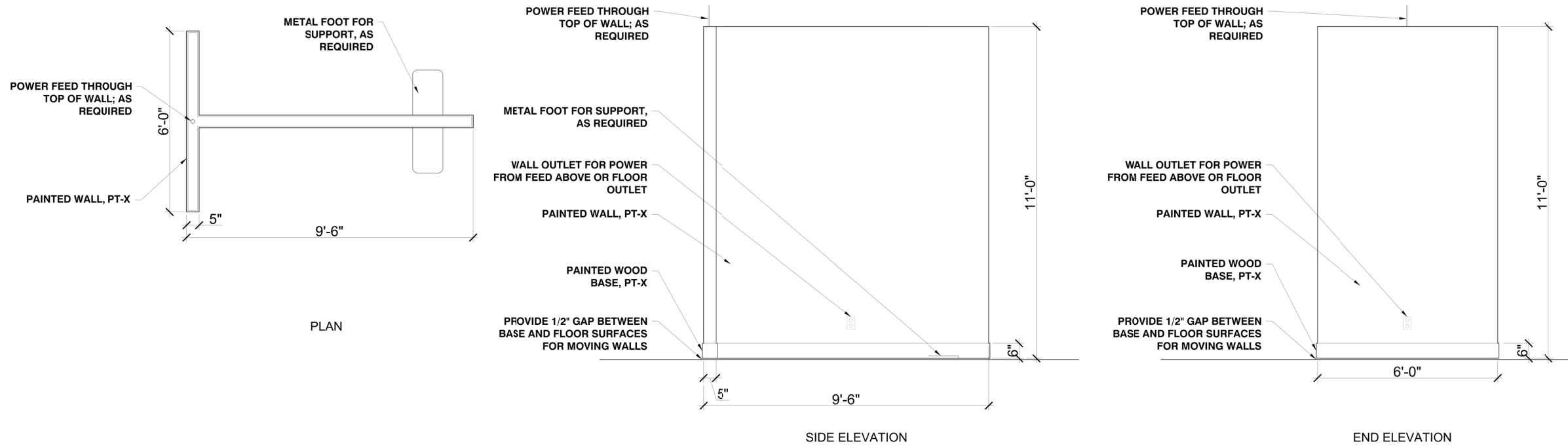


TYPE R
INDICATES 16'-0" LONG X 12'-0" HIGH MOVABLE WALL UNIT

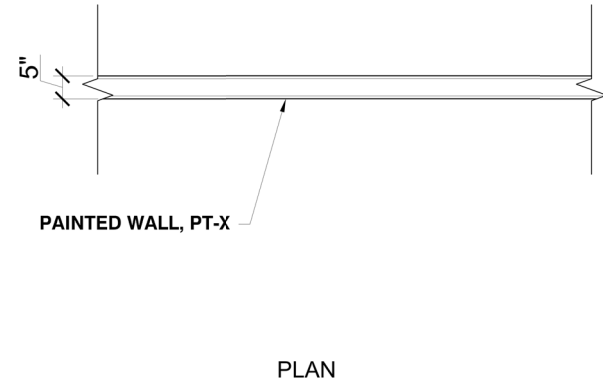




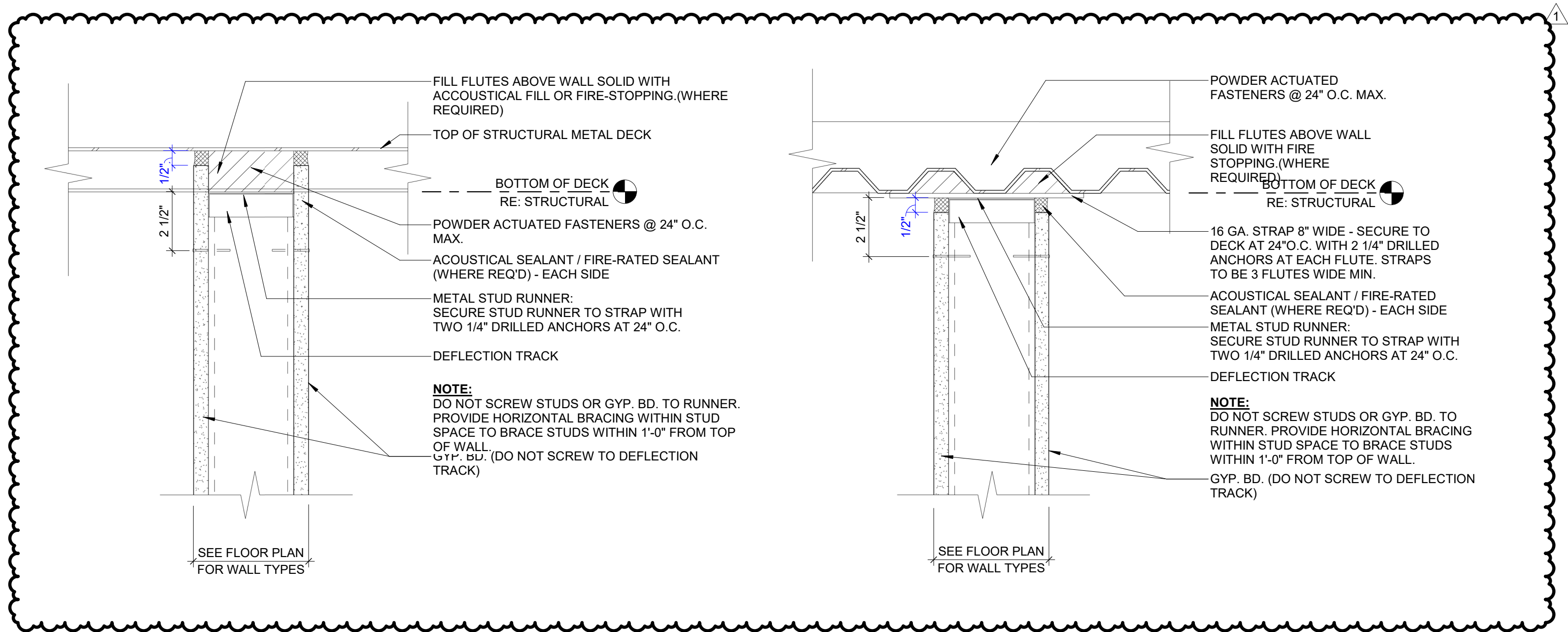
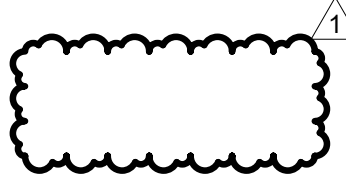
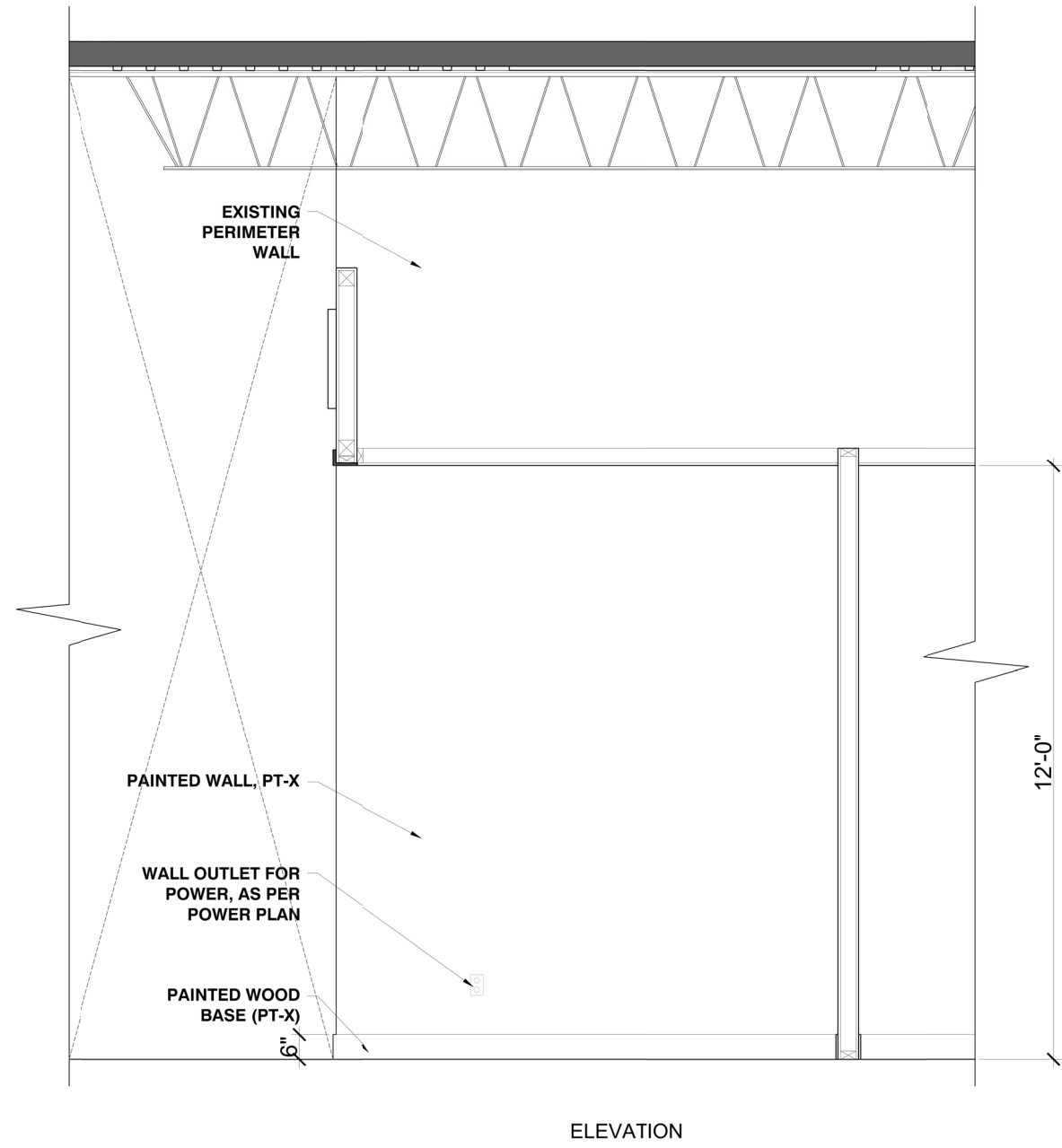
TYPE U
INDICATES 12'-0" LONG X 3'-6" HIGH MOVABLE WALL UNIT



TYPE V
INDICATES 11'-0" HIGH MOVABLE T-WALL UNITS WITH 6'-0" END CAPS



TYPE W
INDICATES 12'-0" HIGH FIXED CAFE WALLS



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WALL TYPE
DETAILS

sheet number

STRUCTURAL GENERAL NOTES

GENERAL NOTES:

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE OTHER PROJECT DRAWINGS AND SPECIFICATIONS. THE MATERIAL REQUIREMENTS IN THESE NOTES ARE TO BE CONSIDERED AS MINIMUM. SPECIFICATIONS SHALL GOVERN WHEN MORE STRINGENT.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND MAKE NECESSARY INVESTIGATIONS AND FIELD MEASUREMENTS. INFORM ENGINEER OF ALL DISCREPANCIES.

THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATIONS OF PENETRATIONS AND EMBEDDED ITEMS THROUGH THE STRUCTURE FOR ALL TRADES. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

SEE MECHANICAL, ELECTRICAL, ARCHITECTURAL DRAWINGS FOR ANCHORS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED IN OR PASS THROUGH CONCRETE. IN GENERAL, EMBEDMENTS AND PENETRATIONS LESS THAN 12 INCHES IN DIAMETER ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

SEE ARCHITECTURAL DRAWINGS FOR DOOR HEIGHTS AND WALL OPENING DIMENSIONS.

STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.

SUPPORT OF ALL NON-STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NON-STRUCTURAL ELEMENTS ARE THOSE THAT DO NOT CONTRIBUTE TO THE DIRECT LOAD PATH OF BOTH THE GRAVITY AND LATERAL FORCE RESISTING SYSTEMS. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO PARTITIONS, FINISHES, MILLWORK, MECHANICAL EQUIPMENT, DUCTWORK, PIPING, LIGHT FIXTURES,ELECTRICAL CONDUIT, STORAGE RACKS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THESE ELEMENTS ARE ADEQUATELY CONNECTED TO THE STRUCTURE TO RESIST ALL APPLIED LOADS. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF UNUSUAL SUPPORT CONDITIONS EXIST.

WORK REQUIRING SPECIAL INSPECTIONS SHALL BE INSPECTED ACCORDING TO THE BUILDING CODE AND INCLUDES: CONCRETE, REINFORCING STEEL, STRUCTURAL WELDING, HIGH-STRENGTH BOLTING, AND MASONRY. RE: SPECIAL INSPECTION PROGRAM TABLE WHEN APPLICABLE.

DESIGN CRITERIA:

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.

LIVE LOADS:
ROOF: 20 PSF

SNOW LOADS:
GROUND SNOW LOAD, Pg: 20 PSF
FLAT-ROOF SNOW LOAD, Pf: 20 PSF
SNOW EXPOSURE FACTOR, Ce: 0.9
SNOW LOAD IMPORTANCE FACTOR, Is: 1.0
THERMAL FACTOR, Ct: 1.0

WIND LOAD:
BASIC WIND SPEED: 115 MPH
EXPOSURE CATEGORY: B
WIND IMPORTANCE FACTOR, Iw: 1.0
BASIC INTERNAL PRESSURE COEFFICIENT, GCpi: ±0.18
BASIC COMPONENTS AND CLADDING PRESSURE (ADJUSTED TO COMPLY WITH BUILDING CODE): ±30 PSF @ INTERIOR ZONES
±35 PSF @ END ZONES

SEISMIC LOAD:
SEISMIC IMPORTANCE FACTOR, Ie: 1.0
SPECTRAL RESPONSE ACCELERATIONS:
Ss: 0.1005
S1: 0.0686
SPECTRAL RESPONSE COEFFICIENTS:
Sds: 0.107
Sd1: 0.110
SITE CLASS: D
SEISMIC DESIGN CATEGORY: B
BASIC SEISMIC-FORCE-RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALL
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

THE NEW STRUCTURAL FRAMING INTRODUCES ADDITIONAL LATERAL LOAD TO THE MAIN WIND FORCE RESISTING SYSTEM (MWFRS). PER BUILDING CODE, "ANY EXISTING LATERAL LOADS CARRYING STRUCTURAL ELEMENTS WHOSE DEMAND-CAPACITY RATIO WITH THE ALTERATIONS CONSIDERED IS NOT MORE THAN 10% GREATER THAN ITS DEMAND-CAPACITY RATIO WITH THE ALTERATION IGNORED SHALL BE PERMITTED TO REMAIN UNALTERED."

STRUCTURAL STEEL NOTES:

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
WIDE FLANGE SHAPES (W, WT): ASTM A992 (Fy=50 KSI)
OTHER ROLLED SHAPES (M, S, HP, C, L): ASTM A36 (Fy=36 KSI)
STEEL PIPE: ASTM A53, GRADE B (Fy=35 KSI)
SQUARE AND RECTANGULAR TUBE: ASTM A500, GRADE B (Fy=46 KSI)
ANCHOR BOLTS: ASTM F1554, GRADE 36
HEADED ANCHOR STUDS: ASTM A108, GRADES 1010 TO 1020
PLATES AND BARS: ASTM A36 (Fy=36 KSI)

SHEAR CONNECTORS AND HEADED WELDED STUDS OF TYPE AND SIZE NOTED SHALL BE TYPE B.

STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

PROPER FIT IN THE FIELD OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF ALL CONNECTIONS NOT FULLY DESIGNED OR DETAILED ON THE CONTRACT DOCUMENTS.

ANCHOR BOLTS SHALL BE ASTM F1554, A36 UON. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES WITH THE APPROPRIATE BOLT PROJECTION, 4" MINIMUM UON. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION.

NON-SHRINK GROUT UNDER BASE PLATES SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.

HIGH STRENGTH BOLTED CONNECTIONS SHALL CONFORM TO THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 BOLTS. UNLESS OTHERWISE NOTED, HIGH STRENGTH BOLTS MAY BE TIGHTENED BY ANY METHOD THEREIN. REGARDLESS OF THE METHOD USED IN TIGHTENING, A HARDENED WASHER SHALL BE USED UNDER THE TURNED ELEMENT. UNLESS OTHERWISE NOTED, BOLTED CONNECTIONS SHALL BE MADE WITH ¾" Ø, ASTM A325 HIGH STRENGTH BOLTS.

CONNECTIONS REQUIRING FULL PRETENSIONING ARE SLIP-CRITICAL, AND INCLUDE BOLTED COLUMN SPLICES, BEAM SPLICES, BRACED FRAMES AND CONNECTIONS SUBJECT TO DIRECT TENSION.

ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STRUCTURAL WELDING CODE, AWS D1.1. THE MINIMUM WELD SIZE SHALL BE ⅜" FILLET UNLESS OTHERWISE NOTED.

FIELD WELDING SHALL NOT BE STARTED UNTIL JOINT ELEMENTS ARE BOLTED IN INTIMATE CONTACT AND/OR ADJUSTED TO DIMENSIONS INDICATED WITH ALLOWANCE FOR EXPECTED WELD SHRINKAGE. MAINTAIN PLUMBNESS AND TRUENESS OF THE STRUCTURE.

FIELD WELDS FOR STRUCTURAL STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES. WELD FILLER METAL SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.

LIGHT GAGE STEEL NOTES:

LIGHT GAGE FRAMING SHALL MEET THE FOLLOWING REQUIREMENTS:

- A. ASTM A653, PROVIDE GRADE 33 FOR MEMBERS 18 GAGE AND LIGHTER AND GRADE 50 FOR MEMBERS 16 GAGE AND HEAVIER. SEE PLANS FOR SECTION SIZE.
- B. GALVANIZING SHALL CONFORM TO ASTM A924 WITH A COATING CLASS OF G60.

FOR 18 GAGE AND LIGHTER FRAMING, CONNECTIONS SHALL BE MADE USING SELF-DRILLING, SELF-TAPPING SCREWS. FOR 16 GAGE AND HEAVIER FRAMING, CONNECTIONS SHALL BE MADE BY WELDING. COMPONENTS SHALL BE FASTENED TO INSURE THE STRENGTH OF THE CONNECTION. SEE DETAILS FOR FASTENER SIZES. SCREWS SHALL EXTEND A MINIMUM OF 3 EXPOSED THREADS PAST TRUSS/JOIST FLANGE.

WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.3. ELECTRODES SHALL BE E70.

FOR AXIALLY LOADED STUDS, INSTALL BRIDGING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. APPLIED MATERIALS SHALL NOT BE CONSIDERED TO BRACE THE MEMBERS. AS A MINIMUM, MECHANICAL BRIDGING SHALL NOT BE MORE THAN 4'-0" O.C..

INSTALL WEB STIFFENERS IN JOIST AT ALL BEARING LOCATIONS AND SUPPORTED CONCENTRATED LOADS.

PROVIDE RESTRAINT OF ROTATION FOR JOISTS AT ALL SUPPORTS BY FULL-DEPTH BLOCKING.

AXIALLY LOADED STUDS SHALL BE FULLY BEARING AGAINST UPPER AND LOWER TRACKS PRIOR TO CONNECTION. SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED. SPACE STUDS SUCH THAT THEY OCCUR AT SUPPORTED MEMBERS.



CERTUS

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IMPROVEMENT

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GENERAL
NOTES

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S001



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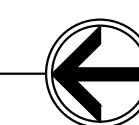
NORTHWEST FOUNDATION PLAN

sheet number

S101



SCALE: NONI



SCALE: $\frac{1}{8}" = 1'-0"$

TOSL - TOP OF SLAB ELEV = 100-0 = SITE ELEV = 1005.00

C(#) DENOTES COLUMN MARK, SEE SCHEDULE
BP(#) DENOTES COLUMN BASE PLATE TYPE, SEE DETAILS

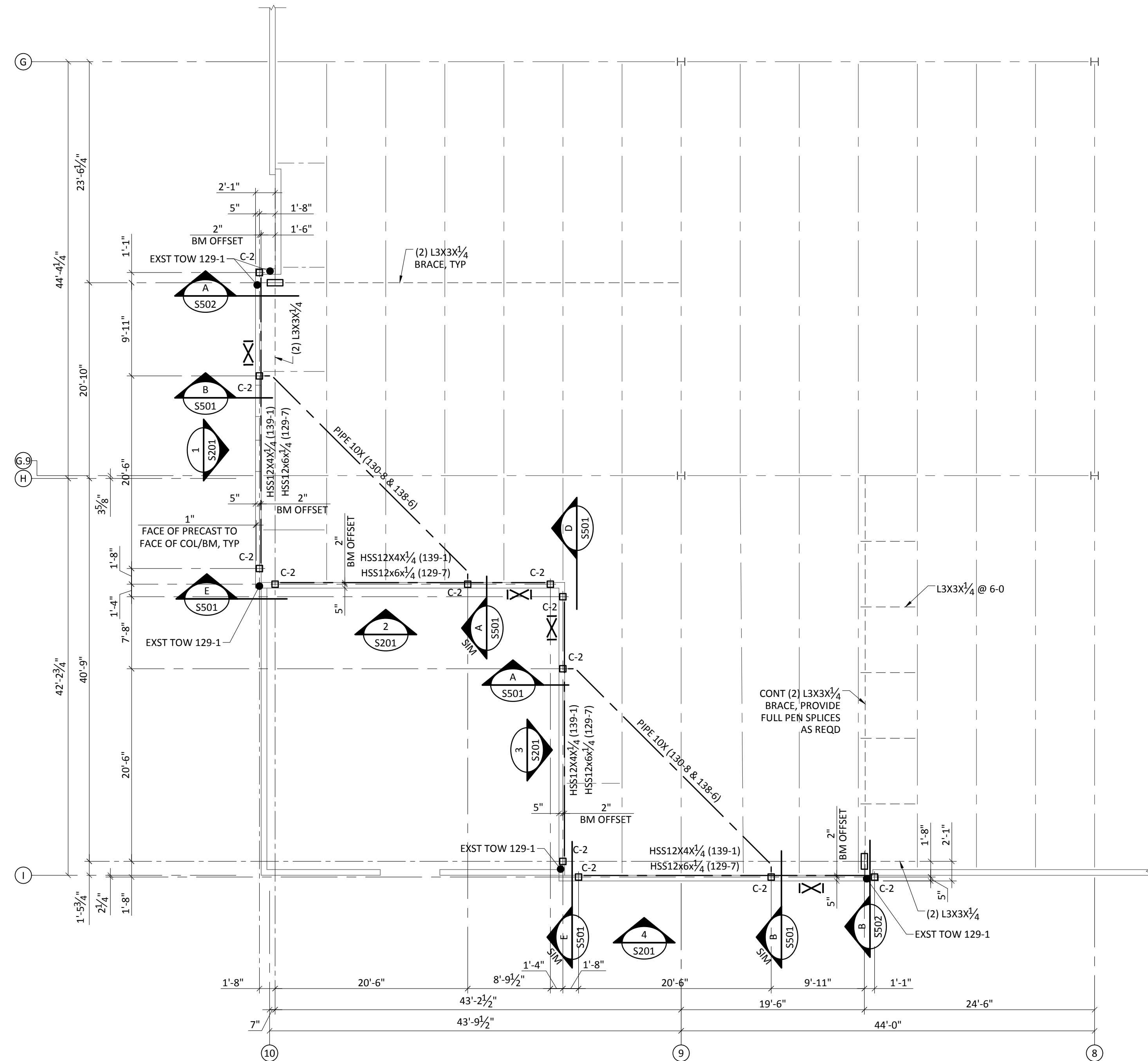
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COORDINATE ALL PENETRATIONS THROUGH THE SLAB AND ALL UNDER SLAB ITEMS WITH OTHER TRADES BEFORE CONSTRUCTION.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

COLUMN SCHEDULE	
MARK	SIZE
C-1	HSS20X8X1/2
C-2	HSS8X8X1/4
C-3	HSS8X6X1/4

COLUMN SCHEDULE	
MARK	SIZE
C-1	HSS20X8X1/2
C-2	HSS8X8X1/4
C-3	HSS8X6X1/4



PARTIAL NORTHWEST FRAMING PLAN

SCALE: $\frac{1}{8}" = 1'-0"$

TOS - TOP OF STEEL BEAM ELEV NOTED THUS:(ELEV)

TOW - TOP OF WALL ELEV = 129-1 UNO

IX INDICATES BRACED BAY.

* INDICATE DIMENSION TO BE VERIFY WITH ARCH PLANS.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

COLUMN SCHEDULE	
MARK	SIZE
C-1	HSS20X8X1/2
C-2	HSS8X8X1/4
C-3	HSS8X6X1/4



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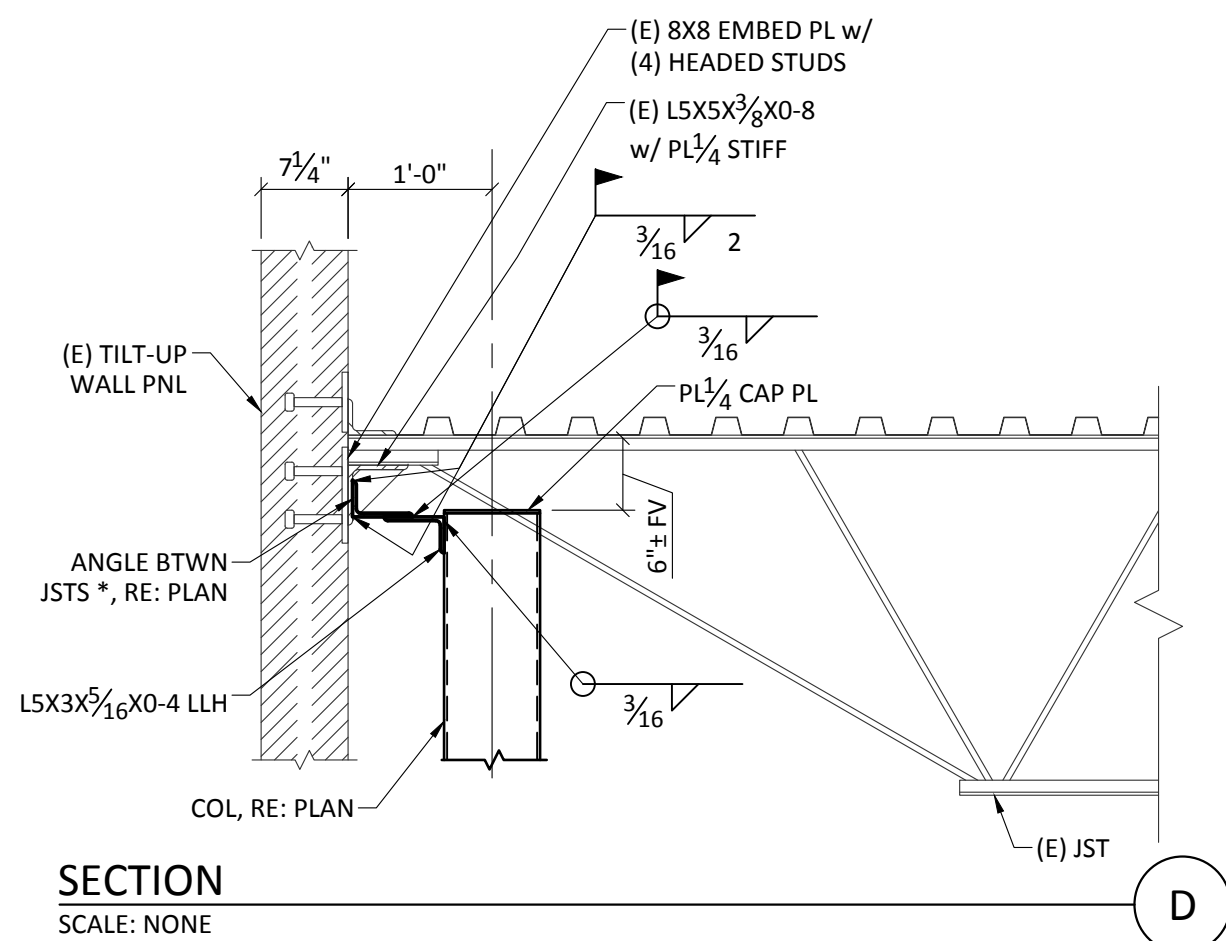
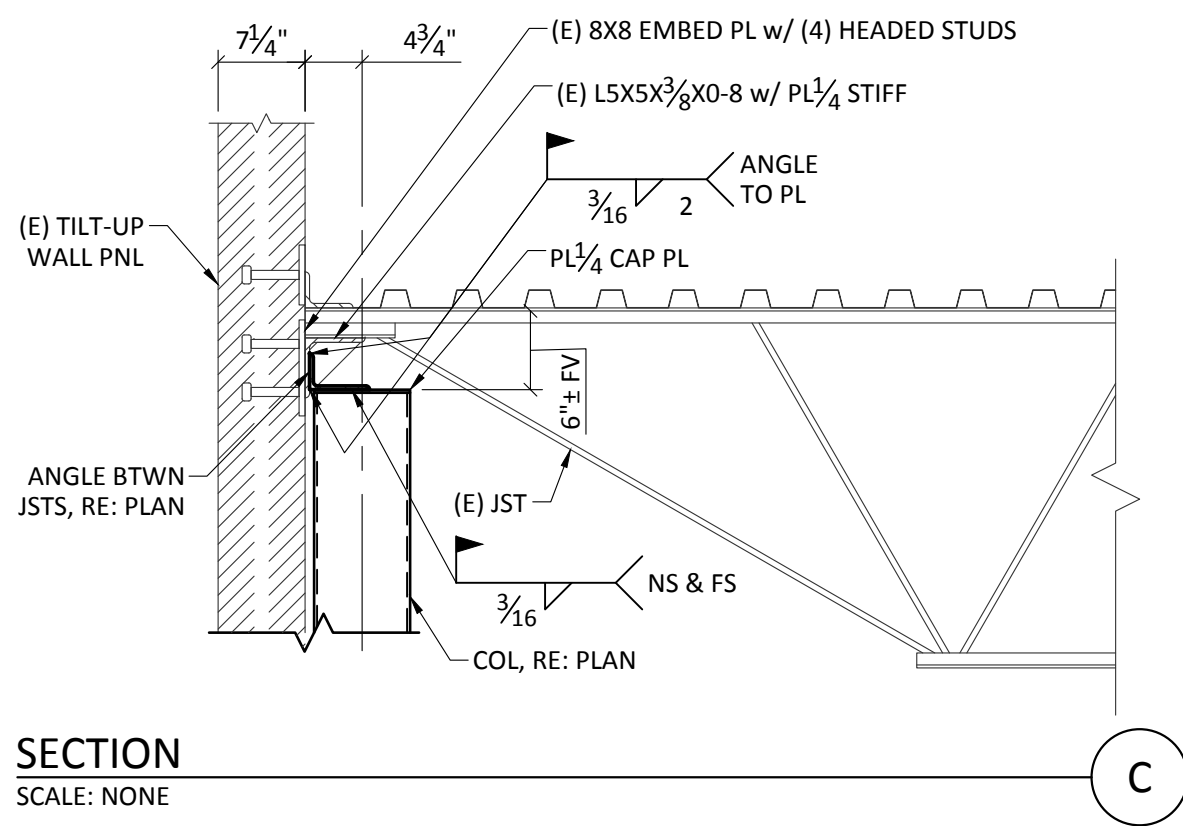
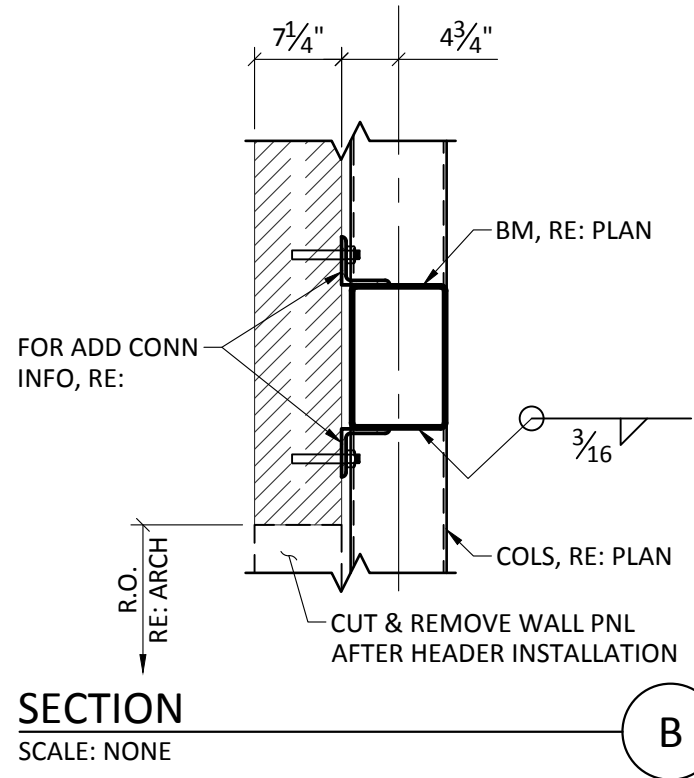
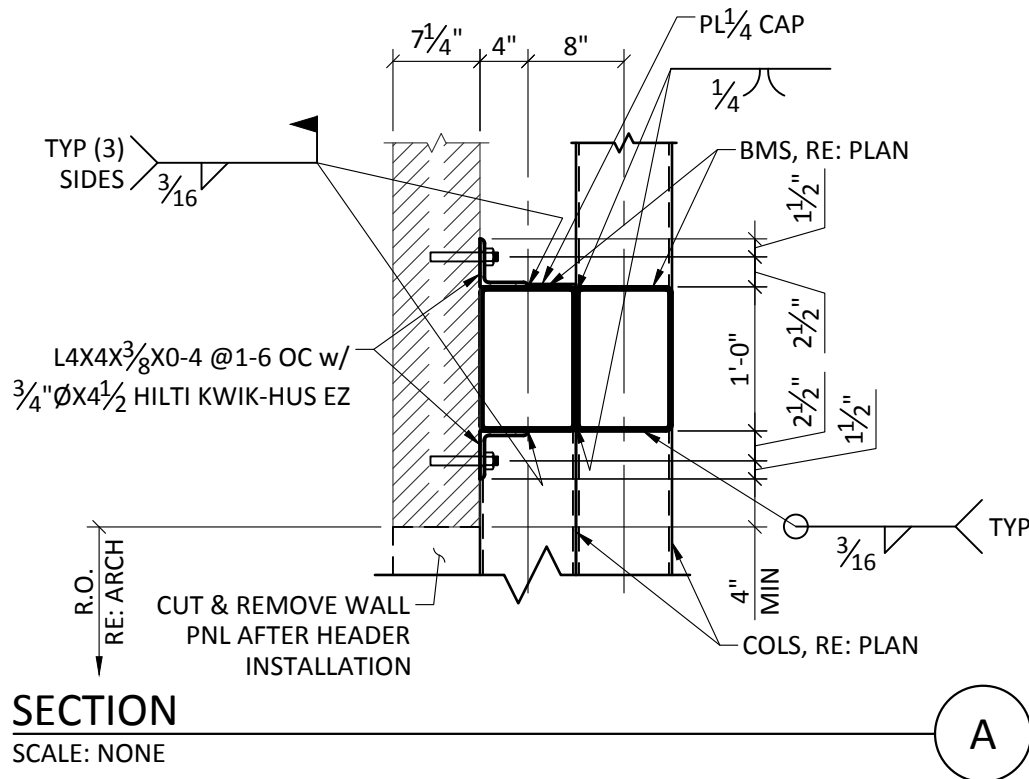
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rev	date	description
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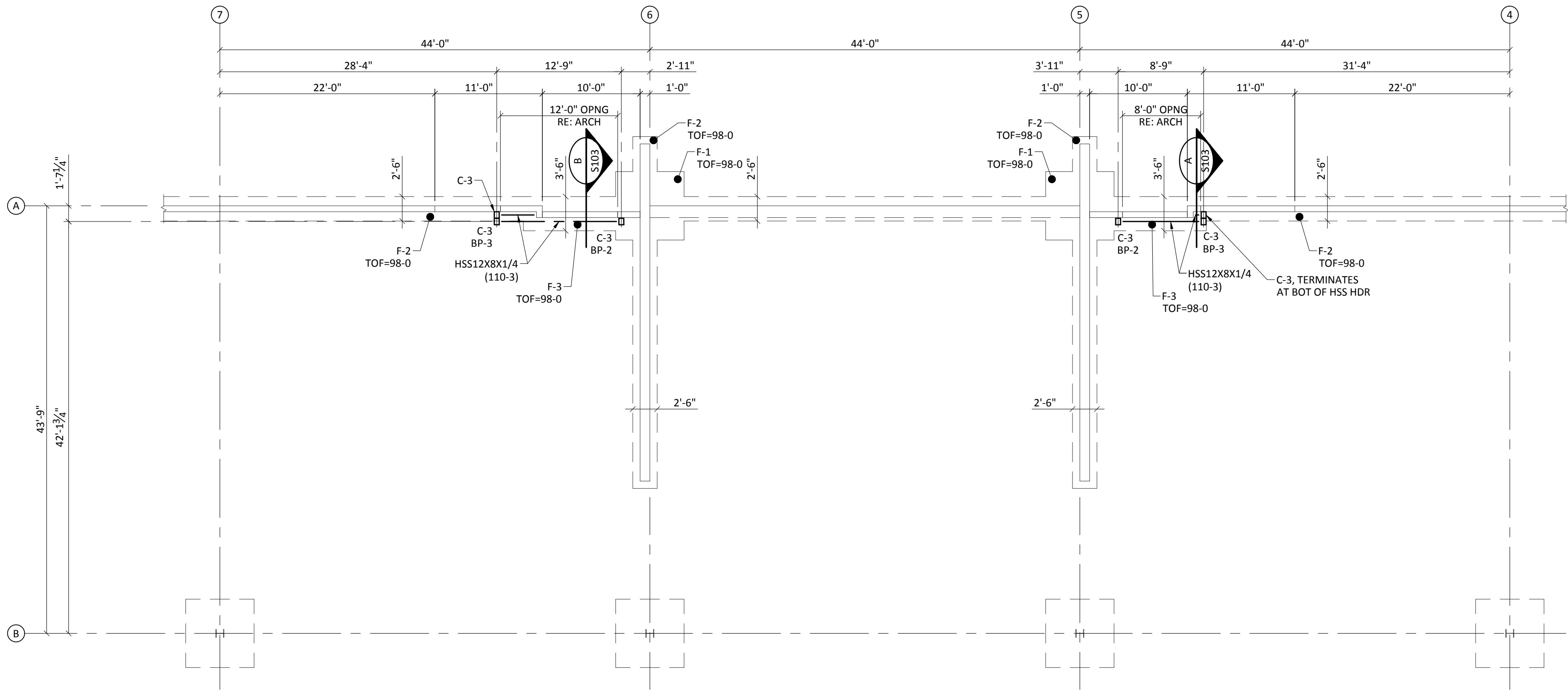
NORTHWEST FRAMING PLAN

