

# WAKONDA STATE PARK CAMPGROUND SHOWER HOUSE REPLACEMENT La Grange, Missouri



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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: X2531-01

SITE NUMBER: 5116  
ASSET NUMBER: 7815116003

SHEET NUMBER:

## G-001

1 OF 38 SHEETS  
10/24/2025

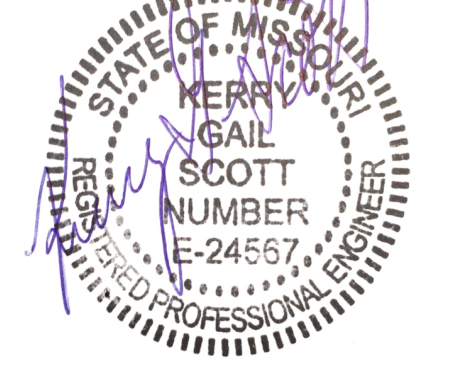


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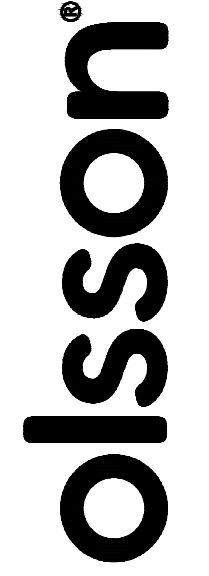
**LEGEND**

	CONTROL POINT-BENCHMARK
	ELECTRIC METER
	GRATE
	LIGHT POLE
	POWER POLE
	SIGN
	STEEL POST
	PROPOSED SANITARY SEWER CLEANOUT
	EXIST. SANITARY SEWER MANHOLE
	TRANSFORMER
	WOOD POST
	YARD HYDRANT
	METERING MANHOLE
	EXISTING CONTOUR LINE
	NEW CONTOUR LINE
	BARBED WIRE FENCE
	CHAIN LINK FENCE
	LIMITS OF CONSTRUCTION
	TREE MASS
	PROPOSED GRAVITY SANITARY SEWER
	PROPOSED FORCE MAIN SANITARY SEWER
	PROPOSED WATER
	EXISTING WATER
	EXIST. SEWER PIPING
	OVERHEAD POWER

10-24-2025



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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
NATURAL RESOURCES,  
STATE PARKS

CAMPGROUND  
SHOWER HOUSE  
REPLACEMENT

WAKONDA  
STATE PARK  
LA, GRANGE, MO

PROJECT # X2531-01  
SITE # 5116  
ASSET # 7815116003

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

ISSUE DATE: 10/24/2025

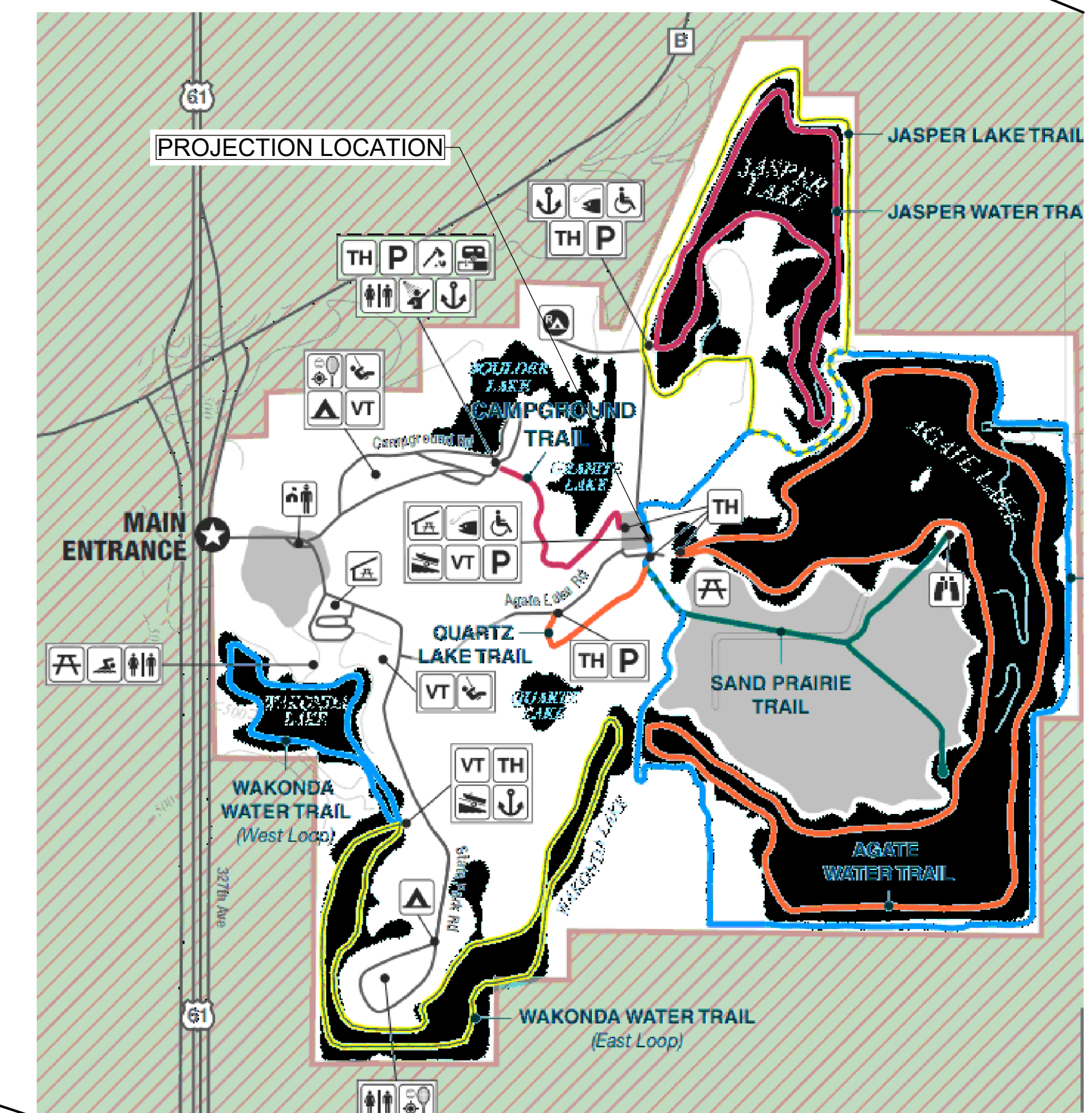
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DRAWN BY: TMH  
CHECKED BY: KGS  
DESIGNED BY: KGS

SHEET TITLE:  
LOCATION MAP

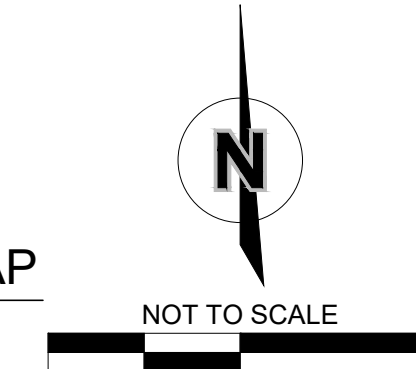
SHEET NUMBER:

G-101

2 OF 38 SHEETS  
10/24/2025



2 ENLARGED MAP  
SCALE: NOT TO SCALE



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

ABBREVIATION

Table with 2 columns: Abbreviation and Description. Includes items like AE AIR ENTRAINING, AFF ABOVE FINISHED FLOOR, AHU AIR HANDLING UNIT, etc.

GENERAL NOTES

- 1. 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.
2. 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.

STRUCTURAL GENERAL CONSTRUCTION:

- 1. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE.
2. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
3. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

EARTHWORK

- 1. HISTOPIC 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.
2. 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.
3. 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.

REINFORCED MASONRY

- 1. PLACING CONCRETE MASONRY UNITS:
A. USE RUNNING BOND, FULLY BOND CORNERS BY OVERLAPPING OF UNITS.
B. 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.
C. MAINTAIN FLUSH FACE ON EXPOSED MASONRY SURFACES.
D. FACE SHELLS: FULLY MORTARED.

SHOP DRAWINGS

- 1. ALL SHOP DRAWING SUBMITTALS SHALL BE AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR IN THESE NOTES.
2. SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER.
3. 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.

WOOD:

- 1. 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.
2. 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.

DESIGN CRITERIA:

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

Table with 2 columns: Design Load and Value. Includes categories like DESIGN LOADS, RISK CATEGORY, DEAD LOADS, ROOF (GENERAL), FLOOR (GENERAL), LIVE LOADS, etc.

FOUNDATIONS:

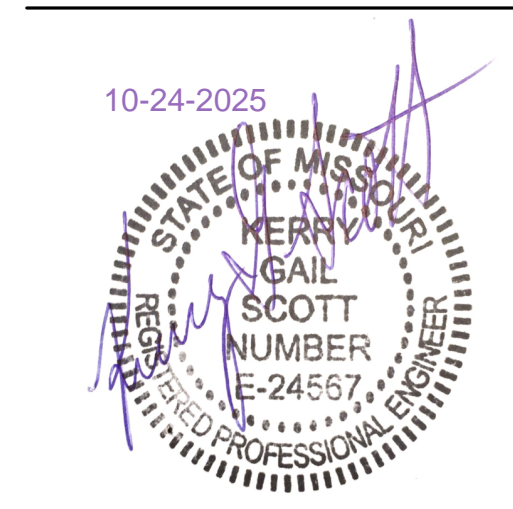
- 1. EXCAVATIONS NEAR FOOTINGS OR FOUNDATIONS, FOR ANY PURPOSE, SHALL NOT REMOVE LATERAL SUPPORT FROM ANY FOOTING OR FOUNDATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE FOOTING AND PROTECTING AGAINST SETTLEMENT OR LATERAL TRANSLATION.
2. BACKFILL FOR FOUNDATIONS ELEMENTS 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.

SLABS ON GRADE:

- 1. CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED TO THE MINIMUM THICKNESS AND WITH THE REINFORCEMENT SHOWN ON THE FOUNDATION PLAN.
2. THE MAXIMUM TOTAL REDUCTION OF CONCRETE SLAB ON GRADE THICKNESS FROM EMBEDDED CONDUITS, PIPES, ETC. SHALL BE 1 INCH.
3. SUBGRADES AND SUBBASES SHALL BE GRADED WITHIN THE TOLERANCES SPECIFIED IN THE EARTHWORK OR EARTH MOVING SPECIFICATION.

CONCRETE:

- 1. MINIMUM CONCRETE COMPRESSIVE STRENGTH (fc) AT 28 DAYS SHALL BE:
FOOTINGS, FOUNDATIONS, AND GRADE BEAMS 4000 PSI
SLABS ON GRADE 4000 PSI
2. THE MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE VERIFIED BY FIELD QUALITY CONTROL ACCORDING TO THE SPECIFICATIONS. SEE CAST-IN-PLACE CONCRETE SPECIFICATION.



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF NATURAL RESOURCES, STATE PARKS

CAMPGROUND SHOWER HOUSE REPLACEMENT

WAKONDA STATE PARK LA GRANGE, MO

PROJECT # X2531-01 SITE # 5116 ASSET # 7815116003

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:

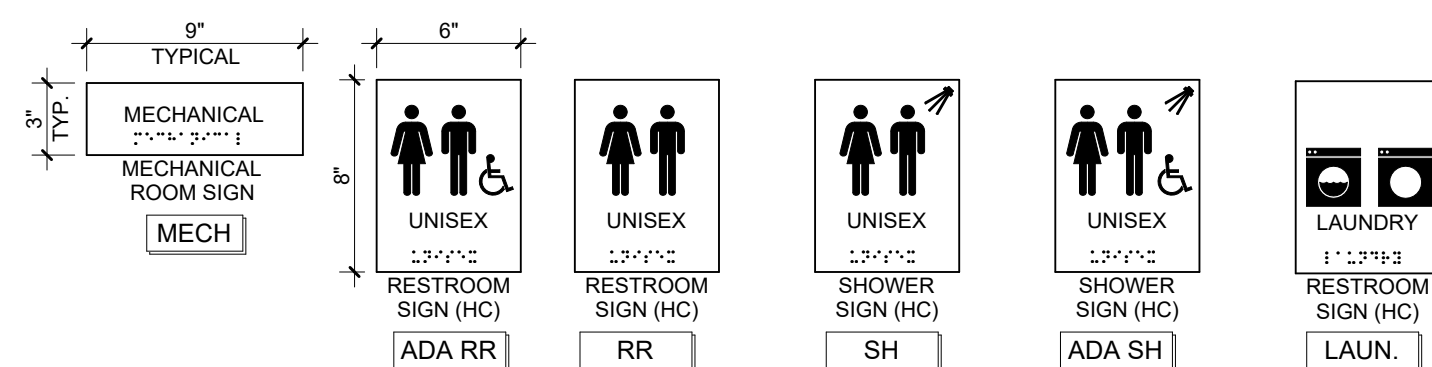
G-102

**PANEL SIGNAGE LEGEND**

- PROVIDE THE FOLLOWING PANEL SIGNS AS INDICATED ON THE CODE PLANS.
- 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.
- PROVIDE TACTILE EXIT SIGNAGE AT EACH EXIT DOOR COMPLIANT WITH THE APPLICABLE IBC VERSION, ANSI 117.1, AND AS IDENTIFIED UNDER OTHER APPLICABLE CODES.
- COLOR OF PANEL SIGNAGE TO BE SELECTED BY ARCHITECT PRIOR TO FABRICATION FROM MANUFACTURER STANDARD LINE OF COLORS.
- SIGNS SHALL BE ONE PIECE CONSTRUCTION WITH THE EXCEPTION OF APPLIED VINYL LETTERS AND CHARACTERS.
- ALL SIGNAGE TO BE ADA AND ANSI COMPLIANT.
- ALL SIGNAGE TO BE 1/8" THICK COLORED ACRYLIC WITH COLORED MATTE FINISH.
- ALL SIGNAGE EDGES TO BE POLISHED.
- CHARACTERS TO BE CUT VINYL APPLIED. COLOR OF CHARACTERS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER STANDARD LINE OF COLORS.
- LETTERS TO BE 3/4" CUT VINYL APPLIED. LETTERS TO BE A FONT AND COLOR SELECTED BY ARCHITECT FROM MANUFACTURER STANDARD LINE OF COLORS.
- ALL ROOM DESIGNATIONS ARE TO BE PROVIDED BY OWNER.
- PROVIDE RAISED BRAILLE CHARACTERS ON ALL PANEL SIGNS.
- SEE SPECIFICATIONS FOR MORE INFORMATION.
- SEE FINISH FLOOR PLANS FOR ANY ADDITIONAL NON-CODE RELATED SIGNAGE.

**PANEL SIGNAGE TAGS**

PROVIDE ONE (1) SIGN PER TAG 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	OCCUPANT COUNT
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 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: NO  
 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 5,000 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

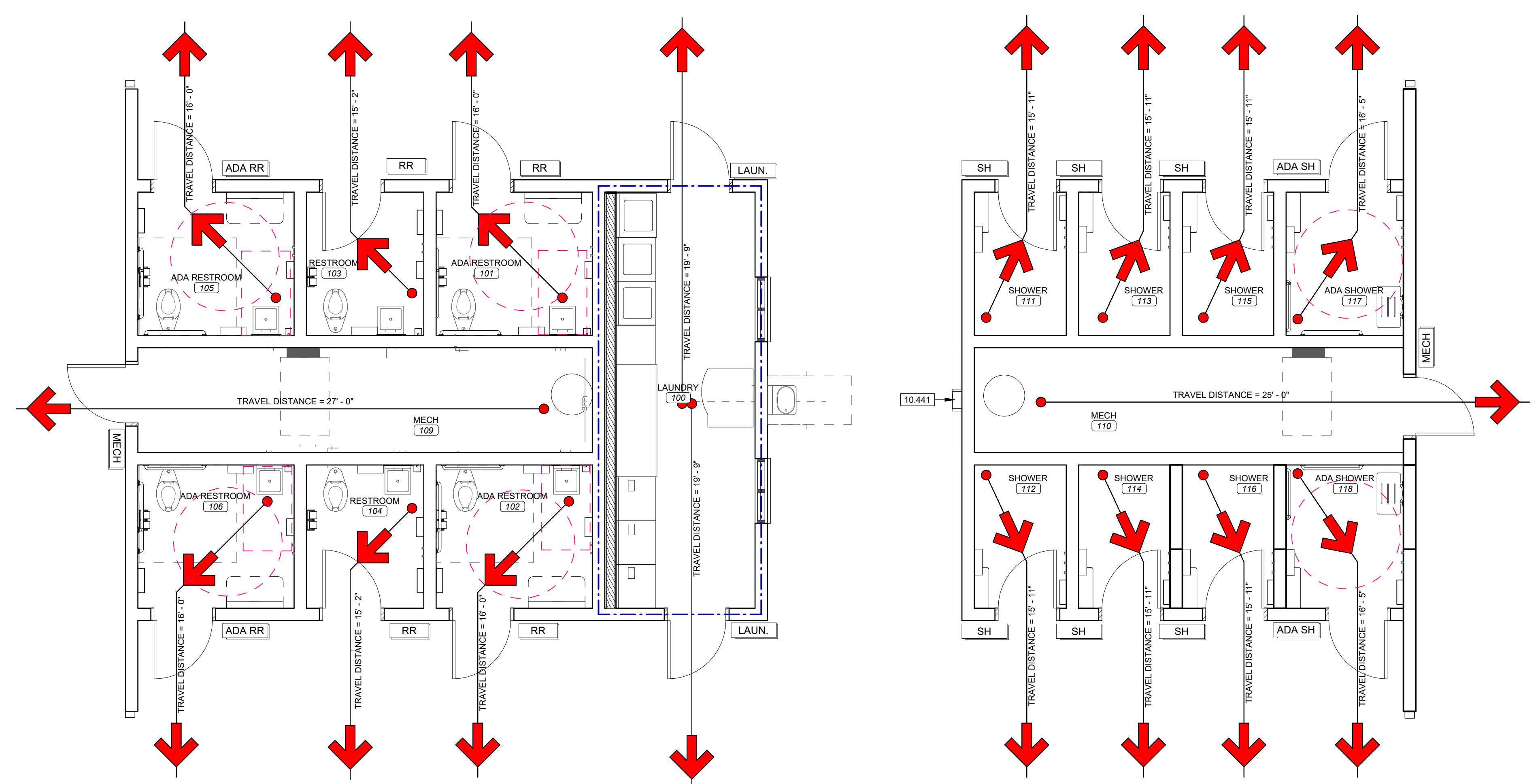
**FIRE RESISTANCE RATING LEGEND**

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)



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

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STATE OF MISSOURI  
 MIKE KEHOE  
 GOVERNOR



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

Department of Natural Resources,  
 State Parks

**CAMPGROUND SHOWER HOUSE REPLACEMENT**

Wakonda State Park  
 La Grange, MO

PROJECT NUMBER: X2531-01  
 SITE NUMBER: 5116  
 ASSET NUMBER: 7815116003

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

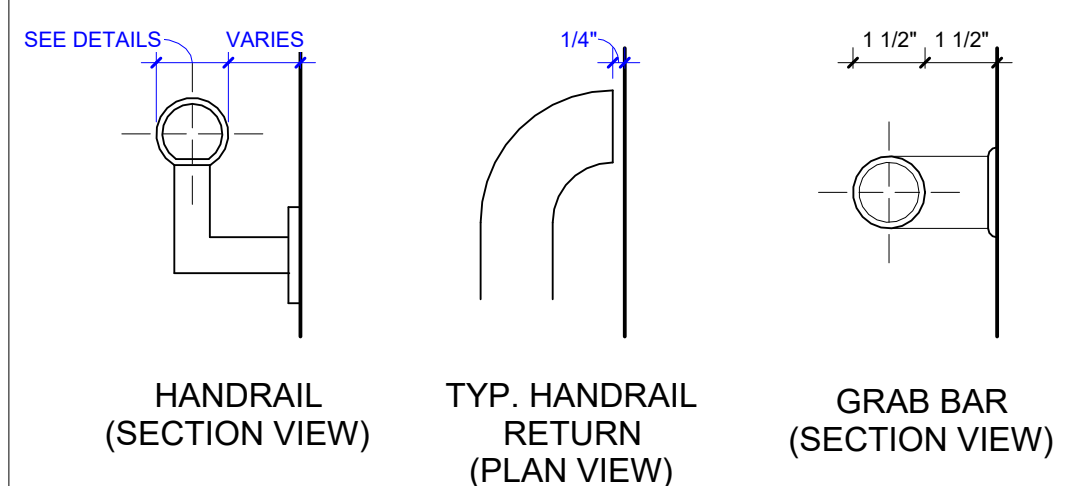
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 CHECKED BY: JY, JS

SHEET TITLE:  
**CODE PLAN**

SHEET NUMBER:

**G-103**

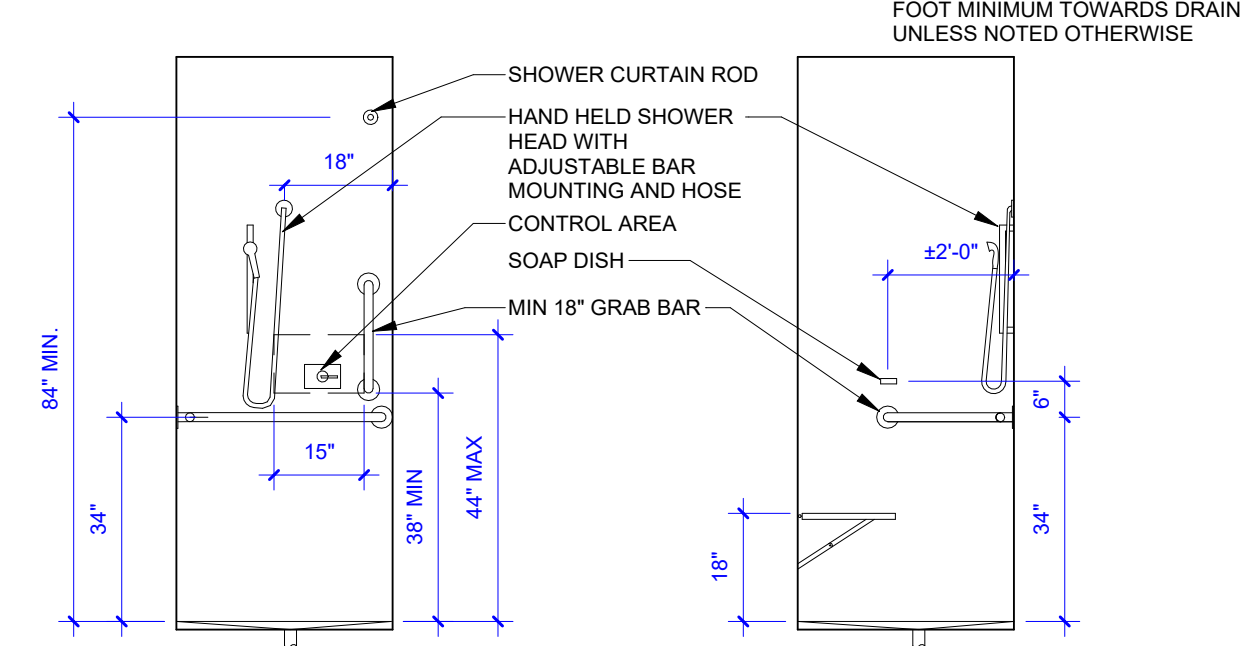
04 OF 38 SHEETS  
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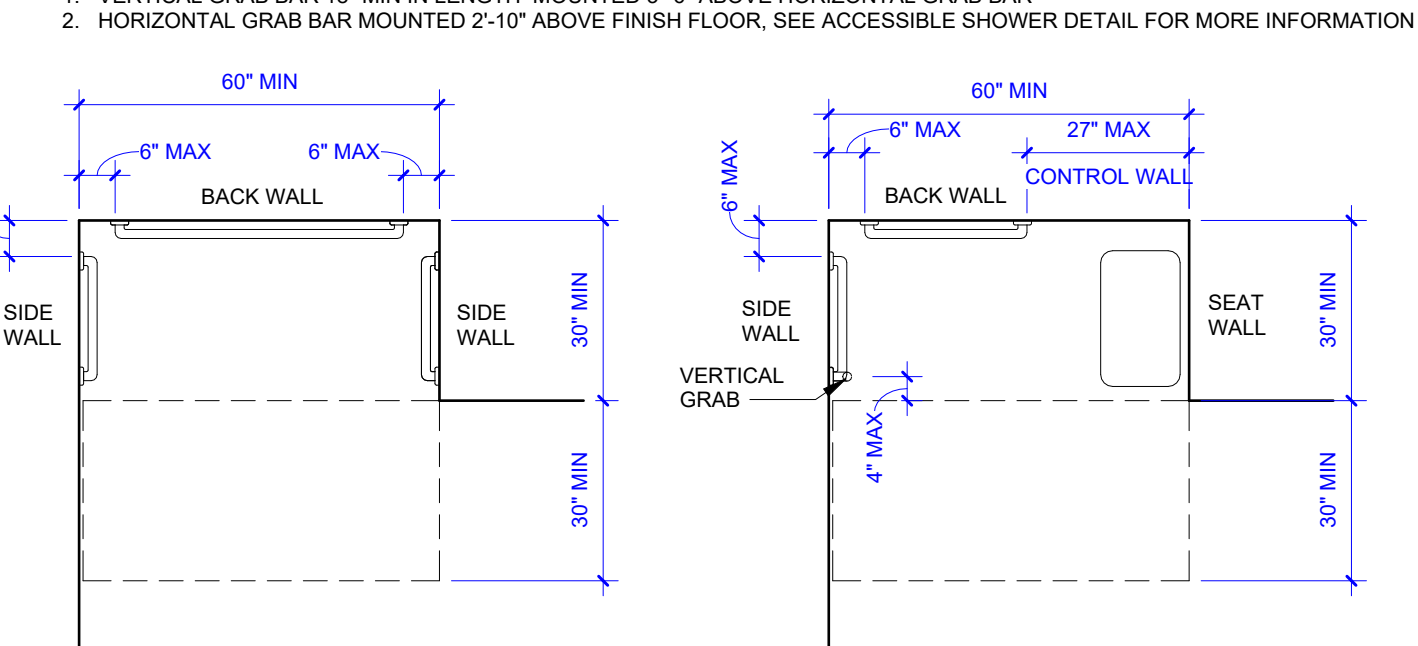
**HANDRAIL (SECTION VIEW)**  
**TYP. HANDRAIL RETURN (PLAN VIEW)**  
**GRAB BAR (SECTION VIEW)**

NOTE:  
 1. GRAB BAR SHALL BE DESIGNED TO WITHSTAND A 250LB. LOAD. COORDINATE NECESSARY BLOCKING IN WALL WITH FRAMING CONTRACTOR.  
 2. HANDRAILS SHALL BE SPACED 2 1/4\"/>

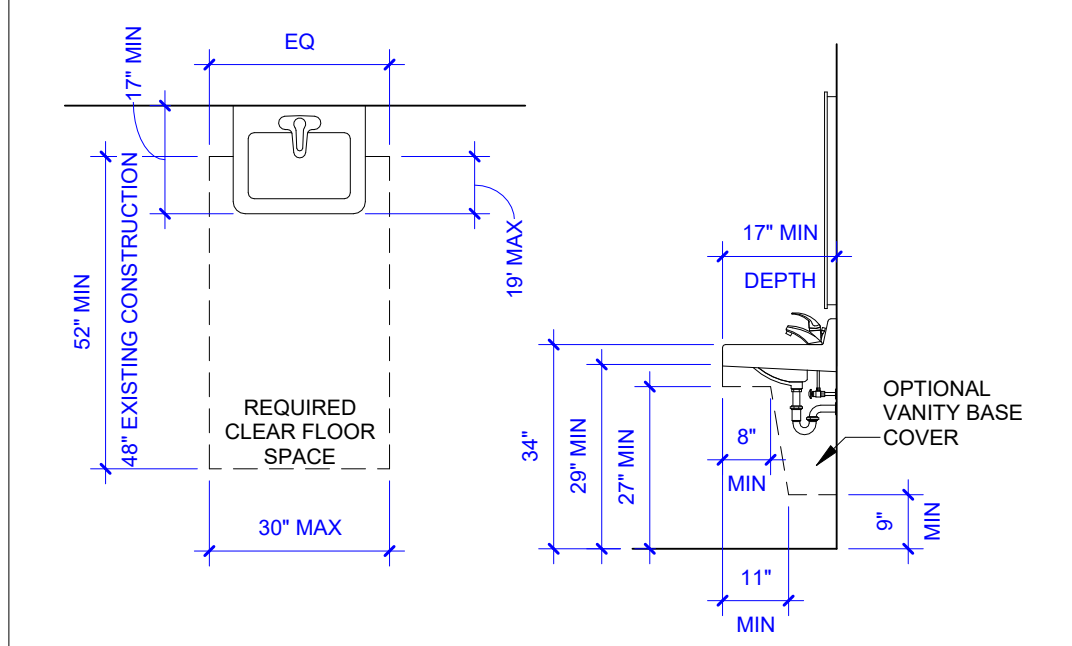
**13 ACCESSIBLE GRAB BARS AND HANDRAILS**  
 SCALE 3\"/>



**12 ACCESSIBLE SHOWER DETAIL**  
 SCALE 3/8\"/>

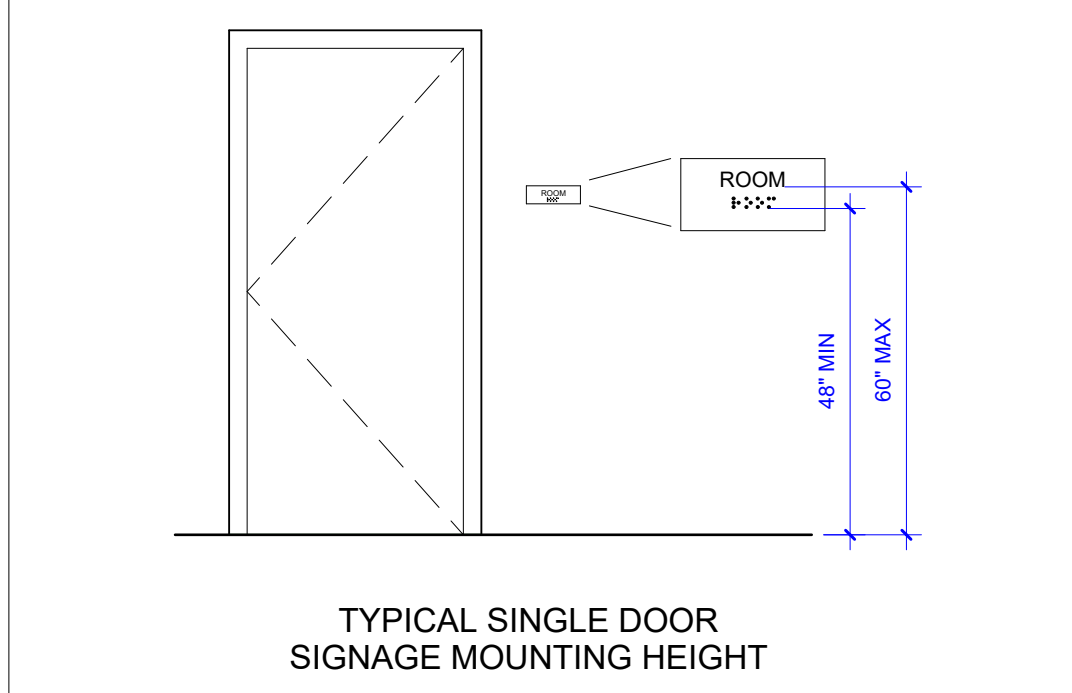


**11 TYPICAL ACCESSIBLE SHOWER LAYOUT**  
 SCALE 3/8\"/>

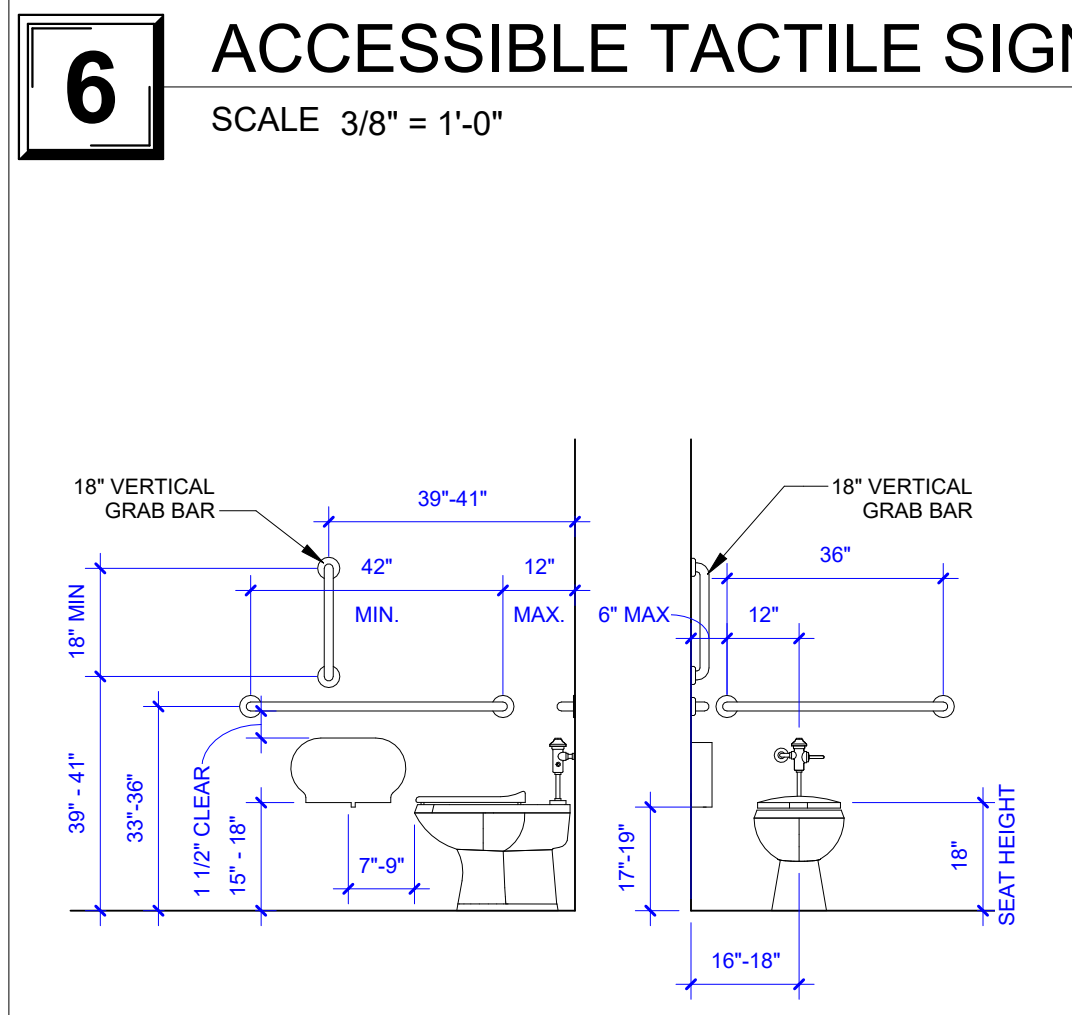


NOTE:  
 1. COUNTERTOP MOUNTED LAVATORIES ARE TO BE MOUNTED WITH SAME CLEARANCES, REQUIREMENTS, ETC.  
 2. IF OPTIONAL VANITY BASE COVER IS NOT INSTALLED, A PVC PTRAP IS REQUIRED

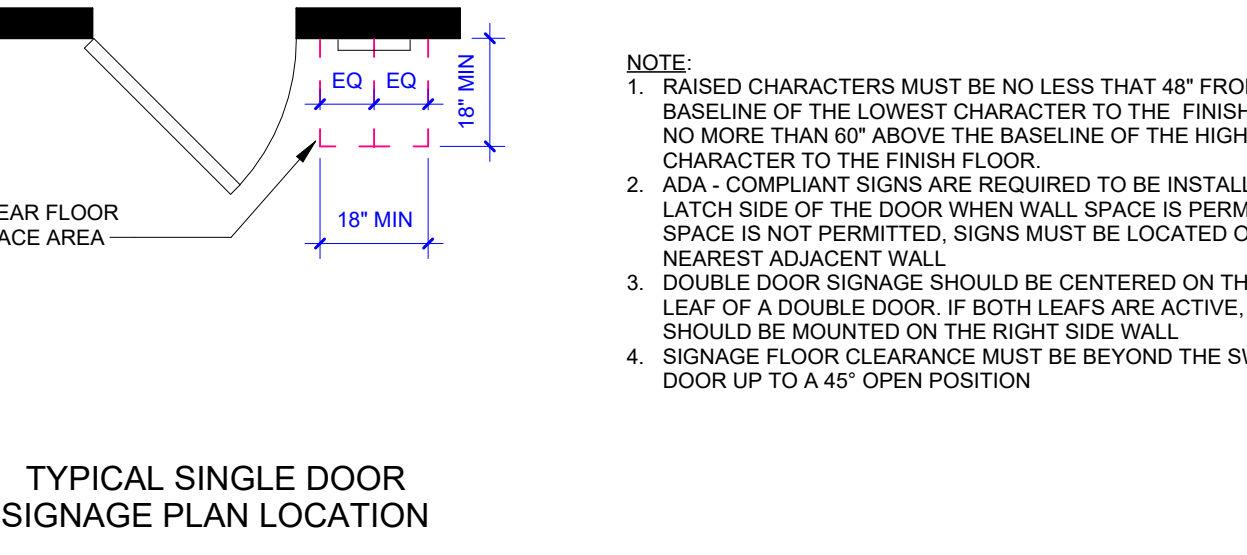
**10 ACCESSIBLE LAVATORY**  
 SCALE 3/8\"/>



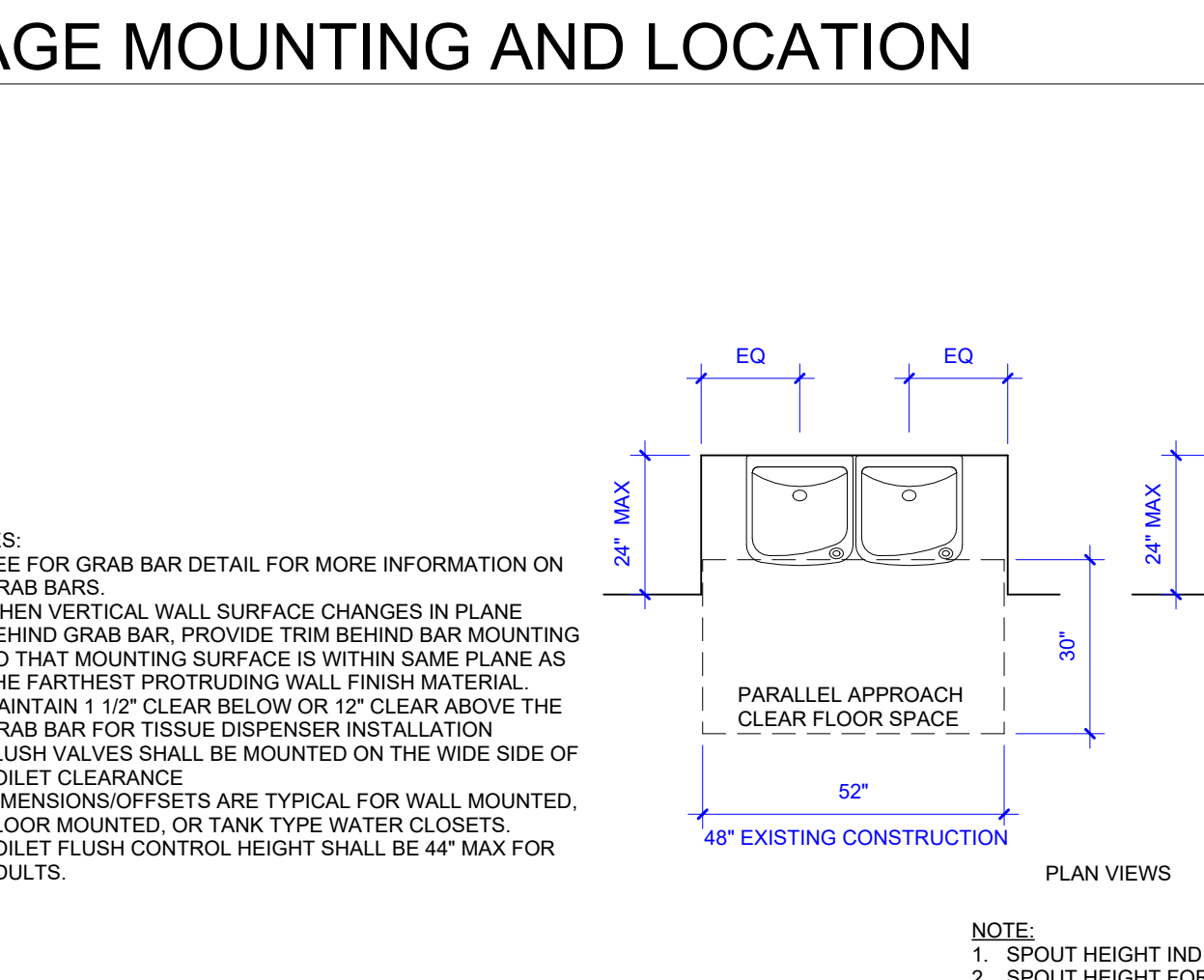
**6 ACCESSIBLE TACTILE SIGNAGE MOUNTING AND LOCATION**  
 SCALE 3/8\"/>



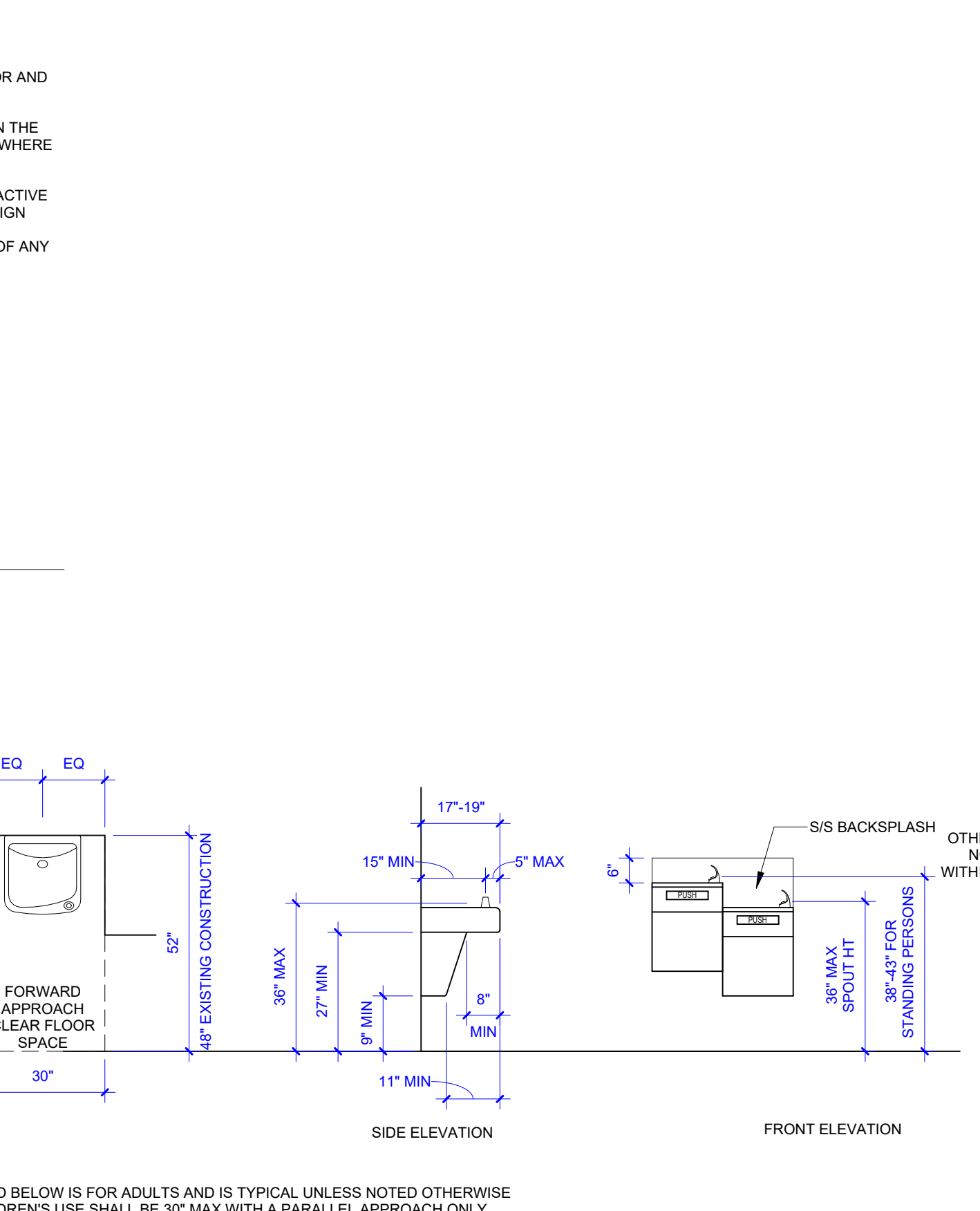
**4 ACCESSIBLE WATER CLOSET**  
 SCALE 3/8\"/>



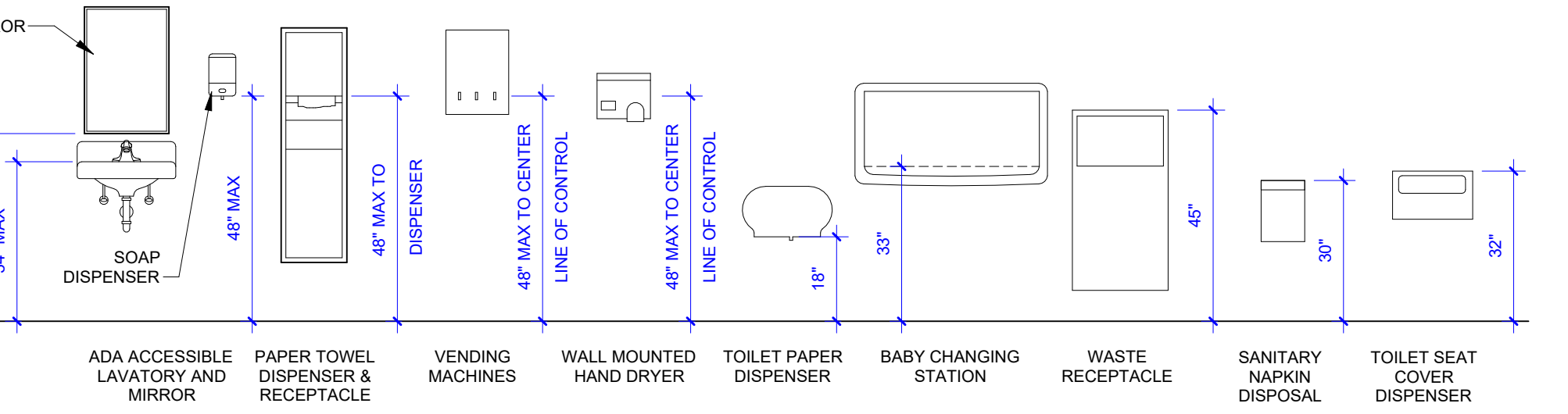
**3 ACCESSIBLE DRINKING FOUNTAIN**  
 SCALE 3/8\"/>



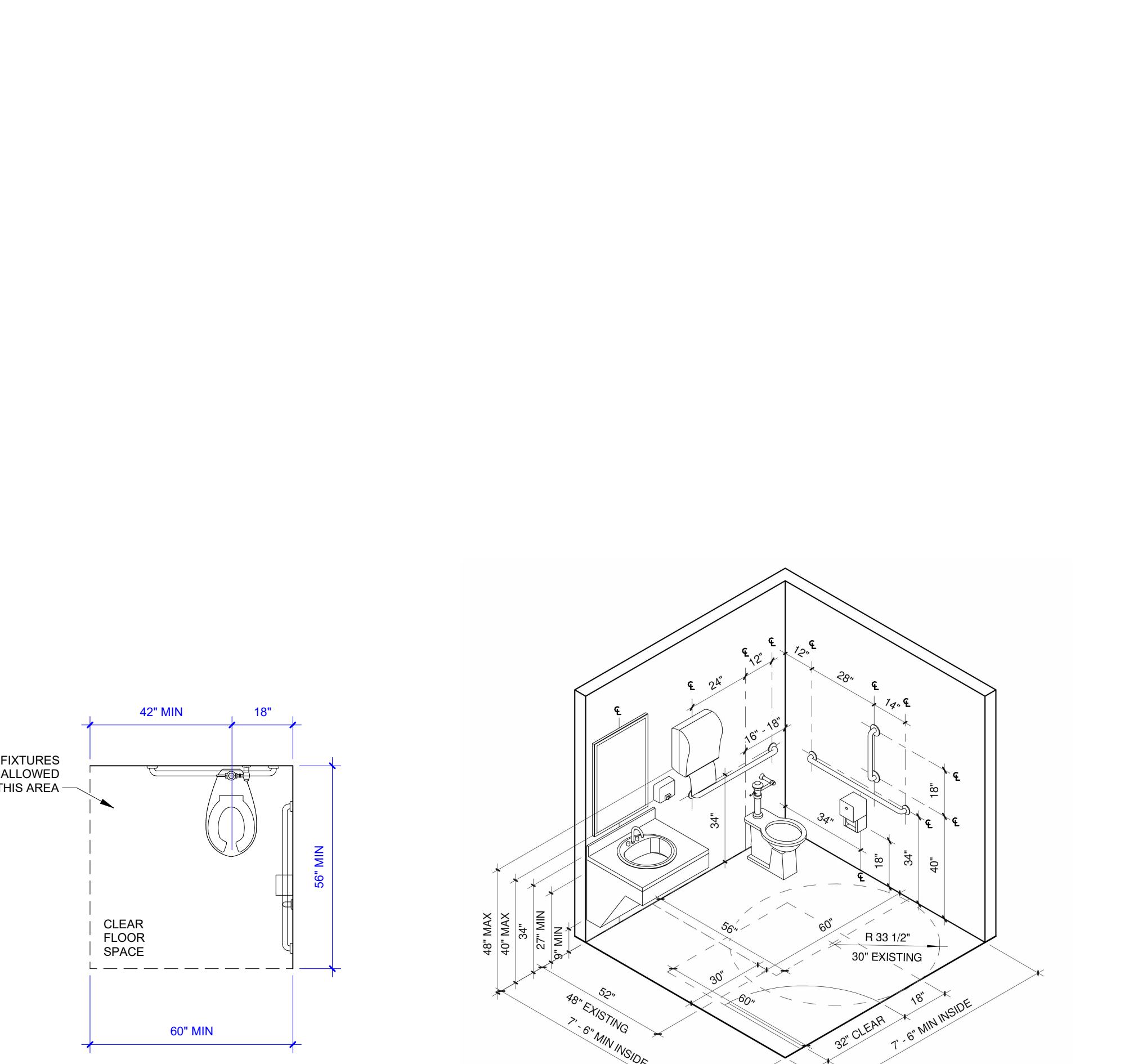
**2 CLEARANCE FOR WATER CLOSET**  
 SCALE 3/8\"/>



**3 ACCESSIBLE DRINKING FOUNTAIN**  
 SCALE 3/8\"/>



**7 ACCESSIBLE RESTROOM ACCESSORIES**  
 SCALE 3/8\"/>



**1 ACCESSIBLE RESTROOM - SINGLE**  
 SCALE 12\"/>

**4 ACCESSIBLE WATER CLOSET**  
 SCALE 3/8\"/>

**3 ACCESSIBLE DRINKING FOUNTAIN**  
 SCALE 3/8\"/>

**2 CLEARANCE FOR WATER CLOSET**  
 SCALE 3/8\"/>

**1 ACCESSIBLE RESTROOM - SINGLE**  
 SCALE 12\"/>



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Department of Natural Resources,  
 State Parks

**CAMPGROUND SHOWER HOUSE REPLACEMENT**

Wakonda State Park  
 La Grange, MO

PROJECT NUMBER: X2531-01  
 SITE NUMBER: 5116  
 ASSET NUMBER: 7815116003

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

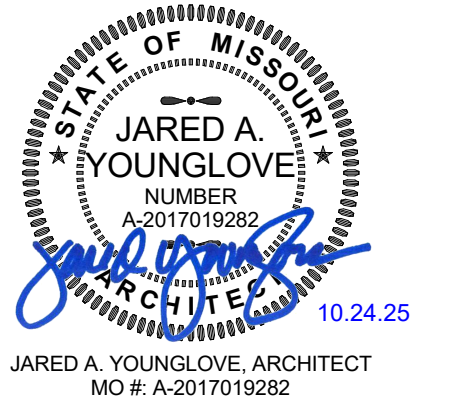
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 DRAWN BY: AM, LY, LH, TW  
 CHECKED BY: JY, JS

