

LEOK OFFICE RENOVATION

209 SE DOUGLAS
LEE'S SUMMIT, MO 64063

PERMIT SET

JULY 17, 2023

COLLINS WEBB #: 23033



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OWNER

LEIGH + O'KANE
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LEE'S SUMMIT, MO 64086
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GENERAL			
SHEET NUMBER	SHEET NAME	ISSUE DATE	REVISION DATE
GS	COVER SHEET	07.17.23	
G000	SHEET INDEX / GENERAL INFORMATION	07.17.23	08.08.2023
G001	GENERAL INFORMATION	07.17.23	
G002	ACCESSIBILITY GUIDELINES	07.17.23	
G003	LIFE SAFETY PLANS AND PROJECT INFO.	07.17.23	08.08.2023
GS01	SPECIFICATIONS	07.17.23	
GS02	SPECIFICATIONS	07.17.23	

STRUCTURAL			
SHEET NUMBER	SHEET NAME	ISSUE DATE	REVISION DATE
S01	ROOF PLAN / DETAILS	07.14.23	08.08.2023

ARCHITECTURAL			
SHEET NO.	SHEET NAME	ISSUE DATE	REVISION DATE
A101	PLAN & RCP	07.17.23	08.08.2023
A201	EXTERIOR ELEVATIONS & WALL SECTIONS	07.17.23	
A501	DOOR SCHEDULE, FINISH LEGEND & FINISH SCHEDULE	07.17.23	08.08.2023
A712	INTERIOR ELEVATIONS	07.17.23	08.08.2023
A713	INTERIOR ELEVATIONS & DETAILS	07.17.23	08.08.2023

MEP			
SHEET NUMBER	SHEET NAME	ISSUE DATE	REVISION DATE
M000	MECHANICAL LEGEND AND SCHEDULES	07.17.23	
M001	MECHANICAL DETAILS	07.17.23	
M101	MECHANICAL PLAN	07.17.23	08.08.2023
M600	MECHANICAL SPECIFICATIONS	07.17.23	
P000	PLUMBING LEGEND AND SCHEDULES	07.17.23	08.08.2023
P001	PLUMBING DETAILS	07.17.23	
P002	PLUMBING DETAILS	07.17.23	
P003	PLUMBING RISER DIAGRAMS	07.17.23	
P101	PLUMBING PLAN	07.17.23	08.08.2023
P600	PLUMBING SPECIFICATIONS	07.17.23	
E000	ELECTRICAL DETAILS	07.17.23	
E101	ELECTRICAL POWER PLAN	07.17.23	08.08.2023
E201	LIGHTING PLAN	07.17.23	08.08.2023

GENERAL INFORMATION NOTES:

- CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, LOCAL RULES AND REGULATIONS, AND ALL OTHER CODES, REGULATIONS AND GOVERNING AGENCIES HAVING JURISDICTION WITH ALL APPLICABLE AMENDMENTS UNLESS ALTERED OR CHANGED THROUGH VARIANCES OF OTHER LEGAL PROCEDURES.
- UNLESS OTHERWISE INDICATED, ALL MATERIALS AND EQUIPMENT ON THE DRAWINGS IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- COORDINATE ALL CONSTRUCTION PRIOR TO BEGINNING WORK AND SUBMIT PROPOSED WORK SCHEDULE TO THE OWNER & ARCHITECT FOR APPROVAL.
- CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES, SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS & TESTING REQUIRED FOR COMPLETE RELATED WORK. THE GENERAL CONTRACTOR SHALL ALSO BE IN CHARGE OF THE OPERATION FROM THE TIME OF COMMENCEMENT UNTIL THE COMPLETION OF WORK AND TO WHOM ALL ORDERS AND DIRECTIONS SHALL BE GIVEN.
- ALL TRADES SHALL BE RESPONSIBLE TO READ ALL DRAWINGS, DETAILS, & PLANS ASSOCIATED WITH ALL PACKAGES INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING ASSOCIATED WITH THIS PROJECT TO ENSURE PROPER COORDINATION. IF ANY CONFLICTS EXIST, THAT TRADE SHALL NOTIFY THE CONTRACTOR OF THE SAME PRIOR TO CONSTRUCTION WHO SHALL IN TURN NOTIFY THE G.C.
- CONTRACTOR SHALL DIRECT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO CONSTRUCTION, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WORK WHICH PROCEEDS WITHOUT DUE COURSE AND COORDINATION.
- ALL MATERIALS SHOWN OR CALLED FOR ON THESE CONSTRUCTION DOCUMENTS TO BE NEW AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- THE GENERAL CONTRACTOR SHALL SUPPLY DETAILED COMPARISON OF SUBSTITUTION ITEMS REQUESTED FOR ARCHITECT APPROVAL. COMPARISON INFORMATION SHALL INCLUDE & NOT LIMITED TO SIGNIFICANT PRODUCT QUALITIES WHICH MAY ALTER VISUAL AND/OR PERFORMANCE OF A PRODUCT INCLUDING WEIGHT, SIZE, DURABILITY, & SPECIFIC FEATURES & REQUIREMENTS OF SUCH PRODUCT.
- ALL CEILING HEIGHTS ARE REFERENCED FROM NEAREST FINISHED FLOOR. ALL BEARING ELEVATIONS ARE BASED ON 100'-0" (REFERENCED ELEVATION) TYPICAL UNLESS NOTED OTHERWISE.
- ALL INTERIOR DIMENSIONS ARE TO FINISHED FACE OF GYP. BD. UNLESS NOTED OTHERWISE.
- ALL EXTERIOR MASONRY WALLS ARE DIMENSIONED FROM EXTERIOR FACE OF MASONRY TO FINISHED FACE OF INTERIOR GYPSUM BOARD UNLESS NOTED OTHERWISE.
- ALL EXTERIOR CLADDING (WOOD SIDING, VINYL SIDING, GIBBS BOARD SIDING, WOOD SIDING AND METAL WALL PANELS) ARE DIMENSIONED FROM EXTERIOR FACE OF SHEATHING TO FINISHED FACE OF INTERIOR GYPSUM BOARD UNLESS NOTED OTHERWISE.
- NO BACK TO BACK JUNCTION BOXES SHALL BE PERMITTED IN SOUND PARTITIONS.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL SMOKE DETECTORS, EXIT SIGNS, EMERGENCY LIGHT AND FIRE ALARM SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES.



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REVISION DATES:
1 City Comments & 08.08.2023 VE Revisions



PROFESSIONAL SEAL
G000
ISSUE DATE: JULY 17, 2023
COLLINS WEBB #: 23033

SHEET INDEX / GENERAL INFORMATION

TYPICAL RULES FOR DETERMINING REFLECTED CEILING PLAN LOCATIONS, DIMENSIONS, AND CONFIGURATIONS

GENERAL NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE WORK. **EXCEPTION:** DIMENSIONED LOCATIONS SHOWN ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:

- SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.
- OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCH SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON REFLECTED CEILING PLANS OF THE PROJECT.

C. THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - **IN ORDER** - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.

- WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
- IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.

D. REFER TO THE "ARCHITECTURAL GENERAL NOTES" FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.

E. FOR MANY SPACES, THE ARCHITECTURAL REFLECTED CEILING PLANS ESTABLISH AN IDEAL PATTERN FOR LOCATING SPRINKLER HEADS. IN SPACES WHERE HEADS ARE SHOWN, FOLLOW PATTERN ESTABLISHED BY THE DRAWINGS. WHERE ADDL. HEADS ARE REQUIRED TO CONFORM WITH CODE, PROVIDE HEADS IN GENERAL CONFORMITY WITH PATTERN ESTABLISHED BY THE DRAWINGS.

F. IN SPACES WHERE SPRINKLER HEADS ARE NOT SHOWN BY THE ARCHITECTURAL REFLECTED CEILING PLANS, PROVIDE HEADS AS REQUIRED BY CODE.

RULE 1
WHEN COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES.

RULE 2
WHEN NOT DIMENSIONED BUT SHOWN CENTERED

LOCATE ITEMS CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) VISUALLY AT APPROXIMATE CENTER OF SPACE.

RULE 3
WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE

LOCATE ITEMS CENTERED ON ADJACENT OPENING OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT FEATURE.

RULE 4
WHEN ALIGNED WITH OTHER FEATURES

LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC.) ALIGNED WITH ADJACENT ITEMS FOR WHICH DIMENSIONS OR RULES ARE PROVIDED. VISUAL ALIGNMENT IS CRITICAL. THE CONTRACTOR SHALL SELECT ONE ITEM IN EACH LINE (ON BASIS OF TOLERANCES, SEQUENCE OF CONSTRUCTION, TRADE, OR OTHER CRITERIA) TO SERVE AS THE BENCHMARK FOR EACH ALIGNMENT.

RULE 5
ALIGN WITH FEATURES SHOWN DIMENSIONED ELSEWHERE IN SPACE

LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).

RULE 6
LOCATE FEATURES SYMMETRICALLY

LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).

RULE 7
WHEN NOT DIMENSIONED BUT OCCURS ON A SQUARE GRID-TYPE CEILING

LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC.) AT CENTER OF PANEL ON SQUARE GRID-TYPE CEILINGS.

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

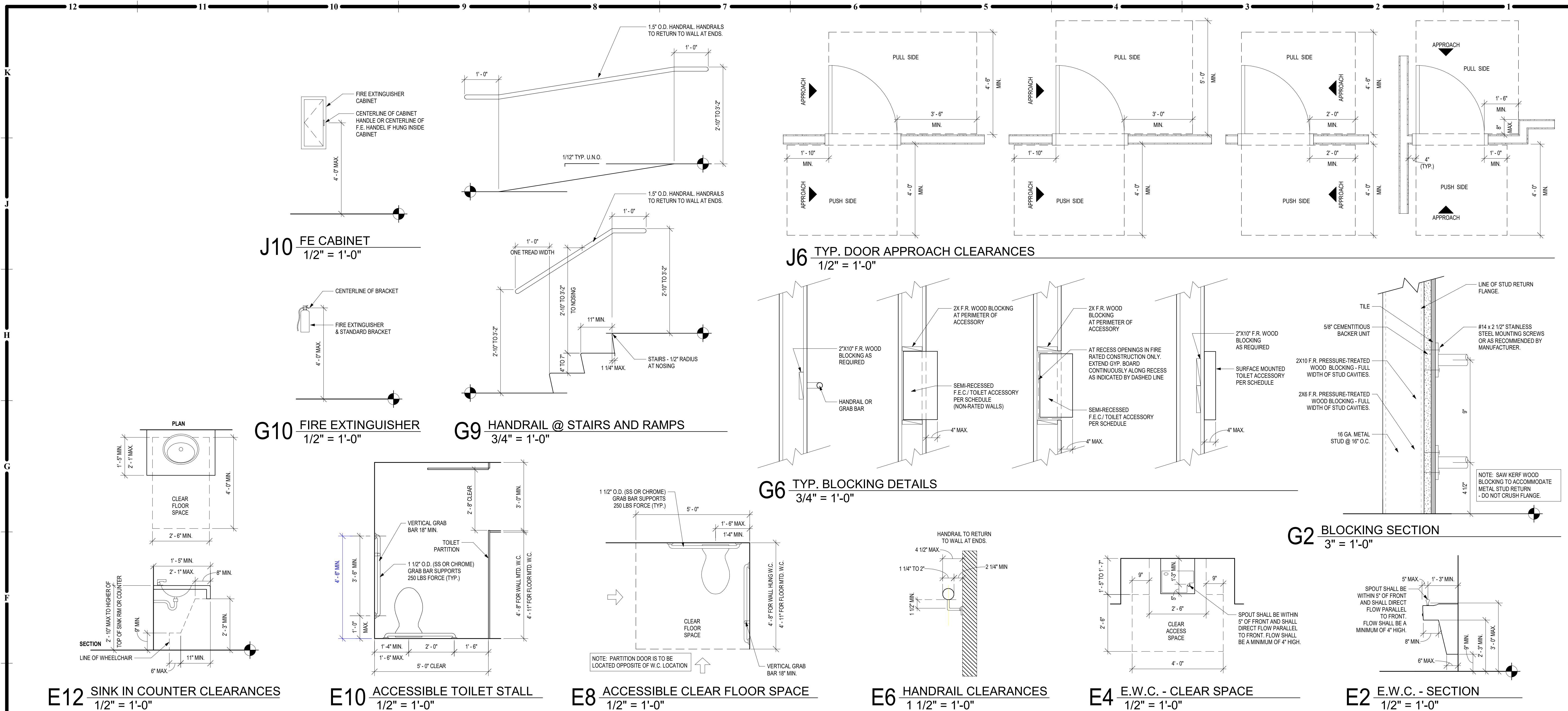
RULE 8
WHEN NOT DIMENSIONED BUT OCCURS ON A RECTANGULAR GRID-TYPE CEILING

LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC.) AT CENTER OF SHORT DIRECTION OF RECTANGULAR PANEL. LOCATE AT 1/4, 1/2, OR 3/4 POINT OF LONG DIRECTION OF RECTANGULAR PANEL.

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

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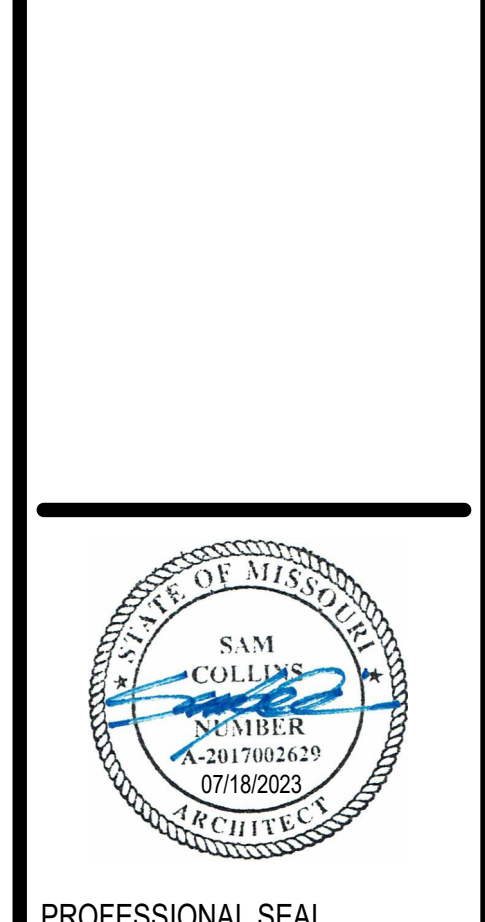
- GENERAL NOTES:**
ACCESSIBILITY GUIDELINES
- NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
 - ADA UNRESTRICTED REACH RANGES: ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
 - ELEVATORS: STANDARD CALL BUTTONS: 35" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 47" TO C.L. (TYP.) & 45" MAX. (3/4" SMALLEST DIM.). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM.). TACTILE SIGNAL ON HOISTWAY: 8" TO BASE OF CHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.
 - DOOR HARDWARE (TO CENTER OF HARDWARE): STANDARD MOUNTING HEIGHTS: PUSH PLATES = 42". PULL HANDLES = 42". KNOBS/LEVERS = 40". PANIC EXIT = 42". CENTERLINE OF BAR, KICKPLATES WIDTH = DOOR WIDTH MINUS 2". CENTER HEIGHT = 16" FROM B.O. DOOR. THRESHOLDS: STANDARD = 1/2" MAX. AT EXT. SLIDING DOORS = 3/4" MAX. ADA HARDWARE = 34" MIN. TO 48" MAX.
 - DRINKING FOUNTAINS & EWCS (TO SPOUT): STANDARD = 40" TYP. 42" MAX. ADA = 38" MAX. (27" MIN. CLEAR KNEE SPACE). COUNTERTOPS (TO SINK/RIM COUNTERTOP): ADA = 28" MIN. TO 34" MAX.
 - WATER CLOSETS (TO TOP OF SEAT): STANDARD = 14" TO 15". ADA (TO TOP OF SEAT) = 17" TO 19". ADA FLUSH CONTROLS = 44" MAX.
 - URINALS (TO RIM): STANDARD = 24" MAX. ADA = 17" MAX. ADA FLUSH CONTROLS = 44" MAX.
 - LAVATORIES (TO SINK/RIM COUNTERTOP): STANDARD = 36" MAX. ADA = 34" MAX. (29" MIN. CLEAR KNEE SPACE).
 - MIRRORS (TO B.O. REFLECTIVE SURFACE): STANDARD = VARIES. ADA = 40" MAX.
 - GRAB BARS - ADA (TO TOP OF BAR): WATER CLOSETS = 33" MIN. TO 36" MAX. SHOWERS = 33" MIN. TO 36" MAX. (FROM B.O. SHOWER). BATH TUBS: TOP SET = 33" MIN. TO 36" MAX. BOT. BAR = 9" ABOVE T.O. TUB.
 - SHOWER HEADS (FROM FLOOR TO HEAD): STANDARD = 72" TO 84". ADA = SPRAY UNIT W/ HOSE 80" LONG MIN. ADA FIXED SHOWER HEAD = 48" AFF.
 - SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 48" MAX. (TO TOP). ADA = 38" MIN. TO 48" MAX.
 - SHOWER ROD (FROM FLOOR TO C.L.): STANDARD = 78" MAX.
 - TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT. & 70" TO TOP. URINALS = 18" TO BOT. & 80" TO TOP.
 - TOILET PAPER DISPENSERS (TO C.L. OF OUTLET): STANDARD = 24". ADA = 19" MIN. TO 24" MAX.
 - WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STANDARD = 40". ADA = VARIES. RE. OBSTRUCTED AND UNRESTRICTED REACH RANGES. ADA SIDE REACH = 48" MAX. ABOVE SINK IN COUNTER.
 - PAPER TOWEL DISPENSER/WASTE RECEPTACLE (TO TOWEL SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
 - WARM AIR HAND DRYER (TO PUSH SWITCH): STANDARD = 44" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
 - 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.
 - SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STANDARD = 28" MAX. ADA = 19" MIN. TO 24" MAX. (TO OPEN).
 - TOILET SEAT COVER DISPENSERS (TO OPEN): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
 - SHelves: STANDARD = 48" MAX.
 - COAT HOOKS: STANDARD = 68" ADA = 48" MAX.
 - CHALKBOARDS, TACKBOARDS & MARKERBOARDS: STANDARD = 80" (RECOMMENDED TO T.O. BOARD).
 - THERMOSTATS & CONTROL DEVICES (TO TOP): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
 - EXIT LIGHTS - WALL MOUNTED: 2" MIN. BELOW CEILING. 2" MIN. ABOVE DOOR FRAME. EQUAL SPACE FROM CEILING TO TOP OF FRAME.
 - FIRE EXTINGUISHERS (TO TOP, U.N.O.): GROSS WT. 40 LBS. OR LESS = 80" MAX. GROSS WT. MORE THAN 40 LBS. = 42" MAX. ADA = 40" MAX. (B.O. CABINET).
 - FIRE ALARM PULL STATIONS (TO LEVER): STANDARD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX. HEIGHT.
 - SMOKE AND/OR HEAT DETECTORS: STANDARD = CEILING HEIGHT.
 - HORN/SPEAKER VISUAL SIGNALS: STANDARD = 80" AFF. OR 6" BELOW CEILING - WHICHEVER IS LOWER.
 - ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH AFF. & WITHIN 15" OF LATCH SIDE OF DOOR.



collinswebb ARCHITECTURE

LEOK OFFICE RENOVATION
 209 SE DOUGLAS
 LEE'S SUMMIT, MO 64063

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 REVISION DATES:



G002
 ISSUE DATE: JULY 17, 2023
 COLLINS WEBB #: 23033

ACCESSIBILITY GUIDELINES

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS															TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS														
<p>A11 TYP. MOUNTING HEIGHTS 1/4" = 1'-0"</p>																													

WALL PRIORITY LEGEND

NOTE: THIS LEGEND IS FOR GRAPHIC REPRESENTATION ONLY.

FOUR HOUR FIRE WALL (4FW)
THREE HOUR FIRE WALL (3FW)
TWO HOUR FIRE WALL (2FW)
FOUR HOUR FIRE BARRIER (4FB)
THREE HOUR FIRE BARRIER (3FB)

TWO HOUR FIRE BARRIER (2FB) (INCLUDES THE FOLLOWING)
• TWO HOUR SHAFT ENCLOSURE (2SE)
ONE HOUR FIRE BARRIER (1FB) (INCLUDES THE FOLLOWING)
• ONE HOUR SHAFT ENCLOSURE (1SE)

SMOKE TIGHT PARTITION (K) (INCLUDES THE FOLLOWING)
• SMOKE TIGHT PARTITION TO SMOKE TIGHT CEILING (KC)
• SMOKE TIGHT PARTITION WITHIN PLENUM ABOVE CEILING (XP)
• SMOKE TIGHT PARTITION SEPARATION OF INTERSTITIAL SPACES (XI)

DETAIL ABUTMENT OF DISSIMILAR WALL

INTERSECTION OF RATED WALLS

INTERSECTION OF RATED WALLS (Continued)

INTERSECTION OF RATED WALLS (Continued)

NOTES:
1. REFER TO WALL TYPES ON SHEET G121-T1 FOR WALL COMPONENTS, NUMBER OF GYPSUM BOARD LAYERS, TYPE OF GYPSUM BOARD, AND OTHER SIMILAR INFO.
2. THE HIGHER PRIORITY WALL SHALL PASS THROUGH THE LOWER PRIORITY WALL.
3. TAPING AND SEALING OF HIGHER PRIORITY WALLS SHALL BE CONTINUOUS.
4. ALTERNATE LAYERS OF GYPSUM BOARD SHALL OVERLAP AT CORNER INTERSECTIONS OF MULTI-LAYERED RATED GYPSUM BOARD PARTITIONS.

FIRE & SMOKE RESISTIVE DEFINITIONS

FIRE WALLS (FW)

DEFINITION: A FIRE RATED WALL THAT IS CONTINUOUS VERTICALLY FROM FOUNDATION TO ROOF TO SEPARATE CONSTRUCTION INTO SEPARATE BUILDINGS.

USE: FIRE WALLS SERVE TO CREATE SEPARATE BUILDINGS FOR THE FOLLOWING REASONS:
• CONSTRUCTION TYPE VARIES FROM ONE BUILDING TO ANOTHER.
• COMPLIANCE WITH MAXIMUM ALLOWABLE AREA REQUIREMENTS.
• TO SEPARATE BUILDINGS WITH DIFFERENT LEVELS OF FIRE PROTECTION.
• TO ADDRESS A PROPERTY LINE DEFINING DIFFERENT OWNERSHIP.

SPECIAL CONSIDERATIONS:
• THE FIRE WALL REQUIRES SUFFICIENT STRUCTURAL STABILITY UNDER FIRE CONDITIONS TO ALLOW THE COLLAPSE OF CONSTRUCTION ON EITHER SIDE WITHOUT COLLAPSE OF THE WALL.
• OPENINGS ARE REQUIRED TO BE PROTECTED.
• OPENINGS ARE LIMITED BASED ON A PERCENTAGE OF WALL LENGTH.
• EXTENDING THE FIRE WALL THROUGH THE ROOF WITH A PARAPET IS REQUIRED FOR SOME CONSTRUCTION CLASSIFICATIONS.
• THE REQUIRED FIRE RATING OF A FIRE WALL IS BASED ON OCCUPANCY GROUPS AND CLASS OF CONSTRUCTION.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH AND CLOSER.

FIRE PARTITIONS (FP)

DEFINITION: A FIRE RATED PARTITION THAT IS USED FOR THE APPLICATIONS LISTED BELOW. IT SHALL BE CONTINUOUS FROM TOP OF FLOOR TO UNDERSIDE OF A FIRE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY, WHERE ALLOWED BY CODE. EXCEPTION: A FIRE PARTITION SHALL BE ALLOWED TO TERMINATE AT THE UPPER MEMBRANE OF A FIRE RATED CEILING.

USE: FIRE PARTITIONS ARE USED IN CERTAIN OCCUPANCIES TO DO THE FOLLOWING:
• SEPARATE DWELLING UNITS.
• SEPARATE SLEEPING SPACES.
• SEPARATE CORRIDORS FROM ADJACENT SPACES.
• SEPARATE ELEVATOR LOBBIES.
• SEPARATE TENANT SPACES IN COVERED MALL BUILDINGS.

SPECIAL CONSIDERATIONS:
• OPENINGS ARE REQUIRED TO BE PROTECTED.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH AND CLOSER.

BEARING WALLS (BW)

DEFINITION: AN INTERIOR OR EXTERIOR WALL DESIGNED TO SUPPORT FLOOR OR ROOF LOADS. A BEARING WALL IS FIRE-RATED ONLY TO MAINTAIN THE INTEGRITY OF ITSELF AS A FIRE RATED STRUCTURAL ELEMENT. THE WALL DOES NOT SERVE AS A FIRE SEPARATION FROM ONE SIDE TO THE OTHER SIDE.

USE: A VERTICAL LOAD BEARING STRUCTURAL ELEMENT.

SPECIAL CONSIDERATIONS:
• DOORS AND WINDOWS ARE NOT REQUIRED TO BE RATED.
• HVAC DUCT PENETRATIONS ARE NOT REQUIRED TO BE FIRE-DAMPENED.
• PLUMBING ELECTRICAL SPRINKLER SYSTEM AND CABLE PENETRATIONS ARE REQUIRED TO BE FIRE-STOPPED WITH FIRE SEALANT AT BOTH SIDES, FOR WALLS CONSTRUCTED OF HOLLOW CMU OR STUD FRAMING.

FIRE BARRIERS (FB)

DEFINITION: A FIRE RATED WALL CONSTRUCTED TO RESTRICT THE SPREAD OF FIRE CONTINUITY SHALL BE MAINTAINED FROM TOP OF FLOOR TO UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE.

USE: FIRE BARRIERS HAVE THE FOLLOWING APPLICATIONS:
• TO CREATE HORIZONTAL EXITS.
• TO SEPARATE EXIT PASSAGEWAYS.
• OCCUPANCY SEPARATIONS.
• TO SEPARATE INCIDENTAL USE AREAS.
• ISOLATION OF HAZARDOUS.
• TO SEPARATE ROOMS WITH DIFFERENT LEVELS OF FIRE PROTECTION.
• SMOKE BARRIERS AND SHAFT ENCLOSURES ARE FIRE BARRIERS. SEE ADDITIONAL REQUIREMENTS.

SPECIAL CONSIDERATIONS:
• WITHIN SOME CONSTRUCTION CLASSIFICATIONS, CONSTRUCTION THAT PROVIDES STRUCTURAL SUPPORT OF A FIRE BARRIER IS REQUIRED TO BE OF THE SAME HOURLY FIRE RATING AS THE FIRE BARRIER, OR BETTER.
• OPENINGS ARE REQUIRED TO BE PROTECTED.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH AND CLOSER.

SHAFT ENCLOSURES (SE)

DEFINITION: A SHAFT ENCLOSURE IS A FIRE BARRIER FORMING THE BOUNDARY OF A VERTICAL SHAFT.

USE: PROTECT OPENINGS IN FIRE RATED FLOOR/CEILING ASSEMBLIES.

SPECIAL CONSIDERATIONS:
• PENETRATIONS IN SHAFT ENCLOSURES ARE PROHIBITED UNLESS NECESSARY FOR THE FUNCTION OF THE SHAFT, WHERE ALLOWED, OPENINGS ARE REQUIRED TO BE PROTECTED.
• DUCT PENETRATIONS REQUIRE COMBINATION SMOKE AND FIRE DAMPERS EXCEPT FOR EXISTING CONDITIONS THAT ARE GRANDFATHERED.
• HARDWARE FOR SWING DOORS SHALL INCLUDE A LATCH, CLOSER, AND PERIMETER SMOKE SEALS.

GENERAL NOTES

- THE FOLLOWING INFORMATION SERVES TO PROVIDE BUILDING OWNERS WITH CONCISE DEFINITIONS OF WALL TYPES RELATED TO LIFE SAFETY ISSUES. THIS INFORMATION IS NOT MEANT TO BE A SUBSTITUTE FOR APPLICABLE BUILDING CODES.
- WHEN A WALL HAS MORE THAN ONE CLASSIFICATION, THE MOST RESTRICTIVE REQUIREMENTS FOR EACH CLASSIFICATION SHALL APPLY.
- FOR NEW CONSTRUCTION, PERIMETER SMOKE-SEALS MAY BE REQUIRED AT FIRE RATED DOORS IN CERTAIN OCCUPANCIES.

GENERAL DESCRIPTION

PROJECT NAME: LEOK OFFICE RENOVATION
PROJECT LOCATION: 209 SE DOUGLAS, LEE'S SUMMIT, MO 64063
COUNTY: JACKSON
COLLINS WEBB ARCHITECTURE
3078 SW MARKET STREET
LEES SUMMIT, MISSOURI 64063

APPLICABLE CODES:
INTERNATIONAL BUILDING CODE - 2018 ED.
INTERNATIONAL EXISTING BUILDING CODE - 2018 ED.
INTERNATIONAL MECHANICAL CODE - 2018 ED.
INTERNATIONAL PLUMBING CODE - 2018 ED.
INTERNATIONAL FUEL GAS CODE - 2018 ED.
INTERNATIONAL FIRE CODE - 2018 ED.
NATIONAL ELECTRICAL CODE - 2017 ED.
ADA STANDARDS FOR ACCESSIBLE DESIGN - 2010 ED.
ICC/ANSI A117.1 - 2009 ACCESSIBILITY AND USABILITY CODE

CODE INFORMATION

BUILDING/PROJECT USE	BUSINESS	TABLE/SECTION/REFERENCE
CONSTRUCTION TYPE	TYPE VB - EXISTING, NON-SPRINKLERED	IBC SECTION 303
OCCUPANCY CLASSIFICATION	GROUP "B" BUSINESS	IBC TABLE 601
BUILDING FRAME	METAL COLUMNS / BEAMS, WOOD JOISTS FOR ROOF FRAME	IBC SECTION 303

ACTUAL TENANT AREA (GROSS)	2,014 SQ. FT.	IBC TABLE 504.4
ACTUAL NUMBER OF STORIES	1 STORY - EXISTING	IBC TABLE 504.4
ACTUAL HEIGHT IN FEET	EXISTING	IBC TABLE 504.3

FIRE RESISTIVE REQUIREMENTS

PRIMARY FRAME	0 HRS	IBC TABLE 601
NON-BEARING WALLS	0 HRS	IBC TABLE 601
BEARING WALLS INT./EXT.	0 INT./0 EXT. HRS	IBC TABLE 601
FLOOR CONSTRUCTION	0 HRS	IBC TABLE 601
CEILING/ROOF	0 HRS	IBC TABLE 601
CORRIDORS	0 HRS	IBC TABLE 1018

FIRE EXTINGUISHERS

- PROVIDE PORTABLE FIRE EXTINGUISHERS IN OCCUPANCIES AND LOCATIONS AS REQUIRED BY THE LOCAL FIRE PREVENTION CODE. SEE PLANS FOR SUGGESTED LOCATIONS. NOTIFY ARCHITECT OF ANY PROPOSED RELOCATION OR IF A CONFLICT IS ENCOUNTERED.
- PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH 2018 IFC 906.2 AND NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.

CEILING HEIGHT NOTES: (IBC 1208)

- ALL MEANS OF EGRESS TO HAVE A MINIMUM CEILING HEIGHT OF 7'-6" A.F.F. NOR SHALL HAVE ANY PROJECTION FROM THE CEILING BE LESS THAN 6"-8" A.F.F.
- OCCUPIED SPACES, HABITABLE SPACES AND CORRIDORS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-6" A.F.F.
- BATHROOMS, TOILET ROOMS, KITCHENS, STORAGE ROOMS AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0" A.F.F.

INTERIOR FINISHES

GROUP A	MAX. FLAME SPREAD	
EXIT ENCLOSURES	CLASS A (0-25)	803.9 IBC
LOBBIES & CORRIDORS	CLASS B (26-75)	803.9 IBC
ALL OTHER SPACES	CLASS C (76-200)	803.9 IBC
TEXTILES	CLASS C (76-200)	IBC 803.1.3 & 803.1.4
SMOKE DEVELOPED	0-450	TABLE/SECTION/REFERENCE

NOTE: DECORATIVE MATERIALS AND TRIM (INCLUDING PLASTICS) MUST COMPLY WITH IBC SECTION 806.

GENERAL EXITING REQUIREMENTS

EXIT TRAVEL DISTANCE	250 FEET	SECTION 12.2.6.2
DEAD END CORRIDOR	20 FEET	SECTION 12.2.2.5.1.3
COMMON PATH OF TRAVEL	20 FEET, OR 75' IF OCC. < 50	SECTION 12.2.2.1.2
MIN. CORRIDOR WIDTH	44", OR 36" IF OCC. < 50	SECTION 12.2.3.8

POSTING OF OCCUPANT LOAD

EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.

EXIT REQUIREMENTS

A. REQUIRED CAPACITY
1. STAIRS - 0.37 / PERSON
2. OTHER COMPONENTS - 0.27 / PERSON
3. OTHER COMPONENTS WITHIN THEATER ROOMS - 0.22" / PERSON

B. MINIMUM NUMBER
1. OCCUPANT LOAD OF 1-500 PERSONS - 2 EXITS PER STORY
2. OCCUPANT LOAD OF 501-1000 PERSONS - 3 EXITS PER STORY
3. OCCUPANT LOAD OF MORE THAN 1000 PERSONS - 4 EXITS PER STORY

SIGNAGE

- STAIR TACTILE AND BRAILLE SIGNAGE ON EACH FLOOR FOR EXIT STAIRWELL, FLOOR DISCHARGE, AND ROOF TOP ACCESS IN ACCORDANCE WITH (ICC A117.1)
- PROVIDE SIGNAGE IN THE EMERGENCY DO NOT USE ELEVATORS TO USE EXIT STAIRS IN ACCORDANCE WITH IBC (3002.3)
- EVACUATION DIAGRAM PROVIDED IN ACCORDANCE WITH (IBC 907.3)

OCCUPANT LOAD

OCCUPANT LOAD - LEVEL 1		
OFFICE	14 OCC	150 SF/OCC GROSS (2,014 SF BUSINESS)
TOTAL OCCUPANT LOAD	14 OCCUPANTS	

EXITS REQUIRED: 2 EXITS
EXITS PROVIDED: 2 EXITS

PLUMBING FIXTURE REQUIREMENTS

IBC TABLE 2902.1

B OCC WATER CLOSETS	= 1/25
B OCC LAVATOIRES	= 1/40
B OCC DRINKING FOUNTAIN	= 1/100
B OCC SERVICE SINK	= 1

PLUMBING FIXTURES REQUIRED
WATER CLOSETS: 14/25 = 1 REQUIRED
LAVATOIRES: 14/40 = 1 REQUIRED
DRINKING FOUNTAINS: 14/100 = 1 REQUIRED
SERVICE SINKS: = 1 REQUIRED

PLUMBING FIXTURES PROVIDED
WATER CLOSETS: = 2 PROVIDED
LAVATOIRES: = 2 PROVIDED
DRINKING FOUNTAINS: = 0 PROVIDED (BOTTLED WATER AND KITCHENETTE WITH SINK ARE PROVIDED)
SERVICE SINKS: = 1 PROVIDED

FIRE RESISTIVE LEGEND

3FW	3FW	3FW	3FW	3 HOUR FIRE WALL
2FW	2FW	2FW	2FW	2 HOUR FIRE WALL
2FB	2FB	2FB	2FB	2 HOUR FIRE BARRIER
1FB	1FB	1FB	1FB	1 HOUR FIRE BARRIER
2S	2S	2S	2S	2 HOUR SHAFT ENCLOSURE
1SE	1SE	1SE	1SE	1 HOUR SHAFT ENCLOSURE
1FP	1FP	1FP	1FP	1 HOUR FIRE PARTITION
0.5FP	0.5FP	0.5FP	0.5FP	0.5 HOUR FIRE PARTITION
0.5X	0.5X	0.5X	0.5X	0.5 HOUR CORRIDOR PARTITION
SB	SB	SB	SB	1 HOUR SMOKE BARRIER
2BW	2BW	2BW	2BW	2 HOUR BEARING WALL
1BW	1BW	1BW	1BW	1 HOUR BEARING WALL

DESCRIPT:
NUMBER OF OCCUPANTS EXITING
EXIT WIDTH PROVIDED (IN.)
NUMBER OF OCCUPANTS EXITING
CALCULATED EXIT WIDTH REQ'D (IN.)
EXIT WIDTH PROVIDED (IN.)
MIN. WIDTH OF MEANS OF EGRESS COMPONENT (IN.)

FROM ROOM OR LEVEL
X = CLEAR WIDTH OF OPENING IN INCHES

F.E.C. FIRE RISER CABINET
F.A.C.P. FIRE ALARM CONTROL PANEL
F.D.C. FIRE DEPARTMENT CONNECTION
K.B. KNOX BOX
AR AREA OF RESCUE ASSISTANCE
ACCESSIBLE EGRESS COMPONENT

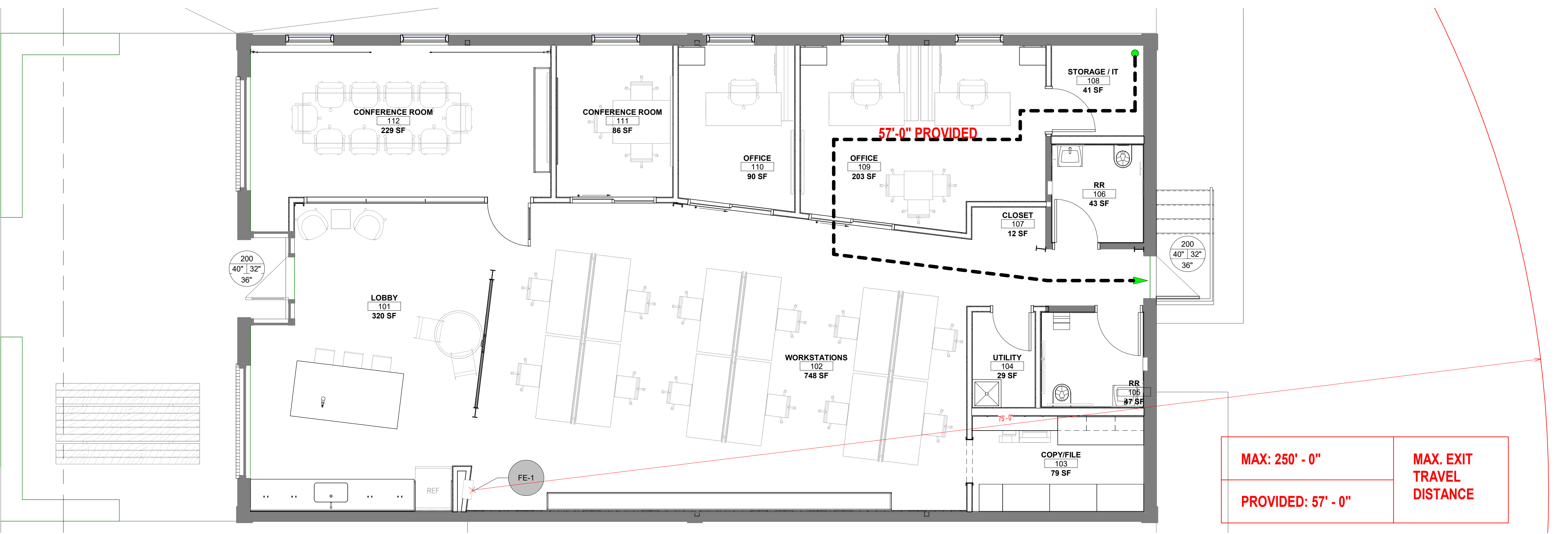
EGRESS PATH
FE-1 INDICATES FIRE EXTINGUISHER CABINET (FE) LOCATION WITH 75'-0" RADIUS COVERAGE AREA. TYPE 2A/10B/C FIRE EXTINGUISHER

DOOR RATING LEGEND (REFER TO DOOR SCHEDULE)

20 MIN. DOOR
45 MIN. DOOR
90 MIN. DOOR



D12 SITE PLAN
1/64" = 1'-0"



A10 1ST FLOOR - LIFE SAFETY
1/4" = 1'-0"

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PROFESSIONAL SEAL
 G003
 ISSUE DATE: JULY 17, 2023
 COLLINS WEBB #: 23033

LIFE SAFETY PLANS AND
 PROJECT INFO.

- ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.
- DESIGN LOADS
 - OVERALL BUILDING CLASSIFICATIONS

1. RISK CATEGORY	II
2. SNOW IMPORTANCE FACTOR, I_s	1.00
3. ICE IMPORTANCE FACTOR - WIND, I_w	1.00
4. SEISMIC IMPORTANCE FACTOR, I_e	1.00
 - SLAB ON GRADE FLOOR LOADS

1. LIVE LOAD	100 PSF
2. CONCENTRATED LOAD	3000 LB ACTING ON AN AREA 4.5 IN. BY 4.5 IN.
 - ROOF DEAD AND LIVE LOADS

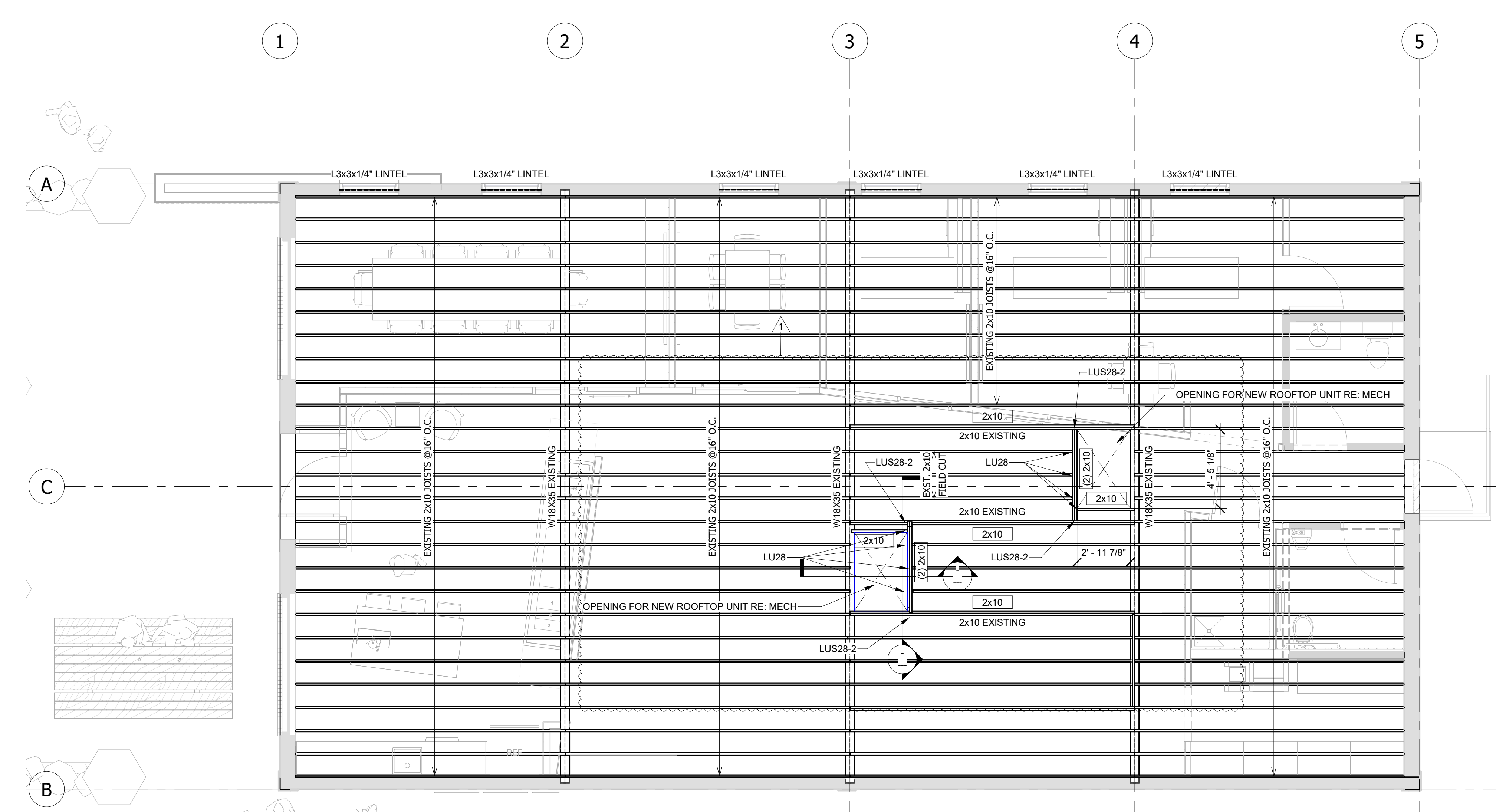
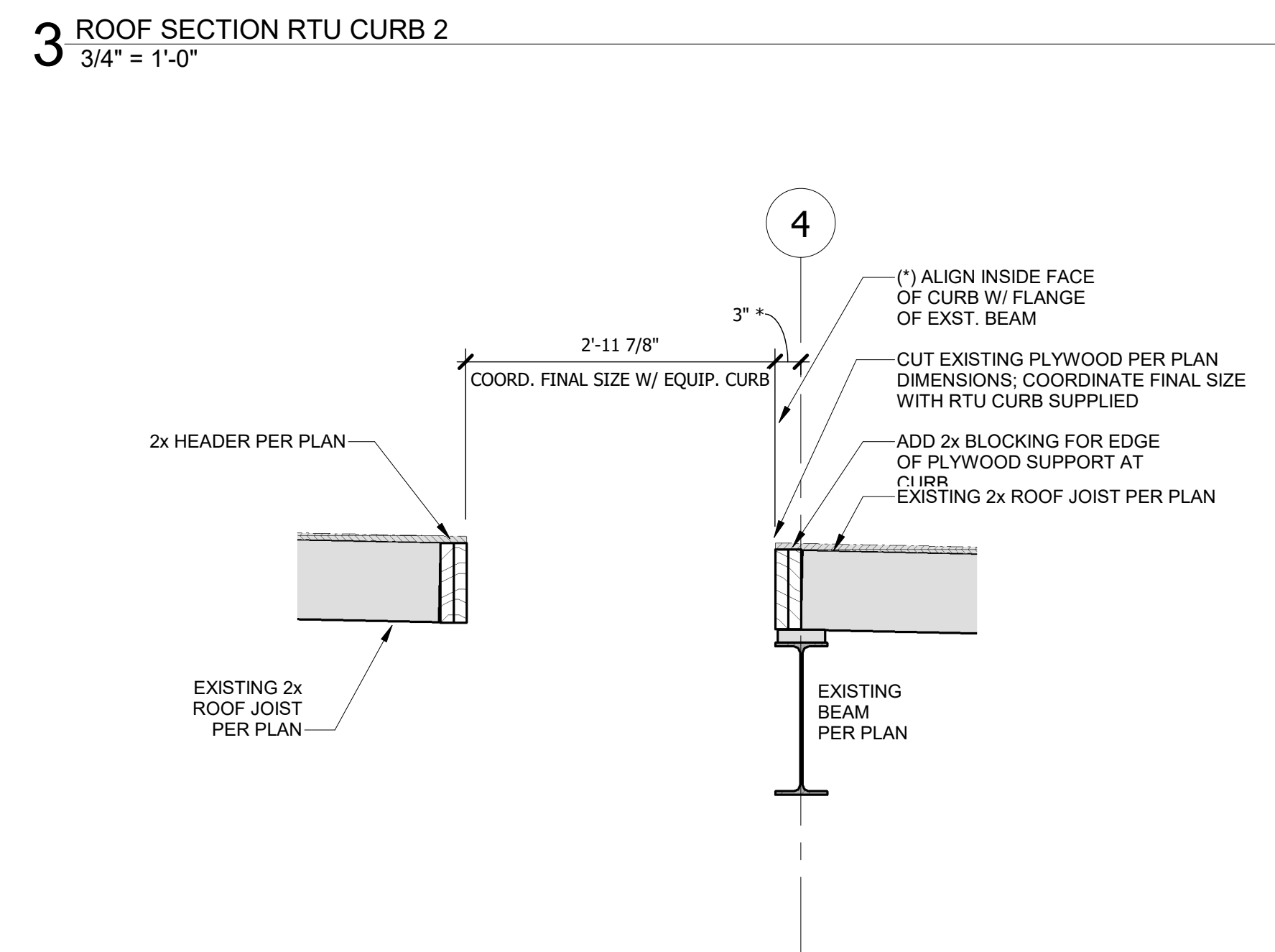
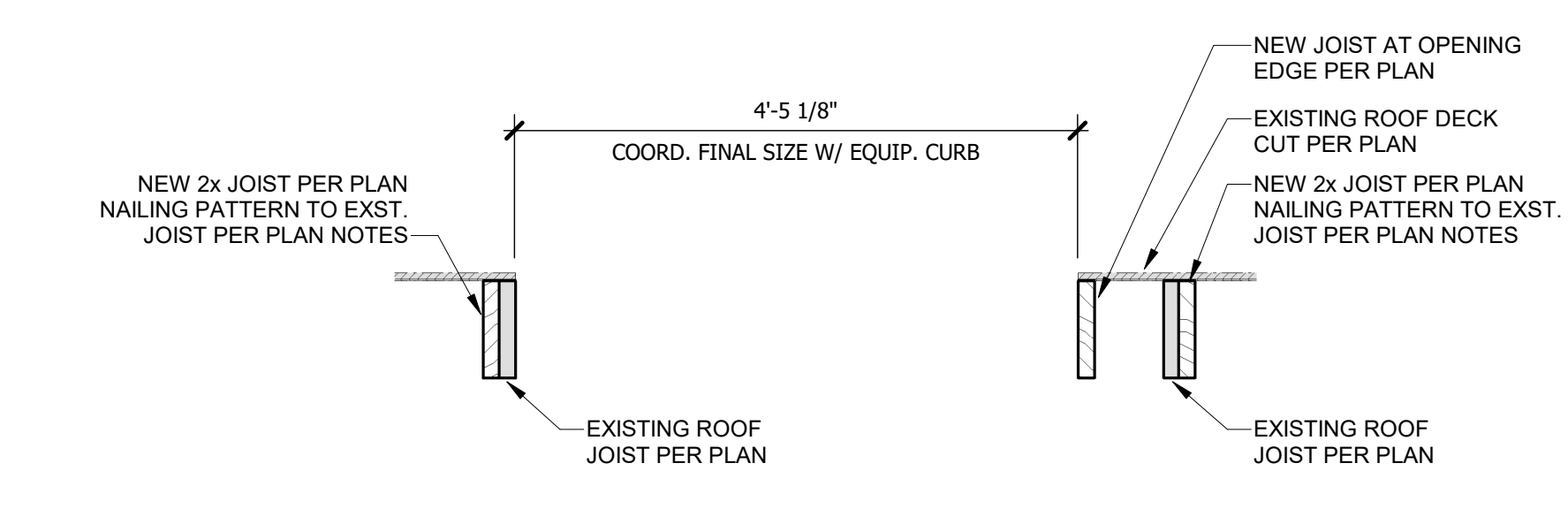
1. DEAD LOAD TOP CHORD	10 PSF
2. DEAD LOAD BOT. CHORD	5 PSF
3. LIVE LOAD TOP CHORD	20 PSF
4. LIVE LOAD BOT. CHORD	0 PSF (U.N.O.)
 - ROOF SNOW LOADS

1. GROUND SNOW LOAD, P_g	20 PSF
2. FLAT ROOF SNOW LOAD, P_f	12.6 PSF
3. SNOW EXPOSURE FACTOR, C_e	0.9
4. THERMAL FACTOR, C_t	1.2
5. SLOPE FACTOR, C_s	0.6
6. DRIFTING	PER CODE
7. MIN ROOF DESIGN SNOW LOAD W/ RAIN	25 PSF
 - WIND LOADS

1. BASIC WIND SPEED (3 SECOND GUST)	107 MPH
2. EXPOSURE CATEGORY	C
3. INTERNAL PRESSURE COEFFICIENT, GCF	+/- 0.18
4. COMPONENTS AND CLADDING PER ASCE 7-16.	
 - SEISMIC LOADS

1. S_s	0.189
2. S_1	0.105
3. SITE CLASS	C
4. S_{ps}	0.164
5. S_{ol}	0.105
6. SEISMIC DESIGN CATEGORY	B
7. SEISMIC FORCE RESISTING SYSTEM	WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR
 - DESIGN BASE SHEAR
 - DESIGN RESPONSE COEFFICIENT, C_d
 - RESPONSE MODIFICATION COEFFICIENT, R
 - ANALYSIS PROCEDURE USED
- ROOF RAIN LOADS

1. 60-MIN DURATION/100 YEAR RAIN INTENSITY, i	3.20 IN/HR
2. 15-MIN DURATION/100 YEAR RAIN INTENSITY, i	7.58 IN/HR

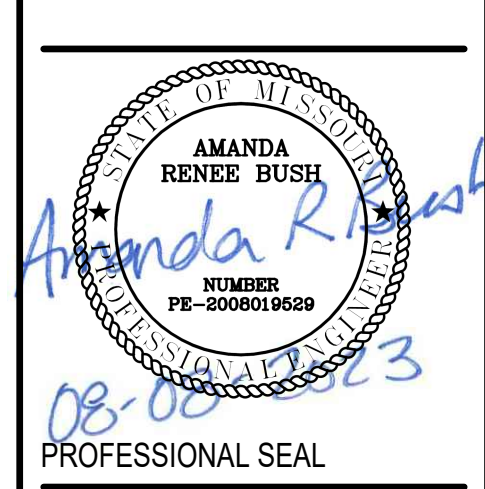


- GENERAL NOTES: ROOF PLAN**
- ALL NEW WOOD FRAMING TO BE SPF #2 OR BETTER WITH THE FOLLOWING DESIGN PROPERTIES:
 - $F_b = 875$ PSI
 - $F_v = 135$ PSI
 - $F_c = 1150$ PSI
 - $E = 1400$ KSI
 - LUS28-2 FASTENERS AS FOLLOWS:
 - FACE FASTENERS - (6) 0.148x 3
 - JOIST FASTENERS - (3) 0.148x 3
 - LU28 FASTENERS AS FOLLOWS:
 - FACE FASTENERS - (6) 0.148 x 3
 - JOIST FASTENERS - (6) 0.148 x 1.5
 - ALL WOOD FRAMING MEMBERS INDICATED ARE NOMINAL SIZES. PROVIDE ACTUAL DRESSED SIZES, KILN-DRIED, WITH MAXIMUM IN-PLACE MOISTURE CONTENT OF 12%.
 - FASTENER QUALITY, QUANTITY, SIZE, AND SPACING SHALL COMPLY WITH IBC FASTENING SCHEDULE (TABLE 2304.10.1) UNLESS NOTED OTHERWISE.
 - ALL STEEL LINTELS INDICATED SHALL BE HOT-DIPPED GALV. AND SHOP PAINTED BLACK. LENGTH OF LINTEL TO BE OPENING SIZE + 4".
 - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION.
 - IF DISCREPANCIES EXIST BETWEEN CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF RECORD.
 - THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.