sheet number

S102



* LSX3X5/8X0-4 WELDED TO EMBED PL AT SIM. IF COLUMN IS MORE THAN 4" FROM CENTERLINE OF JOIST, PROVIDE ANGLE BTWN JOIST AS INDICATED IN D/S103.



PARTIAL EAST FOUNDATION PLAN

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

TOSL - TOP OF SLAB ELEV = 100-0 = SITE ELEV = 1005.00

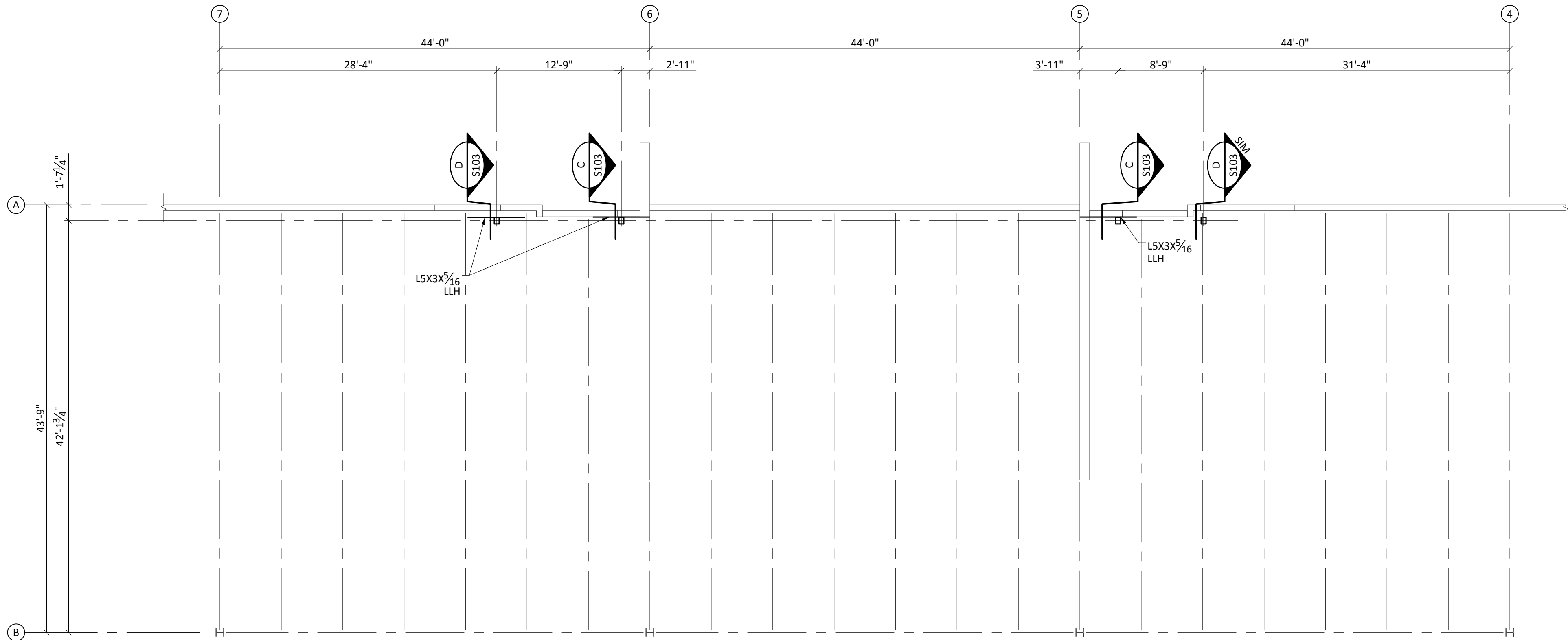
C(##) DENOTES COLUMN MARK, SEE SCHEDULE
BP(##) DENOTES COLUMN BASE PLATE TYPE, SEE DETAILS

* INDICATE DIMENSION TO BE VERIFY WITH ARCH PLANS.

COORDINATE ALL PENETRATIONS THROUGH THE SLAB AND ALL UNDER SLAB ITEMS WITH OTHER TRADES BEFORE CONSTRUCTION.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

COLUMN SCHEDULE	
MARK	SIZE
C-1	HSS20X8X1/2
C-2	HSS8X8X1/4
C-3	HSS8X6X1/4



PARTIAL EAST FRAMING PLAN

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

TOS - TOP OF STEEL BEAM ELEV NOTED THUS:(ELEV)

TOW - TOP OF WALL ELEV = 129-1 UNO

* INDICATE DIMENSION TO BE VERIFY WITH ARCH PLANS.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.



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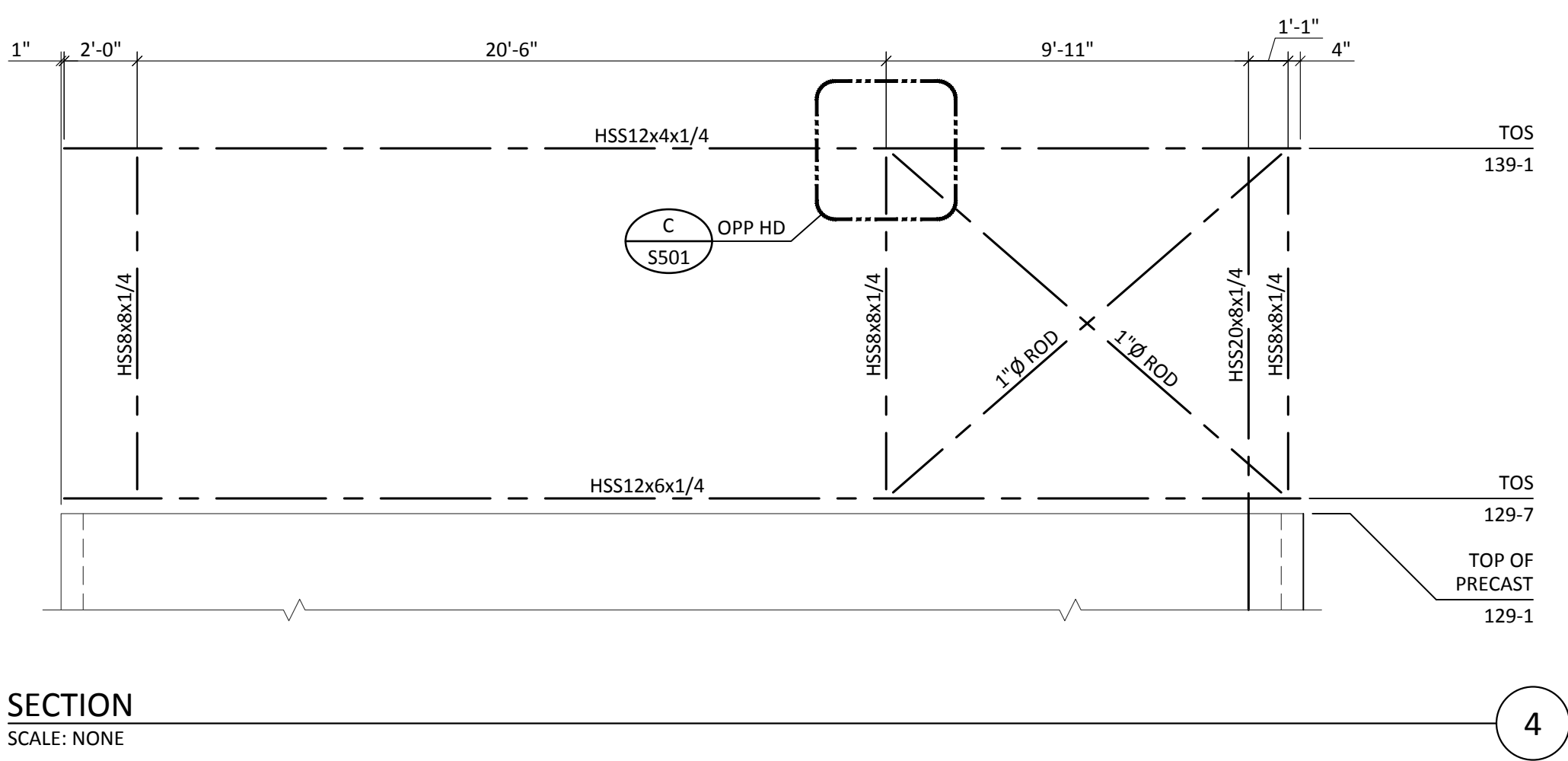
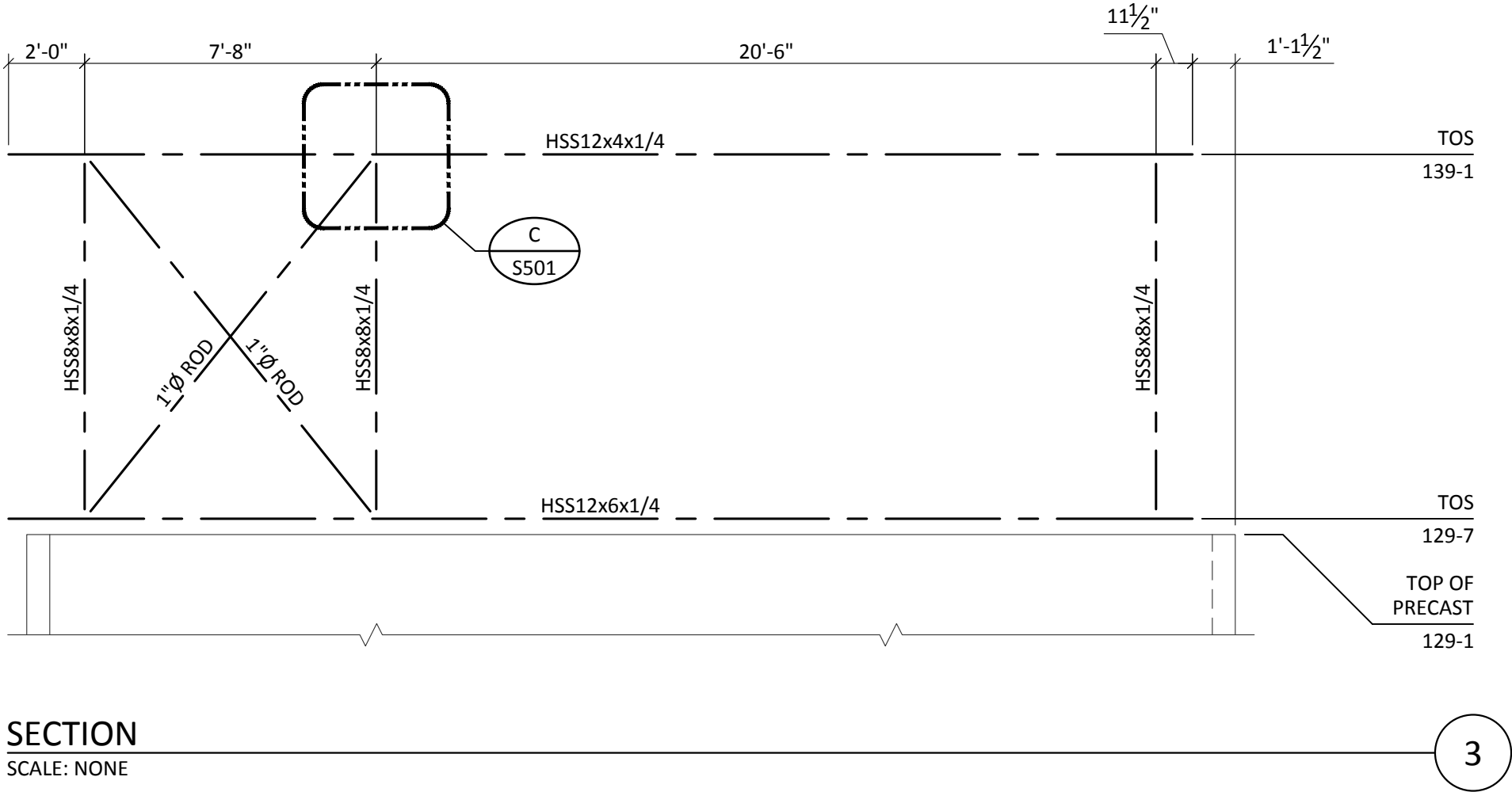
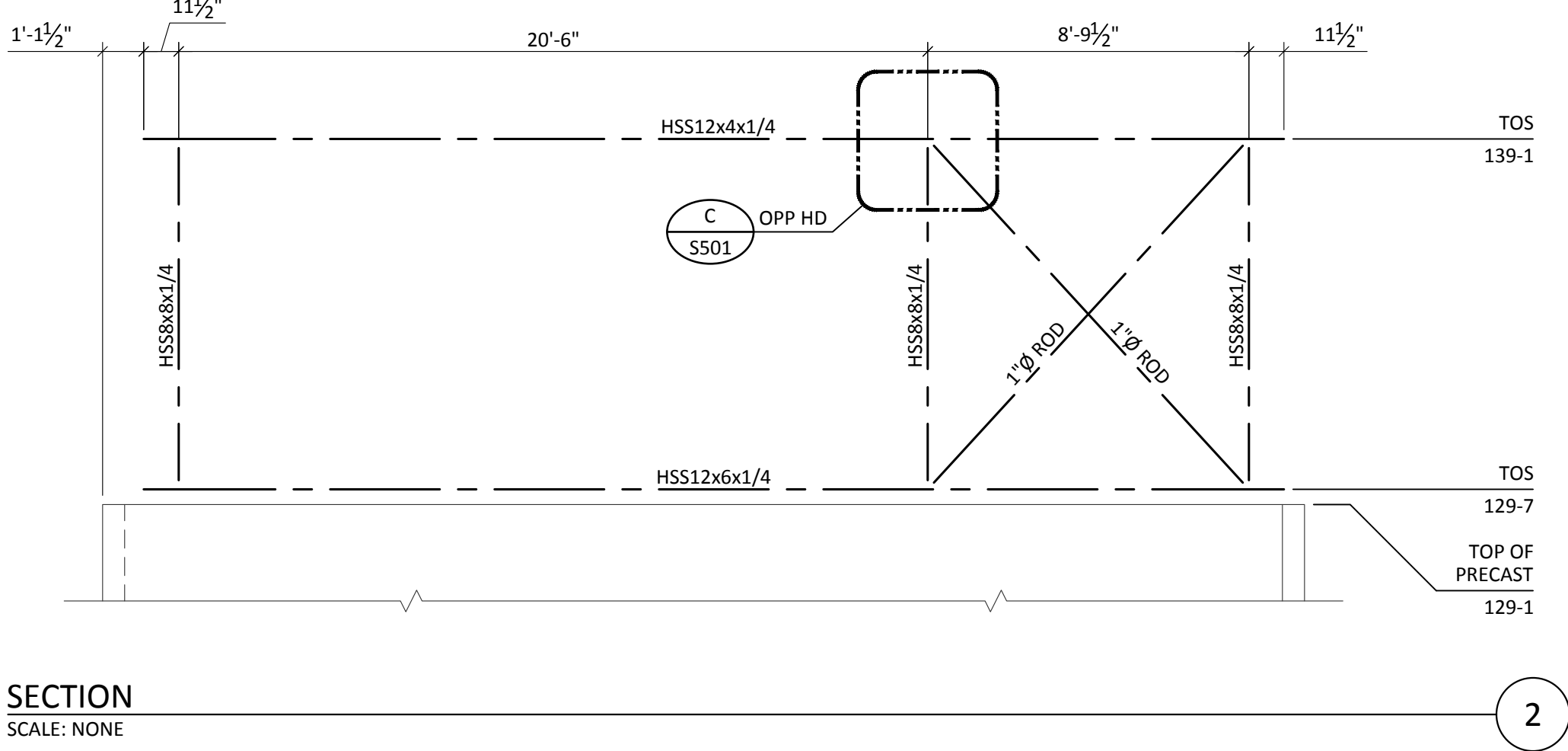
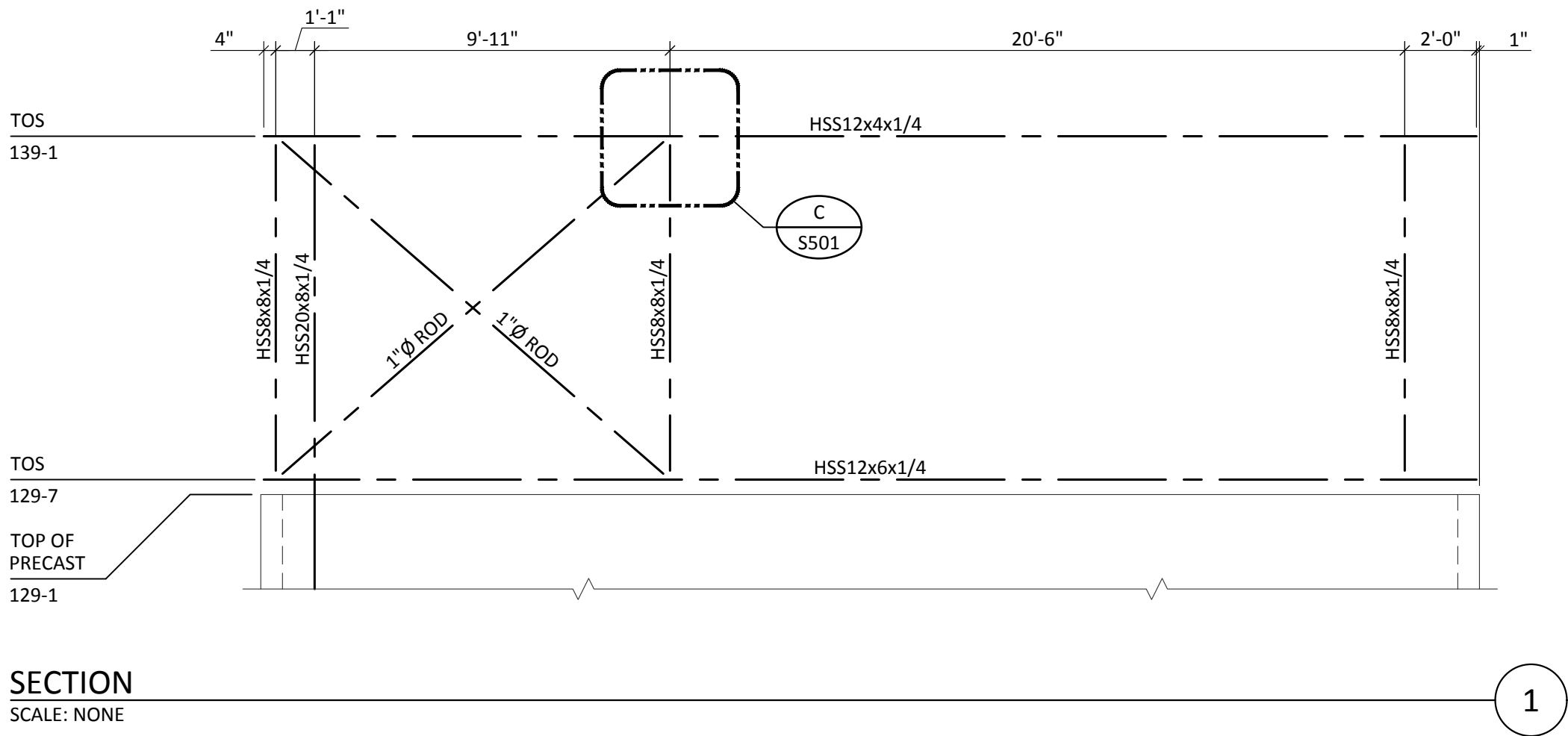
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EAST
FOUNDATION &
FRAMING
PLANS

sheet number

S103

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CERTUS

STRUCTURAL ENGINEERS
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Topeka, Kansas 66612
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P.N. 01210125

Certificate Of Authorization
E-2007035402
FOR REVIEW ONLY, NOT FOR
CONSTRUCTION

FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

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project number 2021-055

date 12.13.21

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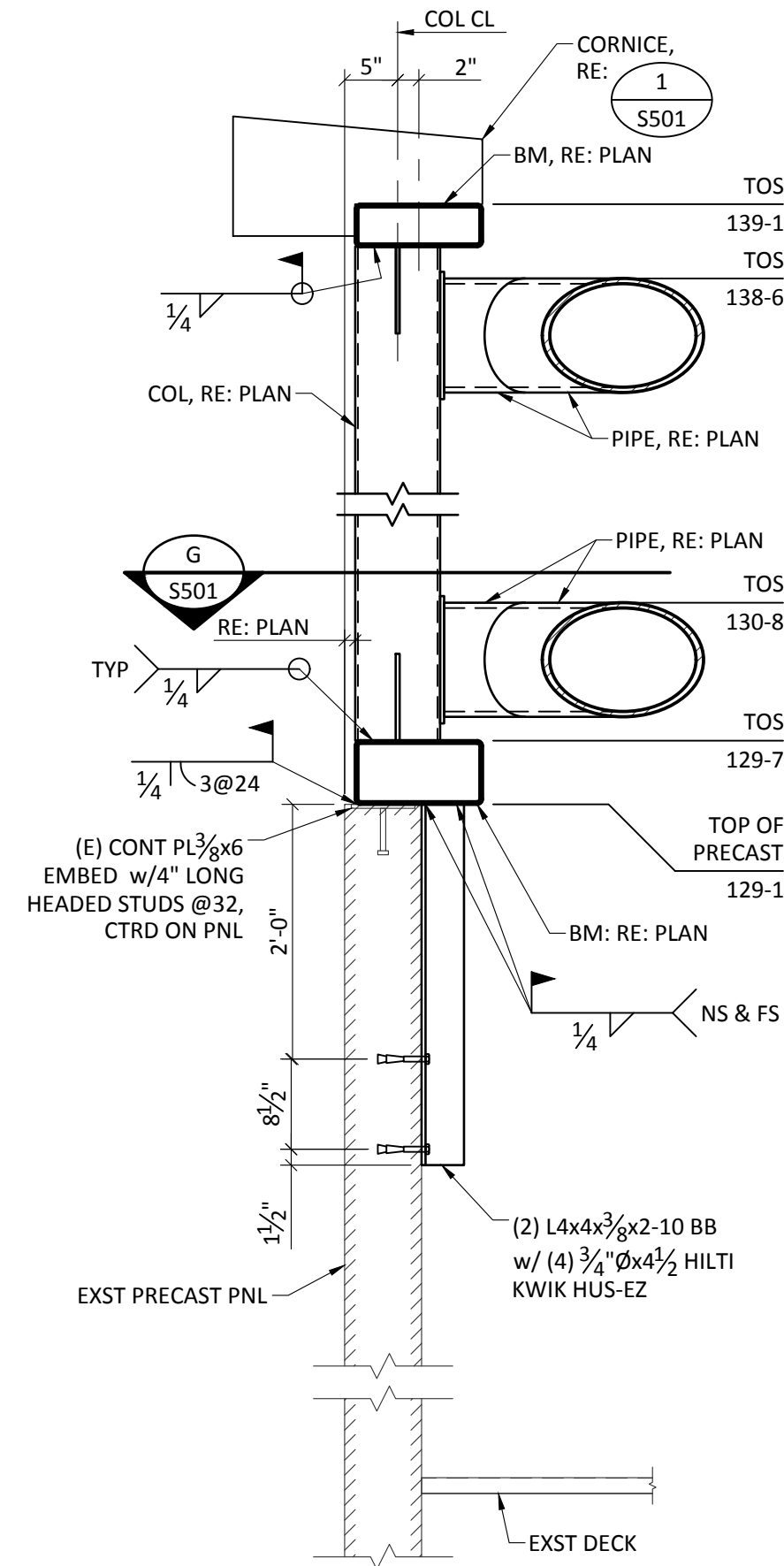
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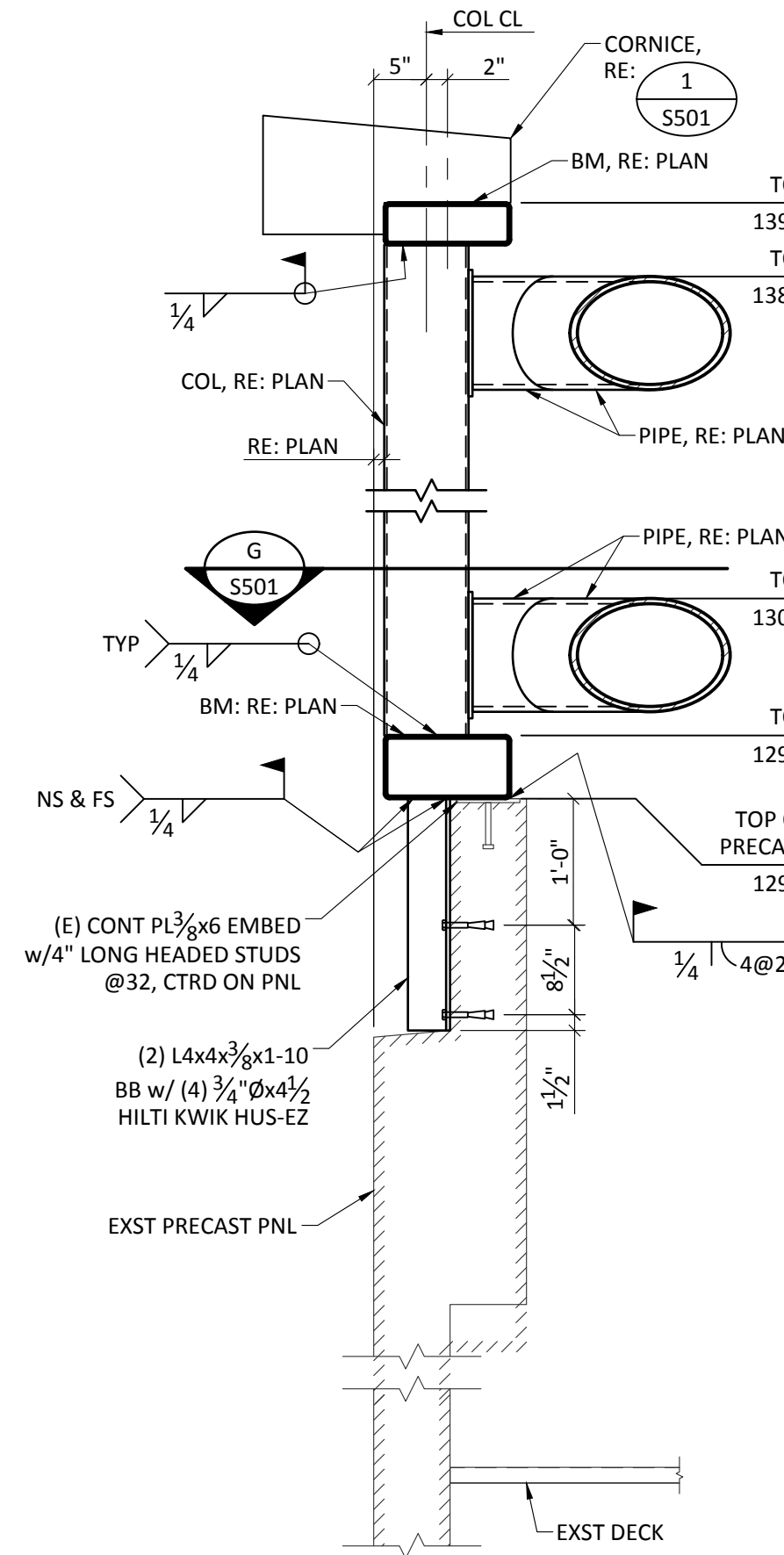
S201

