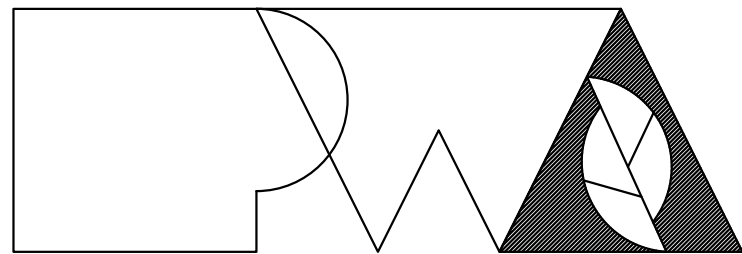


# NEW COMFORT STATION

## Missouri State Fairgrounds (MSF) Sedalia, Missouri



Peckham & Wright Architects, Inc., d.b.a.

### PWArchitects, Inc.

2120 Forum Blvd., Ste 101  
Columbia, Missouri 65203  
Ph:(573) 449-2683  
Fax:(573) 442-6213

OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

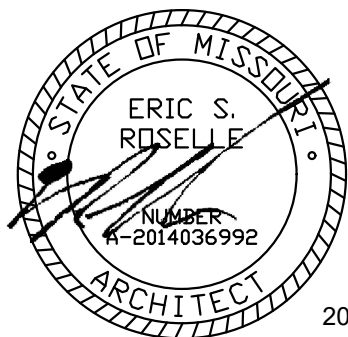
PROJECT  
MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER: PWArchitects, Inc.  
2120 Forum Blvd., Ste. 101  
Columbia, Missouri 65203

PROJECT NUMBER: FMDC Project No. F2206-01

SITE NUMBER: 1501  
ASSET NUMBER: 3511501146

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION



2022.08.10

SHEET NUMBER:

G-001

1 OF 20 SHEETS  
August 10, 2022







# MISSOURI STATE FAIRGROUNDS - COMFORT STATION

## SEDALIA, PETTIS COUNTY, MISSOURI

### PROJECT BENCHMARK:

TBM #1 - BENCH TIE, SW CORNER OF THE GRAVEL INTERSECTION NW OF THE PAVILION  
ELEVATION = 887.46'

### FLOOD PLAIN STATEMENT:

NO PART OF THIS TRACT IS LOCATED WITHIN THE 500-YEAR FLOODPLAIN AS PER THE CITY OF SEDALIA FIRM MAP #2902830001C DATED 01/05/1996.

### UTILITY COMPANIES:

#### LOCATES:

MISSOURI ONE CALL INC.  
1022 B NORTHEAST DRIVE  
JEFFERSON CITY, MO 65109  
1-800-344-7483



#### TELEPHONE:

CHARTER COMMUNICATIONS  
210 W. 7TH STREET  
SEDALIA, MO 65301  
866-874-2398

#### NATURAL GAS:

LIBERTY UTILITIES  
602 S JOPLIN AVE  
JOPLIN, MO 64801  
1-800-424-0427

#### CABLE TELEVISION:

AT&T  
5903 E. RED BRIDGE ROAD  
KANSAS CITY, MO 64134  
877-219-3898

#### WATER:

SEDALIA WATER DEPARTMENT  
111 WEST 4TH STREET  
SEDALIA, MO 65301  
660-826-1234

#### SANITARY SEWER:

CITY OF SEDALIA  
200 SOUTH OSAGE AVE.  
SEDALIA, MO 65301  
660-827-3000

#### ELECTRIC:

MISSOURI STATE FAIRGROUNDS CONTRACTOR  
660-530-5617

### GENERAL NOTES:

ALL STREET, STORM DRAIN, AND SANITARY SEWER CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF SEDALIA AND MISSOURI STATE FAIRGROUND'S GUIDANCE AND SPECIFICATIONS.

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

A GEOTECHNICAL EVALUATION HAS BEEN PERFORMED BY CROCKETT GEOTECHNICAL TESTING LAB (GTL). REFER TO REPORT NUMBER G19478 DATED OCTOBER 21ST, 2019 BY CROCKETT GTL.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE M&DNR CLEAN WATER COMMISSION.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" SHALL BE FINE GRADED. (SEEDING AND MULCHING BY OTHERS).

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

ALL SERVICE LATERALS SHALL BE INSTALLED AT 1.0% (MIN.) GRADE.

ALL EXCAVATION WITHIN 10' OF THE STREET PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL. REFER TO PIPE EMBEDMENT DETAILS.

ALL SEWERLINES SHALL BE CONSTRUCTED AT LEAST 10 FEET HORIZONTALLY, EDGE TO EDGE, FROM ANY WATERLINE AND AT LEAST 24 INCHES VERTICALLY BETWEEN THE OUTSIDE LIMITS OF THE SANITARY SEWER AND WATERLINE. FOR CONDITIONS OTHER THAN THOSE IDENTIFIED ABOVE, CONTACT THE ENGINEER FOR SPECIFIC INSTRUCTIONS.

ALL HDPE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

LAND DISTURBANCE SITES SHOULD BE INSPECTED ON A REGULAR SCHEDULE AND WITHIN A REASONABLE TIME PERIOD (NOT TO EXCEED 48 HOURS) FOLLOWING HEAVY RAINS. REGULARLY SCHEDULED INSPECTIONS SHALL BE AT A MINIMUM OF ONCE PER WEEK. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT.

ALL UTILITY LINES SHALL BE BACKFILLED W/ GRANULAR AND COMPACTED EARTH BACKFILL.

ESTIMATED AREA OF DISTURBANCE IS 0.20 ACRES.

MISSOURI DNR LAND DISTURBANCE PERMIT NOT REQUIRED.

### ALTERNATE #4 GENERAL NOTES:

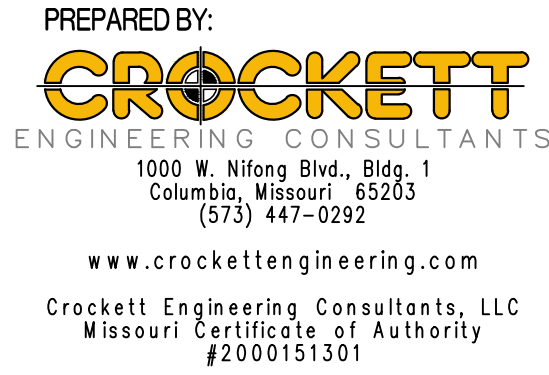
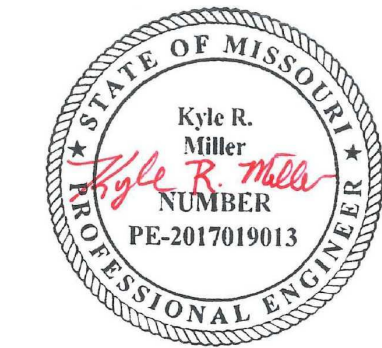
FINE-GRADE, SEED, AND MULCH ALL DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE

### LEGEND OF SYMBOLS:

----	EXISTING CURB
=====	PROPOSED CURB
	RIP RAP
	EXISTING STRUCTURE
	EXISTING TREELINE
	PROPOSED TREELINE
	EDGE OF WATERWAY
--- W ---	EXISTING WATERLINE
--- W ---	PROPOSED WATERLINE
--- G ---	EXISTING GAS LINE
--- G ---	PROPOSED GAS LINE
-- --UT-- --	EXISTING UNDERGROUND TELEPHONE
-- --UTV-- --	EXISTING UNDERGROUND CABLE TELEVISION
-- --HVE-- --	EXISTING HIGH VOLTAGE ELECTRIC
-- --OE-- --	EXISTING OVERHEAD ELECTRIC
-- --UE-- --	EXISTING UNDERGROUND ELECTRIC
-- --OETV-- --	EXISTING OVERHEAD ELEC. & TV
-- --OETV-- --	EXISTING OVERHEAD ELEC., TV & TELE.
--- S ---	EXISTING SANITARY SEWER
--- S ---	PROPOSED SANITARY SEWER
---XXX---	EXISTING MINOR CONTOUR
---XXX---	EXISTING MAJOR CONTOUR
---XXX---	PROPOSED MINOR CONTOUR
---XXX---	PROPOSED MAJOR CONTOUR
TTTTTTTT	100 YEAR FLOOD PLAIN
TTTTTTTTT	FLOODWAY
=====	ORDINARY HIGH WATER MARK
=====	STREAM SIDE BUFFER
=====	OUTER STREAM BUFFER
> > >	SWALE

FF-XXXX	FINISH FLOOR OF STRUCTURE
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED TOP OF PAVEMENT ELEVATION
	PROPOSED FINISH GRADE ELEVATION
	PROPOSED TOP OF WALL
	LOT NUMBER
	STORM SEWER STRUCTURE LABEL
HP.	HIGH POINT
LP.	LOW POINT
	EXISTING SIGNS
	EXISTING POWER POLE
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING GAS METER
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	MANHOLE
	EXISTING SANITARY SEWER LATERAL
	PROPOSED SANITARY SEWER LATERAL
	PROPOSED TRACER WIRE TEST STATION BOX
	EXISTING AIR CONDITIONER
	EXISTING TELEPHONE PEDESTAL
	EXISTING ELECTRICAL TRANSFORMER
	EXISTING ELECTRIC METER
	EXISTING LIGHT POLE
	EXISTING GUY WIRE

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

NEW COMFORT STATION

MISSOURI STATE  
FAIRGROUNDS (MSF)  
2503 W. 16TH St.  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 3511501146

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 08/10/2022

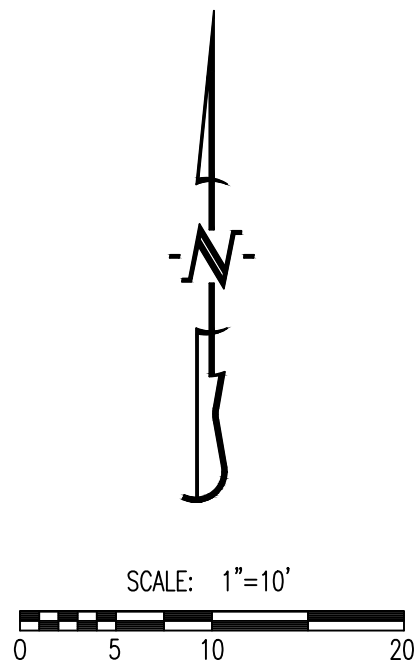
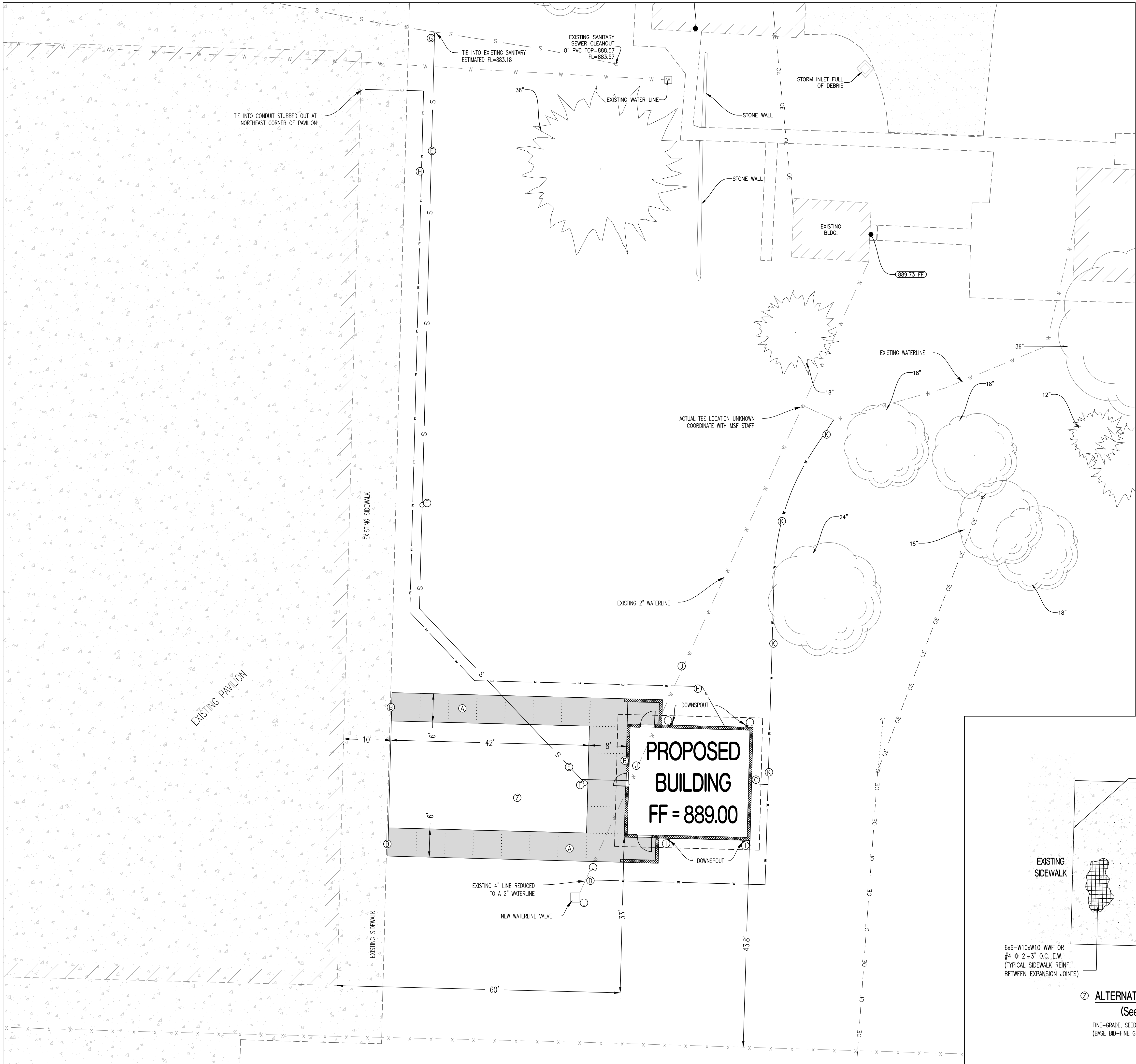
CAD DWG FILE: C-100  
DRAWN BY: KRM  
CHECKED BY: TDC  
DESIGNED BY: KRM

SHEET TITLE:  
GENERAL CIVIL  
INFORMATION

SHEET NUMBER:

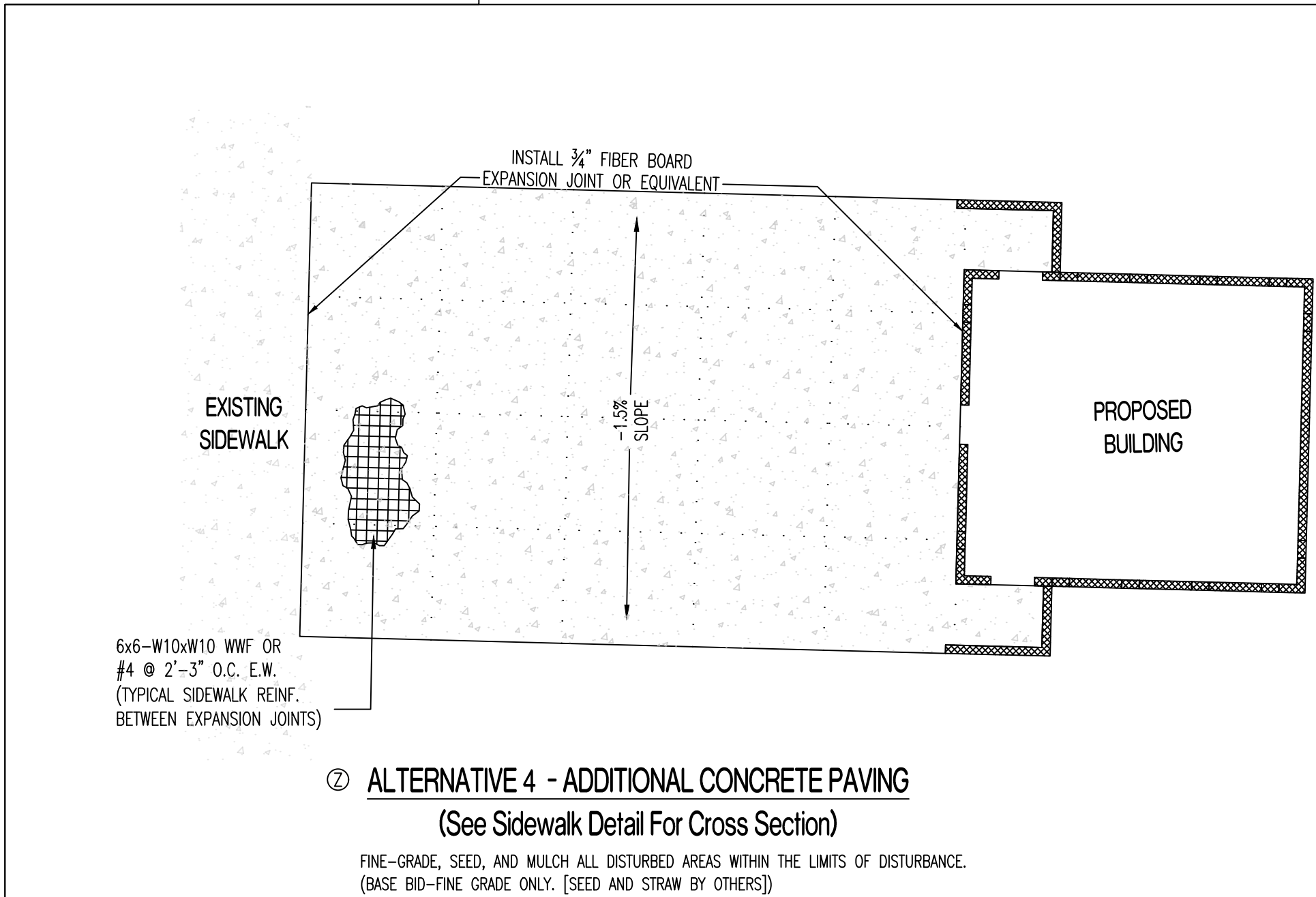
C-100



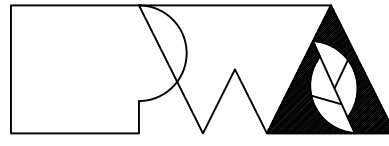


- GENERAL NOTES:
- 1) EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION.
  - 2) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUIRE ALL EXISTING UTILITY LOCATES PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ANY DAMAGED OR BROKEN UTILITIES TO ORIGINAL OR BETTER CONDITION.
  - 3) ALL UTILITY LINES SHALL BE BACKFILLED WITH GRANULAR AND COMPACTED EARTH BACKFILL.
  - 4) THE PAVEMENT JOINTS SHOWN ARE A GRAPHICAL REPRESENTATION OF A POSSIBLE JOINT LAYOUT. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH JOINT LAYOUT FOR APPROVAL BY ENGINEER PRIOR TO POURING OF PAVEMENT.

- LEGEND OF LABELS
- Ⓐ CONSTRUCT 5" THICK, CONCRETE SIDEWALK WITH DIMENSIONS AS SHOWN. REFER TO SHEET C-103 FOR SPOT ELEVATIONS FOR ADA COMPLIANCE. REFER TO CROSS-SECTIONS ON C-103.
  - Ⓑ INSTALL 3/4" EXPANSION JOINT, BETWEEN EXISTING CONCRETE AND NEW CONCRETE, AS WELL AS BETWEEN NEW CONCRETE AND BUILDING FOUNDATION.
  - Ⓒ INSTALL 2" WATER SERVICE LINE TO BUILDING. REFER TO MEP PLANS FOR BUILDING ENTRANCE LOCATION.
  - Ⓓ CONNECT 2" WATER SERVICE LINE TO EXISTING REDUCER LOCATED APPROXIMATELY 5' NORTH OF PIT.
  - Ⓔ INSTALL 4" SANITARY SEWER LATERAL. LATERAL TO BE INSTALLED AT 1 1/2 MIN. GRADE.
  - Ⓕ INSTALL 4" STANDARD SANITARY SEWER CLEANOUT.
  - Ⓖ CONNECT LATERAL TO SEWER MAIN WITH WYE CONNECTION AND AT FLOWLINE AS SHOWN ON THIS SHEET.
  - Ⓗ PROPOSED ELECTRICAL ROUTE. REFER TO MEP PLANS FOR DETAILS.
  - Ⓛ INSTALL PRECAST SPLASH BLOCKS AT THE BOTTOM OF EACH BUILDING DOWNSPOUT. (4) TOTAL.
  - Ⓜ EXISTING 2" WATERLINE SERVING RESTROOM BUILDING AND HOME TO THE NORTH TO BE ABANDONED. EXACT LOCATION UNKNOWN. COORDINATE WITH MSF STAFF.
  - Ⓝ TEE NEW 2" WATERLINE AND EXTEND A 1" POLY LINE TO RECONNECT TO WATERLINE SERVING JUST THE HOUSE. COORDINATE WITH MSF STAFF. WORK TO BE DONE IF HOUSE IS NOT DEMOED PRIOR TO THIS WORK.
  - Ⓞ WITHIN THE EXISTING METER PIT, ADD A 2"x2" TEE, AND APPROPRIATE HOSE BIBB WITH VALVE TO BE ABLE TO DRAIN WATERLINE. ALSO ADD A 2" VALVE ON THE INCOMING SIDE OF THE LINE TO PROVIDE SHUTOFF FEATURE IF SUCH VALVE IS NOT ADDED AT THE CONNECTION. WATER TO GRAVITY DRAIN INTO PIT.



STATE OF MISSOURI  
MICHAEL L. PARSON,  
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Missouri State Certificate of Authority No. 000244

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Crockett Engineering Consultants, LLC  
Missouri Certificate of Authority  
#2000151301

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

NEW COMFORT STATION

MISSOURI STATE  
FAIRGROUNDS (MSF)  
1814 S LIMIT AVE  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 3511501146

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 08/10/2022

CAD DWG FILE: C-101  
DRAWN BY: KRM  
CHECKED BY: TDC  
DESIGNED BY: KRM

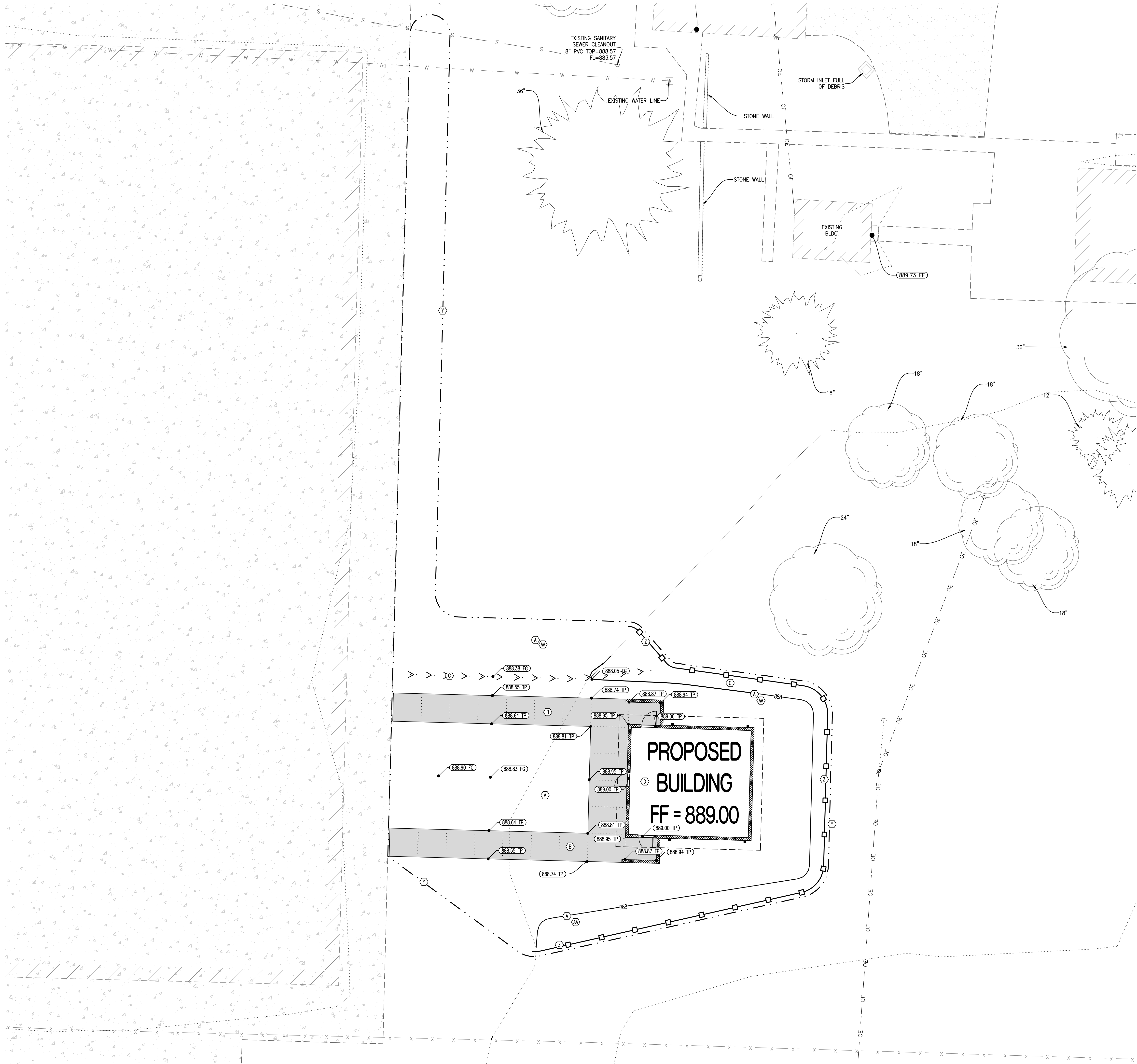
SHEET TITLE:

SITE AND  
UTILITY PLAN

SHEET NUMBER:

C-101





GRADING - LEGEND OF SYMBOLS:

- XXX--- EXISTING MINOR CONTOUR
- - - - - XXX - - - - - EXISTING MAJOR CONTOUR
- XXX--- PROPOSED MINOR CONTOUR
- XXX--- PROPOSED MAJOR CONTOUR
- FF=XXXX FINISHED FLOOR OF STRUCTURE
- (XXX.XX TP) PROPOSED TOP OF PAVEMENT ELEVATION
- (XXX.XX FG) PROPOSED FINISH GRADE ELEVATION
- (XXX.XX FF) PROPOSED FINISH FLOOR AT DOOR
- (XXX.XX EX TP) EXISTING TOP OF PAVEMENT ELEVATION
- > > > SWALE

GRADING - LEGEND OF LABELS

- (A) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL. (SEEDING AND MULCH BY OTHERS)
- (B) INSTALL PAVEMENT WITH GRADES AS SHOWN TO MEET ADA COMPLIANCE.
- (C) GRADE ADJACENT SIDE YARD WITH SMALL SWALE TO DRAIN WATER AWAY FROM BUILDING AND PAVEMENT.
- (D) PROPOSED BUILDING TO HAVE 18" OF LOW VOLUME CHANGE INSTALLED.

ALTERNATE #4 - LEGEND OF LABELS

- (MA) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL, FINE-GRADE, SEED, AND MULCH ALL DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE .

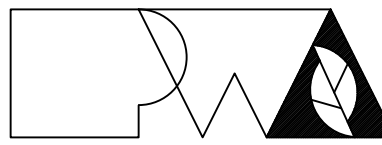
EROSION CONTROL - LEGEND OF SYMBOLS:

- . . - LIMITS OF DISTURBANCE
- - - - - SILT FENCE

EROSION CONTROL - LEGEND OF LABELS

- (Y) PROJECT'S LIMITS OF DISTURBANCE. ESTIMATED AREA OF DISTURBANCE IS 0.20 ACRES.
- (Z) INSTALL SILT FENCE AS SHOWN. REFER TO DETAIL ON SHEET C-103.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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OFFICE OF ADMINISTRATION  
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DESIGN AND CONSTRUCTION

NEW COMFORT STATION

MISSOURI STATE  
FAIRGROUNDS (MSF)  
1814 S LIMIT AVE  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 3511501146

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 08/10/2022

CAD DWG FILE: C-102  
DRAWN BY: KRM  
CHECKED BY: TDC  
DESIGNED BY: KRM

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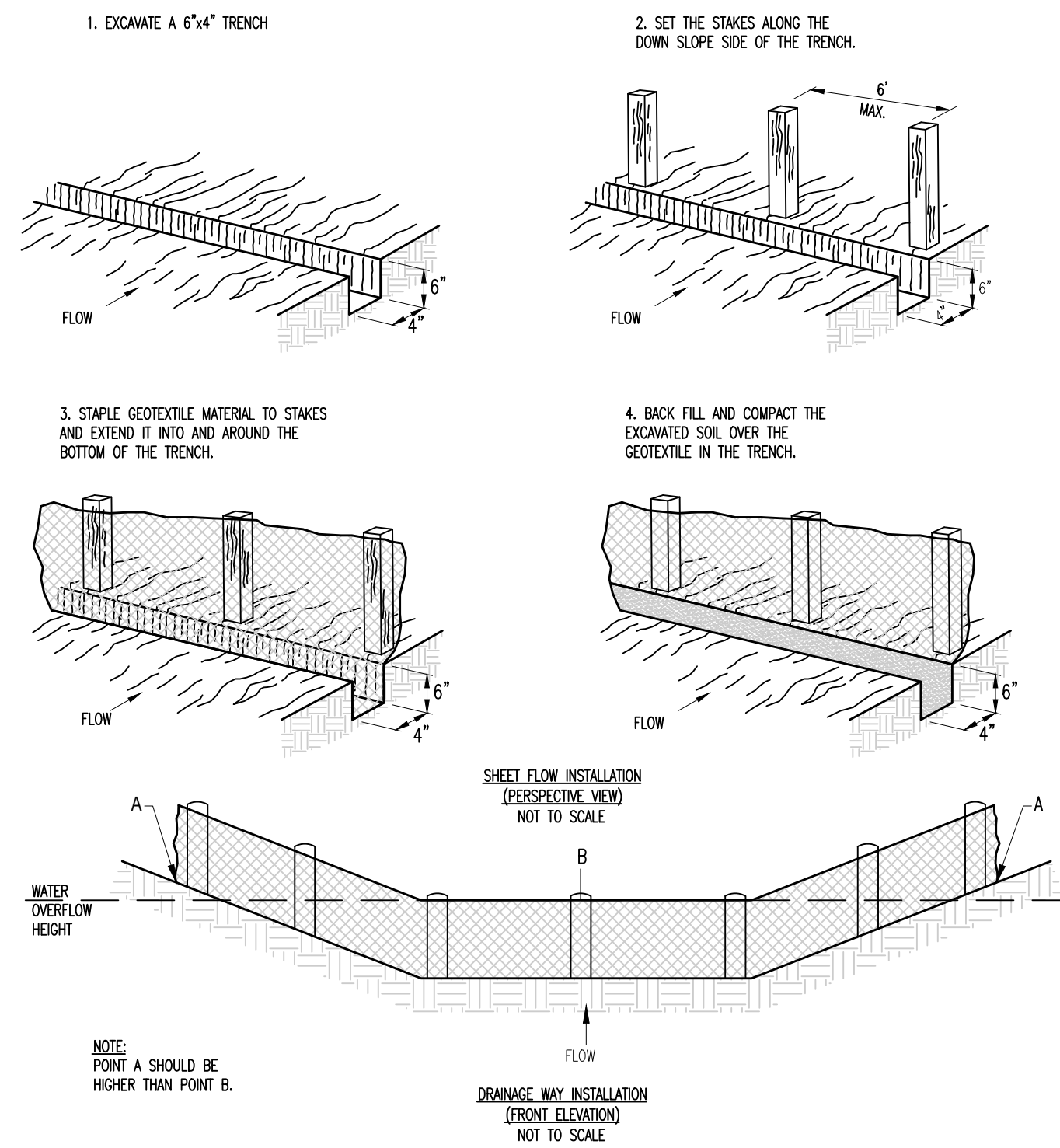
GRADING AND  
EROSION CONTROL  
PLAN

SHEET NUMBER:

C-102

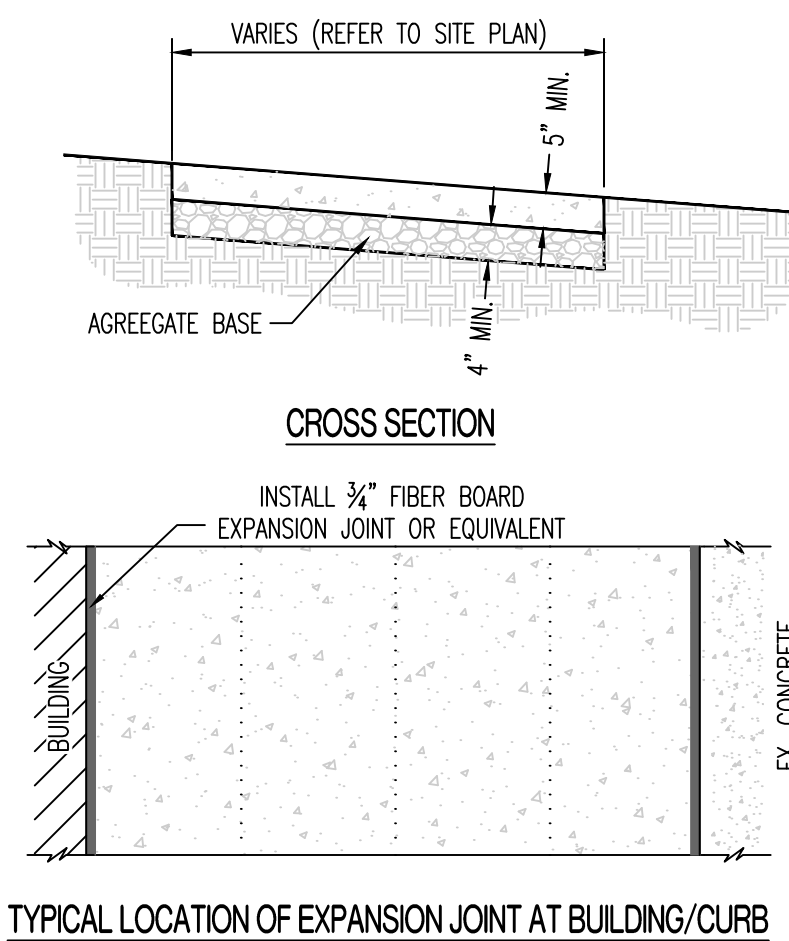


EROSION CONTROL DETAIL



SILT FENCE

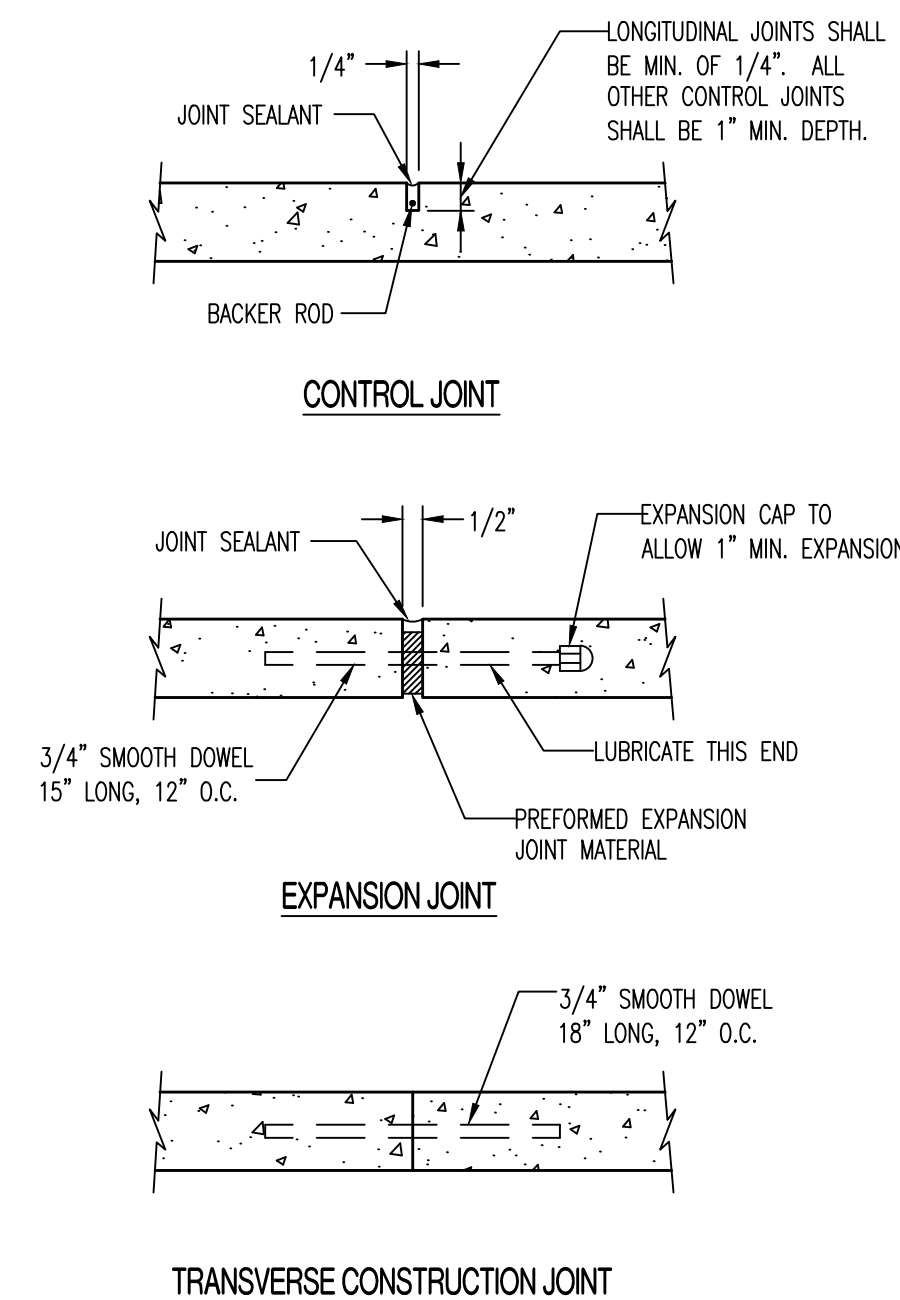
## PAVEMENT DETAILS



NOTE:

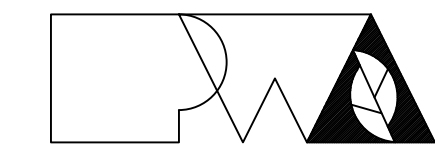
1. SIDEWALK SHALL BE 5" THICK CLASS A CONCRETE ON 4" AGGREGATE BASE.
3. INSTALL 3/4 EXPANSION JOINT BETWEEN BUILDING AND NEW CONCRETE.