**ACCESSIBILITY STANDARDS**

SHEET NUMBER:

**G-104**

05 OF 38 SHEETS  
 10/24/2025



PROFESSIONAL SEAL



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Department of Natural Resources,  
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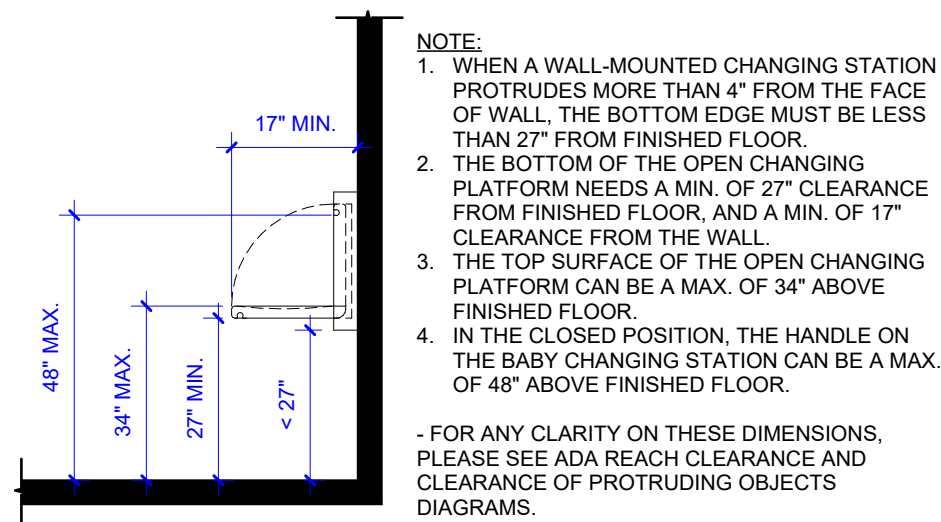
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**ACCESSIBILITY  
STANDARDS**

SHEET NUMBER:

# G-105

06 OF 38 SHEETS  
10/24/2025



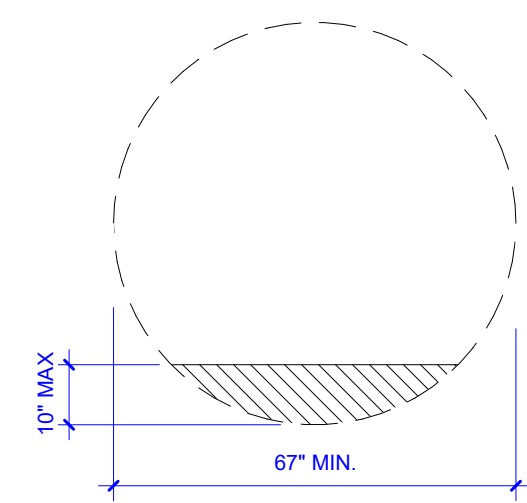
- NOTE:
1. WHEN A WALL-MOUNTED CHANGING STATION PROTRUDES MORE THAN 4" FROM THE FACE OF WALL, THE BOTTOM EDGE MUST BE LESS THAN 27" FROM FINISHED FLOOR.
  2. THE BOTTOM OF THE OPEN CHANGING PLATFORM NEEDS A MIN. OF 27" CLEARANCE FROM FINISHED FLOOR, AND A MIN. OF 17" CLEARANCE FROM THE WALL.
  3. THE 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"

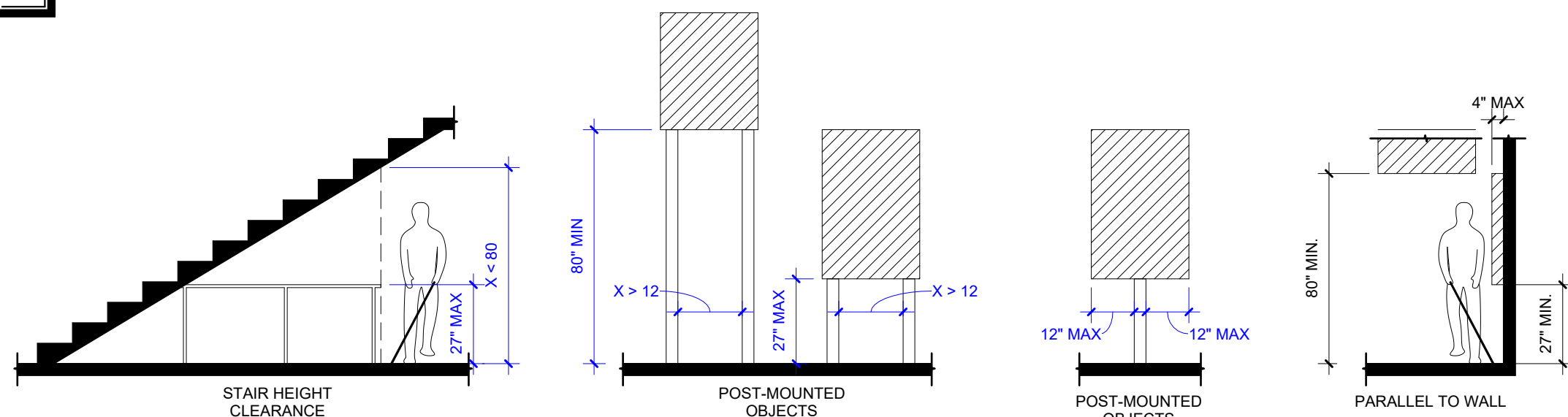
OVERLAP OF KNEE AND TOE CLEARANCE



NEW CONSTRUCTION

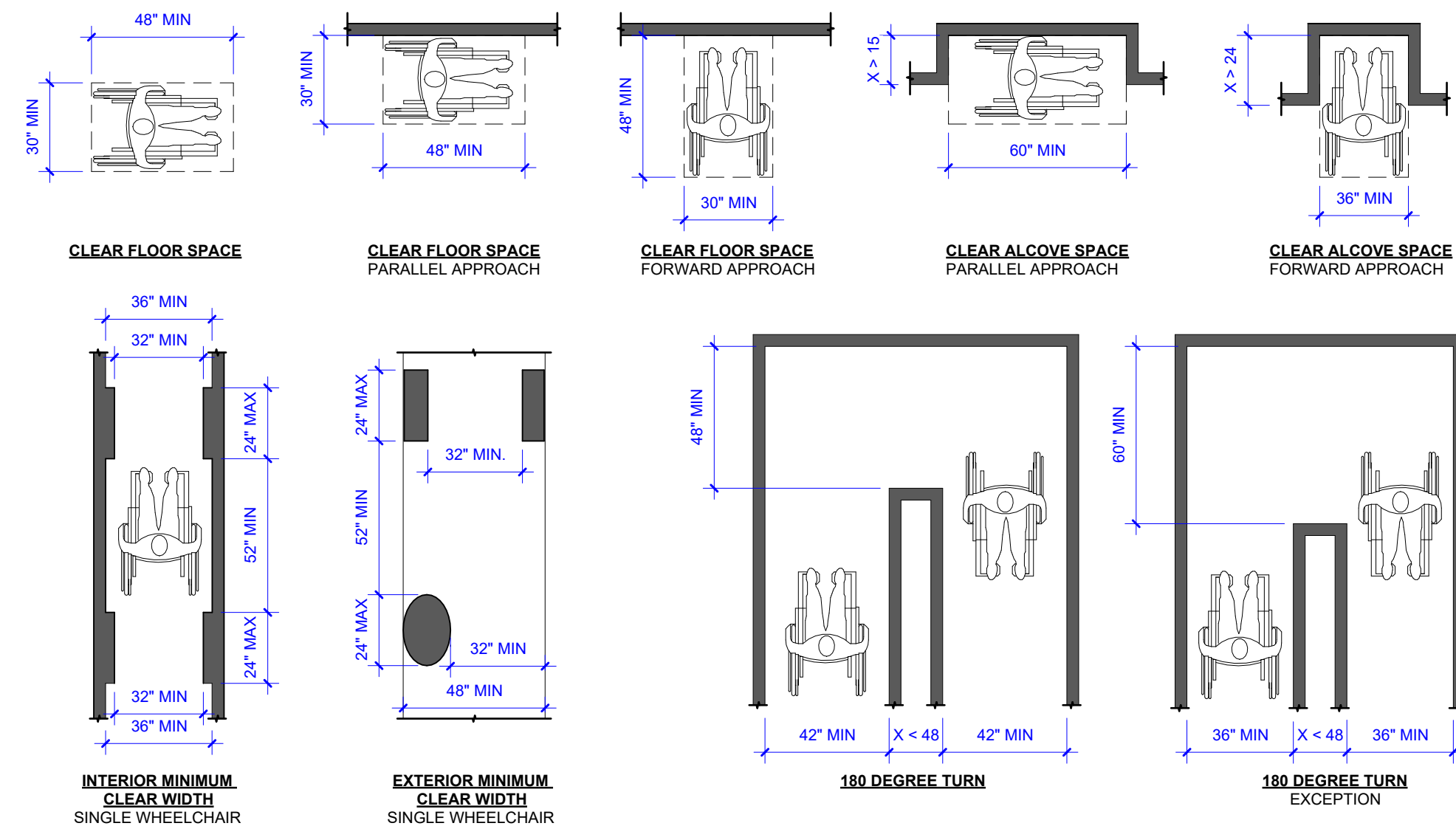
## 8 ACCESSIBLE TURN RADIUS

SCALE 3/8" = 1'-0"



## 5 PROTRUDING OBJECT CLEARANCE

SCALE 1/4" = 1'-0"

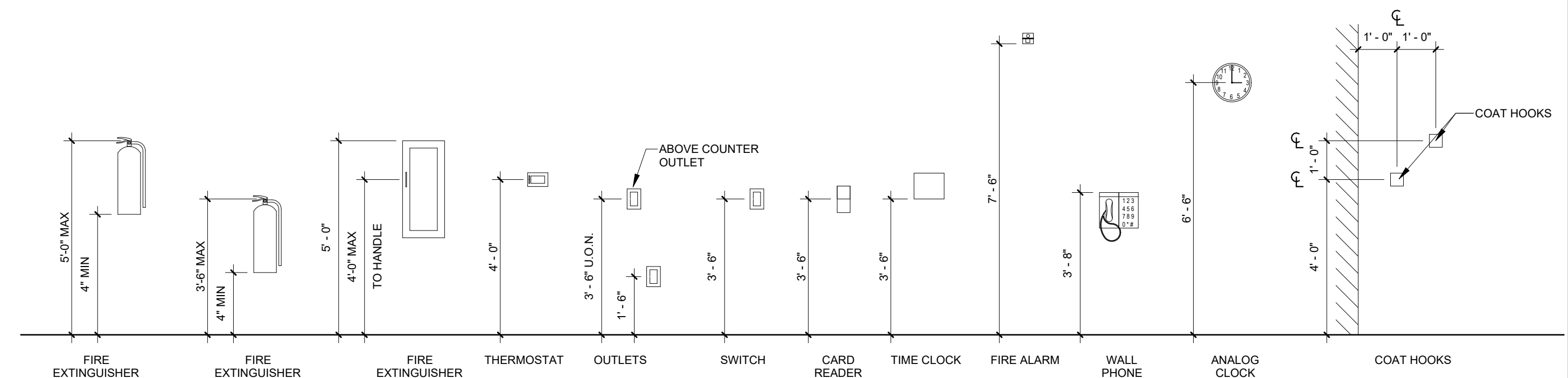


## 3 CLEAR FLOOR SPACE & MANEUVERING ACCESS

SCALE 1/4" = 1'-0"

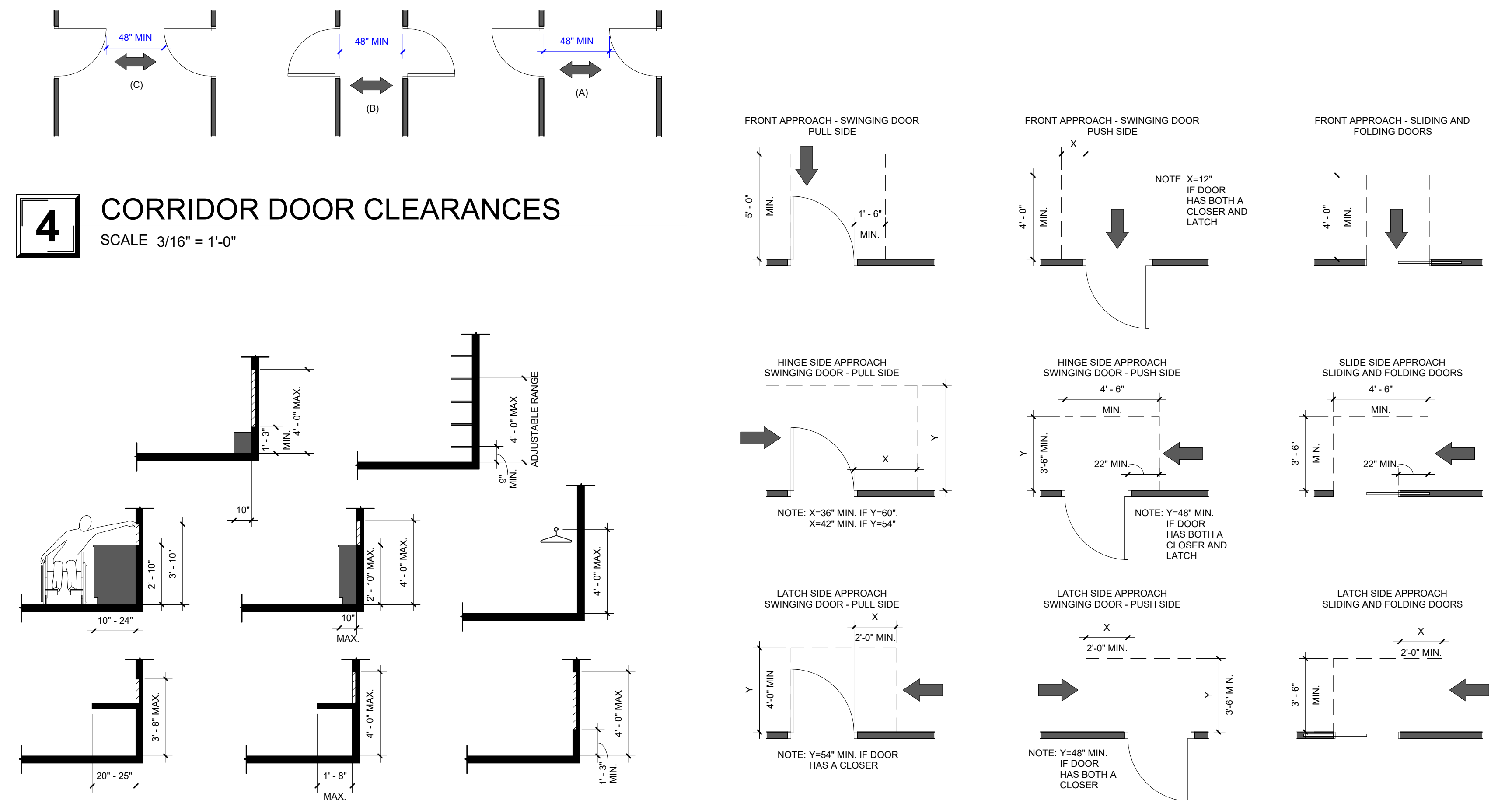
## 6 ACCESSIBLE ACCESSORIES TYPICAL

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.

**DEMOLITION NOTES:**  
 1. LIMITS OF EXISTING TREES TO BE REMOVED BY OTHERS.  
 2. EXISTING SIGNS TO BE REMOVED, STORED AND RE-INSTALLED AS PER PARK SUPERINTENDENT'S DIRECTION.  
 3. REMOVE EXISTING TRAIL IN AREAS OF NEW CONSTRUCTION OF SHOWER HOUSE/RESTROOM AND SIDEWALK.  
 4. CAR BUMPER TO BE REMOVED AND RE-INSTALLED IN A POSITION TO ALLOW UNOBSTRUCTED PEDESTRIAN TRAFFIC.  
 5. EXISTING SHOWER HOUSE/RESTROOMS TO REMAIN IN SERVICE UNTIL AFTER NEW SHOWER HOUSE/RESTROOMS ARE OPERATIONAL AND APPROVED. EXISTING SHOWER HOUSE/RESTROOMS TO BE DEMOLISHED AND REMOVED

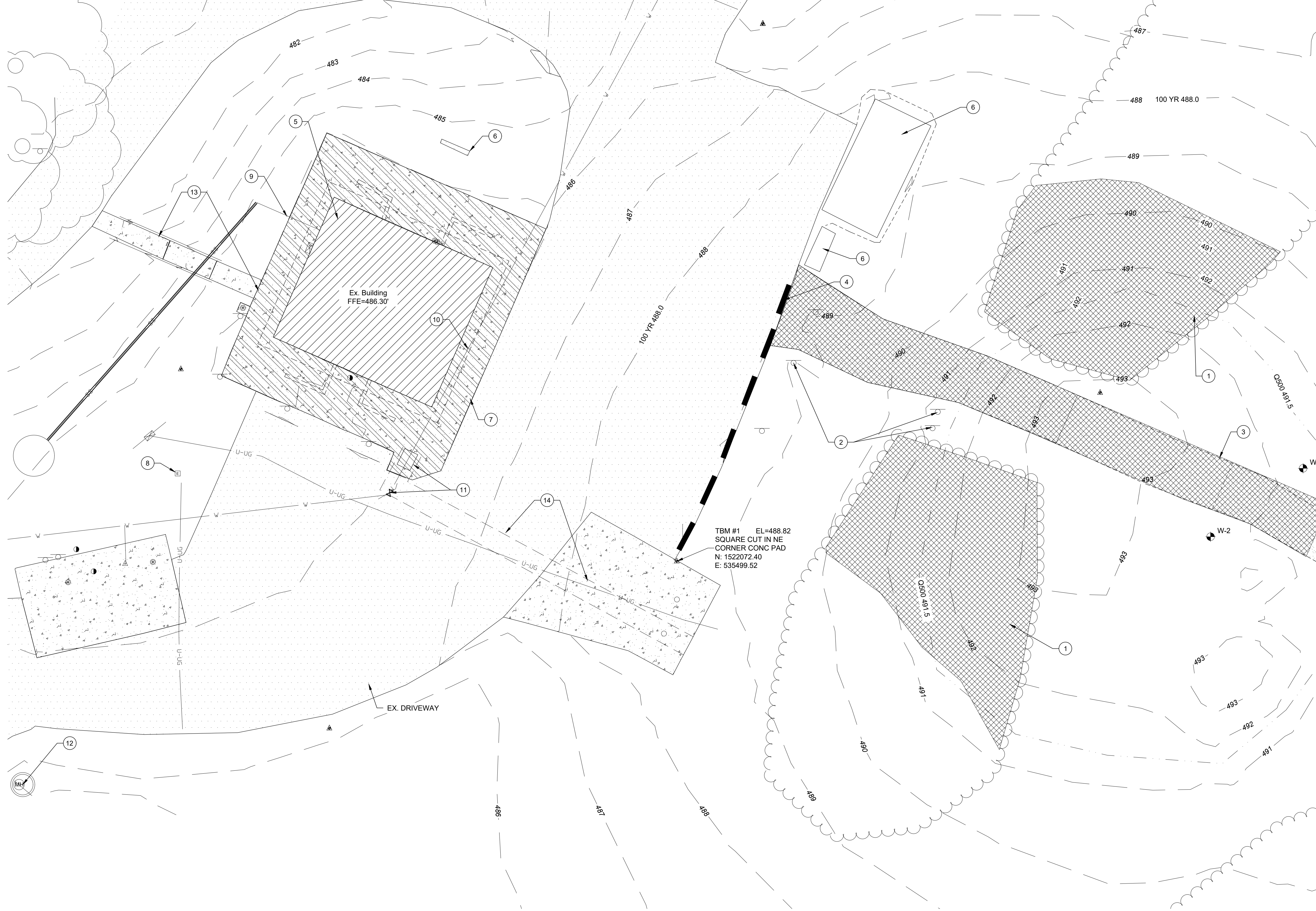
INCLUDING ALL ASSOCIATED FIXTURES, PLUMBING, FOUNDATIONS, ELECTRICAL AND MECHANICAL EQUIPMENT, AFTER NEW SHOWER HOUSE IS IN OPERATION.  
 6. EXISTING STRUCTURE TO REMAIN.  
 7. REMOVE EXISTING CONCRETE SIDEWALK AND CONCRETE UNDER EXISTING STRUCTURE. REPLACE WITH COMPACTED GRAVEL FILL TO MATCH EXISTING GRADE.  
 8. DEMOLITION OF ELECTRICAL INCLUDES REMOVAL OF ELECTRICAL CABLES FROM EXISTING BUILDING TO EXISTING TRANSFORMER AND DISCONNECTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE EXISTING MATERIALS FROM SITE AND DEPOSED OF PROPERLY. EXISTING TRANSFORMER TO

REMAIN IN PLACE TO CONTINUE TO FEED EXISTING CAMPSITES. UTILITY COMPANY WILL SPLICE UPSTREAM OF THE EXISTING TRANSFORMER AND BORE A LINE TO THE NEW TRANSFORMER LOCATION. SEE ELECTRICAL SHEETS.  
 9. CONTRACTOR TO REMOVE EXISTING SEWER AND DRAINS IN DEMOLITION AREA. CONTRACTOR TO PLUG EXISTING LINES WITH 12" OF FLOWABLE FILL AND PLUG CONNECTION INTO EXISTING MANHOLE.  
 10. CONTRACTOR TO TERMINATE EXISTING CONNECTION PRIOR TO START OF DEMOLITION OF EXISTING SHOWER HOUSE/RESTROOM AND CAP EXISTING SERVICE LINE.  
 11. RELOCATE EXISTING VALVE SOUTH TO BEND. RECONNECT

RELOCATED VALVE AND LINE TO THE NORTH. SEE SHT. C-107  
 12. EXISTING MH INSTALLED UNDER SEPARATE CONTRACT. CONNECT NEW SANITARY SEWER LATERAL. SEE PLAN AND PROFILE SHEET C-105.  
 13. EXISTING SIDEWALK TO REMAIN. SAWCUT AT CONNECTION TO SHOWER HOUSE/RESTROOMS SIDEWALK.  
 14. SAWCUT PAVEMENT TO ALLOW INSTALLATION OF NEW WATER LINE.

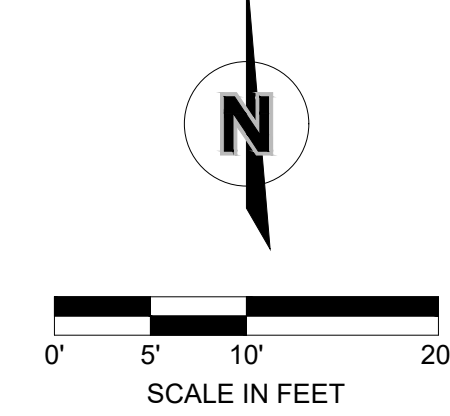
**GENERAL DEMOLITION NOTES**

- 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.



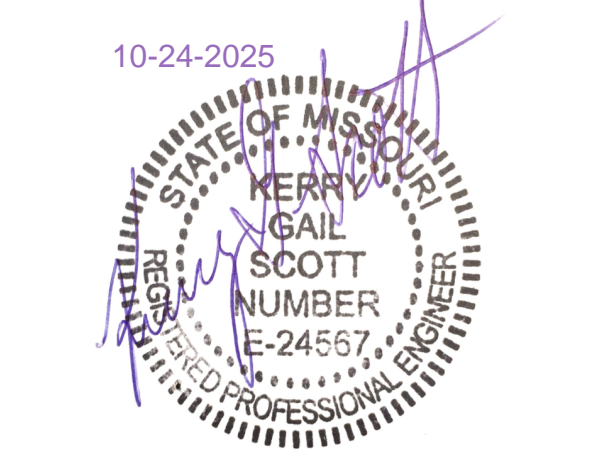
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 CORNER CONC PAD  
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**LEGEND**  
 BORE HOLE - SEE SPECIFICATIONS FOR GEOTECH REPORT AND BORING LOG

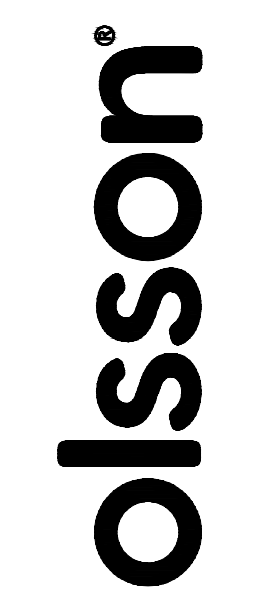


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1 SHOWER HOUSE RESTROOM DEMOLITION PLAN  
 SCALE: 1" = 10'



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 DESIGN AND CONSTRUCTION

DEPARTMENT OF  
 NATURAL RESOURCES,  
 STATE PARKS

CAMPGROUND  
 SHOWER HOUSE  
 REPLACEMENT

WAKONDA  
 STATE PARK  
 LA GRANGE, MO

PROJECT # X2531-01  
 SITE # 5116  
 ASSET # 7815116003

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

ISSUE DATE: 10/24/2025

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 DRAWN BY: TMH  
 CHECKED BY: KGS  
 DESIGNED BY: KGS

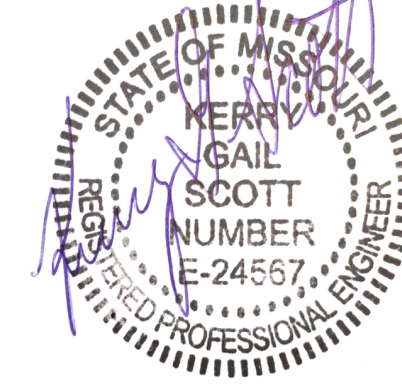
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 DEMOLITION PLAN

SHEET NUMBER:

C-101

7 OF 38 SHEETS  
 10/24/2025

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

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CHECKED BY: KGS  
DESIGNED BY: KGS

SHEET TITLE:  
SITE PLAN

SHEET NUMBER:

**C-102**

8 OF 38 SHEETS  
10/24/2025

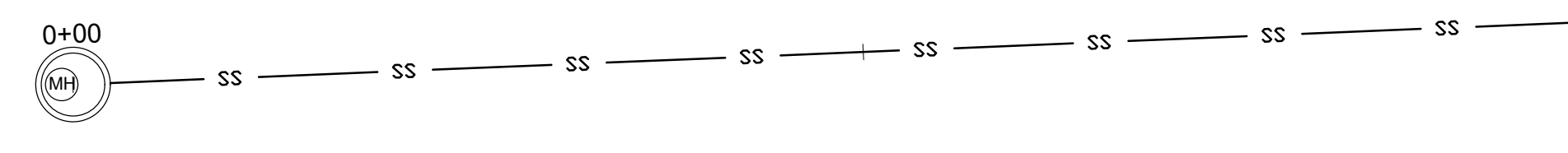
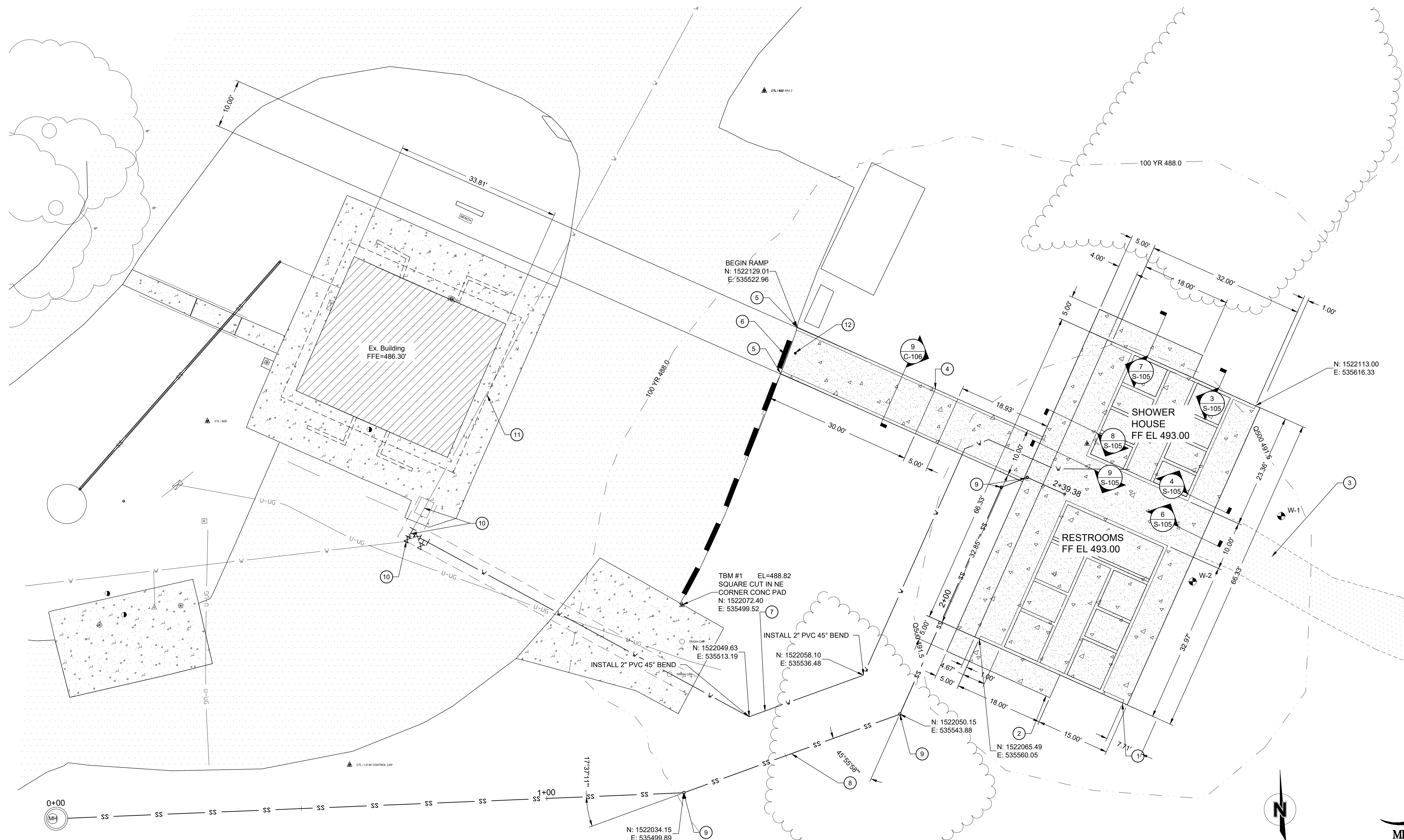
**LEGEND**

BORE HOLE - SEE SPECIFICATIONS FOR  
GEOTECH REPORT AND BORING LOG

TBM #2 EL=478.18  
COTTON SPINDLE IN ASPHALT  
N: 1522453.38  
E: 535535.81

**NOTES:**

1. NEW STRUCTURE.
2. NEW CONCRETE SIDEWALK.
3. EXISTING TRAIL, REGRADE TO MATCH NEW FINISH FLOOR/SIDEWALK. REPLACE WITH LIKE TRAIL SURFACE.
4. NEW HANDICAP RAMP WITH HANDRAILS, SEE DETAIL 2 ON SHEET C-106.
5. MATCH EXISTING PARKING LOT GRADE WITH END OF RAMP.
6. RE-ADJUST EXISTING PARKING BLOCKS AS REQUIRED TO ALLOW 5 FT. CLEAR ACCESS TO RAMP.
7. NEW 2" PVC WATER LINE.
8. NEW SANITARY SEWER, SEE SHEET C-105 FOR PLAN AND PROFILE.
9. INSTALL CLEANOUT, SEE DETAIL 1 ON SHEET C-106.
10. LOCATE EXISTING WATER LINE. INSTALL 2"x2"x2" TEE NORTH OF RELOCATED VALVE. INSTALL BALL VALVE ON TEE (E). ADD 2"x2"x2" TEE AND BALL VALVE FOR DRAIN (S). CONNECT TO NEW WATER LINE TO NEW SHOWER HOUSE/RESTROOM. RELOCATE EXISTING VALVE IN BOX SOUTH. SEE DETAIL 1 SHEET C-107.
11. CAP EXISTING WATER SERVICE LINE TO EXISTING SHOWER HOUSE/RESTROOM AFTER NEW WATER SERVICE LINE TO SHOWER HOUSE/RESTROOM IS IN SERVICE SEE SHEET C-105.
12. INSTALL NEW REMOVABLE BOLLARD, SEE DETAIL SHEET C-107.



**1** SHOWER HOUSE RESTROOM SITE PLAN  
SCALE: 1" = 10'



**GRADING NOTES:**

- ALL ELEVATIONS ARE TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 1988).
- 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. IF STOCKPILE IS INACTIVE FOR MORE THAN 14 DAYS.
- ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE GRADING AND REDISTRIBUTED WITH THE TOPSOIL AS OUTLINED IN NOTE #2.
- 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.
- 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.
- CONTRACTOR SHALL ADDRESS ANY GRADING RECOMMENDATIONS IDENTIFIED IN THE GEOTECHNICAL INVESTIGATION. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DO A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
- 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.
- 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.
- 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.
- 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.
- ALL ITEMS REMOVED SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AS PER PARK REQUIREMENTS.
- 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.
- 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".
- CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
- 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.

RELEASED FROM THIS RESPONSIBILITY BY THE ENGINEER, WHICHEVER PERIOD IS SHORTER.

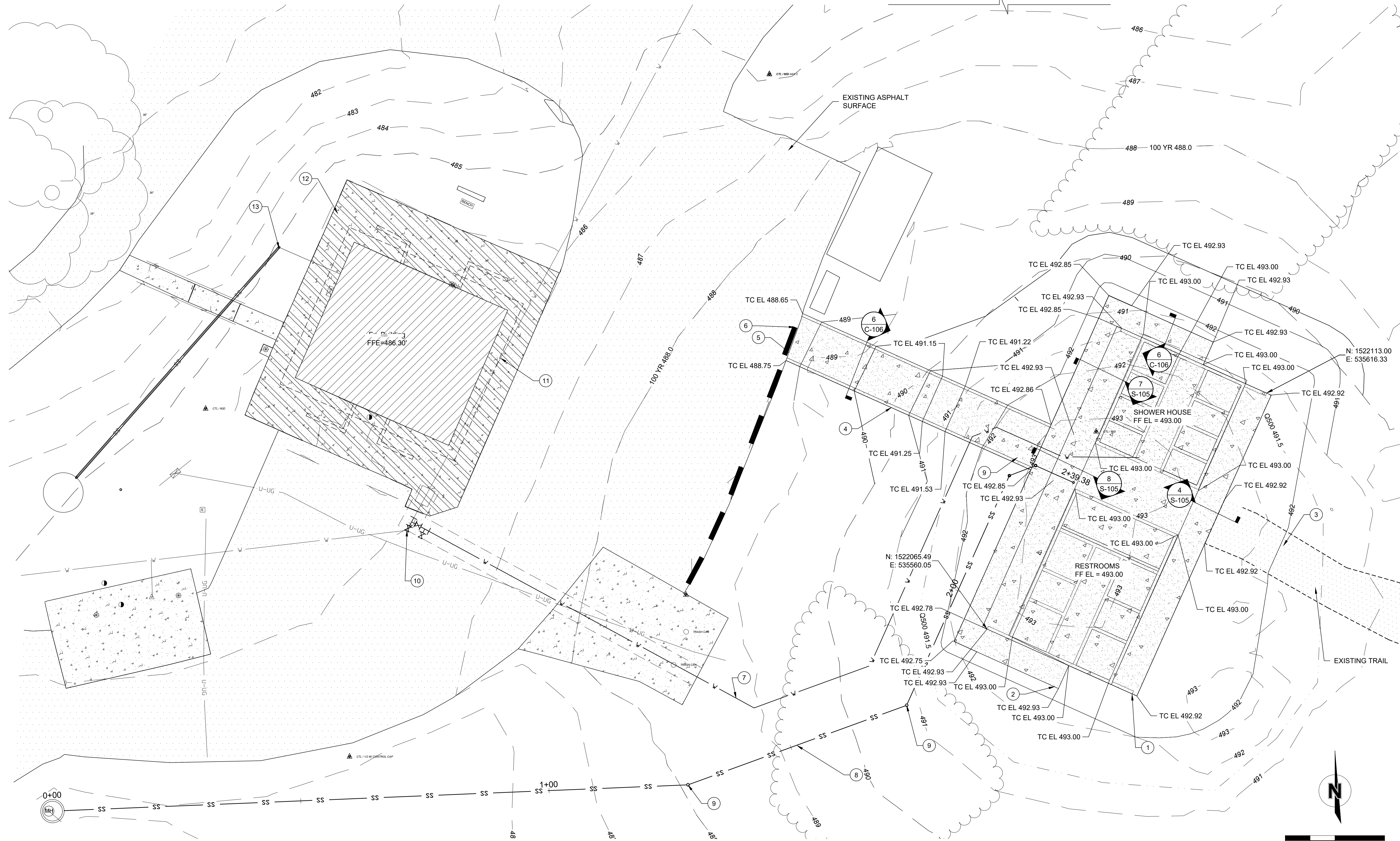
**NOTES:**

- NEW STRUCTURE CONCRETE SLAB EL 493.00
- NEW CONCRETE SIDEWALK.
- EXISTING TRAIL, REGRADE TO MATCH NEW FINISH FLOOR/SIDEWALK. REPLACE WITH LIKE TRAIL SURFACE.
- NEW 10' WIDE RAMP WITH HANDRAILS. SEE DETAIL 2 ON SHEET C-106.
- MATCH EXISTING PARKING LOT GRADE WITH END OF RAMP.
- RE-ADJUST EXISTING PARKING BLOCKS AS REQUIRED TO ALLOW 5 FT. CLEAR ACCESS TO RAMP.
- NEW 2" PVC WATER LINE.
- NEW SANITARY SEWER. SEE SHEET C-105 FOR PLAN AND PROFILE.
- INSTALL CLEANOUT, SEE DETAIL 1 ON SHEET C-106.
- LOCATE EXISTING WATER LINE. TAP AND INSTALL 2" SHUT-OFF VALVE WITH TEE AND BALL VALVE TO DRAIN NEW WATER LINE. RELOCATE EXISTING VALVE IN BOX TO THE SOUTH. SEE DETAIL SHEET C-107.
- CAP EXISTING WATER SERVICE LINE TO EXISTING SHOWER HOUSE/RESTROOM AFTER NEW WATER SERVICE LINE TO SHOWER HOUSE/RESTROOM IS IN SERVICE.
- UPON COMPLETION OF THE NEW SHOWER HOUSE/RESTROOMS, REMOVAL OF EXISTING BUILDING AND ASSOCIATED FEATURES. PLACE A 6" GRAVEL SURFACE OVER IN DISTURBED AREA TO MATCH EXISTING GRADES. DEMO AS OUTLINED ON SHEET C-101.
- LOCATE AND DISCONNECT EXISTING SEWER, CUT AND CAP EXISTING SEWER.

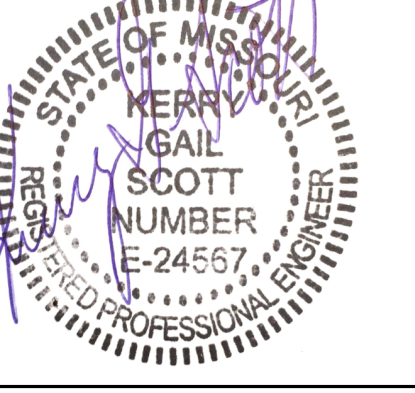
**LEGEND**

TC TOP OF CONCRETE/SIDEWALK

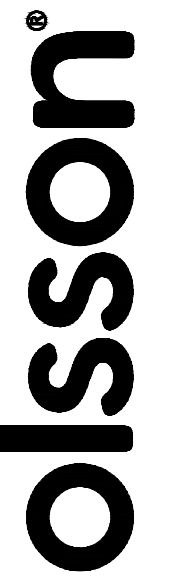
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E: 535535.81



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CAMPGROUND  
SHOWER HOUSE  
REPLACEMENT

WAKONDA  
STATE PARK  
LA GRANGE, MO

PROJECT # X2531-01  
SITE # 5116  
ASSET # 7815116003

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

SHEET NUMBER:

C-103

9 OF 38 SHEETS  
10/24/2025

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



**POLLUTION PREVENTION PROCEDURE NOTES:**

- 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
  - TANKS: DON'T POUR WASTE DOWN THE SINK, FLOOR DRAIN OR SEPTIC
  - WITH OTHER WASTE: DON'T BURY CHEMICALS OR CONTAINERS, OR DISPOSE OF THEM  
DON'T BURN OR MIX CHEMICALS OR CONTAINERS  
DON'T WASH SEDIMENT DOWN STORM SEWER INLETS
- 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.
- NO WASTE MATERIALS SHALL BE BURIED ON-SITE.
- 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.
- 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.

- 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-107.
- 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 PURPOSE 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.
- 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.
- 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:**

- 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.
- EROSION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY. THIS PLAN SHOULD BE USED AS A GUIDE AND REPRESENTS THE MINIMUM EROSION CONTROL DEVICES REQUIRED.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL EROSION & SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL EVENT.
- THE CONTRACTOR SHALL PROVIDE ANY FURTHER EROSION CONTROL MEASURES IN ADDITION TO THOSE LISTED TO ENSURE THAT SILT WILL NOT LEAVE THE PROJECT CONFINES.
- 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.

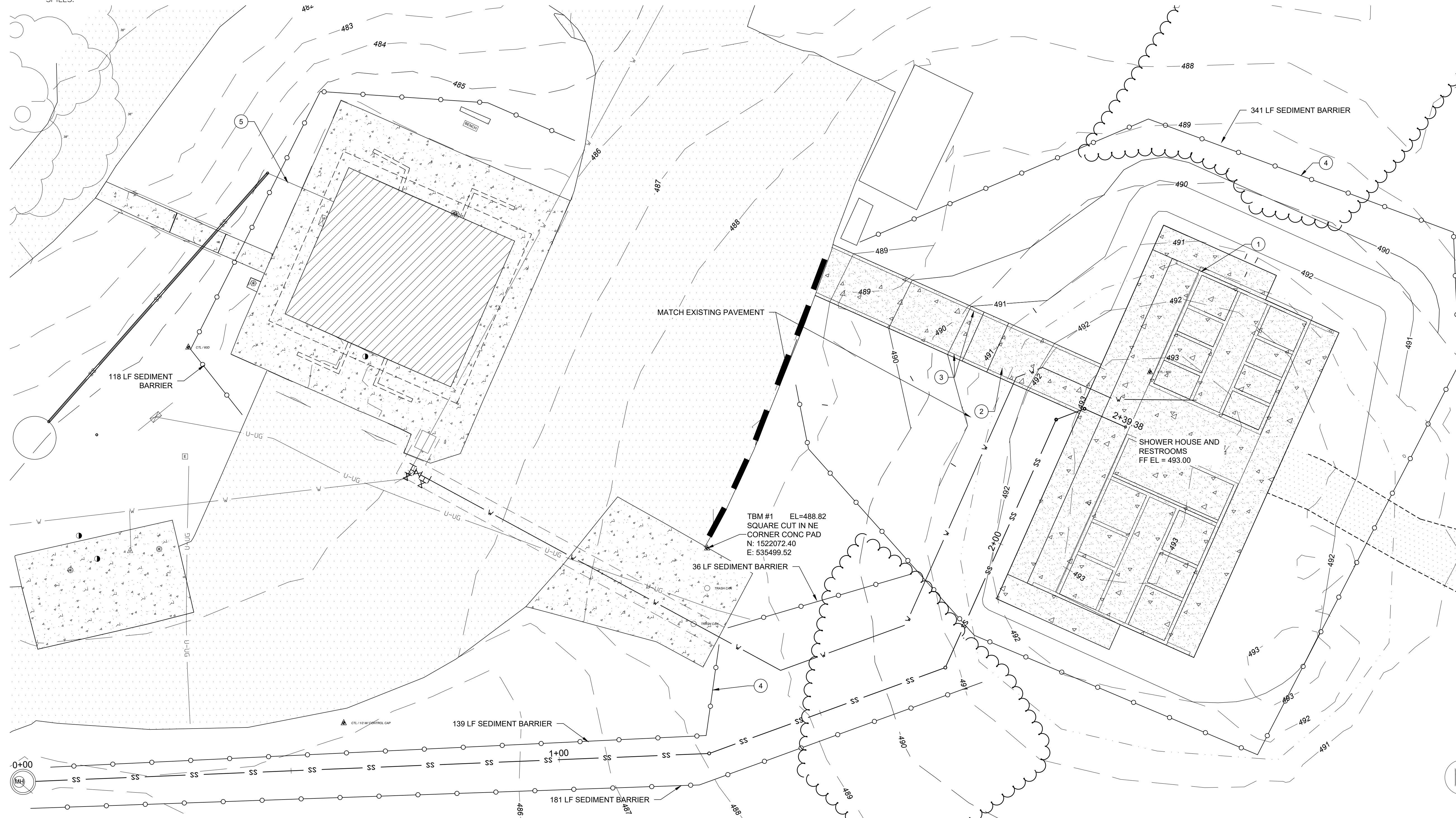
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY STABILIZATION AS REQUIRED.
- 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.
- REFERENCE DETAILS ON SHEET C-105 FOR TYPICAL EROSION CONTROL DEVICE INSTALLATION.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR PHASED INSTALLATION OF EROSION CONTROL BMP'S IN ORDER TO PREVENT SEDIMENT FROM BREACHING THE LIMITS OF DISTURBANCE.

**NOTES:**

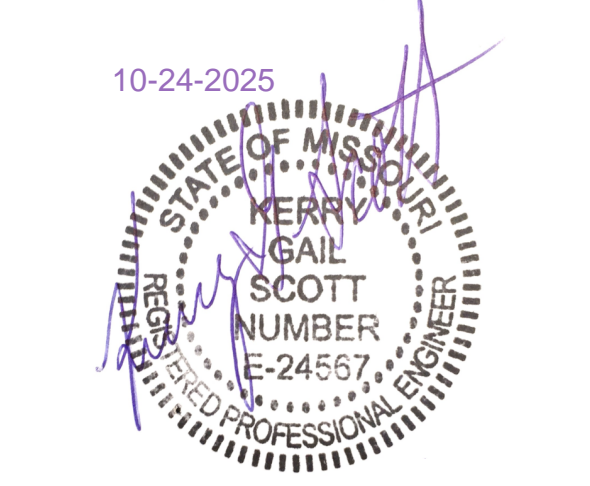
- NEW SHOWER HOUSE BUILDING CONCRETE SLAB EL: 493.00
- 10' WIDE HANDICAP RAMP. SLOPE 1.5%.
- RAMP HANDRAIL.
- EROSION CONTROL BARRIER. SEE DETAIL 7, SEDIMENT BARRIER, SHEET C-106.
- LOCATE EXISTING SEWER LINE, CUT AND CAP.

