

# MAIN STREET BUILDING IMPROVEMENTS

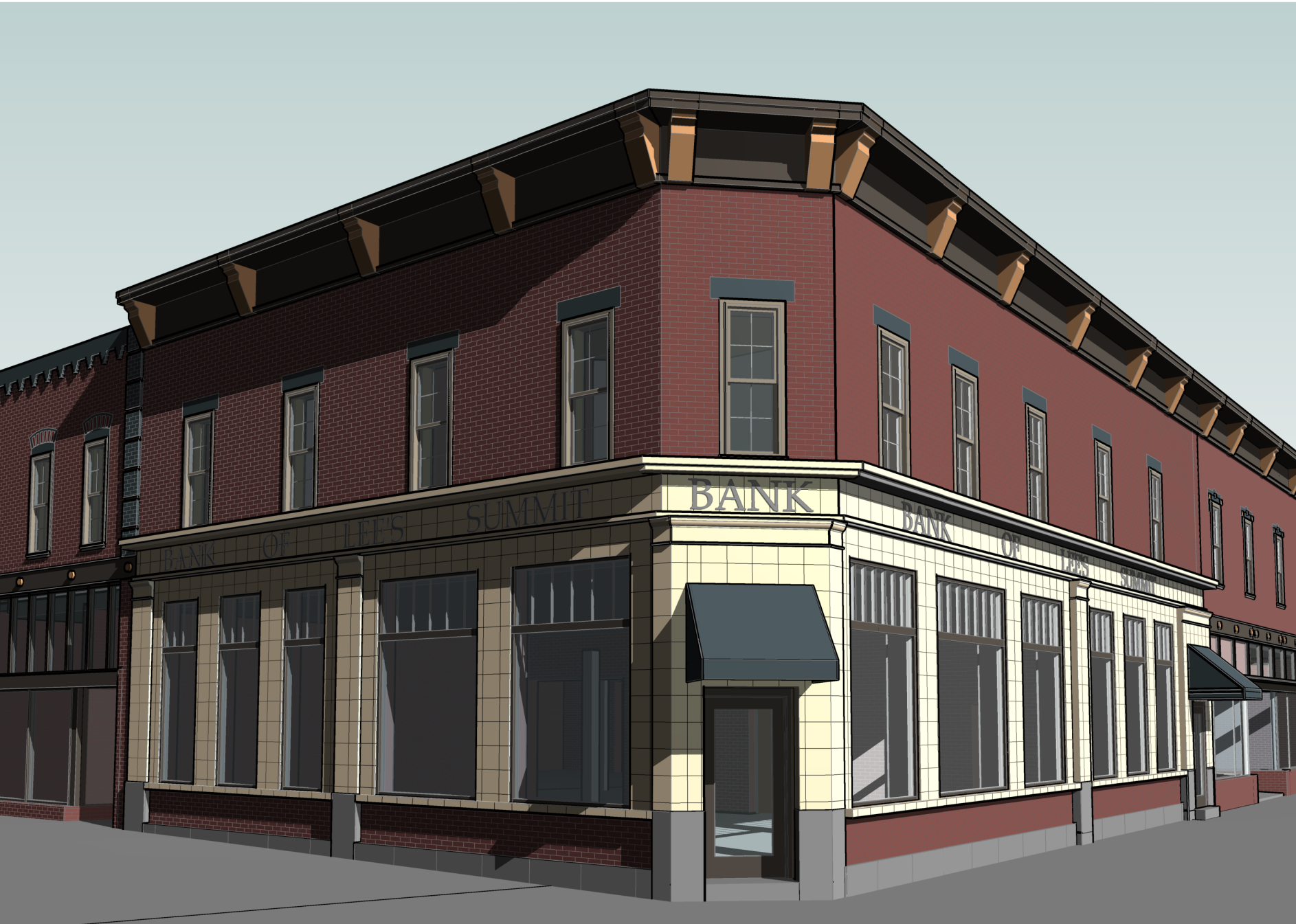
230 SW MAIN ST.  
LEE'S SUMMIT, MO 64063

## PERMIT DOCUMENTS

21 APRIL, 2022

COLLINS WEBB #: 21121

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### OWNER

DRAKE DEVELOPMENT LLC  
7200 W 132ND ST, SUITE 150,  
OVERLAND PARK, KS 66213  
P: 913.662.2630  
www.drakekc.com

### ARCHITECT

COLLINS WEBB ARCHITECTURE  
307B SW MARKET ST.  
LEE'S SUMMIT, MISSOURI 64063  
P: 816.249.2270  
www.collinsandwebb.com

### CIVIL ENGINEER

ENGINEERING SOLUTIONS  
50 SE 30TH ST,  
LEE'S SUMMIT, MO 64082  
P: 816.623.9888  
www.es-kc.com

### STRUCTURAL ENGINEER

LEIGH & O'KANE  
250 NE MULBERRY SUITE 201  
LEE'S SUMMIT, MO 64086  
P: 816.444.3144  
www.leok.com

### MEP ENGINEER

PKMR ENGINEERS  
13300 W 98TH ST  
LENEXA, KS 66215  
P: 913.492.2400  
www.pkmreng.com



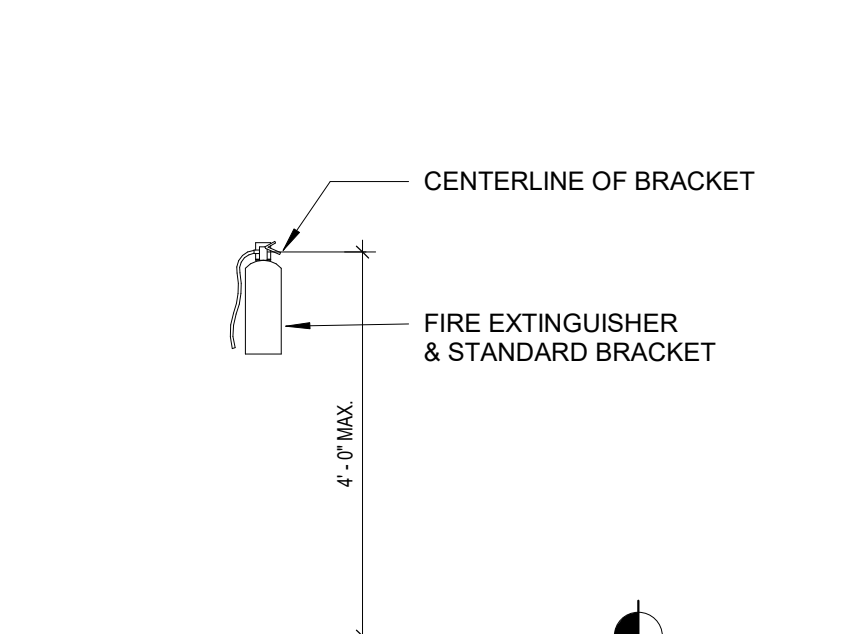




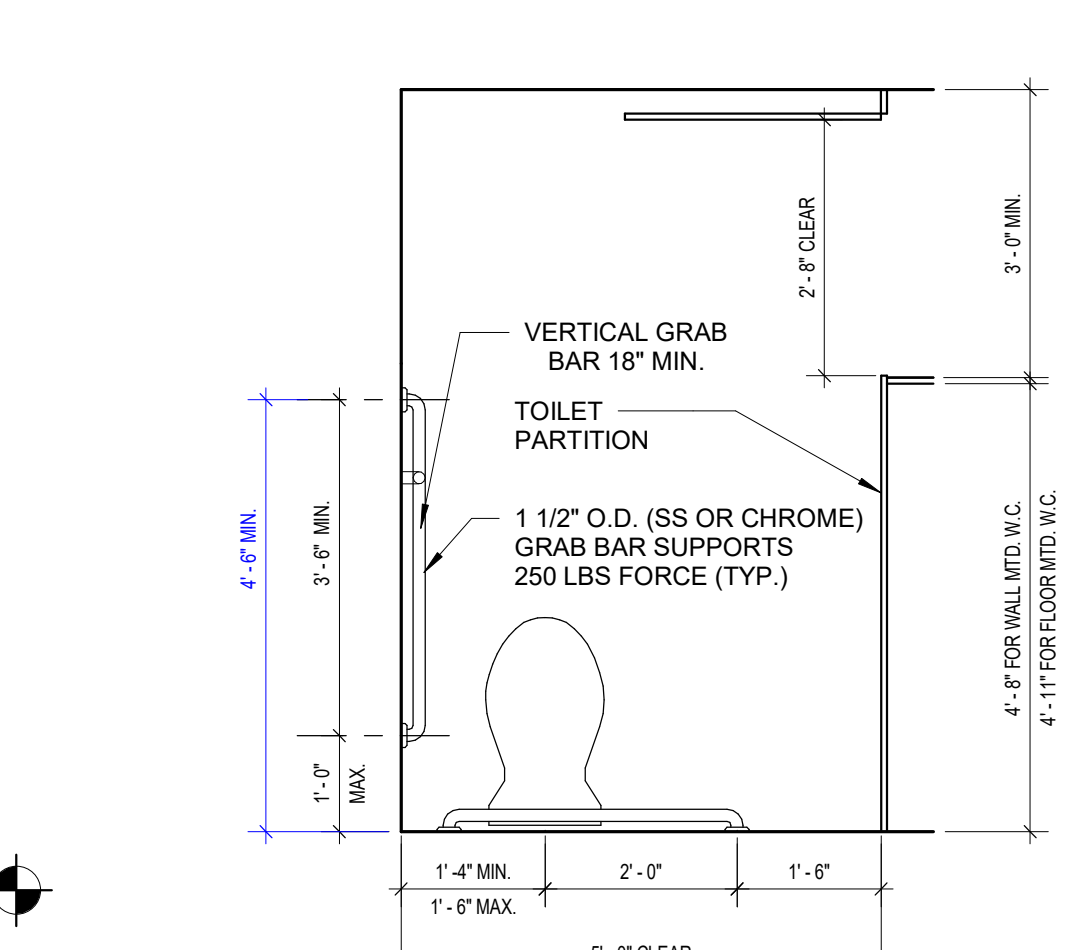
# GENERAL NOTES ACCESSIBILITY GUIDELINES:

- NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
- ADA UNOBSTRUCTED REACH RANGES: ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- ELEVATORS: STANDARD CALL BUTTONS: 36" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP.) & 48" MAX. (3/4" SMALLEST DIM.). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM.). TACTILE SIGNAL ON HOSTWAY: 60" 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 = 18" 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 & SPOUTS (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 CONTROL S = 44" MAX.
- LAVATORIES (TO SINK RIM/ COUNTERTOP): STANDARD = 38" 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 38" MAX. SHOWERS = 33" MIN. TO 38" MAX. FROM B.O. SHOWER, BATHTUBS: TOP BAR = 33" MIN. TO 38" MAX. BOT. BAR = 8" ABOVE T.O. TUB.
- SHOWER HEADS (FROM FLOOR TO HEAD): STANDARD = 72" TO 84" ADA = SPRAY UNIT W/ HOSE 60" 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. & 60" 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 UNOBSTRUCTED 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.
- SHelves: ADA = 48" MAX.
- COAT HOOKS: STANDARD = 68" ADA = 48" MAX.
- CHALKBOARDS & MARKERBOARDS: STANDARD = 32" TO 36" (TO B.O. BOARD OR CHALKTRAY). STANDARD = 80" (RECOMMENDED TO T.O. BOARD).
- THERMOSTATS & CONTROL DEVICES (TO TOP): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX.
- CONVENIENCE RECEPTACLES - ELECTRICAL/ TELEPHONE/ DATA (TO C.L.): STANDARD = 18" ADA = 15" MIN.
- 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 = 60" 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.
- SMOKE AND/OR HEAT DETECTORS: STANDARD = CEILING HEIGHT.
- HORN/ SPEAKER VISUAL SIGNALS: STANDARD = 80" AFF. OR BELOW CEILING - WHICHEVER IS LOWER.
- ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH AFF. & WITHIN 18" OF LATCH SIDE OF DOOR.

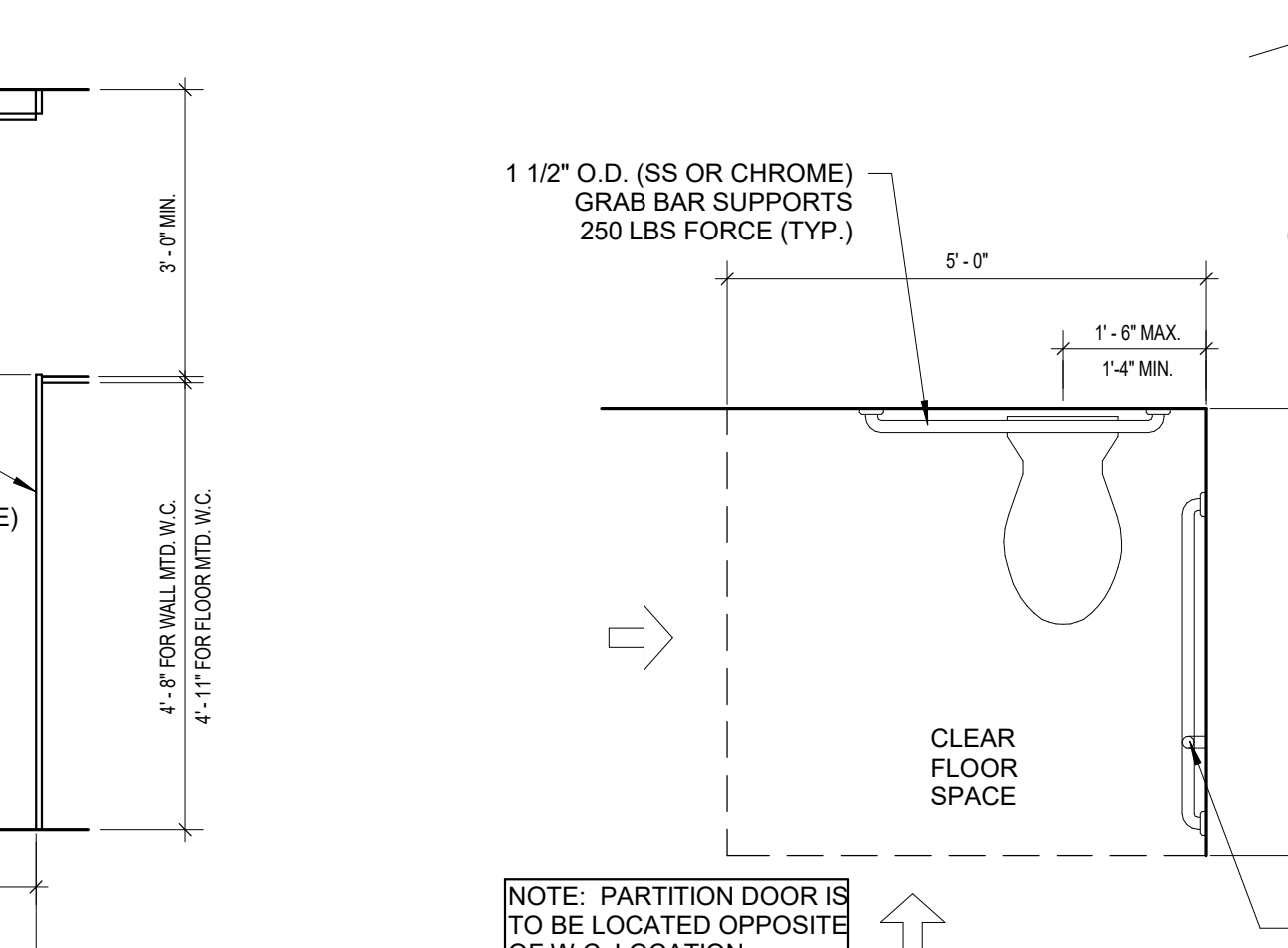
J10 FE CABINET  
1/2" = 1'-0"



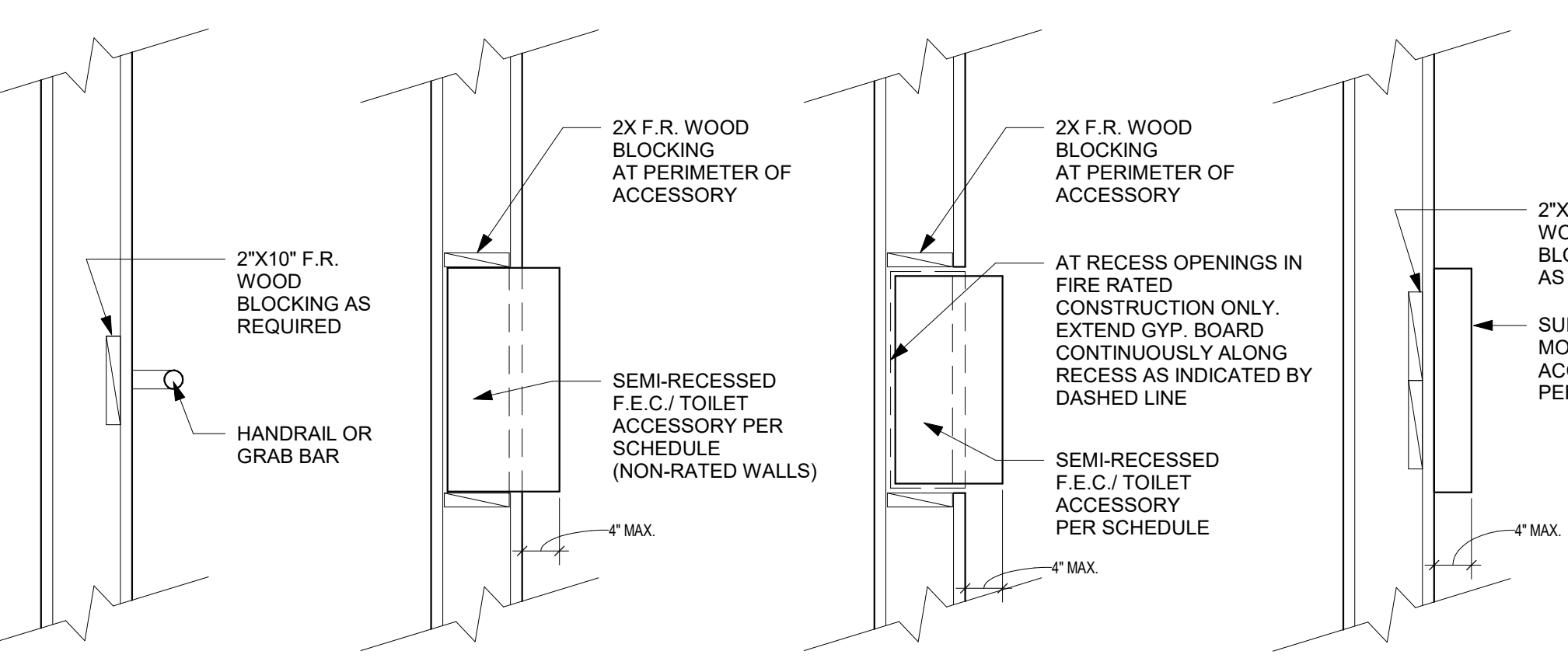
G10 FIRE EXTINGUISHER  
1/2" = 1'-0"



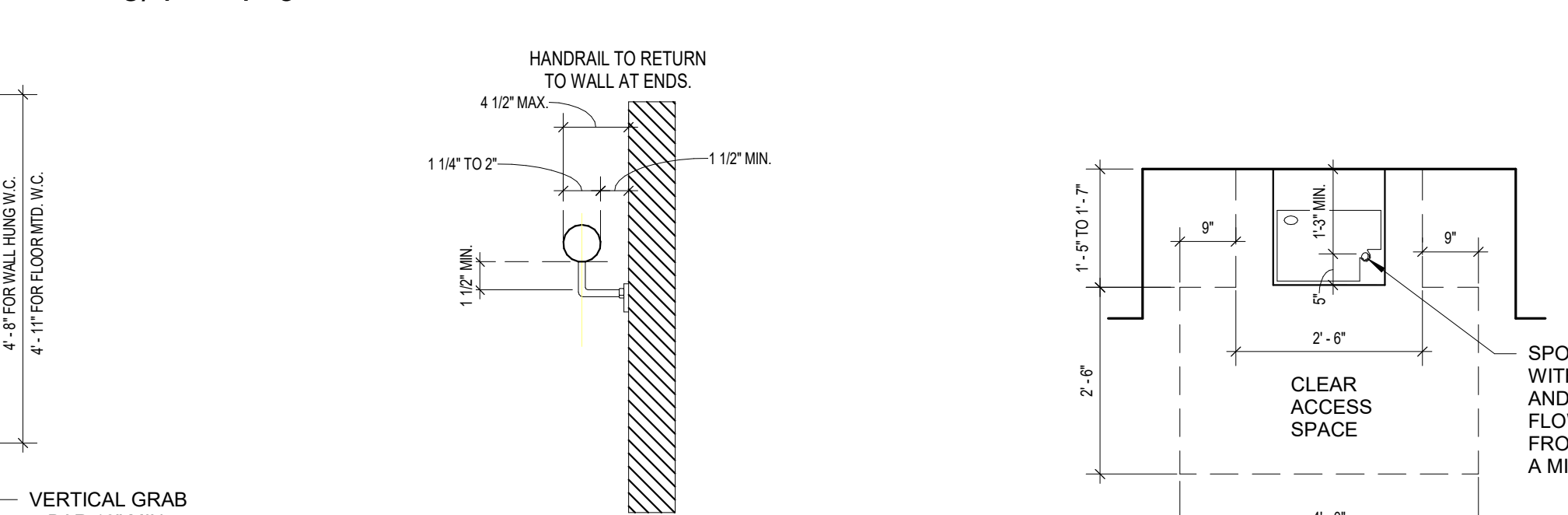
G9 HANDRAIL @ STAIRS AND RAMPS  
3/4" = 1'-0"



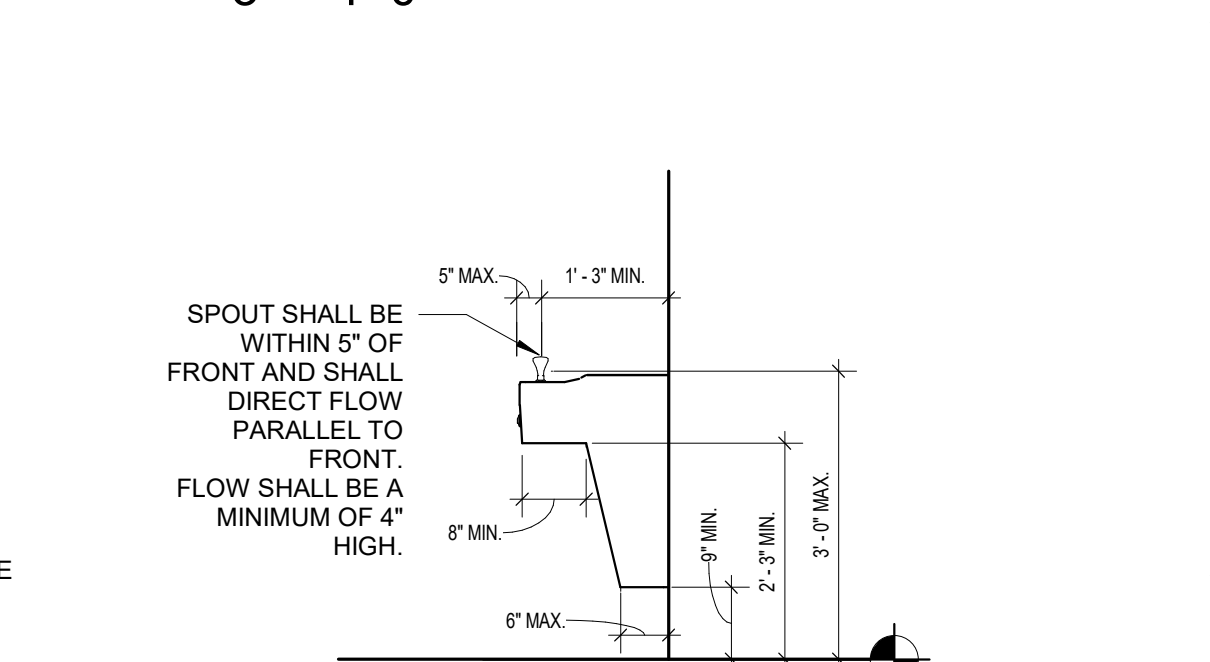
J7 TYP. DOOR APPROACH CLEARANCES  
1/2" = 1'-0"



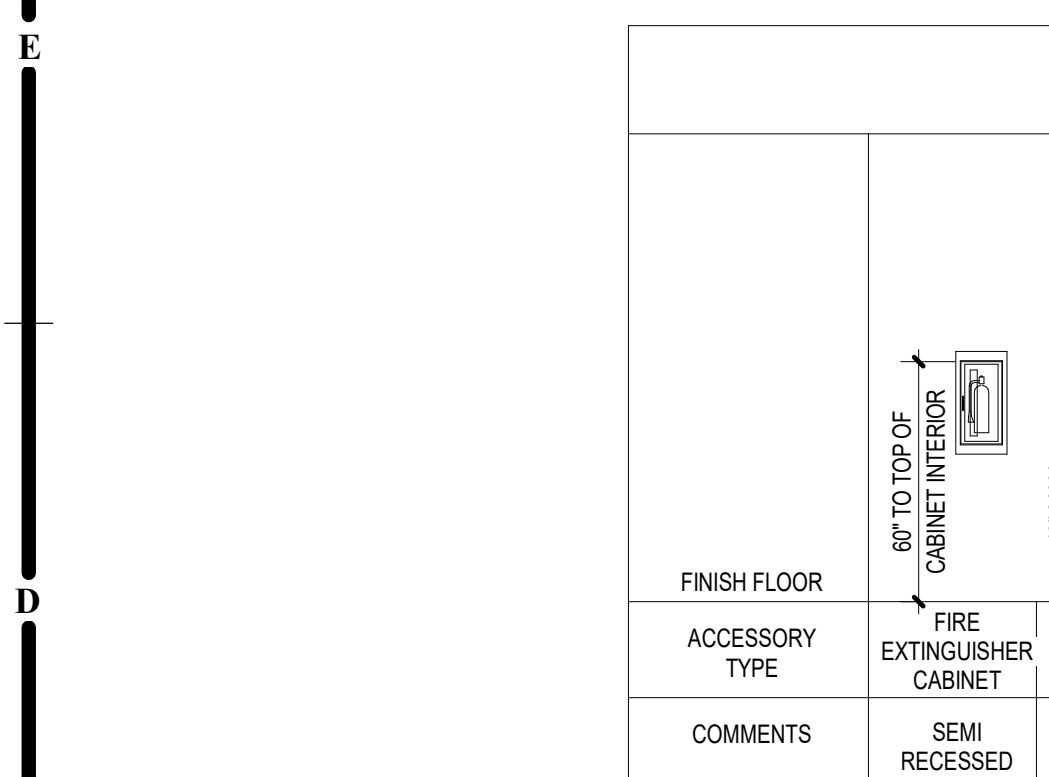
G7 TYPICAL BLOCKING DETAILS  
3/4" = 1'-0"



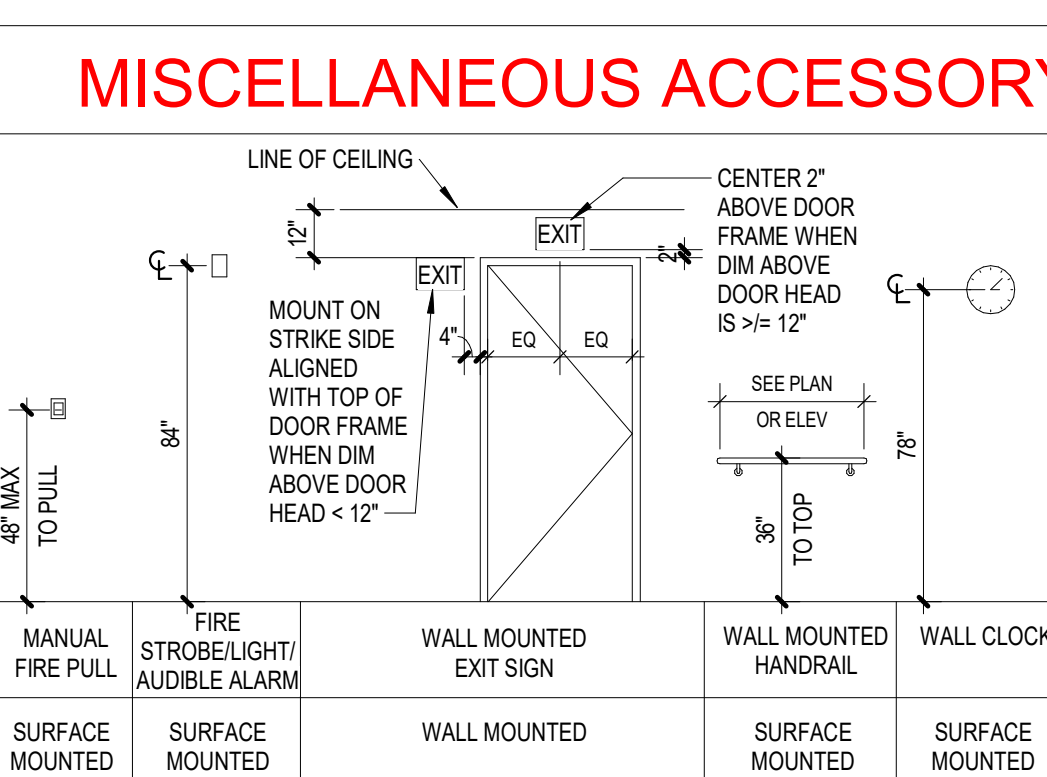
G2 BLOCKING SECTION  
3" = 1'-0"



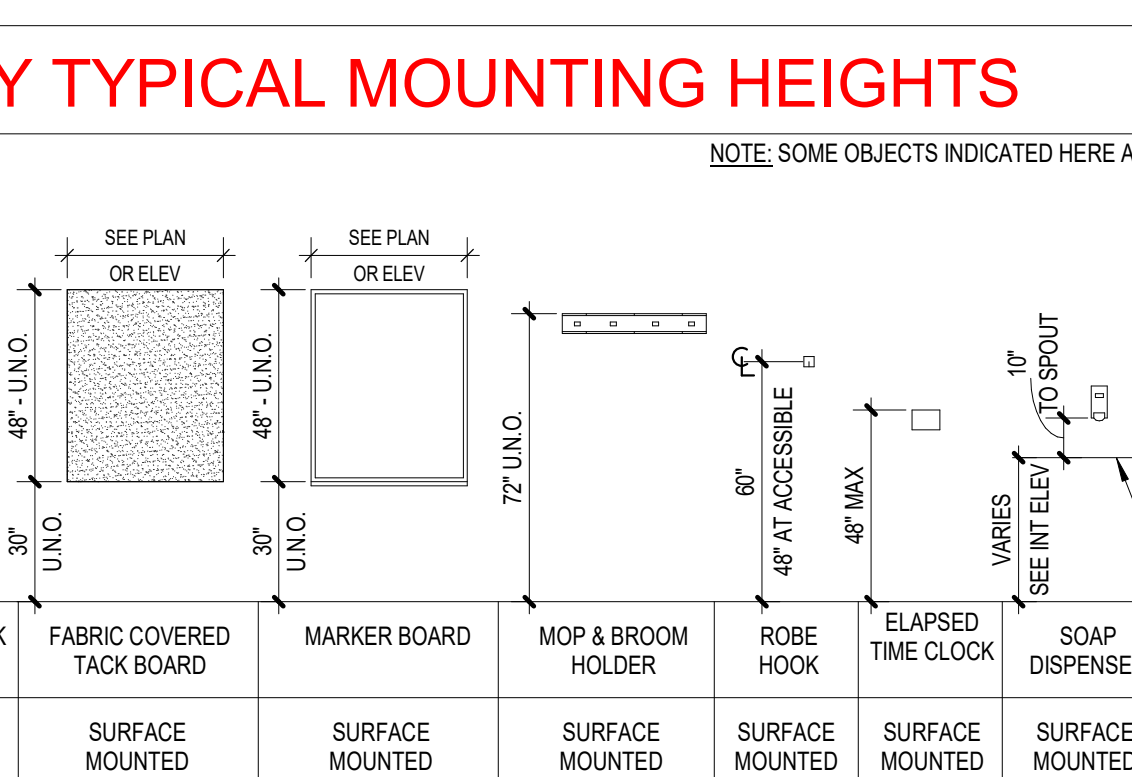
E12 SINK IN COUNTER CLEARANCES  
1/2" = 1'-0"



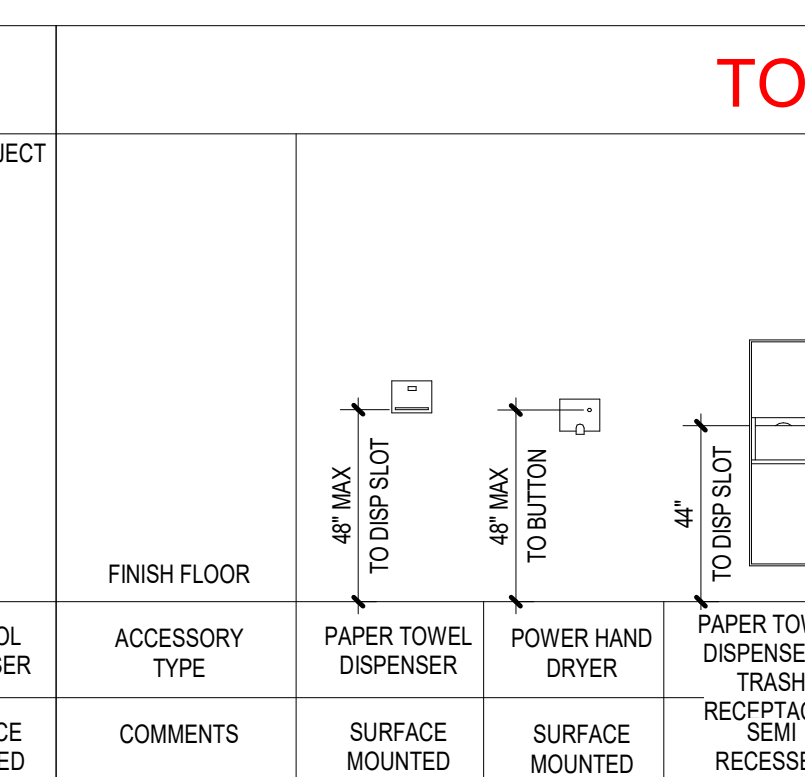
E10 ACCESSIBLE TOILET STALL  
1/2" = 1'-0"



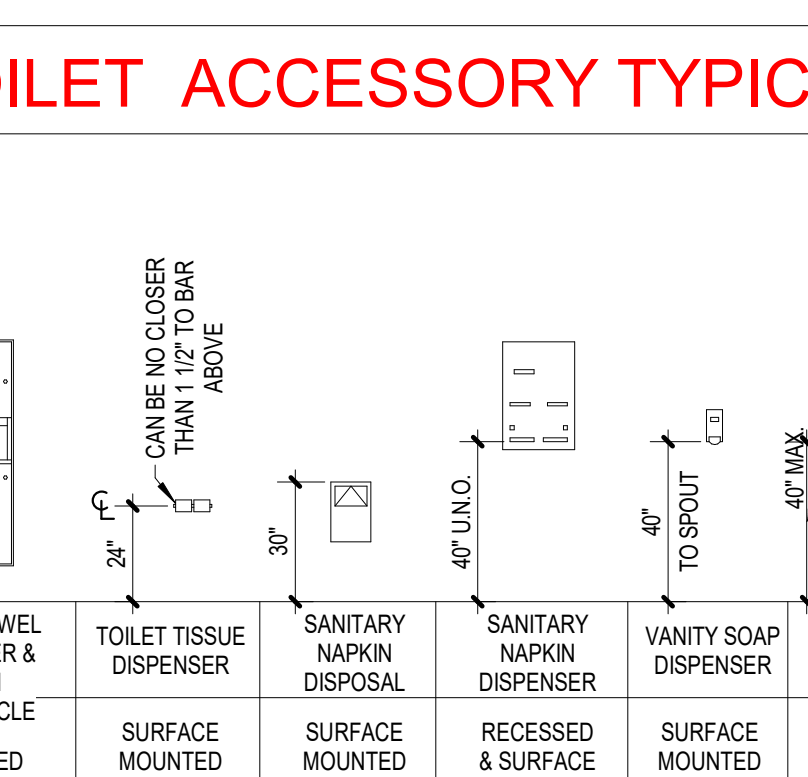
E8 ACCESSIBLE CLEAR FLOOR SPACE  
1/2" = 1'-0"



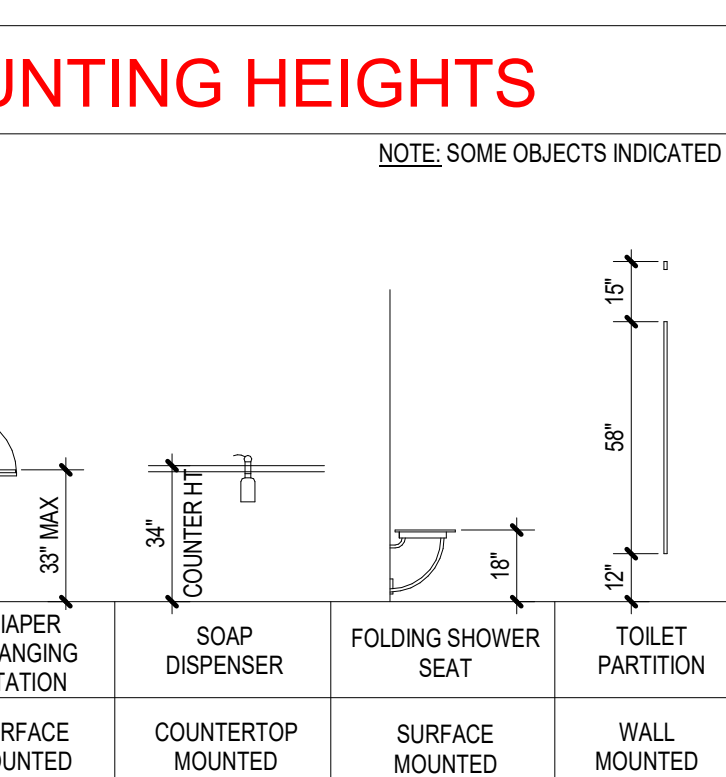
E6 HANDRAIL CLEARANCES  
1 1/2" = 1'-0"



E4 E.W.C. - CLEAR SPACE  
1/2" = 1'-0"



E2 E.W.C. - SECTION  
1/2" = 1'-0"



## MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT									
FINISH FLOOR	ACCESSORY TYPE	60" TO TOP OF CABINET INTERIOR	48" MAX. TO PULL	84"	12"	48" U.N.O.	48" U.N.O.	12" U.N.O.	60"
ACCESSORY TYPE	FIRE EXTINGUISHER CABINET	MANUAL FIRE PULL	FIRE STROBE/LIGHT/ AUDIBLE ALARM	WALL MOUNTED EXIT SIGN	WALL MOUNTED HANDRAIL	WALL CLOCK	FABRIC COVERED TACK BOARD	MARKER BOARD	MOP & BROOM HOLDER
COMMENTS	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

## MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT									
FINISH FLOOR	ACCESSORY TYPE	60"	48" MAX.	48"	48" MAX.	48" MAX.	48" MAX.	48" MAX.	48" MAX.
ACCESSORY TYPE	CLOSET HANGAR ROD & SHELF	WALL PHONE	TELEPHONE HOUSING	CUP DISPENSER	WALL SWITCH	TELEPHONE OUTLET	RECEPTACLE/ TELEPHONE/ DATA	RECEPTACLE/ TELEPHONE/ DATA	SPECIALTY EQUIP (IE THERMOSTAT CARD READER, INTERCOM)
COMMENTS	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

## TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT									
FINISH FLOOR	ACCESSORY TYPE	48" MAX. TO DISP. SLOT	48" MAX. TO BUTTON	44"	48" U.N.O.	48"	48" U.N.O.	48"	48"
ACCESSORY TYPE	PAPER TOWEL DISPENSER	POWER HAND DRYER	PAPER TOWEL DISPENSER & TRASH	TOILET TISSUE DISPENSER	SANITARY NAPKIN DISPOSAL	SANITARY NAPKIN DISPENSER	VANITY SOAP DISPENSER	FRAMED VANITY MIRROR	DIAPER CHANGING STATION
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	RECESSED & SURFACE	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

## PLUMBING FIXTURE TYPICAL MOUNTING HEIGHTS

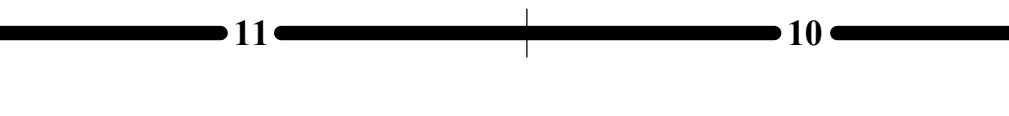
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT									
FINISH FLOOR	ACCESSORY TYPE	40" U.N.O.	78" U.N.O.	78" U.N.O.	34"	34"	30" MAX. TO SPOUT	38"	38" MAX. TO SPOUT
ACCESSORY TYPE	SHOWER MIXING VALVE	SHOWER HEAD	HAND HELD SHOWER	LAVATORY	LAVATORY	CHILDREN'S DRINKING FOUNTAIN	SINGLE DRINKING FOUNTAIN	DOUBLE DRINKING FOUNTAIN	TOILET
COMMENTS	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	COUNTER MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL/FLOOR MOUNTED

## GRAB BAR TYPICAL MOUNTING HEIGHTS & TOILET ACCESSORY PLANS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT				
FINISH FLOOR	ACCESSORY TYPE	ADA TOILET GRAB BAR	SHOWER STALL GRAB BAR	ROLL-IN SHOWER STALL GRAB BAR
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

ACCESSORY TYPE	TYPICAL ACCESSORIES AT ACCESSIBLE TOILET	TYPICAL ADA SINK ENCLOSURE PANEL CLEARANCE
COMMENTS	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY	

A11 TYPICAL MOUNTING HEIGHTS  
1/4" = 1'-0"

















UL Product iQ™

BXUV.L511 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design Criteria and Allowable Variances

Design No. L511

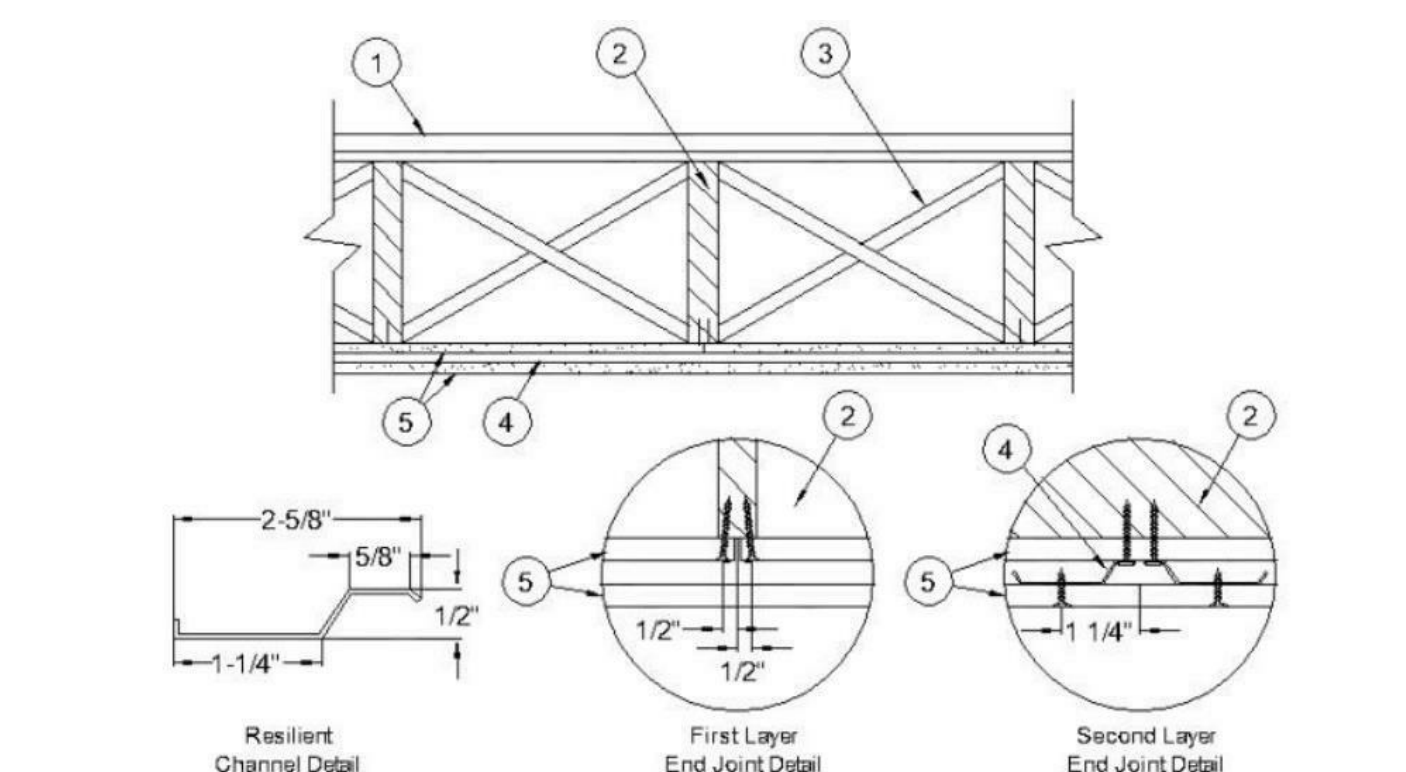
February 14, 2022

Unrestrained Assembly Rating - 2 Hr.

Finish Rating - 71 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used - See Guide BXUV or BXUV7.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Flooring Systems** - The flooring system shall consist of one of the following:

**Subflooring** - Min 1 by 6 in. T & G lumber fastened diagonally to joists.

**Vapor Barrier** - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring** - Min 1 by 3 in. T & G and end matched, laid perpendicular to joists.

**System No. 2**

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial asphalt saturated felt.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

**UNITED STATES GYPSUM CO** - Types LRL, HSLR, CSD

**USG MEXICO S A DE CV** - Types LRL, HSLR, CSD

**Floor Mat Materials** - (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

**UNITED STATES GYPSUM CO** - Types SAM, LEVERLOCK® Brand Sound Reduction Board, LEVERLOCK® Brand Floor Underlayment SRM-25

**Alternate Floor Mat Materials** - (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture**.

**GRASSWORK L L C** - Type SC50

System No. 3

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring** - Min 15/32 in. wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 4

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring - Floor Topping Mixture** - Min 1-1/2 in. thickness of floor topping mixture having a minimum compressive strength of 1000 psi and a cast density of 105 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1-1/4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

**ELASTIZELL CORP OF AMERICA** - Type FF

System No. 5

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

**Floor Mat Materials** - (Optional) - Floor mat material Nom 5/64 in. (2mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. of floor-topping mixture.

**HACKER INDUSTRIES INC** - Type Hacker Sound-Mat.

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom 3/8 in. (6mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32mm) of floor-topping mixture.

**HACKER INDUSTRIES INC** - Type Hacker Sound-Mat II.

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

**HACKER INDUSTRIES INC** - FRM-RLL SCM 125

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

**HACKER INDUSTRIES INC** - Type FRM-RLL SCM 250, Quiet Quil 55/025

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

**HACKER INDUSTRIES INC** - FRM-RLL SCM 400, Quiet Quil 60/040

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)

**HACKER INDUSTRIES INC** - Type FRM-RLL SCM 750, Quiet Quil 65/075

**Metal Lath** - (Optional) - For use with 3/8 in. (10mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3/4 lbs/cy of placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness is a min 1-1/4 in. over the floor mat.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 in. in. thickness of floor topping mixture for min 19/32 in. min 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

**HACKER INDUSTRIES INC** - Firm-FH Gypsum Concrete, Firm-FH 2010, Firm-FH 4010, Firm-FH High Strength, Gyp-Span Radiant, Firm-FH 3310

System No. 6

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Retarder** - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

System No. 7

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Retarder** - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 or 1 in. thickness of floor topping mixture for min 19/32 or min 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

**ULTRA QUIET FLOORS** - Types UQF-A, UQF-Super Blend, UQF-PH 200

System No. 8

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

**MAXXON CORP** - Type Maxxon Standard and Maxxon High Strength

**Floor Mat Materials** - (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

**MAXXON CORP** - Type Encased and Sound Mat

**Floor Mat Reinforcement** - (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

**Metal Lath** - (Optional) - 3/8 in. expanded galvanized steel diamond mesh, 3/4 lbs/cy of loose laid over the floor mat material.

**Fiber Glass Reinforcement** - (Optional, Not Shown) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs/cy of loose laid over the floor mat material.

System No. 9

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade C-D or Sheathing. Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

**FORMULATED MATERIALS LLC** - Types FR-25, FR-30, and SiteMix

System No. 10

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Finish Floor - Mineral and Fiber Board** - Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

**HOMASOTE CO** - Type 440-32 Mineral and Fiber Board

System No. 11

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

**Finish Flooring - Floor Topping Mixture** - Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 105 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, and 300 lbs of sand with 5.5 gal of water.

**AERIX INDUSTRIES** - Floor Topping Mixture

System No. 12

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

**ARCOSA SPECIALTY MATERIALS** - Types NexGen, Green, Prime and PreFloor, AccuAdhant®, AccuLevel® Types G40, G50 and S300

**Alternate Floor Mat Materials** - (Optional) - Floor mat material nominal 2 x 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively.

**ARCOSA SPECIALTY MATERIALS** - AccuQuat® Types D13, D-18, D25, DX38, EM 125, EM 125S, EM 250, EM 250S, EM 375, EM 375S, EM 750, and EM 750S.

System No. 13

**Subflooring** - 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

System No. 14

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring** - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor and Roof-Topping Mixtures (CCOI) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mats.

**Floor Mat Materials** - (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

**KEENE BUILDING PRODUCTS CO INC** - Type Quiet Quil 55/025 and Quiet Quil 60/040 N

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

**KEENE BUILDING PRODUCTS CO INC** - Type Quiet Quil 60/040 and Quiet Quil 60/040 N

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

**KEENE BUILDING PRODUCTS CO INC** - Type Quiet Quil 65/075, Quiet Quil 65/075 N

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

**KEENE BUILDING PRODUCTS CO INC** - Type Quiet Quil 52/013 and Quiet Quil 50/013 N

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

**KEENE BUILDING PRODUCTS CO INC** - Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 15

**Subflooring** - Min 1 by 6 in. T & G lumber fastened diagonally to joists.

**Vapor Barrier** - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

**ARCOSA SPECIALTY MATERIALS** - AccuCrete® Types NexGen, Green, Prime and PreFloor, AccuAdhant®, AccuLevel® Types G40, G50 and S300

**Floor Mat Materials** - (Optional) - Floor mat material nominal 2 x 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

**ARCOSA SPECIALTY MATERIALS** - AccuQuat® Types D13, D-18, D25, DX38, EM 125, EM 125S, EM 250, EM 250S, EM 375, EM 375S, EM 750, and EM 750S

System No. 16

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring - Floor Topping Mixture** - Min 3/4 floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

**DEFENDABLE LLC** - GSI, M3A, GSI, K2A, GSI-CSD and GSI, RH

**Floor Mat Materials** - (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

**KEENE BUILDING PRODUCTS CO INC** - Type Quiet Quil 55/025 and Quiet Quil 55/025 N

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

**KEENE BUILDING PRODUCTS CO INC** - Type Quiet Quil 60/040 and Quiet Quil 60/040 N

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

**KEENE BUILDING PRODUCTS CO INC** - Type Quiet Quil 65/075, Quiet Quil 65/075 N

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

**KEENE BUILDING PRODUCTS CO INC** - Type Quiet Quil 52/013 and Quiet Quil 50/013 N

**Alternate Floor Mat Materials** - (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

**KEENE BUILDING PRODUCTS CO INC** - Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 17

**Subflooring** - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

**Vapor Barrier** - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

**Vapor Barrier** - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring** - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor and Roof-Topping Mixtures (CCOI) category for names of Classified Companies.