### TYPICAL CONCRETE SIDEWALK



NOTE:  
SEE SPECIFICATIONS - 1000.01B THRU 1000.01D.

### SIDEWALK JOINT DETAILS (1000.03)



Peckham & Wright Architects, Inc., d.b.a.  
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NEW COMFORT STATION

MISSOURI STATE  
FAIRGROUNDS (MSF)  
1814 S LIMIT AVE  
SEDALIA, MO

PROJECT #	F2206-01
SITE #	1501
ASSET #	3511501146

REVISION: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 08/10/2022

CAD DWG FILE: C-103  
DRAWN BY: KRM  
CHECKED BY: TDC  
DESIGNED BY: KRM

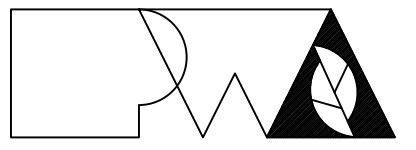
SHEET TITLE:

# CONSTRUCTION DETAILS

SHEET NUMBER:

C-103





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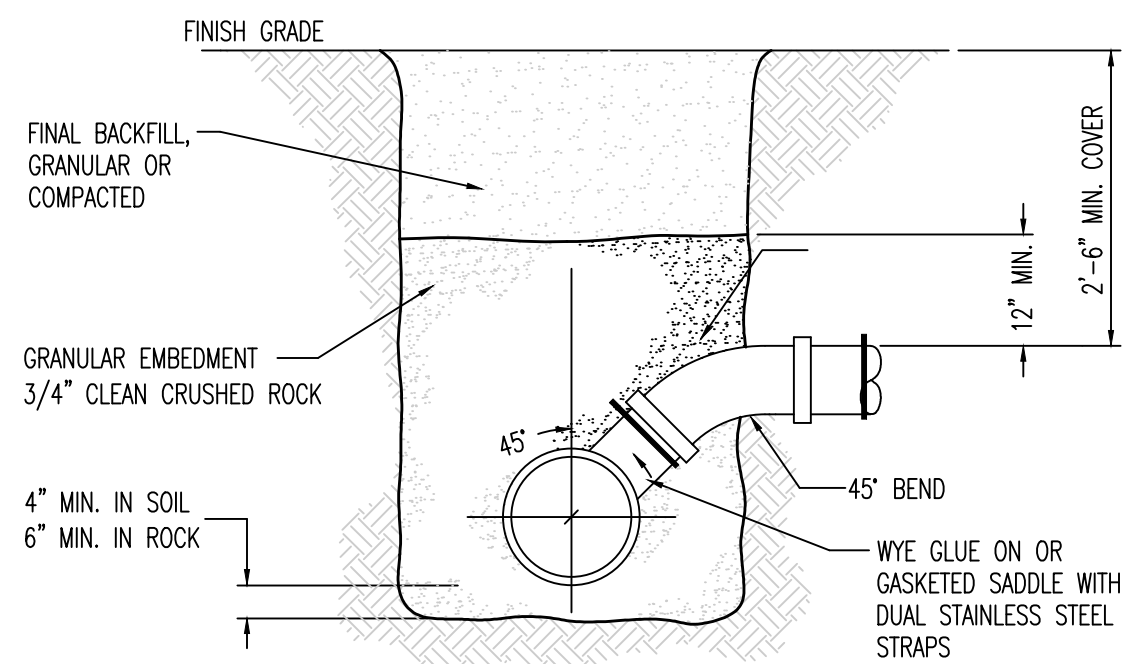
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CHECKED BY: TDC  
DESIGNED BY: KRM

SHEET TITLE:

## CONSTRUCTION DETAILS

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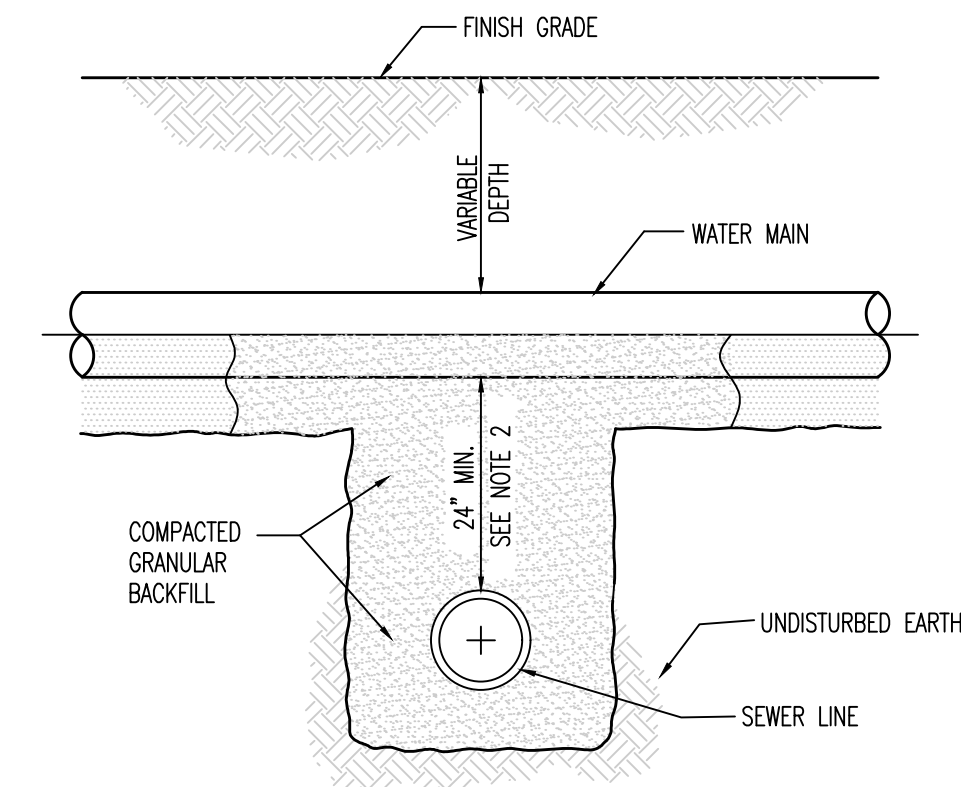
C-104



NOTES:

1. VCP PIPES SHALL NOT BE TAPPED. REPLACE SECTION OF VCP WITH PVC AND FITTING.

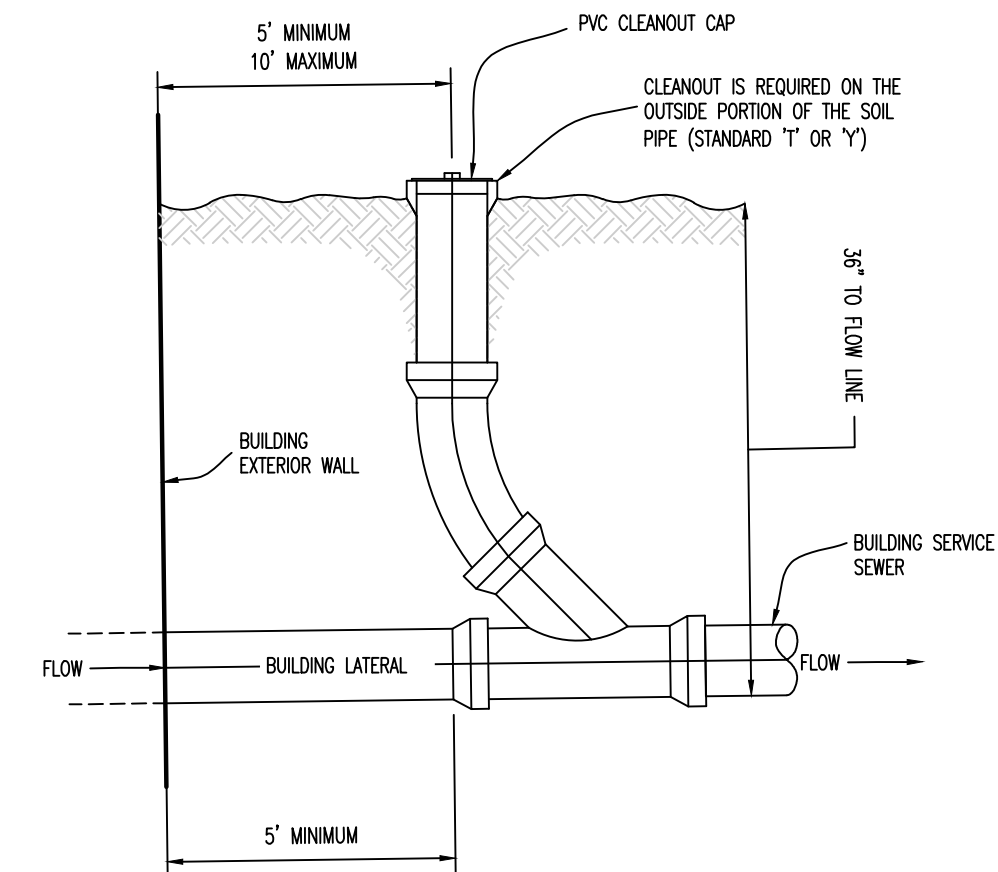
### STANDARD SERVICE CONNECTION DETAIL - WYE DETAIL



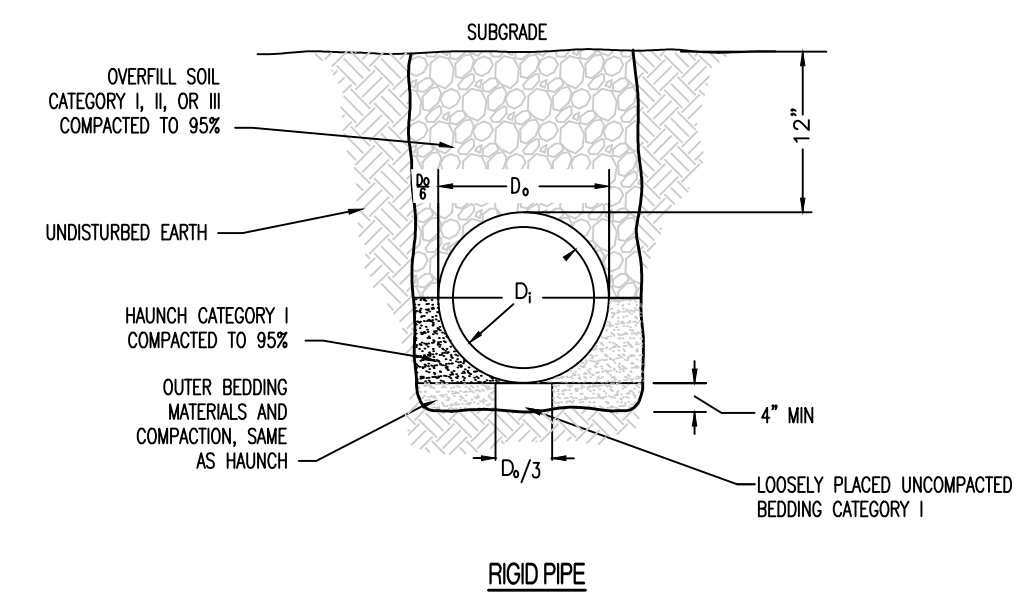
NOTES:

1. SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A VERTICAL SEPARATION THAT IS NO LESS THAN 24 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN.
2. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER LINE CROSSES BELOW THE WATER LINE. CROSSINGS IN WHICH THE SEWER LINE IS ABOVE THE WATER LINE WILL ONLY BE APPROVED ON A CASE BY CASE BASIS.
3. THE CROSSING SHALL BE ARRANGED SO THAT THE ENDS OF A FULL SIZE PIPE WILL BE EQUIVALENT FROM THE WATER MAIN AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
4. IF THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND SEWER MAIN IS LESS THAN 18 INCHES, THE SEWER MAIN SHALL BE D.I.P. OR PRESSURE RATED PVC PIPE WITH A PRESSURE RATING EQUAL TO OR EXCEEDING THAT OF THE WATER MAIN. THE D.I.P. OR PRESSURE RATED P.V.C. MUST BE EXTENDED A DISTANCE 10 FEET ON BOTH SIDES OF THE WATER MAIN. THE TRANSITION BETWEEN PIPE MATERIALS SHALL BE ACCOMPLISHED WITH A RESTRAINED MECHANICAL TYPE JOINT OR FITTING. FLEXIBLE TYPE (FERROCO) FITTINGS ARE NOT ACCEPTABLE.
5. PRESSURE SEWER LINE AND WATER LINE CROSSINGS SHALL BE REVIEWED ON A CASE BY CASE BASIS.

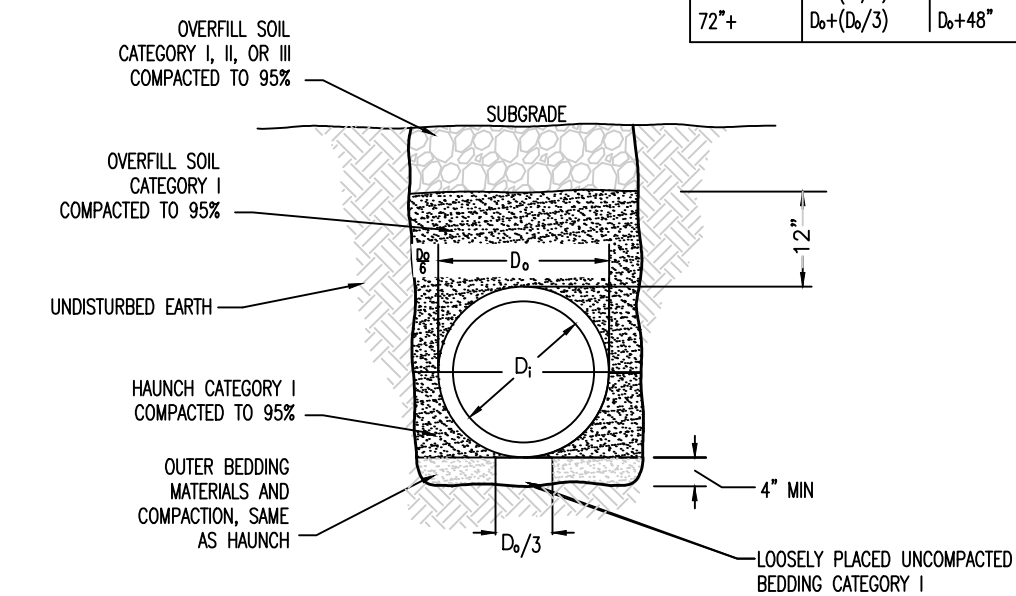
## GRAVITY SEWER AND WATER LINE CROSSING



## STANDARD SANITARY CLEANOUT



PIPE DIAMETER	PAYLINE/ MIN. TRENCH WIDTH	MAX. TRENCH WIDTH
8"-36"	D <sub>o</sub> +12"	D <sub>o</sub> +24"
42"-72"	D <sub>o</sub> +(D <sub>o</sub> /3)	D <sub>o</sub> +30"
72"+	D <sub>o</sub> +(D <sub>o</sub> /3)	D <sub>o</sub> +48"



### PIPE EMBEDMENT DETAIL



# Missouri State Fair – Comfort Station

## Sedalia, Pettis County, Missouri

### GENERAL NOTES

#### ELEVATION DATUM

SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

#### DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE

#### EARTHWORK

EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT BY CROCKETT GTL DATED NOVEMBER 3, 2020.

### CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

FOUNDATIONS	–	3,000 PSI
CAST-IN-PLACE WALLS	–	3,500 PSI
FLOOR SLAB	–	4,000 PSI
EXTERIOR SLABS, WALLS AND CURBS	–	4,000 PSI
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4' +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8' FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
  - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
  - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

CAST AGAINST AND EXPOSED TO EARTH.....	3 INCHES
EXPOSED TO EARTH OR WEATHER.....	2 INCHES
NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....	1 ½ INCHES
  - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM ¼ OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
  - STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
  - CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

### MASONRY

MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 530.1 SPECIFICATIONS FOR MASONRY STRUCTURES WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- HOLLOW MASONRY BLOCK SHALL CONFORM TO ASTM C90 REGULAR WEIGHT GRADE N1.
- COURSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
- MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270. AVERAGE COMPRESSIVE STRENGTH IS 2,000 PSI.
- MINIMUM 28-DAY COMPRESSIVE STRENGTH OF MASONRY;  $f_m = 2,000$  PSI.
- WIRE REINFORCING SHALL CONFORM TO ASTM A82, STANDARD TRUSS-TYPE DUR-O-WALL REINFORCING (OR APPROVED EQUAL) AND SHALL BE PLACED CONTINUOUSLY IN ALTERNATE HORIZONTAL MORTAR JOINTS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60. THE MINIMUM LAP FOR SPLICES SHALL BE 48 BAR DIAMETERS. PROVIDE DUR-O-WALL REBAR POSITIONERS.
- ALL STEEL LINTELS TO BE A36 STEEL OR A992 GRADE 50. ALL LINTELS TO BE HOT DIPPED GALVANIZED.
- INTERSECTING STRUCTURAL WALLS SHALL BE ANCHORED BY STEEL CONNECTORS SPACED VERTICALLY AT 48" O.C. MAXIMUM. THE CONNECTORS SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM SECTION OF ¼" x 1½". THEY SHALL BE 28" LONG WITH 2" AT EACH END BENT AT 90 DEGREES TO FORM A "U" OR "Z" SHAPE. ALL CELLS ABOVE AND BELOW THE ANCHOR SHALL BE GROUTED, AND THE BENT ENDS OF THE CONNECTORS SHALL BE EMBEDDED IN THE GROUT, 2" MIN.
- EXPANSION JOINTS SHALL BE PROVIDED IN CMU BLOCK WALLS FULL HEIGHT OF WALL AT INTERVALS NOT EXCEEDING 24'-0". NOT CLOSER THAN 2'-0" FROM OPENINGS JOINT REINFORCING SHALL BE SEVERED AT EXPANSION JOINT LOCATIONS, HOWEVER BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT.
- BOND BEAMS OR GROUTED CELLS ARE REQUIRED AT ALL CONNECTIONS TO CMU.

### HEADED MASONRY ANCHORS

- ALL HEADED CONCRETE ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318 APPENDIX D1 AND AWS D1.1.
- HEADED STUDS HAVE BEEN DESIGNED AS TYPE "B" ANCHORS ( $f_u = 65,000$  psi,  $f_y = 51,000$  psi).
- EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE OUTSIDE FACE OF THE EMBEDMENT PLATE TO THE INSIDE FACE OF THE STUD HEAD.
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

### DEFORMED BAR ANCHORS

- ALL DEFORMED BAR ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318 APPENDIX D1 AND AWS D1.1.
- DEFORMED BAR ANCHORS HAVE BEEN DESIGNED AS TYPE "C" ANCHORS ( $f_u = 80,000$  psi,  $f_y = 70,000$  psi, & MANUFACTURED IN CONFORMANCE WITH ASTM A496).
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

### PREFABRICATED WOOD TRUSSES

- FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, AND THE ANSI/NF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
- PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.
- FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS:
  - DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET.
  - MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 250 LBS HUNG ANYWHERE ALONG THE BOTTOM CHORD.
  - OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.
  - DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
  - IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS CARRIED AXIALLY IN THE PLANE OF THE TRUSS, AS SHOWN ON THE PLANS.
- GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM.
- SUBMITTALS SHALL INCLUDE THE FOLLOWING:
  - SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND SEALED BY, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT. THESE DRAWINGS SHALL INDICATE SPECIES, GRADE, AND SIZES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS. SHOW TRUSS LAYOUT AND ALL REQUIRED TEMPORARY AND PERMANENT BRACING AFFECTING THE STRUCTURAL CAPACITY OF THE TRUSSES.

PROVIDE COMPLETE ENGINEERING DESIGN CALCULATIONS THAT INCLUDE DESIGN VALUES, DESIGN ANALYSIS INDICATING LOADING, ASSUMED ALLOWABLE STRESSES, STRESS DIAGRAM, AND CALCULATIONS, AND ANY OTHER INFORMATION NEEDED FOR REVIEW. THE CALCULATIONS SHALL HAVE BEEN SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT AND WHO IS RESPONSIBLE FOR PREPARATION OF THE CALCULATIONS.

### SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- CONCRETE GROUT DESIGN MIX (PERIODIC)
- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED) (PERIODIC)
- STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
- POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- MASONRY AND REINFORCING STEEL (CONTINUOUS ON CELL GROUTING / PERIODIC ON REINFORCING)
- WOOD FRAMING:
  - SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
  - DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
  - FRAMING MEMBERS AND DETAILS (PERIODIC)
  - MATERIAL GRADE (PERIODIC)
  - CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
  - PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

#### DESIGN DATA

2018 INTERNATIONAL BUILDING CODE / ASCE 7-16

BUILDING OCCUPANCY CATEGORY	II
ROOF LOAD DATA	
LIVE LOAD	20
ROOFING SHEATHING & INSULATION	8.0
MECHANICAL ALLOWANCE	7.0
TRUSSES/STRUCTURE	50
TOTAL TO WALLS	40 lbs/sqft

ROOF SNOW LOAD DATA\* (\*UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD, WHERE APPLICABLE)

$P_g =$	20 lbs/sqft
$C_e =$	10
$I_s =$	10
$C_t =$	11

#### WIND DESIGN DATA

$V_{50} =$	115 MPH (BC 1609.3.0)
RISK CATEGORY	II
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT =	+ 0.18
DIRECTIONAL PROCEEDURE (MWFRRS - ASCE 7-10, CH 27; C&C - ASCE 7-10, CH 30, PART 4)	
MAXIMUM COMPONENTS & CLADDING WIND	+40/-40 lbs/sqft

#### EARTHQUAKE DESIGN DATA

RISK CATEGORY	II
$I_E =$	10
$S_S =$	0.137
$S_1 =$	0.084
SITE CLASS	C
$S_{DS} =$	0.119
$S_{D1} =$	0.084
SEISMIC DESIGN CATEGORY	B
BASIC SEISMIC-FORCE-RESISTING SYSTEM =	
INTERMEDIATE REINFORCED MASONRY SHEAR BEARING WALLS	
$R =$	3.50
$\Omega_{M54} =$	2.50
$C_d =$	2.25

DESIGN BASE SHEAR	$V = 0.034W$
EQUIVALENT LATERAL FORCE PROCEEDURE	

NET ALLOWABLE SOIL BEARING 2100 CONTINUOUS/2,500 PAD lbs/sqft

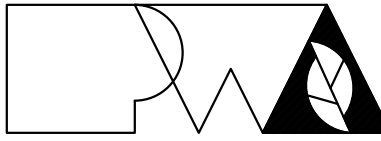
#### INDEX OF SHEETS

COVER / GENERAL STRUCTURAL DATA	S-100
FOUNDATION PLAN & DETAILS	S-200
ROOF FRAMING PLAN & DETAILS	S-300
ROOF FRAMING DETAILS	S-310

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



GREGORY L. LINNEMAN - PE  
MO LICENSE - 2005001013



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### OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

### NEW COMFORT STATION

MISSOURI STATE  
FAIRGROUNDS (MSF)  
2503 W. 16TH ST.  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 3511501139

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 08/10/2022

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: SEH  
CHECKED BY: GLL  
DESIGNED BY: GLL

SHEET TITLE:

### GENERAL STRUCTURAL DATA

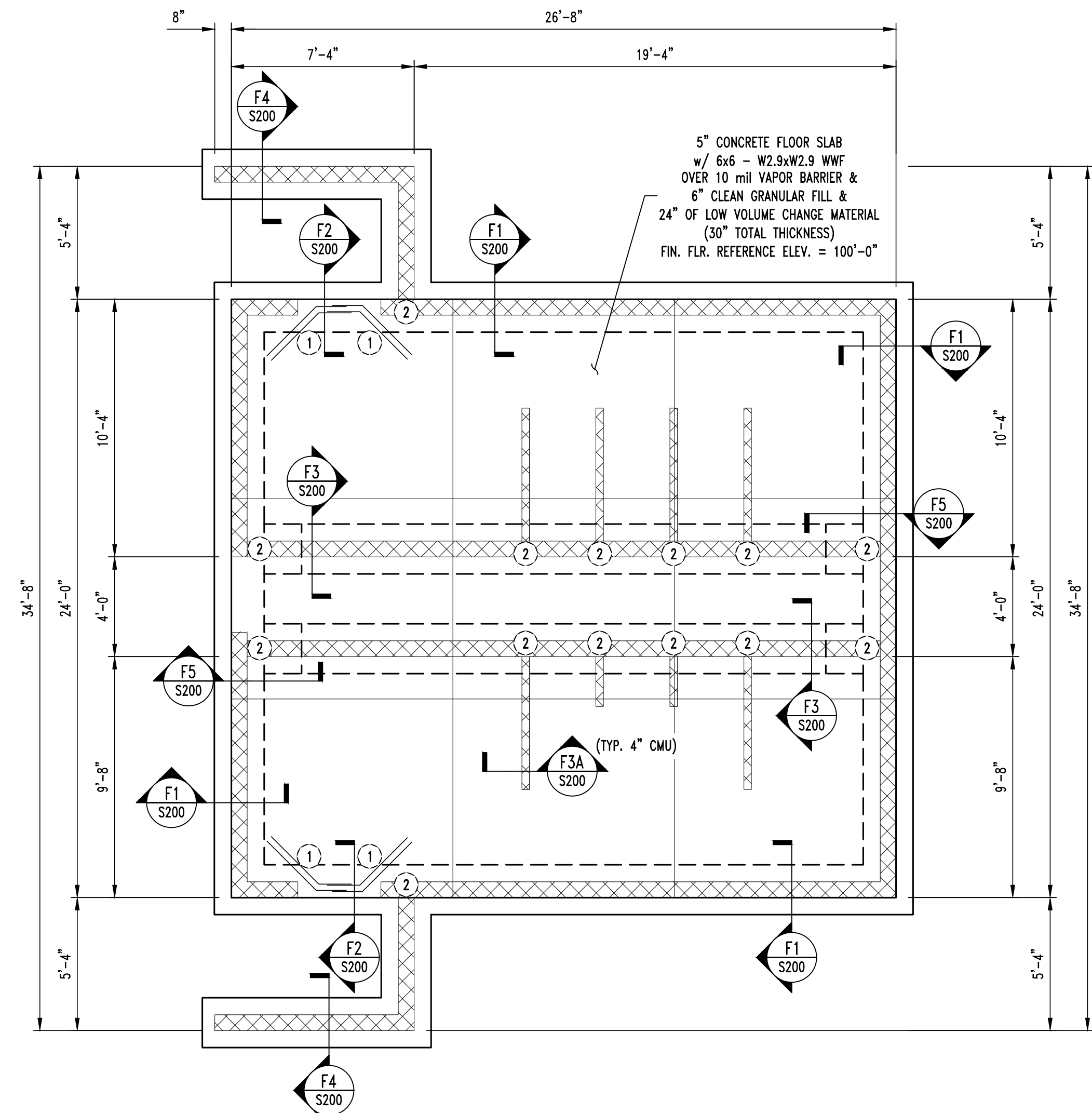
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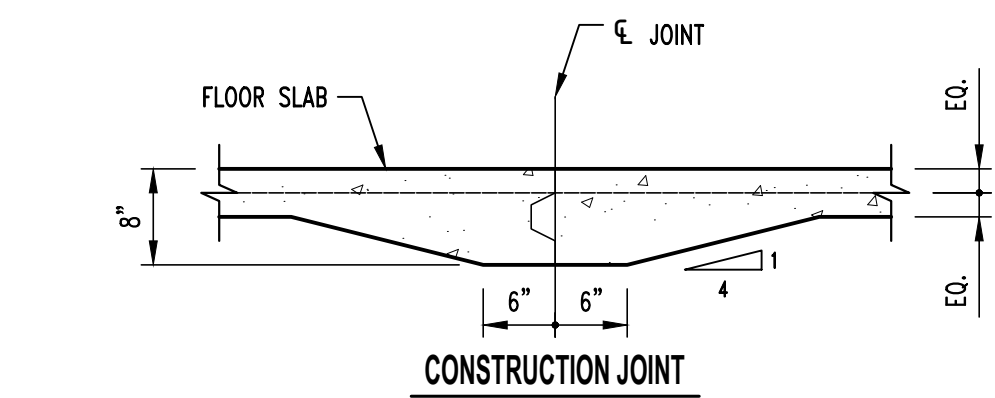
8 OF 20 SHEETS  
08/10/2022



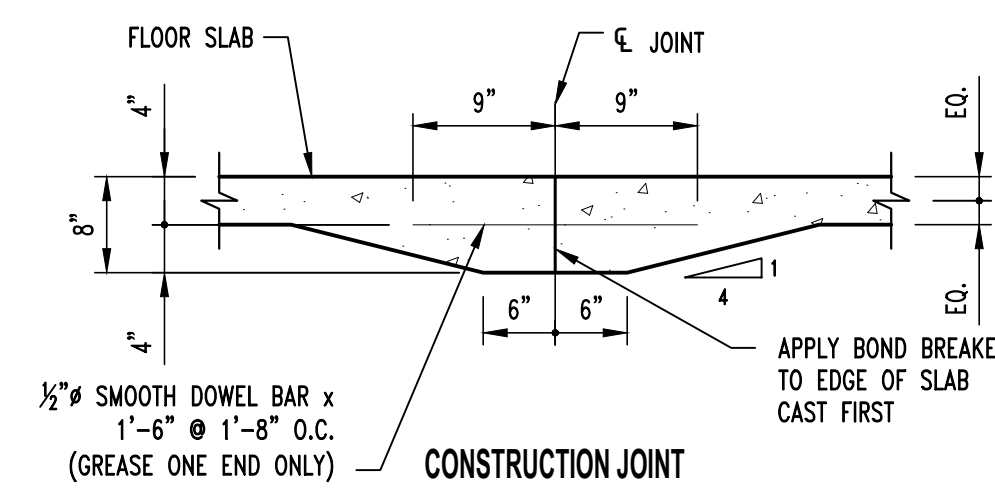
NOTE:  
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WALL OR FRAMING; EDGE OF SLAB; OR CENTERLINE OF  
COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.