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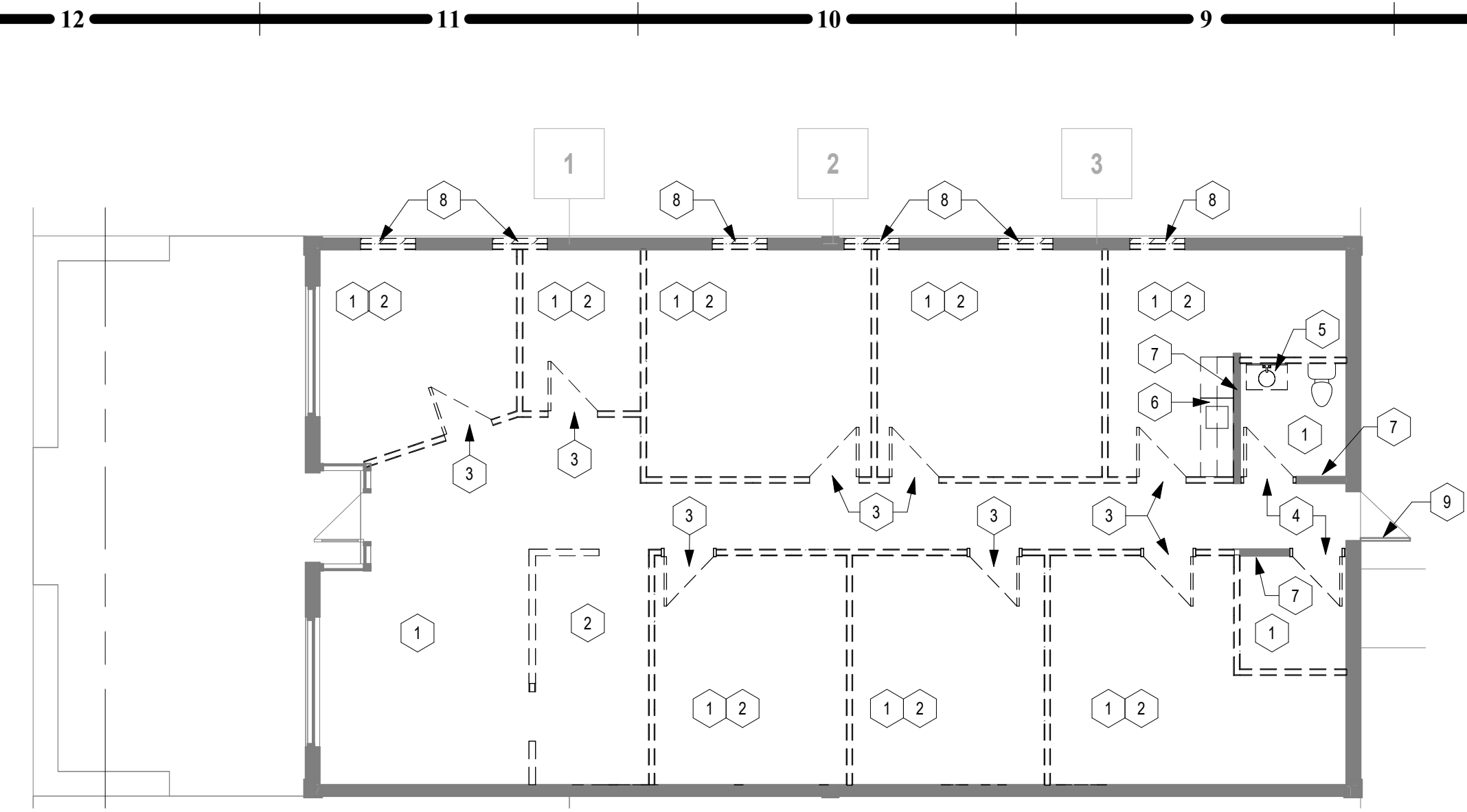
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ROOF PLAN/DETAILS

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PERMIT DRAWINGS

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A12 1ST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

**KEYED NOTES:
DEMO FLOOR PLAN**

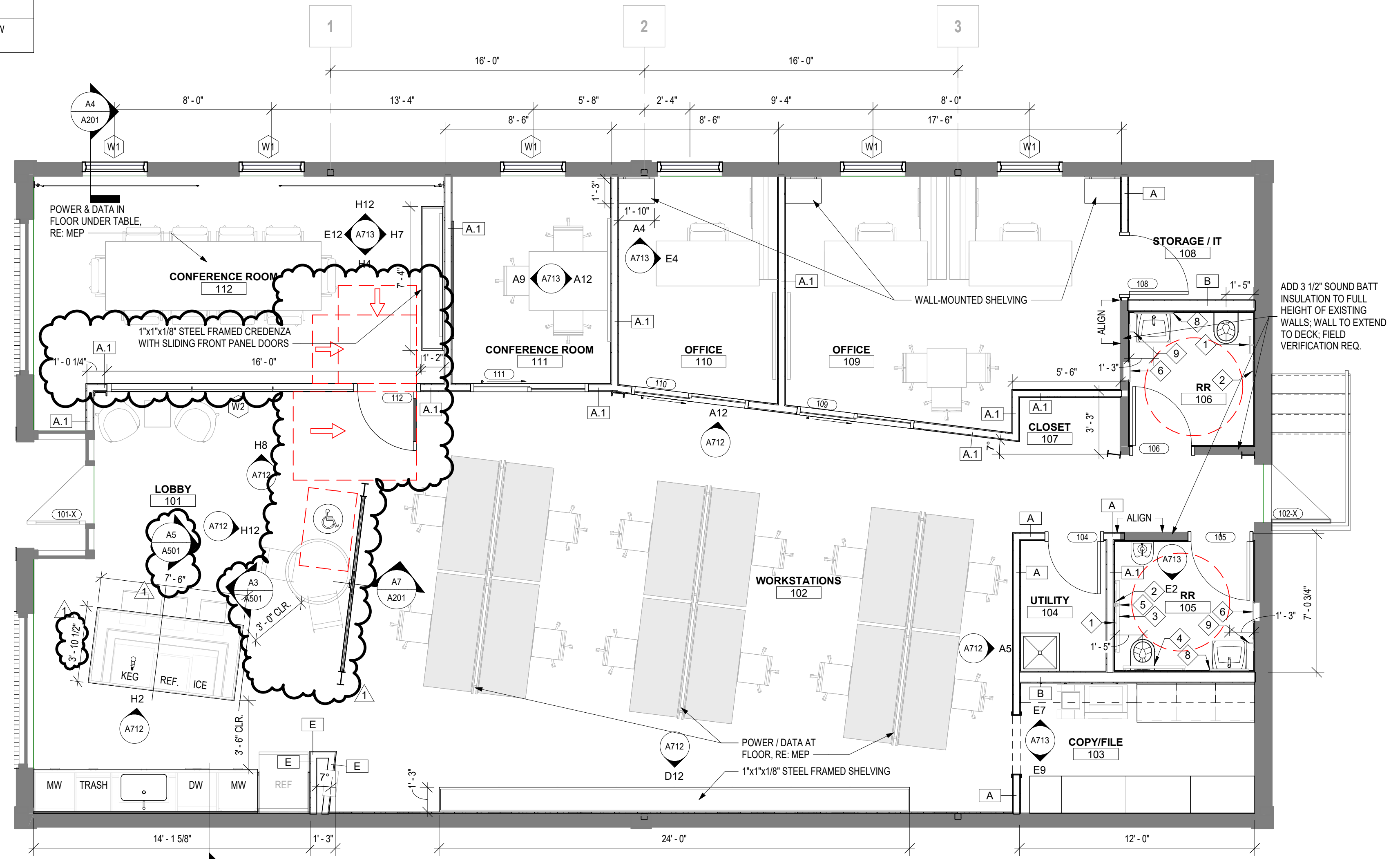
- REMOVE EXISTING FLOOR FINISH. PREPARE EXISTING SLAB FOR NEW FINISHES AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.
- REMOVE ALL WALLS / CEILINGS / INTERIOR FINISHES THIS LOCATION. PREPARE EXISTING STRUCTURE FOR NEW FINISHES AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.
- REMOVE INTERIOR DOOR, FRAME AND HARDWARE.
- REMOVE INTERIOR DOOR, EXISTING FRAME TO REMAIN.
- REMOVE EXISTING LAVATORY AND CASEWORK. PREPARE FOR NEW FIXTURE.
- REMOVE EXISTING PLUMBING FIXTURES, EQUIPMENT AND CASEWORK. CAP EXISTING PLUMBING DRAINS.
- EXISTING WALL TO REMAIN
- NEW WINDOW OPENINGS, RE: PLANS AND ELEVATIONS FOR LOCATIONS AND R.O.
- EXISTING DOOR TO REMAIN. PREPARE FOR NEW FINISHES, RE: DOOR SCHEDULE.

ACCESSORY SCHEDULE

TYPE MARK	MANUFACTURER	DESCRIPTION	MODEL	FINISH	REMARKS
1	BOBRICK WASHROOM EQUIPMENT, INC.	SURFACE-MOUNTED DOUBLE TOILET ROLL HOLDER, FINO COLLECTION	B-9547	MATTE BLACK	3
2	BOBRICK WASHROOM EQUIPMENT, INC.	RECESSED SANITARY NAPKIN DISPOSAL, TRIM LINE SERIES	B-35303	MATTE BLACK	4
3	BOBRICK WASHROOM EQUIPMENT, INC.	42" GRAB BAR, 1 1/2" (38mm) DIA. WITH CONCEALED FLANGE, FINO COLLECTION	B-9806-42	MATTE BLACK	3
4	BOBRICK WASHROOM EQUIPMENT, INC.	36" GRAB BAR, 1 1/2" (38mm) DIA. WITH CONCEALED FLANGE, FINO COLLECTION	B-9806-36	MATTE BLACK	3
5	BOBRICK WASHROOM EQUIPMENT, INC.	18" GRAB BAR, 1 1/2" (38mm) DIA. WITH CONCEALED FLANGE, FINO COLLECTION	B-9806-18	MATTE BLACK	3
6	BOBRICK WASHROOM EQUIPMENT, INC.	RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE, TRIM LINE SERIES	B-39603	MATTE BLACK	4
8	BOBRICK WASHROOM EQUIPMENT, INC.	WELDED-FRAME MIRROR - 24" W X 48" H	B-290 2448	MATTE BLACK	3, 5
9	BOBRICK WASHROOM EQUIPMENT, INC.	RECESSED SOAP DISPENSER, TRIM LINE SERIES	B-306	MATTE BLACK	4

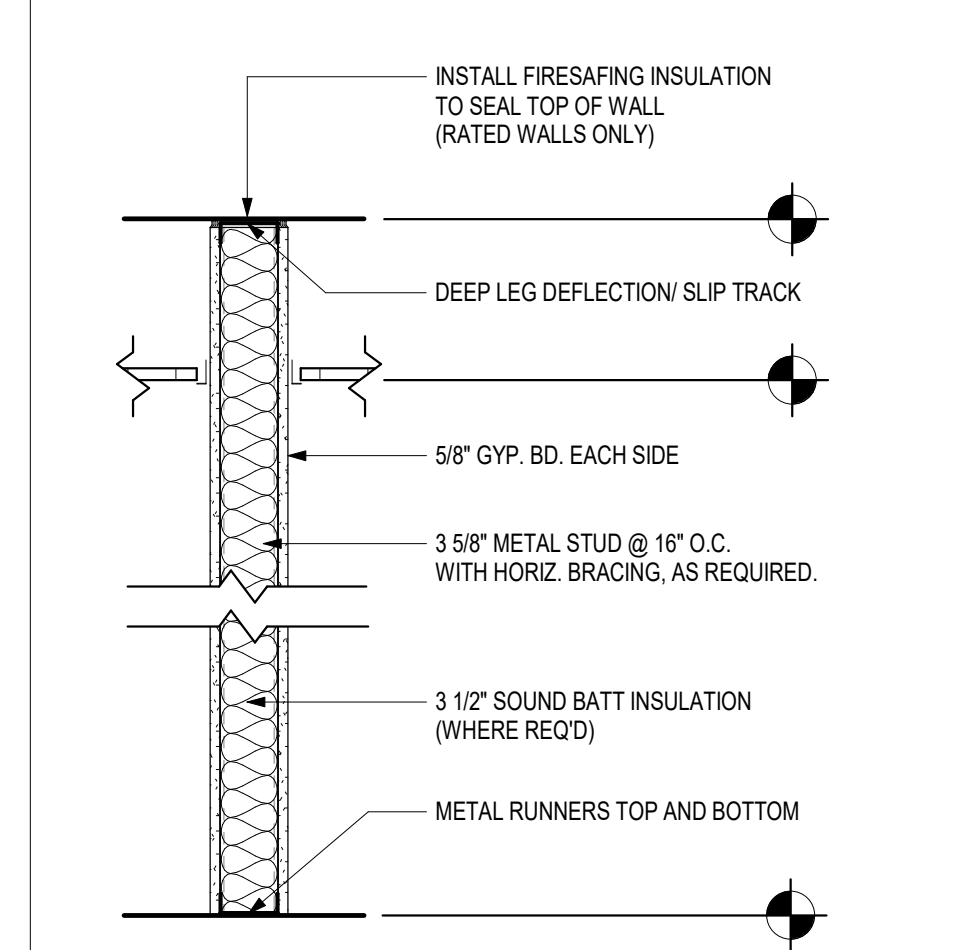
GENERAL NOTES:
 A. ALL TOILET ACCESSORY LOCATIONS BASED ON FLOOR PLAN LAYOUT.
 B. REFER TO INTERIOR ELEVATIONS FOR ANY ACCESSORIES THAT MAY NOT SHOW UP ON THE PLANS.
 C. REFER TO G.C. AND MANUFACTURER'S SPECIFICATIONS FOR MOUNTING HEIGHTS.
 D. COORDINATE ALL MOUNTING HEIGHTS W/ PLUMBING FIXTURES TO ALLOW PROPER OPERATION & INFORM ARCHITECT IN WRITING OF ANY CONFLICTS.
 E. S.C. TO VERIFY DIRECTLY W/ OWNER TO DETERMINE MOUNTING HEIGHTS, U.N.O.
 F. REFER TO PLANS AND ELEVATIONS FOR ITEMS NOTED AS FF&E.

REMARKS:
 1. OWNER FURNISHED, OWNER INSTALLED.
 2. FF&E ITEM - OWNER FURNISHED, CONTRACTOR INSTALLED. REFER TO PLANS AND ELEVATIONS FOR FURTHER CLARIFICATION.
 3. SURFACE MOUNTED.
 4. RECESSED.
 5. MIRRORS TO BE CENTERED AT SINKS, TYP.



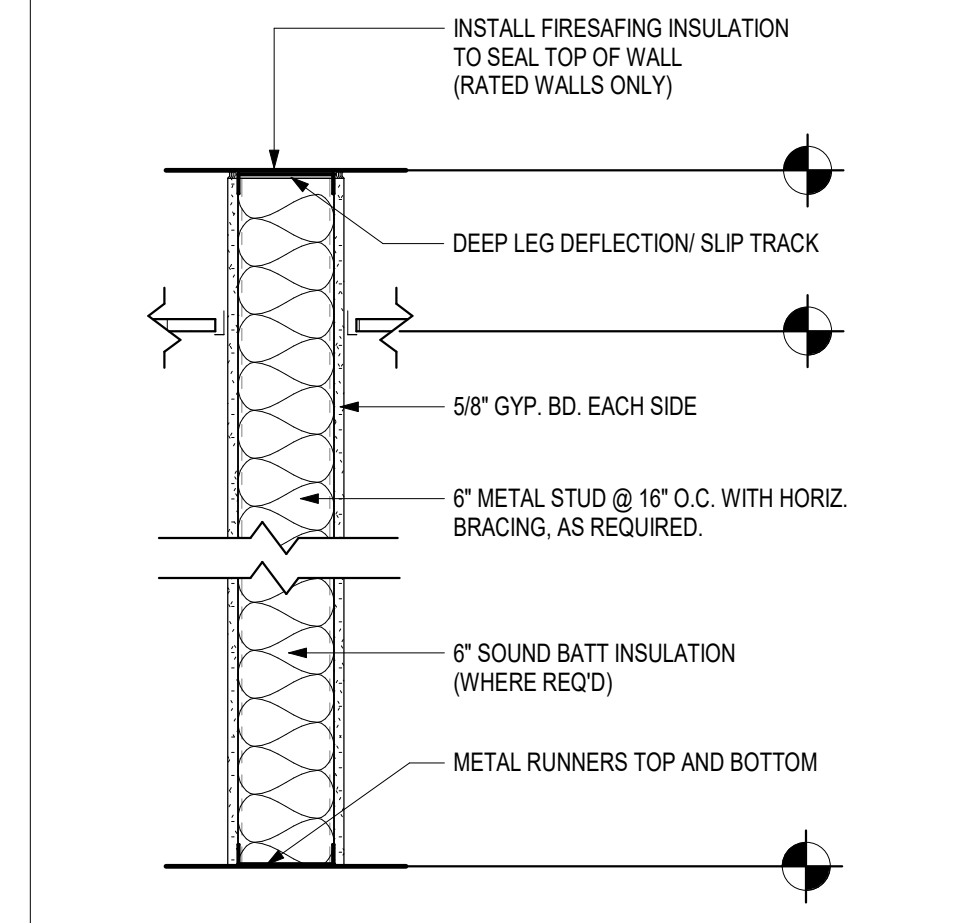
E7 1ST FLOOR PLAN
1/4" = 1'-0"

GENERAL STEEL NOTE:
 ALL NEW STEEL W-SECTIONS, C-CHANNELS, 1x SQUARE TUBE, AND PERFORATED METAL PANELS WILL BE OWNER-PROVIDED, INCLUDING STEEL FRAMING FOR ALL CASEWORK AND MILLWORK; CASEWORK AND MILLWORK PANELS, HARDWARE, AND INSTALLATION ARE G.C. SCOPE.



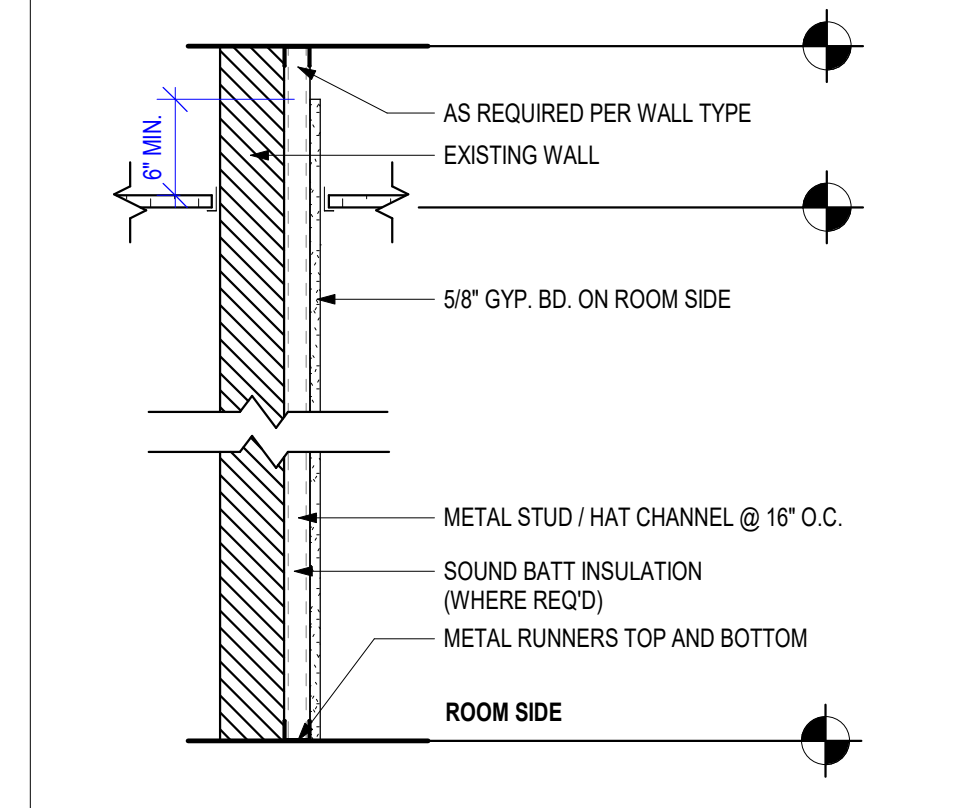
WALL TYPE A

TYPE	WALL DESCRIPTION
A	<ul style="list-style-type: none"> 3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 5/8" TYPE "X" GYP. BD. EACH SIDE TO DECK ABOVE NO SOUND BATT INSUL. NON RATED
A.1	<ul style="list-style-type: none"> 3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 5/8" TYPE "X" GYP. BD. EACH SIDE TO DECK ABOVE 3 1/2" SOUND BATT INSUL. TO FULL HEIGHT OF WALL ACOUSTICAL SEALANT AT FLOOR, DECK, & ALL PENETRATIONS NON RATED



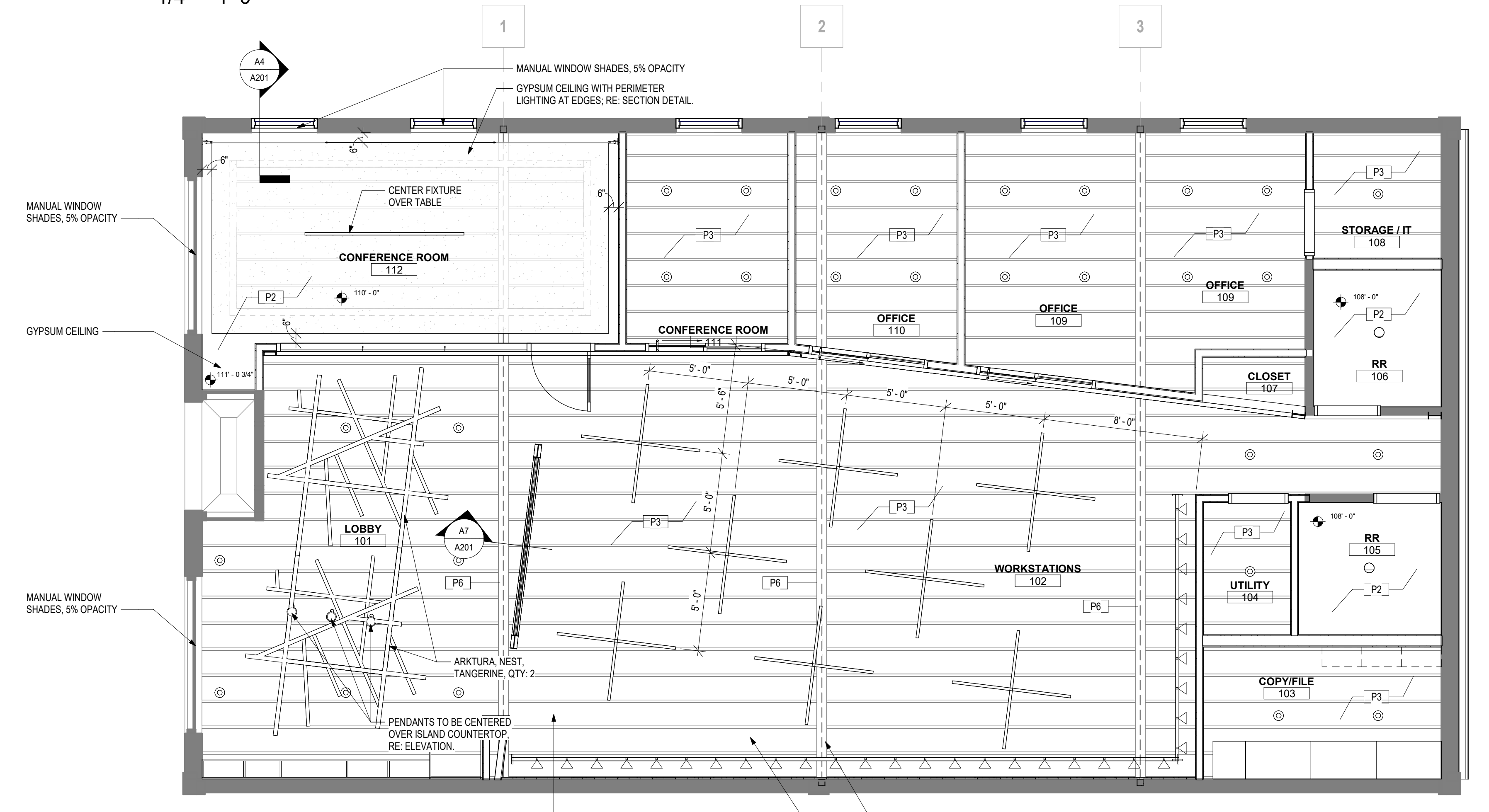
WALL TYPE B

TYPE	WALL DESCRIPTION
B	<ul style="list-style-type: none"> 6" METAL STUD @ 16" O.C. TO DECK ABOVE 5/8" TYPE "X" GYP. BD. EACH SIDE TO DECK ABOVE 6" SOUND BATT INSUL. TO FULL HEIGHT OF WALL ACOUSTICAL SEALANT AT FLOOR, DECK, & ALL PENETRATIONS NON RATED



WALL TYPE E

TYPE	WALL DESCRIPTION
E	<ul style="list-style-type: none"> 3 5/8" METAL STUD @ 16" O.C. TO DECK ABOVE 5/8" TYPE "X" GYP. BD. ONE SIDE TO DECK ABOVE NO SOUND BATT INSUL. NON RATED



A7 1ST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

**GENERAL NOTES:
FLOOR PLANS**

- SEE GENERAL ARCHITECTURAL SHEETS FOR ADDITIONAL NOTES AND DETAILS THAT ARE APPLICABLE.
- ARCHITECTURAL ELEVATION 100'-0" DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD WALL (F.G.) FACE OF MASONRY (F.M.) FACE OF CONCRETE WALLS (F.C.) AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
- NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PER WALL TYPES. SEE GENERAL SHEETS.
- 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 CLOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
- PROVIDE FINISH LEVELS AS DESCRIBED:
 LEVEL 1: FIRE RATED WALL AREAS ABOVE FINISHED CEILING, WHETHER OR NOT ACCESSIBLE IN THE COMPLETE CONSTRUCTION.
 LEVEL 2: AREAS WHERE SETTING TYPE COMPOUND FOR WATER RESISTANT GYPSUM BACKER OR FIBER REINFORCED WALL PANELS ARE USED.
 LEVEL 3: ALL AREAS WHERE AN ACOUSTIC PANEL IS INSTALLED.
 LEVEL 4: ALL OPEN TO PLENUM SPACES ABOVE CEILING.
 LEVEL 5: OPEN TO STRUCTURE SPACES WHERE PAINTED BLACK.
 LEVEL 6: OPEN TO STRUCTURE SPACES WHERE PAINTED OTHER THAN BLACK.
 LEVEL 7: AREAS WHERE ROOM SIDE WALLS AND/OR CEILING HAVE PAINTED SURFACES.
 LEVEL 8: CIRCULATION CORRIDORS WHERE ROOM SIDE WALLS AND/OR CEILING HAVE PAINTED SURFACES.
 LEVEL 9: NOT USED.
- RE: FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
- MAINTAIN AND PROTECT EXISTING EXPANSION JOINTS DURING CONSTRUCTION. PATCH OR REPAIR/REPLACE TO MATCH EXISTING FINISHES AS REQUIRED.
- ALL WOOD PRODUCTS TO BE FIRE-RETARDANT, INCLUDING BLOORING AND PLYWOOD.

**GENERAL NOTES:
REFLECTED CEILING PLANS**

- RE: SHEET 600 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
- RE: DETAILS FOR ADDITIONAL CONDITIONS AND CEILING HEIGHT INFORMATION.
- RE: FINISH LEGEND AND FINISH SCHEDULE FOR ROOM CEILING FINISHES.
- RE: INTERIOR ELEVATIONS FOR LOCATION OF WALL MOUNTED LIGHT FIXTURES.
- RE: ELECTRICAL SHEETS AND SPECIFICATIONS FOR DETAILED INFORMATION ON LIGHT FIXTURE SCHEDULE.
- RE: MECHANICAL SHEETS AND SPECIFICATIONS FOR DETAILED INFORMATION ON DIFFUSERS.
- RE: MECHANICAL SHEETS FOR LOCATIONS OF SOUND ISOLATION BELOW AND/OR AROUND MECH. EQUIPMENT. DIMENSIONS SHOWN ON THE REFLECTED CEILING PLANS ARE TO THE FACE OF GYP. BOARD (F.G.) AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
- ALL CEILING HEIGHTS AS SHOWN ON PLANS AND DETAILS ARE FROM SLAB OR TILE FLOOR TO FINISH CEILING.
- AT ALL GYP. BD. SOFFITS, EXTEND GYP. BD. UP 6 INCHES ABOVE ADJACENT CEILING.
- CEILING TILES/GRID TO BE CENTERED IN THE ROOM, UNLESS NOTED OTHERWISE.
- RECESSED LIGHTING SPEAKERS, SMOKE DETECTORS, ETC. AND PENDANT LIGHT FIXTURES - SHALL BE CENTERED IN CEILING TILE OR GYP. BD. CEILING, UNLESS NOTED OTHERWISE.
- COORDINATE ALL PENDANT MOUNTED LIGHT FIXTURES IN EQUIPMENT AREAS WITH EXPOSED STRUCTURE.
- COORDINATE ALL CEILING MOUNTED EQUIPMENT WITH CASEWORK BELOW.
- IF THERE IS A CONFLICT BETWEEN ANY ABOVE-CEILING MECHANICAL / ELECTRICAL / PLUMBING WORK & THE SCHEDULED OR SHOWN CEILING HEIGHT, CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- PROVIDE OVERALL CEILING COORDINATION DRAWING SHOWING ALL DEVICES DURING SHOP SUBMITTAL PROCESS. ALL LIGHTING BY G.C. COORD. WITH MILLWORK CONTRACTOR FOR LOCATION.
- ALL EXPOSED CONDUIT, DUCTWORK, ETC. TO BE PAINTED BLACK, TYP.

CEILING PLAN LEGEND

- NOTE:** SOME SYMBOLS MAY NOT BE USED IN THIS DRAWING OR PROJECT.
- ACT-1:**
 SUSPENDED LAY-IN CEILING TILE AND EXPOSED TEE-GRID SYSTEM (4X4)
- 5/8" GYPSUM BOARD BULKHEAD, CEILING OR SOFFIT. SEE APPLICABLE DETAILS AND SECTIONS.
- RECESSED CAN LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
- DECORATIVE PENDANT MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
- GENERAL PENDANT MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
- EMERGENCY WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR TYPE.
- EMERGENCY EXIT LIGHT FIXTURE (CEILING MOUNTED). SEE ELECTRICAL DRAWINGS FOR TYPE.
- EMERGENCY EXIT LIGHT FIXTURE (WALL MOUNTED). SEE ELECTRICAL DRAWINGS FOR TYPE.
- CEILING MOUNTED RETURN AIR GRILLE. SEE MECHANICAL DRAWINGS FOR TYPE.
- CEILING MOUNTED SUPPLY DIFFUSER. SEE MECHANICAL DRAWINGS FOR TYPE.
- EXHAUST DUCT. SEE MECHANICAL DRAWINGS FOR TYPE.
- CEILING MOUNTED SPEAKER GRILLE. SEE ELECTRICAL DRAWINGS FOR TYPE.
- SPRINKLER HEAD. SEE PLUMBING DRAWINGS FOR TYPE.

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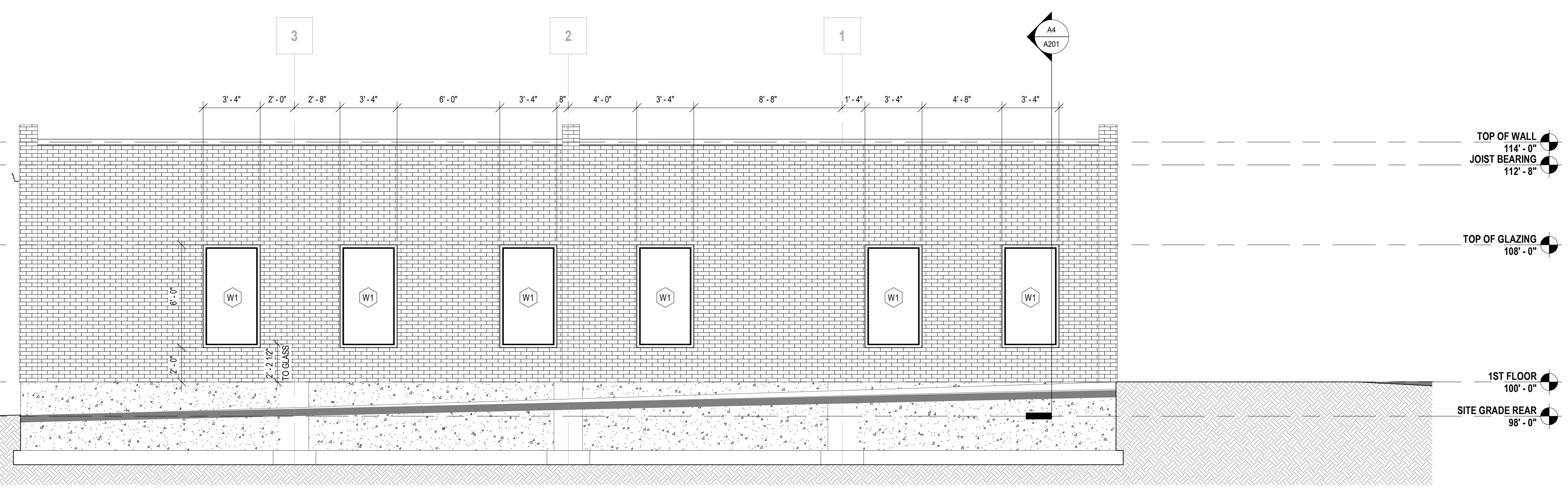
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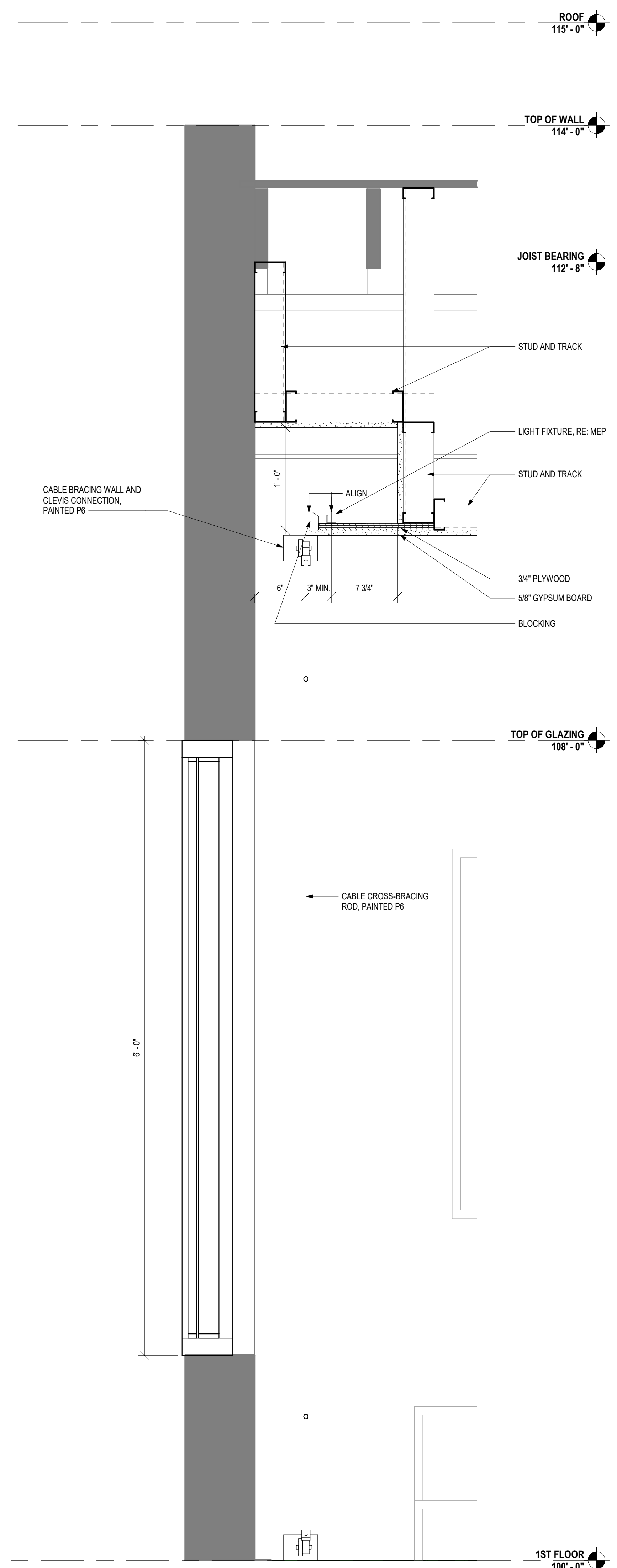
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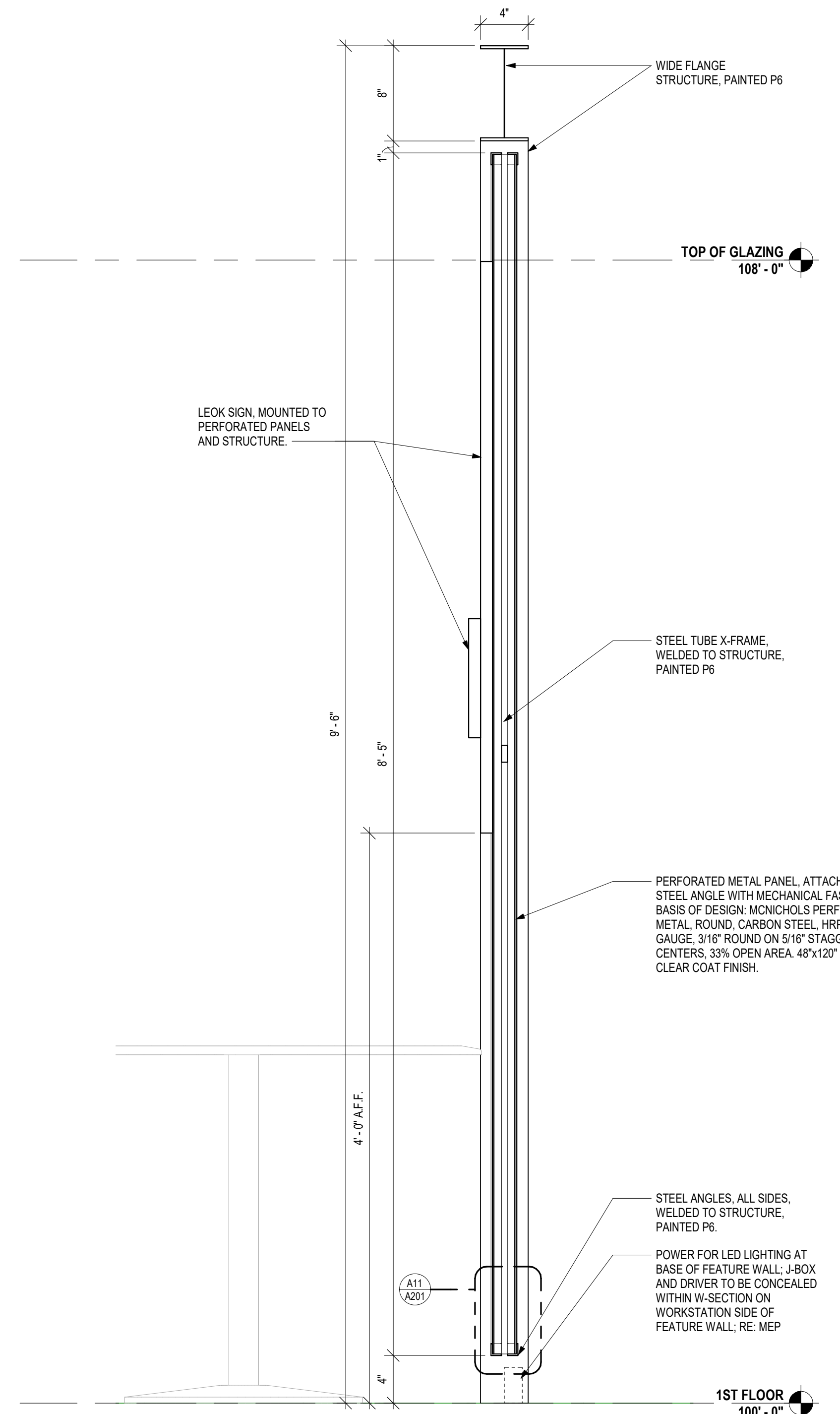
PLAN & RCP



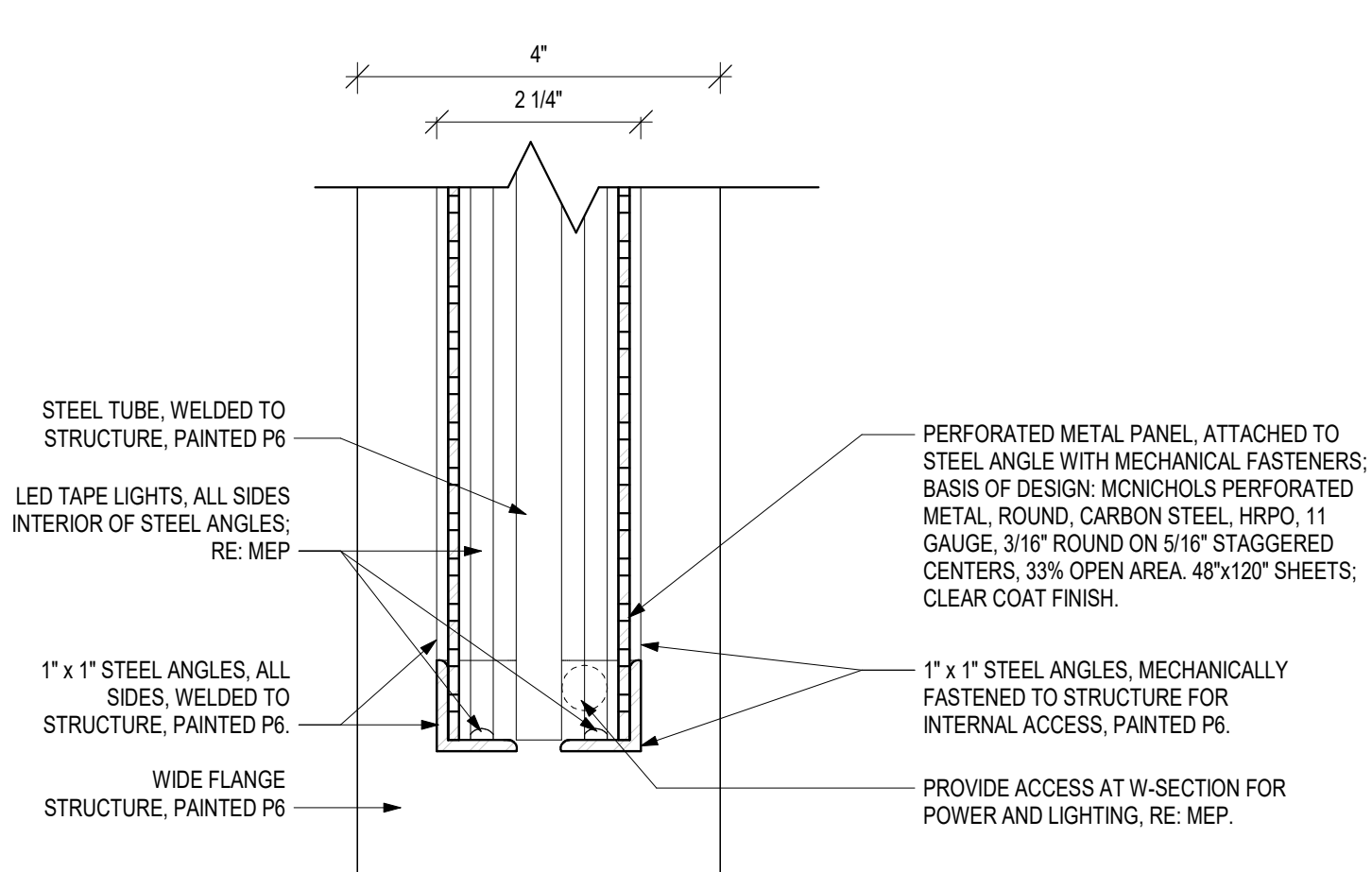
H12 NORTH
1/4" = 1'-0"



A4 WALL SECTION @ CONFERENCE ROOM
1 1/2" = 1'-0"



A7 FEATURE WALL SECTION
1 1/2" = 1'-0"



A11 DETAIL
6" = 1'-0"

**GENERAL NOTES:
EXTERIOR ELEVATIONS**

1. RE. SHEET G001 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), FACE OF STUD, AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
3. RE. THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
4. PROVIDE ALL BLOCKING AND POWER AS REQUIRED FOR EXTERIOR SIGNAGE.

**GENERAL NOTES:
EXTERIOR WALL SECTIONS/
DETAILS**

1. RE. SHEET G001 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE. FLOOR PLANS, ROOF PLAN AND ELEVATIONS FOR SECTION CUT LOCATIONS.
3. ALL WINDOW AND DOOR OPENING DIMENSIONS ARE ROUGH OPENING DIMENSIONS, UNLESS NOTED OTHERWISE.
4. 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.
5. PAINT ALL EXPOSED STEEL, INCLUDING STEEL LINTELS, ETC. (TYP.)

EXTERIOR ELEVATION MATERIALS

	EXTERIOR INSULATION FINISH SYSTEM
	MODULAR BRICK
	BREAK METAL CHANNEL
	METAL PANEL ROOF SCREEN



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A201

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EXTERIOR ELEVATIONS & WALL SECTIONS

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FINISH LEGEND					
SYMBOL	MATERIAL	MANUFACTURER	TYPE	COLOR	TYP. AREA / REMARKS
FLOOR FINISH					
PC1	POLISHED CONCRETE, HIGH GLOSS	SCOFIELD	LITHOCHROME, HIGH GLOSS	PEWTER STAIN FINISH	ALTERNATE FLOOR OPTION: NO STAIN, NATURAL FINISH
WALL BASE					
RB1	RUBBER BASE (4"H)	TARKETT	MONUMENT 4" MV-XX-S4	TG2 SHARK FIN CG	ALL GYP. WALLS AND AT CASEWORK TACKERS I.N.O.
DOOR & FRAME FINISH					
P1	PAINT	SHERWIN WILLIAMS	SATIN ENAMEL	SW 7067 CITYSCAPE BLACK	HM DOOR FRAMES AND SCWD / HM DOORS
PWC1	POWDERCOAT	FALKBUILT	POWDERCOAT		ALL INTERIOR ALUMINUM DOOR AND WINDOW FRAMES
WALL FINISH					
AP1	ACOUSTICAL PANEL (12"x7"x1" THICK, 60 LEFT/RIGHT TRIANGLES)	ARMSTRONG	TECTUM DESIGNART SHAPES	TBD (FIELD COLOR)	WORKSTATION FEATURE WALL, RE-ELEVATION FOR INSTALLATION PATTERN; COORDINATE FINAL PRODUCT SELECTION AND INSTALLATION PATTERN WITH TENANT
AP2	ACOUSTICAL PANEL (12"x7"x1" THICK, 60 LEFT/RIGHT TRIANGLES)	ARMSTRONG	TECTUM DESIGNART SHAPES	TBD (ACCENT COLOR)	WORKSTATION FEATURE WALL, RE-ELEVATION FOR INSTALLATION PATTERN; COORDINATE FINAL PRODUCT SELECTION AND INSTALLATION PATTERN WITH TENANT
EP1	PAINT - EPOXY	SHERWIN WILLIAMS	SATIN	SW 7650 ELLIE GRAY	RESTROOM WALLS ABOVE TILE WAJNSCOTTING
P4	PAINT	SHERWIN WILLIAMS	SATIN	SW 7055 PURE WHITE	FIELD COLOR - WALLS
P5	PAINT	SHERWIN WILLIAMS	SATIN	SW 7650 ELLIE GRAY	ACCENT COLOR - WALLS
P6	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	COLOR MATCH TO PANTONE P 124-5 C	STEEL STRUCTURAL ELEMENTS, EXISTING AND NEW, RE: PLANS, ELEVATIONS
T1	GLAZED CERAMIC WALL TILE (2"x8"x5/16")	DALTILE	LINEAR	0190 (1) ARCTIC WHITE	KITCHENETTE BACKSPLASH, VERTICAL STACK INSTALLATION
T2	GLAZED CERAMIC WALL TILE (12"x36"x7/16")	DALTILE	MATTE	GEOMETRIC AS23 - MATTE	RESTROOM WAJNSCOTTING, TO 4'-0" A.F.F., STACKED INSTALLATION
TG1	TILE GROUT - EPOXY (1/16" GROUT JOINTS)	TEC	EPOXY	927 LIGHT PEWTER	TO BE USED WITH T1, T2
MILLWORK / CASEWORK					
HW1	STEEL BAR 3" CABINET DOOR / DRAWER (NO KICKS)	LIBERTY	3" CENTER TO CENTER	BAR076W-SS-CP STAINLESS STEEL	KITCHEN CASEWORK DOORS AND DRAWERS TO BE PREPARED
HW2	12" CENTER APPLIANCE PULL (PLASTIC LAMINATE)	AMEROCK	12" CENTER TO CENTER APPLIANCE PULL	BP14008SS STAINLESS STEEL	PANEL READY DISHWASHER
HW3	12" CENTER APPLIANCE PULL (PLASTIC LAMINATE)	WILSONART	12" CENTER TO CENTER APPLIANCE PULL	Q4055 LOGAN PASS MATCH TO PL1	COUNTERTOPS, SQUARE EDGE
SS1	SIMULATED STONE / QUARTZ SOLID WOOD PLANK	WILSONART	3CM, POLISHED 1-1/2" THICK WHITE OAK		WOOD SHELVES AT PRIVATE OFFICES
CEILING FINISH					
P2	PAINT	SHERWIN WILLIAMS	FLAT	SW 7757 HIGH REFLECTIVE WHITE	GYP CEILING / SOFFITS
P3	PAINT - DRYFALL	SHERWIN WILLIAMS	DRYFALL	SW 6258 TRICORN BLACK	OPEN TO STRUCTURE
WALL PROTECTION					
CG1	CORNER GUARD - ALUMINUM (3/4" x 3/4")		FULL HEIGHT	BLACK	HIGH PROFILE AREAS, SEE FINISH FLOOR PLANS FOR LOCATIONS
FRP1	FIBER REINFORCED PANEL / RIGID SHEET WALLCOVERING (1/8")	INPRO	SMOOTH FINISH	TBD	UTILITY ROOM AT MOP SINK, TO 4'-0" A.F.F.

ROOM FINISH SCHEDULE													
RM. NO.	ROOM NAME	FLOORS						WALL FINISH			CASEWORK		REMARKS
		FLOOR	WALL BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COUNTERTOP	BASE CABINET	UPPER CABINET		
101	LOBBY	PC1	RB1	P3,P4,P6	P3,P4,P6	P3,P4,P6	P3	SS1	PL1	PL1			
102	WORKSTATIONS	PC1	RB1	P3,P4,P6	P3,P4,P6	P3,P4,P6	P3	PL1	PL1	PL1			
103	COPY/FILE	PC1	RB1	P3,P4	P3,P4	P3,P4	P3	SS1	PL1	PL1			
104	UTILITY	PC1	RB1	P3,P4	P3,P4	P3,P4	P3						
105	RR	PC1		EP1, T2	EP1, T2	EP1, T2	P2						
106	RR	PC1		EP1, T2	EP1, T2	EP1, T2	P2						
107	CLOSET	PC1	RB1	P3	P3	P3	P3						
108	STORAGE / IT	PC1	RB1	P3,P4	P3,P4	P3,P4	P3						
109	OFFICE	PC1	RB1	P3,P4	P3,P4	P3,P4	P3						
110	OFFICE	PC1	RB1	P3,P4	P3,P4	P3,P4	P3						
111	CONFERENCE ROOM	PC1	RB1	P3,P4	P3,P4	P3,P4	P3						
112	CONFERENCE ROOM	PC1	RB1	P3	P3	P3	P2	PL1	PL1				

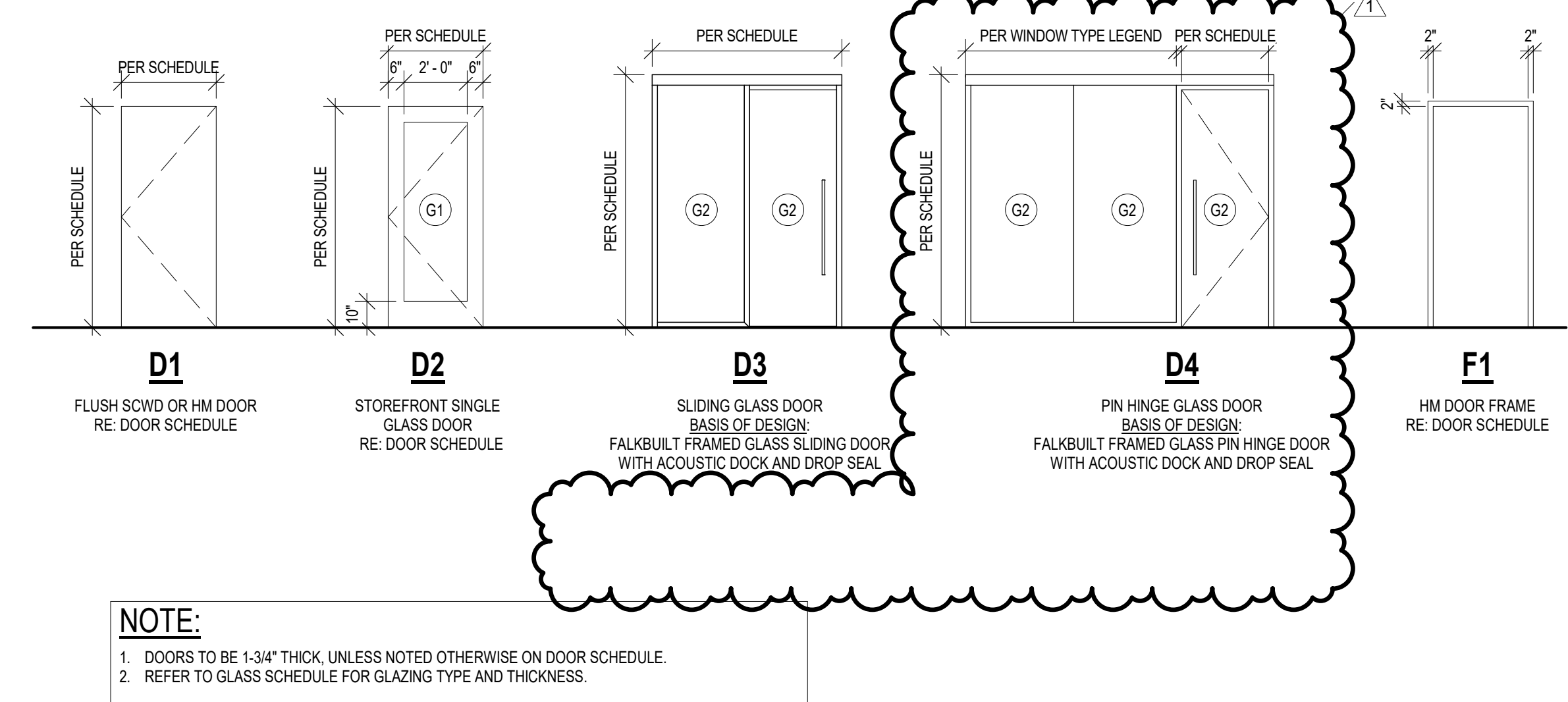
GENERAL NOTE:
FINISH MATERIALS TO BE PROCURED FROM OWNER SELECTED / SPECIFIED VENDOR, AS LISTED ABOVE. ALTERNATES OR SUBSTITUTIONS WILL NOT BE ACCEPTED.