**Floor Mat Materials** - (Optional) - Nom 3/32 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

**PLITEQ INC** - Type GenieMat RS302

**Floor Mat Materials** - (Optional) - Nom 3/16 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

**PLITEQ INC** - Type GenieMat FR20NP

**Floor Mat Materials** - (Optional) - Nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

**PLITEQ INC** - Type GenieMat FR06

**Floor Mat Materials** - (Optional) - Nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

**PLITEQ INC** - Type GenieMat FF10

**Floor Mat Materials** - (Optional) - Nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

**PLITEQ INC** - Type GenieMat FF17

**Floor Mat Materials** - (Optional) - Nom 1 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

**PLITEQ INC** - Type GenieMat FF25

System No. 18

**Subflooring - Structural Cement-Fiber Units** - Nominal 19 mm (3/4 in.) thick tongue and groove structural cement-fiber units. Long dimension of panels to be perpendicular to joists with end joints staggered. Panels fastened to the joists with #10 self-drilling, self-tapping cement board screws 1-1/4 in. long. Screws shall be spaced 6 in. OC along the perimeter of each sheet and 12 in. OC in the field of each sheet. Screws shall be spaced 1/2 in. from end joints and 1 in. from side joints.

**ECTEK INTERNATIONAL INC** - Armoform Panel

**Subflooring (Alternate) - Building Units** - Nom 3/4 in. thick, tongue and groove boards. Long dimension of boards to be perpendicular to joists with end joints staggered a min of 4 ft. and centered over end joints. Boards secured to joists with 1-1/4 in. long self-drilling, self-tapping screws or 2 in. x 0.113 in. long Shank nails spaced a max of 12 in. OC in the field with screws/nails located 1 in. from long edge, and max 8 in. OC along the end joints with screws/nails located 1/2 in. from end joint.

**ECTEK INTERNATIONAL INC** - Type Megaboard

**Vapor Barrier** - Nom 0.010 in. thick commercial resin-sized building paper.

**Finish Flooring** - Min 1 by 3 in. T & G and end matched.

System No. 19

**Structural Cement-Fiber Units** - For use with **UNITED STATES GYPSUM CO** gypsum boards only. Nom 3/4 in. thick, with long edges tongue and groove. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, Nom 8, self-countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.









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(www.collinswebb.com)

# MAIN STREET BUILDING IMPROVEMENTS

230 SW MAIN ST.  
LEE'S SUMMIT, MO 64063

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## GENERAL PROJECT SPECIFICATIONS

### SPECIFICATIONS - PRODUCT & INSTALLATION GENERAL REQUIREMENTS

#### 07 5423 - EPDM MEMBRANE ROOFING & ACCESSORIES

- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS. INDICATE JOINT OR TERMINATION DETAIL CONDITIONS, CONDITIONS OF INTERFACE WITH OTHER MATERIALS AND PAVES OR WALKWAY PAD LAYOUT.
1. MANUFACTURER'S FIELD REPORTS: INDICATE PROCEDURES FOLLOWED, AMBIENT TEMPERATURES, HUMIDITY, WIND VELOCITY DURING APPLICATION, AND SUPPLEMENTARY INSTRUCTIONS GIVEN SUBMIT FINAL MANUFACTURER'S PUNCH LIST FIELD REPORT WHEN COMPLETE SYSTEM IS INSTALLED.
2. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE MEMBRANE SEAMING PRECAUTIONS AND PERMITTER CONDITIONS REQUIRING SPECIAL ATTENTION.

#### B. WARRANTY:

1. MATERIAL WARRANTY: PROVIDE MEMBRANE MANUFACTURER'S WARRANTY AGREEING TO REPLACE MATERIAL THAT SHOWS MANUFACTURE DEFECTS WITHIN 10 YEARS AFTER INSTALLATION.
2. SYSTEM WARRANTY: PROVIDE MANUFACTURER'S SYSTEM WARRANTY AGREEING TO REPAIR OR REPLACE ROOFING THAT LEAKS OR IS DAMAGED DUE TO WIND OR OTHER NATURAL CAUSES. WARRANTY TERM: 20 YEARS.
- A. FOR REPAIR AND REPLACEMENT ALLOWED COSTS OF BOTH MATERIAL AND LABOR IN WARRANTY.
- B. INCLUDE ADJACENT PUNCTURES ACCORDING TO THE MANUFACTURER'S STANDARD WARRANTY TERMS.
- C. INCLUDE HAIL DAMAGE ACCORDING TO THE MANUFACTURER'S STANDARD WARRANTY TERMS.
- D. EXCEPTIONS NOT PERMITTED: DAMAGE DUE TO ROOF TRAFFIC, DAMAGE DUE TO WIND OF SPEED GREATER THAN 56 MPH BUT LESS THAN 90 MPH.

#### C. BASIS OF DESIGN: FIRESTONE RUBBERGARD® EPDM MEMBRANE - WWW.FIRESTONEBPO.COM

1. WIND UPLIFT DESIGNED TO WITHSTAND WIND UPLIFT FORCES CALCULATED WITH ASCE 7.
2. INSULATION THERMAL RESISTANCE (R-VALUE): 3 PER INCH, MINIMUM, PROVIDE INSULATION OF THICKNESS REQUIRED, MINIMUM R-20.

#### D. ROOFING MEMBRANE MATERIALS:

1. MATERIAL: RUBBERGARD EPDM
- A. B. THICKNESS: 60 MILS (0.060 INCH), MINIMUM.
- B. C. SHEET WIDTH: FACTORY FABRICATED INTO LARGEST SHEETS POSSIBLE.
- C. D. PRODUCT: FULLY ADHERED.
2. SEAMING MATERIALS: AS RECOMMENDED BY MEMBRANE MANUFACTURER.
3. VAPOR RETARDER: MATERIAL APPROVED BY ROOF MANUFACTURER COMPLYING WITH REQUIREMENTS OF FIRE RATING CLASSIFICATION COMPATIBLE WITH ROOFING AND INSULATION MATERIALS. INSTALL WITH FIRE-RETARDANT ADHESIVE.
4. FLEXIBLE FLASHING MATERIAL: SAME MATERIAL AS MEMBRANE.
5. BASE FLASHING: PROVIDE WATERPROOF, FULLY ADHERED BASE FLASHING SYSTEM AT ALL PENETRATIONS, PLANE TRANSITIONS, AND TERMINATIONS.

#### E. DECK SHEETING AND COVER BOARDS:

- IF SHEETING OR COVER BOARD IS REFERENCED IN THE DRAWINGS, PROVIDE PRODUCTS COMPLYING WITH BELOW REQUIREMENTS.
1. DECK SHEETING: 1/2" PSRUM SHEETING, ASTM C1395C1399M, TYPE V SPECIAL FIRE RESISTANT TYPE.
2. COVERBOARD: CEMENT ROOF BOARD, COMPLYING WITH ASTM C1325.

#### F. INSULATION:

1. INSULATION COMPLYING WITH MANUFACTURER'S RECOMMENDATIONS.
2. CELLULOSE FIBER BOARD INSULATION: ASTM C208, TYPE II, NATURAL FINISH.
3. EXPANDED POLYSTYRENE (EPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH DRAINAGE CHANNELS ON ONE FACE.
4. TAPERED BOARD: POLYSTYRENE (XPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH NATURAL SKIN SURFACE, DRAINAGE CHANNELS ON ONE FACE.
5. EXTRUDED POLYSTYRENE (XPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH NATURAL SKIN SURFACE, DRAINAGE CHANNELS ON ONE FACE.

#### G. ACCESSORIES:

1. PROVIDE AND INSTALL ONLY ACCESSORIES WHICH COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE FIRESTONE PREFINISHED FLASHINGS AND CORNERS FOR ITEMS NOTED IN DRAWING DETAILS.

#### H. INSTALLATION:

1. VERIFY THAT SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK.
2. INCHES DECK IS SUPPORTED AND SECURE.
3. VERIFY DECK IS CLEAN AND SMOOTH. FLAT, FREE OF DEBRIS, WAVES, OR PROJECTIONS, PROPERLY SLOPED AND SUITABLE FOR INSTALLATION OF ROOF SYSTEM.
4. VERIFY DECK SURFACES ARE DRY AND FREE OF RAIN, SNOW OR ICE.
5. VERIFY THAT ROOF OPENINGS, CURBS, AND PENETRATIONS THROUGH ROOF ARE SOLIDLY SET, AND CANT STRIPS ARE IN PLACE.
6. CLEAN SUBSTRATE THOROUGHLY PRIOR TO ROOF APPLICATION.
7. DO NOT BEGIN WORK UNTIL OTHER WORK THAT REQUIRES ROOF OR EQUIPMENT TRAFFIC ON ROOF IS COMPLETE.
8. APPLY MANUFACTURER'S RECOMMENDED VAPOR RETARDER OR TEMPORARY ROOF BEFORE ROOF INSTALLATION.
9. PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NRCA (RM) APPLICABLE REQUIREMENTS.
10. REMOVE WRAPPINGS, EMPTY CONTAINERS, PAPER, AND OTHER DEBRIS FROM THE ROOF DAILY. DISPOSE OF DEBRIS IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
11. REMOVE ITOMUNOUS MARKINGS FROM FINISHED SURFACES.
12. IN AREAS WHERE FINISHED SURFACES ARE SOLED BY WORK OF THIS SECTION, CONSULT MANUFACTURER OF SURFACES FOR CLEANING ADVICE AND CONFORM TO THEIR DOCUMENTED INSTRUCTIONS.
13. REPAIR OR REPLACE DEFACED OR DAMAGED FINISHES CAUSED BY WORK OF THIS SECTION.

#### I. PROTECTION:

1. PROTECT INSTALLED ROOFING AND FLASHINGS FROM CONSTRUCTION OPERATIONS.
2. WHERE TRAFFIC MUST CONTINUE OVER FINISHED ROOF MEMBRANE, PROTECT SURFACES USING DURABLE MATERIALS.

#### 07 6200 - SHEET METAL FLASHING AND TRIM

- A. STANDARDS:
- FABRICATED SHEET METAL ITEMS, INCLUDING FLASHINGS, COUNTERFLASHINGS, AND OTHER ITEMS INDICATED IN SCHEDULE.
- AAMA 811 - VOLUNTARY SPECIFICATION FOR ANODIZED ARCHITECTURAL ALUMINUM 2014 (2015 ERRATA).
- ASTM C920 - STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS 2016.
- CDA A4050 - COPPER IN ARCHITECTURE - HANDBOOK CURRENT EDITION.
- SMOACNA (ASMA) - ARCHITECTURAL SHEET METAL MANUAL 2012.

#### B. SUBMITTALS:

1. SHOP DRAWINGS: INDICATE MATERIAL PROFILE, JOINTING PATTERN, JOINTING DETAILS, FASTENING METHODS, FLASHINGS, TERMINATIONS, AND INSTALLATION DETAILS.
- C. QUALITY ASSURANCE:
1. PERFORM WORK IN ACCORDANCE WITH SMOACNA (ASMA) AND CDA A4050 REQUIREMENTS AND STANDARD DETAILS, EXCEPT AS OTHERWISE INDICATED.

#### D. DELIVERY, STORAGE, AND HANDLING:

1. STACK MATERIAL TO PREVENT TWISTING, BENDING, AND ABRASION, AND TO PREVENT VENTILATION. SLOPE METAL SHEETS TO ENSURE DRAINAGE.
2. PREVENT CONTACT WITH MATERIALS THAT COULD CAUSE DISCOLORATION OR STAINING.

#### E. PRODUCTS:

- PREFINISHED ALUMINUM: ASTM B209 (ASTM B209M), 20 GAUGE, (0.032 INCH) THICK, PLAIN FINISH SHOP PRE-COATED WITH MODIFIED SILICONE COATINGS.
1. FLUOROPOLYMER COATING: HIGH PERFORMANCE ORGANIC FINISH: AAMA 2604, MULTIPLE COAT, THERMALLY CURED FLUOROPOLYMER FINISH SYSTEM.
2. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

#### F. FABRICATION:

1. FORM SECTIONS TRUE TO SHAPE, ACCURATE IN SIZE, SQUARE, AND FREE FROM DISTORTION OR DEFECTS.
2. FORM PIECES IN LONGEST POSSIBLE LENGTHS.
3. HEN EXPOSED EDGES ON UNDERSIDE: 1/2" INCH MATERIAL AND SEAM CORNERS.
4. FORM MATERIAL WITH FLAT LOCK SEAMS, EXCEPT WHERE OTHERWISE INDICATED; AT MOVING JOINTS, USE SEALED LAPPED, BAYONET-TYPE OR INTERLOCKING HOOKED SEAMS.
5. FABRICATE FLASHINGS TO ALLOW TCE TO EXTEND 2 INCHES OVER ROOFING GRAVEL, RETURN AND BRAKE EDGES.

#### G. ACCESSORIES:

1. FASTENERS: GALVANIZED STEEL, WITH SOFT NEOPRENE WASHERS.
2. PRIMER: ZINC CHROMATE TYPE.
3. CONCEALED SEALANTS: NON-CURING BUTYL SEALANT.
4. EXPOSED SEALANTS: ASTM C920, ELASTOMERIC SEALANT, WITH MINIMUM MOVEMENT CAPABILITY AS RECOMMENDED BY MANUFACTURER FOR SUBSTRATES TO BE SEALED; COLOR TO MATCH ADJACENT MATERIAL.

#### H. INSTALLATION:

1. SECURE FLASHINGS IN PLACE USING CONCEALED FASTENERS, AND USE EXPOSED FASTENERS ONLY WHERE PERMITTED.
2. APPLY PLASTIC CEMENT COMPOUND BETWEEN METAL FLASHINGS AND FELT FLASHINGS.
3. FIT FLASHINGS TIGHT IN PLACE, MAKE CORNERS SQUARE, FLASHINGS TRUE AND STRAIGHT IN PLANES, AND LINES ACCURATE TO PROFILES.
4. SEAL METAL JOINTS WATERIGHT.

#### 07 8100 - APPLIED FIREPROOFING

- A. SUBMITTALS: PRODUCT DATA, PROVIDE DATA INDICATING PRODUCT CHARACTERISTICS.
1. TEST REPORTS: REPORTS FROM REPUTABLE, INDEPENDENT TESTING AGENCIES FOR PROPOSED PRODUCTS, INDICATING COMPLIANCE WITH SPECIFIED CRITERIA, CONDUCTED UNDER CONDITIONS SIMILAR TO THOSE ON PROJECT, AS FOLLOWS:
- A. BOND STRENGTH.
- B. BOND IMPACT.
- C. COMPRESSIVE STRENGTH.
- D. FIRE TESTS USING SUBSTRATE MATERIALS SIMILAR THOSE ON PROJECT.

#### 2. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE SPECIAL PROCEDURES.

#### 3. MANUFACTURER'S QUALIFICATION STATEMENT:

#### I. FIELD CONDITIONS:

1. DO NOT APPLY FIREPROOFING WHEN TEMPERATURE OF SUBSTRATE MATERIAL AND SURROUNDING AIR IS BELOW -40 DEGREES F OR WHEN TEMPERATURE IS PREDICTED TO BE BELOW 50° TEMPERATURE FOR 24 HOURS AFTER APPLICATION.
2. PROVIDE VENTILATION IN AREAS TO RECEIVE FIREPROOFING DURING APPLICATION AND 24 HOURS AFTERWARD, TO DRY APPLIED MATERIAL.
3. PROVIDE TEMPORARY ENCLOSURE TO PREVENT SPRAY FROM CONTAMINATING AIR.

#### C. WARRANTY:

1. CORRECT DEFECTIVE WORK WITHIN A TWO YEAR PERIOD AFTER DATE OF SUBSTANTIAL COMPLETION.
- A. INCLUDE COVERAGE FOR FIREPROOFING TO REMAIN FREE FROM CRACKING, CHECKING, DISINTEGRATION, SPALLING, SEPARATION, AND SLUTTERING.
- B. REINSTATE OR REPAIR FAILURES THAT OCCUR WITHIN WARRANTY PERIOD.

#### D. MANUFACTURERS:

1. GCP APPLIED TECHNOLOGIES: WWW.GCPAT.COM/FIREPROOFING
2. ISOLATEK INTERNATIONAL CORP.: WWW.ISOLATEK.COM
3. SOUTHWEST FIREPROOFING PRODUCTS COMPANY: WWW.SF3.COM

#### E. MATERIALS:

1. PROVIDE ASSEMBLIES AS INDICATED ON DRAWING.
2. PROVIDE FIRE RESISTANCE RATINGS FOR FOLLOWING:
- A. PRIMARY STRUCTURAL FRAME, INCLUDING BEAMS AND TRUSSES: [1 HOUR]
- B. BEARING WALLS, INTERIOR: [1 HOUR]
- C. BEARING WALLS, INTERIOR: [1 HOUR]
- D. ROOF CONSTRUCTION, INCLUDING DECK, JOISTS, AND TRUSSES: [1 HOUR]

#### F. MATERIALS: APPLIED FIREPROOFING:

- FOR INTERIOR APPLICATIONS, CONCEALED, MANUFACTURER'S STANDARD FACTORY MIXED MAT, WHICH WHEN COMBINED WITH WATER IS CAPABLE OF PROVIDING NEEDED FIRE RESISTANCE AND MEETING ALL APPLICABLE REQUIREMENTS.
1. COMPOSITION: GYPSUM-BASED, NOT MINERAL-FIBER-BASED.
2. BOND STRENGTH: 150 POUNDS PER SQUARE FOOT, MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E709/20M WHEN SET AND DRY.
3. DRY DENSITY: AS REQUIRED BY FIRE RESISTANCE DESIGN.
4. COMPRESSIVE STRENGTH: 8.3 POUNDS PER SQUARE INCH, MINIMUM.
5. EFFECT OF IMPACT ON FINISHED SURFACES: NO CRACKING, SPALLING OR DELAMINATION, WHEN TESTED IN ACCORDANCE WITH ASTM E760/26M.
6. CORROSION: NO EVIDENCE OF CORROSION, WHEN TESTED IN ACCORDANCE WITH ASTM E837/2637M.
7. SURFACE BURNING CHARACTERISTICS: MAXIMUM FLAME SPREAD INDEX OF 0 (ZERO) AND MAXIMUM SMOKE DEVELOPED INDEX OF 0 (ZERO), WHEN TESTED IN ACCORDANCE WITH ASTM E84.

#### G. ACCESSORIES:

1. PRIMER: ADHESIVE, OF TYPE RECOMMENDED BY APPLIED FIREPROOFING MANUFACTURER.
2. OVERCOAT: AS RECOMMENDED BY MANUFACTURER OF APPLIED FIREPROOFING MATERIAL.
3. METAL LATH: EXPANDED METAL LATH, MINIMUM WEIGHT OF 1.7 PSF, GALVANIZED FINISH.
4. WATER: CLEAN, POTABLE.

#### H. INSTALLATION:

1. VERIFY THAT SURFACES ARE READY TO RECEIVE FIREPROOFING.
2. VERIFY THAT DUCTS, PIPING, EQUIPMENT, OR OTHER ITEMS THAT WOULD INTERFERE WITH APPLICATION OF FIREPROOFING HAVE NOT BEEN INSTALLED.
3. VERIFY THAT VOIDS AND CRACKS IN SUBSTRATE HAVE BEEN FILLED.
4. VERIFY THAT PROJECTIONS HAVE BEEN REMOVED WHERE FIREPROOFING WILL BE EXPOSED TO VIEW AS A FINISH MATERIAL.
5. PERFORM TESTS AS RECOMMENDED BY FIREPROOFING MANUFACTURER IN APPLICATIONS WHERE ADHESION OF FIREPROOFING TO SUBSTRATE IS IN QUESTION.
6. REMOVE INCOMPATIBLE MATERIALS THAT COULD EFFECT BOND BY SCRAPING, BRUSHING, SCRUBBING, OR SANDBLASTING.
7. PREPARE SUBSTRATES TO RECEIVE FIREPROOFING IN STRICT ACCORDANCE WITH INSTRUCTIONS OF FIREPROOFING MANUFACTURER.
8. APPLY FIREPROOFING MANUFACTURER'S RECOMMENDED BONDING AGENT ON PRIMED STEEL.
9. INSTALL METAL LATH OVER STRUCTURAL MEMBERS AS INDICATED OR AS REQUIRED BY UL ASSEMBLY DESIGN NUMBERS.
10. APPLY FIREPROOFING IN UNIFORM THICKNESS AND DENSITY AS NECESSARY TO ACHIEVE REQUIRED RATINGS.
11. INSPECT INSTALLED FIREPROOFING AFTER APPLICATION AND CURING FOR INTEGRITY, PRIOR TO ITS CONCEALMENT.
12. ENSURE THAT ACTUAL THICKNESSES, DENSITIES, AND BOND STRENGTHS MEET REQUIREMENTS FOR SPECIFIED RATINGS AND REQUIREMENTS OF AUTOMATICALLY RATED ASSEMBLIES.
13. REMOVE EXCESS MATERIAL, OVERSPRAY, DROPPINGS, AND DEBRIS.
14. REMOVE FIREPROOFING FROM MATERIALS AND SURFACES NOT REQUIRED TO BE FIREPROOFED.

#### 07 8400 - FIRESTOPPING

- A. SUBMITTALS: PRODUCT DATA: PROVIDE DATA ON PRODUCT CHARACTERISTICS, PERFORMANCE RATINGS, AND LIMITATIONS.

#### B. MANUFACTURERS:

1. 3M FIRE PROTECTION PRODUCTS: WWW.3M.COM/FIRESTOP.COM
2. HILTl, INC.: WWW.US.HILTl.COM

#### C. MATERIALS:

1. FIRESTOPPING MATERIALS: ANY MATERIALS MEETING REQUIREMENTS.
2. PRIMERS, SLEEVES, FORMS, INSULATION, PACKING, STUFFING, AND ACCESSORIES: PROVIDE TYPE OF MATERIALS AS REQUIRED FOR TESTED FIRESTOPPING ASSEMBLY.
3. FIRE RATINGS: REFER TO DRAWINGS FOR REQUIRED SYSTEMS AND RATINGS.

#### D. ASSEMBLY REQUIREMENTS:

1. HEAD-OF-WALL, JOINT SYSTEM FIRESTOPPING AT JOINTS BETWEEN FIRE-RATED WALL ASSEMBLIES AND NON-RATED HORIZONTAL ASSEMBLIES: USE SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E837 TO HAVE FIRE RESISTANCE F RATING EQUAL TO REQUIRED FIRE RATING OF FLOOR OR WALL, WHICHEVER IS GREATER.
2. FLOOR-TO-FLOOR, WALL-TO-WALL, AND WALL-TO-FLOOR JOINTS, EXCEPT PERIMETER, WHERE BOTH ARE FIRE-RATED: USE SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E1966 OR UL 2079 TO HAVE FIRE RESISTANCE.
3. FIRE RATING EQUAL TO REQUIRED FIRE RATING OF THE ASSEMBLY IN WHICH THE JOINT OCCURS.
4. THROUGH PENETRATION FIRESTOPPING: USE SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E814 TO HAVE FIRE RESISTANCE F-RATING EQUAL TO REQUIRED FIRE RATING OF PENETRATED ASSEMBLY.

#### E. INSTALLATION:

1. INSTALLATIONS SHALL CONFORM TO UL REQUIREMENTS OF THE ASSEMBLY WHICH FIRESTOPPING IS TO BECOME PART OF THE BUILT ASSEMBLY.

#### 07 9200 - JOINT SEALANTS

- A. SUBMITTALS: PRODUCT DATA, AND SCHEDULE OF LOCATIONS FOR EACH TYPE OF SEALANT SUBMITTED.

- B. JOINT-SEALANT SCHEDULE: INCLUDE THE FOLLOWING INFORMATION:
1. JOINT-SEALANT APPLICATION, JOINT LOCATION, AND DESIGNATION.
2. JOINT-SEALANT MANUFACTURER AND PRODUCT NAME.
3. JOINT-SEALANT FORMULATION.
4. JOINT-SEALANT COLOR.

- C. ENVIRONMENTAL LIMITATIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 deg F (4 deg C).

- D. COMPATIBILITY: PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS.

#### E. JOINT SEALANTS:

1. COLORS OF EXPOSED JOINT SEALANTS: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
2. INTERIOR JOINTS IN CERAMIC TILE AND OTHER HARD SURFACES IN KITCHENS, TOILET ROOMS, AND AROUND PLUMBING FIXTURES: SINGLE COMPONENT, MILDEW-RESISTANT SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS, CLASS 25; USES AT, A, AND O, FORMULATED WITH FUNGICIDE.
3. INTERIOR JOINTS AROUND PERIMETERS OF DOORS AND FRAMES: LATEX SEALANT, SINGLE COMPONENT, NONSAG, MILDEW-RESISTANT, PAINTABLE, ACRYLIC EMULSION SEALANT COMPLYING WITH ASTM C 834.
4. ACUSTICAL SEALANT FOR EXPOSED INTERIOR JOINTS: NONSAG, PAINTABLE, NONSTAINING, LATEX SEALANT COMPLYING WITH ASTM C 834.

5. ACUSTICAL SEALANT FOR CONCEALED JOINTS: NONDRYING, NONHARDENING, NONSKINNING, NONSTAINING, QUINNABLE, SYNTHETIC-RUBBER SEALANT RECOMMENDED FOR SEALING INTERIOR CONCEALED JOINTS TO REDUCE TRANSMISSION OF AERIOBIC SOUND.
6. EXTERIOR CONCRETE PANELS, NATURAL STONES, MASONRY, ALUMINUM CURTAINWALLS, METAL PANELS AND WINDOW PERIMETERS.

#### BASIS OF DESIGN PRODUCTS:

- A. TREMCO INCORPORATED: SPECTREM 1.
- B. DOW CORNING CORPORATION: 790.
- C. PECORA CORPORATION: BRONST.
7. EXTERIOR JOINTS IN HORIZONTAL TRAFFIC SURFACES.
8. ISOLATION AND CONTRACTION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.
- URETHANE JOINT SEALANT: MULTICOMPONENT, NONSAG, GRADE, CLASS 25.

#### E. JOINT SEALANT BACKING:

1. GENERAL: PROVIDE SEALANT BACKINGS OF MATERIAL THAT ARE NONSTAINING, ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS, AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.
2. CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, TYPE C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN), AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.
3. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.

#### F. MISCELLANEOUS MATERIALS:

1. PRIMER: MATERIAL RECOMMENDED BY JOINT-SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED, AS DETERMINED FROM PRECONSTRUCTION JOINT-SEALANT-SUBSTRATE TESTS AND FIELD TESTS.
2. CLEANERS FOR NONPOROUS SURFACES: CHEMICAL CLEANERS ACCEPTABLE TO MANUFACTURERS OF SEALANTS AND SEALANT BACKING MATERIALS, FREE OF OILY RESIDUES OR OTHER SUBSTANCES CAPABLE OF STAINING OR HARMING JOINT SUBSTRATES AND ADJACENT NONPOROUS SURFACES IN ANY WAY, AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS TO JOINT SUBSTRATES.
3. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MFR FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT.
4. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

6. INSTALLATION: COMPLY WITH ASTM C 1193, ASTM C 919 FOR ACUSTICAL JOINTS, AND AS FOLLOWS:
1. REMOVE ALL LOOSE MATERIAL, CLEAN AND PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AND PROTECT ADJACENT SURFACES.
2. INSTALL BOND-BREAKER TAPE WHERE JOINT BACKINGS ARE NOT USED.
3. INSTALL SEALANT TOOLED CONCAVE, FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS, AND PROTECT UNTIL FULLY CURED. SEALANT WITH DUST AND DEBRIS EMBEDDED IN SURFACE SHALL BE CAUSE FOR REJECTION.

#### DIVISION 8 - OPENINGS

#### 08 0671 - DOOR HARDWARE

- A. SUBMITTALS: PRODUCT DATA AND HARDWARE SCHEDULE INDICATING HARDWARE ITEM, FINISH, AND QUANTITY LOCATED ON EACH DOOR WITH DOOR AND HARDWARE SET NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS. REFER TO ARCHITECTURAL PLANS AND HARDWARE SCHEDULES PROVIDED.
1. HARDWARE SUPPLIER SHALL SUBMIT FOUR COPIES OF FINAL HARDWARE SCHEDULE AT EARLIEST POSSIBLE DATE PARTICULARLY WHERE ACCEPTANCE OF HARDWARE SCHEDULE MUST PRECEDE FABRICATION OF OTHER WORK WHICH IS CRITICAL IN THE PROJECT CONSTRUCTION SCHEDULE. INCLUDE WITH SCHEDULE SHOP DRAWINGS OF OTHER WORK SUBMITTED BY BUILDERS HARDWARE, AND OTHER INFORMATION ESSENTIAL TO THE COORDINATE REVIEW OF HARDWARE SCHEDULE.
2. KEYING SCHEDULE: SUBMIT SEPARATE DETAILED SCHEDULE INDICATING CLEARLY HOW THE OWNER'S FINAL INSTRUCTIONS ON KEYING OF LOCKS HAS BEEN FULFILLED. ALL KEYING SHALL BE COORDINATED WITH THE OWNER.

#### B. PRODUCTS: REFER TO HARDWARE SCHEDULE AND ARCHITECTURAL DRAWINGS.

1. STRIKES: PROVIDE MANUFACTURER'S STANDARD WROUGHT BOX STRIKE FOR EACH LATCH OR LOCK BOLT, WITH CURVED UP EXTENDED TO PROTECT FRAME. FINISH TO MATCH HARDWARE SET. PROVIDE STANDARD (OPEN) STRIKE PLATES FOR INTERIOR DOORS WHERE WOOD DOOR FRAMES ARE USED.
2. IN GENERAL, HARDWARE FINISH SHALL BE U15 (SATIN NICKEL) UNLESS SPECIFIED DIFFERENTLY ON HARDWARE SCHEDULE.
3. SUPPLY CAL ROVAL ROSS FLEXIBLE DOOR STOPS IN THE APARTMENT DWELLING UNITS. USE 2 1/8"X-23 HINGE STOPS WHERE FLEXIBLE STOPS CANNOT BE USED.
4. SUPPLY OUT SWINGING EXTERIOR DOORS WITH NON REMOVABLE PINS.

#### C. INSTALLATION:

1. MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN 'RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS AND FRAMES' BY THE DOOR AND HARDWARE INSTITUTE, EXCEPT AS SPECIFICALLY INDICATED OR REQUIRED TO COMPLY WITH GOVERNING REGULATIONS, AND EXCEPT AS MAY BE OTHERWISE DIRECTED BY ARCHITECT. MOUNT HARDWARE IN UNITS DESIGNATED FOR USE BY THE HANDICAPPED AT HEIGHTS RECOMMENDED FOR USE BY THE HANDICAPPED.
2. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, WHEREVER CUTTING AND FITTING IS REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, COORDINATE REMOVAL, STORAGE AND REINSTALLATION OR APPLICATION OF SURFACE PROTECTIONS WITH FINISHING WORK SPECIFIED IN THE DIVISION 9 SECTIONS. DO NOT INSTALL SURFACE MOUNTED UNITS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
3. SET UNITS LEVEL, PLUMB AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE AS NECESSARY FOR PROPER INSTALLATION AND OPERATION.
4. DRILL AND COUNTERBANK UNITS WHICH ARE NOT FACTORY PREPARED FOR ANCHORAGE FASTENERS. SPACE FASTENERS AND ANCHORS IN ACCORDANCE WITH INDUSTRY STANDARDS.
5. METAL THRESHOLDS SHALL BE SET IN A SOLID BED OF NON STAINING THICK PUTTY, BASE CAULKING.
6. ADJUST CHIEF OPERATING ITEM OF HARDWARE AND EACH DOOR, TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY UNIT. REPAIR UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY AS INTENDED FOR THE APPLICATION MADE.
7. FINAL ADJUSTMENT, WHEREVER HARDWARE INSTALLATION IS MADE MORE THAN ONE MONTH PRIOR TO ACCEPTANCE OR OCCUPANCY OF A SPACE OR AREA, RETURN TO THE WORK DURING THE WEEK PRIOR TO ACCEPTANCE OR OCCUPANCY, AND MAKE FINAL CHECK AND ADJUSTMENT OF ALL HARDWARE ITEMS IN SUCH SPACE OR AREA. CLEAN OPERATING ITEMS AS NECESSARY TO RESTORE PROPER FUNCTION OF EACH ITEM.
- HARDWARE AND DOORS. ADJUST DOOR CONTROL DEVICES TO COMPENSATE FOR FINAL OPERATION OF HEATING AND VENTILATING EQUIPMENT.

#### HARDWARE SET: 1.0

#### FOR USE ON DOOR (S):

#### N-101, N-102

#### PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881 4.5 X 4.5	BRUSHED NICKEL	IVE
1 EA	PRIVACY WDR B AND	L3498P9 6GA L583-303	BRUSHED NICKEL	SCH
1 EA	SURFACE CLOSER	4040P REG	BRUSHED NICKEL	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	BRUSHED NICKEL	IVE
1 EA	WALL STOP	WS4046G7CVX	BRUSHED NICKEL	IVE
3 EA	SLENCER	S864	GRY	NE

#### HARDWARE SET: 2.0

#### FOR USE ON DOOR (S):

#### N-103

#### PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881 4.5 X 4.5	BRUSHED NICKEL	IVE
1 EA	STOREROOM LOCK	L908P9 6GA	BRUSHED NICKEL	SCH
1 EA	HO STOP	905	BRUSHED NICKEL	GLY
3 EA	SLENCER	S864	GRY	IVE

#### HARDWARE SET: 3.0

#### FOR USE ON DOOR (S):

#### S-100C

#### PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881HW 4.5 X 4.5 NRP	BRUSHED NICKEL	IVE
1 EA	STOREROOM LOCK	N08LD RHO	BRUSHED NICKEL	SCH
1 EA	FISC CORE	PERMANENT CORE	BRUSHED NICKEL	SCH
1 EA	KEYED CONST CORE	KEYED CONST CORE	BRUSHED NICKEL	SCH
1 EA	SURFACE CLOSER	4040P 3/8INCH MC	BRUSHED NICKEL	LCN
1 EA	RAN DRIP	142	BRUSHED NICKEL	ZER
1 EA	GASKETING	328-S	BRUSHED NICKEL	ZER
1 EA	DOOR SWEEP	39	BRUSHED NICKEL	ZER
1 EA	THRESHOLD	555-223	BRUSHED NICKEL	ZER
1 EA	DOOR CONTACT	679-05HM OR WD AS REQD	BRUSHED NICKEL	SCB

#### 08 1113 - HOLLOW METAL DOORS AND FRAMES

- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS WITH DETAILS OF EACH OPENING, SHOWING ELEVATIONS, GLAZING, FRAME PROFILES, AND ANY INDICATED FINISH REQUIREMENTS.

#### B. HOLLOW METAL DOOR AND FRAME MANUFACTURERS:

1. CEOO DOOR, AN ASSA ABLOY GROUP COMPANY: WWW.ASSAABLOYDOSS.COM
2. DE LA FONTAINE INC.: WWW.DELAFONTAINE.COM
3. REPUBLIC DOORS, AN ALLEGION BRAND: WWW.REPUBLICDOOR.COM
4. STEELCRAFT, AN ALLEGION BRAND: WWW.ALLEGION.COM







4/21/2022 9:38:41 AM

A12 ROOF DEMO PLAN  
1/8" = 1'-0"

A8 2ND FLOOR DEMO PLAN  
1/8" = 1'-0"

A4 1ST FLOOR DEMO PLAN  
1/8" = 1'-0"

GEN. DEMO NOTES

1. CONTRACTOR TO VISIT PROJECT SITE AND BUILDING, PRIOR TO BID.
2. BUILDING AND SITE TO REMAIN SECURE DURING DEMOLITION AND CONSTRUCTION.
3. PROTECT ALL ITEMS TO REMAIN (WALLS, PLUMBING FIXTURES, PIPING, HVAC UNITS, COLUMNS, ETC.).
4. CARE IS TO BE EXERCISED IN THE DEMOLITION OPERATIONS. EXISTING SURFACES TO REMAIN SHALL BE PROTECTED. ANY DAMAGE INCURRED AS A RESULT OF DEMOLITION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BEAR THE COST OF REPAIRING SUCH DAMAGE.
5. ALL OPENINGS IN WALLS AND ROOFS RESULTING FROM EQUIPMENT AND/OR PIPE REMOVAL SHALL BE SEALED WEATHERTIGHT. ALL CONDITIONS SHALL BE LEFT SAFE AND HAZARD FREE.
6. CONTRACTOR TO REPAIR ANY AREAS DAMAGED DURING DEMOLITION.
7. CONTRACTOR TO COORDINATE DEMOLITION OPENINGS WITH NEW PLANS AND ELEVATIONS.
8. ALL MEP SYSTEMS TO BE REMOVED TO BE FULLY COORDINATED WITH EXISTING CONDITIONS. ALL SYSTEMS TO BE REMOVED COMPLETELY THAT ARE NOT BEING RE-UTILIZED.
9. PROTECT EXISTING CONDITIONS AND MAINTAIN WEATHER TIGHTNESS FOR ALL OCCUPIED UNOCCUPIED SPACES, BOTH VERTICALLY AND HORIZONTALLY FOR THE ENTIRE DURATION THAT THE BUILDING IS EXPOSED TO THE ELEMENTS. PATCH/REPAIR/REPLACE AS REQUIRED.

DEMO FLOOR PLAN  
KEYED NOTES

MARK	DESCRIPTION
1	REMOVE EXISTING FLOOR AND ALL ASSOCIATED CONSTRUCTION. PREPARE ENTIRE SUB-FLOOR FOR NEW DRAIN TILE AND CLEAN GRAVEL. EXTERIOR WALLS AND FOUNDATIONS TO BE PREPARED FOR NEW WATERPROOFING BELOW GRADE.
2	PROTECT COLUMNS AND BRACE AS NECESSARY TO PROVIDE FULL STABILITY DURING REWORK OF SUB-FLOOR AREA.
3	EXISTING MAIN STAIR TO 2ND LEVEL TO REMAIN. PROTECT STAIR AND BRACE AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY WHILE SUB-FLOOR IS REMOVED. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
4	REMOVE EXISTING DOORS/FRAMES/WALLS AND ROUGH-INS FOR MEP SYSTEMS. REFER TO MEP FOR ADDITIONAL NOTES.
5	REMOVE EXISTING RESTROOM CORE AND ALL ASSOCIATED MEP SYSTEMS. REFER TO MEP FOR ADDITIONAL INFORMATION.
6	REMOVE WINDOW AND PREPARE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
7	REMOVE EXISTING WEATHERHOOD AND LOUVER ABOVE EXTERIOR DOOR. REMOVE DOOR AND ENLARGE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
8	REMOVE WINDOW SYSTEM AND ALL FAILED COMPONENTS. PREPARE OPENING FOR NEW WINDOW SYSTEM, FRAMING AND FLASHINGS.
9	REMOVE BROKEN GLASS. PREPARE FOR NEW GLASS INSTALL.
10	REMOVE PLATFORM AND ALL NON-STRUCTURAL FRAMING.
11	REMOVE ALL COMPONENTS THAT NO LONGER ARE ACTIVE, IN GOOD WORKING ORDER, OR ABANDONED. COORDINATE WITH MEP FOR ADDITIONAL ITEMS TO BE REMOVED.
12	PREPARE ROOF FOR NEW RTU CURBS AND OPENINGS. COORDINATE EXACT LOCATIONS WITH MEP/STRUCTURAL DOCUMENTS.

MAIN STREET BUILDING IMPROVEMENTS

230 SW MAIN ST.  
LEE'S SUMMIT, MO 64063

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REVISION DATES:



PROFESSIONAL SEAL

D101

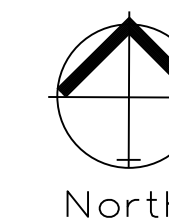
ISSUE DATE: 21 APRIL, 2022  
COLLINS WEBB #: 21121

DEMO PLANS

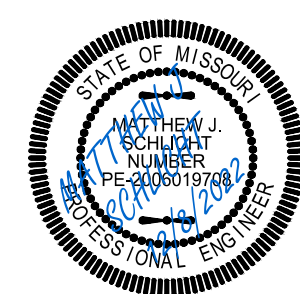


PERMIT DOCUMENTS





DEMOLITION PLAN  
SCALE: 1" = 10'



Matthew J. Schlicht  
MO PE 2006015708  
KS PE 19071  
OK PE 23226  
NE PE E-14335

REVISIONS  
City Comments 5/17/2022  
Patio Revision 9/23/2022  
Revision 12/8/2022

C.010

Demolition Plan  
Preliminary Development Plans  
230 SW Main Street  
Lee's Summit, Jackson County, Missouri

Project: 228 SW MAIN, L&MO  
Issue Date: April 21, 2022

Preliminary Development Plans  
230 SW Main Street  
Lee's Summit, Jackson County, Missouri

Professional Registration  
Missouri  
Engineering 2005002186-D  
Surveying 2005000319-D  
Kansas  
Engineering E-1695  
Surveying LS-218  
Oklahoma  
Engineering E254  
Nebraska  
Engineering CA2821

**ENGINEERING SOLUTIONS**  
ENGINEERING & SURVEYING  
5010 S. 10TH STREET  
LEE'S SUMMIT, MO 64082  
P: 816/623-9888 F: 816/623-9849









- Notes**
1. Contractor is responsible for verifying all existing utility locations prior to excavation
  2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
  3. No part of the project lies within the 100 year flood plain
  4. All erosion and sediment control measures need to be implemented prior to construction
  5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
  6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
  7. Contractor responsible for all density testing of roadway subgrade and granular base.



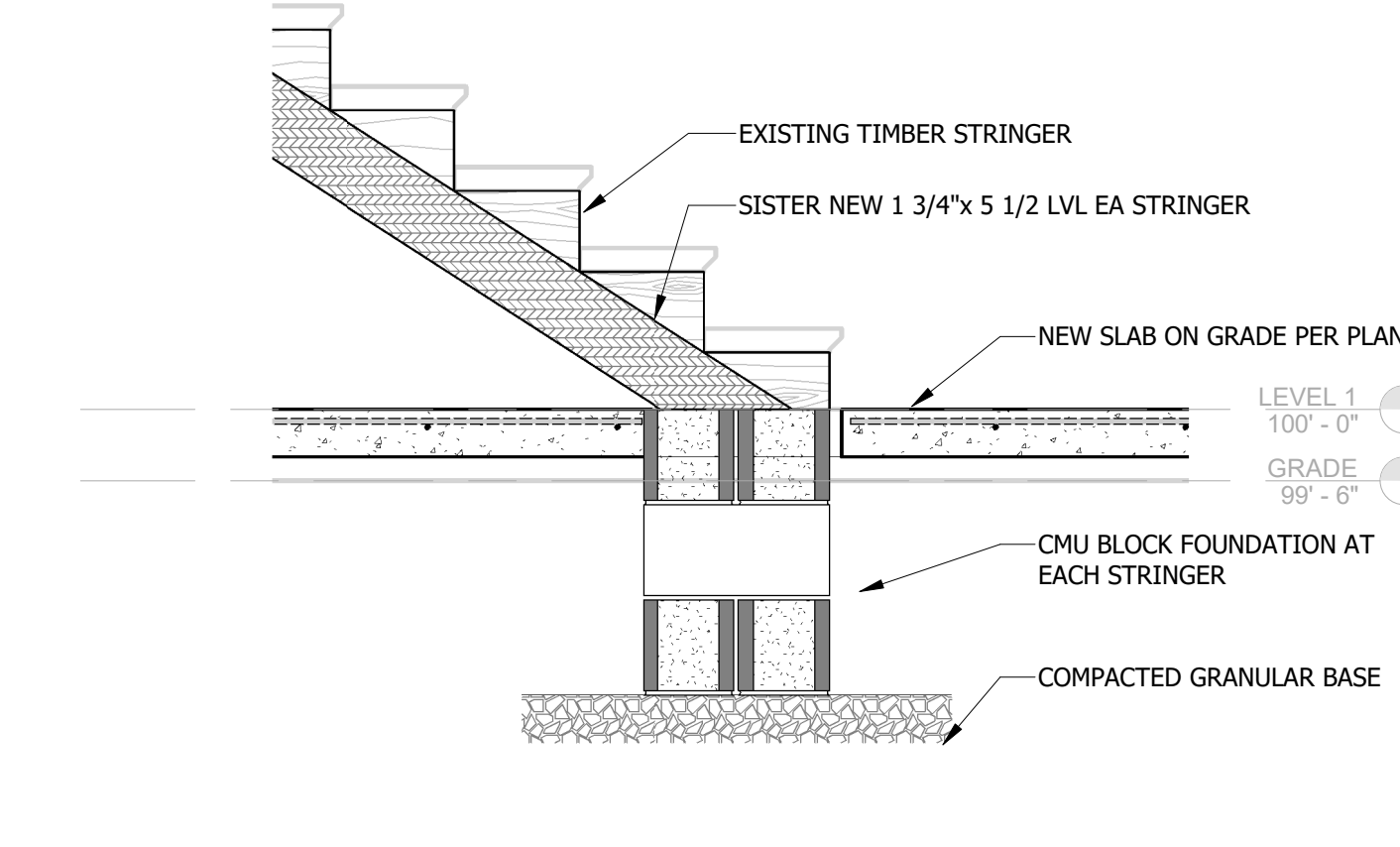
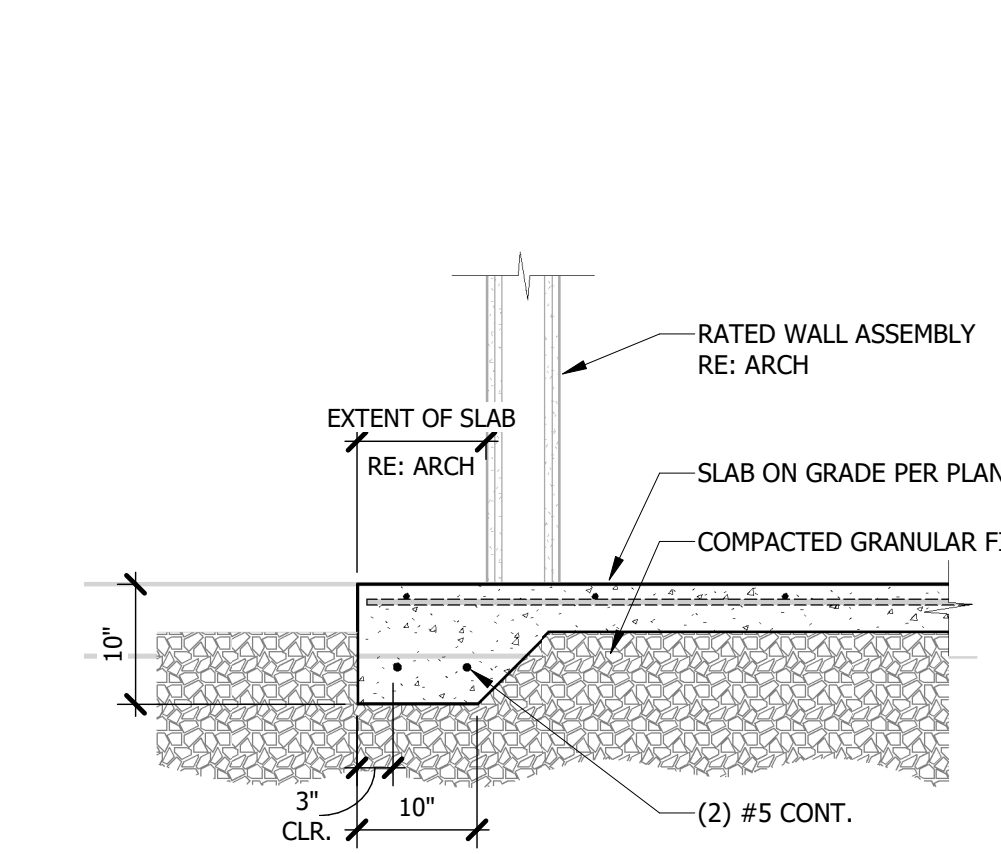
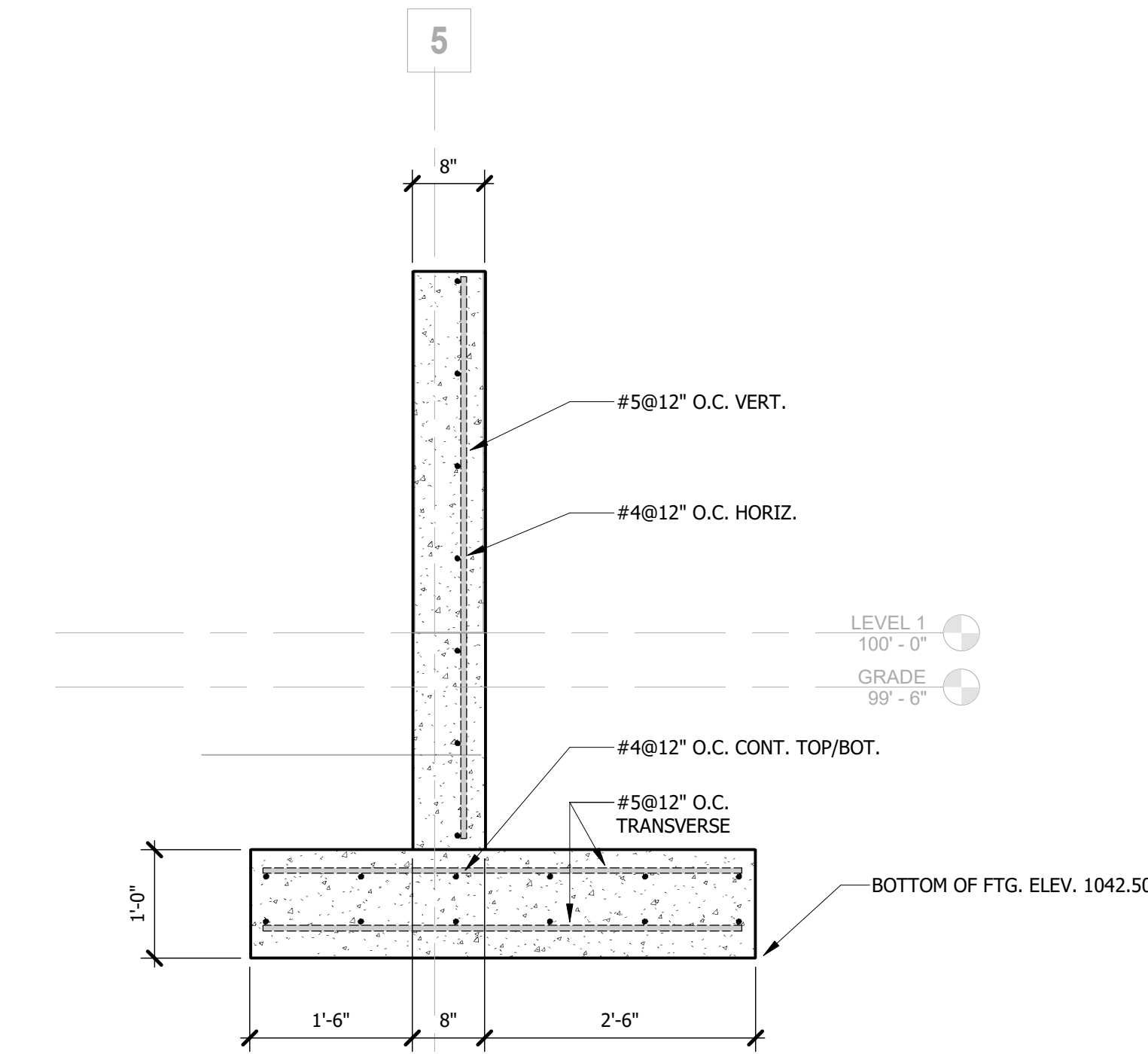
1. ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.
2. DESIGN LOADS
- A. OVERALL BUILDING CLASSIFICATIONS
1. RISK CATEGORY II
2. SNOW IMPORTANCE FACTOR,  $I_s$  1.00
3. ICE IMPORTANCE FACTOR - WIND,  $I_w$  1.00
4. SEISMIC IMPORTANCE FACTOR,  $I_e$  1.00
- B. 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.
- C. ROOF DEAD AND LIVE LOADS
1. DEAD LOAD TOP CHORD 20 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.)
- D. ROOF SNOW LOADS
1. GROUND SNOW LOAD,  $P_g$  15 PSF
2. FLAT ROOF SNOW LOAD,  $P_f$  11.34 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
- E. WIND LOADS
1. BASIC WIND SPEED (3 SECOND GUST) 107 MPH
2. EXPOSURE CATEGORY C
3. INTERNAL PRESSURE COEFFICIENT,  $GCF_i$  +/- 0.18
4. COMPONENTS AND CLADDING PER ASCE 7-16, REFER TO XX/XXXX.
- F. SEISMIC LOADS
1.  $S_s$  0.189
2.  $S_1$  0.105
3. SITE CLASS C
4.  $S_{MS}$  0.164
5.  $S_{M1}$  0.105
6. SEISMIC DESIGN CATEGORY B
7. SEISMIC FORCE RESISTING SYSTEM WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR
8. DESIGN BASE SHEAR  $C_w$  0.025
9. DESIGN RESPONSE COEFFICIENT,  $C_s$  6.5
10. RESPONSE MODIFICATION COEFFICIENT, R EQUIVALENT LATERAL FORCE (ELF) PROCEDURE
11. ANALYSIS PROCEDURE USED
- G. ROOF RAIN LOADS
1. 60-MIN DURATION/100 YEAR RAIN INTENSITY,  $I$  3.20 IN
2. 15-MIN DURATION/100 YEAR RAIN INTENSITY,  $I$  1.61 IN

3. 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.
4. THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.
5. THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS, FRAMING, SHEAR WALLS, PERMANENT BRACING, AND EXTERIOR LOAD-BEARING WALLS ARE COMPLETE AND HAVE ACHIEVED THEIR RESPECTIVE DESIGN STRENGTHS. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING STRUCTURAL STABILITY DURING ERECTION AND CONSTRUCTION. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE.
6. PROVIDE ADEQUATE SHORING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADS DUE TO CONSTRUCTION. DO NOT BACKFILL UNTIL CONCRETE HAS CURED 14 DAYS.

