



BEAR LAKE STAFF DUPLEX, IDPR PROJECT #3503261

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Abbreviations		Material Legend		Symbol Legend		Sheet Index	
ABBR. DESCRIPTION ACC STA ACCESSIBLE STATION AC ADJUSTABLE ALT ALTERNATE ALUM ALUMINUM AB ANCHOR BOLT L ANGLE ASPH ASPHALT BSMT BASEMENT BRG BEARING BM BENCHMARK BLKG BLOCKING BO BOARD B.O. BOTTOM OF BLDG BUILDING B.U.R. BUILT UP ROOF CLG CEILING CL CENTER LINE CT CERAMIC TILE CB CHALK BOARD CH CHANNEL CO CLEAN OUT COL COLUMN CONC CONCRETE CONN CONNECTION CONT CONTINUOUS CONTR CONTRACTOR DM DIMENSION DWG DRAWING EA EACH ELECT ELECTRICAL EWG ELECTRIC WATER COOLER ELEV ELEVATION EQ EQUAL EQUIP EQUIPMENT EXIST EXISTING (E) EXISTING EXP EXPANSION EXT EXTERIOR FIN FINISH FEC FIRE EXTINGUISHER CABINET FLR FLOOR FD FLOOR DRAIN GALV GALVANIZED GI GALVANIZED IRON GA GAUGE GYP BD GYPSUM BOARD HDWD HARD WOOD HT HEIGHT HM HOLLOW METAL HORIZ HORIZONTAL ID INSIDE DIAMETER INSUL INSULATION INT INTERIOR JT JOINT MFR MANUFACTURER MB MARKER BOARD MAX MAXIMUM		ABBR. DESCRIPTION MECH MECHANICAL MTL METAL MIN MINIMUM MISC MISCELLANEOUS MT MOUNT (N) NEW NC NOT IN CONTRACT NTS NOT TO SCALE ON CENTER ON CENTER OPNG OPENING OPP OPPOSITE OD OUTSIDE DIAMETER OH OVERHEAD OFICI OWNER FURNISHED/ CONTRACTOR INSTALLED OFIOI OWNER FURNISHED/ OWNER INSTALLED PARTN PARTITION P-LAM PLASTIC LAMINATE PL PLATE PLYWD PLYWOOD PREFAB PREFABRICATED PROJ PROJECTION QT QUARRY TILE RAD RADIUS REF REFRIGERATOR REINF REINFORCED REV REVISION ? ROUND SCHED SCHEDULE SIM SIMILAR SHT SHEET SPEC SPECIFICATION SQ SQUARE SS STAINLESS STEEL STD STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURAL SUSP SUSPENDED, SUSPENSION SYS SYSTEM TB TACKBOARD TEL TELEPHONE TV TELEVISION TEMP TEMPORARY TS TUBE STEEL THRES THRESHOLD TOL TOLERANCE T.O. TOP OF T & B TOP AND BOTTOM TYP TYPICAL VERT VERTICAL UN.O. UNLESS NOTED OTHERWISE WC WATER CLOSET WM WATER METER WWF WELDED WIRE FABRIC W WIDE FLANGE WDO WINDOW WI WITH W/O WITHOUT WD WOOD		SYMBOL DESCRIPTION BUILDING SECTION SECTION CUT DETAIL BUBBLE REVISIONS ELEVATION DOOR NUMBER WINDOW TYPES WALL TYPE ROOM TAGS SLOPE GRID BUBBLE KEY NOTES		Architectural Sheet Index	
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Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

MARK:	DATE:	DESCRIPTION:

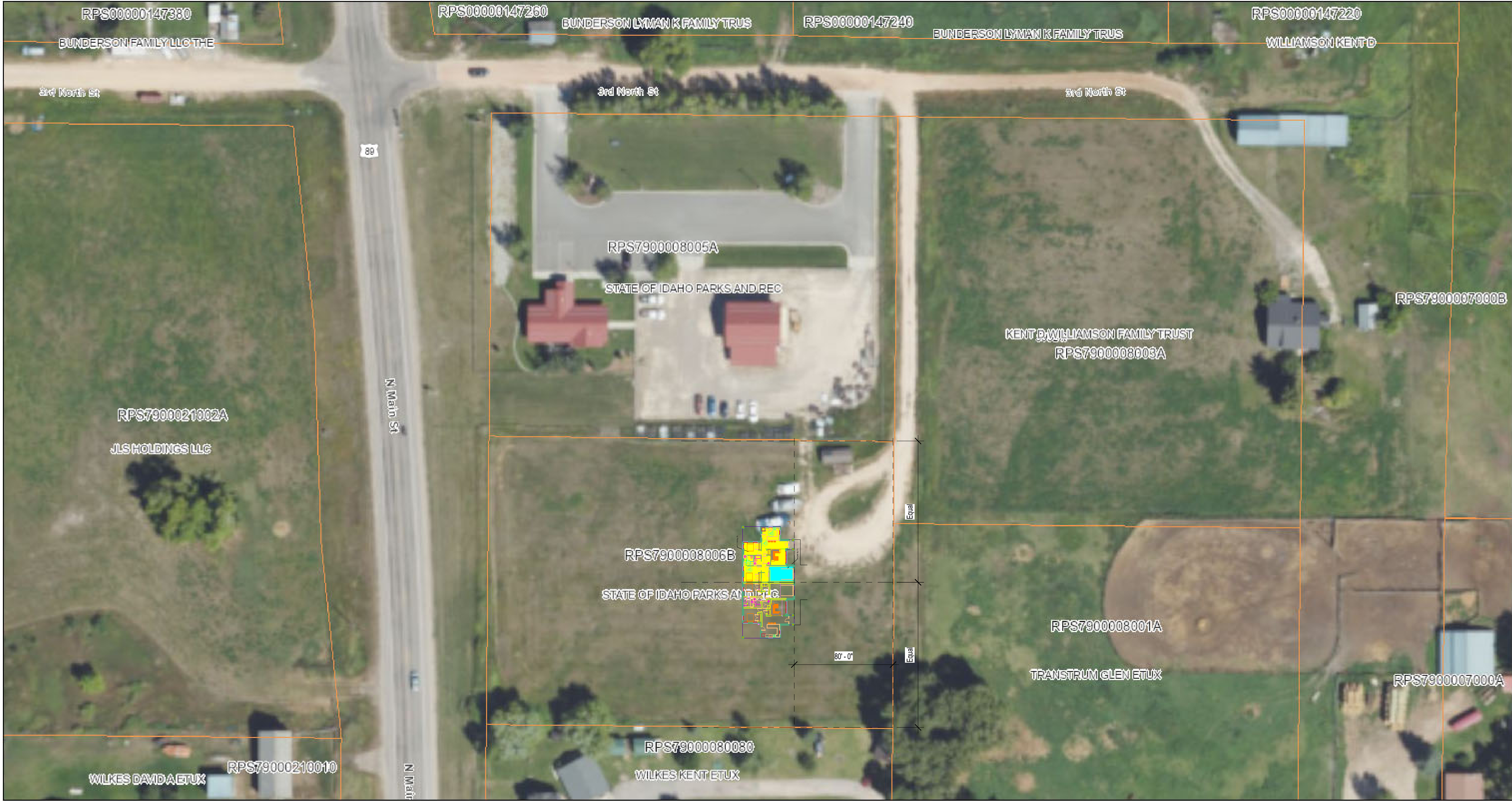
PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026



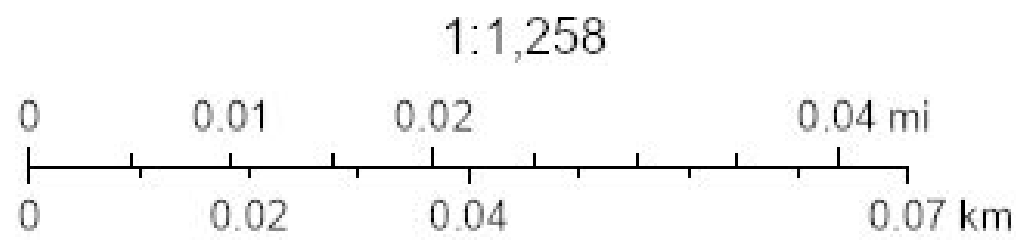
Title Sheet

G100

ArcGIS Web Map



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1 Site Plan
G101 1" = 50'-0"

Bear Lake Staff Duplex, IDPR Project #3503261

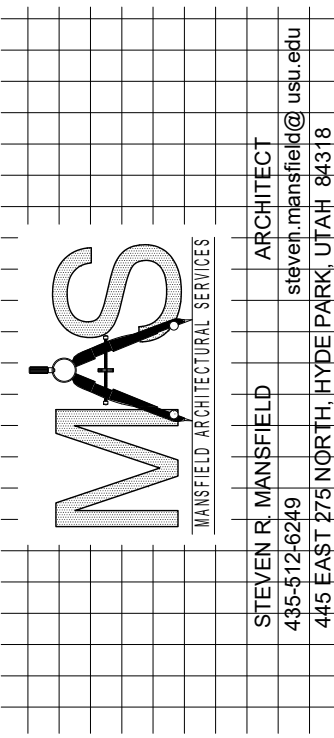
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ISSUED 7/6/2026



Site Plan

G101



THE CONTRACTOR'S PERSONNEL, EQUIPMENT, AND OPERATIONS SHALL COMPLY FULLY WITH ALL APPLICABLE STANDARDS, REGULATIONS, AND REQUIREMENTS OF EXISTING FEDERAL, IDAHO STATE, AND LOCAL GOVERNMENTAL AGENCIES. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING:

- FEDERAL, STATE, AND LOCAL INSPECTING AGENCIES:**

PUBLIC SAFETY AND CONVENIENCE:

WORKMANSHIP:

- ### CHANGES IN THE WORK:

THE OWNER SHALL HAVE THE RIGHT, WITHIN THE GENERAL SCOPE OF THE WORK, TO MAKE CHANGES IN THE WORK, INCLUDING BUT NOT LIMITED TO CHANGES IN THE PLANS AND SPECIFICATIONS PERTAINING TO BEACH WIDTH, BEACH ELEVATION, BEACH VOLUME, BEACH LENGTH, ENVIRONMENTAL PROTECTION, IN OR TO THE METHOD OR MANNER OF PERFORMANCE OF THE WORK, IN OR TO EQUIPMENT, MATERIALS, SERVICE OR SITE, IN OR TO THE MODE OR MANNER OR PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PROMPTLY COMPLY WITH ANY AND ALL WRITTEN CHANGE ORDERS ISSUED BY THE ENGINEER AND/OR OWNER.

1. THE CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY ITSELF, BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. THE INFORMATION PROVIDED BY THE OWNER OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO, THE INDEPENDENT VERIFICATION BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL BE HELD RESPONSIBLE AND SHALL BEAR ALL COSTS AND/OR EXPENSES FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER.
3. NO CHANGE IN DESIGN LOCATION OR GRADE SHALL BE MADE BY THE CONTRACTOR WITH WRITTEN APPROVAL FROM THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING AND STAKING FOR COMPLETION OF THE WORK.
5. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCHMARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL COSTS FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES.
7. ALL EXCESS SOILS AND MATERIALS SHALL BE STOCKPILED ON SITE AT A LOCATION DESIGNATED BY THE OWNER.
8. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTORS EXPENSE, TO MINIMIZE ANY PARTICULATE AIR-BORN NUISANCE OR FUGITIVE DUST.
9. IN THE EVENT EXISTING SIGNAGE, LANDSCAPE FEATURES, OR ANY SUCH/OTHER IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED AND REPLACED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED, THE COST OF REPLACING OR REPAIRING SUCH EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE RESPECTIVE UNIT PRICE BID ITEM.

- ## PLANS AND SPECIFICATIONS:

1. ANY AMBIGUITIES OR CONFLICTS IDENTIFIED BY THE CONTRACTOR, CONTRACTOR'S REPRESENTATIVE, OWNER, OR DEPARTMENT OF FACILITIES AND CONSTRUCTION MANAGEMENT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
2. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND ORDINARY FOR PROPER COMPLETION OF THE WORK PROPOSED HEREIN AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE.
3. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.

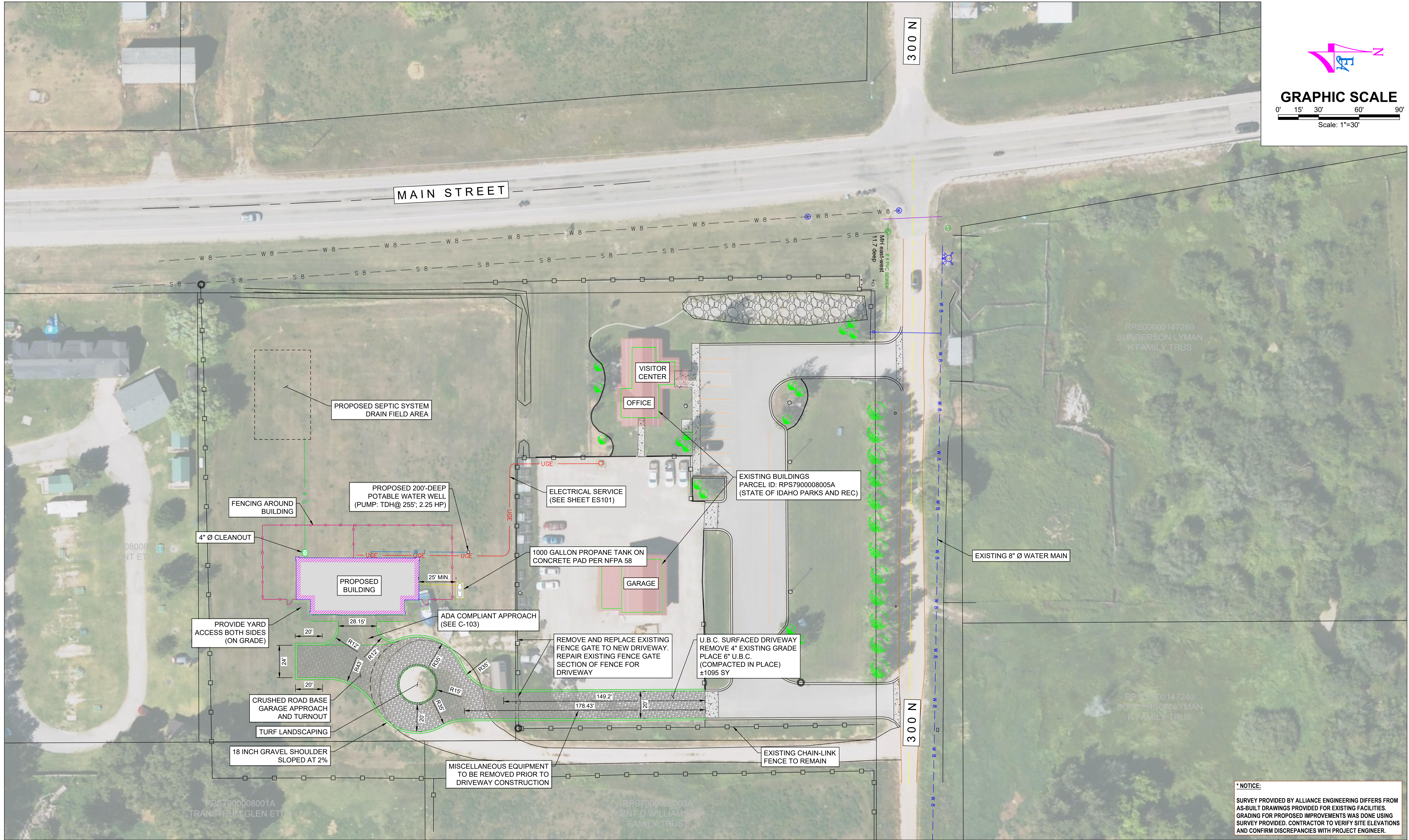
CONTRACTOR SHALL EXCAVATE, PREPARE, FORM, SET, AND PLACE PORTLAND CEMENT CONCRETE PAVEMENT TO A THICKNESS OF 5" (UNLESS OTHERWISE NOTED) IN ALL FLATWORK AREAS WHERE SHOWN; AND, SHALL FINISH AND APPLY A CURE-ALL COMPOUND, AND PROVIDE CONSTRUCTION JOINTS AND/OR CONTROL JOINTS IN ACCORDANCE WITH ISPOWC STANDARDS AND SPECIFICATIONS. ALL CAST-IN-PLACE PORTLAND CEMENT CONCRETE SHALL BE 5-1/2 SACK MIX HAVING A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI (4*±1 SLUMP, 5%±1 AIR ENTRAINMENT).

THE CONTRACTOR SHALL CONTINUOUSLY MARK UP A SET OF THE CONTRACT DRAWINGS BASED ON THE FIELD CHANGES AND AS-BUILT CONDITIONS. THE MARKED UP SET OF CONTRACT DRAWINGS SHALL BE AVAILABLE ON SITE AT ALL TIMES. THE CONTRACTOR SHALL BRING THE UPDATED SET TO EACH CONSTRUCTION MEETING. A COMPLETE SET OF MARKED UP CONTRACT DRAWINGS SHALL BE PROVIDED TO THE OWNER AND ENGINEER AT THE COMPLETION OF THE PROJECT

	CENTERLINE OF IMPROVEMENT		EDGE OF NEW PAVEMENT
	EDGE OF EXISTING PAVEMENT		NEW CONTOUR LINE
	EXISTING CONTOUR LINE		NEW DITCH/SWALE
	EXISTING DITCH		NEW FENCE LINE
	EXISTING FENCE LINE		NEW ELECTRIC/POWER LINE
	EXISTING ELECTRIC/POWER LINE		NEW WATER LINE
	EXISTING WATER LINE		NEW WATER METER
	EXISTING WATER METER		NEW WATER VALVE
	EXISTING WATER VALVE		NEW FIRE HYDRANT
	EXISTING FIRE HYDRANT		
	EXISTING SEWER LINE		
	EXISTING SEWER MANHOLE		
FG	FINISHED GRADE		
TC	TOP OF CONCRETE		
TA	TOP OF ASPHALT		
N	NORTHING		
E	EASTING		

5. ALL CONCRETE SHALL MEET THE REQUIREMENTS OF ACI-301, "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS." PROPORTIONING OF INGREDIENTS FOR EACH CONCRETE MIX SHALL BE BY METHOD 2 OR THE ALTERNATE PROCEDURE GIVEN IN ACI-301. PLACE CONCRETE PER ACI-304 AND CONFORM TO ACI-604 (306) FOR COLD WEATHER PLACEMENT AND ACI-605 (305) FOR HOT WEATHER PLACEMENT; USE INTERIOR MECHANICAL VIBRATORS WITH 7,000 RPM MINIMUM FREQUENCY. DO NOT OVER-VIBRATE. CONCRETE SHALL BE PLACED MONOLITHICALLY BETWEEN CONSTRUCTION AND CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURE FOR SEVEN DAYS AFTER PLACING.
2. MATERIALS
 - a. CEMENT: EXPOSURE CLASS SO: ASTM 150, TYPE I/II, OR ASTM C595, TYPE IL. FOR TYPE IL CEMENT, LIMIT LIMESTONE CONTENT TO 7% MAX. AND BLAINE FINENESS TO BE AT LEAST 500 M²/KG.
 - b. COARSE AND FINE AGGREGATE: ASTM C33.
 - c. WATER SHALL BE CLEAN AND POTABLE.
 - d. FLY ASH: ASTM C618, CLASS F, MAXIMUM FLY ASH CONTENT AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIALS SHALL BE 25 PERCENT.
3. STRENGTH
 - a. $f_c = 4500$ PSI AT 28 DAYS
 - b. MAX. W/C RATION = 0.45
4. EXPOSURE CLASSIFICATION
 - a. F3 - EXPOSED TO FREEZING AND THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND DEICING CHEMICALS
 - b. S0 - LOW EXPOSURE TO WATER SOLUBLE SULPHATE
 - c. W0 - MAY BE IN CONTACT WITH WATER, LOW PERMEABILITY IS NOT REQUIRED.
 - d. C2 - EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES OR DEICING CHEMICALS.
5. ADMIXTURES
 - a. AIR ENTRAINMENT: ASTM C260 AND ASTM C494, ENTRAIN 6% PLUS/MINUS 1.5% BY VOLUME IN ALL EXPOSED CONCRETE.
 - b. WATER REDUCING ADMIXTURE: ASTM C494, ADMIXTURES SHALL BE USED IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - c. SYNERGIZED PERFORMANCE SYSTEMS: CONCRETE USING ADMIXTURES TO PRODUCE FLOWABLE CONCRETE MAY BE USED SUBJECT TO ENGINEER'S APPROVAL.
 - d. NO OTHER ADMIXTURE PERMITTED UNLESS APPROVED BY THE ENGINEER OF RECORD.
6. A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER PRIOR TO COMMENCING WORK.
7. ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
8. BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES' TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
9. REFER TO DRAWINGS FOR TYPICAL CONSTRUCTION JOINT DETAILS. UNLESS NOTED IN DRAWINGS, ALL REINFORCEMENT SHALL BE CONTINUOUS THROUGH JOINTS.
10. WHERE EXTERIOR SLABS ON GRADE ABUT FOUNDATIONS OR COLUMNS PROVIDE 3/8" PREFORMED EXPANSION JOINT WITH SEALANT.
11. SEE PLANS OR ADDITIONAL SITE NOTES FOR CONTROL JOINT, EXPANSION JOINT, AND SUBGRADE PREPARATION FOR CONCRETE WORK.

PUBLISHED				DRAWN <u> </u> BW		ATTENTION LINE IS 2-INCHES AT 24"x36" SIZE IF NOT 2-INCHES, SCALE DRAWING ACCORDINGLY	PRELIMINARY DRAWING NOT FOR CONSTRUCTION	BEAR LAKE STATE PARK 25 EAST 300 NORTH ST. CHARLES, ID 83272 PHONE: (208) 945-2325							BEAR LAKE PRIMITIVE CAMPGROUND BEAR LAKE TWIN HOMES		PROJECT NO: 14-24-0126	
DESIGNED <u> </u> ED				SHEET ID: C101														
APPROVED <u> </u> ED				GENERAL NOTES AND SPECIFICATIONS											DATE: 01-2026		PAGE NO: 1	
QA <u> </u> ED																		
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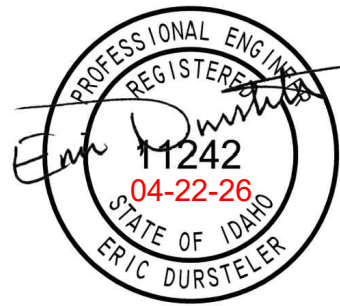


*** NOTICE:**
SURVEY PROVIDED BY ALLIANCE ENGINEERING DIFFERS FROM AS-BUILT DRAWINGS PROVIDED FOR EXISTING FACILITIES. GRADING FOR PROPOSED IMPROVEMENTS WAS DONE USING SURVEY PROVIDED. CONTRACTOR TO VERIFY SITE ELEVATIONS AND CONFIRM DISCREPANCIES WITH PROJECT ENGINEER.

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ATTENTION
LINE IS 2-INCHES
AT 24"x36" SIZE
IF NOT 2-INCHES,
SCALE DRAWING ACCORDINGLY



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25 EAST 300 NORTH
ST. CHARLES, ID 83272
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(800) 342-1585 (208) 342-1585 or 811

**BEAR LAKE PRIMITIVE CAMPGROUND
BEAR LAKE TWIN HOMES**
GENERAL SITE & UTILITY PLAN

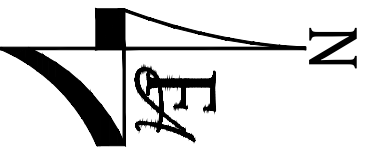
PROJECT NO: 14-24-0126	
SHEET ID: C102	
DATE: 01-2026	PAGE NO: 2

GRADING AND DRAINAGE CONSTRUCTION NOTES:

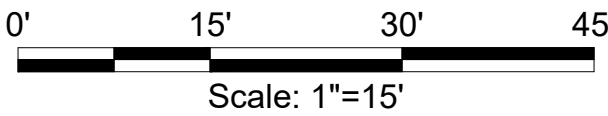
1. ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
3. NO CONSTRUCTION WILL BE PERFORMED WITHOUT THE PROPOSED CONSTRUCTION BASELINES AND LAYOUTS BEING STAKED IN THE FIELD AND THE SAME BEING APPROVED BY OWNER AND
4. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.

SITE RECLAMATION AND RESTORATION:

5. WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING SURFACES, AND PROVIDE VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
8. CONTRACTOR SHALL FINE GRADE THE SITE TO LINES, GRADES, AND ELEVATIONS SHOWN HEREON. WHERE A SPECIFIC LIMIT OF WORK LINE AND/OR FINISHED GRADE IS NOT OBVIOUS OR IMPLIED, CONTRACTOR SHALL BLEND GRADES AND MATERIALS AT A 12:1 SLOPE FROM TOP OF PAVEMENT TO NATURAL GRADE UNLESS OTHERWISE SHOWN HEREON TO MATCH AND MEET EXISTING CONDITIONS.
9. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS WITH 6-INCHES OF TOPSOIL MATERIAL AND RAKE AND WORK SUCH MATERIAL IN ORDER TO FORM A SMOOTH AND AESTHETICALLY PLEASING FINISHED GRADE FREE FROM ROUGHNESS, BUMPS, RIDGES OR IRREGULARITIES; UNLESS OTHERWISE NOTED.



GRAPHIC SCALE



LEGEND

TOC = TOP OF CONCRETE
TOG = TOP OF GRAVEL
TC/TG = TOP OF CONCRETE/TOP OF GRAVEL
CP = CENTER POINT



* NOTICE:

SURVEY PROVIDED BY ALLIANCE ENGINEERING DIFFERS FROM AS-BUILT DRAWINGS PROVIDED FOR EXISTING FACILITIES. GRADING FOR PROPOSED IMPROVEMENTS WAS DONE USING SURVEY PROVIDED. CONTRACTOR TO VERIFY SITE ELEVATIONS AND CONFIRM DISCREPANCIES WITH PROJECT ENGINEER.

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ATTENTION

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BEAR LAKE PRIMITIVE CAMPGROUND
BEAR LAKE TWIN HOMES

SITE GRADING PLAN

PROJECT NO:
14-24-0126

SHEET ID:
C103

DATE: 01-2026
PAGE NO: 3

GENERAL STRUCTURAL NOTES

GENERAL

1. Code: I.B.C. 2021.
2. Notes: Notes apply to all drawings unless noted otherwise.
3. Design Criteria:

Soil Bearing Pressure = 1500 psf – (Assumed)

Roof SNOW Load = 50 psf
Roof Dead Load = 15 psf
Floor Live Load = 40 psf
Floor Dead Load = SLAB
Attic Live Load = N/A psf
Attic Dead Load = N/A psf
Deck Live Load = N/A psf
Deck Dead Load = N/A psf
Seismic Design Cat. D
115 MPH Exp. C Wind

4. Coordination: Check with conditions at the job site and with all other subcontractors.
5. Datum: See PLAN.
6. Details: Details, sections, and notes as shown on the drawings are intended to be typical and shall apply to all similar situations elsewhere unless noted otherwise.

FOUNDATION

1. No soils report has been prepared. If a Soils Report is prepared, all recommendations in the Soils Report shall be followed.
2. Unless noted otherwise in a Soils Report, remove top 12" of soil including all vegetation and debris. Remove existing elements as required and replace voids and soft spots with compacted granular fill.
3. Unless noted otherwise in a Soils Report, all footings are to be placed on firm, undisturbed, natural soil or properly compacted granular fill unless noted otherwise in the project Soils Report. The natural undisturbed soil below all footings shall be proof rolled prior to placing concrete. Replace voids and soft spots with compacted granular fill. Clear excavations of debris and loose soil prior to placing concrete.
4. Compacted Granular Fill: Unless noted otherwise in a project Soils Report, Contractor shall be responsible for the selection of all fill material, and verification of adequate compaction. All fill shall be tested to ensure adequate compaction and proper gradation by a qualified materials testing agency. Compact all fill to 95% dry density minimum. All fill shall be placed and compacted in lift heights not to exceed 8".

5. Frost protection: All exterior footings shall be placed a minimum of 42" below finish grade.
6. Center all footings under walls, columns or grid lines unless noted otherwise on plans.

7. Contractor is responsible to verify natural undisturbed soil below all footing is adequate to support loading of 1500 psf with negligible settlement.

8. FOUNDATION DRAINAGE AND WATERPROOFING SYSTEMS SHALL BE SPECIFIED & DESIGNED BY OTHERS.

EPOXY

1. All epoxy shall be Hilti brand or equivalent. The following systems shall be used:
- a. Hollow or Grouted CMU – Hilti HY-270 with screen tubes.
b. Concrete – Hilti RE-500V3
2. Install all epoxied anchors per manufacturer's instructions and recommendations.
3. All holes shall be sized properly and cleaned thoroughly prior to placement of epoxy adhesive.

REINFORCING STEEL

1. Grade: ASTM A615, Grade 60.
2. Dowel and lap lengths: For concrete work provide 48 bar diameters for dowel embedment and splice lap lengths, and 64 bar diameters for masonry work. Do not splice vertical reinforcing bars in retaining walls unless noted otherwise. Minimum splice length is 15 inches.
3. Detailing and fabrication: Reference "American Concrete Institute" (ACI 318-19).
4. Field bending: Reinforcing steel shall not be bent or straightened in a manner injurious to the concrete or steel. Bars larger than #5 shall not be field bent.
5. Splice locations: In slabs, beams and girders, reinforcing steel shall not be spliced at zones of maximum tensile stress, unless noted otherwise on the drawings.
6. Embedments, dowels, & all reinforcement shall be securely tied to formwork or adjacent reinforcement prior to concrete or grout placement using tie wire or positioners. "Wet-sticking" is not permitted.

CARPENTRY NOTES:

1. Sawn Lumber Grade: Doug-Fir #2 or better, EXCEPT WHERE NOTED OTHERWISE
LVL Grade: Boise-Cascade – VersoLam 2.0 2800 or better 1-3/4" THICK.
LVL STUD GRADE: Boise-Cascade VersoStud 1.7 2400 or better.
2. Openings in Floor Framing: Provide double header and trimmer joists at openings where joists are cut. Provide joist hangers where joists frame into headers and headers frame into trimmers.
3. Openings in Walls: Provide headers as indicated on plans. All headers in bearing walls shall be supported by a single 2x trimmer and double king studs, unless larger columns are indicated on the drawings.
4. General Framing and Carpentry: Connect all items as per IBC Table 2304.9.1, "Fastening Schedule", unless noted otherwise.
5. Framing connections shown on drawings refer to Simpson Strong-Tie Connectors or I.C.C. approved equal. All framing connections not shown or otherwise indicated on the drawings shall be connected in a manner similar to the connections shown in the drawings or with approved Simpson Strong-Tie connectors.
6. All wood framing shall conform to the "Conventional Light-Frame Construction" provisions in Section 2308 of the I.B.C. 2021 unless noted otherwise.
7. Install triple 2x, nail laminated studs below all girder truss bearing points, unless noted otherwise on the drawings.

DEFERRED DESIGNS & SUBMITTALS:

1. The following designs shall be provided by the applicable subcontractor, and submitted for approval:
- a. Seismic Bracing of Electrical & Mechanical Equipment
b. Premanufactured Wood Trusses
2. Designs for the above items shall be prepared and stamped by a licensed Professional Engineer in the State of Utah.
3. Designs and calculations for the above listed items shall be specific to the project, show specific locations, types of bracing required, embed locations, and loading used for the design.
4. Designs shall be approved by the Building Official prior to installation.

CONCRETE:

1. Concrete Density: Normal Weight Concrete approximately 145 to 150 pounds per cubic foot.
2. Strength: Minimum ultimate 28-day compressive strength:

Footings 3000 psi (2500 used for design)
Slabs on grade 4500 psi
Walls 4000 psi (2500 used for design)
SUSPENDED SLABS 5000 psi
All other site cast concrete 4500 psi

6%-7% air entrainment is required in all exterior flatwork.

3. Construction Joints: Continue vertical and horizontal reinforcing through all construction joints.
4. Slabs: Slabs are to be placed in as large of sections as possible. Where construction joints are necessary, provide bulkhead shear keyways and reinforcing dowels as required to maintain full section capacity. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by saw cut or tooled joints a depth of 1/4 the thickness of the slab. Contractor is responsible for exact locations and spacing of all control & construction joints.
5. Form Work: Form work shall comply with ACI Standards Publication 347 and Project Specifications.
6. Wall reinforcing: Unless noted otherwise on the drawings, reinforce all concrete wall as follows:

THICKNESS HORIZONTAL VERTICAL
See schedule on S1.0

7. Provide corner bars at intersecting wall corners using the same size and spacing as horizontal wall reinforcing. Dowel vertical reinforcing to the footing or structure below with the same size and spacing as wall, column, or pier reinforcing above. Footing dowels shall terminate with a 90 degree standard hook. Openings: Around all sides of openings with a size greater than 12" provide (2) #5 bars (unless noted otherwise) and extend 24" beyond the corners of the opening.
9. Concrete protection for reinforcing steel: Provide concrete cover equal to the bar diameter but not less than:
- See schedule on sheet S0.1
10. Slabs on grade: Any reinforcing steel shall be adequately supported on precast concrete units or stand chairs, to keep the reinforcing the minimum height specified or indicated above the grade. Lifting the reinforcing off the grade during placement will not be permitted.
11. Curing: All concrete is to be cured and protected in strict accordance with ACI Cold Weather Curing Procedures. Tenting of the concrete and added heat may be required for certain temperature levels. If heat is added, proper venting shall be provided to eliminate the harmful effects of carbon dioxide exposed to fresh concrete.

SPECIAL INSTRUCTION

1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specification for additional requirements in each section. Notes and details on the drawings shall take precedence over General Structural Notes and typical details.
2. All omissions or conflicts between the various elements of the working drawings and/or specifications shall be brought to the attention of the Architect and Structural Engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Architect without additional cost to the owner.
3. Notification of Engineer: The Engineer shall be notified twenty-four hours prior to:
- a. Completion of footing excavation
b. Placing concrete in any footing.
c. Closing any wall forms.
d. Completing diaphragm fastening.
e. Grouting of any masonry
f. Completion of structural welding
4. Shoring and Bracing Requirements:
- a. Roof Structures – The General Contractor is responsible for the method and sequence of all structural erection. He shall provide temporary shoring and bracing as his method of erection requires to provide adequate vertical and lateral support. Shoring and bracing shall remain in place as the chosen method requires until all permanent members are in place and all final connections are completed, including all roof attachments. The building shall not be considered stable until all connections are complete.

- b. Walls above grade shall be braced until the structural system is complete. Walls shall not be considered to be self supporting.

5. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the contractor of the responsibility of completing the project according to the contract documents. The general contractor shall review and mark all shop drawings prior to submitting them to the Architect for his review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.
6. Project Coordination: It shall be the responsibility of the general contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the general contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the general contractor. It is the contractor's obligation to provide all items necessary for his chosen procedure.

7. Observation visits to the site by the Engineer's field representatives shall not be construed as inspection or approval of construction.
8. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, contractor shall notify Architect/Engineer prior to fabrication or construction within that area.
9. The structural drawings, plans, schedules, notes and details shall not be reproduced, or copied, in whole or in part by the contractor or his subcontractors for preparation of shop drawings or other submittals.

CONCRETE PROTECTION FOR REINFORCEMENT		
APPLICATION		MINIMUM CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	1. ALL APPLICATIONS EXCEPT SLABS ON GRADE	3"
	2. SLABS ON GRADE – CLEAR DISTANCE FROM TOP OF SLAB	1"
CONCRETE EXPOSED TO EARTH OR WEATHER	1. NO. 6 BARS AND LARGER	2"
	2. NO. 5 BARS AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND	1. SLABS, WALLS, JOISTS	3/4"
	2. BEAM OR COLUMN TIES, STIRRUPS, OR PRIMARY REINFORCEMENT	1 1/2"
NOTES	1. TOLERANCE FOR CONCRETE COVER AND REINFORCEMENT LOCATION IS ±3/8"	

FRAMING NAILING SCHEDULE			
CONNECTION	NAILING	CONNECTION	NAILING
TOP PLATE TO STUD, END NAIL	2x4 (2)– 16d 2x6 (3)– 16d 1 3/4" x 5 1/2" LVL (3)– 16d 1 3/4" x 7 1/4" LVL (4)– 16d 1 3/4" x 9 1/4" LVL (5)– 16d 1 3/4" x 11 7/8" LVL (6)– 16d	TOP PLATE LAPS (4'–0" MINIMUM)	16d AT 6" O.C.
		BUILT-UP HEADERS AND BEAMS	16d AT 16" O.C. ALONG TOP AND BOTTOM EDGE
STUD TO SILL PLATE, END NAIL	2x4 (2)– 16d 2x6 (3)– 16d 1 3/4" x 5 1/2" LVL (3)– 16d 1 3/4" x 7 1/4" LVL (4)– 16d 1 3/4" x 9 1/4" LVL (5)– 16d 1 3/4" x 11 7/8" LVL (6)– 16d	BUILT-UP COLUMNS BELOW BEAMS, FACE NAIL	16d AT 16" O.C. – EACH FACE
		BUILT-UP CORNER STUDS (3 STUDS MINIMUM)	16d AT 24" O.C.
DOUBLE SILL PLATES, FACE NAIL (STAGGER)	10d AT 12" O.C.	BACKING AND BLOCKING AT TRUSSES AND 2x FRAMING, END NAIL OR TOE NAIL	(2)– 16d EACH END
DOUBLE STUDS, FACE NAIL (STAGGER)	10d AT 12" O.C. – EACH FACE	BACKING AND BLOCKING AT I-JOIST FRAMING	SIMPSON Z2 OR EQUAL AT EACH END [W/ (4)– 10d x 1 1/2" NAILS]
DOUBLE TOP PLATES, FACE NAIL	16d AT 24" O.C.		
TOP PLATES AT WALL INTERSECTIONS, FACE NAIL	(2)– 16d		

TABLES OF EQUIVALENT FASTENERS, STAPLES, NAILS, AND T-NAILS. (VALID FOR LATERAL LOAD ONLY)					
COMMON NAIL SPACING	GAUGE	EQUIV. SPACING OF APPR'D FASTENER			
		STAPLES	NAILS	T-NAILS	
6d A	16d	1"	1"	1"	113
	16d	1"	1"	1"	131
	4"	3 1/2"	4"	5"	4"
	6"	5"	6"	7"	7 1/2"
	8"	6 1/2"	8"	9 1/2"	8"
8d AT	10"	8 1/2"	10"	12"	10"
	12"	10"	12"	14 1/2"	12"
	4"	2 1/2"	3 1/2"	4"	3 1/2"
	6"	4"	5"	6"	5"
	8"	5 1/2"	6 1/2"	8"	6 1/2"
10d AT	10"	6 1/2"	8"	10"	8"
	12"	8"	10"	12"	9 1/2"
	4"	2"	2 1/2"	3"	2 1/2"
	6"	3 1/2"	4"	5"	3 1/2"
	8"	4 1/2"	5 1/2"	6 1/2"	5 1/2"
	10"	5 1/2"	7"	8"	6 1/2"
	12"	6 1/2"	8"	9 1/2"	8"
NOTE: PENETRATION IS THE DEPTH OF EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REQUIRED TO ATTAIN ITS FULL CAPACITY (SHEAR VALUE) FOR LATERAL LOADING.					