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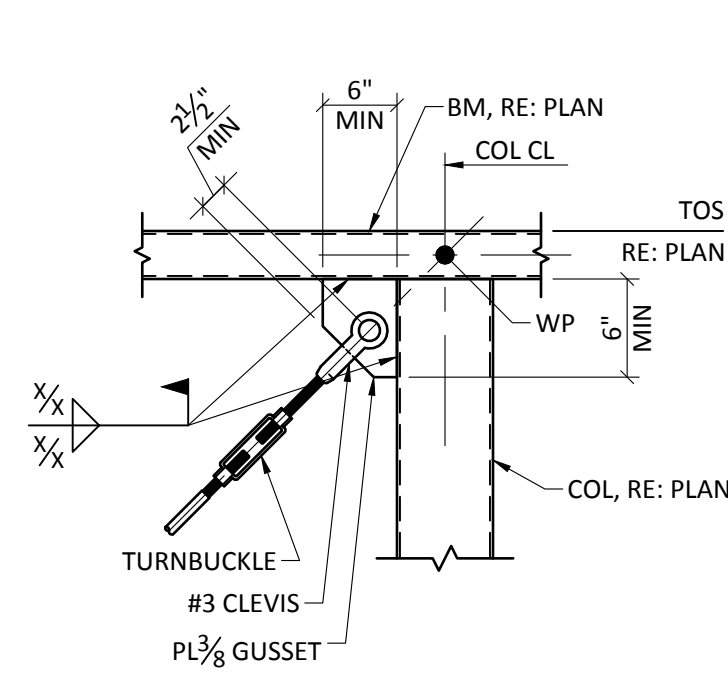
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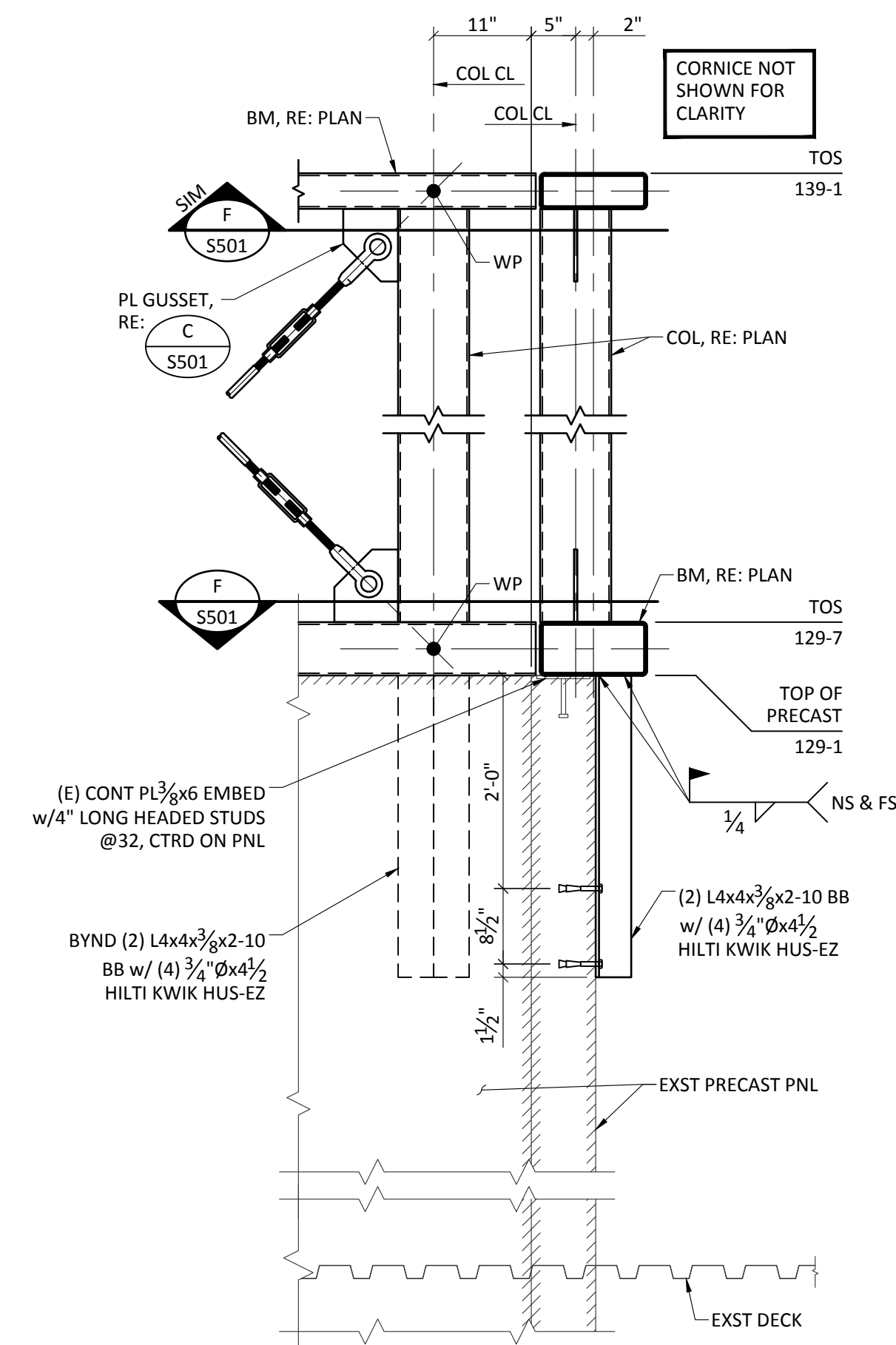
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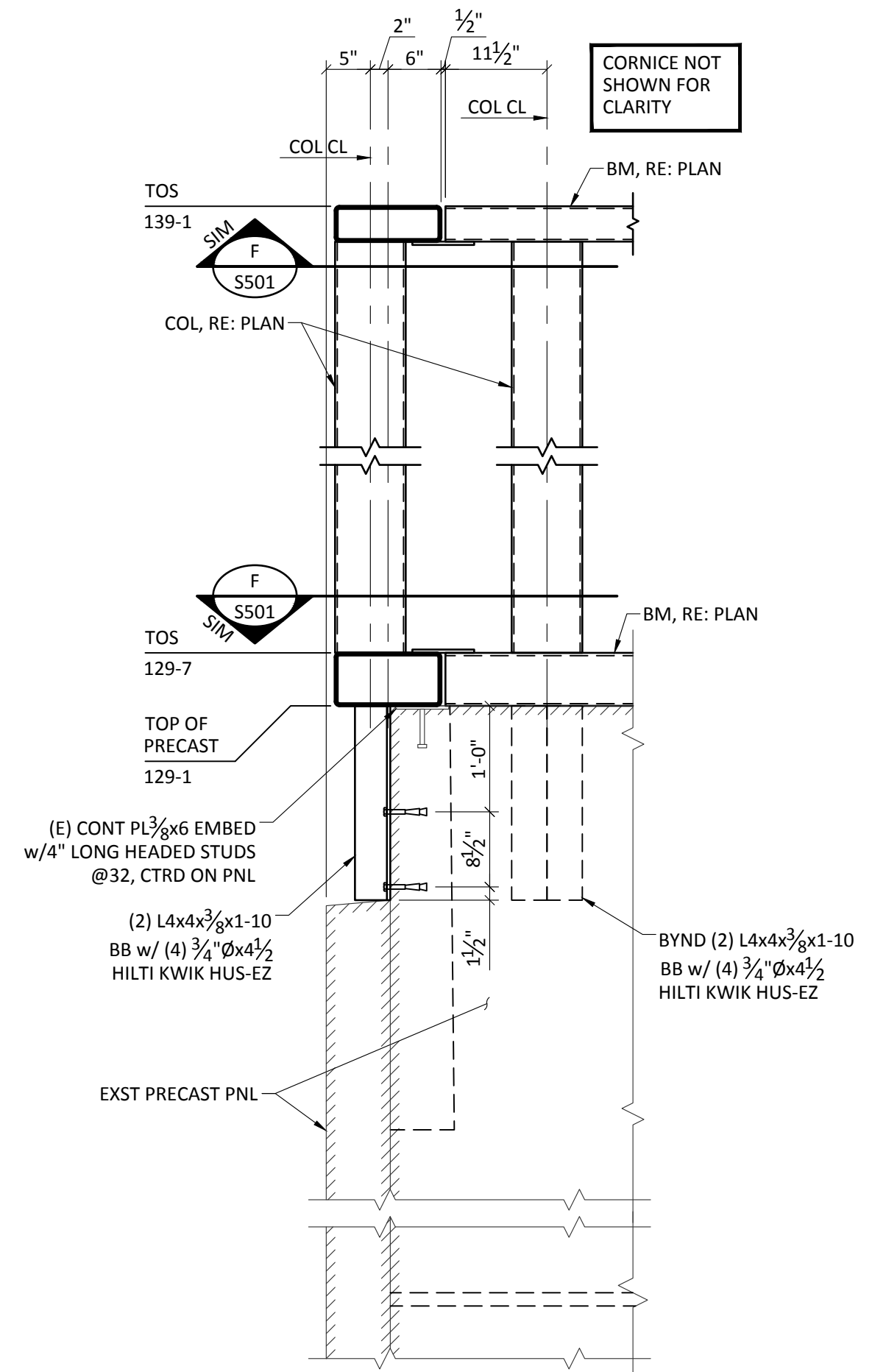
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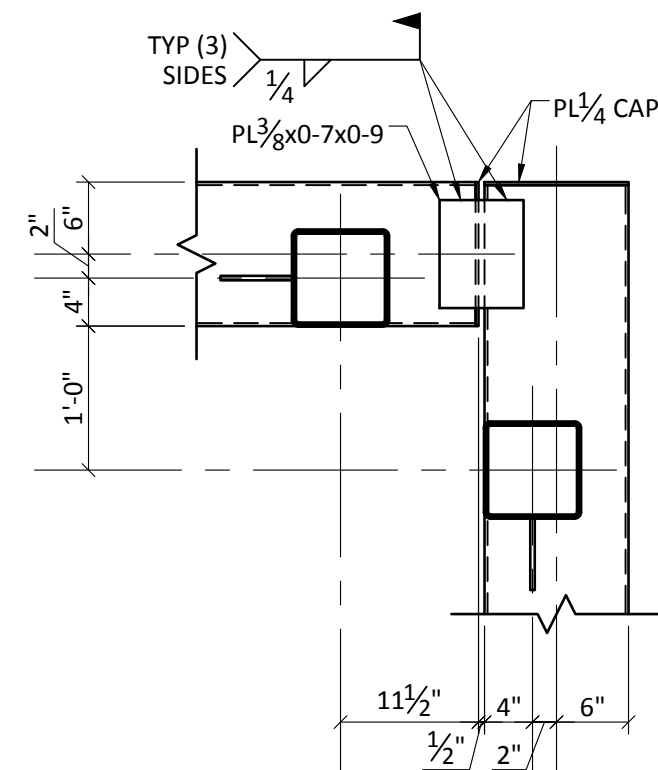
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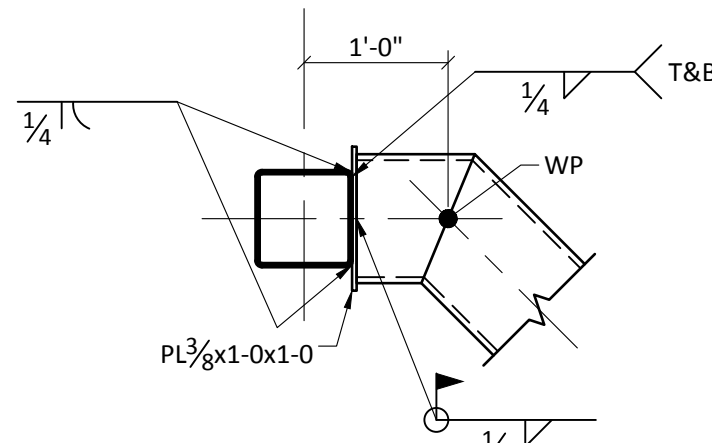
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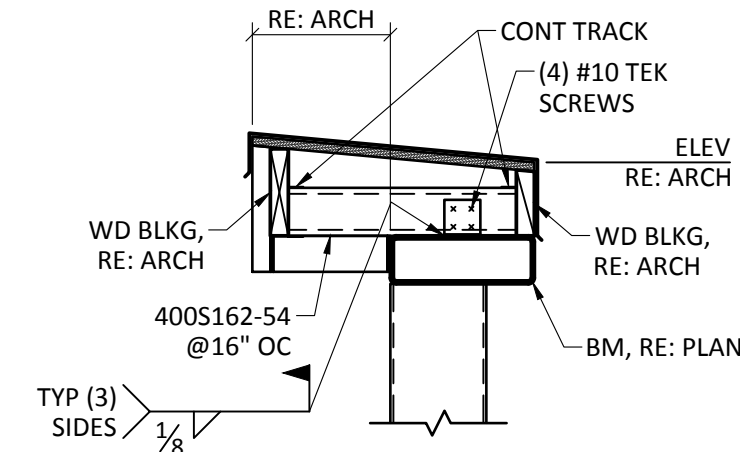
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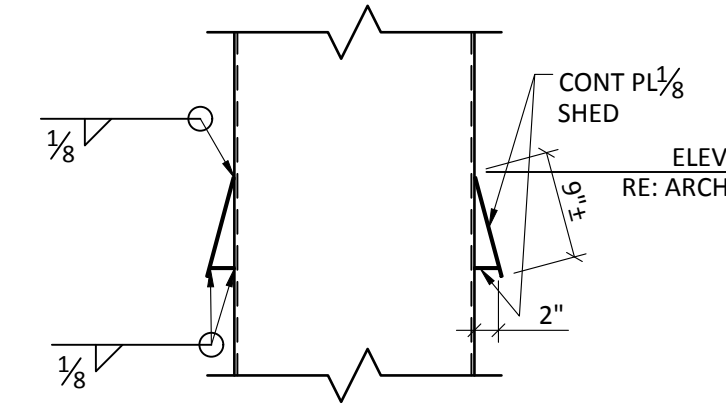
SECTION
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TYPICAL CORNICE DETAIL
SCALE: NONE

1



TYPICAL SHED PLATE
SCALE: NONE

2



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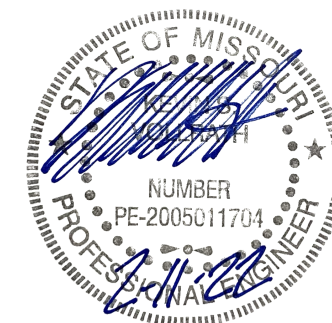
FURNITURE MALL TENANT IMPROVEMENT

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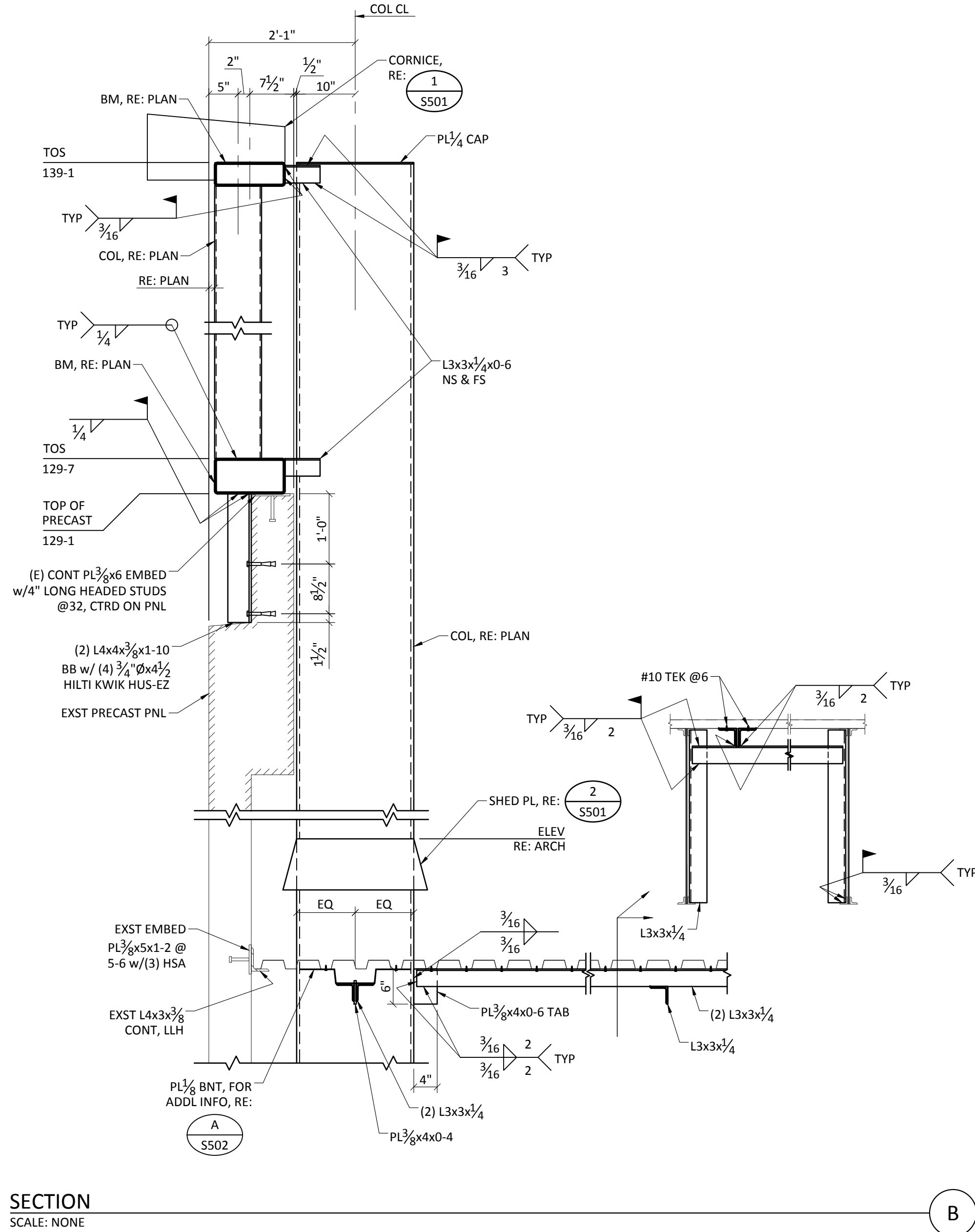
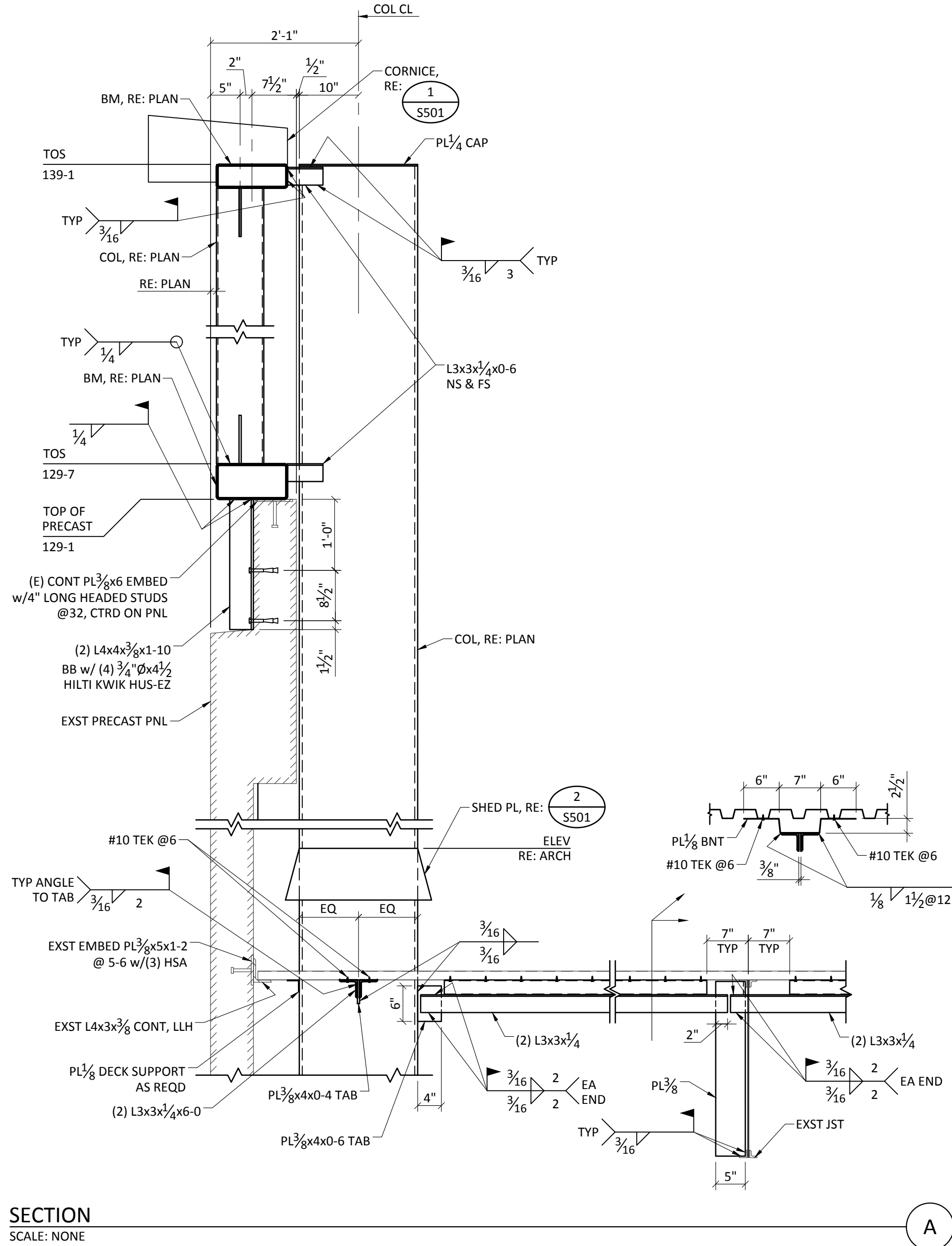
rev date description

FRAMING SECTIONS & DETAILS I

sheet number

S501

P:\2021\01210125 - furniture mail of mo\5_CAD\01210125 - S502, Friday, February 11, 2022 12:38:55 PM by JOHN DONALDSON



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rev	date	description
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FRAMING SECTIONS & DETAILS II

sheet number

S502

HVAC ROOFTOP UNIT SCHEDULE									
MARK <div>⬡</div>	CFM	OA CFM	TOTAL COOLING CAPACITY (TONS)	HEATING CAPACITY (BTUH)		ELECTRICAL		REMARKS	
				INPUT	OUTPUT	BLOWER HP	VOLTS		
RTU-1	5800	1875	15	169,000	135,000	5	460	1	
RTU-2	5800	2025	15	169,000	135,000	5	460	1	
RTU-3	5800	1740	15	169,000	135,000	5	460	1	
RTU-4	5800	2050	17.5	260	208	5	460	1	
RTU-5	2000	350	5	78	62.4	2	460	1, 2	
RTU-6	1675	370	5	78	62.4	2	460	1, 2	
RTU-7	5600	1480	15	169	135	3	460	1.3	
RTU-8	4200	1375	13	169	135	3	460	1.3	
RTU-9	4200	1445	13	169	135	3	460	1.3	
RTU-10	4200	1345	13	169	135	3	460	1.3	
RTU-11	5600	1460	15	169	135	3	460	1.3	
RTU-12	5800	1375	15	169	135	3	460	1.3	
RTU-13	5600	1445	15	169	135	3	460	1.3	
RTU-14	5600	1350	15	169	135	3	460	1.3	
RTU-15	1675	400	5	78	62.4	2	460	1, 2	
RTU-16	2000	405	5	78	62.4	2	460	1, 2	
RTU-17	5800	1465	15	130	104	5	460	1	
RTU-18	5800	1650	15	169	135	5	460	1	
RTU-19	5800	1710	15	169	135	5	460	1	
RTU-20	5800	1960	17.5	169	135	5	460	1	
RTU-21	3000	520	7.5	130	104	2	460	1, 2	
RTU-22	2700	900	10	130	104	2	460	1	
RTU-23	3400	540	7.5	130	104	2	460	1	
RTU-24	2000	380	5	78	62.4	2	460	1, 2	
RTU-25	3600	250	10	130	104	3	460	1	
RTU-26	2950	355	7.5	130	104	2	460	1, 2	
RTU-27	2800	645	7.5	130	104	3	460	1	

NOTES:
1. CLEAN AND PERFORM MANUFACTURERS RECOMMENDED MAINTENANCE ON THE EQUIPMENT THAT IS TO REMAIN INCLUDING CLEANING, FILTER/BELT REPLACEMENTS, AND CHECKING REFRIGERANT LEVELS.
2. ABANDON PACKAGE UNIT IN PLACE AND REMOVE ALL ASSOCIATED INTERIOR DUCTWORK. UNIT SHALL REMAIN AS A POSSIBLE BACKUP UNIT.
3. REMOVE ALL DUCTWORK ASSOCIATED WITH THE PACKAGE UNIT AND REPLACE WITH A CONCENTRIC DIFFUSER TO MATCH THE EXISTING UNITS.

INTERNAL HEAT GAIN								
ITEM DESCRIPTION	QUANTITY	WATTAGE	RATED (BTUH)	USAGE FACTOR	RADIATION FACTOR	SENSIBLE HEAT GAIN (BTUH)	LATENT HEAT GAIN (BTUH)	TOTAL (BTUH)
UNHOODED ELECTRIC APPLIANCES								
ESPRESSO MACHINE	1	0	8200	0.15	0.33	1200	0	1200
COFFEE BREWING URN/WATER TOWER	2	0	1300	0.09	0.17	500	700	2400
OVEN	1	11000	37510	0.2	0.08	7500	0	7500
REACH-IN FRIDGE/FREEZER/DISPLAY CASE	4	0	4800	0.25	0.25	1200	0	4800
ICE MAKER	1	0	5961	0.41	0.45	2444	0	2444
CUSTARD MACHINE	1	0	28371	0.41	0.45	11632	0	11632
TOTAL		11000	51810			10400	700	29976
							TOTAL (TONS)	2.5

REQUIRED MINIMUM OUTDOOR VENTILATION						
2018 INTERNATIONAL MECHANICAL CODE TABLE 403.3						
AREA DESCRIPTION	OCCUPANCY CLASSIFICATION	PERSONS	OUTDOOR CFM/PERSON	AREA SQUARE FOOTAGE	OUTDOOR CFM/S. F.	CFM USED
OFFICES	OFFICE SPACE	16	5	3,350	0.06	281
SALES FLOOR	SALES	1200	7.5	88,075	0.12	19569
CIRCULATION	MALL COMMON AREAS	300	5	20,425	0.06	2726
	CAFÉ	35	7.5	1,300	0.18	497
RECEIVING	WAREHOUSE		0	4,575	0.06	275
					TOTAL	23347

AIR DEVICE SCHEDULE													
MARK <div>⬡</div>	NECK SIZE	DIFFUSER FACE OR CEILING GRID SIZE	TYPE		CFM RANGE	MOUNTING		DUTY		MFR.	MODEL NO.		
			DIFFUSER	REGISTER		LAY-IN	RECESSED	SUPPLY	RETURN				
S-1	8"Ø	24" x 24"	X		200		X	X		TITUS	OMNI		
S-2		EXISTING DIFFUSER, REBALANCE TO SPECIFIED CFM.											
S-3	8"Ø	6" x 48"	X		200		X	X		TITUS	FLOWBAR		

DESIGN CONDITIONS			
LOCATION:	LEE SUMMIT, MO	WET BULB:	57
TOTAL CONDITIONED AREA:	RETAIL: 117,040 SF	DAILY RANGE:	MEDIUM
(KANSAS CITY AP)		DESIGN MONTH:	JULY
OUTDOOR INDOOR		DESIGN HOUR:	3:00 PM
DRY BULB	DRY BULB		
SUMMER 93	75		
WINTER 4	70		
HEAT LOSS/GAIN SUMMARY			
	U-VALUE	LOSS	SENSIBLE GAIN LATENT GAIN
WALLS	0.117	138,768	33,847 0
WINDOWS	0.75	93,456	62,272 0
DOORS	0.56	9,978	3,048 0
CEILINGS	0.087	471,203	359,627 0
FLOORS	1.16	0	0 0
INTERNAL LOADS		0	448,757 118,750
INFILTRATION		0	0 0
VENTILATION		1,661,092	453,025 622,338
TOTAL		2,374,497	1,171,263 741,088

DESIGN CONDITIONS			
LOCATION:	LEE SUMMIT, MO	WET BULB:	57
TOTAL CONDITIONED AREA:	DOCK AREA: 4,746 SF	DAILY RANGE:	MEDIUM
(KANSAS CITY AP)		DESIGN MONTH:	JULY
OUTDOOR INDOOR		DESIGN HOUR:	3:00 PM
DRY BULB	DRY BULB		
SUMMER 93	75		
WINTER 4	70		
HEAT LOSS/GAIN SUMMARY			
	U-VALUE	LOSS	SENSIBLE GAIN LATENT GAIN
WALLS	0.117	29,395	8,714 0
WINDOWS	0.75	0	0 0
DOORS	0.56	14,138	5,177 0
CEILINGS	0.087	19,107	6,862 0
FLOORS	1.16	0	0 0
INTERNAL LOADS		0	1,707 0
INFILTRATION		179,556	24,575 33,759
VENTILATION		0	0 0
TOTAL		242,196	47,055 33,759

DESIGN CONDITIONS			
LOCATION:	LEE SUMMIT, MO	WET BULB:	57
TOTAL CONDITIONED AREA:	CAFE: 1,080 SF	DAILY RANGE:	MEDIUM
(KANSAS CITY AP)		DESIGN MONTH:	JULY
OUTDOOR INDOOR		DESIGN HOUR:	3:00 PM
DRY BULB	DRY BULB		
SUMMER 93	75		
WINTER 4	70		
HEAT LOSS/GAIN SUMMARY			
	U-VALUE	LOSS	SENSIBLE GAIN LATENT GAIN
WALLS	0.117	2,556	354 0
WINDOWS	0.75	4,116	1,841 0
DOORS	0.56	804	294 0
CEILINGS	0.087	7,556	2,268 0
FLOORS	1.16	0	0 0
INTERNAL LOADS		0	30,283 1,400
INFILTRATION		18,456	2,570 3,530
VENTILATION		0	0 0
TOTAL		33,532	37,610 4,930

- GENERAL NOTES:**
1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE (IMC).
 2. ALL DUCT CONSTRUCTION, GAUGES, METHODS OF HANGING AND SUPPORTING SHALL CONFORM TO THE LATEST SMACNA STANDARDS AND CHAPTER 6 OF THE IMC.
 3. ALL EXHAUST, RETURN, AND SUPPLY DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL TO SMACNA 2" PRESSURE CLASS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.
 4. ALL ROUND EXHAUST AND SUPPLY DUCTS SHALL BE STANDARD GALVANIZED "SNAP-LOCK" PIPE WITH ALL CHANGES IN DIRECTION MADE VIA ADJUSTABLE ELBOWS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.
 5. PROVIDE MANUAL DAMPERS WITH LOCKING QUADRANTS IN ALL LOCATIONS INDICATED OR REQUIRED TO BALANCE THE AIR SYSTEM.
 6. COORDINATE THE LOCATION OF DUCTWORK WITH THE PLACEMENT OF THE EXISTING LIGHT FIXTURES AND THE EXISTING STRUCTURAL MEMBERS.
 7. LINE ALL DUCTS WITH 1/2" INSULATION. (EXCLUDE EXHAUST AND DUCTS UNDER 10" IN DIAMETER OR 10" x 10" IN SIZE). ALL DUCT DIMENSIONS GIVEN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (W x D).
 8. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR THE CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. VERIFY IN THE FIELD EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN.
 9. ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILINGS SHALL BE BY THE GENERAL CONTRACTOR.
 10. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED, WITH ADEQUATE ROOM FOR SERVICING.
 11. HVAC UNITS SHALL BE MOUNTED LEVEL.
 12. SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.
 13. CONTRACTOR SHALL REVIEW ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 14. ALL NEW THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE DEVICES.