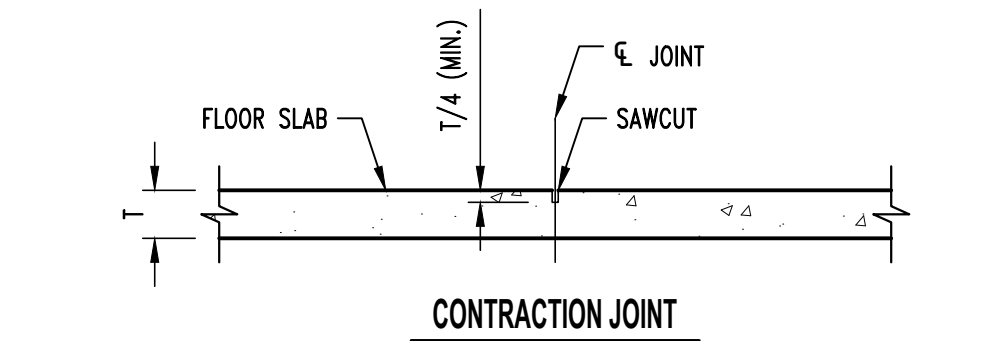
FOUNDATION PLAN  
SCALE:  $\frac{1}{4}" = 1'-0"$



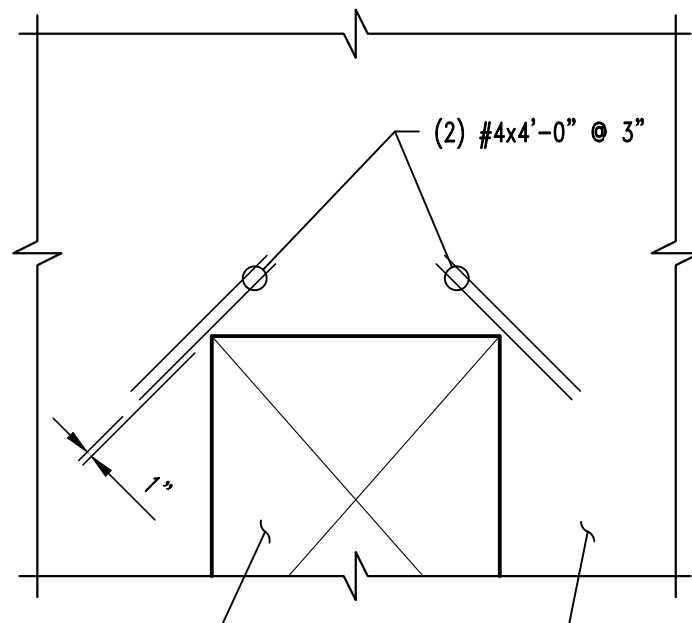
CONSTRUCTION JOINT



CONSTRUCTION JOINT

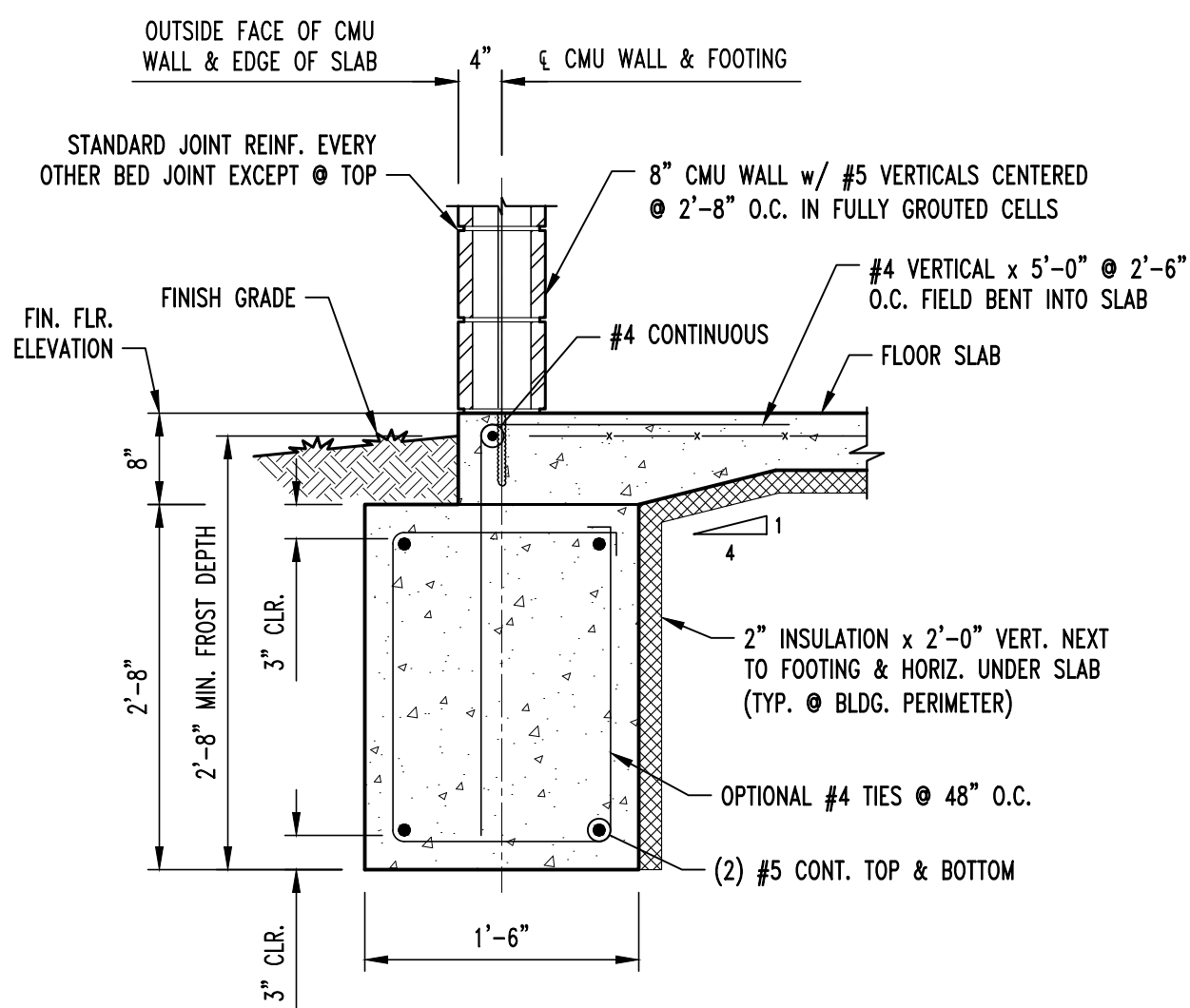


CONTRACTION JOINT

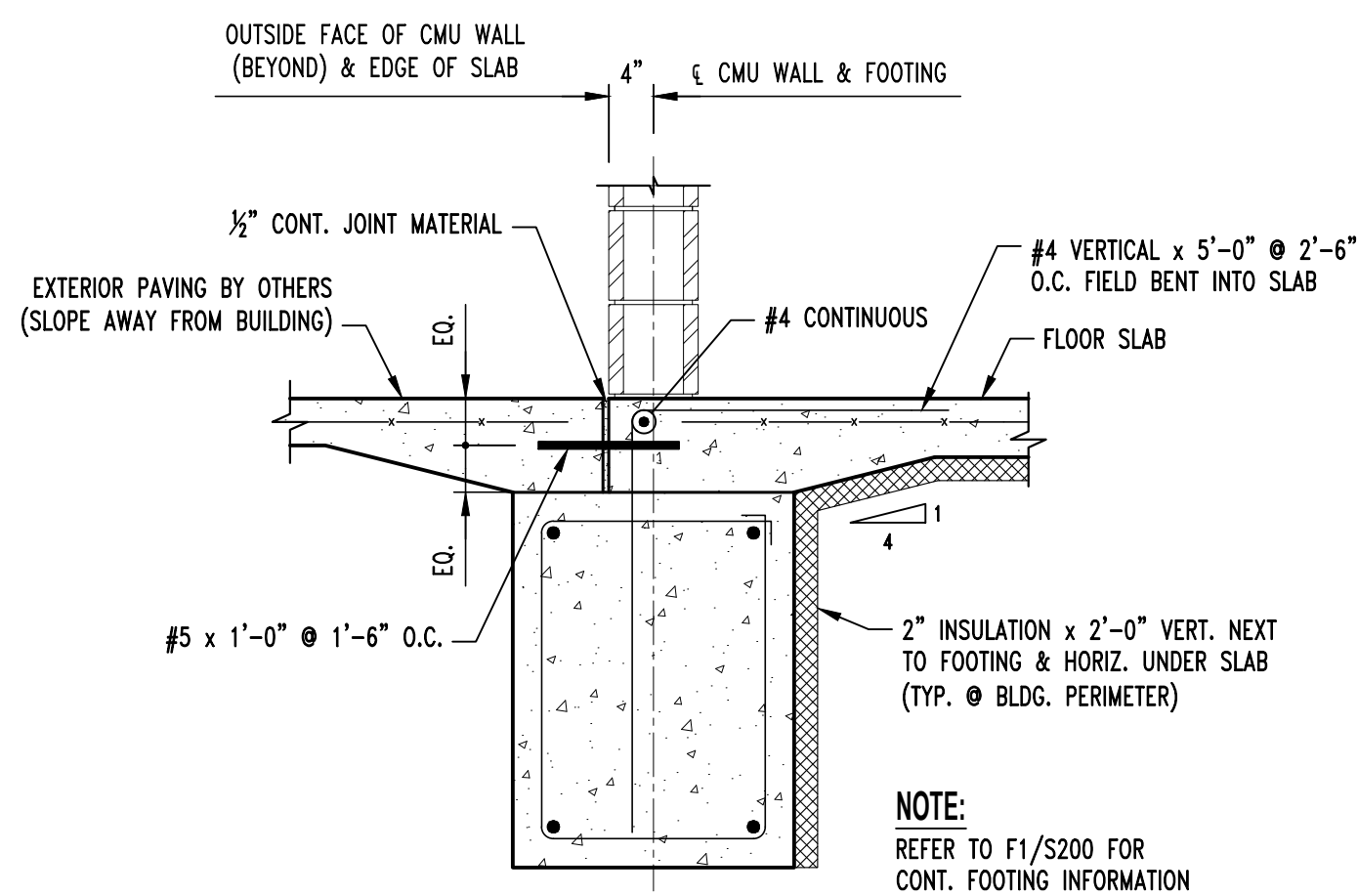


NOTE:  
TYPICAL AT ALL REENTRANT CORNERS FOR  
SLAB-ON-GRADE & STRUCTURAL SLAB.  
REINFORCING TO BE CENTERED IN SLAB THICKNESS.

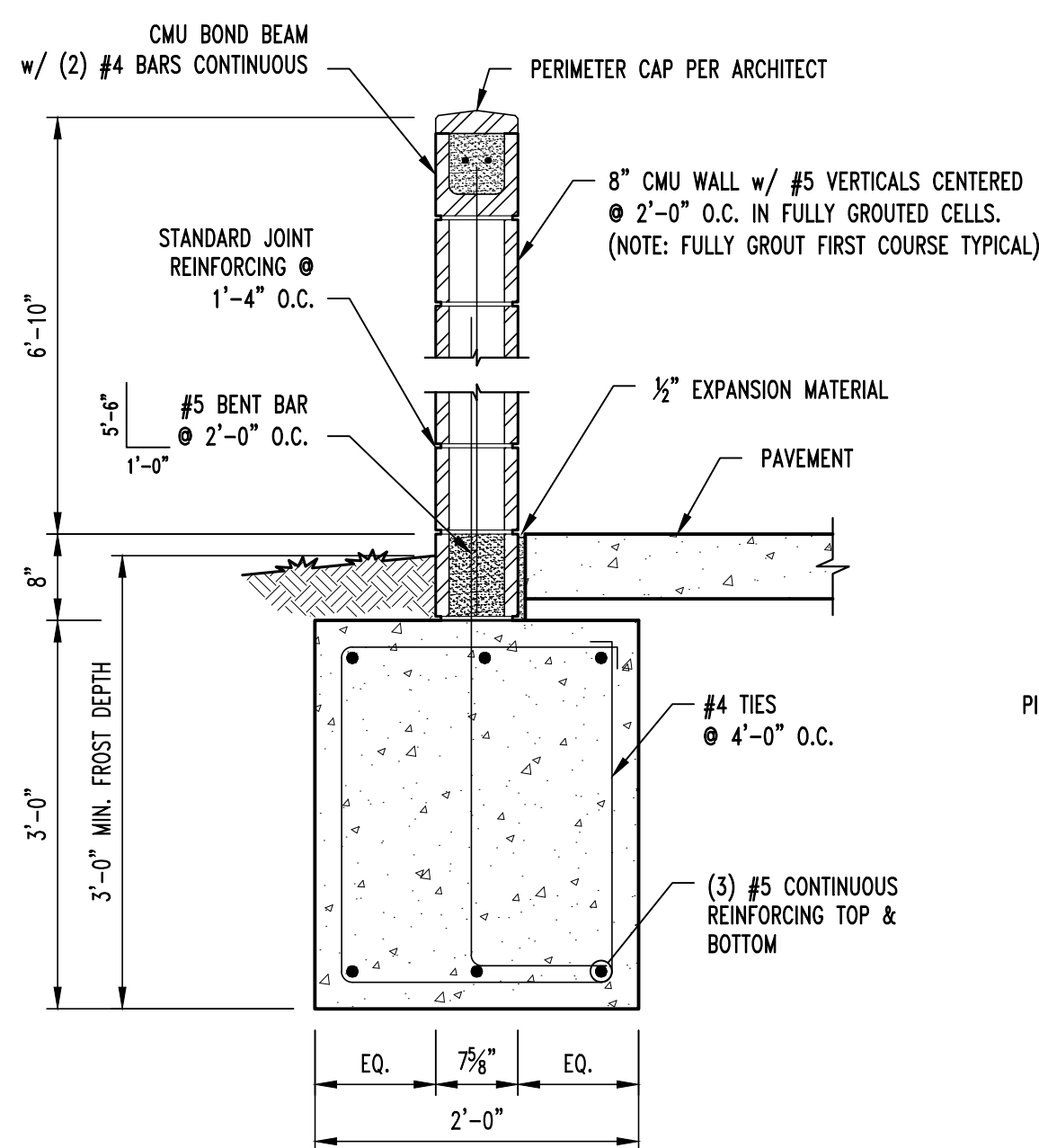
CRACK CONTROL REINFORCING



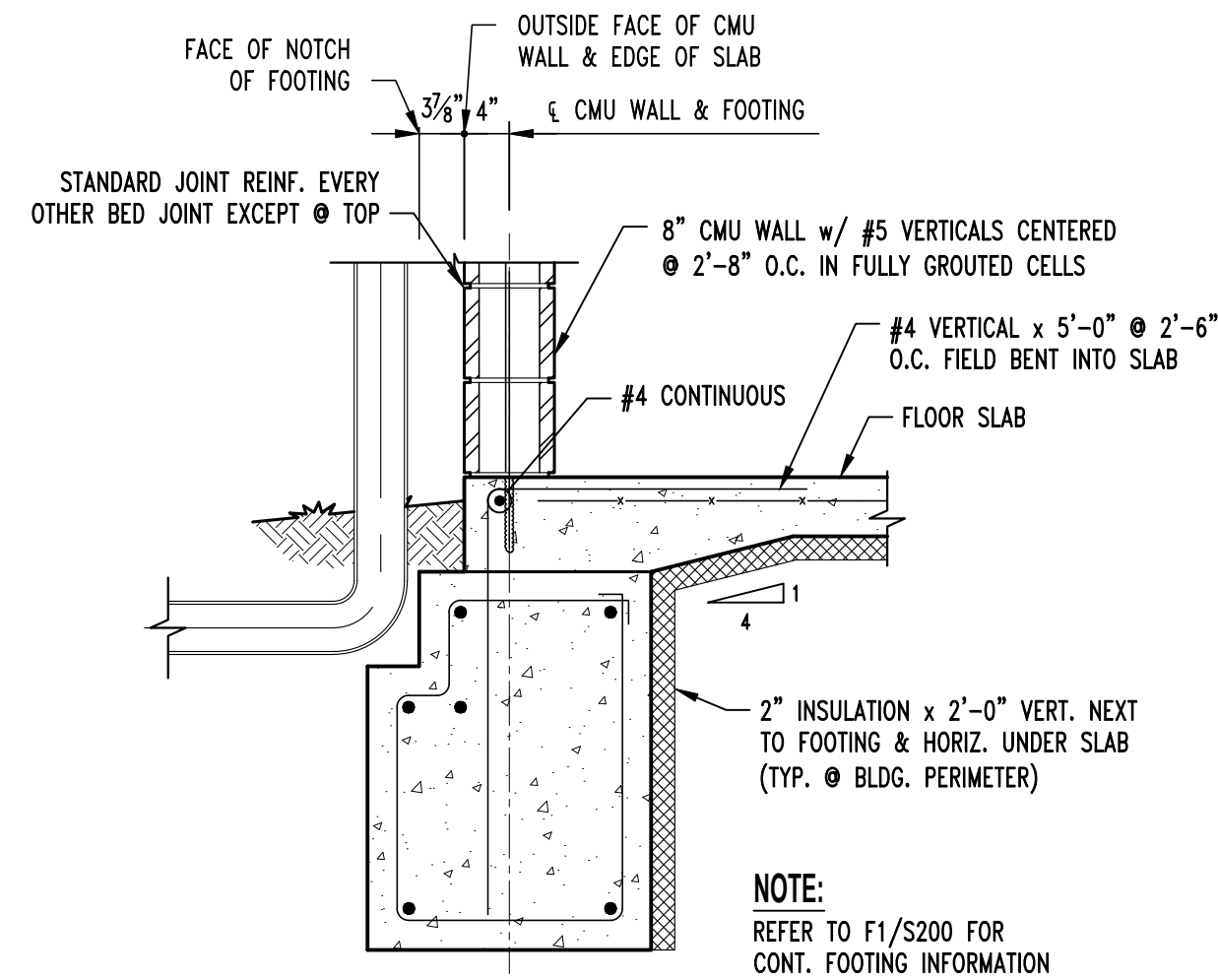
CONTINUOUS FOOTING SECTION  
SCALE:  $\frac{3}{4}" = 1'-0"$



CONTINUOUS FOOTING SECTION @ DOOR  
SCALE:  $\frac{3}{4}" = 1'-0"$

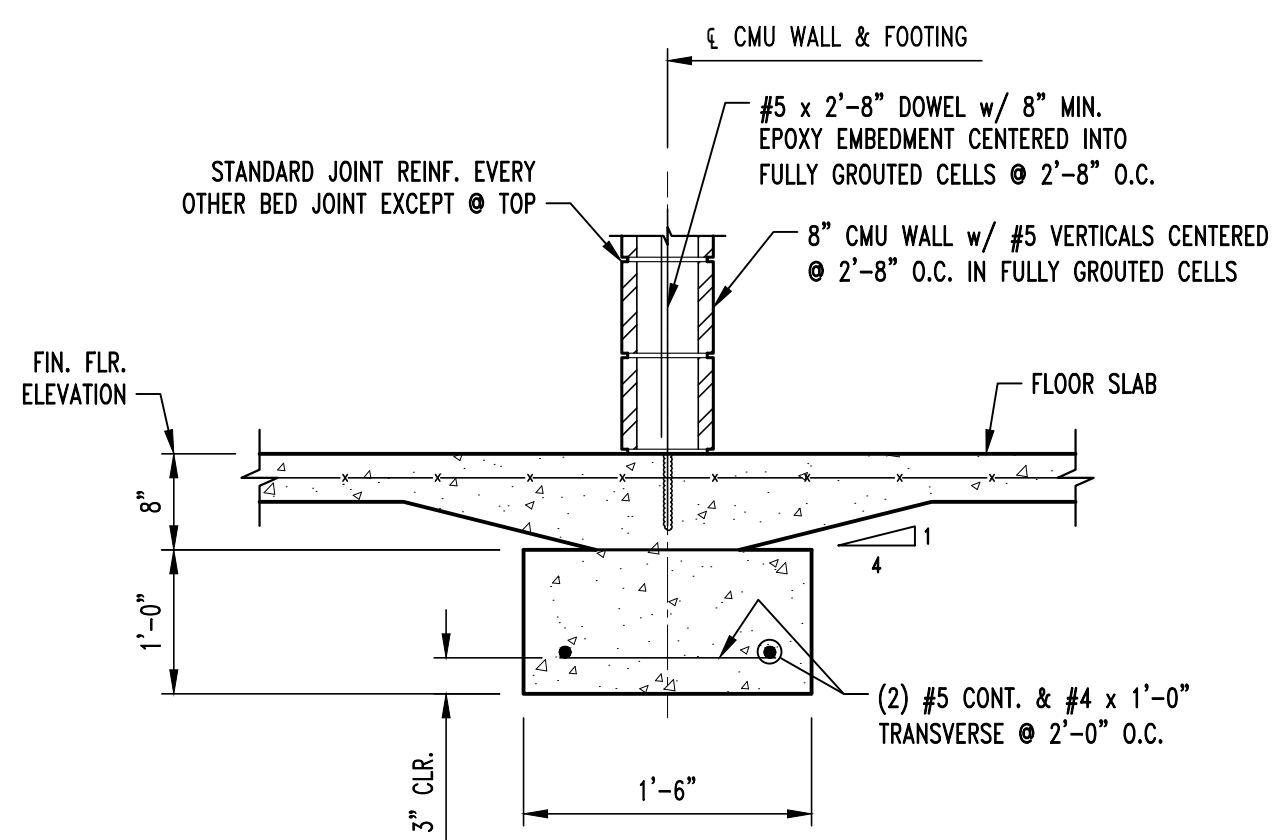


WALL FOOTING SECTION  
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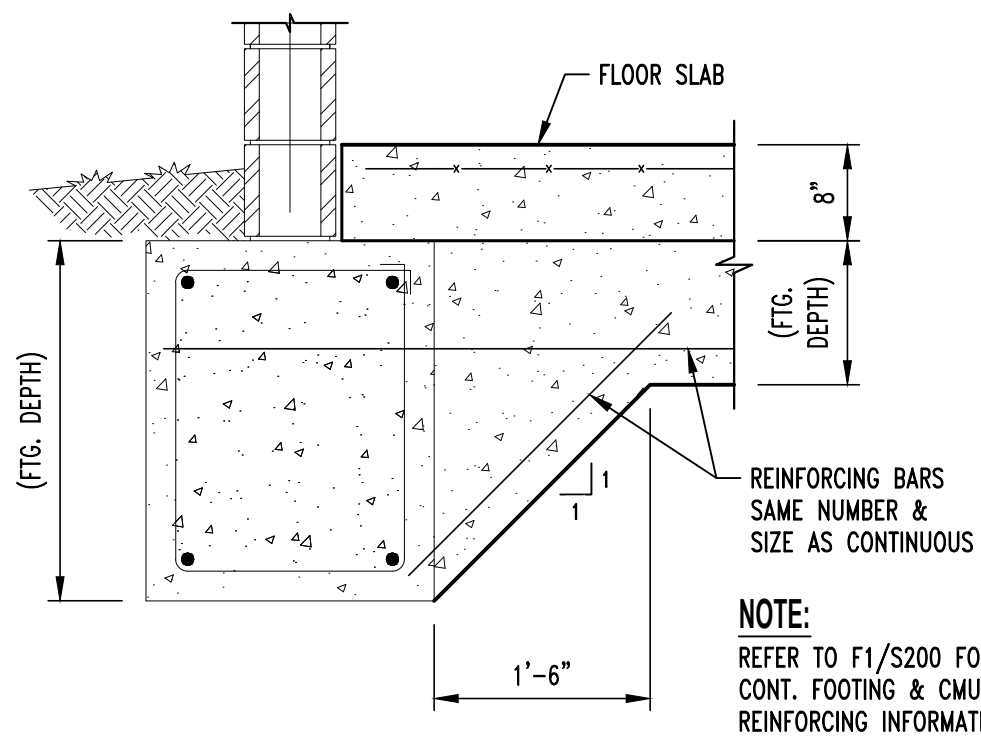


CONTINUOUS FOOTING SECTION @ DOWNSPOUT

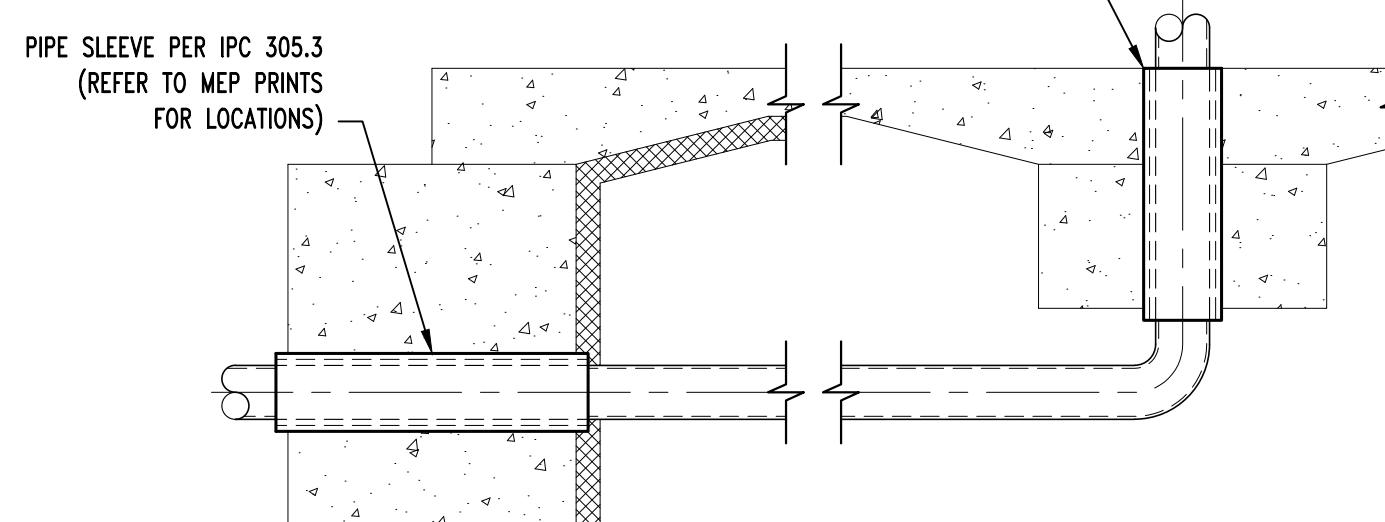
NOTE:  
REFER TO ARCHITECTURAL  
PLANS FOR LOCATION.



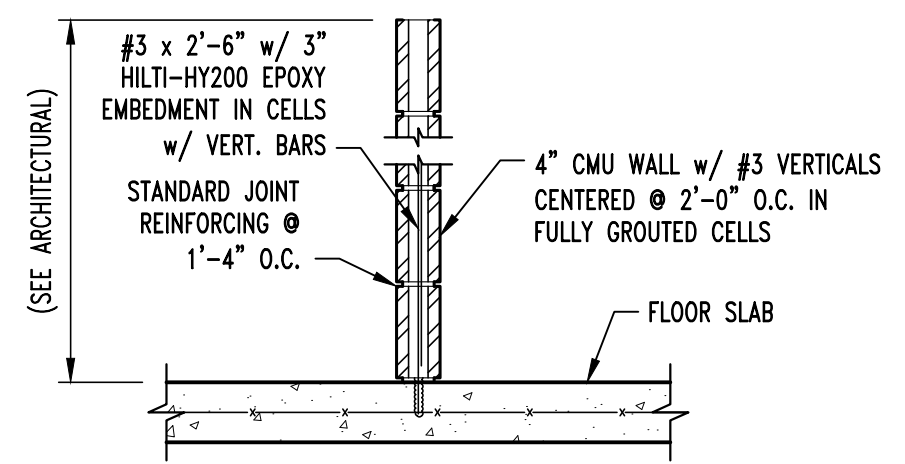
BRG. WALL CONTINUOUS FOOTING SECTION  
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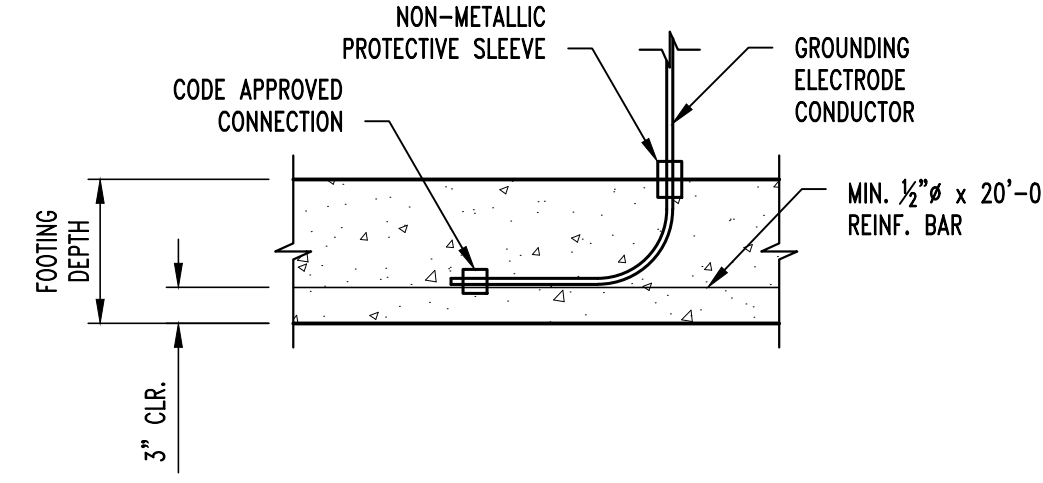
FOOTING STEP DETAIL  
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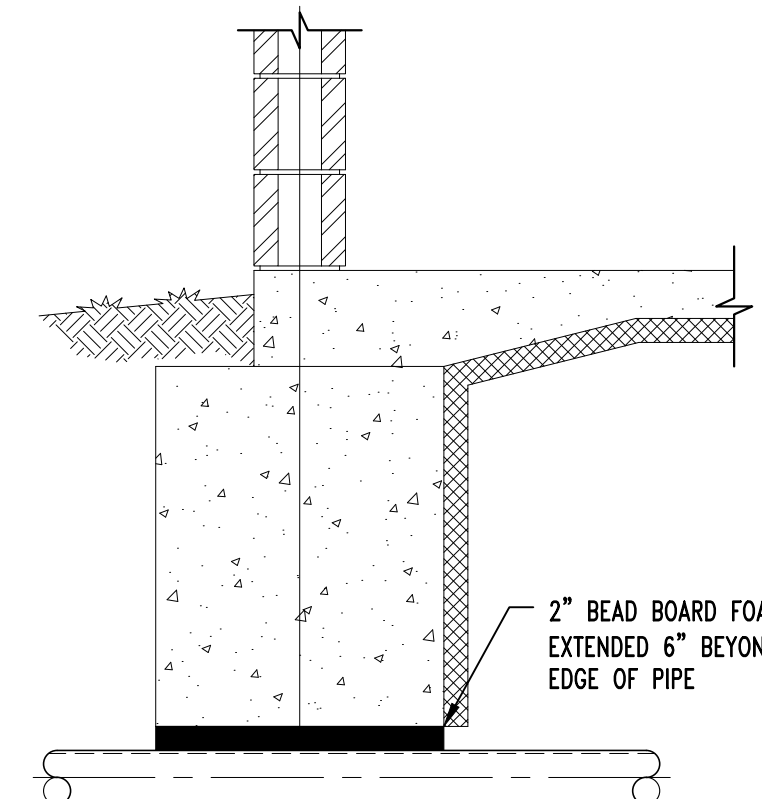
TYP. PLUMBING COORDINATION DETAILS



4" CMU ON SLAB SECTION  
SCALE:  $\frac{3}{4}" = 1'-0"$



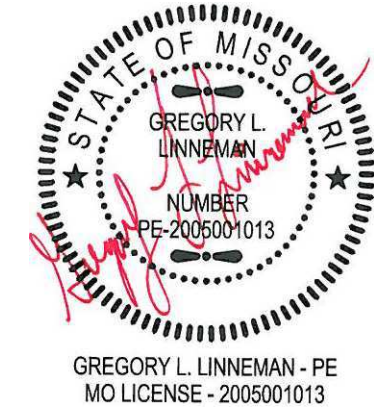
TYP. ELECTRICAL GROUNDING DETAIL @ FOOTING



## FOUNDATION NOTES

- REENTRANT CORNER BARS, REFER TO TYPICAL CRACK CONTROL REINFORCING DETAIL ON S200.
- "Z" BAR INSTALLED @ WALL INTERSECTION. SEE DETAIL SM2/S310.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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DESIGN AND CONSTRUCTION

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PROJECT # F2206-01  
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REVISION:  
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ISSUE DATE: 08/10/2022

CAD DWG FILE:  
DRAWN BY: SEH  
CHECKED BY: GLL  
DESIGNED BY: GLL

SHEET TITLE:

FOUNDATION  
PLAN & DETAILS

SHEET NUMBER:

**S-200**

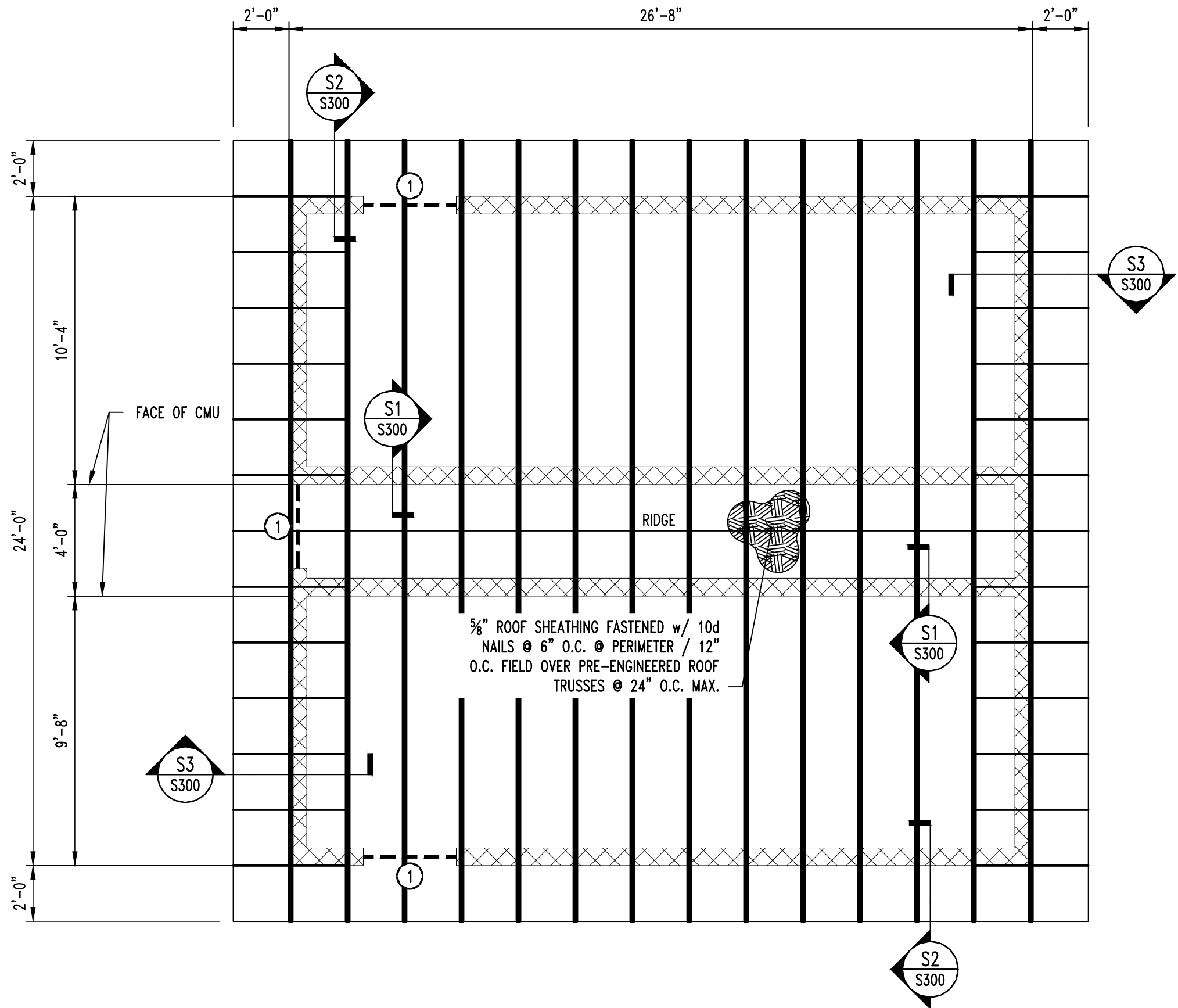
9 OF 20 SHEETS  
08/10/2022



NOTE:  
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COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

FRAMING NOTES

① CMU LINTEL. REFER TO DETAIL SM1 SHEET S310.

