

CAMPGROUND SHOWER HOUSE REPLACEMENTS

MONTAUK STATE PARK

Salem, Missouri

LOOP 4 SHEET INDEX			
NUMBER	TITLE	NUMBER	TITLE
G-001	COVER SHEET	A-102	ROOF PLAN
G-101	LOCATION MAP	A-201	EXTERIOR ELEVATIONS
G-102	GENERAL AND STRUCTURAL NOTES	A-301	BUILDING SECTIONS
G-103	CODE PLAN	A-401	ENLARGED FLOOR PLANS & INT ELEVATIONS
G-104	ACCESSIBILITY STANDARDS	A-402	INTERIOR ELEVATIONS
G-105	ACCESSIBILITY STANDARDS	A-501	WALL DETAILS
C-101	DEMOLITION PLAN LOOP #4	A-701	REFLECTED CEILING + FINISH PLAN
C-102	SITE PLAN LOOP #4	P-001	GENERAL PLUMBING AND MECHANICAL INFORMATION
C-103	GRADING PLAN LOOP #4	P-101	PLUMBING PLANS
C-104	EROSION CONTROL PLAN	P-501	PLUMBING DETAILS
C-105	CIVIL DETAILS	P-601	PLUMBING SCHEDULE
S-101	FOUNDATION PLAN	M-101	HVAC PLANS
S-102	CONCRETE SLAB AND JOINT PLAN	M-601	MECHANICAL SCHEDULES AND DETAILS
S-103	FRAMING PLAN	E-001	GENERAL ELECTRICAL INFORMATION
S-104	TRUSS FRAMING PLAN	E-002	ELECTRICAL SITE PLAN - MONTAUK LOOP 4
S-105	STRUCTURAL DETAILS	E-101	LIGHTING PLAN
S-106	STRUCTURAL DETAILS	E-201	POWER PLAN
A-101	FLOOR PLAN	E-701	ELECTRICAL SCHEDULES



LOOP 1 SHEET INDEX (Alternate 1)			
NUMBER	TITLE	NUMBER	TITLE
G-101.A	LOCATION MAP	A-201.A	EXTERIOR ELEVATIONS
G-102.A	GENERAL AND STRUCTURAL NOTES	A-301.A	BUILDING SECTIONS
G-103.A	CODE PLAN	A-401.A	ENLARGED FLOOR PLANS & INT ELEVATIONS
G-104.A	ACCESSIBILITY STANDARDS	A-402.A	INTERIOR ELEVATIONS
G-105.A	ACCESSIBILITY STANDARDS	A-501.A	WALL DETAILS
C-101.A	DEMOLITION PLAN LOOP #1	A-701.A	REFLECTED CEILING + FINISH PLAN
C-102.A	SITE PLAN LOOP #1	P-001.A	GENERAL PLUMBING AND MECHANICAL INFORMATION
C-103.A	GRADING PLAN LOOP #1	P-101.A	PLUMBING PLANS
C-104.A	EROSION CONTROL PLAN LOOP #1	P-501.A	PLUMBING DETAILS
C-105.A	CIVIL DETAILS	P-601.A	PLUMBING SCHEDULE
S-101.A	FOUNDATION PLAN LOOP #1	M-101.A	HVAC PLANS
S-102.A	CONCRETE SLAB AND JOINT PLAN LOOP #1	M-601.A	MECHANICAL SCHEDULES AND DETAILS
S-103.A	FRAMING PLAN LOOP #1	E-001.A	GENERAL ELECTRICAL INFORMATION
S-104.A	TRUSS FRAMING PLAN LOOP #1	E-002.A	ELECTRICAL SITE PLAN - MONTAUK LOOP 1
S-105.A	STRUCTURAL DETAILS LOOP #1	E-101.A	LIGHTING PLAN
S-106.A	STRUCTURAL DETAILS	E-201.A	POWER PLAN
A-101.A	FLOOR PLAN	E-701.A	ELECTRICAL SCHEDULES
A-102.A	ROOF PLAN		

OWNER:

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
NATURAL RESOURCES , STATE PARKS

PROJECT
MANAGEMENT:

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER:

OLSSON
550 E. St. Louis Street
Springfield, MO 65806

PROJECT NUMBER:

X2530-01

SITE NUMBER:
ASSET NUMBERS:

5307
7815307019
7815307024

SHEET NUMBER:

G-001

1 OF 71 SHEETS
10/24/2025

ABBREVIATIONS

AE	AIR ENTRAINING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APP	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
B/	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
C	COMPRESSION
CA	CAISSON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE(D)(OUS)
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION(S)
DL	DEAD LOAD
DP	DRILLED PIER
DWG	DRAWING
EA	EACH
ECC	ECCENTRICITY
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EOR	ENGINEER OF RECORD
EO	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EWEF	EACH WAY EACH FACE
FF	FINISHED FLOOR
FFE	EXISTING FINISHED FLOOR
FND	FOUNDATION
FT	FEET (FOOT)
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GL	GLUE LAMINATE TIMBER
HORZ	HORIZONTAL
HS	HEADED STUD
ID	INSIDE DIAMETER
K	KIP (1000 POUNDS)
KLF	KIPS PER LINEAR FOOT
LB, #	POUNDS
LFRS	LATERAL FORCE RESISTING SYSTEM
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG-LEG HORIZONTAL
LLV	LONG-LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NO, #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
PEMB	PRE-ENGINEERED METAL BUILDING
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUND PER SQUARE FOOT
PSI	POUND PER SQUARE INCH
PT	POST TENSION(ED)
QTY	QUANTITY
R	RADIUS
REINF	REINFORCE(D)
REV	REVISED/REVISION
RH	RIGHT HAND
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SF	SQUARE FOOT
SIM	SIMILAR
SLRS	SEISMIC LOAD RESISTING SYSTEM
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
T	TENSION
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROVE
TI	TOP OF
TBD	TO BE DETERMINED
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	SHEAR
VERT	VERTICAL
VIF	VERIFY IN FIELD
WI	WITH
W/O	WITHOUT
WG	WORKABLE GAGE
WP	WORKING POINT
WWR	WELDED WIRE REINFORCEMENT

GENERAL NOTES

- THE STRUCTURAL DRAWINGS ARE TO BE COORDINATED AND USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, PROCESS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL AND PROCESS DRAWINGS AND IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
- OLSSON SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CHARGE OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- OLSSON SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OVER, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. ALL SHORING AND BRACING MEMBERS AND CONNECTIONS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOADS. TEMPORARY MEMBERS AND CONNECTIONS SHALL NOT BE REMOVED UNTIL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.
- THE CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS, ELEVATIONS, AND MEMBER SIZES AS SHOWN ON THE CONTRACT DRAWINGS FOR THE EXISTING CONSTRUCTION PRIOR TO THE DETAILING OR FABRICATION OF ANY NEW STRUCTURAL ELEMENT. THE CONTRACTOR SHALL DOCUMENT ANY CONSTRUCTION-RELATED DISCREPANCIES. PRIOR TO THE SCHEDULED START OF ANY DETAILING OR FABRICATION, THE CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND/OR SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO, REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
- NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE STRUCTURAL ENGINEER.
- PROVIDE SLEEVE LAYOUTS FOR ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS FOR ALL TRADES. LAYOUTS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL ROOF MOUNTED EQUIPMENT OR EQUIPMENT SUSPENDED FROM FLOORS OR THE ROOF SHALL BE SUPPORTED BY BEAMS DESIGNATED FOR SUCH PURPOSE ONLY. IF NO SUPPORT HAS BEEN DESIGNATED, OR IF A QUESTION ARISES, NOTIFY STRUCTURAL ENGINEER PRIOR TO ERECTION OF EQUIPMENT.
- ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED. SEE THE ARCHITECTURAL DRAWINGS FOR DETAILS AND DIMENSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
- MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE CAPACITY OF THE CONSTRUCTION.
- THE SPECS AND REQUIREMENTS INDICATED ON THIS SHEET ARE INTENDED AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTION, AND INSPECTION REQUIREMENTS FOR THE PROJECT. ADDITIONAL, MORE STRINGENT REQUIREMENTS MAY BE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE REQUIREMENTS INDICATED ON THIS SHEET AND THOSE IN THE PROJECT SPECS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURBS, OPENINGS, AND DEPRESSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.
- EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS, AND INSERTS, SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
- THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS.
- THE STEEL FRAMING COMPONENTS SHOWN RELY ON BUILDING COMPONENTS OTHER THAN STRUCTURAL STEEL FOR FINAL STRUCTURAL STABILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ANY AND ALL TEMPORARY BRACING AND SHORING AGAINST WIND. ERECTION AND ALL CONSTRUCTION LOADS UNTIL ALL ELEMENTS, MEMBERS, AND CONNECTIONS (FLOORS, ROOF, SHEAR WALLS, ETC), AS SHOWN ON THE CONTRACT DOCUMENTS ARE COMPLETELY INSTALLED. THE STRUCTURAL MEMBERS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNED FOR THE ANTICIPATED LOADS THAT THE STRUCTURE WILL BE SUBJECTED TO ONLY AFTER ALL STRUCTURAL ELEMENTS ARE IN PLACE AND FINAL CONNECTIONS ARE COMPLETE.
- THE ENGINEER HAS ASSUMED THAT THE EXISTING CONSTRUCTION WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD PRACTICES. THE CONTRACTOR SHALL TAKE EXTRAORDINARY PRECAUTIONS CONCERNING PRESERVATION OF THE BUILDING DURING DEMOLITION AND NEW CONSTRUCTION WORK. FURTHERMORE, THEY SHALL AGREE TO ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THIS PROPERTY.
- VEHICLES IN EXCESS OF LEGAL OR POSTED LOADS WILL NEED TO APPLY TO STATE PARKS FOR PERMISSION TO CROSS PARK-OWNED STRUCTURES. WHERE NECESSARY ON PUBLIC ROADS, PERMITS SHOULD BE APPLIED TO MODOT ACCORDING TO STATE REGULATIONS. THE CAMPGROUND BRIDGE OVER THE CURRENT RIVER (BRIDGE ID 25309) IS CURRENTLY POSTED AT 15 TONS AND IS OWNED BY THE STATE PARK. THE PARK HAS AN INSPECTION AND LOAD RATING COMPLETED WITH AN ASSUMED OVERSIZED LOAD FOR THE PRECAST SHOWER STRUCTURE, WHICH WEIGHED 63 TONS AND WAS 53 FEET LONG. THE FINDING WAS THAT THIS ASSUMED THE VEHICLE DID NOT VIOLATE THE OPERATING RATING, SO THE INDIVIDUAL PERMIT PASSAGE WOULD BE ALLOWED UNDER STRICTLY CONTROLLED CONDITIONS. STATE PARKS ENGINEER WILL REVIEW THE CONTRACTOR'S PROPOSED VEHICLES, RE-RUN THE RATING WITH THE ACTUAL CONTRACTOR'S VEHICLES, AND FACILITATE A PERMIT AND/OR CONVEY LIMITATIONS AS A PRECONSTRUCTION WORK ITEM. CONTRACTORS SHOULD ASSUME TIME FOR THIS COORDINATION EFFORT AND THAT VEHICLES IN EXCESS OF LEGAL OR POSTED LOADS MAY NEED TO UTILIZE FLAGGERS TO RESTRICT THE BRIDGE TO A SINGLE LANE OR STRICTLY OBSERVE LIMITATIONS ON SPEED, AND THIS WORK SHOULD BE FACTORED IN TO THE BIDS. INFORMATION FOR MODOT ON-SYSTEM PERMITS CAN BE FOUND HERE: <https://www.modot.org/OSOW>.

STRUCTURAL GENERAL CONSTRUCTION:

- ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE.
- THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOADS IMPOSED ON THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE LESSER OF THE ALLOWABLE CONSTRUCTION LIVE LOAD AS INDICATED ON THE CONTRACT DRAWINGS, OR THE CAPACITY OF THE FRAMING.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. AS A RESULT OF THE CONSTRUCTION MEANS, METHODS, AND/OR SEQUENCES CHOSEN BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY DURING CONSTRUCTION.
- DO NOT SCALE DRAWINGS. USE DIMENSIONS.
- THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BASED UPON THE REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR SPECIFICALLY INFORMED THE ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATION.

EARTHWORK

- ISTOPI CALL BEFORE YOU DIG! THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "811" AND COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. NOTIFY THE STRUCTURAL ENGINEER WHENEVER CONFLICTS ARE ENCOUNTERED.
- SHALLOW FOUNDATIONS: CONTINUOUS WALL FOOTINGS, ISOLATED SPREAD FOOTINGS, AND GROUND SUPPORTED MAT FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON FIRM NATIVE SOILS OR COMPACTED ENGINEERED FILL.
- GENERAL CONTRACTOR SHALL COMPACT EXPOSED FOOTING BOTTOMS AND EXPOSED AGGREGATE PIER SURFACES WITH HAND-OPERATED, MECHANICAL, COMPACTION EQUIPMENT AFTER EACH FOOTING EXCAVATIONS IS COMPLETED AND PRIOR TO PLACING STEEL OR CONCRETE.
- REFER TO THE GEOTECHNICAL REPORT IN THE SPECIFICATIONS FOR THE FOLLOWING LATERAL EARTH PRESSURES:
 - ACTIVE DRAINED EARTH PRESSURES
 - UNDRAINED ACTIVE EARTH PRESSURES
 - AT-REST DRAINED EARTH PRESSURES
 - AT-REST UNDRAINED EARTH PRESSURES
 - PASSIVE EARTH PRESSURE
- ALL UNSUITABLE SOILS SHALL BE REMOVED WITHIN THE EXCAVATION AREA OF THE FOUNDATIONS. ALL FOOTINGS SHALL BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL.
- FOUNDATIONS EXPOSED TO FROST SHALL BE PLACED SUCH THAT THE BOTTOM OF FOUNDATION IS AT LEAST 24"BELOW THE ADJACENT FINISHED GRADE.
- SHOULD UNSUITABLE BEARING CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY THE OWNER, ARCHITECT, AND STRUCTURAL ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.
- THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION AND RE-APPROVAL OF THE SUBGRADE.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
- RECORDS OF ANY EXISTING SUBGRADE INTERFERENCES, OTHER THAN THOSE INTERFERENCES SHOWN OR INDICATED ON THE CIVIL CONSTRUCTION DOCUMENTS, ARE NOT CURRENTLY AVAILABLE. DURING EXCAVATION WORK, INTERFERENCES MAY BE DISCOVERED. CONTRACTOR SHALL DOCUMENT CONSTRUCTION-RELATED DIMENSIONS OF ALL INTERFERENCES. CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS AND THE SUBSURFACE SOILS EXPLORATION REPORT AND ESTABLISH SPECIFIC "CONSTRUCTION PROCEDURES AND SEQUENCES" FOR THE EXCAVATION, COMPACTION, FILL, AND INSTALLATION OF THE NEW BUILDING FOUNDATION. SUBMIT THESE FOR REVIEW TO THE OWNER'S SOIL TESTING LABORATORY, OWNER'S REPRESENTATIVE, AND STRUCTURAL ENGINEER.
- DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE PERMANENT BELOW-GRADE LATERAL BRACING SYSTEM IS IN PLACE AND THE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
- ALL SLABS-ON-GRADE SHALL BE PLACED OVER A LOW PERMEANCE VAPOR BARRIER, 15 MIL MINIMUM THICKNESS, OVER A BASE/SUBBASE. EXISTING SUBBASE WILL BE COMPACTED IN PLACE OR WILL BE CUT OUT AND REPLACED WITH AN ENGINEERED FILL.
- FLOWABLE FILL FOR USE AS FOUNDATION SUPPORT IS DEFINED AS CONTROLLED LOW STRENGTH MATERIAL (CLSM)
 - FLOWABLE FILL IN NOT INTENDED TO BE EXCAVATABLE IN THE FUTURE.
 - PROVIDE CONCRETE CONTRACTOR'S STANDARD MIX FOR FLOWABLE FILL THAT MEETS THE FOLLOWING REQUIREMENTS:
 - CONFORM TO THE RECOMMENDATIONS OF ACI 229R-99.
 - 28 DAY MINIMUM COMPRESSIVE STRENGTHS OF 100PSI.
 - MIXTURE SHALL FLOW INTO PLACE AND CONSOLIDATE DUE TO ITS FLUIDITY WITHOUT VIBRATION OR PUDDLING ACTION.
 - LIMIT SUBSIDENCE OF FLOWABLE FILL TO 1/8" PER FOOT OF DEPTH
 - CURING PROCEDURES ARE NOT REQUIRED, BUT PROTECT FROM FREEZING UNTIL MIX HAS HARDENED.

REINFORCED MASONRY

- PLACING CONCRETE MASONRY UNITS:
 - USE RUNNING BOND. FULLY BOND CORNERS BY OVERLAPPING OF UNITS.
 - PLACE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT EVERY SECOND BED JOINT. PLACE REINFORCEMENT AT FIRST AND SECOND JOINTS ABOVE AND BELOW OPENINGS. LAP SPLICES 6" MINIMUM. PROVIDE PREFABRICATED 'T' AND 'L' SECTIONS AT INTERSECTIONS AND CORNERS.
 - MAINTAIN FLUSH FACE ON EXPOSED MASONRY SURFACES.
 - FACE SHELLS: FULLY MORTARED.
 - WEBS: FULLY MORTARED IN PIERS, PILASTERS, STARTING COURSE AT FOUNDATION OR FLOOR LEVEL AND WHERE ADJACENT CELLS OR CAVITIES ARE TO BE GROUTED.
 - HEAD SHELLS: MORTARED FROM EACH FACE EQUAL TO THE FACE SHELL THICKNESS.
 - KEEP VERTICAL CELLS THAT ARE TO BE GROUTED ALIGNED AND FREE FROM OBSTRUCTIONS AND MORTAR FINIS.
 - DO NOT LAY DAMAGED UNITS.
 - PERFORM JOB SITE CUTTING WITH PROPER TOOLS TO PROVIDE STRAIGHT AND TRUE UNCHIPPED EDGES.
 - TOOL JOINTS WHEN MORTAR IS THUMB PRINT HARD TO FORM CONCAVE JOINTS.
 - COVER TOP OF UNFINISHED MASONRY WORK.
- GROUTING:
 - VERIFY REINFORCEMENT IS PROPERLY PLACED AND SECURED IN POSITION PRIOR TO GROUTING.
 - ALL BOND BEAMS SHALL BE GROUTED SOLID.
 - FULLY GROUT CELLS AT EACH SIDE OF OPENINGS AND CONTROL JOINTS WITH (1) #5 BAR PLACED IN CENTER OF CELL, UNLESS OTHERWISE SHOWN ON DRAWINGS.
 - PLACE GROUT IN LIFTS NOT EXCEEDING 8'-0". CONSOLIDATE AT TIME OF PLACEMENT BY RODDING OR VIBRATING FOLLOWED BY RECONSOLIDATION LATER BEFORE PLASTICITY IS LOST.
 - IF TOTAL HEIGHT OF GROUT PLACEMENT IS TO EXCEED 8'-0", PLACE GROUT IN 4'-0" LIFTS. IF GROUTING IS STOPPED FOR MORE THAN ONE HOUR BETWEEN LIFTS, FORM A HORIZONTAL CONSTRUCTION JOINT BY STOPPING THE POUR 4" BELOW THE TOP OF THE CONCRETE MASONRY UNIT.
- HOT AND COLD WEATHER CONDITIONS:
 - COLD WEATHER: CONFORM TO THE REQUIREMENTS OF ACI/ASCE 530 WHEN THE AMBIENT TEMPERATURE FALLS BELOW 40°F
 - HOT WEATHER: WHEN AIR TEMPERATURE EXCEEDS 90°F DO NOT SPREAD MORTAR BED MORE THAN 4'-0" AHEAD OF MASONRY. SET MASONRY UNITS WITHIN ONE MINUTE OF SPREADING MORTAR.
- SEALANTS:
 - INTERIOR JOINTS: ONE COMPONENT POLYURETHANE APPLIED OVER BACKER ROD.
 - EXTERIOR JOINTS: MULTICOMPONENT POLYURETHANE OR TWO COMPONENT POLYSULFIDE SEALANT APPLIED OVER BACKER ROD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - FIRE-STOP SEALANT: FYRE-SIL MFG BY TREMCO.
 - BACKER ROD: ROUND CLOSED CELL POLYETHYLENE.
 - MINERAL WOOL: 6 LBS PER CUBIC FOOT DENSITY COMPRESSED INTO PLACE. DO NOT USE FIBERGLASS BATTS.
- CONSTRUCTION PRECAUTIONS:
 - ADEQUATELY BRACE ALL WALLS DURING CONSTRUCTION.
 - IF INTERIOR WALLS ARE CONSTRUCTED PRIOR TO ENCLOSURE OF STRUCTURE, PROVIDE ADEQUATE TEMPORARY BRACING. REMOVE BRACING AFTER STRUCTURE IS ENCLOSED.
- DO NOT EMBED ALUMINUM CONDUIT, PIPE OR ACCESSORIES IN MASONRY.

SHOP DRAWINGS

- ALL SHOP DRAWING SUBMITTALS SHALL BE AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR IN THESE NOTES.
- SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER.
- THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE GENERAL CONTRACTOR SHALL APPROVE AND SO STAMP EACH SUBMISSION.
- SHOP SUBMITTALS SHALL BE SUBMITTED IN A DIGITAL FORMAT. MULTIPLE COPIES OF DRAWINGS WILL NOT BE MARKED-UP WITH REVIEW COMMENTS.
- THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS BACKGROUNDS FOR THE PRODUCTION OF ANY SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW.
- ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE "FOR CONSTRUCTION" DESIGN DOCUMENTS OF THE PROJECT SHALL BE BOLDLY NOTED AND BUBBLED ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL TO BRING TO THE EOR'S ATTENTION.
- ALL CHANGES TO RESUBMITTED SHOP DRAWINGS SHALL BE BUBBLED.

WOOD:

- WOOD CONSTRUCTION, BOTH LOAD BEARING AND NON LOAD BEARING, THAT WILL BE IN PERMANENT CONTACT WITH CONCRETE OR MASONRY, SHALL BE PRESERVATIVE-TREATED WOOD CONFORMING TO THE REQUIREMENTS OF THE APPLICABLE AWWA STANDARD U1 AND M4 FOR THE SPECIES, PRODUCT, PRESERVATIVE, AND END USE.
- WHERE PRESERVATIVE-TREATED WOOD IS USED IN ENCLOSED LOCATIONS WHERE DRYING IN SERVICE CANNOT READILY OCCUR, SUCH WOOD SHALL BE AT A MOISTURE CONTENT OF 19 PERCENT OR LESS BEFORE BEING COVERED WITH INSULATION, INTERIOR WALL FINISH, FLOORING COVERING OR OTHER MATERIALS.
- LAMINATED VENEER LUMBER (LVL) SHALL CONFORM TO ASTM D5456 FOR STRUCTURAL COMPOSITE LUMBER.
- CONSTRUCTION OR NO. 2 GRADE 2X LUMBER IS PERMITTED IN ALL LOAD BEARING, NON-LOAD BEARING, AND WOOD NAILER APPLICATIONS.

DESIGN CRITERIA:

BUILDING CODE	INTERNATIONAL BUILDING CODE, 2024 EDITION (IBC 2024)
DESIGN LOADS:	
RISK CATEGORY	= II
DEAD LOADS	
ROOF (GENERAL)	= 10 PSF
FLOOR (GENERAL)	= 75 PSF
LIVE LOADS	
ROOF (GENERAL)	= 20 PSF
FLOOR	
STAIRS	= 100 PSF
SLAB-ON-GRADE	= 125 PSF
SNOW LOADS	
GROUND SNOW LOAD, Pg	= 20 PSF
FLAT ROOF SNOW LOAD, Pf	= 14 PSF
SNOW EXPOSURE FACTOR, Ce	= 1.0
SNOW LOAD IMPORTANCE FACTOR, Is	= 1.0
THERMAL FACTOR, Ct	= 1.0
MINIMUM SNOW LOAD, Pm	= 20 PSF
WIND	
BASIC WIND SPEED (3 SECOND GUST)	= 115 PSF
WIND IMPORTANCE FACTOR	= 1.0
WIND EXPOSURE CATEGORY	= B
EARTHQUAKE DATA - STRUCTURAL	
RISK CATERORY	= II
SEISMIC IMPORTANCE FACTOR	= 1.0
SITE CLASS	= D
SPECTRAL RESPONSE COEFFICIENTS	Ss = 0.56 g; S ₀₁ = 21 g
DESIGN SPECTRAL RESPONSE COEFF'S	S ₀₅ = 0.42 g; S ₀₁ = 0.25 g
SEISMIC DESIGN CATEGORY	= C
DESIGN BASE SHEAR	Vu = 5 KIPS
SEISMIC RESPONSE COEFFICIENT	Cs = 0.048
RESPONSE MODIFICATION COEFFICIENT	R = 5.5
OVERSTRENGTH FACTOR	Ω _b = 2.5
DEFLECTION FACTOR	Cd = 1.75
NEW CONSTRUCTION	
SEISMIC FORCE-RESISTING SYSTEM	NEW CONSTRUCTION WILL BE DETAILED TO MEET SPECIAL REINFORCED MASONARY SHEAR WALLS EQUIVALENT LATERAL FORCE PROCEDURE
ANALYSIS PROCEDURE	

FOUNDATIONS:

- EXCAVATIONS NEAR FOOTINGS OR FOUNDATIONS, FOR ANY PURPOSE, SHALL NOT REMOVE LATERAL SUPPORT FROM ANY FOOTING OR FOUNDATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE FOOTING AND PROTECTING AGAINST SETTLEMENT OR LATERAL TRANSLATION.
- BACKFILL FOR FOUNDATIONS ELEMENTS SHALL BE MADE WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS, COBBLES, AND BOULDERS. IN LIEU OF SOIL, CONTROLLED LOW STRENGTH MATERIAL (CLSM) CAN BE USED IF A WRITTEN REQUEST IS SUBMITTED TO THE OWNER'S REPRESENTATIVE AND THAT REQUEST IS APPROVED BY THE ENGINEER AS WELL AS THE OWNER.
- BACKFILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 9 INCHES IN DEPTH. THE LIFTS SHALL BE COMPACTED WITH HAND-OPERATED TAMPERS OR OTHER PORTABLE COMPACTION EQUIPMENT. CARE SHALL BE TAKEN TO PREVENT ANY POSSIBLE DAMAGE TO WATERPROOFING OR DAMPPROOFING INSTALLATIONS AND TO AVOID OVERCOMPACTION WHICH CAUSES EXCESSIVE LATERAL EARTH PRESSURE AGAINST THE FOUNDATION ELEMENTS.
- FOOTINGS, FOUNDATIONS, AND/OR GRADE BEAMS SHALL BE PLACED ON A PREPARED SUBGRADE OR UNDISTURBED SOIL STRATA HAVING A MINIMUM NET ALLOWABLE BEARING PRESSURE OF 2000 PSF.

SLABS ON GRADE:

- CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED TO THE MINIMUM THICKNESS AND WITH THE REINFORCEMENT SHOWN ON THE FOUNDATION PLAN.
- THE MAXIMUM TOTAL REDUCTION OF CONCRETE SLAB ON GRADE THICKNESS FROM EMBEDDED CONDUITS, PIPES, ETC. SHALL BE 1 INCH.
- SUBGRADES AND SUBBASES SHALL BE GRADED WITHIN THE TOLERANCES SPECIFIED IN THE EARTHWORK OR EARTH MOVING SPECIFICATION.
- THE SOIL SUBGRADE SHALL BE PROOF ROLLED ONCE ROUGH GRADING IS COMPLETED. THE PROOF ROLLING SHALL BE OBSERVED AND EVALUATED BY THE ENGINEER AND SHOULD BE ACCOMPLISHED BY A LOADED TANDEM AXLE DUMP TRUCK, A LOAD TRUCK MIXER, ROLLER, OR EQUIVALENT HAVING A MINIMUM WEIGHT OF 15 TONS. MULTIPLE PASSES SHOULD BE MADE USING A PRE-ESTABLISHED GRID PATTERN. ANY DEFLECTIVE AREAS IDENTIFIED BY THE ENGINEER SHALL BE CORRECTED AND TESTED AGAIN.
- THE SOIL SUBGRADE SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 95 PERCENT BASED ON A STANDARD PROCTOR ACCORDING TO ASTM D698. THE SUBGRADE SHOULD BE COMPACTED PRIOR TO FOOTING AND FOUNDATION INSTALLATION IF THE COMPACTION OF THE SUBGRADE WILL IMPOSE EXCESSIVE LATERAL PRESSURE ON THE FOUNDATION ELEMENTS.
- A 5 INCH AGGREGATE DRAINAGE BASE COURSE SHALL BE PLACED BETWEEN THE SLAB ON GRADE AND THE PREPARED SUBGRADE. THE DRAINAGE BASE SHALL BE A NARROWLY GRADED MIXTURE OF WASHED CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL MEETING AN ASTM D448 COARSE AGGREGATE GRADING #7 WITH 100 PERCENT PASSING A 1½ INCH SIEVE AND 0 TO 5 PERCENT PASSING A NO. 8 SIEVE.
- A MINIMUM 6-mil THICK POLYETHYLENE VAPOR RETARDER SHALL BE PLACED BETWEEN THE DRAINAGE COURSE AND THE SLAB ON GRADE. THE JOINTS OF THE VAPOR BARRIER SHALL BE LAPPED A MINIMUM OF 6 INCHES. IF THE TOP SURFACE OF THE DRAINAGE COURSE IS RELATIVELY ROUGH AND PUNCTURING OF THE VAPOR RETARDER IS LIKELY, THEN IT SHALL BE TOPPED WITH A 1/2 INCH LAYER OF ASTM D448 NO. 10 FINE GRADED MATERIAL.

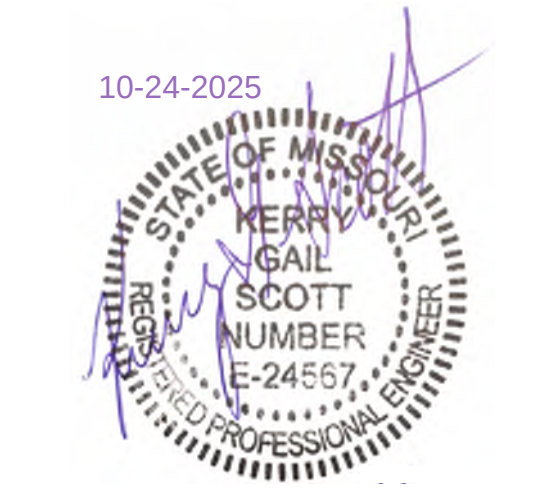
CONCRETE:

- MINIMUM CONCRETE COMPRESSIVE STRENGTH (fc) AT 28 DAYS SHALL BE:

FOOTINGS, FOUNDATIONS, AND GRADE BEAMS	4000 PSI
SLABS ON GRADE	4000 PSI
- THE MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE VERIFIED BY FIELD QUALITY CONTROL ACCORDING TO THE SPECIFICATIONS. SEE CAST-IN-PLACE CONCRETE SPECIFICATION.
- THE MINIMUM YIELD STRENGTH (fy) OF BOTH DEFORMED BAR REINFORCEMENT AND WELDED WIRE FABRIC SHALL BE 60,000 PSI.
- UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS, THE PROTECTION OF CONCRETE REINFORCEMENT SHALL ADHERE TO SECTION 7.7.1 OF ACI 318-05. THE FOLLOWING DOES NOT APPLY TO SLABS ON GRADE.

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
NO. 6 THROUGH NO. 18 BARS	2"
NO. 5 BAR, W31 OR D31 WIRE AND SMALLER	1.5"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:	
SLABS, WALLS, JOISTS	
NO. 14 AND NO. 18 BARS	1.5"
NO. 11 BAR AND SMALLER	0.75"
BEAMS AND COLUMNS	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS	1.5"
- UNLESS OTHERWISE SHOWN OR NOTED, SPLICING OF CONCRETE REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-05, SECTIONS 12.14, 12.15, AND 12.16. DEFORMED BARS AND WIRE IN TENSION SHALL USE A CLASS B SPLICE.
- ALL HORIZONTAL BARS IN WALLS, FOOTINGS, AND GRADE BEAMS SHALL BE BENT OR SPLICED AT CORNERS AND INTERSECTIONS IN SUCH A WAY THAT CONTINUITY IS PROVIDED THROUGH THE JOINT.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olson.com
TEL 417.890.8802
FAX 417.890.8805

olson®

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE:G-102.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

GENERAL AND
STRUCTURAL NOTES

SHEET NUMBER:

G-102

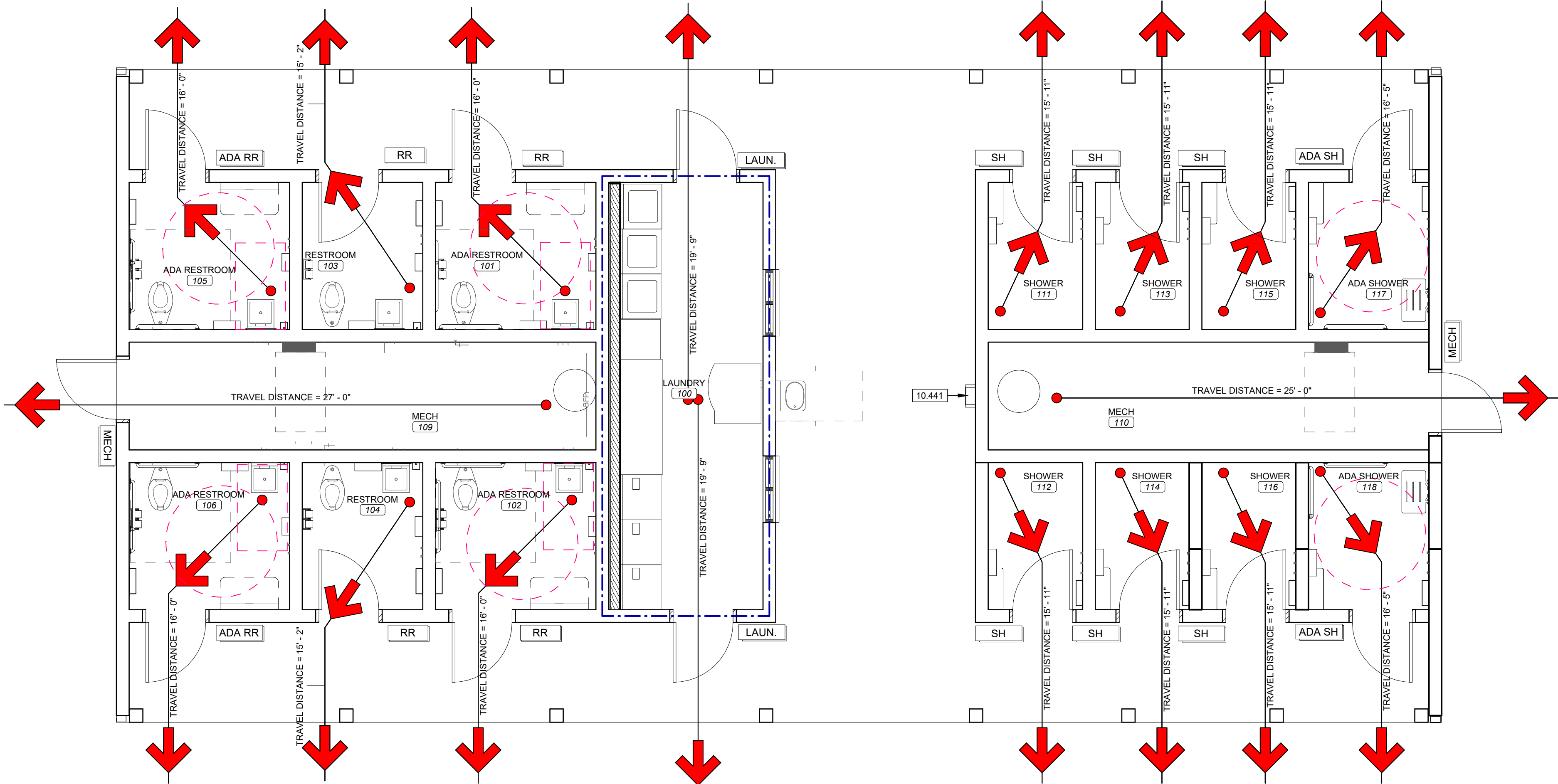
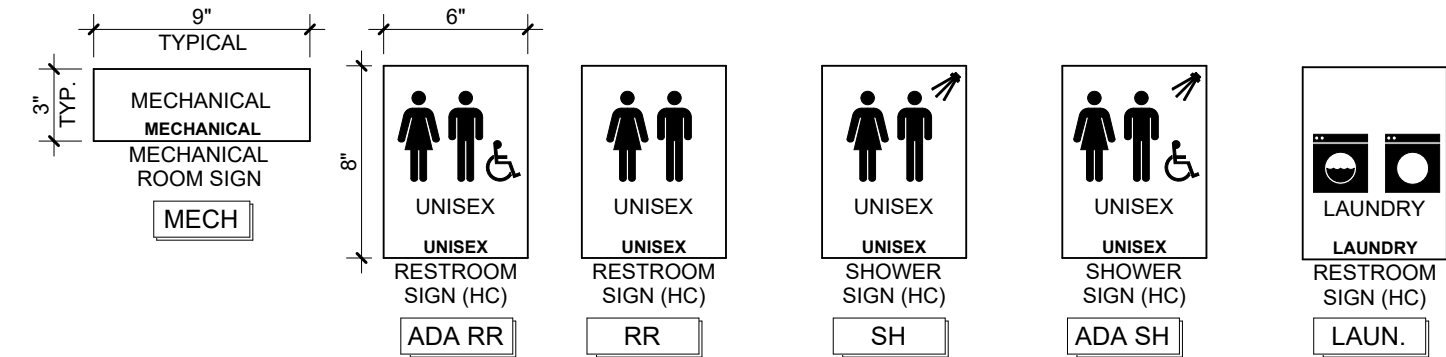
3 OF 71 SHEETS
10/24/2025

PANEL SIGNAGE LEGEND

1. PROVIDE THE FOLLOWING PANEL SIGNS AS INDICATED ON THE CODE PLANS.
2. INSTALL SIGNS (HEIGHTS AND LOCATIONS) AS DIRECTED BY OWNER'S REPRESENTATIVE. SIGNS TO BE PLACED 48" ABOVE FINISH FLOOR AT MINIMUM AND PLACED 60" ABOVE FINISH FLOOR AT MAXIMUM.
3. PROVIDE TACTILE EXIT SIGNAGE AT EACH EXIT DOOR COMPLIANT WITH THE APPLICABLE IBC VERSION, ANSI 117.1, AND AS IDENTIFIED UNDER OTHER APPLICABLE CODES.
4. COLOR OF PANEL SIGNAGE TO BE SELECTED BY ARCHITECT PRIOR TO FABRICATION FROM MANUFACTURER STANDARD LINE OF COLORS.
5. SIGNS SHALL BE ONE PIECE CONSTRUCTION WITH THE EXCEPTION OF APPLIED VINYL LETTERS AND CHARACTERS.
6. ALL SIGNAGE TO BE ADA AND ANSI COMPLIANT.
7. ALL SIGNAGE TO BE 1/8" THICK COLORED ACRYLIC WITH COLORED MATTE FINISH.
8. ALL SIGNAGE EDGES TO BE POLISHED.
9. CHARACTERS TO BE CUT VINYL APPLIED. COLOR OF CHARACTERS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER STANDARD LINE OF COLORS.
10. LETTERS TO BE 3/4" CUT VINYL APPLIED. LETTERS TO BE A FONT AND COLOR SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD LINE OF COLORS.
11. ALL ROOM DESIGNATIONS ARE TO BE PROVIDED BY OWNER.
12. PROVIDE RAISED BRAILLE CHARACTERS ON ALL PANEL SIGNS.
13. SEE SPECIFICATIONS FOR MORE INFORMATION.
14. SEE FINISH FLOOR PLANS FOR ANY ADDITIONAL NON-CODE RELATED SIGNAGE.

PANEL SIGNAGE TAGS

PROVIDE ONE (1) SIGN PER  COMPLYING WITH ADA LOCAL CODE. SIGN TO HAVE RAISED CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH ANSI AND ADA GUIDELINES. SIGN FINISHES TO BE SELECTED BY A.O.R.



OCCUPANT LOAD SCHEDULE

ROOM INFORMATION			IBC CHAPTER 10		OCCUPANT LOAD FACTOR	OCCUPANT COUNT
NO.	NAME	AREA	FUNCTION OF SPACE			
100	LAUNDRY	153 SF	INDUSTRIAL		100 SF	2
101	ADA RESTROOM	59 SF	LOCKER ROOMS		50 SF	2
102	ADA RESTROOM	59 SF	LOCKER ROOMS		50 SF	2
103	RESTROOM	44 SF	LOCKER ROOMS		50 SF	1
104	RESTROOM	44 SF	LOCKER ROOMS		50 SF	1
105	ADA RESTROOM	59 SF	LOCKER ROOMS		50 SF	2
106	ADA RESTROOM	59 SF	LOCKER ROOMS		50 SF	2
109	MECH	126 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM		300 SF	1
110	MECH	119 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM		300 SF	1
111	SHOWER	33 SF	LOCKER ROOMS		50 SF	1
112	SHOWER	33 SF	LOCKER ROOMS		50 SF	1
113	SHOWER	33 SF	LOCKER ROOMS		50 SF	1
114	SHOWER	33 SF	LOCKER ROOMS		50 SF	1
115	SHOWER	33 SF	LOCKER ROOMS		50 SF	1
116	SHOWER	33 SF	LOCKER ROOMS		50 SF	1
117	ADA SHOWER	43 SF	LOCKER ROOMS		50 SF	1
118	ADA SHOWER	43 SF	LOCKER ROOMS		50 SF	1
		1,010 SF				22

APPLICABLE CODES & STANDARDS

2018 ICC INTERNATIONAL CODE COUNCIL ALL REFERENCE STANDARDS
ICC INTERNATIONAL BUILDING CODE
ICC INTERNATIONAL PLUMBING CODE
ICC INTERNATIONAL MECHANICAL CODE
ICC INTERNATIONAL FIRE CODE
NATIONAL ELECTRIC CODE (NEC) 2017
2010 ADAAG AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
2009 ANSI A117.1 GUIDELINES FOR ACCESSIBLE & USABLE BUILDING & FACILITIES

GENERAL PROJECT INFORMATION

USER GROUP: GROUP B (303.1.2 SMALL ASSEMBLY SPACE)
CONSTRUCTION TYPE: V-B
AUTOMATIC SPRINKLER SYSTEM: NQ
GROSS BUILDING AREA: 1,280 SF

SPECIAL REQUIREMENTS (IBC CHAPTER 4)

SPECIAL REQUIREMENTS: NONE REQUIRED

GENERAL BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5)

MAXIMUM 40 FEET ABOVE GRADE PLANE ALLOWED. 17' - 10" PROVIDED.
MAXIMUM 2 STORIES ABOVE GRADE PLANE ALLOWED. 1 STORY PROVIDED.
MAXIMUM 8,000 SQUARE FEET ALLOWED. REFER TO BUILDING SQUARE FOOTAGE LISTED ABOVE.
INCIDENTAL USE AREAS: LAUNDRY ROOM

FIRE RESISTANCE RATINGS (IBC CHAPTER 6)

CONSTRUCTION TYPE: V-B

PRIMARY STRUCTURAL FRAME: 0 HOURS
BEARING WALLS (EXTERIOR AND INTERIOR): 0 HOURS
NON-BEARING WALLS AND PARTITIONS EXTERIOR: 0 HOURS
NON-BEARING WALLS AND PARTITIONS INTERIOR: 0 HOURS
FLOOR CONSTRUCTION: 0 HOURS
ROOF CONSTRUCTION: 0 HOURS

ALL COMPONENTS CANNOT BE LESS THAN THE FIRE RESISTANCE RATINGS REQUIRED BY OTHER SECTIONS OF CODE.

INTERIOR FINISHES (IBC CHAPTER 8)

INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS: A
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: B
ROOMS AND ENCLOSED SPACES: C

FIRE PROTECTION SYSTEMS (IBC CHAPTER 9)

PORTABLE FIRE EXTINGUISHERS

SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 10 AND INTERNATIONAL FIRE CODE. SEE PLAN FOR LOCATIONS AND TYPE.

FIRE ALARM AND DETECTION SYSTEM

MANUAL FIRE ALARM SYSTEM: NOT REQUIRED

MEANS OF EGRESS INFORMATION (IBC CHAPTER 10)

OCCUPANT LOAD

CALCULATED OCCUPANT LOADING
ACCESSORY STORAGE AND MEP ROOMS 300 SQUARE FOOT PER OCCUPANT
LOCKER ROOMS 50 SQUARE FOOT PER OCCUPANT
INDUSTRIAL 100 SQUARE FOOT PER OCCUPANT

REFER TO OCCUPANT LOAD SCHEDULE FOR TOTAL CALCULATED OCCUPANT LOAD.

MEANS OF EGRESS SIZING

CORRIDORS AND EGRESS COMPONENTS: 0.2' / PERSON / OCCUPANT LOAD.
MINIMUM CLEAR WIDTHS:
DOORS: 32" CLEAR
CORRIDORS: 36" CLEAR

KEYNOTE LEGEND

10.441 SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.

DEFERRED SUBMITTAL LIST

THE FOLLOWING LIST OF SUBMITTALS ARE SUBMITTALS THAT THE DESIGN TEAM RECOGNIZES REQUIRE SUBMISSION TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW THAT ARE NOT AVAILABLE BEFORE CONTRACTOR INVOLVEMENT AND/OR CREATION. THE FOLLOWING WILL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION DURING CONSTRUCTION FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION OF THE ASSOCIATED BUILDING ELEMENTS.

- PRE-ENGINEERED WOOD TRUSSES

FIRE RESISTANCE RATING LEGEND

1-HOUR FIRE RESISTANCE RATING

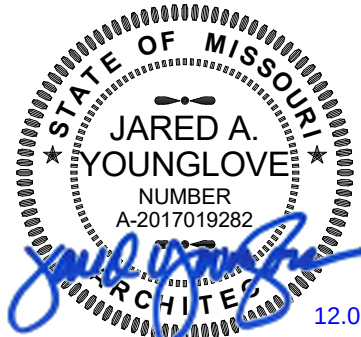
REQUIRED SPECIAL INSPECTIONS AND TESTING

THE FOLLOWING LIST OF SPECIAL INSPECTIONS AND TESTING ARE THOSE REQUIRED BY THE INTERNATIONAL BUILDING CODE SECTION 1700 AND RELEVANT TO THE PROJECT. ALL ITEMS ON THIS LIST SHALL BE TEST AND/OR INSPECTED BY A THIRD-PARTY INSPECTIONS FIRM. THE FOLLOWING SHALL BE INSPECTED BY SAID FIRM, WITH REPORTS AND OBSERVATIONS DELIVERED TO OWNER, ARCHITECT, AND CONTRACTOR, AND ALL DEVIATIONS FROM REQUIREMENTS NOTED AND ADDRESSED.

- CONCRETE CONSTRUCTION (SEE ADDITIONAL NOTES BY STRUCTURAL ENGINEER)
- MASONRY CONSTRUCTION (SEE ADDITIONAL NOTES BY STRUCTURAL ENGINEER)
- WOOD CONSTRUCTION (SEE ADDITIONAL NOTES BY STRUCTURAL ENGINEER)
- SOILS (SEE ADDITIONAL NOTES BY CIVIL AND STRUCTURAL ENGINEERS AND IN GEOTECHNICAL REPORT)

STATE OF MISSOURI

MIKE KEHOE,
GOVERNOR



JARED A. YOUNGLOVE, ARCHITECT
MO # A-2017019282

PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-2017019282

637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0802
www.paragonarchitecture.com

COPYRIGHT 2025 ©
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC. AND SHALL BE USED ONLY FOR THE
PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:

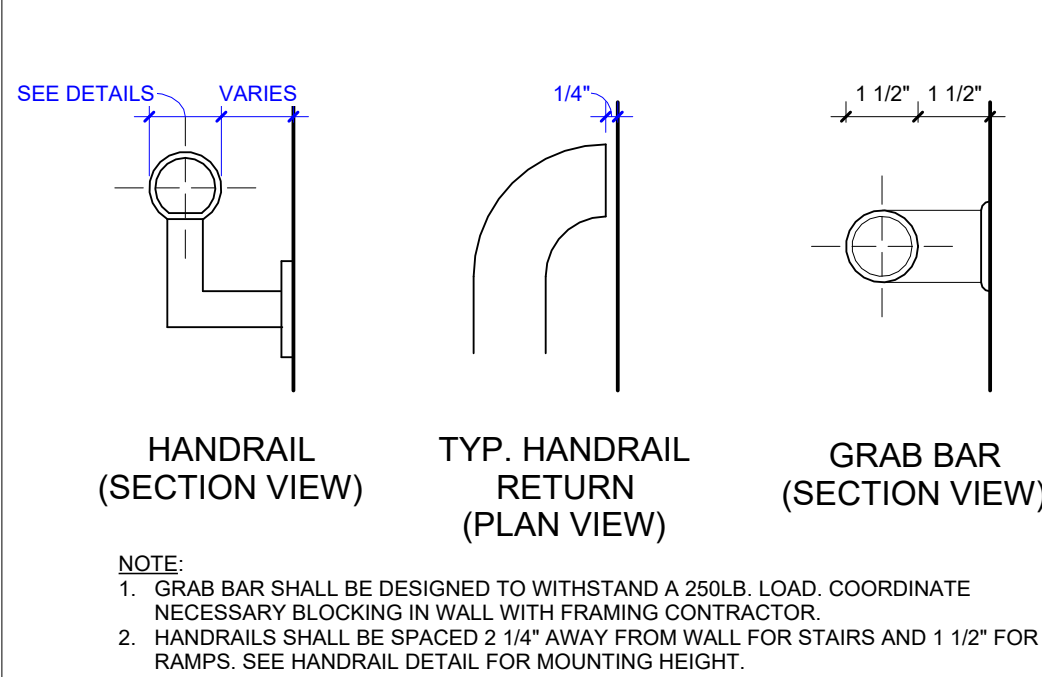
CODE PLAN

SHEET NUMBER:

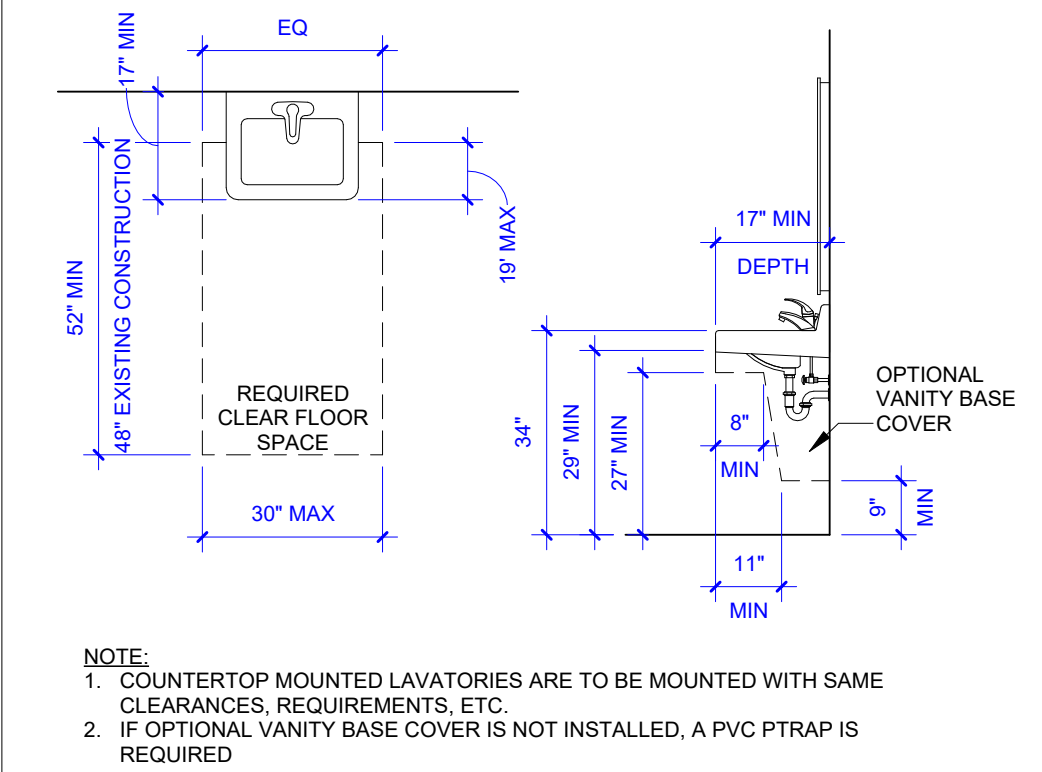
G-103

4 OF 71 SHEETS
10/24/2025

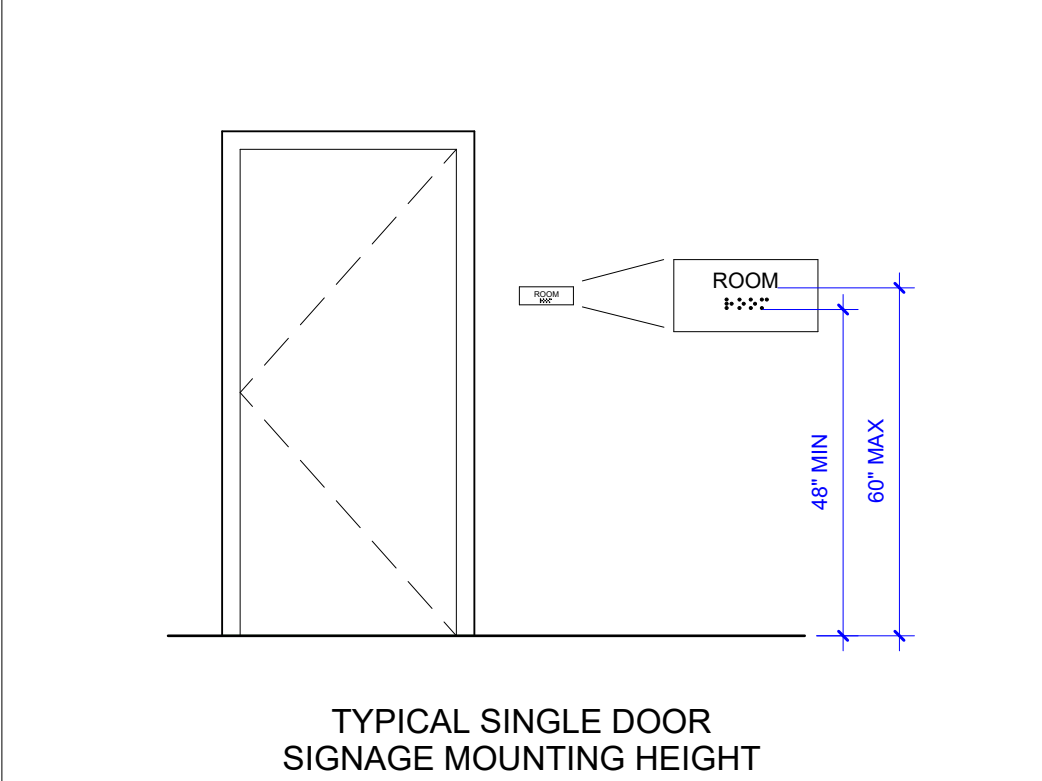
1 CODE PLAN
SCALE 1/4" = 1'-0"



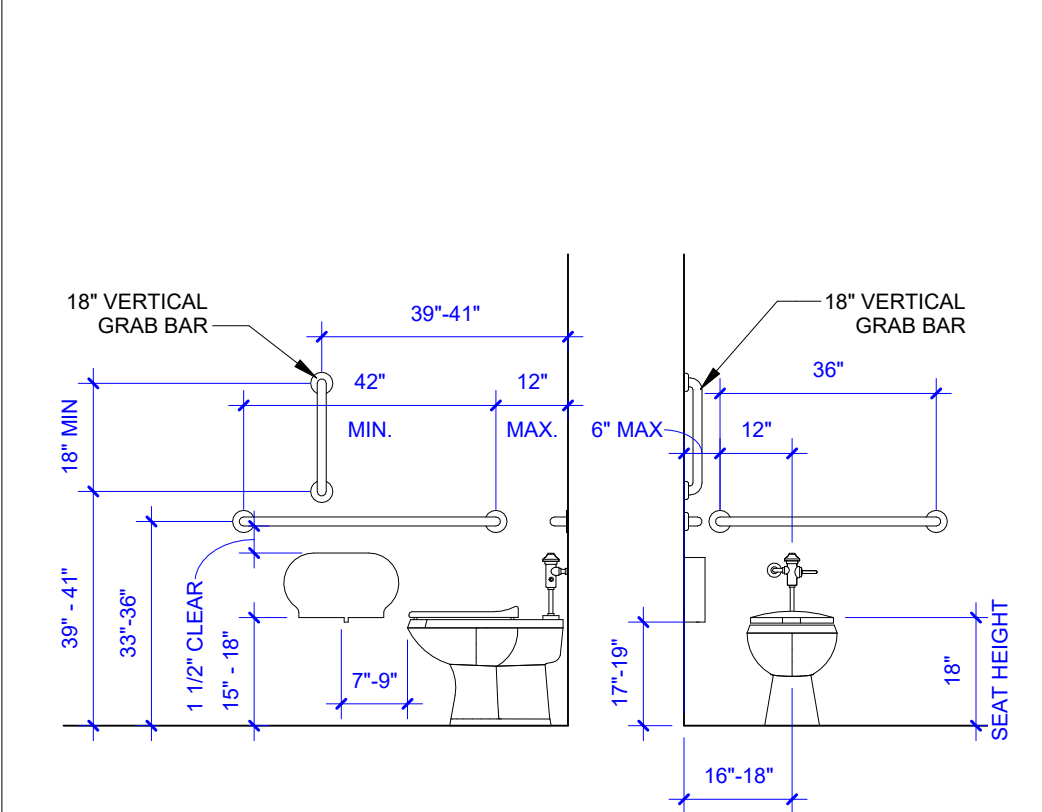
ACCESSIBLE GRAB BARS AND HANDRAILS



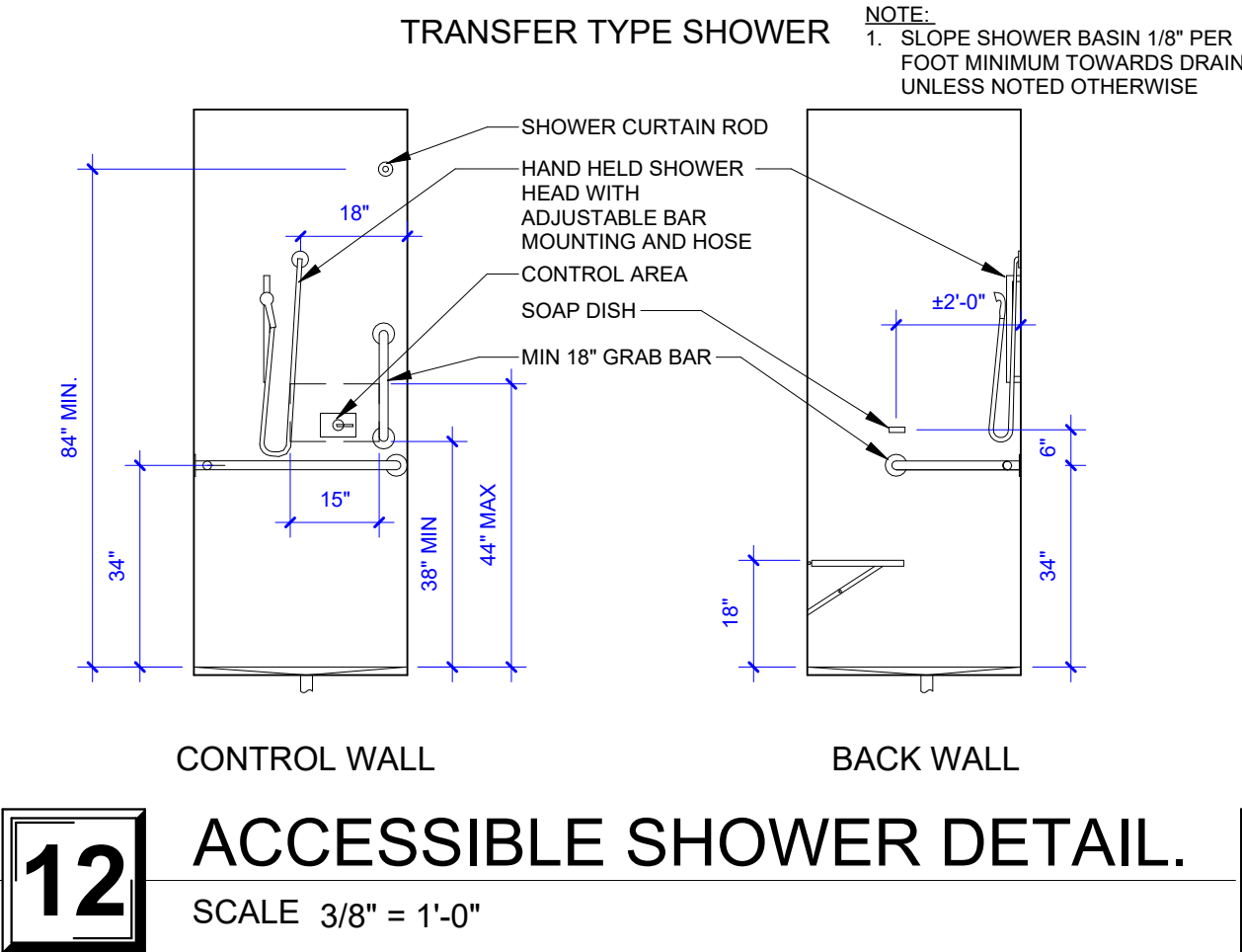
ACCESSIBLE LAVATORY.



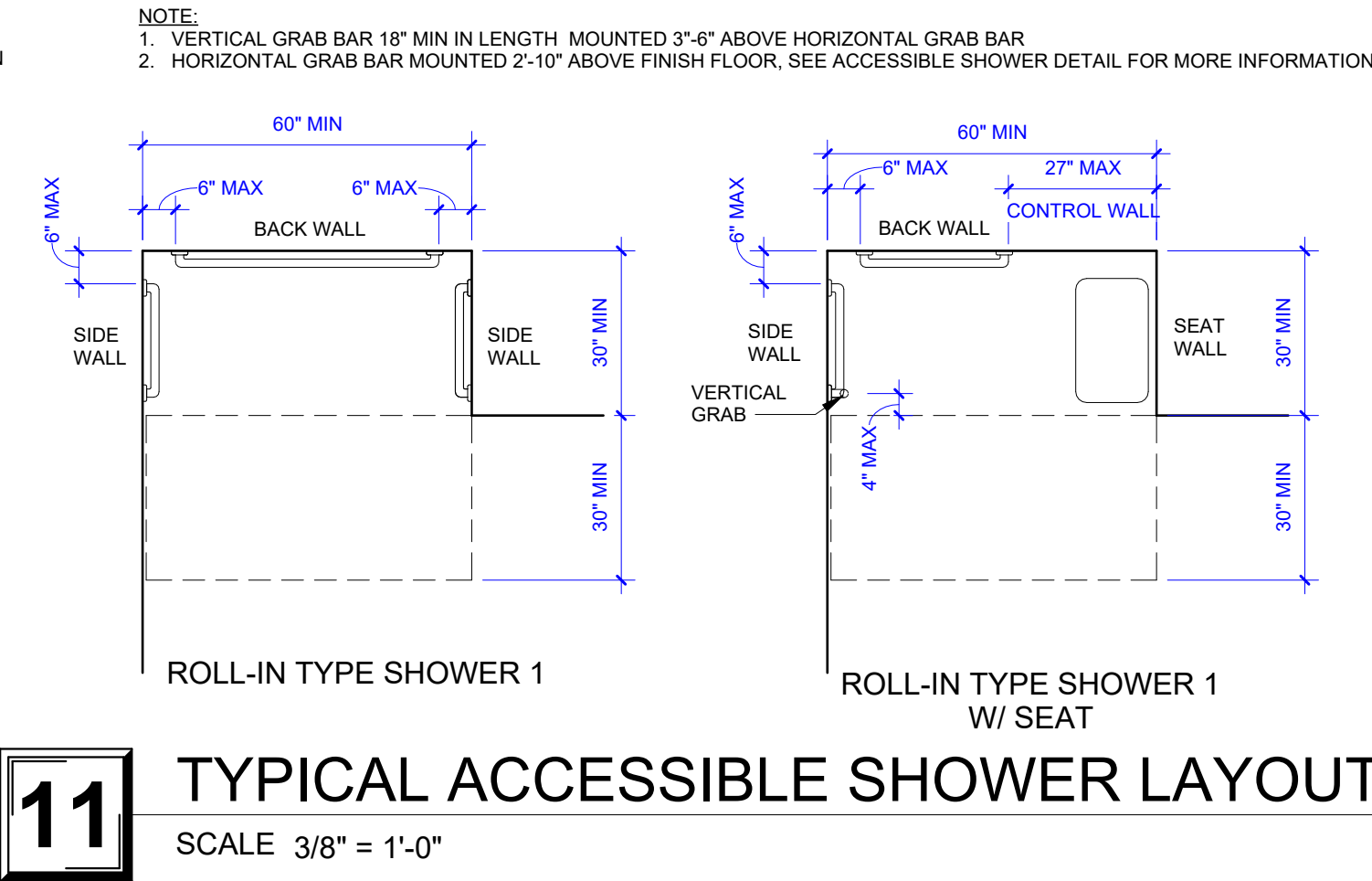
ACCESSIBLE TACTILE SIGNAGE MOUNTING AND LOCATION.



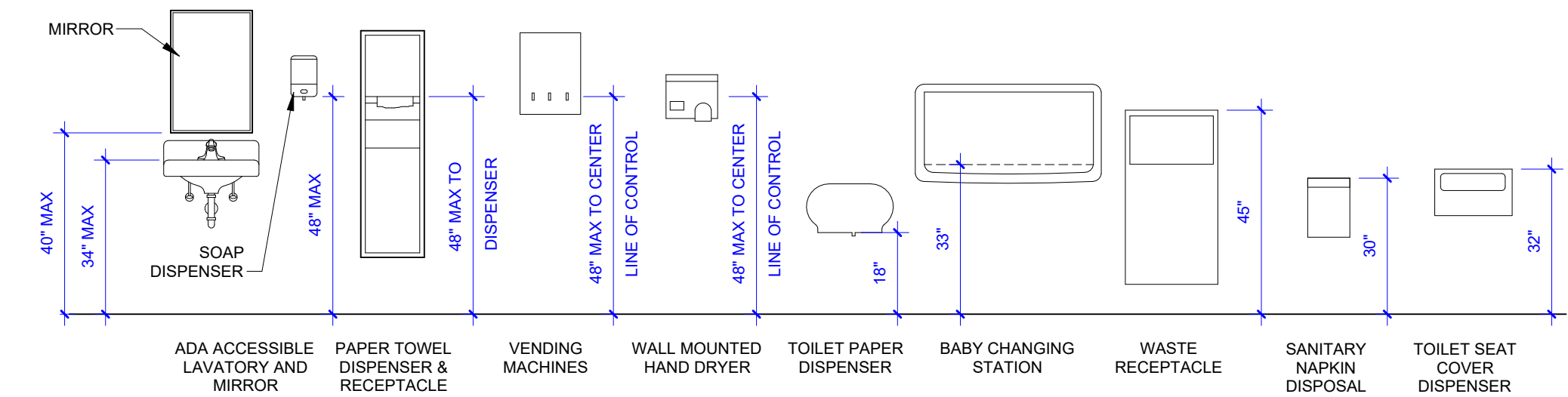
ACCESSIBLE WATER CLOSET.



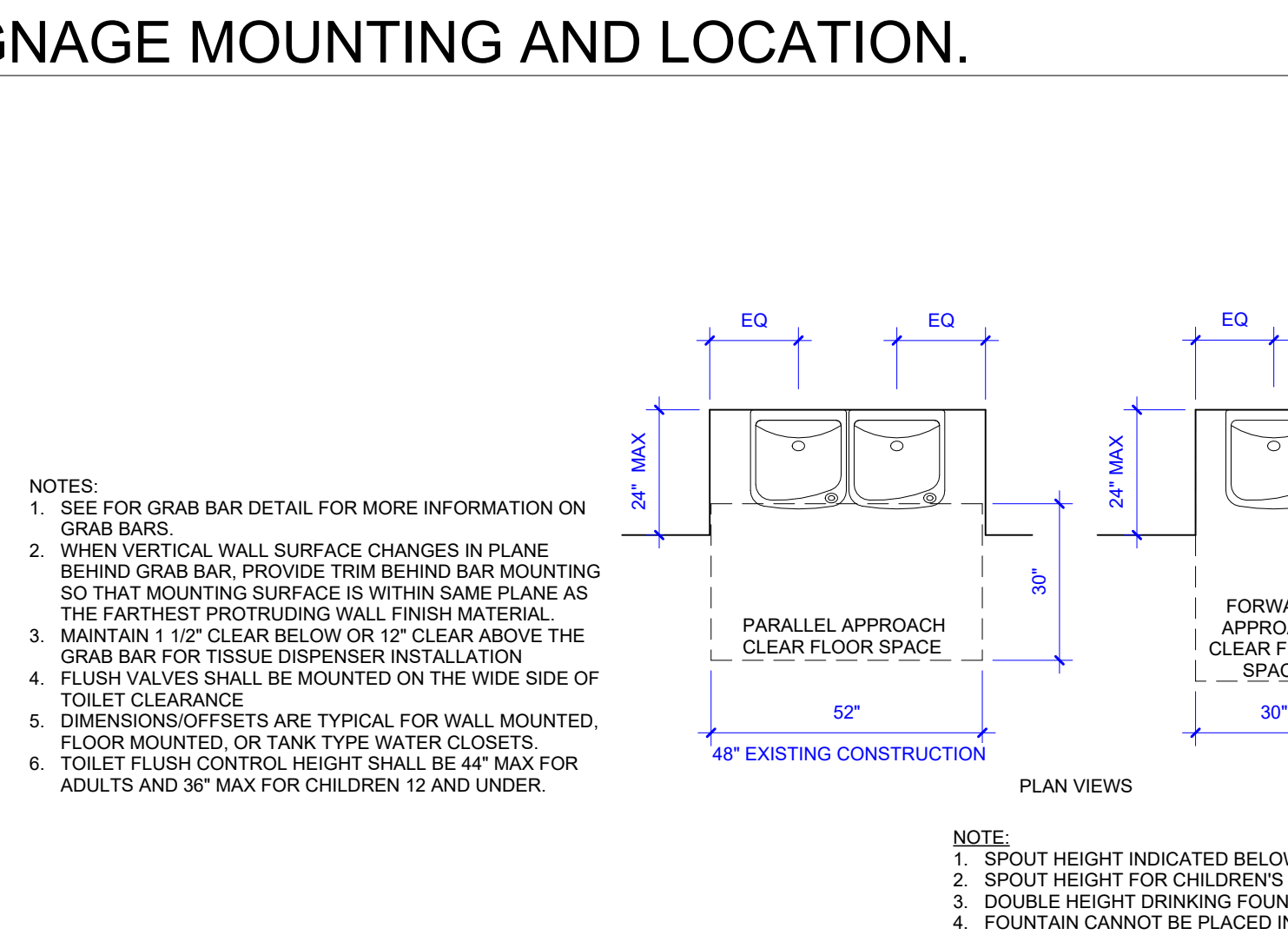
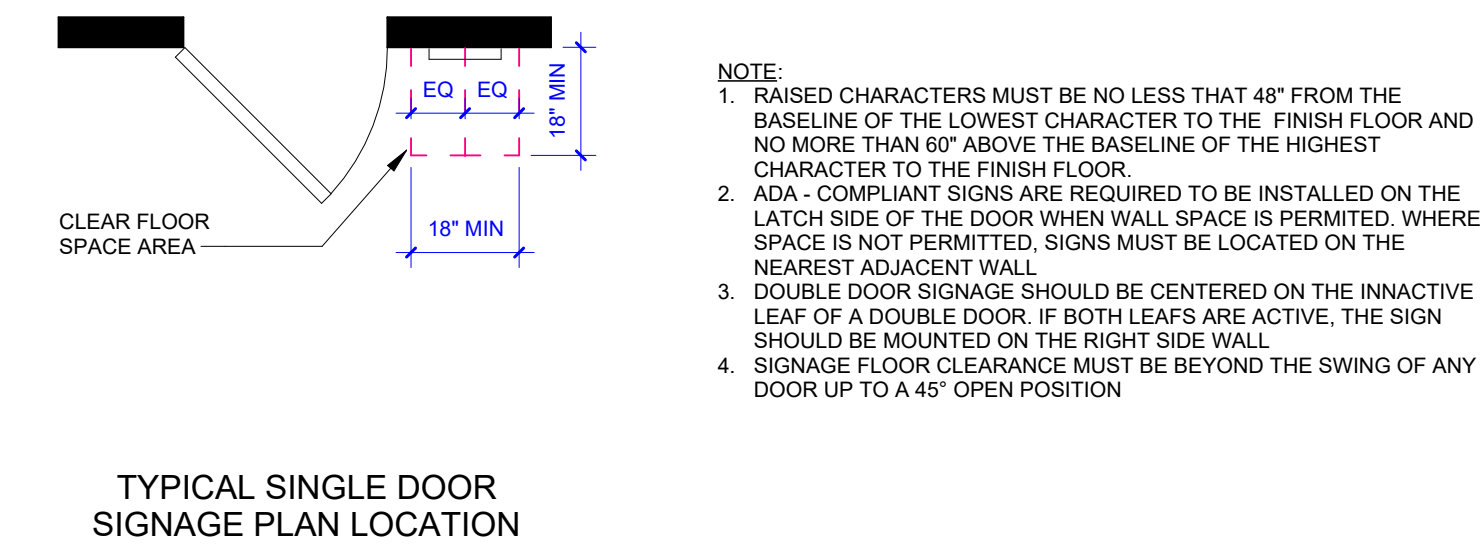
ACCESSIBLE SHOWER DETAIL.



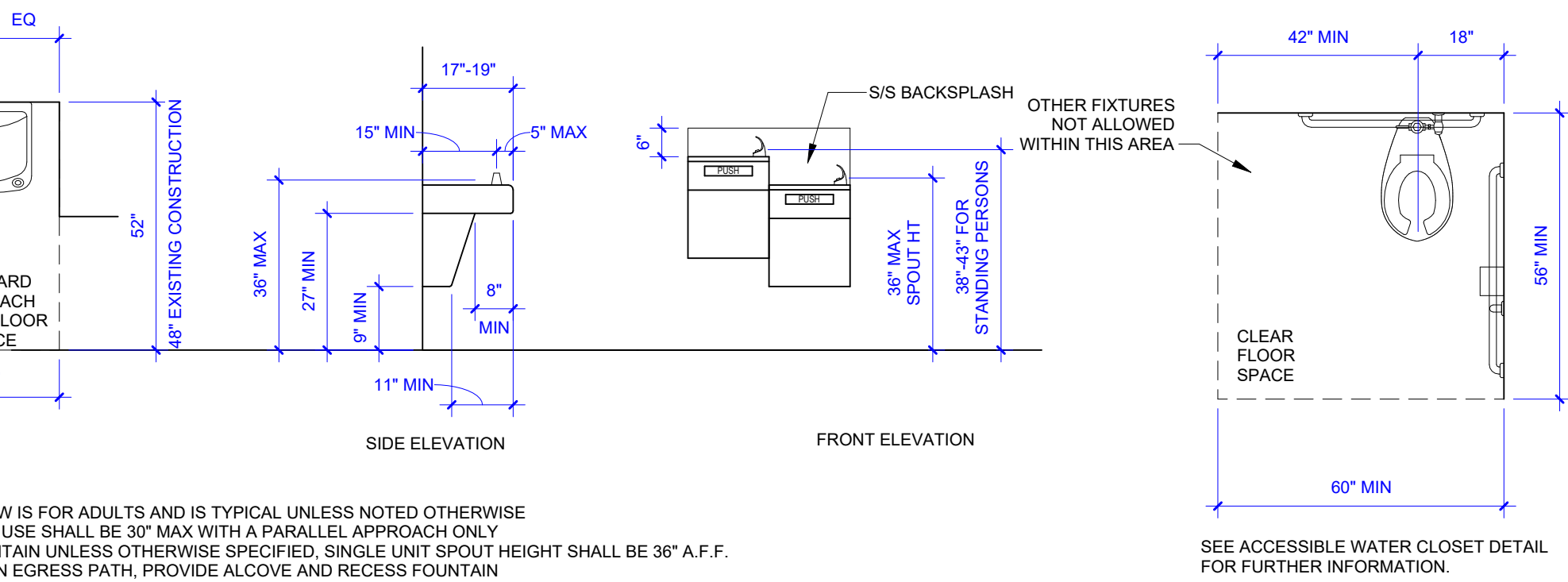
TYPICAL ACCESSIBLE SHOWER LAYOUT.



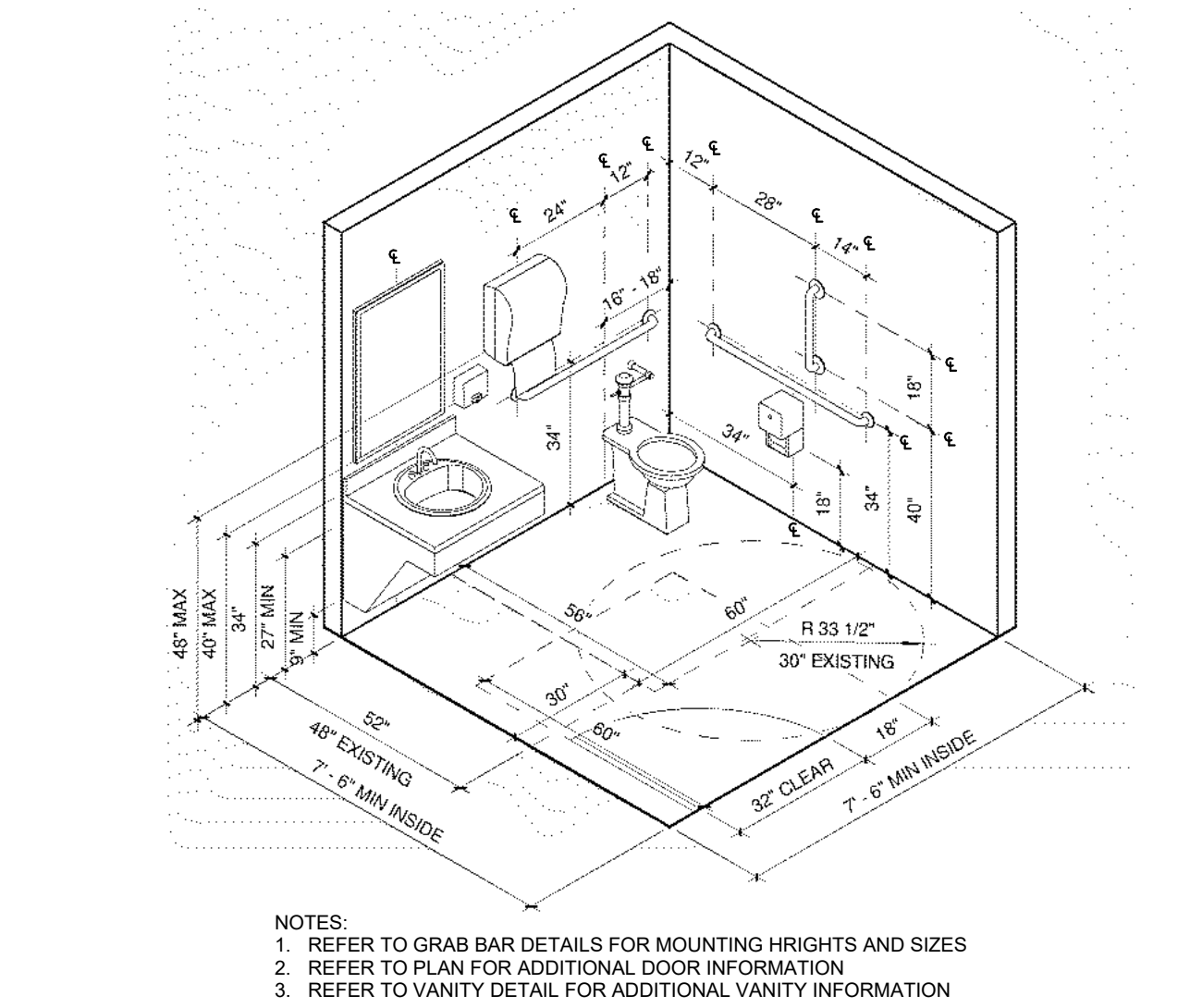
ACCESSIBLE RESTROOM ACCESSORIES.



ACCESSIBLE DRINKING FOUNTAIN.



CLEARANCE FOR WATER CLOSET



ACCESSIBLE RESTROOM - SINGLE.



PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-2017019282
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025 ©
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC AND SHALL BE USED ONLY FOR THE
PROJECT REFERENCE BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

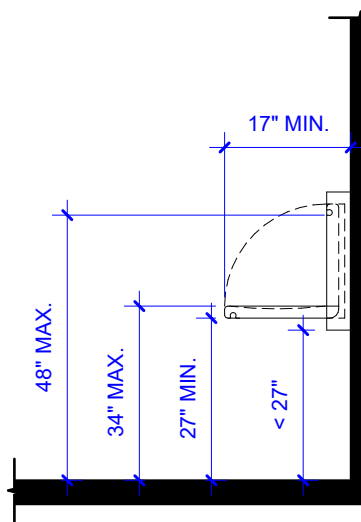
PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
ACCESSIBILITY
STANDARDS

SHEET NUMBER:

G-105

6 OF 71 SHEETS
10/24/2025



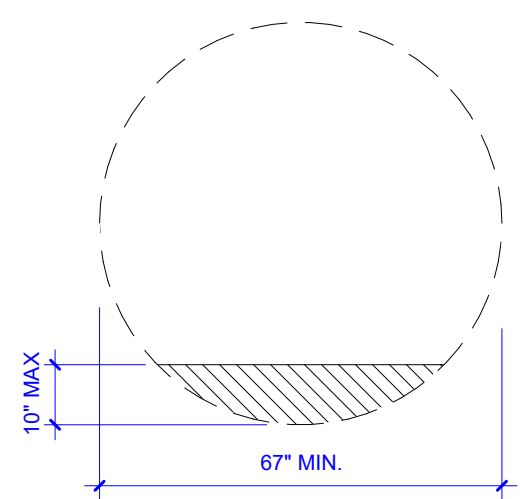
- NOTE:
1. WHEN A WALL-MOUNTED CHANGING STATION PROTRUDES MORE THAN 4" FROM THE FACE OF WALL, THE BOTTOM EDGE MUST BE LESS THAN 27" FROM FINISHED FLOOR.
 2. THE BOTTOM OF THE OPEN CHANGING PLATFORM NEEDS A MIN. OF 27" CLEARANCE FROM FINISHED FLOOR, AND A MIN. OF 17" CLEARANCE FROM THE WALL.
 3. THE TOP SURFACE OF THE OPEN CHANGING PLATFORM CAN BE A MAX. OF 34" ABOVE FINISHED FLOOR.
 4. IN THE CLOSED POSITION, THE HANDLE ON THE BABY CHANGING STATION CAN BE A MAX. OF 48" ABOVE FINISHED FLOOR.

- FOR ANY CLARITY ON THESE DIMENSIONS, PLEASE SEE ADA REACH CLEARANCE AND CLEARANCE OF PROTRUDING OBJECTS DIAGRAMS.

10 ACCESSIBLE BABY CHANGING STATION.

SCALE 3/8" = 1'-0"

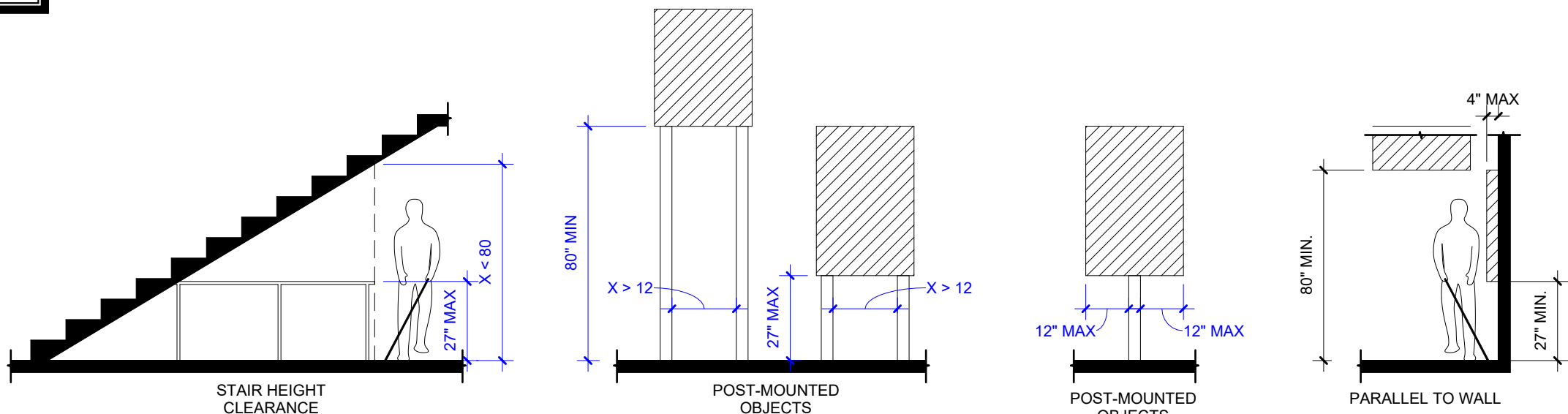
OVERLAP OF KNEE AND TOE CLEARANCE



NEW CONSTRUCTION

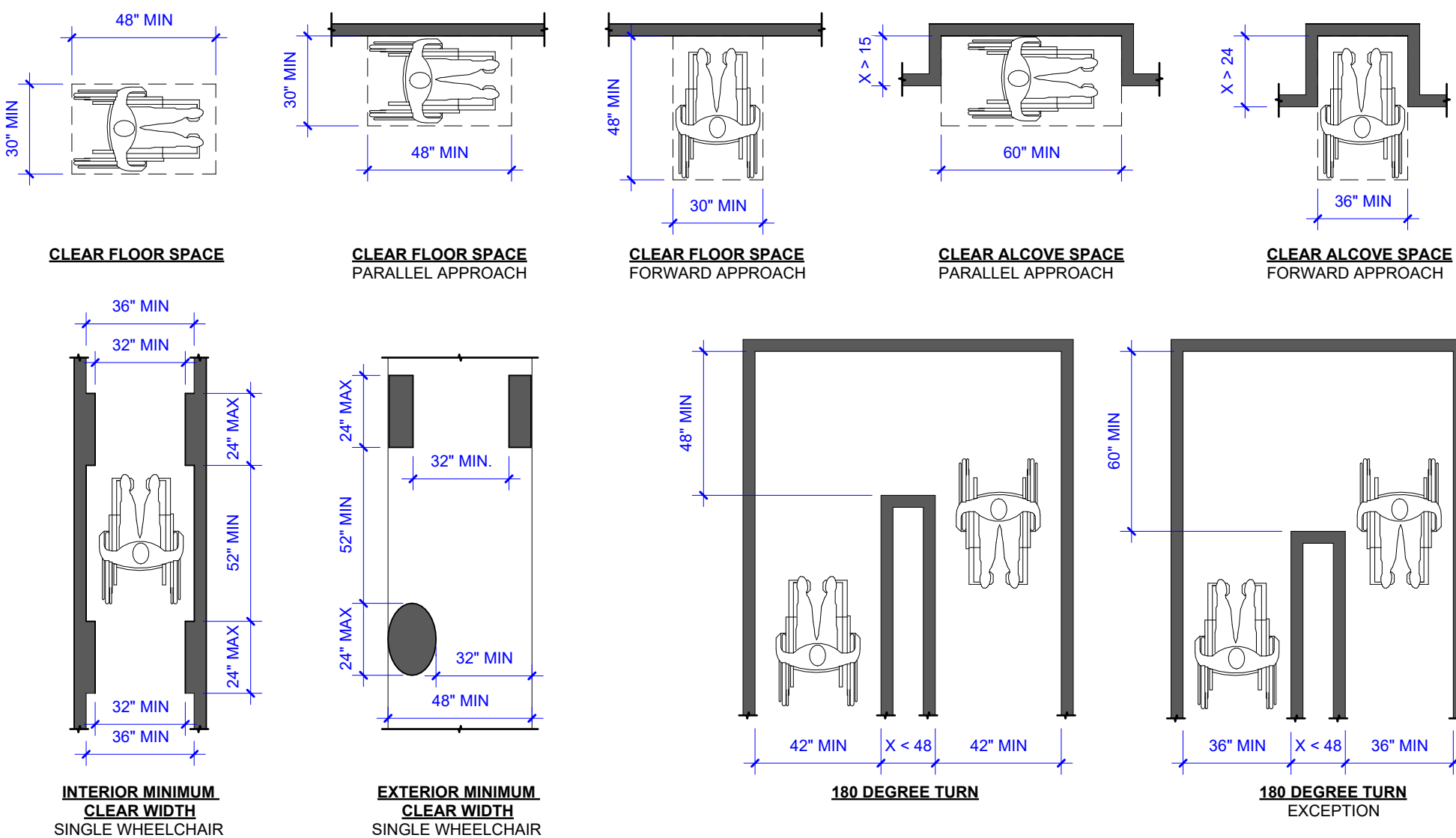
8 ACCESSIBLE TURN RADIUS.

SCALE 3/8" = 1'-0"



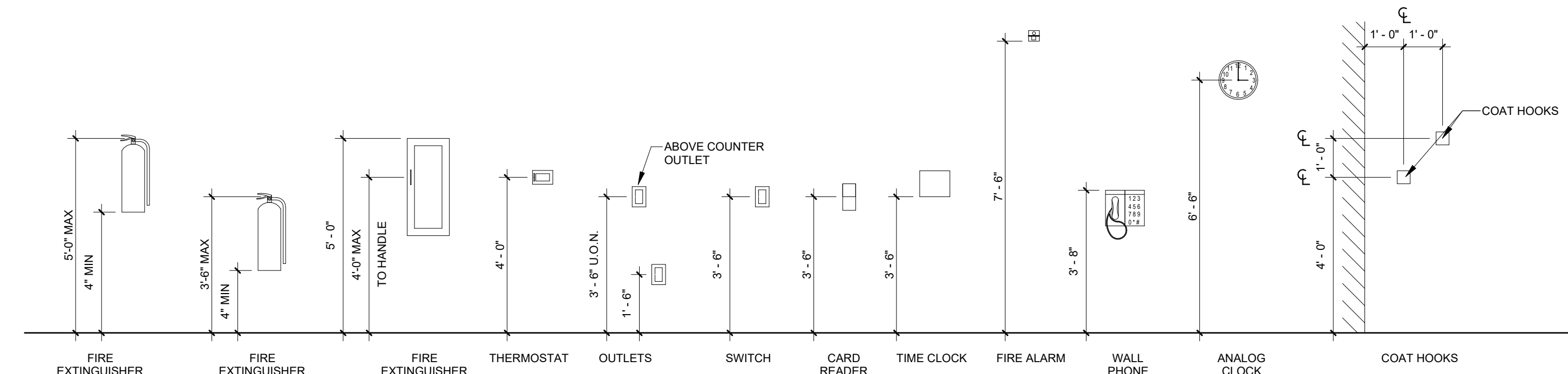
5 PROTRUDING OBJECT CLEARANCE.

SCALE 1/4" = 1'-0"



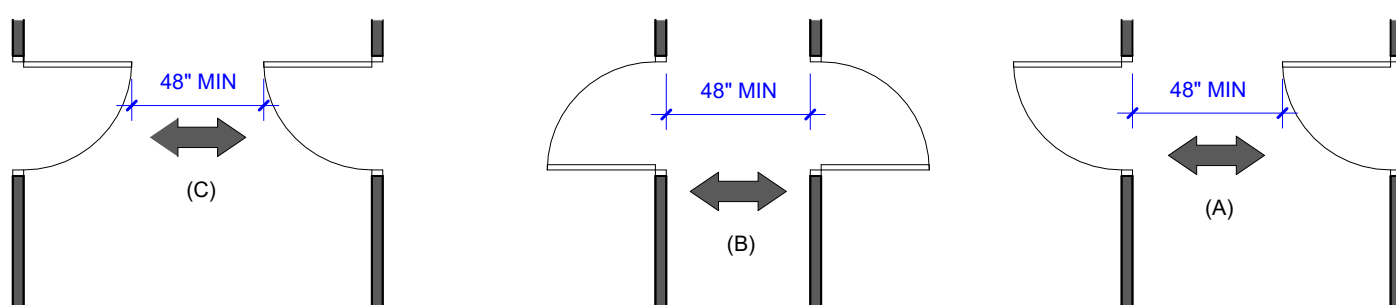
3 CLEAR FLOOR SPACE & MANEUVERING ACCESS.

SCALE 1/4" = 1'-0"



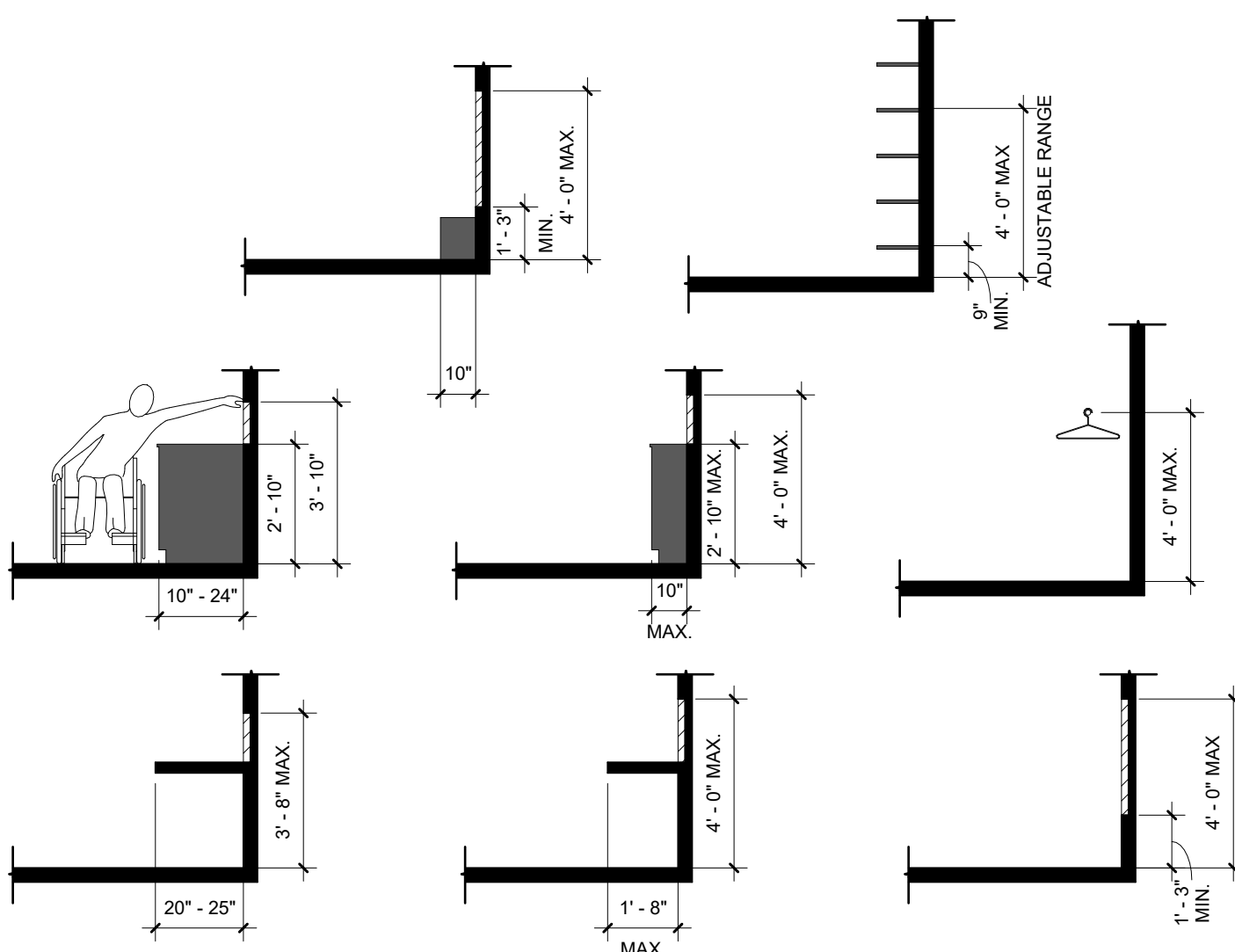
6 ACCESSIBLE ACCESSORIES TYPICAL.

SCALE 3/8" = 1'-0"



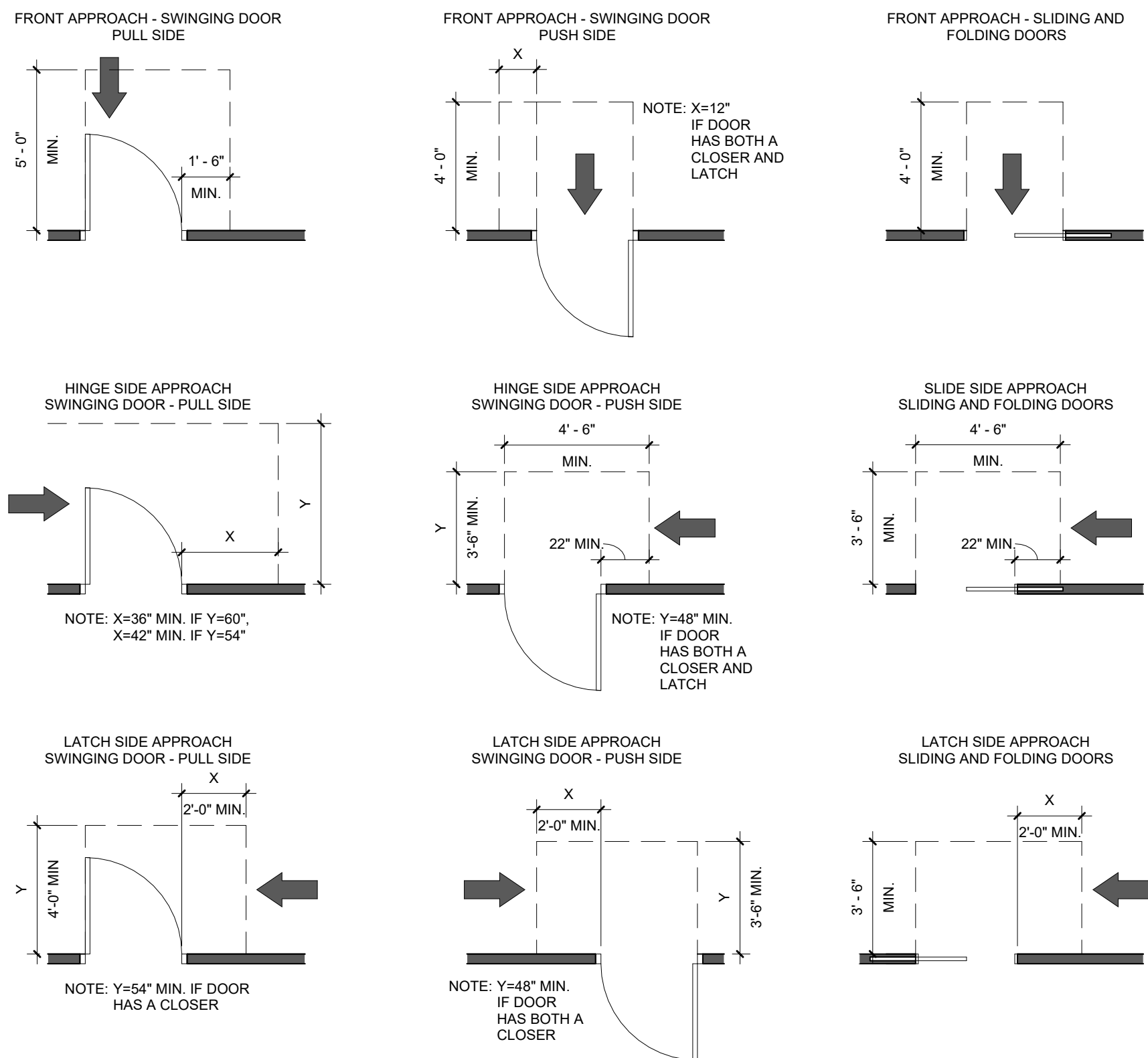
4 CORRIDOR DOOR CLEARANCES.

SCALE 3/16" = 1'-0"



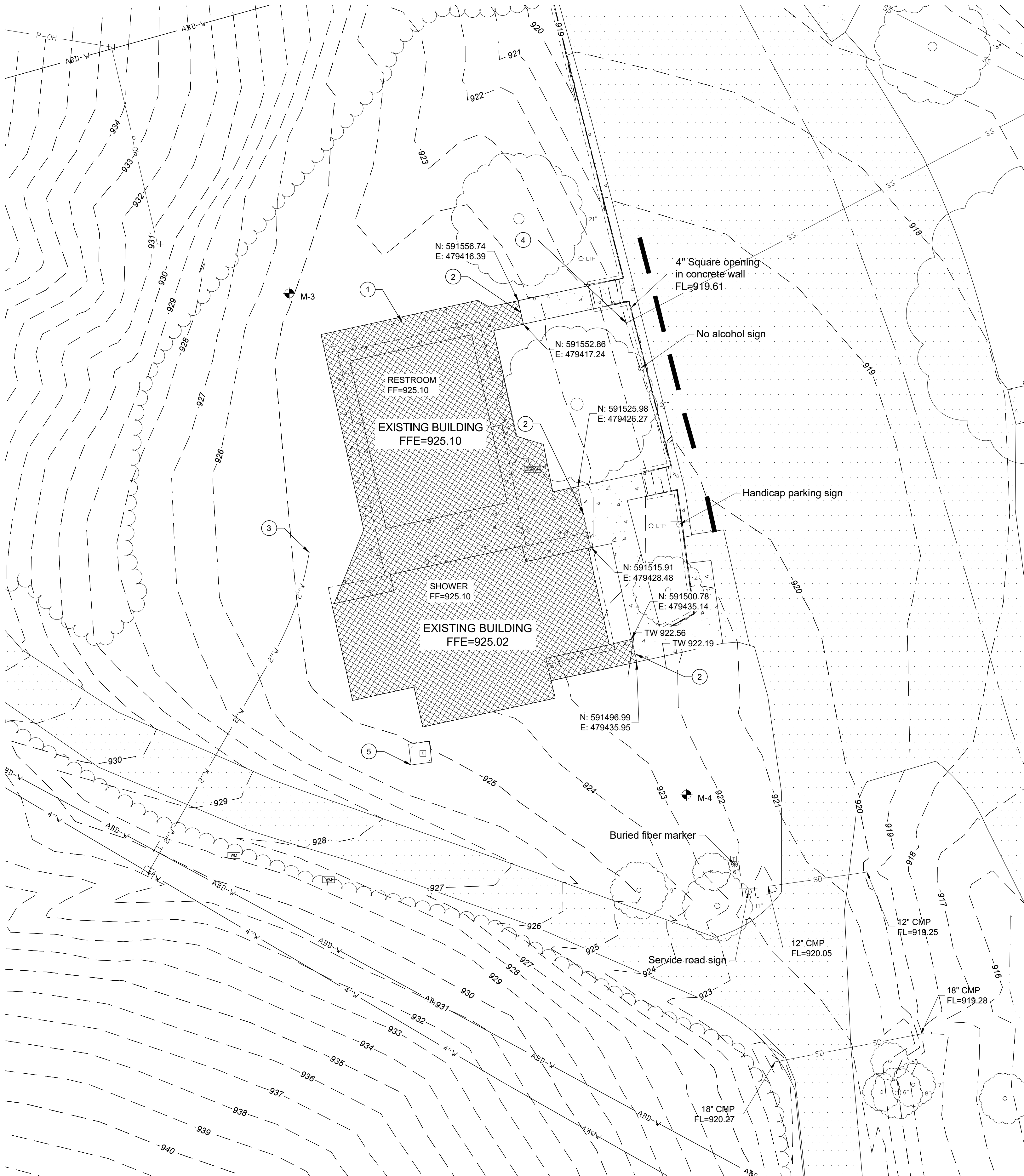
2 ACCESSIBLE REACH CLEARANCE.

SCALE 1/4" = 1'-0"



1 ACCESSIBLE APPROACH DIAGRAM.

SCALE 1/4" = 1'-0"



NOTE:
THE CONTRACTOR SHALL NOTIFY PARK SUPERINTENDENT NO LESS THAN TWO (2) WEEKS PRIOR TO COMMENCING ANY DEMOLITION ACTIVITIES WITHIN THE PARK. THIS ADVANCE NOTICE WILL ALLOW PARK PERSONNEL SUFFICIENT TIME TO:

- IDENTIFY AND MARK ANY INTERNAL UTILITIES THAT MAY BE AFFECTED.
- COMPLETE ALL NECESSARY DOCUMENTATION AND APPROVALS REQUIRED FOR DEMOLITION.
- REMOVE ANY EXISTING MATERIALS DEEMED VALUABLE FOR FUTURE PARK USE.

PARK STAFF RESERVE THE RIGHT TO SALVAGE AND REMOVE MATERIALS DURING THIS TWO WEEK PERIOD.

- NOTES:**
- DEMO AND REMOVE EXISTING STRUCTURE, SIDEWALK, FOUNDATION, ELECTRICAL AND PLUMBING WITH DESIGNATED AREA.
 - SAW CUT EXISTING CONCRETE
 - PRIOR TO DEMOLITION, CUT AND CAP EXISTING WATER SERVICE LINES FOR FUTURE CONNECTION TO NEW SHOWER HOUSE/RESTROOM.
 - PRIOR TO ANY DEMOLITION ACTIVITIES, LOCATE EXISTING SANITARY SEWER LATERAL AND VERIFY SIZE, THE CONTRACTOR SHALL CUT AND CAP THE EXISTING SEWER LINE. THE CAP MUST BE PLACED WITH ADEQUATE CLEARANCE TO PROTECT THE EXISTING RETAINING WALL AND POSITIONED TO ALLOW FOR FUTURE CONNECTION TO NEW BUILDING'S SANITARY SERVICE LINE.
 - DEMOLITION OF ELECTRICAL INCLUDES REMOVAL OF ELECTRICAL CABLES FROM EXISTING BUILDING TO EXISTING TRANSFORMER AND DISCONNECTED FROM POWER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE EXISTING MATERIALS FROM SITE AND DEPOSED OF PROPERLY. EXISTING TRANSFORMER TO REMAIN. SEE ELECTRICAL SHEETS.

LEGEND

BORE HOLE - SEE SPECIFICATIONS FOR GEOTECH REPORT AND BORING LOG

GENERAL DEMOLITION NOTES

- THESE DEMOLITION DRAWINGS DEFINE THE PROJECT BOUNDARY AND SCOPE OF DEMOLITION WORK. WHERE INDIVIDUAL ITEMS ARE SHOWN ON DEMOLITION PLANS AS DASHED, OR WHERE "LIMITS OF" ELECTRICAL DEMOLITION BOUNDARY IS IDENTIFIED AND/OR SHOWN AS HATCHED AREA, ELECTRICAL EQUIPMENT, DEVICES, FIXTURES, WIRING, RACEWAY, AND DATA/COMMUNICATIONS SYSTEMS SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. ITEMS WITHIN "LIMITS OF ELECTRICAL DEMOLITION" THAT SERVE ADJACENT AREAS SHALL REMAIN, RE-SUPPORT ALL RACEWAY AND CABLEING ASSOCIATED WITH THESE EXISTING TO REMAIN ITEMS THAT PASS THROUGH THE DEMOLITION BOUNDARY.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THESE CONTRACT DOCUMENTS, AND FAMILIARIZE THEMSELVES WITH THE WORK PRIOR TO BIDDING AND COMMENCING THE SCOPE OF WORK. THESE CONTRACT DOCUMENTS DO NOT ACCOUNT FOR ALL ITEMS, NOR DO THEY GUARANTEE THE ACCURACY OF EXISTING CONDITIONS. THESE DOCUMENTS ARE PROVIDED AS AN AID IN DEFINING THE DEMOLITION SCOPE OF WORK FOR THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING CONDITIONS AND INCLUDE IN THEIR BID ANY NECESSARY ADJUSTMENTS TO ACCOUNT FOR ACTUAL FIELD CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED AFTER BIDS ARE SUBMITTED FOR CHANGES WHICH OCCUR AS A RESULT OF EXISTING CONDITIONS.
- THESE DEMOLITION DRAWINGS DO NOT IDENTIFY ALL ITEMS TO BE REMOVED, NOR ARE ALL COMPONENTS OF AN ELECTRICAL ITEM IDENTIFIED WHERE INDICATED AS REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ITEMS WHICH MUST BE REMOVED TO FACILITATE THE EXECUTION OF NEW WORK UNDER THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DOCUMENTS WITHIN THE PROJECT MANUAL (ARCHITECTURAL, MECHANICAL, ETC.) FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS. WHERE THE CONTRACTOR IS UNCLEAR ABOUT THE SCOPE OF DEMOLITION OF A SPECIFIC ELECTRICAL ITEM, REFER ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO BID FOR CLARIFICATION.
- PHASING OF ELECTRICAL DEMOLITION SHALL FOLLOW THAT OF THE GENERAL CONTRACTOR. COORDINATE REMOVAL OF ELECTRICAL WORK WITH WORK OF OTHER TRADES, OTHER CONSTRUCTION ACTIVITIES, AND THE REQUIREMENTS OF THE OWNER. ELECTRICAL SYSTEMS SUPPORTING AREAS OF BUILDING NOT IN CURRENT PHASE OF CONSTRUCTION SHALL BE MAINTAINED FULLY OPERATIONAL. COORDINATE WITH WORK OF OTHER TRADES TO PROVIDE TEMPORARY POWER AND LIGHTING IN AREAS OF CURRENT AND FUTURE PHASES AS REQUIRED TO FACILITATE WORK.
- WHERE DEMOLITION WORK WILL INTERRUPT OTHER AREAS OF THE FACILITY THAT ARE TO REMAIN IN OPERATION, PROVISIONS SHALL BE INSTALLED TO MAINTAIN THOSE AREAS IN COMPLETE OPERATION. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED. PROVIDE ALL NECESSARY ACCOMMODATIONS AHEAD OF TIME TO LIMIT INTERRUPTION OF SYSTEM TO THE TIME NEEDED TO DISCONNECT AND IMMEDIATELY RECONNECT THE SYSTEM TO RESTORE TO FULL OPERATION. ESSENTIAL SERVICES DEEMED BY THE OWNER MAY REQUIRE PREMIUM TIME AND SHALL BE INCLUDED IN CONTRACTOR'S BID. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO EQUIPMENT, DEVICES, AND LUMINAIRES THAT SHALL NOT BE REMOVED BY THIS PROJECT. CONTRACTOR SHALL MARK AND IDENTIFY EXISTING ELECTRICAL SYSTEM COMPONENTS WHICH SHALL NOT BE REMOVED, OR ITEMS WHICH MUST BE MAINTAINED AND PROTECTED FOR ANY DURING OF CONSTRUCTION BEYOND EARLY DEMOTION EFFORTS TO REDUCE POSSIBILITY OF ACCIDENTAL INTERRUPTION ON SYSTEM. WHERE EXISTING DEVICE OR JUNCTION BOXES MUST REMAIN IN EXISTING WALLS OR CEILINGS (SUCH AS FOR CIRCUITS THAT MUST BE MAINTAINED TO OTHER AREAS), THEN THEY SHALL BE FITTED WITH BLANK COVER PLATES. WHERE EXISTING TO REMAIN ELECTRICAL ITEMS REQUIRE ACCESS, AND IF REQUIRED TO FACILITATE NEW WORK, CONTRACTOR SHALL RELOCATE ITEM TO AN ACCESSIBLE LOCATION.
- WHERE DEMOLITION OF WALL IS INDICATED ON THESE DEMOLITION PLANS, OR ON ARCHITECTURAL DRAWINGS, ALL ELECTRICAL SYSTEM COMPONENTS WITHIN WALL SHALL BE REMOVED IN THEIR ENTIRETY WITH SUPPORTING RACEWAY AND CIRCUITS REMOVED BACK TO THEIR SOURCE. CONTRACTOR SHALL DISCONNECT ALL ELECTRICAL SYSTEM COMPONENTS TO ALLOW WALLS TO BE DEMOLISHED BY OTHERS. ALL ELECTRICAL SYSTEM COMPONENTS THAT ARE EXPOSED AND SURFACE MOUNTED, AND NO LONGER ACTIVE, SHALL BE REMOVED.
- WHERE WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING SYSTEMS, STRUCTURE, AND ANY ITEMS WHICH ARE TO REMAIN. IF EXISTING TO REMAIN ELECTRICAL SYSTEM COMPONENTS ARE DAMAGED THROUGH THE COURSE OF WORK, CONTRACTOR IS RESPONSIBLE TO PROVIDE NEW PRODUCTS OF EQUAL TYPE, QUANTITY, CAPACITY, AND FUNCTIONALITY. IF HAZARDOUS MATERIAL (E.G. ASBESTOS, PCB'S, ETC) ARE ENCOUNTERED AT ANY TIME DURING CONSTRUCTION IN THE SCOPE OF WORK, STOP WORK IMMEDIATELY AND CONTACT THE ARCHITECT, ENGINEER, OR OWNER.
- WHERE ELECTRICAL SYSTEM ITEMS TO BE DEMOLISHED RESIDE ON A HOUSEKEEPING PAD, CONTRACTOR SHALL REMOVE PAD IN ITS ENTIRETY AND FLOOR SHALL BE PATCHED SO THAT FINISH MATCHES ADJACENCIES.
- WHERE DISTRIBUTION OR BRANCH CIRCUIT EQUIPMENT (PANELBOARDS, SWITCHBOARDS, ETC.) IS TO BE REMOVED, THEN ALL CIRCUITS WHICH FEED ITEMS TO REMAIN SHALL BE RECONNECTED TO NEW DISTRIBUTION OR BRANCH CIRCUIT EQUIPMENT. REFER ALL QUESTIONS TO THE ARCHITECT/ENGINEER FOR CLARIFICATION.
- EXISTING PANEL DIRECTORIES SHALL BE UPDATED TO ACCURATELY REFLECT CONDITIONS AFTER WORK IS COMPLETE. UNUSED CIRCUIT BREAKERS SHALL BE LABELED AS "SPARE."
- WHERE OWNER'S STANDARD INCLUDES LABELING OF ELECTRICAL DEVICE COVERPLATES, ALL UNLABELED ELECTRICAL DEVICES OR DEVICES WITH SOURCE BRANCH CIRCUIT MODIFIED DURING CONSTRUCTION SHALL BE CIRCUIT TRACED AS REQUIRED FOR NEW/UPDATED LABEL TO BE PROVIDED.
- ELECTRICAL FIXTURES AND EQUIPMENT THAT ARE INDICATED TO BE RE-USED AND RE-INSTALLED SHALL BE CAREFULLY REMOVED AS NOT TO DAMAGE EQUIPMENT OR FIXTURE AND PROTECTED FROM DAMAGE UNTIL READY FOR RE-INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT COST OF ANY EQUIPMENT OR FIXTURES THAT BECOME DAMAGED PRIOR TO RE-INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL INFRASTRUCTURE THAT IS TO REMAIN. THIS INCLUDES BUT IS NOT LIMITED TO PARK ROADS, SIDEWALKS, RAILING AND UTILITY SYSTEMS.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 10/24/2025

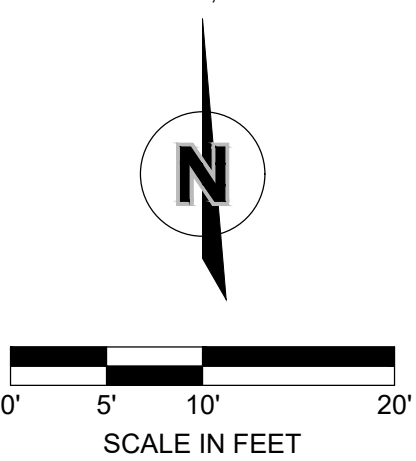
CAD DWG FILE: C-101.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:
DEMOLITION PLAN
LOOP #4

SHEET NUMBER:
C-101
7 OF 71 SHEETS
10/24/2025

1 SHOWER HOUSE RESTROOM DEMOLITION PLAN LOOP 4

SCALE: 1" = 10'

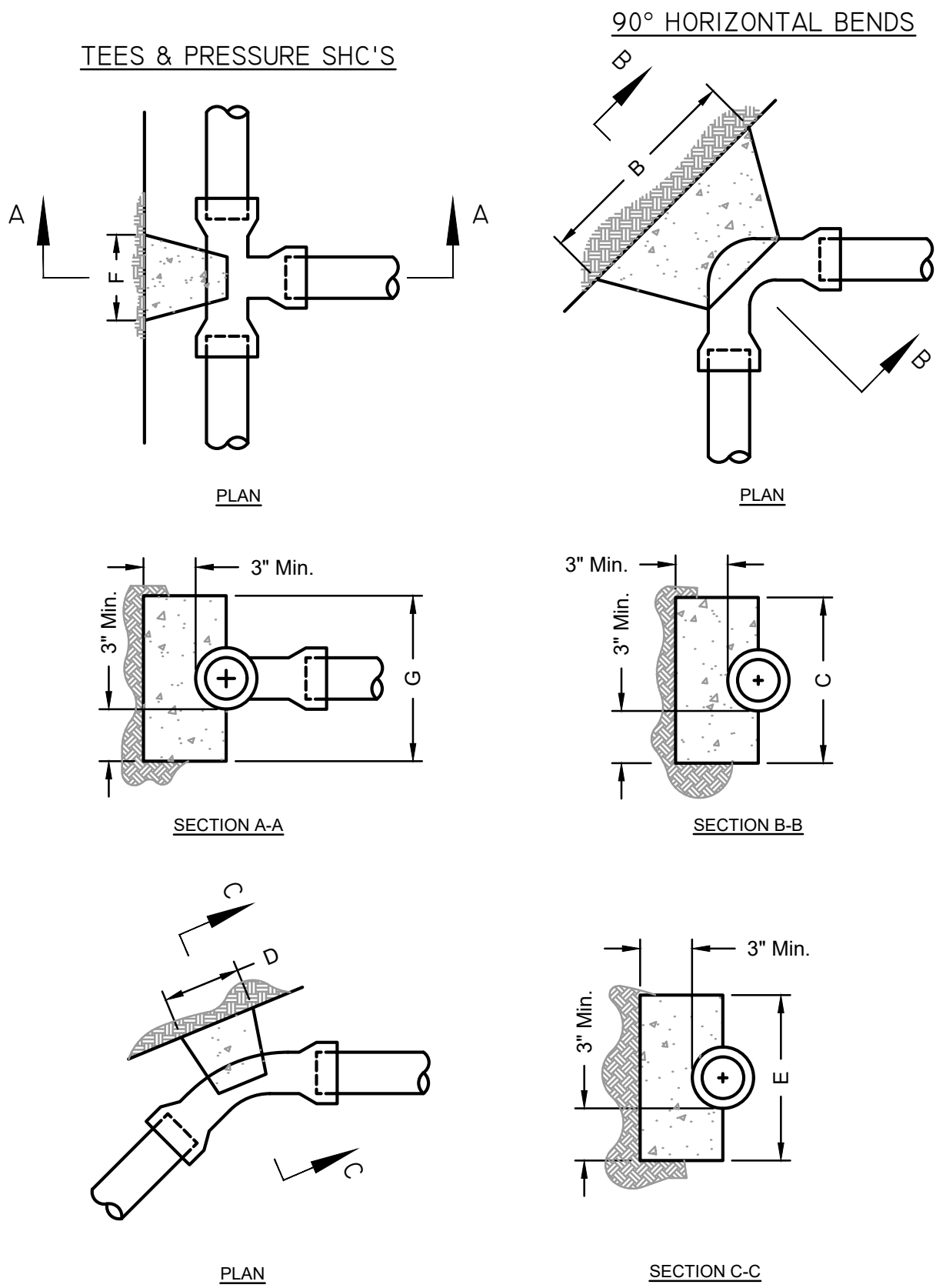




- NOTES:
- NEW CONCRETE SIDEWALK.
 - EXTEND NEW 4" PVC SEWER SERVICE LINE TO NEW SEWER SERVICE LINE FROM NEW SHOWER HOUSE/RESTROOM.
 - NEW CONCRETE SIDE WALK, MATCH EXISTING SIDEWALK. MAX. JOINT SPACING TO BE 5'.
 - ADA HANDRAIL ON ADA CONCRETE HANDICAP RAMP. MAX. JOINT SPACING TO BE 5'. CONSTRUCTION JOINT WITH 1/2" ASPHALTIC EXPANSION JOINTS AT ALL INTERSECTIONS TO CONCRETE LANDINGS.
 - EXISTING 2" WATERLINE, EXTEND AND CONNECT TO WATER SERVICE LINE FROM NEW SHOWER HOUSE /RESTROOMS. SEE DETAIL 11, SHEET C-105.
 - EXISTING UTILITY TRANSFORMER.
 - SECONDARY UNDERGROUND FEEDERS.
 - EXISTING CONCRETE TO REMAIN

LEGEND

BORE HOLE - SEE SPECIFICATIONS FOR GEOTECH REPORT AND BORING LOG

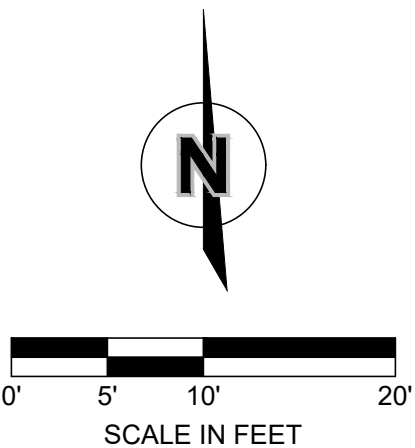


11 1/4°, 22 1/2°, 45°
HORIZONTAL AND LOWER
VERTICAL BENDS

BLOCKING SCHEDULE						
PIPE SIZE	B	C	D	E	F	G
1" THRU 1 1/2"	8"	8"	10"	5"	6"	6"
2"	10"	10"	14"	7"	10"	10"
2 1/2"	10"	10"	14"	7"	10"	10"
3"	12"	12"	18"	9"	12"	12"
4"	13"	12"	24"	12"	16"	16"

- NOTES:
- USE TYPE 1 CONCRETE
 - CARRY ALL BEARING SURFACES TO UNDISTURBED GROUND OR FIRM SUBGRADE.
 - BUTTRESS SIZED FOR 160 PSI
 - DO NOT ENCASE JOINTS
 - ONLY MIX WITH POTABLE WATER

1 CONCRETE THRUST BLOCKS
SCALE: NOT TO SCALE



1 SHOWER HOUSE AND RESTROOM SITE PLAN LOOP 4
SCALE: 1" = 10'

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: C-102.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

SITE PLAN
LOOP #4

SHEET NUMBER:

C-102

8 OF 71 SHEETS
10/24/2025



1 SHOWER HOUSE RESTROOM GRADING PLAN LOOP 4
SCALE: 1" = 10'

- NOTES:
1. NEW CONCRETE SIDEWALK AND BUILDING PAD.