**EROSION CONTROL MATTING NOTE:**

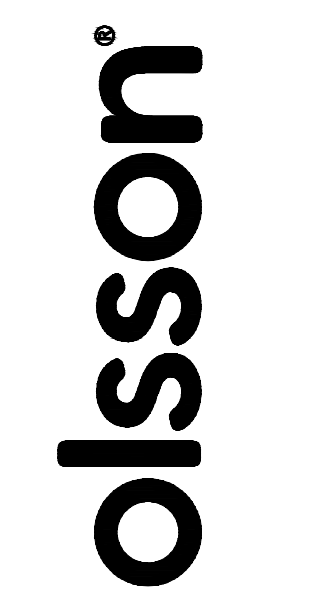
- EROSION CONTROL MATTING MAY BE DELETED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
- SOD IS UTILIZED AS PERMANENT STABILIZATION (COORD. WITH THE PLANTING PLANS)
  - LOCATIONS ARE NOT DORMANT FROM EARTHWORK ACTIVITIES FOR 14 OR MORE DAYS
  - FINAL GRADING HAS NOT BEEN COMPLETED



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



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WAKONDA  
STATE PARK  
LA GRANGE, MO

PROJECT # X2531-01  
SITE # 5116  
ASSET # 7815116003

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

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

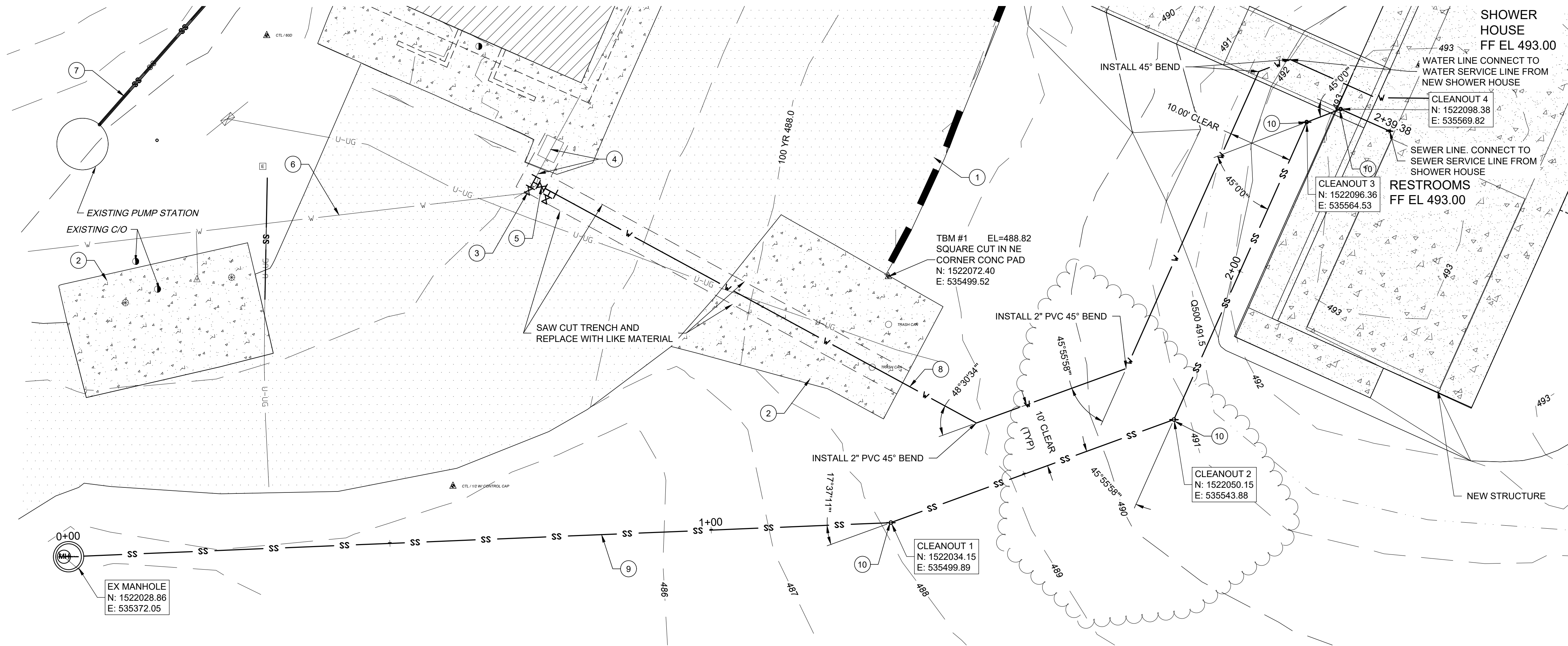
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**EROSION CONTROL  
PLAN**

SHEET NUMBER:

**C-104**

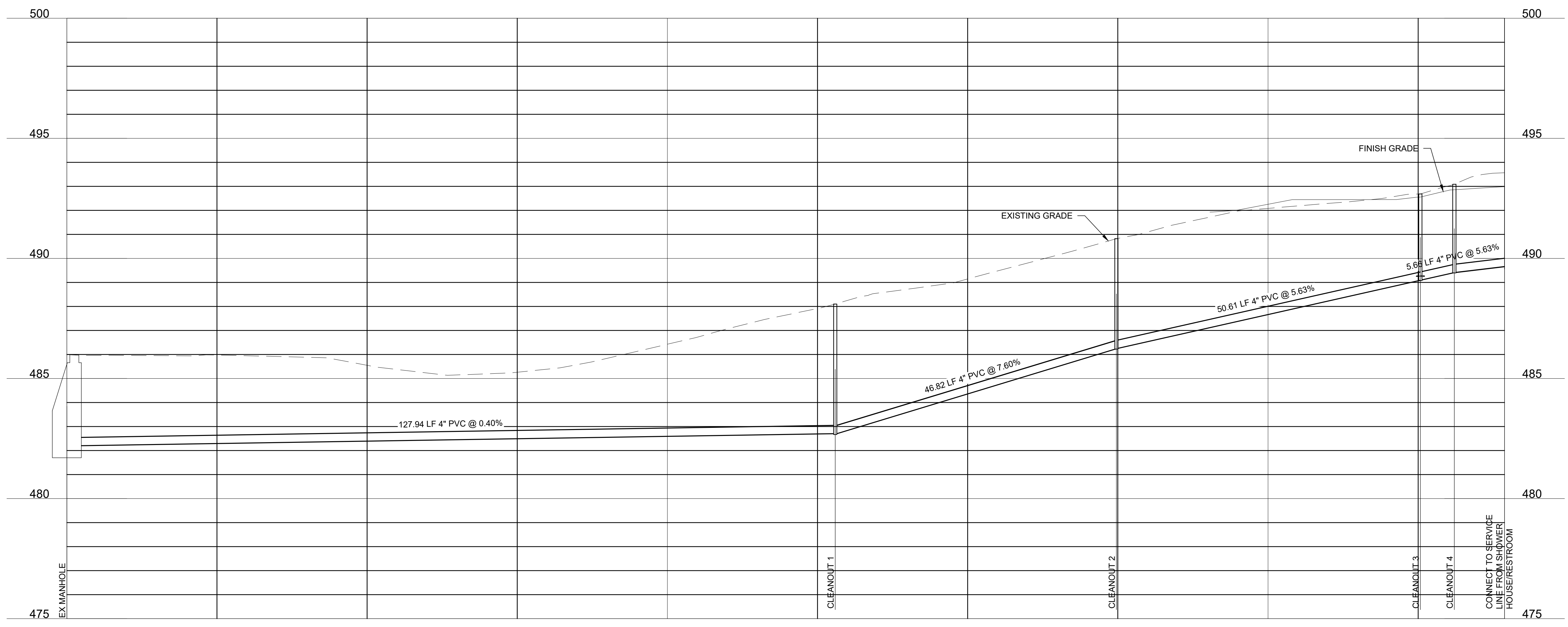
10 OF 38 SHEETS  
10/24/2025



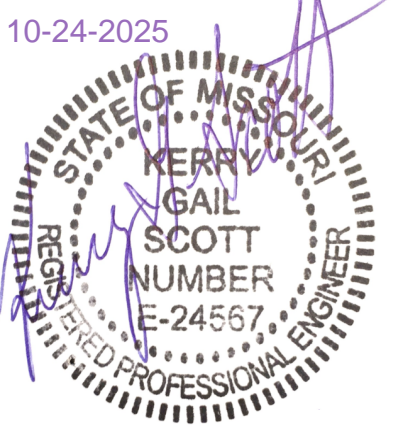
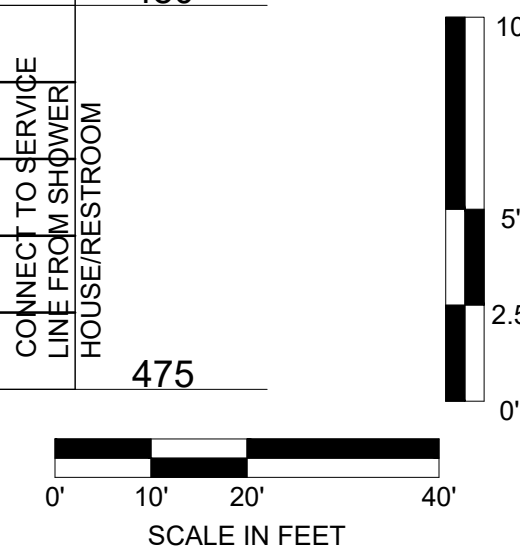
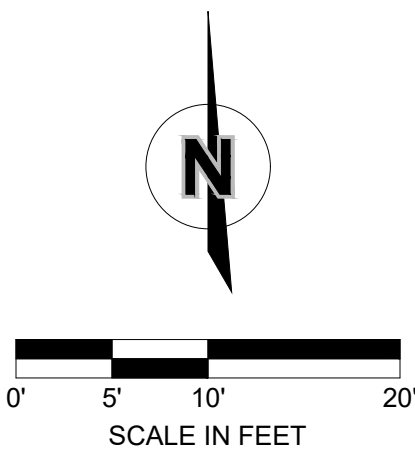


- NOTES:
- EXISTING ASPHALT PAVEMENT
  - EXISTING CONCRETE PAD
  - LOCATE EXISTING WATER LINE AND BEND. INSTALL NEW 2x2x2 TEE 12" NORTH OF BEND. CONNECT NEW 2" PVC (E) AND EXISTING 2" (N) TO TEE.
  - RELOCATE EXISTING VALVE IN CONCRETE VALVE BOX TO 12" FROM TEE (N). ADD NEW VALVE BOX. SEE DETAIL 1 C-107
  - INSTALL 2" BALL VALVE WITH BOX. SEE DETAIL 4 C-107.
  - EXISTING WATER LINE.
  - EXISTING SANITARY SEWER LINE.
  - NEW 2" PVC WATER LINE.
  - NEW 4" PVC SANITARY SEWER LATERAL.
  - INSTALL CLEANOUT. SEE DETAIL 1 C-106.

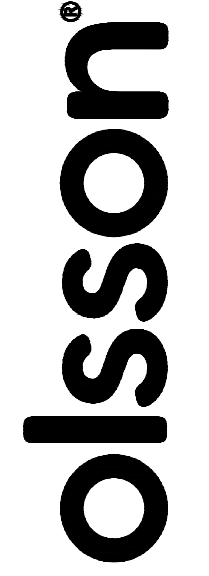
1 SHOWER HOUSE RESTROOM SEWER PLAN  
SCALE: 1" = 10'



2 SHOWER HOUSE RESTROOM SEWER PROFILE  
SCALE: 1" = 10'



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

SHEET TITLE:  
SEWER PLAN  
AND PROFILE

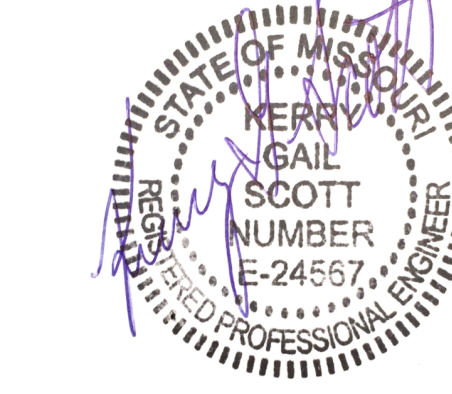
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C-105

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DRAWN BY: TH  
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DESIGNED BY: KS

SHEET TITLE:  
CIVIL DETAILS

SHEET NUMBER:

C-106

12 OF 38 SHEETS  
10/24/2025

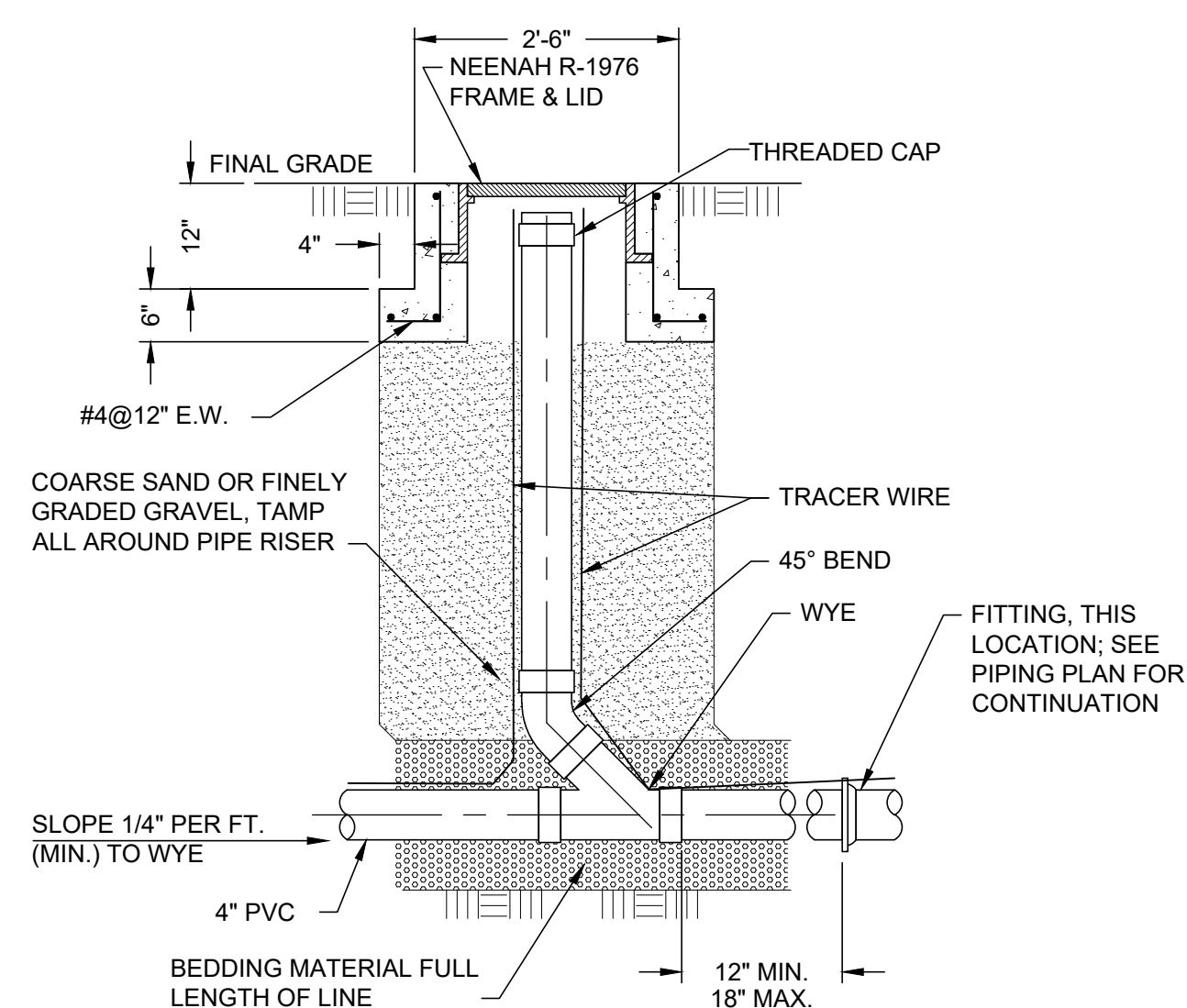


**TRENCH UNDER PAVEMENT NOTES:**

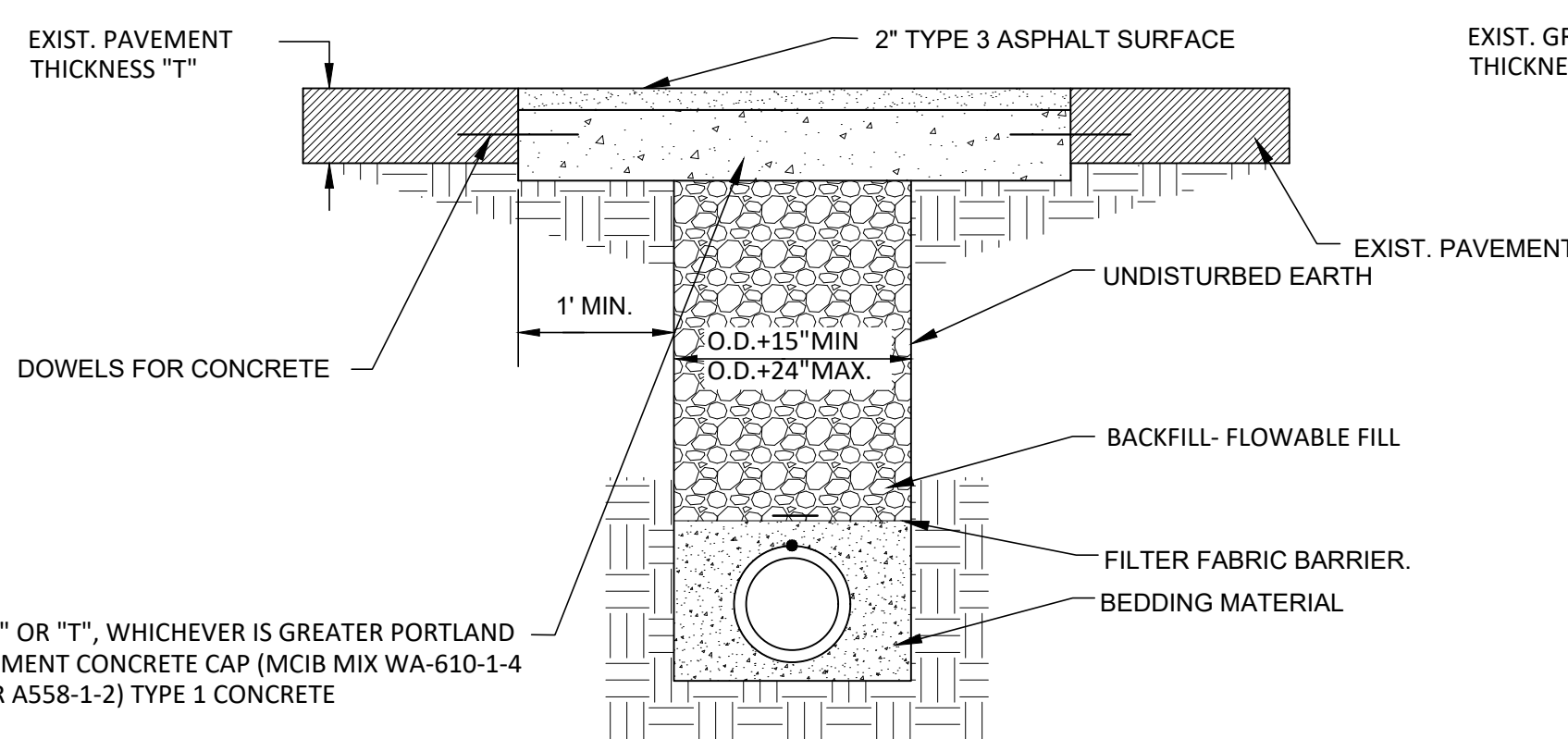
1. NEW SURFACING SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACE AND SHALL MATCH THE SLOPE AND CONTOURS OF THE SURROUNDING PAVEMENT.
2. DRIVEWAY PAVEMENT SHALL BE REMOVED TWELVE (12) INCHES BEYOND THE DISTURBED AREA. IF EXCAVATION IS WITHIN THREE (3) FEET OF AN EXIST. JOINT OR CUT, THE SURFACE SHALL 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.

**TRENCH UNDER GRAVEL DRIVE/SHOULDER NOTES:**

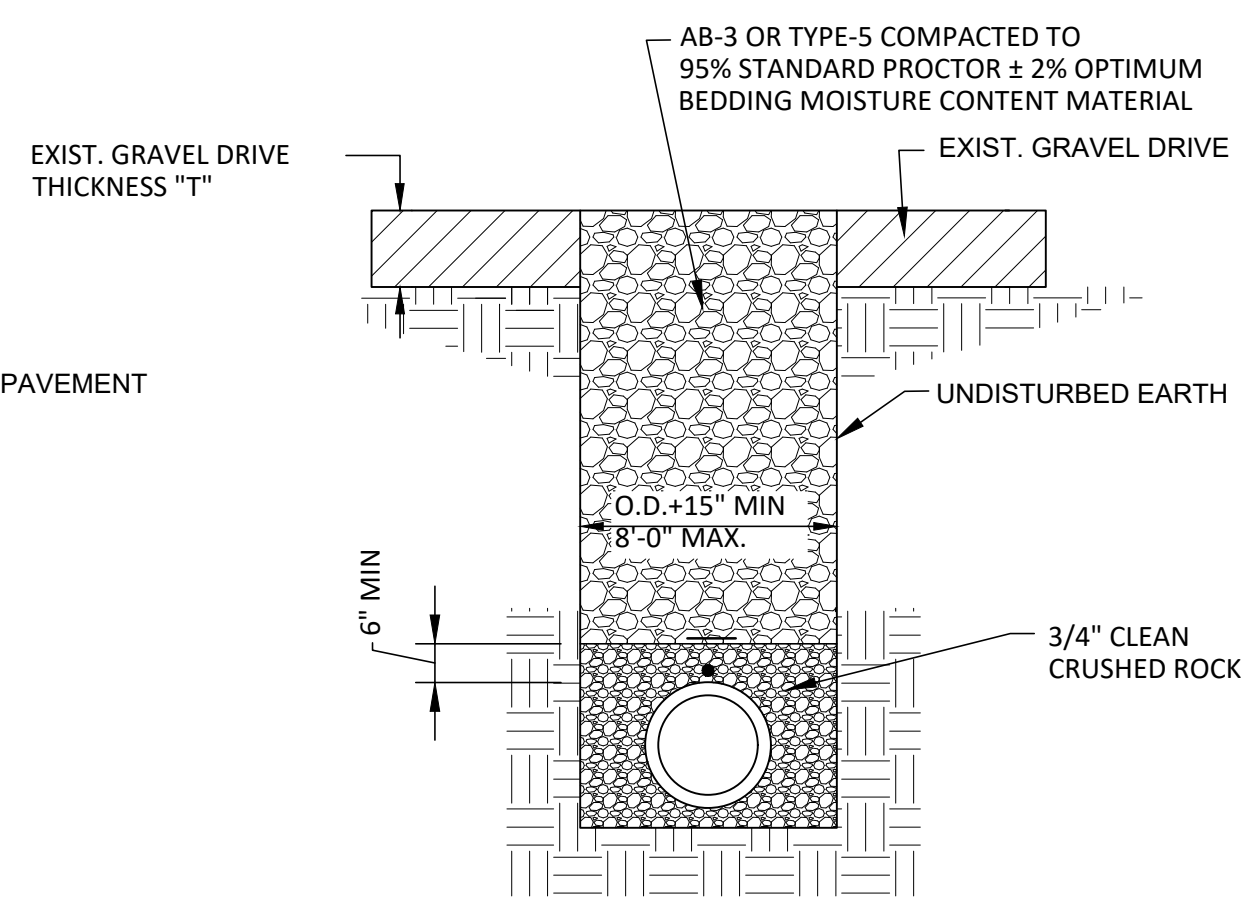
1. NEW SURFACING SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACE AND SHALL MATCH THE SLOPE AND CONTOURS OF THE SURROUNDING PAVEMENT.
2. ROCK BACKFILL SHALL BE AB-3 OR TYPE-5. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR  $\pm$  2% OPTIMUM MOISTURE CONTENT.
3. IN GRASS SHOULDER AREAS, 12" OF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



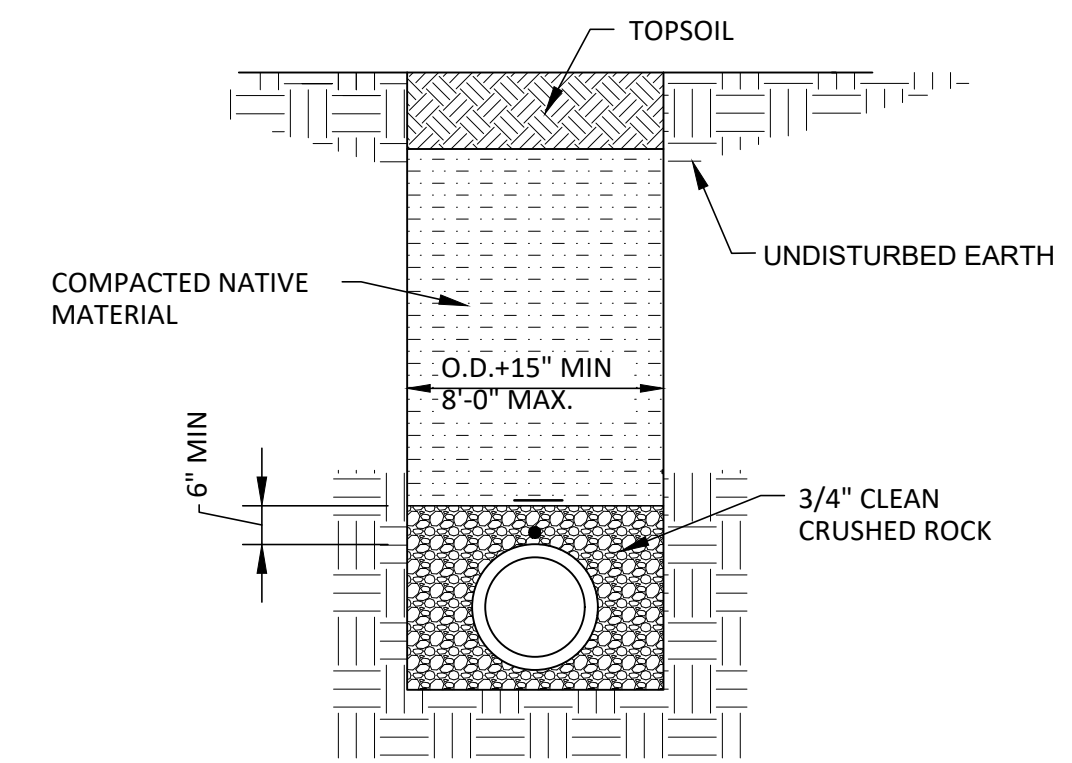
**1 CLEANOUT DETAIL**  
SCALE: NOT TO SCALE



**2 STREET CUT RESTORATION**  
SCALE: NOT TO SCALE



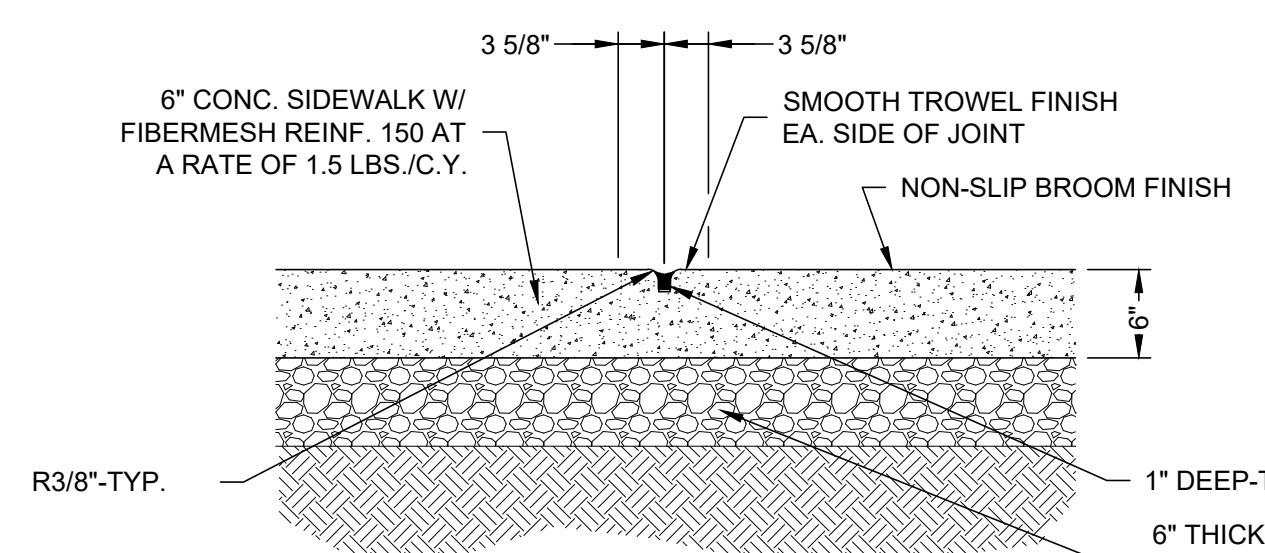
**3 TRENCH UNDER GRAVEL DRIVE & SHOULDER DETAIL**  
SCALE: NOT TO SCALE



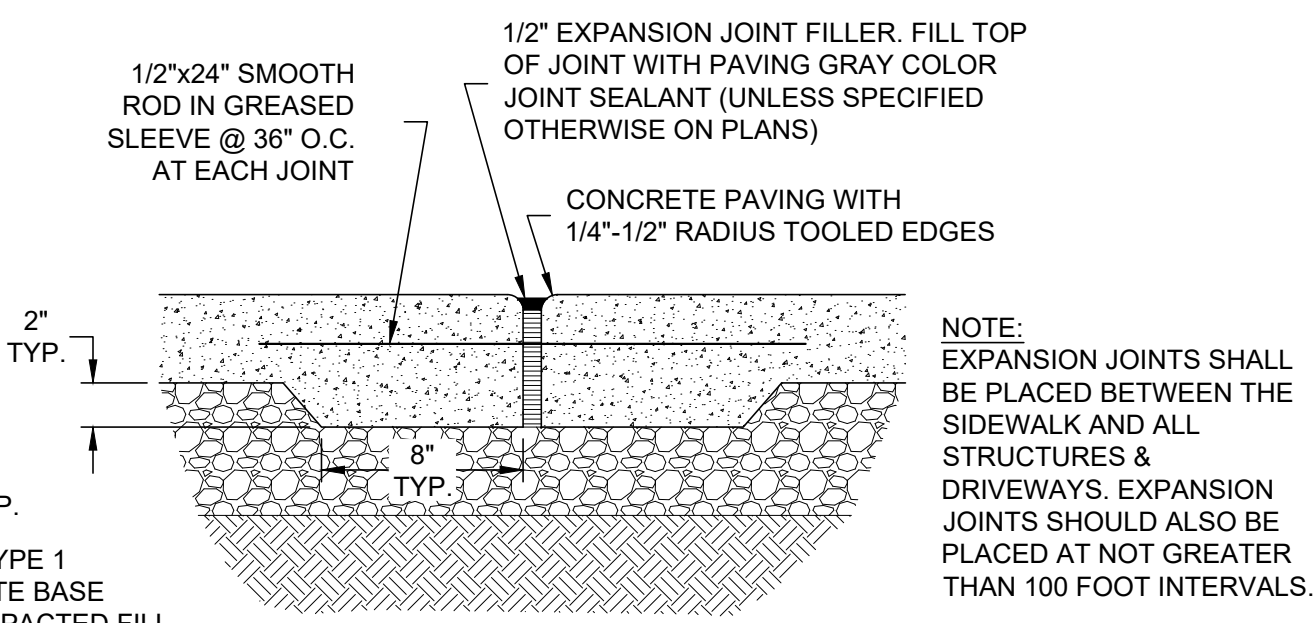
**4 TRENCH UNDER GRASSY AREAS DETAIL**  
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**NOTES:**

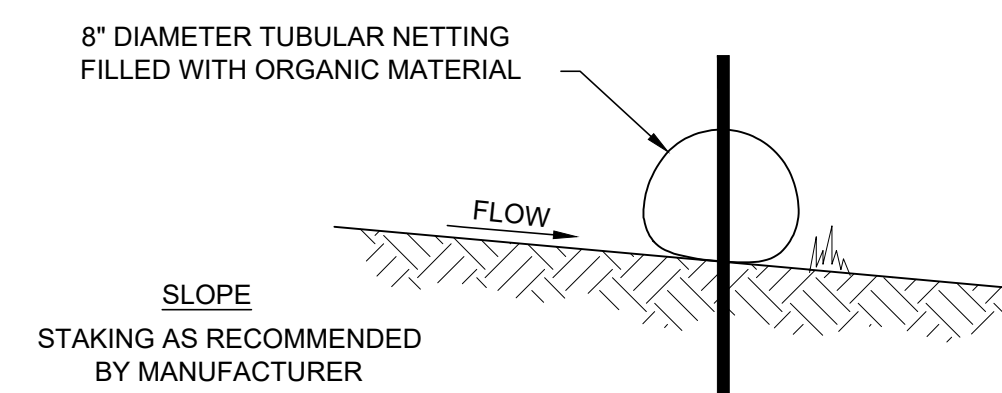
1. EVENLY SPACE TOOLED JOINTS EQUAL TO WIDTH OF SIDEWALKS UP TO 12'-0".



**5 SIDEWALK & TOOLED CONTROL JOINT DETAIL**  
SCALE: NOT TO SCALE



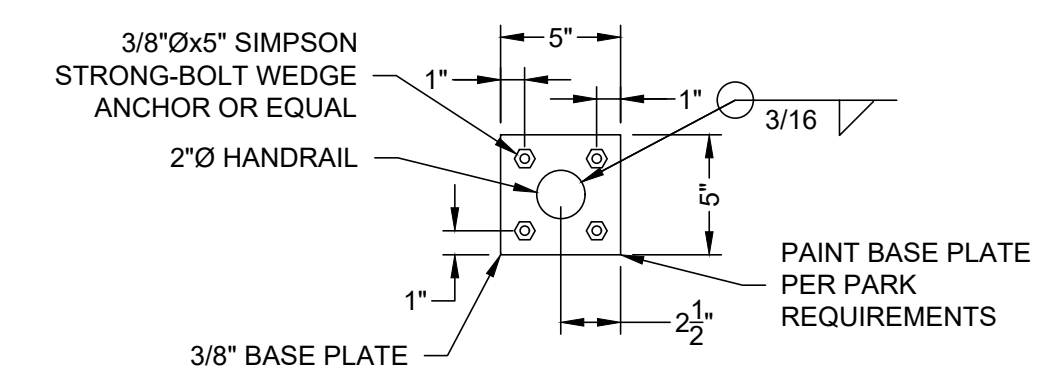
**6 EXPANSION & CONSTRUCTION JOINT DETAIL**  
SCALE: NOT TO SCALE



**7 SEDIMENT BARRIER**  
SCALE: NOT TO SCALE

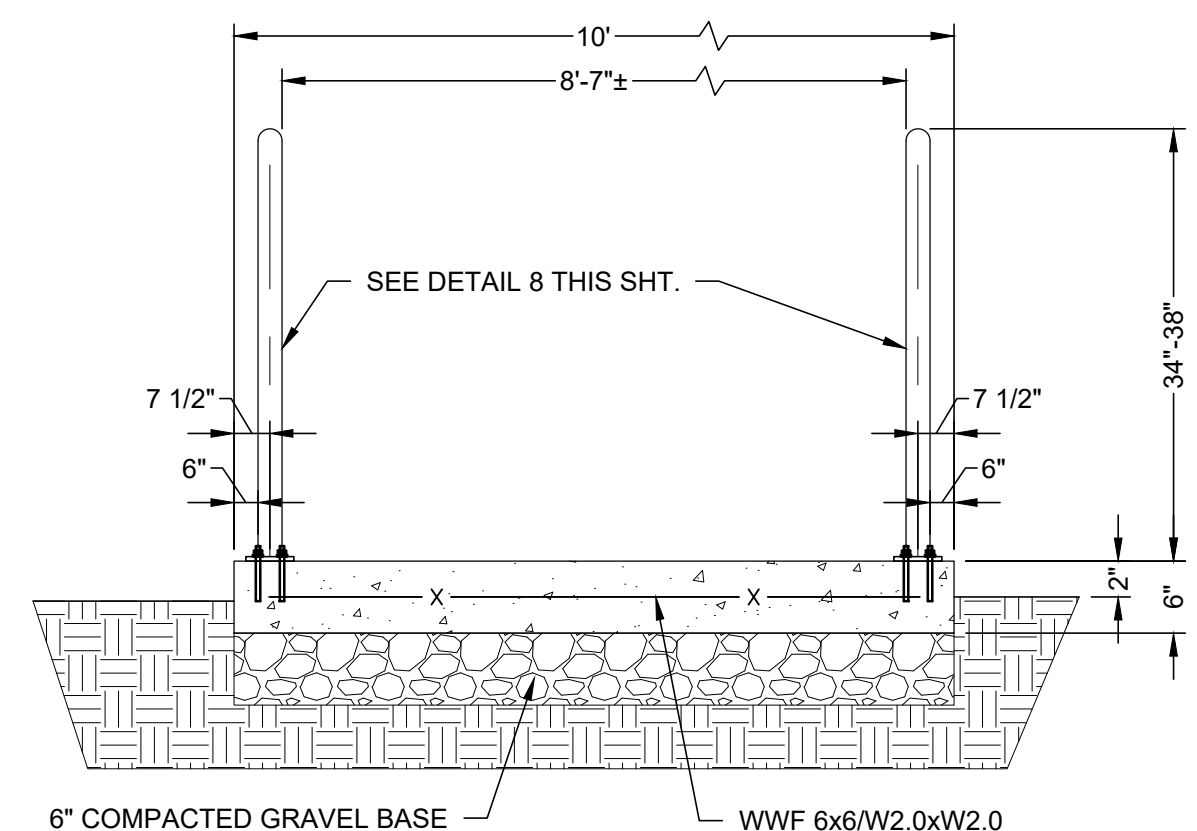
**SEDIMENT BARRIER NOTES:**

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".

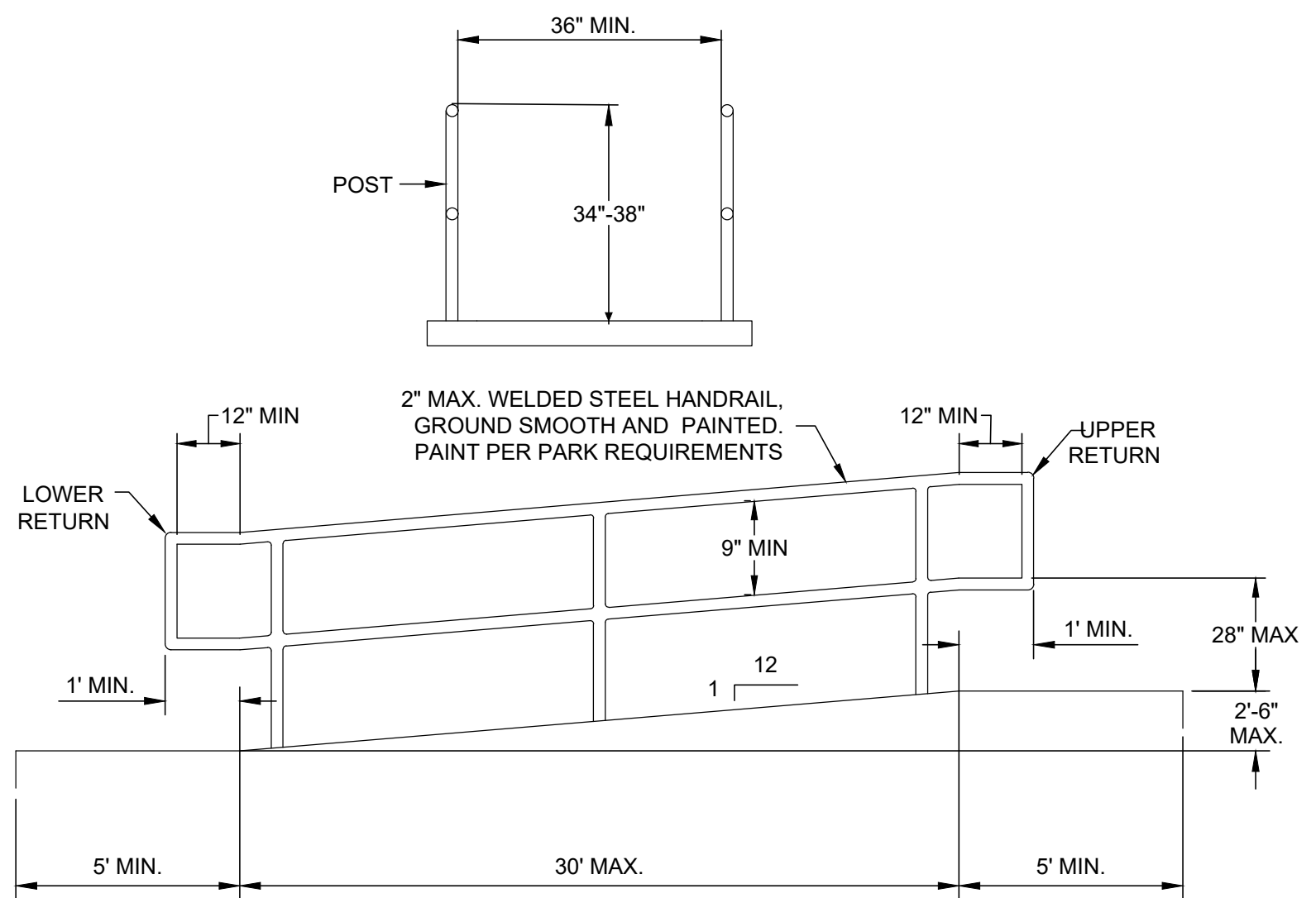


**8 HANDRAIL BASE PLATE DETAIL**  
SCALE: 1" = 1"

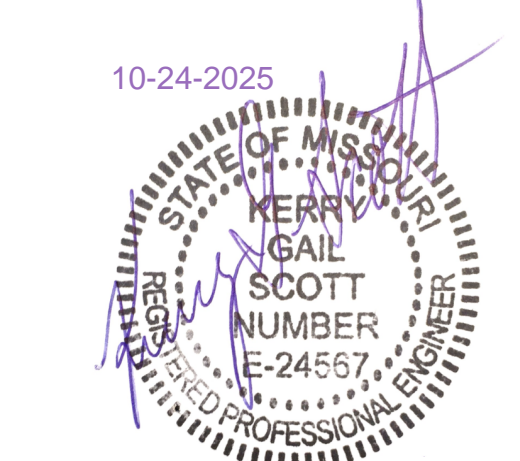
**SIDEWALK DETAILS**  
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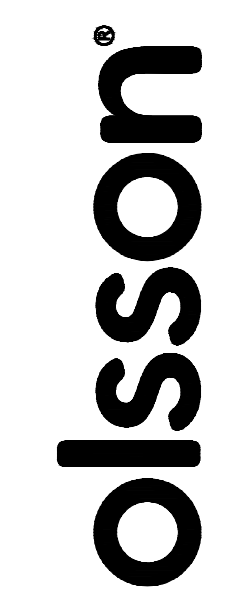
**9 HANDICAP SIDEWALK SECTION**  
SCALE: NOT TO SCALE



**10 HANDICAP RAMP HANDRAIL DETAIL**  
SCALE: NOT TO SCALE



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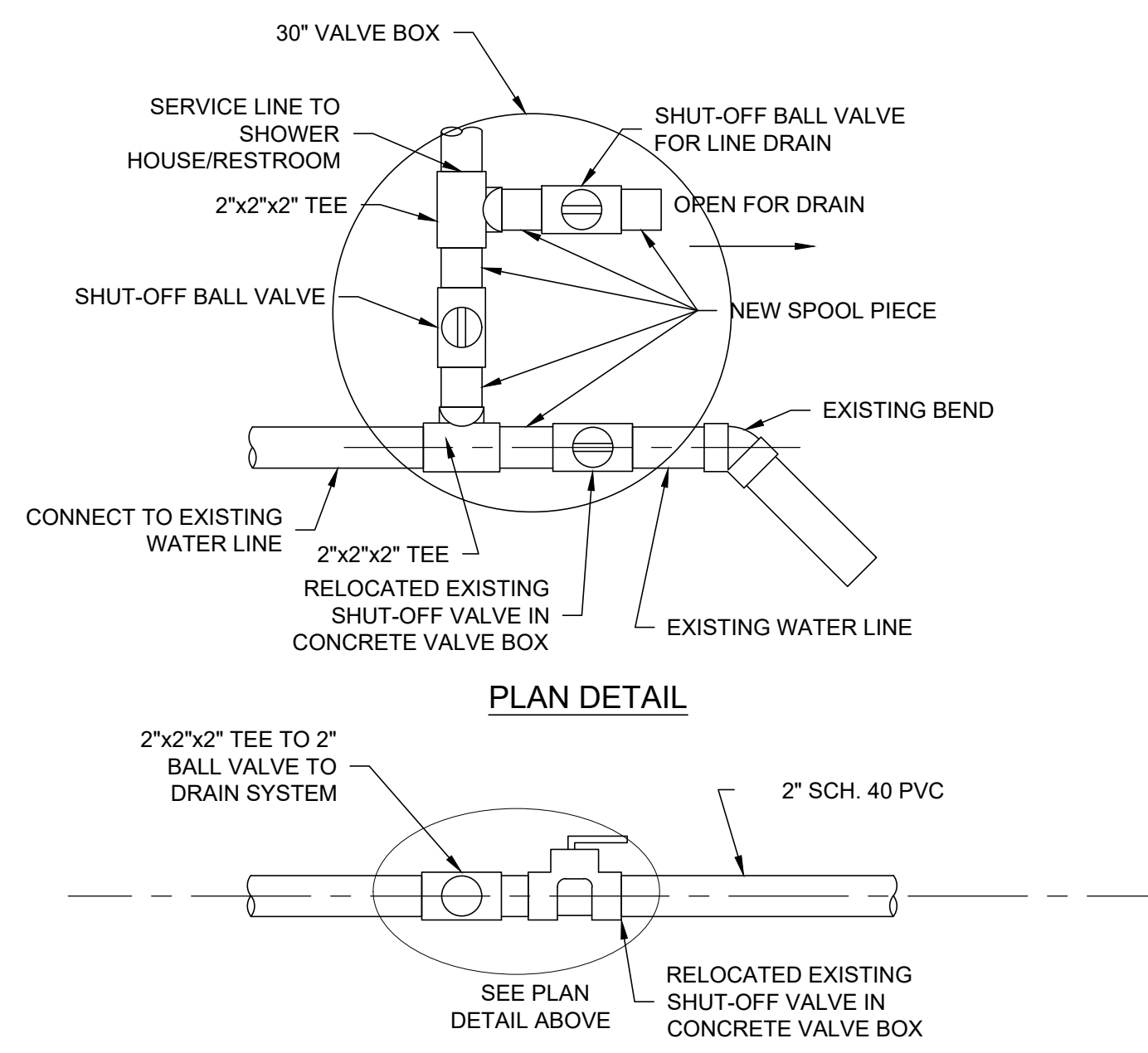
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CHECKED BY: KS  
DESIGNED BY: KS

SHEET TITLE:  
CIVIL DETAILS

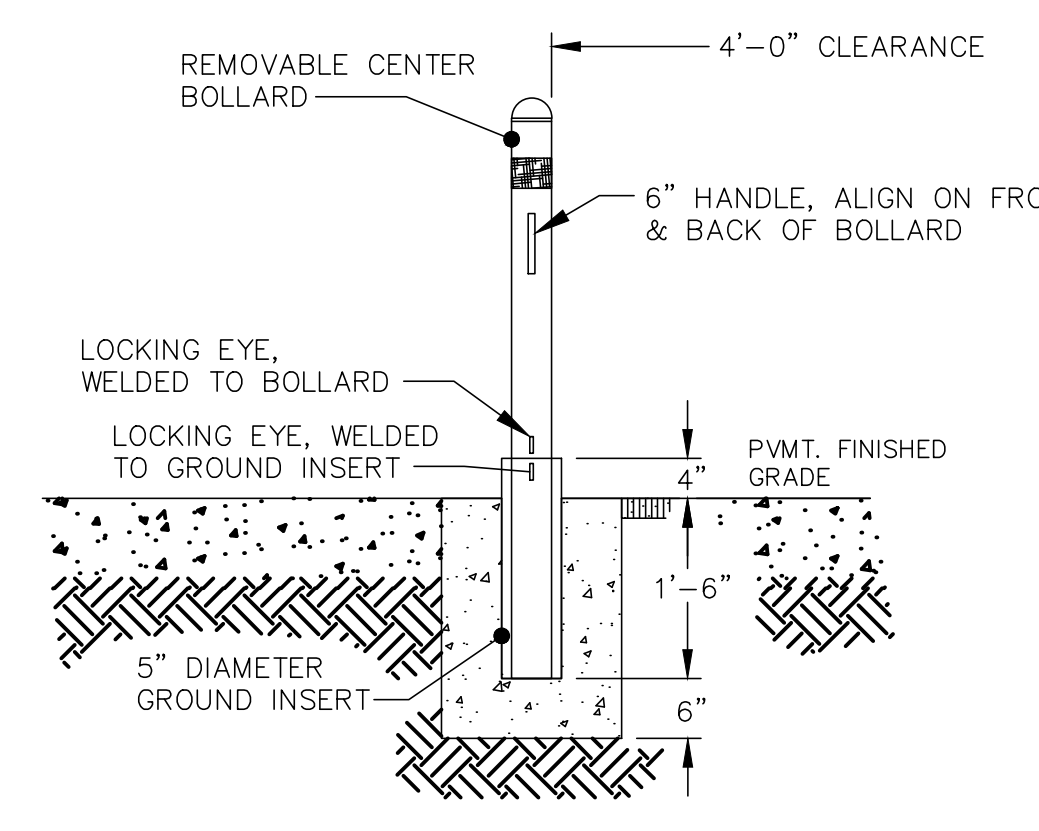
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C-107

13 OF 38 SHEETS  
10/24/2025

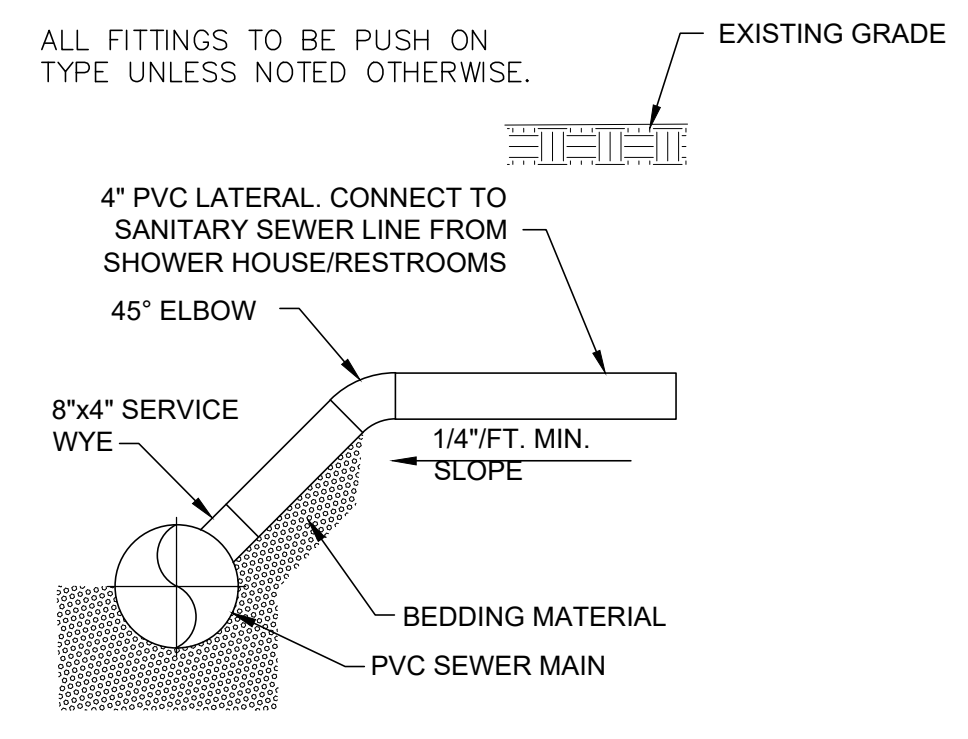


NOTE: INSTALL WATER SERVICE CONNECTION VALVE ASSEMBLY IN 48" Ø PRECAST MANHOLE RATED FOR TRAFFIC.  
**1 WATER SERVICE CONNECTION ASSEMBLY**  
SCALE: NOT TO SCALE

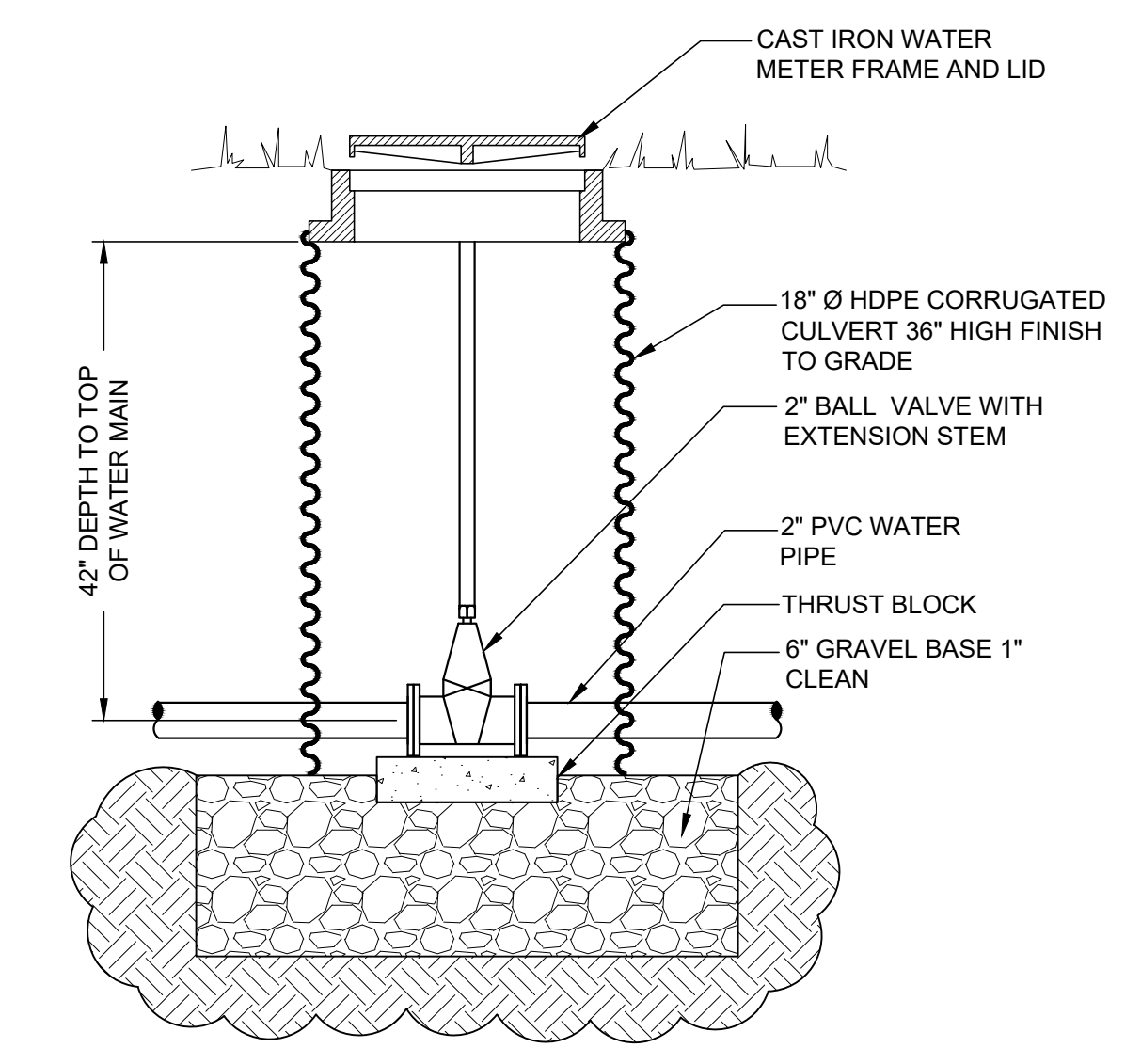


**2 REMOVAL BOLLARD DETAIL**  
SCALE: NOT TO SCALE

NOTES:  
1. ALIGN BOLLARD PIPE & GROUND INSERT SO EYES ARE LOCATED AT BACK OF BOLLARD & NOT PROTRUDING INTO TRAVEL WAY.  
2. ALL METAL SHALL BE GALVANIZED PAINT, ONE COAT METAL PRIMER AND TWO COATS BENJAMIN MOORE BRIGHT YELLOW METAL ENAMEL.