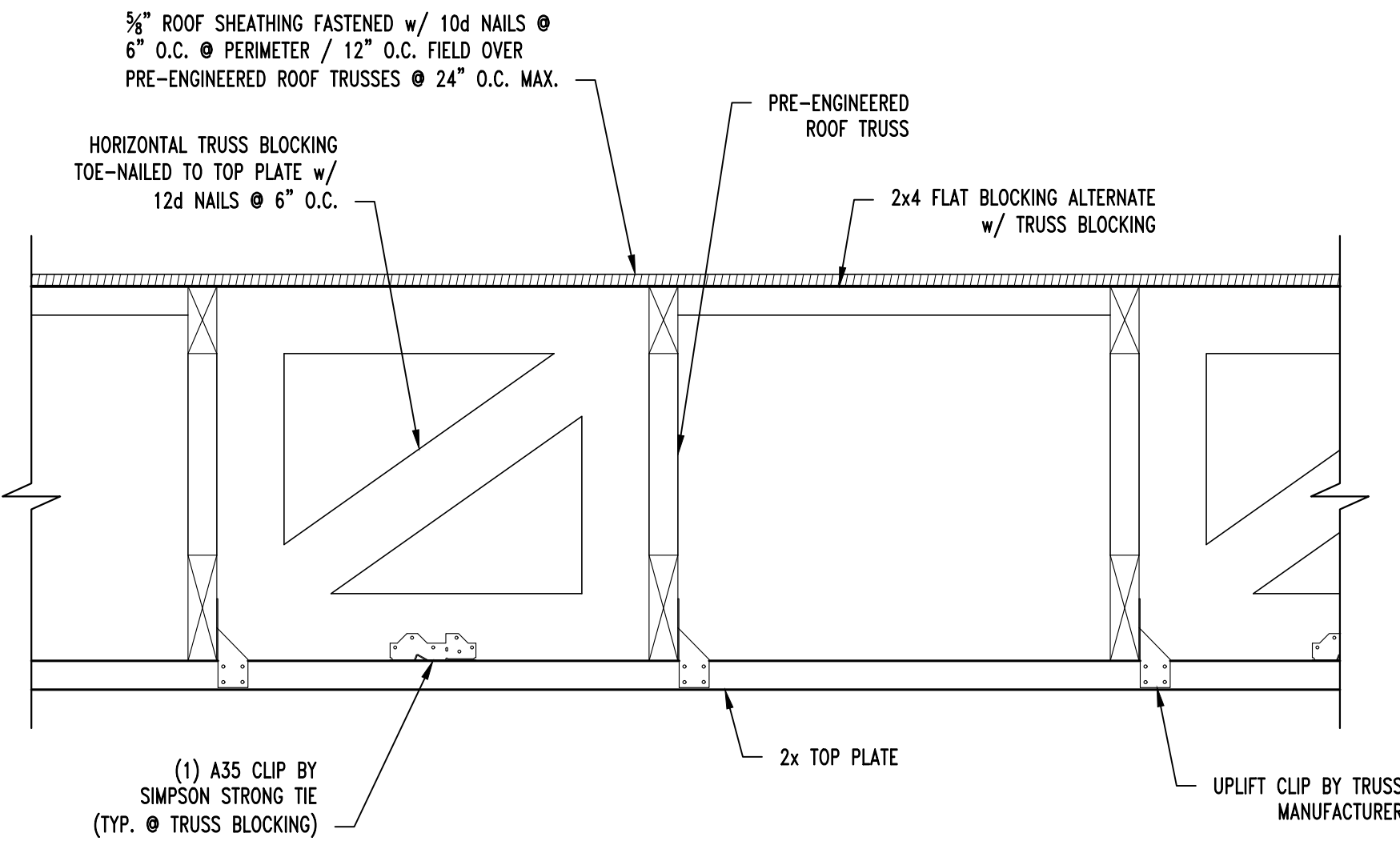


1  
S300

ROOF FRAMING PLAN

SCALE:  $\frac{1}{4}" = 1'-0"$

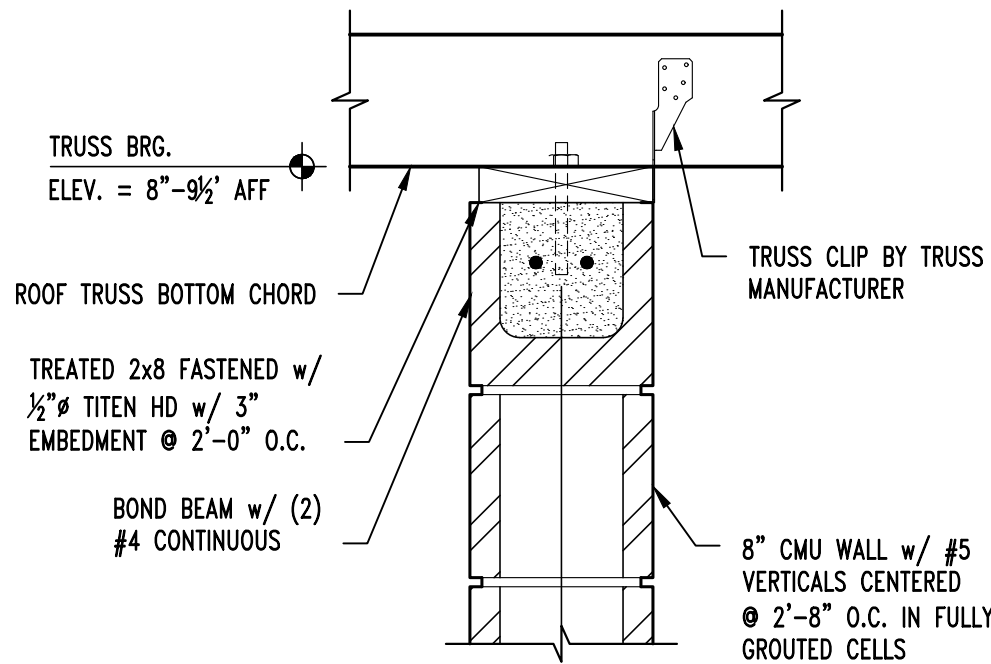
N



A  
S300

TYP. TRUSS BLOCKING SECTION

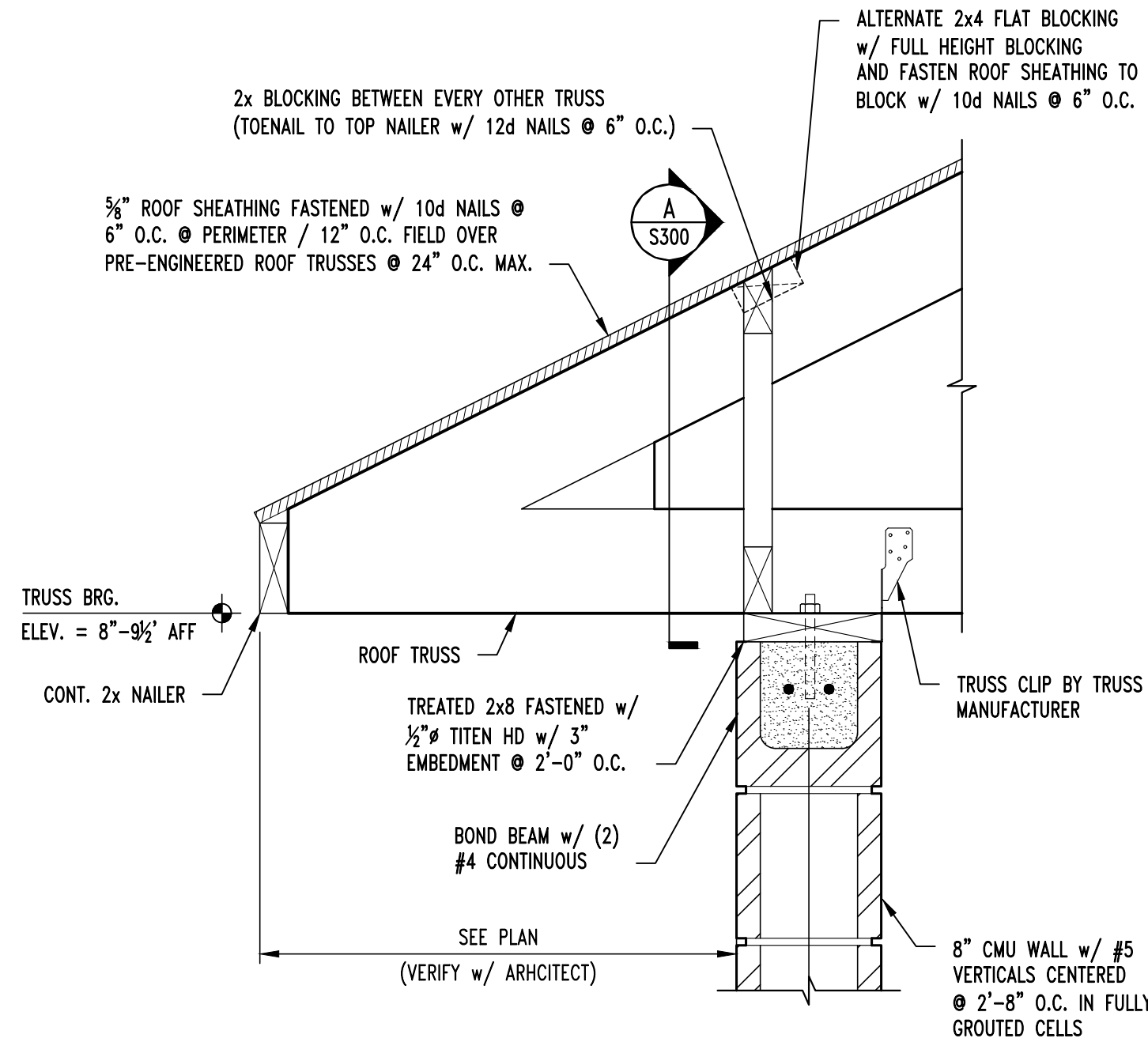
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S1  
S300

ROOF FRAMING SECTION

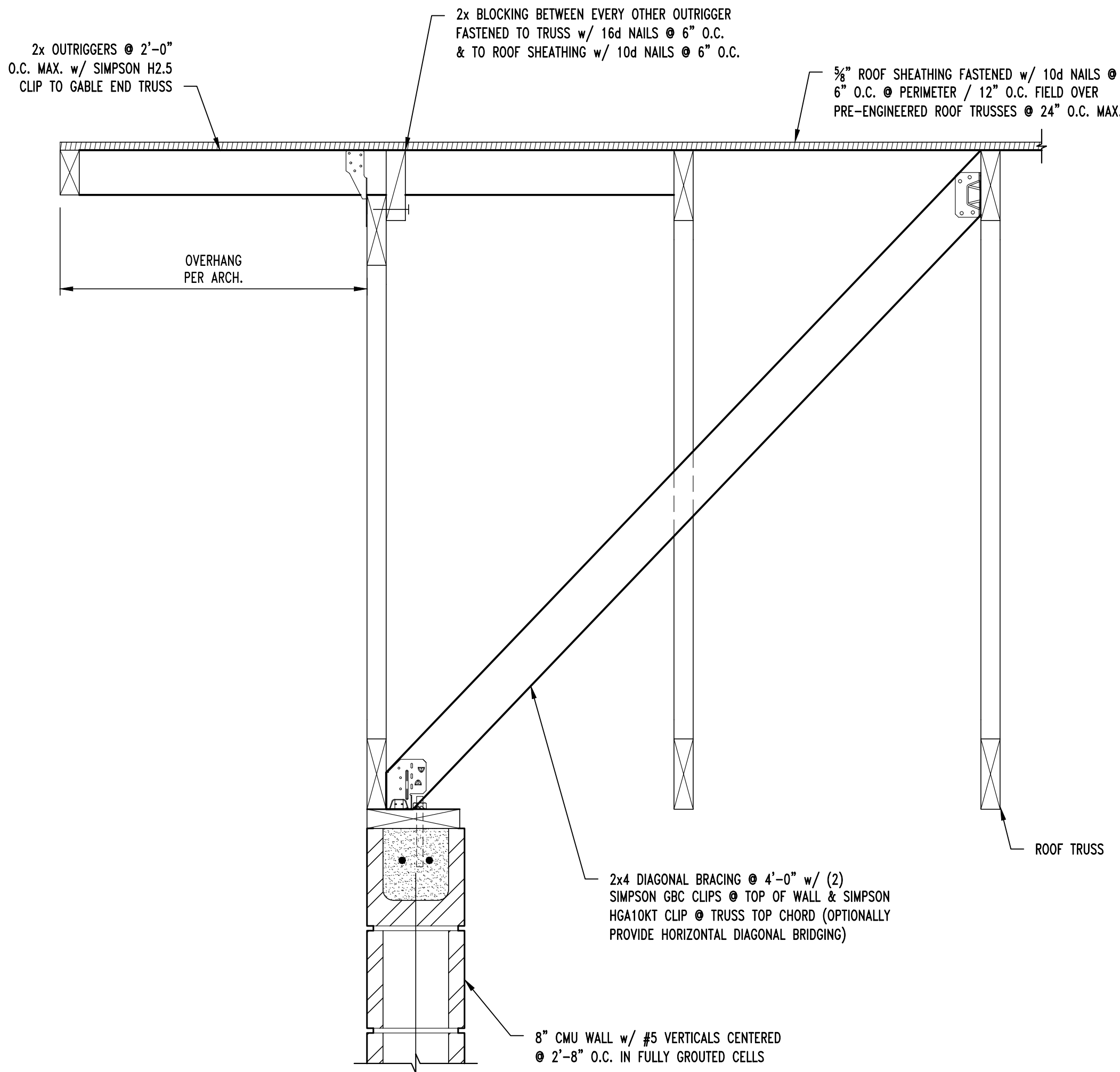
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S2  
S300

ROOF FRAMING SECTION

SCALE:  $\frac{1}{2}" = 1'-0"$



S3  
S300

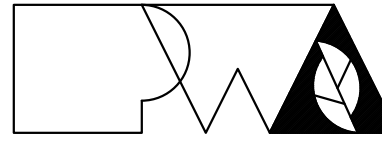
ROOF FRAMING SECTION

SCALE:  $\frac{1}{2}" = 1'-0"$

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NEW COMFORT STATION

MISSOURI STATE  
FAIRGROUNDS (MSF)  
2503 W. 16TH ST.  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 3511501139

REVISION:  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 08/10/2022

CAD DWG FILE:  
DRAWN BY: SEH  
CHECKED BY: GLL  
DESIGNED BY: GLL

SHEET TITLE:

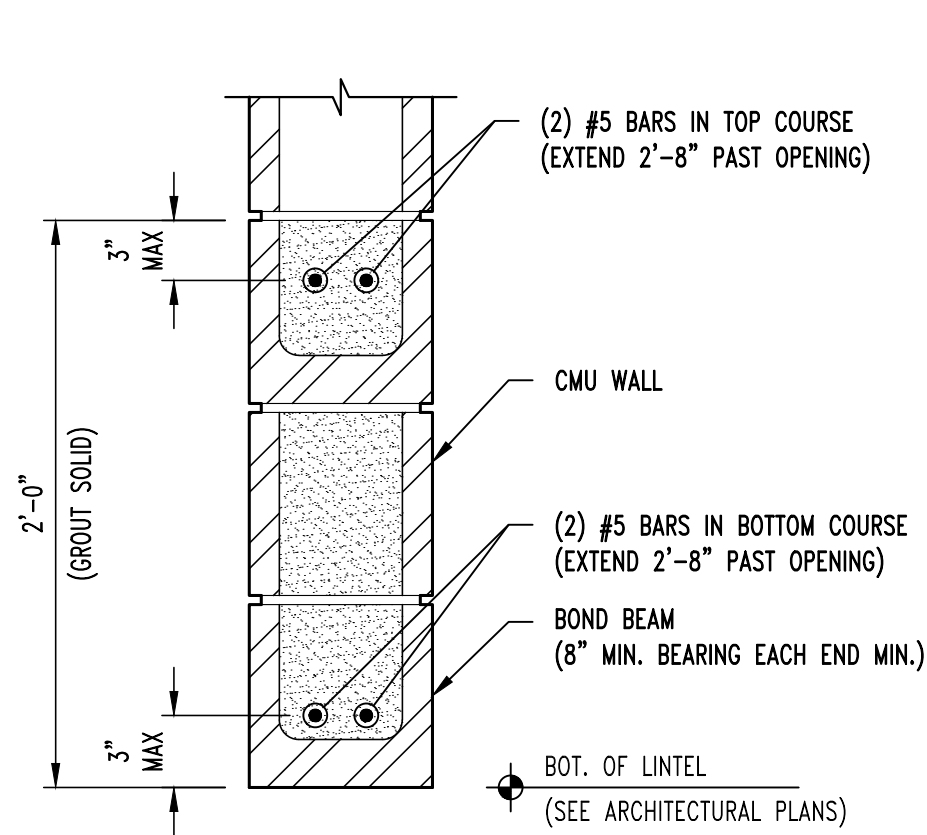
ROOF FRAMING  
PLAN & DETAILS

SHEET NUMBER:

S-300

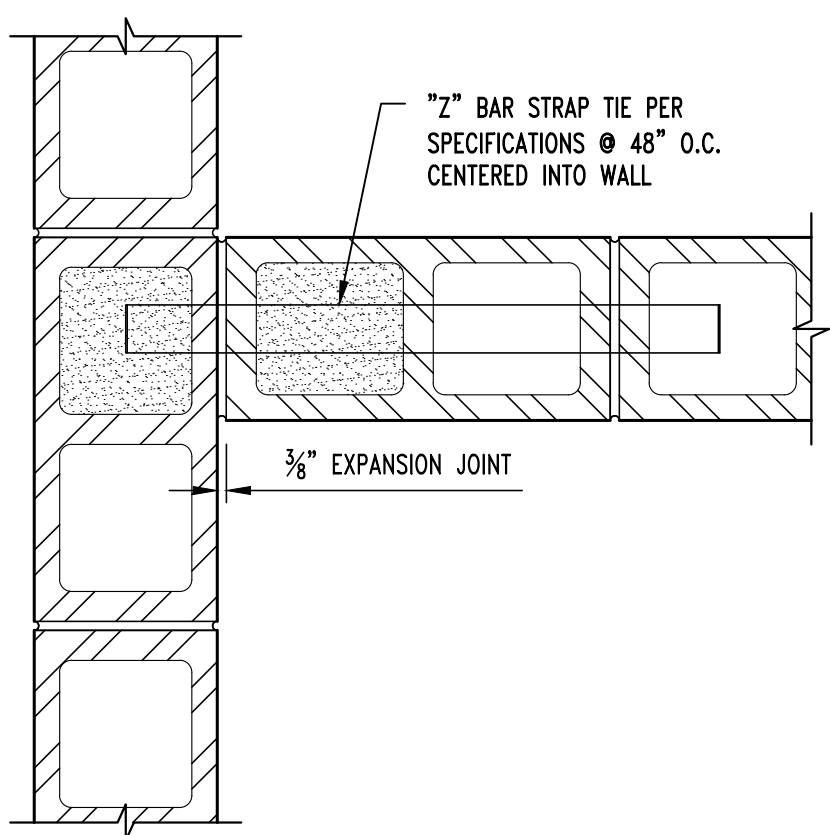
10 OF 20 SHEETS  
08/10/2022



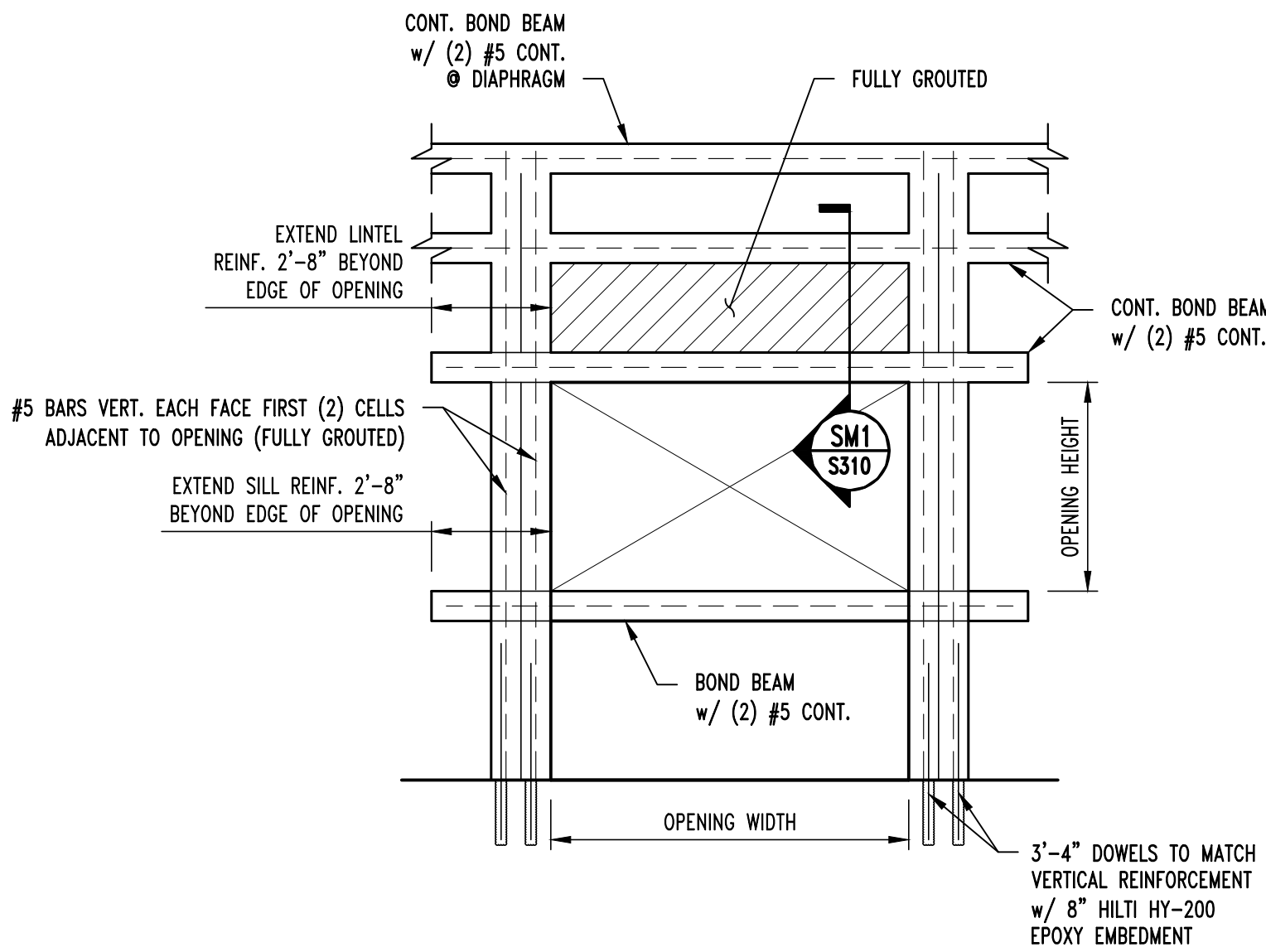


NOTE:  
REFER TO FRAMING PLANS FOR CMU  
LINTEL AT CANOPY LOCATIONS.

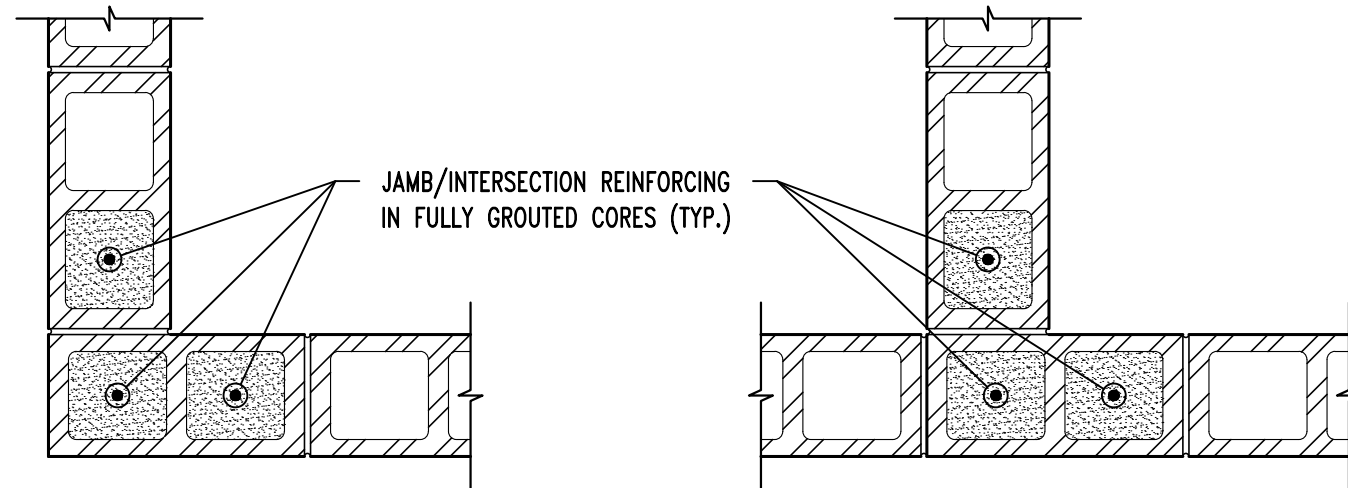
**SM1**  
**S300**  
**TYPICAL CMU LINTEL DETAIL**  
SCALE: 1½" = 1'-0"



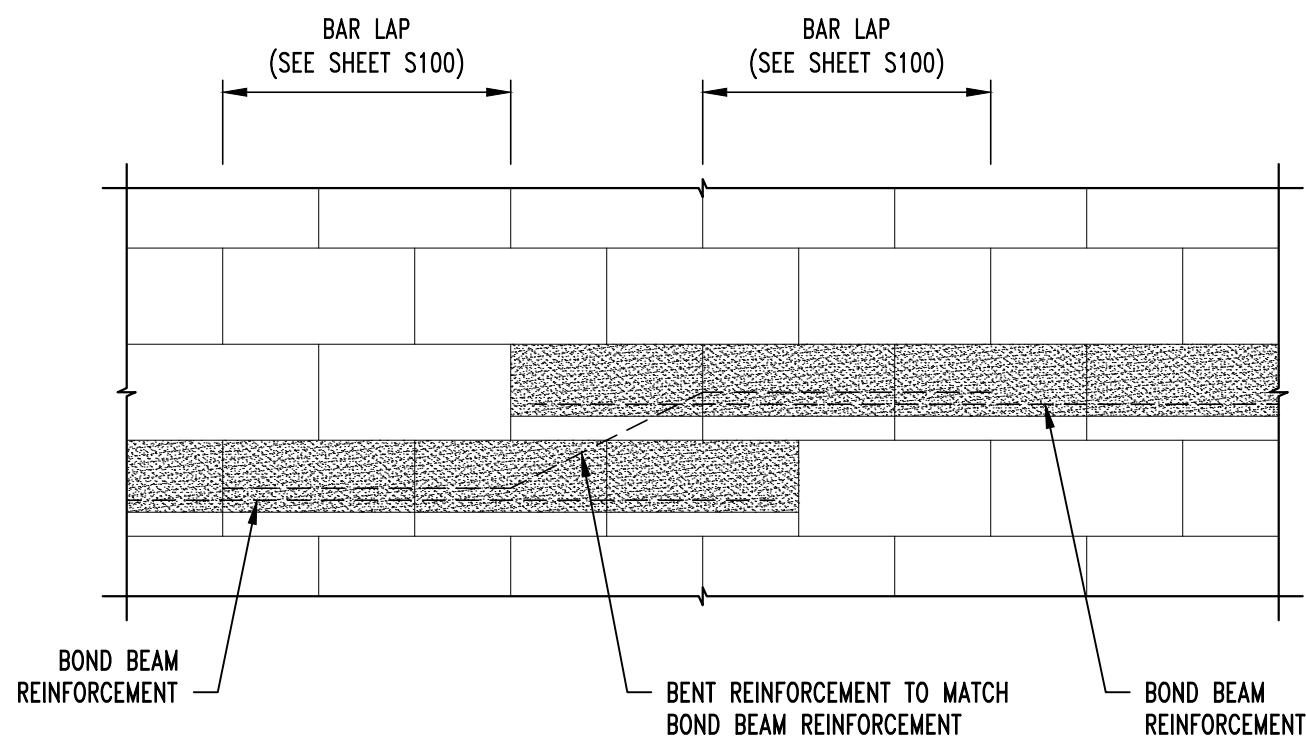
**SM2**  
**S200**  
**WALL INTERSECTION PLAN VIEW**  
SCALE: 1½" = 1'-0"



**TYPICAL MASONRY OPENING REINFORCEMENT**

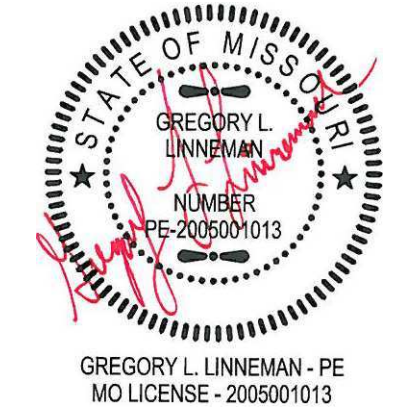


**TYPICAL CMU WALL VERT REINFORCING**



**TYPICAL STEP IN BOND BEAM**

STATE OF MISSOURI  
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ISSUE DATE: 08/10/2022

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DRAWN BY: SEH  
CHECKED BY: GLL  
DESIGNED BY: GLL

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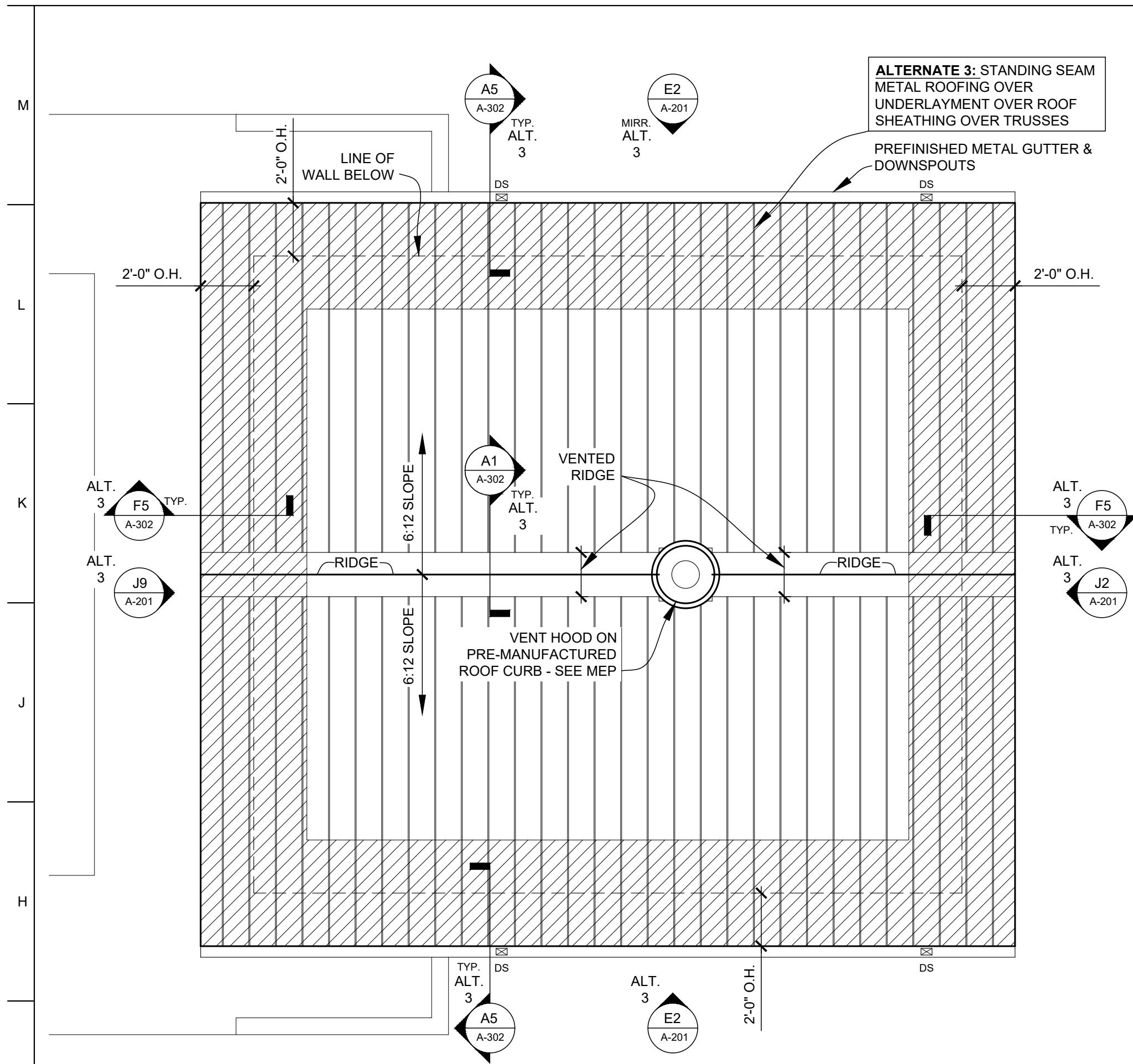
**TYPICAL  
MASONRY DETAILS**

SHEET NUMBER:

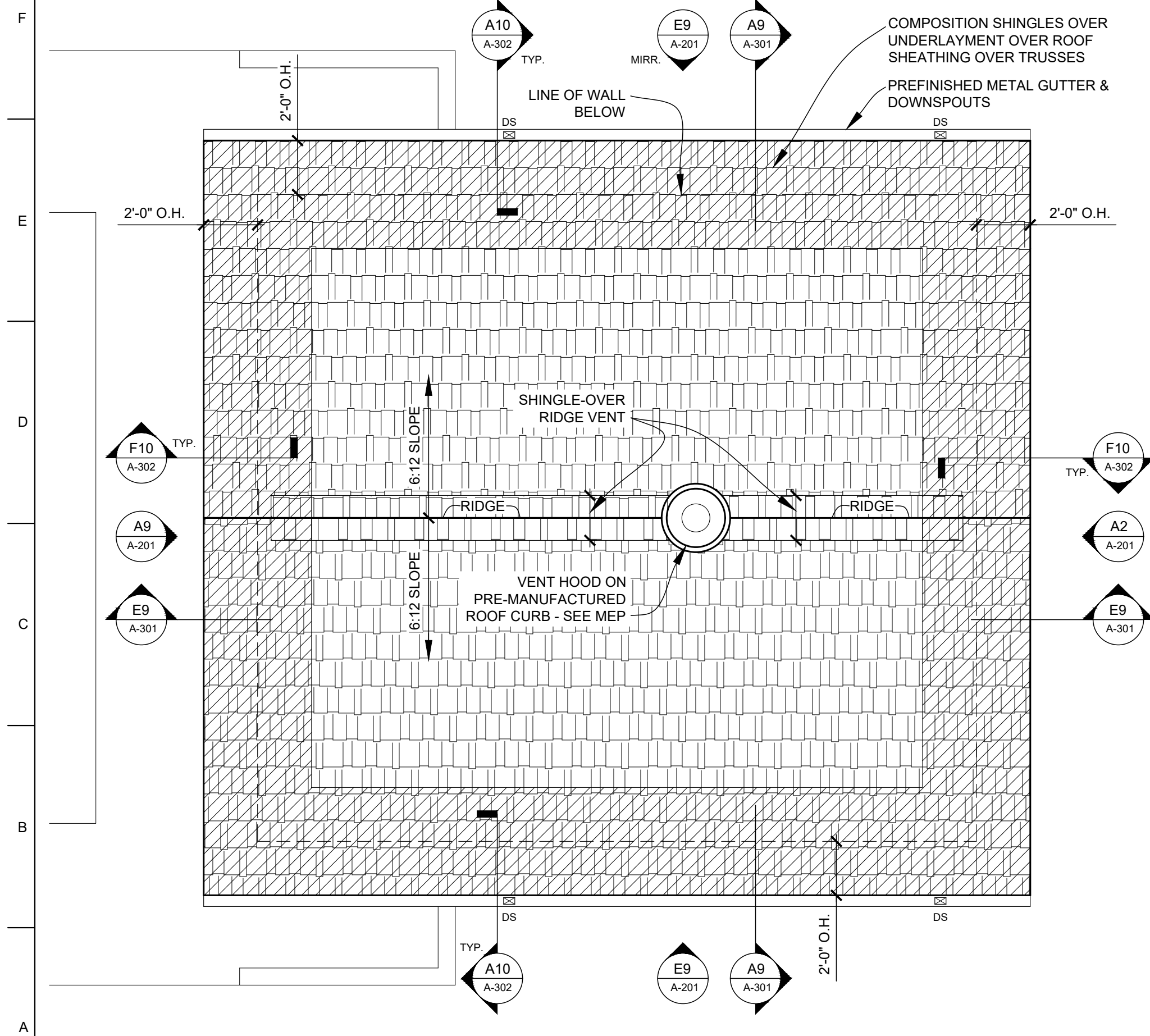
**S-310**

11 OF 20 SHEETS  
08/10/2022





**ALTERNATE 3: ROOF PLAN**  
SCALE: 1/4" = 1'-0"

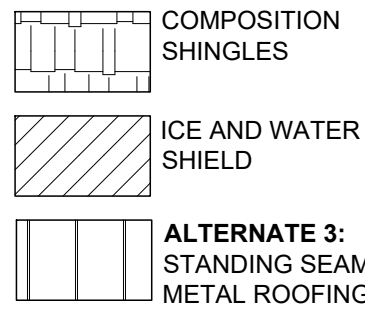


**ROOF PLAN**  
SCALE: 1/4" = 1'-0"

**GENERAL ROOFING NOTES**

- GUTTERS:** 3"x5" PRE-FINISHED K-STYLE METAL GUTTERS, TYP.
- DOWNSPOUTS:** 3"x4" PRE-FINISHED, RECTANGULAR METAL DOWNSPOUTS, TYP.
- ICE AND WATER SHIELD, TYP.:**
- PERIMETER WALL: EXTEND FROM EAVE TO 2'-0" MIN. BEYOND BEARING WALLS
- COORDINATE ROOF PENETRATIONS W/ M/E/P. PROVIDE APPROPRIATE BOOT AND COLLAR FLASHINGS FOR PIPE AND FLUE PENETRATIONS. FLASH SELF-FLASHING ITEMS PER MANUFACTURER'S SUGGESTIONS. SEAL AROUND ALL PENETRATIONS W/ SEALANT.
- ANY ROOFING DETAILS NOT SHOWN SHALL BE DONE IN ACCORDANCE W/ ROOFING FABRICATOR OR INSTALLER APPROVED DETAILS.
  - COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL, PLUMBING & ELECTRICAL WORK. PROVIDE ALL BLOCKINGS, FLASHINGS, CURBS & OTHER RELATED ITEMS AS REQUIRED FOR PROPER INSTALLATION OF MECHANICAL, PLUMBING & ELECTRICAL ITEMS. COMPLY WITH REQUIREMENTS OF NRCA &/OR SMACNA. NOTIFY ARCHITECT OF FABRICATOR OR INSTALLER REQUIREMENTS THAT DIFFER FROM THE REFERENCED STANDARDS.
  - INSTALL ALL ROOFING AND FLASHINGS IN ACCORDANCE WITH REQUIREMENTS OF ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - INSTALL SEALANT TAPE BETWEEN ALL NON-SOLDERED CONNECTIONS OF FLASHINGS, GUTTERS, DOWNSPOUTS AND OTHER AREAS TO MAKE WATER-TIGHT ROOF & FLASHINGS.
  - THE INTENT OF THE ROOF PLANS & DETAILS IS TO ACHIEVE A COMPLETE & PROPER WATER-TIGHT INSTALLATION, REGARDLESS IF A DETAIL IS OR IS NOT SHOWN.

**ROOF PLAN MATERIAL LEGEND**



DS = DOWNSPOUT

**A-101 SCOPE-OF-WORK NOTES**

- 16X8 FOUNDATION VENT W/ DAMPER; SET SILL @ 8" AFF
- 3X4 METAL DOWNSPOUT TO PRECAST CONCRETE SPLASHBLOCK
- ACCESSIBLE RESTROOM SIGN - SEE H13/A-101

**ACCESSIBLE CLEAR FLOOR SPACE REQUIREMENTS**

NOTE	ITEM
1	5'-0" DIAMETER CLEAR FLOOR TURNING SPACE
2	30" X 48" CLEAR FLOOR SPACE CENTERED WITH SINK/LAVATORY FOR PARALLEL APPROACH
3	56" X 60" MIN. CLEAR FLOOR SPACE AROUND WATER CLOSET
4	30" X 48" CLEAR FLOOR SPACE CENTERED ON URINAL

**ALTERNATE 1 - CONTRACTOR-INSTALLED PLUMBING FIXTURES AND TOILET ACCESSORIES**

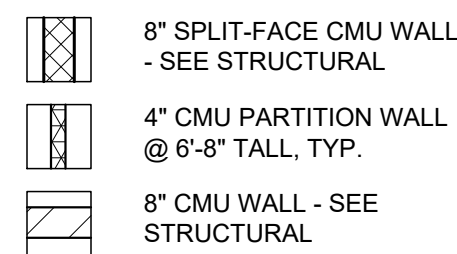
**RESTROOM ACCESSORY SCHEDULE**

NOTE	ITEM	PROVIDED BY:	INSTALLED BY:	MODEL	REMARKS
1	(24"x36") 1/4" TEMPERED GLASS MIRROR	PBC	IBC	BOBRICK B-2908 2436	
2	TOILET PAPER DISPENSER	PBO	IBC	CASCADES PRO D812	
3	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 18	
4	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 36	
5	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 42	
6	PAPER TOWEL DISPENSER	PBO	IBC	CASCADES PRO C340	
7	SOAP DISPENSER	PBO	IBC	SPARTAN LITE N' FOAMY	
8	SANITARY NAPKIN DISPOSAL	PBC	IBC	BOBRICK B-254	

PROVIDE WALL BLOCKING / REINFORCING AS REQUIRED FOR ACCESSORY INSTALLATION AND MOUNTING.

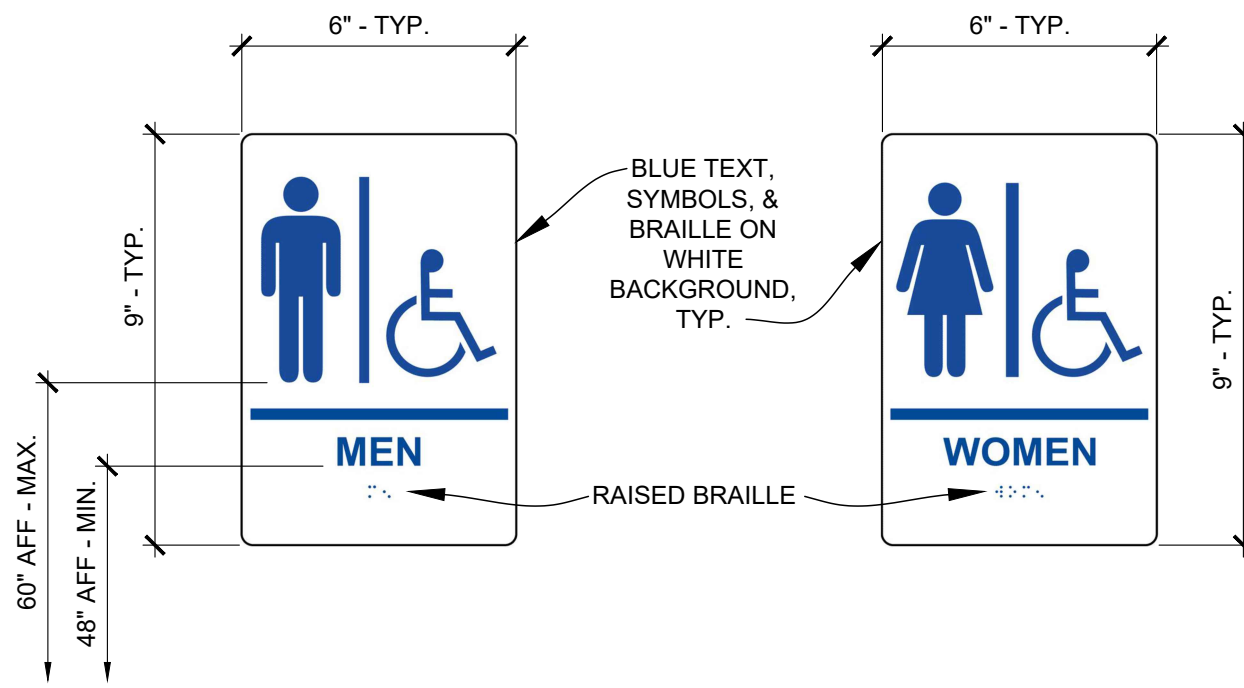
- PBO = PROVIDED BY OWNER
- PBC = PROVIDED BY CONTRACTOR (ALTERNATE 1)
- IBC = INSTALLED BY CONTRACTOR (ALTERNATE 1)

**FLOOR PLAN PARTITION TYPE KEY**

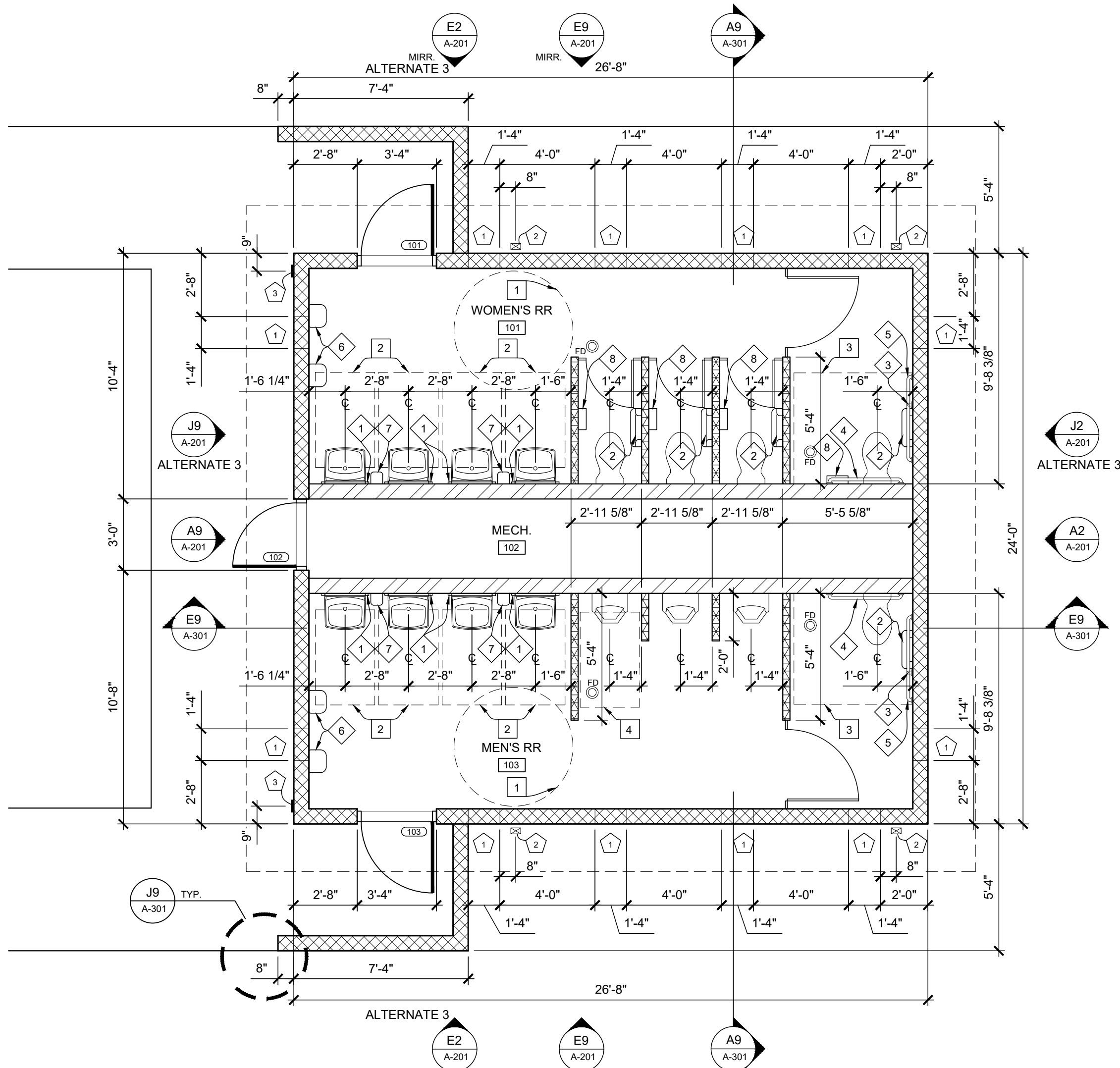


**GENERAL FLOOR PLAN NOTES**

- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- VERIFY ALL ROUGH OPENINGS FOR DOORS, LOUVERS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
- LOCATE DOOR OPENINGS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 6" FROM FINISH WALL TO FINISH JAMB.
- COORDINATE ALL FLOOR DRAINS AND OTHER REFERENCED MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS W/ M.E.P.
- COORDINATE ALL REQUIRED UTILITIES WITH EQUIPMENT MANUFACTURER.
- ALL DIMENSIONS ARE TO FACE OF STUD - OR MASONRY - UNLESS OTHERWISE NOTED.
- DO NOT SCALE DRAWINGS - WHERE DIMENSIONAL DISCREPANCIES ARE ENCOUNTERED NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- COORDINATE HEIGHTS OF OUTLETS & SWITCHING WITH ALL ARCHITECTURAL ITEMS. SEE M/E DRAWINGS FOR LOCATIONS.

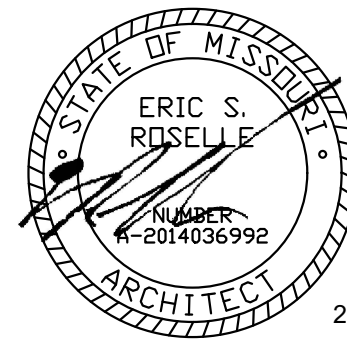


**H13 ACCESSIBLE RESTROOM SIGNS**  
SCALE: N.T.S.



**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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SITE # 1501  
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DATE:  
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ISSUE DATE: 08/10/2022

CAD DWG FILE: A-101  
DRAWN BY: ER  
CHECKED BY: ER  
DESIGNED BY: ER

SHEET TITLE:  
**FLOOR PLAN,  
ROOF PLAN,  
& DETAILS**

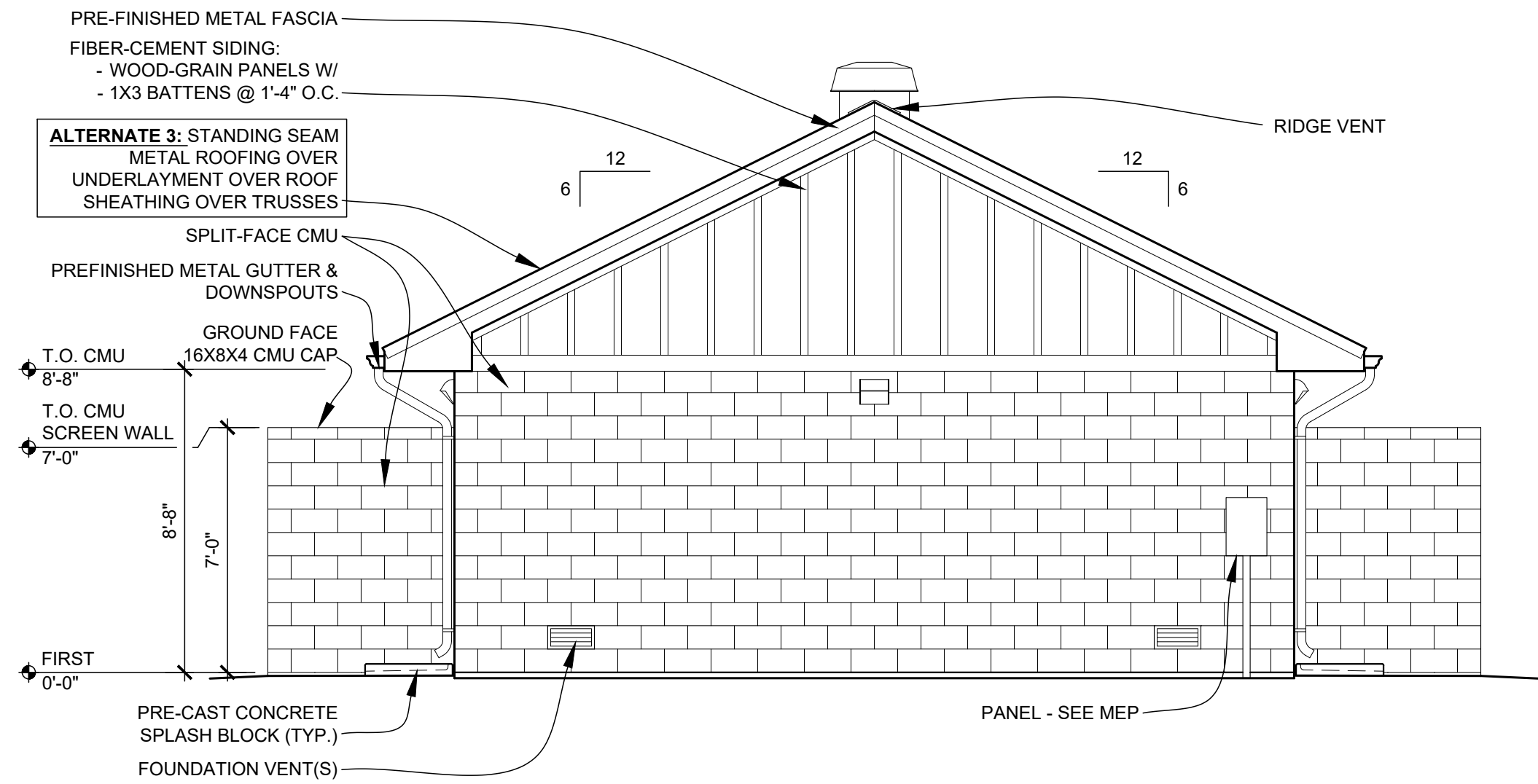
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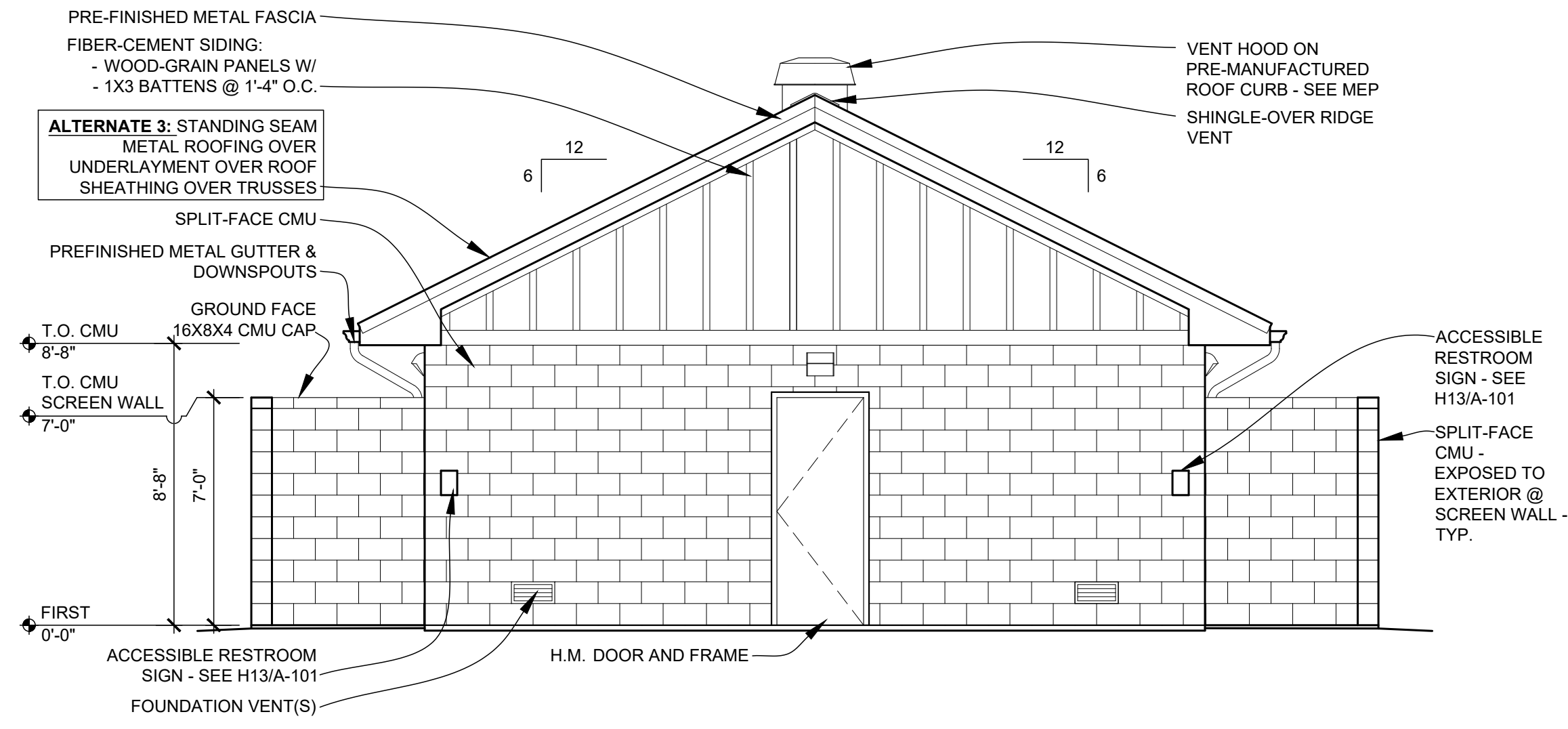
12 OF 20 SHEETS  
8/10/2022



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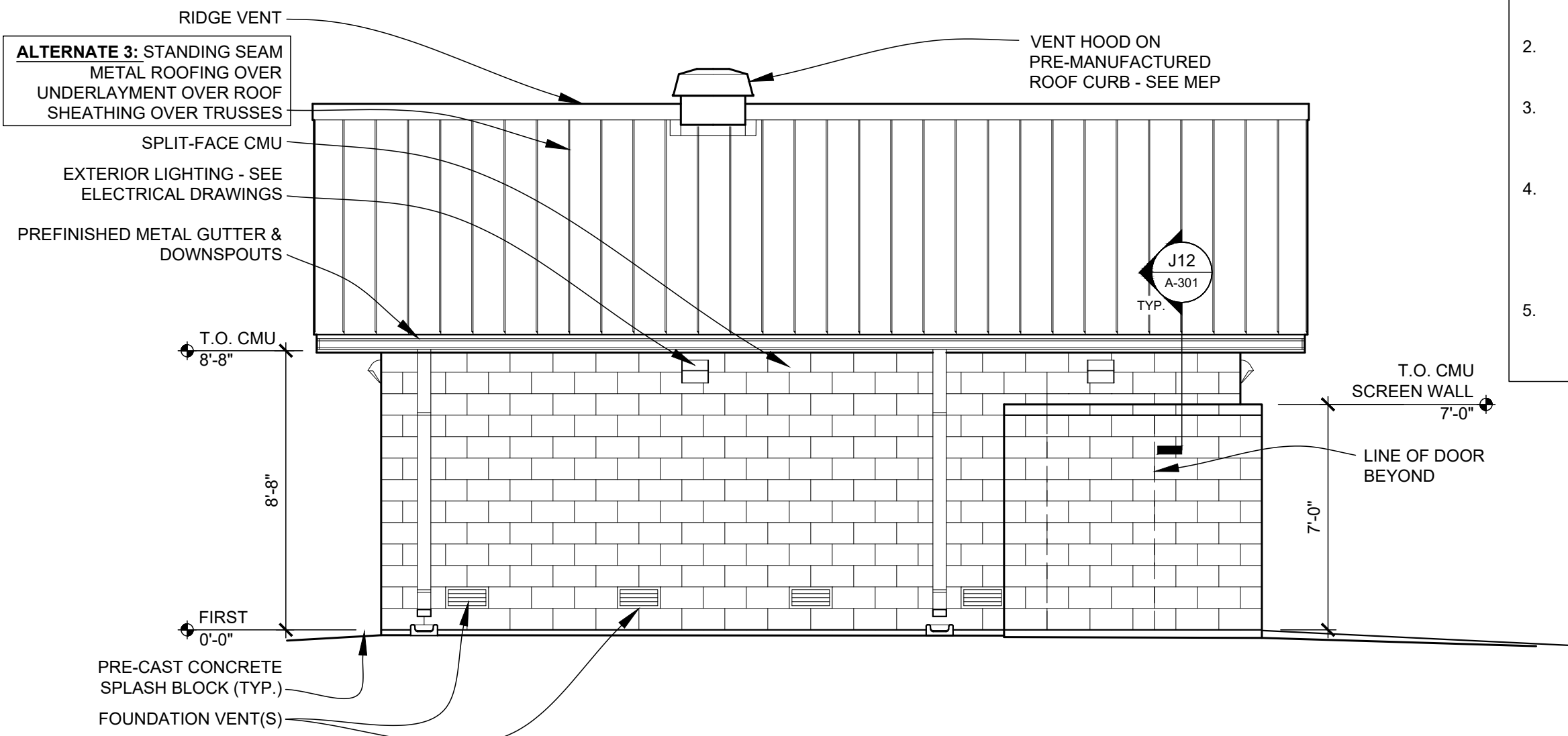


**ALTERNATE 3: WEST ELEVATION**  
SCALE: 1/4" = 1'-0"

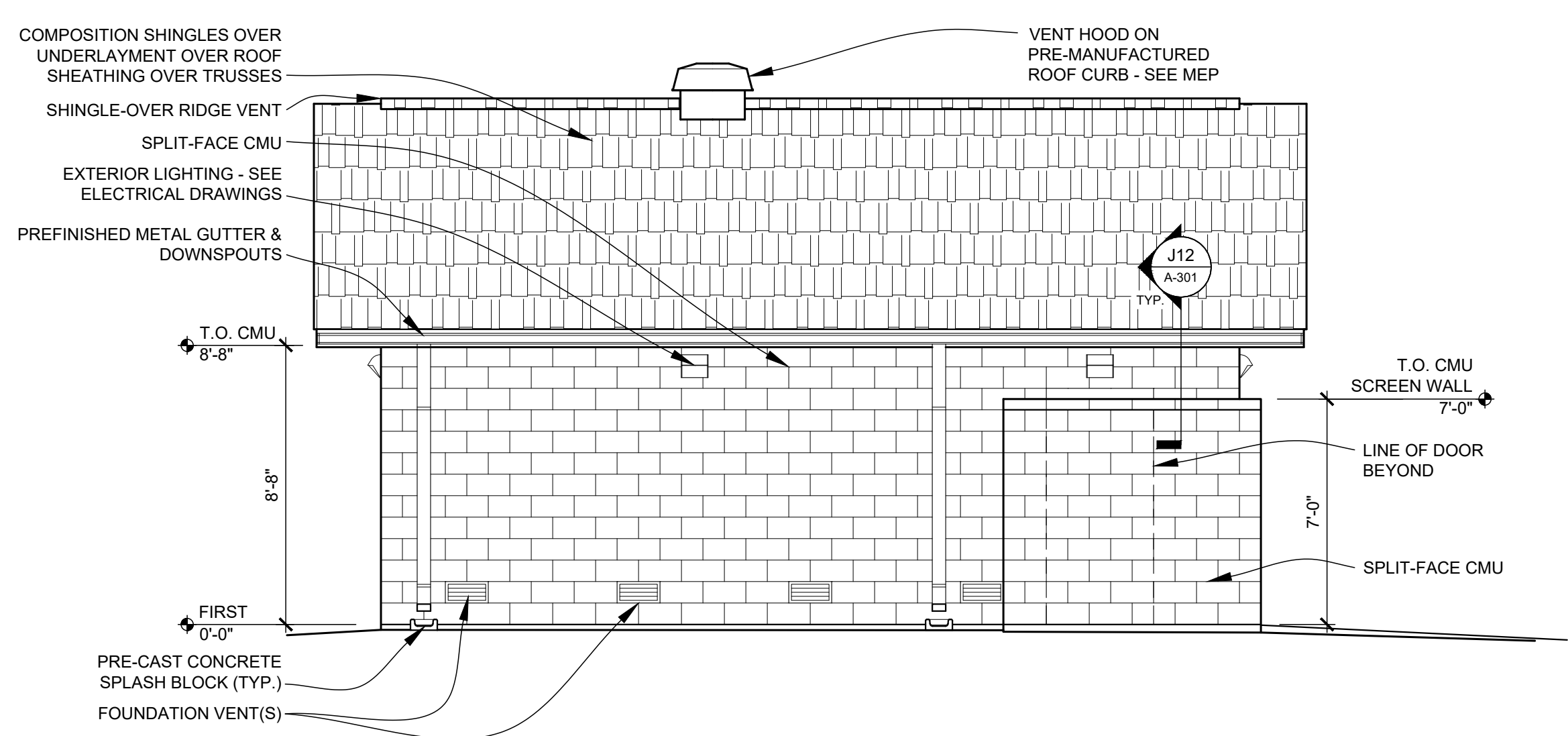


**ALTERNATE 3: EAST ELEVATION**  
SCALE: 1/4" = 1'-0"

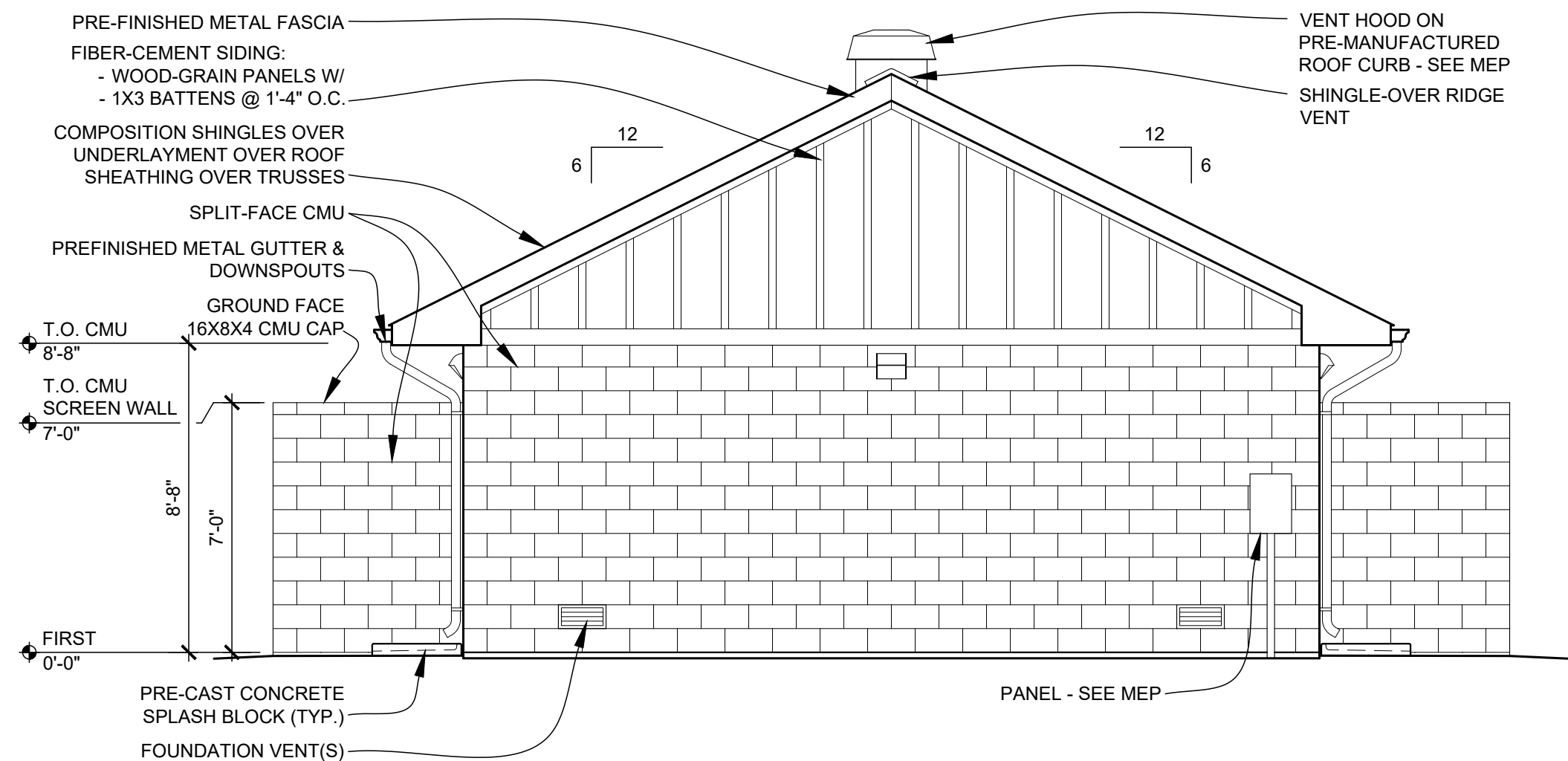
- GENERAL ELEVATION NOTES**
- SEE WALL SECTIONS FOR ADDITIONAL DETAILS, MATERIALS, NOTES, AND DIMENSIONS.
  - SEE SITE PLAN FOR EXACT FINISH GRADE ELEVATIONS.
  - SEE SITE PLAN FOR RETAINING WALLS, SIDEWALKS & SLABS, DETAILS, LOCATIONS AND DIMENSIONS.
  - SEE WALL SECTIONS FOR APPROPRIATE BRICK LEDGES. BRICK LEDGES TO BE BELOW FINAL GRADE. MAKE FIELD ADJUSTMENTS AS NECESSARY TO ACCOMPLISH THIS W/ FIELD CONDITIONS.
  - APPLY FIBERED ASPHALTIC COATING TO FACE OF ANY BELOW-GRADE CMU. STOP TOP OF COATING AT GRADE, TYP.