POLLUTION PREVENTION PROCEDURE NOTES:

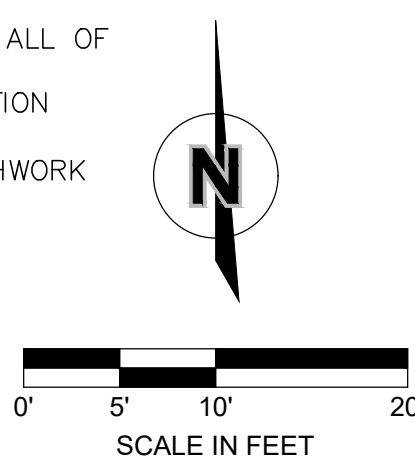
1. HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS:
DO: PREVENT SPILLS
USE PRODUCTS UP
FOLLOW LABEL DIRECTIONS FOR DISPOSAL
REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING TRASH
RECYCLE WASTES WHENEVER POSSIBLE
DON'T: DON'T POUR WASTE INTO SEWERS OR WATERWAYS ON THE GROUND
DON'T POUR WASTE DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS
DON'T BURY CHEMICALS OR CONTAINERS, OR DISPOSE OF THEM WITH OTHER WASTE
DON'T BURN OR MIX CHEMICALS OR CONTAINERS
DON'T WASH SEDIMENT DOWN STORM SEWER INLETS
2. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ON-SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.
3. NO WASTE MATERIALS SHALL BE BURIED ON-SITE.
4. MIXING, PUMPING, TRANSFERRING OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
5. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED ONLY IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS.
6. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY TO STORM SEWERS, STREAMS, DITCHES, LAKES, ETC WITHOUT BEING TREATED. A CONCRETE WASHOUT AREA SHALL BE PROVIDED. SEE DETAIL ON SHEET C-105.
7. ALL PAINT, SOLVENTS, PETROLEUM PRODUCTS AND PETROLEUM WASTE PRODUCTS, AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS, OR CARTONS) SHALL BE STORED ACCORDING TO BMPs. THE MATERIALS EXPOSED TO PRECIPITATION SHALL BE STORED IN WATERTIGHT, STRUCTURALLY SOUND, CLOSED CONTAINERS. CONTAINERS SHALL BE INSPECTED FOR LEAKS OR SPILLAGE DURING THE ONCE PER WEEK INSPECTION OF BMPs. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO SOIL, THE SOIL SHALL BE DUG UP AND PROPERLY DISPOSED OF. SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER OR PRODUCT DESIGNED FOR THAT PURPOSED AND DISPOSED OF AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. THESE MATERIALS WILL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH MoDNR REQUIREMENTS.
8. STATE LAW REQUIRES THE PARTY RESPONSIBLE FOR A PETROLEUM PRODUCT SPILL IN EXCESS OF 50 GALLONS TO REPORT THE SPILL TO MoDNR (573-634-2436) AS SOON AS PRACTICAL AFTER DISCOVERY. FEDERAL LAW REQUIRES THE RESPONSIBLE PARTY TO REPORT ANY RELEASE OF OIL IF IT REACHES OR THREATENS A SEWER, LAKE, CREEK, STREAM, RIVER, GROUNDWATER, WETLAND, OR AREA, LIKE A ROAD DITCH, THAT DRAINS INTO ONE OF THE ABOVE.
9. SUFFICIENT TEMPORARY TOILET FACILITIES TO SERVE THE NUMBER OF WORKERS ON THE SITE SHALL BE PROVIDED. THE FACILITIES SHALL BE SERVICED FREQUENTLY TO MAINTAIN A SANITARY CONDITIONS.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES THROUGHOUT THE PROJECT. ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
2. EROSION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY. THIS PLAN SHOULD BE USED AS A GUIDE AND REPRESENTS THE MINIMUM EROSION CONTROL DEVICES REQUIRED.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL EROSION & SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL EVENT.
5. THE CONTRACTOR SHALL PROVIDE ANY FURTHER EROSION CONTROL MEASURES IN ADDITION TO THOSE LISTED TO ENSURE THAT SILT WILL NOT LEAVE THE PROJECT CONFINES.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION & SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED WITH A HEALTHY STAND OF PERMANENT VEGETATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT COMPLETION OF CONSTRUCTION.
8. THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
9. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY STABILIZATION AS REQUIRED.
10. ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS, CITY OF SPRINGFIELD, MISSOURI.
11. REFERENCE DETAILS ON SHEET C-105 FOR TYPICAL EROSION CONTROL DEVICE INSTALLATION.
12. THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE STREETS OF DEPOSITED MUD AS FREQUENTLY AS NEEDED IN ORDER TO KEEP THEM USABLE AND TO CONTROL DUST.
13. CONTRACTOR IS RESPONSIBLE FOR PHASED INSTALLATION OF EROSION CONTROL BMP'S IN ORDER TO PREVENT SEDIMENT FROM BREACHING THE LIMITS OF DISTURBANCE.

EROSION CONTROL MATTING NOTE:

- EROSION CONTROL MATTING MAY BE DELETED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
- SOD IS UTILIZED AS PERMANENT STABILIZATION (COORD. WITH THE PLANTING PLANS)
 - LOCATIONS ARE NOT DORMANT FROM EARTHWORK ACTIVITIES FOR 14 OR MORE DAYS
 - FINAL GRADING HAS NOT BEEN COMPLETED



10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

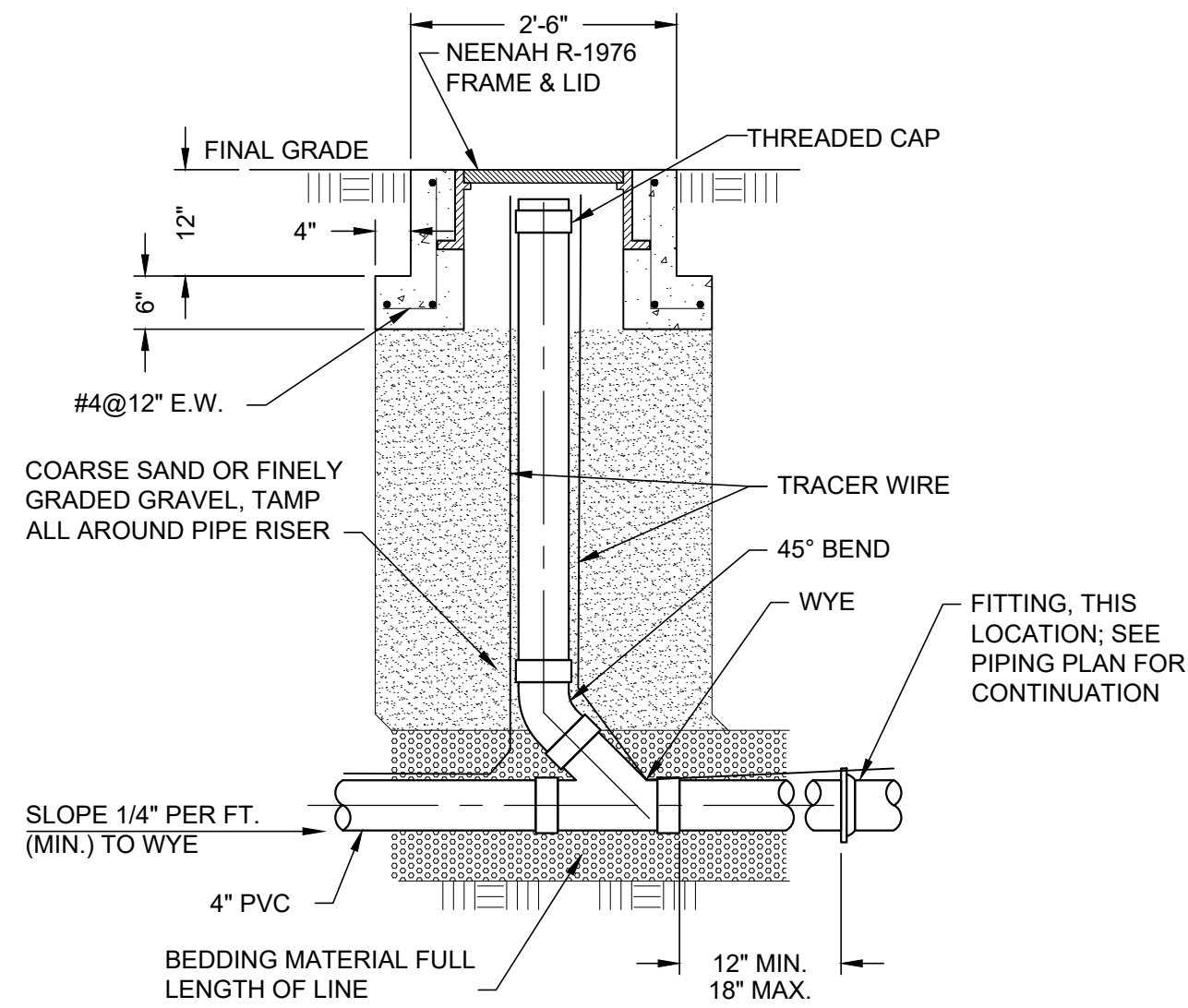
CAD DWG FILE: C-104.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

EROSION CONTROL
PLAN
LOOP #4

SHEET NUMBER:

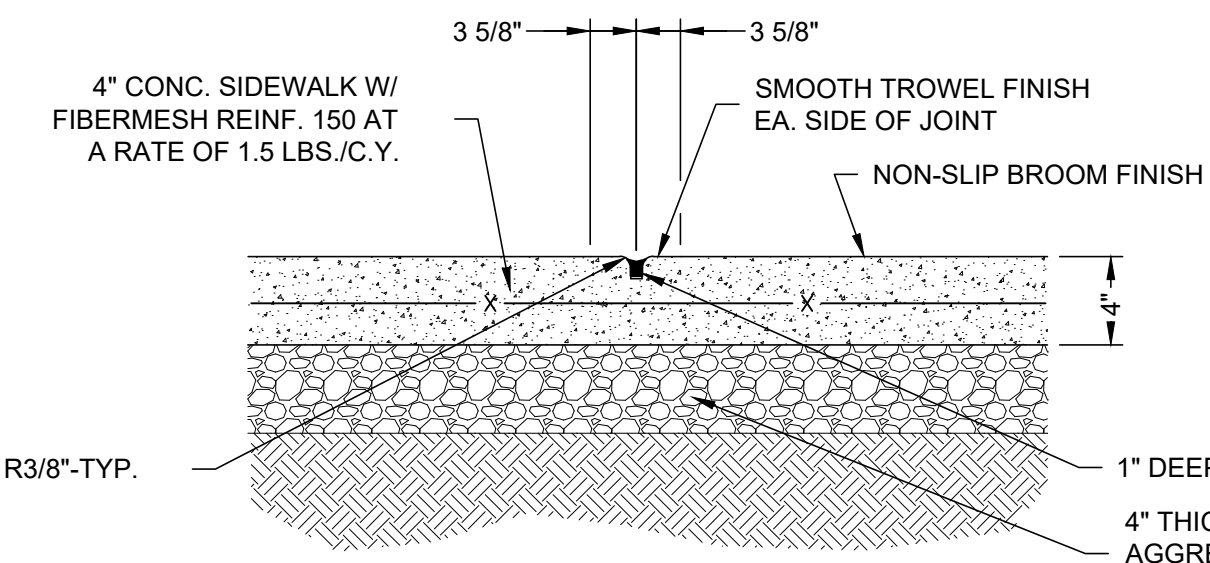
C-104



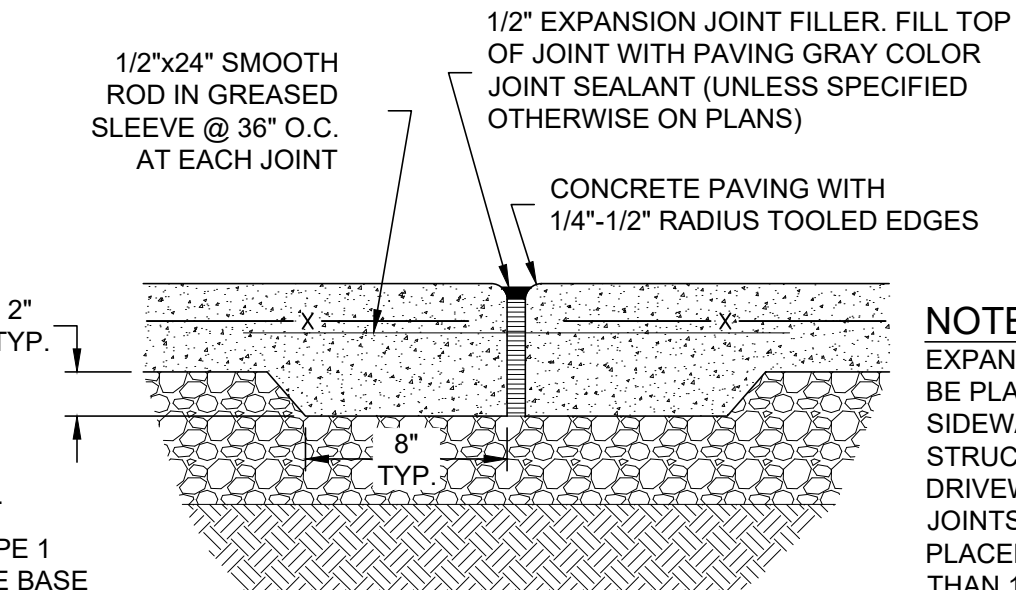
1 CLEANOUT DETAIL
SCALE: NOT TO SCALE

NOTES:

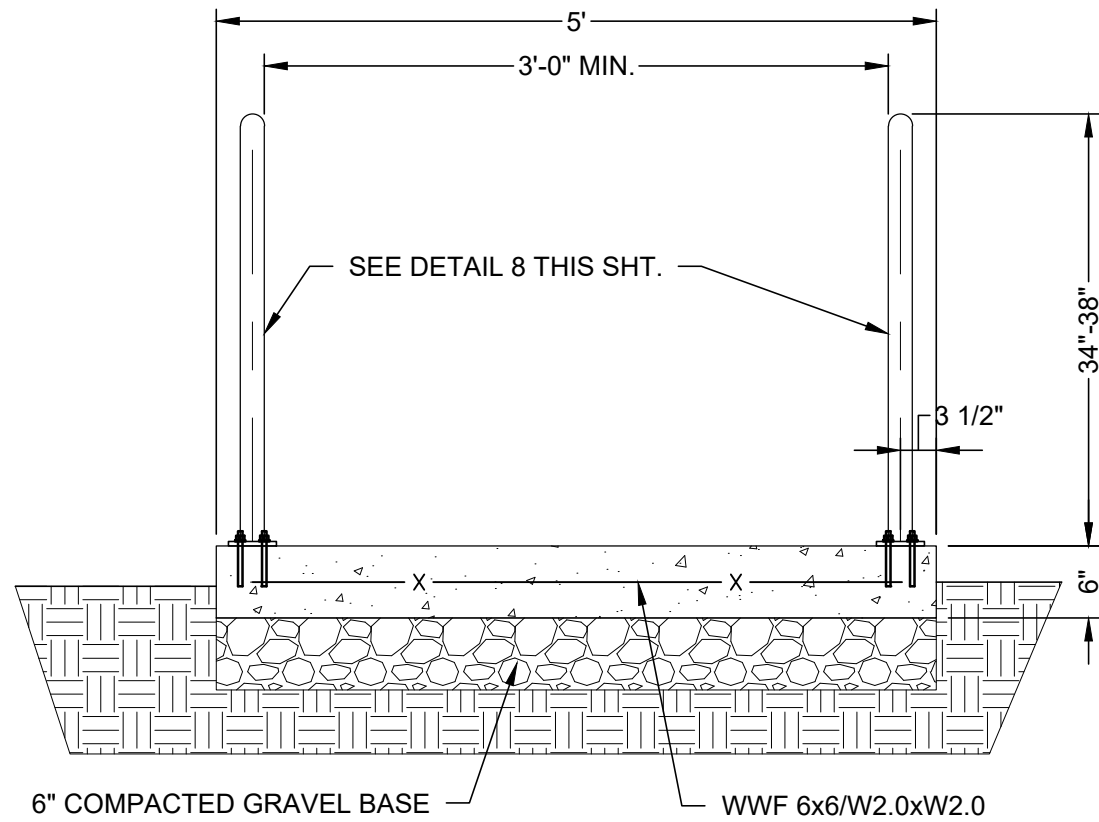
1. EVENLY SPACE TOOLED JOINTS EQUAL TO WIDTH OF SIDEWALKS UP TO 12'-0".



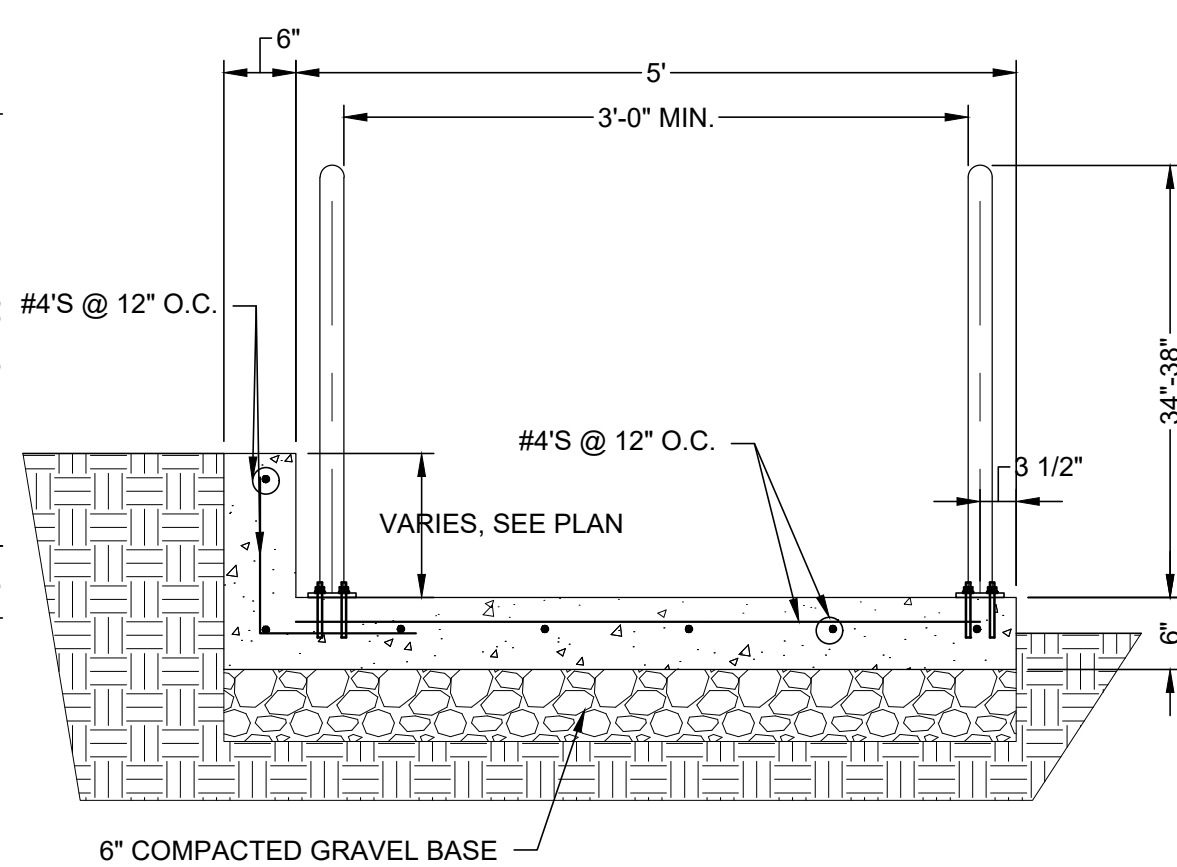
SIDEWALK & TOOLED CONTROL JOINT DETAIL



7 HANDICAP RAMP HANDRAIL DETAIL
SCALE: NOT TO SCALE



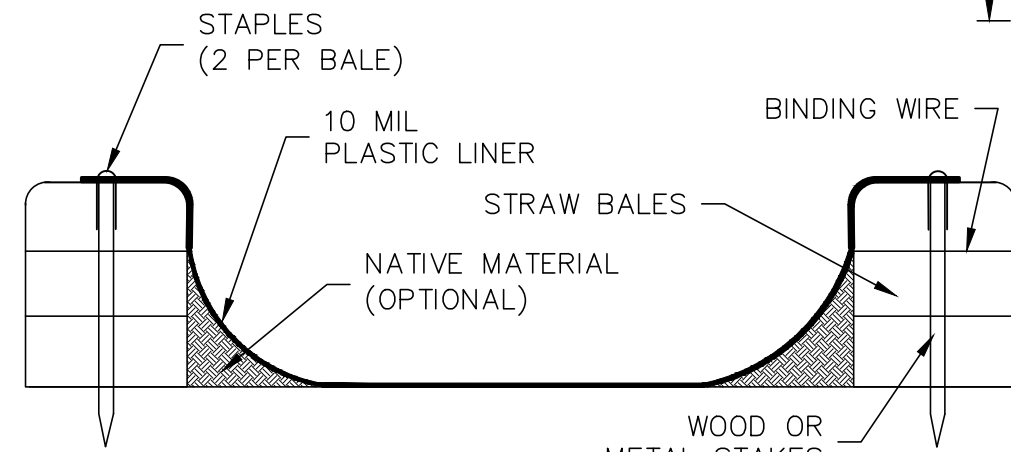
8 HANDICAP SIDEWALK SECTION
SCALE: NOT TO SCALE



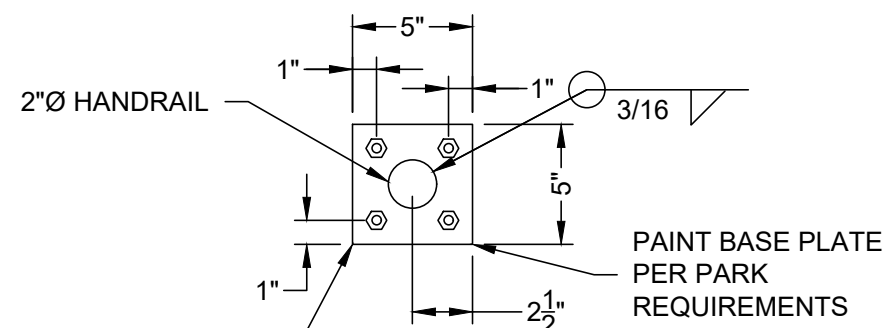
9 HANDICAP SIDEWALK SECTION
SCALE: NOT TO SCALE

NOTES:

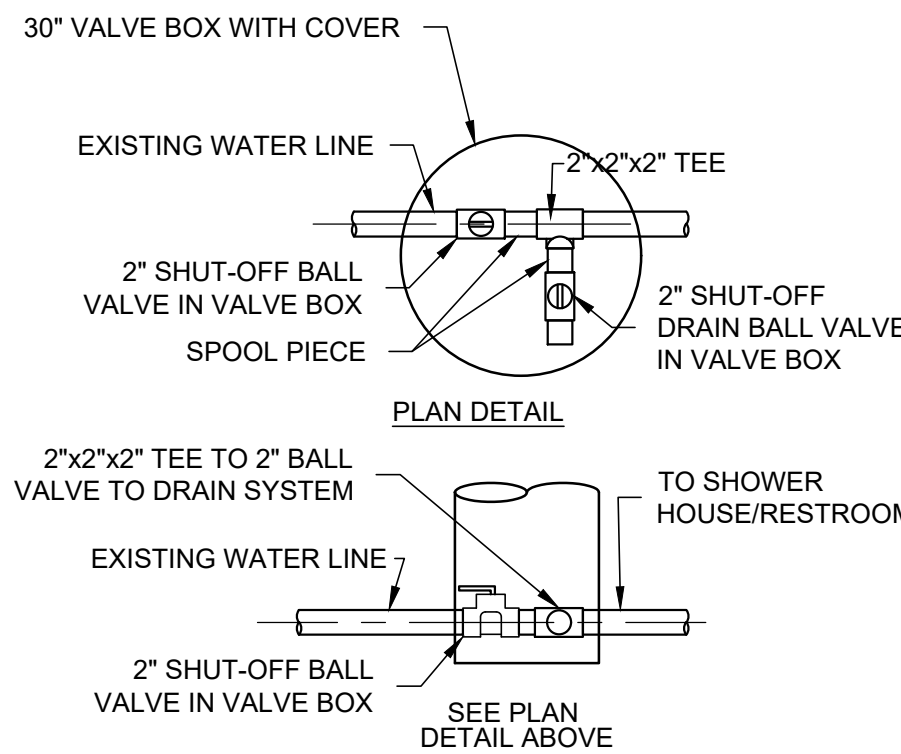
1. ACTUAL LAYOUT LOCATIONS & NUMBER OF WASH-OUTS TO BE DETERMINED BY CONTRACTOR IN FIELD.
2. THE CONCRETE WASH-OUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. WASH-OUTS SHALL BE LOCATED A MINIMUM OF 50 FT. FROM STORM DRAINS, OPEN DRAINAGE FACILITIES AND WATER COURSES. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE.
4. INSTALL BEFORE THE START OF ANY CONCRETE ACTIVITIES OR DELIVERIES.
5. INSPECT EVERY WEEK AND AFTER 1/2 STORM EVENT. REMOVE AND DISPOSE OF HARDENED CONCRETE AND RETURN THE FACILITY TO A FUNCTIONAL CONDITION. WASH-OUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASH-OUT IS 75% FULL.
6. WHEN TEMPORARY CONCRETE WASH-OUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASH-OUT FACILITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE WASH-OUT SHALL BE BACKFILLED AND REPAIRED.



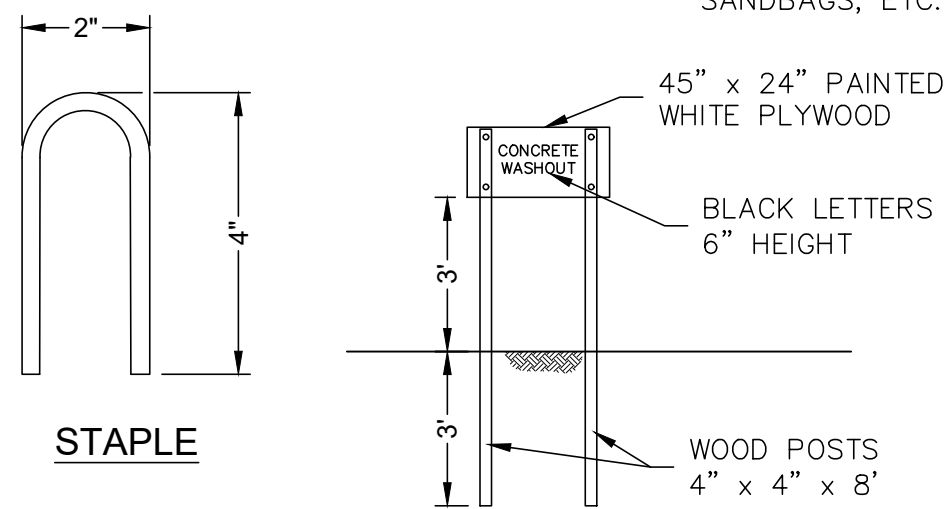
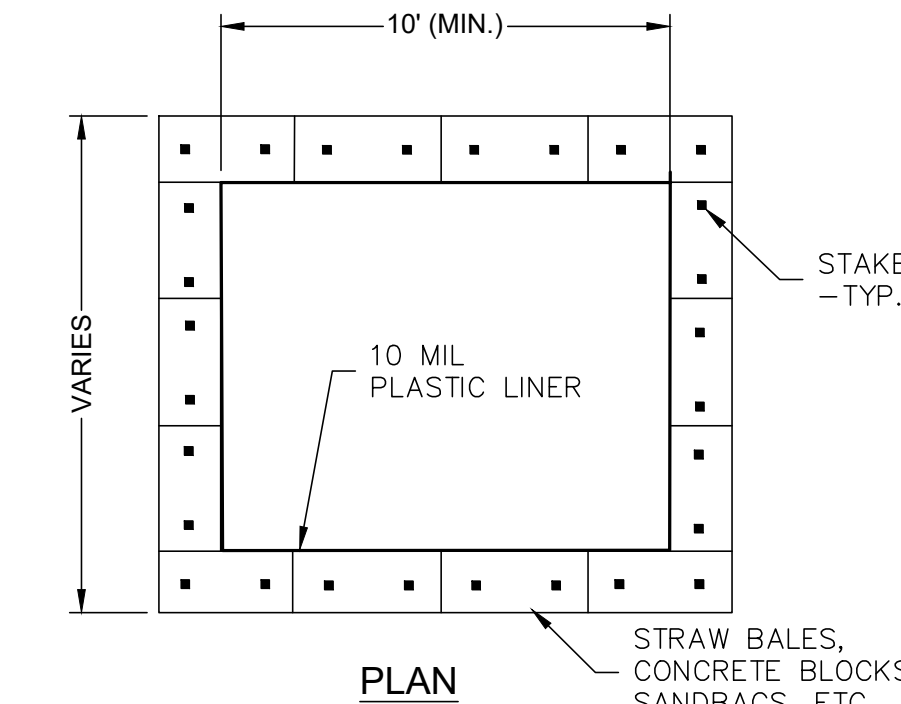
13 CONCRETE WASHOUT DETAIL
SCALE: NOT TO SCALE



10 HANDRAIL BASE PLATE DETAIL
SCALE: 1" = 1'



12 BALL VALVE INSTALLATION
SCALE: NOT TO SCALE

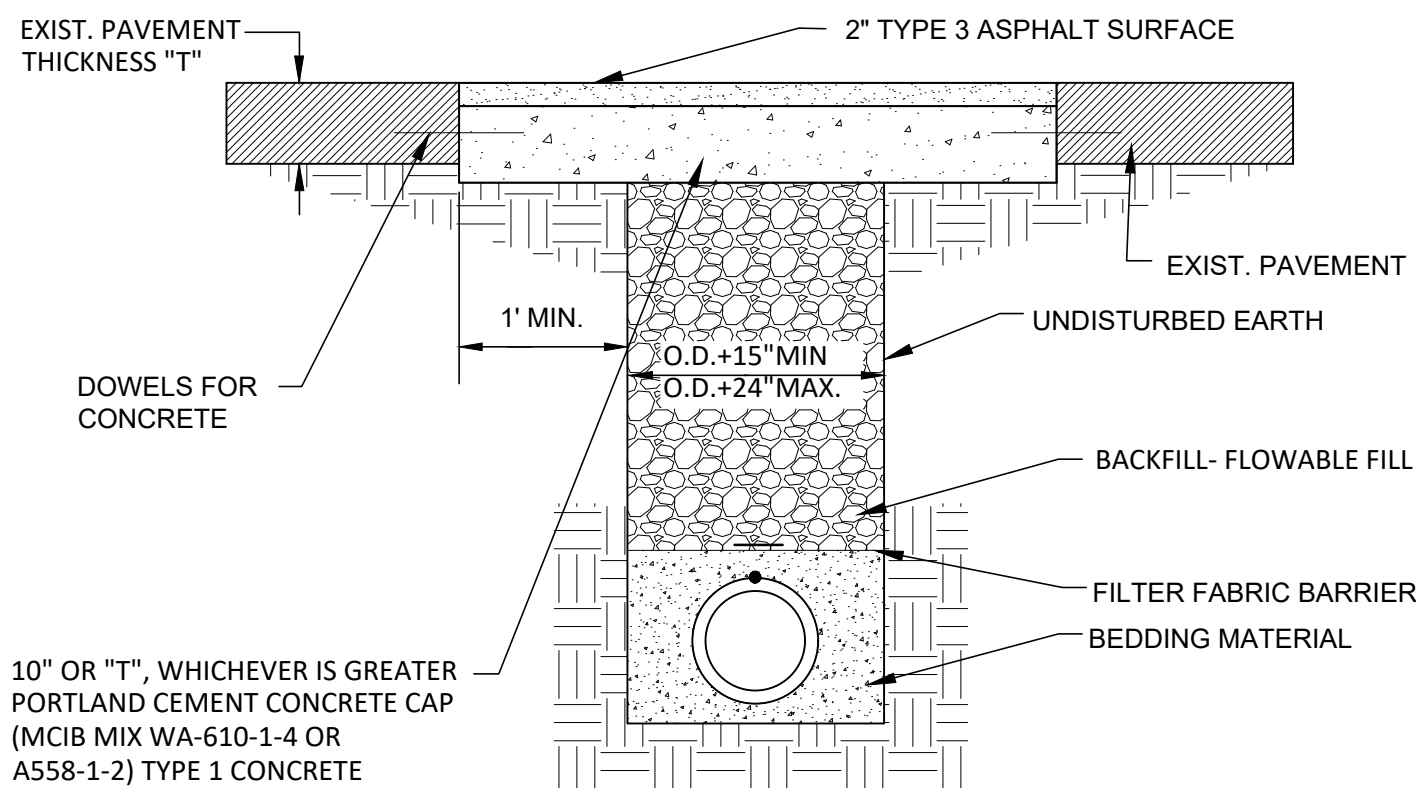


SECTION

CONCRETE WASHOUT DETAIL

TRENCH UNDER PAVEMENT NOTES:

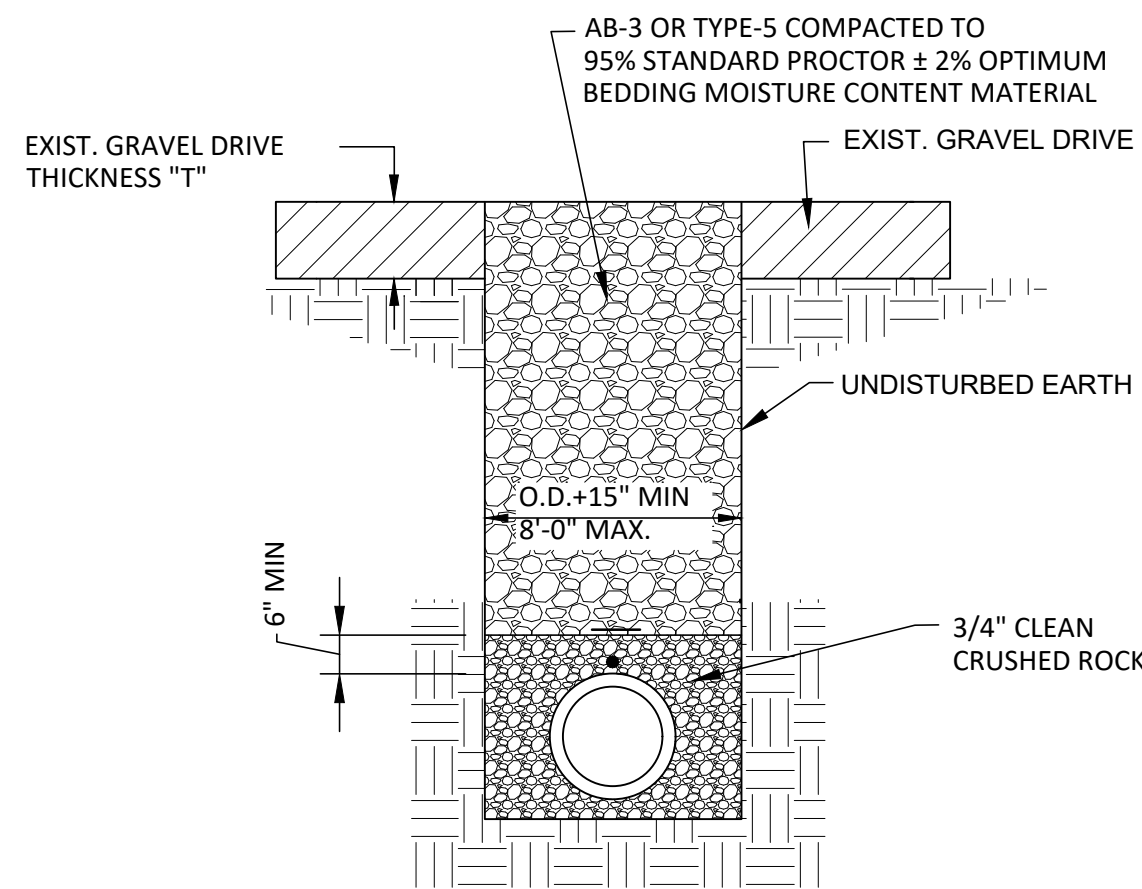
1. NEW SURFACING SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACE AND SHALL MATCH THE SLOPE AND CONTOURS OF THE SURROUNDING PAVEMENT.
2. DRIVEWAY PAVEMENT SHALL BE REMOVED TWELVE (12) INCHES BEYOND THE DISTURBED AREA. IF EXCAVATION IS WITHIN THREE (3) FEET OF AN EXIST. JOINT OR CUT, THE SURFACE SHALL BE EXTENDED TO THE JOINT.
3. EXIST. PAVING TO BE SAW CUT.
4. ROCK BACKFILL SHALL BE AB-3 OR TYPE-5. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR $\pm$ 2% OPTIMUM MOISTURE CONTENT.



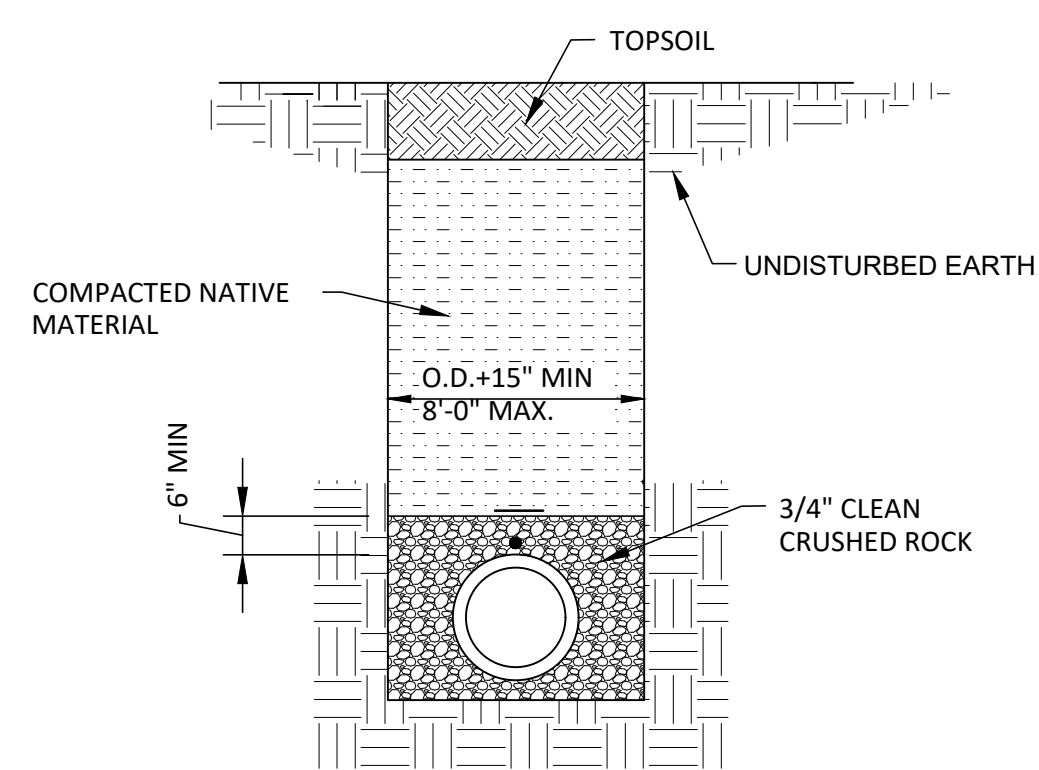
2 STREET CUT RESTORATION
SCALE: NOT TO SCALE

TRENCH UNDER GRAVEL DRIVE/SHOULDER NOTES:

1. NEW SURFACING SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACE AND SHALL MATCH THE SLOPE AND CONTOURS OF THE SURROUNDING PAVEMENT.
2. ROCK BACKFILL SHALL BE AB-3 OR TYPE-5. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR $\pm$ 2% OPTIMUM MOISTURE CONTENT.
3. IN GRASS SHOULDER AREAS, 12" OF TOPSOIL SHALL BE PLACED.



3 TRENCH UNDER GRAVEL DRIVE & SHOULDER DETAIL
SCALE: NOT TO SCALE



4 TRENCH UNDER GRASSY AREAS DETAIL
SCALE: NOT TO SCALE



10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SA;EM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: C-105.dwg
DRAWN BY: TH
CHECKED BY: KS
DESIGNED BY: KS

SHEET TITLE:
CIVIL DETAILS

SHEET NUMBER:

C-105

11 OF 71 SHEETS
10/24/2025

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson®

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

COMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE: S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

FOUNDATION PLAN

SHEET NUMBER:

S-101

12 OF 71 SHEETS
10/24/2025

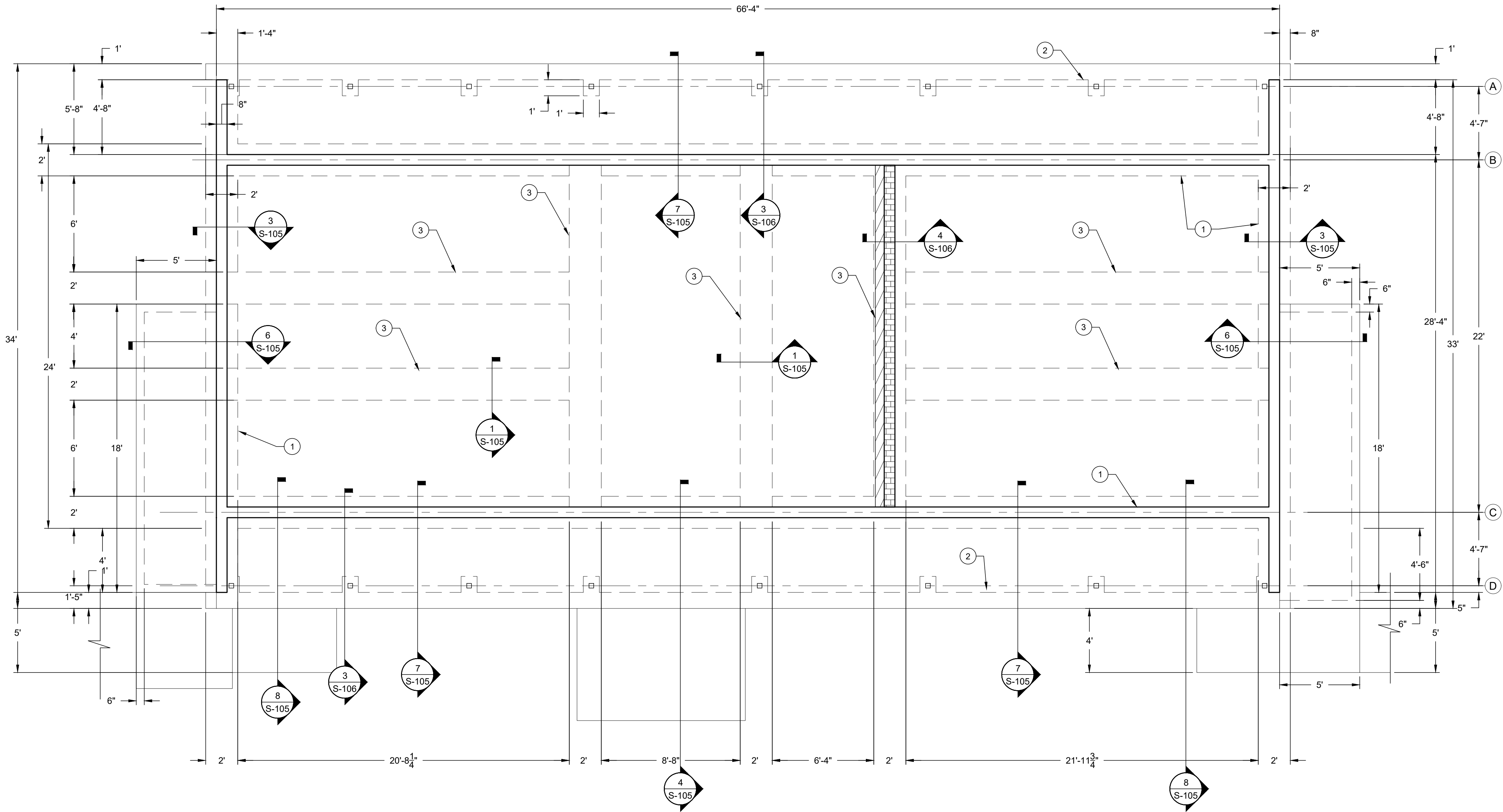
NOTES:

1. CONTINUOUS 1'x2' SPREAD FOOTING WITH 8" POURED IN PLACE CONCRETE STEM WALL. SEE SECTION 3/S-105.
2. CONTINUOUS TURNED DOWN SLAB FOOTING. SEE SECTION 4/S-105.
3. THICKENED SLAB UNDER CMU WALL. SEE DETAIL 1/S-105.

WALL LEGEND

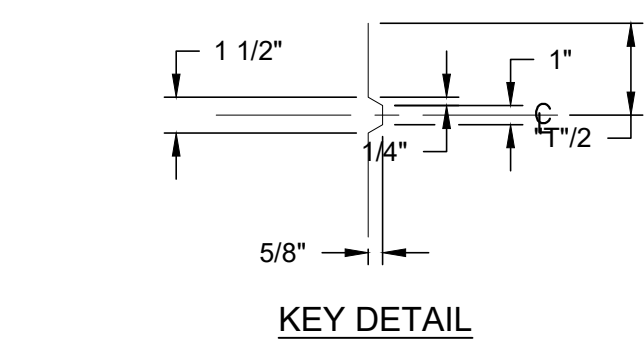
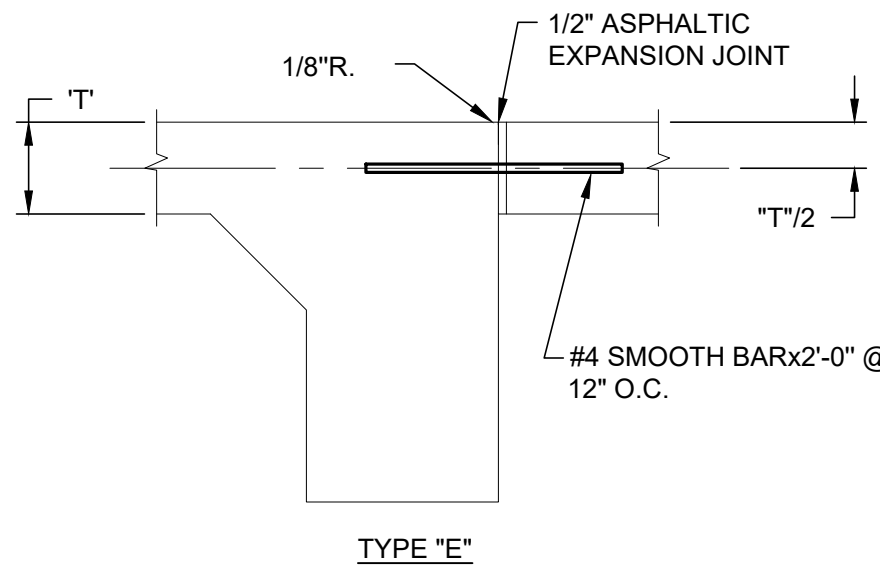
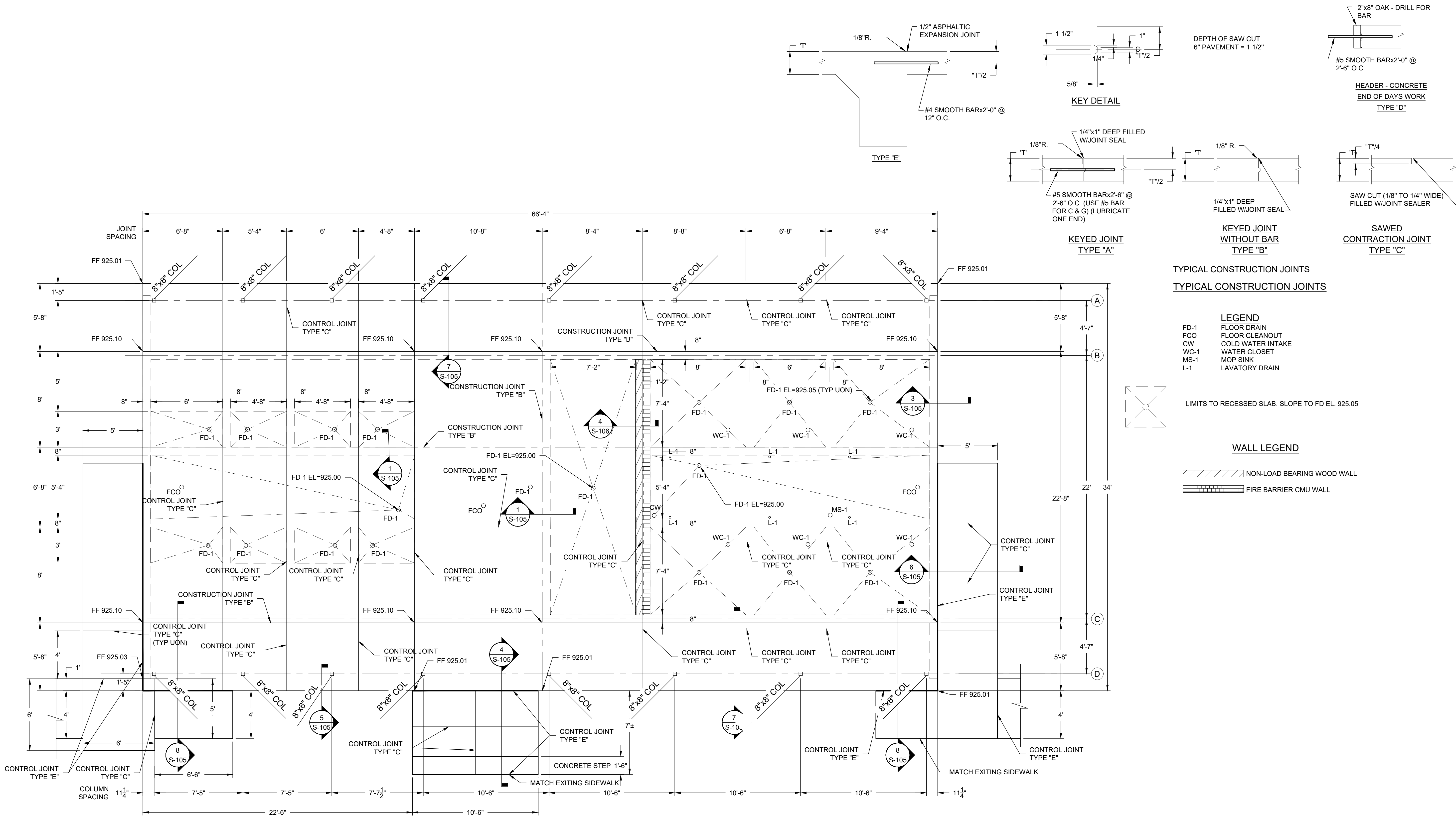
NON-LOAD BEARING WOOD WALL

FIRE BARRIER CMU WALL

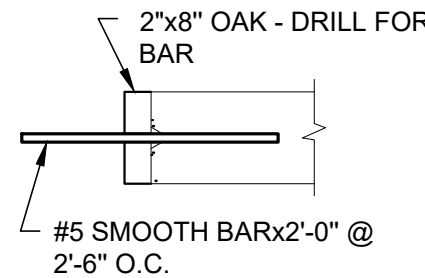


1 SHOWER HOUSE/BATHROOM FOUNDATION PLAN
SCALE: 1/4"=1'-0"

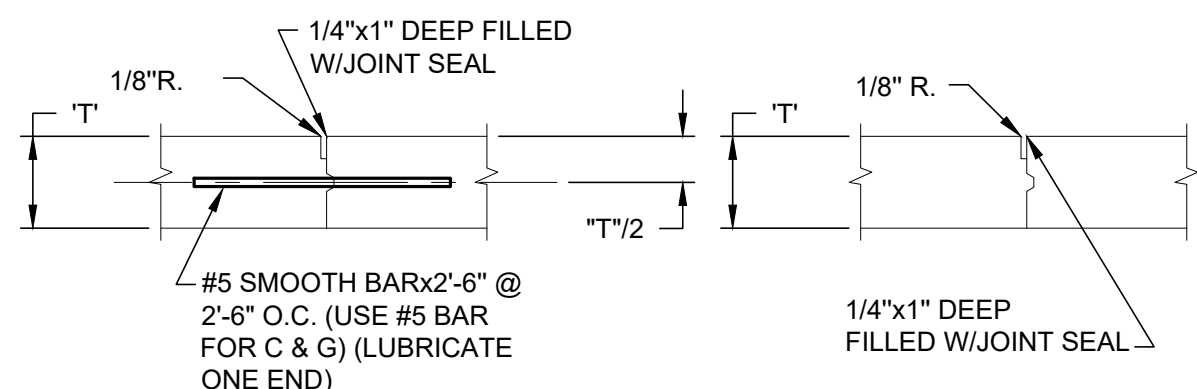




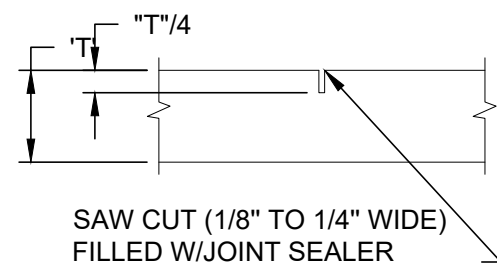
DEPTH OF SAW CUT
6" PAVEMENT = 1 1/2"



HEADER - CONCRETE
END OF DAYS WORK
TYPE "D"



KEYED JOINT
WITHOUT BAR
TYPE "B"



SAWED
CONTRACTION JOINT
TYPE "C"

TYPICAL CONSTRUCTION JOINTS
TYPICAL CONSTRUCTION JOINTS

LEGEND
FD-1 FLOOR DRAIN
FCO FLOOR CLEANOUT
CW COLD WATER INTAKE
WC-1 WATER CLOSET
MS-1 MOP SINK
L-1 LAVATORY DRAIN

LIMITS TO RECESSED SLAB. SLOPE TO FD EL. 925.05

WALL LEGEND

NON-LOAD BEARING WOOD WALL
FIRE BARRIER CMU WALL

1 SHOWER HOUSE/BATHROOM SLAB AND JOINT PLAN
SCALE: 1/4"=1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE RELACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE: S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

CONCRETE SLAB
AND JOINT PLAN

SHEET NUMBER:

S-102

13 OF 71 SHEETS
10/24/2025

WALL LEGEND

- INDICATES CMU WALLS.
- NON-LOAD BEARING WOOD WALL
- FIRE BARRIER CMU WALL

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE:S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

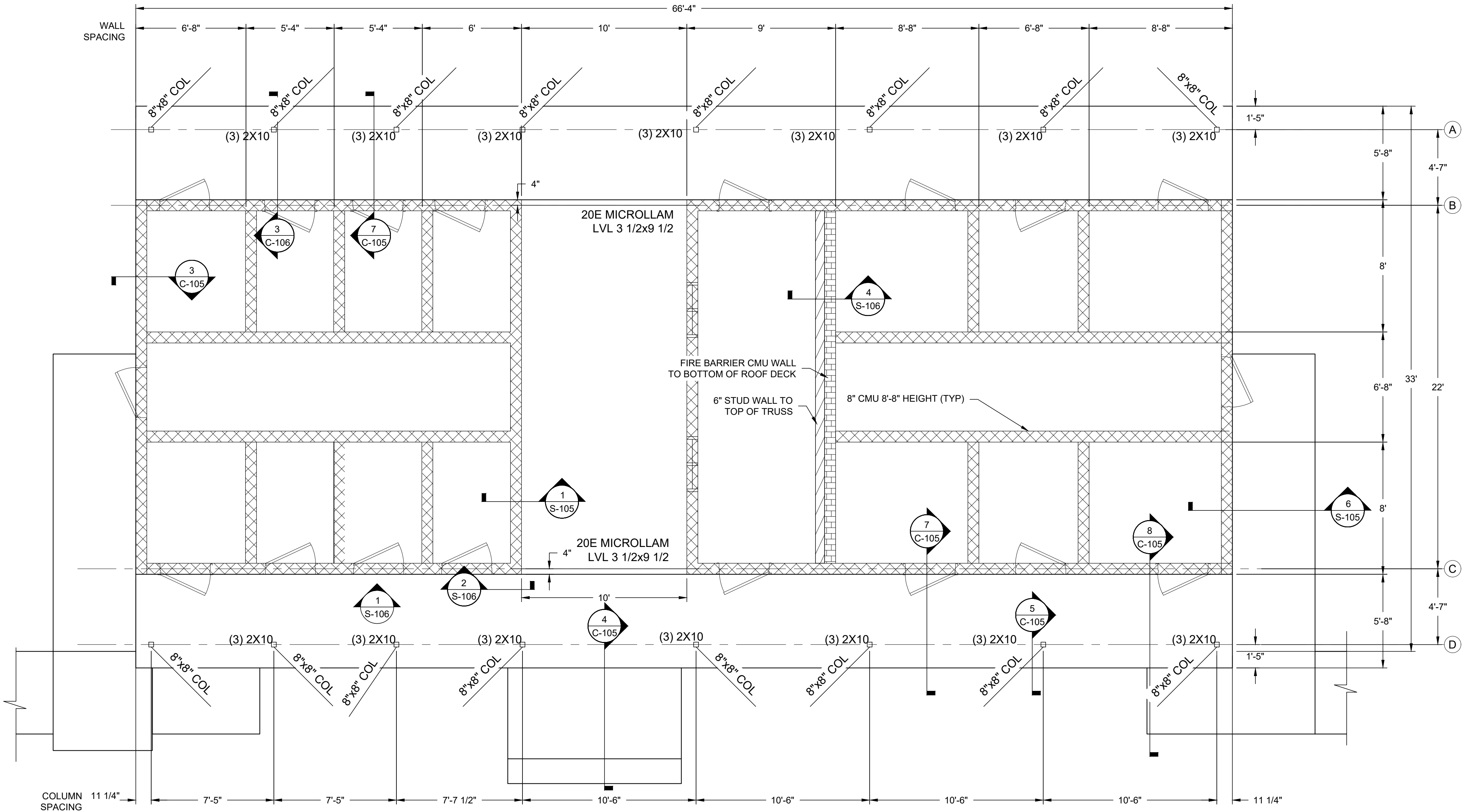
SHEET TITLE:

FRAMING PLAN

SHEET NUMBER:

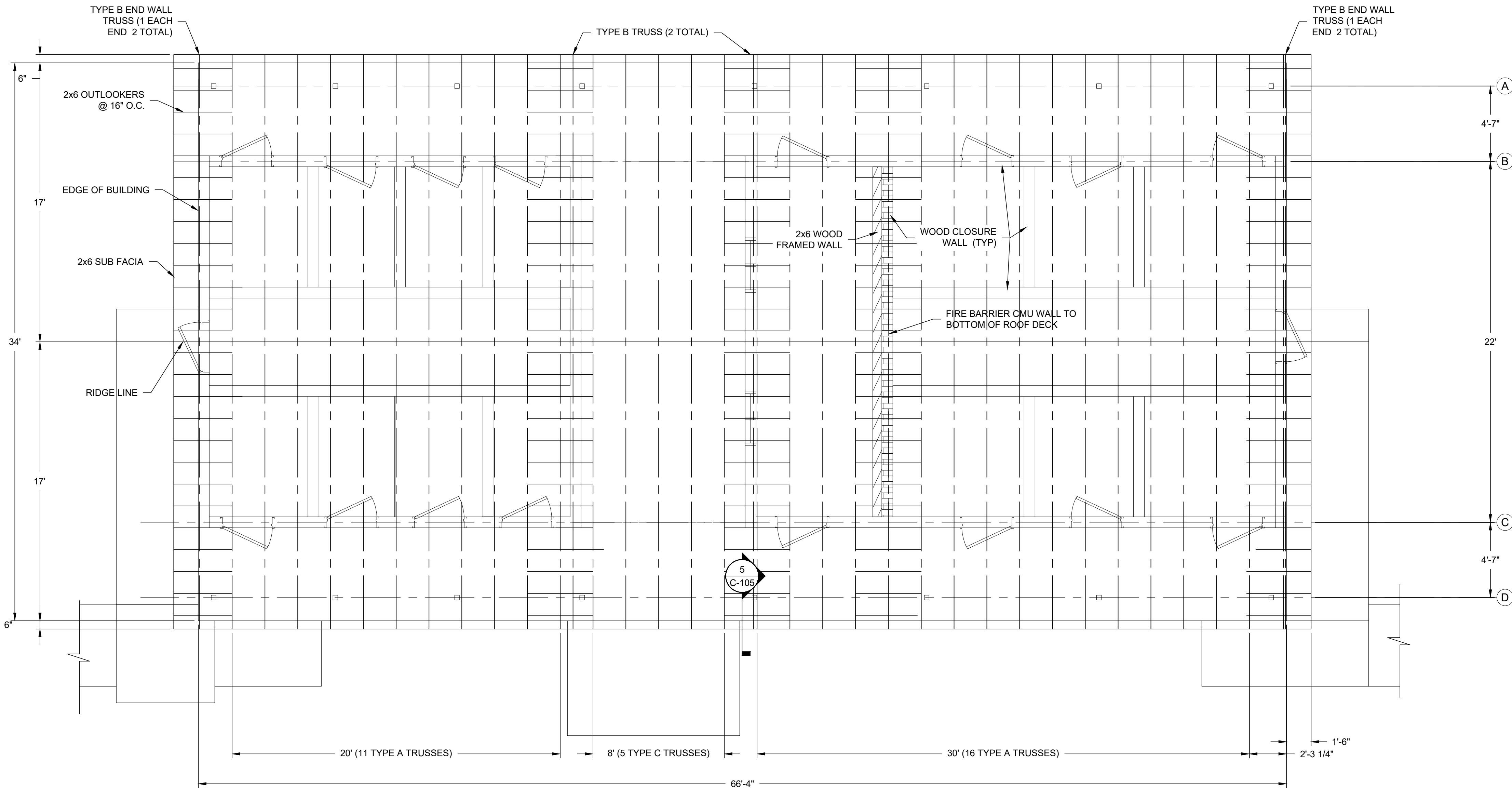
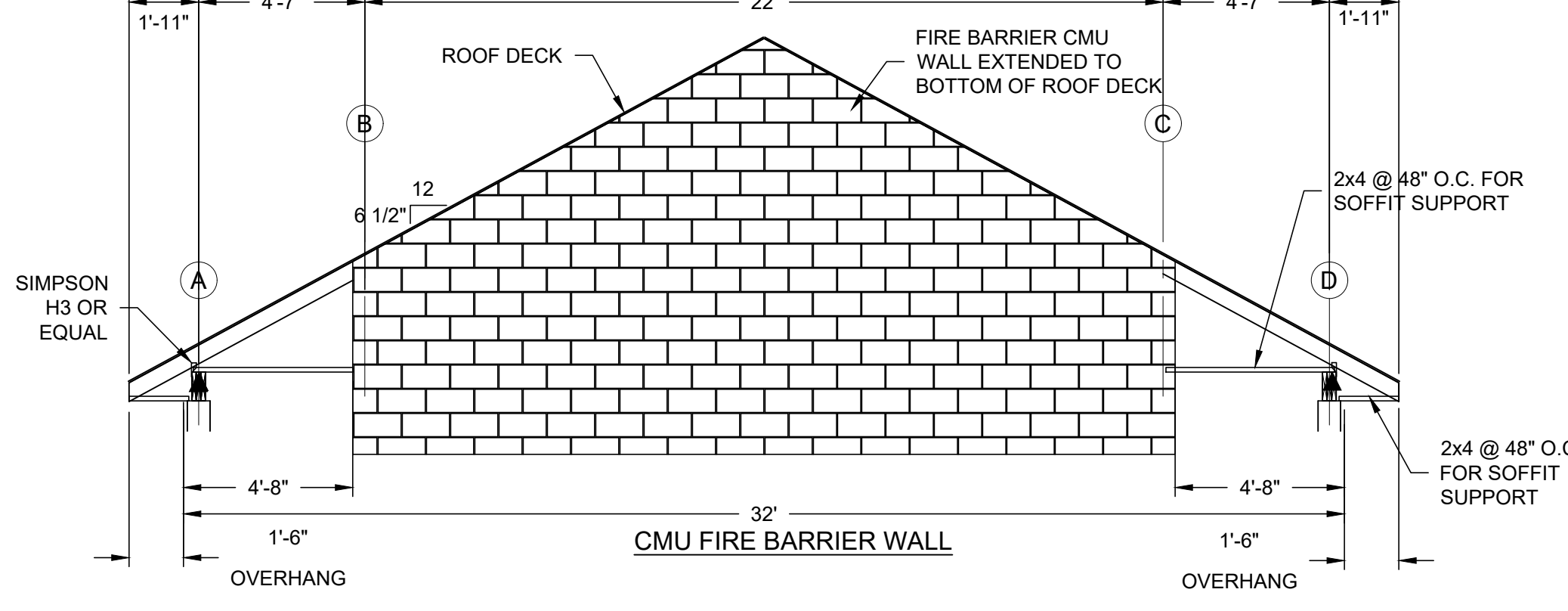
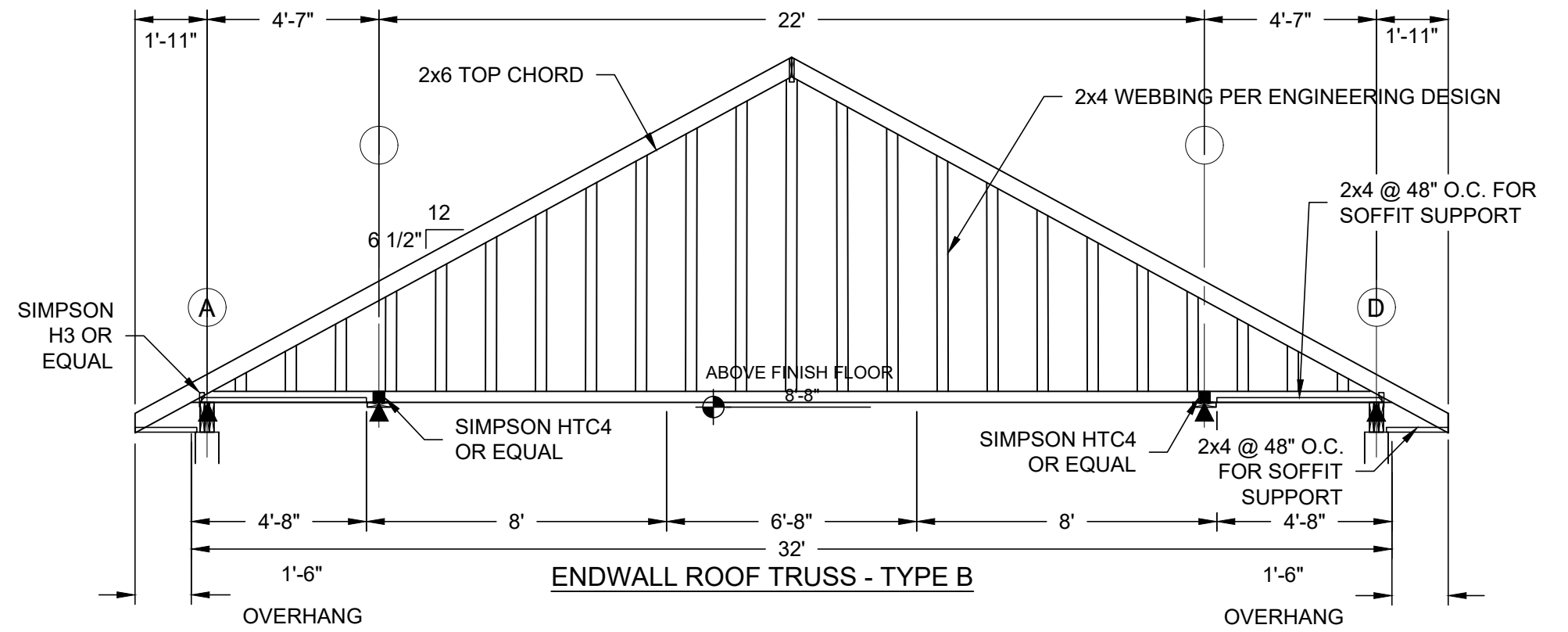
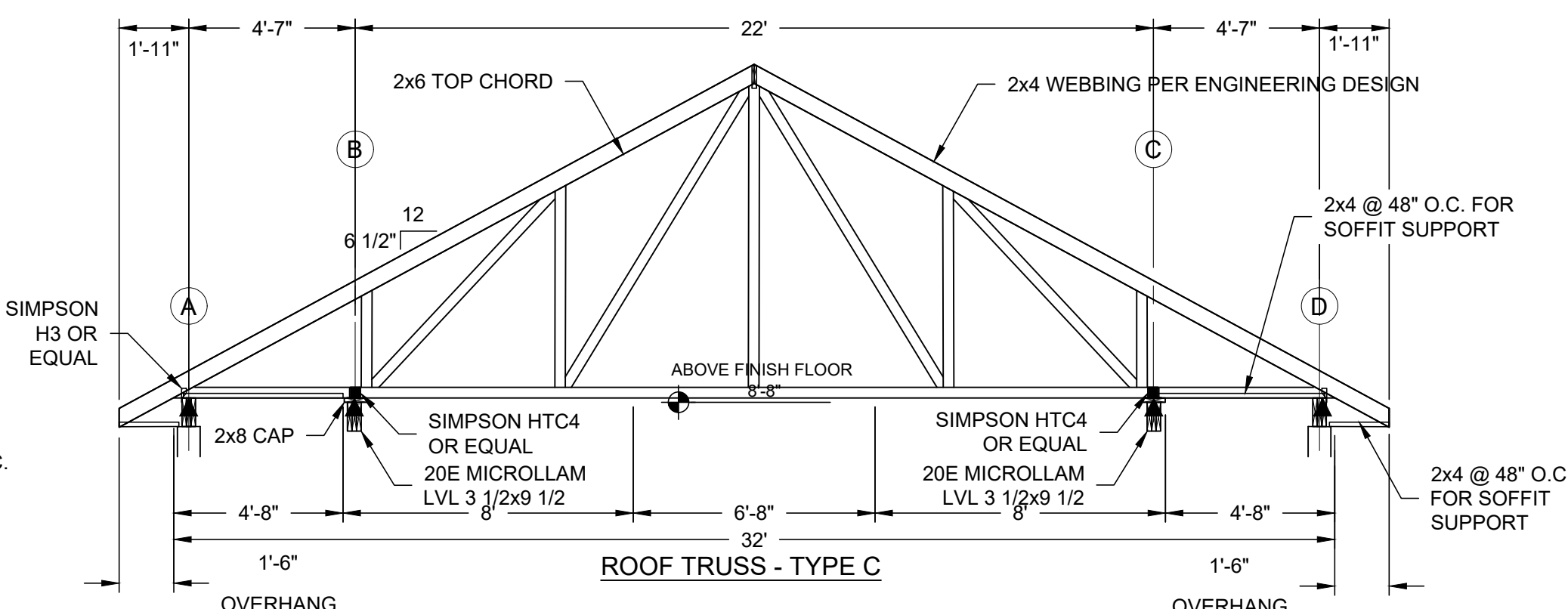
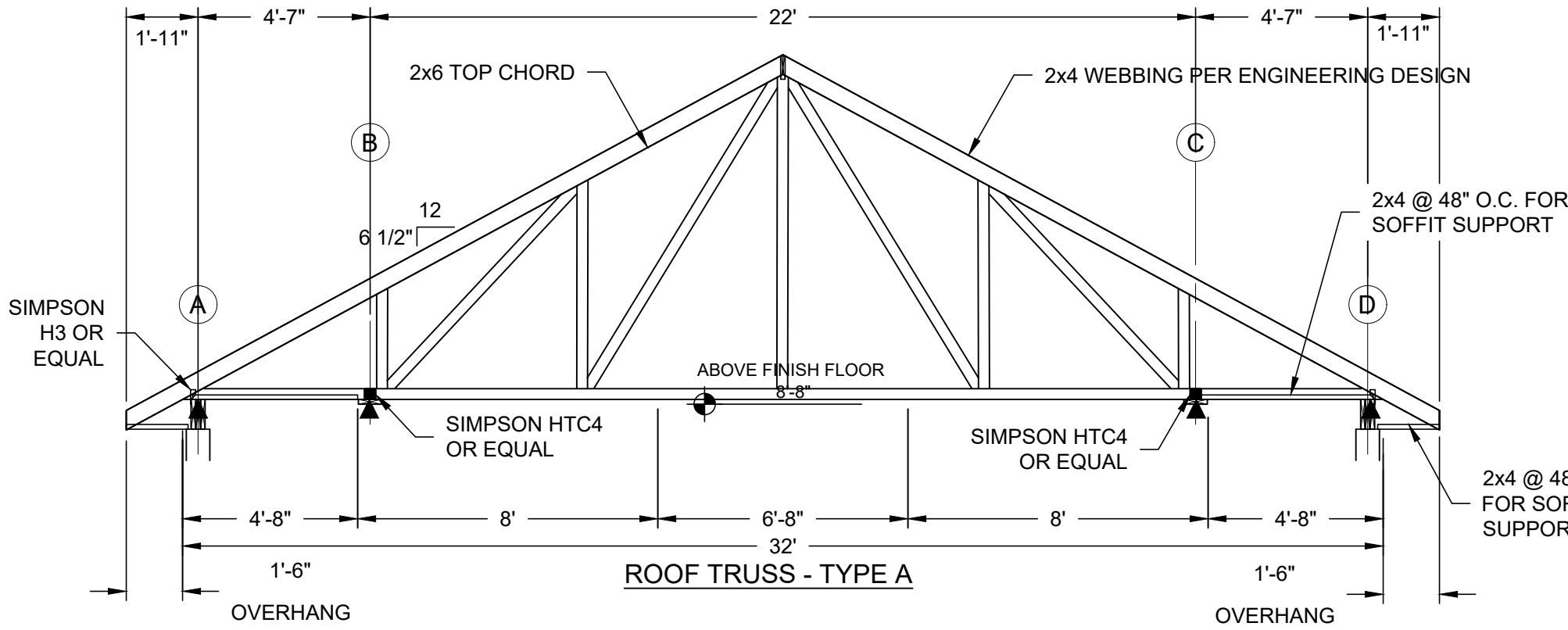
S-103

14 OF 71 SHEETS
10/24/2025



1 SHOWER HOUSE/BATHROOM FRAMING PLAN
SCALE: 1/4"=1'-0"





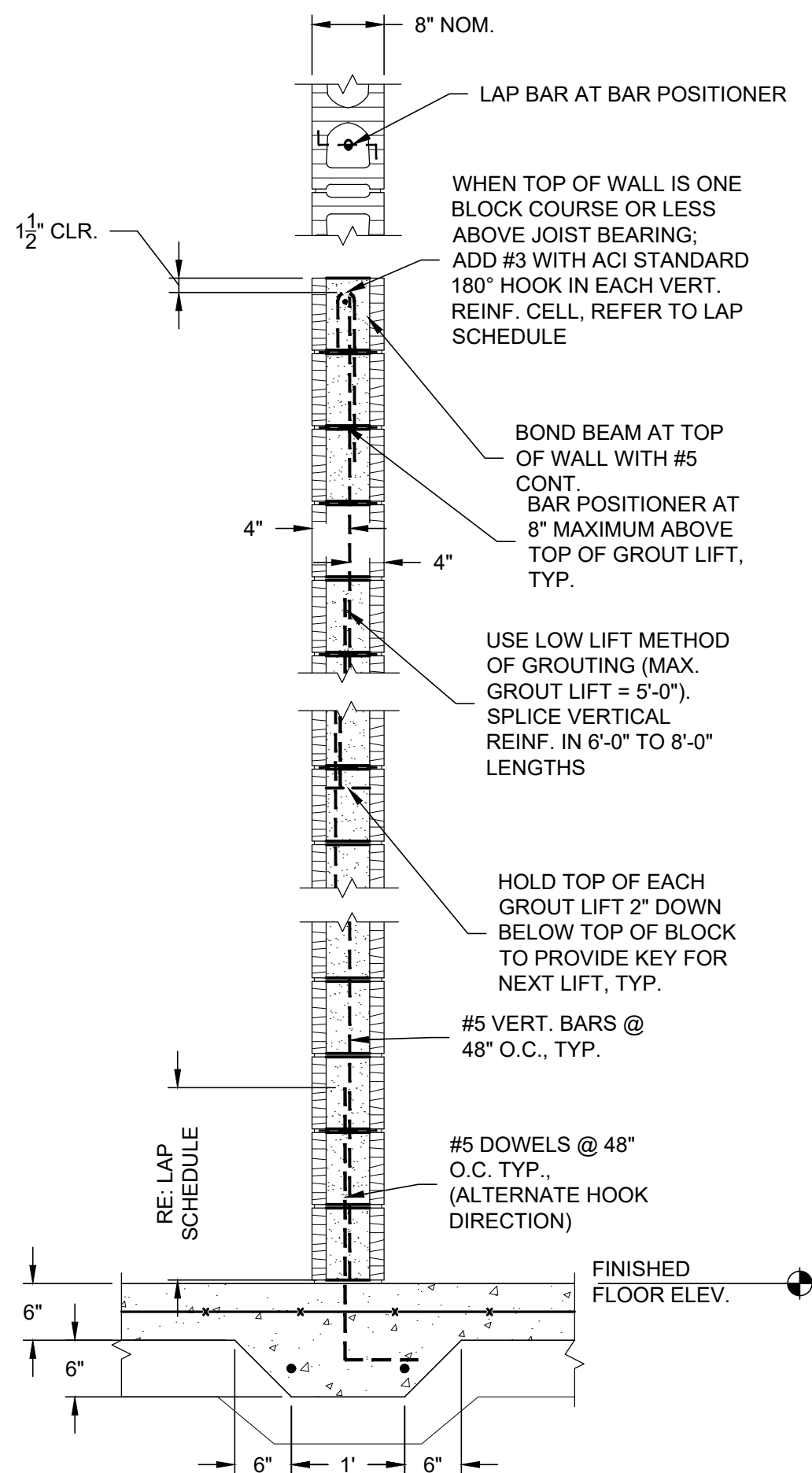
TRUSS REQUIREMENTS:
TOP CHORD: LIVE LOAD 30 PSF
DEAD LOAD 10 PSF
BOTTOM CHORD: DEAD LOAD 10 PSF

WOOD TRUSSES SHALL BE FABRICATED BY A MANUFACTURER HAVING A MINIMUM OF TEN (10) YEARS EXPERIENCE IN ENGINEERING AND MANUFACTURING PRE-FABRICATED WOOD TRUSSES. TRUSS MANUFACTURER SHALL PROVIDE MANUFACTURER'S MATERIAL SPECIFICATIONS AND CERTIFY THEIR COMPLIANCE WITH THESE PROJECT REQUIREMENTS. ENGINEERING SHALL BE PERFORMED BY AN ENGINEER CURRENTLY LICENSED BY THE STATE OF MISSOURI. PRIOR TO MANUFACTURE, SUBMIT SHOP DRAWINGS AND ENGINEERING DATA SEALED BY THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS. TRUSSES SHALL BE CONSTRUCTED TO ALL ENGINEERING REQUIREMENTS. UPPER AND LOWER CHORD MEMBERS SHALL NOT BE LESS THAN 2x6. 2x2 WEB MEMBERS WILL NOT BE ALLOWED. 'W' STYLE CONFIGURATION SHOWN. OTHER CONFIGURATIONS MAY BE ACCEPTABLE.

LEGEND
▲ LOAD BEARING
WALL LEGEND
INDICATES NON-LOAD BEARING WALLS.
FIRE BARRIER CMU WALL

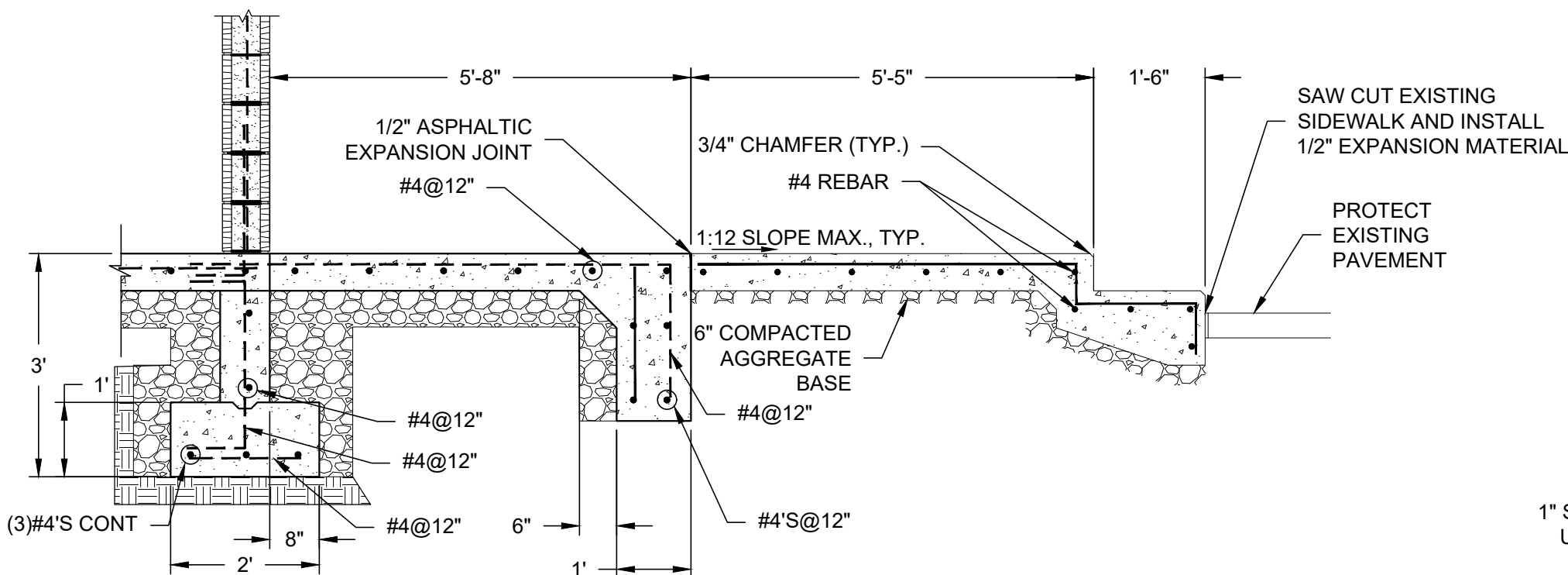
NOTES:

1. GROUT SOLID ALL CELLS WITH REINFORCING.
2. USE BOND BEAM BLOCKS WITH OPEN BOTTOMS ONLY AT BOND BEAM LOCATIONS. DO NOT USE THROUGH-TYPE BLOCKS AT BOND BEAMS.
3. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS.
4. ALL MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. REINFORCED BOND BEAMS WITH (2)-#5 CONTINUOUS (TYP.)
6. HORIZONTAL JOINT REINFORCING SHALL BE GALVANIZED LADDER TYPE SPACED AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE AND IN PARAPETS. SPLICE JOINT REINFORCING 12" MIN.. DO NOT CONTINUE JOINT REINFORCING THROUGH MASONRY CONTROL JOINTS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS.

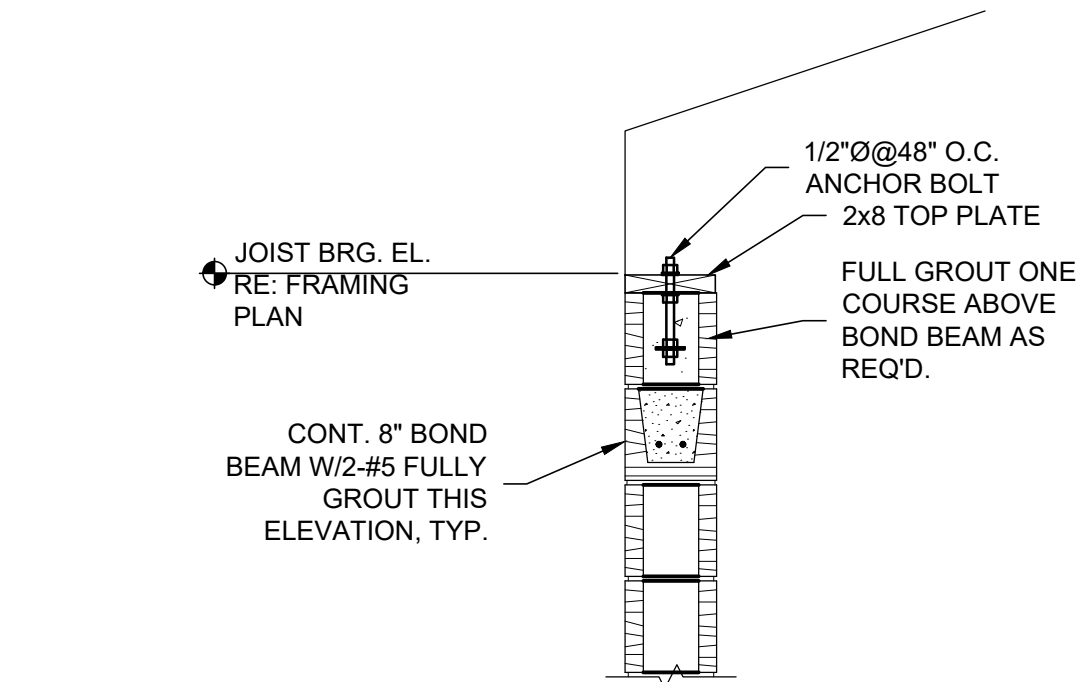


NOTE: GROUT SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS.

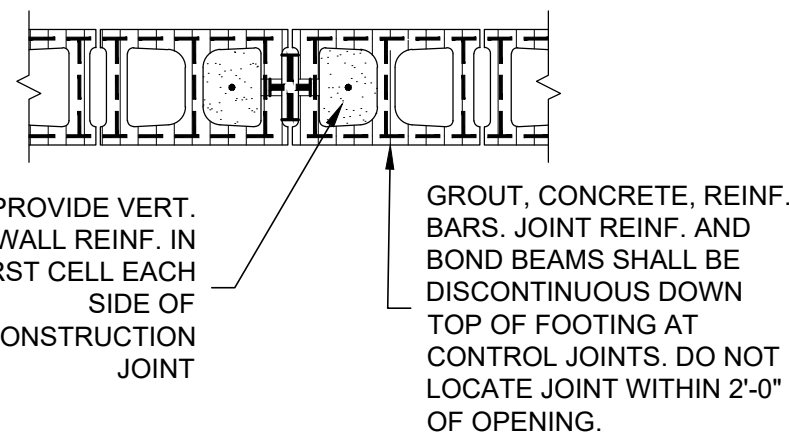
1 CMU WALL WALL DETAILS
SCALE: SCALE: 3/4"=1'-0"



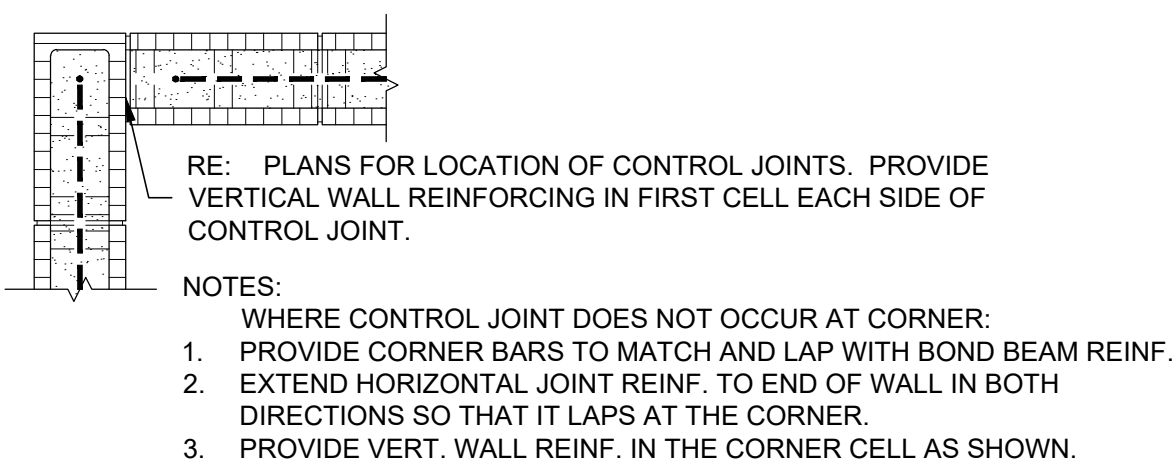
4 SECTION
SCALE: 1/2" = 1'-0"



BOND BEAM AT ROOF LEVEL



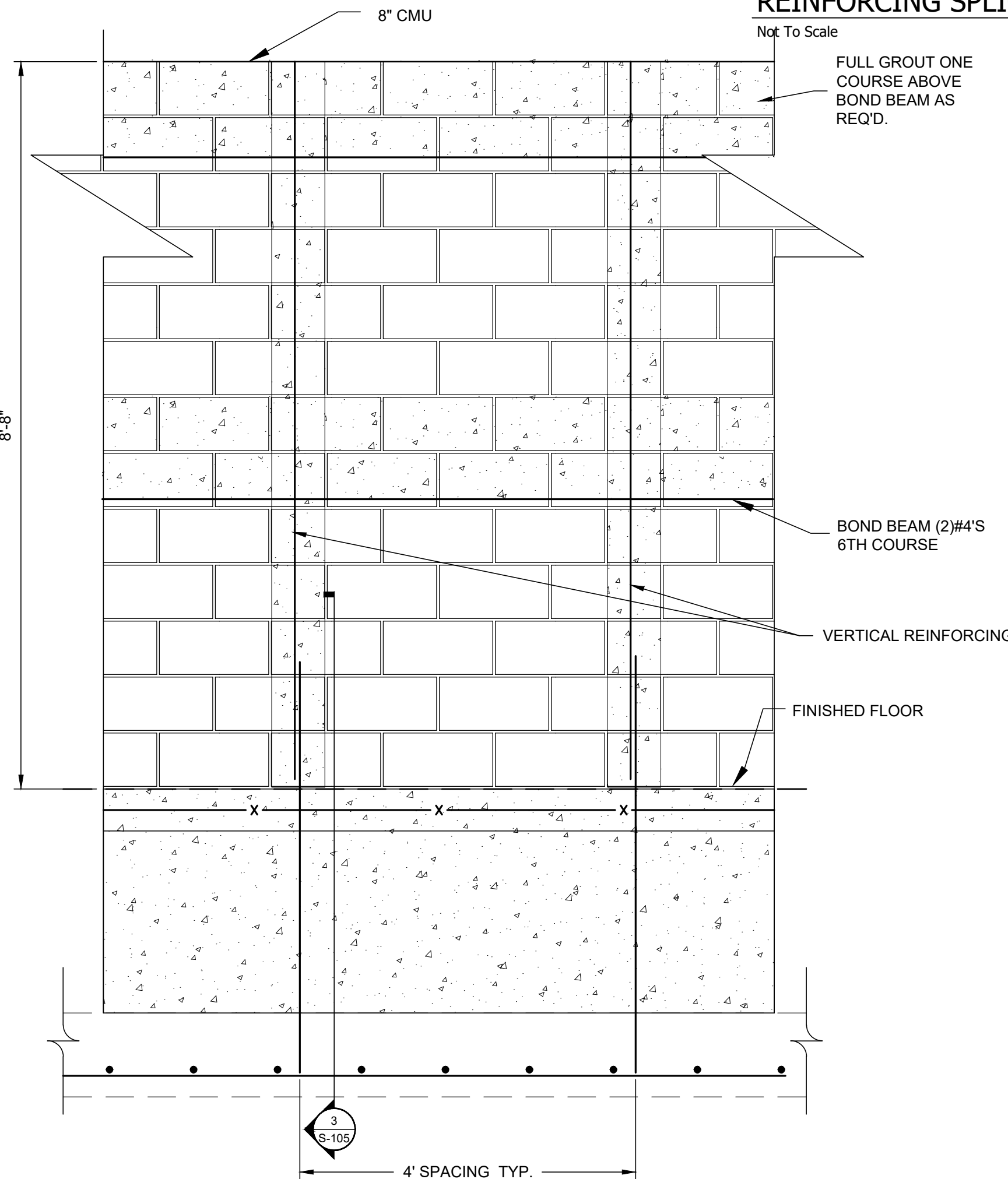
EXPANSION/CONTROL JOINT DETAIL



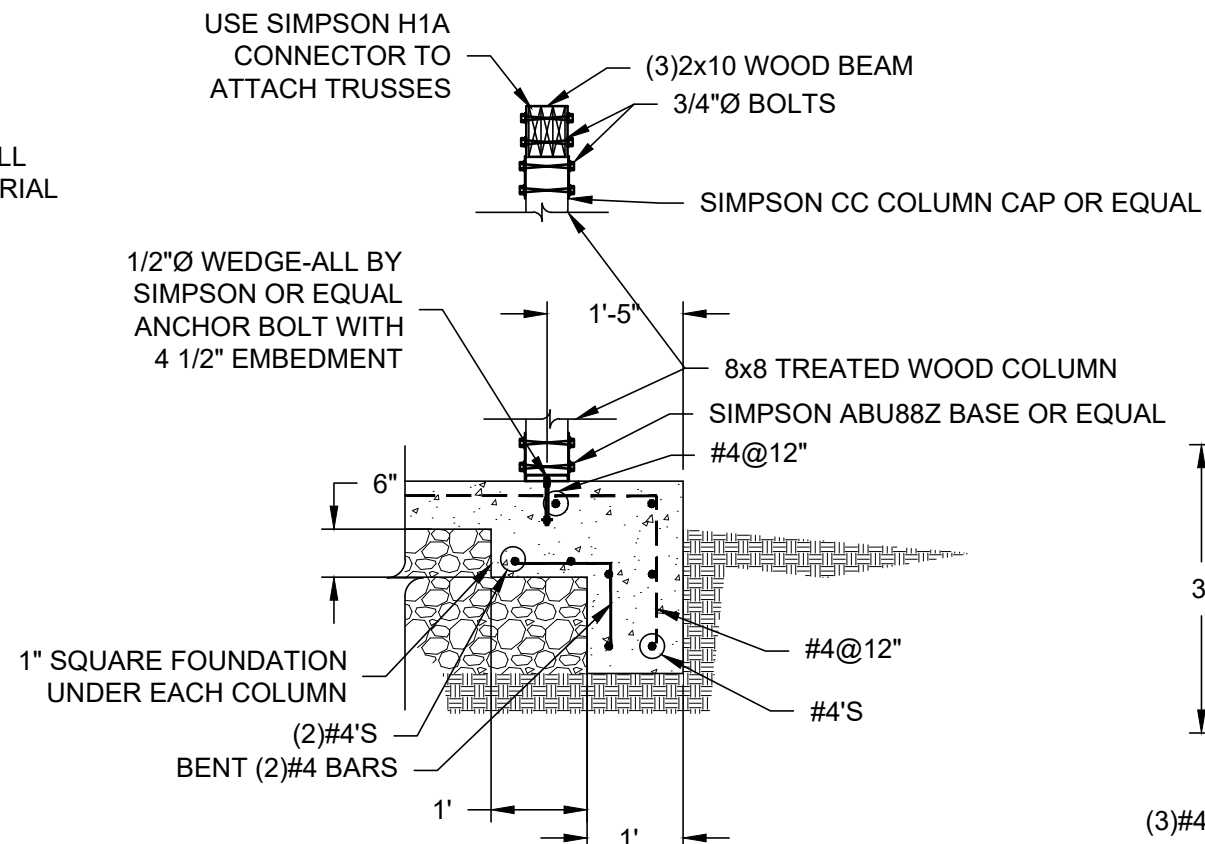
CORNER DETAIL

CONVENTIONAL 2X FRAMING

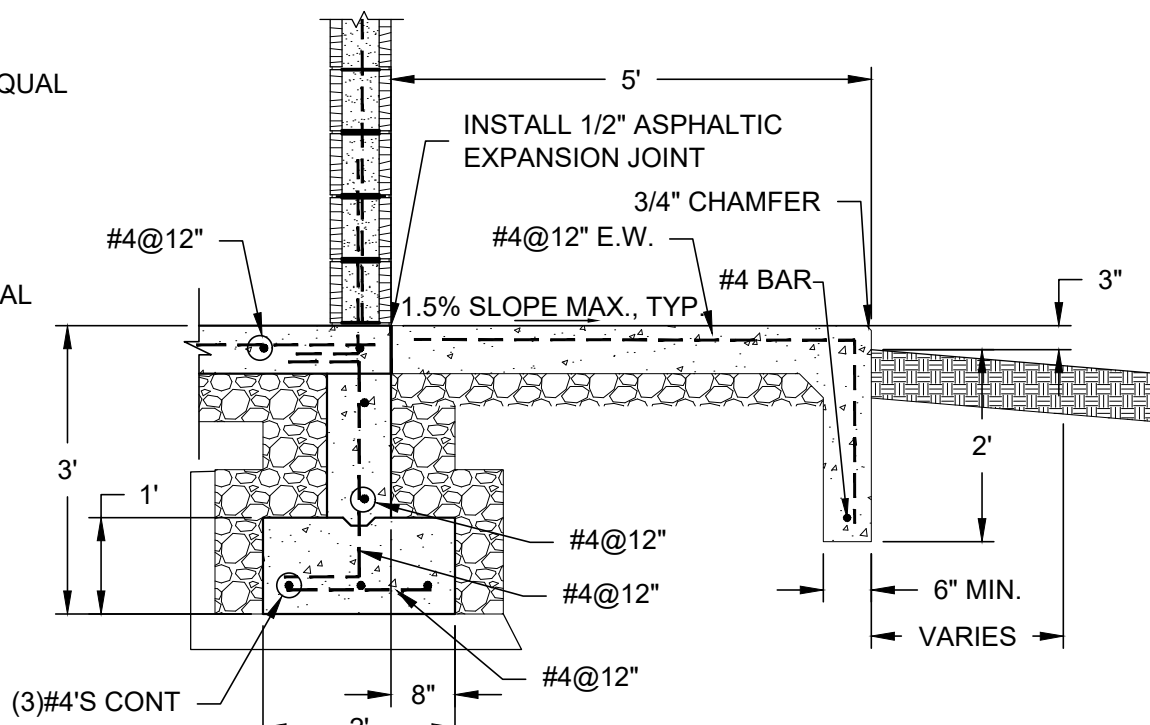
1. LUMBER AND ITS FASTENINGS, SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATIONS OF STRESS-GRADE LUMBER AND ITS FASTENINGS, LATEST EDITION, AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
2. EXTERIOR WALLS ARE 2X4 #2 SYP. STUDS AND PLATES. STUD IS 12" O.C. UNO.
3. INTERIOR LOAD BEARING WALLS ON CMU ARE 2X4 SYP. STUD GRADE STUDS AND PLATES. SPACING IS 16" O.C. UNO.
4. INTERIOR NON-LOAD BEARING WALLS ARE 2X4 STUD GRADE STUDS AT 24" O.C. UNO.
5. Hatched pattern INDICATES LOAD BEARING WALLS.
6. Dotted pattern INDICATES NON-LOAD BEARING WALLS.
7. Cross-hatched pattern INDICATES CMU WALLS.
8. MISC FRAMING MATERIAL (SILLS, CRIPPLES, ETC.) TO BE #2 SYP. UNO.
9. HEADER MATERIAL TO BE MINIMUM OF #2 SYP.
10. SHEATHING IS TO BE APA RATED STRUCTURAL SHEATHING (ALL EDGES TO BE BLOCKED)
11. MATERIALS MUST BE GRADE MARKED.
12. BOLT HOLES THROUGH WOOD SHALL BE DRILLED 1/16" MAXIMUM LARGER THAN THE DIAMETER OF THE BOLTS TO BE INSTALLED.
13. BOLTS THROUGH WOOD SHALL BE FITTED WITH STANDARD WASHERS AT HEAD AND NUT ENDS.
14. EXPOSED WOOD (WHEN SHOWN ON PLANS) SHALL BE TREATED AS FOLLOWS:
WOOD NOT IN CONTACT WITH GROUND 0.25 PCF
WOOD IN CONTACT WITH GROUND 0.40 PCF
15. SHEATHING IS TO BE 7/16" APA RATED STRUCTURAL SHEATHING (ALL EDGES TO BE BLOCKED)
16. SHEATHING IS TO BE ATTACHED USING 8D COMMON NAILS @ 6" O.C. (EDGE) AND 12" O.C. (INTERMEDIATE).
17. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING AND WALL HEIGHTS.
18. SHEATHING FOR ROOF TRUSSES TO BE 5/8" A-GRADE CDX PLYWOOD.



2 CMU WALL ELEVATION
SCALE: SCALE: 3/4"=1'-0"



5 SECTION
SCALE: 1/2" = 1'-0"



6 SECTION
SCALE: 1/2" = 1'-0"

BAR SIZE	LENGTH OF LAPPED SPLICES FOR REINFORCEMENT, IN INCHES		LENGTH OF EMBEDMENT FOR END ANCHORAGE OF REINFORCEMENT WITH STD. HOOKS, IN INCHES	
	*TOP BARS	OTHERS	*TOP BARS	OTHERS
3	20	20	8	8
4	28	20	8	8
5	36	26	10	8
6	46	33	13	10
7	63	45	17	13
8	83	59	22	17
9	104	74	28	22
10	133	95	40	31
11	163	116	55	41
14	NOT PERMITTED		90	67
18	NOT PERMITTED		138	103

* TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE TO BE PROVIDED WITH LAPS AS REQUIRED FOR TOP BARS.

EXCEPT AS OTHERWISE INDICATED ON THE PLANS, EMBEDMENT LENGTHS FOR END ANCHORAGE AND LAPPED SPLICES SHALL NOT BE LESS THAN (NO MINUS TOLERANCE) SHOWN ABOVE.

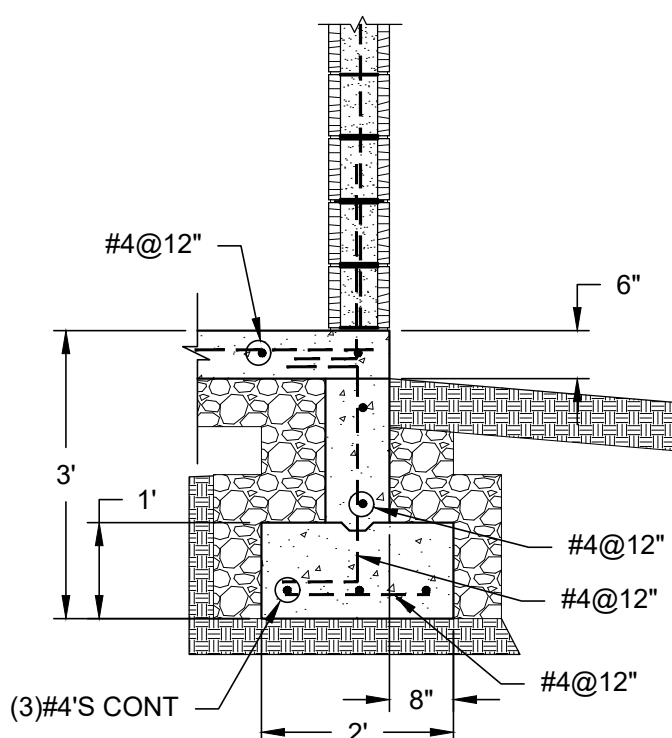
LAPPED SPLICES SHALL NOT BE MADE AT POINTS OF MAXIMUM STRESS AS DETERMINED BY THE ENGINEER.

REINFORCING SPLICE, EMBEDMENT AND COVER REQUIREMENTS

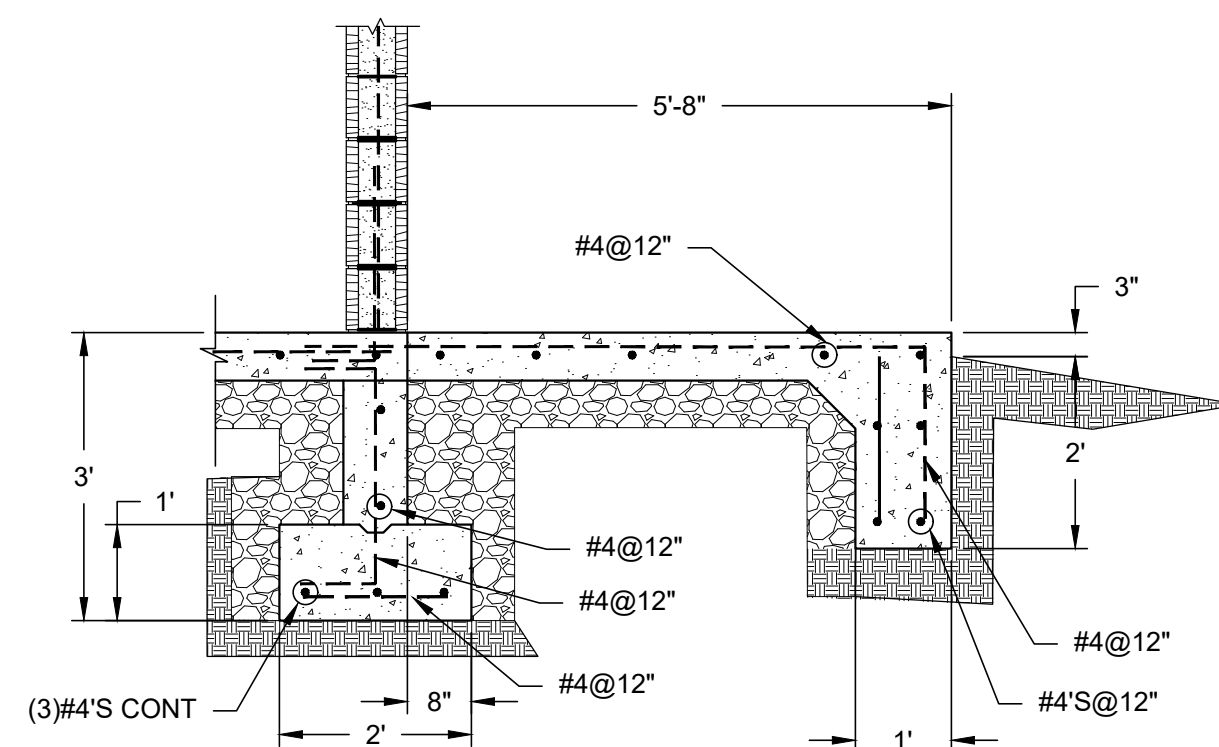
CONCRETE COVER FOR REINFORCING

LOCATION	MINIMUM COVER
UNFORMED SURFACES ADJACENT TO EXCAVATION	3"
FORMED OR TOP SURFACES EXPOSED TO WEATHER OR SATURATED AIR, SUBMERGED OR IN CONTACT WITH EARTH	
#6 OR LARGER BARS	2"
#5 OR SMALLER BARS	1-1/2"
OTHER LOCATIONS	
BARS IN BEAMS OR GIRDERS, INCLUDING STIRRUPS AND COLUMN SPIRALS OR TIES	1-1/2"
#14 AND #18	1-1/2"
#11 AND SMALLER	3/4"

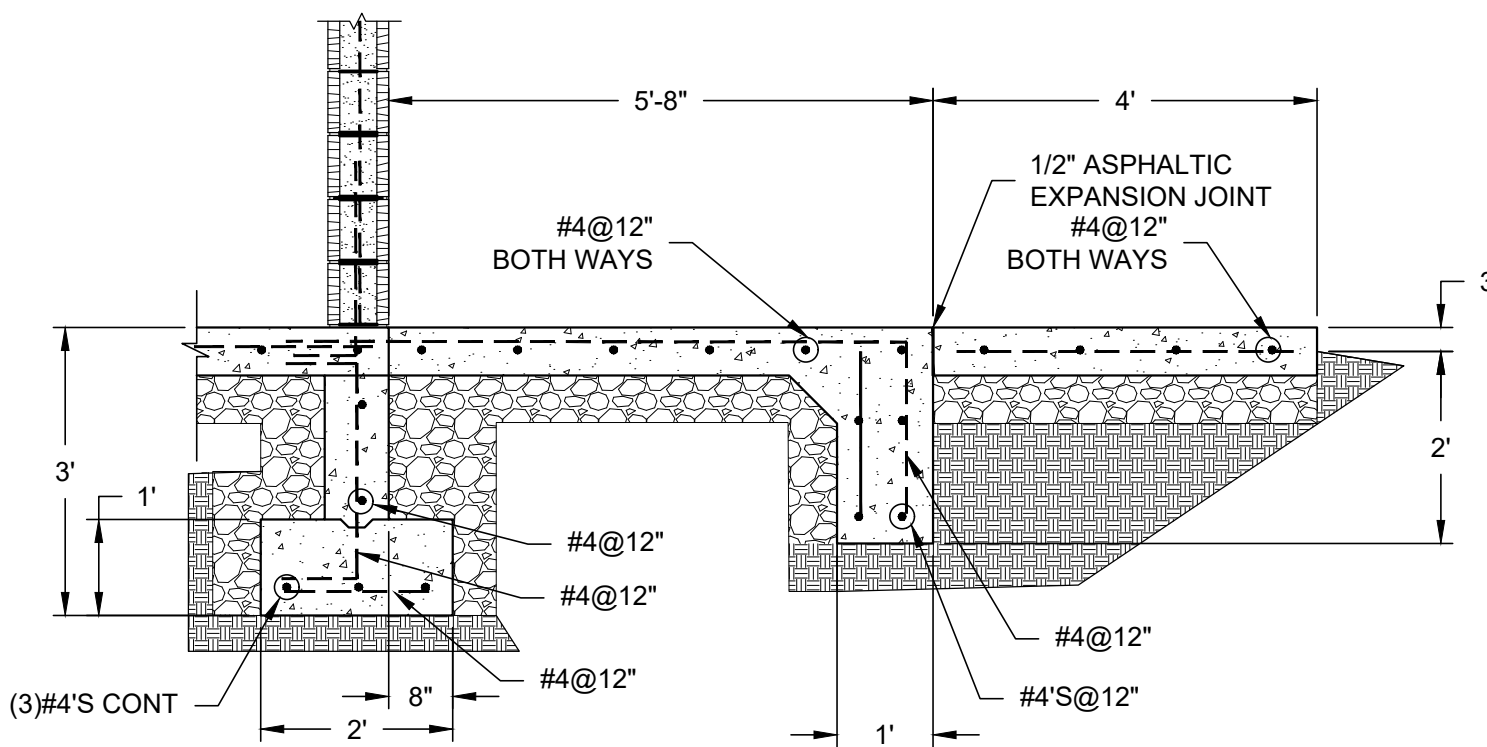
COVER FOR REINFORCING STEEL SHALL NOT BE LESS THAN THE MINIMUM GIVEN ABOVE (NO MINUS TOLERANCE), AND SHALL NOT EXCEED THE MINIMUM BY MORE THAN 1/4 INCH WHERE THE CONCRETE THICKNESS IS 24" OR LESS, OR MORE THAN 1/2 INCH WHERE THE CONCRETE THICKNESS IS MORE THAN 24 INCHES.



3 SECTION
SCALE: 1/2" = 1'-0"



7 SECTION
SCALE: 1/2" = 1'-0"



8 SECTION
SCALE: 1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 10/24/2025

CAD DWG FILE: S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

STRUCTURAL
DETAILS

SHEET NUMBER:

S-105

16 OF 71 SHEETS
10/24/2025

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

COMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE:S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

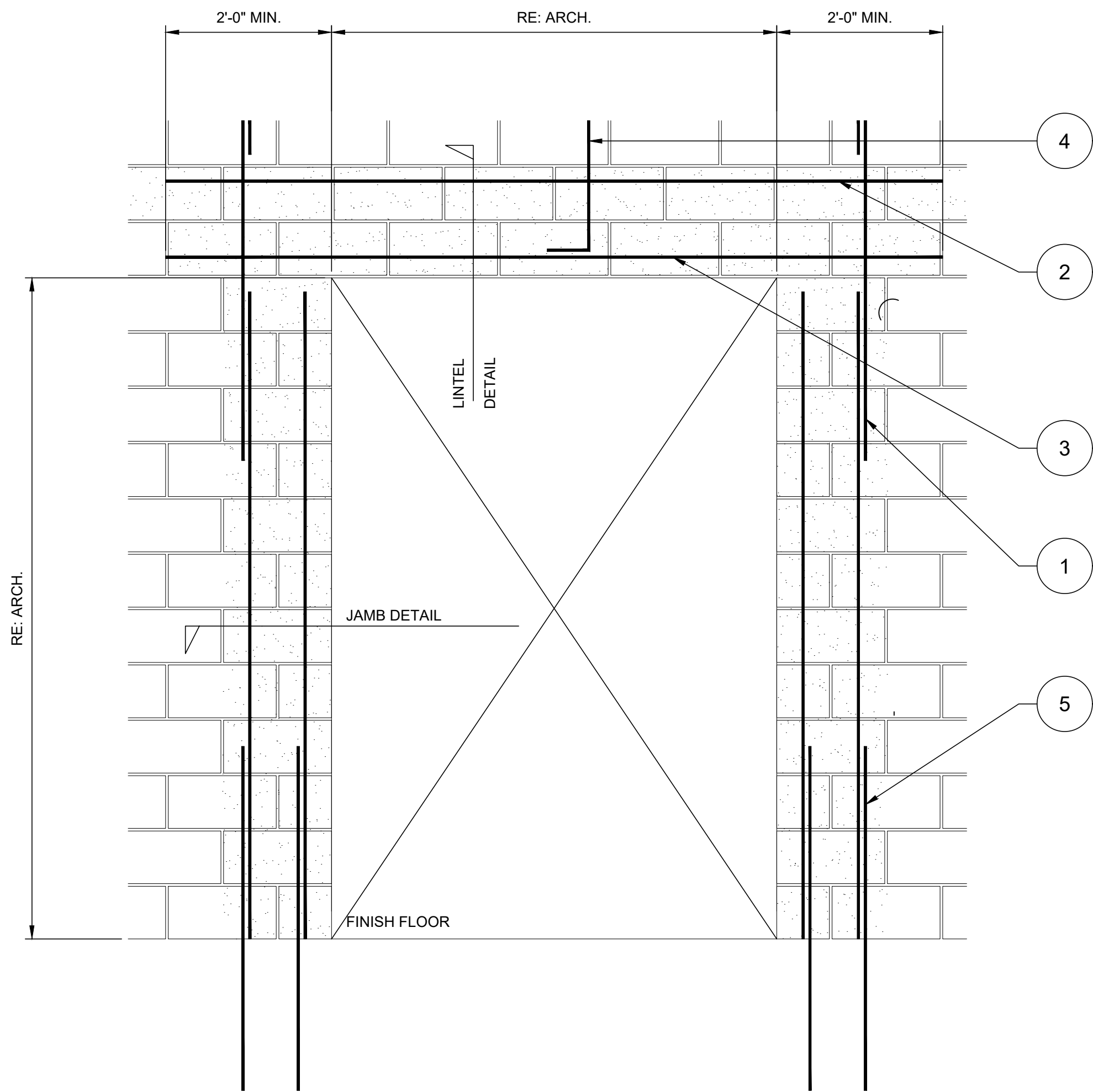
SHEET TITLE:

STRUCTURAL
DETAILS

SHEET NUMBER:

S-106

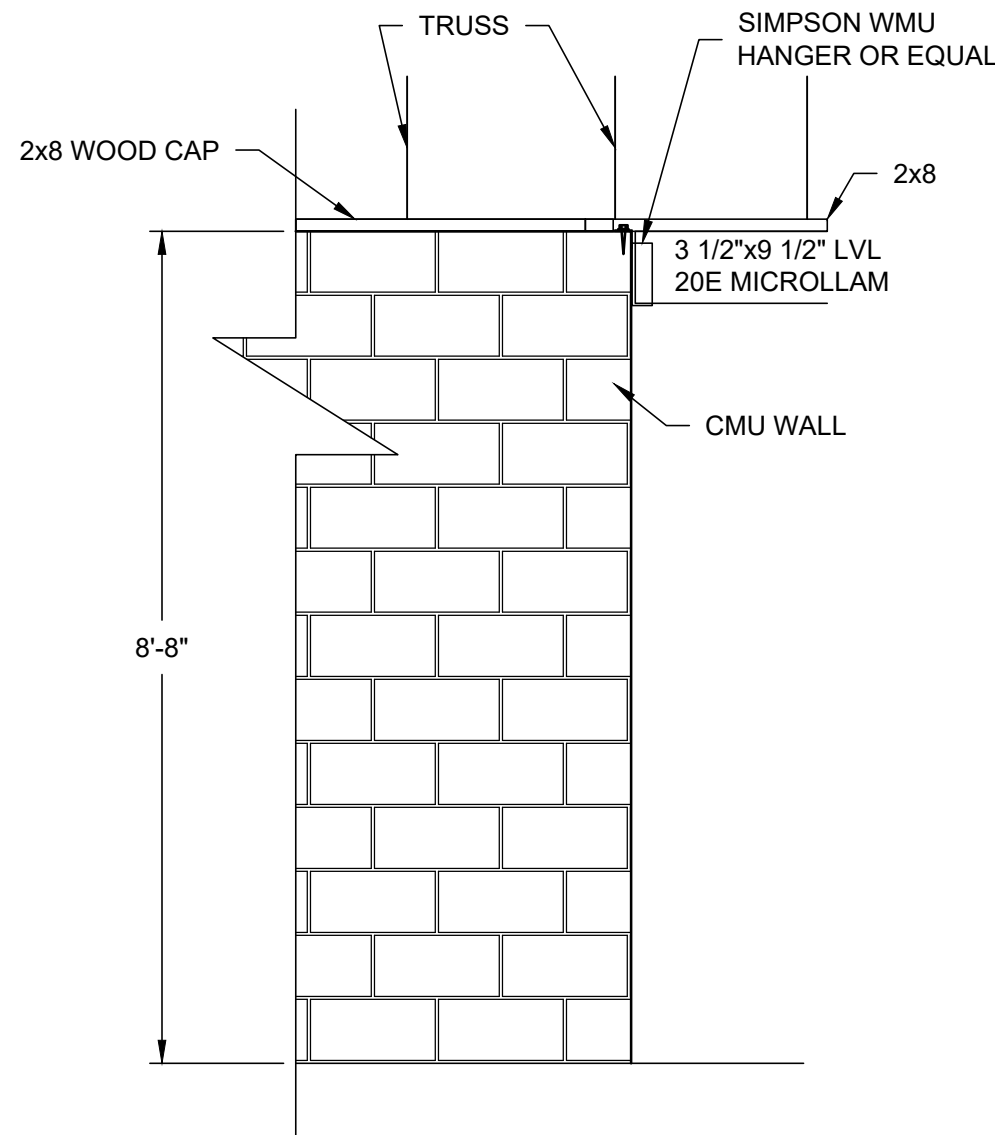
17 OF 71 SHEETS
10/24/2025



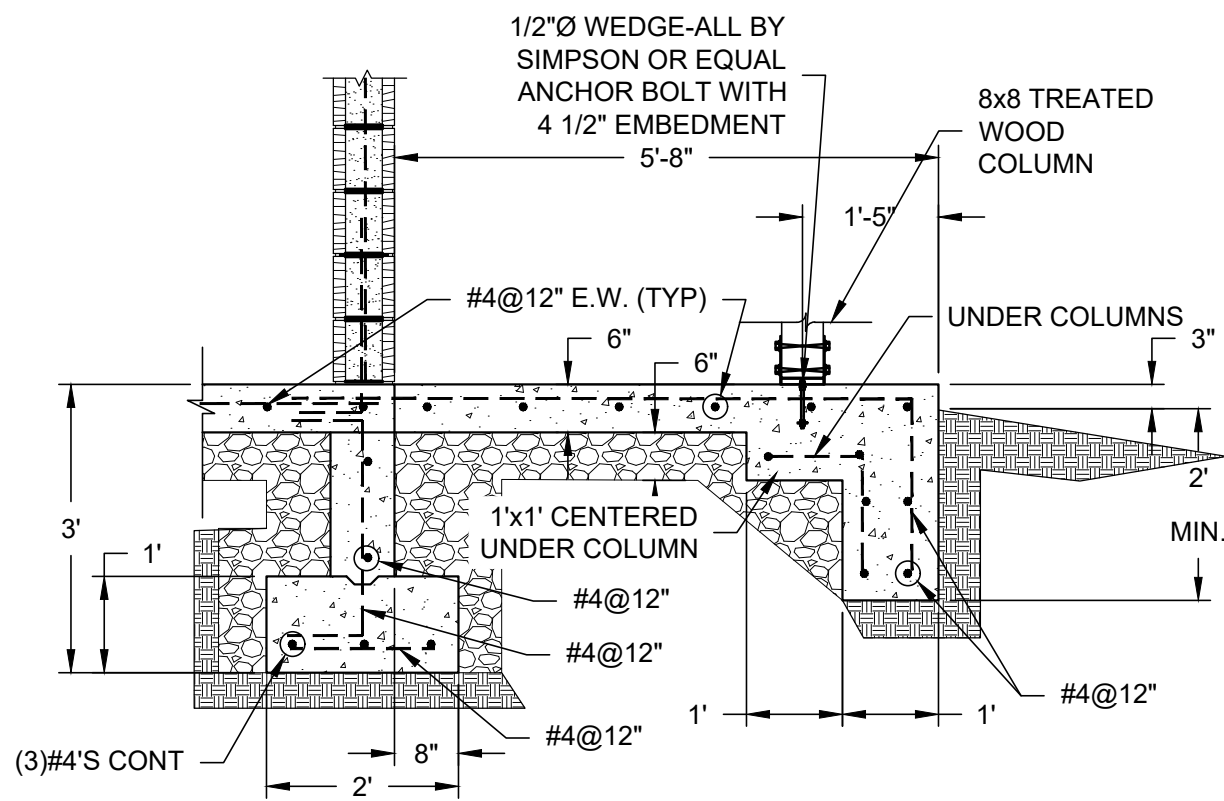
NOTES:

1. REFER TO CMU WALL REINFORCING DIAGRAM FOR SPLICES IN VERTICAL REINF.
2. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" (3'-0" FOR #7 BARS) BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINFORCING AND 1'-4" FOR HOOKED LINTEL REINFORCEMENT WITH STANDARD ACI HOOK.
3. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS.
4. CONTINUE VERTICAL WALL REINFORCING OVER OPENING. ANCHOR VERTICAL REINFORCING INTO STANDARD ACI HOOK.
5. PROVIDE MATCHING DOWELS AT ALL VERTICAL REINFORCING LOCATIONS.

