

**GENERAL NOTES**

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CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWING ONLY WILL NOT SATISFY THIS REQUIREMENT.

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BECAUSE THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, THE CONTRACTOR SHALL, BEFORE STARTING EACH PORTION OF THE WORK, CAREFULLY STUDY AND COMPARE THE VARIOUS CONTRACT DOCUMENT RELATIVE TO THAT PORTION OF THE WORK, AS WELL AS THE INFORMATION PROVIDED BY THE OWNER. SHALL TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THAT PORTION OF THE WORK AND SHALL OBSERVE ANY CONDITIONS AT THE SITE AFFECTING IT. THESE OBLIGATIONS ARE FOR THE PURPOSE OF FACILITATING COORDINATION AND CONSTRUCTION BY THE CONTRACTOR. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED BY OR MADE KNOWN TO THE CONTRACTOR AS A REQUEST FOR INFORMATION IN SUCH FORM AS THE ARCHITECT MAY REQUIRE. THE CONTRACTOR'S REVIEW IS MADE IN THE CONTRACTOR'S CAPACITY AS A CONTRACTOR AND NOT AS A LICENSED DESIGN PROFESSIONAL.

**PROJECT NOTES**

PROPOSED ADDITION TO EXISTING RESIDENCE AND NEW ADU/GARAGE  
**OWNERS**

STEVE KAO & HUI HONG  
21722 CHINOOK ROAD  
WOODWAY, WA 98020

**ZONING**

R-15  
**PROPERTY TAX ACCT#**

PROPERTY TAX ACCOUNT NUMBER: 294890-0015

**LEGAL DESCRIPTION**

GROVELAND PARK ADD VAC 3-4 & S 10 FT OF 2 & SH LIDS ADU & VAC ST ADU IN BLK 22 & VAC N 40 FT OF 16 THRU 22 & VAC S 50 FT OF 9 THRU 15 & VAC ST ADU IN BLK 2

**LOT COVERAGE**

TOTAL LOT AREA: 42,797 S.F. NET LOT AREA 39,844 S.F.

LOT COVERAGE:	AREA
HOUSE W/ ADDITIONS	5,266 S.F.
DADU	1,108 S.F.
SHED	143 S.F.
STRUCTURAL TOTAL	6,517 S.F.
SPORT COURT	1,950 S.F.
DRIVING SURFACES	6,766 S.F.
<b>TOTAL</b>	<b>15,233 S.F.</b>

HARDSCAPE MAX. ALLOWED 9% OF 42,797 S.F. = 3,852 S.F.  
STEPPING STONES & ROCKERIES 976 S.F.

40% ALLOWABLE LOT COVERAGE OR 17,119 S.F.

**GROSS FLOOR AREA**

BASEMENT	640 S.F.
MAIN FLOOR	3,916 S.F.
UPPER FLOOR	1,908 S.F.
DADU	1,952 S.F.
<b>TOTAL</b>	<b>8,416 S.F.</b>
ALLOWABLE GROSS FLOOR AREA	12,000 S.F.