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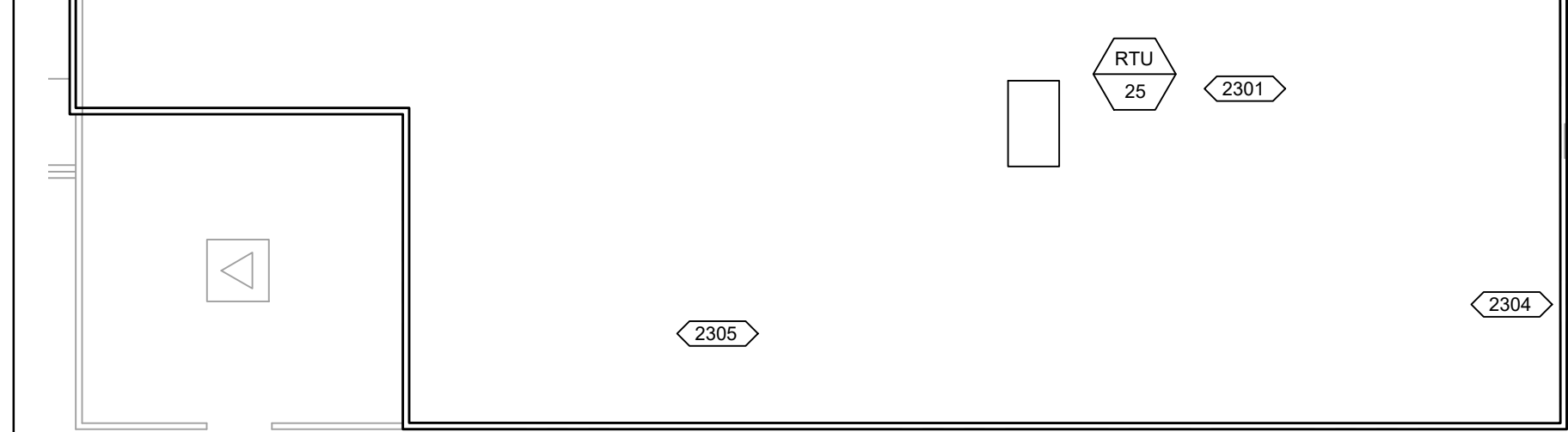
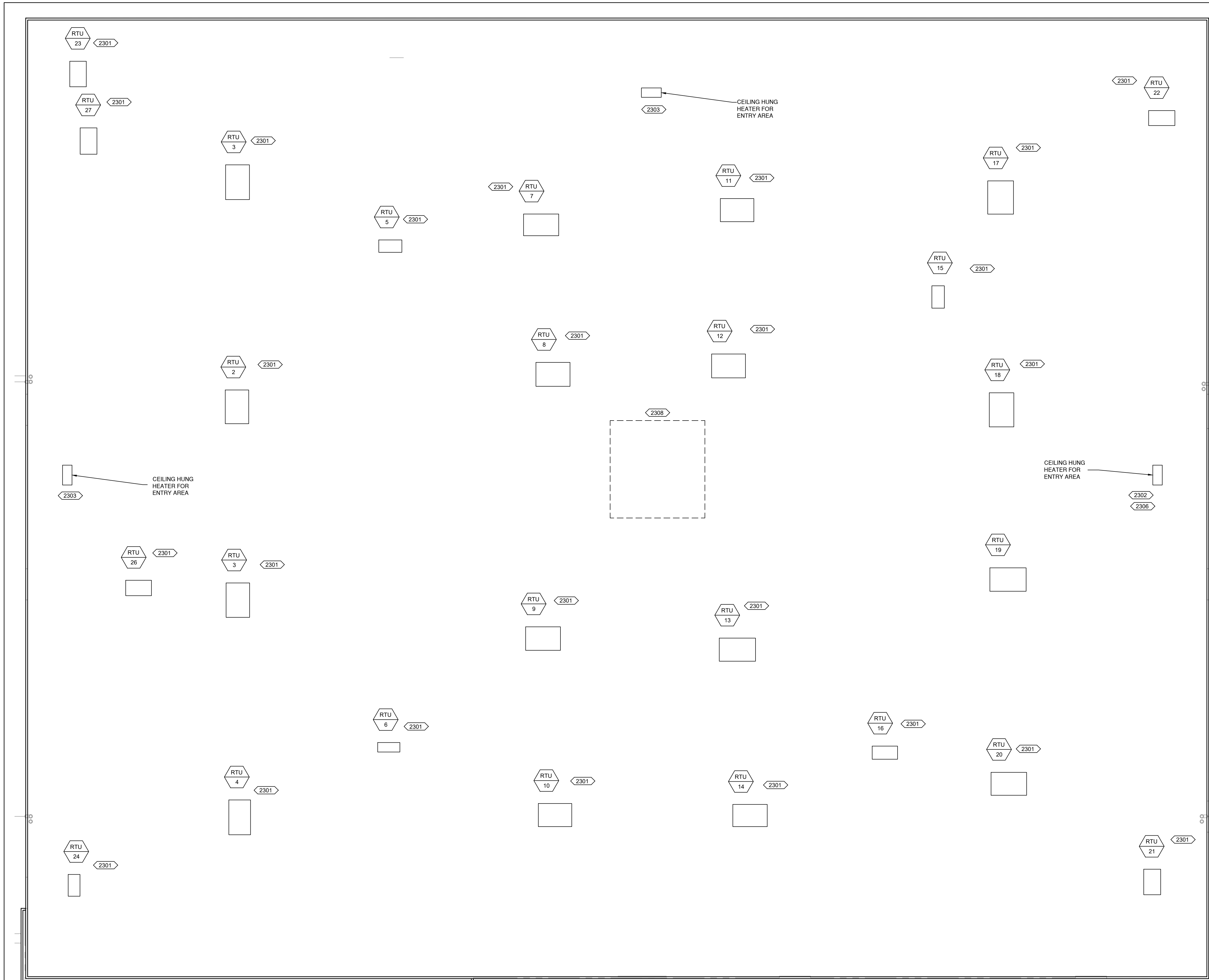
FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022
3	PLAN REV. COMMENTS	3-23-2022

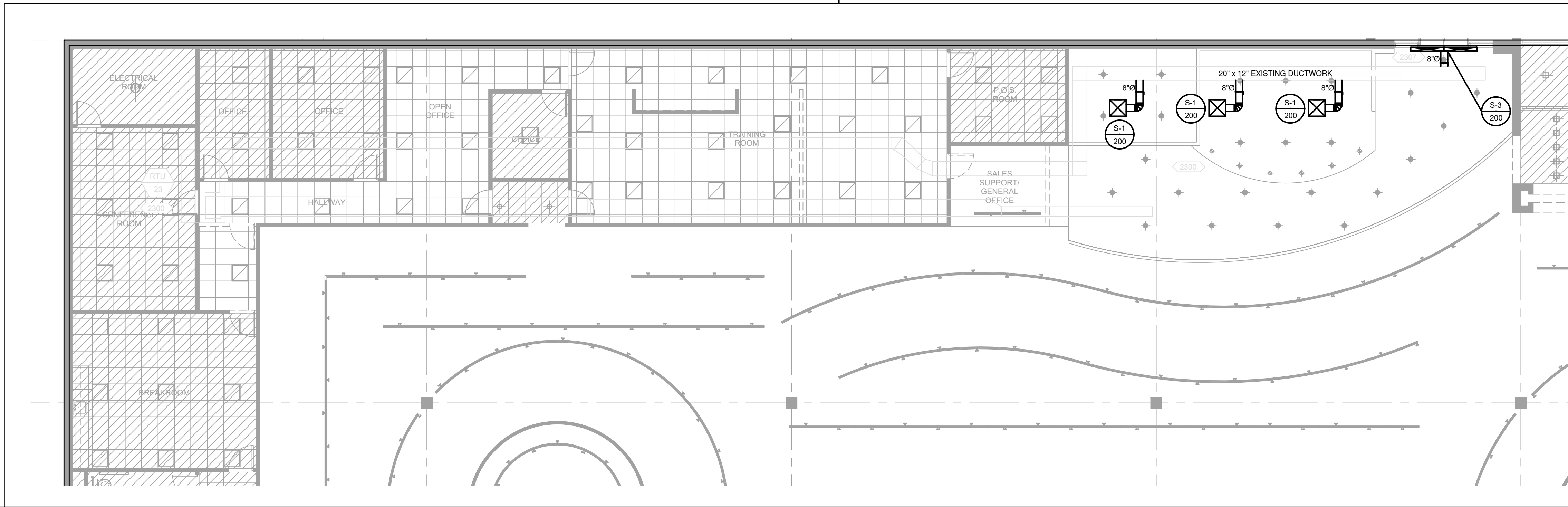
Sheet Index	
Mechanical Series	M1.0 Mechanical Notes, Schedules M2.0 Mechanical Plan, Cafe Mechanical Plan
Plumbing Series	P1.0 Plumbing Plan, Sanitary Riser, Plumbing Fixture Schedule, Supply Riser
Electrical Series	E1.0 Power Plan, Electrical Riser E2.0 Lighting Plan, Light Fixture Schedule, LPD E3.0 Power Panelboard Layouts, Track Light Switching Riser E4.0 Existing Electrical Riser
Fire Series	F1.0 Fire Sprinkler Scope of Work

Mechanical Schedules

Date	3-23-2022
Drawn by	SCH
Checked by	SCH
M1.0	
Scale	AS NOTED



1 MECHANICAL ROOF PLAN
SCALE: 1/16" = 1'-0"



2 CAFE AND OFFICE MECHANICAL
SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
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 14. ALL NEW THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE DEVICES.

INSTALLATION NOTES: (THIS SHEET ONLY)

- 2300** EXISTING DUCTWORK FOR RTU-23 SHALL BE RECONFIGURED FOR THE CAFE AND NEW ENTRY.
- 2301** UPDATE AND RESET BUILDING MANAGEMENT SYSTEM (BMS) FOR OPERATION BY NEW OWNERSHIP. BMS SHALL BE UPDATED WITH THE LATEST SOFTWARE AND ANY NECESSARY HARDWARE REPLACEMENT DUE TO THE NEW UPDATED SOFTWARE. SYSTEM SHALL BE FULLY OPERATIONAL FOR NEW OWNERSHIP. ALTERNATE: PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT FOR EACH RTU REMOVED UNIT FROM THE BMS.
- 2302** REMOVE HEATER SERVING REMOVED ENTRY AREA. CONSULT ARCHITECTURAL DRAWINGS FOR NEW CONFIGURATION.
- 2303** PERFORM MAINTENANCE ON REMAINING CEILING MOUNTED HEATERS SERVING THE ENTRY VESTIBULES. THIS SHALL INCLUDE THE REPLACEMENT OF FILTERS AND CLEANING THE UNIT.
- 2304** PROVIDE HVAC SHUT-OFF DEVICE AT OVERHEAD DOORS IN RECEIVING THAT SHALL SHUT OFF THE HEATING COOLING AND HUMIDITY CONTROL FOR RTU-25 WHEN A DOOR IS OPEN.
- 2305** EXISTING PERMANENT ROOF ACCESS AND HATCH TO REMAIN. ROOF HATCH IS LOCATED IN LOADING DOCK AREA.
- 2306** REMOVE EXHAUST FAN ASSOCIATED WITH REMOVED ENTRY VESTIBULE. REMOVED SINGLE USER RESTROOM, AND COSMETIC COUNTER AREA. PERFORM MAINTENANCE ON ALL OTHER EXHAUST FANS SERVING ELECTRICAL ROOMS AND RESTROOMS. FIELD VERIFY LOCATIONS.
- 2307** INSTALL SLOT DIFFUSER AT NEW ENTRY WITH NO VESTIBULE.
- 2308** ABANDON AND LEAVE-IN-PLACE 5-TON RTU#s SERVING DRESSING ROOM AREAS. REMOVED ASSOCIATED DUCTWORK.

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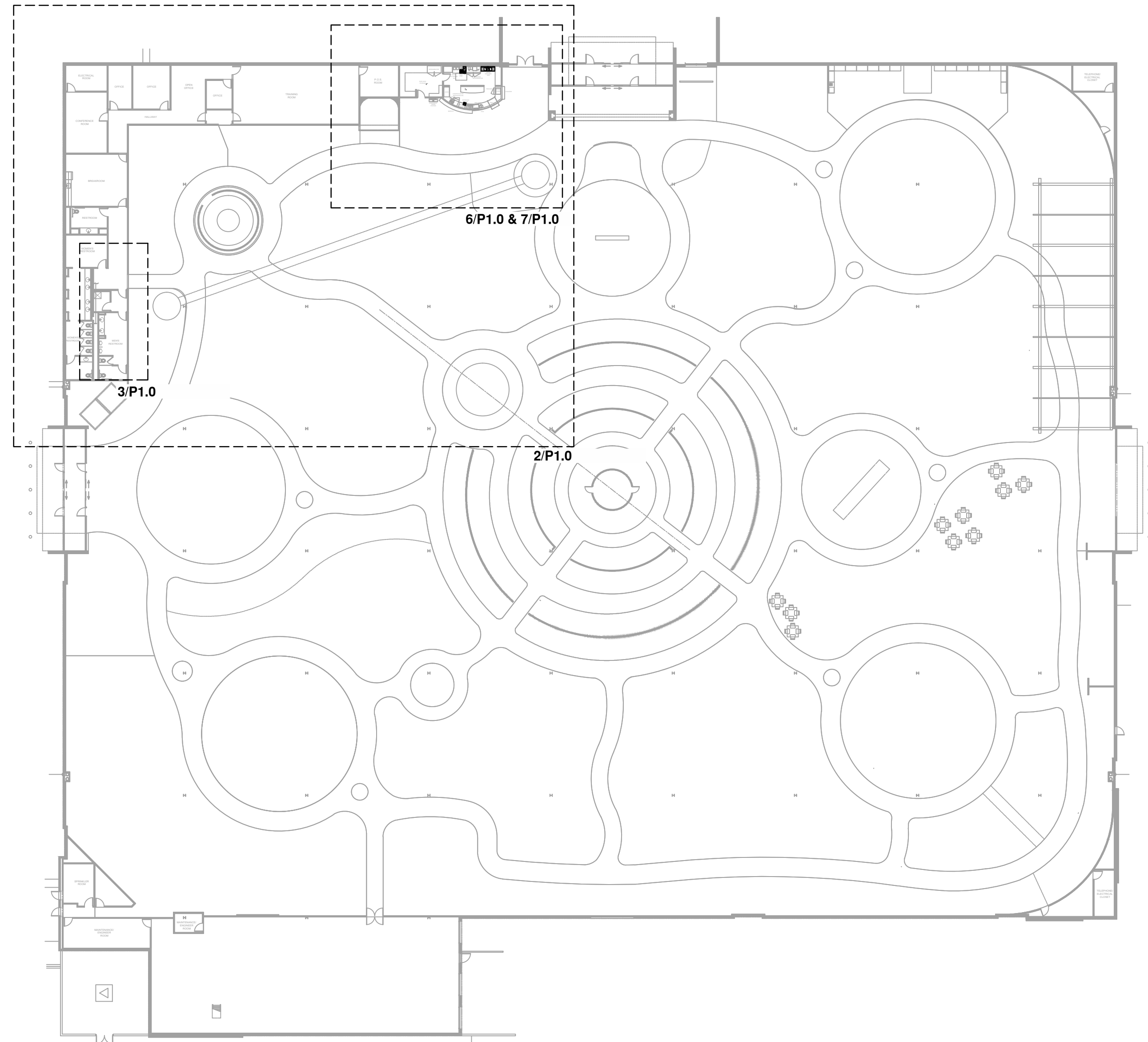
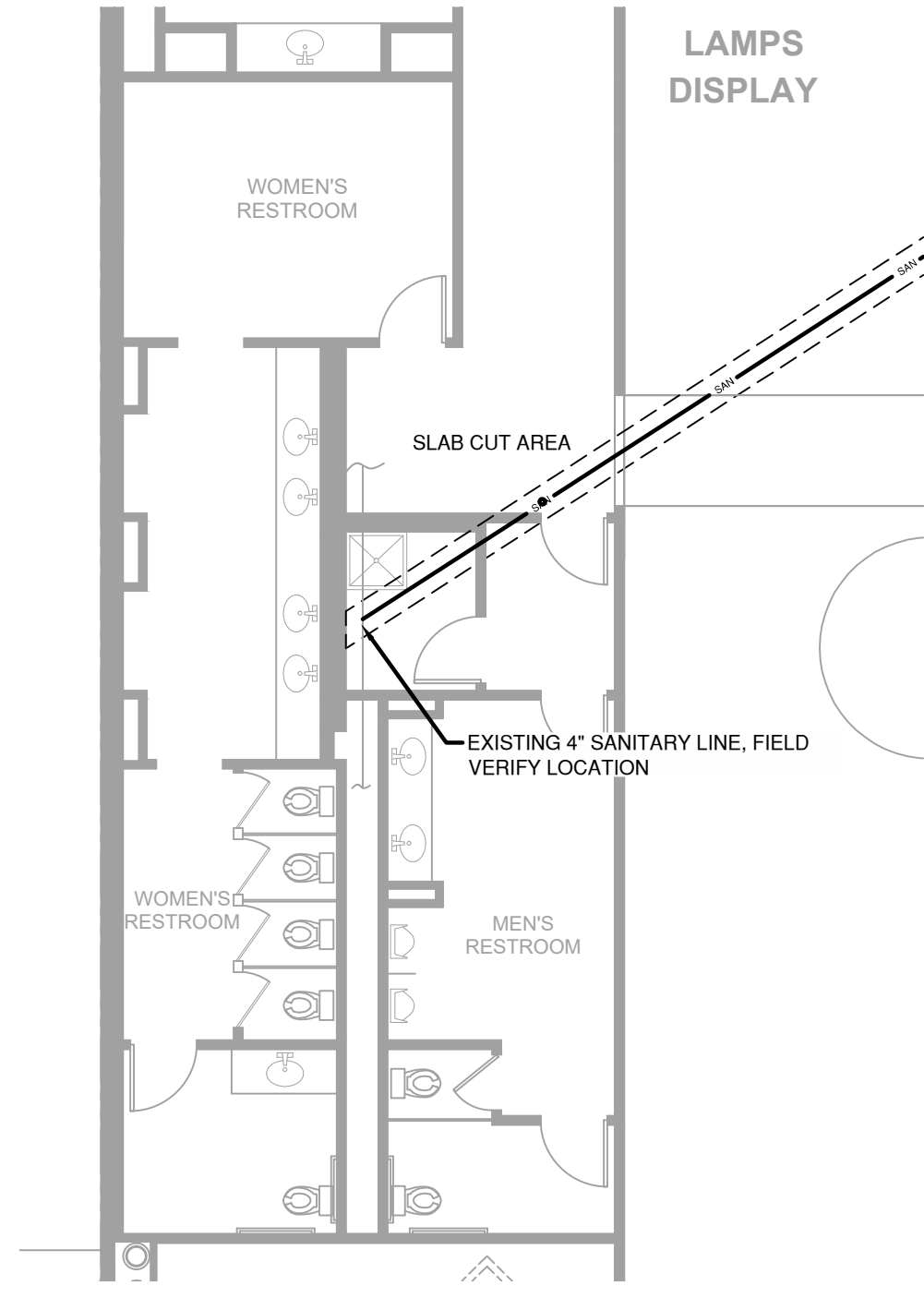
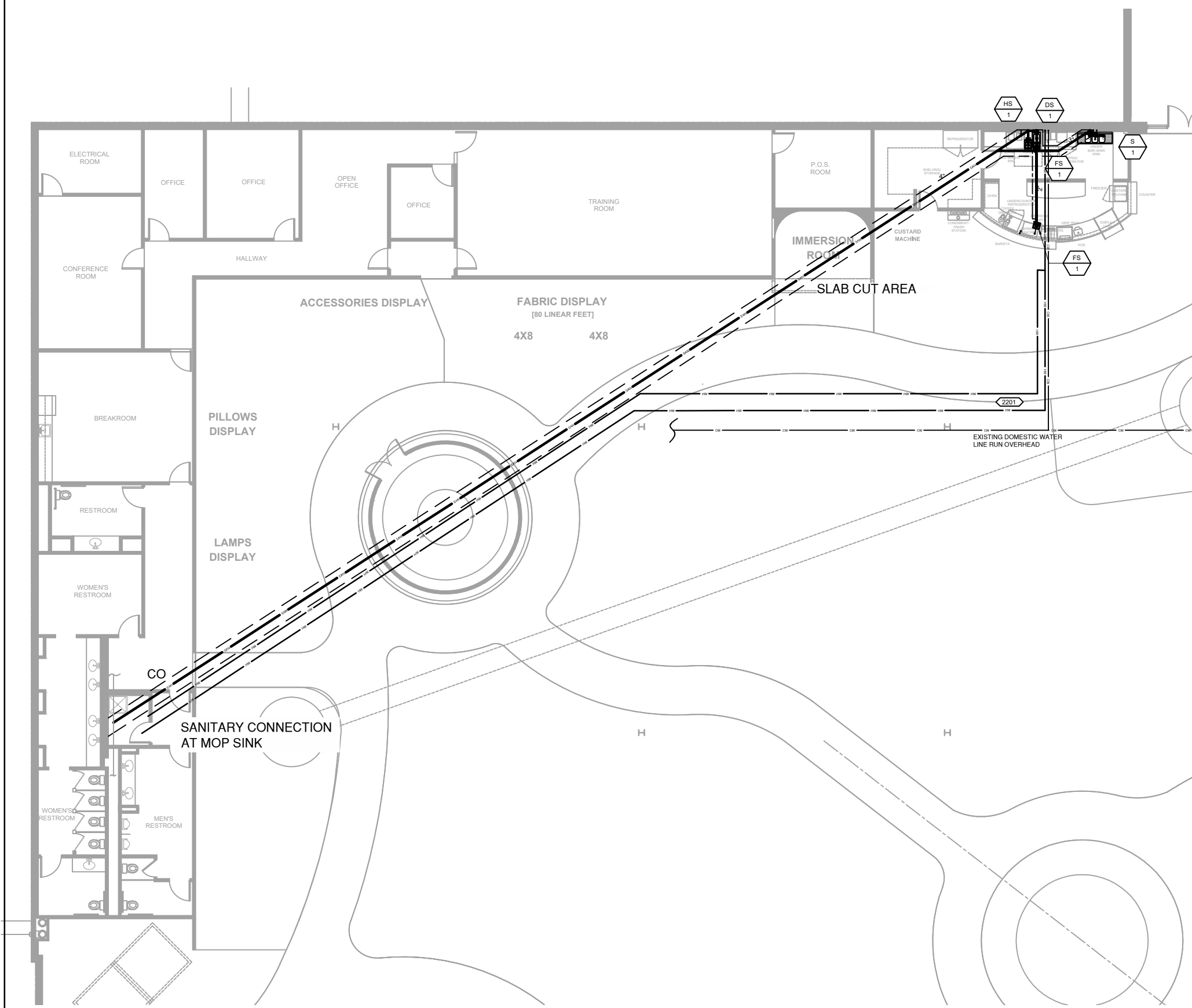
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Sheet Index	
Mechanical Series	
M1.0	Mechanical Notes, Schedules
M2.0	Mechanical Plan, Cafe Mechanical Plan
Plumbing Series	
P1.0	Plumbing Plan, Sanitary Riser, Plumbing Fixture Schedule, Supply Riser
Electrical Series	
E1.0	Power Plan, Electrical Riser
E2.0	Lighting Plan, Light Fixture Schedule, LPD
E3.0	Power Panelboard Layouts, Track Light Switching Riser
E4.0	Existing Electrical Riser
Fire Series	
F1.0	Fire Sprinkler Scope of Work

Mechanical Plan Detailed Mechanical Plans	
Date	3-23-2022
Drawn by	SCH
Checked by	SCH
M2.0	
Scale	AS NOTED

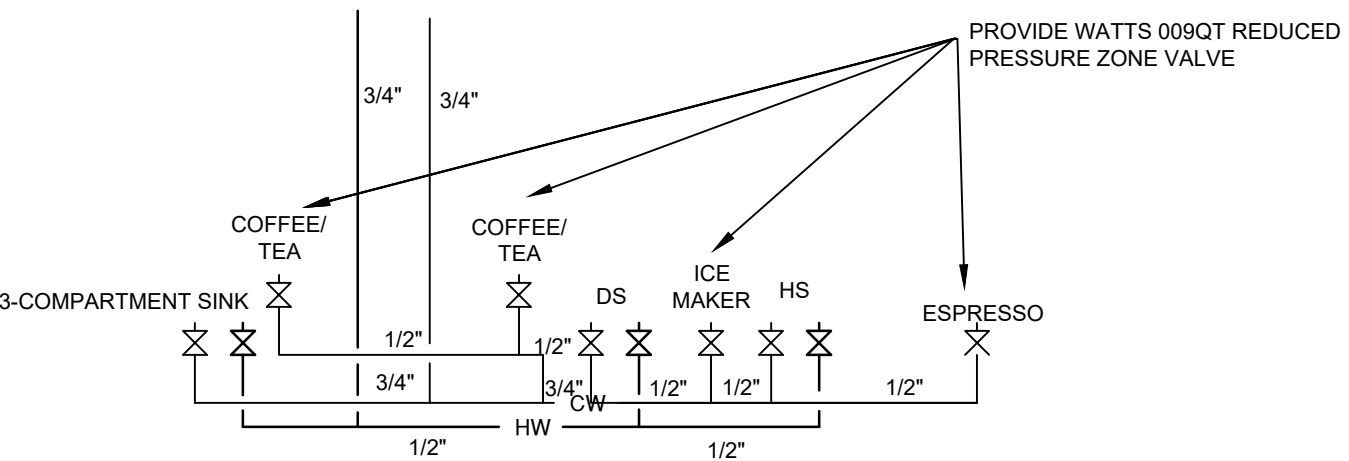
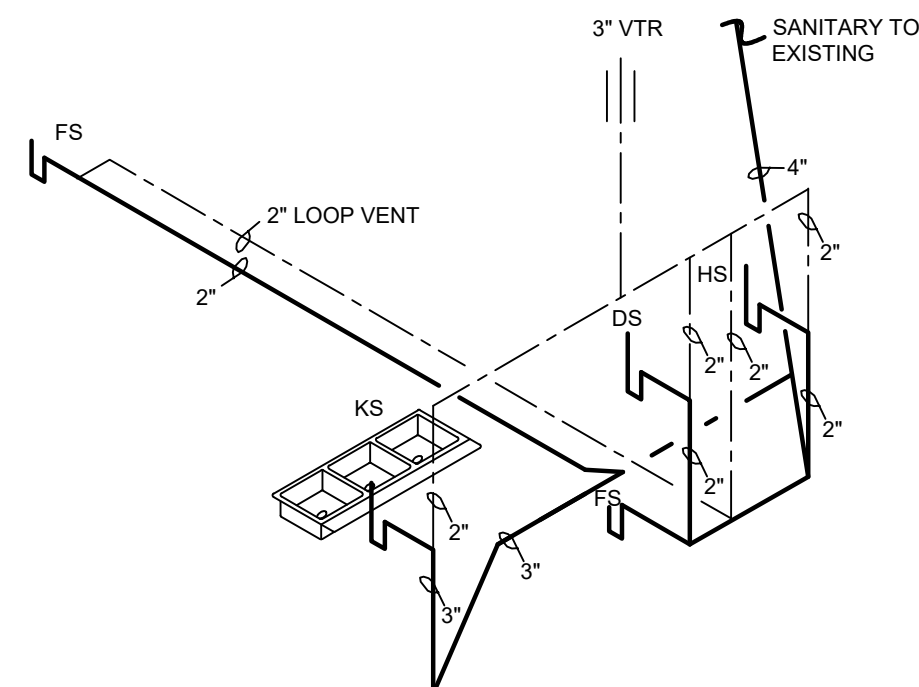


- GENERAL NOTES:**
1. ALL NEW WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE.
 2. TYPE L HARD COPPER WITH 95/90 SOLDERED FITTINGS SHALL BE USED FOR ALL DOMESTIC WATER PIPING. PEX DOMESTIC WATER PIPING MAY BE USED WHERE ALLOWED BY CODE AND WHERE CONTRACTOR PROVIDES EVIDENCE OF TRAINING ON PEX PIPING INSTALLATION.
 3. STANDARD WEIGHT CENTRIFUGALLY CAST, CAST IRON DWV PIPE WITH "NO-HUB" FITTINGS AND JOINTS SHALL BE USED FOR SOIL, WASTE, AND VENT PIPING. STANDARD WEIGHT CENTRIFUGALLY CAST, CAST IRON DWV PIPE WITH "TY-SEAL" FITTINGS AND JOINTS SHALL BE USED FOR SOIL, WASTE, AND VENT PIPING BELOW GRADE. PVC DWV MAY BE USED WHERE ALLOWED BY CODE.
 4. PIPE HANGERS SHALL BE DESIGNED FOR FERROUS, PLASTIC, AND COPPER PIPE WITH HANGER RODS IN DIAMETERS AS REQUIRED BY HANGERS. HANGER SPACING SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE.
 5. DOMESTIC HOT AND COLD WATER LINES SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS PREFORMED INSULATION WITH SELF-SEALING JOINTS. THE COLD WATER PIPING SYSTEM SHALL BE PROVIDED WITH A VAPOR BARRIER. PEX PIPING MAY BE INSTALLED WITHOUT INSULATION.
 6. EXPOSED HANDICAPPED LAVATORY P-TRAPS AND SUPPLY FITTINGS SHALL BE INSULATED WITH PREFORMED FLEXIBLE CELLULAR INSULATION.
 7. ALL PIPING SYSTEMS SHALL BE TESTED BEFORE COVERING AND CONCEALING IN THE PRESENCE OF THE OWNER OR THE OWNER'S REPRESENTATIVE. ALL LEAKS SHALL BE REPAIRED IN A SATISFACTORY MANNER.
 8. TEST DOMESTIC WATER PIPING AT 100 PSI.
 9. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
 10. CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
 11. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNER'S REPRESENTATIVE PRIOR TO ANY INSTALLATION.
 12. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROMED PLATED.
 13. ALL VALVES, UNIONS, ETC. TO BE THE SAME SIZE AS THE 3-23-2022 S OTHERWISE INDICATED ON DRAWINGS.
 14. PROVIDE WATER HAMMER ARRESTOR FOR WATER LINES AS REQUIRED BY CODE FOR APPLIANCES WITH QUICK CLOSING VALVES. THIS SHALL INCLUDE ALL FLUSH VALVE PLUMBING EQUIPMENT.
 15. CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OF INTERFERENCES. CONTRACTOR TO REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
 16. SCHEDULE 40 STEEL PIPE WITH EITHER WELDED OR MALLEABLE SCREWED FITTINGS SHALL BE USED FOR ABOVE GRADE GAS PIPING. NO FLEXIBLE GAS PIPING WILL BE ALLOWED.

PLUMBING LEGEND	
— HW —	DOMESTIC HOT WATER
— CW —	DOMESTIC COLD WATER
— SAN —	WASTE LINE
— V —	VENT LINE
	PLUMBING FIXTURE DESIGNATION DESIGNATED NUMBER

1 KEY PLAN

SCALE: NONE



2 OVERALL PLUMBING

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

3 SANITARY CONNECTION

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

4 CAFE SANITARY/VENT ISOMETRIC

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

5 CAFE SUPPLY PLUMBING RISER

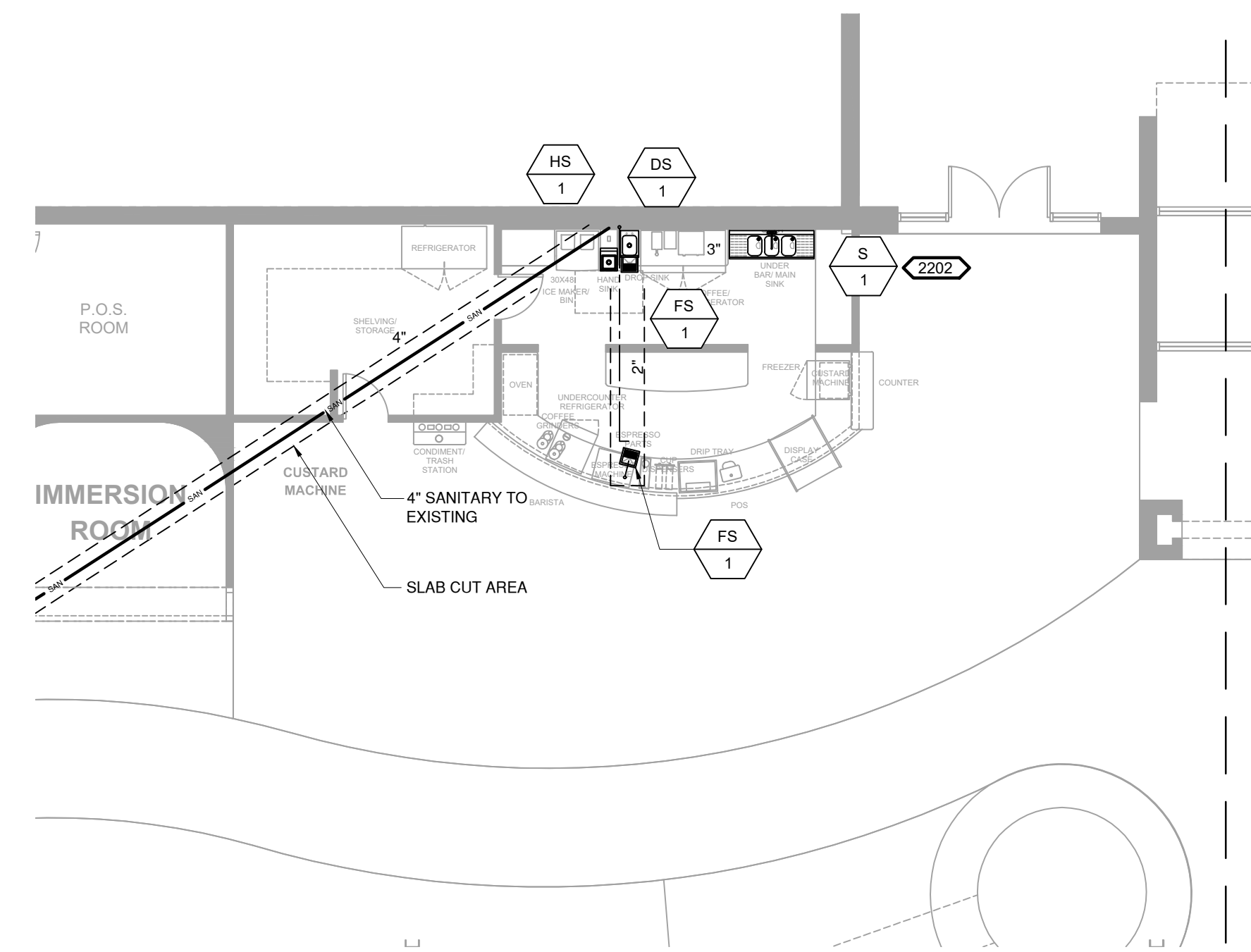
SCALE: 1/8" = 1'-0"

PROJECT PLUMBING FIXTURE SCHEDULE								
ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	WASTE FU	WATER FU	DESCRIPTION
S 1	3-COMPARTMENT SINK	2"	2"	1/2"	1/2"	3	3	ADVANCE TABCO ADV-93-3-54-24R THREE COMPARTMENT SINK WITH RIGHT HAND DRAIN BOARD. EACH COMPARTMENT SHALL HAVE A 16" X 20" BOWL SIZE. CONSTRUCTION SHALL BE WELDED 300 SERIES STAINLESS STEEL WITH ADJUSTABLE BULLET FEET FOR LEVELING. WITH FISHER COMMERCIAL GRADE FAUCET MODEL # FIS-3251, WALL-MOUNT, 8" CENTERS, 8" SWING SPOUT.
DS 1	DROP SINK	2"	2"	1/2"	1/2"	1	1	ADVANCE TABCO 7-PS-60, HAND SINK
S 1	HAND SINK	2"	2"	1/2"	1/2"	1	1	ELKAY DAYTON BAR MODEL D11515 15" X 15" SELF RIMMING STAINLESS STEEL SINK WITH 4" CENTER TO CENTER FAUCET HOLES. FAUCET DELTA 2-HOLE 4" O.C. MODEL 2523HDF CHROME DOUBLE HANDLE TYPE.
FCO 1	FLOOR CLEANOUT	--	--	--	--	--	--	WADE IFCO2-R, CAST IRON W/ ADJUSTABLE HOUSING, ROUND HEAVY CAST IRON VANDAL PROOF TOP. (ALTERNATE JOSAM NO. 56054-15)
FS 1	FLOOR SINK	2"	2"	--	--	3	--	ZURN LIGHT COMMERCIAL 12" X 12" FLOOR SINK WITH 6" SUMP DEPTH. MODEL #FD2375-NH2-F, CAST IRON BODY WITH A WHITE ACID-RESISTING COATING.