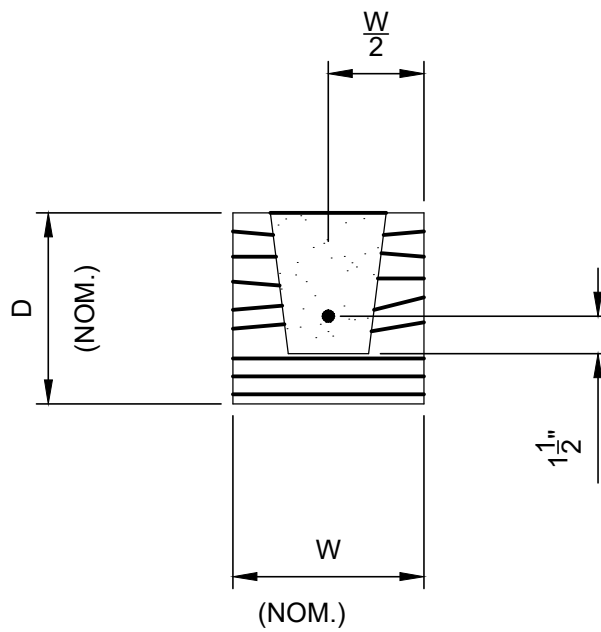
1 ADDITIONAL REINFORCING AT OPENINGS
SCALE: 3/4"=1'-0"



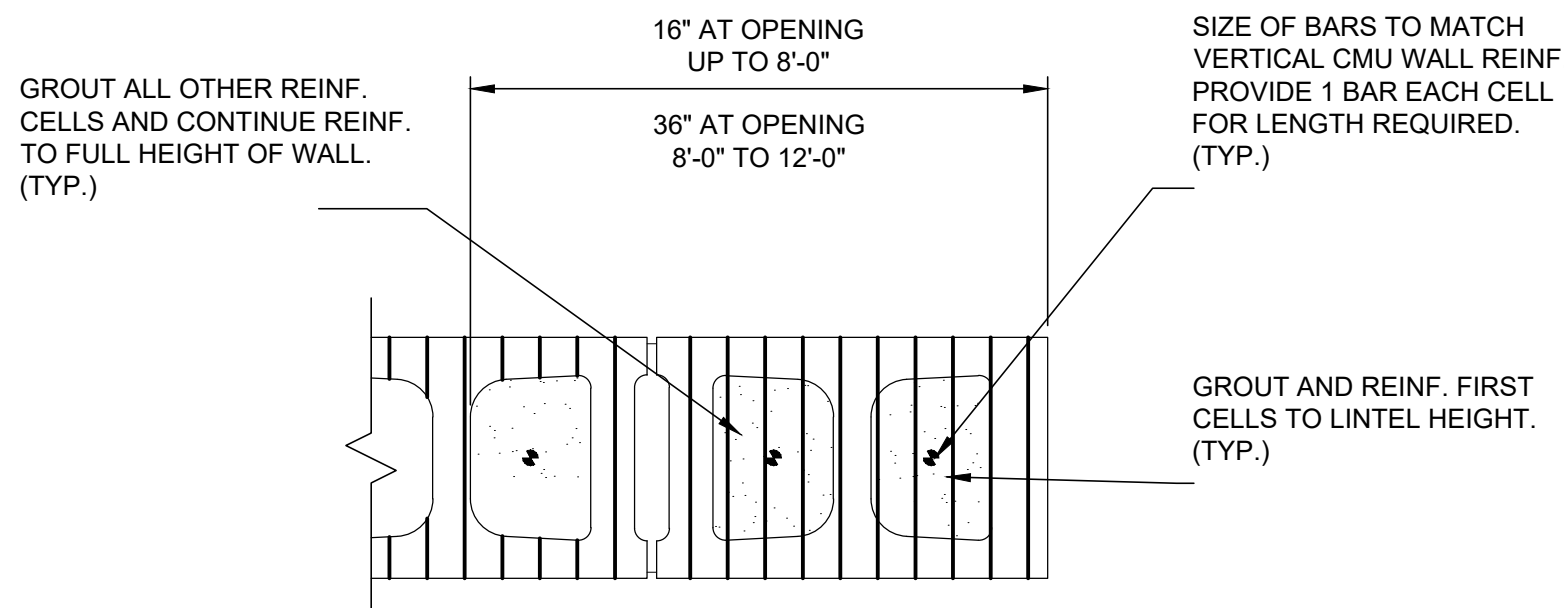
2 LVL TO CMU SECTION
SCALE: 1/2" = 1'-0"



3 SECTION
SCALE: 1/2" = 1'-0"

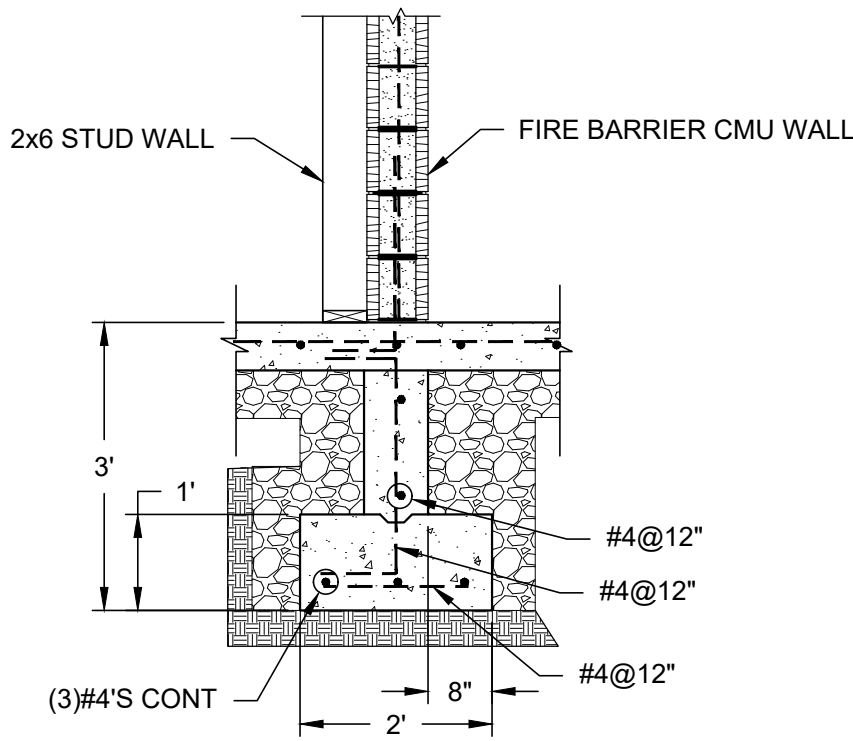


CMU LINTEL DETAIL

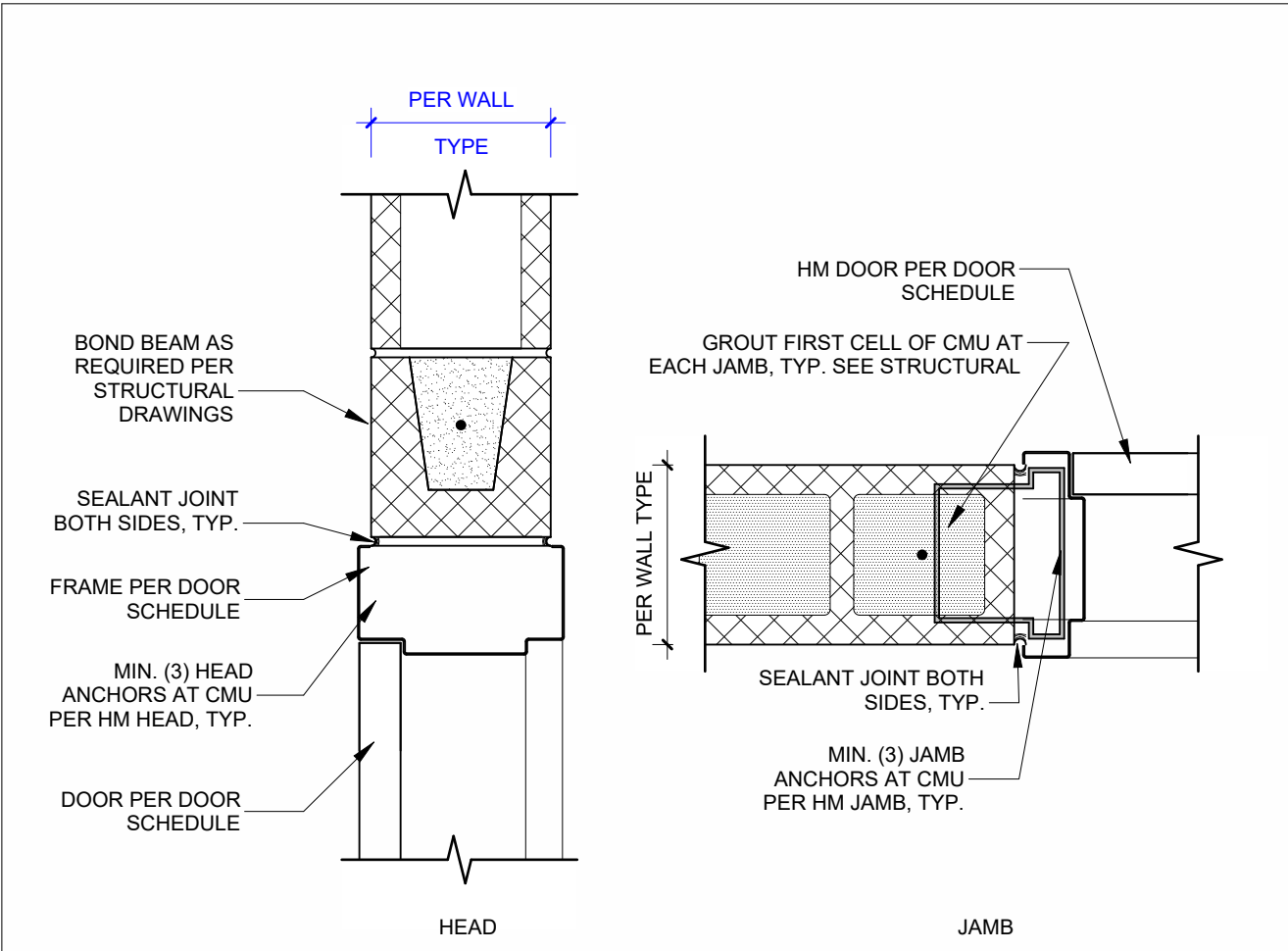


JAMB DETAIL

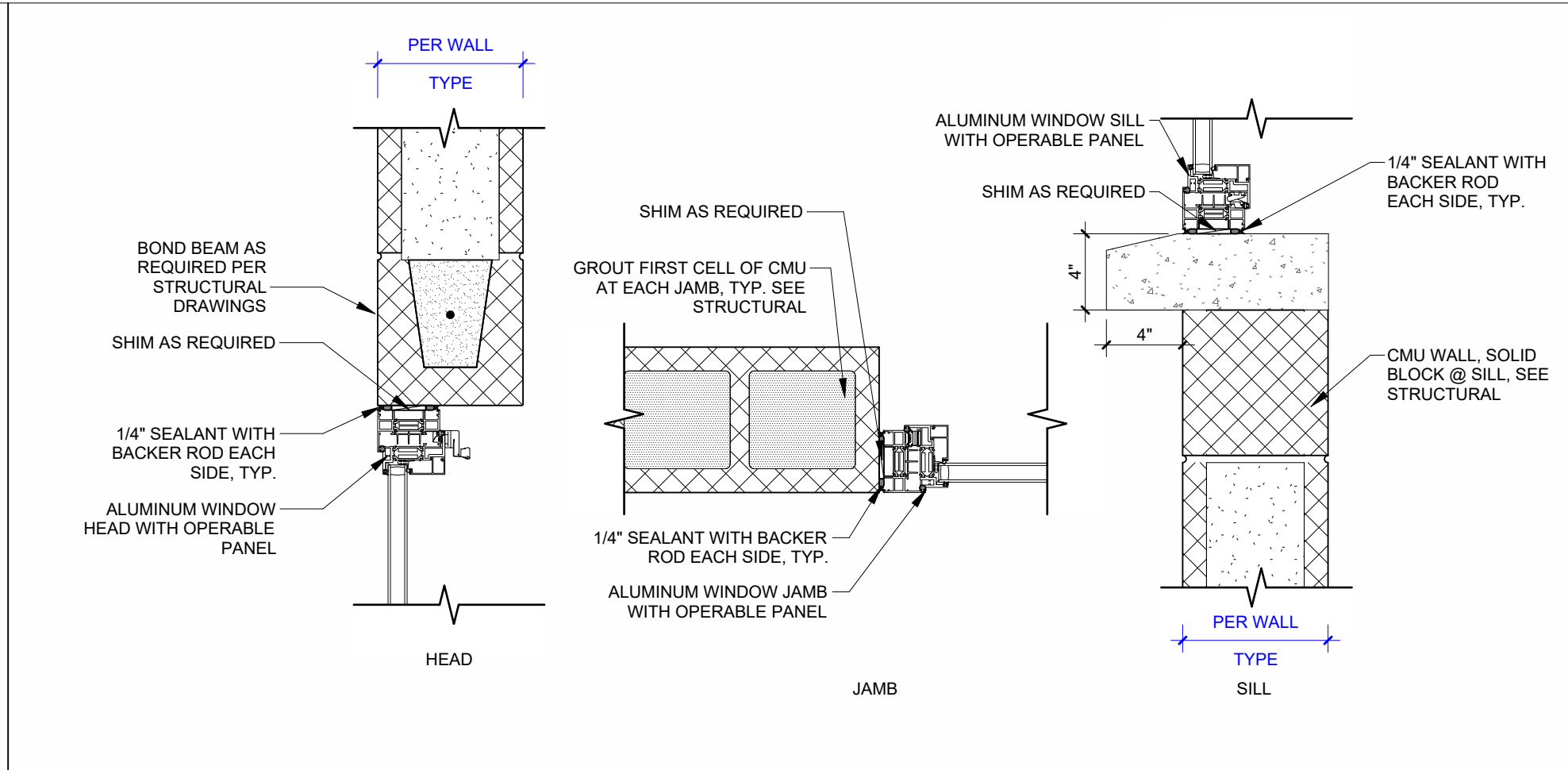
(ML) CMU LINTEL SCHEDULE					
WIDTH (W)	CLEAR SPAN	DEPTH (D)	BOTTOM REINF.	TOP REINF.	STIRRUPS AND SPACING
8"	UP TO 6'-0"	8"	#4	---	-----



4 SECTION
SCALE: 1/2" = 1'-0"

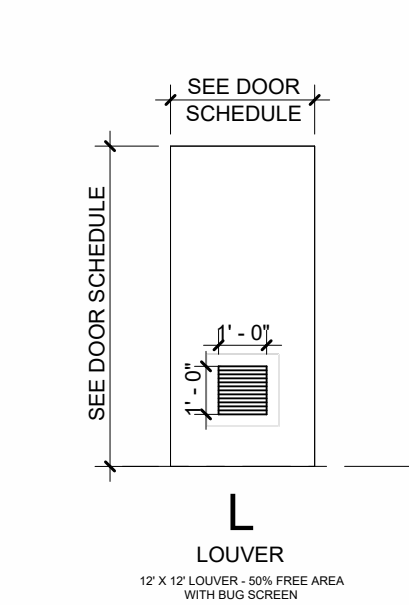


2 HM DOOR FRAME @ CMU.
SCALE 1 1/2" = 1'-0"

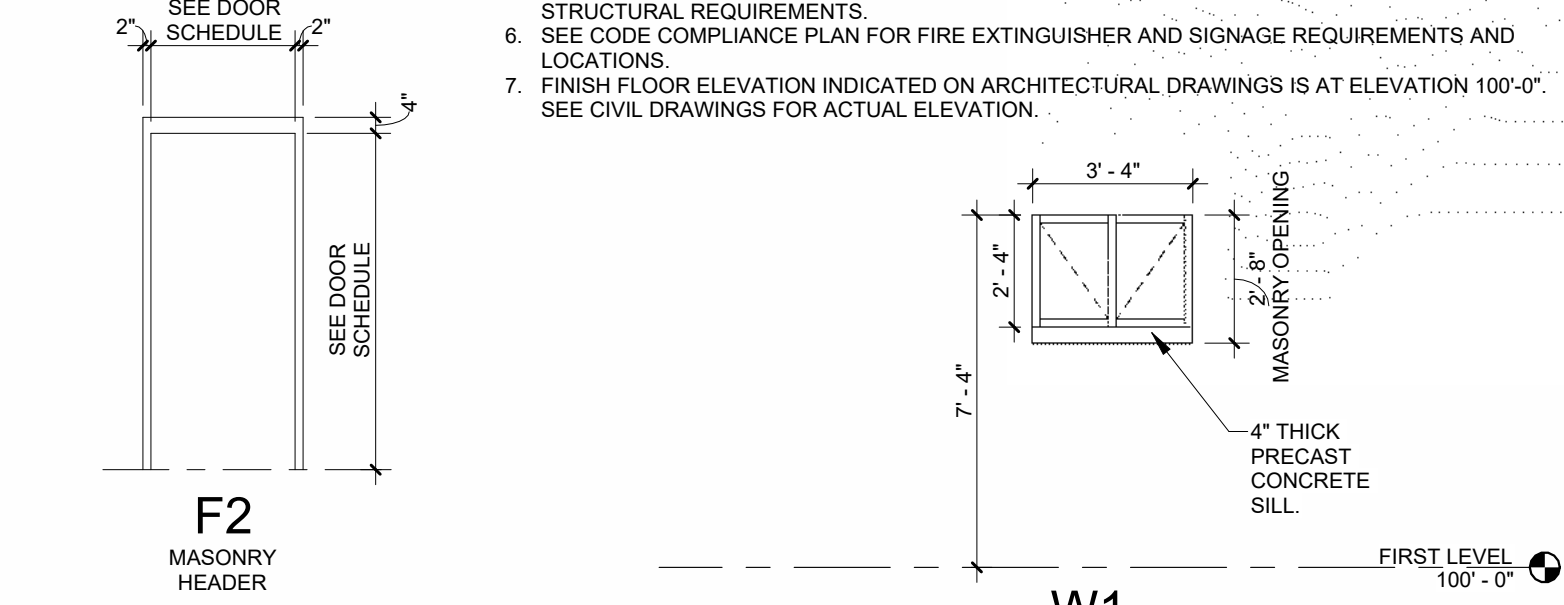


3 STOREFRONT @ CMU.
SCALE 1 1/2" = 1'-0"

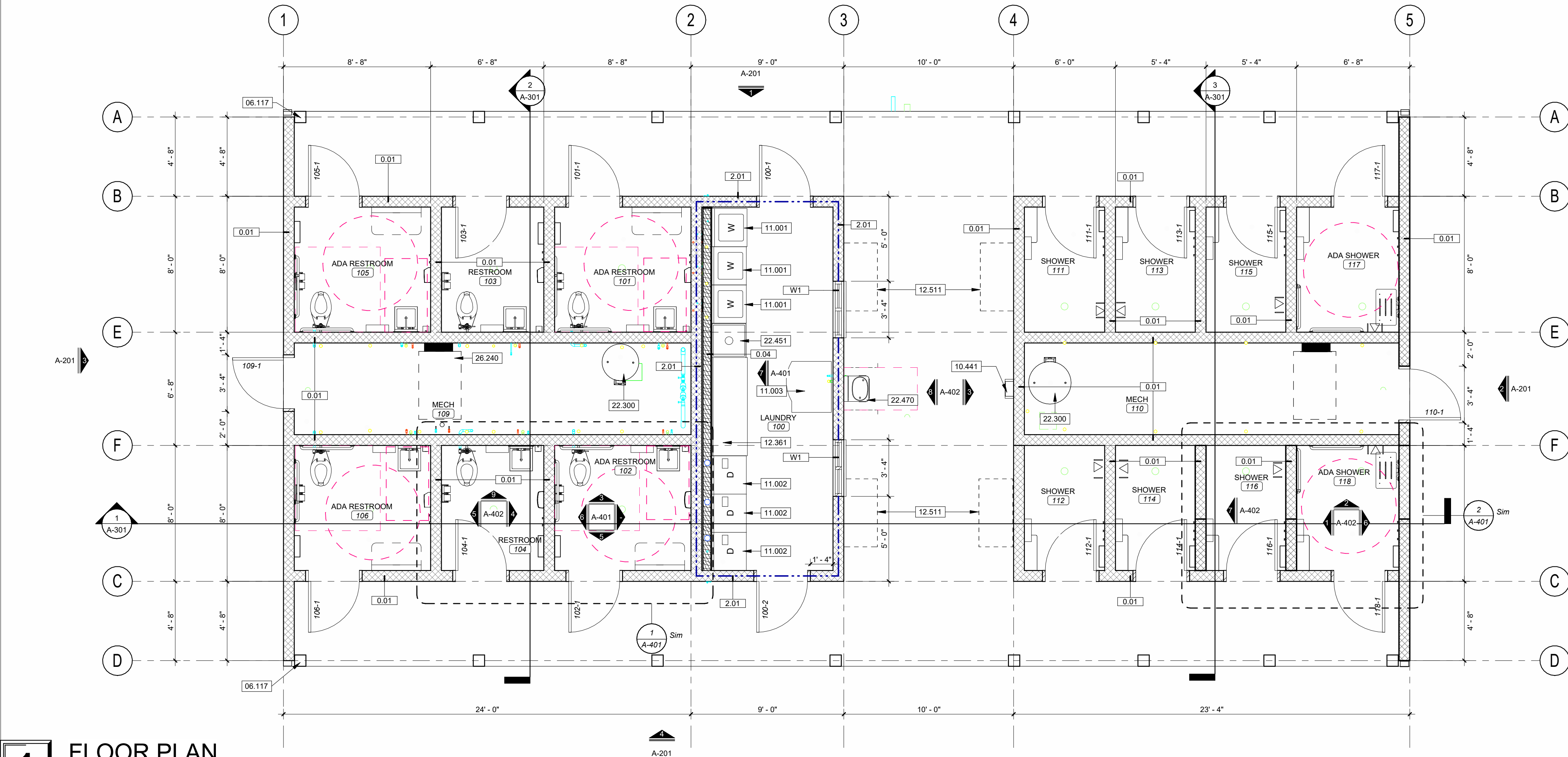
DOOR NO.	OPENING		DOOR					FRAME					Hardware Set	COMMENTS
	WIDTH	HEIGHT	CONFIG	PANEL WIDTH	THICK	TYPE	MATL	FINISH	TYPE	MATL	FINISH	RATING		
100-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	45 MIN	1	REQUIRED: FIRE RATED LOUVER
100-2	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	45 MIN	1	REQUIRED: FIRE RATED LOUVER
101-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
102-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
103-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
104-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
105-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
106-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
109-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		2	
110-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		2	
111-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
112-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
113-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
114-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
115-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
116-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
117-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	
118-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT		1	



DOOR TYPE LEGEND
NTS



DOOR FRAME LEGEND
NTS



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

PARTITION TYPE GENERAL NOTES

- EXTERIOR WALL CONSTRUCTION IS DESCRIBED IN WALL SECTIONS. INTERIOR WALL TYPES ARE DESCRIBED BY THEIR DENOTED WALL TYPE TAGS.
- ANY WALL CONSTRUCTION NOT NOTED WITH A PARTITION WALL TYPE TAG SHALL BE CLARIFIED FOR INTERPRETATION BY THE ARCHITECT PRIOR TO BIDDING.
- WALL TYPE INDICATES PRIMARY WALL ASSEMBLY ONLY. OVERLAD VENEERS, WAINSCOT, PILASTERS, PAINT, AND WALL COVERINGS ARE INDICATED ON FLOOR PLANS, FINISH PLANS, INTERIOR ELEVATIONS, SCHEDULES, SPECIFICATIONS OR OTHER DETAILS IN ADDITION TO PRIMARY WALL ASSEMBLY.
- THE CONTRACTOR SHALL COORDINATE WALL FRAMING ABOVE FINISHED CEILINGS WITH FRAMING, PLUMBING, AND HVAC CONTRACTORS. THE FRAMING CONTRACTOR SHALL PROVIDE THE NECESSARY ROUGH OPENING FRAMING REQUIRED TO FACILITATE BUILDING SYSTEM PENETRATIONS. REFER TO MEP ENGINEERING DRAWINGS FOR LOCATIONS OF EXISTING AND NEW BUILDING SYSTEMS. SOME WALL FRAMING AND BRACING MAY REQUIRE ADJUSTMENT OR RE-LOCATION TO ALLOW FOR DUCT AND PIPE ROUTING.
- SEE STRUCTURAL DRAWINGS, NOTES, AND DETAILS FOR ADDITIONAL STRUCTURAL CMU AND STRUCTURAL STUD WALL INFORMATION. THIS IS A TYPICAL CONDITION FOR ALL WALL TYPES.
- ASSEMBLIES SHALL BE AIRTIGHT. SEAL ALL PENETRATIONS AND CRACKS WITH ACOUSTICAL SEALANT IN NON-RATED PARTITIONS. PROVIDE FIRE RATED SEALANT AT CRACKS IN FIRE RATED PARTITIONS. PROVIDE ACOUSTICAL SEALANT AT THE TOP AND BOTTOM OF PARTITIONS. PROVIDE FIRE RATED SEALANT AT THE TOP AND BOTTOM OF FIRE RATED PARTITIONS.
- RECESSED FIXTURES SUCH AS OUTLETS SHALL NOT BE PLACED BACK TO BACK IN THE SAME STUD CAVITY.
- PROVIDE WOOD BLOCKING FOR ALL ACCESSORIES, EQUIPMENT, AND CASEWORK. SEE PLANS FOR LOCATIONS.
- FOR ALL RATED ASSEMBLIES - PARTITION DETAILS ON THIS SHEET ARE INTENDED TO ILLUSTRATE BASIC WALL ASSEMBLY. REFER TO UL LISTING DETAILS FOR SPECIFIC INSTRUCTION REGARDING ATTACHMENT, MATERIAL AND MANUFACTURER SELECTION, ETC.

FLOOR PLAN GENERAL NOTES

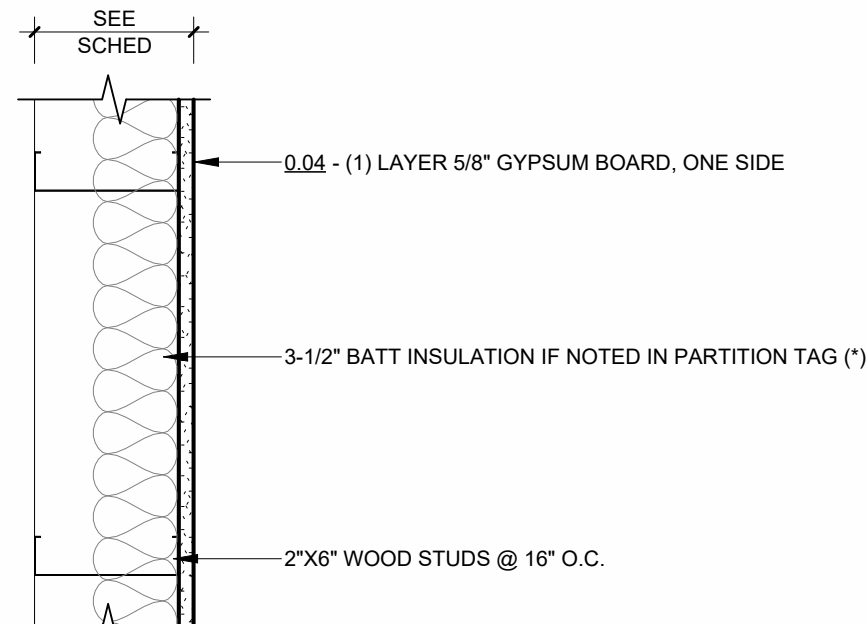
- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS. FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. DIMENSIONS OF EXISTING STRUCTURE ARE NOTED "H" AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES IN WRITING.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK.
- CONTRACTOR TO PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING.
- PROVIDE SOLID WOOD BLOCKING AS REQUIRED TO INSTALL EQUIPMENT AND CASEWORK. VERIFY WITH OWNER FOR ALL ADDITIONAL OWNER FURNISHED ITEMS THAT REQUIRE BLOCKING.
- BUILDING IS TO BE STAKED OUT ON SITE BY A REGISTERED LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION TO VERIFY THAT NO CONFLICTS EXIST BETWEEN PROPOSED CONSTRUCTION AND PROPERTY SETBACKS, EASEMENTS, EXISTING STRUCTURES, OR OTHER PHYSICAL OBJECTS ON SITE. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY CONFLICTS OR VARIATIONS FROM PLANS.
- SEE STRUCTURAL DRAWINGS FOR ALL HEADER, BOND BEAM, LINTEL, COLUMN, AND OTHER STRUCTURAL REQUIREMENTS.
- SEE CODE COMPLIANCE PLAN FOR FIRE EXTINGUISHER AND SIGNAGE REQUIREMENTS AND LOCATIONS.
- FINISH FLOOR ELEVATION INDICATED ON ARCHITECTURAL DRAWINGS IS AT ELEVATION 100'-0". SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.

KEYNOTE LEGEND

06.117	STRUCTURAL WOOD COLUMN. SEE STRUCTURAL.
10.441	SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.
11.001	WASHER. OFOI
11.002	DRYER. OFOI
11.003	VENDING MACHINE. OFOI
12.361	PLASTIC LAMINATE COUNTERTOP. PROVIDE PLASTIC LAMINATE FINISH OVER 3/4" 45# PARTICLE BOARD. SEE SECTION 12.3600 COUNTERTOPS.
12.511	BENCH. OFOI
22.300	WATER HEATER. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
22.451	LAUNDRY UTILITY SINK. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
22.470	DRINKING FOUNTAIN. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
26.240	PANELBOARDS. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.

WALL SCHEDULE

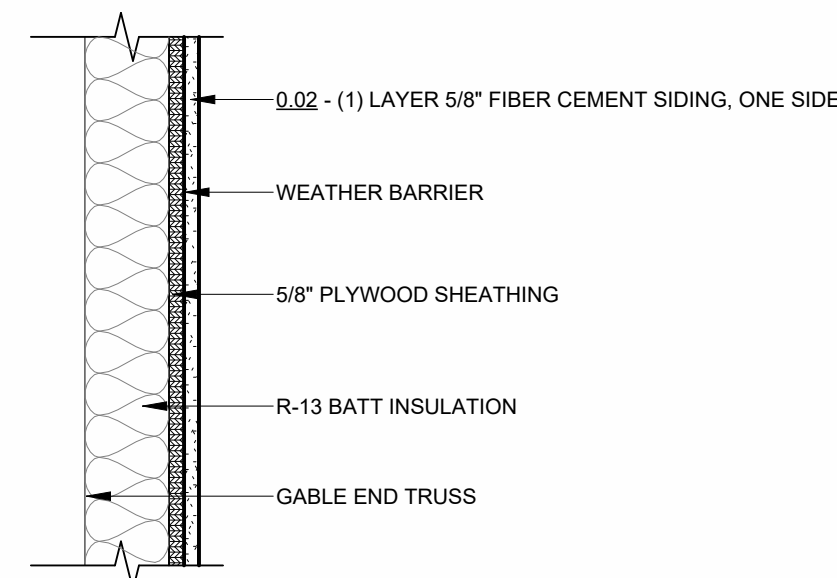
0.01	8" GROUND FACE CMU RUNNING BOND
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BARRIER OVER WALL SHEATHING OVER GABLE END TRUSS
0.04	2 X 6 WOOD FRAMING AT 16" O.C. WITH 5/8" GYPSUM BOARD FINISHED SIDE
2.01	8" CMU RUNNING BOND-2 HR
W1	STOREFRONT ASSEMBLY - 2" X 4.5" MULLIONS WITH CENTER SET GLAZING



PTN. TYPE	RATING	WIDTH	NOTES
0.04	-	6 5/8"	-

INTERIOR PARTITION #.04.

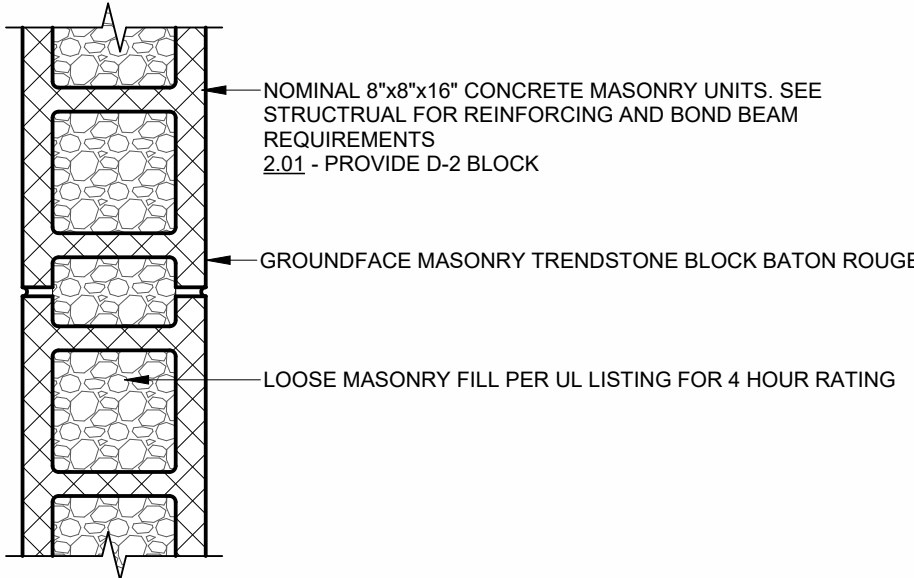
NTS



PTN. TYPE	RATING	WIDTH	NOTES
0.02	-	4 3/4"	-

INTERIOR PARTITION #.02.

NTS



PTN. TYPE	RATING	WIDTH	NOTES
0.01	-	7 5/8"	-
2.01	2 HOUR	7 5/8"	UL U905 - LOAD BEARING/NON-LOAD BEARING WALL

INTERIOR PARTITION #.01.

NTS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-2017019282
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025 ©
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC. AND MUST BE USED ONLY FOR THE
PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

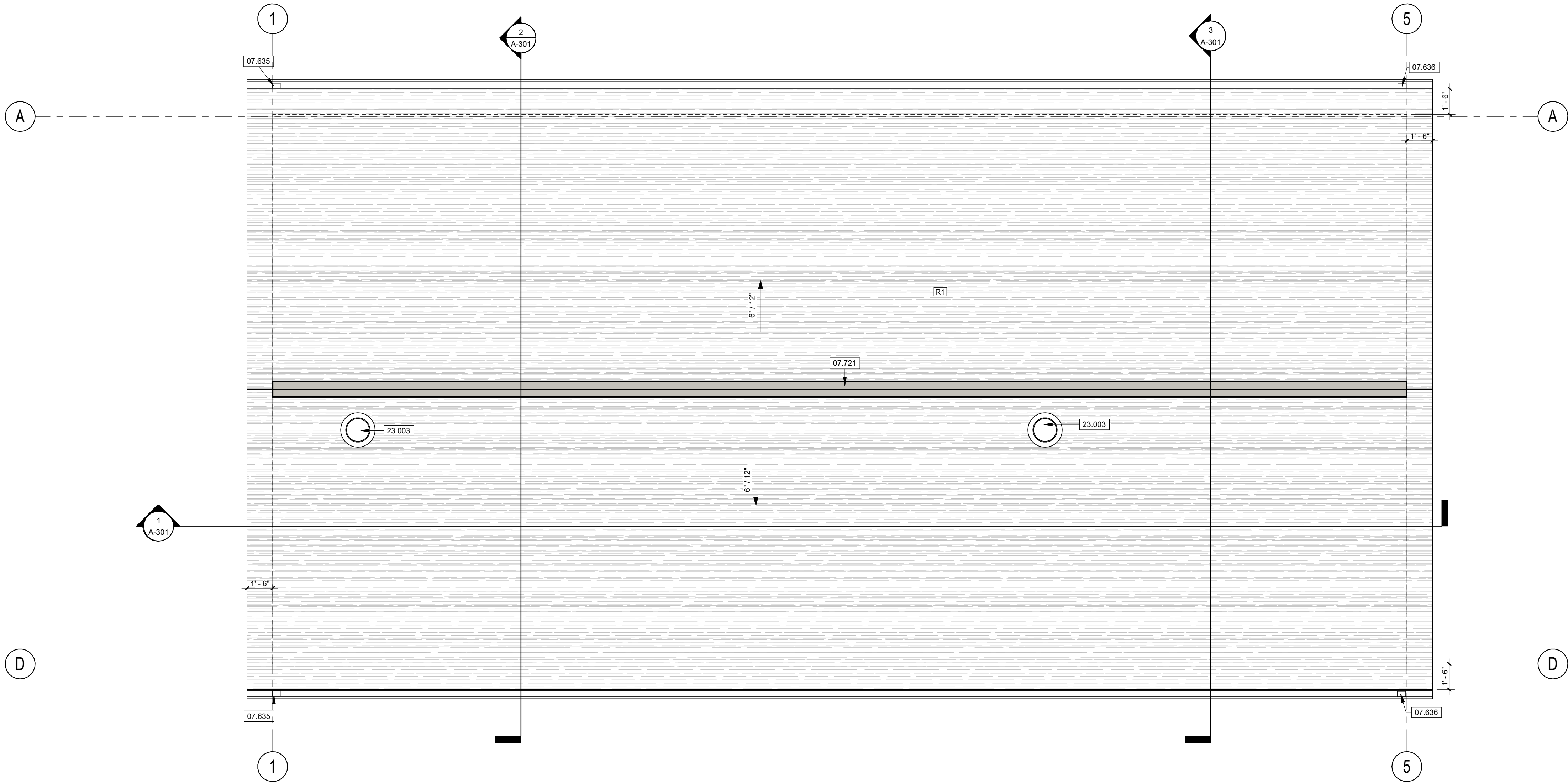
PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
FLOOR PLAN

SHEET NUMBER:

A-101

18 OF 71 SHEETS
10/24/2025



DOOR HARDWARE GROUPS

SET 1: RESTROOM/SHOWER

- 3 EA BUTT HINGES
- 1 EA DEADBOLT WITH OUTSIDE OCCUPANCY INDICATOR; KEYED EXTERIOR
- 1 EA DOOR PULL AND PUSH PLATE
- 1 EA CLOSER WITH HOLD OPEN
- 1 EA WALL STOP
- 1 EA ADA THRESHOLD
- 1 EA DOOR SWEEP WITH NEOPRENE SEAL
- 1 EA WEATHERSTRIPPING

SET 2: MECH ROOM

- 3 EA BUTT HINGES
- 1 EA KEYPAD ENTRY CYLINDRICAL LOCKSET- BATTERY POWERED
- 1 EA CLOSER WITH HOLD OPEN
- 1 EA WALL STOP
- 1 EA ADA THRESHOLD
- 1 EA DOOR SWEEP WITH NEOPRENE SEAL
- 1 EA WEATHERSTRIPPING

SET 3: LAUNDRY

- 3 EA BUTT HINGES
- 1 EA CYLINDRICAL LOCKSET- CLASSROOM FUNCTION
- 1 EA CLOSER WITH HOLD OPEN
- 1 EA WALL STOP
- 1 EA ADA THRESHOLD
- 1 EA DOOR SWEEP WITH NEOPRENE SEAL
- 1 EA WEATHERSTRIPPING

KEYNOTE LEGEND

07.635	6" X 6" CLASSIC GUTTER WITH SLOPED STRAPS AT 24" O.C. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.636	5" DIAMETER PREFINISHED DOWNSPOUT. PROVIDE CONCRETE SPLASH BLOCK AT GRADE. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.721	RIDGE VENT. SEE SECTION 07.7200 ROOF ACCESSORIES.
23.003	HVAC. EXHAUST FAN. SEE DIVISION 23.0000 SPECIFICATIONS.

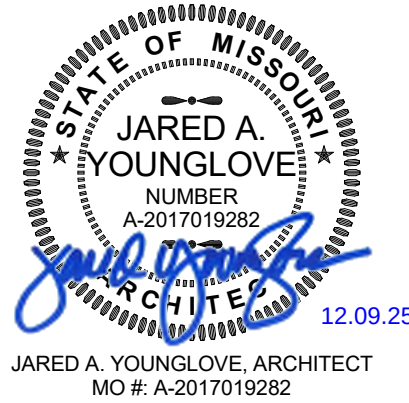
ROOF SCHEDULE

R1	#30 ASPHALT SHINGLE OVER FELT WITH 48" WIDE ICE AND WATER SHIELD AT ALL ROOF EDGES, RIDGES, VALLEYS, AND ALL VERTICAL WALL TO ROOF INTERSECTIONS OVER ROOF SHEATHING OVER TRUSSES.
----	--

ROOF PLAN GENERAL NOTES

- ALL ROOF MATERIALS TO BE COMPLIANT WITH MANUFACTURER'S ROOF WARRANTY.
- ALL ROOF TERMINATIONS AND FLASHING CONDITIONS SHALL CONFORM WITH MANUFACTURERS RECOMMENDATIONS.
- ALL PENETRATIONS OF VENTS SHALL CONFORM WITH MANUFACTURER'S RECOMMENDED DETAILS AND COMPLIANT WITH ROOF WARRANTY REQUIREMENTS.
- REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION AND ROOF PENETRATION REQUIREMENTS.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-2017019282
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025 ©
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC, AND SHALL BE USED ONLY FOR THE
PROJECT REFERENCED BELOW

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

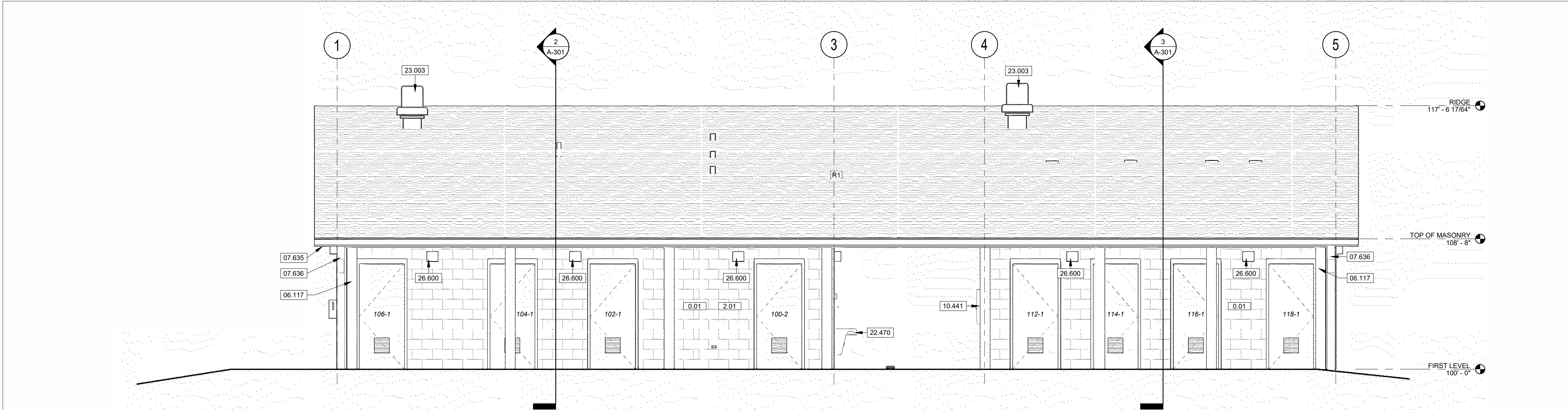
PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
ROOF PLAN

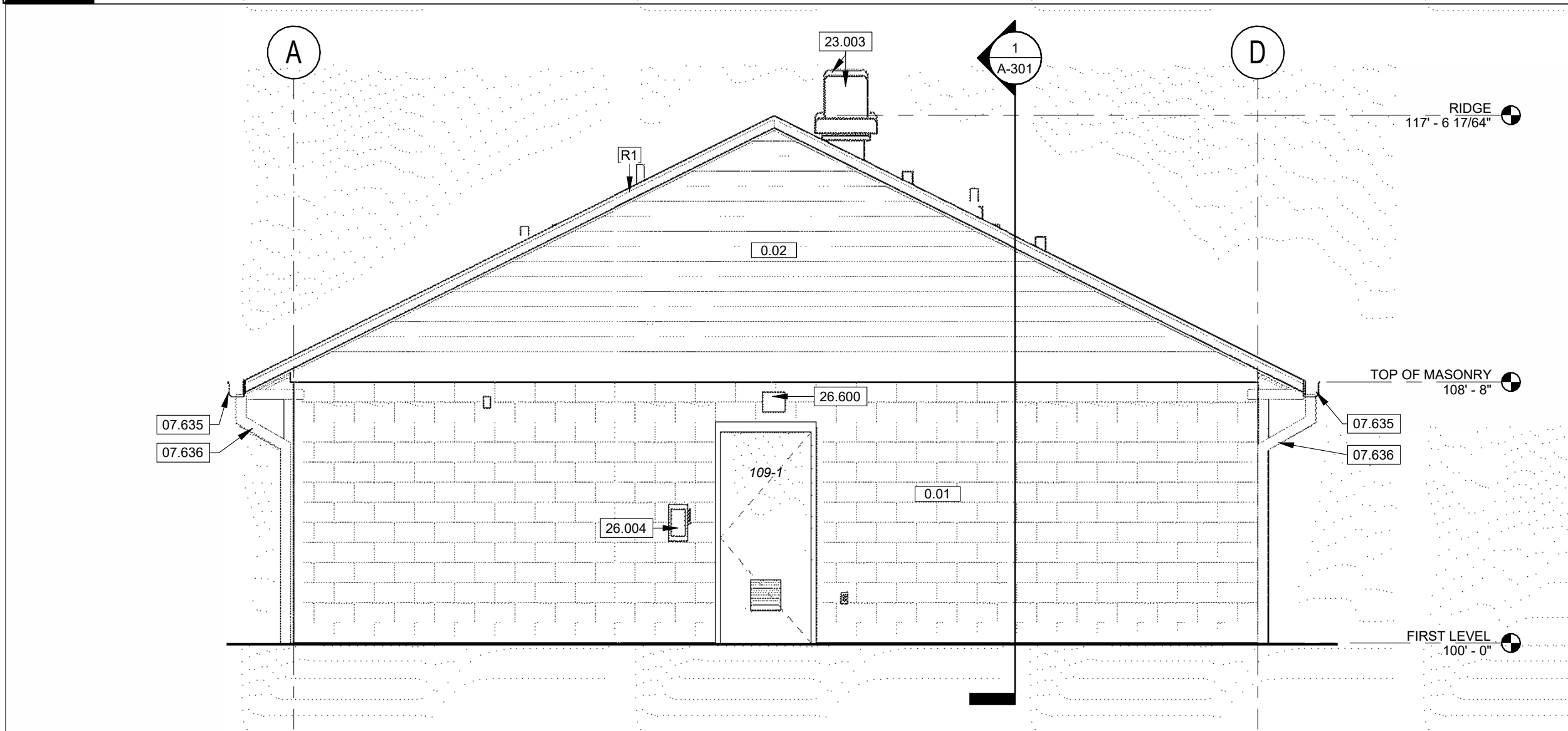
SHEET NUMBER:

A-102

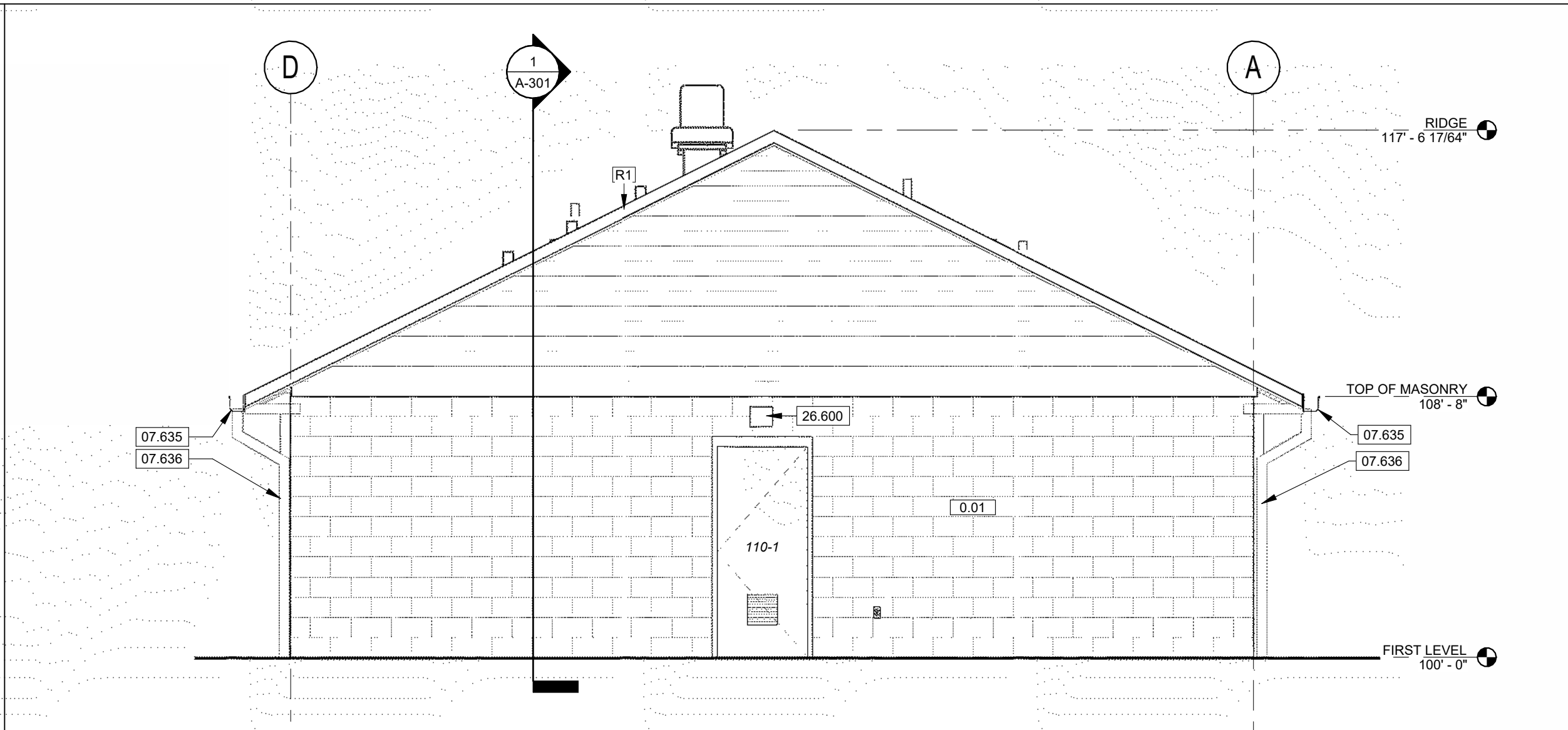
19 OF 71 SHEETS
10/24/2025



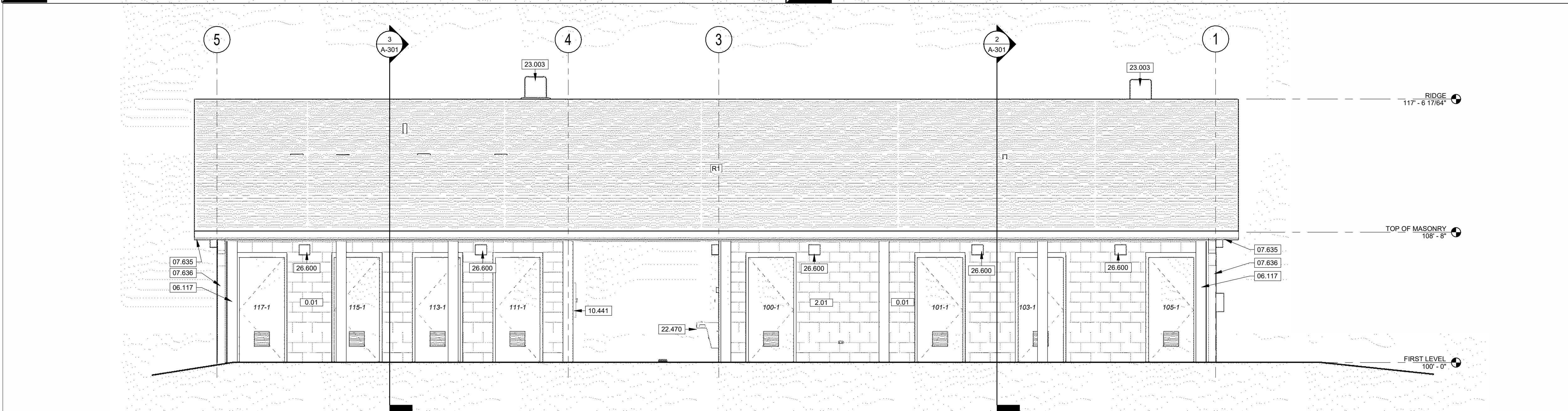
4 WEST EXTERIOR ELEVATION
SCALE 1/4" = 1'-0"



3 NORTH EXTERIOR ELEVATION
SCALE 1/4" = 1'-0"



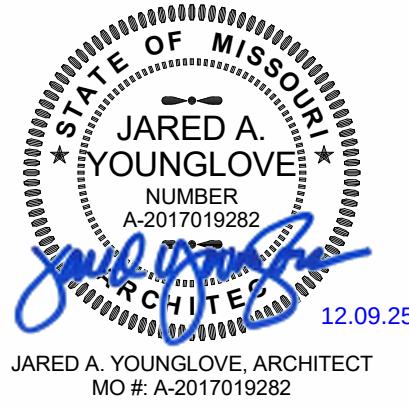
2 SOUTH EXTERIOR ELEVATION
SCALE 1/4" = 1'-0"



1 EAST EXTERIOR ELEVATION
SCALE 1/4" = 1'-0"

KEYNOTE LEGEND	
06.117	STRUCTURAL WOOD COLUMN. SEE STRUCTURAL.
07.635	6" X 6" CLASSIC GUTTER WITH SLOPED STRAPS AT 24" O.C. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.636	5" DIAMETER PREFINISHED DOWNSPOUT. PROVIDE CONCRETE SPLASH BLOCK AT GRADE. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
10.441	SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.
22.470	DRINKING FOUNTAIN. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
23.003	HVAC EXHAUST FAN. SEE DIVISION 23.0000 SPECIFICATIONS.
26.004	ELECTRICAL EQUIPMENT. SEE MEP.
26.600	EXTERIOR LIGHTING. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.
ROOF SCHEDULE	
R1	#30 ASPHALT SHINGLE OVER FELT WITH 48" WIDE ICE AND WATER SHIELD AT ALL ROOF EDGES, RIDGES, VALLEYS, AND ALL VERTICAL WALL TO ROOF INTERSECTIONS OVER ROOF SHEATHING OVER TRUSSES.
WALL SCHEDULE	
0.01	8" GROUND FACE CMU RUNNING BOND
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BARRIER OVER WALL SHEATHING OVER GABLE END TRUSS
0.04	2 X 6 WOOD FRAMING AT 16" O.C. WITH 5/8" GYPSUM BOARD FINISHED SIDE
2.01	8" CMU RUNNING BOND- 2 HR
W1	STOREFRONT ASSEMBLY - 2" X 4.5" MULLIONS WITH CENTER SET GLAZING

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-20080001
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025 ©
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC, AND SHALL BE USED ONLY FOR THE
PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

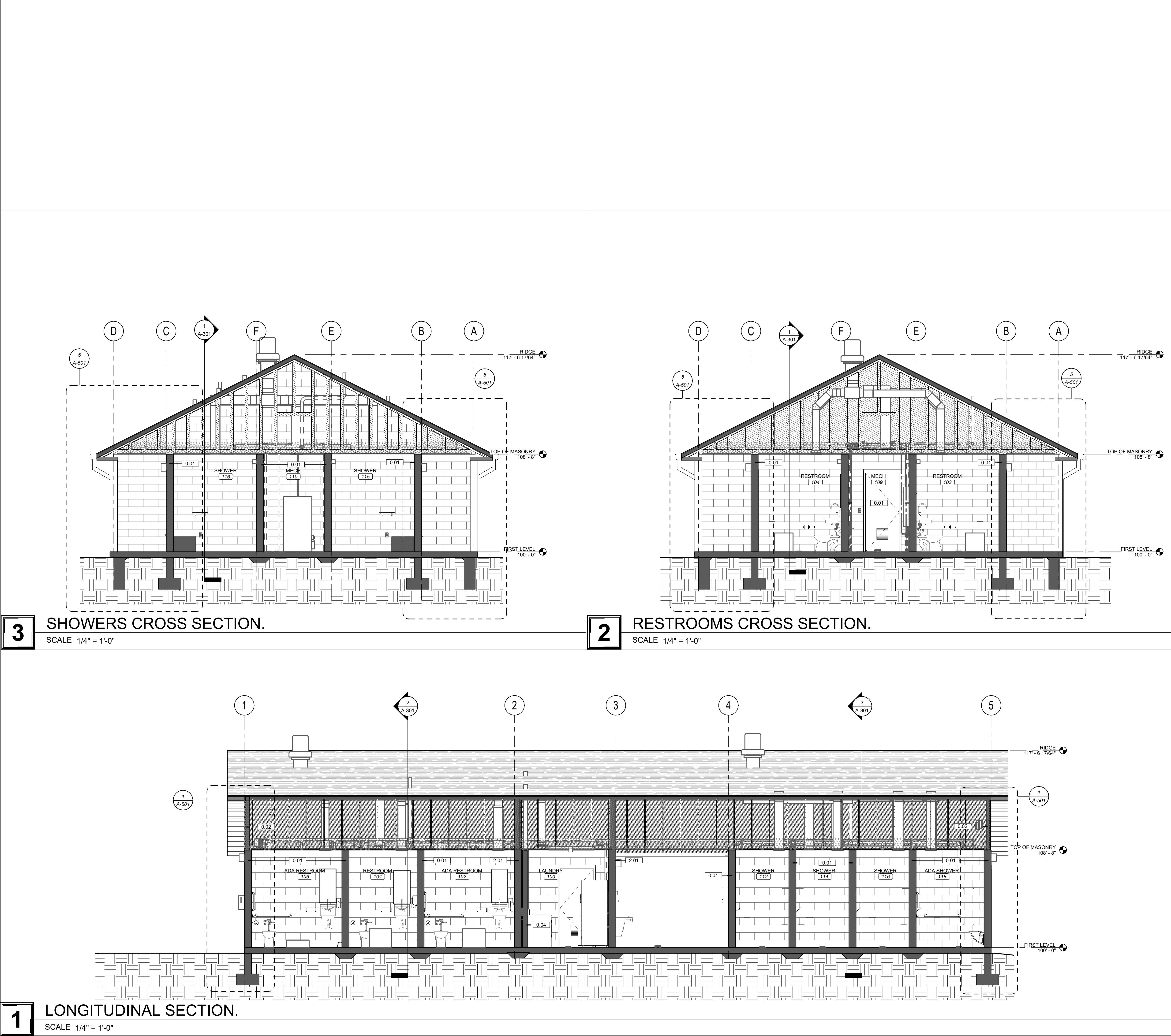
PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
EXTERIOR
ELEVATIONS

SHEET NUMBER:

A-201

20 OF 71 SHEETS
10/24/2025



WALL SCHEDULE	
0.01	8" GROUND FACE CMU RUNNING BOND
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BARRIER OVER WALL SHEATHING OVER GABLE END TRUSS
0.04	2 X 6 WOOD FRAMING AT 16" O.C. WITH 5/8" GYPSUM BOARD FINISHED SIDE
2.01	8" CMU RUNNING BOND- 2 HR
W1	STOREFRONT ASSEMBLY - 2" X 4.5" MULLIONS WITH CENTER SET GLAZING

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
JARED A. YOUNGLOVE
NUMBER
A-2017019282
12.09.25
JARED A. YOUNGLOVE, ARCHITECT
MO # A-2017019282

PROFESSIONAL SEAL

PARAGON
P
ARCHITECTURE

MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-20080001
637 COLLEGE STREET
SPRINGFIELD, MO 65806
PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025 ©
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC, AND SHALL BE USED ONLY FOR THE
PROJECT REFERENCED BELOW

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

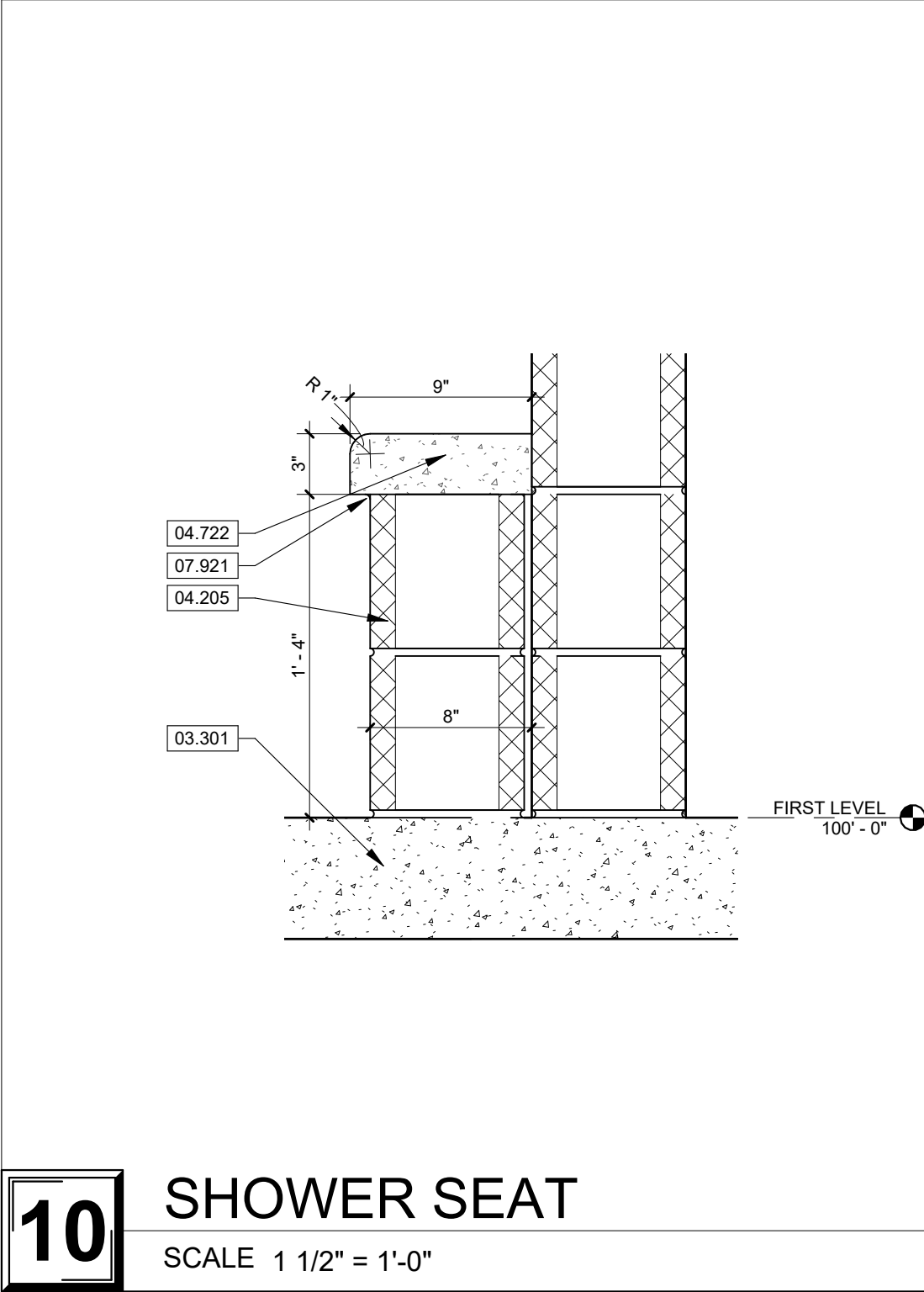
REVISION SCHEDULE

ISSUE DATE: 10/24/2025

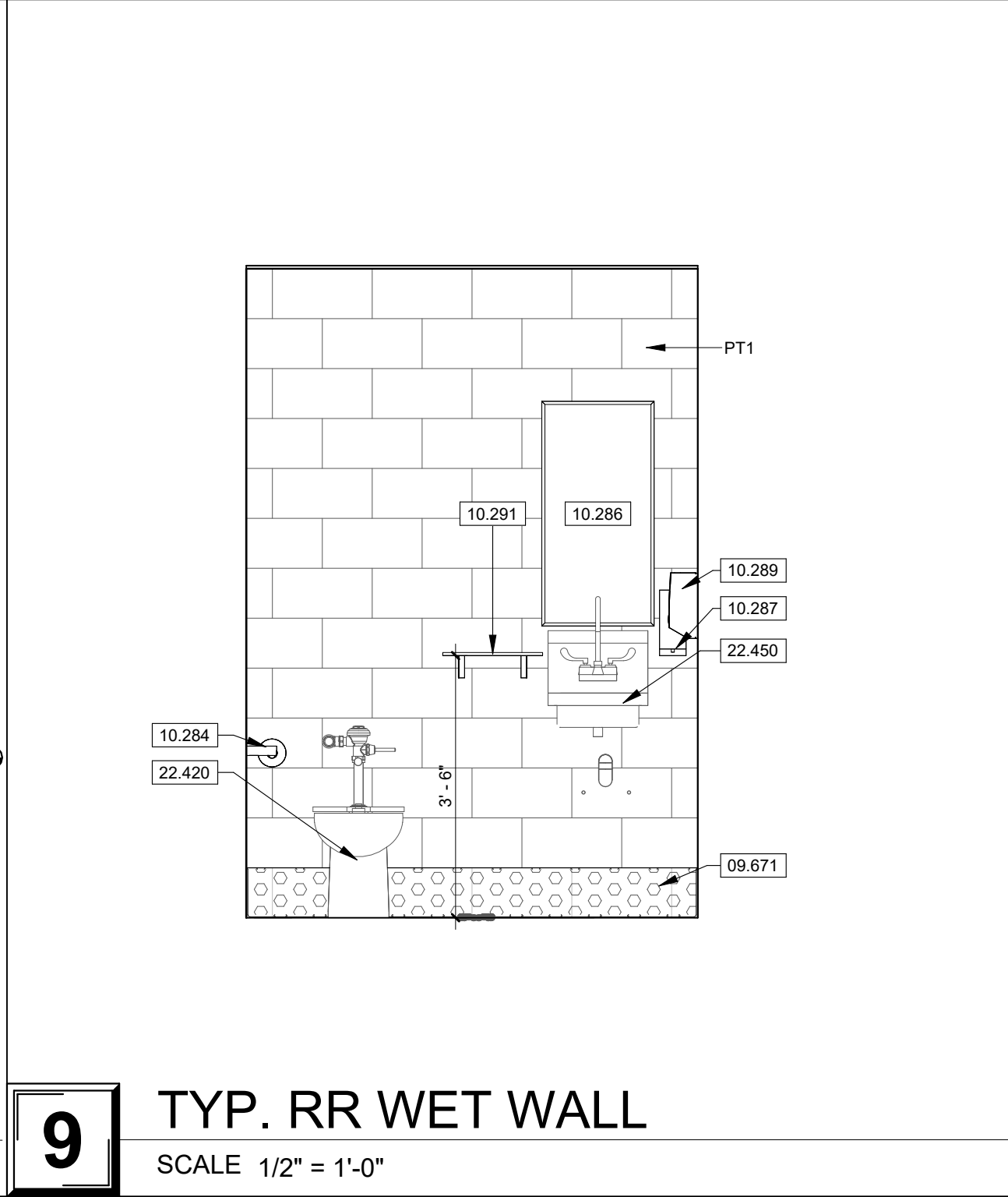
PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
BUILDING
SECTIONS

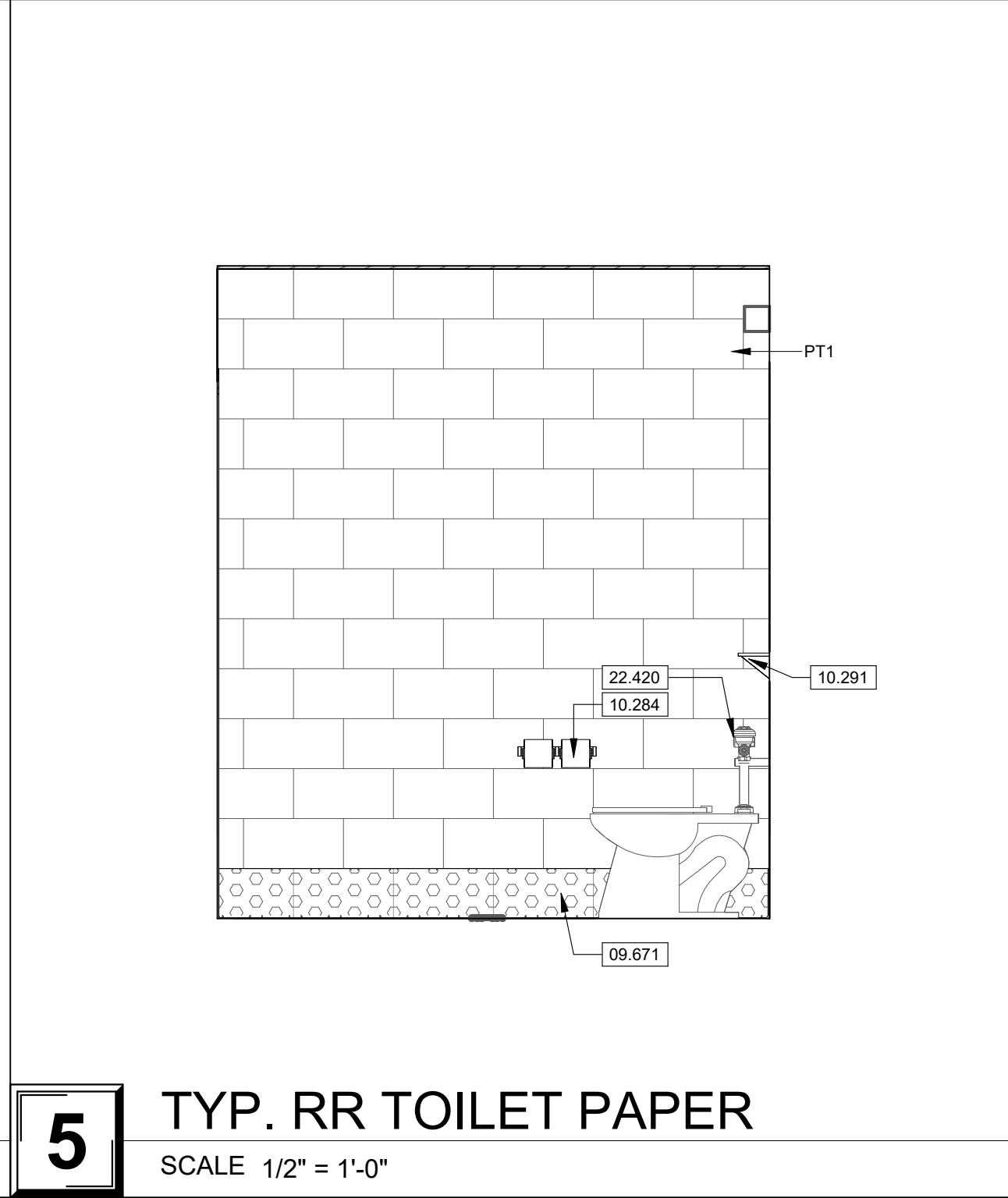
SHEET NUMBER:
A-301
21 OF 71 SHEETS
10/24/2025



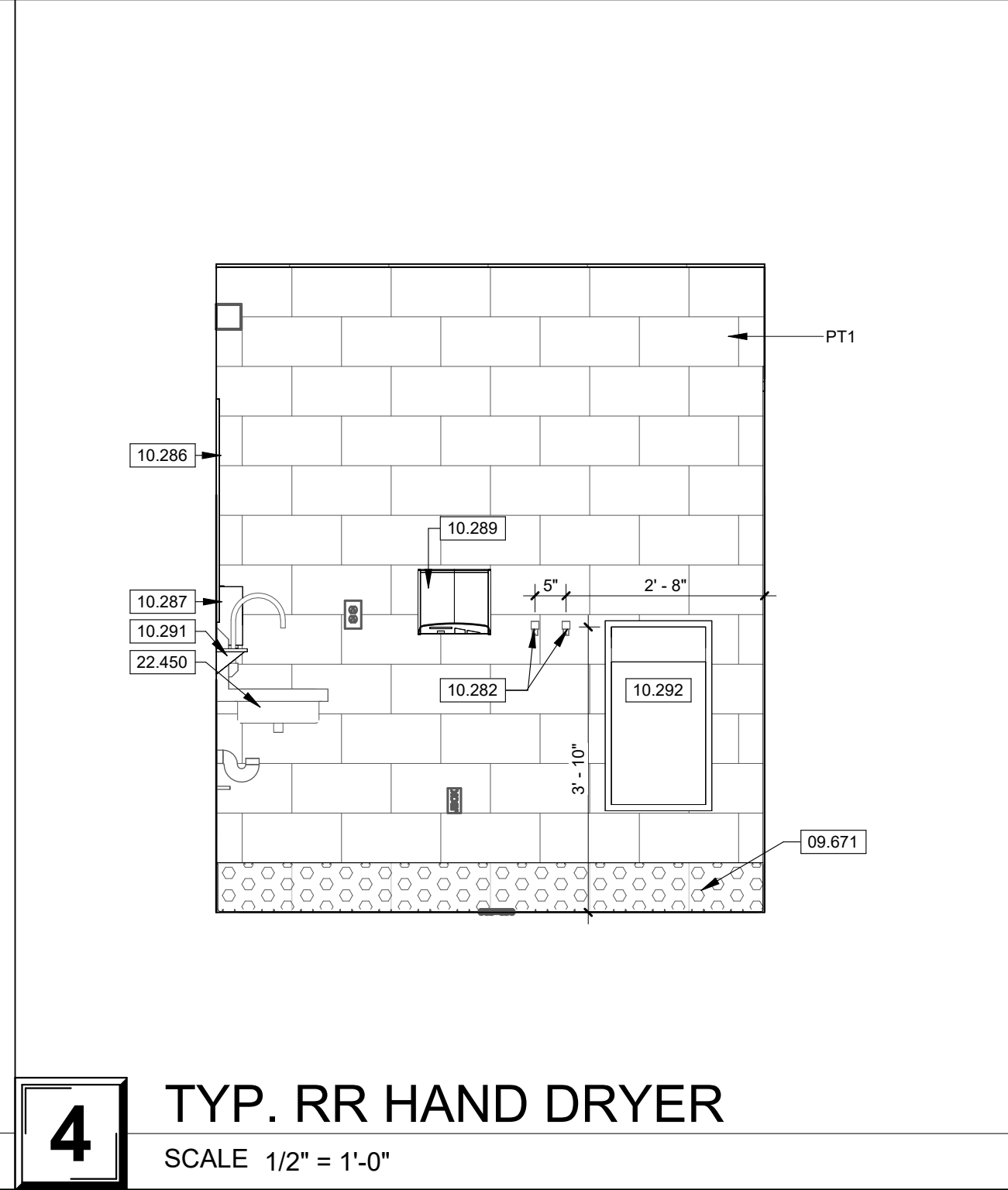
10 SHOWER SEAT
SCALE 1 1/2" = 1'-0"



9 TYP. RR WET WALL
SCALE 1/2" = 1'-0"

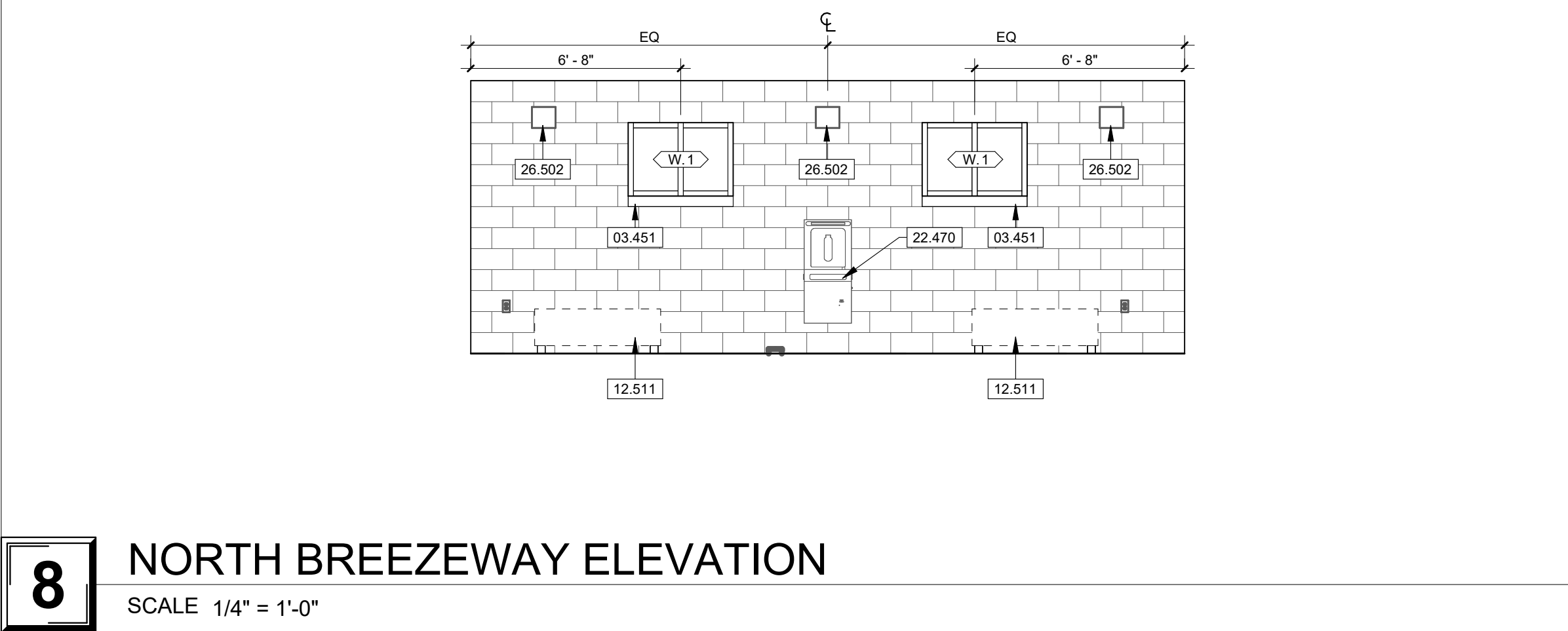


5 TYP. RR TOILET PAPER
SCALE 1/2" = 1'-0"

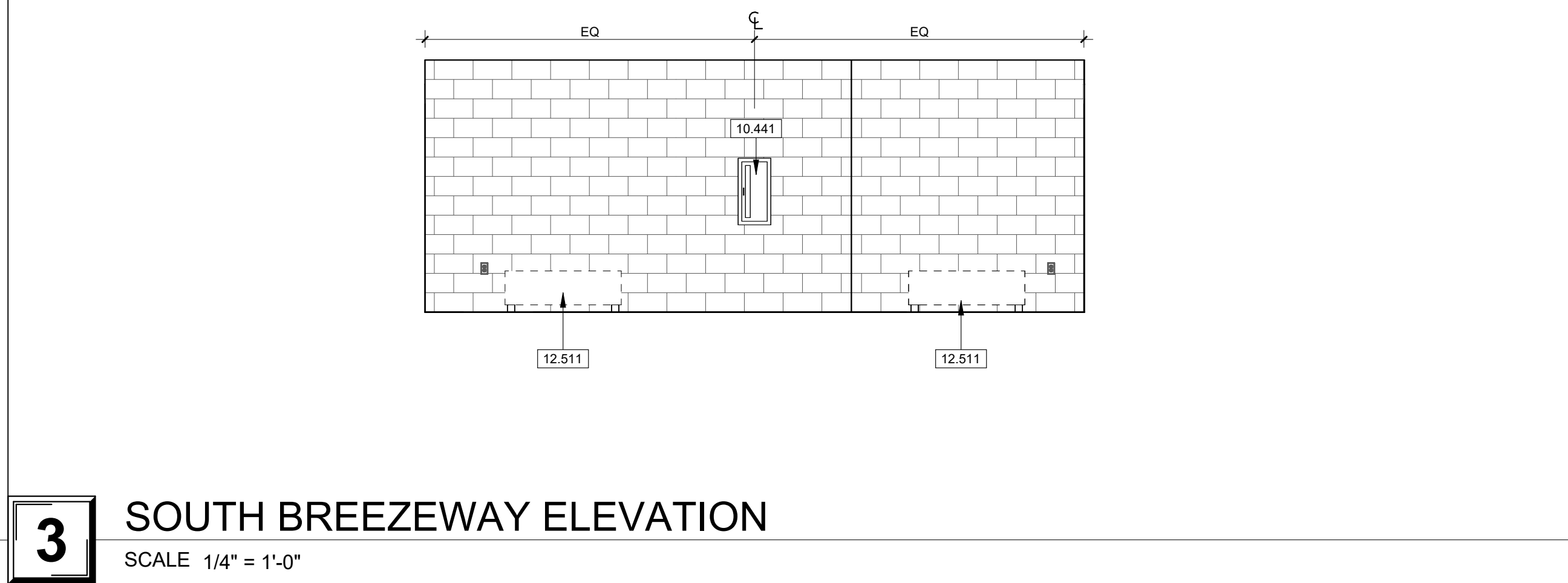


4 TYP. RR HAND DRYER
SCALE 1/2" = 1'-0"

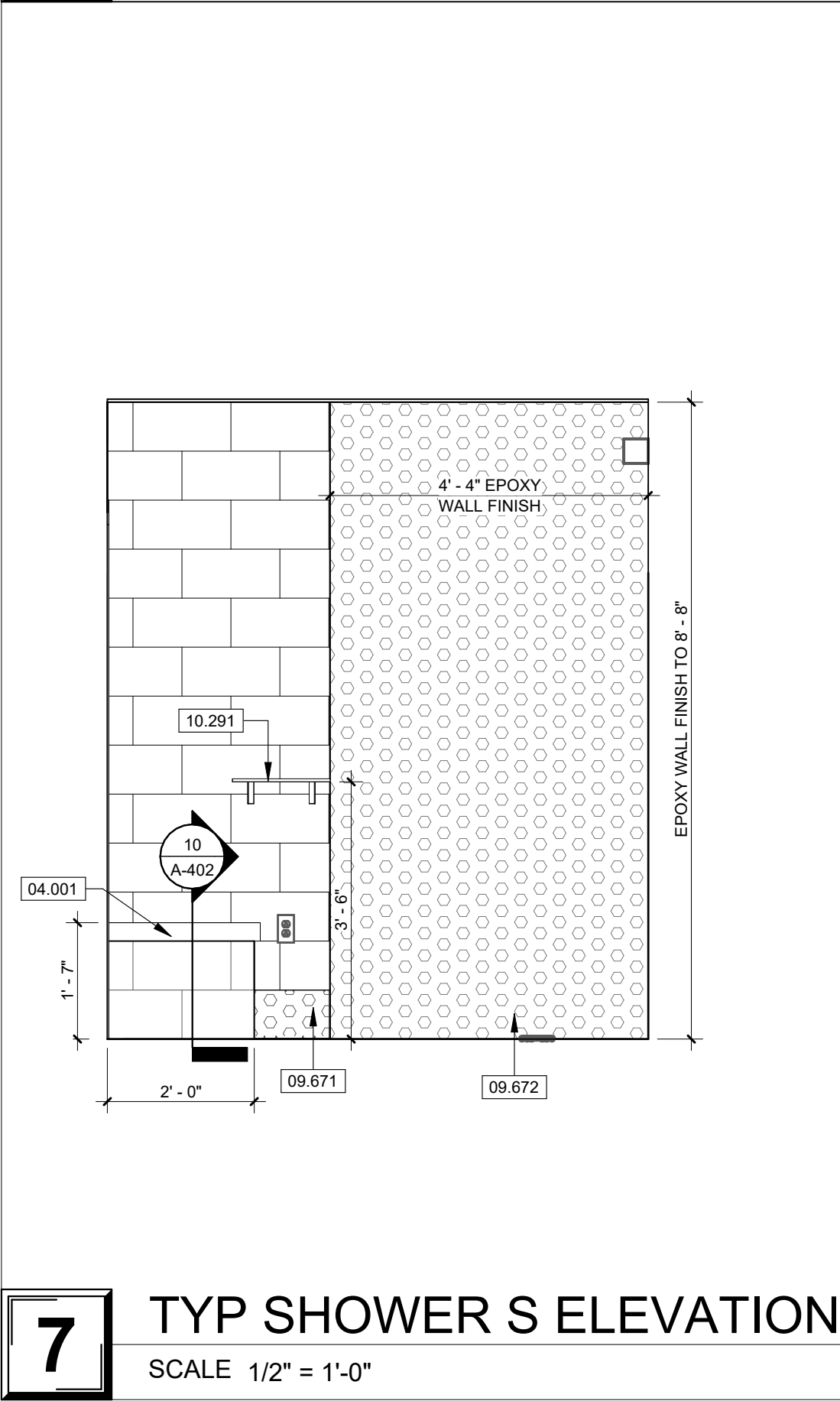
KEYNOTE LEGEND	
03.301	REINFORCED CONCRETE SLAB. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.451	4" THICK PRECAST CONCRETE SILL. SEE SECTION 03.4500 PRECAST ARCHITECTURAL CONCRETE.
04.001	CMU BLOCK BENCH WITH ARCHITECTURAL CAST STONE TOP.
04.205	BOND BEAM. SEE SECTION 04.2000 UNIT MASONRY.
04.722	3" ARCHITECTURAL CAST STONE BENCH WITH RADIUS AT TOP EXPOSED CORNERS. SEE SECTION 04.7200 CAST STONE MASONRY.
07.921	CONTINUOUS JOINT SEALANT. SEE SECTION 07.9200 JOINT SEALANTS.
09.671	6" INTEGRAL EPOXY BASE. SEE FINISH PLAN.
09.672	EPOXY WALL FINISH. SEE FINISH PLAN.
10.282	SURFACE MOUNTED HOOK. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. MOUNTING HEIGHT TO BE 46" A.F.F. TO CENTER OF HOOK TYPICAL.
10.283	ADA SHOWER SEAT. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.284	OFICI WALL MOUNTED TOILET TISSUE DISPENSER. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.286	WALL MOUNTED MIRROR. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.287	OFICI WALL MOUNTED SOAP DISPENSER. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.289	HAND DRYER, SURFACE MOUNTED. SEE 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE MEP. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.290	ADA SHOWER GRAB BARS. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.291	STAINLESS STEEL SHELF. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. MOUNTING HEIGHT TO BE 46" A.F.F. TO CENTER OF HOOK TYPICAL.
10.292	OFICI WALL MOUNTED TRASH CAN. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.441	SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.
12.511	BENCH, OFCI
22.420	WATER CLOSET. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
22.450	SINK. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
22.470	DRINKING FOUNTAIN. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
23.002	DUCTWORK. SEE MEP.
26.502	WALL LIGHTING. SEE MEP.



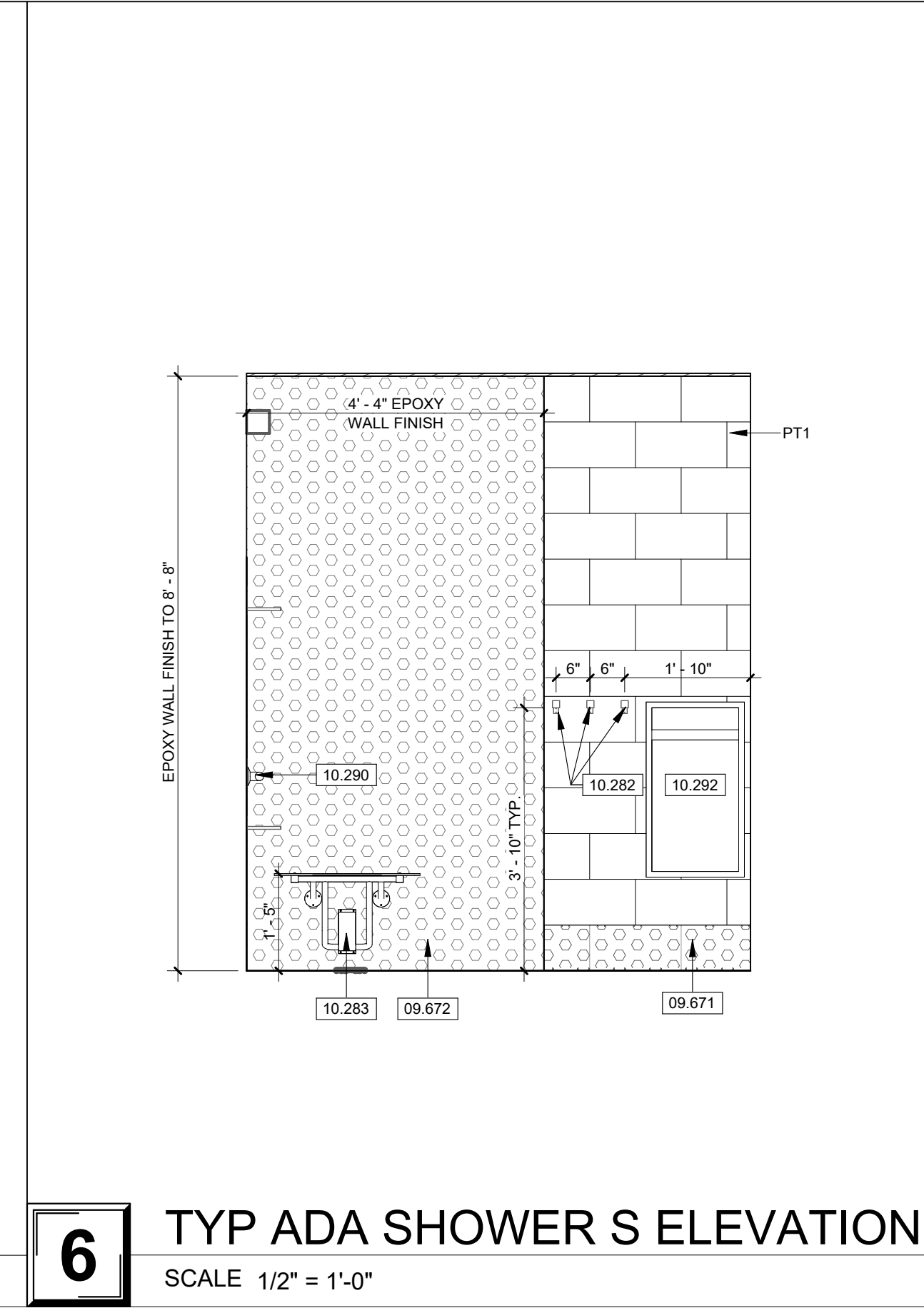
8 NORTH BREEZEWAY ELEVATION
SCALE 1/4" = 1'-0"



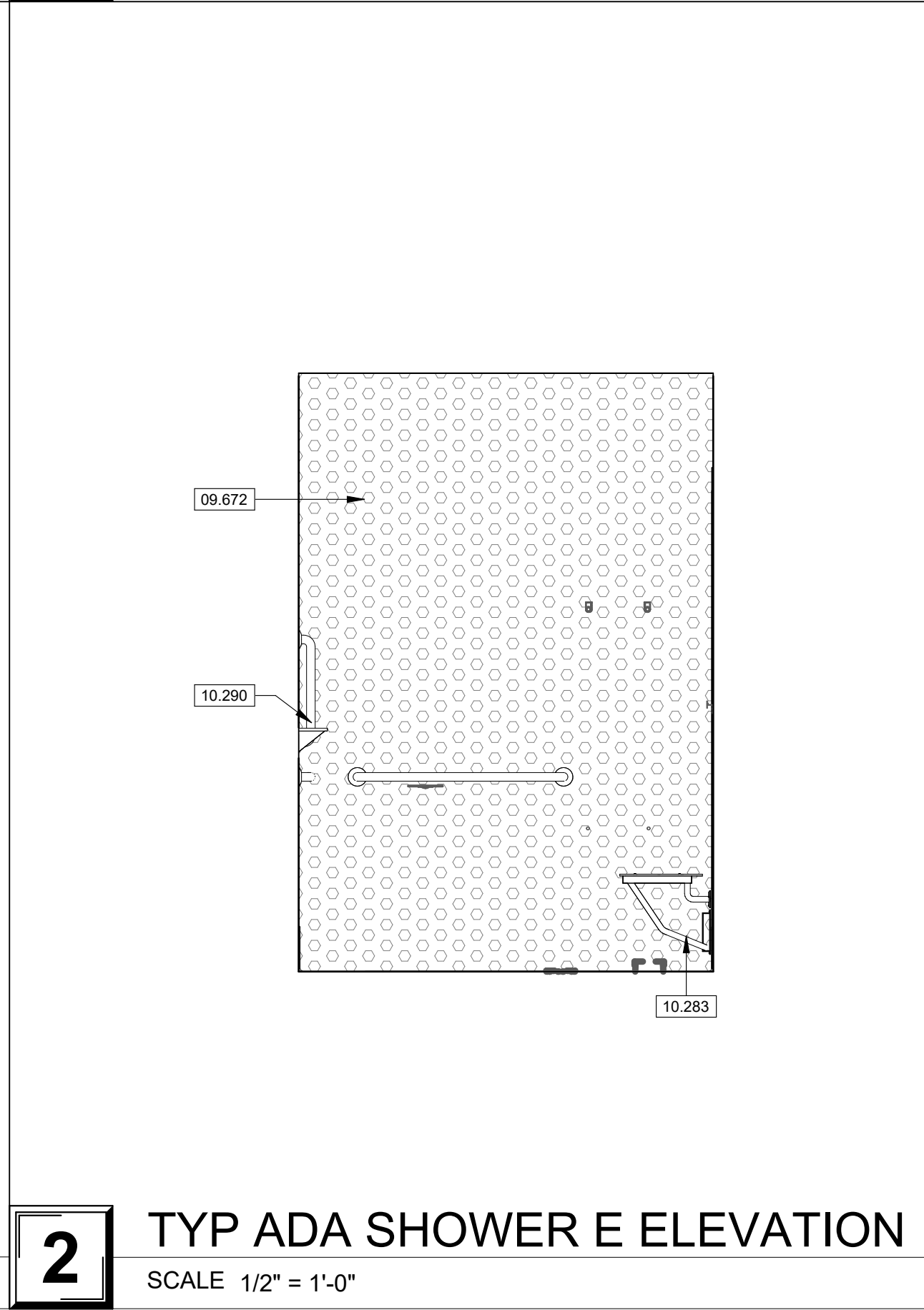
3 SOUTH BREEZEWAY ELEVATION
SCALE 1/4" = 1'-0"



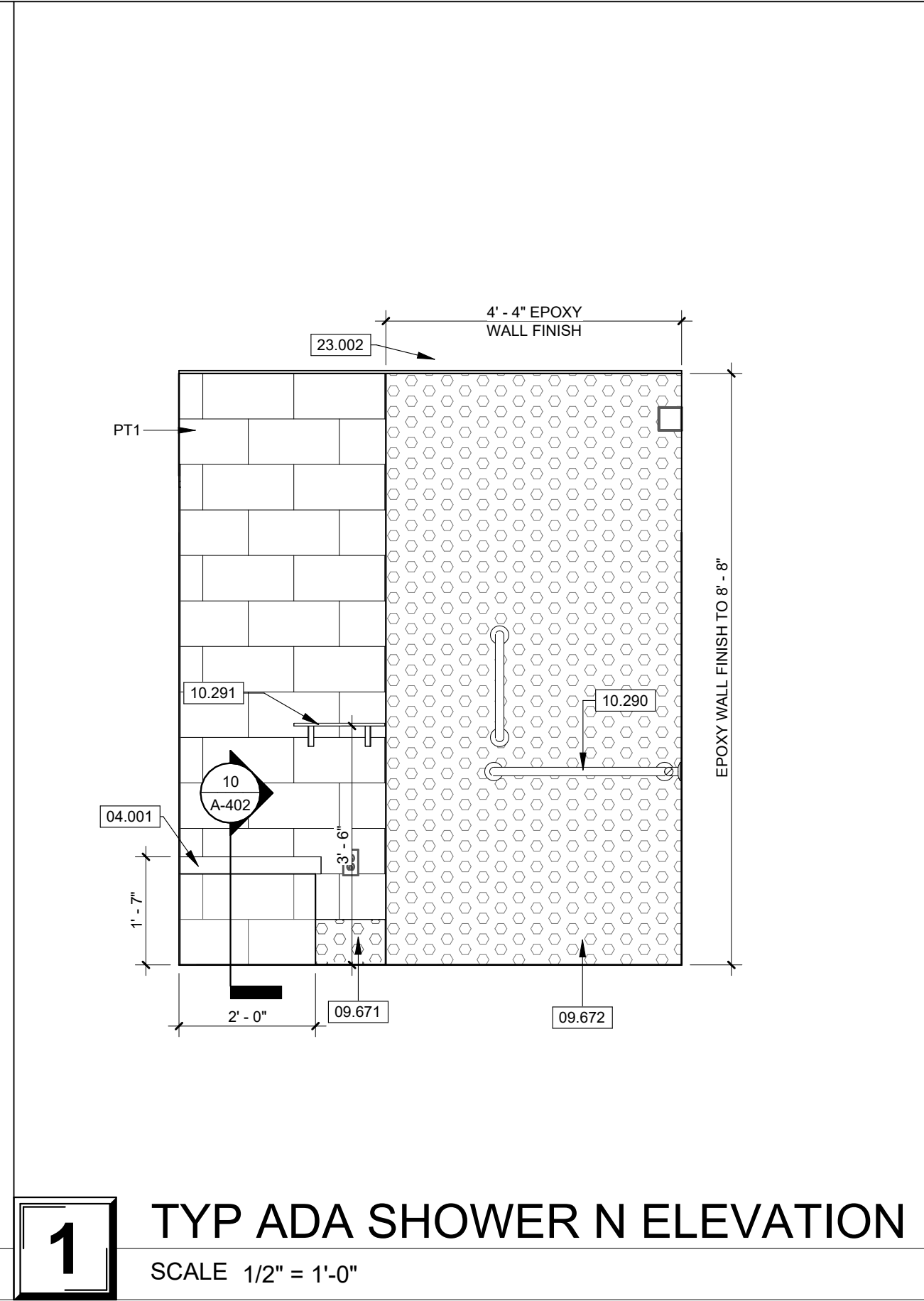
7 TYP SHOWER S ELEVATION
SCALE 1/2" = 1'-0"



6 TYP ADA SHOWER S ELEVATION
SCALE 1/2" = 1'-0"

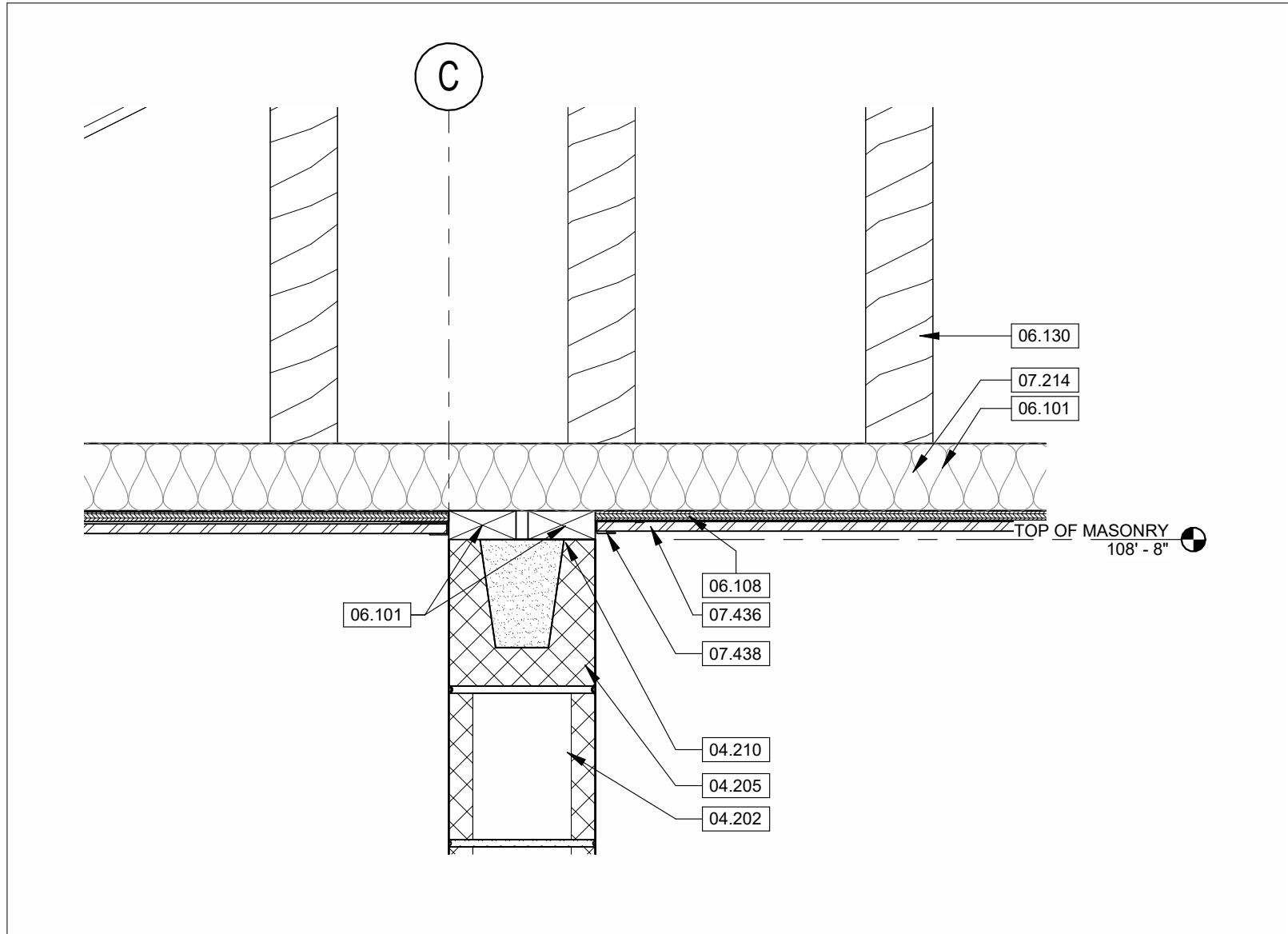


2 TYP ADA SHOWER E ELEVATION
SCALE 1/2" = 1'-0"

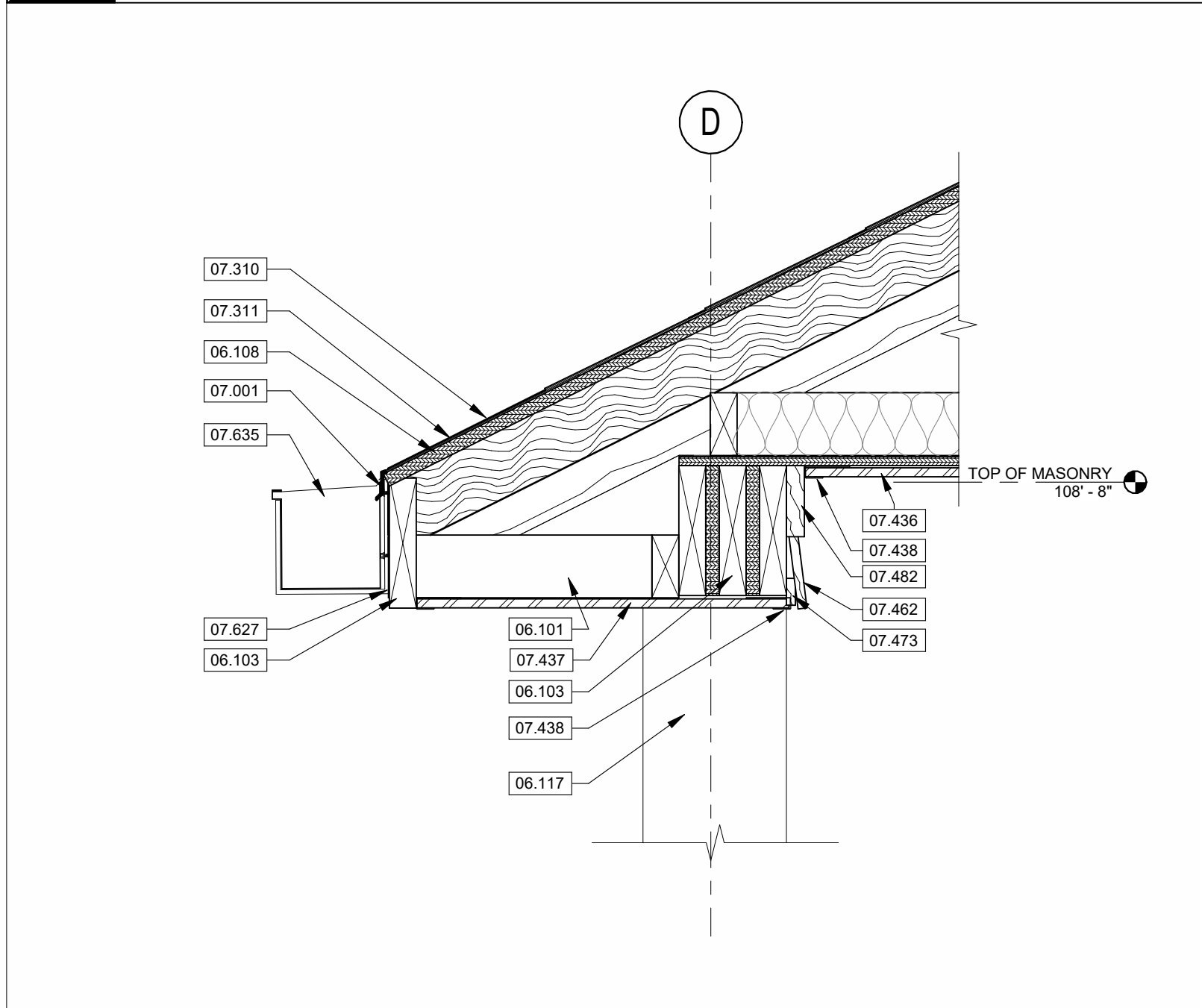


1 TYP ADA SHOWER N ELEVATION
SCALE 1/2" = 1'-0"

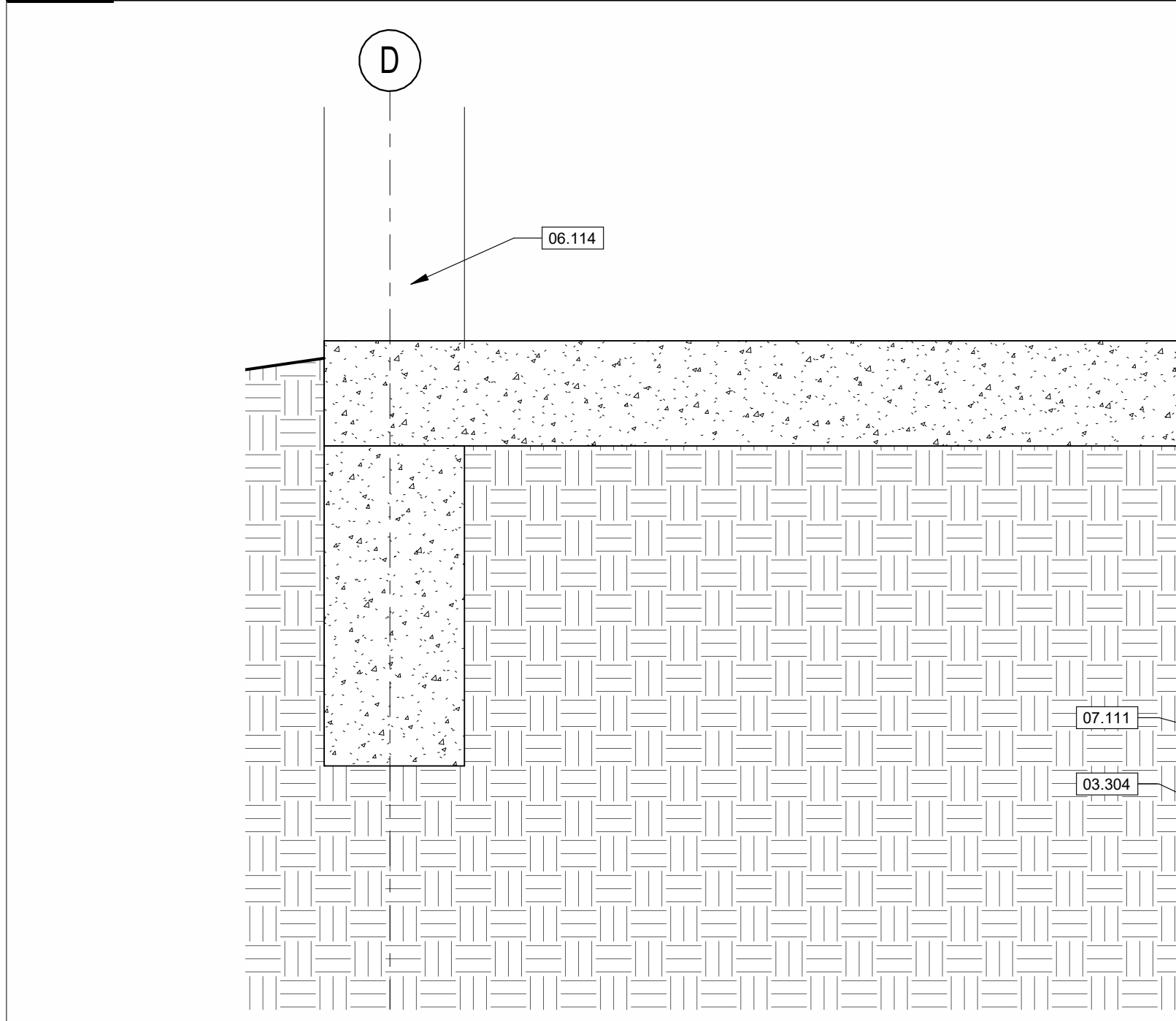




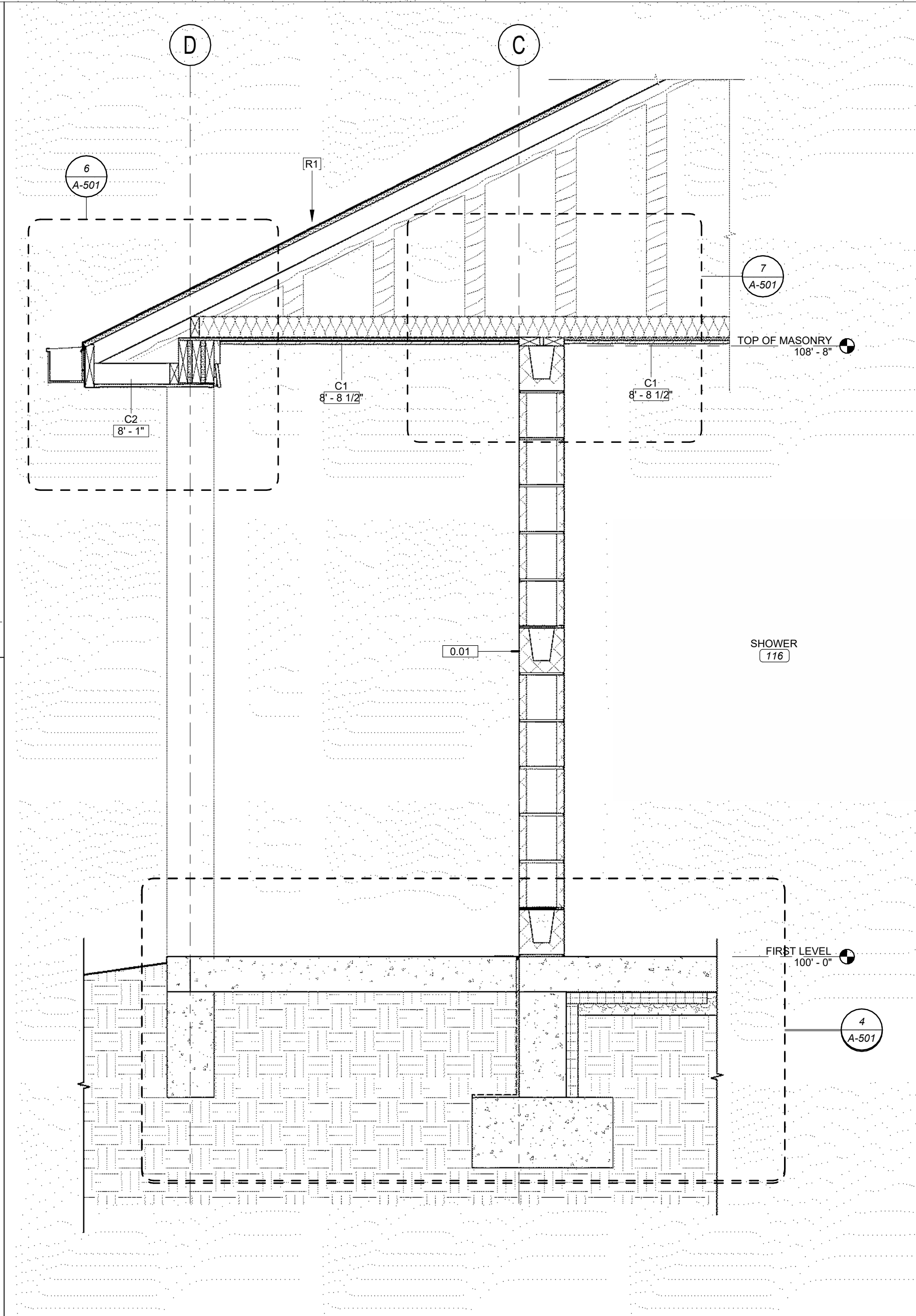
7 TOP OF WALL TYP DTL.
SCALE 1 1/2" = 1'-0"



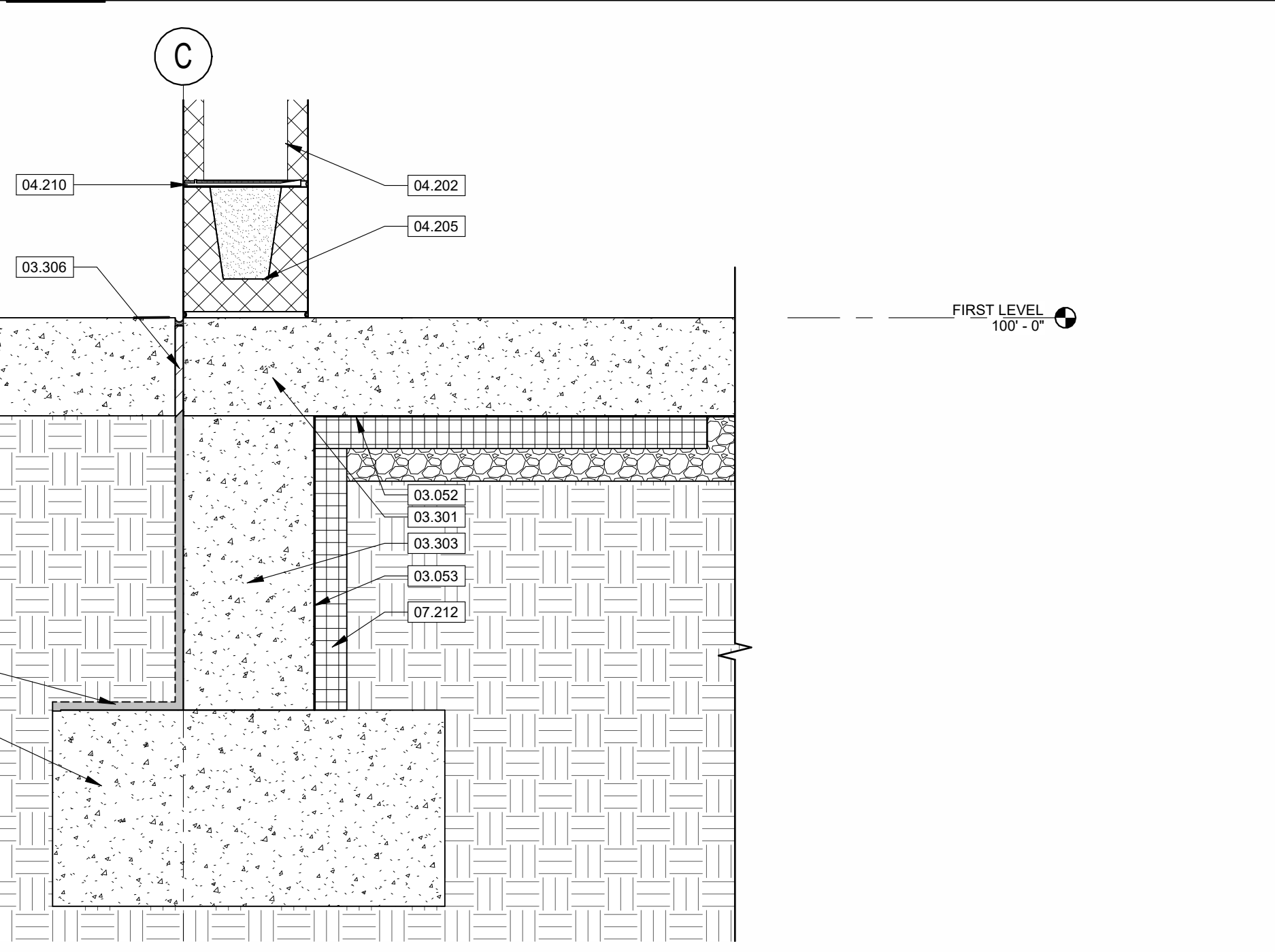
6 TYP GUTTER.
SCALE 1 1/2" = 1'-0"



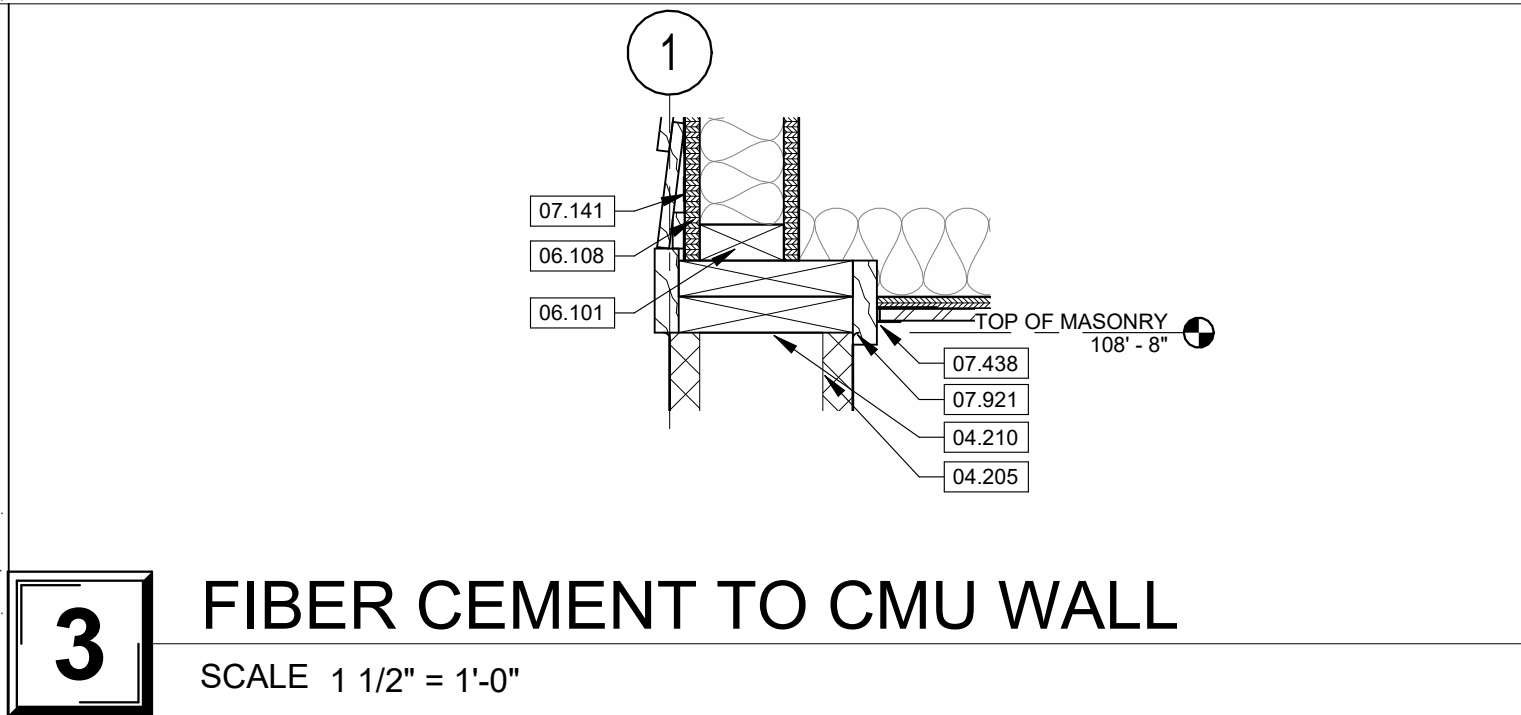
4 TYPICAL FOUNDATION.
SCALE 1 1/2" = 1'-0"



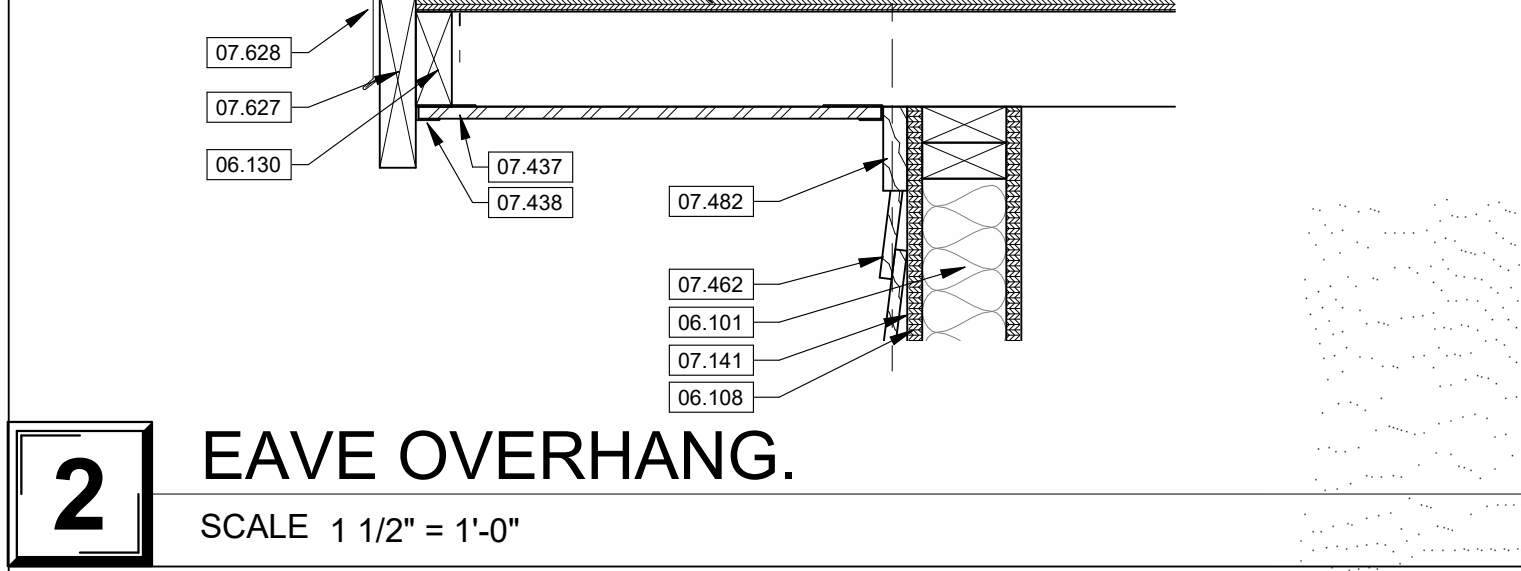
5 RAKE SECTION.
SCALE 3/4" = 1'-0"



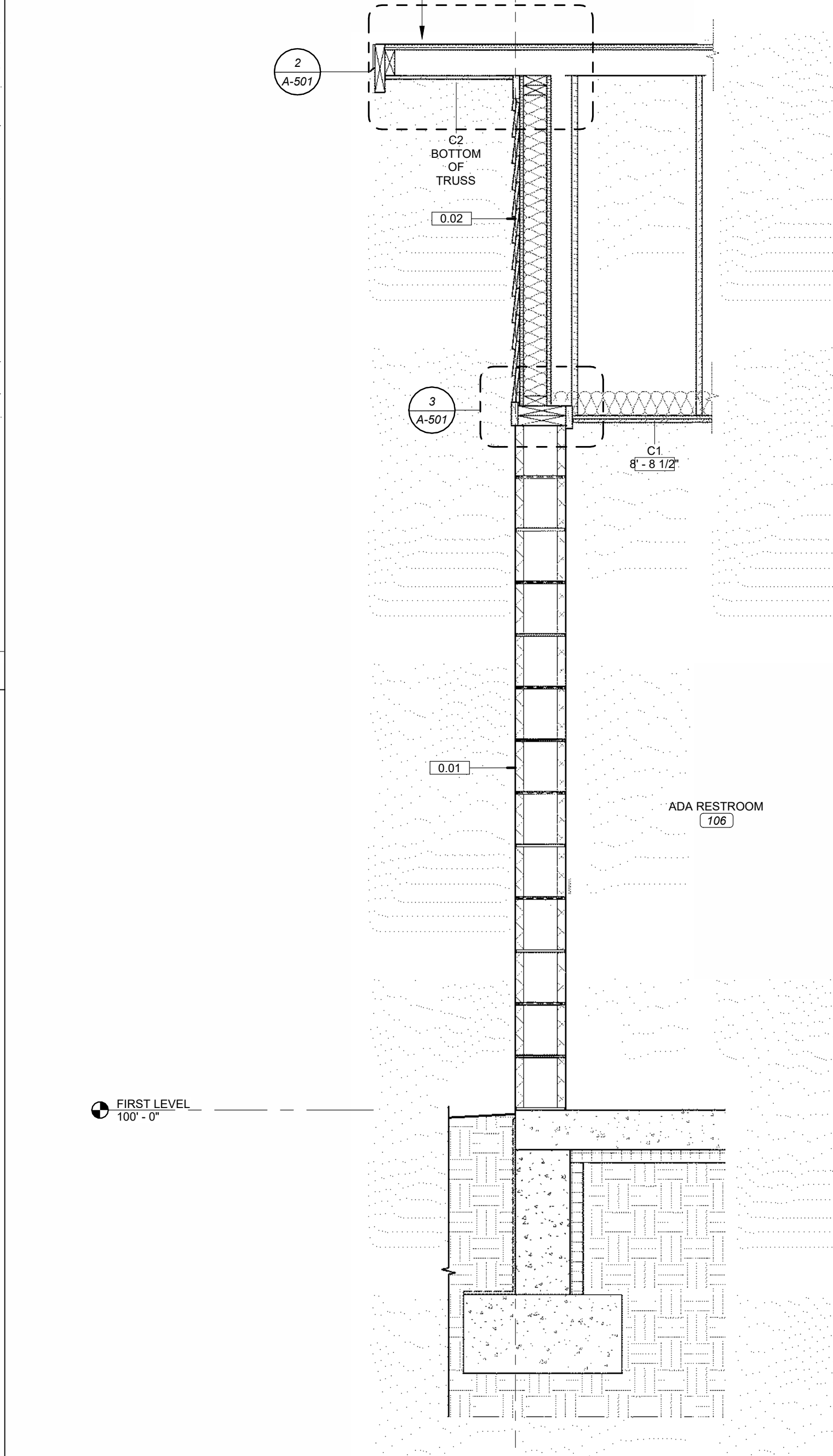
1 EAVE SECTION.
SCALE 3/4" = 1'-0"



3 FIBER CEMENT TO CMU WALL
SCALE 1 1/2" = 1'-0"



2 EAVE OVERHANG.
SCALE 1 1/2" = 1'-0"

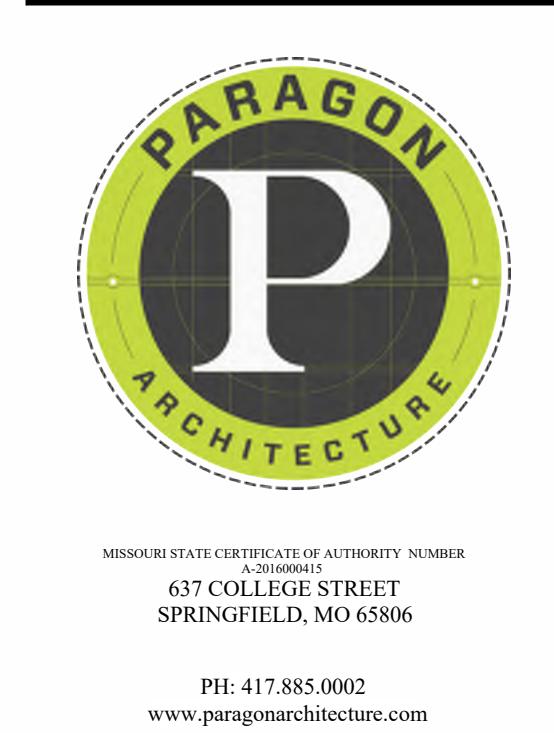


1 EAVE SECTION.
SCALE 3/4" = 1'-0"

KEYNOTE LEGEND	
03.052	15 MIL. VAPOR BARRIER. SEE SECTION 03.0516 UNDERSLAB VAPOR BARRIER.
03.053	EXTEND VAPOR BARRIER TO TOP OF FOOTING. SEE SECTION 03.0516 UNDERSLAB VAPOR BARRIER.
03.301	REINFORCED CONCRETE SLAB. SEE STRUCTURAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.303	CAST-IN-PLACE CONCRETE FOUNDATION WALL. SEE STRUCTURAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.304	CAST-IN-PLACE CONCRETE FOOTING. SEE STRUCTURAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.306	1/2" CONCRETE EXPANSION JOINT FILLER MATERIAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
04.202	8" X 8" X 16" CONCRETE MASONRY UNIT. SEE STRUCTURAL FOR REINFORCING AND BOND BEAM REQUIREMENTS. SEE SECTION 04.2000 UNIT MASONRY.
04.205	BOND BEAM. SEE STRUCTURAL. SEE SECTION 04.2000 UNIT MASONRY.
04.210	BLOCKFLASH BY MORTARNET, OR, APPROVED EQUAL. PROVIDE ABOVE ALL BOND BEAMS AND WALL OPENINGS. TYPICAL. SEE SECTION 04.2000 UNIT MASONRY.
06.101	2X4 WOOD STUD FRAMING AT MAXIMUM 16" O.C. SEE SECTION 06.1000 ROUGH CARPENTRY.
06.103	2X8 DOUBLE TOP PLATE. SEE SECTION 06.1000 ROUGH CARPENTRY.
06.108	PLYWOOD SHEATHING. SEE STRUCTURAL. SEE SECTION 06.1000 ROUGH CARPENTRY.
06.114	COLUMN BEYOND.
06.117	STRUCTURAL WOOD COLUMN. SEE STRUCTURAL.
06.130	WOOD TRUSS SYSTEM. SEE SETRUTURAL.
07.001	CONTINUOUS METAL DRIP EDGE FLASHING.
07.111	BITUMINOUS DAMPROOFING. SEE SECTION 07.1113 BITUMINOUS DAMPROOFING.
07.141	FLUID-APPLIED AIR AND WATER BARRIER. SEE SECTION 07.1400 FLUID-APPLIED WATERPROOFING.
07.212	2" RIGID INSULATION AT BUILDING PERIMETER. RETURN MINIMUM 24" UNDER CONCRETE SLAB. SEE SECTION 07.2100 THERMAL INSULATION.
07.214	ATTIC BATT INSULATION TO BE R-38 MINIMUM. SEE SECTION 07.2100 THERMAL INSULATION.
07.310	ASPHALT SHINGLES. SEE SECTION 07.3113 ASPHALT SHINGLES.
07.311	ASPHALT SHINGLES OVER FELT. PROVIDE 48" WIDE ICE AND WATER SHIELD AT ALL ROOF EDGES, RIDGES, VALLEYS, AND ALL VERTICAL WALL TO ROOF INTERSECTIONS. SEE SPECIFICATION SECTION 07.3113 ASPHALT SHINGLES.
07.436	NON-VENTED ALUMINUM SOFFIT PANEL. SEE SECTION 07.4213 METAL WALL PANELS.
07.437	VENTED ALUMINUM SOFFIT PANEL. SEE SECTION 07.4213 METAL WALL PANELS.
07.438	SOFFIT PANEL CLIP. SEE SECTION 07.4213 METAL WALL PANELS.
07.462	HORIZONTAL FIBER CEMENT SIDING. SEE SECTION 07.4243 COMPOSITE WALL PANELS.
07.473	FIBER CEMENT PANEL STARTER TRACK. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE SECTION 07.4243 COMPOSITE WALL PANELS.
07.482	5/4" X 3-1/2" FIBER CEMENT TRIM BOARD. SEE SECTION 07.4243 COMPOSITE WALL PANELS.
07.627	METAL CLAD 2X8 FASCIA.
07.628	DRIP EDGE FLASHING.
07.635	6" X 6" CLASSIC GUTTER WITH SLOPED STRAPS AT 24" O.C. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.921	CONTINUOUS JOINT SEALANT. SEE SECTION 07.9200 JOINT SEALANTS.