**LOT SLOPE CALCULATION**

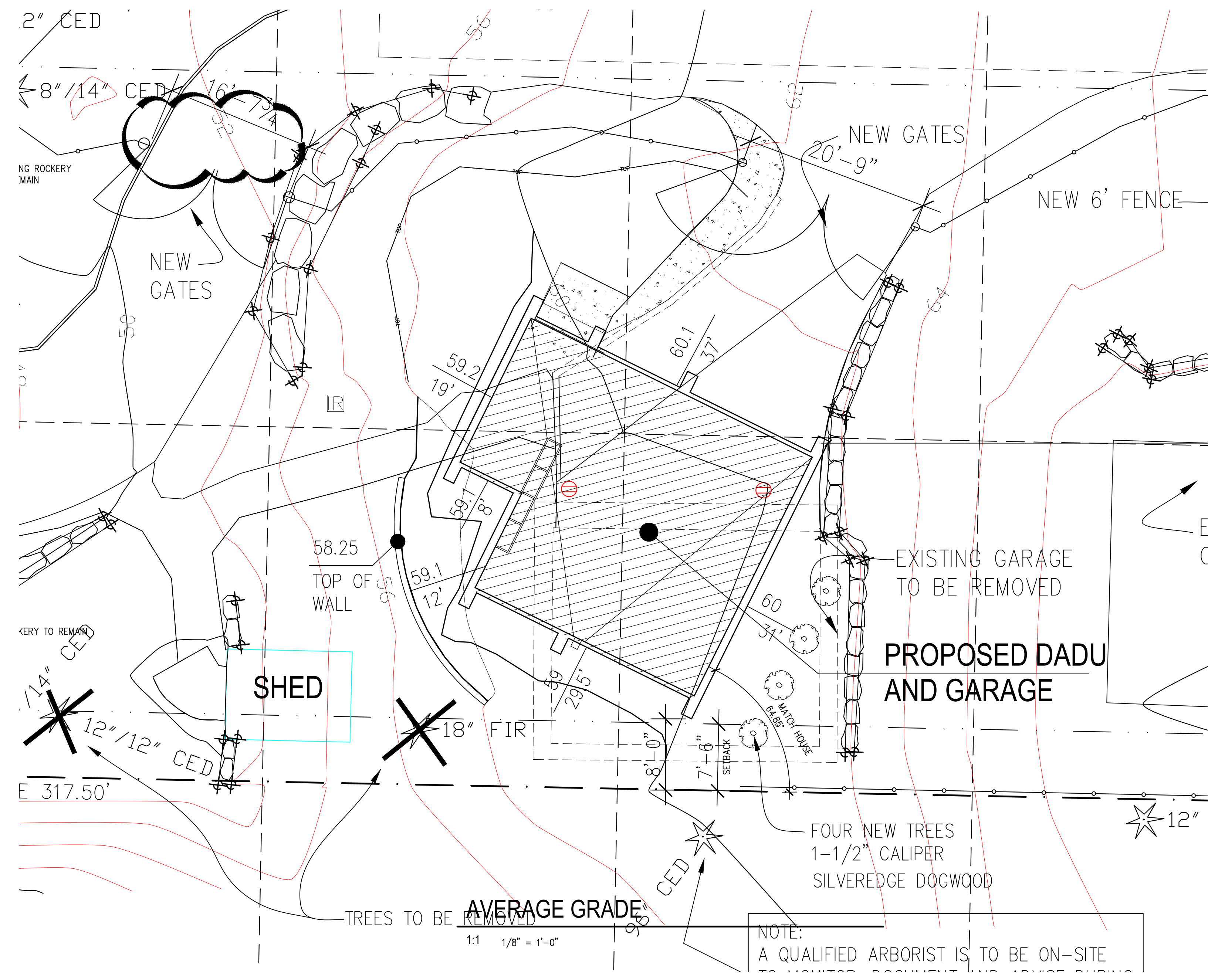
HIGH POINT 80'-LOW POINT 18'=62' DIFFERENCE  
62'/438.3' HORIZONTAL DISTANCE=12.8% LOT SLOPE

**FIRE SPRINKLERS**

PROVIDE A NFPA 13D FIRE SPRINKLER SYSTEM THROUGHOUT THE MAIN HOUSE. THIS SYSTEM WILL REQUIRE A SEPARATE FIRE PERMIT.  
PROVIDE THE DADU WITH A NFPA 13D MONITORED FIRE ALARM SYSTEM.