PLUMBING CONTRACTOR SHALL SUBMIT PLUMBING FIXTURE INFORMATION PRIOR TO CONSTRUCTION AND ONCE APPROVED INFORMATION SHALL BE DISTRIBUTED TO ALL SUBCONTRACTORS.

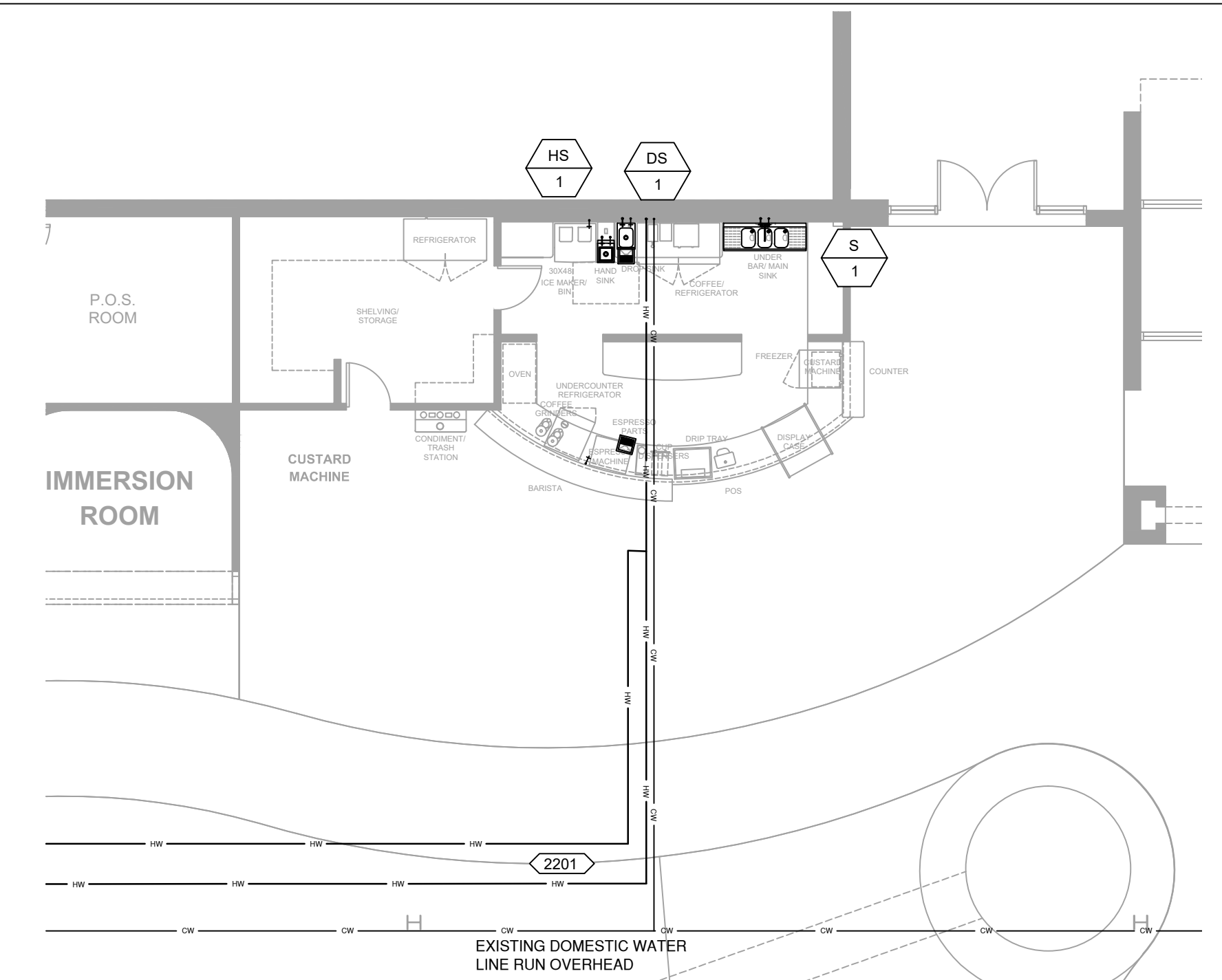
INSTALLATION NOTES: (THIS SHEET ONLY)

- 2200 PROVIDE LOOP VENT FOR ISLAND FLOOR SINK.
- 2201 PROVIDE DOMESTIC HOT WATER RE-CIRCULATION LOOP TO THE CAFE AREA WITH 3/8" LINE AND RE-CIRCULATION PUMP WITH TIMER. TAP IN TO HOT WATER AT THE EXISTING MOP SINK AREA.
- 2202 PROVIDE INDIRECT DRAIN (AIR GAP) AT DRAIN FROM THREE-COMPARTMENT SINK TO FLOOR SINK.



6 CAFE SANITARY/VENT PLUMBING

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



7 CAFE SUPPLY PLUMBING

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

8 PLUMBING FIXTURE SCHEDULE & NOTES

SCALE: NONE

FOR REVIEW ONLY

FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022
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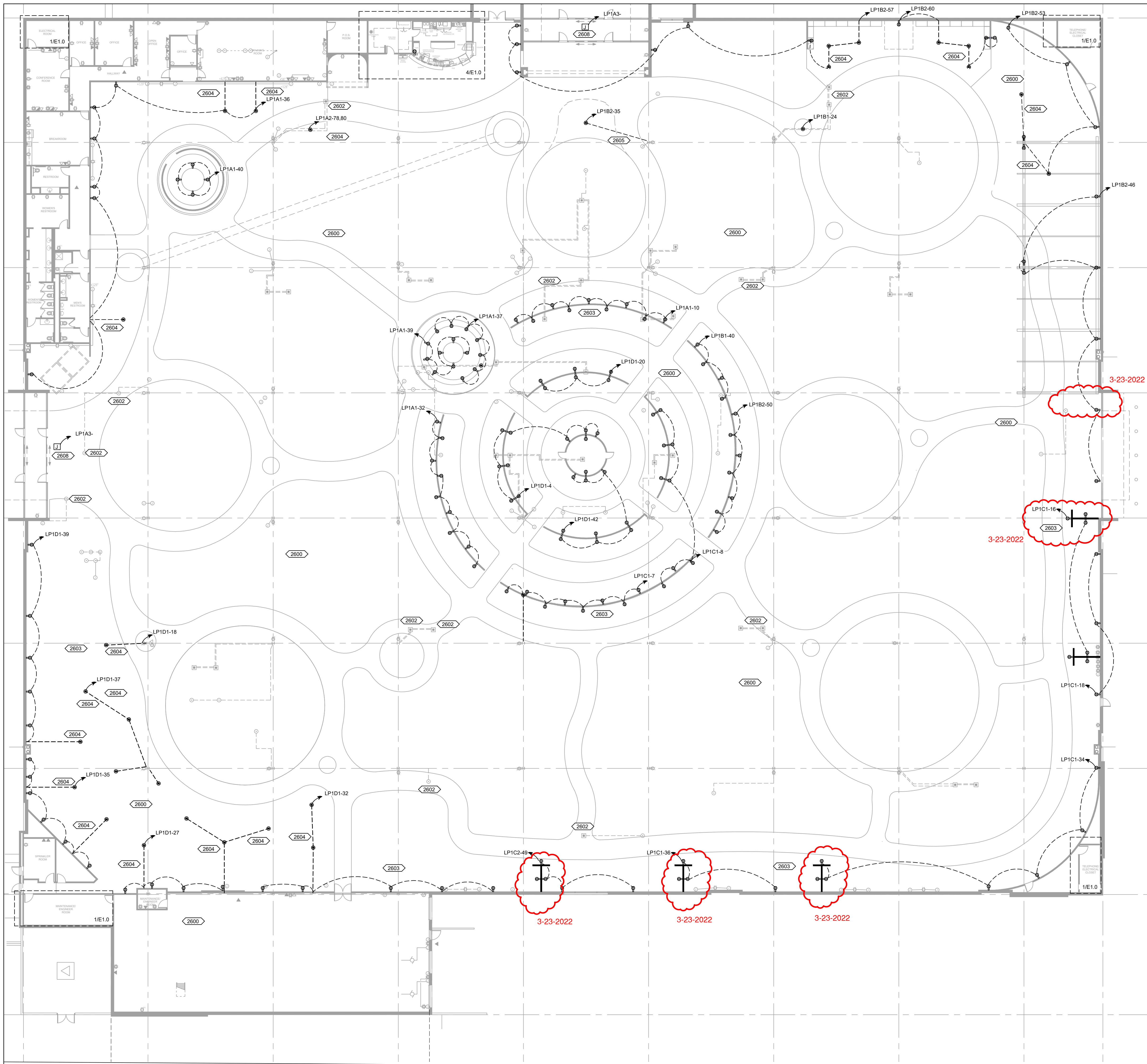
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Plumbing Plan Sanitary Riser Plumbing Schedule

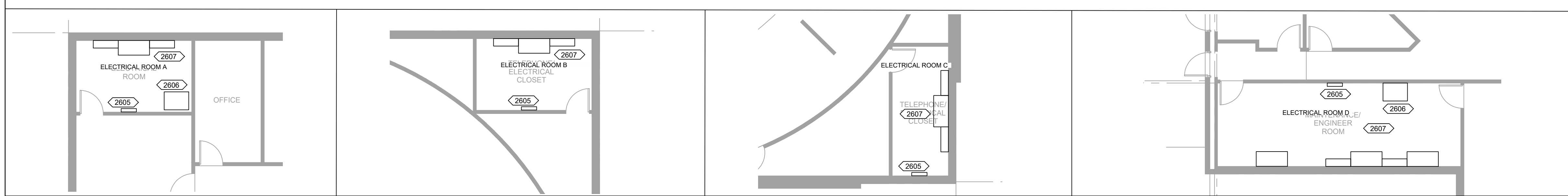
Date	3-23-2022
Drawn by	---
Checked by	SCH

P1.0

Scale AS NOTED



2 POWER PLAN
SCALE: 1/16" = 1'-0"



1 POWER PLAN FOR ELECTRICAL ROOMS
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE (NEC).
2. ALL WIRING SHALL BE IN CONDUIT. METAL-CLAD CABLE MAY BE USED IF ALLOWED BY LOCAL JURISDICTION AND APPROVED BY OWNER.
3. CONDUIT SHALL BE EMT WITH COMPRESSION TYPE OR SCREW FITTINGS.
4. ALL FLEXIBLE METALLIC AND PVC CONDUIT WHERE ALLOWED BY LOCAL CODE IS TO BE PROVIDED WITH SEPARATE GROUND WIRE.
5. ALL POWER WIRES AND CABLES SHALL BE COPPER #12 AWG, UNLESS NOTED OTHERWISE OR REQUIRED BY THE MANUFACTURER OF THE CONNECTED DEVICE. WIRE SHALL BE CODE TYPE THWN/THHN, UNLESS OTHERWISE STATED. POWER WIRE SIZE SHALL BE UP SIZED FOR LONG CIRCUIT RUNS TO ELIMINATE VOLTAGE DROP. #12 AWG USED TO SUPPLY CIRCUITS UP TO 114' FROM PANEL, #10 AWG USED TO SUPPLY CIRCUITS WITH RUNS UP TO 181' FROM PANEL, #8 AWG USED TO SUPPLY CIRCUITS WITH RUNS UP TO 288' FROM PANEL, #6 AWG USED TO SUPPLY CIRCUITS WITH RUNS UP TO 458' FROM PANEL.
6. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS, THROUGHOUT THE ENTIRE CIRCUIT.
7. ALL SWITCHES SHALL BE RATED AT 20 AMPS UNLESS OTHERWISE STATED.
8. ALL OUTLETS SHALL BE RATED 15 AMPS. GROUND-FAULT CIRCUIT INTERRUPTER TYPE OUTLETS SHALL BE INSTALLED IN THOSE LOCATIONS AS REQUIRED BY THE NEC OR AS DESIGNATED ON THE DRAWINGS.
9. PROVIDE ALL OUTLET, LIGHTING FIXTURES, AND J-BOXES THROUGHOUT THE AREA IN ACCESSIBLE LOCATIONS. BOXES SHALL BE OF GALVANIZED KNOCK OUT TYPE WITH SCREW COVERS.
10. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, J-BOXES, WIRING, AND DISCONNECT SWITCHES. NEW THERMOSTAT J-BOXES FOR EACH HVAC UNIT SHALL BE INSTALLED IF THE CURRENT BMS IS REMOVED.
11. SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.
12. CONTRACTOR SHALL VERIFY ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. NOTE CAFE EQUIPMENT.
13. CLASSROOMS, MULTIPURPOSE ROOMS, OPEN OFFICE AREAS, ENCLOSED OFFICES, BREAKROOMS, RESTROOMS, STORAGE ROOMS, AND WAREHOUSE AREAS SHALL BE PROVIDED WITH OCCUPANT SENSOR CONTROLS PER IECC C405.2.1.
14. PROVIDE LIGHTING REDUCTION CONTROLS WITH MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A UNIFORM PATTERN BY NOT LESS THAN 50% BY AN APPROVED METHOD PER IECC CH25.2.2. EXCEPTIONS INCLUDE EMERGENCY AREAS, SECURITY AREAS, STAIRWAYS, EXIT PASSAGES, AND EMERGENCY EGRESS LIGHTING THAT IS NORMALLY OFF.

POWER LEGEND:

- NEW STANDARD DUPLEX RECEPTACLE MOUNTED AT 18" TO CENTER ABOVE FINISHED FLOOR (A.F.F.)
- EXISTING STANDARD DUPLEX RECEPTACLE
- GROUND FAULT INTERRUPTER TYPE RECEPTACLE, LEVITON RGF 15-WG OR EQUIVALENT - FOR USE IN BATHROOMS, RESTROOMS, KITCHEN, AND OTHER AREAS WHERE WATER IS PRESENT.
- WEATHER RESISTANT GROUND FAULT INTERRUPTER TYPE RECEPTACLE WITH WEATHERPROOF BOX, LEVITON LUMV-ARG OR EQUIVALENT - FOR USE OUTDOORS.
- STANDARD DUPLEX RECEPTACLE MOUNTED ON CEILING - FOR USE IN STOREFRONT WINDOWS OR CEILING MOUNTED EQUIPMENT
- NEW STANDARD DUPLEX RECEPTACLE MOUNTED IN FLOOR IN CONCRETE FLOOR BOX
- EXISTING STANDARD DUPLEX RECEPTACLE MOUNTED IN FLOOR IN CONCRETE FLOOR BOX
- POWER DROP WITH A MAXIMUM OF THREE RECEPTACLES UNLESS NOTED OTHERWISE.
- NEW ELECTRICAL PANEL
- EXISTING DATA OUTLET

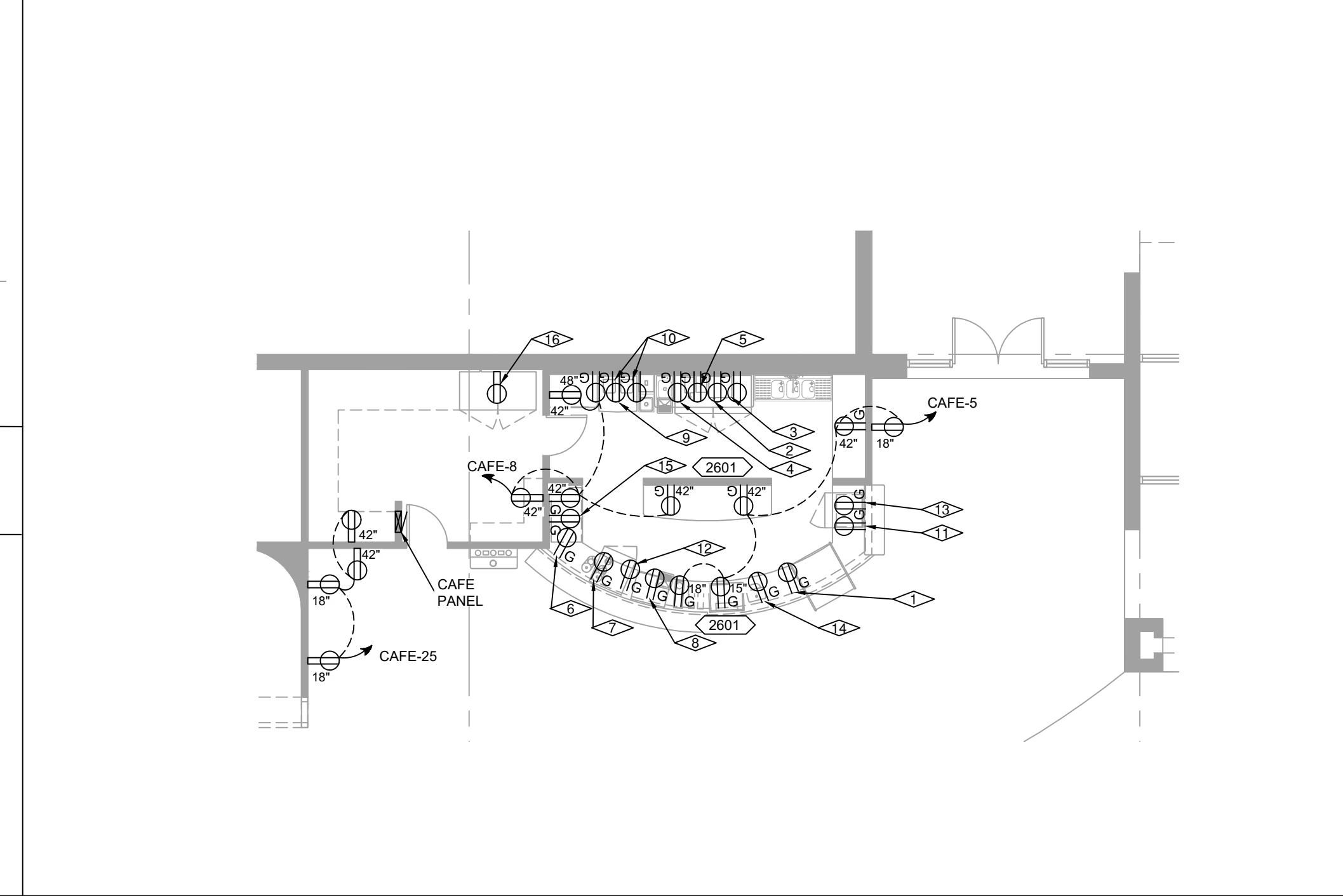
INSTALLATION NOTES: (THIS SHEET ONLY)

- 2600 SEE ARCHITECTURAL OR STORE DESIGN DRAWINGS FOR MOST CURRENT ELECTRICAL LAYOUT PRIOR TO BEGINNING WORK.
- 2601 ALL RECEPTACLES IN THE NEW FOOD SERVICE AREA SHALL BE GFCI TYPE OR CONNECTED TO A GFCI BREAKER IN THE NEW ELECTRICAL DISTRIBUTION PANEL. THE INSTALLATION OF GFCI RECEPTACLES OR BREAKERS SHALL BE IN COMPLIANCE WITH NEC ARTICLE 210.8(B).
- 2602 EXISTING FLOOR RECEPTACLES TO BE REMOVED FOR NEW FLOORING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2603 GENERAL 30 AMP RECEPTACLE CIRCUITS SHALL BE LIMITED TO NO MORE THAN 10 DUPLEX RECEPTACLES.
- 2604 CUT OUT AREA TO RUN WIRES IN SLAB FOR DISPLAY WALLS.
- 2605 LEVITON TLP G3251-130 PANELS WITH 15 AMP BREAKERS THAT SERVE THE TRACK LIGHTING AND MOVABLE WALL RECEPTACLES.
- 2606 EXISTING STEP-DOWN ELECTRICAL TRANSFORMER MOVED FROM ELECTRICAL ROOM D TO FEED NEW CAFE PANEL.
- 2607 EXISTING ELECTRICAL PANELS. SEE PANEL SCHEDULES ON SHEET E3.0 AND EXISTING ELECTRICAL RISER ON SHEET E4.0 FOR REFERENCE.
- 2608 PROVIDE JUNCTION BOX AND POWER FOR NEW AUTOMATIC SLIDING ENTRY DOORS.

ELECTRICAL EQUIPMENT SCHEDULE:					
ITEM NO.	RECEPT. HEIGHT	DESCRIPTION	SERVICE TO EQUIPMENT		REMARKS
			PANEL & CIRCUIT NUMBER	LOAD (VOLT / AMP)	
1	15"	REFRIGERATED DISPLAY CASE	CAFE-1	120 V / 24 A	CONSULT EQUIPMENT NAMEPLATE
2	45"	WATER TOWER	CAFE-16	120 V / 12.5 A	CONSULT EQUIPMENT NAMEPLATE
3	45"	COFFEE BREWER	CAFE-10,12	220 V / 25.8 A	CONSULT EQUIPMENT NAMEPLATE
4	45"	COFFEE GRINDER	CAFE-14	120 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
5	18"	UC REFRIGERATOR	CAFE-11	115 V / 8.5 A	CONSULT EQUIPMENT NAMEPLATE
6	18"	ESPRESSO GRINDER	CAFE-15,17	220 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
7	18"	ESPRESSO GRINDER	CAFE-13	120 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
8	18"	ESPRESSO MACHINE	CAFE-7,9	220 V / 30 A	CONSULT EQUIPMENT NAMEPLATE
9	18"	ICE MAKER	CAFE-24	115 V / 10.7 A	CONSULT EQUIPMENT NAMEPLATE
10	48"	BLENDER (2)	CAFE-20 & CAFE-22	115 V / 13 A	CONSULT EQUIPMENT NAMEPLATE
11	18"	UC FREEZER	CAFE-12	115 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
12	18"	UC REFRIGERATOR	CAFE-11	120 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
13	42"	CUSTARD MACHINE	CAFE-4,6	230 V / 60 A	CONSULT EQUIPMENT NAMEPLATE
14	15"	POS	CAFE-3	120 V / 5 A	PROVIDE ISOLATED GROUND
15	18"	OVEN (11 kW)	CAFE-19,21	208 V / 70 A	CONSULT EQUIPMENT NAMEPLATE
16	18"	REACH-IN REFRIGERATOR	CAFE-23	120 V / 12 A	CONSULT EQUIPMENT NAMEPLATE

VERIFY EQUIPMENT WITH OWNER OR OWNER REPRESENTATIVE. SEE ARCHITECT AND DESIGNER DRAWING FOR ADDITIONAL INSTALLATION INFORMATION AND COORDINATION WITH CABINETRY. CONSULT EQUIPMENT MANUFACTURE FOR POWER CONNECTION INFORMATION.

3 ELECTRICAL EQUIPMENT SCHEDULE
SCALE: NONE



4 POWER PLAN FOR CAFE
SCALE: 1/8" = 1'-0"

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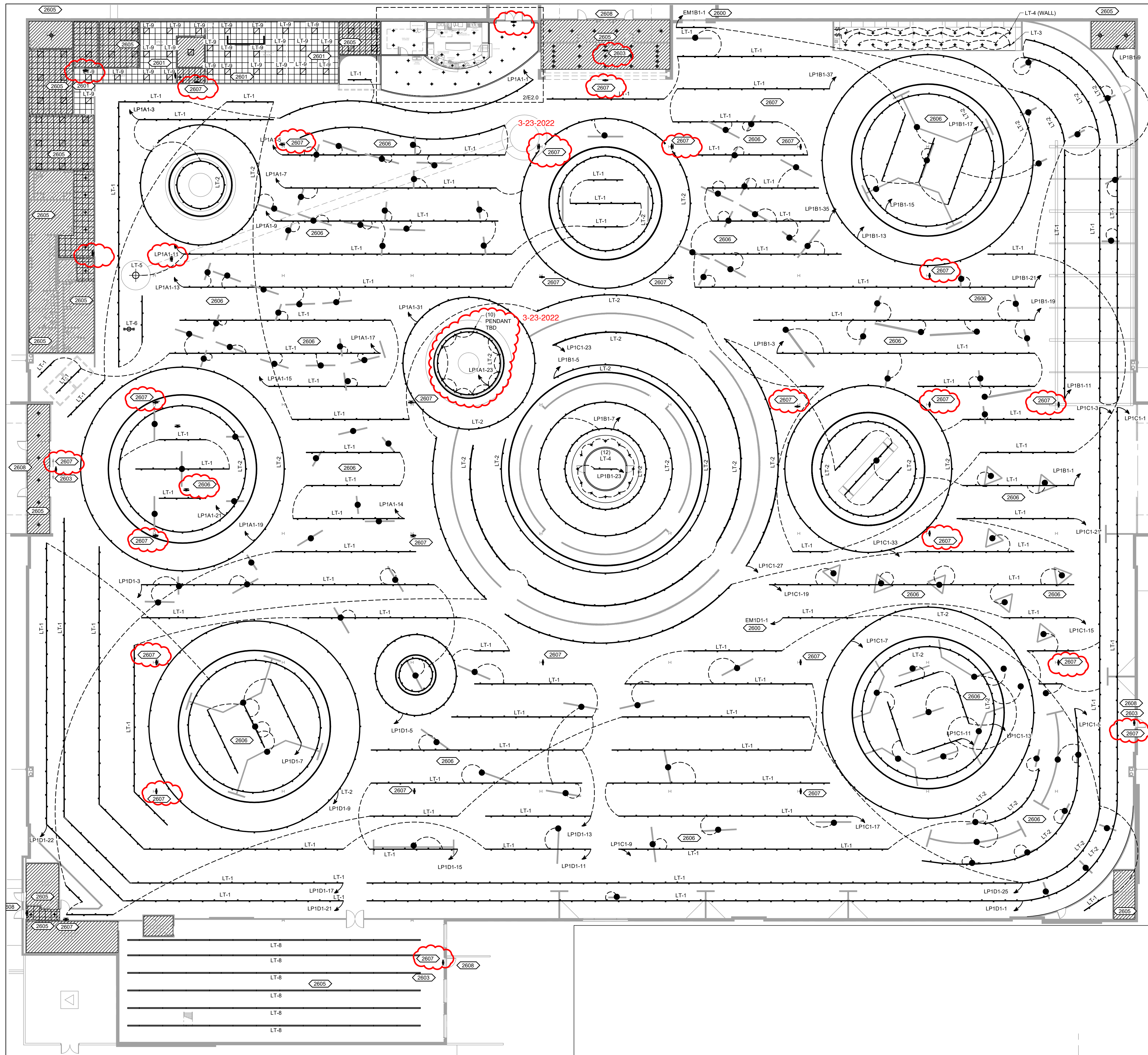
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FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

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F1.0	Fire Sprinkler Scope of Work

Power Plan, Riser, CAFE Power Plan CAFE Equipment Schedule	
Date	3-23-2022
Drawn by	SAE
Checked by	SCH
E1.0	
Scale	AS NOTED



TRACK LIGHT INSTALLATION NOTES:

HANGING METHOD FOR TRACK LIGHTING IS TO BE TESTED ON A 90° SECTION AND APPROVED BY OWNER OR OWNER REPRESENTATIVE PRIOR TO FULL INSTALLATION BEING COMPLETED. METHODS FOR TESTING CAN BE:
1. ALL-THREAD ROD METHOD
2. CABLE METHOD
3. ANOTHER METHOD PROPOSED BY ELECTRICIAN

CABLE METHOD:

- CHALK LINE ON THE FLOOR WHERE TRACK GOES
- MARK SPOTS ON FLOOR ALONG CHALK LINE FOR CABLE LOCATION TO ALIGN WITH HOLES IN TRACK.
- USE LASER TO SPOT MARK ON DECK FOR SAMMY
- USING PRE-ASSEMBLED AIRCRAFT CABLE WITH STABILIZER BAR, SCREW CABLE INTO THE DECK. GET ENTIRE RUN HUNG IN ROUGH HEIGHT LOCATION.
- USING SMALL MAGNETIC DISTANCE LASER-ATTACH LASER TO TRACK TO MEASURE HEIGHT OFF OF THE FLOOR AND ADJUST HEIGHT ACCORDINGLY.

*WHERE 12" TRACKS ARE USED, ATTACH CABLE EVERY 6".

POWER SUPPLIED BY TRACK LIGHTS:

ENGINEER MUST BE CONSULTED FOR CHANGES TO INTERIOR WALLS AND RECEPTACLES WHERE RECEPTACLES ARE POWERED BY DROPS FROM TRACK LIGHTING.

EMERGENCY EXIT LIGHTING LEGEND:

- EXISTING ILLUMINATED EXIT SIGN
- NEW ILLUMINATED EXIT SIGN. SEE FIXTURE Y IN LIGHTING SCHEDULE.

INSTALLATION NOTES: (THIS SHEET ONLY)

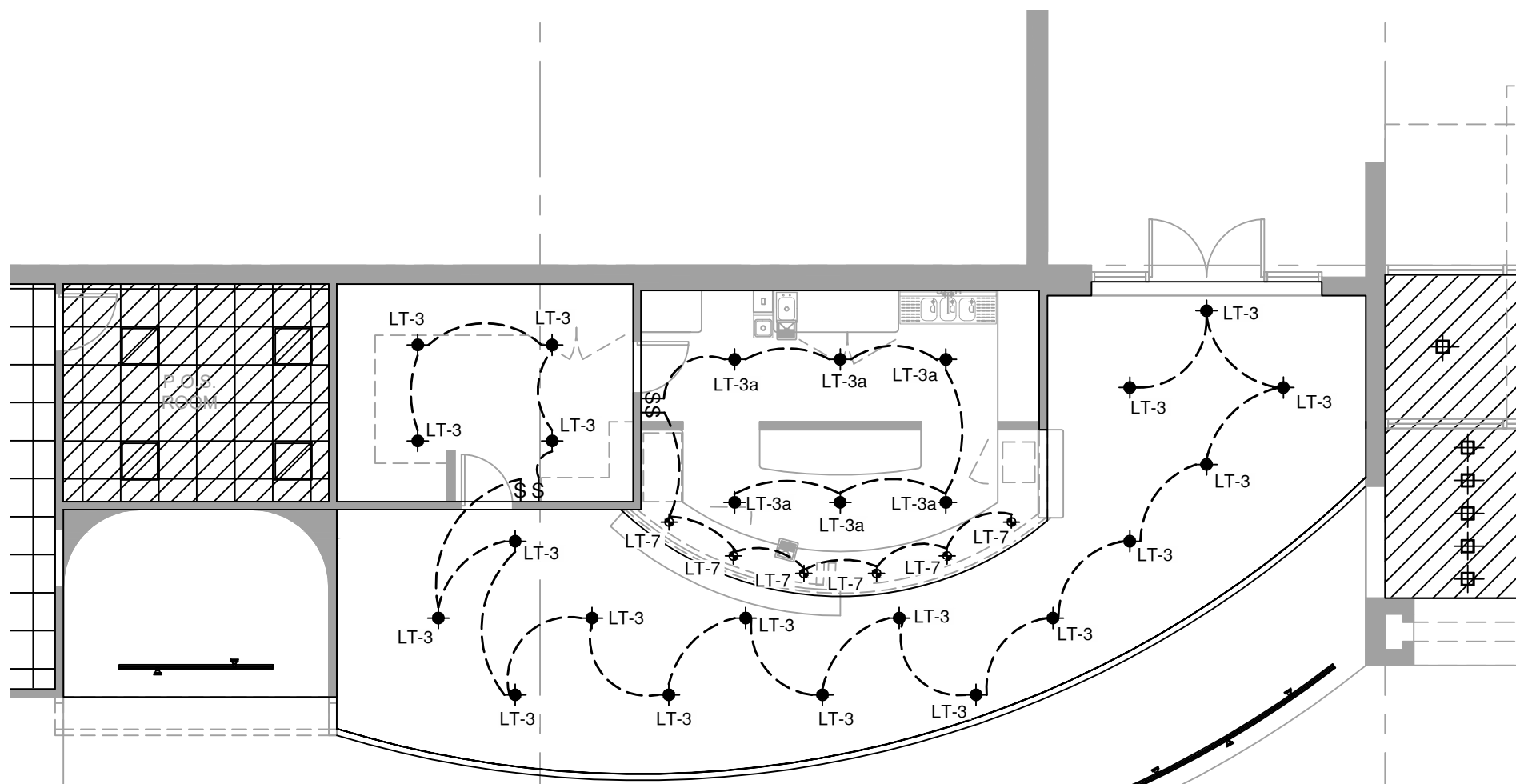
- CIRCUIT TRACK RUN TO EMERGENCY POWER LIGHT CIRCUIT. (PANELS EM1B1 AND EM1D1)
- NEW 277V LIGHTING INSTALLED TO MATCH EXISTING 2X2 TROFFER, PANEL HP-1A1.
- REUSE EXISTING EXIT SIGNS OR REPLACE WITH LINE UNITS.
- SEE E3.0-2 FOR TRACK LIGHT CONTROLS.
- EXISTING 277V LIGHTING TO REMAIN IN THIS ROOM.
- NEW MOVABLE DISPLAY WALL RECEPTACLES SHALL BE POWERED BY OVERHEAD POWER DROPS FROM THE TRACK LIGHTING SYSTEM. CONSULT OWNER OR OWNER REPRESENTATIVE FOR FINAL CIRCUIT ROUTING TO POWER TO MOVABLE DISPLAY WALLS.
- EXISTING EXIT SIGNS TO BE REUSED OR REPLACED WITH COLUMNED OR WALL MOUNTED FIXTURES FOR PROPER EGRESS DIRECTIONS THROUGH THE PATHWAYS IN THE STORE.
- CONTRACTOR SHALL VERIFY THAT THE EMERGENCY GENERATOR POWER PANELS (EM1B1, EM1B2, AND EM1D1) SHALL POWER EGRESS LIGHTING ON THE EXTERIOR SIDE OF THE EXIT LANDINGS. IF NOT MOVE THE LIGHTING TO A NEARBY CIRCUIT FROM THESE PANELS FOR THE EMERGENCY POWER GENERATOR.