WALL SCHEDULE	
0.01	8" GROUND FACE CMU RUNNING BOND
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BARRIER OVER WALL SHEATHING OVER GABLE END TRUSS
0.04	2 X 6 WOOD FRAMING AT 16" O.C. WITH 5/8" GYPSUM BOARD FINISHED SIDE
2.01	6" CMU RUNNING BOND-2 HR
W1	STOREFRONT ASSEMBLY - 2" X 4.5" MULLIONS WITH CENTER SET GLAZING

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307019

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
WALL DETAILS

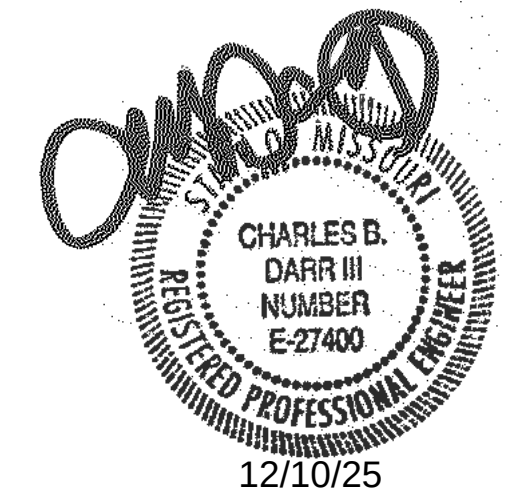
SHEET NUMBER:
A-501

24 OF 71 SHEETS
10/24/2025

SC	FIELD FLOOR FINISH
B1	BASE FINISH
PT1	FIELD PAINT FINISH



THE WORK IS PROTECTED UNDER A COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT CONTRACT ON FILE, OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS IMPLIED USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT, SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USE OF THESE DRAWINGS FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY PARAGON ARCHITECTURE SHALL BE CONSIDERED A VIOLATION OF THE ARCHITECT'S COPYRIGHT AND WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

SHEET TITLE:
GENERAL
PLUMBING AND
MECHANICAL
INFORMATION

SHEET NUMBER:

P-001

ABBREVIATIONS	
GENERAL	MECHANICAL
& AND A AMPERES AD ACCESS DOOR ADA AMERICANS WITH DISABILITIES ACT ADJ ADJUSTABLE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE ALT ALTERNATE ANSI AMERICAN NATIONAL STANDARDS INSTITUTE AP ACCESS PANEL ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS AUTO AUTOMATIC BFR BELOW FLOOR BHP BRAKE HORSE POWER CAP CAPACITY CONT CONTINUOUS DEG DEGREE DIA DIAMETER DN DOWN DTL DETAIL DWG DRAWING EC ELECTRICAL CONTRACTOR EFF EFFICIENCY ELEC ELECTRICAL(AL) EQUIP EQUIPMENT EXIST EXISTING FF FINISHED FLOOR FS FLOW SWITCH FT FEET (FOOT) GYP GYPSUM HOA HAND-OFF-AUTOMATIC HP HORSEPOWER HT HEIGHT IN INCHES KA KILOAMPERE KW KILOWATT LBS POUNDS LF LINEAR FOOT (FEET) MAX MAXIMUM MC MECHANICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPACITY MECH MECHANICAL MFR MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS MOCP MAXIMUM OVERCURRENT PROTECTION N/A NOT APPLICABLE NC NORMALLY CLOSED NEC NATIONAL ELECTRIC CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NIC NOT IN CONTRACT NO NORMALLY OPEN NTS NOT TO SCALE OC ON CENTER OFC OWNER FURNISHED CONTRACTOR INSTALLED OFOI OWNER FURNISHED OWNER INSTALLED PEMB PRE-ENGINEERED METAL BUILDING PH PHASE PLBG PLUMBING RCP REFLECTED CEILING PLAN REF REFERENCE REV REVISION(S) RPM REVOLUTIONS PER MINUTE SCCR SHORT CIRCUIT CURRENT RATING SHT SHEET SPEC SPECIFICATIONS SS STAINLESS STEEL STR STRUCTURAL (STRUCTURE) TC TIME CLOCK TCP TEMPERATURE CONTROL PANEL TEMP TEMPERATURE TYP TYPICAL UG UNDERGROUND UL UNDERWRITERS LABORATORIES UNO UNLESS NOTED OTHERWISE V VOLTAGE (VOLTS) VFC VARIABLE FREQUENCY CONTROLLER VFD VARIABLE FREQUENCY DRIVE W WATT °F DEGREES FAHRENHEIT Ø DIAMETER Φ PHASE	A/C AIR CONDITIONING AHRI AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE APD AIR PRESSURE DROP ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS BAS BUILDING AUTOMATION SYSTEM BFF BELOW FINISHED FLOOR BFP BACK FLOW PREVENTER BFV BUTTERFLY VALVE BMS BUILDING MANAGEMENT SYSTEM BTUH BRITISH THERMAL UNIT PER HOUR BV BALL VALVE CFM CUBIC FEET PER MINUTE CO CLEAN OUT DB DRY BULB DBA DECIBEL A-SOUND LEVELS DDC DIRECT DIGITAL CONTROLS DG DOOR GRILLE DPS DIFFERENTIAL PRESSURE SWITCH DTR DUCT THROUGH ROOF EAT ENTERING AIR TEMPERATURE EER ENERGY EFFICIENCY RATIO ESP EXTERNAL STATIC PRESSURE EWT ENTERING WATER TEMPERATURE EXH EXHAUST FLEX FLEXIBLE FME FLOW MEASURING EQUIPMENT FPI FINS PER INCH FPM FEET PER MINUTE G/E GREASE EXHAUST AIR GAL GALLON GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GV GATE VALVE HVAC HEATING VENTILATING AND AIR CONDITIONING IE INVERT ELEVATION IN WC INCHES OF WATER COLUMN L/E LABORATORY EXHAUST AIR LAT LEAVING AIR TEMPERATURE LWT LEAVING WATER TEMPERATURE M/A MIXED AIR MAV MANUAL AIR VENT MBH THOUSAND BTU PER HOUR NC NOISE CRITERIA NSF NATIONAL SANITATION FOUNDATION OS&Y OUTSIDE SCREW AND YOKE P/T PRESSURE/TEMPERATURE TEST PORT PD PRESSURE DROP PDI PLUMBING AND DRAINAGE INSTITUTE PG PRESSURE GAUGE PSI POUNDS PER SQUARE INCH RH RELATIVE HUMIDITY SD SMOKE DETECTOR SEER SEASONAL ENERGY EFFICIENCY RATING SENS SENSIBLE SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION SP STATIC PRESSURE T/A TRANSFER AIR TC TEMPERATURE CONTROL TDH TOTAL DYNAMIC HEAD TS TEMPERATURE SENSOR TSP TOTAL STATIC PRESSURE VAV VARIABLE AIR VOLUME VENT VENTILATION VTR VENT THROUGH ROOF VTW VENT THROUGH WALL WB WET BULB WFMD WATER FLOW MEASURING DEVICE

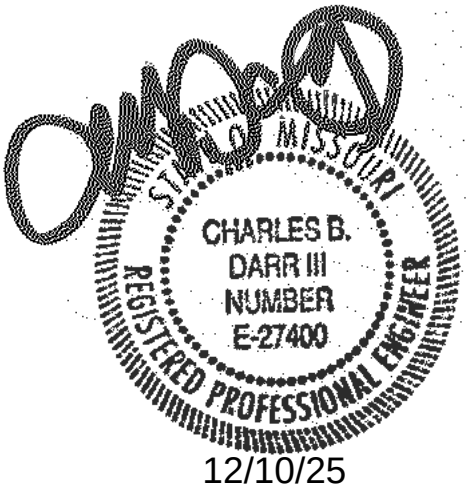
GENERAL SHEET NOTES

- DO NOT ROUTE ITEMS OVER ELECTRICAL PANELS. PROVIDE 3'-6" CLEARANCE IN FRONT OF ELECTRICAL PANELS AND DEVICES FROM FLOOR TO 6'-6" OR TOP OF PANEL AS PER CODE REQUIREMENTS.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL OFFSETS REQUIRED FOR COMPLETE SYSTEM.
- UNLESS NOTED/SHOWN OTHERWISE, ALL DUCTWORK AND PIPING SHALL BE RUN AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE WHERE FEASIBLE. RUN DUCTS AND PIPING UP IN JOIST SPACE WHERE INDICATED AND AS REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION. VALVES AND OTHER MAINTENANCE ITEMS SHALL NOT BE INSTALLED HIGHER THAN 2 FEET ABOVE CEILINGS.
- LOCATE EQUIPMENT TO ALLOW ACCESS FOR ADJUSTMENT AND SERVICING. REFER TO INSTALLATION MANUALS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THESE DRAWINGS. LOCATE HANGING EQUIPMENT WITHIN THE SPACE SO THAT MAINTENANCE ACCESS IS PROVIDED FROM BELOW, AND MAINTENANCE AREA AROUND AND ACCESS AREA BELOW IS FREE OF OBSTRUCTIONS INCLUDING PIPING, DUCTWORK, CONDUIT OR OTHER BUILDING ELEMENTS.
- ROUTE ALL PIPING IN MECHANICAL ROOMS TO PROVIDE A MINIMUM OF 8'-0" CLEARANCE FROM BOTTOM OF DUCT, PIPE, INSULATION, OR HANGERS TO FINISHED FLOOR. DO NOT INSTALL PIPING IN THE SERVICE AREA FOR EQUIPMENT INSTALLED BY OTHERS.
- DASHED LINES AROUND EQUIPMENT INDICATE MINIMUM REQUIRED SERVICE CLEARANCES. DO NOT INSTALL HVAC, PIPING, AND ELECTRICAL ITEMS IN THESE AREAS.
- COORDINATE UNDERGROUND PIPING WITH STRUCTURAL FOOTINGS, SITE UTILITIES SERVICES, AND BUILDING SERVICES. FIELD VERIFY LOCATION OF ALL UTILITIES AND EXACT DIMENSIONS DURING BIDDING PORTION OF PROJECT. NOTIFY ANY DISCREPANCY OR INTERFERENCE TO ENGINEER.
- ALL DUCT FITTINGS WHERE TURN IS GREATER THAN 30-DEGREES SHALL BE PROVIDED WITH TURNING VANES UNLESS NOTED OTHERWISE.
- COORDINATE MASONRY WALL LINTEL LOCATIONS WITH STRUCTURAL PLANS.
- ALL DUCT SEAMS SHALL BE SEALED.
- KEEP ALL DUCT OPENINGS AND AIR DEVICES COVERED AIR-TIGHT UNTIL ALL DUST CREATING ACTIVITY HAS BEEN FINISHED AND EQUIPMENT IS READY FOR START-UP.

MECHANICAL SHEET LIST

SHEET NO.	SHEET NAME
P-001	GENERAL PLUMBING AND MECHANICAL INFORMATION
P-101	PLUMBING PLANS
P-501	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES
M-101	HVAC PLAN
M-601	MECHANICAL SCHEDULES AND DETAILS

MECHANICAL SYMBOL LEGEND			
GENERAL		HVAC	
EXISTING DEMOLITION NEW TAG NEW SCHEDULED EQUIPMENT TAG EXISTING EQUIPMENT NEW TO EXISTING # SHEET KEYNOTE Δ REVISION DELTA PIPE UP OR DUCT UP PIPE OR DUCT DOWN	PIPE OR DUCT DOWN PIPE OR DUCT CAP PIPE ANCHOR PIPE GUIDE PIPE ROLLER SUPPORT FLOW DIRECTION ARROW FLEXIBLE CONNECTOR CONCENTRIC REDUCER ECCENTRIC REDUCER	CEILING DIFFUSER CEILING DIFFUSER, HATCH INDICATES BLANK-OFF PANEL LINEAR DIFFUSER SUPPLY REGISTER RETURN AIR GRILLE RETURN AIR GRILLE EXHAUST AIR GRILLE THERMOSTAT HUMIDISTAT CARBON DIOXIDE SENSOR RECTANGULAR DUCT (WxH) ROUND DUCT (DIA.) OVAL DUCT (W/H)	SUPPLY AIR/OUTSIDE AIR UP AND DOWN RETURN AIR UP AND DOWN EXHAUST AIR UP AND DOWN MANUAL VOLUME DAMPER MOTORIZED DAMPER BACKDRAFT DAMPER FIRE DAMPER SMOKE DAMPER COMBINATION FIRE AND SMOKE DAMPER TURNING VANES HCG HARDWARE CLOTH GRILLE VOLUME EXTRACTOR
SANITARY & DOMESTIC		VALVES	
SANITARY DRAIN BELOW GRADE (PLAN) SANITARY DRAIN ABOVE GRADE (PLAN) COLD WATER (CW) HOT WATER (HW) HOT WATER CIRCULATING (HWC) 140 HW 140°F DOMESTIC HOT WATER 140 HWC 140°F DOMESTIC HOT WATER CIRCULATING T TEMPERED WATER TC TEMPERED WATER CIRCULATING V VENT VBF VENT BELOW FLOOR AV ACID VENT	ACID WASTE (ABOVE GRADE) ACID WASTE (BELOW GRADE) CONDENSATE DRAIN PIPING ROOF DRAIN (ABOVE GRADE) ROOF DRAIN (BELOW GRADE) OVERFLOW DRAIN (ABOVE GRADE) OVERFLOW DRAIN (BELOW GRADE) SOFT COLD WATER SOFT HOT WATER SUB-SOIL DRAIN (DRAIN TILE) FORCE MAIN (PUMP DISCHARGE)	T&P RELIEF VALVE ISOLATION VALVE ISOLATION VALVE IN VERTICAL POSITION CHECK VALVE BALANCING VALVE MOTORIZED 2-WAY VALVE MOTORIZED 3-WAY VALVE	PRESSURE REDUCING & REGULATING VALVE PRESSURE REGULATING VALVE DIAPHRAGM VALVE ANGLE VALVE STRAINER UNION
FIXTURES		FIRE	
WC-1 WATER CLOSET AND TYPE U-1 URINAL AND TYPE L-1/S-1 LAVATORY OR SINK AND TYPE BT-1 BATHTUB AND TYPE SH-1 SHOWER AND TYPE MS-1/SS-1 SERVICE SINK OR MOP SINK AND TYPE EWC-1 ELECTRIC WATER COOLER AND TYPE M METER (GAS, WATER, ETC) VTR VENT THRU ROOF	RD-1 ROOF DRAIN OD-1 OVERFLOW DRAIN ECO EXTERIOR CLEAN OUT FCO FLOOR CLEAN OUT WCO WALL CLEAN OUT CO HORIZ. CLEAN OUT FD-1/FS-1 FLOOR DRAIN OR SINK AND TYPE HB-1 HOSE BIBB WH-1 WALL HYDRANT YH-1 YARD HYDRANT DS-1 DOWNSPOUT NOZZLE	FIRE PROTECTION PIPING FIRE DEPARTMENT CONNECTION DUCT SMOKE DETECTOR AND RELAY TAMPER SWITCH FLOW SWITCH	SPRINKLER HEAD, PENDANT SPRINKLER HEAD, SIDE WALL ALARM VALVE, WET ALARM VALVE, DRY FIRE PROTECTION RISER
HYDRONIC		SPECIALTY SYSTEMS	
CHWR CHILLED WATER RETURN CHWS CHILLED WATER SUPPLY MU MAKE-UP WATER HHWR HEATING WATER RETURN HHWS HEATING WATER SUPPLY HCWR HOT/CHILLED WATER RETURN HCWS HOT/CHILLED WATER SUPPLY HPR HEAT PUMP RETURN HPS HEAT PUMP SUPPLY	CTS COOLING TOWER SUPPLY CTR COOLING TOWER RETURN CR CONDENSER WATER RETURN CS CONDENSER WATER SUPPLY ERR ENERGY RECOVERY RETURN ERS ENERGY RECOVERY SUPPLY AUTOMATIC AIR VENT MANUAL AIR VENT	RO REVERSE OSMOSIS RD REFRIGERANT DISCHARGE FOR FUEL OIL RETURN FOS FUEL OIL SUCTION FOV FUEL OIL VENT G NATURAL GAS LPG LIQUID PETROLEUM GAS A COMPRESSED AIR LR LIQUID REFRIGERANT SR SUCTION REFRIGERANT	RL PAIR REFRIGERANT LINES (SUCTION, LIQUID) P PROPANE A AIR OUTLET VAC VACUUM (AIR) DI DISTILLED WATER LV LABORATORY VACUUM LOX LIQUID OXYGEN LA LABORATORY COMPRESSED AIR DE DEIONIZED WATER
STEAM		MEDICAL GAS	
BBD BOILER BLOW DOWN CD STEAM CONDENSATE DRAIN ABOVE GRADE CD STEAM CONDENSATE DRAIN BELOW GRADE HPC HIGH PRESSURE CONDENSATE HPS HIGH PRESSURE STEAM	LPC LOW PRESSURE CONDENSATE LPS LOW PRESSURE STEAM MPC MEDIUM PRESSURE CONDENSATE MPS MEDIUM PRESSURE STEAM STEAM TRAP	MA MEDICAL COMPRESSED AIR CO2 CARBON DIOXIDE H HELIUM N NITROGEN MEDICAL AIR OUTLET CARBON DIOXIDE OUTLET HELIUM OUTLET NITROGEN OUTLET NITROUS OXIDE OUTLET	N2O NITROUS OXIDE OX OXYGEN MV MEDICAL VACUUM WAGD WASTE ANESTHETIC GAS DISPOSAL OXYGEN OUTLET VACUUM OUTLET VACUUM SLIDE OUTLET WAGD OUTLET ZONE VALVE BOX ARROW INDICATES VALVE ACCESS
SITE			
W WATER SERVICE CURB STOP VALVE SAN SANITARY SEWER (SITE) POST INDICATOR VALVE POST INDICATOR VALVE W/ TAMPER SWITCH FM BUILDING SPRINKLER FIRE MAIN SS STORM SEWER (SITE) SD STORM DRAIN (SITE) THRUST BLOCK LS LAWN SPRINKLER WATER MAIN WELL YHT YARD HYDRANT TREE	WIRE FENCE GAR GAS RISER GM GAS METER ER ELECTRICAL RISER SB SWITCH BOX PRP PROPERTY CORNER CONTROL POINT BENCHMARK MLB MAIL BOXES WDP WOODEN POST TIE DOWN CONCRETE GRAVEL		



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307019

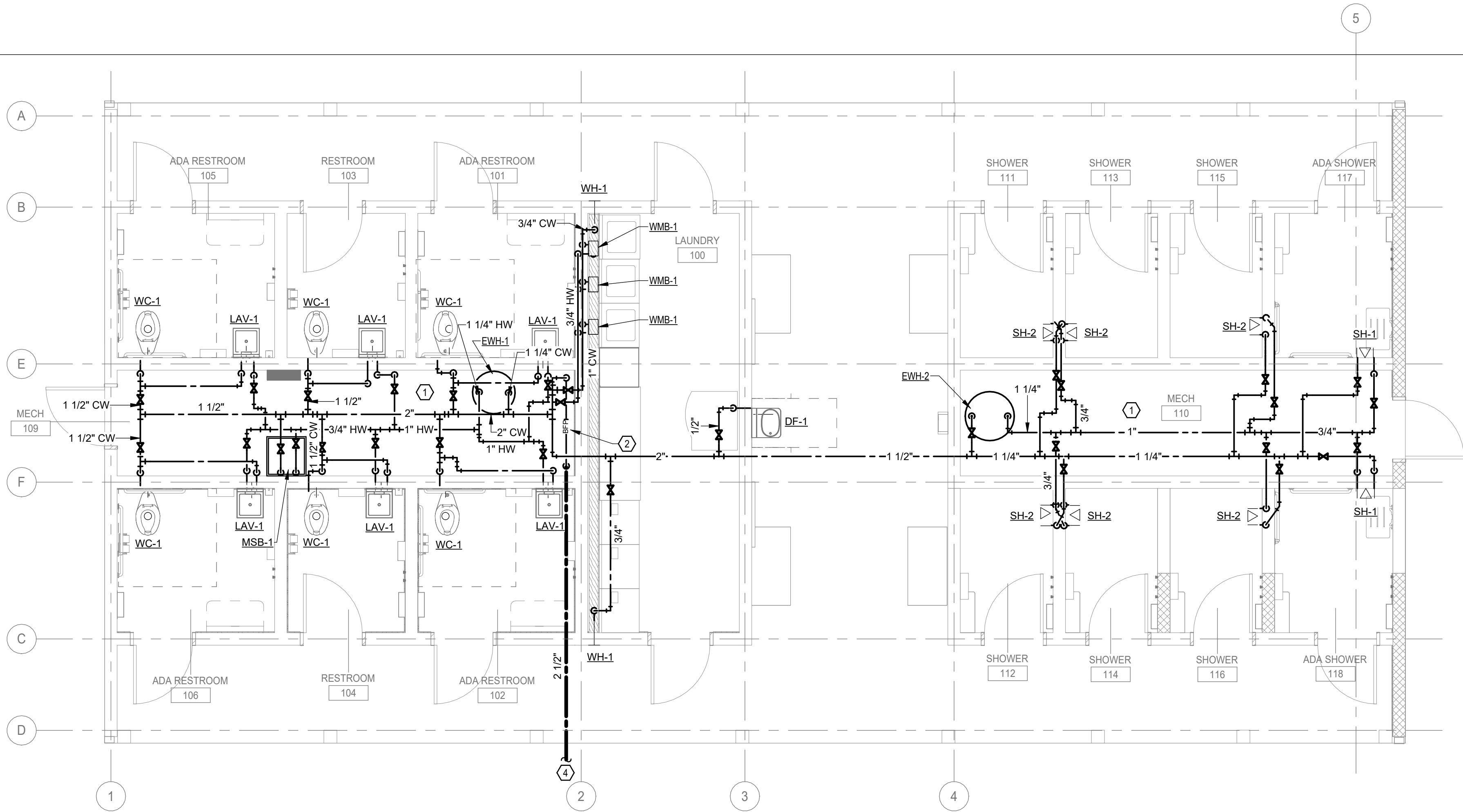
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

SHEET TITLE:
PLUMBING PLANS

SHEET NUMBER:

P-101

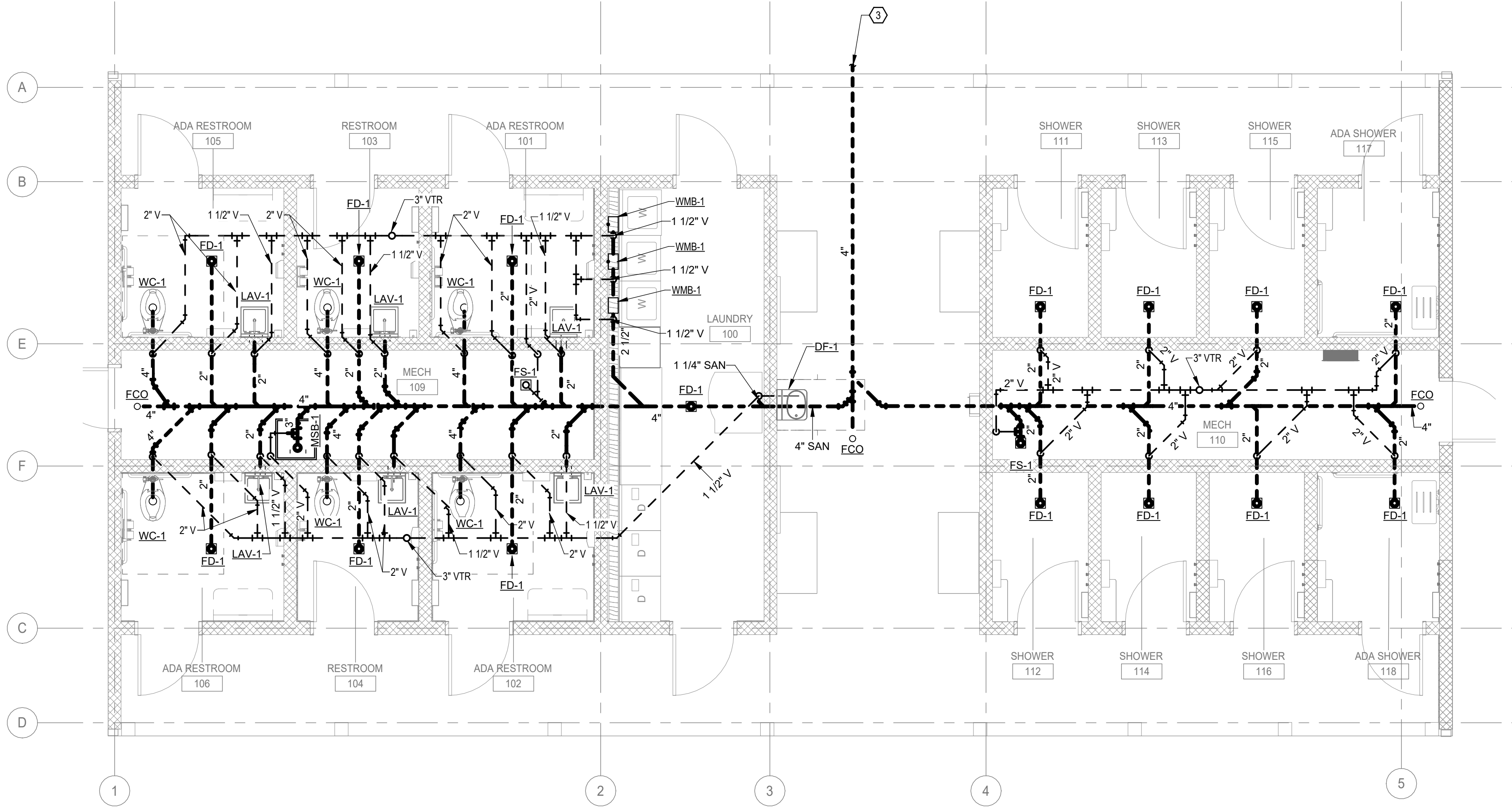


SHEET KEYNOTES

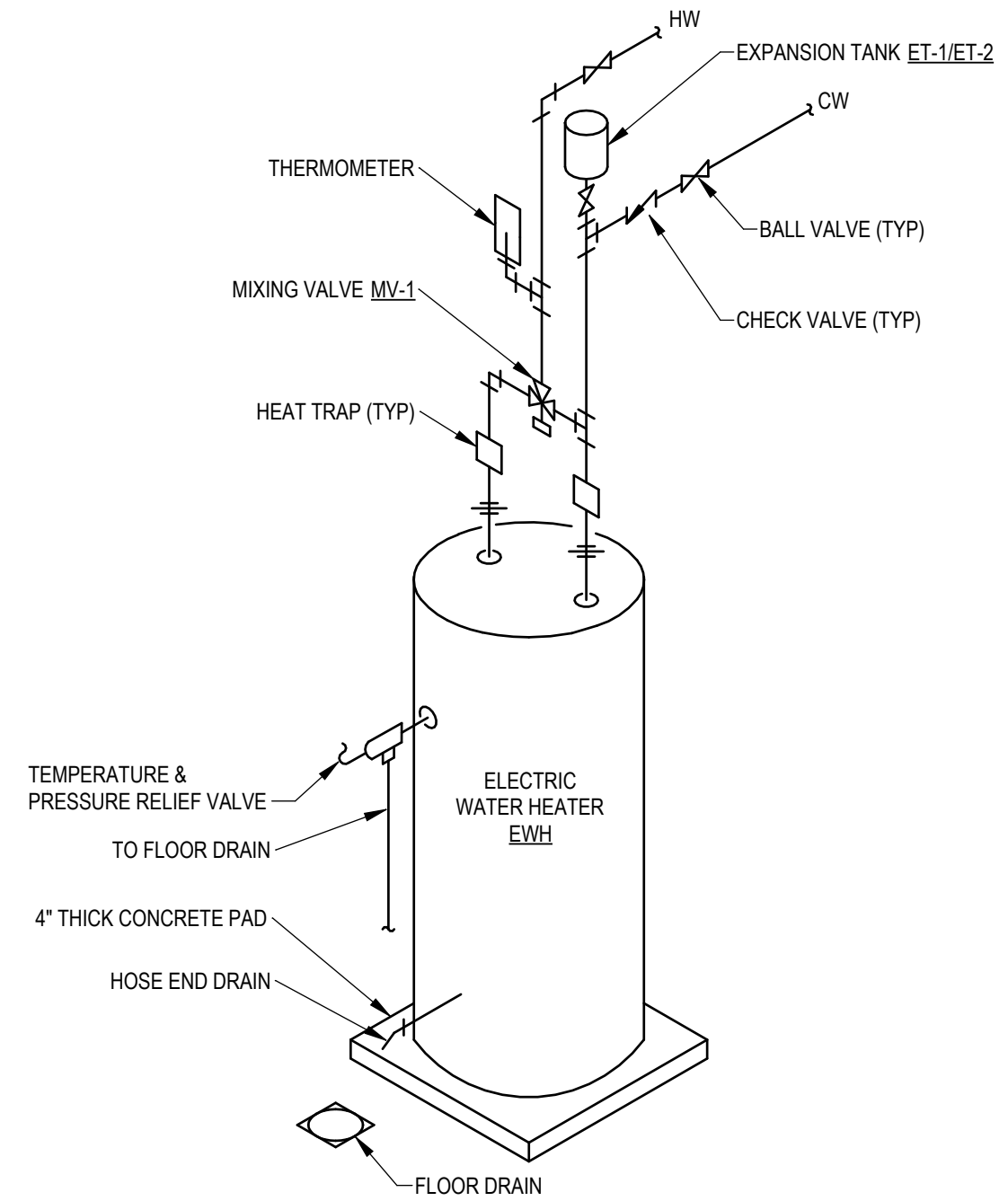
1. DOMESTIC WATER PIPING TO BE SLOPED TO ALLOW DRAIN DOWN FOR WINTERIZATION OF THE BUILDING. DRAINS TO BE ADDED AT LOW POINTS.
2. PROVIDE SHUT-OFF VALVE IN VERTICAL PIPE. SEE DETAIL 9/P-501.
3. SANITARY DRAIN PIPE BUILDING EXIT. REFER TO CIVIL SHEETS FOR DESIGN OF SANITARY PIPING BEYOND THE BUILDING. EXISTING ELEVATION 924.15
4. DOMESTIC WATER PIPE BUILDING ENTRANCE. REFER TO CIVIL SHEETS FOR DESIGN OF DOMESTIC WATER PIPING BEYOND BUILDING.



1 DOMESTIC WATER PLUMBING PLAN
SCALE: 1/4" = 1'-0"



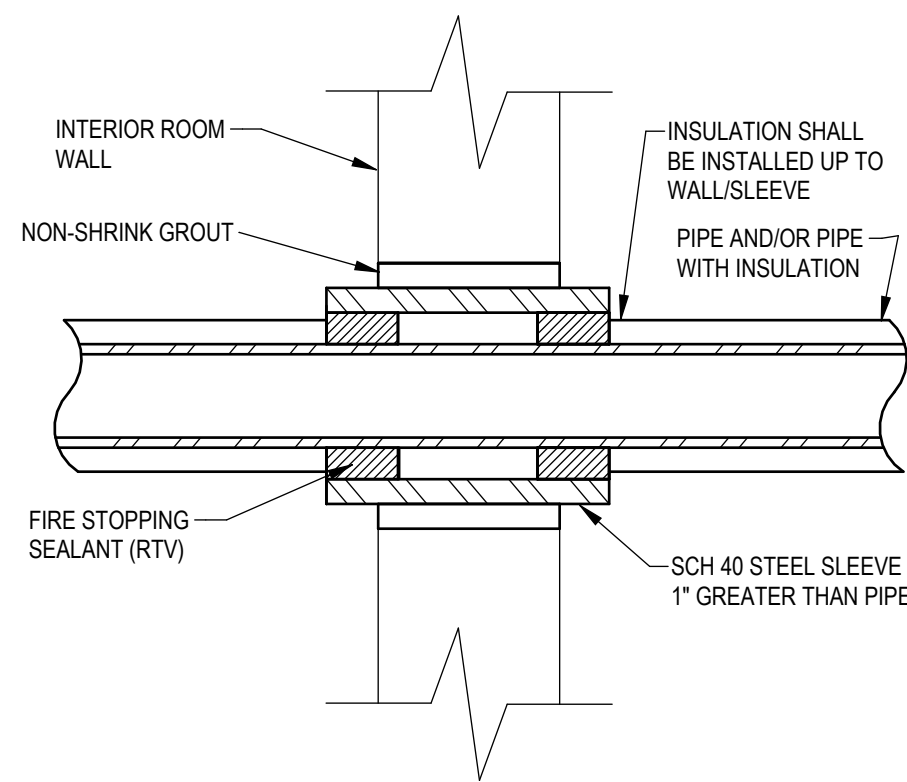
2 SANITARY AND VENT PLUMBING PLAN
SCALE: 1/4" = 1'-0"



NOTE:
1. SEE SCHEDULES FOR INFORMATION ON ELECTRIC WATER HEATERS EWH-1, EWH-2, EXPANSION TANK ET-1, AND MIXING VALVE MV-1

1 WATER HEATER PIPING DETAIL

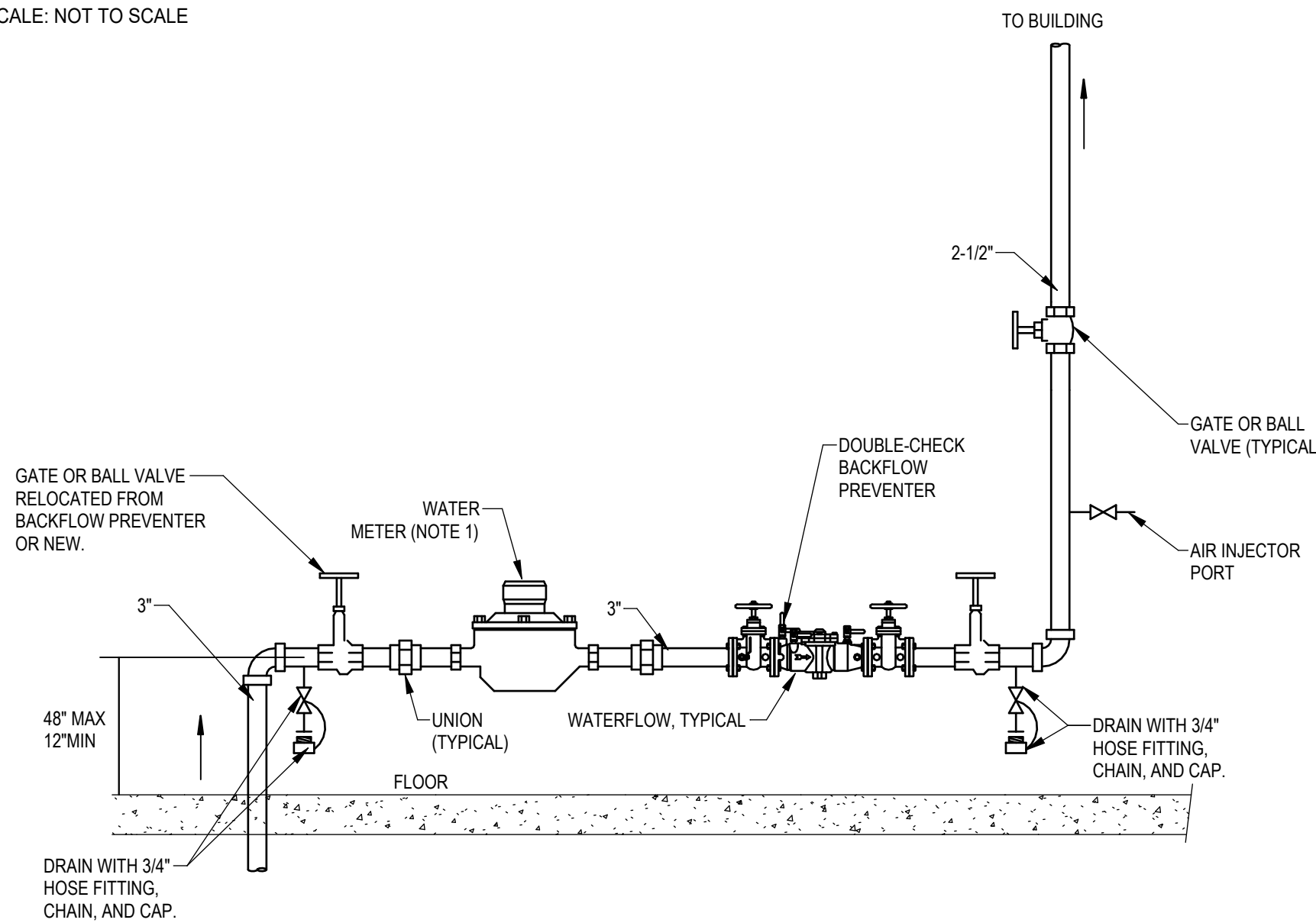
SCALE: NOT TO SCALE



NOTES:
1. SLEEVES ARE NOT REQUIRED FOR CORE-DRILLED HOLES OR STUD WALLS.

4 PIPE SLEEVE THRU RATED INTERIOR WALL

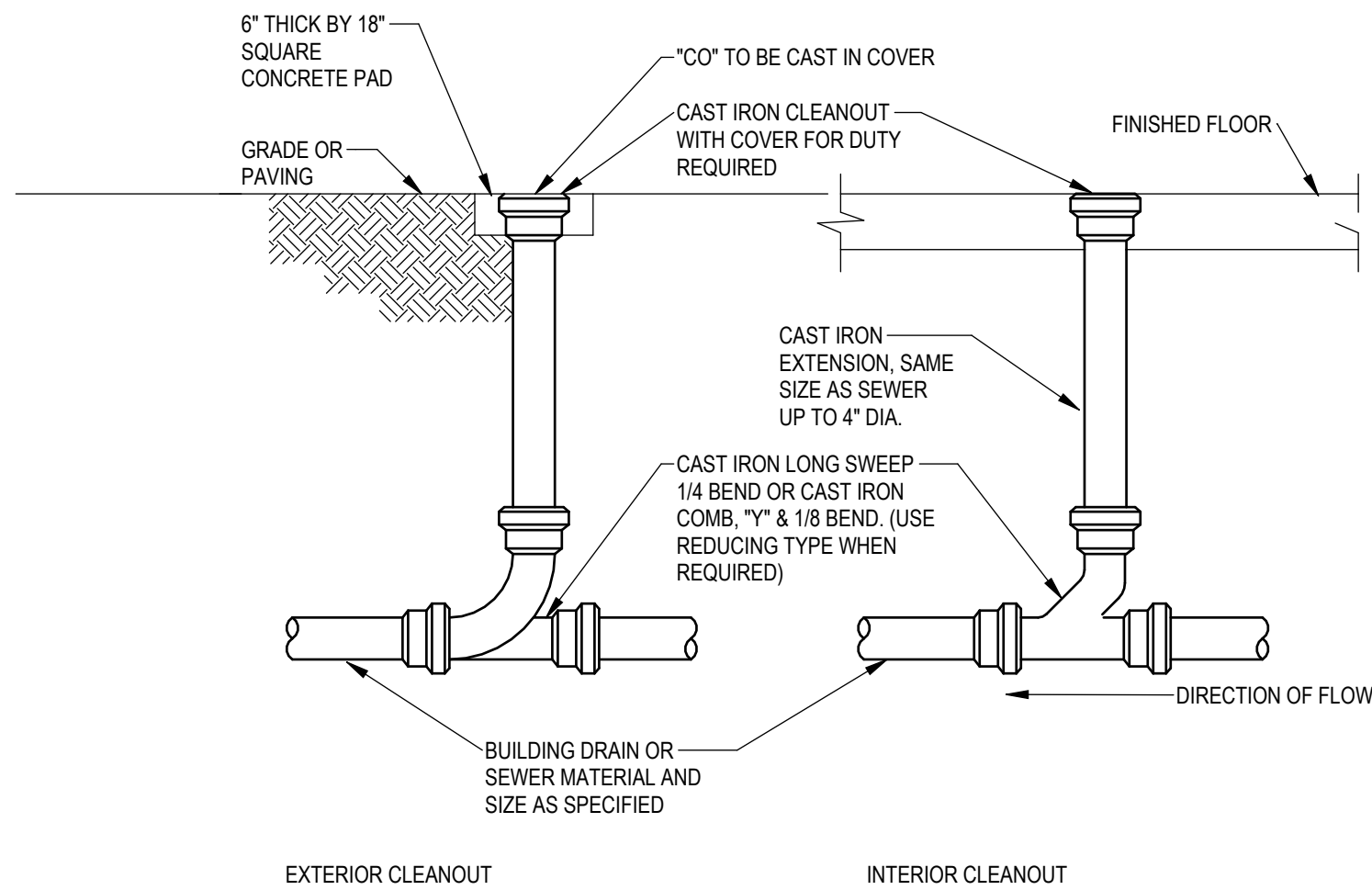
SCALE: NOT TO SCALE



NOTES:
1. METER SHALL BE PROVIDED WITH REMOTE EXTERIOR WALL MOUNTED READOUT. VERIFY METER TYPE AND UNIT OF MEASURE WITH UTILITY.

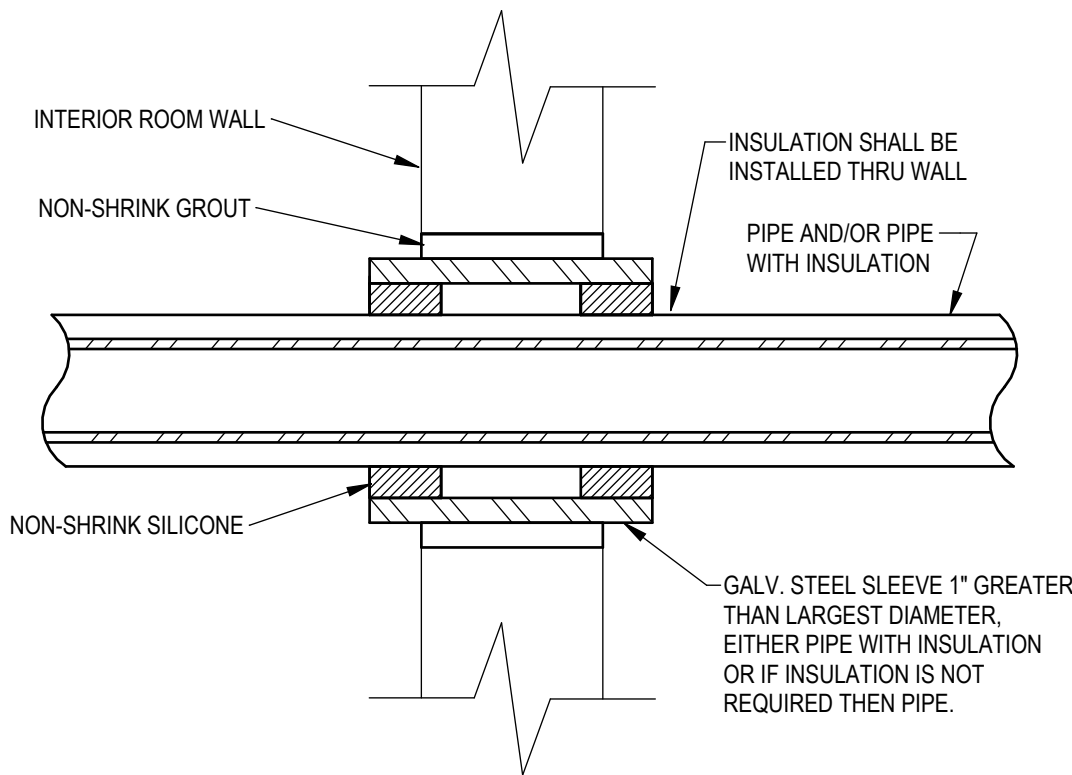
6 DOMESTIC WATER ENTRANCE

SCALE: NOT TO SCALE



2 TYPICAL CLEANOUTS

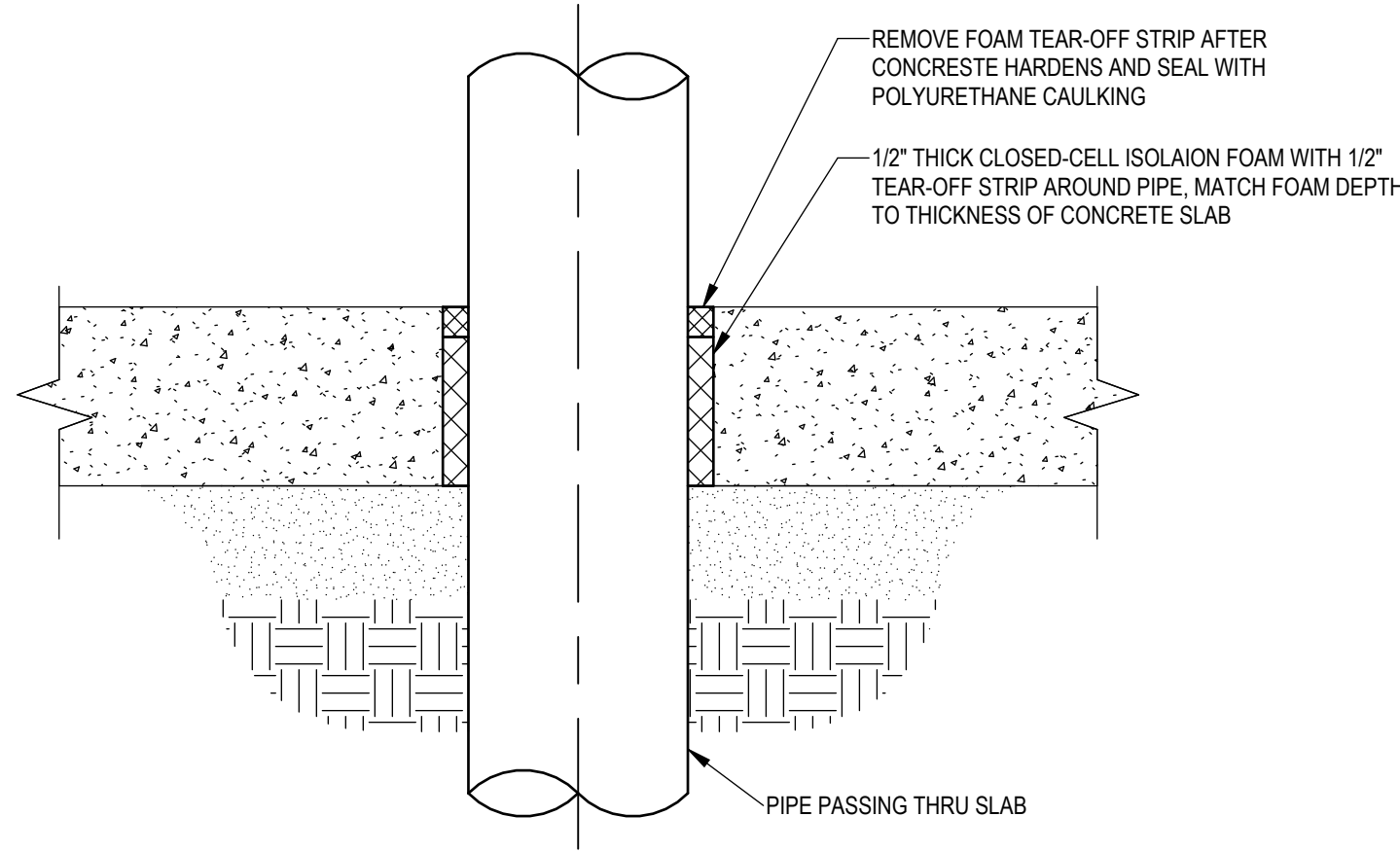
SCALE: NOT TO SCALE



NOTES:
1. SLEEVES ARE NOT REQUIRED FOR CORE-DRILLED HOLES OR STUD WALLS.

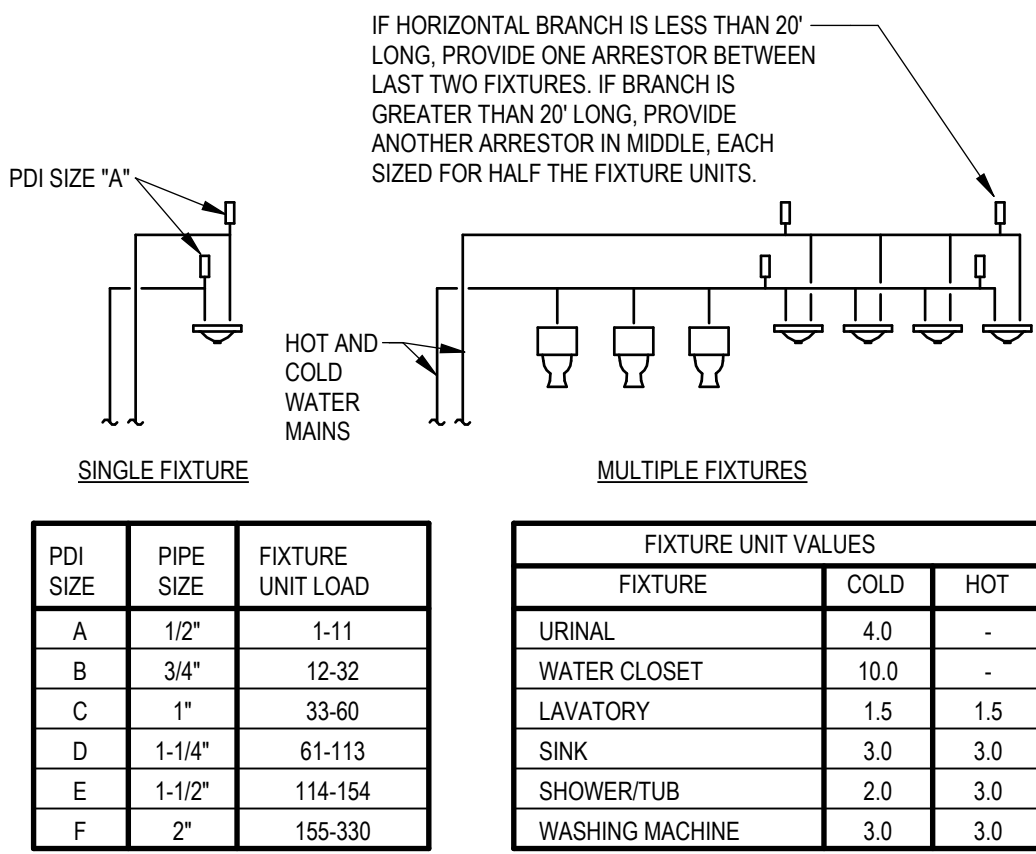
3 PIPE SLEEVE THRU NON-RATED INTERIOR WALL

SCALE: NOT TO SCALE



5 PIPE PENETRATION THRU SLAB ON GRADE

SCALE: NOT TO SCALE



NOTES:
1. PROVIDE WATER HAMMER ARRESTORS.
2. INSTALL IN HORIZONTAL OR VERTICAL POSITION.
3. SIZE THE UNITS AS SHOWN ON THE DRAWING AND/OR THE TABLES SHOWN ABOVE.
4. INSTALL PER PDI STANDARDS AND MANUFACTURERS RECOMMENDATIONS.

7 WATER HAMMER ARRESTOR DETAIL

SCALE: NOT TO SCALE

BUILDING WINTERIZATION CHECKLIST:

- TURN OFF ELECTRIC WATER HEATERS EWH-1 AND EWH-2 AT THE BREAKER.
- CLOSE DOMESTIC WATER ISOLATION VALVE AT METER AND OPEN DRAIN VALVE AFTER BACKFLOW PREVENTER.
- DRAIN WATER HEATER AFTER IT COOLS DOWN.
- FLUSH TOILETS AND OPEN SINK FAUCETS TO DRAIN WATER IN VERTICAL PIPE RISERS.
- CLOSE DRAIN VALVE AND UTILIZE AIR INJECTION PORT TO BLOW OUT ALL PIPING BRANCHES.
- POUR NON-TOXIC ANTI-FREEZE INTO THE DRINKING FOUNTAIN DRAIN TO PROTECT TRAP FROM FREEZING.
- VERIFY UNIT HEATERS ARE OPERATIONAL. ATTACH REMOVABLE INSULATED COVERS TO ALL DOOR GRILLES.
- TURN OFF EXHAUST FANS EF-1 AND EF-2 AT THE BREAKER.

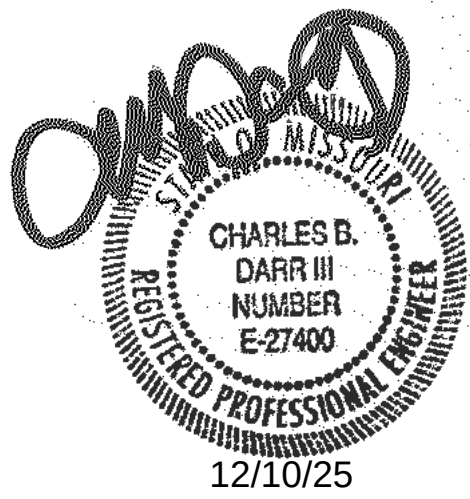
BUILDING DE-WINTERIZATION CHECKLIST:

- CLOSE DRAIN VALVE AFTER WATER METER AND OPEN ISOLATION VALVE SLOWLY AT WATER METER TO FILL SYSTEM.
- FLUSH TOILETS AND OPERATE SINK FAUCETS TO REMOVE AIR FROM THE SYSTEM PIPING.
- TURN ELECTRIC WATER HEATERS EWH-1 AND EWH-2 ON AT THE BREAKER. DO NOT TURN THE WATER HEATERS ON BEFORE THE SYSTEM IS FILLED WITH WATER.
- REMOVE COVERTS FROM DOOR GRILLES.
- TURN EF-1 AND EF-2 ON AT THE BREAKER.

NOTE:
1. PROVIDE LAMINATED WINTERIZATION CHECKLIST SIGN AND PERMANENTLY ATTACH TO WALL ABOVE WATER METER IN HIGHLY VISIBLE LOCATION.
2. BUILDING HAS TO BE WINTERIZED BEFORE FREEZING TEMPERATURES START.

8 BUILDING WINTERIZATION CHECKLIST SIGN

SCALE: NOT TO SCALE



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01

SITE # 5307

ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:

P-501

550 East St. Louis Street
Springfield, MO 65806

olisson.com
TEL 417.890.8802
FAX 417.890.8805

olson

Olsson - Engineering
Missouri COA #001592

**DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS**

MONTAUK STATE PARK
SALEM, MISSOURI

ASSET # 7815307019

ISSUE DATE: 10/24/2025

SHEET TITLE:

SHEET NUMBER:

29 OF 71 SHEETS

10/24/2025

MARK	TYPE	MANUFACTURER	MODEL	DESCRIPTION	ACCESSORIES	CONNECTIONS (INCHES)			
						WASTE	VENT	CW	HW
DF-1	DRINKING FOUNTAIN	ELKAY	LVRCDMWSK	VANDAL-RESISTANT SINGLE STATION WALL MOUNT WATER FOUNTAIN WITH BOTTLE FILLER, NON-REFRIGERANT STAINLESS.	SELF CLOSING EASY TOUCH CONTROLS ON FRONT, LEFT AND RIGHT OF EACH UNIT.	1-1/2"	1-1/2"	1/2"	--
LAV-1	LAVATORY (WALL MOUNTED) ADA	SLOAN	SS-3017	18-1/4" x 12" x 120 1/4" WITH FRONT OVERFLOW. WHITE ENAMELLED CAST IRON.	DELTA B501FL SINGLE HANDLE, DECK MOUNTED FAUCET. CHROME FINISH, 0.5 GPM. TRUEBRO LAV GAURD MODLED P-TRAP AND SUPPLY COVERS. 1-1/2" CHROME-PLATED CAST-BRASS OFFSET TRAP WITH GRID STRAINER, CLEAN-OUT AND WALL ESCUTCHEON. 1/2" CHROME-PLATED SUPPLIES WITH STOPS AND WALL ESCUTCHEONS.	2" UP TO 1-1/2" TRAP ARM	1-1/2"	1/2"	1/2"
MSB-1	MOP SINK BASIN	FIAT	MSBIDTG2424	24" x 24" x 10" MOLDED STONE BASIN WITH INTEGRAL DRAIN AND STAINLESS STEEL STRAINER.	FIAT MSG2424 STAINLESS STEEL WALL GUARD, CHICAGO FAUCET TOP SUPPLY DOUBLE HANDLE SERVICE SINK FAUCET: MODEL 835-RCF, 823AA HOSE & HOSE BRACKET, 899CC MOP HANGER BRACKET AND QIC3N QUICK DRAIN 3" CONNECTOR.	3"	2"	1/2"	1/2"
SH-1	SHOWER HARDWARE (ADA)	HIGH SIERRA	FCS-100-VRF1214-1.25	VANDAL RESISTANT STAINLESS STEEL SINGLE NON-CLOGGING NOZZLE. HAND-HELD SHOWER AND ADA SLIDE BAR, LEVER HANDLE TEMPERATURE CONTROL.	POLISHED CHROME PALTED FIXTURE, PRESSURE BALANCE CARTRIDGE FLOW RATE OF 1.25 GPM @ 60 PSI.	2"	1-1/2"	1/2"	1/2"
SH-2	SHOWER HARDWARE	HIGH SIERRA	FCS-100-VRF1214-1.25	PROVIDE KOHLER TRITON SHOWER TRIM K-T7744-2. SEPARATE HANDLES FOR HOT AND COLD WATER, 1.25 GPM FLOW RATE.	PROVIDE KOHLER TWO-HANDLE VALVE K-302-K 1.25 GPM FLOW CONTROL DEVICE.	2"	1-1/2"	1/2"	1/2"
WC-1	WATER CLOSET, ADA	SLOAN	ST-2029	VITREOUS CHINA, ELONGATED FLOOR-MOUNTED ADA WATER CLOSET, 1.28 GPM.	EXPOSED BATTERY POWERED WATER CLOSET FLUSHOMETER, 1.28 GPM, POLISHED CHROME, TOP SPUD. BEMIS 1995CT TOILET SEAT.	4"	2"	1-1/4"	--
FD-1	FLOOR DRAIN	ZURN	ZN415B	CAST IRON BODY, BOTTOM OUTLET, INVERTABLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR. SQUARE LEVELING STRAINER. POLISHED NICKEL BRONZE FINISH.	DIMENSIONS OF TOP STRAINER: 2" & 3" OUTLET WITH A 5" x 5" STRAINER. GASKETED TRAP SEALER IN NECK OF FLOOR DRAIN BY SURE-SEAL OR EQUAL.	2"	2"	--	--
FS-1	SQUARE FLOOR SINK	ZURN	Z1910-2	8 x 8 SANI-FLOOR RECEPTOR, 6" SUMP DEPTH.	8X8X6 DEEP CAST IRON BODY AND SQUARE, MEDIUM GRATE WITH SLOTTED OPENINGS. WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP WITH ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER. 1/2 GRATE AND SECURITY SCREWS.	RE-PLANS	--	--	--
FPWH-2	FREEZE PROOF WALL HYDRANT	ZURN	Z1315-WC	EXPOSED, NON-FREEZE WALL HYDRANT WITH BRONZE CASING.	OPERATING KEY, 3/4" MALE HOSE CONNECTION, WALL CLAMP, VERIFY WALL THICKNESS. WALL CLAMP.	--	--	3/4"	--
WMB-1	WASHING MACHINE BOX	OATEY	38569	WASHING MACHINE OUTLET BOX WITH WATER HAMMER ARRESTERS	QUADTRO 2 IN. COOPER SWEAT CONNECTION. 1/4 TURN BRASS BALL VALVES, PVC TAILPIECE.	2"	1-1/2"	1/2"	1/2"
FCO	FLOOR CLEAN OUT	ZURN	ZN1400	CAST IRON BODY, HEAVY DUTY ADJUSTABLE FLOOR CLEANOUT. POLISHED NICKEL BRONZE FINISH.	NO-HUB OUTLET.	RE-PLANS	--	--	--

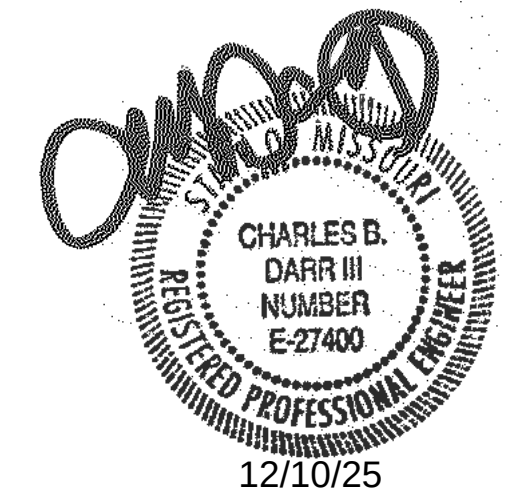
REMARKS:

1. VERIFY ALL CONNECTIONS & MOUNTING HEIGHTS WITH CODES, MANUFACTURERS, AND PLANS.
2. SIZES LISTED INDICATE MIN. SIZE ONLY, SEE FLOOR PLANS FOR LARGER SIZES.

MARK	LOCATION	TYPE	STORAGE (GAL.)	RECOVERY (GPH)	TEMP RISE (°F)	TEMP SETTING (°F)	ELECTRICAL DATA		INPUT (KW)	NUMBER OF ELEMENTS	MANUFACTURER & MODEL	REMARKS
							V	PH				
EWH-1	MECH 109	ELECTRIC	40	20	85	140	240	1	4.5	2	AO SMITH DEN-30	1-3,5,6
EWH-2	MECH 110	ELECTRIC	120	176	85	140	240	1	30	6	AO SMITH DVE-120-30	1-4,6

REMARKS:

1. FURNISHED WITH ANODE ROD, HIGH LIMIT RESET, DRAIN VALVE, AND T&P RELIEF VALVE.
2. INSULATED TANK WITH 160 MAX PSI WORKING PRESSURE.
3. INSTALL THERMOMETER ON OUTLET OF HEATER.
4. PROVIDE 6.4 GALLON EXPANSION TANK (ET-1), AMTROL MODEL ST-12.
5. PROVIDE 2.0 GALLON EXPANSION TANK (ET-2), AMTROL MODEL ST-5.
6. PROVIDE MIXING VALVE, MV-1 HYDROGUARD MODEL LFI M491-6



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

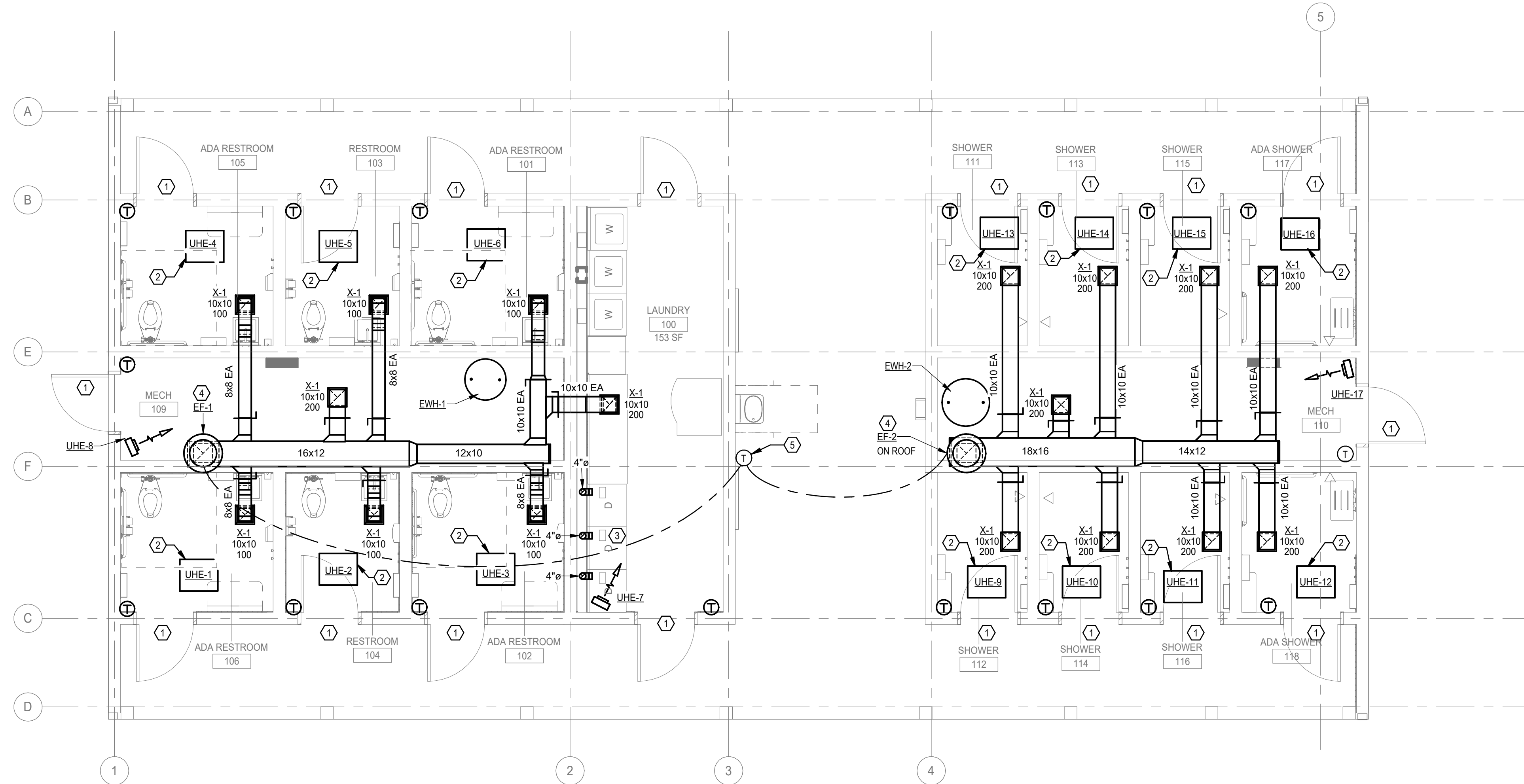
SHEET TITLE:
HVAC PLAN

SHEET NUMBER:

M-101

xx SHEET KEYNOTES

1. INSTALL TRANSFER GRILLE "TG-1" IN DOOR. REFER TO SCHEDULE. COORDINATE WITH ARCHITECTURAL DESIGN.
2. UNIT HEATER SUSPENDED ON FACTORY TILT BRACKET ASSEMBLY FROM THE CEILING
3. PROVIDE GOOSENECK NON-RESTRICTIVE DRYER VENT THROUGH ROOF. DRYER JACK MODEL 486U.
4. REFER TO 1/M-601 FOR EXHAUST FAN DETAIL.
5. PROVIDE EXTERIOR MOUNTED THERMOSTAT. DISABLE ALL EXHAUST FANS OPERATION BELOW 32F.



1 MECHANICAL HVAC PLAN

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

olson.

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

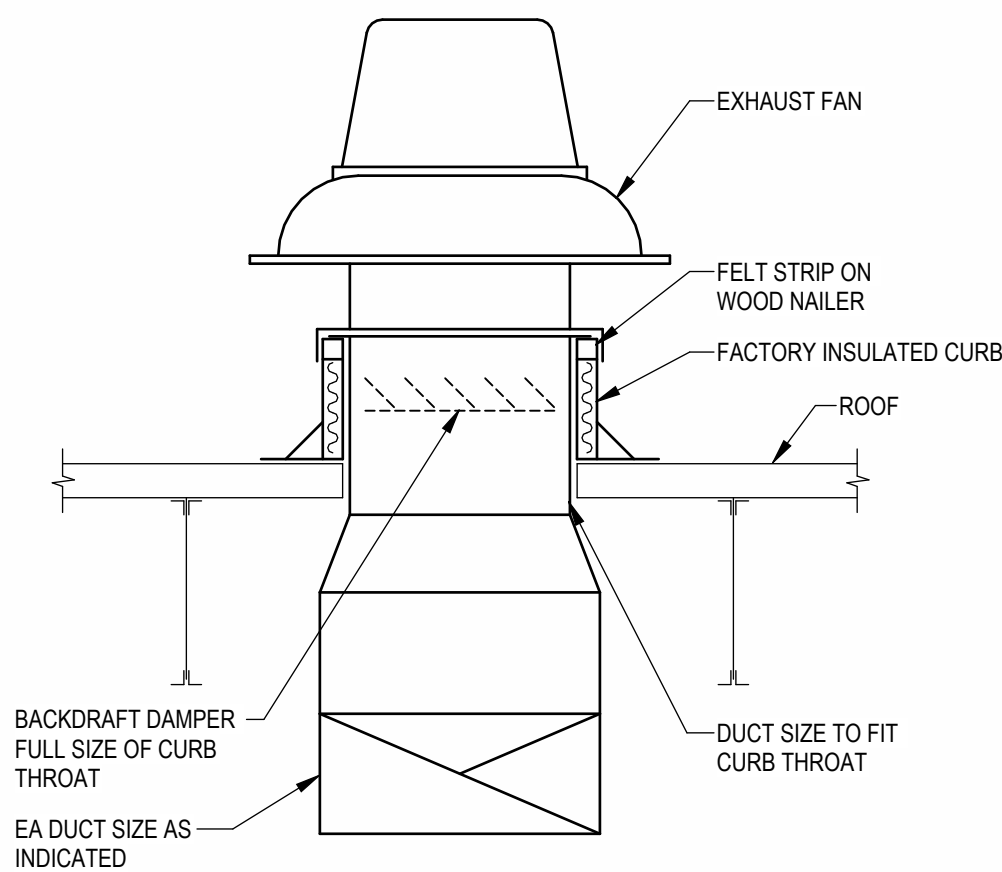
CAMPGROUND SHOWER HOUSE REPLACEMENTS LOOP 4

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307019

CAD DWG FILE: _____
 DRAWN BY: OG _____
 CHECKED BY: MP _____
 DESIGNED BY: OG _____

MECHANICAL SCHEDULES AND DETAILS

M-601



UNIT HEATERS (ELECTRIC)								
MARK	LOCATION	ELECTRIC HEATING	ELECTRICAL DATA			MOUNTING HEIGHT	MANUFACTURER & MODEL	REMARKS
		KW	VOLT	PH	HZ			
UHE-1	ADA RR 106	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-2	RR 104	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-2	ADA RR 102	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-4	ADA RR 105	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-5	RR 103	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-6	ADA RR 101	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-7	MECH 109	2.2	240	1	60	9'	DAYTON 804T10	1, 2, 4, 5, 6, 7
UHE-8	LAUNDRY 100	2.2	240	1	60	9'	DAYTON 804T10	1, 2, 4, 5, 6, 7
UHE-9	SHOWER 112	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-10	SHOWER 114	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-11	SHOWER 116	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-12	ADA SHOWER 118	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-13	SHOWER 11	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-14	SHOWER 113	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-15	SHOWER 115	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-16	ADA SHOWER 117	1.50	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-17	MECH 110	2.2	240	1	60	9'	DAYTON 804T10	1, 2, 4, 5, 6, 7
REMARKS: 1. POWER DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR. 2. WALL BRACKET SUPPORT KIT. 3. TILT BRACKET SUSPENSION KIT. 4. PROVIDE WITH EXTERNAL THERMOSTAT. WALL MOUNT WITH LOCKABLE USER INTERFACE. 5. WIRE GUARD FOR HEATERS. 6. MAINTAIN CLEARANCES PER MANUFACTURER'S INSTALLATION GUIDELINES. 7. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.								

EXHAUST FANS													
MARK	SERVES	CFM	FRPM	ESP	HP	MAX SONES	ELECTRICAL DATA			TYPE	OPERATED BY	MANUFACTURER & MODEL	REMARKS
							VOLT	PH	HZ				
EF-1	RESTROOMS	1000	1124	0.25	0.5	12.1	120	1	60	DIRECT	CONTINUOUSLY	GREENHECK G-120-VG	ALL
EF-2	SHOWERS	1800	1124	0.25	0.5	12.1	120	1	60	DIRECT	CONTINUOUSLY	GREENHECK G-140-VG	ALL
REMARKS: 1. PROVIDE BACKDRAFT DAMPER, VIBRATION ISOLATION, SPEED CONTROLLER AND DISCONNECT SWITCH. 2. FAN SHALL OPERATE CONTINUOUSLY WHEN AMBIENT TEMPERATURE IS ABOVE 32 DEG. F. PROVIDE BI-METALLIC THERMOSTAT SWITCH SET TO 32 DEG. F AND NOT ADJUSTABLE.													

AIR DISTRIBUTION DEVICES									
MARK	SERVES	MOUNT	COLOR	NECK SIZE (INCH)	PATTERN	MAX NC	MAX PD IN WC	MANUFACTURER & MODEL	REMARKS
X-1	EXHAUST	SURFACE	WHITE	SEE PLANS	FIXED BLADES	25	0.1	TITUS 350FL	1
TG-1	TRANSFER/ MAKE-UP	DOOR	NOTE 4	12 X 12	FIXED BLADES	25	0.06	GREENHECK XG-DG 12X12	2, 3
REMARKS:									
1. CONCEALED FASTENING.									
2. MATCH FINISH OF DOOR.									
3. NOISE CRITERIA AND PRESSURE DROP ARE FOR 300 CFM.									

GENERAL ELECTRICAL NOTES

- A. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES ARE TO BE FLUSH MOUNTED AND ALL WIRE AND CONDUITS ARE TO BE ROUTED CONCEALED. COORDINATE INSTALLATION WITH EXISTING CONDITIONS, INCLUDE PATCHING AND REFINISHING OF EXISTING SURFACES TO ACCOMMODATE THIS REQUIREMENT.
- B. PRIOR TO ROUGH-IN, COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE RESPECTIVE CONTRACTOR FURNISHING THE EQUIPMENT. THIS INCLUDES, BUT IS NOT LIMITED TO: MECHANICAL EQUIPMENT, ETC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR THE EQUIPMENT AND SHALL MAKE THE FINAL CONNECTION TO THE EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY EQUIPMENT THAT REQUIRES AN INTEGRAL CORD AND PLUG IF NOT PROVIDED WITH THE EQUIPMENT.
- C. WHERE A MECHANICAL RETURN AIR PLENUM SYSTEM IS PRESENT, ALL EQUIPMENT AND MATERIALS PROVIDED WITHIN THE PLENUM CEILING RETURN MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50 AND BE APPROVED FOR USE IN PLENUM RETURN CEILINGS. UNLESS OTHERWISE NOTED, METAL HOUSINGS ON LUMINAIRES ARE ACCEPTABLE WITHIN THE PLENUM AND SHALL NOT REQUIRE ENHANCED PLENUM RATINGS.
- D. ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE MINIMUM NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHER RESISTANT. EXTERIOR RECEPTACLES OR RECEPTACLES IN DAMP OR WET LOCATIONS SHALL BE PROVIDED WITH WEATHERPROOF WHILE-IN-USE COVERS.
- E. #12 AWG SHALL BE USED AS A STANDARD 120V CIRCUIT. WHERE A CIRCUIT EXCEEDS 75', #10 AWG SHALL BE USED. WHERE A CIRCUIT EXCEEDS 125', #8 AWG SHALL BE USED FOR FIRST 75' MINIMUM.
- F. UNLESS OTHERWISE NOTED, MINIMUM CONDUIT SIZE FOR BRANCH CIRCUITS SHALL BE 3/4" EMT. REFER TO FLOOR PLANS, DETAILS, AND SPECIFICATIONS FOR ANY LOCATIONS WHERE LARGER CONDUIT SIZES ARE REQUIRED.
- G. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT (LIGHTING, POWER, ETC.) SERVED BY A SINGLE POLE CIRCUIT BREAKER. SHARED NEUTRALS ARE NOT ALLOWED. PROVIDE NEUTRAL CONDUCTOR FOR MECHANICAL EQUIPMENT WHERE REQUIRED, REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR REQUIREMENTS.
- H. PROVIDE A GREEN INSULATED GROUND WIRE FOR EACH BRANCH CIRCUIT (LIGHTING, POWER, ETC.).
- I. WHERE FLEXIBLE METALLIC CONDUIT (FMC) IS ALLOWED BY THESE CONTRACT DOCUMENTS AND LOCAL BUILDING CODES, LENGTH SHALL NOT EXCEED 6FT.
- J. WHERE CONDUIT ROUTES EXPOSED IN OPEN CEILING AREA, CONDUIT SHALL BE PAINTED TO MATCH CEILING SURFACE. COORDINATE EXACT FINISH WITH ARCHITECT. LIMIT JUNCTION BOXES WITHIN OPEN CEILING AREA.
- K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY EQUIPMENT OR FIXTURES THAT BECOME DAMAGED PRIOR TO RE-INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER.
- L. THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LOCALLY ADOPTED EDITION OF NFPA 70 (NEC) AND ALL APPLICABLE LOCALLY ADOPTED BUILDING AND ENERGY CODES.
- M. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SLEEVES THROUGH WALLS AND FLOORS TO ALLOW FOR THE ROUTING OF TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS CABLING. REVIEW ROUTING WITH LOW VOLTAGE CONTRACTOR FOR SLEEVE LOCATIONS AND REQUIREMENTS.
- N. MECHANICAL CONTROLS SHALL BE INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL RACEWAYS AND BOXES ASSOCIATED WITH MECHANICAL CONTROLS. FOR EACH THERMOSTAT PROVIDE JUNCTION BOX WITH ONE (1) 3/4" CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE ADDITIONAL 3/4" CONDUIT FROM EACH TEMPERATURE CONTROL CABINET TO NEAREST CORRIDOR CABLE TRAY WHERE APPLICABLE, OR TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING. REFER TO MECHANICAL FLOOR PLANS FOR ALL WALL CONTROL LOCATIONS AND QUANTITIES.

GENERAL LIGHTING NOTES

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS AND DIMENSIONS OF ALL CEILING MOUNTED DEVICES. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- B. SUPPORT ALL RECESSED AND PENDANT MOUNTED FIXTURES FROM STRUCTURE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. SUSPENDED CEILING MOUNTING SYSTEMS SHALL NOT BE USED TO SUPPORT FIXTURES OR RACEWAYS.
- C. PROVIDE ENCLOSURES AROUND RECESSED LIGHTING FIXTURES AS REQUIRED SO THAT ALL CODE REQUIRED CLEARANCES BETWEEN COMBUSTIBLE MATERIALS, THERMAL INSULATION, ETC. AND LIGHTING FIXTURES ARE MAINTAINED. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- D. PROVIDE POWER PACK AND/OR RELAYS AS NECESSARY FOR ALL OCCUPANCY SENSORS, LOW VOLTAGE WALL CONTROLLERS, OR OTHER SENORS/DEVICES WHERE REQUIRED BY MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ALL LOW VOLTAGE CABLING AND ALL DEVICES/CONNECTIONS NECESSARY FOR A COMPLETE, WORKING INSTALLATION, AND PER MANUFACTURER'S REQUIREMENTS.
- E. CONNECT BATTERY SENSING LEADS FOR EMERGENCY LIGHTING UNITS AND INTEGRAL EMERGENCY BATTERY BALLASTS/DRIVERS AHEAD OF LOCAL SWITCHING.
- F. COORDINATE LOCATIONS OF LIGHT SWITCH HEIGHTS WITH CASEWORK, FURNITURE AND EQUIPMENT PLANS PRIOR TO ROUGH-IN TO AVOID ANY CONFLICTS.
- G. LIGHT FIXTURES SHOWN WITH EMERGENCY HATCHING SHALL BE CONTROLLED WITH NORMAL SOURCE LIGHT FIXTURES AND ASSOCIATED CONTROLS WITHIN COMMON SPACE. PROVIDE BATTERY BACKUP FOR EMERGENCY LIGHTING OVERRIDE. PROVIDE PER MANUFACTURER'S WIRING DIAGRAMS.
- H. COORDINATE FINAL FIXTURE LOCATIONS WITH MECHANICAL DUCTWORK AND STRUCTURAL COMPONENTS. DO NOT SUPPORT FIXTURES FROM DUCTWORK, SUPPORT FIXTURES ONLY FROM STRUCTURE.
- I. PROVIDE #12 AWG MINIMUM CONDUCTORS FOR ALL EXTERIOR LIGHTING CIRCUITS.
- J. PROVIDE BEAD OF SILICONE SEALANT AROUND RECESSED BACK BOX PERIMETER AT ALL BUILDING MOUNTED EXTERIOR LIGHT FIXTURE LOCATIONS.
- K. IN ALL ELECTRICAL, COMMUNICATIONS, AND MECHANICAL UTILITY ROOMS COORDINATE LOCATION OF LIGHT FIXTURES WITH EQUIPMENT PRIOR TO INSTALLATION.
- L. CEILING OCCUPANCY SENSORS: WHERE CEILING MOUNT SENSORS ARE MOUNTED IN LOCATIONS WITH DARK CEILING OR EXPOSED STRUCTURE FINISH, PROVIDE BLACK SENSOR COVER.

GENERAL POWER NOTES

- A. FULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL DEVICES WITH THE WORK OF OTHER TRADES. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR DEVICE MOUNTING HEIGHT AND LOCATION WHERE DEVICE IS TO BE INSTALLED IN CASEWORK. BACK-TO-BACK MOUNTING OF DEVICES IS NOT ACCEPTABLE IN A STANDARD 3-5/8" STUD WALL.
- B. UNLESS OTHERWISE NOTED, STANDARD ELECTRICAL RECEPTACLE DEVICES SHALL BE MOUNTED AT 18" A.F.F. REFER TO STANDARD MOUNTING HEIGHT DETAILS FOR OTHER DEVICE REQUIREMENTS.
- C. ALL 120V THROUGH 250V RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY 3-PHSE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE FOLLOWING LOCATIONS SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL:
- a. BATHROOMS AND RESTROOMS
 - b. ROOFTOPS
 - c. OUTDOORS
 - d. RECEPTACLES WITHIN 6FT OF A SINK
 - e. INDOOR DAMP AND WET LOCATIONS
 - f. LOCKER ROOMS WITH ASSOCIATED SHOWER FACILITIES
 - g. LAUNDRY AREAS
 - h. BATHTUBS AND SHOWER STALLS
 - i. OTHER LOCATIONS AS REQUIRED BY NEC.210.8
- D. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT, EXTEND PAD ON ALL SIDES MINIMUM 4" FOOTPRINT OF EQUIPMENT. WHERE MULTIPLE FLOOR MOUNTED EQUIPMENT ARE LOCATED ADJACENT TO ONE-ANOTHER, PAD SHALL BE CONTINUOUS ALONG ENTIRE EQUIPMENT LINEUP.

ELECTRICAL SHEET LIST

SHEET NO.	SHEET NAME
E-001	GENERAL ELECTRICAL INFORMATION
E-002	ELECTRICAL SITE PLAN - MONTAUK LOOP 4
E-101	LIGHTING PLAN
E-201	POWER PLAN
E-701	ELECTRICAL SCHEDULES

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



150 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01

SITE # 5307

ASSET # 7815307019

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: ERR
CHECKED BY: KC
DESIGNED BY: ERR

SHEET TITLE:

GENERAL
ELECTRICAL
INFORMATION

SHEET NUMBER:

E-001

ELECTRICAL SYMBOL LEGEND

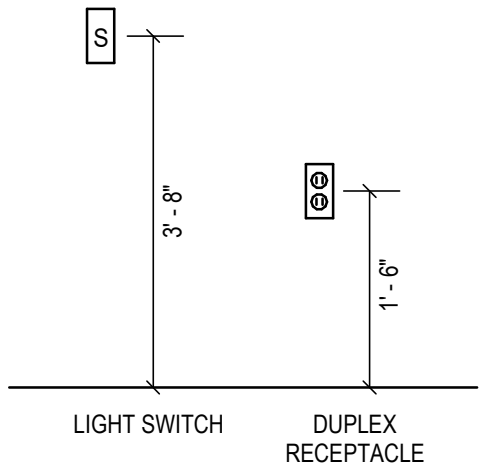
POWER DEVICES AND LIGHTING FIXTURES

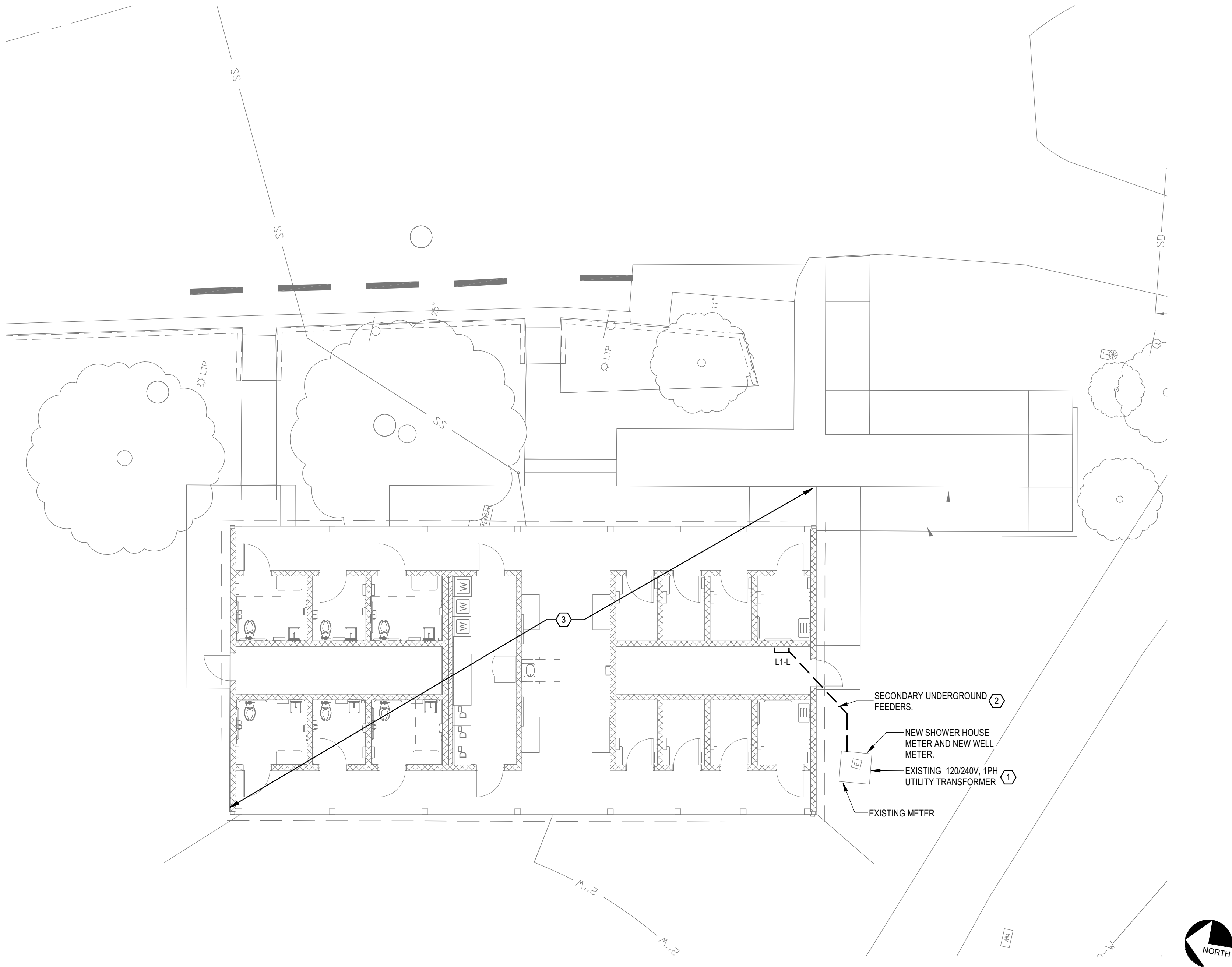
	DUPLEX RECEPTACLE; MOUNT AT 18" TO CENTER OF DEVICE AFF UNLESS OTHERWISE NOTED
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE WITH WHILE-IN-USE COVER
	SPECIAL-PURPOSE OUTLET, LETTER DESIGNATES TYPE
	WALL MOUNTED JUNCTION BOX
	SURFACE MOUNTED ELECTRICAL PANEL
	ELECTRICAL POWER TRANSFORMER
	NON-FUSED DISCONNECT SWITCH
	WALL-MOUNTED LIGHT FIXTURE; LABEL INDICATES FIXTURE TYPE
	STRIP LIGHT FIXTURE; LABEL INDICATES FIXTURE TYPE
	TYPICAL FIXTURE - ON EMERGENCY CIRCUIT
	BRANCH CIRCUIT. 2#12 AND 1#12 G IN 3/4" CONDUIT UNO
	FEEDER BELOW GRADE
	Ceiling OR WALL-MOUNTED OCCUPANCY SENSOR
	PHOTOCELL, AS INDICATED ON PLANS
	SINGLE-POLE SWITCH

ABBREVIATIONS/MODIFIERS

	SHEET NOTE TAG, LABEL INDICATES NOTE NUMBER
	FEEDER TAG
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
EF	EXHAUST FAN
EWB	ELECTRIC WATER HEATER
GFI	GROUND FAULT INTERRUPTER
NF	NON-FUSED
UHE	UNIT HEATER ELECTRIC
WP	WEATHERPROOF
WR	WEATHER RESISITANT
XFMR	TRANSFORMER

NOTES:
TYPICAL MOUNTING HEIGHTS UNLESS OTHERWISE NOTED.
ADJUST MOUNTING HEIGHT TO BLOCK COURSING.





1 ELECTRICAL SITE PLAN - MONTAUK LOOP 4
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- A. CONTRACTOR SHALL COORDINATE PLACEMENT AND ROUTING OF CONDUITS WITH UTILITY COMPANY PRIOR TO INSTALLATION. COORDINATE EXACT CONDUIT SIZES AND QUANTITIES WITH UTILITY COMPANY PRIOR TO INSTALLATION.
- B. COORDINATE WITH ROUTING OF OTHER OTHER UNDERGROUND UTILITIES AND EXISTING SITE CONDITIONS PRIOR TO INSTALLATION.
- C. UTILITY CONTACT INFORMATION:
INTERCOUNTY ELECTRIC CO-OP
102 MAPLE AVE, LICKING MO 65542
DAVID WALKER
EMAIL: david.walker@ieca.coop
PHONE: 1(573)-674-2211

SHEET KEYNOTES

1. UTILITY TO PROVIDE A SEPARATE METER FOR EXISTING WELL SERVICE AND NEW SHOWER HOUSE. UNDERGROUND WIRES TO THE NEW WELL METER SHALL BE INSTALLED BY THE CONTRACTOR.
2. SECONDARY FEEDERS FROM EXISTING UTILITY TRANSFORMER TO SERVICE ENTRANCE DISCONNECT. REFER TO ONE-LINE DIAGRAM FOR WIRE AND CONDUIT SIZES.
3. EXISTING SHOWER HOUSE SHALL BE DEMOLISHED. SEE CIVIL SHEET C-101 FOR ADDITIONAL DETAILS. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE POWER SHUT OFF WITH THE PARK AND UTILITY. SAFELY DISCONNECT AND DISPOSE OF ALL ELECTRICAL EQUIPMENT, FIXTURES, CONDUIT, AND WIRES.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307019

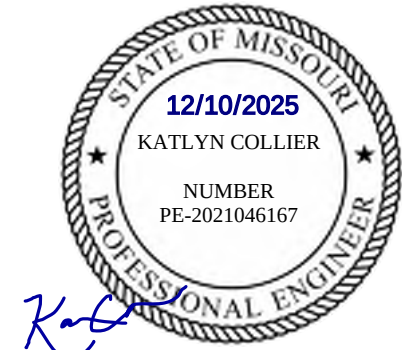
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: ERR
CHECKED BY: KC
DESIGNED BY: ERR

SHEET TITLE:
**ELECTRICAL SITE
PLAN - MONTAUK
LOOP 4**

SHEET NUMBER:

E-002



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307019

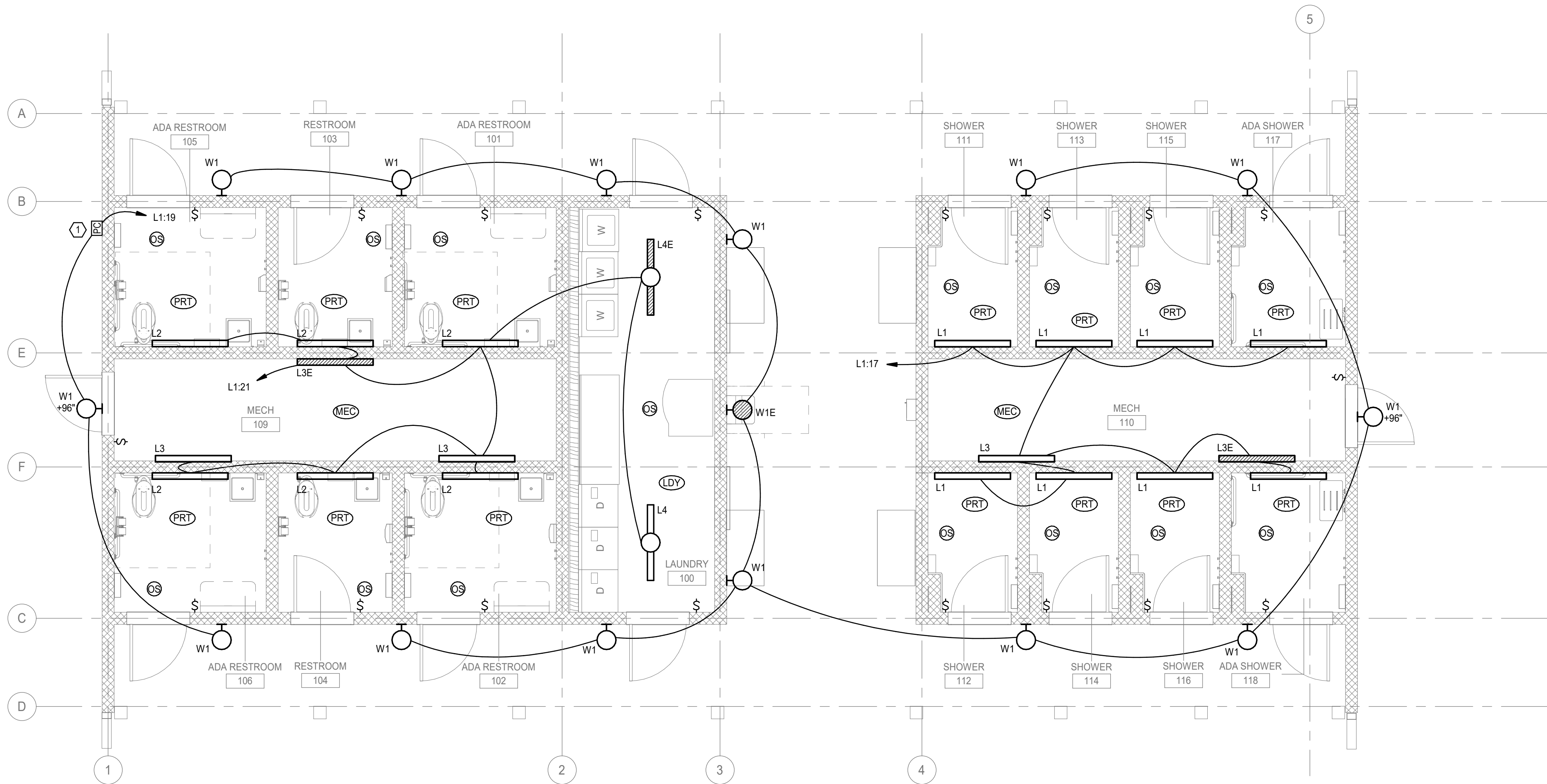
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: ERR
CHECKED BY: KC
DESIGNED BY: ERR

SHEET TITLE:
LIGHTING PLAN

SHEET NUMBER:

E-101

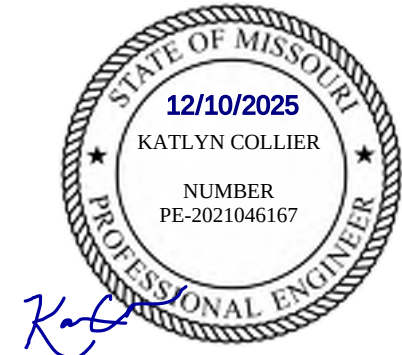


XX SHEET KEYNOTES

1. MOUNT EXTERIOR PHOTOCELL ON NORTH SIDE OF BUILDING ROOF. ENSURE THERE ARE NO OBSTRUCTIONS TO THE SENSOR. LIGHTING PLAN IS A TYPICAL LAYOUT FOR EACH SITE. COORDINATE FINAL PLACEMENT OF PHOTOCELL BASED ON SITE ADAPTED LOCATIONS.

1 LIGHTING PLAN

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



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 4

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307019

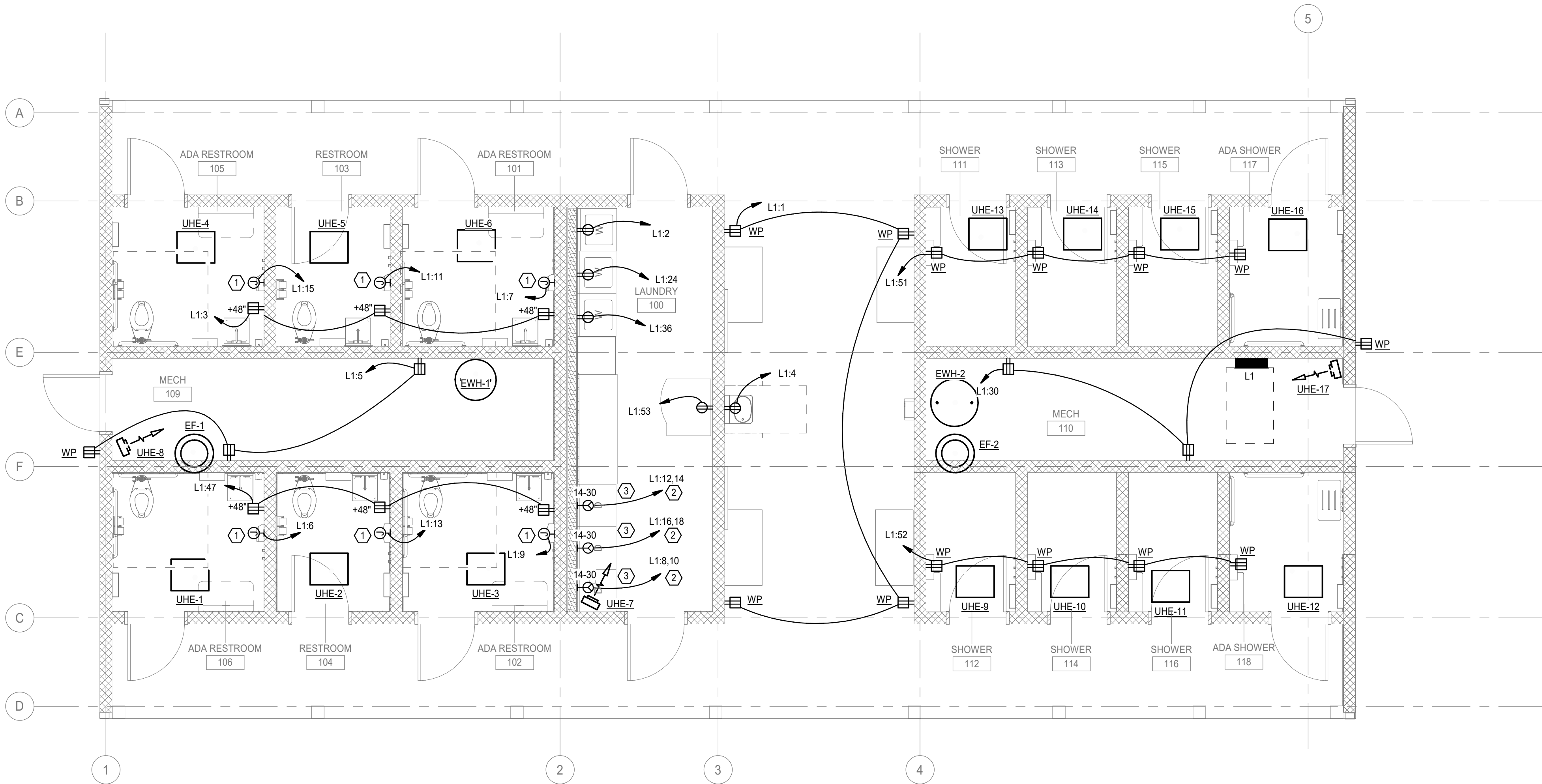
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: ERR
CHECKED BY: KC
DESIGNED BY: ERR

SHEET TITLE:
POWER PLAN

SHEET NUMBER:

E-201



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

xx SHEET KEYNOTES

1. POWER FOR HAND DRYER. COORDINATE FINAL LOCATION WITH ARCHITECTURAL PLANS.
2. PROVIDE 2 #12, #12 GND, IN 3/4" C. FOR DRYER CIRCUITS.
3. PROVIDE NEMA 14-30R PLUG KIT FOR DRYERS WITH 3#10, 1#10 GND, IN 3/4"C.

FIXTURE TYPE	DESCRIPTION	MANUFACTURER	MODEL	TOTAL INPUT WATTS	LAMP			VOLTAGE	DIMMING	MOUNTING	NOTES
					LUMENS	CCT	CRI				
L1	WALL MOUNT RECESSED HORIZONTAL LINEAR -4'- WET RATED	COOPER	4VT3-LD5-4-G-UNV-L835K-CD1	32	4000	3500 K	80	120	0-10V	WALL	MOUNTING HEIGHT 8'-0" AFF TO CENTER OF FIXTURE. COORDINATE FINAL LOCATION WITH ARCHITECTURE.
L2	WALL MOUNT RECESSED HORIZONTAL LINEAR - 4'	COOPER	4SNX-33SL-LN-UNV-L835-CD-1	21	3443	3500 K	80	120	0-10V	WALL	MOUNTING HEIGHT 8'-0" AFF TO CENTER OF FIXTURE. COORDINATE FINAL LOCATION WITH ARCHITECTURE.
L3	WALL MOUNT RECESSED HORIZONTAL LINEAR - 4'	COOPER	4SNX-57SL-LN-UNV-L835-CD-1	40	5884	3500 K	80	120	0-10V	WALL	MOUNTING HEIGHT 8'-0" AFF TO CENTER OF FIXTURE. COORDINATE FINAL LOCATION WITH ARCHITECTURE.
L3E	WALL MOUNT RECESSED HORIZONTAL LINEAR - 4' WITH BATTERY BACKUP	COOPER	4SNX-57SL-LN-UNV-L835-CD-1-EL7W	40	5884	3500 K	80	120	0-10V	WALL	MOUNTING HEIGHT 8'-0" AFF TO CENTER OF FIXTURE. COORDINATE FINAL LOCATION WITH ARCHITECTURE.
L4	CEILING MOUNT HORIZONTAL LINEAR - 4'	COOPER	4SNX-57SL-LN-UNV-L835-CD-1	40	5884	3500 K	80	120	0-10V	CEILING	MOUNTING HEIGHT 8'-6" AFF. COORDINATE FINAL LOCATION WITH ARCHITECTURE.
L4E	CEILING MOUNT HORIZONTAL LINEAR - 4' WITH BATTERY BACKUP	COOPER	4SNX-57SL-LN-UNV-L835-CD-1-EL7W	40	5884	3500 K	80	120	0-10V	CEILING	MOUNTING HEIGHT 8'-6" AFF. COORDINATE FINAL LOCATION WITH ARCHITECTURE.
W1	WALL SCONCE RECTANGULAR	LITHONIA	WDGE1-LED-P2-35K-80CRI-VW-MVOLT-DBLDX	15	1929	3500 K	80	120	-	WALL	MOUNTING HEIGHT 7'-6" AFF TO CENTER OF FIXTURE. UNLESS NOTED OTHERWISE, COORDINATE FINAL LOCATION WITH ARCHITECTURE.
W1E	WALL SCONCE RECTANGULAR WITH BATTERY BACKUP	LITHONIA	WDGE1-LED-P2-35K-80CRI-VW-MVOLT-E4WH-DBLDX	15	1929	3500 K	80	120	-	WALL	MOUNTING HEIGHT 7'-6" AFF TO CENTER OF FIXTURE. UNLESS NOTED OTHERWISE, COORDINATE FINAL LOCATION WITH ARCHITECTURE.

CONDUIT APPLICATION SCHEDULE			
APPLICATION	MATERIAL	FITTING TYPE (IF APPLICABLE)	NOTES
SERVICE ENTRANCE CONDUIT ABOVE GRADE ONLY	RIGID STEEL	-	-
SERVICE ENTRANCE CONDUIT BELOW GRADE WHERE NOT BELOW PAVED AREA	SCH 40 PVC	-	2
FEEDERS ABOVE GRADE	EMT	COMPRESSION	-
ALL BRANCH CIRCUITS FOR LIGHTING AND POWER	EMT	COMPRESSION	-
ALL HVAC EQUIPMENT, SUPPLY/EXHAUST FANS AND MOTORS	EMT	COMPRESSION	-
BRANCH CIRCUITS BELOW GRADE	PVC	-	1
THERMOSTAT WIRING OR CONTROL WIRING IN WALLS	EMT	COMPRESSION	-

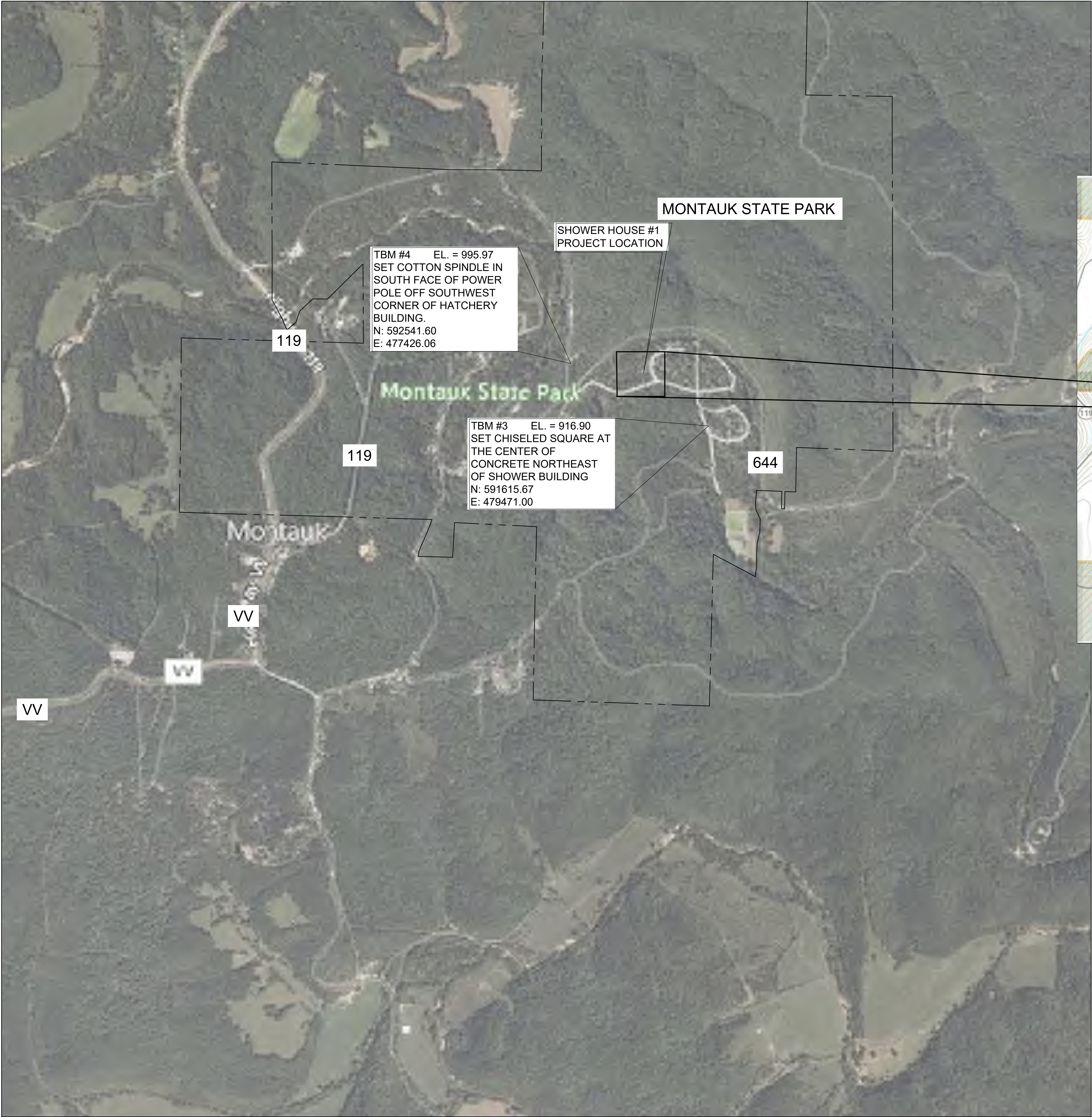
1. TRANSITION TO EMT SHALL BE MADE PRIOR TO COMING UP TO ABOVE GRADE.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN UTILITY COMPANY REQUIREMENTS FOR PRIMARY SERVICE

[illegible]

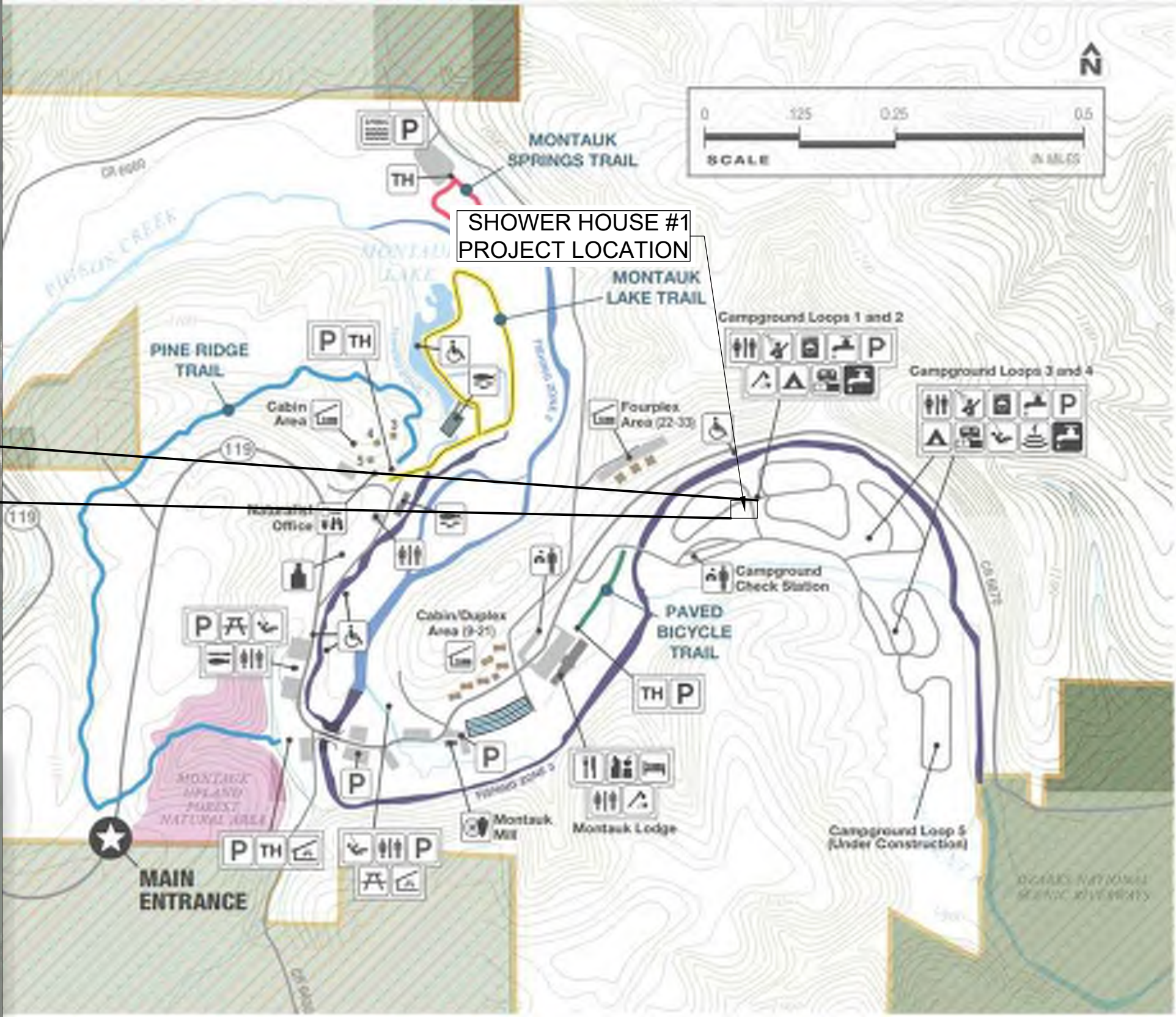
NOTES:
ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT/RECEPTACLE AT EQUIPMENT LOCATION. LOCATE DISCONNECTS/RECEPTACLES/JUNCTION BOXES ADJACENT TO EQUIPMENT SERVED PER NFPA 70 REQUIREMENTS. COORDINATE EXACT MOUNTING LOCATIONS WITH ARCHITECT IF DISCONNECT IS NOT LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL SPACES. PROVIDE STRUT MOUNTING FOR DISCONNECTS IF REQUIRED. IF DISCONNECT IS TO BE LOCATED OUTDOORS, PROVIDE NEMA 3R RATING ON DISCONNECT. ALL DISCONNECTS SHALL BE PROVIDED WITH EQUIPMENT GROUND KIT.