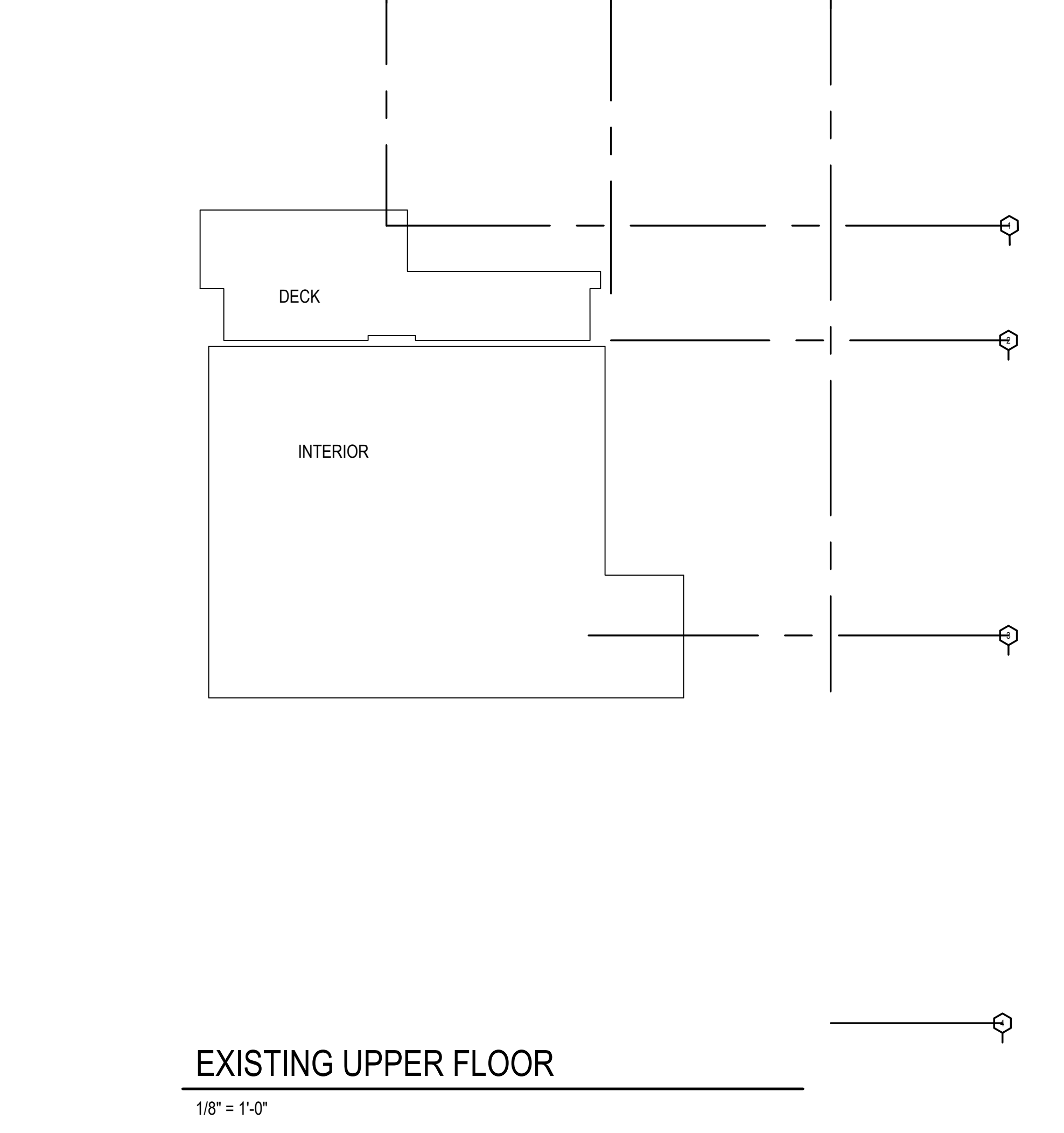