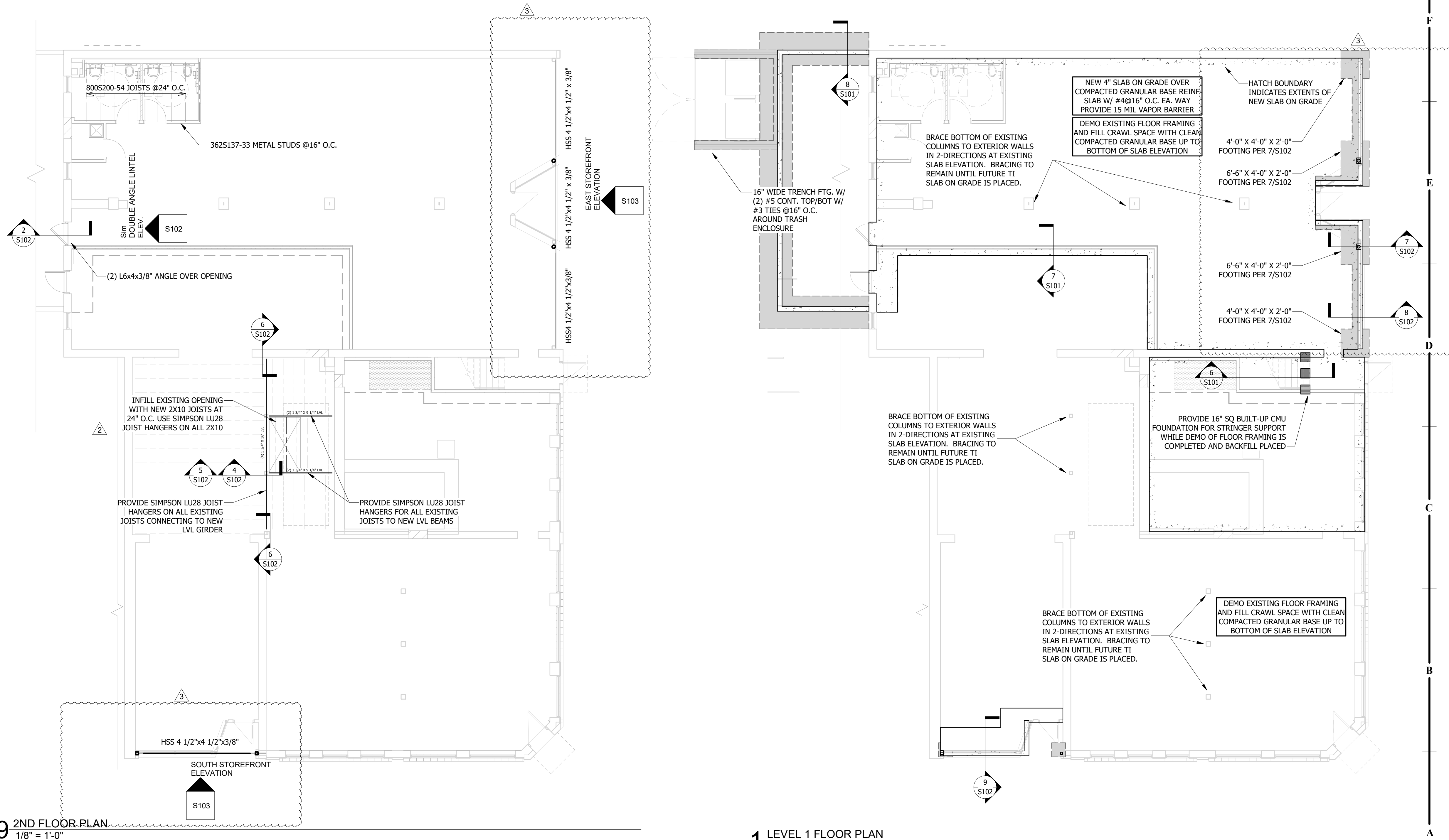
9. CONCRETE
- A. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.
- B. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:
1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (w/c MAX 0.45)
2. SLAB ON GRADE: 4000 PSI (w/c MAX 0.42)
3. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.
- C. SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES.
- D. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.
- E. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET).
- F. CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.
- G. CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.
- H. ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLORING AGGREGATE, OR USE A KEYED COLD JOINT.
- I. CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH RATIOS OF JOINTED PANELS SHALL NOT EXCEED 1.5:1. COORDINATE LOCATIONS OF CONTROL JOINTS WITH ARCHITECT.
- J. CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PIERS INTEGRAL WITH WALLS, NEAR CORNERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CONTROL JOINTS AT CONTRACTOR'S DISCRETION. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT.
- K. PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THOROUGHLY CHECKED AND COORDINATED ALL DIMENSIONS, ELEVATIONS, OPENINGS, RECESS, AND BLOCKOUTS AS SHOWN ON ANY CONTRACT DRAWINGS. IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT OR ENGINEER FOR NECESSARY CORRECTIVE ACTION.
- L. EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE.
- M. ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE.
- N. HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.

12. MASONRY
- A. MASONRY UNIT COMPRESSIVE STRENGTH ( $f'_m$ ) = 1500 PSI. MORTAR - TYPE S.
- B. LINTELS SHALL BE STEEL BEAMS OR MASONRY BOND BEAMS AS SHOWN ON THE PLANS. OPENINGS LESS THAN 4'-0" WIDE SHALL BE A BOND BEAM WITH (2) #5 CONTINUOUS EXTENDING PAST OPENINGS A MIN. OF 2'-0".
- C. GROUT ALL REINFORCED CELLS AND CELLS BELOW GRADE SOLID.
- D. PLACE A BOND BEAM WITH (2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C. VERTICALLY.
- E. REINFORCE 8" CMU WALLS WITH #5 @ 32" O.C. VERT. AND 12" CMU WALLS WITH #5 @ 24" O.C. VERT. UNLESS NOTED OTHERWISE. IN ADDITION, REINFORCE WALL CORNERS AND JAMBS OF WINDOWS AND DOORS WITH (2) #5 EXTENDING PAST OPENINGS A MIN. OF 2'-0".
- F. BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSIDE OF DECK.
13. ROUGH CARPENTRY
- A. HEADERS, JOISTS, AND RAFTERS SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REQUIREMENTS. (EXAMPLE SPECIES: #2 SPRUCE-PINE-FIR)
1.  $F_b$  875 PSI
2.  $F_v$  135 PSI
3.  $F_c$  1150 PSI
4. E 1400 KSI
- B. TIMBER FRAMING MEMBERS SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REQUIREMENTS. (EXAMPLE SPECIES: #2 SPRUCE-PINE-FIR)
1.  $F_b$  875 PSI
2.  $F_v$  135 PSI
3.  $F_c$  1150 PSI
4. E 1400 KSI
- C. ALL LVL MEMBERS SHALL BE 2.0E MICROLAM OR APPROVED EQUAL.
- D. ALL WOOD FRAMING MEMBERS INDICATED ARE NOMINAL SIZES. PROVIDE ACTUAL DRESSED SIZES, KILN-DRIED, WITH MAXIMUM IN-PLACE MOISTURE CONTENT OF 19%.
- E. ALL BOLTS ARE A36 OR A307, GRADE 1, AND ALL NAILS ARE COMMON WIRE NAILS UNLESS NOTED OTHERWISE.
- F. LAY ALL STRUCTURAL PANELS WITH FACE GRAIN PERPENDICULAR TO SUPPORTING MEMBERS AND OFFSET END JOINTS 4'-0". PANELS TO BE APA RATED AND STAMPED FOR THE LOADING SHOWN IN SECTION 2 "DESIGN" AND SHOULD MATCH THE SUPPORT SPACING SHOWN ON THE PLANS.
- G. ROOF DECKING SHALL BE 3/4" THICK APA RATED EXTERIOR GRADE SHEATHING FASTENED WITH 10d NAILS AT 6" O.C. ON EDGES AND 12" O.C. IN FIELD UNLESS NOTED OTHERWISE. FASTENER QUALITY, QUANTITY, SIZE, AND SPACING SHALL COMPLY WITH IBC FASTENING SCHEDULE (TABLE 2304.9) UNLESS NOTED OTHERWISE.
- H. ALL WOOD IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED.

14. STRUCTURAL STEEL
- A. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST APPLICABLE EDITION AND AISC CODE OF STANDARD PRACTICE.
- B. ALL STRUCTURAL STEEL FOR WIDE FLANGE SHALL BE A992 GRADE 50 UNLESS NOTED OTHERWISE. ALL ANGLES, PLATES AND CHANNELS SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL RECTANGULAR AND ROUND HSS SHAPES SHALL BE ASTM A500, GRADE B.
- C. ALL BOLTS SHALL BE 3/4" Ø A-325 BOLTS WITH HEAVY HEX HEADS UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL HAVE A MINIMUM OF (2) 3/4" Ø BOLTS, BEARING TYPE CONNECTIONS ONLY.
- D. ALL STRUCTURAL STEEL WELDS IN THE SHOP OR IN THE FIELD SHALL BE PERFORMED BY A QUALIFIED WELDER AND SHALL CONFORM TO THE CURRENT REQUIREMENTS OF A.W.S.
- E. SHOP WELDED AND FIELD BOLTED CONNECTIONS ARE PREFERRED UNLESS NOTED OTHERWISE.
- F. THE CONTRACTOR SHALL PROVIDE SHELF ANGLES, GLASS SUPPORTS, LINTELS, AND OTHER MISC. STEEL AS SHOWN ON THESE DRAWINGS AS REQUIRED TO PROVIDE SUPPORT (STABILIZATION) AROUND AND THROUGHOUT THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISC. STEEL DETAILS.



- FOUNDATION PLAN NOTES:
- TOP OF CONCRETE SLAB ELEVATION = 99'-0".
  - 4" SLAB ON GRADE REINFORCED WITH 6x6 W2.9xW2.9 OVER 4" GRANULAR FILL AND 10 MIL VAPOR BARRIER, UNLESS NOTED OTHERWISE.
  - SLAB CONTROL AND CONSTRUCTION JOINTS PER DETAIL A5/S301. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTROL JOINTS AT THE CONTRACTOR'S DISCRETION.
  - ISOLATION JOINTS PER DETAIL A12/S301.
  - FOOTING STEPS PER DETAIL E1/S301.
  - #4x5'-0" LONG AT ALL RE-ENTRY CORNERS.
  - CONTRACTOR TO COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH ALL OTHER DISCIPLINES.
  - DURING INSTALLATION OF ALL POST CONSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVOID ALL REINFORCING.
  - REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
  - REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
  - ALL JACK STUDS TO BE CARRIED DOWN TO FOUNDATION LEVEL.
  - SHEAR WALL HOLDOWN PER DETAIL K16/S201.
  - REFER TO SHEET S201 FOR SHEAR WALL INFORMATION.
  - ALL SILL ANCHORS TO BE 1/2" DIA. SIMPSON TITEN HD @32" WITH 3 1/2" EMBEDMENT.



1 LEVEL 1 FLOOR PLAN  
1/8" = 1'-0"

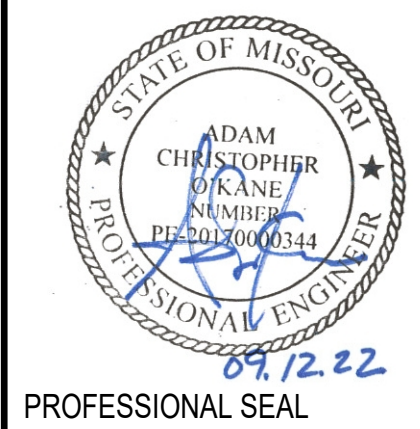


# MAIN STREET LANDLORD IMPROVEMENTS

230 SW MAIN ST.  
LEE'S SUMMIT, MO 64063

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REVISION DATES:  
1 City Comments 5/17/22  
2 Revision 2 6/12/22  
3 Owner 9/12/22  
Revisions

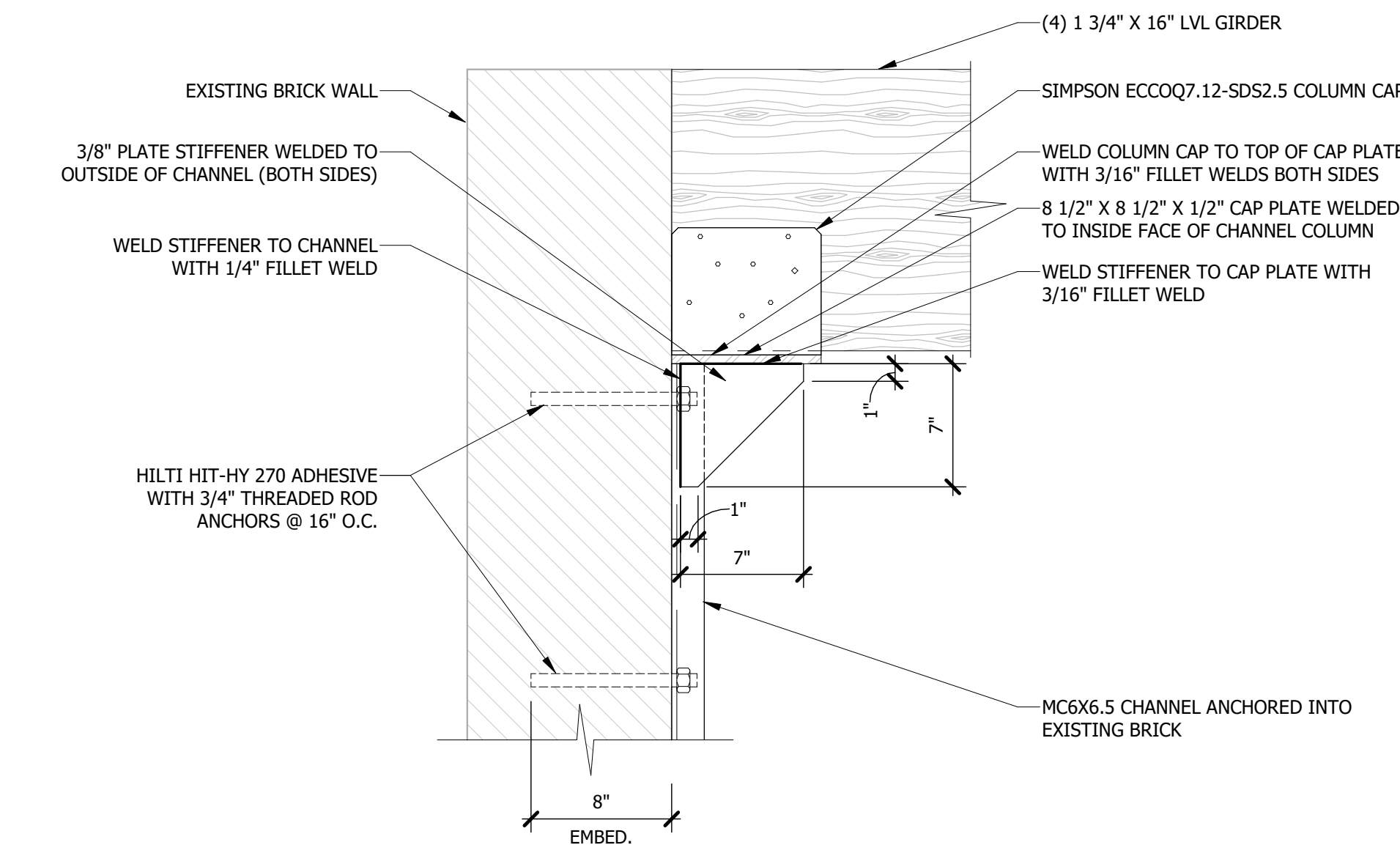


**S102**  
ISSUE DATE: APRIL 21, 2022  
COLLINS WEBB #: 21121

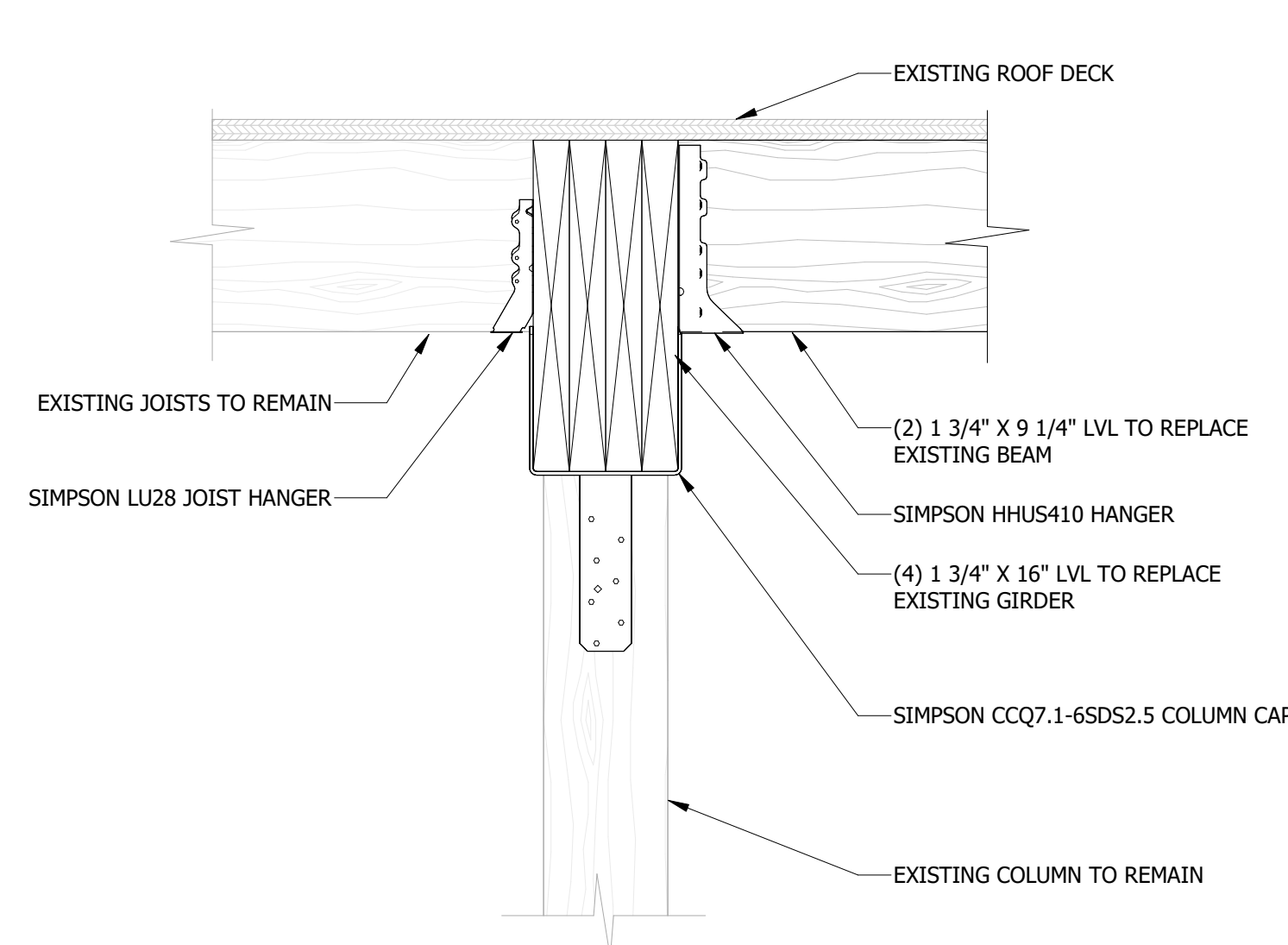
STRUCTURAL PLANS AND  
SECTIONS

PERMIT SET

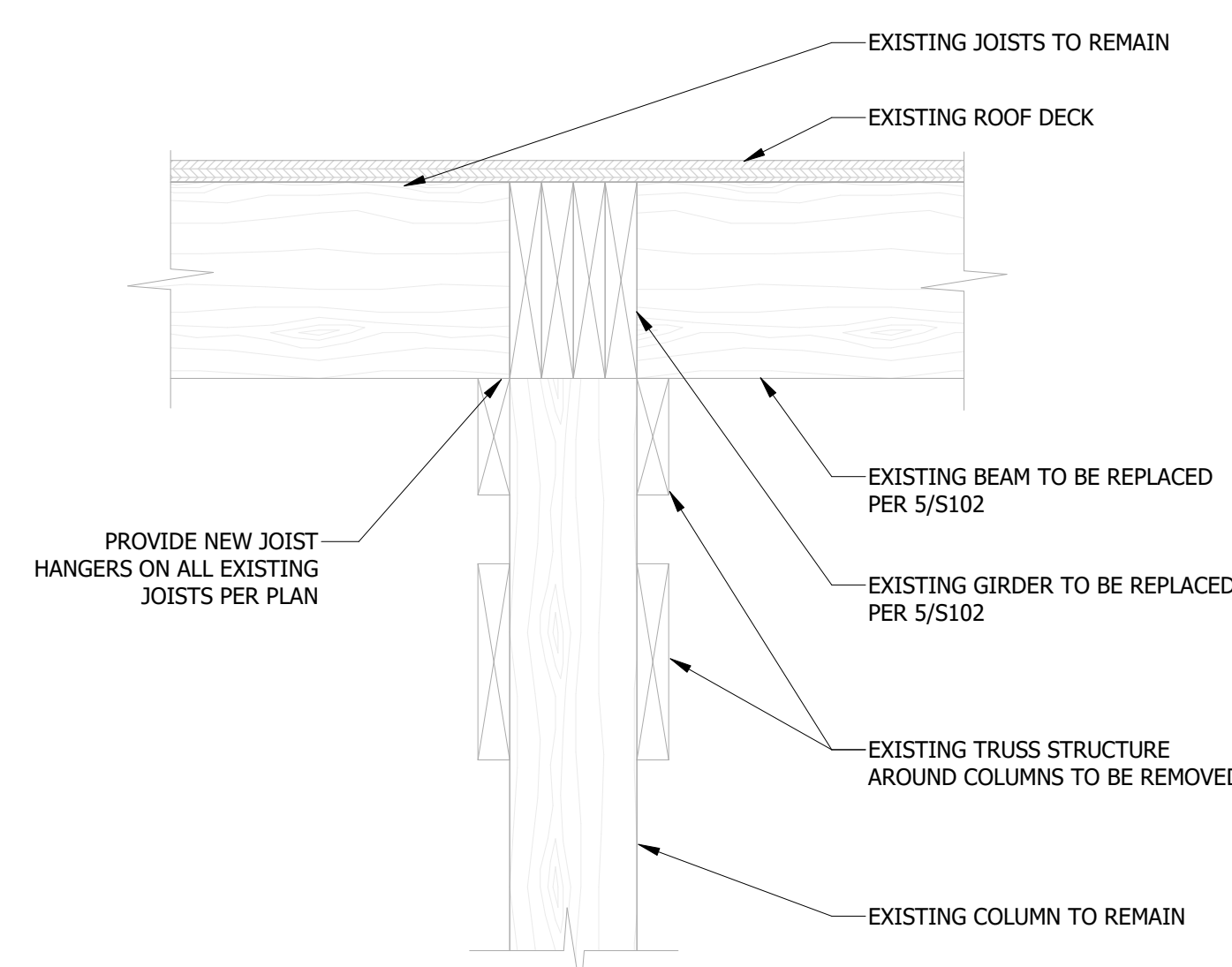
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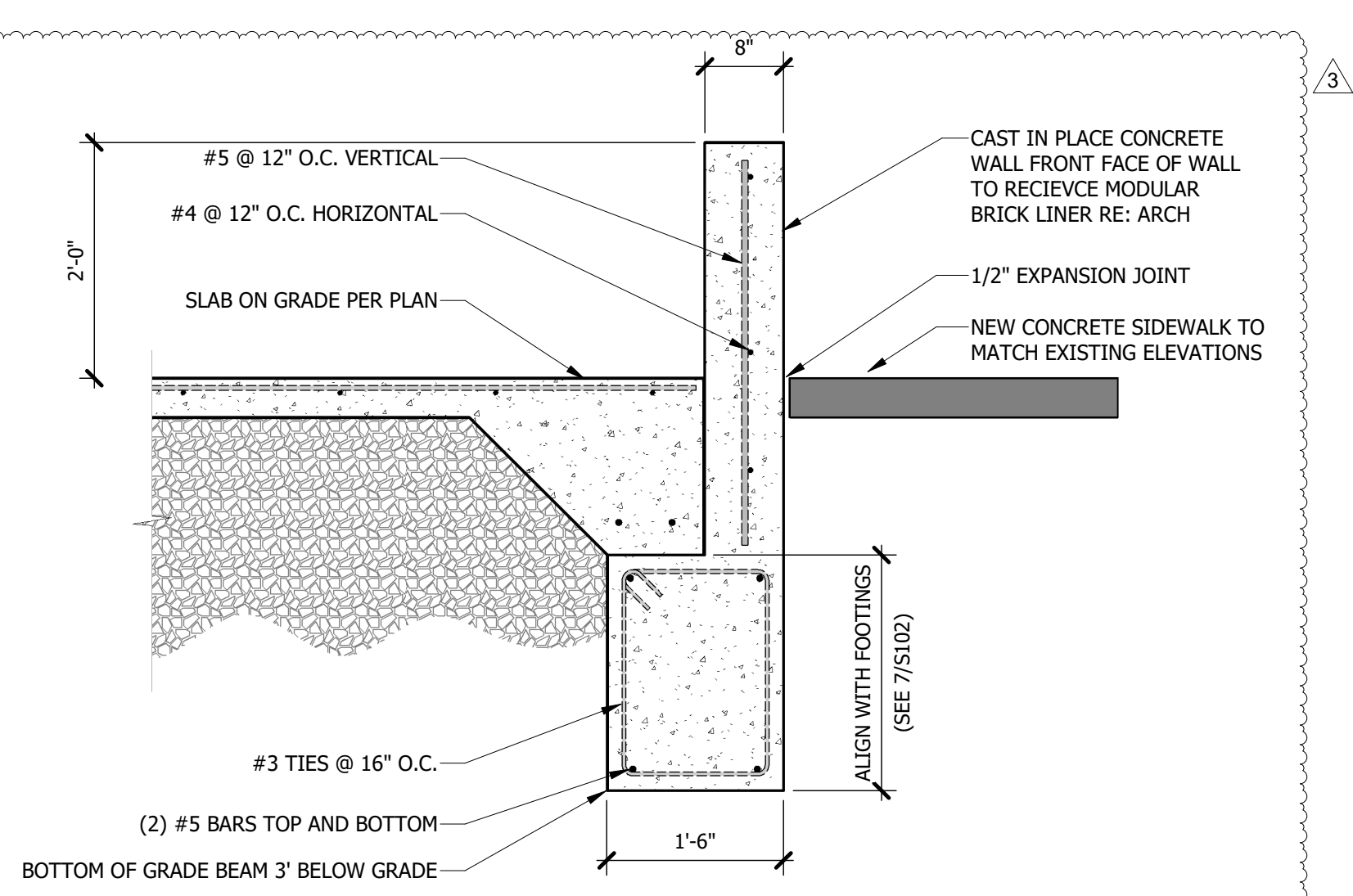
**6** LVL GIRDER TO EXISTING BRICK  
1 1/2" = 1'-0"



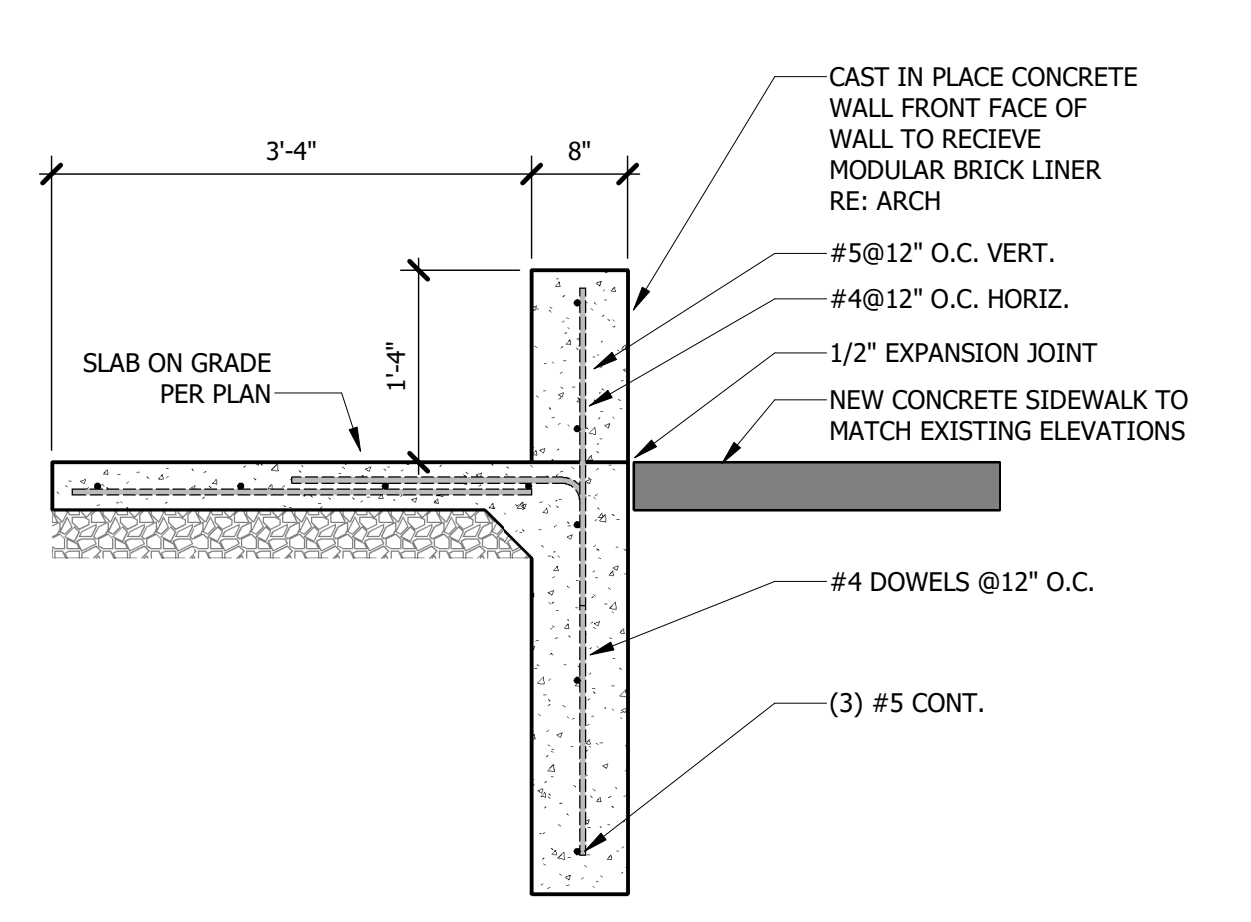
**5** REPLACEMENT ROOF SUPPORT  
1 1/2" = 1'-0"



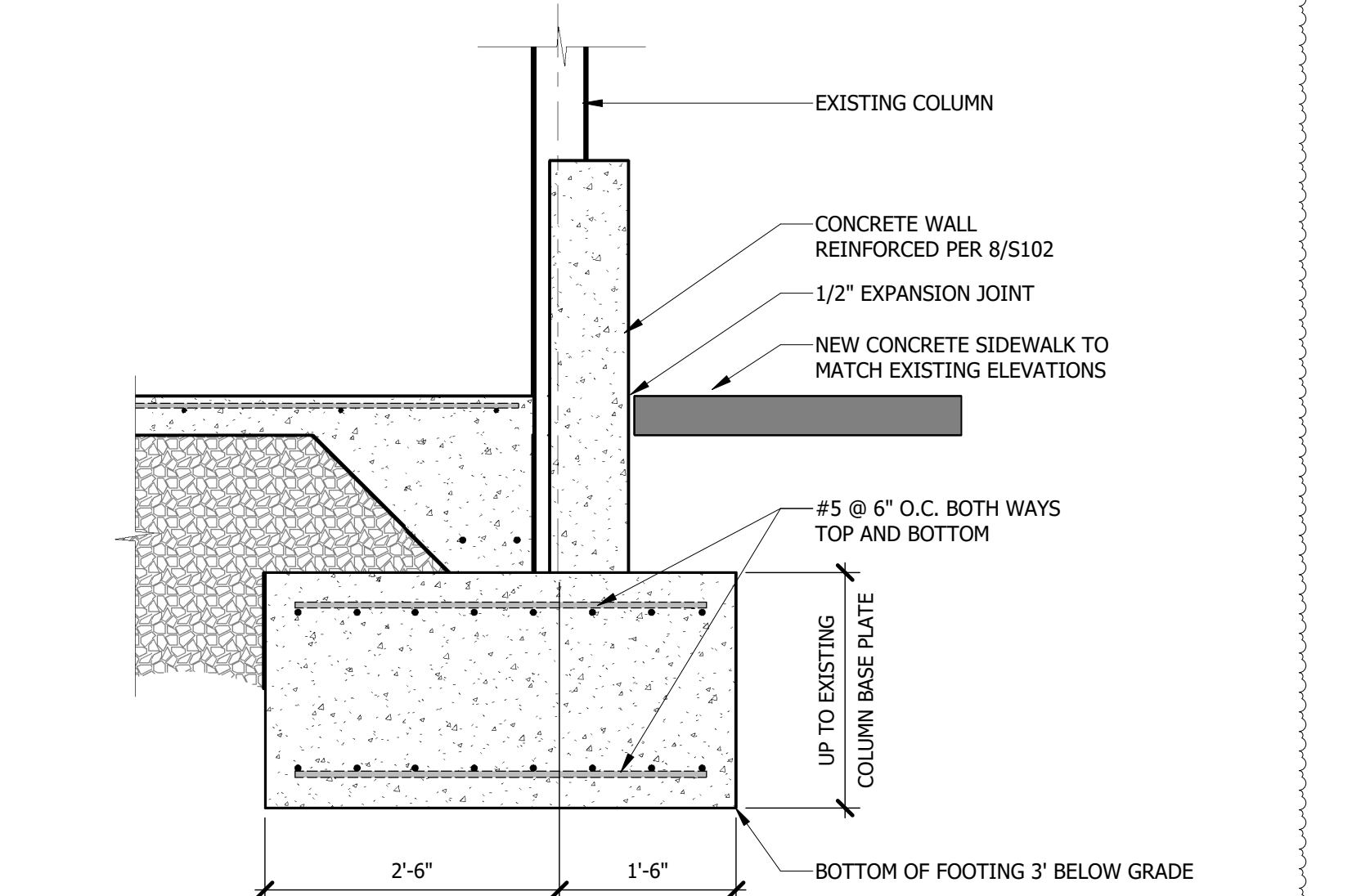
**4** EXISTING ROOF SUPPORT  
1 1/2" = 1'-0"



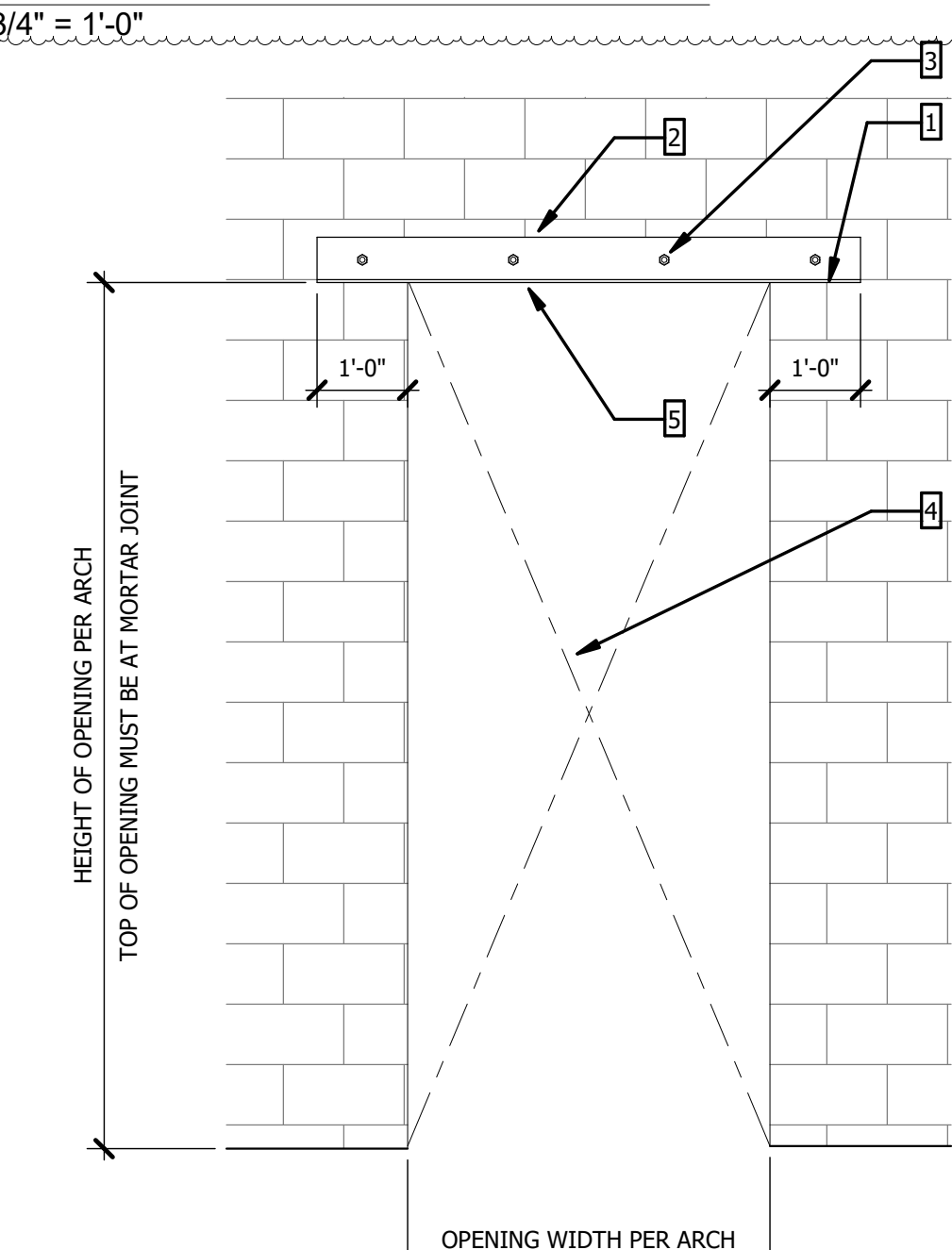
**8** EAST STOREFRONT GRADE BEAM (TYP.)  
3/4" = 1'-0"



**9** SOUTH STOREFRONT FOUNDATION  
3/4" = 1'-0"

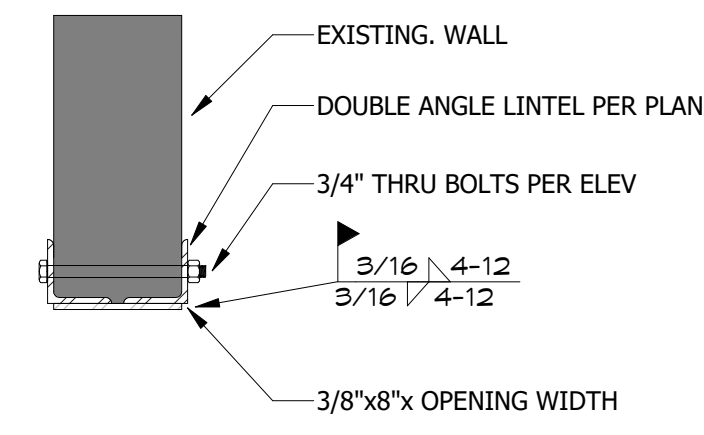


**7** EAST STOREFRONT FOOTINGS FOR EXISTING COLUMNS (TYP.)  
3/4" = 1'-0"

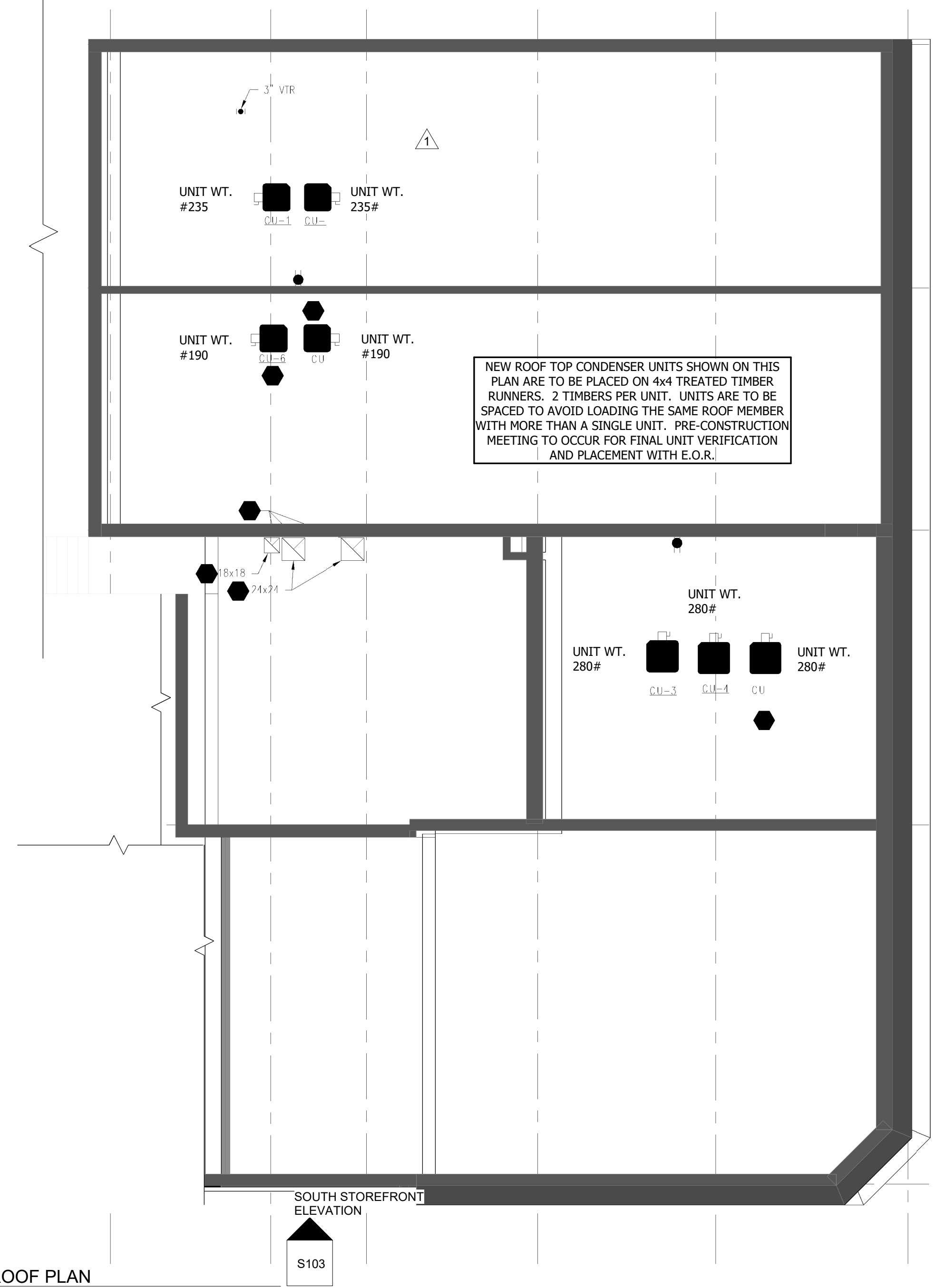


**3** DOUBLE ANGLE LINTEL ELEV.  
1/2" = 1'-0"

INSTALL SEQUENCE  
1. SAW-CUT EXISTING MORTAR JOINT AT OPENING HEIGHT FULL WIDTH OF OPENING PLUS 1'-0" EITHER SIDE  
2. INSTALL ANGLES BOTH SIDES OF OPENING  
3. INSTALL THRU-BOLTS FOR LENGTH OF LINTEL. TIGHTEN ALL NUTS AND WASHERS  
4. INTERIOR MASONRY REMOVED FROM OPENING  
5. WELD PLATE TO UNDERSIDE OF LINTEL



**2** DOUBLE ANGLE LINTEL  
1" = 1'-0"



**1** ROOF PLAN  
1/8" = 1'-0"



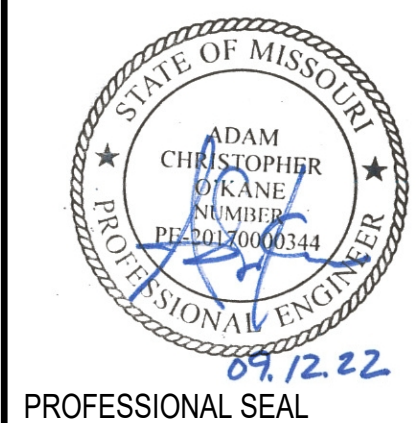
# MAIN STREET LANDLORD IMPROVEMENTS

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REVISION DATES:

3	Owner Revisions	9/12/22
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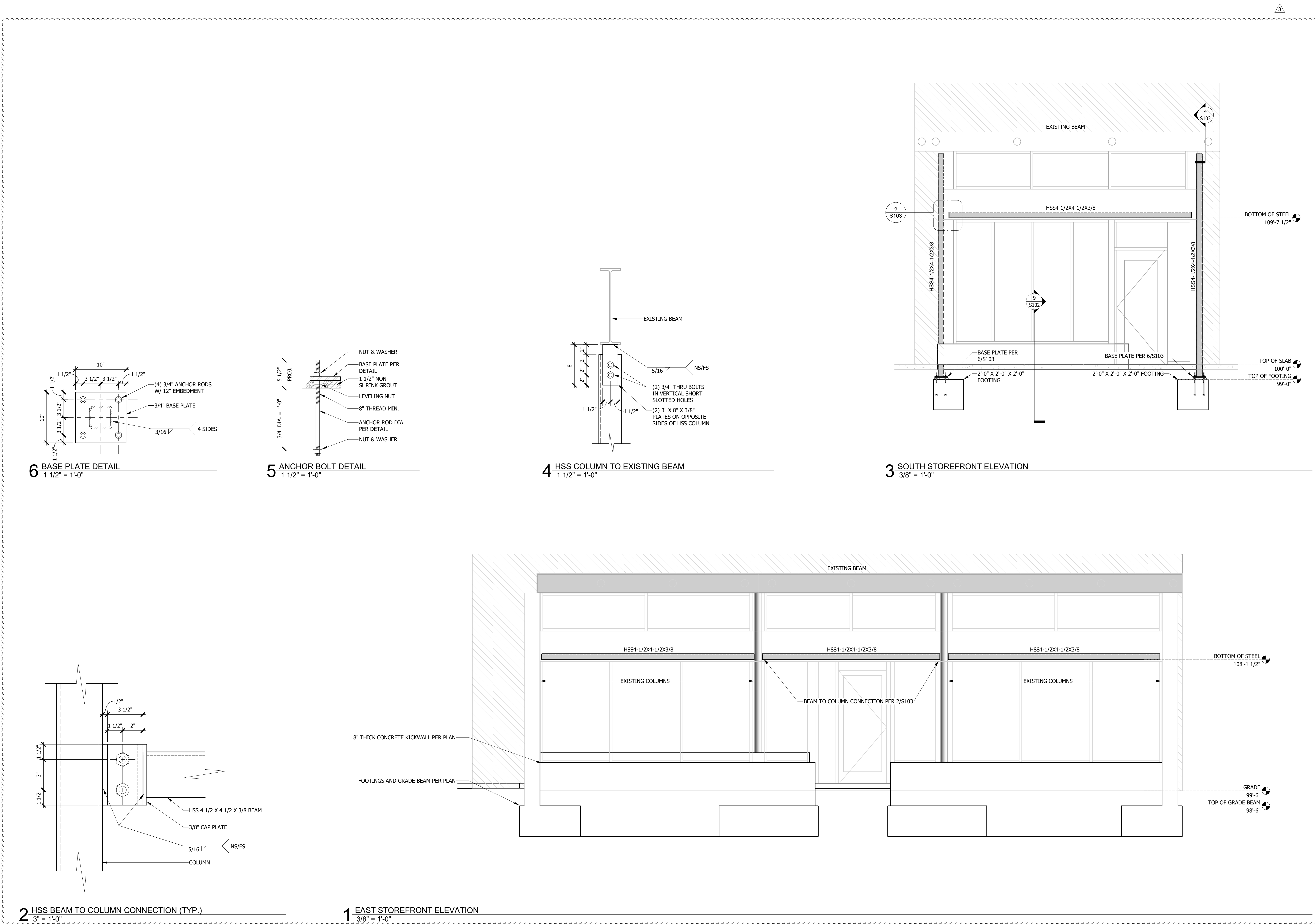
PROFESSIONAL SEAL