1 SLD - MONTAUK LOOP 4

SCALE: NOT TO SCALE



SCALE: 1" = 800'



2 SHOWER HOUSE #1
SCALE: NOT TO SCALE

SCALE: 1" = 200'

LEGEND

CP#103	CONTROL POINT-BENCHMARK
EM	ELECTRIC METER
GR	GRATE
LTP	LIGHT POLE
PP	POWER POLE
SG	SIGN
SP	STEEL POST
SS	PROPOSED SANITARY SEWER CLEANOUT
SM	EXIST. SANITARY SEWER MANHOLE
TR	TRANSFORMER
WP	WOOD POST
YH	YARD HYDRANT
MT	METERING MANHOLE
715	EXISTING CONTOUR LINE
715	NEW CONTOUR LINE
FW	BARBED WIRE FENCE
CL	CHAIN LINK FENCE
LC	LIMITS OF CONSTRUCTION
TM	TREE MASS
SS	PROPOSED GRAVITY SANITARY SEWER
FM	PROPOSED FORCE MAIN SANITARY SEWER
W	PROPOSED WATER
W	EXISTING WATER
SS	EXIST. SEWER PIPING
P-DH	OVERHEAD POWER

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: G-101.A
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:
LOCATION MAP

SHEET NUMBER:

G-101.A

37 OF 71 SHEETS
10/24/2025

1 SHOWER HOUSE RESTROOM LOCATION MAP
SCALE: 1" = 800'



ABBREVIATIONS

AE	AIR ENTRAINING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
B/	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
C	COMPRESSION
CA	CAISSON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE(D)(OUS)
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION(S)
DL	DEAD LOAD
DP	DRILLED PIER
DWG	DRAWING
EA	EACH
ECC	ECCENTRICITY
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EOR	ENGINEER OF RECORD
EO	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EWEF	EACH WAY EACH FACE
FF	FINISHED FLOOR
FFE	EXISTING FINISHED FLOOR
FND	FOUNDATION
FT	FEET (FOOT)
FG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GL	GLUE LAMINATE TIMBER
HORZ	HORIZONTAL
HS	HEADED STUD
ID	INSIDE DIAMETER
K	KIP (1000 POUNDS)
KLF	KIPS PER LINEAR FOOT
LB, #	POUNDS
LFRS	LATERAL FORCE RESISTING SYSTEM
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG-LEG HORIZONTAL
LLV	LONG-LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NO, #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
PEMB	PRE-ENGINEERED METAL BUILDING
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUND PER SQUARE FOOT
PSI	POUND PER SQUARE INCH
PT	POST TENSION(ED)
QTY	QUANTITY
R	RADIUS
REINF	REINFORCE(D)
REV	REVISED/REVISION
RH	RIGHT HAND
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SF	SQUARE FOOT
SIM	SIMILAR
SLRS	SEISMIC LOAD RESISTING SYSTEM
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
T	TENSION
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROVE
TI	TOP OF
TBD	TO BE DETERMINED
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VERTICAL
VERF	VERIFY IN FIELD
WI	WITH
W/O	WITHOUT
WG	WORKABLE GAGE
WP	WORKING POINT
WWR	WELDED WIRE REINFORCEMENT

GENERAL NOTES

- THE STRUCTURAL DRAWINGS ARE TO BE COORDINATED AND USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, PROCESS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL AND PROCESS DRAWINGS AND IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
- OLSSON SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CHARGE OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- OLSSON SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OVER, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. ALL SHORING AND BRACING MEMBERS AND CONNECTIONS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOADS. TEMPORARY MEMBERS AND CONNECTIONS SHALL NOT BE REMOVED UNTIL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.
- THE CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS, ELEVATIONS, AND MEMBER SIZES AS SHOWN ON THE CONTRACT DRAWINGS FOR THE EXISTING CONSTRUCTION PRIOR TO THE DETAILING OR FABRICATION OF ANY NEW STRUCTURAL ELEMENT. THE CONTRACTOR SHALL DOCUMENT ANY CONSTRUCTION-RELATED DISCREPANCIES. PRIOR TO THE SCHEDULED START OF ANY DETAILING OR FABRICATION, THE CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND/OR SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO, REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
- NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE STRUCTURAL ENGINEER.
- PROVIDE SLEEVE LAYOUTS FOR ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS FOR ALL TRADES. LAYOUTS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL ROOF MOUNTED EQUIPMENT OR EQUIPMENT SUSPENDED FROM FLOORS OR THE ROOF SHALL BE SUPPORTED BY BEAMS DESIGNATED FOR SUCH PURPOSE ONLY. IF NO SUPPORT HAS BEEN DESIGNATED, OR IF A QUESTION ARISES, NOTIFY STRUCTURAL ENGINEER PRIOR TO ERECTION OF EQUIPMENT.
- ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED. SEE THE ARCHITECTURAL DRAWINGS FOR DETAILS AND DIMENSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
- MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE CAPACITY OF THE CONSTRUCTION.
- THE SPECS AND REQUIREMENTS INDICATED ON THIS SHEET ARE INTENDED AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTION, AND INSPECTION REQUIREMENTS FOR THE PROJECT. ADDITIONAL, MORE STRINGENT REQUIREMENTS MAY BE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE REQUIREMENTS INDICATED ON THIS SHEET AND THOSE IN THE PROJECT SPECS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURBS, OPENINGS, AND DEPRESSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.
- EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS, AND INSERTS, SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
- THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS.
- THE STEEL FRAMING COMPONENTS SHOWN RELY ON BUILDING COMPONENTS OTHER THAN STRUCTURAL STEEL FOR FINAL STRUCTURAL STABILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ANY AND ALL TEMPORARY BRACING AND SHORING AGAINST WIND. ERECTION AND ALL CONSTRUCTION LOADS UNTIL ALL ELEMENTS, MEMBERS, AND CONNECTIONS (FLOORS, ROOF, SHEAR WALLS, ETC), AS SHOWN ON THE CONTRACT DOCUMENTS ARE COMPLETELY INSTALLED. THE STRUCTURAL MEMBERS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNED FOR THE ANTICIPATED LOADS THAT THE STRUCTURE WILL BE SUBJECTED TO ONLY AFTER ALL STRUCTURAL ELEMENTS ARE IN PLACE AND FINAL CONNECTIONS ARE COMPLETE.
- THE ENGINEER HAS ASSUMED THAT THE EXISTING CONSTRUCTION WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD PRACTICES. THE CONTRACTOR SHALL TAKE EXTRAORDINARY PRECAUTIONS CONCERNING PRESERVATION OF THE BUILDING DURING DEMOLITION AND NEW CONSTRUCTION WORK. FURTHERMORE, THEY SHALL AGREE TO ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THIS PROPERTY.
- VEHICLES IN EXCESS OF LEGAL OR POSTED LOADS WILL NEED TO APPLY TO STATE PARKS FOR PERMISSION TO CROSS PARK-OWNED STRUCTURES. WHERE NECESSARY ON PUBLIC ROADS, PERMITS SHOULD BE APPLIED TO MODOT ACCORDING TO STATE REGULATIONS. THE CAMPGROUND BRIDGE OVER THE CURRENT RIVER (BRIDGE ID 25309) IS CURRENTLY POSTED AT 15 TONS AND IS OWNED BY THE STATE PARK. THE PARK HAS AN INSPECTION AND LOAD RATING COMPLETED WITH AN ASSUMED OVERSIZED LOAD FOR THE PRECAST SHOWER STRUCTURE, WHICH WEIGHED 63 TONS AND WAS 53 FEET LONG. THE FINDING WAS THAT THIS ASSUMED THE VEHICLE DID NOT VIOLATE THE OPERATING RATING, SO THE INDIVIDUAL PERMIT PASSAGE WOULD BE ALLOWED UNDER STRICTLY CONTROLLED CONDITIONS. STATE PARKS ENGINEER WILL REVIEW THE CONTRACTOR'S PROPOSED VEHICLES, RE-RUN THE RATING WITH THE ACTUAL CONTRACTOR'S VEHICLES, AND FACILITATE A PERMIT AND/OR CONVEY LIMITATIONS AS A PRECONSTRUCTION WORK ITEM. CONTRACTORS SHOULD ASSUME TIME FOR THIS COORDINATION EFFORT AND THAT VEHICLES IN EXCESS OF LEGAL OR POSTED LOADS MAY NEED TO UTILIZE FLAGGERS TO RESTRICT THE BRIDGE TO A SINGLE LANE OR STRICTLY OBSERVE LIMITATIONS ON SPEED, AND THIS WORK SHOULD BE FACTORED IN TO THE BIDS. INFORMATION FOR MODOT ON-SYSTEM PERMITS CAN BE FOUND HERE: <https://www.modot.org/OSOW>.

STRUCTURAL GENERAL CONSTRUCTION:

- ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE.
 - THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
 - NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
 - NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOADS IMPOSED ON THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE LESSER OF THE ALLOWABLE CONSTRUCTION LIVE LOAD AS INDICATED ON THE CONTRACT DRAWINGS, OR THE CAPACITY OF THE FRAMING.
 - THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. AS A RESULT OF THE CONSTRUCTION MEANS, METHODS, AND/OR SEQUENCES CHOSEN BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY DURING CONSTRUCTION.
 - DO NOT SCALE DRAWINGS, USE DIMENSIONS.
 - THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BASED UPON THE REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR SPECIFICALLY INFORMED THE ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATION.
- EARTHWORK**
- ISTOPI CALL BEFORE YOU DIG! THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "811" AND COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. NOTIFY THE STRUCTURAL ENGINEER WHENEVER CONFLICTS ARE ENCOUNTERED.
 - SHALLOW FOUNDATIONS: CONTINUOUS WALL FOOTINGS, ISOLATED SPREAD FOOTINGS, AND GROUND SUPPORTED MAT FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON FIRM NATIVE SOILS OR COMPACTED ENGINEERED FILL.
 - GENERAL CONTRACTOR SHALL COMPACT EXPOSED FOOTING BOTTOMS AND EXPOSED AGGREGATES PIER SURFACES WITH HAND-OPERATED, MECHANICAL COMPACTION EQUIPMENT AFTER EACH FOOTING EXCAVATIONS IS COMPLETED AND PRIOR TO PLACING STEEL OR CONCRETE.
 - REFER TO THE GEOTECHNICAL REPORT IN THE SPECIFICATIONS FOR THE FOLLOWING LATERAL EARTH PRESSURES:
 - ACTIVE DRAINED EARTH PRESSURES
 - UNDRAINED ACTIVE EARTH PRESSURES
 - AT-REST DRAINED EARTH PRESSURES
 - AT-REST UNDRAINED EARTH PRESSURES
 - PASSIVE EARTH PRESSURE
 - ALL UNSUITABLE SOILS SHALL BE REMOVED WITHIN THE EXCAVATION AREA OF THE FOUNDATIONS. ALL FOOTINGS SHALL BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL.
 - FOUNDATIONS EXPOSED TO FROST SHALL BE PLACED SUCH THAT THE BOTTOM OF FOUNDATION IS AT LEAST 24"BELOW THE ADJACENT FINISHED GRADE.
 - SHOULD UNSUITABLE BEARING CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY THE OWNER, ARCHITECT, AND STRUCTURAL ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.
 - THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION AND RE-APPROVAL OF THE SUBGRADE.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
 - RECORDS OF ANY EXISTING SUBGRADE INTERFERENCES, OTHER THAN THOSE INTERFERENCES SHOWN OR INDICATED ON THE CIVIL CONSTRUCTION DOCUMENTS, ARE NOT CURRENTLY AVAILABLE. DURING EXCAVATION WORK, INTERFERENCES MAY BE DISCOVERED. CONTRACTOR SHALL DOCUMENT CONSTRUCTION-RELATED DIMENSIONS OF ALL INTERFERENCES. CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.
 - THE CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS AND THE SUBSURFACE SOILS EXPLORATION REPORT AND ESTABLISH SPECIFIC "CONSTRUCTION PROCEDURES AND SEQUENCES" FOR THE EXCAVATION, COMPACTION, FILL, AND INSTALLATION OF THE NEW BUILDING FOUNDATION. SUBMIT THESE FOR REVIEW TO THE OWNER'S SOIL TESTING LABORATORY, OWNER'S REPRESENTATIVE, AND STRUCTURAL ENGINEER.
 - DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE PERMANENT BELOW-GRADE LATERAL BRACING SYSTEM IS IN PLACE AND THE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
 - ALL SLABS-ON-GRADE SHALL BE PLACED OVER A LOW PERMEANCE VAPOR BARRIER, 15 MIL MINIMUM THICKNESS, OVER A BASE/SUBBASE. EXISTING SUBBASE WILL BE COMPACTED IN PLACE OR WILL BE CUT OUT AND REPLACED WITH AN ENGINEERED FILL.
 - FLOWABLE FILL FOR USE AS FOUNDATION SUPPORT IS DEFINED AS CONTROLLED LOW STRENGTH MATERIAL (CLSM)
 - FLOWABLE FILL IN NOT INTENDED TO BE EXCAVATABLE IN THE FUTURE.
 - PROVIDE CONCRETE CONTRACTOR'S STANDARD MIX FOR FLOWABLE FILL THAT MEETS THE FOLLOWING REQUIREMENTS:
 - CONFORM TO THE RECOMMENDATIONS OF ACI 229R-99.
 - 28 DAY MINIMUM COMPRESSIVE STRENGTHS OF 100PSI.
 - MIXTURE SHALL FLOW INTO PLACE AND CONSOLIDATE DUE TO ITS FLUIDITY WITHOUT VIBRATION OR PUDDLING ACTION.
 - LIMIT SUBSISTENCE OF FLOWABLE FILL TO 1/8" PER FOOT OF DEPTH
 - CURING PROCEDURES ARE NOT REQUIRED, BUT PROTECT FROM FREEZING UNTIL MIX HAS HARDENED.

REINFORCED MASONRY

- PLACING CONCRETE MASONRY UNITS:
 - USE RUNNING BOND, FULLY BOND CORNERS BY OVERLAPPING OF UNITS.
 - PLACE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT EVERY SECOND BED JOINT. PLACE REINFORCEMENT AT FIRST AND SECOND JOINTS ABOVE AND BELOW OPENINGS. LAP SPLICES 6" MINIMUM. PROVIDE PREFABRICATED "I" AND "L" SECTIONS AT INTERSECTIONS AND CORNERS.
 - MAINTAIN FLUSH FACE ON EXPOSED MASONRY SURFACES.
 - FACE SHELLS: FULLY MORTARED.
 - WEBS: FULLY MORTARED IN PIERS, PILASTERS, STARTING COURSE AT FOUNDATION OR FLOOR LEVEL AND WHERE ADJACENT CELLS OR CAVITIES ARE TO BE GROUTED.
 - HEAD SHELLS: MORTARED FROM EACH FACE EQUAL TO THE FACE SHELL THICKNESS.
 - KEEP VERTICAL CELLS THAT ARE TO BE GROUTED ALIGNED AND FREE FROM OBSTRUCTIONS AND MORTAR FINS.
 - DO NOT LAY DAMAGED UNITS.
 - PERFORM JOB SITE CUTTING WITH PROPER TOOLS TO PROVIDE STRAIGHT AND TRUE UNCHIPPED EDGES.
 - TOOL JOINTS WHEN MORTAR IS THUMB PRINT HARD TO FORM CONCAVE JOINTS.
 - COVER TOP OF UNFINISHED MASONRY WORK.
- GROUTING:**
- VERIFY REINFORCEMENT IS PROPERLY PLACED AND SECURED IN POSITION PRIOR TO GROUTING.
 - ALL BOND BEAMS SHALL BE GROUTED SOLID.
 - FULLY GROUT CELLS AT EACH SIDE OF OPENINGS AND CONTROL JOINTS WITH (1) #5 BAR PLACED IN CENTER OF CELL, UNLESS OTHERWISE SHOWN ON DRAWINGS.
 - PLACE GROUT IN LIFTS NOT EXCEEDING 8'-0". CONSOLIDATE AT TIME OF PLACEMENT BY RODDING OR VIBRATING FOLLOWED BY RECONSOLIDATION LATER BEFORE PLASTICITY IS LOST.
 - IF TOTAL HEIGHT OF GROUT PLACEMENT IS TO EXCEED 8'-0", PLACE GROUT IN 4'-0" LIFTS. IF GROUTING IS STOPPED FOR MORE THAN ONE HOUR BETWEEN LIFTS, FORM A HORIZONTAL CONSTRUCTION JOINT BY STOPPING THE POUR 4" BELOW THE TOP OF THE CONCRETE MASONRY UNIT.
- HOT AND COLD WEATHER CONDITIONS:**
- COLD WEATHER: CONFORM TO THE REQUIREMENTS OF ACI/ASCE 530 WHEN THE AMBIENT TEMPERATURE FALLS BELOW 40°F
 - HOT WEATHER: WHEN AIR TEMPERATURE EXCEEDS 90°F DO NOT SPREAD MORTAR BED MORE THAN 4'-0" AHEAD OF MASONRY. SET MASONRY UNITS WITHIN ONE MINUTE OF SPREADING MORTAR.
- SEALANTS:**
- INTERIOR JOINTS: ONE COMPONENT POLYURETHANE APPLIED OVER BACKER ROD.
 - EXTERIOR JOINTS: MULTICOMPONENT POLYURETHANE OR TWO COMPONENT POLYSULFIDE SEALANT APPLIED OVER BACKER ROD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - FIRE-STOP SEALANT: FYRE-SIL MFG BY TREMCO.
 - BACKER ROD: ROUND CLOSED CELL POLYETHYLENE.
 - MINERAL WOOL: 6 LBS PER CUBIC FOOT DENSITY COMPRESSED INTO PLACE. DO NOT USE FIBERGLASS BATTS.
- CONSTRUCTION PRECAUTIONS:**
- ADEQUATELY BRACE ALL WALLS DURING CONSTRUCTION.
 - IF INTERIOR WALLS ARE CONSTRUCTED PRIOR TO ENCLOSURE OF STRUCTURE, PROVIDE ADEQUATE TEMPORARY BRACING. REMOVE BRACING AFTER STRUCTURE IS ENCLOSED.
 - DO NOT EMBED ALUMINUM CONDUIT, PIPE OR ACCESSORIES IN MASONRY.

SHOP DRAWINGS

- ALL SHOP DRAWING SUBMITTALS SHALL BE AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR IN THESE NOTES.
- SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER.
- THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE GENERAL CONTRACTOR SHALL APPROVE AND SO STAMP EACH SUBMISSION.
- SHOP SUBMITTALS SHALL BE SUBMITTED IN A DIGITAL FORMAT. MULTIPLE COPIES OF DRAWINGS WILL NOT BE MARKED-UP WITH REVIEW COMMENTS.
- THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS BACKGROUNDS FOR THE PRODUCTION OF ANY SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW.
- ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE "FOR CONSTRUCTION" DESIGN DOCUMENTS OF THE PROJECT SHALL BE BOLDLY NOTED AND BUBBLED ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL TO BRING TO THE EOR'S ATTENTION.
- ALL CHANGES TO RESUBMITTED SHOP DRAWINGS SHALL BE BUBBLED.

WOOD:

- WOOD CONSTRUCTION, BOTH LOAD BEARING AND NON LOAD BEARING, THAT WILL BE IN PERMANENT CONTACT WITH CONCRETE OR MASONRY, SHALL BE PRESERVATIVE-TREATED WOOD CONFORMING TO THE REQUIREMENTS OF THE APPLICABLE AWP STANDARD U1 AND M4 FOR THE SPECIES, PRODUCT, PRESERVATIVE, AND END USE.
- WHERE PRESERVATIVE-TREATED WOOD IS USED IN ENCLOSED LOCATIONS WHERE DRYING IN SERVICE CANNOT READILY OCCUR, SUCH WOOD SHALL BE AT A MOISTURE CONTENT OF 19 PERCENT OR LESS BEFORE BEING COVERED WITH INSULATION, INTERIOR WALL FINISH, FLOORING COVERING OR OTHER MATERIALS.
- LAMINATED VENEER LUMBER (LVL) SHALL CONFORM TO ASTM D5456 FOR STRUCTURAL COMPOSITE LUMBER.
- CONSTRUCTION OR NO. 2 GRADE 2X LUMBER IS PERMITTED IN ALL LOAD BEARING, NON-LOAD BEARING, AND WOOD NAILER APPLICATIONS.

DESIGN CRITERIA:

BUILDING CODE INTERNATIONAL BUILDING CODE, 2024 EDITION (IBC 2024)

DESIGN LOADS:	
RISK CATEGORY	= II
DEAD LOADS	
ROOF (GENERAL)	= 10 PSF
FLOOR (GENERAL)	= 75 PSF
LIVE LOADS	
ROOF (GENERAL)	= 20 PSF
WIND	
WIND SPEED	= 100 PSF
SLAB-ON-GRADE	= 125 PSF
SNOW LOADS	
GROUND SNOW LOAD, Pg	= 20 PSF
FLAT ROOF SNOW LOAD, Pf	= 14 PSF
SNOW EXPOSURE FACTOR, Ce	= 1.0
SNOW LOAD IMPORTANCE FACTOR, Is	= 1.0
THERMAL FACTOR, Ct	= 1.0
MINIMUM SNOW LOAD, Pm	= 20 PSF
WIND	
BASIC WIND SPEED (3 SECOND GUST)	= 115 PSF
WIND IMPORTANCE FACTOR	= 1.0
WIND EXPOSURE CATEGORY	= B
EARTHQUAKE DATA - STRUCTURAL	
RISK CATEGORY	= II
SEISMIC IMPORTANCE FACTOR	= 1.0
SITE CLASS	= D
SPECTRAL RESPONSE COEFFICIENTS	Ss = 0.56 g; Sd1 = 21 g
DESIGN SPECTRAL RESPONSE COEFF'S	Sds = 0.42 g; Sd1 = 0.25 g
SEISMIC DESIGN CATEGORY	C
DESIGN BASE SHEAR	Vu = 5 KIPS
SEISMIC RESPONSE COEFFICIENT	Cs = 0.048
RESPONSE MODIFICATION COEFFICIENT	R = 5.5
OVERSTRENGTH FACTOR	Qs = 2.5
DEFLECTION FACTOR	Cd = 1.75
NEW CONSTRUCTION	
SEISMIC FORCE-RESISTING SYSTEM	NEW CONSTRUCTION WILL BE DETAILED TO MEET SPECIAL REINFORCED MASONARY SHEAR WALLS EQUIVALENT LATERAL FORCE PROCEDURE
ANALYSIS PROCEDURE	

FOUNDATIONS:

- EXCAVATIONS NEAR FOOTINGS OR FOUNDATIONS, FOR ANY PURPOSE, SHALL NOT REMOVE LATERAL SUPPORT FROM ANY FOOTING OR FOUNDATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE FOOTING AND PROTECTING AGAINST SETTLEMENT OR LATERAL TRANSLATION.
- BACKFILL FOR FOUNDATIONS ELEMENTS SHALL BE MADE WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS, COBBLES, AND BOULDERS. IN LIEU OF SOIL, CONTROLLED LOW STRENGTH MATERIAL (CLSM) CAN BE USED IF A WRITTEN REQUEST IS SUBMITTED TO THE OWNER'S REPRESENTATIVE AND THAT REQUEST IS APPROVED BY THE ENGINEER AS WELL AS THE OWNER.
- BACKFILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 9 INCHES IN DEPTH. THE LIFTS SHALL BE COMPACTED WITH HAND-OPERATED TAMPERS OR OTHER PORTABLE COMPACTION EQUIPMENT. CARE SHALL BE TAKEN TO PREVENT ANY POSSIBLE DAMAGE TO WATERPROOFING OR DAMPPROOFING INSTALLATIONS AND TO AVOID OVERCOMPACTION WHICH CAUSES EXCESSIVE LATERAL EARTH PRESSURE AGAINST THE FOUNDATION ELEMENTS.
- FOOTINGS, FOUNDATIONS, AND/OR GRADE BEAMS SHALL BE PLACED ON A PREPARED SUBGRADE OR UNDISTURBED SOIL STRATA HAVING A MINIMUM NET ALLOWABLE BEARING PRESSURE OF 2000 PSF.

SLABS ON GRADE:

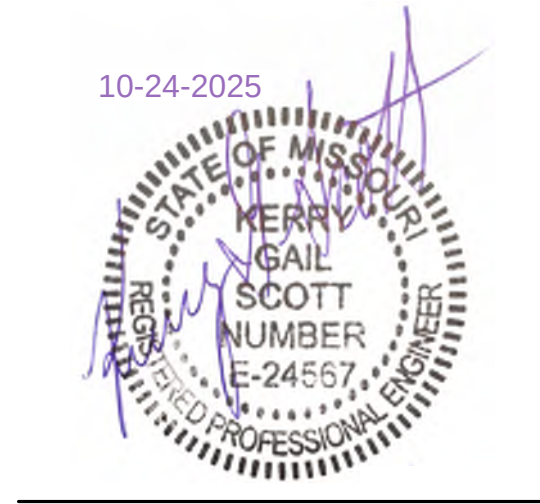
- CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED TO THE MINIMUM THICKNESS AND WITH THE REINFORCEMENT SHOWN ON THE FOUNDATION PLAN.
- THE MAXIMUM TOTAL REDUCTION OF CONCRETE SLAB ON GRADE THICKNESS FROM EMBEDDED CONDUITS, PIPES, ETC. SHALL BE 1 INCH.
- SUBGRADES AND SUBBASES SHALL BE GRADED WITHIN THE TOLERANCES SPECIFIED IN THE EARTHWORK OR EARTH MOVING SPECIFICATION.
- THE SOIL SUBGRADE SHALL BE PROOF ROLLED ONCE ROUGH GRADING IS COMPLETED. THE PROOF ROLLING SHALL BE OBSERVED AND EVALUATED BY THE ENGINEER AND SHOULD BE ACCOMPLISHED BY A LOADED TANDEM AXLE DUMP TRUCK, A LOAD TRUCK MIXER, ROLLER, OR EQUIVALENT HAVING A MINIMUM WEIGHT OF 15 TONS. MULTIPLE PASSES SHOULD BE MADE USING A PRE-ESTABLISHED GRID PATTERN. ANY DEFLECTIVE AREAS IDENTIFIED BY THE ENGINEER SHALL BE CORRECTED AND TESTED AGAIN.
- THE SOIL SUBGRADE SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 95 PERCENT BASED ON A STANDARD PROCTOR ACCORDING TO ASTM D698. THE SUBGRADE SHOULD BE COMPACTED PRIOR TO FOOTING AND FOUNDATION INSTALLATION IF THE COMPACTION OF THE SUBGRADE WILL IMPOSE EXCESSIVE LATERAL PRESSURE ON THE FOUNDATION ELEMENTS.
- A 5 INCH AGGREGATE DRAINAGE BASE COURSE SHALL BE PLACED BETWEEN THE SLAB ON GRADE AND THE PREPARED SUBGRADE. THE DRAINAGE BASE SHALL BE A NARROWLY GRADED MIXTURE OF WASHED CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL MEETING AN ASTM D448 COARSE AGGREGATE GRADING #7 WITH 100 PERCENT PASSING A 1½ INCH SIEVE AND 0 TO 5 PERCENT PASSING A NO. 8 SIEVE.
- A MINIMUM 6-mil THICK POLYETHYLENE VAPOR RETARDER SHALL BE PLACED BETWEEN THE DRAINAGE COURSE AND THE SLAB ON GRADE. THE JOINTS OF THE VAPOR BARRIER SHALL BE LAPPED A MINIMUM OF 6 INCHES. IF THE TOP SURFACE OF THE DRAINAGE COURSE IS RELATIVELY ROUGH AND PUNCTURING OF THE VAPOR RETARDER IS LIKELY, THEN IT SHALL BE TOPPED WITH A 1/2 INCH LAYER OF ASTM D448 NO. 10 FINE GRADED MATERIAL.

CONCRETE:

- MINIMUM CONCRETE COMPRESSIVE STRENGTH (fc) AT 28 DAYS SHALL BE:

FOOTINGS, FOUNDATIONS, AND GRADE BEAMS	4000 PSI
SLABS ON GRADE	4000 PSI
THE MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE VERIFIED BY FIELD QUALITY CONTROL ACCORDING TO THE SPECIFICATIONS. SEE CAST-IN-PLACE CONCRETE SPECIFICATION.	
THE MINIMUM YIELD STRENGTH (fy) OF BOTH DEFORMED BAR REINFORCEMENT AND WELDED WIRE FABRIC SHALL BE 60,000 PSI.	
UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS, THE PROTECTION OF CONCRETE REINFORCEMENT SHALL ADHERE TO SECTION 7.7.1 OF ACI 318-05. THE FOLLOWING DOES NOT APPLY TO SLABS ON GRADE.	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
NO. 6 THROUGH NO. 18 BARS	2"
NO. 5 BAR, W31 OR D31 WIRE AND SMALLER	1.5"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:	
SLABS, WALLS, JOISTS	
NO. 14 AND NO. 18 BARS	1.5"
NO. 11 BAR AND SMALLER	0.75"
BEAMS AND COLUMNS	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS	1.5"
UNLESS OTHERWISE SHOWN OR NOTED, SPLICING OF CONCRETE REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-05, SECTIONS 12.14, 12.15, AND 12.16. DEFORMED BARS AND WIRE IN TENSION SHALL USE A CLASS B SPLICE.	
ALL HORIZONTAL BARS IN WALLS, FOOTINGS, AND GRADE BEAMS SHALL BE BENT OR SPLICED AT CORNERS AND INTERSECTIONS IN SUCH A WAY THAT CONTINUITY IS PROVIDED THROUGH THE JOINT.	

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWERS
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSETS # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: G-102.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

GENERAL AND
STRUCTURAL NOTES

SHEET NUMBER:

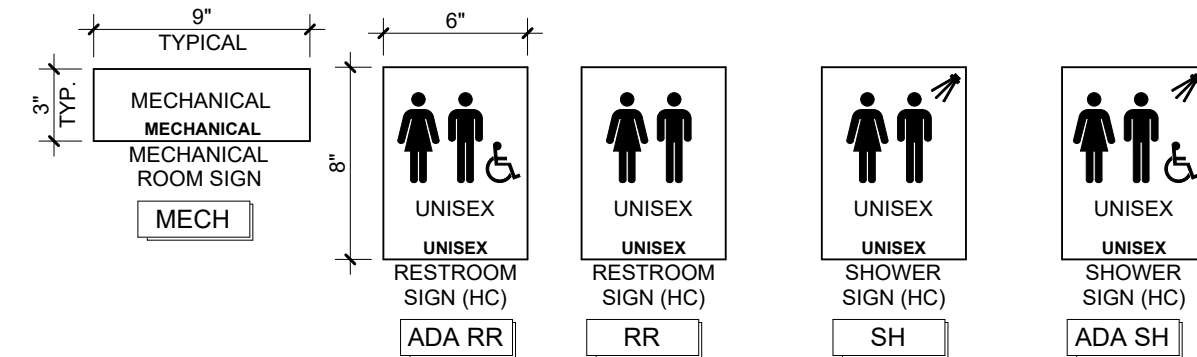
G-102.A

PANEL SIGNAGE LEGEND

1. PROVIDE THE FOLLOWING PANEL SIGNS AS INDICATED ON THE CODE PLANS.
2. INSTALL SIGNS (HEIGHTS AND LOCATIONS) AS DIRECTED BY OWNER'S REPRESENTATIVE. SIGNS TO BE PLACED 48" ABOVE FINISH FLOOR AT MINIMUM AND PLACED 60" ABOVE FINISH FLOOR AT MAXIMUM.
3. PROVIDE TACTILE EXIT SIGNAGE AT EACH EXIT DOOR COMPLIANT WITH THE APPLICABLE IBC VERSION, ANSI 117.1, AND AS IDENTIFIED UNDER OTHER APPLICABLE CODES.
4. COLOR OF PANEL SIGNAGE TO BE SELECTED BY ARCHITECT PRIOR TO FABRICATION FROM MANUFACTURER STANDARD LINE OF COLORS.
5. SIGNS SHALL BE ONE PIECE CONSTRUCTION WITH THE EXCEPTION OF APPLIED VINYL LETTERS AND CHARACTERS.
6. ALL SIGNAGE TO BE ADA AND ANSI COMPLIANT.
7. ALL SIGNAGE TO BE 1/8" THICK COLORED ACRYLIC WITH COLORED MATTE FINISH.
8. ALL SIGNAGE EDGES TO BE POLISHED.
9. CHARACTERS TO BE CUT VINYL APPLIED. COLOR OF CHARACTERS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER STANDARD LINE OF COLORS.
10. LETTERS TO BE 3/4" CUT VINYL APPLIED. LETTERS TO BE A FONT AND COLOR SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD LINE OF COLORS.
11. ALL ROOM DESIGNATIONS ARE TO BE PROVIDED BY OWNER.
12. PROVIDE RAISED BRAILLE CHARACTERS ON ALL PANEL SIGNS.
13. SEE SPECIFICATIONS FOR MORE INFORMATION.
14. SEE FINISH FLOOR PLANS FOR ANY ADDITIONAL NON-CODE RELATED SIGNAGE.

PANEL SIGNAGE TAGS

PROVIDE ONE (1) SIGN PER  COMPLYING WITH ADA LOCAL CODE. SIGN TO HAVE RAISED CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH ANSI AND ADA GUIDELINES. SIGN FINISHES TO BE SELECTED BY A.O.R.



OCCUPANT LOAD SCHEDULE

ROOM INFORMATION			IBC CHAPTER 10	
NO.	NAME	AREA	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
101	ADA RESTROOM	59 SF (none)		
102	ADA RESTROOM	59 SF (none)		
103	RESTROOM	44 SF	LOCKER ROOMS	50 SF
104	RESTROOM	44 SF	LOCKER ROOMS	50 SF
105	RESTROOM	44 SF	LOCKER ROOMS	50 SF
106	RESTROOM	44 SF	LOCKER ROOMS	50 SF
107	ADA RESTROOM	59 SF	LOCKER ROOMS	50 SF
108	ADA RESTROOM	59 SF	LOCKER ROOMS	50 SF
109	MECH	162 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF
110	MECH	119 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF
111	SHOWER	33 SF	LOCKER ROOMS	50 SF
112	SHOWER	33 SF	LOCKER ROOMS	50 SF
113	SHOWER	33 SF	LOCKER ROOMS	50 SF
114	SHOWER	33 SF	LOCKER ROOMS	50 SF
115	SHOWER	33 SF	LOCKER ROOMS	50 SF
116	SHOWER	33 SF	LOCKER ROOMS	50 SF
117	ADA SHOWER	43 SF	LOCKER ROOMS	50 SF
118	ADA SHOWER	43 SF	LOCKER ROOMS	50 SF
		983 SF		

APPLICABLE CODES & STANDARDS

2018 ICC INTERNATIONAL CODE COUNCIL ALL REFERENCE STANDARDS
ICC INTERNATIONAL BUILDING CODE
ICC INTERNATIONAL PLUMBING CODE
ICC INTERNATIONAL MECHANICAL CODE
ICC INTERNATIONAL FIRE CODE
NATIONAL ELECTRIC CODE (NEC) 2017
2010 ADAAG AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
2009 ANSI A117.1 GUIDELINES FOR ACCESSIBLE & USABLE BUILDING & FACILITIES

GENERAL PROJECT INFORMATION

USER GROUP: GROUP B (303.1.2 SMALL ASSEMBLY SPACE)
CONSTRUCTION TYPE: V-B
AUTOMATIC SPRINKLER SYSTEM: NQ
GROSS BUILDING AREA: 1,240 SF

SPECIAL REQUIREMENTS (IBC CHAPTER 4)

SPECIAL REQUIREMENTS: NONE REQUIRED

GENERAL BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5)

MAXIMUM 40 FEET ABOVE GRADE PLANE ALLOWED. 17' 10" PROVIDED.
MAXIMUM 2 STORIES ABOVE GRADE PLANE ALLOWED. 1 STORY PROVIDED.
MAXIMUM 8,000 SQUARE FEET ALLOWED. REFER TO BUILDING SQUARE FOOTAGE LISTED ABOVE.

FIRE RESISTANCE RATINGS (IBC CHAPTER 6)

CONSTRUCTION TYPE: V-B

PRIMARY STRUCTURAL FRAME: 0 HOURS
BEARING WALLS (EXTERIOR AND INTERIOR): 0 HOURS
NON-BEARING WALLS AND PARTITIONS EXTERIOR: 0 HOURS
NON-BEARING WALLS AND PARTITIONS INTERIOR: 0 HOURS
FLOOR CONSTRUCTION: 0 HOURS
ROOF CONSTRUCTION: 0 HOURS

ALL COMPONENTS CANNOT BE LESS THAN THE FIRE RESISTANCE RATINGS REQUIRED BY OTHER SECTIONS OF CODE

INTERIOR FINISHES (IBC CHAPTER 8)

INTERIOR EXIT STAIRWAYS AND RAMP AND EXIT PASSAGEWAYS: A
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMP: B
ROOMS AND ENCLOSED SPACES: C

FIRE PROTECTION SYSTEMS (IBC CHAPTER 9)

PORTABLE FIRE EXTINGUISHERS

SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 10 AND INTERNATIONAL FIRE CODE. SEE PLAN FOR LOCATIONS AND TYPE.

FIRE ALARM AND DETECTION SYSTEM

MANUAL FIRE ALARM SYSTEM: NOT REQUIRED

MEANS OF EGRESS INFORMATION (IBC CHAPTER 10)

OCCUPANT LOAD

CALCULATED OCCUPANT LOADING
ACCESSORY STORAGE AND MEP ROOMS 300 SQUARE FOOT PER OCCUPANT
LOCKER ROOMS 50 SQUARE FOOT PER OCCUPANT
INDUSTRIAL 100 SQUARE FOOT PER OCCUPANT

REFER TO OCCUPANT LOAD SCHEDULE FOR TOTAL CALCULATED OCCUPANT LOAD.

MEANS OF EGRESS SIZING

CORRIDORS AND EGRESS COMPONENTS: 0.2' / PERSON / OCCUPANT LOAD.
MINIMUM CLEAR WIDTHS:
DOORS: 32" CLEAR
CORRIDORS: 36" CLEAR

KEYNOTE LEGEND

10.441 SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.

DEFERRED SUBMITTAL LIST

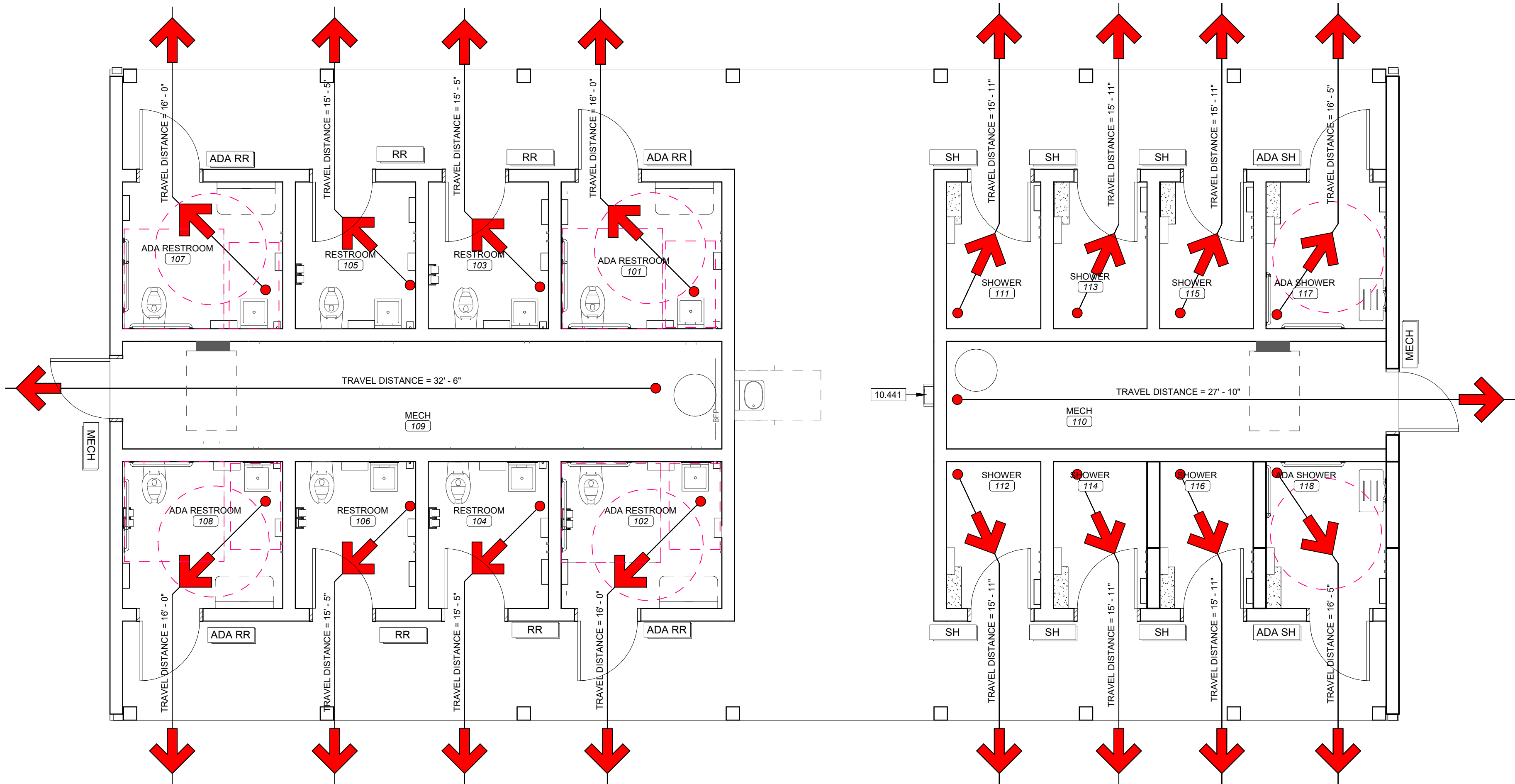
THE FOLLOWING LIST OF SUBMITTALS ARE SUBMITTALS THAT THE DESIGN TEAM RECOGNIZES REQUIRE SUBMISSION TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW THAT ARE NOT AVAILABLE BEFORE CONTRACTOR INVOLVEMENT AND/OR CREATION. THE FOLLOWING WILL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION DURING CONSTRUCTION FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION OF THE ASSOCIATED BUILDING ELEMENTS.

- PRE-ENGINEERED WOOD TRUSSES

REQUIRED SPECIAL INSPECTIONS AND TESTING

THE FOLLOWING LIST OF SPECIAL INSPECTIONS AND TESTING ARE THOSE REQUIRED BY THE INTERNATIONAL BUILDING CODE SECTION 1700 AND RELEVANT TO THE PROJECT. ALL ITEMS ON THIS LIST SHALL BE TEST AND/OR INSPECTED BY A THIRD-PARTY INSPECTIONS FIRM. THE FOLLOWING SHALL BE INSPECTED BY SAID FIRM, WITH REPORTS AND OBSERVATIONS DELIVERED TO OWNER, ARCHITECT, AND CONTRACTOR, AND ALL DEVIATIONS FROM REQUIREMENTS NOTED AND ADDRESSED.

- CONCRETE CONSTRUCTION (SEE ADDITIONAL NOTES BY STRUCTURAL ENGINEER)
- MASONRY CONSTRUCTION (SEE ADDITIONAL NOTES BY STRUCTURAL ENGINEER)
- WOOD CONSTRUCTION (SEE ADDITIONAL NOTES BY STRUCTURAL ENGINEER)
- SOILS (SEE ADDITIONAL NOTES BY CIVIL AND STRUCTURAL ENGINEERS AND IN GEOTECHNICAL REPORT)



CODE PLAN

SCALE 1/4" = 1'-0"

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE), OR 5% OF THE COST OF CONSTRUCTION MINIMUM IF CONTRACT IS IMPLIED, USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT, SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.

STATE OF MISSOURI

MIKE KEHOE,
GOVERNOR



JARED A. YOUNGLOVE, ARCHITECT
MO # A-2017019282

PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-2017019282
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025
THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

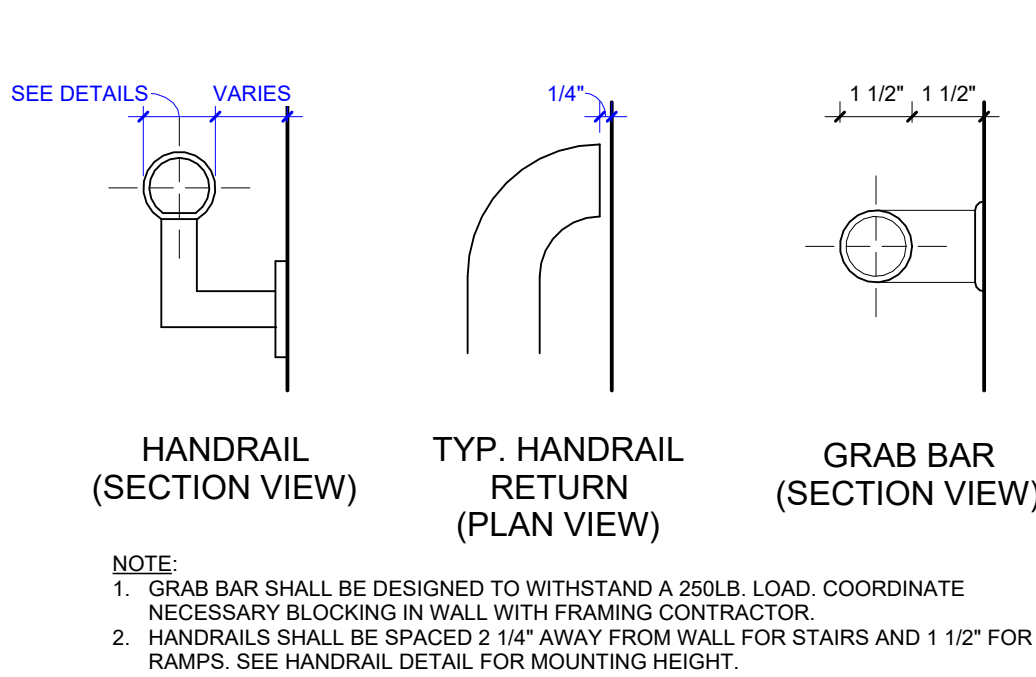
SHEET TITLE:
CODE PLAN

SHEET NUMBER:

G-103.A

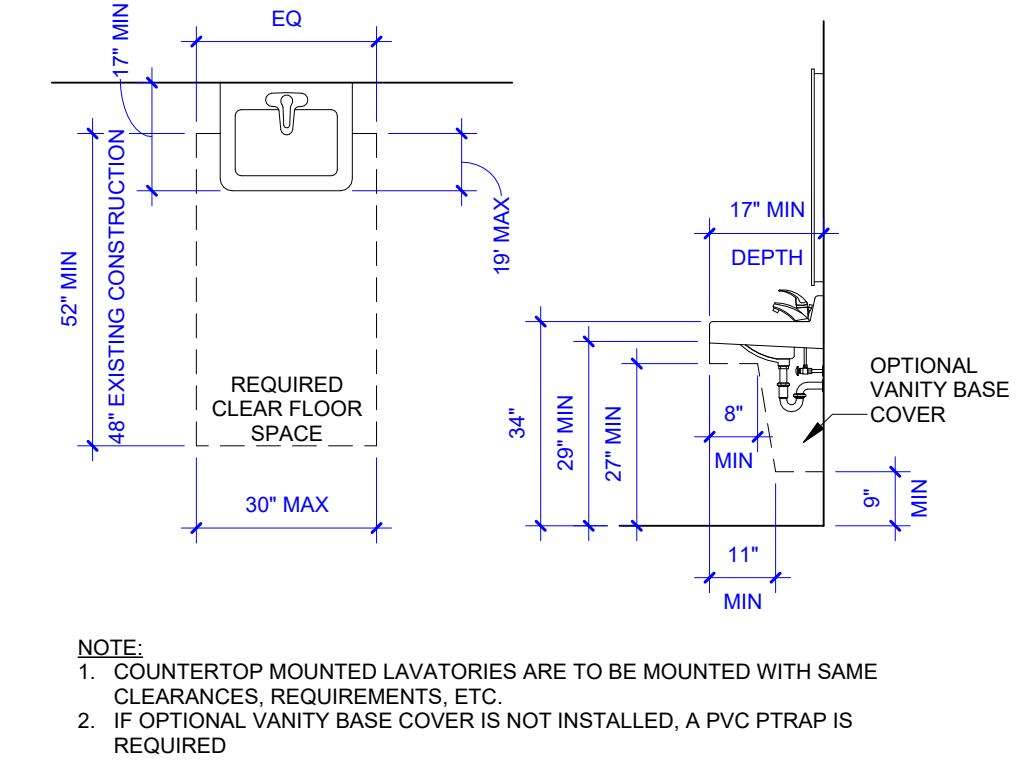
39 OF 71 SHEETS

10/24/2025



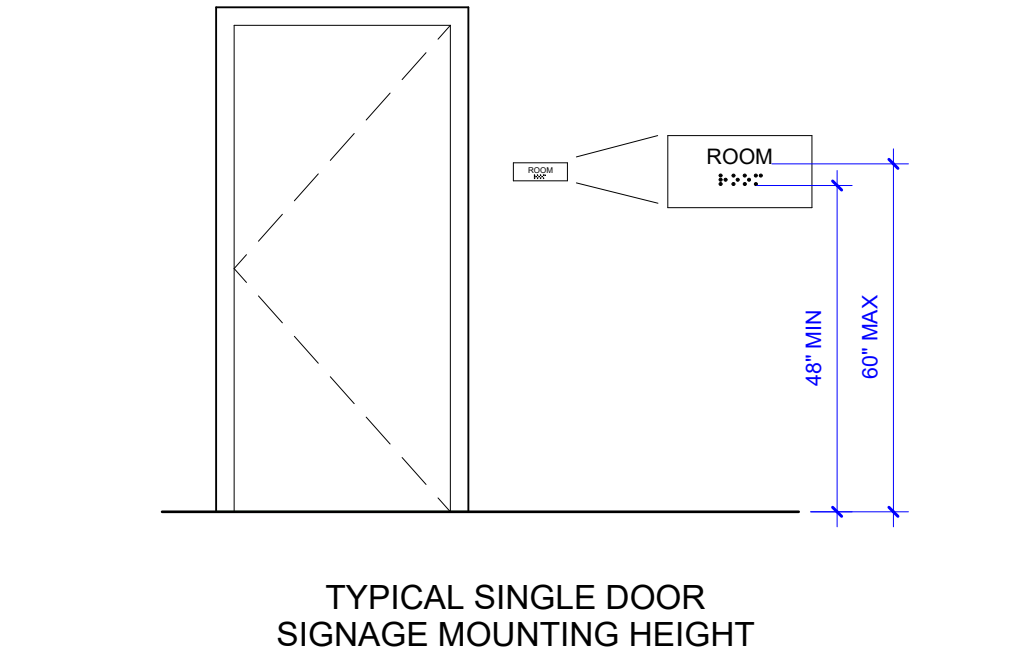
13 ACCESSIBLE GRAB BARS AND HANDRAILS

SCALE 3" = 1'-0"



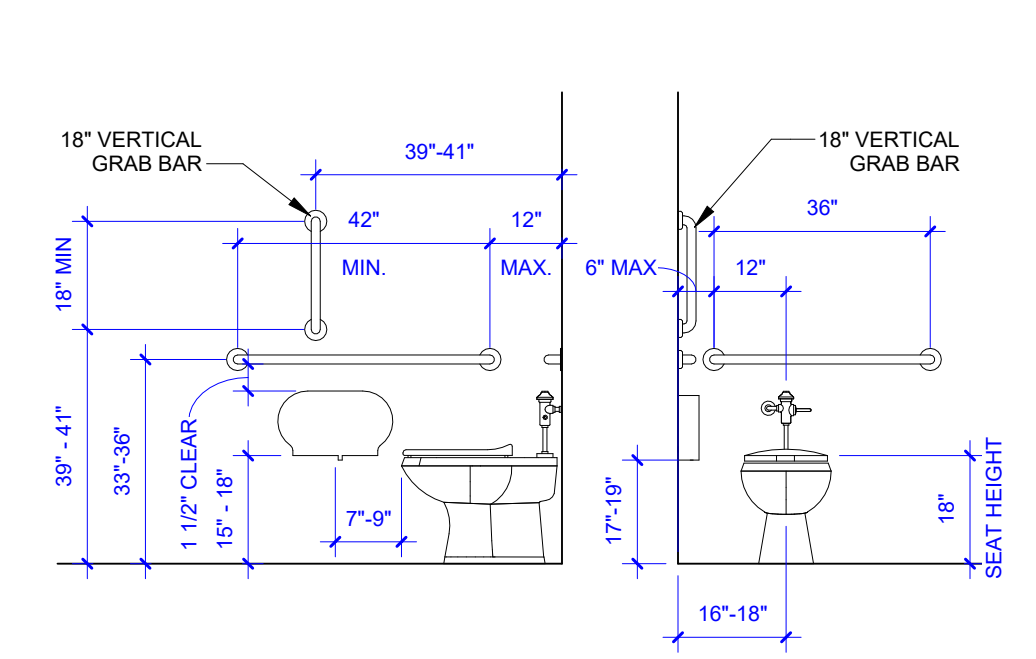
10 ACCESSIBLE LAVATORY.

SCALE 3/8" = 1'-0"



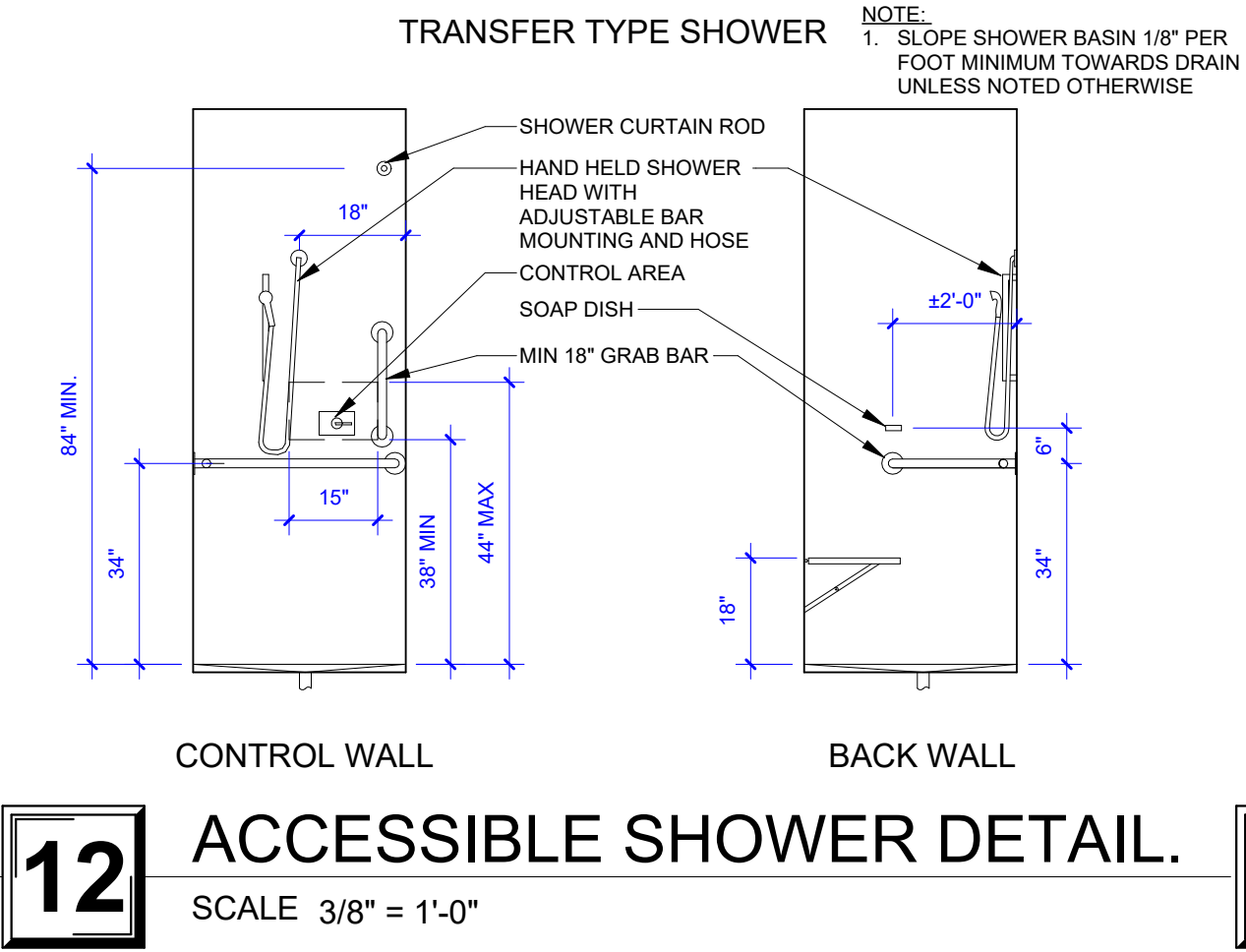
6 ACCESSIBLE TACTILE SIGNAGE MOUNTING AND LOCATION.

SCALE 3/8" = 1'-0"



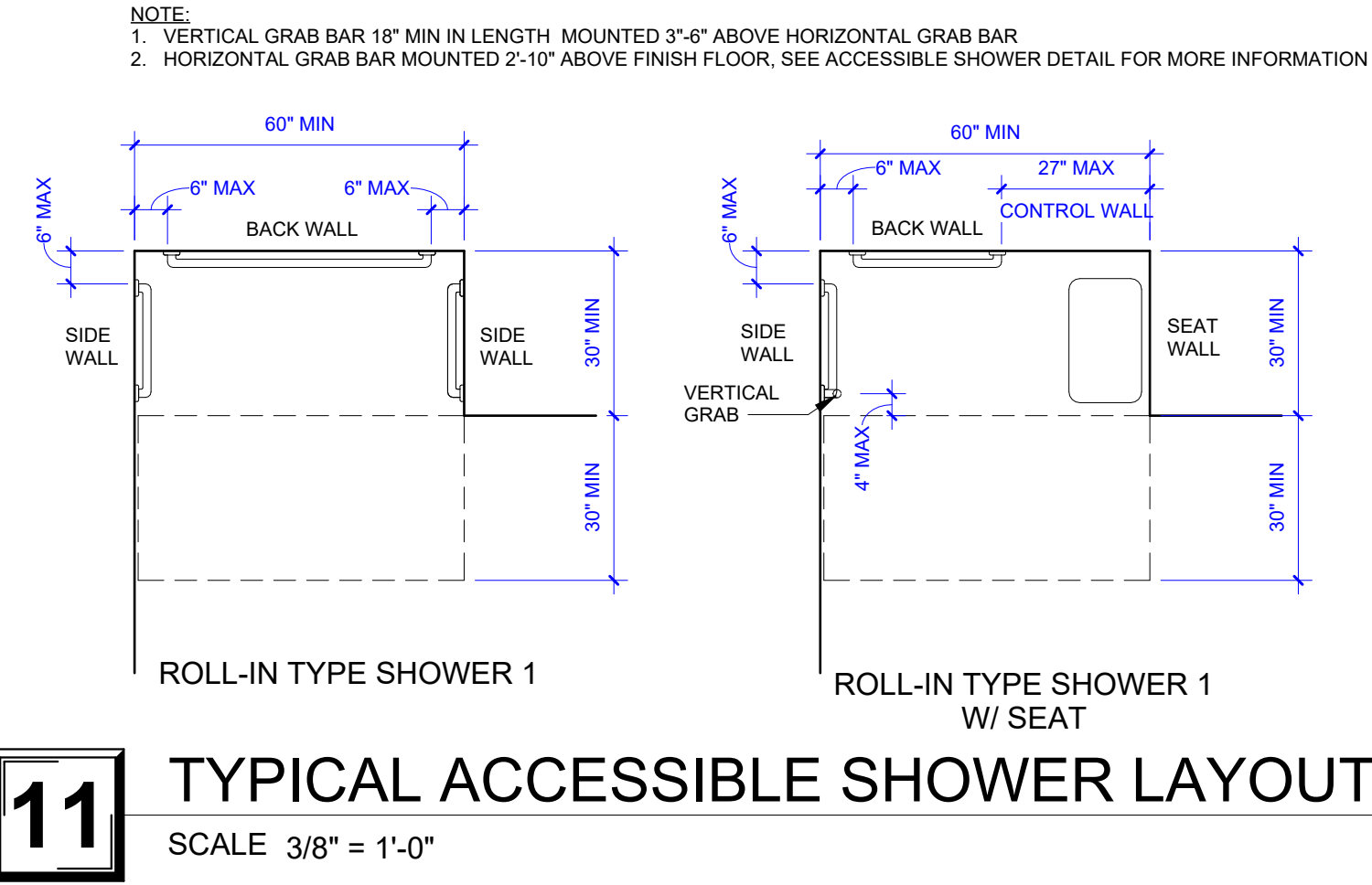
4 ACCESSIBLE WATER CLOSET.

SCALE 3/8" = 1'-0"



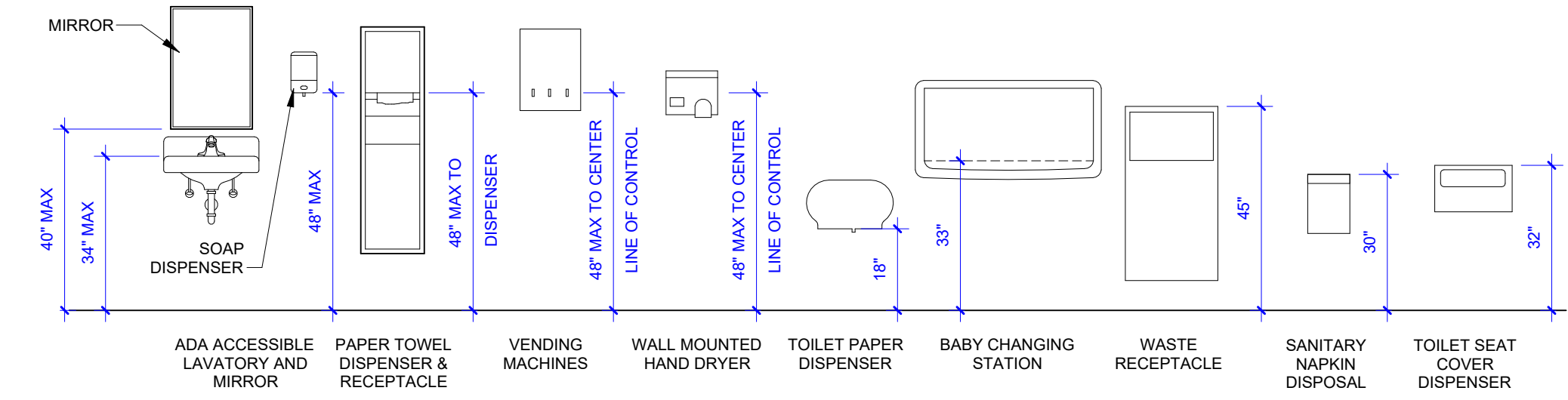
12 ACCESSIBLE SHOWER DETAIL.

SCALE 3/8" = 1'-0"



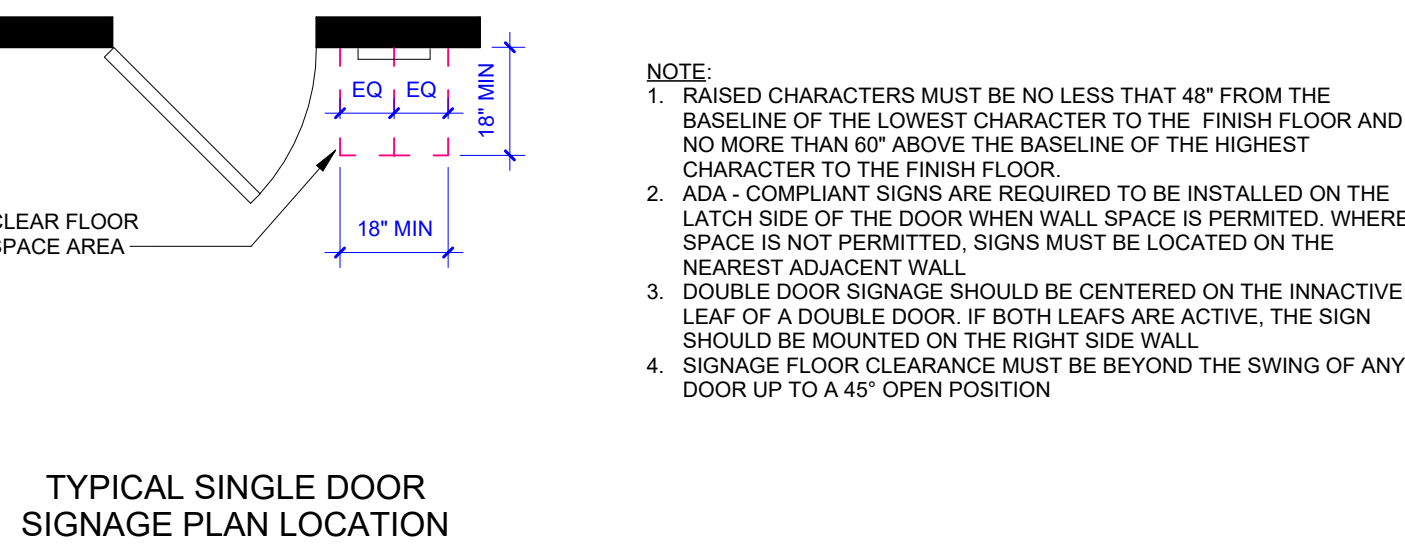
11 TYPICAL ACCESSIBLE SHOWER LAYOUT.

SCALE 3/8" = 1'-0"



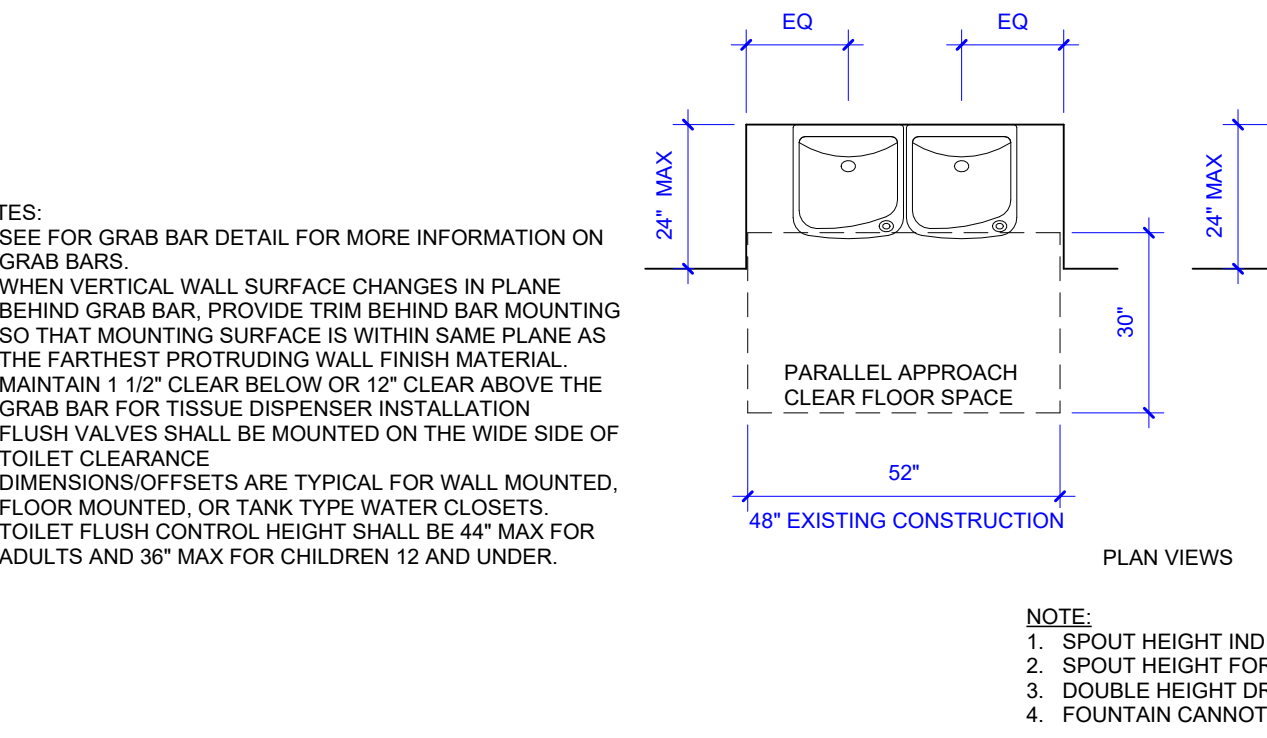
7 ACCESSIBLE RESTROOM ACCESSORIES.

SCALE 3/8" = 1'-0"



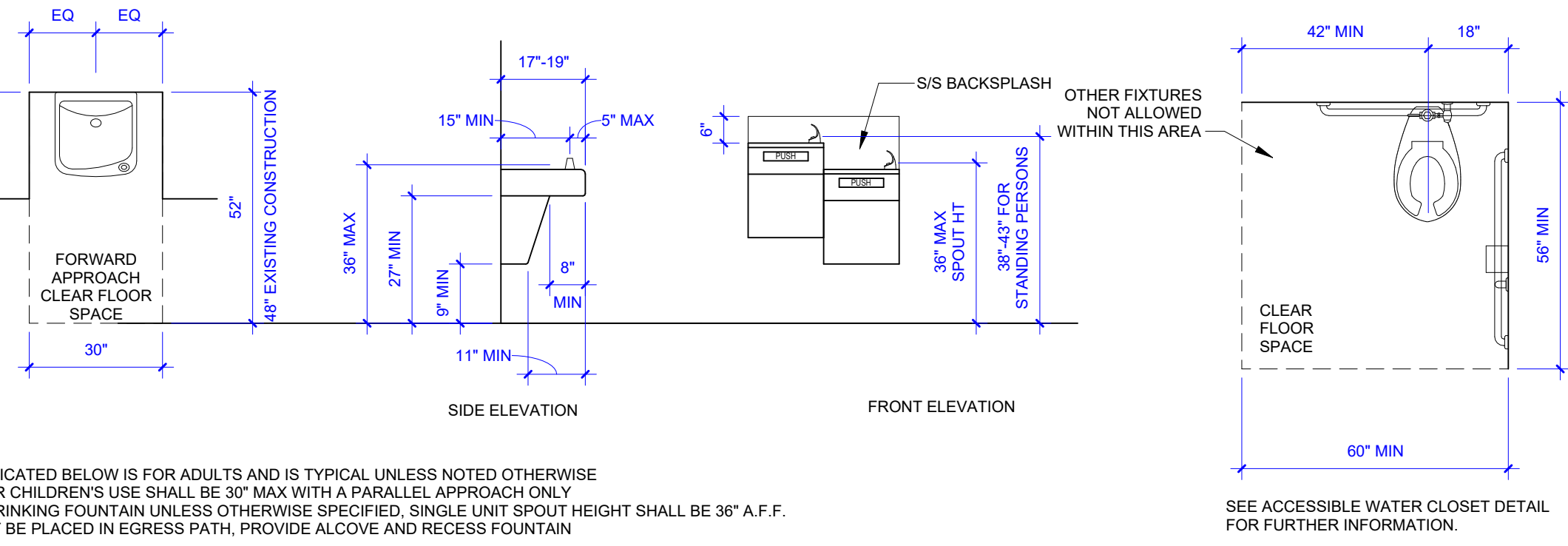
3 ACCESSIBLE DRINKING FOUNTAIN.

SCALE 3/8" = 1'-0"



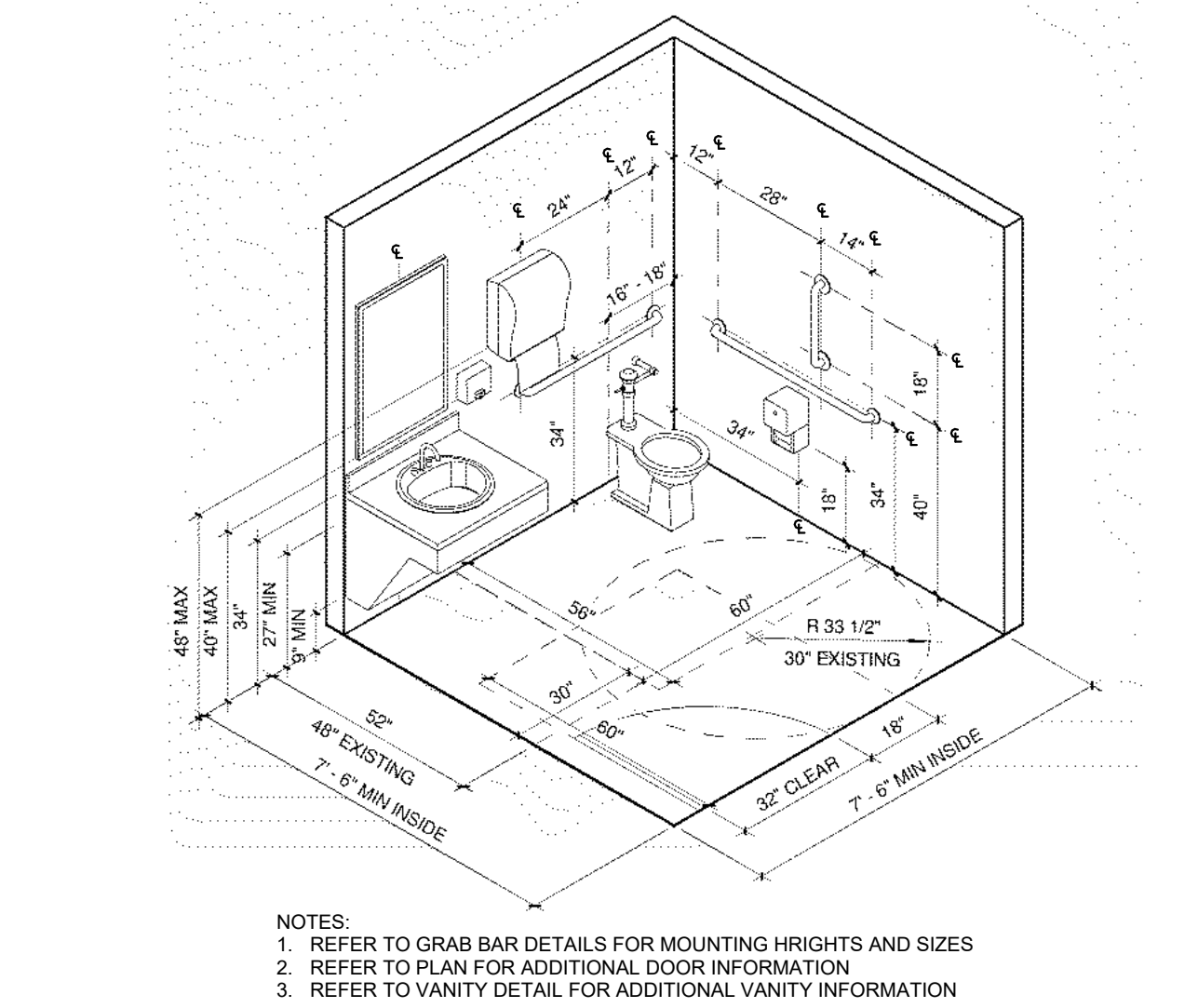
3 ACCESSIBLE DRINKING FOUNTAIN.

SCALE 3/8" = 1'-0"



2 CLEARANCE FOR WATER CLOSET

SCALE 3/8" = 1'-0"



1 ACCESSIBLE RESTROOM - SINGLE.

SCALE 12" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COPYRIGHT 2025
THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, L.L.C. AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

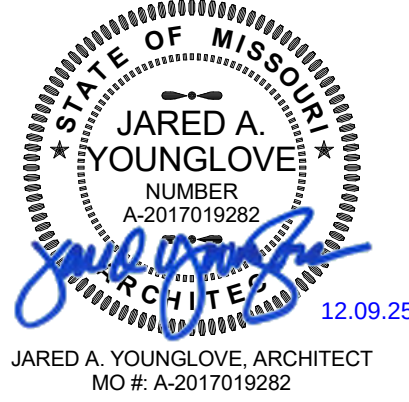
ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
ACCESSIBILITY
STANDARDS

SHEET NUMBER:

G-104.A
40 OF 71 SHEETS
10/24/2025



PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-2000000000
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC AND SHALL BE USED ONLY FOR THE
PROJECT REFERENCE BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

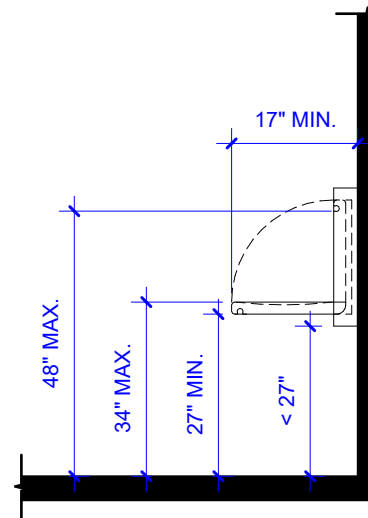
SHEET TITLE:
ACCESSIBILITY
STANDARDS

SHEET NUMBER:

G-105.A

41 OF 71 SHEETS

10/24/2025



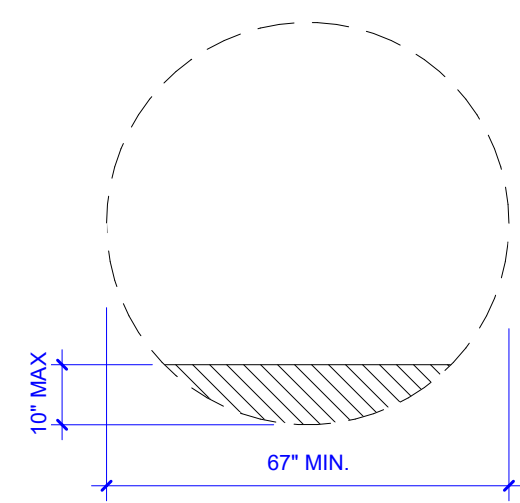
- NOTE:
1. WHEN A WALL-MOUNTED CHANGING STATION PROTRUDES MORE THAN 4" FROM THE FACE OF WALL, THE BOTTOM EDGE MUST BE LESS THAN 27" FROM FINISHED FLOOR.
 2. THE BOTTOM OF THE OPEN CHANGING PLATFORM NEEDS A MIN. OF 27" CLEARANCE FROM FINISHED FLOOR, AND A MIN. OF 17" CLEARANCE FROM THE WALL.
 3. THE TOP SURFACE OF THE OPEN CHANGING PLATFORM CAN BE A MAX. OF 34" ABOVE FINISHED FLOOR.
 4. IN THE CLOSED POSITION, THE HANDLE ON THE BABY CHANGING STATION CAN BE A MAX. OF 48" ABOVE FINISHED FLOOR.

- FOR ANY CLARITY ON THESE DIMENSIONS, PLEASE SEE ADA REACH CLEARANCE AND CLEARANCE OF PROTRUDING OBJECTS DIAGRAMS.

10 ACCESSIBLE BABY CHANGING STATION.

SCALE 3/8" = 1'-0"

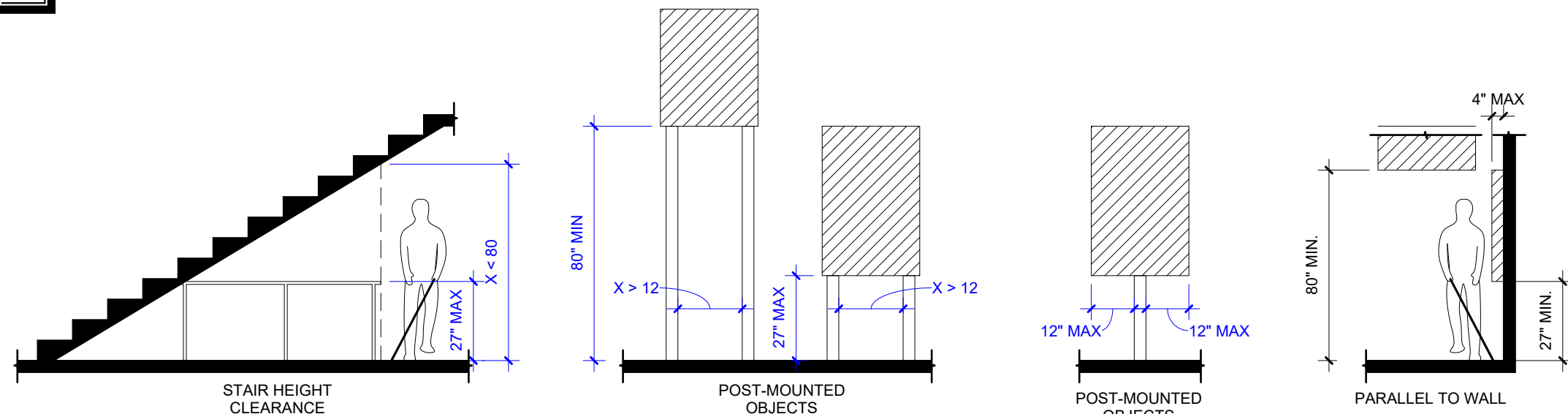
OVERLAP OF KNEE AND TOE CLEARANCE



NEW CONSTRUCTION

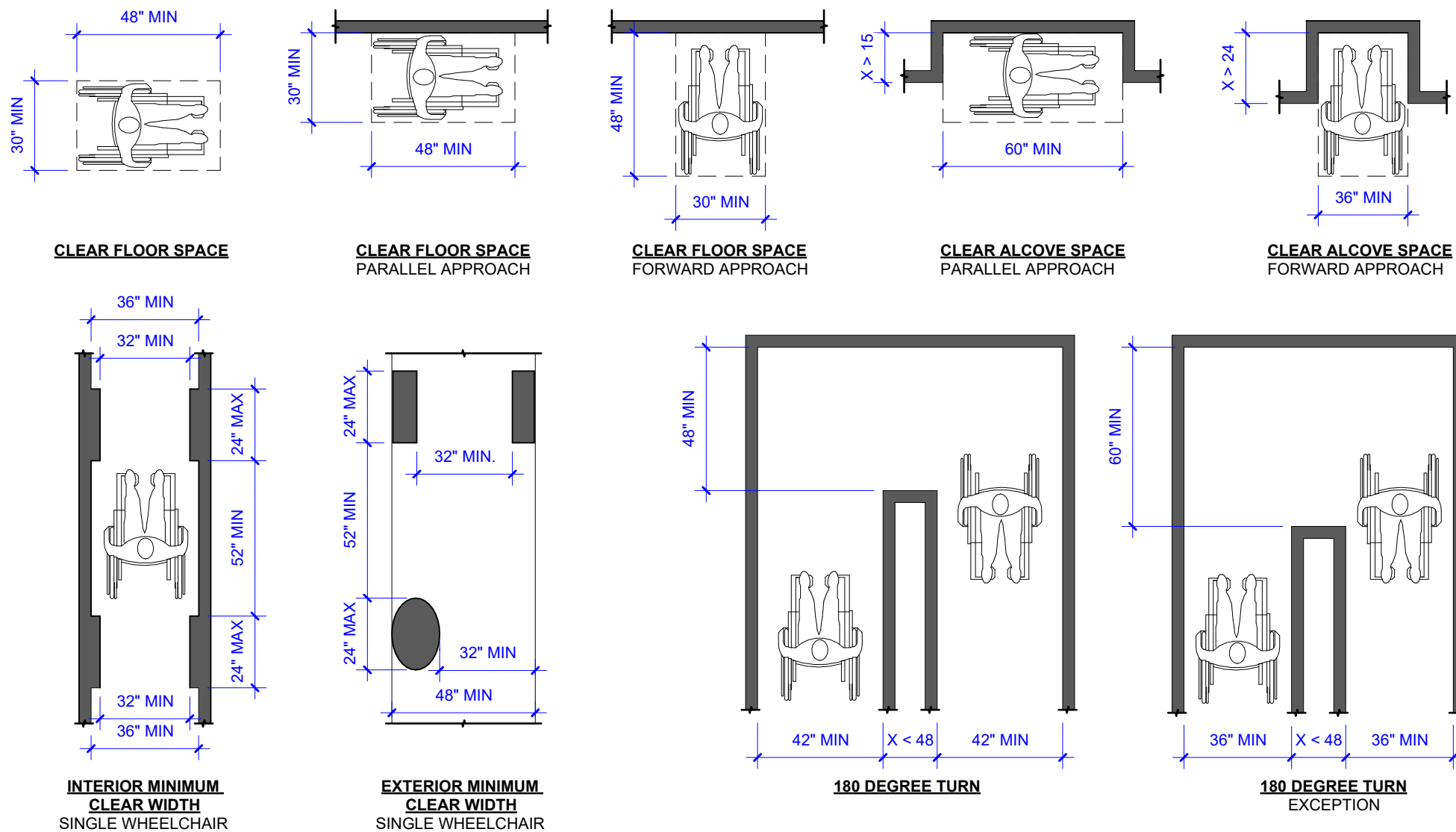
8 ACCESSIBLE TURN RADIUS.

SCALE 3/8" = 1'-0"



5 PROTRUDING OBJECT CLEARANCE.

SCALE 1/4" = 1'-0"

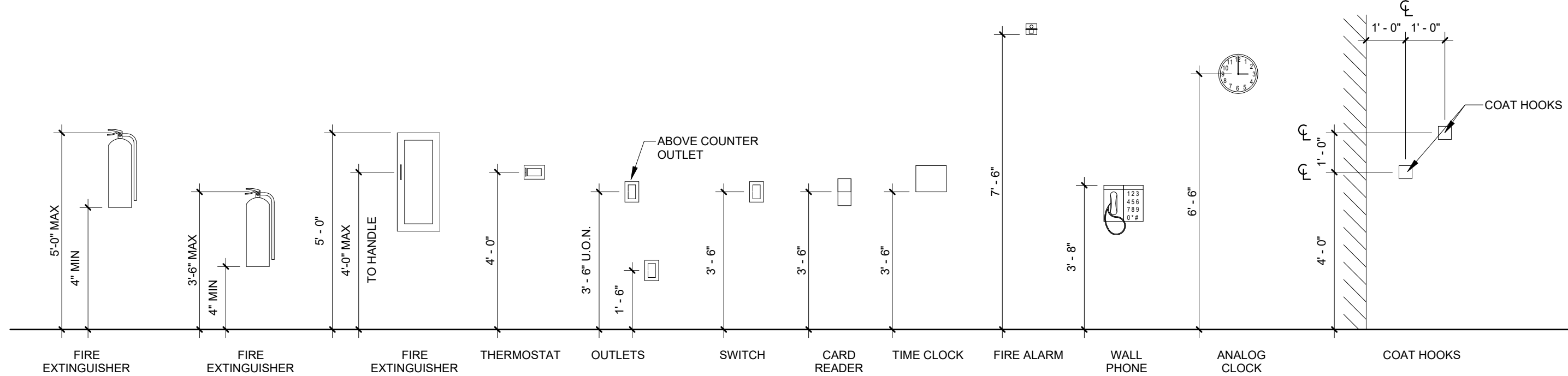


3 CLEAR FLOOR SPACE & MANEUVERING ACCESS.

SCALE 1/4" = 1'-0"

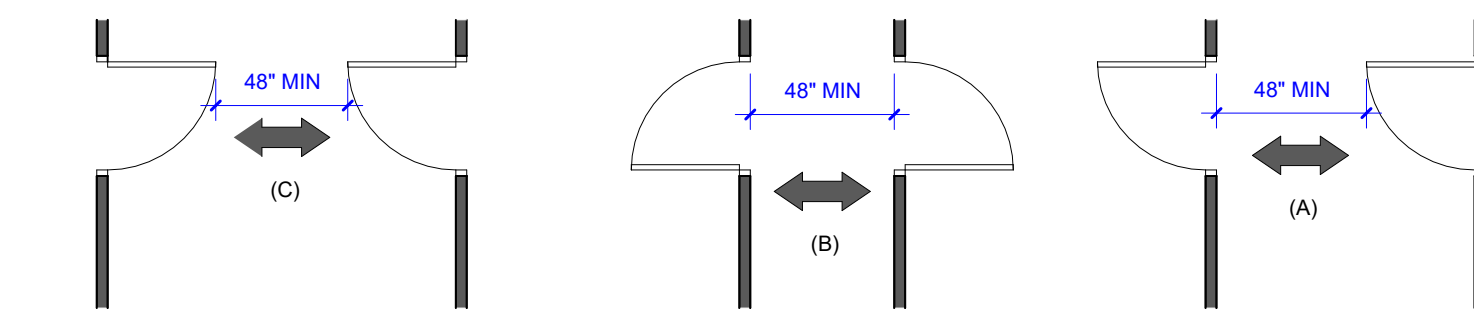
6 ACCESSIBLE ACCESSORIES TYPICAL.

SCALE 3/8" = 1'-0"



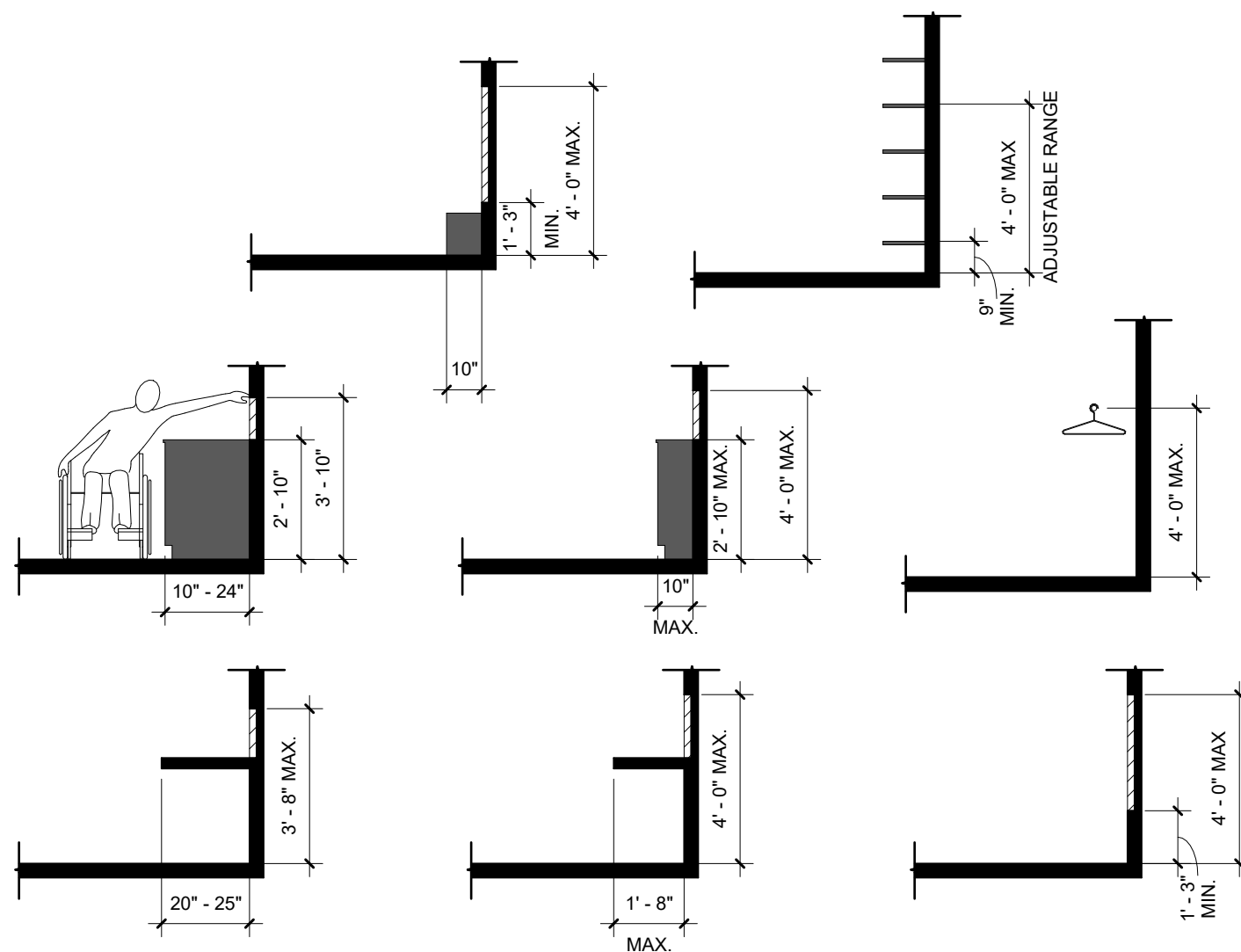
6 ACCESSIBLE ACCESSORIES TYPICAL.

SCALE 3/8" = 1'-0"



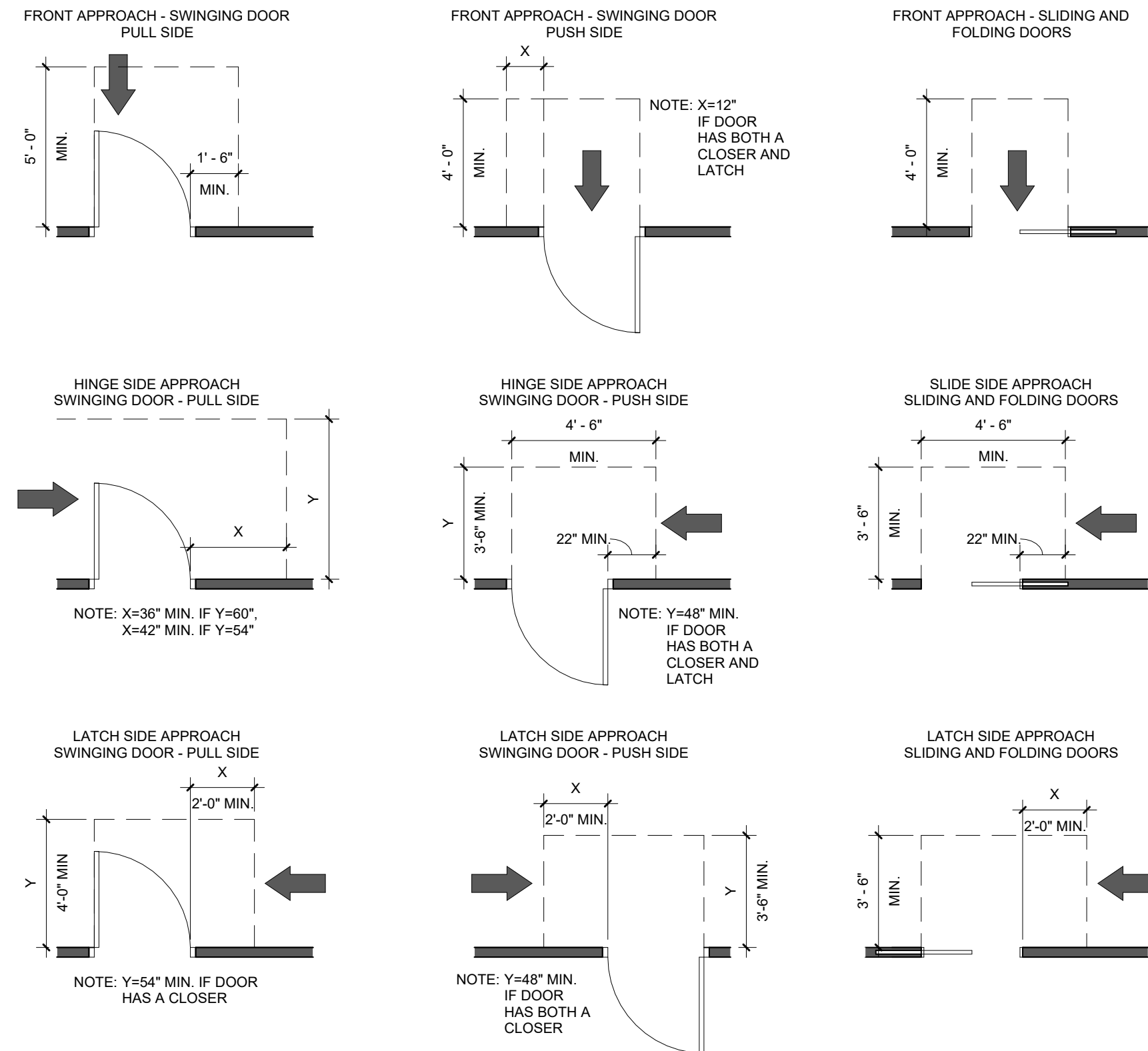
4 CORRIDOR DOOR CLEARANCES.

SCALE 3/16" = 1'-0"



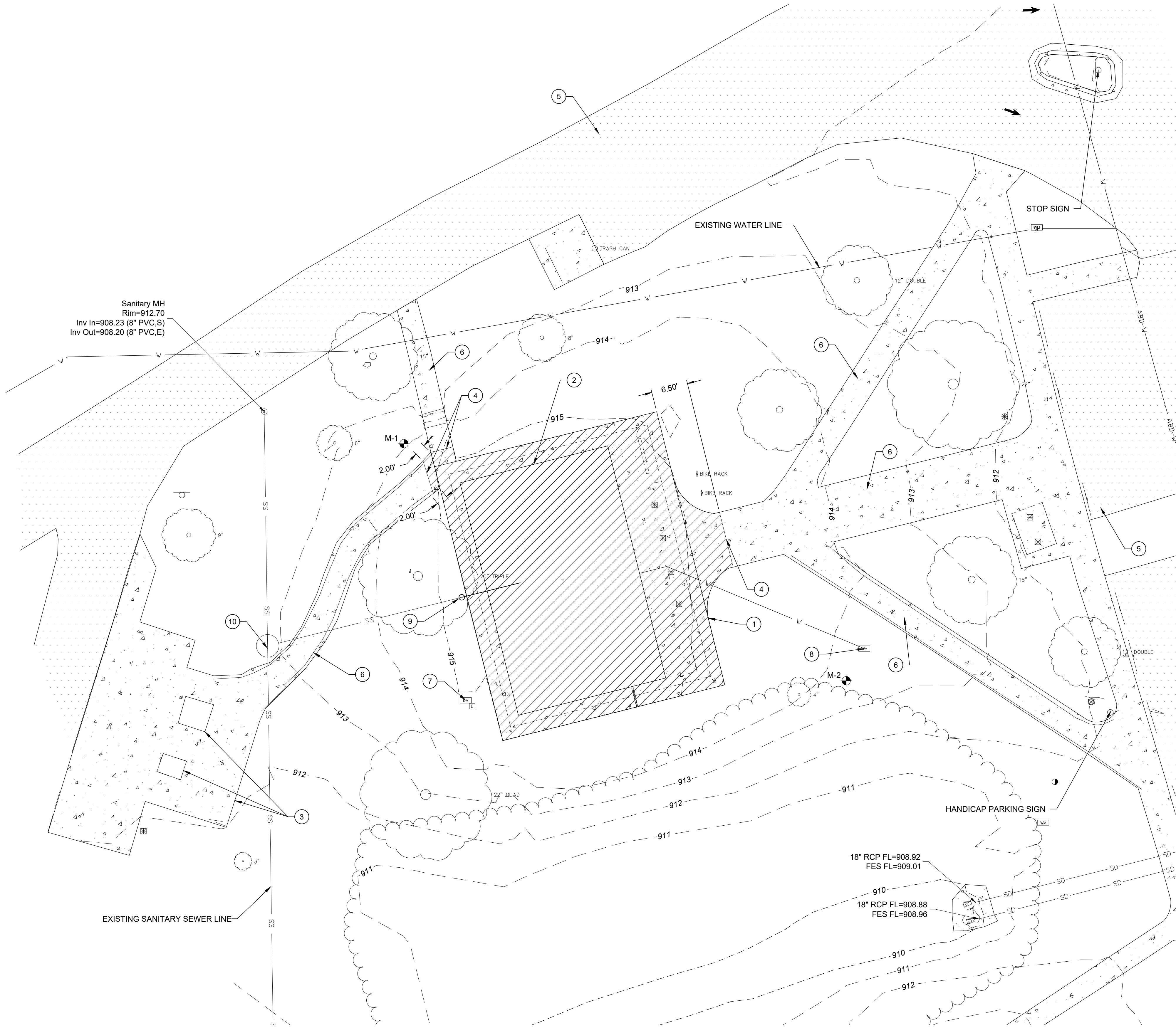
2 ACCESSIBLE REACH CLEARANCE.

SCALE 1/4" = 1'-0"



1 ACCESSIBLE APPROACH DIAGRAM.

SCALE 1/4" = 1'-0"



1 SHOWER HOUSE RESTROOM DEMOLITION PLAN LOOP 1
SCALE: 1" = 10'

- NOTE:**
THE CONTRACTOR SHALL NOTIFY PARK SUPERINTENDENT NO LESS THAN TWO (2) WEEKS PRIOR TO COMMENCING ANY DEMOLITION ACTIVITIES WITHIN THE PARK. THIS ADVANCE NOTICE WILL ALLOW PARK PERSONNEL SUFFICIENT TIME TO:
- IDENTIFY AND MARK ANY INTERNAL UTILITIES THAT MAY BE AFFECTED.
 - COMPLETE ALL NECESSARY DOCUMENTATION AND APPROVALS REQUIRED FOR DEMOLITION.
 - REMOVE ANY EXISTING MATERIALS DEEMED VALUABLE FOR FUTURE PARK USE.
- PARK STAFF RESERVE THE RIGHT TO SALVAGE AND REMOVE MATERIALS DURING THIS TWO WEEK PERIOD.
- DEMOLITION AND NEW CONSTRUCTION OF THIS FACILITY TO BE COORDINATED WITH CONSTRUCTION OF NEW SHOWER HOUSE IN LOOP 4. DEMOLITION AND CONSTRUCTION NOT TO COMMENCE UNTIL AFTER SHOWER HOUSE/RESTROOM IN LOOP 4 IS COMPLETED AND APPROVED FOR SERVICE.
- DEMOLITION NOTES:**
- REMOVE EXISTING SIDEWALK.
 - EXISTING SHOWER HOUSE, RESTROOMS, ASSOCIATED FIXTURES, PLUMBING, ELECTRICAL AND MECHANICAL EQUIPMENT TO BE REMOVED.
 - EXISTING STRUCTURE AND CONCRETE PAVEMENT TO REMAIN.
 - SAWCUT EXISTING CONCRETE TO ALLOW FOR DEMOLITION OF BUILDING SIDEWALK. DO NOT DISTURB EXISTING HANDRAIL.
 - EXISTING ASPHALT SURFACE TO REMAIN.
 - EXISTING CONCRETE SIDEWALK TO REMAIN.
 - EXISTING TRANSFORMER FEEDS EXISTING WOOD SHACK, GUARD SHACK, AND CAMPHOUSE. PRIOR TO DEMOLITION, COORDINATE WITH UTILITY TO DISCONNECT THE WIRE FROM THE TRANSFORMER TO THE SHOWER HOUSE ONLY AND REMOVE ASSOCIATED CABLES. IT IS THE CONTRACTORS RESPONSIBILITY TO DISCONNECT AND DISPOSE OF ELECTRICAL MATERIALS. EXISTING TRANSFORMER TO REMAIN.
 - SHUT OFF EXISTING WATER SERVICE LINE. CUT EXISTING WATER LINE IN AREA OF DEMOLITION TO ALLOW RECONNECTION OF NEW WATER SERVICE LINE. SEE DETAIL SHEET C-105.A.
 - LOCATE EXISTING SEWER SERVICE LINE. CUT AND CAP IN DEMOLITION AREA TO ALLOW RECONNECTION WITH NEW SEWER SERVICE LINE FROM NEW SHOWER HOUSE/RESTROOMS.
 - EXISTING MANHOLE.
- GENERAL DEMOLITION NOTES**
- A. THESE DEMOLITION DRAWINGS DEFINE THE PROJECT BOUNDARY AND SCOPE OF DEMOLITION WORK. WHERE INDIVIDUAL ITEMS ARE SHOWN ON DEMOLITION PLANS AS DASHED, OR WHERE "LIMITS OF ELECTRICAL DEMOLITION" BOUNDARY IS IDENTIFIED AND/OR SHOWN AS HATCHED AREA, ELECTRICAL EQUIPMENT, DEVICES, FIXTURES, WIRING, RACEWAY, AND DATA/COMMUNICATIONS SYSTEMS SHALL BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. ITEMS WITHIN "LIMITS OF ELECTRICAL DEMOLITION" THAT SERVE ADJACENT AREAS SHALL REMAIN, RE-SUPPORT ALL RACEWAY AND CABLING ASSOCIATED WITH THESE EXISTING TO REMAIN ITEMS THAT PASS THROUGH THE DEMOLITION BOUNDARY.
- B. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THESE CONTRACT DOCUMENTS, AND FAMILIARIZE THEMSELVES WITH THE WORK PRIOR TO BIDDING AND COMMENCING THE SCOPE OF WORK. THESE CONTRACT DOCUMENTS DO NOT ACCOUNT FOR ALL ITEMS, NOR DO THEY GUARANTEE THE ACCURACY OF EXISTING CONDITIONS. THESE DOCUMENTS ARE PROVIDED AS AN AID IN DEFINING THE DEMOLITION SCOPE OF WORK FOR THE PROJECT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING CONDITIONS AND INCLUDE IN THEIR BID ANY NECESSARY ADJUSTMENTS TO ACCOUNT FOR ACTUAL FIELD CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED AFTER BIDS ARE SUBMITTED FOR CHANGES WHICH OCCUR AS A RESULT OF EXISTING CONDITIONS.
- C. THESE DEMOLITION DRAWINGS DO NOT IDENTIFY ALL ITEMS TO BE REMOVED, NOR ARE ALL COMPONENTS OF AN ELECTRICAL ITEM IDENTIFIED WHERE INDICATED AS REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ITEMS WHICH MUST BE REMOVED TO FACILITATE THE EXECUTION OF NEW WORK UNDER THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DOCUMENTS WITHIN THE PROJECT MANUAL (ARCHITECTURAL, MECHANICAL, ETC.) FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS. WHERE THE CONTRACTOR IS UNCLEAR ABOUT THE SCOPE OF DEMOLITION OF A SPECIFIC ELECTRICAL ITEM, REFER ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO BID FOR CLARIFICATION.
- D. PHASING OF ELECTRICAL DEMOLITION SHALL FOLLOW THAT OF THE GENERAL CONTRACTOR. COORDINATE REMOVAL OF ELECTRICAL WORK WITH WORK OF OTHER TRADES, OTHER CONSTRUCTION ACTIVITIES, AND THE REQUIREMENTS OF THE OWNER. ELECTRICAL SYSTEMS SUPPORTING AREAS OF BUILDING NOT IN CURRENT PHASE OF CONSTRUCTION SHALL BE MAINTAINED FULLY OPERATIONAL. COORDINATE WITH WORK OF OTHER TRADES TO PROVIDE TEMPORARY POWER AND LIGHTING IN AREAS OF CURRENT AND FUTURE PHASES AS REQUIRED TO FACILITATE WORK.
- E. WHERE DEMOLITION WORK WILL INTERRUPT OTHER AREAS OF THE FACILITY THAT ARE TO REMAIN IN OPERATION, PROVISIONS SHALL BE INSTALLED TO MAINTAIN THOSE AREAS IN COMPLETE OPERATION. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED. PROVIDE ALL NECESSARY ACCOMMODATIONS AHEAD OF TIME TO LIMIT INTERRUPTION OF SYSTEM TO THE TIME NEEDED TO DISCONNECT AND IMMEDIATELY RECONNECT THE SYSTEM TO RESTORE TO FULL OPERATION. ESSENTIAL SERVICES DEEMED BY THE OWNER MAY REQUIRE PREMIUM TIME AND SHALL BE INCLUDED IN CONTRACTOR'S BID. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO EQUIPMENT, DEVICES, AND LUMINAIRES THAT SHALL NOT BE REMOVED BY THIS PROJECT. CONTRACTOR SHALL MARK AND IDENTIFY EXISTING ELECTRICAL SYSTEM COMPONENTS WHICH SHALL NOT BE REMOVED, OR ITEMS WHICH MUST BE MAINTAINED AND PROTECTED FOR ANY DURING OF CONSTRUCTION BEYOND EARLY DEMOTION EFFORTS TO REDUCE POSSIBILITY OF ACCIDENTAL INTERRUPTION ON SYSTEM. WHERE EXISTING DEVICE OR JUNCTION BOXES MUST REMAIN IN EXISTING WALLS OR CEILINGS (SUCH AS FOR CIRCUITS THAT MUST BE MAINTAINED TO OTHER AREAS), THEN THEY SHALL BE FITTED WITH BLANK COVER PLATES. WHERE EXISTING TO REMAIN ELECTRICAL ITEMS REQUIRE ACCESS, AND IF REQUIRED TO FACILITATE NEW WORK, CONTRACTOR SHALL RELOCATE ITEM TO AN ACCESSIBLE LOCATION.
- F. WHERE DEMOLITION OF WALL IS INDICATED ON THESE DEMOLITION PLANS, OR ON ARCHITECTURAL DRAWINGS, ALL ELECTRICAL SYSTEM COMPONENTS WITHIN WALL SHALL BE REMOVED IN THEIR ENTIRETY WITH SUPPORTING RACEWAY AND CIRCUITS REMOVED BACK TO THEIR SOURCE. CONTRACTOR SHALL DISCONNECT ALL ELECTRICAL SYSTEM COMPONENTS TO ALLOW WALLS TO BE DEMOLISHED BY OTHERS. ALL ELECTRICAL SYSTEM COMPONENTS THAT ARE EXPOSED AND SURFACE MOUNTED, AND NO LONGER ACTIVE, SHALL BE REMOVED.
- G. WHERE WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING SYSTEMS, STRUCTURE, AND ANY ITEMS WHICH ARE TO REMAIN. IF EXISTING TO REMAIN ELECTRICAL SYSTEM COMPONENTS ARE DAMAGED THROUGH THE COURSE OF WORK, CONTRACTOR IS RESPONSIBLE TO PROVIDE NEW PRODUCTS OF EQUAL TYPE, QUANTITY, CAPACITY, AND FUNCTIONALITY. IF HAZARDOUS MATERIAL (E.G. ASBESTOS, PCB'S, ETC.) ARE ENCOUNTERED AT ANY TIME DURING CONSTRUCTION IN THE SCOPE OF WORK, STOP WORK IMMEDIATELY AND CONTACT THE ARCHITECT, ENGINEER, OR OWNER.
- H. WHERE ELECTRICAL SYSTEM ITEMS TO BE DEMOLISHED RESIDE ON A HOUSEKEEPING PAD, CONTRACTOR SHALL REMOVE PAD IN ITS ENTIRETY AND FLOOR SHALL BE PATCHED SO THAT FINISH MATCHES ADJACENCIES.
- I. WHERE DISTRIBUTION OR BRANCH CIRCUIT EQUIPMENT (PANELBOARDS, SWITCHBOARDS, ETC.) IS TO BE REMOVED, THEN ALL CIRCUITS WHICH FEED ITEMS TO REMAIN SHALL BE RECONNECTED TO NEW DISTRIBUTION OR BRANCH CIRCUIT EQUIPMENT. REFER ALL QUESTIONS TO THE ARCHITECT/ENGINEER FOR CLARIFICATION.
- J. EXISTING PANEL DIRECTORIES SHALL BE UPDATED TO ACCURATELY REFLECT CONDITIONS AFTER WORK IS COMPLETE. UNUSED CIRCUIT BREAKERS SHALL BE LABELED AS "SPARE."
- K. WHERE OWNER'S STANDARD INCLUDES LABELING OF ELECTRICAL DEVICE COVERPLATES, ALL UNLABELED ELECTRICAL DEVICES OR DEVICES WITH SOURCE BRANCH CIRCUIT MODIFIED DURING CONSTRUCTION SHALL BE CIRCUIT TRACED AS REQUIRED FOR NEW/UPDATED LABEL TO BE PROVIDED.
- L. ELECTRICAL FIXTURES AND EQUIPMENT THAT ARE INDICATED TO BE RE-USED AND RE-INSTALLED SHALL BE CAREFULLY REMOVED AS NOT TO DAMAGE EQUIPMENT OR FIXTURE AND PROTECTED FROM DAMAGE UNTIL READY FOR RE-INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT COST OF ANY EQUIPMENT OR FIXTURES THAT BECOME DAMAGED PRIOR TO RE-INSTALLATION.
- M. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL INFRASTRUCTURE THAT IS TO REMAIN. THIS INCLUDES BUT IS NOT LIMITED TO PARK ROADS, SIDEWALKS, RAILING AND UTILITY SYSTEMS.

LEGEND

BORE HOLE - SEE SPECIFICATIONS FOR GEOTECH REPORT AND BORING LOG

0' 5' 10' 20'
SCALE IN FEET

MISSOURI ONE CALL SYSTEM
1-800-DIG-RITE or 811
www.motcall.com

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025

KERRY GAIL SCOTT
REGISTERED PROFESSIONAL ENGINEER
NUMBER E-24567

550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: LOCATION MAP

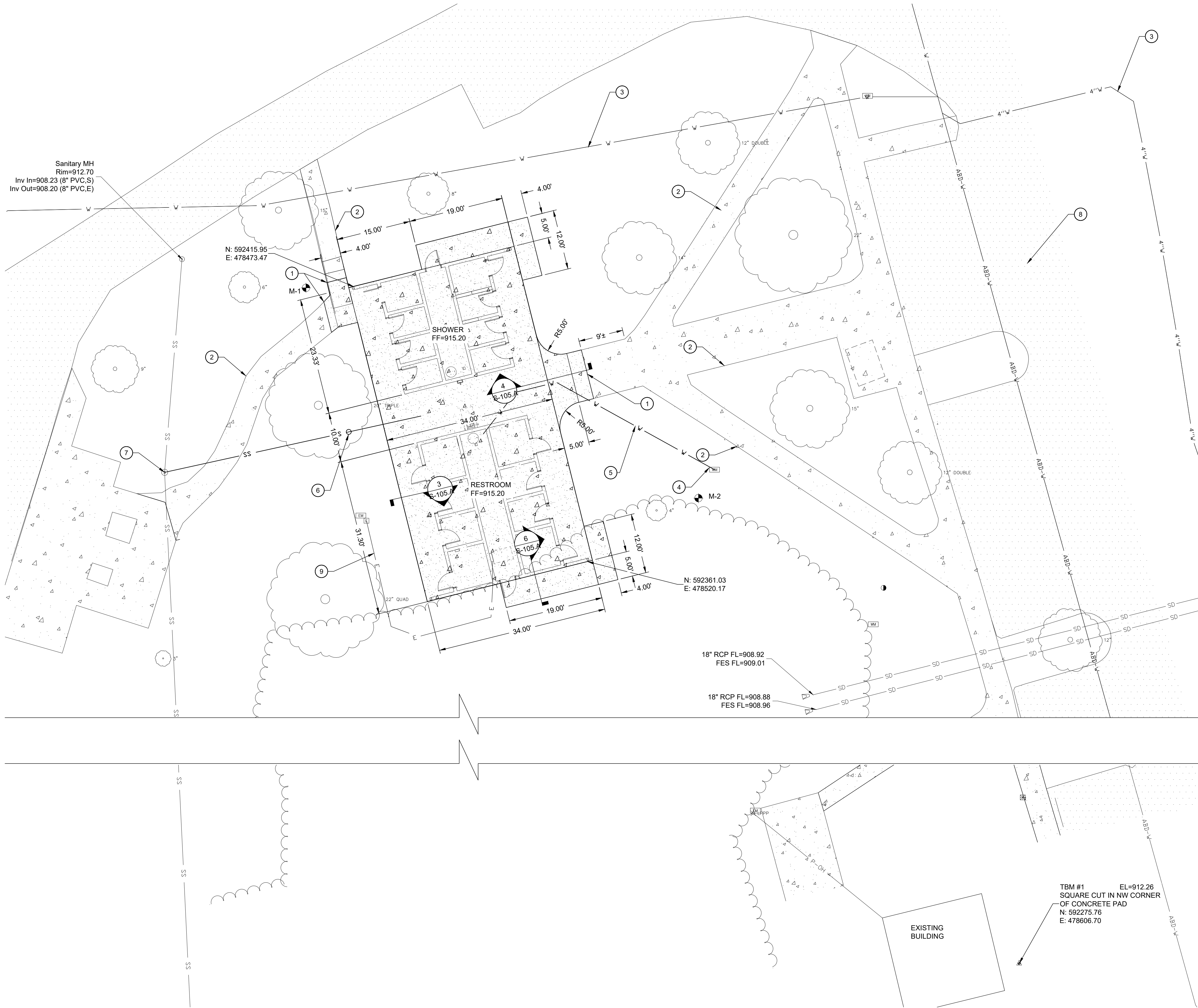
CAD DWG FILE: C-101.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

DEMOLITION PLAN
LOOP #1

SHEET NUMBER:

C-101.A



- NOTES:
1. SAWCUT EXISTING CONCRETE AND MATCH EXISTING GRADE WITH NEW CONCRETE.
 2. EXISTING CONCRETE SIDEWALK.
 3. EXISTING WATER LINE.
 4. LOCATE EXISTING WATER LINE SERVICING THE EXISTING BUILDING. CONNECT NEW WATER SERVICE LINE. ADD TEE AND VALVES FOR WATER DRAIN. SEE DETAIL SHEET C-105.A
 5. VERIFY WATER SERVICE LOCATION WITH PARK SUPERINTENDENT AND CONNECT NEW WATER LINE TO EXISTING WATER SERVICE LINE.
 6. CONNECT EXISTING SANITARY SEWER LINE TO NEW SERVICE LINE FROM NEW BUILDING. INSTALL CLEANOUT 3' OUTSIDE OF NEW SIDEWALK. SEE SHEET C-105.A FOR CLEANOUT DETAIL.
 7. EXISTING SEWER MANHOLE.
 8. EXISTING ASPHALT SURFACE.
 9. ELECTRIC SERVICE, SEE ES002.

LEGEND

BORE HOLE - SEE SPECIFICATIONS FOR GEOTECH REPORT AND BORING LOG

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE: C-102.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

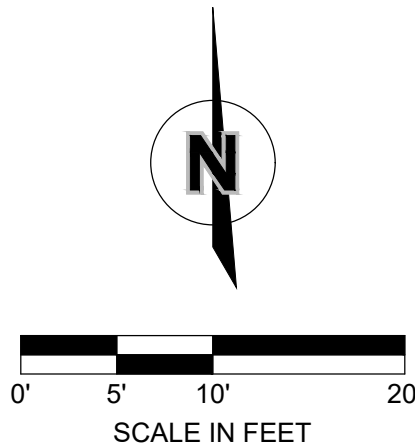
SHEET TITLE:

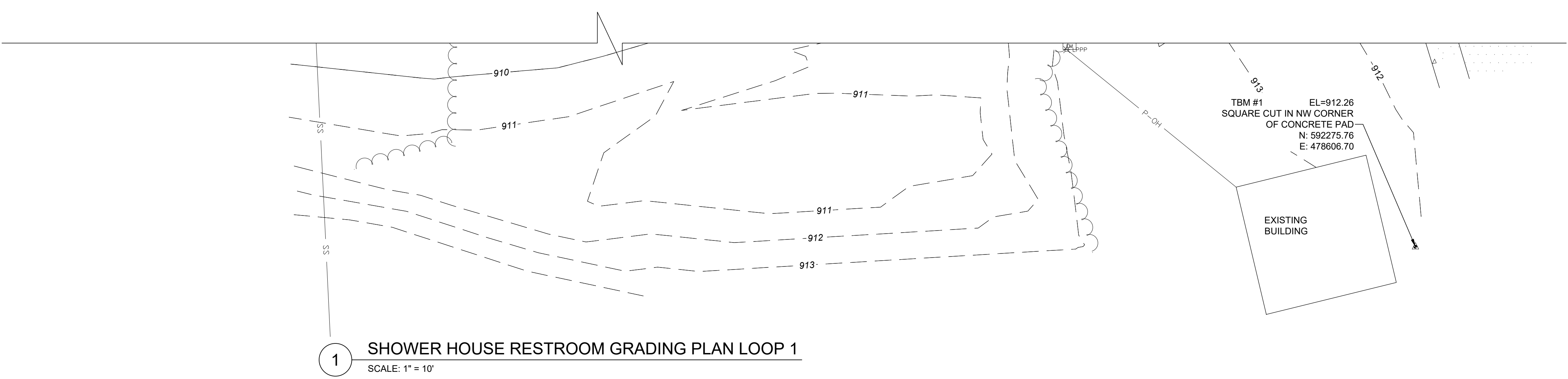
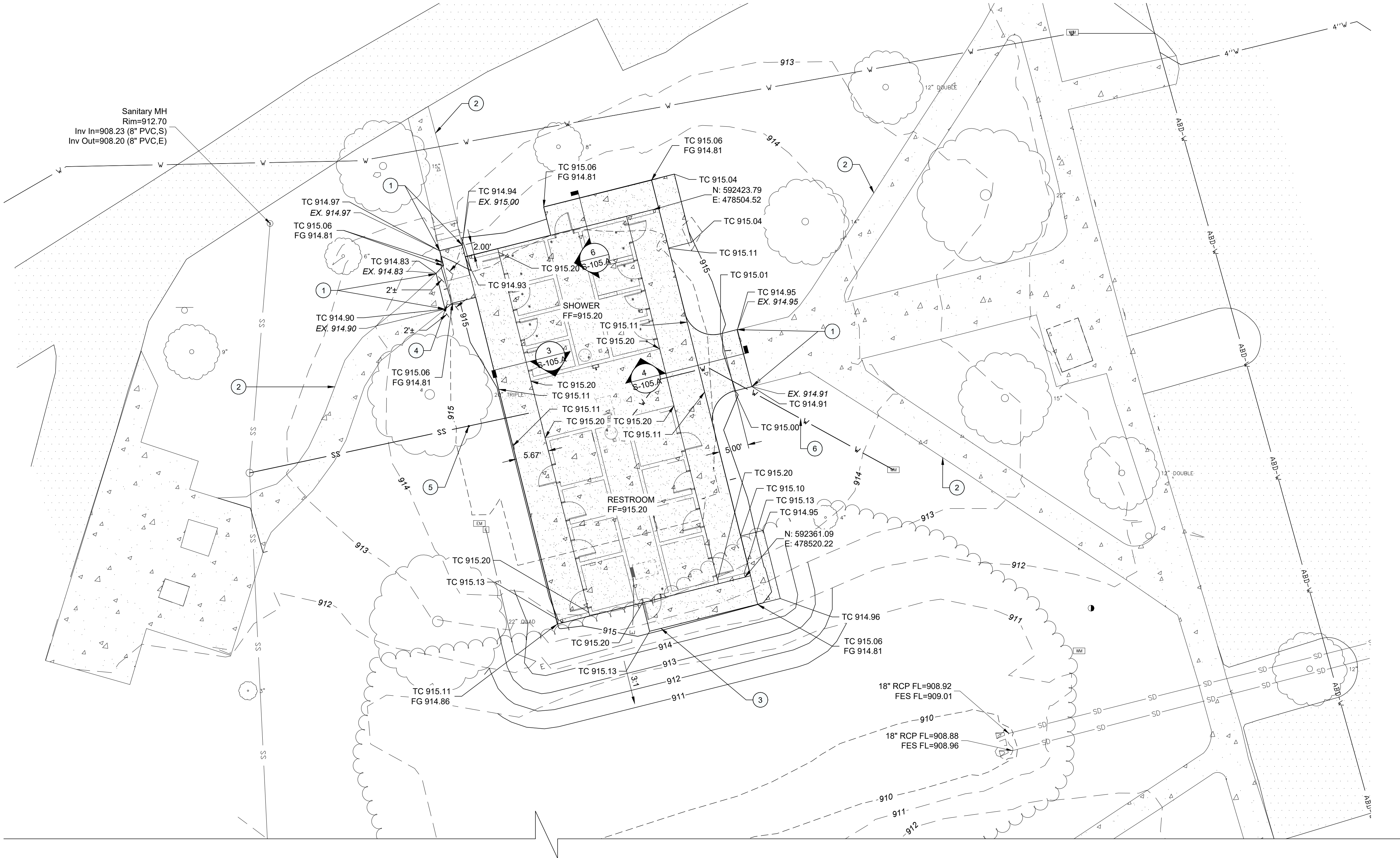
SITE PLAN
LOOP #1

SHEET NUMBER:

C-102.A

43 OF 71 SHEETS
10/24/2025

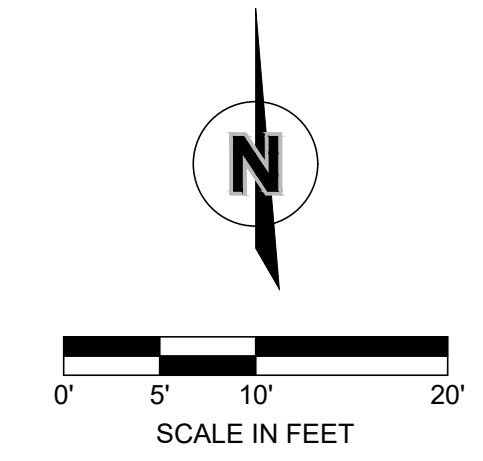




- NOTES:
1. SAWCUT EXISTING CONCRETE AND MATCH EXISTING GRADE WITH NEW CONCRETE.
 2. EXISTING CONCRETE SIDEWALK. DO NOT DISTURB.
 3. NEW CONCRETE SIDEWALK AND BUILDING PAD.
 4. FEATHER FROM NEW CONCRETE SIDEWALK TO EXISTING GRADE TO ENSURE A SMOOTH SLOPE.
 5. CONNECT EXISTING SANITARY SEWER LINE TO NEW SERVICE LINE FROM NEW BUILDING. INSTALL CLEANOUT 3' OUTSIDE OF NEW SIDEWALK. SEE SHEET C-105.A FOR CLEANOUT DETAIL.
 6. EXTEND NEW WATER SERVICE LINE TO EXISTING WATER SERVICE METER. INSTALL TEE AND BALL VALVES TO ALLOW FOR SHOWER HOUSE/RESTROOM DRAINAGE. SEE DETAIL, SHEET C-105.A VERIFY EXISTING WATER SERVICE WITH PARK SUPERINTENDENT.

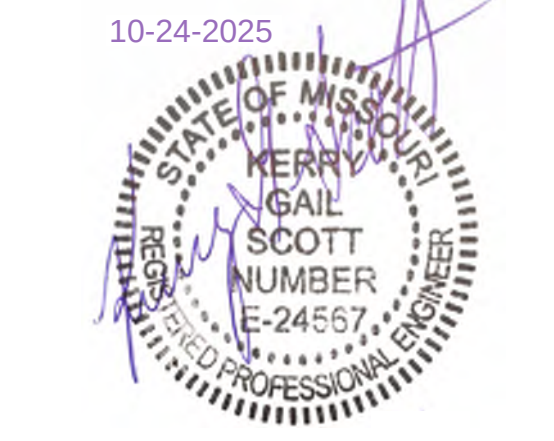
- GRADING NOTES:
1. ALL ELEVATIONS ARE TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 1988).
 2. STRIPPINGS ARE TO BE STOCKPILED ON-SITE AS DIRECTED BY THE ENGINEER. FOLLOWING THE COMPLETION OF THE GRADING, THIS TOPSOIL SHALL BE USED AS FILL MATERIAL ON ALL LANDSCAPED AREAS.
 3. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE GRADING AND REDISTRIBUTED WITH THE TOPSOIL AS OUTLINED IN NOTE #2.
 4. CONTRACTOR SHALL USE CAUTION AROUND ANY EXISTING UTILITIES LOCATED ON-SITE. THEY SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY THE NEW CONSTRUCTION.
 5. THE PROPOSED CONTOURS REPRESENT TOP OF SLAB IN PAVEMENT AREAS AND FINISHED GRADE IN ALL OTHER AREAS. QUANTITIES DO NOT TAKE INTO ACCOUNT CORE-OUT OR ANY OVER-EXCAVATION.
 6. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS AND TO THE BEST OF OUR KNOWLEDGE CONSTITUTES ALL KNOWN FACILITIES. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT AN UNDERGROUND LOCATE SERVICE IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK.
 7. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
 8. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
 9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL BARRIERS FOR A PERIOD OF 1 YEAR OR UNTIL THEY ARE RELEASED FROM THIS RESPONSIBILITY BY THE ENGINEER, WHICHEVER PERIOD IS SHORTER.
 10. ALL ITEMS REMOVED SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR.
 11. IN ALL LOCATIONS WHERE NEW PAVEMENT ABUTS EXISTING, SAW CUT EXISTING PAVEMENT AS NECESSARY TO PROVIDE A SMOOTH TRANSITION AT THE JOINT. MATCH EXISTING GRADES AT THE JOINT IN ALL LOCATIONS.
 12. ALL SIDEWALKS SHALL BE ADA ACCESSIBLE WITH RUNNING SLOPE BEING NO STEEPER THAN 5.00% AND CROSS SLOPES NO STEEPER THAN 2.00%. ALL LANDINGS OUTSIDE OF EXTERIOR ENTRANCES/EXITS SHALL BE NO STEEPER THAN 2.00% FOR THE FIRST 5'-0".
 13. CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
 14. ALL FINISH GRADES AROUND BUILDING SHALL BE 6" BELOW FINISH FLOOR UNLESS SPECIFIED OTHERWISE. CONTRACTOR SHALL FINISH GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.

