



# WOODSIDE RIDGE CLUBHOUSE

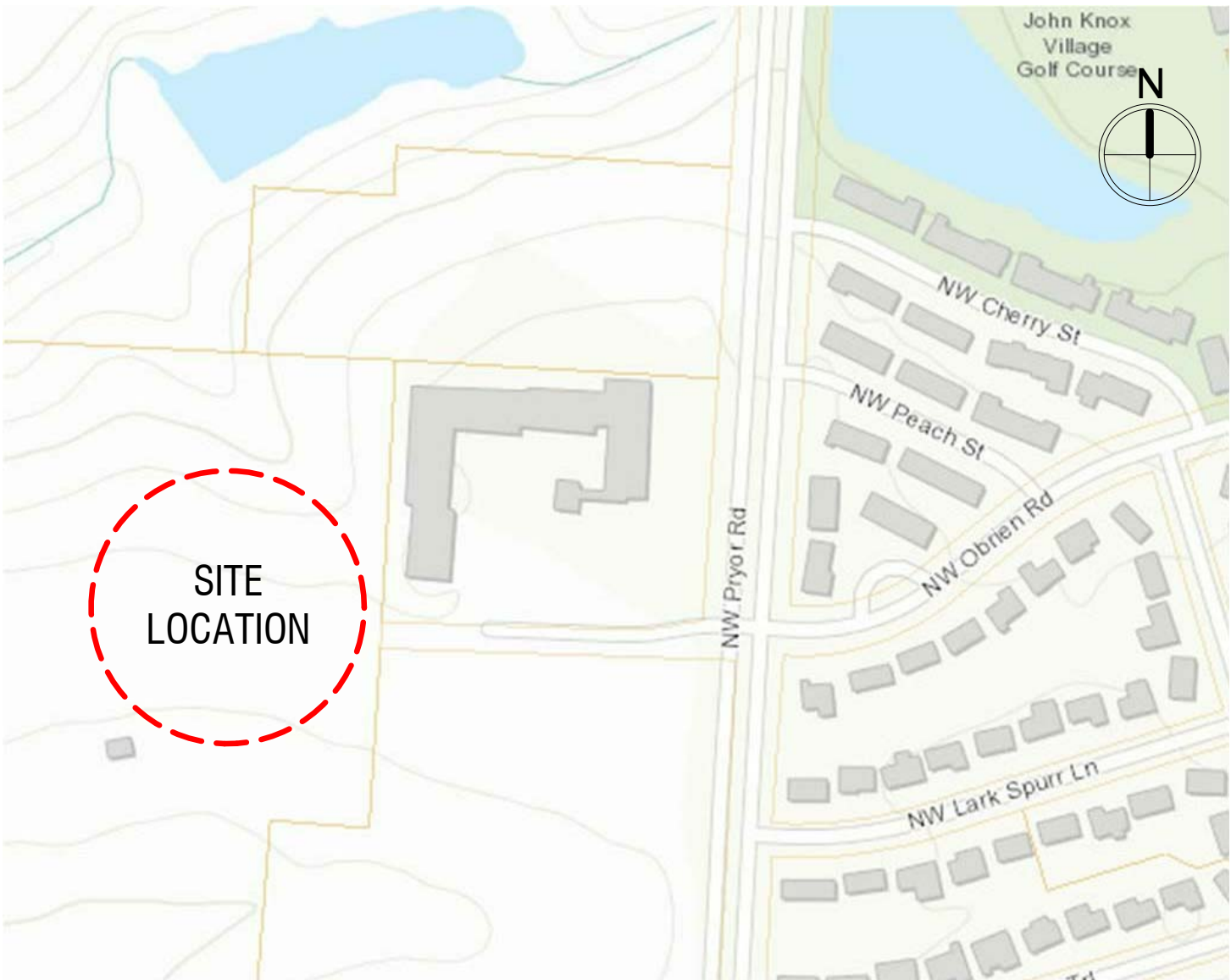


342 NW AMBERSHAM DR  
LEE'S SUMMIT, MISSOURI

PERMIT SET: MARCH 17, 2020  
REVISION # 1-CITY COMMENTS: MARCH 31, 2020



AERIAL VIEW



SITE MAP



ARCHITECT  
B+A ARCHITECTURE  
100 W 31ST STREET, SUITE 100  
KANSAS CITY, MO 64108  
PH: 816-753-6100

CIVIL ENGINEER  
OLSSON  
1301 BURLINGTON STREET, SUITE 100  
NORTH KANSAS CITY, MO 64116  
PH: 816-361-1177

STRUCTURAL ENGINEER  
PACKARD ENGINEERING  
10417 INDIANA AVE.  
KANSAS CITY, MO 64137  
PH: 816-767-7222

MEP ENGINEER  
PKMR ENGINEERS  
13300 W. 98TH STREET  
LENEXA, KS 66215  
PH: 913-312-0151

DEVELOPER  
SUMMIT HOMES  
120 SE 30TH STREET  
LEE'S SUMMIT, MO 64082  
PH: 816-246-6700

SEAL:



03.31.2020

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CODE INFORMATION

OCCUPANCY USE GROUP: A-2  
TYPE OF CONSTRUCTION: V-B

	REQUIRED/ALLOWED	PROVIDED
SQUARE FOOTAGE		
PER STORY	6,000 SQ.FT.	1,712 SQ.FT.
TOTAL BUILDING AREA	6,000 SQ.FT.	1,712 SQ.FT.
NUMBER OF STORY	1	1
BUILDING HEIGHT	40'	27'-5 1/4"
BUILDING ELEMENT FIRE RESISTANCE RATING		
PRIMARY STRUCTURAL FRAME	0 HR	0 HR
BEARING WALL - EXTERIOR	0 HR	0 HR
BEARING WALL - INTERIOR	0 HR	0 HR
NONBEARING WALL AND PARTITIONS - EXTERIOR	0 FOR X >= 30	0 HR
NONBEARING WALL AND PARTITIONS - INTERIOR	0 HR	0 HR
FLOOR CONSTRUCTION	0 HR	0 HR
ROOF CONSTRUCTION	0 HR	0 HR
FIRE PROTECTION AND RESISTANCE REQUIREMENTS		
FIRE BARRIERS - STAIR ENCLOSURES	N/A	N/A
FIRE PARTITIONS - DEMISING WALL	0 HR (IBC 708.3)	0HR
FIRE PARTITIONS - HOR. ASSEMBLIES	N/A	N/A
FIRE PARTITIONS - CORRIDOR WALLS	0 HR (IBC 1018.1 EX. 4)	0HR
FIRE PARTITIONS - AREA SEPARATIONS	N/A (IBC TABLE 508.4)	N/A
FIRE PROTECTION SYSTEM	AUTOMATIC SPRINKLER SYSTEM	N/A (IBC 903.2.1.2)
FIRE ALARM AND DETECTION	A MANUAL FIRE ALARM	N/A (IBC 907.2.1)
EGRESS		
OCCUPANT LOAD		
CLUBHOUSE	TYPE	SF/LOAD FACTOR      OCCUPANCY LOAD
	(1) ASSEMBLY	810/15                      54
	(2) STORAGE	237/300                      1
	(3) EXERCISE	212/50                        5
	TOTAL	60 (A)
ADDITIONAL OCCUPANT LOADS		
	TYPE	SF/LOAD FACTOR      OCCUPANCY LOAD
	(1) POOL	3,236/50                    65
	(2) POOL DECK	4,405/50                    88
	(3) PATIO / OUTDOOR	555 /15                     37
	TOTAL	190 (B)
TOTAL		250 (A+B)
EGRESS WIDTH - STAIRS (IBC 1005.3)	N/A	N/A
EGRESS WIDTH - CLUBHOUSE (PER IBC 1005.3)	60 x 0.2" = 12.0" MIN.	72" (EXIT DOORS)
NUMBER OF EXITS - CLUBHOUSE	2 (PER IBC 1006.2.1)	2
EGRESS WIDTH - POOL DECK (PER IBC 1005.3)	190 x 0.2" = 38.0" MIN.	72" (EXIT DOORS)
NUMBER OF EXITS - POOL DECK	2 (PER IBC 1006.2.1)	2
MAX. TRAVEL DISTANCE TO EXIT	200' MAX. (PER IBC 1017.2)	40'-3"
ROOF COVER CLASSIFICATION	B	B
ACCESSIBILITY		
ACCESSIBILITY WHEELCHAIR SPACES	N/A (PER 1108.2.2.1)	N/A
PLUMBING FIXTURES	TYPE - REQUIRED	MALE                      FEMALE
	WATER CLOSET	(250/2)/75=1.67 (-2)      (250/2)/75=1.67 (-2)
	LAVATORIES	250/200=1.25 (-2)
	SERVICE SINK	1
	WATER FOUNTAIN	1 PER 500
TOTAL	TYPE	REQUIRED                  PROVIDED
	WATER CLOSET	4                              4
	LAVATORIES	2                              5
	URINAL	N/A                          1
	SERVICE SINK	1                              1
	WATER FOUNTAIN	1                              1

APPLICABLE BUILDING CODES

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRIC CODE
- ICC/ANSI A117.1-2017

DESIGN LOADS

- ROOF LIVE LOAD: 20PSF MIN.
- ROOF SNOW LOAD: 20PSF (GROUND SNOW LOAD)
- WIND: 55MPH, EXP. 5

SAFETY NOTES:

1. 2018 IFC 1004.3- POSTING OF OCCUPANT LOAD. EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.

- OCCUPANT LOAD SIGNS:
  - GREAT ROOM: 54
  - EXERCISE ROOM: 5
  - POOL AREA: 190

2. 2018 IFC 407.3- IDENTIFICATION. INDIVIDUAL CONTAINERS OF HAZARDOUS MATERIALS, CARTONS OR PACKAGES SHALL BE MARKED OR LABELED IN ACCORDANCE WITH APPLICABLE FEDERAL REGULATIONS. BUILDINGS, ROOMS AND SPACES CONTAINING HAZARDOUS MATERIALS SHALL BE IDENTIFIED BY HAZARD WARNING SIGNS IN ACCORDANCE WITH SECTION 5003.5.

- LABEL POOL EQUIPMENT, CHEMICALS ARE STORED ON SITE.

1 FIRE EXIT PLAN

3/32" = 1'-0"

2 AREA & OCCUPANT LOAD DIAGRAM

3/32" = 1'-0"

3 ADA GUIDELINES

3/8" = 1'-0"

4 SITE PLAN

3/64" = 1'-0"

LEGEND

- ASSEMBLY: 810 SQ.FT. OR 54 OCC. LOAD
- EXERCISE: 212 SQ.FT. OR 5 OCC. LOAD
- STORAGE: 237 SQ.FT. OR 1 OCC. LOAD



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KANSAS CITY, MO 64108  
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21021 OAK DRIVE  
BELTON, MO 64012  
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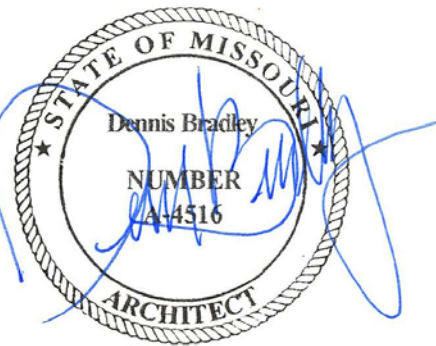
MEP ENGINEER  
PKMR ENGINEERS  
13300 W 98TH STREET  
LENEXA, KS 66215  
PH: 913-312-0151

LANDSCAPE ARCHITECT  
JASON MEIER  
15245 METCALF AVE  
OVERLAND PARK, KS 66223  
PH: 913-787-2817

WOODSIDE RIDGE CLUBHOUSE

342 NW AMBERSHAM DR  
LEE'S SUMMIT, MO 64081

SEAL



03.31.2020

DATE ISSUED: MARCH 17, 2020	DATE
NO.      REVISION	DATE
1      City Comments	03/31/2020

DESIGNED BY: FCR  
DRAWN BY: FCR  
CHECKED BY: TT/DMB

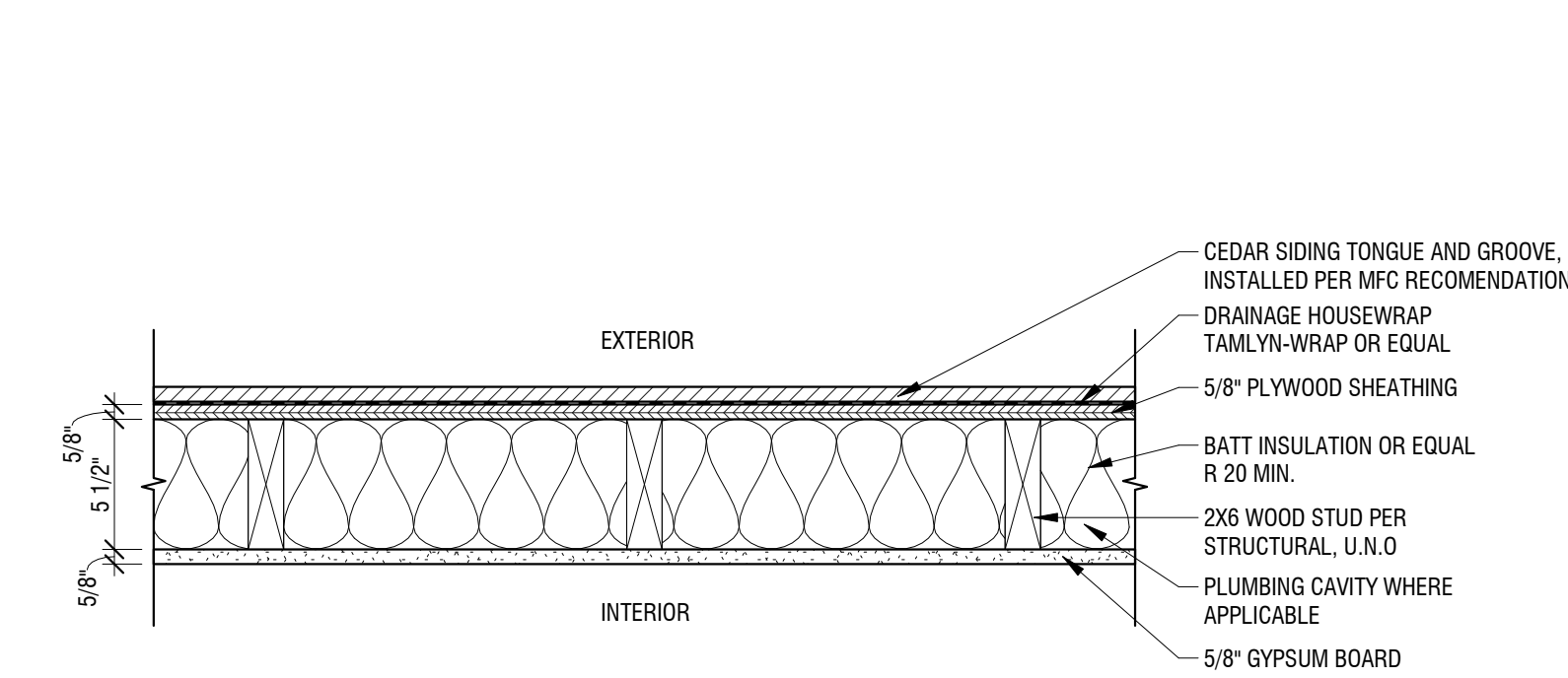
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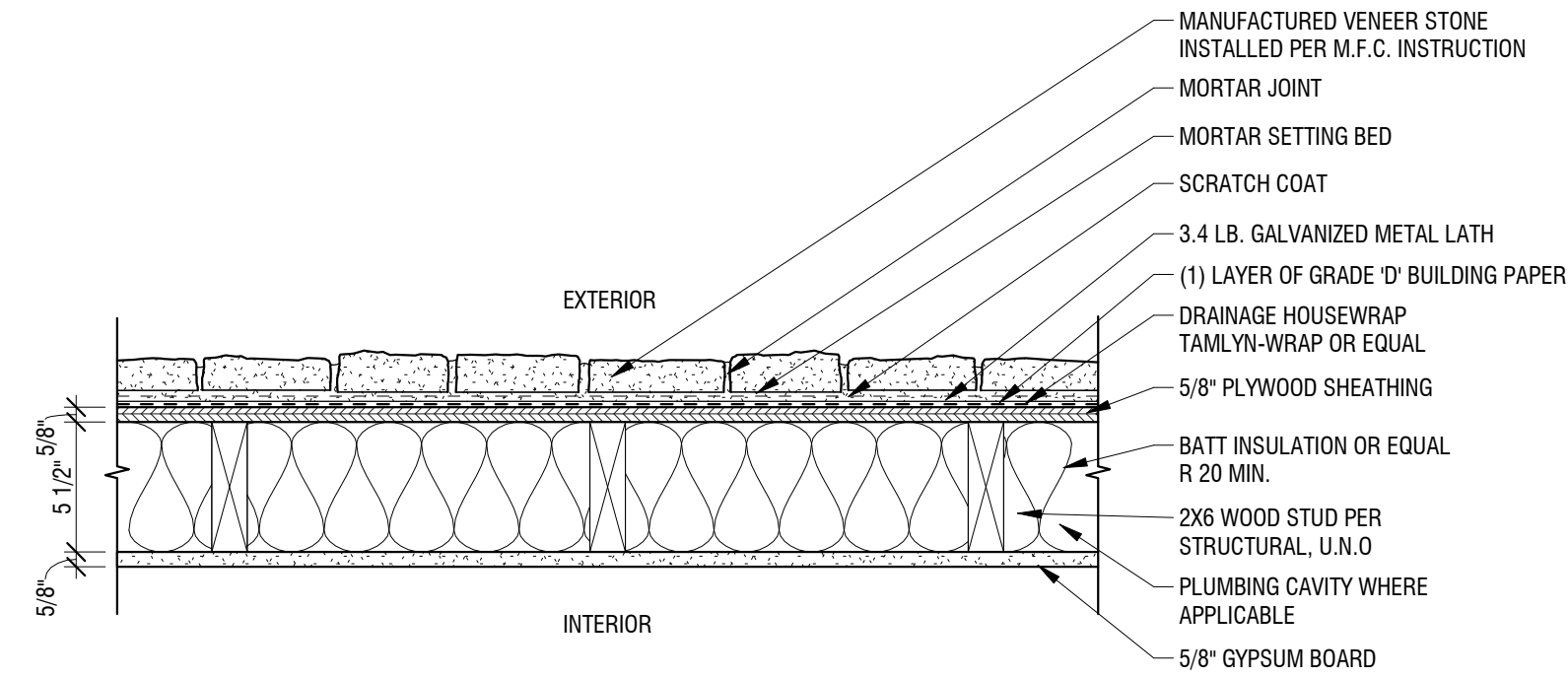
PROJECT INFORMATION

A001

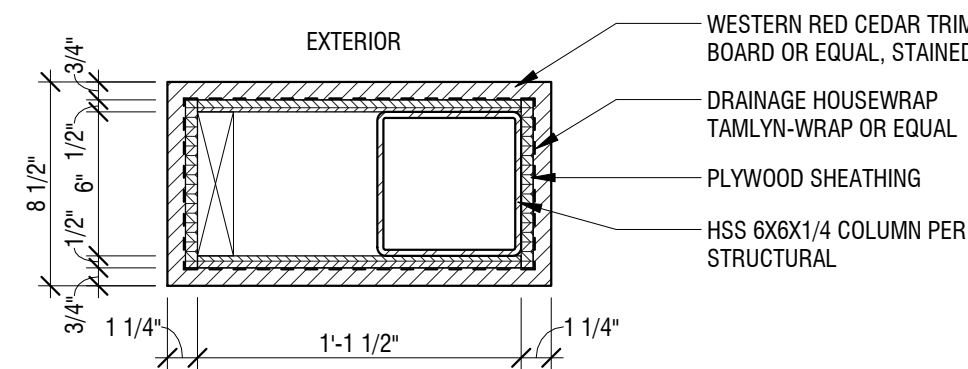




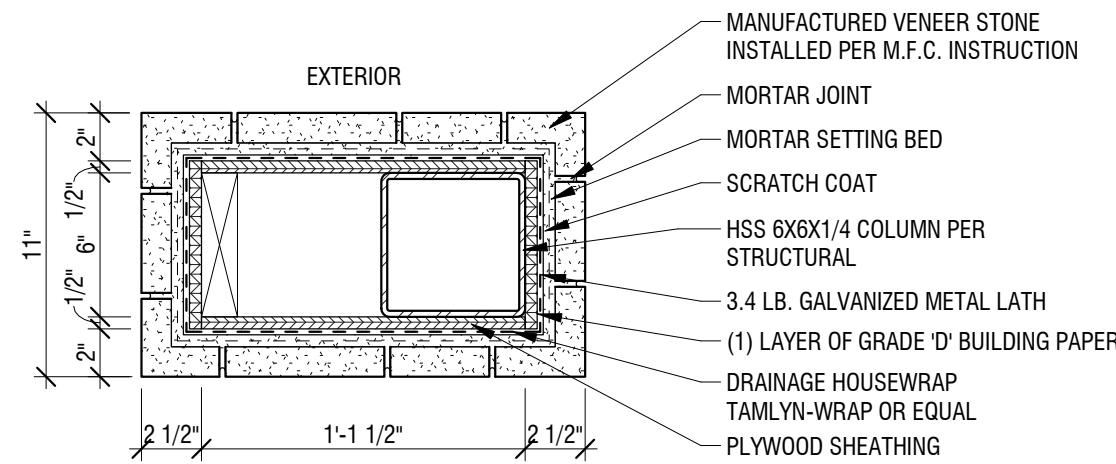
**1** WALL TYPE 'E1' - EXTERIOR WALL - CEDAR SIDING  
1 1/2" = 1'-0"



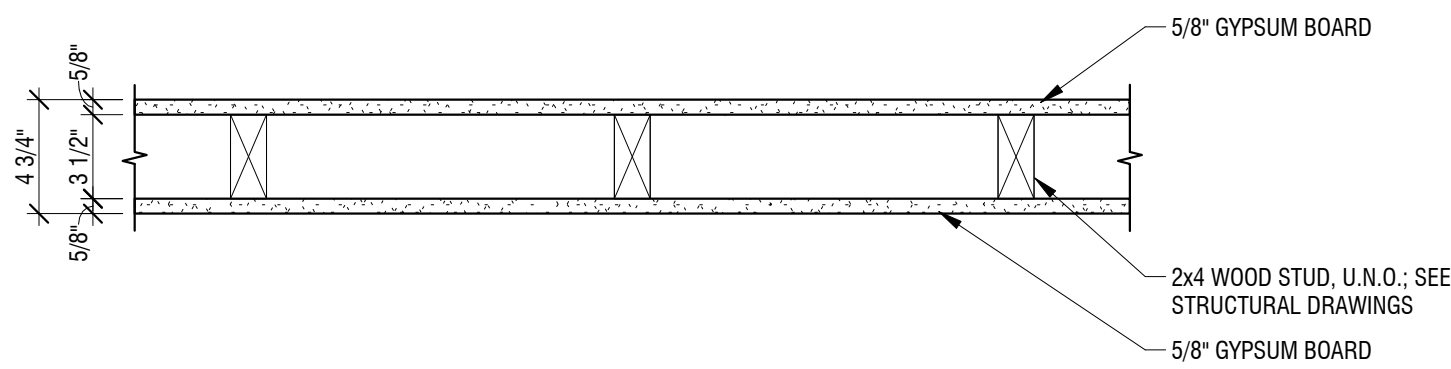
**2** WALL TYPE 'E2' - EXTERIOR WALL - STONE VENEER  
1 1/2" = 1'-0"



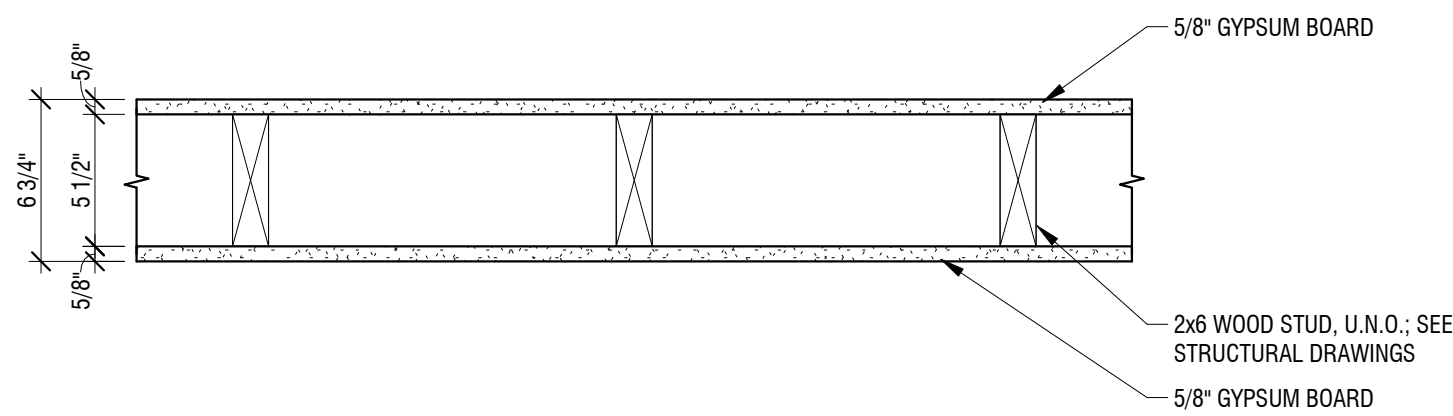
**3** WALL TYPE 'E3' - PATIO COLUMN WRAP  
1 1/2" = 1'-0"



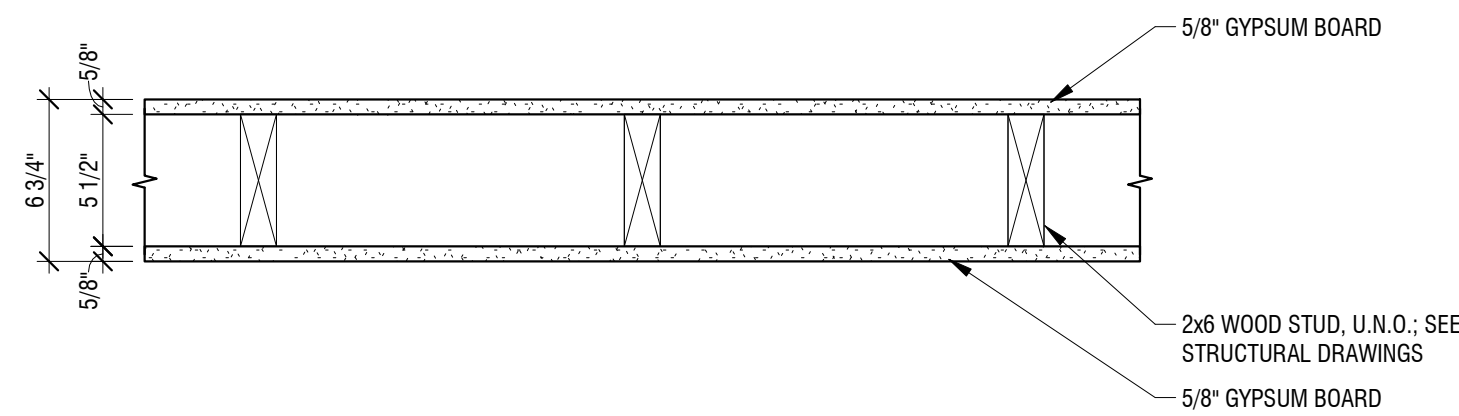
**4** WALL TYPE 'E3' - PATIO COLUMN BASE  
1 1/2" = 1'-0"



**5** WALL TYPE 'P1' - INTERIOR WALL 2X4 STUD - TYPICAL  
1 1/2" = 1'-0"



**6** WALL TYPE 'P2' - INTERIOR WALL 2X6 STUD - TYPICAL  
1 1/2" = 1'-0"



**7** WALL TYPE 'P3' - INTERIOR WALL 2X6 STUD - PLUMBING  
1 1/2" = 1'-0"

SEAL



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DRAWN BY: FCR  
CHECKED BY: TT/DMB

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WALL TYPES

**A002**



SPECIFICATIONS:

- A. GENERAL NOTES
- The Contractor shall not make any changes from these plans without the Owner's written approval prior to the start of the work.
  - The Contractor shall submit any price changes to the Owner for review and approval prior to making any changes in the work that would require a change in cost.
  - The Contractor shall be responsible for picking up permits required by City of Overland Park, Kansas.
  - The Contractor shall field verify all conditions and report any discrepancies or concerns to the Owner prior to starting construction.
  - All demolition materials and construction debris shall be the responsibility of each subcontractor and shall be disposed of in an dumpster provided by the General Contractor.
  - The Sub-Contractor shall be responsible for all concrete testing required in the specifications.
  - The Contractor shall field verify site conditions before starting construction. Re: Civil drawings
  - The Contractor shall verify the location of all site utilities shown with local utility companies. Utility lines damaged will be replaced at no cost to the owner.
  - All sidewalks, driveway aprons and parking paving on the street right-of-way shall conform to the public works requirements of City of Overland Park, Kansas
  - If any unforeseen hazardous materials not identified within these construction documents are encountered in the construction process, immediately notify the Owner and stop work at the area of concern and wait for further instruction.
  - The Contractor shall check all plans before pouring foundation or concrete slabs to verify that all utility lines, beam pockets, anchor bolts and/or any other embedded or cast in place items are properly located and in place.
- B. SITE CLEARING
- Project Conditions:
    - Remove trees, shrubs, grass, and other vegetation, improvements, or obstructions, as required to permit installation of new construction.
    - Completely remove stumps, roots, and other debris protruding through ground surface.
  - Disposal of Waste Materials:
    - Remove waste materials from Owner's property.
    - Burning is not permitted on Owner's property.
    - Transport removed materials to a City approved "dump site".
- C. EARTHWORK
- Rough Grading: Grade and rough contour site.
  - Excavation:
    - Bearing capacity 1,500 psi minimum
    - Excavate for building foundations.
    - Provide shoring where required.
  - Trenching.
    - Excavate trenches for utilities
    - Compacted bed and compacted fill over utilities.
  - Backfilling: Provide all backfilling and such grading around the new construction as is necessary to prevent water from standing or draining against the building.
  - Site Filling & Compacting:
    - Prepare sub-grade ready for sod, sidewalks and paving.
    - Provide compacted aggregate base course for paved area.
  - Finish Grading: Place and level topsoil materials prior to landscaping work.
  - Classification of Excavated Materials: Excavation materials for this project shall be considered firm soil. Removal of concealed foundation, rock excavation, landfill areas, are not included in this contract. If these items are discovered, the Owner will provide testing and engineering to resolve this issue.
  - Protections:
    - Protect all trees, shrubs, and/or other features remaining as a part of the final landscaping.
    - Protect above and below grade utilities which are to remain.
    - Grade excavation top perimeter to prevent surface water runoff into excavation.
  - Surplus Materials: Dispose of unsatisfactory excavated material and surplus satisfactory excavated materials away from the site.
  - Borrow: Obtain material required for fill or embankment in excess of that produced within the grading limits of the Work from borrow areas selected and paid for by the Contractor and approved by the Owner's representative.
  - Excavating for Structures: In excavating for footings and foundations, take care not to disturb bottom of excavation.
    - Excavate by hand tools to final grade just before concrete is placed;
    - Trim bottoms to required lines and grades to leave solid base to receive concrete.
  - Filling & Backfilling: Backfill excavations as promptly as progress of the Work permits, but not until completion of the following:
    - Acceptance of construction below finish grade including, where applicable, dampproofing and waterproofing.
    - Inspecting, testing, approving, and recording locations of underground utilities.
    - Removal of concrete formwork.
    - Removal of shoring and bracing, and backfilling of voids with satisfactory materials.
    - Removal of trash and debris.
    - Placement of horizontal bracing on horizontally supported walls or setting of first floor joists and decking.
    - Placement of foundation drainage system.
  - Expansion Joints: Provide pre-molded joint filler for expansion joints abutting concrete curbs, structures, walks and other fixed objects.
  - Concrete Finishing: After completion of floating and when excess moisture or surface sheen has disappeared, complete troweling and finish surface as follows:
    - Broom finish by drawing a fine-hair broom across concrete surface perpendicular to line of traffic. Repeat operation if required to provide a fine line texture acceptable to the Owner's representative.
    - On inclined slab surfaces, provide a coarse, non-slip finish by scoring surface with a stiff-bristled broom, perpendicular to line of traffic.
- D. SODDING
- Sod: Sod shall contain a good cover of living and growing grasses, must contain 80% good quality native blue grass and 90% free from all noxious weeds and annual grasses and strongly netted. Sod delivered to the job site must not be lifted more than 24 hours in advance of being laid.
- E. CONCRETE WORK (RE: STRUCTURAL NOTES)
- F. STRUCTURAL STEEL (RE: STRUCTURAL NOTES)

- G. ROUGH CARPENTRY
- Sizing, and Dimension: All dimension lumber and plywood shown on the Drawings or required to accomplish the work shall be of nominal dimensions unless shown otherwise on the Drawings.
  - Moisture Content: All dimension lumber and plywood shall be kiln dried having a moisture content of not more than 15% unless otherwise noted or hereinafter specified.
  - Framing Lumber:
    - Plates, blocking, bracing, nailers and general utility purposes: SPF, standard or better.
    - General framing, joists: SPF#2 or better.
    - Rim Joist - Rimbboard or approved equal
  - Plywood:
    - Floor Sheathing: 4'-0" x 8'-0" x 3/4" thick tongue & groove plywood, APA performance rated panels, interior grade C-D with exterior glue, or OSB - Contractor's option.
    - Exterior Soffits: Hardie board or approved equal
    - Pressure Treated Wood: For all plates in contact with the foundation.
    - Provide pressure treated wood (ground contact) for all wood in contact with concrete.
  - Rough Hardware:
    - Joist Hangers: As required and as manufactured by Kant-Sag, Simpson, Teco or approved equal.
    - Wood to Steel Beam Connectors: Power actuated fasteners; 5/32" diameter standard velocity fastening system.
    - Post Bases: Simpson or approved equal.
  - General Framing:
    - Install wood blocking and backing required for the work of other trades. Contractor to coordinate
    - Fabricate headers full thickness of framing using pieces of stud material set on edge with spacers, or solid lumber of equivalent size.
    - Provide double top plates. Lap members minimum 2 feet.
  - Bridging: Install wood cross bridging per truss manufacturer's instructions, and as required by current adopted IRC.
- H. INTERIOR ARCHITECTURAL WOODWORK
- Shelving: Provide wood pole and shelf at all closets unless noted otherwise, or aproved equal.
  - Trim: Case molding, base trim and stair trim in standard shapes, finish grade wood. Type: Colonial or Princeton as selected by owner.
  - Quality Standard:
    - Install woodwork to comply with AWI Section 1700.
    - Install all work plumb, level, true, and straight with no distortions. Shim as required with concealed shims. Install to a tolerance of 1/4" in 8'-0" for plumb and level and with no variations in flushness of adjoining surface.
    - Scribe and cut woodwork to fit adjoining work and refinish cut surfaces or repair damaged finish at cuts.
    - Anchor all work to blocking built in or directly attached to substrates. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing as required for a complete installation.
- I. THERMAL INSULATION
- Batt Insulation: in thickness as indicated on drawings. Comply with FH HH-I-521F, Type II, densities of not less than 0.5 lb per cubic ft. in manufacturer's standard lengths and width as required to coordinate with spaces to be insulated. Provide units with fire rating of 25 per ASTM E84 as manufactured by Certain-Teed Products Corp., Owens Corning Fiberglass Corp., or approved equal.
  - Installation:
    - Extend insulation full thickness as shown over entire area to be insulated. Cut and fit tightly around obstructions, and fill voids with insulation. Remove projections which interfere with placement.
    - Apply a single layer of insulation or required thickness, unless otherwise shown or required to make up total thickness.
  - Ceiling/ Roof Insulation: Fiberglass Batt Insulation: R-38 or better
  - Wall Insulation: R-20 or better
  - Comply with current adopted IECC
- J. STANDING SEAM METAL ROOF
- Standing Seam System:
    - Conform to UL 790 "Class A Rating" and ASTM's tests to minimize Air and Moisture penetration.
    - Berridge Tee-Panel, Berridge Manufacturing Co., or approved equal
    - Color to be selected
  - Edge Trims & Flashing: approved/recommended by MFG.
  - Installation:
    - Apply single layer of # 30 (or equal) felt underlayment over solid sheathing. Apply additional layers when recommended by installation requirements from MFG.
    - Install roofing prior to installation of guttering.
- K. JOINT SEALERS
- Applications:
    - Where exterior paving abuts vertical structures.
    - Exterior building wall joints including at windows, louvers, and exterior doors.
    - Flashing joints.
    - All joints between dissimilar materials.
  - General:
    - Prime or seal the joint surfaces wherever shown or recommended by the sealant manufacturer.
    - Install sealant to depths as recommended by the sealant manufacturer.
    - Set all flashings, thresholds, sills and similar items in full bed of sealant.
  - Exterior & Interior Horizontal Joints: Where joints of surfaces are subject to traffic, use two-part polyurethane based, elastomeric sealant as follows:
    - Self leveling, complying with ASTM C9820-79, grade P, class 25, "Vulkem 45", one-part.
  - Interior Joints: Manufacturer's standard, one-part, no sag, mildew resistant, acrylic emulsion sealant complying with ASTM C 834.
  - Joint Fillers: provide resilient and non-extruding type pre-molded bituminous impregnated fiberboard where interior and exterior concrete slabs meet walls and similar isolation joints.
  - Bond Breaker Tape: Polyethylene tape or other plastic tape as recommended by the sealant manufacturer.
- L. WOOD DOORS & FRAMES
- Interior doors shall be manufactured in accordance with NWWDA 1.S.1. 1-87, sec. 3.7.3 (B) and shall be faced with Craftsman Ceermont door facings as manufactured by Masonite in accordance with Basic Hardboard Product Standard ANSI/AHA 135.4-1982 (reaffirmed, 1988).

- Fitting:
    - Pre-fit door to provide maximum clearance of 1/8" at sides and top and 3/4" at bottom unless otherwise specified.
    - Within four days of fitting each door, seal affected area with at least two coats of water white lacquer.
- M. WINDOWS AND SLIDING PANELS
- Aluminum-Clad Wood Windows, Architectural Collection E-Series by Andersen or approved equal.
- \* Alternative Product: Aluminum-Clad Wood Windows, Architect Series Contemporary by Pella
- Additional Information: Window, headers, sills & jambs sheetrock returns.
- N. STORE-FRONT SYSTEM
- General requirements
  - Scope: This section includes all labor, material and equipment necessary to complete all work specified herein and as indicated within the construction documents. The work of this section includes, but is not limited to; the furnishing and installation of all aluminum fixed systems.
  - Materials
  - Aluminum Fixed System: MANKO 2450FS storefront and 150 series front set glazed, fixed system with a poured-in-place thermal break with color to be determined by architect.
  - Glazing: PPG solarban 60. All glazing stops to be snap-in type.
  - Installation:
    - Use only skilled tradesman for the installation of the aluminum fixed system and components specified within this section.
    - Bring any discrepancies between the project plans and field conditions to the attention of the General Contractor prior to the commencement of any work in the area in question.
    - Erect the aluminum fixed system and components square and true in strict accordance with the manufacturer's published installation instructions. The installer is to furnish adequate anchoring to maintain position and integrity of the fixed system when subjected to normal building movement and the specified wind load.
    - Furnish and apply sealants in accordance with the manufacturer's published installation instructions
- O. GYPSUM DRYWALL
- Exposed Gypsum Drywall:
    - Thickness of 1/2" where stud or rafter spacing is 16"; 5/8" where stud or rater spacing exceeds 16".
    - Sheet size to be maximum length available which will minimize end joints.
    - Stapling: Stapling of trim accessories will not be permitted.
  - Plastic Edge Trim: Plastic edge trim will not be permitted.
  - Installation:
    - Stagger the boards so that corners of any four boards will not meet at a common point except in vertical corners.
    - Install the gypsum wallboard to studs at right angles, making end joints, where required, over framing or furring members.
    - Install ceiling drywall boards in the direction and manner which will minimize the number of end butt joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at least 1'-0".
  - Ceilings: Spray texture ceiling surfaces with medium texture popcorn finish. Paint or as approved by owner.
- P. PAINTING
- Preparation: Wood Surfaces: Clean wood surfaces to be painted of all dirt, oil, or other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sand smooth those finished surfaces exposed to view, and dust off.
  - Application:
    - Provide the best quality grade of the various types of coating as regularly manufactured by acceptable paint manufacturers, i.e., Sherwin-Williams Paint Company or approved equal.
    - Sand and dust between coats to remove defects visible to the unaided eye from a distance of five feet.
    - Allow sufficient drying time between coats.
    - Where spray application is used, apply each coat to provide the hiding equivalent of brush oats.
    - Do not double back with spray equipment to build up film thickness of two coats in one pass.
  - Gypsum Drywall Systems (Walls): two (2) coats interior latex.
- P. CARPET TILE
- Carpet Tile flooring in Flexible Room and Storage Closet.
  - Manufacturer: Patcraft or approved equal.
  - Style: Clean Lines Modular (New Ground Collection)
  - Size: 24" x 24"
  - Color: Ellation 00522
  - Product Total Thickness: 0.221 in.
  - Primary Backing: Non-Woven Synthetic / Secondary Backing: EcoWorx Tile
  - Refer to Installation Guidelines by Manufacturer.
- Q. CERAMIC/PORCELAIN TILE
- General requirements
  - Scope: This section includes all labor, material and equipment necessary to complete all work specified herein and as indicated within the construction documents. The work of this section includes, but is not limited to, the following areas: floors, walls, shower walls and floors, countertops, decks and balconies, patios and walkways.
  - Quality Assurance: All workmanship and material shall be in conformance with applicable portions of ANSI Specifications and Standards and Handbook for Ceramic Tile Installation by the Tile Council of America, current edition.
  - Materials
  - Title: Refer to the construction documents, see plans, finish schedule and interior elevations for areas receiving tile.
  - Tile Backer Board: GEORGIA PACIFIC BUILDING PRODUCTS DensShield Tile Backer.
  - Membranes: Cleavage Membrane: 15# roofing felt or approved equal; Moisture Barrier: 15# roofing felt; Waterproof Membrane: hot mopped felt, or approved equal.

- Mortar Bed: CUSTOM BUILDING PRODUCTS Custom-Float Bedding Mortar mixed with water and Acrylic Mortar Admix. Metal lath - 2.5 lbs/yard self furred expanded metal.
  - Tile Adhesives: CUSTOM BUILDING PRODUCTS Master-Blend mixed with Custom-Flex latex.
  - Grout: CUSTOM BUILDING PRODUCTS Polyblend Sanded Colored Tile Grout - for joints 1/8" - 1/2". All grout colors shall be selected by the Owner.
  - Elastomeric Joint Caulk: All joints between floors and walls and at all joints between tile and dissimilar materials. CUSTOM BUILDING PRODUCTS Polyblend Ceramic Tile Caulk. Texture and color shall match adjacent grout.
  - Tile Sealer: as recommended by CUSTOM BUILDING PRODUCTS and approved by Owner. Apply sealer per manufacturer's specifications.
  - Preformed Shower Recesses: NOBLE Niches & Curbs #301 Square Niche, install per locations shown within the construction drawings.
- Installation
- Examine surfaces which are to receive tile or stone. Verify that surfaces to receive tile are stable, flat, firm, dry, clean and free of oil, waxes and curing compounds. Do not proceed with work until defects or conditions which would adversely affect quality, execution and permanence of finish work are corrected. All concrete substrates shall be at least 28 days old, completely cured and free of hydrostatic conditions and/or moisture problems. Protect adjacent surfaces prior to beginning tile work.
  - Installation Methods:
  - Over Wood Subfloor: Thin-set over glass mesh mortar units. Attach glass mesh mortar units to subfloor per manufacturer's recommendations.
  - Walls (Dry Locations): Thin-set over glass mesh mortar units.
  - Lay tile in grid pattern unless otherwise indicated on plans or directed by Architect. Terminate tile neatly at obstructions, edges and corners without disruption of pattern or joint alignment. Where tile cuts are necessary cuts shall be neat and scribed. Provide expansion joints, control joints, etc. as shown on plans and elsewhere as required.
  - Install grout in accordance with manufacturer's directions.
  - Clean and seal tile and grout in accordance with product manufacturer's recommendations.
- R. EXTERIOR SIDING
- Stone Veneer
  - ThinCut Natural Stone Veneer by Semco Outdoor or approved equal
  - Product selected: Weathered Fieldstone Webwall
  - Size: Stone size can vary from 6" to 10.5" in diameter.
  - Thickness: 3/4" - 1.5"
  - Use Manufactured Sill: 3" deep x 2" thick. Color: Light Cream.
  - Surface Preparation Summary
  - For Framed Exterior Wall Including Plywood paneling, Wall Sheathing, or Flush Metal Siding - Cover surface with a weather resistant barrier such as tar paper, be sure to lap joints 4" in a single fashion. In accordance with local building codes, install metal lath on top of the weather resistant barrier using galvanized nails or screws 6" on center vertically and 16" on center horizontally, penetrating the studs a minimum of 1". Stop the metal lath 1" from the finished edges. Be sure to wrap all corners overlapping the metal lath at least 4".
  - All natural stone should be applied according to local building codes. Water infiltration can result in damage caused from incorrect installation or the absence of such things as caulking, flashing, water proofing, guttering and down spouts. Stone should be installed at least 3" above grade level to prevent water from continually saturating behind the back of the stone and causing structural damage.
  - Refer to ThinCut Natural Stone Veneer Installation Guides by manufacturer.
- Cedar Siding
  - Acceptable manufacturer: Western Red Cedar or approved equal
  - Material: Western Red Cedar Tongue and Groove
  - Grade: Clear Heart or A Clear
  - Width: 6 inches (nominal)/ 5 inches exposed face: Thickness: 1 inch (nominal)
  - Installation per MFG recommendations
  - Refer to Exterior Finishing Schedule on sheets A200, A201 and A202 for finish.
- S. TOILET ACCESSORIES
- Scope: This section includes all labor, material and equipment necessary to complete all work specified herein and as indicated within the construction documents. This section of work includes, but is not limited to; tissue dispenser, coat hooks, grab bars, etc. See Toilet Accessory schedule sheet A400
  - Installation: Install per manufacturer's instructions
- T. PLUMBING (See sheet P101)
- U. CABINETS
- Kitchen Cabinets & Restroom Vanities:
    - Plywood interior. 11 inch adjustable shelves in uppers. Shelves in bases.
    - Manufacturer: Profile Cabinet or equal
    - See interior finish schedule and legend
  - FINISH HARDWARE: Bright brass. See Door Hardware Schedule for details
- W. ELECTRICAL (See sheet E 201)
- X. EXTERIOR ACCESSORIES:
- Scope: This section includes all labor, material and equipment necessary to complete all work specified herein and as indicated within the construction documents. This section of work includes, but is not limited to; eaves, wall vents, out door restroom signs, grill, bench, etc.
  - Installation: Install per manufacturer's instructions



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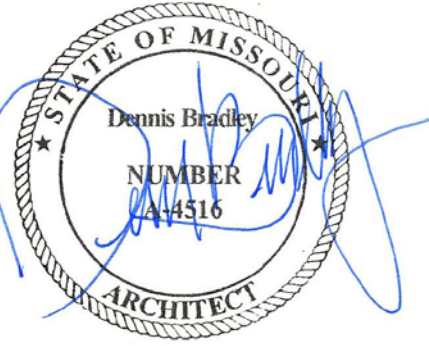
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PKMR ENGINEERS  
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WOODSIDE RIDGE CLUBHOUSE  
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LEES SUMMIT, MO 64081

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SPECIFICATIONS

A003



GENERAL NOTES

1. ALL PLAN DIMENSIONS GIVEN ARE TO FACE OF STUD OR MASONRY, U.N.O.
2. REFER TO STRUCTURAL DRAWINGS FOR FRAMING INFORMATION
3. ALL DOOR OPENINGS TO BE LOCATED 4" FROM NEAREST WALL CORNER, U.N.O.
4. SEE FINISH SCHEDULE ON SHEET A800 FOR MATERIAL INFORMATION
5. SEE DOOR/WINDOW SCHEDULE ON SHEET A800
6. SEE SHEET A400 FOR ENLARGED FLOOR PLANS

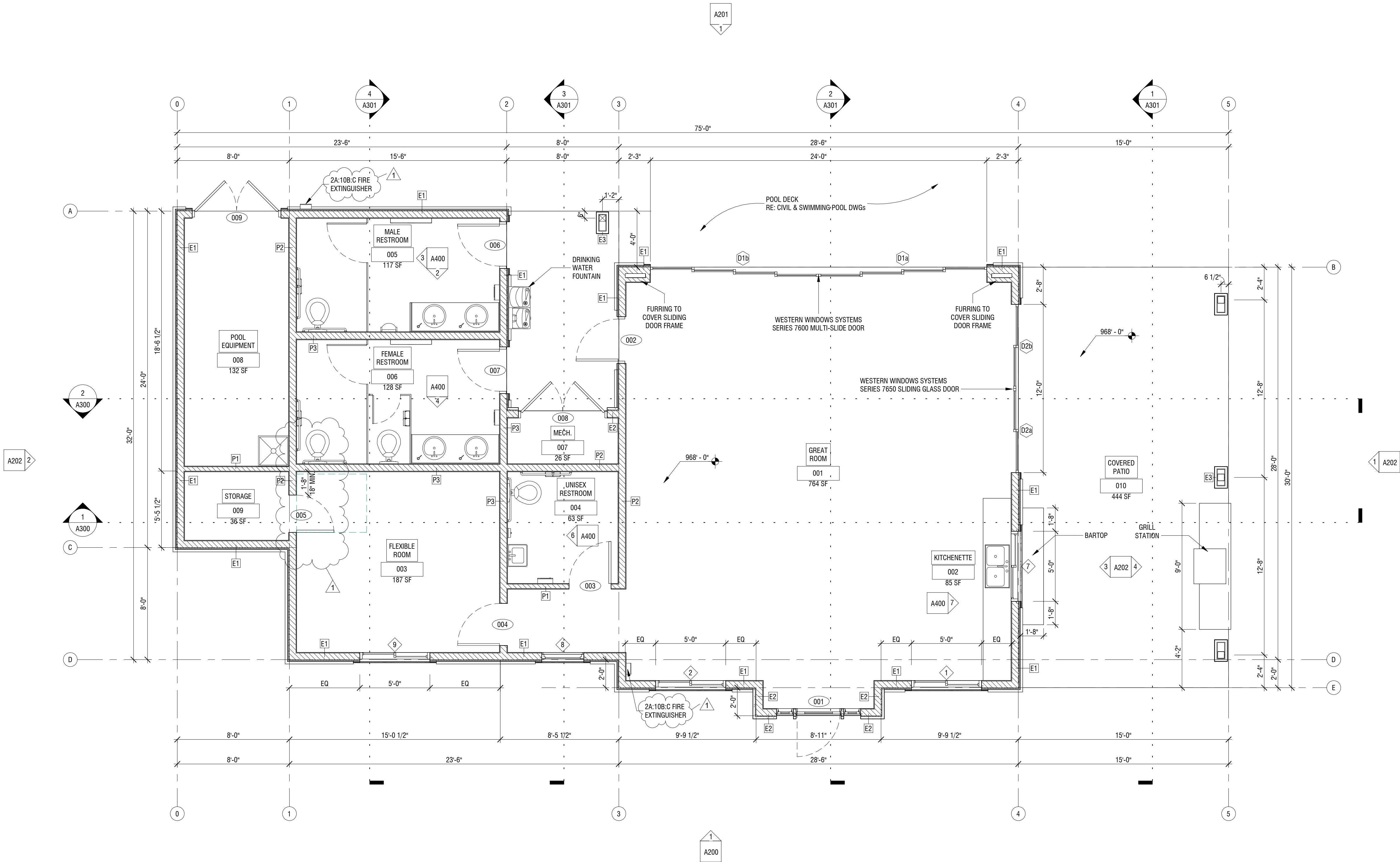
WALL TYPES

- E1 EXTERIOR WALL, 2X6 WOOD STUD, CEDAR SIDING FINISHING, INSULATED RE: DETAIL 1 / A002
- E2 EXTERIOR WALL, 2X6 WOOD STUD, STONE VENEER FINISHING, INSULATED RE: DETAIL 2 / A002
- E3 EXTERIOR COLUMN WRAP, HSS COLUMN, CEDAR FINISHING / STONE VENEER BASE RE: DETAILS 3 & 4 / A002
- P1 TYPICAL INTERIOR WALL, 2X4 WOOD STUD, GYP. BOARD FINISHING RE: DETAIL 5 / A002
- P2 TYPICAL INTERIOR WALL, 2X6 WOOD STUD, GYP. BOARD FINISHING RE: DETAIL 6 / A002
- P3 TYPICAL INTERIOR WALL, 2X8 WOOD STUD, GYP. BOARD FINISHING - PLUMBING RE: DETAIL 7 / A002

SAFETY NOTES:

1. 2018 IFC 905.5- CONSPICUOUS LOCATION, PORTABLE FIRE EXTINGUISHERS SHALL BE LOCATED IN CONSPICUOUS LOCATIONS WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE FOR USE. THESE LOCATIONS SHALL BE ALONG NORMAL PATHS OF TRAVEL, UNLESS THE FIRE CODE OFFICIAL DETERMINES THAT THE HAZARD POSED INDICATED THE NEED FOR PLACEMENT AWAY FROM NORMAL PATHS OF TRAVEL.

PROVIDE 1 2A108C FIRE EXTINGUISHER IN THE CLUBHOUSE AND 1 2A108C EXTINGUISHER ON THE EXTERIOR BY THE POOL EQUIPMENT ROOM.