## S103

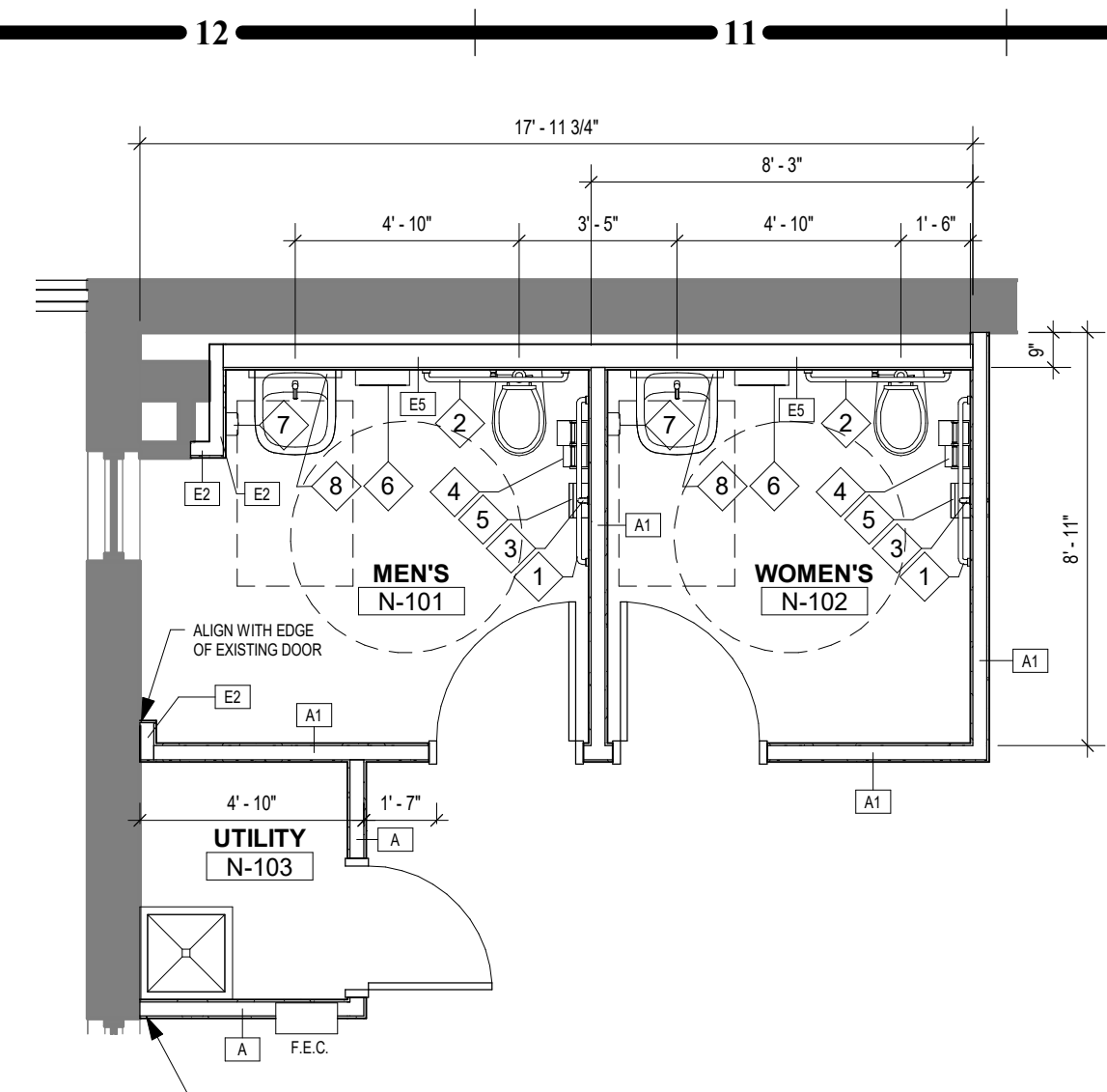
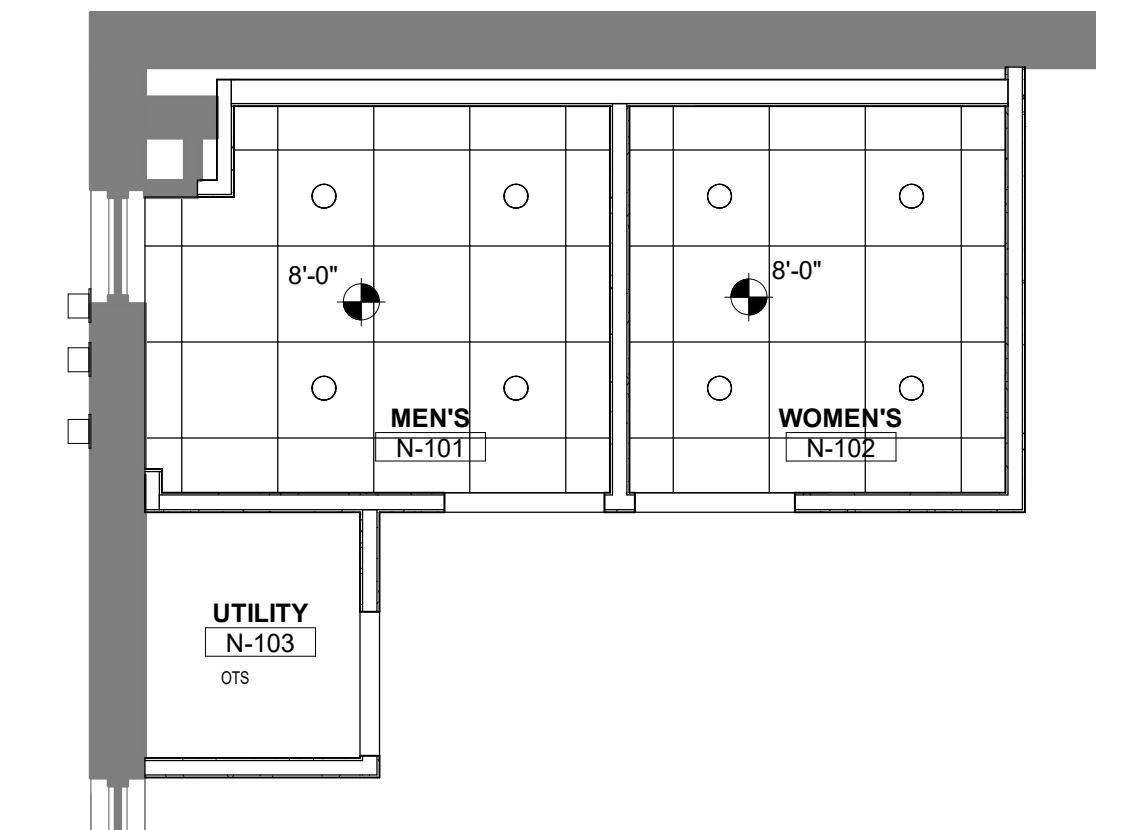
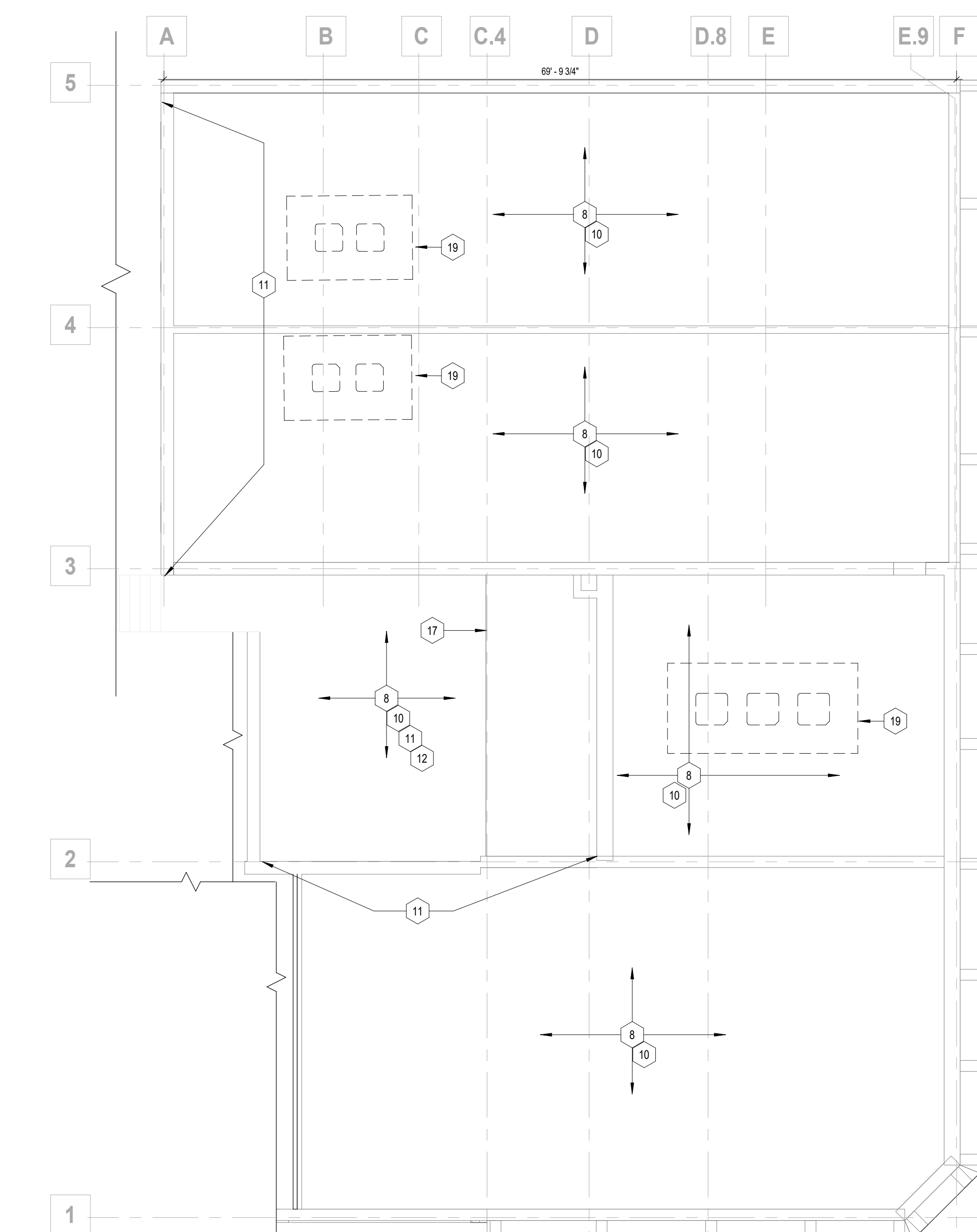
ISSUE DATE: APRIL 21, 2022  
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STRUCTURAL ELEVATIONS AND SECTIONS



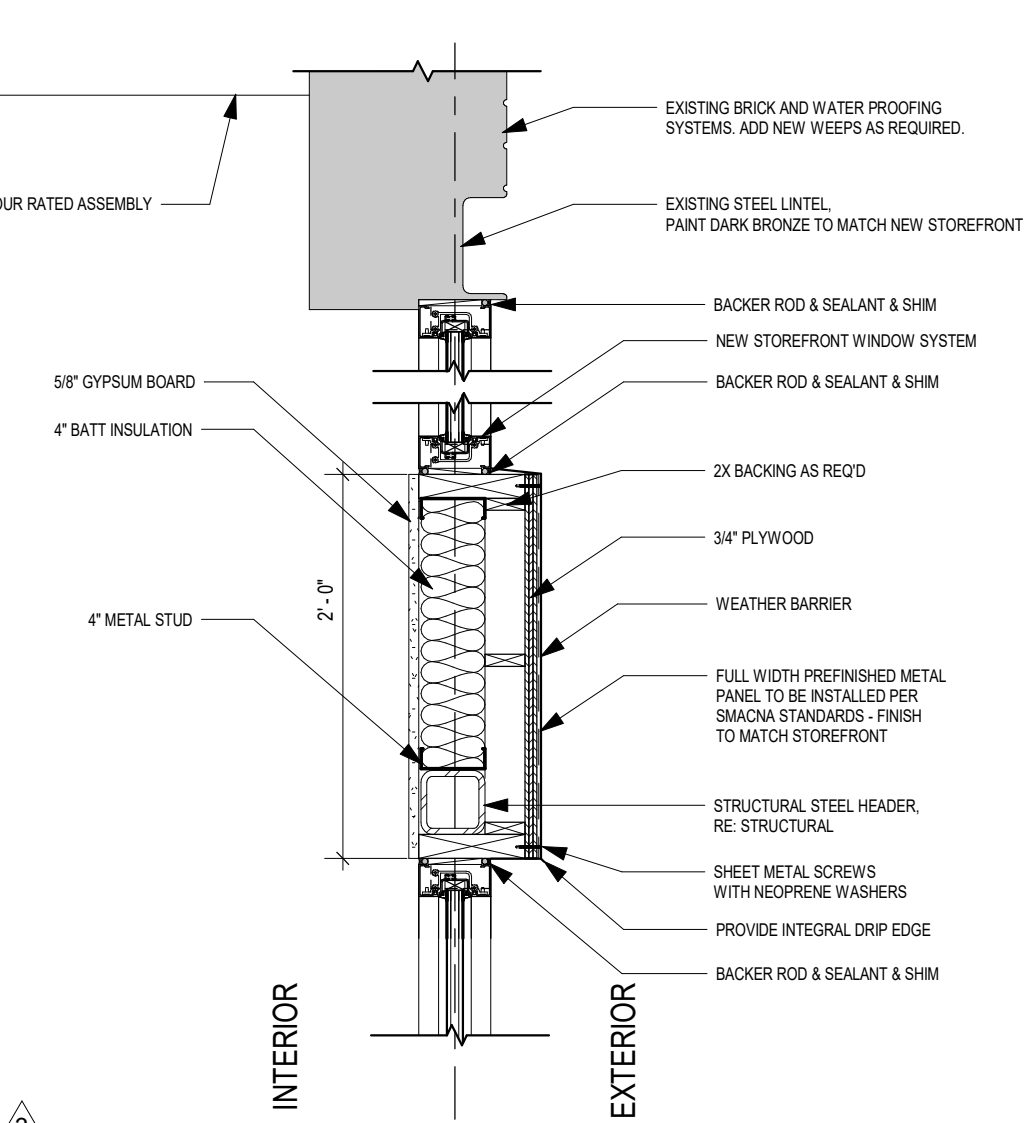
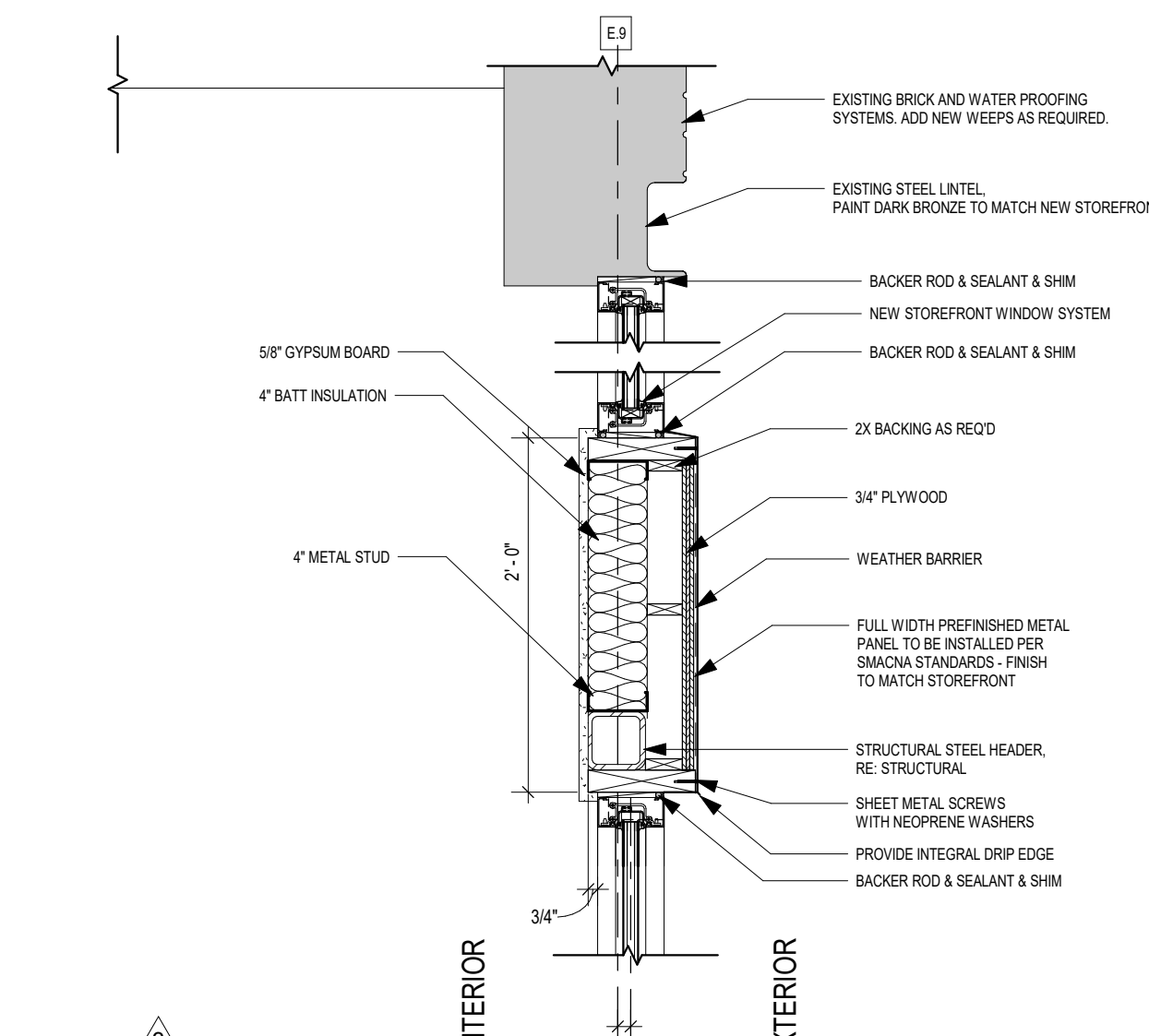
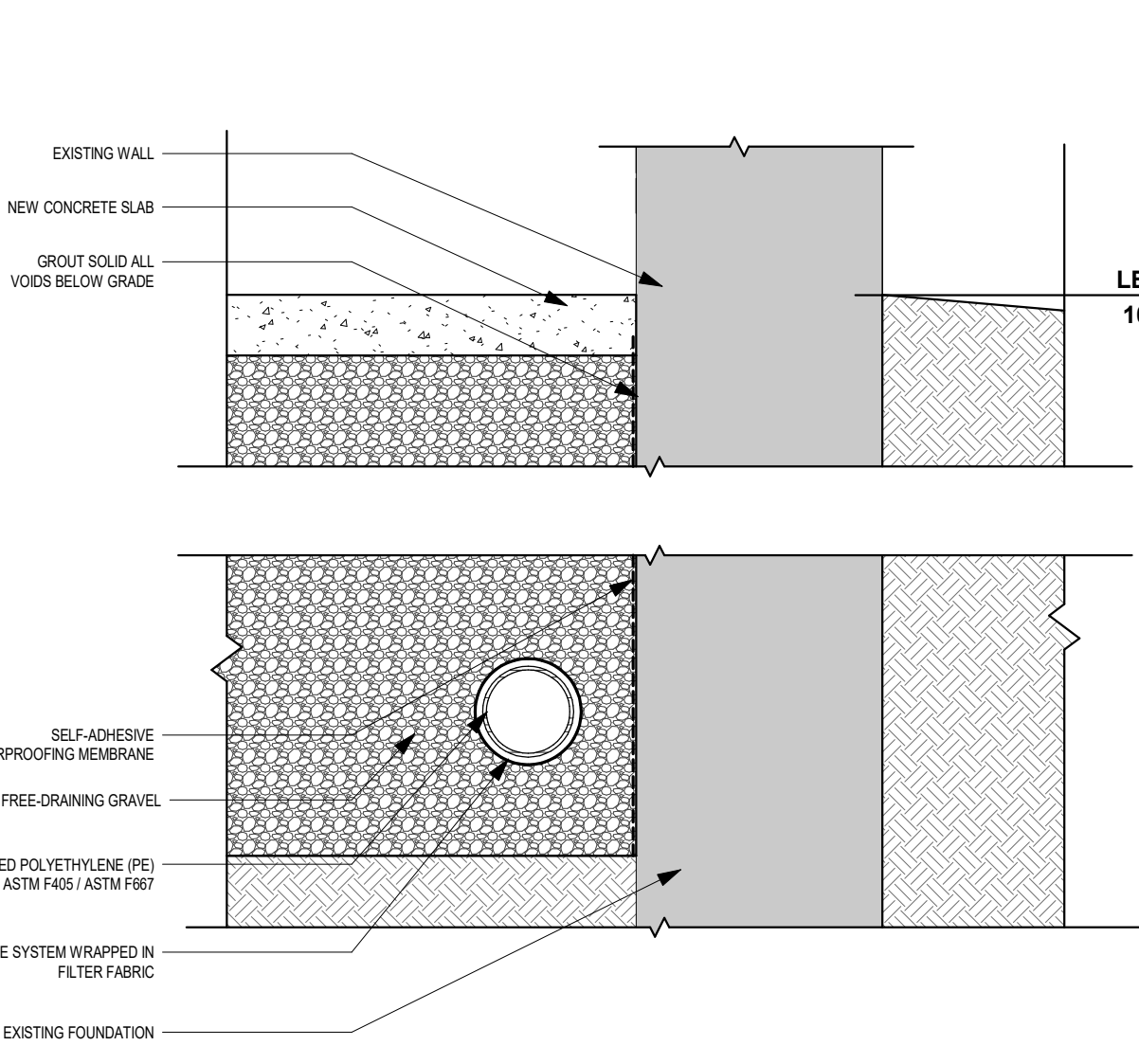
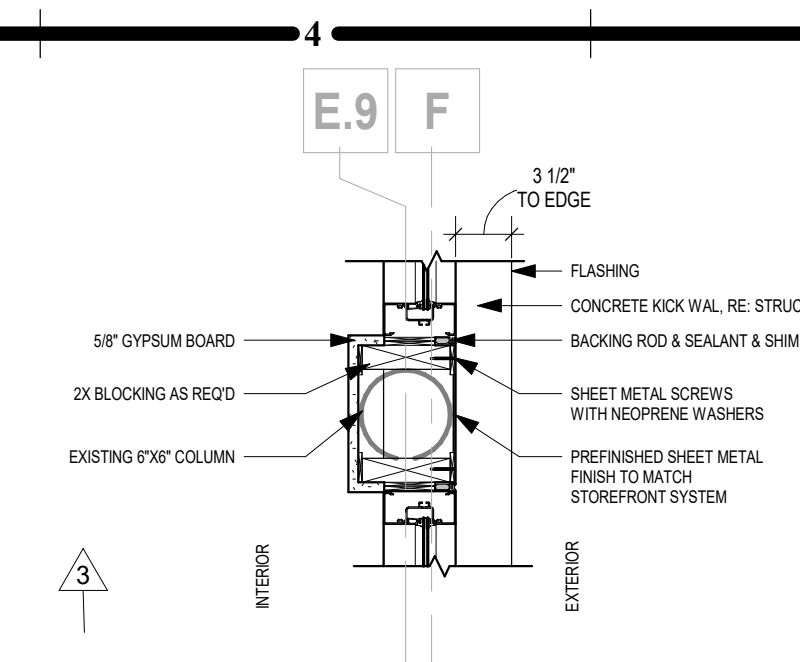
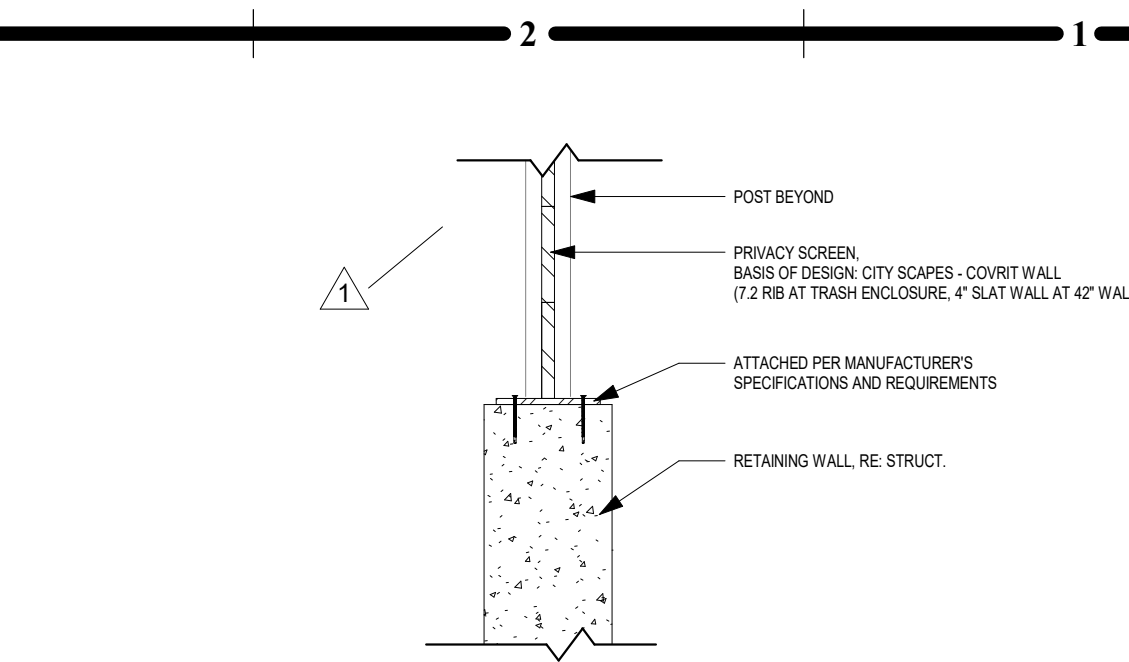
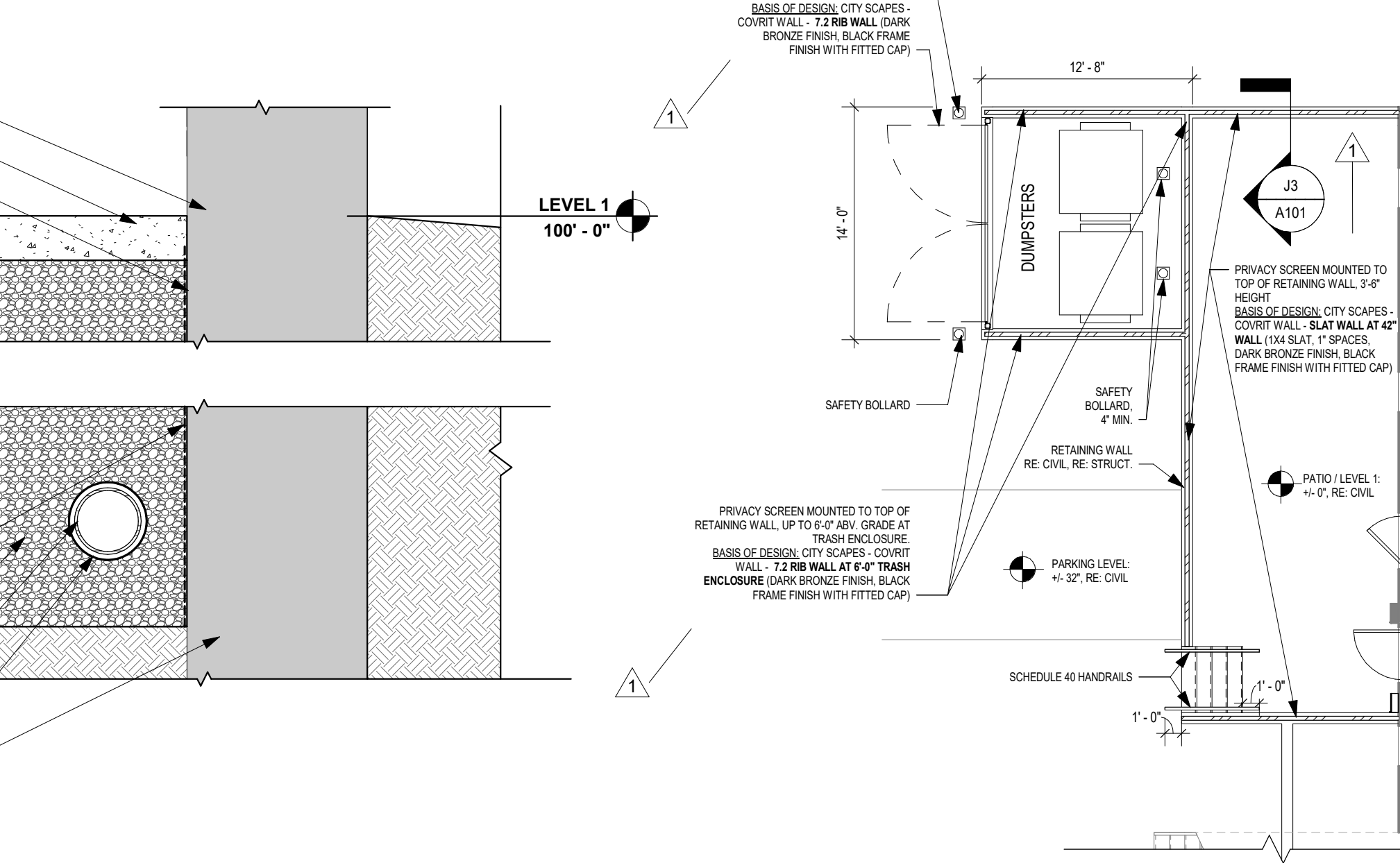
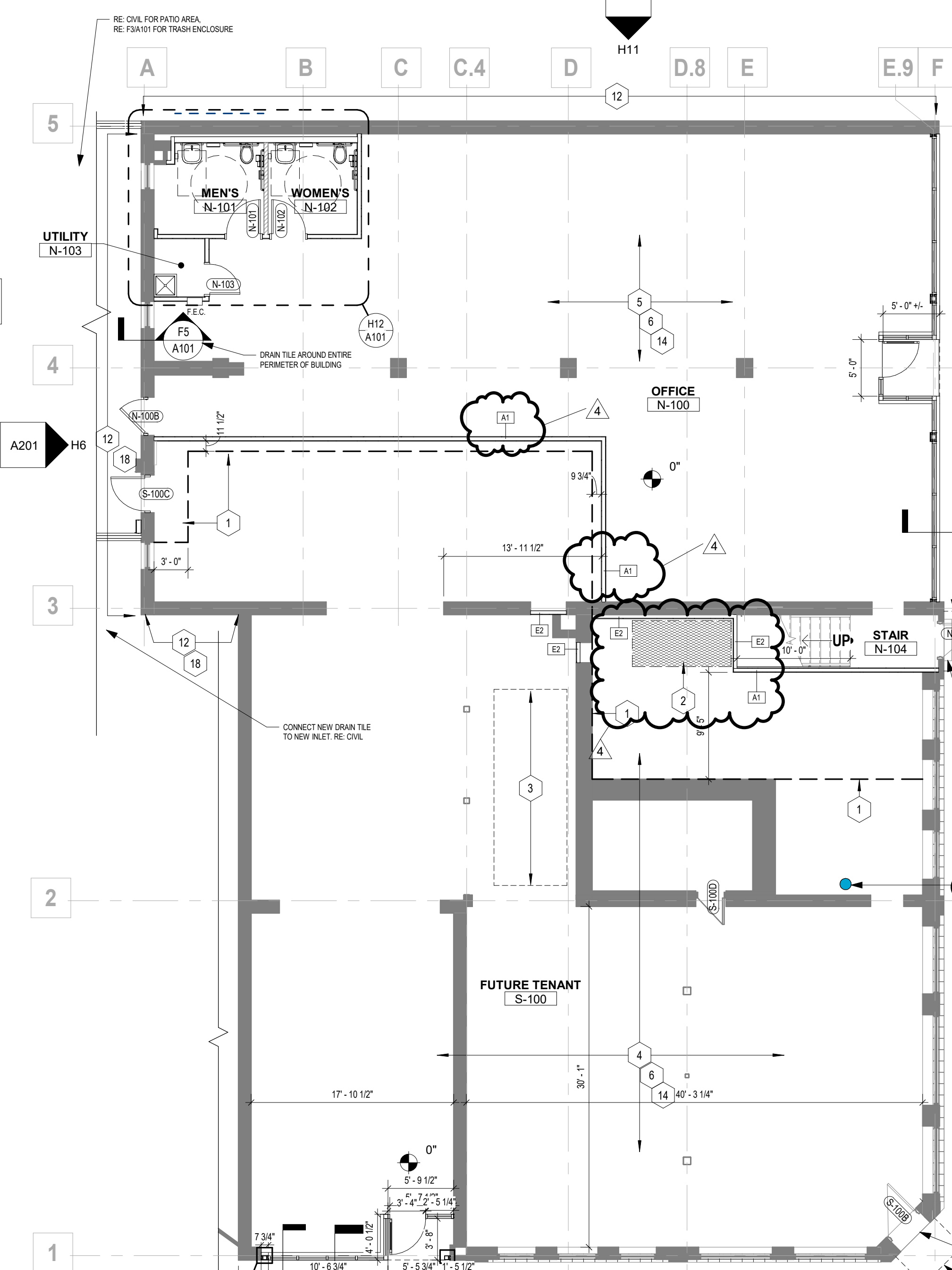
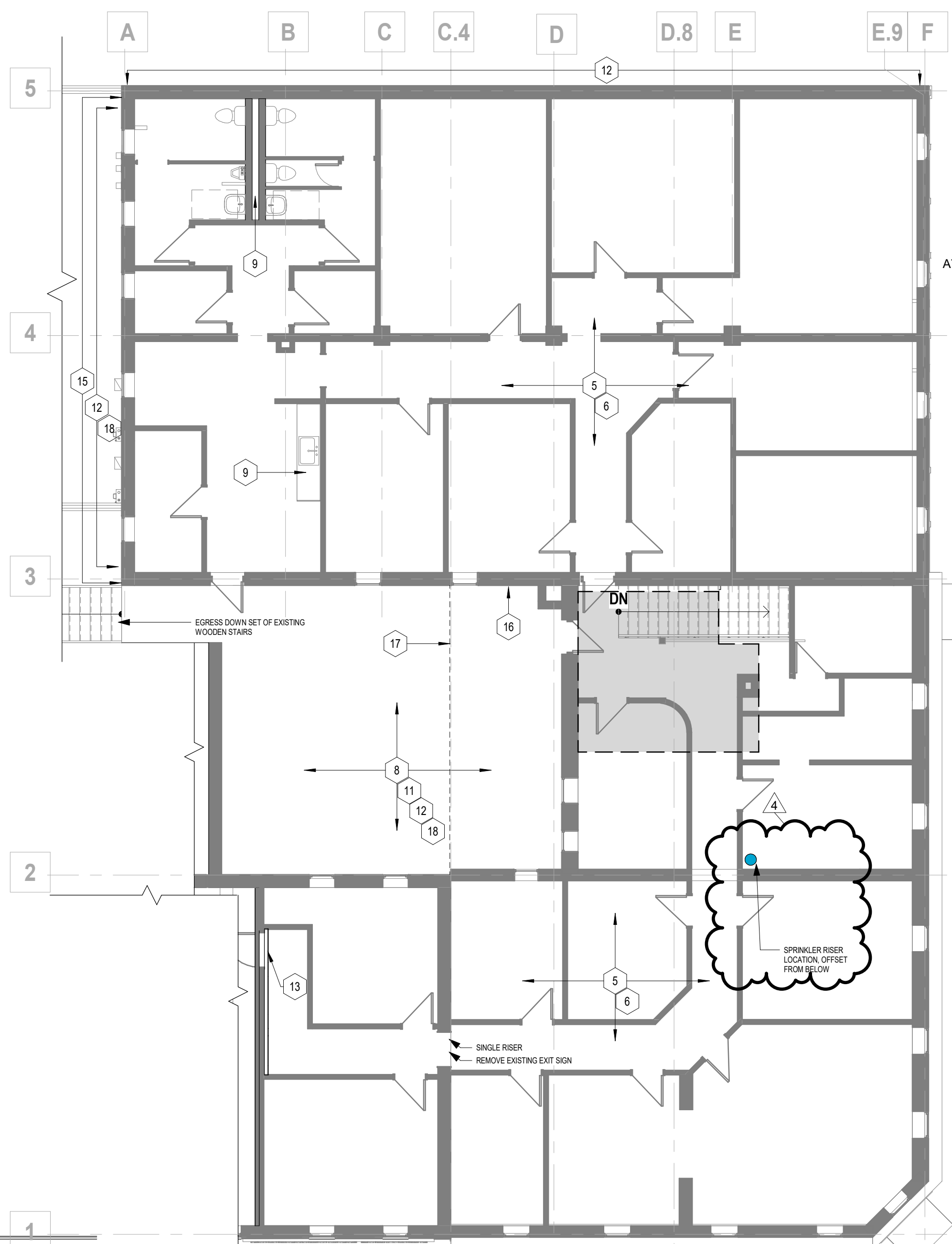


**H12** ENLARGED PLAN - 1ST FLOOR  
1/4" = 1'-0"**F12** RCP - 1ST FLOOR  
1/4" = 1'-0"**A12** ROOF PLAN  
1/8" = 1'-0"

ACCESSORY SCHEDULE						
TYPE MARK	MANUFACTURER	DESCRIPTION	MODEL	WxHxD	FINISH	COMMENTS
1	BOBRICK WASHROOM EQUIPMENT, INC.	GRAB BAR, 1-1/4" DIA., SS, 42"	B-5806-42	1-1/4" DIA x 42"	SATIN W/ PEENED GRIP	1
2	BOBRICK WASHROOM EQUIPMENT, INC.	GRAB BAR, 1-1/4" DIA., SS, 36"	B-5806-36	1-1/4" DIA x 36"	SATIN W/ PEENED GRIP	1
3	BOBRICK WASHROOM EQUIPMENT, INC.	VERTICAL GRAB BAR, 1-1/4" DIA., SS, 18"	B-5806-18	1-1/4" DIA x 18"	SATIN W/ PEENED GRIP	1
4	BOBRICK WASHROOM EQUIPMENT, INC.	CLASSIC SERIES MULTI-ROLL TOILET TISSUE DISPENSER	B-2888		SATIN	1
5	BOBRICK WASHROOM EQUIPMENT, INC.	TRIMLINE SERIES SANITARY NAPKIN DISPOSAL	B-35139		SATIN	1
6	BOBRICK WASHROOM EQUIPMENT, INC.	CONTURA SERIES PAPER TOWEL DISPENSER/WASTE RECEPTACLE	B-43949		SATIN	1
7	BOBRICK WASHROOM EQUIPMENT, INC.	AUTOMATIC SOAP DISPENSER	B-2013	4 1/4" x 10 17/32" x 4 7/32"	SATIN	1
8	MIRROR - COORD. W/ OWNER			2' W x 4' H		2

**GENERAL NOTES:**  
A. ALL TOILET ACCESSORIES LOCATIONS BASED ON PLAN LAYOUT.  
B. REFER TO GO22 AND MANUFACTURERS SPECIFICATIONS FOR MOUNTING HEIGHTS.  
C. COORDINATE ALL MOUNTING HEIGHTS W/ PLUMBING FIXTURES TO ALLOW PROPER OPERATION & INFORM ARCHITECT IN WRITING OF ANY CONFLICTS.  
D. FOR ANY ITEM NOTED AS FF&E, G.C. TO COORDINATE DIRECTLY W/ OWNER FOR PREFERRED MOUNTING HEIGHTS, U.N.O.

**REMARKS:**  
1. SURFACE-MOUNTED.  
2. MIRRORS TO BE CENTERED AT SINKS, TYP.

**F10** SECTION DETAIL - NEW STOREFRONT - SOUTH  
1" = 1'-0"**F8** SECTION DETAIL - NEW STOREFRONT - EAST  
1" = 1'-0"**F5** SECTION DETAIL - DRAIN TILE SYSTEM  
1" = 1'-0"**J4** PLAN DETAIL - NEW STOREFRONT - COLUMN - EAST  
1" = 1'-0"**J3** PRIVACY SCREEN ATTACHMENT  
1" = 1'-0"**F3** ENLARGED PLAN - TRASH ENCLOSURE  
1/8" = 1'-0"**A4** 1ST FLOOR PLAN  
1/8" = 1'-0"**A8** 2ND FLOOR PLAN  
1/8" = 1'-0"**GENERAL NOTES:  
FLOOR PLANS**

1. RE: GENERAL ARCHITECTURAL SHEETS FOR ADDITIONAL NOTES AND DETAILS THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0".
3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD WALL (F00), FACE OF MASONRY (F0M), FACE OF CONCRETE WALLS (F0C), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PER WALL TYPES SEE GENERAL SHEETS.
5. 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 FULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL OR OTHER PROTRUDING OBJECTS.
6. ALL ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
7. PROVIDE FINISH LEVELS AS DESCRIBED:  
LEVELS:  
- ALL WALLS TO BE BROUGHT UP TO LEVEL 4 FINISH.  
- AREAS FOR BACK OF HOUSE EMPLOYEE OPERATIONS WHERE ROOM SIDE WALLS AND/OR CEILINGS HAVE PAINTED SURFACES.  
CONCESSION AND CIRCULATION CORRIDORS WHERE ROOM SIDE WALLS AND/OR CEILINGS HAVE PAINTED SURFACES.
8. RE: FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
9. STAIR ENCLOSURES, SHAFT WALLS, EXIT PASSAGEWAYS AND EXTERIOR WALLS TO BE COORDINATED FOR PHASE OF WORK PER MATRIX AND PROJECT SCOPING.
10. MAINTAIN AND PROTECT EXISTING EXPANSION JOINTS DURING CONSTRUCTION. PATCH/REPAIR AS REQUIRED TO MATCH EXISTING RATINGS AS REQUIRED ON THE SHELL PORTION OF PROJECT.
11. 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.
12. DRAIN TILE DETAIL, PER IRC 2018, PERFORATED POLYETHYLENE (PE) PLASTIC PIPE, SMOOTH WALL, WRAPPED IN FILTER FABRIC.
13. FLUID APPLIED BARRIER AT FOUNDATION:  
BASIS OF DESIGN: W.R. MENDON, SEALTIGHT - HYDRAULIC 835 SL #709-A.  
SUBMITTAL REQUIRED - SUBMIT TO ARCHITECT.
14. GUARDRAILS - GUARDRAILS SHALL BE DESIGNED TO RESIST A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT IN ACCORDANCE WITH SECTION 4.5.1.1 OF ASCE 7. GUARDRAILS SHALL BE DESIGNED TO RESIST A CONCENTRATED LOAD OF 200 POUNDS IN ACCORDANCE WITH SECTION 4.5.1.1 OF ASCE 7.

**FLOOR PLAN KEYED  
NOTES**

- | MARK | DESCRIPTION  |
|------|--|
| 1    | EXTENTS OF NEW CONCRETE SLAB. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.  |
| 2    | UNDERSIDE OF STAIR TO RECEIVE 1-HR RATING ON UNDERSIDE OF STRINGER TO MAINTAIN CONTINUOUS RATING OF FLOOR/CEILING/WALL ASSEMBLY. MUST MAINTAIN THE 2-HOUR HORIZONTAL RATING OF THE CEILING PLANE.  |
| 3    | REMOVE LOCATION OF RESTROOM CORRIDOR. REFER TO MEP DOCUMENTS FOR ADDITIONAL INFORMATION.   |
| 4    | ENTIRE CEILING TO RECEIVE A 2-HOUR RATING TO SEPARATE FROM FLOOR ABOVE. REFER TO UL ASSEMBLY #L511 (G506).   |
| 5    | CEILING TO REMAIN. PATCH REPAIR AS REQUIRED.   |
| 6    | ALL PLASTER OR GYPSUM BOARD WALLS TO BE PREPARED TO A LEVEL 4 FINISH.  |
| 7    | REMOVE WINDOW AND PREPARE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.   |
| 8    | ANY ROOF MODIFICATIONS TO BE COMPLETED BY JR & CO. COORDINATE WITH BUILDING OWNER. ALL DEBRIS TO BE REMOVED AND ROOFING SYSTEM TO HAVE POSITIVE SLOPE AWAY FROM BUILDING TO GUTTER SYSTEM. ENTIRE ROOF TO BE REVIEWED FOR REPAIRS. PROVIDE COMPLETE ANALYSIS TO OWNER FOR REVIEW.                    |
| 9    | RECONNECT SANITARY AND WATER AS REQUIRED FOR FUNCTIONAL PLUMBING. REFER TO MEP DOCUMENTS FOR ADDITIONAL INFORMATION.   |
| 10   | REMOVE ALL DEBRIS FROM EXISTING ROOF. REPAIR ROOF TO ELIMINATE ANY PONDING AND PROVIDE POSITIVE DRAINAGE.  |
| 11   | REPAIR ALL GUTTER SYSTEMS AND CONFIRM TO BE IN GOOD WORKING ORDER AND FREE OF DEBRIS. CONFIRM ALL SEAMS ARE WATERTIGHT AND ALL FLASHINGS TO AND AROUND GUTTER SYSTEM ARE IN GOOD WORKING ORDER. ALL GUTTERS AND DOWNSPOUTS TO BE SECURE TO THE BUILDING AND HAVE POSITIVE SLOPE FOR PROPER DRAINAGE. |
| 12   | PATCH/REPAIR STUCCO SYSTEM AND MAKE READY FOR NEW EXTERIOR PAINT.  |
| 13   | INFILL EXISTING OPENING. PATCH/REPAIR AS REQUIRED. PAINT TO MATCH ADJACENT FINISH.   |
| 14   | DRAIN TILE - PROVIDE 6" PERFORATED, SLEEVED DRAIN TILE AROUND ENTIRE PERIMETER AND ALONG ALL FOUNDATION WALLS. COLLECT AND CONNECT INTO STORM SEWER. REFER TO CIVIL FOR ADDITIONAL INFORMATION.  |
| 15   | INFILL OPEN STUD CAVITY WITH SIMILAR MATERIALS. PROVIDE SCRATCH AND FINISH COATS TO MATCH EXISTING. PREPARE FOR NEW PAINT FINISH.  |
| 16   | INFILL OPENING IN MASONRY. MATCH EXISTING.   |
| 17   | EXISTING OVERHANG TO REMAIN. PAINT SOFFIT SW 7007 CEILING BRIGHT WHITE.  |
| 18   | STUCCO TO MATCH PRIMARY PAINT COLOR.   |
| 19   | NEW RTU CURBS AND OPENINGS. COORDINATE EXACT LOCATIONS WITH MEP/STRUCTURAL DOCUMENTS.  |

**FLOOR PLANS, ENLARGED PLANS,  
AND DETAILS****MAIN STREET BUILDING IMPROVEMENTS**

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- |   |                 |          |
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| 1 | City Comments   | 5/17/22  |
| 3 | Owner Revisions | 9/12/22  |
| 4 | Owner Revisions | 12/08/22 |



PROFESSIONAL SEAL

**A101**  
ISSUE DATE: 21 APRIL, 2022  
COLLINS WEBB #: 21121

04/21/22

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## GENERAL NOTES EXTERIOR ELEVATIONS:

1. RE. SHEET G0.01 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF MTL. STUD WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
3. RE. THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
4. **BRICK REPAIR** - REFER TO SPECIFICATIONS FOR BRICK REPAIR. ALL MASONRY CONTRACTOR TO REVIEW ALL ELEVATIONS FOR REPAIR/REPLACEMENT AS REQUIRED.
5. **JOINT SEALANTS** - REFER TO SPECIFICATIONS FOR JOINT SEALANT REPAIR. REMOVE/REPLACE REPAIR ALL JOINT SEALANTS ON THE BUILDING. PROVIDE 1/2" BACK ROD BEHIND SEALANTS BETWEEN ALL DISSIMILAR MATERIALS. COLOR TO MATCH ADJACENT MATERIALS.
6. CONTRACTOR SHALL FOLLOW STUCCO REPAIR AS OUTLINED WITHIN STO RESTORATION DETAIL SERIES. DETAIL MANUAL, IF CONTRACTOR USES ALTERNATE OR SUBSTITUTED MANUFACTURER, A SUBMITTAL SHALL BE PROVIDED CONTAINING SIMILAR DETAIL INFORMATION FOR ARCHITECT'S APPROVAL.
7. **EXTERIOR BRICK, STEEL, AND WOOD PAINT** - BASIS OF DESIGN: SHERWIN WILLIAMS - PRO INDUSTRIAL - PRE-CATALYZED WATERBASED URETHANE 865-1100 SERIES.
8. ALL OPENINGS TO BE FIELD VERIFIED PRIOR TO SHOP DRAWINGS BEING SUBMITTED FOR REVIEW AND APPROVAL.