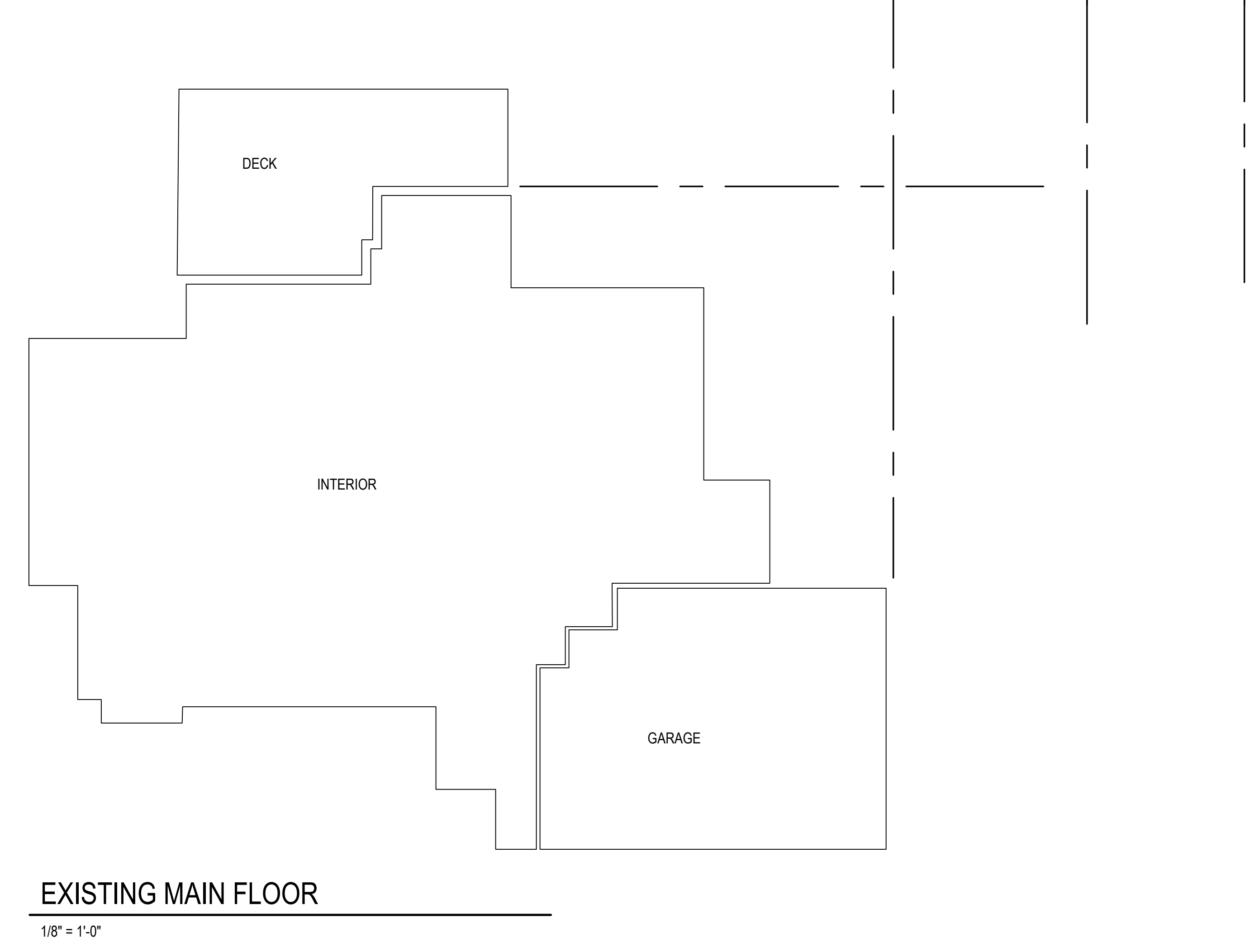