DATE: FEBRUARY 7, 2026

PROJECT TITLE: IDAHO STATE PARK HOUSEING

SHEET TITLE: GENERAL STRUCTURAL NOTES

PROJECT NUMBER:

REVISIONS:

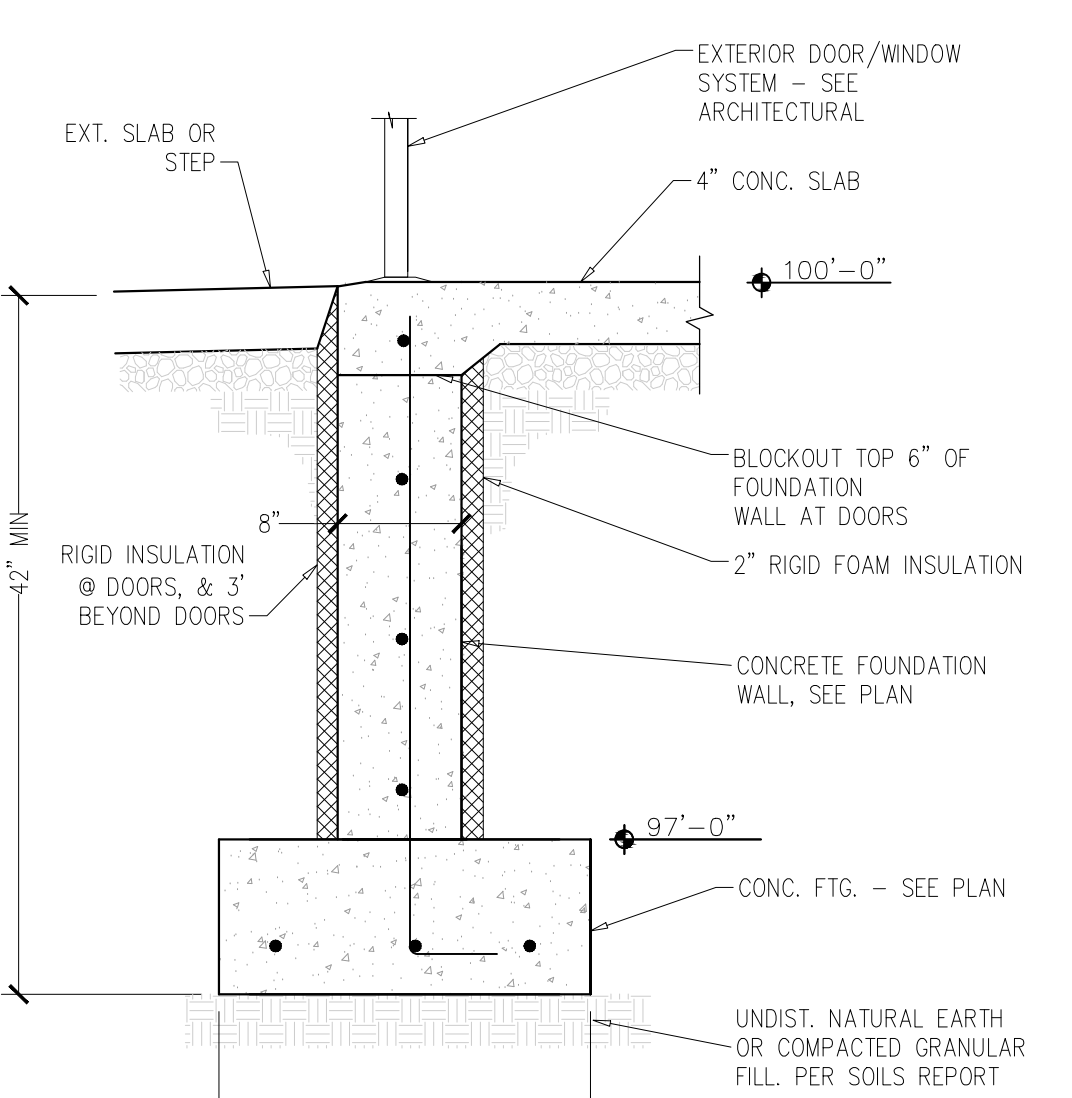
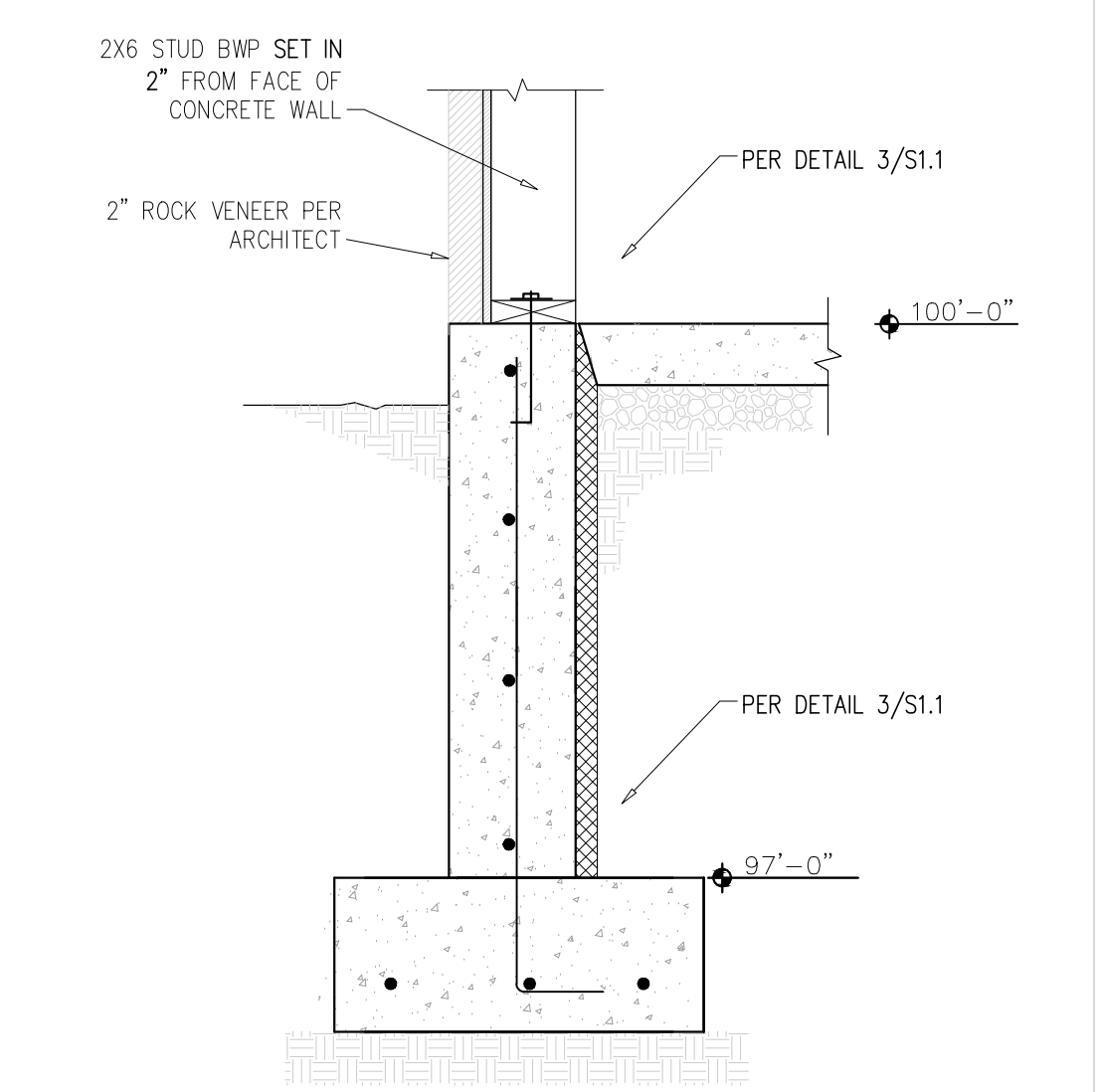
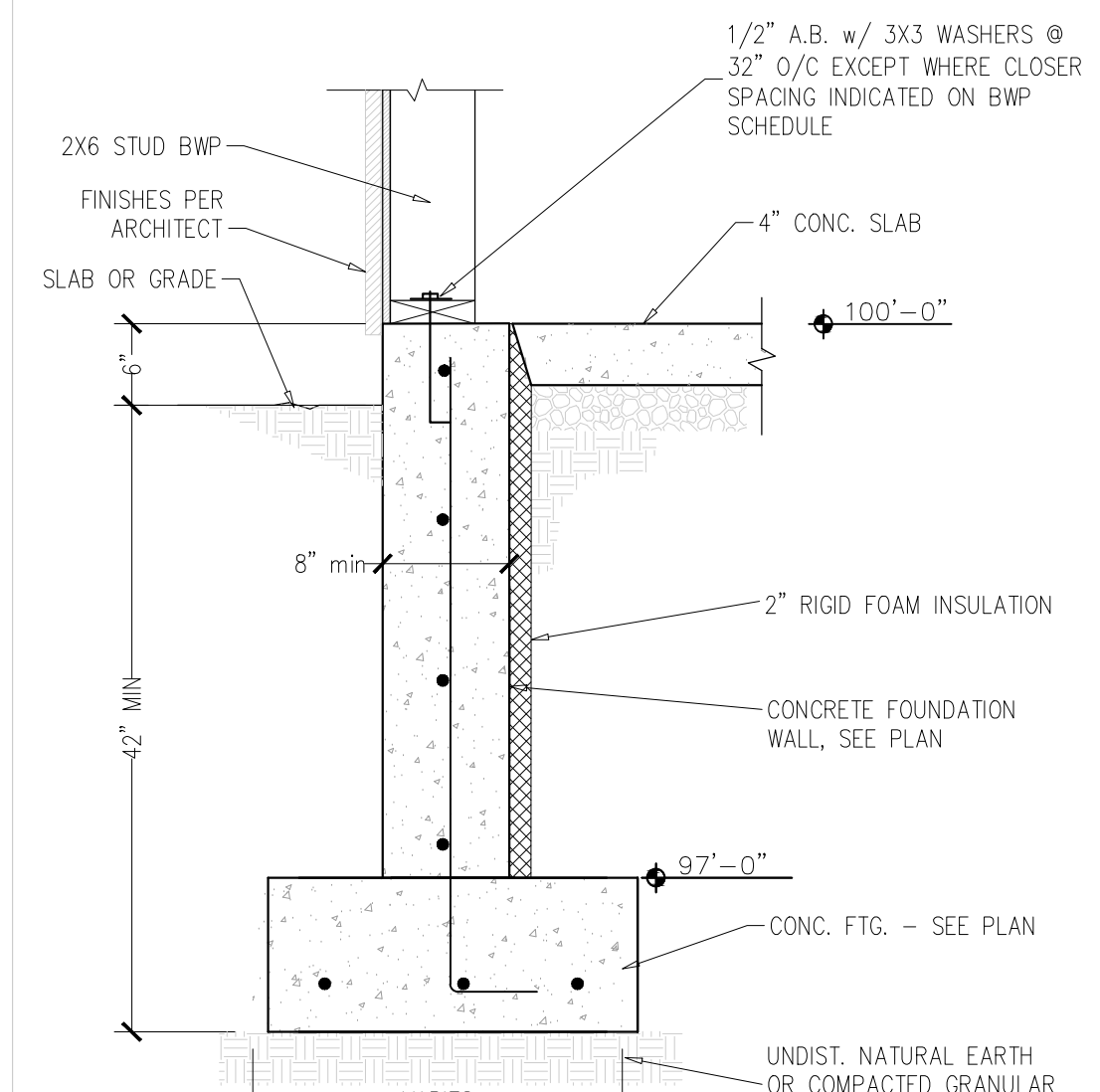
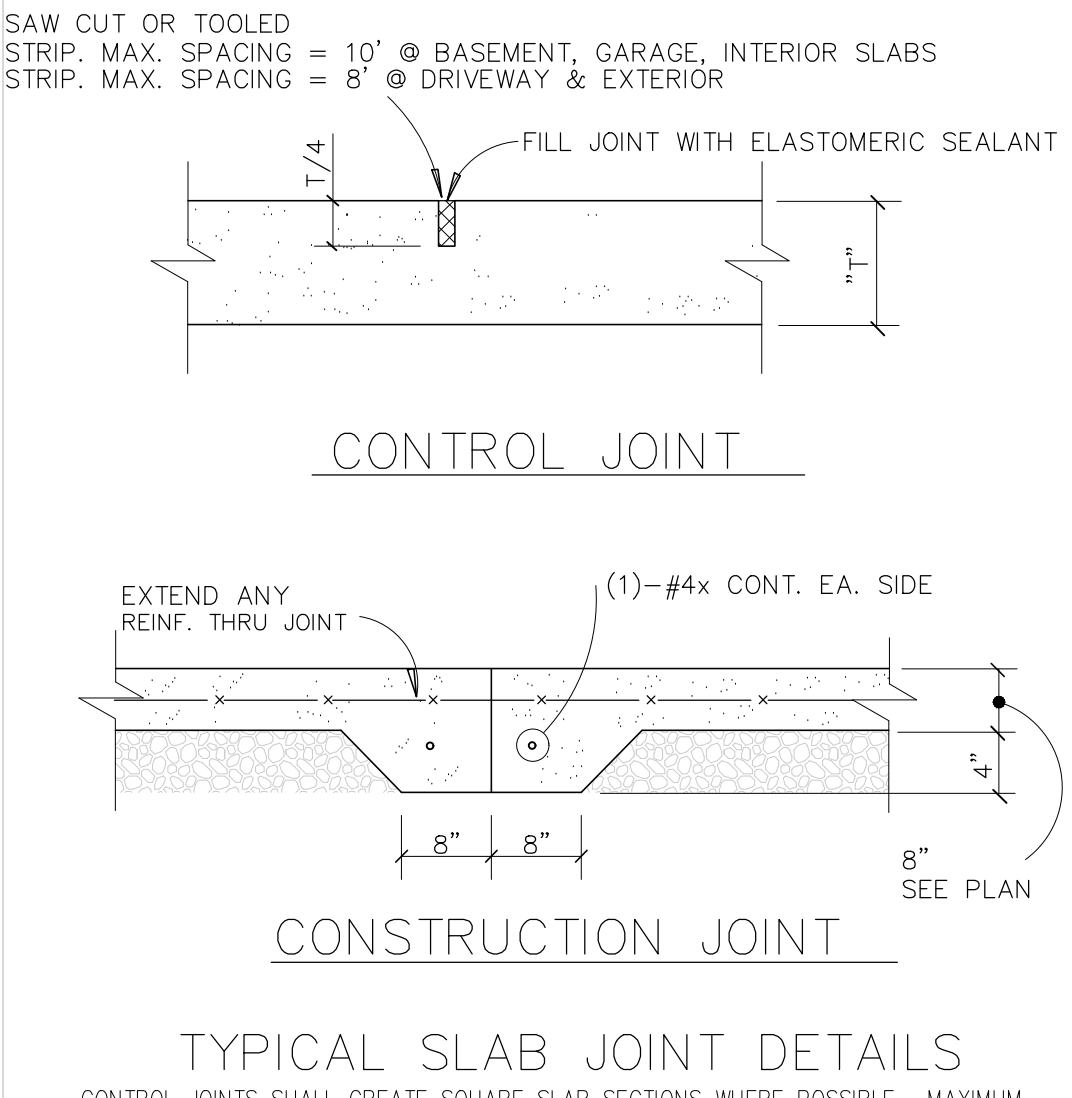
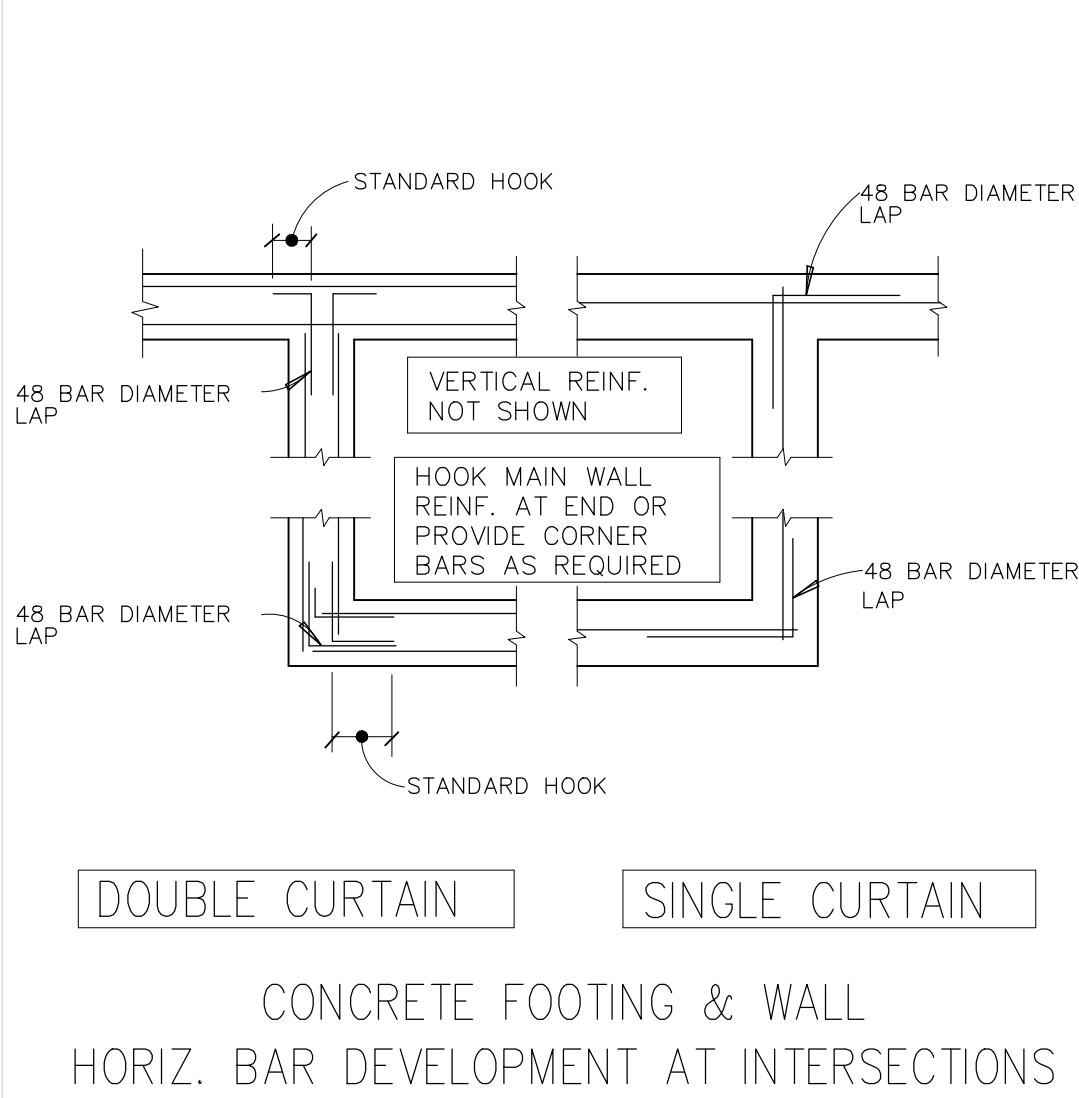
SHEET NUMBER:

S0.1



1. COORDINATE & VERIFY THIS DRAWING WITH EXISTING SITE CONDITIONS, ARCHITECTURAL, SITE, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS PRIOR TO START OF CONSTRUCTION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON THIS DRAWING. CROSS COORDINATE ALL DIMENSIONS.
3. REFER TO GENERAL STRUCTURAL NOTES & THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. FIELD VERIFY ALL TOP OF FOOTING ELEVATIONS WILL ACHIEVE 42" OF FROST PROTECTION FROM THE FINISHED GRADE, PRIOR TO COMPLETION OF EXCAVATION.
5. REFER TO DETAIL (2/S1.1) FOR TYPICAL SLAB CONTROL JOINT, AND CONSTRUCTION JOINT DETAIL. JOINT LOCATIONS & SPACING SHALL BE DETERMINED BY CONTRACTOR. SEE DETAIL (1/S1.1) FOR TYPICAL HORIZONTAL BAR LAPS AT ALL WALL AND FOOTING CORNERS AND INTERSECTIONS.
6. REFER TO ARCHITECT FOR VAPOR BARRIER REQUIREMENTS BELOW SLABS.
7.  INDICATES APPROXIMATE FOOTING STEP LOCATION. STEP FOOTING
8.  INDICATES APPROXIMATE TOP OF WALL STEP LOCATION. COORDINATE WITH ARCHITECTURAL PLANS AND DETAILS.

S1.0



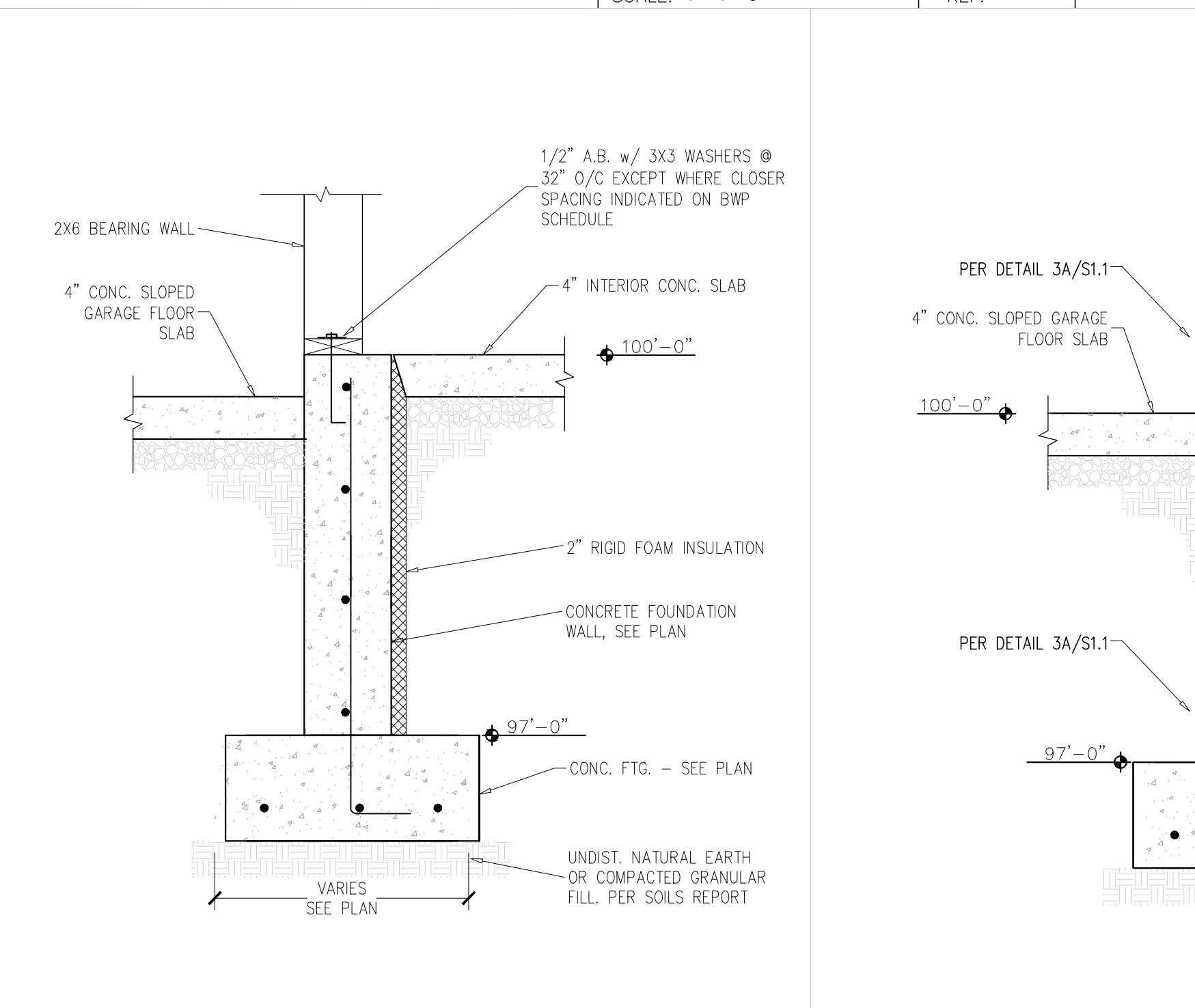
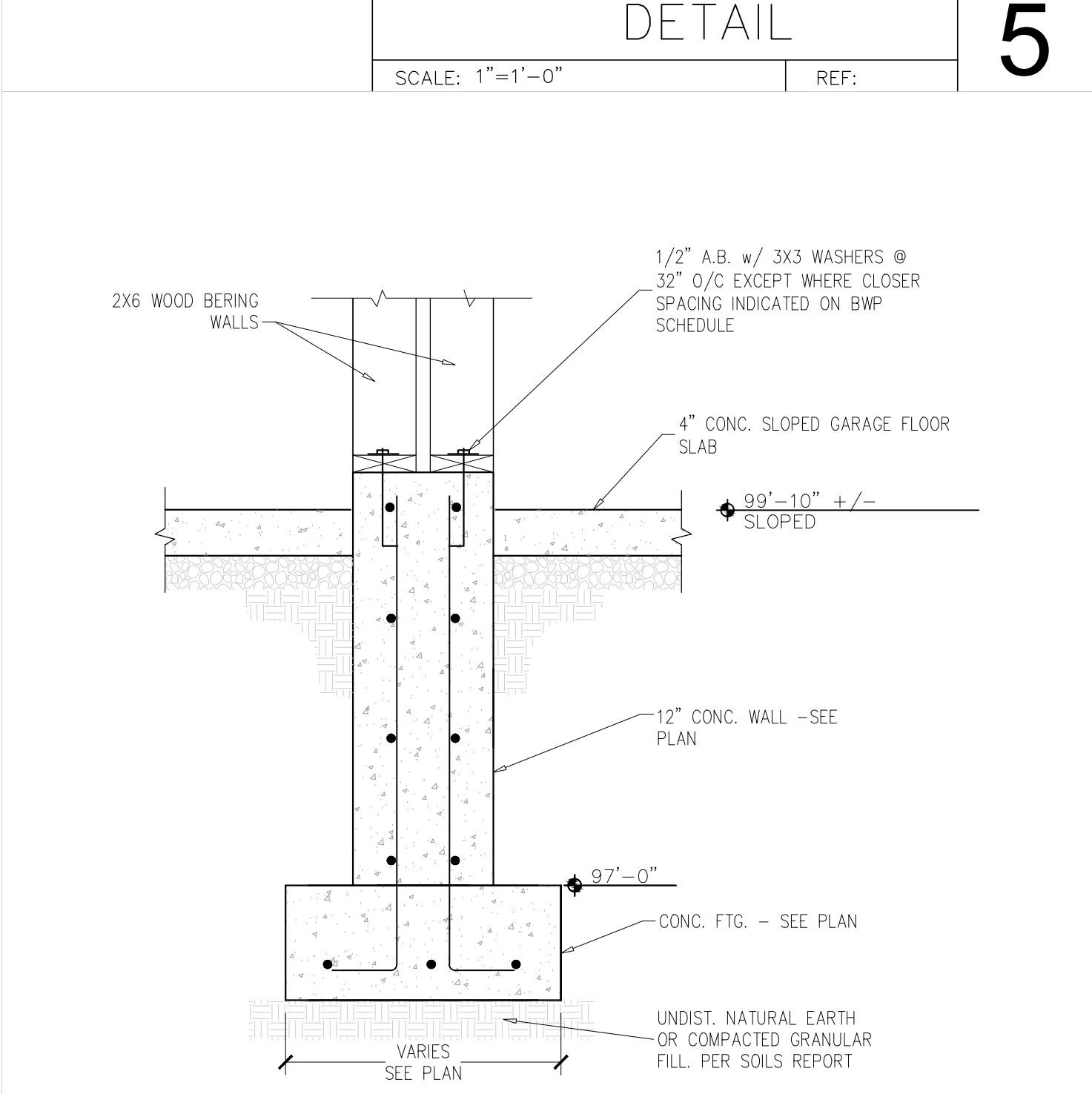
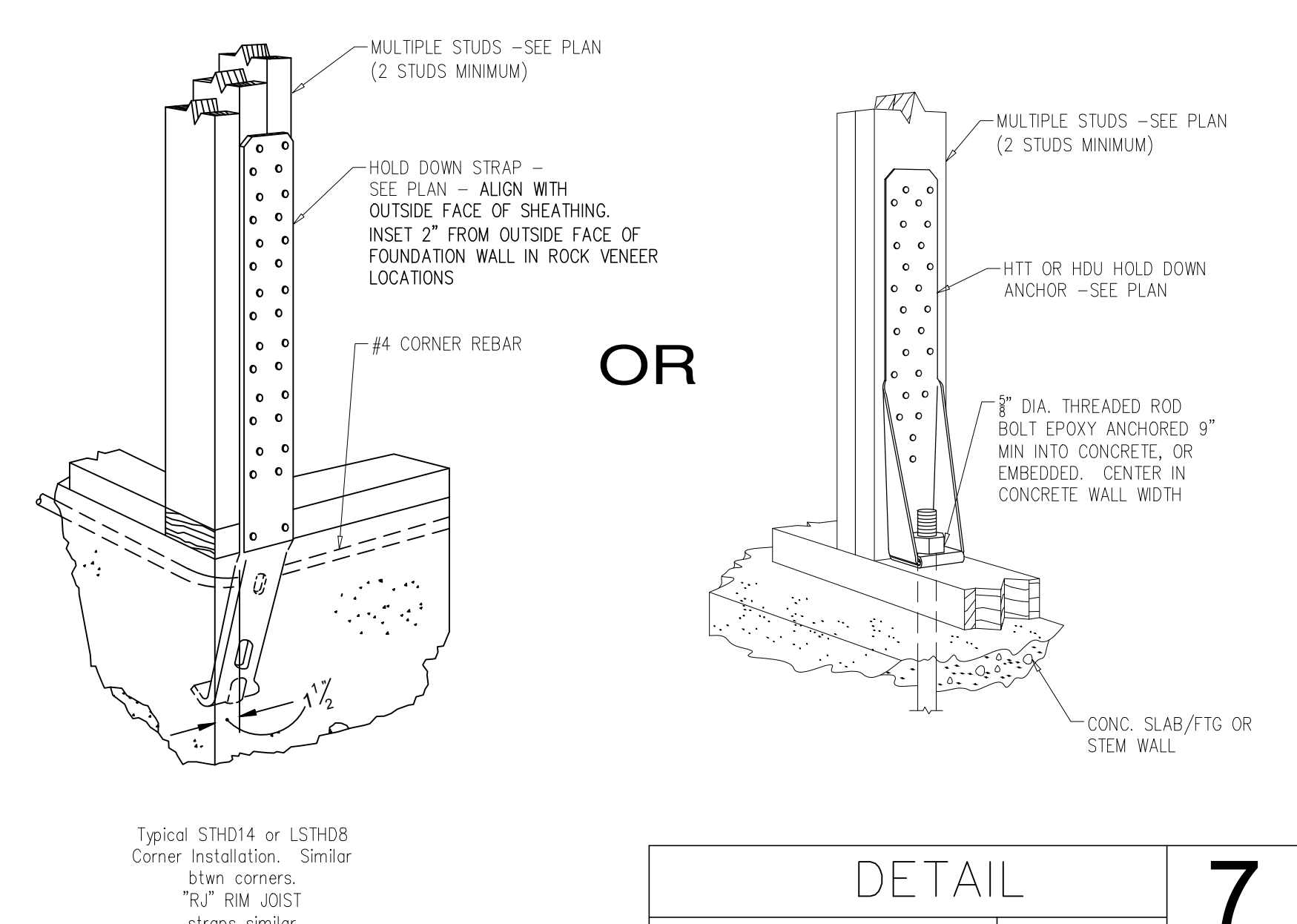
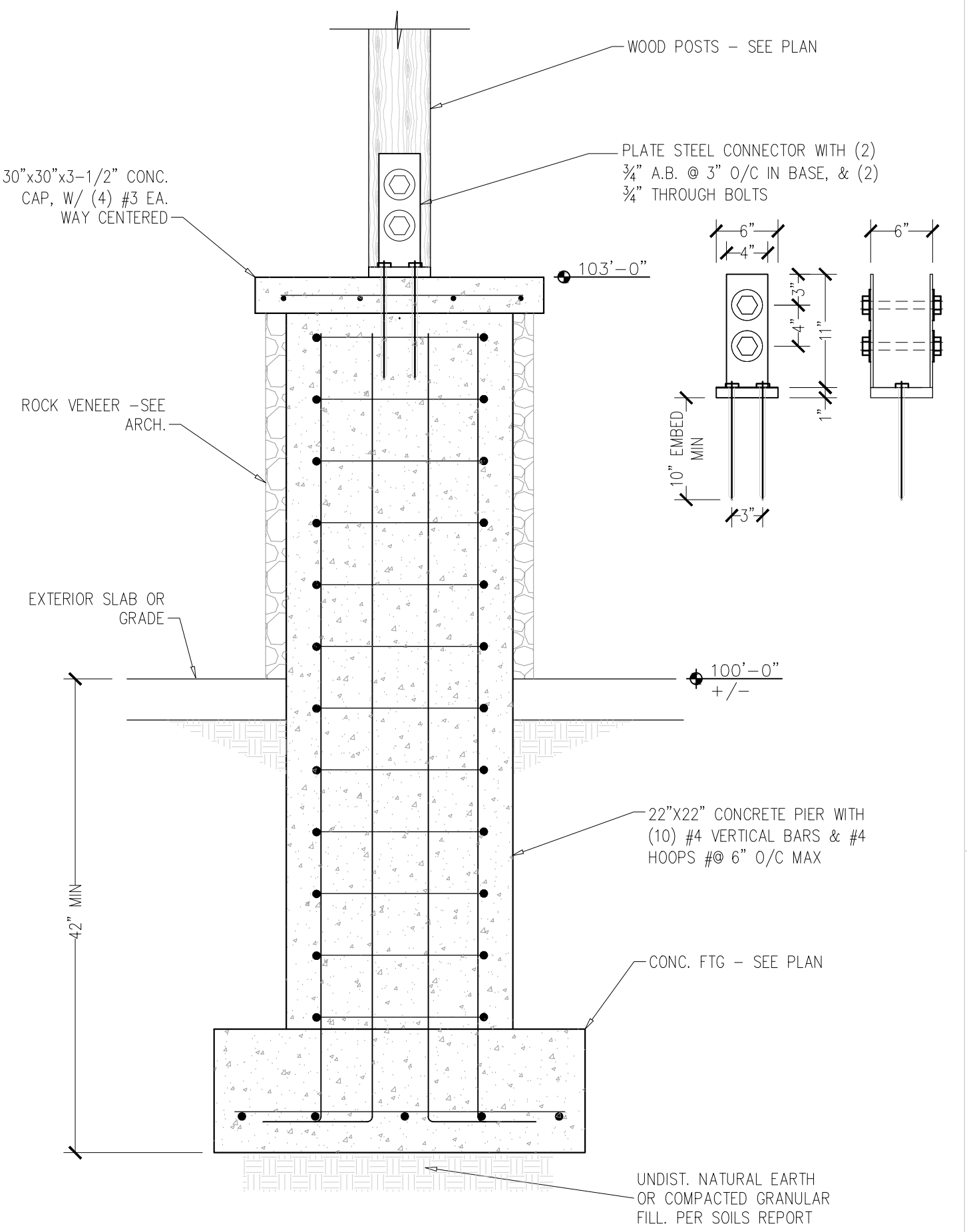
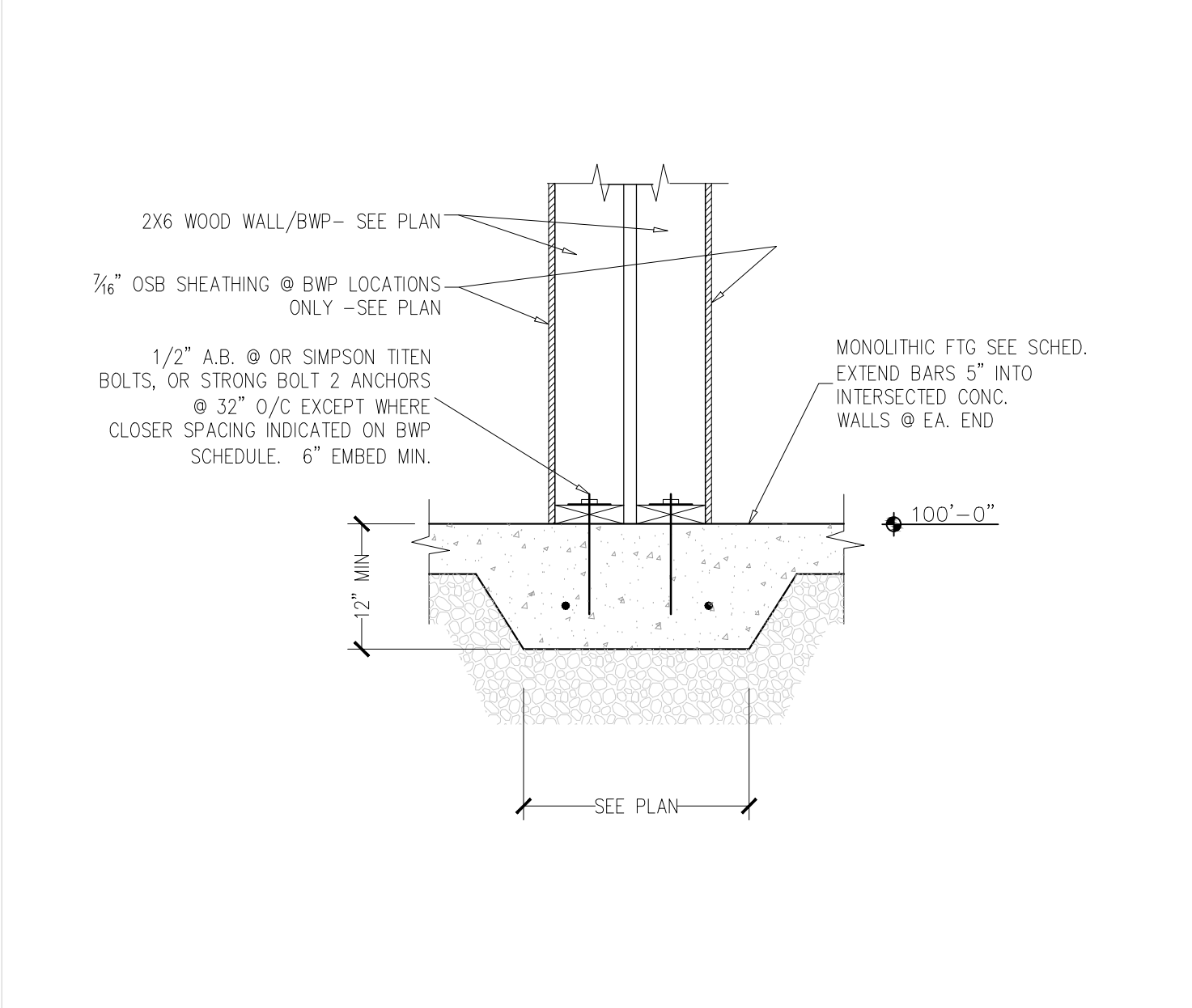
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DETAIL 2
SCALE: 1"=1'-0" REF:

DETAIL 3
SCALE: 1"=1'-0" REF:

DETAIL 3A
SCALE: 1"=1'-0" REF:

DETAIL 4
SCALE: 1"=1'-0" REF:



DETAIL 8
SCALE: 1"=1'-0" REF:

DETAIL 9
SCALE: 1"=1'-0" REF:

DETAIL 10
SCALE: 1"=1'-0" REF:



DATE: FEBRUARY 7, 2026

PROJECT TITLE: IDAHO STATE PARK HOUSEING

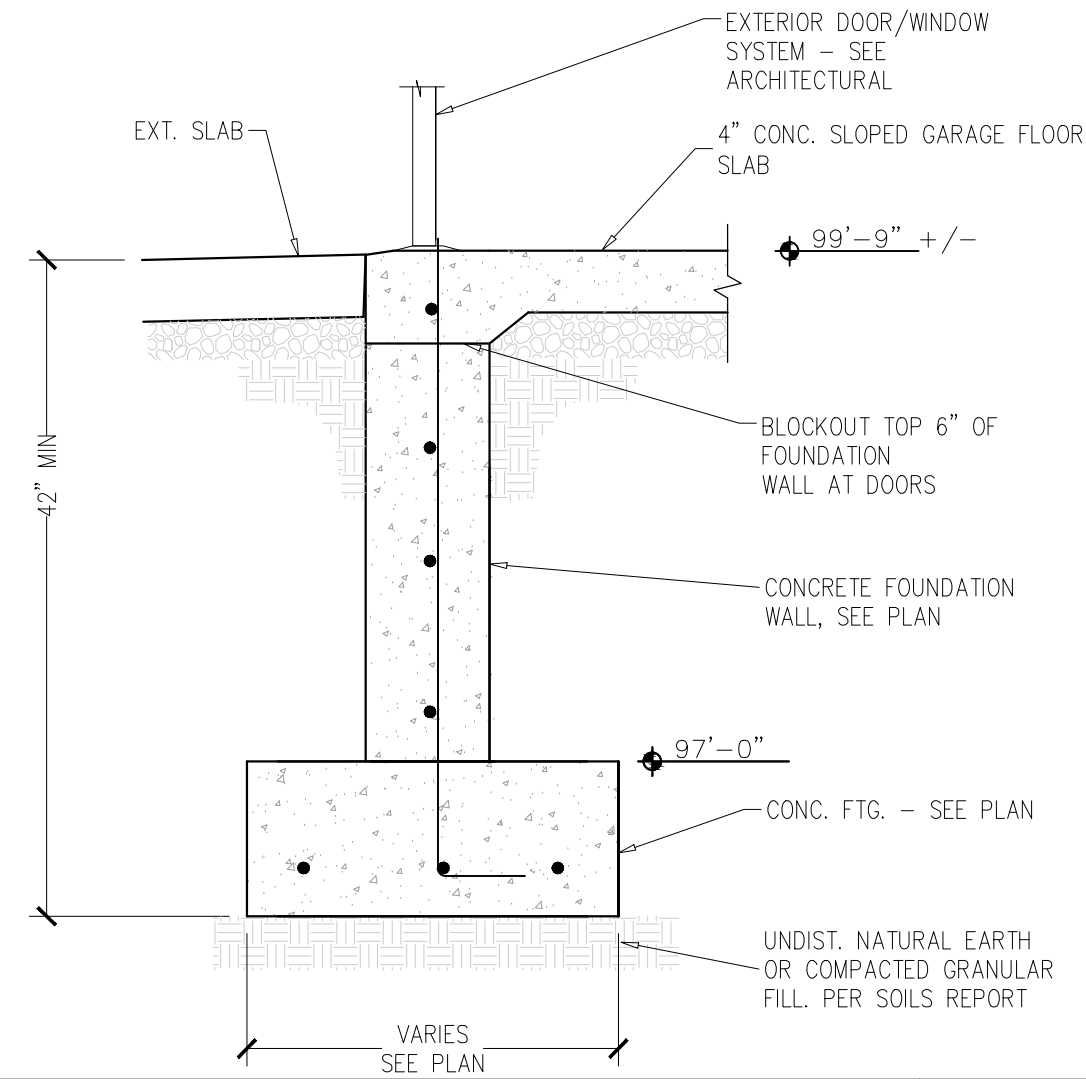
SHEET TITLE: FOUNDATION DETAILS

PROJECT NUMBER:

REVISIONS:

SHEET NUMBER:

S1.1



DETAIL

SCALE: 1"=1'-0"

REF:

11



DATE:
FEBRUARY 7, 2026

PROJECT TITLE:

IDAHO STATE PARK HOUSEING

SHEET TITLE:

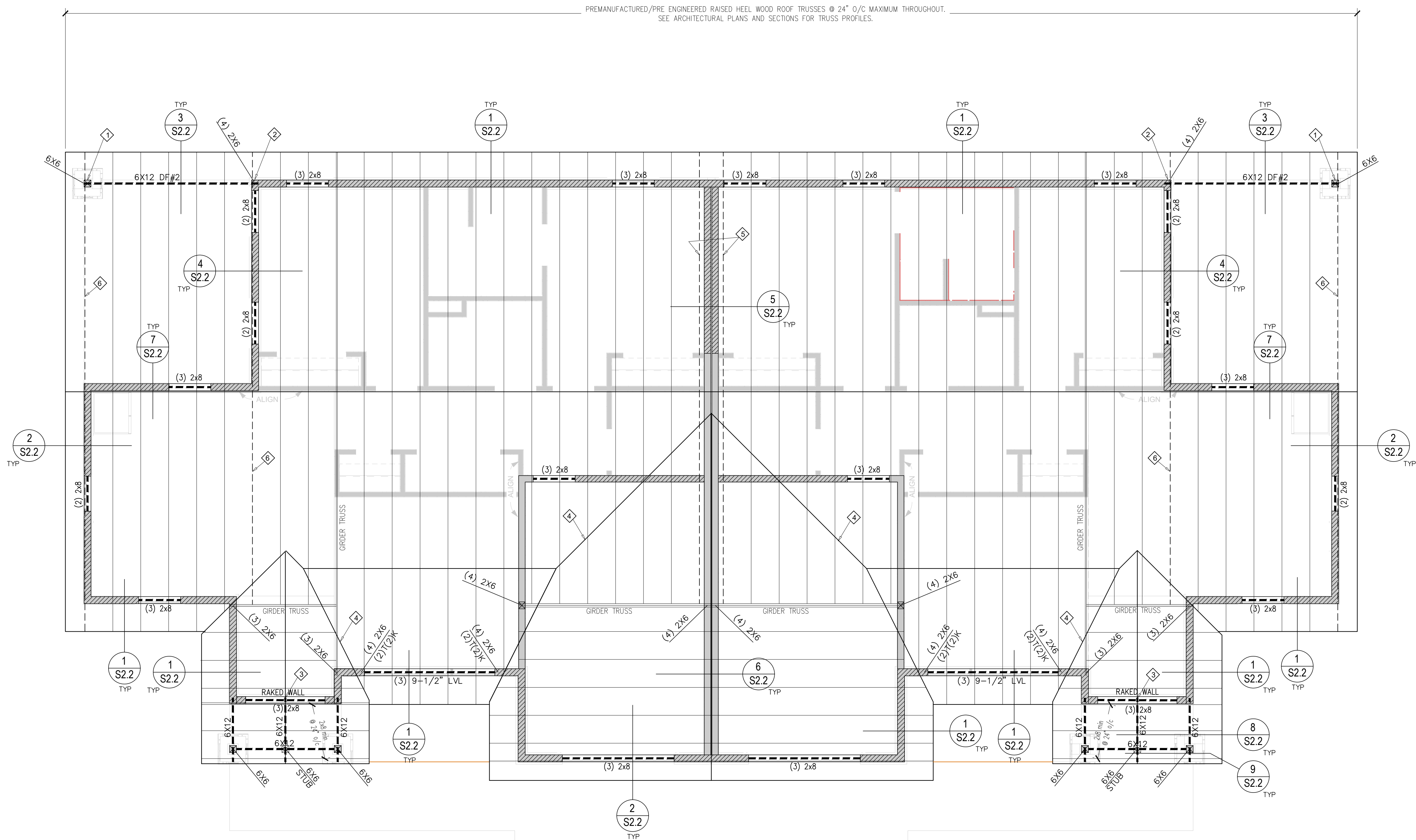
FOUNDATION DETAILS

PROJECT NUMBER:

REVISIONS:

SHEET NUMBER:

S1.2



1 ROOF FRAMING PLAN

1/4" = 1'-0"

KEYED NOTES:

- BEAR BEAM ON TOP OF POST. SECURE WITH SIMPSON "ECC66" CONNECTOR, OR 1/4" CUSTOM PLATE STEEL CONNECTOR WITH SAME BOLTS AND DIMENSIONS AS ECC66.
- BEAR END OF BEAM ON TOP OF WALL/COLUMN. INSTALL VERTICAL SIMPSON MSTD4 STRAP ON OUTSIDE FACE BTWN BEAM AND WALL POST FOR UPLIFT.
- INSTALL (6) 2X6 STUB COLUMN BELOW BEAM END IN RAKED WALL. (4) TRIMMER STUDS BELOW BEAM, WITH (1) KING STUD ON EACH SIDE. SECURE KING STUDS TO BEAM WITH (8) 16d EA. SIDE.
- INSTALL 8d NAILS @ 6" O/C ALONG BOTH SIDES OF ALL ROOF RIDGES & VALLEYS. BACK WITH CONT SOLID 2X RUNNER OR 2X BLOCKING BTWN TRUSSES/JOISTS. FULLY SHEATH UNDERBUILT AREAS OF OVERBUILDS. ALL OVERBUILT AREAS SHALL BE FRAMED WITH PREMANUFACTURED OVERBUILD TRUSSES (VALLEY TRUSSES) @ 24" O/C MAX, FASTENED ALONG BOTTOM CHORDS WITH SIMPSON VTRC @ 48" O/C MAX.
- DASHED TRUSSES INDICATE DRAG STRUT TRUSSES ON EACH SIDE OF CENTER BRACED WALL PANELS. TRUSS MANUFACTURER SHALL DESIGN TO ACCOMMODATE 3 KIP AXIAL DRAG LOAD IN ADDITION TO THE TYPICAL GRAVITY LOADS.
- DASHED TRUSSES INDICATE DRAG STRUT TRUSS ON TOP OF BRACED WALL PANEL BEYOND. TRUSS MANUFACTURER SHALL DESIGN TO ACCOMMODATE 3 KIP AXIAL DRAG LOAD IN ADDITION TO THE TYPICAL GRAVITY LOADS.

PLAN NOTES:

- COORDINATE & VERIFY THIS DRAWING WITH ELECTRICAL, MECHANICAL, ARCHITECTURAL, & TRUSS MANUFACTURER'S DRAWINGS PRIOR TO START OF CONSTRUCTION.
- APPLY DETAILS TO ALL APPLICABLE LOCATIONS.
- SEE SHEET S2.1 FOR BRACED WALL PANEL DESIGNATIONS AND BRACED WALL PANEL SCHEDULE.
- ALL ROOF TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER. ALL TRUSS TO TRUSS CONNECTIONS SHALL ALSO BE DESIGNED AND SPECIFIED BY THE TRUSS MANUFACTURER.
- ROOF SHEATHING: ALL ROOF SHEATHING SHALL BE 5/8" RATED OSB MINIMUM. ROOF SHEATHING SHALL BE NAILED WITH 8d NAILS @ 6" o/c ALONG ALL SUPPORTED EDGES, AND 12" o/c IN THE FIELD. SPECIAL NAILING SHALL BE APPLIED INTO TRUSSES AND TRUSS BLOCKING NEAR ALL PERIMETER WALLS AS INDICATED IN THE FRAMING DETAILS.
- ALL EXTERIOR WALLS NOT LABELED AS BRACED WALL PANELS SHALL BE SHEATHED AND NAILED PER BWP-1 ON THE BRACED WALL PANEL SCHEDULE. EXTERIOR BEARING WALLS SHALL BE 2X6 AT 16" O/C, INTERIOR BEARING WALLS SHALL BE 2X4 OR 2X6 AT 16" O/C, EXCEPT AT 12' TALL WALLS OR TALLER USE 2X6 @ 16" O/C.



DATE:
FEBRUARY 7, 2026

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IDAHO STATE PARK HOUSEING

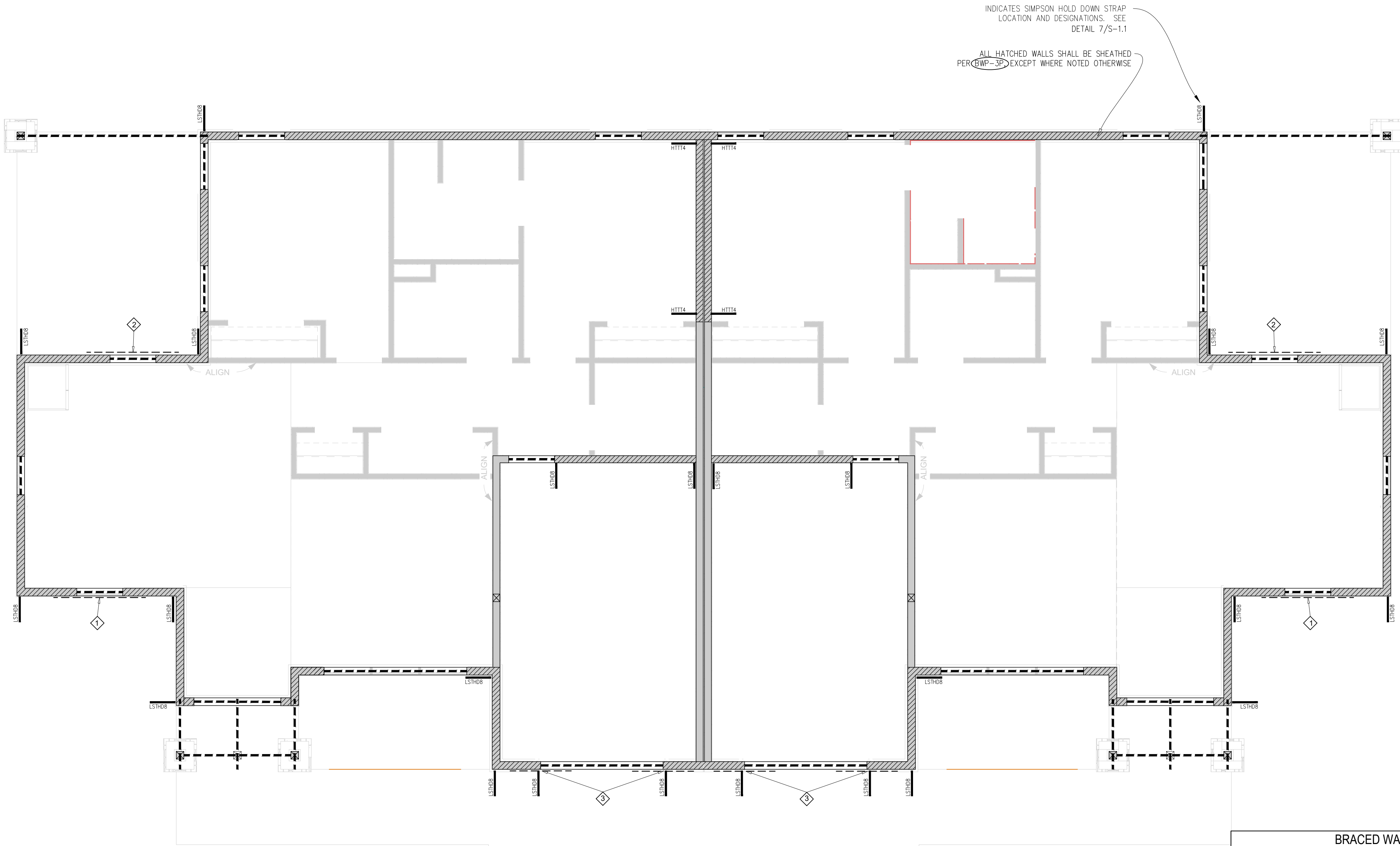
SHEET TITLE:
ROOF FRAMING PLAN

PROJECT NUMBER:

REVISIONS:

SHEET NUMBER:

S2.0



1 BRACED WALL PANEL PLAN

1/4" = 1'-0"

PLAN NOTES:

- COORDINATE & VERIFY THIS DRAWING WITH ELECTRICAL, MECHANICAL, ARCHITECTURAL, TRUSS MANUFACTURER'S, & ALL OTHER STRUCTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- APPLY DETAILS TO ALL APPLICABLE LOCATIONS.
- BWP-3P** DESIGNATES BRACED WALL PANEL TYPE. SEE BRACED WALL PANEL SCHEDULE ON SHEET S2.1. INSTALL SPECIFIED HOLD DOWN ANCHORS AT EACH END OF EACH BRACED WALL PANEL.

KEYED NOTES:

- DASHED LINE INDICATES 72" LONG CS14 STRAPS PLACED HORIZONTALLY ON OUTSIDE FACE OF WALL SHEATHING, CENTERED ON TOP & BOTTOM EDGES OF WINDOW OPENING. BACK WITH DBL 2X6 BLOCKING BTWN WALL STUDS AT ENDS. FILL EVERY OTHER NAIL HOLE.
- DASHED LINE INDICATES 72" LONG CS14 STRAPS PLACED HORIZONTALLY ON OUTSIDE FACE OF WALL SHEATHING, CENTERED ON TOP EDGE OF DOOR OPENING. BACK WITH DBL 2X6 BLOCKING BTWN WALL STUDS AT ENDS. FILL EVERY OTHER NAIL HOLE.
- DASHED LINE INDICATES 48" LONG CS14 STRAPS PLACED HORIZONTALLY ON OUTSIDE FACE OF WALL SHEATHING, CENTERED ON TOP CORNER/EDGE OF DOOR OPENING. BACK WITH DBL 2X6 BLOCKING BTWN WALL STUDS AT ENDS. FILL EVERY OTHER NAIL HOLE.

BRACED WALL PANEL SCHEDULE

MARK	WALL FRAMING		END STUDS OR POST	WALL ANCHORAGE		WALL SHEATHING	EDGE NAILING		FIELD NAILING		REMARKS		
	STUDS	SPACING		BOTTOM PLATE TOP PLATE	END STUDS OR POST		BOTTOM ANCHORAGE	HOLD DOWN	SIZE	SPACING		SIZE	SPACING
BWP-1	2x	16"	2x	(2) 2x	(2) 2x	(1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	NONE	7/16" OSB	8d	6"	8d	12"	-
BWP-2	*	*	*	(2) 2x	(2) 2x	(1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	M18x48 STUDS 1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	*	*	4"	*	*	-
BWP-2P	*	*	*	(2) 2x	(2) 2x	(1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	M18x48 STUDS 1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	*	*	4"	*	*	PERF. BWP FULLY SHEATH BOTH SIDES
BWP-2B	*	*	*	(2) 2x	(2) 2x	(1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	M18x48 STUDS 1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	*	*	4"	*	*	PERF. BWP FULLY SHEATH BOTH SIDES
BWP-3	*	*	*	(2) 2x	(2) 2x	(1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	M18x48 STUDS 1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	*	*	4"	*	*	-
BWP-3P	*	*	*	(2) 2x	(2) 2x	(1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	M18x48 STUDS 1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	*	*	4"	*	*	PERF. BWP FULLY SHEATH BOTH SIDES
BWP-4	*	*	(2) 2x	(2) 2x	(2) 2x	(1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	M18x48 STUDS 1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	*	*	4"	*	*	PERF. BWP FULLY SHEATH BOTH SIDES
BWP-4P	*	*	(2) 2x	(2) 2x	(2) 2x	(1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	M18x48 STUDS 1/2" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c. 1/4" x 8" @ 12" o.c.)	*	*	4"	*	*	PERF. BWP FULLY SHEATH BOTH SIDES

NOTES:

- ALL WALL SHEATHING SHALL BE A.P.A. RATED SHEATHING, EXPOSURE 1. INSTALL (1) HOLD DOWN ANCHOR @ EACH END OF EACH SHEAR WALL.
- WHERE STUD MUST BE CUT DUE TO THE PLACEMENT OF ANCHOR BOLTS OR OTHER PRODUCTS, AN ADDITIONAL STUD SHALL BE INSERTED ALONG SIDE.
- ALL PANEL EDGES SHALL BE SOLID BLOCKED WITH 2x FRAMING MEMBER, EXCEPT USE 3x MEMBER FOR NAIL SPACING OF 2' O.C. OR LESS.
- WHERE PLYWOOD SHEATHING IS APPLIED ON BOTH FACES OF WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.
- DISTANCE FROM PANEL EDGE TO NAILING SHALL BE NOT LESS THAN 3/8"
- SHEATHING SHALL BE APPLIED WITH EDGES 1/8" APART AT JOINTS AND 1/16" APART AT END JOINTS.
- NAILS REFERRED TO SHALL BE COMMON OR GALVANIZED BOX NAILS.
- THE "1/2" MARK REFERS TO "SIMPSON" HOLD-DOWN ANCHORS.
- INSTALL STRAPS AND ANCHORS PER SIMPSON'S RECOMMENDATIONS.
- ALL ANCHOR BOLT WASHERS SHALL BE 303 PLATE STEEL.



DATE:
FEBRUARY 7, 2026

PROJECT TITLE:
IDAHO STATE PARK HOUSEING

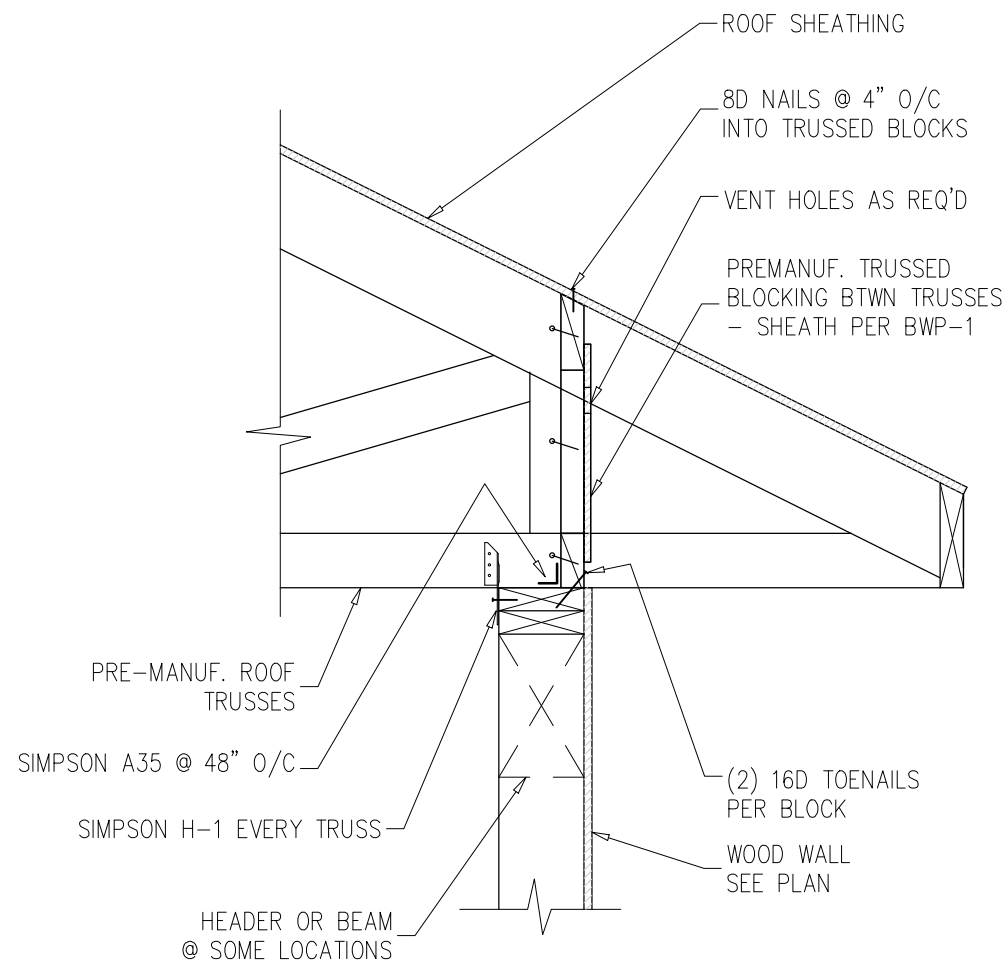
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BRACED WALL PANEL PLAN

PROJECT NUMBER:

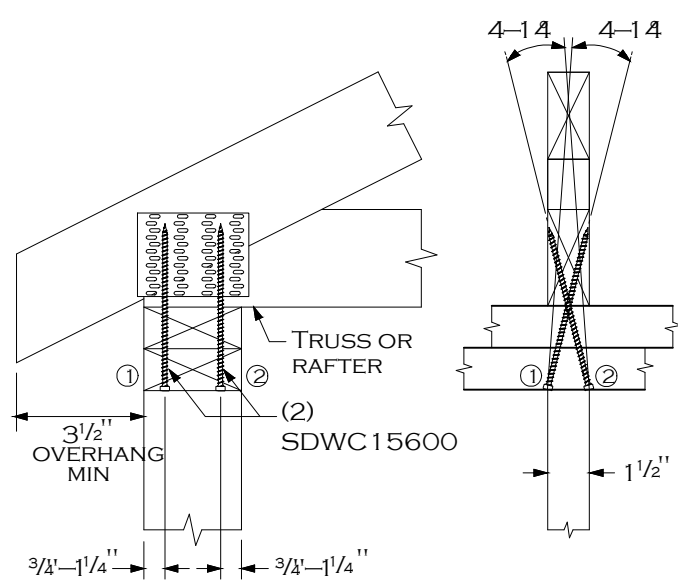
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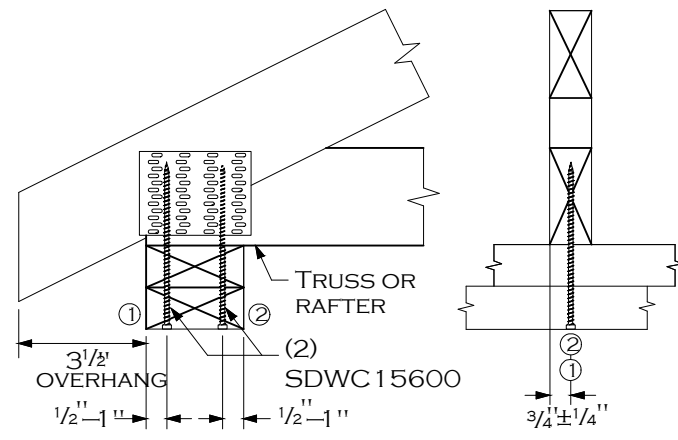
S2.1



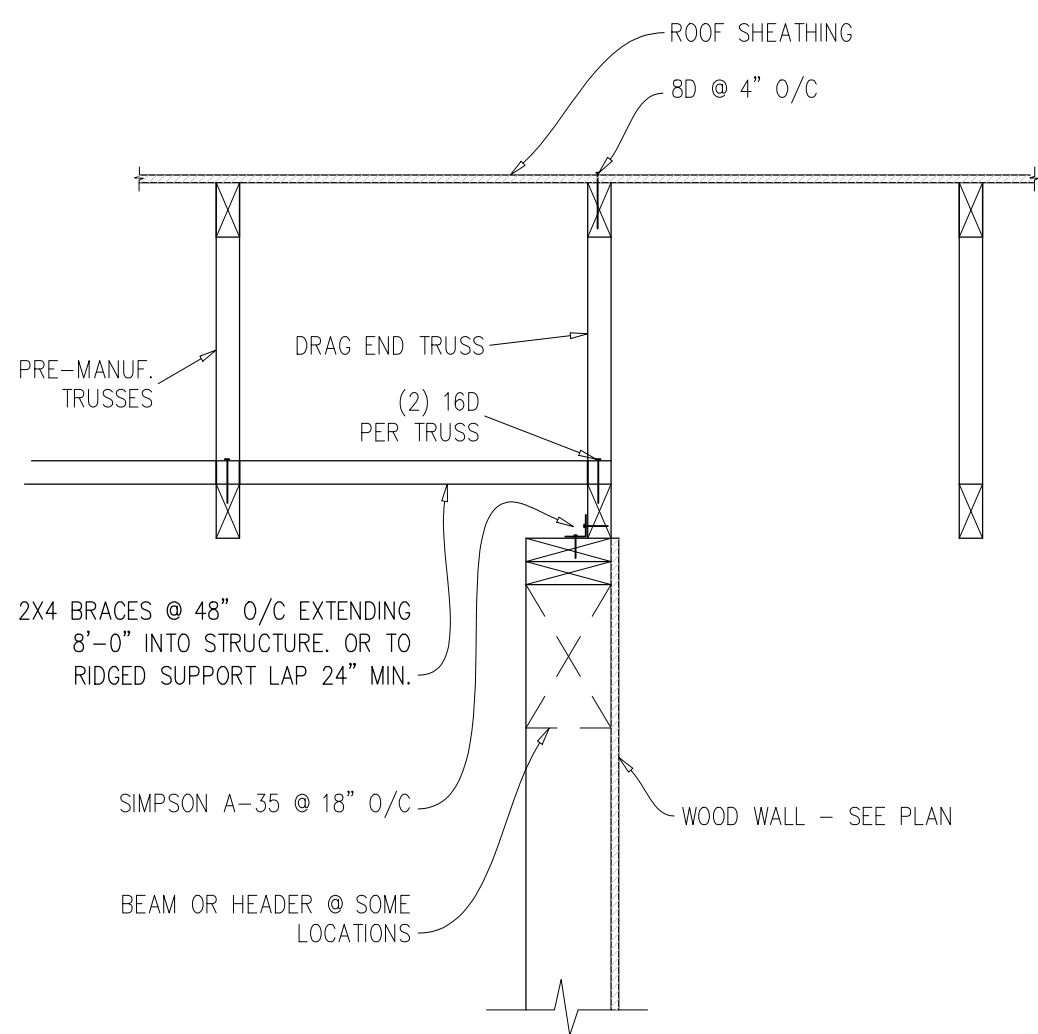
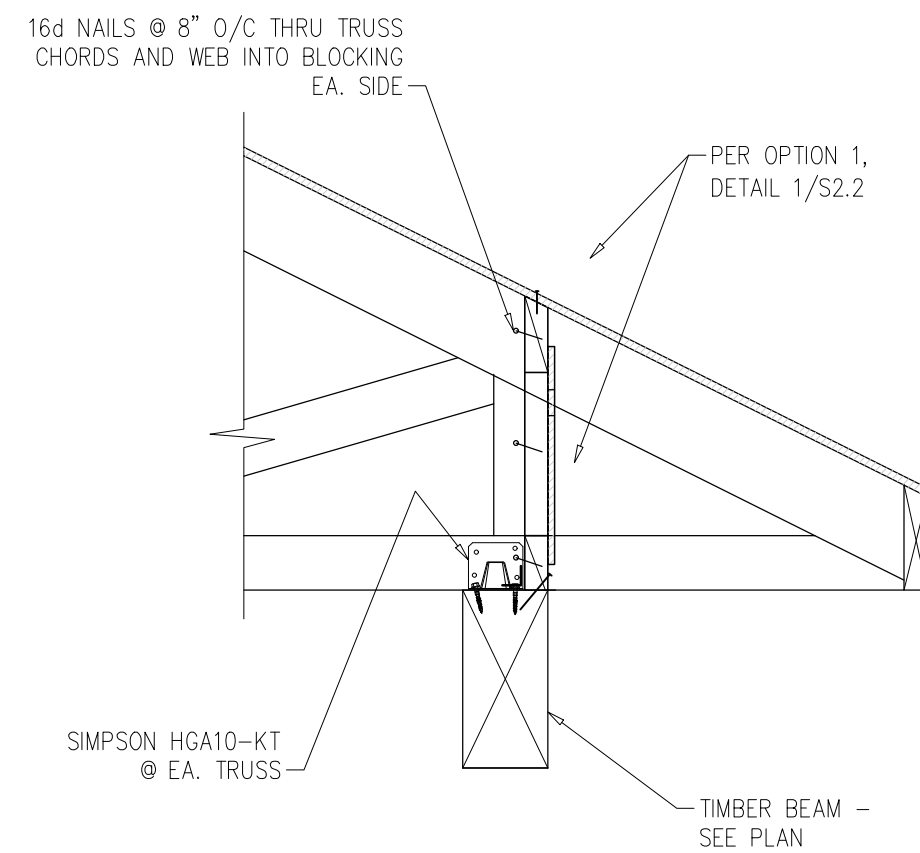
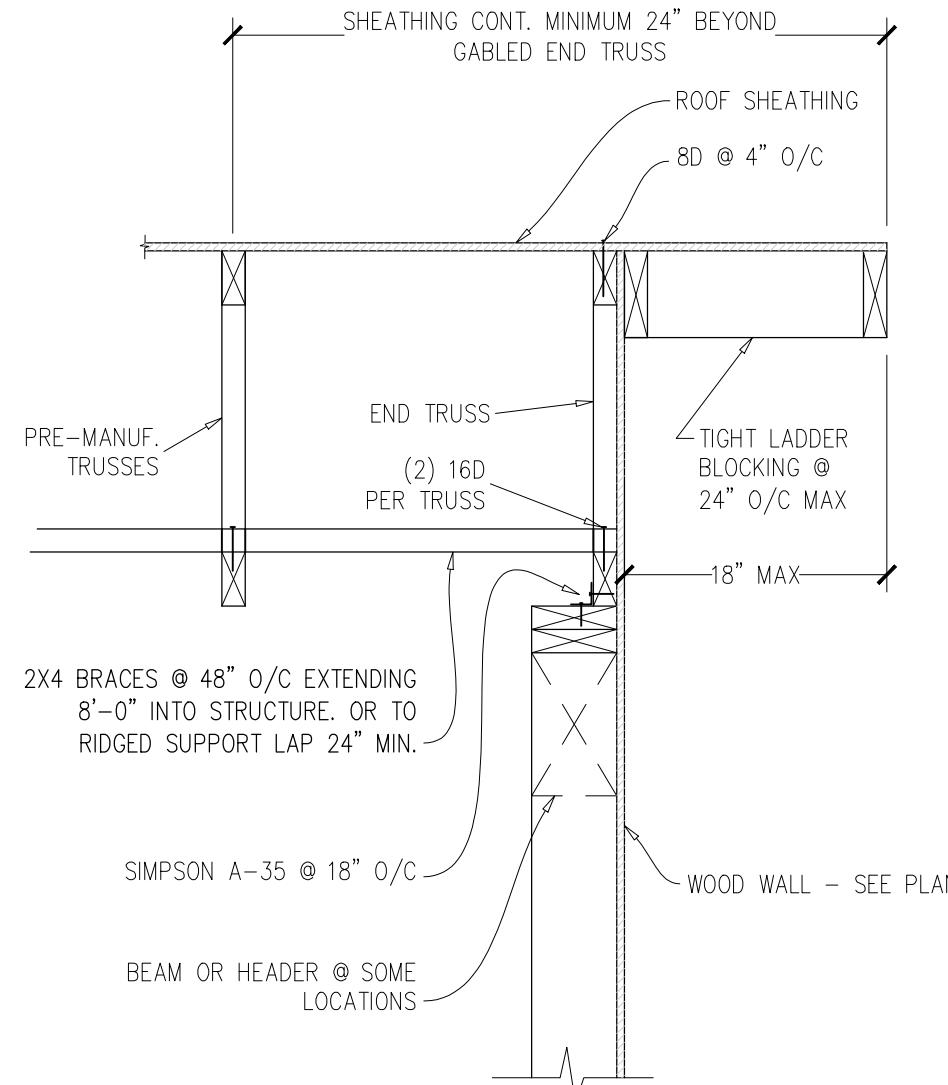
OPTION 1



OPTION 2
(2) SIMPSON SDW15600 PER TRUSS
BLOCKING, A35, AND NAILING PER OPTION 1 (NOT SHOWN FOR CLARITY)

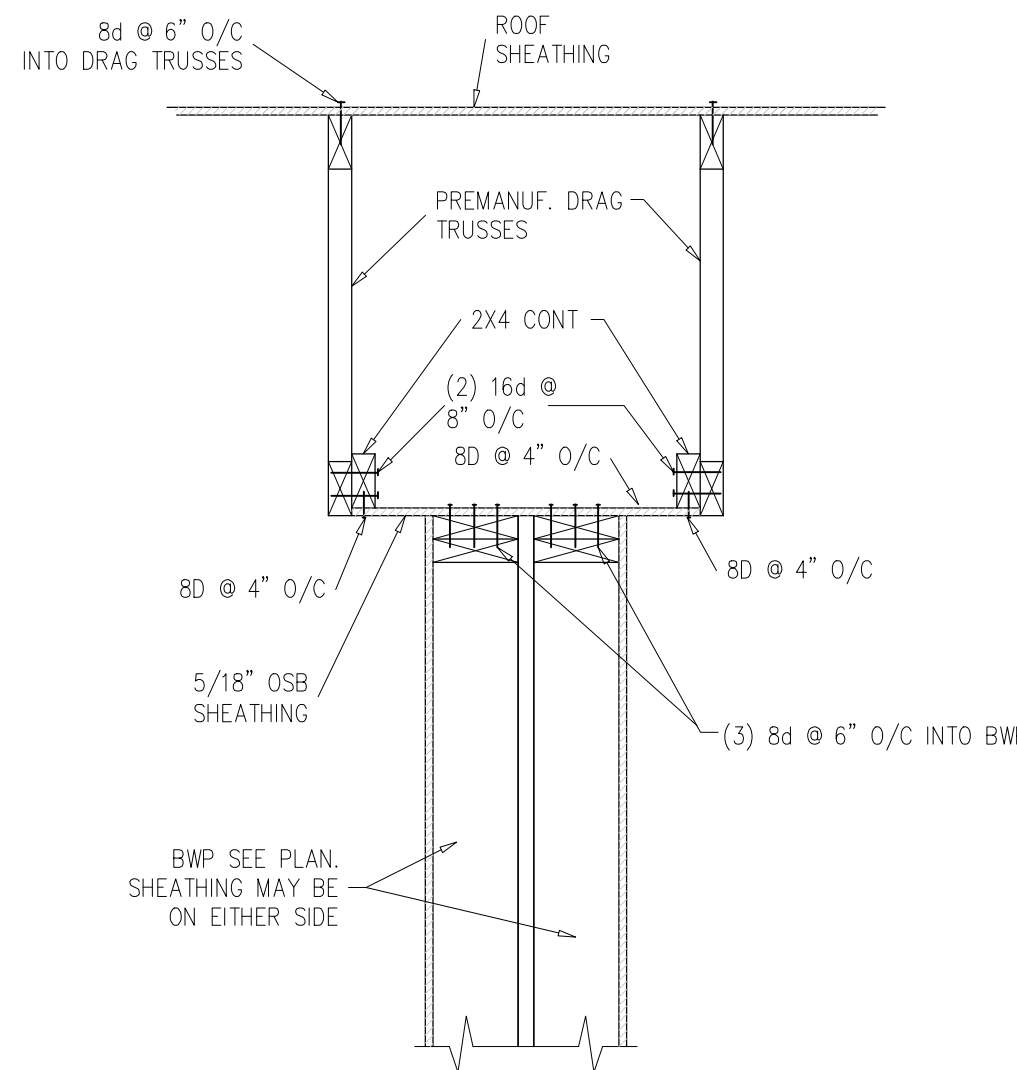


OPTION 3
(2) SIMPSON SDW15600 PER TRUSS
BLOCKING, A35, AND NAILING PER OPTION 1 (NOT SHOWN FOR CLARITY)