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

- SECTION:  
1 SECTION IDENTIFICATION  
A101 SHEET DESIGNATION
- DETAIL:  
1 DETAIL IDENTIFICATION  
A101 SHEET DESIGNATION
- ELEVATION:  
1 ELEVATION IDENTIFICATION  
A101 SHEET DESIGNATION
- 101 DOOR DESIGNATION  
111 WALL TYPE DESIGNATION  
111 WINDOW/STOREFRONT DESIGNATION  
SPOT ELEVATION  
ELEVATION



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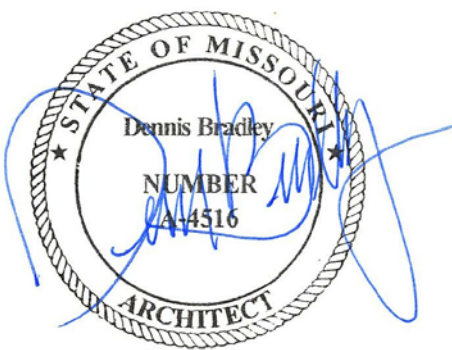
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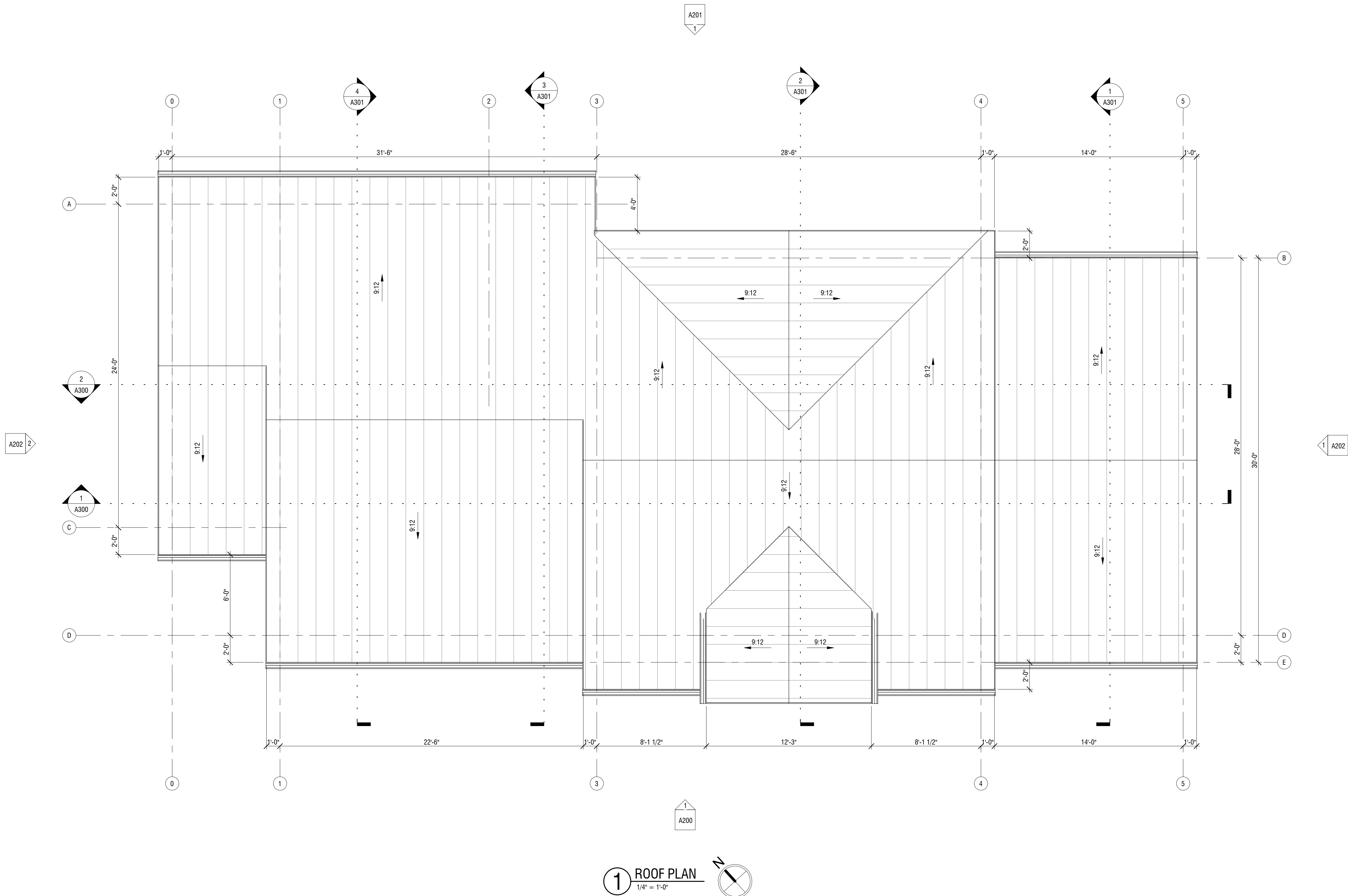
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FLOOR PLAN  
A100



GENERAL NOTES

1. REFER TO STRUCTURAL DRAWINGS FOR FRAMING INFORMATION
2. INSTALL ALL ROOF PENETRATIONS AND EQUIPMENT (IE, VENT PIPES, ROOF VENTILATORS) ON THE REAR SIDE OF THE ROOF, TO THE GREATEST EXTENT POSSIBLE
3. REFER TO PLUMBING DRAWINGS FOR ROOF DRAINS AND OVERFLOW DRAINS



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ROOF PLAN

A101



GENERAL NOTES

1. EXTERIOR COLORS ARE INDICATED BY MATERIAL MANUFACTURERS
2. ALL EXTERIOR MATERIAL, TRANSITION, SILLS AND HEADERS WHICH ARE NOT CALLED OUT, MATCH TO WALL, TRIM COLOR.
3. SPLIT SYSTEM W/ GROUND MOUNTED CONDENSORS TO BE SCREENED FROM VIEWS BY LANDSCAPING
4. INSTALL ALL ROOF PENETRATIONS AND EQUIPMENT (IE: VENT PIPES; ROOF VENTILATORS) ON THE REAR SIDE OF THE ROOF, TO THE GREATEST EXTENT POSSIBLE



STANDING SEAM  
METAL ROOF



PT-1: SW7048



STONE VENEER



CEDAR SIDING

EXTERIOR FINISHING SCHEDULE

NO.	MATERIAL/ITEMS	DESCRIPTION	COLOR/FINISH
1	STANDING SEAM METAL ROOF	BERRIDGE TEE-PANEL OR EQUAL	COLOR: AGED BRONZE
2	STONE VENEER	SEMCO OUTDOOR OR EQUAL	WEATHERED FIELDSTONE WEBWALL
3	CEDAR SIDING	TONGUE AND GROOVE, WESTERN RED CEDAR	TRANSPARENT STAIN NATURAL TONE
4	WALL/WINDOW TRIM	TRIM BOARD, WESTERN RED CEDAR	TRANSPARENT STAIN NATURAL TONE
5	FASCIA	JAMES HARDIE-HARDIETRIM BOARD	PT-1: URBANE BRONZE SW7048
6	SOFFIT	JAMES HARDIE-HARDIESOFFIT BOARD	VENTED SMOOTH - MATCH TO FASCIA COLOR
7	GUTTER	24 GA. STEEL	MATCH TO WINDOW FRAME COLOR
8	WINDOWS	ANDERSEN OR EQUAL/ ALUM. CLAD WOOD	METAL - MATTE, DARK BRONZE COLOR
9	EXTERIOR DOORS	METAL PANEL, PAINTED	MATCH TO WINDOW FRAME COLOR



SAFETY NOTES:

1. 2018 IFC 501.1- ADDRESS NUMBERS, NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. IN MULTI-TENANT COMMERCIAL BUILDING WHERE TENANTS HAVE MULTIPLE ENTRANCES LOCATED ON DIFFERENT SIDES OF THE BUILDING, EACH DOOR SHALL BE ADDRESSED. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABET LETTERS. NUMBERS SHALL BE A MINIMUM OF 4 INCHES (102 MM) HIGH WITH A MINIMUM STROKE WIDTH OF 0.5 INCH (12.7 MM).



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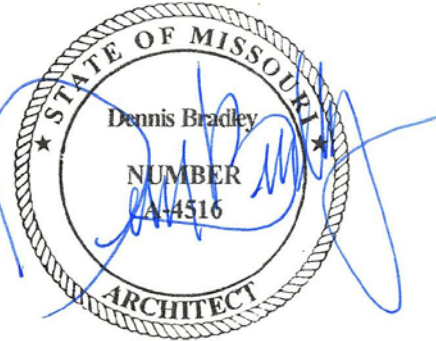
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PKMR ENGINEERS  
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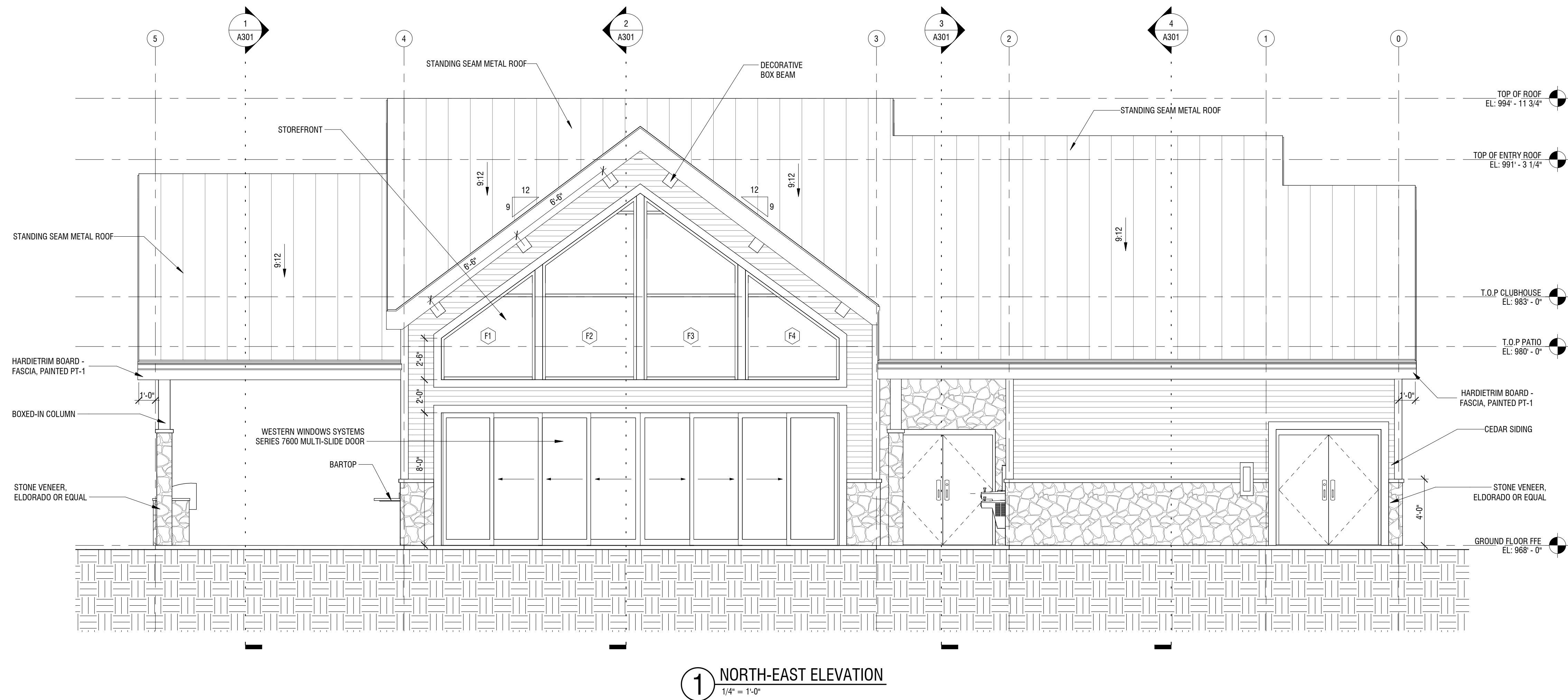
ELEVATIONS  
A200



1. EXTERIOR COLORS ARE INDICATED BY MATERIAL MANUFACTURERS
2. ALL EXTERIOR MATERIAL TRANSITION, SILLS AND HEADERS WHICH ARE NOT CALLED OUT, MATCH TO WALL TRIM COLOR.
3. SPLIT SYSTEM W/ GROUND MOUNTED CONDENSORS TO BE SCREENED FROM VIEWS BY LANDSCAPING
4. INSTALL ALL ROOF PENETRATIONS AND EQUIPMENT (IE; VENT PIPES; ROOF VENTILATORS) ON THE REAR SIDE OF THE ROOF, TO THE GREATEST EXTENT POSSIBLE



NO.	MATERIAL/ITEMS	DESCRIPTION	COLOR/FINISH
1	STANDING SEAM METAL ROOF	BERRIDGE TEE-PANEL OR EQUAL	COLOR: AGED BRONZE
2	STONE VENEER	SEMCO OUTDOOR OR EQUAL	WEATHERED FIELDSTONE WEBWALL
3	CEDAR SIDING	TONGUE AND GROOVE, WESTERN RED CEDAR	TRANSPARENT STAIN NATURAL TONE
4	WALL/WINDOW TRIM	TRIM BOARD, WESTERN RED CEDAR	TRANSPARENT STAIN NATURAL TONE
5	FASCIA	JAMES HARDIE-HARDIETRIM BOARD	PT-1: URBANE BRONZE SW7048
6	SOFFIT	JAMES HARDIE-HARDIESOFFIT BOARD	VENTED SMOOTH - MATCH TO FASCIA COLOR
7	GUTTER	24 GA. STEEL	MATCH TO WINDOW FRAME COLOR
8	WINDOWS	ANDERSEN OR EQUAL/ ALUM. CLAD WOOD	METAL - MATTE, DARK BRONZE COLOR
9	EXTERIOR DOORS	METAL PANEL, PAINTED	MATCH TO WINDOW FRAME COLOR



**CIVIL ENGINEER**  
**OLSSON**  
1001 BURLINGTON STREET, SUITE 100  
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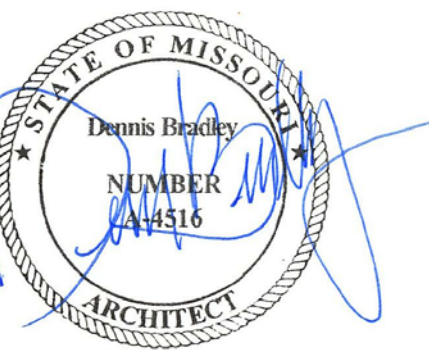
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SENIOR ENGINEER  
KMR ENGINEERS  
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## REAL



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## LEVATIONS

# A201



GENERAL NOTES

1. EXTERIOR COLORS ARE INDICATED BY MATERIAL MANUFACTURERS
2. ALL EXTERIOR MATERIAL, TRANSITION, SILLS AND HEADERS WHICH ARE NOT CALLED OUT, MATCH TO WALL, TRIM COLOR.
3. SPLIT SYSTEM W/ GROUND MOUNTED CONDENSORS TO BE SCREENED FROM VIEWS BY LANDSCAPING
4. INSTALL ALL ROOF PENETRATIONS AND EQUIPMENT (IE: VENT PIPES; ROOF VENTILATORS) ON THE REAR SIDE OF THE ROOF, TO THE GREATEST EXTENT POSSIBLE



STANDING SEAM  
METAL ROOF



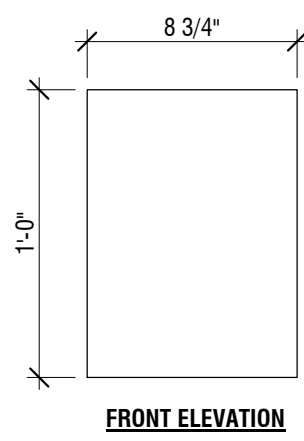
PT-1: SW7048



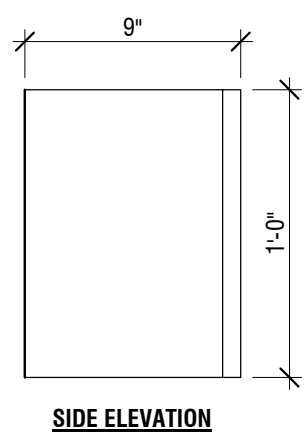
STONE VENEER



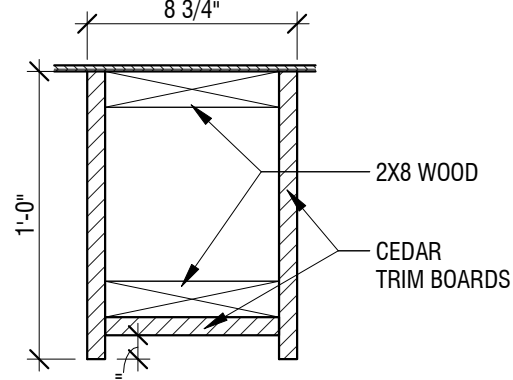
CEDAR SIDING



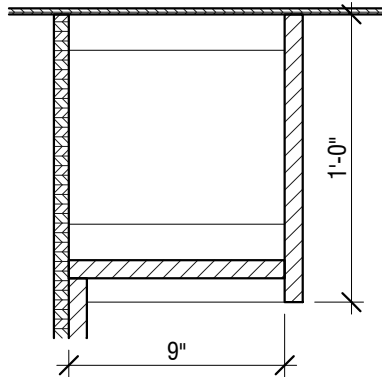
FRONT ELEVATION



SIDE ELEVATION



SECTION 1

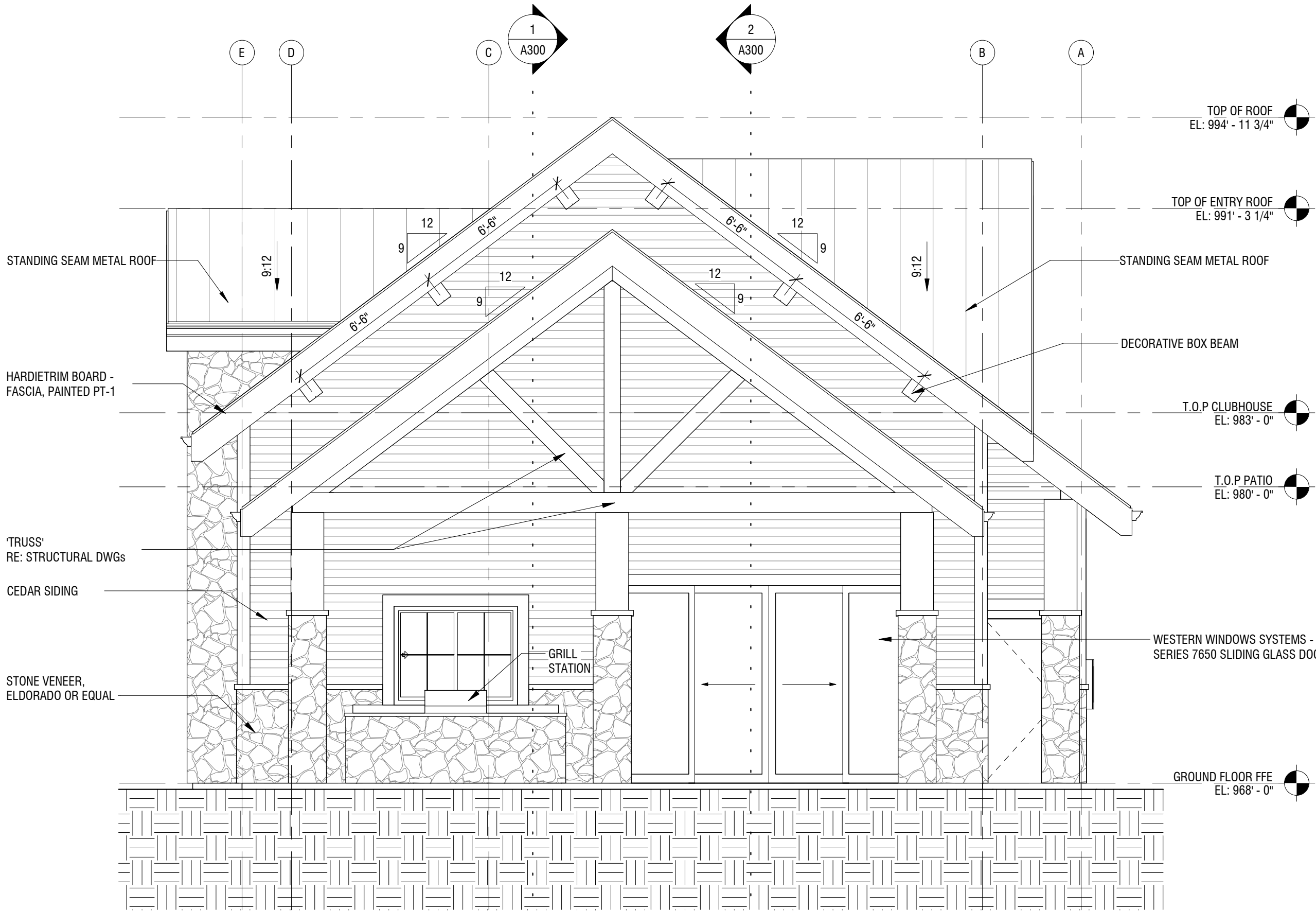


SECTION 2

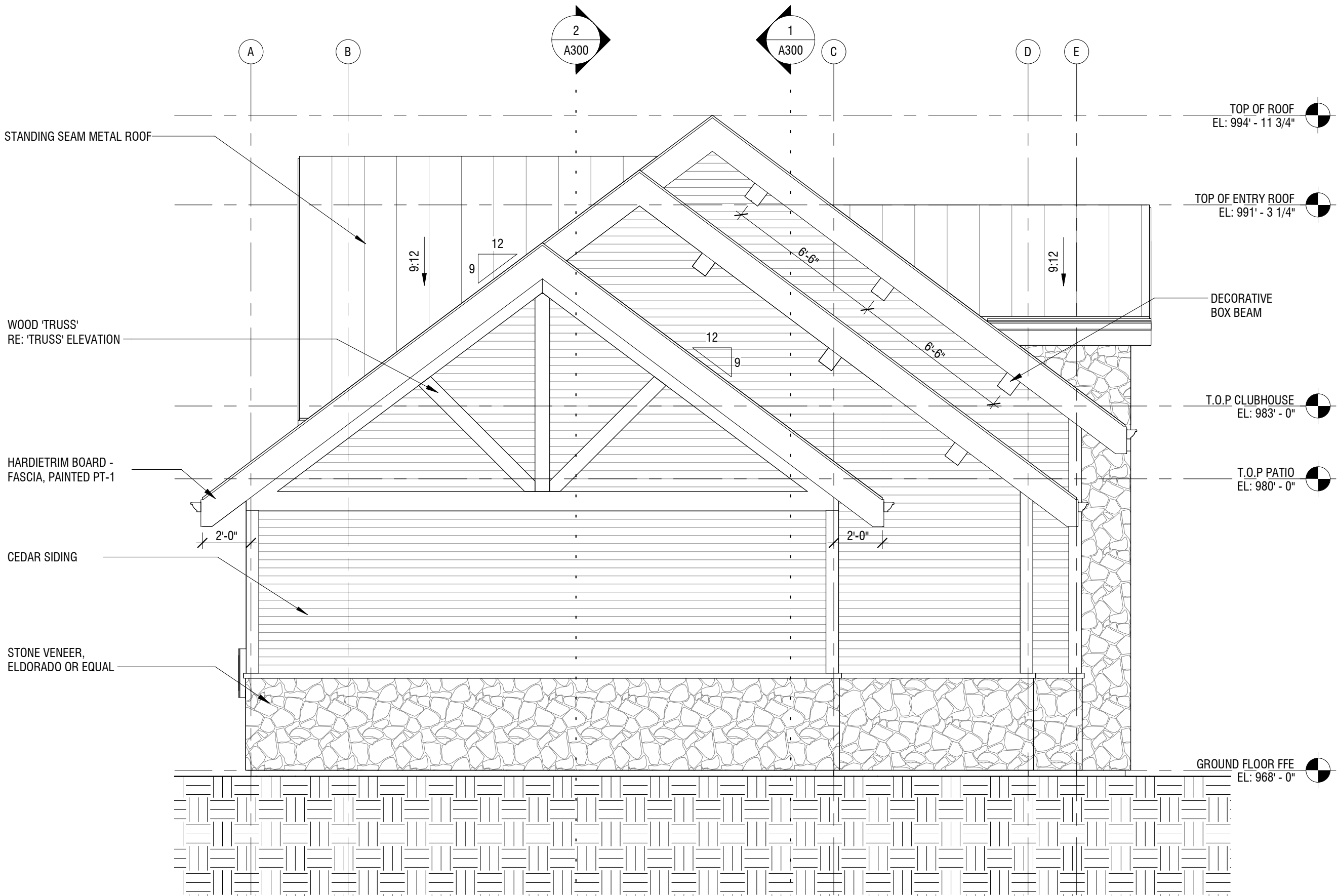
6 DECORATIVE BOX BEAM  
1 1/2" = 1'-0"

EXTERIOR FINISHING SCHEDULE

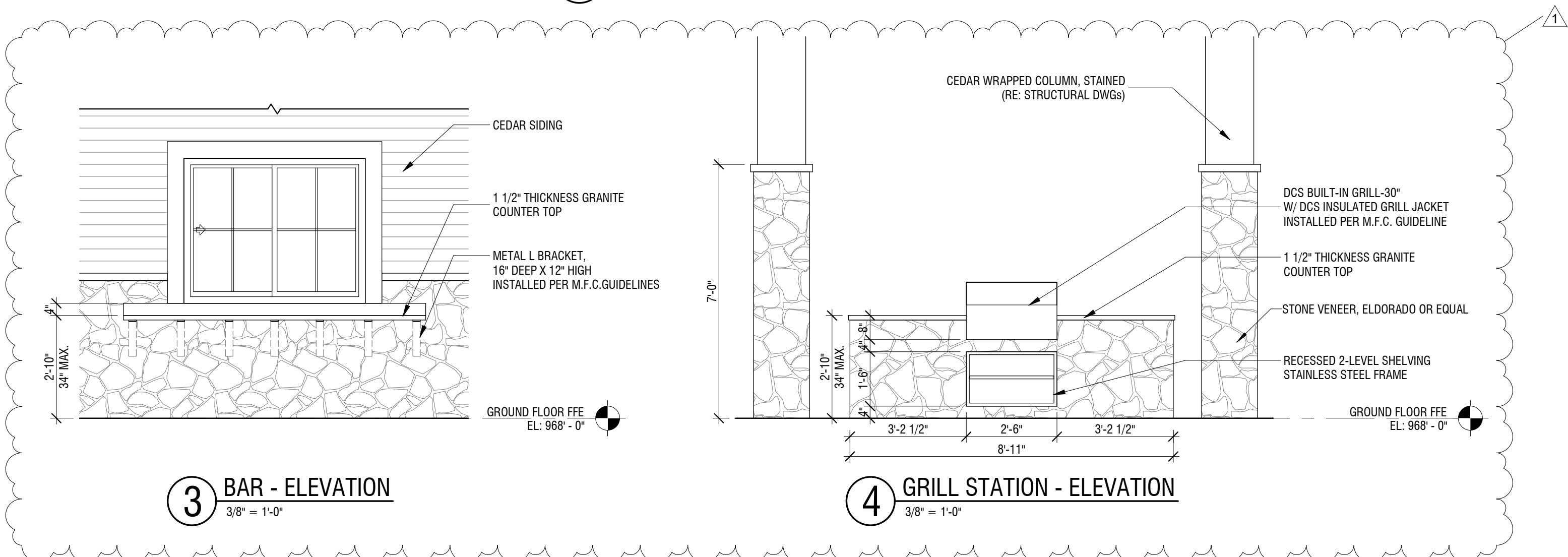
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1 SOUTH-EAST ELEVATION  
1/4" = 1'-0"

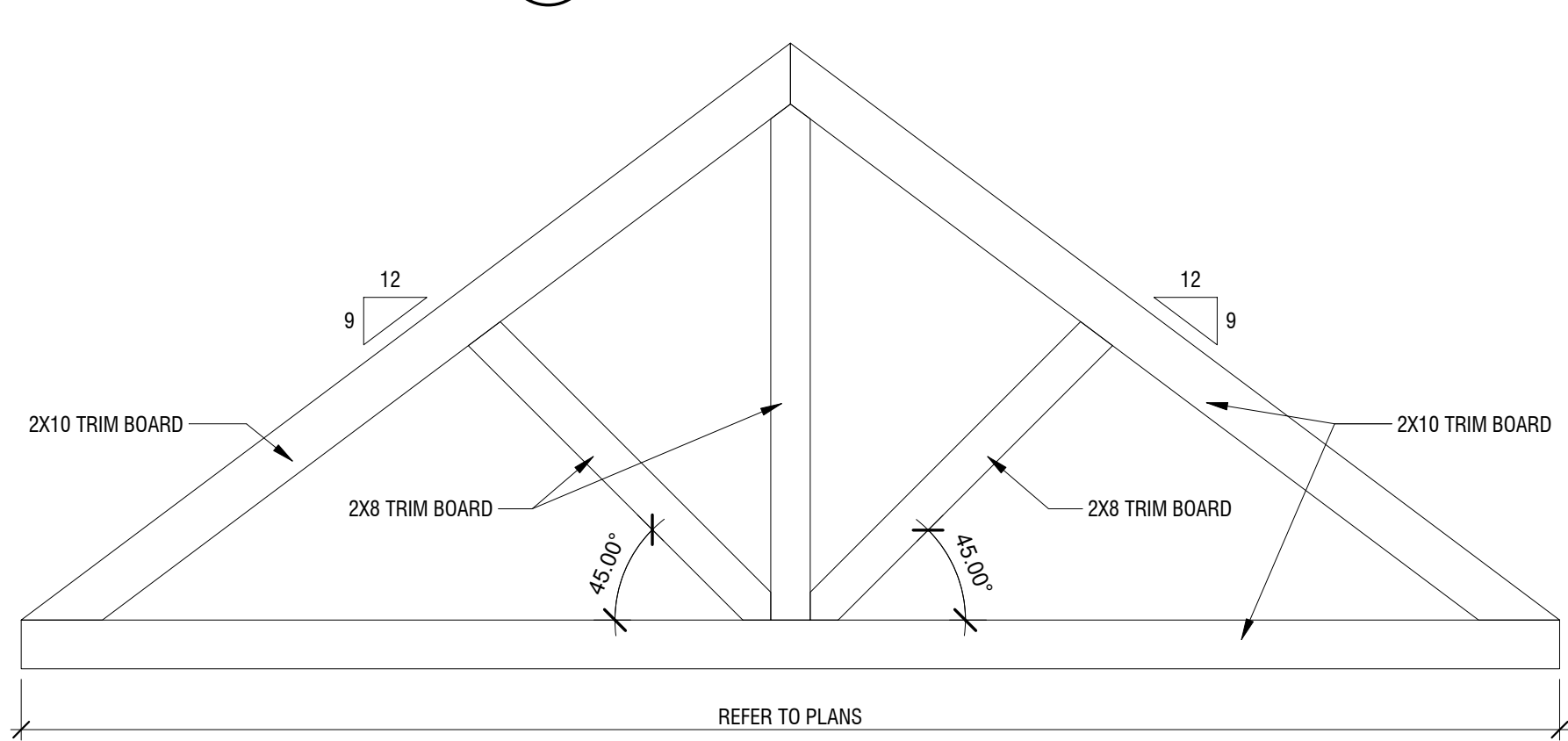


2 NORTH-WEST ELEVATION  
1/4" = 1'-0"



3 BAR - ELEVATION  
3/8" = 1'-0"

4 GRILL STATION - ELEVATION  
3/8" = 1'-0"



5 'TRUSS' - ELEVATION  
3/8" = 1'-0"



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PH: 816-753-6100

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OLSSON  
1301 BURLINGTON STREET, SUITE 100  
NORTH KANSAS CITY, MO 64116  
PH: 816-361-1177

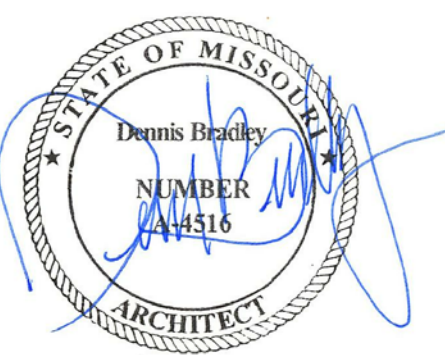
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PACKARD ENGINEERING  
21021 OAK DRIVE  
BELTON, MO 64012  
PH: 816-767-7222

MEP ENGINEER  
PKMR ENGINEERS  
13300 W 98TH STREET  
LENEXA, KS 66215  
PH: 913-312-0151

LANDSCAPE ARCHITECT  
JASON MEIER  
15245 METCALF AVE  
OVERLAND PARK, KS 66223  
PH: 913-787-2817

WOODSIDE RIDGE CLUBHOUSE  
342 NW AMBERSHAM DR  
LEE'S SUMMIT, MO 64081

SEAL



03.31.2020

NO.	REVISION	DATE
1	City Comments	03/31/2020

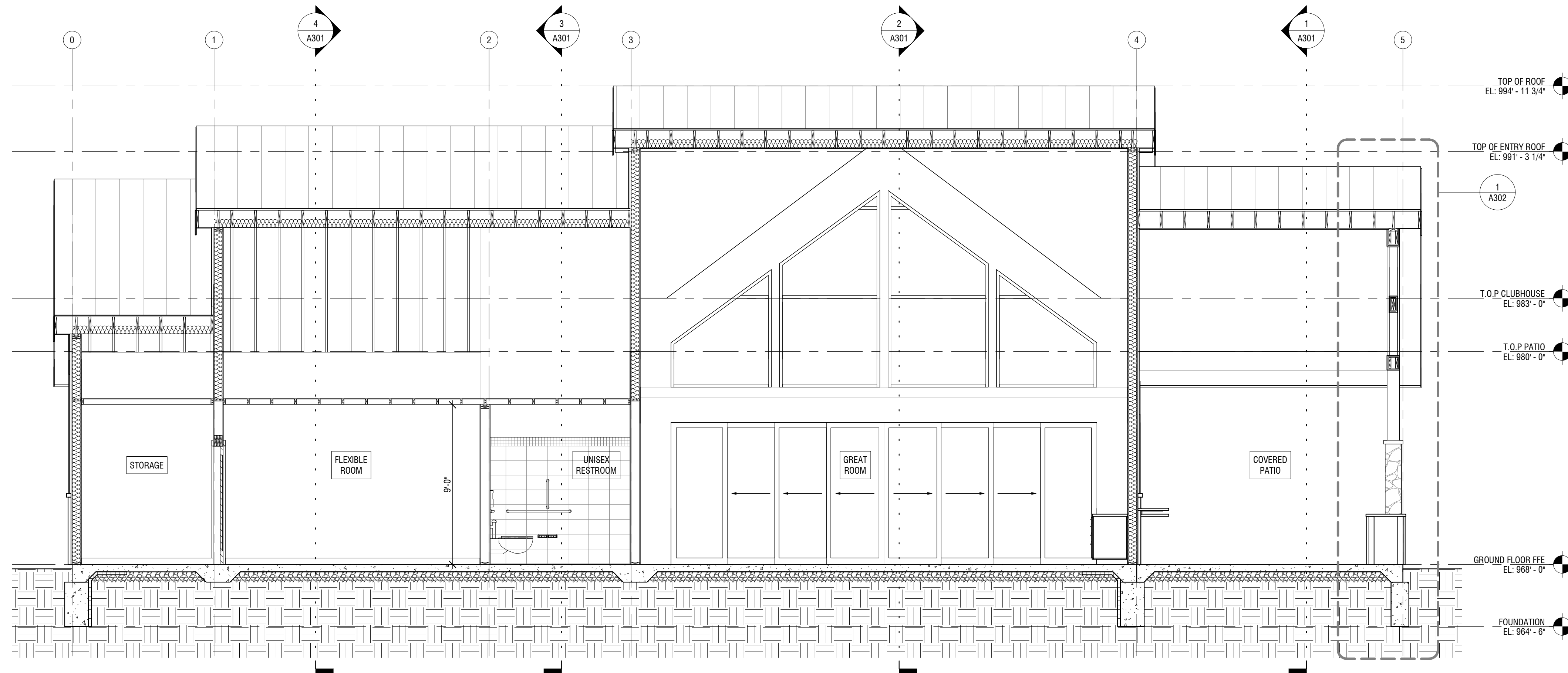
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DRAWN BY: FCR  
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ELEVATIONS  
A202





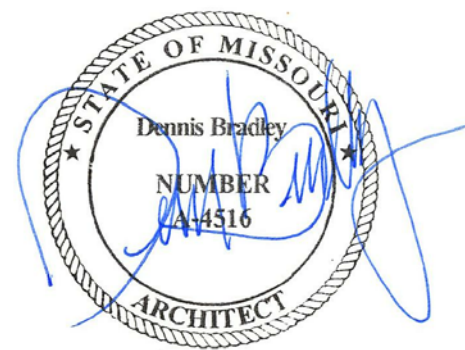
**1 BUILDING SECTION 1**  
1/4" = 1'-0"



**2 BUILDING SECTION 2**  
1/4" = 1'-0"

**WOODSIDE RIDGE CLUBHOUSE**  
342 NW AMBERSHAM DR  
LEE'S SUMMIT, MO 64081

SEAL



03.31.2020

DATE ISSUED: MARCH 17, 2020		
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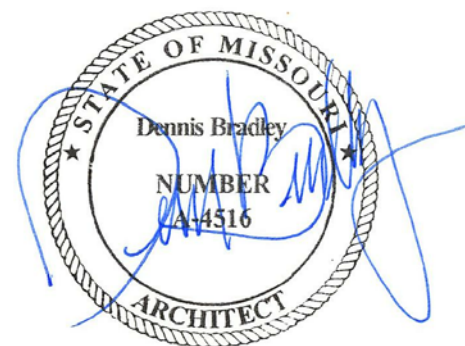
BUILDING SECTIONS  
**A300**



# WOODSIDE RIDGE CLUBHOUSE

342 NW AMBERSHAM DR  
LEE'S SUMMIT, MO 64081

SEAL



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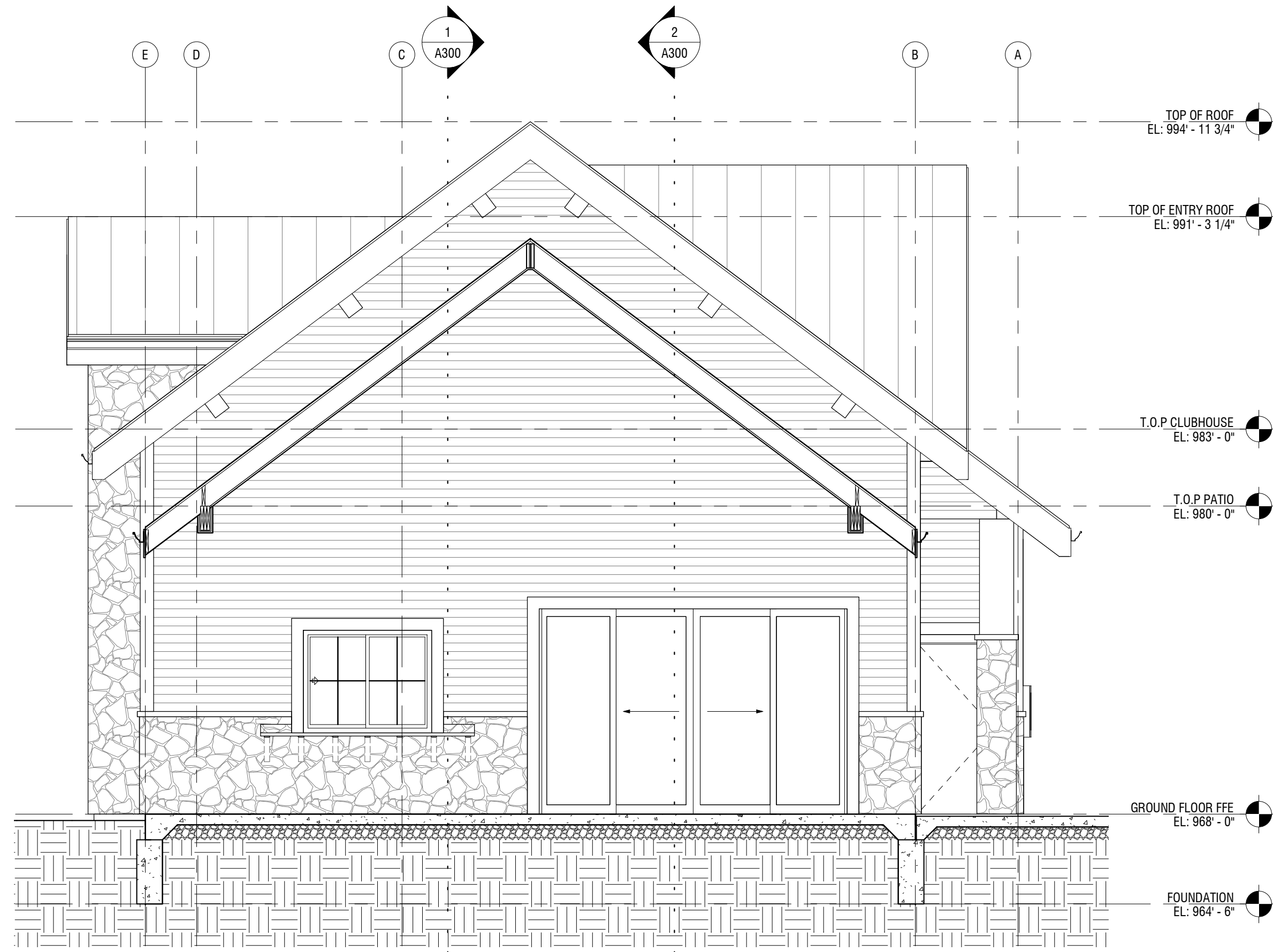
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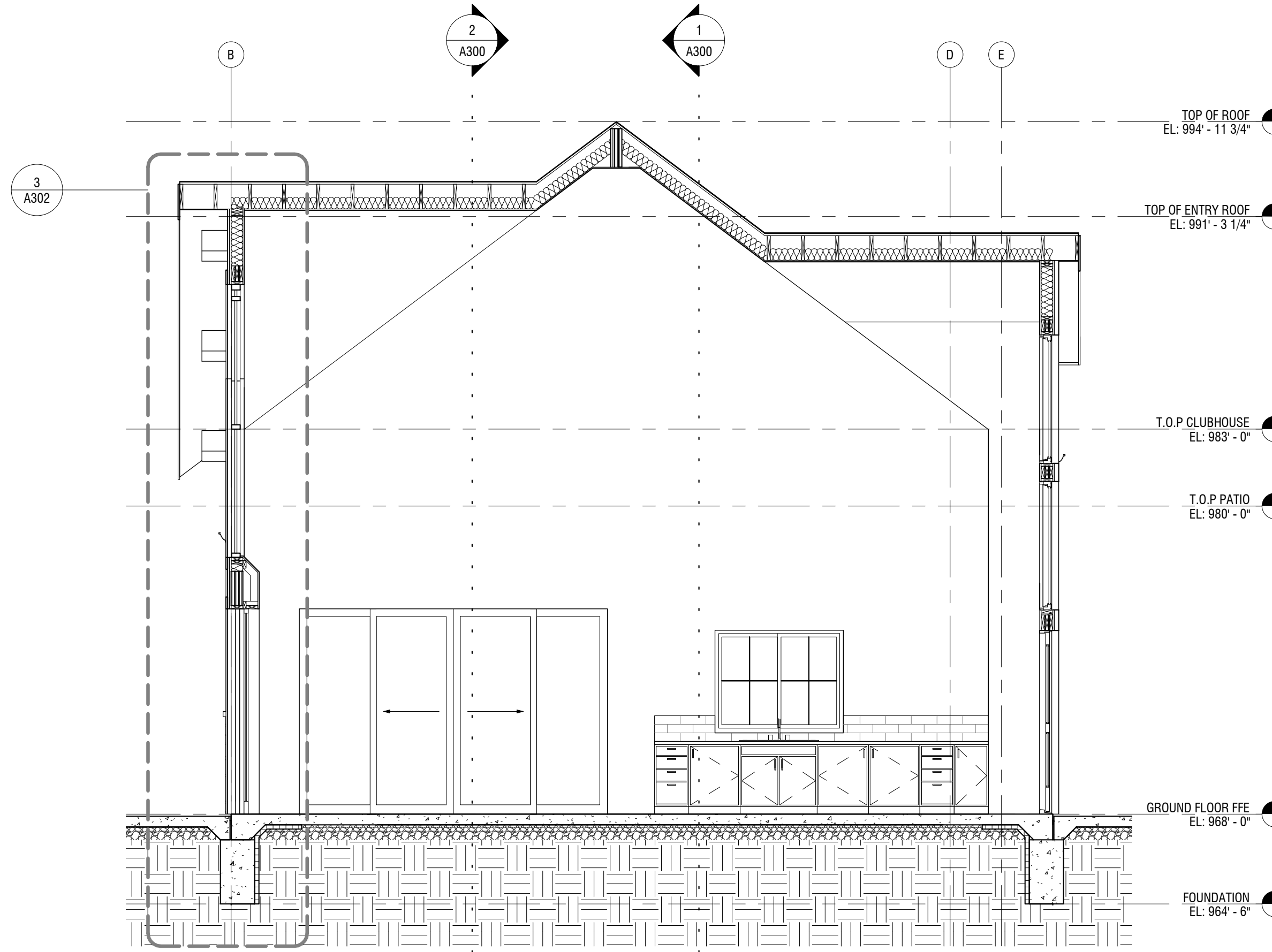
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BUILDING SECTIONS

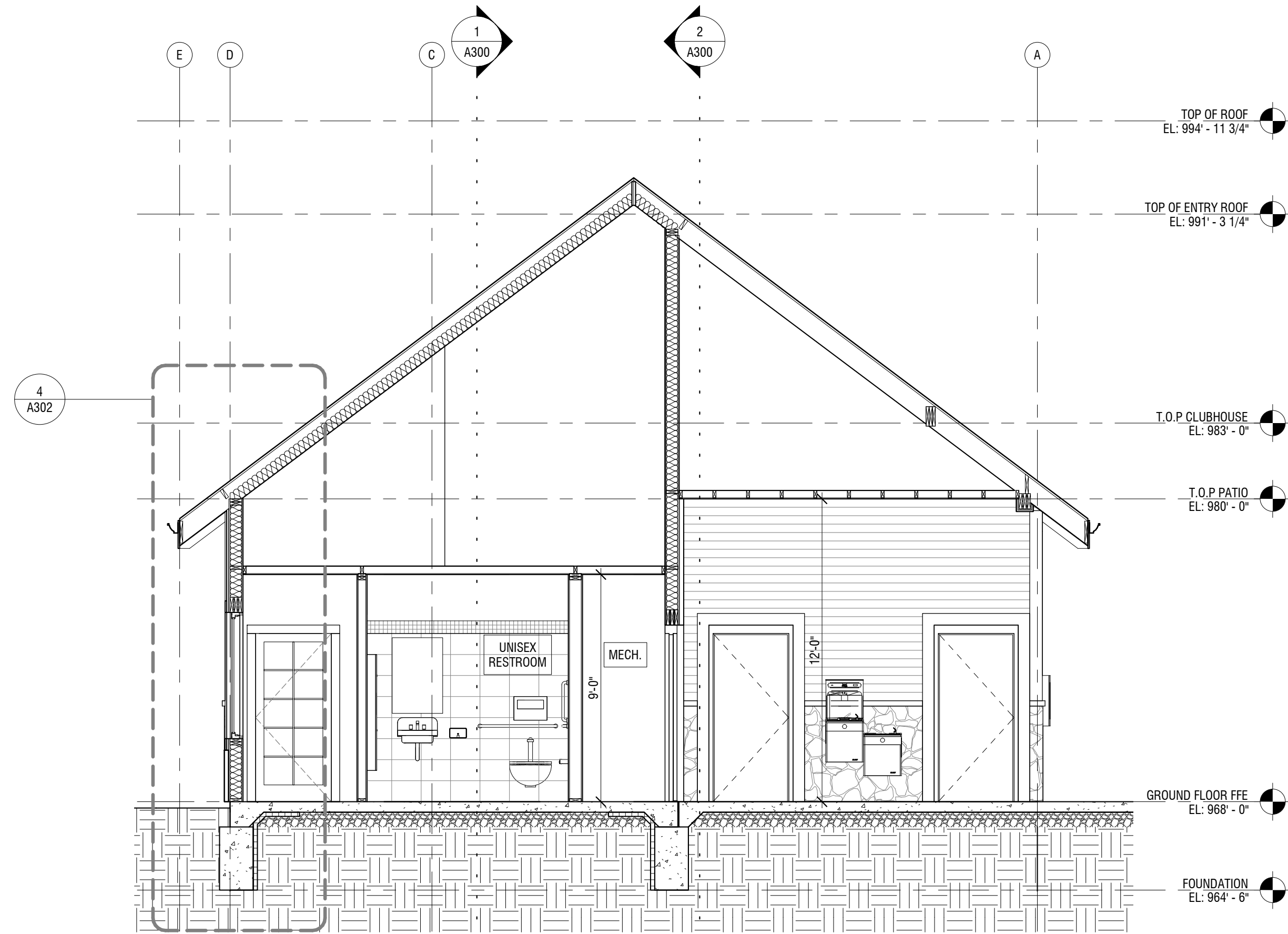
## A301



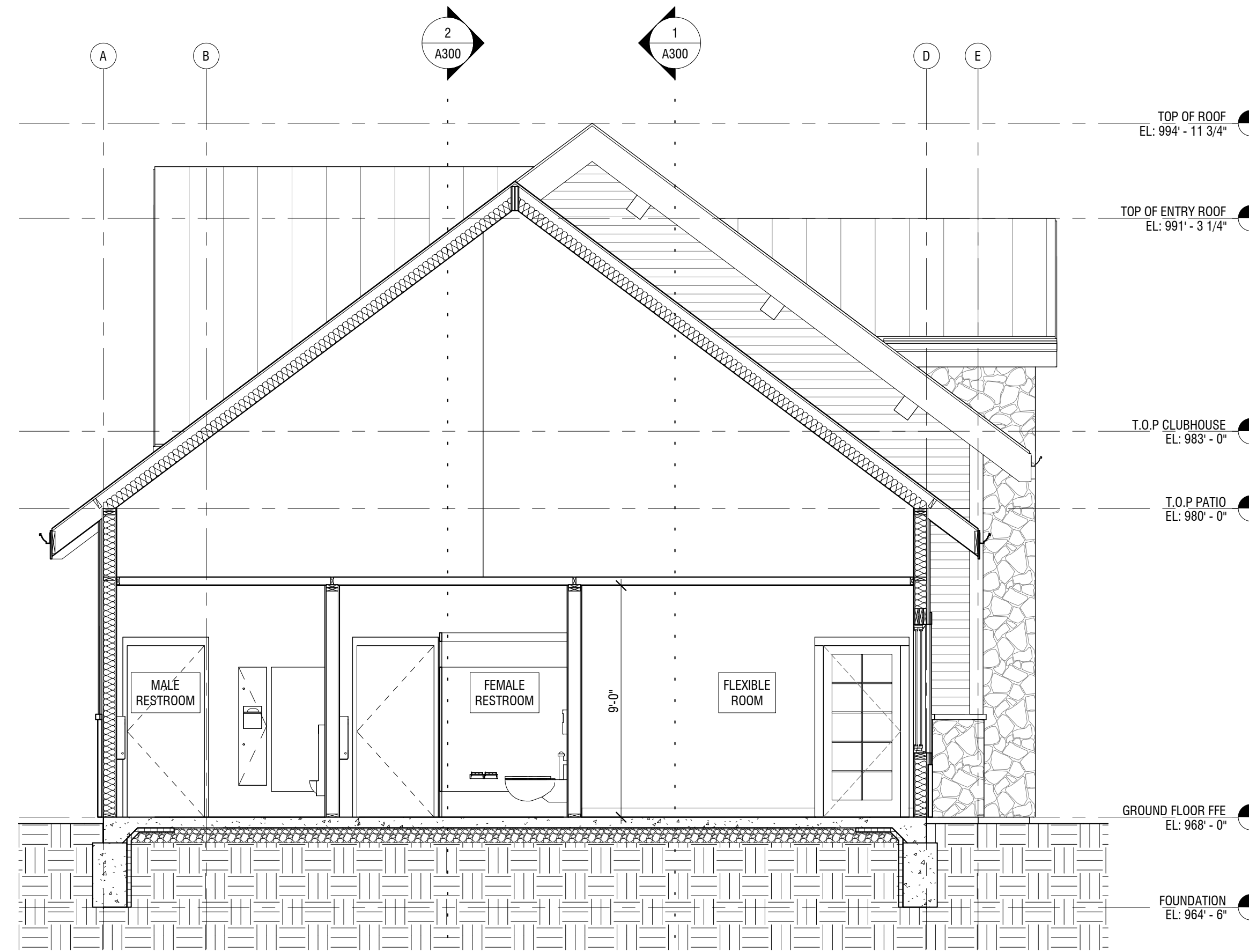
1 SECTION @ COVERED PATIO  
1/4" = 1'-0"



2 SECTION @ GREAT ROOM  
1/4" = 1'-0"



3 SECTION @ UNISEX RESTROOM  
1/4" = 1'-0"

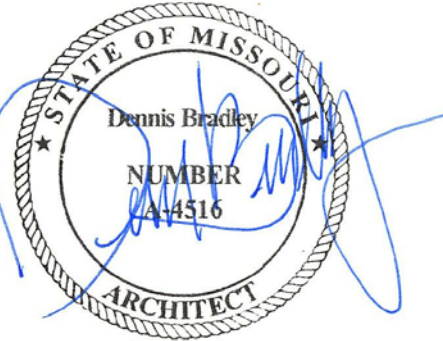


4 SECTION @ FLEXIBLE ROOM  
1/4" = 1'-0"



**WOODSIDE RIDGE CLUBHOUSE**  
342 NW AMBERSHAM DR  
LEE'S SUMMIT, MO 64081

SEAL



03.31.2020

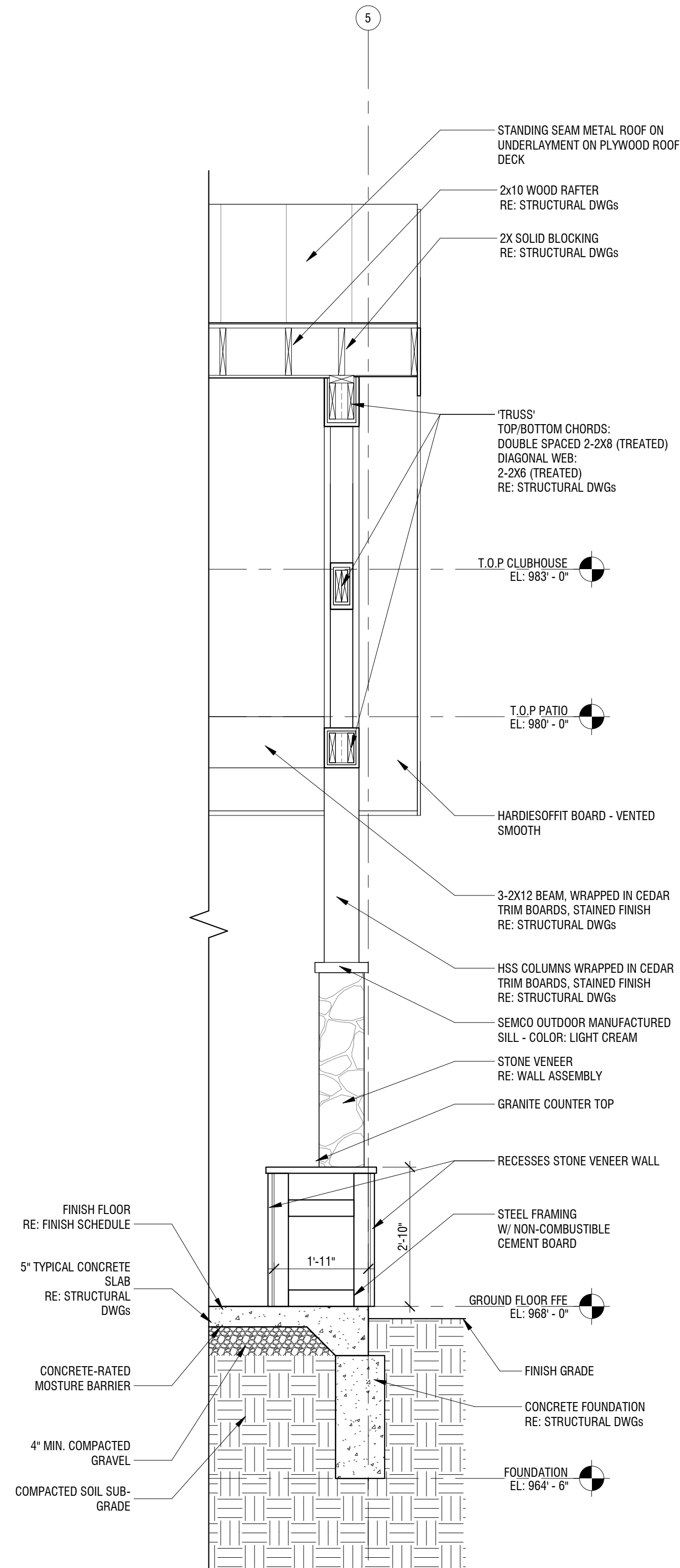
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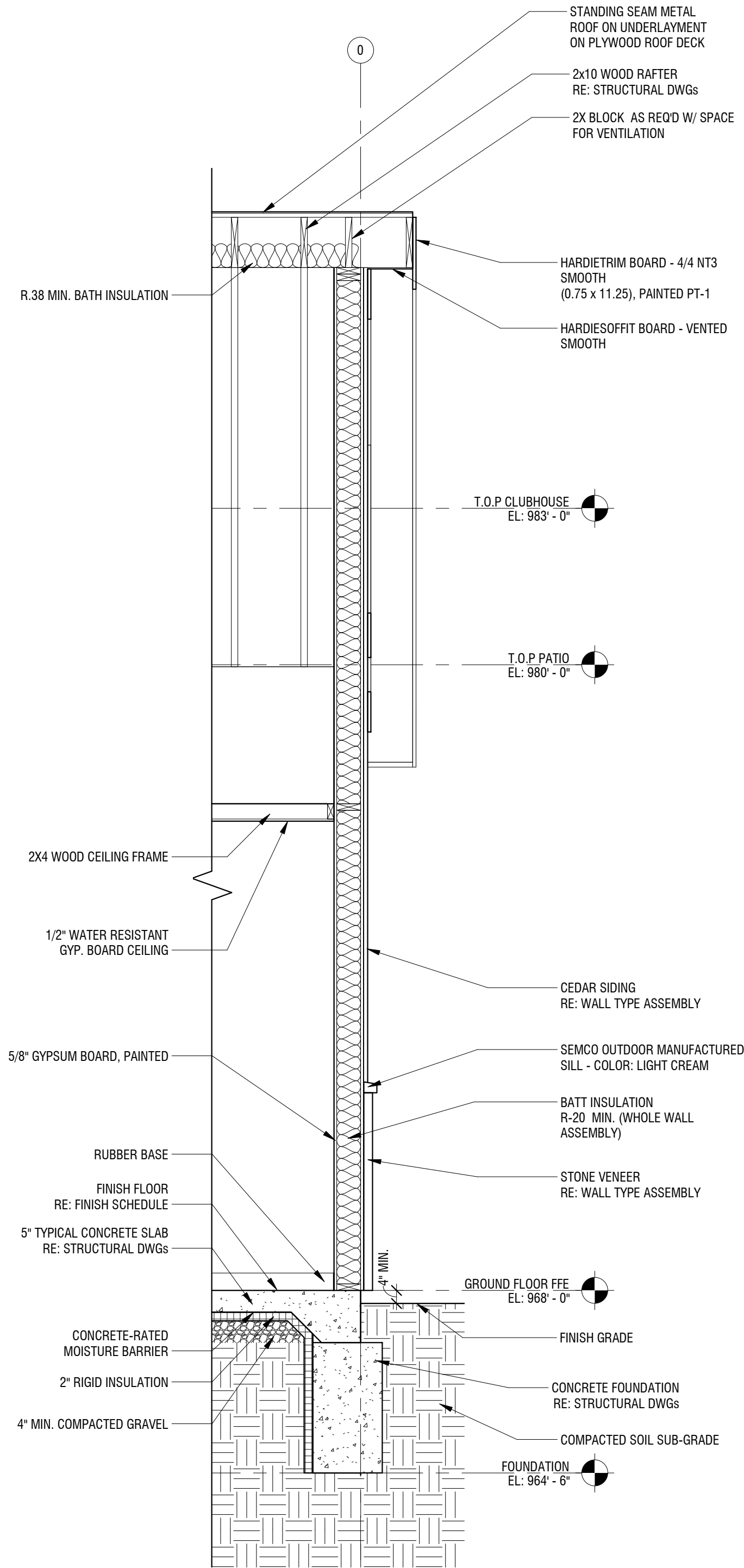
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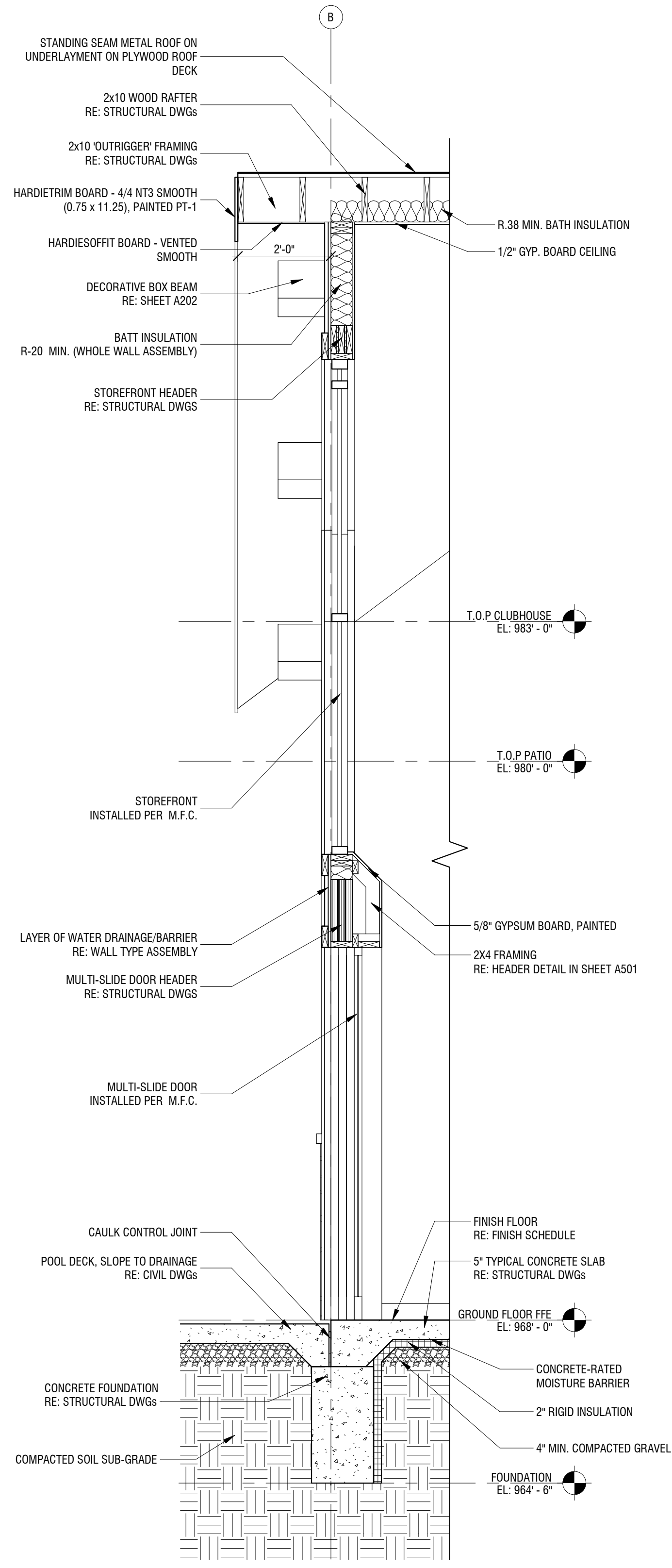
WALL SECTIONS  
**A302**