LIGHTING LEGEND:

- STANDARD AC TOGGLE SWITCH MOUNTED AT 48" TO CENTER ABOVE FINISHED FLOOR (A.F.F.), LEVITON SKU 01221-380-002 OR EQUIVALENT.
- 3-WAY AC TOGGLE SWITCH MOUNTED AT 48" TO CENTER ABOVE FINISHED FLOOR (A.F.F.), LEVITON SKU 01223-380-002 OR EQUIVALENT.
- 3-WAY OCCUPANCY SENSOR SWITCH MOUNTED AT 48" TO CENTER ABOVE FINISHED FLOOR (A.F.F.), LEVITON IPS15-LZ OR EQUIVALENT.
- 3-WAY CAPABLE OCCUPANCY DIMMER COMBINATION MOUNTED AT 48" TO CENTER ABOVE FINISHED FLOOR (A.F.F.), LUTRON MSL-OP153M OR EQUIVALENT.
- POWER DROP TO MOVABLE WALLS FROM RECEPTACLE ADAPTER ON LIGHTING TRACK.

INTERIOR LIGHTING POWER DENSITY						
AREA DESCRIPTION	FIXTURE TYPE	FIXTURE LOAD (W)	QUANTITY OF FIXTURES	ACTUAL LOAD (W)	ALLOWED DENSITY (W / S.F.)	ALLOWED LOAD (W)
SALES FLOOR	LT-1	16	2536	40576	0.95	85850
	LT-2	16	672	10752		
	LT-3	50	4	200		
	LT-4	50	1	50		
OFFICE STORAGE	LT-7	19	8	152	1.0	1600
CAFÉ	LT-5	28	15	420	0.7	1375
OFFICES	LT-6	6	7	42		
ELECTRICAL ROOM	EXISTING			0	1.0	500
RESTROOMS/BREAKROOM	EXISTING			0	1.0	275
WAREHOUSE	EXISTING	19	53	1007	0.7	1825
Total				53199	1.0	4425
						90259

3 LIGHTING POWER DENSITY, NOTES
SCALE: 1/8" = 1'-0"



1 LIGHTING PLAN AND WALL DROPS
SCALE: 1/16" = 1'-0"

2 CAFE LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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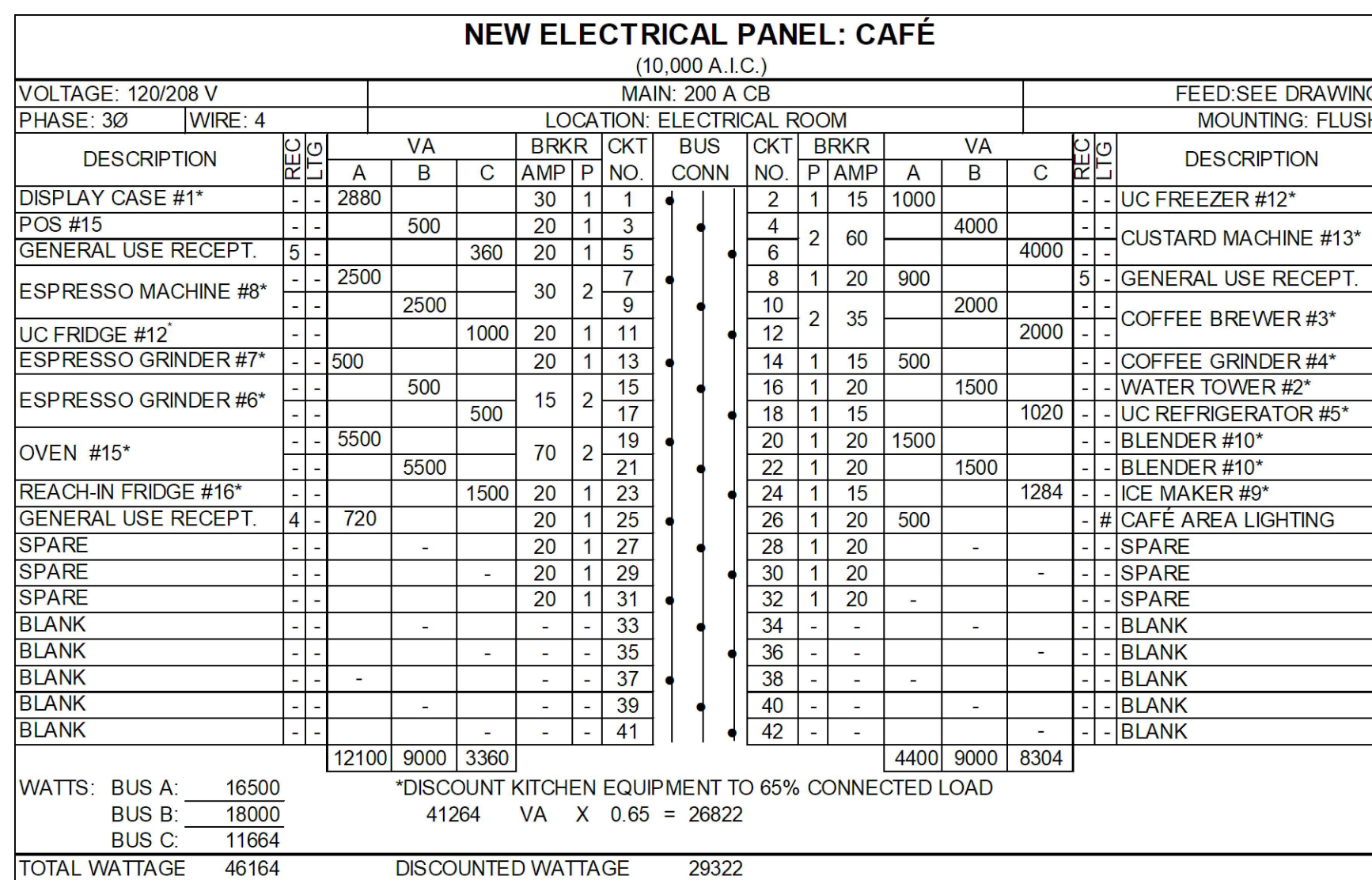
Lighting Plans	
Date	3-23-2022
Drawn by	SAE
Checked by	SCH
E2.0	
Scale	AS NOTED

[illegible]

ELECTRICAL PANEL : LP1B1																			
(10,000 A.C.)																			
MAIN 150A																			
VOLTAGE 120/208 V PHASE 3Ø WIRE-4						LOCATION: ELECTRICAL ROOM B									FEED: EXISTING MOUNTING: EXISTING				
DESCRIPTION		REQ.	A	B	C	VA	BRKR	TXT	NUS	DCT	BRKR	P	F	JAMP	A	B	C	VA	DESCRPTION
-	TRACK LIGHTING QUAD B	6	1410				20	1	1					2	1	20	900		- EXISTING
-	TRACK LIGHTING QUAD B	12		1680			20	1	7					4	1	20		720	- EXISTING
-	TRACK LIGHTING QUAD B	6			1478		20	1	3					2	1	20		900	- EXISTING
-	TRACK LIGHTING QUAD B	-	-	-	-	1793								8	1	20		720	- EXISTING
-	TRACK LIGHTING QUAD B	4			1590		20	1	9					10	1	20		900	- EXISTING
-	TRACK LIGHTING QUAD B	6				1575		20	1	11				10	1	20		720	- EXISTING
-	TRACK LIGHTING QUAD B	-	-	-	-	-	1703							14	1	20		900	- EXISTING
-	TRACK LIGHTING QUAD B	12		1785			20	1	15					16	1	20		720	- EXISTING
-	TRACK LIGHTING QUAD B	10			1680		1770		20	1	17			18	1	20		900	- EXISTING
-	TRACK LIGHTING QUAD B	6				1680		20	1	19				20	1	20		900	- EXISTING
-	TRACK LIGHTING QUAD B	8			1725		20	1	21					22	1	20		945	- EXISTING
-	EXISTING	-	-	-	-	360		20	1	23				24	1	20		800	- EXISTING
-	EXISTING	-	-	-	800		20	1	25					26	1	20		800	- EXISTING
-	EXISTING	-	-	-	800		20	1	27					28	1	20		800	- EXISTING
-	EXISTING	-	-	-	800		20	1	29					30	1	20		800	- EXISTING
-	EXISTING	-	-	-	800		20	1	31					32	1	20		900	- EXISTING
-	EXISTING	-	-	-	720		20	1	33					34	1	20		900	- EXISTING
-	TRACK LIGHTING QUAD B	14			1425		20	1	35					36	1	20		1440	- EXISTING
-	TRACK LIGHTING QUAD B	6	1305				20	1	37					38	1	20		1440	- EXISTING
-	EXISTING	-	-	-	800		20	1	39					40	1	20		420	- RECEPTACLES QUAD B
-	EXISTING	-	-	-	800		20	1	41					42	1	20		600	- EXISTING
-		-	-	-	9491	9100	8208										6560	5405	6180
WATTS BUS A:		16951																	
BUS B:		14595																	
BUS C:		14388																	
TOTAL WATTAGE:		44944																	

[illegible][illegible]

ELECTRICAL PANEL: EM1B1																																																																																																																																																																																																																																																																																																																																																																																						
(14,000 A.I.C.)																																																																																																																																																																																																																																																																																																																																																																																						
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LTG. QUAD A/B	-	1800	-	20	1	1	2	1	20	1	2060	-	-	EXISTING	EMERG. EXISTING	-	2500	-	20	1	3	4	1	20	3	2040	-	-	EXISTING	EXISTING	-	-	500	20	1	5	6	1	20	5	-	-	-	SPARE	SPARE	-	-	-	20	1	7	6	1	20	7	-	-	-	SPARE	SPARE	-	-	-	20	1	9	10	1	20	9	-	-	-	SPARE	SPARE	-	-	-	20	1	11	12	1	20	11	-	-	-	SPARE	SPACE	-	-	-	20	1	13	14	1	20	13	-	-	-	SPACE	SPACE	-	-	-	20	1	15	16	1	20	15	-	-	-	SPACE	SPACE	-	-	-	20	1	17	18	1	20	17	-	-	-	SPACE	SPACE	-	-	-	20	1	19	20	1	20	19	-	-	-	SPACE	SPACE	-	-	-	20	1	21	22	1	20	21	-	-	-	SPACE	SPACE	-	-	-	20	1	23	24	1	20	23	-	-	-	SPACE	SPACE	-	-	-	20	1	25	26	1	20	25	-	-	-	SPACE	SPACE	-	-	-	20	1	27	28	1	20	27	-	-	-	SPACE	SPACE	-	-	-	20	1	29	30	1	20	29	-	-	-	SPACE	SPACE	-	-	-	20	1	31	32	1	20	31	-	-	-	SPACE	SPACE	-	-	-	20	1	33	34	1	20	33	-	-	-	SPACE	SPACE	-	-	-	20	1	35	36	1	20	35	-	-	-	SPACE	SPACE	-	-	-	20	1	37	38	1	20	37	-	-	-	SPACE	SPACE	-	-	-	20	1	39	40	1	20	39	-	-	-	SPACE	SPACE	-	-	-	20	1	41	42	1	20	41	-	-	-	SPACE		1800	2500	500								2060	2040	0	
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WATTS: BUS A: 3880 BUS B: 4540 BUS C: 500 TOTAL WATTAGE 8900																																																																																																																																																																																																																																																																																																																																																																																						

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Sheet Index	
Mechanical Series	
M1.0	Mechanical Notes, Schedules
M2.0	Mechanical Plan, Cafe Mechanical Plan

Electrical Series

- E1.0 Power Plan, Electrical Riser
- E2.0 Lighting Plan, Light Fixture Schedule, LPD
- E3.0 Power Panelboard Layouts, Track Light Switching Riser
- E4.0 Existing Electrical Riser

Fire Series

- F1.0 Fire Sprinkler Scope of Work

2 TRACK LIGHTING RISER

FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO



HUGHES CONSULTING ENGINEERING, PA

HVAC • Electrical • Plumbing • Energy Studies

Steven Hughes, PE

920 Massachusetts St., Suite 2
Lawrence, KS 66044
ph: (785) 842-2292
fax: (785) 842-2492
steven@hce-pa.com

FOR REVIEW ONLY

NEW ELECTRICAL PANEL: CAFÉ																						
(10,000 A.I.C.)																						
VOLTAGE: 120/208V		MAIN: 200 A CB														FEED SEE DRAWING						
PHASE: 30		WIRE: 4		LOCATION: ELECTRICAL ROOM														MOUNTING: FLUSH				
DESCRIPTION		Ø	W	A	B	C	VA	AMP	F	NO.	Ø	W	A	B	C	VA	AMP	F	NO.	DESCRIPTION		
DISPLAY CASE #1*	--			2880				30	1	1			2	1	15	1000				--	UC FREEZER #12*	
POS #13	--			500				20	1	3			4	2	60	4000				--	CUSTARD MACHINE #13*	
GENERAL USE RECEPT.	5							30	2	5			8	1	20	900			4000	5	GENERAL USE RECEPT.	
ESPRESSO MACHINE #8*	--			2500				30	2	7			2	2	35					2000	--	COFFEE BREWER #3*
UC FRIDGE #12	--						1000	20	1	11			14	1	15	500				2000	--	COFFEE GRINDER #4*
ESPRESSO GRINDER #7*	--			500				15	2	15			16	1	20						--	WATER TOWER #2*
ESPRESSO GRINDER #6*	--						500	15	2	15			18	1	15				1020	--	UC REFRIGERATOR #5*	
OVEN #15*	--			5500				70	21	19			22	2	10	1500					--	BLENDER #10*
REACH-IN FRIDGE #16*	--						5500	1500	20	1	23		24	1	15				1284	--	BLENDER #10*	
GENERAL USE RECEPT.	4			720				20	1	29			26	1	20						--	ICE MAKER #9*
SPARE	--							20	1	27			30	1	20						--	CAFÉ AREA LIGHTING
SPARE	--							20	1	31			32	1	20						--	SPARE
BLANK	--									33			36								--	BLANK
BLANK	--									35			38								--	BLANK
BLANK	--									37			38								--	BLANK
BLANK	--									39			40								--	BLANK
BLANK	--									41			42								--	BLANK
				12100			9000	3360								4400		9000	8304			
WATTS: BUS A: 16500		*DISCOUNT KITCHEN EQUIPMENT TO 65% CONNECTED LOAD																				
BUS B: 18000		41264 VA X 0.65 = 26922																				
BUS C: 11664																						
TOTAL WATTAGE 46164		DISCOUNTED WATTAGE 26922																				

Sheet Index

<p>Mechanical Series</p> <p>M1.0 Mechanical Notes, Schedules</p> <p>M2.0 Mechanical Plan, Cafe</p> <p>Mechanical Plan</p>
--

Plumbing Series
P1.0 Plumbing Plan, Sanitary Riser,
Plumbing Fixture Schedule,
Supply Riser

Electrical Series

- E1.0 Power Plan, Electrical Riser
- E2.0 Lighting Plan, Light Fixture Schedule, LPD
- E3.0 Power Panelboard Layouts, Track Light Switching Riser
- E4.0 Existing Electrical Riser

Fire Series
F1.0 Fire Sprinkler Scope of Work

Panelboard Layouts
Lighting Fixture Schedule
Lighting Riser

Date	3-23-2022
Drawn by	---
Checked by	SCH

E3.0

Scale	AS NOTED
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FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022
3	PLAN REV. COMMENTS	3-23-2022

Sheet Index

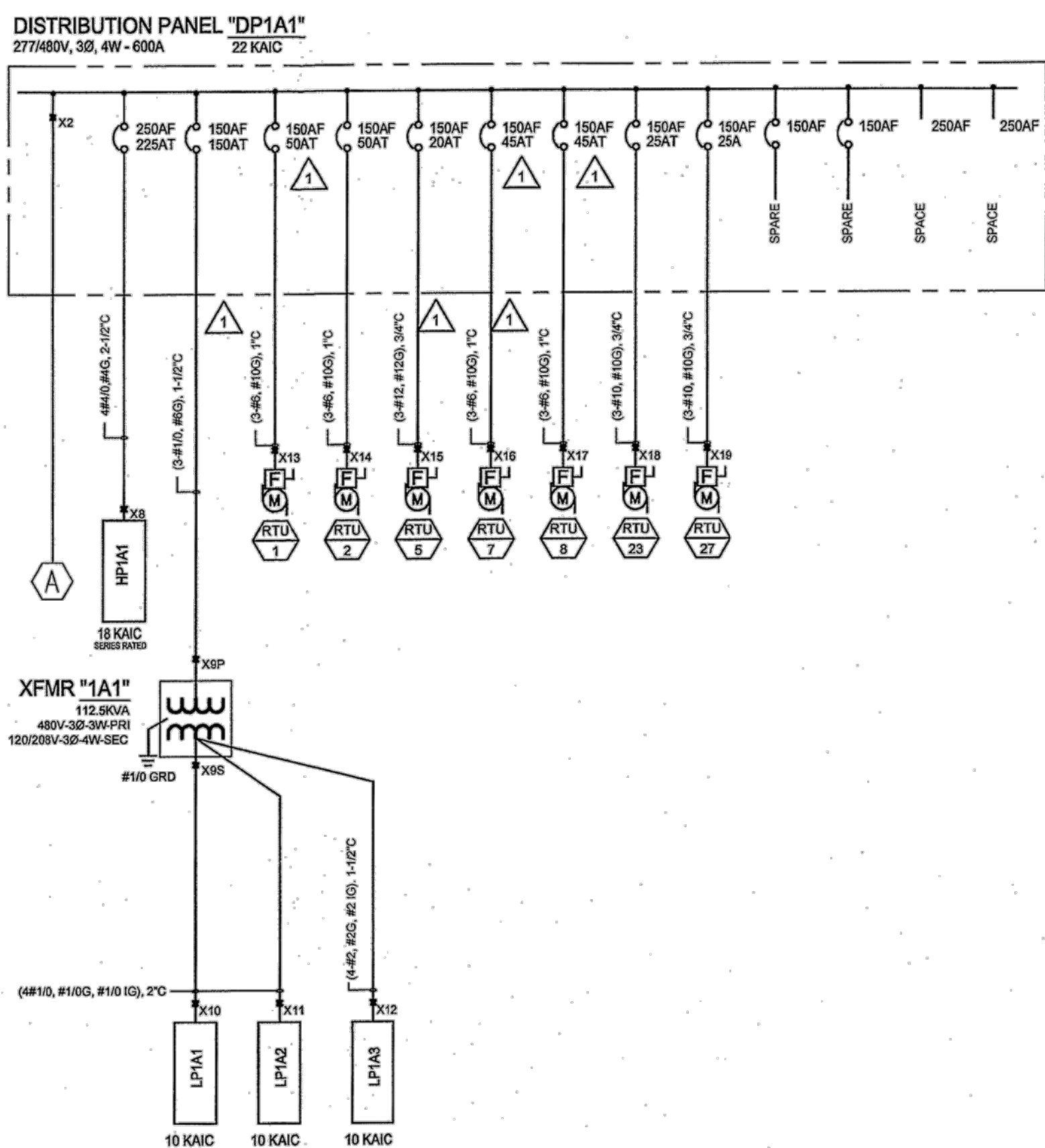
- Mechanical Series**
M1.0 Mechanical Notes, Schedules
M2.0 Mechanical Plan, Cafe
Mechanical Plan
- Plumbing Series**
P1.0 Plumbing Plan, Sanitary Riser,
Plumbing Fixture Schedule,
Supply Riser
- Electrical Series**
E1.0 Power Plan, Electrical Riser
E2.0 Lighting Plan, Light Fixture
Schedule, LPD
E3.0 Power Panelboard Layouts,
Track Light Switching Riser
E4.0 Existing Electrical Riser
- Fire Series**
F1.0 Fire Sprinkler Scope of Work

Panelboard Layouts
Lighting Fixture Schedule
Lighting Riser

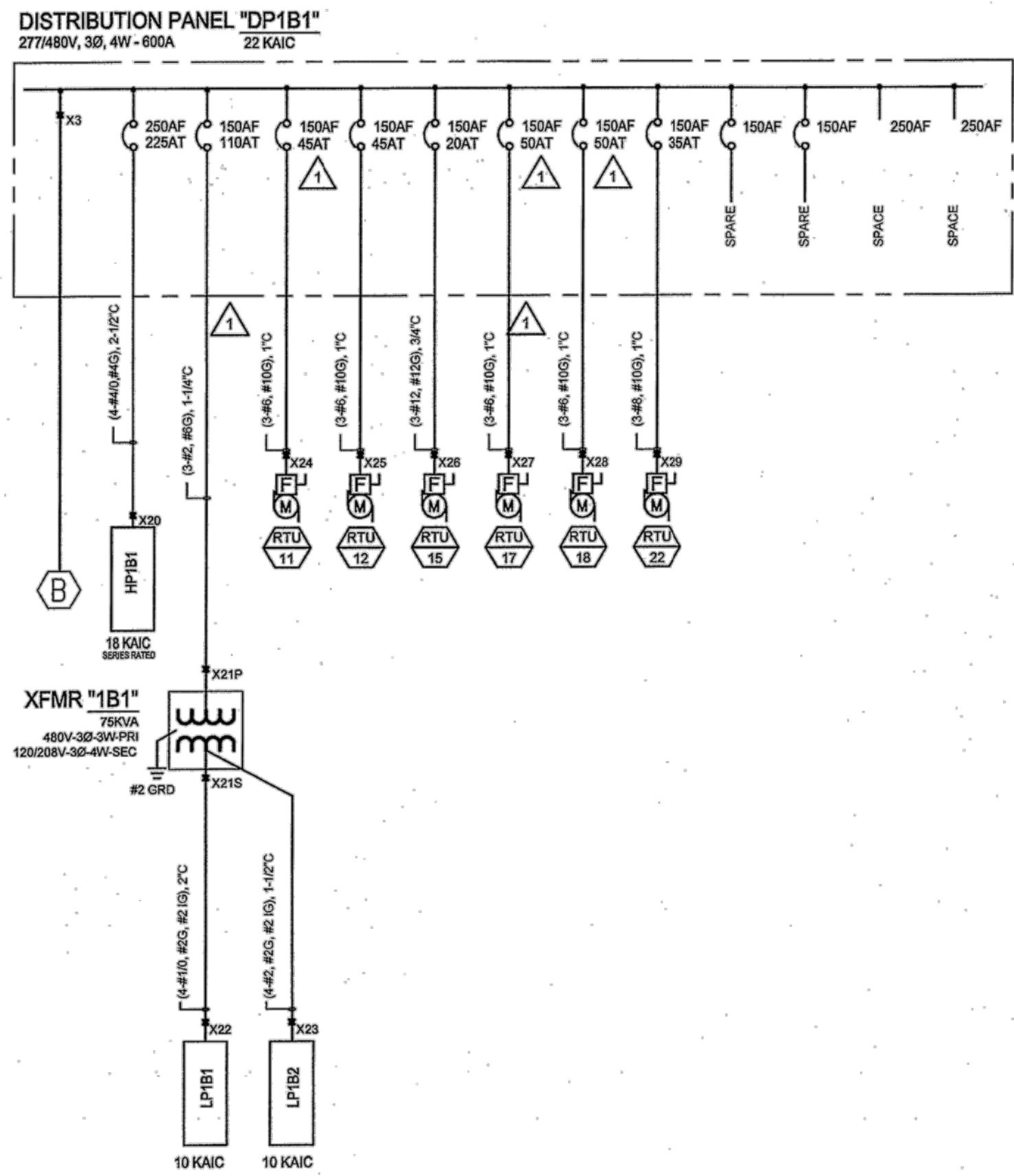
Date	3-23-2022
Drawn by	---
Checked by	SCH

E4.0

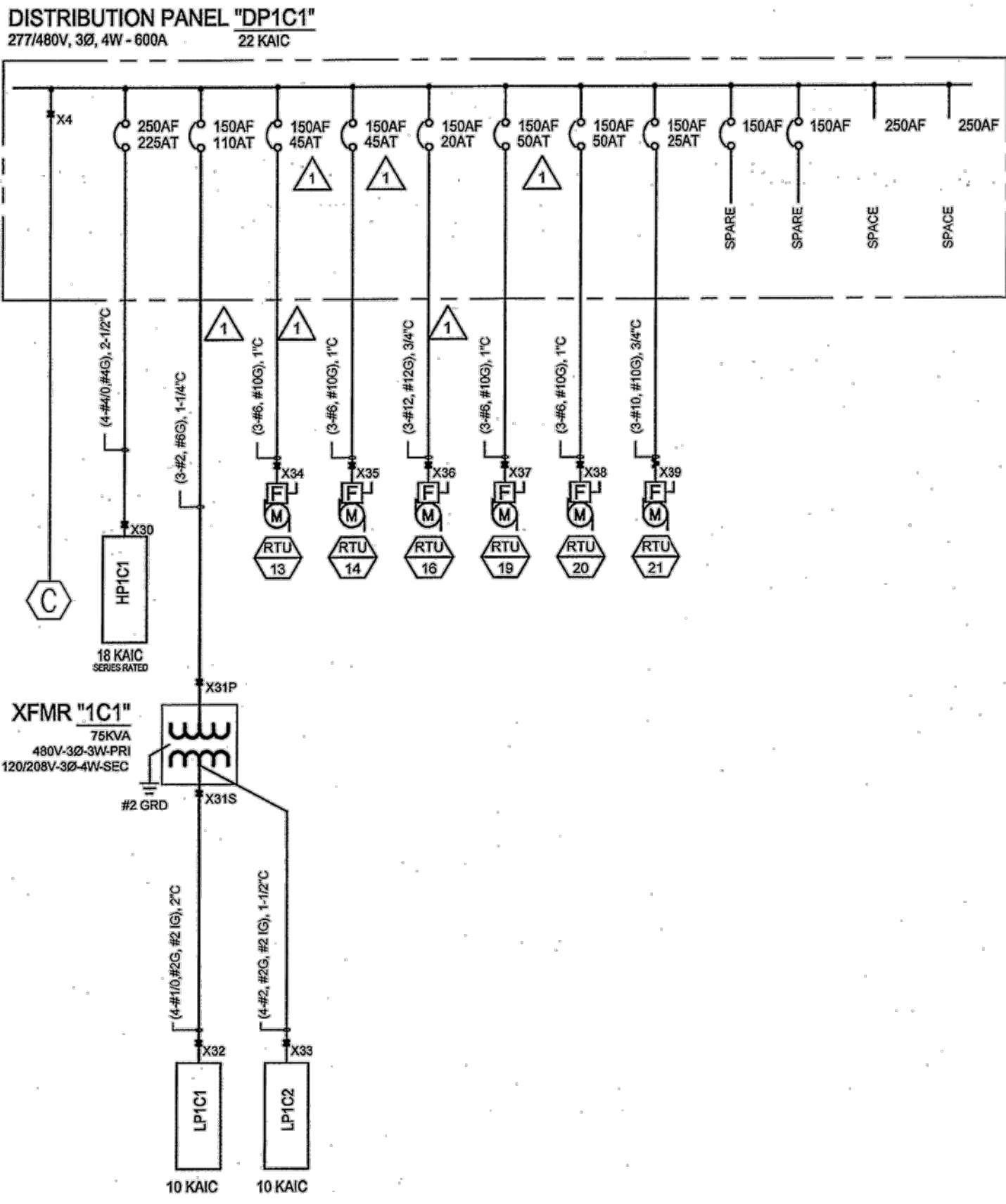
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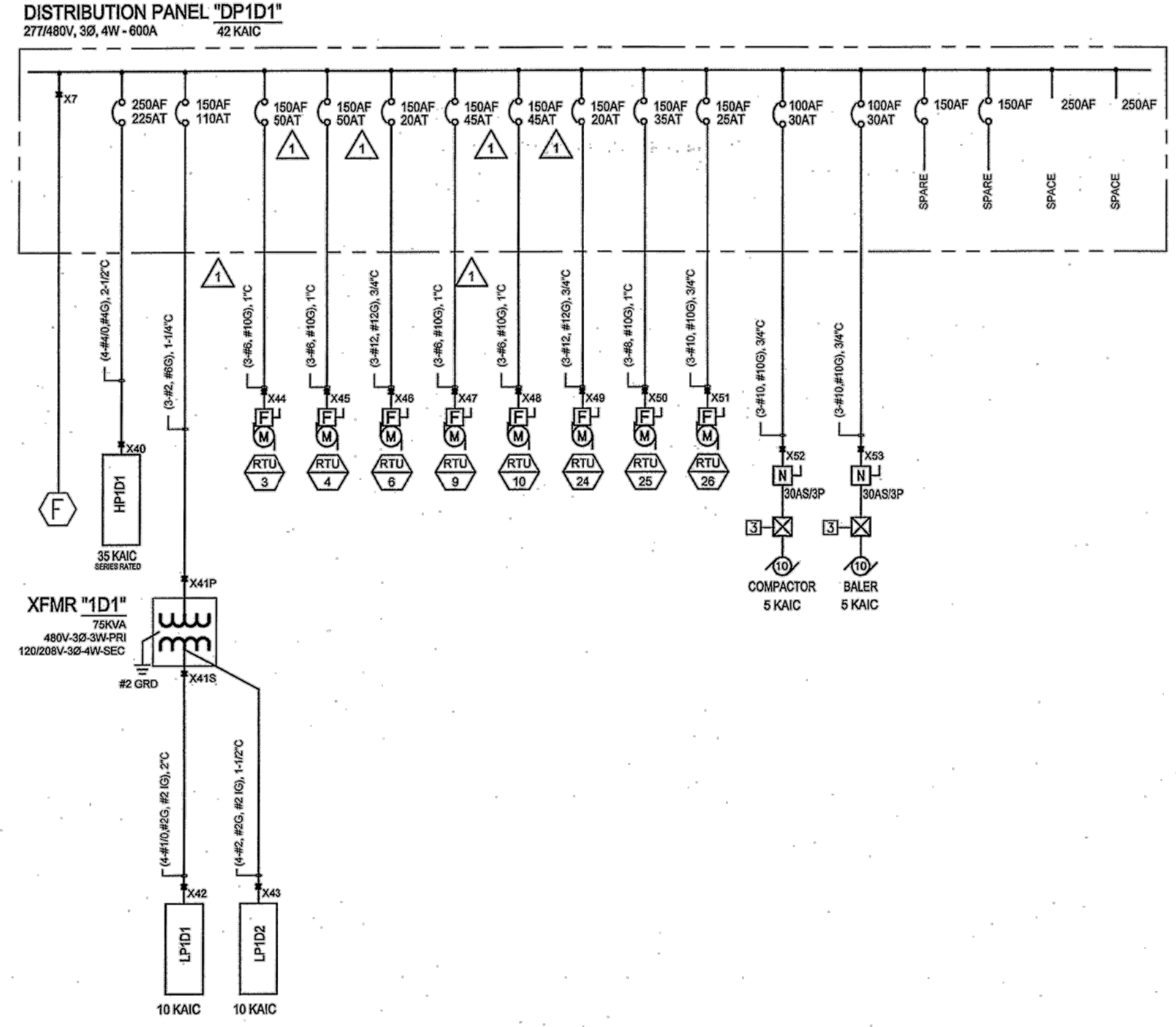
ELECTRICAL ROOM A