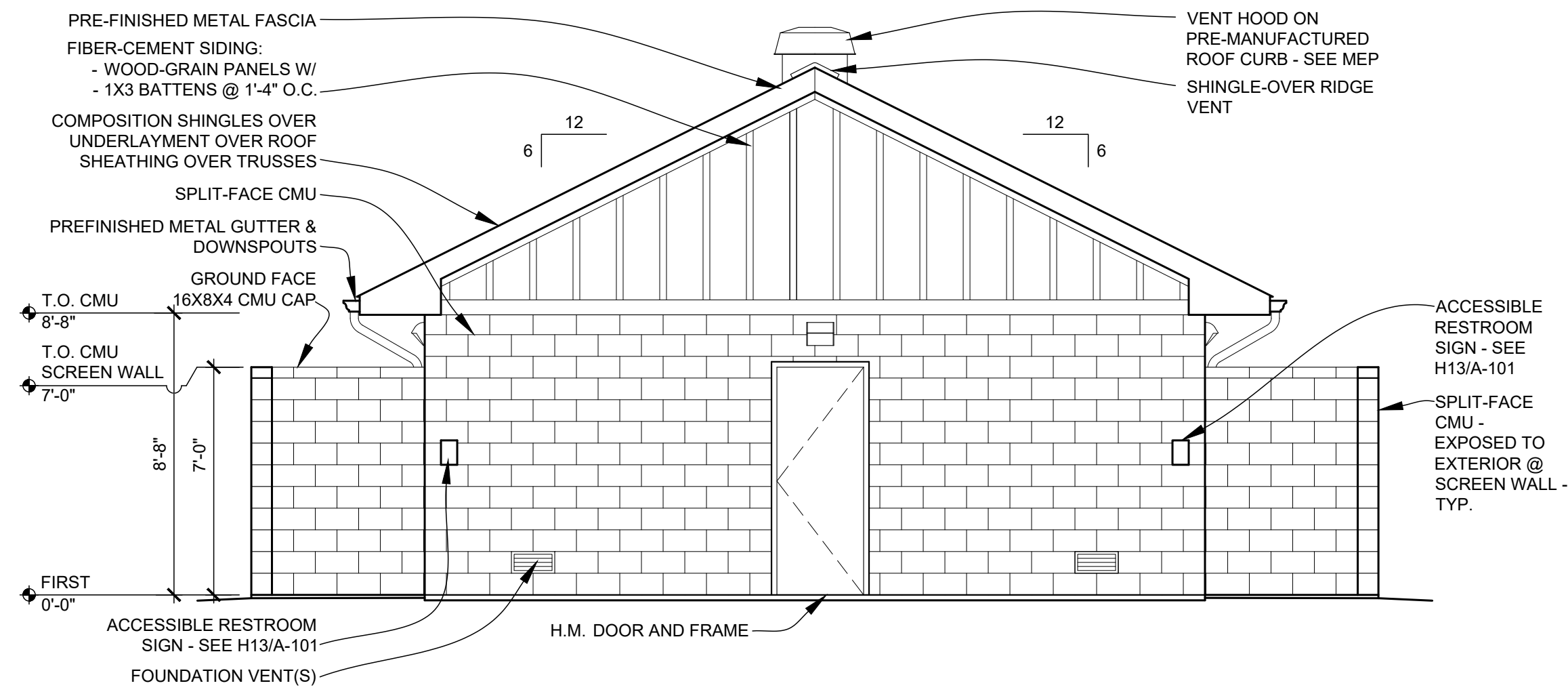
**ALTERNATE 3: SOUTH ELEVATION (NORTH SIM., MIRR.)**  
SCALE: 1/4" = 1'-0"



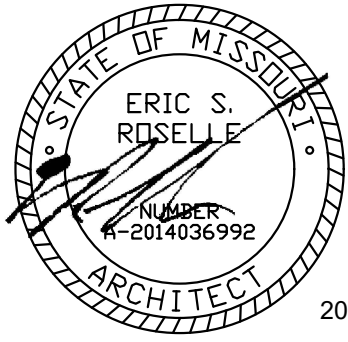
**SOUTH ELEVATION (NORTH SIM., MIRR.)**  
SCALE: 1/4" = 1'-0"



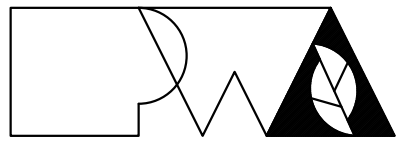
**WEST ELEVATION**  
SCALE: 1/4" = 1'-0"



**EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



2022.08.10



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NEW COMFORT STATION

MISSOURI STATE  
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2503 W. 16TH St.  
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PROJECT # F2206-01  
SITE # 1501  
ASSET # 3511501146

REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 08/10/2022

CAD DWG FILE: A-201  
DRAWN BY: ER  
CHECKED BY: ER  
DESIGNED BY: ER

SHEET TITLE:  
**ELEVATIONS &  
DETAILS**

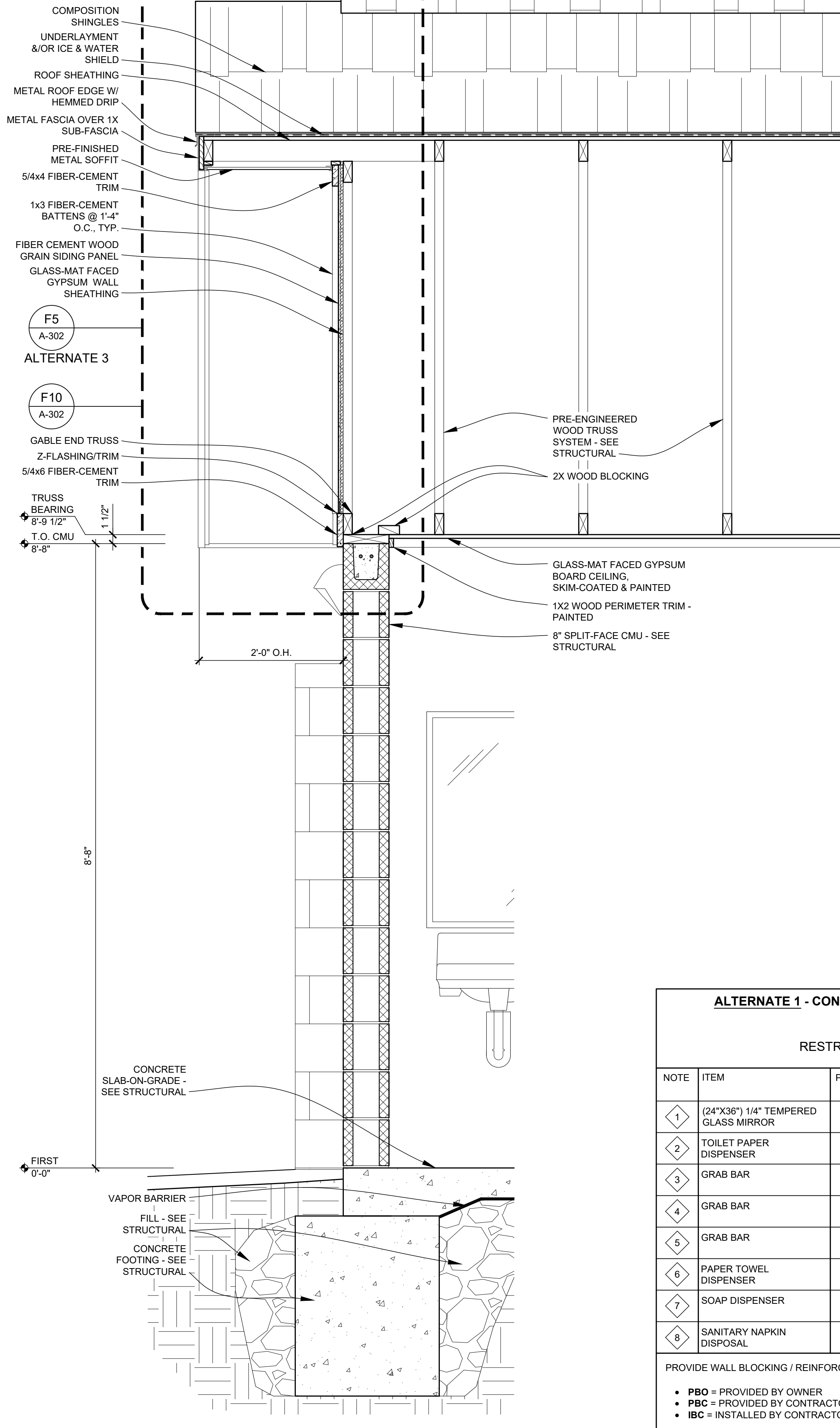
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**A-201**

13 OF 20 SHEETS  
8/10/2022

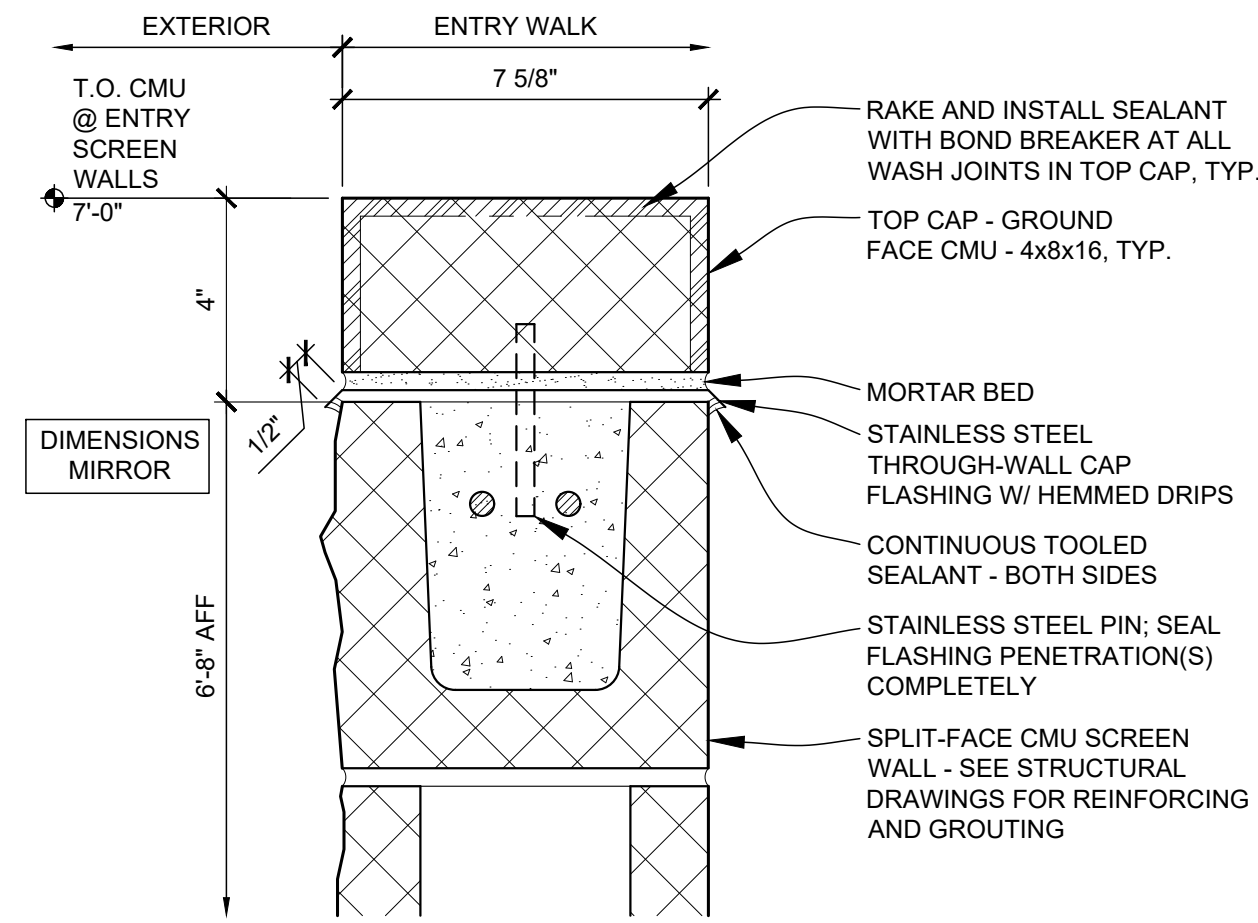
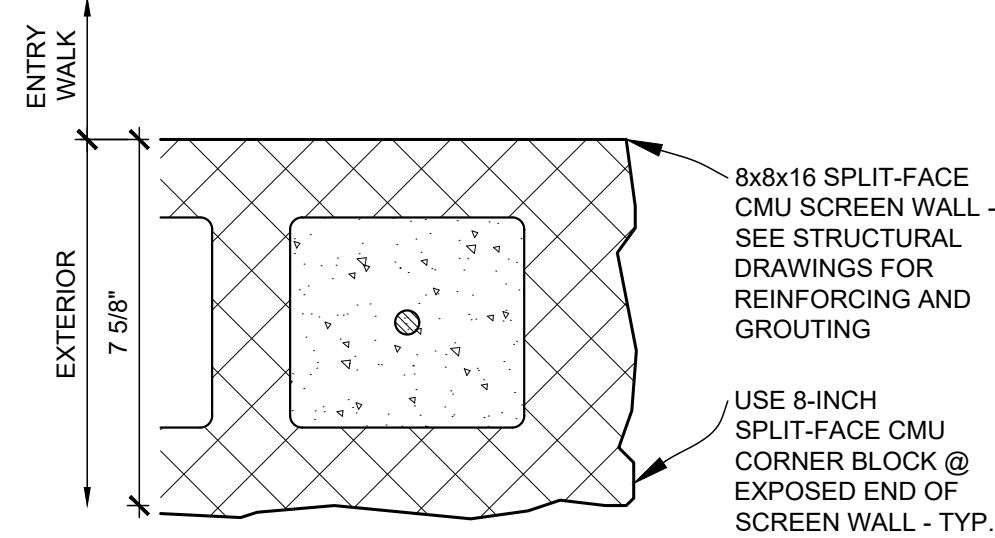


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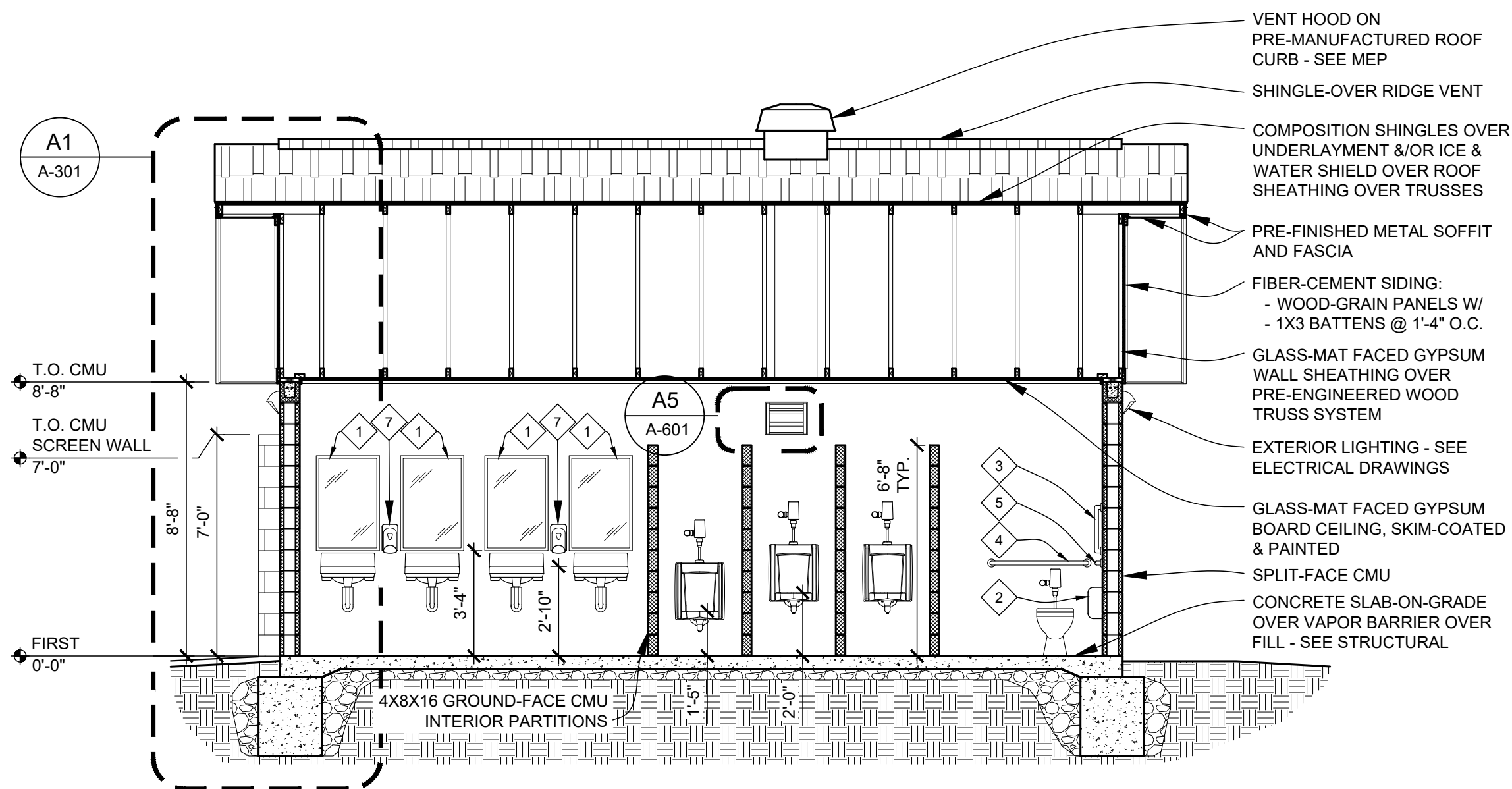
#### GENERAL BUILDING SECTION NOTES

- SEE FINISH SCHEDULE FOR ALL FINISHES AND CEILING HEIGHTS.
- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- VERIFY ALL ROUGH OPENINGS FOR DOORS, LOUVERS, EQUIPMENT & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
- SEE DOOR SCHEDULES FOR ALL DOOR AND DIMENSIONS AND DETAILS.
- REFER TO M.E.P. DRAWINGS FOR DETAILED INFORMATION REGARDING M.E.P. SYSTEMS.



**SCREEN WALL - PLAN DETAIL AT END**  
SCALE: 3" = 1'-0"

**SCREEN WALL - TOP OF WALL SECTION DETAIL**  
SCALE: 3" = 1'-0"



**BUILDING SECTION - EAST/WEST**  
SCALE: 1/4" = 1'-0"

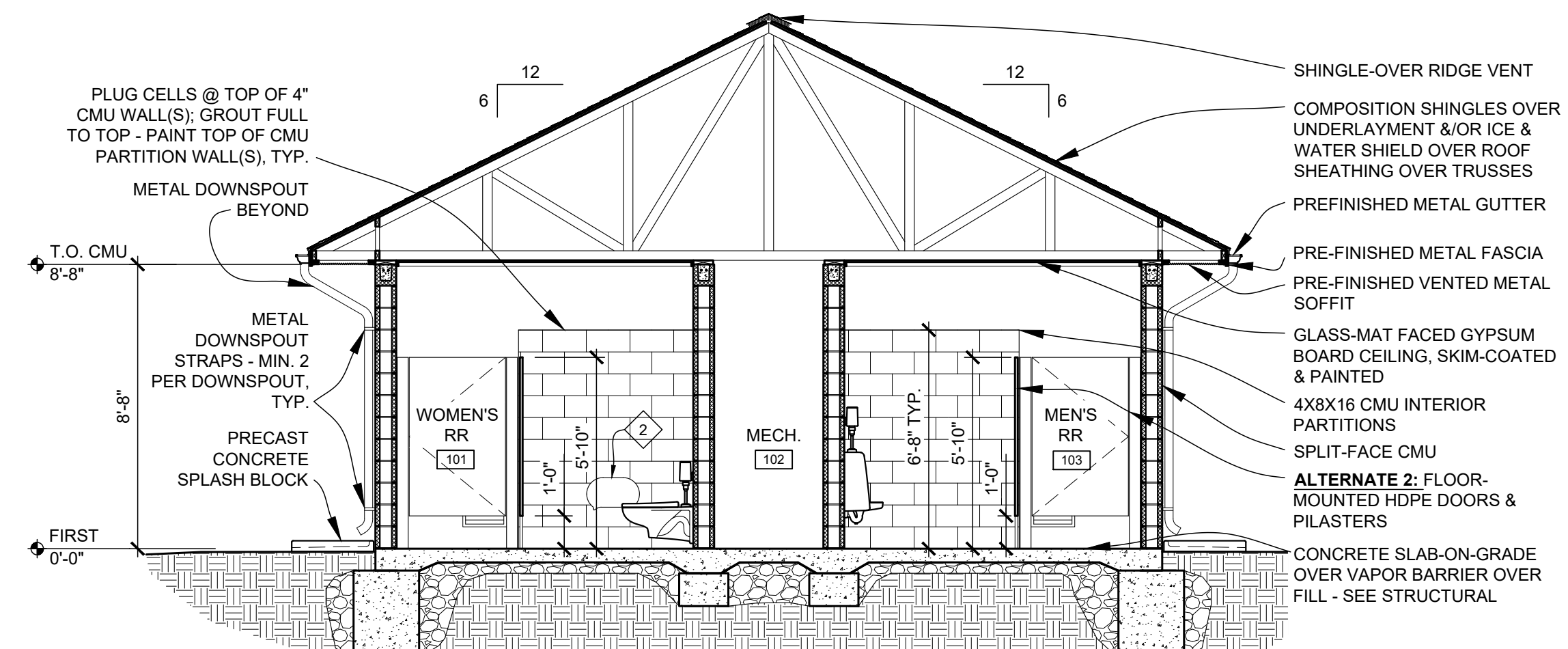
#### ALTERNATE 1 - CONTRACTOR-INSTALLED PLUMBING FIXTURES AND TOILET ACCESSORIES

##### RESTROOM ACCESSORY SCHEDULE

NOTE	ITEM	PROVIDED BY:	INSTALLED BY:	MODEL	REMARKS
1	(24"x36") 1/4" TEMPERED GLASS MIRROR	PBC	IBC	BOBRICK B-2908 2436	
2	TOILET PAPER DISPENSER	PBO	IBC	CASCADES PRO D812	
3	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 18	
4	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 36	
5	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 42	
6	PAPER TOWEL DISPENSER	PBO	IBC	CASCADES PRO C340	
7	SOAP DISPENSER	PBO	IBC	SPARTAN LITE N' FOAMY	
8	SANITARY NAPKIN DISPOSAL	PBC	IBC	BOBRICK B-254	

PROVIDE WALL BLOCKING / REINFORCING AS REQUIRED FOR ACCESSORY INSTALLATION AND MOUNTING.

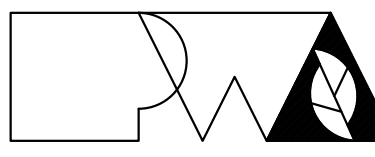
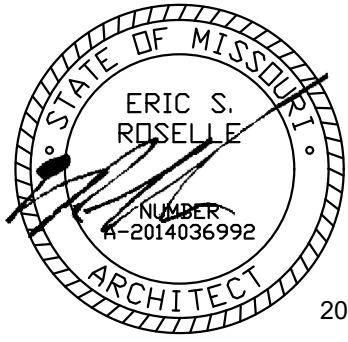
- PBO = PROVIDED BY OWNER
- PBC = PROVIDED BY CONTRACTOR (ALTERNATE 1)
- IBC = INSTALLED BY CONTRACTOR (ALTERNATE 1)



**BUILDING SECTION - NORTH/SOUTH**  
SCALE: 1/4" = 1'-0"

**WALL SECTION**  
SCALE: 1" = 1'-0"

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DATE: \_\_\_\_\_  
ISSUE DATE: 08/10/2022

CAD DWG FILE: A-301  
DRAWN BY: ER  
CHECKED BY: ER  
DESIGNED BY: ER

SHEET TITLE:  
**SECTIONS &  
DETAILS**

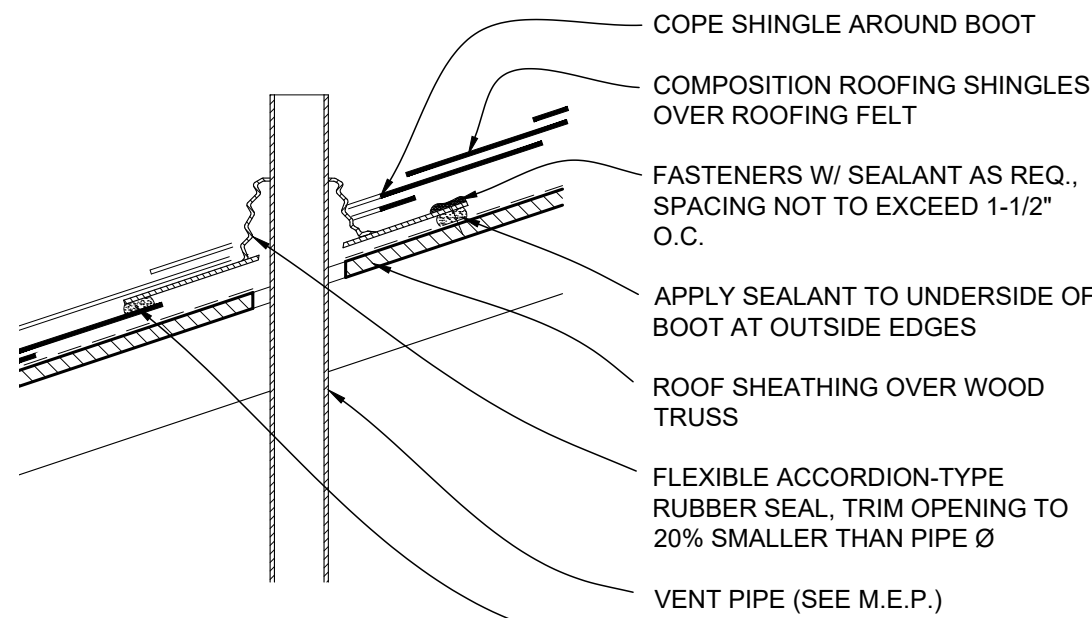
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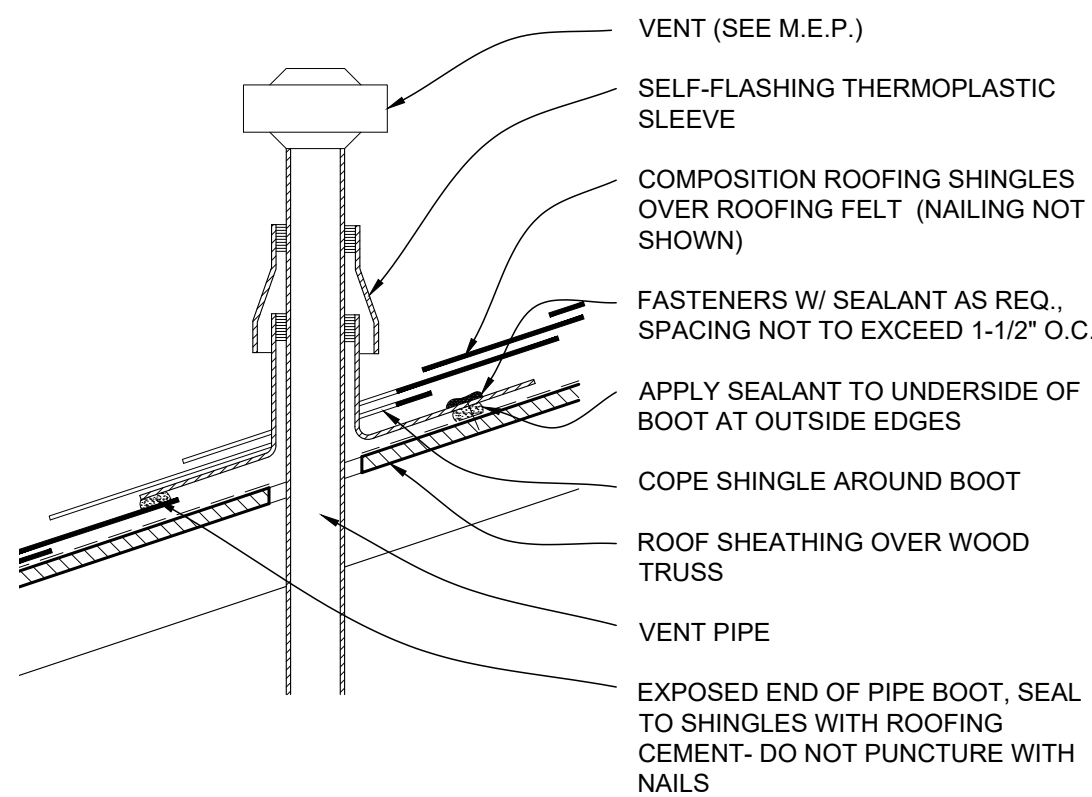
14 OF 20 SHEETS  
8/10/2022



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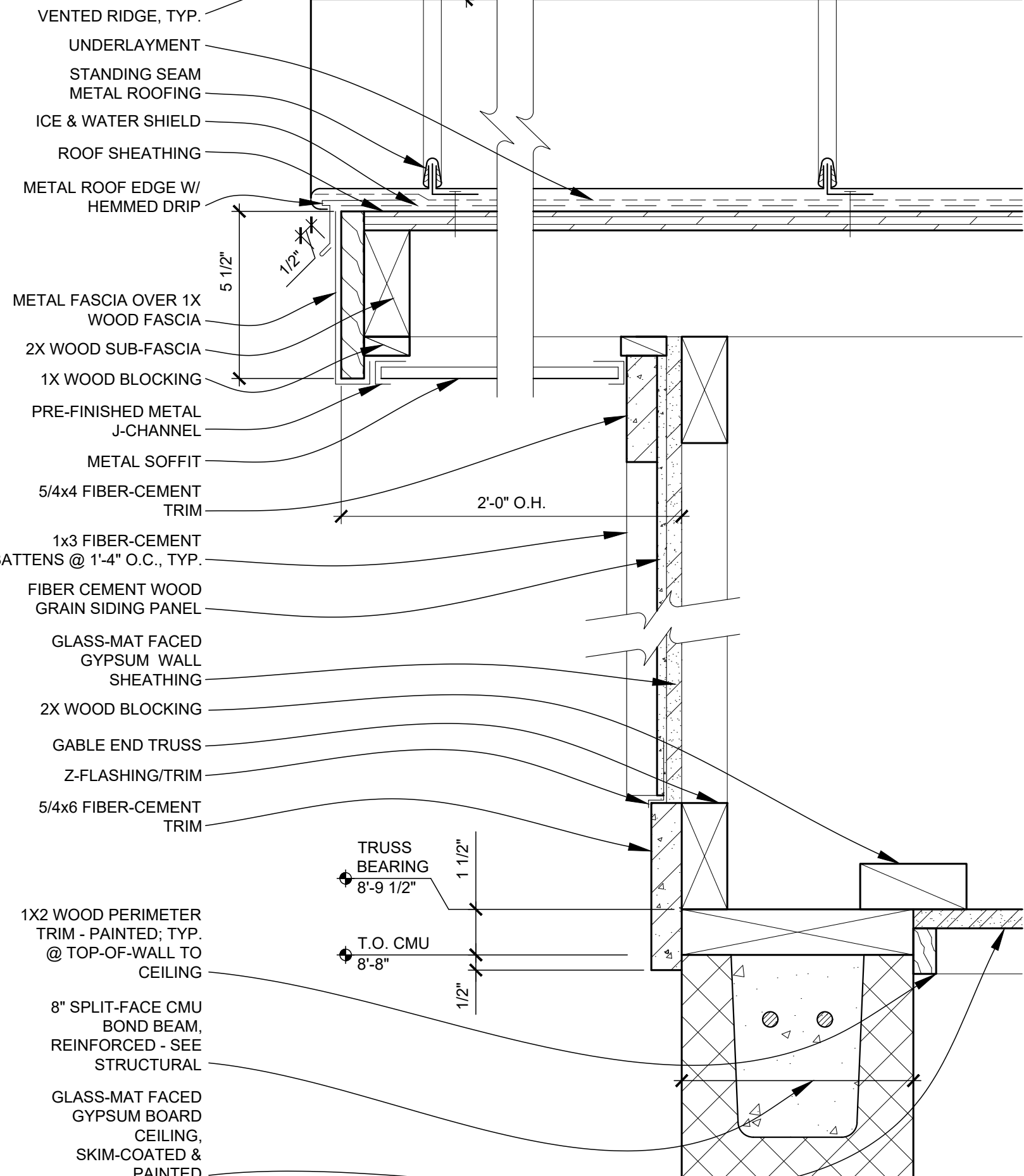


J1 TYP. VENT PIPE FLASHING DETAIL  
SCALE: 1-1/2" = 1'-0"



F1 TYP. VENT PIPE FLASHING DETAIL  
SCALE: 1-1/2" = 1'-0"