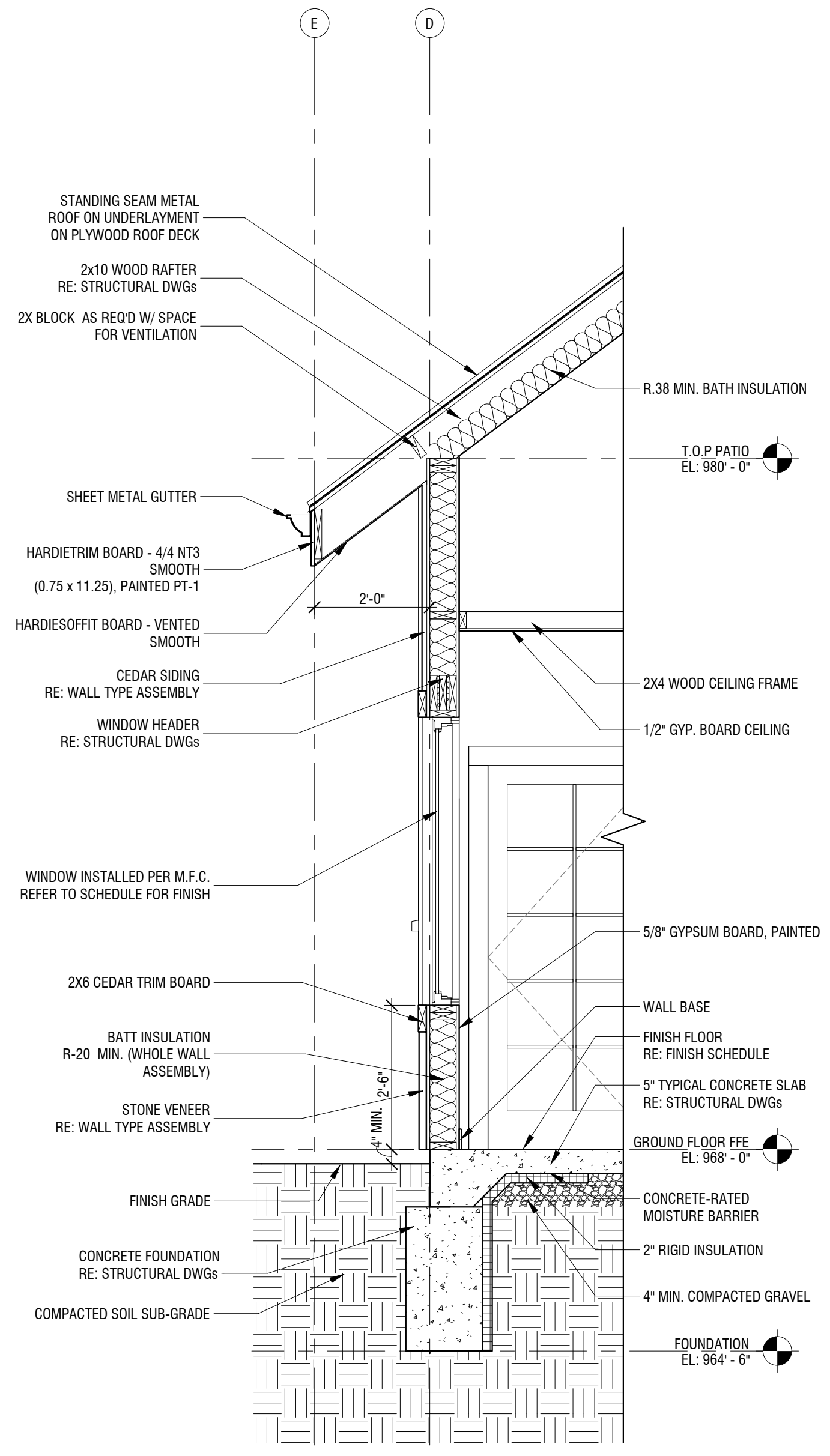
**1** WALL SECTION 1  
1/2" = 1'-0"



**2** WALL SECTION 2  
1/2" = 1'-0"



**3** WALL SECTION 3  
1/2" = 1'-0"

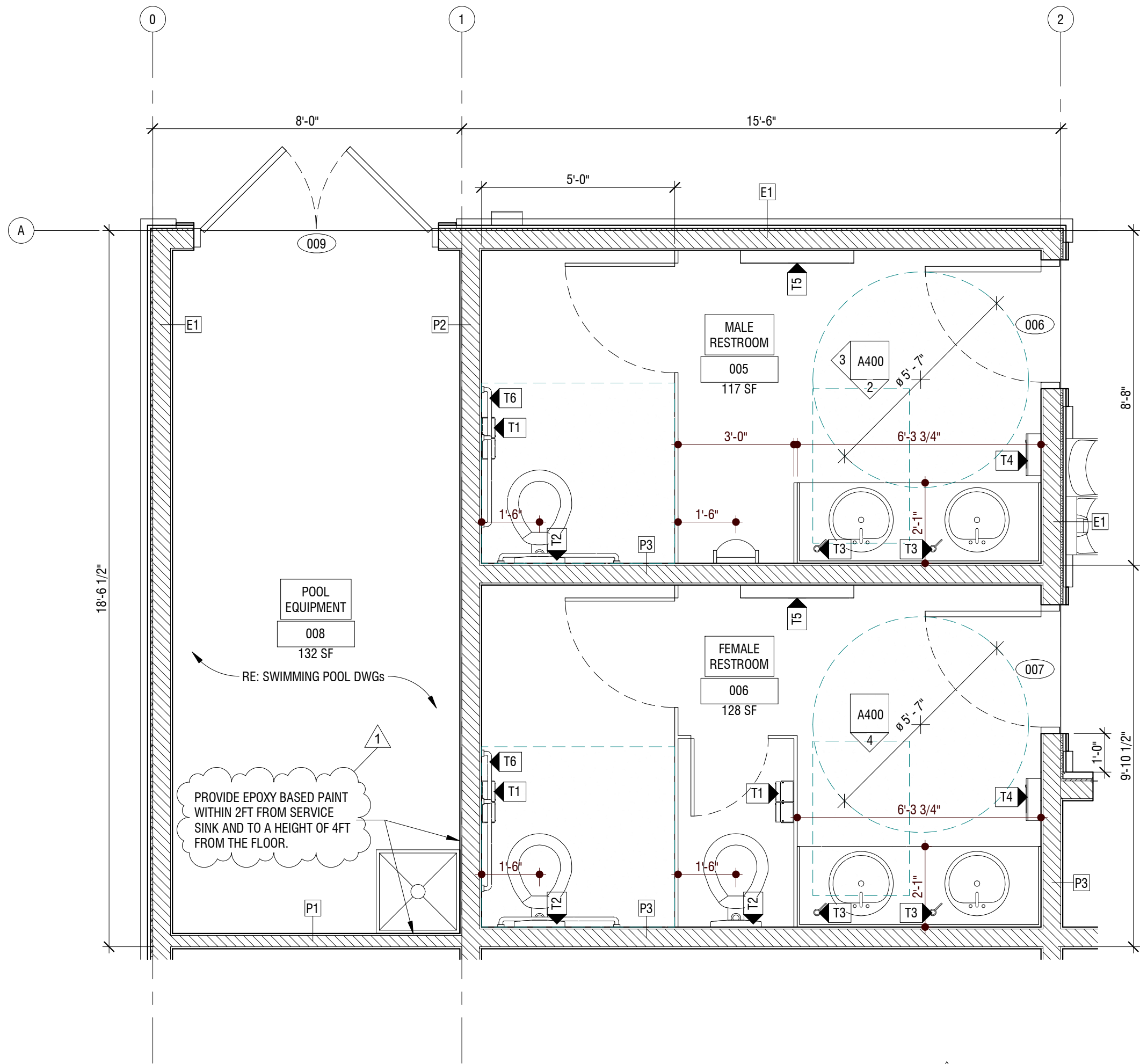


**4** WALL SECTION 4  
1/2" = 1'-0"



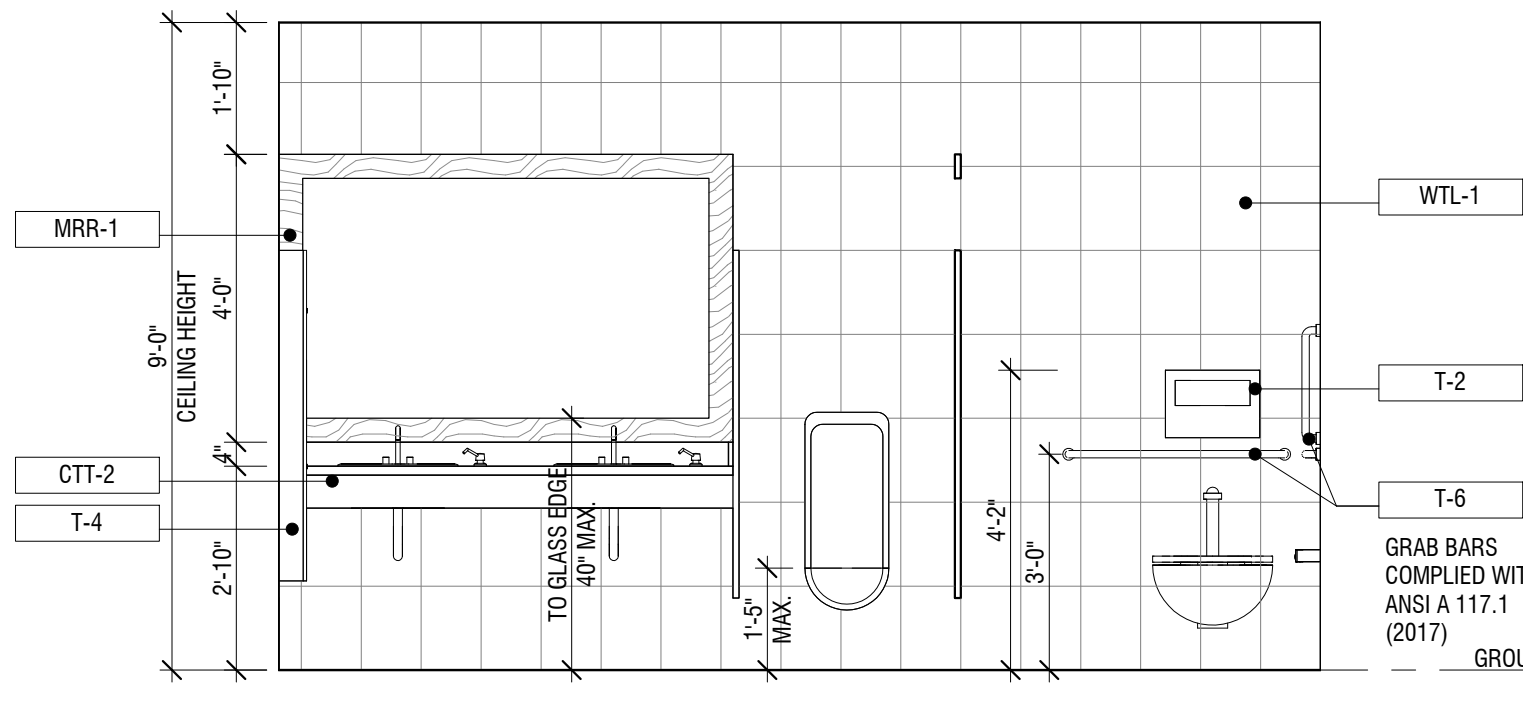
GENERAL NOTES:

- IN ADDITION TO BEING INSTALLED IN ACCORDANCE WITH THE PLUMBING SPECIFICATIONS AND FIXTURE MANUFACTURE'S INSTALLATION GUIDELINES
- REFER TO FINISH SCHEDULE, FINISH LEGEND AND SPECIFICATIONS FOR UN-SHOWED MATERIALS
- RECOMMENDATIONS, ALL UNDERMOUNT SINKS AND VANITIES ARE TO BE SUPPORTED BY HERCULES UNIVERSAL SINK HARNESS
- WALLS AND PARTITIONS WITH 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4 FEET ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE.

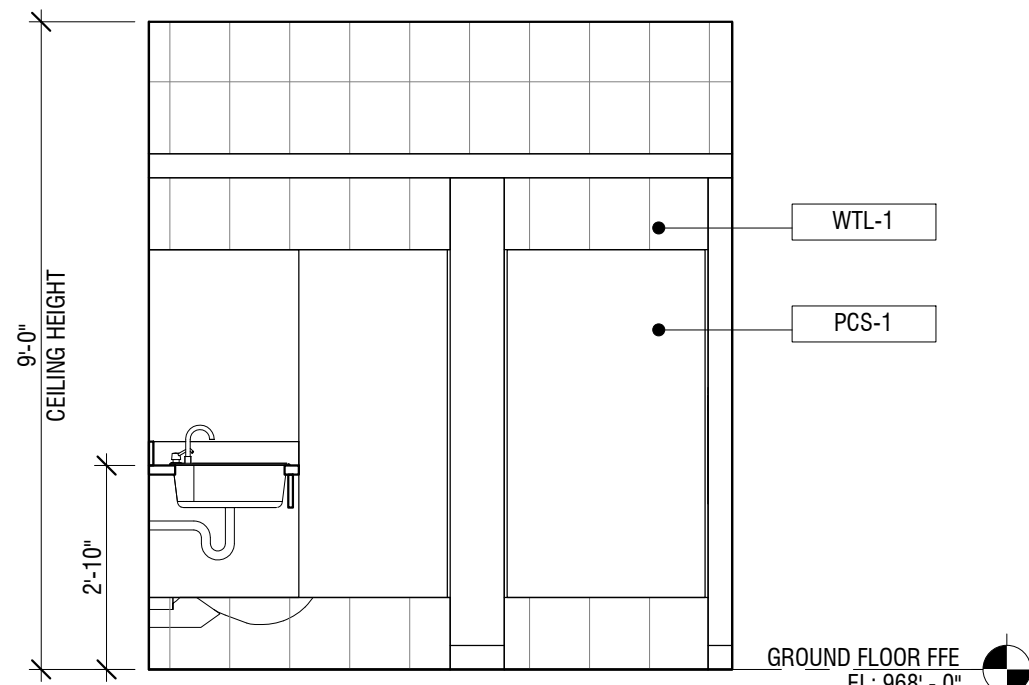


1 RESTROOMS AREA - ENLARGED FLOOR PLAN  
3/8" = 1'-0"

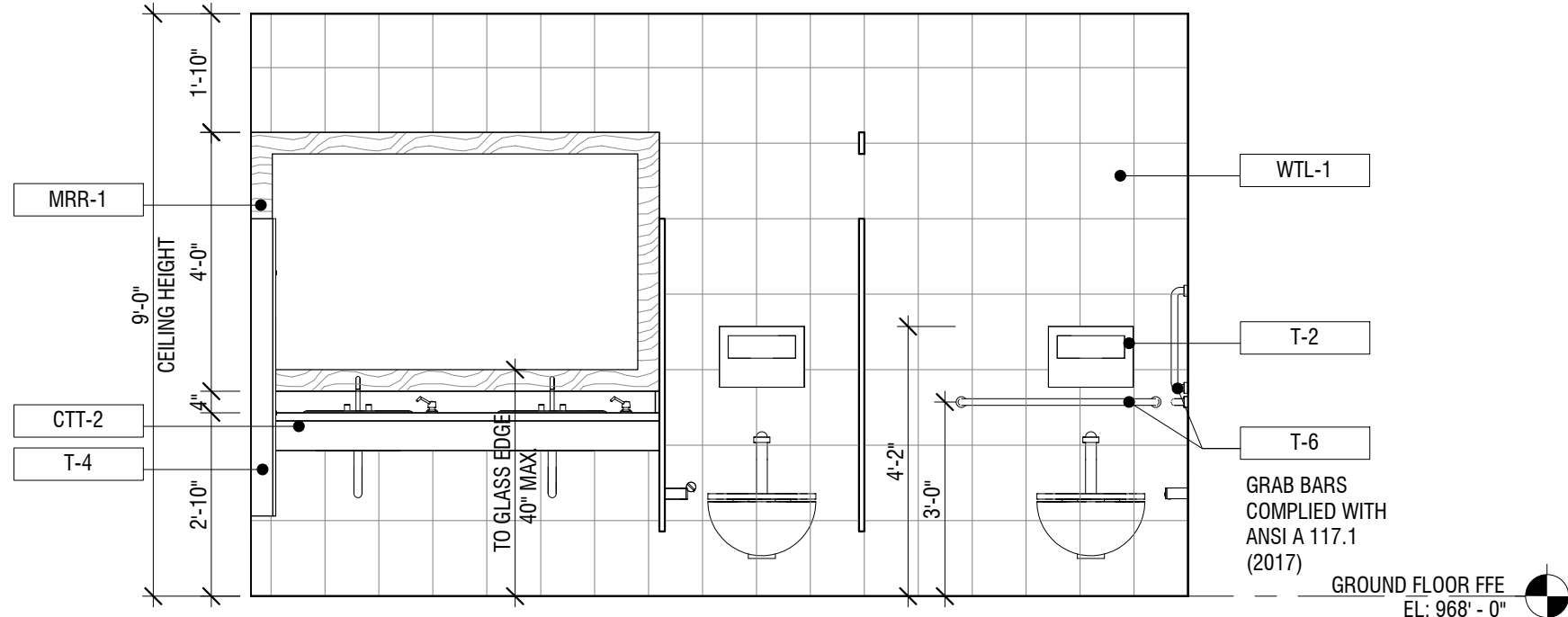
TOILET ACCESSORY SCHEDULE			
CODE	TYPE	MANUFACTURER & STYLE	NOTES
T1	TOILET TISSUE DISPENSER	BOBRICK B-699	
T2	TOILET SEAT COVER DISPENSER	BOBRICK B-4221	
T3	COUNTER MOUNTED SOAP DISPENSER	BOBRICK B-823	
T4	PAPER TOWEL DISPENSER/WASTE RECEPTACLE UNIT	BOBRICK B-43699	
T5	MOUNTED BABY CHANGING STATION	KOALA KARE KB200-00	ADA COMPLIANT
T6	GRAB BARS (SET OF 3 BARS 18", 36", 48")	BOBRICK B-5806 SERRIES	
T7	SURFACE-MOUNTED SOAP DISPENSER	BOBRICK B-2111	



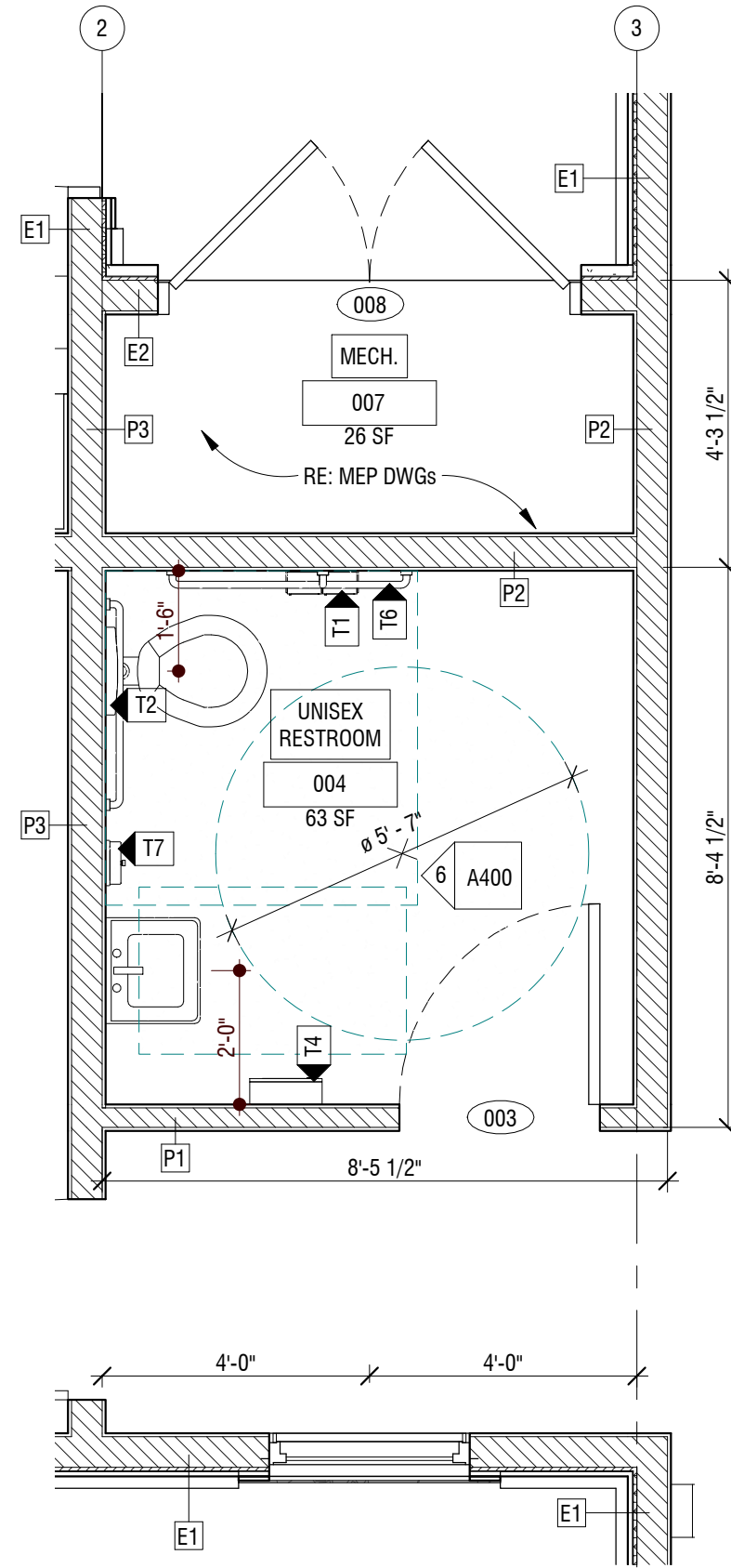
2 MALE RESTROOM - INTERIOR ELEVATION A  
3/8" = 1'-0"



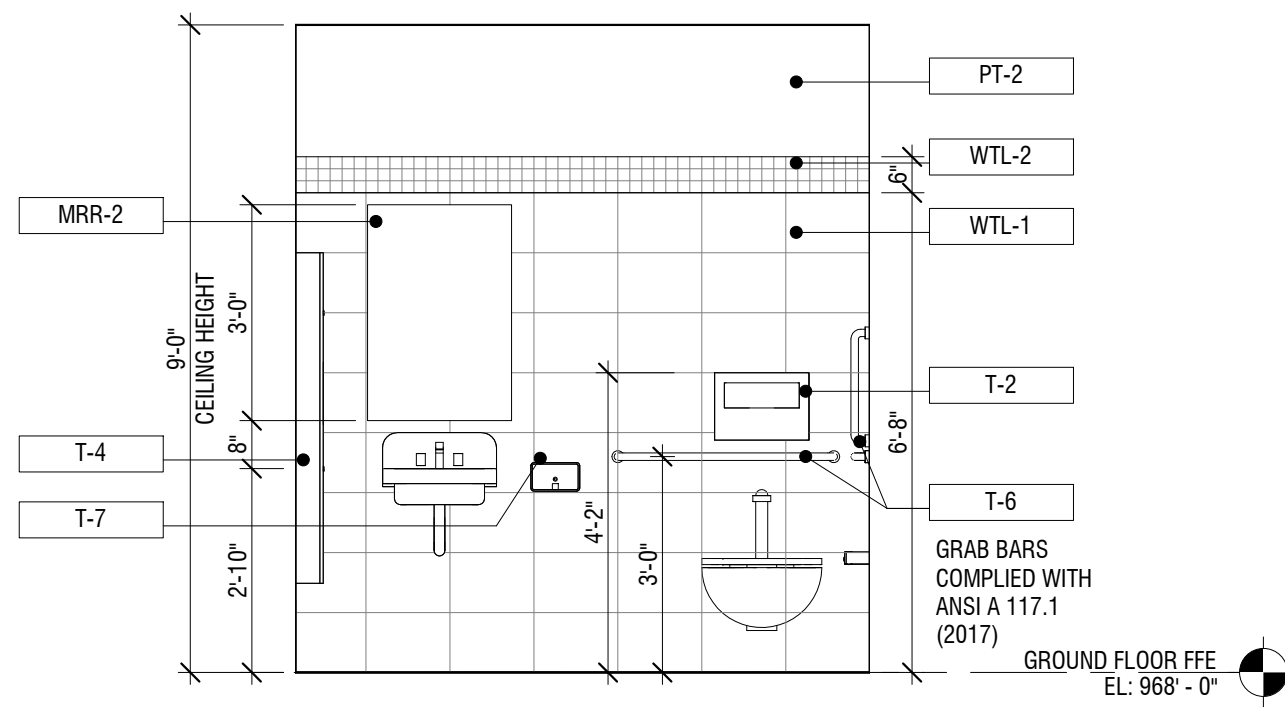
3 MALE RESTROOM - INTERIOR ELEVATION B  
3/8" = 1'-0"



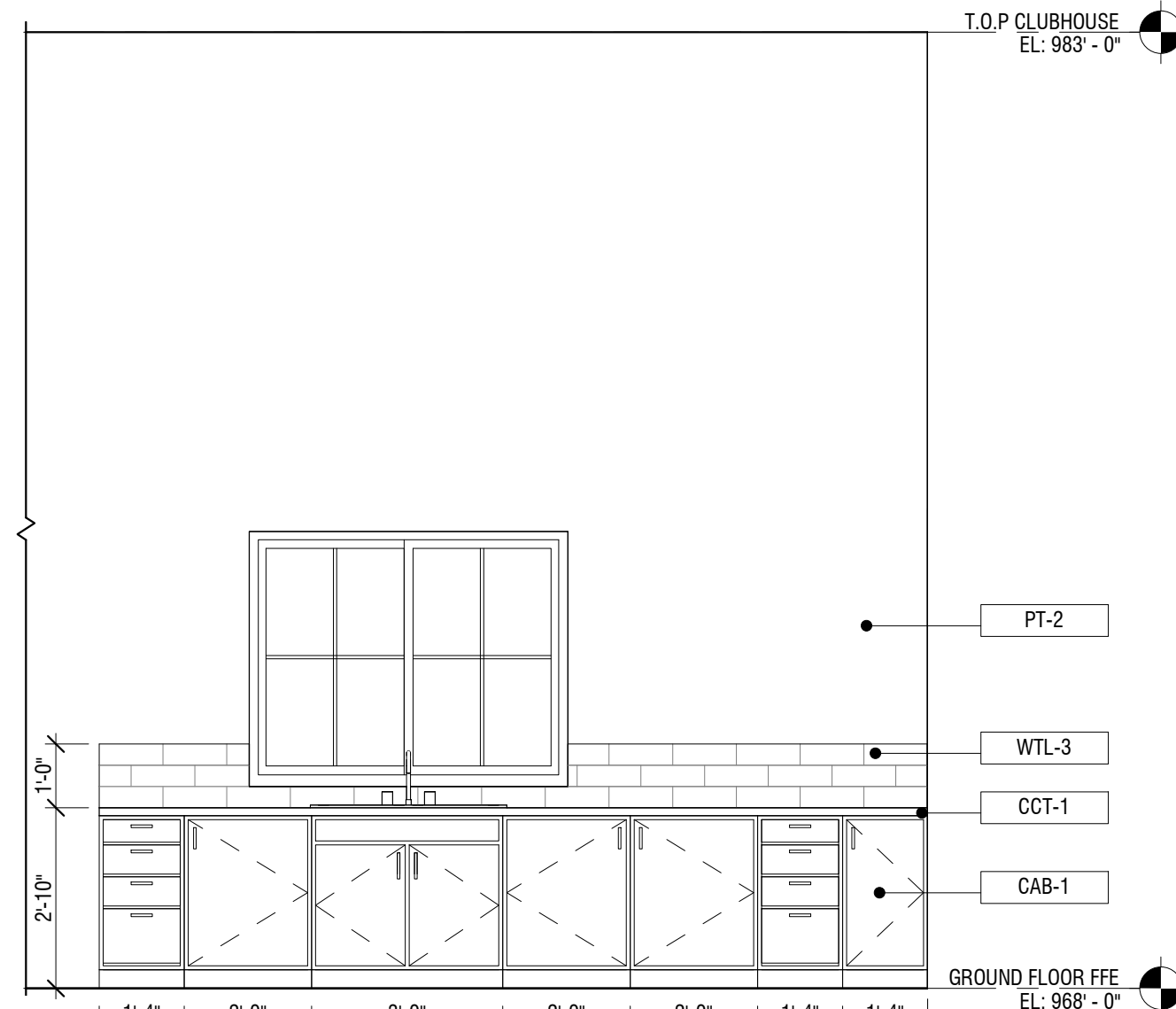
4 FEMALE RESTROOM - INTERIOR ELEVATION  
3/8" = 1'-0"



5 UNISEX RESTROOM/MECH. ROOM - ENLARGED FLOOR PLAN  
3/8" = 1'-0"



6 UNISEX RESTROOM - INTERIOR ELEVATION  
3/8" = 1'-0"



7 KITCHENETTE - INTERIOR ELEVATION  
3/8" = 1'-0"



ARCHITECT  
B+A ARCHITECTURE  
100 W 31ST STREET, SUITE 100  
KANSAS CITY, MO 64108  
PH: 816-753-6100

CIVIL ENGINEER  
OLSSON  
1301 BURLINGTON STREET, SUITE 100  
NORTH KANSAS CITY, MO 64116  
PH: 816-361-1177

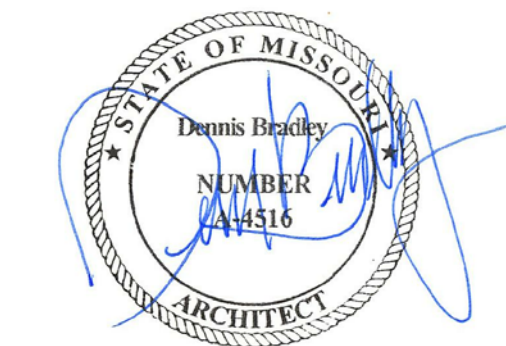
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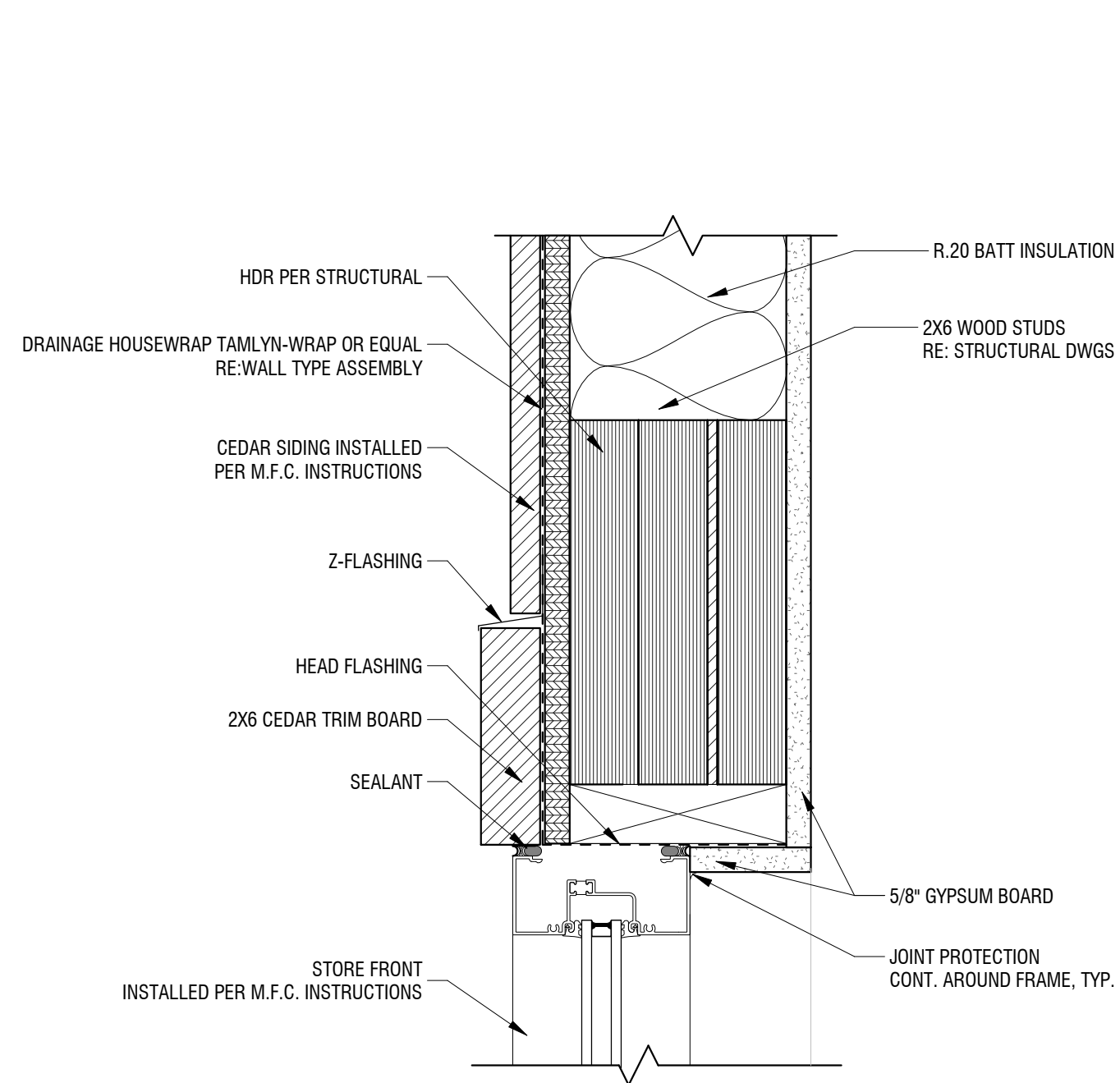
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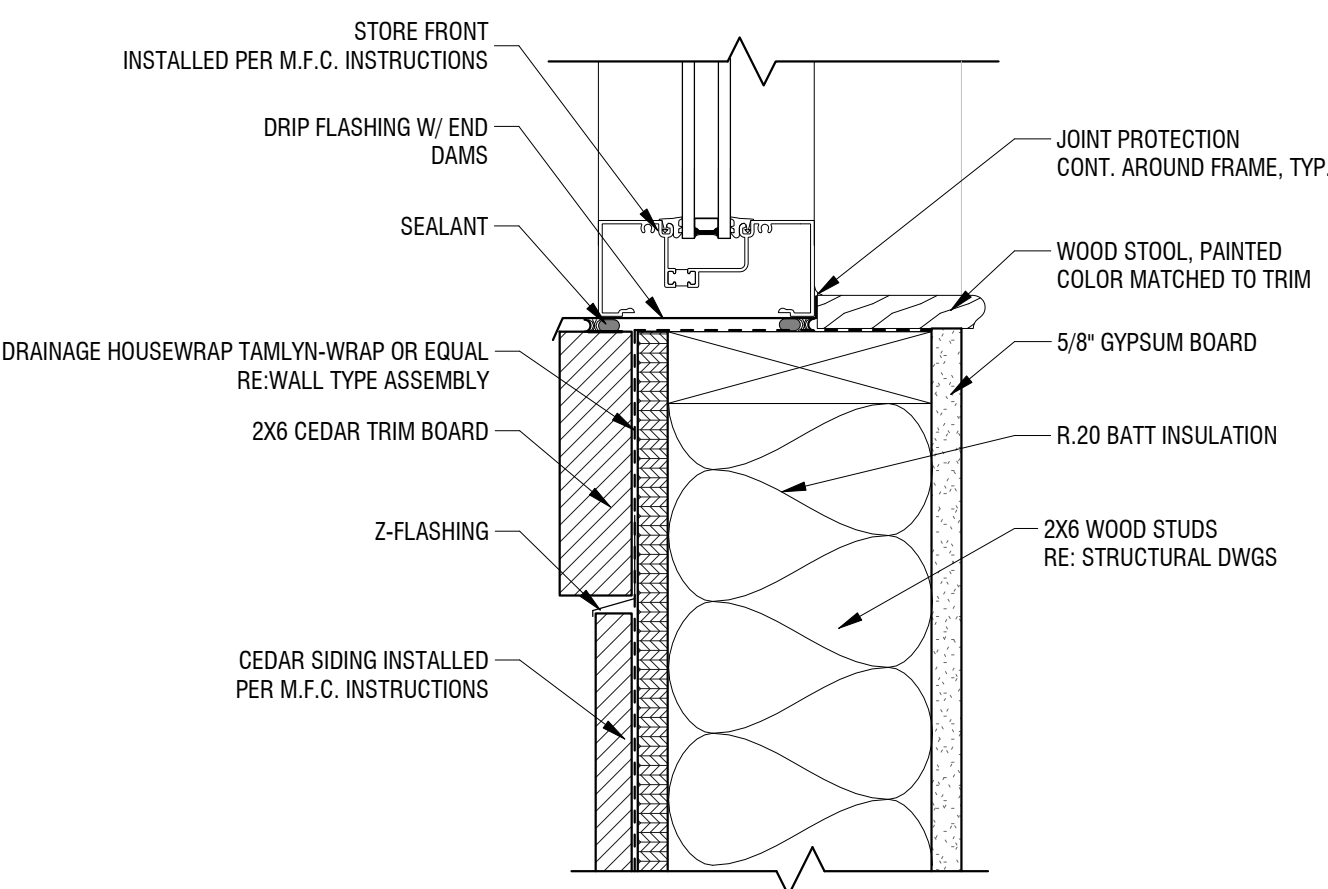
ENLARGED PLANS & INT. ELEV.

A400

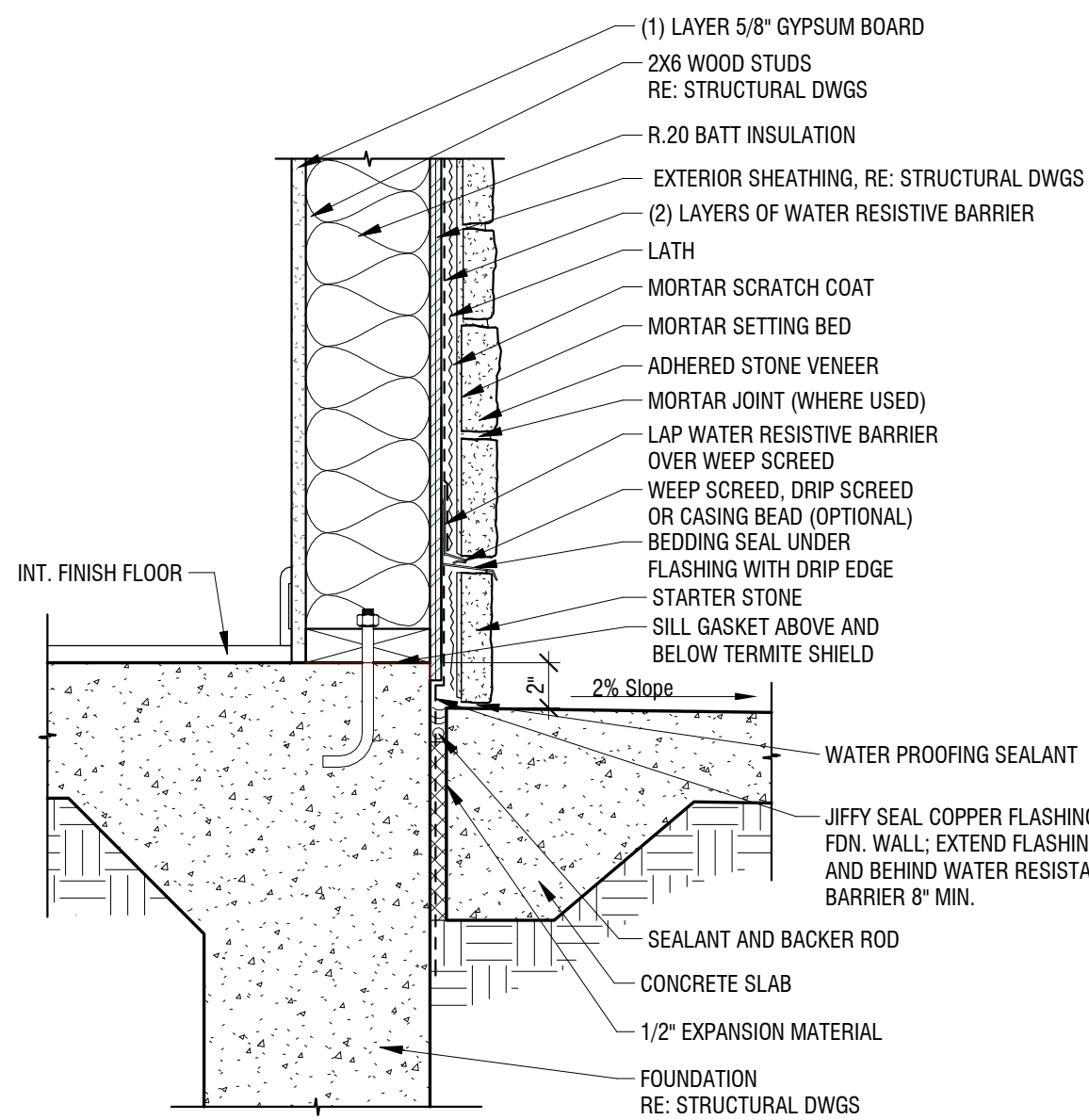




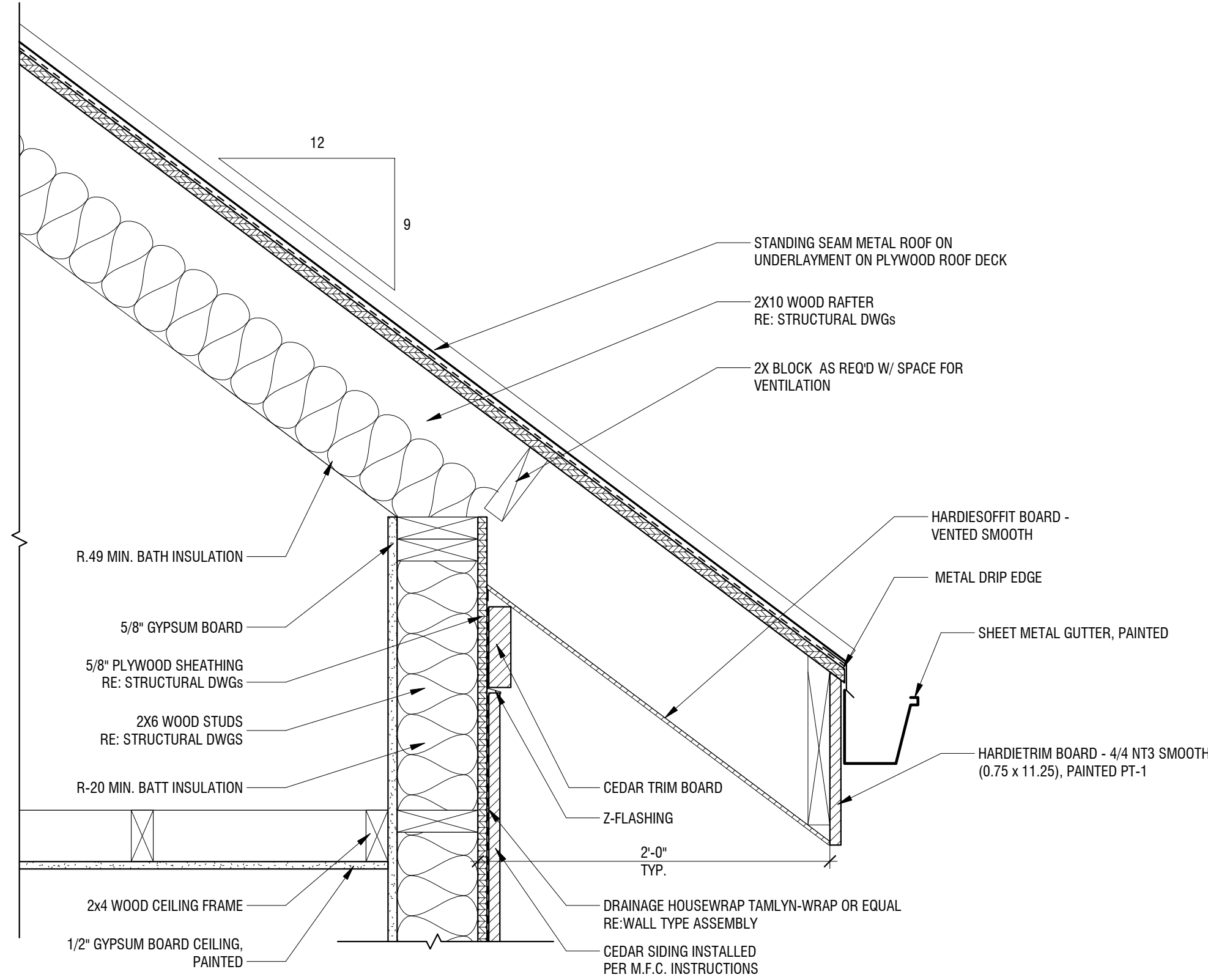
**5 SECTION DETAIL - STORE-FRONT HEAD AT EXT. WALL**  
3" = 1'-0"



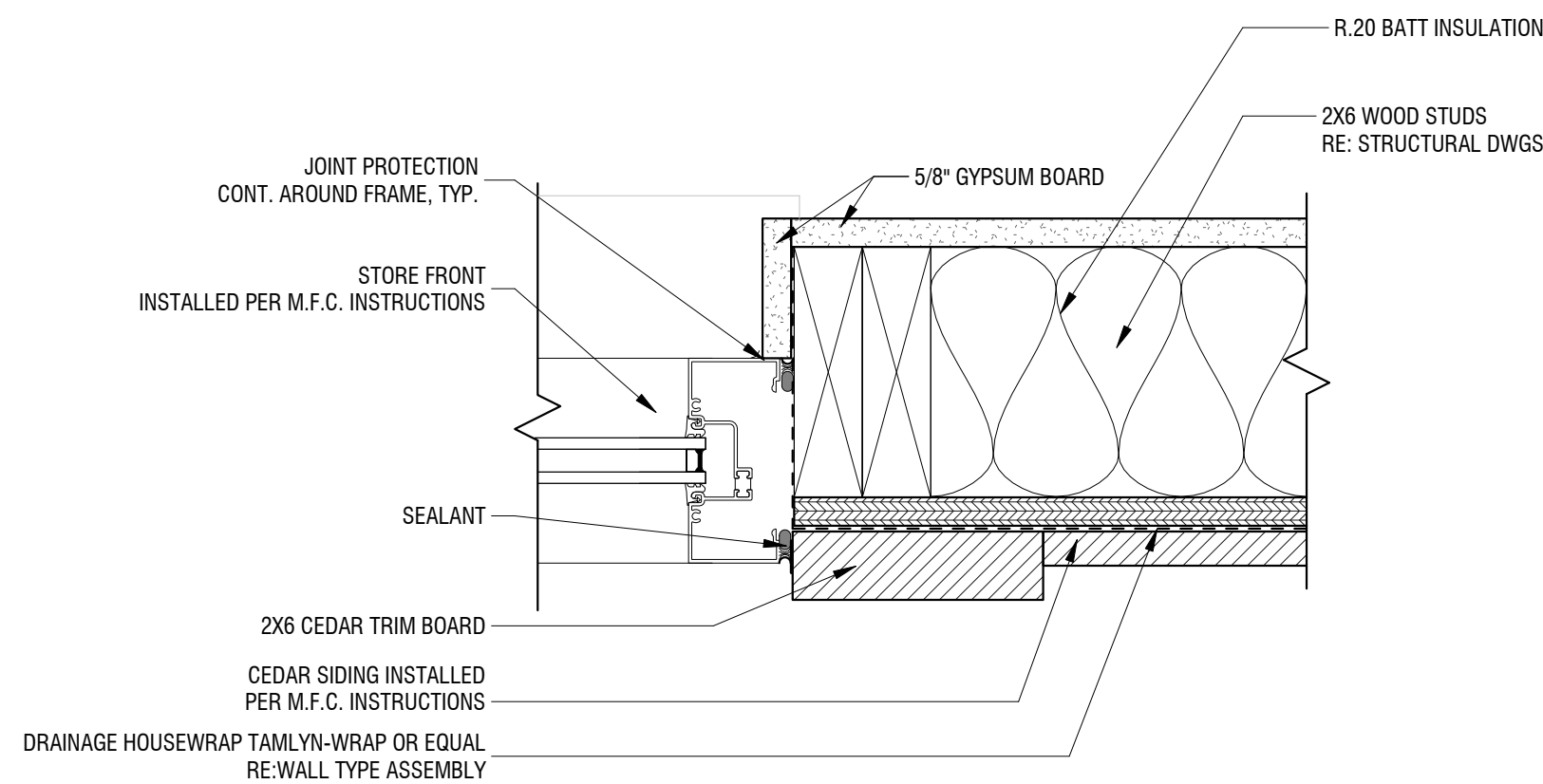
**3 SECTION DETAIL - STORE-FRONT SILL AT EXT. WALL**  
3" = 1'-0"



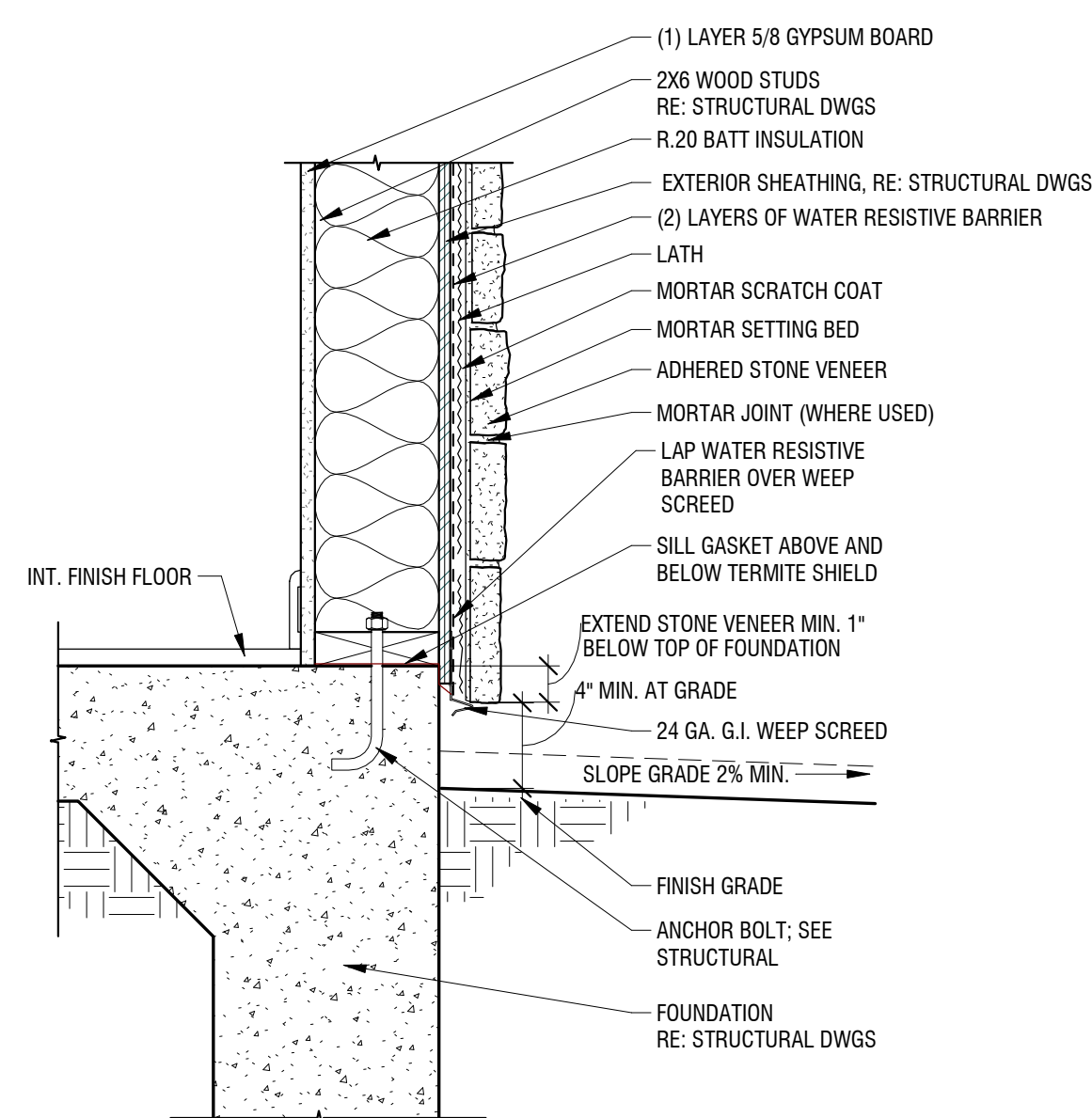
**1 SECTION DETAIL - STONE WALL @ CONCRETE SLAB**  
1 1/2" = 1'-0"