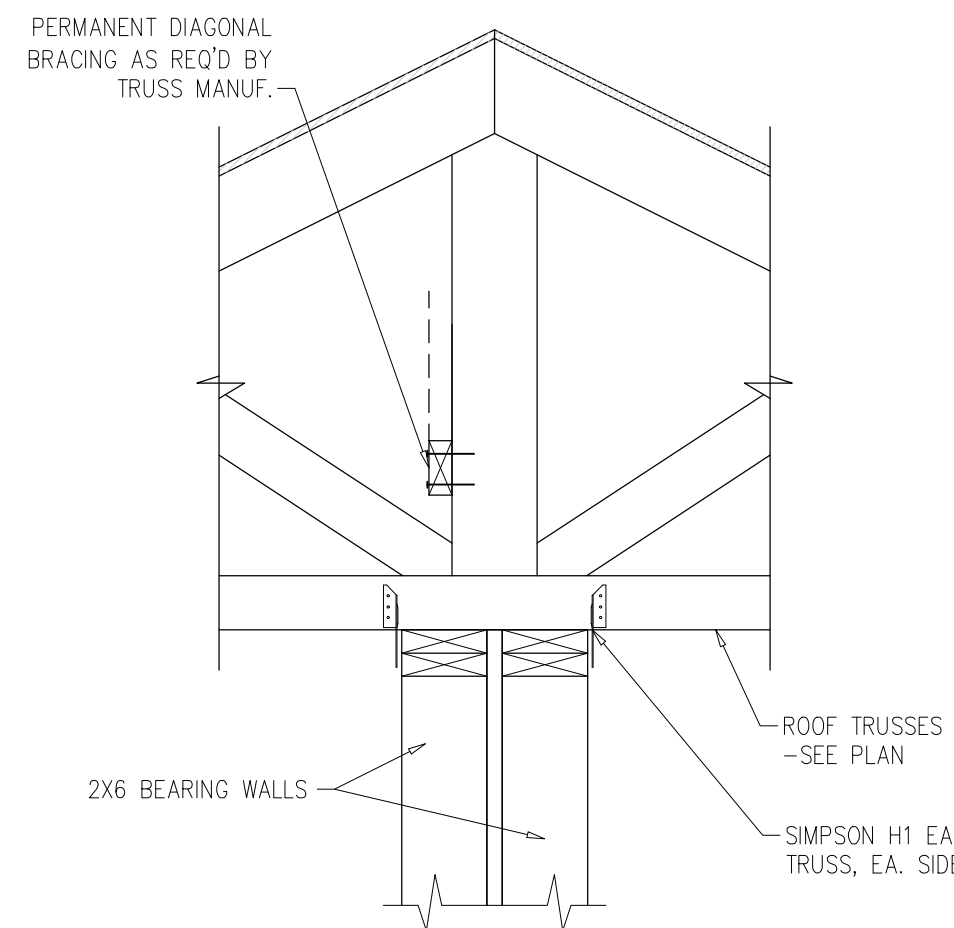
DETAIL

4



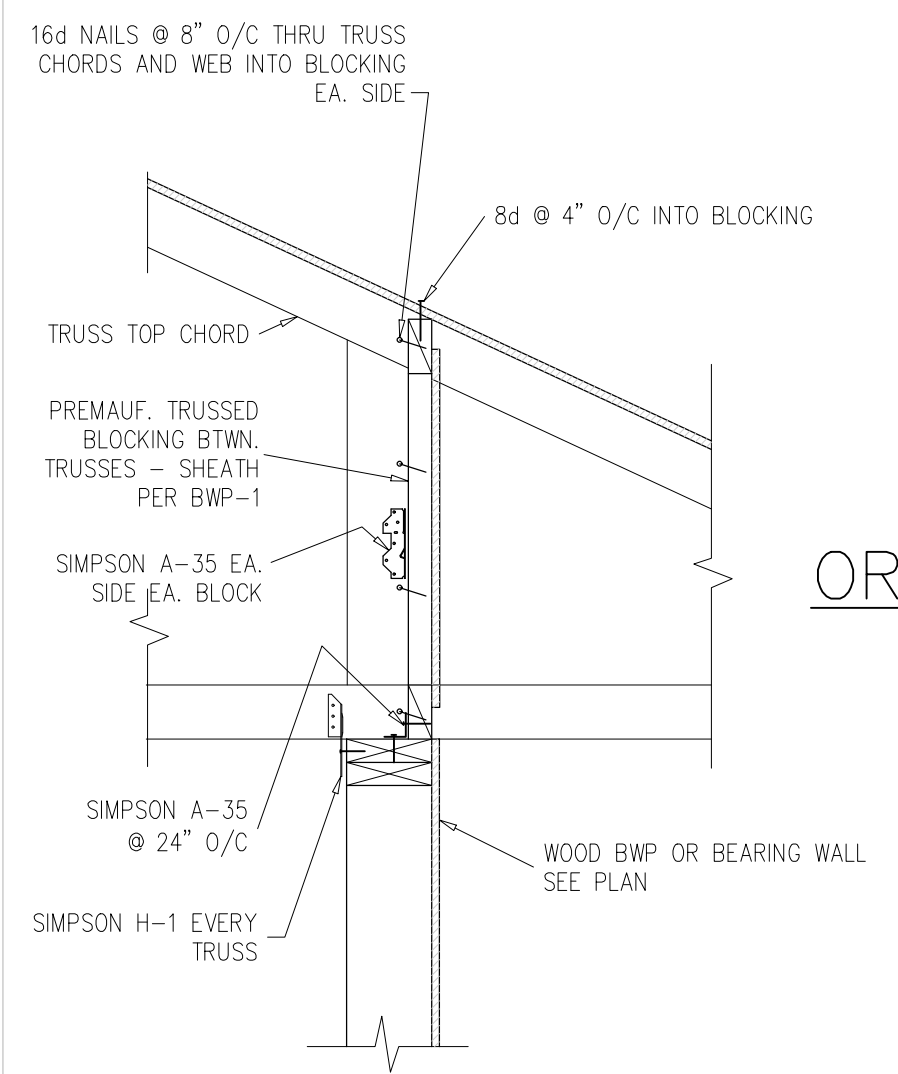
DETAIL

5



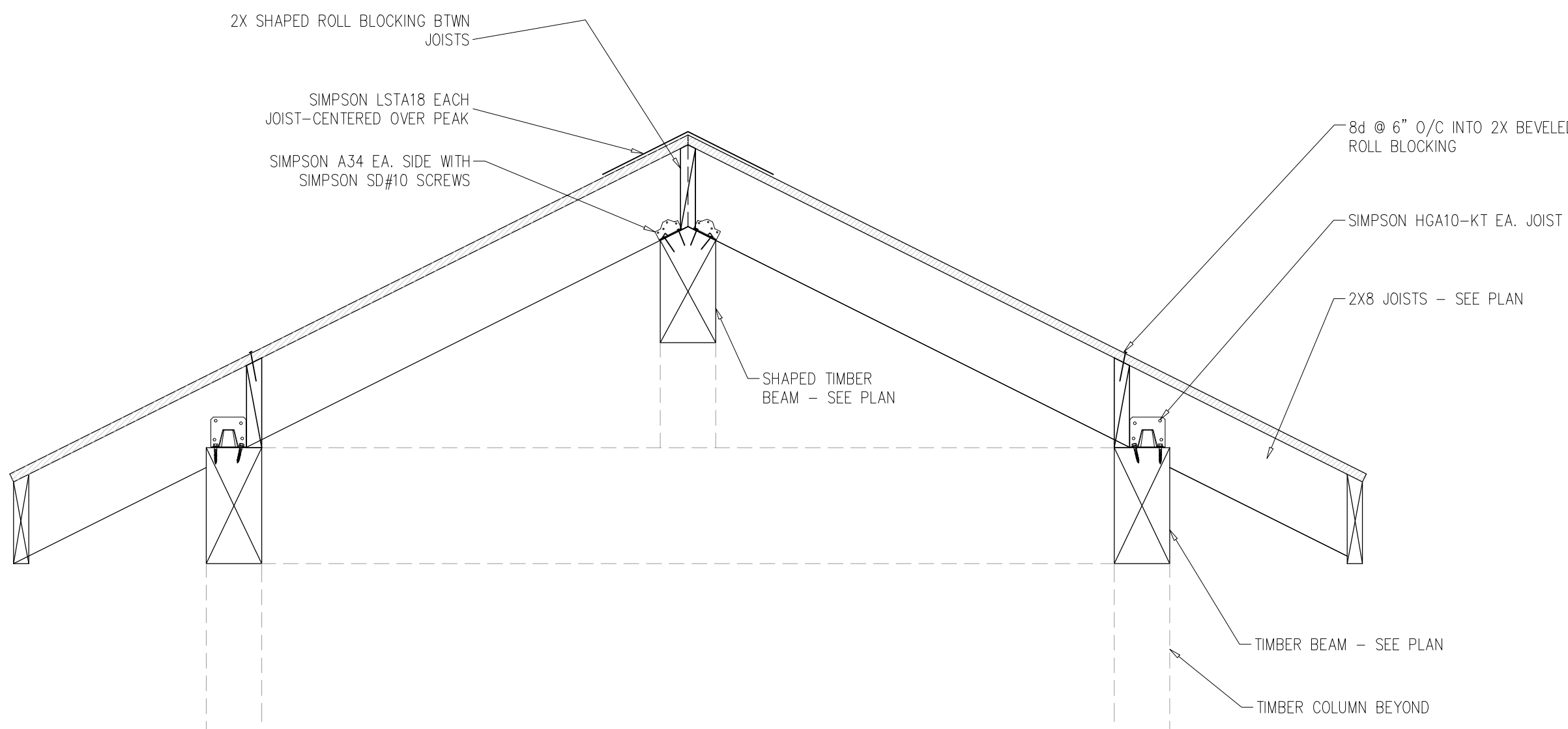
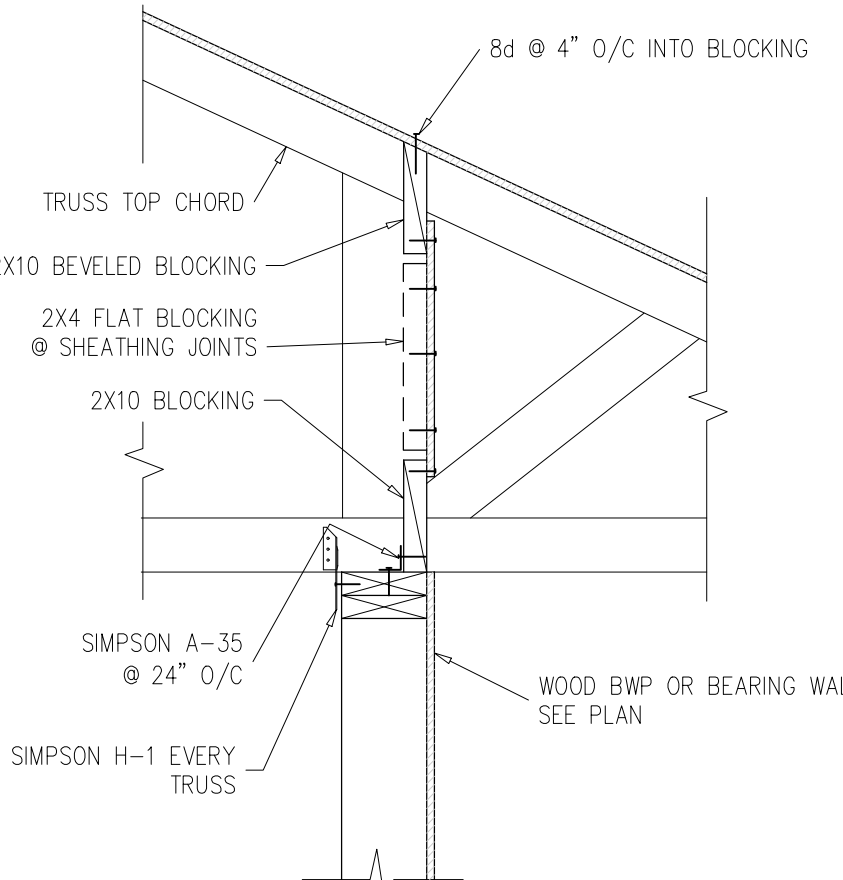
DETAIL

6



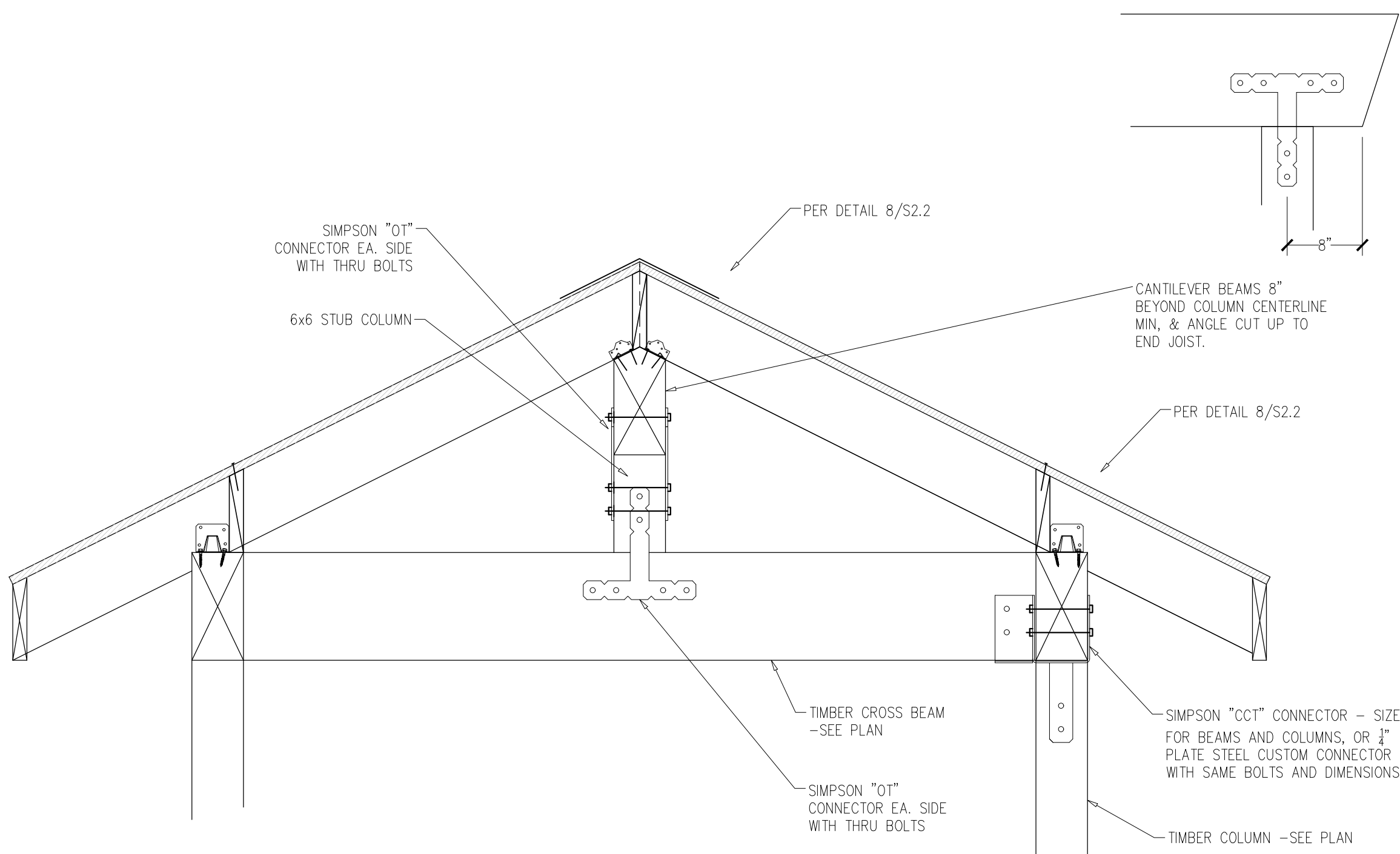
DETAIL

7



DETAIL

8



DETAIL

9



DATE:
FEBRUARY 7, 2026

PROJECT TITLE:

IDAHO STATE PARK HOUSEING

SHEET TITLE:

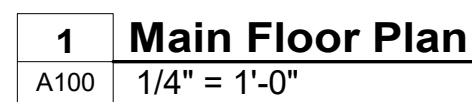
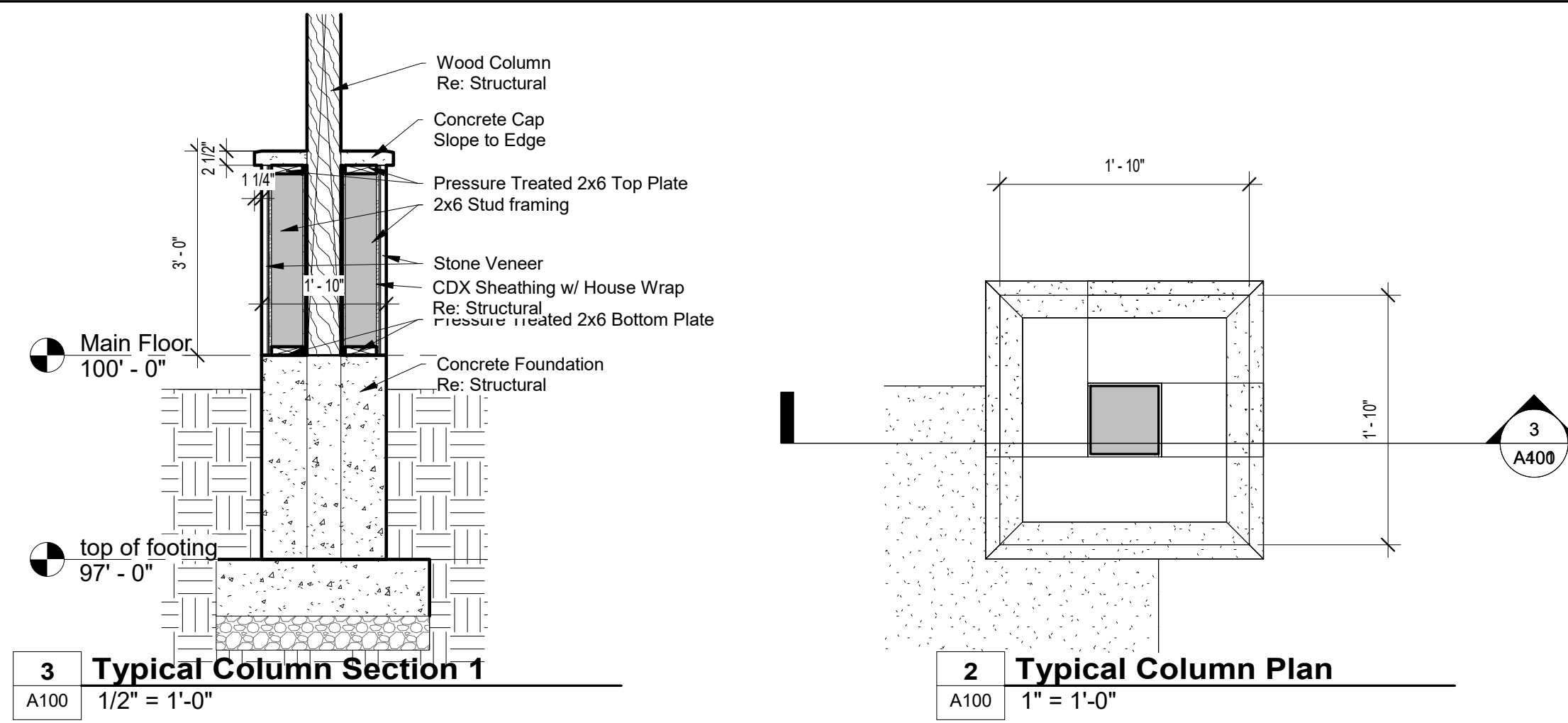
ROOF FRAMING
DETAILS

PROJECT NUMBER:

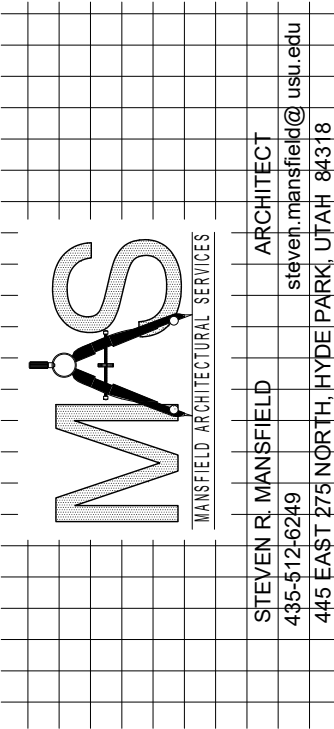
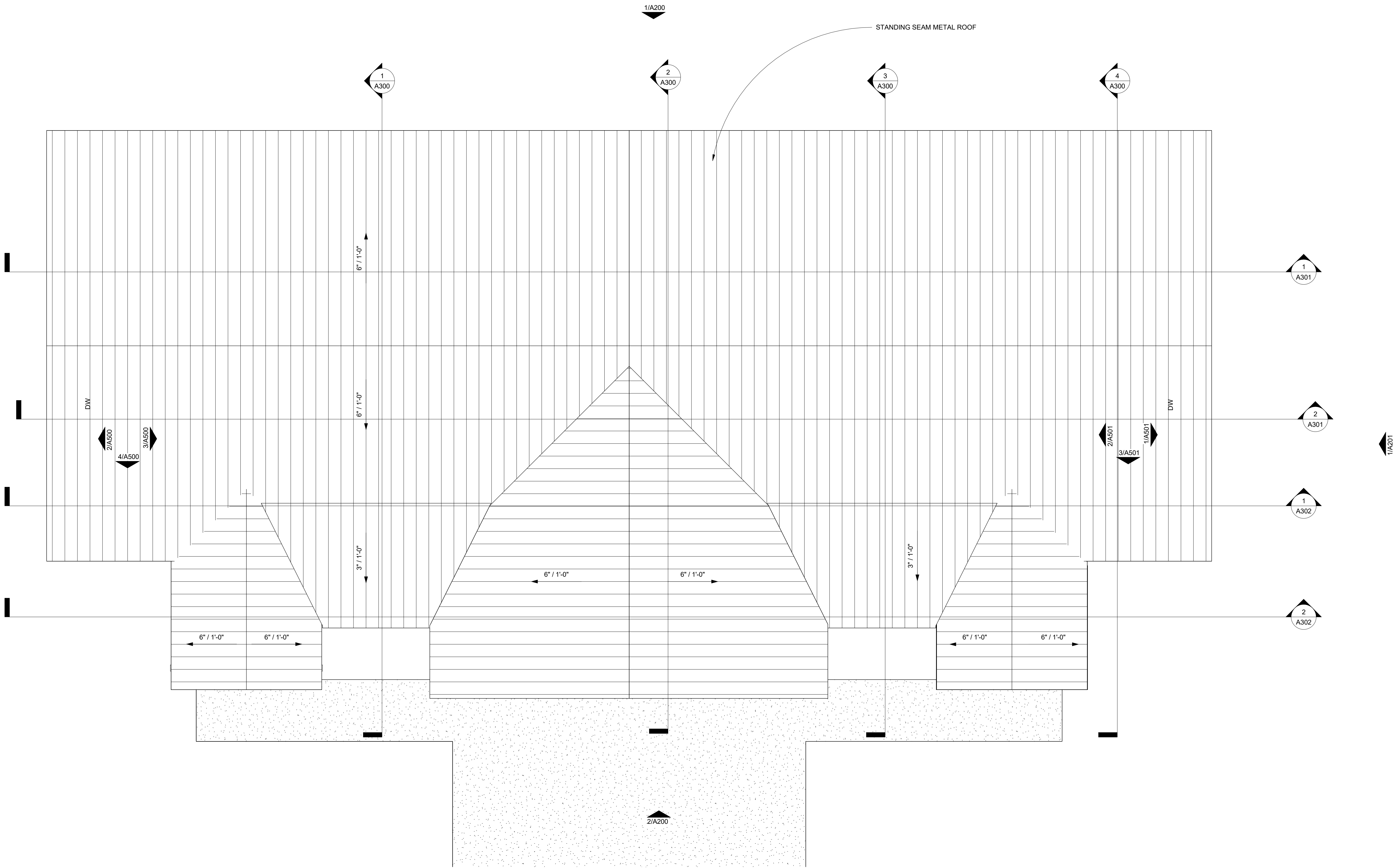
REVISIONS:

SHEET NUMBER:

S2.2



1 Roof Plan
A101 1/4" = 1'-0"



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

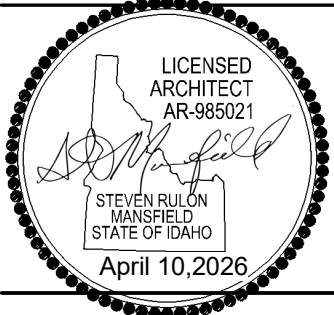
OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

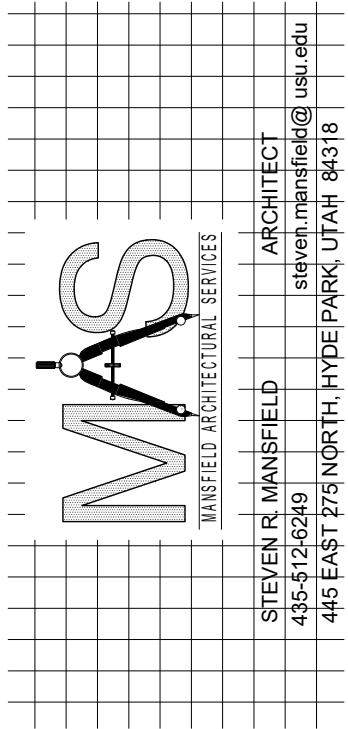
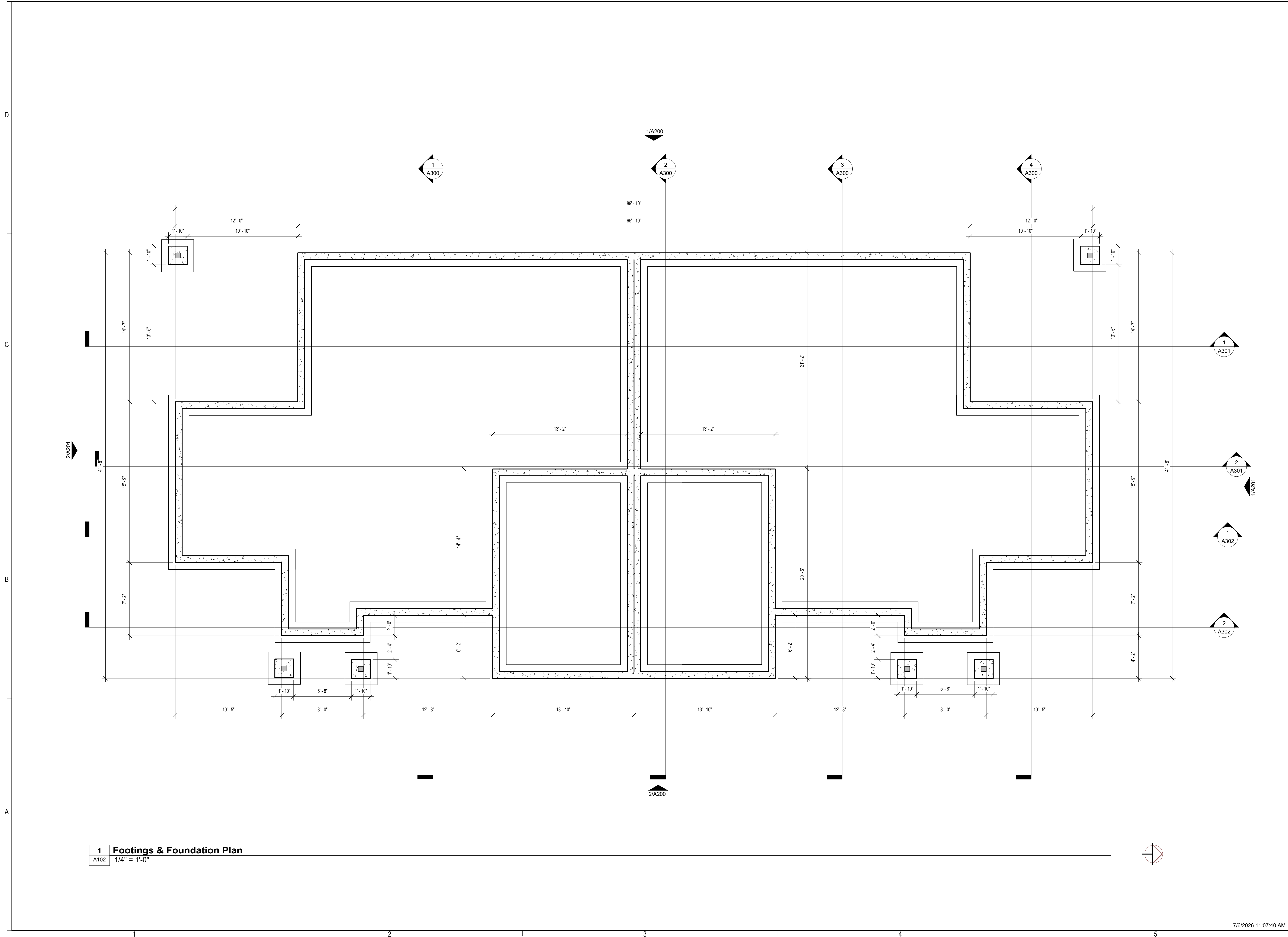
MARK:	DATE:	DESCRIPTION:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026



Roof Plan

A101



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

MARK:	DATE:	DESCRIPTION:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026



**Footing &
Foundation
Plan**

A102

Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

DESCRIPTION:

MARK: DATE:

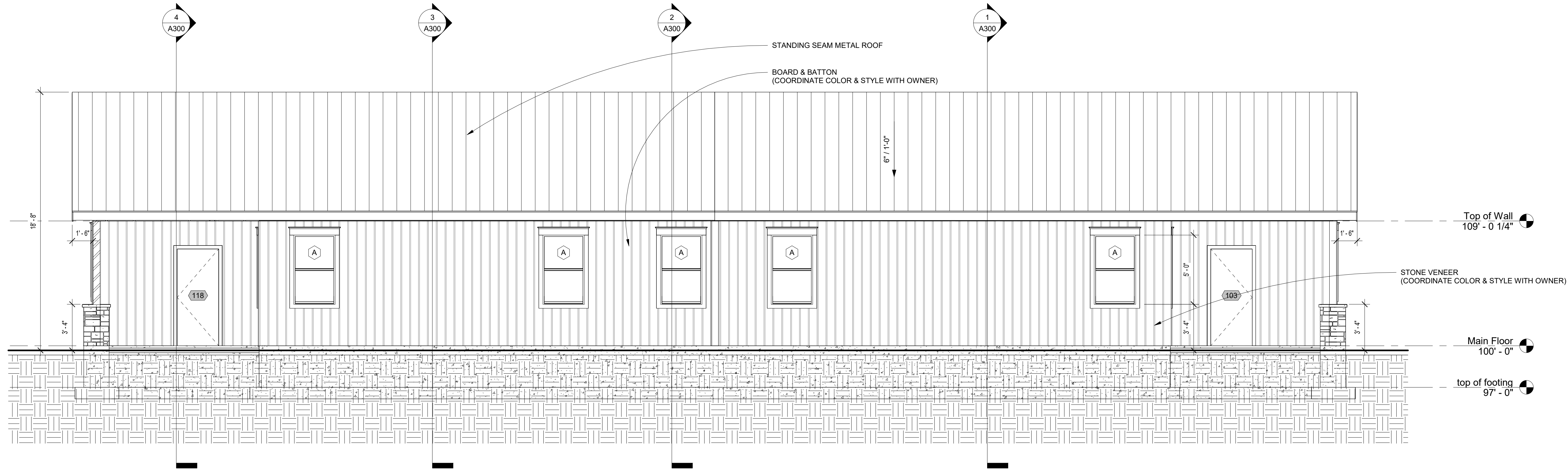
PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026



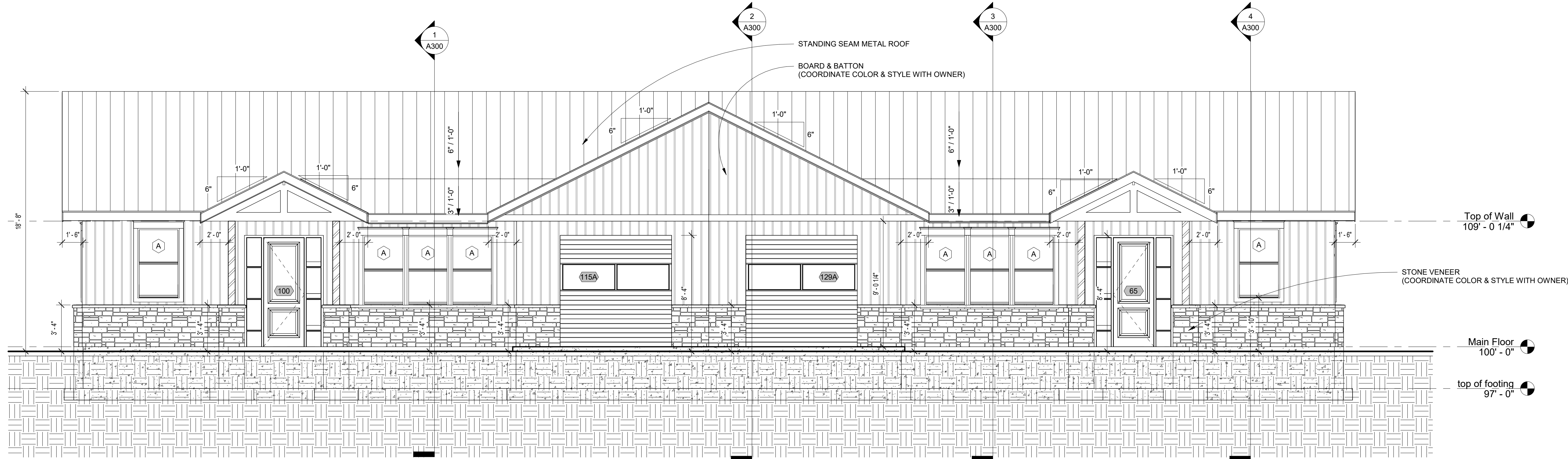
North &
South
Elevation
Plan

A200

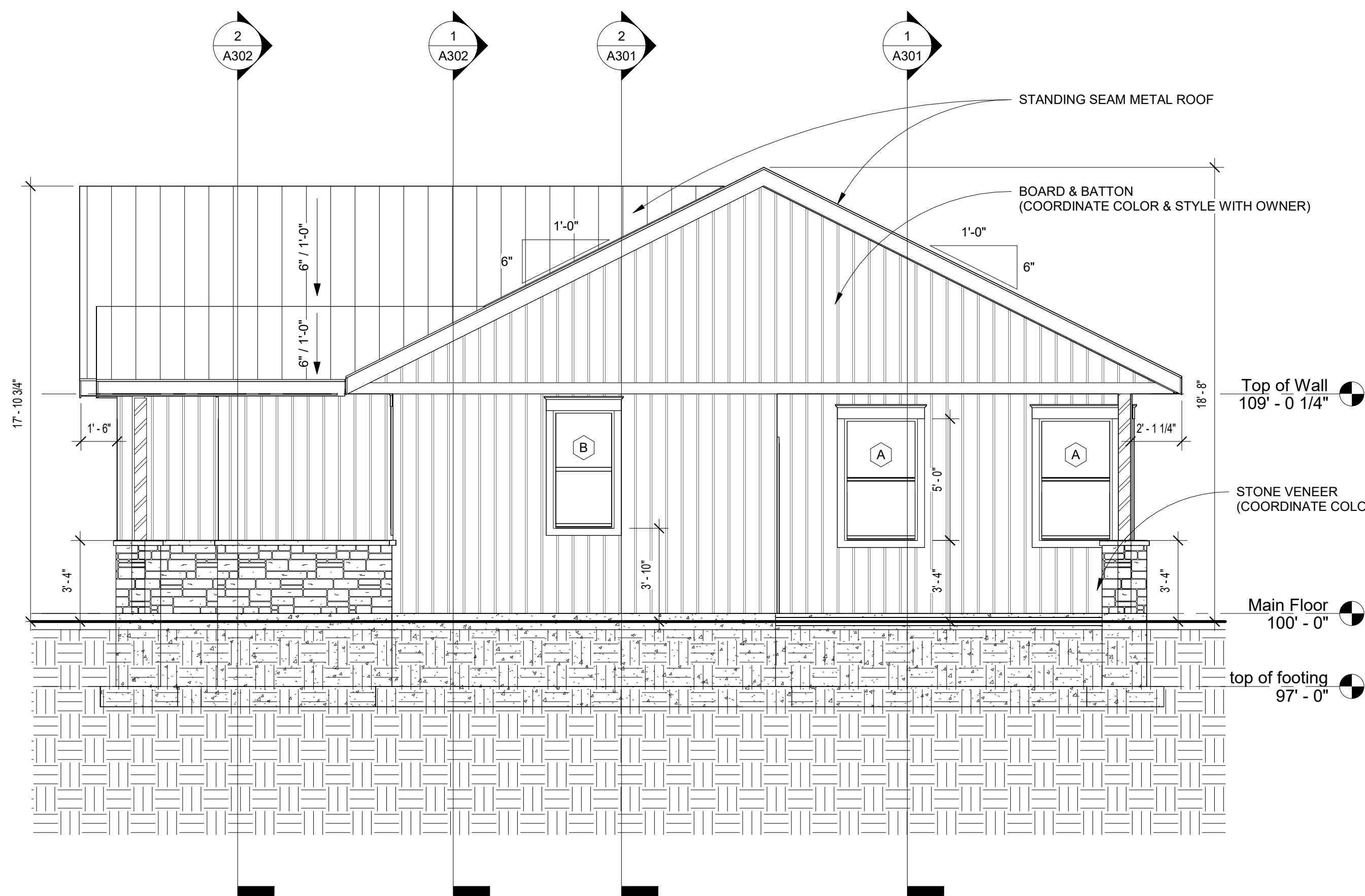
1 North Elevation
A200 1/4" = 1'-0"



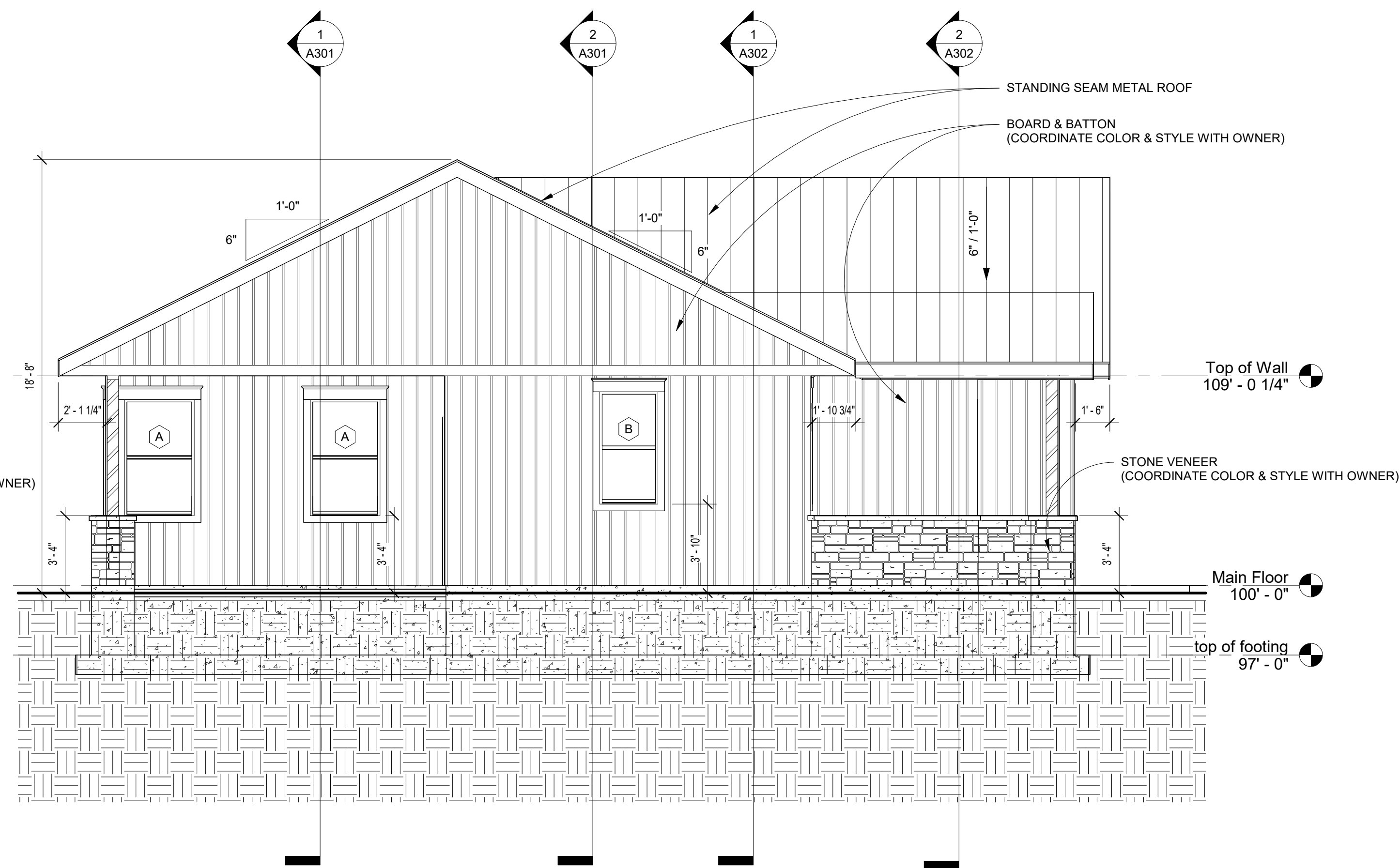
2 South Elevation
A200 1/4" = 1'-0"