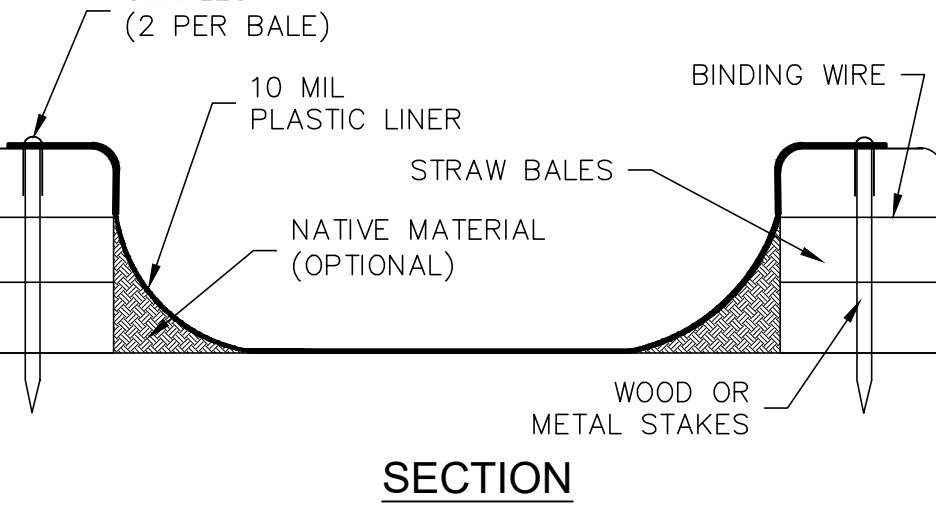
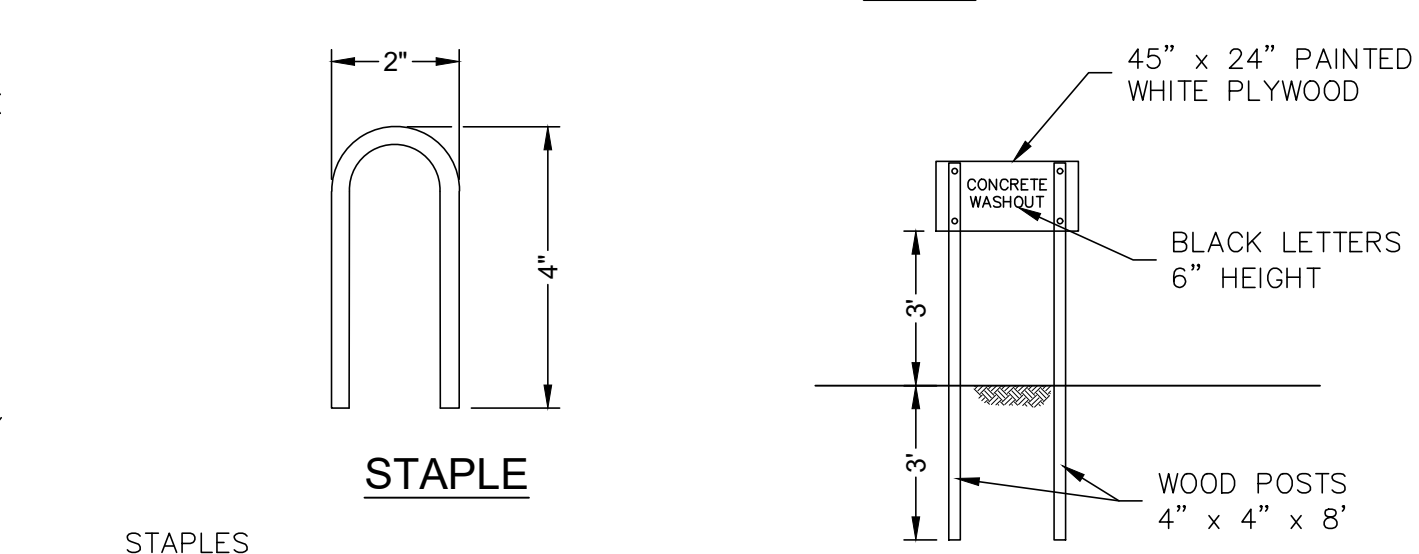
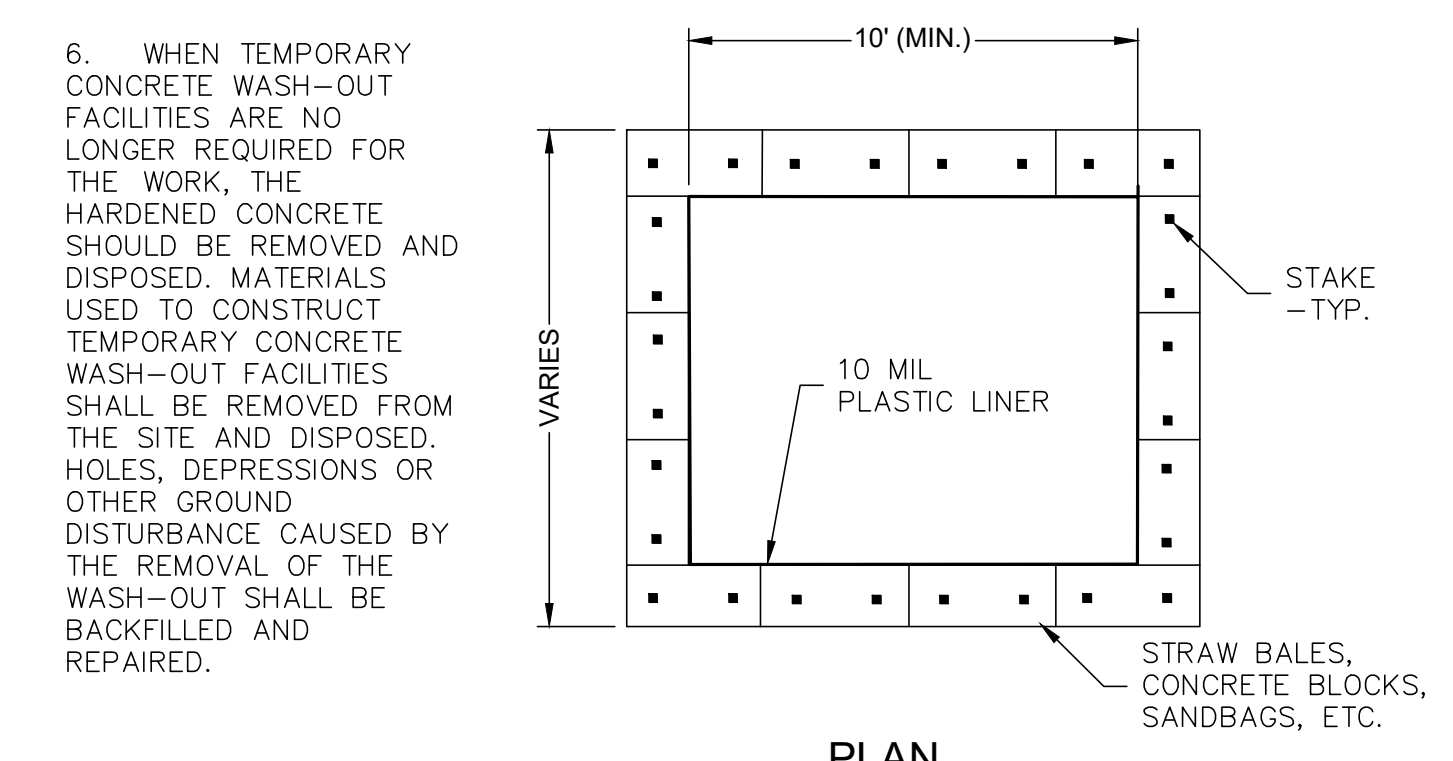


ALL FITTINGS TO BE PUSH ON TYPE UNLESS NOTED OTHERWISE.  
**3 SEWER LATERAL SERVICE CONNECTION**  
SCALE: NOT TO SCALE

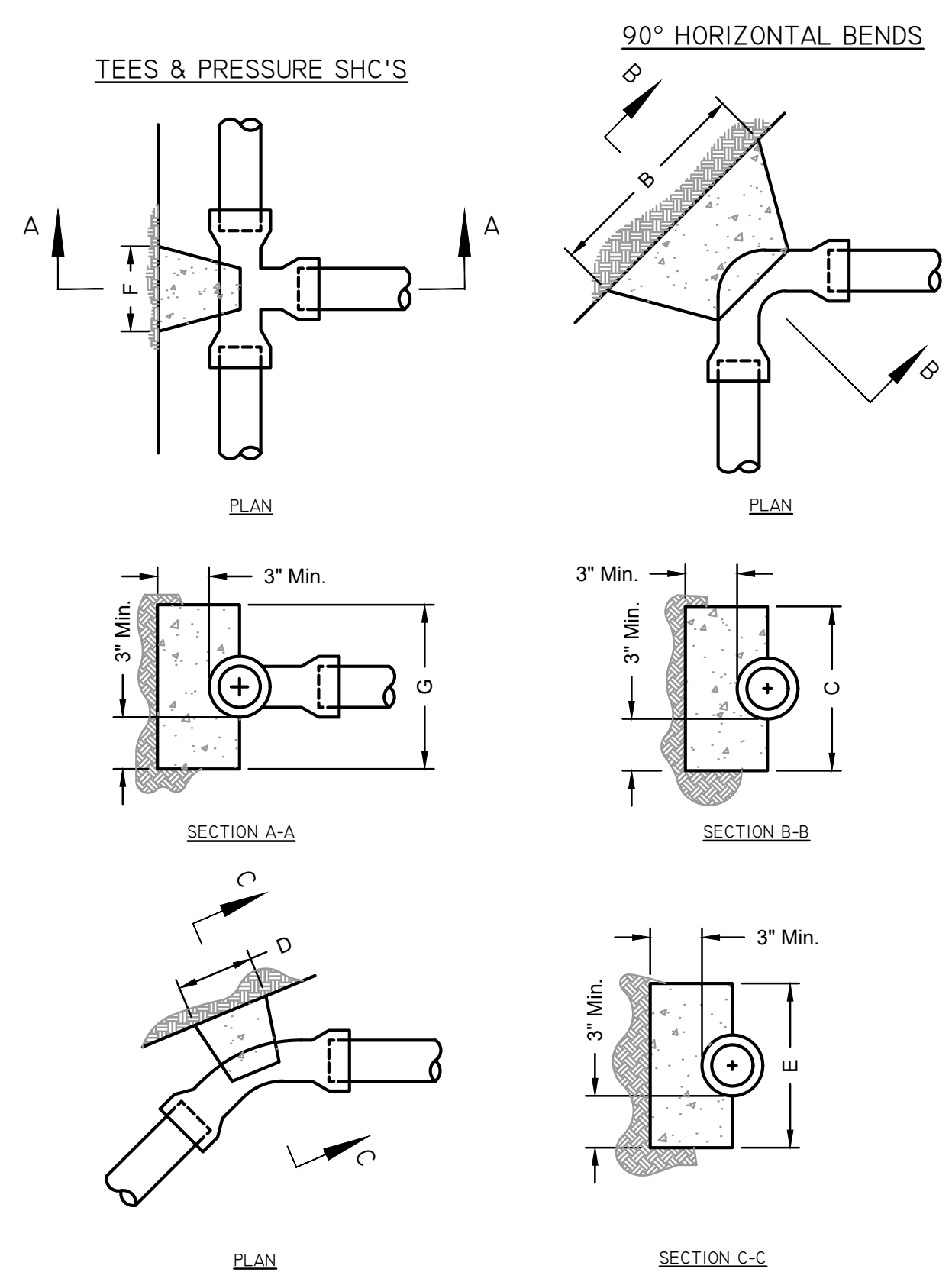


**4 BALL VALVE INSTALLATION**  
SCALE: NOT TO SCALE

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.



**5 CONCRETE WASHOUT DETAIL**  
SCALE: NOT TO SCALE



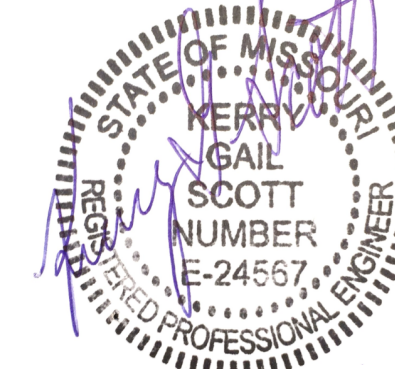
11 1/4", 22 1/2", 45" HORIZONTAL AND LOWER VERTICAL BENDS

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"

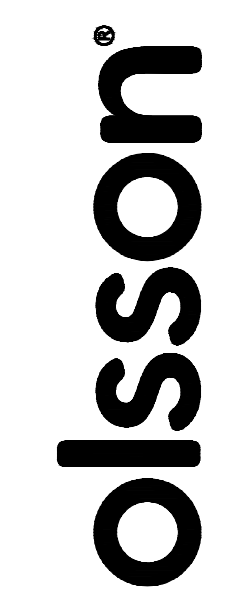
NOTES:  
1. USE TYPE 1 CONCRETE  
2. CARRY ALL BEARING SURFACES TO UNDISTURBED GROUND OR FIRM SUBGRADE  
3. BUTTRESS SIZED FOR 180 PSI  
4. DO NOT ENCASE JOINTS  
5. ONLY MIX WITH POTABLE WATER

**6 CONCRETE WASHOUT DETAIL**  
SCALE: NOT TO SCALE

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STATE PARKS

CAMPGROUND  
SHOWER HOUSE  
REPLACEMENT

WAKONDA  
STATE PARK  
La Grange

PROJECT # X2531-01  
SITE # 5116  
ASSET # 7815116003

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

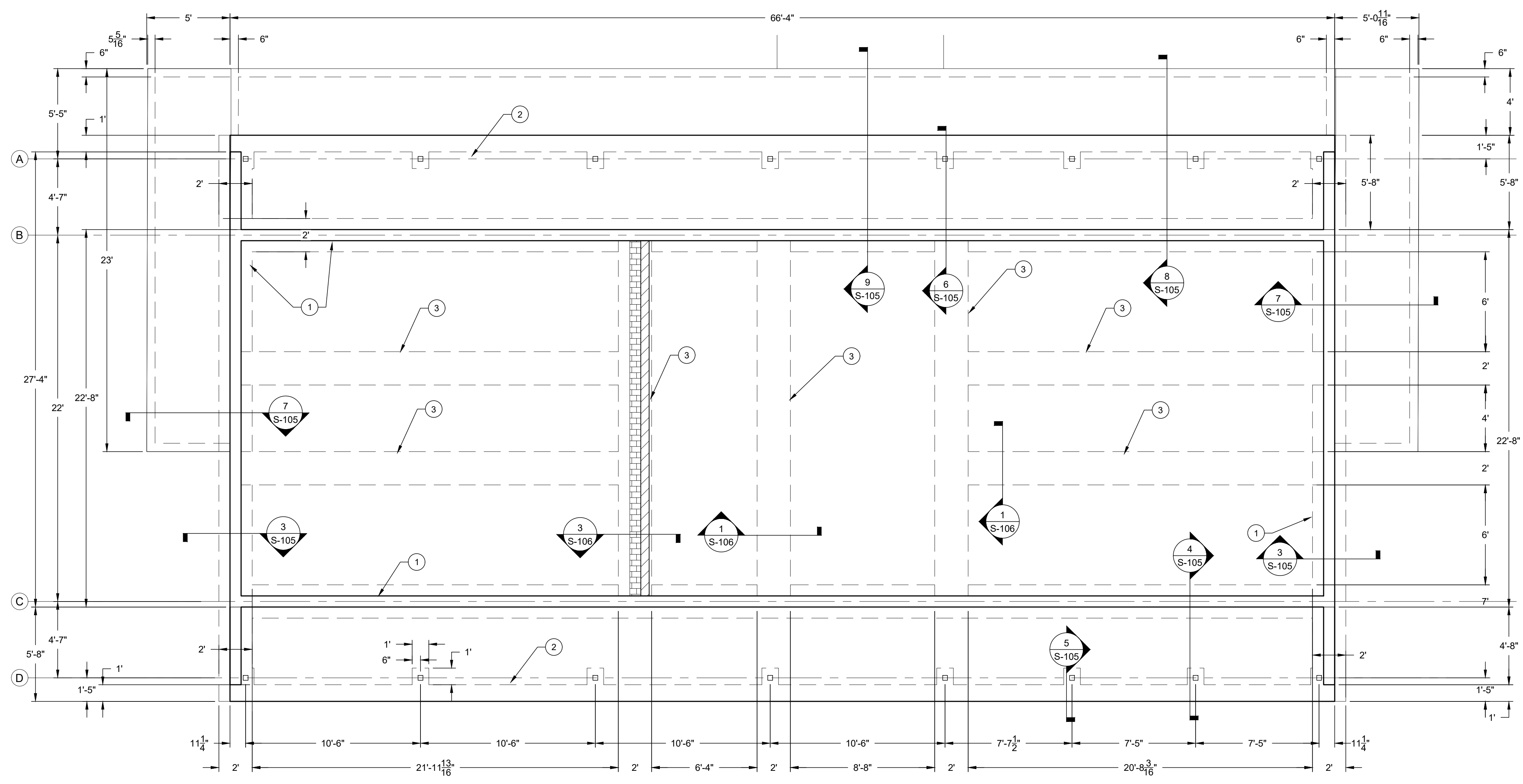
14 OF 38 SHEETS  
10/24/2025

NOTES:

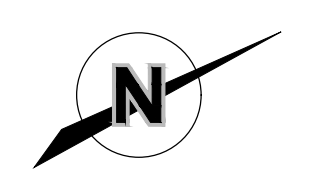
1. CONTINUOUS 1'x2' SPREAD FOOTING WITH 8" POURED IN PLACE CONCRETE STEM WALL. SEE SECTION 3/S-105.
2. CONTINUOUS TURNED DOWN SLAB FOOTING. SEE SECTION 4/S-105.
3. THICKENED SLAB UNDER CMU WALL. SEE DETAIL 1/S-105.

WALL LEGEND

- NON-LOAD BEARING WOOD WALL
- FIRE BARRIER CMU WALL



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





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ISSUE DATE: 10/24/2025

CAD DWG FILE: S-FP-01.dwg  
DRAWN BY: TMH  
CHECKED BY: KGS  
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SHEET TITLE:  
FRAMING PLAN

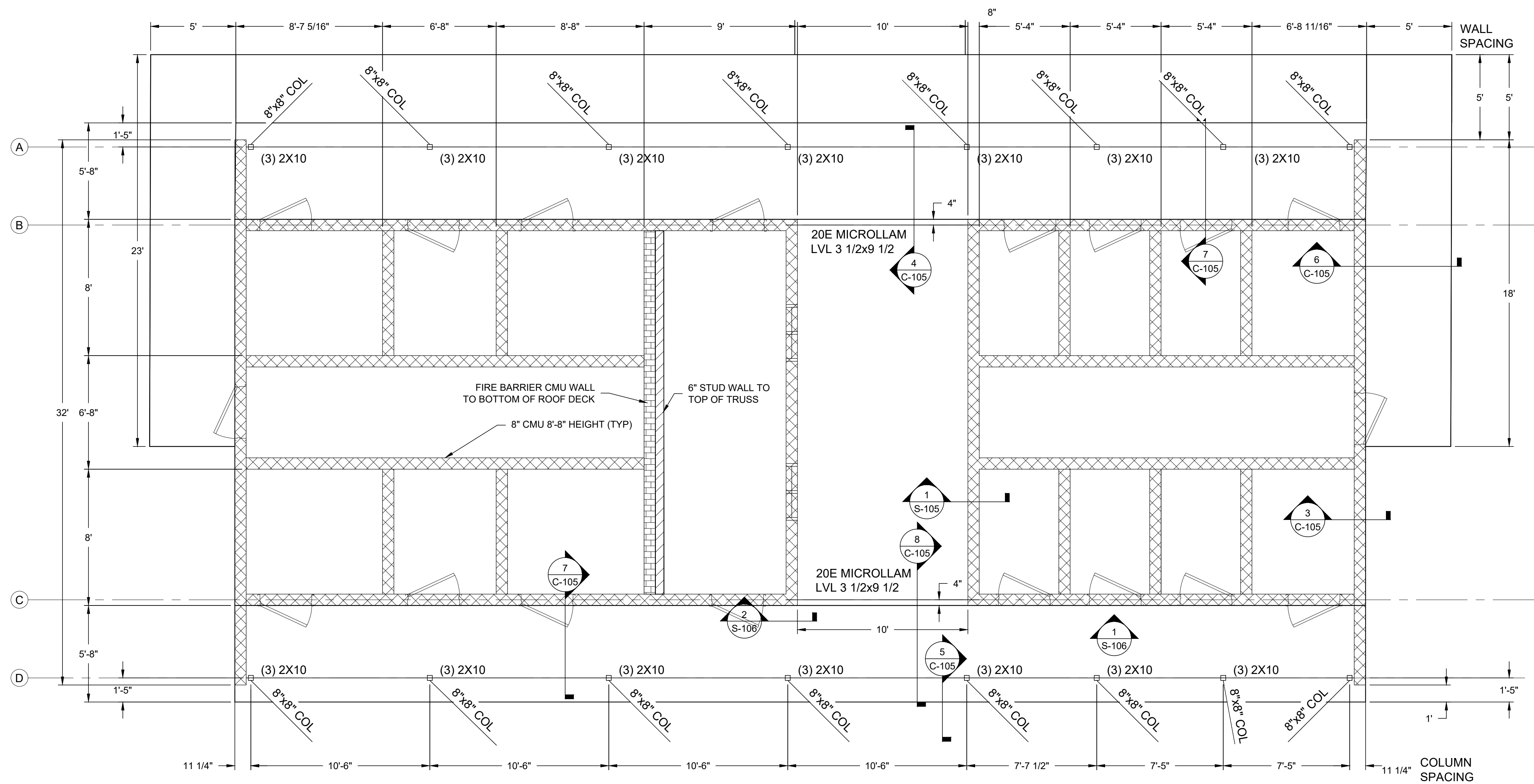
SHEET NUMBER:

S-103

16 OF 38 SHEETS  
10/24/2025

WALL LEGEND

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



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



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ISSUE DATE: 10/24/2025

CAD DWG FILE: S-FP-01.dwg  
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SHEET TITLE:  
**TRUSS FRAMING  
PLAN**

SHEET NUMBER:

**S-104**

17 OF 38 SHEETS  
10/24/2025

**TRUSS REQUIREMENTS:**

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

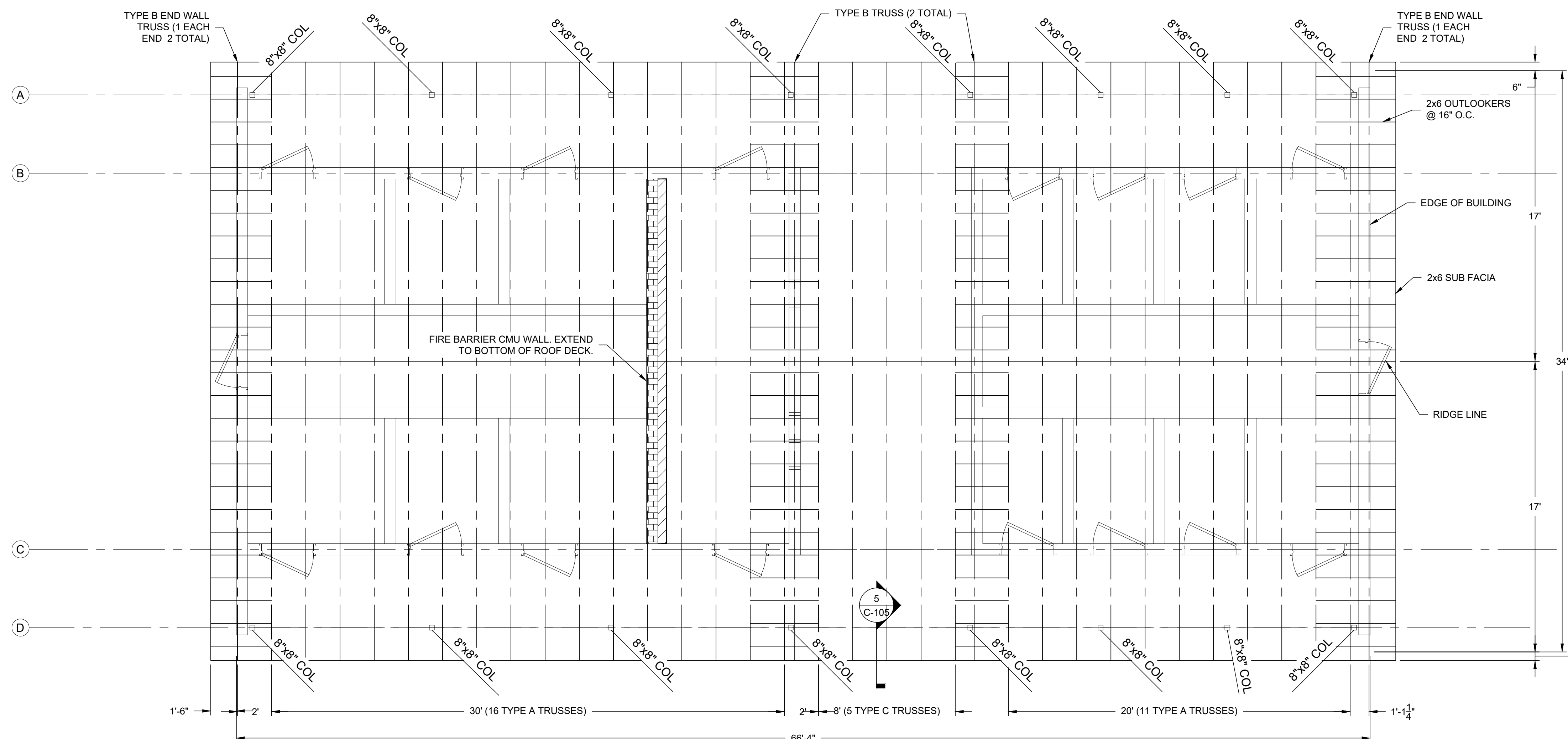
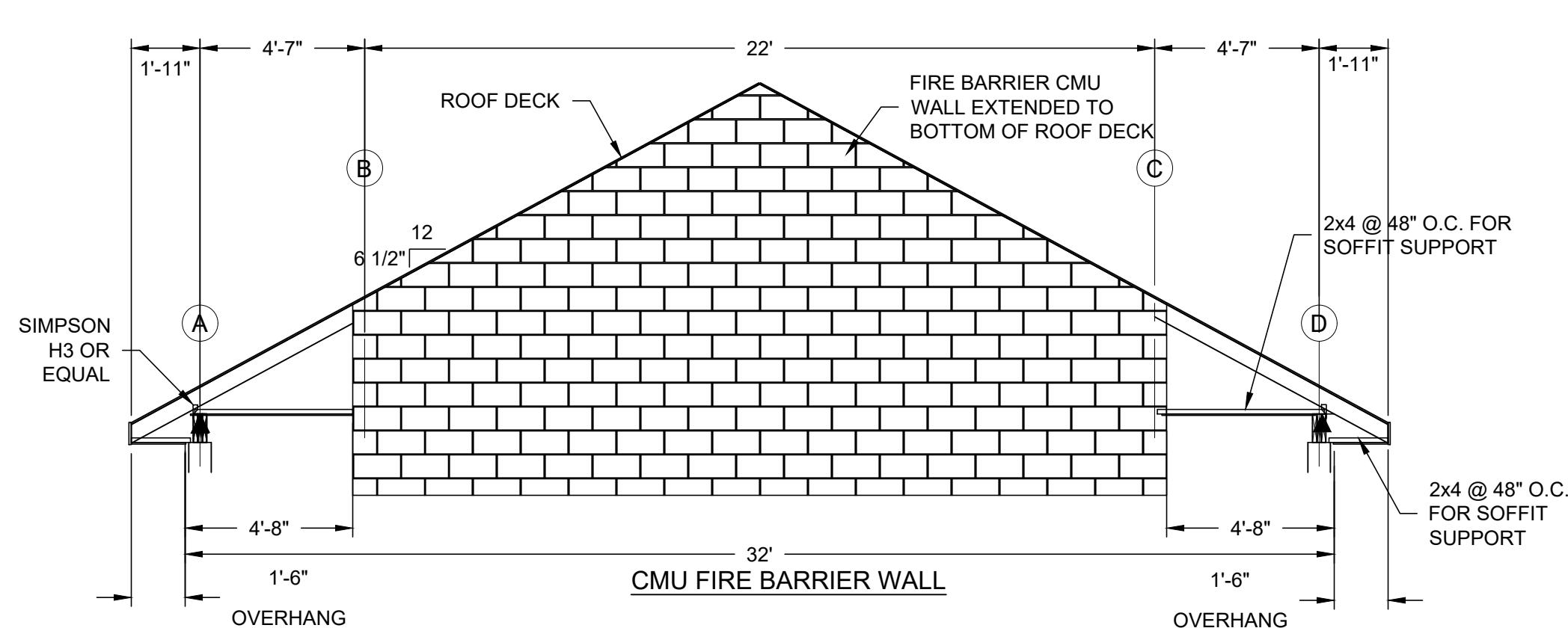
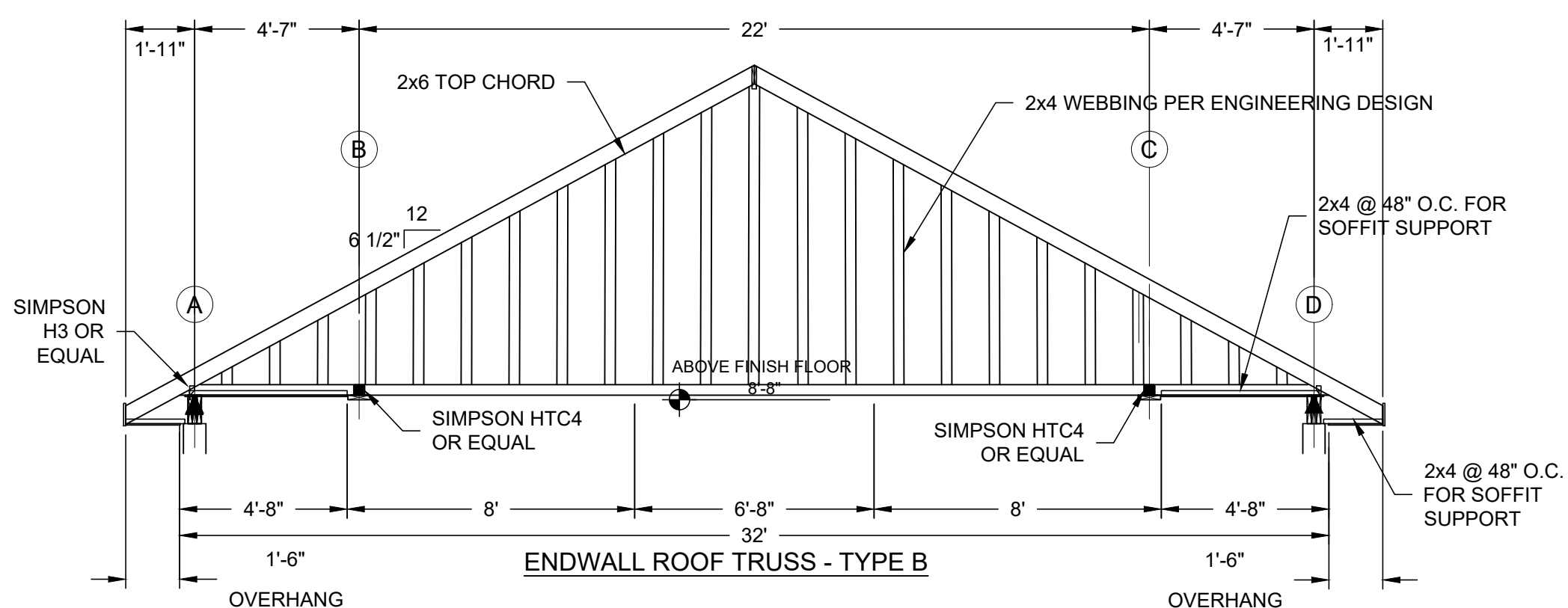
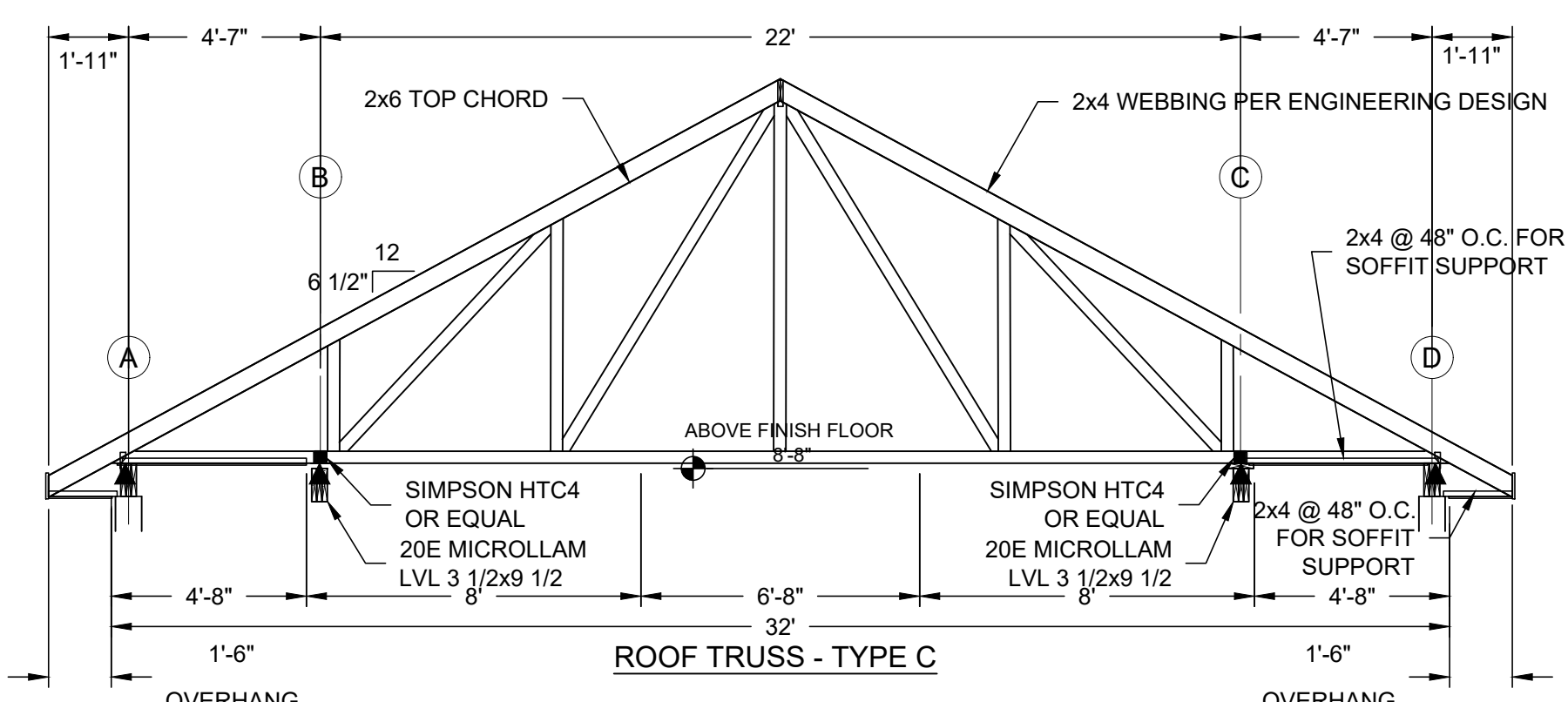
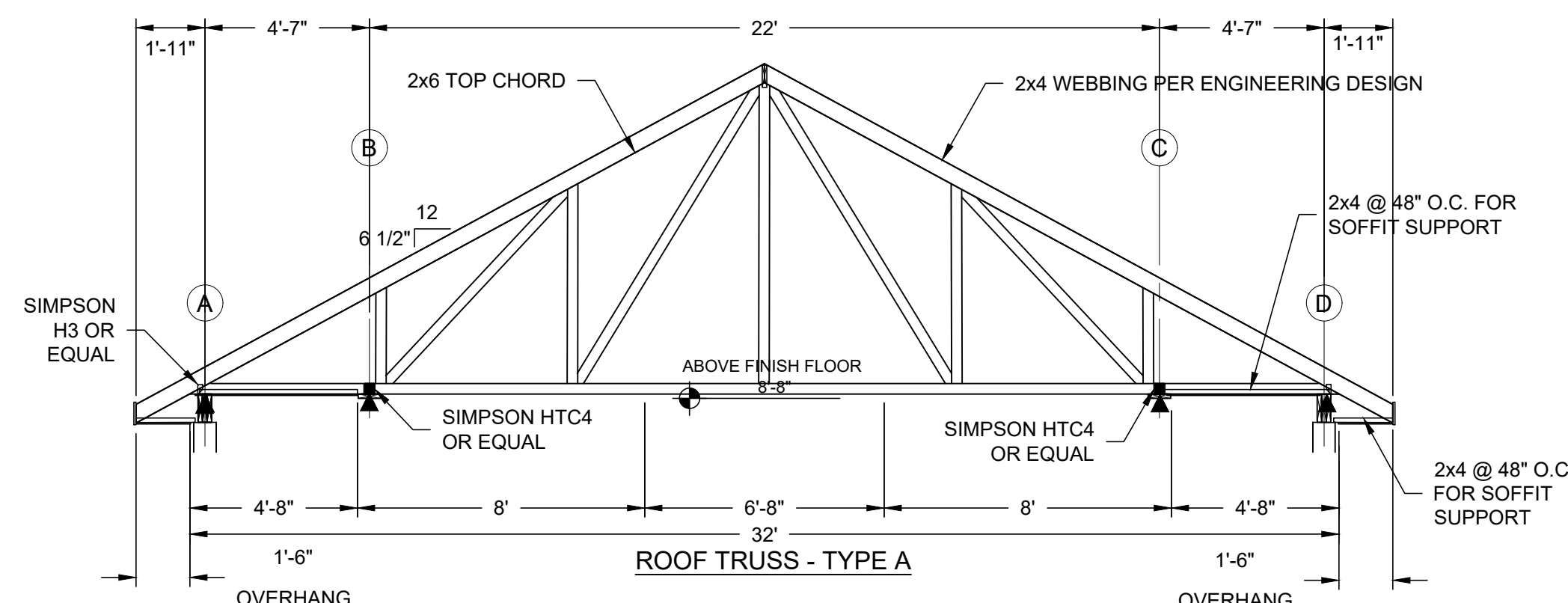
WOOD TRUSSES SHALL BE FABRICATED BY A MANUFACTURER HAVING A MINIMUM OF TEN (10) YEARS EXPERIENCE IN ENGINEERING AND MANUFACTURING PRE-FABRICATED WOOD TRUSSES. TRUSS MANUFACTURER SHALL PROVIDE MANUFACTURER'S MATERIAL SPECIFICATIONS AND CERTIFY THEIR COMPLIANCE WITH THESE PROJECT REQUIREMENTS. ENGINEERING 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

**WALL LEGEND**

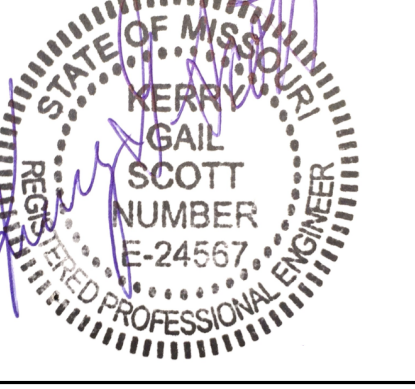
INDICATES FIRE BARRIER.  
INDICATES NON-LOAD BEARING WOOD WALLS.



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



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DESIGNED BY: KGS

SHEET TITLE:  
**STRUCTURAL  
DETAILS**

SHEET NUMBER:

**S-105**

18 OF 38 SHEETS  
10/24/2025

CONVENTIONAL 2X FRAMING

- 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.
- EXTERIOR WALLS ARE 2X4 #2 SYP. STUDS AND PLATES. STUD IS 12" O.C. UNO.
- INTERIOR LOAD BEARING WALLS ON CMU ARE 2X4 SYP. STUD GRADE STUDS AND PLATES. SPACING IS 16" O.C. UNO.
- INTERIOR NON-LOAD BEARING WALLS ARE 2X4 STUD GRADE STUDS AT 24" O.C. UNO.
- INDICATES LOAD BEARING WALLS.
- INDICATES NON-LOAD BEARING WALLS.
- INDICATES CMU WALLS.
- MISC FRAMING MATERIAL (SILLS, CRIPPLES, ETC.) TO BE #2 SYP. UNO.
- HEADER MATERIAL TO BE MINIMUM OF #2 SYP.
- SHEATHING IS TO BE APA RATED STRUCTURAL SHEATHING (ALL EDGES TO BE BLOCKED)
- MATERIALS MUST BE GRADE MARKED.
- BOLT HOLES THROUGH WOOD SHALL BE DRILLED 1/16" MAXIMUM LARGER THAN THE DIAMETER OF THE BOLTS TO BE INSTALLED.
- BOLTS THROUGH WOOD SHALL BE FITTED WITH STANDARD WASHERS AT HEAD AND NUT ENDS.
- 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
- SHEATHING IS TO BE 7/16" APA RATED STRUCTURAL SHEATHING (ALL EDGES TO BE BLOCKED)
- SHEATHING IS TO BE ATTACHED USING 8D COMMON NAILS @ 6" O.C. (EDGE) AND 12" O.C. (INTERMEDIATE).
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING AND WALL HEIGHTS.
- 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.

CONCRETE COVER FOR REINFORCING

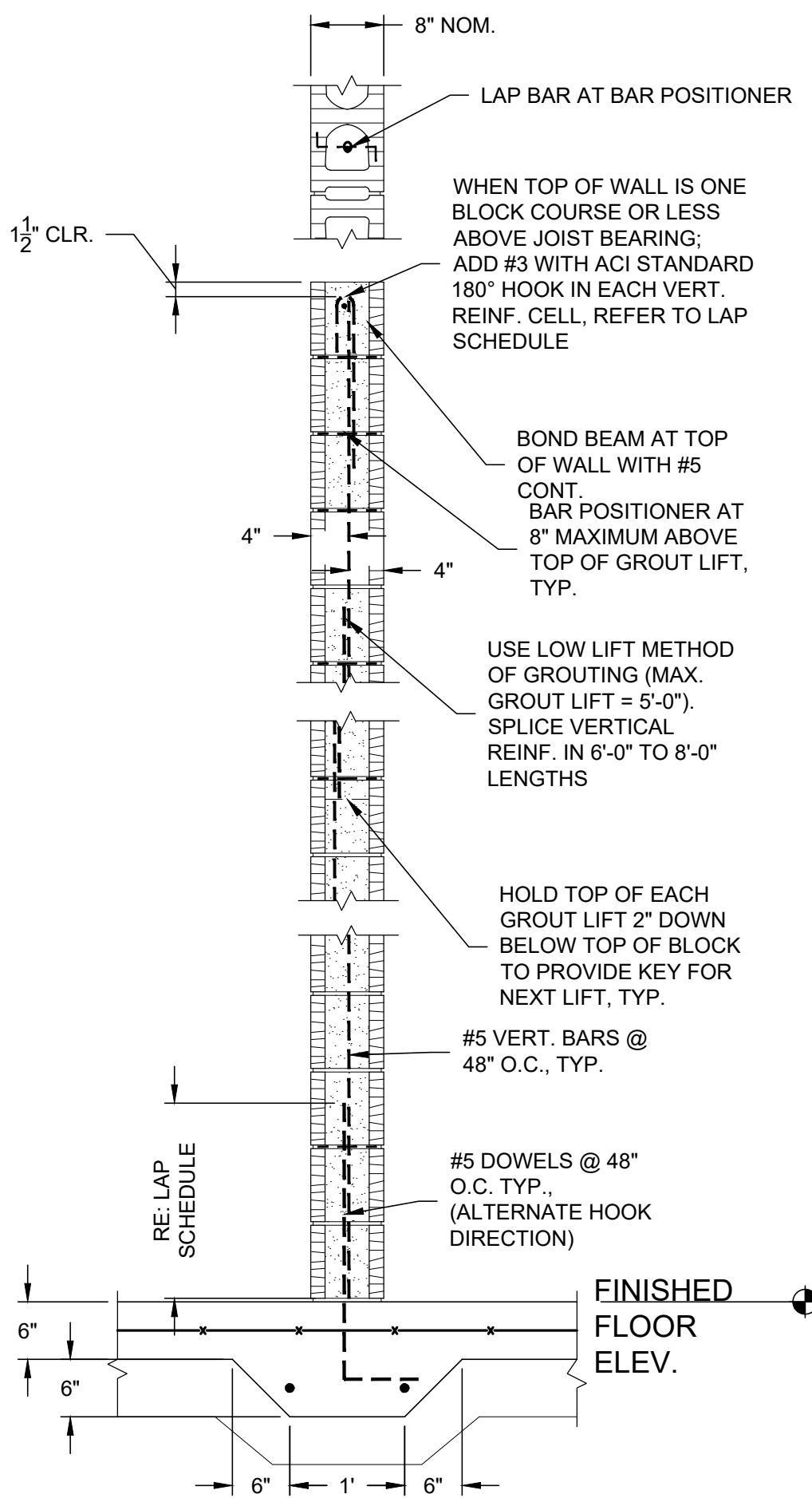
LOCATION	MINIMUM COVER
UNFORMED SURFACES ADJACENT TO EXCAVATION	3"
FORMED OR TOP SURFACES EXPOSED TO WEATHER OR SATURATED AIR, SUBMERGED OR IN CONTACT WITH EARTH	
#6 OR LARGER BARS	2"
#5 OR SMALLER BARS	1-1/2"
OTHER LOCATIONS	
BARS IN BEAMS OR GIRDERS, INCLUDING STIRRUPS AND COLUMN SPIRALS OR TIES	1-1/2"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

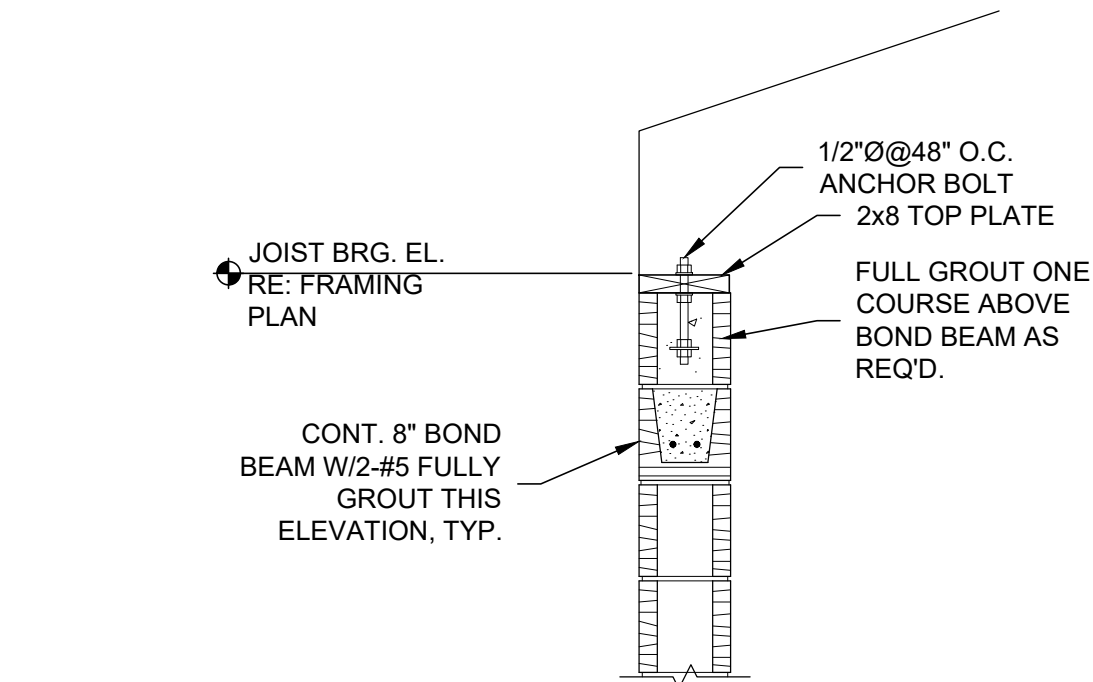
REINFORCING SPLICE, EMBEDMENT AND COVER REQUIREMENTS

NOTES:

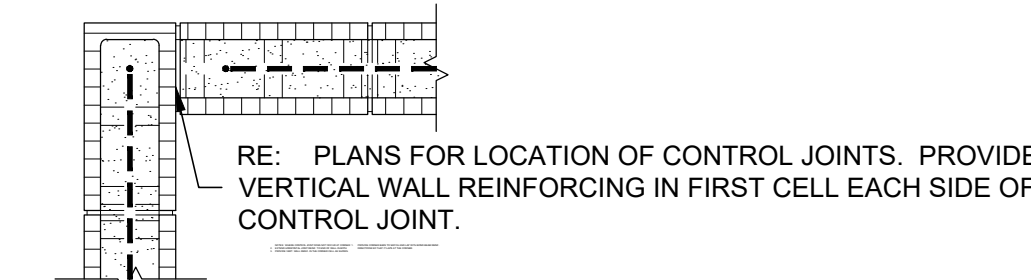
- GROUT SOLID ALL CELLS WITH REINFORCING.
- USE BOND BEAM BLOCKS WITH OPEN BOTTOMS ONLY AT BOND BEAM LOCATIONS. DO NOT USE THROUGH-TYPE BLOCKS AT BOND BEAMS.
- DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS.
- ALL MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
- REINFORCED BOND BEAMS WITH (2)-#5 CONTINUOUS (TYP.)
- 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.
- REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS.