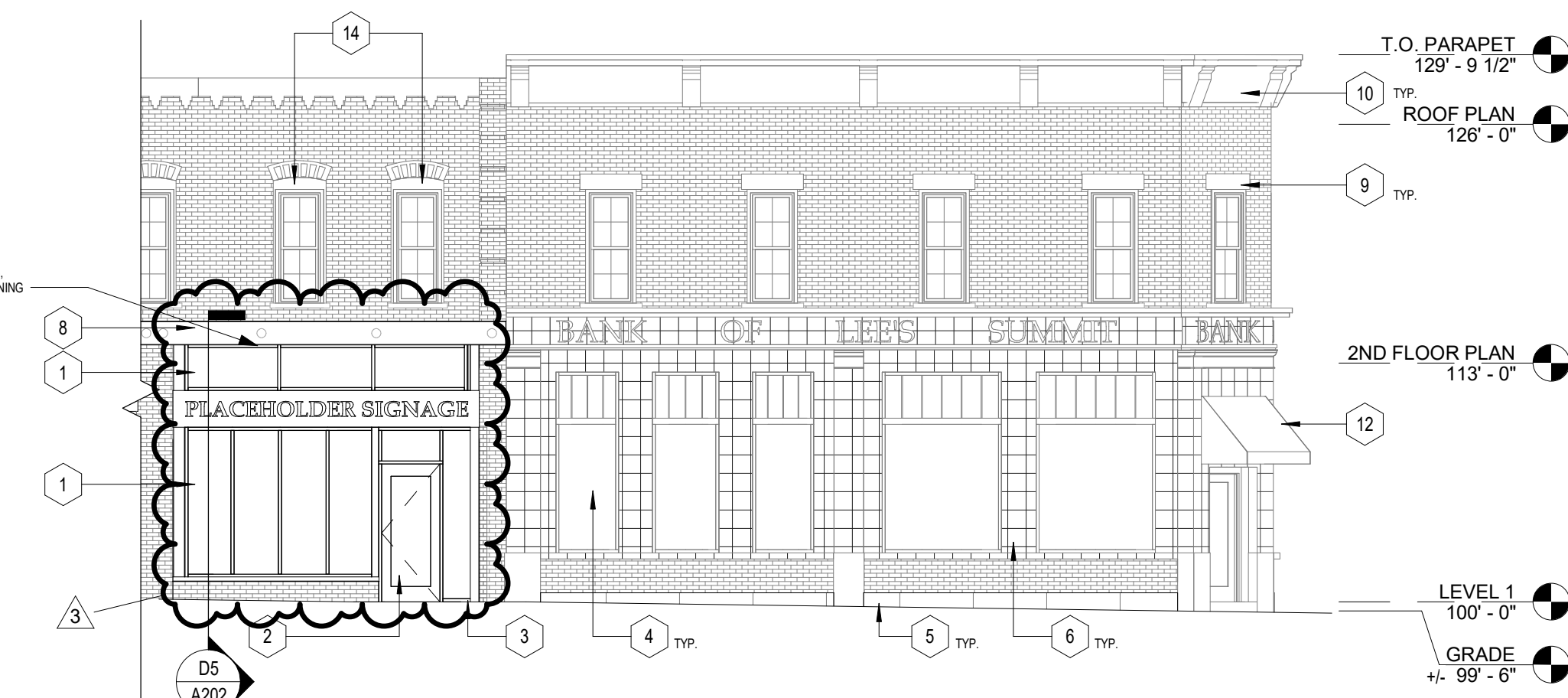
## EXTERIOR ELEVATION KEYED NOTES

- | MARK | DESCRIPTION   |
|------|---|
| 1    | <b>STOREFRONT SYSTEM</b> - BASIS OF DESIGN IS KAWNEER 450T FRAMING SYSTEM. GLAZING TO BE FRONT GLAZED.  |
| 2    | <b>SILL FLASHINGS</b> - COLOR TO BE DARK ALUMINUM TO MATCH STOREFRONT.  |
| 3    | <b>BRICK</b> - REPLACE ALL MISSING BRICK AND DAMAGED BRICK. COLOR TO MATCH EXISTING. TUCK POINT AS REQUIRED. PROVIDE BACKER ROD & SEALANT BETWEEN DISSIMILAR MATERIALS. TYP. RE. SPECIFICATIONS.  |
| 4    | <b>WOOD WINDOWS</b> - REMOVE ALL LOOSE PAINT. PATCH/REPAIR/CAULK AS REQUIRED. PREPARE FOR NEW PAINT.  |
| 5    | <b>CAST STONE</b> - TO BE RE-SET AND LEVELED. RE-GROUT AS REQUIRED.   |
| 6    | <b>GLAZED TILE</b> - CLEAN AND TUCK-POINT.  |
| 7    | <b>WOOD DOOR</b> - SAND AND REPAINT ENTRY DOOR AND FRAME. COLOR DARK BRONZE TO MATCH NEW WINDOW SYSTEM.   |
| 8    | <b>STEEL LINTEL</b> - REMOVE ALL LOOSE MATERIAL AND REPAINT.  |
| 9    | <b>ALUMINUM WINDOWS / WINDOW HEAD DETAIL</b> - ALUMINUM WINDOWS AT SECOND LEVEL EXISTING TO REMAIN. REMOVE ALL LOOSE MATERIAL. REPAIR CAST STONE HEADER AS REQUIRED AND REPAINT.  |
| 10   | <b>TOP OF WALL DETAIL</b> - REMOVE ALL LOOSE MATERIAL AND REPAINT. REPAIR AS REQUIRED AND REFLASH TOP OF WALL AS NEEDED TO MAKE A WATER TIGHT SYSTEM. PREPARE FOR NEW FINISH.   |
| 11   | REMOVE EXISTING WEATHERHOOD ABOVE EXTERIOR DOOR. 14"x14" OF EXISTING OPENING ABOVE DOOR TO REMAIN FOR NEW INTAKE LOUVER. INFILL REMAINDER OF EXISTING OPENING WITH SUB-FRAMING, SHEATHING, AND FINISH MATERIAL TO MATCH EXISTING. RE-MEP. REPLACE EXISTING DOOR WITH NEW HOLLOW METAL DOOR. |
| 12   | <b>EXISTING AWNINGS</b> - RE-ATTACH EXISTING AWNINGS TO BUILDING. NEW FABRIC ON AWNINGS TO MATCH SW #7625 MOUNT ETNA.   |
| 13   | INSTALL NEW TEMPERED GLAZING AS REQUIRED.   |
| 14   | REPLACE WOOD TRIM AT PERIMETER OF WINDOW WITH EXTERIOR/PAINT-GRADE LUMBER. MATCH EXISTING LUMBER SIZES. PAINT.  |
| 15   | EXHAUST WALL CAPS. RE. MECH. PAINT TO MATCH WALL.   |
| 16   | LOUVERS, RE. MECH. PAINT TO MATCH WALL.   |
| 17   | ELEC. METER. RE. ELEC.  |
| 18   | WALL PACK. RE. ELEC.  |

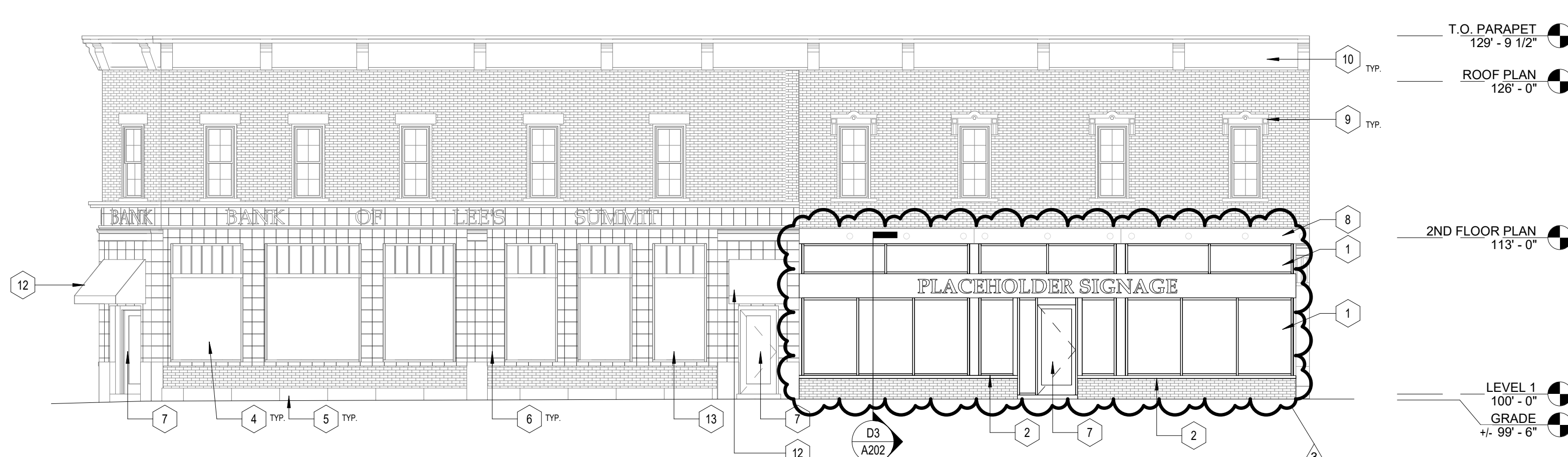
## EXTERIOR ELEVATION COLOR LEGEND

- |  |   |
|--|---|
|  | <b>PRIMARY COLOR:</b><br>SW #7594 CARRIAGE DOOR       |
|  | <b>ACCENT COLOR 1:</b><br>SW #7625 MOUNT ETNA         |
|  | <b>ACCENT COLOR 2:</b><br>SW #7675 SEALSKIN           |
|  | <b>ACCENT COLOR 3:</b><br>SW #0009 EASTLAKE GOLD      |
|  | <b>EXISTING GLAZED TILE TO REMAIN. RE. KEYNOTE #6</b> |

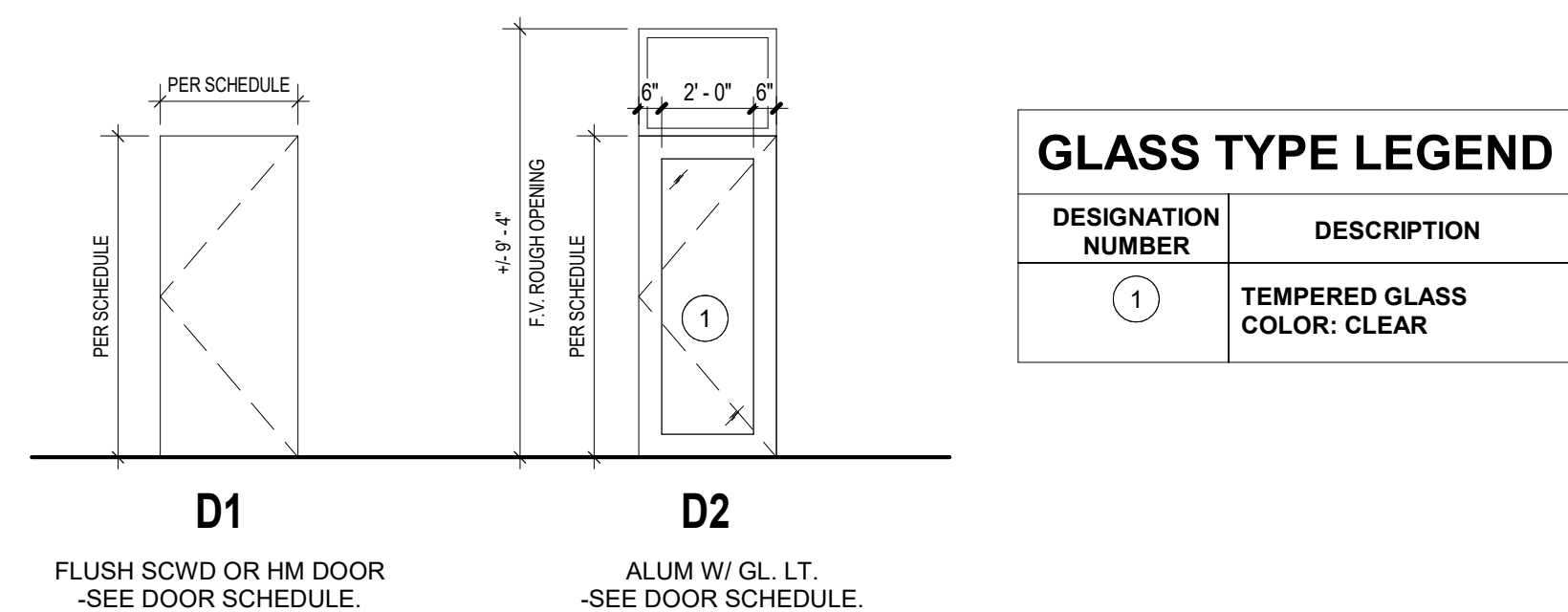
H11 NORTH ELEVATION  
1/8" = 1'-0"



H6 WEST ELEVATION  
1/8" = 1'-0"



F11 SOUTH ELEVATION  
1/8" = 1'-0"



**NOTE:**  
1. DOORS TO BE 1 3/4" THICK, UNLESS NOTED OTHERWISE ON DOOR SCHEDULE.

DOOR SCHEDULE									
DOOR #	WIDTH	HEIGHT	ROOM NAME	DOOR		FRAME		RTG	REMARKS
				TYPE	MATERIAL	FINISH	MATERIAL	FINISH	
N-100B	3'-0"	7'-0"	OFFICE	D2	ALUM/GLASS		ALUM		1, 3, 4, 5, 6, 7
N-101	3'-0"	7'-0"	MEN'S	D1	SCWD	PAINT	HM	PAINT	1, 3, 4, 6
N-102	3'-0"	7'-0"	WOMEN'S	D1	SCWD	PAINT	HM	PAINT	1, 3, 4, 6
N-103	2'-8"	7'-0"	UTILITY	D1	SCWD	PAINT	HM	PAINT	3, 4
N-104	EXIST	EXIST	STAIR	EXIST	EXIST	PAINT	EXIST	PAINT	1, 2, 3
S-100B	EXIST	EXIST	FUTURE TENANT	EXIST	EXIST	PAINT	EXIST	PAINT	1, 2, 3
S-100C	3'-0"	7'-0"	FUTURE TENANT	D1	HM	PAINT	HM	PAINT	1, 3, 4, 6
S-100D	EXIST	EXIST	FUTURE TENANT	EXIST	EXIST	EXIST	EXIST	EXIST	2, 3

**DOOR SCHEDULE REMARKS:**  
1. MATCH EXISTING MASTER KEYING SYSTEM. COORDINATE WITH BUILDING OWNER.  
2. MAINTAIN EXISTING HARDWARE.  
3. PROTECT DOOR AND FRAME FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE TO BE REPAIRED/REPLACED PER OWNER DISCRETION.  
4. DOOR FRAME 2" OFF FINISHED FACE ON HINGE SIDE, U.N.O.  
5. PROVIDE PANIC HARDWARE.  
6. MANUALLY LOCKABLE FROM INSIDE OF ROOM. MASTER KEY LOCK ON OUTSIDE OF ROOM.  
7. COORDINATE HARDWARE WITH MANUFACTURER.

F6 EAST ELEVATION  
1/8" = 1'-0"



C6 SOUTH ELEVATION - COLOR  
3/16" = 1'-0"

A8 EAST ELEVATION - COLOR  
3/16" = 1'-0"

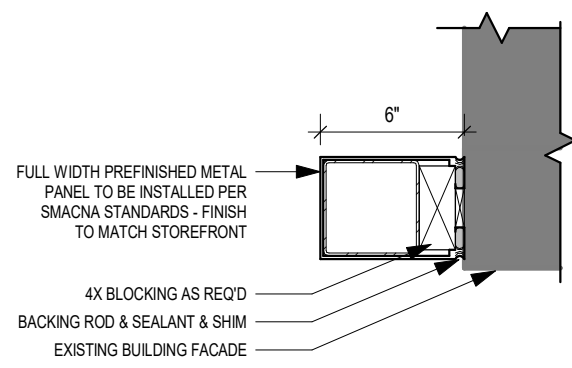


## EXTERIOR ELEVATIONS AND DOOR SCHEDULE

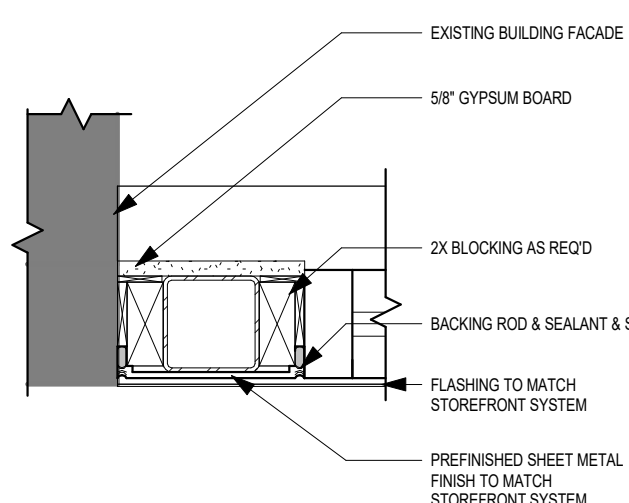


**GENERAL NOTES  
EXTERIOR ELEVATIONS:**

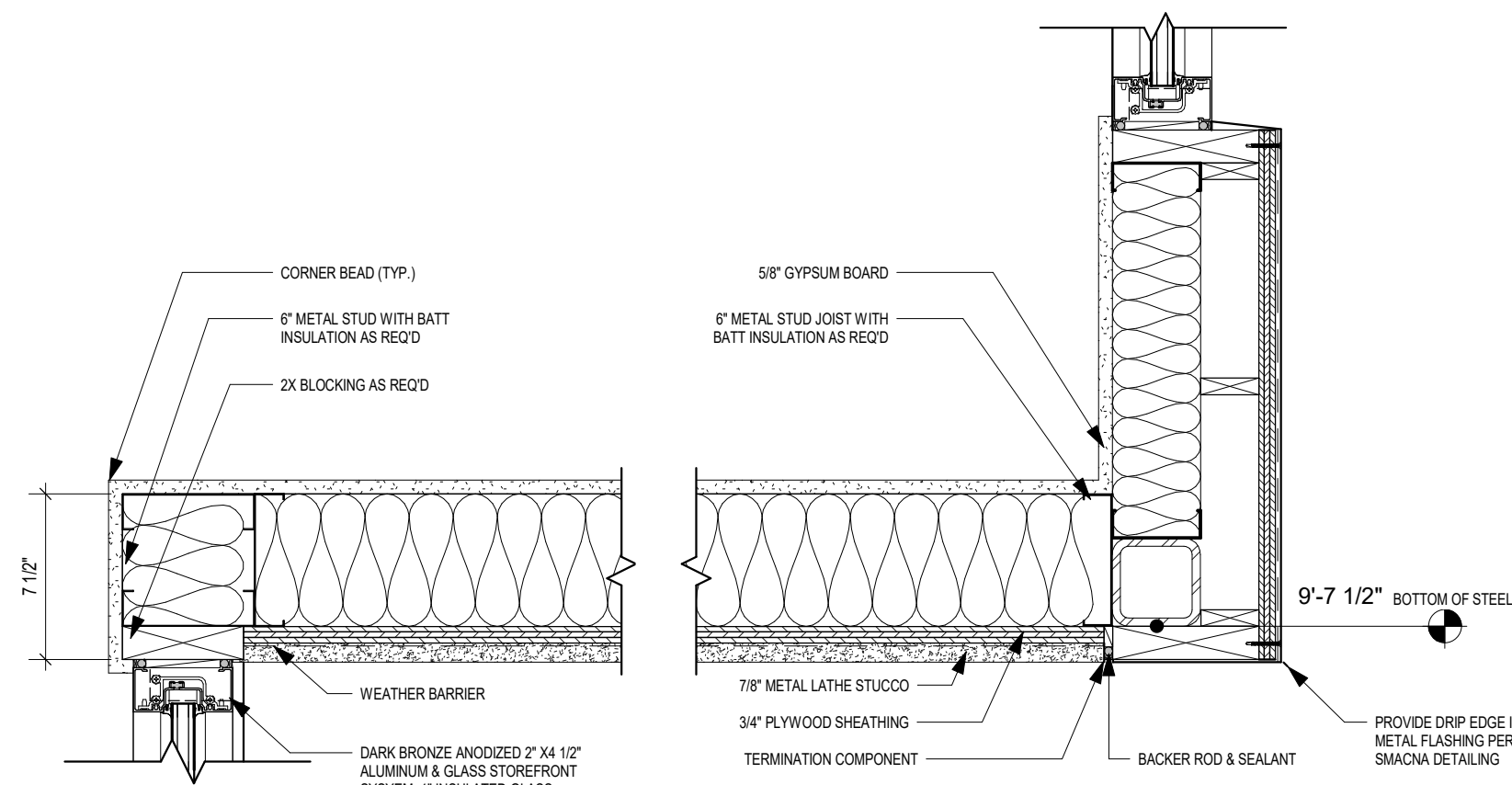
1. RE: SHEET 00.01 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
  2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF MTL. STUD WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
  3. RE: THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
  4. **BRICK REPAIR** - REFER TO SPECIFICATIONS FOR BRICK REPAIR. ALL MASONRY CONTRACTOR TO REVIEW ALL ELEVATIONS FOR REPAIR/REPLACEMENT AS REQUIRED.
  5. **JOINT SEALANTS** - REFER TO SPECIFICATIONS FOR JOINT SEALANT REPAIR. REMOVE/REPLACE/REPAIR ALL JOINT SEALANTS ON THE BUILDING. PROVIDE 1/2" BACK ROD BEHIND SEALANTS BETWEEN ALL DISSIMILAR MATERIALS. COLOR TO MATCH ADJACENT MATERIALS.
  6. CONTRACTOR SHALL FOLLOW STUCCO REPAIR AS OUTLINED WITHIN STUCCO RESTORATION DETAIL SERIES: DETAIL MANUAL. IF CONTRACTOR USES ALTERNATE OR SUBSTITUTED MANUFACTURER, A SUBMITTAL SHALL BE PROVIDED CONTAINING SIMILAR DETAIL INFORMATION FOR ARCHITECT'S APPROVAL.
  7. **EXTERIOR BRICK, STEEL, AND WOOD PAINT** - BASIS OF DESIGN: SHERWIN WILLIAMS - PRO INDUSTRIAL - PRE-CATALYZED WATERBASED URETHANE B05-1100 SERIES.
  8. ALL OPENINGS TO BE FIELD VERIFIED PRIOR TO SHOP DRAWINGS BEING SUBMITTED FOR REVIEW AND APPROVAL.
- NOTE FOR CONTRACTOR TO FOLLOW MANUFACTURER RECOMMENDATIONS AND PDS: PRODUCT DATA SHEET. PRIOR TO THE EXTERIOR URETHANE COATING APPLICATION ON BRICK, APPLY CONCRETE AND MASONRY PRIMER-SEALER (BASIS OF DESIGN: LONOX) PRODUCT AND COATS AS RECOMMENDED BY MANUFACTURER.**



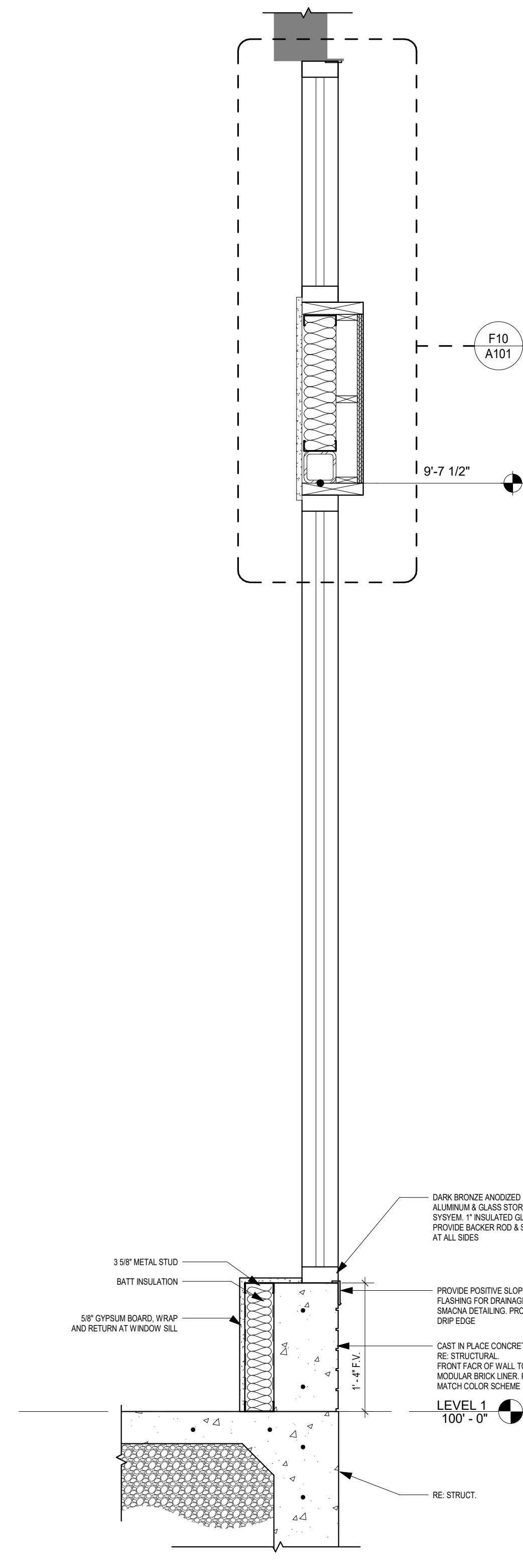
**F11** PLAN DETAIL - NEW STOREFRONT -  
COLUMN - SOUTH 2  
1 1/2" = 1'-0"



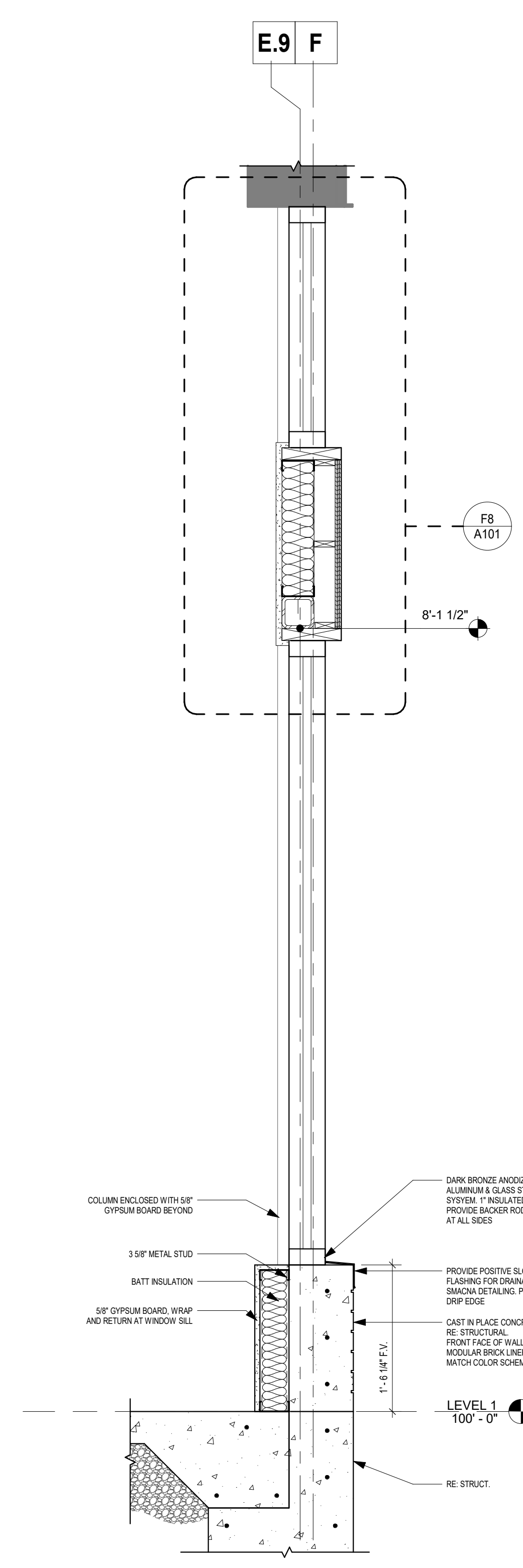
**D11** PLAN DETAIL - NEW STOREFRONT -  
COLUMN - SOUTH 1  
1 1/2" = 1'-0"



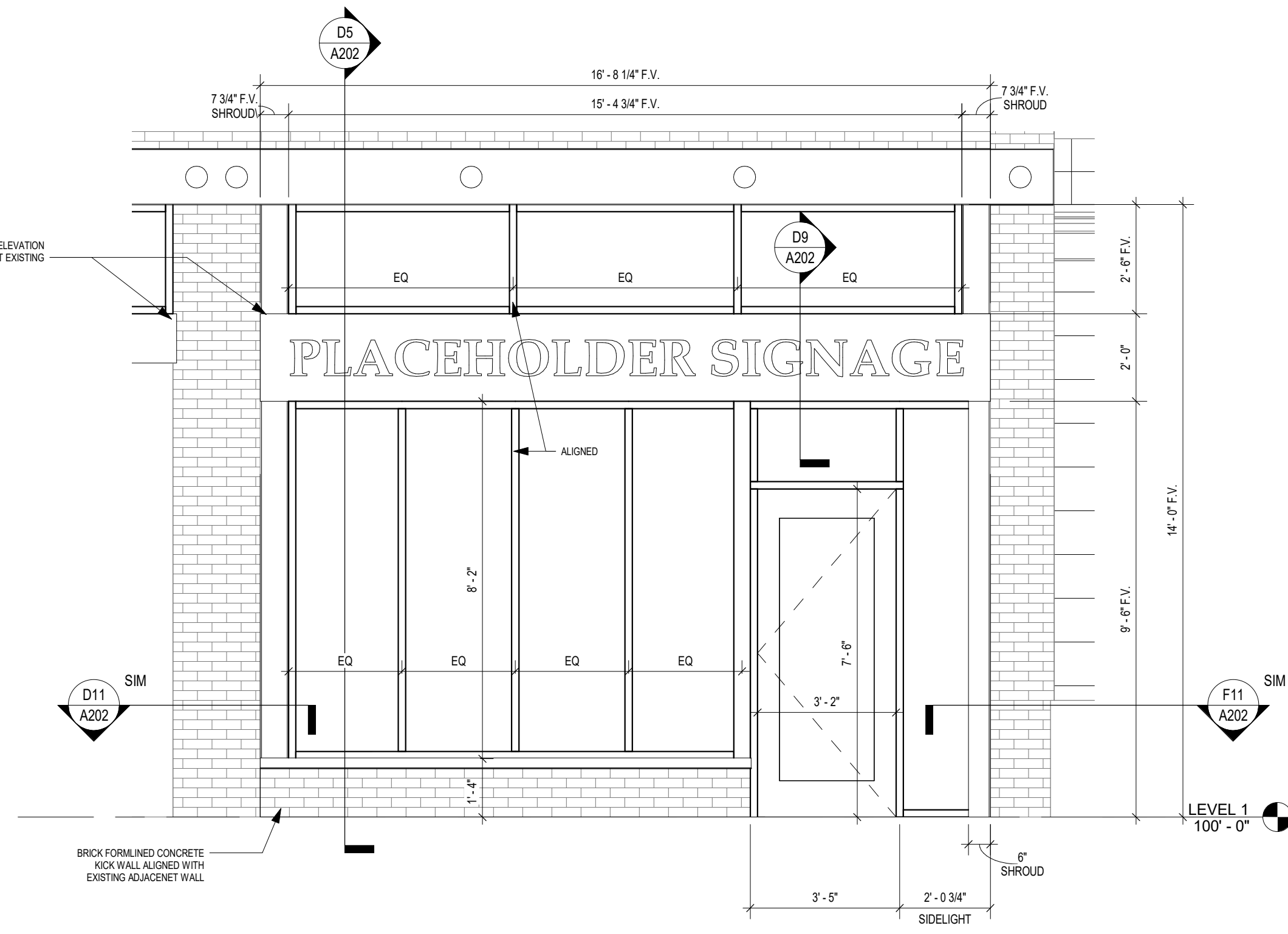
**D9** DETAIL - NEW STOREFRONT - SOFFIT  
1 1/2" = 1'-0"



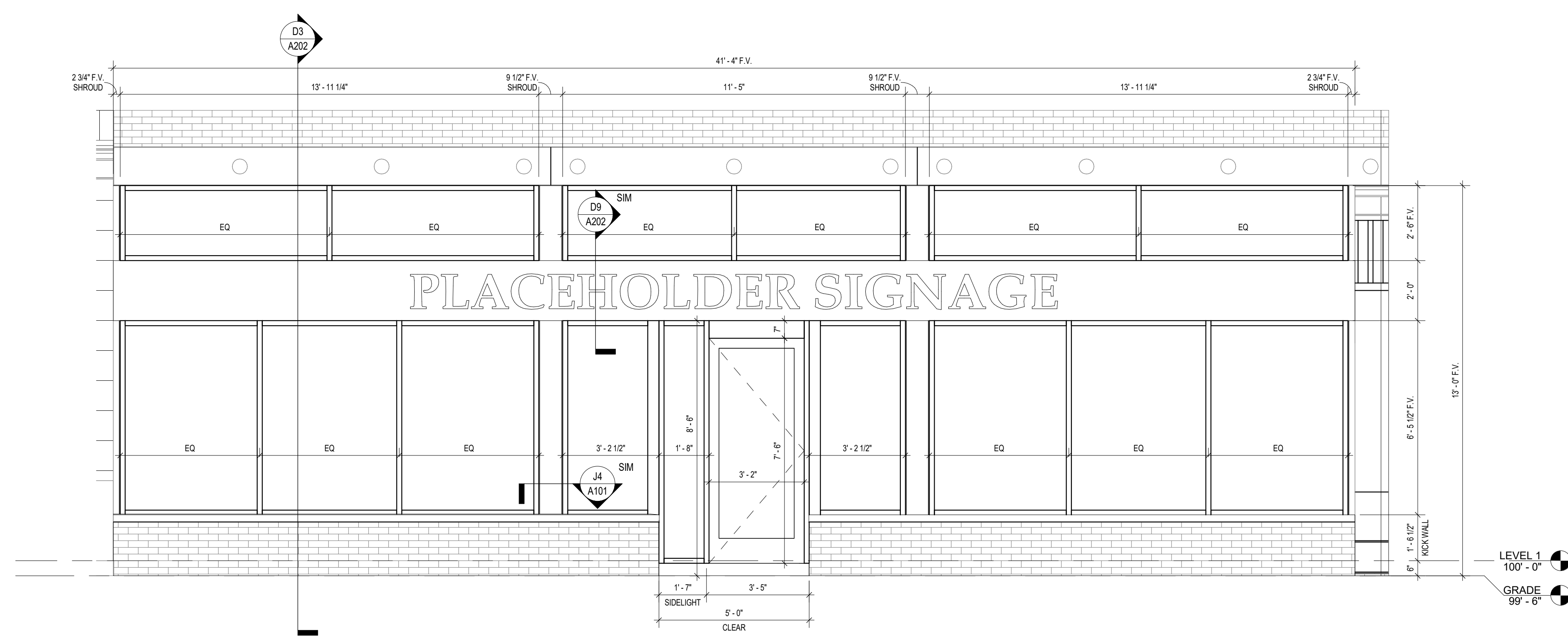
**D5** SECTION - STOREFRONT SOUTH  
1" = 1'-0"



**D3** SECTION - STOREFRONT EAST  
1" = 1'-0"



**A11** SOUTH ELEVATION - NEW STOREFRONT  
3/8" = 1'-0"



**A7** EAST ELEVATION - NEW STOREFRONT  
3/8" = 1'-0"

ENLARGED ELEVATIONS AND  
DETAILS



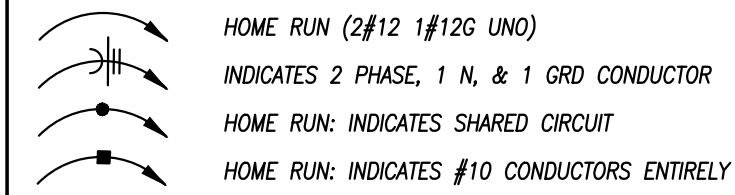
SHEET INDEX

MEP001	COVER SHEET
MEP002	THROUGH PENETRATION DETAILS
MEP101	ROOF PLAN
M011	DEMOLITION - FLOOR PLANS
M111	MECHANICAL - FLOOR PLANS
M201	MECHANICAL - SCHED./DETAILS
P011	DEMOLITION - FLOOR PLANS
P111	PLUMBING - FLOOR PLANS
P201	PLUMBING - RISER DIAGRAMS
P301	PLUMBING - SCHED./DETAILS
E011	DEMOLITION - FLOOR PLANS
E111	ELECTRICAL - FLOOR PLANS
E301	ELECTRICAL - RISER DIAGRAMS
E302	ELECTRICAL - PANELBOARD SCHEDULES
E401	ELECTRICAL - SCHED./DETAILS

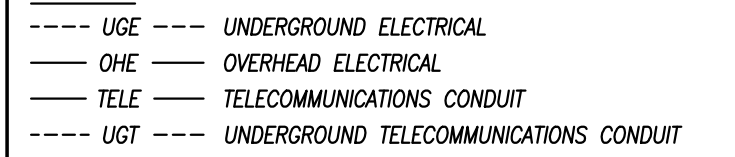
ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

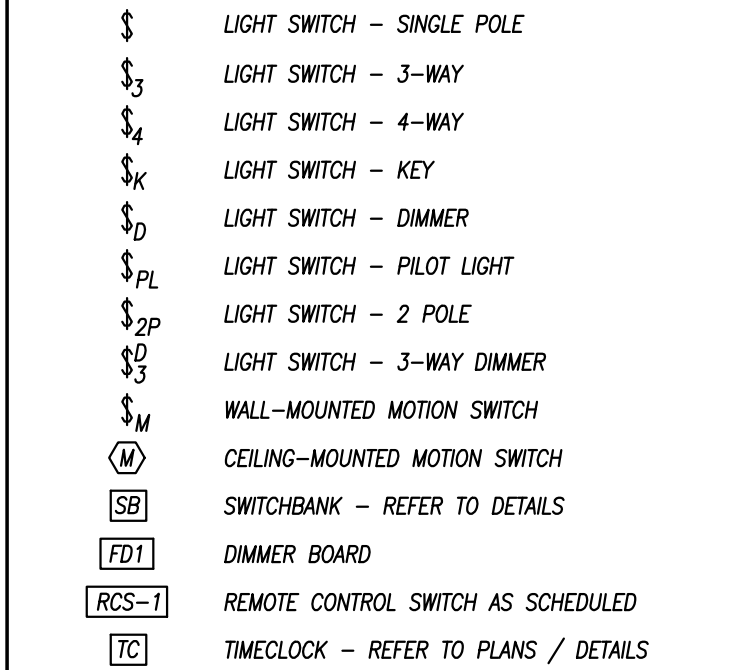
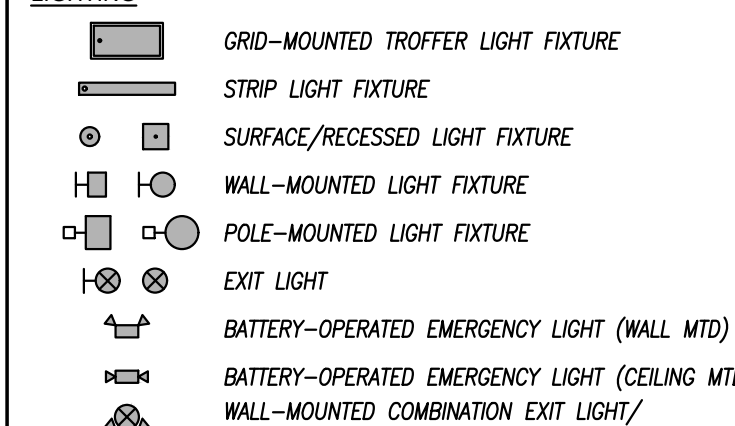
CIRCUITING



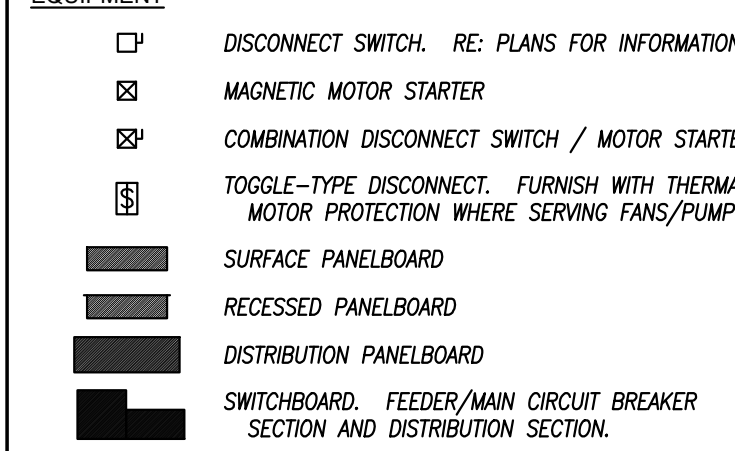
UTILITIES



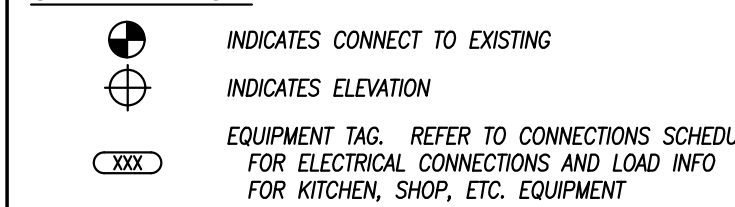
LIGHTING



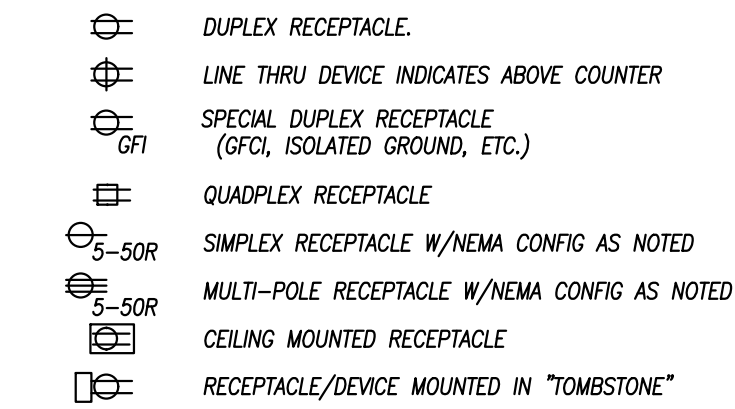
EQUIPMENT



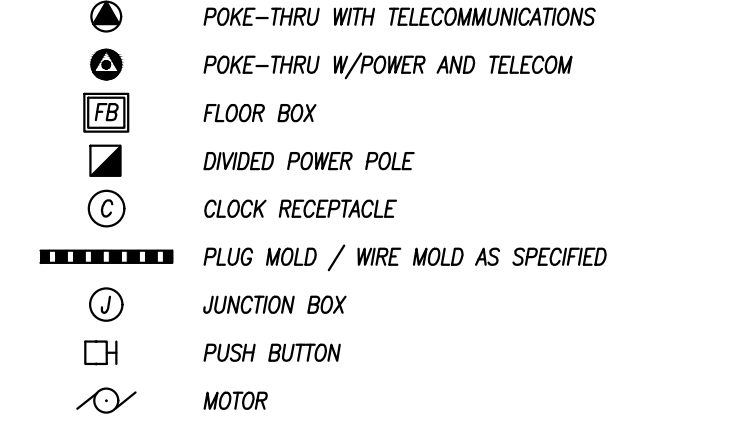
GENERAL SYMBOLS



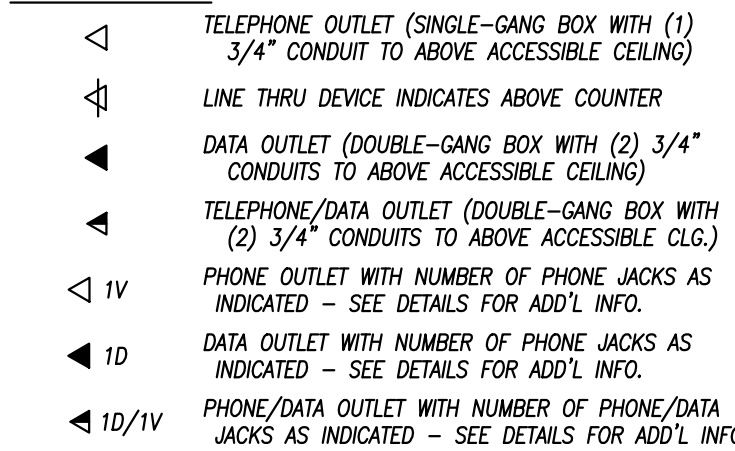
POWER DEVICES



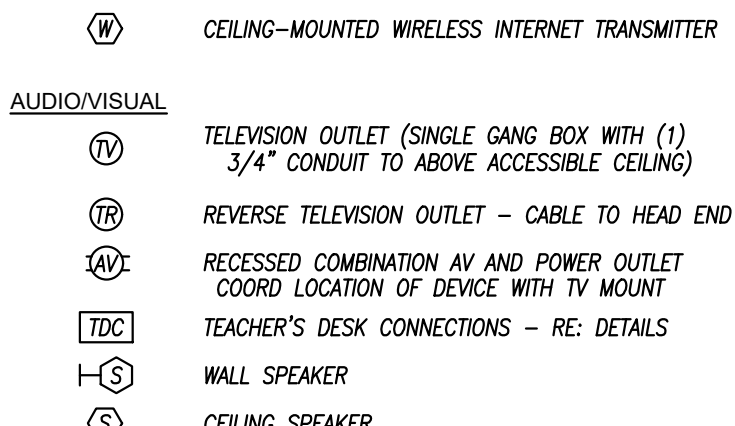
TELEPHONE/DATA



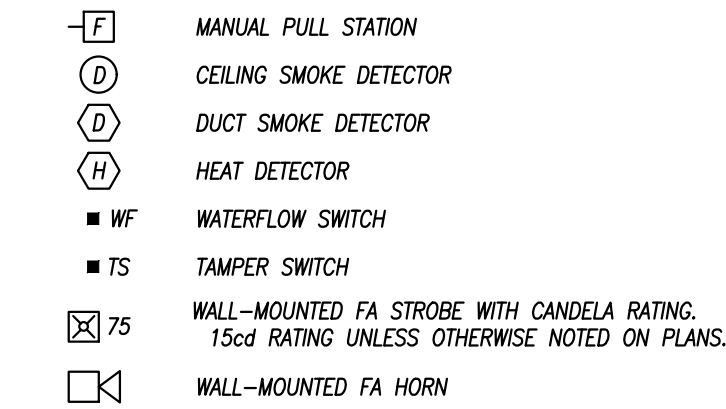
AUDIO/VISUAL



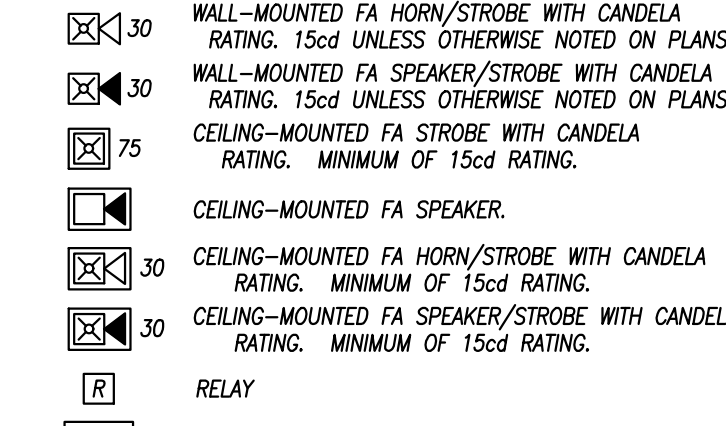
COMMUNICATIONS SYMBOLS



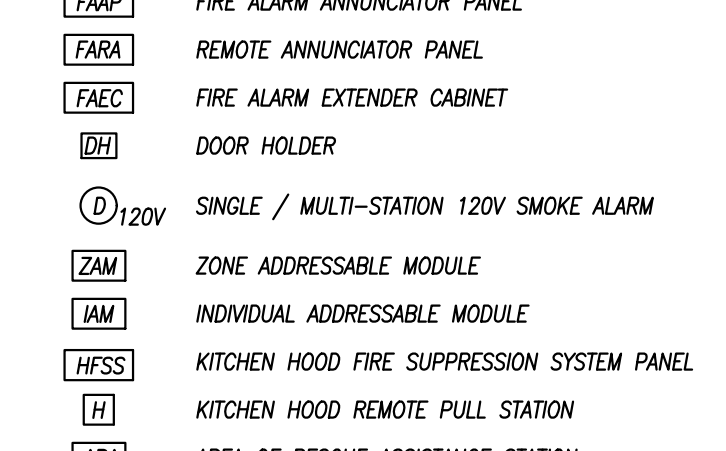
FIRE ALARM



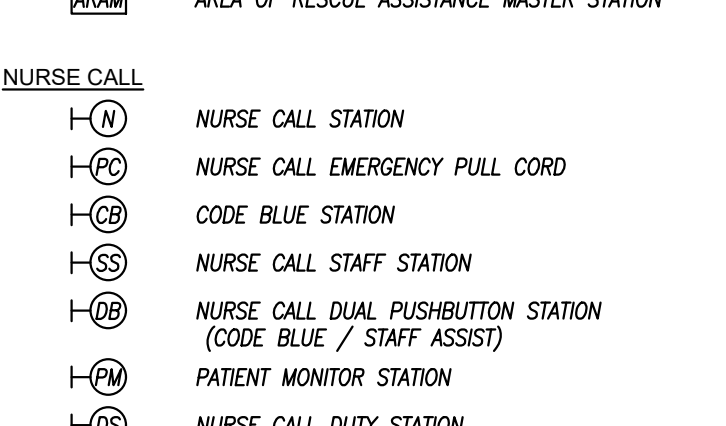
RELAY



NURSE CALL



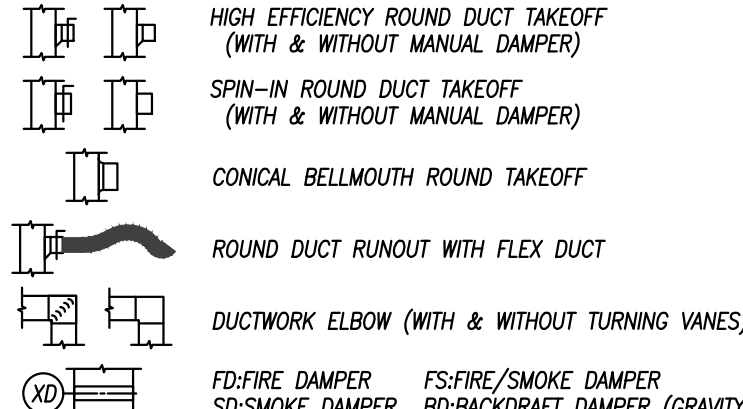
SECURITY



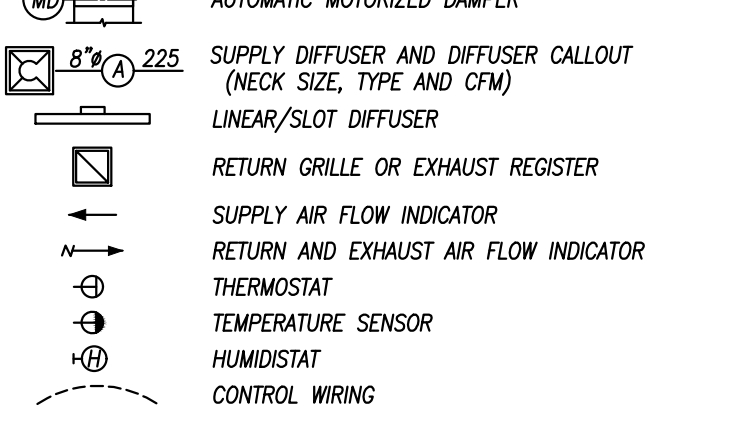
MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