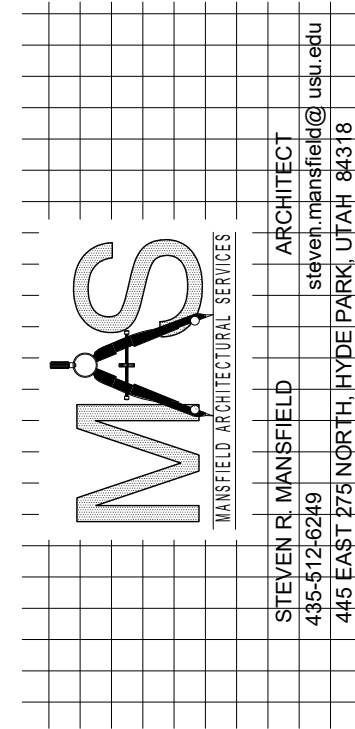
D
C
B
A



1 East Elevation
A201 1/4" = 1'-0"



2 West Elevation
A201 1/4" = 1'-0"



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

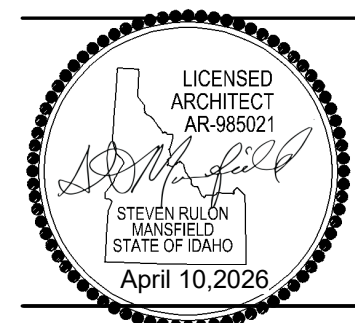
OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

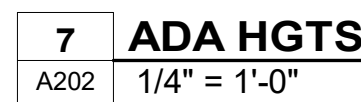
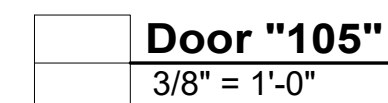
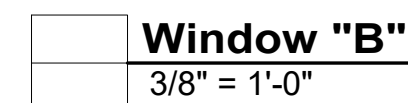
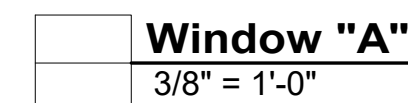
MARK:	DATE:	DESCRIPTION:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026

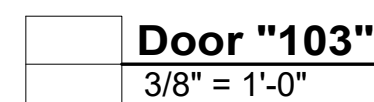
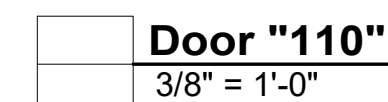
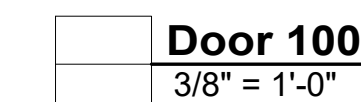
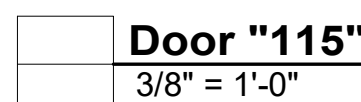


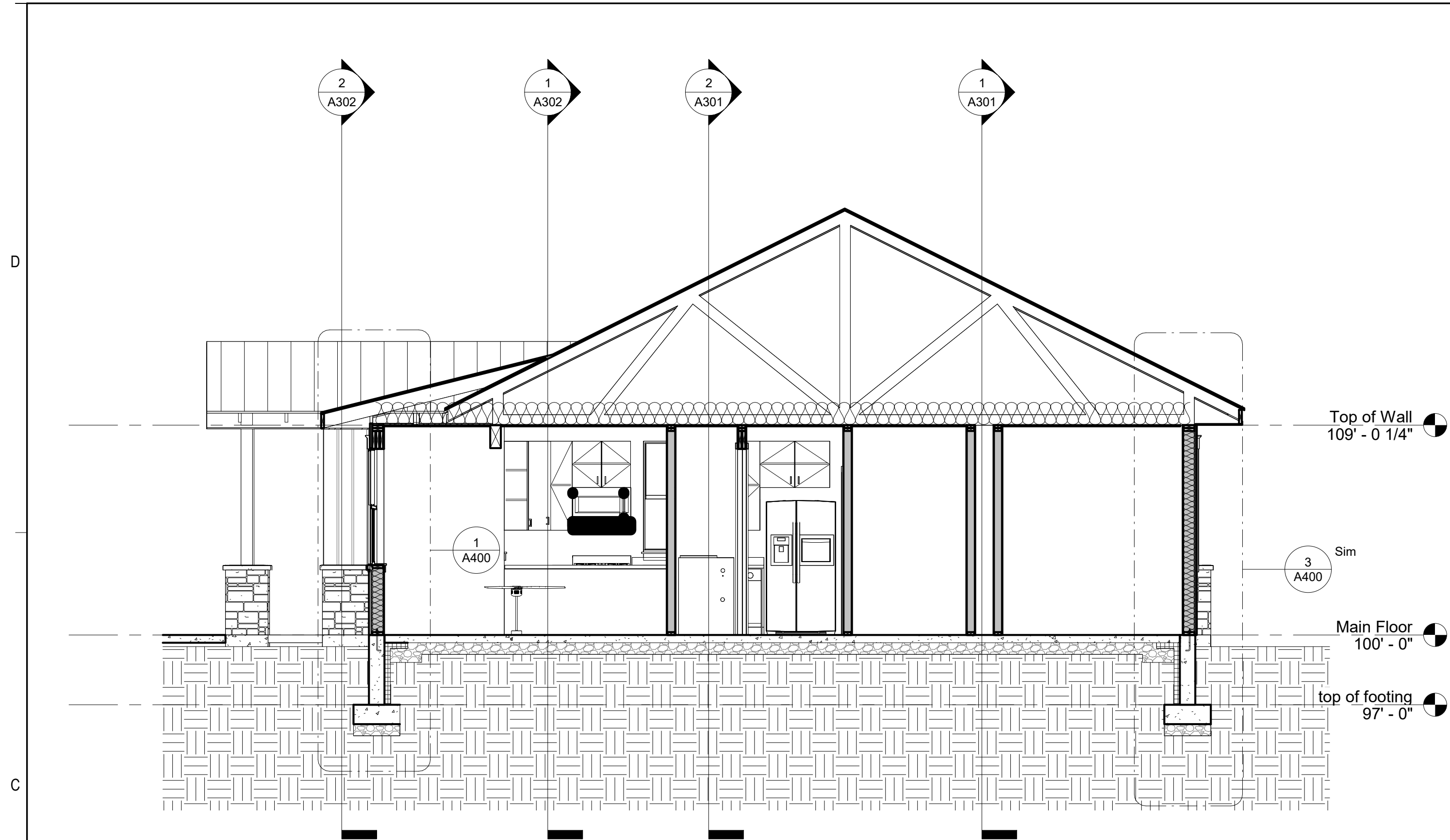
East & West
Elevation
Plan

A201

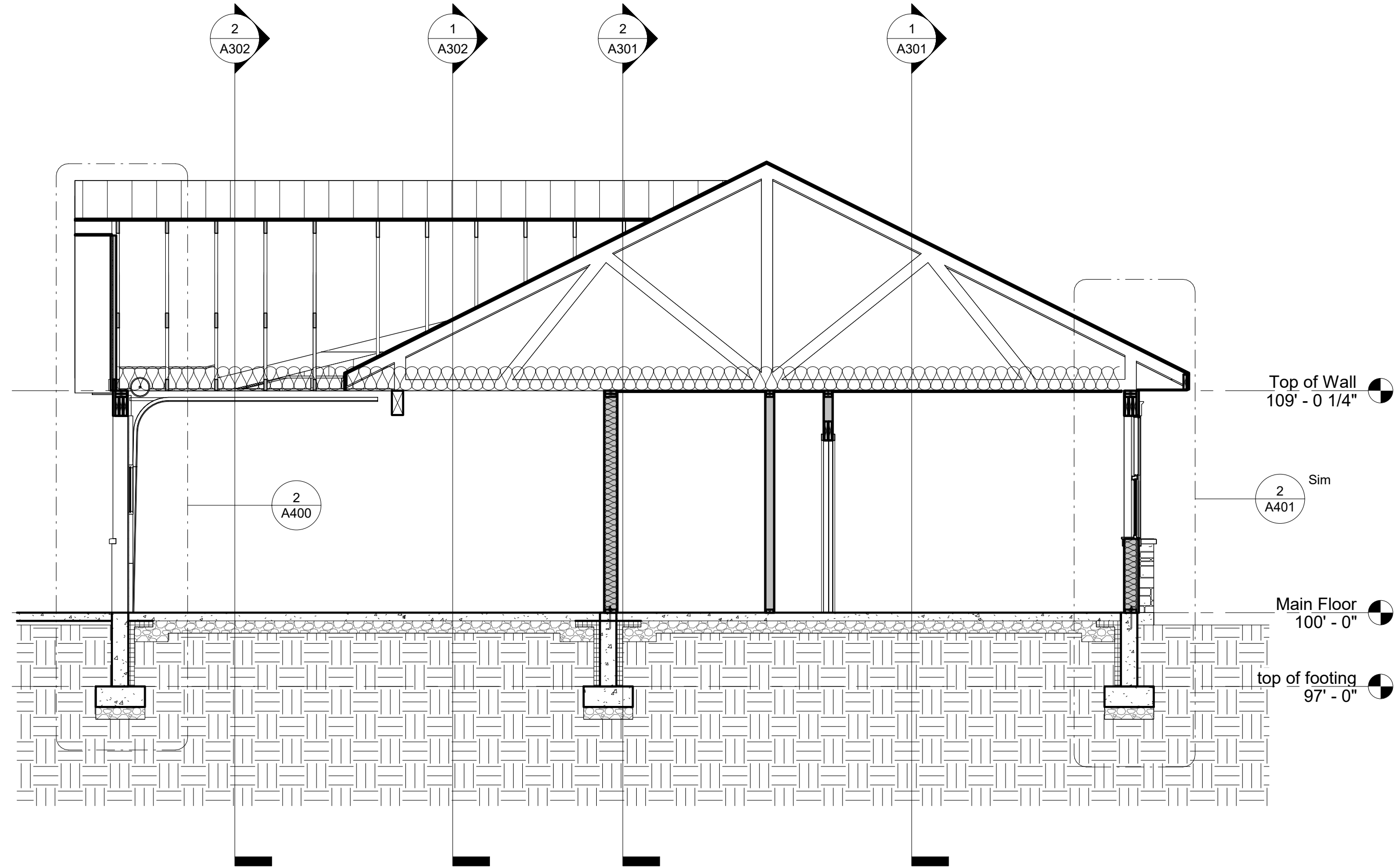
Grand total

ADA COMPLIANT THRESHOLD	
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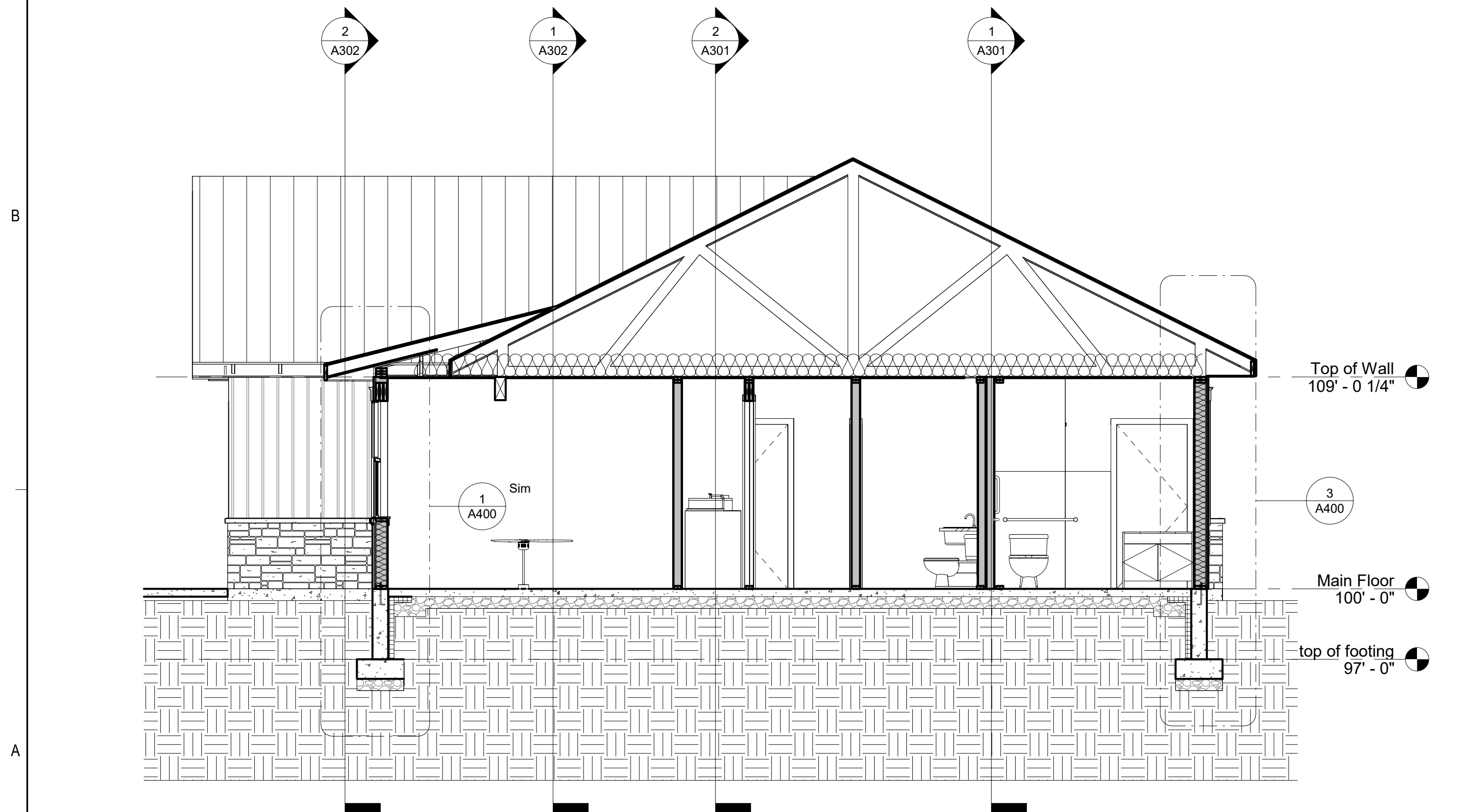




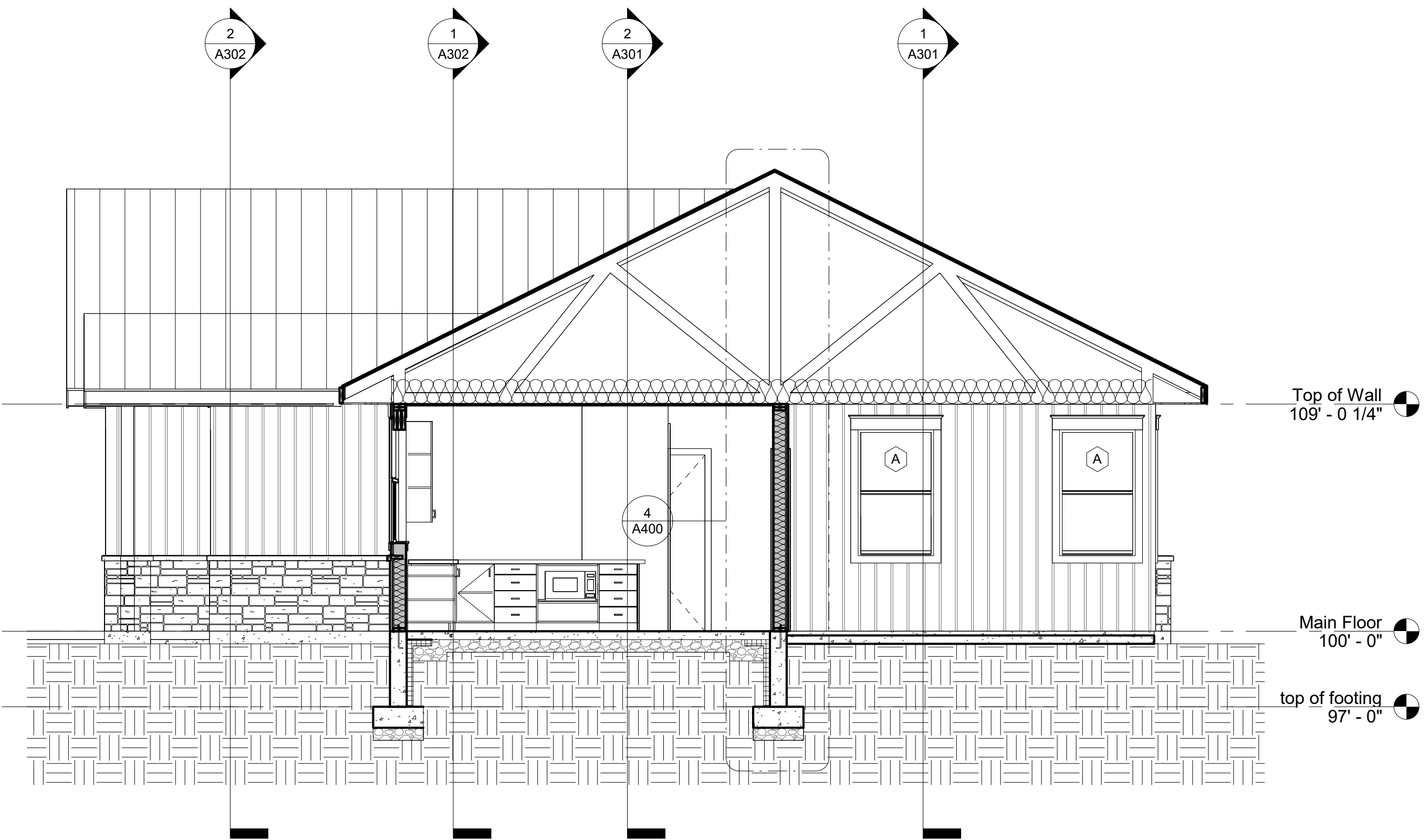
1 Building Section "A"
A300 1/4" = 1'-0"



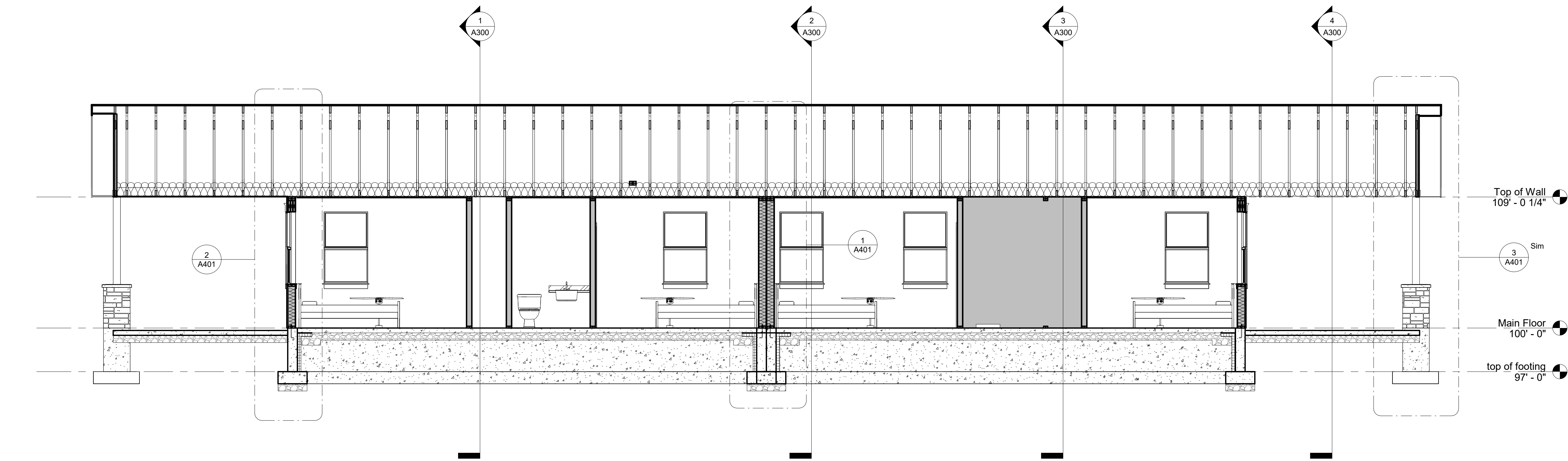
2 Building Section "B"
A300 1/4" = 1'-0"



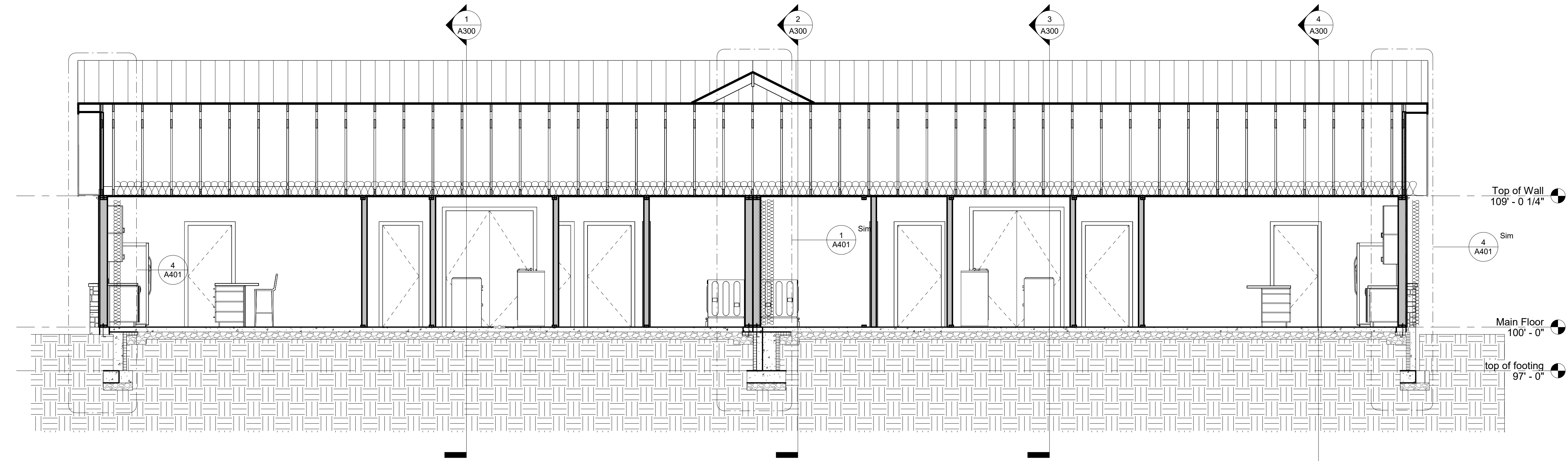
3 Building Section "C"
A300 1/4" = 1'-0"



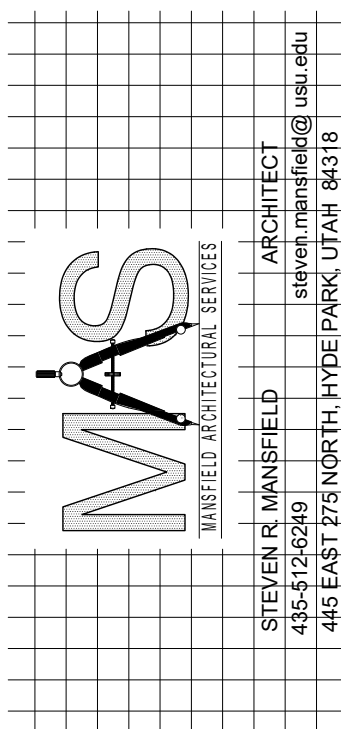
4 Building Section "D"
A300 1/4" = 1'-0"



1 Building Section "E"
A301 1/4" = 1'-0"



2 Building Section "F"
A301 1/4" = 1'-0"



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

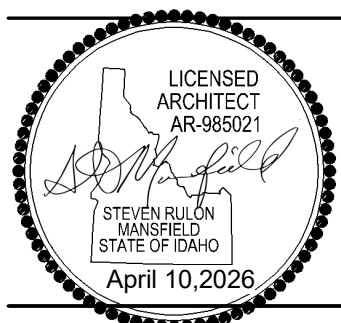
OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

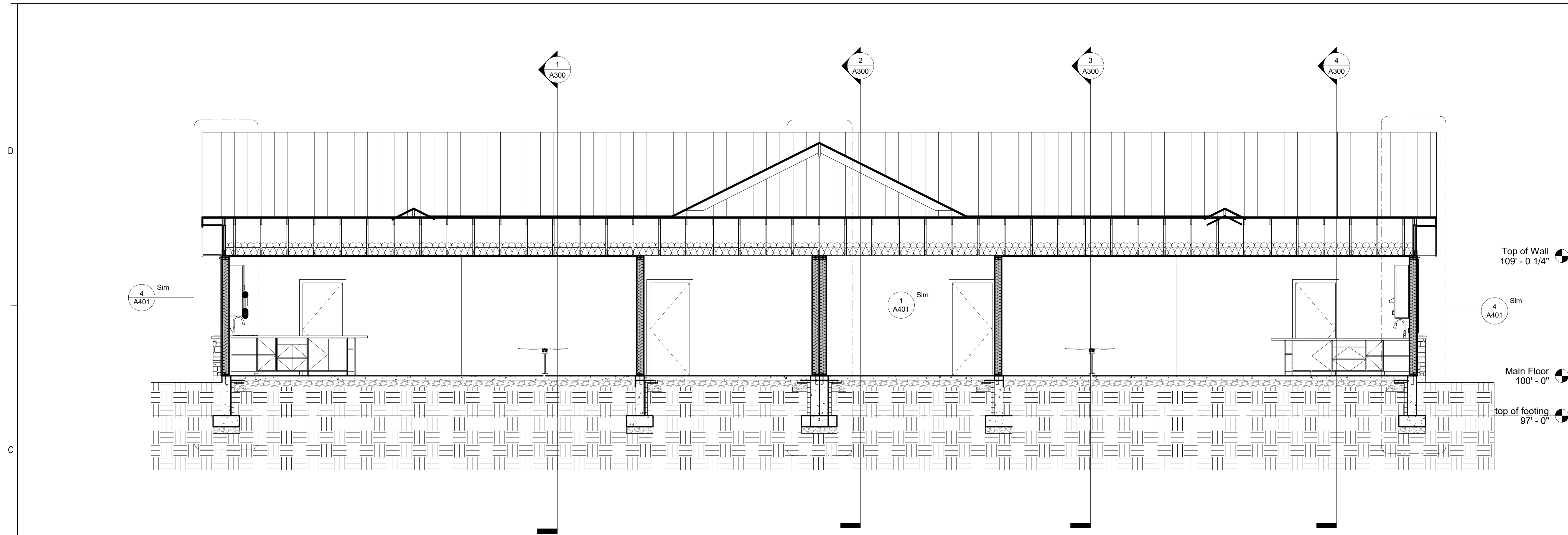
MARK: DATE:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026

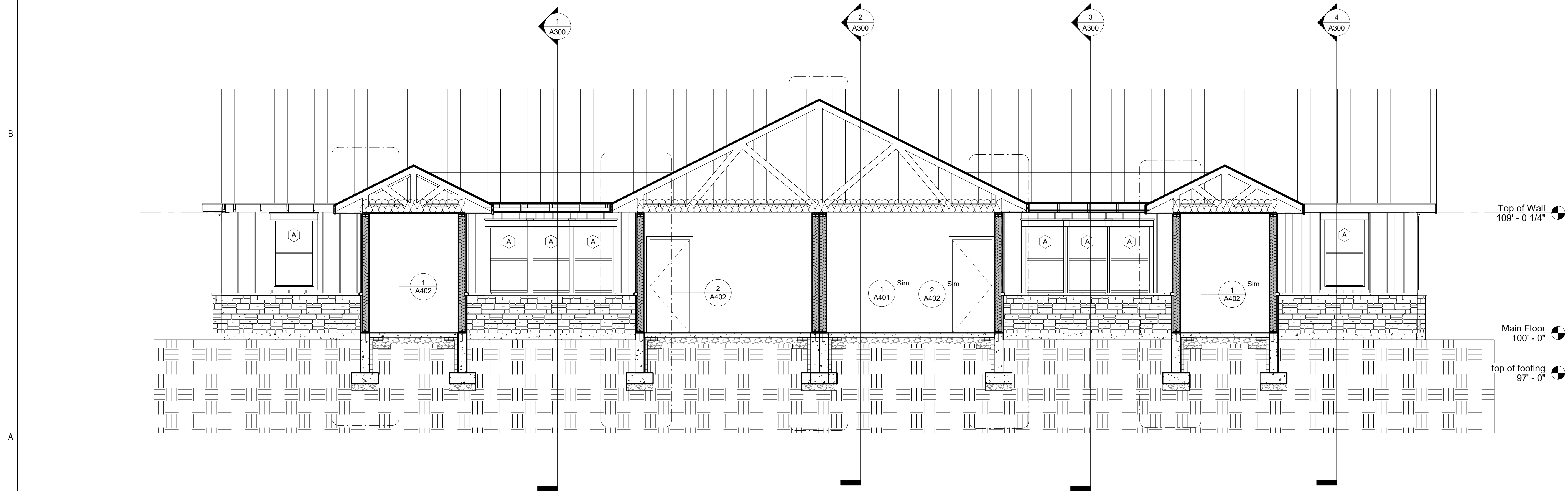


Building
Section 2

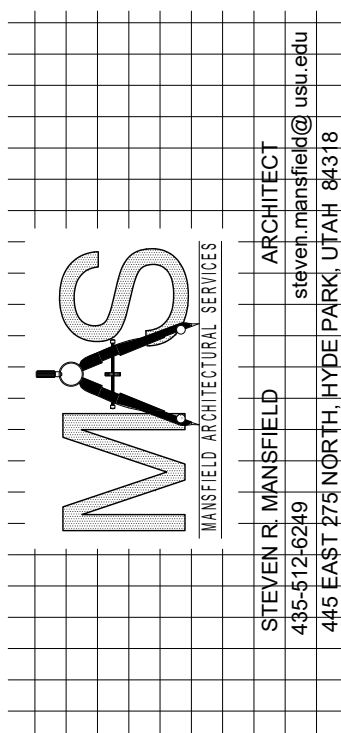
A301



1 Building Section "G"
A302 1/4" = 1'-0"



2 Building Section "H"
A302 1/4" = 1'-0"



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

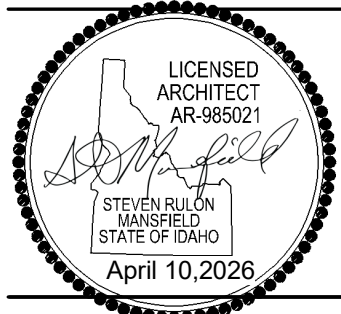
OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

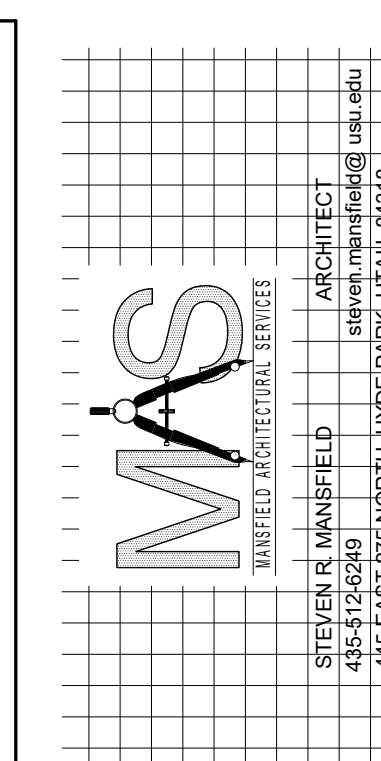
MARK:	DATE:	DESCRIPTION:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026



Building
Section 3

A302

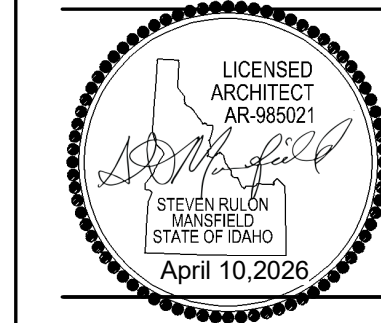


OWNERS NAME	State of Idaho
PROJECT ADDRESS	

[illegible]

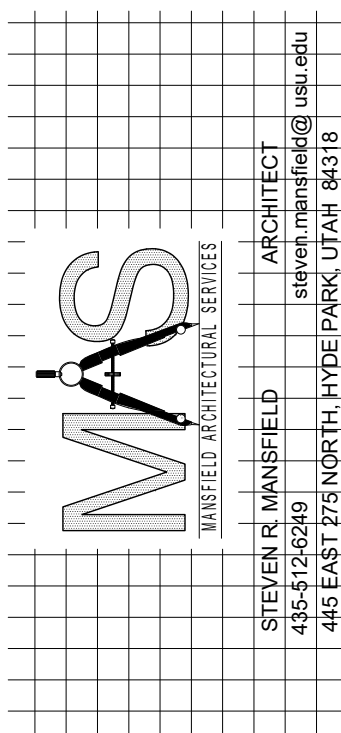
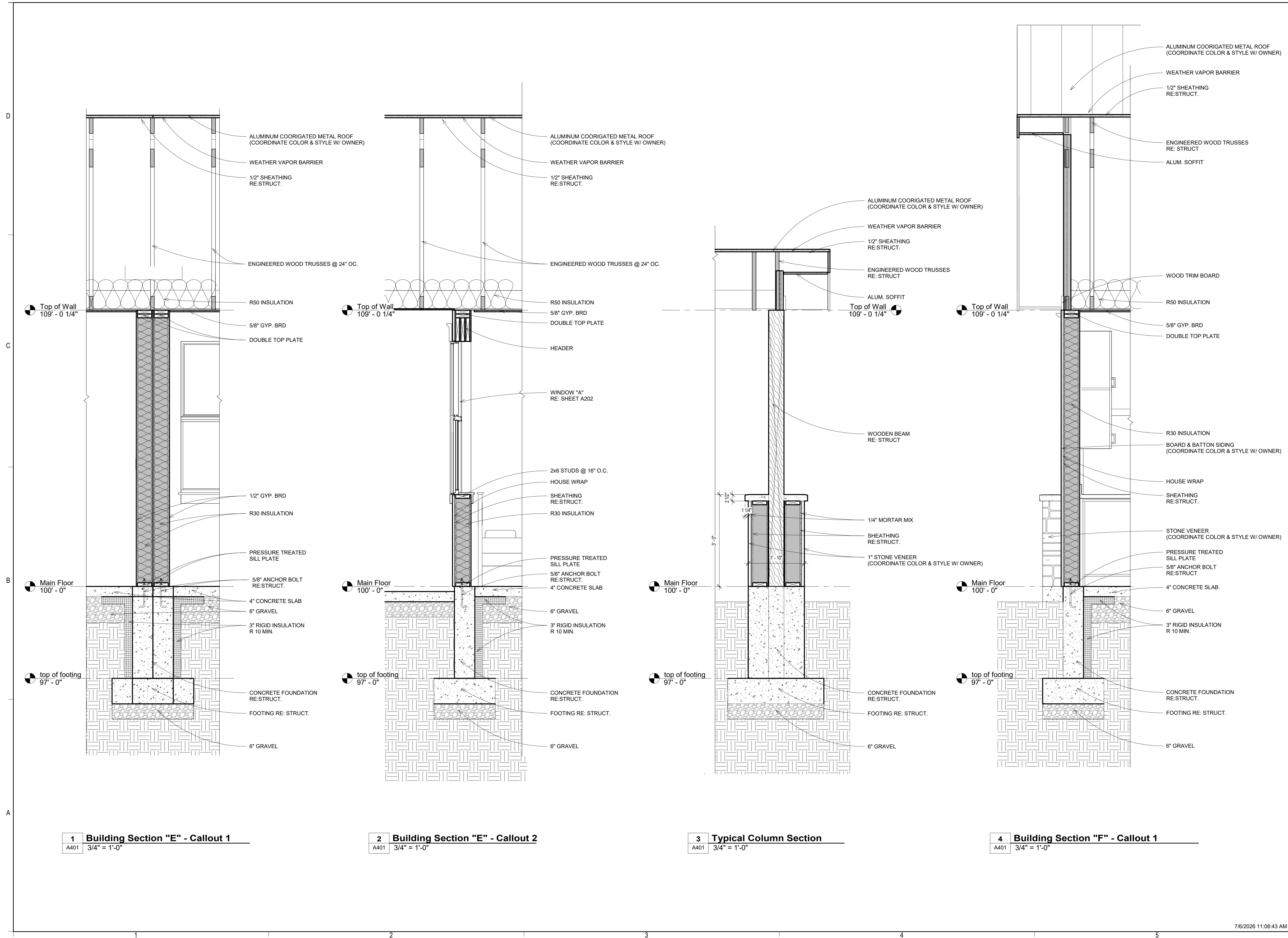
PROJECT
#: 436
DESIGNED
BY: srm
DRAWN
BY: srm

CHECKED BY: srm
ISSUED
: 7/6/2026



Wall Section
1

A400



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

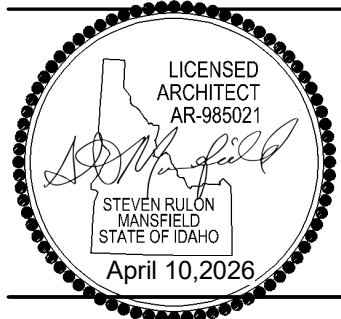
OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