LEGEND
TC TOP OF CONCRETE/SIDEWALK



MISSOURI
ONE CALL SYSTEM
1-800-DIG-RITE = 811
www.mot1call.com

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

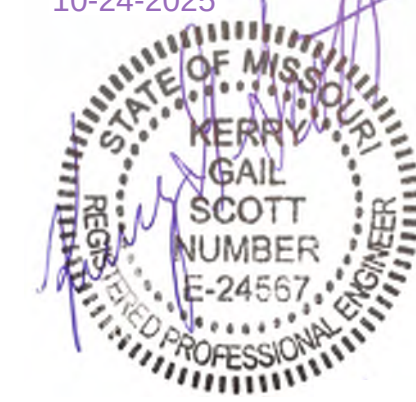
CAD DWG FILE: C-103.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:
GRADING PLAN
LOOP #1

SHEET NUMBER:

C-103.A

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE: C-104.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

EROSION CONTROL
PLAN
LOOP #1

SHEET NUMBER:

C-104.A

45 OF 71 SHEETS
10/24/2025

XX

NOTES:

1. NEW CONCRETE SIDEWALK AND BUILDING PAD.

POLLUTION PREVENTION PROCEDURE NOTES:

1. HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS:

DO: PREVENT SPILLS
USE PRODUCTS UP
FOLLOW LABEL DIRECTIONS FOR DISPOSAL
REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING TRASH
RECYCLE WASTES WHENEVER POSSIBLE

DON'T: DON'T POUR WASTE INTO SEWERS OR WATERWAYS ON THE GROUND
DON'T POUR WASTE DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS
DON'T BURY CHEMICALS OR CONTAINERS, OR DISPOSE OF THEM WITH OTHER WASTE
DON'T BURN OR MIX CHEMICALS OR CONTAINERS
DON'T WASH SEDIMENT DOWN STORM SEWER INLETS
2. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ON-SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.
3. NO WASTE MATERIALS SHALL BE BURIED ON-SITE.
4. MIXING, PUMPING, TRANSFERRING OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
5. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED ONLY IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS.
6. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY TO STORM SEWERS, STREAMS, DITCHES, LAKES, ETC WITHOUT BEING TREATED. A CONCRETE WASHOUT AREA SHALL BE PROVIDED. SEE DETAIL ON SHEET C-105.A.
7. ALL PAINT, SOLVENTS, PETROLEUM PRODUCTS AND PETROLEUM WASTE PRODUCTS, AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS, OR CARTONS) SHALL BE STORED ACCORDING TO BMPs. THE MATERIALS EXPOSED TO PRECIPITATION SHALL BE STORED IN WATERTIGHT, STRUCTURALLY SOUND, CLOSED CONTAINERS. ALL CONTAINERS SHALL BE INSPECTED FOR LEAKS OR SPILLAGE DURING THE ONCE PER WEEK INSPECTION OF BMPs. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO SOIL, THE SOIL SHALL BE DUG UP AND PROPERLY DISPOSED OF. SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER OR PRODUCT DESIGNED FOR THAT PURPOSED AND DISPOSED OF AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. THESE MATERIALS WILL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH MoDNR REQUIREMENTS.
8. STATE LAW REQUIRES THE PARTY RESPONSIBLE FOR A PETROLEUM PRODUCT SPILL IN EXCESS OF 50 GALLONS TO REPORT THE SPILL TO MoDNR (573-634-2436) AS SOON AS PRACTICAL AFTER DISCOVERY. FEDERAL LAW REQUIRES THE RESPONSIBLE PARTY TO REPORT ANY RELEASE OF OIL IF IT REACHES OR THREATENS A SEWER, LAKE, CREEK, STREAM, RIVER, GROUNDWATER, WETLAND, OR AREA, LIKE A ROAD DITCH, THAT DRAINS INTO ONE OF THE ABOVE.
9. SUFFICIENT TEMPORARY TOILET FACILITIES TO SERVE THE NUMBER OF WORKERS ON THE SITE SHALL BE PROVIDED. THE FACILITIES SHALL BE SERVICED FREQUENTLY TO MAINTAIN A SANITARY CONDITIONS.

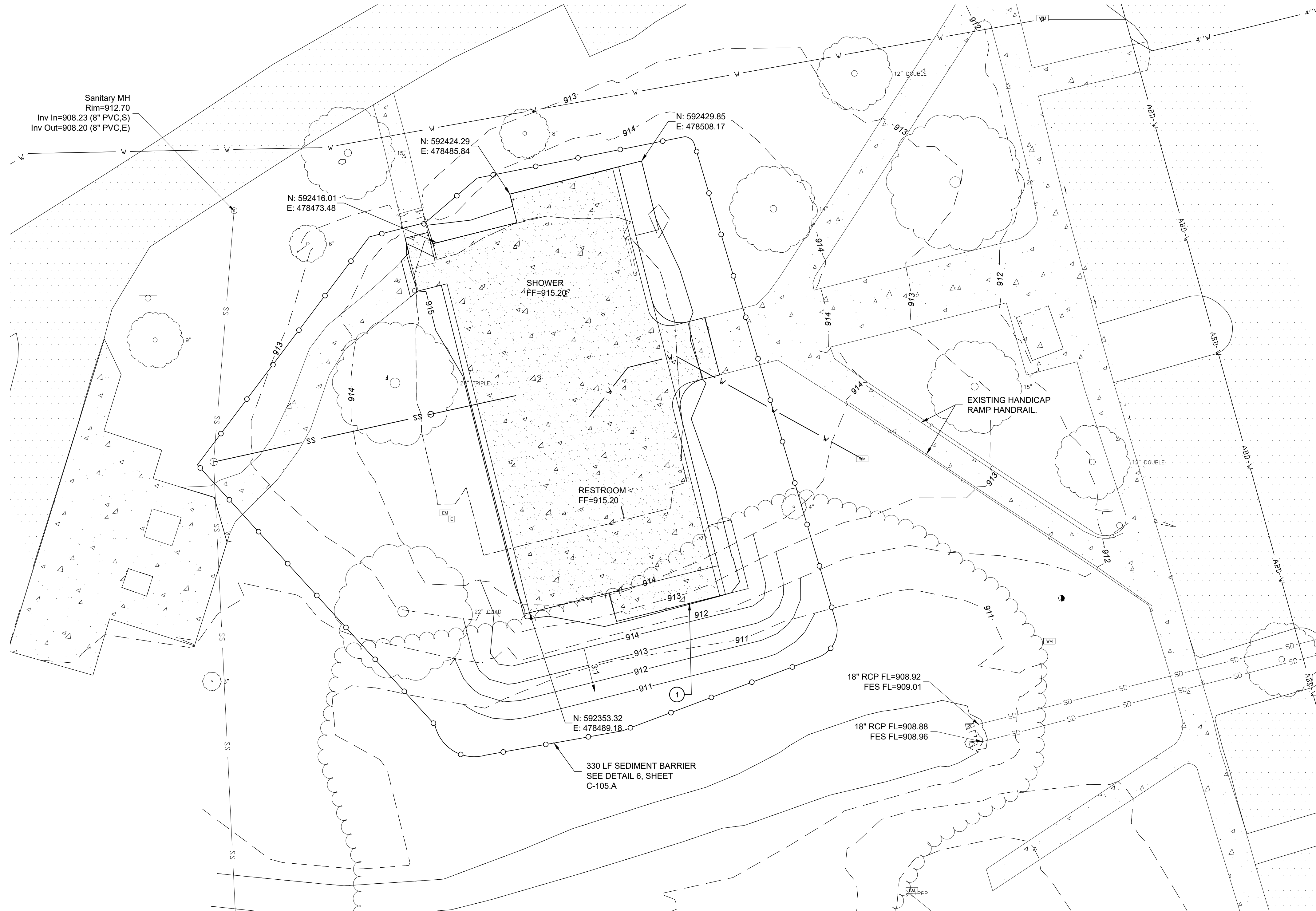
EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES THROUGHOUT THE PROJECT. ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
2. EROSION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY. THIS PLAN SHOULD BE USED AS A GUIDE AND REPRESENTS THE MINIMUM EROSION CONTROL DEVICES REQUIRED.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL EROSION & SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL EVENT.
5. THE CONTRACTOR SHALL PROVIDE ANY FURTHER EROSION CONTROL MEASURES IN ADDITION TO THOSE LISTED TO ENSURE THAT SILT WILL NOT LEAVE THE PROJECT CONFINES.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION & SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED WITH A HEALTHY STAND OF PERMANENT VEGETATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT COMPLETION OF CONSTRUCTION.
8. THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
9. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY STABILIZATION AS REQUIRED.
10. ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS, CITY OF SPRINGFIELD, MISSOURI.
11. REFERENCE DETAILS ON SHEET C-105.A FOR TYPICAL EROSION CONTROL DEVICE INSTALLATION.
12. THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE STREETS OF DEPOSITED MUD AS FREQUENTLY AS NEEDED IN ORDER TO KEEP THEM USABLE AND TO CONTROL DUST.
13. CONTRACTOR IS RESPONSIBLE FOR PHASED INSTALLATION OF EROSION CONTROL BMP'S IN ORDER TO PREVENT SEDIMENT FROM BREACHING THE LIMITS OF DISTURBANCE.

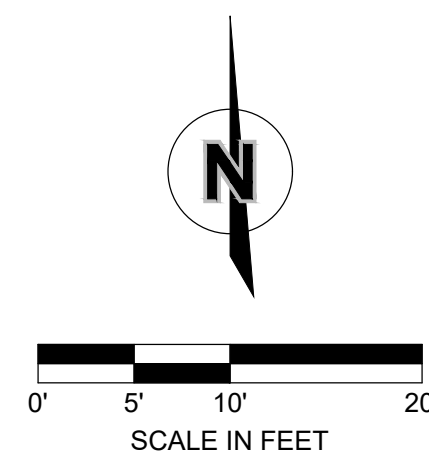
EROSION CONTROL MATTING NOTE:

EROSION CONTROL MATTING MAY BE DELETED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:

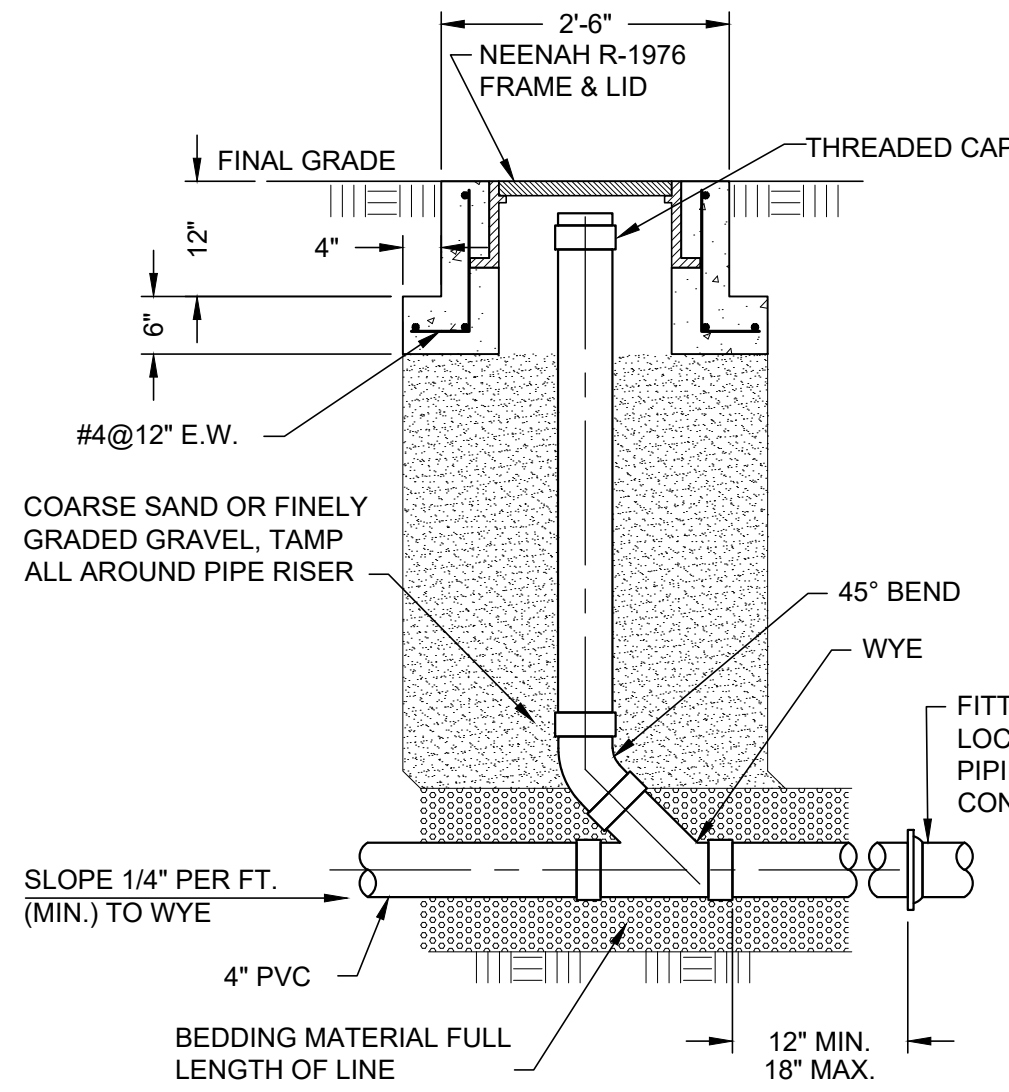
- SOD IS UTILIZED AS PERMANENT STABILIZATION (COORD. WITH THE PLANTING PLANS)
- LOCATIONS ARE NOT DORMANT FROM EARTHWORK ACTIVITIES FOR 14 OR MORE DAYS
- FINAL GRADING HAS NOT BEEN COMPLETED



1 SHOWER HOUSE RESTROOM EROSION CONTROL PLAN LOOP 1
SCALE: 1" = 10'



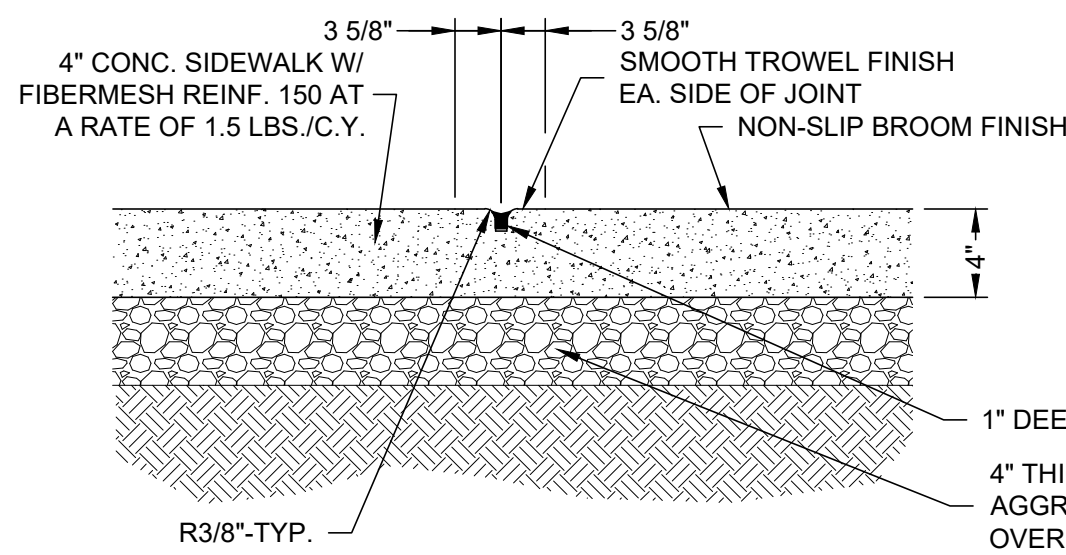
MISSOURI
ONE CALL SYSTEM
1-800-DIG-RITE • 811
www.moi1call.com



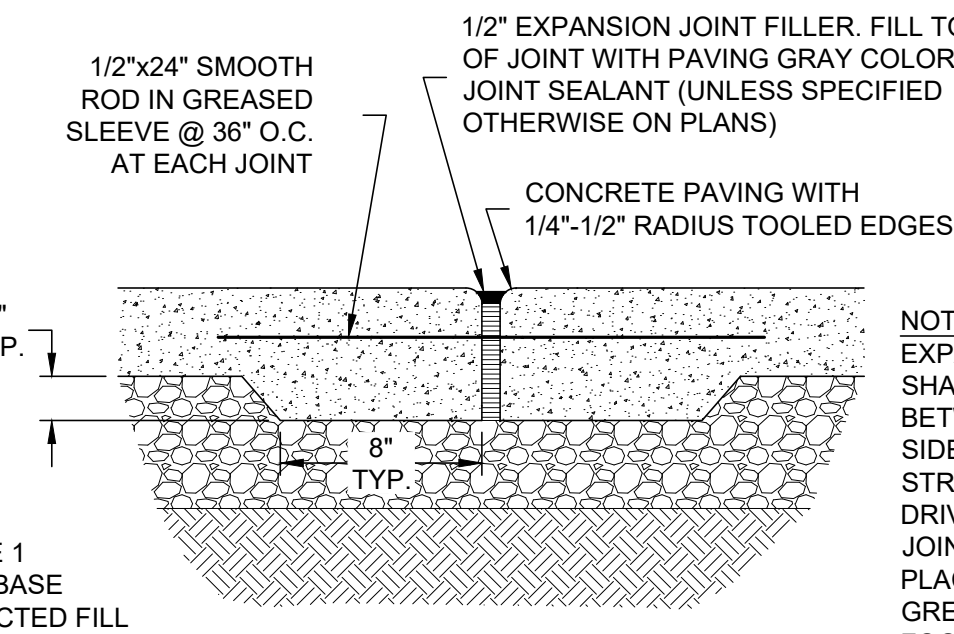
1 CLEANOUT DETAIL
SCALE: NOT TO SCALE

NOTES:

1. EVENLY SPACE TOOLED JOINTS EQUAL TO WIDTH OF SIDEWALKS UP TO 12'-0".



SIDEWALK & TOOLED CONTROL JOINT DETAIL

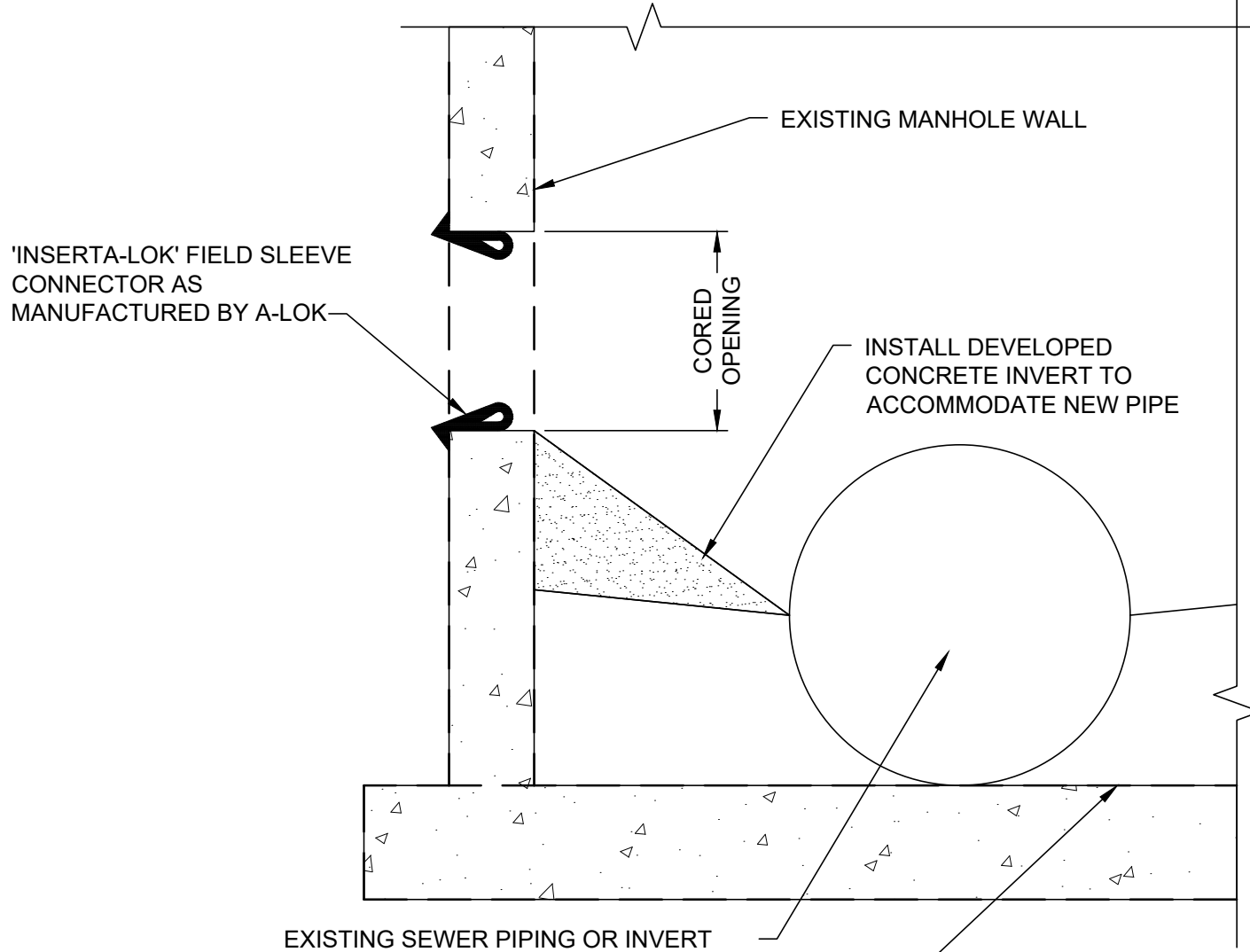


EXPANSION & CONSTRUCTION JOINT DETAIL

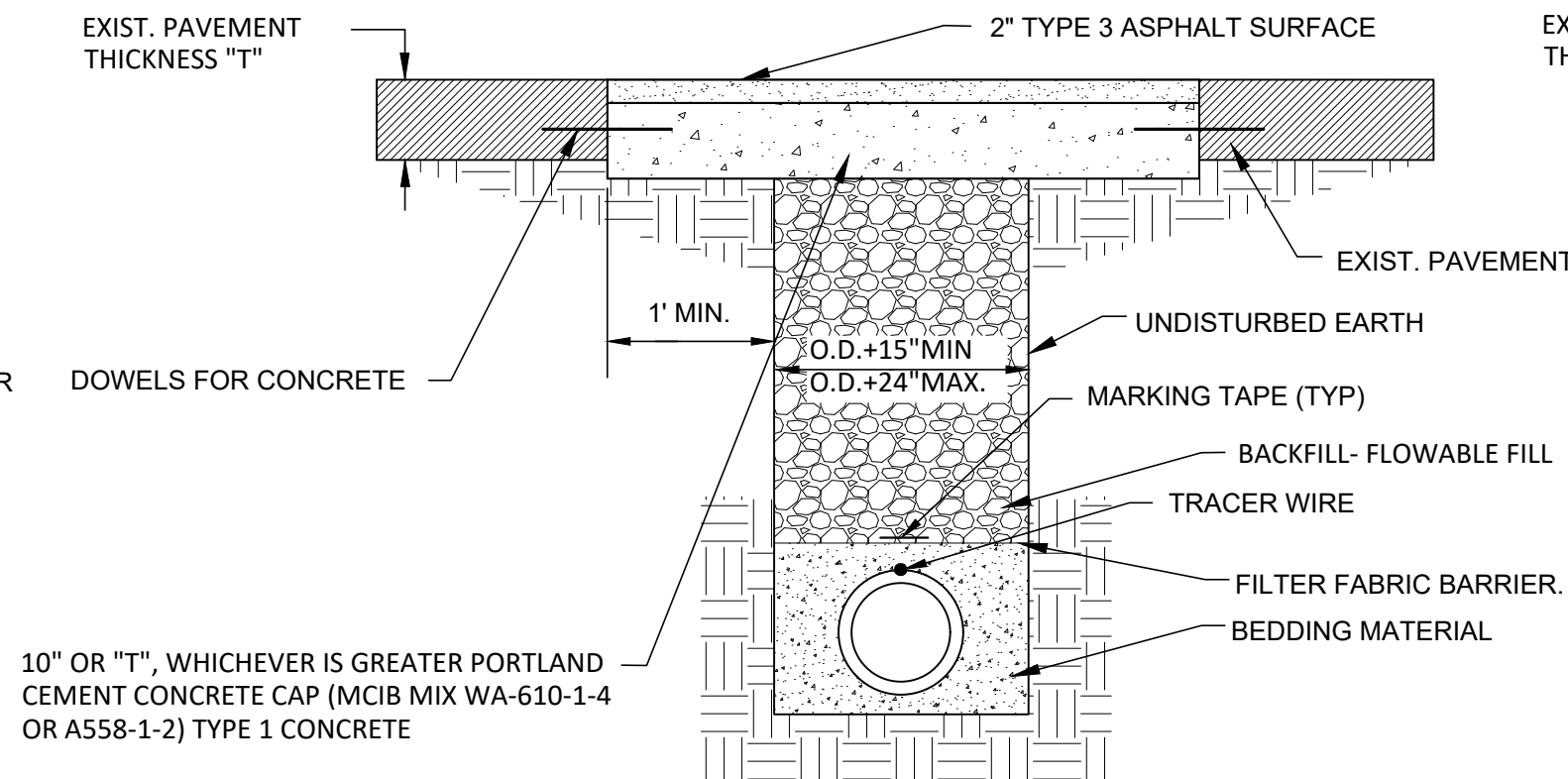
6 SIDEWALK DETAILS
SCALE: NOT TO SCALE

CORING NOTE:
CORE EXISTING MANHOLE, USE "INSERTA-LOK" OR APPROVED EQUAL FOR PIPE CONNECTION TO MANHOLE;
(1) LUBE AND BEVEL PIPE,
(2) LUBE GASKET AND
(3) INSERT PIPE IN CENTER OF GASKET TO PROVIDE A WATERTIGHT COMPRESSION CONNECTION.

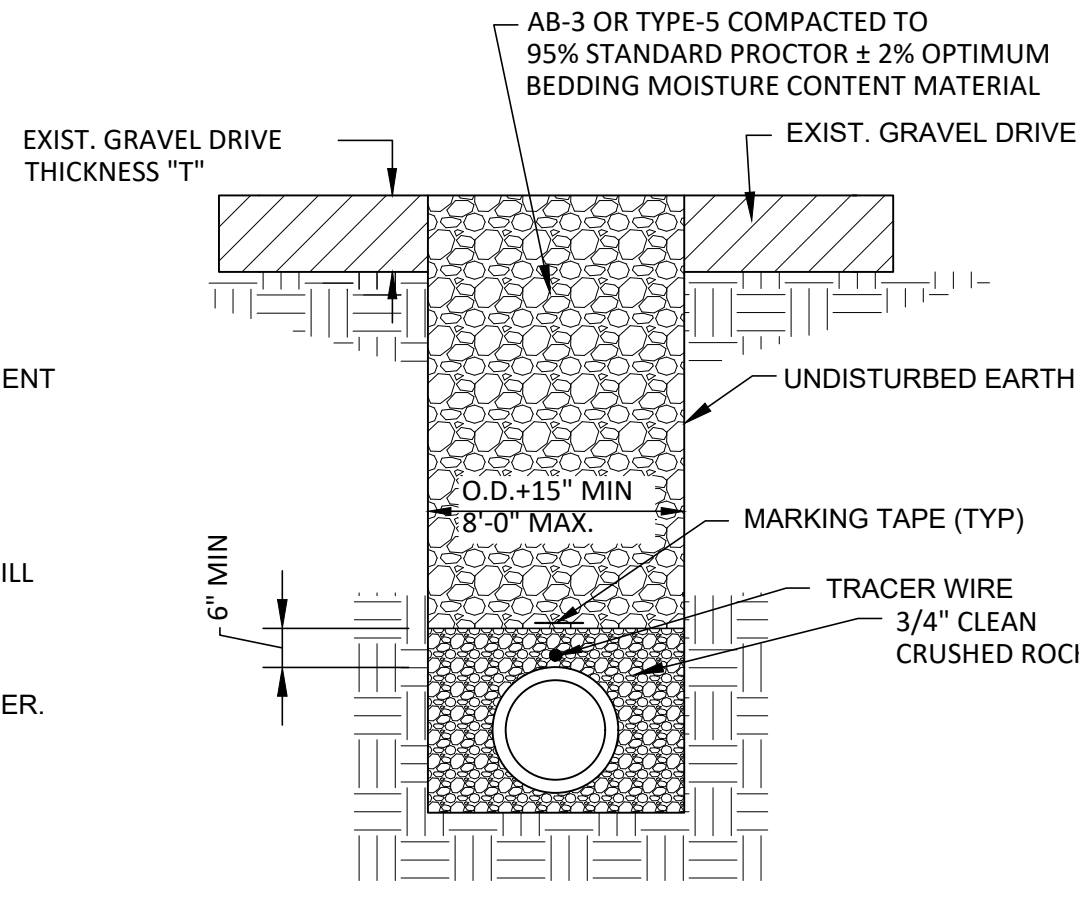
NOTE:
COORDINATE EXACT SIZE OF CORED OPENING WITH MANUFACTURER.



8 EXISTING MANHOLE CONNECTION DETAIL
SCALE: NOT TO SCALE



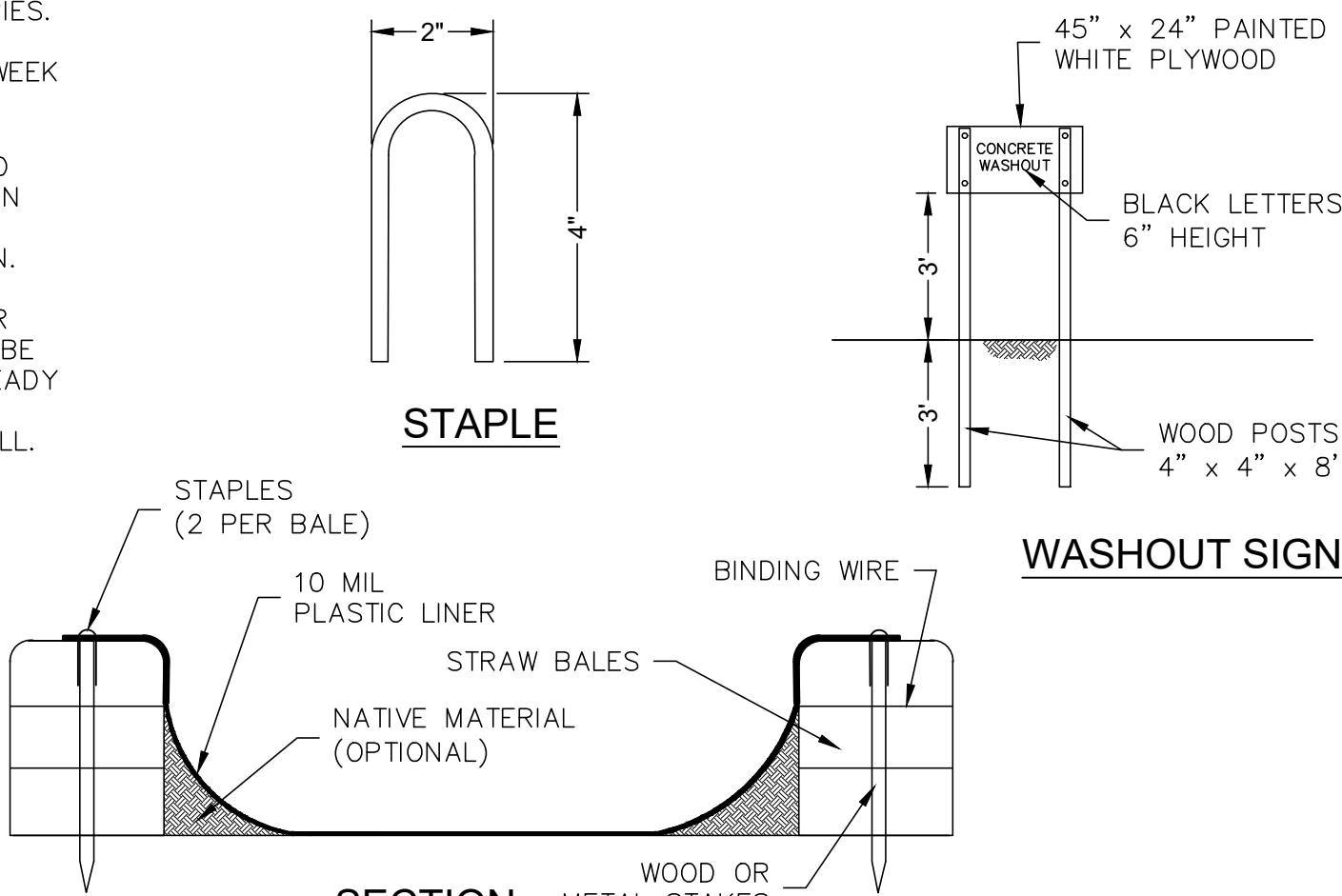
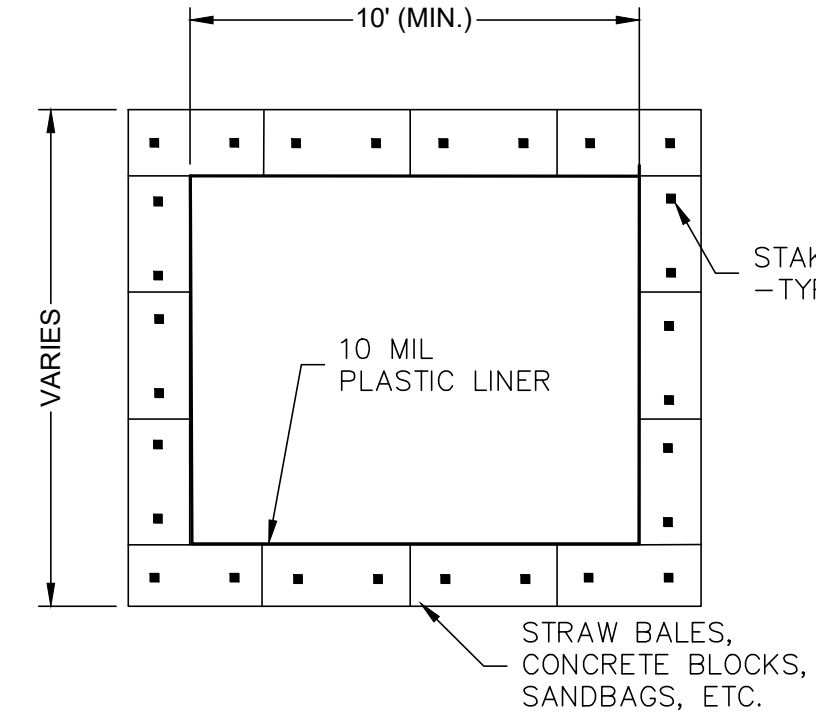
2 STREET CUT RESTORATION
SCALE: NOT TO SCALE



4 TRENCH UNDER GRASSY AREAS DETAIL
SCALE: NOT TO SCALE

NOTES:

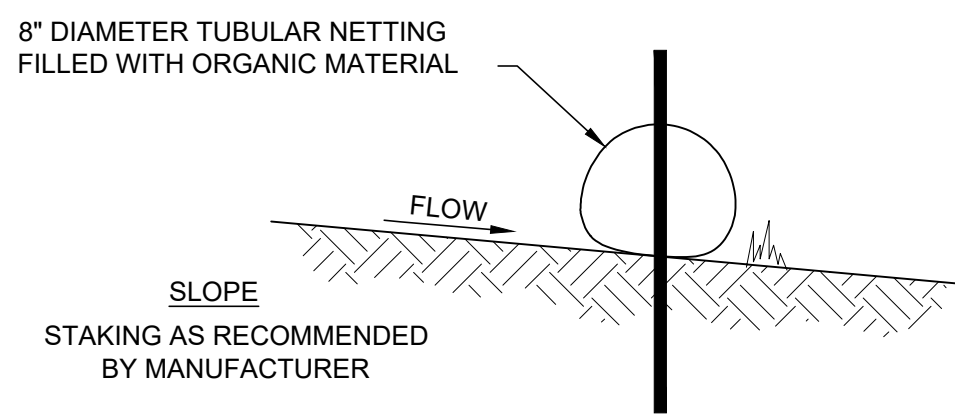
1. ACTUAL LAYOUT LOCATIONS & NUMBER OF WASH-OUTS TO BE DETERMINED BY CONTRACTOR IN FIELD.
2. THE CONCRETE WASH-OUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. WASH-OUTS SHALL BE LOCATED A MINIMUM OF 50 FT. FROM STORM DRAINS, OPEN DRAINAGE FACILITIES AND WATER COURSES. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE.
4. INSTALL BEFORE THE START OF ANY CONCRETE ACTIVITIES OR DELIVERIES.
5. INSPECT EVERY WEEK AND AFTER 1/2" STORM EVENT. REMOVE AND DISPOSE OF HARDENED CONCRETE AND RETURN THE FACILITY TO A FUNCTIONAL CONDITION. WASH-OUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASH-OUT IS 75% FULL.
6. WHEN TEMPORARY CONCRETE WASH-OUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASH-OUT FACILITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE WASH-OUT SHALL BE BACKFILLED AND REPAIRED.



10 CONCRETE WASHOUT DETAIL
SCALE: NOT TO SCALE

SEDIMENT BARRIER NOTES:

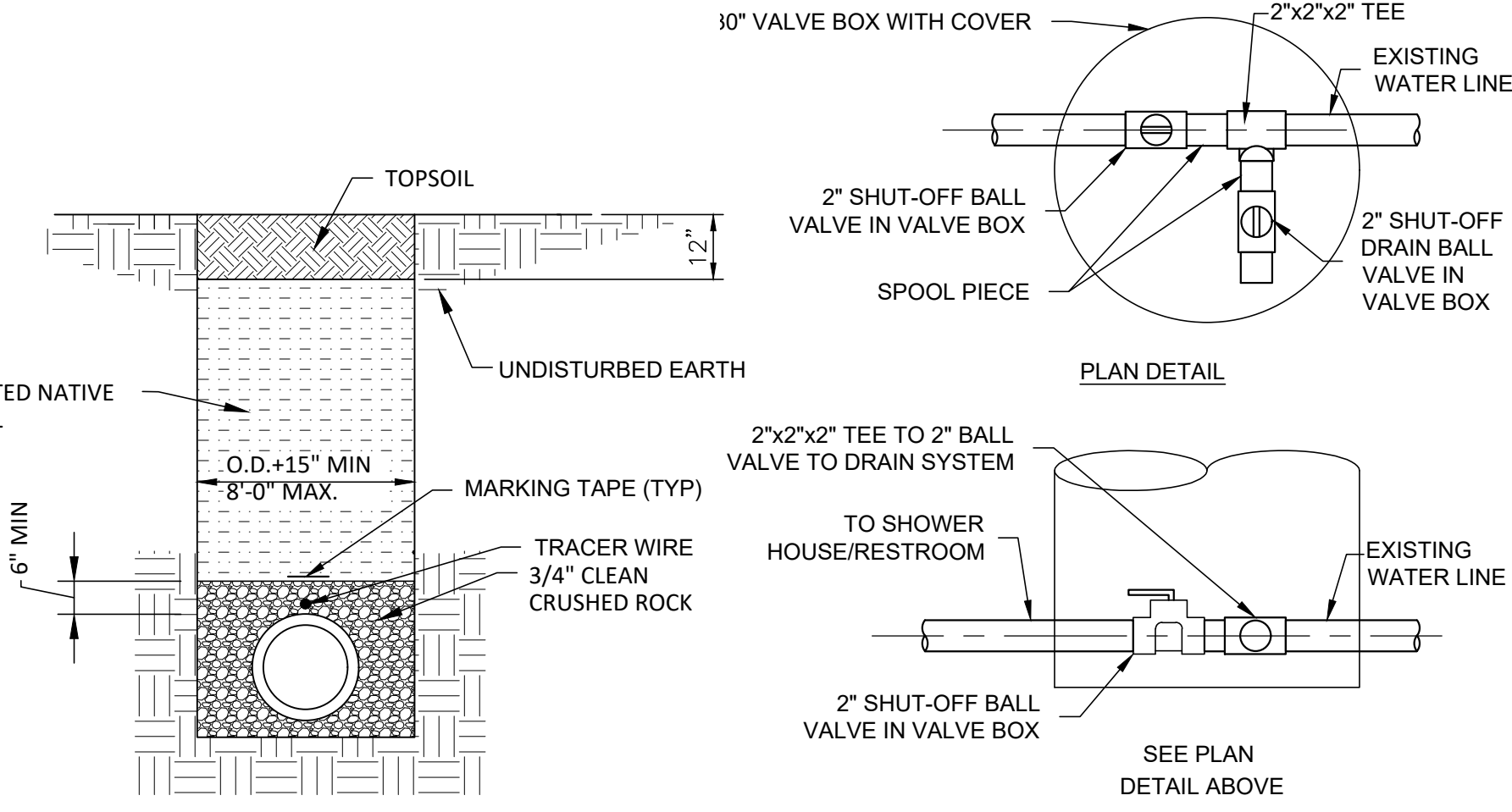
1. PLACE SEDIMENT BARRIER AT DOWNSLOPE LIMIT OF AREA TO BE GRADED AS NECESSARY.
2. FASTEN SEDIMENT BARRIER AS RECOMMENDED BY MANUFACTURER.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. SEDIMENT BARRIER SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
5. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH RECOMMENDED BY MANUFACTURER AND DISPOSED OF IN AN APPROVED SPOIL SITE OR AS IN NO. 5 ABOVE.
7. AT EACH END OF SEDIMENT BARRIER, TURN SOCK UPSLOPE AND EXTEND UNTIL GROUND SURFACE RISES 18".



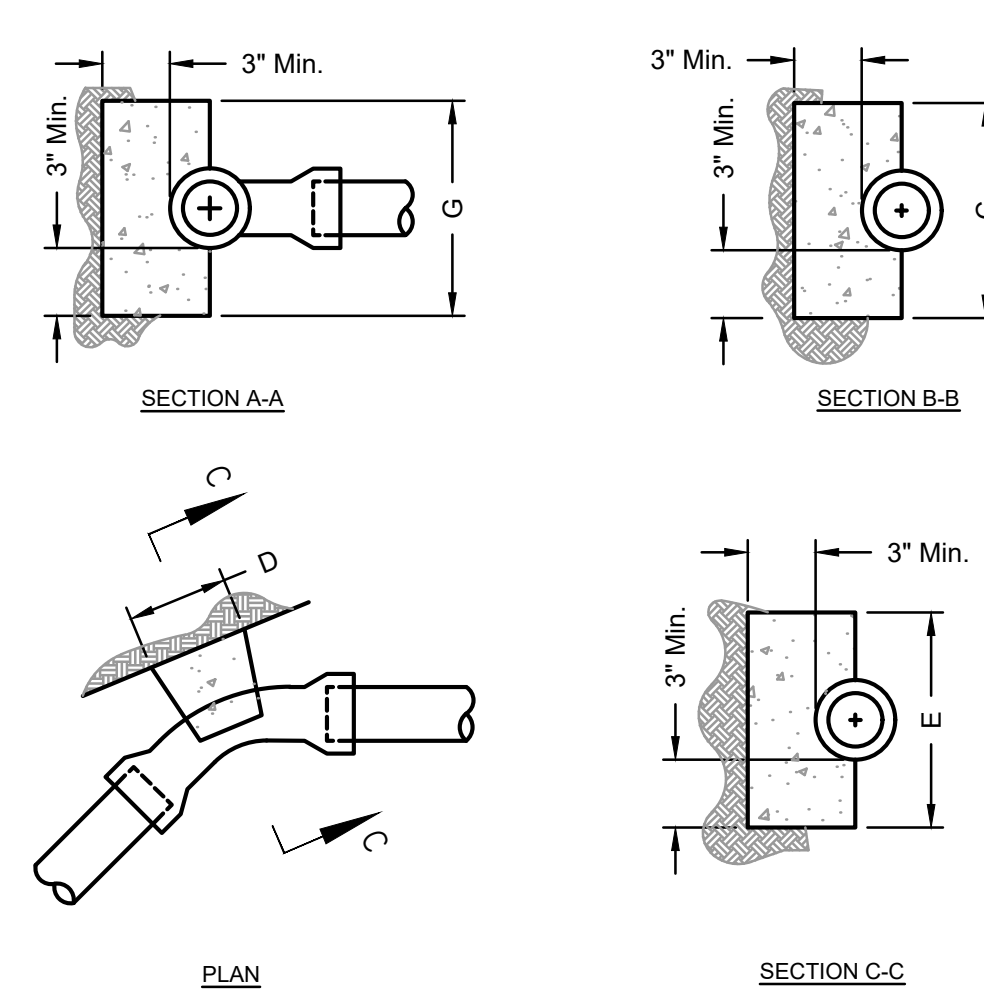
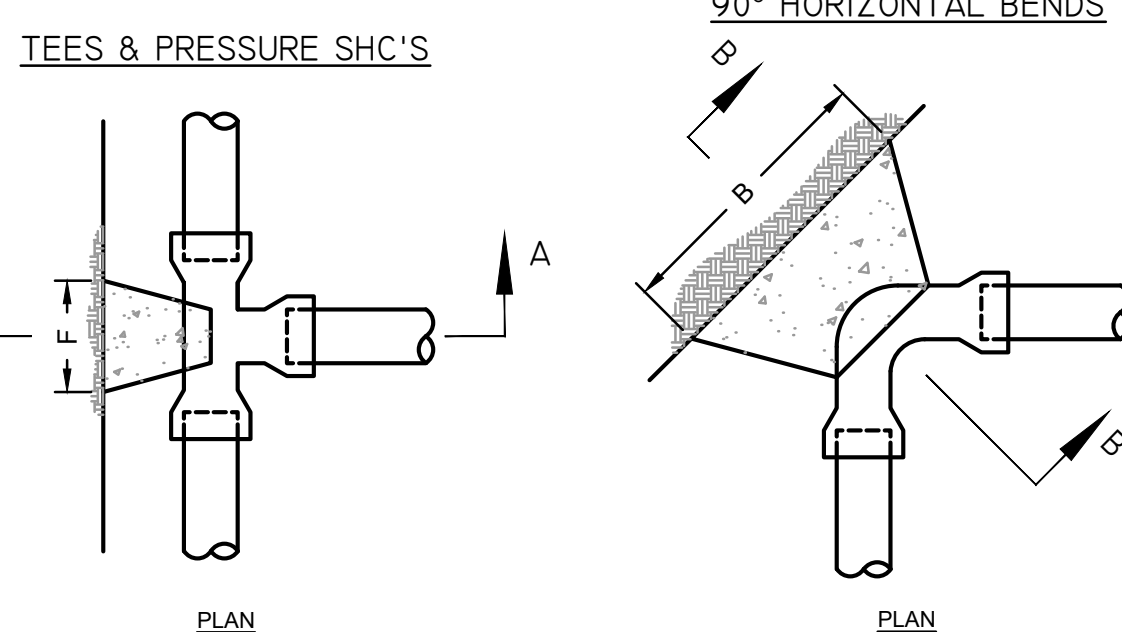
12 SEDIMENT BARRIER
SCALE: NOT TO SCALE

TRENCH UNDER GRAVEL DRIVE/SHOULDER NOTES:

1. NEW SURFACING SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACE AND SHALL MATCH THE SLOPE AND CONTOURS OF THE SURROUNDING PAVEMENT.
2. ROCK BACKFILL SHALL BE AB-3 OR TYPE-5. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR $\pm$ 2% OPTIMUM MOISTURE CONTENT.
3. IN GRASS SHOULDER AREAS, 12" OF TOPSOIL SHALL BE PLACED.



5 WATER SERVICE CONNECTION
SCALE: NOT TO SCALE



11 1/4", 22 1/2", 45° HORIZONTAL AND LOWER VERTICAL BENDS

PIPE SIZE	B	C	D	E	F	G
1" THRU 1 1/2"	8"	8"	10"	5"	6"	6"
2"	10"	10"	14"	7"	10"	10"
2 1/2"	10"	10"	14"	7"	10"	10"
3"	12"	12"	18"	9"	12"	12"
4"	13"	12"	24"	12"	16"	16"

NOTES:

1. USE TYPE 1 CONCRETE
2. CARRY ALL BEARING SURFACES TO UNDISTURBED GROUND OR FIRM SUBGRADE.
3. BUTTRESS SIZED FOR 160 PSI
4. DO NOT ENCASE JOINTS
5. ONLY MIX WITH POTABLE WATER



10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 10/24/2025

CAD DWG FILE: C-105.dwg
DRAWN BY: TMH
CHECKED BY: KS
DESIGNED BY: KS

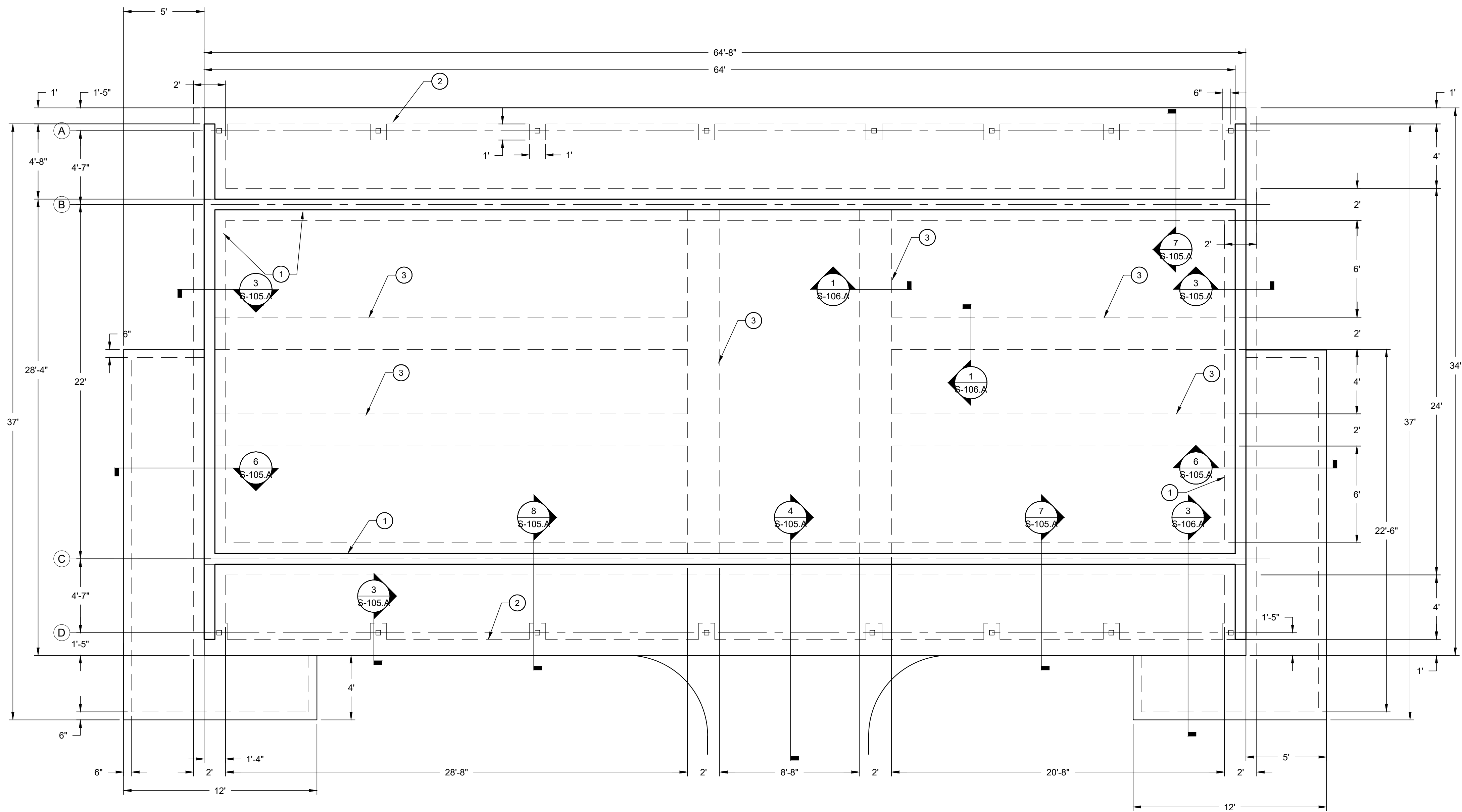
SHEET TITLE:

CIVIL DETAILS

SHEET NUMBER:

C-105.A

46 OF 71 SHEETS
10/24/2025



1 SHOWER HOUSE/BATHROOM FOUNDATION PLAN
SCALE: 1" = 10'

- NOTES:
1. CONTINUOUS 1'x2' SPREAD FOOTING WITH 8" POURED IN PLACE CONCRETE STEM WALL. SEE SECTION 3/S-105.
 2. CONTINUOUS TURNED DOWN SLAB FOOTING. SEE SECTION 4/S-105.
 3. THICKENED SLAB UNDER CMU WALL. SEE DETAIL 1/S-105.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson®

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE: S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

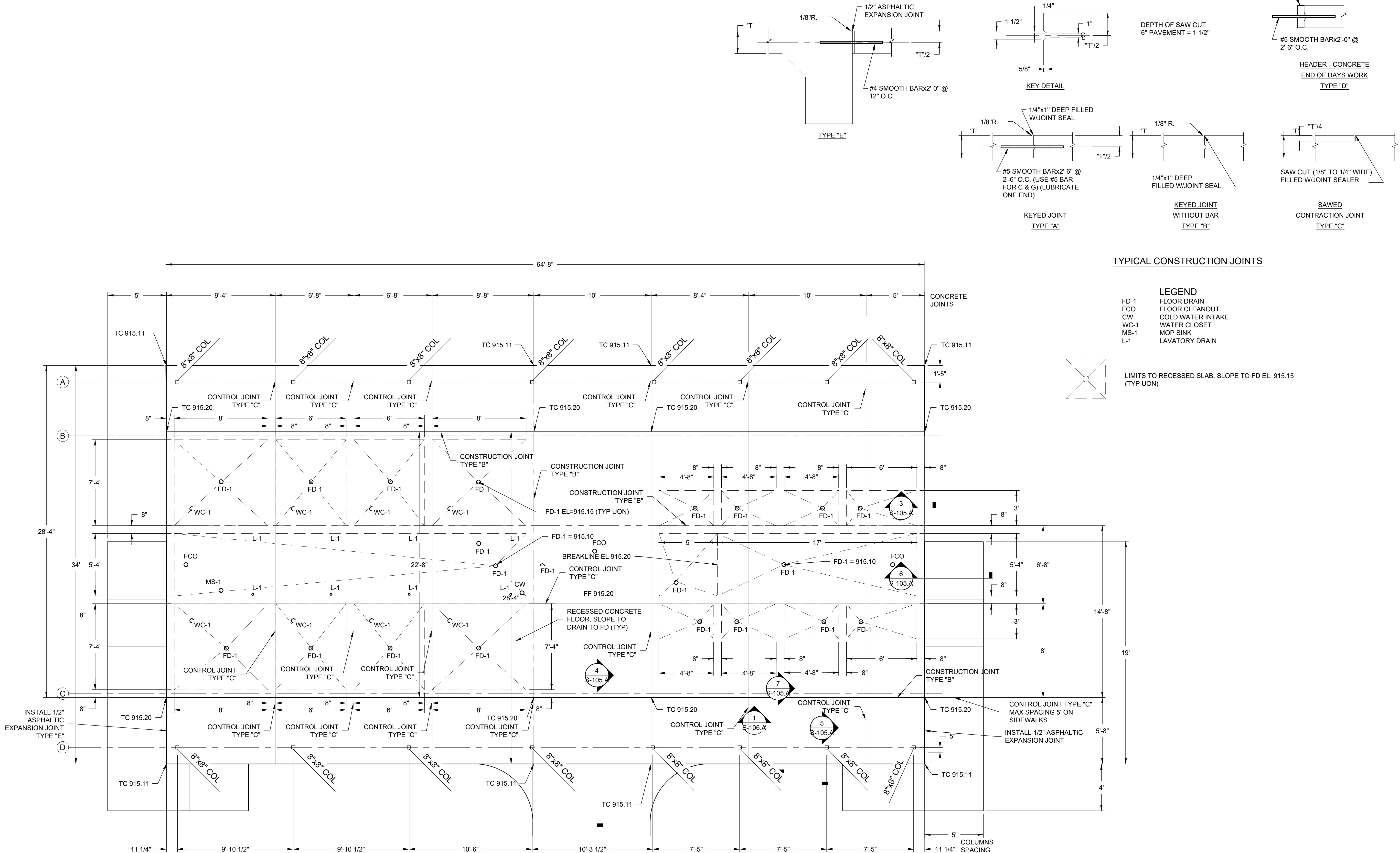
SHEET TITLE:

FOUNDATION PLAN
LOOP #1

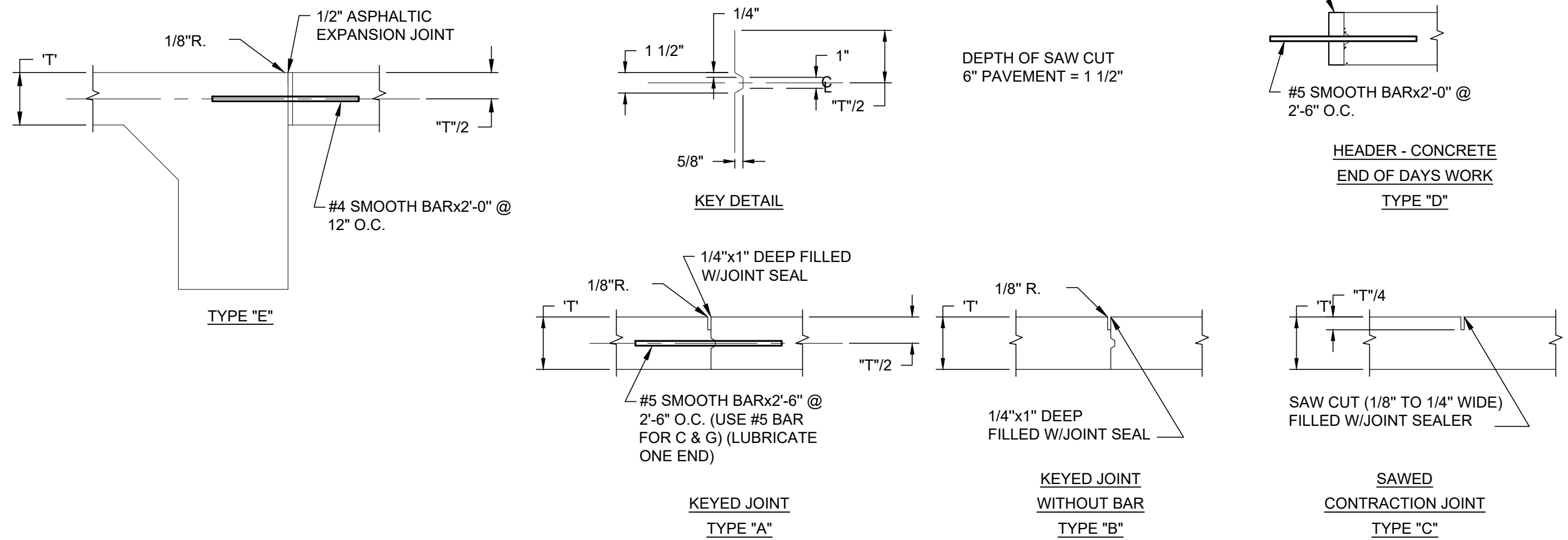
SHEET NUMBER:

S-101.A

47 OF 71 SHEETS
10/24/2025



1 SHOWER HOUSE/BATHROOM SLAB AND JOINT PLAN
SCALE: 1/4" = 1'-0"



TYPICAL CONSTRUCTION JOINTS

- LEGEND
- FD-1 FLOOR DRAIN
 - FCO FLOOR CLEANOUT
 - CW COLD WATER INTAKE
 - WC-1 WATER CLOSET
 - MS-1 MOP SINK
 - L-1 LAVATORY DRAIN

LIMITS TO RECESSED SLAB. SLOPE TO FD EL. 915.15 (TYP UON)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 10/24/2025

CAD DWG FILE:S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

CONCRETE SLAB
AND JOINT PLAN
LOOP #1

SHEET NUMBER:

S-102.A

48 OF 71 SHEETS
10/24/2025

WALL LEGEND

INDICATES LOAD BEARING WALLS.

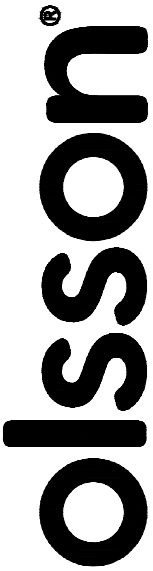
INDICATES NON-LOAD BEARING WALLS.

INDICATES CMU WALLS.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805



Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE:S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

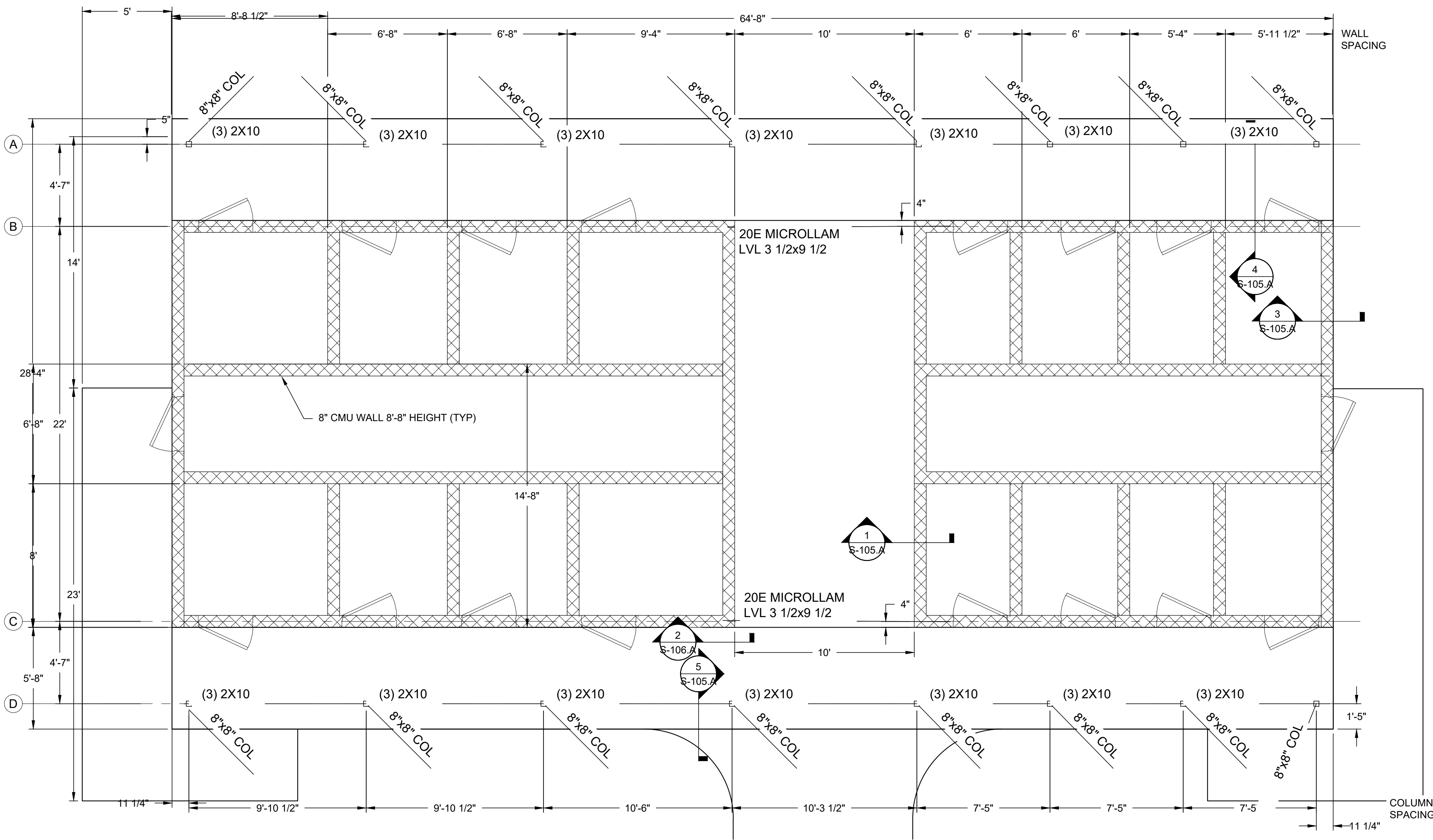
SHEET TITLE:

FRAMING PLAN
LOOP #1

SHEET NUMBER:

S-103.A

49 OF 71 SHEETS
10/24/2025



1 SHOWER HOUSE/BATHROOM FRAMING PLAN
SCALE: 1" = 10'

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson®

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE:S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

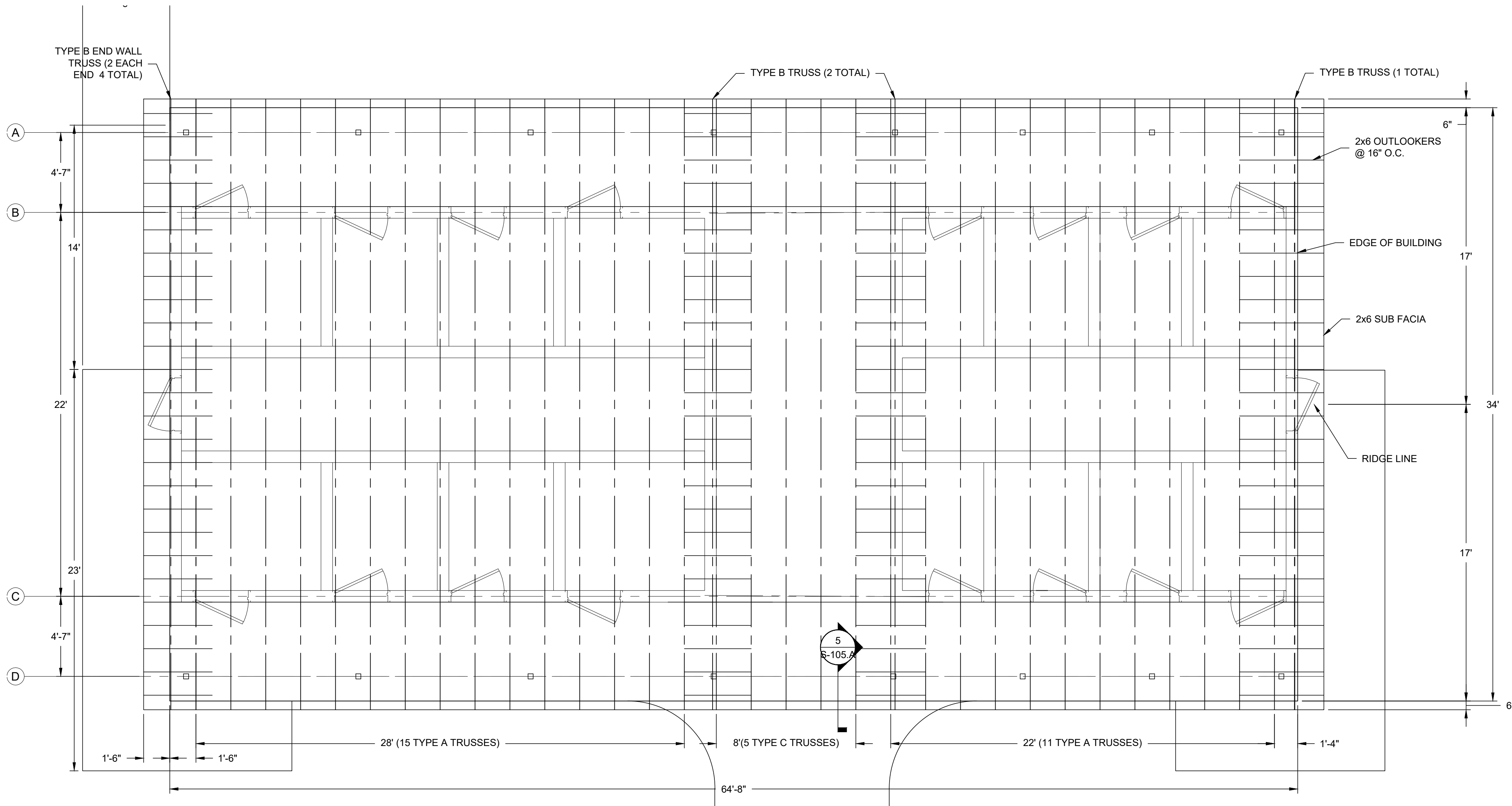
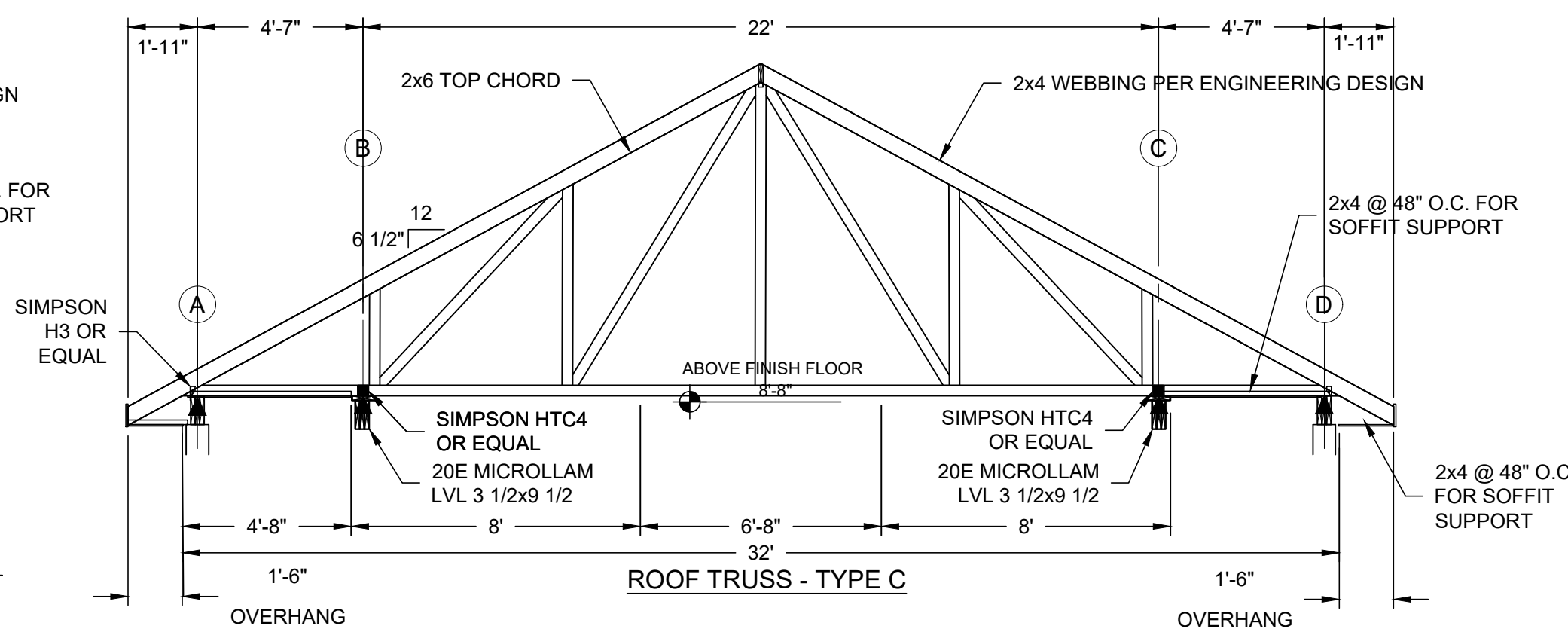
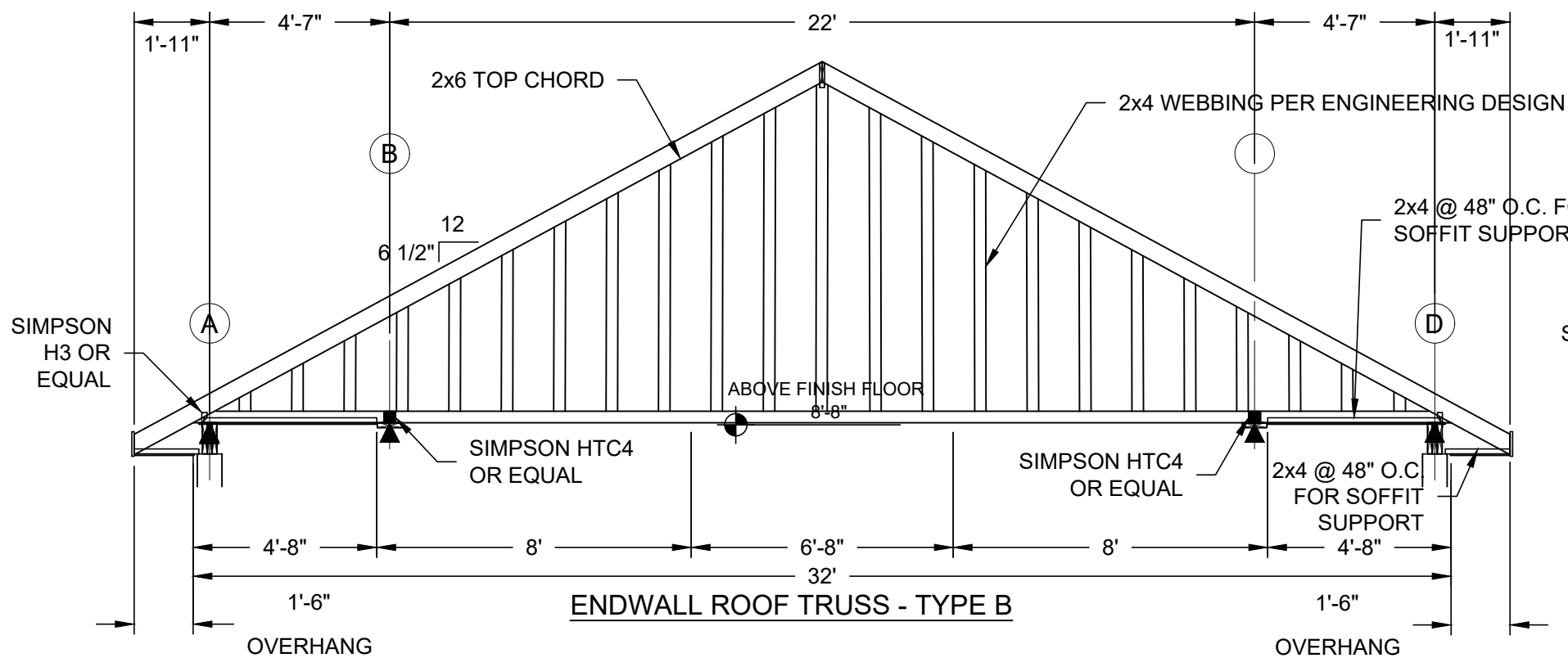
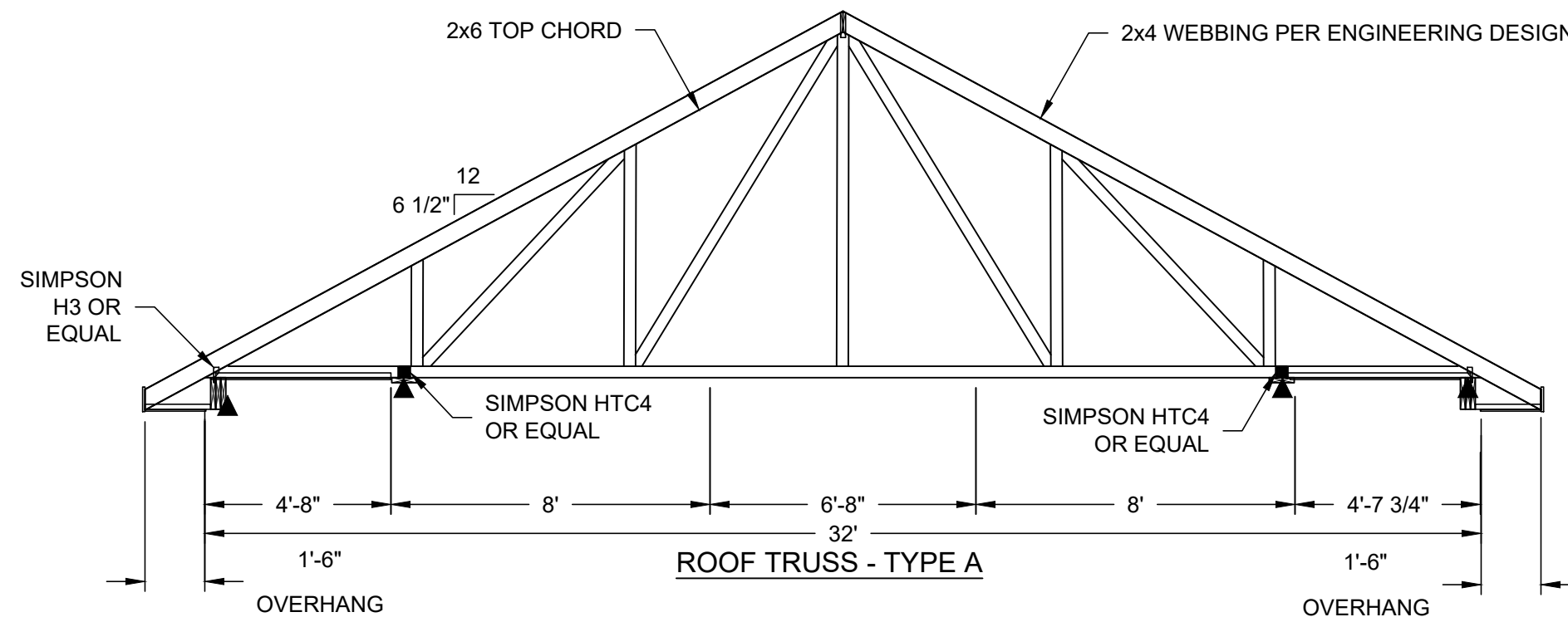
SHEET TITLE:

TRUSS FRAMING
PLAN LOOP #1

SHEET NUMBER:

S-104.A

50 OF 71 SHEETS
10/24/2025



TRUSS REQUIREMENTS:

TOP CHORD: LIVE LOAD 30 PSF
DEAD LOAD 10 PSF
BOTTOM CHORD: DEAD LOAD 10 PSF

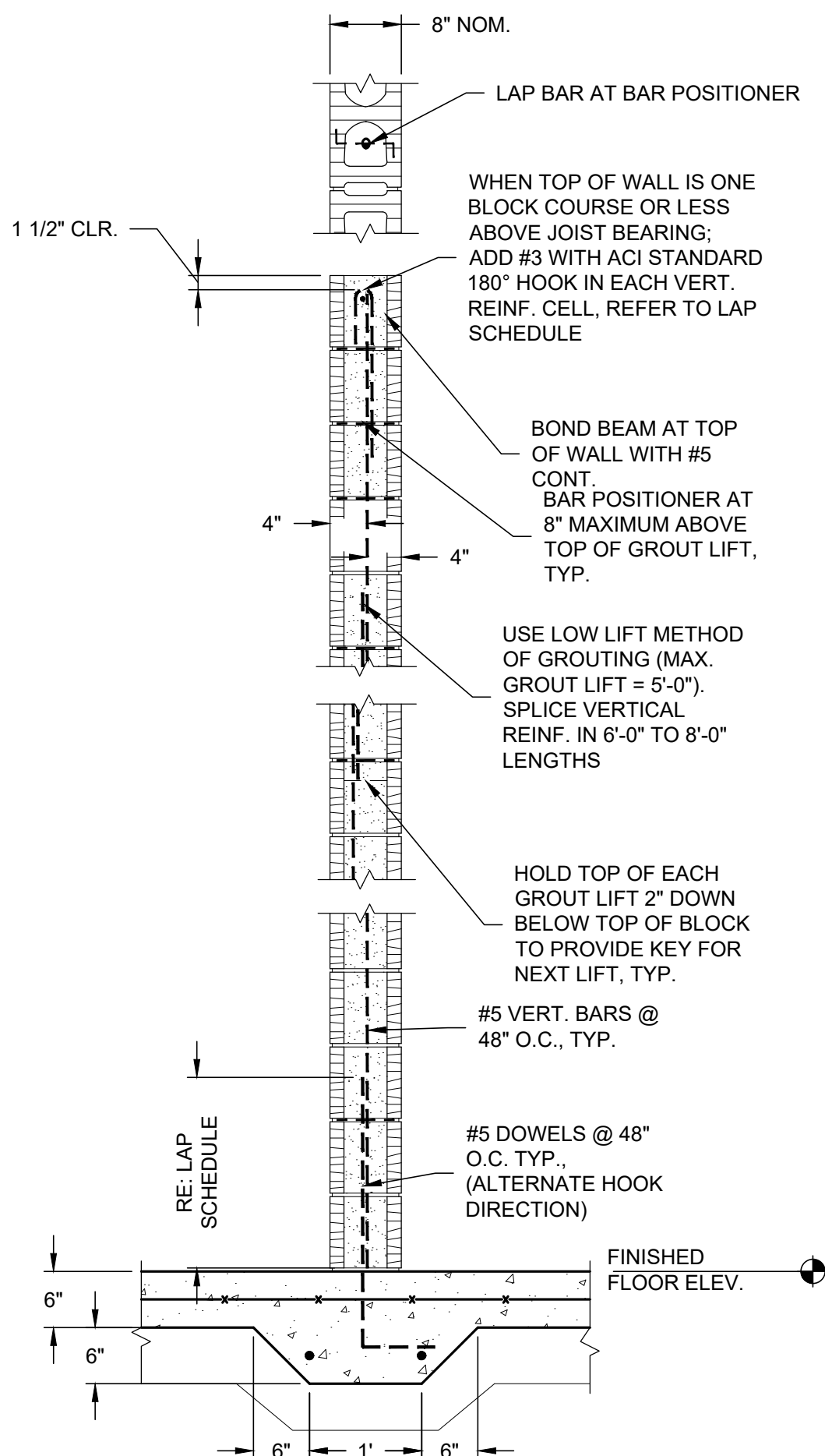
WOOD TRUSSES SHALL BE FABRICATED BY A MANUFACTURER HAVING A MINIMUM OF TEN (10) YEARS EXPERIENCE IN ENGINEERING AND MANUFACTURING PRE-FABRICATED WOOD TRUSSES. TRUSS MANUFACTURER SHALL PROVIDE MANUFACTURER'S MATERIAL SPECIFICATIONS AND CERTIFY THEIR COMPLIANCE WITH THESE PROJECT REQUIREMENTS. ENGINEERING SHALL BE PERFORMED BY AN ENGINEER CURRENTLY LICENSED BY THE STATE OF MISSOURI. PRIOR TO MANUFACTURE, SUBMIT SHOP DRAWINGS AND ENGINEERING DATA SEALED BY THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS. TRUSSES SHALL BE CONSTRUCTED TO ALL ENGINEERING REQUIREMENTS. UPPER AND LOWER CHORD MEMBERS SHALL NOT BE LESS THAN 2x6, 2x2 WEB MEMBERS WILL NOT BE ALLOWED. 'W' STYLE CONFIGURATION SHOWN. OTHER CONFIGURATIONS MAY BE ACCEPTABLE.

LEGEND

▲ LOAD BEARING

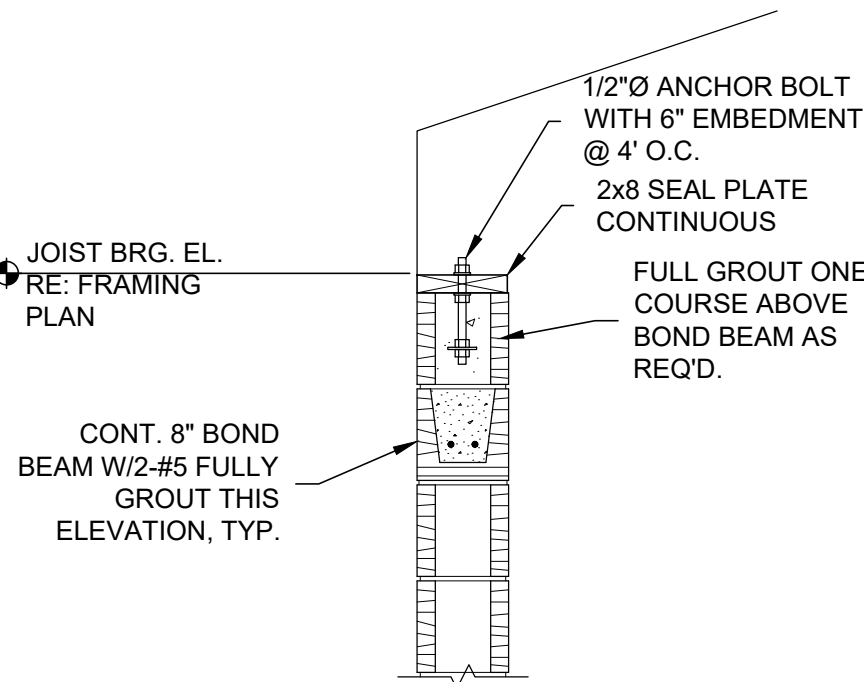
NOTES:

1. GROUT SOLID ALL CELLS WITH REINFORCING.
2. USE BOND BEAM BLOCKS WITH OPEN BOTTOMS ONLY AT BOND BEAM LOCATIONS. DO NOT USE THROUGH-TYPE BLOCKS AT BOND BEAMS.
3. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS.
4. ALL MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. REINFORCED BOND BEAMS WITH (2)-#5 CONTINUOUS (TYP.)
6. HORIZONTAL JOINT REINFORCING SHALL BE GALVANIZED LADDER TYPE SPACED AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE AND IN PARAPETS. SPLICE JOINT REINFORCING 12" MIN.. DO NOT CONTINUE JOINT REINFORCING THROUGH MASONRY CONTROL JOINTS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS.

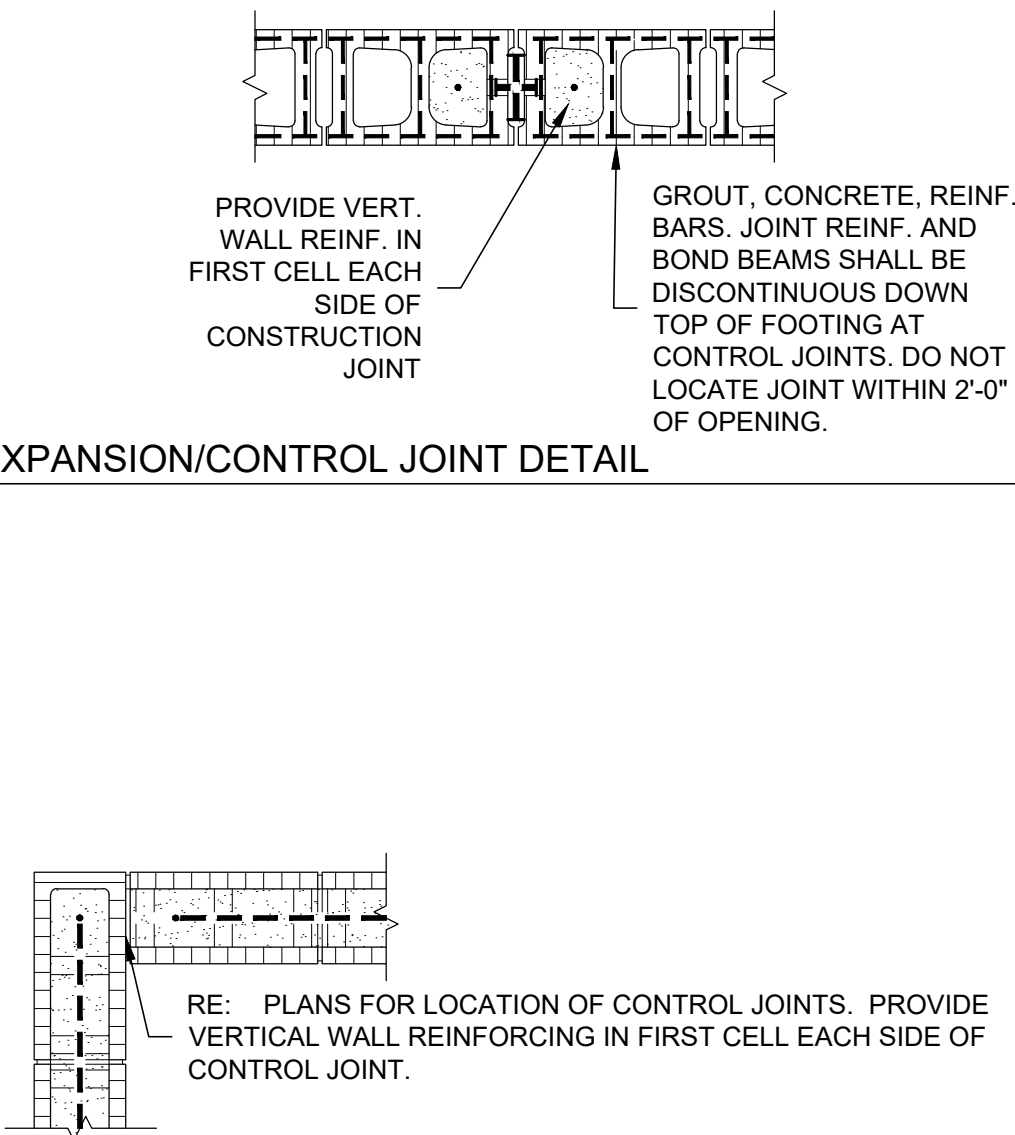


NOTE: GROUT SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS.

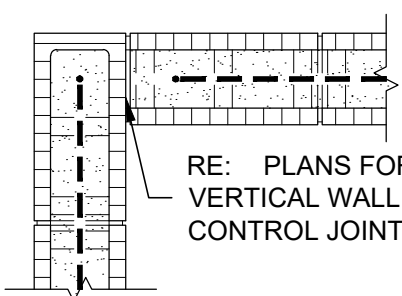
BOND BEAM AT ROOF LEVEL



EXPANSION/CONTROL JOINT DETAIL

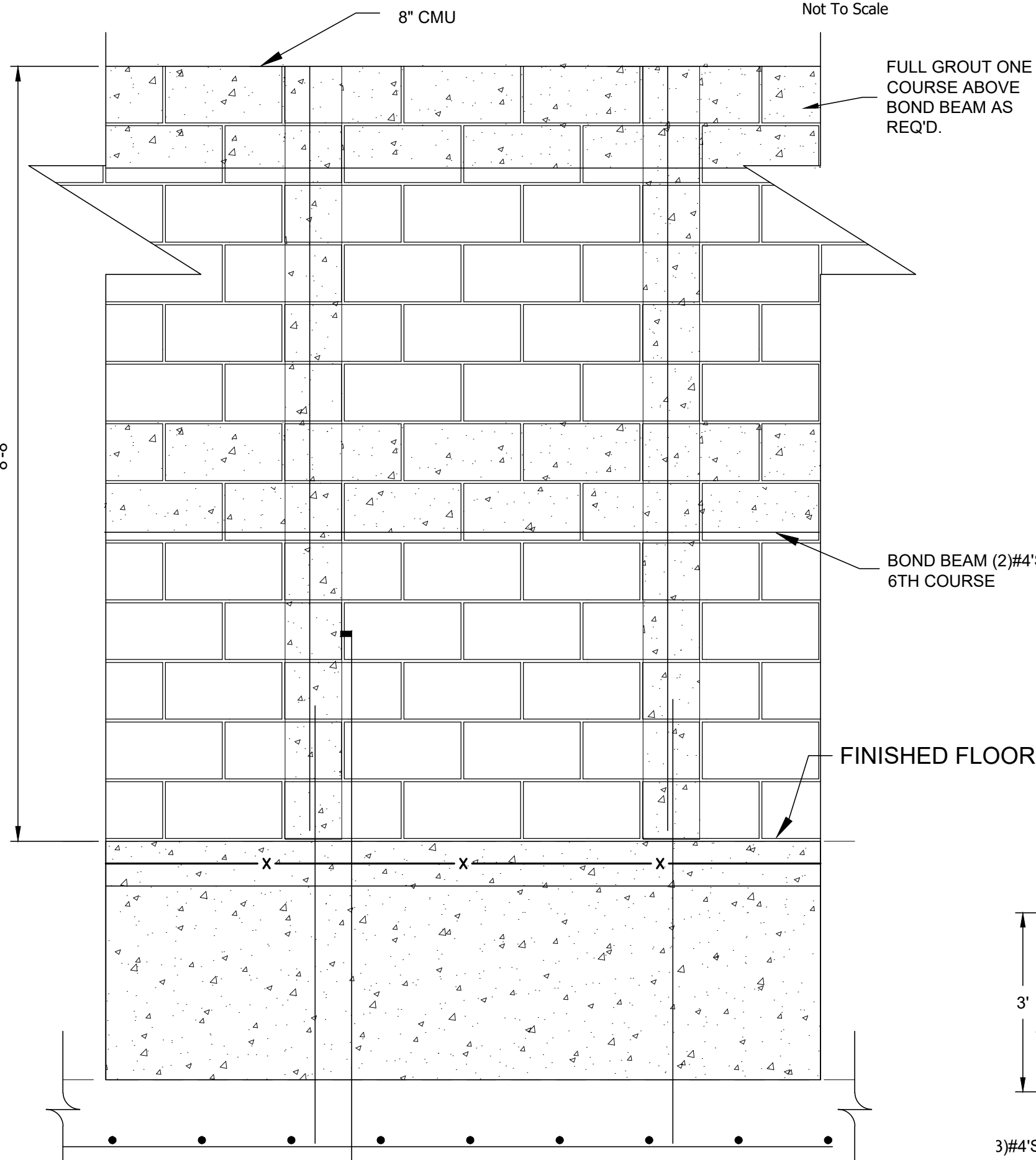


CORNER DETAIL



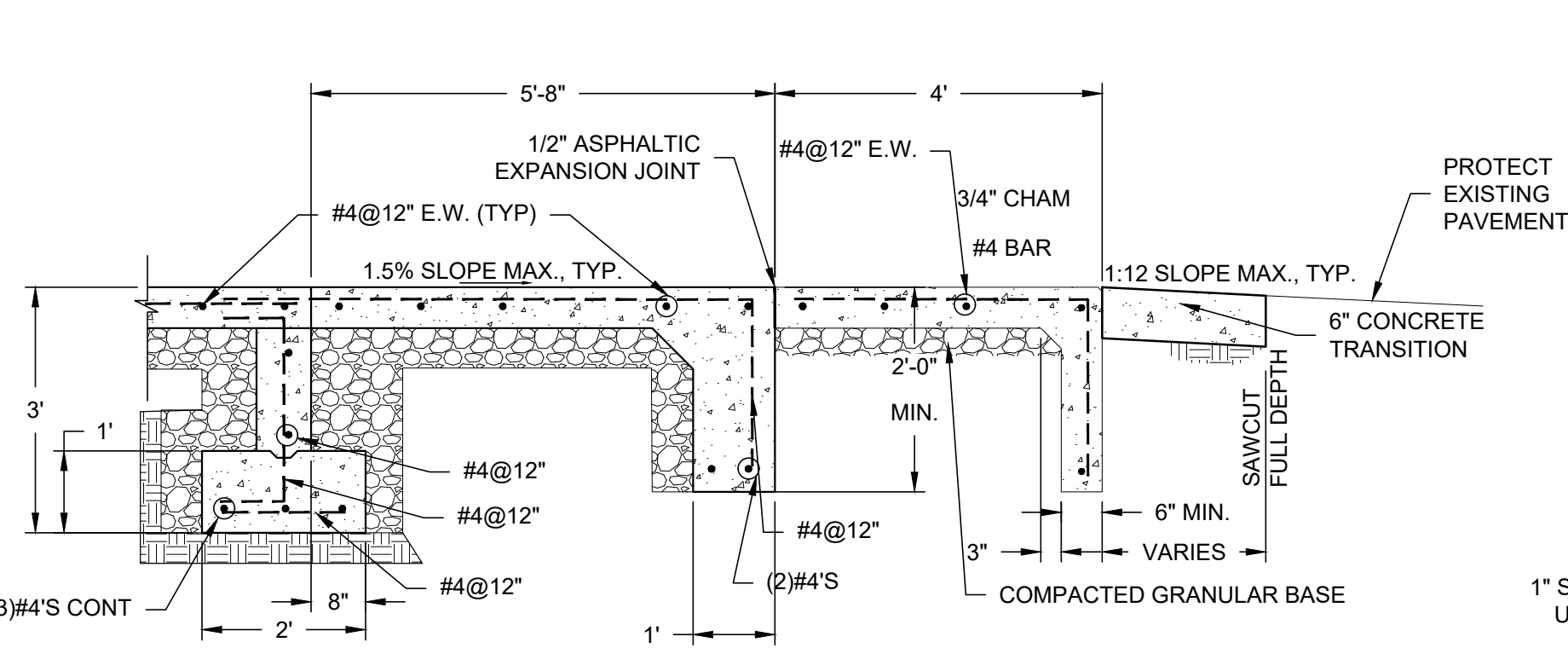
1 CMU WALL WALL DETAILS

SCALE: SCALE: 3/4"=1'-0"



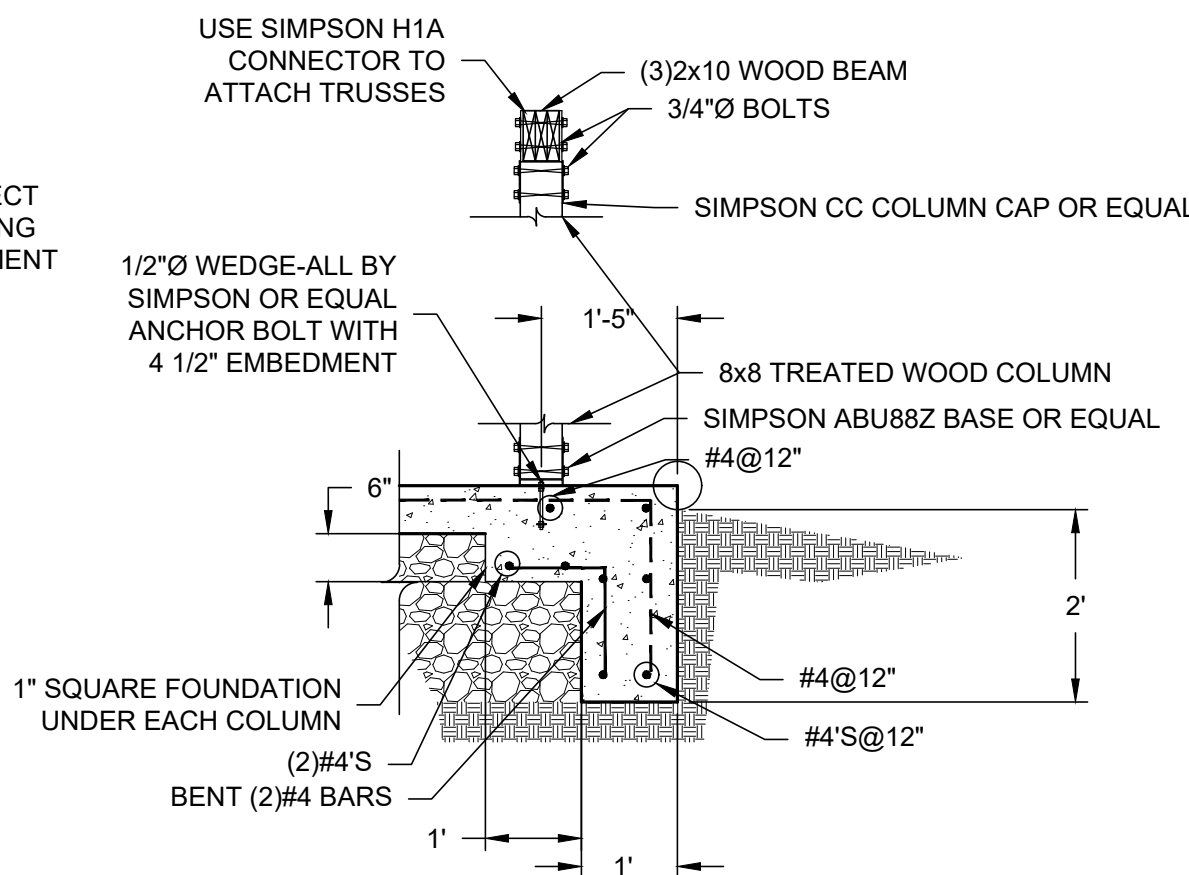
2 CMU WALL ELEVATION

SCALE: SCALE: 3/4"=1'-0"



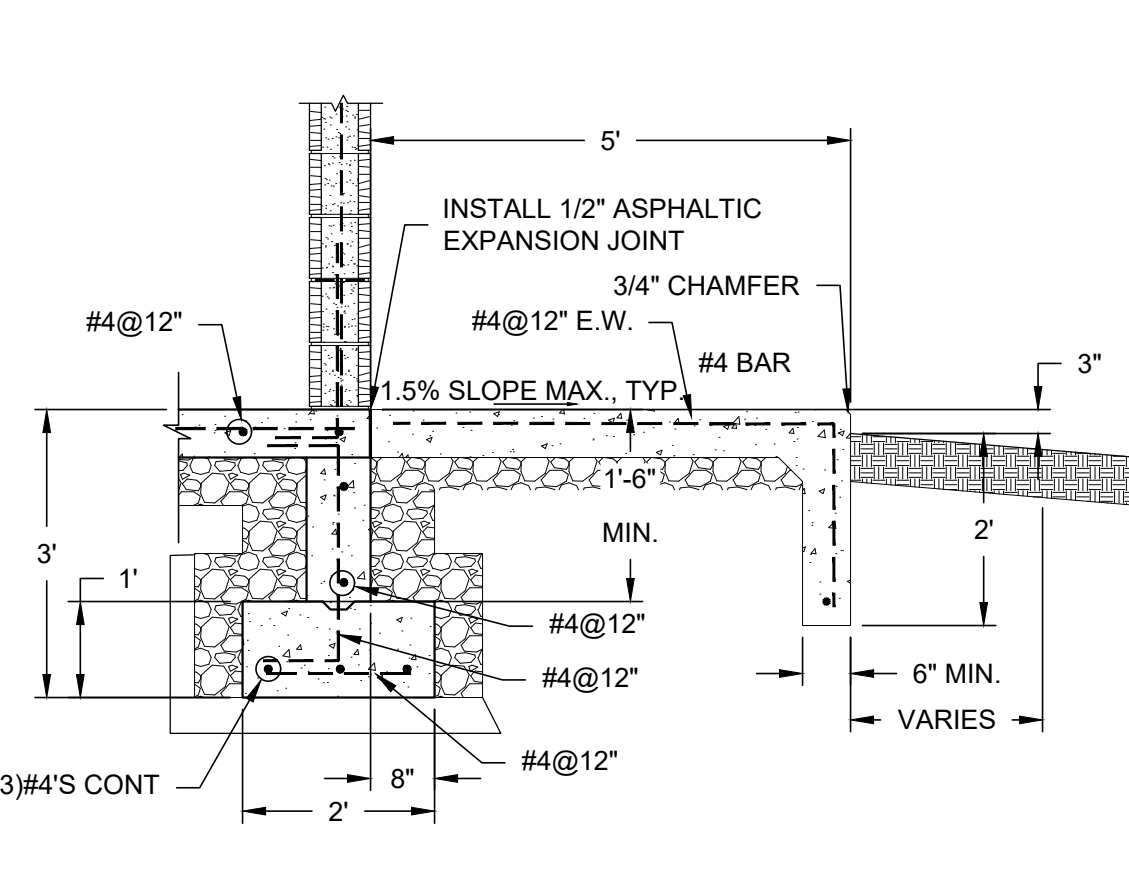
4 SECTION

SCALE: 1/2" = 1'-0"



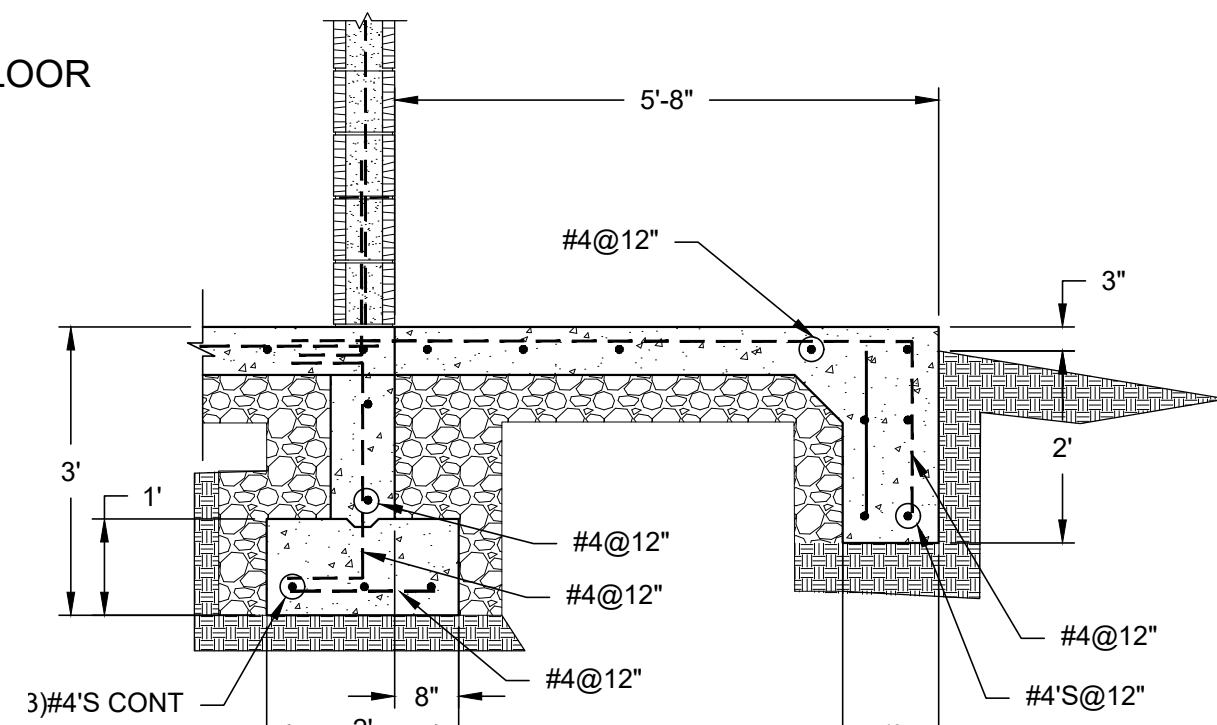
5 SECTION

SCALE: 1/2" = 1'-0"



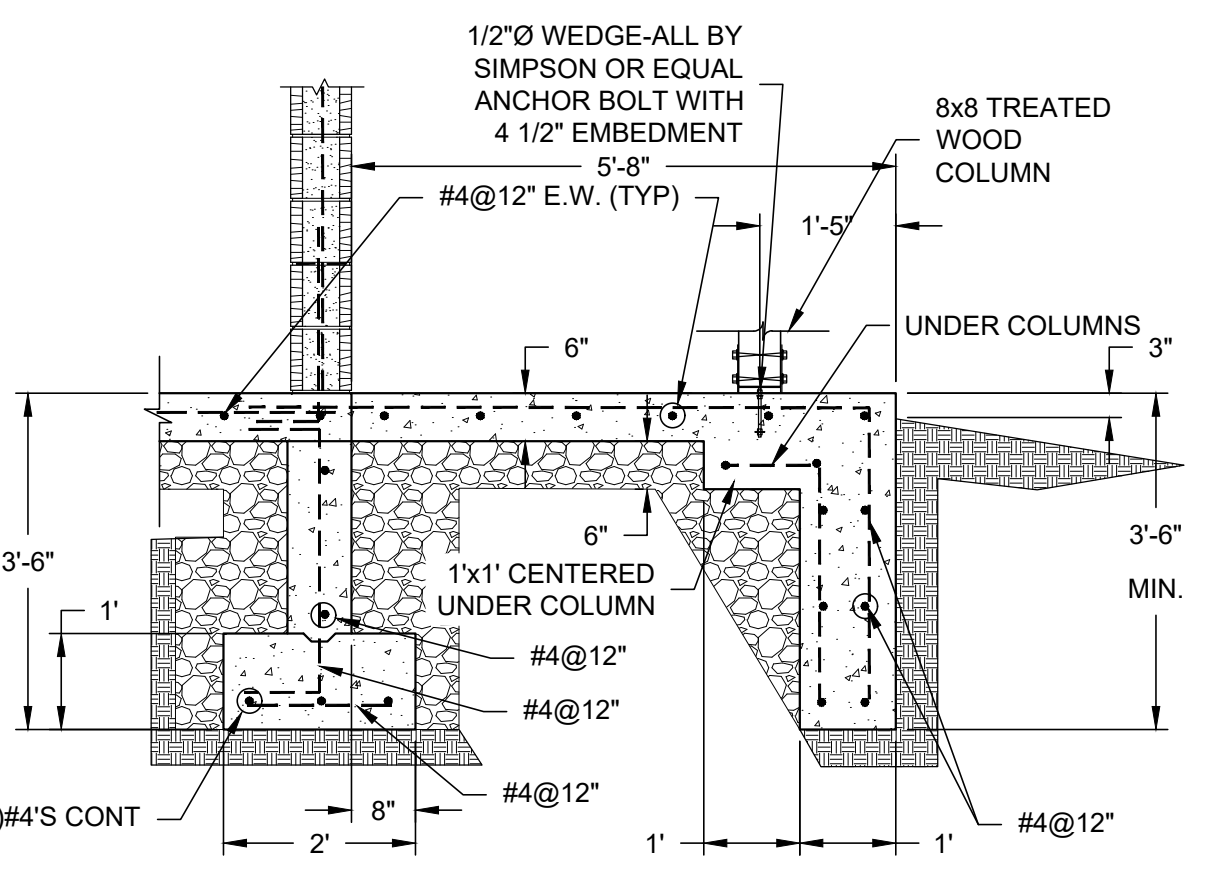
6 SECTION

SCALE: 1/2" = 1'-0"



7 SECTION

SCALE: 1/2" = 1'-0"



8 SECTION

SCALE: 1/2" = 1'-0"

CONVENTIONAL 2X FRAMING

1. LUMBER AND ITS FASTENINGS, SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATIONS OF STRESS-GRADE LUMBER AND ITS FASTENINGS, LATEST EDITION, AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
2. EXTERIOR WALLS ARE 2X4 #2 SYP. STUDS AND PLATES. STUD IS 12" O.C. UNO.
3. INTERIOR LOAD BEARING WALLS ON CMU ARE 2X4 SYP. STUD GRADE STUDS AND PLATES. SPACING IS 16" O.C. UNO.
4. INTERIOR NON-LOAD BEARING WALLS ARE 2X4 STUD GRADE STUDS AT 24" O.C. UNO.
5. 1/2" INDICATES LOAD BEARING WALLS.
6. 1/2" INDICATES NON-LOAD BEARING WALLS.
7. 1/2" INDICATES CMU WALLS.
8. MISC FRAMING MATERIAL (SILLS, CRIPPLES, ETC.) TO BE #2 SYP. UNO.
9. HEADER MATERIAL TO BE MINIMUM OF #2 SYP.
10. SHEATHING IS TO BE APA RATED STRUCTURAL SHEATHING (ALL EDGES TO BE BLOCKED)
11. MATERIALS MUST BE GRADE MARKED.
12. BOLT HOLES THROUGH WOOD SHALL BE DRILLED 1/16" MAXIMUM LARGER THAN THE DIAMETER OF THE BOLTS TO BE INSTALLED.
13. BOLTS THROUGH WOOD SHALL BE FITTED WITH STANDARD WASHERS AT HEAD AND NUT ENDS.
14. EXPOSED WOOD (WHEN SHOWN ON PLANS) SHALL BE TREATED AS FOLLOWS:
WOOD NOT IN CONTACT WITH GROUND 0.25 PCF
WOOD IN CONTACT WITH GROUND 0.40 PCF
15. SHEATHING IS TO BE 7/16" APA RATED STRUCTURAL SHEATHING (ALL EDGES TO BE BLOCKED)
16. SHEATHING IS TO BE ATTACHED USING 8D COMMON NAILS @ 6" O.C. (EDGE) AND 12" O.C. (INTERMEDIATE).
17. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING AND WALL HEIGHTS.
18. SHEATHING FOR ROOF TRUSSES TO BE 5/8" A-GRADE CDX PLYWOOD.

BAR SIZE	LENGTH OF LAPPED SPLICES FOR REINFORCEMENT, IN INCHES		LENGTH OF EMBEDMENT FOR END ANCHORAGE OF REINFORCEMENT WITH STD. HOOKS, IN INCHES	
	*TOP BARS	OTHERS	*TOP BARS	OTHERS
3	20	20	8	8
4	28	20	8	8
5	36	26	10	8
6	46	33	13	10
7	63	45	17	13
8	83	59	22	17
9	104	74	28	22
10	133	95	40	31
11	163	116	55	41
14	NOT PERMITTED		90	67
18	NOT PERMITTED		138	103

* TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE TO BE PROVIDED WITH LAPS AS REQUIRED FOR TOP BARS.

EXCEPT AS OTHERWISE INDICATED ON THE PLANS, EMBEDMENT LENGTHS FOR END ANCHORAGE AND LAPPED SPLICES SHALL NOT BE LESS THAN (NO MINUS TOLERANCE) SHOWN ABOVE.

LAPPED SPLICES SHALL NOT BE MADE AT POINTS OF MAXIMUM STRESS AS DETERMINED BY THE ENGINEER.

REINFORCING SPLICE, EMBEDMENT AND COVER REQUIREMENTS

CONCRETE COVER FOR REINFORCING

LOCATION	MINIMUM COVER
UNFORMED SURFACES ADJACENT TO EXCAVATION	3"
FORMED OR TOP SURFACES EXPOSED TO WEATHER OR SATURATED AIR, SUBMERGED OR IN CONTACT WITH EARTH	
#6 OR LARGER BARS	2"
#5 OR SMALLER BARS	1-1/2"
OTHER LOCATIONS	
BAR IN BEAMS OR GIRDERS, INCLUDING STIRRUPS AND COLUMN SPIRALS OR TIES	1-1/2"
#14 AND #18	1-1/2"
#11 AND SMALLER	3/4"

COVER FOR REINFORCING STEEL SHALL NOT BE LESS THAN THE MINIMUM GIVEN ABOVE (NO MINUS TOLERANCE), AND SHALL NOT EXCEED THE MINIMUM BY MORE THAN 1/4 INCH WHERE THE CONCRETE THICKNESS IS 24" OR LESS, OR MORE THAN 1/2 INCH WHERE THE CONCRETE THICKNESS IS MORE THAN 24 INCHES.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 10/24/2025

CAD DWG FILE: S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:
STRUCTURAL
DETAILS LOOP #1

SHEET NUMBER:

S-105.A

51 OF 71 SHEETS
10/24/2025

10-24-2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE:S-FP-01.dwg
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

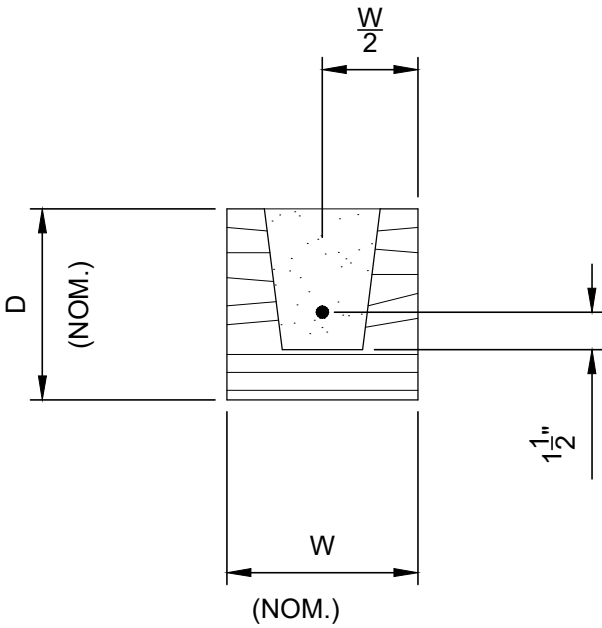
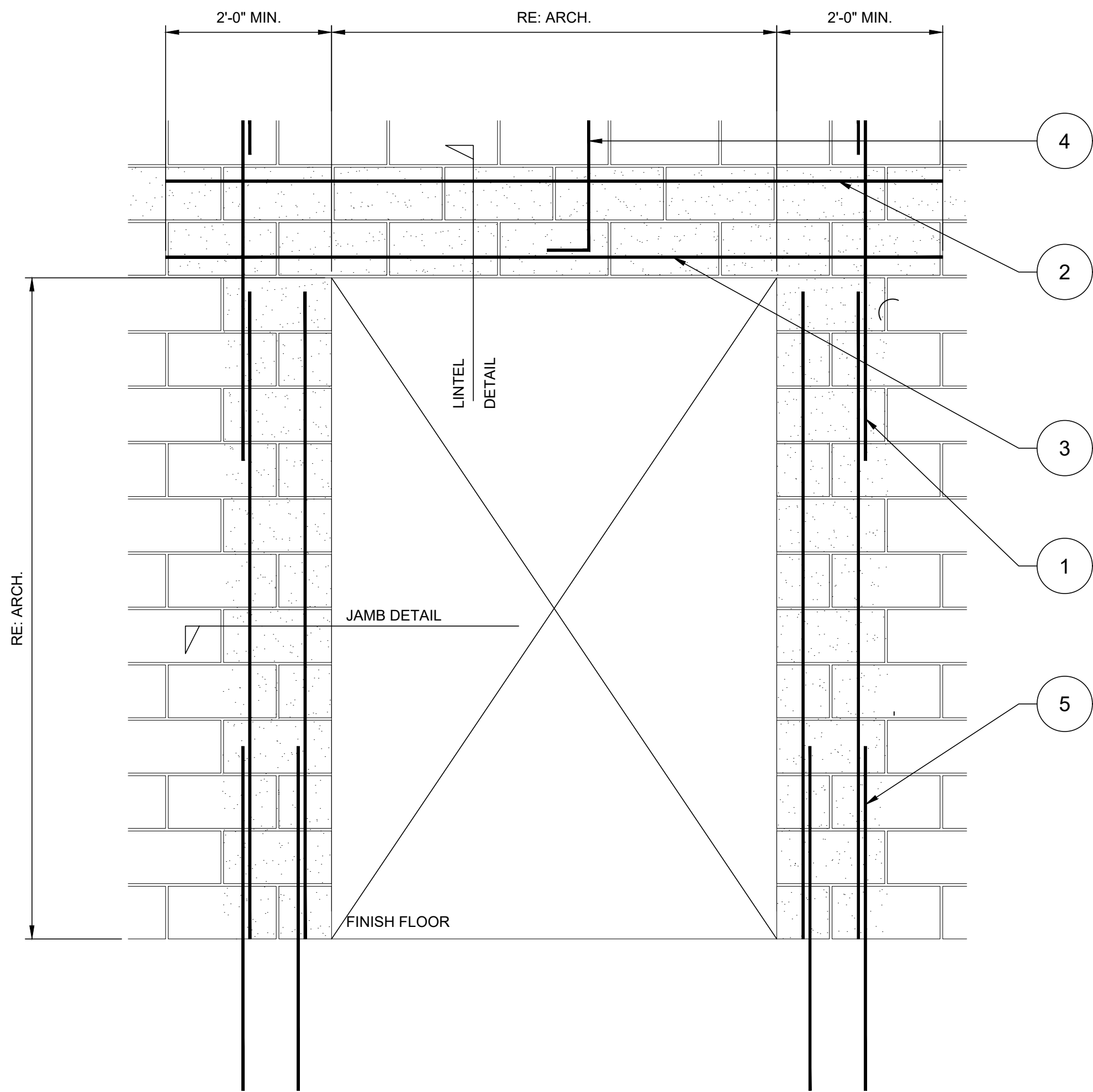
SHEET TITLE:

STRUCTURAL
DETAILS LOOP #1

SHEET NUMBER:

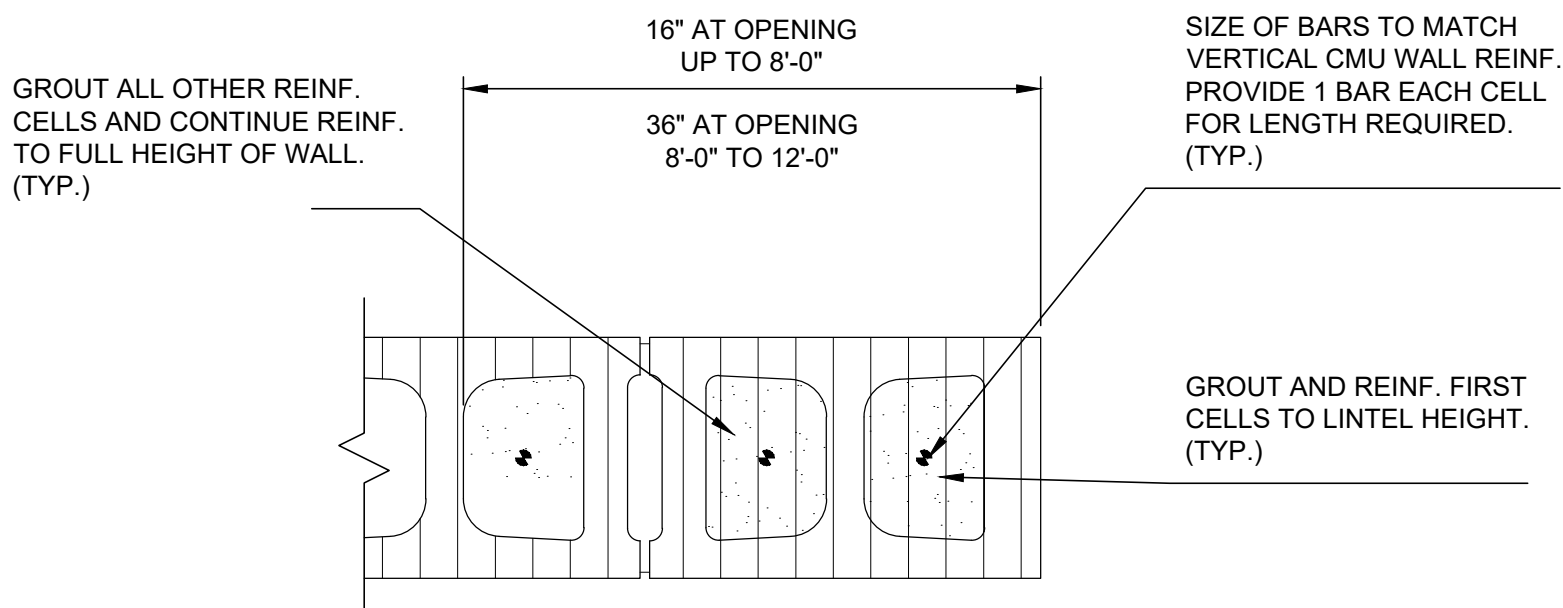
S-106.A

52 OF 71 SHEETS
10/24/2025



CMU LINTEL DETAIL

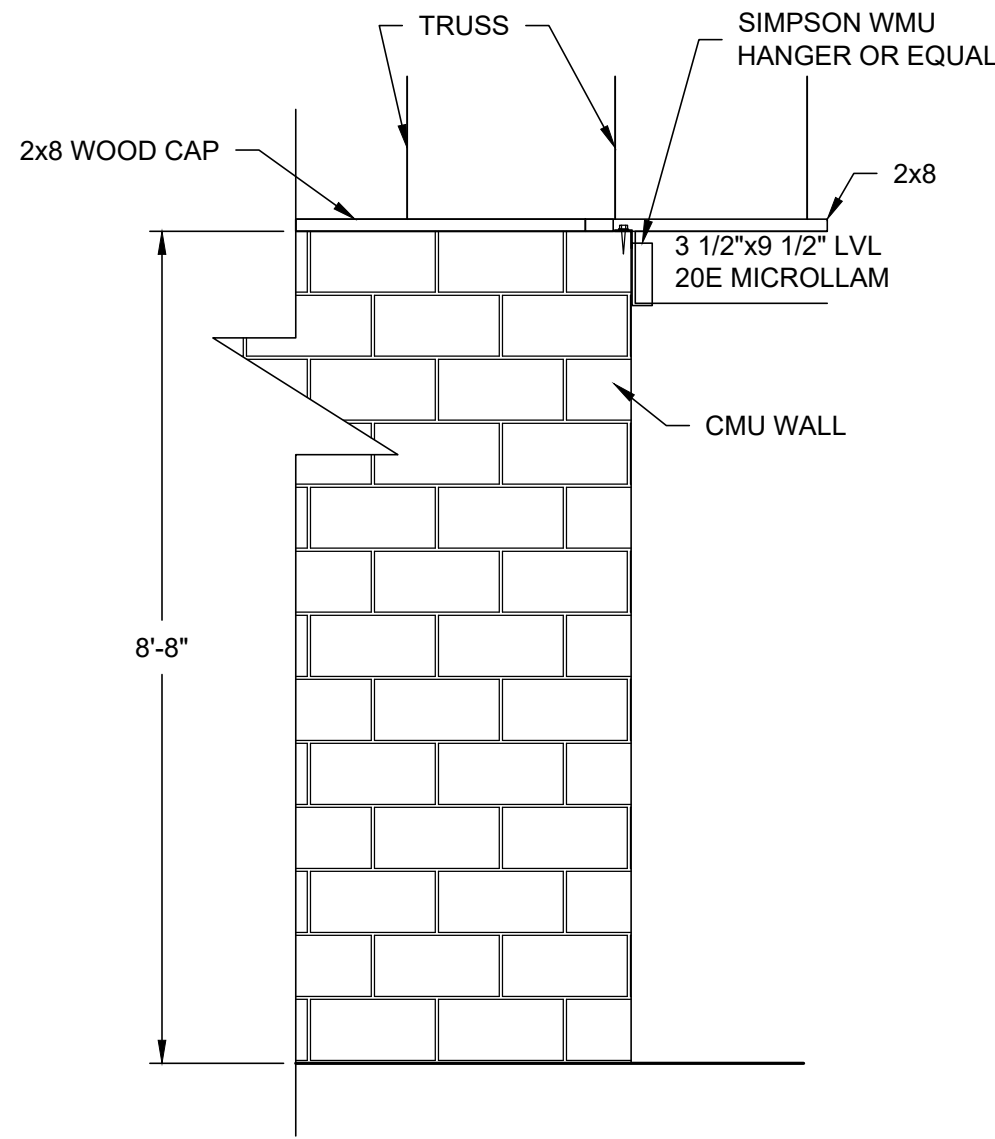
(ML) CMU LINTEL SCHEDULE					
WIDTH (W)	CLEAR SPAN	DEPTH (D)	BOTTOM REINF.	TOP REINF.	STIRRUPS AND SPACING
8"	UP TO 6'-0"	8"	#4	---	-----



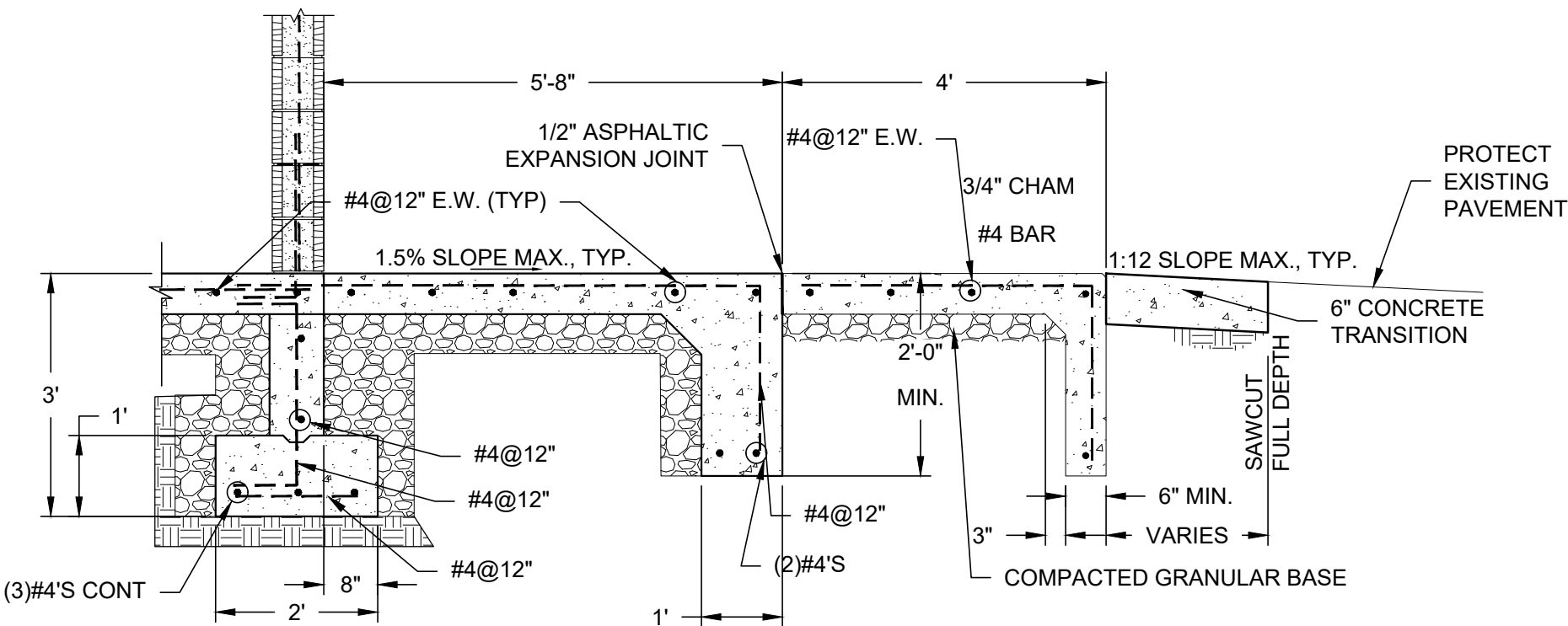
JAMB DETAIL

- NOTES:
1. REFER TO CMU WALL REINFORCING DIAGRAM FOR SPLICES IN VERTICAL REINF.
 2. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" (3'-0" FOR #7 BARS) BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINFORCING AND 1'-4" FOR HOOKED LINTEL REINFORCEMENT WITH STANDARD ACI HOOK.
 3. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS.
 4. CONTINUE VERTICAL WALL REINFORCING OVER OPENING. ANCHOR VERTICAL REINFORCING INTO STANDARD ACI HOOK.
 5. PROVIDE MATCHING DOWELS AT ALL VERTICAL REINFORCING LOCATIONS.