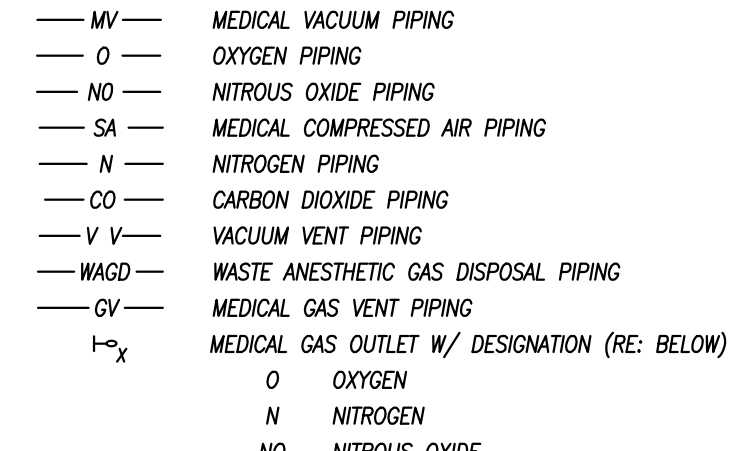
SHEET METAL



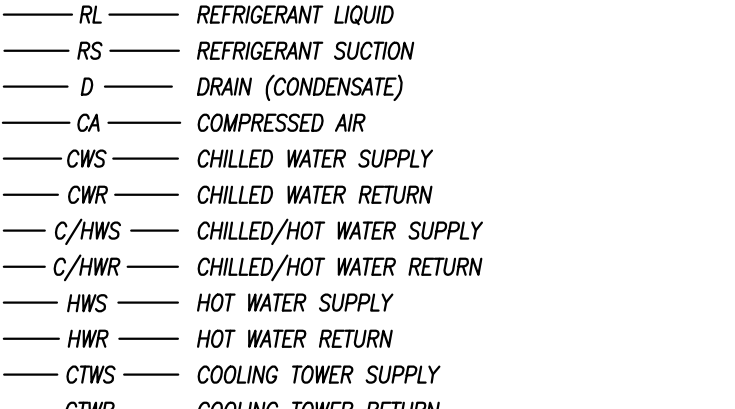
MEDICAL GAS



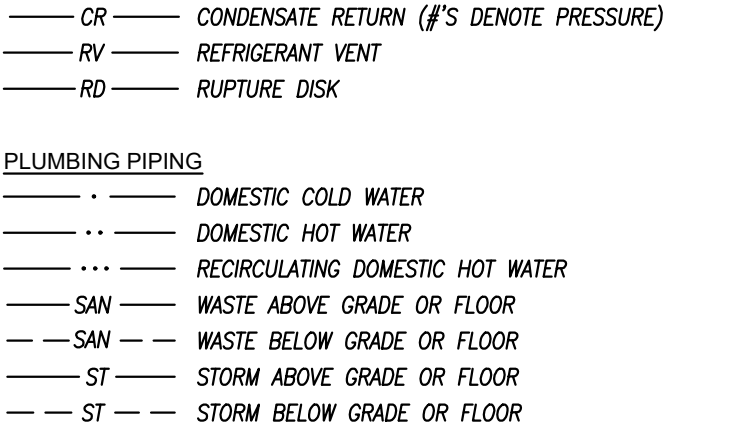
GENERAL SYMBOLS



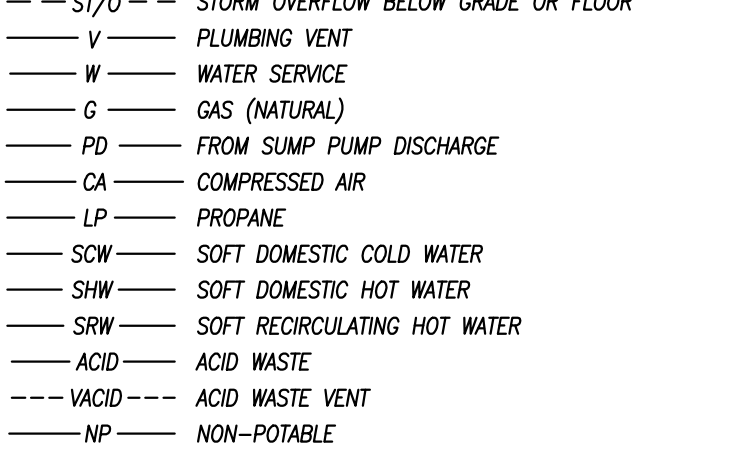
MECHANICAL PIPING



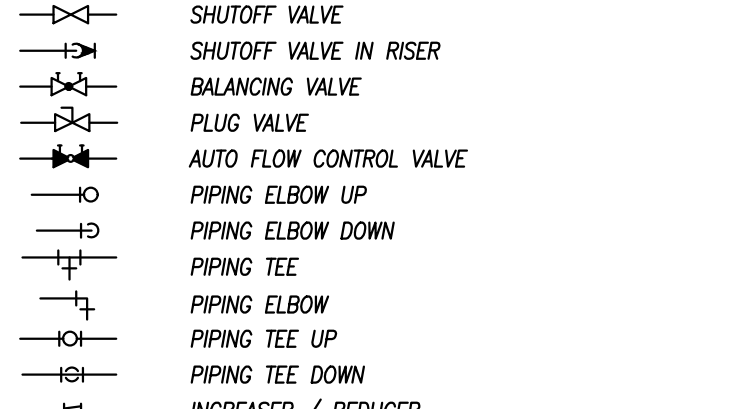
PLUMBING PIPING



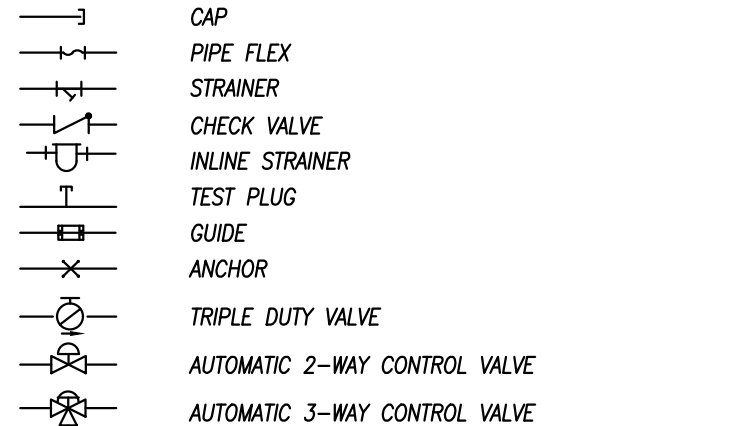
PLUMBING RISER CALLOUT (REFERS TO RISER DIAGRAM)



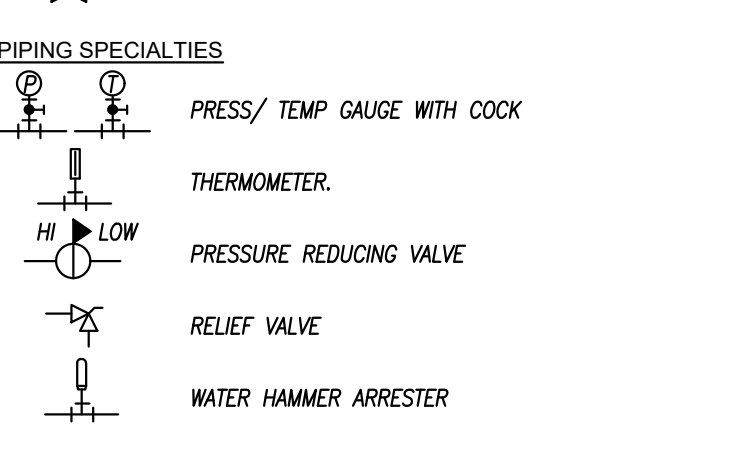
PIPING SYMBOLS



PIPING SPECIALTIES



PLUMBING FIXTURES/EQUIPMENT



GEN. MECHANICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/E.
2. ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURAL MEMBERS.
4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CELING THEY ARE INSTALLED.
5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER A/E OR AS REQUIRED BY A/E. COORDINATE WITH OTHER TRADES.
6. START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATION IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

COORDINATION NOTES

1. COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC. WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNING, RISERS AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILING, ETC. AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
4. CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO ENSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILING AND OTHER SPACES, CHASES, ETC. WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
5. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLIFIED TIME FOR INSTALLATION.
6. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADES WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
7. COORDINATE, PROTECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
8. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NEEDED IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PERMITS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.
13. COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES UTILIZING INDIRECT LIGHT SO THAT CONDUIT, DUCTWORK, STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24" CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.

GENERAL PLUMBING NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/E.
2. NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE ARCHITECT/ENGINEER'S FIELD VENT EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
3. PROVIDE CLEANSOUTS IN THE FOLLOWING LOCATIONS:
  - 3.1. IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
  - 3.2. BUILDING LOCATIONS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANSOUT.
  - 3.3. EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINE GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANSOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
  - 3.4. AT THE BASE OF EACH WASTE OR SOIL STACK.
  - 3.5. NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.
4. COORDINATE, PROTECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
5. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NEEDED IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
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9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PERMITS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.
13. COORDINATE THE MOUNTING OF SUSPENDED LIGHT FIXTURES UTILIZING INDIRECT LIGHT SO THAT CONDUIT, DUCTWORK, STRUCTURAL MEMBERS, ETC. ARE NOT LOCATED DIRECTLY ABOVE THE LIGHT FIXTURE. MAINTAIN A MINIMUM OF 24" CLEARANCE FROM THESE ITEMS WHENEVER POSSIBLE.

GENERAL ELECTRICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE A/E.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS SCHEDULE FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.
- 5.1. ALL EXPOSED WIRING SHALL BE IN EMT OR METALLIC CONDUIT, EXCEPT AS PERMITTED BY SPECIFICATIONS FOR WHIPS TO EQUIPMENT.
6. ALL CONDUCTOR SIZES INDICATED ON DRAWINGS ARE FOR COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE. ALUMINUM CONDUCTORS MAY BE USED ONLY UNDER THE FOLLOWING CONDITIONS:
  - 6.1. CONTRACTOR SHALL INCLUDE A DETECT ALTERNATE FOR USE OF SAME WITH BIDS FOR OWNER ACCEPTANCE.
  - 6.2. AL CONDUCTORS MAY ONLY BE USED ON FEEDERS 100A OR GREATER - NO EXCEPTIONS.
  - 6.3. ALUMINUM CABLEING SHALL BE COMPACTED ALUMINUM (STABLOY).
  - 6.4. PROVIDE COMPRESSION-TYPE ONE-HOLE OR TWO-HOLE LUG TERMINATIONS.
  - 6.5. PROVIDE ANTI-OXIDANT COMPOUND AT TERMINATIONS.
  - 6.6. CABLE TERMINATIONS SHALL BE MARKED "AL/CU".
  - 6.7. FINAL SIZES OF CONDUCTORS TO BE CONFIRMED BY ENGINEER.
  - 6.8. ALUMINUM SERVICE CONDUCTORS MUST HAVE "24-KBOLT" SERIES LABELING ON CABLE JACKETS PER EVERY REQUIREMENTS - NO EXCEPTIONS.
7. ENGINEER RESERVES FINAL RIGHT TO ACCEPT/REJECT USE OF ALUMINUM CONDUCTORS FOR PART OR ALL OF PROJECT.

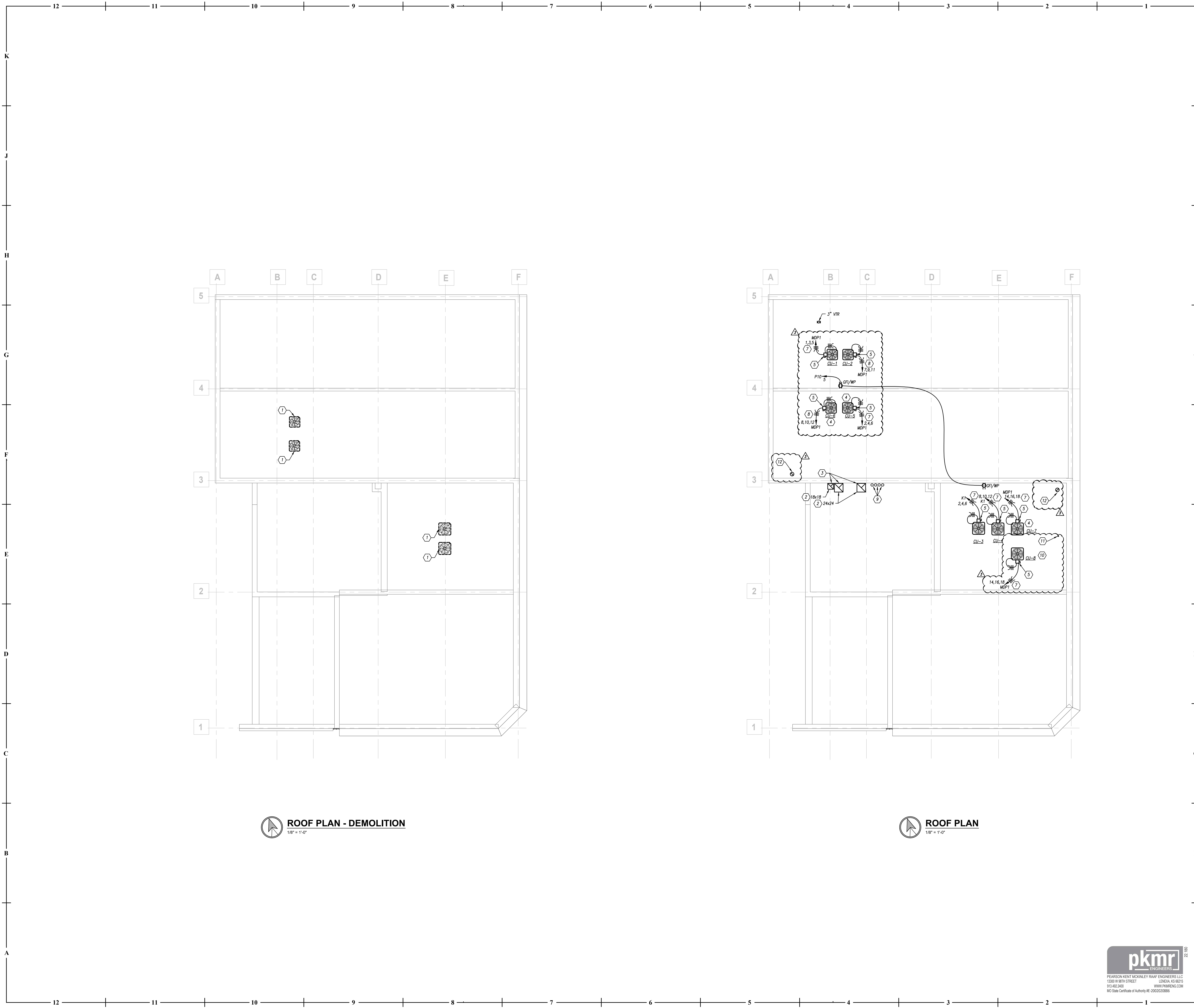
ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION	MH	MANHOLE
AF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE	ML	MAIN LUGS ONLY
AFS	ABOVE FINISHED GRADE	ENT	ENTERING WATER TEMPERATURE	NFA	NET FREE AREA
AG	ABOVE GRADE	EX	EXISTING ITEM	NL	NIGHT LIGHT
AJ	AUTHORITY HAVING JURISDICTION	FTA	FROM FLOOR ABOVE	OA	OUTSIDE AIR
AH	AIR HANDLING UNIT	FTB	FROM FLOOR BELOW	ORD	OVERFLOW ROOF DRAIN
ARCH	ARCHITECT	P/C	PLUMBING CONTRACTOR	P/C	PLUMBING CONTRACTOR
BFP	BACKFLOW PREVENTER	FGO	FINISHED GRADE CLEAN OUT	PSI	POUNDS PER SQUARE INCH
BG	BELOW GRADE	FL	FLOOR LINE	PVC	POLYVINYLCHLORIDE
BUD	BUILDING	FUR	FLOOR AIR	RA	RETURN AIR
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION	RE/REF	REFER / REFERENCE
C	CONDUIT	FS	FEET PER MINUTE	RF	RELIEF FAN
CD	CANDELA	FWO	FINISH WALL CLEAN OUT	RL	RELOCATED ITEM
CD	COLD DRAIN	G	GROUND / GANG	RPZ	REDUCED PRESSURE ZONE
CLG	COOLING	G/C	GENERAL CONTRACTOR	RR	RESTROOM
CM	COORDINATE MOUNTING HEIGHT	GT	GROUND FAULT CIRCUIT INTERRUPTER	SA	SUPPLY AIR
CM	CLEAN OUT	GSP	GFI-PROTECTED DEVICE	SPD	SURGE PROTECTIVE DEVICE
CTE	CONNECT TO EXISTING	GPM	GALLONS PER MINUTE	ST	SHUNT TRIP
DCA	DOUBLE CHECK VALVE ASSEMBLY	HD	HOT DECK	TA	TRANSFER AIR
DCM	DOMESTIC COLD WATER	HG	HEADING	TFA	TO FLOOR ABOVE
DD	DIRECT DIGITAL CONTROLS	IG	ISOLATED GROUND	TB	TO FLOOR BELOW
DF	DRINKING FOUNTAIN	JB	JUNCTION BOX	TP	TAMPERPROOF
DHW	DOMESTIC HOT WATER	LED	LIGHT EMITTING DIODE	TR	TYPICAL
DHW	DOMESTIC HOT WATER RETURN	LWT	LEAKING WATER TEMPERATURE	UNF	UNLESS NOTED OTHERWISE
DM	DAMETER	MC	MECHANICAL CONTRACTOR	VTR	VENT THROUGH ROOF
DN	DOWN	MA	MIXED AIR	WCO	WALL CLEANOUT
E/C	ELECTRICAL CONTRACTOR	MAU	MAKE UP AIR UNIT	WG	WIRE GUARD
EA	EXHAUST AIR	MCB	MAIN CIRCUIT BREAKER	WP	WEATHERPROOF
EDF	ELECTRIC DRINKING FOUNTAIN	MECH	MECHANICAL		









GENERAL ROOF PLAN

NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. MAINTAIN CODE-REQUIRED DISTANCES FOR ALL VENTS, EXHAUSTS, ETC. FROM MECHANICAL EQUIPMENT OUTSIDE AIR INTAKES.
3. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE MOUNTED A MINIMUM OF 36" ABOVE THE ROOF ON SUITABLE STEEL SUPPORTS UNLESS OTHERWISE NOTED.

ROOF PLAN KEYED NOTES

- 1 CONTRACTOR TO FIELD VERIFY LOCATION AND REMOVE EXISTING CONDENSING UNITS. REUSE EXISTING LOCATIONS. REFRIGERANT PIPE PENETRATIONS AND ACCESSORIES OF CONDENSING UNITS SERVING SECOND FLOOR. REFER TO NEW WORK PLAN.
- 2 DISHWASHER, GREASE AND MAKE-UP AIR DUCT FROM/ TO FIRST FLOOR TO/ FROM 2ND FLOOR ROOF.
- 3 CAP DUCTWORK ON ROOF FOR FUTURE USE.
- 4 CONDENSING UNIT SERVING 2ND FLOOR TO BE INSTALLED IN EXISTING LOCATION.
- 5 60AMP, 3-POLE, NON-FUSED HEAVY-DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
- 6 30AMP, 3-POLE, NON-FUSED HEAVY DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
- 7 (3) #6 WIRE AND (1) #10 GROUND IN 3/4" CONDUIT.
- 8 (3) #8 WIRE AND (1) #10 GROUND IN 3/4" CONDUIT.
- 9 CONDUIT PENETRATIONS FOR FUTURE MECHANICAL EQUIPMENT. REFER TO SHEET E111 FOR ADDITIONAL INFORMATION.
- 10 NEW CONDENSING UNIT SHALL BE INSTALLED ON A NEW EQUIPMENT CURB ON ROOF SUPPORT.
- 11 NEW CONCENTRIC VENT THROUGH ROOF. VENT TERMINATION SHALL NOT BE WITHIN 10' OF FRESH AIR INTAKE.
- 12 FRESH AIR INTAKE VENT.

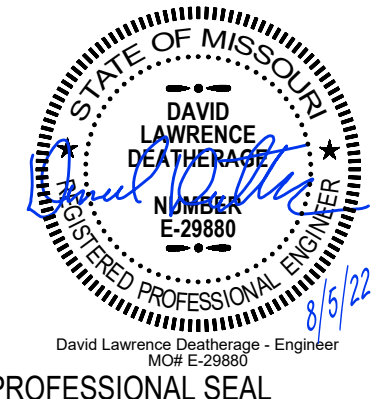
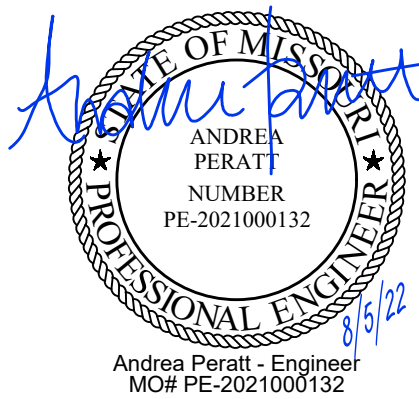
MAIN STREET LANDLORD IMPROVEMENTS

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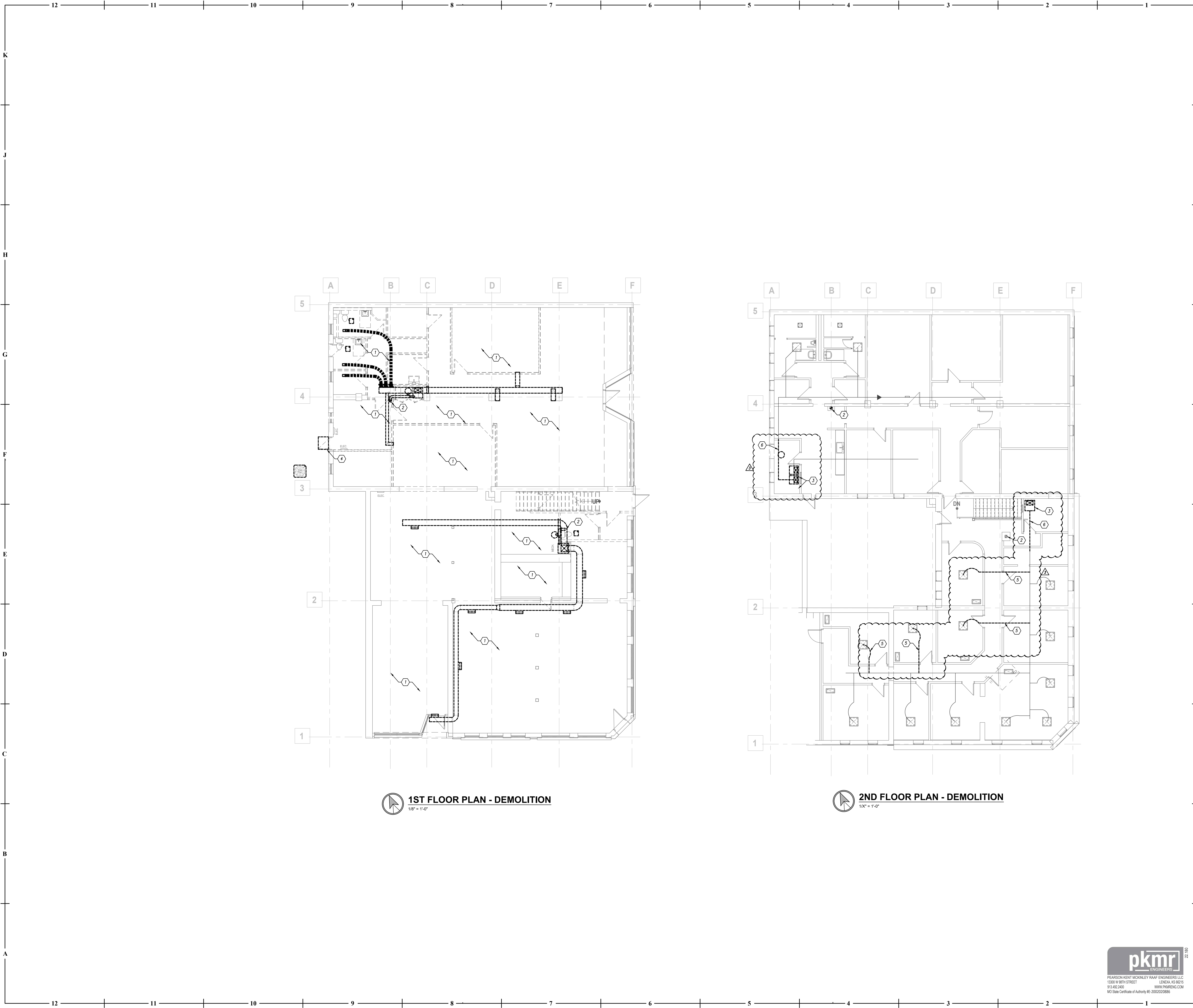
MEP101

ISSUE DATE: APRIL 21, 2022  
COLLINS WEBB #: 21121

ROOF PLAN







**GENERAL DEMOLITION NOTES**

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

**DEMOLITION PLAN KEYED NOTES**

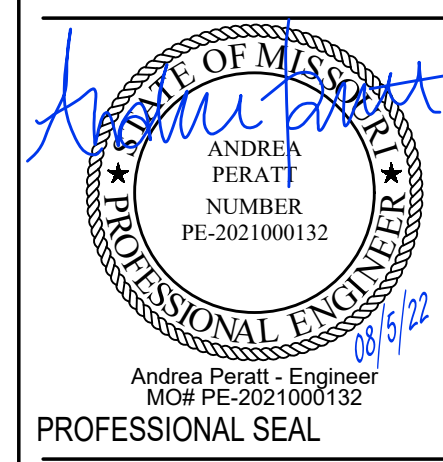
- 1. REMOVE ALL DUCTWORK, DIFFUSERS AND EQUIPMENT IN THIS AREA. PATCH/ REPAIR WALL/ CEILING IF REQUIRED. REFER TO NEW WORK PLAN.
- 2. REMOVE VERTICAL FLUE DUCT GOING THROUGH SECOND FLOOR TO ROOF. REFER TO NEW WORK PLAN.
- 3. REMOVE EXISTING FURNACE. KEEP ALL DUCTWORK, FLUE AND ACCESSORIES. CLEAN RETURN PLENUM, GRILLE AND PROVIDE NEW FILTERS. PREPARE DUCTWORK FOR NEW FURNACE INSTALLATION. REFER TO NEW WORK PLAN.
- 4. REMOVE EXISTING WEATHER HOOD AND INTAKE OPENING. PATCH AND REPAIR OPENING WITH CONSTRUCTION MATERIALS TO MATCH EXISTING CONDITIONS. REFER TO ARCHITECT.
- 5. REMOVE EXISTING DUCTWORK AND CAP BACK AT MAIN.
- 6. REMOVE SUPPLY DUCT AND CONNECTION AT FURNACE TO PREPARE FOR A NEW SUPPLY CONNECTION.

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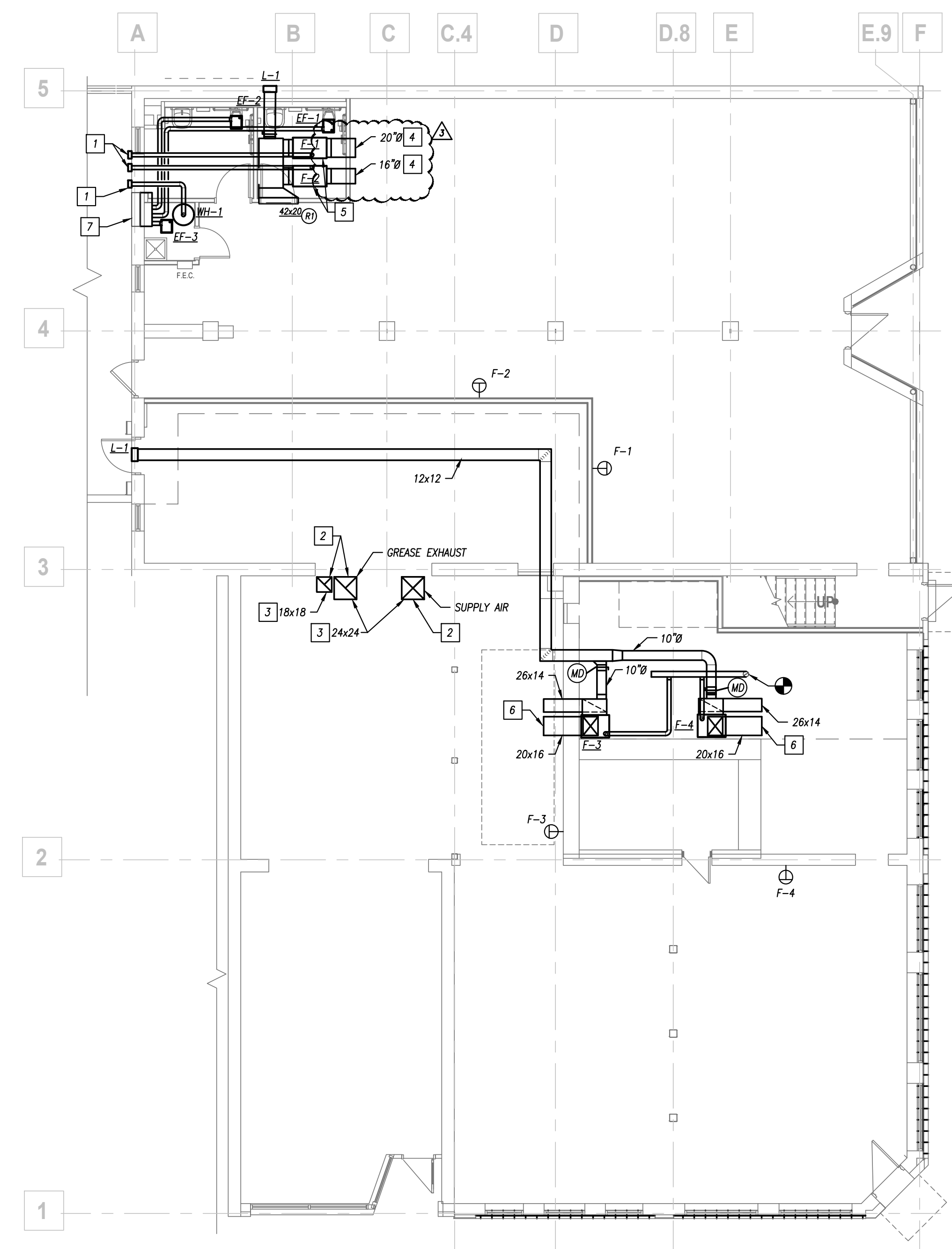
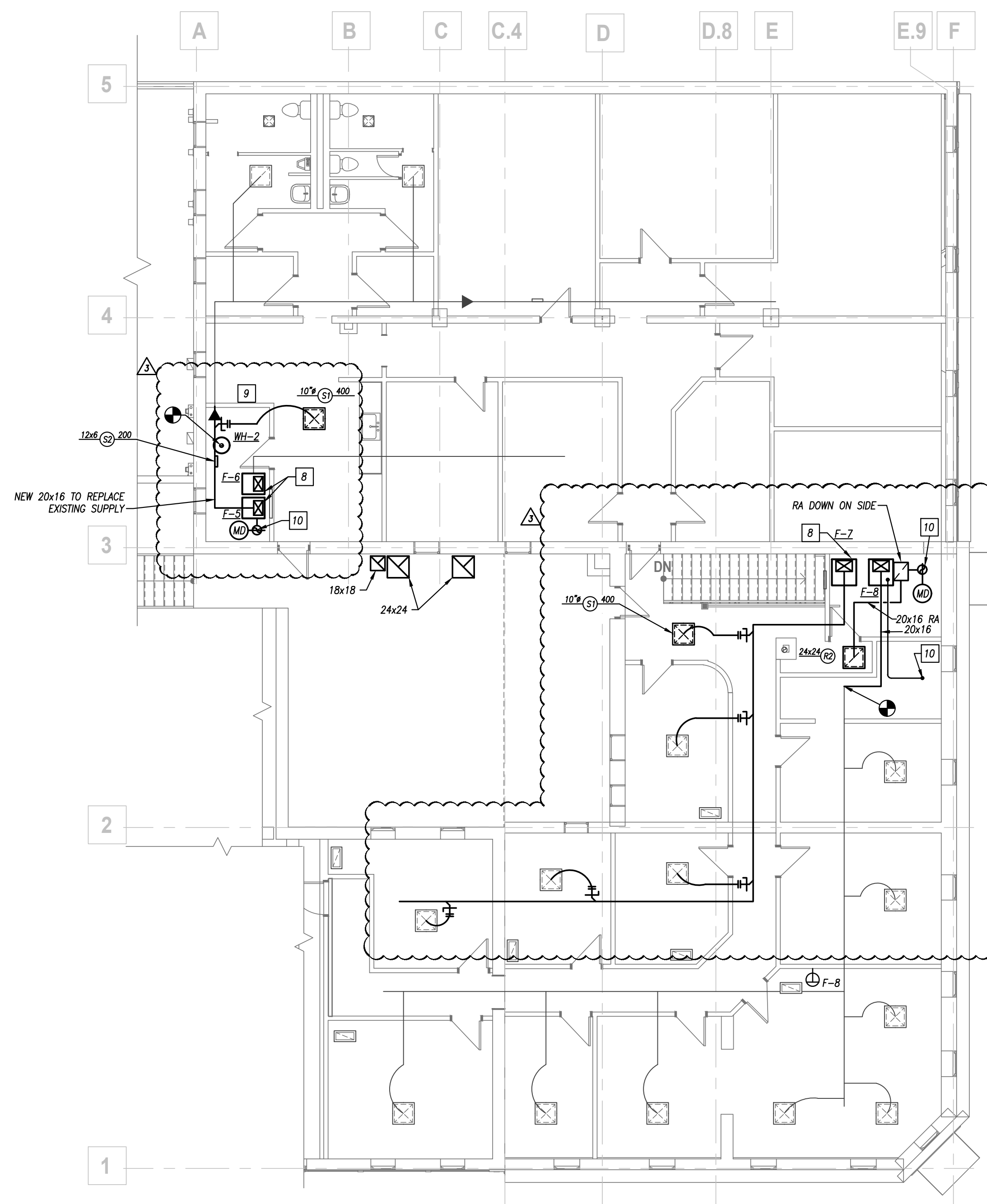


**DEMOLITION - FLOOR PLANS**



Permit Set





### GENERAL HVAC NOTES

1. REFER TO GENERAL NOTES ON MEP WORK SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. ROUND BRANCH DUCT RUNDITS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
3. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".
4. ALL RUNDITS TO TERMINAL BOXES SHALL BE ONE SIZE LARGER THAN THE NECK UNLESS NOTED OTHERWISE.
5. ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL. TURNING.
6. ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.
7. DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.
8. PROVIDE ACCESS DOORS IN DUCTS AHEAD OF ALL AUTOMATIC, FIRE, AND SMOKE DAMPERS.
9. FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.

## HVAC PLAN KEYED NOTES

- 1 TERMINATE 4" FLUE/VENT WITH PRINTABLE WALL CAP. REFER TO DETAIL.
- 2 DISMASHWER, GREASE AND MAKE-UP AIR DUCT CAPPED IN SPACE FOR FUTURE USE.
- 3 DISMASHWER AND GREASE DUCT FROM FIRST FLOOR TO SECOND FLOOR DUCT TO BE ROUTED ON EXTERIOR WALL AND CAPPED OVER 2ND FLOOR ROOF. REFER TO ROOF PLAN.
- 4 CAP SPIRAL DUCTWORK IN SPACE. ROUTE DUCTWORK ROOF TO STRUCTURE.
- 5 FURNACES TO BE INSTALLED ABOVE TOILET. REFER TO DETAIL FOR INSTALLATION.
- 6 SUPPLY AND RETURN AIR DUCTWORK ROUTED THROUGH STRUCTURAL WALL BOTTOM OF DUCT TO BE ROUTED AT 10'-0" R.F.F. EXCEPT PENETRATIONS WITH STRAPS.
- 7 REMOVE ALL EXHAUST TO PLENUM ON BACKSIDE OF EXISTING LOWER PLENUM TO MATCH EXISTING SIZE OF LOWER. REFER TO DETAIL.
- 8 REPLACE EXISTING FURNACES. CONNECT TO EXISTING DUCTWORK, FLUES, ELECTRICAL AND CONDENSATE.
- 9 REPLACE EXISTING WATER HEATER TO CONNECT INTO EXISTING FLUES.
- 10 1" OUTDOOR AIR DUCT UP TO ROOF INTAKE. PROVIDE MOTORIZED AND BALANCING DAMPER IN RISER. INTAKE ON ROOF SHALL BE COOP PR-12 OR EQUIVALENT.
- 11 TERMINATE FLUE AND INTAKE UP TO CONCENTRIC VENT. TERMINATION SHALL NOT BE WITHIN 10' OF FRESH AIR INTAKE.



## EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	CFM	E.S.P. (IN)	BHP	FAN DATA	DRIVE	SONES	RPM	ELECTRICAL	CONTROL	REMARKS
EF-1	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	3W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL
EF-2	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	3W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL
EF-3	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	3W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL

### REMARKS:

- UNIT SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROL MOUNTED AT FAN.
- PROVIDE WITH STARTER AND WIRE TO START SWITCH.

## HVAC PIPING MATERIAL SCHEDULE

SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION
CONDENSATE DRAIN INTERIOR	3/4" - 2"	SCH. 40	CPVC	SOLVENT JOINED	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ 1/2" (PLENUM ONLY)
CONDENSATE DRAIN INTERIOR	1/2" - 2"	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ 1/2" (PLENUM ONLY)
REFRIGERANT LINES	1/2" - 2"	ACR	COPPER	BRAZED		YES	ELASTOMERIC 3/4"

### NOTES:

- ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
- ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
- REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

## FURNACE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM	O.A. CFM	FAN DATA	HEATING	ELECTRICAL	REMARKS
F-1	LENNOX	SL297UH090608	1,900	210	0.5" 1/2	60.0	100.0	2
F-2	LENNOX	SL297UH090488	1,400	210	0.5" 1/2	45.0	110.0	2
F-3	LENNOX	SL280UH159600	1,990	299	0.5" 1	60.0	165.0	1
F-4	LENNOX	SL280UH159600	1,990	299	0.5" 1	60.0	165.0	1
F-5	LENNOX	SL280UH090488	1,400	180	0.5" 1/2	45.0	110.0	1
F-6	LENNOX	SL280UH090608	1,900	180	0.5" 1	60.0	110.0	1
F-7	LENNOX	SL280UH159600	1,990	299	0.5" 1	60.0	165.0	1
F-8	LENNOX	SL297UH090608	1,900	210	0.5" 1	60.0	100.0	2

### REMARKS:

- STANDARD EFFICIENCY FURNACE.
- HIGH EFFICIENCY FURNACE. PROVIDE WITH MANUFACTURER'S VERTICAL DISCHARGE KIT. REFER TO DETAIL.

## CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (MBH)	MINIMUM SEER	AMBIENT TEMP. (°F)	ELECTRICAL	REMARKS
CU-1	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0	50 ALL
CU-2	LENNOX	16ACX-048-230	45.0	15.0	105°	208V / 3PH 28.0	40 ALL
CU-3	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0	50 ALL
CU-4	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0	50 ALL
CU-5	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0	50 ALL
CU-6	LENNOX	16ACX-048-230	45.0	15.0	105°	208V / 3PH 28.0	40 ALL
CU-7	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0	50 ALL
CU-8	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0	50 ALL

### REMARKS:

- COOLING CAPACITY BASED ON A SUCTION TEMPERATURE OF 49°F.
- ENERGY-STAR COMPLIANT.
- PROVIDE WITH 3-1/2" CONCRETE PAD.

## LOUVER SCHEDULE

PLAN MARK	QTY.	MANUFACTURER	MODEL NUMBER	STYLE	SERVICE	WIDTH (IN)	HEIGHT (IN)	APD (IN)	FREE AREA (SF)	VELOCITY (FPM)	REMARKS
L-1	2	GREENHECK	EDJ-401	STATIONARY	INTAKE	14	14	0.006	0.3	200	ALL

### REMARKS:

- PROVIDE EXTENDED SILL AND MOUNTING FRAME TO MATCH CONSTRUCTION. COORDINATE EXACT LOUVER SIZE TO INSTALL WITHIN MASONRY DIMENSIONS.
- PROVIDE COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

## GRILLE, REGISTER & DIFFUSER SCHEDULE

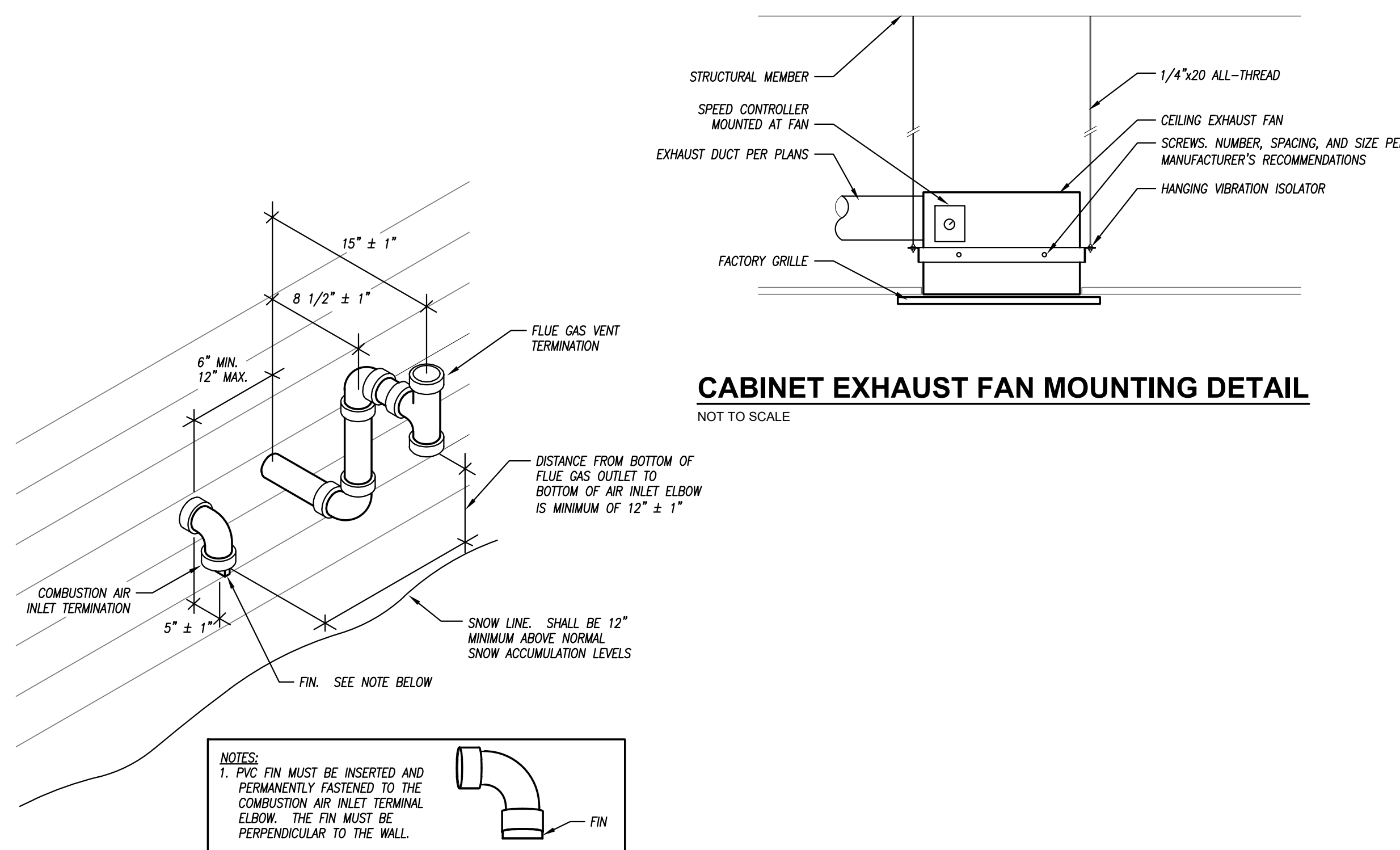
PLAN MARK	MANUFACTURER	MODEL NUMBER	MATERIAL	STYLE	DESCRIPTION	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	MAX. APD (IN. WG.)	MAX. NC	FINISH COLOR	REMARKS
S1	TITUS	PAS	STEEL	CEILING DIFFUSER	PERFORATED FACE	LAY - IN	24x24	AS INDICATED	NO	0.08	25	WHITE	
S2	TITUS	300RS	STEEL	SIDEWALL DIFFUSER	RECTANGULAR DOUBLE DEFLECTION AEROBLADE	DUCT	AS INDICATED	AS INDICATED	YES - O.B.	0.07	30	PAINTABLE	2
R1	TITUS	350FL2	STEEL	SQUARE WALL	35 DEG SINGLE DEFLECTION AEROBLADE 3/4" SPACING	WALL	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	1
R2	TITUS	PAR	STEEL	CEILING DIFFUSER	PERFORATED FACE	LAY - IN	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	

### GENERAL NOTES:

- PROVIDE ALL GRD WITH ALL NECESSARY MOUNTING HARDWARE.
- PROVIDE GRD WITHOUT SCREWHOLE WHEN INSTALLED IN LAY-IN CEILING.
- VERIFY CEILING CONFIGURATION, COLOR AND SPECIFICS WITH ARCHITECTURAL CEILING PLANS.

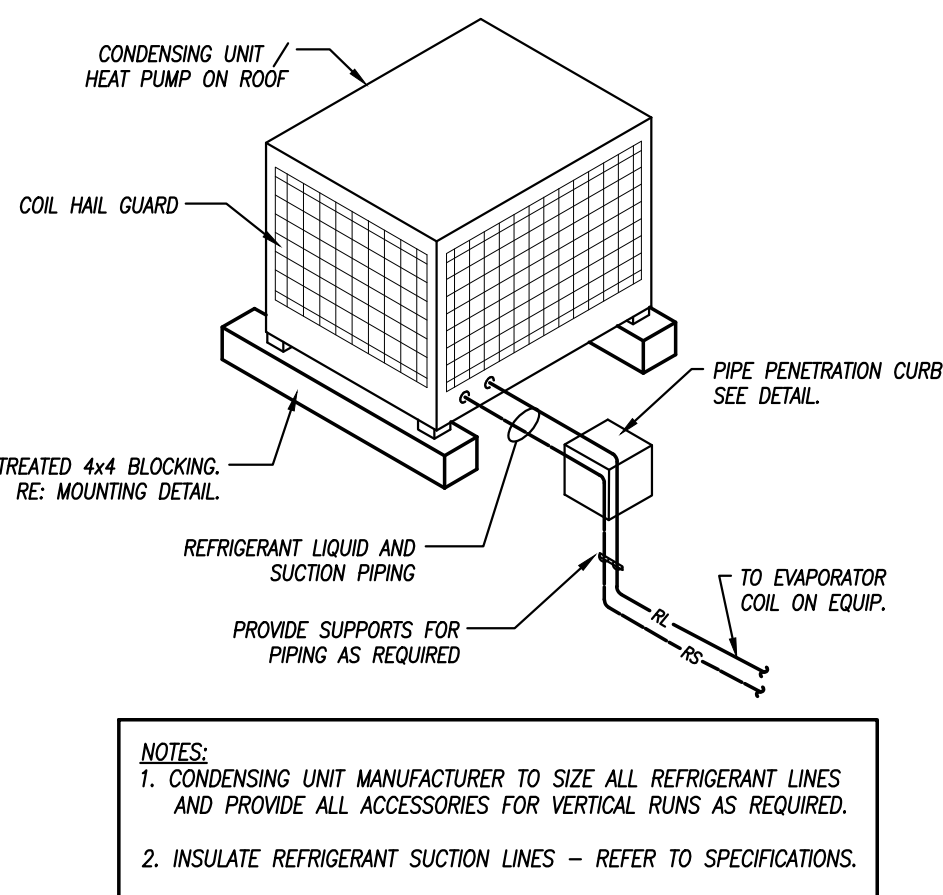
### REMARKS:

- PROVIDE WITH FILTERED GRILLE. PROVIDE WITH MERV 8 2" FILTER TO FIT WITHIN GRILLE ASSEMBLY.
- PROVIDE WALL FINISH, AND PAINT AS DIRECTED BY OWNER/ARCHITECT.