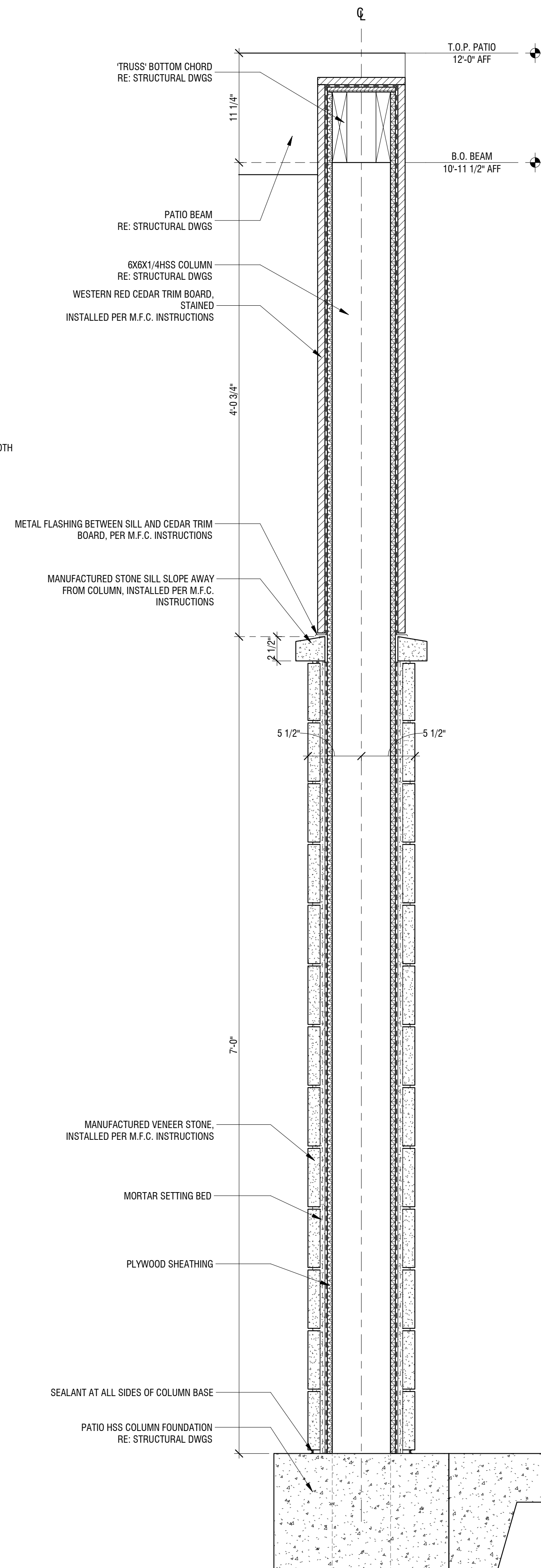
**6 SECTION DETAIL - TYPICAL ROOF EAVE**  
1 1/2" = 1'-0"



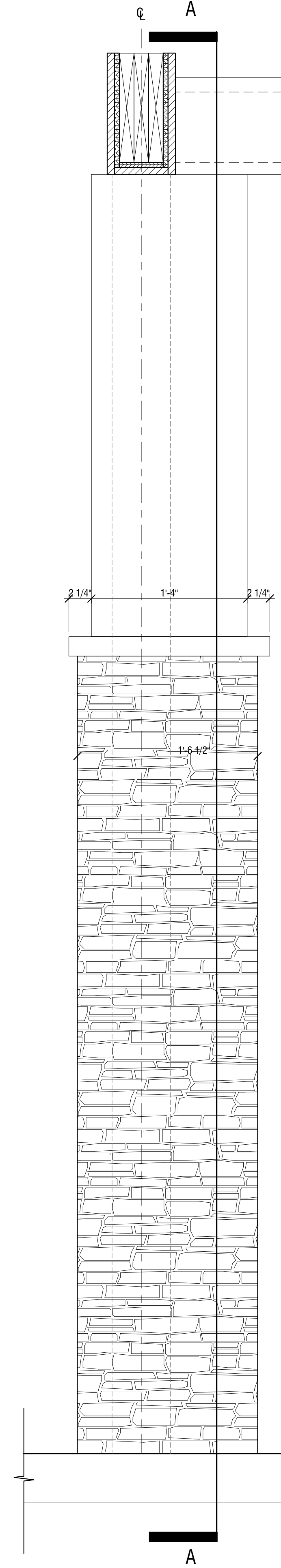
**4 SECTION DETAIL - STORE-FRONT JAMB AT EXT. WALL**  
3" = 1'-0"



**2 SECTION DETAIL - STONE WALL @ GRADE**  
1 1/2" = 1'-0"

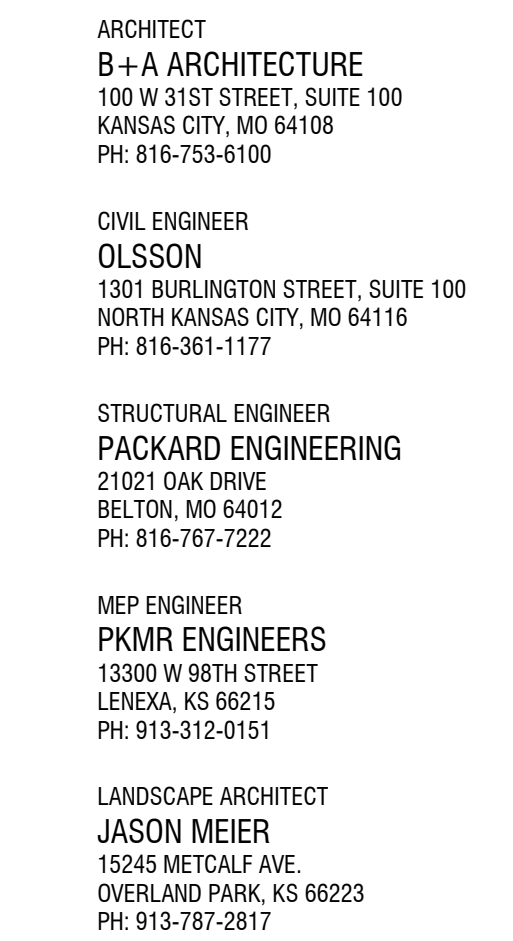


**7 SECTION DETAIL - PATIO HSS COLUMN**  
1 1/2" = 1'-0"



NO.	REVISION	DATE



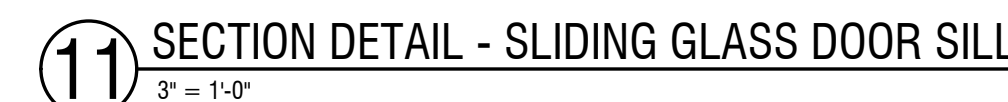
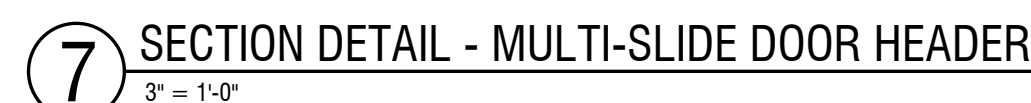


342 NW AMBERSHAM DR  
LEE'S SUMMIT, MO 64081

[illegible]

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# A501





**DOOR ELEVATIONS**

**TYPE A**  
MAIN ENTRY DOOR  
GREAT ROOM  
(ALUMINUM-GLAD WOOD)  
Dimensions: 6'-0" wide, 7'-7 7/8" high. Side panels: 1'-2 1/2" each. Glass panel: 3'-2 1/2" wide. Andersen E-Series Commercial Door Sidelight (HPD1273) Panel Option (CSLMS).

**TYPE B**  
ENTRY/EXIT DOOR  
GREAT ROOM  
(ALUM. FRAME - GLASS PANEL)  
Dimensions: 3'-0" wide, 6'-8" high.

**TYPE C**  
UNISEX RESTROOM  
STORAGE  
(SOLID CORE WOOD)  
Dimensions: 3'-0" OR 2'-8" wide, 6'-8" high.

**TYPE D**  
RESTROOMS  
(HOLLOW METAL PANEL)  
Dimensions: 3'-0" wide, 6'-8" high.

**TYPE E**  
POOL EQUIPMENT  
MECHANICAL ROOM  
(HOLLOW METAL PANEL)  
Dimensions: 6'-0" wide (3'-0" sections), 6'-8" high.

**TYPE F**  
FLEXIBLE ROOM  
(SOLID CORE WOOD - GLASS PANEL)  
Dimensions: 3'-0" wide, 6'-8" high.

FINISH FLOOR

DOOR SCHEDULE													
NO.	TYPE	SIZE		OPERATION	MATERIAL	DOOR		FIRE RATING	GLASS	FRAME		HARDWARE SET	REMARKS
		WIDTH	HEIGHT			FINISH	FINISH						
001	A	3'-2 1/2"	7'-17/8"	SW	ALUM. CLAD WOOD	COLOR TO MATCH WINDOW FRAMES			LOW E-4 GLASS	ALUM.	COLOR TO MATCH WINDOW FRAMES	BY DOOR MANUFACTURER, INCLUDE PANIC HARDWARE	ANDERSEN DOORS, E-SERIES, COMMERCIAL DOOR (ADA SILL), COLORAL GRILLE PATTERN, CONCEALED PANIC SYSTEM (CPS) CPS3273, PANEL OPTION GP2M3
002	B	3'-0"	6'-8"	SW	ALUM/GLASS	*SEE REMARKS	-	TEMP.		ALUM.	*SEE REMARKS	2	RE: EXTERIOR MATERIAL SCHEDULE FOR COLOR
003	C	3'-0"	6'-8"	SW	S.C. WOOD	*SEE REMARKS	-			WOOD	*SEE REMARKS	8	COLOR MATCH TO PT-3
004	F	3'-0"	6'-8"	SW	S.C. WOOD/GLASS	*SEE REMARKS	-	TEMP.		WOOD	*SEE REMARKS	8	COLOR MATCH TO PT-3
005	C	2'-8"	6'-8"	SW	S.C. WOOD	*SEE REMARKS	-			WOOD	*SEE REMARKS	8	COLOR MATCH TO PT-3
006	D	3'-0"	6'-8"	SW	H.M.	*SEE REMARKS	-	-		H.M.	*SEE REMARKS	4	RE: EXTERIOR MATERIAL SCHEDULE FOR COLOR
007	D	3'-0"	6'-8"	SW	H.M.	*SEE REMARKS	-	-		H.M.	*SEE REMARKS	4	RE: EXTERIOR MATERIAL SCHEDULE FOR COLOR
008	E	6'-0"	6'-8"	SW	H.M.	*SEE REMARKS	-	-		H.M.	*SEE REMARKS	3	RE: EXTERIOR MATERIAL SCHEDULE FOR COLOR
009	E	6'-0"	6'-8"	SW	H.M.	*SEE REMARKS	-	-		H.M.	*SEE REMARKS	3	RE: EXTERIOR MATERIAL SCHEDULE FOR COLOR

<b>SW</b>	SWING	<b>H.M.</b>	HOLLOW METAL	<b>S.C. WOOD</b>	SOLID CORE WOOD
<b>OH</b>	OVERHEAD	<b>K.D.</b>	KNOCK DOWN	<b>ALUM.</b>	ALUMINUM

1. SEE EXTERIOR MATERIAL SCHEDULE FOR EXTERIOR DOOR FINISH COLOR
2. INTERIOR DOOR COLOR MATCH INTERIOR WALL COLOR, SEE FINISH LEGEND ON SHEET A801
3. INTERIOR DOOR TRIM COLOR MATCH TO INTERIOR WALL COLOR

**SET: 1.0** (NOT USED)

**SET: 2.0**  
DOORS: 002

1	CONTINUOUS HINGE	CFMH01			PE
1	EXIT DEVICE	7200 X PULL (SEE BELOW)	630		YA
1	CYLINDER RIM MORTISE	AS REQUIRED (MATCH EXISTING KEY SYSTEM)			
1	SMALL P.C. BRIDGE RECTIFIER	2006M3	630		HS
1	ELECTRIC STRIKE	9600			HS
1	DOOR PULL, OFFSET	RM3311-12 MTG-TYPE 12HD	USQ20		RO
1	SURFACE CLOSURE	CPS7500	689		NO
1	DROP PLATE	7788	689		NO
1	BLADE STOP	6891	689		NO
1	THRESHOLD	171A			PE
1	SET WEATHERSHIP	BY DOOR MANUFACTURER			
1	SWEEP	BY DOOR MANUFACTURER			
1	ELECTROLUX HARNES	QC-C1500P			MK
1	POSITION SWITCH	XPS			SU
1	MOTION SENSOR	DM5			SU
1	POWER SUPPLY	BPS-24-1			SU
1	CARD READER	WALL READER TO BE PROVIDED BY SYSTEMS INTEGRATOR			

NOTE: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE EGRESS.

**SET: 3.0**

DOORS: 008, 009

6	HINGE (HAWK WEIGHT)	TA43386 NRP 4-1/2" X 4-1/2"	US32D	MY
1	STOREROOM LOCK	PBR 8805FL LC	630	YA
2	FLUSHBOLT	555		RO
1	CYLINDER RIM/MORTISE	AS REQUIRED (MATCH EXISTING KEY SYSTEM)		
1	SURFACE CLOSER, HO	CLP7500R	600 X 689	NO
1	THRESHOLD	1545S		PE
1	GASKETING	3055SE		PE
1	RAINGUARD	346S		PE
1	SWEEP	3155SN		PE
1	DUST PROOF STRIKE	570		RO
1	Z ASTRAGAL	BY DOOR MANUFACTURER		

**SET: 4.0**

DOORS: 006, 007

3	HINGE (HEAVY WEIGHT)	T4A3386 4-1/2" X 4-1/2"	US32D	MK
1	BATHROOM LOCK	PBR 8862FL IND	630	YA
1	SURFACE CLOSER	7500	689	NO
1	DOOR STOP	441	US26D	RO
1	THRESHOLD	171A		PE
1	GASKETING	S88D		PE

The image displays two technical drawings of aluminum frame glass sliding panels, labeled TYPE SD1 and TYPE SD2. Both drawings show a side elevation of the panels, which are 8'-0" high and sit on a 'FINISH FLOOR' line. Arrows indicate the sliding direction for each panel.

- TYPE SD1:** This configuration consists of 8 panels, each 24'-0" wide. The panels are arranged in a row, with arrows indicating they slide horizontally.
- TYPE SD2:** This configuration consists of 4 panels, each 12'-0" wide. The panels are arranged in a row, with arrows indicating they slide horizontally.

Both panels are described as 'ALUMINUM FRAME- GLASS SLIDING PANELS' for the 'GREAT ROOM'.

1.	U-VALUES SHALL COMPLY WITH TABLE 502.3 OF IECC	
2.	REFER TO STORE FRONT/ WINDOW SPECIFICATIONS	
3.	GLAZING TO BE PPG SOLARBAN 60:	
	SOLAR HEAT GAIN COEFFICIENT	0.4
	VISIBLE LIGHT TRANSMITTANCE	72%
	U-VALUE	0.2
	ULTRAVIOLET ENERGY	20%

ALUMINUM FRAME-GLASS PANEL  
GREAT ROOM

Diagram showing five window types (W1 through W5) for the Great Room, all featuring an aluminum frame and glass panel. The windows are shown in elevation view with dimensions and descriptions.

- TYPE W1:** ALUMINUM-CLAD WOOD FRAME (SLIDING WINDOW) KITCHENETTE-BAR. Dimensions: 4'-0" height, 5'-0" width. Sill height: 3'-2".
- TYPE W2:** ALUMINUM-CLAD WOOD FRAME (SLIDING WINDOW) GREAT ROOM AND FLEXIBLE ROOM. Dimensions: 5'-0" height, 5'-0" width. Sill height: 2'-6".
- TYPE W3:** ALUMINUM-CLAD WOOD FRAME (CASEMENT PICTURE WINDOW) GREAT ROOM. Dimensions: 5'-0" height, 5'-0" width. Sill height: 3'-2".
- TYPE W4:** ALUMINUM-CLAD WOOD FRAME (CASEMENT PICTURE WINDOW) GREAT ROOM. Dimensions: 5'-0" height, 6'-0" width. Sill height: 3'-2".
- TYPE W5:** ALUMINUM-CLAD WOOD FRAME (CASEMENT PICTURE WINDOW) GREAT ROOM. Dimensions: 5'-0" height, 3'-0" width. Sill height: 2'-6".

FINISH FLOOR

SLIDING DOOR SCHEDULE						
NO.	TYPE	SIZE		FRAME	REMARKS	
		WIDTH	HEIGHT			
D1a	SD1	12" - 0"	8" - 0"	ALUM. PAINTED, MATCH WINDOW FRAME	WESTERN WINDOW SYSTEMS, SERIES 7600 MULTI-SLIDE DOOR, FLUSH SILL/STANDARD LOW E-GLASS (06X0)	
D1b	SD1	12" - 0"	8" - 0"	ALUM. PAINTED, MATCH WINDOW FRAME	WESTERN WINDOW SYSTEMS, SERIES 7600 MULTI-SLIDE DOOR, FLUSH SILL/STANDARD LOW E-GLASS (06X0)	
D2a	SD2	6" - 0"	8" - 0"	ALUM. PAINTED, MATCH WINDOW FRAME	WESTERN WINDOW SYSTEMS, SERIES 7650 SLIDING GLASS DOOR, FLUSH SILL/STANDARD LOW E-GLASS (0XX0)	
D2b	SD2	6" - 0"	8" - 0"	ALUM. PAINTED, MATCH WINDOW FRAME	WESTERN WINDOW SYSTEMS, SERIES 7650 SLIDING GLASS DOOR, FLUSH SILL/STANDARD LOW E-GLASS (0XX0)	

STOREFRONT SCHEDULE						
NO.	WIDTH	HEIGHT	SILL HEIGHT	GLASS	FRAME FINISH	REMARK
F1	5'-7 7/8"	6'-7 1/2"	10'-0"	DOUBLE PANE	ALUM./PAINTED	COLOR MATCH TO WINDOW FRAME
F2	5'-7 7/8"	11'-1"	10'-0"	DOUBLE PANE	ALUM./PAINTED	COLOR MATCH TO WINDOW FRAME
F3	5'-7 7/8"	11'-1"	10'-0"	DOUBLE PANE	ALUM./PAINTED	COLOR MATCH TO WINDOW FRAME
F4	5'-7 7/8"	6'-7 1/2"	10'-0"	DOUBLE PANE	ALUM./PAINTED	COLOR MATCH TO WINDOW FRAME

WINDOW SCHEDULE						
NO.	SIZE		TYPE	GLASS	FINISH	REMARKS
	WIDTH	HEIGHT				
1	5' - 0"	5' - 0"	ALUM.-CLAD WOOD GLIDING WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - SLD5050
2	5' - 0"	5' - 0"	ALUM.-CLAD WOOD GLIDING WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - SLD5050
3	5' - 0"	5' - 0"	ALUM.-CLAD WOOD FIXED CASEMENT WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - CMP5050
4	5' - 0"	5' - 0"	ALUM.-CLAD WOOD FIXED CASEMENT WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - CMP5050
5	6' - 0"	5' - 0"	ALUM.-CLAD WOOD FIXED CASEMENT WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - CMP6050
6	6' - 0"	5' - 0"	ALUM.-CLAD WOOD FIXED CASEMENT WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - CMP6050
7	5' - 0"	4' - 0"	ALUM.-CLAD WOOD GLIDING WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - SLD5040
8	3' - 0"	5' - 0"	ALUM.-CLAD WOOD FIXED CASEMENT WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - CMP3050
9	5' - 0"	5' - 0"	ALUM.-CLAD WOOD GLIDING WINDOW	LOW E-4 GLASS	INTERIOR/EXTERIOR: DARK BRONZE COLOR	ANDERSEN, ARCHITECTURAL COLLECTION E-SERIES, COLONIAL GRILLE PATTERN - SLD5050



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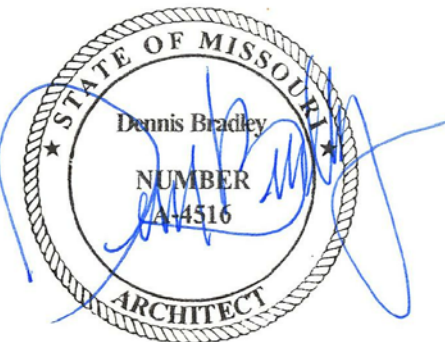
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SEAL



03.31.2020

DATE ISSUED: MARCH 17, 2020		
NO.	REVISION	DATE

[illegible]

DESIGNED BY: FCR  
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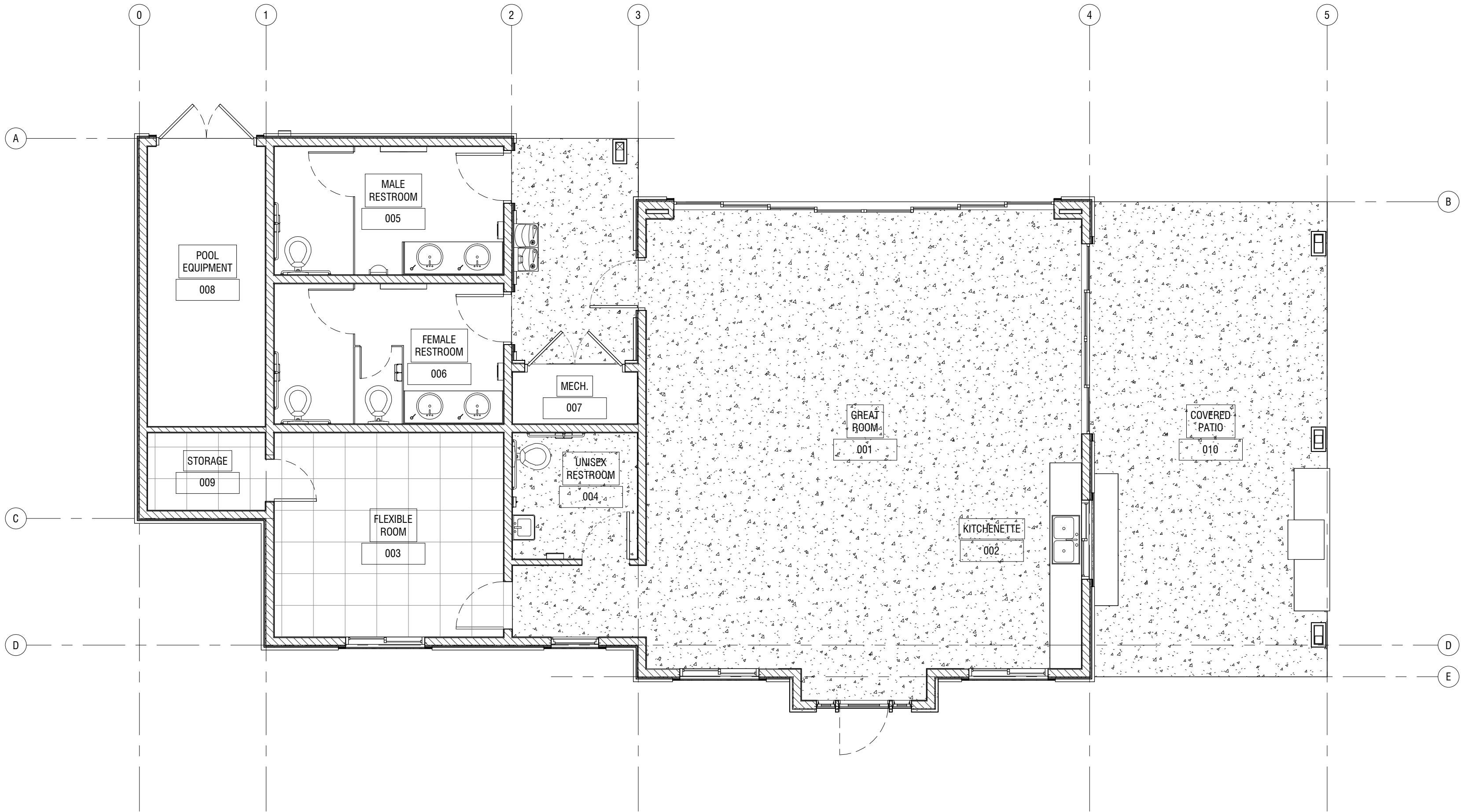
## DOOR/WINDOW SCHEDULES

# A600

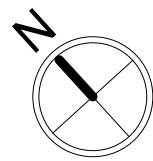


FINISH NOTES

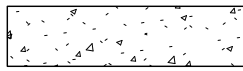
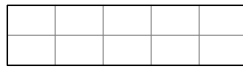

1.
- FINISH ITEMS TO BE INSTALLED PER MANUFACTURERS APPROVED PROCEDURES, METHODS AND APPLICABLE STANDARDS
2.
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION



1 GROUND FLOOR - FINISH PLAN  
3/16" = 1'-0"



MATERIAL LEGEND

-  STAINED CONCRETE FLOOR
-  CARPET TILES: 24X24
-  EPOXY FLOOR FINISH

FINISH SCHEDULE

ROOM NUMBER	NAME	FLOORING	WALL BASE	TRIM	NE-WALL	NW-WALL	SE-WALL	SW-WALL	CEILING FINISH	REMARKS
001	GREAT ROOM	STC	WDB/PT-2	-	PT-3	PT-3	PT-3	PT-3	GB/PT-2	
002	KITCHENETTE	STC	WDB/PT-2	-	-	-	PT-3	PT-3	GB/PT-2	
003	FLEXIBLE ROOM	CCT	WDB/PT-3	-	PT-2	PT-2	PT-2	PT-2	GB/PT-2	ROOM HAS 9FT TALL CEILING
004	UNISEX RESTROOM	STC	TLB-1	-	WTL-1/WTL-2	WTL-1/WTL-2	PT-2	PT-2	WGB/PT-2	ROOM HAS 9FT TALL CEILING
005	MALE RESTROOM	EPX	-	-	WTL-1	PT-2	PT-2	WTL-1	WGB/PT-2	ROOM HAS 9FT TALL CEILING
006	FEMALE RESTROOM	EPX	-	-	WTL-1	PT-2	PT-2	WTL-1	WGB/PT-2	ROOM HAS 9FT TALL CEILING
007	MECH.	EPX	RB	-	PT-2	PT-2	PT-2	PT-2	GB/PT-2	ROOM HAS 9FT TALL CEILING
008	POOL EQUIPMENT	EPX	RB	-	PT-2	PT-2	PT-2	PT-2	WGB/PT-2	ROOM HAS 9FT TALL CEILING
009	STORAGE	CCT	WDB/PT-3	-	PT-2	PT-2	PT-2	PT-2	GB/PT-2	ROOM HAS 9FT TALL CEILING
010	COVERED PATIO	STC	-	-	-	CEDAR SIDING, STAINED	-	-	CDR	RE: EXTERIOR MATERIALS FOR CEDAR SIDING & STAIN

INTERIOR FINISH LEGEND

CODE	MATERIAL	MANUFACTURER	PRODUCT	COLOR/TEXTURE	FINISH	SIZE	NOTES
FLOORING							
STC	STAINED CONCRETE						
EPX	EPOXY						
CCT	COMMERCIAL CARPET TILE	PATCRAFT (CLEAN LINES MODULAR)	CARPET TILE	ELLATION 00522		24" X 24"	
WALL-TILE							
TLB-1	TRIM - FLOOR BULLNOSE	DALTILE	LINDEN POINT	LP21 GRIGIO	MATTE	3" X 12"	1/16" GROUT GR-1
WTL-1	PORCELAIN TILE	DALTILE	LINDEN POINT	LP21 GRIGIO-WALL TILE	MATTE	10" X 14"	1/16" GROUT GR-1
WTL-2	PORCELAIN TILE	DALTILE	LINDEN POINT	LP21 GRIGIO-MOSAIC	MATTE	2" X 2"	1/8" GROUT GR-1
WTL-3	CERAMIC TILE	DALTILE	COLOR WHEEL COLLECTION	MATTE SUEDE GRAY 0782	MATTE	4" X 12"	1/16" GROUT GR-1
WALL-OTHERS							
PCS-1	TOILET PARTITIONS	ASI ACCURATE PARTITIONS	POWDER COATED STEEL	LIGHT GRAY 990			OVERHEAD BRACED
RB	RUBBER BASE	JOHNSONITE / TARKETT	THERMOSET RUBBER	23 VAPOR GREY		4"	TOELESS, TYPE TS
WDB	WOOD BASE	PACIFIC MUTUAL DOOR & WINDOW	BASE: PR430	PT-3		4 1/4"	
PAINT							
PT-2	PAINT (INTERIOR WALL/CEILING)	SHERWIN WILLIAMS	-	ALABASTER - SW 7008	FLAT	-	PROVIDE MOCK UP FOR OWNER/ ARCHITECT APPROVAL
PT-3	PAINT (BASE/TRIMS/DOOR)	SHERWIN WILLIAMS	-	REPOSE GRAY - SW 7015	SEMI-GLOSS	-	
CEILING							
GB	GYPSUM BOARD	-	-	PT-2	FLAT	-	
WGB	WATER RESISTANT GYP. BOARD	-	-	PT-2	FLAT	-	
CDR	CEDAR PLANKS	WESTERN RED CEDAR	-	SELECT KNOTTY	STAINED	3/4"	TONGUE AND GROOVE SYSTEM
GROUT							
GR-1	GROUT	MAPEI	-	27-SILVER	-	-	PROVIDE MOCK UP FOR OWNER/ ARCHITECT APPROVAL
MILL WORK							
CAB-1	CABINETRY	PROFILE OR EQUAL	-	SHERWIN WILLIAMS STAIN COLOR NEW EBONY (SW 3135)	-	-	PROVIDE SHOP-DRAWINGS FOR OWNER/ ARCHITECT APPROVAL
CTT-1	COUNTER TOP	DALTILE	QUARTZ	LINCOLN WHITE N059	MATTE	3/4"	
CTT-2	COUNTER TOP	DALTILE	QUARTZ	CABRINI GREY N051	MATTE	3/4"	
MIRR-1	BATHROOM MIRROR	SIX PRODUCTS	S-COLLECTION-SPM-C004	0048	-	-	
MIRR-2	BATHROOM MIRROR	BOBRICK	B-293 2436	-	-	24" X 36"	



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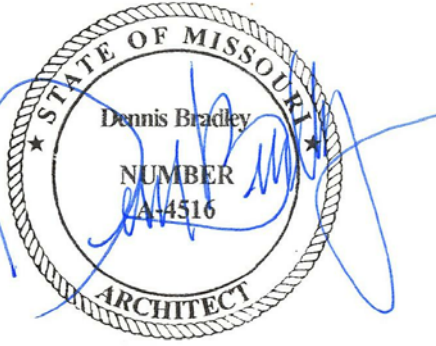
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FINISH PLAN & SCHEDULE

A800



GENERAL STRUCTURAL NOTES:

DESIGN LIVE LOADS: (Per 2012 International Building Code, Unfactored ASD values shown)

- a. Roof----- 20psf (min.); Ground Snow =20psf; Ce=1.0; Is=1.0; Ct=1.0; Cs=0.99
- b. Floor----- 100 psf
- c. Storage & Mechanical----- 125 psf
- d. Exits & Patio----- 100 PSF
- e. Wind Load----- ASD Wind Speed=93mph; Risk Cat=II; Iw=I.0; Exp. C; Clubhouse GCpi=0.18; Clubhouse:Comp & Clad = 23 psf (Wall Zone 5) and 48 psf (Roof Zone 2 & 3) Patio:GCpi = 0.55 & Comp & Clad = 56 psf (Roof Zone 2 & 3)
- f. Earthquake Load----- R.C.=II; Ie=1.00; Ss = 0.114g; S1 = 0.067g; Site Class D; Sds=0.121; Sd1=0.107; S.D.C. = B; Wood Shear Walls R=6.5

FIELD VERIFICATION:

- a. Contractor shall thoroughly inspect and survey the existing site and related infrastructure to verify conditions, dimensions, elevations, framing, etc. which affect the work shown on the drawings.
- b. Report any variations or discrepancies to the Architect and Engineer before proceeding.

FOUNDATION DESIGN:

(spread footings)

- a. Design of foundations is based upon an assumed allowable vertical bearing pressure of 1500 psf for continuous, and individual spread footings (net, for full dead plus live loads), on suitable existing soil or shallow compacted structural fill 16" below existing interior slab or 36" below exterior grade (min).
- b. Field verify all bearing soils meet assumption (per a KS registered Geotech'l Engineer) prior to placing rebar.
- c. Overexcavate 12" (min) and provide a "cushion" of structural fill for 20' along new wall footings in the natural soils beyond all transitions of bearing wall footings from natural soil bearing to structural fill bearing.
- d. Bearing surfaces should be protected from either inundation or excessive drying during the excavation process. Provide good surface drainage during construction.
- e. All loose soils or soils softened due to moisture concentration in the excavation should be removed prior to pouring concrete for foundations. Replace such unsuitable soils with structural fill as needed.
- f. If soils with moderate to high shrink/swell potential are exposed in excavations for slab or foundation bearing, undercut and replace such unsuitable soil with at least 2 feet of structural fill.
- g. All structural fill shall be appropriate for use on this project site and exhibit less than moderate shrink/swell potential. The structural fill shall not contain rocks larger than 5" and shall be placed in loose lifts that are 8" thick (or less) compacted to 95% (min) of the maximum density as determined by Standard Proctor Procedures (ASTM D 698). Moisture content shall be controlled to within a range of -3 to +2 percent around the optimum.

REINFORCED CONCRETE:

- a. All concrete design is based on current edition of the "Building Code Requirements for Reinforced Concrete" (ACI 318).
- b. All structural concrete shall have minimum 28-day compressive strength of 4000 psi (except footings, which may be 3,000 psi).
- c. Concrete shall be proportioned utilizing Type I or I/II cement (except, concrete exposed directly to soil with high sulfate content shall use Type II cement). Concrete susceptible to freezing shall be formulated for maximum frost resistance in accordance with the ACI Manual of Concrete Practice.
- d. Contractor shall notify Architect of cold joint locations prior to or during concrete forming if they differ from those shown on the plans.
- e. Cold or hot weather concreting procedures shall be provided as recommended in the ACI Manual of Concrete Practice.
- f. All exposed edges and corners shall be chamfered 0.75".
- g. All anchor bolts for beam and column bearing plates shall be placed with setting templates into forms before concrete is poured.

REINFORCING STEEL:

- a. All detailing, fabrication, and placement of reinforcing steel shall be in accordance with the ACI Manual of Concrete Practice.
- b. Reinforcing bars shall conform to the current ASTM Specification A615 and shall be grade 60, except ties, field bent bars where permitted by note on plan, or bars to be welded which shall be grade 40 or weldable grade 60.
- c. Unless noted otherwise: At splices in concrete, lap bars 36 diameters. At splices in masonry, lap bars 42 diameters. At corners, make horizontal bars continuos or provide corner bars. Around openings in walls and slabs, provide 2-#4's, extending 2'-0 beyond each edge of opening, each way.
- d. Except as noted on the drawings, minimum concrete protection for reinforcement shall be in accordance with ACI 318.
- e. Welded wire fabric shall conform to ASTM Specification A-185.

GROUT:

- a. All grout used beneath bearings shall be non-shrink, non-metallic w/ 28 day f'c = 5,000 psi.

POST-INSTALLED ANCHORS:

- a. Resin Adhesive Anchors (called for or to replace cast-in anhcor bolts called for) shall be "HILTI HIT-ICE or HIT HY-200", "Ramset/Red Head - Epcon", or approved equivalent, with these embeds for general bolts in concrete: 9" for 3/4" dia bolts, 7 1/2" for 5/8"dia and 6" for 1/2"dia. Embeds for Holdown or HSS base bolts in concrete: 17 1/2" for 7/8" dia bolts, 15" for 3/4" dia and 12 1/2" for 5/8"dia.

STRUCTURAL STEEL:

- a. Structural steel shall be detailed, fabricated, and erected in accordance with Current AISC "Specifications", and "Code of Standard Practice".
- b. Structural steel rolled W shapes shall be ASTM A992. C and MC shapes may be ASTM A36. HSS/Tube shapes shall be ASTM A500 grade B. Angles & loose plates may be ASTM A36. Pipe shapes shall be ASTM A53, Type E or S, grade B.
- c. All bolts, excluding anchor bolts (F1554, Gr 55 or better), shall conform to ASTM A325. Bolt size shall be 0.75", unless noted otherwise on the drawings.
- d. Unless shown otherwise on the drawings, framed beam connections shall consist of 3/8" tab plate or a pair of 1/4" angles using the maximum number of bolts called for in the appropriate AISC Table.
- e. All welding shall be done by a certified welder in accordance with AISC and AWS specifications and recommendations.
- f. All bolted connections are to be snug tight for bearing connections, unless noted otherwise.
- g. Unless shown otherwise on the drawings, length for cast-in anchor bolts are to be: 18" for 7/8" dia bolts, 15" for 3/4" dia, 12" for 5/8" dia, and 10" for 1/2" dia bolts. Tie bolts in with rebar or set with templates - do not 'hand stab' anchor bolts into poured/cast concrete.

SHOP DRAWINGS (DEFERRED SUBMITTALS):

- a. Furnish pdf copy by email of each set of shop and erection drawings for: structural steel and reinforcing bars to Architect and Structural Engineer for review and acceptance prior to fabrication.

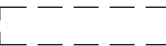






STRUCTURAL ERECTION AND BRACING REQUIREMENTS:

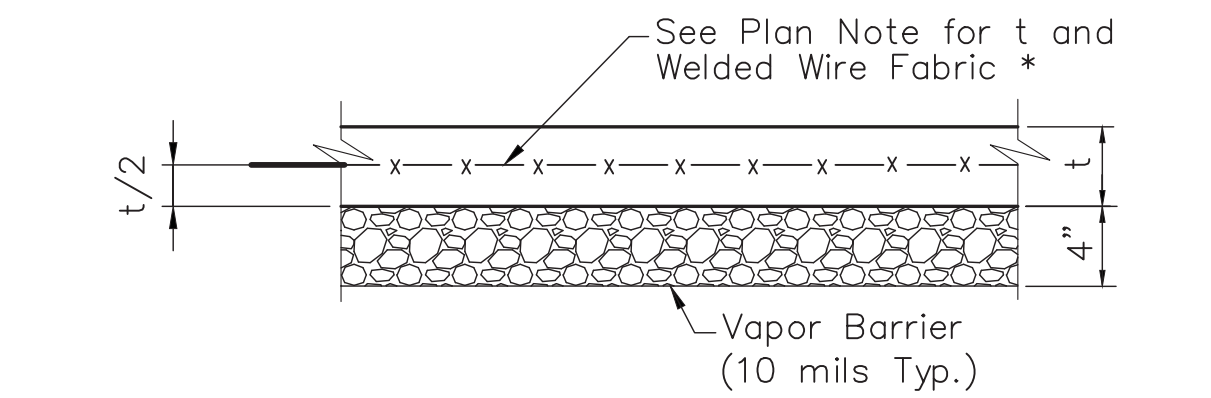
- a. The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced.
- b. The Contractor, in the proper sequence, shall provide shoring and bracing as may be required during construction to achieve the final completed structure.

SPECIAL INSPECTIONS (Structural Only):

- a. Special Inspections per the IBC (2012 Chapter 1705) that may be required for this project by the governing agency's Building Official include, but may not be limited to, the following (that are not 'lined-out'):
1. Periodic inspections of any excavated foundation bearing soil/rock depth and material
  - ~~2. Periodic inspections/tests of any structural fill material and base preparation~~
  - ~~3. Continuous inspections of any structural fill density, placement, and compaction~~
  4. Periodic inspections of any reinforcing steel (rebar) material and placement
  - ~~5. Continuous inspections of concrete sampling and placement~~
  6. Periodic inspections of concrete mix design, form work, and curing
  7. Periodic inspections of anchor bolt material and placement
  8. Periodic inspections of any post-installed anchors and placement in concrete
  9. Quality Assurance (QA) for structural steel system erection per AISC 360-10, Chapter N
  - ~~10. Periodic inspections of cold-formed steel decking material, placement and fastening~~
  - ~~11. Periodic inspections of prefabricated wood truss material, placement, bridging and fastening\*~~
- b. Special Inspector for the work noted above shall be 'third party' agent provided by Owner and approved by the governing agency's Building Official (B.O.).
- c. Quality Assurance (QA) for structural steel fabrication shall be provided per AISC 360-10, Chapter N by the fabricator's agent/inspector (if req'd by the B.O. - ref Section N7).
- d. Quality Control (QC) for structural steel fabrication and erection shall be provided per AISC 360-10, Chapter N by the respective agent/inspector for the fabricator and/or erector.

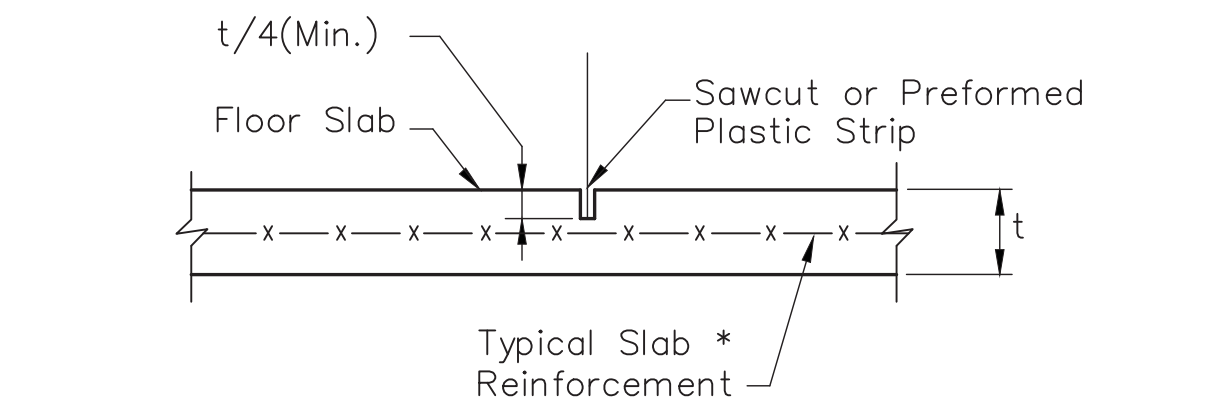
ABBREVIATIONS	
ABC = Aggregate Base Course	T.O.S. = Top of Steel
GSN = General Structural Notes	T.O.W. = Top of Wall
UNO = Unless Noted Otherwise	F.V. = Field Verify
WWF = Welded Wire Fabric	T&B = Top & Bottom
E.W. = Each Way	O.H. = Opposite Hand
O.C. = On Center	SIM = Similar
PSF = Pounds Per Square Foot	NTS = Not to Scale
O.F. = Outside Face	E.F. = Each Face
I.F. = Inside Face	

LEGEND	
	INDICATES TRENCHED CONCRETE FOOTING
	INDICATES THICKENED SLAB CONCRETE FOOTING
	INDICATES COLUMN (WOOD OR STEEL)
	INDICATES OPNG IN FLR OR ROOF. VERIFY SIZE & LOCATION w/ ARCH'L & MECH'L DWGS. MOST OPNGS & OPNG FRMG ARE NOT SHOWN ON PLAN
	INDICATES WOOD RAFTER/JOIST
	INDICATES WOOD HEADER
	INDICATES WOOD BEAM

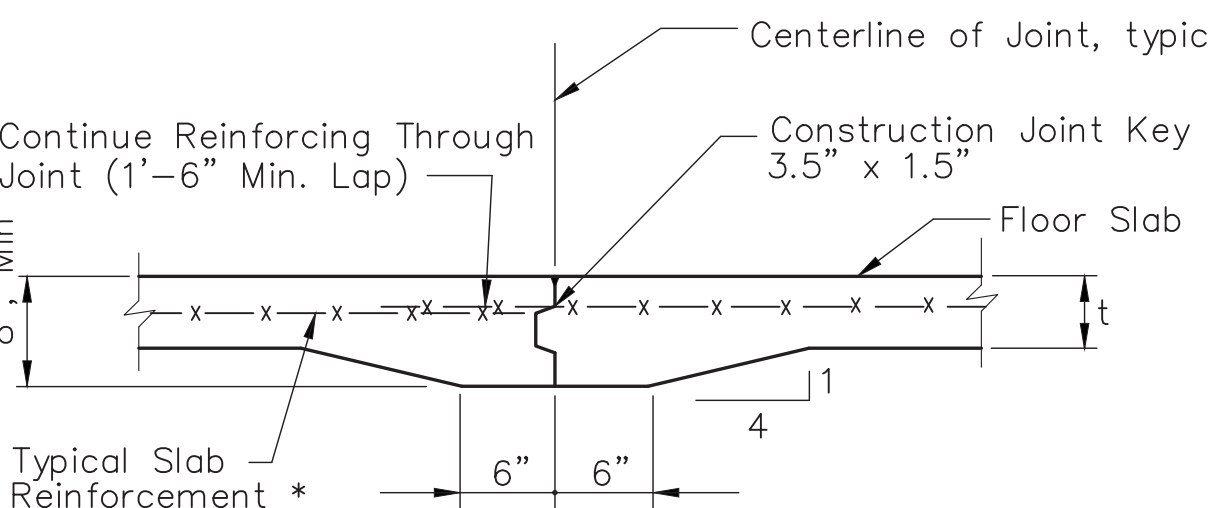


TYPICAL SLAB-ON-GRADE SECTION

Reinforced Concrete Slab on 4" Aggregate Base Course  
\* - WWF MUST BE PLACED AT SLAB MID-DEPTH



CONTRACTION JOINT



CONSTRUCTION JOINT

SLAB-ON-GRADE & CONTROL JOINTS

Provide a control joint where indicated per plan, typical.



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**WOODSIDE RIDGE CLUB HOUSE**  
342 NW Ambersham Drive  
LEES SUMMIT, MISSOURI 64081  
General Structural Notes and Slab Details

SEAL (DANIEL J. PACKARD, P.E., d.d.a.  
PACKARD ENGINEERING)



DECEMBER 27, 2018

ISSUED: DECEMBER 27, 2018

NO.	REVISION	DATE

DESIGNED BY DJP  
DRAWN BY DJP  
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S001



PLAN KEY NOTES:

- 1

TRENCHED FOOTING 16" WIDE X 30" DEEP, TYPICAL AT BUILDING SLAB EDGES. TOP OF FOOTING IS 12", MINIMUM, BELOW SLAB SURFACE. REINF w/ 2 - #5 CONT, TOP & BOTTOM.
- 2

WIDEN TRENCHED FOOTING AT THIS EXTERIOR WALL AS SHOWN. CONTINUE ALL TRENCHED FOOTING HORIZONTAL REINFORCING THROUGH WIDTH CHANGE.
- 3

2'-6" SQUARE X 16" DEEP, MINIMUM, THICKENED SLAB FOOTING CENTERED UNDER THIS BUILT-UP COLUMN. REINF w/ 4 - #4 X 2'-2" @ 8" O.C., E.W. AT 3" CLEAR FROM BOTTOM OF FOOTING.
- 4

2'-0" SQUARE X 16" DEEP, MINIMUM, THICKENED SLAB FOOTING CENTERED UNDER THIS BUILT-UP COLUMN. REINF w/ 3 - #4 X 1'-8" @ 9" O.C., E.W. AT 3" CLEAR FROM BOTTOM OF FOOTING.
- 5

PROVIDE EXTERIOR PIER/FOOTING AT THIS 'BREEZEWAY COLUMN' ELEMENT = 1'-10" X 2'-6" X 30" DEEP. TOP OF PIER/FOOTING IS AT FFE - 12". REINFORCE PER DETAIL/SECTION.
- 6

PROVIDE EXTERIOR PIER/FOOTING AT THIS 'PATIO COLUMN' ELEMENT = 3'-0" X 3'-8" X 30" DEEP. TOP OF PIER/FOOTING IS AT FFE - 12". REINFORCE PER DETAIL/SECTION.
- 7

HSS 6X6X1/4 COLUMN w/ BASE PLATE ON 1" SHIM AND GROUT AT TRENCHED FOOTING PER DETAIL. COAT/GALVANIZE ALL STEEL AND BOLTS FROM CONCRETE FOOTING UP TO 3" ABOVE FFE.
- 8

PROVIDE 12" DEPTH PEDESTAL AT ALL FRAMED WALL/COLUMN ELEMENTS AT EDGES OF PATIO AND BREEZEWAY SLABS. REINFORCE PER DETAIL. ADD FIBER REINFORCING TO ALL PEDESTAL POURS @ THE RATE OF 1.5 LB PER C.Y.
- 9

APPROXIMATE LOCATIONS OF SLAB-ON-GRADE CRACK CONTROL JOINTS ARE SHOWN THUS
- 10

DON'T CONNECT SLAB-ON-GRADE AT PATIO AND POOL ENTRY TO STEM WALLS AND ENCLOSED BUILDING SLAB EDGES, TYPICAL.
- 11

PROVIDE A DIAGONAL #4 BAR X 32" AT MID-DEPTH OF SLAB AND CENTERED NEAR EACH INSIDE CORNER OF STEM WALL-TO-SLAB JOINT, TYPICAL.
- 12

DASHED LINE WHERE SHOWN THUS INDICATES SHEAR WALL SHEATHING AT WALL FACE ABOVE PER APPLICABLE GENERAL FRAMING NOTE. SHEATH WALL ABOVE AND BELOW WINDOWS INCLUDED WITHIN THE WALL LENGTH INDICATED.
- 13

NAIL 19/32" (MIN.) APA RATED (40/20) SHEATHING INSIDE AND OUTSIDE AT THIS SHEAR WALL ABOVE w/ 10d @ 3" O.C. AT PANEL EDGES ON SUPPORTS AND @ 6" O.C. ON INTERMEDIATE SUPPORTS. SEE 4/S201
- 14

PROVIDE SIMPSON ABU66RZ POST BASE w/ 5/8" DIA ANCHOR.

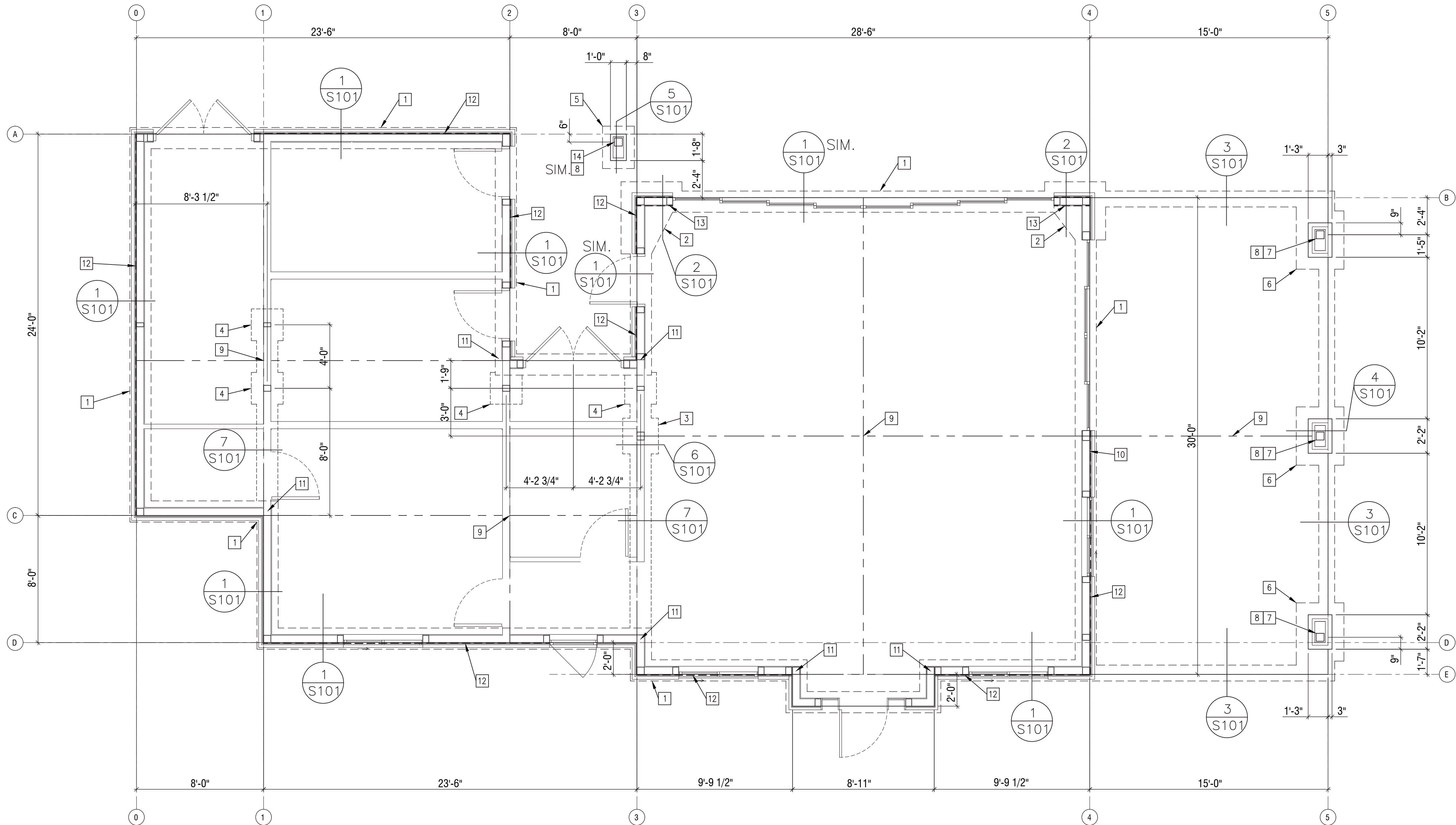
1'-4" WIDE X 16" DEEP, MINIMUM, THICKENED SLAB FOOTING CENTERED UNDER THIS BEARING WALL. REINF w/ 2 - #4 CONT @ 12" O.C., E.W. AT 3" CLEAR FROM BOTTOM OF FOOTING.

GENERAL WALL FRAMING NOTES:

1. ALL FRAMING TO BE LEFT EXPOSED OR IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED SOUTHERN PINE #1, OR BETTER.
2. ALL INTERIOR WOOD FRAMING MEMBERS SHALL BE #2 (FOR HORIZ) OR STUD (FOR VERT) GRADE KILN DRIED SOUTHERN PINE, OR BETTER, UNO. FRAMING SHALL BE CLOSELY FITTED, ACCURATELY SET TO REQUIRED LINES AND HEIGHTS AND SECURELY FASTENED IN PLACE. PROVIDE SOLID BLOCKING AT HORIZONTAL JOINTS OF PANEL EDGES IN SHEAR WALLS. ALL CONNECTIONS IN FRAMING TO BE FASTENED IN ACCORDANCE WITH THE "RECOMMENDED FASTENING SCHEDULE" IN TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. SEE ARCH'L DRAWINGS FOR BLOCKING REQUIRED AT WALLS FOR ATTACHMENT OF MISCELLANEOUS ITEMS LIKE HANDRAILS, GRAB BARS, FURNACE SHELVES, ETC.
3. BEAMS & COLUMNS THAT ARE BUILT-UP w/ MULTIPLE MEMBERS MUST BE ATTACHED BY GLUE & 2 ROWS OF 16d NAILS AT 12" O.C. FOR EACH PIECE
4. CONTRACTOR SHOULD PLACE EARLY ORDERS FOR SIMPSON OR APPROVED EQUIVALENT PRODUCTS. COSTS FOR REMEDIAL DESIGNS DUE TO UN-APPROVED ALTERNATE MATERIALS/CONNECTORS WILL BE BORNE BY CONTRACTOR.
5. SHEATH ALL INDICATED WALL STUD FACES AT SHEAR WALLS WITH 15/32", MIN, APA RATED (32/16) EXT OR EXP1 PANELS. NAIL w/ 8d @ 6" O.C. AT PANEL EDGES ON SUPPORTS AND 12 O.C. ON OTHER/INTERMEDIATE SUPPORTS, EXCEPT WHERE DETAILED OR NOTED OTHERWISE.
6. SEE SHEET S200 FOR BUILT UP COLUMNS TO BE PROVIDED IN WALL FRAMING UNDER BEAMS AND HEADERS ABOVE, TYPICAL UNLESS NOTED OTHERWISE.
7. EXTERIOR AND BEARING WALL STUDS ARE 2X6 @ 16" O.C. UP TO 11' TALL. PROVIDE DOUBLED 2X6 STUDS @ 16" O.C. FOR TALLER WALLS.