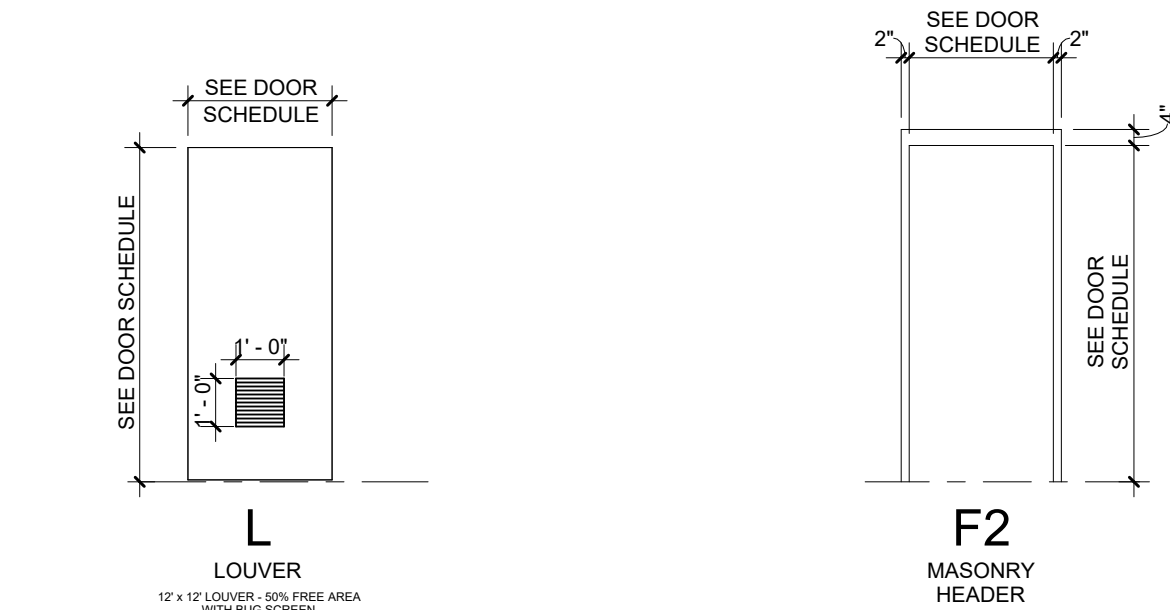
1 ADDITIONAL REINFORCING AT OPENINGS
SCALE: 3/4"=1'-0"



2 LVL TO CMU SECTION
SCALE: 1/2" = 1'-0"



3 SECTION
SCALE: 1/2" = 1'-0"



DOOR TYPE LEGEND

NTS

DOOR FRAME LEGEND

NTS

DOOR HARDWARE GROUPS

SET 1: RESTROOM/SHOWER

- 3 EA BUTT HINGES
- 1 EA DEADBOLT WITH OUTSIDE OCCUPANCY INDICATOR; KEYED EXTERIOR
- 1 EA DOOR PULL AND PUSH PLATE
- 1 EA CLOSER WITH HOLD OPEN
- 1 EA WALL STOP
- 1 EA ADA THRESHOLD
- 1 EA DOOR SWEEP WITH NEOPRENE SEAL
- 1 EA WEATHERSTRIPPING

SET 2: MECH ROOM

- 3 EA BUTT HINGES
- 1 EA KEYPAD ENTRY CYLINDRICAL LOCKSET- BATTERY POWERED
- 1 EA CLOSER WITH HOLD OPEN
- 1 EA WALL STOP
- 1 EA ADA THRESHOLD
- 1 EA DOOR SWEEP WITH NEOPRENE SEAL
- 1 EA WEATHERSTRIPPING

PARTITION TYPE GENERAL NOTES

- EXTERIOR WALL CONSTRUCTION IS DESCRIBED IN WALL SECTIONS. INTERIOR WALL TYPES ARE DESCRIBED BY THEIR DENOTED WALL TYPE TAGS.
- ANY WALL CONSTRUCTION NOT NOTED WITH A PARTITION TYPE WALL TAG SHALL BE CLARIFIED FOR INTERPRETATION BY THE ARCHITECT PRIOR TO BIDDING.
- WALL TYPE INDICATES PRIMARY WALL ASSEMBLY ONLY. OVERLAIN VENEERS, WAINSCOT, PLASTER, PAINT, AND WALL COVERINGS ARE INDICATED ON FLOOR PLANS, FINISH PLANS, INTERIOR ELEVATIONS. REFER TO MEP ENGINEERING DRAWINGS FOR LOCATIONS OF EXISTING AND NEW BUILDING SYSTEMS. SOME WALL FRAMING AND BRACING MAY REQUIRE ADJUSTMENT OR RE-LOCATION TO ALLOW FOR DUCT AND PIPE ROUTING.
- THE CONTRACTOR SHALL COORDINATE WALL FRAMING ABOVE FINISHED CEILINGS WITH FRAMING, PLUMBING, AND HVAC CONTRACTORS. THE FRAMING CONTRACTOR SHALL PROVIDE THE NECESSARY ROUGH OPENING FRAMING REQUIRED TO FACILITATE BUILDING SYSTEM PENETRATIONS.
- ASSEMBLIES SHALL BE AIRTIGHT. SEAL ALL PENETRATIONS AND CRACKS WITH ACOUSTICAL SEALANT IN NON-RATED PARTITIONS. PROVIDE FIRE RATED SEALANT AT CRACKS IN FIRE RATED PARTITIONS. PROVIDE FIRE RATED SEALANT AT THE TOP AND BOTTOM OF PARTITIONS.
- RECESSED FIXTURES SUCH AS OUTLETS SHALL NOT BE PLACED BACK TO BACK IN THE SAME STUD CAVITY.
- PROVIDE WOOD BLOCKING FOR ALL ACCESSORIES, EQUIPMENT, AND CASEWORK. SEE PLANS FOR LOCATIONS.
- FOR ALL RATED ASSEMBLIES - PARTITION DETAILS ON THIS SHEET ARE INTENDED TO ILLUSTRATE BASIC WALL ASSEMBLY. REFER TO UL LISTING DETAILS FOR SPECIFIC INSTRUCTION REGARDING ATTACHMENT, MATERIAL AND MANUFACTURER SELECTION, ETC.

KEYNOTE LEGEND

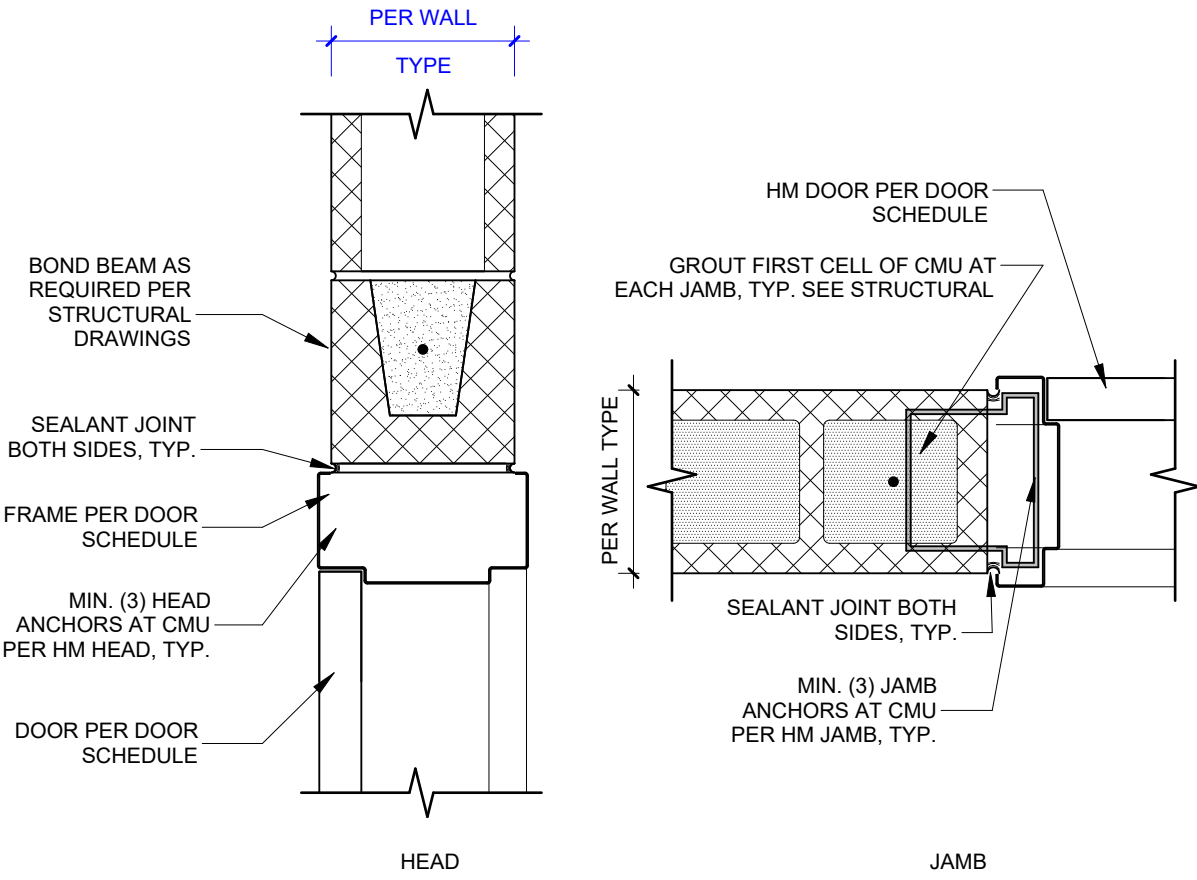
06.117	STRUCTURAL WOOD COLUMN. SEE STRUCTURAL.
10.441	SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.
12.511	BENCH, 0'0".
22.300	WATER HEATER. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
22.470	DRINKING FOUNTAIN. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
26.240	PANELBOARDS. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.

WALL SCHEDULE

0.01	8" GROUND FACE CMU RUNNING BOND BASIS OF DESIGN TRENDSTONE BLOCK BATON ROUGE
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BRARRIER OVER WALL SHEATHING OVER GABLE END TRUSS

FLOOR PLAN GENERAL NOTES

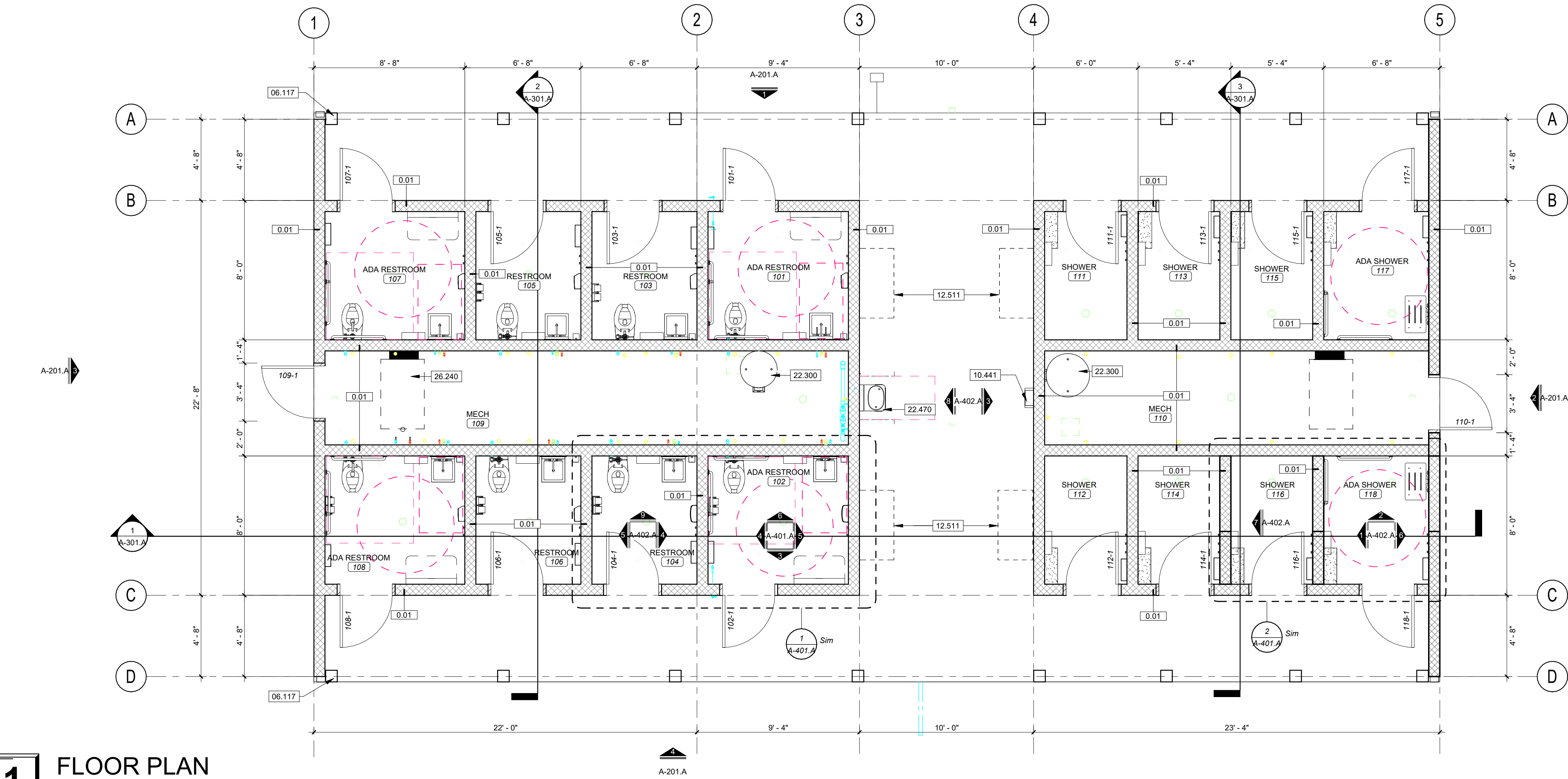
- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS. FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. DIMENSIONS OF EXISTING STRUCTURE ARE NOTED +/- AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES IN WRITING.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK CONTRACTOR TO PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING.
- PROVIDE SOLID WOOD BLOCKING AS REQUIRED TO INSTALL EQUIPMENT AND CASEWORK. VERIFY WITH OWNER FOR ALL ADDITIONAL OWNER FURNISHED ITEMS THAT REQUIRE BLOCKING.
- BUILDING IS TO BE STAKED OUT ON SITE BY A REGISTERED LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION TO VERIFY THAT NO CONFLICTS EXIST BETWEEN PROPOSED CONSTRUCTION AND PROPERTY SETBACKS, EASEMENTS, EXISTING STRUCTURES, OR OTHER PHYSICAL OBJECTS ON SITE. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY CONFLICTS OR VARIATIONS FROM PLANS.
- SEE STRUCTURAL DRAWINGS FOR ALL HEADER, BOND BEAM, LINTEL, COLUMN, AND OTHER STRUCTURAL REQUIREMENTS.
- SEE CODE COMPLIANCE PLAN FOR FIRE EXTINGUISHER AND SIGNAGE REQUIREMENTS AND LOCATIONS.
- FINISH FLOOR ELEVATION INDICATED ON ARCHITECTURAL DRAWINGS IS AT ELEVATION 100'-0". SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.



2 HM DOOR FRAME @ CMU.

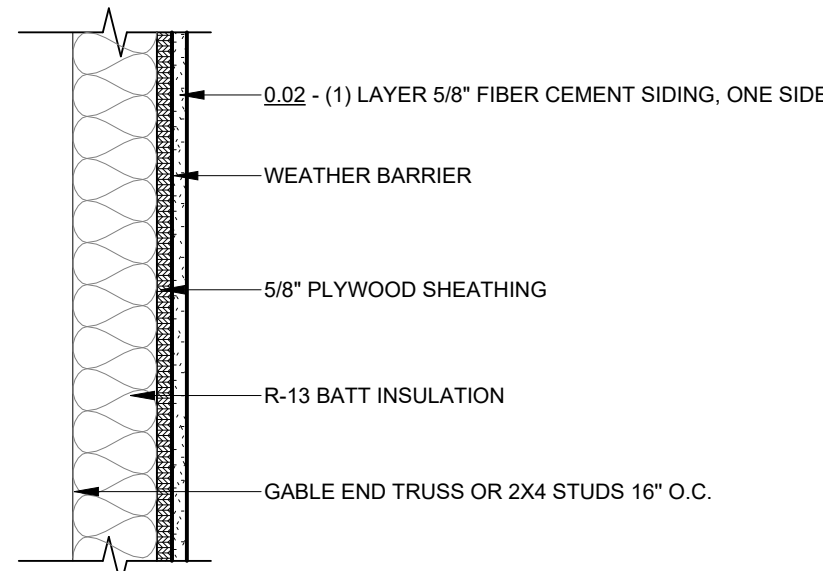
SCALE 1 1/2" = 1'-0"

DOOR AND FRAME SCHEDULE													
DOOR NO.	DOOR								FRAME			Hardware Set	
	OPENING		CONFIG	PANEL				FINISH	TYPE	MATL	FINISH		
	WIDTH	HEIGHT		PANEL WIDTH	THICK	TYPE	MATL						
101-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
102-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
103-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
104-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
105-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
106-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
107-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
108-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
109-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	2	
110-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	2	
111-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
112-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
113-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
114-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
115-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
116-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
117-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	
118-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	L	HM	PNT	F2	HM	PNT	1	



1 FLOOR PLAN

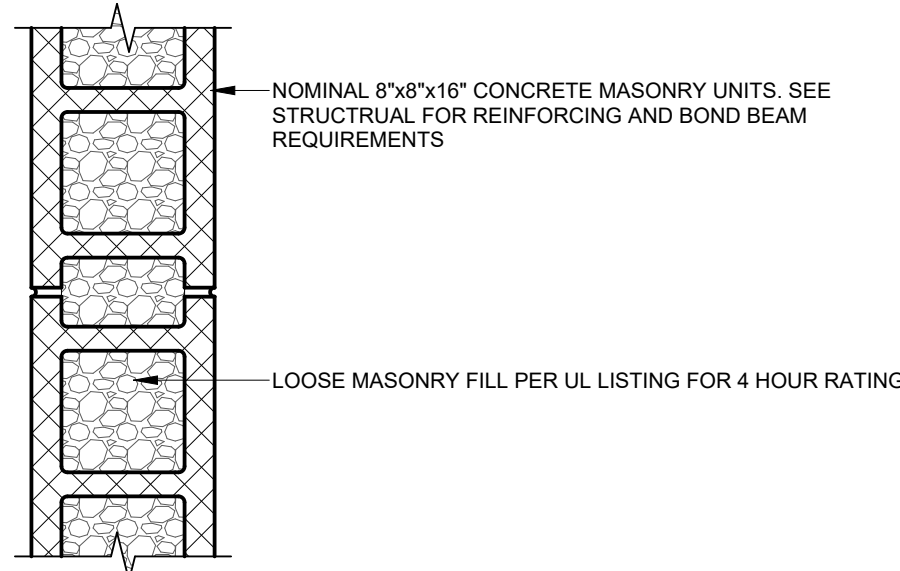
SCALE 1/4" = 1'-0"



PTN. TYPE	RATING	WIDTH	NOTES
0.02	-	4 3/4"	-

INTERIOR PARTITION #.02.

NTS

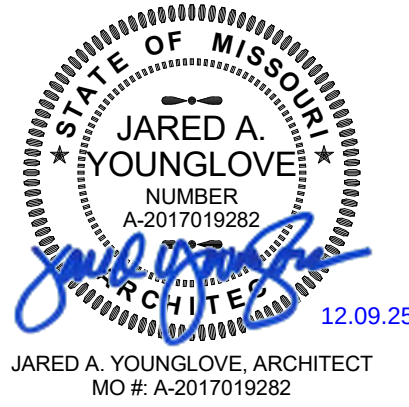


PTN. TYPE	RATING	WIDTH	NOTES
0.01	-	7 5/8"	-

INTERIOR PARTITION #.01.

NTS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-200000000
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC, AND SHALL BE USED ONLY FOR THE
PROJECT REFERENCE BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
FLOOR PLAN

SHEET NUMBER:

A-101.A

53 OF 71 SHEETS

10/24/2025



COPYRIGHT 2025
THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC, AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

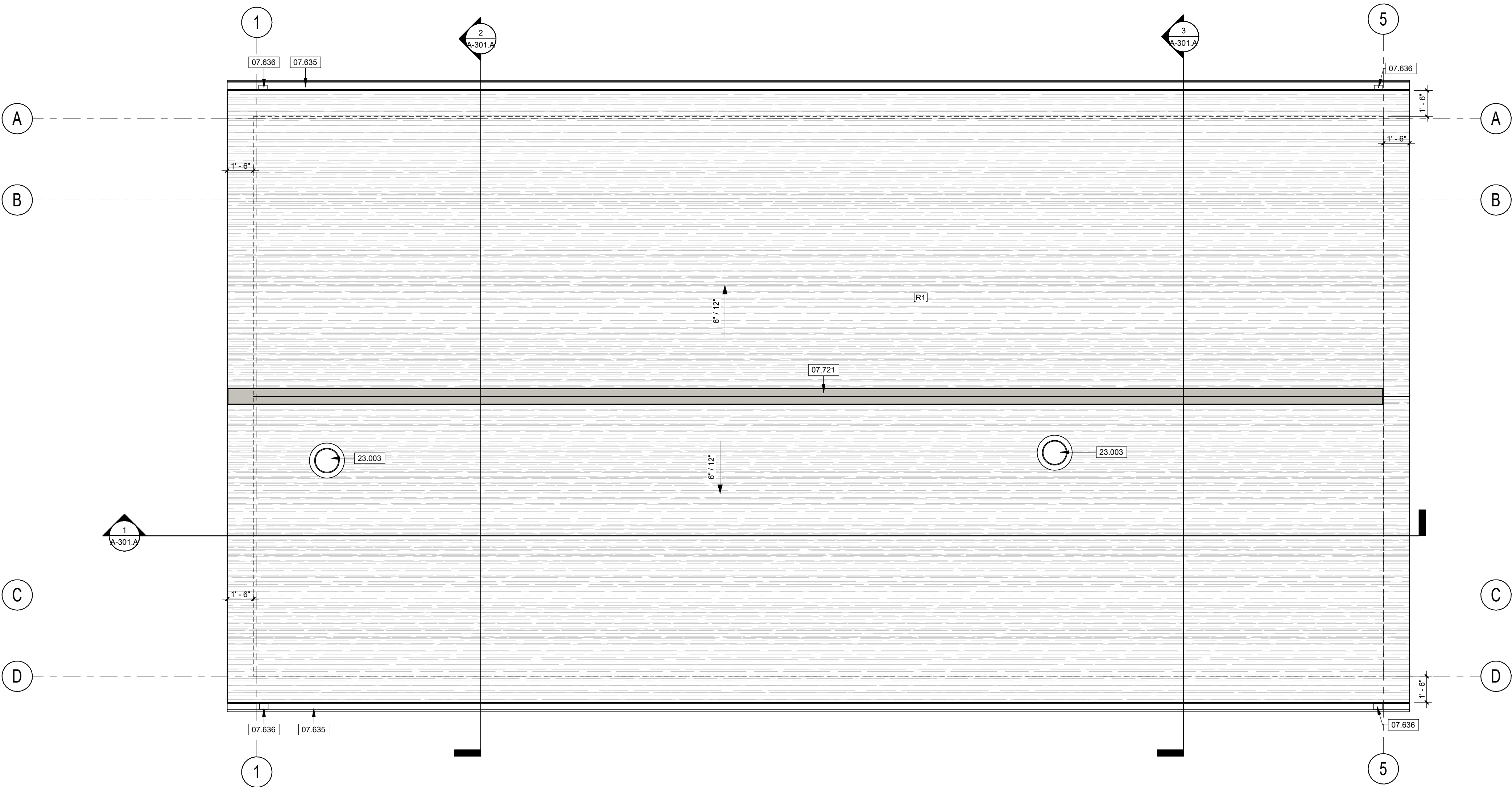
PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
ROOF PLAN

SHEET NUMBER:
A-102.A
54 OF 71 SHEETS
10/24/2025

KEYNOTE LEGEND

07.635	6" X 6" CLASSIC GUTTER WITH SLOPED STRAPS AT 24" O.C. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.636	5" DIAMETER PREFINISHED DOWNSPOUT. PROVIDE CONCRETE SPLASH BLOCK AT GRADE. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.721	RIDGE VENT. SEE SECTION 07.7200 ROOF ACCESSORIES.
23.003	HVAC EXHAUST FAN. SEE DIVISION 23.0000 SPECIFICATIONS.



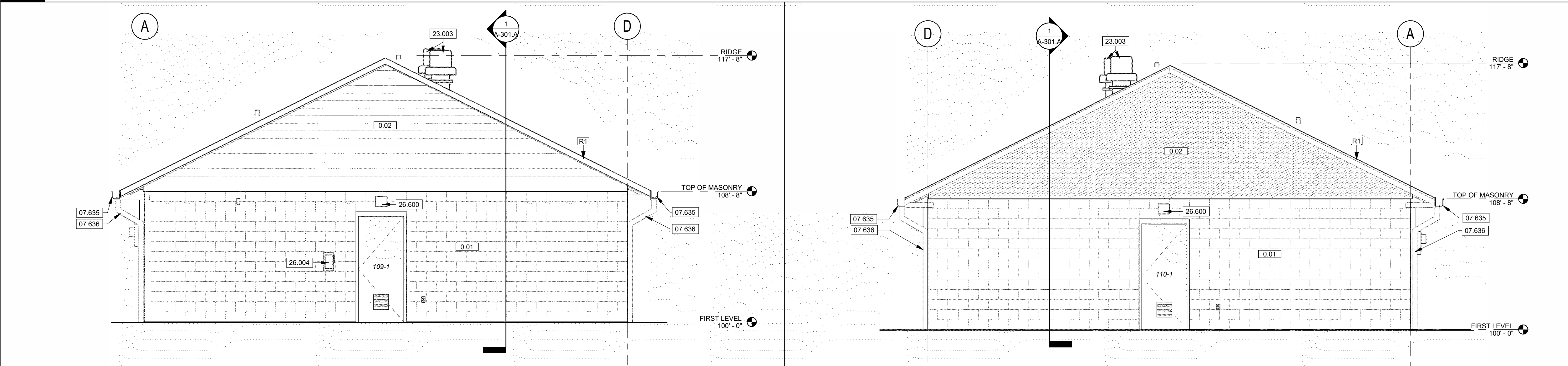
ROOF SCHEDULE

R1	#30 ASPHALT SHINGLE OVER FELT WITH 48" WIDE ICE AND WATER SHIELD AT ALL ROOF EDGES, RIDGES, VALLEYS, AND ALL VERTICAL WALL TO ROOF INTERSECTIONS OVER ROOF SHEATHING OVER TRUSSES
----	---

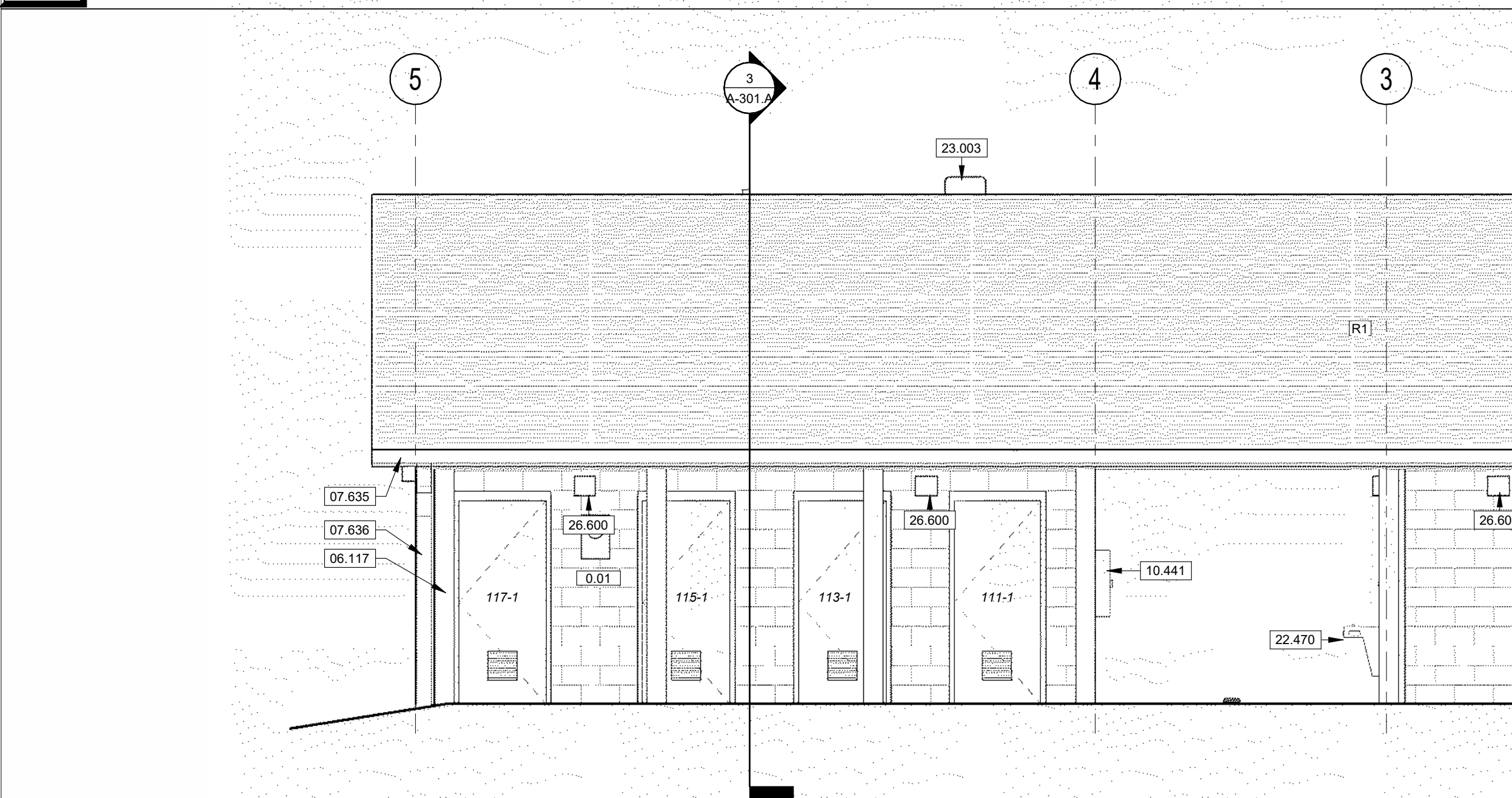
ROOF PLAN GENERAL NOTES

- ALL ROOF MATERIALS TO BE COMPLIANT WITH MANUFACTURER'S ROOF WARRANTY.
- ALL ROOF TERMINATIONS AND FLASHING CONDITIONS SHALL CONFORM WITH MANUFACTURERS RECOMMENDATIONS.
- ALL PENETRATIONS OF VENTS SHALL CONFORM WITH MANUFACTURER'S RECOMMENDED DETAILS AND COMPLIANT WITH ROOF WARRANTY REQUIREMENTS.
- REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION AND ROOF PENETRATION REQUIREMENTS.

4 WEST EXTERIOR ELEVATION.
SCALE 1/4" = 1'-0"



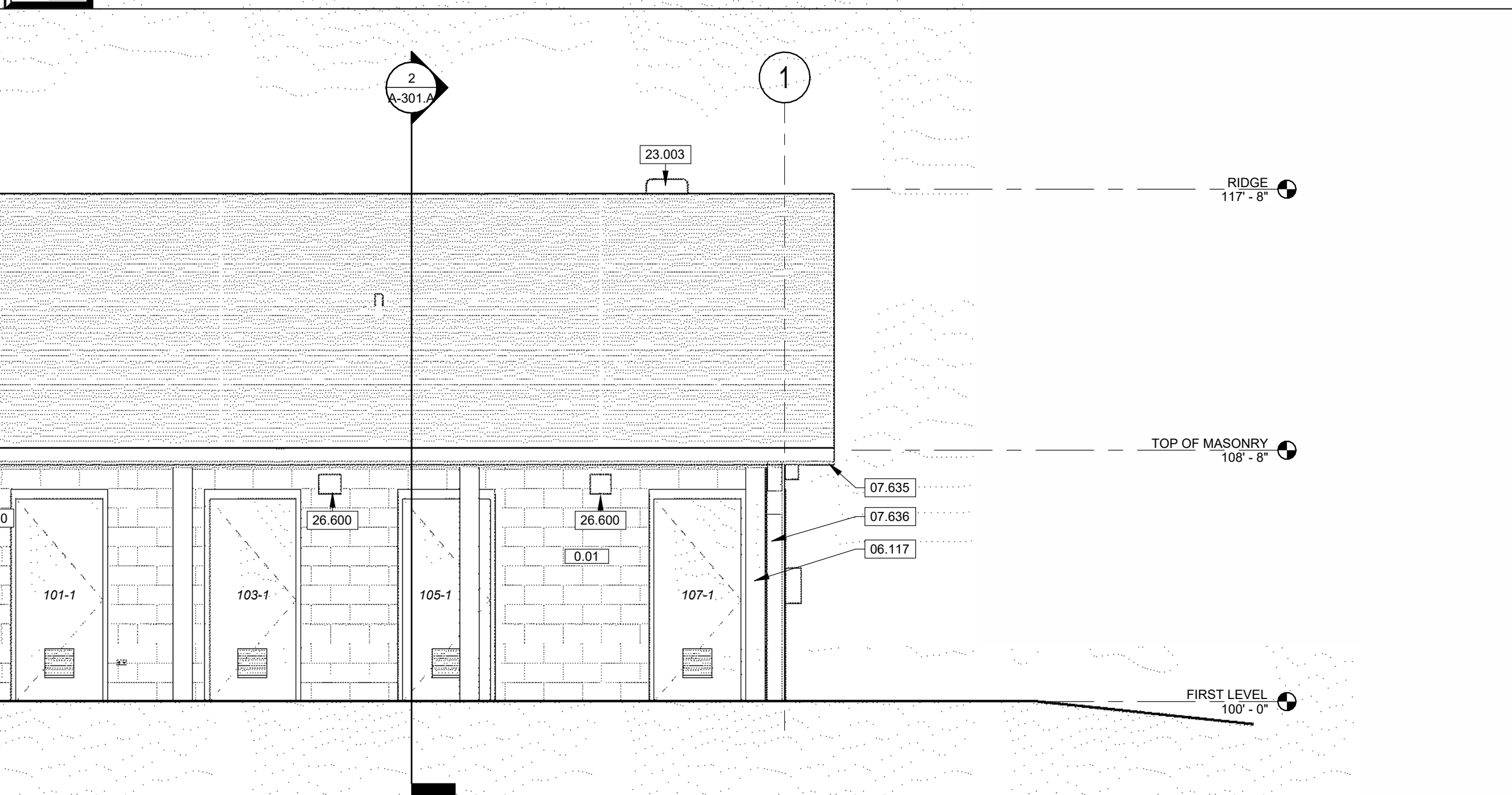
3 NORTH EXTERIOR ELEVATION.
SCALE 1/4" = 1'-0"



1 EAST EXTERIOR ELEVATION.
SCALE 1/4" = 1'-0"



2 SOUTH EXTERIOR ELEVATION.
SCALE 1/4" = 1'-0"



KEYNOTE LEGEND	
06.117	STRUCTURAL WOOD COLUMN. SEE STRUCTURAL.
07.635	6" X 6" CLASSIC GUTTER WITH SLOPED STRAPS AT 24" O.C. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.636	5" DIAMETER PREFINISHED DOWNSPOUT. PROVIDE CONCRETE SPLASH BLOCK AT GRADE. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
10.441	SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.
22.470	DRINKING FOUNTAIN. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
23.003	HVAC EXHAUST FAN. SEE DIVISION 23.0000 SPECIFICATIONS.
26.004	ELECTRICAL EQUIPMENT. SEE MEP.
26.600	EXTERIOR LIGHTING. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.

ROOF SCHEDULE	
R1	#30 ASPHALT SHINGLE OVER FELT WITH 48" WIDE ICE AND WATER SHIELD AT ALL ROOF EDGES, RIDGES, VALLEYS, AND ALL VERTICAL WALL TO ROOF INTERSECTIONS OVER ROOF SHEATHING OVER TRUSSES

WALL SCHEDULE	
0.01	8" GROUND FACE CMU RUNNING BOND BASIS OF DESIGN TRENDSTONE BLOCK BATON ROUGE
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BARRIER OVER WALL SHEATHING OVER GABLE END TRUSS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, L.L.C. AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

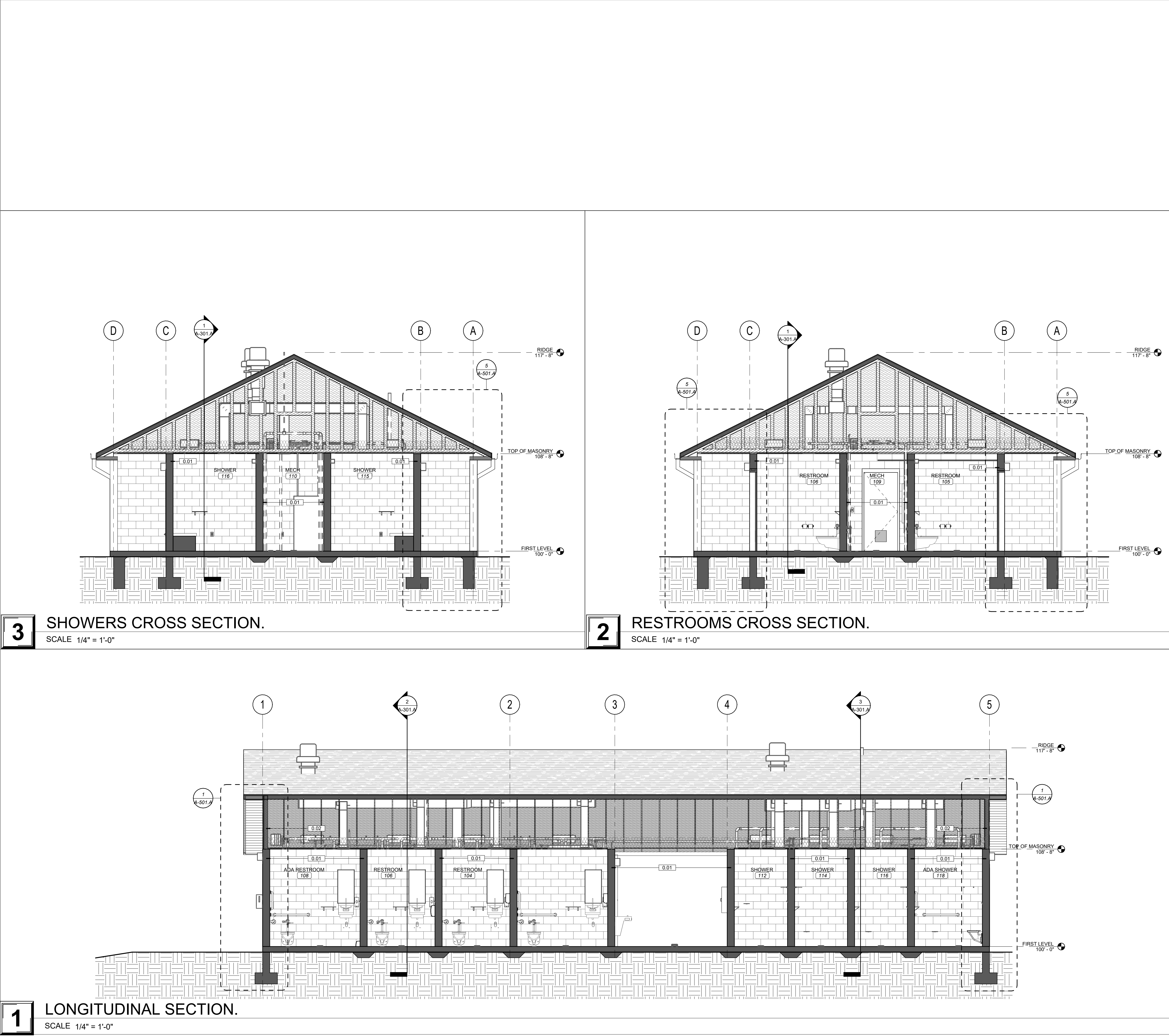
REVISION SCHEDULE

ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
EXTERIOR
ELEVATIONS

SHEET NUMBER:
A-201.A
55 OF 71 SHEETS
10/24/2025



WALL SCHEDULE	
0.01	8" GROUND FACE CMU RUNNING BOND BASIS OF DESIGN TRENDSTONE BLOCK BATON ROUGE
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BARRIER OVER WALL SHEATHING OVER GABLE END TRUSS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

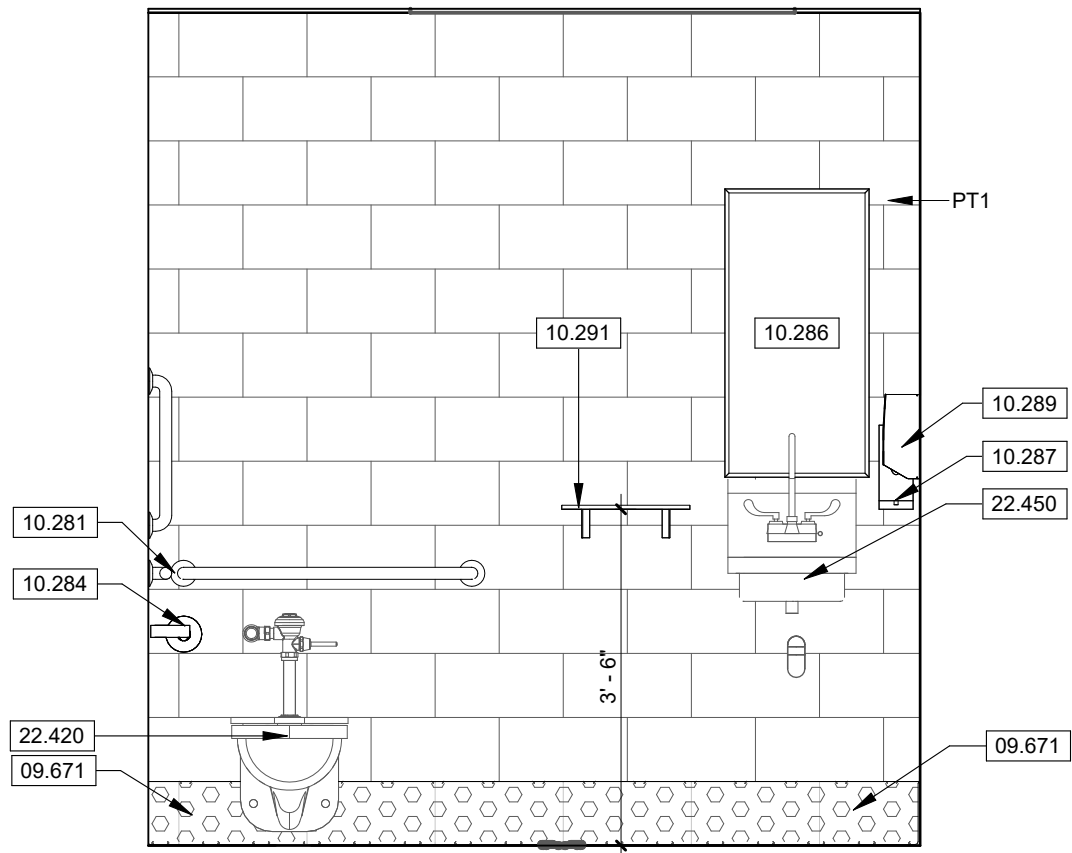
REVISION SCHEDULE

ISSUE DATE: 10/24/2025

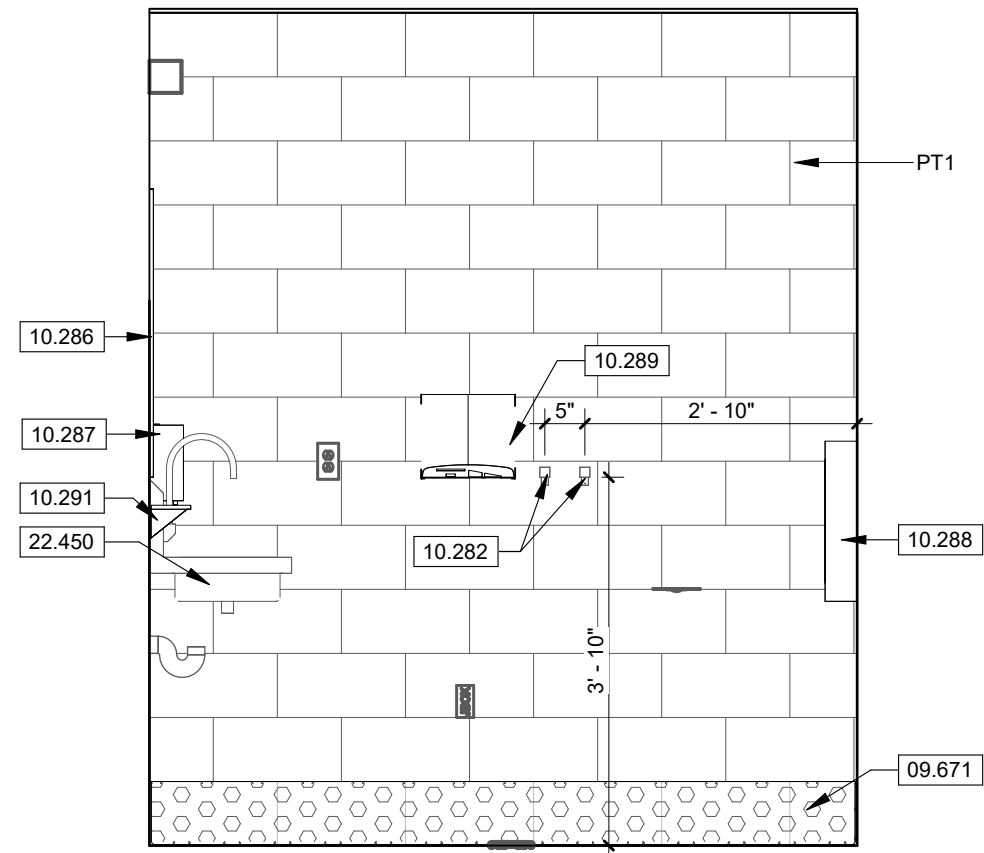
PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
BUILDING
SECTIONS

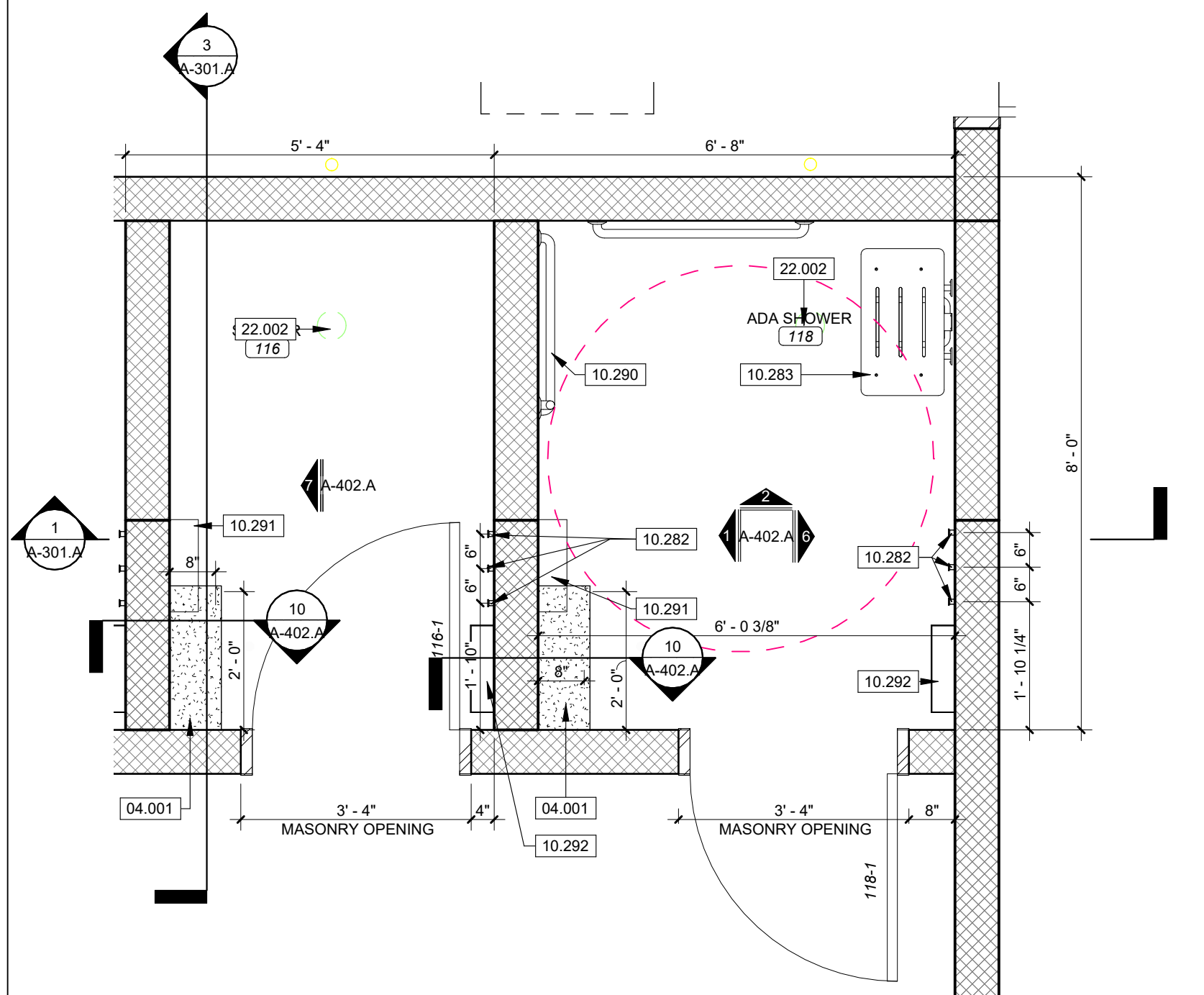
SHEET NUMBER:
A-301.A
56 OF 71 SHEETS
10/24/2025



6 TYP. ADA RR WET WALL
SCALE 1/2" = 1'-0"

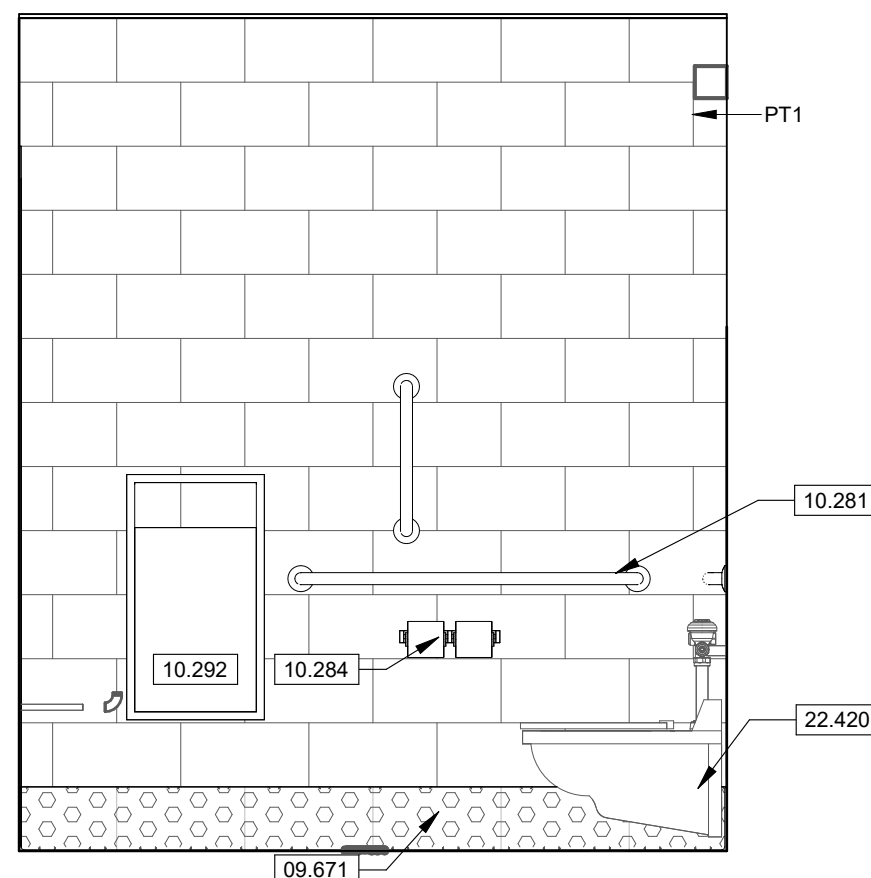


5 TYP. ADA RR HAND DRYER
SCALE 1/2" = 1'-0"

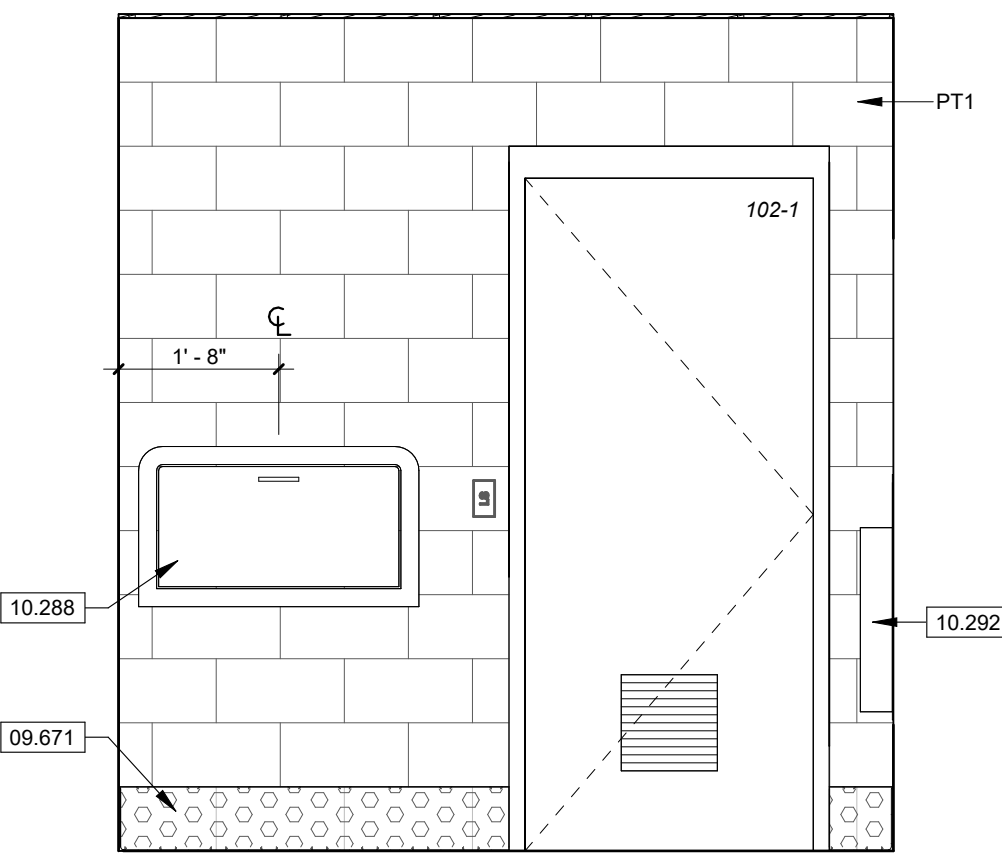


2 TYPICAL + ADA SHOWER ENLARGED PLAN
SCALE 1/2" = 1'-0"

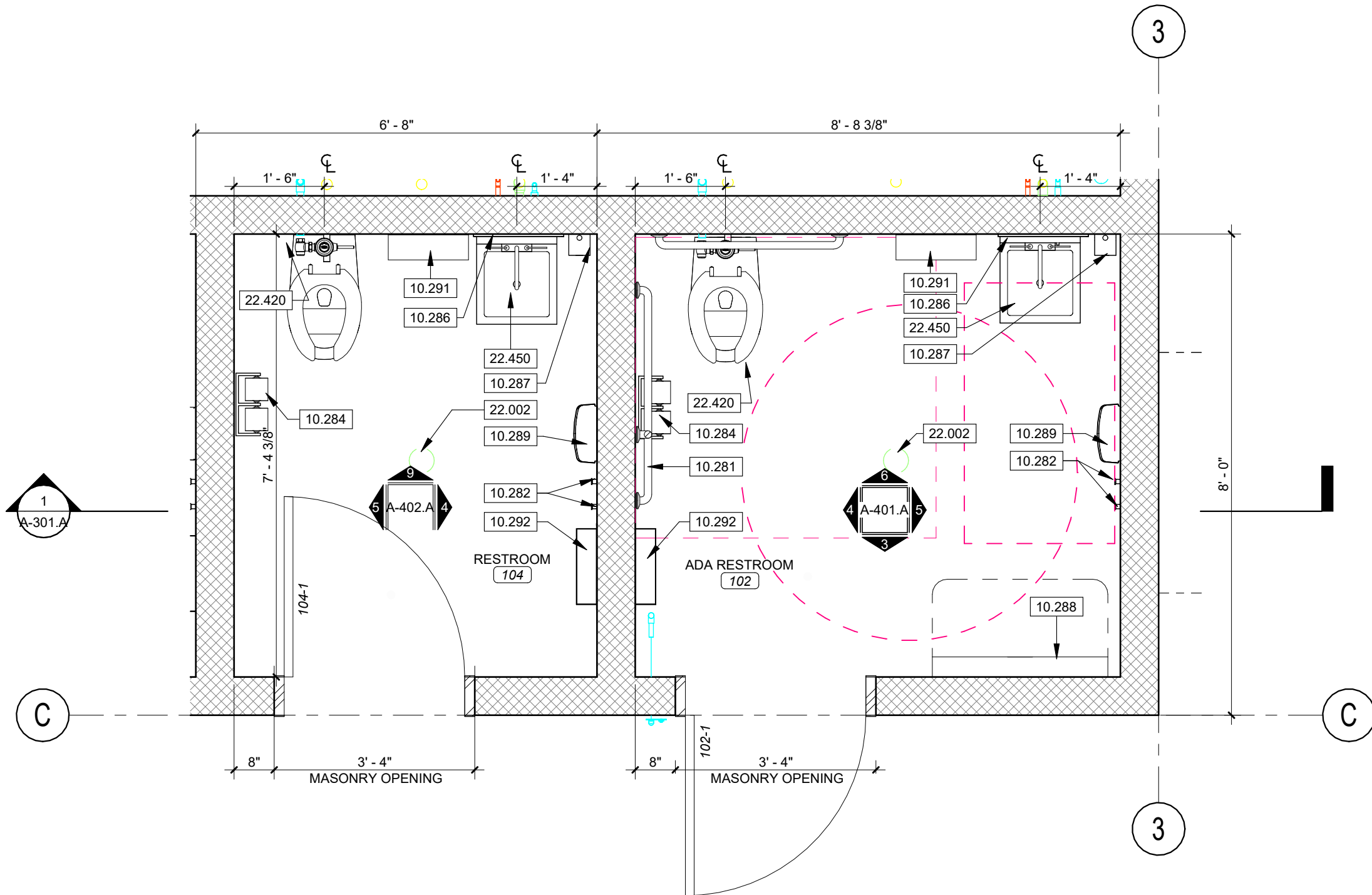
KEYNOTE LEGEND	
04.001	CMU BLOCK BENCH WITH ARCHITECTURAL CAST STONE TOP.
09.671	6" INTEGRAL EPOXY BASE. SEE FINISH PLAN.
10.281	ADA GRAB BARS. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES.
10.282	SURFACE MOUNTED HOOK. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. MOUNTING HEIGHT TO BE 46" A.F.F. TO CENTER OF HOOK TYPICAL.
10.283	ADA SHOWER SEAT. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.284	OFCI WALL MOUNTED TOILET TISSUE DISPENSER. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.286	WALL MOUNTED MIRROR. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.287	OFCI WALL MOUNTED SOAP DISPENSER. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.288	BABY CHANGING STATION. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.289	HAND DRYER. SURFACE MOUNTED. SEE 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE MEP. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.290	ADA SHOWER GRAB BARS. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES.
10.291	STAINLESS STEEL SHELF. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. MOUNTING HEIGHT TO BE 46" A.F.F. TO CENTER OF HOOK TYPICAL.
10.292	OFCI WALL MOUNTED TRASH CAN. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
22.002	FLOOR DRAIN. SLOPE SLAB TOWARD FLOOR DRAIN. SEE MEP.
22.420	WATER CLOSET. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
22.450	SINK. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.



4 TYP. ADA RR GRAB BAR
SCALE 1/2" = 1'-0"



3 TYP. ADA RR ENTRY
SCALE 1/2" = 1'-0"

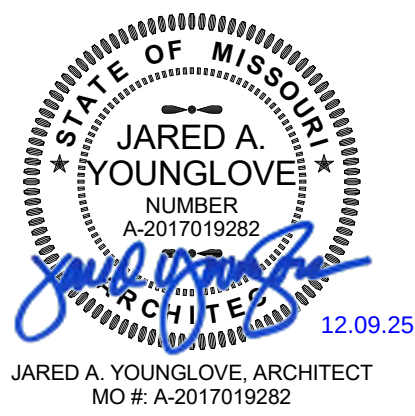


1 TYPICAL + ADA RESTROOM ENLARGED PLAN.
SCALE 1/2" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS TO COORDINATE CONNECTIONS WITH EQUIPMENT.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE TAKEN TO AND FROM THE FACES OF FINISHED MATERIAL.
- INSTALL WOOD BLOCKING TO WALL STRUCTURE TO SUPPORT ALL WALL-MOUNTED CASEWORK, ACCESSORIES, AND EQUIPMENT AS REQUIRED BY OWNER AND AS RECOMMENDED BY MANUFACTURER.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CASEWORK.
- PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CABINETRY ABUTS A WALL.
- PROVIDE A 4" HIGH BACK SPLASHES AND SIDE SPLASHES ON ALL COUNTERS WITH SINKS, UNLESS NOTED OTHERWISE.
- COORDINATE ALL WALL OUTLETS TO AVOID CONFLICT WITH CASEWORK.
- FIRE RATINGS OF WALLS ARE TO BE STENCIL PAINTED ONTO WALLS IN NON-VISIBLE LOCATIONS AND ABOVE CEILINGS. PROVIDE STENCILS NO LESS THAN 20'-0" ON CENTER AND NO MORE THAN 30'-0" ON CENTER.
- CASEWORK SHOWN WITH AN "L" ON ELEVATIONS INDICATES LOCKABLE CABINETS. PROVIDE KEY LOCK FOR ALL DOORS AND DRAWERS AS SHOWN.
- PROVIDE EXPANSION JOINTS AT GYPSUM WALLS EVERY 30' U.N.O.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER
A-2017019282
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

COPYRIGHT 2025
THESE PRINTS ARE THE PROPERTY OF PARAGON
ARCHITECTURE, LLC, AND SHALL BE USED ONLY FOR THE
PROJECT REFERENCED BELOW

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

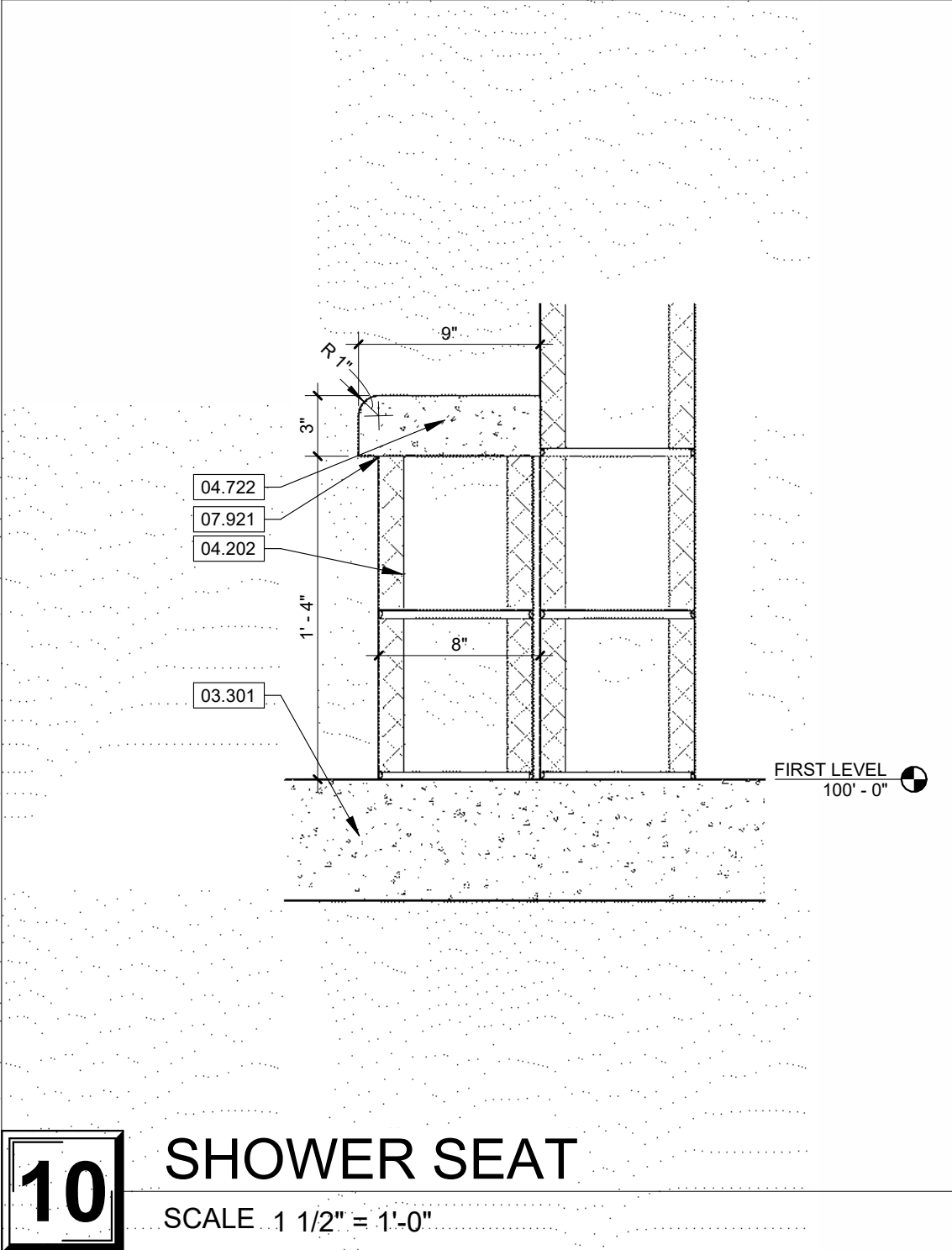
SHEET TITLE:
ENLARGED
FLOOR PLANS &
INT ELEVATIONS

SHEET NUMBER:

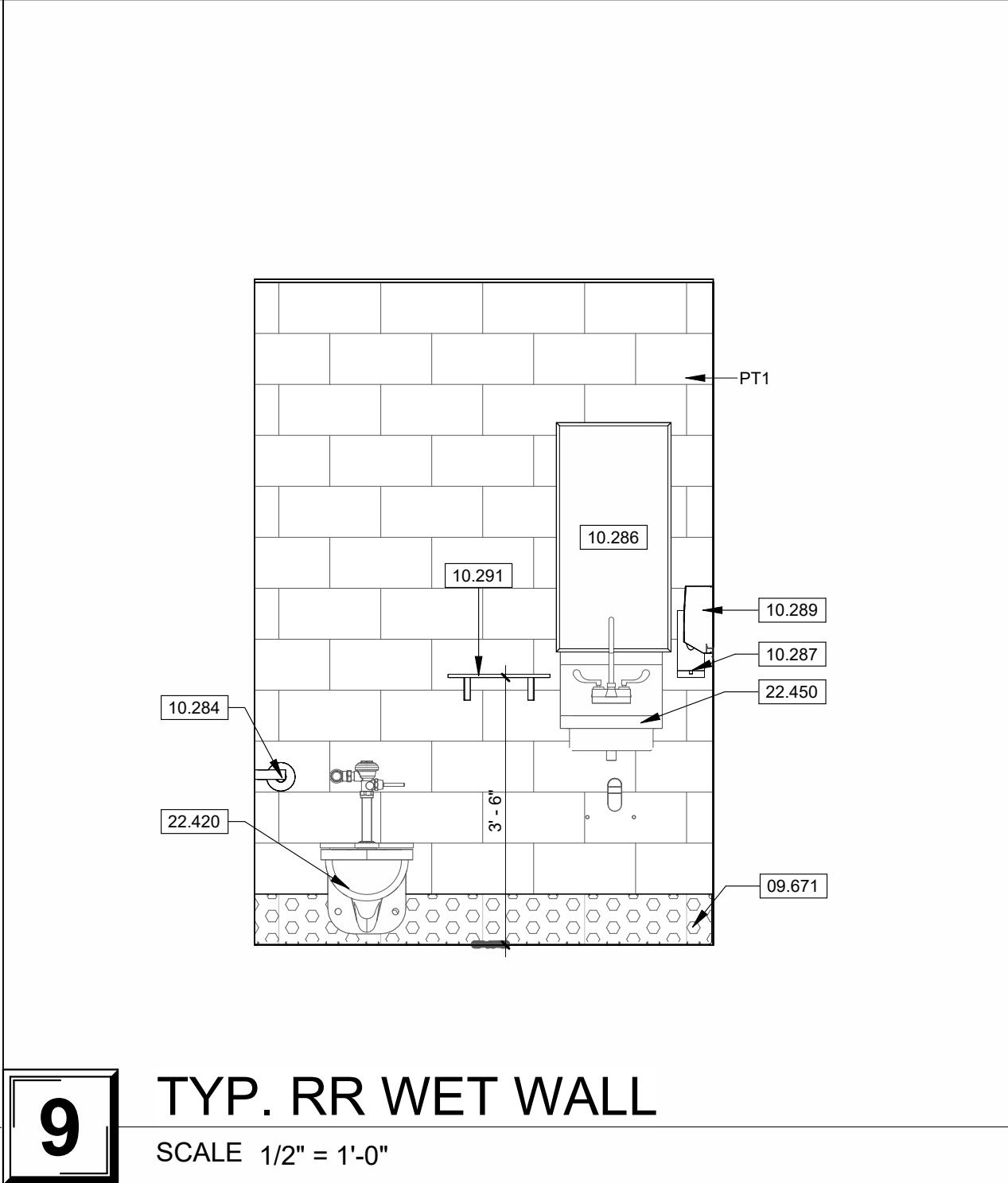
A-401.A

57 OF 71 SHEETS

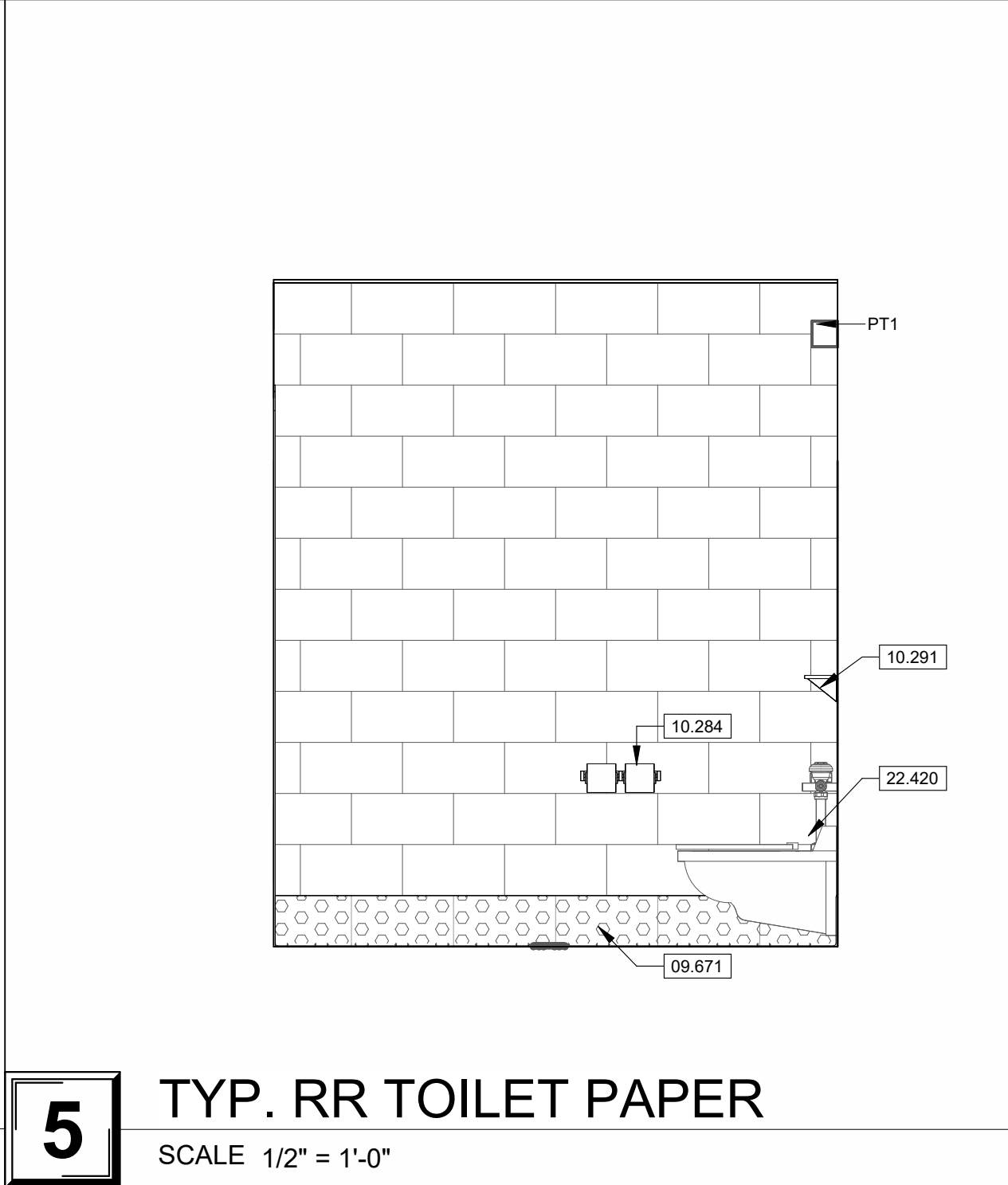
10/24/2025



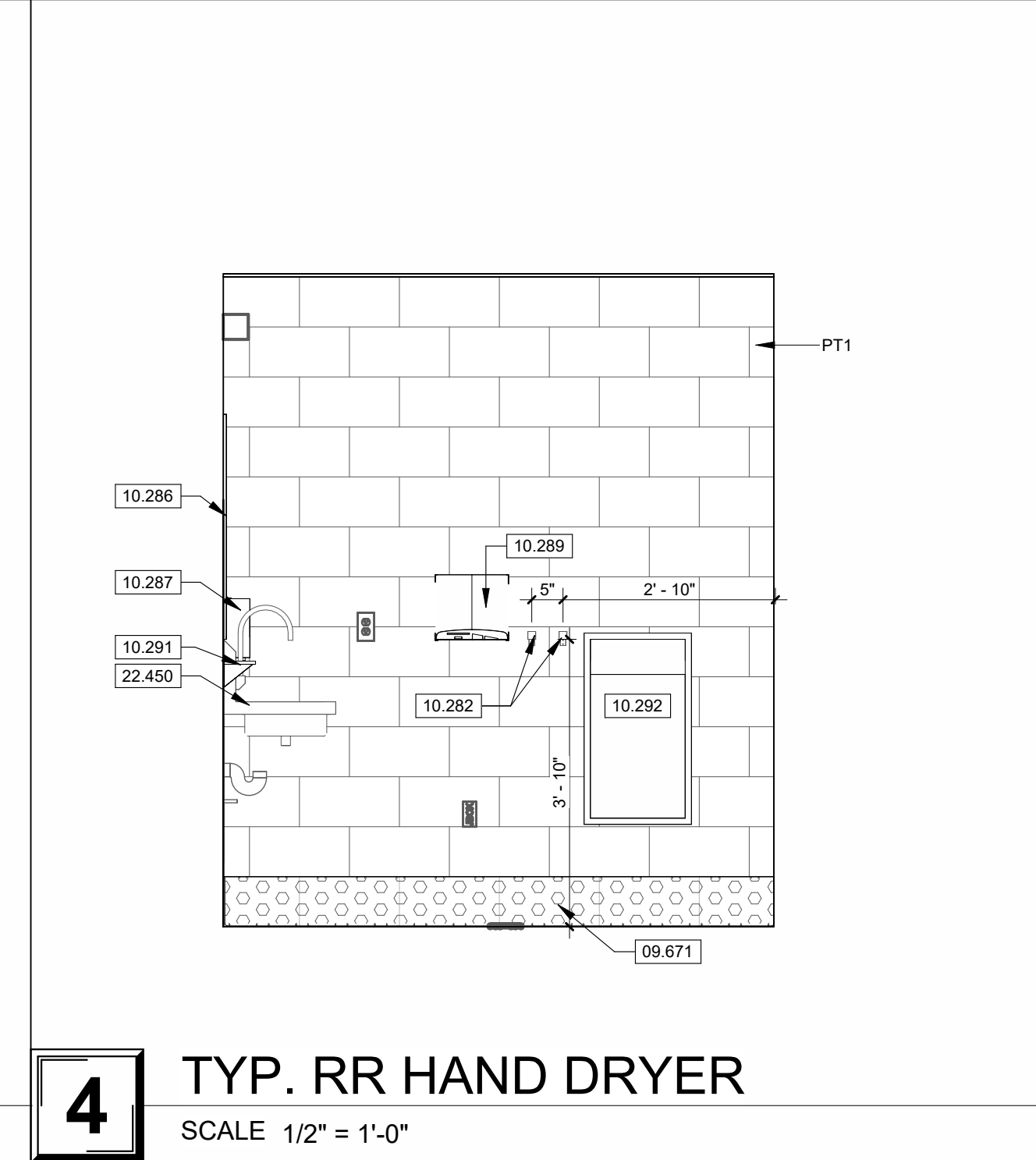
10 SHOWER SEAT
SCALE 1 1/2" = 1'-0"



9 TYP. RR WET WALL
SCALE 1/2" = 1'-0"

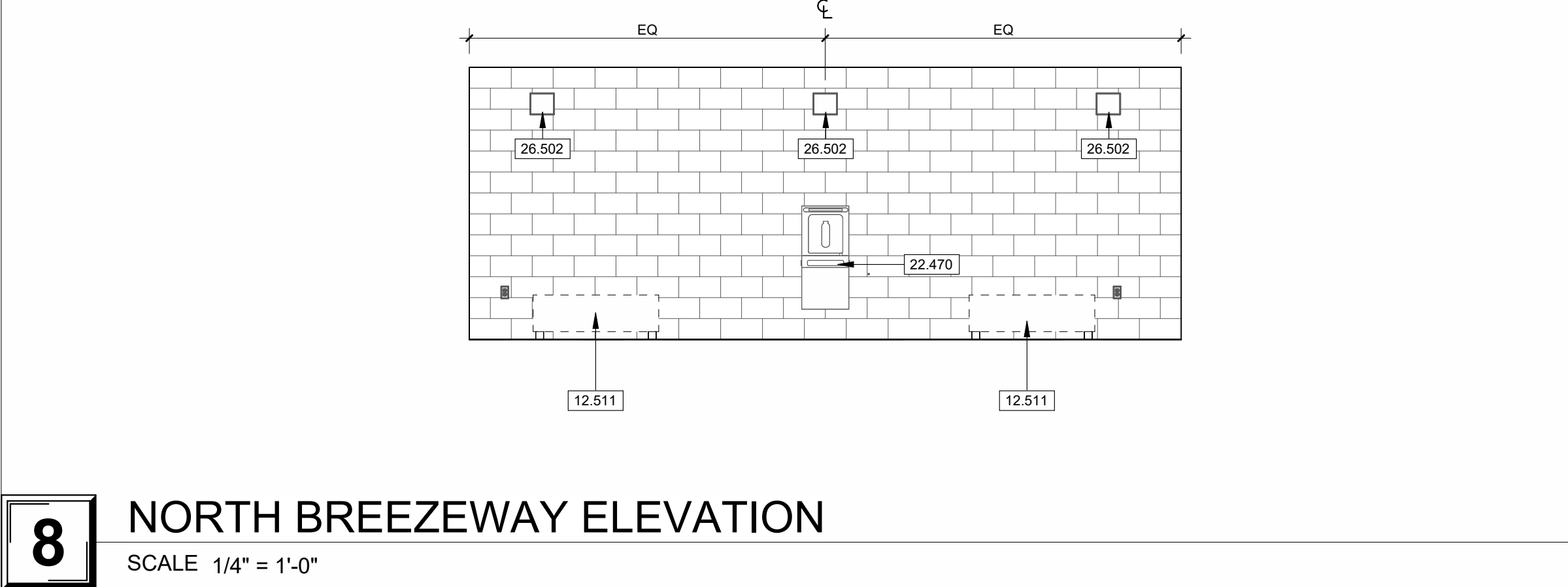


5 TYP. RR TOILET PAPER
SCALE 1/2" = 1'-0"

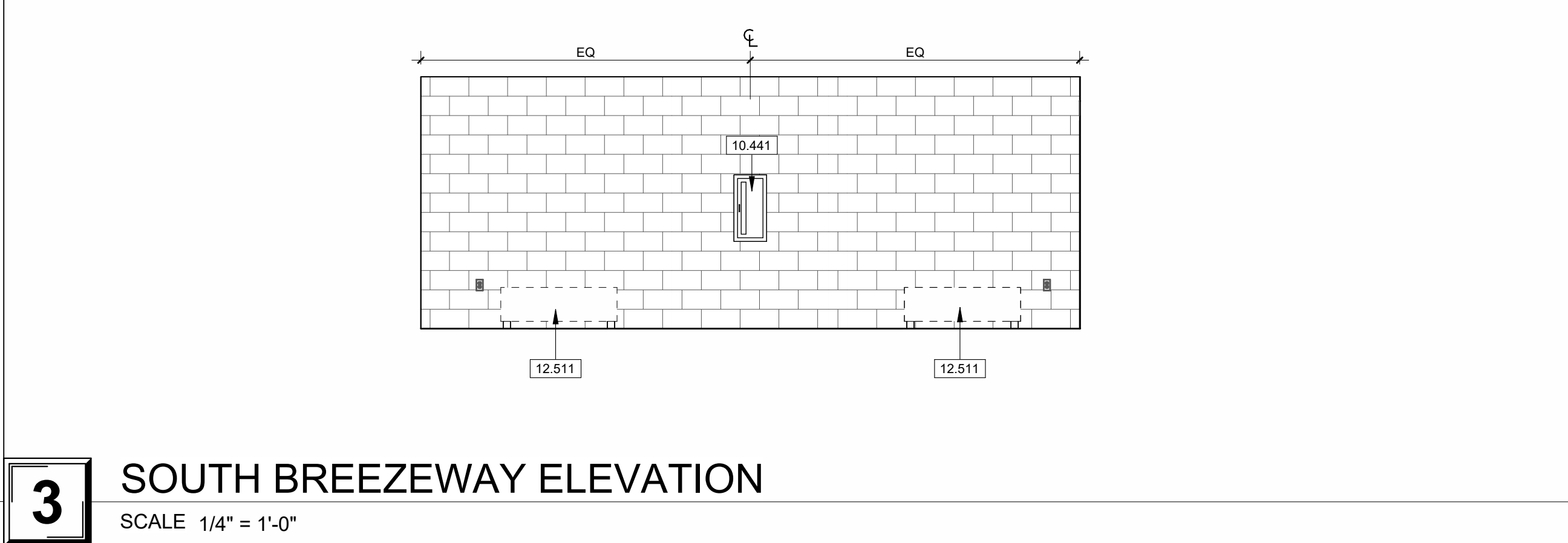


4 TYP. RR HAND DRYER
SCALE 1/2" = 1'-0"

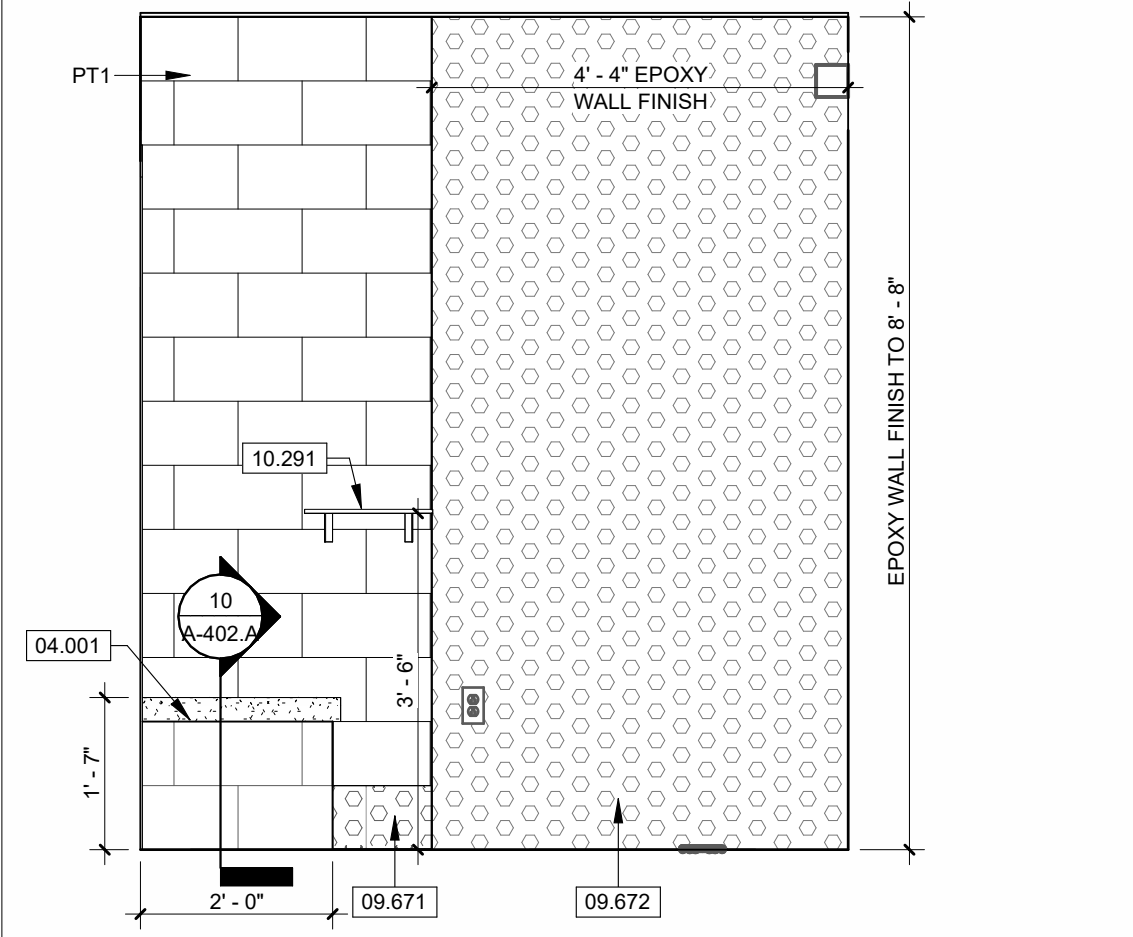
KEYNOTE LEGEND	
03.301	REINFORCED CONCRETE SLAB. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
04.001	CMU BLOCK BENCH WITH ARCHITECTURAL CAST STONE TOP.
04.202	8" X 8" X 16" CONCRETE MASONRY UNIT. SEE STRUCTURAL FOR REINFORCING AND BOND BEAM REQUIREMENTS. SEE SECTION 04.2000 UNIT MASONRY.
04.722	3" ARCHITECTURAL CAST STONE BENCH WITH RADIUS AT TOP EXPOSED CORNERS. SEE SECTION 04.7200 CAST STONE MASONRY.
07.921	CONTINUOUS JOINT SEALANT. SEE SECTION 07.9200 JOINT SEALANTS.
09.671	6" INTEGRAL EPOXY BASE. SEE FINISH PLAN.
09.672	EPOXY WALL FINISH. SEE FINISH PLAN.
09.673	AT EDGE OF EPOXY WALL FINISH. HOLD MATTING BACK 1/4" FROM TERMINATION POINT AND TAPER EDGE USING MANUFACTURER RECOMMENDED SURFACING EPOXY TO PROVIDE SMOOTH TRANSITION. PROVIDE GROUT AND FINISH COAT OVER EDGE TO SEAL TRANSITION.
10.282	SURFACE MOUNTED HOOK. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. MOUNTING HEIGHT TO BE 46" A.F.F. TO CENTER OF HOOK TYPICAL.
10.283	ADA SHOWER SEAT. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.284	OFCI WALL MOUNTED TOILET TISSUE DISPENSER. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.286	WALL MOUNTED MIRROR. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.287	OFCI WALL MOUNTED SOAP DISPENSER. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.289	HAND DRYER. SURFACE MOUNTED. SEE 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. SEE MEP. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.290	ADA SHOWER GRAB BARS. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES.
10.291	STAINLESS STEEL SHELF. SEE SECTION 10.2800 TOILET, BATH AND LAUNDRY ACCESSORIES. MOUNTING HEIGHT TO BE 46" A.F.F. TO CENTER OF HOOK TYPICAL.
10.292	OFCI WALL MOUNTED TRASH CAN. SEE G-104 FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES.
10.441	SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.
12.511	BENCH, OFCI.
22.420	WATER CLOSET. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
22.450	SINK. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
22.470	DRINKING FOUNTAIN. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
26.502	WALL LIGHTING. SEE MEP.



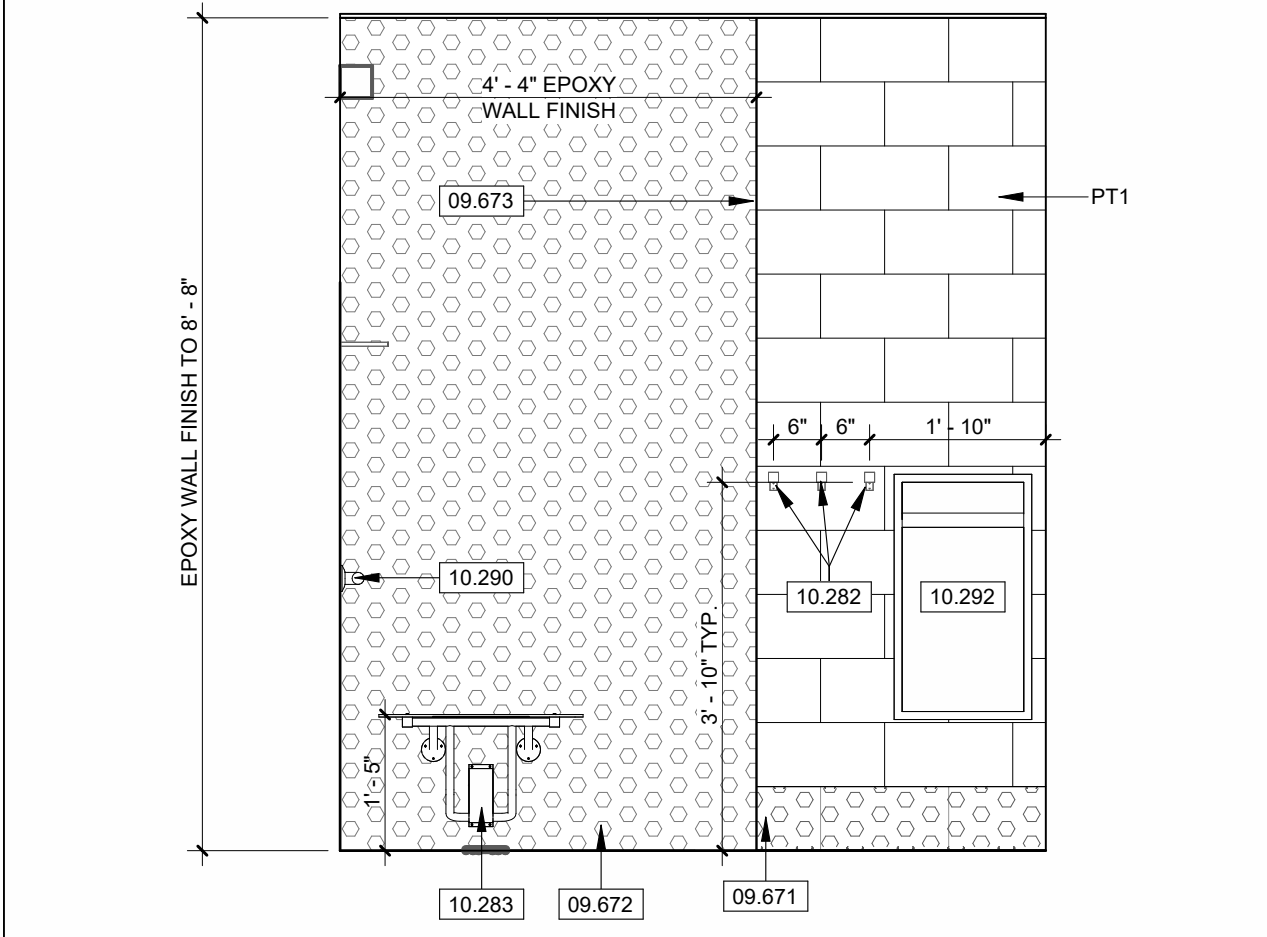
8 NORTH BREEZEWAY ELEVATION
SCALE 1/4" = 1'-0"



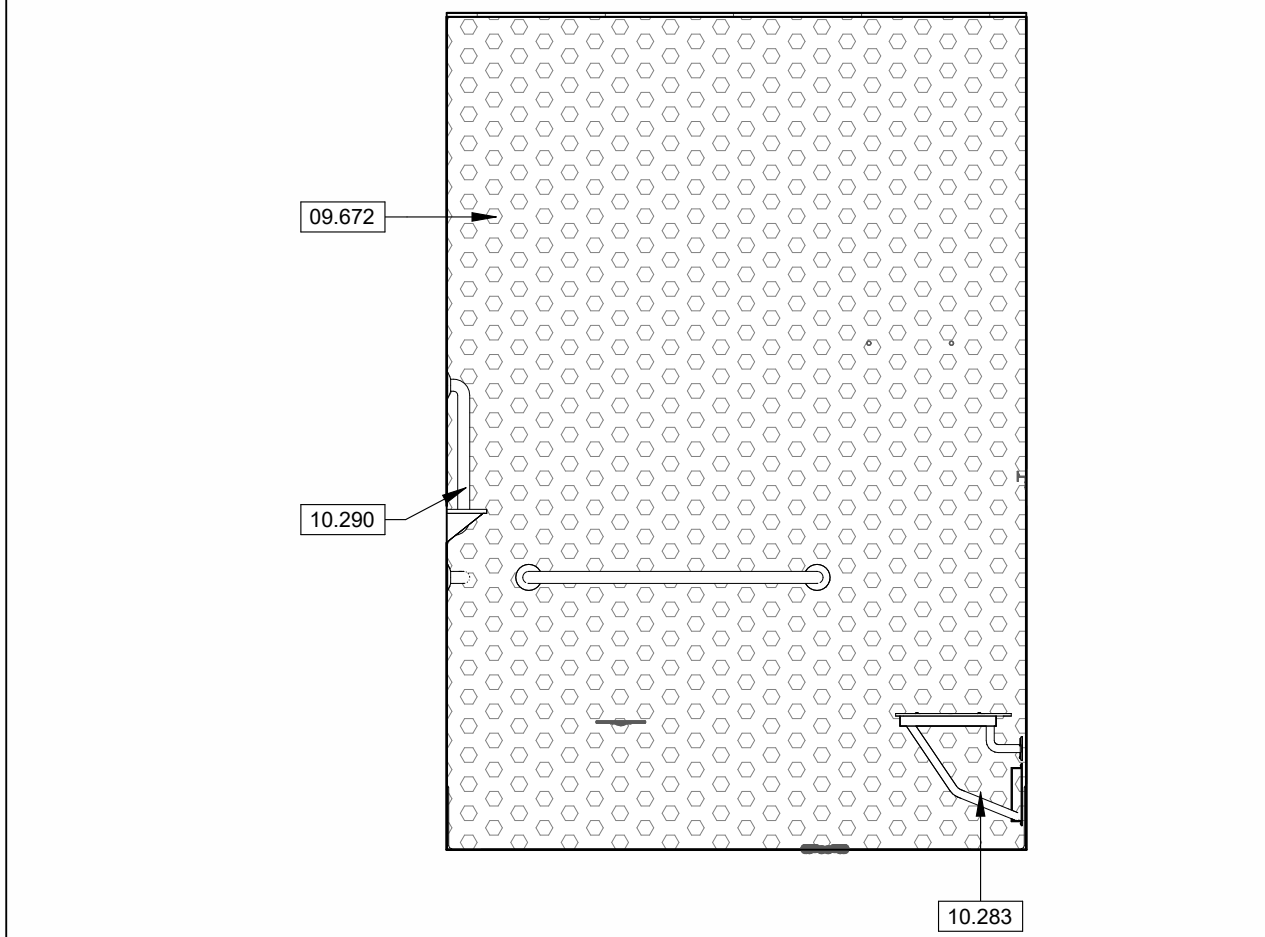
3 SOUTH BREEZEWAY ELEVATION
SCALE 1/4" = 1'-0"



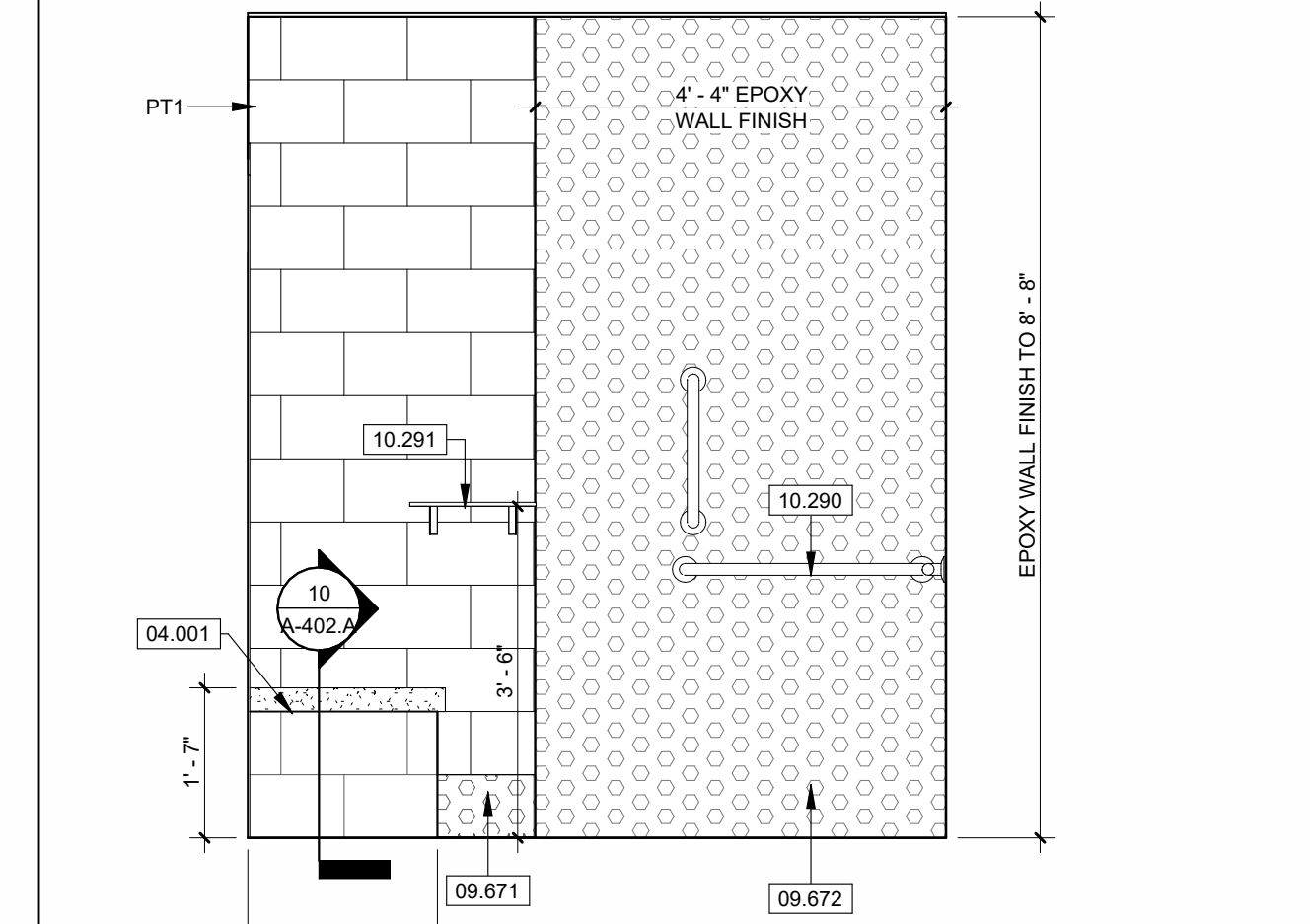
7 TYP SHOWER N ELEVATION
SCALE 1/2" = 1'-0"



6 TYP ADA SHOWER S ELEVATION
SCALE 1/2" = 1'-0"



2 TYP ADA SHOWER E ELEVATION
SCALE 1/2" = 1'-0"



1 TYP ADA SHOWER N ELEVATION
SCALE 1/2" = 1'-0"

THIS WORK IS PROTECTED UNDER U.S. COPYRIGHT LAW AND THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. FAILURE TO COMPENSATE PARAGON ARCHITECTURE FOR THE USE OF THESE DRAWINGS AS GOVERNED BY THE TERMS OF THE CLIENT-ARCHITECT AGREEMENT (CONTRACT ON FILE) OR 5% OF THE COST OF CONSTRUCTION (MINIMUM IF CONTRACT IS IMPLIED) USE OF THESE DOCUMENTS CREATES AN IMPLIED CONTRACT. SHALL BE CONSIDERED SUBSTANTIAL NON-PERFORMANCE AND CONSTITUTES A BREACH OF CONTRACT AND RESULTS IN THE LOSS OF PERMISSION TO USE THESE DOCUMENTS FOR ANY PURPOSE, BY ANYONE. USE OF THESE DOCUMENTS AFTER FAILURE TO COMPENSATE THE ARCHITECT CONSTITUTES COPYRIGHT INFRINGEMENT. A SERVICE FEE OF 1.5% WILL BE CHARGED PER MONTH ON THE UNPAID BALANCE. THE USER OF THESE DRAWINGS SHALL PAY ALL COSTS OF COLLECTION, INCLUDING ATTORNEY'S FEES.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COPYRIGHT 2025
THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC, AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

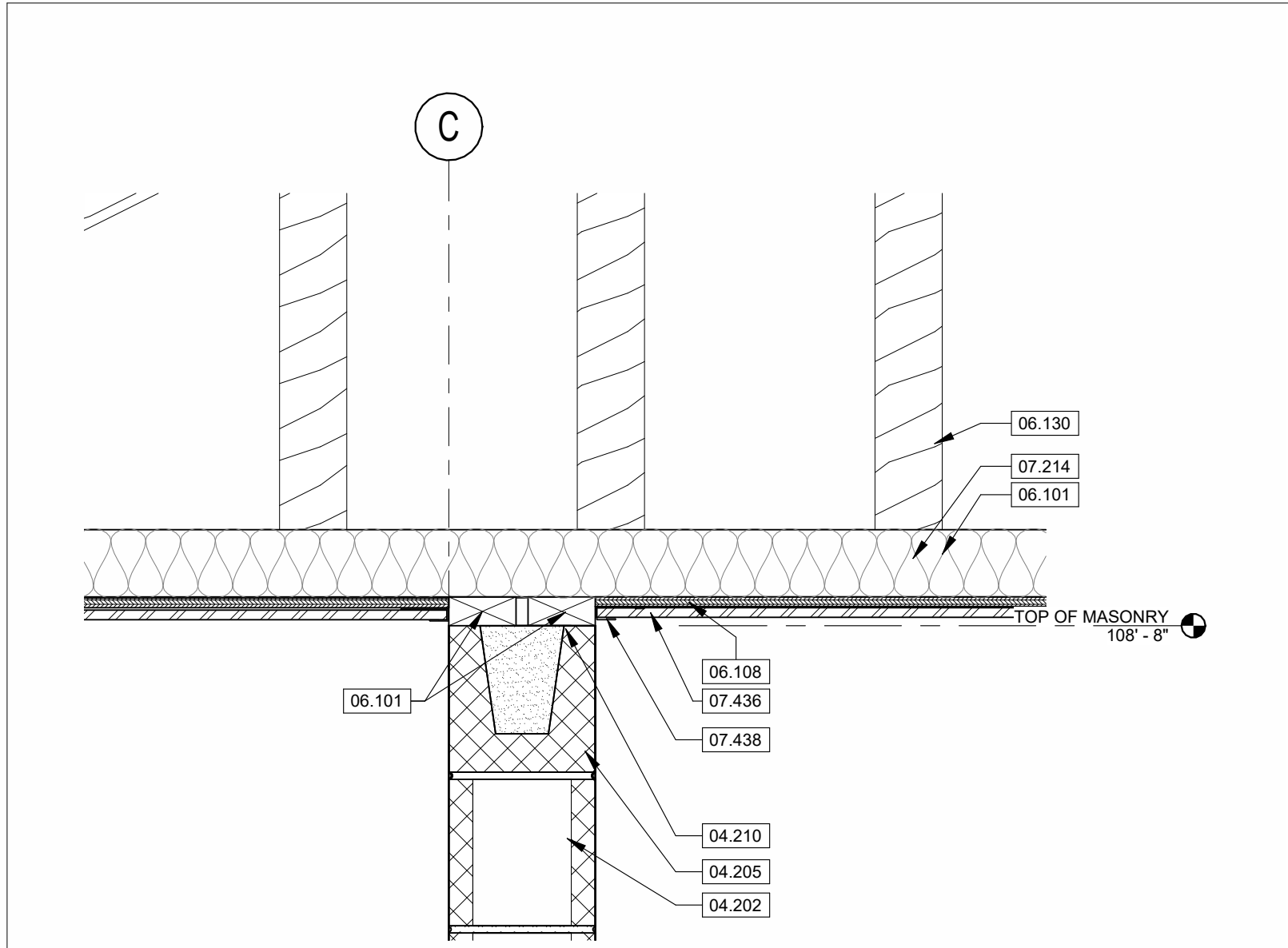
PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
INTERIOR
ELEVATIONS

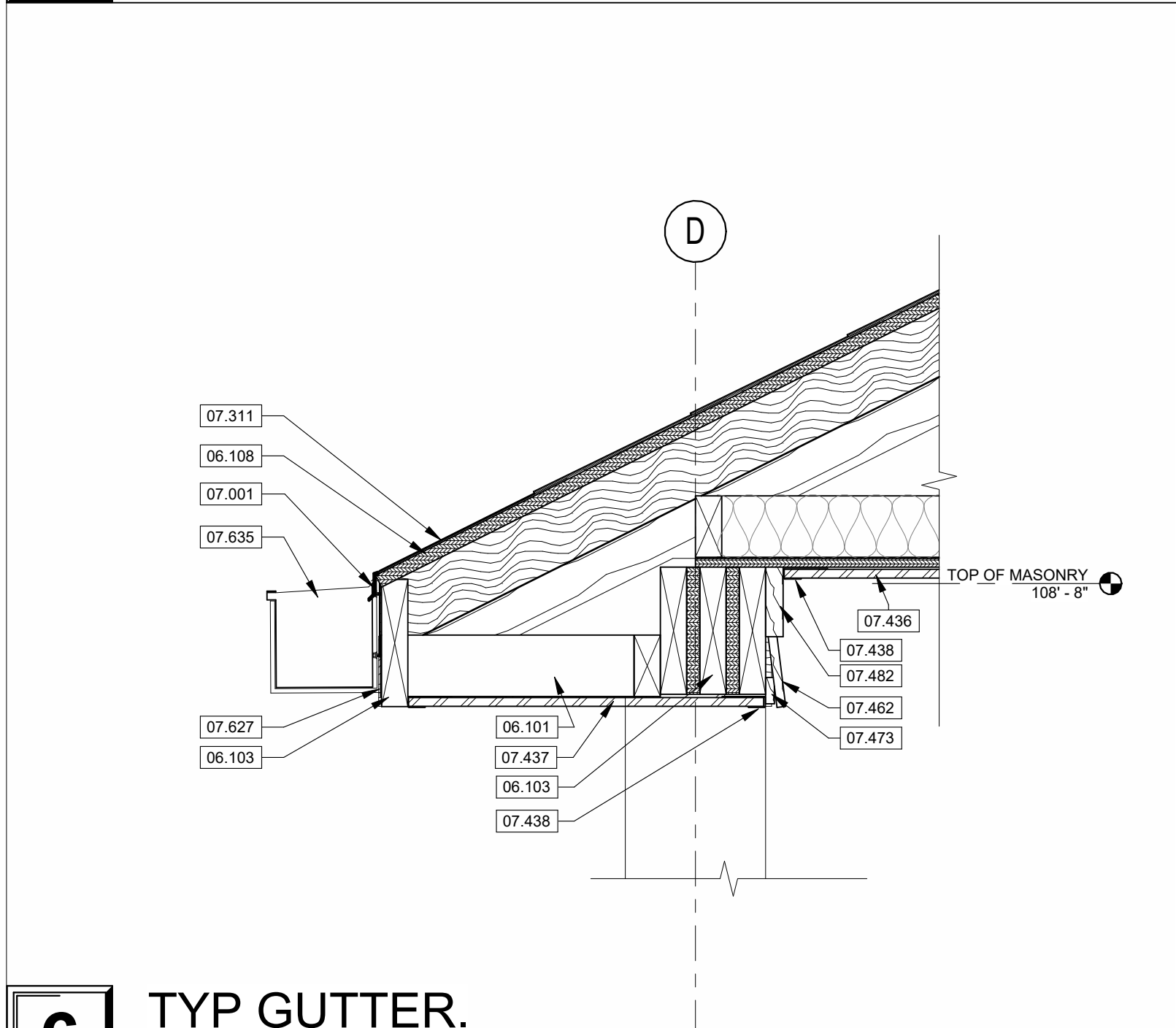
SHEET NUMBER:

A-402.A

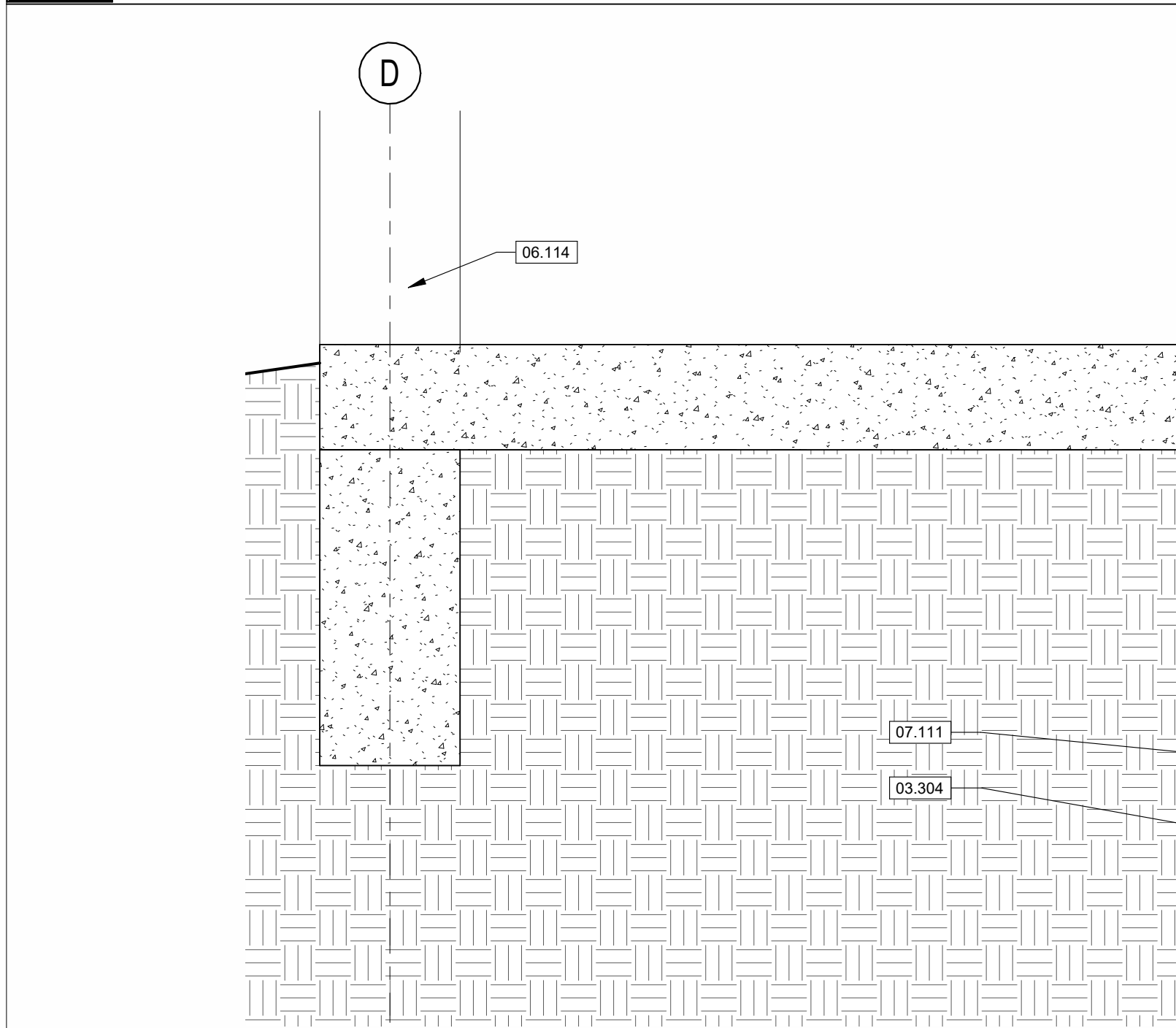
58 OF 71 SHEETS
10/24/2025



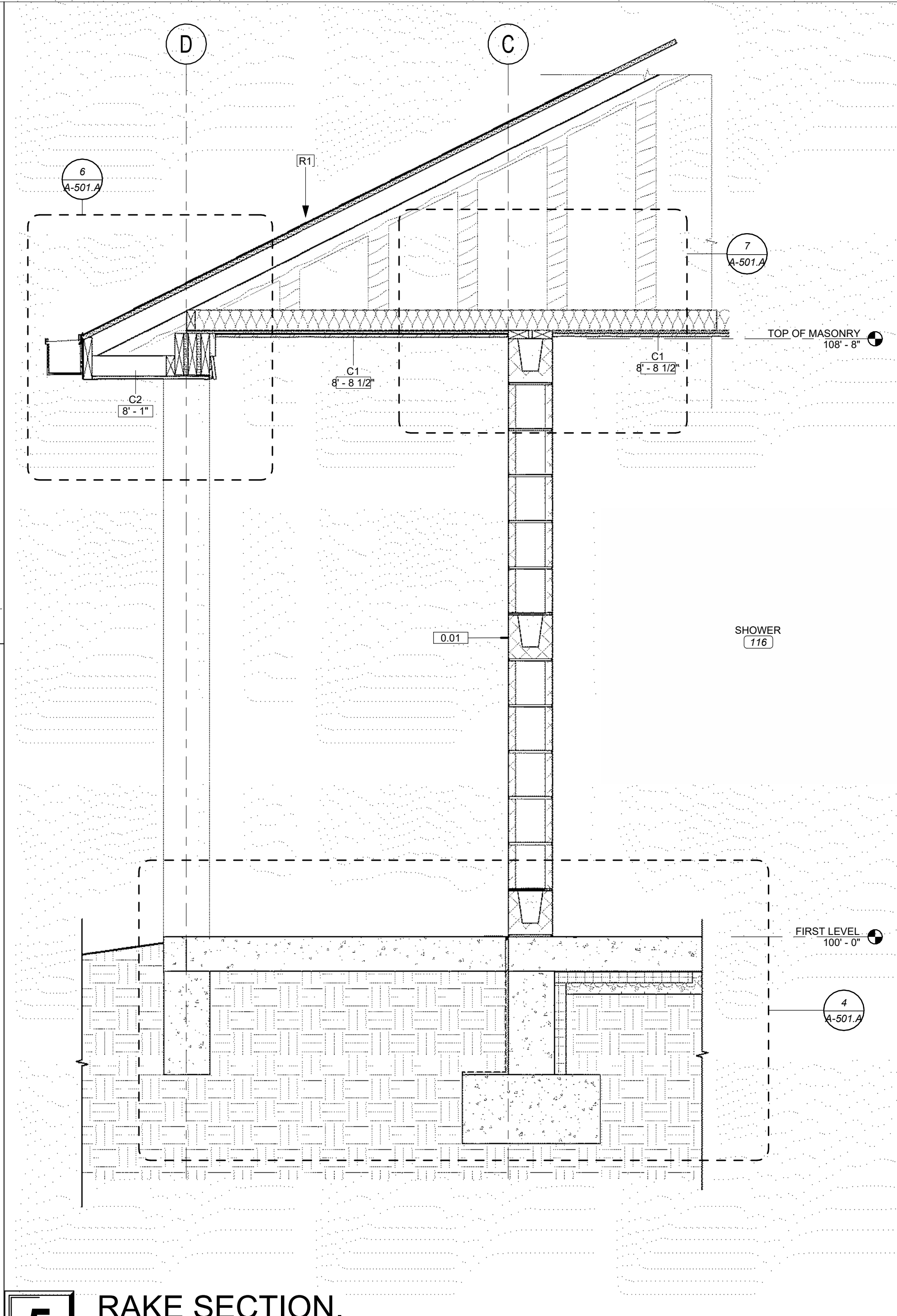
7 TOP OF WALL TYP DTL.
SCALE 1 1/2" = 1'-0"



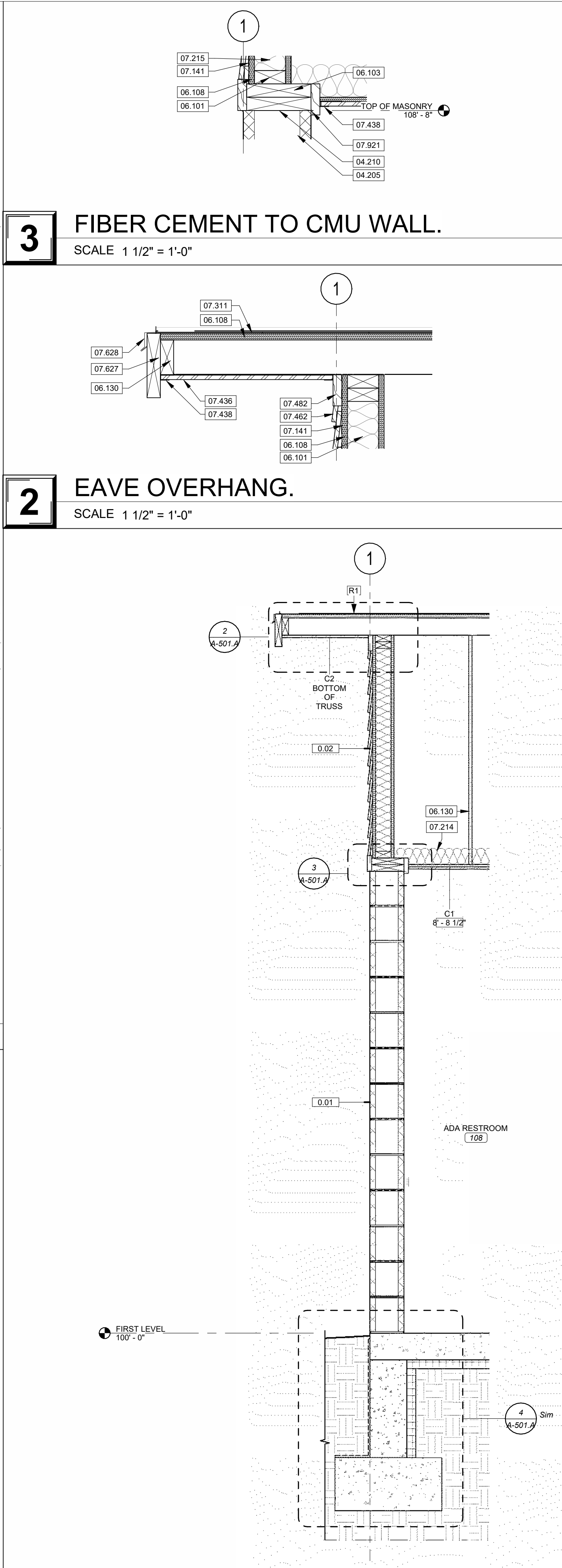
6 TYP GUTTER.
SCALE 1 1/2" = 1'-0"



4 TYPICAL FOUNDATION.
SCALE 1 1/2" = 1'-0"



5 RAKE SECTION.
SCALE 3/4" = 1'-0"



1 EAVE SECTION.
SCALE 3/4" = 1'-0"

KEYNOTE LEGEND	
03.052	15 MIL VAPOR BARRIER. SEE SECTION 03.0516 UNDERSLAB VAPOR BARRIER.
03.053	EXTEND VAPOR BARRIER TO TOP OF FOOTING. SEE SECTION 03.0516 UNDERSLAB VAPOR BARRIER.
03.301	REINFORCED CONCRETE SLAB. SEE STRUCTURAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.303	CAST-IN-PLACE CONCRETE FOUNDATION WALL. SEE STRUCTURAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.304	CAST-IN-PLACE CONCRETE FOOTING. SEE STRUCTURAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.306	12" CONCRETE EXPANSION JOINT FILLER MATERIAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
04.202	8" X 8" X 16" CONCRETE MASONRY UNIT. SEE STRUCTURAL FOR REINFORCING AND BOND BEAM REQUIREMENTS. SEE SECTION 04.2000 UNIT MASONRY.
04.205	BOND BEAM. SEE STRUCTURAL. SEE SECTION 04.2000 UNIT MASONRY. BLOCKFLASH BY MORTARNET, OR, APPROVED EQUAL. PROVIDE ABOVE ALL BOND BEAMS AND WALL OPENINGS. TYPICAL. SEE SECTION 04.2000 UNIT MASONRY.
06.101	2X4 WOOD STUD FRAMING AT MAXIMUM 16" O.C. SEE SECTION 06.1000 ROUGH CARPENTRY.
06.103	2X8 DOUBLE TOP PLATE. SEE SECTION 06.1000 ROUGH CARPENTRY.
06.108	PLYWOOD SHEATHING. SEE STRUCTURAL. SEE SECTION 06.1000 ROUGH CARPENTRY.
06.114	COLUMN BEYOND.
06.130	WOOD TRUSS SYSTEM. SEE SETSTRUCTURAL.
07.001	CONTINUOUS METAL DRIP EDGE FLASHING.
07.111	BITUMINOUS DAMPPROOFING. SEE SECTION 07.1113 BITUMINOUS DAMPPROOFING.
07.141	FLUID-APPLIED AIR AND WATER BARRIER. SEE SECTION 07.1400 FLUID-APPLIED WATERPROOFING.
07.212	2" RIGID INSULATION AT BUILDING PERIMETER. RETURN MINIMUM 24" UNDER CONCRETE SLAB. SEE SECTION 07.2100 THERMAL INSULATION.
07.214	ATTIC BATT INSULATION TO BE R-38 MINIMUM. SEE SECTION 07.2100 THERMAL INSULATION.
07.215	FILL CAVITY WITH UNFACED R-21 BATT INSULATION. SEE SECTION 07.2100 THERMAL INSULATION.
07.311	ASPHALT SHINGLES OVER FELT. PROVIDE 48" WIDE ICE AND WATER SHIELD AT ALL ROOF EDGES, RIDGES, VALLEYS, AND ALL VERTICAL WALL TO ROOF INTERSECTIONS. SEE SPECIFICATION SECTION 07.3113 ASPHALT SHINGLES.
07.436	NON-VENTED ALUMINUM SOFFIT PANEL. SEE SECTION 07.4213 METAL WALL PANELS.
07.437	VENTED ALUMINUM SOFFIT PANEL. SEE SECTION 07.4213 METAL WALL PANELS.
07.438	SOFFIT PANEL CLIP. SEE SECTION 07.4213 METAL WALL PANELS.
07.462	HORIZONTAL FIBER CEMENT SIDING. SEE SECTION 07.4243 COMPOSITE WALL PANELS.
07.473	FIBER CEMENT PANEL STARTER TRACK. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE SECTION 07.4243 COMPOSITE WALL PANELS.
07.482	5/4" x 3-1/2" FIBER CEMENT TRIM BOARD. SEE SECTION 07.4243 COMPOSITE WALL PANELS.
07.627	METAL CLAD 2X8 FASCIA.
07.628	DRIP EDGE FLASHING.
07.635	6" X 6" CLASSIC GUTTER WITH SLOPED STRAPS AT 24" O.C. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.921	CONTINUOUS JOINT SEALANT. SEE SECTION 07.9200 JOINT SEALANTS.
WALL SCHEDULE	
0.01	8" GROUND FACE CMU RUNNING BOND BASIS OF DESIGN TRENDSONE BLOCK BATON ROUGE
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BARRIER OVER WALL SHEATHING OVER GABLE END TRUSS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COPYRIGHT 2025
THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE, LLC, AND SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
WALL DETAILS

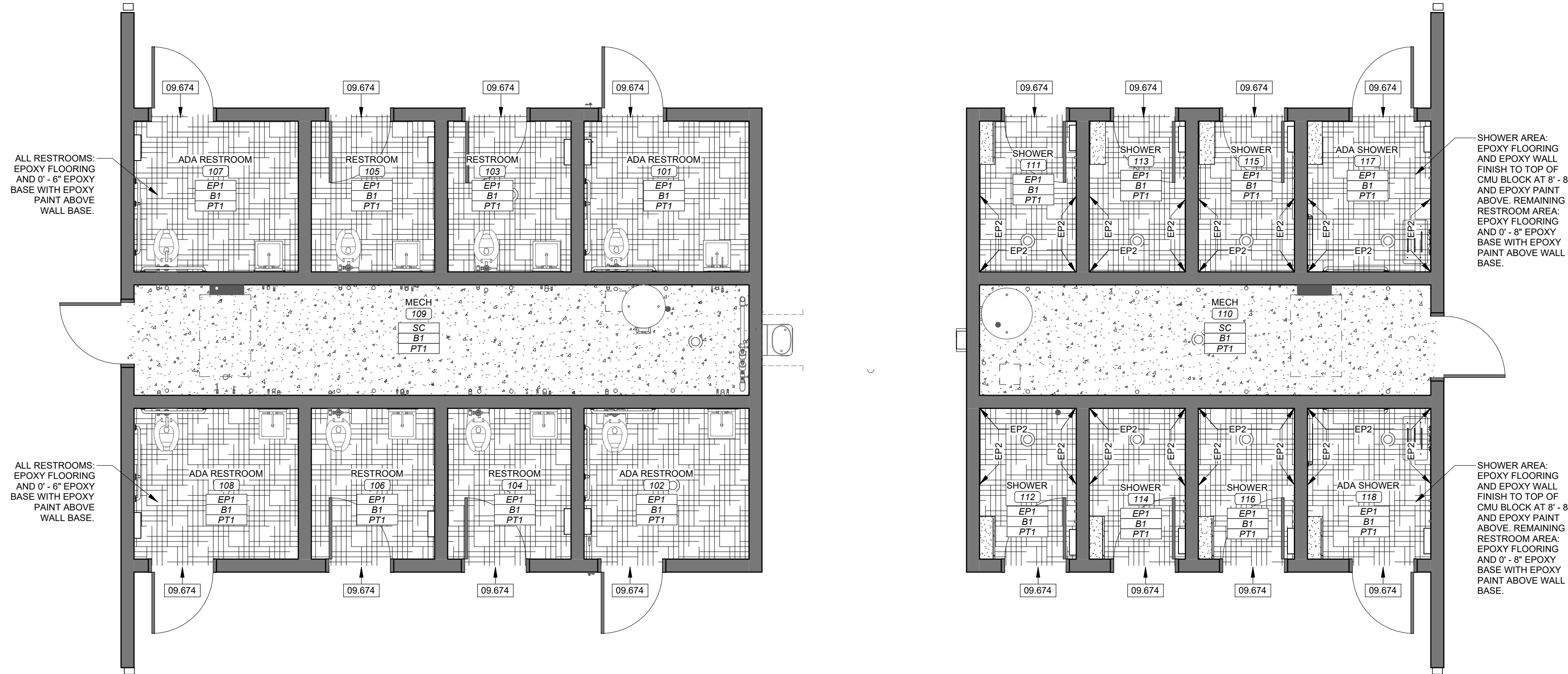
SHEET NUMBER:

A-501.A

59 OF 71 SHEETS

10/24/2025

2 FINISH PLAN
SCALE 1/4" = 1'-0"



KEYNOTE LEGEND	
06.117	STRUCTURAL WOOD COLUMN. SEE STRUCTURAL.
09.674	PROVIDE TAPERED EDGE OF EPOXY TO TRANSITION FROM EPOXY FLOORING TO CONCRETE. TRANSITION TO OCCUR IN CENTER OF OPENING.