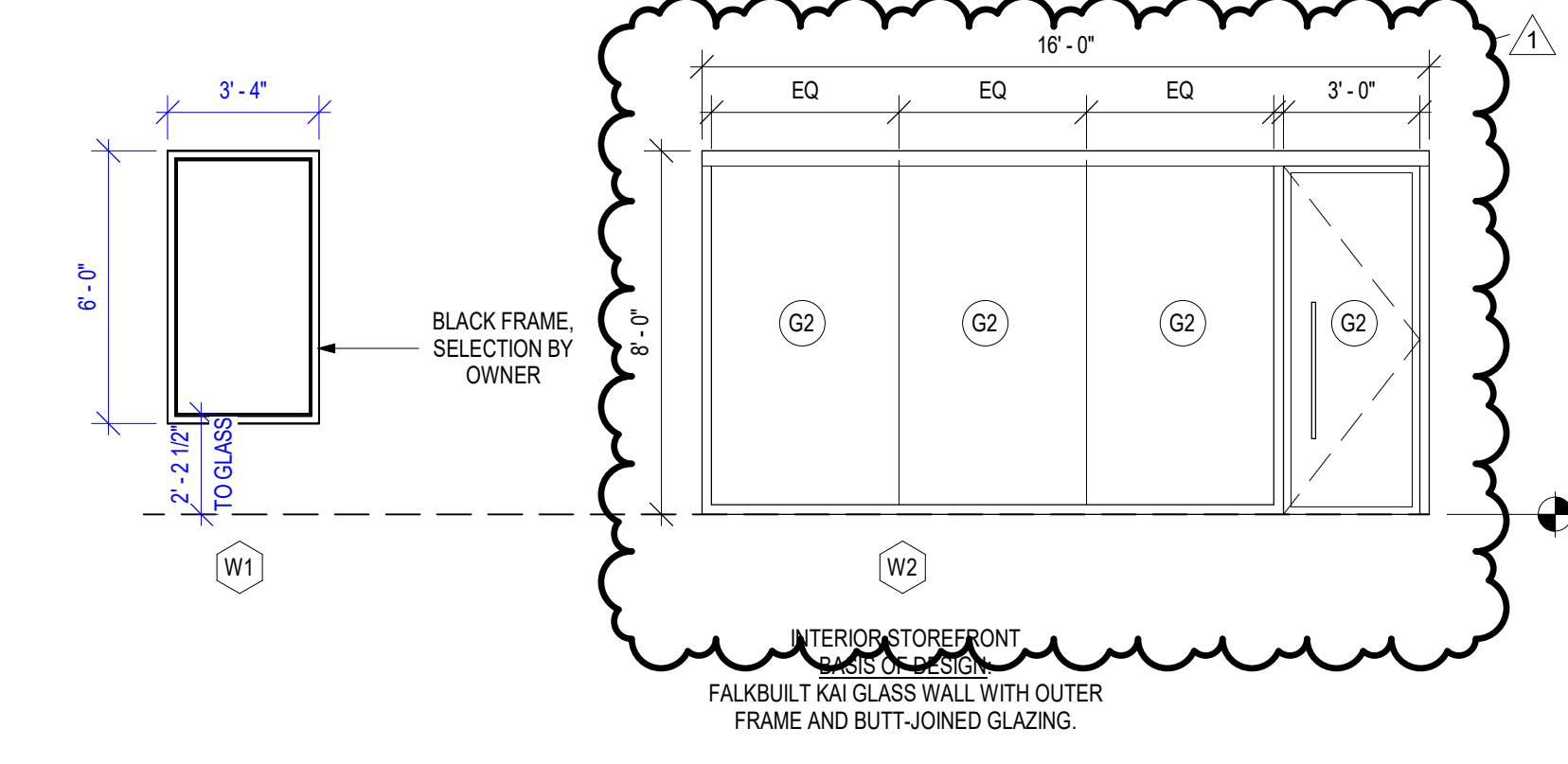
A12 1ST FLOOR - FINISH PLAN
1/4" = 1'-0"

DOOR SCHEDULE												
DOOR NO.	ROOM NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	RTG	POWER	REMARKS
101-X	LOBBY	3'-0"	6'-11 1/2"	D2	AL/GL	N/A - EXISTING	P1	AL	N/A - EXISTING			1, 2
102-X	WORKSTATIONS	3'-0"	6'-8"	D1	HM	P1	P1	HM	P1			2, 3
103	UTILITY	2'-8"	7'-0"	D1	SCWD	P1	F1	HM	P1			
106	RR	3'-0"	7'-0"	D1	SCWD	P1	F1	HM	P1			
108	STORAGE / IT	3'-0"	7'-0"	D1	SCWD	P1	F1	HM	P1			
109	OFFICE	6'-0"	8'-0"	D3	AL/GL	PWC1		AL	PWC1			
110	OFFICE	6'-0"	8'-0"	D3	AL/GL	PWC1		AL	PWC1			
111	CONFERENCE ROOM	6'-0"	8'-0"	D3	AL/GL	PWC1		AL	PWC1			
112	CONFERENCE ROOM	3'-0"	7'-9 1/2"	D1	AL/GL	PWC1		AL	PWC1			

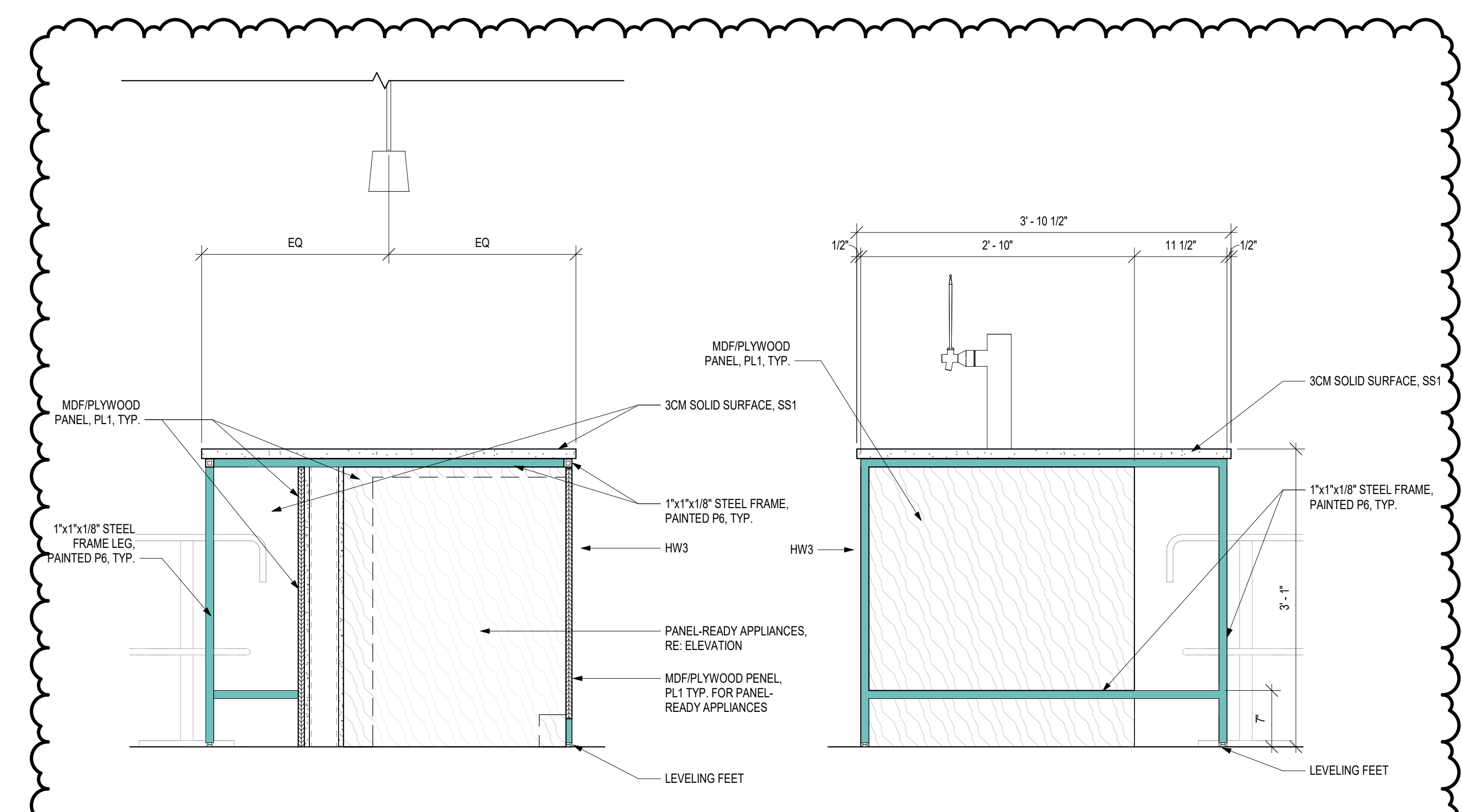
DOOR SCHEDULE REMARKS:
1. EXISTING DOOR TO REMAIN. PROTECT DOOR AND FRAME FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE TO BE REPAIRED/REPLACED PER OWNER DISCRETION.
2. PROVIDE DOOR ACCESS SYSTEM. COORDINATE WITH OWNER TO INTEGRATE WITH SYSTEM AT ADJACENT SOUTH BUILDING GARAGE DOOR.
3. EXISTING DOOR AND FRAME TO BE REFINISHED. RE: FINISH LEGEND.



G5 DOOR & FRAME TYPE ELEVATIONS
1/4" = 1'-0"



E5 WINDOW TYPE LEGEND
1/4" = 1'-0"



A5 SECTION - ISLAND
1" = 1'-0"

A3 ELEVATION - ISLAND
1" = 1'-0"

GENERAL NOTES:
DOOR SCHEDULE
1. HM REFERS TO HOLLOW METAL
2. AL REFERS TO ALUMINUM
3. WD REFERS TO WOOD
4. SCWD REFERS TO SOLID CORE WOOD
5. ALL EXTERIOR ALUMINUM DOORS & FRAMES ARE TO BE FINISHED TO MATCH ADJACENT ALUMINUM WINDOW FRAME, I.N.O.
6. FOR FINISH COLOR DESIGNATION FOR INTERIOR DOOR AND FRAMES, REFER TO FINISH LEGEND.
7. REFER TO SPECIFICATION FOR HARDWARE SET DESIGNATIONS.
8. 2 HOUR FIRE BARRIERS DOORS = 90 MINUTE RATING
1 HOUR FIRE BARRIERS DOORS = 45 MINUTE RATING
1 HOUR SMOKE BARRIER = 20 MINUTE RATING
9. PROTECT ALL DOORS & FRAMES FROM DAMAGE THROUGHOUT CONSTRUCTION PHASES
10. ALL EGRESS DOORS TO BE PROVIDED WITH PANIC HARDWARE

GLASS TYPE LEGEND	
DESIGNATION NUMBER	DESCRIPTION
(G1)	1" INSULATED TEMPERED GLAZING
(G2)	1/4" TEMPERED GLAZING, CLEAR

GENERAL NOTES:
INTERIOR FINISHES
1. RE: SHEET 0601 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: G02 FOR ACCESSIBILITY GUIDELINES.
3. RE: A700 SERIES SHEETS FOR ADDITIONAL WALL FINISH CLARIFICATION.
4. HOLLOW METAL FRAMES SHALL RECEIVE SEMI-GLOSS FINISH. WHERE WALL COLOR IS DIFFERENT ON EACH SIDE OF THE HOLLOW METAL FRAME, PAINT FRAME TO MATCH CORRIDOR WALL, UNLESS NOTED OR SHOWN OTHERWISE.
5. CONTINUE WALL FINISH AS SCHEDULED BEHIND EQUIPMENT.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CASEWORK FABRICATION AND INSTALLATION.
7. ALL EXPOSED CASEWORK SURFACES SHALL BE FINISHED WITH PLASTIC LAMINATE AS SCHEDULED. I.N.O.
8. ALL PLASTIC LAMINATE DOOR AND DRAWERS TO RECEIVE 3/8" PVC EDGEBAND AND ALL COUNTERTOPS TO RECEIVE 3/8" PVC EDGEBANDING.
9. ALL BACKSPLASH MATERIAL SHALL MATCH COUNTERTOP MATERIAL.
10. WHERE TWO MODULAR TILES (PORCELAIN, MARBLE, OR QUARRY) OF VARYING THICKNESSES MEET, THE SETTING BED FOR THE THINNER TILE SHALL BE BUILT UP TO ENSURE THAT THE FACES OF THE DIFFERENT TILES ARE FLUSH.
11. TRANSITION ALL WALL FINISHES/COLOR CHANGES AT INSIDE CORNERS, UNLESS NOTED OTHERWISE (I.N.O.).
12. TRANSITION WALL BASE AT INSIDE CORNERS, I.N.O.
13. INSTALL METAL TRANSITION STRIP WHERE WALL TILE MEETS PAINTED GYP. SD. WALL IN ALL VERTICAL AND/OR HORIZONTAL CONDITIONS, I.N.O.

ROOM FINISH SCHEDULE REMARKS:
AREAS WITH MULTIPLE DESIGNATED FINISHES, RE: FINISH FLOOR PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL CLARIFICATION.
1. PROVIDE FRP TO 4'-0" AFF.

GENERAL NOTES:
FLOOR FINISH PLANS
1. RE: SHEET 0601-TI - FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FINISH LEGEND, FINISH SCHEDULE, AND FLOOR FINISH PLANS FOR SPECIFIC FLOOR FINISH INFORMATION AND LOCATIONS.
3. FLOOR FINISHES SHOWN ARE FOR ACCENT CLARIFICATION ONLY. RE: FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
4. FLOOR FINISH PATTERN SHALL BE CENTERED IN ROOM, UNLESS NOTED OTHERWISE.
5. ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE.
6. FLOOR FINISH MATERIAL AND/OR PATTERN SHALL BE INSTALLED UNDER TACKERS OF CASEWORK/MILLWORK, UNDER OPEN COUNTERTOPS, AND UNDER EQUIPMENT.
7. FLOOR MATERIAL/COLOR TRANSITIONS TO ALIGN WITH ROOM SIDE OF DOOR STOP, UNLESS NOTED OR SHOWN OTHERWISE.
8. INSTALL TRANSITION STRIPS AT ALL FLOOR FINISH MATERIAL CHANGES, UNLESS NOTED OTHERWISE.

WALL FINISH / WALL PROTECTION PLANS:
1. RE: G-SHEETS - FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FINISH LEGEND & FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION & LOCATIONS.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING FOR WALL PROTECTION ATTACHMENT. THIS INCLUDES, BUT IS NOT LIMITED TO HANDRAILS, POSTER CASES, TV MONITORS, BATHROOM ACCESSORIES, FIRE EXTINGUISHERS AND EQUIPMENT. RE: ROUGH CARPENTRY SPECIFICATION SECTION FOR CLARIFICATION.
4. CONTRACTOR SHALL PROVIDE MANUFACTURER'S STANDARD ACCESSORY MOLDING OR TRIM FOR WALL PROTECTION ITEMS, UNLESS NOTED OTHERWISE.

WALL FINISH LEGEND
WALL PROTECTION CORNER GUARD (CG)
ACCENT PAINT (P)
ACOUSTICAL PANEL (AP)
WALL TILE (T)
WALL PROTECTION (FRP)
ROLLER SHADES: MANUAL MECH06/S SYSTEM W/ MECH05 SCRD 1100 SERIES 1% - CHARCOAL (1612)

NOT ALL WALL FINISHES ARE GRAPHICALLY SHOWN. REFER TO FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR SPECIFIC LOCATIONS AND MATERIALS.

3000 GRIT POLISHED CONCRETE FLOOR SPECS:
CONCRETE POLISH PROCESS:
1. SEAL ALL CRACKS & JOINTS W/ CLEAR POLYUREAEP-85 (TWO PART) TO SPECIFICATION.
2. GRIND WITH 30 GRIT METAL PAD
3. GRIND WITH 70 GRIT METAL PAD
4. GRIND WITH 120 GRIT METAL PAD
5. WASH AREA
6. CONSIDER DECK LS (HARDENER) SATURATION
7. POLISH WITH 100 GRIT RESIN PAD
8. POLISH WITH 200 GRIT RESIN PAD
9. POLISH WITH 400 GRIT RESIN PAD
10. POLISH WITH 800 GRIT RESIN PAD
11. WASH AREA
12. CONSIDER DECK LS GUARD (SCALER) SATURATION
13. BUFF PASS W/ 800 GRIT RESIN PAD
14. BUFF PASS W/ 3000 GRIT RESIN PAD

SCOPE OF WORK:
1. FILL CONSTRUCTION JOINTS WITH JOINT FILLER
2. BEGIN CONCRETE GRINDINGS WITH 30 GRIT METAL-BOND DIAMONDS
3. FOLLOWED BY TWO ADDITIONAL PASSES WITH 70 & THEN 120 METAL-BOND DIAMOND PASSES
4. APPLY CONCRETE LS GUARD HARDENER/SEALER @ 400 SF/GAL
5. BEGIN POLISHING CONCRETE WITH 100, THEN 200, THEN 400 AND THEN 800 GRIT RESIN-BOND DIAMOND PADS
6. WASH AREA
7. APPLY FINAL COAT OF LS GUARD @ 1000 SF/GAL
8. FINAL POLISH WITH 800 AND THEN 3000 GRIT RESIN-BOND POLISHING PADS
9. CLEAN WORK AREA AFTER COMPLETION

FLOOR FINISH LEGEND	
PC1	CONCRETE

NOT ALL FLOOR FINISHES ARE GRAPHICALLY SHOWN. ONLY THOSE FOR TRANSITION CLARIFICATION.

DOOR SCHEDULE, FINISH LEGEND & FINISH SCHEDULE



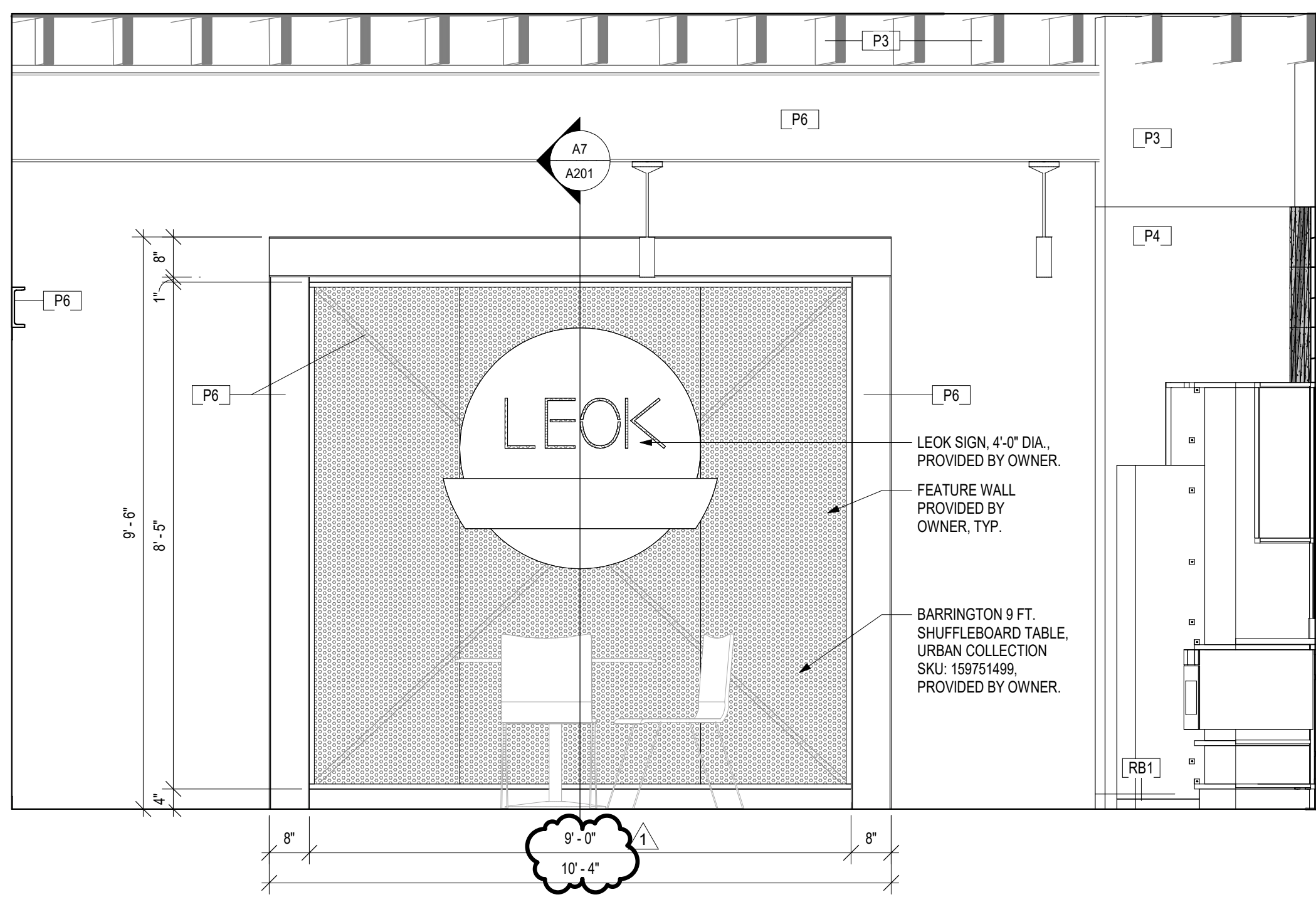
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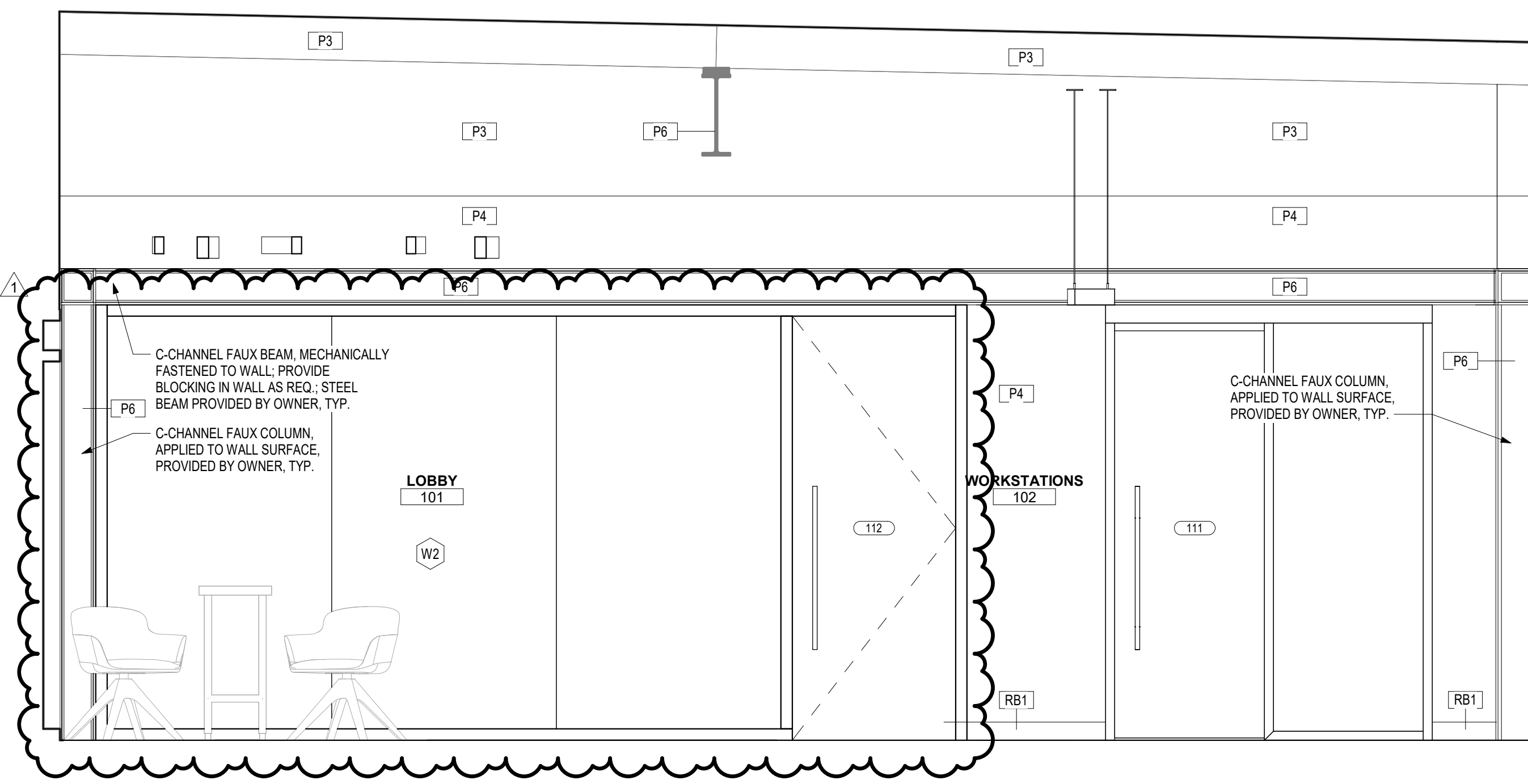
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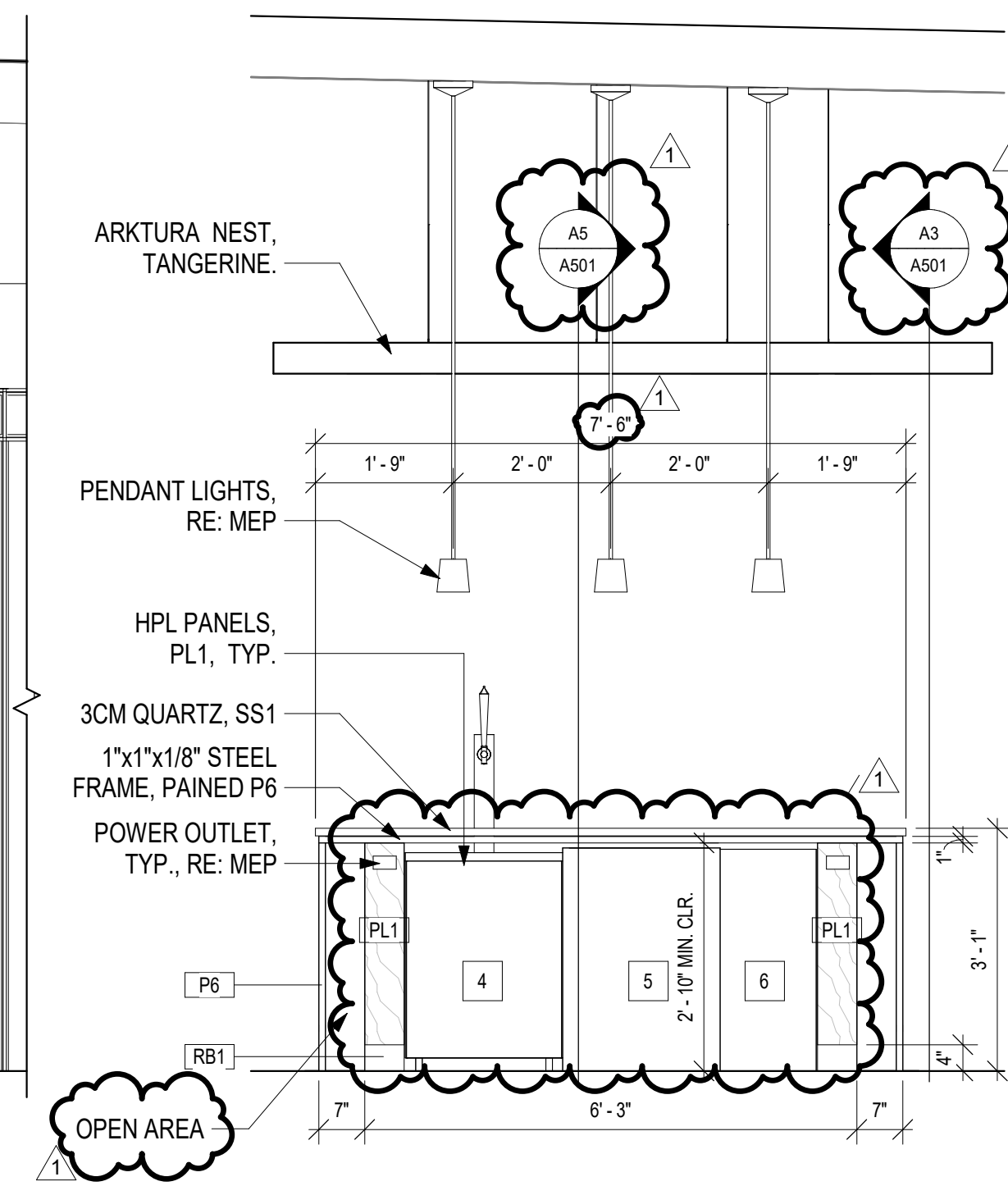
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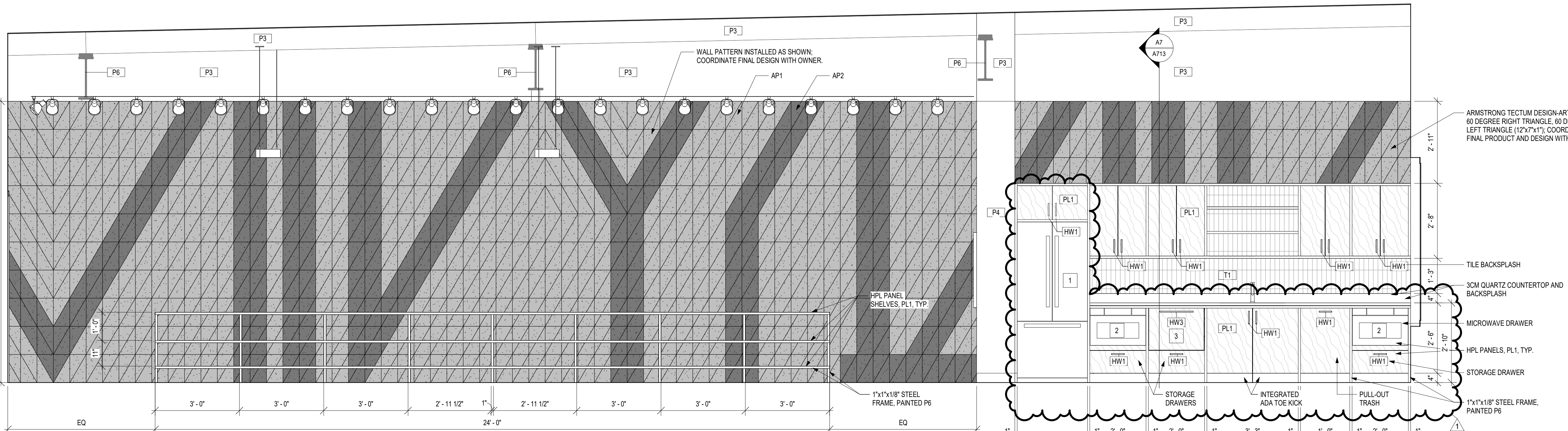
H12 ELEVATION - LOBBY FEATURE WALL
1/2" = 1'-0"



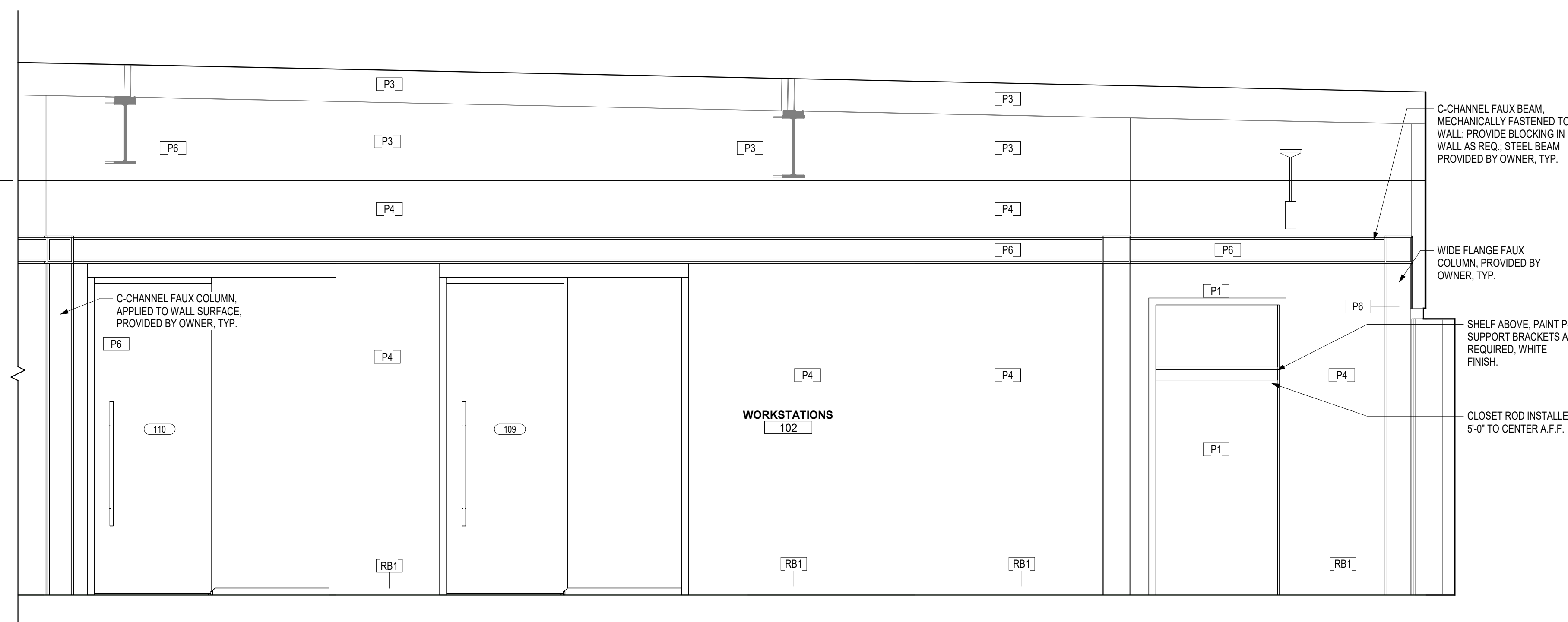
H8 ELEVATION - LOBBY
1/2" = 1'-0"



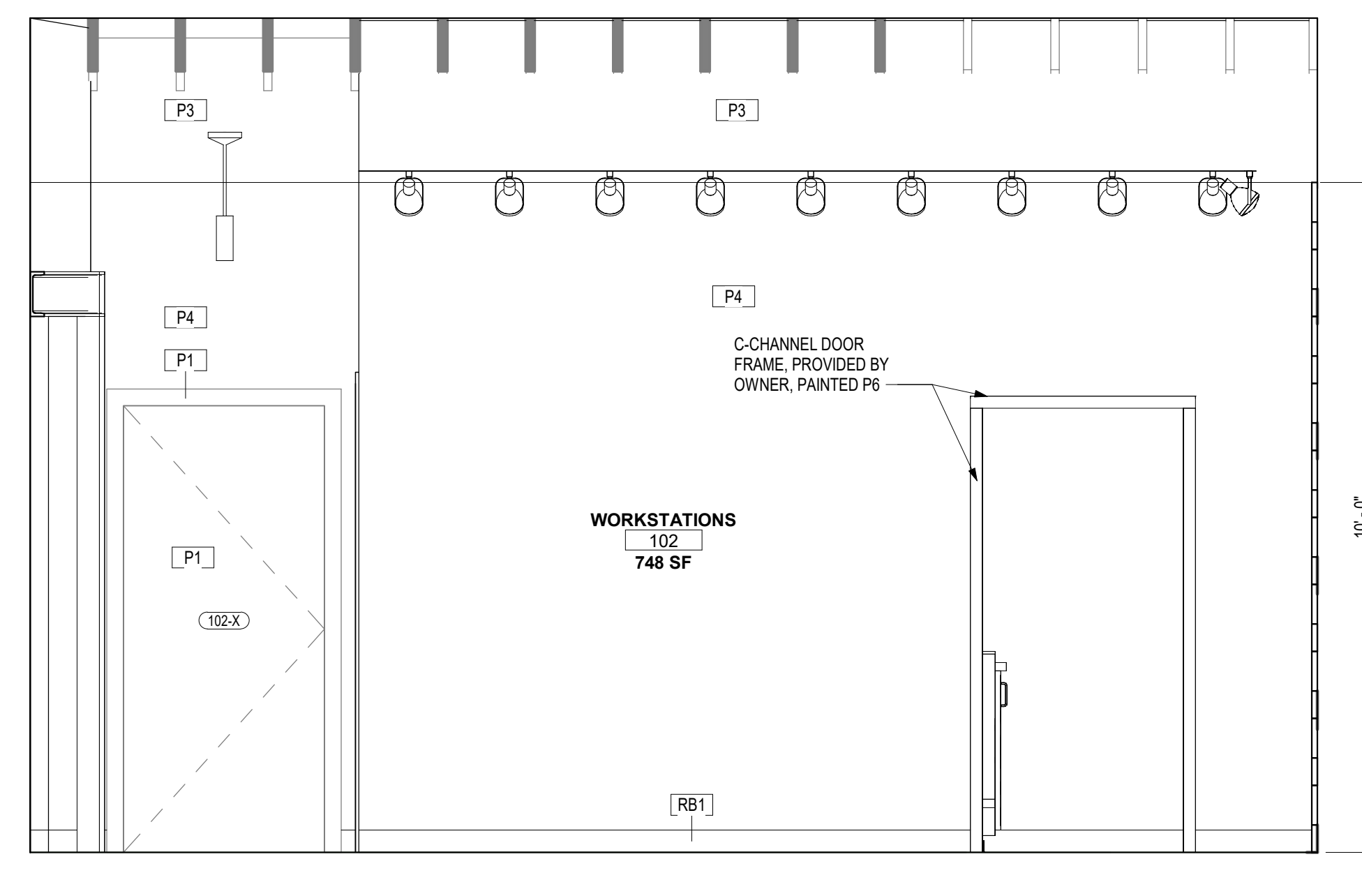
H2 ELEVATION - ISLAND
1/2" = 1'-0"



D12 ELEVATION - WORKSTATION FEATURE WALL + KITCHENETTE
1/2" = 1'-0"



A12 ELEVATION - WORKSTATIONS NORTH
1/2" = 1'-0"



A5 ELEVATION - WORKSTATIONS EAST
1/2" = 1'-0"

**GENERAL NOTES:
INTERIOR DETAILS**

- RE: SHEET G201 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
- RE: SHEET G202 ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHTS OF FIXTURES AND ACCESSORIES.
- RE: A501 FOR FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS.
- RE: A501 FINISH FLOOR PLANS FOR ADDITIONAL WALL FINISH CLARIFICATIONS.
- RE: SHEET A201 FOR REVEAL AND CONTROL JOINT DETAILS, WALL PROTECTION DETAILS, AND FLOOR TRANSITION/WALL BASE DETAILS.
- RE: SHEET A101 FOR TOILET ACCESSORY SCHEDULE. PROVIDE GYPSUM BOARD CONTROL JOINTS AT DOOR HEADERS WHERE EXPOSED FINISHED GYPSUM BOARD EXCEEDS 30 FEET (TYP.), UNLESS SHOWN OTHERWISE. JOINTS TO BE LINED UP WITH BOTH SIDES OF DOOR FRAMES FOR DOORS 4'-0" AND OVER AND ALL DOORS THAT ARE LEAD LINED CONTROL JOINTS NOT NECESSARY AT WALLS WHERE ACOUSTICAL WALLCOVERING IS SPECIFIED.
- RE: SHEET A201 FOR REVEAL AND CONTROL JOINT DETAILS, WALL PROTECTION DETAILS, AND FLOOR TRANSITION/WALL BASE DETAILS.
- TRANSITION ALL WALL AND BASE FINISHES, AND/OR COLOR CHANGES AT INSIDE CORNERS, UNLESS NOTED OTHERWISE. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY.
- CONTINUE WALL BASE AT ALL WALLS, FURRED OUT COLUMNS & COLUMN COVERS, AND AT ALL CASEWORK TOE KICKS, SIDE PANELS, AND UNDER OPEN COUNTERS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO MILLWORK CASEWORK FABRICATION & INSTALLATION. CONTRACTOR SHALL PROVIDE & INSTALL GROMMETS AT 48" O.C. MAX. AT ALL WORK STATIONS WITH OPEN KNEE SPACE. COORDINATE LOCATIONS DIRECTLY WITH ELECTRICAL DATA DRAWINGS FOR OUTLET LOCATIONS. COLOR TO BE SELECTED BY ARCHITECT.
- CONTRACTOR SHALL PROVIDE COUNTERTOP BRACKETS AT OPEN KNEE SPACES WIDER THAN 42" (TYP.), CENTER IN OPEN AREA AND PAINT TO MATCH WALL COLOR, UNLESS NOTED OR SHOWN OTHERWISE.
- ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE.
- RE: EQUIPMENT DRAWINGS & SPECS. FOR EQUIPMENT ITEMS SHOWN DASHED, PROVIDED BY EQUIP. CONSULTANT AND OR SUPPLIED BY OWNER. COORDINATE WITH OTHER TRADES AS NECESSARY.
- MECH. & ELEC. SYMBOLS AND OUTLETS ARE SHOWN FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH MEP DRAWINGS. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY.

**GENERAL NOTES:
CASEWORK**

- RE: FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS.
- ALL MILLWORK CASEWORK CONSTRUCTION SHALL MEET AIA PREMIUM STANDARDS, UNLESS NOTED OR SPECIFIED OTHERWISE.
- ALL EXPOSED MILLWORK CASEWORK SURFACES SHALL BE FINISHED W/ PLASTIC LAMINATE TO MATCH ADJACENT PLASTIC LAMINATE SURFACES, UNLESS NOTED OTHERWISE.
- ALL CASEWORK INTERIORS SHALL BE WHITE MELAMINE, UNLESS NOTED OTHERWISE.
- ALL FILLER PANELS SHALL BE 1/2 INCH WIDE MINIMUM, FINISHED TO MATCH ADJACENT FINISH SURFACES, AND SCRIBED TO FIT ADJACENT WALL, UNLESS NOTED OTHERWISE.
- ALL BACKSPLASH FINISHES SHALL MATCH COUNTERTOP MATERIAL AND FINISH, UNLESS NOTED OTHERWISE. PLASTIC LAMINATE SIDE BACKSPLASHES TO HAVE SELF EDGE LAMINATE, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL APPLY CLEAR MILDEW RESISTANT SILICONE SEALANT WHERE BACKSPLASH MEETS WALL AND COUNTERTOP.
- THE UNDERSIDE OF COUNTERTOPS WITH KNEE OPENINGS, MUST HAVE A WHITE MELAMINE FINISH, UNLESS NOTED OTHERWISE.
- WATER AND SUPPLY DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

GENERAL STEEL NOTE:

ALL NEW STEEL W-SECTIONS, C-CHANNELS, 1x SQUARE TUBE, AND PERFORATED METAL PANELS WILL BE OWNER-PROVIDED, INCLUDING STEEL FRAMING FOR ALL CASEWORK AND MILLWORK; CASEWORK AND MILLWORK PANELS, HARDWARE, AND INSTALLATION ARE G.C. SCOPE.

APPLIANCE LEGEND

1	REFRIGERATOR, WHIRLPOOL, 20CU FT. FRENCH DOOR, STAINLESS STEEL, MODEL: WR9569SMH
2	MICROWAVE DRAWER, SHARP, STAINLESS STEEL, MODEL: SMD2470AS, QTY: 2
3	DISHWASHER DRAWER, PANEL-READY, FISHER & PAYKEL, MODEL: DD24ST6BH1
4	KEGERATOR AND 2-TAP, KEGCO, STAINLESS STEEL, MODEL: K209SS-2NK
5	UNDERCOUNTER BEVERAGE COOLER, NEWAIR, STAINLESS STEEL, MODEL: NWB180SS00
6	UNDER COUNTER ICE MAKER, WHIRLPOOL, STAINLESS STEEL, MODEL: WUI75X15HZ



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1 City Comments & 08.08.2023
VE Revisions



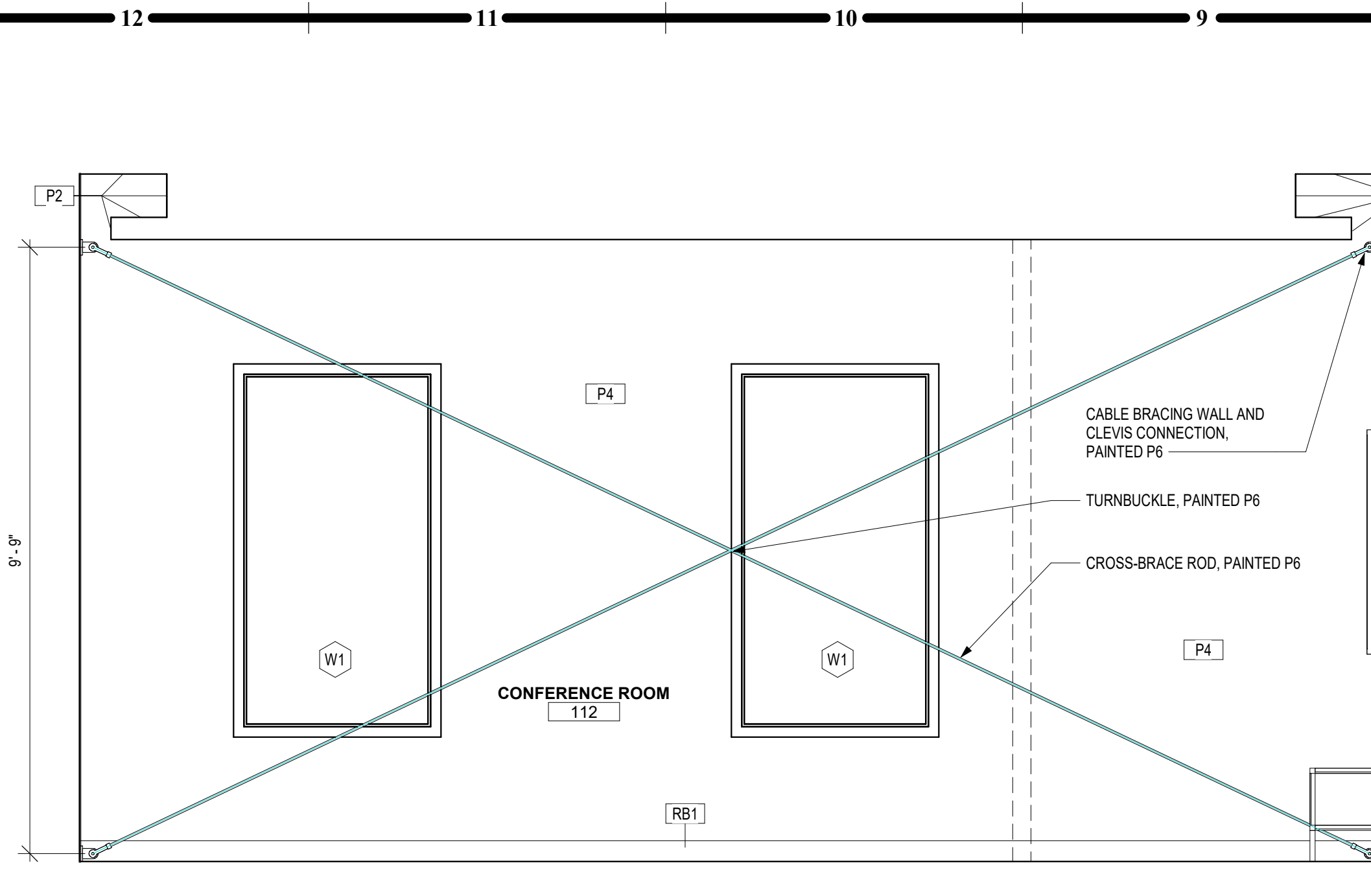
PROFESSIONAL SEAL

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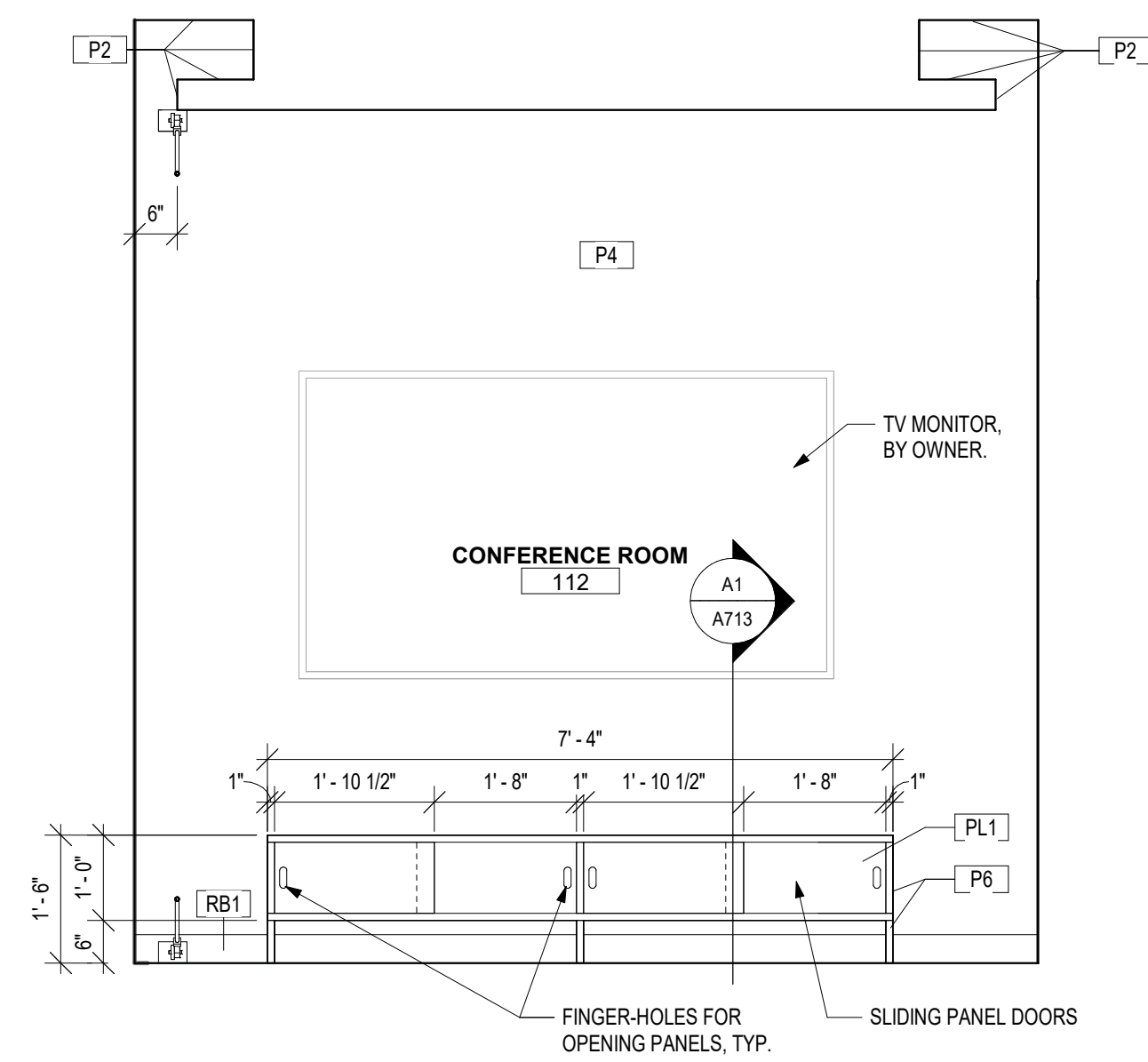
ISSUE DATE: JULY 17, 2023
COLLINS WEBB #: 23033

INTERIOR ELEVATIONS

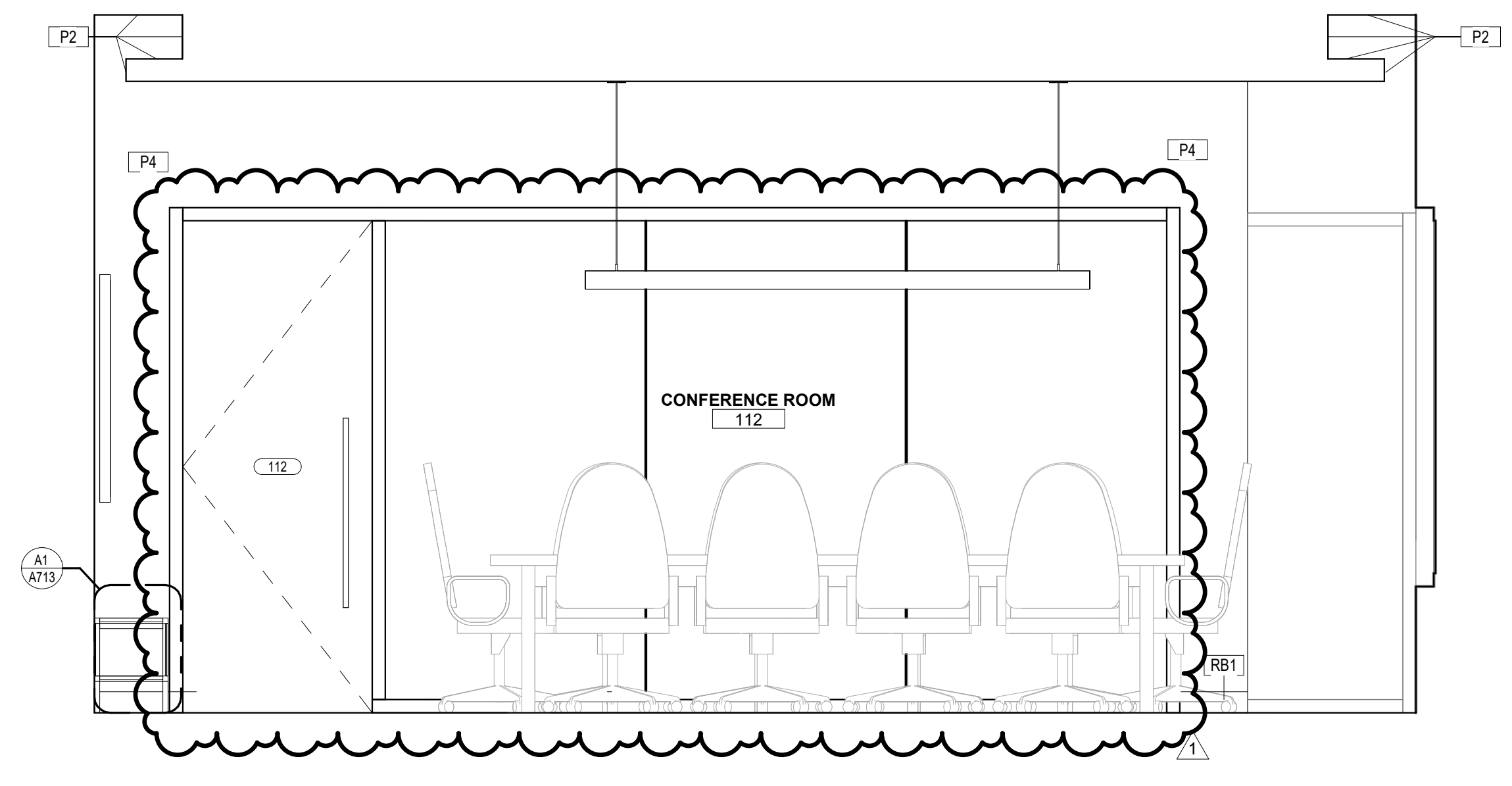
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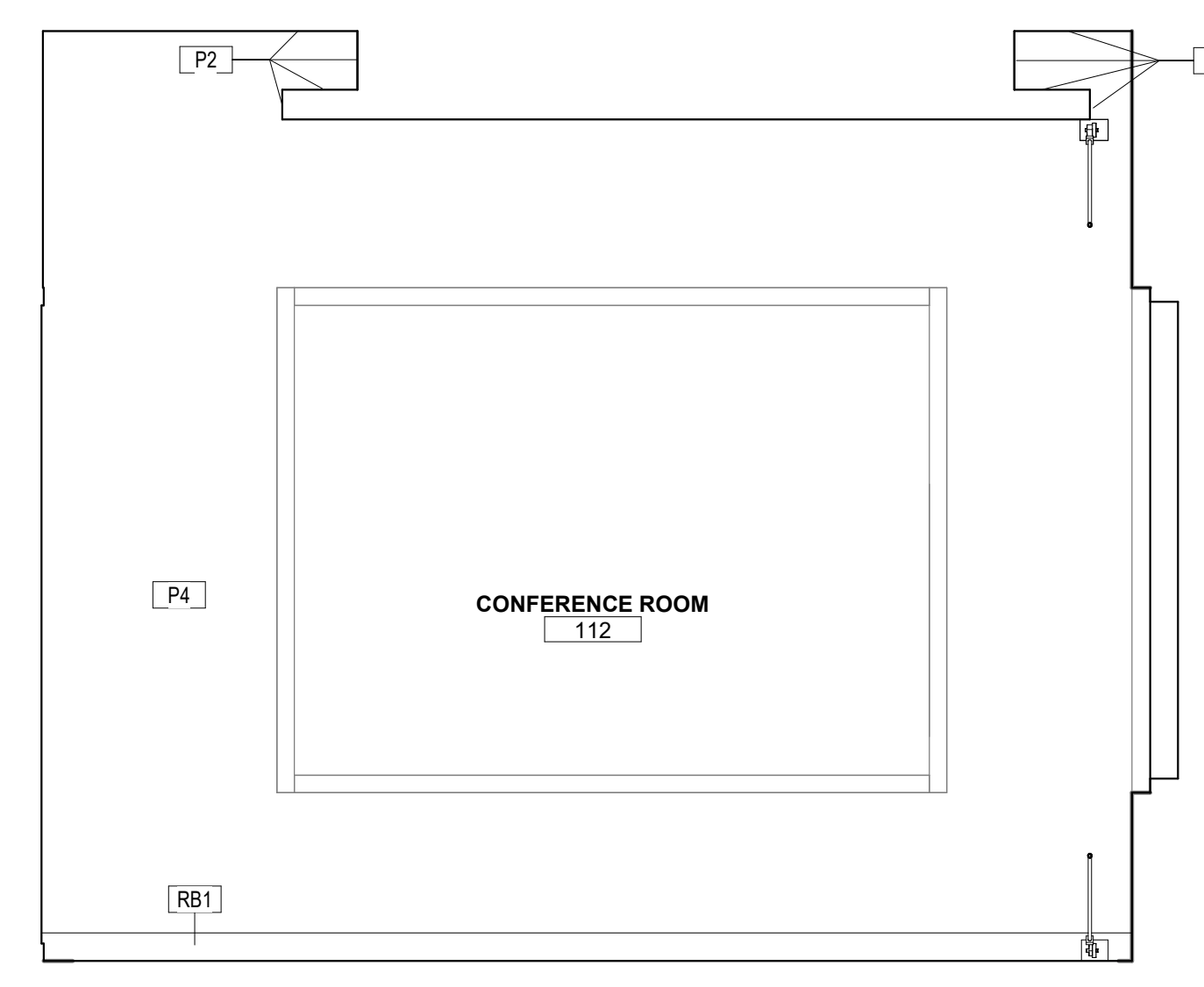
H12 ELEVATION - CONFERENCE ROOM NORTH
1/2" = 1'-0"