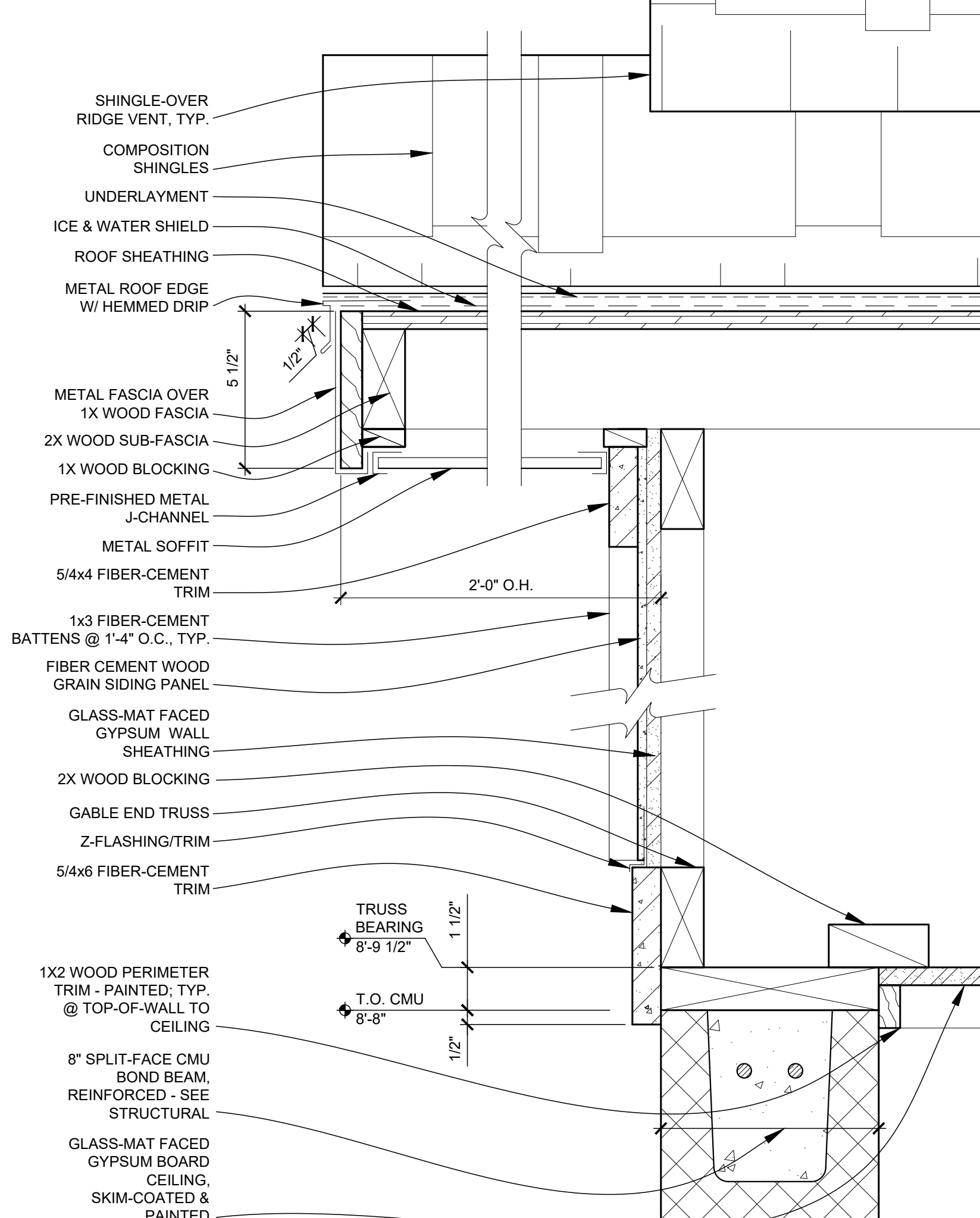
ALTERNATE 3: STANDING SEAM  
METAL ROOFING OVER  
UNDERLAYMENT OVER ROOF  
SHEATHING OVER TRUSSES



F5 J1 A-301 ALTERNATE 3: GABLE DETAIL  
SCALE: 3" = 1'-0"

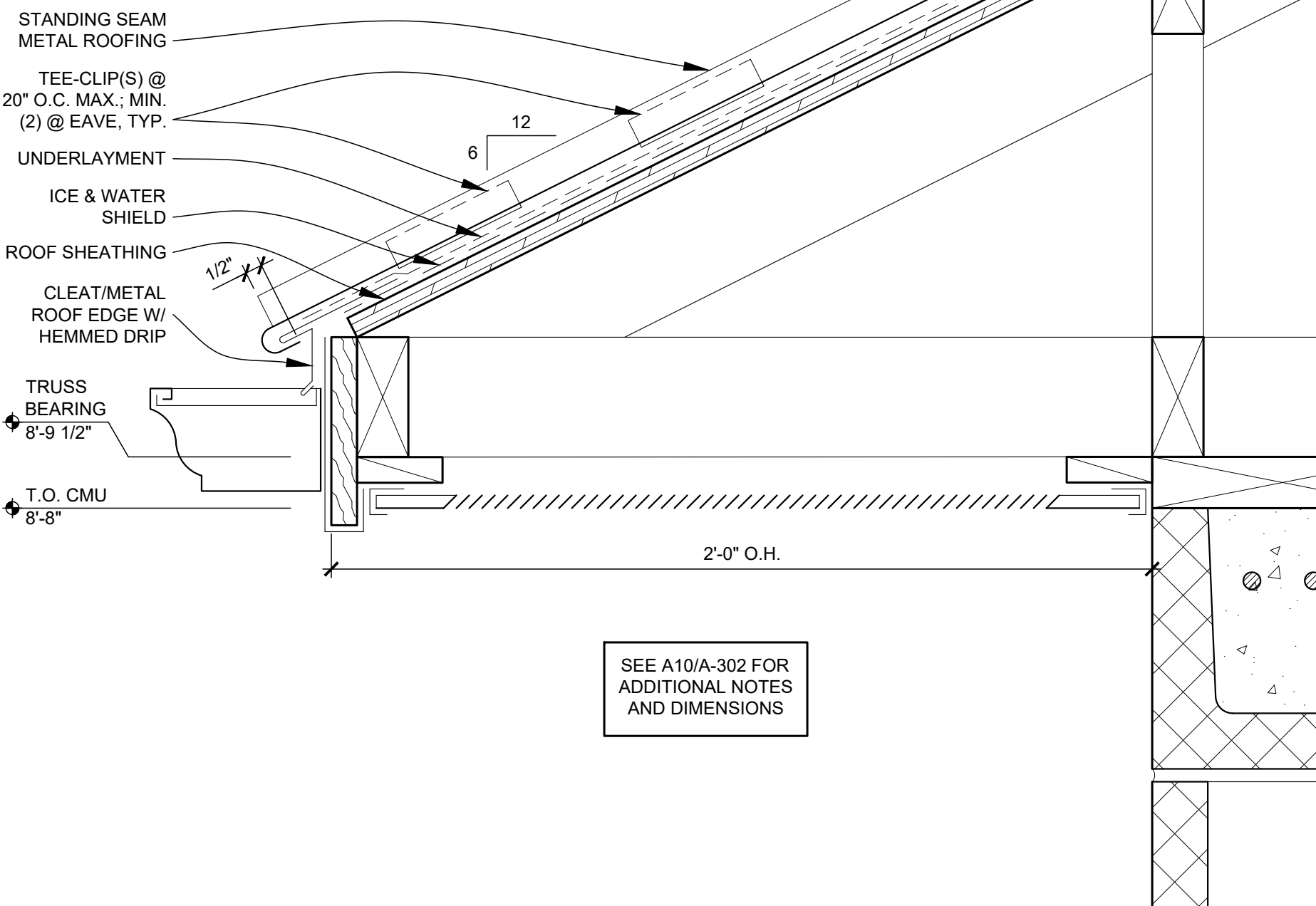
GENERAL BUILDING SECTION NOTES

1. SEE FINISH SCHEDULE FOR ALL FINISHES AND CEILING HEIGHTS.
2. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
3. VERIFY ALL ROUGH OPENINGS FOR DOORS, LOUVERS, EQUIPMENT & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
4. SEE DOOR SCHEDULES FOR ALL DOOR AND DIMENSIONS AND DETAILS.
5. REFER TO M.E.P. DRAWINGS FOR DETAILED INFORMATION REGARDING M.E.P. SYSTEMS.



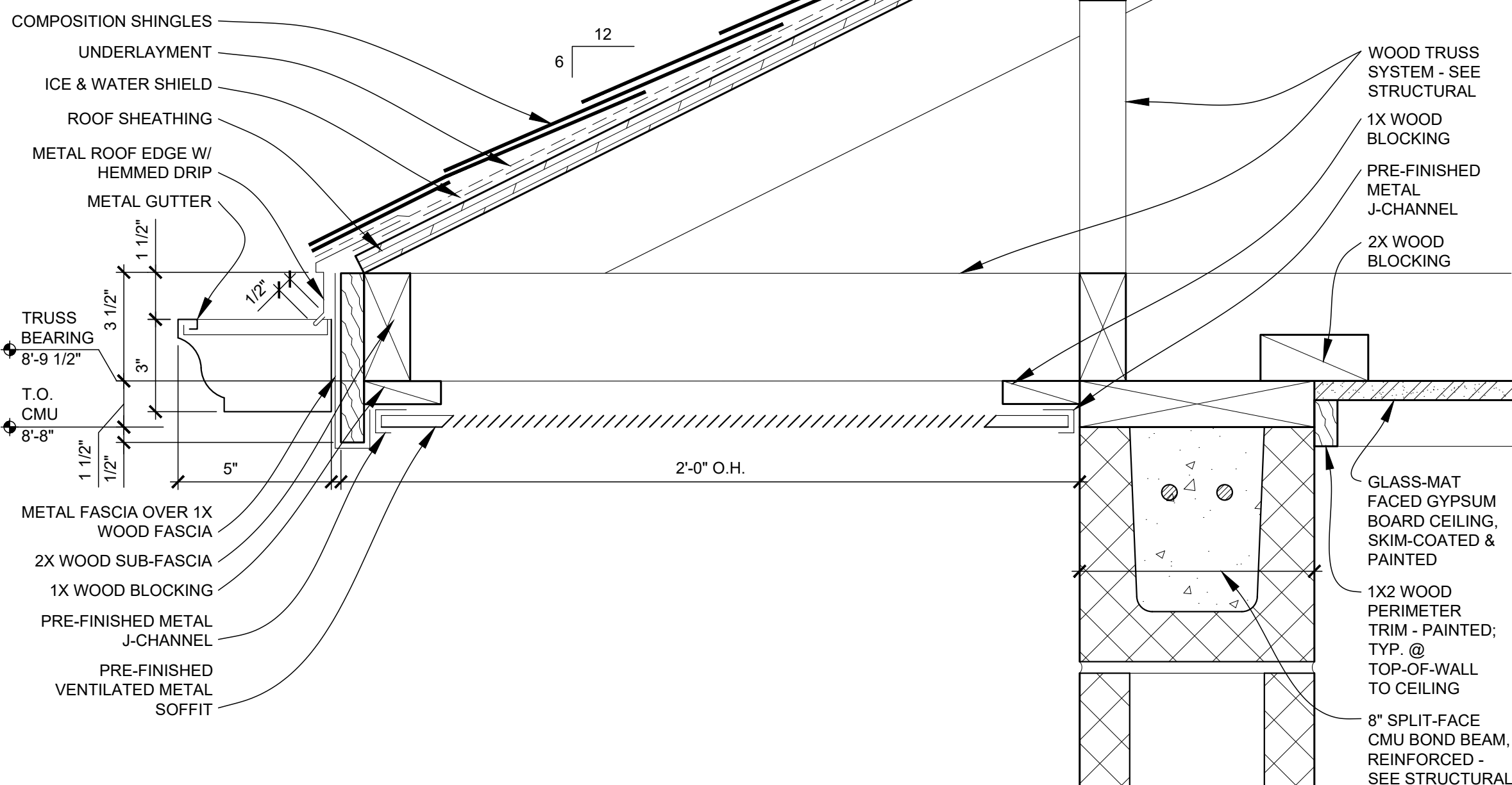
F10 J1 A-301 GABLE DETAIL  
SCALE: 3" = 1'-0"

ALTERNATE 3: STANDING SEAM  
METAL ROOFING OVER  
UNDERLAYMENT OVER ROOF  
SHEATHING OVER TRUSSES



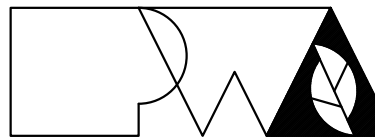
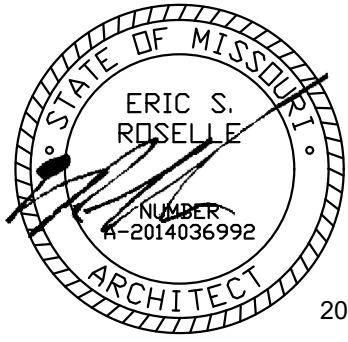
A1 K3 A-101 ALTERNATE 3: VENTED RIDGE DETAIL  
SCALE: 3" = 1'-0"

A5 G3 A-101 ALTERNATE 3: EAVE DETAIL  
SCALE: 3" = 1'-0"



A10 A3 A-101 EAVE DETAIL  
SCALE: 3" = 1'-0"

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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OFFICE OF ADMINISTRATION  
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MANAGEMENT,  
DESIGN AND CONSTRUCTION

NEW COMFORT STATION

MISSOURI STATE  
FAIRGROUNDS (MSF)  
2503 W. 16TH St.  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 3511501146

REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 08/10/2022

CAD DWG FILE: A-301  
DRAWN BY: ER  
CHECKED BY: ER  
DESIGNED BY: ER

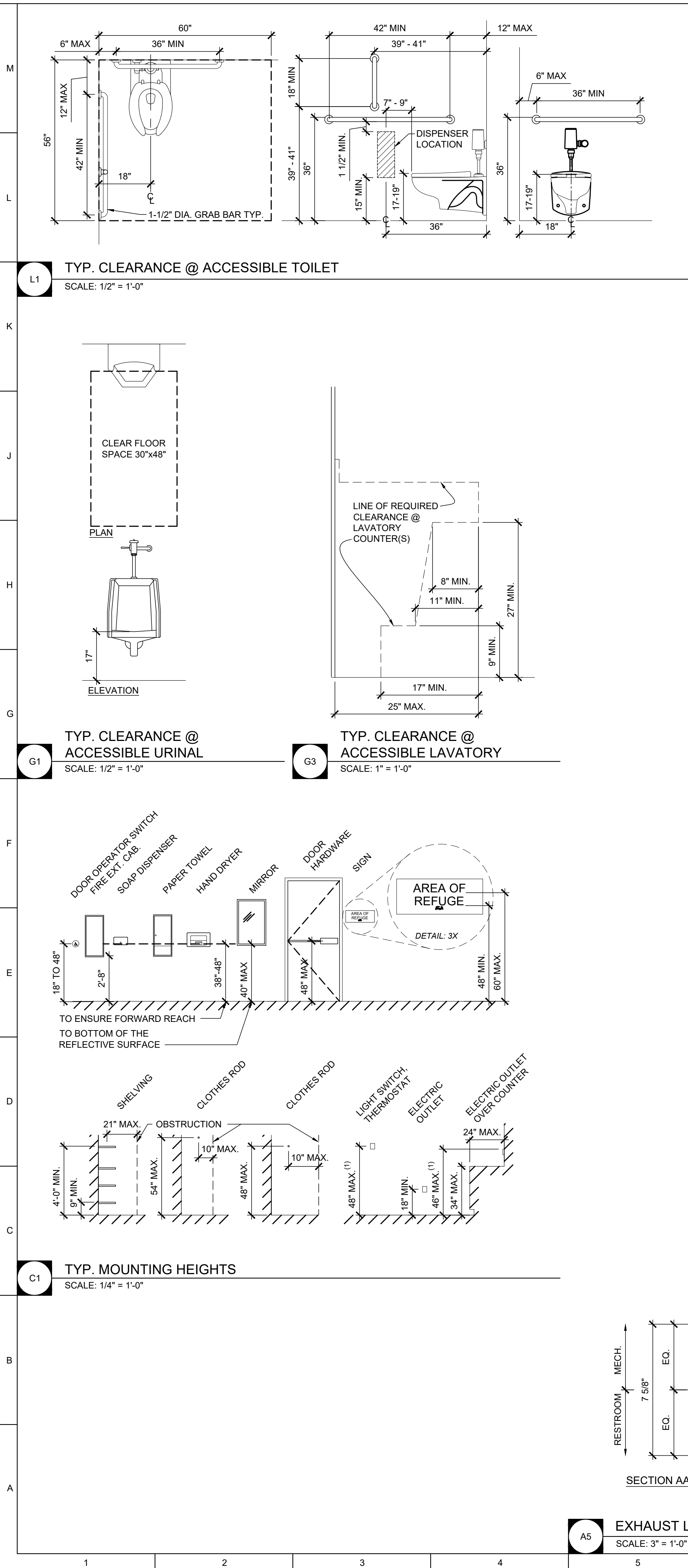
SHEET TITLE:  
**SECTIONS &  
DETAILS**

SHEET NUMBER:

**A-302**

15 OF 20 SHEETS  
8/10/2022





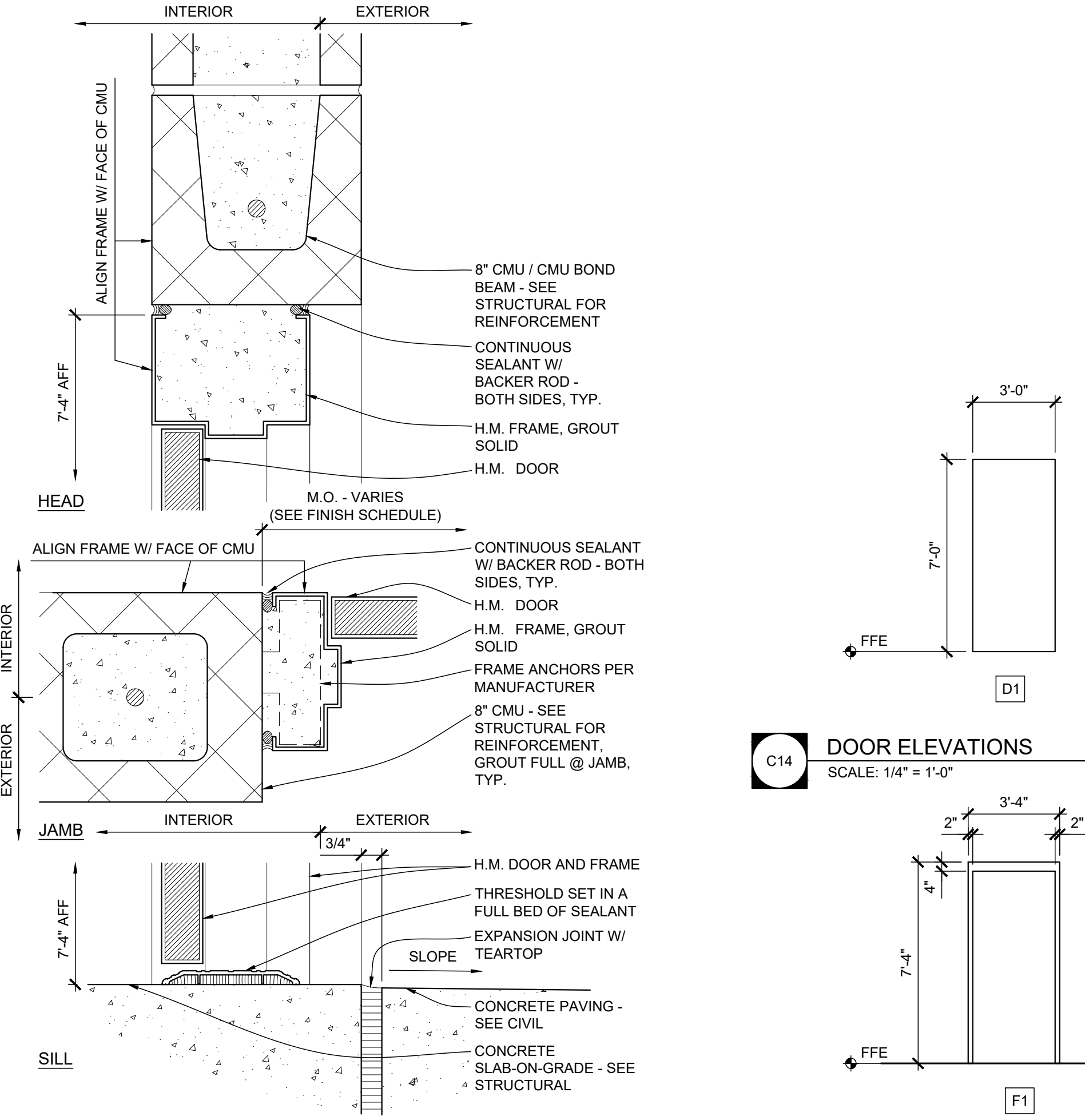
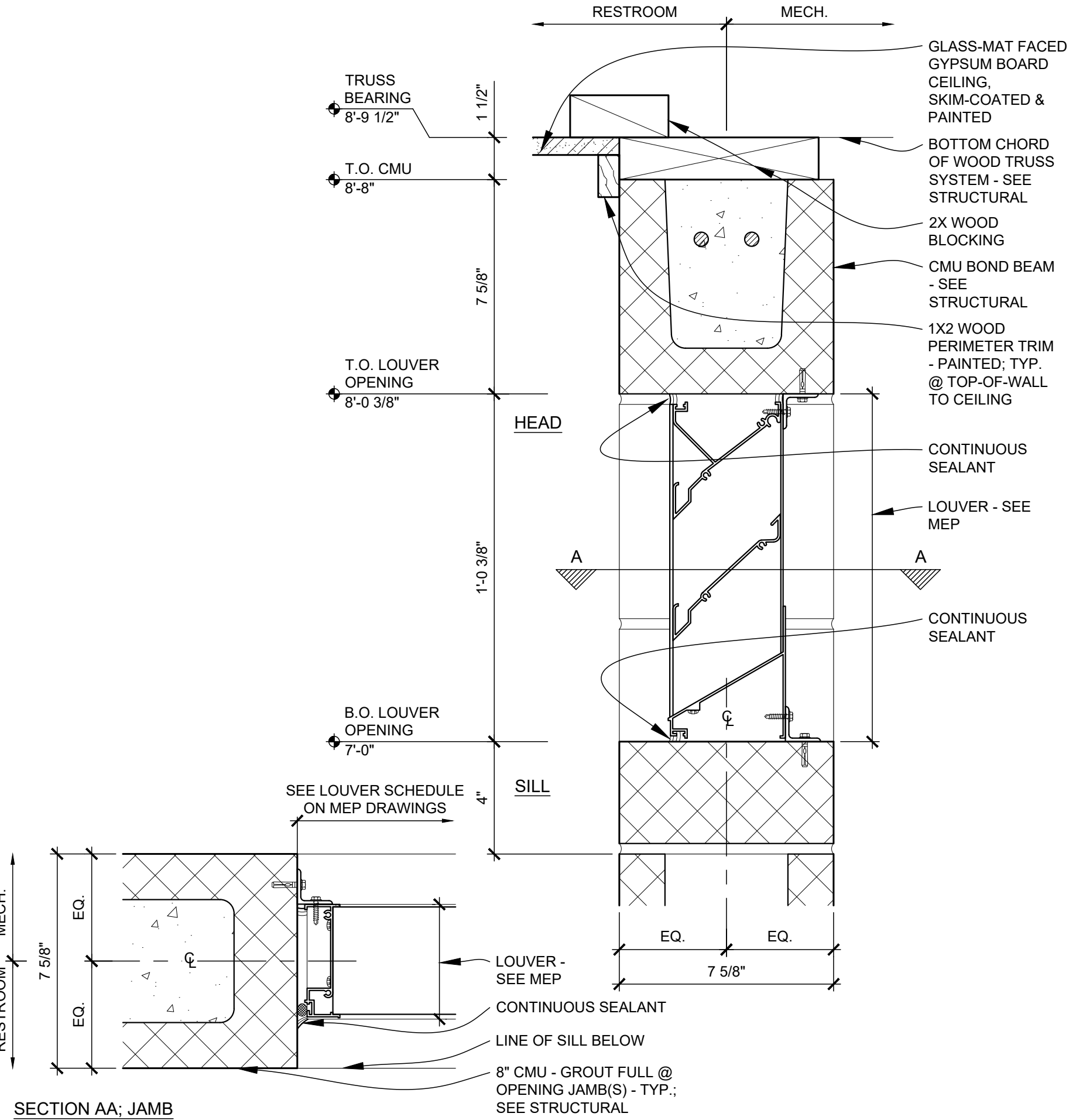
GENERAL DOOR DETAIL NOTES	
1.	FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2.	VERIFY ALL ROUGH OPENINGS FOR DOORS, LOUVERS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
3.	LOCATE DOOR OPENINGS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 6" FROM FINISH WALL TO FINISH JAMB.
4.	SEE DOOR SCHEDULE FOR DOOR DIMENSIONS AND DETAILS.

GENERAL LOUVER DETAIL NOTES	
1.	FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2.	VERIFY ALL ROUGH OPENINGS FOR DOORS, LOUVERS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.

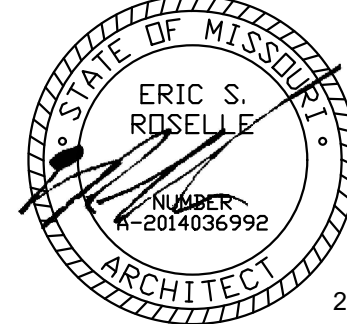
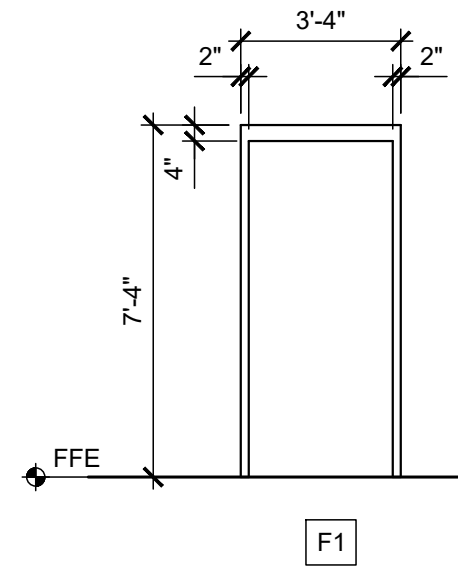
ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR MAT'L	BASE MAT'L	WALL				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
FIRST FLOOR										
101	WOMEN'S RESTROOM	SC	--	PNT-01	PNT-01	PNT-01	PNT-01	PGB-01	8'-9"	
102	MECHANICAL	SC	--	--	--	--	--	EXPOSED		
103	MEN'S RESTROOM	SC	--	PNT-01	PNT-01	PNT-01	PNT-01	PGB-01	8'-9"	

INTERIOR FINISH LEGEND					
FINISH TAG	MATERIAL	MFR.	STYLE	COLOR	COMMENTS
FLOORING					
SC	SEALED CONCRETE	PROSOCO	CONSOLIDECK LSGUARD		
WALL					
PNT-01	PAINT CMU	SHERWIN WILLIAMS	SATIN UNO	SW7015 REPOSE GRAY	ALTERNATE 2: PNT-01 - EPOXY PAINT SYSTEM - SEE SPECIFICATION
CEILING					
PGB-01	PAINT GYPSUM BOARD	SHERWIN WILLIAMS	FLAT UNO	SW7007 CEILING BRIGHT WHITE	
OTHER					
	HDPE TOILET PARTITION	SCRANTON	HINY HIDERS	CHARCOAL GREY; TEXTURE: OP	ALTERNATE 2: HDPE TOILET PARTITION
	HM DOORS & DOOR FRAMES	SHERWIN WILLIAMS	SEMI-GLOSS UNO	SW6203 SPARE WHITE	

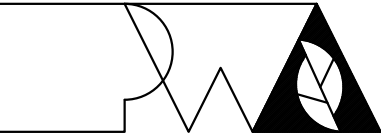
DOOR SCHEDULE										FRAME SCHEDULE										HARDWARE GROUP	FIRE RATING	REMARKS
DOOR NO.	DOOR LEAF SIZE (W x H)	MATERIAL				LITE (TEMPERED GLS)	FRAME SIZE (W x H)	MATERIAL				LITE (TEMPERED GLS)	DETAILS									
		DOOR ELEVATION	WOOD	HOLLOW METAL	ALUMINUM			OTHER	FRAME ELEVATION	WOOD	HOLLOW METAL		ALUMINUM	OTHER	HEAD	JAMB	SILL					
FIRST FLOOR																						
101	3'-0" X 7'-0"	D1		X			3'-4" X 7'-4"	F1		X				A10/A-601	A10/A-601	A10/A-601	SEE SPEC.	--				
102	2'-8" X 7'-0"	D1		X			3'-0" X 7'-4"	F1		X				A10/A-601	A10/A-601	A10/A-601	SEE SPEC.	--				
103	3'-0" X 7'-0"	D1		X			3'-4" X 7'-4"	F1		X				A10/A-601	A10/A-601	A10/A-601	SEE SPEC.	--				



**C14 DOOR ELEVATIONS**  
SCALE: 1/4" = 1'-0"



2022.08.10



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DESIGN AND CONSTRUCTION

NEW COMFORT STATION

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FAIRGROUNDS (MSF)  
2503 W. 16TH St.  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 3511501146

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 08/10/2022

CAD DWG FILE: A-601  
DRAWN BY: ER  
CHECKED BY: ER  
DESIGNED BY: ER

SHEET TITLE:  
**SCHEDULES &  
DETAILS**

SHEET NUMBER:

**A-601**

16 OF 20 SHEETS  
8/10/2022



GENERAL MEP SPECIFICATIONS

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
2. THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
4. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURE'S PUBLISHED INSTRUCTIONS.
5. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
7. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
8. CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH THEIR WORK.
9. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE.
10. THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
11. SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

REFERENCED CODES IN EFFECT

2018 INTERNATIONAL MECHANICAL CODE

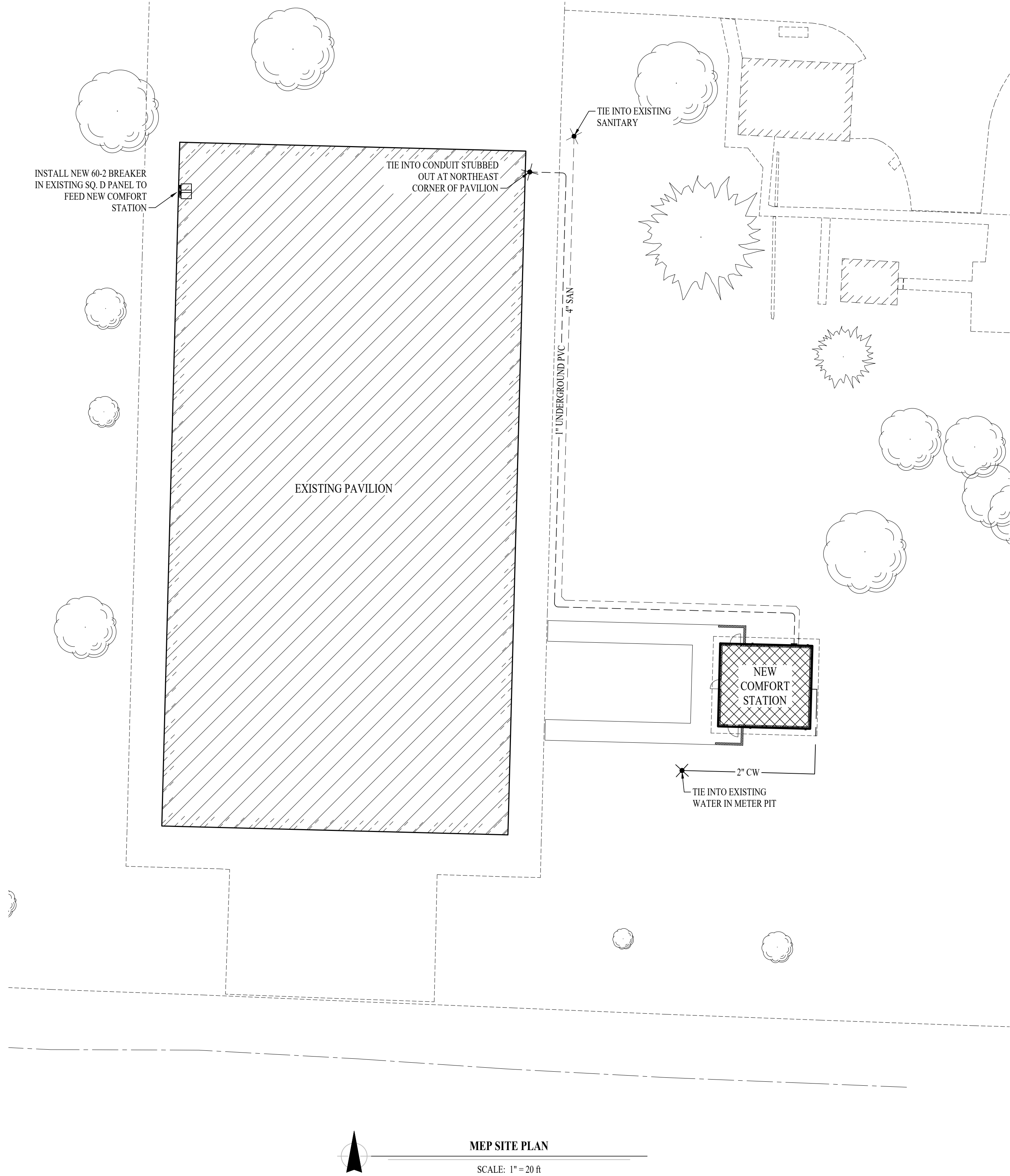
2018 INTERNATIONAL PLUMBING CODE

2018 INTERNATIONAL FUEL GAS CODE

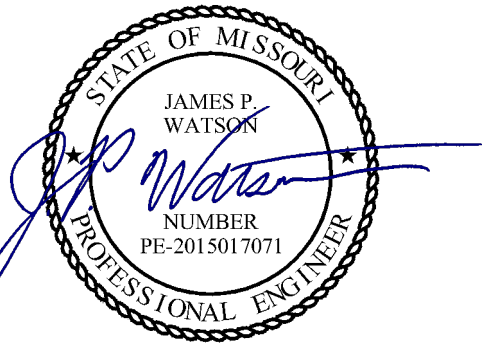
2018 INTERNATIONAL FIRE CODE

2017 NATIONAL ELECTRIC CODE

2018 INTERNATIONAL ENERGY CONSERVATION CODE

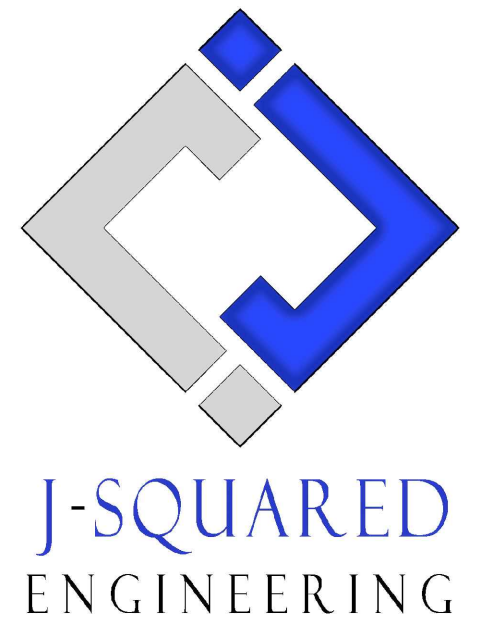


STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



James Watson, P.E. August 10th, 2022  
PE-2015017071  
MO Certificate of Authority # 2018029680