GENERAL FOUNDATION NOTES:

1. CONCRETE SLAB-ON-GRADE TO BE 4", MIN, THICK REINFORCED w/ WWF 6X6- W2.1XW2.1 AT MID-DEPTH. ALL INTERIOR FLOOR SLABS TO BE UNDERLAIN BY 10 MIL, MIN, VAPOR BARRIER AND 4", MIN, CRUSHED STONE BASE COURSE OVER COMPACTED NATIVE SOIL OR STRUCTURAL FILL ADEQUATE FOR ALLOWABLE NET BEARING STRENGTH OF 1500 PSF.
2. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND TO VERIFY DIMENSIONS SHOWN (WHICH ARE TO OUTSIDE FACE OF STUD OR 'STOREFRONT' WALL OR COLUMN CENTERLINE).
3. SEE DETAILS ON SHEET S001 FOR CRACK CONTROL JOINTS TO BE SAWN OR FORMED (AT CONTRACTOR'S OPTION) INTO SLAB-ON-GRADE WHERE SHOWN.



1  
S100

FOUNDATION AND WALL PLAN

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



ARCHITECT  
B + A ARCHITECTURE  
100 W 31ST STREET, SUITE 100  
KANSAS CITY, MO 64108  
PH: 816-753-6100

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OLSSON  
1301 BURLINGTON ST, SUITE 100  
NORTH KANSAS CITY, MO 64116  
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STRUCTURAL ENGINEER  
PACKARD ENGINEERING  
21021 OAK DRIVE  
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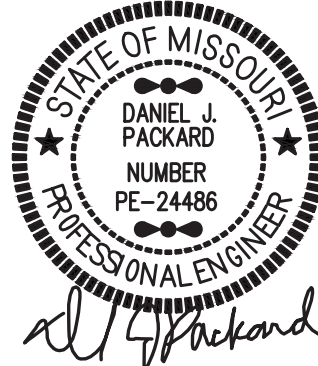
WOODSIDE RIDGE CLUB HOUSE

342 NW Ambersham Drive  
LEES SUMMIT, MISSOURI 64081

Foundation and Wall Framing Plan and

Notes

SEAL (DANIEL J. PACKARD, P.E., d.b.a. PACKARD ENGINEERING)



ISSUED: DECEMBER 27, 2018

NO.	REVISION	DATE

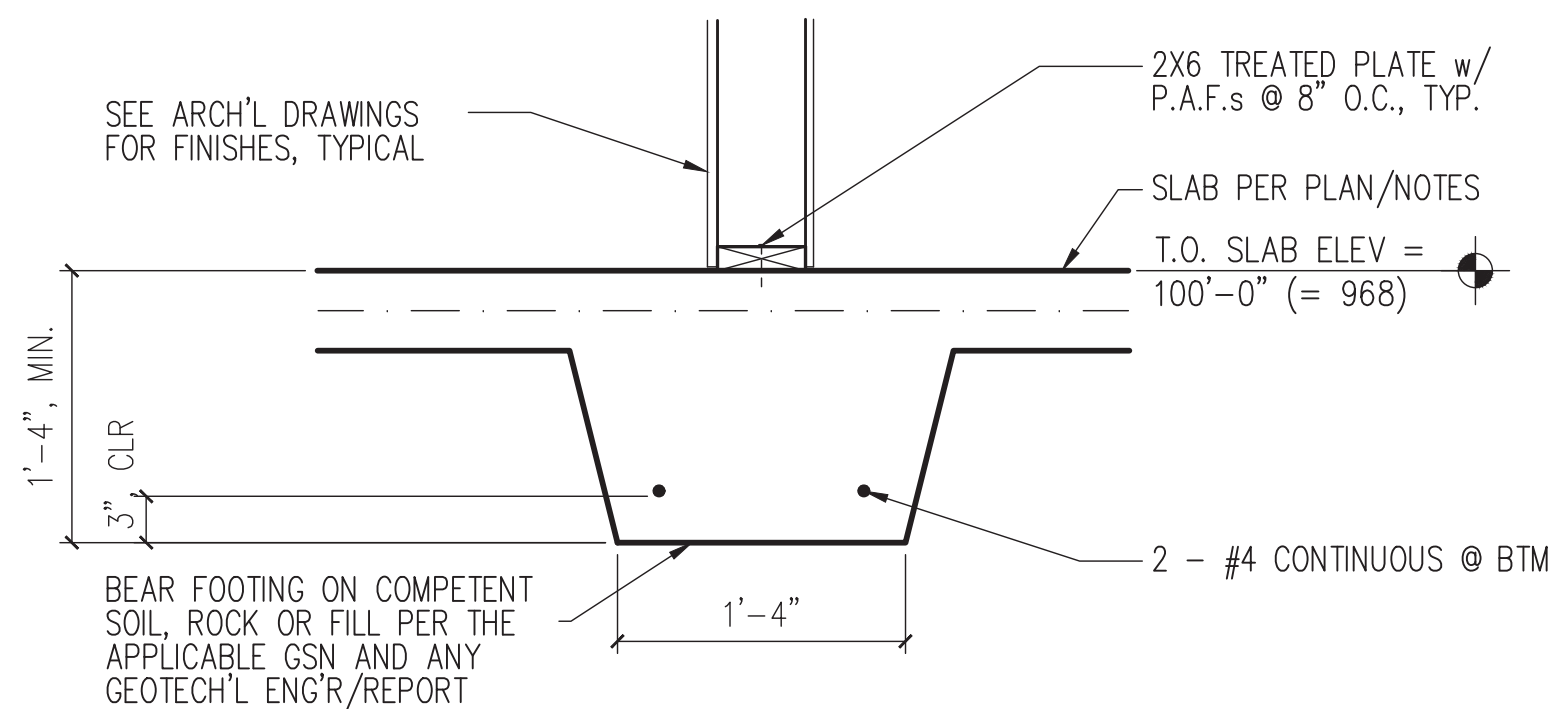
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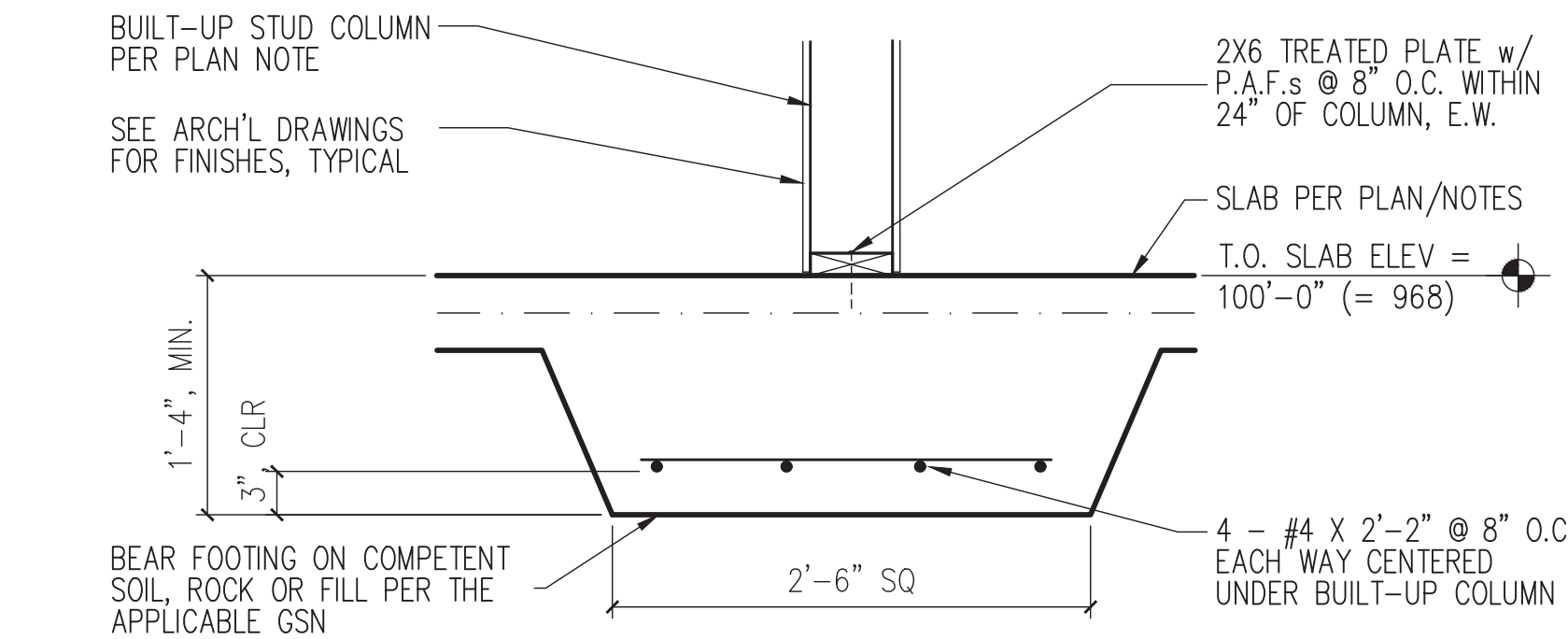




7  
S101

INT'R THICKENED SLAB FOUNDATION SECTION

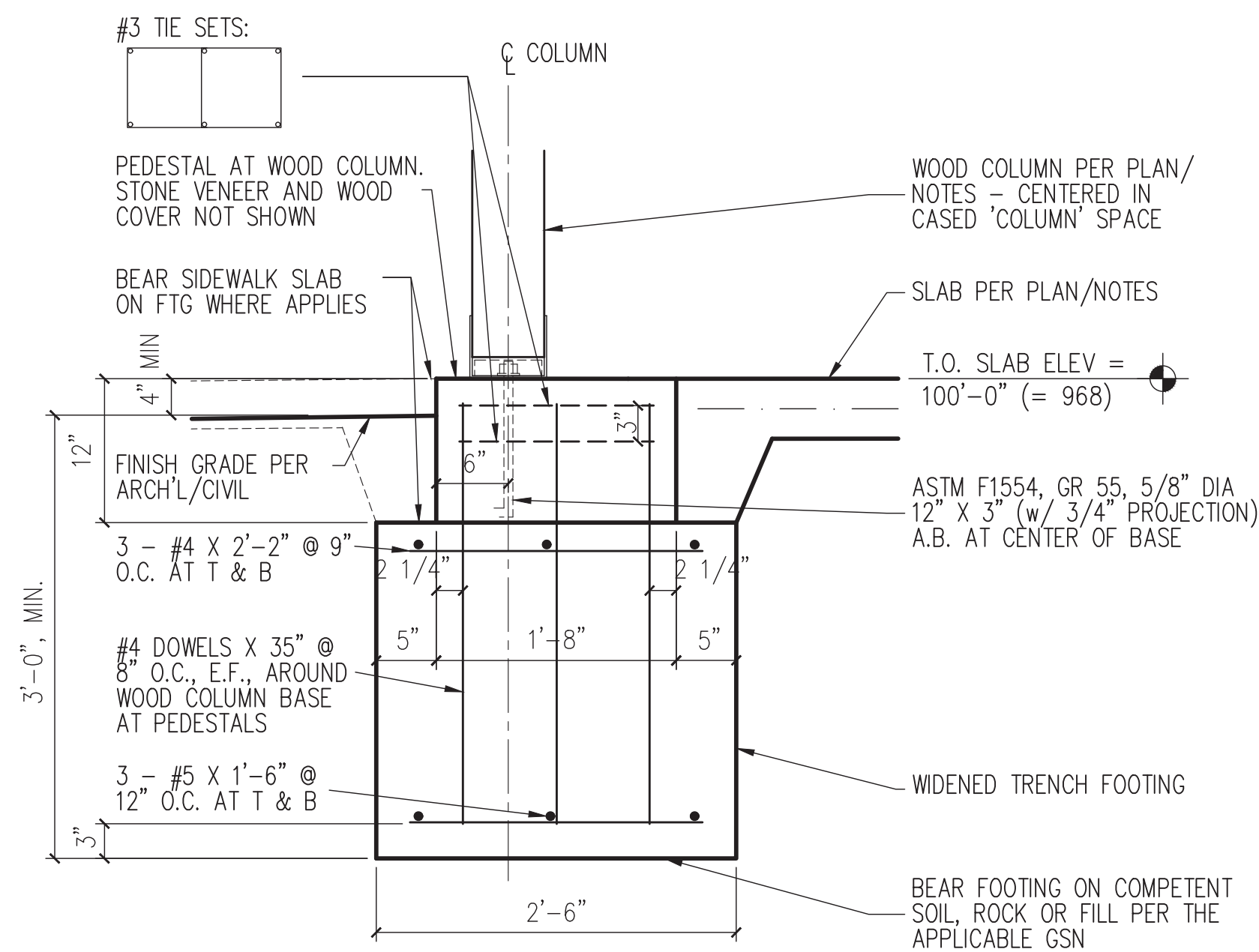
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6  
S101

INT'R THICKENED SLAB FOOTING SECTION

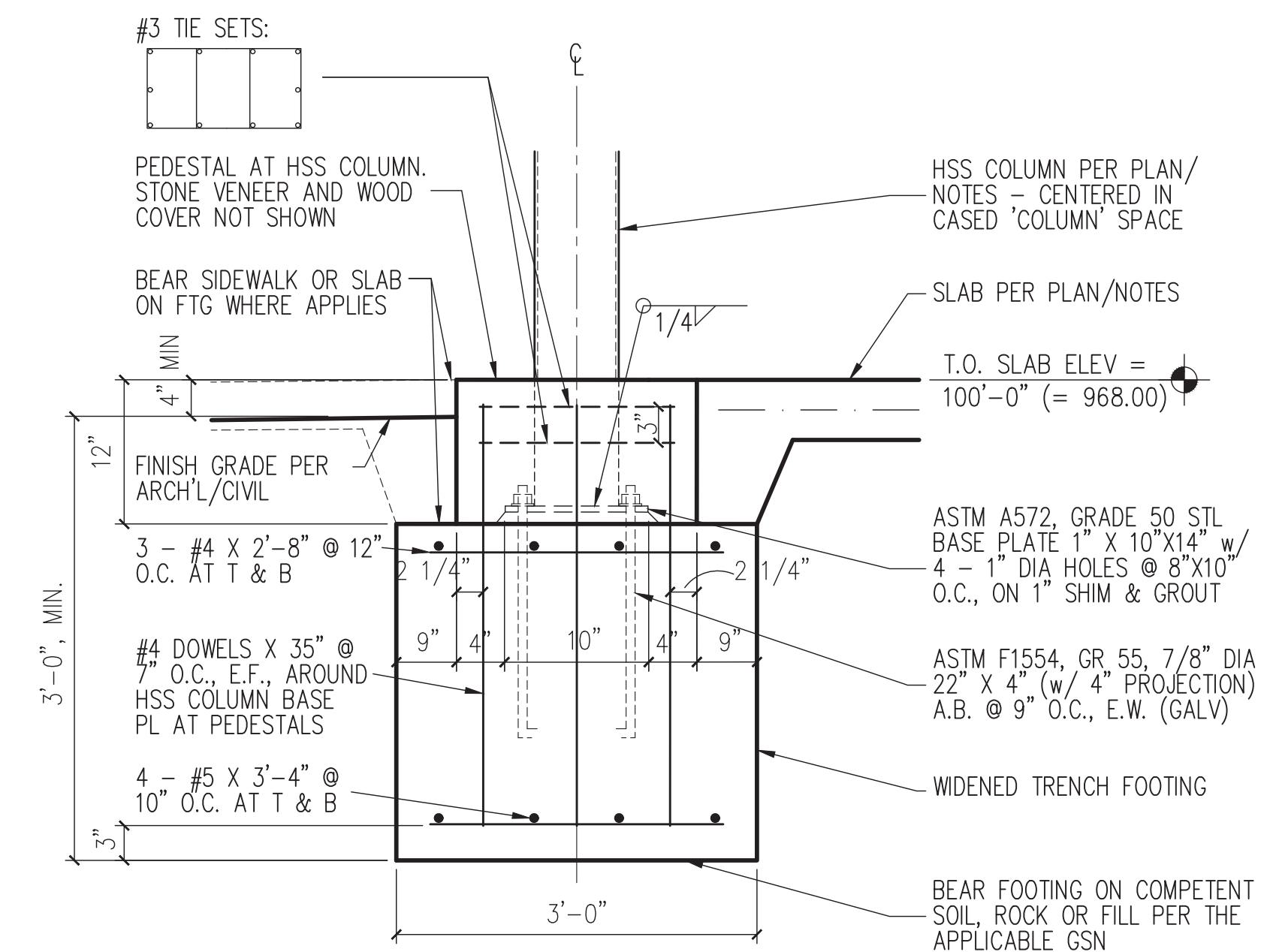
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5  
S101

PATIO WOOD COLUMN FOUNDATION SECTION

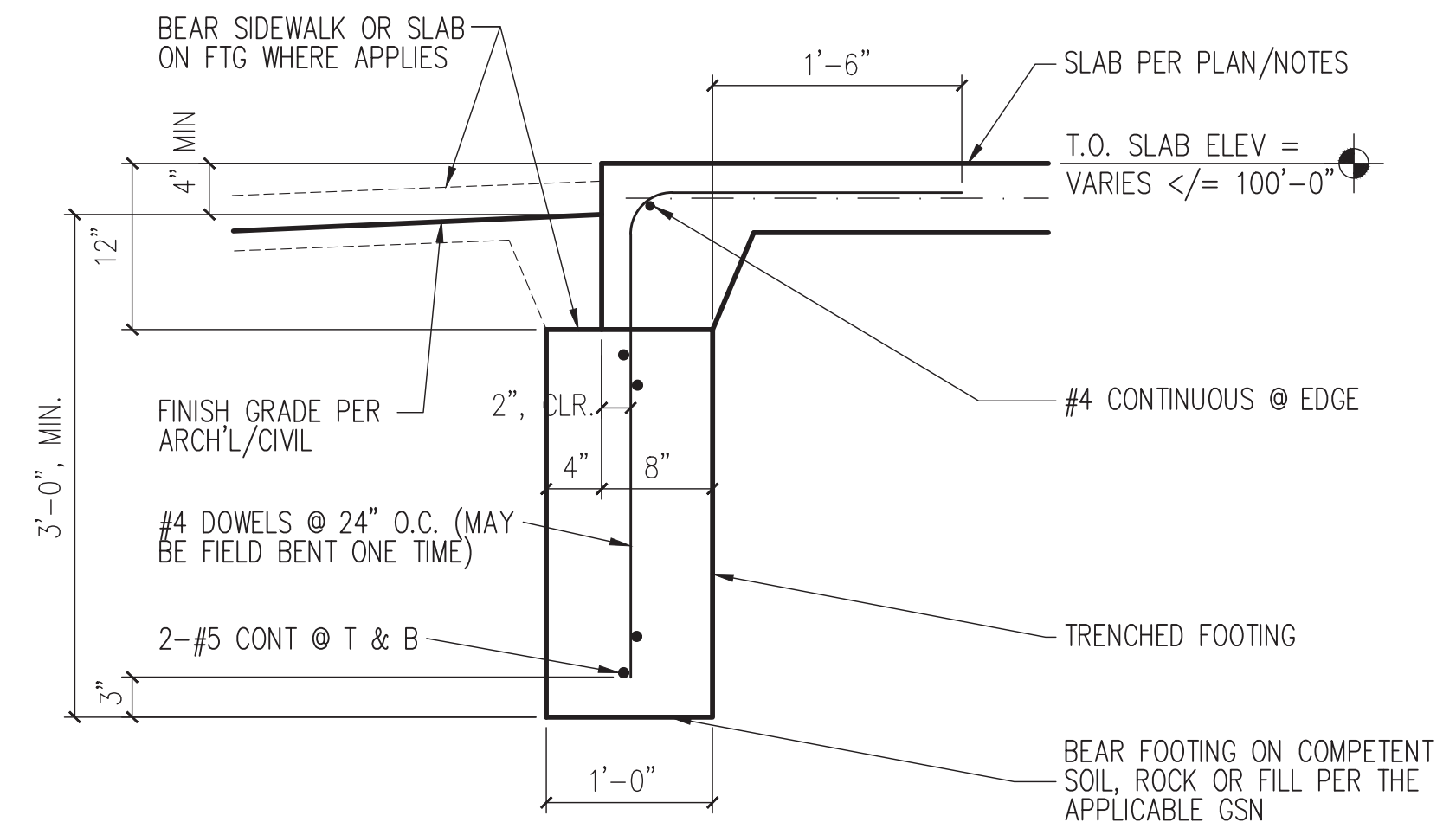
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4  
S101

PATIO HSS COLUMN FOUNDATION SECTION

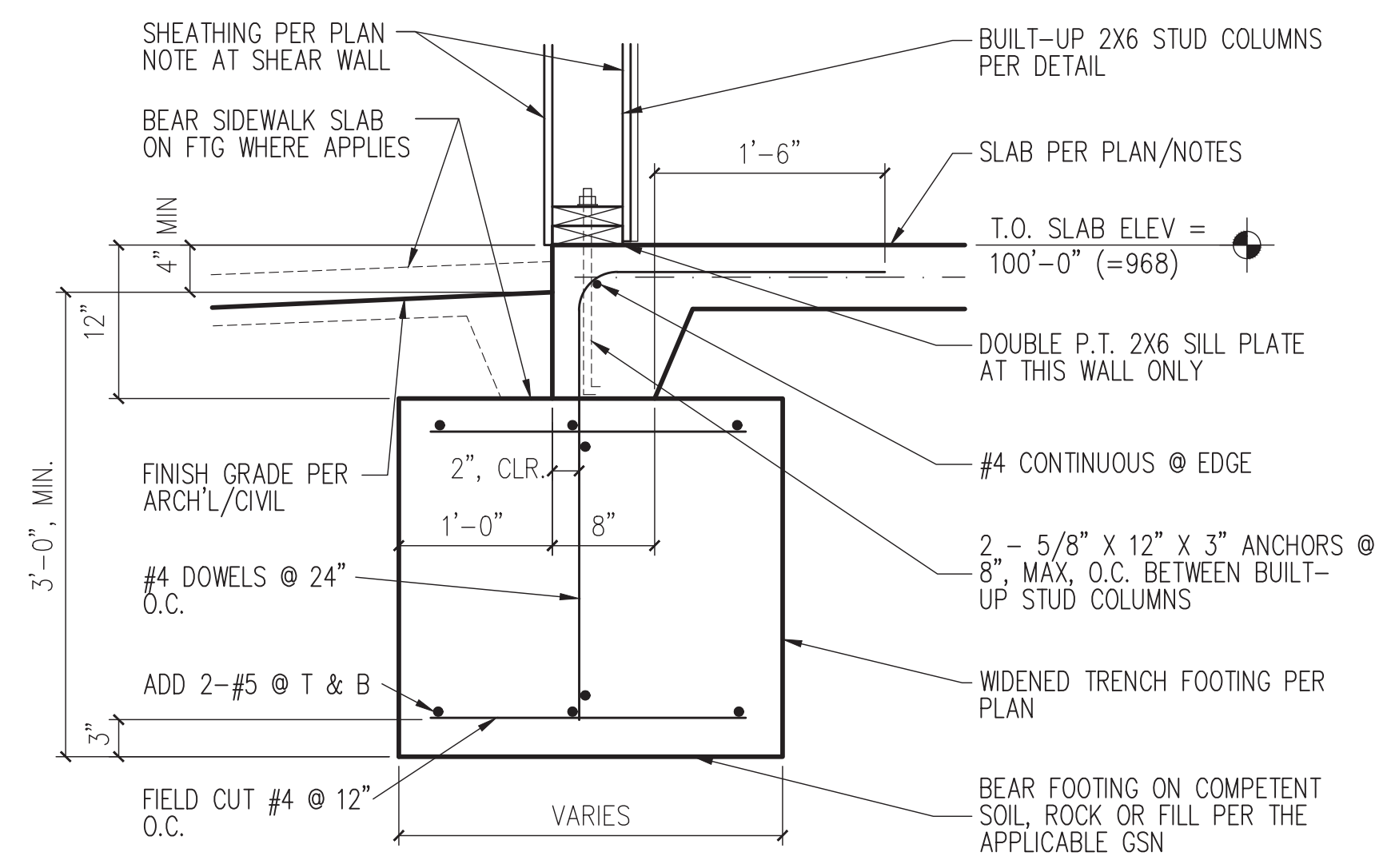
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3  
S101

PATIO SLAB EDGE FOUNDATION SECTION

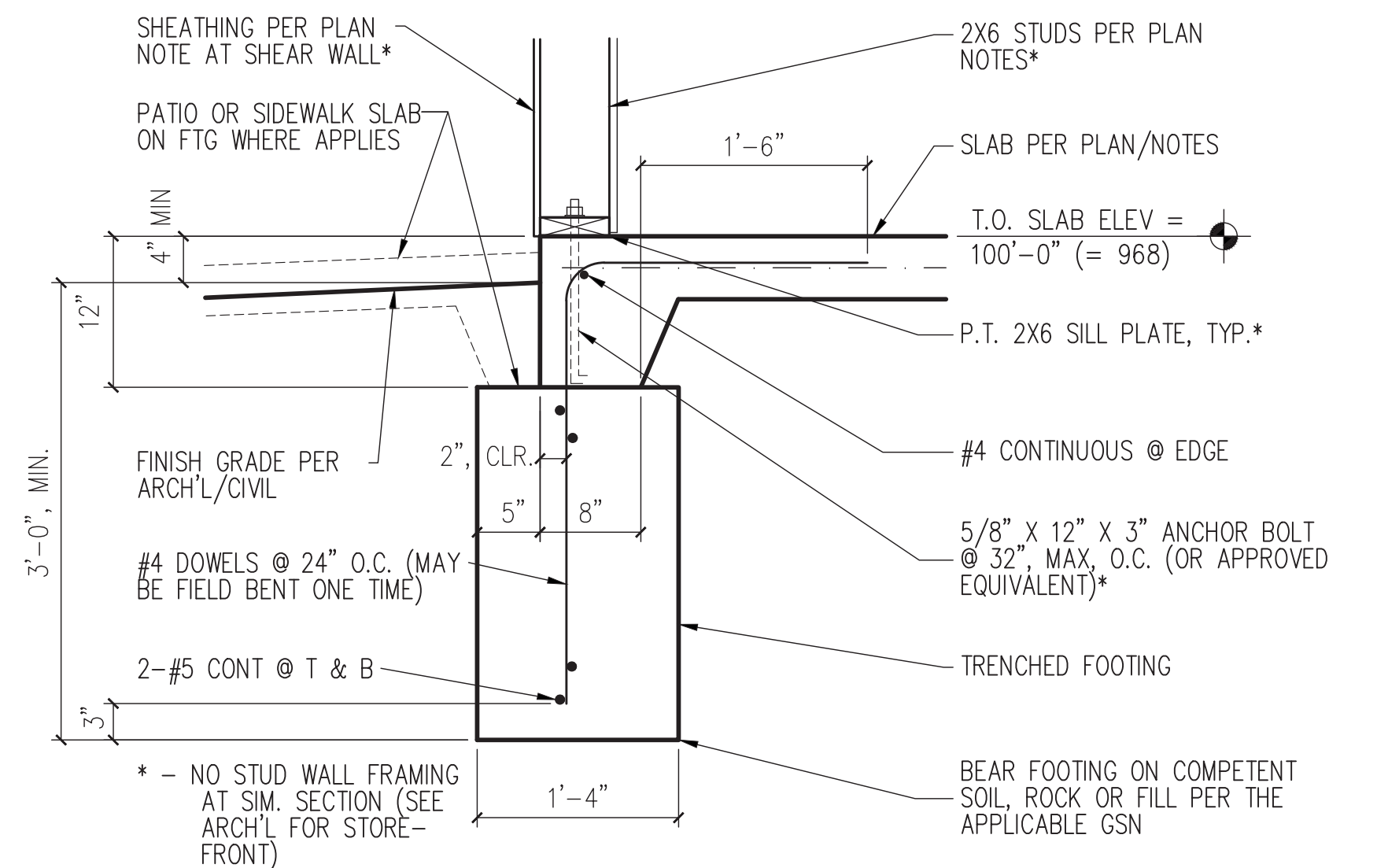
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2  
S101

EXT'R SHEAR PIER/WALL FOUNDATION SECTION

SCALE = NONE



1  
S101

EXTERIOR WALL FOUNDATION SECTION

SCALE = NONE



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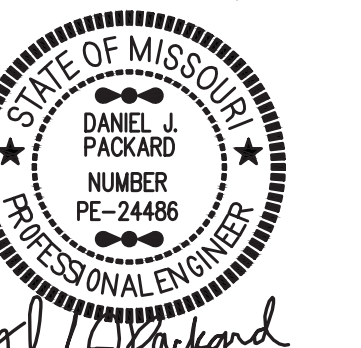
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Foundation Sections

SEAL (DANIEL J. PACKARD, P.E., d.d.a.  
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ISSUED: DECEMBER 27, 2018

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S101



PLAN KEY NOTES:

- 1

TYPICAL ROOF DECKING = 15/32", MIN, APA RATED (32/16) EXT, OR EXP 1, SHEATHING. CLIP OR BLOCK ALL UNSUPPORTED PANEL EDGES. NAIL w/ 8d @ 6" O.C. AT PANEL EDGES ON SUPPORTS AND @ 12" O.C. ON OTHERS.
- 2

2X10 RAFTERS @ 16" (+/-) O.C., TYPICAL WHERE SHOWN THUS (UNLESS NOTED OTHERWISE). ALIGN TO BEAR DIRECTLY OVER STUD(S) AT EXTERIOR FRAMED WALLS, TYPICAL. DOUBLE WHERE SHOWN.
- 3

2X10 'OUTRIGGER' FRAMING @ 24" (MAX) O.C. TO BE USED IN ROOF GABLE END OVERHANG FRAMING, TYPICAL.
- 4

2X10 LEDGER w/ LEDGERLOKS INTO STUDS @ 16" O.C. AT LOWER ROOF CONNECTION TO UPPER EXTERIOR WALL.
- 5

HEADER = 3 - 2X6 (MIN), TYPICAL UNLESS NOTED OTHERWISE. BEAR EACH END IN WALL ON 1 - 2X6 JACK STUD (WITH 1 - 2X6 KING STUD). KING STUDS TO BE FULL HEIGHT OF WALL.
- 6

HEADER = 3 - 2X8. BEAR EACH END IN WALL ON 1 - 2X6 JACK STUD (WITH 1 - 2X6 KING STUD). KING STUDS TO BE FULL HEIGHT OF WALL.
- 7

ADD 3 - 2X6 PAST KING STUD HERE TO FORM BUILT-UP COLUMN AT THIS END OF HEADER UNDER BEAM END ABOVE.
- 8

HEADER = 3 - 1 3/4"x16" LVL AT MAIN ROOM. BUILD EACH END INTO 2'-0" SHEAR WALL/PIER PER DETAIL.
- 9

HEADER = 3 - 2X10. BEAR EACH END IN WALL ON 2 - 2X6 JACK STUDS (WITH 1 - 2X6 KING STUD). KING STUDS TO BE FULL HEIGHT OF WALL.
- 10

ADD 2 - 2X6 PAST KING STUD HERE TO FORM BUILT-UP COLUMN AT THIS END OF HEADER UNDER BEAM END ABOVE.
- 11

ROOF BEAM = 3 - TREATED 2X8 w/ 2 - 1/2" PLYS. BEAR INTERIOR END IN WALL ON 2 - 2X6 (MIN.) BUILT-UP STUD COLUMN. BEAR EXTERIOR END ON TREATED 6X6 BUILT-UP COUNM WITH SIMPSON BC6 CAP.
- 12

3 - TREATED 2X10 FLUSH SHEAR DRAG/TRANSFER BEAM. FACE HANG RAFTERS FROM BEAM EACH SIDE WITH SIMPSON LUS210 EACH. BEAR EACH END OF BEAM ON BUILT-UP 3 (MIN) - 2X6 STUD COLUMN IN EXTERIOR WALLS.
- 13

3 - 2X10 BEAM UNDER DORMER SIDE WALLS. BEAR UPPER END OF BEAM IN SIMPSON HUS210-3 FACE HANGER AT RIDGE BEAM.
- 14

2 - 2X10 HEADER AT DORMER. BEAR EACH END IN SIMPSON LUS210-2 HANGER AT DORMER SIDE BEAM.
- 15

2X12 VALLEY AT DORMER.
- 16

2X12 RIDGE AT DORMER.
- 17

2 - 1 3/4" X 14" LVL VALLEY GIRDER. BEAR RIDGE END IN SIMPSON LSSR410Z SLOPE/SKEW HANGER.
- 18

1 3/4" X 14" LVL VALLEY. BEAR UPPER END IN SIMPSON IUS1.81/14 HANGER.
- 19

3 - 2X6 BUILT-UP COLUMN SUPPORTING DORMER RIDGE OVER HEADER.
- 20

3 - 2X6 BUILT-UP HEADER OVER EACH WALL OPENING AT ENTRY. PROVIDE TWO KING STUDS AT EACH END OF HEADER.
- 21

3 - TREATED 2X12 BEAM. BEAR INTERIOR END ON 3 - 2X6 BUILT-UP COLUMN IN EXTERIOR WALL. BEAR EXT'R END IN SIMPSON SIMPSON ECCOQ4.62-SDS2.5 COLUMN CAP WELDED TO TOP OF HSS6X6X1/4 STEEL COLUMN.
- 22

2 - 1 3/4" X 11 1/4" LVL RIDGE BEAM. BEAR INTERIOR END ON 3 - 2X6 BUILT-UP COLUMN IN EXTERIOR WALL. BEAR EXTERIOR END IN SIMPSON SIMPSON ECCOQ4.62-SDS2.5 COLUMN CAP WELDED TO TOP OF HSS6X6X1/4 STEEL COLUMN. BEAM IS TO BE FLUSH FRAMED WITH RAFTERS.
- 23

2 - TREATED 2X8 TOP & BOTTOM CHORDS AT BUILT-UP 'TRUSS'. GLUE AND SCREW EACH 2X8 TO OUTSIDE FACE OF 2 - TREATED 2X6 BUILT-UP DIAGONAL 'TRUSS' WEB. FASTEN TO OTHER CHORD AND HSS6X6 CENTER/VERT w/ SIMPSON LTP5, SCREWED, AT EACH FACE.
- 24

3 - 1 3/4" X 18" LVL RIDGE BEAM OVER MAIN ROOM (FLUSH FRAMED w/ RAFTERS). BEAR EACH END ON BUILT-UP 6 - 2X6 COLUMN IN FRAMED WALL.
- 25

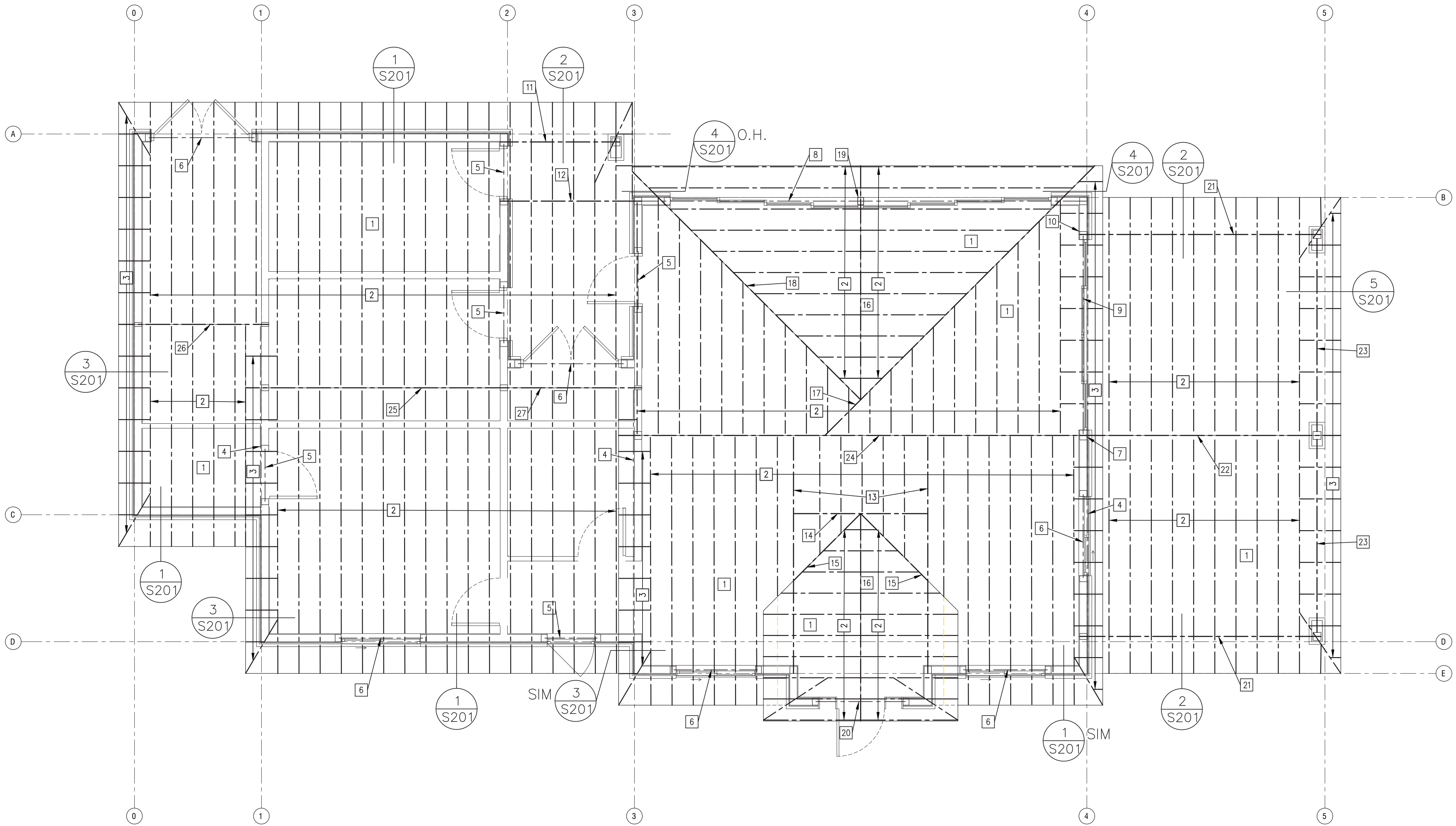
2 - 1 3/4" X 11 1/4" LVL RIDGE BEAM OVER REST ROOM (FLUSH FRAMED w/ RAFTERS). BEAR EACH END OF BEAM ON 5 - 2X6 BUILT-UP COLUMN.
- 26

2 - 2X12 RIDGE BEAM OVER EQUIPMENT ROOM (FLUSH FRAMED w/ RAFTERS). BEAR EXTERIOR END OF BEAM IN GABLE WALL ON 3 - 2X6 BUILT-UP COLUMN. BEAR INTERIOR END ON 4 - 2X6 BUILT-UP COLUMN.
- 27

EXTEND 1 - 1 3/4" X 11 1/4" LVL FROM RESTROOM RIDGE BEAM OVER MECH'L ROOM. BEAR ON 2 - 2X6 BUILT-UP COLUMN IN MAIN ROOM WALL.

GENERAL ROOF FRAMING NOTES:

1. WOOD 2X FRAMING AT PATIO AND BREEZEWAY ROOF, AND ANY TO BE LEFT EXPOSED OTHERWISE, SHALL BE PRESSURE TREATED SOUTHERN PINE #1, OR BETTER. BOX-IN EXTERIOR WOOD AND STEEL FRAMING PER ARCHITECT, TYPICAL.
2. INTERIOR WOOD FRAMING MEMBERS SHALL BE #2 KILN DRIED SOUTHERN PINE OR BETTER, UNO. FRAMING SHALL BE CLOSELY FITTED, ACCURATELY SET TO REQUIRED LINES AND HEIGHTS AND SECURELY FASTENED IN PLACE. PROVIDE SOLID BLOCKING AT ALL JOINTS IN WALL SHEATHING MATERIALS. UNSUPPORTED ROOF DECKING JOINTS MUST BE CLIPPED IF NOT BLOCKED. ALL CONNECTIONS IN FRAMING TO BE FASTENED IN ACCORDANCE WITH THE "RECOMMENDED FASTENING SCHEDULE" IN TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE.
3. "LVL" = MICROLLAM (1.9E LAMINATED VENEER LUMBER); "LSL" = TIMBERSTRAND (1.55E LAMINATED STRAND LUMBER) AND "PSL" = PARALLAM (2.0E PARALLEL STRAND LUMBER). ALL ARE BY iLEVEL/WEYERHAUSER. APPROVED EQUIVALENTS MAY BE USED.
4. BEAMS & COLUMNS THAT ARE BUILT-UP w/ MULTIPLE MEMBERS MUST BE ATTACHED BY GLUE & 2 ROWS OF 16d NAILS AT 12" O.C. FOR EACH PIECE
5. CONTRACTOR SHOULD PLACE EARLY ORDERS FOR LVL, LSL, PSL, SIMPSON OR APPROVED EQUIVALENT PRODUCTS. COSTS FOR REMEDIAL DESIGNS DUE TO UN-APPROVED ALTERNATE MATERIALS/CONNECTORS WILL BE BORNE BY CONTRACTOR.
6. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND TO VERIFY DIMENSIONS SHOWN (WHICH ARE TO OUTSIDE FACE OF STUD OR COMMON WALL CENTERLINE).
7. PROVIDE 2X6 @ 16" O.C CEILING JOISTS SPANNING UP TO 11' AND 2X8 @ 16" O.C. FOR SPANS BEYOND THAT TO 14'. NO SEPARATE CEILING JOISTS AT MAIN ROOM OR PATIO/BREEZEWAY.
8. PROVIDE A SIMPSON L90 TO FASTEN THE TOP END OF EACH RAFTER TO THE RIDGE BEAM, TYPICAL.
9. THE SIMPSON H2A TIE CALLED FOR ON THE DRAWINGS TO FASTEN ROOF FRAMING DIRECTLY TO THE BEARING WALL STUD(S) SHOULD STILL BE USED WHERE THE FRAMING AND STUDS ALIGN.
10. WHEREVER ROOF FRAMING DOES NOT LINE UP DIRECTLY OVER BEARING WALL STUDS, THE ROOF FRAMING MEMBER IS TO BE FASTENED TO THE BEARING WALL DOUBLE TOP PLATE WITH A SIMPSON H2.5A AND THE DOUBLE TOP PLATE IS TO BE FASTENED TO EACH UNALIGNED BEARING WALL STUD (SINGLE OR DOUBLE) WITH A SIMPSON TSP (PLACED AT THE SAME FACE OF WALL THAT H2A IS SHOWN ON.



1

S200

ROOF FRAMING PLAN

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

NORTH



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WOODSIDE RIDGE CLUB HOUSE

342 NW Amersham Drive  
LEE'S SUMMIT, MISSOURI 64081

Roof Framing Plan and Notes

SEAL (DANIEL J. PACKARD, P.E., d.b.a. PACKARD ENGINEERING)

STATE OF MISSOURI

DANIEL J. PACKARD

NUMBER PE-24486

PROFESSIONAL ENGINEER

ISSUED: DECEMBER 27, 2018

NO.	REVISION	DATE

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DRAWN BY DJP  
CHECKED BY DJP

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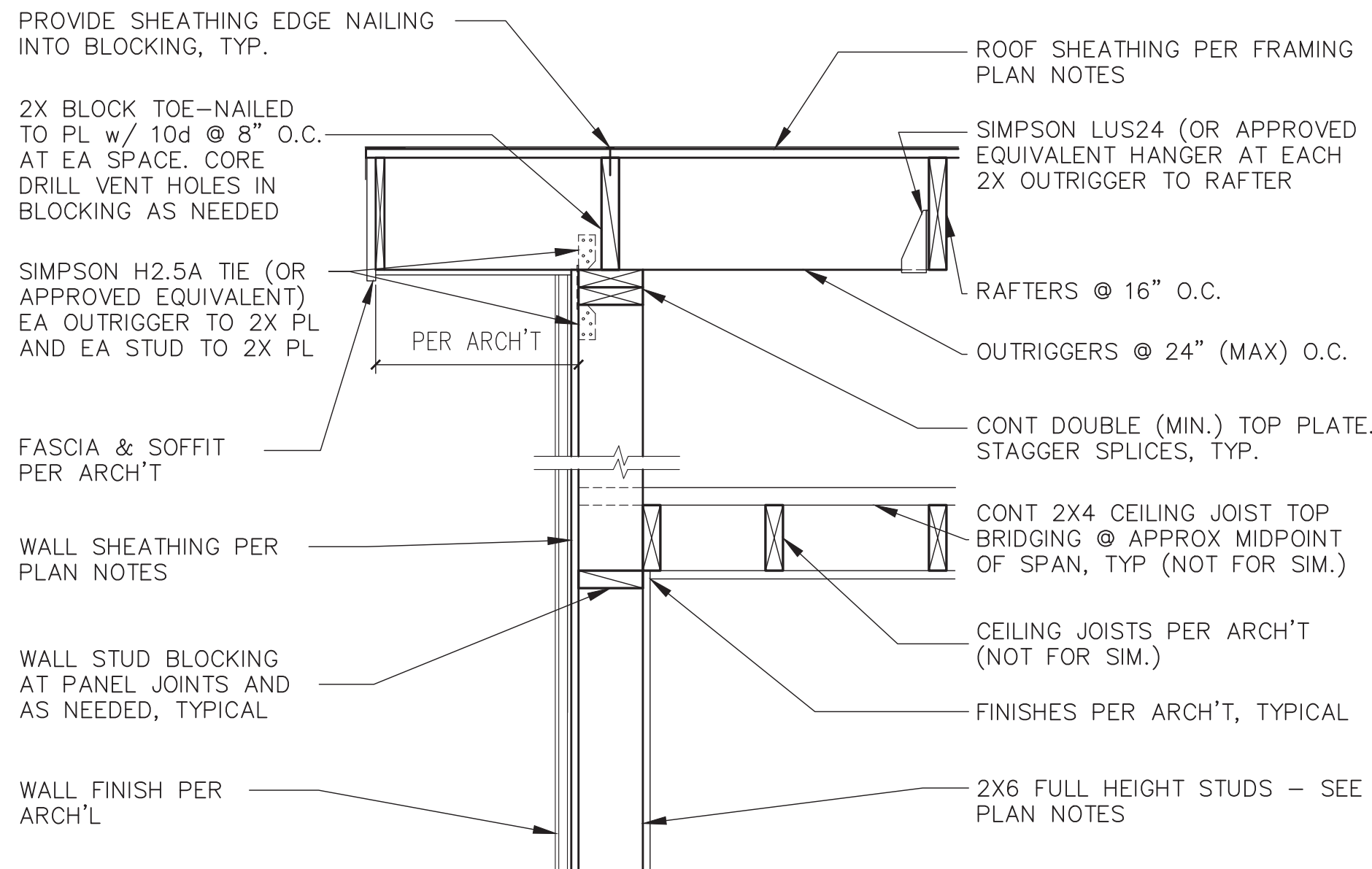
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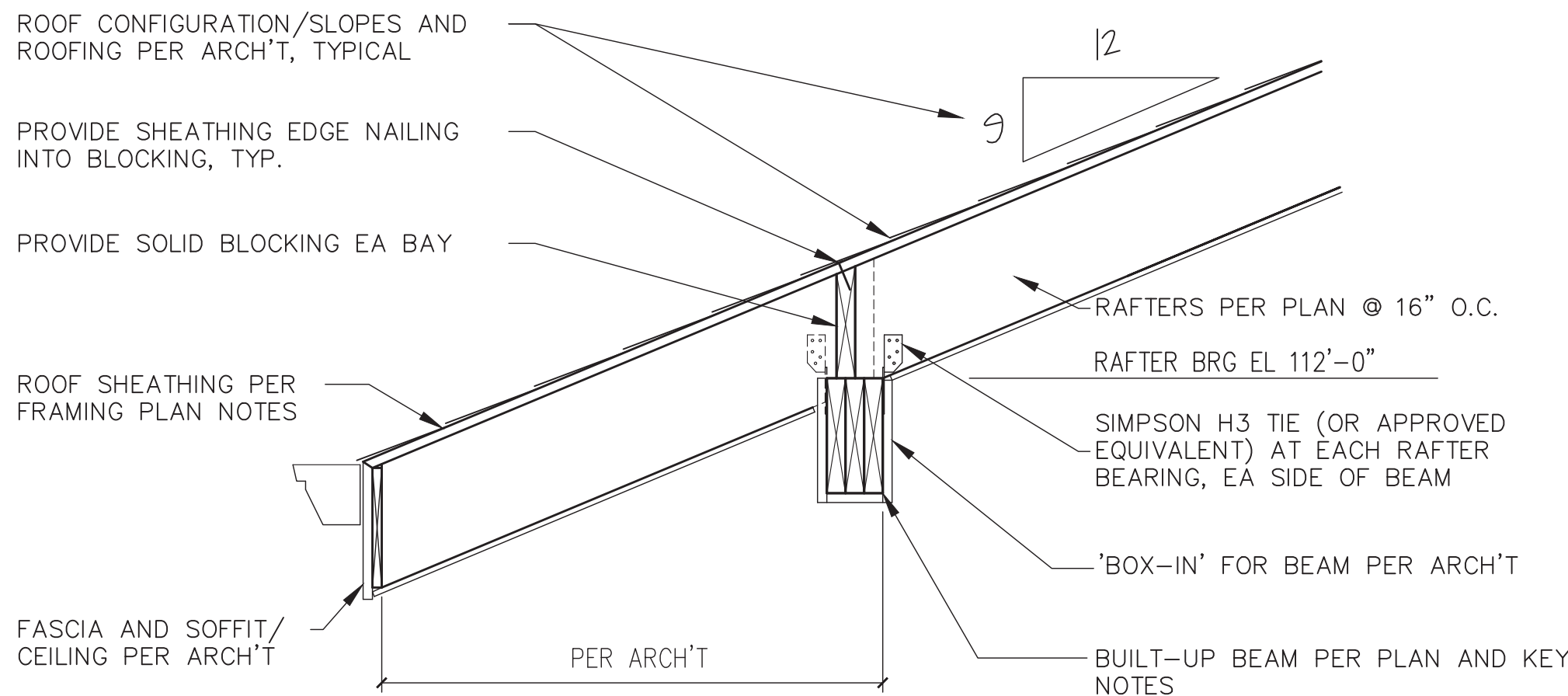
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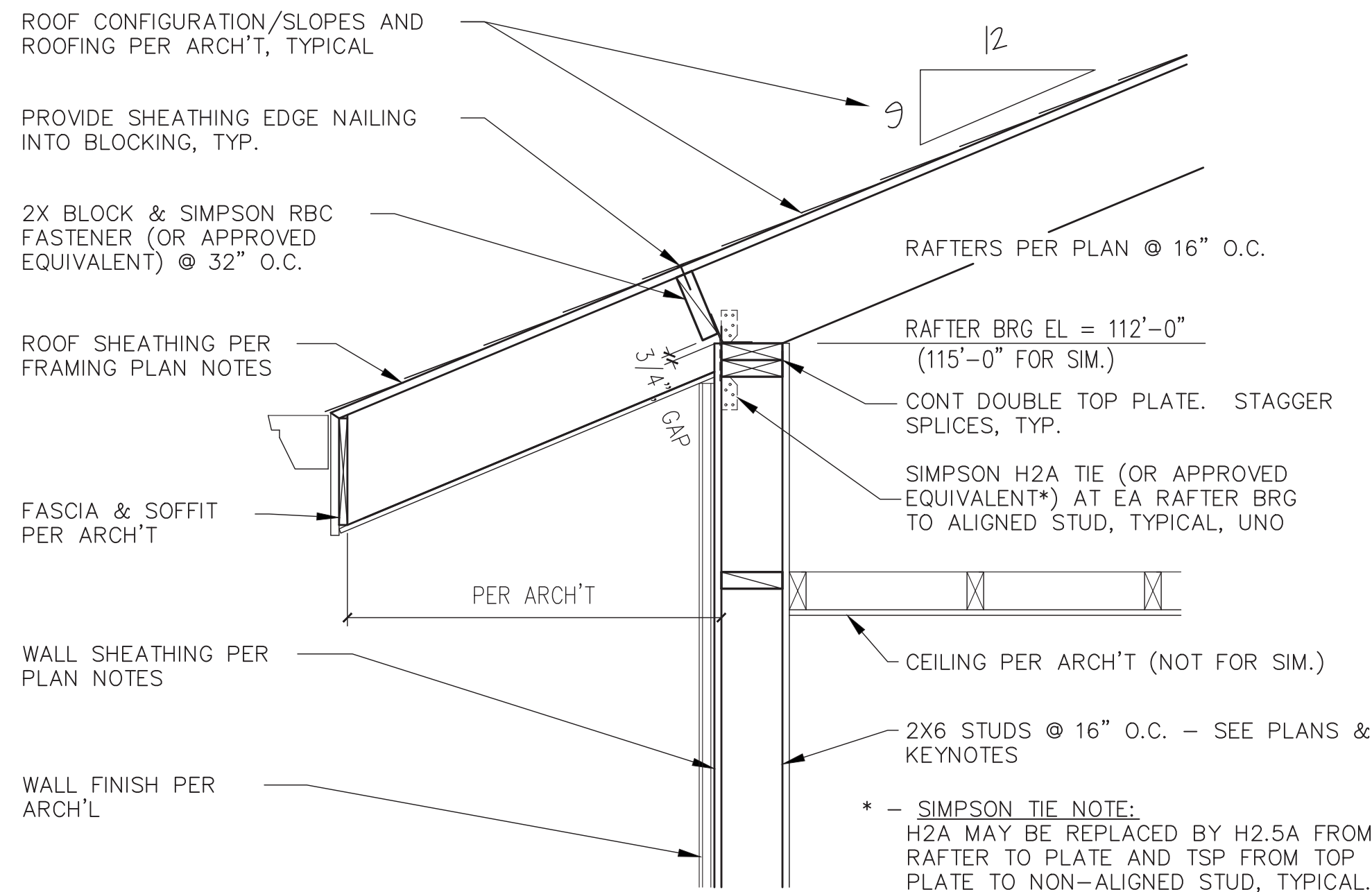
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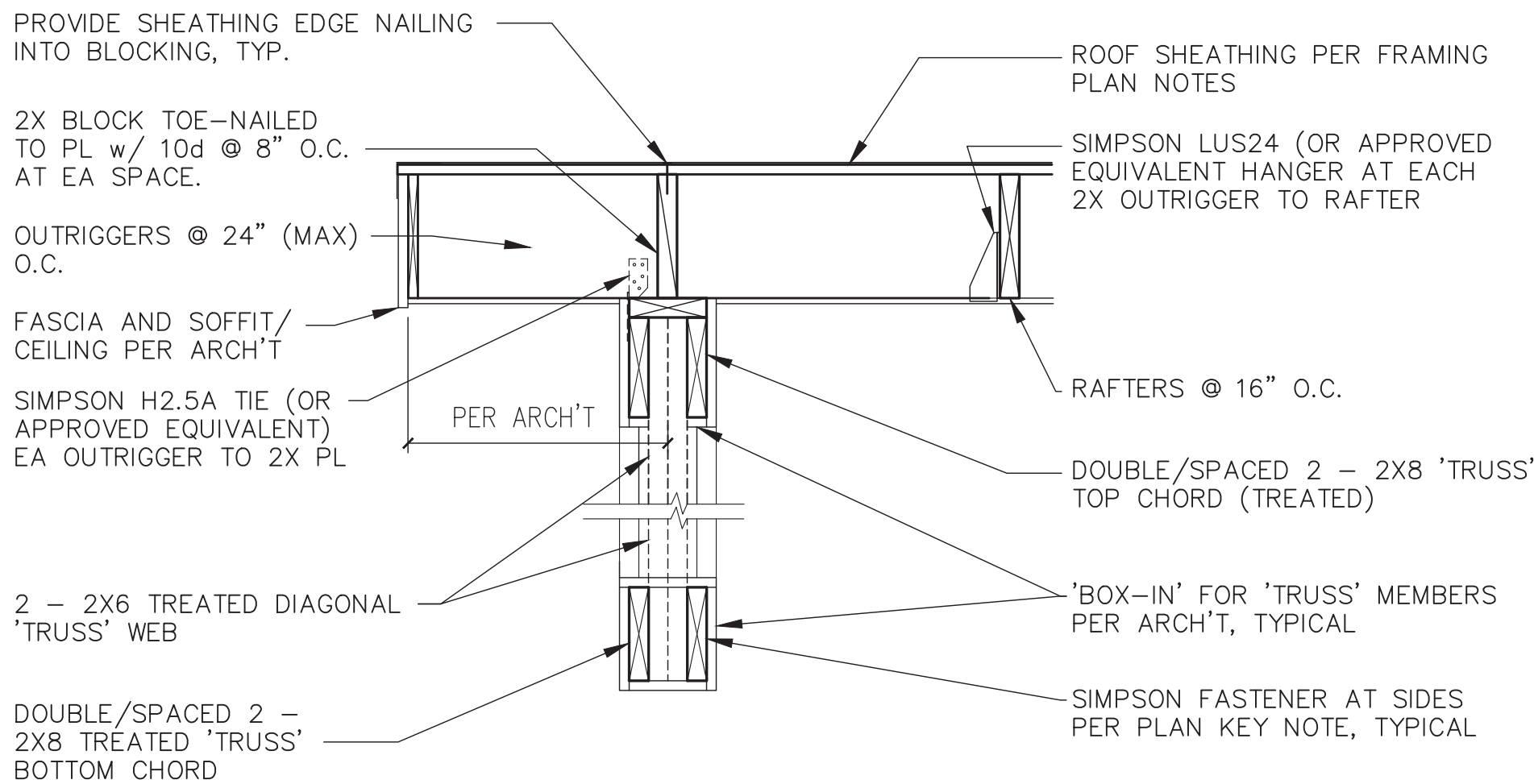
3  
S201  
RAFTER BEARING ON GABLE WALL SECTION  
SCALE = NONE