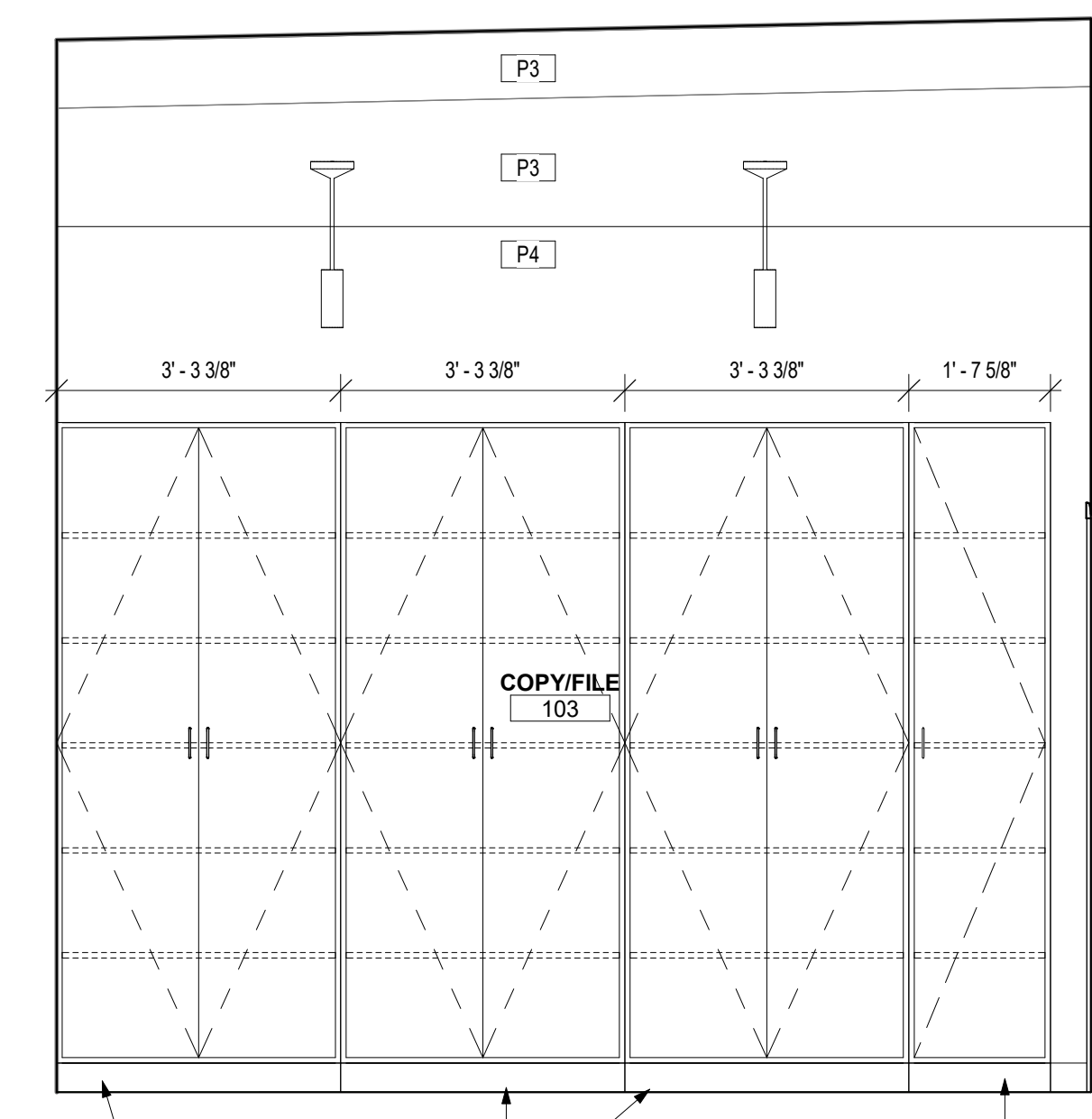
H7 ELEVATION - CONF. ROOM EAST
1/2" = 1'-0"



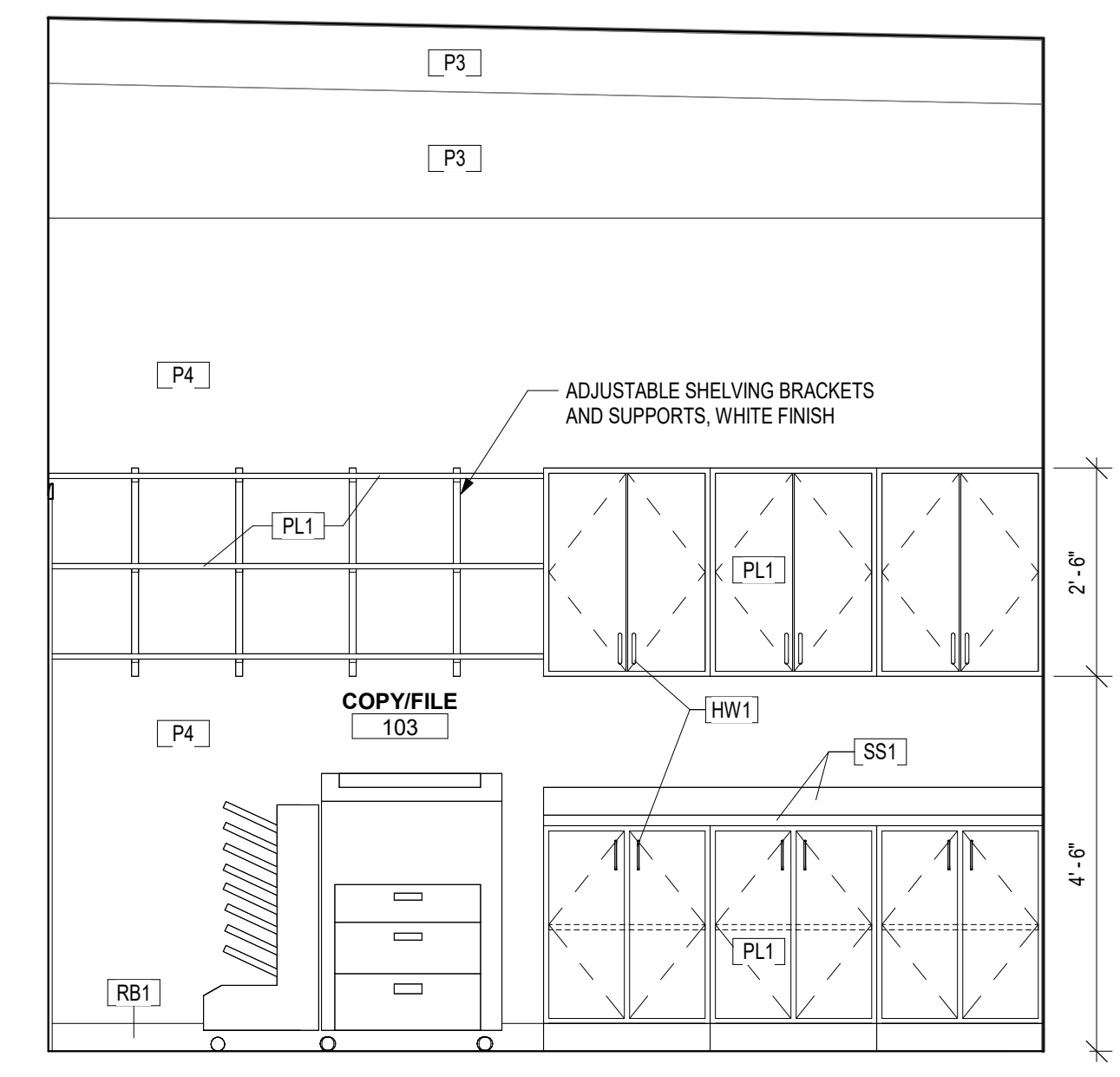
H4 ELEVATION - CONFERENCE ROOM SOUTH
1/2" = 1'-0"



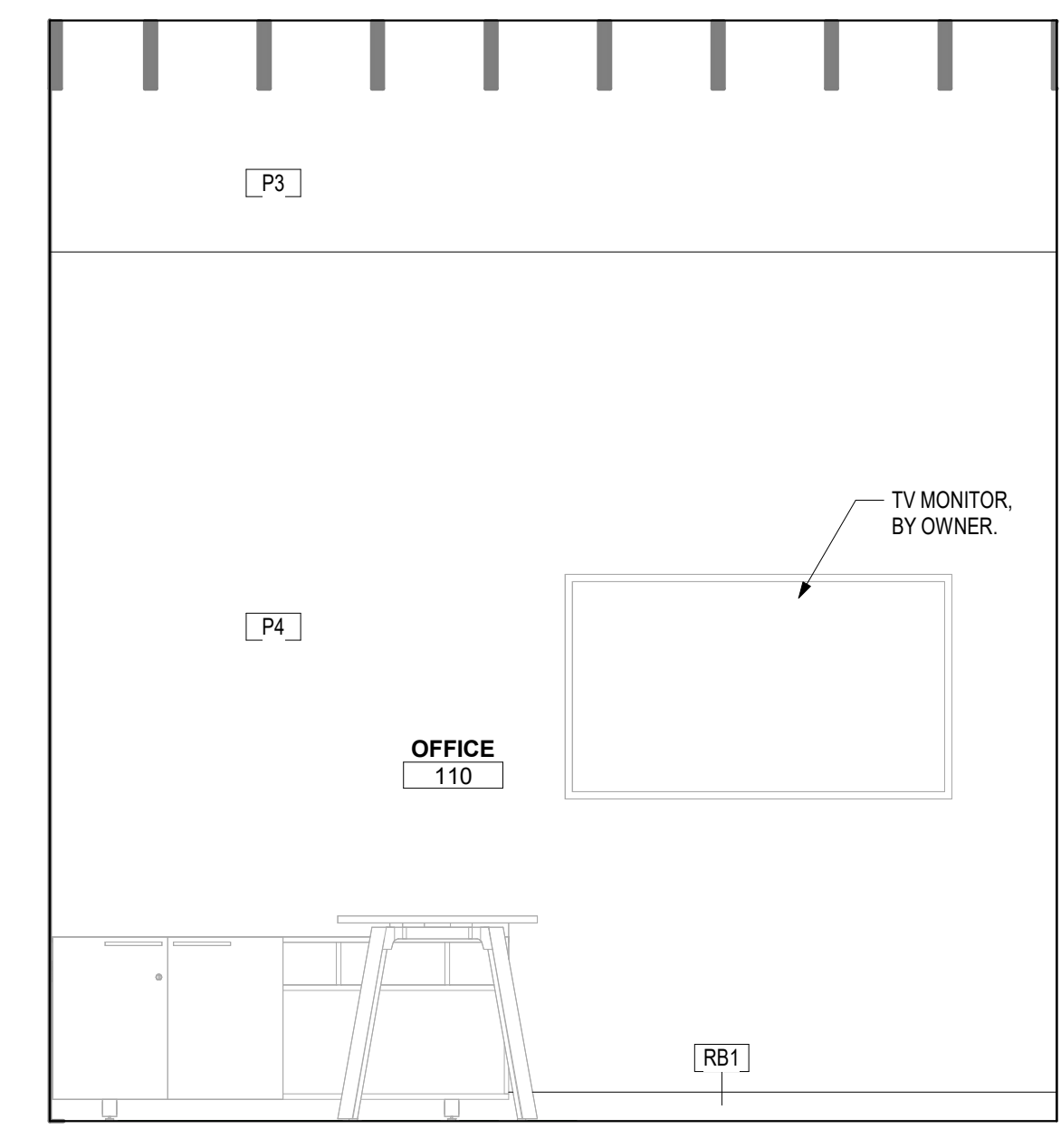
E12 ELEVATION - CONF. ROOM NORTH
1/2" = 1'-0"



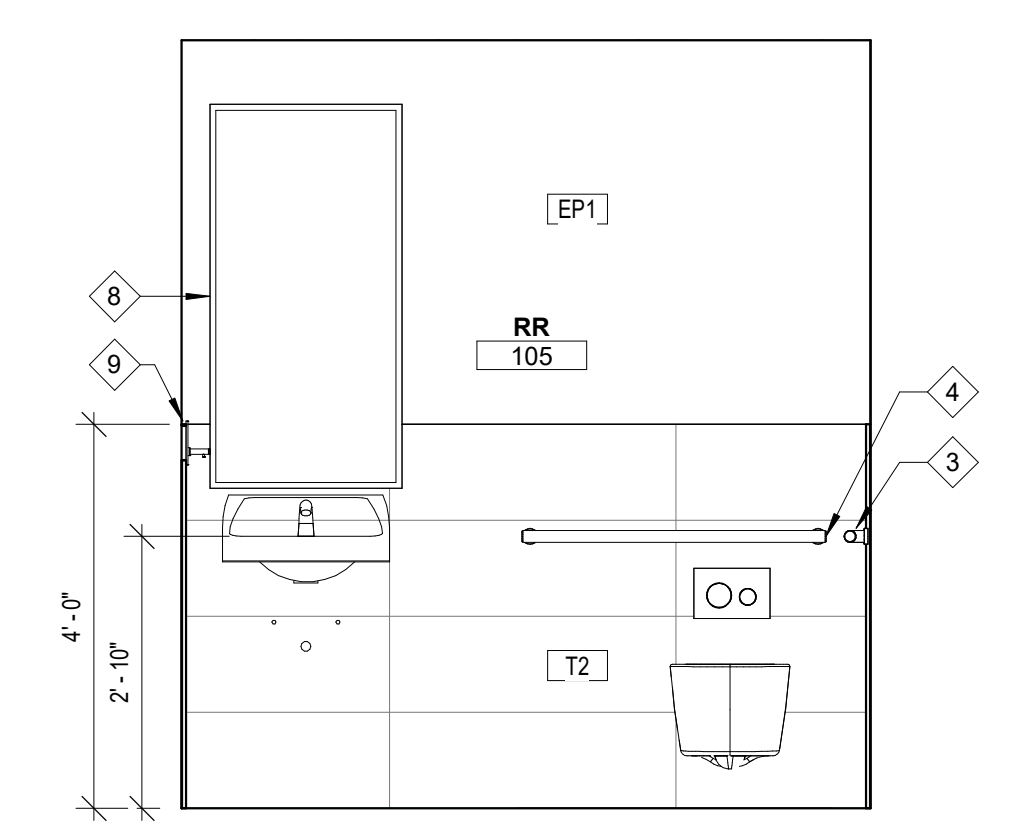
E9 ELEVATION - COPY/FILE SOUTH
1/2" = 1'-0"



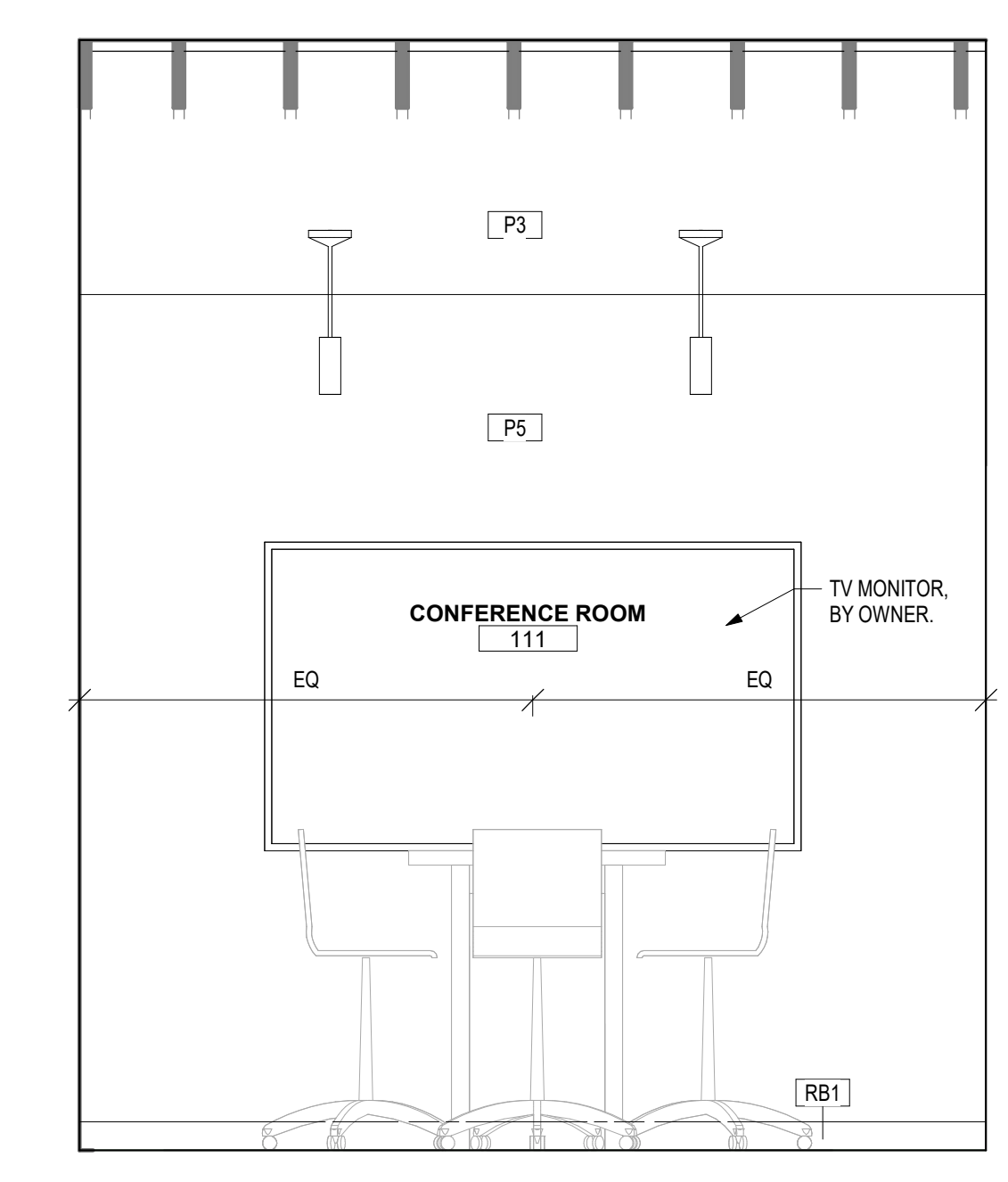
E7 COPY/FILE NORTH
1/2" = 1'-0"



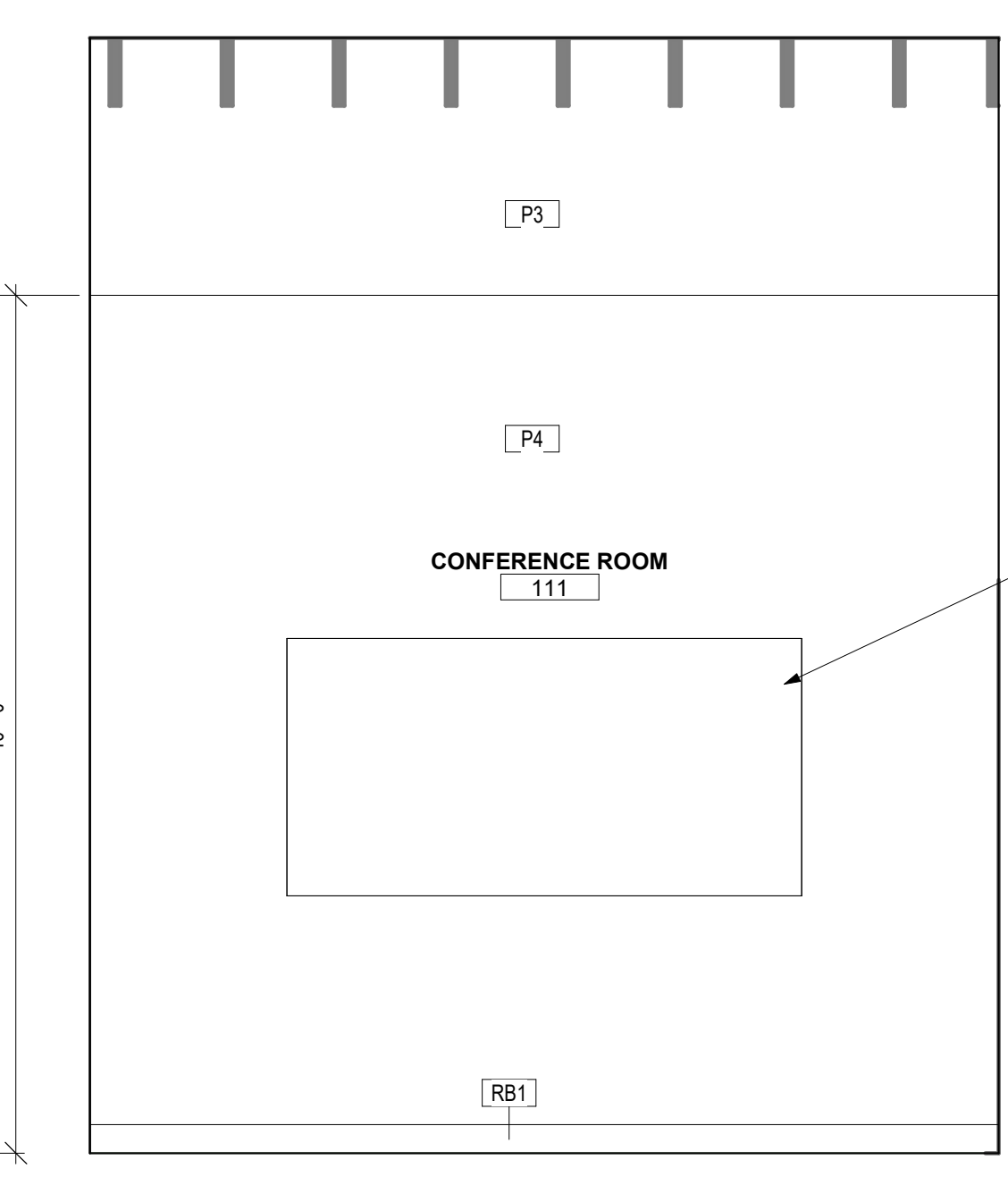
E4 OFFICE, TYP.
1/2" = 1'-0"



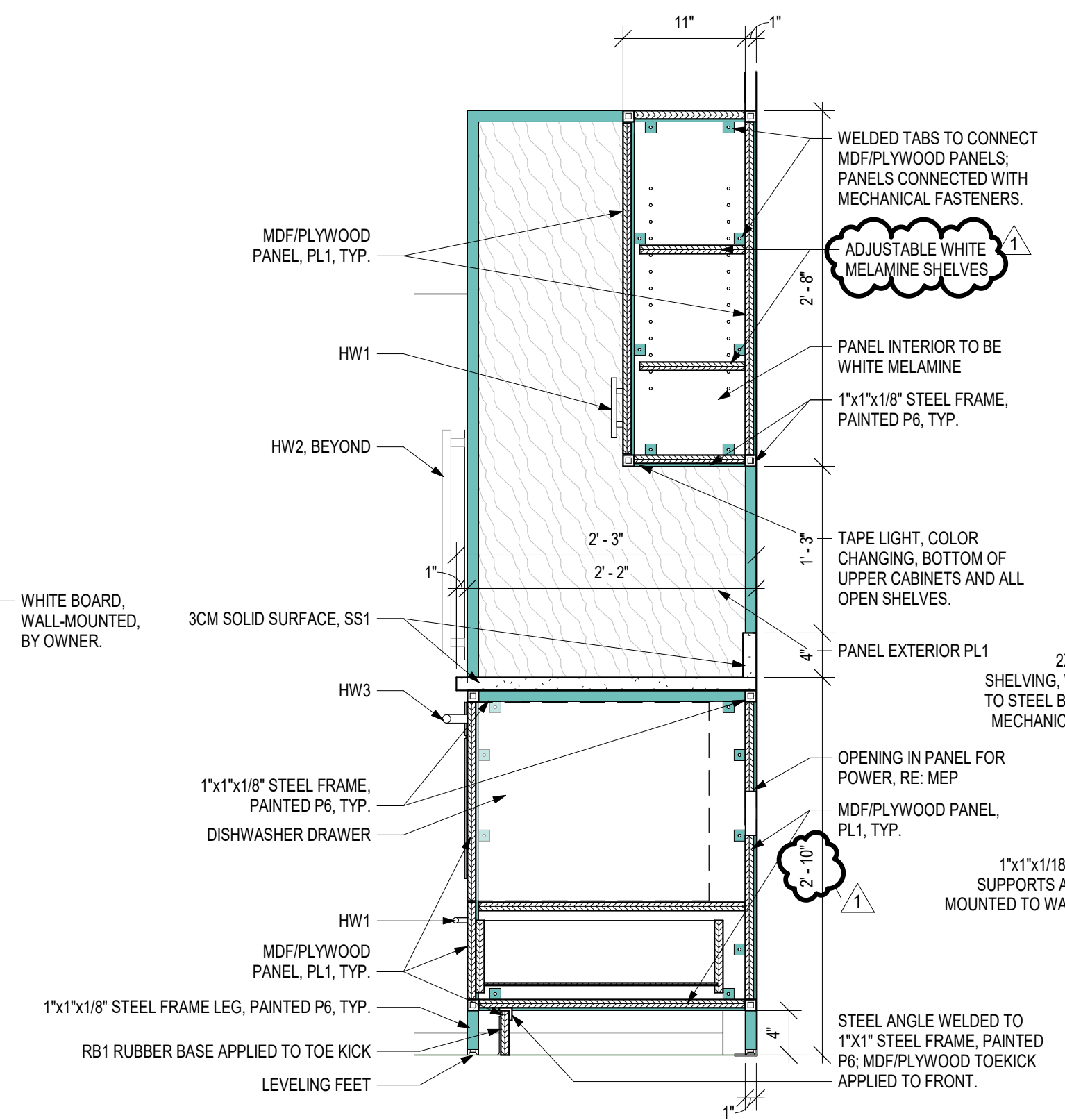
E2 RESTROOM ELEVATION, TYP.
1/2" = 1'-0"



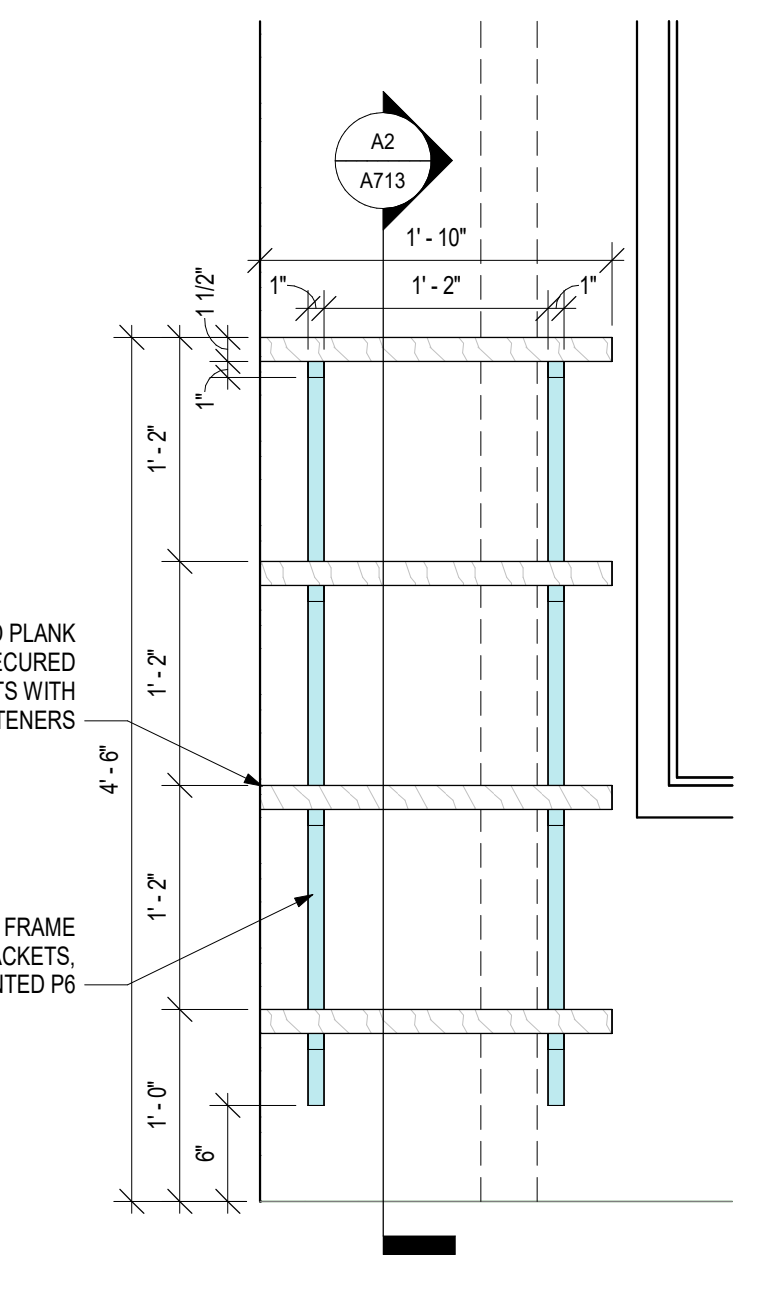
A12 ELEVATION - CONFERENCE ROOM EAST
1/2" = 1'-0"



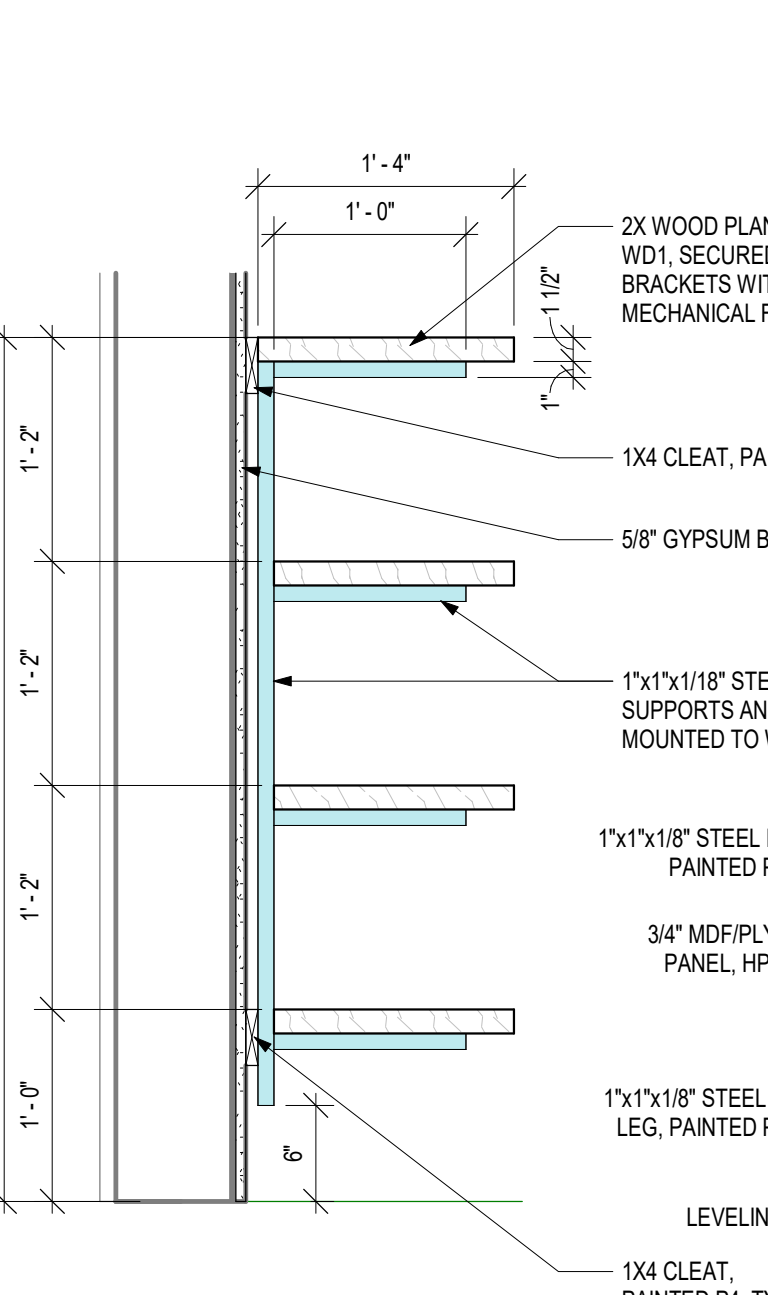
A9 ELEVATION - CONFERENCE ROOM WEST
1/2" = 1'-0"



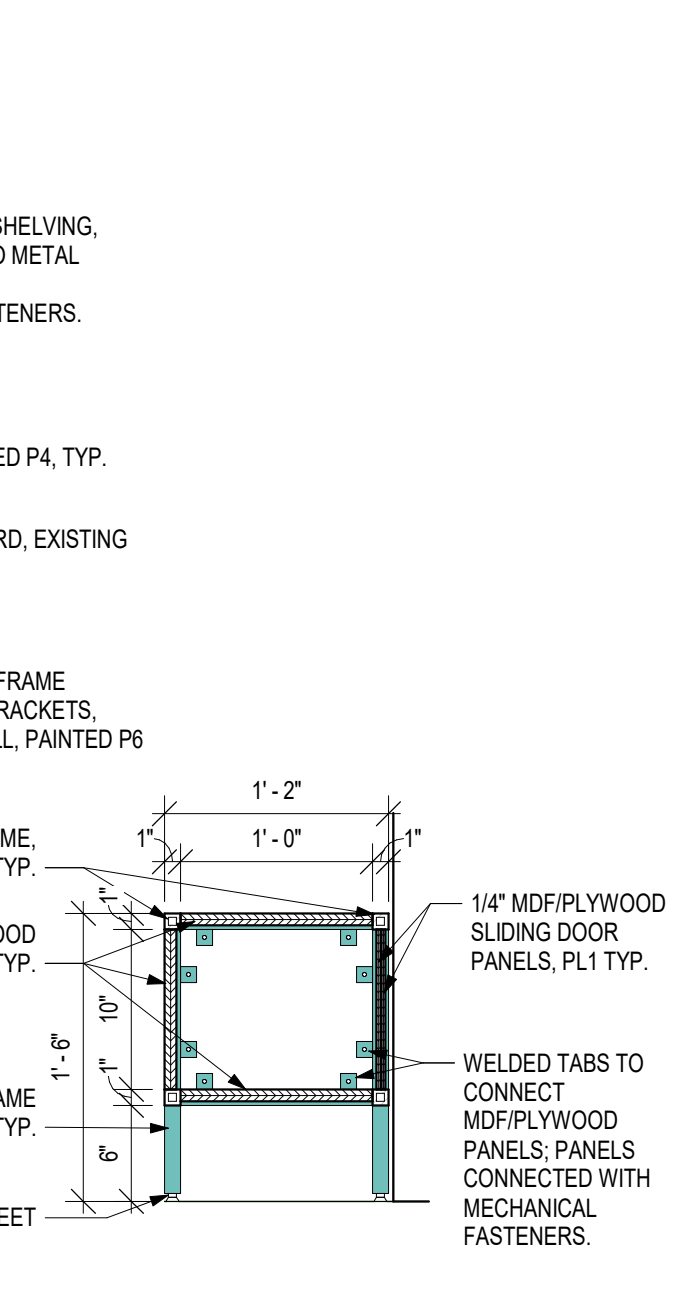
A7 DETAIL SECTION - CASEWORK @ KITCHENETTE
1" = 1'-0"



A4 DETAIL - OFFICE SHELF
1" = 1'-0"



A2 DETAIL - OFFICE SHELF
1" = 1'-0"



A1 DETAIL - CONSOLE
1" = 1'-0"

**GENERAL NOTES:
INTERIOR DETAILS**

1. RE: SHEET G001 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: SHEET G002 ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHTS OF FIXTURES AND ACCESSORIES.
3. RE: A501 FOR FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS.
4. RE: A501 FINISH FLOOR PLANS FOR ADDITIONAL WALL FINISH CLARIFICATIONS.
5. RE: SHEET A501 FOR REVEAL AND CONTROL JOINT DETAILS, WALL PROTECTION DETAILS, AND FLOOR TRANSITION/WALL BASE DETAILS.
6. RE: SHEET A101 FOR TOILET ACCESSORY SCHEDULE.
7. PROVIDE GYPSUM BOARD CONTROL JOINTS AT DOOR HEADERS WHERE EXPOSED FINISHED GYPSUM BOARD EXCEEDS 30 FEET (TYP.), UNLESS SHOWN OTHERWISE. JOINTS TO BE LINED UP WITH BOTH SIDES OF DOOR FRAMES FOR DOORS 4'-0" AND OVER AND ALL DOORS THAT ARE LEAD LINED CONTROL JOINTS NOT NECESSARY AT WALLS WHERE ACoustICAL WALL COVERING IS SPECIFIED.
8. CONTINUE WALL FINISH AS SCHEDULED BEHIND ALL FURNITURE AND EQUIPMENT, INCLUDING UNDER OPEN COUNTERTOPS.
9. TRANSITION ALL WALL AND BASE FINISHES, AND/OR COLOR CHANGES AT INSIDE CORNERS, UNLESS NOTED OTHERWISE. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY.
10. CONTINUE WALL BASE AT ALL WALLS, FURRED OUT COLUMNS & COLUMN COVERS, AND AT ALL CASEWORK TOE KICKS, SIDE PANELS, AND UNDER OPEN COUNTERTOPS, UNLESS NOTED OTHERWISE.
11. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO MILLWORK CASEWORK FABRICATION & INSTALLATION. CONTRACTOR SHALL PROVIDE & INSTALL GROMMETS AT 48" O.C. MAX. AT ALL WORK STATIONS WITH OPEN KNEE SPACE, COORDINATE LOCATIONS DIRECTLY WITH ELECTRICAL DATA. DRAWINGS FOR OUTLET LOCATIONS. COLOR TO BE SELECTED BY ARCHITECT.
12. CONTRACTOR SHALL PROVIDE COUNTERTOP BRACKETS AT OPEN KNEE SPACES WIDER THAN 42" (TYP.), CENTER IN OPEN AREA AND PAINT TO MATCH WALL COLOR, UNLESS NOTED OR SHOWN OTHERWISE.
13. ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE.
14. RE: EQUIPMENT DRAWINGS & SPECS. FOR EQUIPMENT ITEMS SHOWN DASHED, PROVIDED BY EQUIP. CONSULTANT AND/OR SUPPLIED BY OWNER. COORDINATE WITH OTHER TRADES AS NECESSARY.
15. MECH. & ELEC. SYMBOLS AND OUTLETS ARE SHOWN FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH MEP DRAWINGS. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY.

**GENERAL NOTES:
CASEWORK**

1. RE: FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS.
2. ALL MILLWORK CASEWORK CONSTRUCTION SHALL MEET AIA PREMIUM STANDARDS, UNLESS NOTED OR SPECIFIED OTHERWISE.
3. ALL EXPOSED MILLWORK CASEWORK SURFACES SHALL BE FINISHED W/ PLASTIC LAMINATE TO MATCH ADJACENT PLASTIC LAMINATE SURFACES, UNLESS NOTED OTHERWISE.
4. ALL CASEWORK INTERIORS SHALL BE WHITE MELAMINE, UNLESS NOTED OTHERWISE.
5. ALL FILLER PANELS SHALL BE 1/2" INCH WIDE MINIMUM, FINISHED TO MATCH ADJACENT FINISH SURFACES, AND SCRIBED TO FIT ADJACENT WALL, UNLESS NOTED OTHERWISE.
6. ALL BACKSPLASH FINISHES SHALL MATCH COUNTERTOP MATERIAL AND FINISH, UNLESS NOTED OTHERWISE. PLASTIC LAMINATE SIDE BACKSPLASHES TO HAVE SELF EDGE LAMINATE, UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL APPLY CLEAR MILDEW RESISTANT SILICONE SEALANT WHERE BACKSPLASH MEETS WALL AND COUNTERTOP.
8. THE UNDERSIDE OF COUNTERTOPS WITH KNEE OPENINGS, MUST HAVE A WHITE MELAMINE FINISH, UNLESS NOTED OTHERWISE.
9. WATER AND SUPPLY DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

GENERAL STEEL NOTE:

ALL NEW STEEL W-SECTIONS, C-CHANNELS, 1x SQUARE TUBE, AND PERFORATED METAL PANELS WILL BE OWNER-PROVIDED, INCLUDING STEEL FRAMING FOR ALL CASEWORK AND MILLWORK; CASEWORK AND MILLWORK PANELS, HARDWARE, AND INSTALLATION ARE G.C. SCOPE.



LEOK OFFICE RENOVATION

209 SE DOUGLAS
LEE'S SUMMIT, MO 64063

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REVISION DATES:
1 City Comments & 08.08.2023
VE Revisions



PROFESSIONAL SEAL
A713
ISSUE DATE: JULY 17, 2023
COLLINS WEBB #: 23033

INTERIOR ELEVATIONS & DETAILS

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PERMIT SET

MECHANICAL GENERAL NOTES

- A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- B. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISERS AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- C. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, INTERNATIONAL BUILDING CODES, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	OA FLOW (CFM)	AMBIENT DAT (°F)	EXT. S.P. (N.W.C.)	DX COOLING COIL (FDB/WB) (BTU/HR)	SENSIBLE (BTU/HR)	GAS HEAT FUEL	INPUT (BTU/HR)	OUTPUT (BTU/HR)	ELECTRICAL VOLTS/PH/Hz	MOTOR HP	MCA (AMPS)	MOC (AMPS)	APPROX. WEIGHT (LBS)	REMARKS	
1	TRANE	4YCC4048E1	1,675	135	105	X	80/67	46,000	X	NATURAL GAS	90,000	72,900	240/1/60	3/4	31.8	50	600	SEE NOTES.
2	TRANE	4YCC4336E1	1,215	155	105	X	80/67	36,400	X	NATURAL GAS	90,000	72,900	240/1/60	1/2	26.2	40	600	SEE NOTES.

NOTES:
 1) PROVIDE 14" HIGH FACTORY FABRICATED INSULATED ROOF CURB.
 2) SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. OUTSIDE AIR DAMPER SHALL FULLY CLOSE ON UNIT SHUTDOWN.
 3) PROVIDE 5 MINUTE TIME DELAY ON COMPRESSOR RESTART.
 4) PROVIDE OUTSIDE AIR ECONOMIZER.
 5) PROVIDE BAROMETRIC RELIEF DAMPER.
 6) PROVIDE MANUFACTURER'S 7 DAY PROGRAMMABLE THERMOSTAT WITH 4 STAGES OF HEATING AND 2 STAGES OF COOLING. TRANE TCONT302 OR APPROVED EQUAL.
 7) PROVIDE FACTORY MOUNTED AND INTERLOCKED SUPPLY AND RETURN AIR SMOKE DETECTORS.
 8) PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
 9) PROVIDE 2" FILTER RACK AND MERV 8 FILTERS.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	NECK SIZE (L" X W")	FACE SIZE (L" X W")	FRAME TYPE	FINISH	NC	ACCESSORIES	REMARKS
A	PRICE	SDG	EXTRUDED ALUMINUM SUPPLY GRILL	-	(14" X 4")	DUCT	-	<30	OBD	SEE NOTES
B	PRICE	SDG	EXTRUDED ALUMINUM SUPPLY GRILL	-	(7" X 4")	DUCT	-	<30	OBD	SEE NOTES
C	PRICE	SDG	EXTRUDED ALUMINUM SUPPLY GRILL	-	(20" X 4")	DUCT	-	<30	OBD	SEE NOTES
D	PRICE	520	DOUBLE DEFLECTION ADJ. SUPPLY GRILLE	-	(8" X 8")	SURFACE	-	<30	OBD	SEE NOTES
E	PRICE	520	DOUBLE DEFLECTION ADJ. SUPPLY GRILLE	-	(8" X 8")	SURFACE	-	<30	OBD	SEE NOTES
F	PRICE	600	EXHAUST GRILL	-	(12" X 12")	SURFACE	-	<30	OBD	SEE NOTES
G	PRICE	SD575	LINEAR 2-SLOT DIFFUSER	7"8	(48" X 1.5")	LAY-IN	-	<30	OBD	SEE NOTES
H	PRICE	80	EGG CRATE RETURN GRILLE	-	(10" X 10")	SURFACE	-	<30	-	SEE NOTES

ACCESSORIES:
 OBD--OPPOSED BLADE DAMPER, LSP--LINEAR SLOT PLENUM

NOTES:
 1) COORDINATE WITH ARCHITECT FOR DESIRED FINISH.

EXHAUST AND VENTILATION FAN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	DRIVE TYPE	PERFORMANCE AIR FLOW (CFM)	EXT. STATIC (N.W.C.) (CPM)	FAN SPEED (RPM)	SONES	ELECTRICAL VOLTS/PH/Hz	FAN MOTOR HP	ACCESSORIES	APPROX. WEIGHT (LBS)	REMARKS
1	GREENHECK	G-070-VG	DOWNBLAST CENTRIFUGAL	DIRECT	205	0.46	1725	5.7	115/60/1	1/15	AD, BS, RC, WP	100	SEE NOTES
2													
3													
4													
5													

ACCESSORIES:
 AD--MOTORIZED CONTROL DAMPER, BS--BIRD SCREEN, BD--BACKDRAFT DAMPER, DS--DISCONNECT SWITCH, IG--INLET GUARD, MR--WALL MOUNTING RING, RC--PREFABRICATED INSULATED ROOF CURB, SC--PREFABRICATED SOUND ATTENUATING ROOF CURB, WG--WALL GRILLE, WP--NEMA 3R DISCONNECT SWITCH

NOTES:
 1) MODEL NUMBERS ARE GENERAL MODEL NUMBERS FOR BASIS OF DESIGN. MODEL NUMBER MAY NOT INCLUDE ALL ACCESSORIES REQUIRED. SEE SPECIFICATIONS.
 2)

MECHANICAL VENTILATION AIR REQUIREMENTS

Zone/ System	AREA BASIS			OCCUPANCY BASIS					Required Ventilation Air (CFM) (C+FYG)	Design Ventilation Air (CFM)
	A Area (ft²)	B CFM/ft²	C CFM (A x B)	D Persons / 1000 SF	E # of People	F CFM per Person	G Zone Air Distribution Effectiveness			
Large Conf	232	0.06	14	50	12	5	58	0.8	90	
Large Office	205	0.06	12	5	1	5	5	0.8	22	
Small Conf	86	0.06	5	50	4	5	22	0.8	33	
Small Office	90	0.06	5	5	0	5	2	0.8	10	
Total	613								155	155
Break Room	80	0.06	5	25	2	5	10	0.8	19	
Mens Restroom	48									
Open Office	1,077	0.06	65	5	5	5	27	0.8	114	
Womens Restroom	44									
Total	1,249								133	135
Grand Total	1662									290

NOTES:
 OCCUPANCY AND VENTILATION RATES ARE AS REQUIRED PER THE 2018 INTERNATIONAL MECHANICAL CODE (TABLE 403.3).

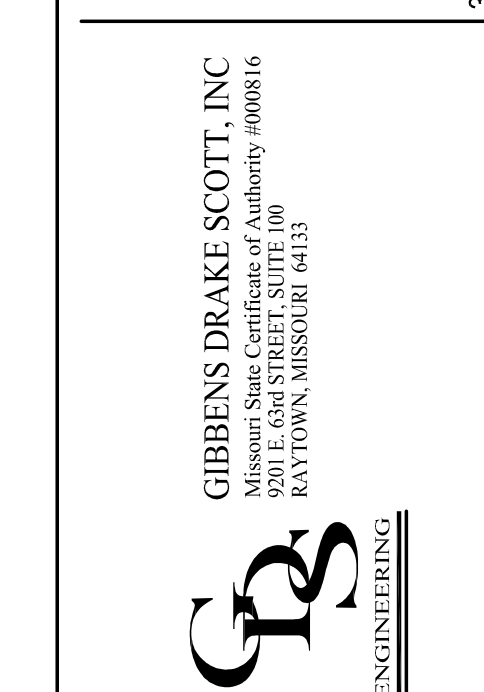
MECHANICAL SYMBOLS

	EXISTING DUCT/PIPE TO REMAIN		UNIT HEATER
	EXISTING PIPE TO REMAIN		ELECTRIC DUCT HEATER IN DUCT
	EXISTING DUCT/PIPE TO BE REMOVED		THERMOSTAT - ELECTRIC
	EXISTING PIPE TO BE REMOVED		HUMIDITY SENSOR
	NEW SHEET METAL DUCTWORK		TEMPERATURE SENSOR
	SUPPLY OR OUTSIDE AIR DUCT		PRESSURE SENSOR
	RETURN AIR DUCT		AREA SMOKE DETECTOR
	EXHAUST AIR DUCT		DUCT SMOKE DETECTOR
	DUCTWORK TRANSITION		CONNECT TO EXISTING
	DUCTWORK TRANSITION - RECTANGULAR TO ROUND		DIFFUSER DESIGNATION, CFM AND NECK SIZE
	INCLINED RISE IN DUCTWORK		ELECTRICAL NOTE DESIGNATION
	INCLINED DROP IN DUCTWORK		PLUMBING NOTE DESIGNATION
	SUPPLY DUCT ELBOW UP OR DOWN		HVAC NOTE DESIGNATION
	RETURN DUCT ELBOW UP OR DOWN		DEMOLITION NOTE DESIGNATION
	EXHAUST DUCT ELBOW UP OR DOWN		REVISION DESIGNATION
	DUCT ELBOW WITH FIXED TURNING VANES		MECHANICAL EQUIPMENT DESIGNATION
	SPLITTER DAMPER		DETAIL DESIGNATION
	DUCT BRANCH TAKE-OFF		SECTION DESIGNATION
	ROUND SPIN-IN WITH DAMPER		
	SQUARE TO ROUND TAP WITH DAMPER		
	FLEXIBLE DUCT CONNECTION		
	FIRE DAMPER	AFF	ABOVE FINISHED FLOOR
	SMOKE DAMPER	AHU	AIR HANDLING UNIT
	COMBINATION FIRE/SMOKE DAMPER	BDD	BACKDRAFT DAMPER
	ELECTRIC OPERATED DAMPER	BOD	BOTTOM OF DUCT
	PNEUMATIC OPERATED DAMPER	BHP	BRAKE HORSEPOWER
	BACKDRAFT DAMPER	BTU	BRITISH THERMAL UNIT
	VOLUME DAMPER	CFM	CUBIC FEET PER MINUTE
	FLEXIBLE DUCTWORK	DB	DRY BULB
	SUPPLY DIFFUSER	EAT	ENTERING AIR TEMPERATURE
	SUPPLY DIFFUSER WITH 3-WAY THROW	ESP	EXTERNAL STATIC PRESSURE
	SUPPLY DIFFUSER WITH 2-WAY THROW	EWT	ENTERING WATER TEMPERATURE
	SUPPLY DIFFUSER WITH 1-WAY THROW	FD	FIRE DAMPER
	SLOT DIFFUSER	FOB	FLAT ON BOTTOM
	ROUND SUPPLY DIFFUSER	FOT	FLAT ON TOP
	SIDEWALL MOUNTED SUPPLY REGISTER	GPM	GALLONS PER MINUTE
	RETURN GRILLE	HZ	FREQUENCY
	EXHAUST GRILLE	LAT	LEAVING AIR TEMPERATURE
	ROOF MOUNTED EXHAUST FAN	LWT	LEAVING WATER TEMPERATURE
	CEILING MOUNTED EXHAUST FAN	MD	MANUAL DAMPER
	IN-LINE CABINET FAN	NC	NOISE CRITERIA
	FAN TERMINAL UNIT	POD	PNEUMATIC OPERATED DAMPER
	VAV TERMINAL UNIT	PD	PRESSURE DROP
	AIR HANDLING UNIT	PSI	POUNDS PER SQUARE INCH
	ROOFTOP UNIT	RTU	ROOFTOP UNIT
		SD	SMOKE DAMPER
		TSP	TOTAL STATIC PRESSURE
		TYP	TYPICAL
		WC	WATER COLUMN
		WB	WET BULB

NOTE: THIS PROJECT MAY NOT USE EVERY SYMBOL OR DEVICE APPEARING ON THIS LEGEND.