CEILING SCHEDULE	
C1	ALUMINUM SOFFIT NON VENTED ON 1/2" PLYWOOD ON BOTTOM OF TRUSS.
C2	VENTED ALUMINUM SOFFIT ON BOTTOM OF TRUSS

REFLECTED CEILING PLAN LEGEND	
C1	CEILING TYPE
9'-0"	ELEVATION OF CEILING ABOVE FINISH FLOOR
PT1	CEILING FINISH PAINT COLOR (IF INDICATED)

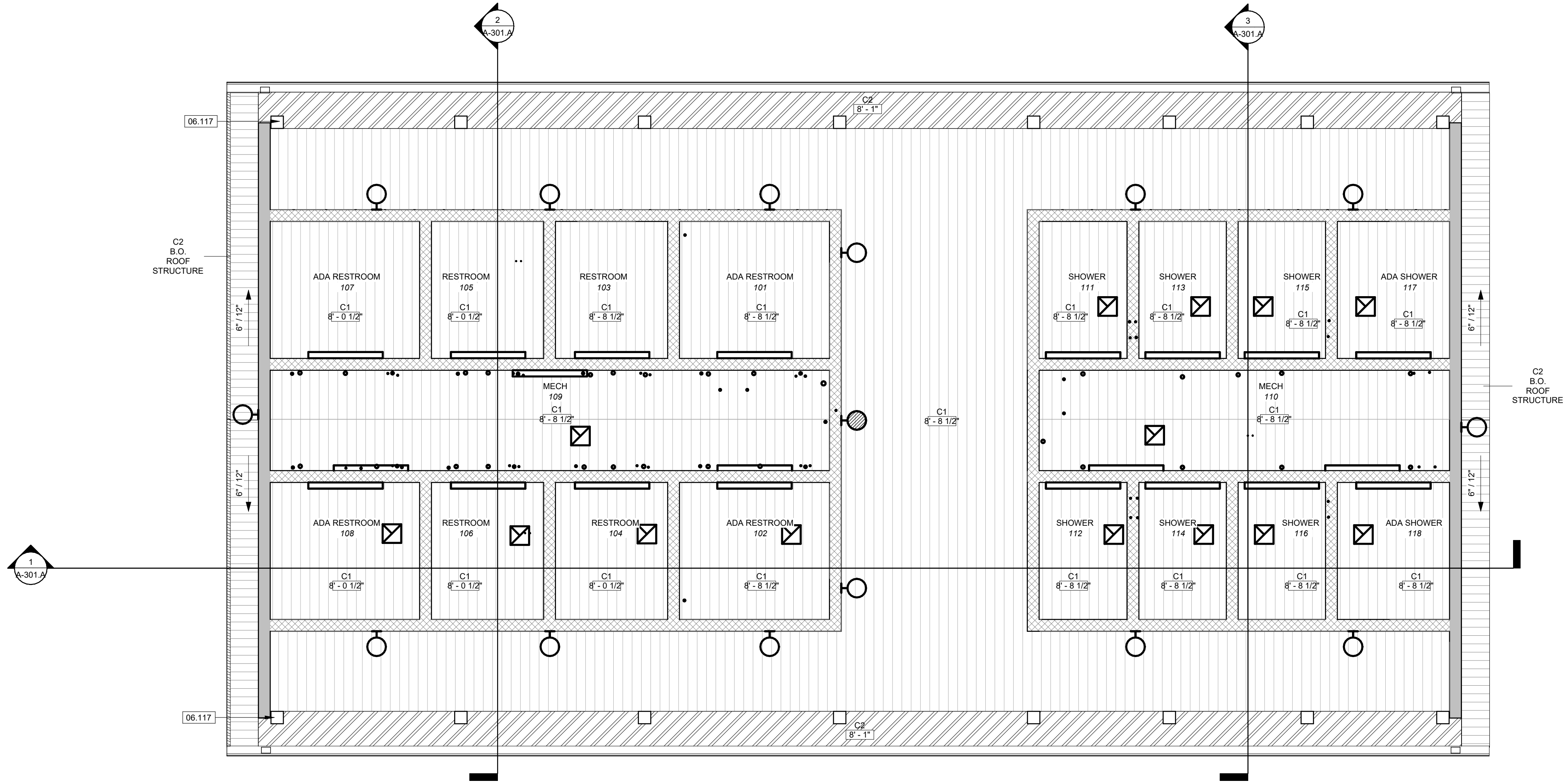
RCP PARTITION: TOP OF WALL CONDITIONS	
	FRAMING TO DECK: WALL FRAMING EXTENDS TO ROOF DECKING. REFER TO WALL PARTITION TAG AND PARTITION LEGEND FOR MORE INFORMATION.
	UNATTACHED FRAMING: WALL FRAMING REMAINS UNATTACHED FROM ROOF DECKING. REFER TO WALL PARTITION TAG AND PARTITION LEGEND FOR MORE INFORMATION.

- RCP GENERAL NOTES**
- ALL EXPOSED GYPSUM BOARD CEILINGS, SOFFITS, AND BULKHEADS ARE TO BE PAINTED. REFER TO FINISH LEGEND FOR MORE INFORMATION ON PAINT COLOR(S) IDENTIFIED BY CEILING TAGS.
 - ALL STRUCTURE, FRAMING, DUCTWORK, MECHANICAL, AND ELECTRICAL ITEMS EXPOSED TO VIEW ARE TO BE PAINTED WITH DRYFALL PAINT UNLESS NOTED OTHERWISE.
 - CEILING HEIGHT ELEVATIONS ARE NOTED FROM THE FINISH FLOOR OF THE CORRESPONDING LEVEL. COORDINATE REFLECTED CEILING PLAN WITH LIGHTING, MECHANICAL, AND PLUMBING PLANS. COORDINATE LIGHT FIXTURES AND DIFFUSER PLACEMENT. CONTACT ARCHITECT IF DISCREPANCIES ARE FOUND AND DOCUMENT IN WRITING.
 - LIGHTING AND EXPOSED MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING SERIES SHEETS FOR ADDITIONAL INFORMATION.
 - PROVIDE APPROPRIATE FINISH AND/OR TRIM AT ALL PENETRATIONS IN WALLS, FLOORS, AND AT EXPOSED FINISH CEILING LOCATIONS. CONTRACTOR SHALL PROVIDE SEALANT AND BACKER ROD AT ALL MINOR GAPS AND AT EXPOSED PENETRATIONS. WHERE LARGE GAPS OR ROUGH CUT PENETRATIONS OCCUR THE CONTRACTOR SHALL PROVIDE SHEET METAL TRIM AS NECESSARY FOR A FINISHED APPEARANCE. PAINT TRIM AND SEALANTS TO MATCH ADJACENT WALL FINISHES AND/OR CEILING FINISHES. COORDINATE PAINT COLOR WITH ARCHITECT.
 - PROVIDE EXPANSION JOINTS AT GYPSUM CEILINGS EVERY 30' U.N.O.

FINISH PLAN LEGEND	
	SC: SEALED CONCRETE
	EP1: EPOXY FLOORING MANUFACTURER: SHERWIN WILLIAMS, PRODUCT: 1/4" DECO FLAKE RESUFLOL, COLOR: MOCHA.
WALL BASE	
B1: 8" INTEGRAL EPOXY WALL BASE. BASIS-OF-DESIGN TO BE SHERWIN WILLIAMS 1/4" DECO FLAKE RESUWALL, COLOR: MOCHA.	
PAINT & WALL FINISHES	
PAINT COLOR, BASIS-OF-DESIGN TO BE SHERWIN-WILLIAMS EGGSHELL UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN FOR CEILING COLOR LOCATIONS.	
PT1:	FIELD COLOR, EPOXY FINISH: KESTREL WHITE SW7516.
PT2:	FIELD COLOR: NOT USED.
PT3:	HM DOOR & FRAME PAINT, EPOXY FINISH & SEMI-GLOSS: TURKISH COFFEE SW6076.
PT4:	SIDING PAINT, SEMI-GLOSS: TURKISH COFFEE SW6076.
	EP2: EPOXY WALL FINISH BASIS-OF-DESIGN TO BE SHERWIN WILLIAMS 1/4" DECO FLAKE RESUWALL, COLOR: MOCHA. NOTE: SEE ELEVATIONS FOR HEIGHTS AND LOCATIONS.

GENERAL NOTES	
1.	TRANSITION BETWEEN FLOORING TYPES MUST INCLUDE A TRANSITION STRIP AND/OR NOSING IF TRANSITION IS GREATER THAN 1/4". TRANSITION STRIP AND/OR NOSING IN A COLOR MATCHING WALL BASE COLOR, OR METAL FOR TILE, UNLESS NOTED OTHERWISE.
2.	REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL FINISH INFORMATION.
3.	FIELD FLOOR FINISH NOTATED WITHIN FINISH TAG. ACCENT FLOOR FINISHES ARE SHOWN WITH A HATCH PATTERN ON FINISH PLANS WHERE APPLICABLE.
4.	FLOOR COVERINGS TO EXTEND THROUGHOUT ENTIRE FLOOR, AND UNDER FLOOR AND WALL MOUNTED MILLWORK, EQUIPMENT, AND FURNISHINGS.
	SC — FIELD FLOOR FINISH
	B1 — WALL FINISH
	PT1 — FIELD PAINT FINISH

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



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MO

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION SCHEDULE

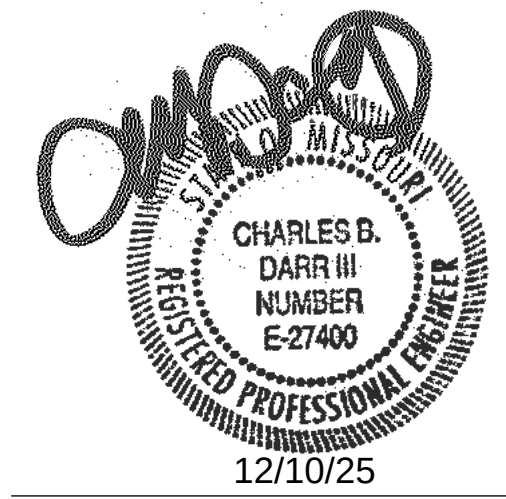
ISSUE DATE: 10/24/2025

PROJECT ARCHITECT: JY
DRAWN BY: AM, LY, LH, TW
CHECKED BY: JY, JS

SHEET TITLE:
REFLECTED
CEILING +
FINISH PLAN

SHEET NUMBER:

A-701.A
60 OF 71 SHEETS
10/24/2025



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

SHEET TITLE:

GENERAL PLUMBING
AND MECHANICAL
INFORMATION

SHEET NUMBER:

P-001.A

MECHANICAL SYMBOL LEGEND

GENERAL		HVAC	
EXISTING DEMOLITION NEW NEW SCHEDULED EQUIPMENT EXISTING EQUIPMENT NEW TO EXISTING SHEET KEYNOTE REVISION DELTA PIPE UP OR DUCT UP PIPE OR DUCT DOWN	PIPE OR DUCT DOWN PIPE OR DUCT CAP PIPE ANCHOR PIPE GUIDE PIPE ROLLER SUPPORT FLOW DIRECTION ARROW PIPE EXPANSION JOINT FLEXIBLE CONNECTOR CONCENTRIC REDUCER ECCENTRIC REDUCER	CEILING DIFFUSER CEILING DIFFUSER, HATCH INDICATES BLANK-OFF PANEL LINEAR DIFFUSER SUPPLY REGISTER RETURN AIR GRILLE RETURN AIR GRILLE EXHAUST AIR GRILLE THERMOSTAT HUMIDISTAT CARBON DIOXIDE SENSOR RECTANGULAR DUCT (WxH) ROUND DUCT (DIA.) OVAL DUCT (W/H)	SUPPLY AIR/OUTSIDE AIR UP AND DOWN RETURN AIR UP AND DOWN EXHAUST AIR UP AND DOWN MANUAL VOLUME DAMPER MOTORIZED DAMPER BACKDRAFT DAMPER FIRE DAMPER SMOKE DAMPER COMBINATION FIRE AND SMOKE DAMPER TURNING VANES HARDWARE CLOTH GRILLE VOLUME EXTRACTOR
SANITARY & DOMESTIC		VALVES	
SANITARY DRAIN BELOW GRADE (PLAN) SANTARY DRAIN ABOVE GRADE (PLAN) COLD WATER (CW) HOT WATER (HW) HOT WATER CIRCULATING (HWC) 140°F DOMESTIC HOT WATER 140°F DOMESTIC HOT WATER CIRCULATING TEMPERED WATER TEMPERED WATER CIRCULATING VENT VENT BELOW FLOOR ACID VENT	ACID WASTE (ABOVE GRADE) ACID WASTE (BELOW GRADE) CONDENSATE DRAIN PIPING ROOF DRAIN (ABOVE GRADE) ROOF DRAIN (BELOW GRADE) OVERFLOW DRAIN (ABOVE GRADE) OVERFLOW DRAIN (BELOW GRADE) SOFT COLD WATER SOFT HOT WATER SUB-SOIL DRAIN (DRAIN TILE) FORCE MAIN (PUMP DISCHARGE)	T&P RELIEF VALVE ISOLATION VALVE ISOLATION VALVE IN VERTICAL POSITION CHECK VALVE BALANCING VALVE MOTORIZED 2-WAY VALVE MOTORIZED 3-WAY VALVE	PRESSURE REDUCING & REGULATING VALVE PRESSURE REGULATING VALVE DIAPHRAGM VALVE ANGLE VALVE STRAINER UNION
FIXTURES		FIRE	
WC-1 WATER CLOSET AND TYPE U-1 URINAL AND TYPE L-1/S-1 LAVATORY OR SINK AND TYPE BT-1 BATHTUB AND TYPE SH-1 SHOWER AND TYPE MS-1/SS-1 SERVICE SINK OR MOP SINK AND TYPE EWC-1 ELECTRIC WATER COOLER AND TYPE M METER (GAS, WATER, ETC) VTR VENT THRU ROOF	RD-1 ROOF DRAIN OD-1 OVERFLOW DRAIN ECO EXTERIOR CLEAN OUT FCO FLOOR CLEAN OUT WCO WALL CLEAN OUT CO HORIZ. CLEAN OUT FD-1/FS-1 FLOOR DRAIN OR SINK AND TYPE HB-1 HOSE BIBB WH-1 WALL HYDRANT YH-1 YARD HYDRANT DS-1 DOWNSPOUT NOZZLE	FIRE PROTECTION PIPING FIRE DEPARTMENT CONNECTION DUCT SMOKE DETECTOR AND RELAY TAMPER SWITCH FLOW SWITCH	SPRINKLER HEAD, PENDANT SPRINKLER HEAD, SIDE WALL ALARM VALVE, WET ALARM VALVE, DRY FIRE PROTECTION RISER
HYDRONIC		SPECIALTY SYSTEMS	
CHWR CHILLED WATER RETURN CHWS CHILLED WATER SUPPLY MU MAKE-UP WATER HWR HEATING WATER RETURN HWS HEATING WATER SUPPLY HCWR HOT/CHILLED WATER RETURN HCWS HOT/CHILLED WATER SUPPLY HPR HEAT PUMP RETURN HPS HEAT PUMP SUPPLY	CTS COOLING TOWER SUPPLY CTR COOLING TOWER RETURN CR CONDENSER WATER RETURN CS CONDENSER WATER SUPPLY ERR ENERGY RECOVERY RETURN ERS ENERGY RECOVERY SUPPLY AUTOMATIC AIR VENT MANUAL AIR VENT	RO REVERSE OSMOSIS RD REFRIGERANT DISCHARGE FOR FUEL OIL RETURN FOS FUEL OIL SUCTION FOV FUEL OIL VENT G NATURAL GAS LPG LIQUID PETROLEUM GAS A COMPRESSED AIR LR LIQUID REFRIGERANT SR SUCTION REFRIGERANT	RL PAIR REFRIGERANT LINES (SUCTION, LIQUID) P PROPANE A AIR OUTLET VAC VACUUM (AIR) DI DISTILLED WATER LV LABORATORY VACUUM LOX LIQUID OXYGEN LA LABORATORY COMPRESSED AIR DE DEIONIZED WATER
STEAM		MEDICAL GAS	
BBD BOILER BLOW DOWN CD STEAM CONDENSATE DRAIN ABOVE GRADE CD STEAM CONDENSATE DRAIN BELOW GRADE HPC HIGH PRESSURE CONDENSATE HPS HIGH PRESSURE STEAM	LPC LOW PRESSURE CONDENSATE LPS LOW PRESSURE STEAM MPC MEDIUM PRESSURE CONDENSATE MPS MEDIUM PRESSURE STEAM STEAM TRAP	MA MEDICAL COMPRESSED AIR CO2 CARBON DIOXIDE H HELIUM N NITROGEN MEDICAL AIR OUTLET CARBON DIOXIDE OUTLET HELIUM OUTLET NITROGEN OUTLET NITROUS OXIDE OUTLET	N2O NITROUS OXIDE OX OXYGEN MV MEDICAL VACUUM WAGO WASTE ANESTHETIC GAS DISPOSAL OXYGEN OUTLET VACUUM OUTLET VACUUM SLIDE OUTLET WAGO OUTLET ZONE VALVE BOX, ARROW INDICATES VALVE ACCESS
SITE			
W WATER SERVICE CURB STOP VALVE SAN SANITARY SEWER (SITE) POST INDICATOR VALVE POST INDICATOR VALVE W/ TAMPER SWITCH FM BUILDING SPRINKLER FIRE MAIN SS STORM SEWER (SITE) SD STORM DRAIN (SITE) THRUST BLOCK LS LAWN SPRINKLER WATER MAIN WELL YHT YARD HYDRANT TREE	WIRE FENCE GAR GAS RISER GM GAS METER ER ELECTRICAL RISER SB SWITCH BOX PRP PROPERTY CORNER CONTROL POINT BENCHMARK MLB MAIL BOXES WDP WOODEN POST TIE DOWN CONCRETE GRAVEL		

ABBREVIATIONS

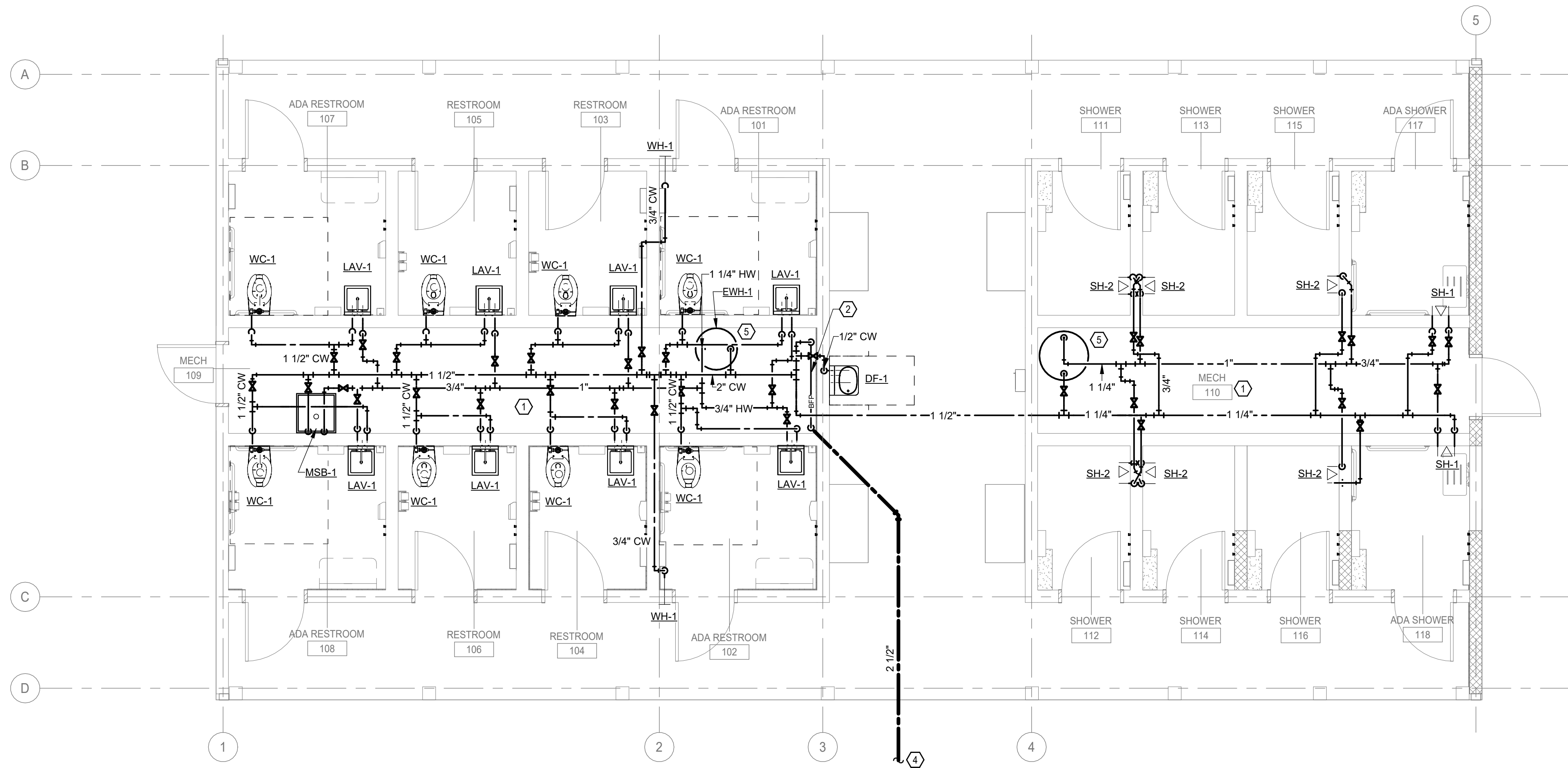
GENERAL	MECHANICAL
& AND A AMPERES AD ACCESS DOOR ADA AMERICANS WITH DISABILITIES ACT ADJ ADJUSTABLE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE ALT ALTERNATE ANSI AMERICAN NATIONAL STANDARDS INSTITUTE AP ACCESS PANEL ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS AUTO AUTOMATIC BFR BELOW FLOOR BHP BREAK HORSE POWER CAP CAPACITY CONT CONTINUOUS DEG DEGREE DIA DIAMETER DN DOWN DTL DETAIL DWG DRAWING EC ELECTRICAL CONTRACTOR EFF EFFICIENCY ELEC ELECTRIC(AL) EQUIP EQUIPMENT EXIST EXISTING FF FINISHED FLOOR FS FLOW SWITCH FT FEET (FOOT) GYP GYPSUM HOA HAND-OFF-AUTOMATIC HP HORSEPOWER HT HEIGHT IN INCHES KA KILOAMPERE KW KILOWATT LBS POUNDS LF LINEAR FOOT (FEET) MAX MAXIMUM MC MECHANICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPACITY MECH MECHANICAL MFR MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS MOCP MAXIMUM OVERCURRENT PROTECTION N/A NOT APPLICABLE NC NORMALLY CLOSED NEC NATIONAL ELECTRIC CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NIC NOT IN CONTRACT NO NORMALLY OPEN NTS NOT TO SCALE OC ON CENTER OFC OWNER FURNISHED CONTRACTOR INSTALLED OFOI OWNER FURNISHED OWNER INSTALLED PEMB PRE-ENGINEERED METAL BUILDING PH PHASE PLBG PLUMBING RCP REFLECTED CEILING PLAN REF REFERENCE REV REVISION(S) RPM REVOLUTIONS PER MINUTE SCCR SHORT CIRCUIT CURRENT RATING SHT SHEET SPEC SPECIFICATIONS SS STAINLESS STEEL STR STRUCTURAL (STRUCTURE) TC TIME CLOCK TCP TEMPERATURE CONTROL PANEL TEMP TEMPERATURE TYP TYPICAL UG UNDERGROUND UL UNDERWRITERS LABORATORIES UNO UNLESS NOTED OTHERWISE V VOLTAGE (VOLTS) VFC VARIABLE FREQUENCY CONTROLLER VFD VARIABLE FREQUENCY DRIVE W WATT °F DEGREES FAHRENHEIT Ø DIAMETER Φ PHASE	A/C AIR CONDITIONING AHRI AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE APD AIR PRESSURE DROP ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS BAS BUILDING AUTOMATION SYSTEM BFF BELOW FINISHED FLOOR BFP BACK FLOW PREVENTER BFV BUTTERFLY VALVE BMS BUILDING MANAGEMENT SYSTEM BTUH BRITISH THERMAL UNIT PER HOUR BV BALL VALVE CFM CUBIC FEET PER MINUTE CO CLEAN OUT DB DRY BULB DBA DECIBEL A-SOUND LEVELS DDC DIRECT DIGITAL CONTROLS DG DOOR GRILLE DPS DIFFERENTIAL PRESSURE SWITCH DTR DUCT THROUGH ROOF EAT ENTERING AIR TEMPERATURE EER ENERGY EFFICIENCY RATIO ESP EXTERNAL STATIC PRESSURE EWT ENTERING WATER TEMPERATURE EXH EXHAUST FLEX FLEXIBLE FME FLOW MEASURING EQUIPMENT FPI FINS PER INCH GPM FEET PER MINUTE G/E GREASE EXHAUST AIR GAL GALLON GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GV GATE VALVE HVAC HEATING VENTILATING AND AIR CONDITIONING IE INVERT ELEVATION IN WC INCHES OF WATER COLUMN L/E LABORATORY EXHAUST AIR LAT LEAVING AIR TEMPERATURE LWT LEAVING WATER TEMPERATURE M/A MIXED AIR MAV MANUAL AIR VENT MBH THOUSAND BTU PER HOUR NC NOISE CRITERIA NSF NATIONAL SANITATION FOUNDATION OS&Y OUTSIDE SCREW AND YOKE PTI PRESSURE/TEMPERATURE TEST PORT PD PRESSURE DROP PDI PLUMBING AND DRAINAGE INSTITUTE PG PRESSURE GAUGE PSI POUNDS PER SQUARE INCH RH RELATIVE HUMIDITY SD SMOKE DETECTOR SEER SEASONAL ENERGY EFFICIENCY RATING SENS SENSIBLE SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION SP STATIC PRESSURE T/A TRANSFER AIR TC TEMPERATURE CONTROL TDH TOTAL DYNAMIC HEAD TS TEMPERATURE SENSOR TSP TOTAL STATIC PRESSURE VAV VARIABLE AIR VOLUME VENT VENTILATION VTR VENT THROUGH ROOF VTW VENT THROUGH WALL WB WET BULB WFMD WATER FLOW MEASURING DEVICE

GENERAL SHEET NOTES

- A. DO NOT ROUTE ITEMS OVER ELECTRICAL PANELS. PROVIDE 3'-6" CLEARANCE IN FRONT OF ELECTRICAL PANELS AND DEVICES FROM FLOOR TO 6'-6" OR TOP OF PANEL AS PER CODE REQUIREMENTS.
- B. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL OFFSETS REQUIRED FOR COMPLETE SYSTEM.
- C. UNLESS NOTED/SHOWN OTHERWISE, ALL DUCTWORK AND PIPING SHALL BE RUN AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE WHERE FEASIBLE. RUN DUCTS AND PIPING UP IN JUST SPACE WHERE INDICATED AND AS REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTORS PRIOR TO INSTALLATION. VALVES AND OTHER MAINTENANCE ITEMS SHALL NOT BE INSTALLED HIGHER THAN 2 FEET ABOVE CEILINGS.
- D. LOCATE EQUIPMENT TO ALLOW ACCESS FOR ADJUSTMENT AND SERVICING. REFER TO INSTALLATION MANUALS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THESE DRAWINGS. LOCATE HANGING EQUIPMENT WITHIN THE SPACE SO THAT MAINTENANCE ACCESS IS PROVIDED FROM BELOW, AND MAINTENANCE AREA AROUND AND ACCESS AREA BELOW IS FREE OF OBSTRUCTIONS INCLUDING PIPING, DUCTWORK, CONDUIT OR OTHER BUILDING ELEMENTS.
- E. ROUTE ALL PIPING IN MECHANICAL ROOMS TO PROVIDE A MINIMUM OF 8'-0" CLEARANCE FROM BOTTOM OF DUCT, PIPE, INSULATION, OR HANGERS TO FINISHED FLOOR. DO NOT INSTALL PIPING IN THE SERVICE AREA FOR EQUIPMENT INSTALLED BY OTHERS.
- F. DASHED LINES AROUND EQUIPMENT INDICATE MINIMUM REQUIRED SERVICE CLEARANCES. DO NOT INSTALL HVAC, PIPING, AND ELECTRICAL ITEMS IN THESE AREAS.
- G. COORDINATE UNDERGROUND PIPING WITH STRUCTURAL FOOTINGS, SITE UTILITIES SERVICES, AND BUILDING SERVICES. FIELD VERIFY LOCATION OF ALL UTILITIES AND EXACT DIMENSIONS DURING BIDDING PORTION OF PROJECT. NOTIFY ANY DISCREPANCY OR INTERFERENCE TO ENGINEER.
- H. ALL DUCT FITTINGS WHERE TURN IS GREATER THAN 30-DEGREES SHALL BE PROVIDED WITH TURNING VANES UNLESS NOTED OTHERWISE.
- I. PROVIDE A MASONRY WALL LINTEL AT ALL BLOCK OR BRICK WALL PENETRATIONS WIDER THAN 12". COORDINATE MASONRY WALL LINTEL LOCATIONS WITH STRUCTURAL PLANS.
- J. NEW THERMOSTATS AND SENSORS SHALL BE LOCATED ON WALL NEAR LOCATION SHOWN. LOCATE ON WALL WITH CENTER AT 3'-8" ABOVE FINISH FLOOR, MATCHING LIGHT FIXTURE SWITCH HEIGHT, UNLESS NOTED OTHERWISE.
- K. ALL DUCT SEAMS SHALL BE SEALED.
- L. KEEP ALL DUCT OPENINGS AND AIR DEVICES COVERED AIR-TIGHT UNTIL ALL DUST CREATING ACTIVITY HAS BEEN FINISHED AND EQUIPMENT IS READY FOR START-UP.
- M. DUCTWORK TO DIFFUSER SHALL MATCH DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
- N. EQUIPMENT ON ROOF SHALL BE INSTALLED A MINIMUM OF 10'-0" AWAY FROM EDGE OF ROOF.

MECHANICAL SHEET LIST

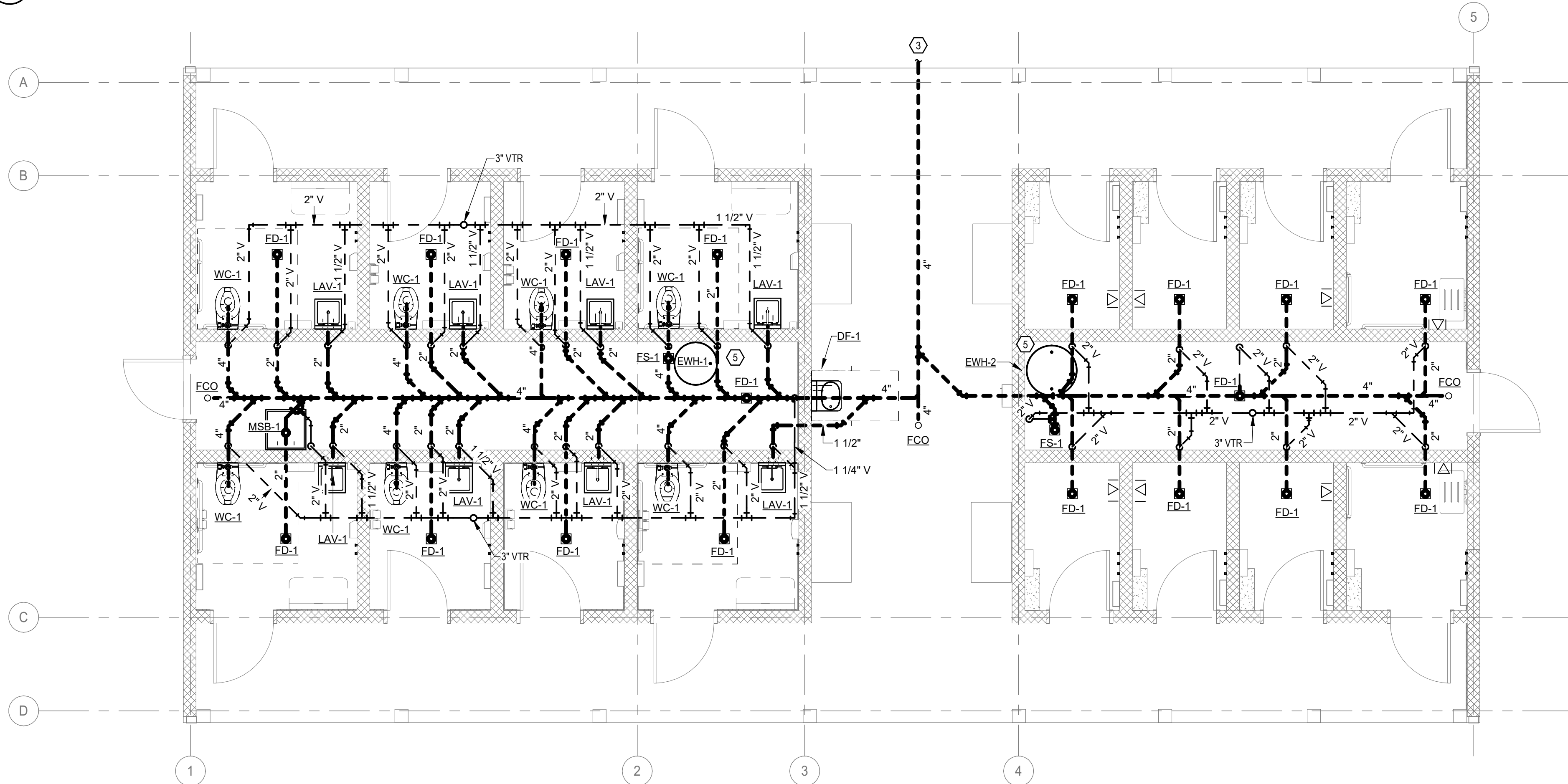
SHEET NO.	SHEET NAME
P-001.A	GENERAL PLUMBING AND MECHANICAL INFORMATION
P-101.A	PLUMBING PLANS
P-501.A	PLUMBING DETAILS
P-601.A	PLUMBING SCHEDULES
M-101.A	HVAC PLAN
M-601.A	MECHANICAL SCHEDULES AND DETAILS



1

DOMESTIC WATER PLUMBING PLAN

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



2

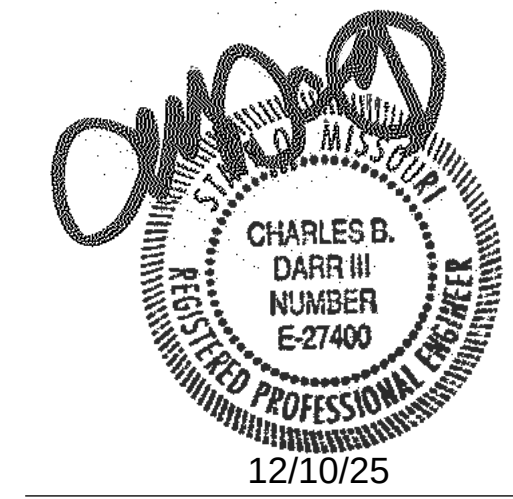
SANITARY AND VENT PLUMBING PLAN

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

SHEET KEYNOTES

1. DOMESTIC WATER PIPING TO BE SLOPED TO ALLOW DRAIN DOWN FOR WINTERIZATION OF THE BUILDING. DRAINS TO BE ADDED AT LOW POINTS.
2. PROVIDE SHUT-OFF VALVE IN VERTICAL PIPE. SEE DETAIL 6/P-501.
3. SANITARY DRAIN PIPE BUILDING EXIT. REFER TO CIVIL SHEETS FOR DESIGN OF SANITARY PIPING BEYOND THE BUILDING.
4. DOMESTIC WATER PIPE BUILDING ENTRANCE. REFER TO CIVIL SHEETS FOR DESIGN OF DOMESTIC WATER PIPING BEYOND BUILDING.
5. WATER HEATER TO BE INSTALLED ON A WATER HEATER PLATFORM. SEE SCHEDULE FOR INFORMATION ON WATER HEATER PLATFORM.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

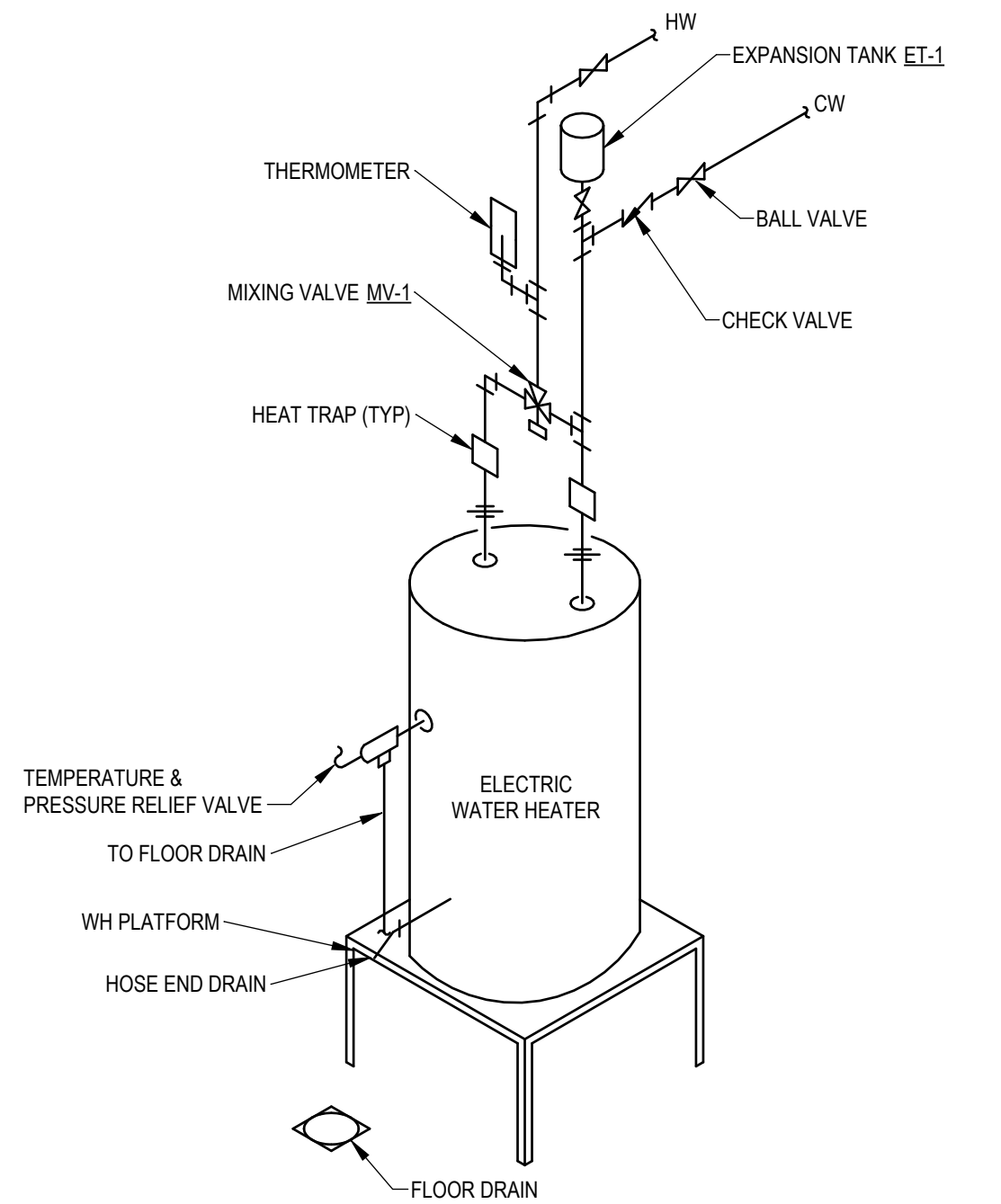
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

SHEET TITLE:
PLUMBING PLANS

SHEET NUMBER:

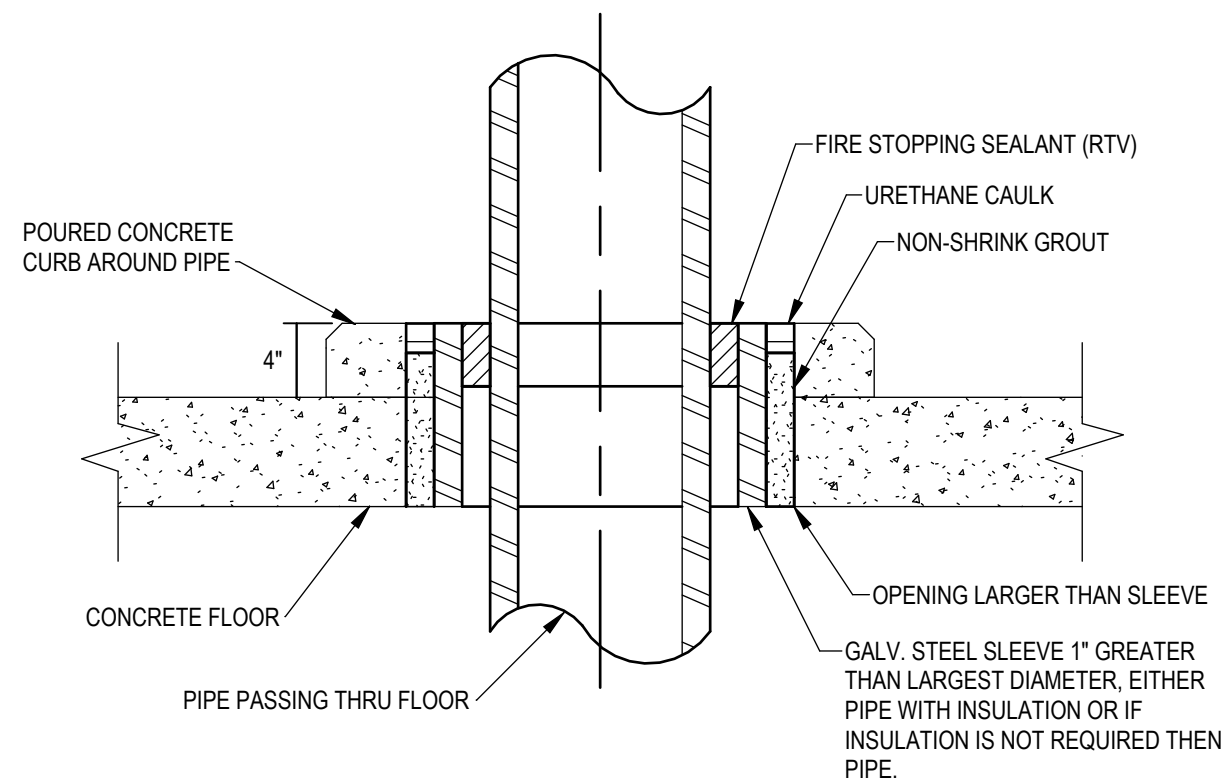
P-101.A



NOTE:
1. SEE SCHEDULES FOR INFORMATION ON DOMESTIC WATER HEATER EWH-1, EWH-2, EXPANSION TANK ET-1, MIXING VALVE MV-1, AND WH PLATFORM.

1 WATER HEATER PIPING DETAIL

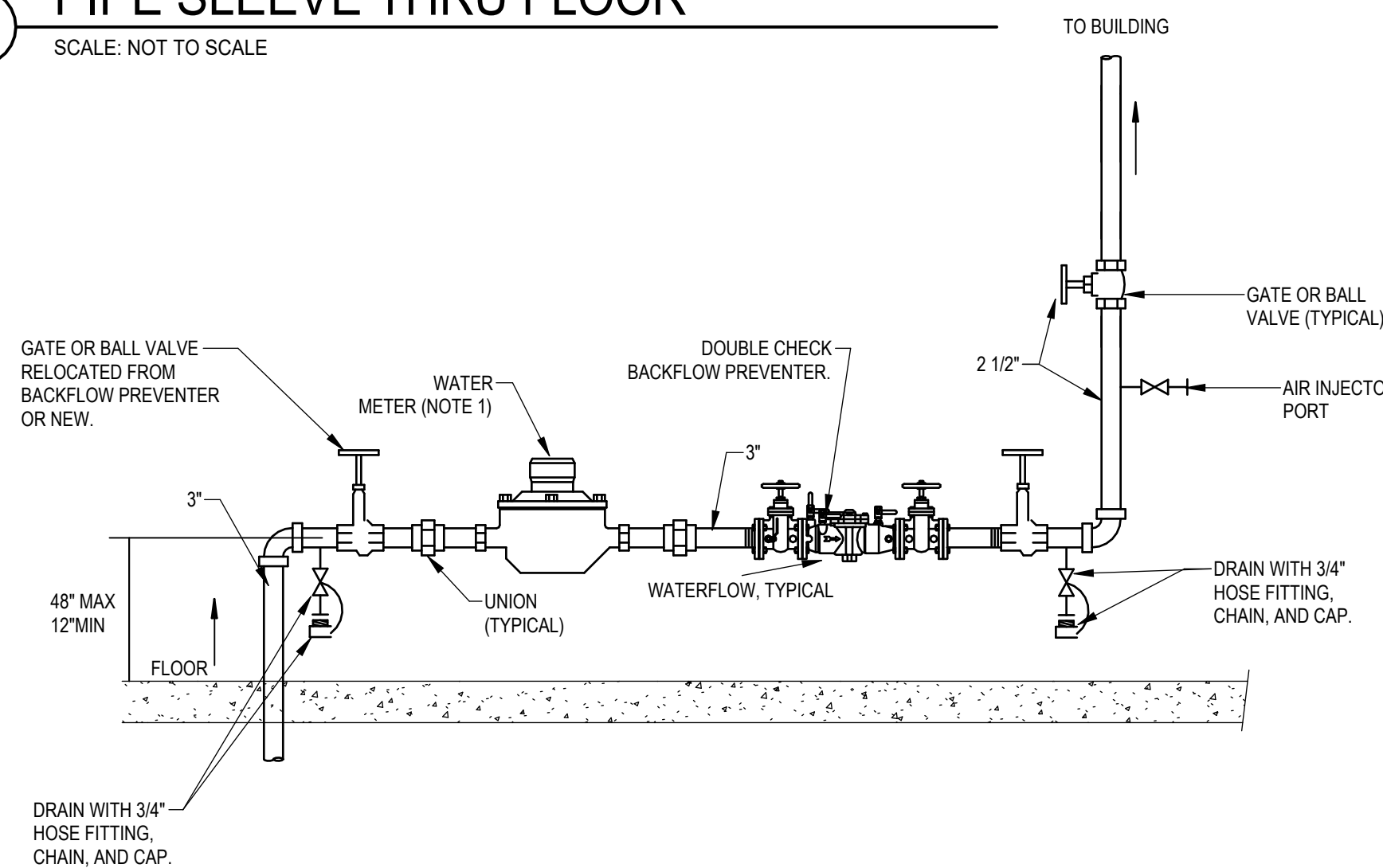
SCALE: NOT TO SCALE



NOTES:
1. SLEEVES ARE NOT REQUIRED FOR CORE-DRILLED HOLES.

4 PIPE SLEEVE THRU FLOOR

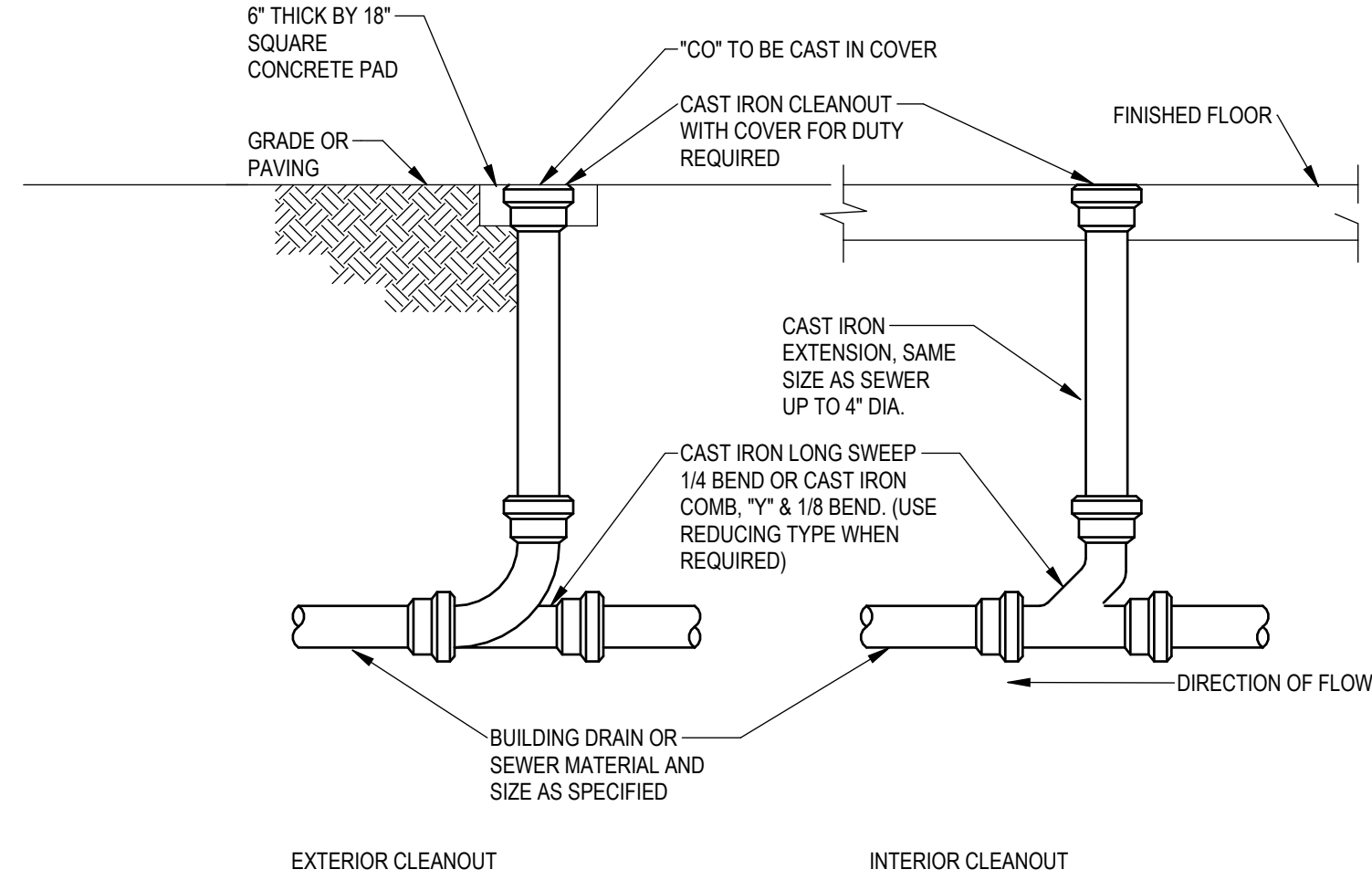
SCALE: NOT TO SCALE



NOTES:
1. METER SHALL BE PROVIDED WITH REMOTE EXTERIOR WALL MOUNTED READOUT. VERIFY METER TYPE AND UNIT OF MEASURE WITH UTILITY.

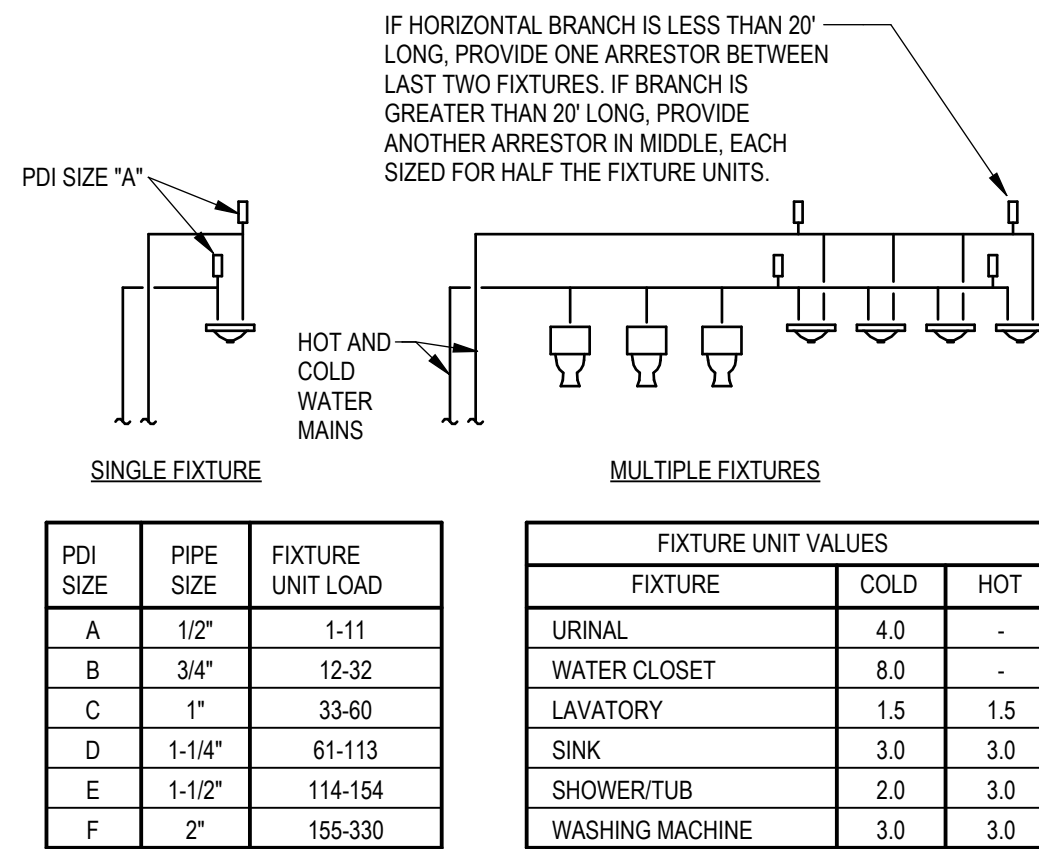
6 DOMESTIC WATER ENTRANCE

SCALE: NOT TO SCALE



2 TYPICAL CLEANOUTS

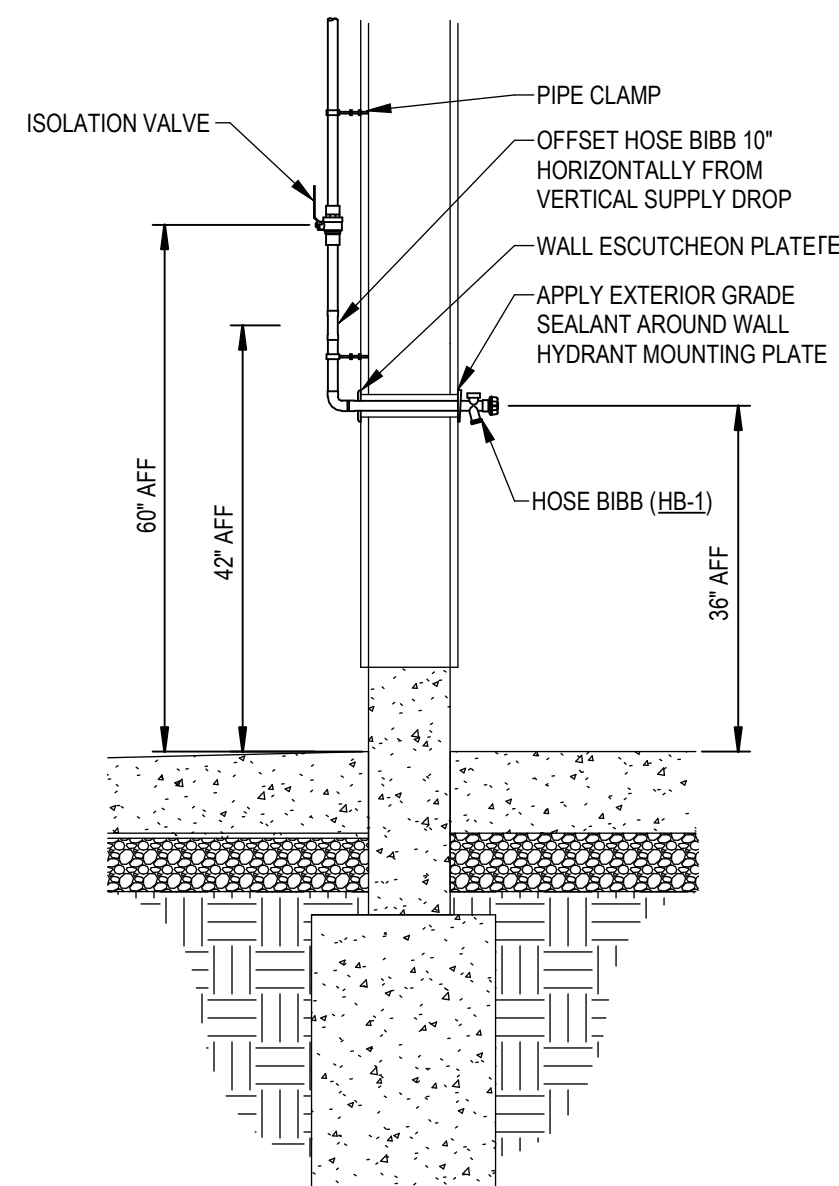
SCALE: NOT TO SCALE



NOTES:
1. PROVIDE WATER HAMMER ARRESTORS.
2. INSTALL IN HORIZONTAL OR VERTICAL POSITION.
3. SIZE THE UNITS AS SHOWN ON THE DRAWING AND/OR THE TABLES SHOWN ABOVE.
4. INSTALL PER PDI STANDARDS AND MANUFACTURES RECOMMENDATIONS.

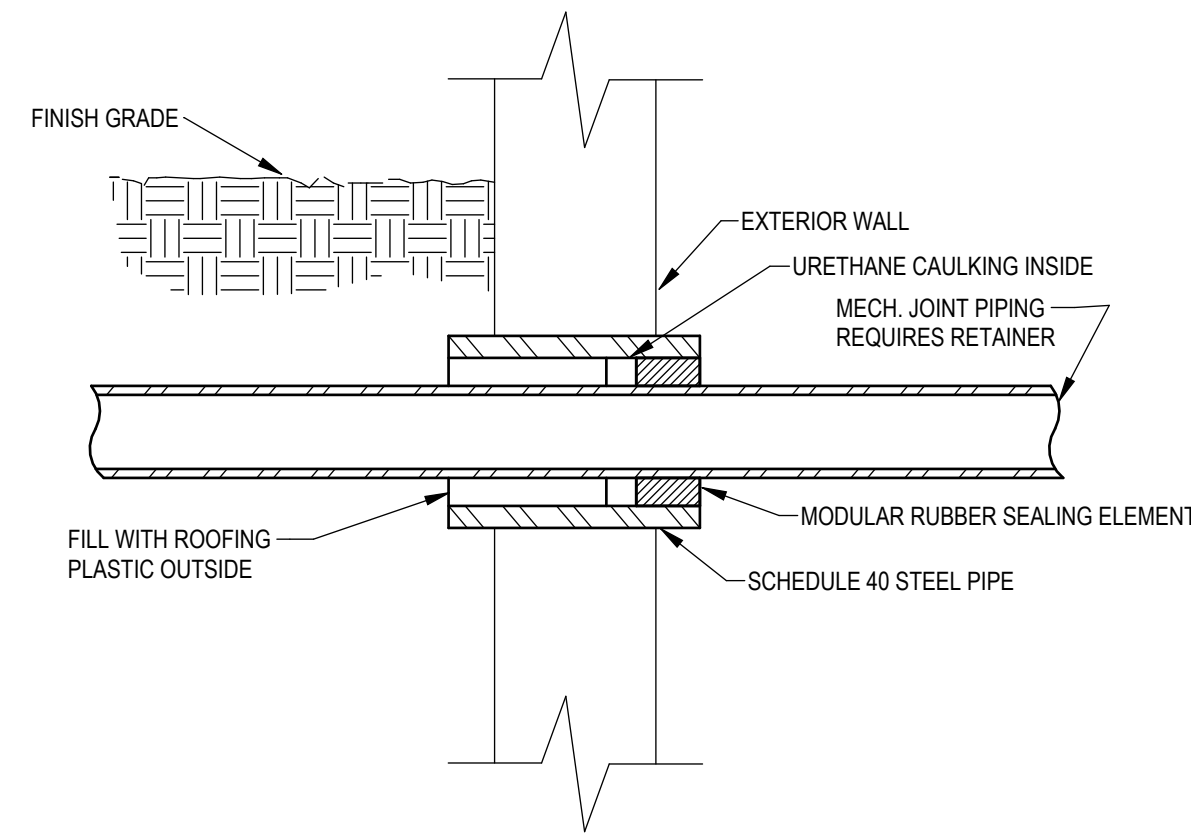
5 WATER HAMMER ARRESTOR DETAIL

SCALE: NOT TO SCALE



7 WALL HYDRANT/HOSE BIBB DETAIL

SCALE: NOT TO SCALE



NOTES:
1. IF PIPING PASSES THROUGH WALL ABOVE GRADE, SLEEVE SHALL BE FLUSH WITH EXTERIOR SIDE OF WALL.
2. SLEEVES ARE NOT REQUIRED FOR CORE-DRILLED HOLES.

3 PIPE SLEEVE THRU EXTERIOR WALL

SCALE: NOT TO SCALE

BUILDING WINTERIZATION CHECKLIST:

- TURN OFF ELECTRIC WATER HEATERS EWH-1 AND EWH-2 AT THE BREAKER.
- CLOSE DOMESTIC WATER ISOLATION VALVE AT METER AND OPEN DRAIN VALVE AFTER BACKFLOW PREVENTER.
- DRAIN WATER HEATER AFTER IT COOLS DOWN.
- FLUSH TOILETS AND OPEN SINK FAUCETS TO DRAIN WATER IN VERTICAL PIPE RISERS.
- CLOSE DRAIN VALVE AND UTILIZE AIR INJECTION PORT TO BLOW OUT ALL PIPING BRANCHES.
- POUR NON-TOXIC ANTI-FREEZE INTO THE DRINKING FOUNTAIN DRAIN TO PROTECT TRAP FROM FREEZING.
- VERIFY UNIT HEATERS ARE OPERATIONAL. ATTACH REMOVABLE INSULATED COVERS TO ALL DOOR GRILLES.
- TURN OFF EXHAUST FANS EF-1 AND EF-2 AT THE BREAKER.

BUILDING DE-WINTERIZATION CHECKLIST:

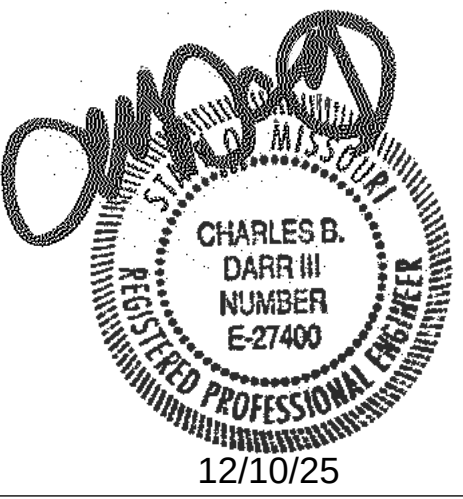
- CLOSE DRAIN VALVE AFTER WATER METER AND OPEN ISOLATION VALVE. SLOWLY AT WATER METER TO FILL SYSTEM.
- FLUSH TOILETS AND OPERATE SINK FAUCETS TO REMOVE AIR FROM THE SYSTEM PIPING.
- TURN ELECTRIC WATER HEATERS EWH-1 AND EWH-2 ON AT THE BREAKER. DO NOT TURN THE WATER HEATERS ON BEFORE THE SYSTEM IS FILLED WITH WATER.
- REMOVE COVERS FROM DOOR GRILLES.
- TURN EF-1 AND EF-2 ON AT THE BREAKER.

NOTE:
1. PROVIDE LAMINATED WINTERIZATION CHECKLIST SIGN AND PERMANENTLY ATTACH TO WALL ABOVE WATER METER IN HIGHLY VISIBLE LOCATION.
2. BUILDING HAS TO BE WINTERIZED BEFORE FREEZING TEMPERATURES START.

8 BUILDING WINTERIZATION CHECKLIST SIGN

SCALE: NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:

P-501.A

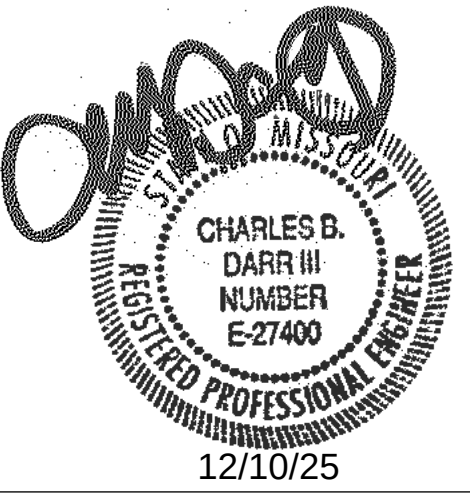
olsor

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

CAD DWG FILE:
DRAWN BY: OG
CHECKED BY: MP
DESIGNED BY: OG

P-601.A

WATER HEATERS (ELECTRIC)												
MARK	LOCATION	TYPE	STORAGE (GAL.)	RECOVERY (GPH)	TEMP RISE (°F)	TEMP SETTING (°F)	ELECTRICAL DATA		INPUT (KW)	NUMBER OF ELEMENTS	MANUFACTURER & MODEL	REMARKS
							V	PH				
EWH-1	MECH 109	ELECTRIC	40	20	85	140	240	1	4.5	2	AO SMITH DEN-30	1,2,3,5,6,7
EWH-2	MECH 110	ELECTRIC	120	176	85	140	240	1	30	6	AO SMITH DVE-120-30	1-4,6,7
REMARKS: 1. FURNISHED WITH ANODE ROD, HIGH LIMIT RESET, DRAIN VALVE, AND T&P RELIEF. 2. INSULATED TANK WITH 160 MAX PSI WORKING PRESSURE. 3. INSTALL THERMOMETER ON OUTLET OF HEATER. 4. PROVIDE 6.4 GALLON EXPANSION TANK (ET-1), AMTROL MODEL ST-12. 5. PROVIDE 2.0 GALLON EXPANSION TANK (ET-2), AMTROL MODEL ST-5. 6. PROVIDE MIXING VALVE, MV-1 HYDROGUARD MODEL LFLM491-6 7. PROVIDE 30" QUICKSTAND PLATFORM. MODEL #40-S-30-A												



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

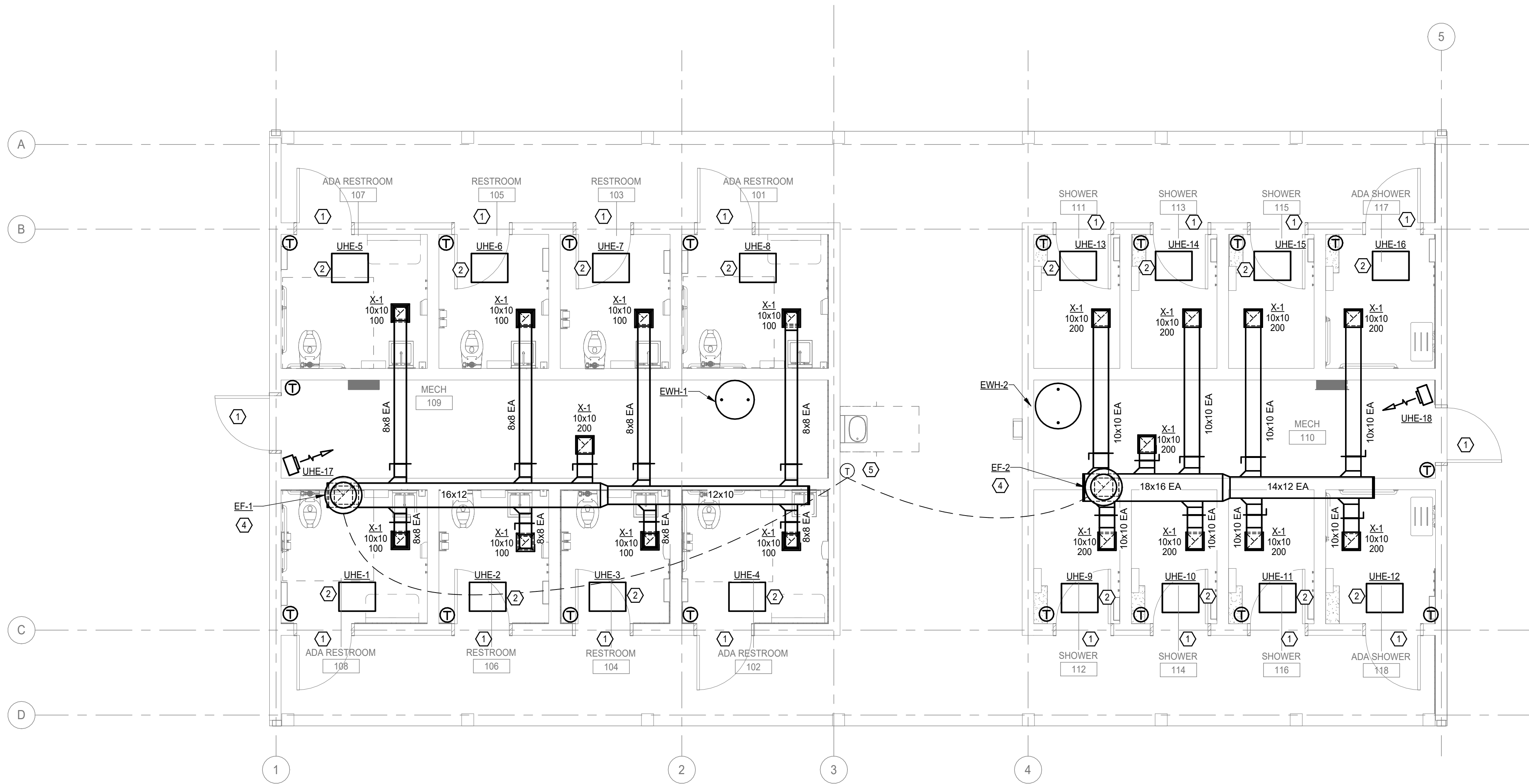
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

SHEET TITLE:
HVAC PLAN

SHEET NUMBER:

M-101.A

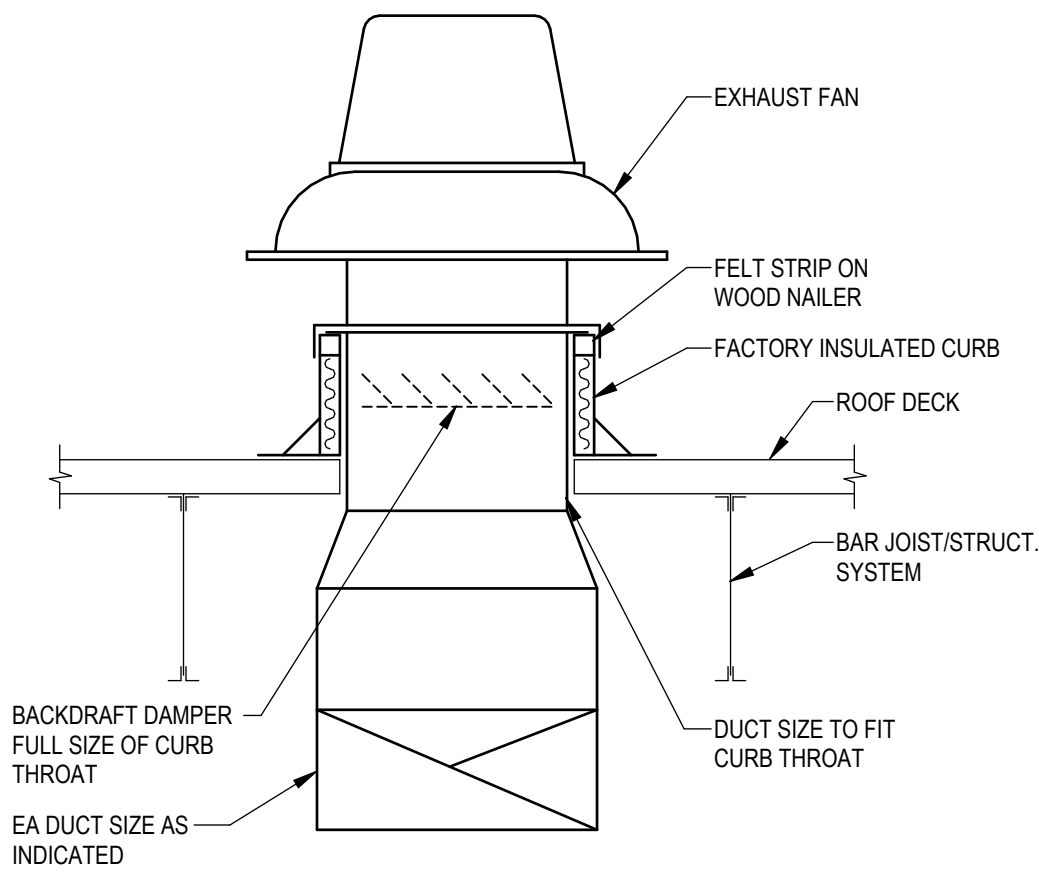


MECHANICAL HVAC PLAN

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

SHEET KEYNOTES

1. INSTALL TRANSFER GRILLE "TG-1" IN DOOR. REFER TO SCHEDULE. COORDINATE WITH ARCHITECTURAL DESIGN.
2. UNIT HEATER SUSPENDED ON FACTORY TILT BRACKET ASSEMBLY FROM THE CEILING.
3. PROVIDE GOOSENECK NON-RESTRICTIVE DRYER VENT THROUGH ROOF. DRYER JACK MODEL 486U.
4. REFER TO 1/M-601 FOR EXHAUST FAN DETAIL.
5. PROVIDE EXTERIOR MOUNTED THERMOSTAT. DISABLE ALL EXHAUST FANS OPERATION BELOW 32F.



1 EXHAUST FAN DETAIL
SCALE: NOT TO SCALE

UNIT HEATERS (ELECTRIC)

MARK	LOCATION	ELECTRIC COIL DATA	ELECTRICAL DATA			MOUNTING HEIGHT	MANUFACTURER & MODEL	REMARKS
		KW	VOLT	PH	HZ			
UHE-1	ADA RR 108	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-2	RR 106	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-2	RR 104	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-4	ADA RR 102	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-5	ADA RR 107	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-6	RR 105	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-7	RR 103	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-8	ADA RR 101	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-9	SHOWER 112	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-10	SHOWER 114	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-11	SHOWER 116	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-12	ADA SHOWER 118	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-13	SHOWER 11	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-14	SHOWER 113	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-15	SHOWER 115	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-16	ADA SHOWER 117	1.5	240	1	60	CEILING	QMARK FRP26S32MS01721D-QT3WT	1, 3, 4, 5, 6, 7
UHE-17	MECH 109	2.2	240	1	60	9'	DAYTON 804T10	1, 2, 4, 5, 6, 7
UHE-18	MECH 110	2.2	240	1	60	9'	DAYTON 804T10	1, 2, 4, 5, 6, 7
REMARKS: 1. POWER DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR. 2. WALL BRACKET SUPPORT KIT. 3. PROVIDE TILT BRACKET SUSPENSION KIT. 4. PROVIDE WITH EXTERNAL THERMOSTAT. WALL MOUNT WITH LOCKABLE USER INTERFACE. 5. WIRE GUARD FOR HEATERS. 6. MAINTAIN CLEARANCES PER MANUFACTURER'S INSTALLATION GUIDELINES. 7. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.								

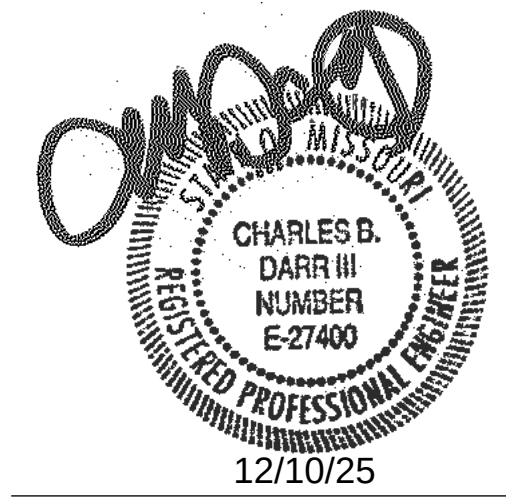
EXHAUST FANS

MARK	SERVES	CFM	FRPM	ESP	HP	MAX SONES	ELECTRICAL DATA			TYPE	OPERATED BY	MANUFACTURER & MODEL	REMARKS
							VOLT	PH	HZ				
EF-1	RESTROOMS	1000	1124	0.25	0.5	12.1	120	1	60	DIRECT	CONTINUOUSLY	GREENHECK G-120-VG	ALL
EF-2	SHOWERS	1800	1124	0.25	0.5	12.1	120	1	60	DIRECT	CONTINUOUSLY	GREENHECK G-140-VG	ALL
REMARKS: 1. PROVIDE BACKDRAFT DAMPER, VIBRATION ISOLATION, SPEED CONTROLLER AND DISCONNECT SWITCH. 2. FAN SHALL OPERATE CONTINUOUSLY WHEN AMBIENT TEMPERATURE IS ABOVE 32 DEG. F. PROVIDE BI-METALLIC THERMOSTAT SWITCH SET TO 32 DEG. F AND NOT ADJUSTABLE.													

AIR DISTRIBUTION DEVICES

MARK	SERVES	MOUNT	COLOR	NECK SIZE (INCH)	PATTERN	MAX NC	MAX PD IN WC	MANUFACTURER & MODEL	REMARKS
X-1	EXHAUST	SURFACE	WHITE	SEE PLANS	FIXED BLADES	25	0.1	TITUS 350FL	1
TG-1	TRANSFER/ MAKE-UP	DOOR	NOTE 4	12 X 12	FIXED BLADES	25	0.06	GREENHECK XG-DG 12X12	2, 3
REMARKS: 1. CONCEALED FASTENING. 2. MATCH FINISH OF DOOR. 3. NOISE CRITERIA AND PRESSURE DORP ARE FOR 300 CFM.									

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: _____ OG
CHECKED BY: _____ MP
DESIGNED BY: _____ OG

SHEET TITLE:
MECHANICAL
SCHEDULES AND
DETAILS

SHEET NUMBER:

M-601.A

GENERAL ELECTRICAL NOTES

- A. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES ARE TO BE FLUSH MOUNTED AND ALL WIRE AND CONDUITS ARE TO BE ROUTED CONCEALED. COORDINATE INSTALLATION WITH EXISTING CONDITIONS, INCLUDE PATCHING AND REFINISHING OF EXISTING SURFACES TO ACCOMMODATE THIS REQUIREMENT.
- B. PRIOR TO ROUGH-IN, COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE RESPECTIVE CONTRACTOR FURNISHING THE EQUIPMENT. THIS INCLUDES, BUT IS NOT LIMITED TO: MECHANICAL EQUIPMENT, ETC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR THE EQUIPMENT AND SHALL MAKE THE FINAL CONNECTION TO THE EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY EQUIPMENT THAT REQUIRES AN INTEGRAL CORD AND PLUG IF NOT PROVIDED WITH THE EQUIPMENT.
- C. WHERE A MECHANICAL RETURN AIR PLENUM SYSTEM IS PRESENT, ALL EQUIPMENT AND MATERIALS PROVIDED WITHIN THE PLENUM CEILING RETURN MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50 AND BE APPROVED FOR USE IN PLENUM RETURN CEILINGS. UNLESS OTHERWISE NOTED, METAL HOUSINGS ON LUMINAIRES ARE ACCEPTABLE WITHIN THE PLENUM AND SHALL NOT REQUIRE ENHANCED PLENUM RATINGS.
- D. ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE MINIMUM NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHER RESISTANT. EXTERIOR RECEPTACLES OR RECEPTACLES IN DAMP OR WET LOCATIONS SHALL BE PROVIDED WITH WEATHERPROOF "WHILE-IN-USE" COVERS.
- E. #12 AWG SHALL BE USED AS A STANDARD 120V CIRCUIT. WHERE A CIRCUIT EXCEEDS 75', #10 AWG SHALL BE USED. WHERE A CIRCUIT EXCEEDS 125', #8 AWG SHALL BE USED FOR FIRST 75' MINIMUM.
- F. UNLESS OTHERWISE NOTED, MINIMUM CONDUIT SIZE FOR BRANCH CIRCUITS SHALL BE 3/4" EMT. REFER TO FLOOR PLANS, DETAILS, AND SPECIFICATIONS FOR ANY LOCATIONS WHERE LARGER CONDUIT SIZES ARE REQUIRED.
- G. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT (LIGHTING, POWER, ETC.) SERVED BY A SINGLE POLE CIRCUIT BREAKER. SHARED NEUTRALS ARE NOT ALLOWED. PROVIDE NEUTRAL CONDUCTOR FOR MECHANICAL EQUIPMENT WHERE REQUIRED, REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR REQUIREMENTS.
- H. PROVIDE A GREEN INSULATED GROUND WIRE FOR EACH BRANCH CIRCUIT (LIGHTING, POWER, ETC.).
- I. WHERE FLEXIBLE METALLIC CONDUIT (FMC) IS ALLOWED BY THESE CONTRACT DOCUMENTS AND LOCAL BUILDING CODES, LENGTH SHALL NOT EXCEED 6FT.
- J. WHERE CONDUIT ROUTES EXPOSED IN OPEN CEILING AREA, CONDUIT SHALL BE PAINTED TO MATCH CEILING SURFACE. COORDINATE EXACT FINISH WITH ARCHITECT. LIMIT JUNCTION BOXES WITHIN OPEN CEILING AREA.
- K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY EQUIPMENT OR FIXTURES THAT BECOME DAMAGED PRIOR TO RE-INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER.
- L. THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LOCALLY ADOPTED EDITION OF NFPA 70 (NEC) AND ALL APPLICABLE LOCALLY ADOPTED BUILDING AND ENERGY CODES.
- M. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SLEEVES THROUGH WALLS AND FLOORS TO ALLOW FOR THE ROUTING OF TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS CABLING. REVIEW ROUTING WITH LOW VOLTAGE CONTRACTOR FOR SLEEVE LOCATIONS AND REQUIREMENTS.
- N. MECHANICAL CONTROLS SHALL BE INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL RACEWAYS AND BOXES ASSOCIATED WITH MECHANICAL CONTROLS. FOR EACH THERMOSTAT PROVIDE JUNCTION BOX WITH ONE (1) 3/4" CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE ADDITIONAL 3/4" CONDUIT FROM EACH TEMPERATURE CONTROL CABINET TO NEAREST CORRIDOR CABLE TRAY WHERE APPLICABLE, OR TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING. REFER TO MECHANICAL FLOOR PLANS FOR ALL WALL CONTROL LOCATIONS AND QUANTITIES.

GENERAL LIGHTING NOTES

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS AND DIMENSIONS OF ALL CEILING MOUNTED DEVICES. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- B. SUPPORT ALL RECESSED AND PENDANT MOUNTED FIXTURES FROM STRUCTURE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. SUSPENDED CEILING MOUNTING SYSTEMS SHALL NOT BE USED TO SUPPORT FIXTURES OR RACEWAYS.
- C. PROVIDE ENCLOSURES AROUND RECESSED LIGHTING FIXTURES AS REQUIRED SO THAT ALL CODE REQUIRED CLEARANCES BETWEEN COMBUSTIBLE MATERIALS, THERMAL INSULATION, ETC. AND LIGHTING FIXTURES ARE MAINTAINED. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- D. PROVIDE POWER PACK AND/OR RELAYS AS NECESSARY FOR ALL OCCUPANCY SENSORS, LOW VOLTAGE WALL CONTROLLERS, OR OTHER SENSORS/DEVICES WHERE REQUIRED BY MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ALL LOW VOLTAGE CABLING AND ALL DEVICES/CONNECTIONS NECESSARY FOR A COMPLETE, WORKING INSTALLATION, AND PER MANUFACTURER'S REQUIREMENTS.
- E. CONNECT BATTERY SENSING LEADS FOR EMERGENCY LIGHTING UNITS AND INTEGRAL EMERGENCY BATTERY BALLASTS/DRIVERS AHEAD OF LOCAL SWITCHING.
- F. COORDINATE LOCATIONS OF LIGHT SWITCH HEIGHTS WITH CASEWORK, FURNITURE AND EQUIPMENT PLANS PRIOR TO ROUGH-IN TO AVOID ANY CONFLICTS.
- G. LIGHT FIXTURES SHOWN WITH EMERGENCY HATCHING SHALL BE CONTROLLED WITH NORMAL SOURCE LIGHT FIXTURES AND ASSOCIATED CONTROLS WITHIN COMMON SPACE. PROVIDE BATTERY BACKUP FOR EMERGENCY LIGHTING OVERRIDE. PROVIDE PER MANUFACTURER'S WIRING DIAGRAMS.
- H. COORDINATE FINAL FIXTURE LOCATIONS WITH MECHANICAL DUCTWORK AND STRUCTURAL COMPONENTS. DO NOT SUPPORT FIXTURES FROM DUCTWORK, SUPPORT FIXTURES ONLY FROM STRUCTURE.
- I. PROVIDE #12 AWG MINIMUM CONDUCTORS FOR ALL EXTERIOR LIGHTING CIRCUITS.
- J. PROVIDE BEAD OF SILICONE SEALANT AROUND RECESSED BACK BOX PERIMETER AT ALL BUILDING MOUNTED EXTERIOR LIGHT FIXTURE LOCATIONS.
- K. IN ALL ELECTRICAL, COMMUNICATIONS, AND MECHANICAL UTILITY ROOMS COORDINATE LOCATION OF LIGHT FIXTURES WITH EQUIPMENT PRIOR TO INSTALLATION.
- L. CEILING OCCUPANCY SENSORS: WHERE CEILING MOUNT SENSORS ARE MOUNTED IN LOCATIONS WITH DARK CEILING OR EXPOSED STRUCTURE FINISH, PROVIDE BLACK SENSOR COVER.

GENERAL POWER NOTES

- A. FULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL DEVICES WITH THE WORK OF OTHER TRADES. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR DEVICE MOUNTING HEIGHT AND LOCATION WHERE DEVICE IS TO BE INSTALLED IN CASEWORK. BACK-TO-BACK MOUNTING OF DEVICES IS NOT ACCEPTABLE IN A STANDARD 3-5/8" STUD WALL.
- B. UNLESS OTHERWISE NOTED, STANDARD ELECTRICAL RECEPTACLE DEVICES SHALL BE MOUNTED AT 18" A.F.F. REFER TO STANDARD MOUNTING HEIGHT DETAILS FOR OTHER DEVICE REQUIREMENTS.
- C. ALL 120V THROUGH 250V RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY 3-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE FOLLOWING LOCATIONS SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL:
- a. BATHROOMS AND RESTROOMS
 - b. ROOFTOPS
 - c. OUTDOORS
 - d. RECEPTACLES WITHIN 6FT OF A SINK
 - e. INDOOR DAMP AND WET LOCATIONS
 - f. LOCKER ROOMS WITH ASSOCIATED SHOWER FACILITIES
 - g. LAUNDRY AREAS
 - h. BATHTUBS AND SHOWER STALLS
 - i. OTHER LOCATIONS AS REQUIRED BY NEC 210.8
- D. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT, EXTEND PAD ON ALL SIDES MINIMUM 4' FOOTPRINT OF EQUIPMENT. WHERE MULTIPLE FLOOR MOUNTED EQUIPMENT ARE LOCATED ADJACENT TO ONE-ANOTHER, PAD SHALL BE CONTINUOUS ALONG ENTIRE EQUIPMENT LINEUP.

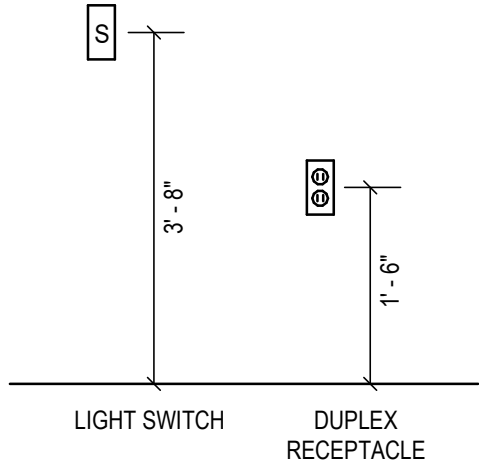
ELECTRICAL SHEET LIST	
SHEET NO.	SHEET NAME
E-001.A	GENERAL ELECTRICAL INFORMATION
E-002.A	ELECTRICAL SITE PLAN - MONTAUK LOOP 1
E-101.A	LIGHTING PLAN
E-201.A	POWER PLAN
E-701.A	ELECTRICAL SCHEDULES

ELECTRICAL SYMBOL LEGEND	
POWER DEVICES AND LIGHTING FIXTURES	
	DUPLEX RECEPTACLE; MOUNT AT 18" TO CENTER OF DEVICE AFF UNLESS OTHERWISE NOTED
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE WITH WHILE-IN-USE COVER
	SPECIAL-PURPOSE OUTLET, LETTER DESIGNATES TYPE
	WALL MOUNTED JUNCTION BOX
	SURFACE MOUNTED ELECTRICAL PANEL
	ELECTRICAL POWER TRANSFORMER
	NON-FUSED DISCONNECT SWITCH
	WALL-MOUNTED LIGHT FIXTURE; LABEL INDICATES FIXTURE TYPE
	STRIP LIGHT FIXTURE; LABEL INDICATES FIXTURE TYPE
	TYPICAL FIXTURE - ON EMERGENCY CIRCUIT
	BRANCH CIRCUIT, 2#12 AND 1#12 G IN 3/4" CONDUIT UNO
	FEEDER BELOW GRADE
	CEILING OR WALL-MOUNTED OCCUPANCY SENSOR
	PHOTOCELL, AS INDICATED ON PLANS
	SINGLE-POLE SWITCH

ABBREVIATIONS/MODIFIERS	
	SHEET NOTE TAG, LABEL INDICATES NOTE NUMBER
	FEEDER TAG
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
EF	EXHAUST FAN
EW H	ELECTRIC WATER HEATER
GF I	GROUND FAULT INTERRUPTER
NF	NON-FUSED
UHE	UNIT HEATER ELECTRIC
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER

NOTES:
TYPICAL MOUNTING HEIGHTS UNLESS OTHERWISE NOTED.

ADJUST MOUNTING HEIGHT TO BLOCK COURSING.



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT # X2530-01
SITE # 5307
ASSET # 7815307024

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

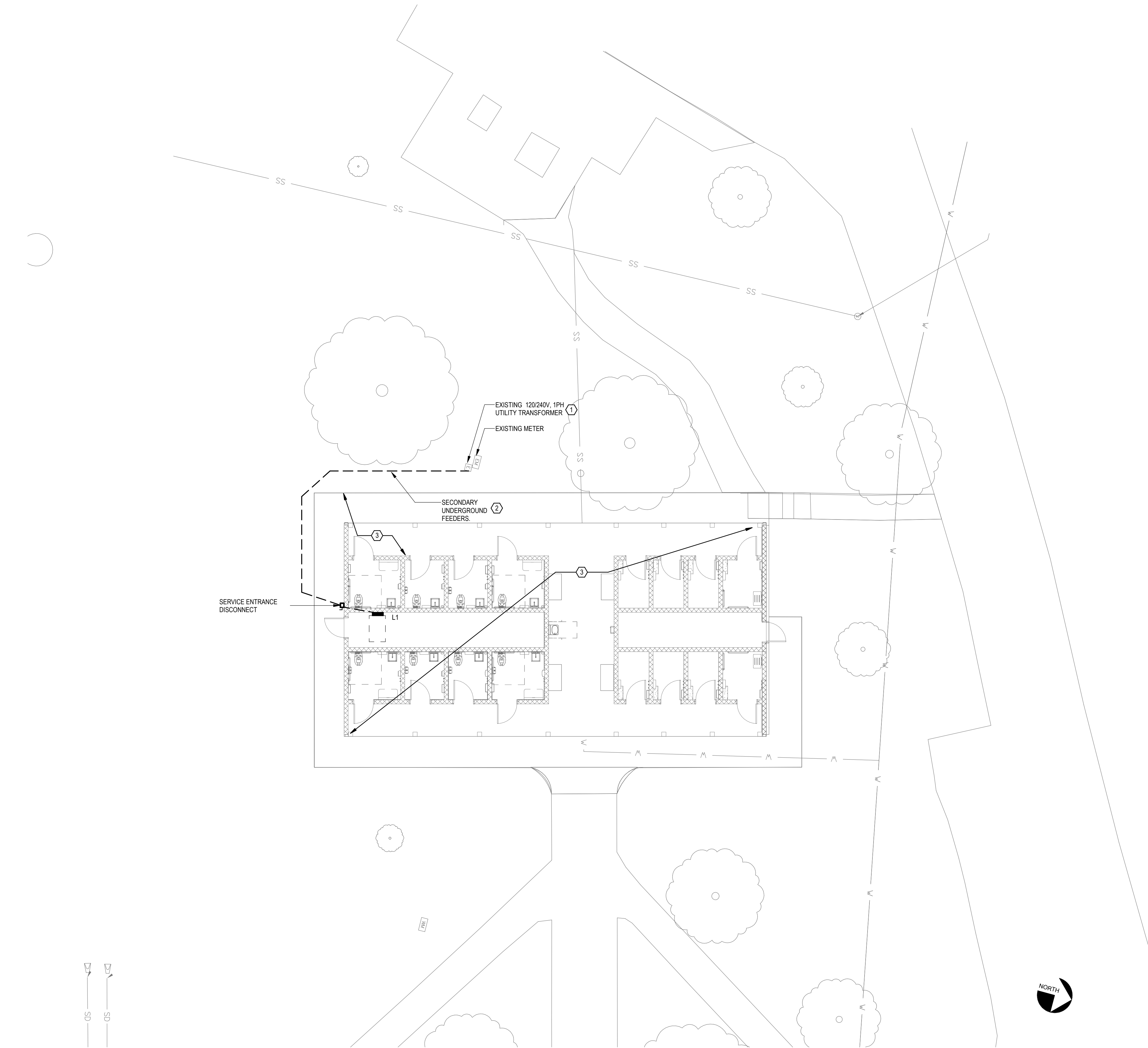
CAD DWG FILE: _____
DRAWN BY: ERR
CHECKED BY: KC
DESIGNED BY: ERR

SHEET TITLE:

GENERAL
ELECTRICAL
INFORMATION

SHEET NUMBER:

E-001.A



1 ELECTRICAL SITE PLAN - MONTAUK LOOP 1
SCALE: 1/8" = 1'-0"

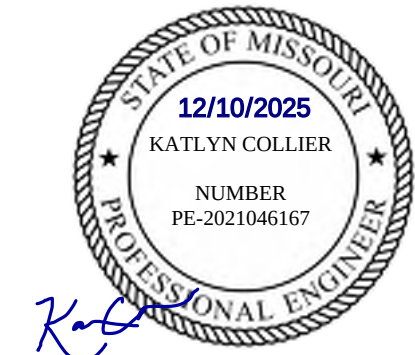
GENERAL SHEET NOTES

- A. CONTRACTOR SHALL COORDINATE PLACEMENT AND ROUTING OF CONDUITS WITH UTILITY COMPANY PRIOR TO INSTALLATION. COORDINATE EXACT CONDUIT SIZES AND QUANTITIES WITH UTILITY COMPANY PRIOR TO INSTALLATION.
- B. COORDINATE WITH ROUTING OF OTHER OTHER UNDERGROUND UTILITIES AND EXISTING SITE CONDITIONS PRIOR TO INSTALLATION.
- C. UTILITY CONTACT INFORMATION:
INTERCOUNTY ELECTRIC CO-OP
102 MAPLE AVE, LICKING MO 65542
DAVID WALKER
EMAIL: david.walker@ieca.coop
PHONE: 1(573)-674-2211

xx SHEET KEYNOTES

1. EXISTING TRANSFORMER FEEDS POWER EXISTING WOOD SHACK, GUARD SHACK, AND CAMPHOUSE SHALL REMAIN. PRIOR TO DEMOLITION, COORDINATE WITH UTILITY TO DISCONNECT THE WIRE FROM THE TRANSFORMER TO THE SHOWER HOUSE ONLY.
2. SECONDARY FEEDERS FROM EXISTING UTILITY TRANSFORMER TO SERVICE ENTRANCE DISCONNECT. REFER TO ONE-LINE DIAGRAM FOR WIRE AND CONDUIT SIZES.
3. EXISTING SHOWER HOUSE SHALL BE DEMOLISHED. SEE CIVIL SHEET C-101 FOR ADDITIONAL DETAILS. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE POWER SHUT OFF WITH THE PARK AND UTILITY. SAFELY DISCONNECT AND DISPOSE OF ALL ELECTRICAL EQUIPMENT, FIXTURES, CONDUIT, AND WIRES.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307024

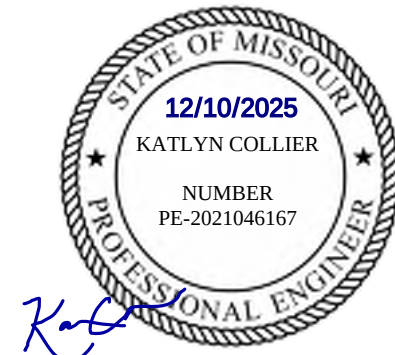
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: ERR
CHECKED BY: KC
DESIGNED BY: ERR

SHEET TITLE:
ELECTRICAL SITE
PLAN - MONTAUK
LOOP 1

SHEET NUMBER:

E-002.A



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01

SITE # 5307

ASSET # 7815307024

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

REVISION: _____

DATE: _____

ISSUE DATE: 10/24/2025

CAD DWG FILE: _____

DRAWN BY: ERR _____

CHECKED BY: KC _____

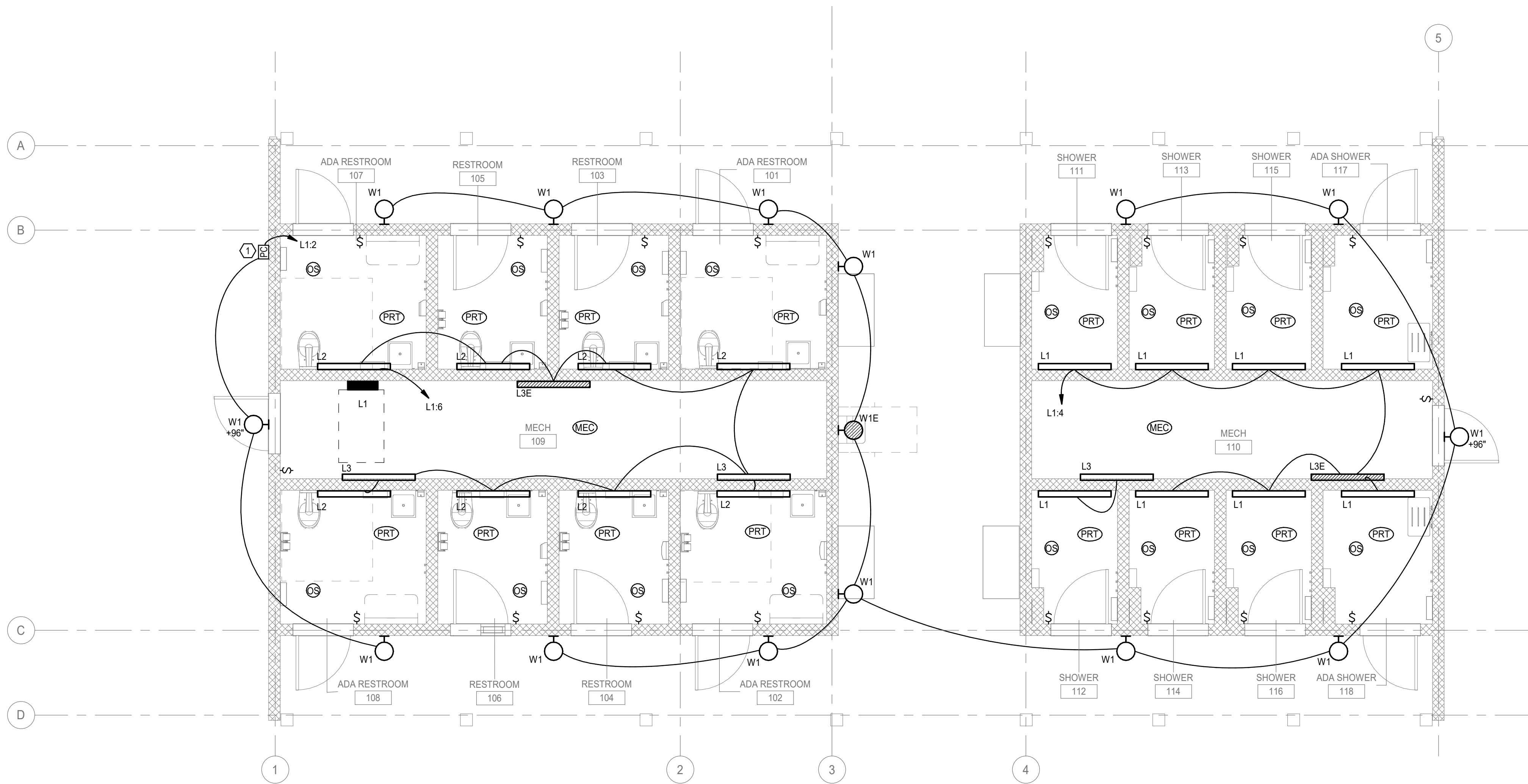
DESIGNED BY: ERR _____

SHEET TITLE:

LIGHTING PLAN

SHEET NUMBER:

E-101.A



SHEET KEYNOTES

1. MOUNT EXTERIOR PHOTOCELL ON NORTH SIDE OF BUILDING ROOF. ENSURE THERE ARE NO OBSTRUCTIONS TO THE SENSOR. LIGHTING PLAN IS A TYPICAL LAYOUT FOR EACH SITE, COORDINATE FINAL PLACEMENT OF PHOTOCELL BASED ON SITE ADAPTED LOCATIONS.

1 LIGHTING PLAN

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



550 East St. Louis Street
Springfield, MO 65806
olsson.com
TEL 417.890.8802
FAX 417.890.8805

olsson

Olsson - Engineering
Missouri COA #001592

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES,
STATE PARKS

CAMPGROUND SHOWER
HOUSE REPLACEMENTS
LOOP 1

MONTAUK STATE PARK
SALEM, MISSOURI

PROJECT #X2530-01
SITE # 5307
ASSET # 7815307024

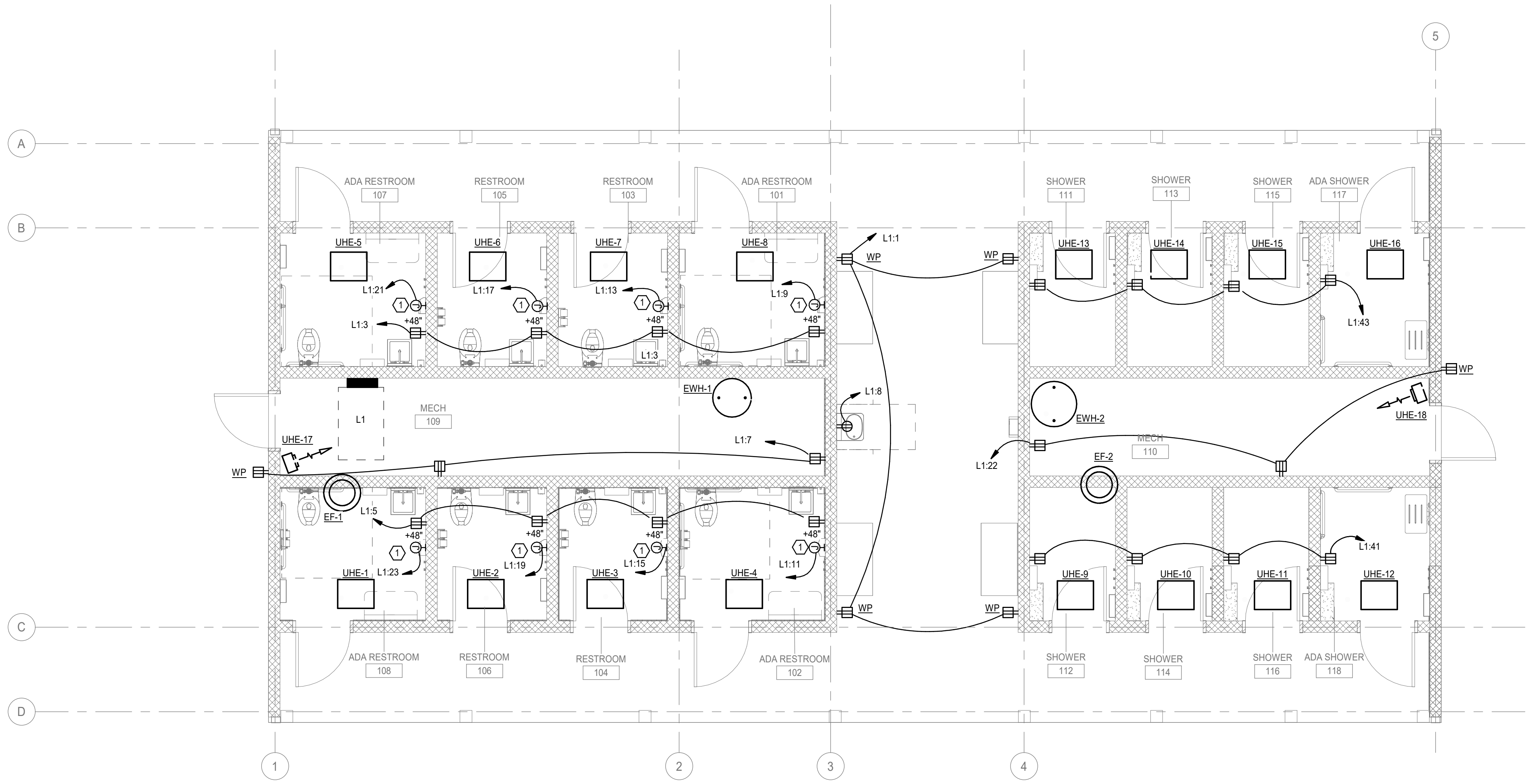
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 10/24/2025

CAD DWG FILE: _____
DRAWN BY: ERR
CHECKED BY: KC
DESIGNED BY: ERR

SHEET TITLE:
POWER PLAN

SHEET NUMBER:

E-201.A



SHEET KEYNOTES

1. POWER FOR HAND DRYER. COORDINATE FINAL LOCATION WITH ARCHITECTURAL PLANS.

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

PANEL L1 VOLTAGE 120/240V MCB OR MLO MCB FED FROM SERVICE RATED No				PHASE BUS RATING 400 A AVAILABLE SHORT CKT 42 kAIC INTEGRAL SPD No								LOCATION MECH 109 MOUNTING SURFACE NO. OF POLES 54 PANEL SECTIONS 1							
NOTE	LOAD DESCRIPTION	AMP	P	CKT. NO.	A		B		CKT. NO.	P	AMP	LOAD DESCRIPTION	NOTE						
	RCPT - CORRIDOR	20 A	1	1	720	225			2	1	20 A	LTG - EXTERIOR							
	RCPT - RR NORTH	20 A	1	3			720	336	4	1	20 A	LTG - SHOWER, EF							
	RCPT - RR SOUTH	20 A	1	5	720	288			6	1	20 A	LTG - RESTROOM, EF							
	RCPT - MECH 109, EXTERIOR	20 A	1	7			540	180	8	1	20 A	WATER FOUNTAIN	GFCI						
HPL	HAND DRYER 101	20 A	1	9	1560	1500			10	2	20 A	UHE-5.6							
HPL	HAND DRYER 102	20 A	1	11			1560	1500	12	--	--	--	--						
HPL	HAND DRYER 103	20 A	1	13	1560	1500			14	2	20 A	UHE-1.2							
HPL	HAND DRYER 104	20 A	1	15			1560	1500	16	--	--	--	--						
HPL	HAND DRYER 105	20 A	1	17	1560	1500			18	2	20 A	UHE-9,10							
HPL	HAND DRYER 106	20 A	1	19			1560	1500	20	--	--	--	--						
HPL	HAND DRYER 107	20 A	1	21	1560	540			22	1	20 A	RCPT-MECH 110, EXTERIOR							
	HAND DRYER 108	20 A	1	23			1560	1500	24	2	20 A	UHE-3.4							
	UHE-17	20 A	2	25	1100	1500			26	--	--	--	--						
--		--	--	27			1100	1500	28	2	20 A	UHE-11							
	UHE-13,14	20 A	2	29	1500	1500			30	--	--	--	--						
--		--	--	31			1500	1500	32	2	20 A	UHE-15,16							
	UHE-18	20 A	2	33	1100	1500			34	--	--	--	--						
--		--	--	35			1100	1500	36	2	20 A	UHE-7.8							
	EF-1	20 A	1	37	800	1500			38	--	--	--	--						
	EF-2	20 A	1	39			800	2250	40	2	25 A	EWB-1							
	RCPT - SHOWER NORTH	0 A	1	41	720	2250			42	--	--	--	--						
	RCPT - SHOWER SOUTH	0 A	1	43			720	15000	44	2	175 A	EWB-2							
	SPARE	0 A	1	45	0	15000			46	--	--	--	--						
	SPARE	0 A	1	47			0	0	48	1	20 A	SPARE							
	SPARE	20 A	1	49	0	0			50	1	20 A	SPARE							
	SPARE	20 A	1	51			0	0	52	1	20 A	SPARE							
	SPARE	20 A	1	53					54	1	20 A	SPARE							
					KVA	41.703	KVA	40.986											
					AMPS	348	AMPS	342											
LOAD CLASSIFICATIONS		CONNECTE D (VA)	DEMAND FACTOR	DEMAND (VA)	CONNECTED LOAD: 82.689 345				MAXIMUM DEMAND: 82.689 345				NOTES: AFCI - ARC FAULT CIRCUIT INTERRUPTION TYPE CIRCUIT BREAKER CZ# - CONTROL ZONE NUMBER FOR REMOTE CONTROL BMS# - ROUTE CIRCUIT THROUGH BUILDING MANAGEMENT SYSTEM GFCI - GROUND FAULT CIRCUIT INTERRUPTING TYPE CIRCUIT... GFPE - GROUND FAULT PROTECTION EQUIPMENT CIRCUIT BREAKER HLO - HANDLE LOCK ON DEVICE FOR CIRCUIT BREAKER HPL - PADLOCK ATTACHMENT TO LOCK C/B HANDLE IN OPEN POSITION						
HVAC	64500 VA	100.00%	64500 VA																
Lighting	849 VA	100.00%	849 VA																
Power	12480 VA	100.00%	12480 VA																
Receptacle	4860 VA	100.00%	4860 VA																
</																			