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NEW COMFORT  
STATION

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2503 W. 16th St.  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 35111501147

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 08/10/2022

CAD DWG FILE: J20736  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

SHEET TITLE:

MEP SITE  
UTILITIES PLAN

SHEET NUMBER:

ME-101

17 OF 20 SHEETS  
08/10/2022



HVAC PLAN SYMBOL LEGEND

X

#

→

EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)

X

#

→

EQUIPMENT REFERENCE NUMBER

X

#

→

DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)

X

#

→

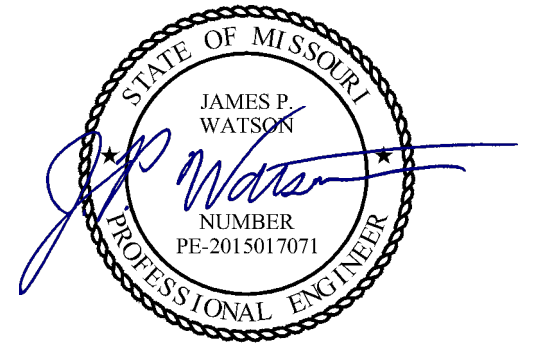
CUBIC FEET PER MINUTE (CFM) / FACE SIZE

EXHAUST DUCTWORK

FAN SCHEDULE							
TAG	EQUIPMENT DESCRIPTION	TYPE	AIRFLOW (CFM)	ELECTRICAL			NOTES
				VOLTS/PH	MCA	OCP	
EF-1	EXHAUST FAN	INLINE	1200	120	4	20	1
NOTES: 1. EQUAL TO SOLER & PALAU TD SERIES (FLOW RATED AT 0.375" ESP)							

AIR DEVICE SCHEDULE						
TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR / FINISH	NOTES
L1	EXHAUST	POTTORFF	EFJ-445	AS INDICATED	PRIMED	PAINT TO MATCH WALL
NOTES: 1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION						

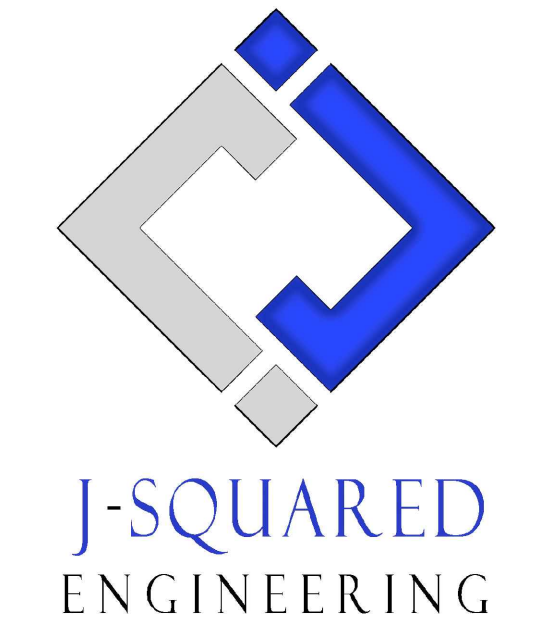
STATE OF MISSOURI  
MICHAEL L. PARSON,  
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CAD DWG FILE: J20736  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

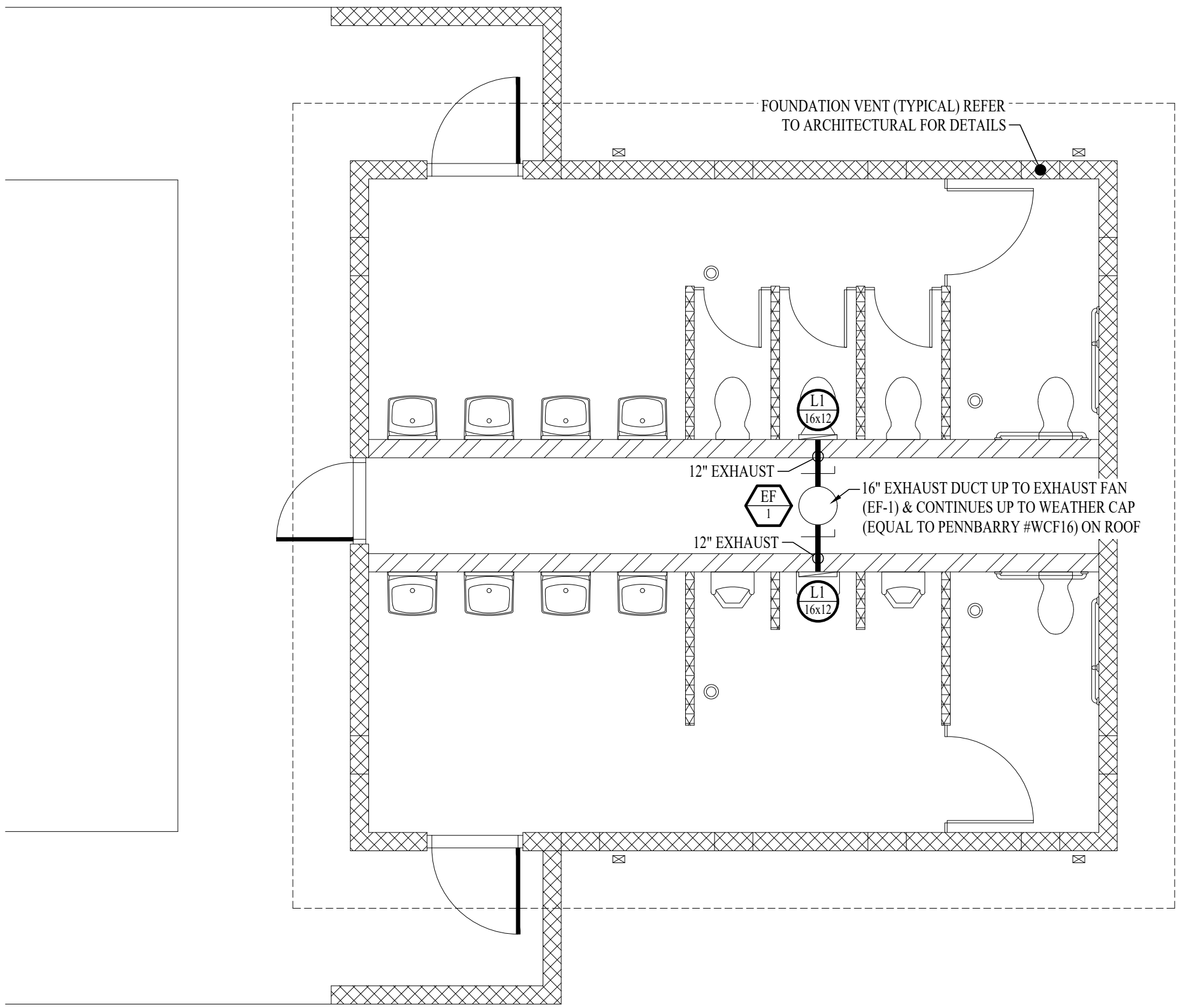
SHEET TITLE:

HVAC PLAN

SHEET NUMBER:

M-101

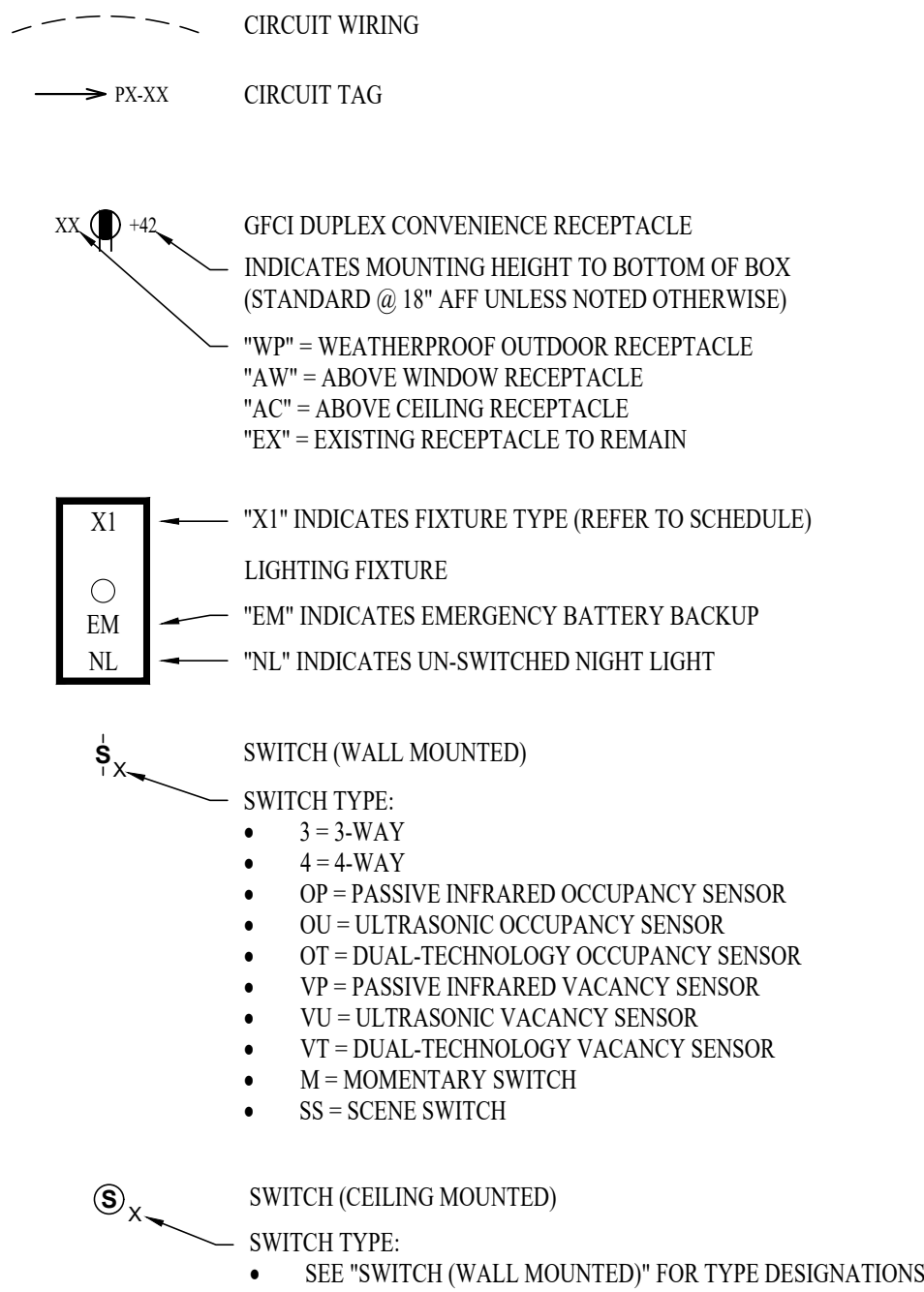
18 OF 20 SHEETS  
08/10/2022



HVAC PLAN  
SCALE: 1/4" = 1'-0"



ELECTRICAL PLANS SYMBOL LEGEND



POWER PLAN KEY NOTES:

- ① WIRE EXTERIOR LIGHTS THRU PHOTOCELL MOUNTED ON BUILDING EXTERIOR RAKE BOARD. PHOTOCELL TO FACE NORTH.
- ② CONTRACTOR TO PROVIDE & INSTALL RELAY / CONTACTOR TO ISOLATE LIGHTING CIRCUIT FROM MEN'S RESTROOM LIGHTING FROM WOMEN'S RESTROOM LIGHTING. BOTH SHALL TURN ON EXHAUST FAN.

ALTERNATE #1 - CONTRACTOR-INSTALLED PLUMBING FIXTURES & TOILET ACCESSORIES:

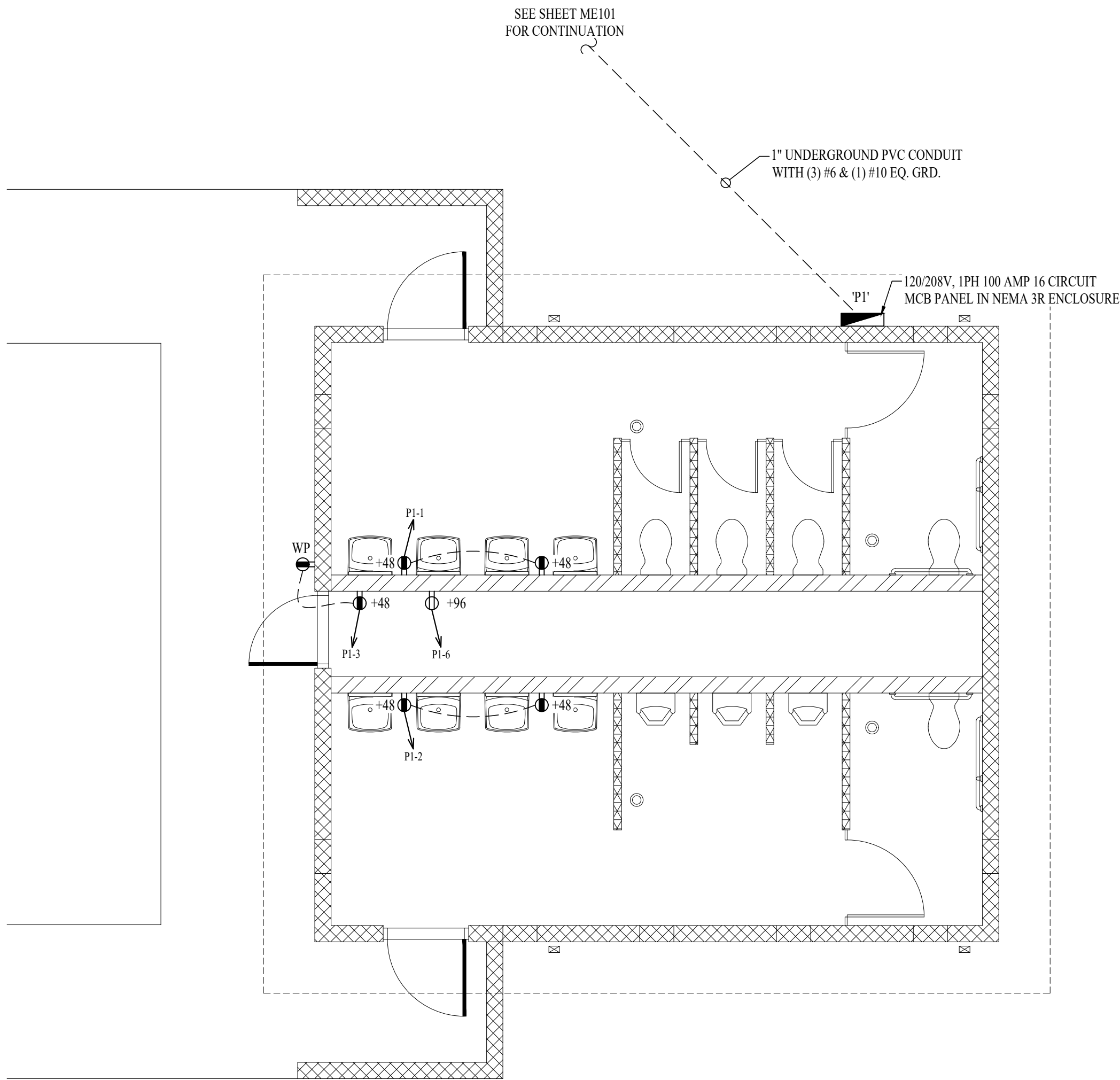
1. CONTRACTOR TO:  
a. PROVIDED & INSTALL PLUMBING FIXTURES TO INCLUDE WATER CLOSETS & FLUSH VALVES, URINALS & FLUSH VALVES, LAVATORIES & FAUCETS.  
b. CONTRACTOR PROVIDED & INSTALLED TOILET ACCESSORIES AS NOTED IN THE "RESTROOM ACCESSORY SCHEDULE INCLUDED ON SHEETS A-101 & A-301."  
2. BASE BID:  
a. CONTRACTOR TO INCLUDE ROUGH-IN & WALL-HUNG BRACKETS FOR THE WATER CLOSETS, URINALS, & LAVATORIES. OWNER TO PROVIDE & INSTALL ALL TOILET ACCESSORIES.

ALTERNATE #2 - WATER HEATER, EXTERIOR LIGHTING, INTERIOR LIGHTING, TOILET PARTITIONS, & EPOXY COATING:

1. CONTRACTOR TO:  
a. CONTRACTOR TO PROVIDE AND INSTALL WATER HEATER WITH WALL KITS AS SHOWN AND NOTED ON THIS SHEET.  
b. CONTRACTOR TO PROVIDE AND INSTALL ALL EXTERIOR AND INTERIOR LIGHTING FIXTURES AS SHOWN AND NOTED ON SHEET E-101.  
c. CONTRACTOR TO PROVIDE AND INSTALL HDPE TOILET COMPARTMENT DOOR/PILASTER ASSEMBLIES (INCLUDING HARDWARE) AS SHOWN ON SHEETS A-101 AND A-301.  
d. CONTRACTOR TO PROVIDE AND INSTALL EPOXY WALL COATING PNT-01, AS SHOWN THE INTERIOR FINISH LEGEND ON SHEET A-601.  
2. BASE BID:  
a. PROVIDE ALL PLUMBING AND ELECTRICAL ROUGH-IN FOR FUTURE WATER HEATER AND WALL KIT TO BE INSTALLED BY OWNER. PROVIDE BLANK PLATE AT JUNCTION BOX; TEMPORARILY CAP PLUMBING PIPES.  
b. PROVIDE ALL ELECTRICAL ROUGH-IN FOR FUTURE EXTERIOR AND INTERIOR LIGHTING FIXTURES TO BE INSTALLED BY OWNER. PROVIDE BLANK PLATES AT JUNCTION BOXES.  
c. DO NOT PROVIDE HDPE TOILET PARTITIONS.  
d. CMU TO REMAIN EXPOSED; WALLS WILL BE FINISHED AND PAINTED BY OWNER.

LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
S1	FAIL-SAFE	HVSL8-4LD42SD-40-UNV-C-EDC1	VANDAL RESISTANT STRIP	SURFACE	3495	4000	80	UNV	34	
WP	LUMARK	XTOR2B-W	FULL CUTOFF WALL PACK	SURFACE	1400	4000	70	UNV	18	
NOTES: 1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION										

PANEL 'P1' SCHEDULE									
VOLTAGE			PANEL SIZE		MOUNTING		AIC RATING		
120/208V			100A MCB		SURFACE		22,000	PHASE "A" LOAD	18.5
NEMA RATING: 3R								PHASE "B" LOAD	11
CIRCUIT NUMBER	DESCRIPTION		BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	WOMEN'S RESTROOM RECEPITS		20-1	3	A	3	20-1	MEN'S RESTROOM RECEPITS	2
3	MECH & EXTERIOR RECEPITS		20-1	3	B	8	20-1	LIGHTS AND EXHAUST FAN	4
5	SPARE		20-1		A	12.5	20-1	WATER HEATER	6
7	SPARE		20-1		B				8
9	SPARE		20-1		A				10
11	SPARE		20-1		B				12
13	SPARE		20-1		A				14
15	SPARE		20-1		B				16
NOTES:									
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"									
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.									
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.									





PLUMBING PLANS SYMBOL LEGEND

- SANITARY SEWER PIPING
- VENT PIPING
- COLD WATER PIPING
- HOT WATER PIPING
- PIPING TURNED DOWN / TURNED UP
- ✕ TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

- PLUMBING SYSTEM TO BE INSTALLED FOR WINTERIZATION. CONTRACTOR SHALL INSTALL LOW POINT DRAINS ON BOTH COLD & HOT WATER PIPING.
- DOMESTIC WATER LINES SHALL BE HELD TIGHT TO WALLS & AT 8'-0" A.F.F. TO ALLOW ACCESS IN CHASE.

ALTERNATE #1 - CONTRACTOR-INSTALLED PLUMBING FIXTURES & TOILET ACCESSORIES:

- CONTRACTOR TO:
  - PROVIDED & INSTALL PLUMBING FIXTURES TO INCLUDE WATER CLOSETS & FLUSH VALVES, URINALS & FLUSH VALVES, LAVATORIES & FAUCETS.
  - CONTRACTOR PROVIDED & INSTALLED TOILET ACCESSORIES AS NOTED IN THE "RESTROOM ACCESSORY SCHEDULE INCLUDED ON SHEETS A-101 & A-301."
- BASE BID:
  - CONTRACTOR TO INCLUDE ROUGH-IN & WALL-HUNG BRACKETS FOR THE WATER CLOSETS, URINALS, & LAVATORIES. OWNER TO PROVIDE & INSTALL ALL TOILET ACCESSORIES.

ALTERNATE #2 - WATER HEATER, EXTERIOR LIGHTING, INTERIOR LIGHTING, TOILET PARTITIONS, & EPOXY COATING:

- CONTRACTOR TO:
  - CONTRACTOR TO PROVIDE AND INSTALL WATER HEATER WITH WALL KITS AS SHOWN AND NOTED ON THIS SHEET.
  - CONTRACTOR TO PROVIDE AND INSTALL ALL EXTERIOR AND INTERIOR LIGHTING FIXTURES AS SHOWN AND NOTED ON SHEET E-101.
  - CONTRACTOR TO PROVIDE AND INSTALL HDPE TOILET COMPARTMENT DOOR/PILASTER ASSEMBLIES (INCLUDING HARDWARE) AS SHOWN ON SHEETS A-101 AND A-301.
  - CONTRACTOR TO PROVIDE AND INSTALL EPOXY WALL COATING PNT-01, AS SHOWN THE INTERIOR FINISH LEGEND ON SHEET A-601.
- BASE BID:
  - PROVIDE ALL PLUMBING AND ELECTRICAL ROUGH-IN FOR FUTURE WATER HEATER AND WALL KIT TO BE INSTALLED BY OWNER. PROVIDE BLANK PLATE AT JUNCTION BOX; TEMPORARILY CAP PLUMBING PIPES.
  - PROVIDE ALL ELECTRICAL ROUGH-IN FOR FUTURE EXTERIOR AND INTERIOR LIGHTING FIXTURES TO BE INSTALLED BY OWNER. PROVIDE BLANK PLATES AT JUNCTION BOXES.
  - DO NOT PROVIDE HDPE TOILET PARTITIONS.
  - CMU TO REMAIN EXPOSED; WALLS WILL BE FINISHED AND PAINTED BY OWNER.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
FCO	FLOOR CLEANOUT	ZURN	1400	
FD	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL
LAV	LAVATORY (WALL HUNG W/MANUAL FAUCET)	AMERICAN STANDARD	0355.012	WITH ZURN Z81104-XL FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, AND TRUBRO LAV GUARD 2, AND TMV
TMV	THERMOSTATIC MIXING VALVE - POINT OF USE	WATTS	1FUSG	
UR	URINAL - MANUAL FLUSH	AMERICAN STANDARD	6550.001	WITH ZURN Z6003A-V-W S1 MANUAL FLUSH VALVE (1.0 GPM/FLUSH)
WC1	WATER CLOSET - ADA HEIGHT WALL HUNG WITH MANUAL FLUSH VALVE	AMERICAN STANDARD	2859	WITH ZURN Z6000A-V-W S1 MANUAL FLUSH VALVE (1.6 GPM/FLUSH) AND CHURCH 9500SSCT SELF SUSTAINING SEAT
WC2	WATER CLOSET - STANDARD HEIGHT WALL HUNG WITH MANUAL FLUSH VALVE	AMERICAN STANDARD	2859	WITH ZURN Z6000A-V-W S1 MANUAL FLUSH VALVE (1.6 GPM/FLUSH) AND CHURCH 9500SSCT SELF SUSTAINING SEAT
WH	WATER HEATER	RUUD	ISGP20	20 GALLON, 120V, 1500W, WITH HOLDRITE #30-SWHP-WM WALL MOUNT KIT. PROVIDE WITH CORD & PLUG
HB	HOSE BIBB	WOODFORD	MODEL 14	"P" INLET - 10" WALL

NOTES:

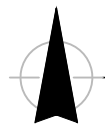
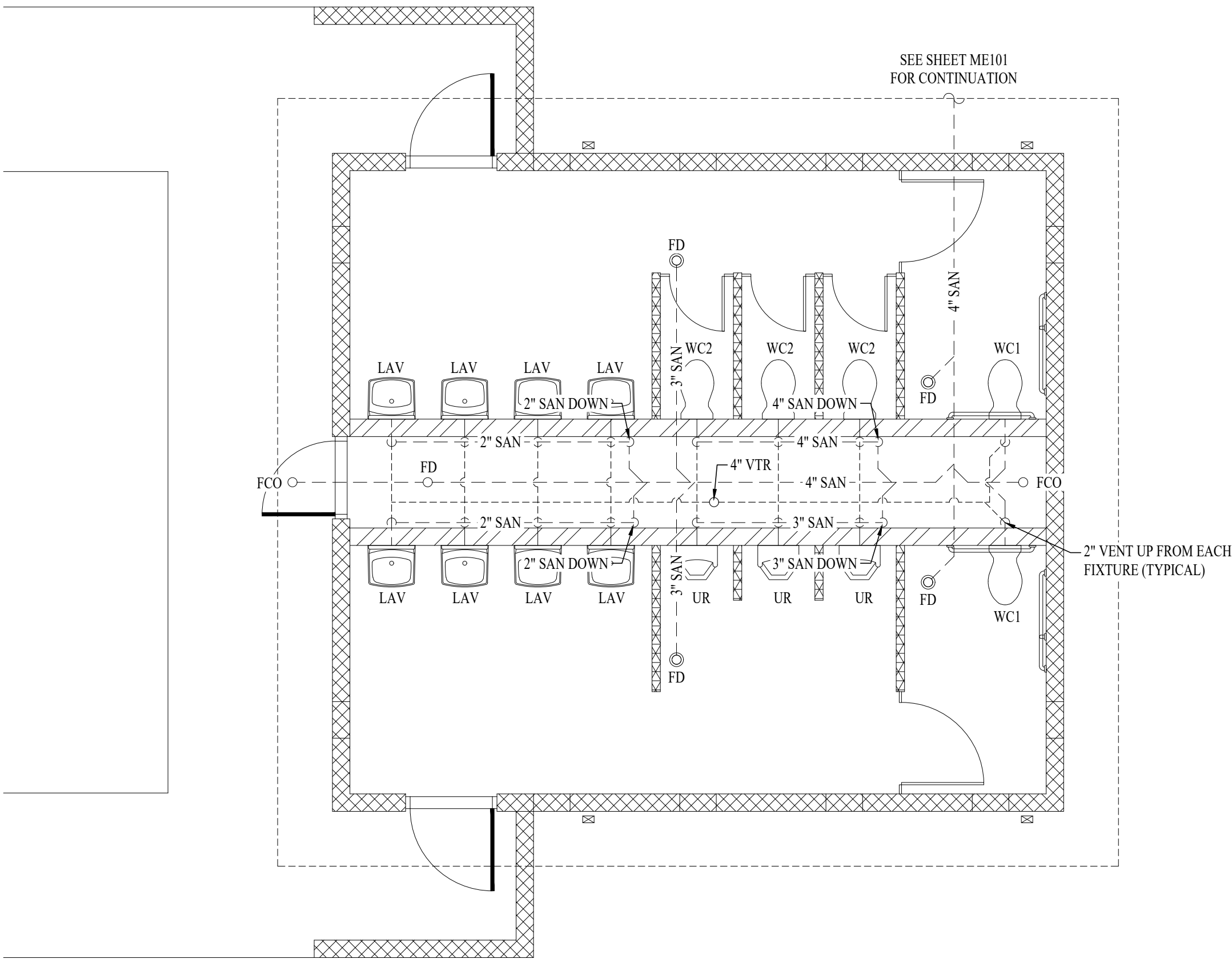
- VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION

PLUMBING CONNECTION SIZING SCHEDULE

FIXTURE		SANITARY PIPING		SUPPLY PIPING	
TYPE	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	-	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	-	-	1/2"	-
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-

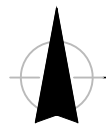
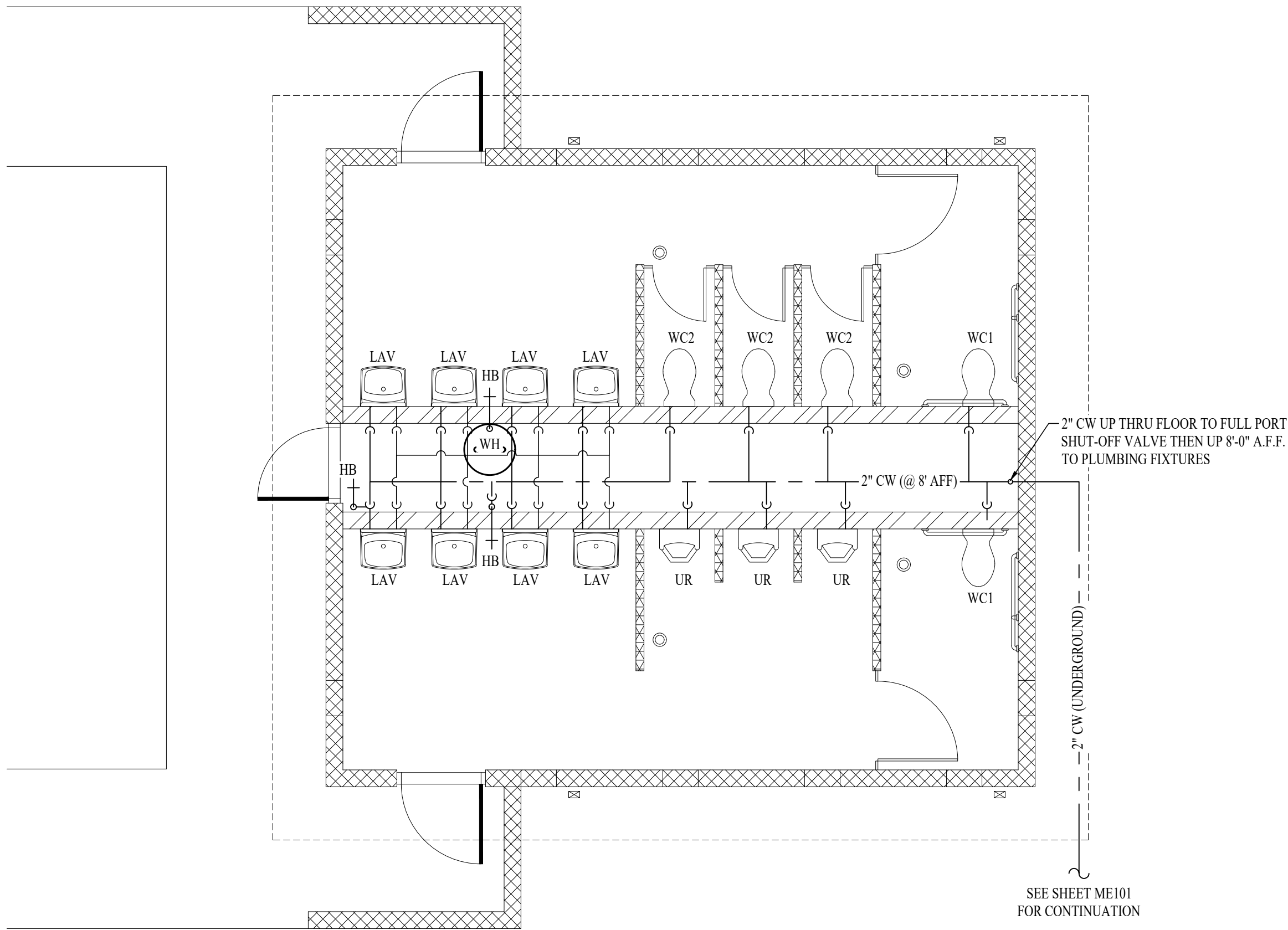
NOTES:

- SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS



SANITARY SEWER PLAN

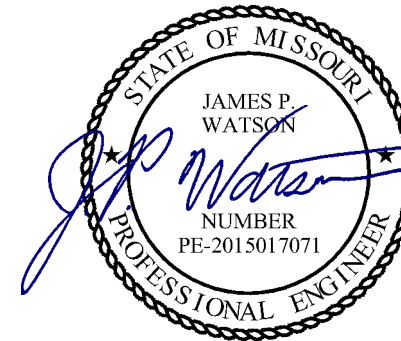
SCALE: 1/4" = 1'-0"



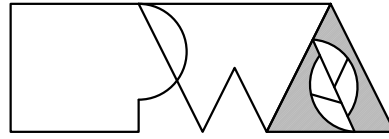
WATER PIPING PLAN

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

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR

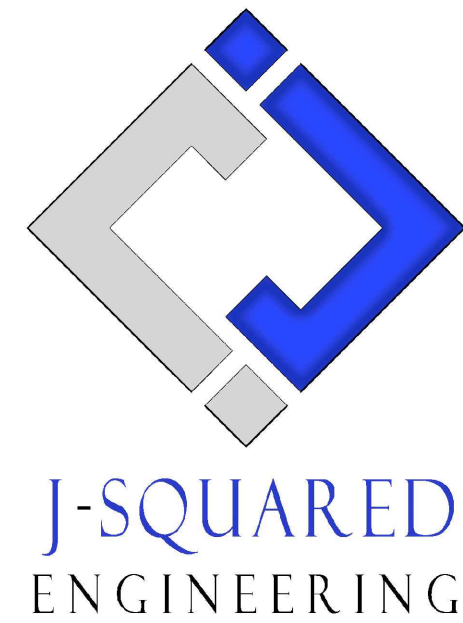


James Watson, P.E. August 10th, 2022  
PE-2015017071  
MO Certificate of Authority # 2018029680



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NEW COMFORT  
STATION

MISSOURI STATE  
FAIRGROUNDS (MSF)  
2503 W. 16th St.  
SEDALIA, MO

PROJECT # F2206-01  
SITE # 1501  
ASSET # 35111501147

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 08/10/2022

CAD DWG FILE: J20736  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

SHEET TITLE:

PLUMBING  
PLANS

SHEET NUMBER:

P-101

20 OF 20 SHEETS  
08/10/2022