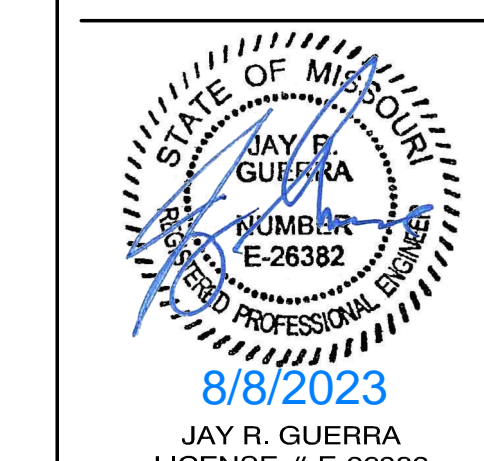
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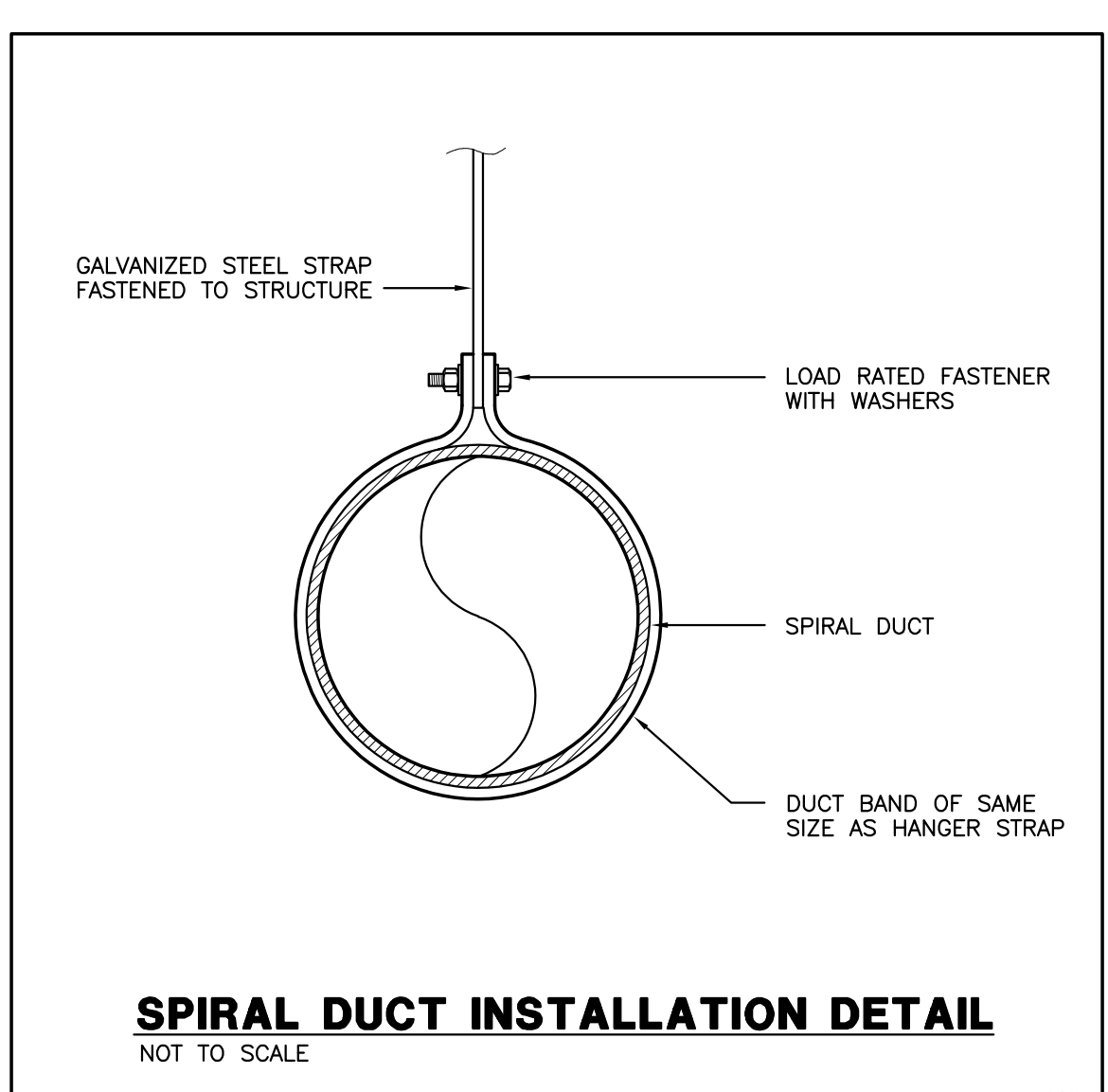
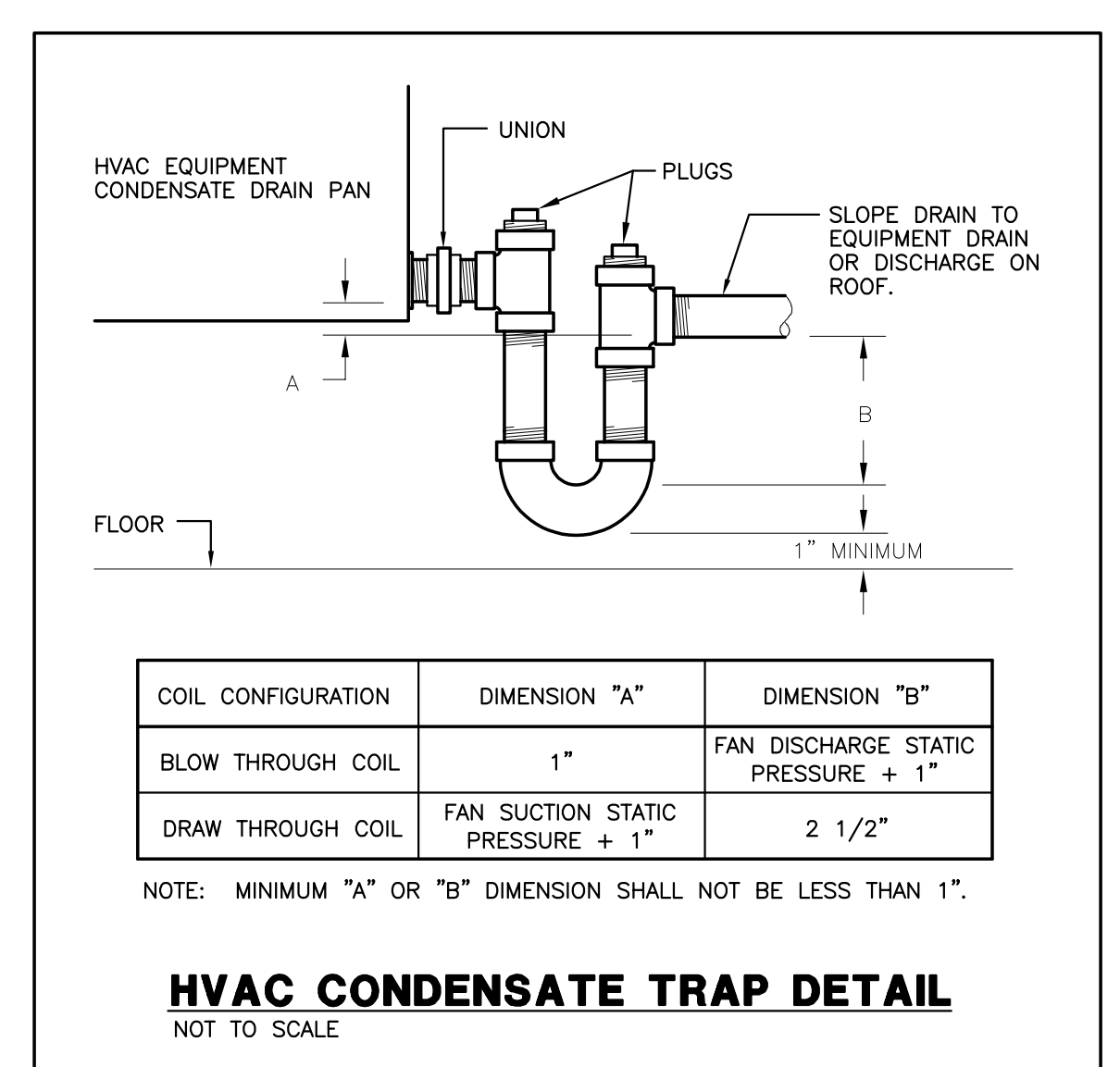
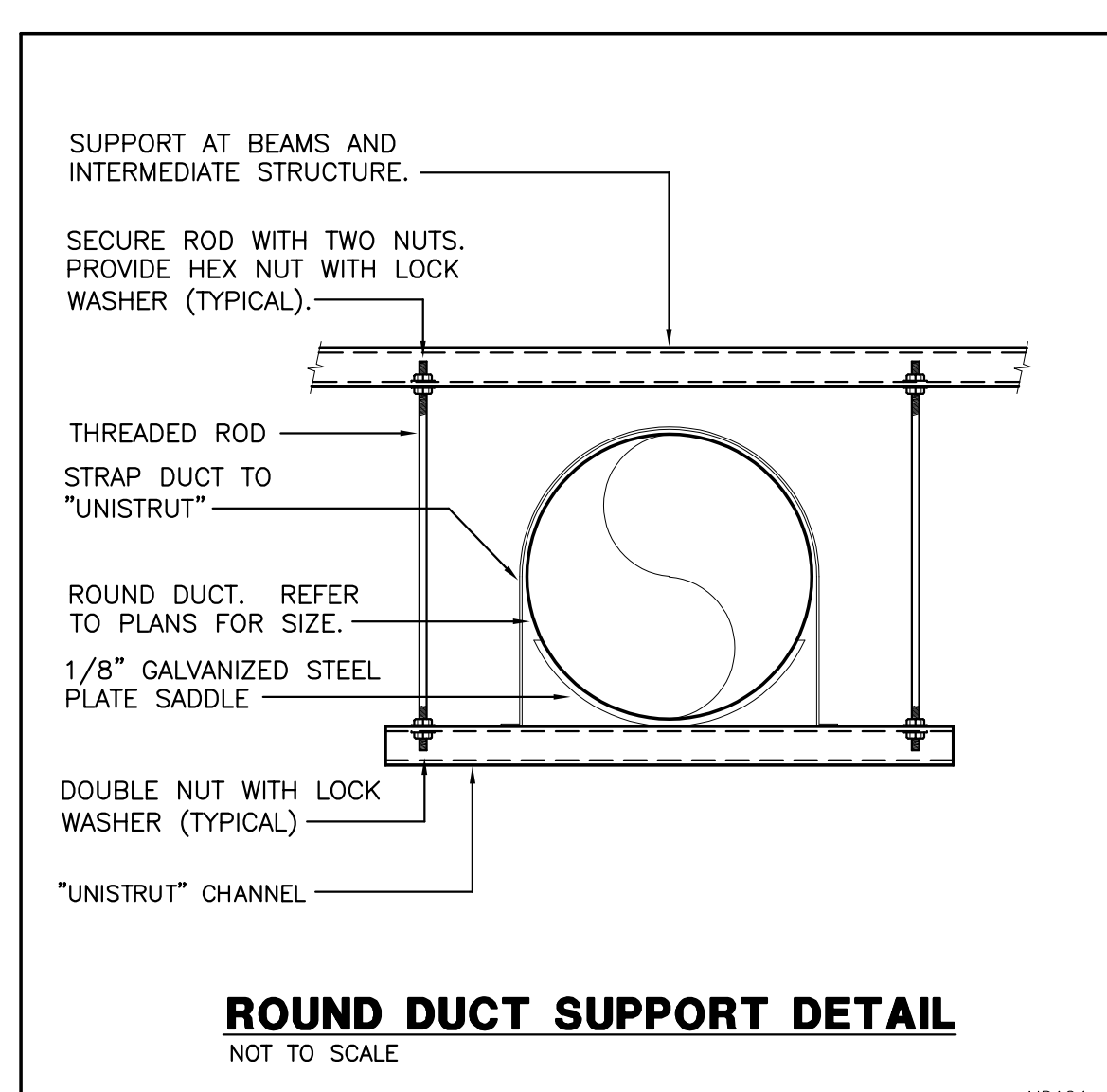
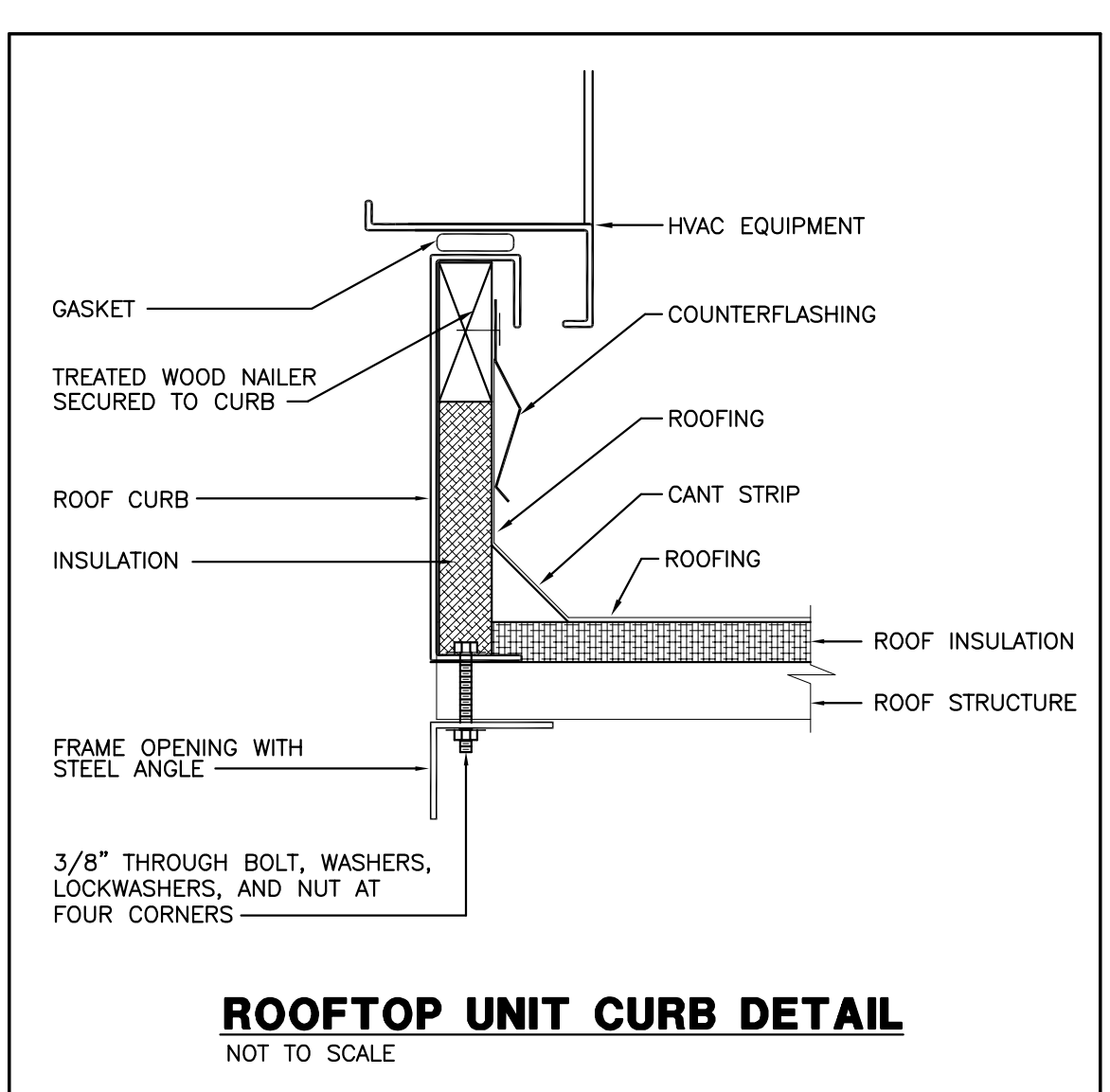
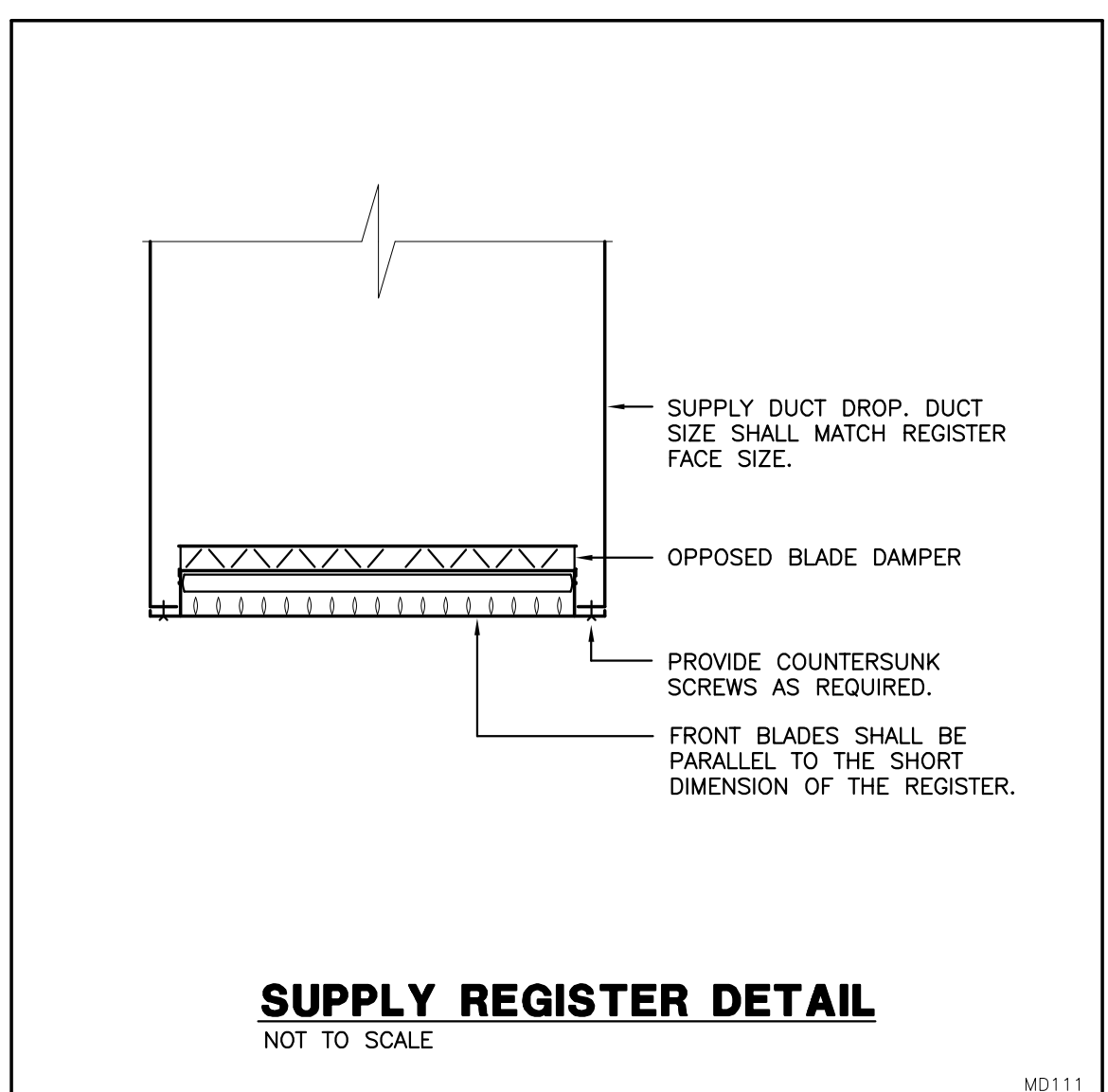
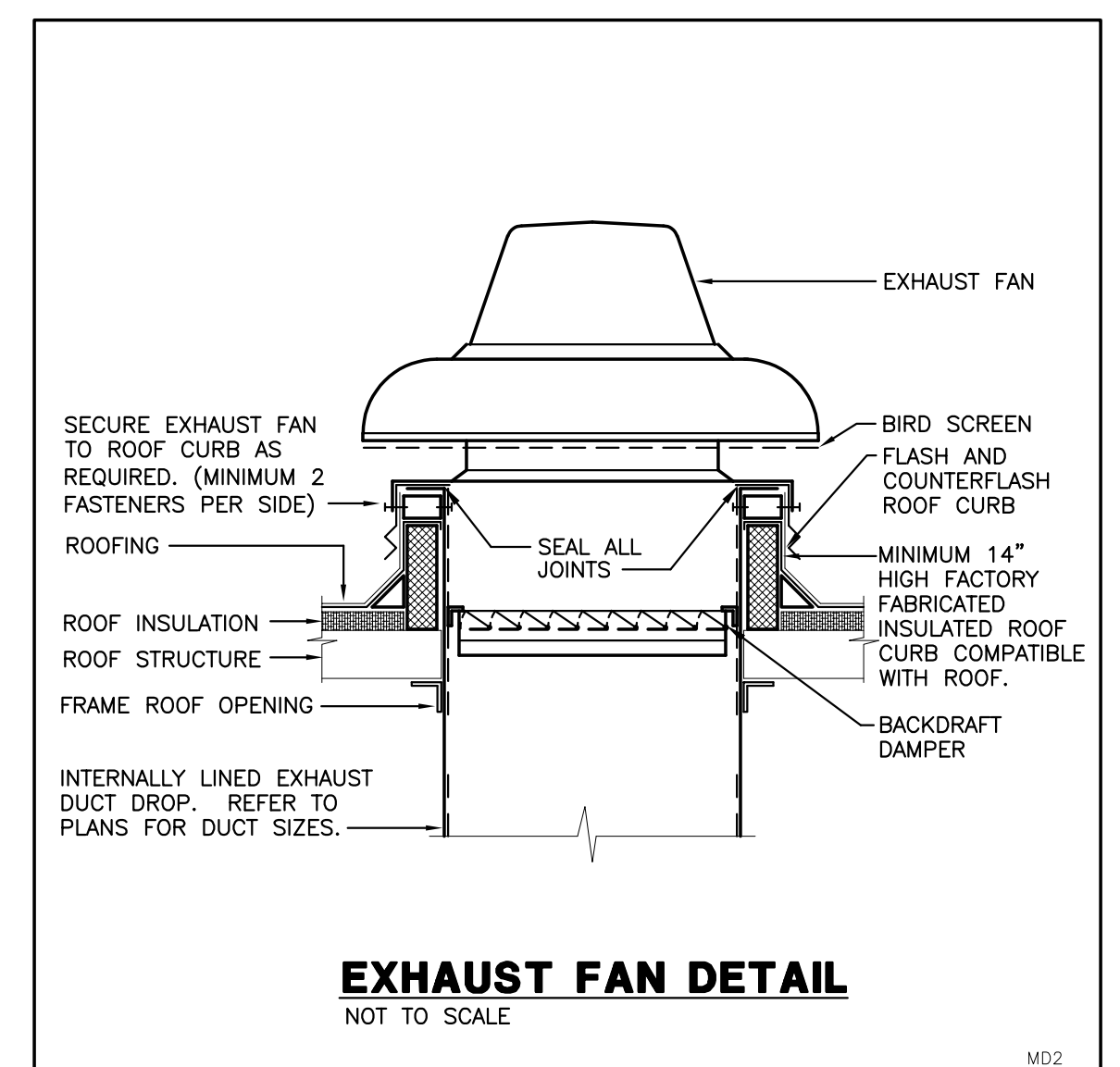
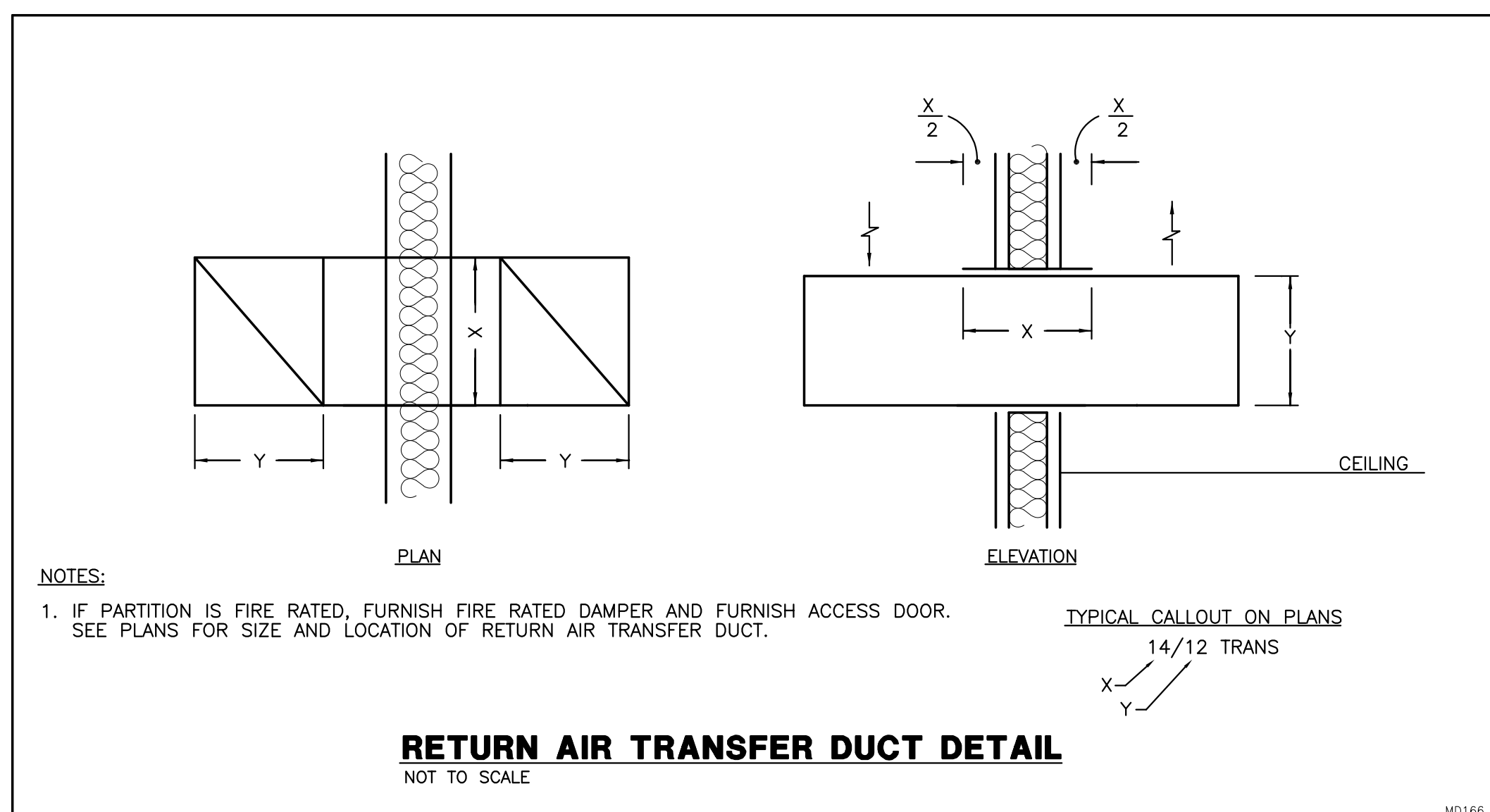
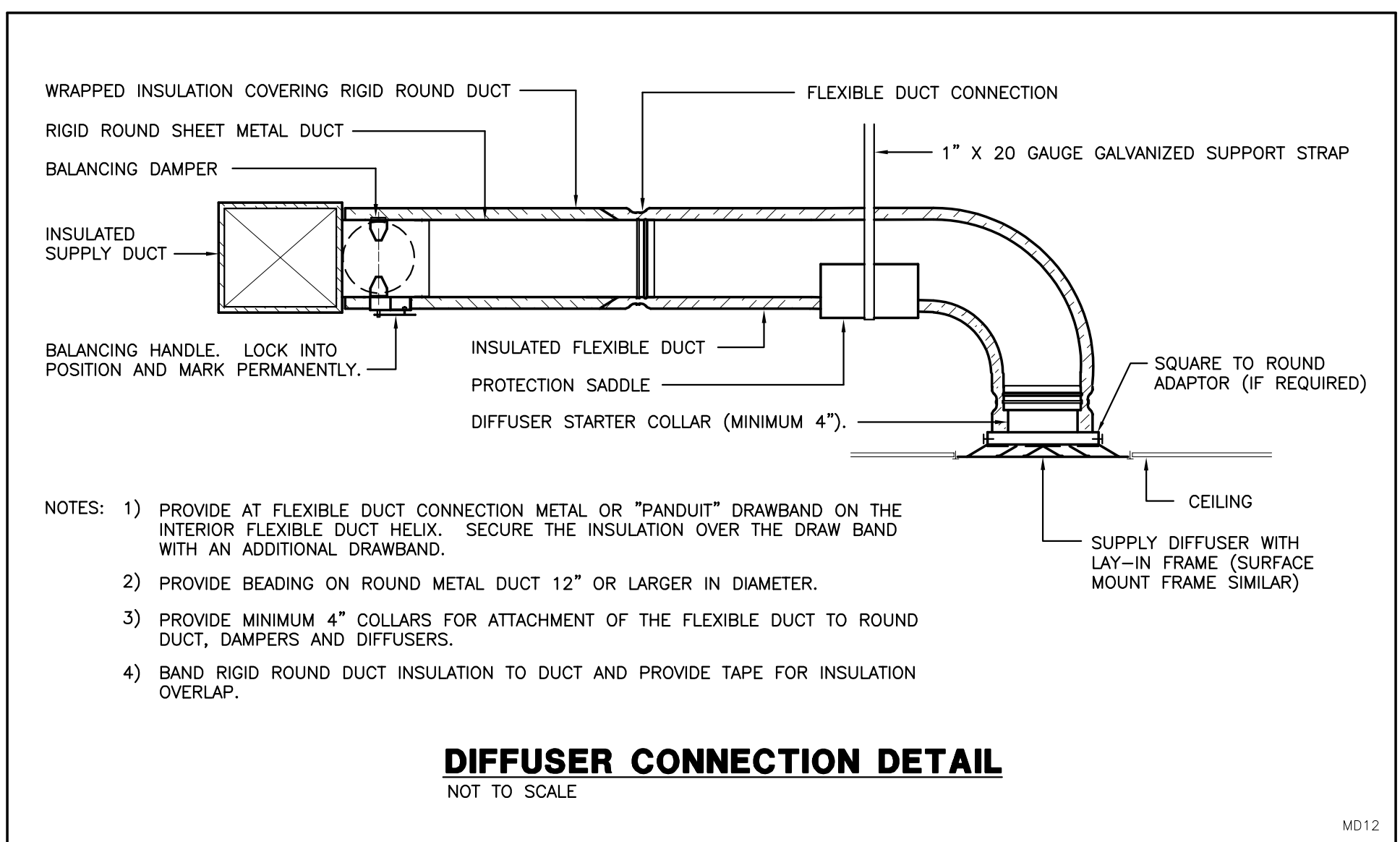
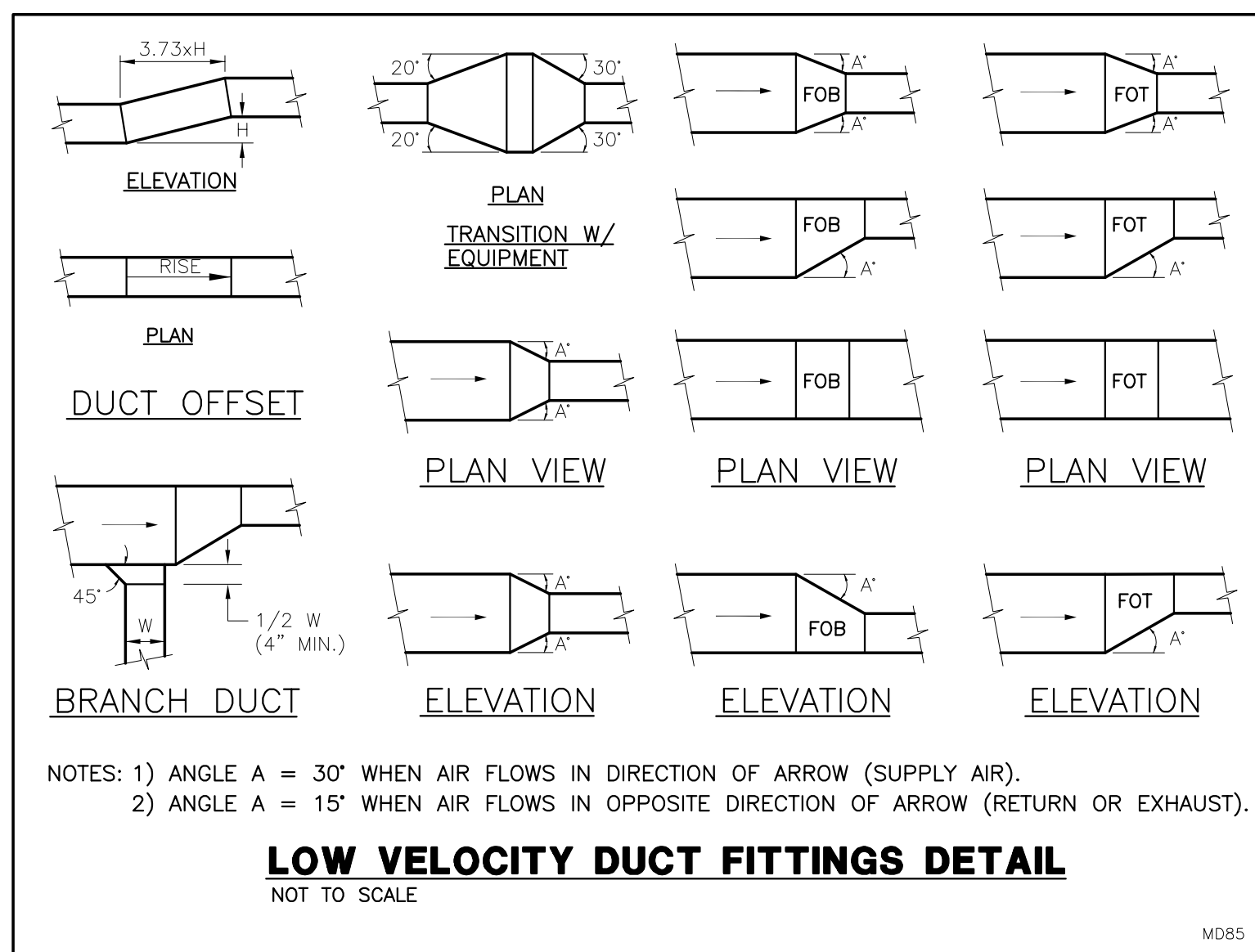


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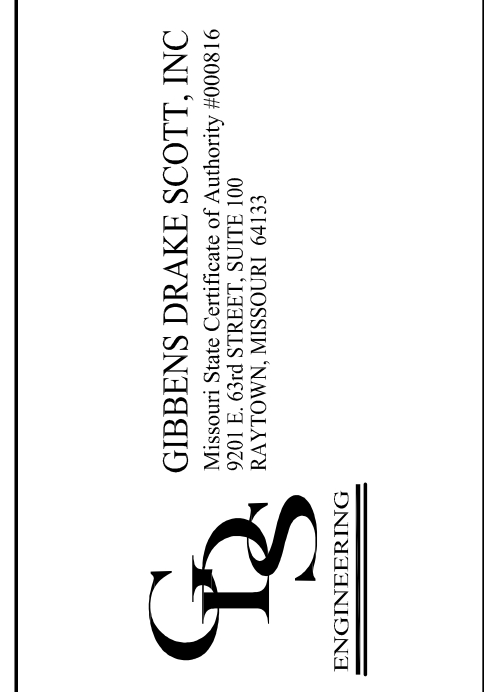
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 COLLINS WEBB #: 23033



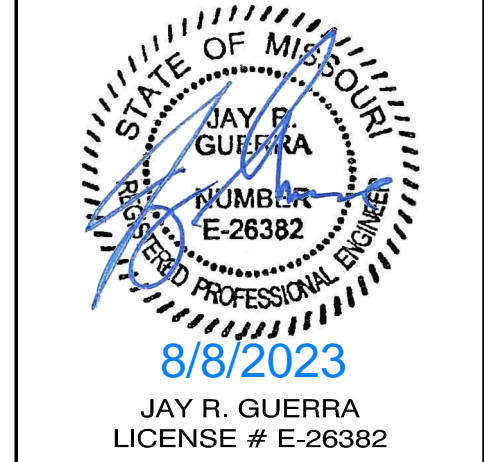
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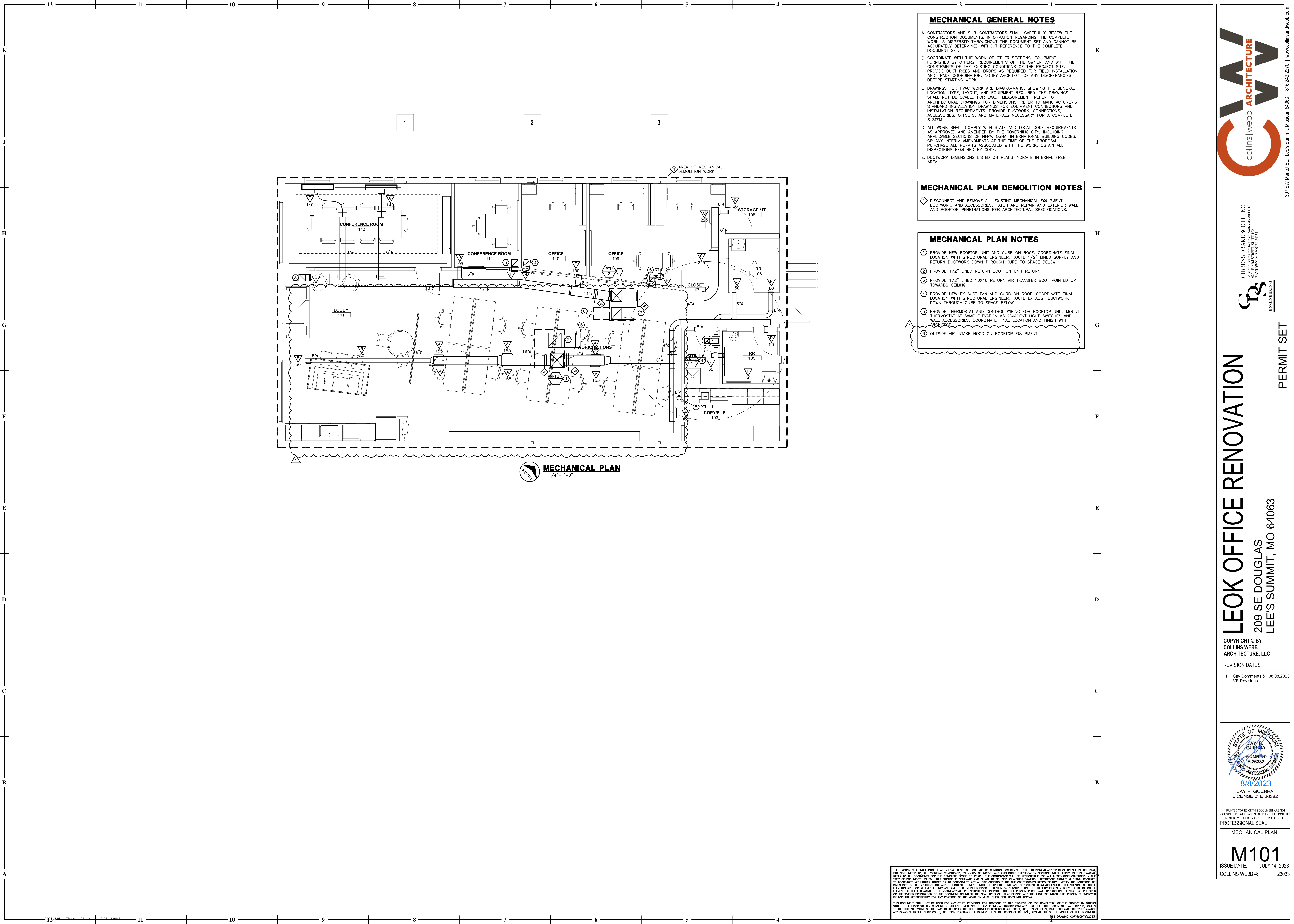


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MECHANICAL DETAILS

M001
ISSUE DATE: JULY 14, 2023
COLLINS WEBB #: 23033

PERMIT SET



MECHANICAL GENERAL NOTES

A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND CROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

C. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, INTERNATIONAL BUILDING CODES, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

E. DUCTWORK DIMENSIONS LISTED ON PLANS INDICATE INTERNAL FREE AREA.

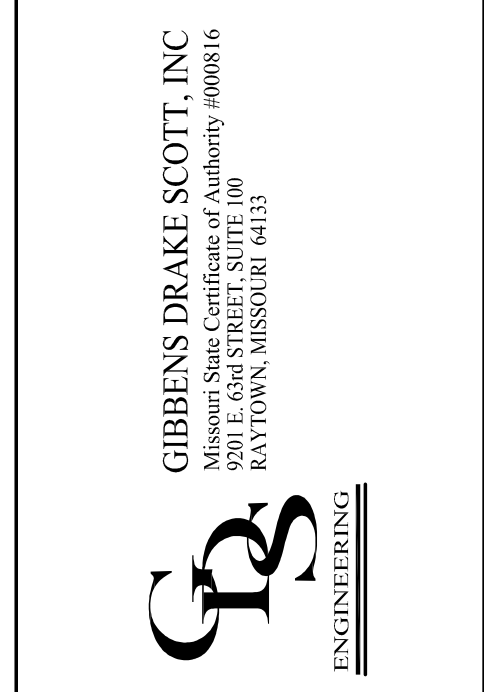
MECHANICAL PLAN DEMOLITION NOTES

DISCONNECT AND REMOVE ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND ACCESSORIES. PATCH AND REPAIR AND EXTERIOR WALL AND ROOFTOP PENETRATIONS PER ARCHITECTURAL SPECIFICATIONS.

MECHANICAL PLAN NOTES

- PROVIDE NEW ROOFTOP UNIT AND CURB ON ROOF. COORDINATE FINAL LOCATION WITH STRUCTURAL ENGINEER. ROUTE 1/2" LINED SUPPLY AND RETURN DUCTWORK DOWN THROUGH CURB TO SPACE BELOW.
- PROVIDE 1/2" LINED RETURN BOOT ON UNIT RETURN.
- PROVIDE 1/2" LINED 10X10 RETURN AIR TRANSFER BOOT POINTED UP TOWARDS CEILING.
- PROVIDE NEW EXHAUST FAN AND CURB ON ROOF. COORDINATE FINAL LOCATION WITH STRUCTURAL ENGINEER. ROUTE EXHAUST DUCTWORK DOWN THROUGH CURB TO SPACE BELOW.
- PROVIDE THERMOSTAT AND CONTROL WIRING FOR ROOFTOP UNIT. MOUNT THERMOSTAT AT SAME ELEVATION AS ADJACENT LIGHT SWITCHES AND WALL ACCESSORIES. COORDINATE FINAL LOCATION AND FINISH WITH ARCHITECT.
- OUTSIDE AIR INTAKE HOOD ON ROOFTOP EQUIPMENT.

MECHANICAL PLAN
1/4"=1'-0"

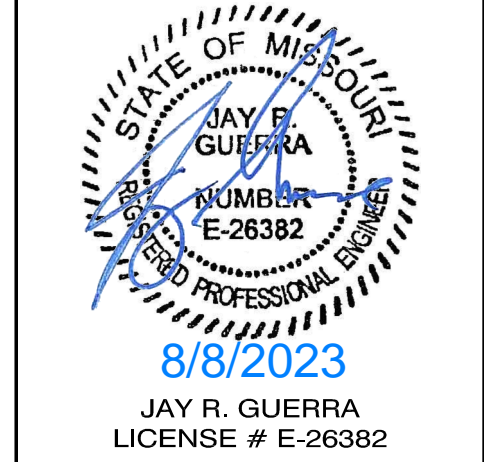


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PROFESSIONAL SEAL

MECHANICAL PLAN

M101
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MECHANICAL GENERAL PROVISIONS

A. ALL APPLICABLE PROVISIONS OF THE CONTRACT DOCUMENTS SHALL GOVERN DIVISION 23 AND 26. THE MECHANICAL/ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MECHANICAL/ELECTRICAL EQUIPMENT, SYSTEMS AND SYSTEMS AND COMPONENTS REQUIRED FOR COMPLETE AND WORKING INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

STANDARDS, REGULATIONS AND CODES

A. THE WORK SHALL COMPLY WITH THE EDITION OF THE APPLICABLE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE OF ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION, WHERE QUANTITIES, SIZES, OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES, ACCESSIBLE TO THE ARCHITECT/ENGINEER, THE NATIONAL ELECTRICAL CODE AND UNIFORM PLUMBING AND MECHANICAL CODES SHALL APPLY TO THIS WORK.

B. THE CONTRACTOR SHALL COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTIONS OF SERVICES. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED THEREWITH.

C. THE MECHANICAL/ELECTRICAL CONTRACTOR SHALL BE LICENSED TO PERFORM MECHANICAL/ELECTRICAL WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED.

D. ALL PRODUCTS AND TYPES OF CONSTRUCTION SHALL MEET OR EXCEED THE LATEST EDITION OF APPLICABLE STANDARDS OF MANUFACTURER, TESTING, PERFORMANCE AND INSTALLATION.

LOCAL CONDITIONS

A. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE LOCAL CONDITIONS AND EXISTING INSTALLATIONS. LOCAL CONDITIONS SHALL NOT BE DEEMED TO BE NEARLY IDENTICAL TO THOSE OF THE ARCHITECT/ENGINEER'S HOME OFFICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

B. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE HIMSELF WITH THE TYPE OF CONSTRUCTION, MATERIALS, AND EQUIPMENT TO BE USED FOR ALL WORK AND HOW IT WILL AFFECT THE INSTALLATION OF HIS CONTRACTOR'S WORK.

C. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE MADE SUCH EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, TO HAVE MADE ALLOWANCE THEREFOR IN HIS BID, AND TO BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

A. PROVIDE UTILITY SERVICES TO THE BUILDING INCLUDING WATER, NATURAL GAS, SANITARY SEWER, STORM SEWERS, AND ELECTRICAL. COORDINATE WITH THE UTILITY THE EXACT RESPONSIBILITY FOR TAPS, METERS, DRIVING TO METERS, ISOLATION STANDARDS AND PROCEDURES, AND INCLUDE ALL CHARGES ASSOCIATED THEREWITH IN THE BASE BID. COMPLY WITH ALL UTILITY REQUIREMENTS FOR PRELIMINARY TAP, METER PITS, EXCAVATION, EMBEDMENT AND BACKFILL.

B. CONNECT TO EXISTING UTILITY SERVICES WITHIN THE BUILDING INCLUDING WATER, NATURAL GAS, SANITARY SEWER, STORM SEWERS AND ELECTRICAL. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL UTILITIES.

C. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, AND NOISE LEVEL, ETC.

D. CUTTING AND PATCHING

A. ALL NECESSARY CUTTING, DRILLING AND PATCHING SHALL BE PROVIDED BY THIS CONTRACTOR. STRUCTURE MEMBERS SHALL NOT BE CUT WITHOUT A WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. ALL AREAS DISTURBED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE NEARLY REPAIRED AND RESTORED TO THE CONDITION EXISTING PRIOR TO THE COMMENCEMENT OF WORK.

B. REPAIR ANY DAMAGE RESULTING FROM CONSTRUCTION INCLUDING BUT NOT LIMITED TO FINISHES AND FIRE PROOFING MEMBRANES. ALL REPAIRS MUST MATCH EXISTING CONDITIONS.

C. CONDUCT TO EXISTING UTILITY SERVICES WITHIN THE BUILDING INCLUDING WATER, NATURAL GAS, SANITARY SEWER, STORM SEWERS AND ELECTRICAL. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL UTILITIES.

D. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

E. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OPERATION, SERVICE AND MAINTENANCE OF ALL NEW EQUIPMENT DURING CONSTRUCTION AND PRIOR TO ACCEPTANCE BY THE OWNER OF THE COMPLETED PROJECT. WARRANTY PERIODS SHALL NOT COMMENCE UNTIL FINAL ACCEPTANCE BY THE OWNER.

F. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

G. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

H. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

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K. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

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M. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

N. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

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P. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

Q. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

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Z. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE ALL NECESSARY WATER, WATER AND SEWER REQUIRED FOR THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

SUBSTITUTIONS

A. THE MATERIALS, PRODUCTS AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS ESTABLISH A STANDARD OF QUALITY TO BE MET BY ANY PROPOSED SUBSTITUTION.

B. CONTRACTOR'S BIDS SHALL BE BASED ON THE MATERIAL MENTIONED OR SPECIFIED, AND ANY PROPOSAL FOR A SUBSTITUTION SHALL BE MADE IN WRITING TO THE ARCHITECT/ENGINEER ALLOWING ADEQUATE TIME FOR APPROPRIATE ACTION. THE PRODUCTS OF OTHER MANUFACTURERS MAY BE ACCEPTED IF IN THE OPINION OF THE ARCHITECT/ENGINEER, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED AND WILL SAVE WITH EQUAL EFFICIENCY AND DURABILITY. THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED, THE BURDEN OF PROOF OF EQUALITY IS UPON THE PROPOSER.

C. REFER TO DIVISION 1 REQUIREMENTS FOR SUBSTITUTION PROCEDURES.

D. WHENEVER SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS, THE CONTRACTOR SHALL INCLUDE ALL ITEMS OF COST OF THE REVISED DESIGN AND CONSTRUCTION.

E. TEMPORARY HEATING AND COOLING

A. PROVIDE COMPLETE AND FREQUENT PERIODIC MAINTENANCE OF HEATING AND COOLING EQUIPMENT AND ASSOCIATED PERIPHERAL EQUIPMENT, IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. SHOULD IT BE USED FOR HEATING OR COOLING PURPOSES PRIOR TO SUBSTANTIAL COMPLETION, THIS INCLUDES FILTER CHANGES, WATER TREATMENT CHEMICALS, LUBRICATION, ETC.

B. ANY DAMAGE TO THE EQUIPMENT OR DAMAGE TO ANY PART OF THE FACILITY, RESULTING FROM TEMPORARY OPERATION OF THE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

C. USE OF THE EQUIPMENT FOR TEMPORARY HEATING AND COOLING SHALL NOT AFFECT THE STARTING DATE OF THE ONE-YEAR WARRANTY AND SERVICE REQUIREMENTS SPECIFIED ELSEWHERE IN THE SPECIFICATIONS. AT SUBSTANTIAL COMPLETION, ALL EQUIPMENT SHALL BE OPERATING IN LIKE NEW CONDITION. REPLACE ALL FILTERS WITH CLEAN, UNUSED FILTERS AS SPECIFIED.

DISCREPANCIES IN DOCUMENTS

A. WHERE DRAWINGS OR SPECIFICATIONS CONFLICT OR ARE UNCLEAR, ADVISE ARCHITECT IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, THE ARCHITECT/ENGINEER'S INTERPRETATION SHALL GOVERN. WHERE NECESSARY, THE ARCHITECT/ENGINEER'S COMPENSATION SHALL BE PERMITTED DUE TO DISCREPANCIES OR UNCLARITIES THIS PROVIDED.

B. WHERE DRAWINGS OR SPECIFICATIONS DO NOT CONFORM WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, OR WITH APPLICABLE CODES AND STANDARDS, ALERT ARCHITECT/ENGINEER IN WRITING BEFORE INSTALLATION. OTHERWISE, MAKE CHANGES IN INSTALLED WORK AS ARCHITECT/ENGINEER REQUIRES WITHIN CONTRACT PRICE.

C. IF THE REQUIRED MATERIAL, INSTALLATION, OR WORK CAN BE INTERPRETED DIFFERENTLY FROM DRAWING, OR BETWEEN DRAWINGS, OR BETWEEN SPECIFICATIONS, THE CONTRACTOR SHALL PROVIDE THAT MATERIAL, INSTALLATION, OR WORK IS OF THE HIGHER STANDARD.

D. IT IS THE REQUIREMENT OF THESE CONTRACT DOCUMENTS TO HAVE THE CONTRACTOR PROVIDE NECESSARY INFORMATION TO THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT/ENGINEER OF ANY SITUATIONS IN THE DOCUMENTS WHERE NECESSARY INFORMATION IS MISSING. IN CASES SUCH AS WHERE THE CONTRACTOR HAS FAILED TO NOTIFY THE ARCHITECT/ENGINEER OF THE SITUATION IN ACCORDANCE WITH PARAGRAPH (A) ABOVE, THE CONTRACTOR SHALL PROVIDE THE SPECIFIC COMPONENT OR SUBSYSTEM WITH ALL PARTS NECESSARY FOR THE INTENDED USE, FULLY COMPLETE AND OPERATIONAL, AND INSTALLED IN WORKMANLIKE MANNER EITHER CONCEALED OR EXPOSED FOR THE DESIGN INTENT.

E. IN CASES COVERED BY PARAGRAPH (D) ABOVE, WHERE THE CONTRACTOR BELIEVES HE NEEDS ENGINEERING GUIDANCE, HE SHALL SUBMIT A SKETCH IDENTIFYING HIS PROPOSED SOLUTION AND THE ARCHITECT SHALL REVIEW, NOTE IF NECESSARY, AND APPROVE THE SKETCH.

MODIFICATIONS IN LAYOUT

A. HVAC, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. VERIFY AND COORDINATE SPACES IN WHICH WORK OF THIS SECTION WILL BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

B. IN ORDER TO OBTAIN THE ARCHITECT'S DESIRED ESTHETICS IN SPACES USED BY BUILDING OCCUPANTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

C. CHECK CONTRACTOR DRAWINGS AS WELL AS SHOP DRAWINGS OF ALL SUBCONTRACTORS TO VERIFY FACTORY WIRE TERMINALS WITH OVERLOAD RELAYS AND TRANSFORMERS AS REQUIRED. MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS. ALL PIPING, DUCT, CONDUIT, AND ASSOCIATED COMPONENTS TO BE AS TIGHT TO UNDERSIDE OF STRUCTURE AS POSSIBLE.

E. MAKE REASONABLE MODIFICATIONS IN LAYOUT AND COMPONENTS TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND TO PROVIDE FOR THE MOST ECONOMICAL INSTALLATION. REFER TO DIVISION 1 REQUIREMENTS FOR REQUEST FOR INFORMATION SUBMISSION PROCEDURES.

F. WHERE CONFLICTS OR POTENTIAL CONFLICTS EXIST AND ENGINEERING GUIDANCE IS REQUIRED, SUBMIT SKETCH OF PROPOSED RESOLUTION TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

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J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

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M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

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OPERATING AND MAINTENANCE BROCHURE

A. AT THE COMPLETION OF THE PROJECT, EACH CONTRACTOR SHALL PROVIDE THREE (3) HARD BOUND VOLUMES OF MANUALS CONTAINING OPERATING SERVICE AND LUBRICATION INSTRUCTIONS, AND PARTS LISTS FOR ALL MAJOR EQUIPMENT AND MANUFACTURERS WARRANTIES OR WARRANTIES.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

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G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

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PIPING IN ELECTRICAL ROOMS

A. NO RISERS EXCEPT SPECIFICALLY NOTED OTHERWISE WILL BE PERMITTED IN ELECTRICAL ROOMS. IN ROOMS, WHERE PIPING IS INDICATED OVER ELECTRICAL EQUIPMENT, A SUITABLE GALVANIZED SHEETMETAL PAN OR GUTTER PITCH TO THE DRAINAGE SYSTEM SHALL BE PROVIDED.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, TAXES, AND SERVICES, AND SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH THE COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

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ELECTRIC WATER HEATER SCHEDULE													
MARK △ EWH	MANUFACTURER	MODEL NO.	TYPE	TANK LINING	STORAGE (GALLONS)	RECOVERY GAL/HR	TEMP RISE °F	ELECTRICAL					REMARKS
								KW	VOLT	Ø	HZ	AMPS	
EWH-1	LOCHINVAR	LCA-20(6)	ELECTRIC	GLASS	20	25	100	6	240	1	60	25	SEE NOTES.

NOTES:
 1. PROVIDE ONE EXPANSION TANK WITH ASME RATING AND CAPACITY OF 10 GALS. AMTROL THERM-X-ROL ST-25V-C.
 2. SET OPERATING TEMPERATURE OF WATER HEATER AT 140°F AND CIRCULATE 140°F HOT WATER THRU SYSTEM. PROVIDE POINT OF USE MIXING VALVES ON HOT WATER SUPPLY TO FAUCETS.
 3. PROVIDE A 210°F TEMPERATURE AND 150 PSI PRESSURE RELIEF VALVE WITH TEST LEVER SIZED WITH AGA/CGA TEMPERATURE STEAM RATING 10% OVER HEATER INPUT.

PUMP SCHEDULE												
MARK △ PP	MANUFACTURER	MODEL	TYPE	DESIGN CONDITIONS			CONTROL HEAD (FT)	MOTOR DATA		ELECTRICAL	SERVICE	REMARKS
				FLUID TEMP (°F)	FLOW (GPM)	PRESSURE HEAD (FT)		MOTOR RPM	MOTOR WATTS			
PP-1	BELL & GOSSETT	ECCORC 20-18	INLINE CIRCULATOR	140	4	10	3	3638	70	120/1/60	DOMESTIC WATER CIRCULATION	NOTES 1,2,&3

NOTES:
 1) FURNISH COMBINATION MOTOR STARTER/DISCONNECT SWITCH TO ELECTRICAL CONTRACTOR FOR INSTALLATION.
 2) PROVIDE CONTROL FOR DOMESTIC HOT WATER CIRCULATION TO MAINTAIN A MINIMUM OF 1.35°F RETURN WATER TEMPERATURE.
 3) PROVIDE ISOLATION VALVES, STRAINER, AND CHECK VALVE. REFER TO DETAIL.

GENERAL PLUMBING DEMO NOTES

CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISERS AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

AFTER REMOVING PIPING SUSPENDED FROM STRUCTURE ABOVE CEILING, AND DOWN IN PARTITIONS TO SERVE FIXTURE AND EQUIPMENT - REPAIR ALL WALLS, CEILINGS, AND FLOORS, THAT ARE TO REMAIN AFTER THE REMODELING IS FINISHED.

ALL PIPING NOT EXISTING TO REMAIN SHALL BE DISCONNECTED AND REMOVED FROM EXISTING PLUMBING SYSTEM.

ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, INTERNATIONAL BUILDING CODES, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

PLUMBING SYMBOLS LEGEND	
---	EXISTING TO REMAIN
- - - -	EXISTING TO BE REMOVED
—	COLD WATER (CW)
—	HOT WATER (HW)
—	HOT WATER RECIRCULATION (HWC)
— SAN	SANITARY WASTE, ABOVE GRADE
— SAN	SANITARY WASTE, BELOW GRADE
— ST	STORM LINE, ABOVE GRADE
— ST	STORM LINE, BELOW GRADE
— V	PLUMBING VENT
D	INDIRECT DRAIN
UP/DN	PITCH UP/DN IN FLOW OF ARROW
→	FLOW ARROW
T	TEMPERED WATER
HB	HOSE BIBB (HB) OR WALL HYDRANT (WH)
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
CO	CLEANOUT
FD	FLOOR DRAIN, ROUND
FS	FLOOR SINK
E	ELBOW DOWN
EL	ELBOW UP
TEE D	TEE DOWN
TEE U	TEE UP
EC	END CAP
CC	CHECK VALVE
RED C	REDUCER - CONCENTRIC
RED E	REDUCER - ECCENTRIC
S	SHUT-OFF VALVE
UN	UNIT - SCREWED
PP	DEMOLITION PLUMBING PLAN NOTE
PL	PLUMBING PLAN NOTE
FP	FIRE PROTECTION PLAN NOTE
FF	FIXTURE IDENTIFICATION
RI	REVISION NOTE
PC	POINT OF CONNECTION NEW/EXISTING
AF/AFG	ABOVE FINISHED FLOOR/GRADE
CW	COLD WATER
D	DRAIN
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FW	FILTERED WATER
GD	GARBAGE DISPOSER
HW	HOT WATER
HWC	HOT WATER RECIRCULATION
IW	INDIRECT WASTE
L	LAVATORY
MB	MOP BASIN
MV	MIXING VALVE
NPCW	NON-POTABLE COLD WATER
S	SINK
SAN	SANITARY WASTE
T	TEMPERED HOW WATER
TR	TEMPERED HOT WATER RETURN
UR	URINAL
WC	WATER CLOSET
WH	WALL HYDRANT

NOTE: NOT ALL SYMBOLS AND ABBREV. ARE APPLICABLE TO THIS PROJECT.