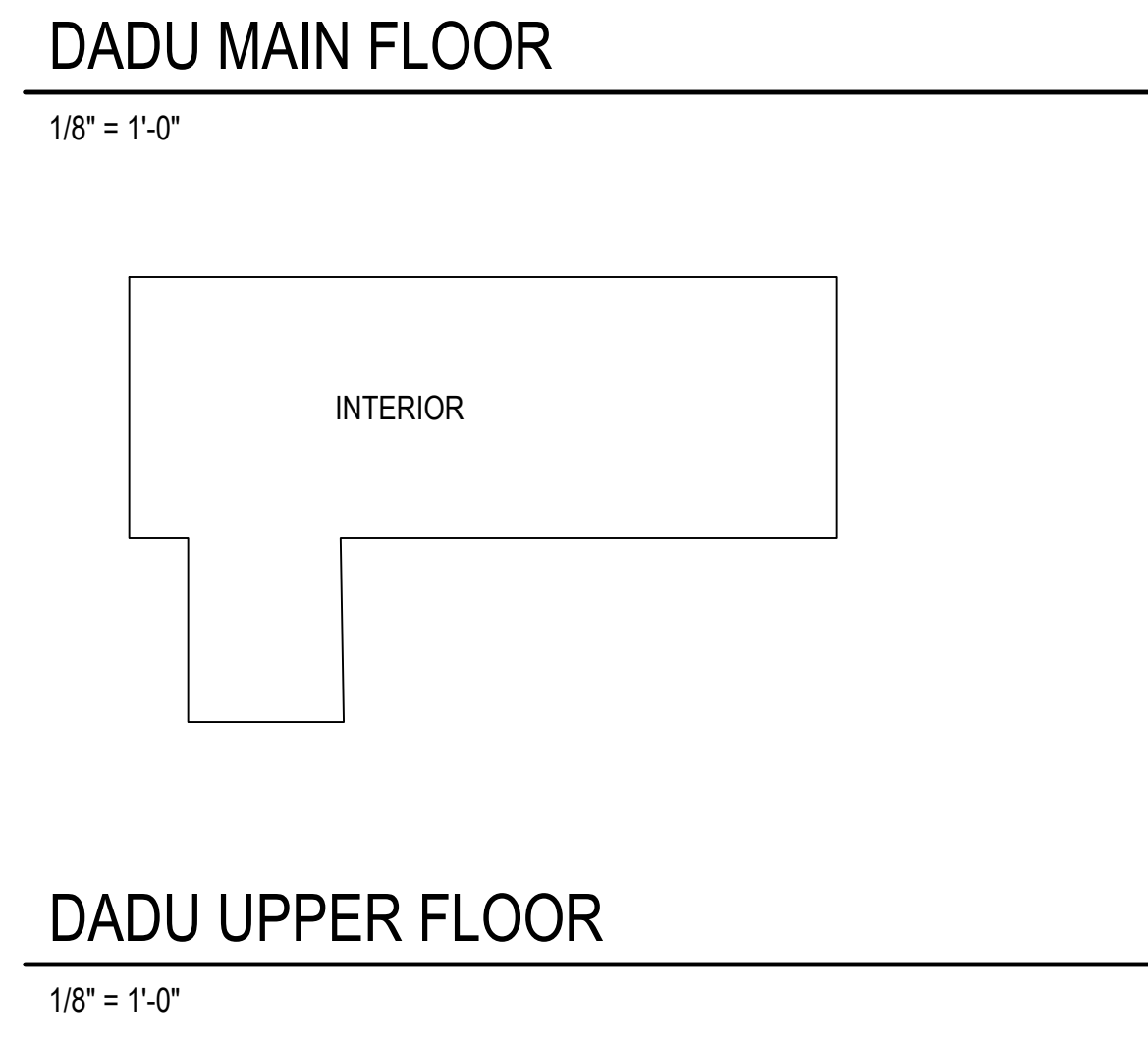
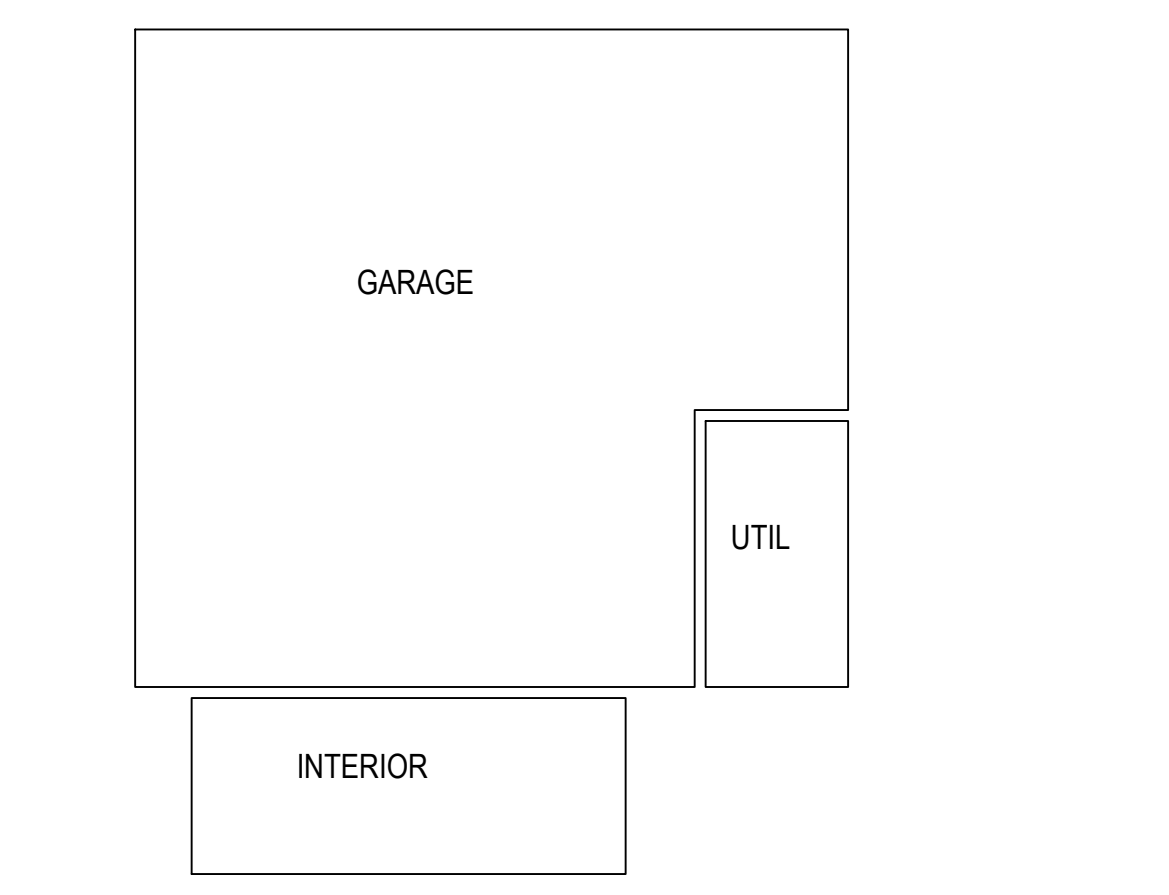