MARK:	DATE:	DESCRIPTION:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026



Wall Section
2

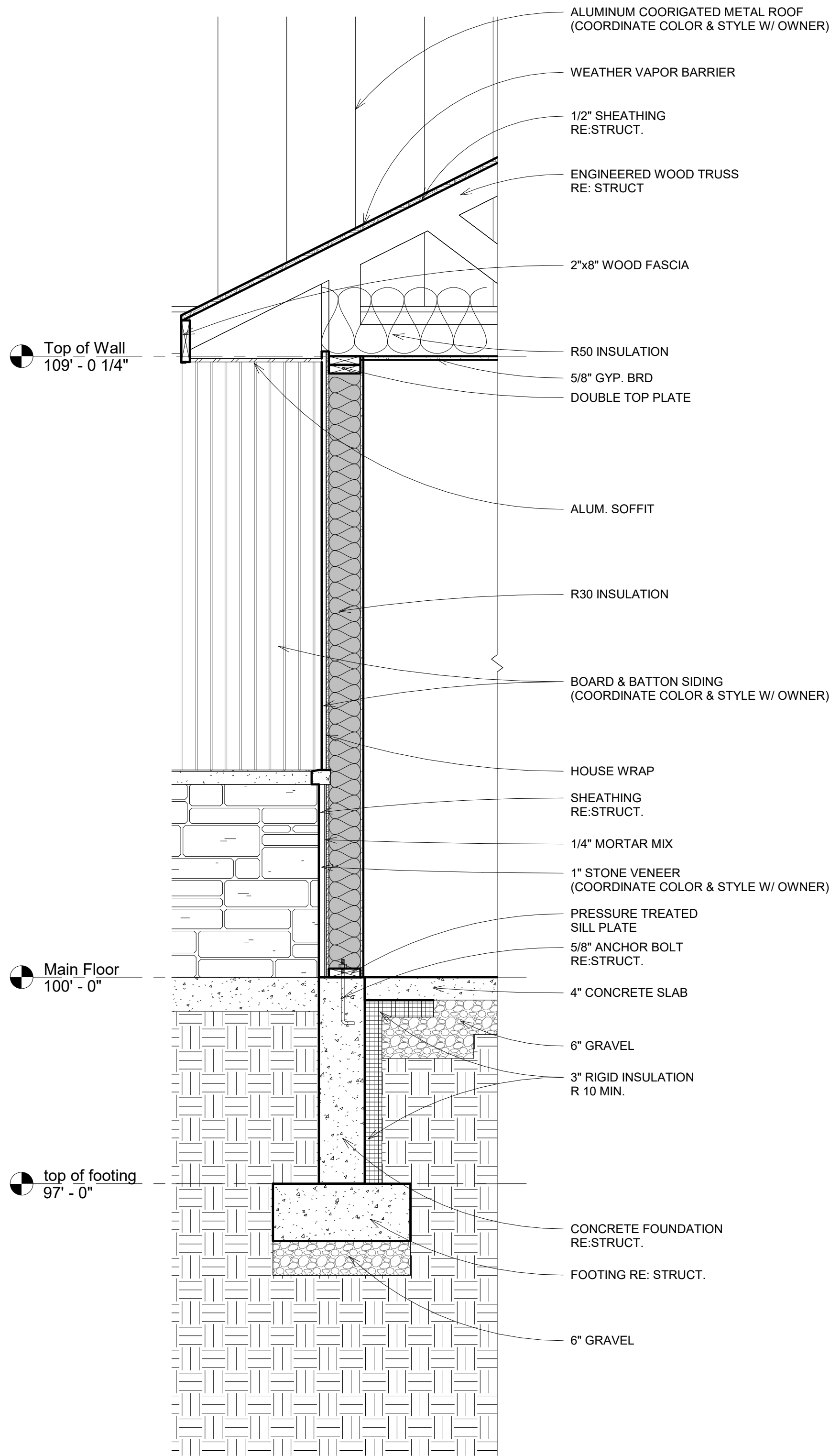
A401

D

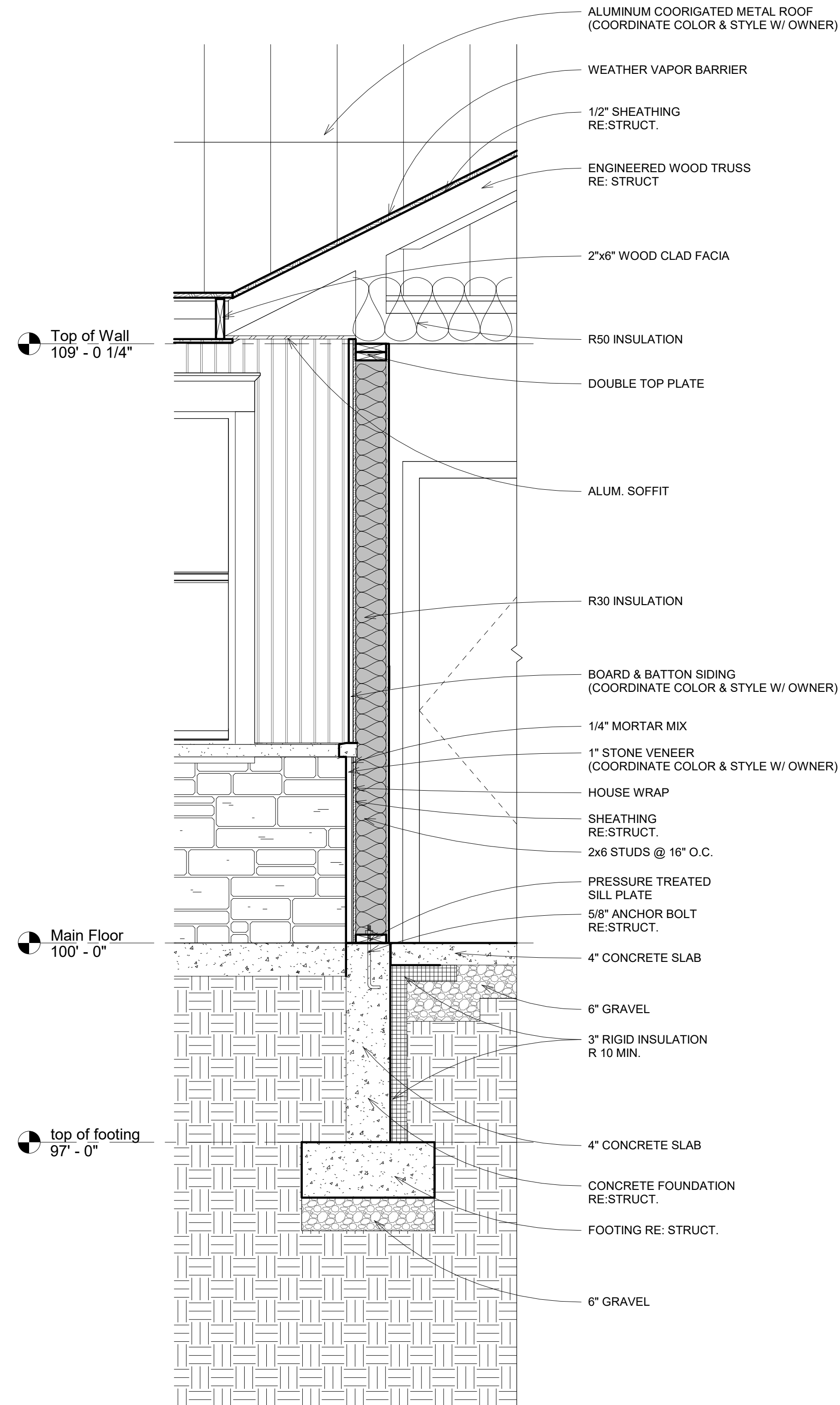
C

B

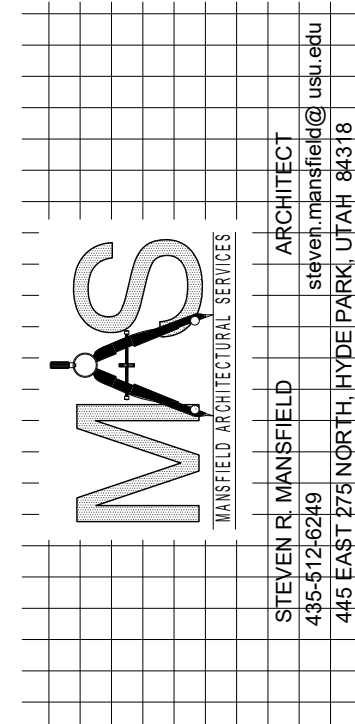
A



1 Building Section "H" - Callout 1
A402 3/4" = 1'-0"



2 Building Section "H" - Callout 2
A402 3/4" = 1'-0"



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

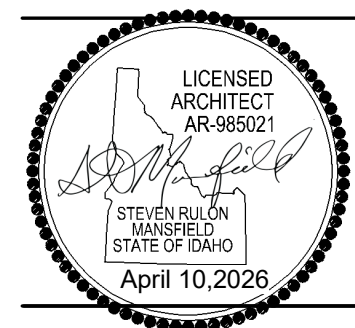
OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

MARK:	DATE:	DESCRIPTION:

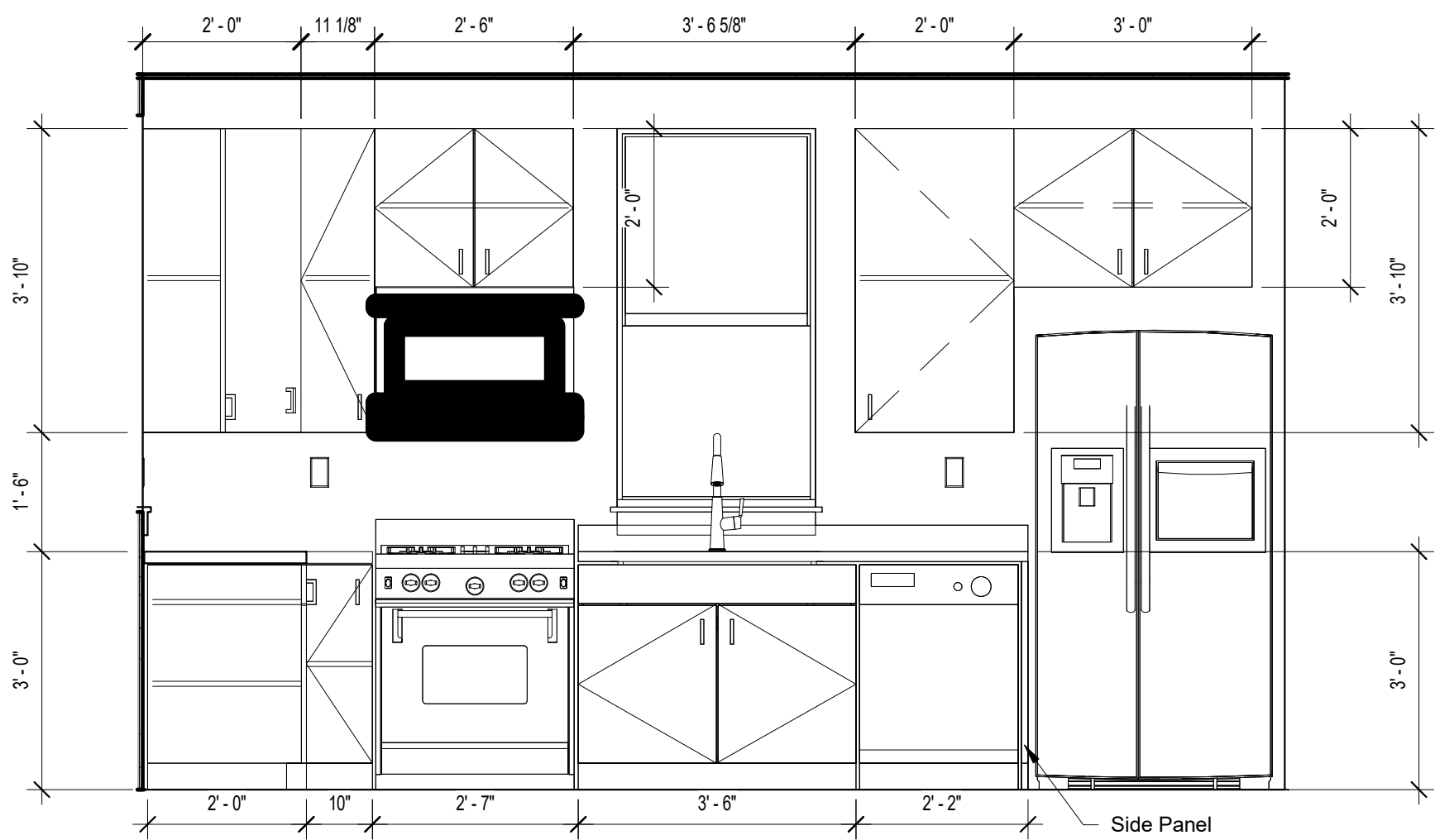
PROJECT
436
DESIGNED
BY: srm
DRAWN
BY: srm
CHECKED BY: srm
ISSUED
7/6/2026



Wall Section
3

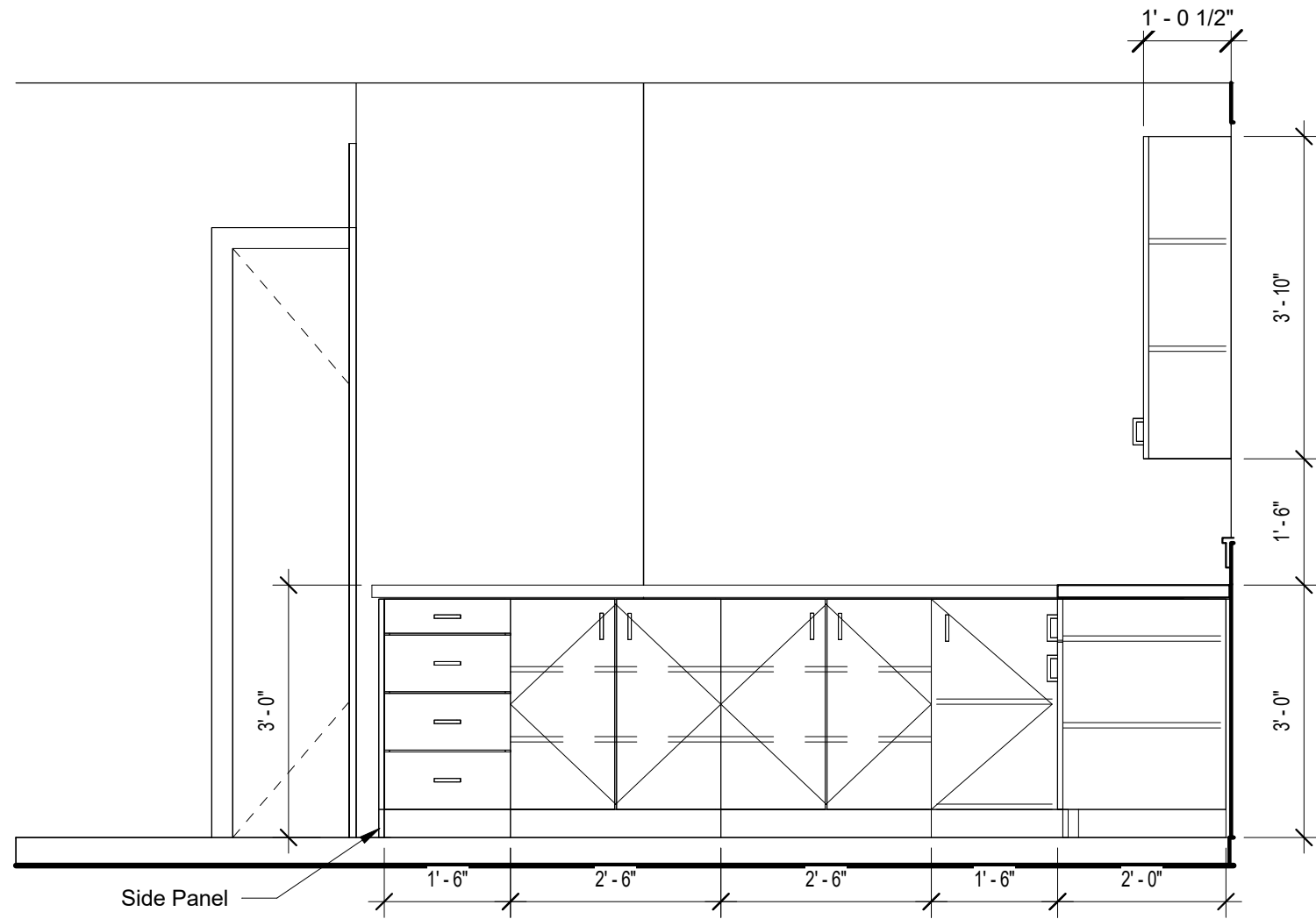
A402

D

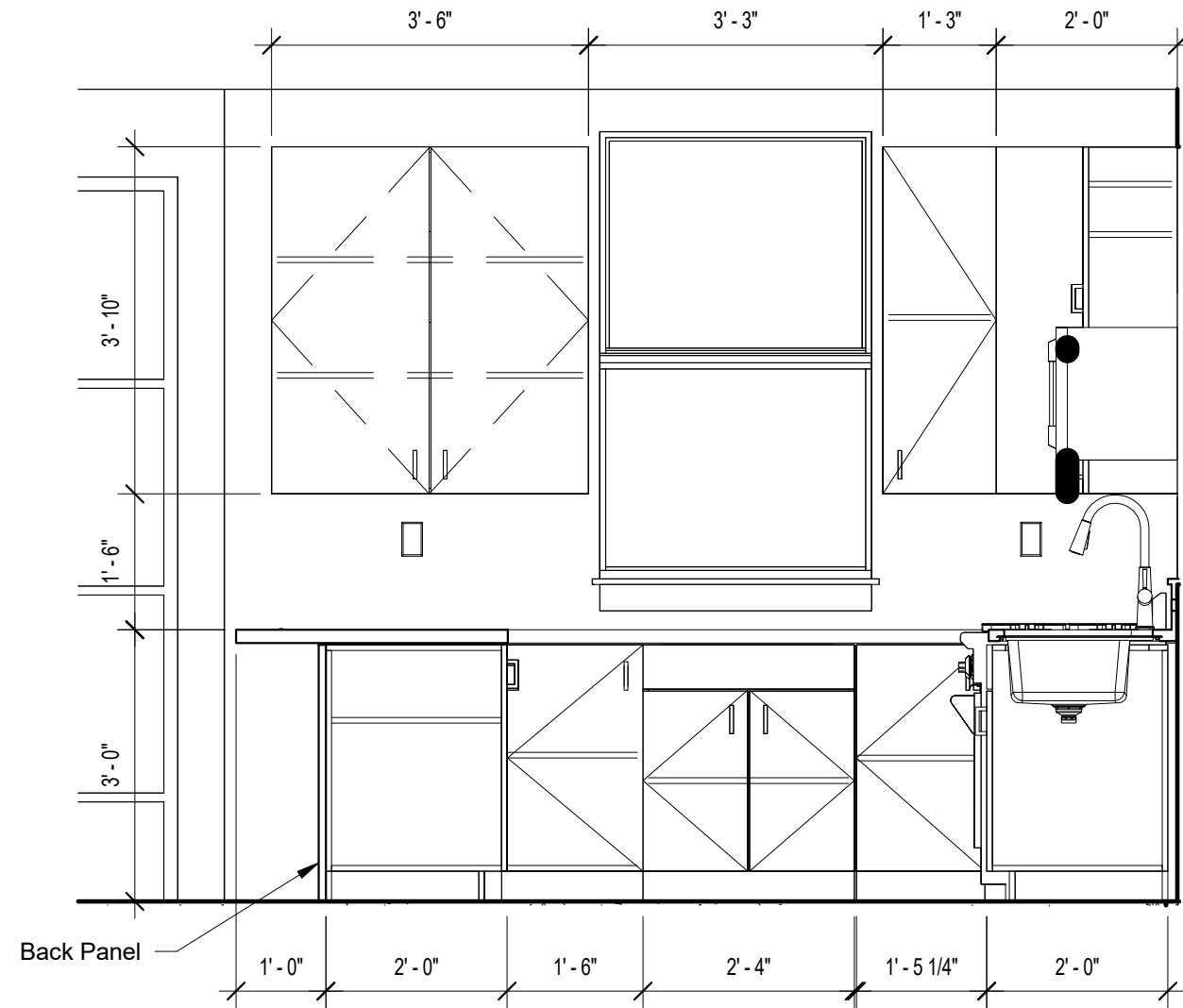


2 Interior Elevation 1
A500 1/2" = 1'-0"

C

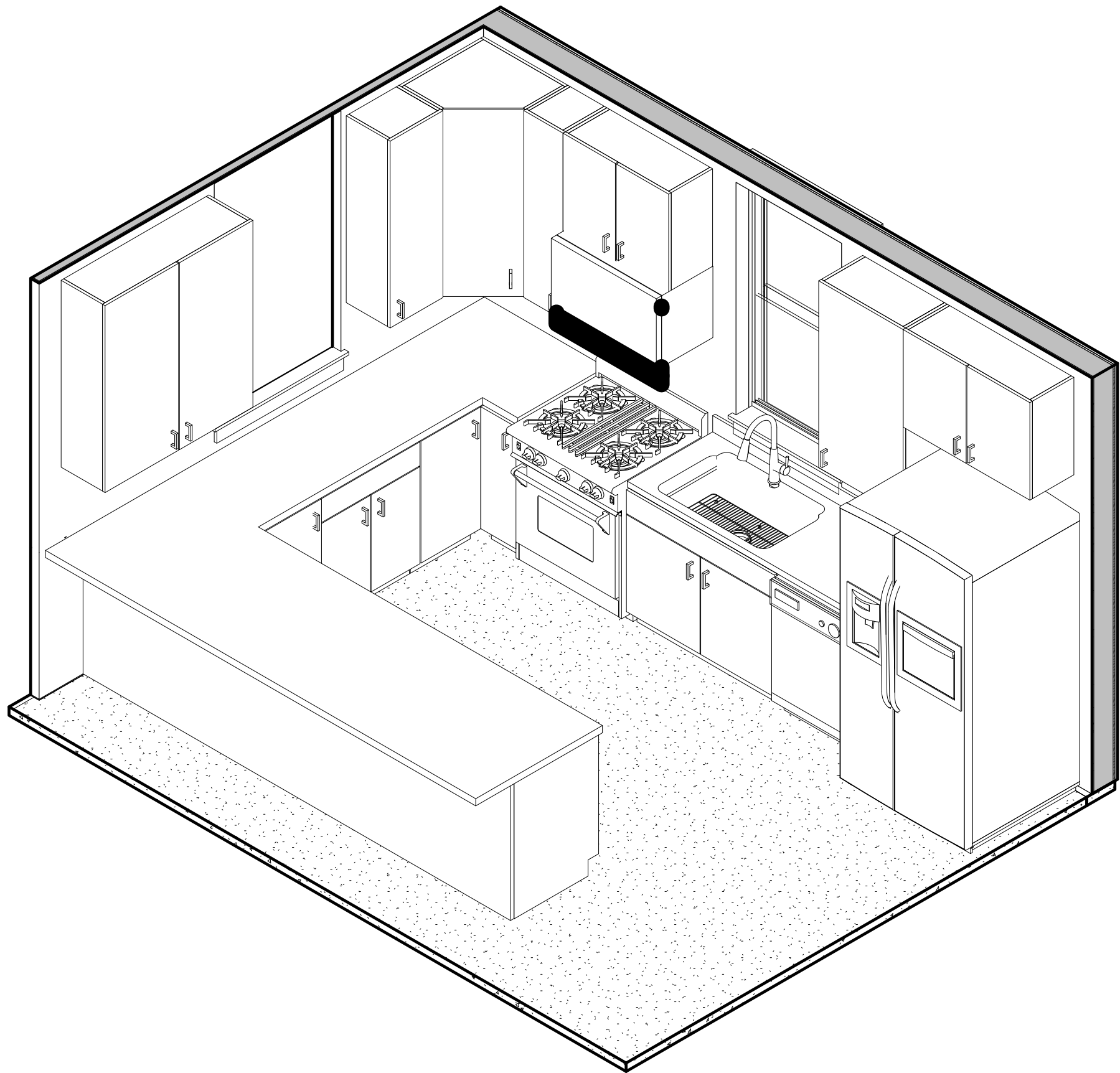


3 Interior Elevation 2
A500 1/2" = 1'-0"



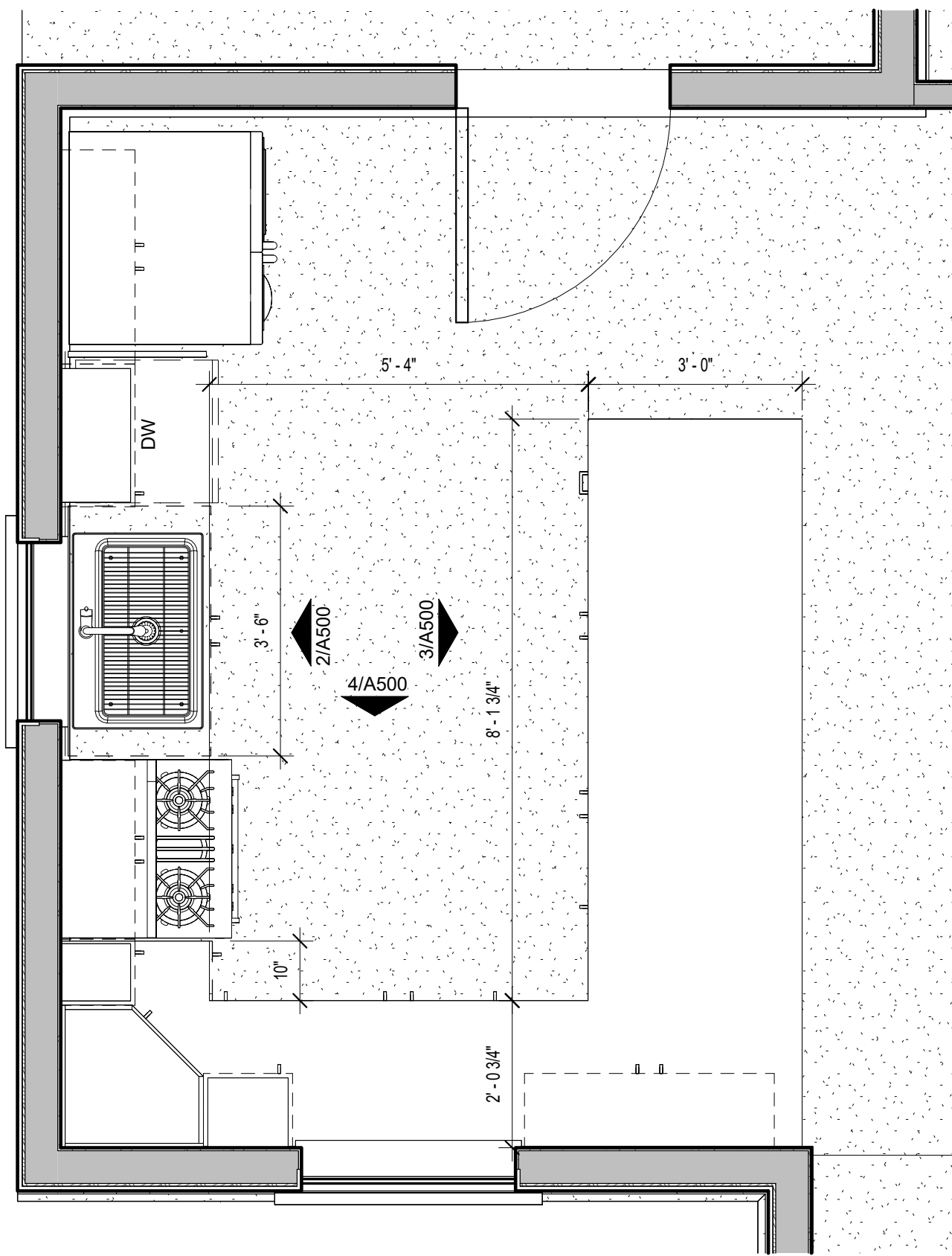
4 Interior Elevation 3
A500 1/2" = 1'-0"

B



5 Kitchen Axon
A500

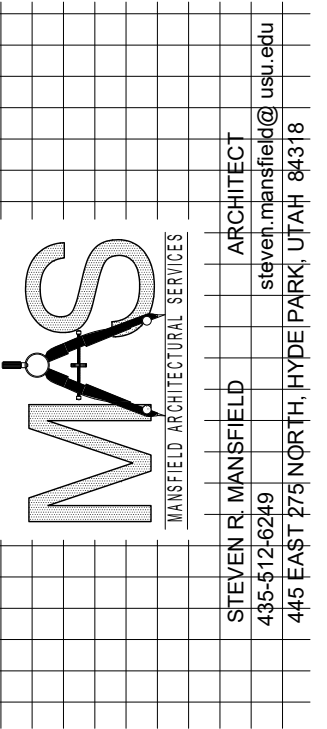
A



1 Enlarged Kitchen Plan
A500 1/2" = 1'-0"

General Note:

1. Field verify all dimensions prior to fabrication and installation of cabinets



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DISCUSSION

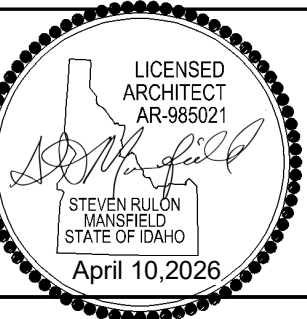
OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

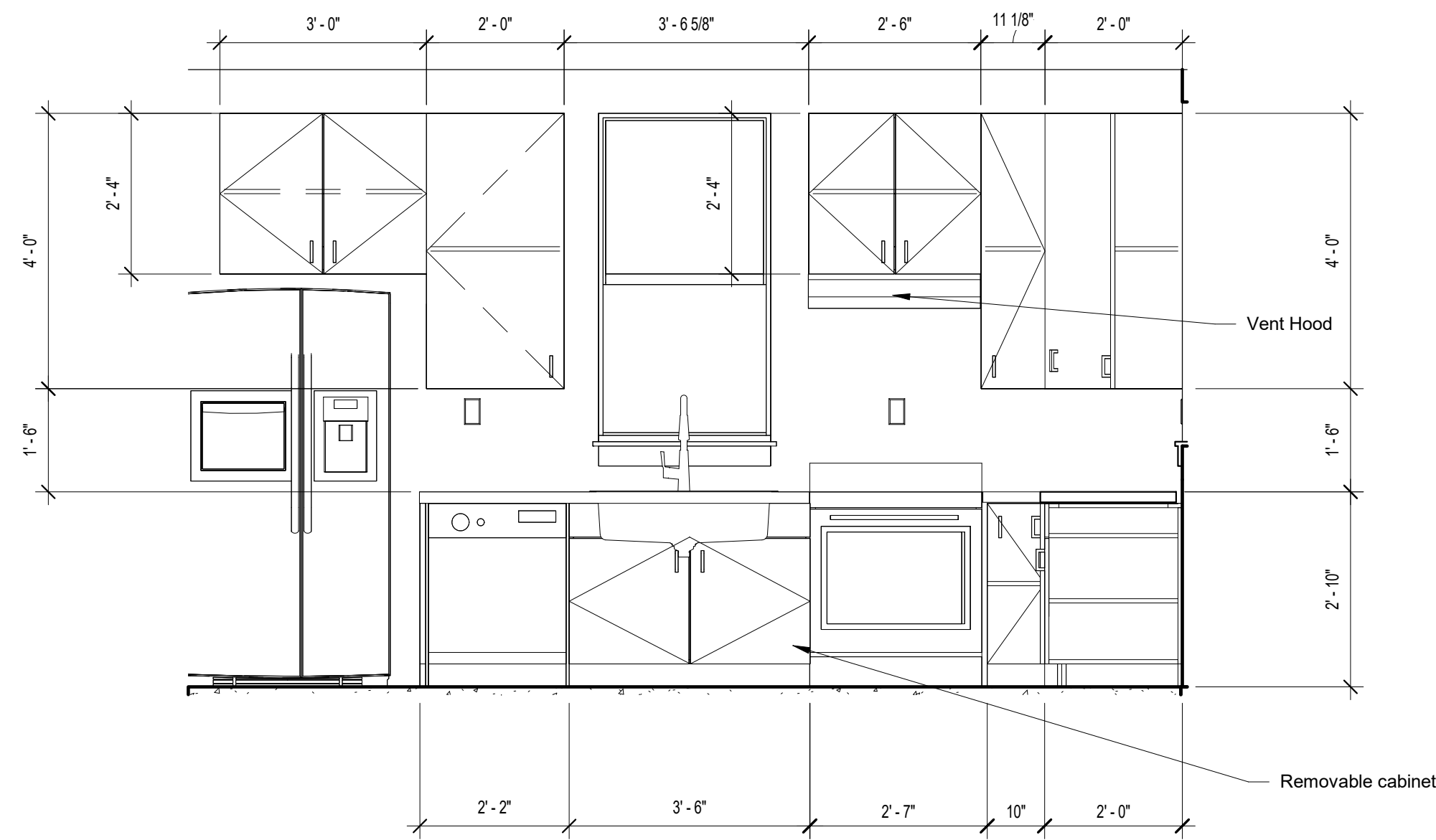
MARK: DATE: DESCRIPTION:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED 7/6/2026

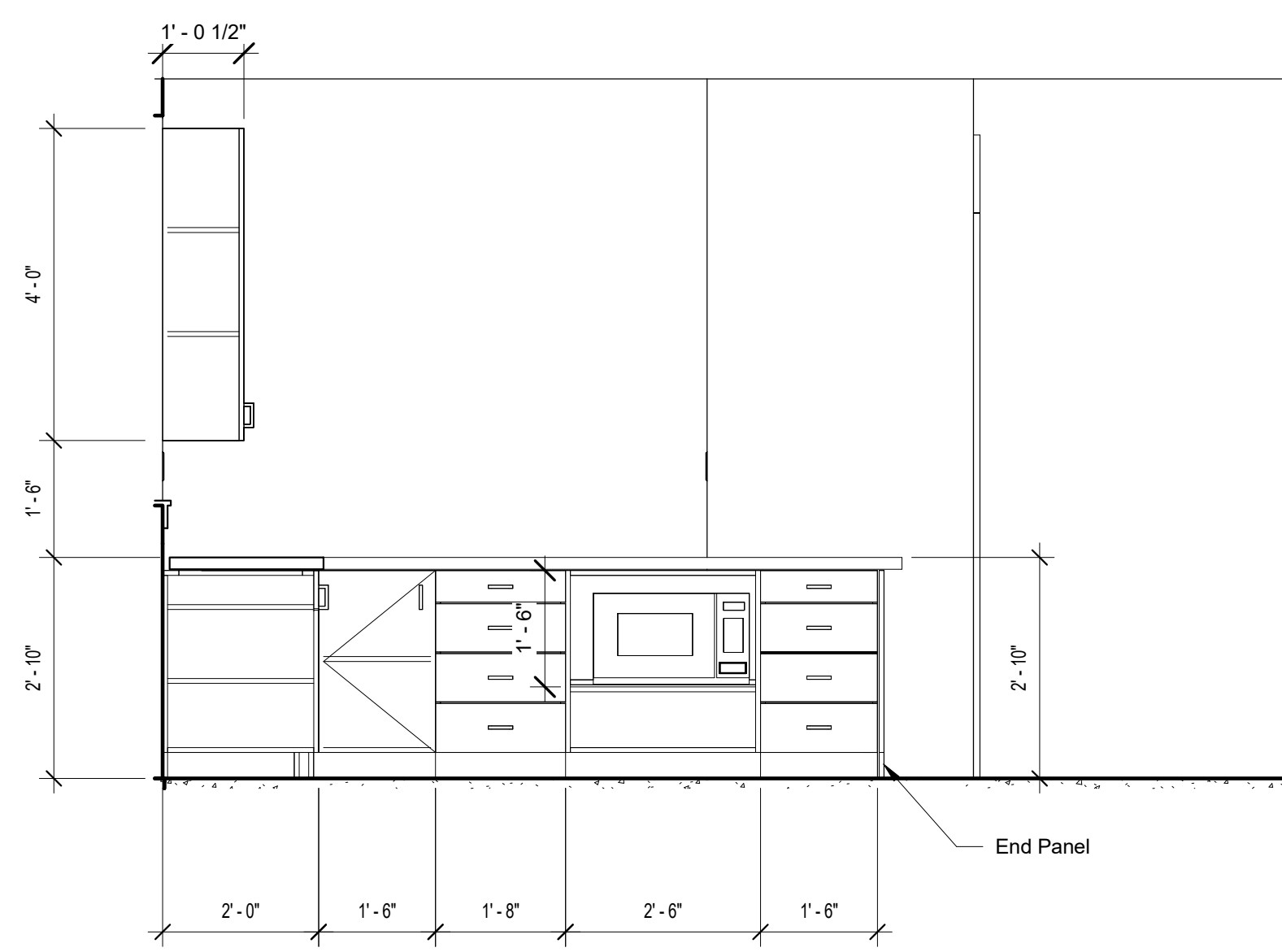


Interior Elevations - Non ADA

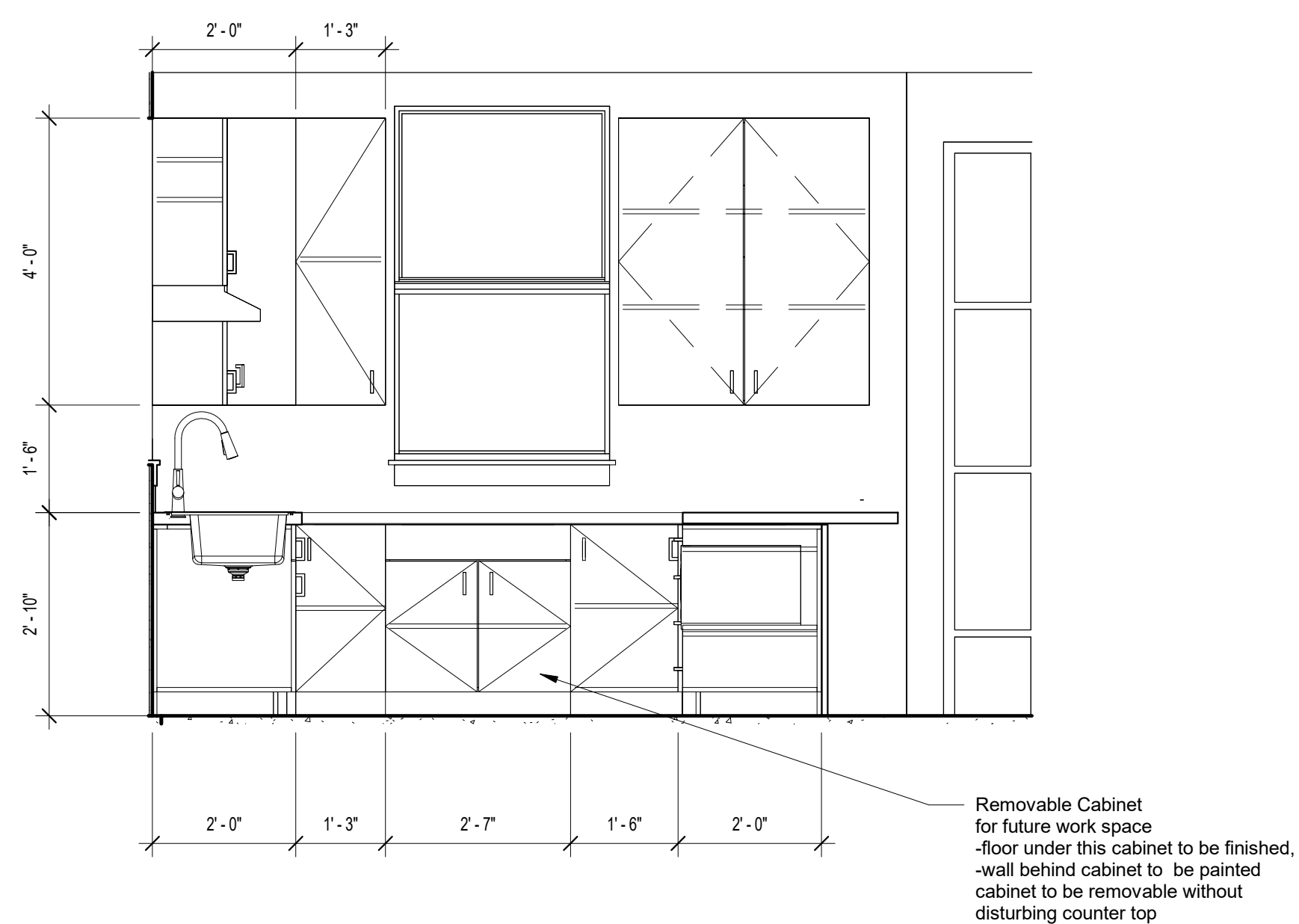
A500



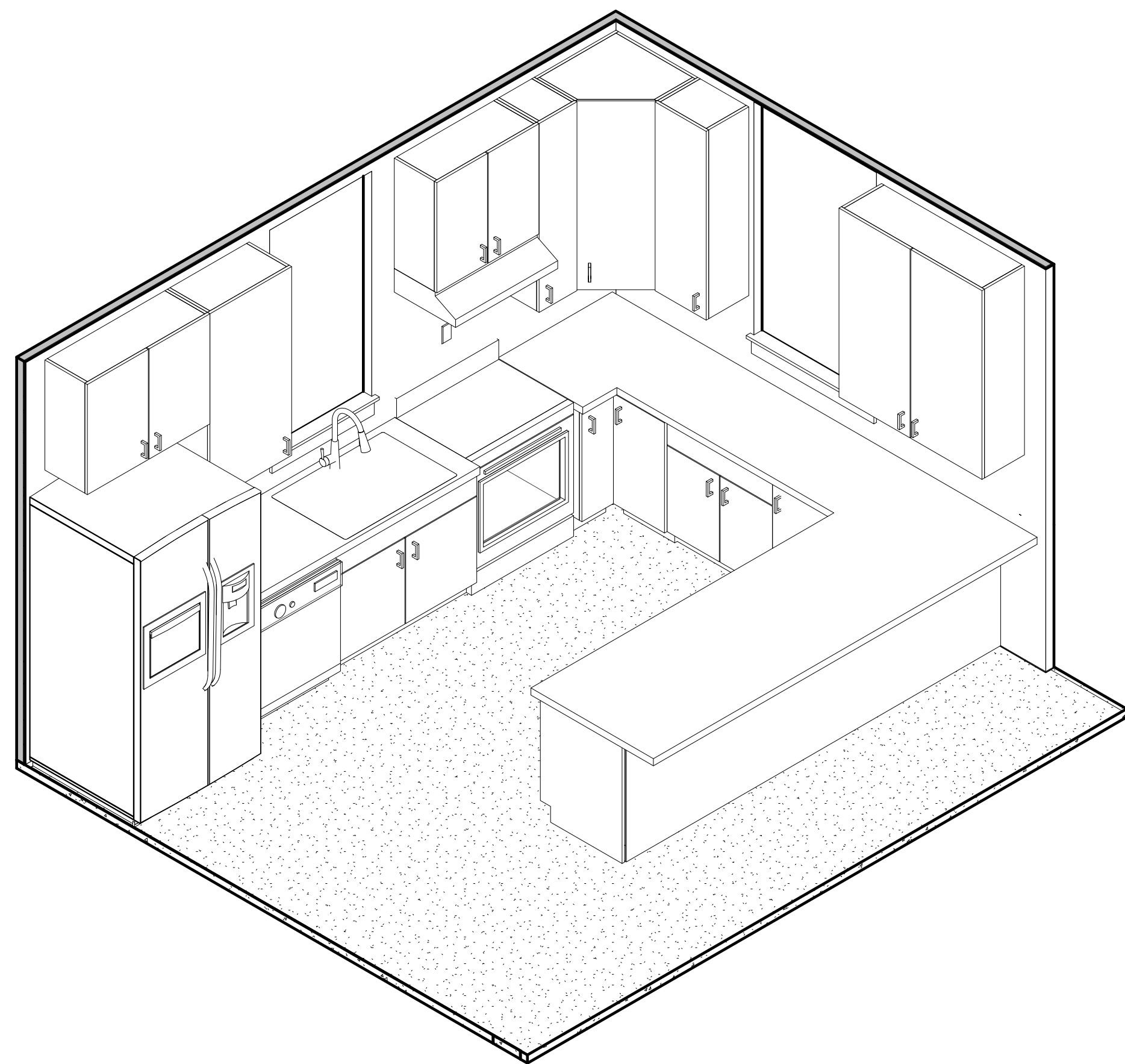
1 Interior Elevation 1 - ADA
A501 1/2" = 1'-0"