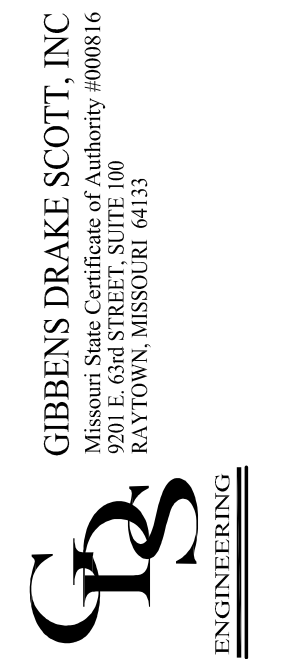
PLUMBING FIXTURE SCHEDULE			
MARK	MANUF.	MODEL NO.	DESCRIPTION
FD-1	SIOUX CHIEF	822 SERIES	FINISH-LINE HALO SYSTEM, ENAMEL-COATED DUCTILE IRON BODY WITH NO-HUB CONNECTION, WITH 18 GAUGE STAINLESS STEEL DECK MOUNTING FLANGE 9 1/2" IN DIAMETER, WITH BRONZE HEEL-PROOF GRATE WITH VANDAL PROOF SCREWS. WITH 0" TO 3/4" ADJUSTABLE STRAINER. FOR USE IN SUSPENDED SLABS WITH TOP OF DRAIN FLUSH WITH FINISHED FLOOR.
FCO	SIOUX CHIEF	822 SERIES	FINISH-LINE HALO SYSTEM, ENAMEL-COATED DUCTILE IRON BODY WITH NO-HUB CONNECTION, WITH 18 GAUGE STAINLESS STEEL DECK MOUNTING FLANGE 9 1/2" IN DIAMETER, WITH BRONZE FLOOR CLEANOUT COVER WITH VANDAL PROOF SCREWS. WITH 0" TO 3/4" ADJUSTABLE STRAINER. FOR USE IN SUSPENDED SLABS WITH TOP OF DRAIN FLUSH WITH FINISHED FLOOR.
TG-1	RECTORSEAL	SURESEAL	TRAP GUARD: INLINE HDPE HOUSING WITH INLINE DIAPHRAGM AND SOFT EPDM RUBBER SEALING GASKET PER ASSE 1072.
LV-1	TOTO	LT307.4	WALL HUNG SINK (SINGLE), 20-7/8"x18" VITREOUS CHINA LAVATORY BASIN, WITH CONCEALED CARRIER ARM, 4" CENTERS, 4" TAIL PIECE, AND 1-1/2" GRID STRAINER OPENING, ADA COMPLIANT.
MXV	KOHLER	K-99760-4N	FAUCET: SINGLE LEVER OPERATED 0.5 GPM, MATTE BLACK FINISH 4-1/4" TALL 4-3/16" REACH RIGID SPOUT WITH SINGLE HOLE MOUNT, CERAMIC DISK VALVES. MEETS NSF/ANSI 61.
	WATTS	SERIES LM495	THERMOSTATIC TEMPERING VALVE CONSTRUCTED OF SOLID BRASS. ALL INTERNAL COMPONENTS SHALL BE CORROSION-RESISTANT. VALVE SHALL FEATURE INTERNAL CHECK TO PREVENT CROSS-FLOW AND INLET SCREENS TO FILTER OUT DEBRIS. VALVE SHALL BE CSA B125 CERTIFIED, ASSE 1016 AND 1070 LISTED. 1/2" INLETS, 1/2" OUTLET. PROVIDE OFF-SET GRID STRAINER AND TAILPIECE WITH 1-1/2" 17-GAUGE CHROME-PLATED SEMI-CAST BRASS OFF-SET P-TRAP WITH CLEANOUT AND WASTE ARM TO WALL WITH ESCUTCHEON, RISERS WITH LEAD FREE CHECK VALVES AND LEAD FREE QUARTER TURN LOOSE KEY ANGLE STOPS. WHERE PIPING AND ACCESSORIES ARE EXPOSED BELOW COUNTERTOP, PROVIDE ADA COMPLIANT VANDAL RESISTANT INSULATED COVERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
S-1	ELKAY	ELUH281610PD	SINK: UNDER COUNTER MOUNTED 30-3/4"x18-1/2"x10" DEEP SINGLE COMPARTMENT 18 GAUGE 304 STAINLESS STEEL WITH SATIN FINISH, 1 5/8" DRAIN OPENING, HEAVY DUTY SOUND GUARD UNDERCOATING, SEAL LIP OF SINK BASIN TO UNDERSIDE OF COUNTERTOP WITH SILICONE CAULK. PROVIDE UNDERMOUNT BRACKETS.
MXV	DELTA	TRINSIC (LS)9159-ARLS-DST	FAUCET: MANUAL, MATTE BLACK FINISH, 16-5/8" TALL 9" REACH GOOSENECK, 140" LIMITED SWIVEL SPOUT, 1-HOLE CENTER DECK MOUNT, LEVER HANDLE, LEAD-FREE, WITH A FLOW RATE OF 1.5 GPM, AND INTEGRAL NECK PULL DOWN SPRAYER. PROVIDE ASSE 1070 COMPLIANT TEMPERATURE MIXING VALVE. MEETS NSF/ANSI COMPLIANT.
	WATTS	SERIES LM495	THERMOSTATIC TEMPERING VALVE CONSTRUCTED OF SOLID BRASS. ALL INTERNAL COMPONENTS SHALL BE CORROSION-RESISTANT. VALVE SHALL FEATURE INTERNAL CHECK TO PREVENT CROSS-FLOW AND INLET SCREENS TO FILTER OUT DEBRIS. VALVE SHALL BE CSA B125 CERTIFIED, ASSE 1016 AND 1070 LISTED. 1/2" INLETS, 1/2" OUTLET.
MXV	INSINKERATOR	BADGER 5	GARBAGE DISPOSAL: CONTINUOUS FEED WITH WALL SWITCH ON/OFF CONTROL, 120V/1 PHASE/60 HZ, 1/2 HP MOTOR WITH MANUAL RESET OVERLOAD, PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS, STAINLESS STEEL GRINDING ELEMENTS WITH TWO 360 DEGREE SWIVEL LUGS, OVERALL HEIGHT OF 11-1/2", 1-1/2" CUSHIONED SLIP JOINT DRAIN CONNECTION. PROVIDE DISHWASHER DRAIN CONNECTION AND FACTORY INSTALLED POWER CORD.
			PROVIDE OFF-SET GRID STRAINER AND TAILPIECE WITH 1-1/2" 17-GAUGE CHROME-PLATED SEMI-CAST BRASS OFF-SET P-TRAP WITH CLEANOUT AND WASTE ARM TO WALL WITH ESCUTCHEON, RISERS WITH LEAD FREE CHECK VALVES AND LEAD FREE QUARTER TURN LOOSE KEY ANGLE STOPS. WHERE PIPING AND ACCESSORIES ARE EXPOSED BELOW COUNTERTOP, PROVIDE ADA COMPLIANT VANDAL RESISTANT INSULATED COVERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
WC-1	TOTO	CWT42727CMTFG#MS	WATER CLOSET: WHITE VITREOUS CHINA WITH ANTI-MICROBIAL CERAMIC GLAZE, 1.28/09 GPF DUAL FLUSH SYSTEM, D-SHAPE BOWL, WALL MOUNTED, COMPACT.
WC-1	TOTO	WT172M	CARRIER: IN-WALL CARRIER AND TANK UNIT, 1.28/0.9 GPF DUAL FLUSH SYSTEM, 1/2" NPT WATER SUPPLY CONNECTION WITH ADDITIONAL 1/2" NPT WATER SUPPLY CONNECTION FOR WASHLET, RATED FOR 880 LB. MEETS ASME A112.6.2. PROVIDE WITH FLUSH SYSTEM PUSH PLATE IN WHITE FINISH.
	TOTO	SS227#01	TOILET SEAT: SOLID PLASTIC D-SHAPED SEAT WITH SOFTCLOSE SYSTEM. INTEGRAL BUMPERS. HINGES TO BE COLOR MATCHED WITH METAL STUD AND NUT. PROVIDE MANUFACTURER'S MOUNTING HARDWARE. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
WB-1	SIOUX CHIEF	696 SERIES	ICE MAKER WALL BOX: NSF-372 COMPLIANT, WITH ASSE1010 MINI ARRESTOR, STANDARD PACK WITH WHITE FRAME. PROVIDE BOX WITH EXTENSION COLLAR AND TRIM RING. MOUNT WITHIN CASEWORK.
UR-1	TOTO	UT10SLVG	URINAL: WHITE VITREOUS CHINA WITH ANTI-MICROBIAL CERAMIC GLAZE, WALL HUNG, WASHOUT FIXTURE, 0.125 GPF WITH 3/4" BACK SPUD.
	TOTO	TEU2UA11#SS	FLUSH VALVE: CONCEALED CHROME FINISH, 0.125 GPF, POWERED WITH SENSOR OPERATED PISTON TYPE FLUSH VALVE, WITH MANUAL MECHANICAL OVERRIDE BUTTON, PROVIDE MANUFACTURER'S HYDROPOWERED ENERGY GENERATING ACCESSORY BRASS PISTON WITH CHLORAMINE RESISTANT EPDM SEAT AND SEALS, SELF-CLEANING MECHANISM, ESCUTCHEON, INTEGRAL QUARTER TURN LOOSE KEY ANGLE STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT. FLOOR MOUNTED CARRIER WITH HANGER PLATE AND BEARING PLATE BY J.R. SMITH. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
MB-1	STERN-WILLIAMS	SB-902	24"x24"x12" MOP SERVICE BASIN, CAST BRASS DRAIN, STAINLESS STEEL DOME STRAINER, 3" DRAIN CONNECTION, WITH STAINLESS STEEL BUMPER GUARD ON ALL SIDES, 10" STAINLESS STEEL BACK PANEL ON TWO SIDES - WILLIAMS NO. 1-35 3 FT. RUBBER HOSE WITH STAINLESS STEEL WALL BRACKET. PROVIDE WALL HUNG MOP RACK.
	ZURN	Z8431M1-RC	SERVICE SINK FAUCET, POLISHED CHROME FINISH, BUILT-IN STOPS, LEVER HANDLES, LOWER WALL BRACE ASSEMBLY, VACUUM BREAKER, 3/4" HOSE THREAD ON SPOUT, PAIL HOOK, AND INTEGRAL STOPS.

FIXTURE BRANCH SCHEDULE						
MARK	DESCRIPTION	C.W.	H.W.	WASTE	VENT	REMARKS
WC	WATER CLOSET	3/4"	-	3"	2"	FLUSH TANK FLOOR MOUNTED
S	SINK	1/2"	1/2"	2"	1 1/2"	COUNTER MOUNTED
LV	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	WALL HUNG
MB	MOP BASIN	1/2"	1/2"	3"	2"	FLOOR MOUNTED
FD	FLOOR DRAIN	-	-	*	2"	
UR	URINAL	3/4"	-	2"	2"	WALL HUNG

NOTE: PIPE SIZES SHOWN ARE MINIMUM AND REQUIRED UNLESS NOTED OTHERWISE.

PLUMBING GENERAL NOTES

- SPECIFICATIONS, REFER TO "MECHANICAL" AND "PLUMBING" SECTION SERIES, "GENERAL CONDITIONS" / "SUMMARY OF WORK" SECTIONS AND ELSEWHERE IN DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS FOR PLUMBING CONTRACTOR.
- CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS AND FIELD VERIFY ALL EXISTING UTILITY CONNECTIONS & COORDINATE WORK WITH OTHER TRADES PRIOR TO FLOOR CUTTING, LAYOUT OF PIPING, SUBMITTAL OF SHOP DRAWINGS OR ORDERING OF EQUIPMENT. IF ITEMS ARE DISCOVERED THAT AFFECT THE COMPLETION OF PROJECT WORK, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AT THIS TIME. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, BUILDING, MECHANICAL, PLUMBING AND FIRE CODES, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISERS AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
- DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION TYPE, LAYOUT, AND EQUIPMENT REQUIRED. SHOP DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPE, CONNECTIONS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURES ETC.
- REFER TO PLUMBING DETAIL SHEETS FOR SCHEDULES, DETAILS, AND FIXTURE CONNECTION SCHEDULES FOR FINAL PIPE CONNECTION SIZES TO FIXTURES.
- SUSPEND ALL HORIZONTAL SERVICE PIPING SHOWN ON THIS PROJECT SUCH AS, BUT NOT LIMITED TO, WATER, CHEM WASTE/ VENT, SAN, WASTE/VENT, GAS, ETC. FROM UNDERSIDE OF ROOF AND/OR FLOOR STRUCTURE, UNLESS OTHERWISE NOTED OR INDICATED. HOLD SUCH PIPING HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS, CHASES, ETC. TO SERVE FIXTURES AND EQUIPMENT AS SHOWN ON PLANS.
- PROVIDE GUARD (TG-1) ON ALL FLOOR DRAINS AND FLOOR SINKS.
- REFER TO LABORATORY EQUIPMENT DRAWINGS FOR FINAL EQUIPMENT CONNECTION REQUIREMENTS, I.E. LOCATION AND SIZE.
- ALL VALVES FOR MAINTENANCE SHUT OFF SHALL BE IN AN ACCESSIBLE LOCATION.
- SEAL ALL PIPE PENETRATIONS THROUGH FLOOR WITH A WATER TIGHT SEAL. REFER TO PIPE THROUGH CONCRETE FLOOR DETAIL ON DETAIL SHEET.
- MEAD LEGS LONGER THAN 24" ARE PROHIBITED IN DOMESTIC HOT WATER SYSTEM.

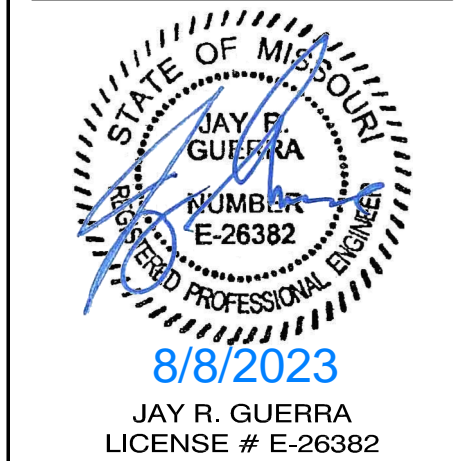


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PLUMBING LEGEND AND SCHEDULES

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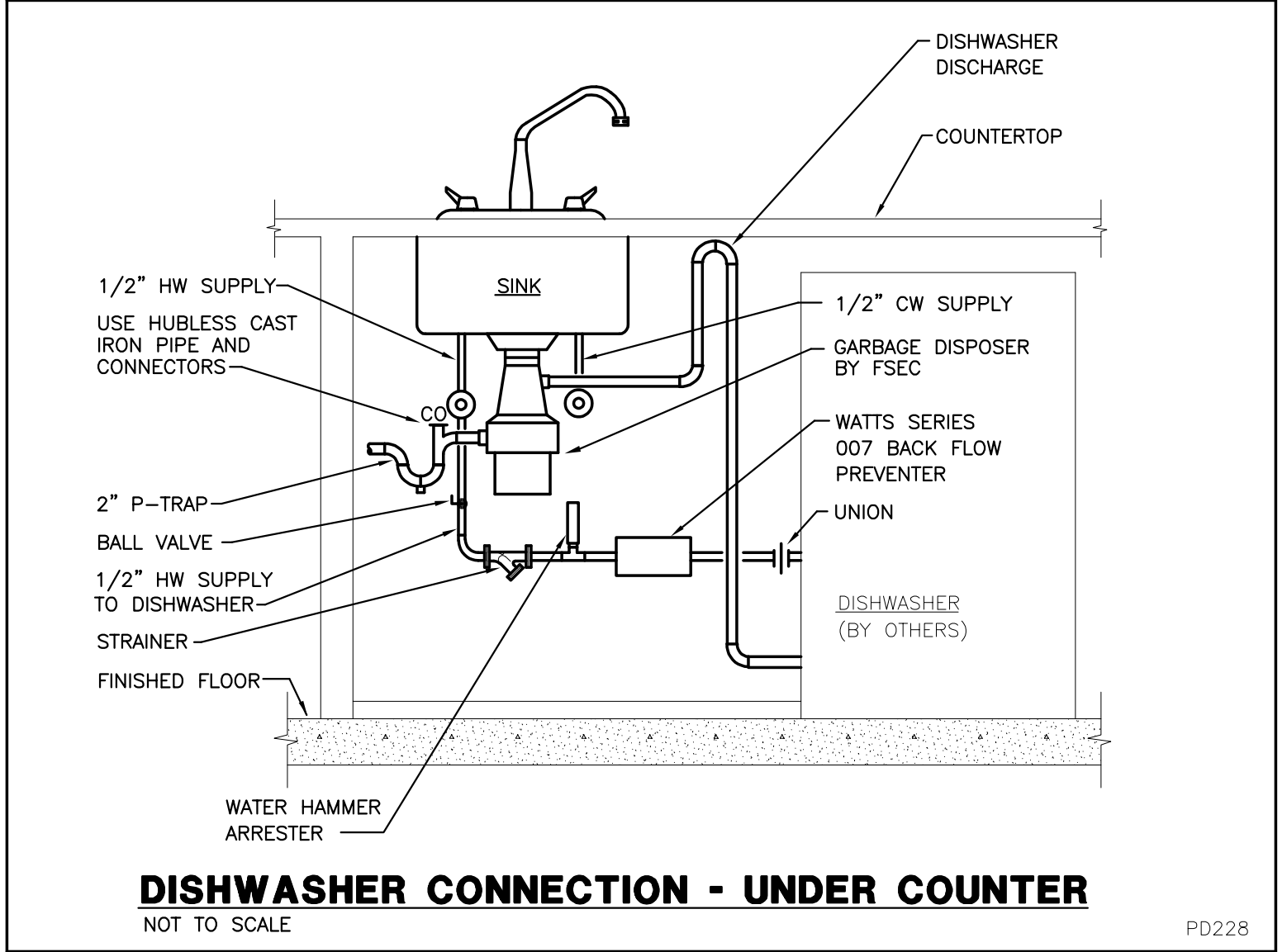
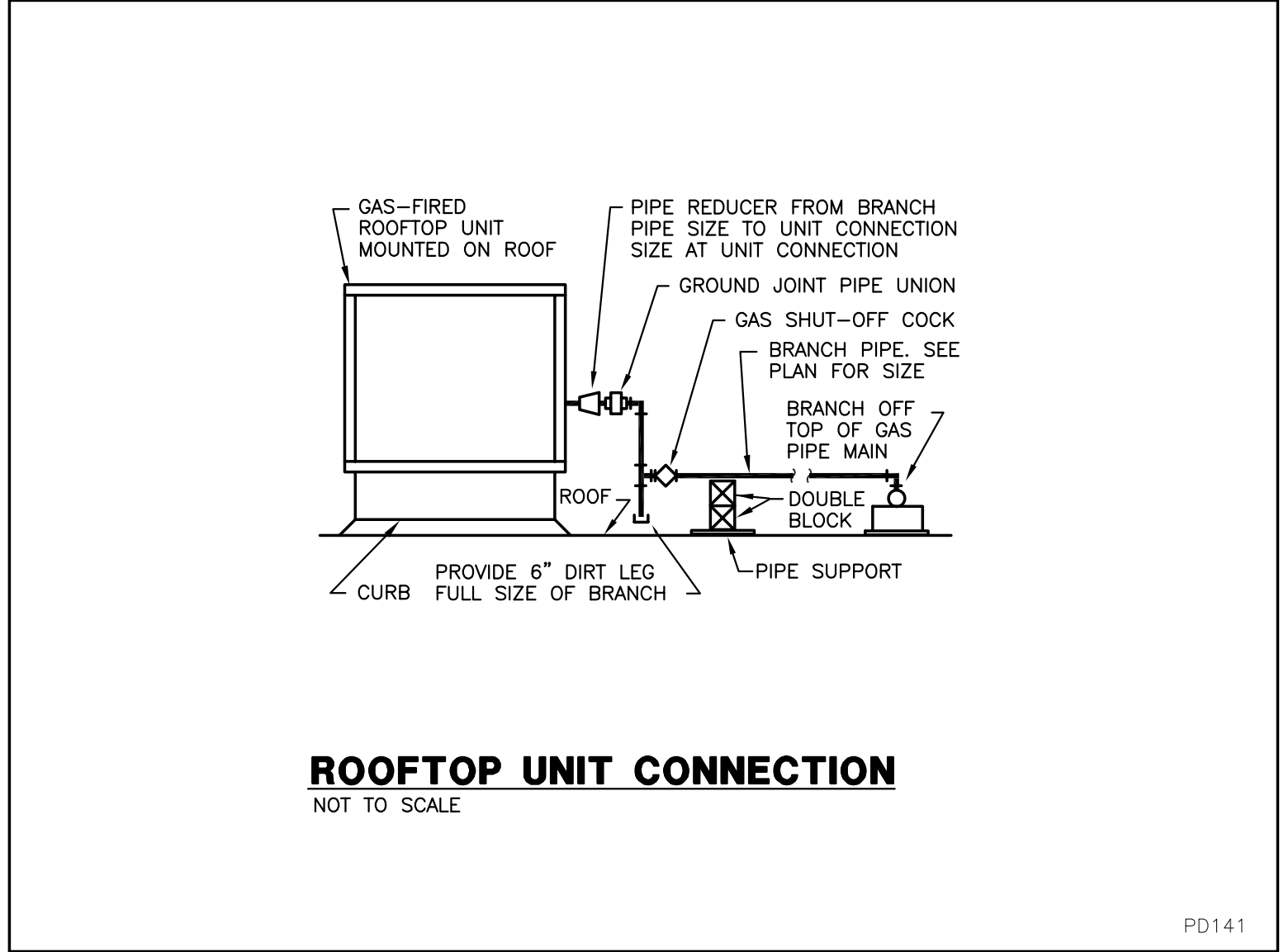
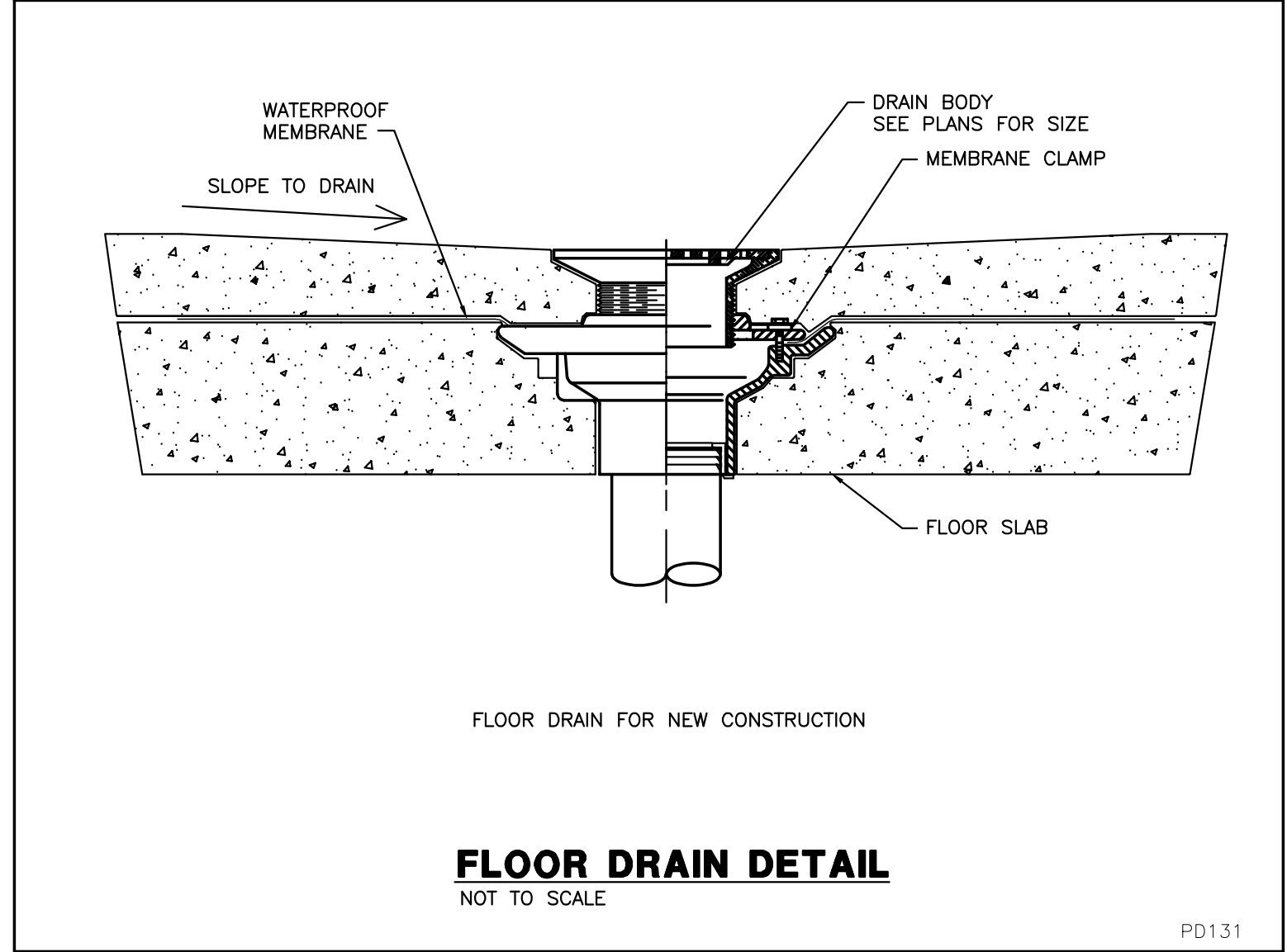
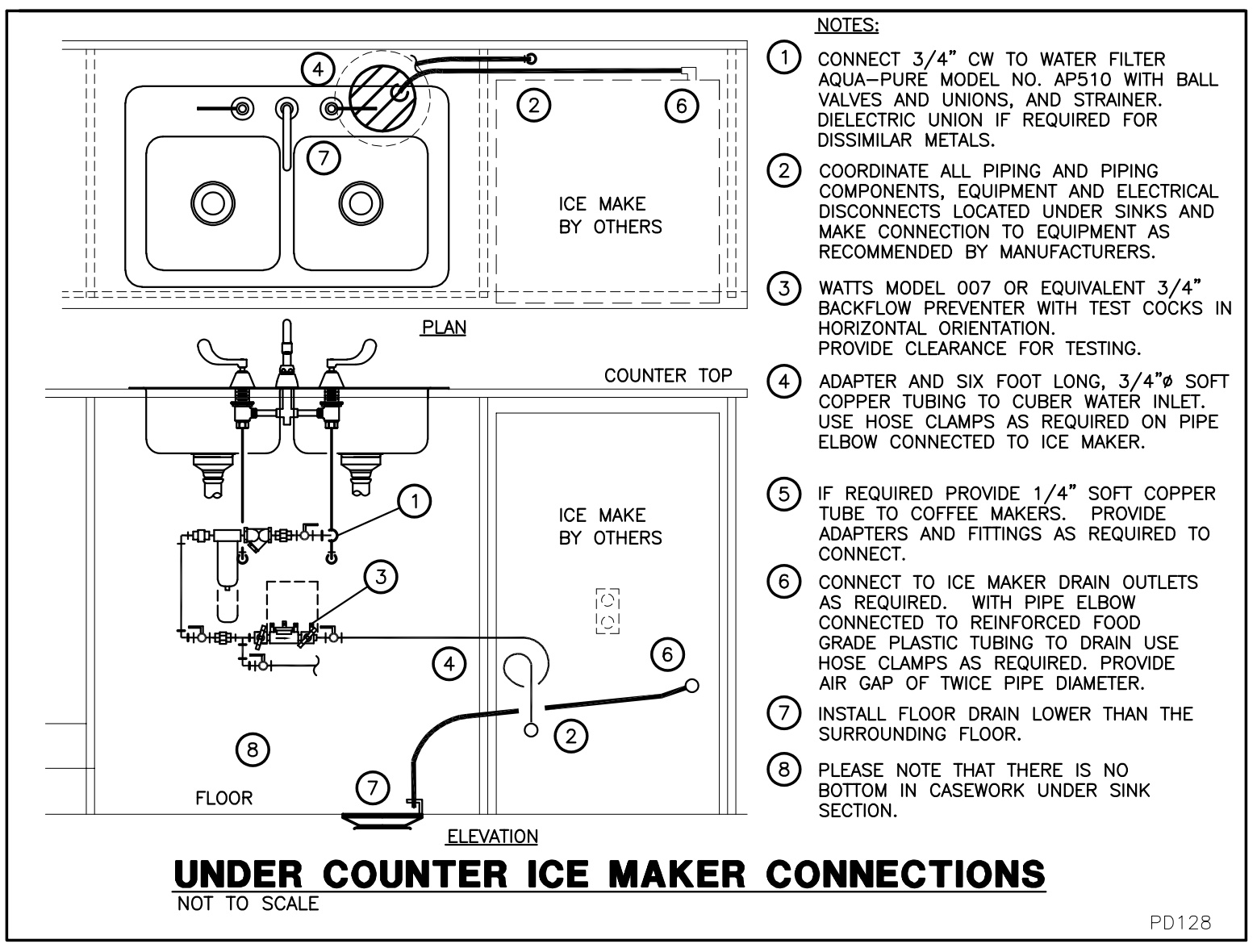
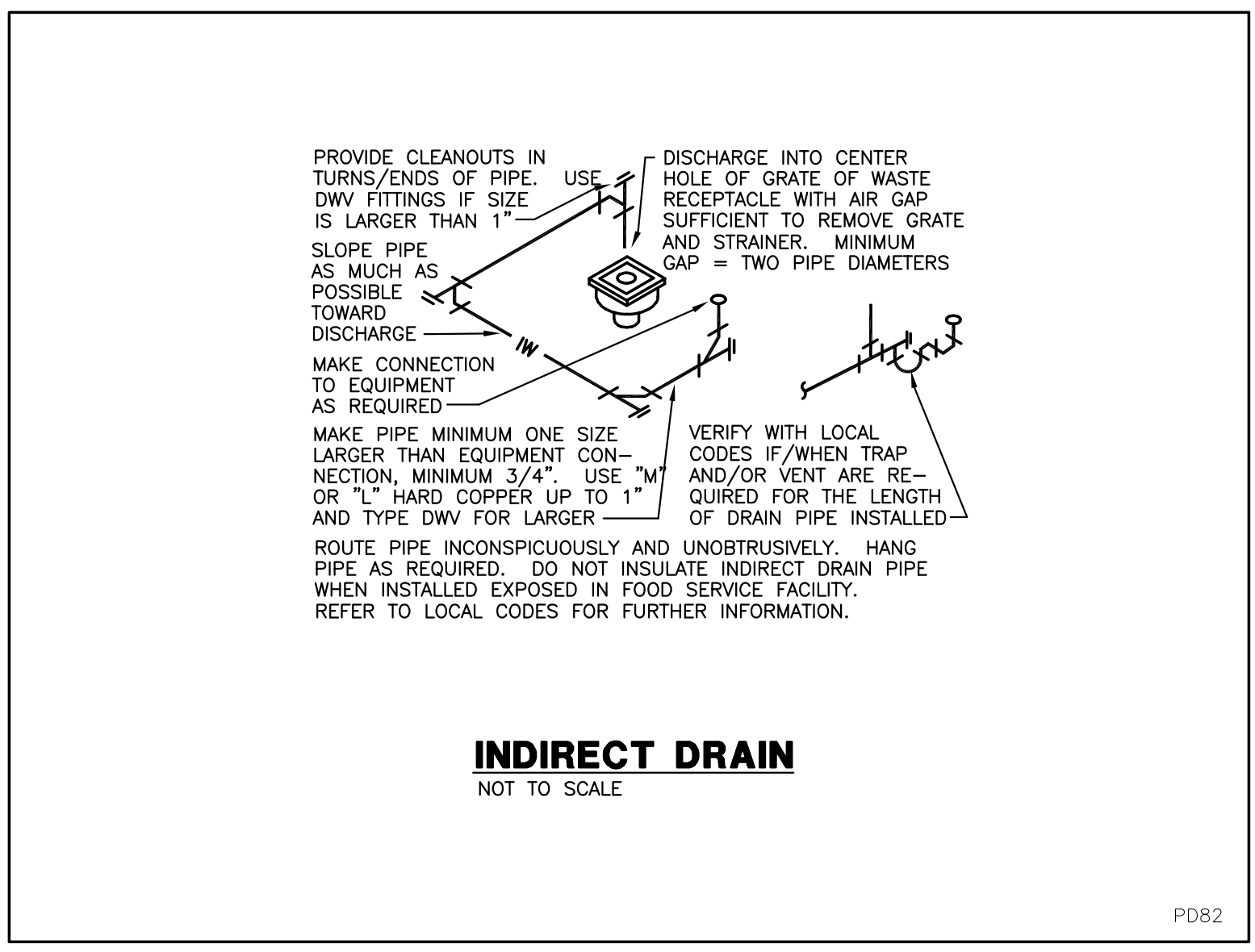
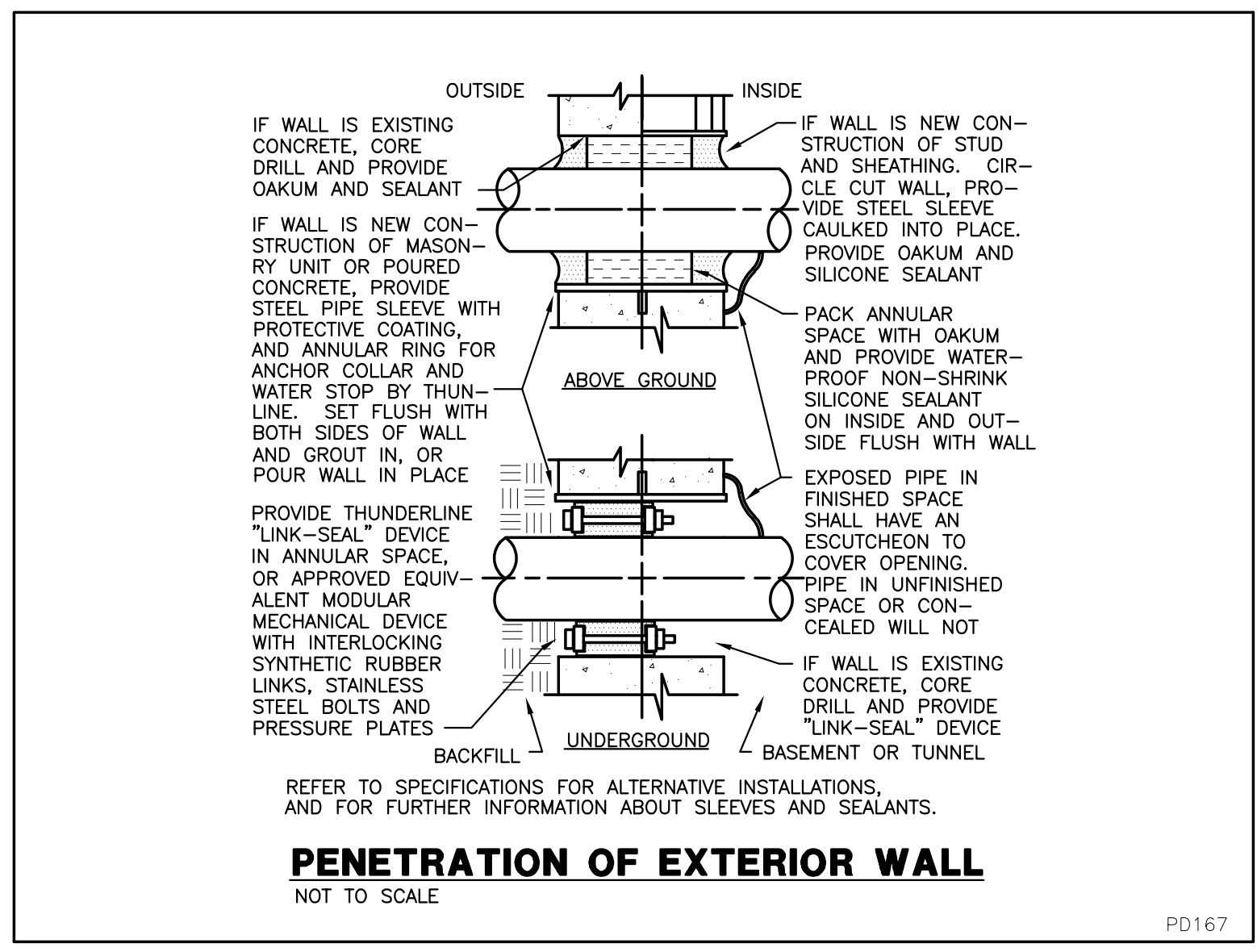
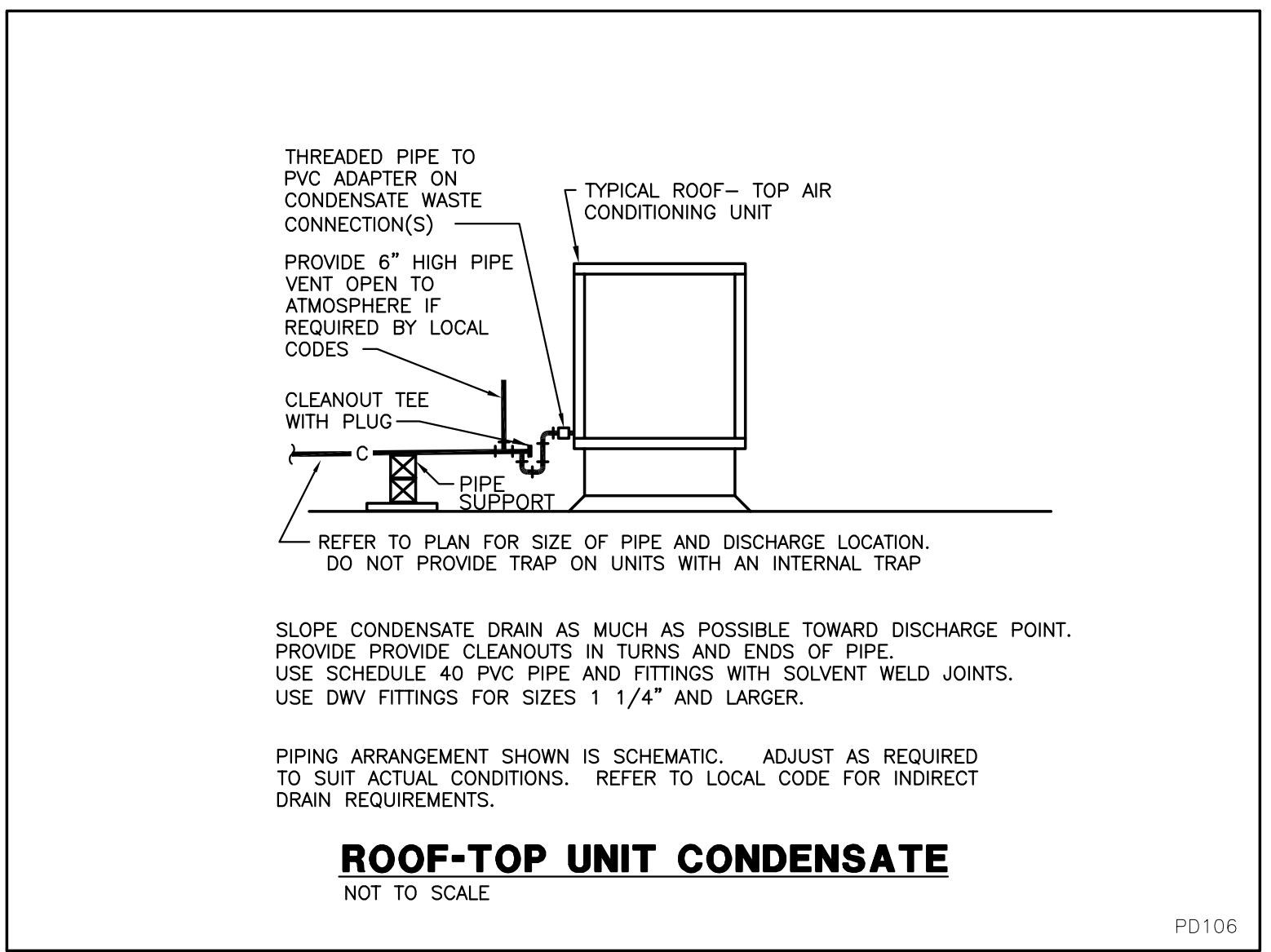
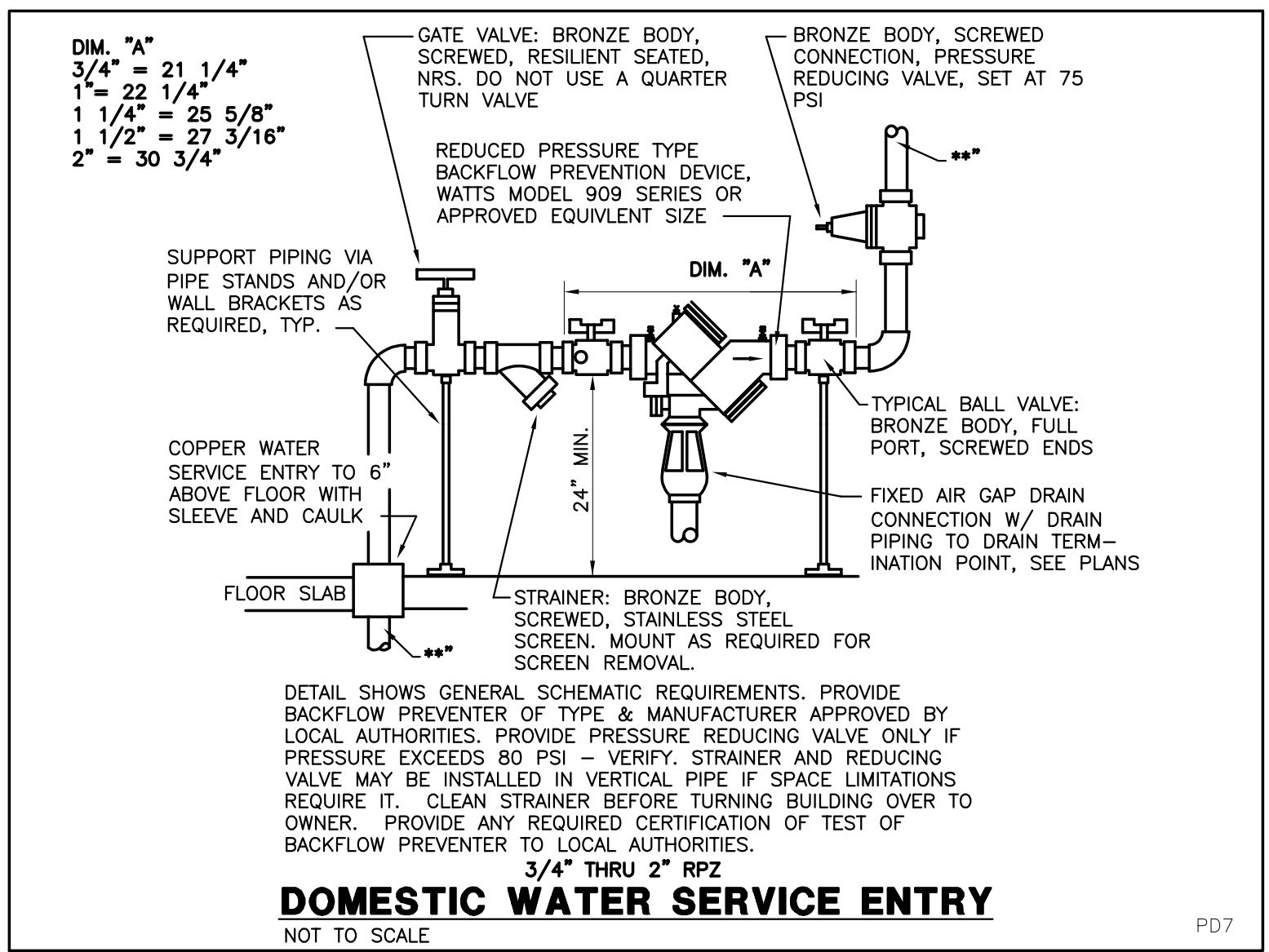
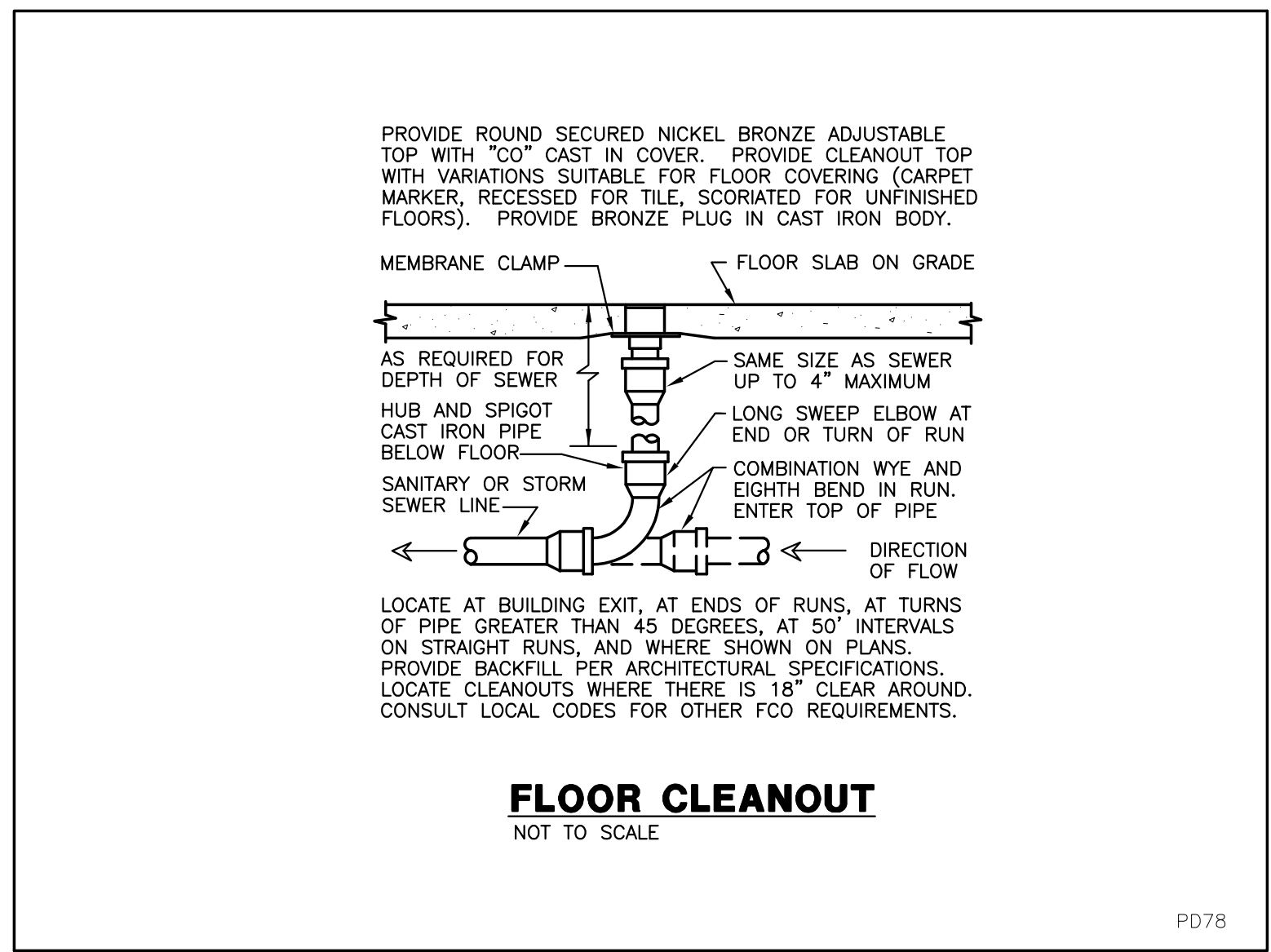
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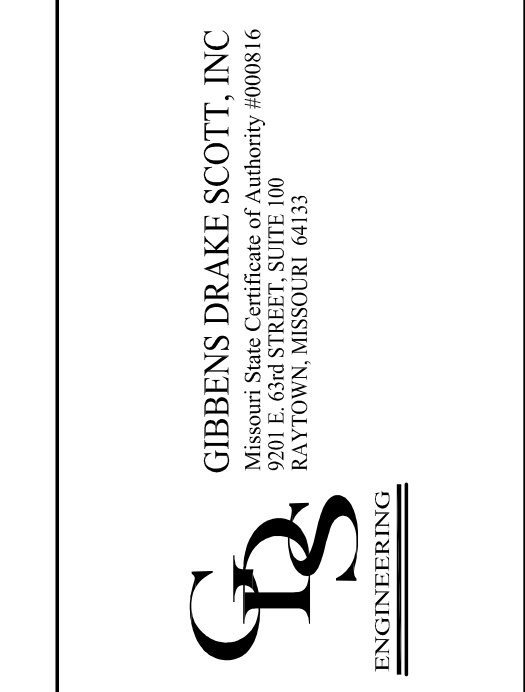
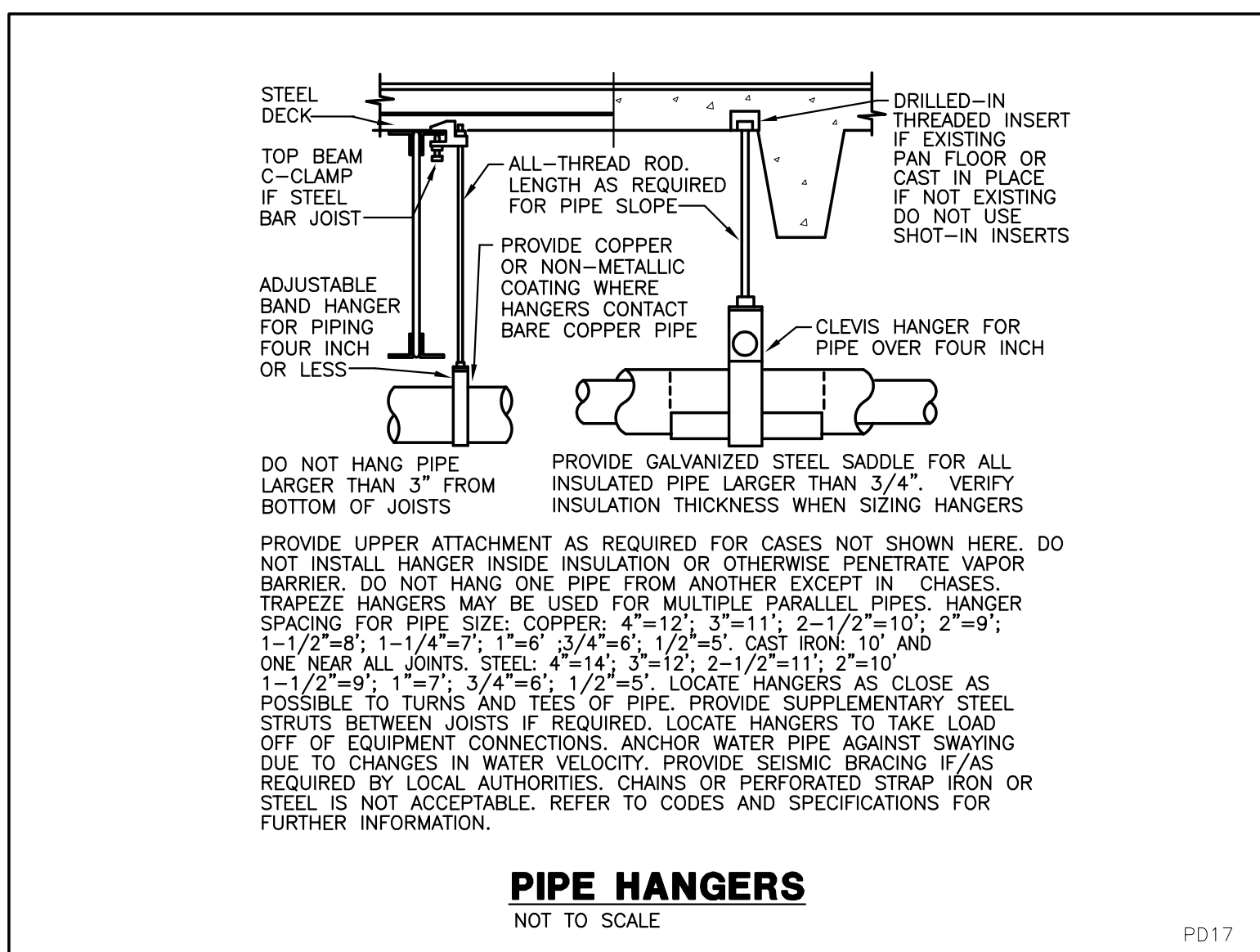
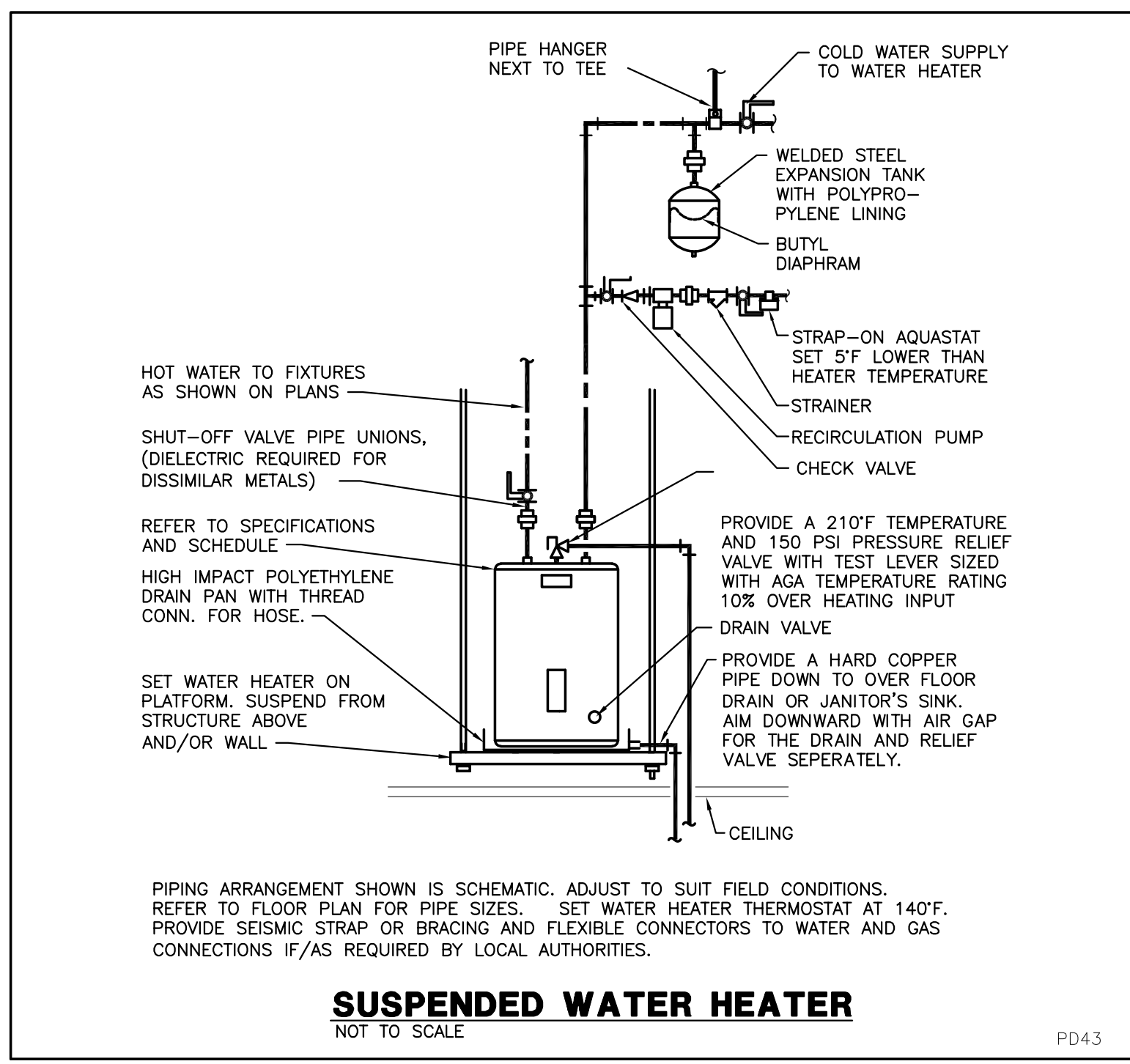
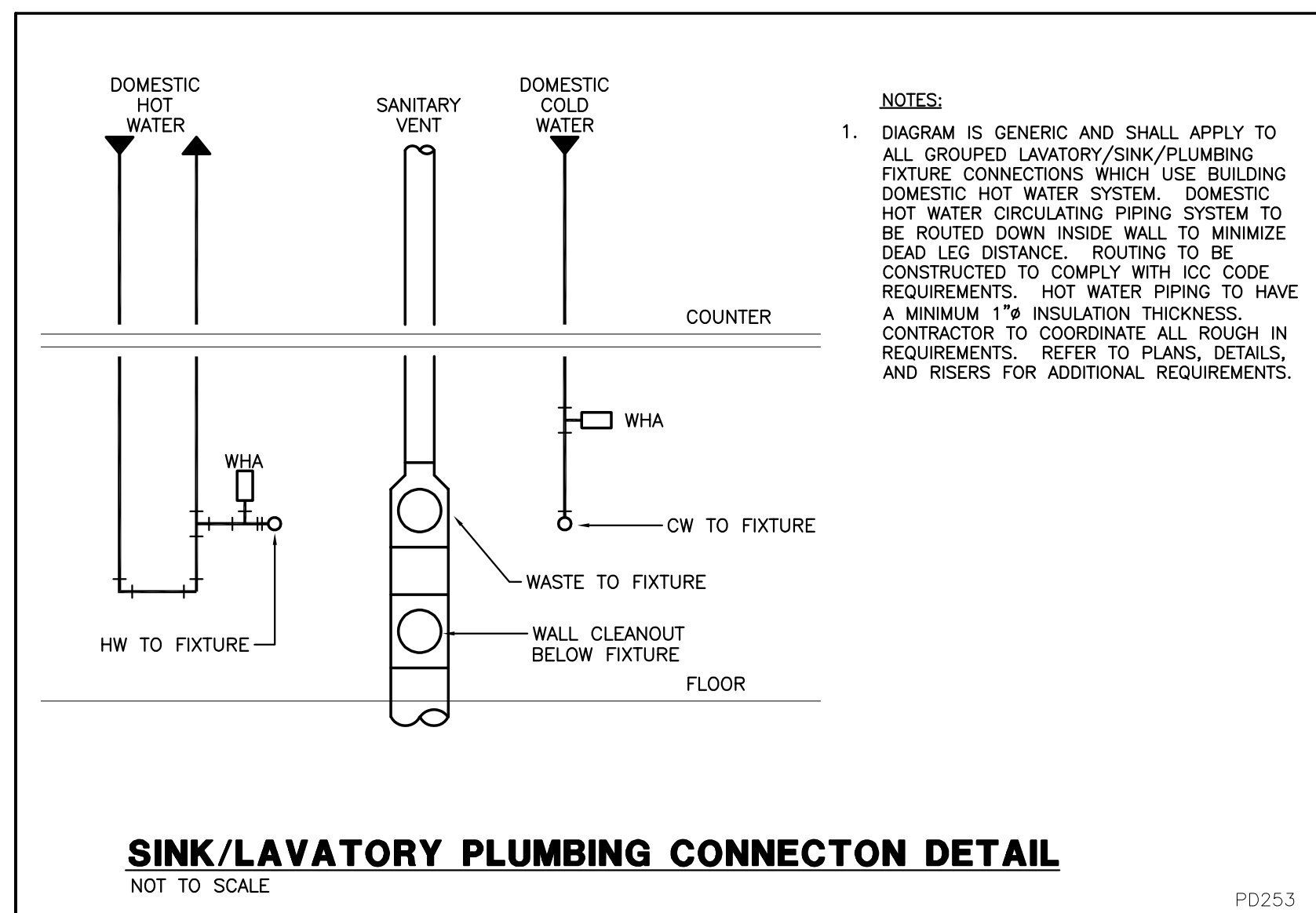
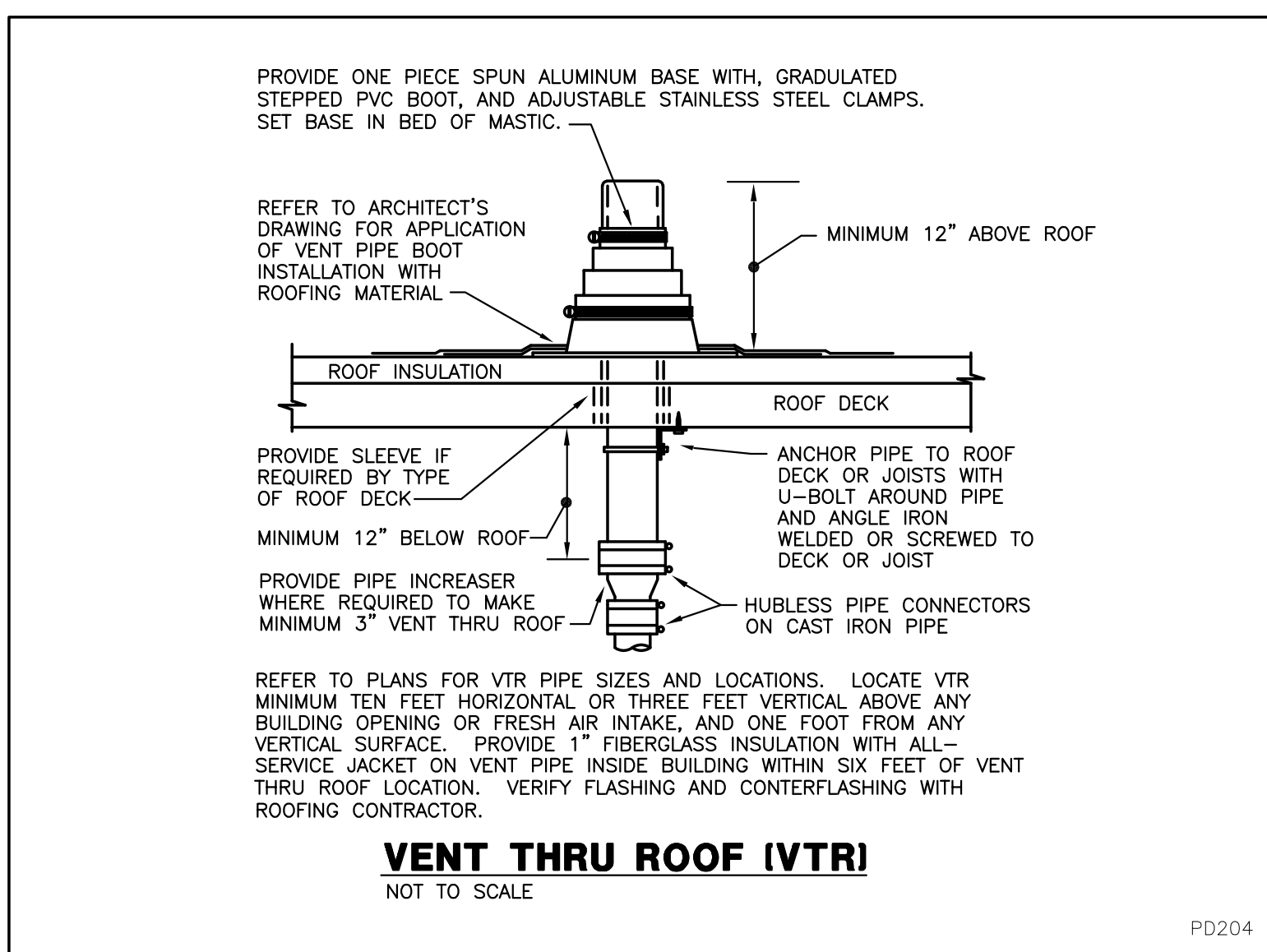
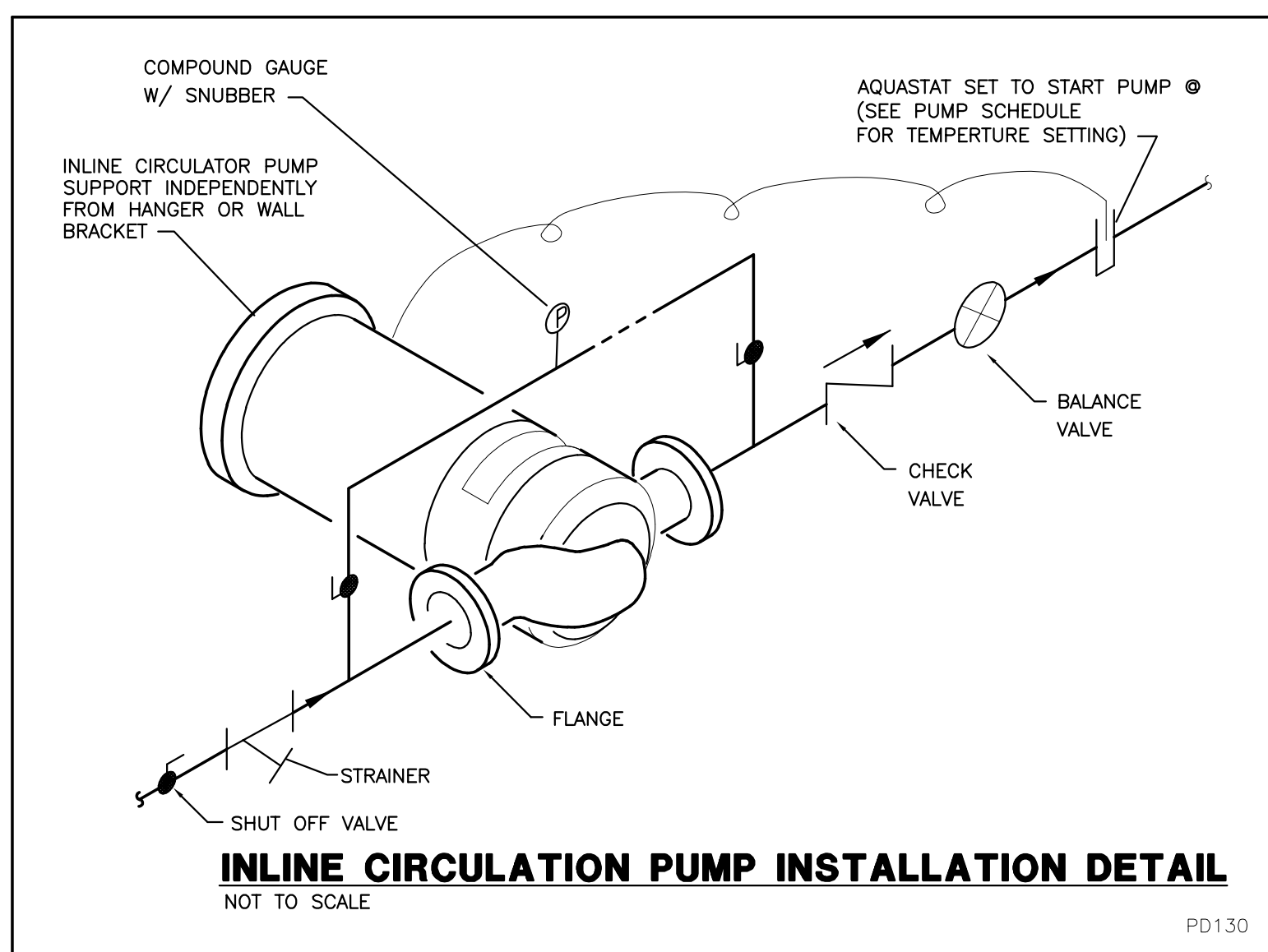
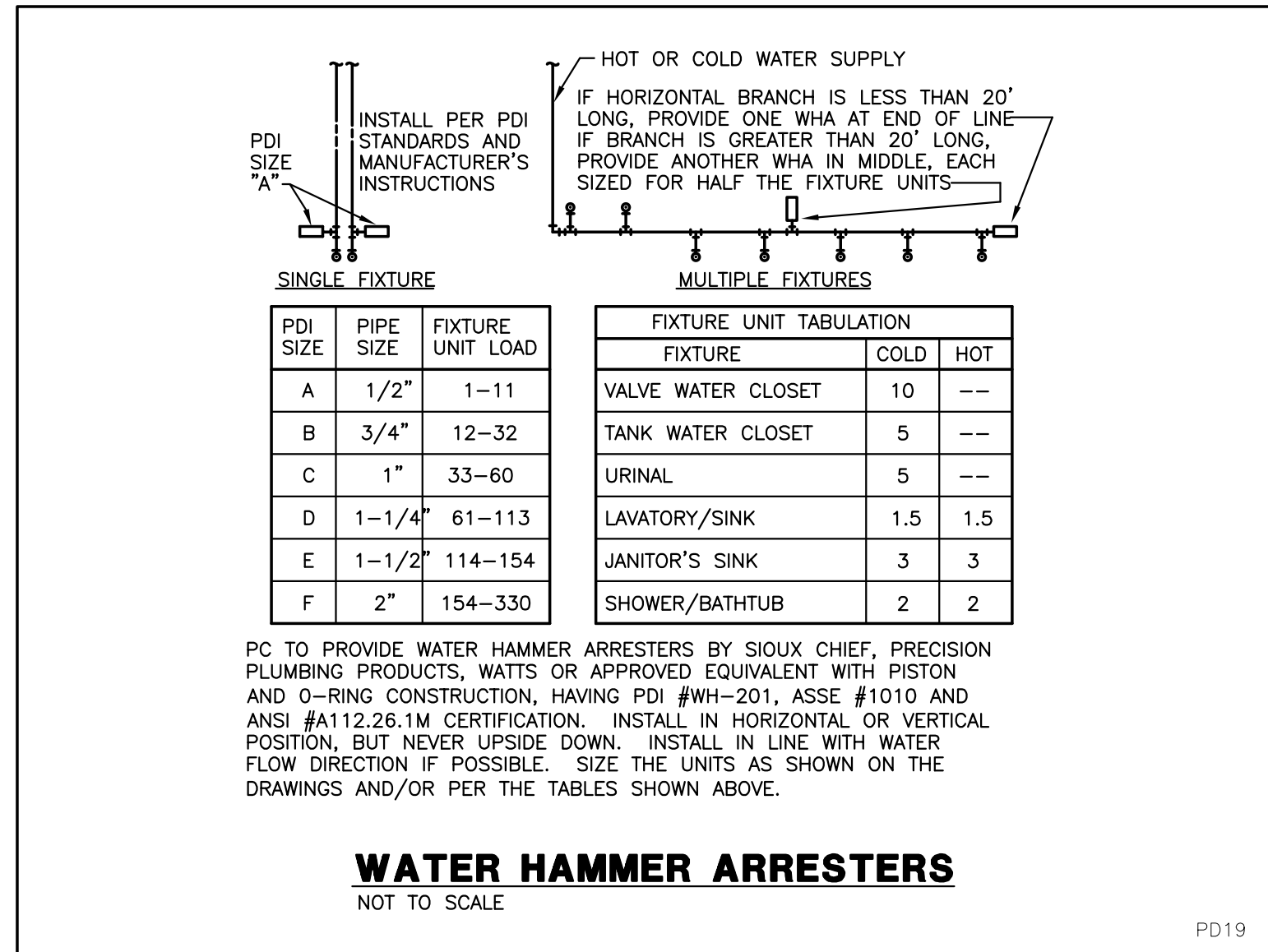
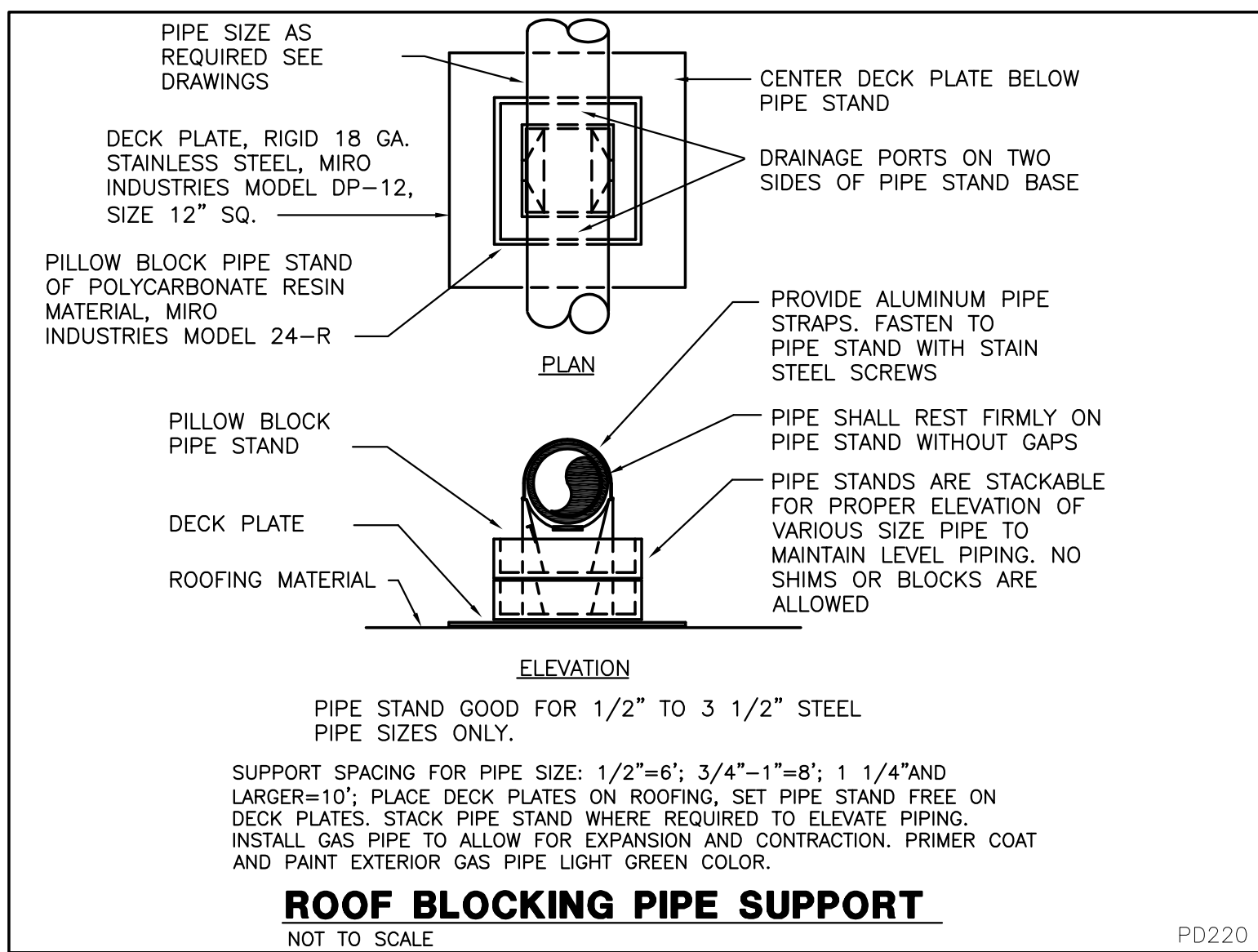
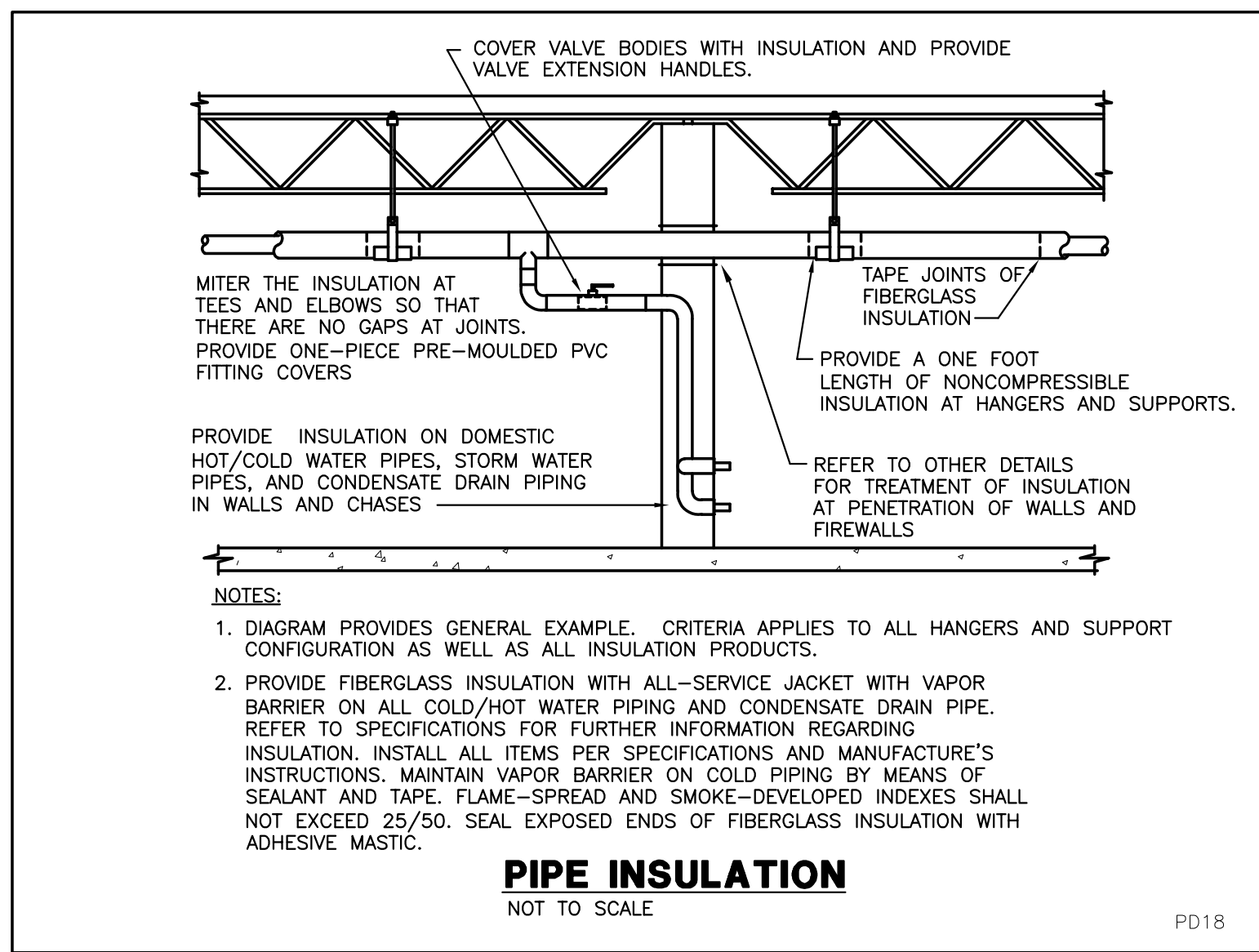
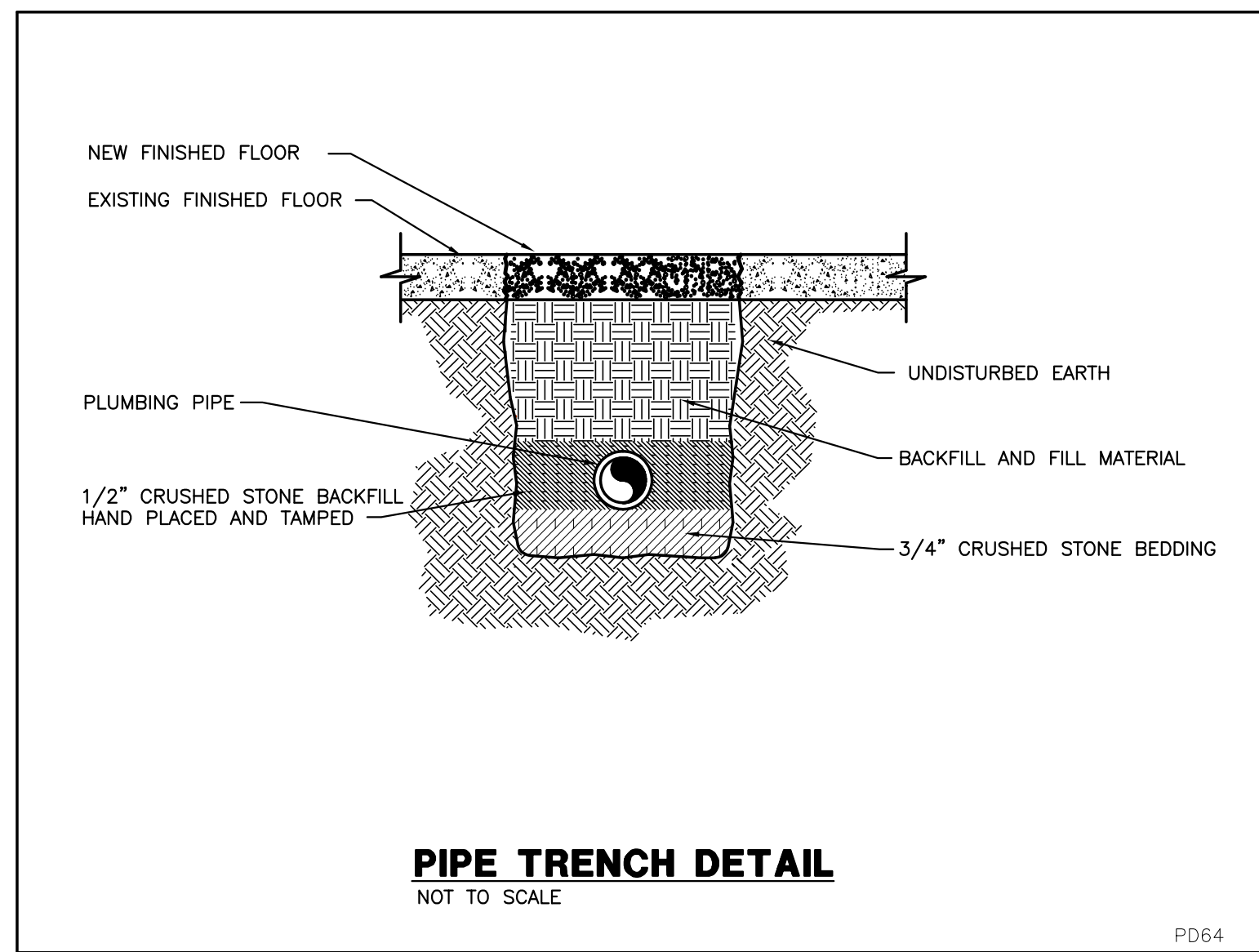
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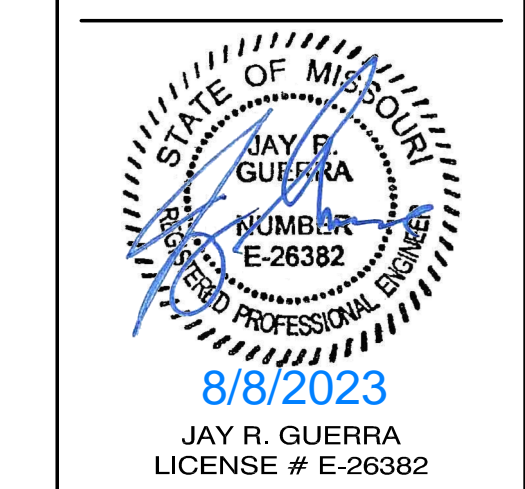
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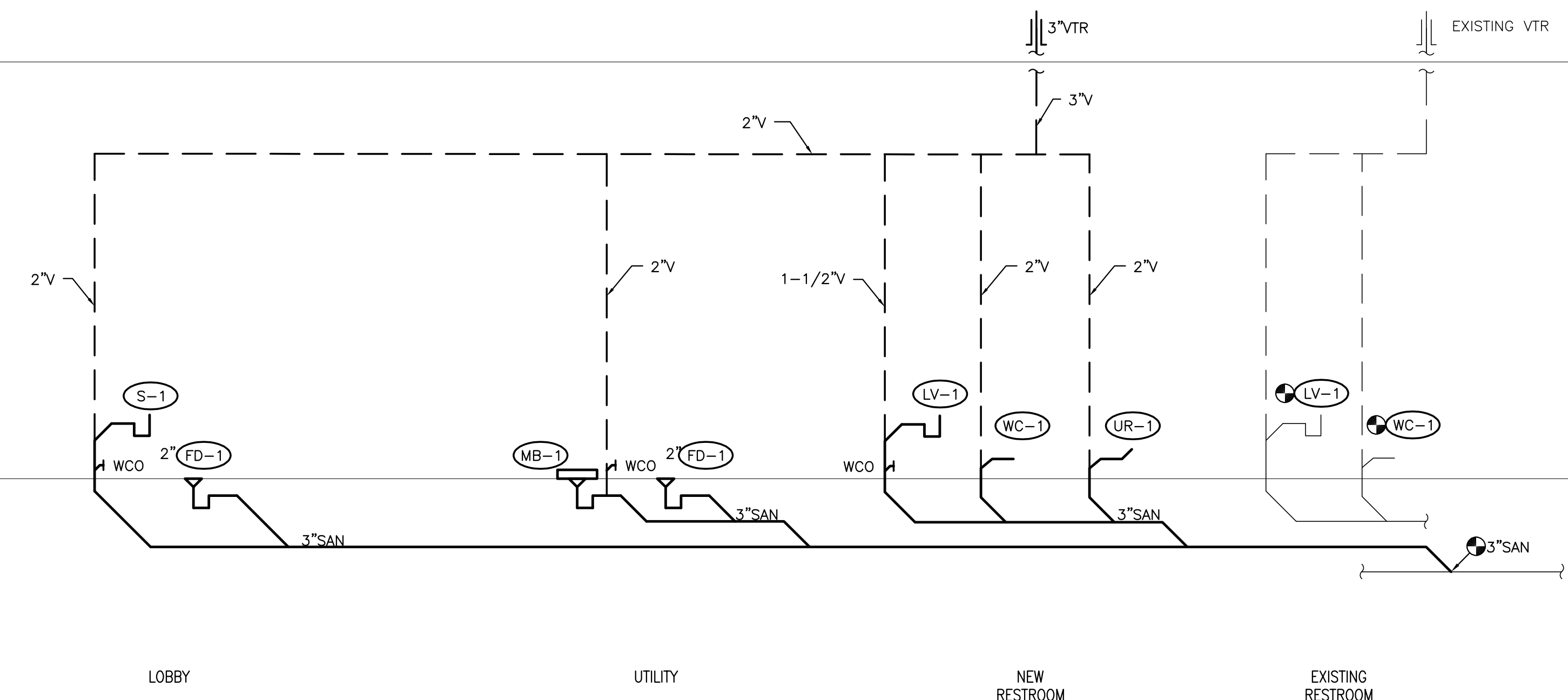
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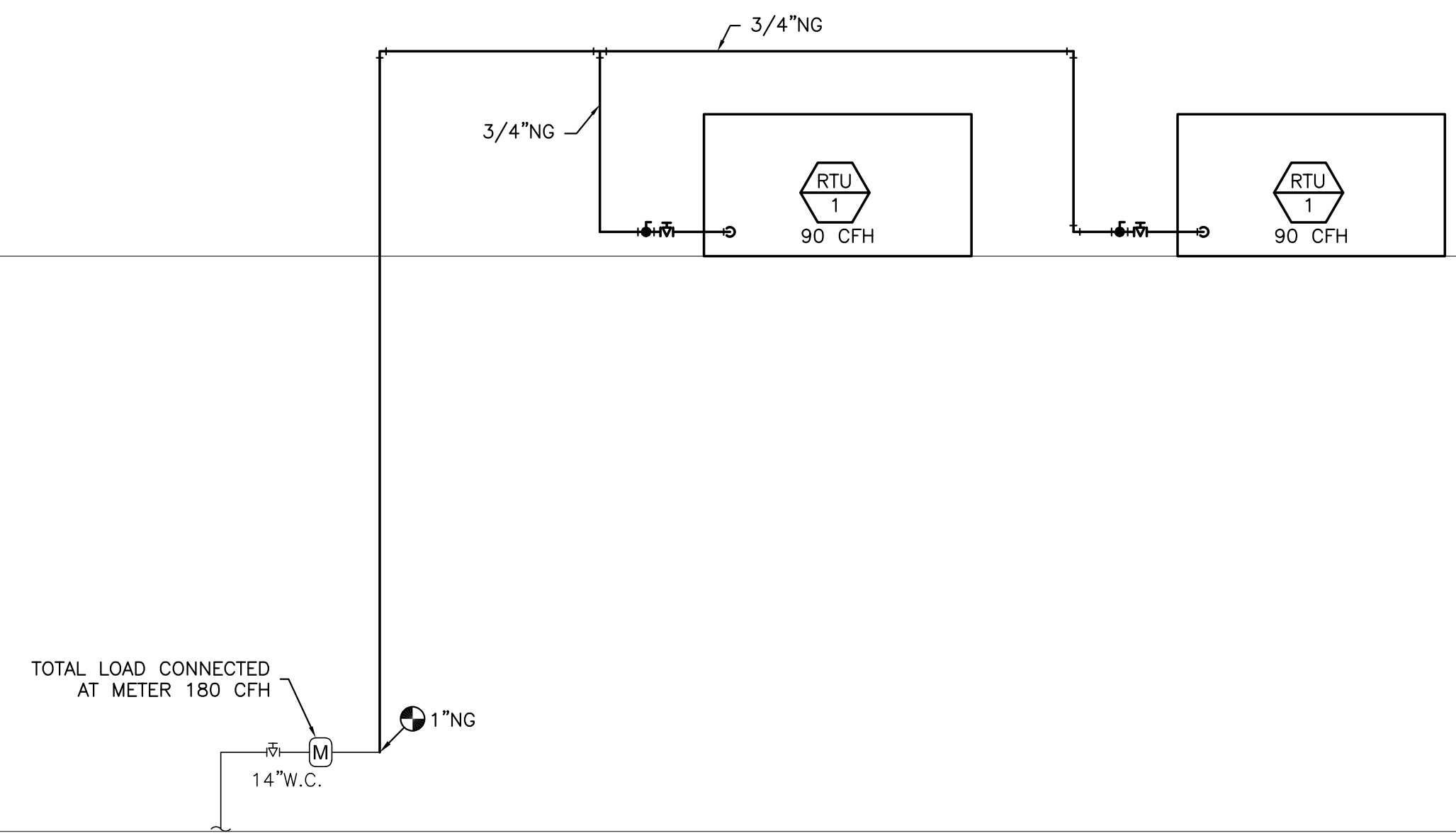
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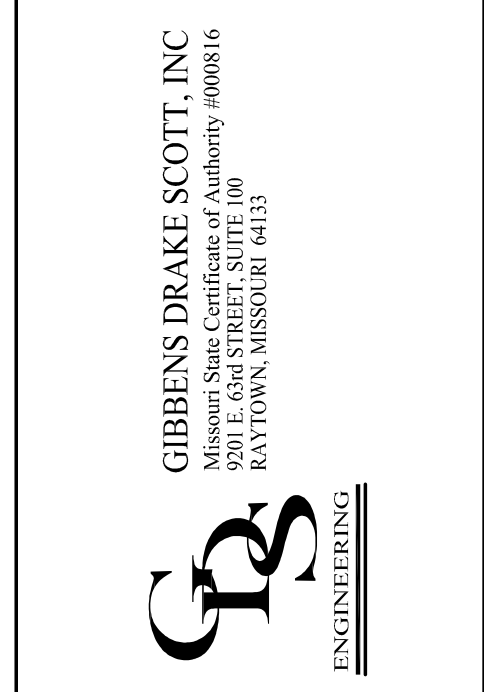