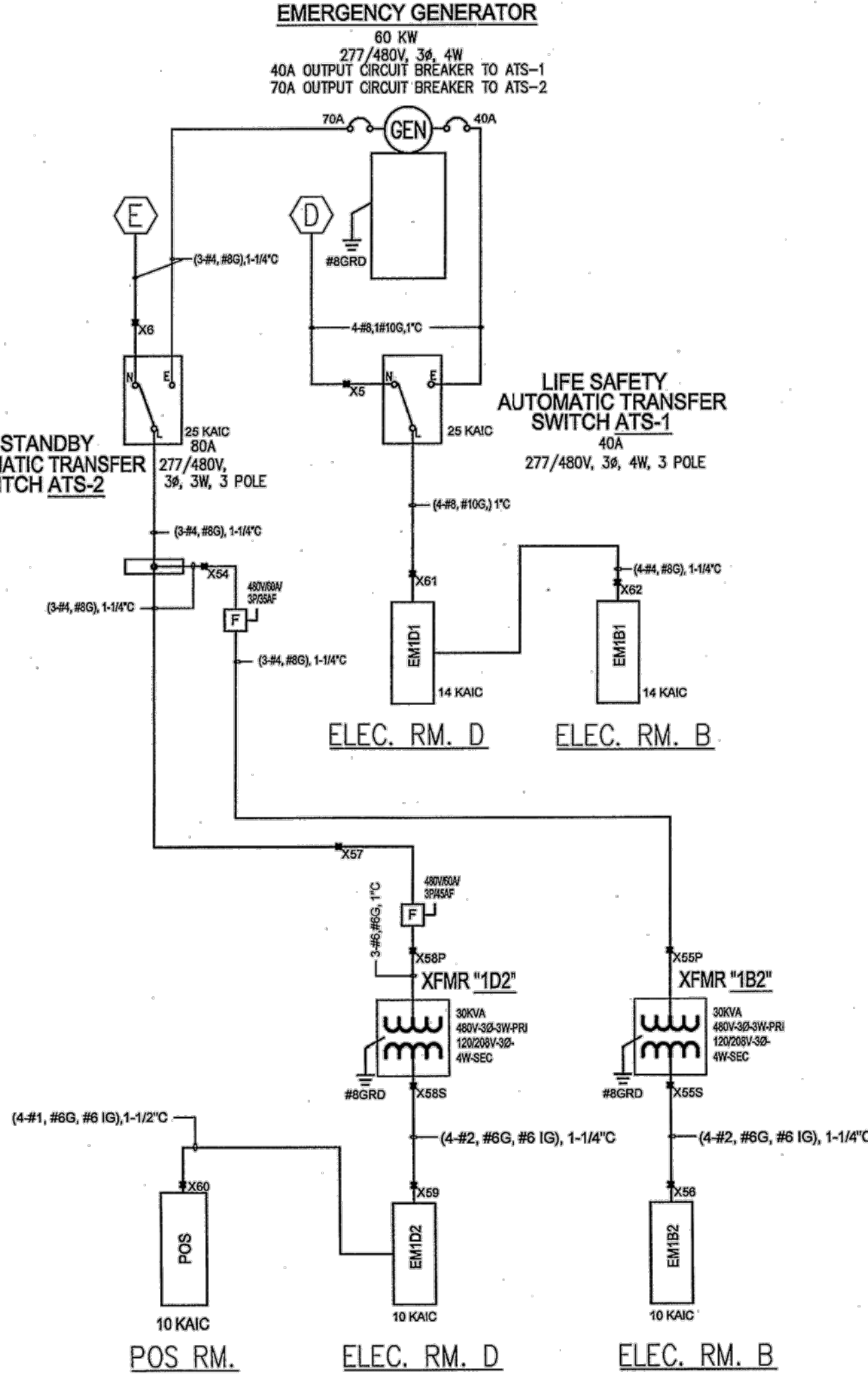
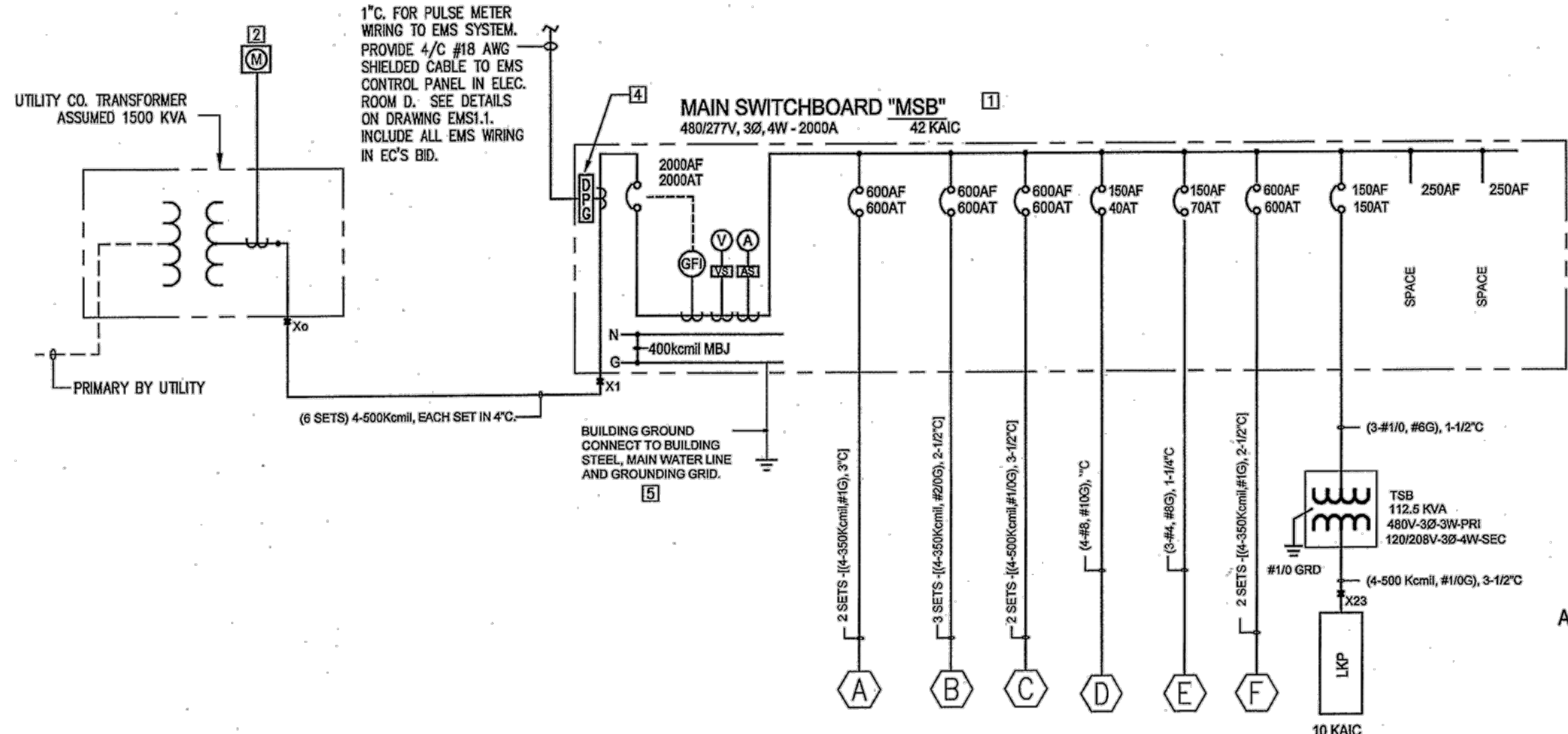
ELECTRICAL ROOM B



ELECTRICAL ROOM C



ELECTRICAL ROOM D



GENERAL NOTES:

- ALL DISCONNECTS SHOWN SHALL BE PROVIDED BY THE EC UNLESS OTHERWISE NOTED. SEE MECHANICAL SCHEDULE DRAWING FOR DISCONNECTS FURNISHED BY OTHERS.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250-122. SEE SPECIFICATIONS.
- MSB, MODULAR DISTRIBUTION PANELS, TRANSFORMERS AND BRANCH CIRCUIT PANELS ARE FURNISHED BY MACYS, INSTALLED BY EC.
- EC SHALL REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT FURNISHED BY EC.
- POS PANEL IS ISOLATED GROUND PANEL, FOR POS ROOM OUTLETS ONLY.
- EC SHALL INCLUDE ALL EMS WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM IN THEIR BID. SEE EMS DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS.
- EC SHALL USE COPPER CONDUCTORS AS INDICATED AS A BASE BID. AS AN ALTERNATE, PROVIDE ALUMINUM CONDUCTORS, PER THE FEEDER SCHEDULE THIS SHEET, FOR FEEDERS 100 AMPS AND GREATER. EC SHALL COORDINATE LUG SIZES AND MATERIALS TO ACCEPT THE CONDUCTORS INSTALLED.

KEYED NOTES:

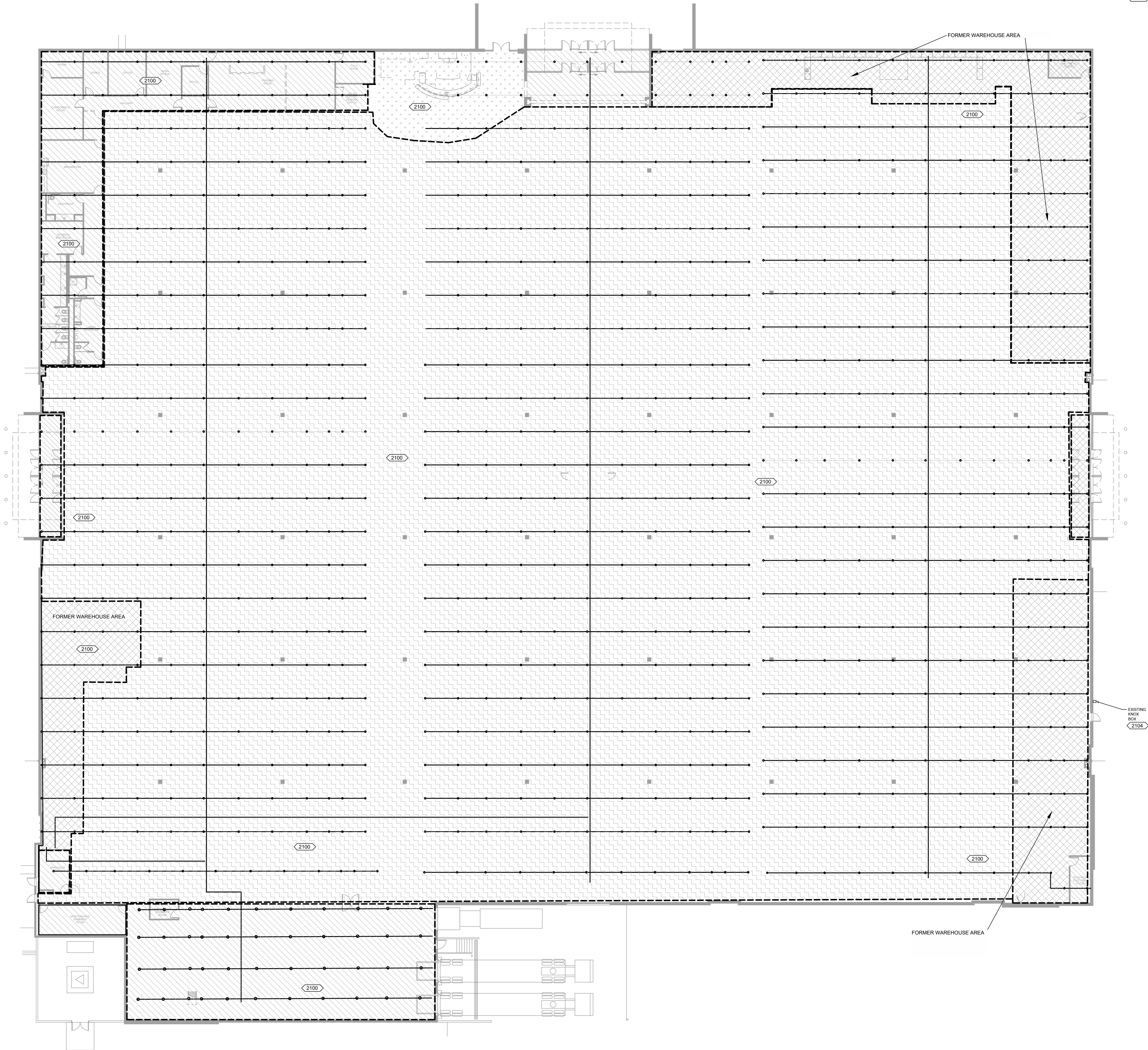
- MSB IS FURNISHED BY MACY'S AND INSTALLED BY EC.
- EC SHALL PROVIDE THE UTILITY TRANSFORMER PAD, GROUND RODS (ONE PER WINDOW), SECONDARY CONDUIT, SECONDARY CONDUCTORS, AND TERMINATIONS AT MSB. UTILITY SHALL PROVIDE PRIMARY CONDUCTORS, TRANSFORMER, METER ENCLOSURE MOUNTED ON TRANSFORMER, CT'S IN TRANSFORMER, TERMINATIONS AT TRANSFORMER, METER AND METER WIRING. DEVELOPER SHALL PROVIDE THE PRIMARY CONDUITS. INSTALLATION SHALL BE IN CONFORMANCE WITH ALL SERVING UTILITY AND AHI REQUIREMENTS. UTILITY CONTACT IS DODG DAWN (916-551-5847) AT KCP&L (FORMERLY AQUILA).
- EQUIPMENT CONTROLLER FURNISHED AND INSTALLED BY OTHERS. EC SHALL MAKE FINAL ELECTRICAL CONNECTIONS.
- EC SHALL MAKE FINAL CONNECTIONS TO PULSE OUTPUT METER FURNISHED WITH MSB. EC SHALL COORDINATE INSTALLATION AND ENSURE PROPER OPERATION.
- PROVIDE ELECTRICAL GROUNDING SYSTEM PER DETAIL 2/ES.01.

FEEDER SCHEDULE			
OCPD Setting	Copper Conductors	Aluminum Conductors	Load
2000	6 sets of (4-500 kcmil)	4" 6 sets of (4-500 kcmil)	MSB
MSB	400 kcmil	400 kcmil	MSB GND
600	2 sets of (4-350 kcmil, #1/G)	2-1/2" 2 sets of (4-500 kcmil, #2/Ø)	DP1A1
600	3 sets of (4-350 kcmil, #2/Ø)	2-1/2" 3 sets of (4-500 kcmil, #4/Ø)	DP1B1
600	2 sets of (4-350 kcmil, #1/Ø)	2-1/2" 2 sets of (4-350 kcmil, #3/Ø)	DP1C1
600	2 sets of (4-350 kcmil, #1/G)	2-1/2" 2 sets of (4-500 kcmil, #2/Ø)	DP1D1
400	4-500 kcmil, #1/Ø	3-1/2" 2 sets of (4-250 kcmil, #3/Ø)	LFP
225	4#4/Ø, #4/G	2-1/2" 4-300 kcmil, #2/G	HP1A1
225	4#4/Ø, #4/G	2-1/2" 4-300 kcmil, #2/G	HP1B1
225	4#4/Ø, #4/G	2-1/2" 4-300 kcmil, #2/G	HP1C1
225	4#4/Ø, #4/G	2-1/2" 4-300 kcmil, #2/G	HP1D1
150	3#1/Ø, #6/G	1-1/2" 3#3/Ø, #4/G	XFMR 1A1
GEC #1/Ø	#3/Ø	#3/Ø	JA1 GND
150	3#1/Ø, #6/G	1-1/2" 3#3/Ø, #4/G	XFMR 1B1
GEC #1/Ø	#3/Ø	#3/Ø	TSB GND
150	4#1/Ø, #1/ØG, #1/Ø IG	2" 4#3/Ø, #3/ØG, #3/Ø IG	LP1A1
150	4#1/Ø, #1/ØG, #1/Ø IG	2" 4#3/Ø, #3/ØG, #3/Ø IG	LP1A2
150	4#1/Ø, #2/G, #2 IG	2" 4#3/Ø, #1/ØG, #1/Ø IG	LP1B1
150	4#1/Ø, #2/G, #2 IG	2" 4#3/Ø, #1/ØG, #1/Ø IG	LP1C1
150	4#1/Ø, #2/G, #2 IG	2" 4#3/Ø, #1/ØG, #1/Ø IG	LP1D1
110	3#2, #6/G	1-1/2" 3#1/Ø, #4/G	XFMR 1B1
110	3#2, #6/G	1-1/2" 3#1/Ø, #4/G	XFMR 1C1
110	3#2, #6/G	1-1/2" 3#1/Ø, #4/G	XFMR 1D1
GEC #2/G	#1/Ø	#1/Ø	1B1 GND
GEC #2/G	#1/Ø	#1/Ø	1C1 GND
GEC #2/G	#1/Ø	#1/Ø	1D1 GND
100	4#2, #2/G, #2 IG	1-1/2" 4#1/Ø, #1/ØG, #1/Ø IG	LP1A3
100	4#2, #2/G, #2 IG	1-1/2" 4#1/Ø, #1/ØG, #1/Ø IG	LP1B2
100	4#2, #2/G, #2 IG	1-1/2" 4#1/Ø, #1/ØG, #1/Ø IG	LP1C2
100	4#2, #2/G, #2 IG	1-1/2" 4#1/Ø, #1/ØG, #1/Ø IG	LP1D2

LOAD CALCULATION SUMMARY			
SUMMIT FARM MALL - LEE'S SUMMIT, MO JOB NO. 06130.00			
LOAD TYPE	CONNECTED LOAD (KVA)	NEC FACTOR	NEC DEMAND LOAD (KVA)
LIGHTING	209.95	1.25	262.44
RECEPTACLES	187.10	1.00	187.10
MECHANICAL	752.95	1.00	752.95
25% OF LARGEST MOTOR	34.92	0.25	8.73
PLUMBING	26.50	1.00	26.50
TOTAL	1168.08	KVA	1144.95
AT 480V/3PH/4W	1495.61	AMPS	1377.79
SIZE SERVICE AT 2000 AMPS			
6 SETS OF 4-500KCM			

1 FIRE SPRINKLER PLAN

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



INSTALLATION NOTES:

- 2100 FIELD-VERIFY EXISTING CONDITIONS AND LAYOUT. PIPING AND SPRINKLER HEAD LOCATIONS SHOWN ARE GENERALLY FROM DRAWINGS FP-1 THROUGH FP-5, CODE CONSULTANTS, INC., MACH'S SOUTH DATED 06-08-08. SEE AREA DESIGNATION LEGEND FOR PROPOSED MODIFICATIONS.
- 2101 EXISTING FIRE SERVICE RISERS SERVING TWO ZONES.
- 2102 FIRE EXTINGUISHERS ARE EXISTING AND REMAIN. CONTRACTOR SHALL FIELD VERIFY CONDITION AND SERVICE OR REPLACE AS NECESSARY. ADDITIONAL FIRE EXTINGUISHERS SHALL BE PROVIDED AS REQUIRED BY THE FIRE DEPARTMENT AND OWNER.
- 2103 EXISTING KNOX BOX LOCATION. CHANGE LOCK PER FIRE DEPARTMENT REQUIREMENTS. FINAL LOCATION SHALL BE DETERMINED BY FIRE DEPARTMENT.

AREA DESIGNATIONS:

- AREA TO REMAIN AS-IS, NO CHANGES TO CEILING OR WALLS PROPOSED
- CEILING AND WALLS TO BE REMOVED. ORIENT SPRINKLER HEADS UP.
- NEW WALLS AND CEILING TO BE INSTALLED.
- WALLS TO BE REMOVED.

GENERAL NOTES: (WET-PIPE FIRE SUPPRESSION SPRINKLERS)

1. INCLUDE ALL PLANT FACILITIES, LABOR, MATERIAL, EQUIPMENT AND SERVICE NECESSARY FOR THE DESIGN AND RECONFIGURATION OF THE EXISTING AUTOMATIC SPRINKLER SYSTEM AND PIPING.
2. SYSTEM RECONFIGURATION SHALL BE DESIGNED AND COMPLY WITH THE LATEST VERSION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NFPA 13 INSTALLATION OF SPRINKLER SYSTEMS, AND NFPA 70 NATIONAL ELECTRICAL CODE.
3. SUBMIT DRAWINGS SIGNED BY A REGISTERED FIRE PROTECTION ENGINEER OR SIGNED BY A NICET IP CERTIFIED FIRE SUPPRESSION DESIGNER IF ALLOWED BY LOCAL FIRE CODE OFFICIAL. SUBMIT HYDRAULIC CALCULATIONS TO SUBSTANTIATE COMPLIANCE WITH HYDRAULIC DESIGN REQUIREMENTS. SUBMIT NAME OF SOFTWARE PROGRAM IF USED AND CERTIFICATES.
4. DESIGN SHALL BE IN ACCORDANCE WITH HYDRAULIC CALCULATIONS FOR UNIFORM DISTRIBUTION OF WATER OVER THE DESIGN AREA. LOCATE SPRINKLER HEADS IN A CONSISTENT PATTERN.
5. DEVICES AND EQUIPMENT FOR FIRE PROTECTION SERVICE SHALL BE UL FPD LISTED.
6. IN GENERAL, WORK SHALL INCLUDE BUT NOT BE LIMITED TO:
A. COMPLETE RECONFIGURED OVERHEAD AUTOMATIC SPRINKLER SYSTEM.
7. PROVIDE FITTINGS FOR CHANGES IN DIRECTION OF PIPING AND FOR CONNECTIONS. MAKE CHANGES IN PIPING SIZES THROUGH TAPERED REDUCING PIPE FITTINGS. BUSHINGS WILL NOT BE PERMITTED.
8. STEEL PIPING SHALL BE SCHEDULE 40. FITTINGS INTO WHICH SPRINKLER HEADS, SPRINKLER HEAD RISER NIPPLES, OR DROP NIPPLES ARE THREADED SHALL BE THREADED TYPE. FITTINGS SHALL BE UL FPD LISTED.
9. PROVIDE NOMINAL 0.50 INCH ORIFICE SPRINKLER HEADS. O-RINGS WILL NOT BE PERMITTED IN SPRINKLER HEADS. RELEASE ELEMENT OF EACH HEAD SHALL BE OF THE STANDARD TEMPERATURE RATING OR HIGHER AS SUITABLE FOR THE SPECIFIC APPLICATION.
10. PROVIDE NEW PIPE HANGERS AND SUPPORTS WHERE NECESSARY IN ACCORDANCE WITH NFPA 13.
11. INSTALL NEW PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGERS AND SUPPORTS. ALL NEW PIPING SHALL BE REAMED TO REMOVE ALL BURRS, AND PIPE SECTIONS SHALL BE CLEANED INSIDE TO REMOVE ALL CHIPS AND FOREIGN MATERIALS PRIOR TO MAKING JOINTS.
12. KEEP THE INTERIOR AND ENDS OF NEW PIPING AND EXISTING PIPING AFFECTED BY CONTRACTOR'S OPERATIONS THOROUGHLY CLEANED OF WATER AND FOREIGN MATTER. KEEP PIPING SYSTEMS CLEAN DURING INSTALLATION BY MEANS OF PLUGS OR OTHER APPROVED METHODS. WHEN WORK IS NOT IN PROGRESS, SECURELY CLOSE OPEN ENDS OF PIPING TO PREVENT ENTRY OF WATER AND FOREIGN MATTER. INSPECT PIPING BEFORE PLACING INTO POSITION.
13. PROVIDE TEFLON PIPE THREAD PASTE ON MALE THREADS.
14. ALL NEW DRAIN VALVES AND TEST VALVES IF NECESSARY SHALL BE REPLACEABLE RUBBER OR COMPOSITION DISCS.
15. ALL PENDANT SPRINKLERS LOCATED WITHIN SEVEN (7) FEET OF THE FLOOR SHALL BE PROVIDED WITH SPRINKLER GUARDS.
16. EXTRA SPRINKLERS IN QUANTITIES REQUIRED BY NFPA 13 SHALL BE PROVIDED AND SHALL BE PLACED WITHIN THE EXISTING CABINET WHICH IS LOCATED ADJACENT TO THE MAIN RISER. THE CABINET SHALL BE PROVIDED WITH A SPRINKLER WRENCH, OR SPECIAL WRENCH WHERE APPLICABLE.
17. NEW INSPECTOR'S TEST VALVES IF NECESSARY SHALL BE INSTALLED DOWNSTREAM OF WATER-FLOW DEVICE. INSPECTOR'S TEST OUTLETS SHALL BE PIPED TO DRAIN OUTSIDE OF THE BUILDING OR INTO THE SEWER DRAIN. VALVES SHALL BE WITHIN SIX (6) FEET OF THE FLOOR OR FINISHED GRADE. WHEN THE DISCHARGE OUTLET CANNOT BE SEEN FROM THE VALVE OR WHEN INSPECTOR'S TEST CONNECTIONS ARE PIPED INTO THE SEWER SYSTEM, A SIGHT GLASS SHALL BE PROVIDED. DIRECT INTERCONNECTIONS SHALL NOT BE MADE BETWEEN SEWERS AND SPRINKLER DRAINS.
18. NEW PRESSURE GAUGES SHALL BE PROVIDED AT EACH SIDE OF THE MAIN CHECK VALVE AND AT THE CONTROL VALVE.
19. PROVIDE PIPE MARKERS ON NEW EXPOSED PIPING WITH THE WORDS "AUTO SPRINKLER" OR "FIRE SPRINKLER" IN A MINIMUM 2 INCH HIGH LETTERING SO AS TO BE EASILY READ FROM THE GROUND OR FLOOR LEVEL. MARKERS SHALL BE SPACED AT A MAXIMUM OF 25 FEET BETWEEN MARKERS.
20. ALL COMPONENTS OF THE SYSTEM MUST BE HYDROSTATICALLY TESTED AT 200 PSI FOR A MINIMUM OF TWO (2) HOURS. ALL PIPING MUST BE EXPOSED FOR THE HYDROSTATIC TEST. PORTIONS OF THE SYSTEMS MAY BE TESTED SEPARATELY, BUT CARE MUST BE TAKEN TO INSURE THAT ALL PIPING, CONNECTIONS THERETO, AND DEVICES ARE TESTED.
21. THE CONTRACTOR SHALL CERTIFY THAT THE WORK IS INSTALLED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS AND THE REQUIREMENTS OF NFPA 13 AND NFPA 24.

LEGEND: 1/8" scale (THIS SHEET ONLY)

- MAIN FIRE ALARM CONTROL PANEL
- AUDIO/VISUAL FIRE ALARM DEVICE WITH, FOR EXAMPLE, 50dB AND 15 CD OUTPUT, MOUNT AT 6'-8" A.F.F.
- AUDIO FIRE ALARM DEVICE WITH, FOR EXAMPLE, 50 dB OUTPUT, MOUNT AT 6'-8" A.F.F.
- VISUAL ALARM DEVICE WITH, FOR EXAMPLE, 15 CD OUTPUT, MOUNT AT 6'-8" A.F.F.
- PHOTOELECTRIC TYPE SMOKE DETECTOR
- IONIZATION TYPE SMOKE DETECTOR
- HEAT TYPE DETECTOR
- MANUAL FIRE ALARM PULL STATION, MOUNT AT 48" A.F.F.
- PHOTOELECTRIC DUCT TYPE SMOKE DETECTOR
- SPRINKLER SYSTEM ALARM SWITCH
- SPRINKLER SYSTEM FLOW SWITCH
- SPRINKLER VALVE TAMPER SWITCH
- AUXILIARY FAN SHUT DOWN RELAY
- MAGNETIC HOLD OPENS TIED INTO FIRE ALARM SYSTEM
- FIRE EXTINGUISHER
- INSPECTOR'S TEST CONNECTION
- FIRE ANNUNCIATOR PANEL
- HYDRANT
- FIRE DEPARTMENT CONNECTION
- SPRINKLER HEAD - UPRIGHT
- SPRINKLER HEAD - PENDANT
- SPRINKLER HEAD - CONCEALED
- SPRINKLER HEAD - SIDEWALL
- SPRINKLER ZONE CONTROL
- SPRINKLER SHUT OFF TOOL
- SUPPRESSION SYSTEM TANKS



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FOR REVIEW ONLY

FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022
3	PLAN REV. COMMENTS	3-23-2022

Sheet Index

Mechanical Series	
M1.0	Mechanical Notes, Schedules
M2.0	Mechanical Plan, Cafe Mechanical Plan
Plumbing Series	
P1.0	Plumbing Plan, Sanitary Riser, Plumbing Fixture Schedule, Supply Riser
Electrical Series	
E1.0	Power Plan, Electrical Riser
E2.0	Lighting Plan, Light Fixture Schedule, LPD
E3.0	Power Panelboard Layouts, Track Light Switching Riser
E4.0	Existing Electrical Riser
Fire Series	
F1.0	Fire Sprinkler Scope of Work

Fire Sprinkler Layout
Scope Work

Date	3-23-2022
Drawn by	...
Checked by	SCH

F1.0

Scale AS NOTED

SHEET INDEX	
G.000	COVER
A.111	SITE PLAN
A.211	EXTERIOR ELEVATIONS
A.321	WALL SECTIONS
A.322	WALL SECTIONS
A.351	EXTERIOR DETAILS
A.361	WINDOW TYPES

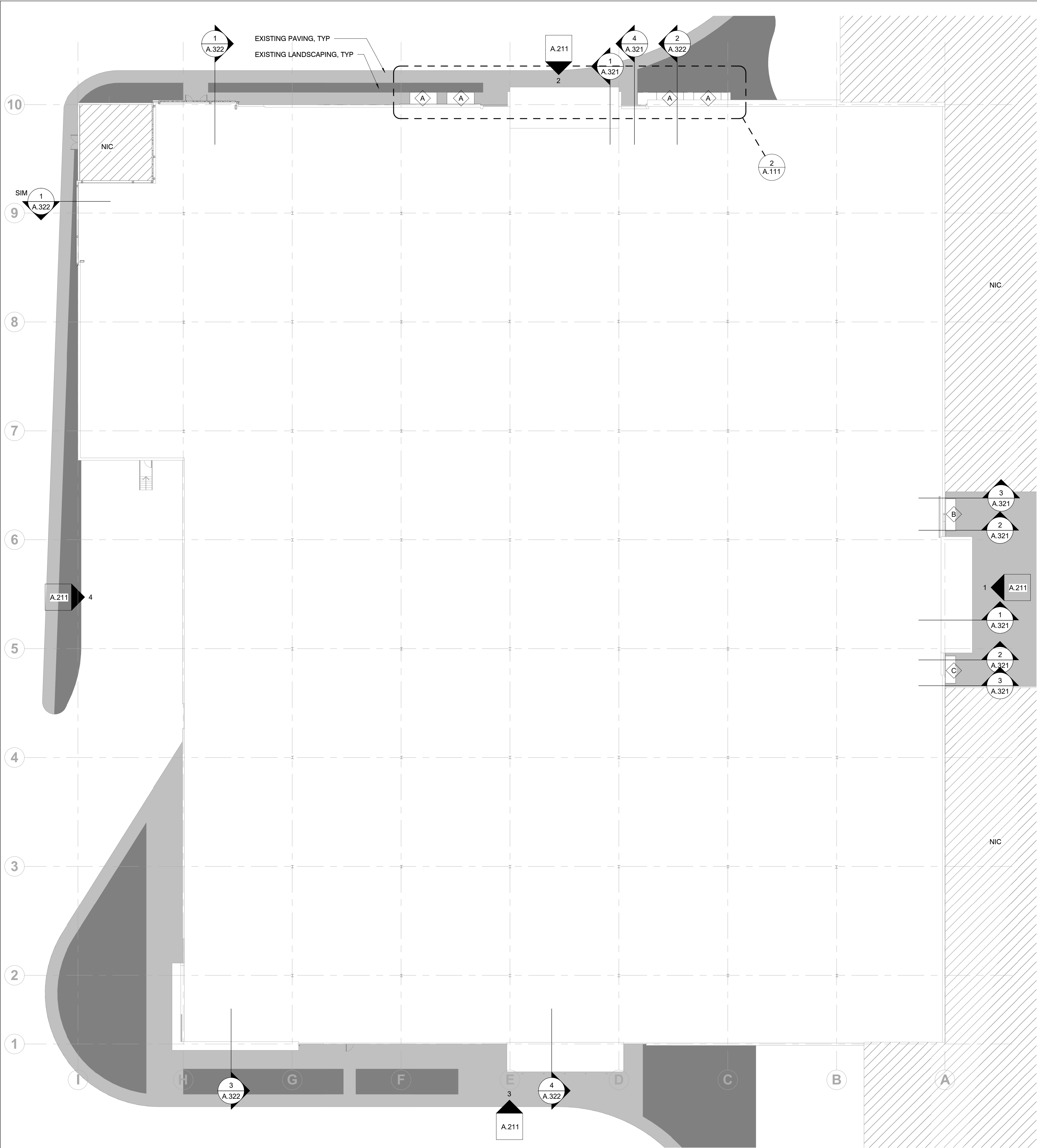
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EXTERIOR IMPROVEMENTS



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1 SITE PLAN

3/64" = 1'-0"

2 ENLARGED SITE PLAN

3/32" = 1'-0"

- GENERAL NOTES - ARCHITECTURAL SITE:**
1. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
 2. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
 3. ALL RELEVANT EXISTING CONDITIONS TO BE FIELD VERIFIED.