## CABINET EXHAUST FAN MOUNTING DETAIL

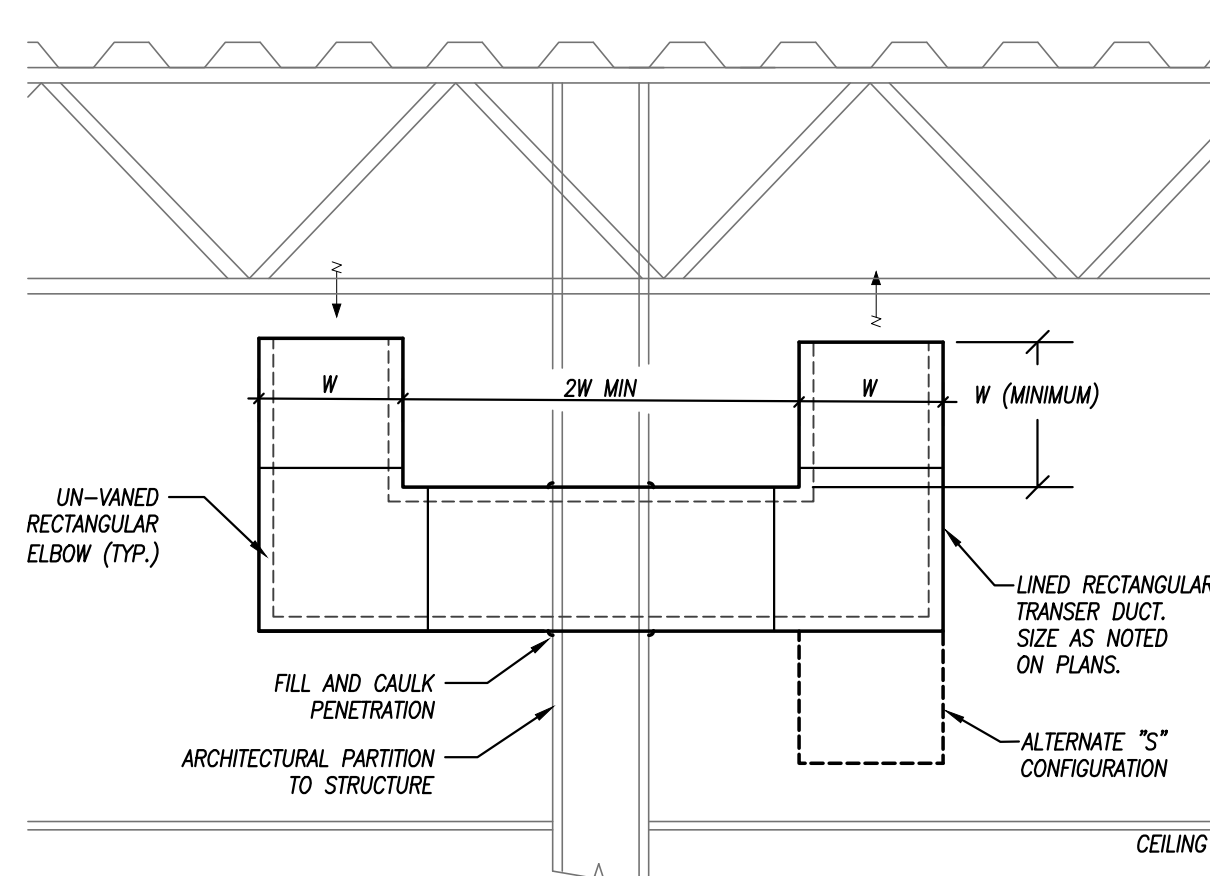
NOT TO SCALE



## CONDENSING UNIT / HEAT PUMP DETAIL

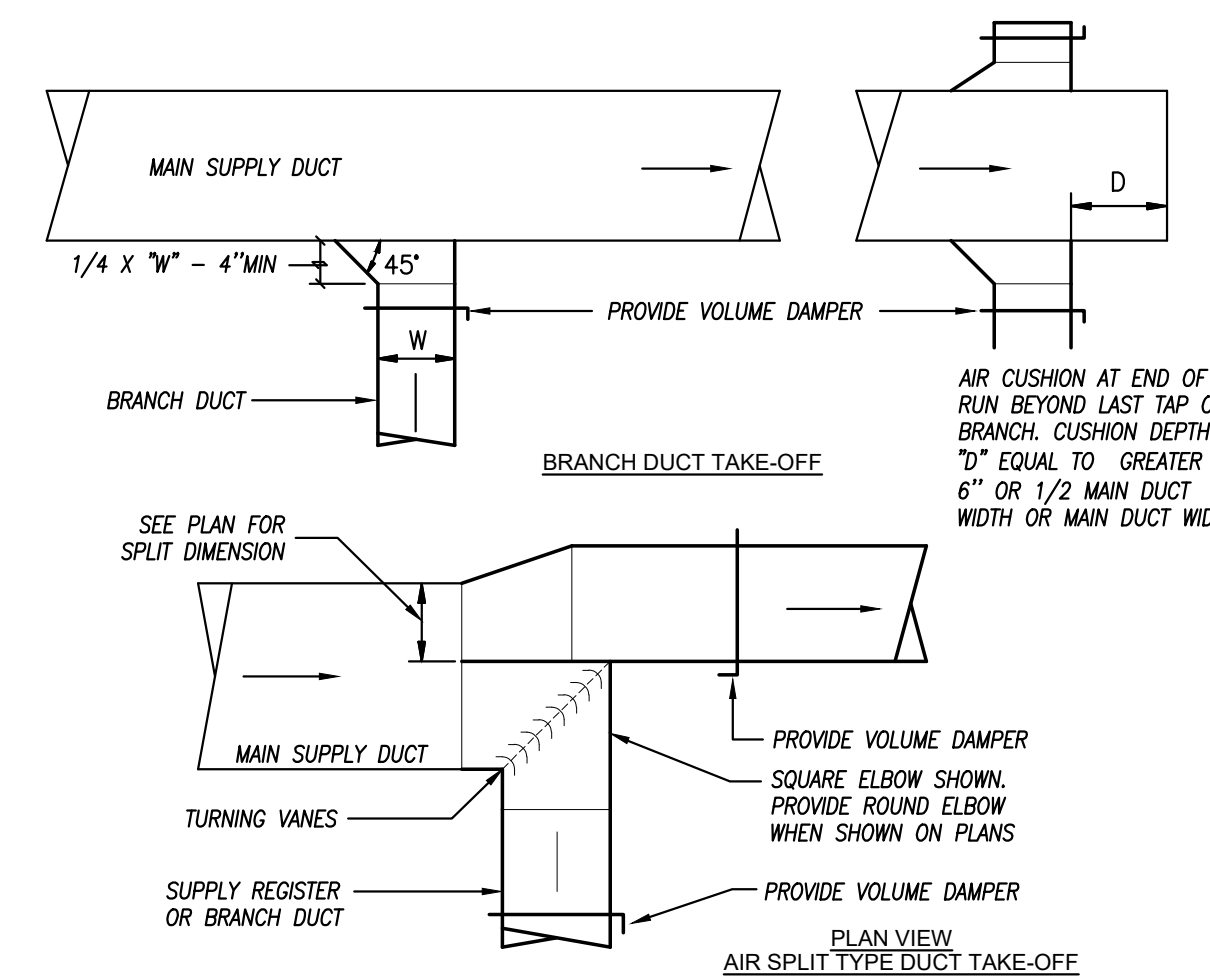
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- NOTES:
- CONDENSING UNIT MANUFACTURER TO SIZE ALL REFRIGERANT LINES AND PROVIDE ALL ACCESSORIES FOR VERTICAL RUNS AS REQUIRED.
  - INSULATE REFRIGERANT SUCTION LINES - REFER TO SPECIFICATIONS.



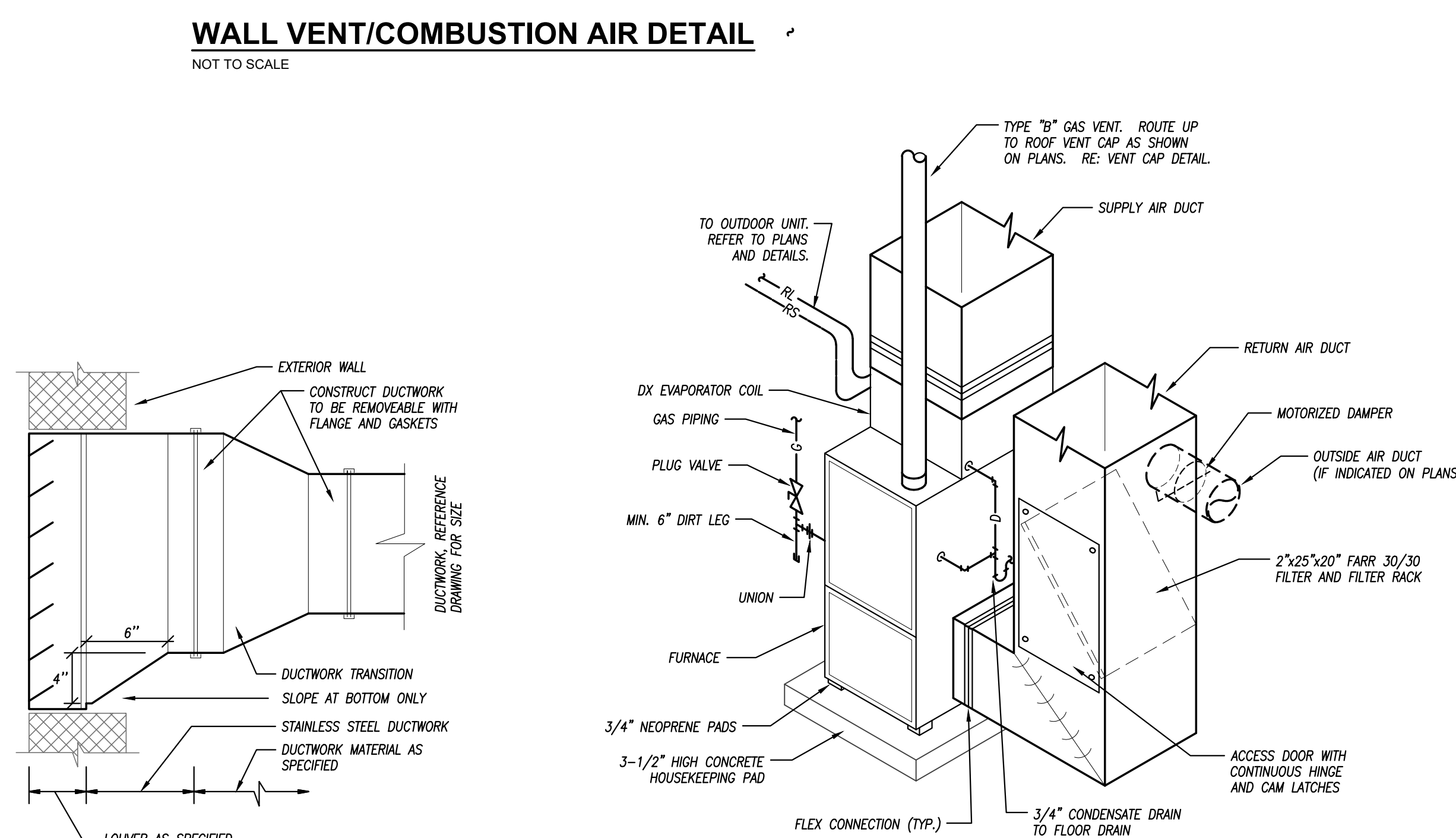
## TRANSFER BOOT DETAIL

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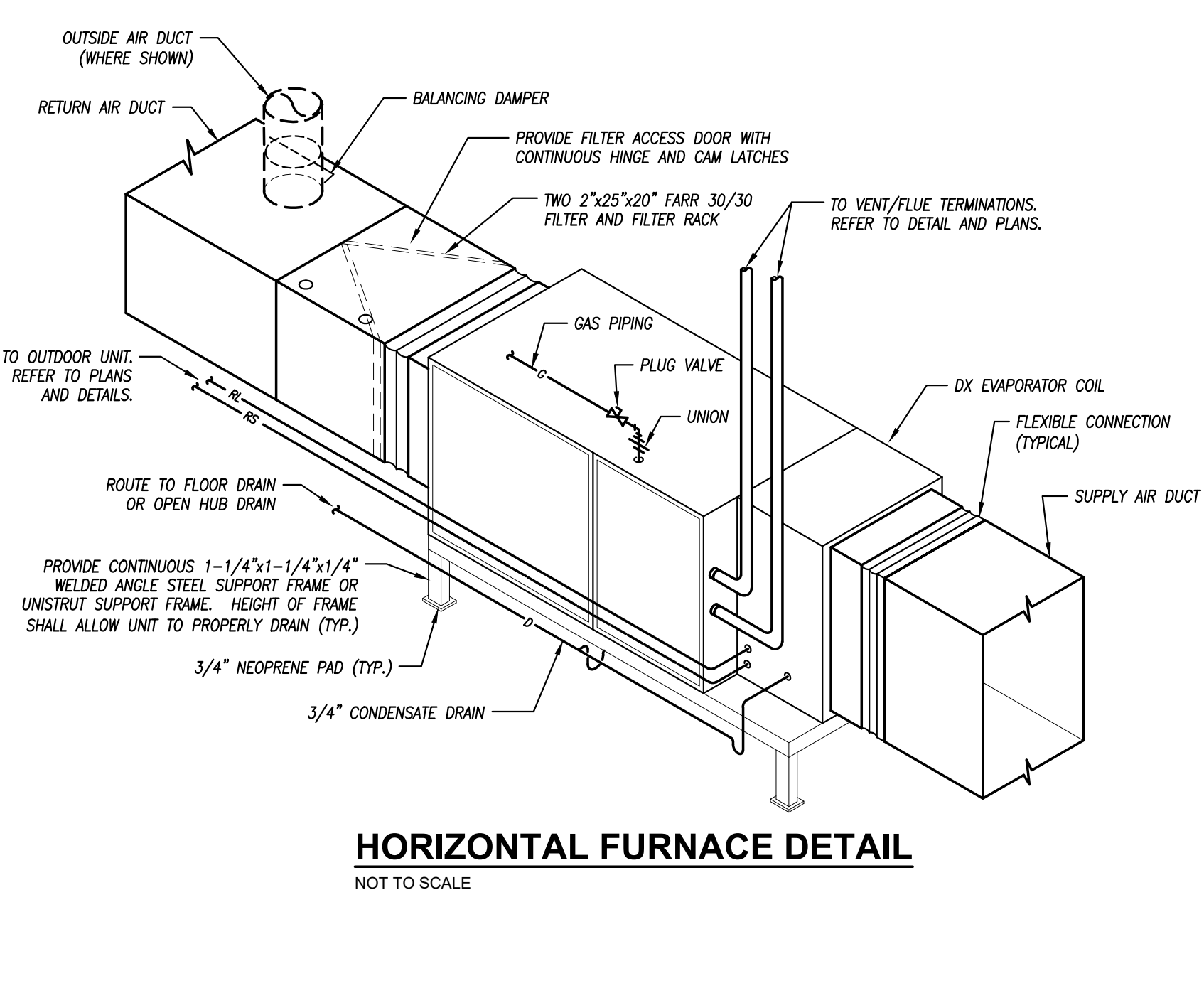
## DUCTWORK TAKEOFFS

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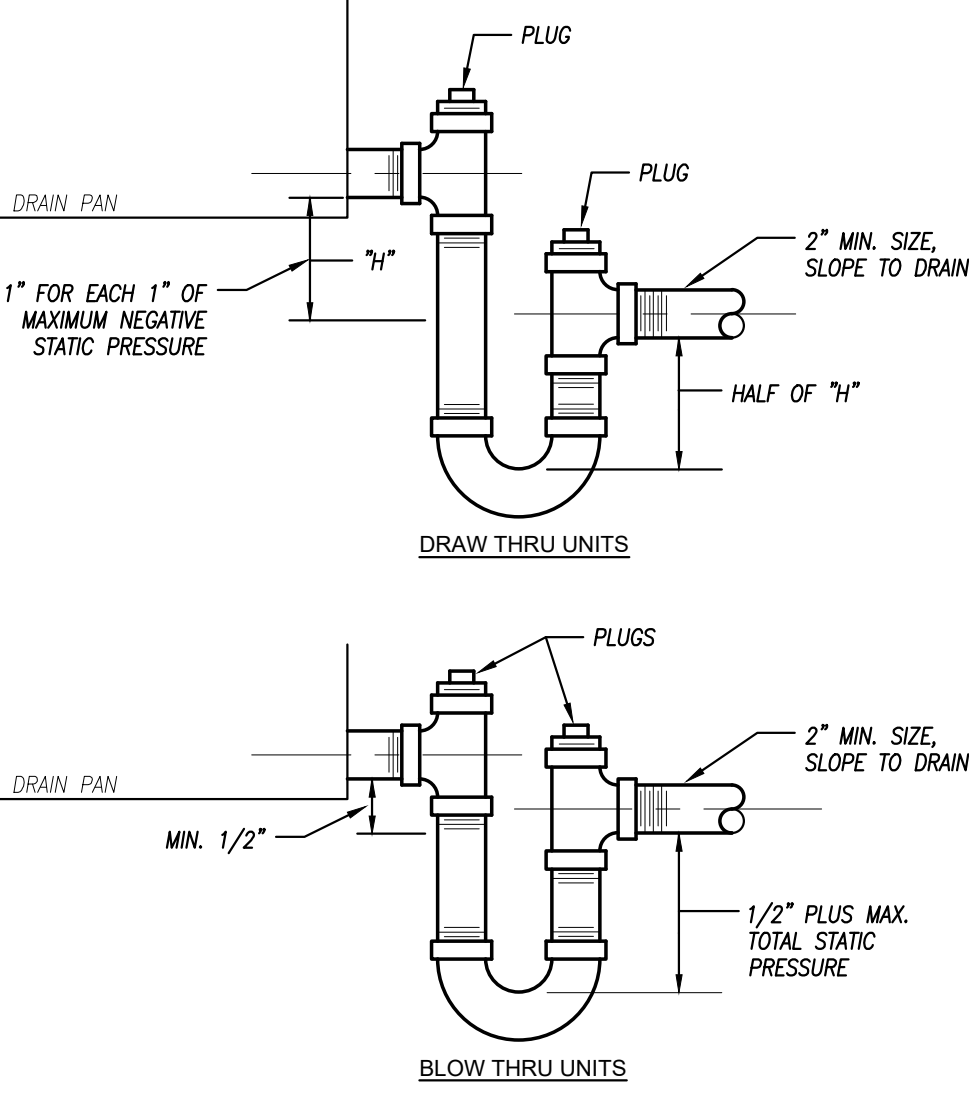
## FURNACE DETAIL

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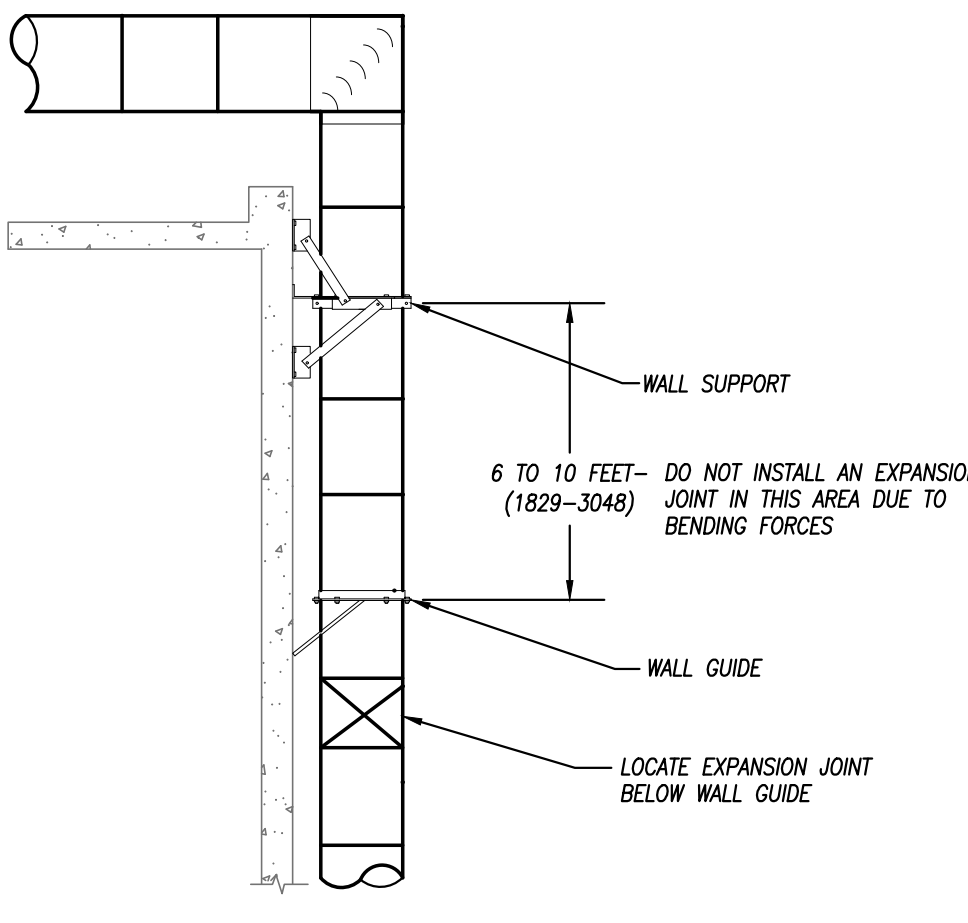
## HORIZONTAL FURNACE DETAIL

NOT TO SCALE



## CONDENSATE TRAP DETAIL

NOT TO SCALE



## GREASE DUCT ON WALL DETAIL

NOT TO SCALE

## DUCTWORK AT LOUVER

NOT TO SCALE



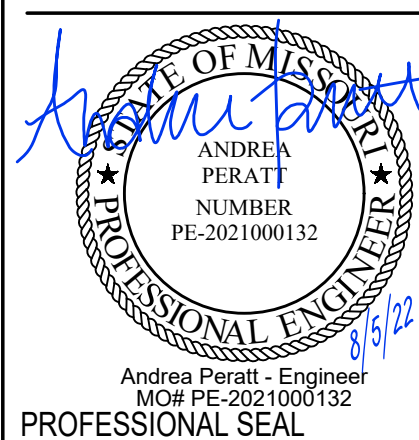
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PROFESSIONAL SEAL

**M201**

ISSUE DATE: APRIL 21, 2022  
COLLINS WEBB #: 21121



## MECHANICAL - SCHED. /DETAILS

Permit Set





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

**2ND FLOOR PLAN - DEMOLITION**  
1/8" = 1'-0"

## GENERAL DEMOLITION NOTES

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

## DEMOLITION PLAN KEYED NOTES

1. REMOVE ALL DOMESTIC COLD WATER, HOT WATER, SANITARY & VENT PIPE SERVING FIRST FLOOR FIXTURES AND EQUIPMENT. DO NOT DEMOLISH SANITARY PIPES FROM SECOND FLOOR. REFER TO NEW WORK PLAN.
2. GAS PIPE SERVING FIRST FLOOR TO BE REMOVED.
3. EXISTING WATER HEATER TO BE REPLACED ON SAME LOCATION. REUSE ALL EXISTING PIPES AND ACCESSORIES. REFER TO NEW WORK PLAN.
4. EXISTING FURNACE TO BE REPLACED ON SAME LOCATION. REMOVE EXISTING GAS CONNECTION AND PROVIDE NEW CONDENSATE DRAIN PIPE.
5. REMOVE EXISTING GAS PIPING BACK TO MAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING ROUTING.



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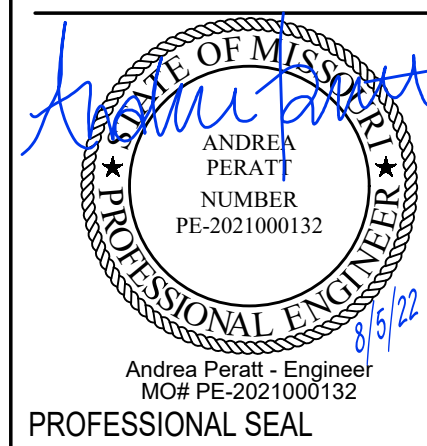
# MAIN STREET LANDLORD IMPROVEMENTS

230 SW MAIN ST.  
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REVISION DATES:

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**P011**

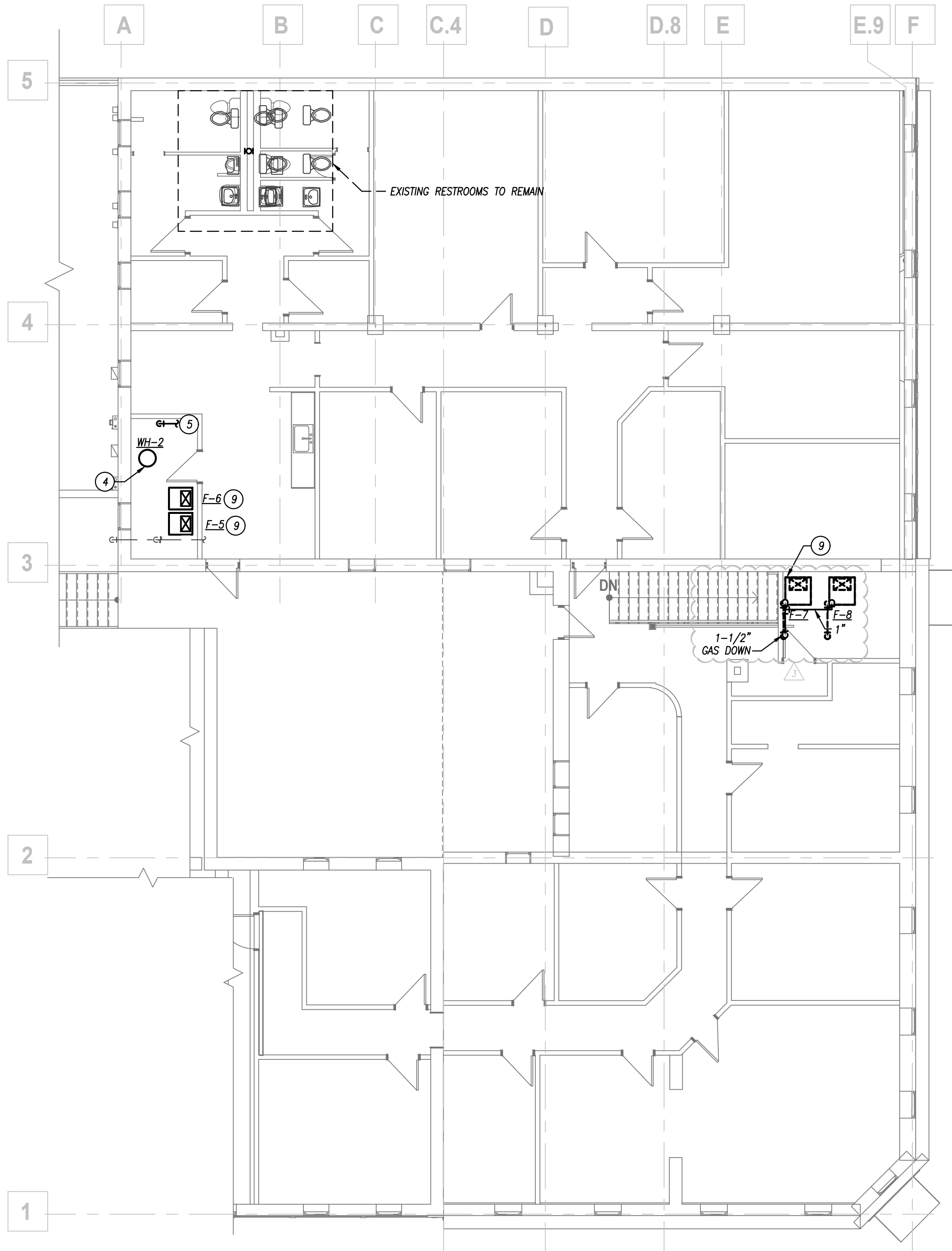
ISSUE DATE: APRIL 21, 2022  
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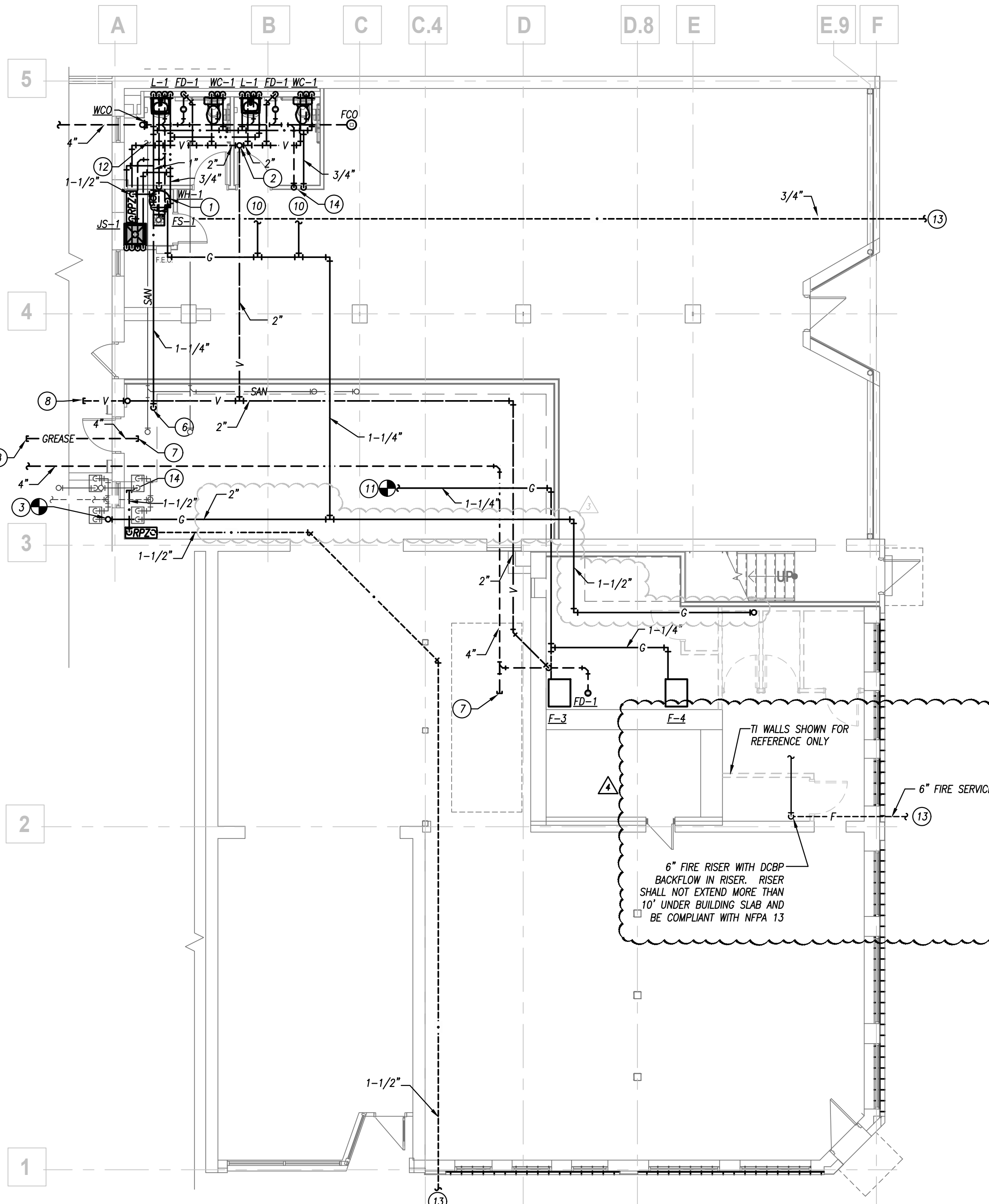
PEARSON KENT MCKINLEY RAAF ENGINEERS, LLC  
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LENDIA, KS 66215  
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DEMOLITION - FLOOR PLANS





**2ND FLOOR PLAN - PIPING**  
1/8" = 1'-0"



**1ST FLOOR PLAN - PIPING**  
1/8" = 1'-0"

**SCOPE OF FIRE SUPPRESSION**

CONTRACTOR SHALL INSTALL NEW NFPA-13 FIRE SUPPRESSION SYSTEM FOR BUILDING. REFER TO SPECIFICATIONS FOR REQUIREMENTS, PRODUCT SPECIFICS AND INSTALLATION PROCEDURES. SPRINKLER SYSTEM SHALL BE MONITORED BY THE FIRE ALARM SYSTEM OR A MONITORING SYSTEM WITH DIALER WHEN NO FIRE SPRINKLER IS PRESENT. CONTRACTOR SHALL PROVIDE NECESSARY TAMPER FLOW SWITCH, CONTROLS, AND MONITORING AS REQUIRED. SYSTEM SHALL BE QUICK RESPONSE TYPE FOR APPROPRIATE HAZARD CLASSIFICATION. COORDINATE WITH APPROVED ARCHITECTURAL PLANS FOR CONSTRUCTION TYPES, CLASSIFICATIONS AND HAZARDS.

CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ARCHITECTURAL PLANS FOR ROUTING OF PIPING AND PLACEMENT OF SPRINKLER HEADS. COORDINATE ATTIC LAYOUT WITH ARCHITECTURAL PLANS AND ANY DRAYSTOPS OR FIRE BARRIER LOCATIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION SHOWING COORDINATION OF SPRINKLER PIPING AND SPRINKLER HEADS WITH OTHER TRADES.

WHERE BUILDING REMAINS UNFINISHED THE SPRINKLER SYSTEM SHALL DESIGNED FOR CAPACITY TO EXTEND THE SYSTEM WITHOUT RETURNING TO THE RISER LOCATION FOR FUTURE COVERAGE OF ADDITIONAL SPACES IN BUILDING.

**FIRE SPRINKLER DESIGN CRITERIA**

ENGINEERING DOCUMENTS SHALL BE BASED UPON THE FOLLOWING CODES AND STANDARDS (AND LIST THEM ON THE LAYOUT DOCUMENTS):

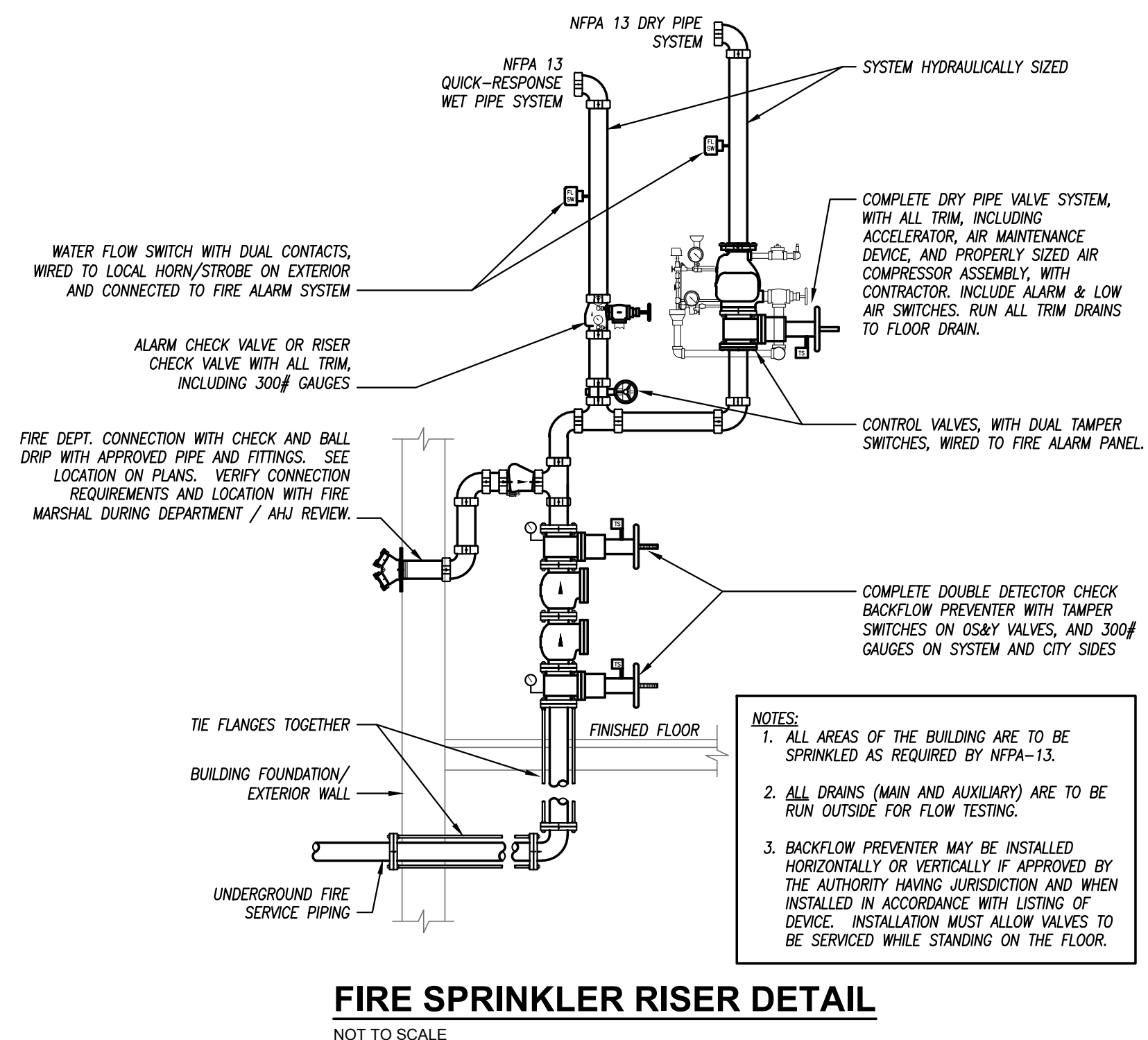
1. NFPA 13 - CURRENT EDITION

FIRE PROTECTION DOCUMENTS SHALL ALSO LIST AND/OR SHOW THE FOLLOWING (UTILIZE CODE APPROVED CODE PLANS AND COORDINATE ALL AREAS OF THE BUILDING AND VARIOUS REQUIREMENTS AS MAY BE NECESSARY. GENERALLY, THE BUILDING SPACES SHALL BE AS FOLLOWS, BUT MAY DIFFER IN SPECIFIC AREAS OF MULTIPLE OCCUPANCIES):

1. OCCUPANCY TYPE - AS LISTED ON ARCHITECTURAL CODE PLANS
2. CONSTRUCTION TYPE - AS LISTED ON ARCHITECTURAL CODE PLANS
3. DESIGN APPROACH (STATE THE FOLLOWING: RESPONSE TYPE, DENSITY, HEAD SPACING.)
4. INTERIOR OCCUPIED SPACES SYSTEM
- 4.1. SYSTEM TYPE - WET
- 4.2. HAZARD CLASSIFICATION - LIGHT
- 4.2.1. SYSTEM RESPONSE TYPE - QUICK
- 4.2.2. DENSITIES - 0.10 GPM/SF FOR 1,500 SF
- 4.2.3. MAXIMUM HEAD SPACING - 225 SF
- 4.3. HAZARD CLASSIFICATION - ORDINARY GROUP 1
- 4.3.1. SYSTEM RESPONSE TYPE - QUICK
- 4.3.2. DENSITIES - 0.15 GPM/SF FOR 1,500 SF
- 4.3.3. MAXIMUM HEAD SPACING - 130 SF
5. ATTIC AND OTHER AREAS SUBJECT TO FREEZING TEMPERATURES
- 5.1. SYSTEM TYPE - DRY
- 5.2. HAZARD CLASSIFICATION - LIGHT
- 5.2.1. SYSTEM RESPONSE TYPE - QUICK
- 5.2.2. DENSITIES - 0.10 GPM/SF FOR 1,500 SF
- 5.2.3. MAXIMUM HEAD SPACING - 120 SF
6. CHARACTERISTICS OF WATER SUPPLY TO BE USED, INCLUDING MAIN SIZE AND LOCATION, STATIC AND RESIDUAL PRESSURES AND FLOW RATES
7. THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY
8. SYSTEM VALVING AND ALARM REQUIREMENTS:
- 8.1. SYSTEM SHALL BE MONITORED BY THE FIRE ALARM SYSTEM OR A SEPARATE MONITORING SYSTEM PANEL, DIALER AND ANNUNCIATION ACCESSORIES AS REQUIRED BY LOCAL ADOPTED CODES.
- 8.2. ALL CONTROL VALVES SHALL BE EQUIPPED WITH TAMPER AND FLOW SWITCHES WIRED TO THE MONITORING SOURCE PANEL.
9. PROVIDE ALL ADDITIONAL SYSTEM COMPONENTS FOR DRY SYSTEM INCLUDING AIR COMPRESSOR AND OTHER VALVES MONITORING

ACCEPTANCE TESTING OF FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

1. NFPA 25 - CURRENT EDITION



- GENERAL PLUMBING NOTES**
1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
  2. REFER TO PLUMBING FUTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
  3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2'.
  4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
  5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOR SIM OF FIXTURE.
  6. NOT ALL INTERIOR CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE- GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
  7. ALL FLOOR DRAIN TRAPS SHALL BE PROTECTED BY ONE OF THE FOLLOWING METHODS, TO BE INSTALLED AT CONTRACTOR'S DISCRETION AND IN COMPLIANCE WITH ADOPTED VERSION OF PLUMBING CODE AND/OR ANI:
- 7.1. PROVIDE TRAP SEALS LISTED FOR PROPOSED USE.
- 7.2. PROVIDE TRAP PRIMERS. 1/2" TRAP PRIMER PIPING TO NEAREST TRAP PRIMER VALVE. PIPING SHALL BE TYPE "X" SOFT COPPER SEAMLESS WITH NO JOINTS FROM VALVE TO DRAIN.
- PLUMBING PLAN KEYED NOTES**
1. INSTALL WATER HEATER NEXT TO JANITOR'S SINK.
  2. 3" VENT THROUGH CHASE ON 2ND FLOOR TO ROOF. TERMINATE VENT 10' CLEAR FROM ANY OUTSIDE AIR INTAKE.
  3. CONNECT 2-1/2" GAS LINE TO EXISTING GAS MAIN FOR NORTH/SOUTH FLOOR TENANT. CONTRACTOR SHALL FIELD VERIFY GAS PIPE ROUTING AND SIZING PRIOR TO NEW SCOPE OF WORK.
  4. NEW WATER HEATER. RECONNECT WATER HEATER TO EXISTING PLUMBING. PROVIDE NEW PIPE/PIPE FITTING IF REQUIRED.
  5. 3/4" DOMESTIC WATER PIPE UP FROM FLOOR BELOW. CONNECT TO EXISTING COLD WATER MAIN TO SERVE ALL 2ND FLOOR PLUMBING FIXTURES AND EQUIPMENT. CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPE.
  6. 3/4" COLD WATER PIPE TO 2ND FLOOR.
  7. PIPE TO BE CAPPED FOR FUTURE TENANT USE. PIPING TO BE 36" BELOW FINISH GRADE FOR FUTURE TENANT USE.
  8. UNDERGROUND GREASE AND VENT TO BE CAPPED OUTSIDE FOR FUTURE GREASE INTERCEPTOR.
  9. RECONNECT EXISTING GAS TO FURNACES. PROVIDE NEW CONDENSATE DRAIN AND TERMINATE TO NEAREST FLOOR DRAIN.
  10. GAS PIPE FOR FURNACE F-1 AND F-2 RESPECTIVELY. REFER TO DETAIL FOR CONNECTION.
  11. CONNECT TO EXISTING GAS MAIN FOR SOUTH TENANT. CONTRACTOR SHALL FIELD VERIFY GAS PIPE ROUTING AND SIZING PRIOR TO NEW SCOPE OF WORK.
  12. CONNECT EXISTING SANITARY LINE FROM SECOND FLOOR EXISTING PIPING TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
  13. REFER TO CIVIL FOR CONTINUATION.
  14. CAP PLUMBING PIPING FOR FUTURE TENANT BUILD OUT.

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Owner Revision	12/08/22

Professional Engineer Seal for Andrew Peratt, License No. PE-2021000132, State of Missouri.

**P111**

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PLUMBING - FLOOR PLANS

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PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE	THICKNESS
DOMESTIC COLD WATER	1/2"-2"-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-1-1/4"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
DOMESTIC HOT WATER & HW RETURN	1-1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1-1/2"
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL - SEAMLESS	THREADED IRON OR WELDED	75 PSI - 1HR	YES	-----	----
SOIL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT - 1/2HR	YES	-----	----
SOIL & WASTE ABOVE GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
RPTZ AND SIMILAR EXPOSED DRAIN LINES	ALL	SCH. 40	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	-----	----
CONDENSATE DRAIN ON ROOF	3/4"-3"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
CONDENSATE DRAIN INTERIOR	3/4"-2"	SCH. 40	CPVC	SOLVENT JOINED	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)
CONDENSATE DRAIN INTERIOR	1/2"-2"	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)

- NOTES
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
  2. ALL INSULATION THICKNESSES SHALL MEET ADOPTED EEC AND ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM.
  3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.
  4. WELDED PIPING IS REQUIRED FOR GAS PIPING WHEN: A) PIPING IS AT OR OVER 2PSI; B) WHEN PIPING OF ANY PRESSURE IS ROUTED THROUGH CONCEALED SPACES.

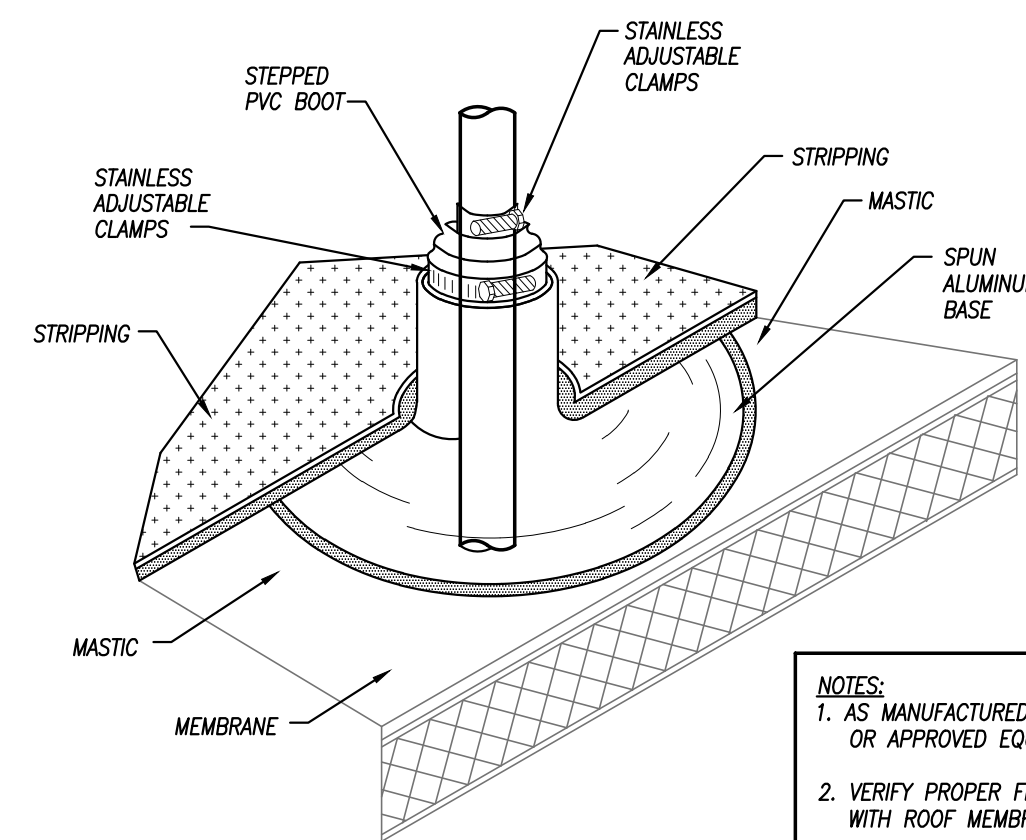
PLUMBING FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE TYPE	TRAP	WASTE	VENT	DCW	DHW
WATER CLOSET (FLUSH VALVE)	INTEGRAL	4"	2"	1"	----
URINAL (FLUSH VALVE)	INTEGRAL	2"	2"	3/4"	----
FLUSH TANK WATER CLOSET	INTEGRAL	4"	2"	1/2"	----
LAVATORY	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
SINK	PROVIDE TRAP	2"	2"	1/2"	1/2"
MOP SINK	PROVIDE DEEP SEAL TRAP	3"	2"	1/2"	1/2"
FLOOR DRAIN	PROVIDE DEEP SEAL TRAP	AS SCHEDULED	1-1/2"	----	----
FLOOR SINK	PROVIDE TRAP	AS SCHEDULED	1-1/2"	----	----
DRINKING FOUNTAINS/FWC'S	PROVIDE TRAP	1-1/2"	1-1/2"	1/2"	----
SHOWERS/TUBS	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
SHOWERS	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
ICE MACHINE HOOKUP BOX	----	----	----	1/2"	----
WASHER HOOKUP BOXES	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"

FLOOR / ROOF DRAIN SCHEDULE

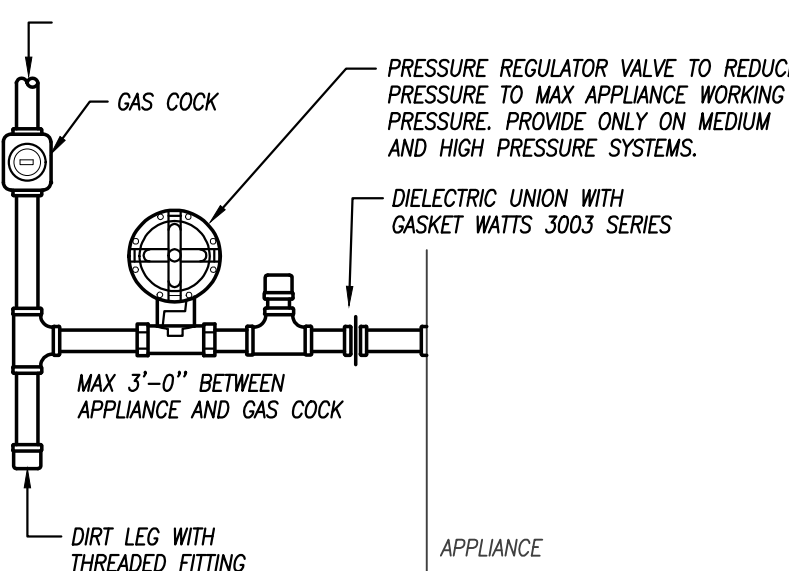
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRADE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"	2"	1
FS-1	WADE	9100	FLOOR SINK	12"x12"	4"	2

- REMARKS:
1. PROVIDE WITH NICKEL BRONZE TOP.
  2. PROVIDE WITH 3/4" GRATE.