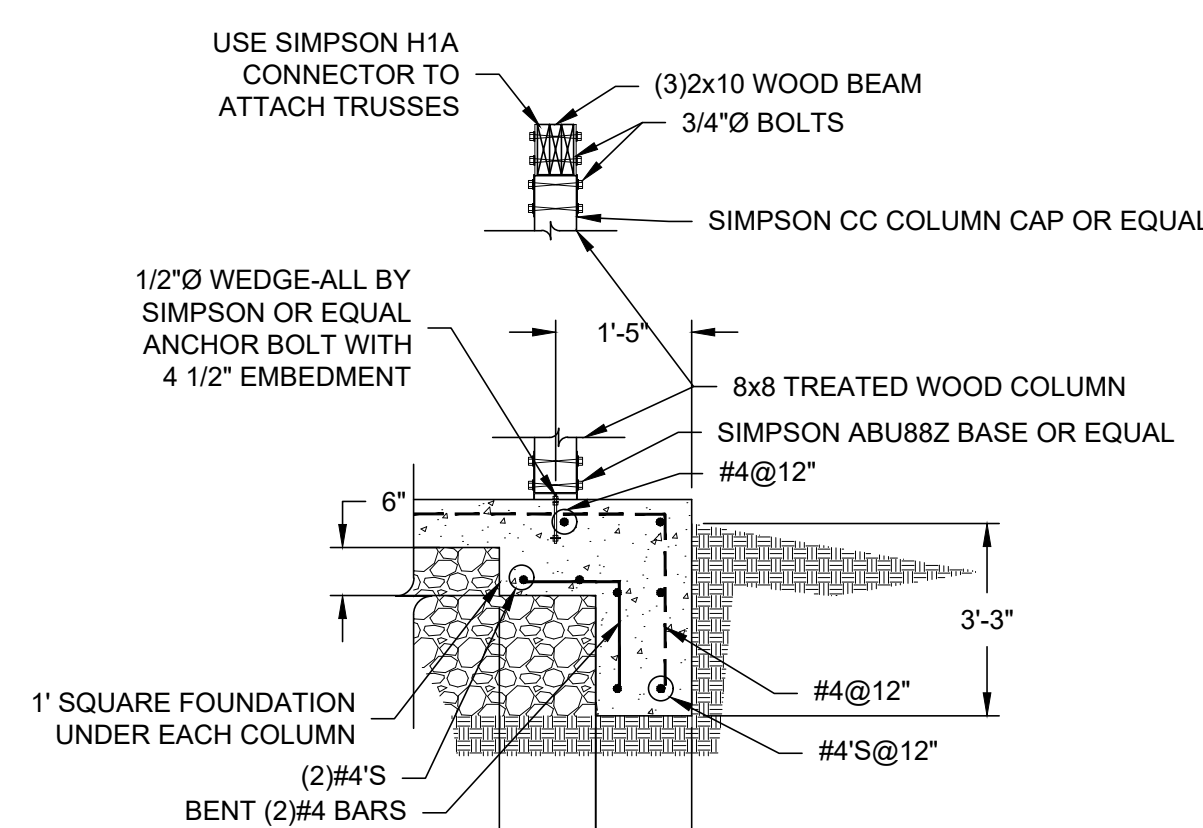
NOTE: GROUT SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS.  
**1** CMU WALL WALL DETAILS  
SCALE: SCALE: 3/4"=1'-0"



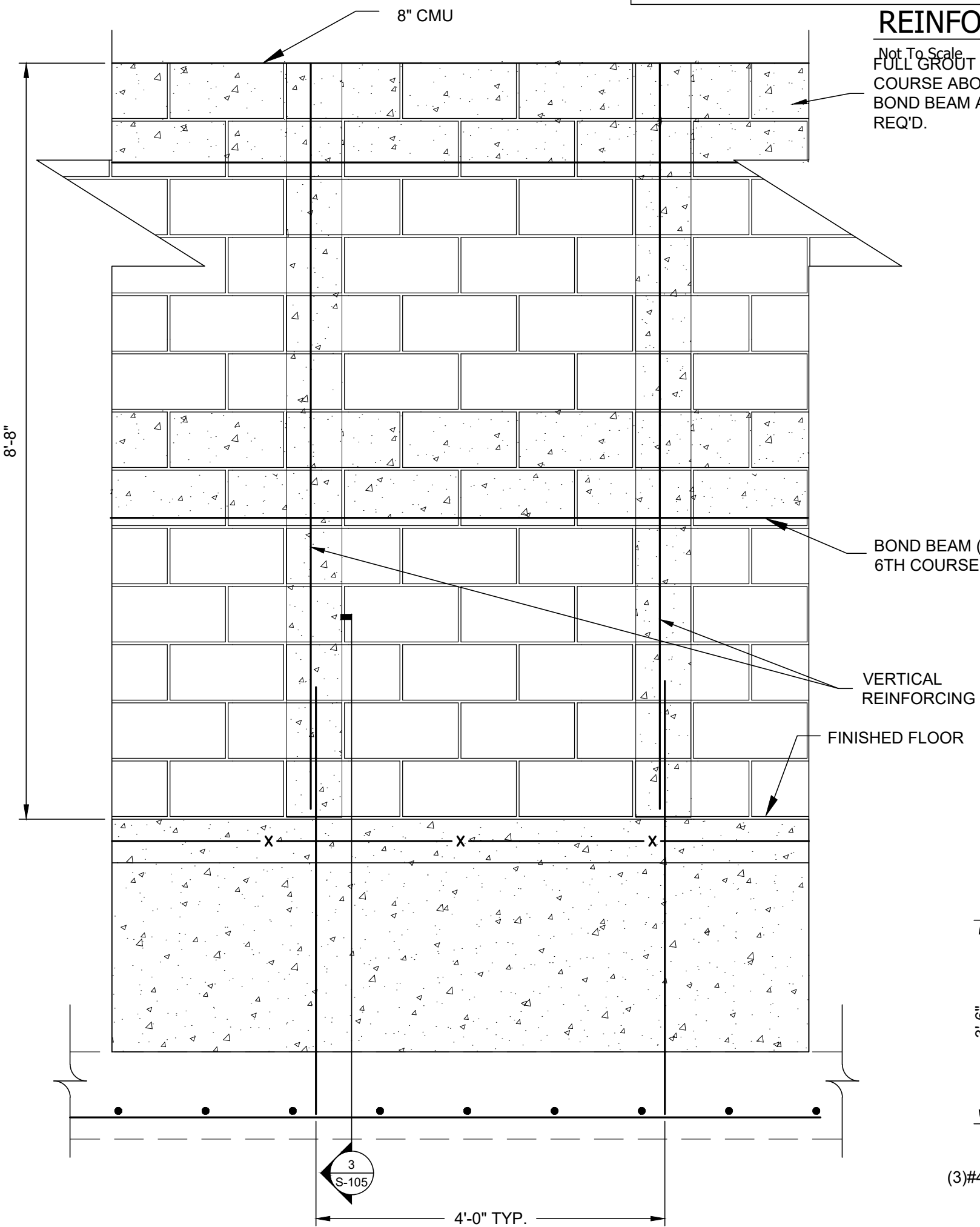
**2** BOND BEAM AT ROOF LEVEL



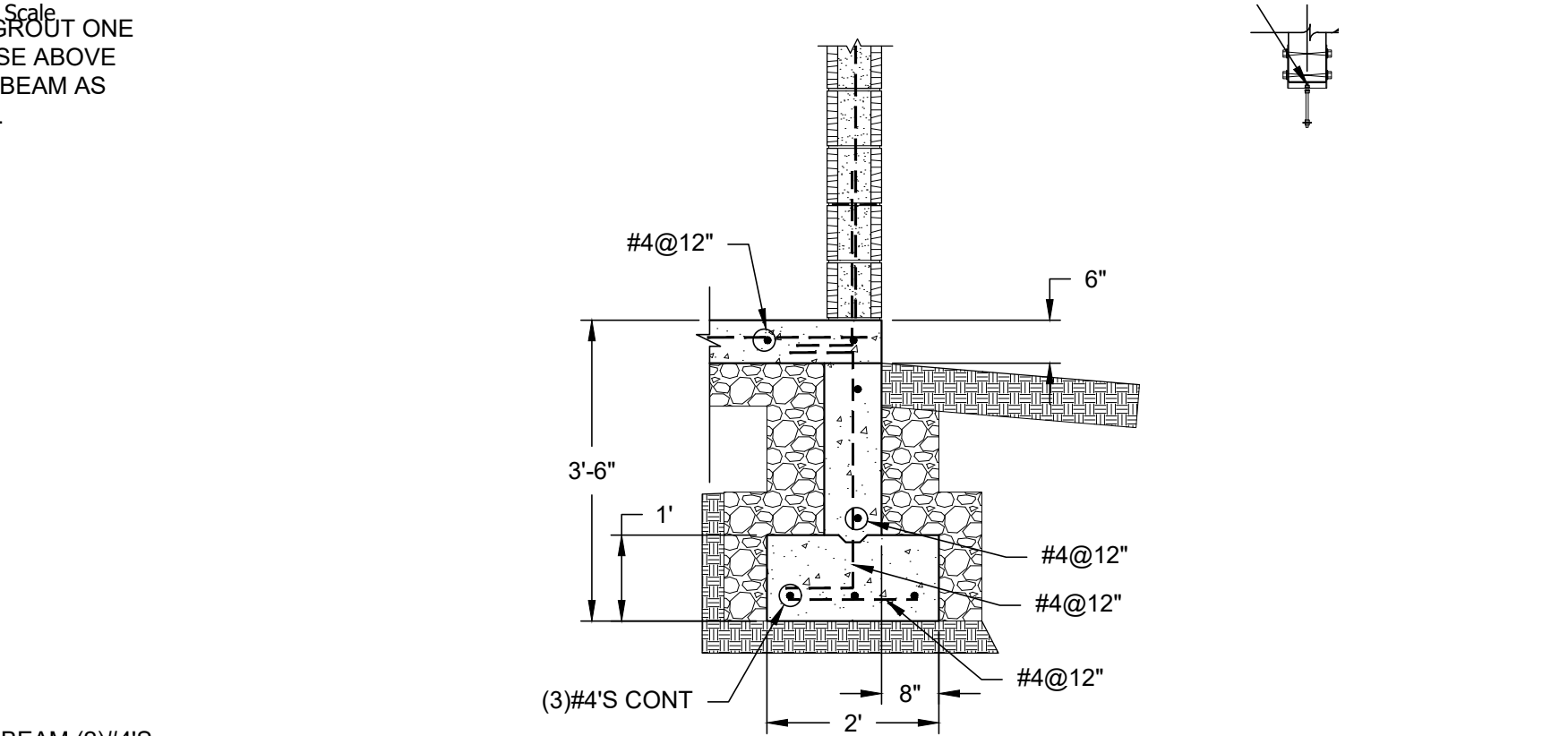
**3** CORNER DETAIL



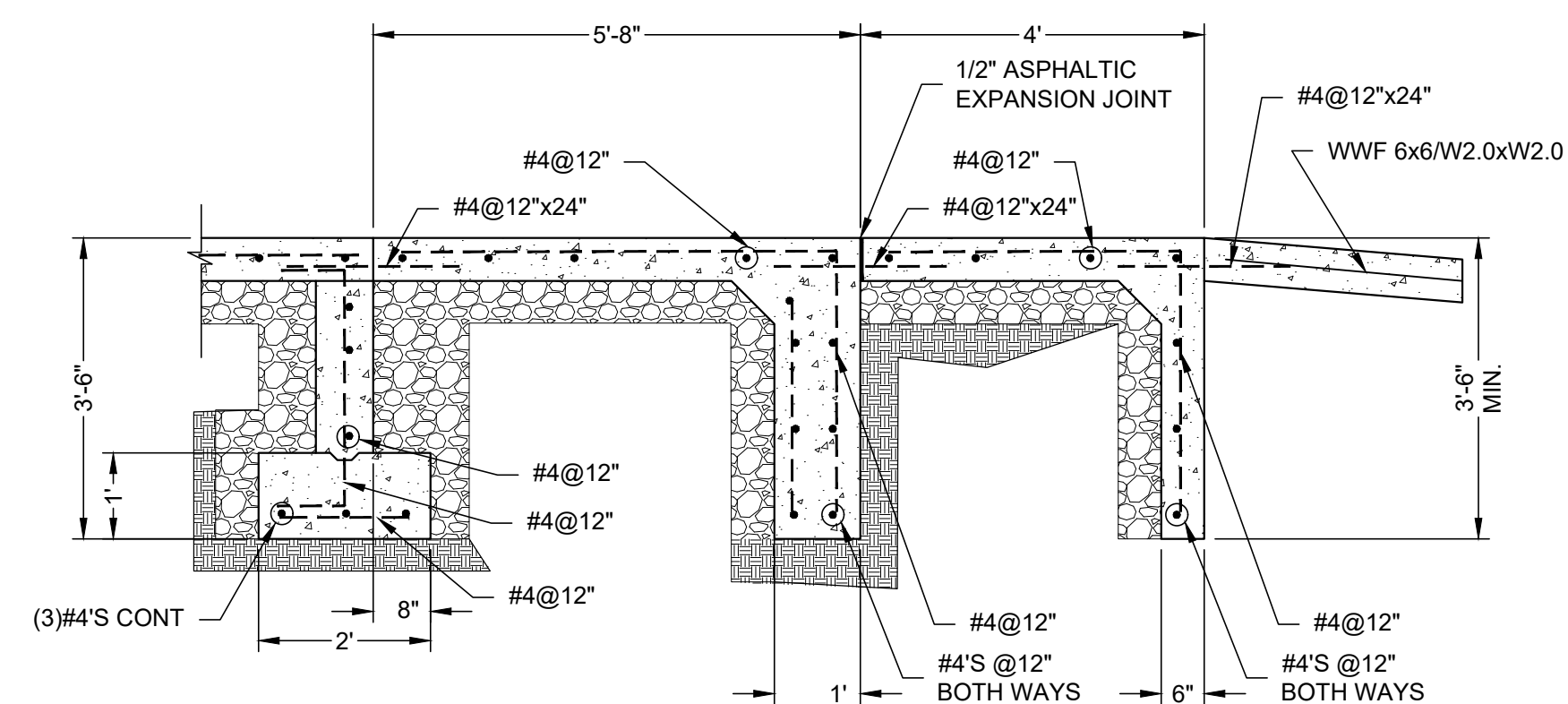
**5** SECTION  
SCALE: 1/2" = 1'-0"



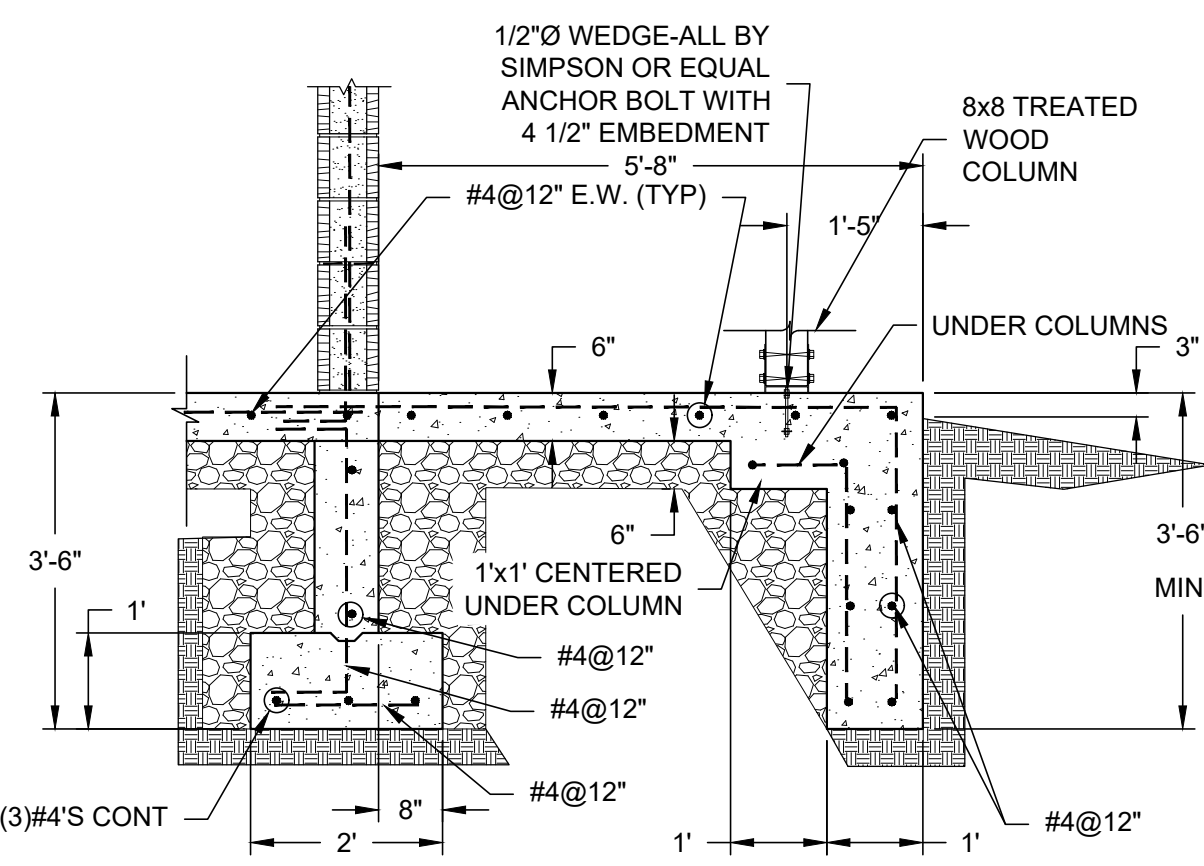
**2** CMU WALL ELEVATION  
SCALE: SCALE: 3/4"=1'-0"



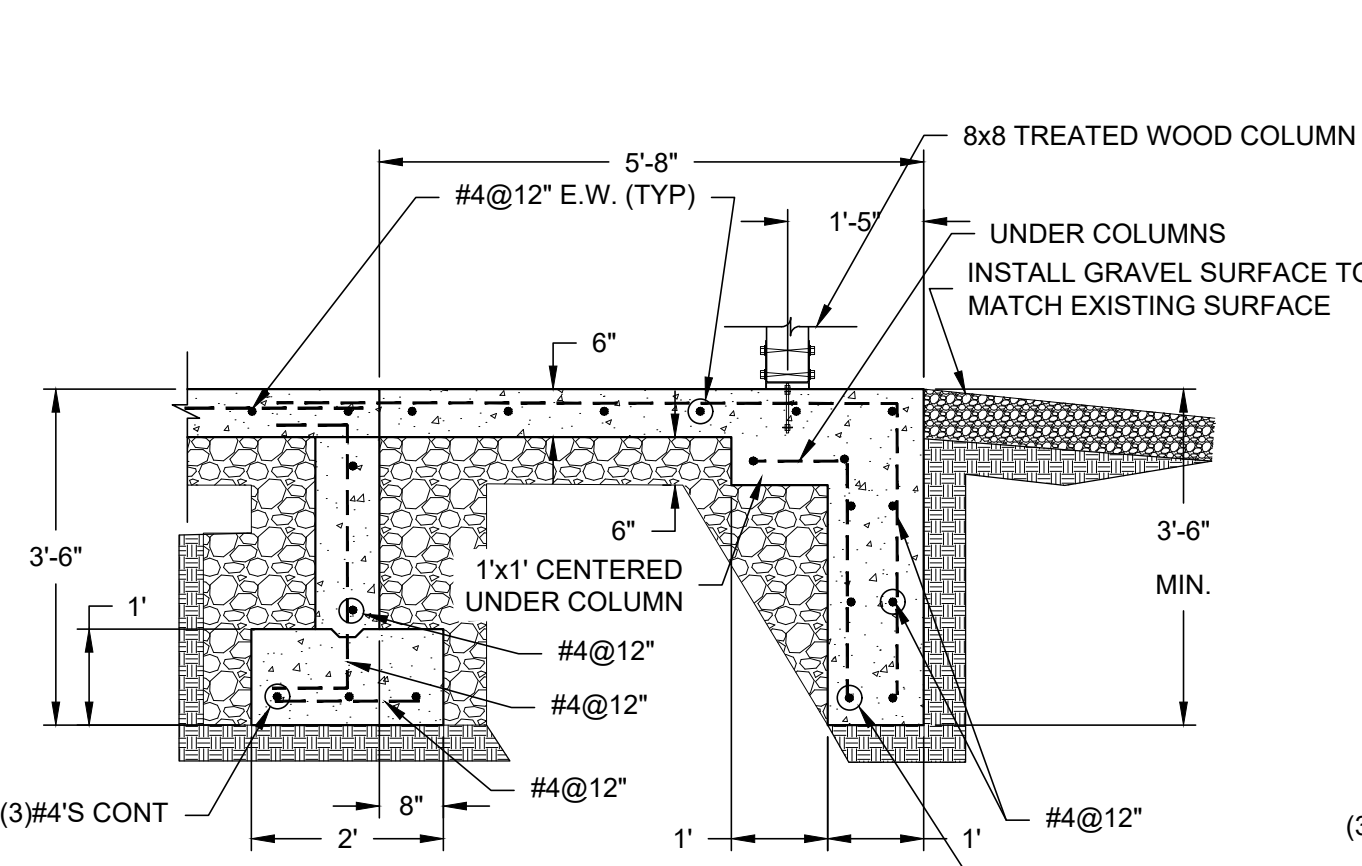
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SCALE: 1/2" = 1'-0"



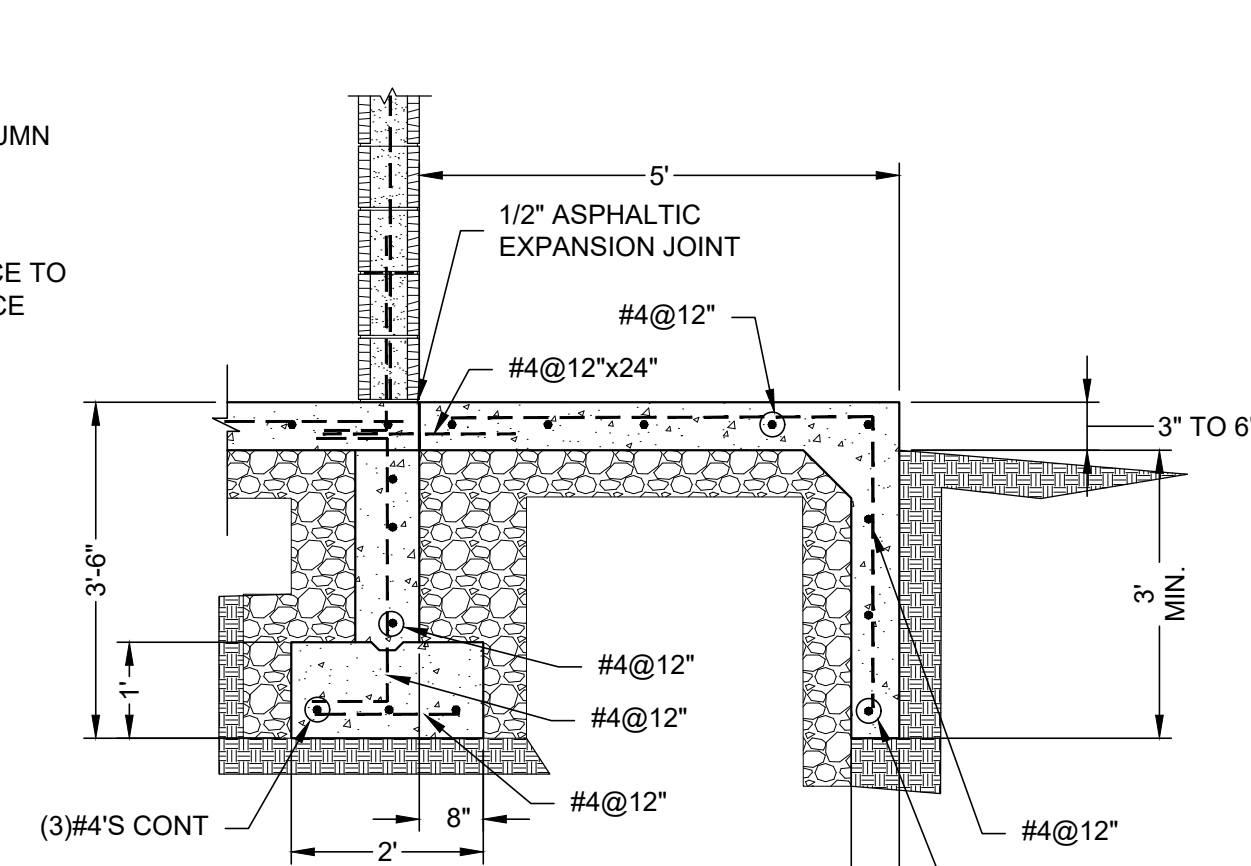
**9** SECTION  
SCALE: 1/2" = 1'-0"



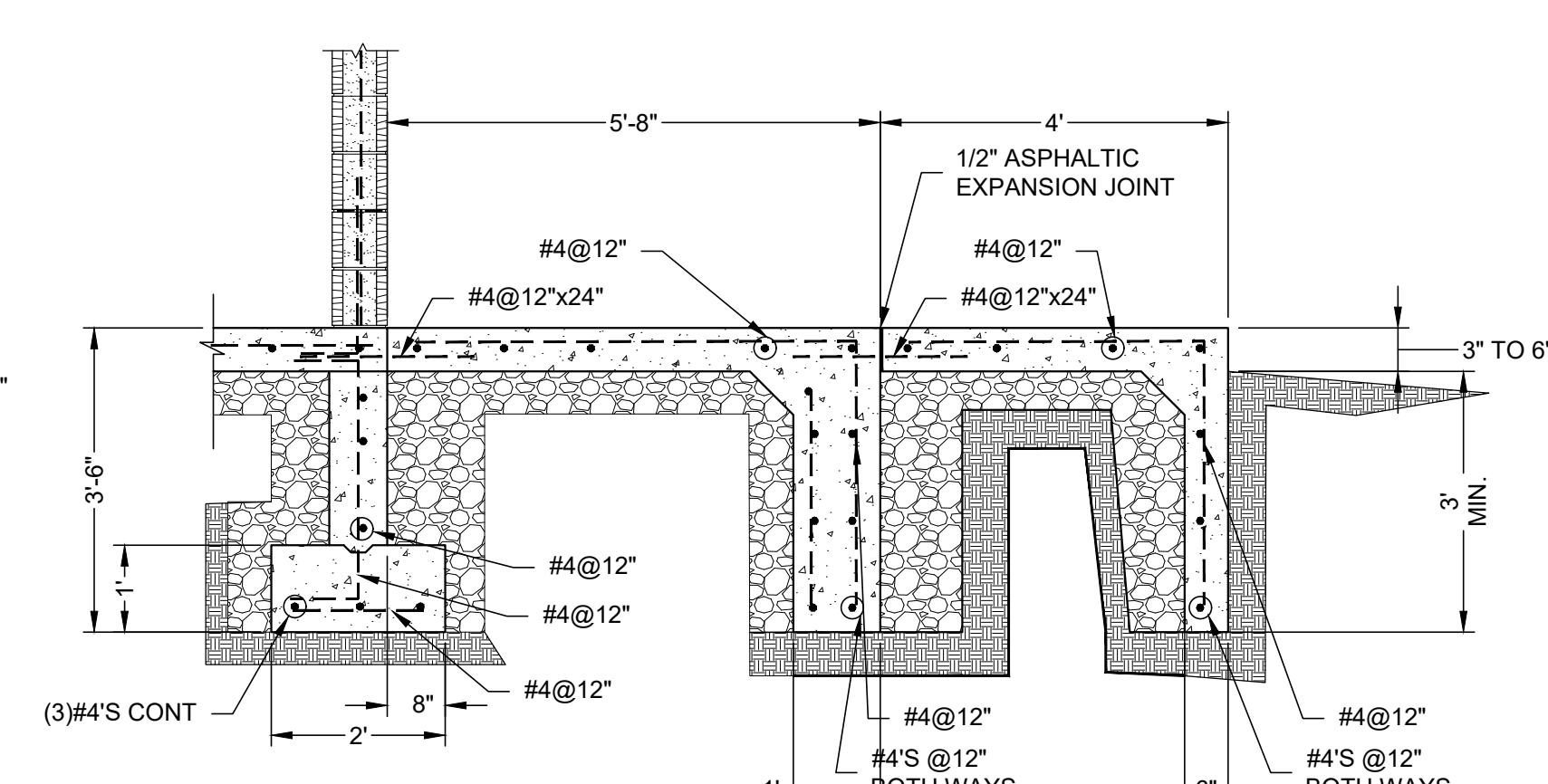
**4** SECTION  
SCALE: 1/2" = 1'-0"



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



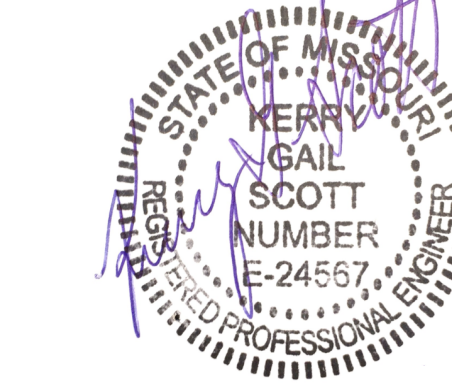
**7** SECTION  
SCALE: 1/2" = 1'-0"



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

(3)

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ISSUE DATE: 10/24/2025

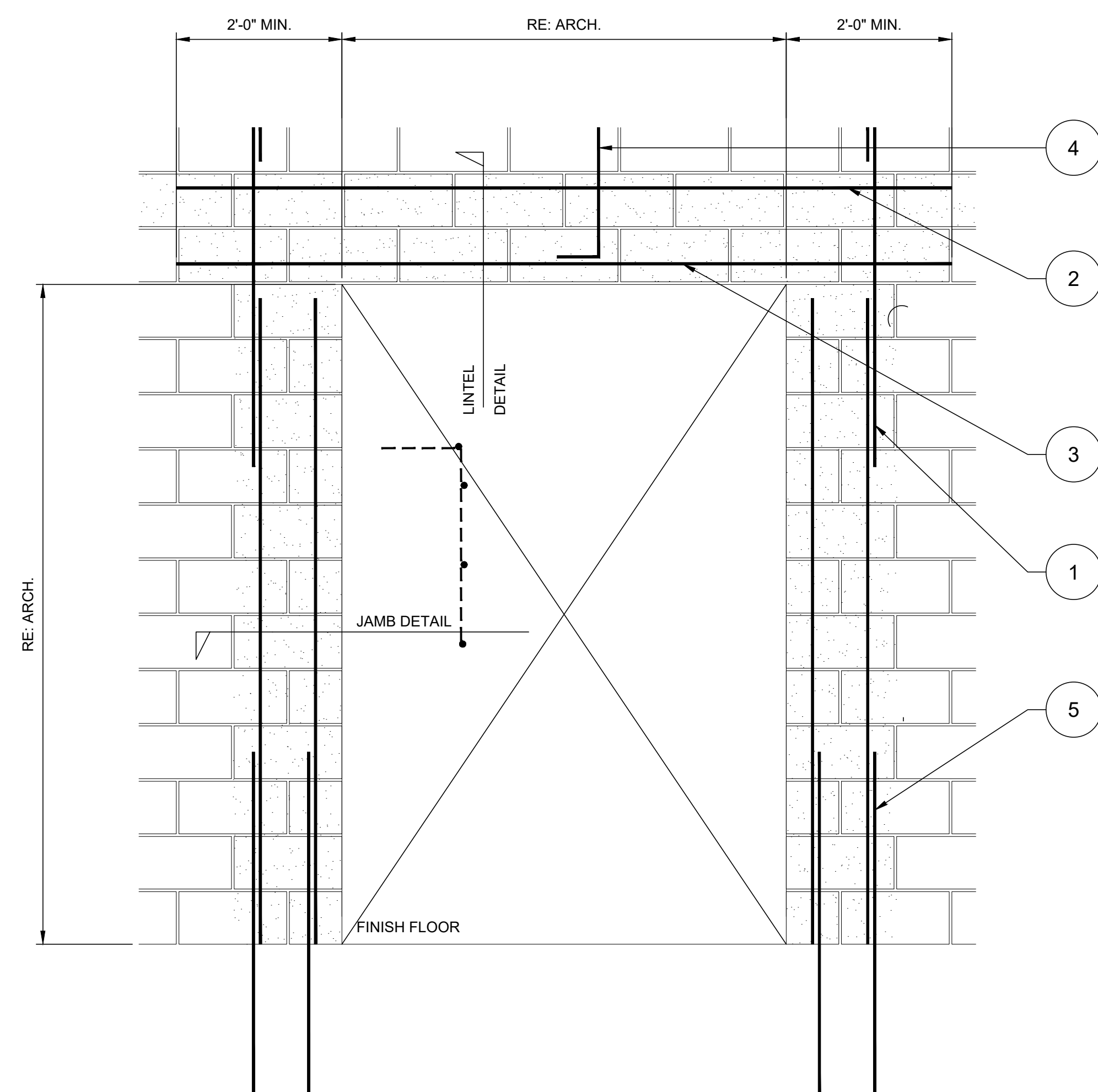
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DESIGNED BY: KGS

SHEET TITLE:  
**STRUCTURAL  
DETAILS**

SHEET NUMBER:

**S-106**

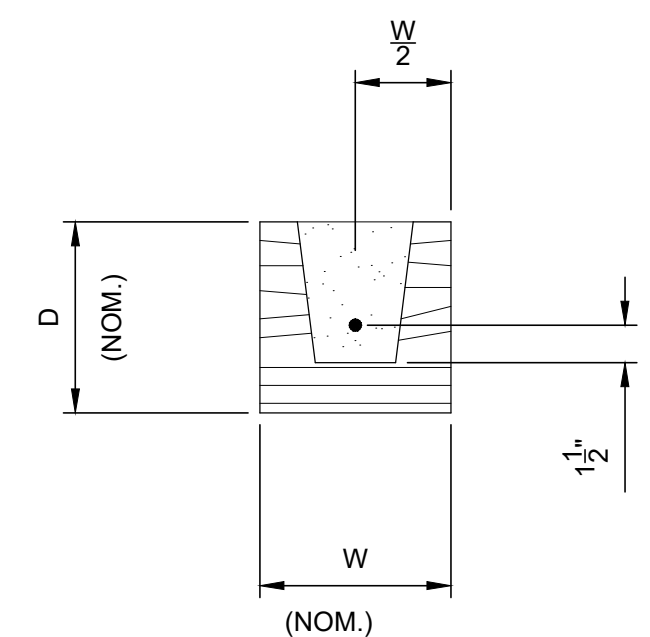
19 OF 38 SHEETS  
10/24/2025



NOTES:

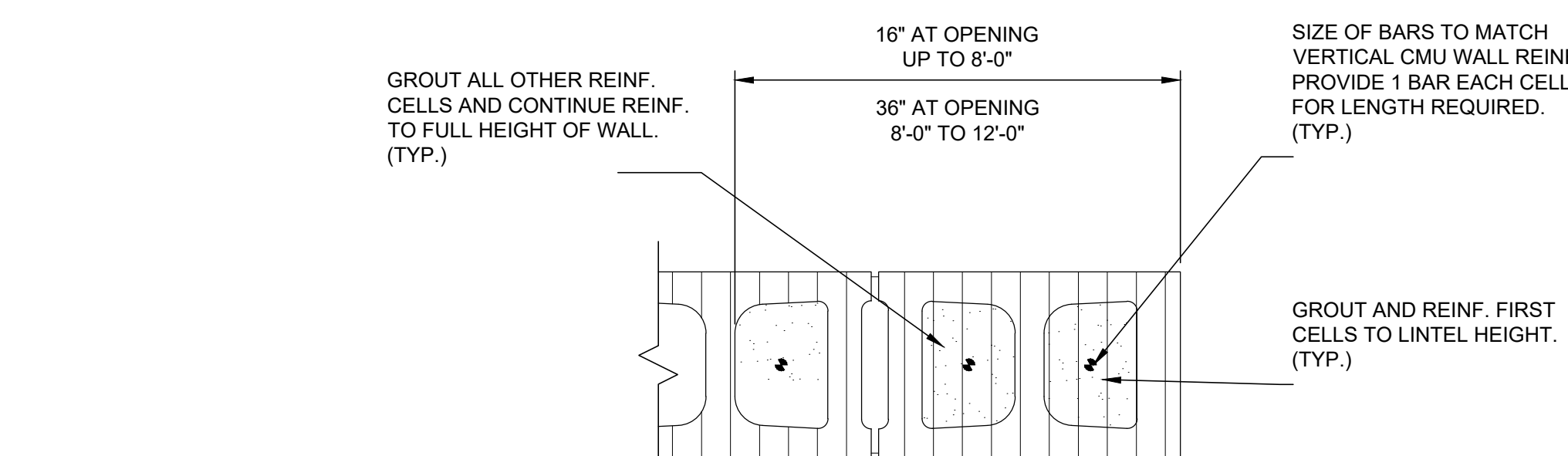
1. REFER TO CMU WALL REINFORCING DIAGRAM FOR SPLICES IN VERTICAL REINF.
2. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" (3'-0" FOR #7 BARS) BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINFORCING AND 1'-4" FOR HOOKED LINTEL REINFORCEMENT WITH STANDARD ACI HOOK.
3. USE LINTEL BLOCKS ONLY FOR BOTTOM 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** SHOWER HOUSE/BATHROOM PLAN  
SCALE: 1" = 10'

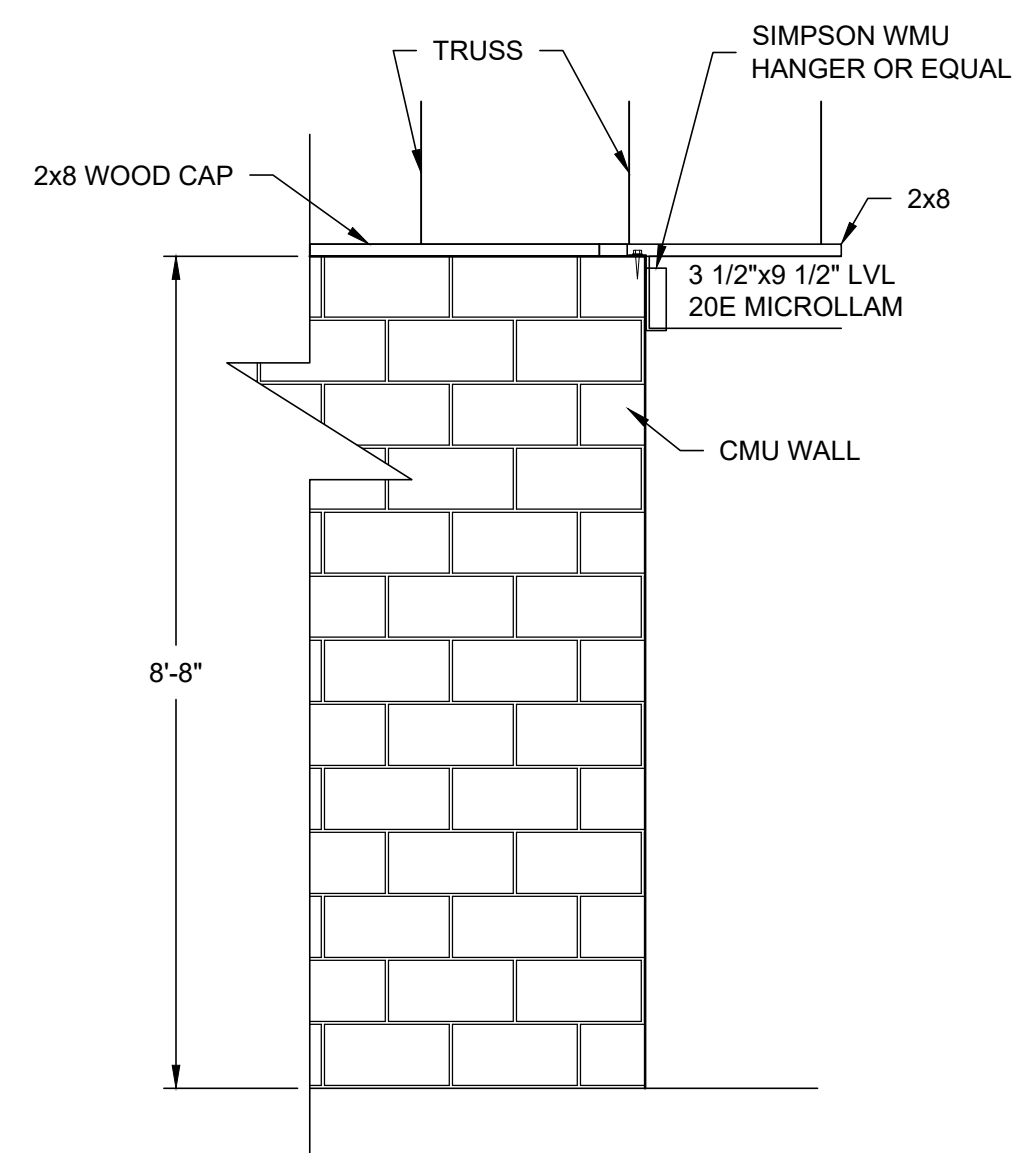


CMU LINTEL DETAIL

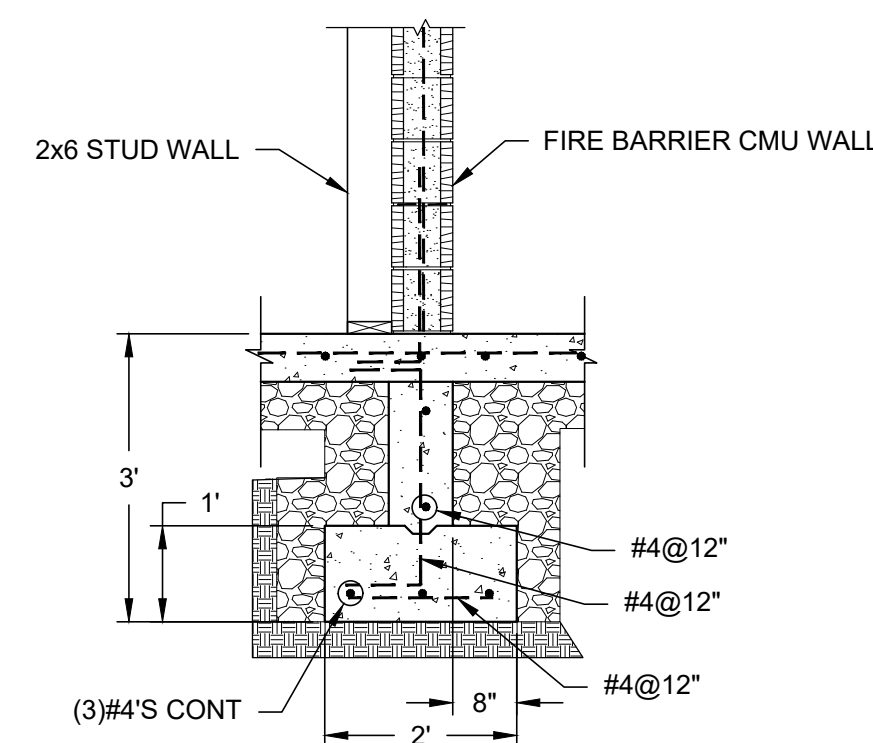
(ML) CMU LINTEL SCHEDULE					
WIDTH (W)	CLEAR SPAN	DEPTH (D)	BOTTOM REINF.	TOP REINF.	STIRRUPS AND SPACING
8"	UP TO 6'-0"	8"	#4	---	-----



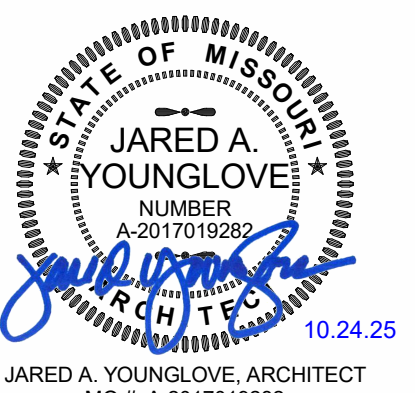
JAMB DETAIL



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



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



PROFESSIONAL SEAL



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER  
A-2017019282  
637 COLLEGE STREET  
SPRINGFIELD, MO 65806  
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FACILITIES MANAGEMENT, DESIGN AND  
CONSTRUCTION

Department of Natural Resources,  
State Parks

# CAMPGROUND SHOWER HOUSE REPLACEMENT

Wakanda State Park  
La Grange, MO

PROJECT NUMBER: X2531-01  
SITE NUMBER: 5116  
ASSET NUMBER: 7815116003

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

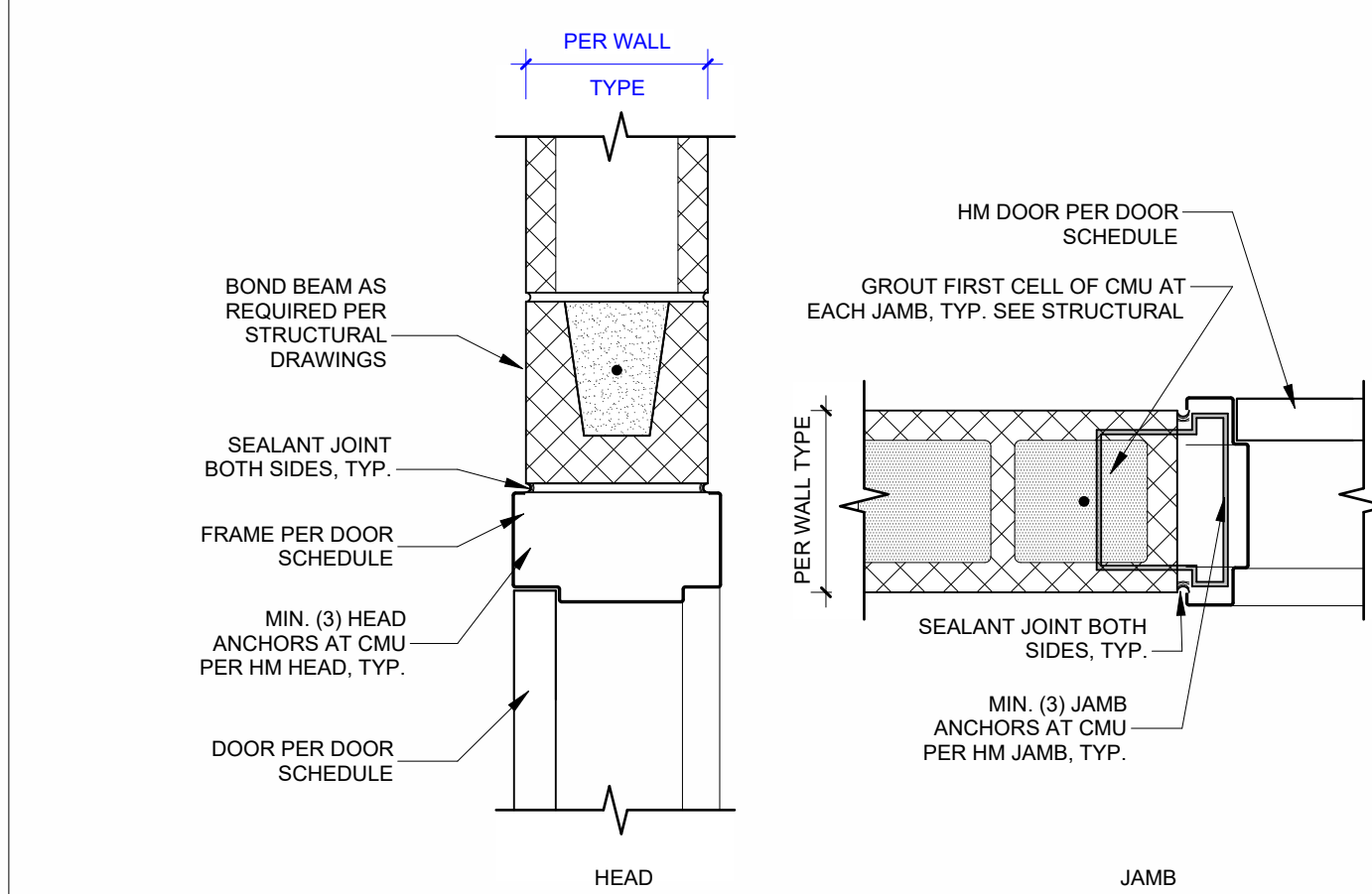
20 OF 38 SHEETS  
10/24/2025

## PARTITION TYPE GENERAL NOTES

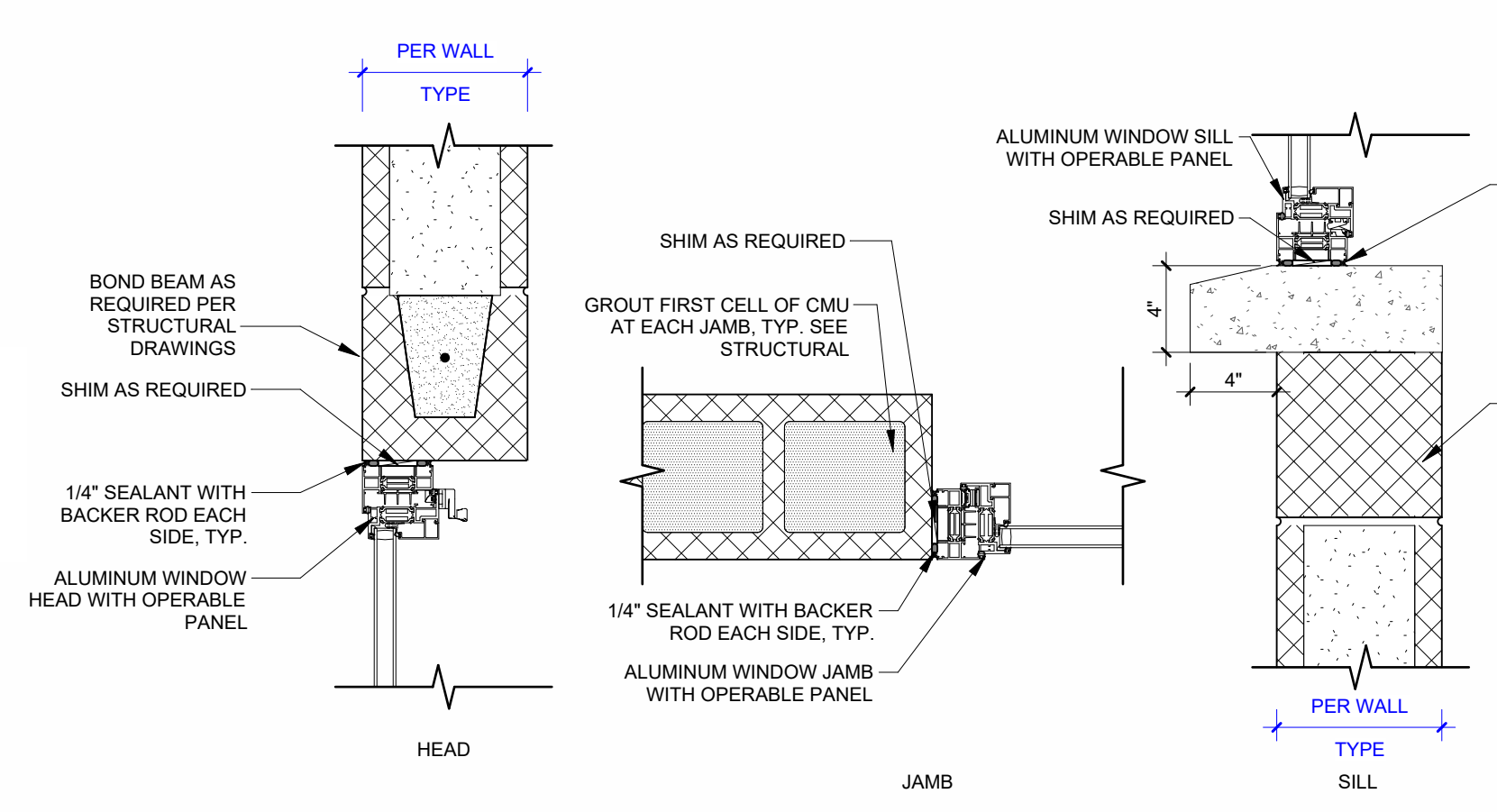
- EXTERIOR WALL CONSTRUCTION IS DESCRIBED IN WALL SECTIONS. INTERIOR WALL TYPES ARE DESCRIBED BY THEIR DENOTED WALL TYPE TAGS.
- ANY WALL CONSTRUCTION NOT NOTED WITH A PARTITION TYPE WALL TAG SHALL BE CLARIFIED FOR INTERPRETATION BY THE ARCHITECT PRIOR TO BIDDING.
- WALL TYPE INDICATES PRIMARY WALL ASSEMBLY ONLY. OVERLAP 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 +/- 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.