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PARTIAL NATURAL GAS RISER DIAGRAM
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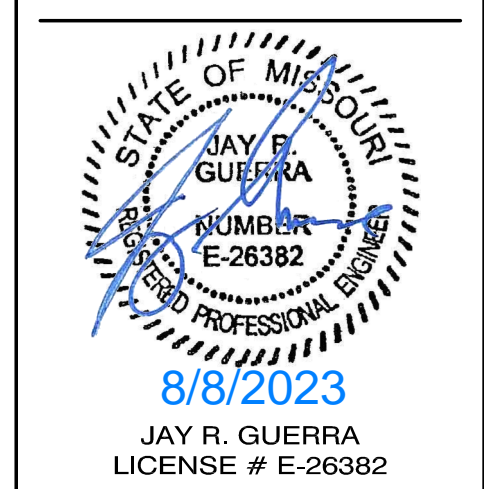


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PLUMBING RISER DIAGRAMS

P003
ISSUE DATE: JULY 14, 2023
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GENERAL MECHANICAL REQUIREMENTS

MECHANICAL GENERAL PROVISIONS

26. ALL APPLICABLE PROVISIONS OF THE CONTRACT DOCUMENTS SHALL GOVERN DIVISION 3 AND 26. THE MECHANICAL/ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIALS, EQUIPMENT, APPARATUS, MECHANICAL/ELECTRICAL SYSTEMS AND INSTRUMENTALS REQUIRED FOR COMPLETE AND WORKING INSTALLATION. HE SHALL SUPPLY ALL NECESSARY LABOR, EQUIPMENT, TOOLS, INSURANCE, TAXES, SERVICES, AND HE SHALL ASSUME FULL RESPONSIBILITY FOR ALL OBLIGATIONS ASSOCIATED WITH COMPLETION OF MECHANICAL/ELECTRICAL WORK AS PROVIDED BY THE CONTRACT DOCUMENTS.

A. THE WORK SHALL COMPLY WITH THE EDITION OF THE APPLICABLE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE OF ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION. WHERE QUANTITIES, SIZES, OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES, ACCEPTABLE TO THE ARCHITECT/ENGINEER, THE NATIONAL ELECTRICAL CODE AND UNIFORM PLUMBING AND MECHANICAL CODES SHALL APPLY TO THIS WORK.

B. THE CONTRACTOR SHALL COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTIONS OF SERVICES. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED THEREWITH.

C. THE MECHANICAL/ELECTRICAL CONTRACTOR SHALL BE LICENSED TO PERFORM MECHANICAL/ELECTRICAL WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED.

D. ALL PRODUCTS AND TYPES OF CONSTRUCTION SHALL MEET OR EXCEED THE LATEST EDITION OF APPLICABLE STANDARDS OF MANUFACTURER, TESTING, PERFORMANCE AND INSTALLATION.

LOCAL CONDITIONS

A. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE LOCAL CONDITIONS AND EXISTING INSTALLATIONS, AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT LABOR, LOGS, LOCATE ALL EXISTING UTILITIES AND PROTECT THEM DURING THE EXECUTION OF THE WORK.

B. HE SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE HIMSELF WITH THE TYPE OF CONSTRUCTION, MATERIALS, AND EQUIPMENT TO BE USED FOR ALL WORK AND HOW IT WILL AFFECT THE INSTALLATION OF HIS CONTRACT.

C. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE MADE SUCH EXAMINATION, TO HAVE ACCEPTED SUCH CONDITIONS, TO HAVE MADE ALLOWANCE THEREFOR, AND INCLUDED ALL COSTS IN HIS PROPOSAL. FAILURE TO DETERMINE EXISTING CONDITIONS WILL NOT BE CONSIDERED A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION.

UTILITY SERVICES

A. CONNECT TO EXISTING UTILITY SERVICES WITHIN THE BUILDING INCLUDING FIRE AND ELECTRICAL. FIELD VERIFY EXACT LOCATION OF ALL UTILITIES.

WORKMANSHIP

A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, AND NOISE LEVEL, ETC.

CUTTING AND PATCHING

A. ALL NECESSARY CUTTING, DRILLING AND PATCHING SHALL BE PROVIDED BY THIS CONTRACTOR. STRUCTURAL MEMBERS SHALL NOT BE DISTURBED WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER. ALL AREAS DISTURBED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE NEATLY REPAIRED AND REFINISHED TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SUITABLE TO THE OWNERS AUTHORIZED REPRESENTATIVE.

B. REPAIR ANY DAMAGE RESULTING FROM CONSTRUCTION INCLUDING BUT NOT LIMITED TO FINISHES AND FIRE PROOFING MEMBRANES. ALL REPAIRS SHALL MATCH EXISTING CONDITIONS.

OPERATION DURING CONSTRUCTION

A. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OPERATION, SERVICE AND MAINTENANCE OF ALL NEW EQUIPMENT DURING CONSTRUCTION AND PRIOR TO ACCEPTANCE BY THE OWNER OF THE COMPLETED PROJECT. WARRANTY PERIODS SHALL NOT COMMENCE UNTIL FINAL ACCEPTANCE BY THE OWNER.

B. THE CONTRACTOR SHALL COOPERATE WITH THE PRIME CONTRACTOR TO PROVIDE, ALL TEMPORARY HEAT, WATER AND SEWER REQUIRED TO PROTECT THE WORK AND AS NECESSARY TO MAINTAIN AN ADEQUATE WORK FORCE AT NO ADDITIONAL COSTS TO THE OWNER.

SAFETY REGULATIONS

A. ALL MECHANICAL/ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE GOVERNING SAFETY REGULATIONS, INCLUDING OSHA REGULATIONS. PROVIDE SAFETY LIGHTS, GUARDS AND SIGNS REQUIRED.

HOUSEKEEPING

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING STOCKS OF MATERIAL AND EQUIPMENT STORED ON THE PREMISES IN A NEAT AND ORDERLY MANNER.

B. THE CONTRACTOR SHALL CLEAN AND MAINTAIN HIS PORTION OF THE WORK AS SPECIFIED IN THE GENERAL CONDITIONS.

C. THE CONTRACTOR SHALL REMOVE FROM THE PREMISES ALL WASTE MATERIAL PRESENT AS A RESULT OF HIS WORK.

COORDINATION

A. MOUNT MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT TO PROVIDE RECOMMENDED WORKING CLEARANCES AND ACCESS TO ALL COMPONENTS. PROVIDE ACCESS TO FILTERS, COMPRESSORS, CONTROLS AND MOTORS WITHOUT REMOVING EQUIPMENT. COORDINATE WITH ALL TRADES SO THAT NO PIPING, CONDUIT, DUCT OR STRUCTURAL MEMBER OBSTRUCTS REQUIRED ACCESS OR IS BENEATH EQUIPMENT SHOULD REMOVAL EVER BE REQUIRED. NOTIFY ARCHITECT/ENGINEER OF ANY ACCESS OR MOUNTING CONFLICTS PRIOR TO INSTALLATION. FAILURE TO COORDINATE WILL NOT BE CONSIDERED A BASIS FOR GRANTING ADDITIONAL COMPENSATION.

B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF COORDINATION DRAWING(S) OF ANY AND ALL AREAS WHERE SPACE IS LIMITED OR COORDINATION OF TRADES IS PARTICULARLY CRITICAL AND ELSEWHERE AS REQUIRED BY THE DOCUMENTS. INCLUDE THE WORK OF ALL TRADES IN THIS DRAWING.

CONNECTION AND ALTERATION TO EXISTING SYSTEMS

A. CONNECTION TO THE EXISTING BUILDING PLUMBING, HEATING, COOLING, VENTILATION, PIPING, ELECTRICAL, ETC., MUST BE ACCOMPLISHED UNDER THIS CONTRACT. SYSTEM "DOWNTIME" DUE TO CONNECTION SHALL BE KEPT TO AN ABSOLUTE MINIMUM. THE OWNER'S REPRESENTATIVE SHALL JUDGE # AT WHAT TIME, AND FOR WHAT LENGTH OF TIME A SHUT-DOWN CAN BE TOLERATED.

B. PROVIDE ALL TEMPORARY PIPING AND WIRING SYSTEMS REQUIRED DURING CONSTRUCTION IN ORDER TO KEEP ALL EXISTING SYSTEMS FUNCTIONING.

C. DEMOLITION, CUTTING AND PATCHING TO RESTORE SURFACES TO ORIGINAL CONDITION AS NECESSITATED FOR ACCESS TO WORK PERFORMED BY THE CONTRACTOR OR HIS SUBCONTRACTORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GRAPHIC REPRESENTATION AND JOB CONDITIONS

A. THE DRAWINGS SHALL SERVE AS WORKING DRAWINGS FOR THE GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT; ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED; AND DO NOT NECESSARILY INDICATE EVERY REQUIRED ITEM.

B. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER THE MECHANICAL AND ELECTRICAL DRAWINGS IN THE REPRESENTATION OF THE GENERAL CONSTRUCTION WORK.

C. ARRANGE WORK IN A NEAT, WELL-ORGANIZED MANNER. COORDINATE WORK WITH OTHER TRADES INVOLVED.

A. THE CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE OF THE WORK, OR AS NOTED IN EACH SECTION.

SUBSTITUTIONS

A. THE MATERIALS, PRODUCTS AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS ESTABLISH A STANDARD OF QUALITY TO BE MET BY ANY PROPOSED SUBSTITUTION.

B. WHEREVER SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS, THE CONTRACTOR SHALL INCLUDE ALL ITEMS OF COST OF THE REVISED DESIGN AND CONSTRUCTION.

SHOP DRAWINGS AND PRODUCT DATA

A. THE CHECKING OF SHOP DRAWINGS IS A GRATUITOUS ASSISTANCE AND IN NO WAY RELIEVES THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS.

B. SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND APPARATUS, AND SUCH OTHER ILLUSTRATIVE MATERIALS AS MAY BE CONSIDERED NECESSARY BY THE ARCHITECT/ENGINEER SHALL BE SUBMITTED BY THE CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION. IN ADDITION, DUCTWORK AND FIRE SPRINKLER LAYOUT DRAWINGS SHALL BE SUBMITTED AS WELL AS PIPING DRAWINGS OF CRITICAL AREAS.

OPERATING AND MAINTENANCE BROCHURE

A. AT THE COMPLETION OF THE PROJECT, EACH CONTRACTOR SHALL PROVIDE THREE (3) HARD BOUND VOLUMES OF MANUALS CONTAINING OPERATING SERVICE AND LUBRICATION INSTRUCTIONS, AND PARTS LISTS FOR ALL MAJOR EQUIPMENT AND MANUFACTURERS GUARANTEES OR WARRANTIES.

RECORD DRAWINGS

A. REFER TO DIVISION 1 REQUIREMENTS FOR RECORD DRAWING SUBMISSION PROCEDURES, FOUNDATIONS AND SUPPORTS

A. THE CONTRACTOR SHALL PROVIDE CONCRETE BASES, HANGERS, AND FOUNDATIONS FOR ALL MACHINERY AND EQUIPMENT SPECIFIED OR SHOWN IN THIS CONTRACT, INCLUDING FANS, AIR CONDITIONING UNITS, PUMPS, MOTORS, ELECTRICAL GEAR, ETC., UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THIS CONTRACTOR SHALL TAKE ALL PRECAUTIONS AGAINST EXCESSIVE NOISE OR VIBRATION BY ISOLATING THE VARIOUS ITEMS OF EQUIPMENT FROM THE BUILDING'S STRUCTURE WITH EITHER SPRING, RUBBER IN SHEAR OR NEOPRENE PAD ISOLATORS AS INDICATED OR AS RECOMMENDED BY THE VIBRATION ISOLATION MANUFACTURER.

B. ALL HANGERS, BRACKETS, CLAMPS, ETC., SHALL BE OF STANDARD WEIGHT STEEL. PERFORATED STRAP HANGERS SHALL NOT BE USED IN ANY WORK. WHEN TWO (2) OR MORE PIPES OR CONDUITS ARE RUN PARALLEL OR WHERE DUCTS INTERFERE WITH THE PROPER LOCATION OF HANGERS, THEY MAY BE SUPPORTED ON TRAPEZOID HANGERS. OTHERS HANGERS SHALL BE HINGED RING MALLEABLE IRON, BY GRINNELL OR FEE AND MASON OR APPROVED EQUAL WITH ROSS AND HANGER ADJUSTERS OF ADEQUATE SIZE TO CARRY THE LOADS IMPOSED. ALL PIPELINES, DUCTWORK AND CONDUIT SHALL BE INDEPENDENTLY SUPPORTED FROM EACH OTHER AND FROM EQUIPMENT.

C. PROVIDE FLEXIBLE CONNECTORS AT ALL ROTATING EQUIPMENT OR FOR EQUIPMENT MOUNTED ON VIBRATION ISOLATORS.

MOTORS AND CONTROLS

A. ALL MOTORS FURNISHED UNDER THIS SPECIFICATION SHALL BE RECOGNIZED MANUFACTURER, OF ADEQUATE CAPACITY FOR THE LOADS INVOLVED. ALL MOTORS SHALL CONFORM TO THE STANDARDS OF MANUFACTURER AND PERFORMANCE OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION AS SHOWN IN THEIR LATEST PUBLICATIONS.

B. ALL MOTORS 3/4 HP AND ABOVE SHALL BE HIGH EFFICIENCY ACCORDING TO IEEE STANDARD 12. FUSED DISCONNECTS AND MOTOR STARTERS FOR EQUIPMENT SHALL BE FURNISHED BY THE TRADE SUPPLYING THE EQUIPMENT. INSTALLATION SHALL BE BY THE ELECTRICAL CONTRACTOR PROVIDE MANUAL OR MAGNETIC STARTERS WITH NECESSARY AUXILIARY CONTACTS AND HOA SWITCH FOR THE SPECIFIED SEQUENCE OF OPERATION.

C. ALL TEMPERATURE CONTROLS UNLESS NOTED OTHERWISE SHALL BE BY THE ELECTRICAL CONTRACTOR.

PLUMBING SCOPE OF WORK

A. THE WORK INCLUDED UNDER THIS CONTRACT CONSISTS OF PROVIDING ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, SERVICES, ETC., NECESSARY TO COMPLETE THE INSTALLATION OF THE PLUMBING, SEWER SYSTEMS, AND OTHER ITEMS DESCRIBED IN THESE SPECIFICATIONS, AS ILLUSTRATED IN THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE ARCHITECT/ENGINEER. PLUMBING WORK IS COMPRISED OF BUT NOT LIMITED TO THE FOLLOWING PRINCIPAL ITEMS:

- 1. SOIL, WASTE, AND VENT PIPING SYSTEMS.
2. COLD WATER DISTRIBUTION SYSTEM.
3. HOT WATER SUPPLY AND DISTRIBUTION SYSTEM.
4. NATURAL GAS PIPING SYSTEM.
5. PLUMBING FIXTURES.
6. MISCELLANEOUS EQUIPMENT FOR SYSTEMS LISTED ABOVE.

PIPING, FITTINGS AND VALVES

A. DOMESTIC WATER, INTERIOR, ABOVE GROUND -
1. PIPE, COPPER TUBE - TYPE "L" HARD TEMPER, WROUGHT COPPER FITTINGS, LEAD FREE 95/5 OR EAGLEHARD SILVERBRITE SOLDER JOINTS.
2. DOMESTIC WATER, INTERIOR, BELOW GROUND -

1. PIPE, COPPER TUBE - TYPE "K" HARD TEMPER, WROUGHT COPPER FITTINGS, LEAD FREE 95/5 OR EAGLEHARD SILVERBRITE
2. VALVES - BALL, NIBCO T-585-70; BUTTERFLY, NIBCO LD-3010; BALANCE, ARMSTRONG CBV 1 OR II.

3. SECURELY ANCHOR, WITH ADEQUATE PROVISIONS FOR EXPANSION AND CONTRACTION. GRADE LINES FREE OF TRAPS, TO LOW POINT AT CUT-OFF AND DRAIN VALVE. VALVES WHERE INDICATED ON THE DRAWINGS, PROVIDE MANUFACTURED WATER HAMMER ARRESTOR FOR EACH FIXTURE OR FOR EACH BATTERY OF FIXTURES SIZED PER MANUFACTURERS RECOMMENDATION. AN ARRESTOR SHALL BE REQUIRED AT EACH SOLENOID ACTUATED CLOSING VALVE.

4. PROVIDE SHUT OFF VALVES ON ALL HOT AND COLD WATER SUPPLY PIPING TO PLUMBING FIXTURES AND EQUIPMENT.

FIRE PROTECTION, INTERIOR -

1. PIPE - SCHEDULE 40, BLACK OR GALVANIZED STEEL, MALLEABLE IRON THREADED, FLANGED OR WELDED FITTINGS OR ROLL OR CUT GROOVE, MECHANICAL JOINT.
2. VALVES - GATE, UL AND FM APPROVED OS & Y, NIBCO T-104-O OR F-607-0; CHECK, UL AND FM APPROVED, NIBCO F-908-B.

ABOVE GROUND, OUTDOOR NATURAL GAS -

1. PIPE - STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS.
PIPE - STEEL PIPE WITH WROUGHT-STEEL FITTINGS AND WELDED JOINTS.
PIPE - STEEL PIPE WITH VIEGA MEGAPRESSO COLD PRESS MECHANICAL JOINT FITTINGS AND JOINTS.

INDOOR NATURAL GAS -

1. PIPE - STEEL PIPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS.
PIPE - STEEL PIPE WITH WROUGHT-STEEL FITTINGS AND WELDED JOINTS.
PIPE - STEEL PIPE WITH VIEGA MEGAPRESSO COLD PRESS MECHANICAL JOINT FITTINGS AND JOINTS.

SANITARY SEWER, VENT, INTERIOR -

1. PIPE - CAST IRON HUB AND SPIGOT, WITH COMPRESSION GASKETS, NO HUB MECHANICAL JOINT VENTS MAY BE GALVANIZED MALLEABLE IRON.
2. ALL DRAINAGE SHALL BE GRADED PER CODE BUT NOT LESS THAN 1/8"/FT UNLESS NOTED OTHERWISE.

CLEANOUTS

A. PROVIDE AT THE BASE OF EACH STACK OR RISER, EACH CHANGE IN DIRECTION IN HORIZONTAL PIPING, WHERE INDICATED ON THE DRAWINGS OR AS REQUIRED BY CODE, PLUS, EXTRA HEAVY CAST BRASS, SCREWED, SCORATED TOPS IN UNFINISHED AREAS, CARPET MARKERS IN CARPET FLOORS, TILE TOP IN TILE FLOORS, STAINLESS STEEL COVER IN FINISHED WALLS. CLEANOUTS SAME SIZE AS PIPE UP TO 4" DIAMETER, 4" CLEANOUTS FOR LARGER PIPE UNLESS OTHERWISE NOTED. CLEANOUTS OUTSIDE THE BUILDING, EXTEND TO GRADE AND TERMINATE WITH X-H SOIL PIPE CLEANOUT SET IN 12" SQUARE 6" THICK CONCRETE PAD.

CLEANOUT STYLES (FCO OR WCO).

1. UNFINISHED FLOORS - CAST IRON ROUND, NICKEL BRONZE TOP, BRONZE PLUG, SMITH 4020.

2. CARPETED FLOORS - CAST IRON ROUND, NICKEL BRONZE TOP, BRONZE PLUG. PROVIDE TOP WITH CARPET MARKER SCREW. SMITH 4020-1Y.

3. VINYL TILE FLOOR - CAST IRON ROUND, NICKEL BRONZE TOP, BRONZE PLUG. PROVIDE TOP RECESSED FOR TILE, SMITH 4120.

4. WALL CLEANOUT - TAPER THREAD BRONZE PLUG STAINLESS STEEL WALL COVER, SMITH 4472. OMIT WALL COVER FOR EXPOSED PIPE.

UNIONS

A. PROVIDE BETWEEN EACH ITEM OF EQUIPMENT AND ITS SERVICE VALVE. COPPER TO FERROUS PIPE CONNECTIONS SHALL HAVE ISOLATION COUPLING OR UNION.

CROSS-CONNECTIONS AND INTERCONNECTIONS

A. NO PLUMBING DEVICE OR PIPING SHALL BE INSTALLED WHICH WILL PROVIDE CROSS-CONNECTION OR INTERCONNECTION BETWEEN A DISTRIBUTING SUPPLY OR WASTE, SO AS TO MAKE POSSIBLE THE BACKFLOW OR BACK-SIPHONAGE OF POLLUTED WATER INTO THE POTABLE WATER SUPPLY SYSTEM. WHERE THE POSSIBILITY OF BACK-SIPHONAGE EXISTS, WATER SUPPLY TO THE FIXTURE SHALL BE INTRODUCED THROUGH A SUITABLE VACUUM BREAKER IN NON-PRESSURIZED SYSTEMS AND A REDUCED PRESSURE TYPE BACK-FLOW PREVENTER IN PRESSURIZED SYSTEMS.

B. PROVIDE BACKFLOW DEVICE ON ALL WATER AND FIRE SERVICES WHERE REQUIRED BY LOCAL CODE OR UTILITY.

INSULATION

A. INSULATE ALL HOT AND COLD WATER PIPING ABOVE THE GROUND.

B. ABOVE GROUND, INTERIOR COLD AND HOT WATER PIPING INSULATION:

1. 1" FIBERGLASS SECTIONAL PIPE COVERING (WITH UNIVERSAL VAPOR BARRIER JACKET FOR COLD WATER). OWENS CORNING OR ACCEPTABLE EQUAL. AT CONTRACTOR OPTION USE 1/2" ARMSTRONG AP OR ACCEPTABLE EQUAL ON COLD PIPING ONLY.

C. BELOW GROUND, INTERIOR COLD AND HOT WATER PIPING INSULATION:

1. CELLULAR GLASS, 1-1/2" THICK, COMPLIANT WITH DIRECT-BURY APPLICATIONS, WITH PLASTIC MIL SHEATHING PROTECTION, SECUREMENT TAPE AND STAPLES.
D. SEAL ALL JOINTS ON COLD WATER INSULATION TO MAINTAIN VAPOR BARRIER.

E. INSULATE AND PROVIDE PVC JACKET ON WASTE AND HOT WATER PIPES BELOW HANDICAP FIXTURES.

F. PROVIDE STENCIL OR LABEL ON EXTERIOR OF INSULATION TO INDICATE PIPE SERVICE, FLOW DIRECTION, NOMINAL PIPE SIZE. STENCIL OR LABEL SHALL BE EASILY VISIBLE FROM GROUND LEVEL.

TEST AND ADJUSTMENTS

A. SOIL, WASTE AND VENT PIPING:

1. FILL WITH WATER TO THE TOP OF THE HIGHEST VENT LINE EXTENDING THROUGH ROOF, AND ALLOW TO REMAIN FOR A PERIOD OF TWO HOURS.

B. WATER LINES:

1. WATER LINES SHALL BE TESTED UNDER 150 LBS. HYDROSTATIC PRESSURE FOR WATER, 150 LBS. AIR PRESSURE FOR GAS FOR A PERIOD OF ONE HOUR.

C. AFTER SUCCESSFUL TESTING, STERILIZE WATER SYSTEM WITH AN APPROVED SOLUTION IN ACCORDANCE WITH LOCAL HEALTH OFFICES. IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652.

D. NATURAL GAS LINES:

1. TEST, INSPECT, AND PURGE NATURAL GAS ACCORDING TO NFPA 54, THE 2018 INTERNATIONAL FUEL GAS CODE, AND AUTHORITIES HAVING JURISDICTION.

2. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT AND APPROVE ALL COLD PRESS MECHANICAL JOINT FITTINGS IN NATURAL GAS SYSTEM.

END OF SECTION

THIS DRAWING IS A SINGLE PART OF AN INTEGRATED SET OF CONSTRUCTION CONTRACT DOCUMENTS. REFER TO DRAWING AND SPECIFICATION SHEETS INCLUDING, BUT NOT LIMITED TO ALL "GENERAL CONDITIONS," SUMMARY OF WORK, AND APPLICABLE SPECIFICATION SECTIONS WHICH APPLY TO THIS DRAWING. REFER TO ALL DOCUMENTS FOR THE COMPLETE SCOPE OF WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INFORMATION CONTAINED IN THE LIST OF DOCUMENTS ISSUED. THIS DRAWING IS SCHEMATIC AND IS NOT TO BE USED AS A SHOP DRAWING. ASSEMBLERS FROM THE SHOWN REQUIRED TO COORDINATE WITH OTHER TRADES OR TO CORRECT TO ACTUAL SITE CONDITIONS ARE THE CONTRACTOR'S RESPONSIBILITY. VERIFY THE LOCATION OR DIMENSIONS OF ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND STRUCTURAL ELEMENTS BEFORE BEGINNING THE WORK. THE DRAWING OF THESE ELEMENTS IN THESE DRAWINGS, THE ACCOMPANYING PROFESSIONAL SEAL INDICATES THAT THE PERSON WHOSE NAME APPEARS ON THE SEAL HAS PREPARED OR SUPERVISED PREPARATION OF THE DOCUMENT ON WHICH THE SEAL APPEARS. THAT PERSON AND THE FIRM FOR WHICH THAT PERSON IS EMPLOYED BY DECLAR RESPONSIBILITY FOR ANY PORTIONS OF THE WORK ON WHICH THEIR SEAL DOES NOT APPEAR.