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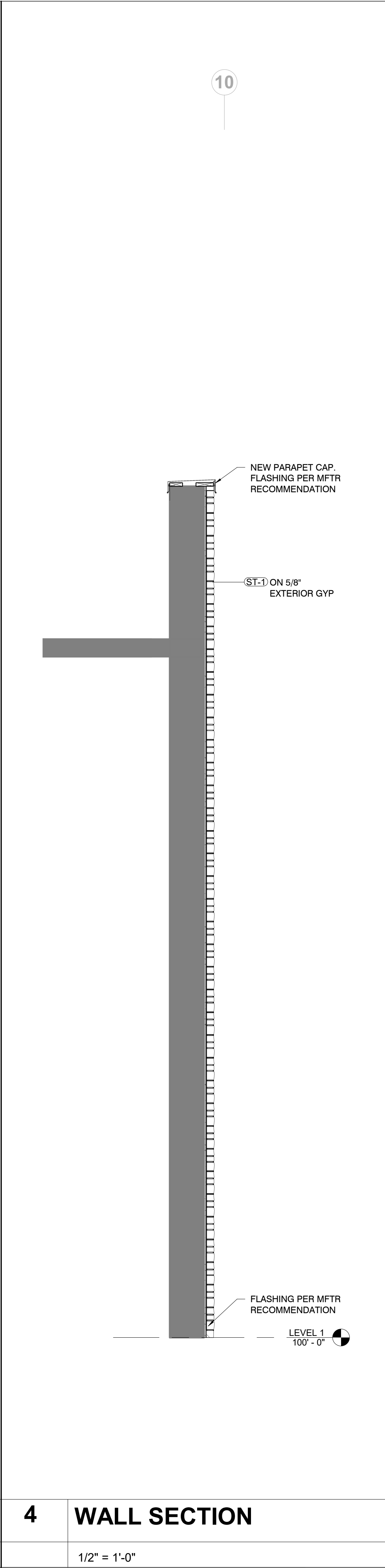
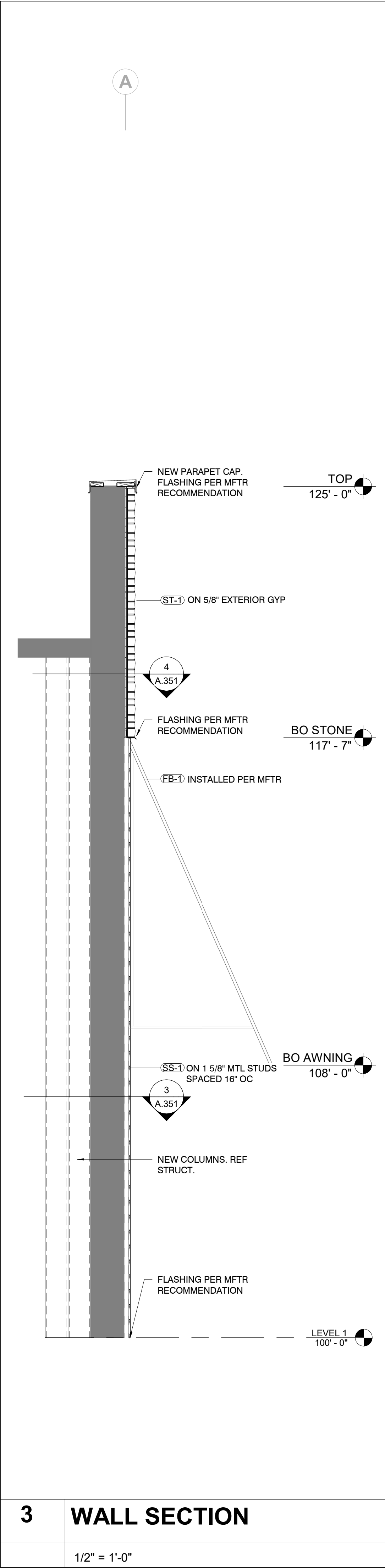
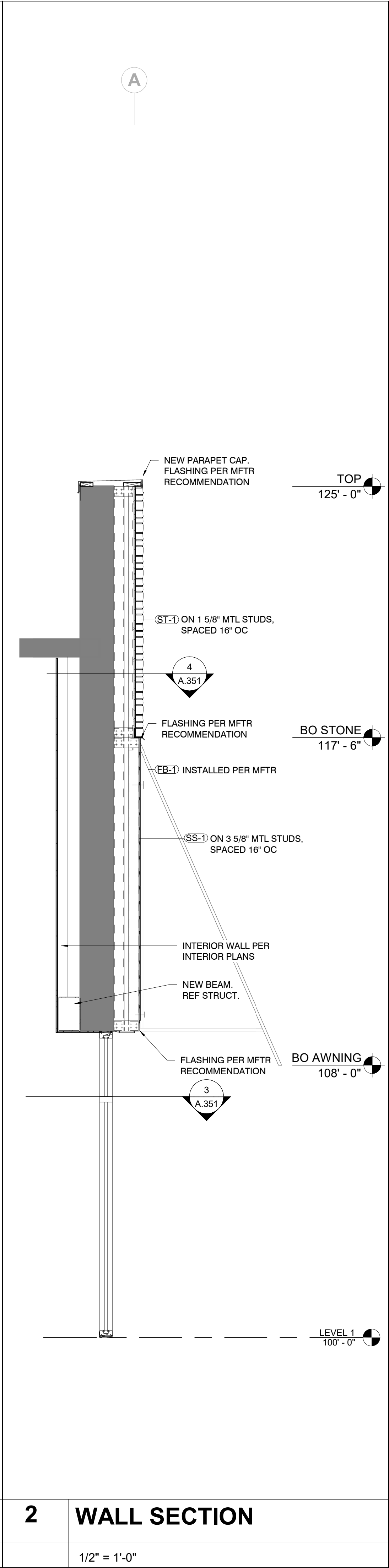
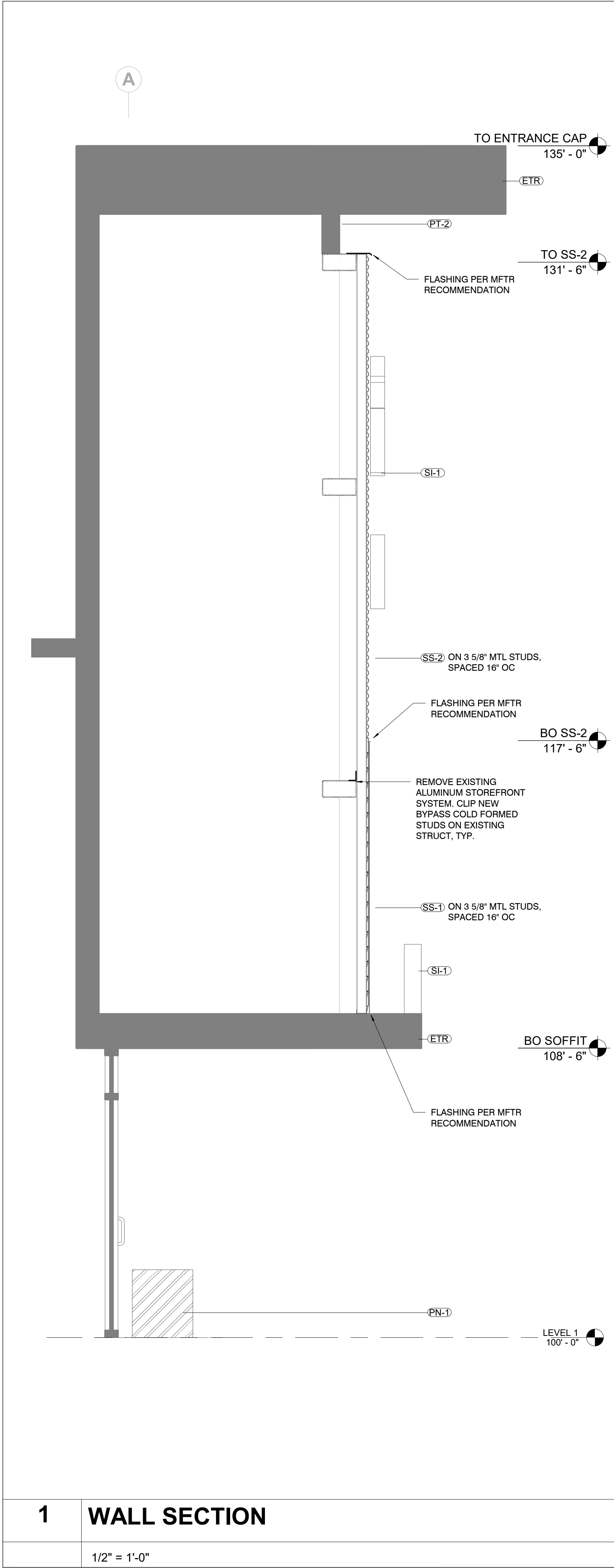
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SITE PLAN

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A.111



ALL INTERIOR WORK UNDER PERMIT SET.
SEE INTERIOR WORK CONSTRUCTION SET.

GENERAL NOTES – EXTERIOR WALL SECTIONS/ DETAILS:

1. RE: FLOOR PLANS AND ELEVATIONS FOR SECTION CUT LOCATIONS.
2. ALL WINDOW AND DOOR OPENING DIMENSIONS ARE ROUGH OPENING DIMENSIONS, UNLESS NOTED OTHERWISE.
3. DIMENSIONS SHOWN ON THE WALL SECTIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. ALL GLAZING IN CODE SPECIFIED "HAZARDOUS LOCATIONS" (i.e. DOORS, SIDE LITES, ETC.) SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS AS OUTLINED IN SECTIONS 2406 AND 2406.3 OF THE IBC.



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WALL SECTIONS

sheet number

1 WALL SECTION

1/2" = 1'-0"

2 WALL SECTION

1/2" = 1'-0"

3 WALL SECTION

1/2" = 1'-0"

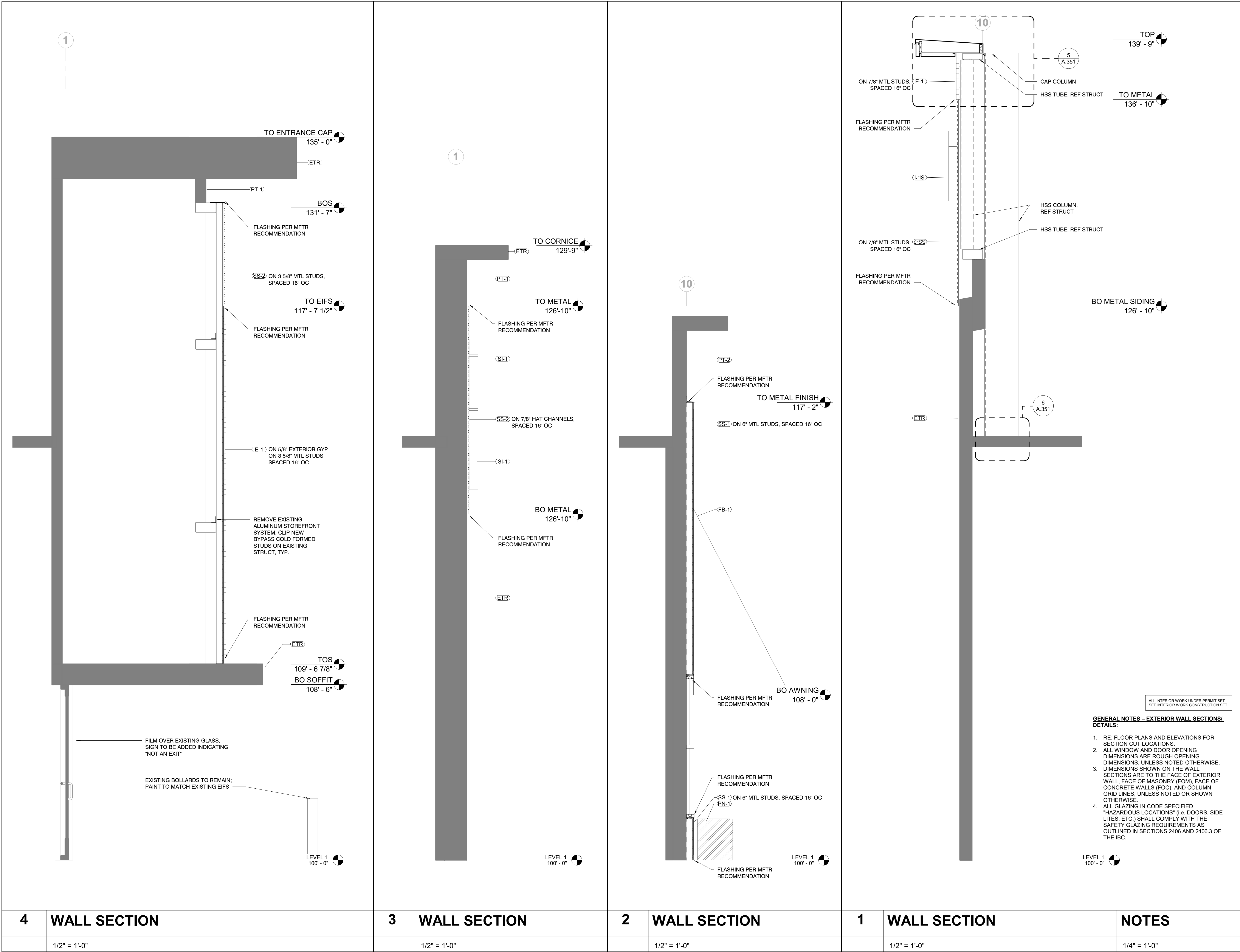
4 WALL SECTION

1/2" = 1'-0"

NOTES

1/4" = 1'-0"

A.321



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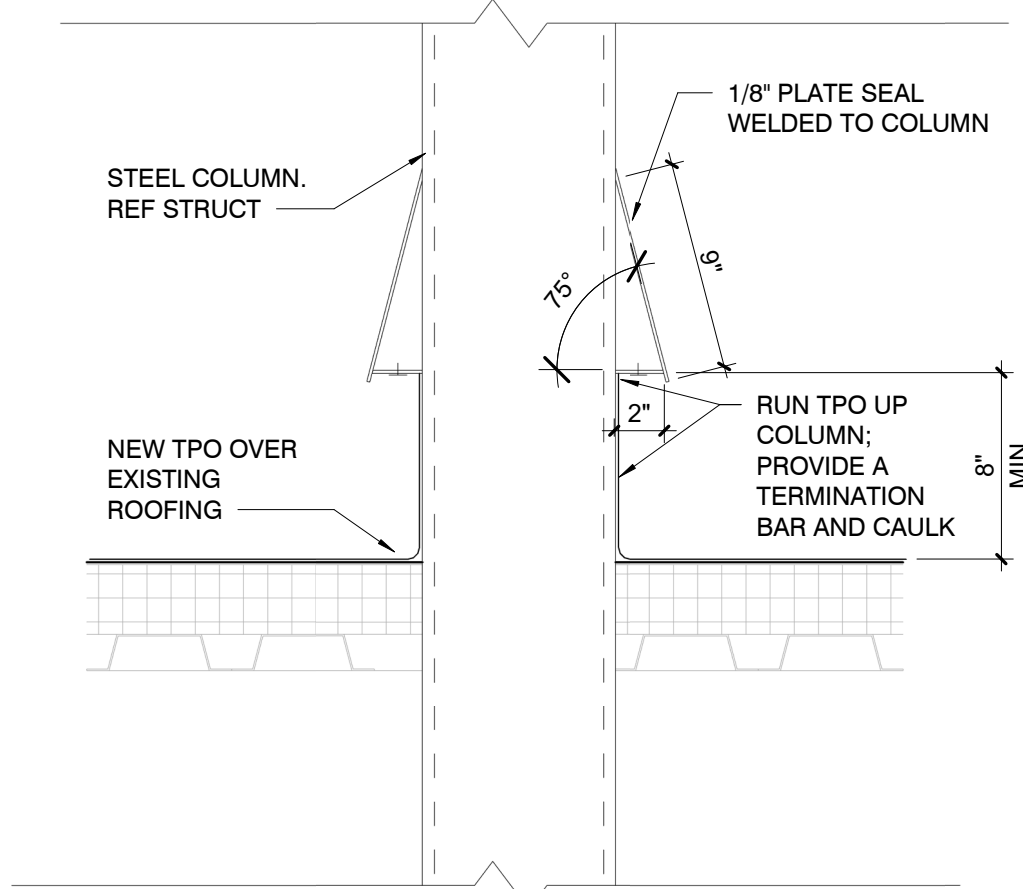
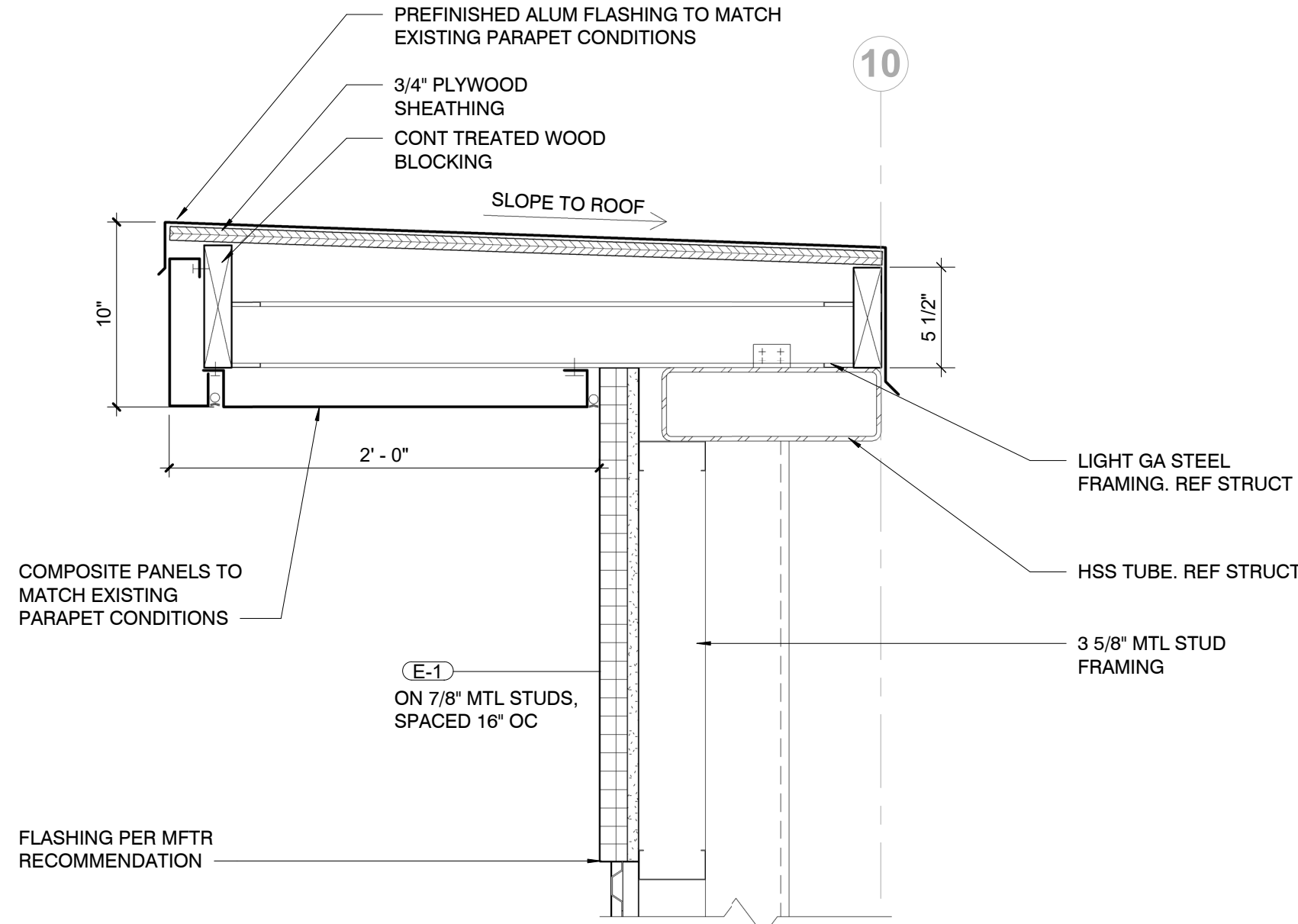


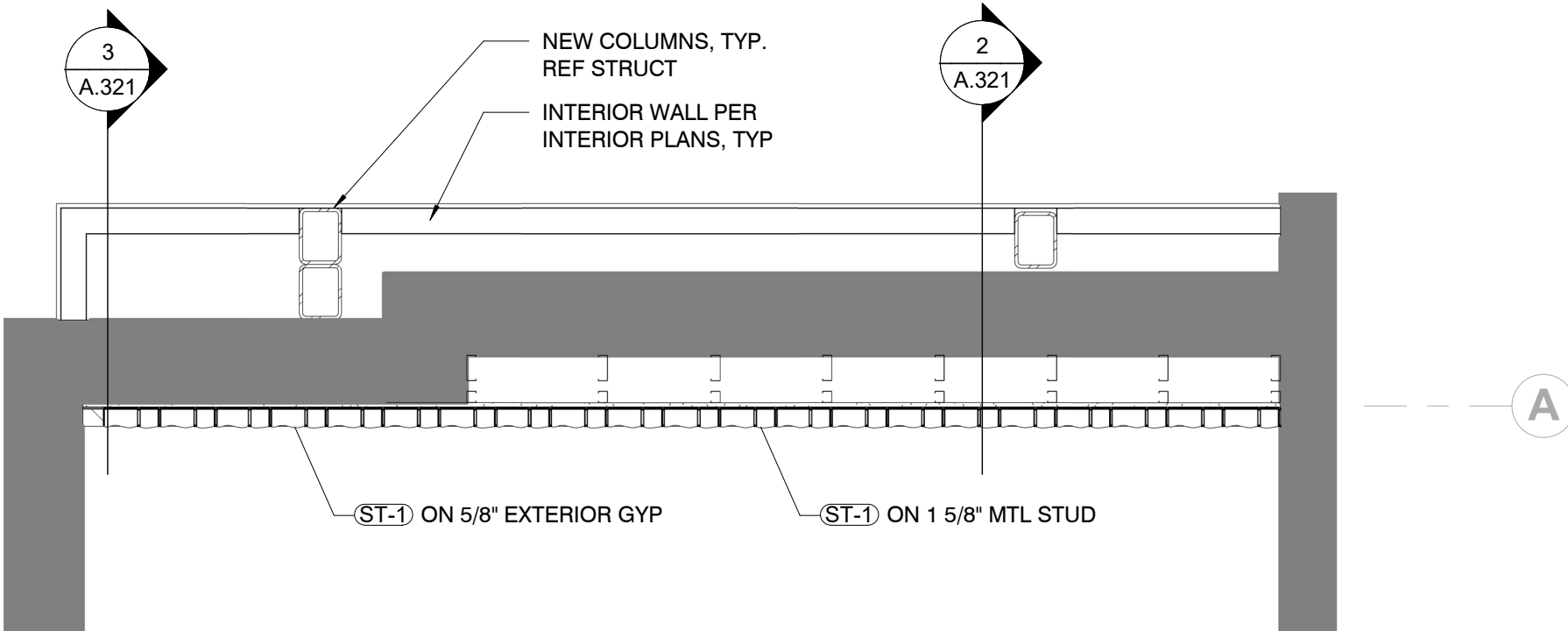
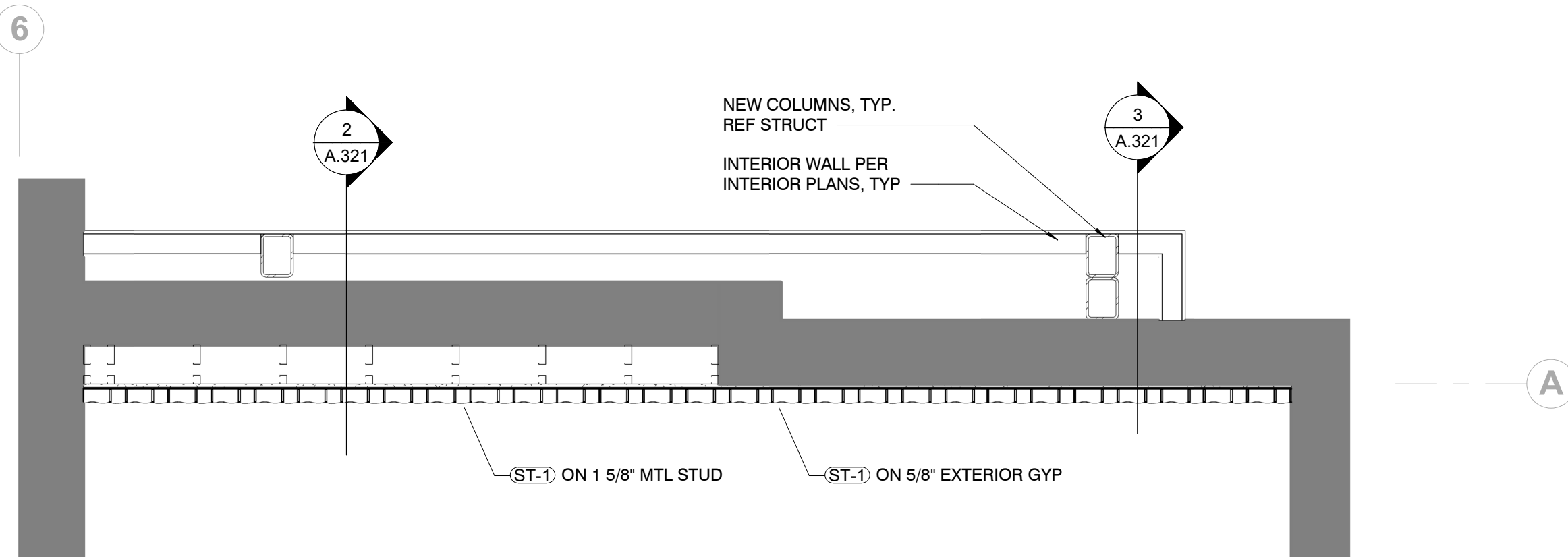
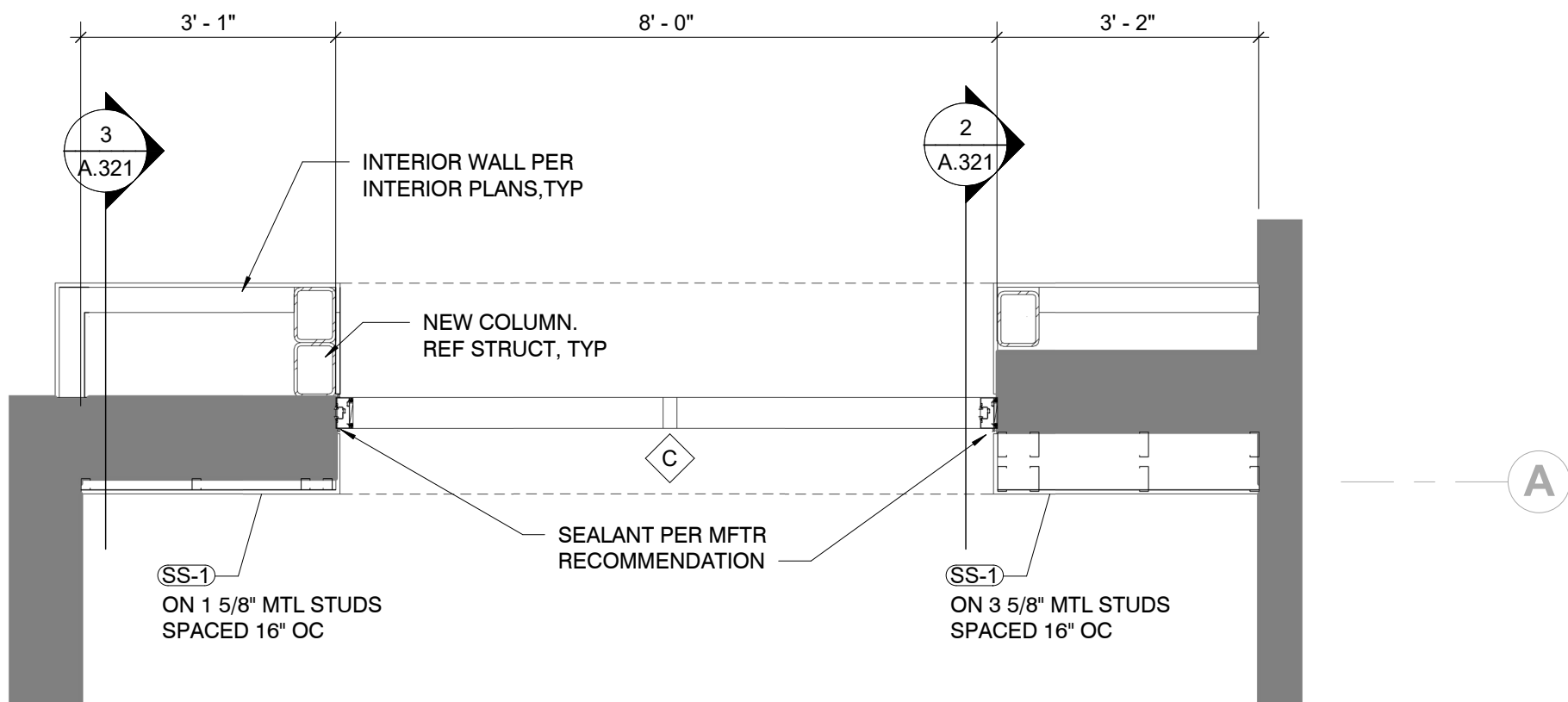
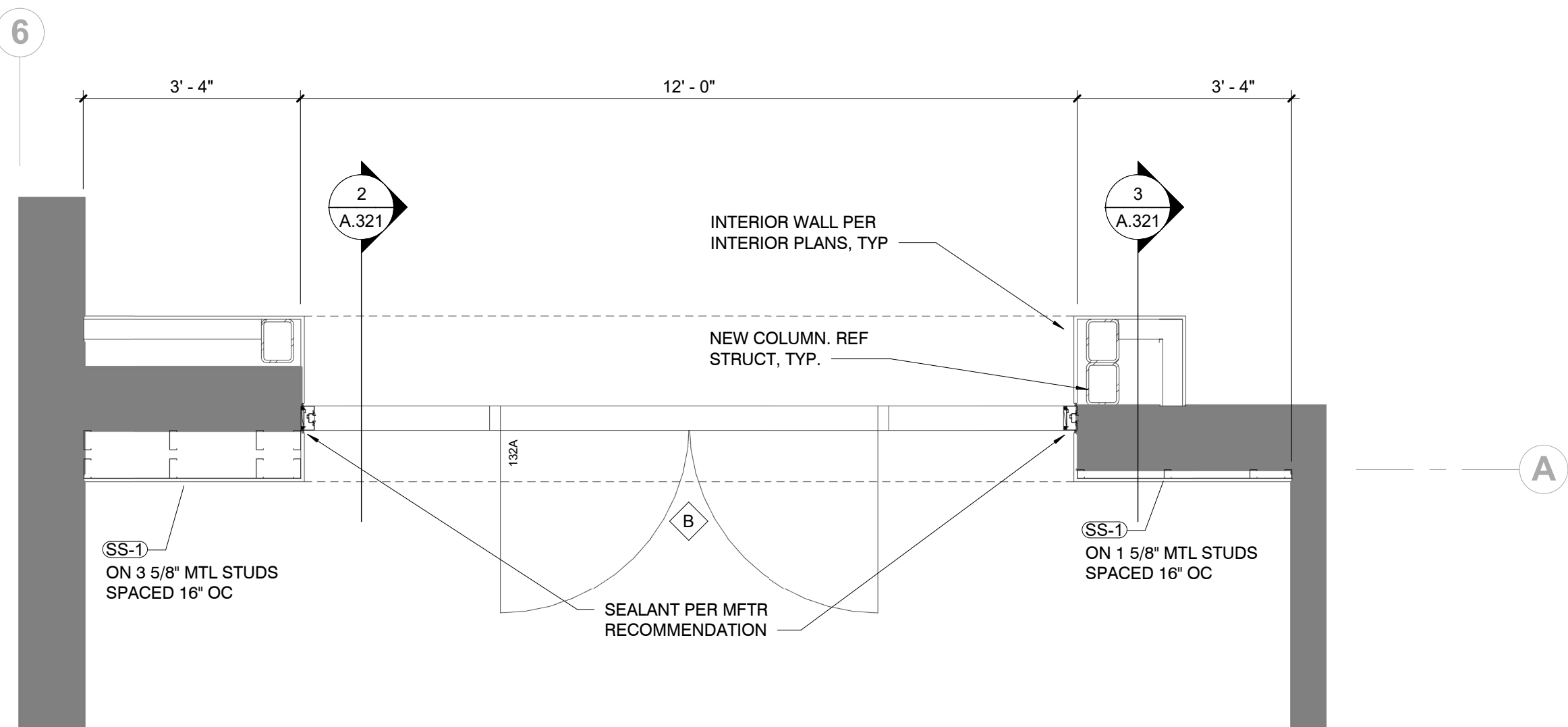
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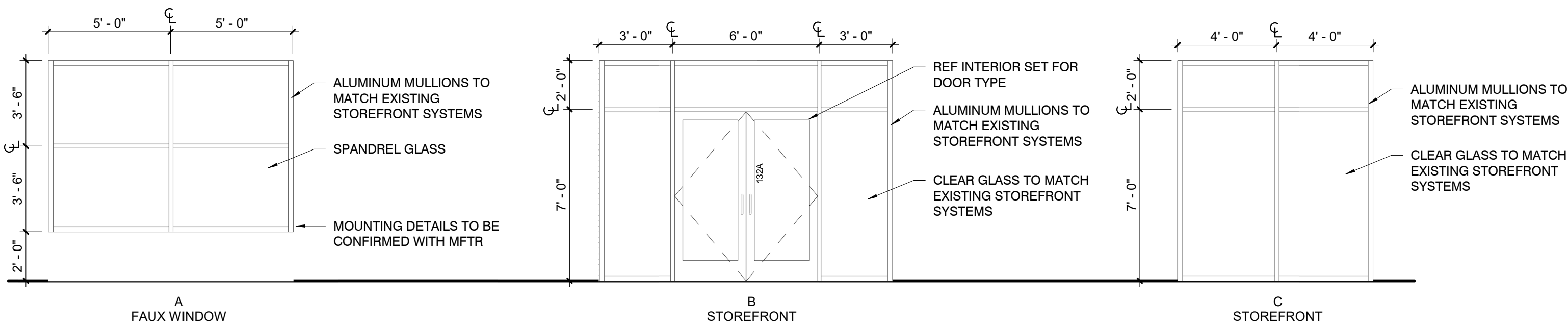
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WALL SECTIONS

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A.322

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project number	2021-055												
date	02.10.2022												
issued for	PERMIT												
rev	date	description											
6	TYP ROOF PENETRATION AT COLUMN	5	PARAPET DETAIL										
	1 1/2" = 1'-0"		1 1/2" = 1'-0"										
													
4	PLAN DETAIL 2.2	2	PLAN DETAIL 1.2										
	1/2" = 1'-0"		1/2" = 1'-0"										
													
3	PLAN DETAIL 2.1	1	PLAN DETAIL 1.1										
	1/2" = 1'-0"		1/2" = 1'-0"										



WINDOW TYPES

1/4" = 1'-0"

NOTES

1/4" = 1'-0"



FURNITURE MALL TENANT IMPROVEMENT

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WINDOW TYPES

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