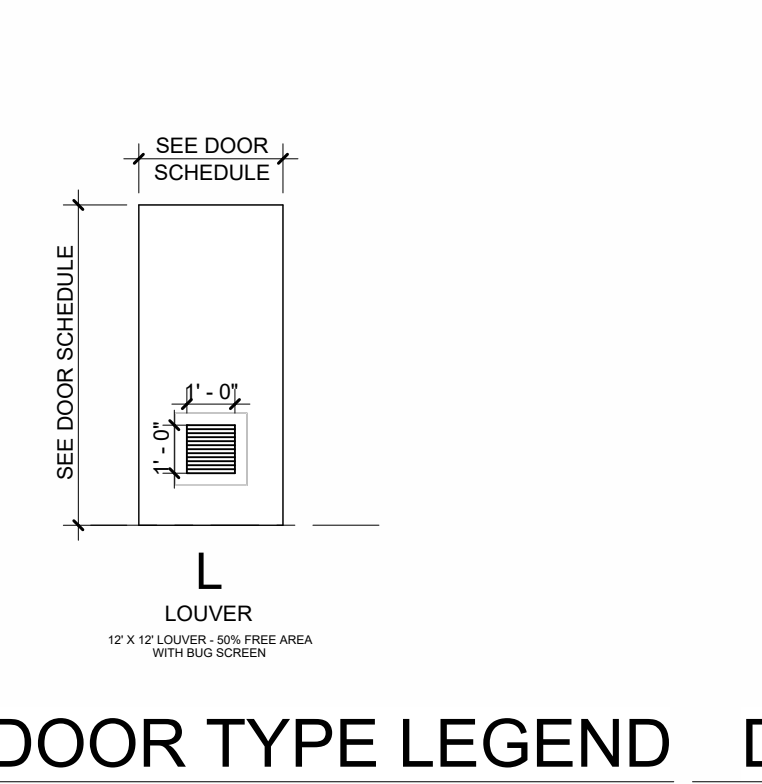


**2** HM DOOR FRAME @ CMU  
SCALE 1 1/2" = 1'-0"

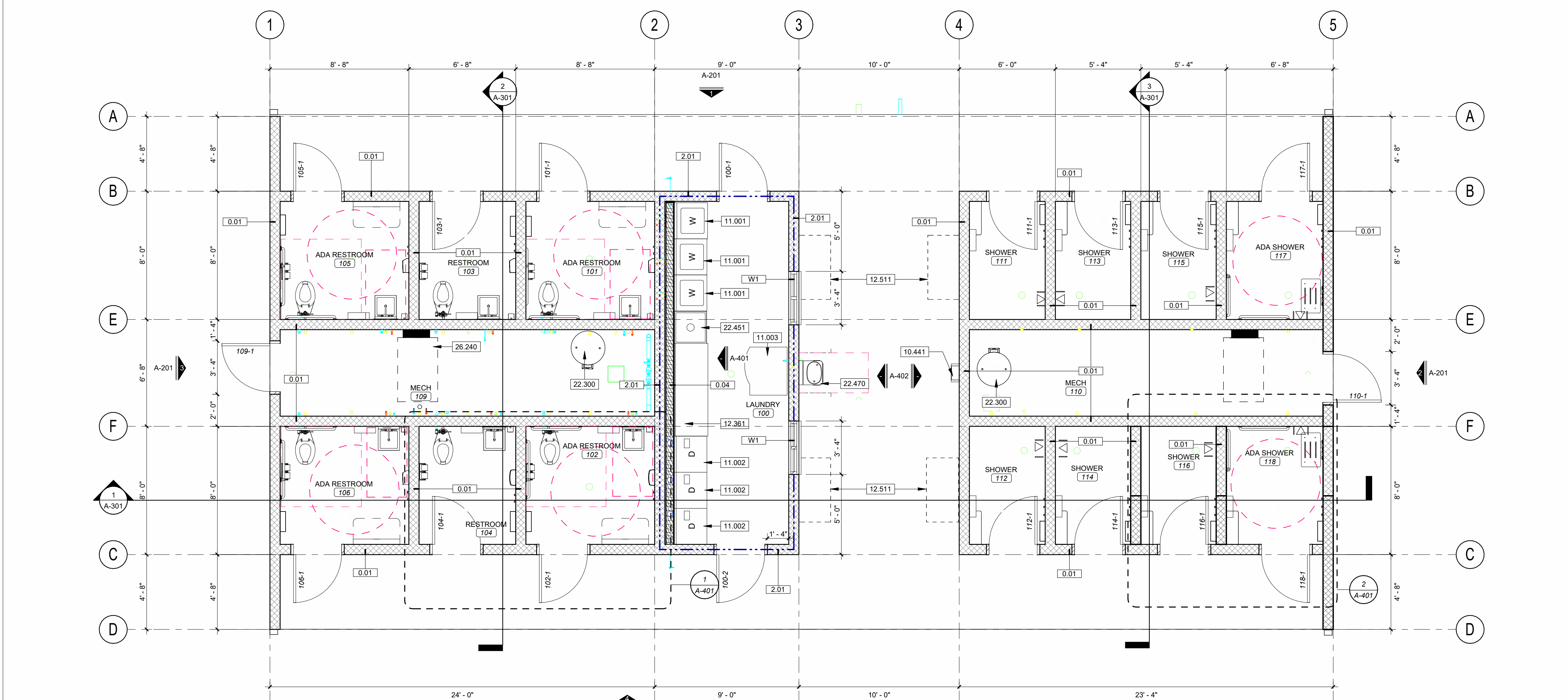
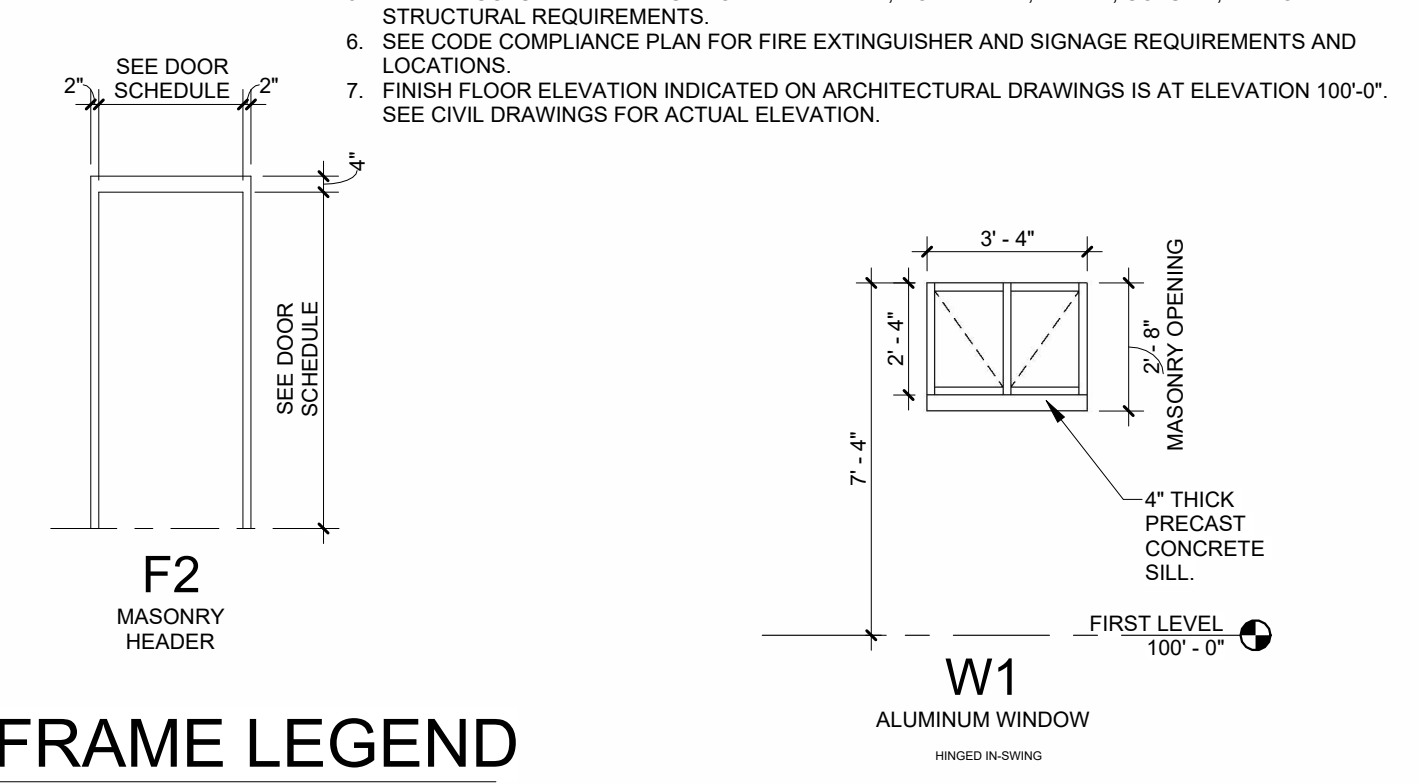


**3** ALUMINUM WINDOW @ CMU  
SCALE 1 1/2" = 1'-0"

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	



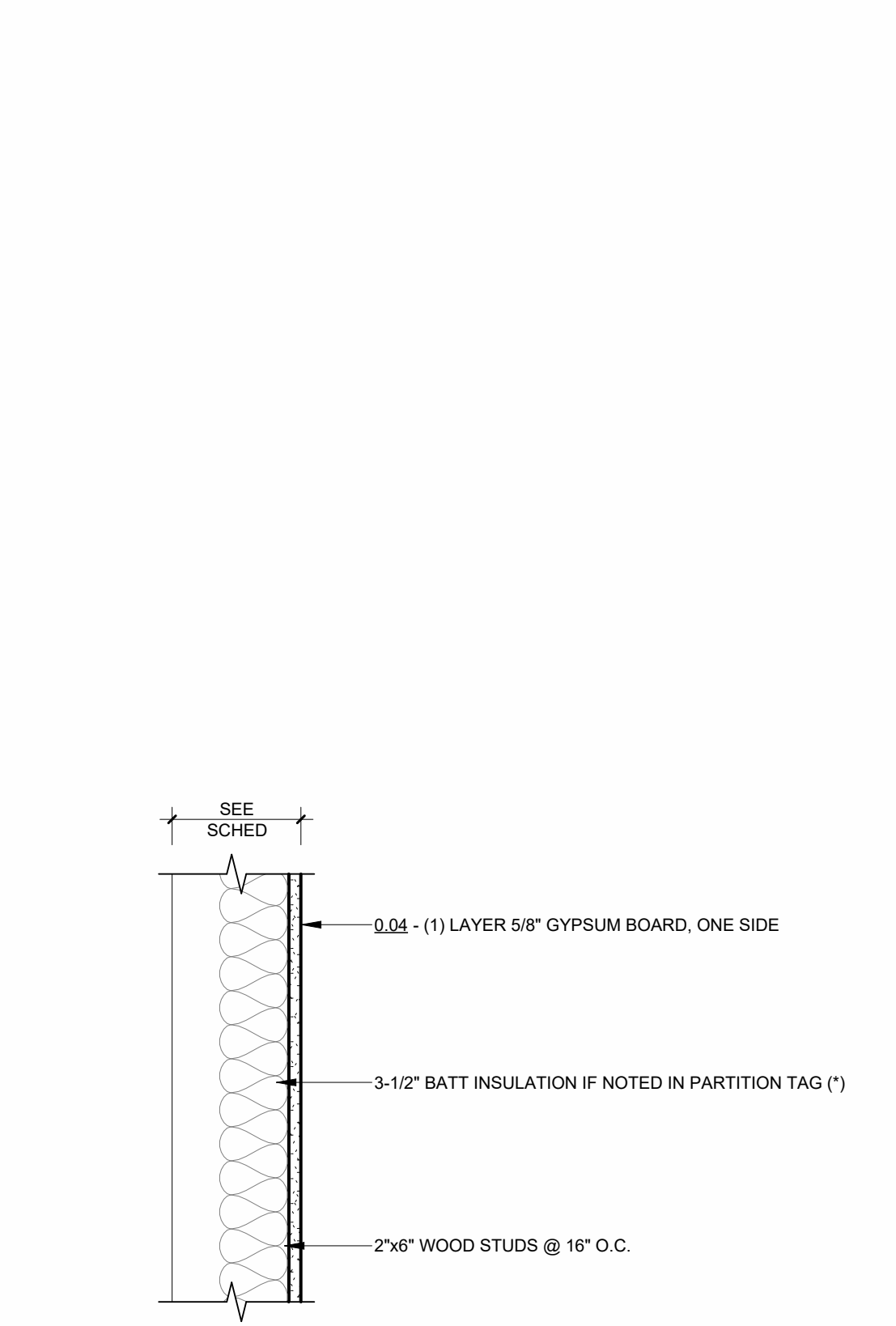
DOOR TYPE LEGEND DOOR FRAME LEGEND



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

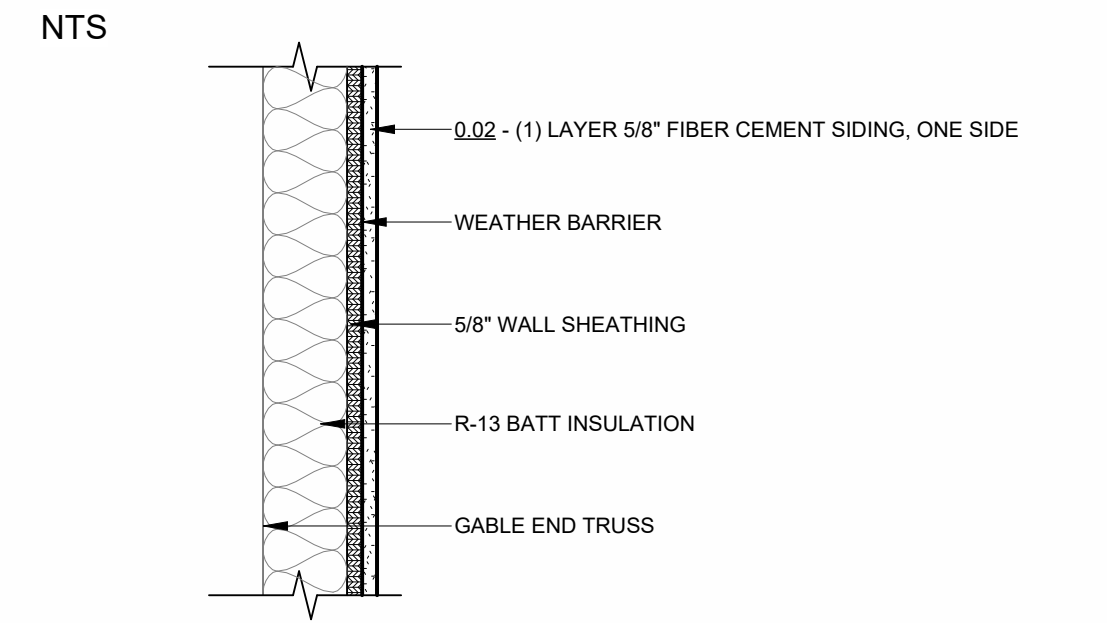
KEYNOTE LEGEND	
10.441	SURFACE MOUNTED FIRE EXTINGUISHER. SEE SECTION 10.4400 FIRE PROTECTION SPECIALTIES.
11.001	WASHER. OFOI
11.002	DRYER. OFOI
11.003	VENDING MACHINE. OFOI
12.361	PLASTIC LAMINATE COUNTERTOP. PROVIDE PLASTIC LAMINATE FINISH OVER 3/4" 45# PARTICLE BOARD. SEE SECTION 12.3600 COUNTERTOPS.
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



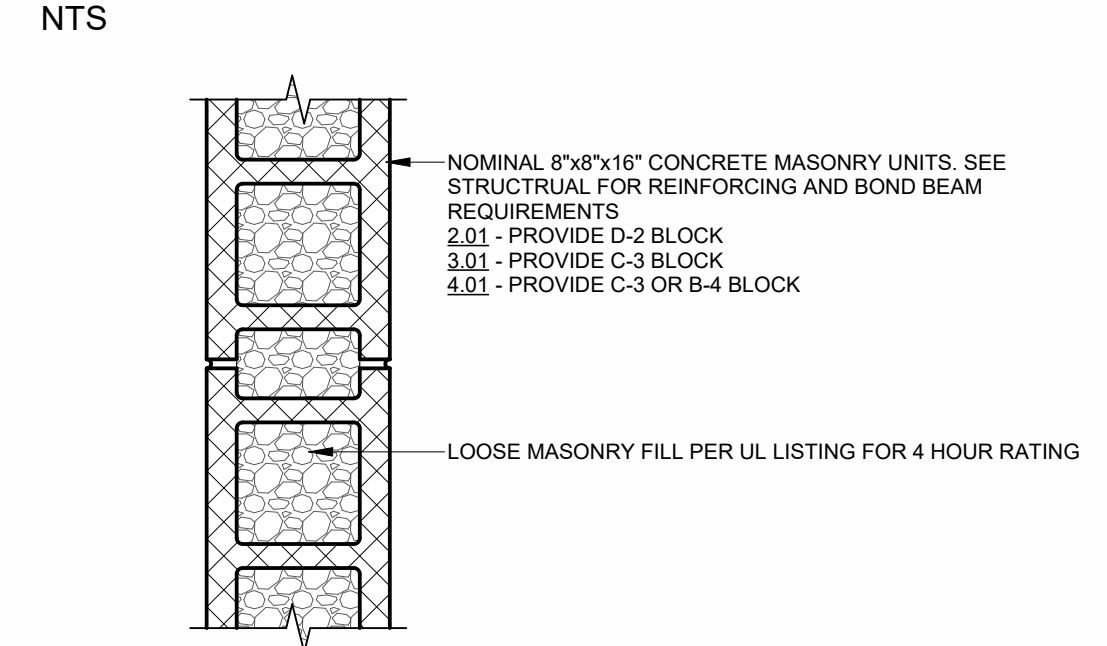
PTN. TYPE	RATING	WIDTH	NOTES
0.04	-	6 5/8"	-

### INTERIOR PARTITION #.04



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

### INTERIOR PARTITION #.02



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

**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.

STATE OF MISSOURI  
MIKE KEHOE  
GOVERNOR



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SPRINGFIELD, MO 65806  
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Department of Natural Resources,  
State Parks

**CAMPGROUND  
SHOWER HOUSE  
REPLACEMENT**

Wakonda State Park  
La Grange, MO

PROJECT NUMBER: X2531-01  
SITE NUMBER: 5116  
ASSET NUMBER: 7815116003

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

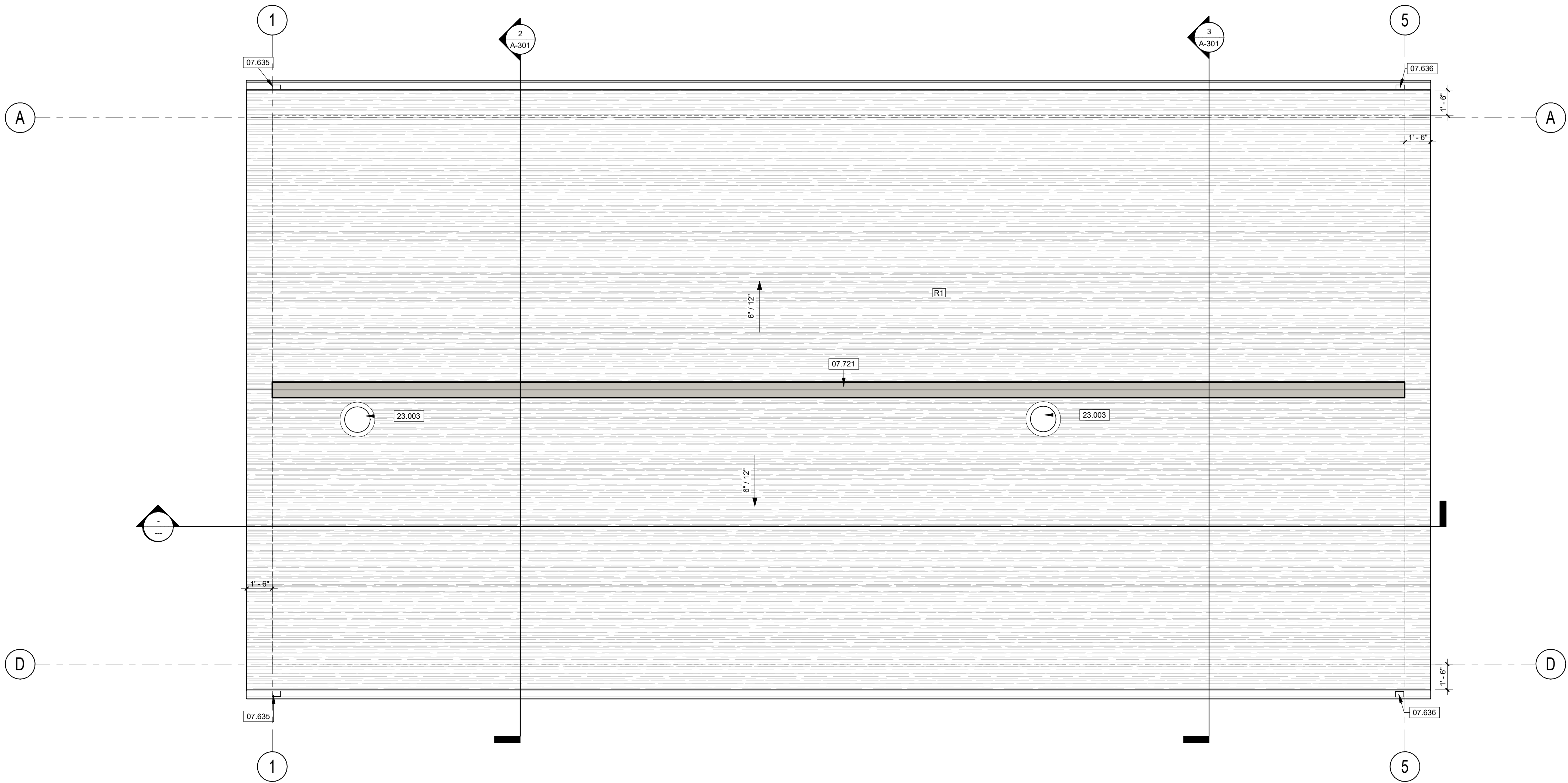
PROJECT ARCHITECT: JY  
DRAWN BY: AM, LY, LH, TW  
CHECKED BY: JY, JS

SHEET TITLE:  
**ROOF PLAN**

SHEET NUMBER:

**A-102**

21 OF 38 SHEETS  
10/24/2025



**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**

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

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

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Department of Natural Resources,  
State Parks

# CAMPGROUND SHOWER HOUSE REPLACEMENT

Wakonda State Park  
La Grange, MO

PROJECT NUMBER: X2531-01  
SITE NUMBER: 5116  
ASSET NUMBER: 7815116003

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

22 OF 38 SHEETS  
10/24/2025

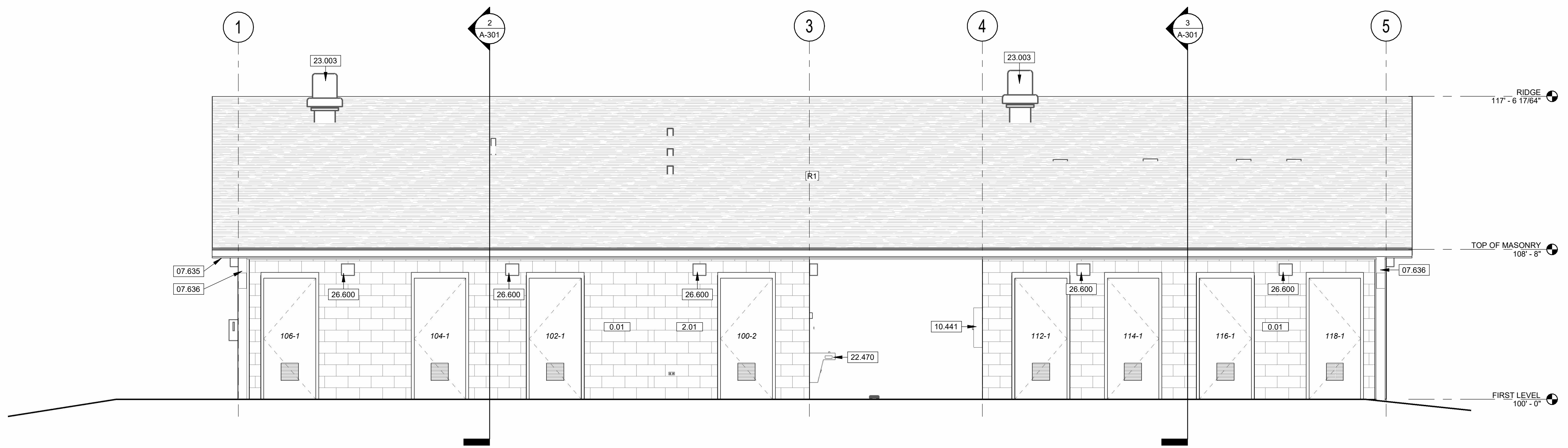
KEYNOTE LEGEND	
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22.470	DRINKING FOUNTAIN. SEE MEP. SEE DIVISION 22.0000 SPECIFICATIONS.
23.003	HVAC EXHAUST FAN. SEE DIVISION 23.0000 SPECIFICATIONS.
26.004	ELECTRICAL EQUIPMENT. SEE MEP.
26.600	EXTERIOR LIGHTING. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.

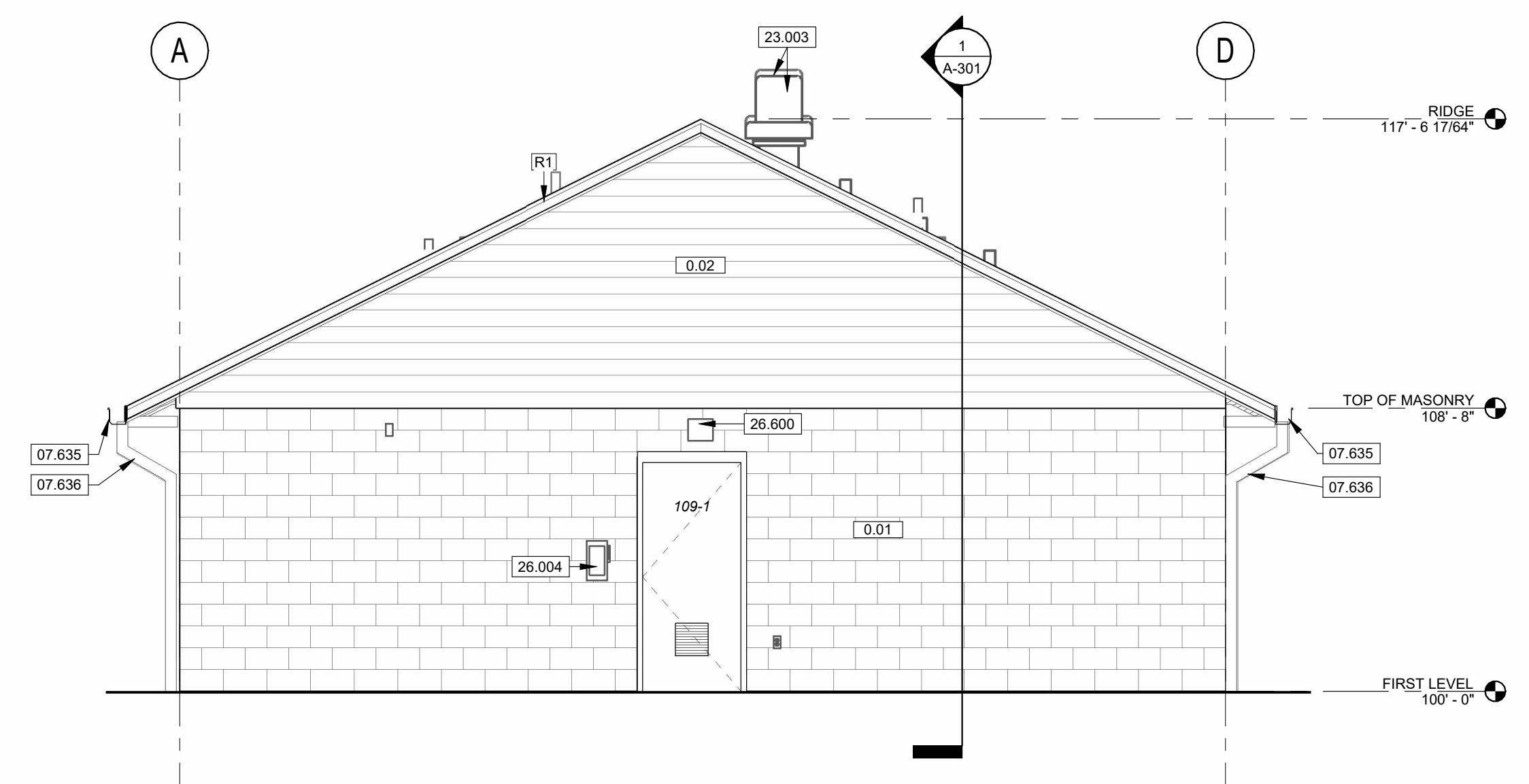
ROOF SCHEDULE	
R1	#30 ASPHALT SHINGLE OVER FELT WITH 48" WIDE ICE AND WATER SHIELD AT ALL ROOF EDGES, RIDGES, VALLEYS, AND ALL VERTICAL WALL TO ROOF INTERSECTIONS OVER ROOF SHEATHING OVER TRUSSES.

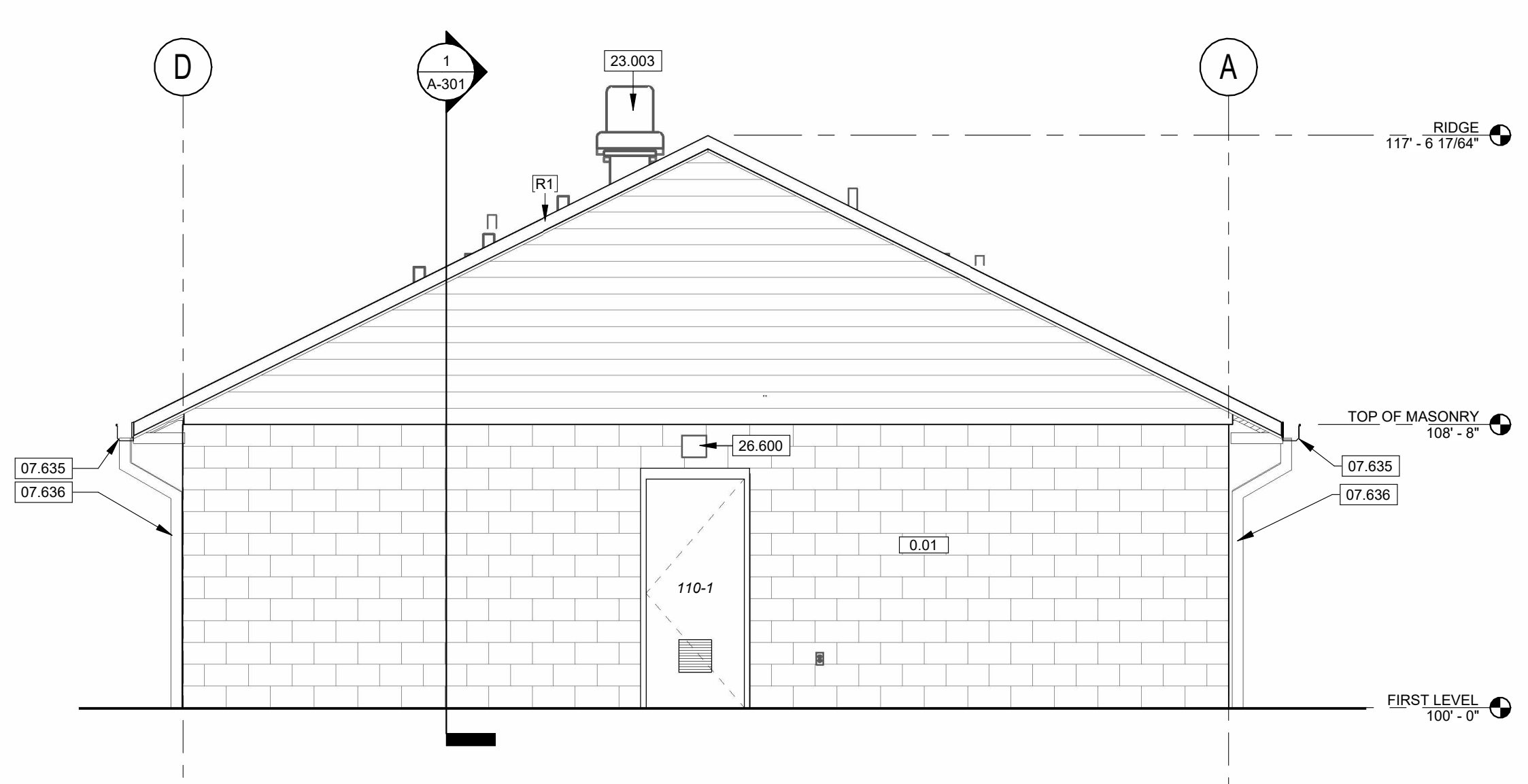
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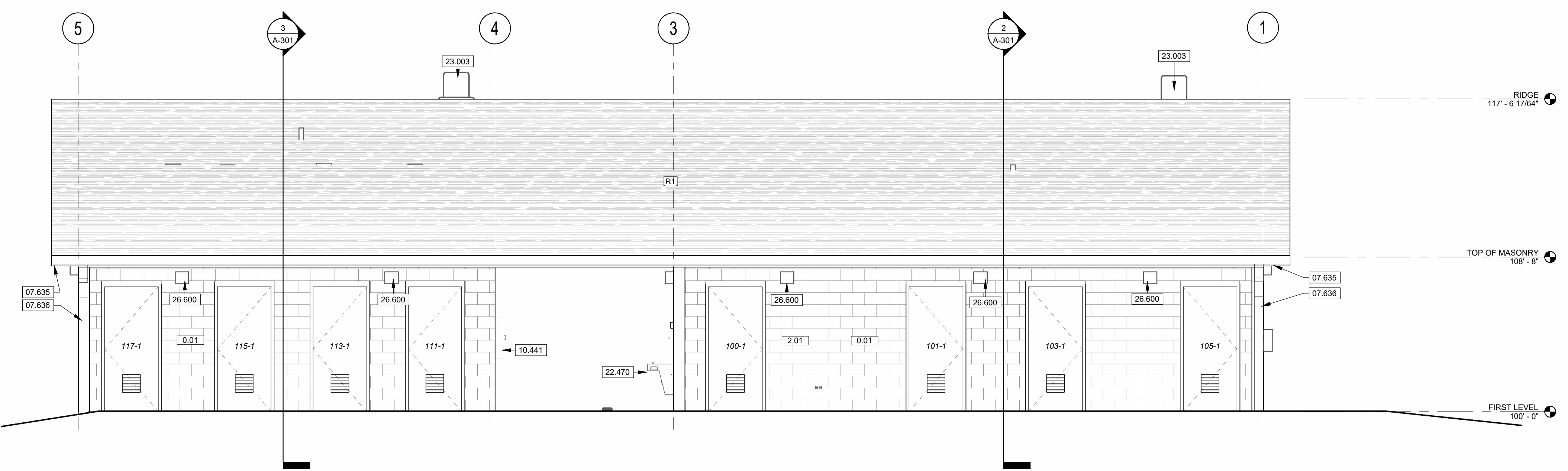
**4** SOUTH-EAST EXTERIOR ELEVATION  
SCALE 1/4" = 1'-0"



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



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



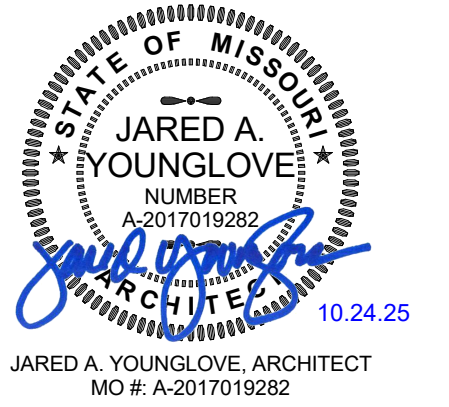
**1** NORTH-WEST EXTERIOR ELEVATION  
SCALE 1/4" = 1'-0"

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### 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 8 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



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ISSUE DATE: 10/24/2025

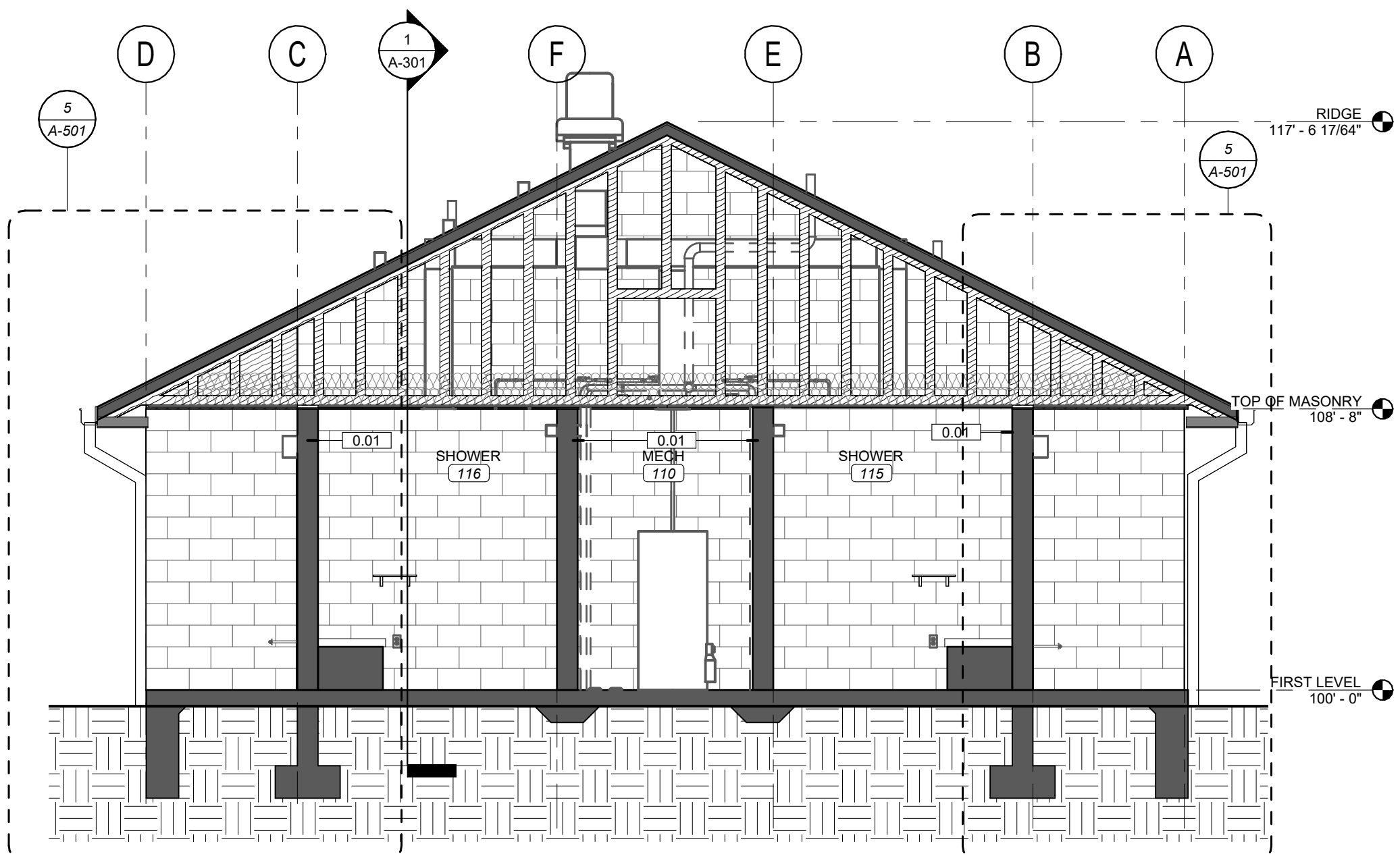
PROJECT ARCHITECT: JY  
DRAWN BY: AM, LY, LH, TW  
CHECKED BY: JY, JS

SHEET TITLE:  
**BUILDING  
SECTIONS**

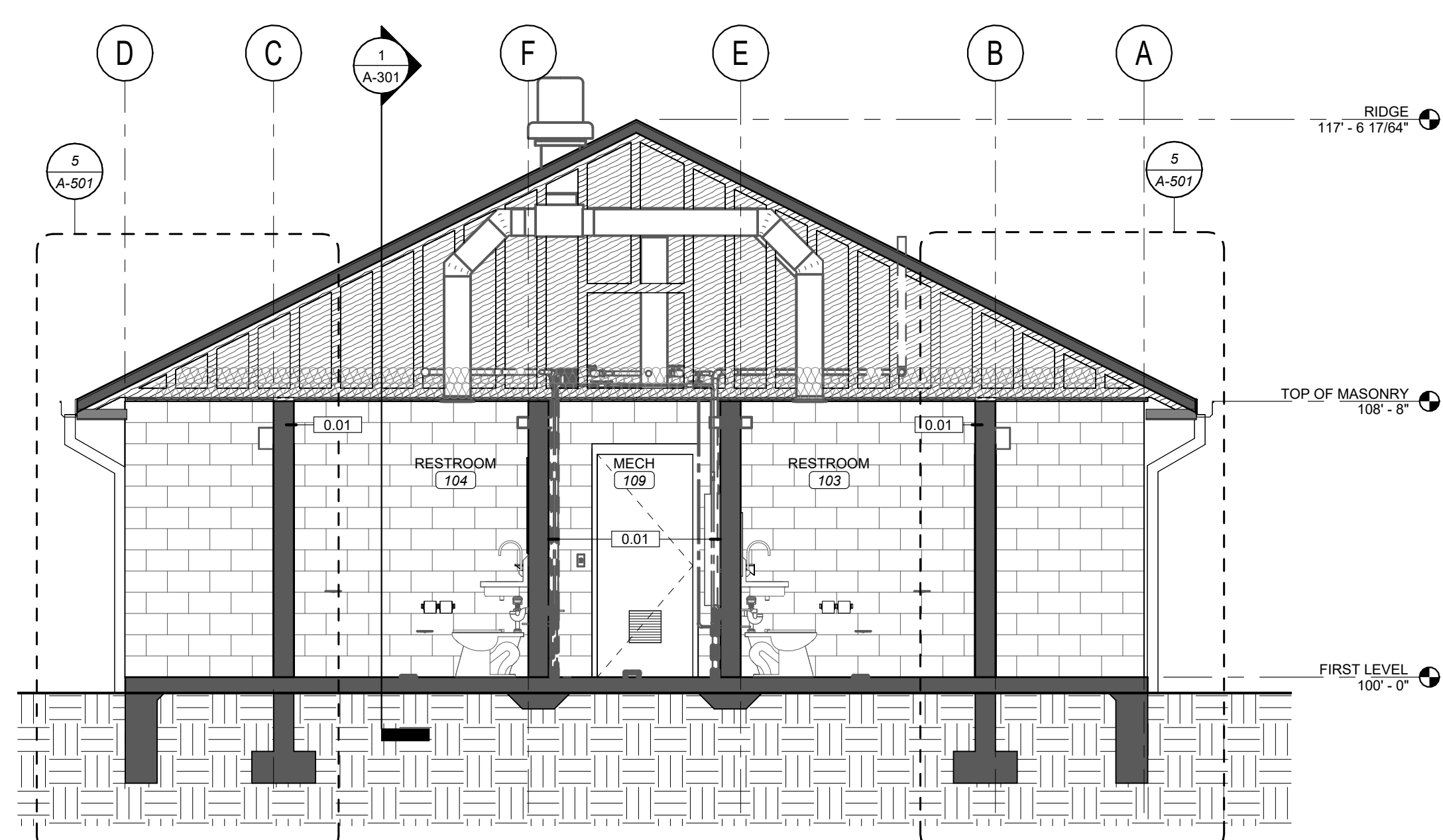
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**A-301**

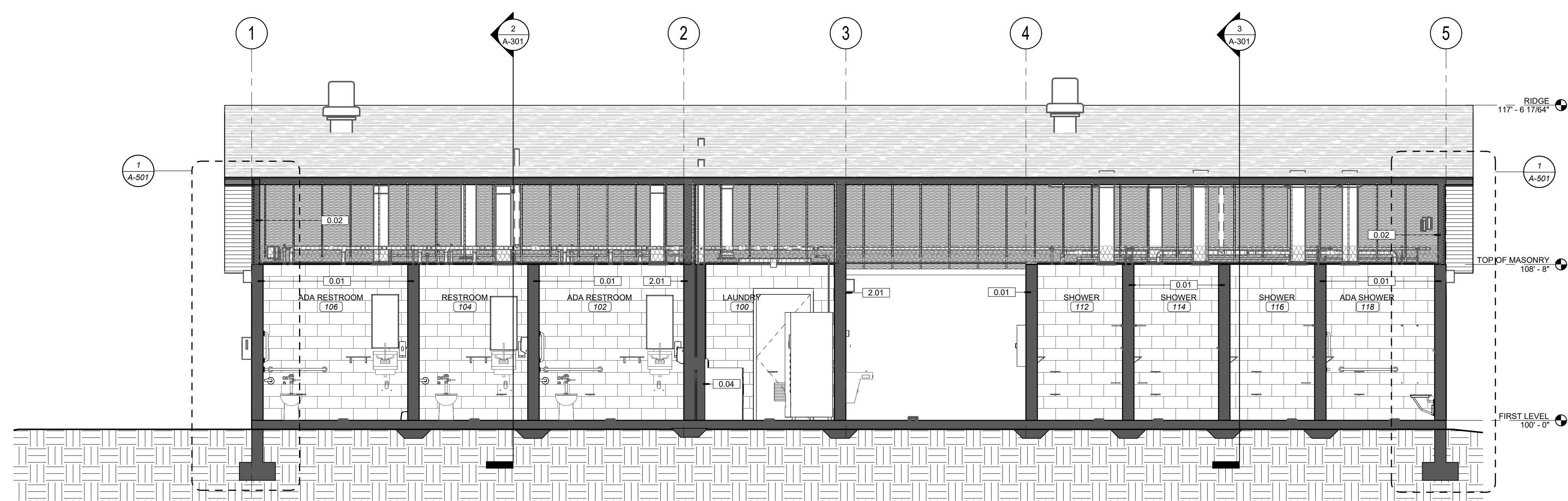
23 OF 38 SHEETS  
10/24/2025



**3** SHOWERS CROSS SECTION  
SCALE 1/4" = 1'-0"



**2** RESTROOMS CROSS SECTION  
SCALE 1/4" = 1'-0"



**1** LONGITUDINAL SECTION  
SCALE 1/4" = 1'-0"

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OFFICE OF ADMINISTRATION DIVISION OF  
FACILITIES MANAGEMENT, DESIGN AND  
CONSTRUCTION

Department of Natural Resources,  
State Parks

# CAMPGROUND SHOWER HOUSE REPLACEMENT

Wakonda State Park  
La Grange, MO

PROJECT NUMBER: X2531-01  
SITE NUMBER: 5116  
ASSET NUMBER: 7815116003

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

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

SHEET TITLE:  
**INTERIOR  
ELEVATIONS**

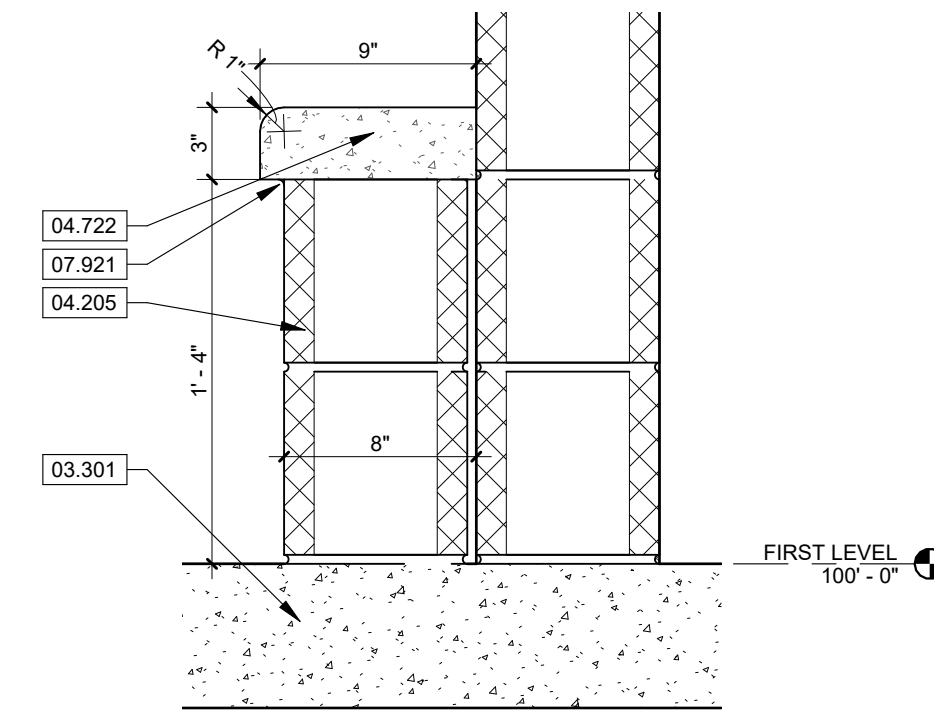
SHEET NUMBER:

# A-402

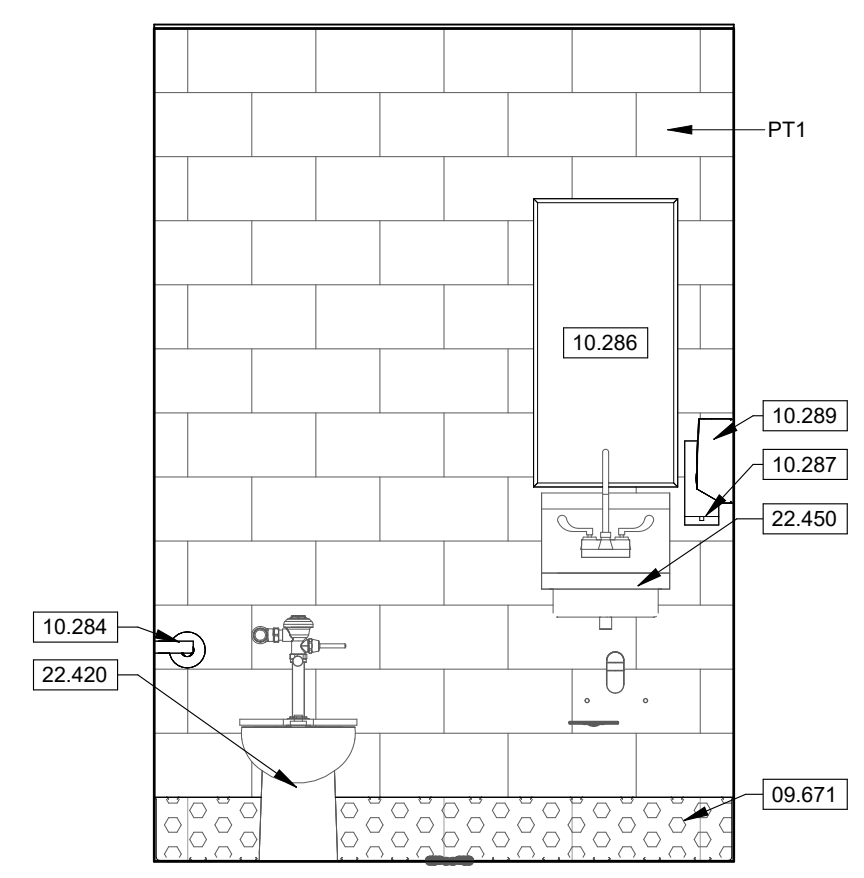
25 OF 38 SHEETS  
10/24/2025

## KEYNOTE LEGEND

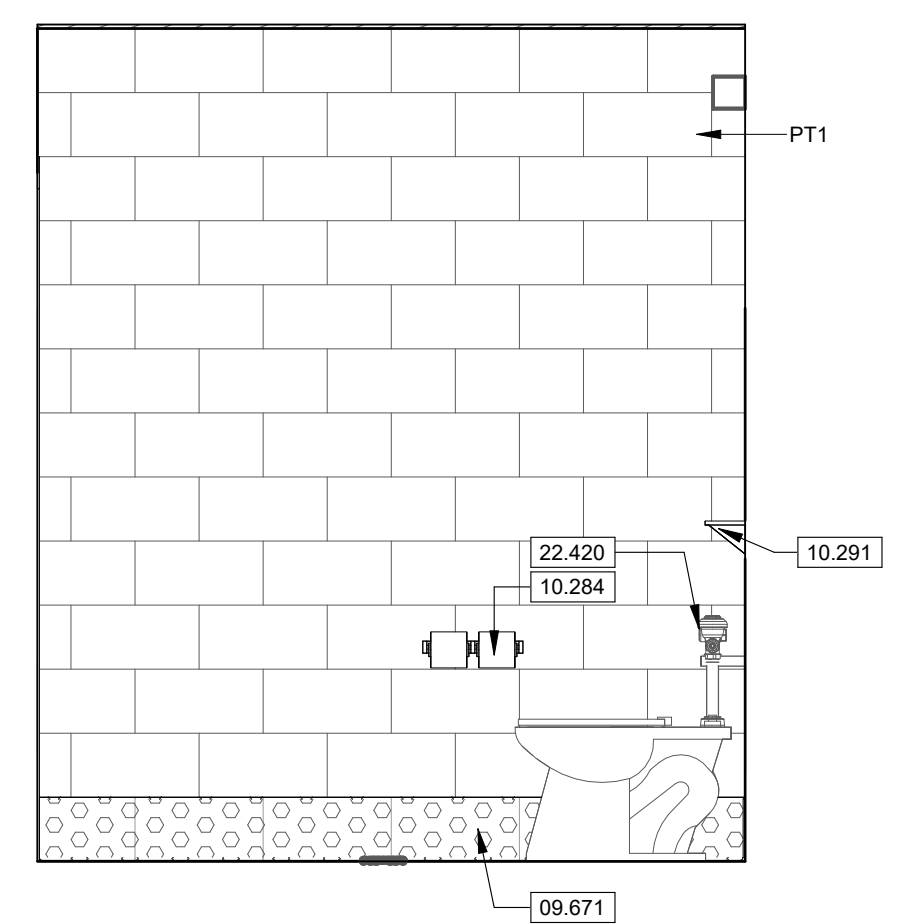
03.301	REINFORCED CONCRETE SLAB. SEE STRUCTURAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.451	4" THICK PRECAST CONCRETE SILL. SEE SECTION 03.4500 PRECAST ARCHITECTURAL CONCRETE.
04.001	CMU BLOCK BENCH WITH ARCHITECTURAL CAST STONE TOP.
04.205	BOND BEAM. SEE STRUCTURAL. SEE SECTION 04.2000 UNIT 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 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	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.