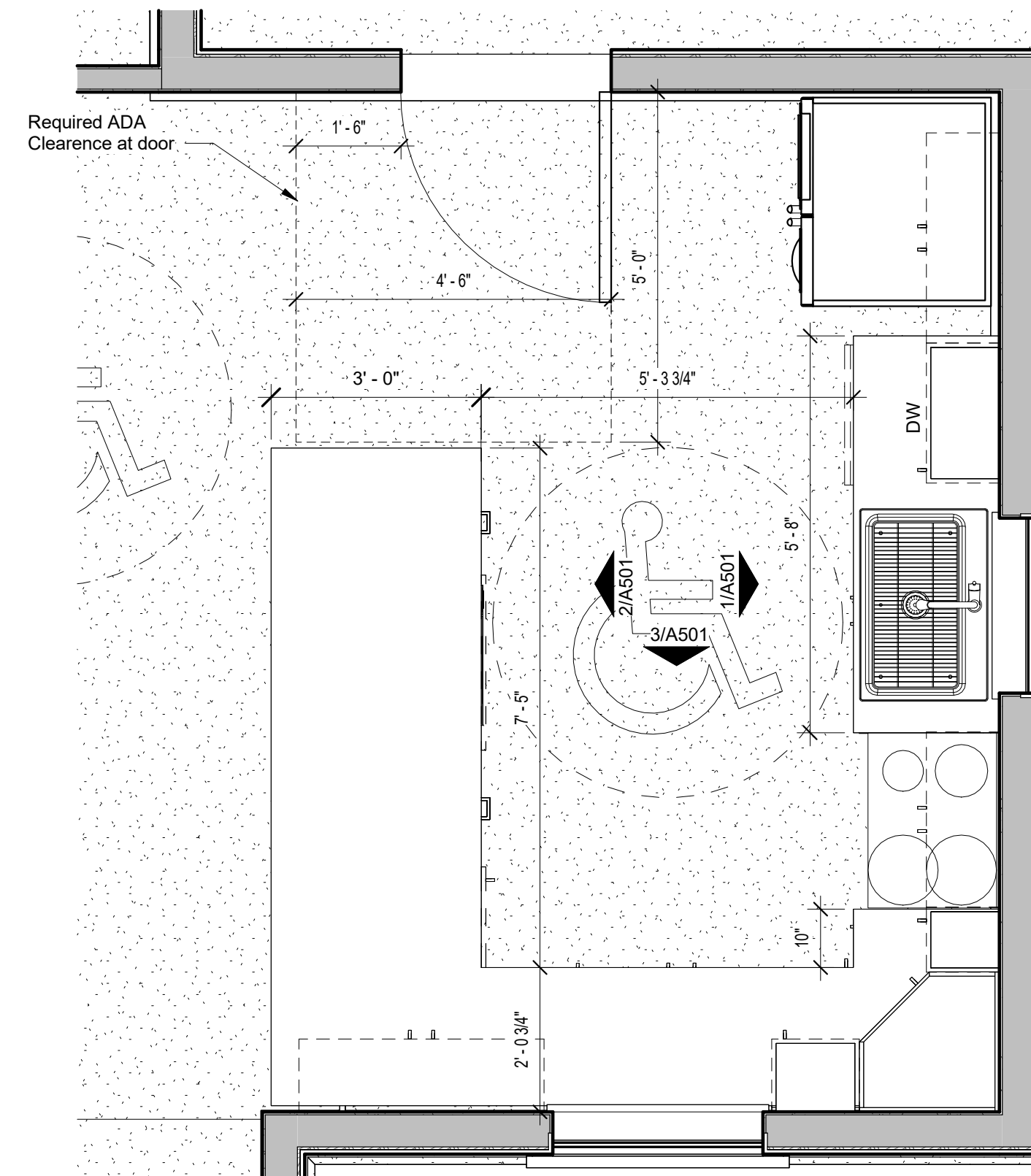
2 Interior Elevation 2 - ADA
A501 1/2" = 1'-0"



3 Interior Elevation 3 - ADA
A501 1/2" = 1'-0"



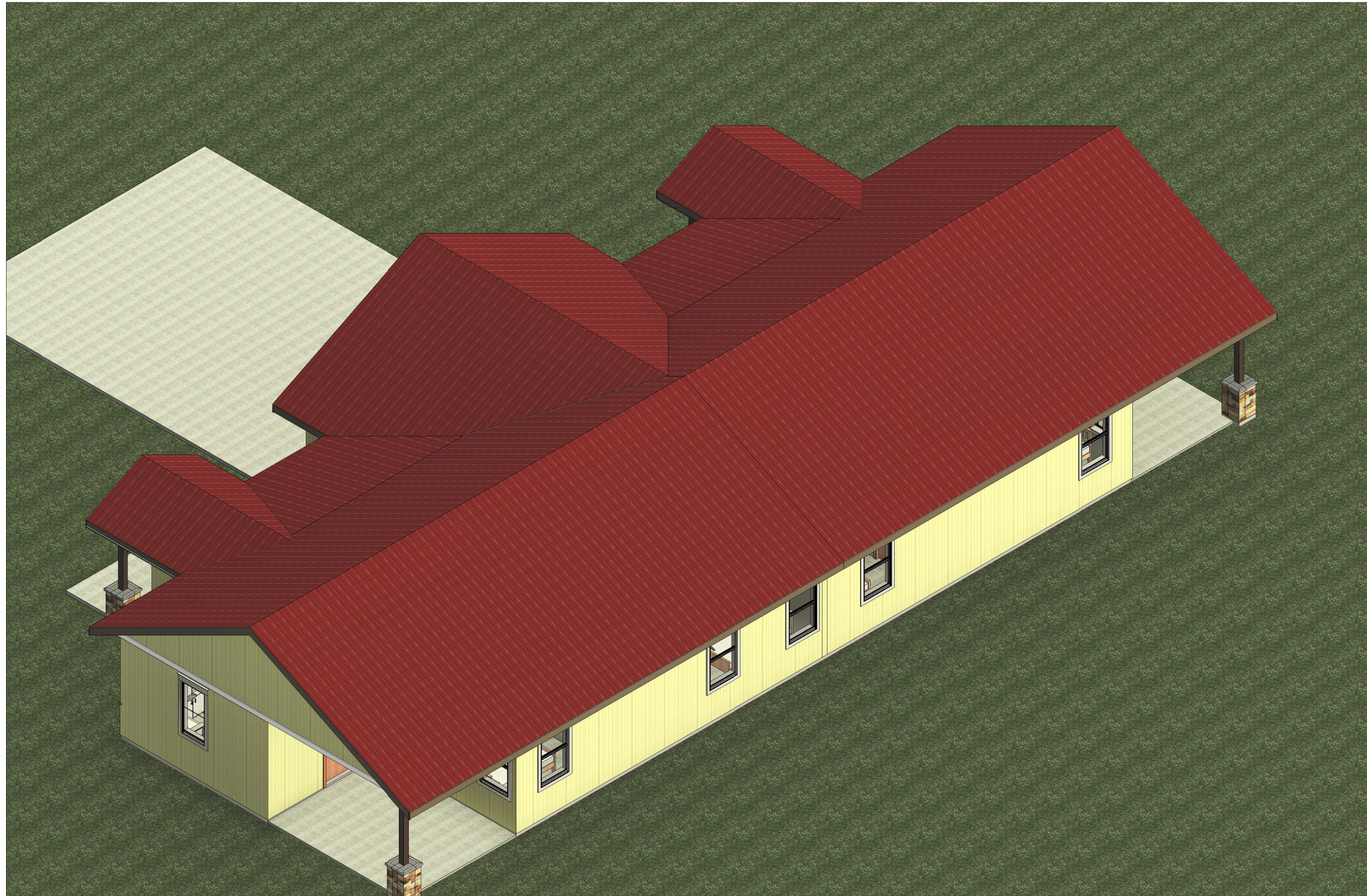
5 ADA Kitchen Axon
A501



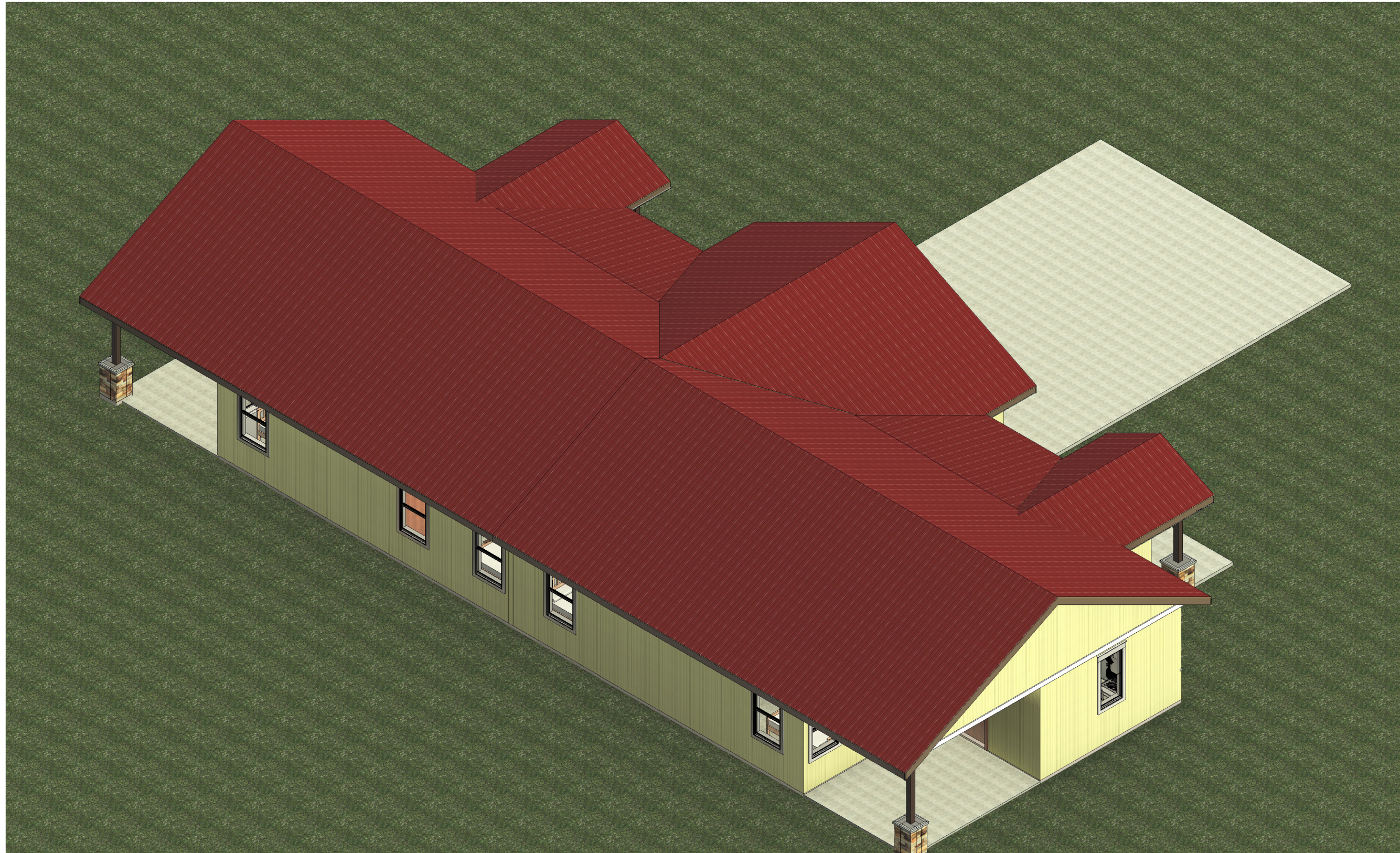
4 Enlarged ADA Kitchen Plan
A501 1/2" = 1'-0"

D

C

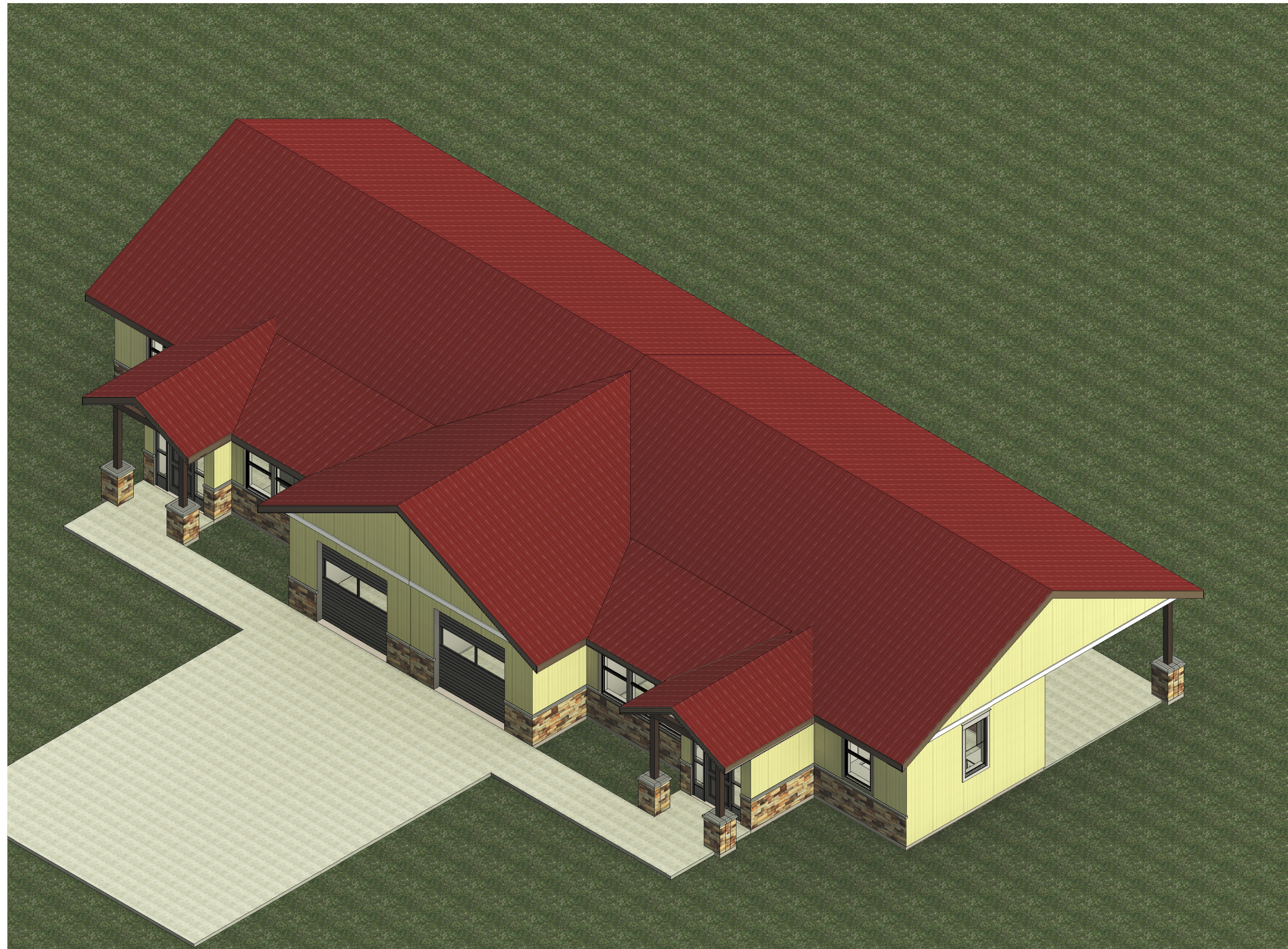


3 Axon 3
A901



4 Axon 4
A901

B

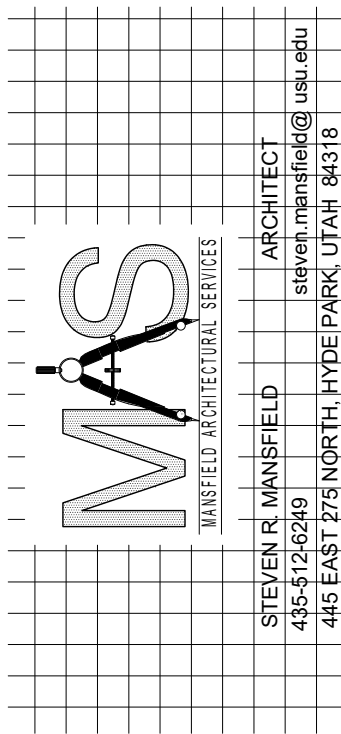


2 Axon 2
A901



1 Axon 1
A901

A



Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

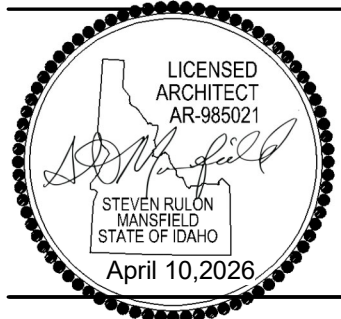
OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

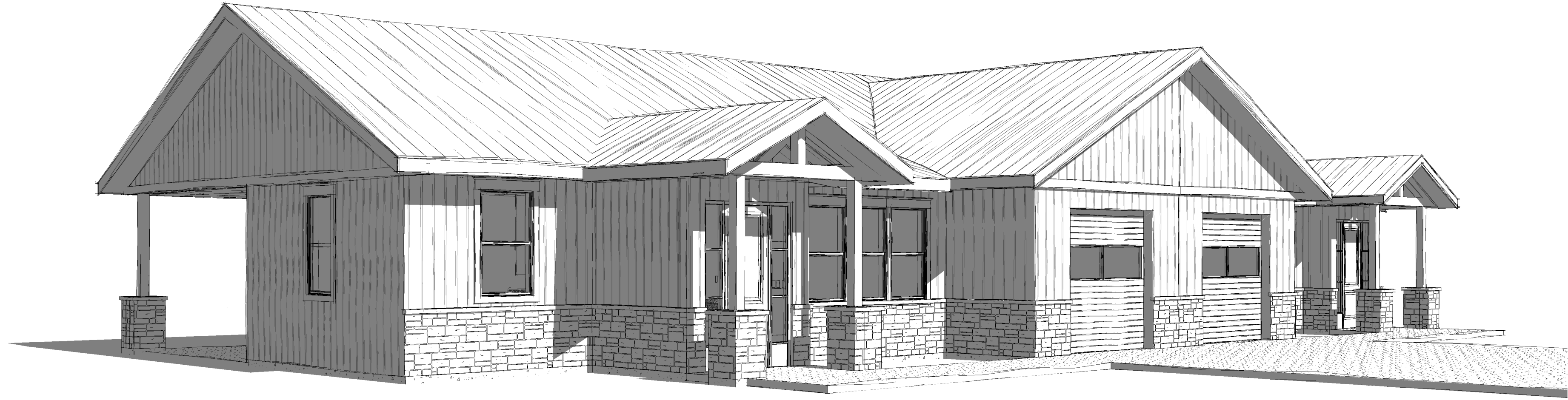
MARK:	DATE:	DESCRIPTION:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
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Axons

A901



1 V1
A902



2 V2
A902

Bear Lake Staff Duplex, IDPR Project #3503261

PROJECT DESCRIPTION

OWNERS NAME State of Idaho

PROJECT ADDRESS

25 East 300 North St. Charles, Idaho 83272

MARK:	DATE:	DESCRIPTION:

PROJECT # 436
DESIGNED BY: srm
DRAWN BY: srm
CHECKED BY: srm
ISSUED : 7/6/2026



3D Views

A902

BEAZER ENGINEERING INC.
P.O. BOX 652
MILLVILLE, UTAH 84326
C 435.770.8999

david@beazer-engineering.com

OWNERSHIP OF DOCUMENTS

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DATE

March 12, 2026

PROJECT TITLE

Idaho State Park House
@Bear Lake
Address'
St. Charles, Idaho

SHEET TITLE

ELECTRICAL
SPECIFICATIONS

PROJECT NUMBER

REVISIONS

SHEET NUMBER

ESP101

PART 3 – EXECUTION

CV. Install wiring devices as indicated, in compliance with manufacturer's written instructions, applicable requirements of NEC and NECA's "Standard of Installation" and in accordance with recognized industry practices to fulfill project requirements.

CW. Coordinate with other work, including painting, electrical box and wiring work, as necessary to interface installation of wiring devices with other work. Install devices in boxes such that front of device is flush and square with coverplate. Drawings are small scale and, unless dimensioned, indicate approximate locations only of outlets, devices, equipment, etc. Locate outlets and apparatus symmetrically on floors, walls and ceilings where not dimensioned and coordinate with other work. Verify all dimensioned items on job site. Consult architectural cabinet, millwork, and equipment shop drawings before beginning rough-in of electrical work. Adjust locations of all electrical outlets as required to accommodate work in area, and to avoid conflicts with walrcoat, back splash, taskboards, and other items.

CX. Install wiring devices only in electrical boxes which are clean, free from excess building materials, dirt, and debris.

CY. Convenience outlets shall be installed flush with the wall surface and firmly mounted. Provide steel washers behind device ears where outlet boxes are recessed from wall surface.

CZ. Install blank plates on all boxes without devices.

DA. Delay installation of wiring devices until wiring work is completed. Delay installation of wall plates until after painting work is completed. Provide separate neutral conductor for each circuit that serves GFI receptacles.

DB. Where dedicated equipment is connected by cord and plug, provide a single receptacle as required by code.

DC. Protection of wall plates and receptacles: At time of substantial completion, replace those items which have been damaged, including those stained, burned and scored.

DD. Grounding: Provide electrically continuous, tight grounding connections for wiring devices, unless otherwise indicated.

DE. Testing: Prior to energizing circuitry, check wiring devices for electrical continuity and proper polarity connections. After energizing circuitry, test wiring devices to demonstrate compliance with requirements

END OF SECTION 26 0140

SECTION 26 0420 – SERVICE ENTRANCE

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division–1 Specification sections, apply to work of this section.

B. Division–26 Basic Materials and Methods sections apply to work specified in this section.

1.2 DESCRIPTION OF WORK

C. Extent of service-entrance work is indicated by drawings and schedules.

D. Switchboards, panels, disconnects, transformers, etc., used for service-entrance equipment are specified in applicable Division–26 sections, and are included as work of this section.

E. Consult local utility relative to all costs for line extensions, connections, etc., and include all costs for bringing service to the facility in base bid. Confirm location of point of service before bidding.

F. Provide labor and materials as required to accomplish power company metering in accordance with power company standards and requirements.

G. Provide concrete pads or vaults of size and type required for service transformers including any utility required primary conduit stub outs. Verify location, size, openings, reinforcing requirements with local utility before beginning work. Comply with local utility clearance requirements. Location of pads shown on the drawings are approximate only.

1.3 QUALITY ASSURANCE

H. Comply with NEC and NEMA standards as applicable to construction and installation of service-entrance equipment and accessories. Provide service-entrance equipment and accessories which are UL-listed and labeled, and equipment marked, "Suitable for use as Service Equipment".

1.4 SUBMITTALS

I. Product Data: Submit manufacturer's data on service-entrance equipment and accessories.

J. Shop Drawings: Submit dimensioned layouts of service-entrance equipment and spatial relationships to proximate equipment.

K. Maintenance Stock, Fuses: For types and ratings required, furnish additional fuses, amounting to one unit for every 2 installed units, but not less than one unit of each.

PART 2 – PRODUCTS

2.1 SERVICE – ENTRANCE EQUIPMENT

L. General: Provide service-entrance equipment and accessories of types, sizes, ratings and electrical characteristics indicated, which comply with manufacturer's standard materials, design and construction in accordance with published product information, and as required for complete installation, and as herein specified. Each service disconnect shall be marked to identify it as a service disconnecting means. Where more than one service disconnect is used, all disconnects shall be labeled as required by NEC.

2.2 OVERCURRENT PROTECTIVE DEVICES

M. General: Provide overcurrent protective devices as indicated on drawings.

N. Meter Sockets and Current Transformer cabinets: Provide meter sockets and current transformer cabinets which comply with requirements of local utility company supplying electrical power to service-entrance equipment of building project.

2.3 RACEWAYS AND CONDUCTORS

O. General: Provide raceways and conductors complying with applicable Division–26 Basic Materials and Methods sections.

P. Wall and Floor Seats: Provide wall and floor seats complying with Division–26 Basic Materials and Methods section "Raceways".

PART 3 – EXECUTION

3.1 INSTALLATION

Q. Provide and install an electric service to the facility as shown on the drawings and specified herein. The electrical contractor shall be responsible for any cost assessed by the serving utility to provide an electric service as shown on the plans and/or specified herein.

R. The service metering shall be as per the local power company or as specified herein.

S. Construction Lighting and Power shall be arranged for as specified under the General Conditions.

T. Before purchase of any service entrance equipment, the contractor shall review with the power company the proposed service as shown on the drawings and the probable date when the service connection from the power company will be needed.

U. Transformer Pad: The electrical contractor shall be responsible to confirm the transformer pad & specifications, and clearance from other equipment and structures with the serving power company before beginning installation.

V. Installation of Service-entrance Equipment: Install service-entrance equipment as indicated, in accordance with equipment manufacturer's written instructions, and with recognized industry practices, to ensure that service-entrance equipment fulfills requirements. Comply with applicable installation requirements of NEC and NEMA standards.

W. Coordinate with other work, including utility company wiring, as necessary to interface installation of service-entrance equipment work with other work.

X. Install all floor standing service equipment on 4" high concrete curb and bolt equipment to curb with 5/8" anchors at each corner and at intervals not to exceed 48" along perimeter. Install wiring trench under floor standing equipment; 12" deep, and 4" wider in length and width than equipment base. Install grounding bushings on conduits penetrating trench.

Y. Grounding: Provide system and equipment grounding and bonding connections for service-entrance equipment and conductors, as required.

Z. Adjust and clear: Adjust operating mechanisms for free mechanical movement.

AA. Touch-up scratched or marred enclosure surfaces to match original finishes.

AB. Provide a neutral from the service transformer to all main service disconnects including 3 phase service disconnects for motor circuits whether or not they are shown on the drawings.

AC. Provide bonding bushings on all conduits.

AD. Field Quality Control: Upon completion of installation of service-entrance equipment and electrical circuitry, energize circuitry and demonstrate capability and compliance with requirements. Where possible, correct malfunctioning units of site, then retest to demonstrate compliance; otherwise, remove and replace with new units, and proceed with retesting.

END OF SECTION 26 0420

SECTION 26 0452 – GROUNDING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

AE. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division–1 Specification sections, apply to work of this section.

AF. Division–26 Basic Materials and Methods sections apply to work specified in this section.

1.2 DESCRIPTION OF WORK

AG. Provide grounding as specified herein, and as indicated on drawings.

AH. Types of grounding in this section include the following:

- Underground metal water piping
- Metal building frames
- Grounding electrodes
- Grounding rods
- Service equipment
- Enclosures
- Systems
- Equipment
- Other items indicated on drawings

AI. Requirements of this section apply to electrical grounding work specified elsewhere in these specifications.

1.3 QUALITY ASSURANCE

O. Comply with NEC as applicable to electrical grounding and ground fault protection systems. Comply with applicable ANSI and IEEE requirements. Provide products which have been UL listed and labeled.

1.4 SUBMITTALS

CL. None required.

PART 2 – PRODUCTS

2.1 GROUNDING

OK. Materials and Components: General: Except as otherwise indicated, provide each electrical grounding system as specified herein, and as shown on drawings, including but not necessarily limited to, cables/wires, connectors, terminals (adhesive lugs), grounding rods/electrodes and plate electrodes, bonding jumper braid, and other items and accessories needed for complete installation.

OL. Where Materials or Components are not otherwise indicated, comply with NEC, NEMA and established industry standards for applications indicated.

OM. Electrical Grounding Conductors: Unless otherwise indicated, provide electrical grounding conductors for grounding connections matching power supply wiring materials and sized according to NEC.

ON. Ground Rods: Steel with copper welded exterior, 3/4" dia x 10'.

OO. Footing Ground: Install 20 ft. of #4 bare copper wire in footings and connect to footing rebar.

PART 3 – EXECUTION

3.1 GENERAL

SECTION 26 0001 – ELECTRICAL GENERAL PROVISIONS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. The general provisions of the Contract, including the Conditions of The Contract (General, Supplementary and other conditions) and Division One apply to the work specified in this Section.
- B. This Section 260001 is a part of all other Sections of this Division 26.
- C. It is understood that Division 26 shall govern and be the direct responsibility of the Electrical Contractor, who shall comply with the specifications and the accompanying drawings to describe and provide for the furnishings, delivering, installing, testing and placing in satisfactory and successful operation all equipment, materials, devices, and necessary appearances to provide a complete electrical system for lighting, power and auxiliaries, together with such other equipment and devices furnished and installed under other contracts which shall be wired and connected under this contract.
- D. If a discrepancy occurs between the equipment supplied and the intent, or function of the equipment, catalog numbers, discontinued products, drawings, specifications, etc., the Contractor shall bring this to the attention of the Architect or Engineer in writing prior to bidding. Failure to report any conflict does not relieve the Contractor from meeting the intent of the contract documents nor shall it change the contract cost. It shall further be understood that if the contractor is unable to interpret any part of the plans and specifications, or should he find discrepancies therein, he shall call attention of the fact to the Architect prior to bid date. The Architect will issue additional instructions to Bidders before the project is bid.
- E. State Licensed Contractor – All contractors shall have a current state contracting license for the trade engaged in.

1.2 DESCRIPTION OF WORK

- F. The work covered by these specifications consists of furnishing all labor, materials, equipment, supervision and service necessary for the proper completion of all electrical work shown on the drawings and hereinafter specified. Items shown or described in either the drawings or specifications and/or all items necessary to make the electrical system complete and workable shall be understood to form a part of the work.

- G. The main items of work are enumerated below. The work shall include but is not necessarily limited to the following items:
1. Lighting, convenience and power outlets.
 2. Light fixtures, lamps and associated equipment.
 3. Power service and distribution.
 4. Connection of motors, appliances and owner-furnished equipment.
 5. Connections to equipment not supplied in this contract.
- H. Work and materials not included under this Section:
6. Supply of heating and ventilation control equipment unless noted on the electrical drawings. See mechanical drawings for division 26 requirements.

1.3 VISITING SITE

- J. Visit the site during the bidding period to determine existing conditions that will affect the electrical and other work as it pertains to the construction of this structure. All costs arising from site conditions and/or preparation shall be included in the base bid. No additional charges will be allowed due to inadequate site inspection.

1.4 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS

- K. At the time of bidding, contractor shall familiarize himself with the drawings and specifications of this project. Any questions, misunderstandings, conflicts, deletions, etc., shall be submitted to the Architect in writing for clarifications prior to issuance of the final addendum and bidding of the project. After signing the contract, the contractor shall meet the intent, purpose, and function of the contract documents, and any costs of materials, labor, and equipment arising therefrom, to make each system complete and operable, shall be paid by the contractor, which shall not result in any change in contract cost.
- L. At the time of bidding, the electrical contractor shall be responsible to coordinate with the general contractor regarding any references to other divisions or trades on the electrical drawings or specifications.

1.5 DRAWING INTERPRETATION

- M. The electrical contractor shall refer to the architectural and/or mechanical drawings for exact placement of all electrical equipment. The electrical drawings unless specifically dimensioned are to be considered diagrammatic and are not to be scaled for placement of equipment.

1.6 CODES-REGULATIONS AND PERMITS

- N. In the installation of this work, comply in every way with the requirements of the laws, ordinances and rules of the State and National Board of Fire Underwriters, The National Electrical Code, and the rules and regulations of local ordinances.
- O. If a conflict occurs between these rules and this specification, the rules are to govern. Accept this condition upon submitting bid, and no extra charge will be allowed after the electrical contract is awarded. This shall not be construed as relieving the Contractor from complying with any requirements of the plans or specifications which may be in excess of requirements of the hereinbefore mentioned rules and not contrary to same. All materials and equipment installed, including lighting fixtures, shall have been tested and approved by Underwriter's Laboratory and shall be so labeled.

- P. All fees shall be included in the contract price. The Contractor shall furnish a certificate of approval to the Architect from the Inspection Authority at completion of the work.

1.7 SUPERVISION

- Q. Workmanship shall be neat, have a good mechanical appearance and conform to the best electrical construction practices. A competent superintendent shall be in charge of the work at all times. Any person employed and found incompetent shall be removed at once and replaced by someone satisfactory when requested by the Architect. All work shall be carried out under the direction of the Architect to fulfill the true intent and meaning of the drawings and specifications. Only licensed master journeyman craftsmen may be engaged in this project, except apprentice electricians may be used on not more than a 1:1 ratio with the total number of master or journeyman electricians.

1.8 FIELD DESIGN CHANGES

- R. No field changes, additions, or locations shall be made without written approval.
- S. Current red line drawings must be on site at all times.

1.9 SHOP DRAWINGS

- T. It is understood that, before the manufacture or installation of any equipment under this contract is carried forward, shop drawings of such work shall be submitted for review. It is the responsibility of the electrical contractor to check the shop drawings for detailed compliance with the contract documents. Prior to submitting the drawings for review, verify that all dimensions, contract document requirements, listed voltages, and correlation of job site have been checked. The electrical contractor shall indicate any corrections to the shop drawings or any exceptions to the contract document requirements, by notation on the shop drawings and by cover letter. IF THIS IS NOT DONE THE DRAWINGS WILL BE RETURNED. At least eight (8) catalog sheets or shop drawings shall be submitted in ample time, no work being executed until each review has been completed.

- U. Verification of Contract Document Requirements. The Electrical Contractor shall be required to furnish shop drawings with the contract document requirements high-lighted to verify they have been checked. Items to be high-lighted include, but are not limited to:

1.10. Electrical Panels

- a. Panel number or designation
- b. Panel type
- c. Phase
- d. Voltage
- e. Flush or surface
- f. Main lug amps
- g. Main breaker amps
- h. Fault current capacity
- i. Branch circuit breakers

19. Lighting fixtures: items on the shop drawings that correlate to all items shown on the fixture schedule.
- j. All items in catalog number
 - k. Fixture mounting
 - l. Lamp type

- W. The review of shop drawings by the engineer is only to determine if they are in general compliance with the information given in the contract documents, and serves to determine the contractors understanding of the design concept. If some errors are detected but others are overlooked during the review this does not grant the contractor permission to proceed in error. Regardless of any information contained in the shop drawings, the requirements of the contract documents must be followed and are not waived or superseded in any way by the shop drawing review.

- X. The following shop drawings are required within 20 days after signing of the contract.

20. Panelboards
21. Disconnects
22. Lighting fixtures (coordinate with ceiling contractor)
23. Wiring Devices

- Y. One month after the contract is signed, bind and numerically index four (4) complete sets of all shop drawings and submit to the mechanical contractor for inclusion in the operation and maintenance manual. Each unit type shall have its own individual catalog sheet giving characteristics, data, dimensions, catalog numbers and parts lists. (Example: If two items of equipment A & D appear on the same sheet, an individual sheet shall be provided for each unit specification.) The manual shall be numerically indexed with an index sheet explaining the contents of each section.

1.10. GUARANTEE

- Z. The entire electrical system installed under this contract shall be left in proper working order and be in compliance with the drawings, specifications and/or authorized changes to the satisfaction of the Owner's Representative. Without additional charge, replace any work or materials which develop defects, except from ordinary wear and tear, within one year from the date of final acceptance. Exception: Incandescent and fluorescent lamps which shall be guaranteed for a period of two months from acceptance of the installation by the Owner or his agent. A written guarantee covering the above provisions shall be signed and delivered to the Architect after the project has final acceptance by the inspecting Authority.

PART 2 – PRODUCTS

2.1 SPECIFIED PRODUCTS

- AA. The contractors under this division shall thoroughly familiarize themselves with all specified products and their application relating to their work. Any objections to the use of any specified product shall be submitted to the architect in writing prior to bidding.

2.2 MATERIALS AND WORKMANSHIP

- AB. All materials and equipment furnished and installed shall be of high quality, new, and meet the standards of NEMA, IPCA, UL, UL, NFPA, IEC, UOCHA, NEC, and shall bear their label wherever standards have been established and label service is available. Where materials and equipment are specified by manufacturer's name, the type and quality required is thereby denoted. The Architect shall be afforded every facility, deemed necessary to inspect and examine the materials and apparatus being installed to prove their quality, skill and competency of workmanship.

2.3 SUBSTITUTIONS

- AC. The equipment specified carries brand names and catalog numbers and shall be interpreted as establishing a standard of quality unless otherwise noted. Substitutions will be considered if a duplicate written application (2 copies) is at the offices of the Architect and Engineer at least four (4) working days prior to issue of the final addendum. The application shall include the following: 1) A statement declaring the equipment proposed is equal to that specified by having the same

- include the following: 1) A statement declaring the equipment proposed is equal to that specified by having the same physical characteristics and dimensions and meet the drawings layout and structural conditions as well as load requirements 2) The specified and submittal catalog numbers of the equipment under consideration; 3) A pictorial and specification brochure.

- AD. Any conflict arising from the use of substituted equipment shall be the responsibility of the contractor, who shall bear all costs required to make the equipment comply with the intent of the plans and specifications.
- AE. At the option of the Architect, samples may be required for non-standard or substituted items before installation during construction.
- AF. No materials or apparatus shall be substituted after the bid opening except where the equipment manufacturer has been discontinued or delivery becomes a problem, then written approval of the Architect is required.
- AG. Bidding – only equipment specified in the contract documents and/or approved by an addendum will be used in the base bid.

PART 3 – EXECUTION

3.1 PROGRESS AND COORDINATION OF WORK

- AH. The electrical work shall be laid out in advance of construction to eliminate unnecessary cutting, drilling, channelling, etc. Where such cutting and drilling, or channelling becomes necessary for proper installation, perform with care, use skilled mechanics of the trades involved, repair damage to building and equipment at no additional cost to the Owner. Cutting work of other trades shall be done only with the consent of the General Contractor. Cutting of structural members shall be done only with the approval of the Architect.

- AI. Cooperate with other trades to coordinate locations of electrical outlets and apparatus.
- AJ. Before any electrical panels, disconnects & motor starters or their associated feeders are installed, the electrical contractor shall be responsible to inform all other trades on the job of the requirements of N.E.C. 110-26. If any conflicts are noted he shall notify the architect immediately, doing with notification in writing. No additional cost, to the job under the electrical contract, will be allowed for relocating electrical panels after installation.

- AK. Perform for other trades the electrical wiring and connections for all devices or apparatus where not specified herein or indicated on the drawings. Consult the Architectural and Mechanical drawings to avoid the location of switches, outlets and other equipment from being hidden behind doors, cabinets, counters, heating equipment, etc. Buried electrical devices and/or connections shall be relocated as directed, at no additional cost to the Owner.

- AL. Where conduit, outlets or apparatus is to be cast in concrete or encased, it must be located and secured by a journeyman or foreman present at the point of installation. He shall check the locations of the electrical items before and after the concrete and masonry installation and shall release displaced items.
- AM. No changes shall be made in the design or location of apparatus unless specifically approved in writing.