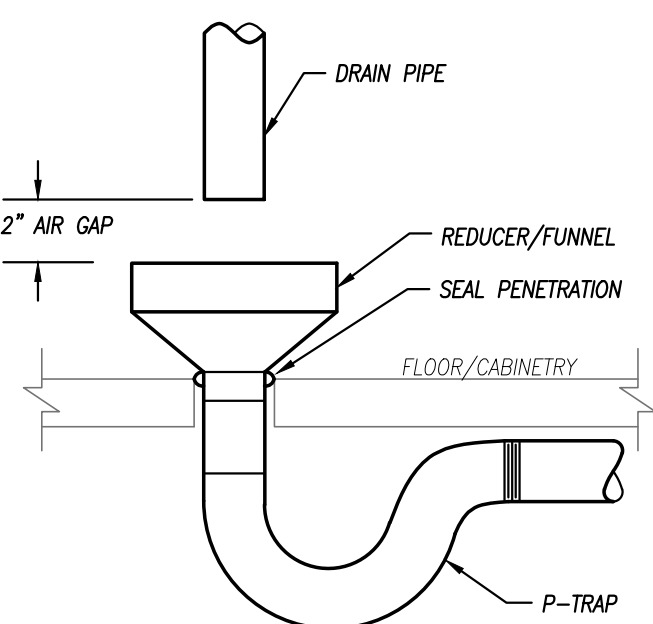
ROOF PLUMBING VENT

NOT TO SCALE



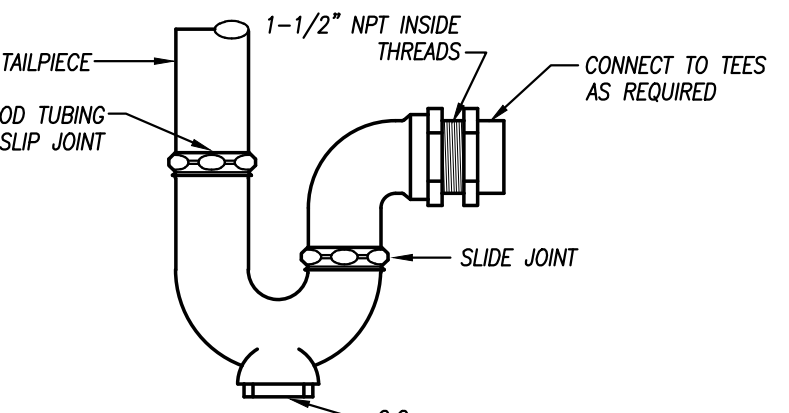
TYPICAL GAS CONNECTION

NOT TO SCALE



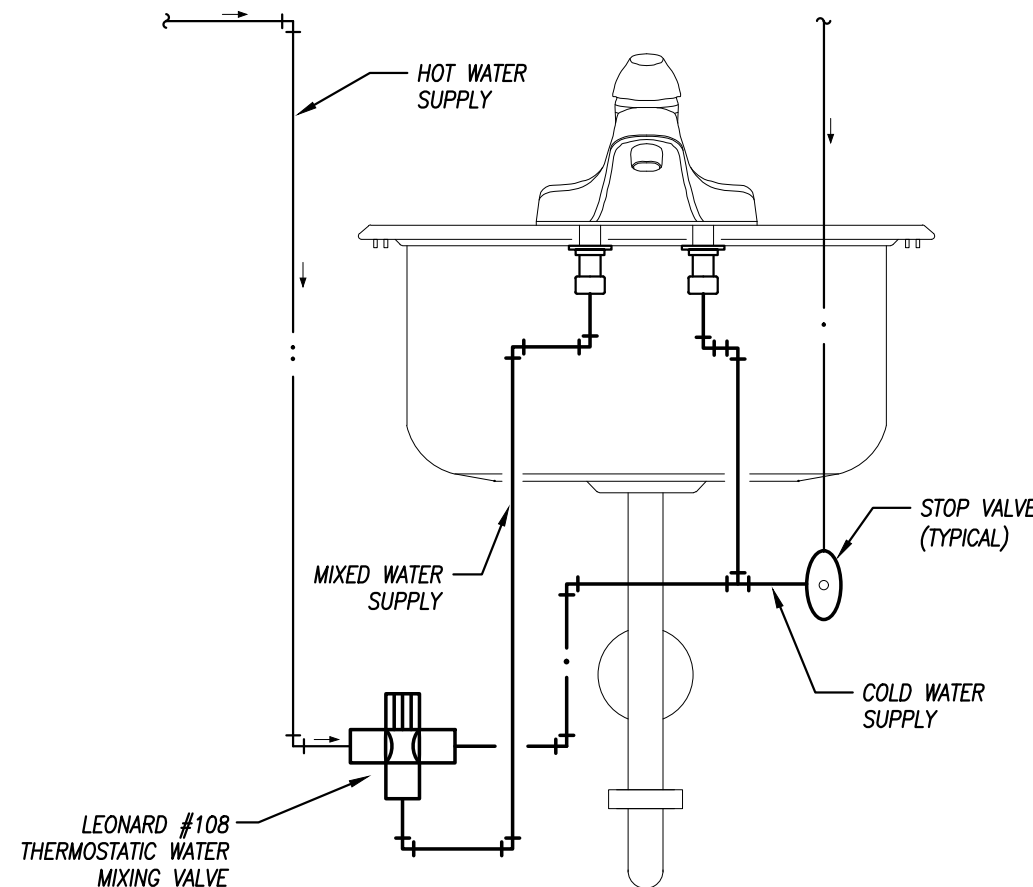
AIR GAP DETAIL

NOT TO SCALE



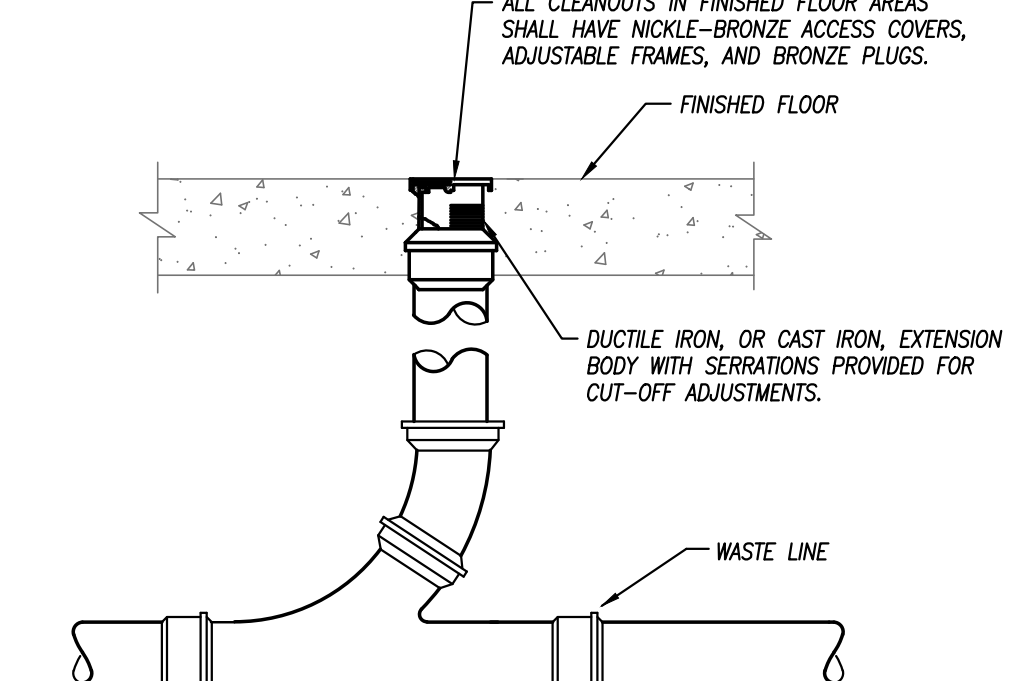
P-TRAP DETAIL

NOT TO SCALE



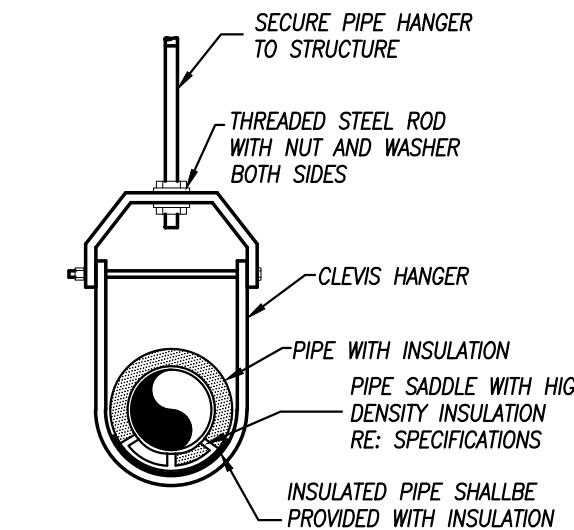
HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC

NOT TO SCALE



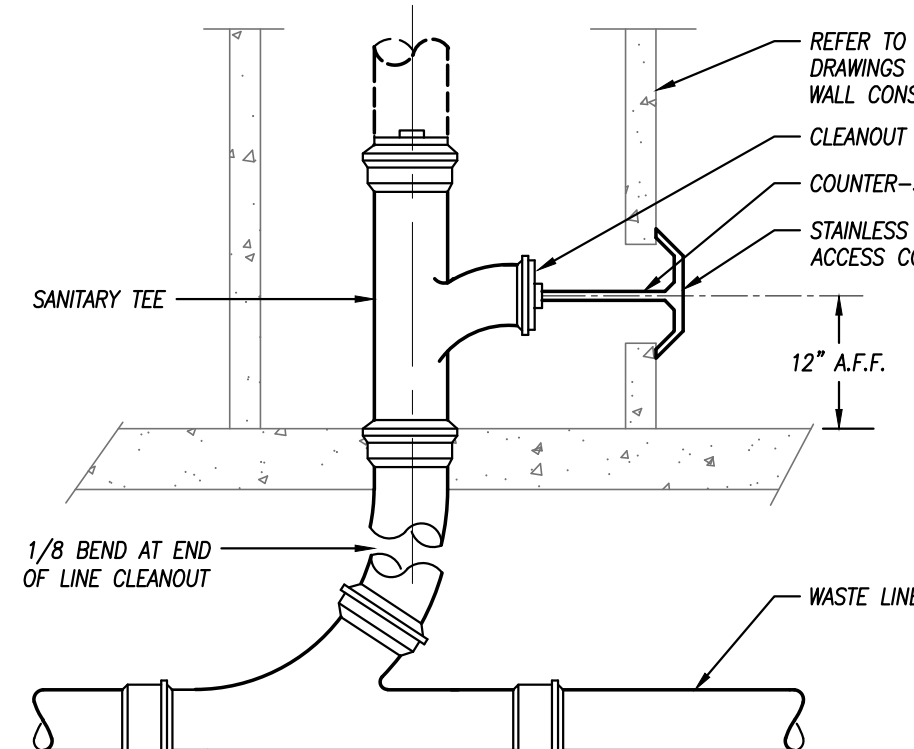
FLOOR CLEANOUT DETAIL

NOT TO SCALE



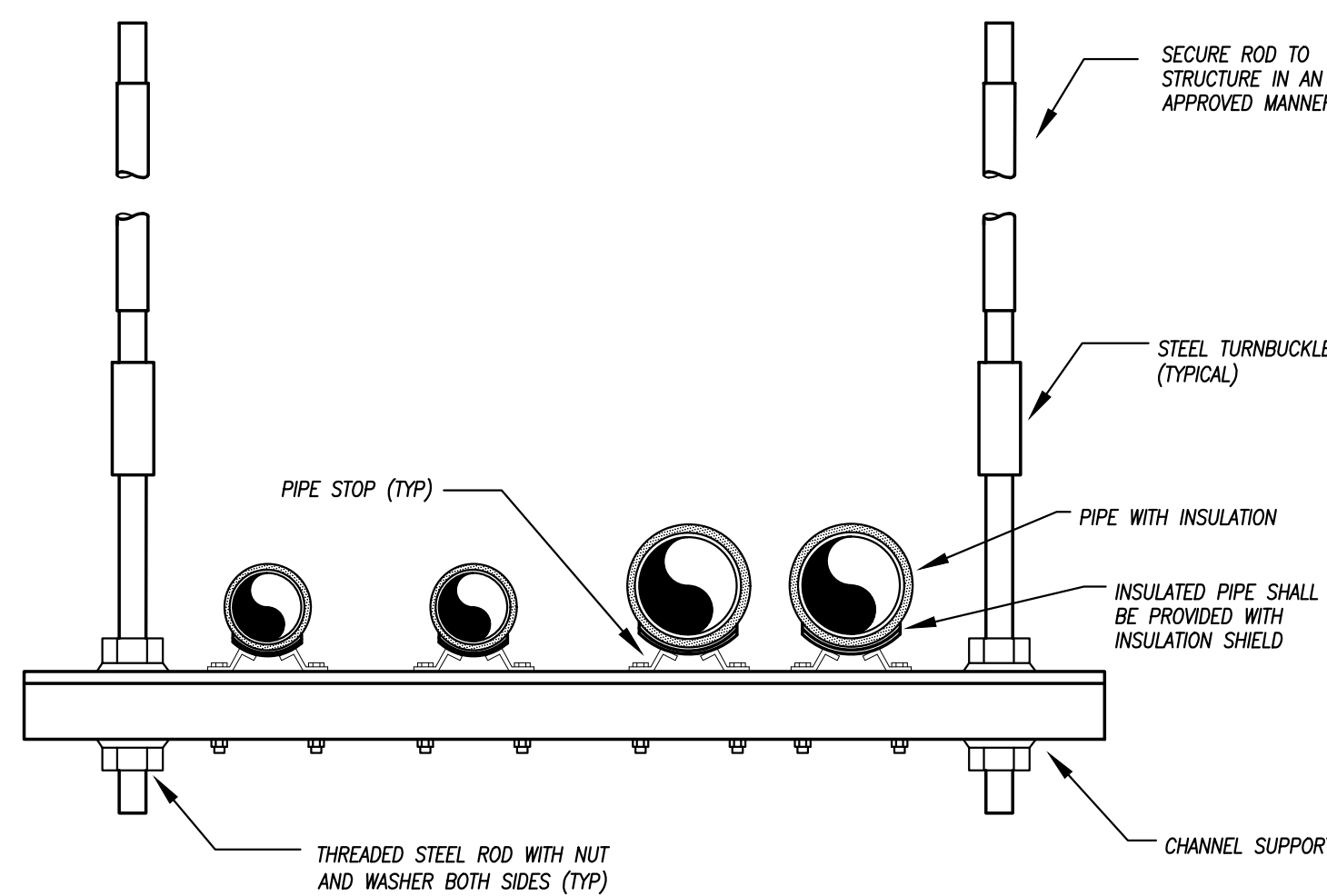
PIPE HANGER DETAIL

NOT TO SCALE



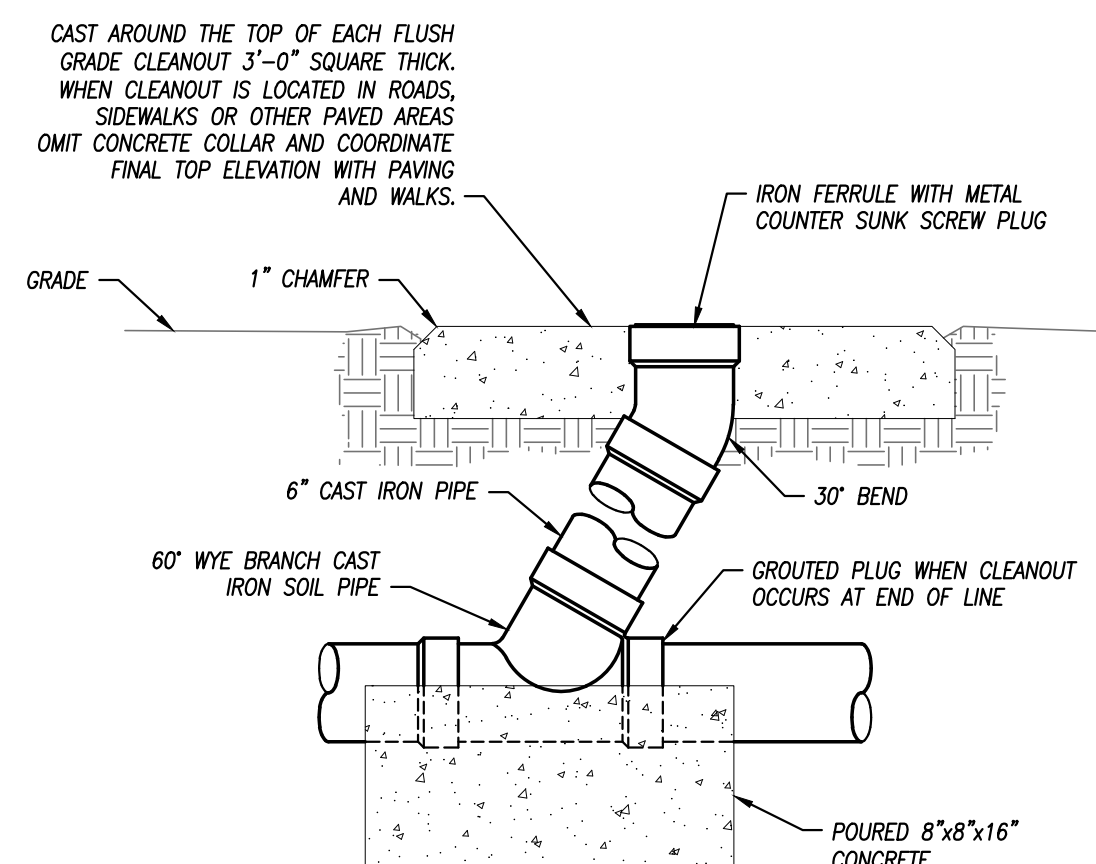
WALL CLEANOUT DETAIL

NOT TO SCALE



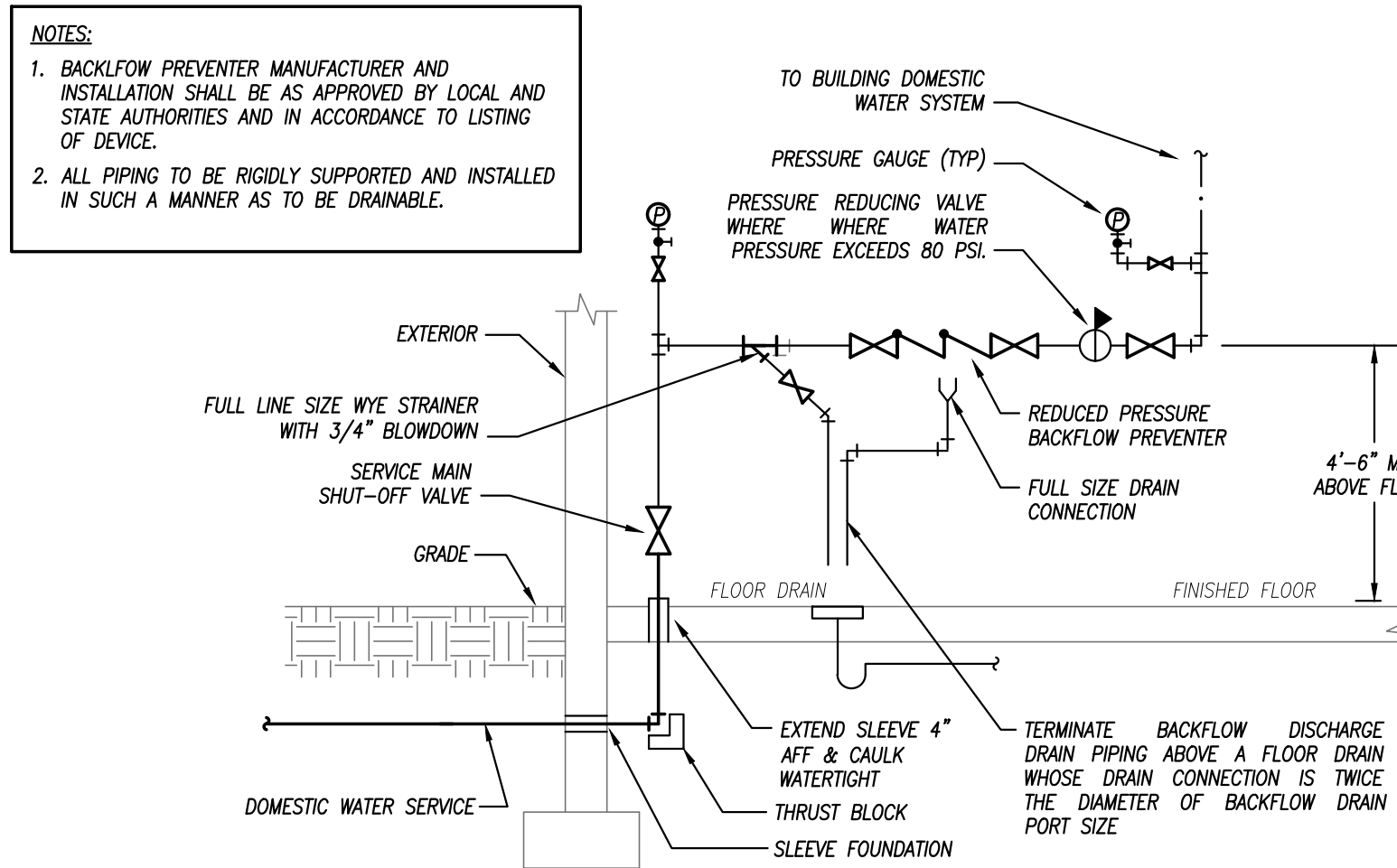
MULTIPLE PIPE TRAPEZE HANGER DETAIL

NOT TO SCALE



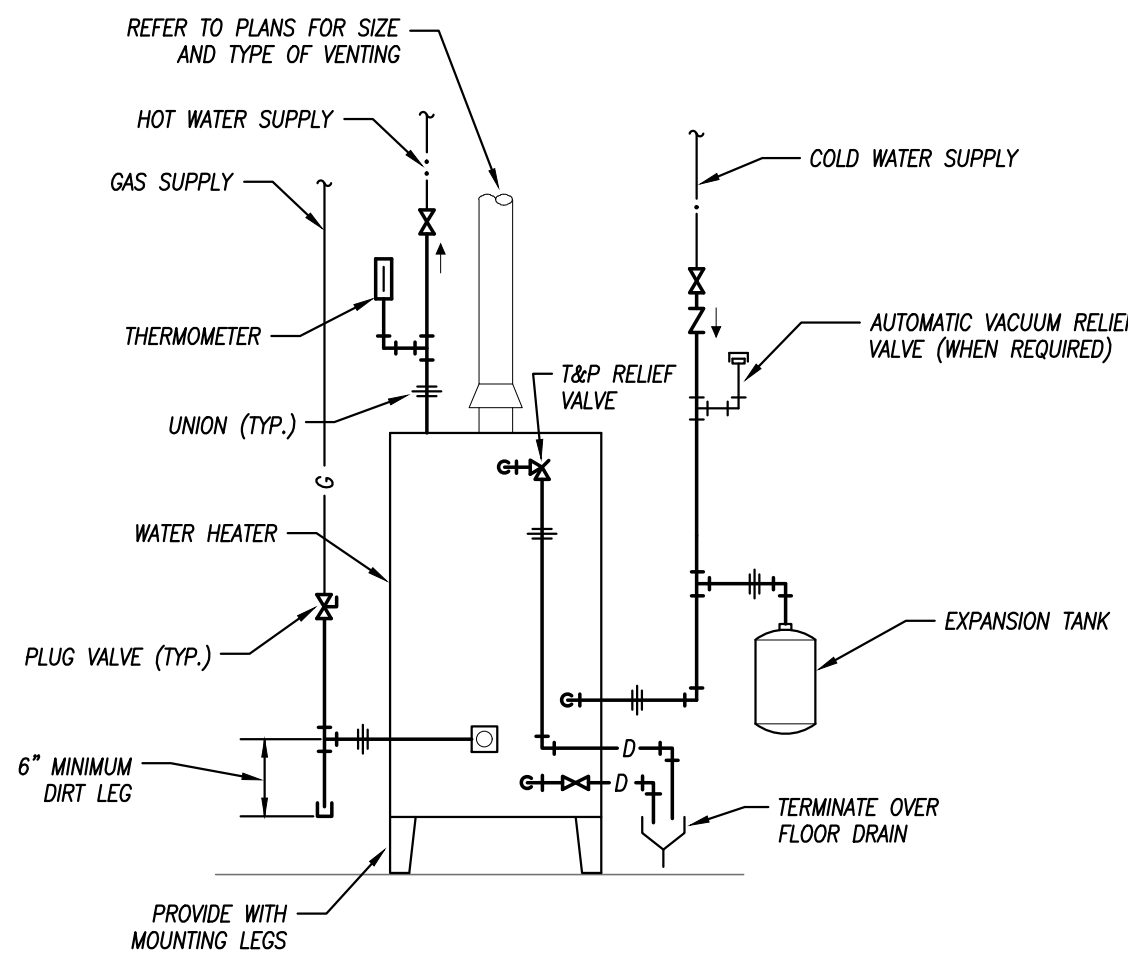
FLUSH GRADE CLEANOUT DETAIL

NOT TO SCALE



WATER SERVICE REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

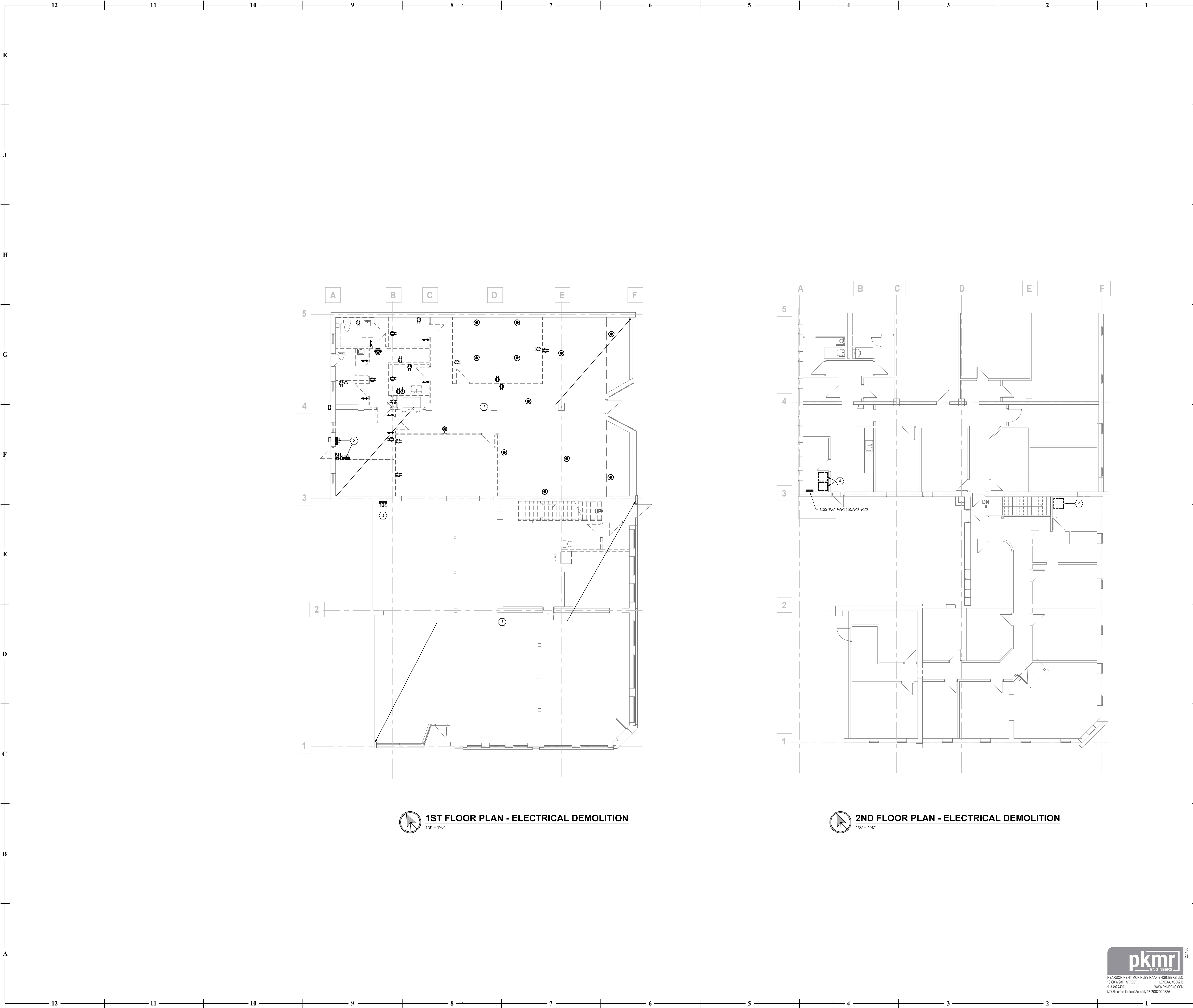
NOT TO SCALE



GAS WATER HEATER DETAIL

NOT TO SCALE





**GENERAL DEMOLITION NOTES**

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

**DEMOLITION PLAN KEYED NOTES**

1. REMOVE ALL FIXTURES, EQUIPMENT, AND DEVICES THIS AREA. REMOVE ALL WIRING/CONDUIT AND PIPING TO SAME NOT REQUIRED TO REMAIN.
2. REMOVE PANELBOARD AND MAINTAIN EXISTING CIRCUITS TO REMAIN. INCEPT AND EXTEND EXISTING BRANCH CIRCUITS NEW PANELBOARD IN NEW LOCATION. REFER TO NEW WORK DRAWINGS FOR MORE INFORMATION.
3. REMOVE EXISTING PANELBOARD. REMOVE FEEDERS AND BRANCH CIRCUITS TO SAME.
4. EXISTING FURNACE TO BE REPLACED. MAINTAIN EXISTING WIRING/CONDUIT TO RECONNECT TO NEW FURNACE.

RELEASED FOR CONSTRUCTION  
As Noted on Plans Review  
Development Services Department  
Lee's Summit, Missouri  
10/12/2022

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REVISION DATES:

STATE OF MISSOURI  
DAVID LAWRENCE  
REGISTERED PROFESSIONAL ENGINEER  
E-28880  
4/21/22

David Lawrence, Registered Professional Engineer  
PROFESSIONAL SEAL

E011

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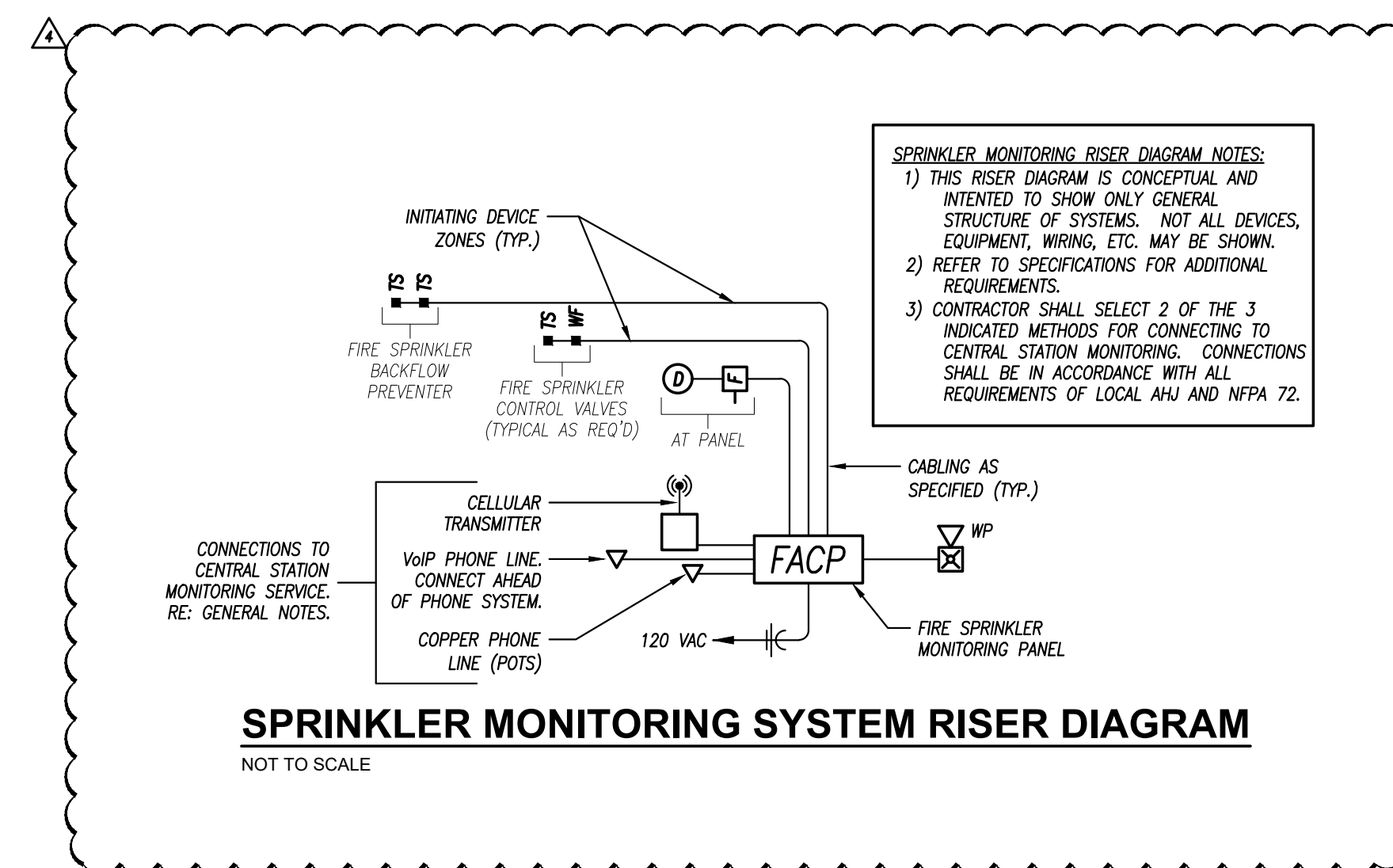
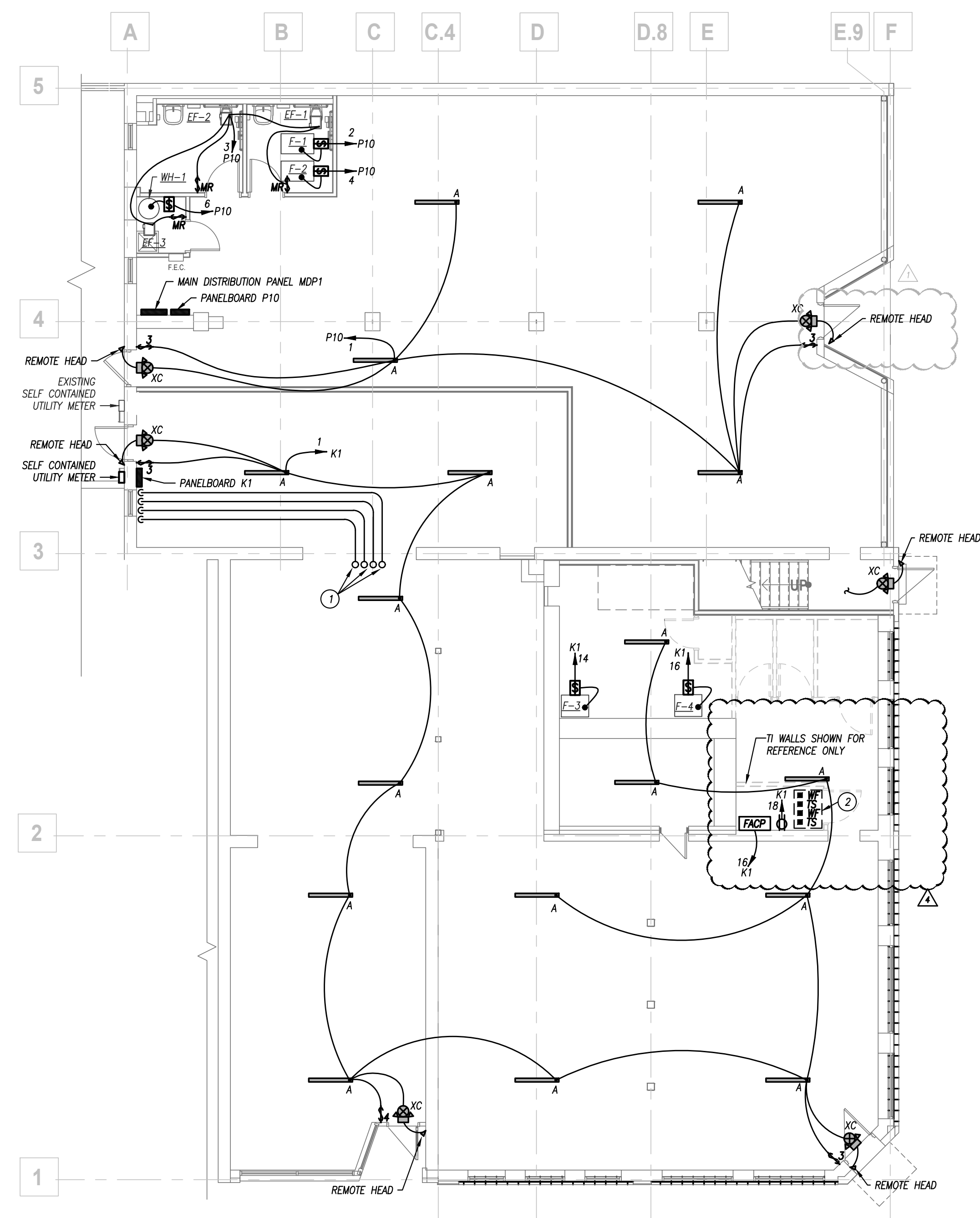
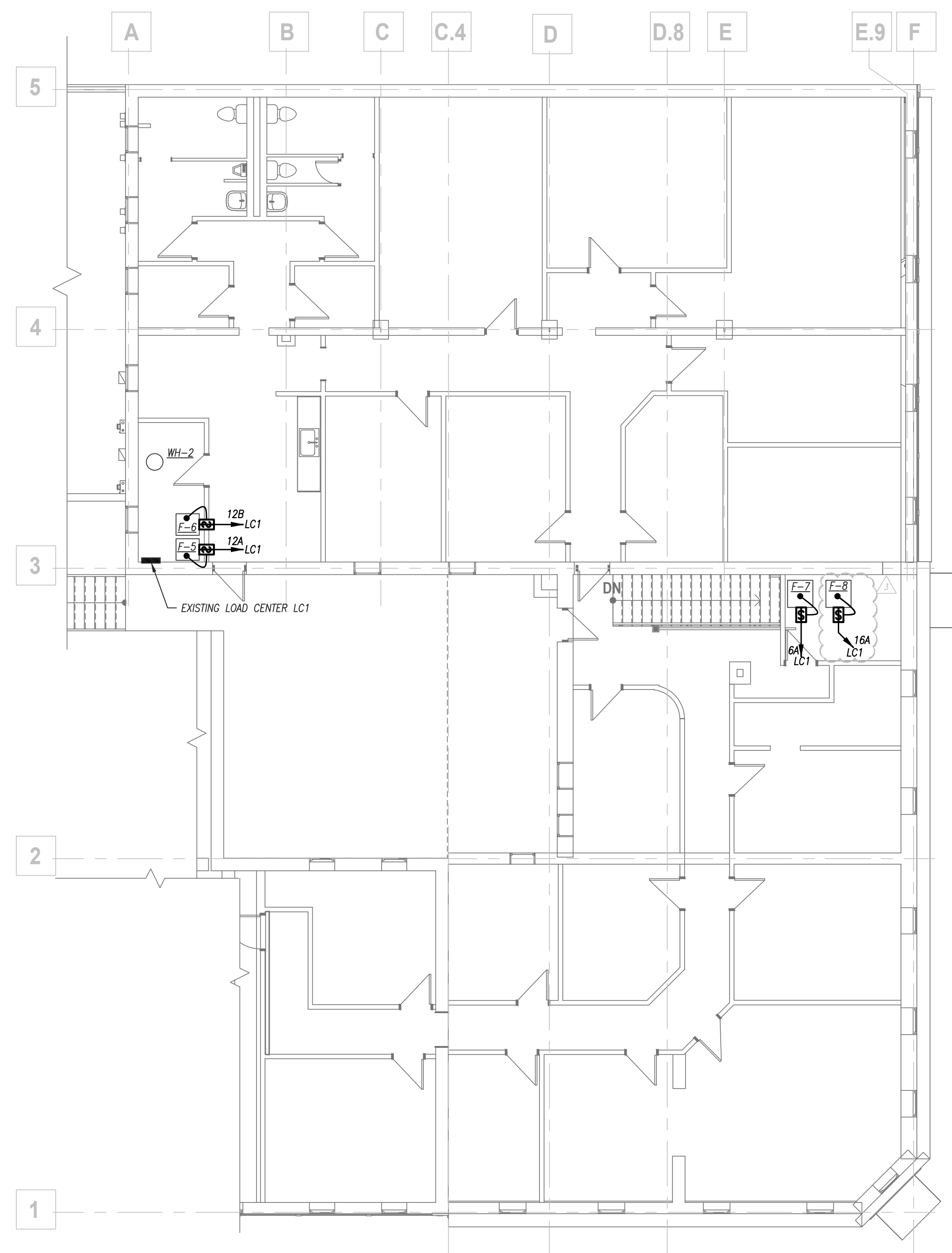
pkmr ENGINEERS

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913.482.2403 WWW.PKMRNG.COM  
MO State Certificate of Authority #E-0000020886

ELECTRICAL DEMOLITION - FLOOR PLANS

Permit Set





## GENERAL LIGHTING

### NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
- 3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE (L.F.) DASH-CHANNING OF FIXTURES IS NOT ALLOWED.
- 3.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED TO RACEWAY OR AN ACCESSIBLE WULF CAVITY.
- 3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (E/M/NEURAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
- 3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

### ELECTRICAL PLAN KEYED NOTES

- ① PROVIDE (3) 2" CONDUIT AND (1) 1" CONDUIT WITH PULL STINGS FOR FUTURE MECHANICAL EQUIPMENT. ROUTE CONDUIT TIGHT TO CEILING AND TURN UP THROUGH CEILING. PATCH ALL PENETRATIONS WATERTIGHT. CAP CONDUIT AT BOTH ENDS FOR FUTURE USE.
- ② COORDINATE EXACT NUMBER AND LOCATION OF TAMPER AND FLOW SWITCHES REQUIRED WITH FIRE SPRINKLER CONTRACTOR. WIRE SAME TO FIRE ALARM SYSTEM.





- 1 #1/0 GROUNDING ELECTRODE IN 1" CONDUIT.
- 2 EXISTING TO REMAIN.
- 3 PROVIDE METER AND WEATHERHEAD PER EVERY STANDARDS.
- 4 INTERCEPT AND EXTEND FEEDER TO NEW MDP LOCATION.
- 5 FIELD VERIFY FEEDER SIZE.
- 6 REMOVE EXISTING ELECTRICAL SERVICE.

EQUIPMENT FAULT CURRENT RATING SCHEDULE			
EQUIPMENT	SCA**	SCCR	NOTES
DISTRIBUTION PANELBOARD MDP1	11,046	22,000	1,2
PANELBOARD P10	10,664	22,000	1,2
PANELBOARD K1	9,924	22,000	1,2

**NOTES:**

1. RATING BASED ON AN ASSUMED FAULT AT UTILITY CO. TRANSFORMER OF 38,914A.

2. EQUIPMENT MAY BE SERIES RATED.

\*\* CALCULATIONS PERFORMED USING RUSSMANN POINT-TO-POINT METHOD.

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	168	125	210
RECEPTACLES	360	100% 1/200 + 50% REST	360
MOTORS	2,466	125 x LARGEST + SUM OF REST	2,760
AIR CONDITIONING	0	1.00	0
SPACE HEATING	0	1.00	0
HEAT PUMP	0	1.00	0
CONTINUOUS	500	125	625
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
SIZING LOAD:			3,395
SIZING LOAD (AMPS):			11

CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	1,344	11.2
B	1,290	10.7
C	860	7.2
TOTALS	3,494	9.7

REMARKS:

1. EATON POW-R-LINE 1X OR EQUAL.

## ELECTRICAL - RISER DIAGRAMS





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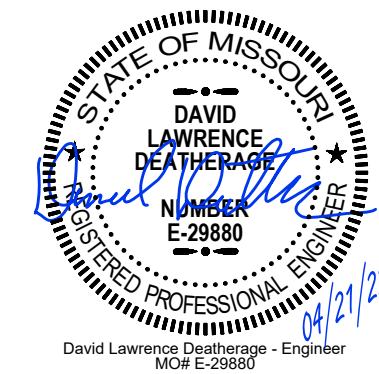
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REVISION DATES:



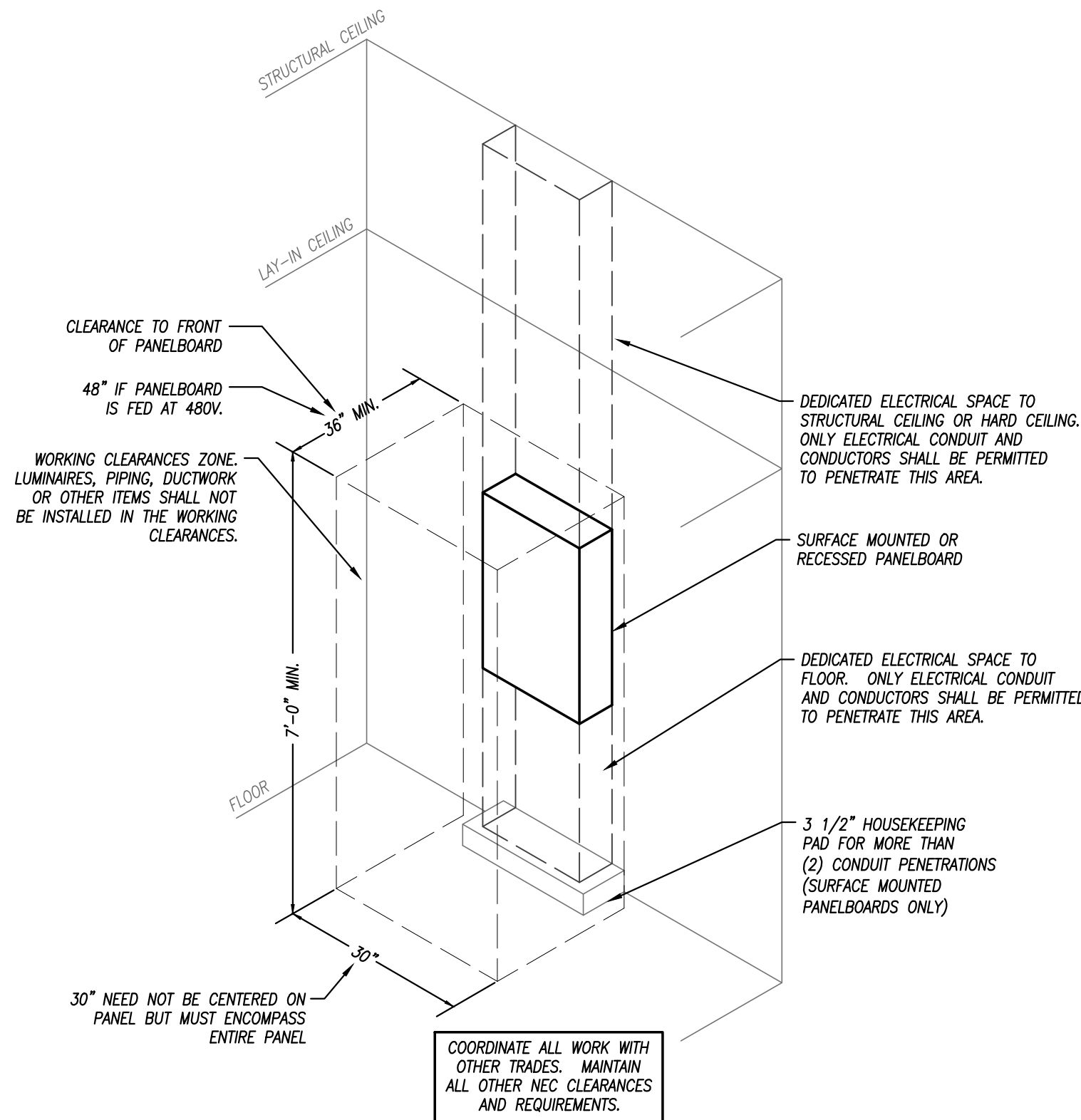
PROFESSIONAL SEAL

## E202

ISSUE DATE: APRIL 21, 2022  
COLLINS WEBB #: 21121

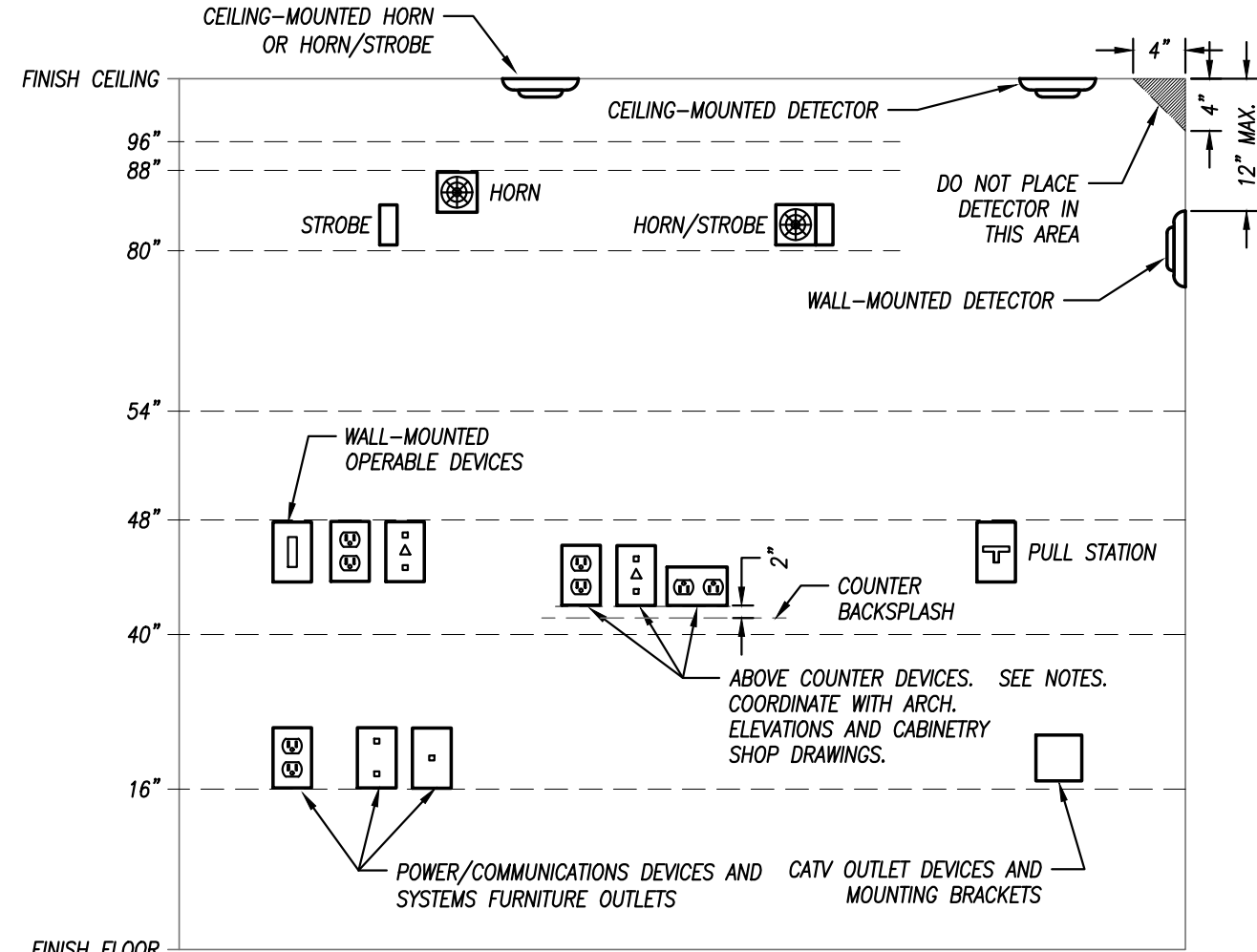


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TYPICAL PANELBOARD INSTALLATION DETAIL

NOT TO SCALE



**GENERAL NOTES:**  
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.  
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.  
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

**VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBES)**  
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

**AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORNS)**  
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 80" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA).

**FIRE ALARM ACTIVATION DEVICES (PULL STATION)**  
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

**POWER/COMMUNICATION DEVICES:**  
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

**WALL-MOUNTED OPERABLE DEVICES:**  
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

**WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:**  
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.  
PUSH BUTTONS  
NURSE/PATIENT CALL DEVICES (INCLUDING THOSE FOR STAFF USE)  
OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE

### LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER							REMARKS
				ID	WATTS	LUMENS	CRI	CCT	DIMMING	VOLTAGE	
A	WILLIAMS	SERIES 75S	4'-0" LONG COMMERCIAL-GRADE STRIP FIXTURE WITH SQUARE LENS. SURFACE MOUNT. WHITE FINISH.	L85	42	6500	80	3500K	NO	277/120	1
XC	DUAL-LITE	EVO SERIES	COMBINATION EMERGENCY LIGHTING UNIT / EXIT LIGHT. UV-STABLE THERMOPLASTIC HOUSING, FINISH WHITE. ADJUSTABLE EYEBALL STYLE LIGHTING HEADS WITH GLASS LENS FOR EMERGENCY LIGHT. EXIT SIGN TO HAVE RED LETTERS WITH DIRECTIONAL ARROWS AS INDICATED ON THE PLANS. MAINTENANCE-FREE LITHIUM ION PHOSPHATE BATTERY FOR 90 MINUTE OPERATION OF LAMPS AND EXIT SIGN. FURNISH WITH CAPACITY FOR REMOTE HEAD. FULLY AUTOMATIC, SOLID-STATE CHARGER WITH TEST SWITCH AND AC-ON LIGHT.	TOTAL POWER CONSUMPTION =							1
				EMERGENCY: FOUR (4) HIGH-OUTPUT							
				EXIT: FOUR (4) HIGH-OUTPUT LEADS							
		EVO	OUTDOOR REMOTE WITH 2 HEADS. BLACK FINISH.								

REMARKS:  
1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):  
1) EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.  
2) ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.  
3) ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.  
4) LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.