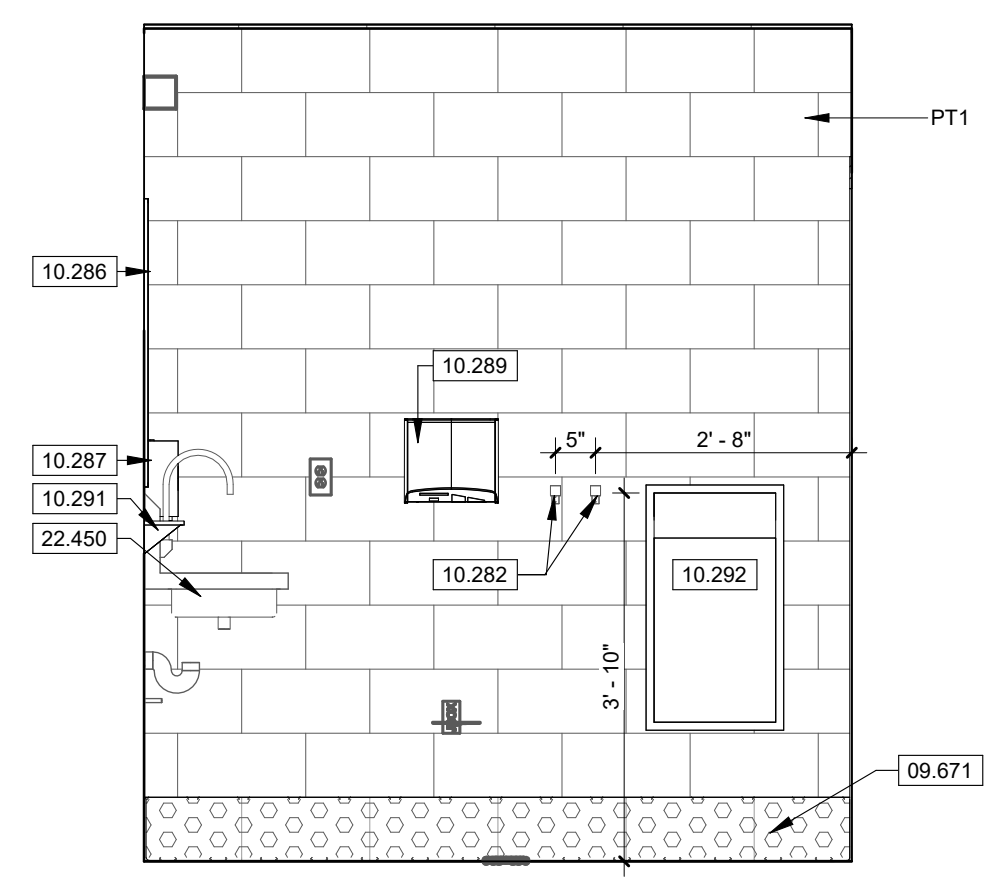
**10** SHOWER SEAT  
SCALE 1 1/2" = 1'-0"



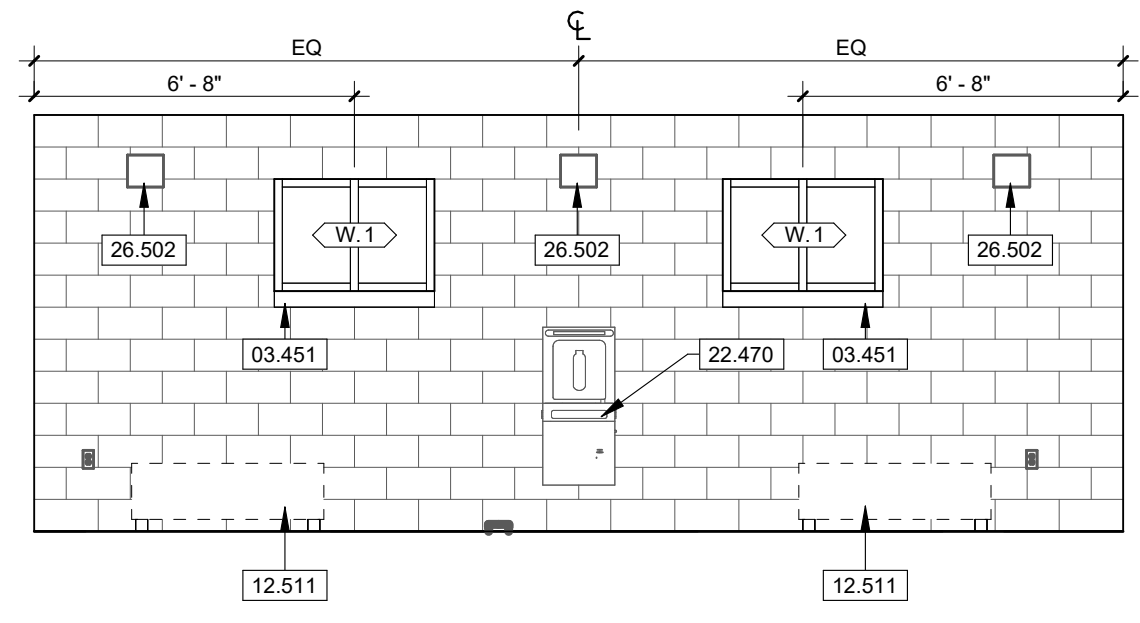
**9** TYP. RR WET WALL  
SCALE 1/2" = 1'-0"



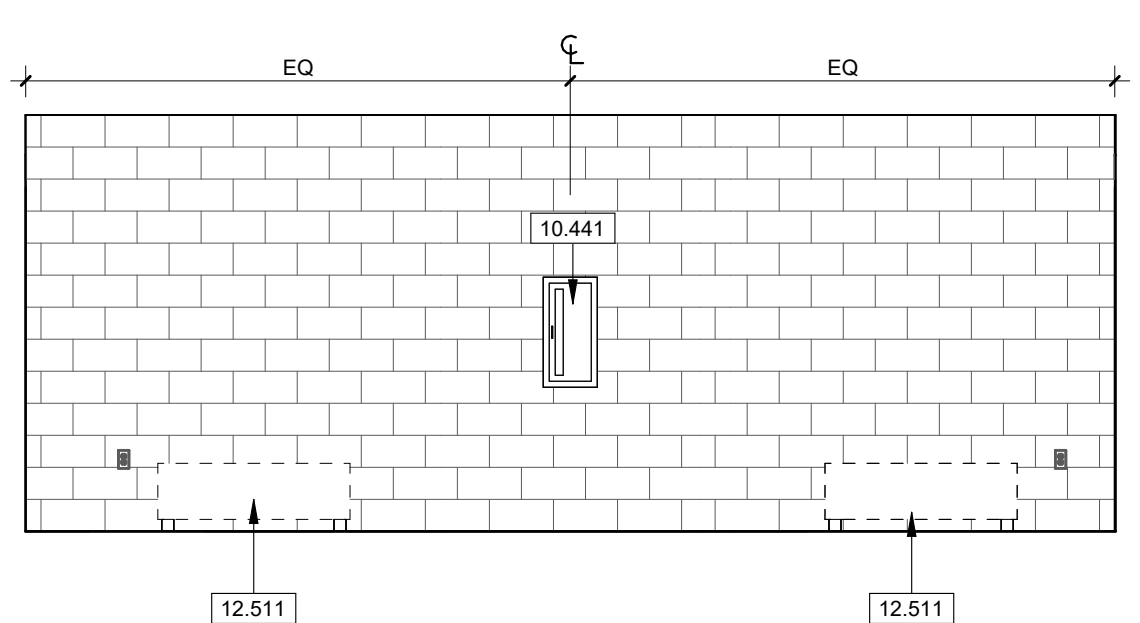
**5** TYP. RR TOILET PAPER  
SCALE 1/2" = 1'-0"



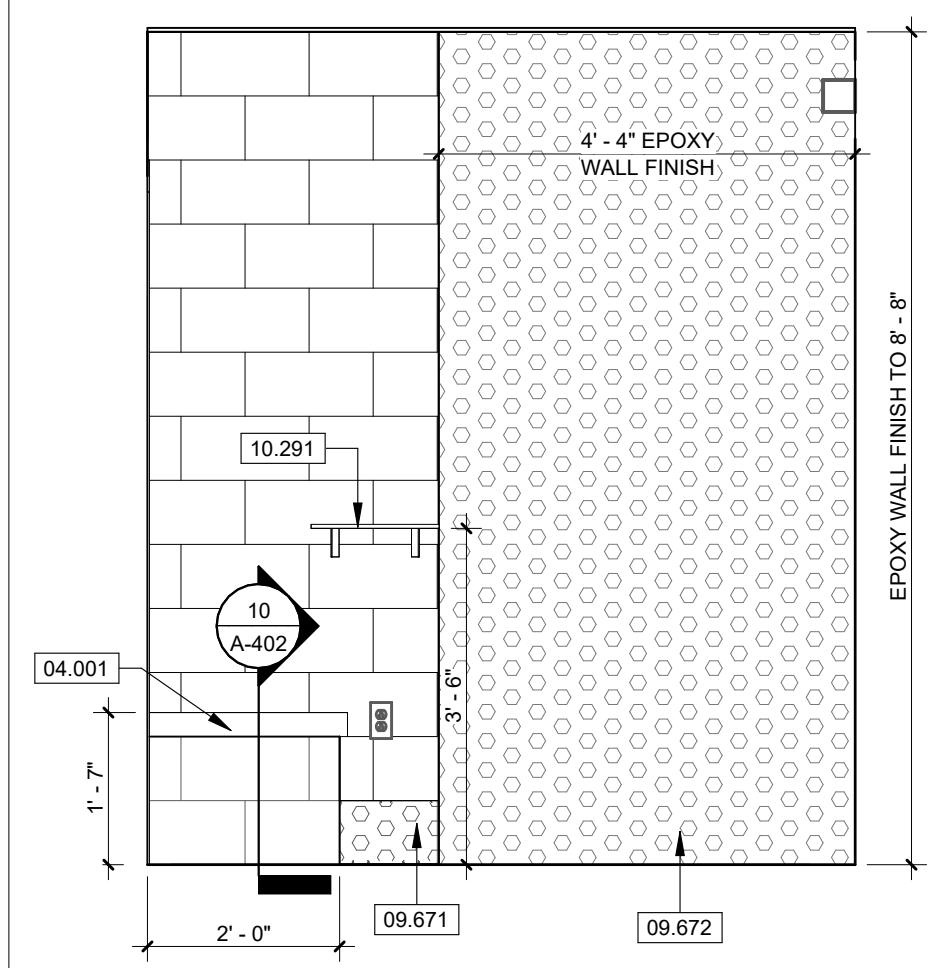
**4** TYP. RR HAND DRYER  
SCALE 1/2" = 1'-0"



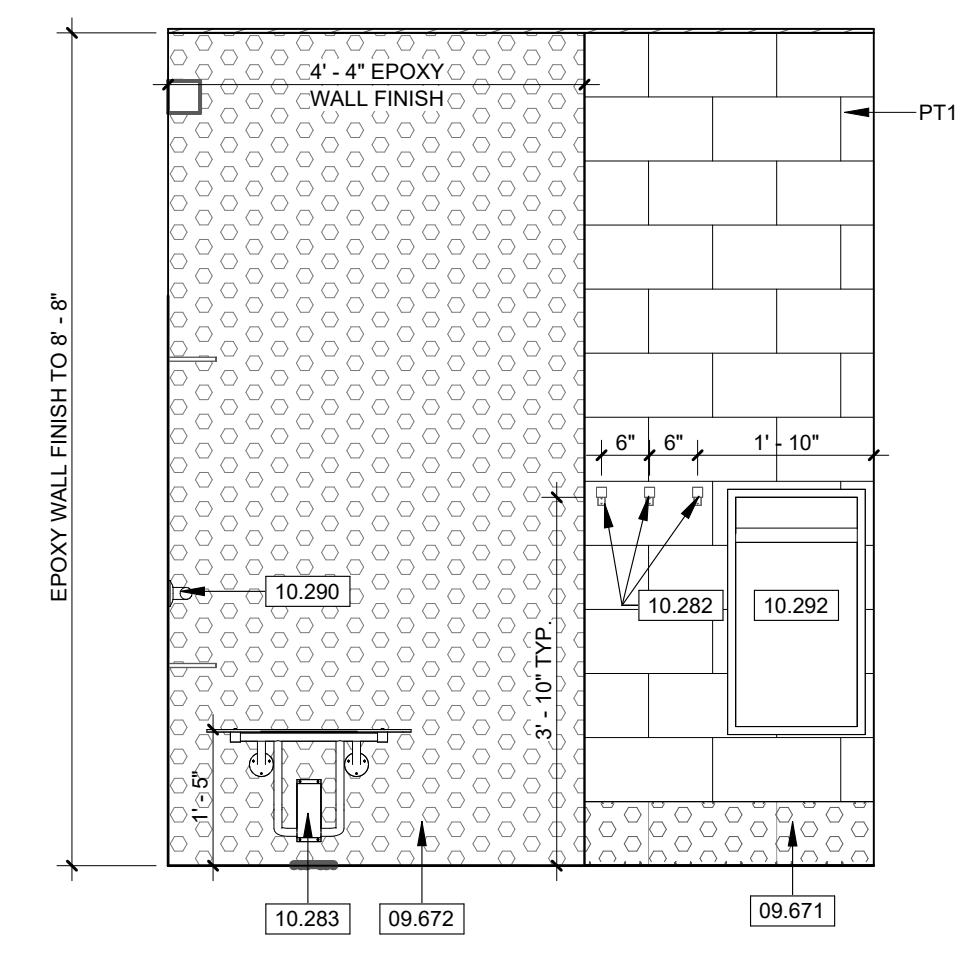
**8** SOUTH-WEST BREEZEWAY ELEVATION  
SCALE 1/4" = 1'-0"



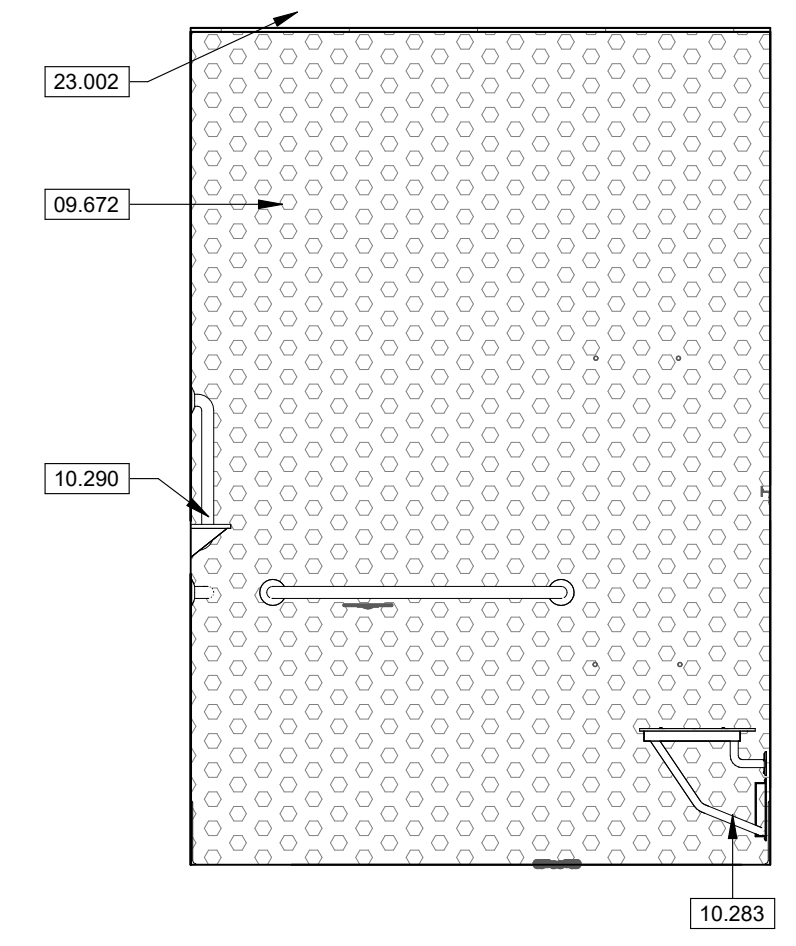
**3** NORTH-EAST BREEZEWAY ELEVATION  
SCALE 1/4" = 1'-0"



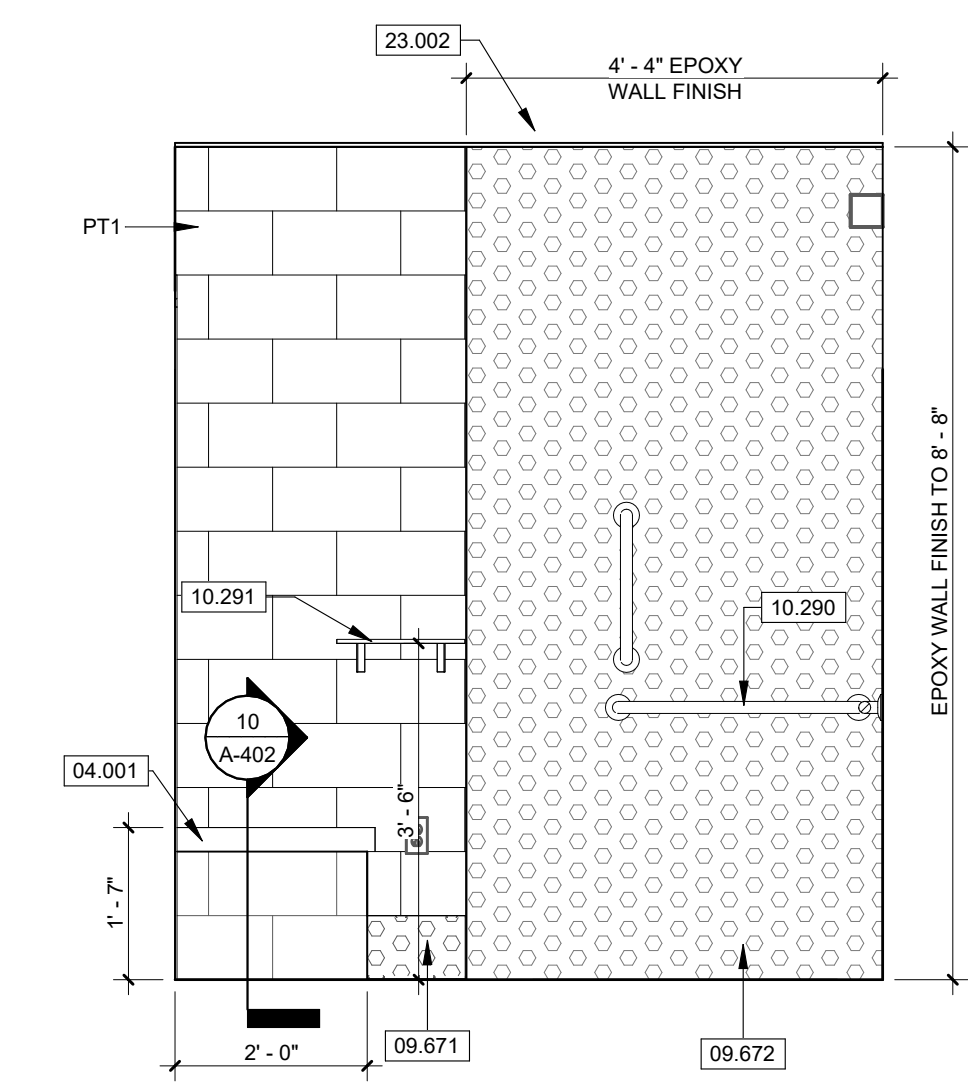
**7** TYP SHOWER NE ELEVATION  
SCALE 1/2" = 1'-0"



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



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



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

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Department of Natural Resources,  
State Parks

# CAMPGROUND SHOWER HOUSE REPLACEMENT

Wakonda State Park  
La Grange, MO

PROJECT NUMBER: X2531-01  
SITE NUMBER: 5116  
ASSET NUMBER: 7815116003

REVISION SCHEDULE

ISSUE DATE: 10/24/2025

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

SHEET TITLE:  
**WALL DETAILS**

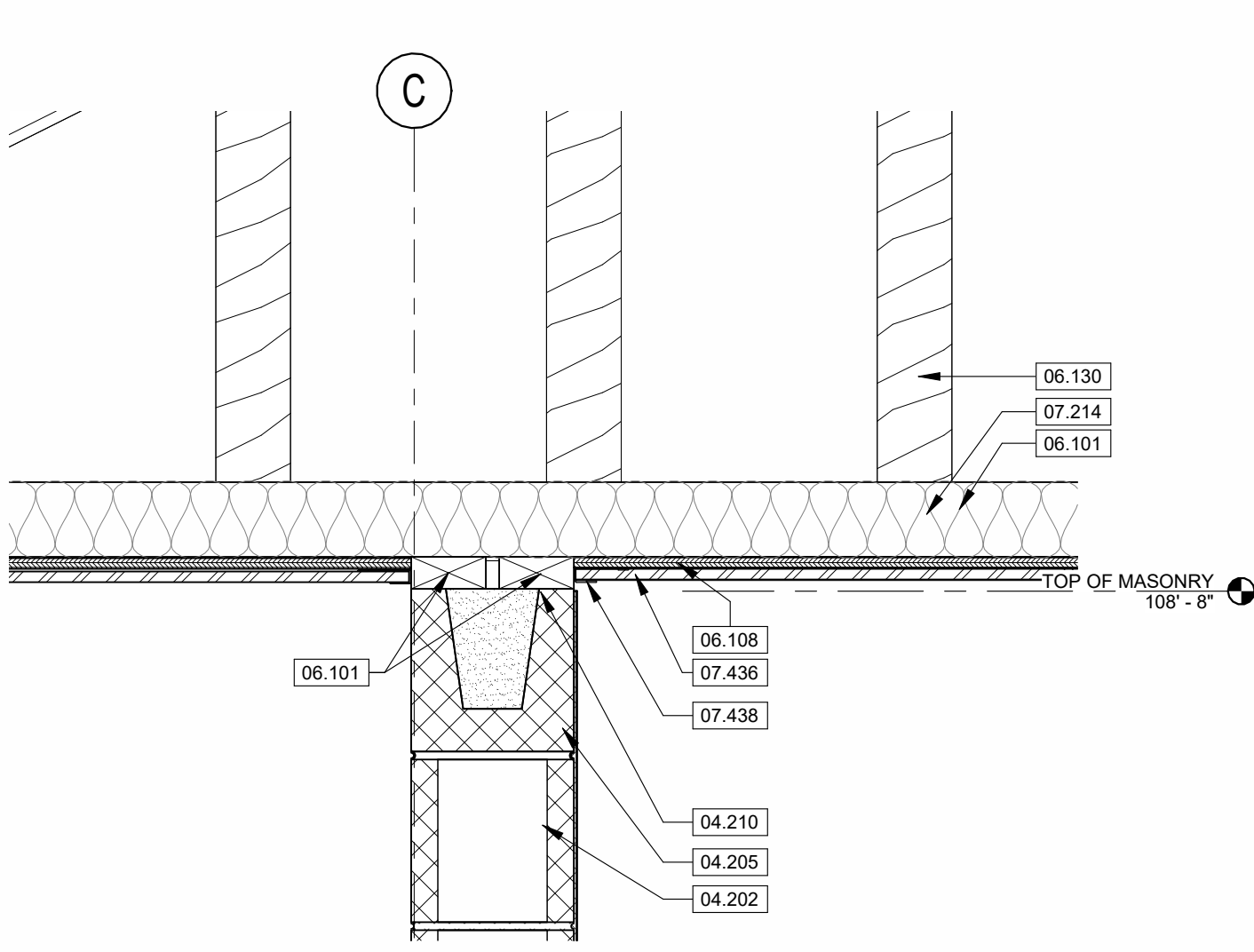
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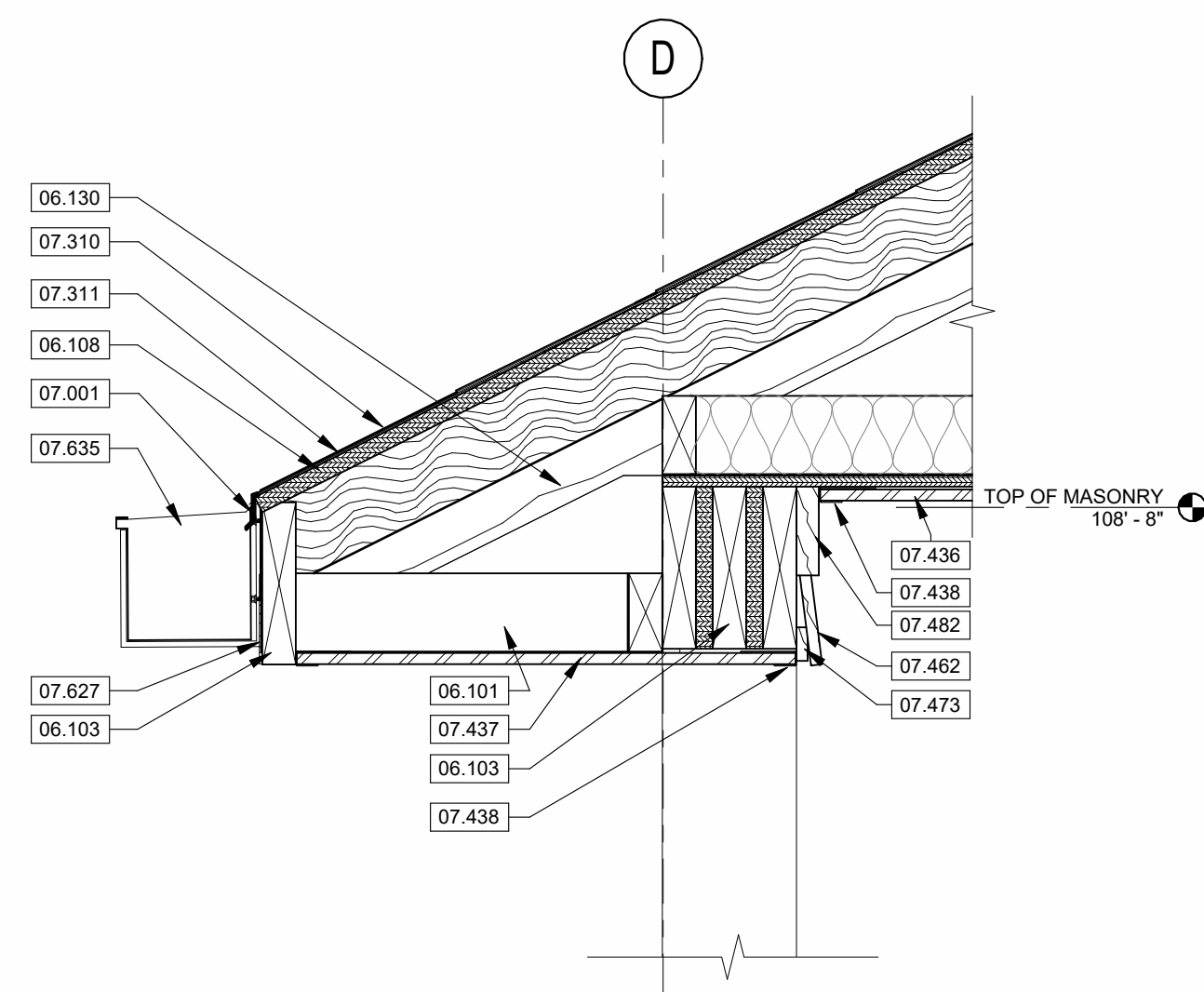
26 OF 38 SHEETS  
10/24/2025

### KEYNOTE LEGEND

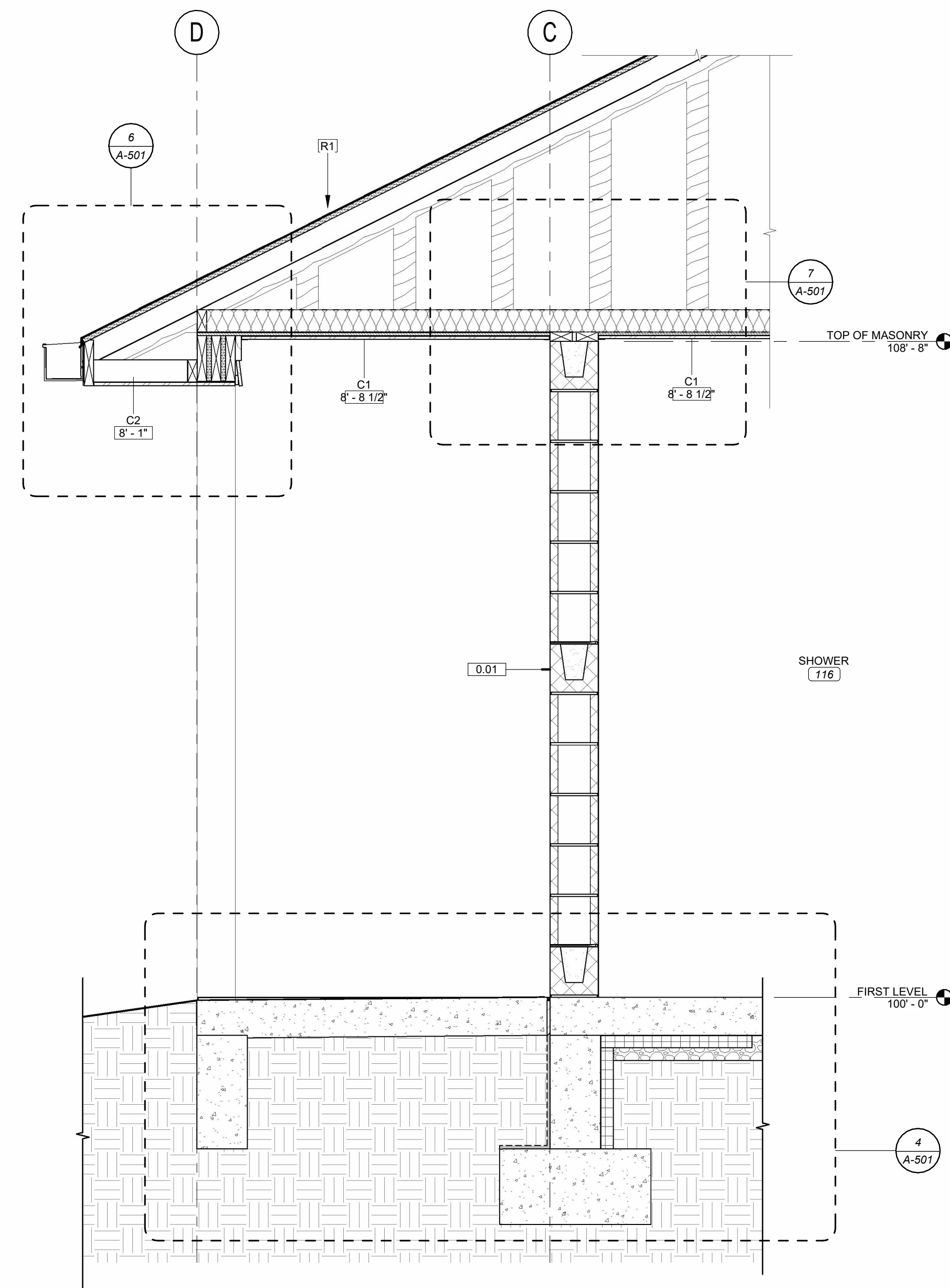
03.052	15 MIL. VAPOR BARRIER. SEE SECTION 03.0516 UNDERSLAB VAPOR BARRIER.
03.053	EXTEND VAPOR BARRIER TO TOP OF FOOTING. SEE SECTION 03.0516 UNDERSLAB VAPOR BARRIER.
03.301	REINFORCED CONCRETE SLAB. SEE STRUCTURAL. SEE SECTION 03.3000 CAST-IN-PLACE CONCRETE.
03.303	CAST-IN-PLACE CONCRETE FOUNDATION 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.
04.210	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	2X6 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 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	8" 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.



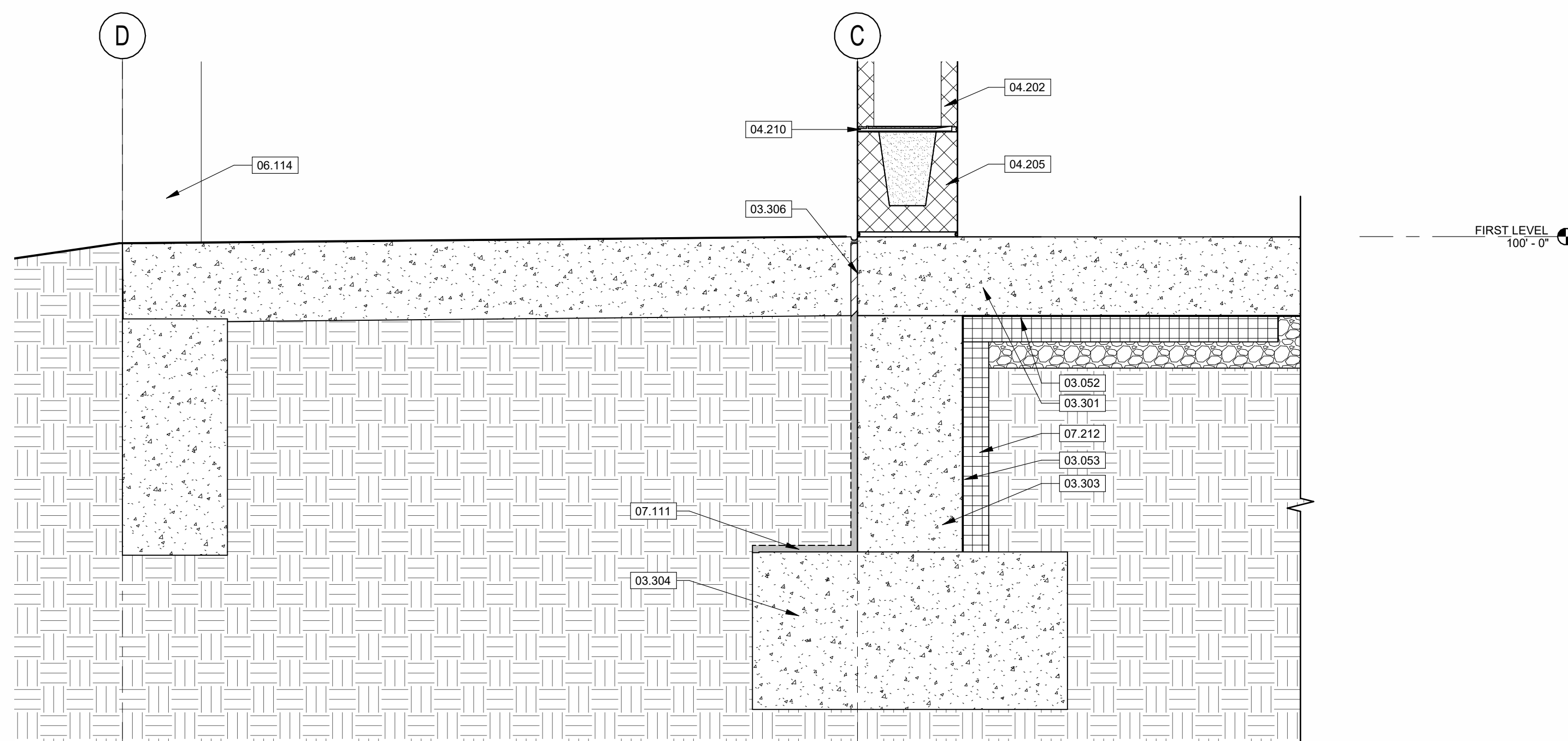
**7** TOP OF WALL TYP DTL  
SCALE 1 1/2" = 1'-0"



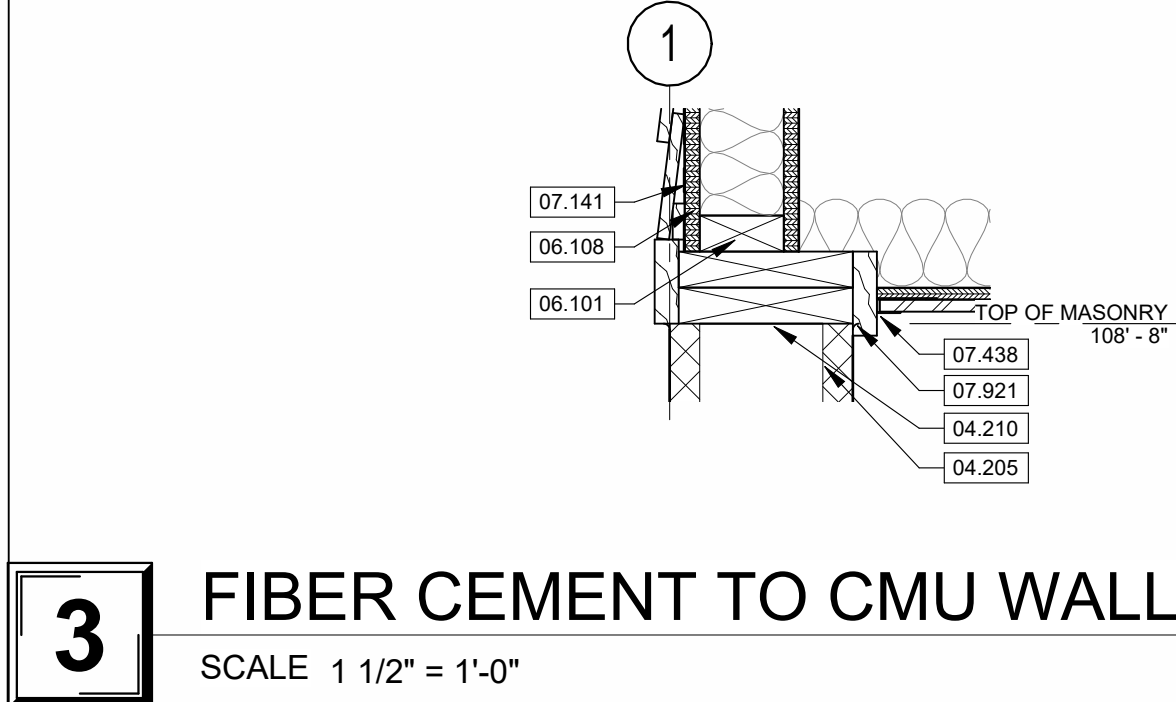
**6** TYP GUTTER  
SCALE 1 1/2" = 1'-0"



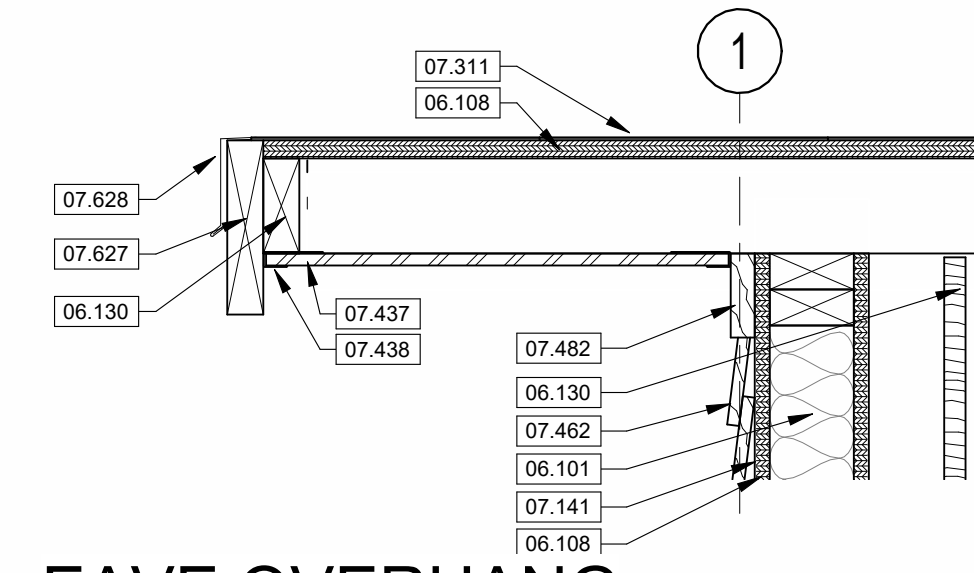
**5** RAKE SECTION  
SCALE 3/4" = 1'-0"



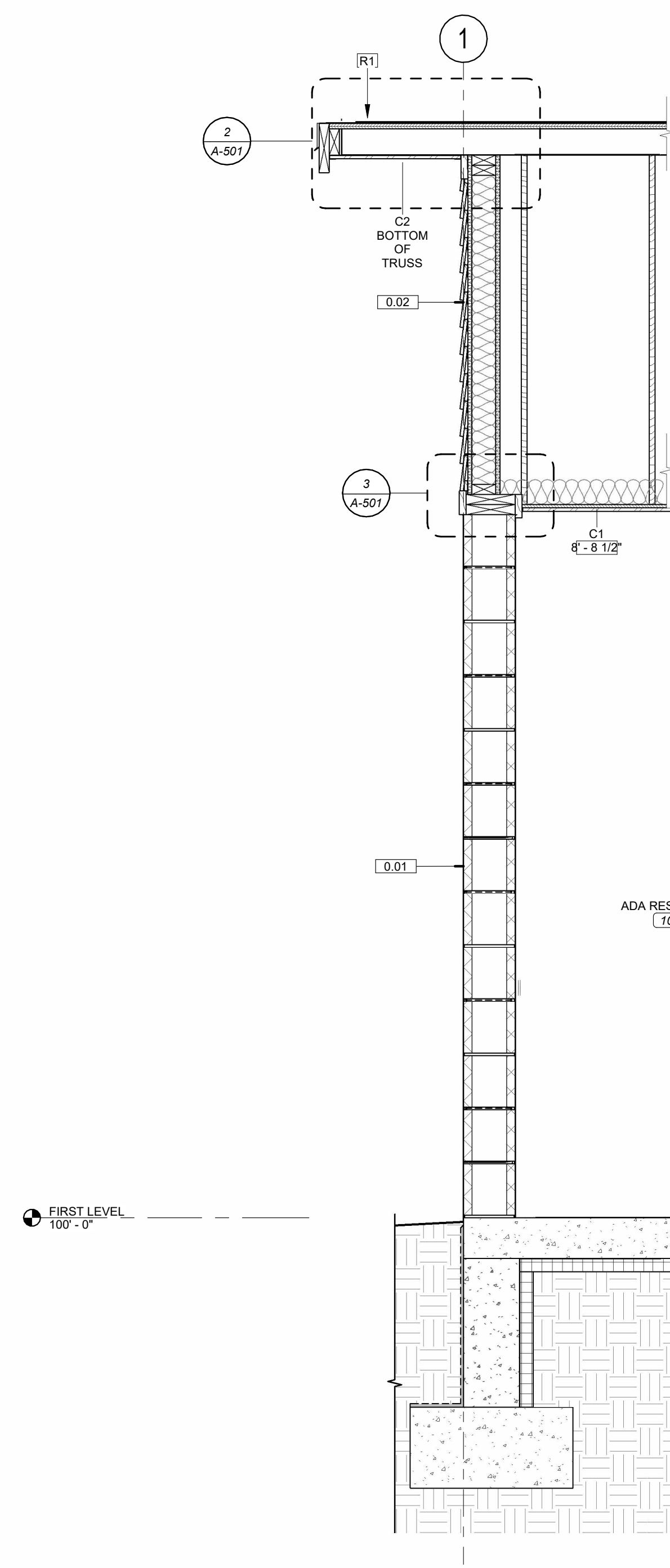
**4** TYPICAL FOUNDATION  
SCALE 1 1/2" = 1'-0"



**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"

### WALL SCHEDULE

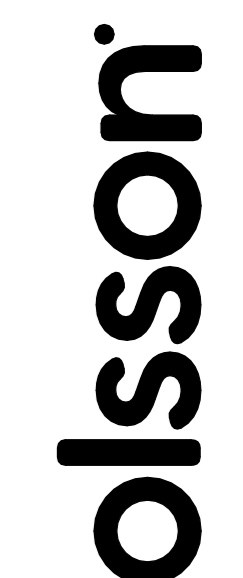
0.01	8" GROUND FACE CMU RUNNING BOND
0.02	FIBER CEMENT SIDING ONE SIDE OVER AIR BARRIER OVER WALL SHEATHING OVER GABLE END TRUSS
0.04	2 X 6 WOOD FRAMING AT 16" O.C. WITH 5/8" GYPSUM BOARD FINISHED SIDE
2.01	8" CMU RUNNING BOND-2 HR
W1	STOREFRONT ASSEMBLY-2" X 4.5" MULLIONS WITH CENTER SET GLAZING







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DEPARTMENT OF  
NATURAL RESOURCES,  
STATE PARKS

CAMPGROUND  
SHOWER HOUSE  
REPLACEMENT

WAKONDA  
STATE PARK  
LA GRANGE, MO

PROJECT #X2531-01  
SITE # 5116  
ASSET # 7815116003

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

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

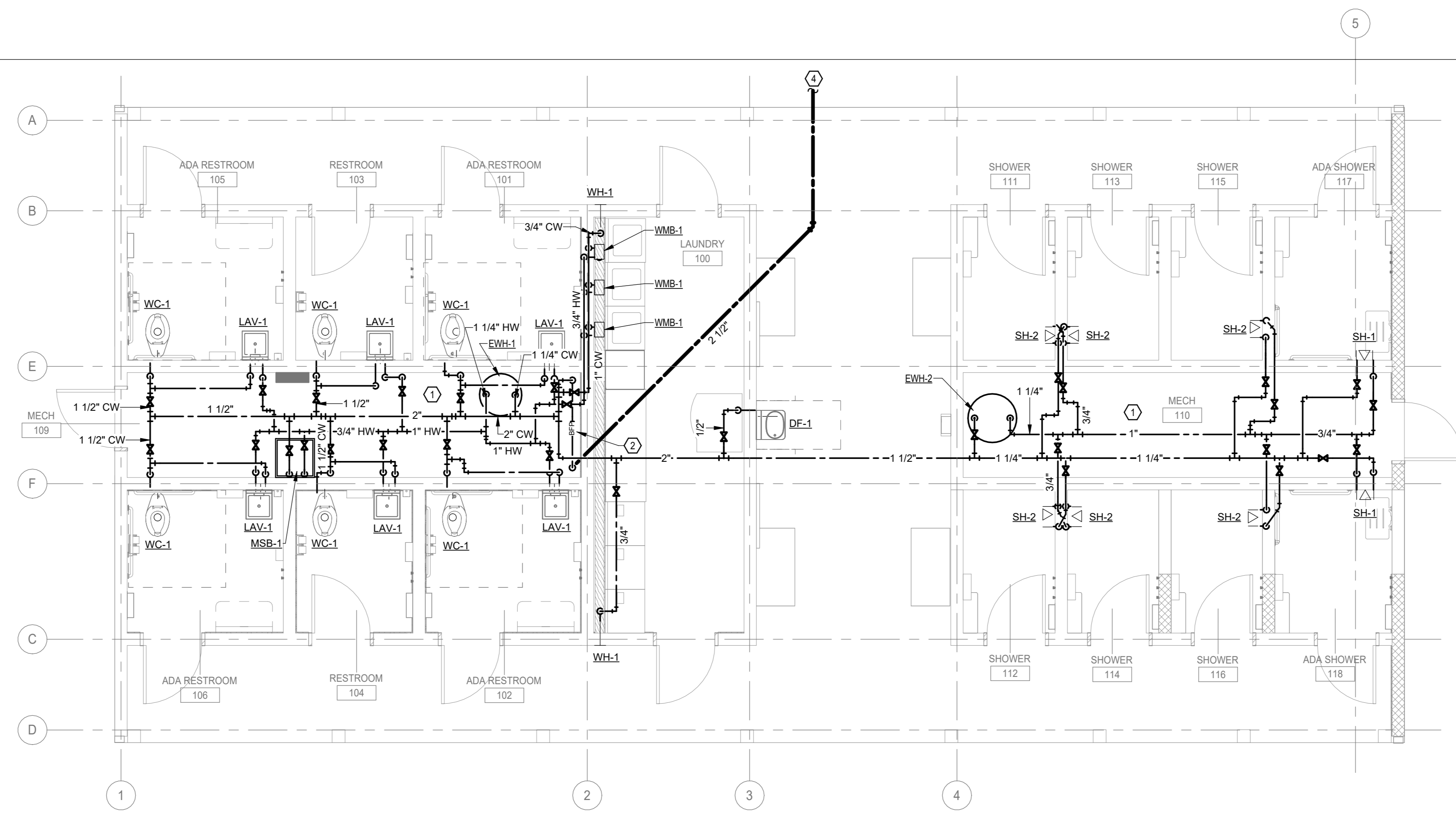
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PLUMBING PLANS

SHEET NUMBER:

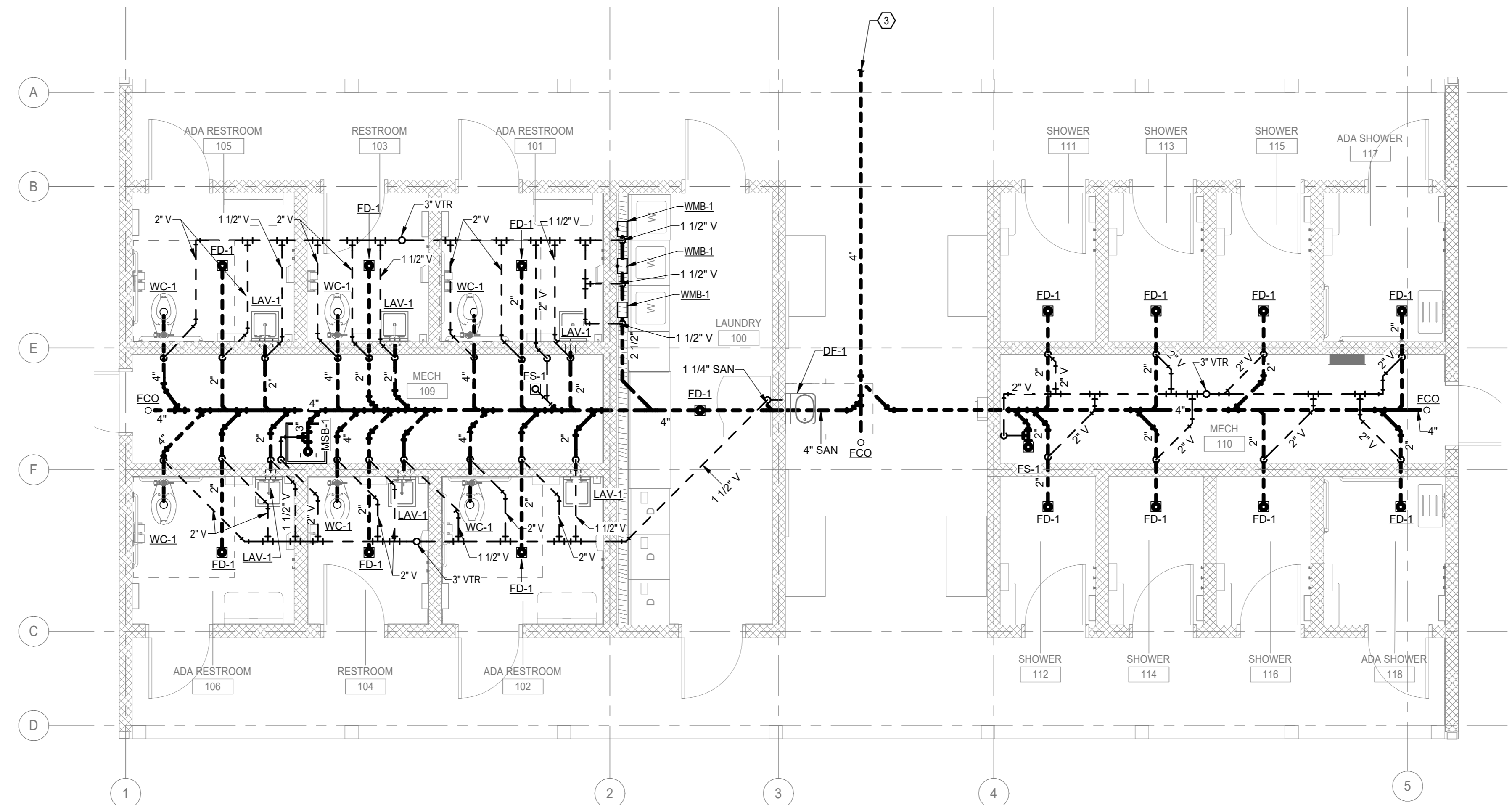
**P-101**

xx SHEET KEYNOTES

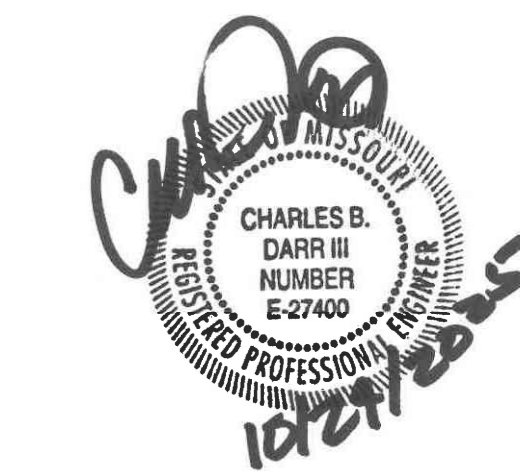
1. DOMESTIC WATER PIPING TO BE SLOPED TO ALLOW DRAIN DOWN FOR WINTERIZATION OF THE BUILDING. DRAINS TO BE ADDED AT LOW POINTS.
2. PROVIDE SHUT-OFF VALVE IN VERTICAL PIPE. SEE DETAIL 9IP-501.
3. SANITARY DRAIN PIPE BUILDING EXIT. REFER TO CIVIL SHEETS FOR DESIGN OF SANITARY PIPING BEYOND THE BUILDING.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