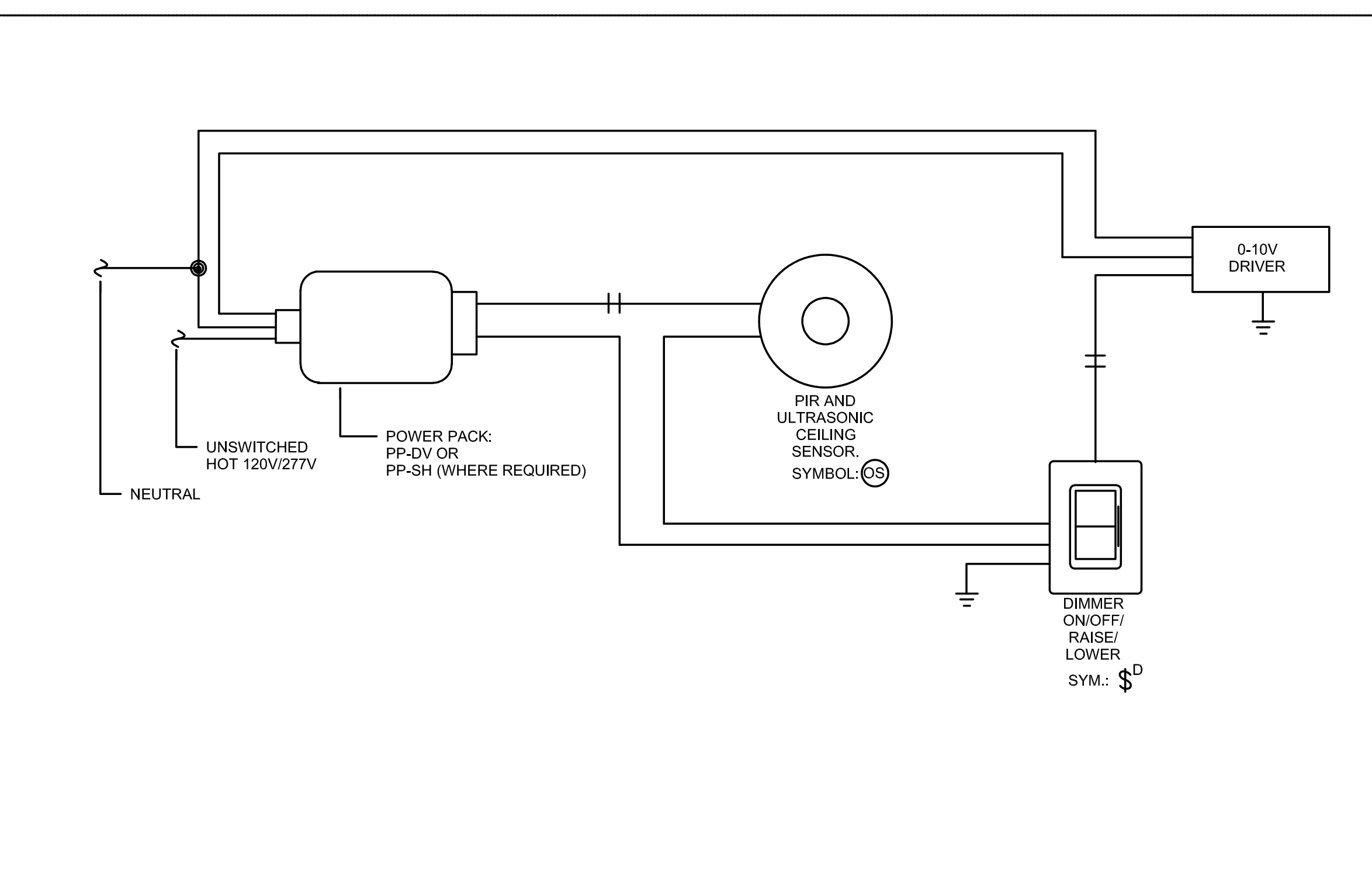
JAY R. GUERRA
LICENSE # E-26382
PROFESSIONAL SEAL

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LEE'S SUMMIT, MO 64063

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8/8/2023
JAY R. GUERRA
LICENSE # E-26382
P600
ISSUE DATE: JULY 14, 2023
COLLINS WEBB #: 23033

LIGHTING CONTROL DIAGRAM



NOTES:

- LUTRON IS THE BASIS OF DESIGN FOR ALL LIGHTING CONTROL COMPONENTS. OR EQUAL BY WATTSTOPPER.
- THE ABOVE DIAGRAM IS A SAMPLE CONNECTION DIAGRAM. INDIVIDUAL ROOMS/AREAS MAY DIFFER. POWER PACKS AND CONTROL WIRING ARE NOT INDICATED ON PLANS. NEVERTHELESS PROVIDE THESE AS REQUIRED FOR A FULLY FUNCTIONAL CONTROL SYSTEM. SEE THE FLOOR PLANS FOR SENSOR, LIGHT FIXTURE, AND COMPATIBLE SWITCH AND DIMMER LOCATIONS, TYPES, AND QUANTITIES. INSTALL THE QUANTITY OF POWER PACKS NECESSARY TO ACCOMMODATE ALL CONTROL ZONES, LIGHT FIXTURES WITH DIFFERENT VOLTAGES, AND LIGHT FIXTURES POWERED BY DIFFERENT CIRCUITS FOR A FULLY FUNCTIONAL CONTROL SYSTEM.
- REFER TO LATEST MANUFACTURER INSTRUCTIONS FOR EXACT WIRING REQUIREMENTS FOR CONTROL SYSTEM COMPONENTS.
- PROVIDE POWER PACKS COMPATIBLE WITH THE DIMMING DRIVERS/BALLASTS OF THE LIGHT FIXTURES THEY CONTROL: 0-10V, MLV, ELV, ETC. INSTALL CORRESPONDING CONTROL WIRING AS REQUIRED.
- LOWERCASE LETTERS NEXT TO SENSORS, LIGHT FIXTURES, DIMMERS, AND SWITCHES ON THE FLOOR PLANS INDICATE THE INTENDED CONTROL ZONING SCHEME. INSTALL, CONNECT, AND PROGRAM THE CONTROL SYSTEM DEVICES AND CABLES AS REQUIRED TO ACCOMPLISH THE SCHEME INDICATED.
 - TWO OR MORE LETTERS NEXT TO SENSORS OR DIMMERS INDICATES SIMULTANEOUS CONTROL OF THOSE ZONES BY THAT DEVICE.
 - NO LETTER INDICATES A SINGLE ZONE FOR THAT ROOM/AREA.
- PROGRAM DAYLIGHT SENSORS TO AUTOMATICALLY RAISE/LOWER LIGHT LEVELS IN RESPONSE TO DAYLIGHT AVAILABLE THROUGH NEARBY WINDOWS. PROGRAM SUCH THAT 50% IS MAINTAINED ON THE WORK SURFACE IN THAT ZONE.
- INSTALL ADJACENT LIGHT SWITCHES AND DIMMERS UNDER A UNIFIED, SCREWLESS FACEPLATE.
- PROGRAM ALL SENSORS FOR AUTO ON/AUTO OFF. SET FOR 30 MINUTE TIME DELAY.
- PROVIDE 6'-0" OF SLACK CABLE AT CEILING SENSOR LOCATIONS TO ALLOW FOR SENSOR ADJUSTMENT FOR OPTIMAL PLACEMENT.
- EMERGENCY LIGHT FIXTURES SHALL OPERATE SIMULTANEOUSLY WITH FIXTURES IN THE SAME CONTROL ZONE. UPON LOSS OF NORMAL BRANCH POWER, EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE TO THE MAXIMUM LEVEL PROVIDED BY THE EMERGENCY BATTERY.
- WHERE A ZONE OF LIGHT FIXTURES CONTAINS FIXTURES WITH EMERGENCY BATTERY PACKS/DRIVERS, CONNECT BATTERY TO UNSWITCHED HOT CONDUCTOR.
- EQUIPMENT FOR EMERGENCY LIGHTING SHALL BE UL924 LISTED.
- LOCATE SENSORS AWAY FROM HVAC DIFFUSERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- LIGHTING CONTROL WIRING IS NOT SHOWN ON THE FLOOR PLANS. NEVERTHELESS, INSTALL ALL REQUIRED WIRING BETWEEN THE POWER PACKS, SENSORS, WALL SWITCHES, AND WALL DIMMERS. INTERCONNECT PER MANUFACTURER'S INSTRUCTIONS TO ACCOMPLISH THE LIGHTING CONTROL SCHEME FOR EACH RESPECTIVE ROOM.
- INSTALL ALL REQUIRED 0-10V WIRING BETWEEN CONTROL SYSTEM AND LIGHT FIXTURES CONTROLLED BY A DIMMING SWITCH.
- PROVIDE A COMPLETE CONTROL SYSTEM THAT COMPLIES WITH CURRENT APPLICABLE ENERGY CODE.

GENERAL ELECTRICAL NOTES FOR REMODEL

- ANY EXISTING EQUIPMENT (WIRING DEVICES, LIGHTS, CONDUIT, WIRING, CIRCUITING, ETC.) NOT DISBURSED BY NEW CONSTRUCTION WORK SHALL BE MAINTAINED AND UPGRADED. THESE DEVICES, IF SHOWN, ARE SHOWN FOR INFORMATION PURPOSES ONLY. THIS CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY ALL EXISTING CONDITIONS. THIS CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL WORK TO BE DONE BY OBSERVATION AT THE JOB SITE. FAILURE TO DO SO WILL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK NECESSARY TO PROVIDE A WORKMANLIKE INSTALLATION.
- THERE SHALL NOT BE ANY INTERRUPTION TO EXISTING SERVICES (ELECTRICAL, FIRE ALARM, ETC.) WITHOUT PRIOR SCHEDULING OF SUCH SERVICES WITH THE OWNER, ARCHITECT, AND ALL OTHER PARTIES INVOLVED.
- THIS CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO ANY EXISTING SYSTEMS WHICH ARE TO REMAIN, AND SHALL UPON COMPLETION, DELIVER ALL "RECORD" DRAWINGS TO THE OWNER INDICATING SUCH CHANGES. THIS CONTRACTOR SHALL MAINTAIN IN THE PROJECT CONSTRUCTION OFFICE, AS THE WORK PROGRESSES, AN UP-TO-DATE, NEATLY MARKED COPY OF THESE DRAWINGS FOR REVIEW BY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE.
- WHERE FEEDERS OR OTHER CIRCUITS ARE ABANDONED AND ARE CONCEALED IN WALLS OR FLOORS, SUCH CIRCUITS SHALL BE DISCONNECTED AT BOTH ENDS AND LABELED. ALL EXPOSED CONDUITS, CONDUITS ABOVE LAY-IN CEILING, OR EQUIPMENT WHICH IS ABANDONED SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
- WHERE NEW ADDITION WORK OR REMODELING INTERFERES WITH CIRCUITS IN ROOMS OTHERWISE UNDISBURSED, CIRCUITS SHALL BE REWORN AS REQUIRED TO MAINTAIN SERVICE.
- ALL EQUIPMENT, FIXTURES, PANELBOARDS, CONDUIT, WIRING, ETC. WHICH ARE REMOVED SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- WHERE DEVICES, FIXTURES, OR EQUIPMENT ARE EXISTING IN SUITABLE LOCATIONS) FOR NEW CONSTRUCTION WORK AS INDICATED ON PLANS, EXISTING ROUGH-IN BOXES AND CONDUIT MAY BE UTILIZED IF THEY ARE OF PROPER SIZE, MATERIAL, AND NEW DEVICES AND WIRING ARE INSTALLED.
- CIRCUIT ROUTINGS SHOWN IN REMODELED AREAS MAY BE MODIFIED TO SUIT FIELD CONDITIONS, HOWEVER, CARE SHOULD BE TAKEN TO KEEP DEVICES AND/OR FIXTURES AND CIRCUITS APPROXIMATELY AS INDICATED TO AVOID OVERLOADING OF THE CIRCUIT.
- UNLESS NOTED OTHERWISE WHERE DEVICES (WITH CONCEALED CONDUITS) ARE REMOVED LEAVING EXPOSED RECESSES, ETC., AFTER THE FINAL SURFACE IS APPLIED THEN BLANK STAINLESS STEEL COVER PLATES SHALL BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL MATERIALS AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SAME DURING THE COURSE OF THE WORK. EXISTING UTILITIES, EXISTING BUILDING, AND/OR MATERIALS WHICH ARE DAMAGED BY THIS CONTRACTOR'S PART OR ANY PARTIES ASSOCIATED WITH THE CONTRACTOR SHALL BE REPAIRED OR REPLACED IN A TIMELY MANNER, AND TO THE ARCHITECT'S AND OWNER'S WRITTEN ACCEPTANCE.
- COORDINATE THE REMOVAL OR RELOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL POWER AND CONTROL CIRCUITS FOR EQUIPMENT BEING REMOVED. WHERE EXISTING EQUIPMENT IS BEING REPLACED WITH NEW EQUIPMENT OR RELOCATED EQUIPMENT, ELECTRICAL CONTRACTOR MAY REUSE THE EXISTING CONDUIT AND ROUGH-IN LOCATIONS IF POSSIBLE, BUT NEW CONDUCTORS SHALL BE PROVIDED.
- ALL WORK SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST EDITION NATIONAL ELECTRICAL CODE, UNDERWRITERS LABORATORIES, INC. OCCUPATIONAL SAFETY AND HEALTH ACT, AND ALL STATE, LOCAL, MUNICIPAL, AND STATUTORY REQUIREMENTS.

ELECTRICAL GENERAL NOTES

- ALLOWANCES ARE TO BE INCLUDED FOR UNFORESEEN CONDITIONS THAT MAY AFFECT THE CONTRACTOR'S SCOPE OF WORK. WORK CONDITIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN ARE TO BE INCLUDED IN THIS ALLOWANCE.
- ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 75% CONDUITS CONNECTED TO TERMINAL UNITS AND EQUIPMENT HAS LISTED FOR A MINIMUM OF 75% CONDUITS PER TERMINAL UNIT. EQUIPMENT WILL BE BOUND (E/C) OF NO PATHS SHOWN TO HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO I.E.C. TABLE 310-14 AND/LL. NO. 489 REQUIREMENTS.
- SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND CONDUCTORS ARE TO BE LISTED AND IDENTIFIED TO BE AWAY FROM A MINIMUM OF 75% CONDUCTOR TERMINATION.
- ALL CONDUIT INSTALLED IN ROOMS SHALL BE ELECTRICALLY METALLIC FINING (EMT) UNLESS OTHERWISE NOTED. UNLESS OTHERWISE SPECIFIED, A MINIMUM OF 1/2" THICK PEX OR CO-EXTRUDING CONDUITS SHALL BE USED. ALL WIRING SHALL BE MARKED OR IDENTIFIED AND TO BE PROVIDED WITH ONE HOT, ONE NEUTRAL, AND ONE EQUIPMENT GROUND CONDUCTOR.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING INSTALLED AND PLACED IN CONDUIT.
- ALL LOW VOLTAGE CABLING TO BE FLEXIBLE RATED OR INSTALLED WHERE LOCATED ABOVE CEILING.
- ELECTRICAL CONTRACTOR TO INCLUDE GROUND WIRE IN ALL RACEWAYS. SIZE CALCULATED AS NECESSARY TO COMPLY WITH I.E.C.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND DETAILS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND ANY OTHER EQUIPMENT INSTALLED IN THE CEILING SYSTEM. VERIFY EXACT MOUNTING HEIGHTS AND FINISHES WITH ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF LIGHTING MOUNT ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION.
- ELECTRICAL CONTRACTOR TO VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH MECHANICAL DRAWINGS PRIOR TO FINAL PLACEMENT.
- BRANCH CIRCUITS SHOWN WITH TWO GROUND CONDUCTORS SHALL HAVE ONE EQUIPMENT GROUND CONDUCTOR (GREEN) AND ONE SOLEIATED GROUND CONDUCTOR (GREY WITH YELLOW STRIPS) INSTALLED IN RACEWAY.
- ALL PANELBOARDS ARE TO BE INSTALLED WITH A MINIMUM OF (3) 3/4" CONDUITS STUDIED UP TO ACCESSIBLE CEILING SPACE FOR FUTURE USE.
- ALL WORK SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST EDITION NATIONAL ELECTRICAL CODE, UNDERWRITERS LABORATORIES, INC. OCCUPATIONAL SAFETY AND HEALTH ACT, AND ALL STATE, LOCAL, MUNICIPAL, AND STATUTORY REQUIREMENTS.
- EACH INDIVIDUAL BRANCH CIRCUIT SHALL BE PROVIDED WITH ITS OWN HOT, NEUTRAL, AND GROUND CONDUCTOR. MULTI-WIRE BRANCH CIRCUITS (SERVED NEUTRALS) SHALL NOT BE ALLOWED UNLESS OTHERWISE SPECIFIED. SERVED NEUTRALS SHALL BE IDENTIFIED BY MARKING. SERVED NEUTRALS SHALL BE PROVIDED WITH ANGLE-LITS IN ACCORDANCE WITH 460.150(B)(1).
- ALL 120 VOLT CIRCUITS LONGER THAN 100 FEET IN LENGTH SHALL USE #12 AWG CONDUCTORS.
- ALL CIRCUITS SHALL HAVE A SEPARATE GROUNDING CONDUCTOR SIZED PER I.E.C. SECTION 250.122.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT DIRECTORY WITH THREE CIRCUIT IDENTIFICATION CARDS UNDER PLANTS COVER ON THE INSIDE OF EACH PANEL. SERVED NEUTRAL CIRCUITS ARE REQUIRED. CIRCUIT IDENTIFICATION CARDS SHALL BE MANIPULATED ON ALL DISCONNECT SWITCHES, PANELBOARDS AND SWITCHBOARDS.
- ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND PERSONAL AND WORK AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE FURNISHING AND INSTALLATION, COMPLETE OF ALL WIRING MATERIALS AND METHODS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED, COMPLETELY COORDINATED WITH WORK OF ALL OTHER TRADES.
- CIRCUITS SHOWN ON DRAWINGS WITH ONLY A PANEL DISCONNECT SHALL BE CONNECTED TO A QUALITY BREAKER CIRCUIT BREAKER FOR EACH HOMEKIT.
- FIELD CORRECTIVE ALL FURNITURE POWER FEED LOCATIONS PRIOR TO ROUGH-IN.
- ALL DUPLEX RECEPTABLES WITHIN 6'-0" OF A SINK OR LAVATORY SHALL BE OF A GFI TYPE.
- ALL FIRE ALARM SYSTEMS/STROBE DEVICES LOCATED IN THE SAME ROOM OR AREA SHALL HAVE SHALL BE SUBJECTED TO FLASH AT THE SAME RATE PER LATEST FIRE ALARM CODE.

GENERAL ELECTRICAL DEMOLITION NOTES

- ANY EXISTING DEVICES AND/OR CIRCUIT SHOWN ARE INDICATED ONLY FOR INFORMATION PURPOSES. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CONDITIONS AS THEY EXIST AND SHALL REMOVE, RELOCATE AND/OR REWORK ANY ELECTRICAL EQUIPMENT OR CIRCUITS NECESSARY FOR A COMPLETE REMODEL SYSTEM.
- UNLESS NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL WORK TO BE DONE BY OBSERVATION AT THE JOB SITE. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK NECESSARY TO PROVIDE A WORKMANLIKE INSTALLATION.
- ALL WORK SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LATEST NATIONAL ELECTRICAL CODE, UNDERWRITERS LABORATORIES, INC. OCCUPATIONAL SAFETY AND HEALTH ACT, AND ALL STATE, LOCAL, MUNICIPAL, AND STATUTORY REQUIREMENTS.
- THERE SHALL NOT BE ANY INTERRUPTIONS TO THE EXISTING BUILDING SERVICES WITHOUT A (7) BUSINESS DAY PRIOR NOTICE OF SUCH OUTAGES) TO THE ARCHITECT, BUILDING OPERATIONS MANAGER, AND ALL OTHER PARTIES INVOLVED.
- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO THE EXISTING SYSTEMS WHICH ARE TO REMAIN AND SHALL UPON COMPLETION OF THIS PROJECT, DELIVER "RECORD" DRAWINGS TO THE ARCHITECT INDICATING ALL SUCH CHANGES. THIS CONTRACTOR SHALL MAINTAIN IN THE PROJECT OFFICE, AS THE WORK PROGRESSES, AN UP-TO-DATE, NEATLY MARKED COPY OF THESE DRAWINGS FOR REVIEW BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.
- WHERE FEEDERS OR OTHER CIRCUITS ARE ABANDONED AND ARE CONCEALED WITHIN WALLS OR FLOORS, SUCH CIRCUITS SHALL BE DISCONNECTED AT BOTH ENDS AND LABELED. ALL EXPOSED CONDUITS, CONDUITS ABOVE LAY-IN CEILING, OR EQUIPMENT WHICH IS ABANDONED SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
- WHERE NEW WORK INTERFERES WITH CIRCUITS IN ROOMS OTHERWISE UNDISBURSED, EXISTING CIRCUITS SHALL BE REMOVED AS REQUIRED TO MAINTAIN SERVICE.
- ALL EQUIPMENT, FIXTURES, PANELS, ETC. WHICH ARE REMOVED SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED.
- COORDINATE THE ROUTING OF ALL CONDUITS AND THE LOCATIONS OF ALL EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS WITH DUCTS, PIPES, ETC.
- CIRCUIT ROUTINGS SHOWN IN REMODELED AREAS MAY BE MODIFIED TO SUIT FIELD CONDITIONS, HOWEVER, CARE SHOULD BE TAKEN TO KEEP DEVICES AND/OR FIXTURES AND CIRCUITS APPROXIMATELY AS INDICATED TO AVOID OVERLOADING OF THE CIRCUIT.
- WHERE DEVICES (WITH CONCEALED CONDUITS) ARE REMOVED LEAVING EXPOSED RECESSES, ETC., AFTER THE FINAL SURFACE IS APPLIED THEN BLANK STAINLESS STEEL COVER PLATES SHALL BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES, THE CONDITION OF EXISTING BUILDING DEVICES, EXISTING BUILDING, AND/OR MATERIALS WHICH ARE DAMAGED BY THIS CONTRACTOR'S PART OR ANY PARTIES ASSOCIATED WITH THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, IN A TIMELY MANNER, AND TO THE ARCHITECT'S AND OWNER'S WRITTEN ACCEPTANCE.
- REMOVE ALL REMOVED, EX. AND OTHER FLEXIBLE CONDUIT OR CABLE SYSTEMS, EXPOSED WIRING, ETC. FOR ALL ABANDONED CIRCUITS. INSTALL ALL NEW AND REMAINING FEEDER CIRCUITS IN DWI, MW OR ROID CONDUIT, AS INDICATED BY THE CONTRACTOR.
- ALL NEW AND EXISTING DEVICES AND EQUIPMENT LOCATED IN EXISTING REMAINING WALLS, FLOORS, AND CEILING SHALL BE CONNECTED WITH CONCEALED CONDUIT. THE ELECTRICAL CONTRACTOR SHALL ALLOW ALL ASSOCIATED COSTS IN BID TO CUT, CHANNEL, AND PATCH TO MATCH EXISTING WALLS, FLOORS, AND CEILING LOCATIONS. ALL CONDUIT, IF IT IS THE INTENT THAT ALL FIXTURES, EQUIPMENT AND DEVICES IN THE REMODELED AREAS ARE TO BE REWIRED WITH NEW WIRING. ALL DEVICES SUCH AS SWITCHES, RECEPTABLES, TELEPHONE JACKS, ETC. SHALL BE REMOVED WITH NEW DEVICES. WHERE EXISTING CIRCUITS ARE TO BE REWIRED WITH NEW WIRE, ONLY WHERE ABSOLUTELY NECESSARY DUE TO EXISTING BUILDING CONDITIONS SHOULD SHIELDING MOUNTED WIRING BE INSTALLED - WRITTEN APPROVAL SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO ANY SUCH INSTALLATION.
- WHERE EXISTING ELECTRICAL LIGHTING AND DISTRIBUTION PANELBOARDS ARE TO BE REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN POWER TO BRANCH AND FEEDER CIRCUITS UNTIL A PERMANENT PANEL IS INSTALLED TO RECONNECT THE EXISTING REMAINING CIRCUITS.
- COORDINATE THE REMOVAL OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL POWER AND CONTROL CIRCUITS FOR EQUIPMENT BEING REMOVED. WHERE EXISTING EQUIPMENT IS BEING REPLACED WITH NEW EQUIPMENT OR RELOCATED EQUIPMENT, ELECTRICAL CONTRACTOR MAY REUSE THE EXISTING CONDUIT AND ROUGH-IN LOCATIONS IF POSSIBLE, BUT NEW CONDUCTORS SHALL BE PROVIDED.
- WHERE EQUIPMENT IS REMOVED FROM OR RELOCATED TO A LOCATION WHICH PENETRATES A FIRE RATED STRUCTURE, THIS CONTRACTOR SHALL PROVIDE THE APPROPRIATE FIRE STOPPING MATERIALS SUCH THAT THE RATING OF THE STRUCTURE WILL BE MAINTAINED.

ELECTRICAL SYMBOLS LEGEND

CONDUITS:	
	HOME RUN TO PANEL, CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED. ALL CONDUITS TO BE #12 EXCEPT WHERE NOTED. CONDUIT TO BE 1/2" OR AS NOTED ON PLANS AND SPECIFICATIONS.
	CONDUIT WITH 3 #12 CONDUCTORS. PARTIAL CIRCUIT
	GROUND CONNECTION.
LIGHTING:	
	CEILING LIGHT FIXTURE, LETTER INDICATES FIXTURE TYPE.
	WALL MOUNTED LIGHT FIXTURE, LETTER INDICATES FIXTURE TYPE.
	LED LIGHT FIXTURE.
	LED DUAL SWITCHED LIGHT FIXTURE.
	LED EMERGENCY OR NL LIGHT FIXTURE.
	LED STRIP LIGHT FIXTURE.
	CEILING MOUNTED EXIT LIGHT.
	WALL MOUNTED EXIT LIGHT, +7' -6" OR AS NOTED.
SWITCHES:	
	SINGLE POLE SWITCH, +3'-10" OR AS NOTED.
	THREE-WAY SWITCHED, +3'-10" OR AS NOTED.
	MANUAL MOTOR SWITCH.
	KEYED SWITCH.
	DIMMER SWITCH.
	OCCUPANCY SENSOR SWITCH.
	DUAL TECHNOLOGY OCCUPANCY SENSOR, 360° VIEW, CEILING MOUNTED.
	MOTION SENSOR, 2000 SQUARE FOOT COVERAGE.
	MOTION SENSOR, 500 SQUARE FOOT COVERAGE.
	POWER PACK LUTRON #PP-277A, 20 AMP BALLAST RELAY CONTACT RATING.
RECEPTABLES:	
	20 AMP DUPLEX RECEPTACLE, +18" OR AS NOTED.
	GROUND FAULT DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS.
	RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS.
	FOUR-POLE RECEPTACLE, +18" OR AS NOTED.
	4-POLE RECEPTACLE, MOUNTED 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS.
	FLUSH FLOOR BOX.
COMMUNICATIONS:	
	TELEPHONE OUTLET, +18" WITH 1/2" CONDUIT TO ABOVE CEILING.
	TELEPHONE/DATA OUTLET, +18" WITH 1" CONDUIT TO ABOVE CEILING.
	TELEPHONE/DATA OUTLET, 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS.
	DATA OUTLET, 6" ABOVE COUNTER TOP OR AS NOTED ON ARCH. DRAWINGS.
	FLUSH FLOOR DATA OUTLET.
FIRE ALARM AND SECURITY:	
	FIRE ALARM HORN AND STROBE, +60" TO BOTTOM OF DEVICE.
	STROBE ONLY, +60" TO BOTTOM OF DEVICE.
DEVICES:	
	THERMOSTAT (FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR).
SERVICE EQUIPMENT:	
	PANELBOARD, TOP 6'-0".
	MAIN DISTRIBUTION PANEL, TOP +6'-0".
JUNCTION BOXES, MOTORS, STARTERS, AND DISCONNECTS:	
	JUNCTION BOX.
	DISCONNECT SWITCH.
	DISCONNECT SWITCH FURNISHED W/ EQUIPMENT (INSTALLED BY ELEC. CONTRACTOR).
	MOTOR CONNECTION.
SECURITY:	
	AIR PHONE: WEATHER PROOF J-BOX WITH 3/4" CONDUIT ROUTED TO 3" ABOVE FINISH CEILING.
	CARD READER: JUNCTION BOX MOUNTED AT +3'-6" AFF WITH 3/4" CONDUIT ROUTED TO 3" ABOVE FINISH CEILING.
	KEYPAD: WEATHER PROOF J-BOX MOUNTED AT +3'-6" AFF WITH 3/4" CONDUIT ROUTED TO 3" ABOVE FINISH CEILING.
ABBREVIATIONS:	
WP	WEATHERPROOF.
AFF	ABOVE FINISHED FLOOR.
ER	EXISTING TO REMAIN.

NOTE: NOT ALL SYMBOLS ARE USED.

LIGHTING CONTROL DEVICE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	COVERAGE (SQ.FT.)	FUNCTION	DESCRIPTION
\$0S	LUTRON	MS-B102-WH	900 MAJOR MOTION 400 MINOR MOTION	ON / OFF / SENSOR	PASSIVE INFRARED AND ULTRASONIC WALL LIGHT SWITCH / SENSOR
\$0S	LUTRON	MS-Z101-WH	900 MAJOR MOTION 400 MINOR MOTION	ON / OFF / RAISE / LOWER / SENSOR	PASSIVE INFRARED WALL LIGHT SWITCH / DIMMER / SENSOR
\$S	LUTRON	MS-OPS2-WH	900 MAJOR MOTION 400 MINOR MOTION	ON / OFF / SENSOR	PASSIVE INFRARED WALL LIGHT SWITCH / SENSOR
(0S)	LUTRON	LOS-CDT-500-WH	500	SENSOR	PIR AND ULTRASONIC CEILING MOUNT OCCUPANCY SENSOR
(0S)	LUTRON	LOS-CDT-1000-WH	1000	SENSOR	PIR AND ULTRASONIC CEILING MOUNT OCCUPANCY SENSOR
(0S)	LUTRON	LOS-CDT-2000-WH	2000	SENSOR	PIR AND ULTRASONIC CEILING MOUNT OCCUPANCY SENSOR
\$D	LUTRON	DVTV	-	ON / OFF / RAISE / LOWER	ON/OFF BUTTON PLUS RAISE / LOWER DIMMER SLIDER.
\$	LUTRON	NTSTV	-	ON / OFF	MOMENTARY SWITCH.

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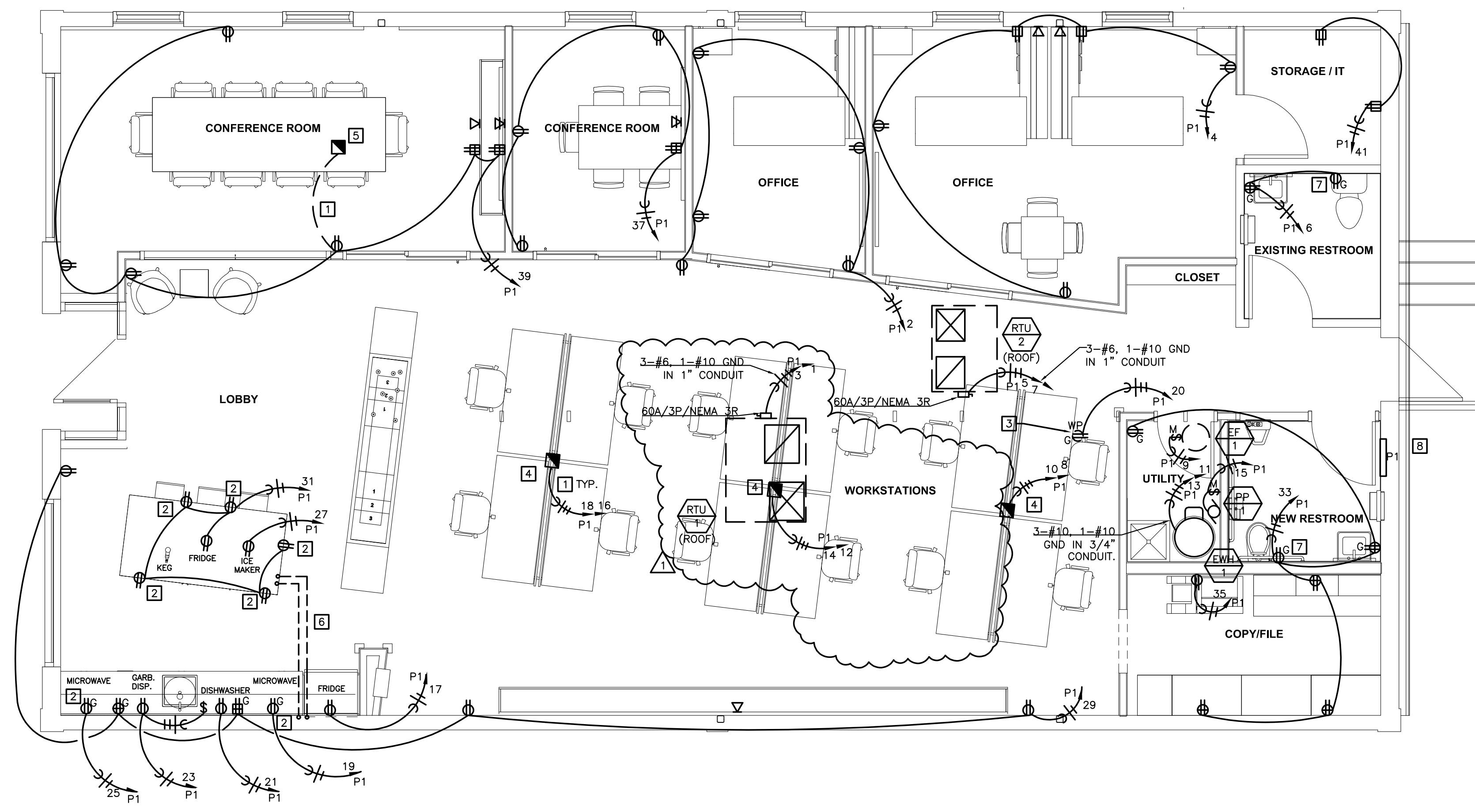


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PROFESSIONAL SEAL

ELECTRICAL DETAILS

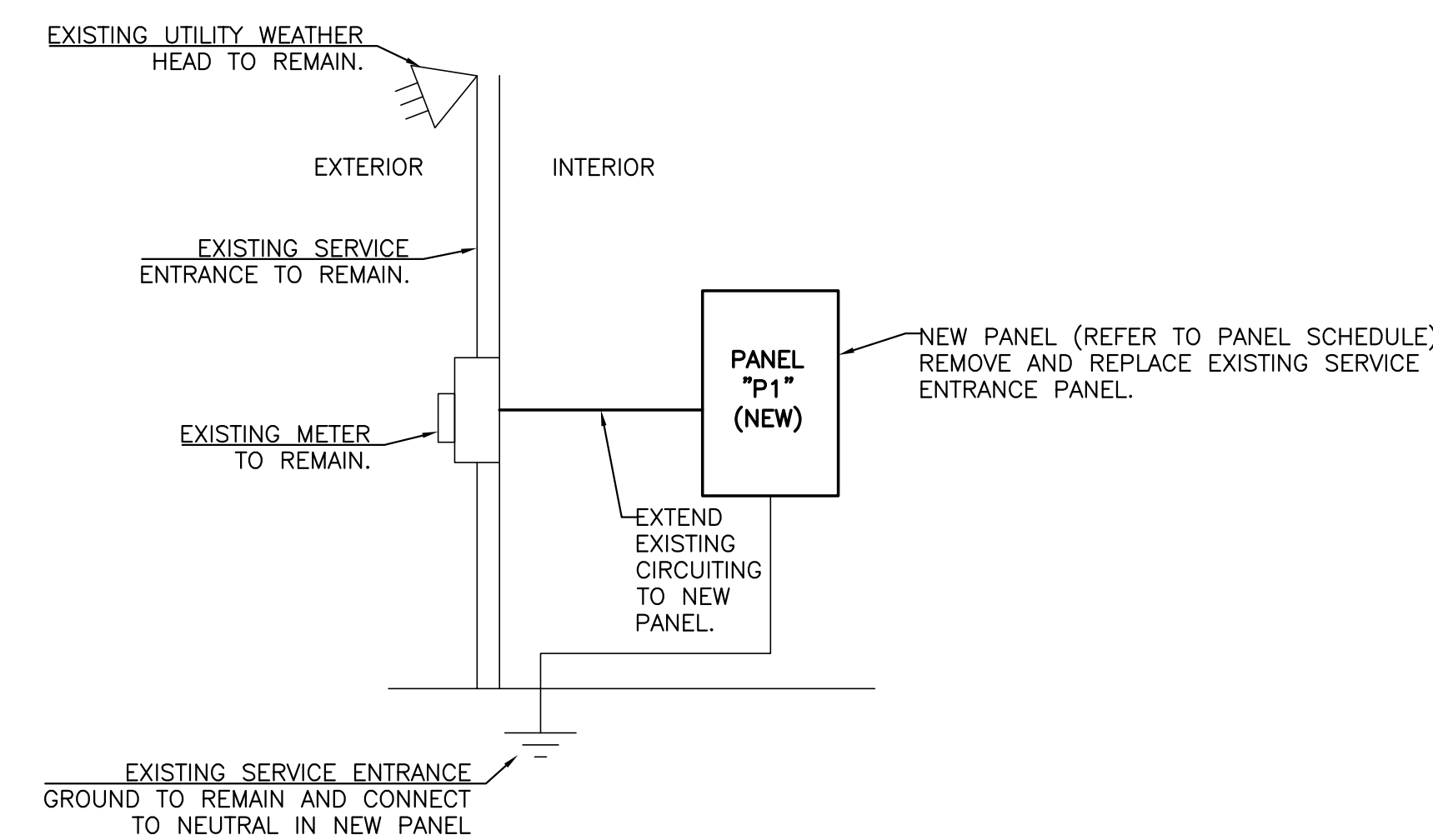
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ELECTRICAL POWER PLAN
1/4"=1'-0"

PANELBOARD: Panel (NEW)										
BUS AMPS: 250A MAIN SIZE/TYPE: 225A MCB VOLTS/PHASE: 240/120V, 1PH, 3W				FAULT CURRENT AC RATING: 10,000 FULLY RATED SERVES: FIRST FLOOR MOUNTING: RECESSED LOCATION: NEW RESTROOM				EQUIPMENT GROUND BUS		
CKT NO	DESCRIPTION	VOL TAMP/PHASE		BKR P	P	BKR VOL TAMP/PHASE		DESCRIPTION	CKT NO	
		A	B			A	B			
1	RTU-1	3,816		50	2	1	20	900	Small Office, Hall Recept	2
3	RTU-2	3,816		1	1	20		1,260	Large Office Recept	4
5	RTU-2	3,144		40	2	1	20	360	Existing Restroom Recept	6
7		3,144		1	1	20		720	Workstation Power	8
9	EF-1	150		20	1	1	20	720	Workstation Power	10
11	EFH-1	3,000		30	2	1	20	720	Workstation Power	12
13		3,000		1	1	20		720	Workstation Power	14
15	PP-1	78		20	1	1	20	720	Workstation Power	16
17	Fridge Recept	1,500		20	1	1	20	720	Workstation Power	18
19	Microwave Recept	1,500		20	1	1	20	180	Recept	20
21	Dishwasher Recept	1,500		20	1	1	20	726	Lights - Conference Rooms, Offices, Stor	22
23	Garbage Disposal Counter Top, Lobby Recept	1,740		20	1	1	20	701	Lights - Lobby, Kitchen, Track Lights, Back	24
25	Microwave Recept	1,500		20	1	1	20	914	Lights - Workstations, Utility, New Restroo	26
27	Ice Maker Recept	1,500		20	1	1	20		SPARE	28
29	Kitchen Counter, Open Office North Wall, Est	1,080		20	1	1	20		SPARE	30
31	Breakroom Table, Beverage Cooler Recept	1,080		20	1	1	20		SPARE	32
33	Utility, New Restroom, Copy/File Recept	1,080		20	1	1	20		SPARE	34
35	Copier Recept	1,500		20	1	1	20		SPARE	36
37	Small Conf Room Recept	900		20	1	1	20		SPARE	38
39	Large Conf Room Recept	1,800		20	1	1	20		SPARE	40
41	Storage/IT Recept	720		20	1	1	20		SPARE	42
SUBTOTAL		18,390	19,158					5,080	4,301	
TOTAL PHASE A - VA		23,450								
LOAD			COOLING	13,920	1.00					
AMPS		195								
TOTAL PHASE B - VA		23,459								
LOAD			HEATING	0						
AMPS		195								
TOTAL PNL BD - VA		46,909								
LOAD			LIGHTING	2,341	1.25					
AMPS		195								
TOTAL PNL BD - VA		46,909								
LOAD			RECEPTACLES	24,420	1.0/1.5					
AMPS		195								
LOAD			MOTORS	228	1.00					
SUPP HEAT		6,000								
MISC EQUIP		1.00								
TOTAL DEMAND										40,284 VA
TOTAL DEMAND										168 A

PANELBOARD NOTES
SERVICE ENTRANCE RATED



ELECTRICAL RISER DIAGRAM
NOT TO SCALE

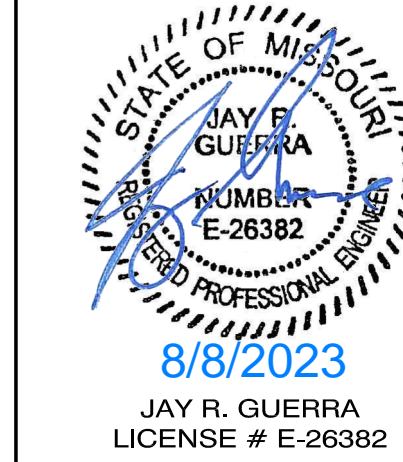
ELECTRICAL GENERAL NOTES
(SEE SHEET E000 FOR ELECTRICAL GENERAL NOTES)

- POWER PLAN NOTES**
- 1 PROVIDE A 1-1/4" CONDUIT WITH PULL STRING FROM FLOOR BOX TO UP ABOVE ACCESSIBLE CEILING SPACE OF DATA CABLING, TRENCH FLOOR TO THE NEAREST WALL TO INSTALL CONDUIT. MINIMIZE TRENCH QUANTITIES AND LENGTHS TO THE EXTENT POSSIBLE. PATCH FLOOR TO MATCH ARCHITECTURAL FINISHES.
 - 2 COORDINATE DEVICE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.
 - 3 PROVIDE RECEPTACLE MOUNTED 12" ABOVE ROOF TO RIGID METAL CONDUIT OR SUITABLE STEEL UNISTRUT SUPPORTS. SEAL ROOF PENETRATION AND PROVIDE FLASHING AS REQUIRED.
 - 4 PROVIDE ON-GRADE LISTED, 2-GANG, FLUSH FLOOR BOX WITH FURNITURE CONNECTION COVER PLATE, WIREMOLD RFB42C300G-RFB24FF OR EQUAL. SAW CUT FLOOR AS REQUIRED TO INSTALL BOX. PATCH FLOOR TO MATCH ARCHITECTURAL FINISHES. COORDINATE ROUGH-IN LOCATION WITH FURNITURE VENDOR.
 - 5 PROVIDE ON-GRADE LISTED, 4-GANG, FLUSH FLOOR BOX WITH RECESSED POWER AND DATA OUTLETS, AND 6" COVER. PROVIDE WITH TWO(2) DUPLEX RECEPTACLES AND ONE DATA OUTLET. WIREMOLD RFB42C300G-6CTC2 OR EQUAL. SAW CUT FLOOR AS REQUIRED TO INSTALL BOX. PATCH FLOOR TO MATCH ARCHITECTURAL FINISHES. COORDINATE ROUGH-IN LOCATION WITH FURNITURE VENDOR.
 - 6 TRENCH FLOOR TO NEAREST WALL TO INSTALL CONDUIT FOR ROUTING POWER TO ISLAND. PROVIDE 1#12 HOT, 1#12 NEUTRAL, 1#12G, 3/4" CONDUIT. COORDINATE EXACT ROUGH-IN HEIGHT LOCATION WITH FURNITURE INSTALLER. PATCH FLOOR TO MATCH ARCHITECTURAL FINISHES.
 - 7 INSTALL 12" ABOVE FINISHED FLOOR. COORDINATE INSTALLATION WITH MANUFACTURER DETAILS.
 - 8 CONTRACTOR TO REPLACE AND PROVIDE WITH NEW PANEL. SEE PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.

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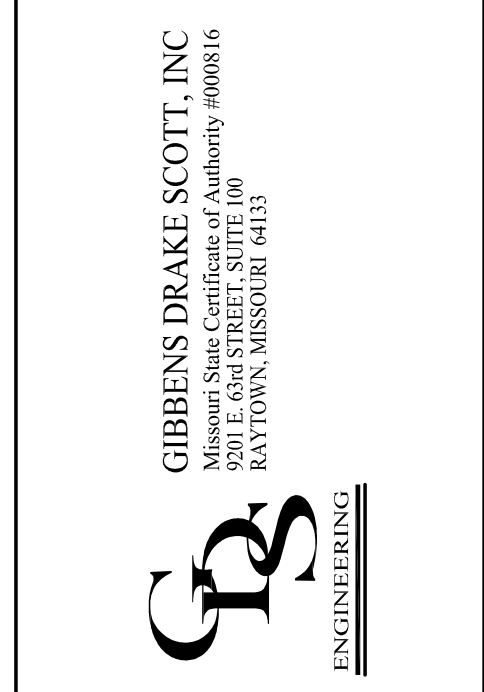
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LIGHT FIXTURE SCHEDULE				
TYPE	MANUFACTURER	LAMP	VOLTS WATTS	DESCRIPTION
A	HE WILLIAMS - #4CR-L15/935-BLK-DIM -UNV-LM-CS-AD-(xx) OR EQUAL	LED 3500°K 1500LM	277/120 17.7	4" CYLINDER PENDANT, 0-10V DIMMING DRIVER, 40" DISTRIBUTION. COORDINATE WITH ARCHITECT ON MOUNTING TYPE AND LENGTH. TEXTURED BLACK FINISH.
B	AXIS LIGHTING - TB2DLEDPAT-X(3x3x3x3)- 750-90-35-50-X-W- 120-DP-1-CTS(Ø)-OS(Ø) OR EQUAL	LED 3500°K 750LM/FT	120 91.2	CEILING MOUNTED LINEAR LED PENDANT, FLUSH SPOTLESS LENS, X-JUNCTION INSTALLATION AS INDICATED ON PLANS, 0-10V DIMMING DRIVER, SCREW SLOT MOUNTING TYPE, 36" CABLE LENGTH, WHITE FINISH.
C	AXIS LIGHTING - #TB2DLED-1000-300-90- 35-BW-50-8-BLK-120- DP-1-CK(Ø)-OS(Ø) OR EQUAL	LED 3500°K 750LM/FT	120-277 106.4	CEILING MOUNTED 8FT LINEAR LED PENDANT, FLUSH SPOTLESS LENS, 0-10V DIMMING DRIVER, DRYWALL MOUNTING TYPE, 36" CABLE LENGTH, BLACK FINISH.
D	GOTHAM - #EV06-35/20-AR-MWD-10- -WOLT- GZ10-TRW OR EQUAL	LED 3500°K 85CRI 1500LM	120-277 19.7	6" CIRCULAR DOWNLIGHT, LINEAR DIMMING TO 10% MIN. FIXTURES ARE WET LOCATION, COVERED CEILING, CLEAR REFLECTOR COLOR, WHITE PAINTED FLANGE, MATTE-DIFFUSE FINISH.
E	EUREKA LIGHTING - #4038-LED,4-35-120- DV-56-(xx)-RC-BLK-WH OR EQUAL	LED 3500°K 85CRI 425LM	120-277 4	CEILING MOUNTED LED PENDANT, 0-10V DIMMING, COORDINATE WITH ARCHITECT ON MOUNTING TYPE AND STEM LENGTH. STEEL HOUSING, BLACK STRUCTURE FINISH, WHITE BAFFLE FINISH.
F	PRIZM - #PZM-TLH-65-24V-RGBW -XX #PZM-SLOTLENS-(X)M OR EQUAL	LED 3000°K 90CRI 240LM/FT	24VDC 4.4W/FT	RGBW LED TAPE LIGHT, 10MM WIDTH, 22FT MAX RUN, CONTROL VIA DMX FOR COLOR AND DIMMING USING DMX RECEIVER, CUTTABLE EVERY 6.56", COORDINATE WITH ARCHITECT ON TAPE LIGHT LENGTH, IP65 RATING, MINI FLANGE FROSTED POLYCARBONATE LENS, ANODIZED ALUMINUM FINISH.
G	GARDOO - PWB-186L-1150-WW-G2 -3-UNV-DD-MMRI-PCB- F1-BK OR EQUAL BY: MICORAM-EDISON LITHONIA	LED 3000°K 85CRI 5.712 NOMINAL LUMENS	120-277 5T	EXTERIOR WALL SCORPE WITH INTEGRAL MOTION SENSOR, INTEGRAL PHOTOCELL AND TYPE 3 DISTRIBUTION, PROVIDE 0-10V DIMMING DRIVER, MOUNT FIXTURE AT 9' AFF, COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT, BLACK FINISH, PROVIDE WITH BATTERY PACK REMOTE MOUNTED INSIDE THE BUILDING ABOVE ACCESSIBLE CEILING.
H	COOPER LIGHTING HALO - #L815MED10FL935MB OR EQUAL	LED 3500°K 90CRI 1104LM	120-277 12.7	4 INCH LED TRACK LIGHT HEAD, 45 DEGREE BEAM, BLACK PAINTED FINISH.
HT	COOPER LIGHTING HALO - #L85(X)M8L902L980MB OR EQUAL	TRACK	120-277 3.6	1 CIRCUIT TRACK FOR LED LIGHT TRACK HEADS.
M	DUAL LITE - #L22B-03L OR EQUAL	LED	120-277 1.3	10 WATT CAPACITY LED LAMPS, LOW-VOLTAGE BATTERY DISCONNECT, WALL MOUNTING TYPE, LEAD-CALCIUM BATTERY TYPE, NFPA 70 AND NFPA 101 RATINGS, BLACK THERMOPLASTIC HOUSING.
X	DUAL LITE - #LECS6XNE OR EQUAL	LED	120-277 3.6	CEILING MOUNT, EDGE-LIT LED EXIT SIGN, SATIN ALUMINUM HOUSING, SINGLE FACE AS INDICATED ON PLANS, INJECTION-MOLDED ACRYLIC EXIT PLAQUE, CLEAR, GREEN LETTERING, EMERGENCY BATTERY.

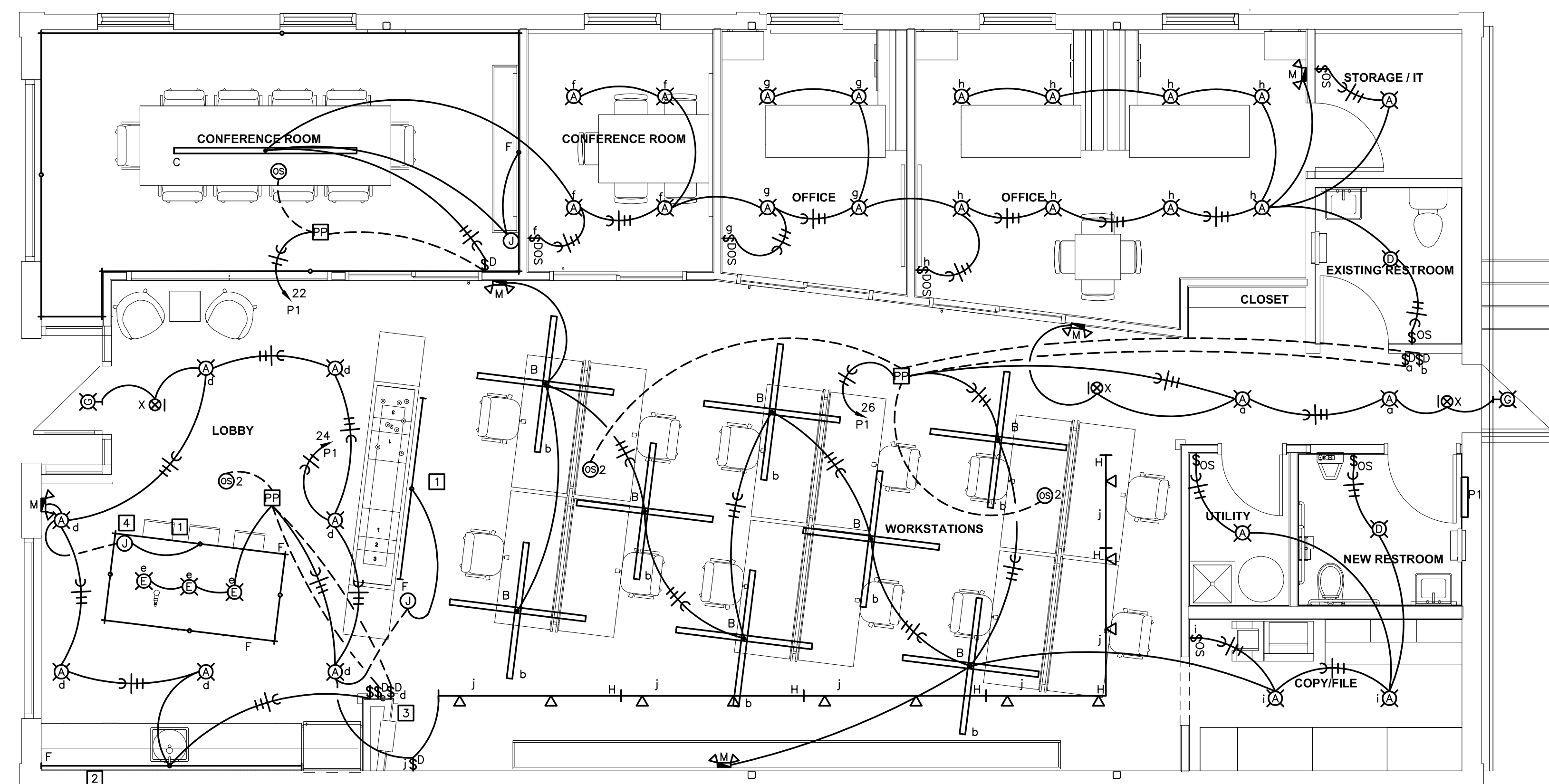
- LIGHT FIXTURE SCHEDULE NOTES:**
- VERIFY CEILING CONDITIONS AND COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS PRIOR TO ORDERING. PROVIDE ALL NECESSARY HARDWARE, TRIM, AND CABLES.
 - VERIFY QUANTITIES, MODEL NUMBERS AND DESCRIPTIONS WITH MANUFACTURER PRIOR TO ORDERING.
 - VERIFY FINISH AND COLOR WITH ARCHITECT PRIOR TO PLACING ORDER.
 - REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND ADDITIONAL MOUNTING INFORMATION. CONTACT ARCHITECT IMMEDIATELY IF THERE ARE DISCREPANCIES BETWEEN THE ARCHITECTURAL AND ELECTRICAL LIGHTING PLANS.
 - INSTALL ALL REQUIRED 0-10V DIMMING WIRE FOR LIGHT FIXTURES CONTROLLED BY 0-10V DIMMERS OR DIMMING ROOM CONTROLLERS.
 - FOR ALL FIXTURES REPRESENTED WITH THE EMERGENCY LIGHT FIXTURE SYMBOL (HALF-HATCHED) OR LABELED "EM" PROVIDE AN INTEGRAL EMERGENCY BATTERY PACK AND CONNECT IT TO AN UNSWITCHED HOT CONDUCTOR. BATTERY SHALL PROVIDE A MINIMUM OF 1000 LUMENS.
 - CONNECT EMERGENCY EXIT SIGNS TO UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT SERVING NEARBY LIGHT FIXTURES.

ELECTRICAL GENERAL NOTES

(SEE SHEET E000 FOR ELECTRICAL GENERAL NOTES)

LIGHTING PLAN NOTES

- COORDINATE WITH ARCHITECT ON INSTALLATION.
- UNDERCOUNTER TAPE LIGHTS TO BE PLACED AT UPPER CABINETS AND EACH SHELF.
- MOUNT DMX DRIVER CONTROL RECESSED IN WALL AND ROUTE CONDUIT UNDERGROUND AND OVERHEAD IN CONDUIT WHERE REQUIRED FOR ALL "F" TYPE FIXTURES.
- INSTALL DRIVER IN AN ENCLOSURE ON THE UNDERSIDE OF THE COUNTER, COORDINATE WITH ARCHITECT ON EXACT INSTALLATION, PAINT TO MATCH ARCHITECTURAL FINISHES, ROUTE CONDUIT CONCEALED THROUGH THE WALL, TRENCH THE CONDUIT THROUGH THE FLOOR.



LIGHTING PLAN
1/4"=1'-0"



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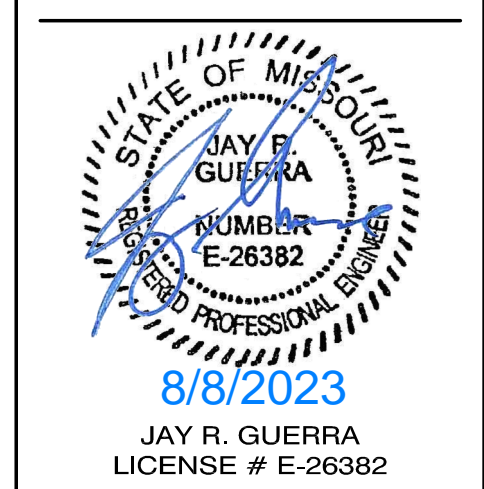
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PROFESSIONAL SEAL

LIGHTING PLAN

E201
ISSUE DATE: JULY 14, 2023
COLLINS WEBB #: 23033