3.2 DRAWINGS

- AN. Architectural and Mechanical drawings are a part of the electrical work insofar as they apply, as if referred to in full.
- AO. Since the drawings of floor and ceiling installation are made at small scale, outlets, devices, equipment, etc., are indicated only in their approximate location, unless dimensioned. Locate outlets and apparatus symmetrically on floors, walls and ceilings where not dimensioned, and coordinate such locations with work of other trades to prevent interferences. All drawings on the job shall be verified. Do not scale the electrical drawings, but refer to the architectural and mechanical drawings and dimensions.

- AP. The standard industry symbols together with the special symbols, noted and instructions indicated on the drawings describe the work, materials, apparatus and outlets required and all are to be included as a part of this specification.

3.3 EQUIPMENT CONNECTIONS

- AQ. Provide the materials and make the electrical connections to all equipment having electrical requirements as indicated in the Architectural and/or Mechanical section of the specifications and drawings. This includes Owner furnished equipment.

3.4 CLEAN-UP

- AR. Clean up all equipment, conduit, fittings, packing cartons and other debris that is a direct result of the installation of the equipment under this contract.

3.5 STORAGE AND PROTECTION OF MATERIALS

- AS. Provide storage space for storage of materials and apparatus and assume complete responsibility for all losses due to any cause whatsoever. In no case shall storage interfere with traffic conditions in any public thoroughfare or constitute a hazard to persons in the vicinity. Protect completed work, work underway, and apparatus against loss or damage.

3.6 EXCAVATION AND BACKFILLING

- AT. Do all excavating and backfilling required for installation of any and all parts of the work. Work shall be done according to other applicable Divisions of this specification.
- AU. Perform excavation in a manner to protect walls, footings and other structural members from being disturbed or damaged in any way.
- AV. All backfill shall be mechanically compacted in 6 inch layers to 95% of maximum soil density per ASTM D-1557.
- AW. All surplus earth not needed for backfilling must be removed from the premises.
- AX. Scope:
25. Trench for electrical service entrance.
 26. Trench for telephone service entrance.
 27. Backfilling and compacting.

DEMOLITION

- AY. This Contractor shall be responsible for block-outs or demolition work pertaining to the installation of the electrical system.
- AZ. Seal around all electrical equipment penetrating outside walls, roofs, unheated spaces, air plenums, etc., with Dow Corning Silicone RTV foam.
- BA. Seal around all electrical equipment penetrating fire walls with a noncombustible sealer approved for the purpose.
- BB. See drawings for demolition notes of existing electrical systems.
- 3.7. COMPLETION OF WORK AND TESTS
- BC. Before any underground service entrance circuits or feeder circuits are energized, make megger ground tests on the conductors. Record the readings along with ambient temperature and moisture conditions and submit to the Architect.
- BD. Submit with a letter of guarantee a record of all voltage reading and amp meter reading on all finished surfaces shall match materials and finish where the demolition occurred. Coordinate with other Divisions for patching requirements.

END OF SECTION 26 0001

SECTION 26 0050 – BASIC MATERIALS AND METHODS

PART 1 – GENERAL

1.1 GENERAL

- EE. All wiring shall be run concealed, except at surface mounted panels and apparatus – See raceways for type of materials and additional information. All wiring shall be run in conduit unless specifically noted otherwise.
- EF. All branch circuit splices, taps, fixture connections, etc., shall be made with an approved pressure connector or wire nuts such as listed Spring type. Pigtails at each outlet or device box shall be 6 inches long.
- EG. Labeling: Engraved black formula w/white core labels, 1/16" thick shall be batted on the interior and the exterior of branch panels (panel name and voltage) and the exterior of disconnect switches, motor controls, major J-boxes (power and auxiliary), push buttons, thermal switches, time switches and similar equipment. The labels shall be 1/4" high engraved letters, such as 1-1/2 HP FAN, F-1, PANEL – A.
- EH. The phase of each feeder conductor shall be color coded at each end in panels and junction boxes.
- EI. The Contractor is responsible for all demolition, patching and repair of all finished interior surfaces pertaining to the installation of this particular phase of work. All surfaces shall be finished (Painted, Etc.) to match the adjacent materials, finishes and color. Work shall be done by professional tradesmen on the job.
- EJ. Hard surfaces: Whenever demolition or excavation is required for installation of the electrical system, it shall be the responsibility of this contractor to make repairs and/or replacements of hard finish surfaces such as concrete, asphalt, etc.
- EK. The method of patching and repair should follow good construction practices and all finished surfaces shall match materials and finish where the demolition occurred. Coordinate with other Divisions for patching requirements.

END OF SECTION 26 0050

SECTION 26 0070 – ELECTRICAL CONNECTIONS FOR EQUIPMENT

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- EL. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.
- EM. This section is a Division-26 Basic Materials and Methods section, and is part of each Division-26 section making reference to electrical connections.

1.2 DESCRIPTION OF WORK

- EN. Extent of electrical connection for equipment includes final electrical connection of all equipment having electrical requirements. Make final connections for all owner furnished equipment. See other applicable portions of specification for building temperature control wiring requirements.
- EO. Refer to Division-23 sections for motor starters and controls furnished integral with equipment; not work of this section.
- EP. Refer to Division-23 section for control system wiring not work of this section.
- EQ. Refer to sections of other Divisions for specific individual equipment power requirements.

1.3 QUALITY ASSURANCE

- ER. NEC Compliance: Comply with applicable portions of NEC as to type products used and installation of electrical power connections.
- ES. UL-Labels: Provide electrical connection products and materials which have been UL-listed and labeled.

PART 2 – PRODUCTS

2.1 GENERAL

- ET. For each electrical connection indicated, provide complete assembly of materials, including but not necessarily limited to, raceways, conductors, conduits, cable trays, wiring devices, pressure connectors, terminal (lugs), electrical insulating tape, heat-shrinkable insulating tubing, cable ties, staples/wire nuts, and other items and accessories as needed to complete splices, terminations, and connections as required. See Section 26010, Conduit, Raceways; Section 26040 Wiring Devices; and Section 26020 Wire and Cables for additional requirements. Provide final connections for equipment consistent with the following:
30. Permanently installed fixed equipment – flexible steel-tite conduit from branch circuit terminal equipment, or raceway, to equipment, control cabinet, terminal junction box or wiring terminals. Totally enclose all wiring in raceway.
 31. Movable and/or portable equipment – wiring device, cord cap, and multi-conductor cord suitable for the equipment and in accordance with NEC requirements (Article 400). Provide 5 foot cords for washers, dryers, ranges and disposals.
 32. Other methods as required by the National Electrical Code and/or as required by special equipment of field conditions.
- EU. All electrical equipment, including power connections, required for operation of mechanical equipment not furnished as an integral part of that equipment shall be furnished and installed under Division 26.

PART 3 – EXECUTION

3.1 INSTALLATION OF ELECTRICAL CONNECTIONS

- EV. Make electrical connections in accordance with connector manufacturer's written instructions and with recognized industry practices, and complying with requirements of NEC and NECAS "Standard of Installation" to ensure that products fulfill requirements.

- EW. Connect electrical power supply conductors to equipment conductors in accordance with equipment manufacturer's written instructions and wiring diagrams.
- EX. Coordinate installation of electrical connections for equipment with equipment installation work.
- EY. Verify all electrical loads (voltage, phase, full load amperes, number and point of connections, minimum circuit ampacity, etc.) for equipment furnished under other Divisions of this specification, by reviewing respective shop drawings furnished under each division. Meet with each subcontractor furnishing equipment requiring electrical service and review equipment electrical characteristics. Report any variances from electrical characteristics noted on the electrical drawings to Architect before proceeding with rough-in work.
- EZ. Obtain and review the equipment shop drawings to determine particular final connection requirements before rough-in begins for each equipment item.
- EA. Location of disconnect switches as shown on the drawings is approximate. Electrical contractor is responsible for proper location for required code clearances.
- EB. Electrical contractor to verify motor sizes with mechanical before ordering overload heaters for starters.
- EC. Refer to Section 26020, Conductors, for identification of electrical power supply conductor terminations.

END OF SECTION 26 0070

SECTION 26 010 – CONDUIT RACEWAYS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.
- B. This section is a Division-26 Basic Materials and Methods section, and is part of each Division-26 section making reference to electrical raceways and specified herein.
- 1.2. DESCRIPTION OF WORK
- C. Extent of raceways is indicated by drawings and schedules.
- D. Types of raceways in this section include the following:
1. NM cable where allowed by NEC
 2. MC cable where allowed by NEC
 3. Electrical Metallic Tubing
 4. Flexible Steel Conduit
 5. Liquid-Tight Flexible Steel Conduit
 6. Rigid Metal Conduit
 7. Plastic Rigid Conduit

1.3. QUALITY ASSURANCE

- E. Manufacturers: Firms regularly engaged in manufacture of raceway systems of types and sizes required, whose products have been in satisfactory use in similar service for not less than three (3) years.
- F. Standards: Comply with applicable portions of NEMA standards pertaining to raceways. Comply with applicable portions of UL safety standards pertaining to electrical raceway systems, and provide products and components which have been UL-listed and labeled. Comply with NEC requirements as applicable to construction and installation of raceway systems.
- G. Submittals: Not required.

PART 2 – PRODUCTS

- H. Provide and install raceways for the electrical system as shown on the plans, or as required by NEC. The raceways shall be concealed except at surface mounted panels and/or apparatus and open truss ceilings. Minimum conduit size is 3/4".
- I. Acceptable raceways (metallic conduit to be galvanized):
6. Galvanized Rigid Conduit (GRC) – may be used in all locations. When installed in earth, cover with one layer of scotch wrap.
 7. Electrical Metallic Tubing (EMT) – may be used in indoor, dry locations not subject to damage, not in contact with earth, and not embedded in the concrete floor slab (slab on earth grade only). EMT shall not be used outdoors.
 8. Plastic Rigid Conduit (PVC) – PVC schedule 40 may be used underground, or below concrete. (See ground conductors). All bends greater than 30 degrees shall be GRC. (This includes rising up through the floor). All connections to concrete or structure shall be a minimum of 10' of GRC at the end of the PVC run. All conduits passing horizontally through concrete shall be GRC for 5' before and after passing through the concrete (not applicable to slab up through floor slab). All underground conduits shall be run below the concrete slab.
 9. Flexible Steel Conduit: 1/2" minimum used for indoor final connections to equipment.
 10. Liquid Tight Flexible Steel Conduit: 1/2" minimum used for outdoor final connections to equipment.

PART 3 – EXECUTION

- J. All exposed conduit shall be installed parallel with or at right angles to the building structure lines. Raceways above ceilings in accessible attics shall be considered as exposed installations.
- K. All branch circuit conduits shall be installed concealed in walls and ceilings. Conduit installation in existing walls that requires cutting and patching shall have patch and finish work done under the Division 26 contract. All work shall be done by the professional finish subcontractor on the job and shall subcontract the work under the Division 26 subcontract.
- L. When installing conduit, all cuts shall be smooth and square with the run and inside and outside burrs removed. Conduit joints in concrete or in the earth shall be made water tight with compound seal.
- M. Install accessible junction boxes or condulets in conduit runs as required by NEC, and at 100 ft. intervals on long runs. Each junction box shall be supported independent of the conduit. Support vertical conductor runs per NEC 300-19.
- N. The open ends of conduit shall be capped to keep out debris until the project is complete.
- O. All mechanical exterior equipment shall be connected with vinyl covered flexible conduit with accompanying grounding conductor.
- P. Pull a mandrel and swab through all conduit before installing conductors.
- Q. All empty conduit shall be left with a 200-lb. nylon pull cord installed.
- R. 3/8" steel flex may be used for single connections to recessed light fixtures.

END OF SECTION 26 010

SECTION 26 0120 – CONDUCTORS AND CABLES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- S. NM and MC cable where allowed by NEC.
- T. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.
- U. This section is a Division-26 Basic Materials and Methods section, and is part of each Division-26 section making reference to conductors and cables specified herein.
- 1.2. DESCRIPTION OF WORK
- V. Extent of electrical conductor and electrical cable work is indicated by drawings and schedules.
- W. Types of conductors and cables in this section include the following:
11. Copper conductors (600V)
 12. Applications for conductors and cables required for project include:
 12. Power Service and Distribution
 13. Feeders
 14. Branch Circuits

1.3. QUALITY ASSURANCE

- X. Comply with NEC as applicable to construction and installation of electrical conductors and cable. Comply with UL standards and provide electrical conductors and cables which have been UL-listed and labeled.
- Y. Comply with applicable portions of NEMA/Insulated Cable Engineers Association standards pertaining to materials, construction and testing of conductors and cable.
- Z. Comply with applicable portions of ANSI/ASTM and IEEE standards pertaining to construction of conductors and cable.
- 1.4. SUBMITTALS
- AA. Product Data: Submit manufacturer's data on electrical wire, cable and connectors.
- PART 2 – PRODUCTS
- AB. COPPER CONDUCTORS (600V): insulation types THHN, THWN, XHHW as required by application.
- AC. Provide factory-fabricated conductors of sizes, ratings, materials, and types indicated for each service. Where not indicated provide proper selection to comply with project's installation requirements and NEC standards.
- AD. Provide color and coding of conductors as follows:
15. Wire sizes of #6 and smaller shall be factory colored throughout. Larger conductors shall be identified with a minimum of 6" of color wrapped tape at junction boxes and termination.

Mfg.	Standard	Tamper Resistant	Surge Protected	Isolated Ground
Hubbell	HL3362	8300R	5362-IS	16 5362-IS
P & S	5362	TR6362	No	No
Leviton	5362	5362-SGX	Substitute	Substitute
Cooper	5362	TR6362		

35. Switches: (Provide Decora equal if required by Owner)
- | Mfg. | 1 pole | 3 way | 4 way | W-Pilot |
|---------|--------|--------|--------|-----------|
| Hubbell | HL1221 | HL1223 | HL1224 | HL1221-PL |
| P & S | 1221 | 1223 | 1224 | 1221-PL |
| Leviton | 1221 | 1223 | 1224 | |
| Cooper | 1221 | 1223 | 1224 | |

16. Switch legs and travelers shall be colors other than those listed above.

- AE. Unless more stringent requirements are noted on the drawings, provide #10 conductors for branch circuits for which the distance from panelboard to furthest outlet is more than 75' for 120 volt, or more than 140' for 277 volt circuits.

PART 3 – EXECUTION

3.1 INSTALLATION

- AF. General: Install electrical conductors and cables as indicated, in compliance with manufacturer's written instructions, applicable requirements of NEC and NECAS "Standards of Installation", and in accordance with recognized industry practices.
- AG. Coordinate installation work with electrical raceway and equipment installation work, as necessary for proper interface.
- AH. Use pulling compound or lubricant, where necessary; compounds must not deteriorate conductor or insulation.
- AI. Keep conductor splices to minimum.
- AJ. Install splices and tapes which have mechanical strength and insulation rating equivalent-or-better than conductor.
- AK. Use splices and tap connectors which are compatible with conductor material.
- 3.2. FIELD QUALITY CONTROL
- AL. Prior to energization, test cable and wire for continuity of circuitry, and also for short circuits. Correct malfunctions when detected.
- AM. Subsequent to wire and cable connections, energize circuitry and demonstrate functioning in accordance with requirements.
- AN. Provide a full sized ground wire in all paralleled conduits per NEC 250-122.

END OF SECTION 26 0120

SECTION 26 0130 – ELECTRICAL BOXES AND FITTINGS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- AO. Drawings and general provisions of Contract, including general and Supplementary Conditions and Division-1 Specifications sections, apply to work of this section.

- AP. This section is a Division-26 Basic Materials and Methods section, and is a part of each Division-26 section making reference to electrical wiring boxes and fittings specified herein. See Section 26010, Raceways, for additional requirements.

1.2 DESCRIPTION OF WORK

- AQ. Extent of electrical box and electrical fitting work is indicated by drawings and schedules.
- AR. Types of electrical boxes and fittings in this section include the following:
19. Outlet boxes
 20. Junction boxes
 21. Pull boxes
 22. Conduit bodies
 23. Bushings
 24. Locknuts
 25. Knockout closures
 26. Miscellaneous boxes and fittings

1.3. QUALITY ASSURANCE

- AS. Comply with NEC as applicable to construction and installation of electrical boxes and fittings. Comply with ANSI C 134.1 (NEMA Standards Pub No. C5 1) as applicable to sheet-steel outlet boxes, device boxes, covers and box supports. Provide electrical boxes and fittings which have been UL-listed and labeled.

1.4. SUBMITTALS

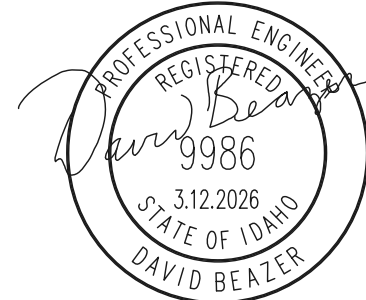
- AT. None required.
- PART 2 – PRODUCTS
21. FABRICATED MATERIALS
- AU. Fittings: Compression or set screw type (screws must have a full set) connectors and couplings used on EMT shall be steel. INDETER TYPE OR DIE CAST FITTINGS ARE NOT ACCEPTABLE.
- AV. Clamp type malleable iron fittings shall be used for standard steel flex conduit.
- AW. Interior Outlet Boxes: Provide one piece, galvanized flat rolled sheet steel interior outlet wiring boxes, of types, shapes and sizes, including box depths, to suit each respective location and installation; construct with stamped knockouts in back and sides, and with threaded screw holes with corrosion-resistant screws for securing box covers and wiring devices; minimum depth 2-1/8". Boxes shall be sized as required to meet NEC requirements for number of conductors in boxes.
- AX. Interior Outlet Box Accessories: Provide outlet box accessories as required for each installation, including mounting brackets, hangers, extension rings, future stubs, cable clamps and metal strips for supporting outlet boxes, which are compatible with outlet boxes being used and fulfilling requirements of individual wiring applications.
- AY. Weatherproof Outlet Boxes: Provide corrosion-resistant cast-metal weatherproof outlet wiring boxes, of types, shapes and sizes (including depth) required, with threaded conduit ends, cast aluminum weatherproof in-use covers compatible with GFO receptacles. Provide weather resistant gaskets and stainless steel screws.
- AZ. Junction and Pull Boxes: Provide code-gage sheet steel junction and pull boxes, with screw-on covers, of types, shapes and sizes to suit each respective location and installation; with welded seams and equipped with stainless steel nuts, bolts, screws and washers.
- BA. Conduit Bodies: Provide galvanized cast-metal conduit bodies, of types, shapes and sizes to suit respective locations and installation, construct with threaded-conduit-entrance ends, removable covers, and corrosion-resistant screws.
- BB. Bushings, Knockout Closures and Locknuts: Provide corrosion-resistant punched-steel box knockout closures, conduit locknuts and malleable iron conduit bushings and offset connectors, of types and sizes to suit respective uses and installation.

- BC. Conduit Bodies: Provide galvanized cast-metal conduit bodies, of types, shapes and sizes to suit respective locations and installation, construct with threaded-conduit-entrance ends, removable covers, and corrosion-resistant screws.
- BB. Bushings, Knockout Closures and Locknuts: Provide corrosion-resistant punched-steel box knockout closures, conduit locknuts and malleable iron conduit bushings and offset connectors, of types and sizes to suit respective uses and installation.

PART 3 – EXECUTION

</





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DATE
March 12, 2026

PROJECT TITLE
Idaho State Park House
@Bear Lake
Address
St. Charles, Idaho

SHEET TITLE
LIGHTING
PLAN
SCALE: 1/4"=1'-0"

PROJECT NUMBER

REVISIONS

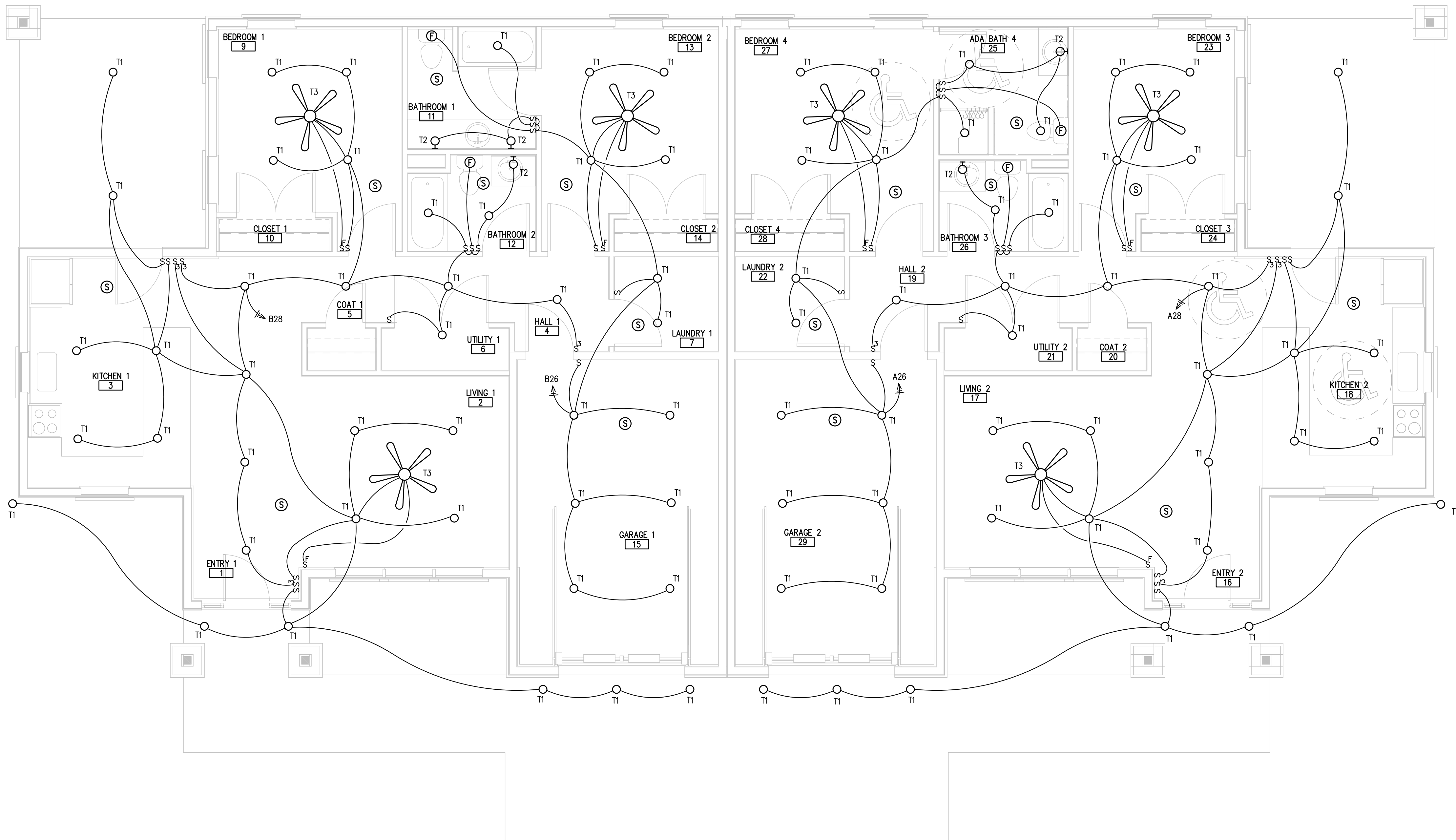
SHEET NUMBER

E100

KEYED NOTES

1. RUN OUTDOOR LIGHT CIRCUIT THROUGH SQUARE D CLASS 8903 TYPE LG40 NEMA 1 CONTACTOR ADJACENT TO PANEL. CONTROL THE CONTACTOR BY PHOTOCELL "ON" AND TIME CLOCK "OFF". USE TORK DGLC100A-NC TIME CLOCK ADJACENT TO CONTACTOR. LOCATE TORK EPC-A PHOTOCELL OUTSIDE OF BUILDING AWAY FROM ANY LIGHT SOURCE OR DIRECT SUNLIGHT. INSTALL MANUAL OVERRIDE TOGGLE 6HR TIME SWITCH ADJACENT TO CONTACTOR. TIME CLOCK MUST RETAIN TIME AND PROGRAM SETTINGS ON LOSS OF POWER FOR AT LEAST 10 HOURS.
2. VACANCY SENSOR SWITCH, MANUAL ON, AUTO OFF, PER 2015 IECC C405.2.1.1. WATTSTOPPER DSW-301 OR EQUAL.
3. CEILING MOUNT OCCUPANCY SENSOR. AUTO ON, AUTO OFF. WATTSTOPPER DT300 SENSOR(S) WITH BZ-150 POWER PACK(S) SET TO OCCUPANCY SETTING. SENSOR(S) TO CONTROL ALL LIGHTS IN ROOM UNLESS SHOWN OTHERWISE. INSTALL PER MANUFACTURER WIRING DIAGRAMS. PROVIDE BZ-150 POWER PACK AT EACH SEPARATELY SWITCHED LOCATION.

LIGHT FIXTURE SCHEDULE			
TYPE	MANUFACTURER/CATALOG NO.	MOUNTING	LAMPS
T1	1300 LUMEN PUCK LIGHT	J-BOX/RECESS	LED (15W)
T2	BATHROOM MIRROR	WALL ABOVE MIRROR	LED (15W)
T3	CEILING FAN PER OWNER	SURFACE	NO LIGHT

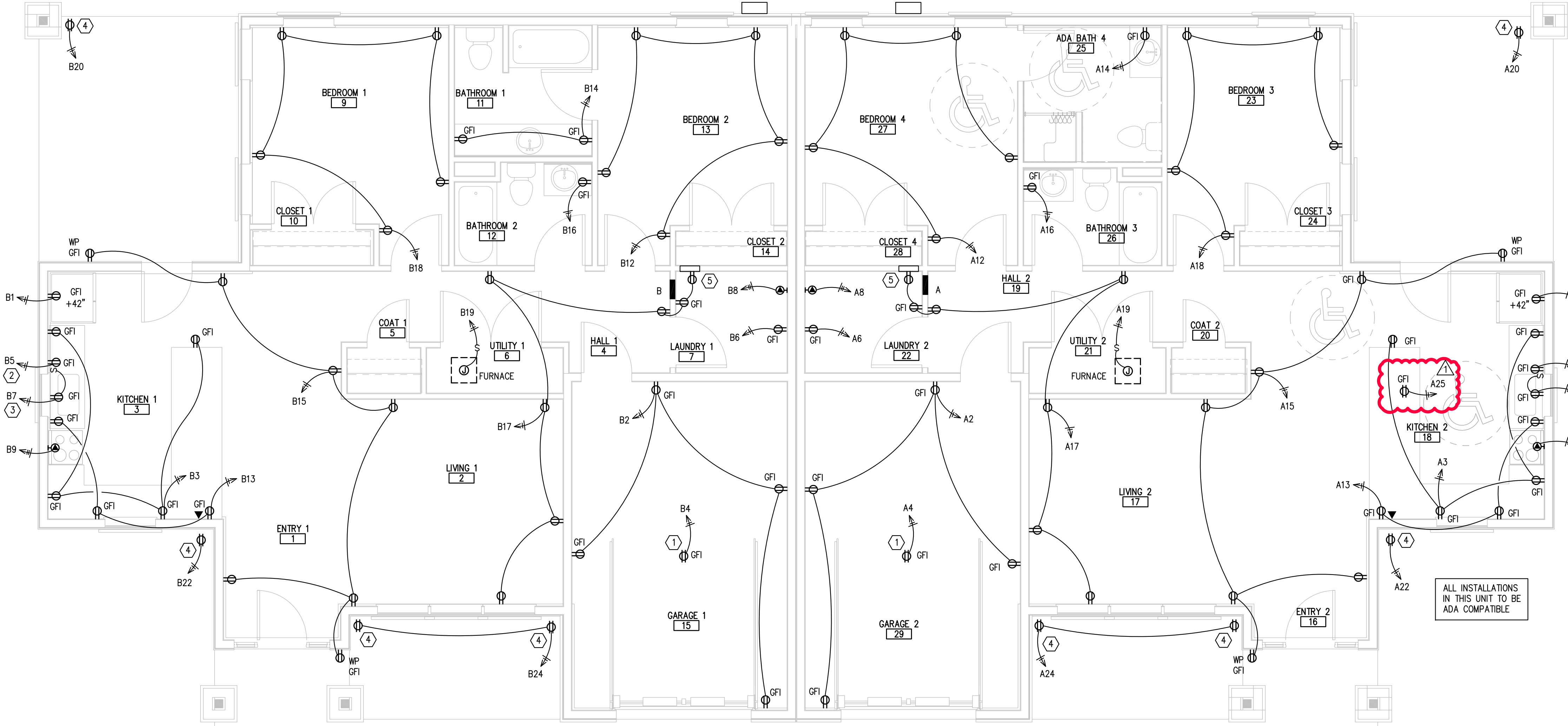


PANEL A		☒ NEW	TYPE	LOAD CENTER	1	Ø	3	WIRE	120/240	VOLTS	LOCATION	MOUNTING												
		☐ EXISTING	REMARKS	COORDINATE CONDENSING UNIT BREAKER AND CIRCUIT SIZE								☒ flush												
		☐ Bolt on breakers										☐ surface												
		☐ Isolated ground bus										☒ 125 amp. main												
		☐ breaker										☒ lugs												
No.	BRKR	A	P	CIRCUIT DESCRIPTION	L	O	M	Wire	CIRC. LOAD	PHASE	CIRC. LOAD	Wire	L	O	M	CIRCUIT DESCRIPTION	BRKR	A	P	No.				
1	20	1		FRIDGE				12	1000	1800	800	12				4	GARAGE OUTLETS	20	1	2				
3				SMALL APPLIANCE OUTLETS				4	1500		2500	1000				1	GARAGE DOOR OPENER			4				
5				DISHWASHER				1	1000	2000		1000				1	WASHER			6				
7				DISPOSAL				1	1000		3500	2500	10			1	DRYER			8				
9	50	2		RANGE				1	6 4000	6500		2500	10							10				
11								6	4000		5000	1000	12			5	BEDROOM	20	1	12				
13	20	1		SMALL APPLIANCE OUTLETS				3	12 1500	2500		1000				1	BATHROOM			14				
15				ENTRY/LIVING				7		1400	2400	1000				1	BATHROOM			16				
17				LIVING/HALL/LAUNDRY				6		1200	2200		1000			5	BEDROOM			18				
19				FURNACE FAN				1	1000		1200	200				1	SOFFIT OUTLETS			20				
21	40	2		CONDENSING UNIT				1	8 2000	2200		200				1				22				
23								8	2000		2400	400				2				24				
25	20	1		MICROWAVE				12	1000	1560		560				X	GARAGE /BED/BATH LTS			26				
27				SPARE												X	LIVING/KITCHEN/HALL/BED SPACE			28				
29																				30				
31																				32				
33																				34				
35																				36				
37																				38				
39																				40				
41											1800	1800	10			1	WELL PUMP, VERIFY ACTUAL PUMP	30	2	40				
TOTALS																				AIC 10000				
FEEDER					310																			
AMPS/PHASE					99					84A PER NEC 220.82 PLUS 15A FOR WELL PUMP					parallel runs					1				

PANEL <u>B</u>		☒ NEW	TYPE	LOAD CENTER	<u>1</u> Ø <u>3</u>		WIRE	<u>120/240</u>		VOLTS	LOCATION	MOUNTING												
		☐ EXISTING	REMARKS	COORDINATE CONDENSING UNIT BREAKER AND CIRCUIT SIZE								☒ flush												
☐ Bolt on breakers												☐ surface												
☐ Isolated ground bus												☒ lugs	☐ breaker											
No.	BRKR	A	P	CIRCUIT DESCRIPTION	L	O	M	Wire	CIRC. LOAD	PHASE	CIRC. LOAD	Wire	L	O	M	CIRCUIT DESCRIPTION	BRKR	A	P	No.				
1	20	1		FRIDGE				12	1000	1800	800	12				4	GARAGE OUTLETS	20	1	2				
3				SMALL APPLIANCE OUTLETS				4	1500	2500	1000					1	GARAGE DOOR OPENER			4				
5				DISHWASHER				1	1000	2000	1000					1	WASHER			6				
7				DISPOSAL				1	1000	3500	2500	10				1	DRYER			8				
9	50	2		RANGE				1	6 4000	6500	2500	10								10				
11								6	4000	5000	1000	12				5	BEDROOM	20	1	12				
13	20	1		SMALL APPLIANCE OUTLETS				3	12 1500	2500	1000					1	BATHROOM			14				
15				ENTRY/LIVING				7	1400	2400	1000					1	BATHROOM			16				
17				LIVING/HALL/LAUNDRY				6	1200	2200	1000					5	BEDROOM			18				
19				FURNACE FAN				1	1000	1200	200					1	SOFFIT OUTLETS			20				
21	40	2		CONDENSING UNIT				1	8 2000	2200	200					1				22				
23								8	2000	2400	400					2				24				
25	20	1		SPARE						560	560					X	GARAGE /BED/BATH LTS			26				
27																X	LIVING/KITCHEN/HALL/BED SPACE			28				
29																				30				
31																				32				
33																				34				
35																				36				
37																				38				
39																				40				
41																				42				
TOTALS																				AIC <u>10000</u>				
FEEDER					<u>310</u>																			
AMPS/PHASE					<u>84</u> <u>84</u>					84A PER NEC 220.82					parallel runs					<u>1</u>				

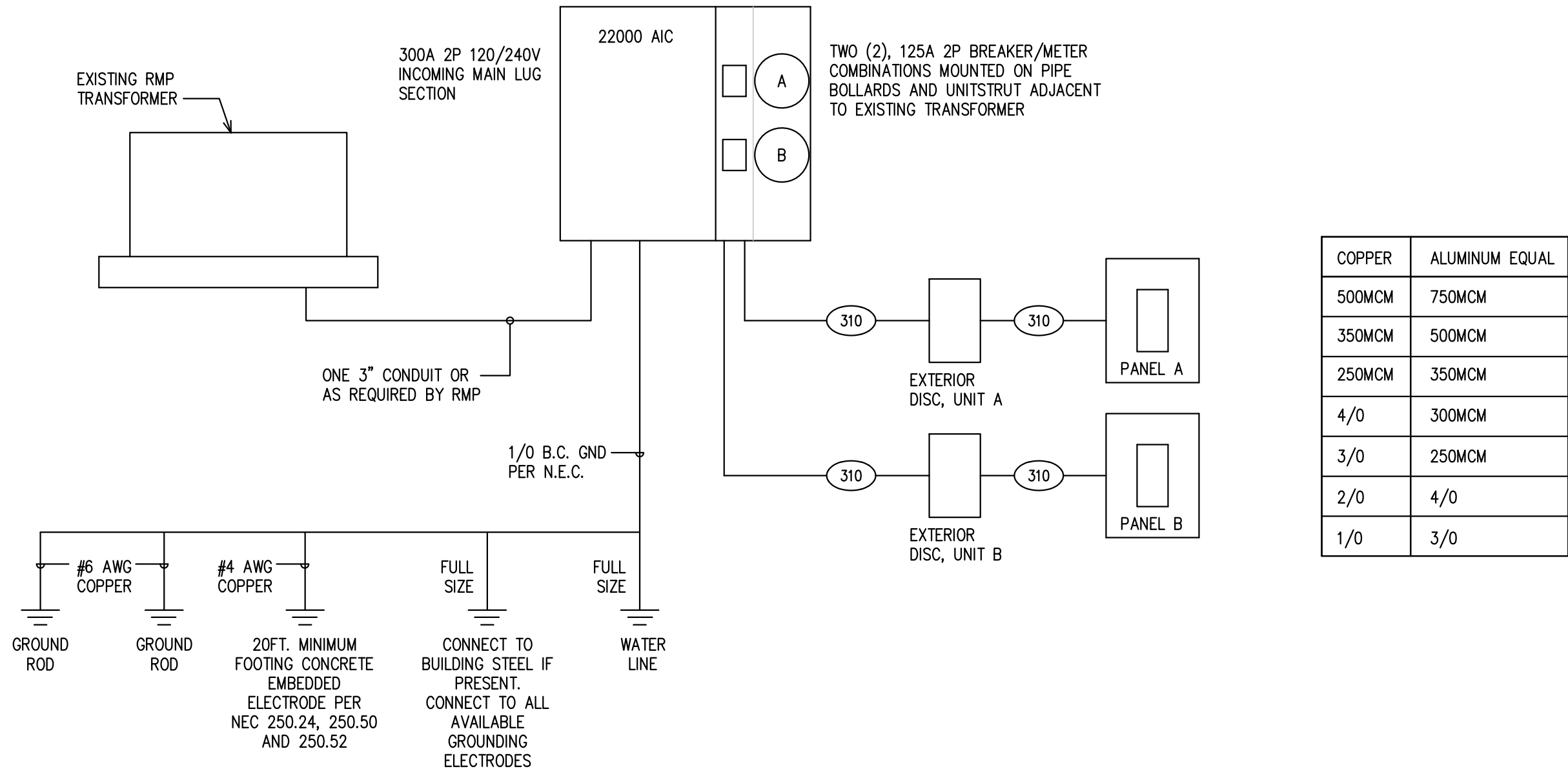
SERVICE ENTRANCE & FEEDER CONDUIT-CONDUCTOR SCHEDULE, COPPER					
TYPE	CONDUCTOR QUAN.	CONDUCTOR SIZE	COND SIZE	AMP	INSULATION
20	2	10	3/4	30	THHN, THWN, XHHW
30	3				
40	4				
28	2	8		40	
38	3		1		
48	4				
26	2	6		55	
36	3				
46	4		1 1/4		
34	3	4		70	
44	4				
33	3	3		85	
43	4				
31	3	1	1 1/2	110	
41	4		2		
30	3	1/0		150	
40	4				
32	3	2/0		175	
42	4				
33	3	3/0		200	
43	4		2 1/2		
34	3	4/0		230	
44	4				
32	3	250		255	
42	4		3		
33	3	350		310	
43	4				
30	3	500	3 1/2	380	
40	4				

PROVIDE GROUND IN ALL CONDUITS PER N.E.C. SIZE ACCORDING TO SERVICE OR EQUIPMENT GROUNDING TABLES, DEPENDING ON USE. EACH PARALLEL CONDUIT TO INCLUDED FULL SIZE GROUND.



KEYED NOTES

- CEILING OUTLET FOR GARAGE DOOR OPENER.
- MOUNT DISHWASHER OUTLET IN ADJACENT CABINET SPACE PER NEC.
- LOCATE OUTLET BELOW COUNTER AND SWITCH ABOVE FOR DISPOSAL.
- SOFFIT OUTLET FOR FUTURE HEAT TAPE.
- TELEPHONE CABINET PER OWNER AND CONTRACTOR, PROVIDE #6BC GROUND. RUN 2" CONDUIT TO PROPERTY CORNER OR AS REQUIRED BY UTILITY AND OWNER.
- CONNECT PHONE OUTLET TO PHONE CABINET IN LAUNDRY ROOM.



ONE LINE DIAGRAM

COPPER	ALUMINUM EQUAL
500MCM	750MCM
350MCM	500MCM
250MCM	350MCM
4/0	300MCM
3/0	250MCM
2/0	4/0
1/0	3/0



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DATE
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Idaho State Park House
@Bear Lake
Address
St. Charles, Idaho

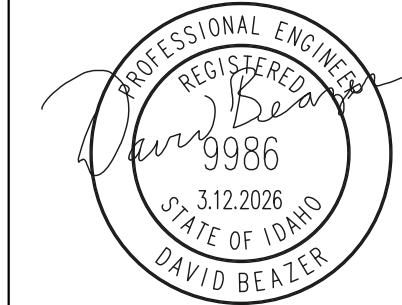
SHEET TITLE
POWER PLAN
SCALE: 1/4"=1'-0"

PROJECT NUMBER

REVISIONS
ADA MICROWAVE OUTLET
7.3.2026

SHEET NUMBER

E200



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DATE
March 12, 2026

PROJECT TITLE
Idaho State Park House
@Bear Lake
Address 1
St. Charles, Idaho

SHEET TITLE
ELECTRICAL
SITE PLAN
SCALE: 1"=20'-0"

PROJECT NUMBER

REVISIONS

SHEET NUMBER

ES101