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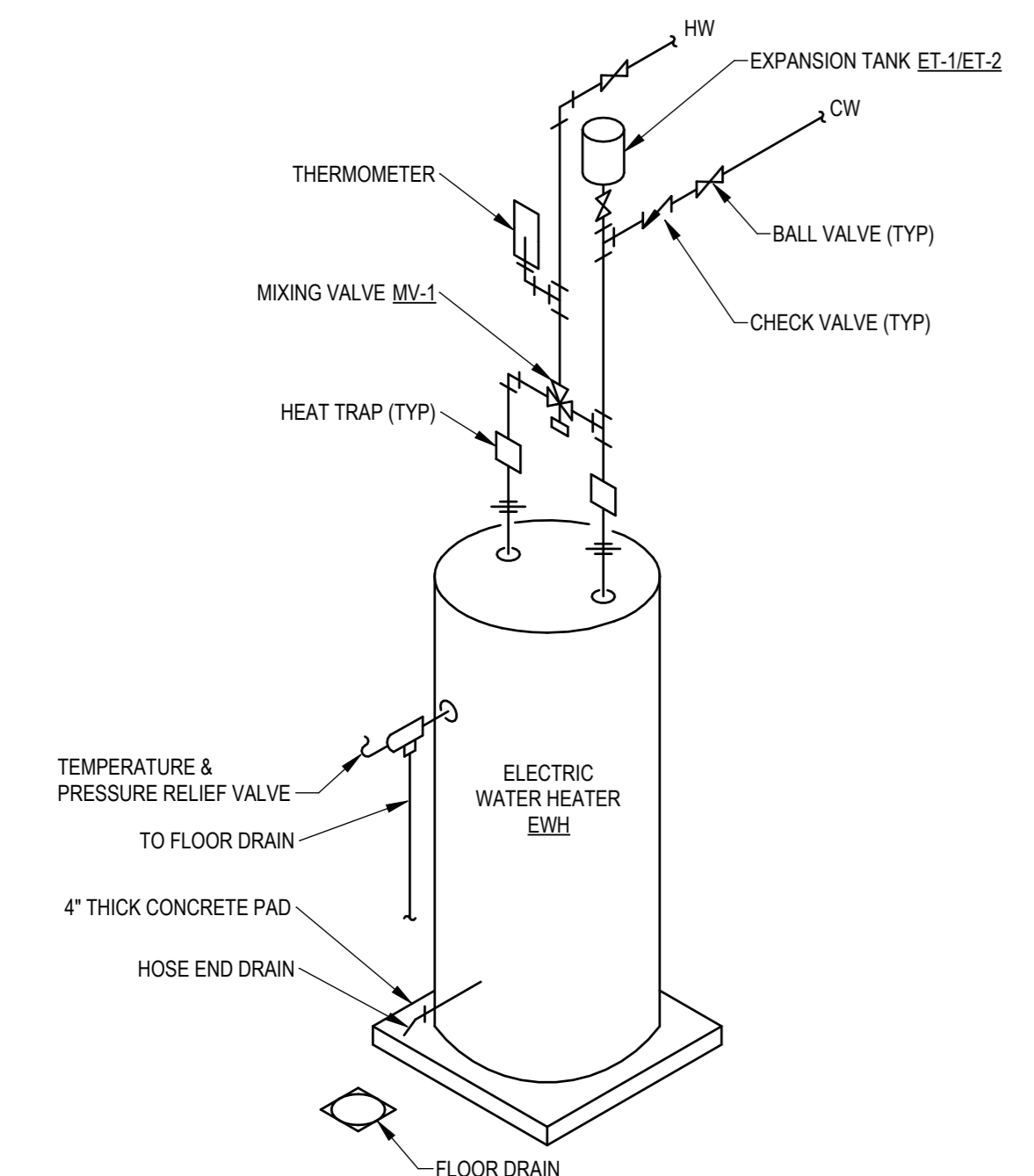
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/24/2025

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

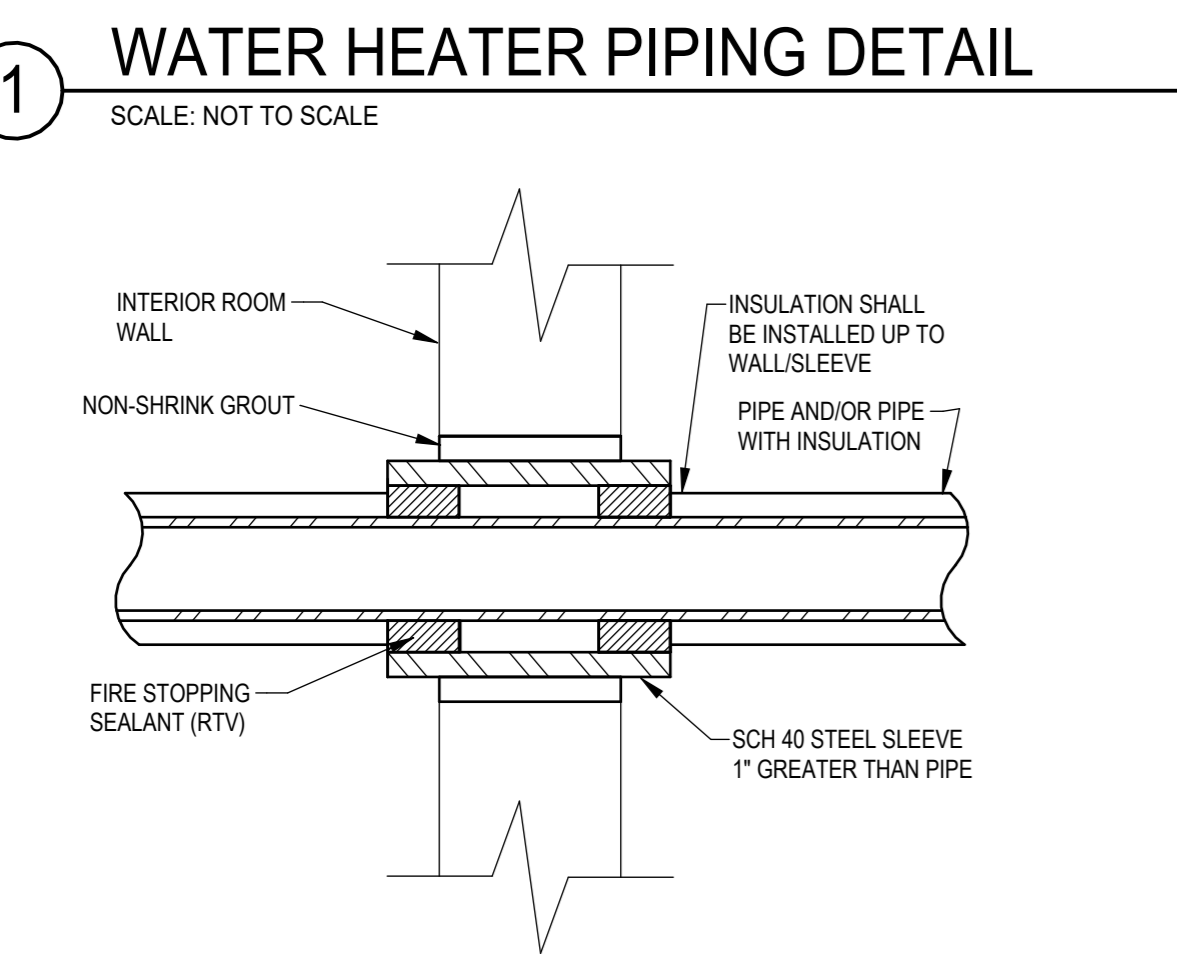
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**PLUMBING DETAILS**

SHEET NUMBER:

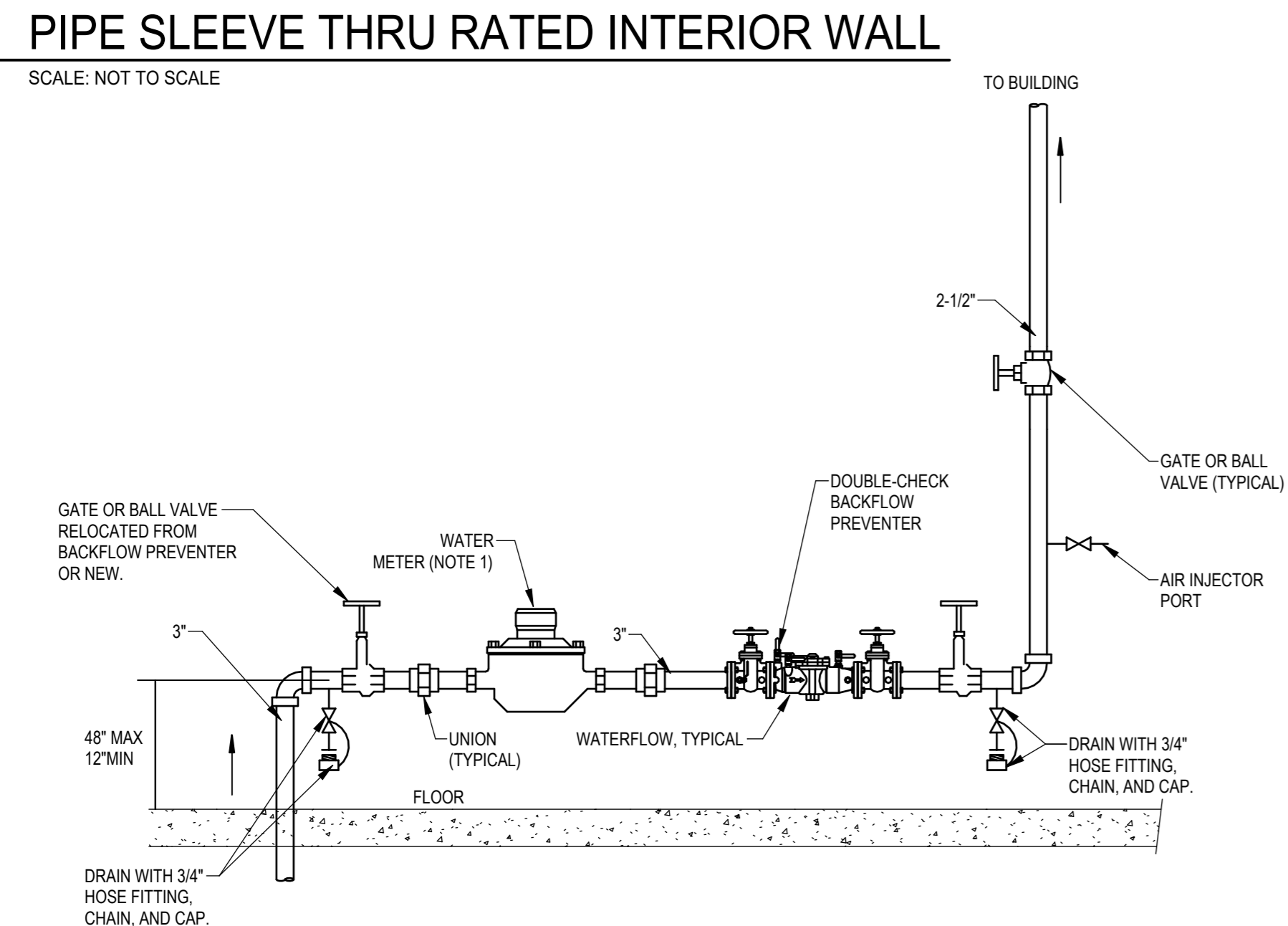
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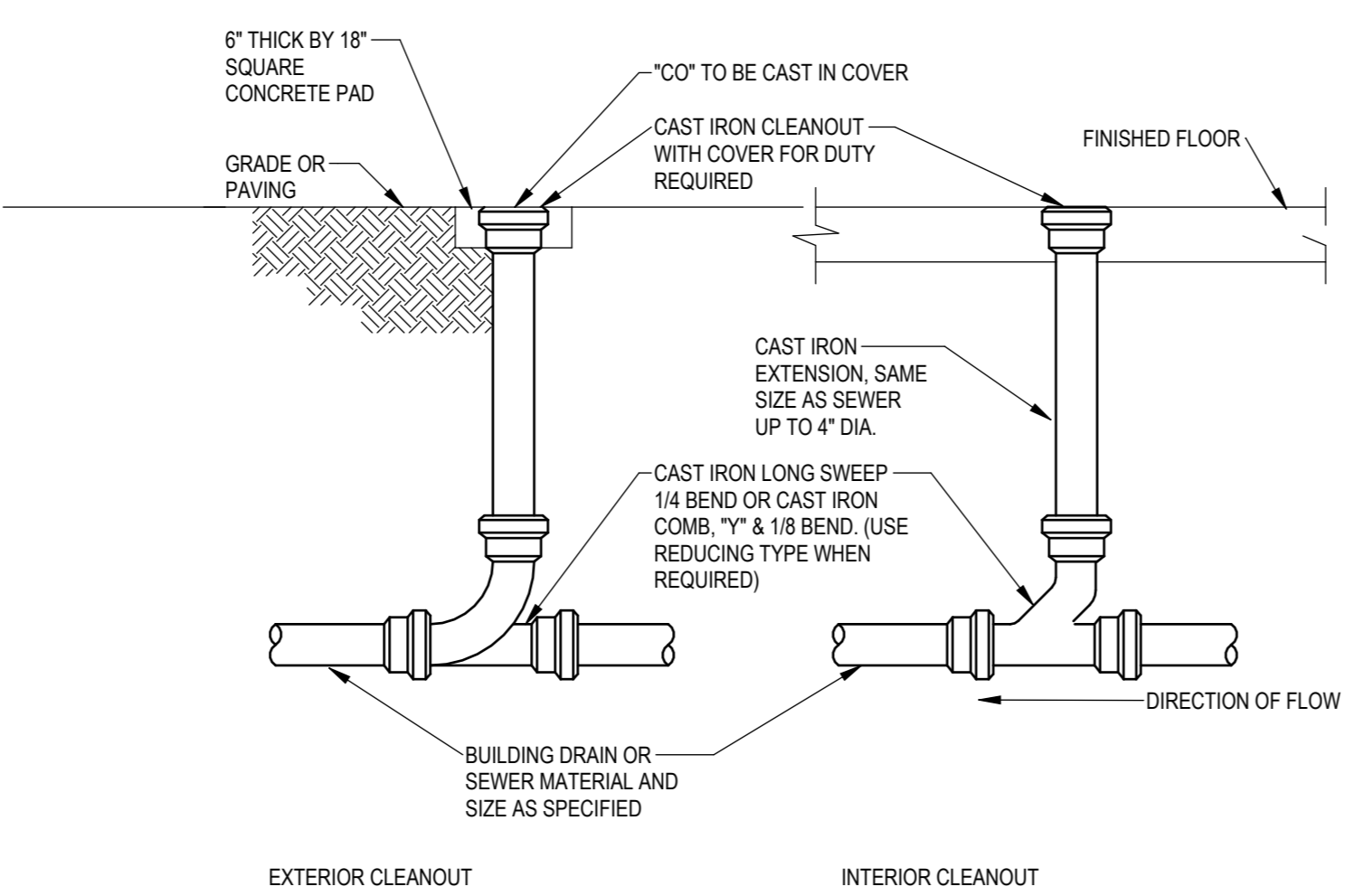
**1 WATER HEATER PIPING DETAIL**  
SCALE: NOT TO SCALE



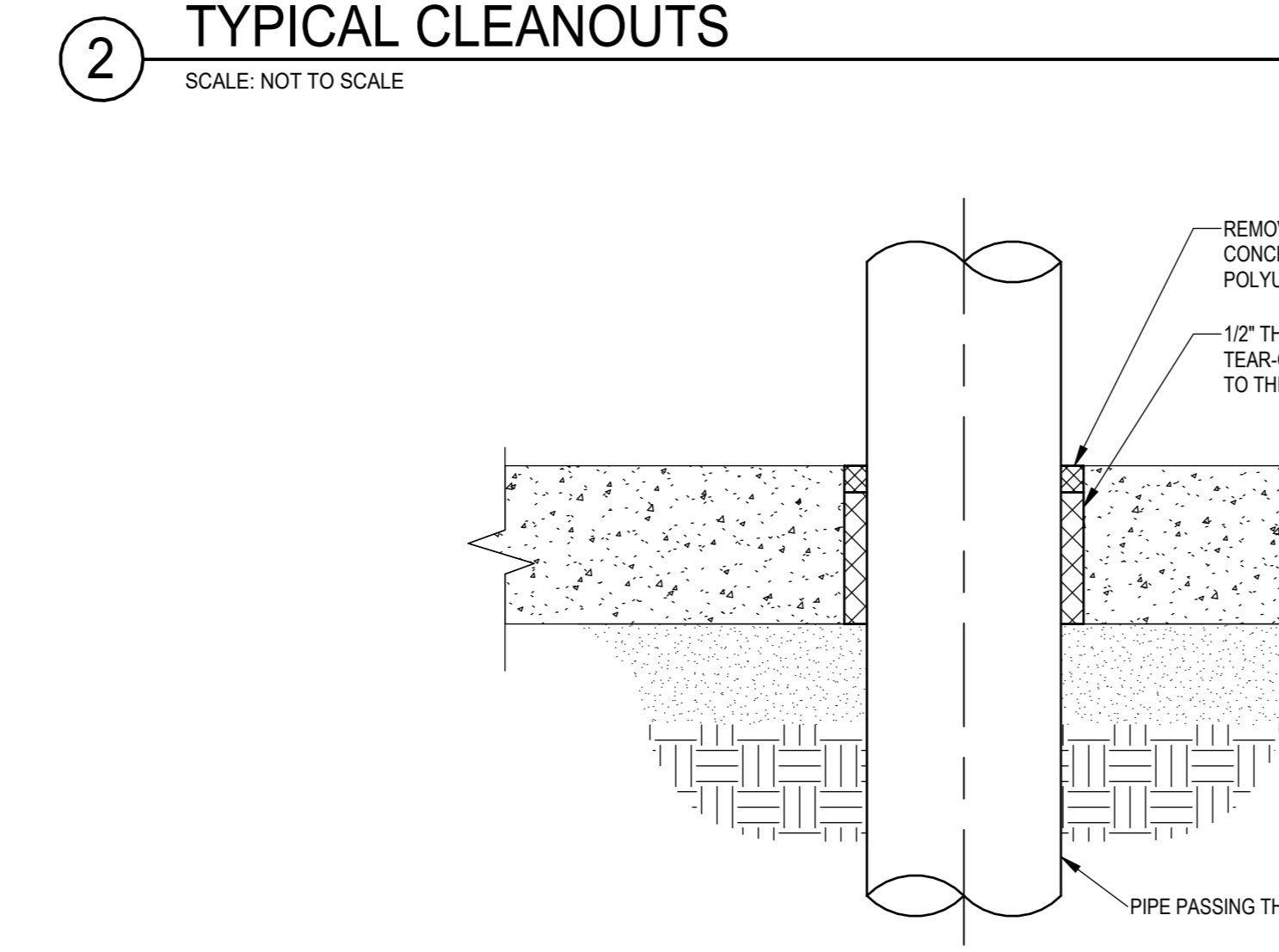
**4 PIPE SLEEVE THRU RATED INTERIOR WALL**  
SCALE: NOT TO SCALE



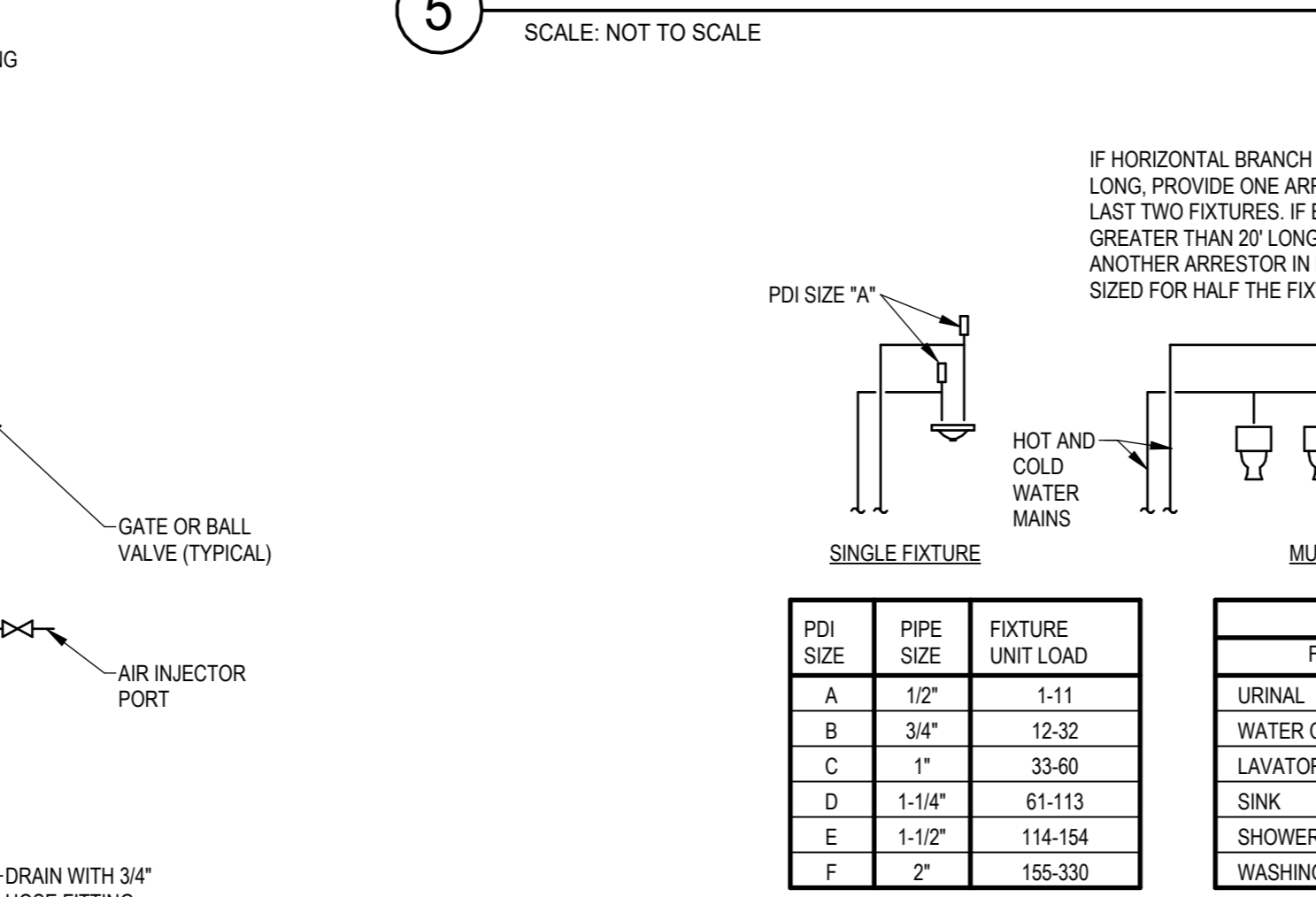
**6 DOMESTIC WATER ENTRANCE**  
SCALE: NOT TO SCALE



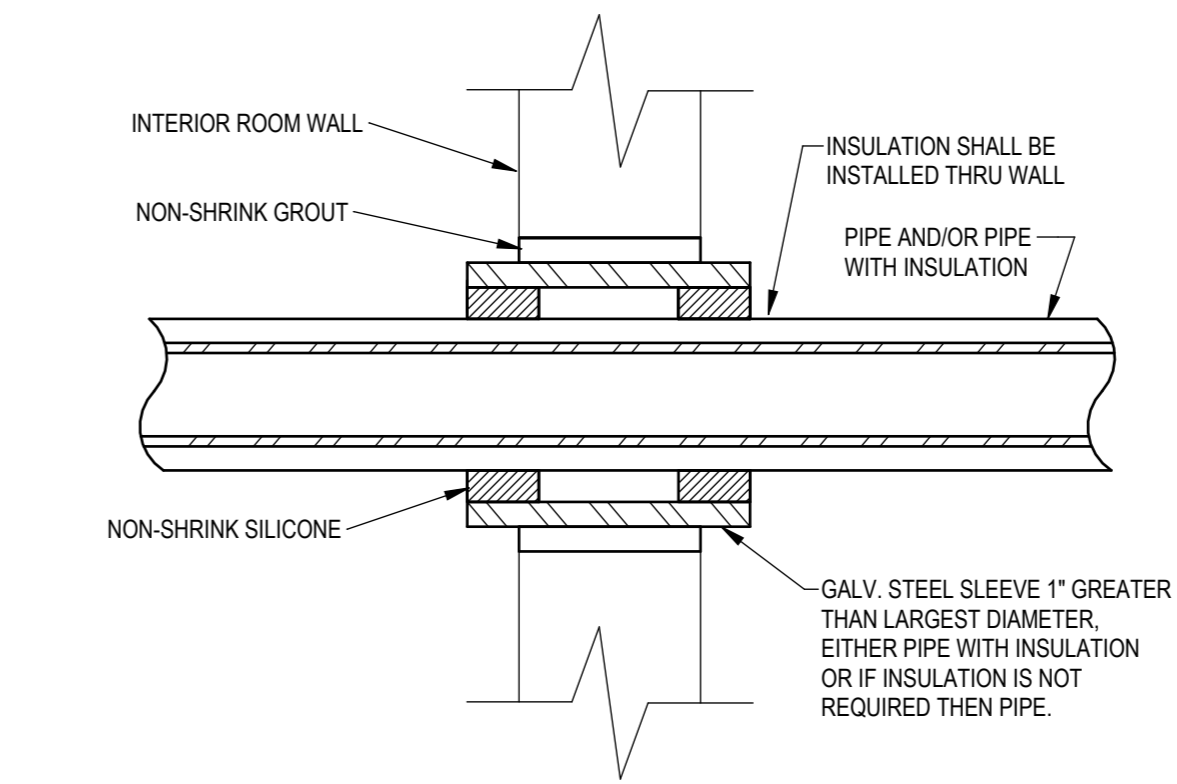
**2 TYPICAL CLEANOUTS**  
SCALE: NOT TO SCALE



**5 PIPE PENETRATION THRU SLAB ON GRADE**  
SCALE: NOT TO SCALE



**7 WATER HAMMER ARRESTOR DETAIL**  
SCALE: NOT TO SCALE



**3 PIPE SLEEVE THRU NON-RATED INTERIOR WALL**  
SCALE: NOT TO SCALE

**8 BUILDING WINTERIZATION CHECKLIST SIGN**  
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



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PROJECT #X2531-01  
SITE # 5116  
ASSET # 7815116003

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ISSUE DATE: 10/24/2025

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

SHEET TITLE:  
**PLUMBING  
SCHEDULES**

SHEET NUMBER:

**P-601**

**PLUMBING FIXTURE SCHEDULE**

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 GAIRD MDOLED 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 1955CT 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.

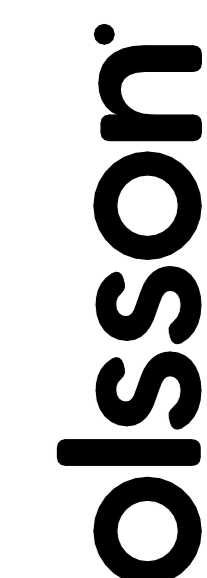
**WATER HEATERS (ELECTRIC)**

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	1-3,5,6
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.  
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



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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
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DEPARTMENT OF  
NATURAL RESOURCES,  
STATE PARKS

CAMPGROUND  
SHOWER HOUSE  
REPLACEMENT

WAKONDA  
STATE PARK  
LA GRANGE, MO

PROJECT #X2531-01  
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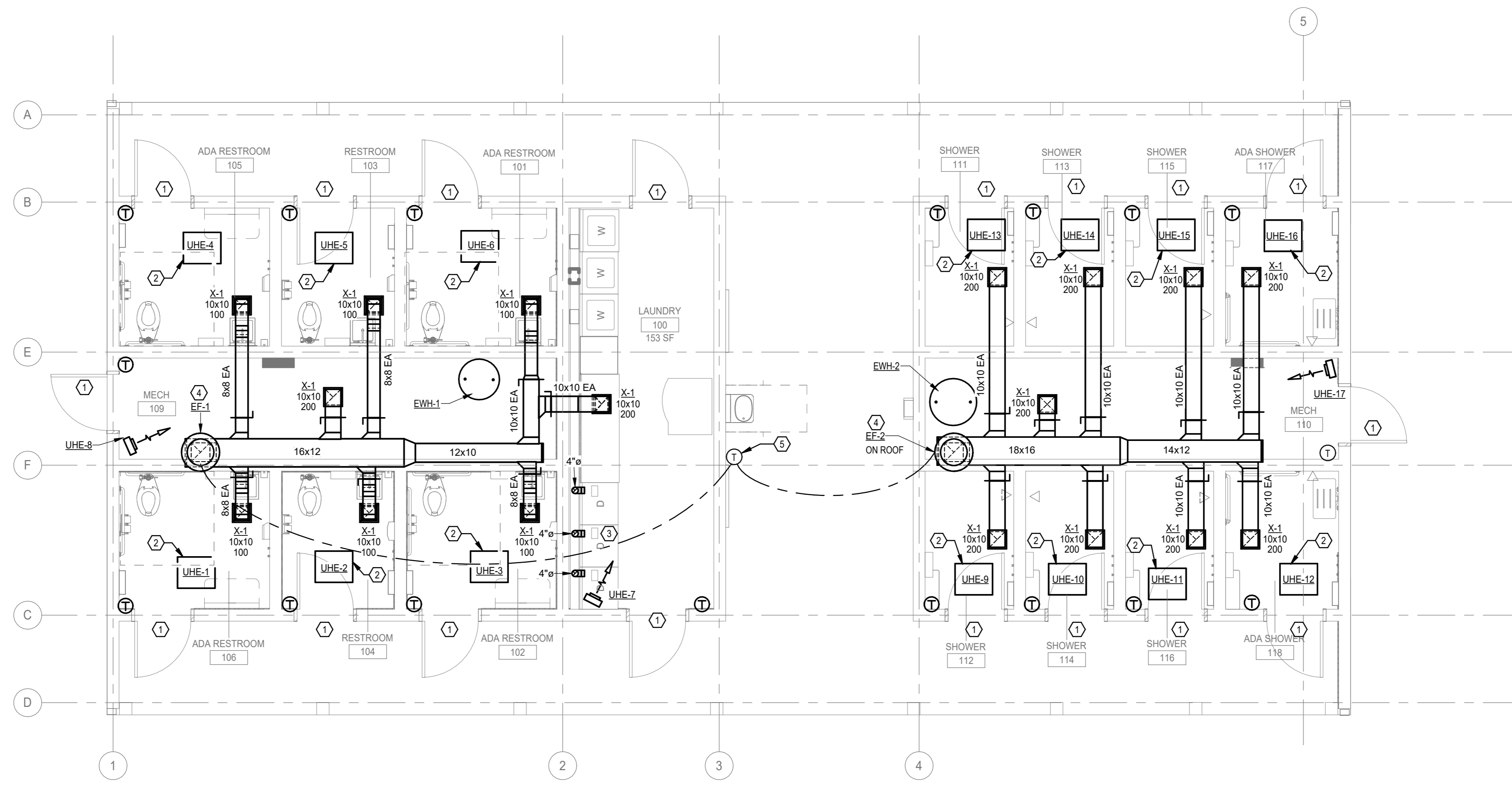
SHEET TITLE:  
HVAC PLAN

SHEET NUMBER:

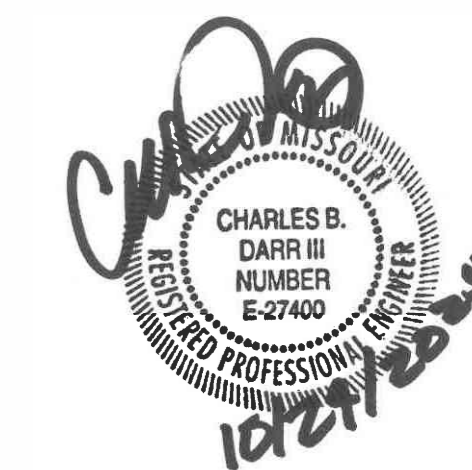
**M-101**

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 11M-801 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"



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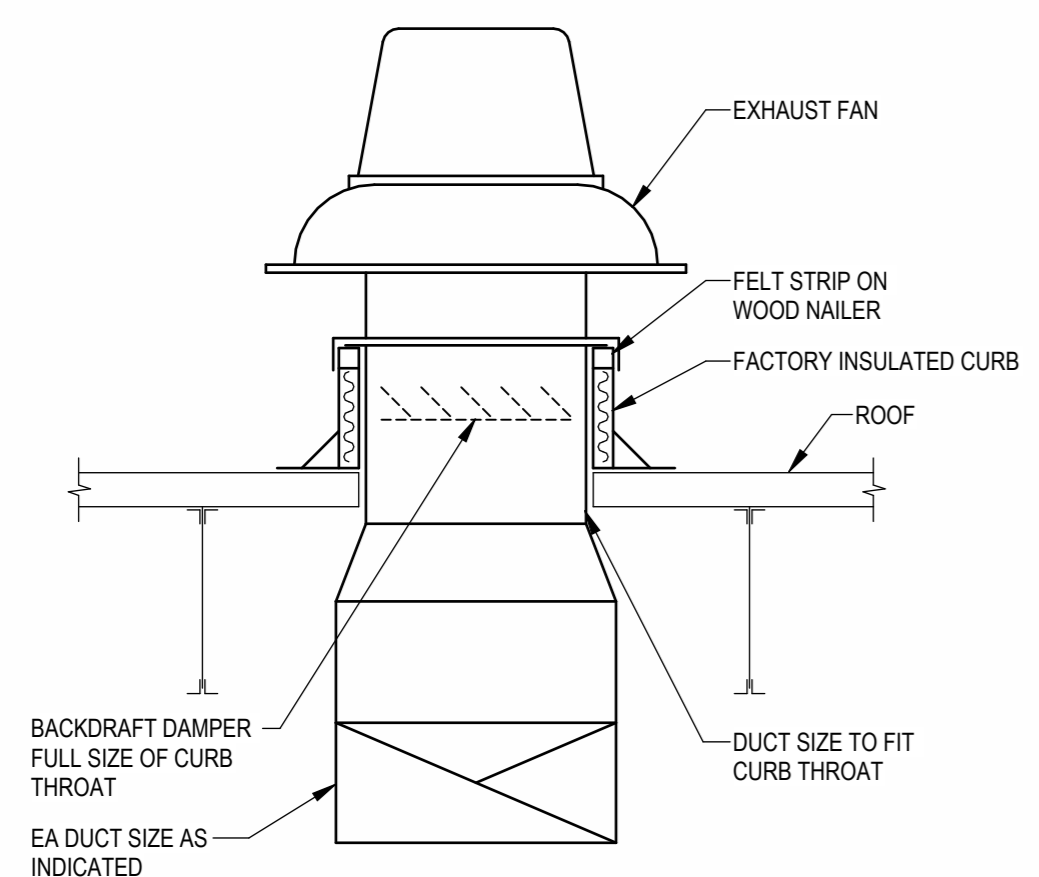
SHEET TITLE:  
**MECHANICAL  
SCHEDULES AND  
DETAILS**

SHEET NUMBER:

**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.



**1 EXHAUST FAN DETAIL**  
SCALE: NOT TO SCALE

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 2500 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

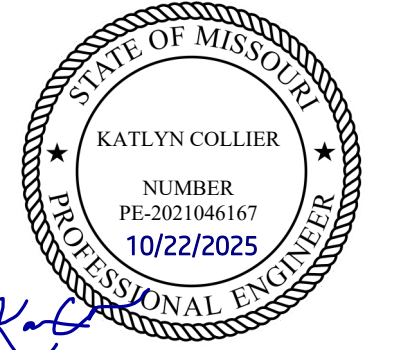
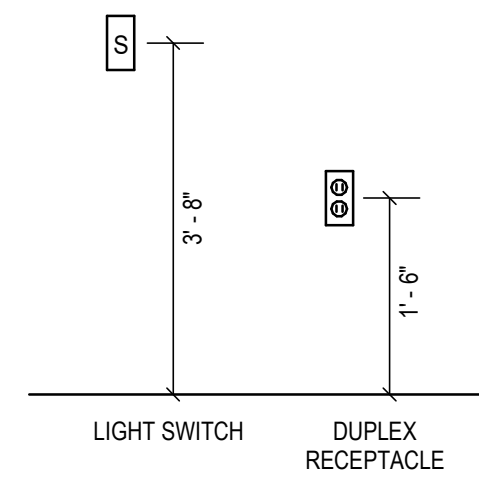
- A. FULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL DEVICES WITH THE WORK OF OTHER TRADES. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR DEVICE MOUNTING HEIGHT AND LOCATION WHERE DEVICE IS TO BE INSTALLED IN CASEWORK. BACK-TO-BACK MOUNTING OF DEVICES IS NOT ACCEPTABLE IN A STANDARD 3-5/8" STUD 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:
- BATHROOMS AND RESTROOMS
  - ROOFTOPS
  - OUTDOORS
  - RECEPTACLES WITHIN 6FT OF A SINK
  - INDOOR DAMP AND WET LOCATIONS
  - LOCKER ROOMS WITH ASSOCIATED SHOWER FACILITIES
  - LAUNDRY AREAS
  - BATHTUBS AND SHOWER STALLS
  - 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 - WAKONDA
E-101	LIGHTING PLAN
E-201	POWER PLAN
E-701	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	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.



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DEPARTMENT OF  
NATURAL RESOURCES,  
STATE PARKS

CAMPGROUND  
SHOWER HOUSE  
REPLACEMENT

WAKONDA  
STATE PARK  
LA GRANGE, MO

PROJECT # X2531-01  
SITE # 5116  
ASSET # 7815116003

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**



*K.C.*

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DATE: \_\_\_\_\_  
ISSUE DATE: 10/24/2025

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: ERR  
CHECKED BY: KC  
DESIGNED BY: ERR

SHEET TITLE:  
ELECTRICAL SITE  
PLAN - WAKONDA

SHEET NUMBER:

**E-002**

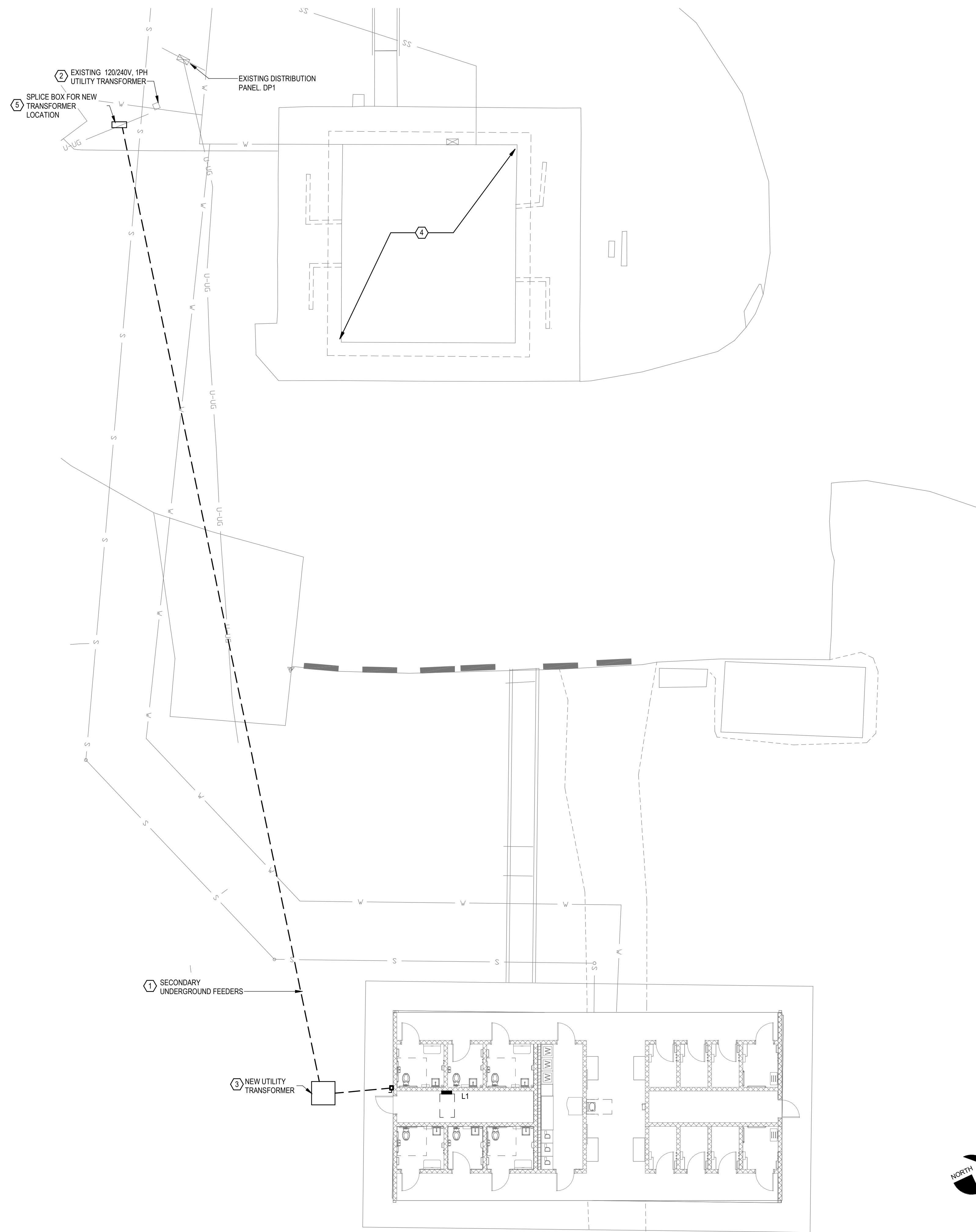
35 OF 38 SHEETS  
10/24/2025

**GENERAL SHEET NOTES**

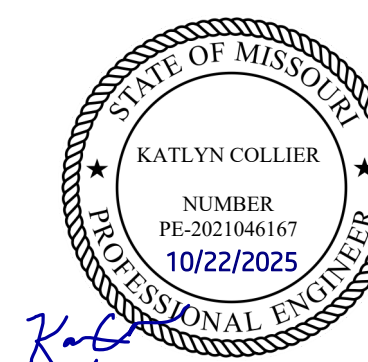
- A. CONTRACTOR SHALL COORDINATE PLACEMENT AND ROUTING OF CONDUITS WITH UTILITY COMPANY PRIOR TO INSTALLATION. COORDINATE EXACT CONDUIT SIZES AND QUANTITIES WITH UTILITY COMPANY PRIOR TO INSTALLATION.
- B. COORDINATE WITH ROUTING OF OTHER UNDERGROUND UTILITIES AND EXISTING SITE CONDITIONS PRIOR TO INSTALLATION.
- C. UTILITY CONTACT INFORMATION:  
LEWIS COUNTY REC  
18256 MO-16 LEWISTON, MO 63452  
TERRY O'BRIAN  
EMAIL: tobrian@lewiscountypark.org  
PHONE: 1(573)-215-4000

**KEY SHEET KEYNOTES**

- 1. SECONDARY FEEDERS FROM EXISTING UTILITY TRANSFORMER TO SERVICE ENTRANCE DISCONNECT. REFER TO ONE-LINE DIAGRAM FOR WIRE AND CONDUIT SIZES.
- 2. EXISTING TRANSFORMER FEEDS EXISTING CAMPGROUND LOCATIONS.
- 3. NEW TRANSFORMER LOCATION. COORDINATE LOCATION AND ELECTRICAL REQUIREMENTS WITH UTILITY.
- 4. 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.
- 5. UTILITY TO SPlice AHEAD OF EXISTING TRANSFORMER AND BORE TO NEW TRANSFORMER LOCATION.



**1 ELECTRICAL SITE PLAN - WAKONDA**  
SCALE: 1" = 10'-0"



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STATE PARK  
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PROJECT # X2531-01  
SITE # 5116  
ASSET # 7815116003

REVISION: \_\_\_\_\_  
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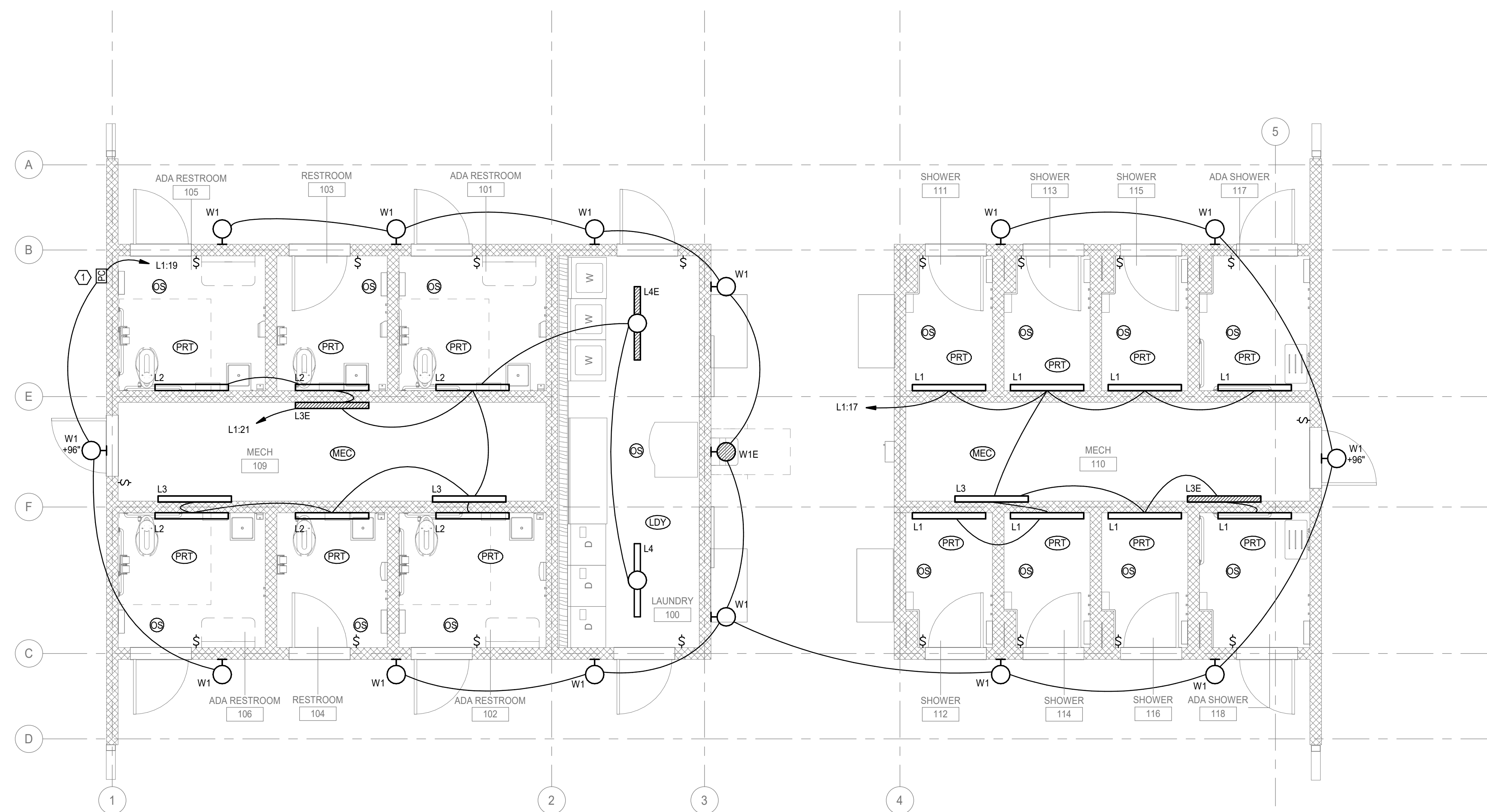
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CHECKED BY: KC  
DESIGNED BY: ERR

SHEET TITLE:  
**LIGHTING PLAN**

SHEET NUMBER:

**E-101**

36 OF 38 SHEETS  
10/24/2025

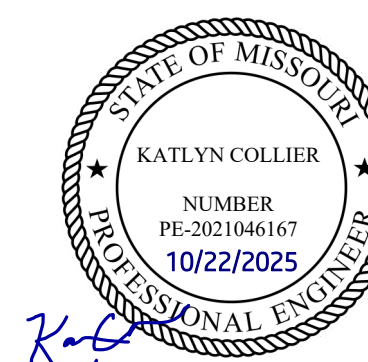


**SHEET KEYNOTES**

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"



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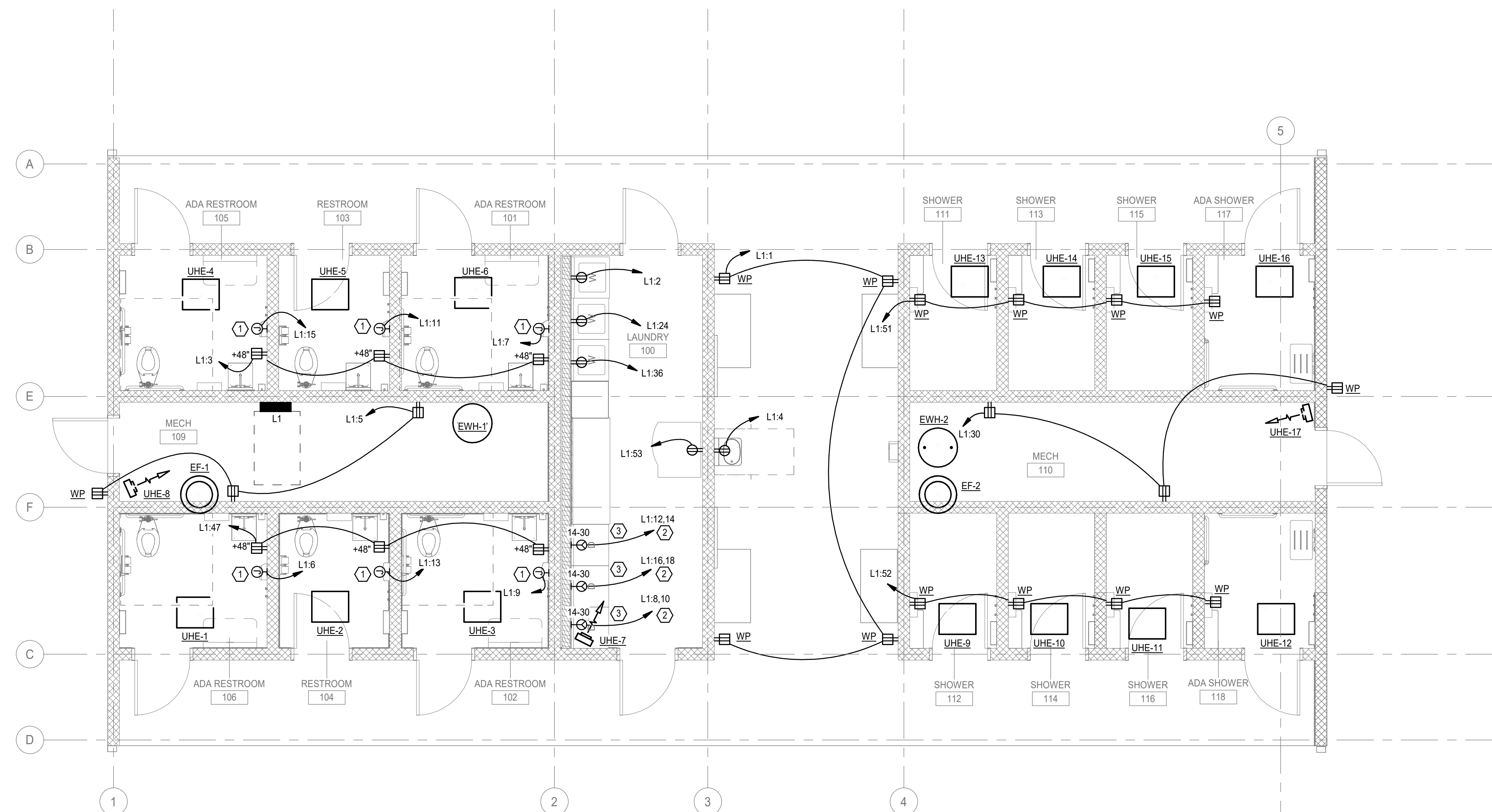
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/24/2025

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"

**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.