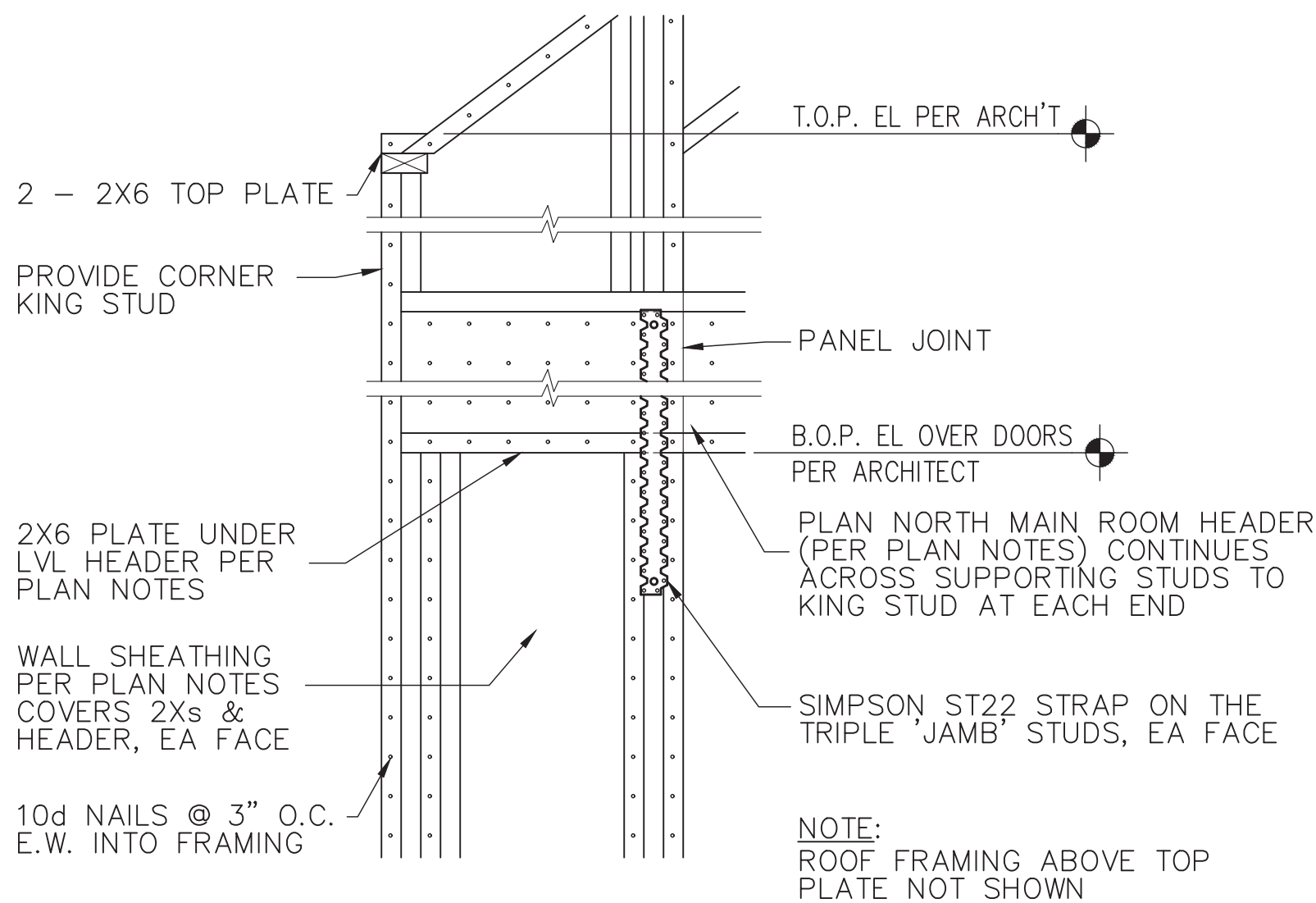
2  
S201  
RAFTER BEARING ON BEAM SECTION  
SCALE = NONE



1  
S201  
RAFTER BEARING ON STUD WALL SECTION  
SCALE = NONE



5  
S201  
RAFTER BEARING ON EXTERIOR 'TRUSS' SECTION  
SCALE = NONE



4  
S201  
HEADER BEARING AT SHEAR PIER SECTION  
SCALE = NONE









CIVIL ENGINEER  
PHELPS ENGINEERING, INC  
1270 N. WINCHESTER  
OLATHE, KS 66061  
PH: 913-393-1155

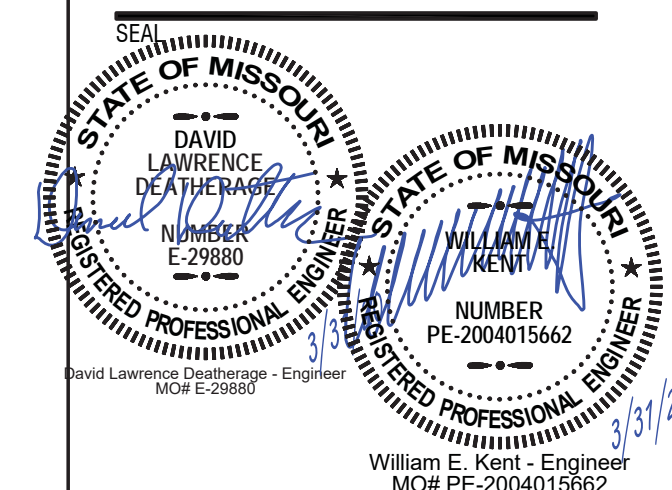
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10417 INDIANA AVE.  
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PH: 816-767-7222

MEP ENGINEER  
PKMR ENGINEERS  
13300 W. 98TH STREET  
LENEXA, KS 66215  
PH: 913-312-0151

DEVELOPER  
SUMMIT HOMES  
120 SE 30TH STREET  
LEE'S SUMMIT, MO 64082  
PH: 816-326-2909

# WOODSIDE RIDGE CLUBHOUSE

342 NW AMBERSHAM DR,  
LEE'S SUMMIT MO 64081



DATE ISSUED: March 16, 2020

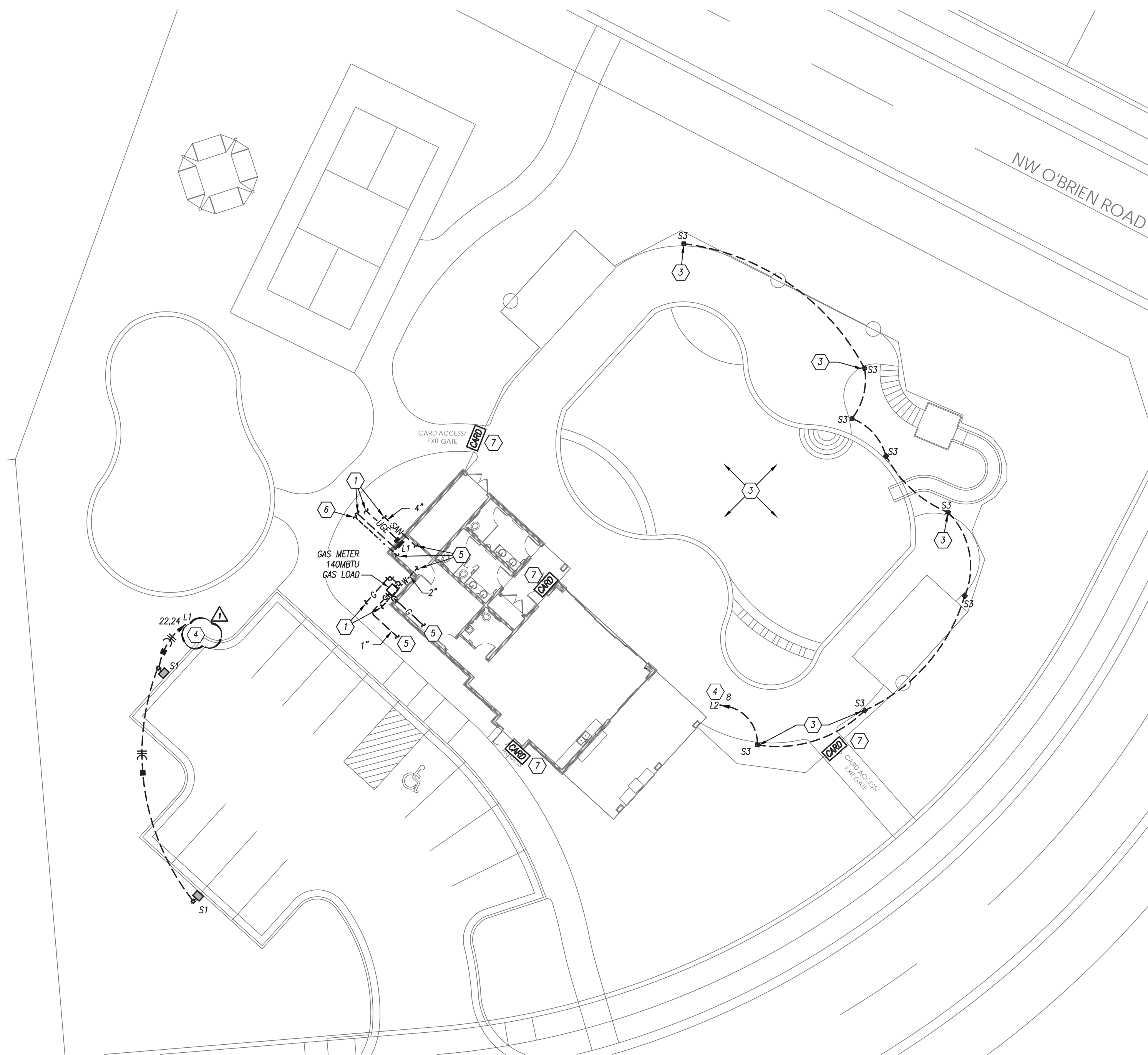
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COVER SHEET  
**MEP101**



## MECHANICAL/ELECTRICAL - SITE PLAN

1" = 16'-0"









## ELECTRICAL SPECIFICATIONS

### SECTION 26000 - ELECTRICAL

#### 1. GENERAL ELECTRICAL REQUIREMENTS

- A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements.
- B. Wiring of Mechanical Equipment

- 1) Provide all raceways & power wiring for all division 23 equipment requiring electrical connections, including, but not limited to, pumps, water heaters, & HVAC equipment, & all line voltage control & interlock wiring not provided under division 23. Connect per manufacturers' wiring diagrams. Coordinate with division 23 for disconnects furnished w/ equipment, & provide all disconnect switches as required. After installing wiring, verify that each motor load has correct phase rotation.
- 2) Verify actual "maximum overcurrent protection" (MOCP) device ratings & "minimum circuit ampacity" (MCA) conductor sizing for mechanical equipment from equipment nameplate. Base electrical installations on actual required amperages, which may vary somewhat from conductor & equipment sizes shown on drawings; however, in no case, reduce size of conductors indicated on drawings without authorization from engineer. Provide properly sized electrical wiring & equipment without extra cost to owner. Notify engineer of all changes required in electrical installation due to equipment variances so that effects on feeders, branch circuits, panelboards, fuses & circuit breakers can be checked prior to purchasing & installation. Be responsible for coordinating w/ division 23 to verify actual ampacities & correct sizes of all conductors & overcurrent protective devices for all equipment, & correct wiring for period heaters for all motors, when starters are provided under division 26.

#### C. Wiring of Thermostats, Time, & Temperature Controls

- 1) Provide all raceways, power wiring, & line-voltage control and interlock wiring not provided under division 23, for all thermostats, temperature control devices, & controls, including, but not limited to, night-stats, water heater interlocks, time switches & override timers. See mechanical drawings for locations & temperature control diagrams. Low-voltage conductors for thermostats & temperature control system may be run exposed above finished accessible ceilings, if approved & listed for this purpose, but shall be installed in conduit within walls & where exposed in work areas.

#### 2. CONDUIT & CONDUCTORS

- A. Follow circuiting shown on plans. Use no conduit smaller than 3/4" & no conductors smaller than #12 ga. Unless noted otherwise.
- B. Conductors #10 and smaller shall be solid.
- C. If no conductor size is indicated on drawings for branch circuit, provide conductors & conduit sized per NFPA 70 & based on indicated branch circuit overcurrent protective device (OCPD) rating & number of poles.
- D. Wire shall be in non-flexible metallic conduit (EMT, IMC or RMC) for:
- 1) All circuits & feeders greater than 30A.
  - 2) Kitchen circuits.
  - 3) Home runs.

- E. MC cable acceptable for branch convenience circuits & lighting circuits. Do not daisy chain light fixtures. Provide cable whips of sufficient lengths to allow for relocating each light fixture within 5-foot radius of its installed location, but not exceeding 6 feet in unsupported lengths.

- 1) Do not use MC cable for following: homeruns to panelboards, where exposed to view or damage, hazardous locations, in concrete, block walls or wet locations, & when disallowed by local AHJ or landlord.
- 2) Provide health care rated MC for patient care areas (as defined by the NEC) when not in conduit.

- F. Conduit installed below grade shall be schedule 90 PVC heavy wall plastic conduit meeting NEMA standards & UL listed for underground & exposed use. Provide GRS radius bends & risers as conduits rise above grade or above floor slab.

- G. Lighting & receptacle circuit conductors shall be copper THHN-THWN-2 600 volt, 75 deg c, color coded as described under applicable codes. No romex, plastic flex tubing etc permitted. Light fixture wire insulation shall have temp rating not less than individual fixture manufacturers recommended rating.

- H. Circuits w/ no. 8 or larger conductors, motor circuits, power & feeder circuits & building service feeders shall be copper THHN-THWN-2 600 volt, 75 deg c.

- I. All materials used to terminate, splice or tap conductors: designed for, properly sized for, & UL listed for specific application & conductors involved, & installed in strict accordance w/ manufacturer's recommendations, using the manufacturer's recommended tools.

- J. Where wiring is indicated as installed, but connection is indicated "future" or "by other division, trades, or contracts", leave minimum 3-foot "pigtail" at box, tape ends of conductors, & cover box.

- K. Number of conductors in specific raceway "home run" is indicated w/ cross lines (tick marks) on each "circuit run" on drawings. In general, direction of branch circuit "home run" routing is indicated on drawings, complete w/ circuit numbers & panelboard designation. Continue all such "home run" wiring to designated panelboard, as though "circuit runs" were indicated in their entirety.

- L. Wiring shall have insulation of proper color to match NEC color code. In larger sizes, where properly colored insulation is not available, use vinyl plastic electrical tape of appropriate color around each conductor at all termination points, junction & pull boxes.

#### 3. GROUNDING

- A. Supplement grounded neutral of secondary distribution system w/ equipment grounding system, installed so that metallic structures, enclosures, raceways, junction boxes, outlet boxes, cabinets, machine frames, portable equipment & other conductive items operate continuously at ground potential & provide low impedance path for ground fault currents.

- B. System shall comply w/ national electrical code, drawings & as specified.

- C. Provide equipment ground bus in base of low voltage, switchgear brazed or otherwise adequately connected by an approved method to ground rods.

- D. Provide in conduit green insulated copper ground conductor to main metallic water service entrance & connect by means of adequate ground clamps.

- E. Equipment grounding conductors for branch circuit home runs shown on drawings shall indicate an individual & separate ground conductor for that branch circuit which shall be terminated at branch circuit panelboard, switchboard, or other distribution equipment.

- F. Provide low voltage distribution system w/ separate green insulated equipment grounding conductor for each single or three-phase feeder. Single phase 120 volt branch circuits for lighting & power shall consist of phase & neutral conductors & green ground conductor installed in common conduit which shall serve as grounding conductor.

- G. Grounding conductors shall be as shown on plans or if not specifically shown shall be no smaller than that required by NEC.

#### 4. RACEWAY INSTALLATION

- A. Install all conductors & cable in raceways continuous without taps or splices. Splice or tap only in approved boxes & enclosures w/ approved solderless connectors, or crimp connectors & terminal blocks for control wiring, & keep to minimum required. Insulate all splices, taps, & joints as required by codes.
- B. Install all circular raceways concealed above suspended ceilings or concealed in walls or floors wherever possible except where otherwise indicated.

- 1) All conduit, junction boxes, etc. Above ceilings shall be supported from structure. Pipe sleeves, hangers & supports shall be furnished & set & contractor shall be responsible for proper & permanent locations.
- 2) Support all conductors & cables in vertical installations, as required by NFPA 70, by installing cable supports or plug-type conduit riser supports, or wire-mesh safety grids.

- C. Provide GRS for all conduits run underground, exposed to weather, or exposed to other hazardous conditions. Provide GRS installed below grade w/ corrosion resistant bonded-plastic or approved mastic coating. This shall include 90-degree elbow below grade & entire vertical transition to above grade.

- D. Provide interlocking spacers for multiple runs of UG conduits in same trench.
- E. All other raceway may be EMT where approved by local code. Use compression type fittings for EMT, w/ all fittings UL listed for environment in which they are used.

- F. Use FMC for final connection to each motor & transformer, & to any device that would otherwise transmit motion, vibration, or noise. Use LFMC where exposed to liquids, vapors or sunlight.
- 1) Provide all FMC & LFMC w/ an insulated bonding conductor.

- G. Install raceways parallel & perpendicular to building lines.

- H. Install raceways to requirements of structure & to requirements of all other work on project. Install raceway to clear all openings, depressions, pipes, ducts, reinforcing steel, & other immovable obstacles. Install raceways set in forms for concrete structure in such manner that installation will not affect strength of structure.

- I. Install raceways continuous between connections to outlets, boxes & cabinets w/ minimum possible number of bends & not more than equivalent of four 90-degree bends between connections. Use manufactured elbows for all 45- & 90-degree bends, unless approved by engineer in advance. Make other bends smooth & even & without flattening raceway or flaking galvanizing or enamel. Radii of bends shall be as long as possible & never shorter than corresponding trade elbow. Use long radius elbows where necessary, indicated, or both.

- J. Securely fasten raceways in place w/ approved straps, hangers & steel supports as required. Attach raceway supports to building structure. Hang single raceways

- for feeders w/ malleable split ring hangers w/ rod & turnbuckle suspension from inserts spaced not over 10 feet apart in construction above.

- K. Clamp groups of horizontal feeder raceways to steel channels that are suspended from inserts spaced not over 10 feet apart in construction above. Securely clamp vertical feeder raceways to structural steel members attached to structure. Install cable clamps for support of vertical feeders where required. Add raceway supports within 12 inches of all bends, on both sides of bends. Do not support raceways from suspended ceiling components.

- L. Ream raceway ends, thoroughly clean raceways before installation, & keep clean after installation. Plug or cover openings & boxes as required to keep raceways clean during construction & fish all raceways clear of obstructions before pulling conductors wires. Provide raceways of ample size for pulling of wire & not smaller than code requirements & not less than 3/4", unless indicated otherwise on drawings.

- M. Protect all raceway installations against damage during construction. Repair all raceways damaged or moved out of line after rough-in to meet engineer's approval without additional cost to owner.

- N. Align & install true & plumb all raceway terminations at panelboards, switchboards, motor control equipment & junction boxes.

- O. Install approved expansion/deflection fittings where raceways pass through (if embedded) or across (if exposed) expansion joints.

- P. Install pull wire in each empty raceway that is left for installation of conductors or cables under other divisions or contracts. Use polypropylene or monofilament plastic line. Leave min. 24" slack at each end.

- Q. Make all joints & connections in manner that will ensure mechanical strength & electrical continuity.

- R. Effectively seal raceways, by installing conduit fitting at boundary of two spaces, & filling it w/ an approved pliable material, after conductors or cables have been installed & tested, whenever raceways pass from non-cooled to cooled spaces or transition from outside facility or enclosure to inside, whether buried or exposed.

#### 5. BUSHINGS & LOCKNUTS

- A. Rigidly terminate conduits entering steel metal enclosures to enclosure w/ bushing & locknut on inside & locknut or an approved hub on outside. Conduit shall enter enclosure squarely.

- B. Provide bushings & locknuts made of galvanized malleable iron w/ sharp, clean-cut threads. Where EMT enters box, provide approved EMT compression connectors.

- C. Use insulated, grounding, or combination, bushings wherever connection is subject to vibration or moisture when required by NFPA 70, or both.

#### 6. JUNCTION & OUTLET BOXES

- A. All boxes including light fixture, switch, receptacle, & similar outlet boxes: National Electrical, Appleton, Steel City, Raco, or approved equal, galvanized steel knockout boxes, suitable in design to purpose they serve & space they occupy. Size as required for specific function or as required by NFPA 70, whichever is larger.

- 1) Lighting fixture boxes in ceilings shall not be less than 4" octagonal knockout type.

- B. Set all outlet boxes in walls, columns, floors, or ceilings so they are flush w/ finished surface, accurately set, & rigidly secured in position. Provide plaster rings, extension rings &/or masonry rings as req'd for light fixture mounting. Provide approved cast outlet boxes, w/ hubs & weatherproof covers, in all areas subject to damp, wet, or harsh conditions.

- C. Coordinate locations of outlet boxes. Outlets are only approx located on small scale drawings. Use great care in actual location by consulting various large scale detailed drawings used by other division trades, & by securing definite locations from architect.

- D. All outlets, shall be mounted w/ bottom at 18" AFF & switches w/ bottom at 44" AFF floor unless noted otherwise on plans. Refer to arch for other required elevations & cabinetry coordination.

#### 7. ELECTRICAL IDENTIFICATION

- A. Manufactured labels for each panelboard & transformer. Typewritten panel schedules mounted in panels

- B. Printed tape style label for each receptacle indicating panel & circuit #.

- C. Manufactured labels for all disconnect switches indicating equipment served.

- D. Branch circuits - identify each circuit w/ wire markers when enclosure label & wire colors do not provide enough information to identify each circuit without tracing. Feeders & branch circuits - identify each w/ wire marker w/ panel &ckt #. Box covers above lay-in ceilings neatly marked w/ indelible marker.

- E. Fire alarm - nameplate on each fire alarm terminal cabinet. Label all wiring.

#### 8. DIGITAL LIGHTING CONTROLS

- A. Provide DLM systems consisting of lighting control panels, room controllers, motion sensors, daylight sensors, & other other controls as necessary to achieve lighting switching & dimming control indicated on the drawings.

- B. Provide all interconnecting wiring, controls, programming & owner training for the system(s).

- C. Provide systems by: Cooper, Hubbell, Leviton, Phillips, Sensor Switch, Watt Stopper, Lutron.

- D. Execution:

- 1) Calibrate all sensor time delays & sensitivity for proper detection of occupants & energy savings. Adjust time delays.
- 2) Provide documentation of room by room system configuration including: sensor parameters, time delays, sensitivities, & daylighting setpoints, sequence of operation, load parameters.
- 3) Post start-up tuning - 30 days after occupancy contractor shall adjust sensors to meet the owner's requirements. Provide a detailed report to the architect / owner of post start-up activity.

#### 9. PANELBOARDS

- A. Branch circuit 208/240v panels shall be capacity shown w/ tin plated copper bussing & braced for minimum of 10,000a aic or as otherwise noted or required (series rated acceptable). Bolt on circuit breakers. 480v panels same except 14,000a aic min. or as otherwise noted. Minimum 20" wide w/ galv steel enclosure w/ hinged door & keyed lock. Coord trim w/ mounting location. Typewritten card directory.

- B. Equivalent by Square D, Siemens, Cutler Hammer, Or GE.

#### 10. WIRING DEVICES

- A. Color of devices as directed by architect.

- B. Convenience outlets:

- 1) Spec grade 20 amp duplex w/ ground & SS wall plates. Other outlets shall be verified w/ equipment suppliers for proper NEMA configurations. Provide GFCI rated devices where indicated & as req'd per code.
- 2) Equivalent devices by Cooper/Eaton, Hubbell, Leviton, Pass & Seymour/LeGrand

#### C. Switches:

- 1) Light switches - spec grade 20 amp toggle switches w/ SS wall plates.
- 2) Wall motion switches - spec grade, pir, override.
- 3) Ceiling motion switches - spec grade, dual technology, model as req'd by room configuration, all necessary power packs & relays.
- 4) Wall motion switches (bathroom) - dual relay, spec grade, PIR, 2nd relay for operation of exhaust fan delay.
- 5) Dimmer Switches: Modular, full-wave, solid-state units with integral, quiet on-off switches, with audible frequency and EM/RFI suppression filters. Continuously adjustable slider; with single-pole or three-way switching. Comply with UL 1472. 600W or 1200W as required by load.
- IncanDESCENT Lamp Dimmers: 120 V, control shall follow square-law dimming curve. On-off switch positions shall bypass dimmer module.
- LED Dimmers: Modular, compatible with dimming drivers in fixture(s); if other than 0-10V dimming is provided, verify dimmer is compatible with driver for full range of dimming (100-10%).
- 6) Equivalent devices by Leviton, Bryant, Hubbell, Wattstopper, Lithonia, Sensor Switch.

- D. Weatherproof cover plates:

- 1) Provide GFCI receptacles for weatherproof receptacles.
- 2) For wet locations: in-use NEMA 3R, UL-labeled plates die cast metal and lockable.
- 3) For damp locations: UL-listed for wet locations w/ cover(s) closed, die-cast aluminum or type 302 SS; single-cover for switches & vertically mounted receptacles; double-cover for horizontally mounted receptacles; self-closing covers.
- 4)

#### 11. DISCONNECT (SAFETY) SWITCHES

- A. Disconnect (safety) switches: Square D, Siemens, Cutler Hammer, or General Electric fused or non-fused (as indicated on drawings or required) NEMA KS1, heavy duty, externally operated, visible-blade safety switches; NEMA enclosure type indicated on drawings or suitable for environment in which installed. Based on fusible switch & fuse sizes indicated, include class R, J, or I fuse provisions as applicable.

- B. Where indicated, provide fusible switches permanently labeled as suitable for use as service entrance equipment, w/ integral & separate neutral & ground assemblies, suitable for sizes of conductors indicated. Do not double-lug any terminations not specifically listed as suitable for more than one conductor.

- C. Provide switches where not furnished w/ starting equipment, at all other points required by NFPA 70, & where indicated on drawings.

#### 12. LUMINAIRES, LAMPS & BALLASTS

- A. Refer to lighting fixture schedule plans for fixture types.
- B. Equivalent luminaires by Hubbell, Infinity, Lithonia, Williams, Eaton [Cooper].
- C. LED Fixtures:

- 1) Lamps & modules: Philips, General Electric, Osram/Sylvania, Cree, Nichia.
- 2) LED components, lamps, drivers, and fixtures shall comply with: FCC 47 CFR Part 15; UL 8750; ANSI/IESNA Standards C78.377, NEMA SSL-1, C82.77, IESNA Standards TM-16-05, RP-16, LM-79, LM-80 and TM-21.
- 3) Drivers shall be integral to the fixture unless otherwise shown or specified.

- D. Emergency ballasts/drivers/batteries/inverters - shall be Bodine, Iota. Coordinate voltages and outputs for min. 90 minute operation with fixtures scheduled and controls indicated and provided.

#### E. Execution:

- 1) Provide lighting fixtures w/ lamps & accessories req'd for hanging. Coord mounting of lighting fixtures w/ architect & G/C. Additional fixture supports shall be provided by E/C. Supports shall comply w/ latest edition of NEC.
- Provide lighting fixture securing clips as required. Consult arch plans for ceiling types & provide surface & recessed lighting fixtures w/ appropriate mounting components & accessories.

- 2) Fixtures mounted in fire rated ceilings shall be provided & installed w/ fire rated enclosures to maintain ceiling integrity.

- 3) Poles & support components: comply w/ AASHTO LTS-4. Provide steel poles in color as specified or selected by architect. Provide bolt covers. Provide concrete base for pole & ground rod.

#### 13. ADJUSTING, ALIGNING & TESTING

- A. Adjust, align, & test all electrical equipment on this project provided under this division & all electrical equipment furnished by other for installation or wiring under this division for proper operation. Test all systems & equipment according to requirements in NETA ATS (latest edition) & all additional requirements specified.

- B. In following sections. Maintain following on project premises at all times: true RMS reading voltmeter, true RMS reading ammeter, & megohmmeter insulation resistance tester. Provide test data readings as requested or as required by engineer.

#### 14. SYSTEM START UP

- A. Prior to starting up electrical systems:
- 1) Check all components & devices.
  - 2) Lubricate items accordingly.
  - 3) Tighten screws & bolts for connectors & terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486a & UL 486b.
  - 4) Check & record building's service entrance voltage, grounding conditions, grounding resistance, & proper phasing.

- B. Replace all burned-out lamps & lamps used for temporary construction lighting in permanent light fixtures.

- C. After all systems have been inspected & adjusted, confirm all operating features required by drawings & specifications & make final adjustments as necessary.

END OF DIVISION 26000

### SECTION 27000 - COMMUNICATIONS

#### 1. GENERAL ELECTRICAL REQUIREMENTS

- A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements.

#### 2. TELECOMMUNICATIONS SYSTEMS PROVISIONS

- A. Provide incoming telephone and/or data service raceways as indicated on drawings or as required by serving telecommunications company.
- B. Provide 3/4-inch thick plywood board, fire-retardant-treated & stamped FRT, securely anchored to wall, at location & of size as indicated on drawings.

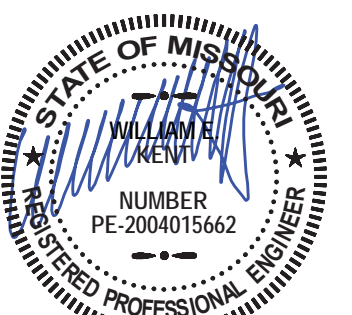
- C. Provide flush mounted telephone and/or data outlet boxes w/ 3/4-inch EMT stub-up concealed to accessible ceiling space at locations as indicated on drawings.





- 1 ROUTE INTAKE AND EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH CONCENTRIC ROOF CAP. REFER TO DETAIL.
- 2 INSTALL CU-1 ON A 4" CONCRETE HOUSEKEEPING PAD.
- 3 ROUTE CONDENSATE DRAIN TO JANITOR'S SINK. REFER TO PLUMBING PLANS FOR EXACT LOCATION.
- 4 TERMINATE EXHAUST DUCT WITH 6" ROOF CAP AND MAINTAIN 10' CLEARANCE FROM ALL O.A. INLETS.
- 5 INSTALL O.A. LOUVER 12" BELOW CEILING, MAINTAIN 10' CLEARANCE FROM ALL EXHAUST TERMINATIONS, AND INTERLOCK DAMPER ACTUATOR WITH FAN OPERATION.
- 6 10" OUTSIDE AIR DUCT. TERMINATE 12"x18" WALL LOUVER.
- 7 INSTALL RETURN AIR TRANSFER ABOVE DOOR. PROVIDE WITH SOUND ATTENUATION DEVICE BY TAMARACK OR SIMILAR.
- 8 ROUTE REFRIGERANT LINES THRU ATTIC TO F-1.
- 9 INSTALL PACKAGED WALL FAN 12" BELOW CEILING AND MAINTAIN 10' CLEARANCE FROM ALL O.A. INLETS.
- 10 INSTALL RETURN GRILLE LOW ON DOOR 12" A.F.F.

SEAL



William E. Kent - Engineer  
MO# PE-2004015662

DATE ISSUED: March 16, 2020

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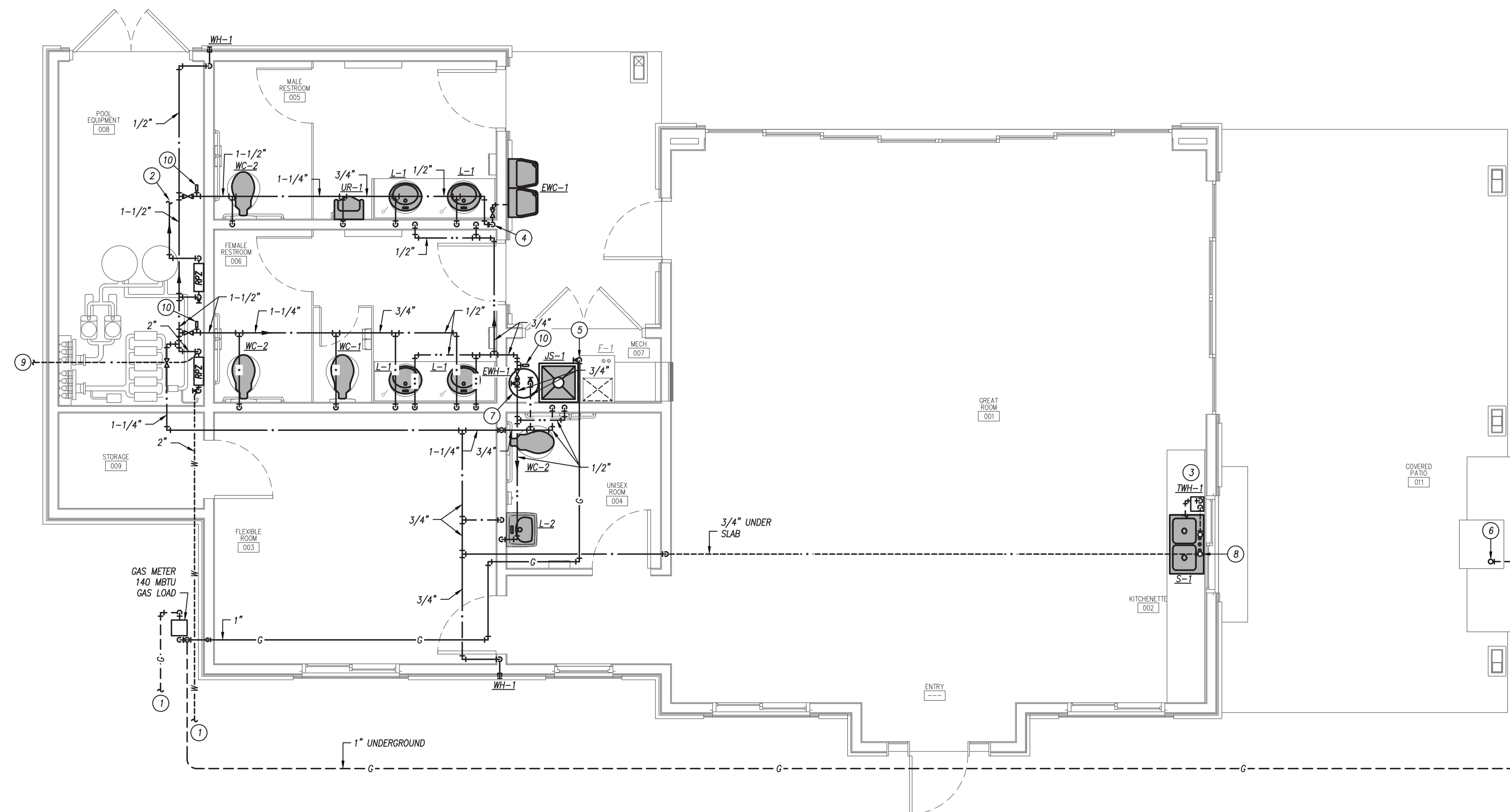
H/VAC PLAN

# M101

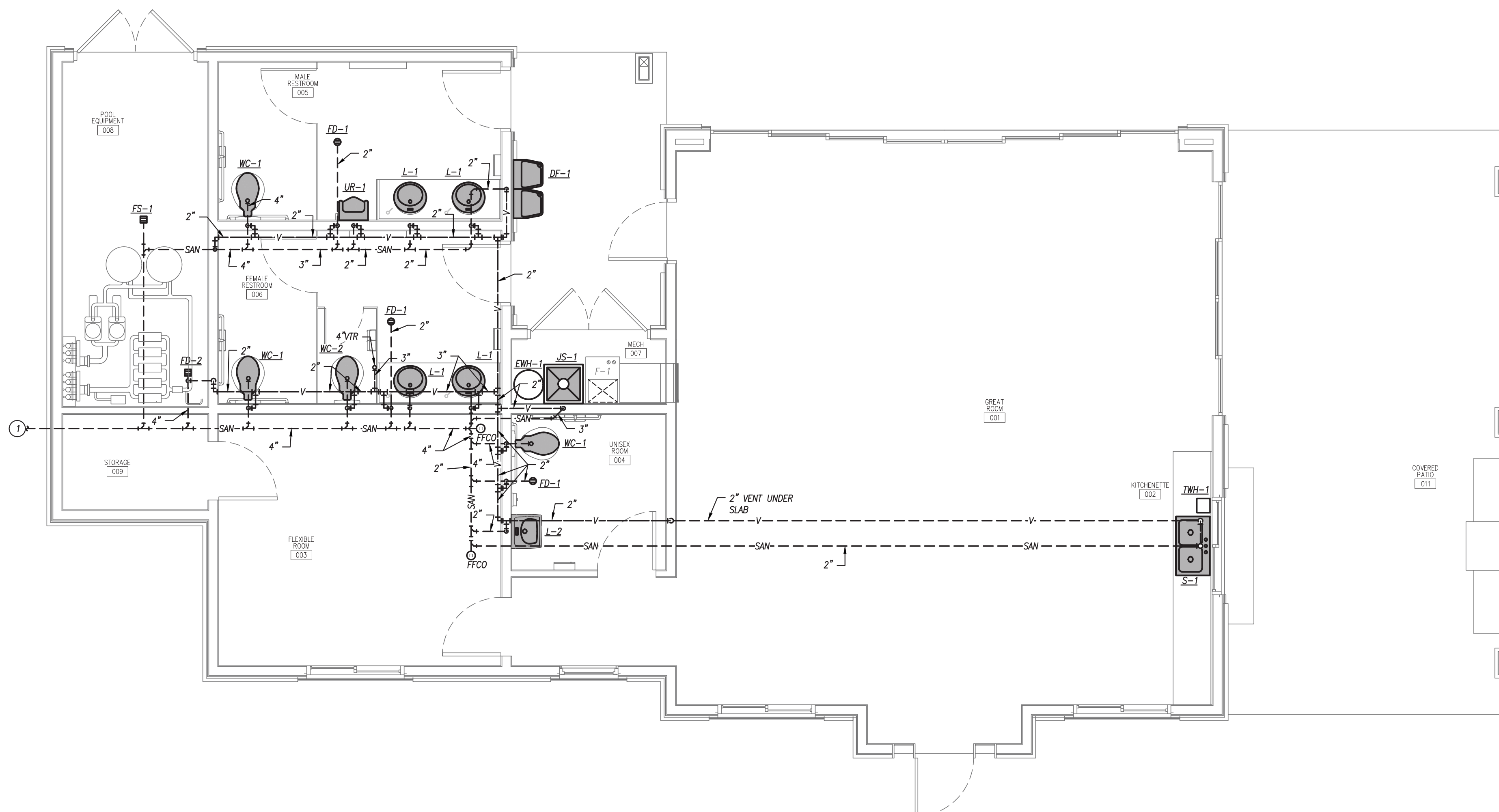








 **FLOOR PLAN - DOMESTIC**  
1/4" = 1'-0"



**FLOOR PLAN - SANITARY & VENT**  
1/4" = 1'-0"

## GENERAL PLUMBING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOD RIM OF FIXTURE.
6. NOT ALL INTERIOR CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE: GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
7. PROVIDE 1/2" TRAP PRIMER PIPING FOR ALL FLOOR DRAINS TO NEAREST TRAP PRIMER VALVE. PIPING SHALL BE TYPE "C" SOFT COPPER SEAMLESS WITH NO JOINTS FROM VALVE TO DRAIN.

### PLUMBING PLAN KEYED NOTES

- 1) REFER TO CIVIL PLANS FOR CONTINUATION, COORDINATE EXACT LOCATION WITH PLANS
- 2) 3/4" POOL WATER MAKE-UP LINE. REFER TO POOL PLANS FOR CONNECTION.
- 3) INSTALL TANKLESS WATER HEATER UNDER COUNTER. ROUTE HOT WATER TO SINK BELOW COUNTER.
- 4) ROUTE DOW SUPPLY TO EWC-1 UNDER COUNTER TO AND LOCATE SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION UNDER COUNTER TOP FOR EXTERIOR DRINKING FOUNTAIN WINTERIZATION.
- 5) EXTEND 1" NG PIPING DOWN TO FURNACE. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF FURNACE.
- 6) 1" GAS LINE UP THROUGH SLAB WITH SHUT OFF VALVE CONCEALED IN GRILL STATION.
- 7) INSTALL WATER HEATER ON SHELF ABOVE JANITOR'S SINK. SHOWN HERE FOR CLARITY.
- 8) DCW STUB UP THRU FLOOR TO SERVE S-1 AND TWH-1.
- 9) TO IRRIGATION SYSTEM, COORDINATE SIZE, LOCATION, AND CONTINUATION WITH IRRIGATION CONTRACTOR OR ARCHITECT.
- 10) PROVIDE COMPRESSED AIR QUICK CONNECTION FOR WINTERIZATION.



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B+A ARCHITECTURE  
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CIVIL ENGINEER  
PHELPS ENGINEERING, INC  
1270 N. WINCHESTER  
OLATHE, KS 66061  
PH: 913-393-1155

STRUCTURAL ENGINEER  
PACKARD ENGINEERING  
10417 INDIANA AVE.  
KANSAS CITY, MO 64137  
PH: 816-767-7222

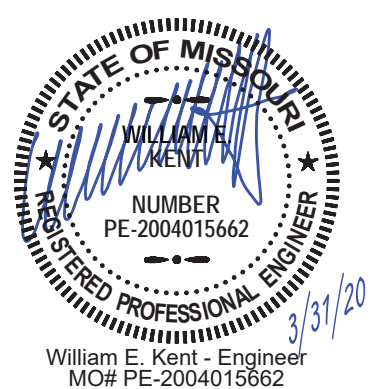
MEP ENGINEER  
PKMR ENGINEERS  
13300 W. 98TH STREET  
LENEXA, KS 66215  
PH: 913-312-0151

DEVELOPER  
SUMMIT HOMES  
120 SE 30TH STREET  
LEE'S SUMMIT, MO 64082  
PH: 816-326-2909

WOODSIDE RIDGE CLUBHOUSE

342 NW AMBERSHAM DR,  
LEE'S SUMMIT MO 64081

SEAL



DATE ISSUED: March 16, 2020

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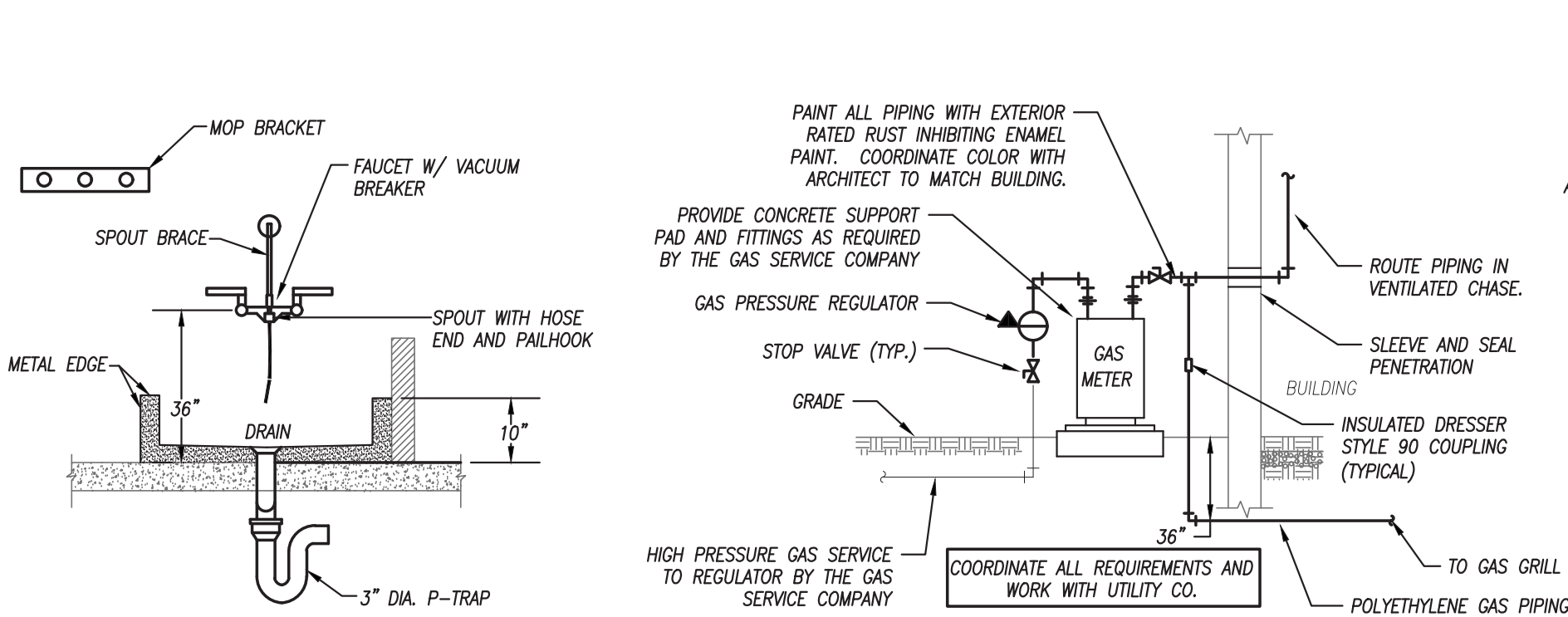
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PLUMBING PLAN

# P101





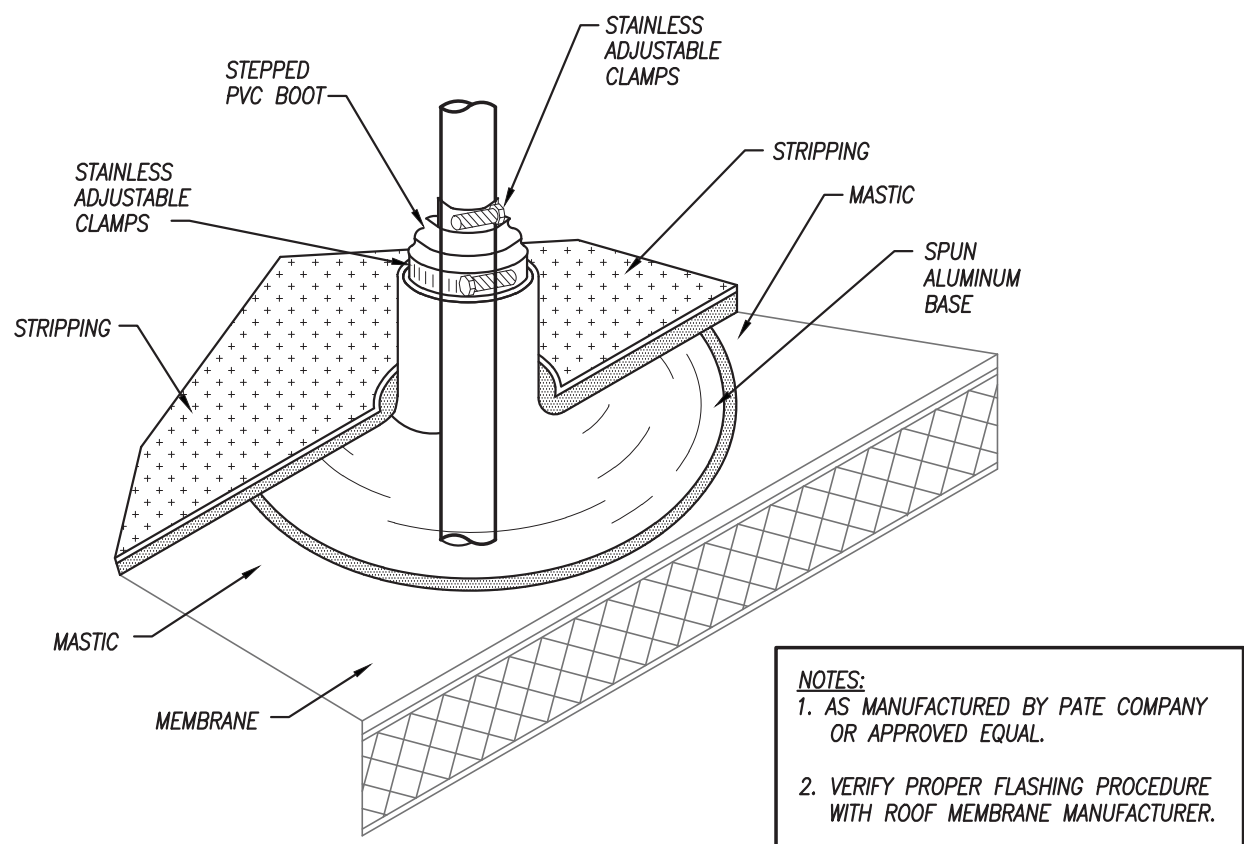


### MOP SINK DETAIL

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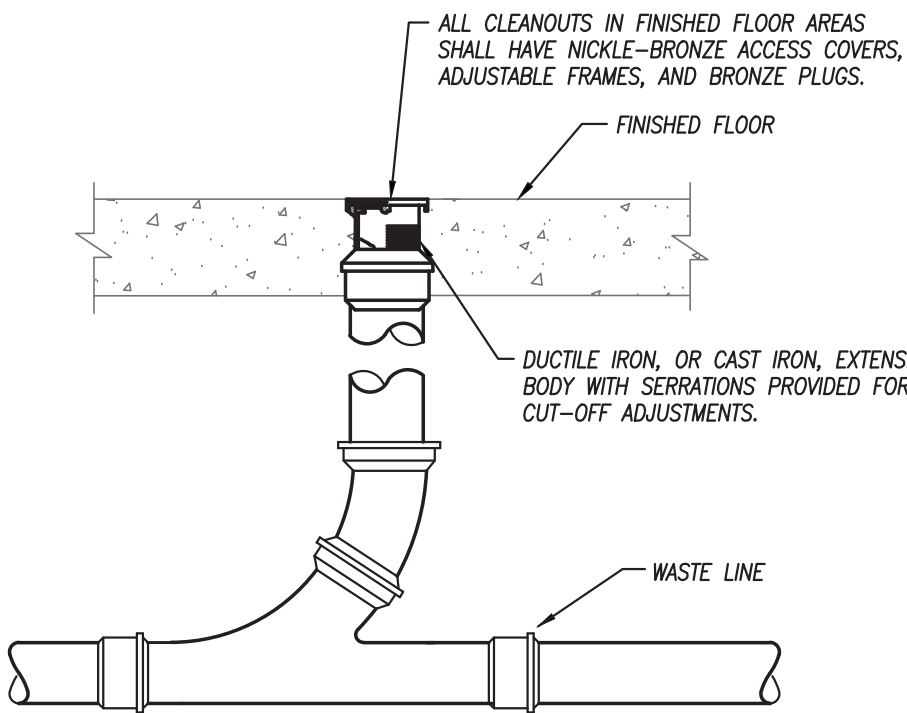
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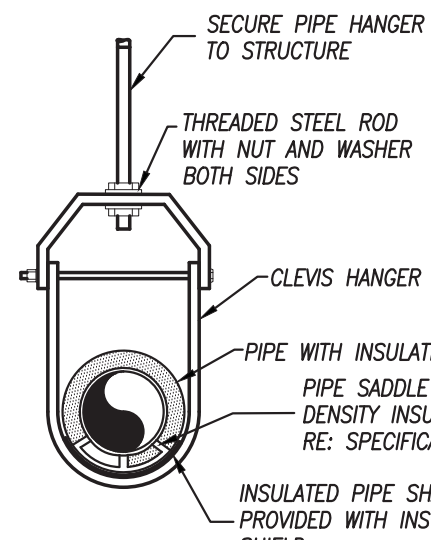
### ROOF PLUMBING VENT

NOT TO SCALE



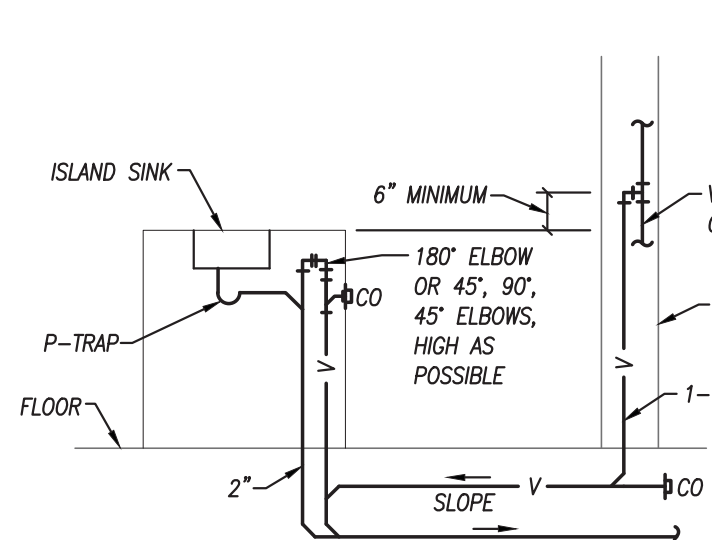
### FLOOR CLEANOUT DETAIL

NOT TO SCALE



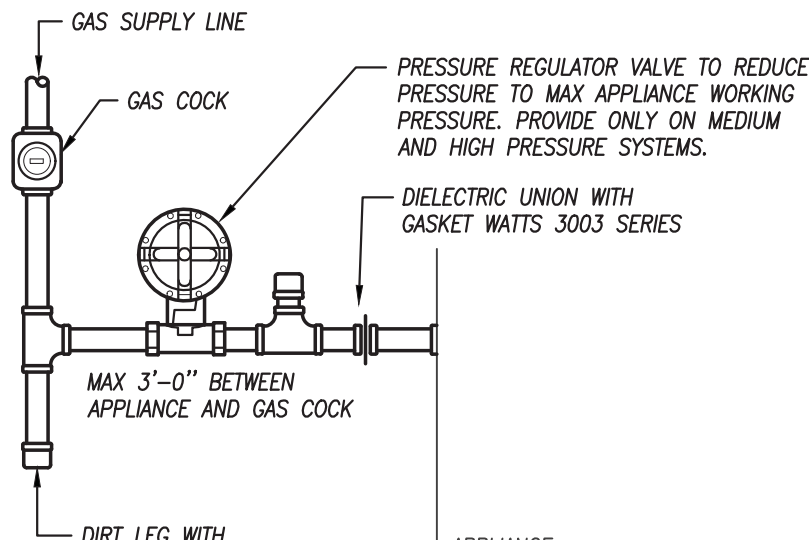
### PIPE HANGER DETAIL

NOT TO SCALE



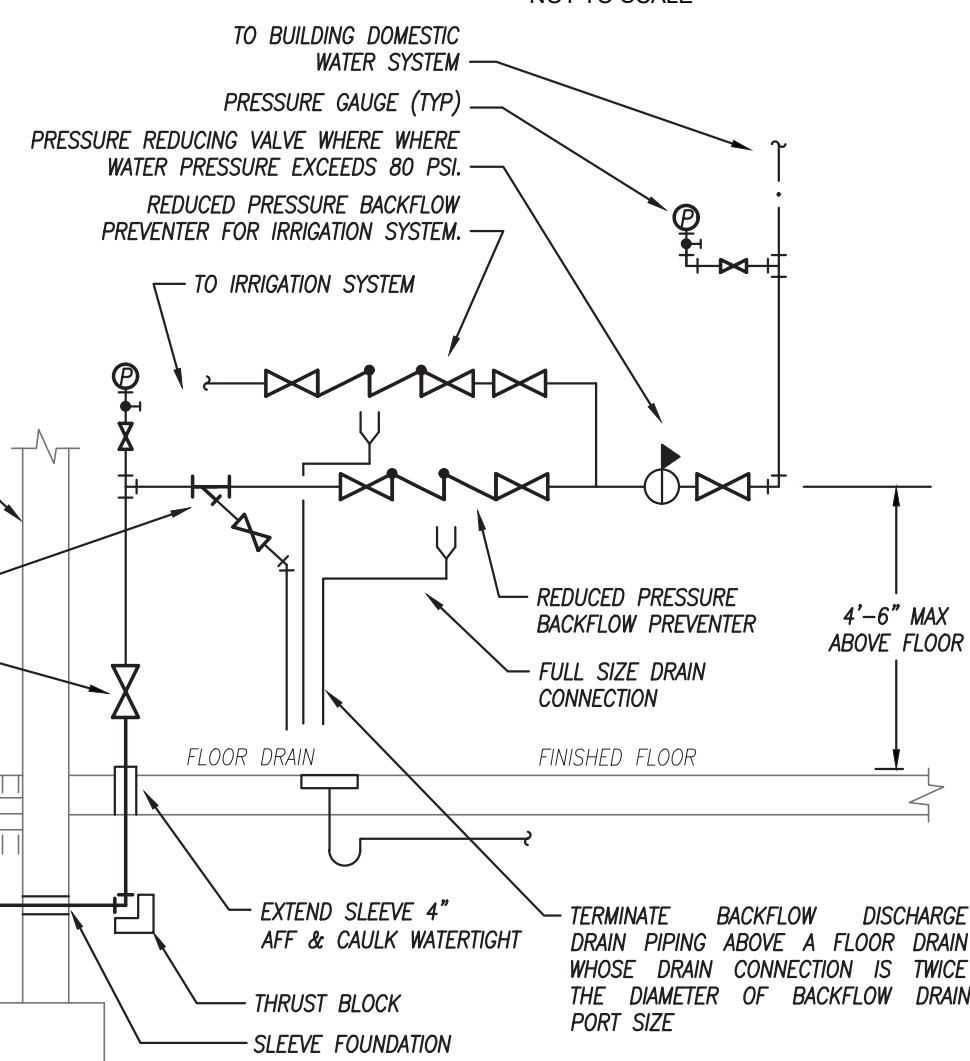
### SINK VENTING DETAIL

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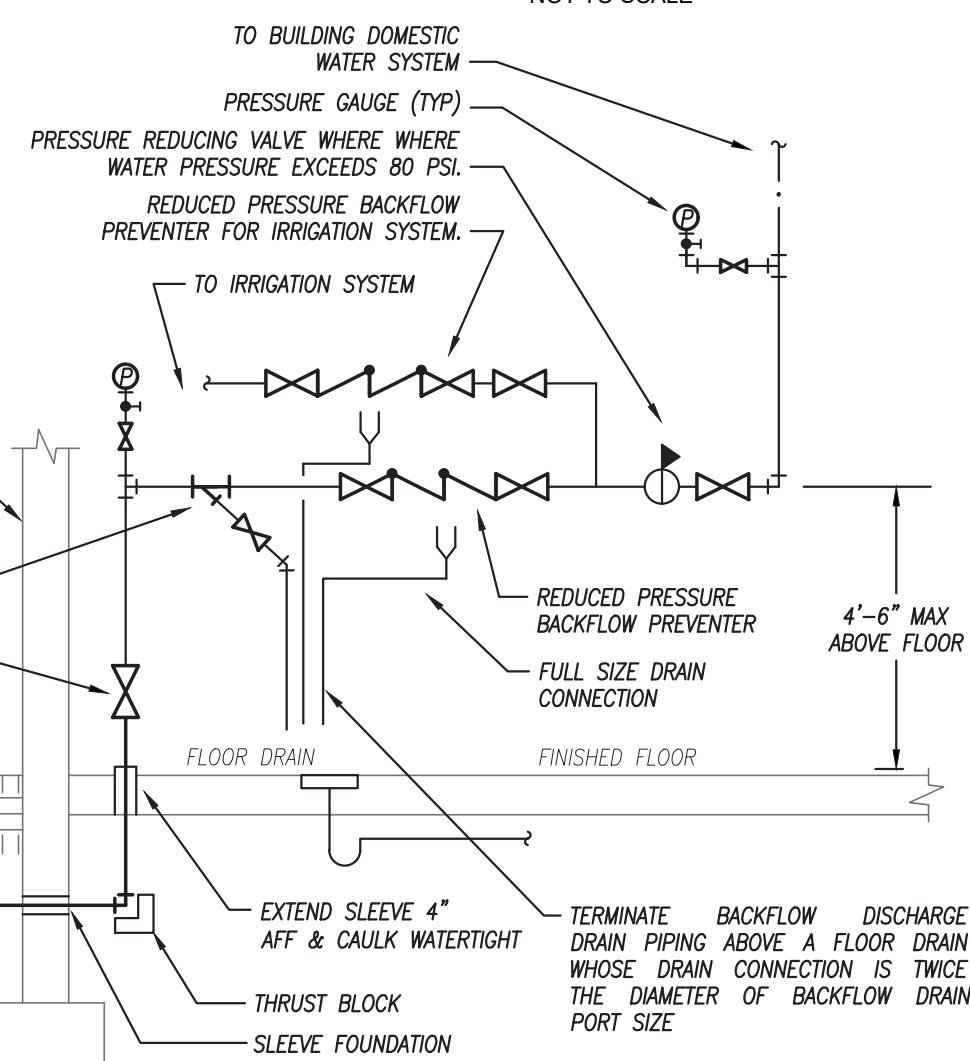
### TYPICAL GAS CONNECTION

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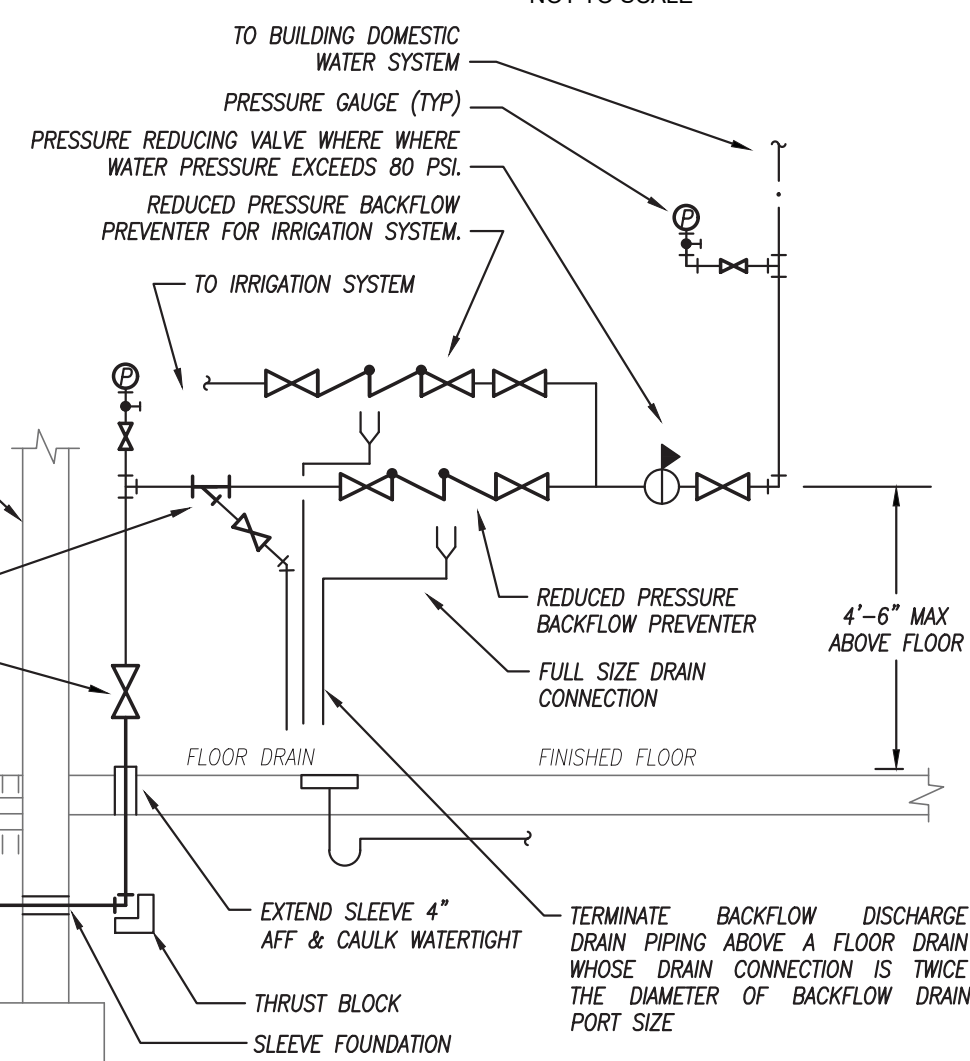
### WATER SERVICE W/ IRRIGATION REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

NOT TO SCALE



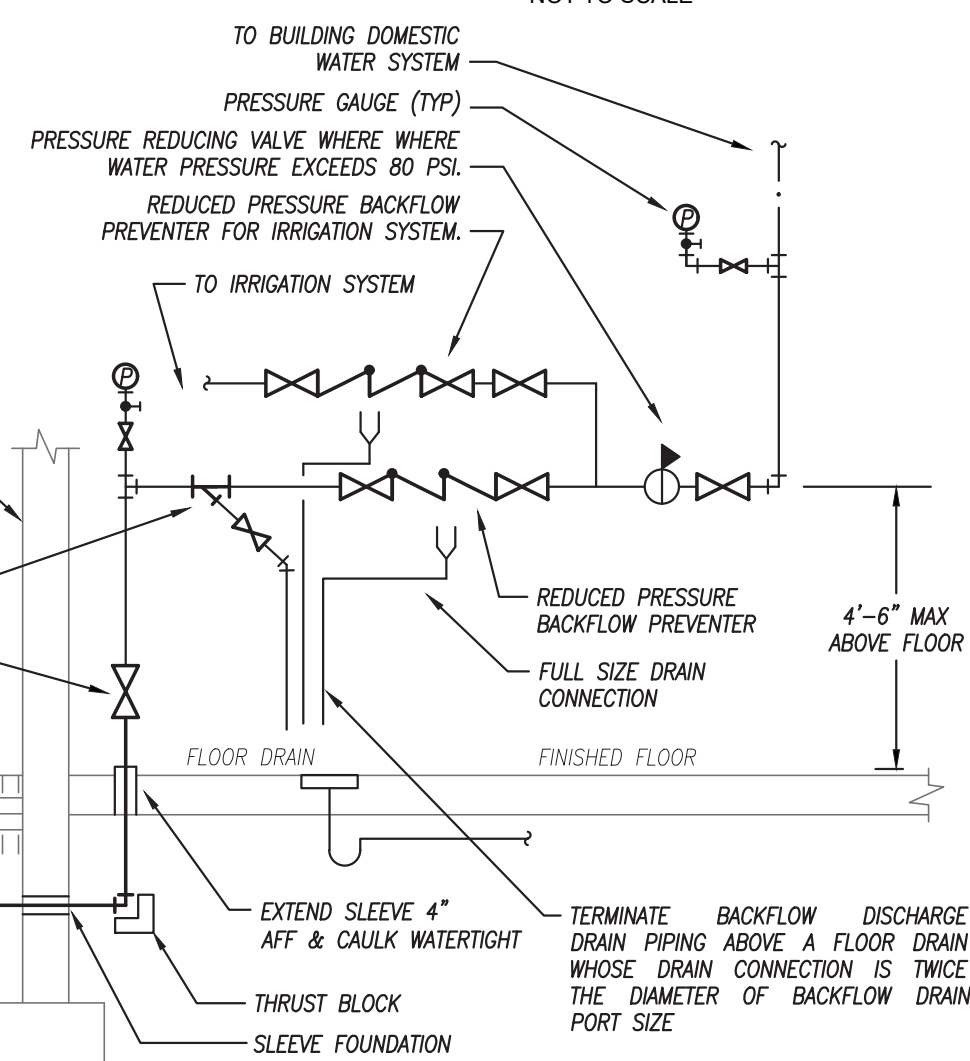
### NON-FREEZE WALL HYDRANT DETAIL

NOT TO SCALE



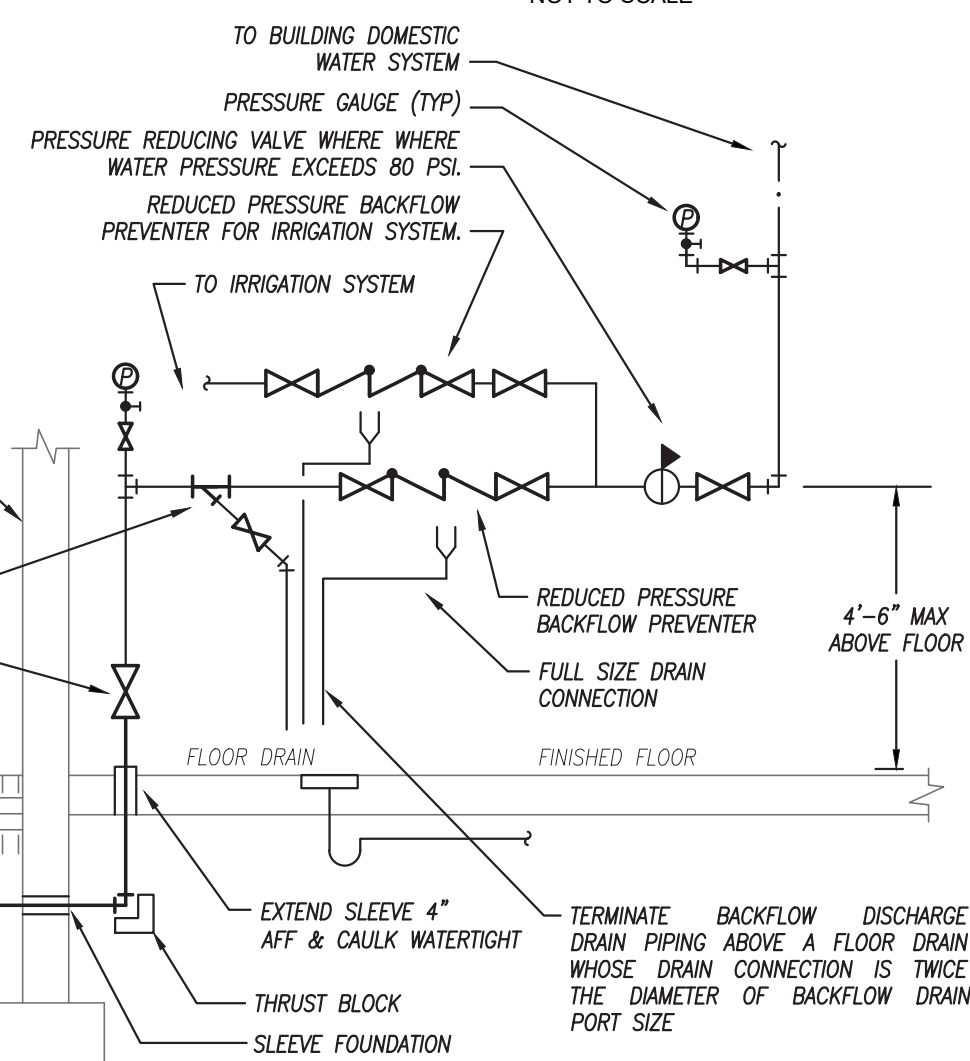
### HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC

NOT TO SCALE



### INSTANTANEOUS ELECTRIC WATER HEATER DETAIL

NOT TO SCALE



### WATER HEATER ON SHELF DETAIL

NOT TO SCALE

### PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS AND TRIM		REMARKS	PLUMBING FIXTURE PIPE SIZES			
			FITTINGS MODEL	FITTINGS AND DESCRIPTION		WASTE	VENT	DCW	DHW
EW-1	HALSEY-TAYLOR HAC8FSBLQ	ADA-COMPLIANT, DUAL-HEIGHT, BARRIER-FREE, ELECTRIC WATER COOLER. PROVIDES 8.0 GPM OF 50°F WATER AT 90°F AMBIENT. ADA-COMPLIANT FRONT AND SIDE PUSHBARS. LEAD FREE. MOUNT WITH MIN. 27" KNEE CLEARANCE AND SPOUT AT NO MORE THAN 36" A.F.F.	---	---	4	2"	2"	1/2"	---
WH-1	ZURN Z1310	EXPOSED, AUTOMATIC DRAINING, NON-FREEZE, ANTI-SIPHON WALL HYDRANT COMPLETE WITH INTEGRAL BACKFLOW PREVENTER. BRASS CASING, ALL-BRONZE INTERIOR PARTS. NON-TURNING OPERATING ROD WITH FREE-FLOATING COMPRESSION CLOSURE VALVE. REPLACEABLE BRONZE SEAT AND SEAT WASHER. COMBINATION 3/4" FEMALE AND 1" MALE IP INLET CONNECTION STANDARD. INCLUDES OPERATING KEY.	---	---	---	---	---	3/4"	---
JS-1	FIAT MSB-2424	JANITORS SINK: 24"x24"x10", WHITE, ONE-PIECE MOLDED STONE MOP BASIN. UNIT SHALL BE ONE HOMOGENEOUS PIECE. STAINLESS STEEL INTEGRAL DRAIN BODY WITH CAULKED CONNECTION FOR 3" PIPE. PROVIDE STAINLESS STEEL BUMPER AND WALL GUARDS, MOP BRACKETS, HOSE RACK.	CHICAGO FAUCET 897-CP	C.P. SERVICE SINK FITTING WITH VACUUM BREAKER, 3/4" HOSE THREAD ON SPOUT, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 1/2" FLANGED FEMALE ADJUSTABLE ARMS WITH INTEGRAL STOPS. CAULK BETWEEN WALL AND FLANGE WITH GE SILICONE SEALANT. 3" C.I. "P" TRAP.	---	3"	2"	1/2"	1/2"
L-1	AMERICAN STANDARD 0475.028 "AQUALYN"	ADA-COMPLIANT, COUNTER TOP-MOUNTED LAVATORY. 16" OVAL, WHITE VITREOUS CHINA, SELF-RIMMING BASIN WITH FAUCET HOLES ON 4" CENTERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.	CHICAGO 2200-4-2300-4KABCP	FAUCET: SINGLE HANDLE CHROME PLATED CAST BRASS MIXING FAUCET, 4" CENTERS, 4-3/4" SPOUT, 2.2GPM VANDAL PROOF AERATOR, 4-5/8" METAL LEVER HANDLE. CERAMIC VOLUME CONTROL & HOT WATER LIMIT STOP CARTRIDGE. NO POP UP.	1,2,7	2"	2"	1/2"	1/2"
L-2	AMERICAN STANDARD 0355.012	ADA-COMPLIANT WALL-HUNG LAVATORY. 20"x18" WHITE VITREOUS CHINA BOWL WITH 4" BACK FOR USE WITH CONCEALED ARM HANGER. FAUCET HOLES COORDINATED WITH FAUCET AND TRIM. PROVIDE CONCEALED ARM CARRIER. MOUNT TOP OF RIM AT 34" A.F.F.	CHICAGO 2200-4-2300-4KABCP	FAUCET: SINGLE HANDLE CHROME PLATED CAST BRASS MIXING FAUCET, 4" CENTERS, 4-3/4" SPOUT, 2.2GPM VANDAL PROOF AERATOR, 4-5/8" METAL LEVER HANDLE. CERAMIC VOLUME CONTROL & HOT WATER LIMIT STOP CARTRIDGE. NO POP UP.	1,2,3,4,5	2"	1-1/2"	1/2"	1/2"
S-1	ELKAY LR-3322	33" x 22" DOUBLE COMPARTMENT STAINLESS STEEL SINK. EACH BOWL DIMENSIONS ARE 13-1/2" L X 16" W X 8-1/8" SELF-RIMMING WITH 1-3/4" IN. RADIUS COVED CORNERS. SEAMLESS #18 GAUGE, TYPE 302 NICKEL-BEARING STAINLESS STEEL. UK-6K-H SATIN FINISH. FULLY UNDERCOATED. FAUCET HOLES COORDINATED WITH FAUCET AND TRIM. MINIMUM 36" CABINET SIZE REQUIRED.	CHICAGO 200-ALBACP	DECK-MOUNTED FAUCET WITH 9-1/2" SWING L-TYPE SPOUT. 2-3/4" METAL LEVER HANDLES WITH QUATERN CARTRIDGE. POLISHED CHROME FINISH. PROVIDE WITH SIDE SPRAY. 2.2GPM. PROVIDE BASKET STRAINER	2,3,5,8	2"	2"	1/2"	1/2"
IN-SINK-ERATOR	BADGER 5	CARBAGE DISPOSAL. 1/2 HP MOTOR, STAINLESS STEEL GALVANIZED STEEL CONSTRUCTION AND GRINDING ELEMENTS. PERMANENTLY LUBRICATED BEARINGS. PROVIDE WITH STAINLESS STEEL SINK FLANGE AND STOPPER.	---	---	---	---	---	---	---
UR-1	AMERICAN STANDARD 6561.017	WALL-HUNG URINAL. WHITE VITREOUS CHINA. 3/4" TOP SPUD. 1.0 GALLON SIPHON JET FLUSHING ACTION. MOUNT FIXTURE RIM AT 24" A.F.F. PROVIDE FLOOR-MOUNTED, HEAVY-DUTY TUBULAR STEEL UPRIGHTS, ADJUSTABLE CARRIER, PLATED HANGER, AND ALL OTHER REQUIRED MOUNTING HARDWARE.	SLOAN G2 8186-1	EXPOSED URINAL FLUSH VALVE. BATTERY POWERED CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE. 1.0 GALLON, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. MAXIMUM HANDLE HEIGHT PER ADA STANDARDS.	6	2"	2"	1"	---
WC-1	AMERICAN STANDARD MADERA 2234.001	1.6 GALLON, FLOOR-MOUNTED FLUSH VALVE WATER CLOSET. TOP SPUD AND FLAT BOLT COVERS. WHITE VITREOUS CHINA ELONGATED BOWL. 15" HIGH.	SLOAN G2 8111	EXPOSED WATER CLOSET FLUSH VALVE. BATTERY POWERED CHROME-PLATED. HANDS FREE OPERATION. 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE. 1.6 GPF, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. MOUNTING HEIGHT PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH ADA GUIDELINES.	6	4"	2"	1-1/4"	---
WC-2	AMERICAN STANDARD MADERA 3043.001	ADA-COMPLIANT, 1.6 GALLON, FLOOR-MOUNTED FLUSH VALVE WATER CLOSET. TOP SPUD AND FLAT BOLT COVERS. WHITE VITREOUS CHINA ELONGATED BOWL. 16-1/2" HIGH.	SLOAN G2 8111	EXPOSED WATER CLOSET FLUSH VALVE. BATTERY POWERED CHROME-PLATED. HANDS FREE OPERATION. 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP WITH PROTECTIVE CAP. ADJUSTABLE TAILPIECE. 1.6 GPF, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD. PROVIDE WALL AND SPUD FLANGES. MOUNTING HEIGHT PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH ADA GUIDELINES.	6	4"	2"	1-1/4"	---
---	CHURCH 9500C	WHITE, SOLID PLASTIC, OPEN-FRONT SEAT FOR ELONGATED BOWL. INTEGRAL BUMPERS. EXTERNALCHECK HINGES WITH STAINLESS STEEL POSTS.	---	---	---	---	---	---	---
---	CHURCH 9500C	WHITE, SOLID PLASTIC, OPEN-FRONT SEAT FOR ELONGATED BOWL. INTEGRAL BUMPERS. EXTERNALCHECK HINGES WITH STAINLESS STEEL POSTS.	---	---	---	---	---	---	---

#### REMARKS:

1. PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN.
2. PROVIDE CHROME-PLATED BRASS P-TRAP.
3. PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
4. PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE, TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BASES.
5. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.
6. PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.
7. PROVIDE HANDLE STOPS AND FLEXIBLE RISERS.
8. PROVIDE CHROME-PLATED BRASS TAILPIECE AND BASKET STRAINER.

#### GENERAL NOTES (APPLICABLE TO ALL FIXTURES):

1. ALL PUBLIC LAVATORIES AND SINKS SHALL BE PROVIDED WITH ANTI-SCALD ASSE 1070 LISTED VALVE ON HOT WATER SUPPLY.

### PIPING MATERIAL & INSULATION SCHEDULE

SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION	
							TYPE	THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
DOM. HOT & COLD BELOW GRADE	1/2"-1-1/4"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	ELASTOMERIC	3/4" (HOT ONLY)
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL- SEAMLESS	THREADED IRON	75 PSI - 1HR	YES	---	---
NATURAL GAS BELOW GRADE	ALL	SDR-11	POLYETHYLENE	FUSION JOINTS	100 PSI - 1HR	NO	---	---
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	---	---
DRINKING FOUNT. DRAIN	ALL	---	---	---	---	YES	ELASTOMERIC	1/2"
RP2 AND SIMILAR EXPOSED DRAIN LINES	ALL	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	---	---
CONDENSATE DRAIN INTERIOR	1/2"-2"	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)
DOM. WATER SERVICE BELOW GRADE	1"-3"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	---	---

#### NOTES

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

### WATER HEATER SCHEDULE - ELECTRIC

PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	USE	STYLE	HT (IN)	# HTG. ELEMENTS	WATTS	RECOVERY @ 90°F RISE	VOLTAGE/ PHASE	REMARKS
EWH-1	STATE	ENG	28	RESIDENTIAL	LOW BOY	30	2	4,500	21	240V / 1PH	1,2
<b>REMARKS:</b>											
1. "LOWBOY"-TYPE WATER HEATER.											
2. MOUNT ON SHELF. REFER TO DETAIL .											

### FLOOR / ROOF DRAIN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WATTS	FD-100L-6-2	FLOOR DRAIN	6"Ø	2"	1
FD-2	WATTS	FD-100L-8-4	FLOOR DRAIN	8"Ø	4"	1
FS-1	WATTS	FS-714	FLOOR SINK	8"x8"	2"	1
<b>REMARKS:</b>						
1. PROVIDE WITH NICKEL BRONZE TOP.						

### TANKLESS WATER HEATER SCHEDULE - ELECTRIC

PLAN MARK	MANUFACTURER	MODEL NUMBER	USE	STYLE	# HTG. ELEMENTS	WATTS	RECOVERY @ 90°F RISE	VOLTAGE/ PHASE	REMARKS
TWH-1	EEMAX	MT010240	LIGHT COMM.	TANKLESS	1	9500	0.73 GPM	240V / 1PH	1
<b>REMARKS:</b>									
1. INSTANTANEOUS-TYPE WATER HEATER. MOUNT BELOW CABINETRY AND INSTALL 0.5 GPM AERATOR PROVIDED WITH HEATER ON SINK FAUCET.									





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1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMATIC.
  - A. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WIRING. BUSY-CIRCUITING OF FIXTURES IS NOT ALLOWED.
  - B. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
- 3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (EN/NORMAL, 120/277, ETC.) SHALL NOT BE A SINGLE SWITCH.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- ① ROUTE HOMERUN TO PANEL VIA PHOTOCELL.
- ② TO EXHAUST FAN.
- ③ 3-BLADE CEILING FAN, WITH VARIABLE SPEED CONTROLLER. MOUNT BELOW DUCTWORK. MAINTAIN MINIMUM 6" CLEARANCE.
- ④ PROVIDE SPEED CONTROLLER FOR FANS.
- ⑤ PHOTOCELL(TORK 2001 SERIES) ORIENT TO NORTH.
- ⑥ LOCATE TRANSFORMERS FOR LOW VOLTAGE POOL LIGHTING IN STORAGE ROOM.

**W** WALL SWITCH VACUANCY SENSOR. (PASSIVE INFRARED, 120/277V, WALL SWITCH DECORA STYLE SENSOR. (WATTSSTOPPER PW-101, OR EQUAL)

**M2** WALL SWITCH MOTION SENSOR (DUAL TECHNOLOGY): PASSIVE INFRARED AND ULTRASONIC, 120/277V, DECORA STYLE SENSOR. (WATTSSTOPPER DSW-100, OR EQUAL)

**M3** WALL SWITCH MOTION SENSOR (MULTI-WAY 2-WAY, MULTI-WAY DECORA STYLE SENSOR. (WATTSSTOPPER DW-103, OR EQUAL)

**MR** WALL SWITCH MOTION SENSOR (DUAL RELAY): PASSIVE INFRARED, DUAL RELAY, 120V, DECORA STYLE SENSOR. (WATTSSTOPPER PW-201, OR EQUAL)

**L1** ROOM CONTROLLER LOW VOLTAGE SWITCHES: PUSHBUTTON SWITCHES WITH LED PILOT LIGHT, SINGLE GANGE IN DECORA STYLE FACEPLATE WITH UP TO EIGHT (8) CONTROLS. # REFERS TO QUANTITY OF SWITCHES ON FACE. (WATTSSTOPPER LMR-100, OR EQUAL)

**LD** ROOM CONTROLLER LOW VOLTAGE DIMMING SWITCHES: PUSHBUTTON SWITCHES WITH LED INDICATING LIGHTS, SINGLE GANGE IN DECORA STYLE FACEPLATE. (WATTSSTOPPER LDM-101)

**RC** ROOM CONTROLLER: DIGITAL ON/OFF ROOM CONTROLLER, 120/277V INPUT. # INDICATES NUMBER OF RELAYS (STD 1-2, UNITS SHALL BE GANGED FOR MORE THAN 2 RELAYS/ZONES) (WATTSSTOPPER LMR-100 SERIES, OR EQUAL)

**RCDF** ROOM CONTROLLER: DIGITAL ON/OFF 0-10V DIMMING ROOM CONTROLLER 120/277V INPUT. # INDICATES NUMBER OF RELAYS (STD 1-3, UNITS SHALL BE GANGED FOR MORE THAN 3 RELAYS/ZONES) (WATTSSTOPPER LMR-200 SERIES OR EQUAL)

**CD** DIGITAL CEILING-MOUNTED MOTION SENSOR, DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC, 120V, 120/277V, DIGITAL, CEILING SENSOR. (WATTSSTOPPER LMD-100, OR EQUAL)

**CM** DIGITAL MOTION SENSOR FOR CORNER MOUNT; DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC, 120V, 120/277V, CORNER MOUNT SENSOR WITH WALL BRACKET. (WATTSSTOPPER LMD-100)

**AT** ASTRONOMICAL TIME CLOCK: DIGITAL ON/OFF CONTROLLER, PROGRAMMABLE FOR ASTRONOMICAL AND SCHEDULED CONTROL. 120V INPUT. (WATTSSTOPPER RT-200 OR EQUAL)

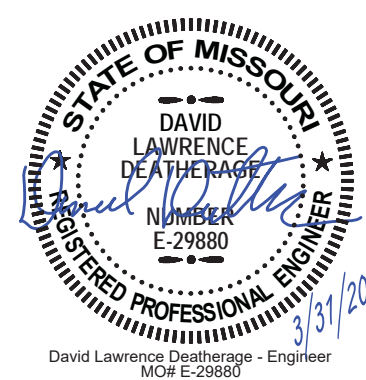
**S** LIGHTING CONTROL PANEL LOW VOLTAGE SWITCHES: PUSHBUTTON SWITCHES WITH LED PILOT LIGHT, SINGLE GANGE IN DECORA STYLE FACEPLATE WITH UP TO EIGHT (8) CONTROLS. REFER TO LIGHTING CONTROL SCHEDULE FOR ADDITIONAL INFORMATION. REFER TO SWITCH IDENTITY ON SCHEDULE (WATTSSTOPPER LSW-100 SERIES, OR EQUAL)

**LC-P** LIGHTING CONTROL PANEL: PROVIDE LIGHTING CONTROL PANEL FOR MAIN AREA LOADS. PANEL SHALL CONSIST OF RELAY/CONTACTOR PANELS. CONTROL SWITCHES SHALL BE CAPABLE OF CONTROLLING DEVICES. WATTSSTOPPER "P24-PEANUT PLUG" OR APPROVED EQUAL. PANEL SHALL BE CAPABLE OF SCHEDULING ON/OFF CONTROL WITH AFTER HOUR OVERRIDE CAPABILITY AND SHUTOFF. REFER TO CONTROL PANEL SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE SCHEDULING OF EACH CONTROL ZONE WITH OWNER.

**SENSOR ADJUSTMENTS AND SETTINGS:** SYSTEMS SHALL BE SET/PROGRAMMED TO OPERATE TYPICALLY IN MANUAL ON/AUTO OFF MODE. SET WALL MOUNTED MOTION SENSOR TO MANUAL ON MODE. SET POWER PACKS CONTROLLED BY CEILING MOTION SENSORS TO MANUAL ON AND CONTROL WITH MOMENTARY WALL SWITCH. PROVIDE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS. LOW VOLTAGE WIRING NOT SHOWN ON PLANS FOR CLARITY. PROVIDE FINAL SETTINGS/ADJUSTMENTS PER OWNER'S DIRECTION.



SEAL

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# LIGHTING PLAN

## E101







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1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXIST NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EQUIPMENT BEING FURNISHED.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, WEATHER-RESISTANT, HOSPITAL-GRADE, AND TAMPER-RESISTANT RECEPTACLES.
4. EXIST MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXIST LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
5. COORDINATE EXIST LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

- 1 REFER TO SITE PLAN FOR CONTINUATION.
- 2 2" CONDUIT FOR COMMUNICATIONS SERVICE(S).
- 3 CONNECT TO SWITCHED LIGHTING CIRCUIT IN ROOM.
- 4 PROVIDE JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING (OR FLUSH MOUNTED IN HARD CELING) WITH 3/4" CONDUIT TO A 4X4 RECESSED WALL MOUNTED JUNCTION BOX WITH SINGLE GANG TRIM RING FOR CARD READER AND 3/4" CONDUIT STUBBED INTO DOOR FRAME FOR ACCESS CONTROL WIRING. COORDINATE EXACT ROUGH-IN AND POWER REQUIREMENTS WITH SECURITY CONTRACTOR.
- 5 PROVIDE RED MUSHROOM STYLE PUSH BUTTON IN WATERPROOF ENCLOSURE WITH THE FOLLOWING INSCRIPTION, "POOL EQUIPMENT SHUT DOWN." PROVIDE CONTROL WIRING TO MAIN BREAKER IN PANEL 'L2'.
- 6 EXTEND POOL BONDING GRID TO CIRCULATION PUMP ENCLOSURE, PER NEC. REFER TO POOL BONDING DRAWING FOR ADDITIONAL INFORMATION.
- 7 PROVIDE RECEPTACLE FOR CHEMICAL CONTROLLER. VERIFY EXACT LOCATION WITH EQUIPMENT PROVIDER.
- 8 PROVIDE 120V CIRCUIT TO POOL DECK LIGHTING. ROUTE TO HOMERUN PANEL VIA TIMELOCK CONTROL. TIMER SHALL BE TWO CHANNEL, 7-DAY DIGITAL HOLIDAY TYPE, WITH 20A RATED CONTACTS, 120V CONTROL POWER.
- 9 PROVIDE ELECTRICAL CONNECTION TO POOL PUMPS. STARTERS BY POOL EQUIPMENT PROVIDER. BASE BID SHALL BE BASED ON 3 HP PUMPS. EQUIPMENT EXACT HORSEPOWER REQUIREMENTS WITH SUBMITTED EQUIPMENT.
- 10 PROVIDE ELECTRICAL CONNECTION TO FAN AND INTERLOCK WITH MOTORIZED DAMPER.
- 11 CARD READER, COORDINATE EXACT LOCATION AND ALL CONNECTION REQUIREMENTS WITH OWNER SPECIFIED SYSTEM. PROVIDE ROUGH-IN AND 1" CONDUIT BACK TO STORAGE ROOM.
- 12 CAMERA, COORDINATE EXACT LOCATION AND ALL CONNECTION REQUIREMENTS WITH OWNER SPECIFIED SYSTEM. PROVIDE ROUGH-IN AND 1" CONDUIT BACK TO STORAGE ROOM.
- 13 LOCATE TRANSFORMERS FOR LOW VOLTAGE POOL LIGHTING IN STORAGE ROOM.
- 14 TWH-1. PROVIDE A 80A 2P DISC, SWITCH, FUSE PER MANUFACTURER REQUIREMENTS. 2 #6, #10G, 3/4" C.
- 15 EDH-1. PROVIDE A 30A/2P DISC SWITCH.
- 16 PROVIDE 120 VOLT POWER TO SECURITY SYSTEM EQUIPMENT. COORDINATE EXACT LOCATION WITH OWNER.



DAVID LAWRENCE DEATHERAGE  
NUMBER E-29880  
3/31

David Lawrence Deatherage - Engineer  
M/OE E-29880

[illegible]

Designer  
Author  
Checker

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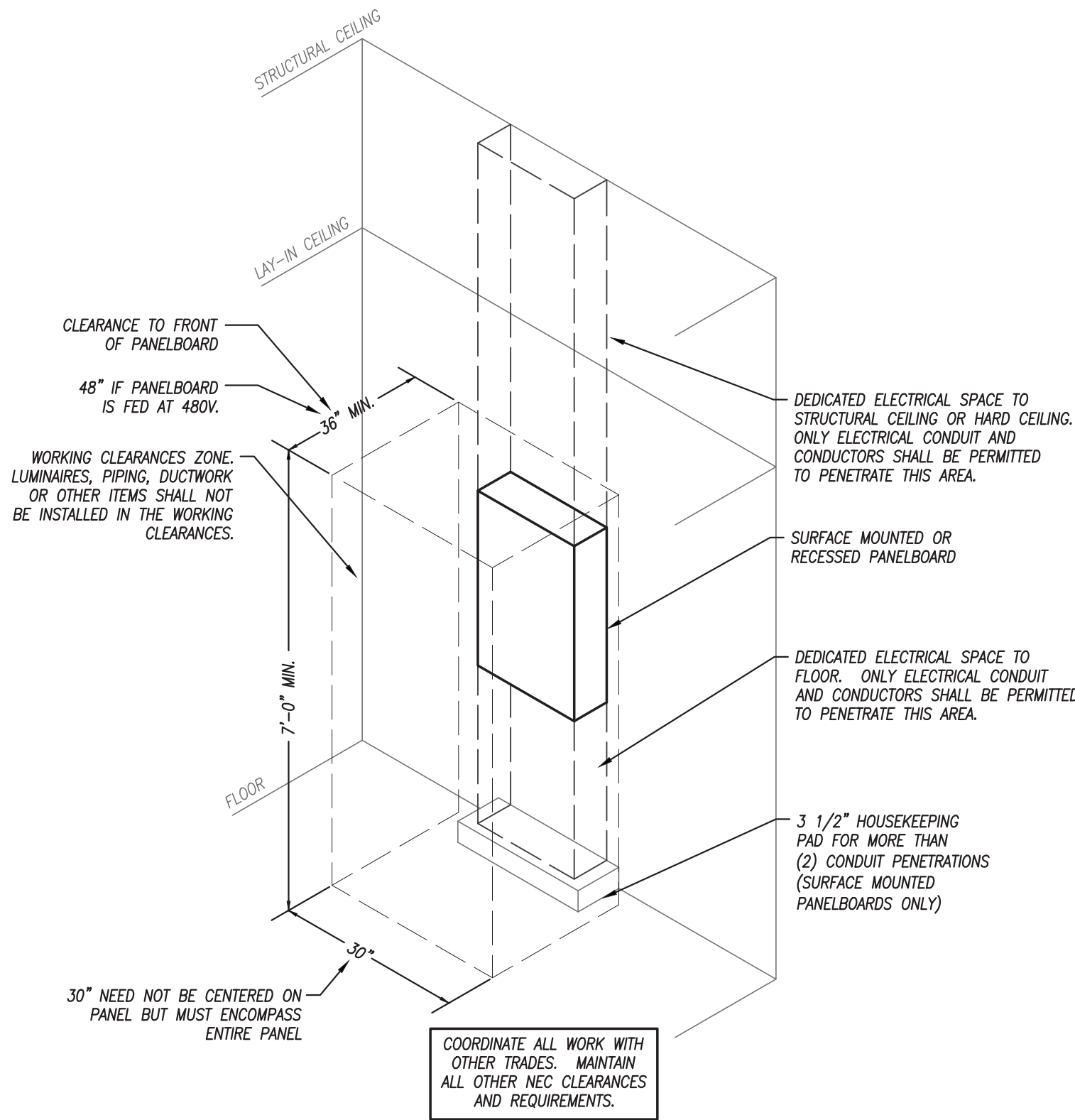
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# POWER PLAN E201

**pkmr**  
ENGINEERS

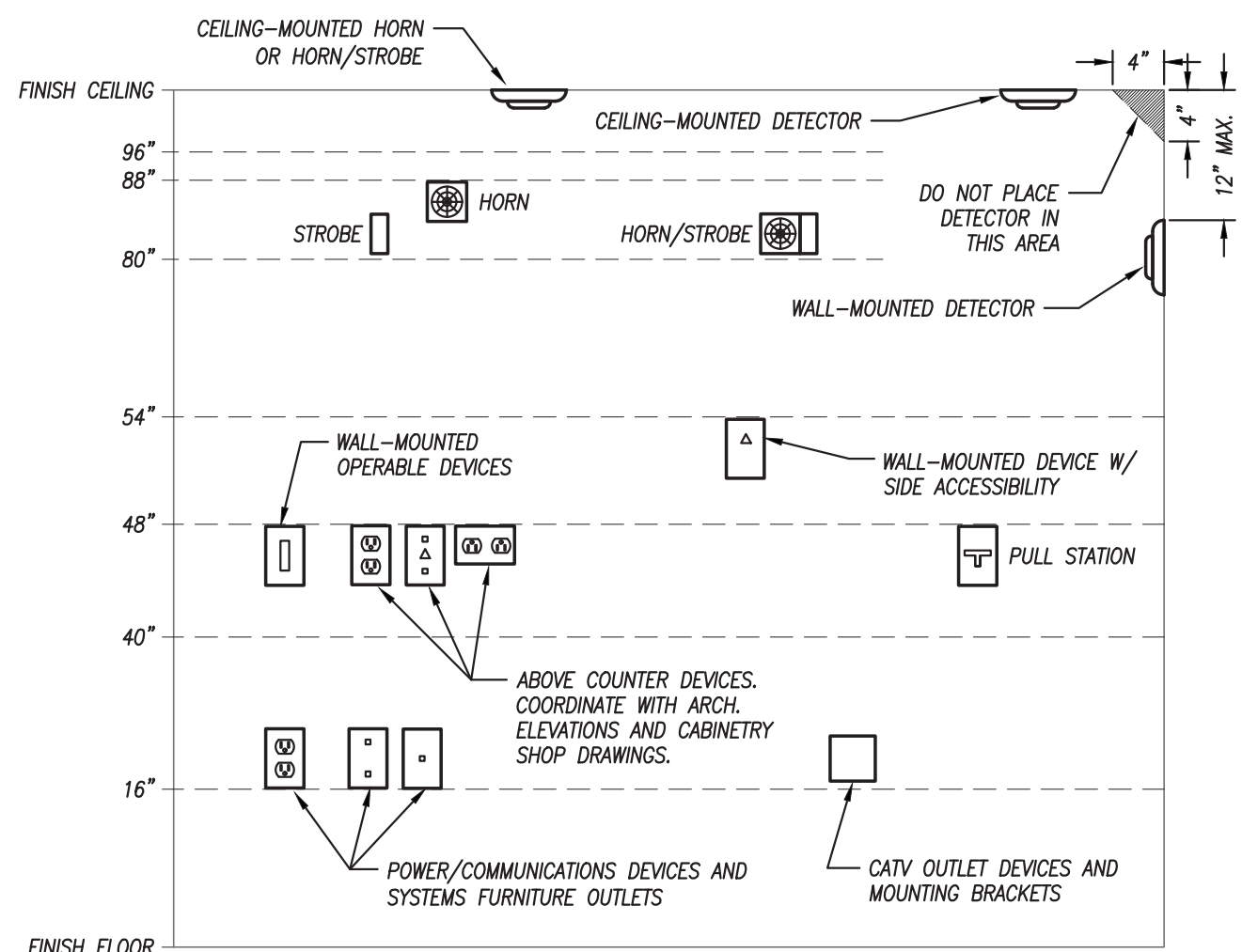
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MO State Certificate of Authority #E-2002020886





## TYPICAL PANELBOARD INSTALLATION DETAIL

NOT TO SCALE



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

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

**AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)**  
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA).

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

**POWER/COMMUNICATION DEVICES:**  
OUTLETS SHALL BE LOCATED AT 18" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

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

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

## MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE

## SINGLE-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: <b>L1</b>					CIRCUIT #	MAIN LUG AMPS: 400 MAIN BREAKER: 300 VOLTAGE: 240/120 PHASE/WIRE: 1Ø, 3W								
MOUNTING: SURFACE LOCATION: MECH RM						C/B		PHASE		DESCRIPTION				
DESCRIPTION	PHASE		C/B			C/B		PHASE						
	A	B	TRIP	POLE		POLE	TRIP	A	B					
PANELBOARD L2	7420		100	2	1	2	50	3149		CONDENSING UNIT				
-		7420	-	-	3	4	-		3149		-			
DISPOSAL	1200		20	1	5	6	1	20	1130		FURNACE F-1			
REC - KITCHEN		360	20	1	7	8	1	20	360		REC - STORAGE ROOM			
REC - KITCHEN	360		20	1	9	10	2	20	1000		EH-1			
REC - GREAT ROOM		540	20	1	11	12	-	-	1000		-			
REC - GREAT ROOM TV	1080		20	1	13	14	1	20	900		REC - RR/EXTERIOR			
REC - COVERED PATIO		540	20	1	15	16	1	20	420		BLDG LIGHTING			
REC - GREAT ROOM	540		20	1	17	18	2	20	1000		EH-1			
SPARE		-	20	1	19	20	-	-	1000					
LTC - INTERIOR	1080		20	1	21	22	2	20	141		PARKING LOT LIGHTING			
LTC - GREAT ROOM		720	20	1	23	24	-	-	141		-			
REC - FLEXIBLE ROOM	720		20	1	25	26	1	20	-		SPARE			
TWH-1		4750	50	2	27	28	1	20	-		SPARE			
-	4750		-	-	29	30	1	20	-		SPARE			
WH-1		2250	30	2	31	32	1	20	-		SPARE			
-	2250		-	-	33	34	1	20	-		SPARE			
CAMERA SYSTEM		360	20	1	35	36	1	20	-		SPARE			
CARD READER	360		20	1	37	38	1	20	-		SPARE			
CEILING FANS		800	20	1	39	40	1	20	-		SPARE			
SPACE	800		-	1	41	42	1	20	-		SPARE			
TOTALS		20560	17740						7320	6070	TOTALS			

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	3,972	1.25	4,964
RECEPTACLES	8,520	100% + 50% REST	8,520
MOTORS	12,100	125% LARGEST + SUM OF REST	12,620
AIR CONDITIONING	6,298	1.00	6,298
SPACE HEATING	6,000	0.00	0
CONTINUOUS	0	1.25	0
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	14,000	1.00	14,000
MISC. LOADS 2	0	1.00	0
SIZING LOAD:			46,602
SIZING LOAD (AMPS):			194

CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	27,880	232.3
B	23,810	198.4
TOTALS	51,690	215.4

**REMARKS:**  
1. SQUARE D NO TYPE PANELBOARD OR EQUAL.  
2. 'G' = GFCI TYPE BREAKER.

## SINGLE-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: <b>L2</b>					CIRCUIT #	MAIN LUG AMPS: 125 MAIN BREAKER: 100 VOLTAGE: 240/120 PHASEWIRE: 1Ø, 3W					
MOUNTING: - LOCATION: POOL EQUIP RM											
DESCRIPTION	PHASE		C/B			C/B		PHASE		DESCRIPTION	
	A	B	TRIP	POLE		POLE	TRIP	A	B		
POOL PUMP (3 HP)	2040		40	2	2	1	20	1200	CHEMICAL CONTROLLER		
		2040	-	-	4	1	20	1130	EF-2		
POOL PUMP (3 HP)	2040		40	2	6	1	20	500	IN-POOL LIGHTING		
		1440	-	-	8	1	20	100	POOL DECK LIGHTING		
POOL FILTER	1200		20	1	9	1	20	69	POOL ROOM LIGHTING		
EH-1		1000	20	2	11	12	1	20	SPARE		
			-	-	13	14	1	20	SPARE		
REDUC PUMP 3/4HP		840	20	2	15	16	1	20	SPARE		
	840		-	-	17	18	1	20	SPARE		
SPACE			-	1	19	20	1	-	SPACE		
SPACE			-	1	21	22	1	-	SPACE		
SPACE			-	1	23	24	1	-	SPACE		
TOTALS	7120	5320						1769	1230	TOTALS	

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	669	1.25	836
RECEPTACLES	1,200	100% + 50% REST	1,200
MOTORS	11,570	125% LARGEST + SUM OF REST	12,590
AIR CONDITIONING	0	0.00	0
SPACE HEATING	2,000	1.00	2,000
CONTINUOUS	0	1.25	0
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
MISC. LOADS 2	0	1.00	0
SIZING LOAD:			16,626
SIZING LOAD (AMPS):			69

CONNECTED PHASE LOADS		
PHASE	VA	AMPS
A	8,889	74.1
B	6,550	54.6
TOTALS	15,439	64.3

**REMARKS:**  
1. SQUARE D NO PANELBOARD OR EQUAL.  
2. PROVIDE SHUNT TRIP MAIN BREAKER WITH ACTUATION BY MUSHROOM PUSHBUTTON ON OUTSIDE WALL.  
3. 'G' = GFCI TYPE BREAKER.

EQUIPMENT FAULT CURRENT RATING SCHEDULE			
EQUIPMENT	SCA	AIC	NOTES
PANELBOARD L1	18,980	22,000	1
PANELBOARD L2	11,498	22,000	2

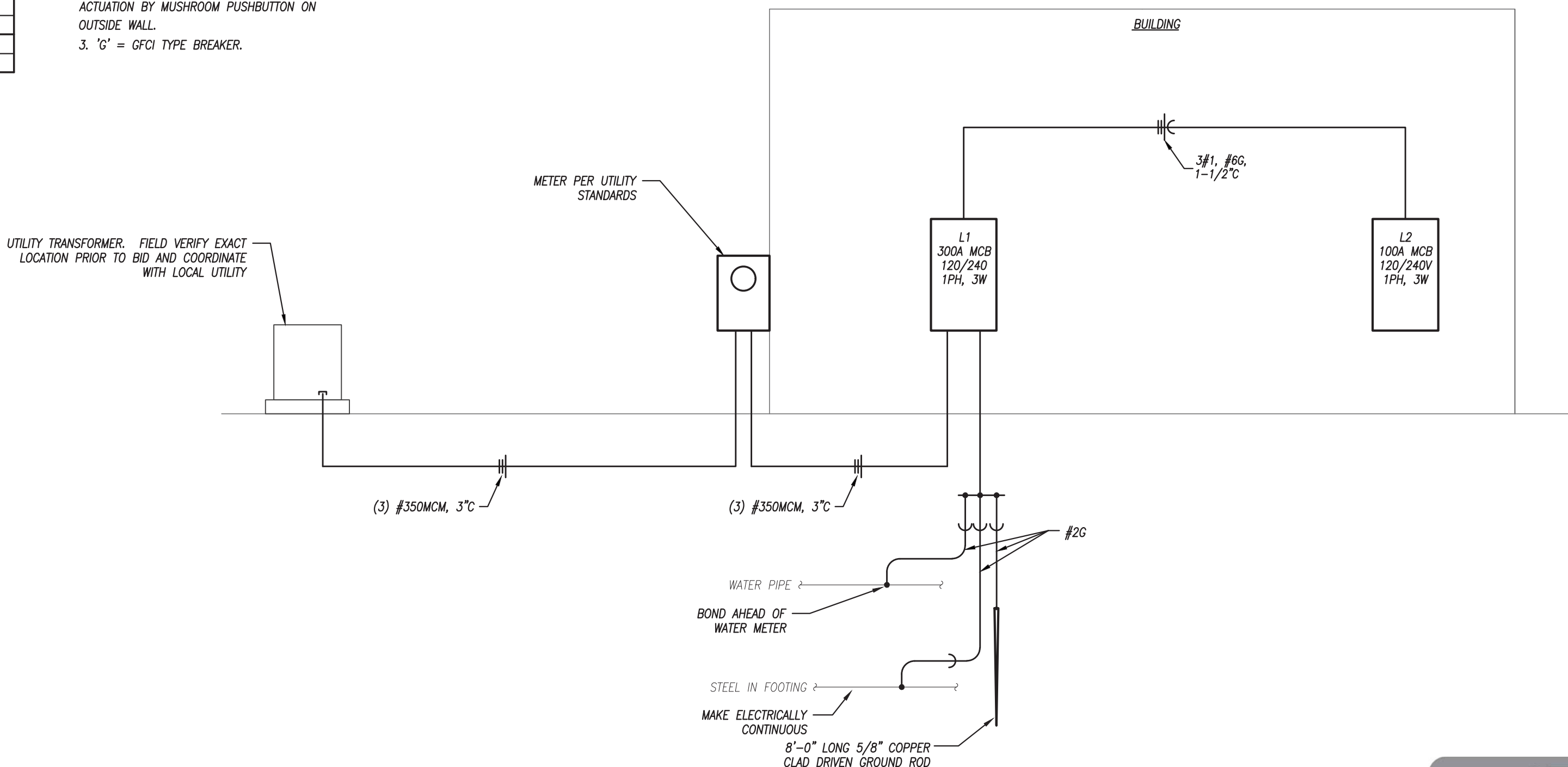
**NOTES:**  
1. RATING BASED ON A FAULT AT UTILITY CO. TRANSFORMER OF 25,000 AIC, PER KCPL.  
2. CALCULATIONS PERFORMED USING BUSSMANN POINT-TO-POINT METHOD.

UTILITY TRANSFORMER. FIELD VERIFY EXACT LOCATION PRIOR TO BID AND COORDINATE WITH LOCAL UTILITY.

## LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP NUMBER / DESCRIPTION	VOLTAGE	REMARKS
CF1	BARN LIGHT ELECTRIC	22B8L	52" DIAMETER 4-BLADE CEILING FAN, VARIABLE SPEED MOTOR, NICKEL FINISH HOUSING, FOUR (4) MAPLE REVERSIBLE BLADES, FURNISH WITH OPTIONAL 36" DOWNROD SUSPENSION, FURNISH WITH SOLID STATE WALL SPEED CONTROLLER.	-	120	1
CF2	BARN LIGHT ELECTRIC	22ALT	52" DIAMETER 3-BLADE CEILING FAN, VARIABLE SPEED MOTOR, BRUSHED ALUMINUM HOUSING, THREE (3) ALUMINUM REVERSIBLE BLADES, 12" DOWNROD SUSPENSION, FURNISH WITH SOLID STATE WALL SPEED CONTROLLER, SUITABLE FOR EXTERIOR LOCATIONS UNDER CANOPY.	-	120	1
CL1	DMF LIGHTING	DCD1 SERIES	6" ROUND RECESSED DOWNLIGHT, DIE-CAST ALUMINUM FRAME, WITH ADJUSTABLE-HEIGHT BUTTERFLY MOUNTING BRACKETS AND INTEGRAL GALVANIZED STEEL JUNCTION BOX, COORDINATE MOUNTING TYPE WITH CEILING, SELF-FLANGED, SEMI-SPECULAR LOW IRIDESCENT FINISH ALUMINUM REFLECTOR, WITH MEDIUM BEAM ANGLE/DISTRIBUTION, UL LISTED FOR WET LOCATIONS, INTEGRAL LED DRIVER, PRE-WIRED FOR 0-10V DIMMING APPLICATIONS.	ONE (1) 29 WATT, 2000 LUMEN, LED MODULE. 3000K CCT.	120	1
CL1A	DMF LIGHTING	DRD3 SERIES	SIMILAR TO TYPE CL1, EXCEPT PROVIDED WITH SLOPED CEILING ADAPTOR AND IC-RATED FOR DIRECT CONTACT WITH INSULATION. 360 DEGREE DIRECTIONAL AIM, 40 DEGREE ADJUSTABLE TILT.			
CL2	DMF LIGHTING	DCD1 SERIES	SAME AS FIXTURE TYPE "CL1" EXCEPT FURNISH WITH 4" TRIM RING DIFFERENT LED MODULE.	ONE (1) 19.5 WATT, 1500 LUMEN, LED MODULE. 3000K CCT.	120	1
CL2A	DMF LIGHTING	DRD3 SERIES	SIMILAR TO TYPE CL2, EXCEPT PROVIDED WITH SLOPED CEILING ADAPTOR AND IC-RATED FOR DIRECT CONTACT WITH INSULATION. 360 DEGREE DIRECTIONAL AIM, 40 DEGREE ADJUSTABLE TILT.			
CL3	KUZCO LIGHTING	CHARLIE FM6012	FLUSH ARCHITECTURAL FIXTURE, 11.5" DIAMETER X 3.5" TALL, WHITE OPAL ACRYLIC DIFFUSER WITH BRUSHED NICKEL TRIM RING, ELECTRONIC DRIVER DIMMABLE VIA ELV.	ONE (1) 19 WATT, 1300 LUMEN, LED MODULE. 3000K CCT.	120	1
CL4	WILLIAMS	SERIES 75R	4'-0" LONG STRIP FIXTURE, SURFACE MOUNT, FURNISH WITH ROUNDED ACRYLIC LENS, ALL PARTS PAINTED WHITE AFTER FABRICATION, ELECTRONIC DRIVER PRE-WIRED FOR NON-DIMMING APPLICATIONS.	ONE (1) 23 WATT, 3200 LUMEN, LED MODULE. 3000K CCT.	120	1
CL5	DMF LIGHTING	DCD1	SAME AS FIXTURE TYPE "CL2" EXCEPT FURNISH WITH BLACK TRIM RING.	ONE (1) 19.5 WATT, 1500 LUMEN, LED MODULE. 3000K CCT.	120	1
E	SIMKAR	DLM SERIES	LOW-PROFILE EMERGENCY LIGHTING UNIT, FLAME-RATED, UV-STABLE THERMOPLASTIC HOUSING, TWO (2) SEMI-RECESSED, ADJUSTABLE "EYEBALL" HEADS WITH GLASS LENS, WHITE FINISH, MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMPS, INTEGRAL TEST SWITCH AND AC-ON INDICATOR, FURNISH WITH REMOTE CAPACITY WHERE INDICATED.	TWO (2) 1 WATT LED	120	1
UC1	WAC LIGHTING	WA-LED SERIES	2-3/4" X 1" X 24" UNDERCABINET LIGHT FIXTURE, EXTRUDED ALUMINUM HOUSING WITH ACRYLIC LENS, WHITE POWER COAT FINISH, FURNISH WITH INTERCONNECTING CABLING AND CONNECTORS.	ONE (1) 12.7 WATT, 700 LUMEN, LED MODULE. 3000K CCT.	120	1
S1	MCGRW EDISON	GALLEON LED AF-02-LED-E1-T4FT SERIES	LED POLE MOUNT AREA LIGHT FIXTURE, DARK BRONZE FINISH, IES TYPE 4 FORWARD THROW DISTRIBUTION, PROVIDE 15' POLE. POLE SHALL INCLUDE GROUND LUG, HAND HOLE, AND BOLT COVERS.	113W, 12533 LUMEN LED MODULE 4000K	240	1
S3	GARDEN LIGHT LED	WW (WALL WASHER)	4.2" W, 5.0" T YOKE MOUNT WALL WASHER FIXTURE, ALUMINUM/BRASS AND FINISH SELECTION BY ARCHITECT, FLOOD DISTRIBUTION, GROUND STAKE INCLUDED, UL 1838 LISTED, PROVIDE REMOTE EXTERNAL DRIVER. COORDINATE EXACT LOCATION FOR DRIVER WITH OWNER.	6W/11VA, 280 LUMEN MODULE, 3000K	120	1
WL1	DMF	DCD2 SERIES	EXTERIOR WALL-MOUNTED LED CYLINDER, WET LOCATION, DARK BRONZE FINISH.	19.5 WATT, 1500 LUMEN, 3000K	120	1
WL2	GALA	JADE 2 C - 38279	GLASS AND CHROME WALL MOUNT INTERIOR VANITY LIGHT	9 WATT, 1500 LUMEN, 3000K	120	1
XEM	SIMKAR	SLCD SERIES	COMBINATION EMERGENCY LIGHTING UNIT / EXIT LIGHT, UV-STABLE THERMOPLASTIC HOUSING, FINISH WHITE, ADJUSTABLE EYEBALL STYLE LIGHTING HEADS WITH GLASS LENS FOR EMERGENCY LIGHT, EXIT SIGN TO HAVE RED LETTERS WITH DIRECTIONAL ARROWS AS INDICATED ON THE PLANS, MAINTENANCE-FREE NICKEL-CADMIUM BATTERY FOR 90 MINUTE OPERATION OF LAMPS AND EXIT SIGN, FULLY AUTOMATIC, SOLID-STATE CHARGER WITH TEST SWITCH AND AC-ON LIGHT, FURNISH WITH REMOTE CAPACITY WHERE INDICATED, BLACK REMOTE WEATHERPROOF HEAD.	TOTAL POWER CONSUMPTION: 5.29 WATTS. EMERGENCY: HIGH OUTPUT LEDS	120	1
RH		DLM SERIES		EXIT: FOUR (4) HIGH-OUTPUT LEDS.		

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



## ELECTRICAL RISER DIAGRAM

NOT TO SCALE



GENERAL NOTES - POOL

STRUCTURE

1. PROVIDE A NON-SLIP FINISH TO THE POOL BOTTOM.
2. THE SLOPE OF THE POOL BOTTOM (LESS THAN 5 FEET DEEP) SHALL BE NO GREATER THAN 1" PER FOOT AND NOT LESS THAN .2" PER FOOT.
  - EXCEPTION: IN POOLS SMALLER THAN 800 SQUARE FEET, THE SLOPE OF THE FLOOR IN THE SHALLOW PORTION SHALL NOT EXCEED 1" FOOT IN 12 FEET.
3. THE FRONT SLOPE OF THE DEEP END OF THE POOL BOTTOM (GREATER THAN 5 FEET DEEP) SHALL BE NO GREATER THAN 4" PER FOOT. OTHER SLOPES OF THE DEEP END OF THE POOL SHALL NOT EXCEED 1" PER FOOT.
4. THE MAXIMUM DEPTH AT THE SHALLOW END SHALL NOT EXCEED 42".
5. PROVIDE RECESSED DEVICE FOR FASTENING SAFETY ROPES AT TRANSITION POINTS IN THE POOL OR WHERE THE WATER DEPTH REACHES 5 FEET. LOCATE FASTENING DEVICES 1 FEET TOWARD THE SHALLOW SIDE.
6. PROVIDE COVE RADIUS OF 1" MINIMUM TO 8" MAXIMUM WHERE THE WATER DEPTH IS 6 FEET OR LESS.

PLASTER

1. PROVIDE SOUTHERN GROUTS AND MORTARS, INC / SGM DIAMOND BRITE (TM) EXPOSED AGGREGATE FINISH, MADE WITH 100% QUARTZ AGGREGATE AND POLYMER MODIFIED CEMENT.
2. COLOR TO BE SELECTED BY OWNER, COLOR SHALL BE LIGHT REFLECTIVE MEETING CITY OF LEE'S SUMMIT, MISSOURI STANDARDS. COLOR SELECTED BY OWNER IS SUPER BLUE.
3. INSTALL PLASTER SYSTEM PER MANUFACTURERS REQUIREMENTS BY AN EXPERIENCED INSTALLER

WALKWAYS & DECKS

1. PROVIDE A CLEAR,UNOBSTRUCTED WALK OR DECK AROUND THE ENTIRE PERIMETER OF THE POOL.
2. SLOPE THE DECK AWAY FROM THE POOL A MINIMUM OF 1/4" PER FOOT.
3. WHERE DECK DRAINS ARE USED, THE TRIBUTARY AREA SHALL NOT EXCEED 400 SQUARE FEET OF DECK SURFACE.
4. USE CLASS A CONCRETE (AE) THROUGHOUT. FC = 4,000 PSI, BROOM FINISH SURFACE, TOOLED JOINTS.
5. EXPANSION AND CONTRACTION JOINTS TO BE SPACED AT A MAXIMUM 10' ON CENTER, UNLESS SHOWN OTHERWISE.

POOL LADDERS AND STAIRS

1. PROVIDE 2 MEANS OF EGRESS LOCATED AT OPPOSITE ENDS OF THE POOL.
2. PROVIDE 4 MEANS OF EGRESS WHERE POOL WIDTHS ARE 30 OR GREATER.
3. THE DISTANCE FROM ANY POINT IN THE SWIMMING POOL TO A MEANS OF EGRESS SHALL NOT EXCEED 50 FEET.
4. STEPS OR LADDER TREADS SHALL BE NON-SLIP.
5. STEPS SHALL HAVE 12" MINIMUM TREADS AND HAVE10" MAXIMUM RISERS IN ACCORDANCE WITH ANSI/APSP-1 2003 STANDARD FOR PUBLIC SWIMMING POOLS.
6. STEPS SHALL BE PROVIDED WHERE THE WATER DEPTH IS 42 INCHES OR LESS.
7. PROVIDE ONE HANDRAIL PER 12 FEET OF STEP WIDTH OR FRACTION THEREOF.

ELECTRICAL

1. ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2011 EDITION.
2. UNDERWATER LIGHTING SHALL PROVIDE 0.5 WATTS PER SQUARE FOOT OF POOL SURFACE AREA, LIGHTING ALL PORTIONS OF THE POOL. LIGHTING CIRCUIT TO BE GFC.
3. PROVIDE DECK LIGHTING OF 0.6 WATTS PER SQUARE FOOT OF DECK AREA IF POOL LIGHTING IS USED AND 2.0 WATTS PER SQUARE FOOT OF DECK AREA IF POOL LIGHTING IS NOT USED.
4. ALL ELECTRICAL LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC. SHALL COMPLY WITH SECTION 680-6 OF NEC, 2011.
5. UNDERWATER LIGHTING FIXTURES SHALL COMPLY WITH SECTION 680-6 OF NEC, 2011.
6. GROUND SHALL COMPLY WITH SECTION 680-24 AND 680-25 OF NEC, 2011.
7. A RECEPTACLE THAT PROVIDES POWER FOR POOL OR ASSOCIATED EQUIPMENT SHALL BE PERMITTED BETWEEN 5 FEET AND 10 FEET FROM THE INSIDE WALL OF THE POOL OR HOT TUB, AND WHERE SO LOCATED, SHALL BE OF THE LOCKING (TWIST-LOCK) AND GROUNDING TYPES AND SHALL BE PROTECTED BY A GROUND FAULT CIRCUIT INTERRUPTER (GFCI). ALL OTHER RECEPTACLES SHALL BE AT LEAST 10 FEET FROM THE INSIDE WALL OF THE POOL OR HOT TUB.
8. AN ADDITIONAL 125-VOLT GFCI CONVENIENCE RECEPTACLE IS REQUIRED TO BE INSTALLED WITHIN 20 FEET BUT NOT CLOSER THAN 10 FEET TO THE INSIDE WALL OF A POOL OR HOT TUB. CORD LENGTHS FOR PERMANENT POOLS SHALL NOT BE LONGER THAN 3 FEET IN LENGTH.
9. A DISCONNECTING MEANS SHALL BE PROVIDED AND BE ACCESSIBLE (LOCATED WITHIN SIGHT FROM ALL POOLS AND HOT TUB EQUIPMENT) AND SHALL NOT BE LOCATED WITHIN 5 FEET FROM THE INSIDE WALL OF THE POOL OR HOT TUB.
10. ELECTRICAL INSTALLATIONS OVER THE TOP OF A POOL OR HOT TUB OR OVER THE AREA EXTENDING 5 FEET FROM THE EDGE OF THE POOL OR HOT TUB INCLUDING UTILITIES SHALL BE REVIEWED WITH AN ELECTRICAL INSPECTOR PRIOR TO ISSUANCE OF THE PERMIT. ELECTRICAL INSTALLATIONS (INCLUDING UNDERGROUND) ARE NOT ALLOWED WITHIN 5 FEET OF A POOL.

BONDING

1. BONDING OF THE POOL SHALL COMPLY WITH SECTION 680-022 OF NEC, 2011.
2. ALL METAL PARTS OF A POOL AND ITS ASSOCIATED METALLIC EQUIPMENT, METAL PIPING, RACEWAYS, FIXED METAL LADDERS, TOWERS, PLATFORMS, DIVING STRUCTURES, DOOR FRAMES, ETC. THAT ARE NOT SEPARATED FROM THE POOL BY A PERMANENT BARRIER AND LOCATED WITHIN 5 FEET OF THE POOL, MUST BE BONDED WITH A #8 SOLID COPPER CONDUCTOR. THIS CONDUCTOR IS NOT REQUIRED TO BE EXTENDED OR ATTACHED TO ANY REMOTE PANEL, BOARD, SERVICE EQUIPMENT OR ELECTRODE (GROUND ROD) IT IS ONLY INTENDED TO BOND THESE METALLIC PIECES TOGETHER.

POOL OUTLETS

1. POOL OUTLETS OPENINGS MUST BE COVERED BY GRATING THAT CAN ONLY BE REMOVED WITH THE USE OF A TOOL. COMPLYING WITH ANSI/APSP-7 2008, STANDARD FOR SUCTION ENTRAPMENT AVOIDANCE AND THE VIRGINIA GRABBER BAKER POOL AND SPA SAFETY ACT (VGB ACT) AND CURRENT CONSUMER PRODUCT SAFETY COMMISSION (CPSC) INTERPRETATIONS.
2. MAIN DRAIN DISCHARGE PIPING SHALL BE SUFFICIENT FOR REMOVAL OF THE WATER THROUGH IT AT A RATE OF AT LEAST 50% OF THE SWIMMING POOL DESIGN RECIRCULATION FLOW RATE.

3. PROVIDE VALVES IN THE PIPING SYSTEM TO PERMIT FLOW ADJUSTMENT.
4. PROVIDE ADJUSTABLE DIRECTION SKIMMERS.
5. PROVIDE A MINIMUM OF 1 SKIMMER FOR EVERY 400 SQUARE FEET OF POOL SURFACE AREA.
6. THE VELOCITY OF FLOW THROUGH SKIMMERS SHALL BE IN THE RANGE OF 10-15 FEET/SECOND.

POOL INLETS

1. PROVIDE ADJUSTABLE FLOW INLETS.
2. THE VELOCITY OF FLOW THROUGH ANY INLET ORIFICE SHALL BE IN THE RANGE OF 5-15 FEET/SECOND.
3. LOCATE INLETS A MINIMUM OF 12 INCHES BELOW THE DESIGNED WATER LEVEL IF LOCATED ON THE POOL WALL.
4. PROVIDE A MINIMUM OF 1 INLET FOR EVERY 300 SQUARE FEET OF POOL SURFACE AREA.

PUMPING EQUIPMENT

1. PUMPS SHALL BE CAPABLE OF SUPPLYING A MINIMUM BACKWASH RATE OF 15 GALLONS PER SQUARE FOOT OF FILTER AREA PER MINUTE.
2. THE RECIRCULATING PUMP AND MOTOR SHALL HAVE SUFFICIENT CAPACITY TO PROVIDE THE TURNOVER REQUIRED AGAINST THE MAXIMUM HEAD LOSS WHICH MAY DEVELOP UNDER NORMAL OPERATING CONDITIONS.
3. PROVIDE A SELF-PRIMING PUMP WHERE THE PUMP IS LOCATED AT AN ELEVATION HIGHER THAN THE POOL WATER LINE.
4. PROVIDE A STRAINER BASKET AT THE PUMP TO FILTER HAIR AND LARGE PARTICLES.

FILTERS

1. PROVIDE REMOVABLE FILTER HEADS FOR INSPECTION AND REPLACEMENT OF FILTER MEDIA.
2. THE MAXIMUM SHUT-OFF HEAD OF THE PUMP SHALL NOT BE LESS THAT 50 POUNDS PER SQUARE INCH.
3. MARK VALVES FOR EASY IDENTIFICATION.
4. VALVE FILTER PIPING TO ALLOW FOR REPAIRS WHILE OTHER UNITS ARE IN SERVICE.
5. PROVIDE CARTRIDGE FILTER SYSTEM.

PIPING SYSTEM

1. ALL POOL PIPING SHALL BE OF MATERIAL APPROVED FOR POTABLE WATER USE BY THE AMERICAN WATER WORKS ASSOCIATION.
2. BRANCH WATER UTILITY SERVICE LINES 2" AND SMALLER SHALL CONFORM TO THE LATEST FEDERAL SPECIFICATIONS FOR TYPE "K" FLEXIBLE COPPER TUBING.
3. POOL SERVICE LINES LARGER THAN 2" SHALL BE SCHEDULE 80 PVC
4. ALL WATER INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT OR BUILDING INSPECTOR.
5. PIPING SHALL HAVE THE ABILITY TO WITHSTAND FOUR TIMES THE OPERATING PRESSURE.
6. PIPING SHALL BE PROPERLY SLOPED FOR ADEQUATE DRAINAGE AND SUPPORTED AN INTERVALS TO PREVENT SAGGING BETWEEN SUPPORTS.
7. PROVIDE FOR EXPANSION OF PIPES.
8. PROVIDE FOR CLEANOUTS IN THE CIRCULATION SYSTEM.
9. ALL PLASTIC (PVC) PIPING MUST HAVE THE NATIONAL SANITATION FOUNDATION (NSF) SEAL IMPRINTED ON IT.
10. USE FLANGE JOINTS OR UNION FOR EXPOSED PIPING IN THE FILTER ROOM.
  11. COLOR CODE PIPING AS FOLLOWS:
    - POTABLE WATER LINES: DARK BLUE
    - RECIRCULATION
      - FILTERED: AQUA
      - SKIMMER: OLIVE GREEN
      - MAIN DRAIN: BLACK
    - WASTE LINES
      - BACKWASH WASTE: DARK BROWN
      - SEWER: DARK GRAY
  - MAKEUP WATER SHALL BE ADDED TO THE POOL BY FREE-FALL DISCHARGE DIRECT TO THE POOL WITH AN AIR GAP OF TWO TIMES THE PIPE DIAMETER OR 6 INCHES MINIMUM ABOVE THE COPING. THE DISCHARGE SHALL BE THROUGH PIPING WITH AN APPROVED VACUUM BREAKER PROTECTION.

DISINFECTANT SYSTEMS

1. PROVIDE A MECHANICAL UNIT FOR FEED OF A CHEMICAL FOR PH CONTROL.
2. PROVIDE A POSITIVE DISPLACEMENT TYPE CHEMICAL FEEDER TO MAINTAIN PH OF POOL WATER WITHIN THE RANGE OF 7.2 TO 7.6.

SIGNAGE

1. RULES AND REGULATIONS: POST INSTRUCTIONS TO BATHERS AT ENTRANCE TO DRESSING ROOMS PROVIDING THE FOLLOWING:
  - ADMISSION TO THE POOL IS REFUSED TO ALL PERSONS HAVING ANY CONTAGIOUS DISEASE, INFECTIOUS CONDITION SUCH AS COLDS, FEVER, RINGWORM, FOOT INFECTIONS, SKIN LESIONS, CARBUNCLES, BOILS, INFLAMED EYES, EAR DISCHARGES OR ANY OTHER CONDITION WHICH HAS THE APPEARANCE OF BEING INFECTIOUS, PERSONS WITH EXCESSIVE SUNBURN, ABRASIONS THAT HAVE NOT HEALED, CORN PLASTERS BUNION PADS, ADHESIVE TAPE, RUBBER BANDAGES OR BANDAGES OF ANY KIND MAY NOT BE PERMITTED, A PERSON UNDER THE INFLUENCE OF ALCOHOL OR EXHIBITING ERRATIC BEHAVIOR SHALL NOT BE PERMITTED IN THE POOL AREA.
  - NO FOOD, DRINK, GUM OR TOBACCO WILL BE ALLOWED IN OTHER THAN SPECIFICALLY DESIGNATED AND CONTROLLED SECTIONS OF THE POOL AREA.
  - PERSONAL CONDUCT WITHIN THE POOL FACILITY MUST BE SUCH THAT THE SAFETY OF SELF AND OTHERS IS NOT JEOPARDIZED. NO RUNNING, BOISTEROUS OR ROUGH PLAY, EXCEPT SUPERVISED WATER SPORTS, IS PERMITTED.
  - SPITTING, SPOUTING OF WATER, BLOWING THE NOSE OR OTHERWISE INTRODUCING CONTAMINANTS INTO THE POOL IS NOT PERMITTED.
  - GLASS, SOAP, LOTION OR OTHER MATERIAL, WHICH MIGHT CREATE HAZARDOUS CONDITIONS OR INTERFERE WITH EFFICIENT OPERATION OF THE SWIMMING POOL, SHALL NOT BE PERMITTED IN THE SWIMMING POOL OR ON THE POOL DECK.
  - ALL APPAREL WORN IN THE POOL SHALL BE CLEAN AND SANITARY. STREET ATTIRE OR CUTOFFS ARE NOT ALLOWED IN THE POOL.
  - CHILDREN WHO ARE NOT TOILET TRAINED SHALL WEAR TIGHT FITTING PLASTIC UNDERWEAR OR SWIM DIAPERS.
  - DIVING IS NOT PERMITTED IN SHALLOW WATER.

- ALL ANIMALS, BIRDS AND DOMESTIC FOUL ARE PROHIBITED FROM ENTERING THE POOL AREA.
  - THE POOL SHALL CLOSE AT 10:00 PM. CHILDREN UNDER THE AGE OF 12 WITHOUT ADULT SUPERVISION WILL NOT BE ALLOWED.
  - THE POOL LIFELINE SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE POOL MANAGEMENT.
2. BATHER LOAD - POST A SIGN IN A CONSPICUOUS LOCATION WITHIN THE POOL ENCLOSURE STATING: \*BATHER LOAD: 216

ADDITIONAL SIGNS

- WARNING - NO LIFE GUARD ON DUTY
- NO DIVING ( SIGN TO BE POSTED ON WALL AND DECK)
- EMERGENCY USE ONLY (SIGN TO BE POSTED ABOVE SAFETY EQUIPMENT)
- 911 (SIGN POSTED ABOVE EMERGENCY TELEPHONE)
- HOURS OF OPERATION:
- POOL PERMIT
- ADDITIONAL SIGNAGE MAY BE REQUIRED BY THE OWNER, COORDINATE ALL SIGNAGE WITH THE OWNER PRIOR TO FABRICATION
- DEPTH MARKERS
  - a. DEPTH MARKERS SHALL BE IN NUMERALS FOLLOWED BY THE LETTERS "FT" TO INDICATED FEET. MARKERS SHALL BE 4" MINIMUM IN HEIGHT AND BE A COLOR CONTRACTING WITH THE BACKGROUND.
  - b. DEPTH MARKERS SHALL BE SET IN INLAID TILE.
  - c. MARKERS SHALL BE LOCATED ON BOTH SIDES AND BOTH ENDS OF THE POOL.
  - d. MARKERS SHALL BE LOCATED AT OR ABOVE THE WATER LINE ON THE POOL WALL AND ON THE COPING.
  - e. MARKERS SHALL BE LOCATED AT MAXIMUM AND MINIMUM DEPTH POINTS OF THE POOL AND AT THE POINTS OF BREAK BETWEEN THE DEEP AND SHALLOW PORTIONS AT INTERMEDIATE INCREMENTS OF DEPT, SPACE AT NOT MORE THAN 25 FOOT INTERVALS, OR AS NOTED ON PLANS.

CONDUIT

FOR FLEXIBLE CONNECTIONS TO SWIMMING POOL, SPA, AND HOT TUB MOTORS PER NEC680.21(A)(3) & 680.42(A)(1)

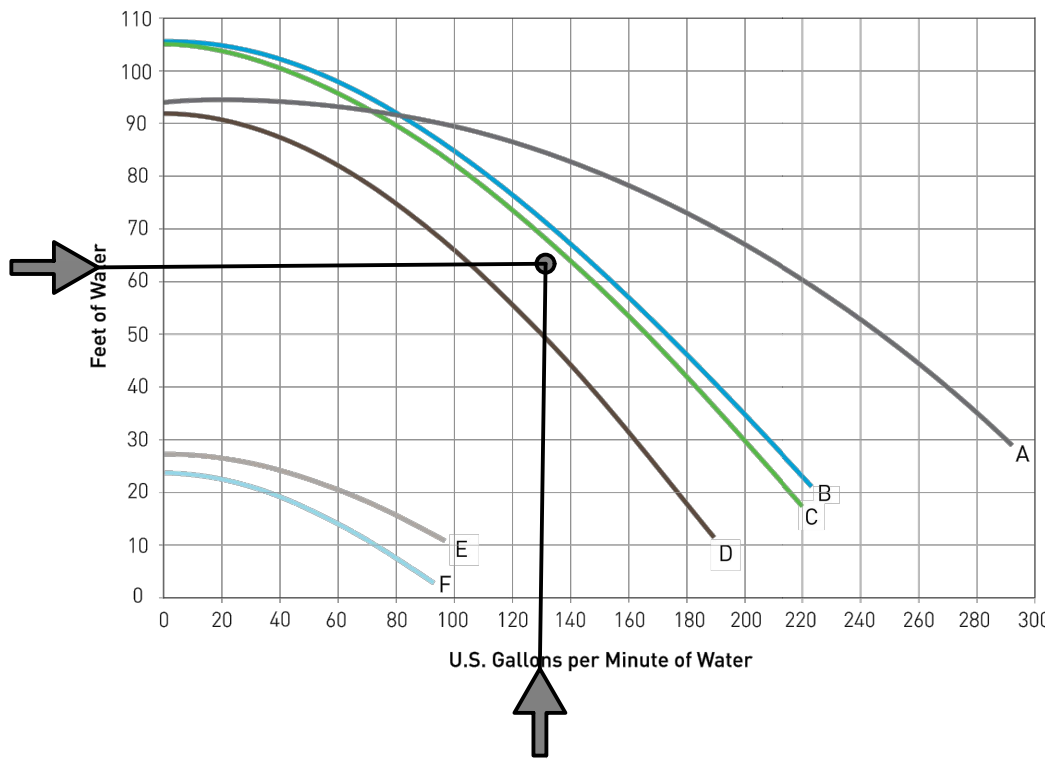
TITAN TYPE CB IS MANUFACTURED WITH A SPIRAL-WOUND STRIP OF HEAVY GAUGE, CORROSION RESISTANT, HOT-DIPPED GALVANIZED STEEL. FOR 3/8" THROUGH 1-1/4" TRADE SIZES, THE CORE IS CONSTRUCTED WITH A SQUARE-LOCKED STEEL STRIP WITH AN INTEGRAL COPPER-BONDING STRIP ENCLOSED WITHIN THE STEEL CONVOLUTIONS. FOR 1-1/2" THROUGH 4" TRADE SIZES, THE CORE IS CONSTRUCTED WITH A FULLY-INTERLOCKED STEEL STRIP. A RUGGED, FLAME-RETARDANT, FLEXIBLE PVC JACKET IS EXTRUDED OVER THE STEEL CORE. THE BLUE JACKET RESISTS OILS, MILD ACIDS, AND EXPOSURE TO SUNLIGHT. OTHER JACKET COLORS ARE AVAILABLE.

- BLUE COLOR, A PROTECTIVE THERMOPLASTIC OUTER JACKET WHICH SEALS OUT WATER, LIQUIDS, ABRASIVES, ALCOHOL, COOLANTS, CORROSIVE FUMES AND GASES, DIRT, GREASE, MINERAL ACIDS, NON-CONCENTRATED FIXED ALKALINES, PETROLEUM OILS, SALT AIR AND SPRAY, AND WEATHER.
- SMOOTH METAL INTERIOR FOR EASY WIRE PULLING
- UV SUNLIGHT-RESISTANT JACKET
- RATED FOR TEMPERATURE RANGE OF -30°C TO +80°C, 60°C OIL (-22°F TO +176°F, 140°F OIL)
- ACCEPTS STANDARD METALLIC LIQUID TIGHT FITTINGS
- RATED FOR DIRECT BURIAL APPLICATIONS

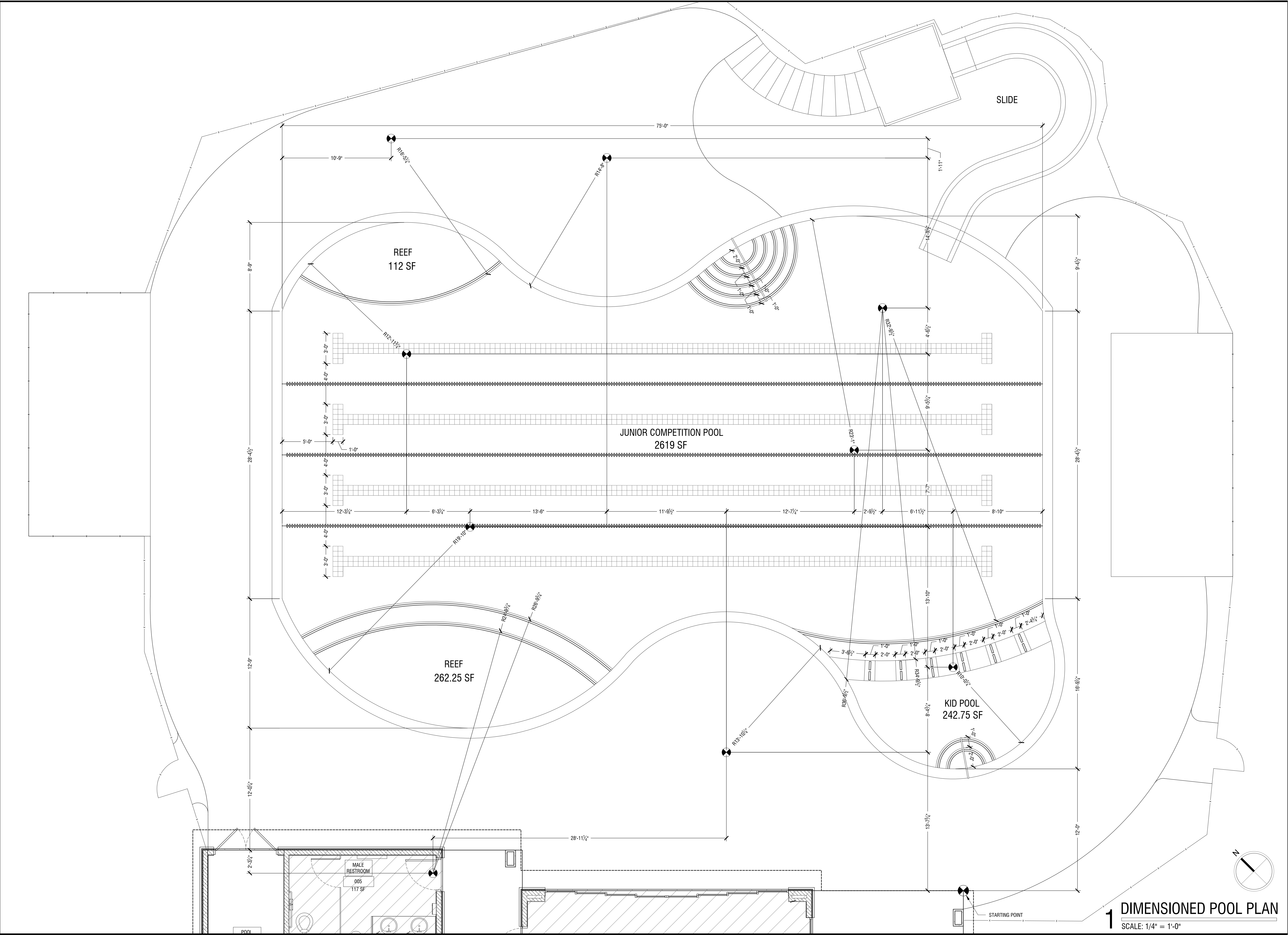
STANDARDS

- NEC TYPE DESIGNATION - TYPE LFMC (LIQUID TIGHT FLEXIBLE METAL CONDUIT)
- ANSI/NFPA-70, NEC ARTICLE 350
- UL LISTED TO UNDERWRITERS LABORATORIES STANDARD ANSI/UL-360 FOR LIQUID TIGHT FLEXIBLE STEEL CONDUIT
- CSA LISTED TO CSA 22.2 NO.56 FOR USE PER THE CANADIAN ELECTRICAL CODE C22.1 SECTION 12-1300


PERFORMANCE CURVES







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

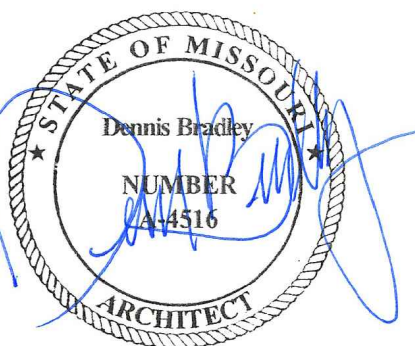


POOL DESIGNER:  
**B&A ARCHITECTURE**  
 100 W 31ST STREET, SUITE 100  
 KANSAS CITY, MO 64108  
 PH: 816-753-6100

CLIENT:  
 SUMMIT HOMES

**WOODSIDE RIDGE**  
**SWIMMING POOL**  
 342 NW AMBERSHAM DR  
 LEE'S SUMMIT, MISSOURI

SEAL



ISSUED: MARCH 17, 2020  
 NO.      REVISION      DATE

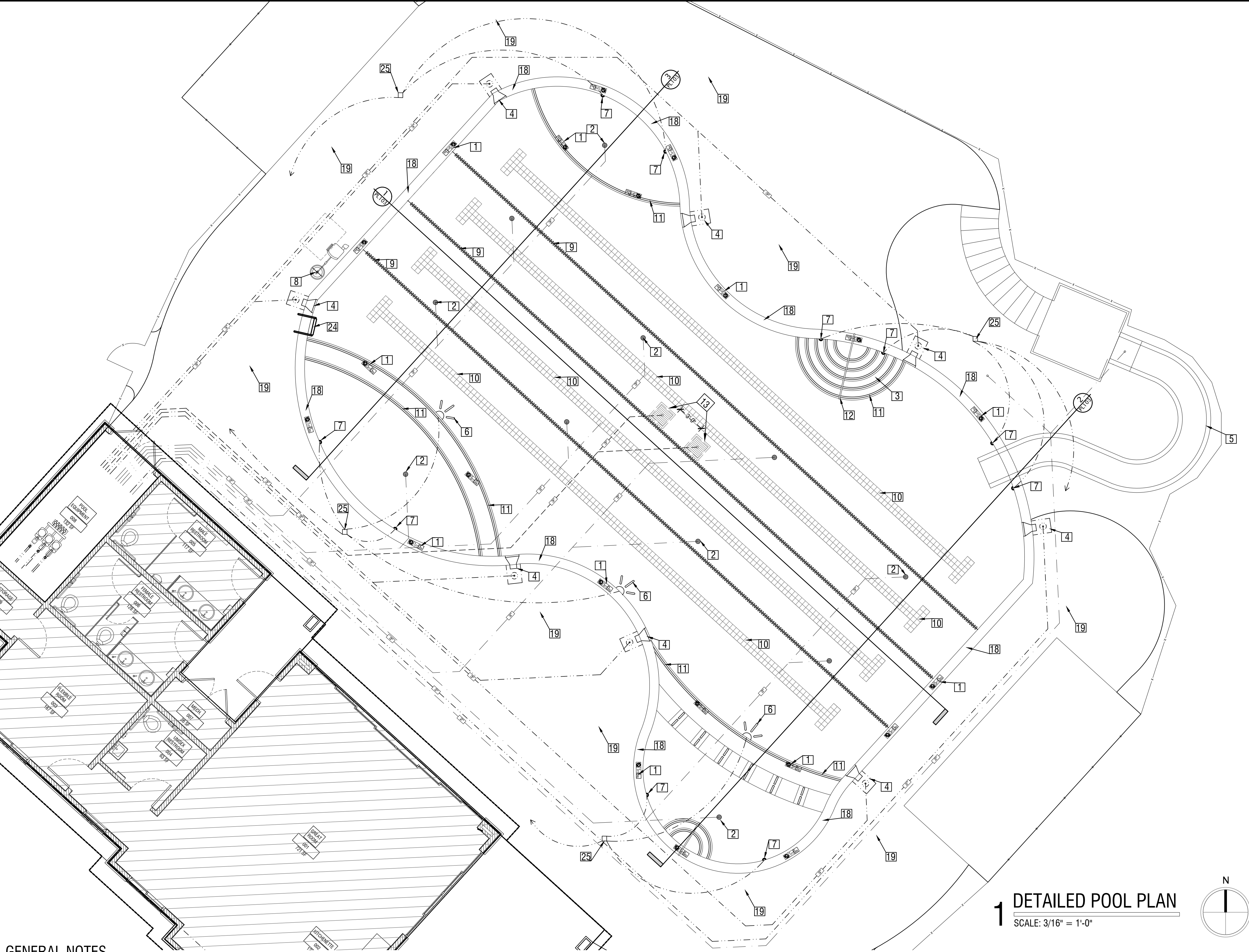

DESIGNED BY DMB  
 DRAWN BY DMB  
 CHECKED BY DMB

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DIMENSIONED POOL PLAN  
**PL101**



1. THE WORK SHALL CONFORM TO THE APPLICABLE BUILDING CODE, AND OTHER ORDINANCES, CODES AND REGULATIONS LISTED IN THE SPECIFICATIONS OR ON THE DRAWINGS, AND REQUIRED BY LOCAL BUILDING AUTHORITIES. THE GOVERNING CODES, RULES AND REGULATIONS ARE COLLECTIVELY REFERRED TO AS 'THE CODE'. THE CONTRACTOR SHALL REPORT ANY INCONSISTENCIES, CONFLICTS OR OMISSIONS THEY MAY DISCOVER TO THE ARCHITECT FOR INTERPRETATION PRIOR TO PERFORMING THE WORK.
2. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL PROVIDE PUBLIC PROTECTION AS NECESSARY AND REQUIRED BY GOVERNING CITY AGENCIES.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK OF ALL SUB-CONTRACTORS AND SHALL PERFORM SUCH MISCELLANEOUS WORK AS MAY BE NECESSARY FOR THEM TO COMPLETE THEIR WORK.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE AND REPORT ANY AND ALL DISCREPANCIES AND/OR UNUSUAL CONDITIONS TO THE ARCHITECT PRIOR TO FINALIZING BIDS OR COMMENCEMENT OF ANY CONSTRUCTION.
5. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE PUBLIC WORKS, BUILDING, AND HEALTH DEPARTMENTS PRIOR TO START OF CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS, AND CHECK ALL OVERNING AUTHORITIES' SPECIFICATIONS FOR GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR OTHERWISE NOTED OR REQUIRED.
7. DO NOT SCALE THESE DRAWINGS, SHOULD ANY DIMENSIONAL DISCREPANCIES BE ENCOUNTERED, CLARIFICATIONS SHALL BE OBTAINED FROM THE ARCHITECT.
8. UNLESS OTHERWISE NOTED ON THESE DRAWINGS OR IN THE SPECIFICATIONS AS BEING N.I.C. OR EXISTING, ALL ITEMS, MATERIALS, ETC., AND THE INSTALLATION OF SAME ARE A PART OF THE CONTRACT DEFINED BY THESE DRAWINGS AND SPECIFICATIONS.
9. THE SITE AND BUILDINGS SHALL BE ACCESSIBLE TO AND FUNCTIONAL FOR THE PHYSICALLY HANDICAPPED.
10. ALL RAMPS SHALL HAVE A NON-SLIP FINISH.
11. DETAILS ARE INTENDED TO SHOW THE INTENT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE FIELD DIMENSIONS OF CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK OF THE CONTRACT.
12. THE CLIENT, ARCHITECT, CONSULTANTS AND ALL INSPECTIONS FROM PERTINENT AGENCIES SHALL BE PERMITTED ACCESS TO THE JOB SITE AT ALL TIMES DURING NORMAL WORKING HOURS.
13. THE CONTRACTOR SHALL VERIFY INSERTS AND EMBEDDED ITEMS WITH ALL APPLICABLE DRAWINGS BEFORE POURING CONCRETE.
14. REFER MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR UTILITY SERVICES AND SITE DEVELOPMENT WORK.



1	DEPTH MARKERS W/ NO DIVING TILE ON COPING (HORIZ SURFACE) AND POOL WALL FACE (VERT. SURFACE)	10	LANE MARKING PORCELAIN TILE, 6 X 6, COLOR SELECTED BY OWNER
2	FLOOR RETURNS	11	2" CONTRASTING TILE ON FACE AND TOP EDGE AT STEPS AND WHERE ELEVATION CHANGE OCCURS IN POOL TILE COLOR SELECTED BY OWNER FROM STANDARD NON-SLIP COLORS
3	POOL STEPS	12	STAINLESS STEEL HANDRAIL WITH PVC SLEEVES
4	SKIMMERS	13	ANTI-VORTEX DUAL FLOOR DRAINS
5	FIBERGLASS POOL SLIDE W/ LADDER, BY OTHERS	14	#4 REBAR AT 12" O.C.E.W.
6	12" LED 120V	15	12" OF $\frac{1}{2}$ " CLEAN GRAVEL
7	PENTAIR LED GLO-BRITES	16	6X6 WATER LINE TILE
8	HANDI-CAP LIFT	17	BOND BEAM 12" X 20", MIN. UNLESS NOTED OTHERWISE
9	LANE LINE W/ CUP ANCHORS AT EACH END		

- 18 BULLNOSE CANTILEVERED PRECAST CONCRETE COPING
- 19 DECK BY OTHERS, SLOPE AWAY FROM POOL
- 20 6" CONCRETE BLOCK
- 21 POOL PLASTER
- 22 WATER TARGET AT EACH END OF SWIMMING LANES
- 23 HYDROSTATIC RELIEF VALVE
- 24 STAINLESS STEEL POOL LADDER
- 25 J-BOX FOR POOL LIGHTING

IBC 2012 SECTION 3109: SWIMMING POOL ENCLOSURES AND SAFETY DEVICES

3109.5 ENTRAPMENT AVOIDANCE

SUCTION OUTLETS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ANSI/APSP-7.

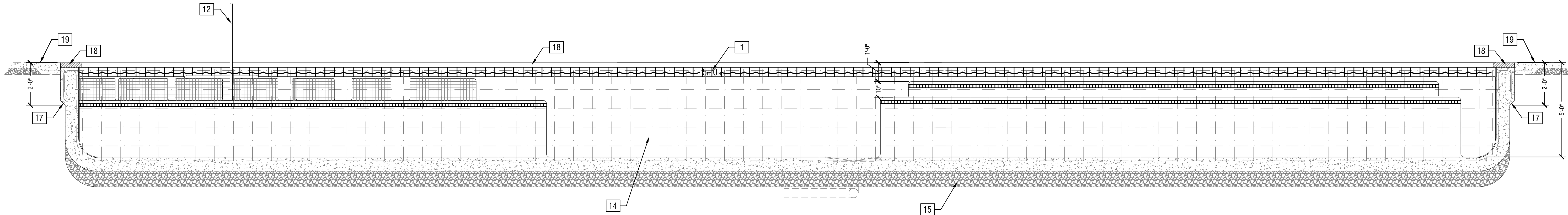
THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING, VERIFYING, SUPPLYING AND INSTALLING THE EQUIPMENT, INCLUDING PUMPS, FILTERS, PIPING, INLETS, SKIMMERS, DRAINS, APPROPRIATELY SIZED FOR THE SIZE OF POOL DESIGNED. THE EQUIPMENT SHALL BE SIZED TO OPTIMIZE THE LIFE OF THE EQUIPMENT AND EFFICIENCY OF THE SYSTEM AND STILL MEET THE REQUIREMENTS OF A SAFE AND CLEAN POOL.

THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT, MISSOURI; JACKSON COUNTY HEALTH DEPARTMENT, AND THE STATE OF MISSOURI ORDINANCES AND CODES REGARDING THE CONSTRUCTION OF PUBLIC SWIMMING POOLS

WINTERIZATION OF POOL OR DRAINING OF POOL FOR MAINTENANCE: POOL SHALL BE DE-CHLORINATED PRIOR TO DRAINING FOR WINTER MONTHS. STOP ADDING CHLORINE TO THE POOL FOR A PERIOD OF 4-5 DAYS, MONITOR THE CHLORINE LEVEL WITH A SWIMMING POOL CHLORINE TEST KIT. WHEN THERE IS NO LONGER ANY DETECTABLE CHLORINE IN THE SWIMMING POOL IT IS SAFE TO DISCHARGE THE WATER. USING A SUBMERSIBLE PUMP, DRAIN POOL TO LANDSCAPED AREAS. THE DISCHARGE AREA SHALL BE IDENTIFIED ON THE CIVIL SITE DRAWINGS.

# PL102



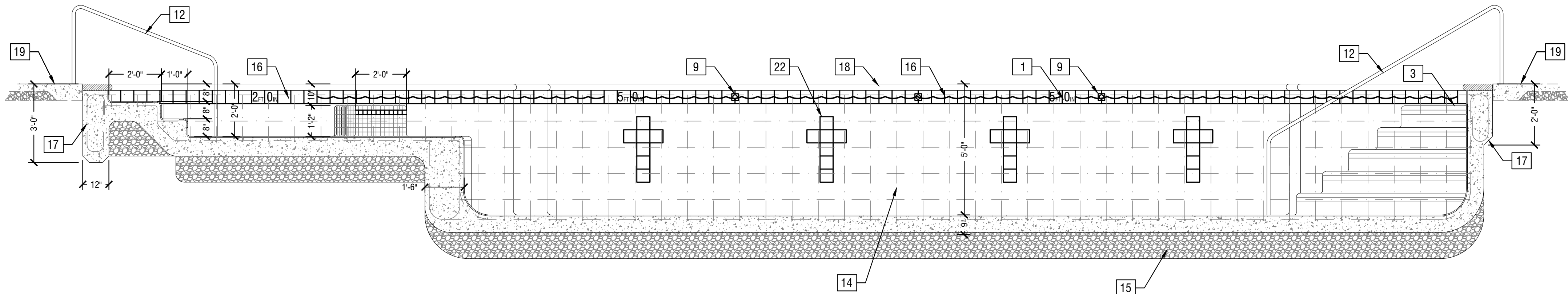


## GENERAL NOTES

1. DEPTH MARKERS W/ NO DIVING TILE ON COPING (HORIZ SURFACE) AND POOL WALL FACE (VERT. SURFACE)
2. FLOOR RETURNS
3. POOL STEPS
4. SKIMMERS
5. FIBERGLASS POOL SLIDE w/ LADDER, BY OTHERS
6. 12" LED 120V
7. PENTAIR LED GLO-BRITES
8. HANDI-CAP LIFT
9. LANE LINE W/ CUP ANCHORS AT EACH END
10. LANE MARKING PORCELAIN TILE, 6 X 6, COLOR SELECTED BY OWNER
11. 2" CONTRASTING TILE ON FACE AND TOP EDGE AT STEPS AND WHERE ELEVATION CHANGE OCCURS IN POOL TILE COLOR SELECTED BY OWNER FROM STANDARD NON-SLIP COLORS
12. STAINLESS STEEL HANDRAIL WITH PVC SLEEVES
13. ANTI-VORTEX DUAL FLOOR DRAINS
14. #4 REBAR AT 12" O.C.E.W.
15. 12" OF  $\frac{1}{2}$ " CLEAN GRAVEL
16. 6X6 WATER LINE TILE
17. BOND BEAM 12" X 20", MIN. UNLESS NOTED OTHERWISE
18. BULLNOSE CANTILEVERED PRECAST CONCRETE COPING
19. DECK BY OTHERS, SLOPE AWAY FROM POOL
20. 6" CONCRETE BLOCK
21. POOL PLASTER
22. WATER TARGET AT EACH END OF SWIMMING LANES
23. HYDROSTATIC RELIEF VALVE
24. STAINLESS STEEL POOL LADDER
25. J-BOX FOR POOL LIGHTING
26.  $\frac{3}{4}$ " WATER SOURCE FOR SLIDE
27.  $\frac{3}{4}$ " WATER SOURCE TO ROCK OUTCROPPING WATER FALL

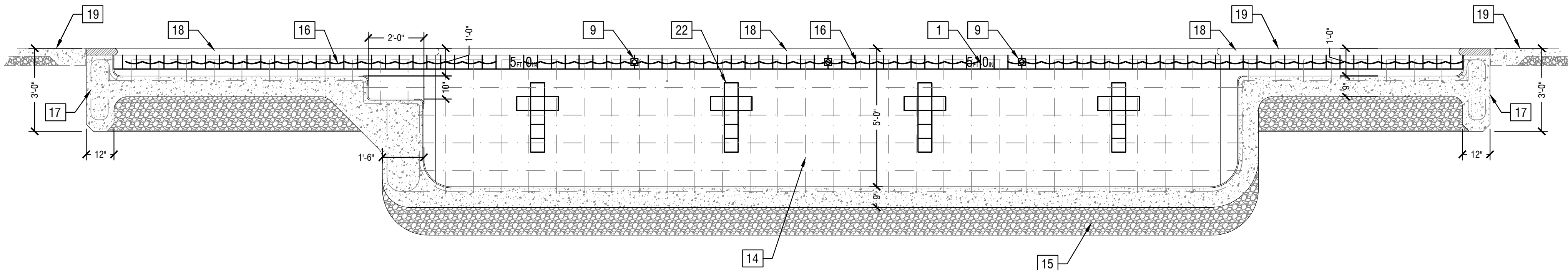
### 1 POOL SECTION

SCALE: 3/8" = 1'-0"



### 2 POOL SECTION

SCALE: 3/8" = 1'-0"



### 3 POOL SECTION

SCALE: 3/8" = 1'-0"

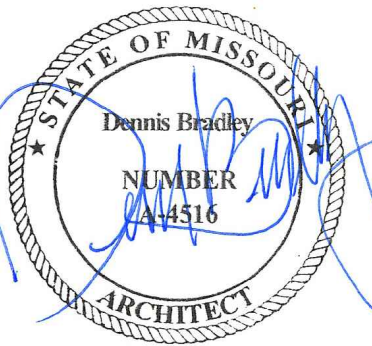


POOL DESIGNER:  
B&A ARCHITECTURE  
100 W 31ST STREET, SUITE 100  
KANSAS CITY, MO 64108  
PH: 816-753-6100

CLIENT:  
SUMMIT HOMES

WOODSIDE RIDGE  
SWIMMING POOL  
342 NW AMBERSHAM DR  
LEE'S SUMMIT, MISSOURI

SEAL



ISSUED: MARCH 17, 2020

NO.	REVISION	DATE

DESIGNED BY DMB  
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POOL SECTIONS

PL103





## SFAR



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## POOL DETAILS

# PL104



SCALE: N.T.S.

NOTE:

GENERAL CONTRACTOR SHALL COORDINATE WITH THE  
OF THE BLOCK OUTS IN THE CONCRETE FOOTINGS AND  
THE INSTALLATION OF THE FOOTINGS.

## POOL EQUIPMENT ROOM NOTES

- |    |   |
|----|---|
| 2  | NOT USED  |
| 3  | NOT USED  |
| 4  | WATER SERVICE LINE<br>SUPPLY MAINFOLD   |
| 5  | BLOCK OUT IN CONCRETE FOR POOL LINES. COORDINATE WITH POOL CONTRACTOR   |
| 6  | RETURN MAINFOLD   |
| 7  | NOT USED  |
| 8  | COLD WATER SHUT OFF VALVE   |
| 9  | JUNCTION BOX IN DECK FOR POOL LIGHTING  |
| 10 | PROVIDE VENTILATION DIRECT TO EXTERIOR AND COMBUSTION AIR<br>RE: MECHANICAL DRAWINGS  |
| 11 | VALVE, TYP.   |
| 12 | VAC ALERT VA-2000   |
| 13 | SVRS @ EACH SUCTION LINE  |
| 14 | NOT USED  |
| 15 | RE: ELECTRICAL DRAWINGS FOR ELECTRICAL SERVICE PANEL AND POWER FOR THE<br>POOL EQUIPMENT.   |
| 16 | RE: PUMBING DRAWINGS FOR DOMESTIC WATER CONNECTIONS AND WASTE LINES FOR<br>THE POOL EQUIPMENT.  |
| 17 | THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION OF THE<br>THE VENT AND COMBUSTION AIR PIPING FOR THE POOL HEATER. THE INSTALLATION OF<br>THE VENT AND COMBUSTION AIR PIPING SHALL BE PER THE REQUIREMENTS OF THE<br>HEATER MANUFACTURER SO AS TO NOT VOID THE WARRANTY OF THE POOL HEATER.<br>THE VENT TERMINATION MUST BE A MINIMUM OF 4' HORIZONTALLY FROM THE DOOR OR<br>A MINIMUM OF 12' ABOVE THE DOOR. |
| 18 | PROVIDE A FLOOR DRAIN AT THE BACKFLOW PREVENTER.  |

## NOTES

RECIRCULATION POOL PUMP MUST PROVIDE A  
TURNOVER RATE OF WATER IN SIX (6) HOURS OR  
LESS

THE POOL CONTRACTOR WILL FURNISH A MSDS  
SHEET UPON FINAL INSPECTION.

- RETURN LINES AND SUPPLY LINES TO THE POOL SHALL BE SCHEDULE 80.
- POOL PUMP EQUIPMENT SHALL BE BONDED PER NEC 2011 6080.26(6)

- POOL PUMP EQUIPMENT SHALL BE BONDED PER  
NEC 2011 6080.26(6)

- 

- 2"x2" LINE POSTS WITH  
CAST PYRAMID CAP



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



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



\_\_\_\_\_



SCALE: 3/8" = 1'-0"



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



NOT TO SCALE



NOT TO SCALE



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



10 SCALE: 3" = 1'-0"

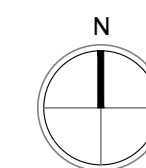




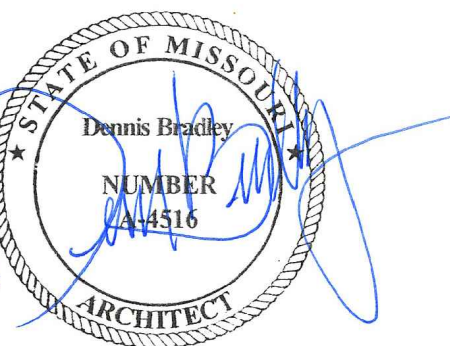
TWO OPTIONS ARE PROVIDED BELOW FOR EQUIPOTENTIAL BONDING. USE OPTION ONE WHEN STEEL REBAR IS USED THAT IS ON-CONDUCTIVE. USE OPTION TWO WHEN EPOXY-COATED-REBAR IS USED.

1. INSTALL REBAR IN A GRID PATTERN, AS SHOWN, AT EACH POINT WHERE THE REBAR CROSSES. THE REBAR SHALL BE TIED TOGETHER BY STEEL TIE WIRE. THIS STEEL REBAR GRID PROVIDES AN EQUIPOTENTIAL BONDING GRID TO WHICH ALL METAL PARTS IN THE POOL, AND ANY METAL PARTS IN THE AREA SURROUNDING THE POOL, SHALL BE CONNECTED. THE STEEL GRID SHALL BE MADE OF STEEL BARS NOT SMALLER THAN 8 AWG (AMERICAN CAGE WIRE).
2. THIS ALTERNATIVE-BONDING GRID SHALL BE CONSTRUCTED OF MINIMUM 8 AWG BARE, SOLID-COPPER CONDUCTORS ARRANGED IN A 12 X 12 INCH NETWORK OF CONDUCTORS WITH A TOLERANCE OF FOUR INCHES AND SHALL BE INSTALLED IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN, AND SHALL COVER THE ENTIRE AREA OF THE INSIDE OF THE POOL, AND EXTEND TO THE INSIDE OF THE POOL DECKING BY A MINIMUM OF 12 INCHES. THE CONDUCTORS MUST BE CONNECTED TO EACH OTHER AT ALL POINTS OF CROSSING AND CONNECTIONS MUST BE MADE IN ACCORDANCE WITH THE REQUIREMENTS IN SECTION 290.8. SUCH AS EXOTHERMIC WELDING, LISTED PRODUCTS, OR LISTED CLAMP. THE CONNECTIONS TO OTHER LISTED MEANS. THE FINAL REQUIREMENT IS TO SECURE THE BELOW-GRADE BONDING GRID WITHIN OR UNDER THE POOL, AND DECK.

# 1 POOL BONDING DIAGRAM



**WOODSIDE RIDGE  
SWIMMING POOL  
342 NW AMBERSHAM DR  
LEE'S SUMMIT, MISSOURI**



MARCH 17, 2020

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# POOL BONDING DIAGRAM

## PL105