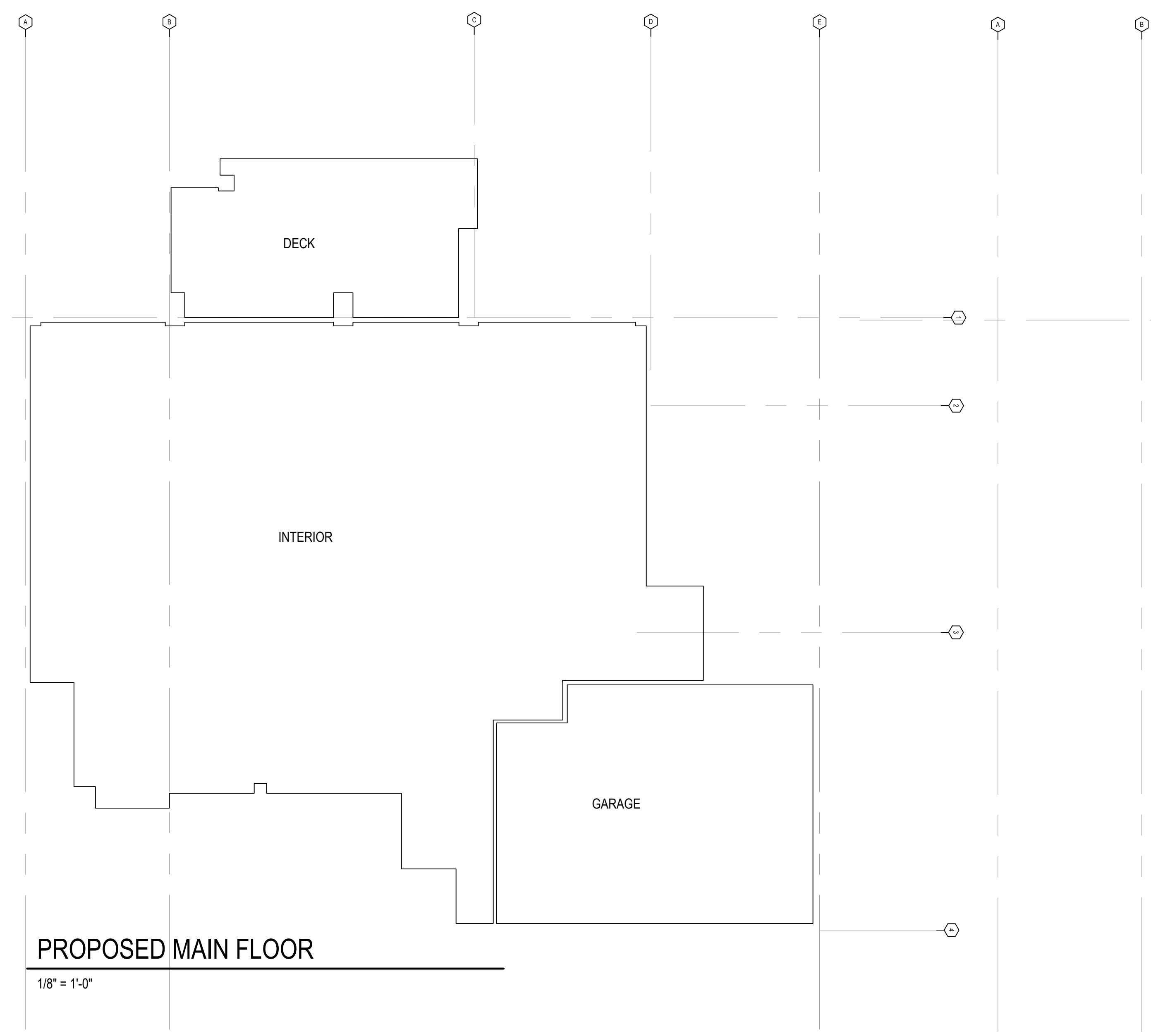
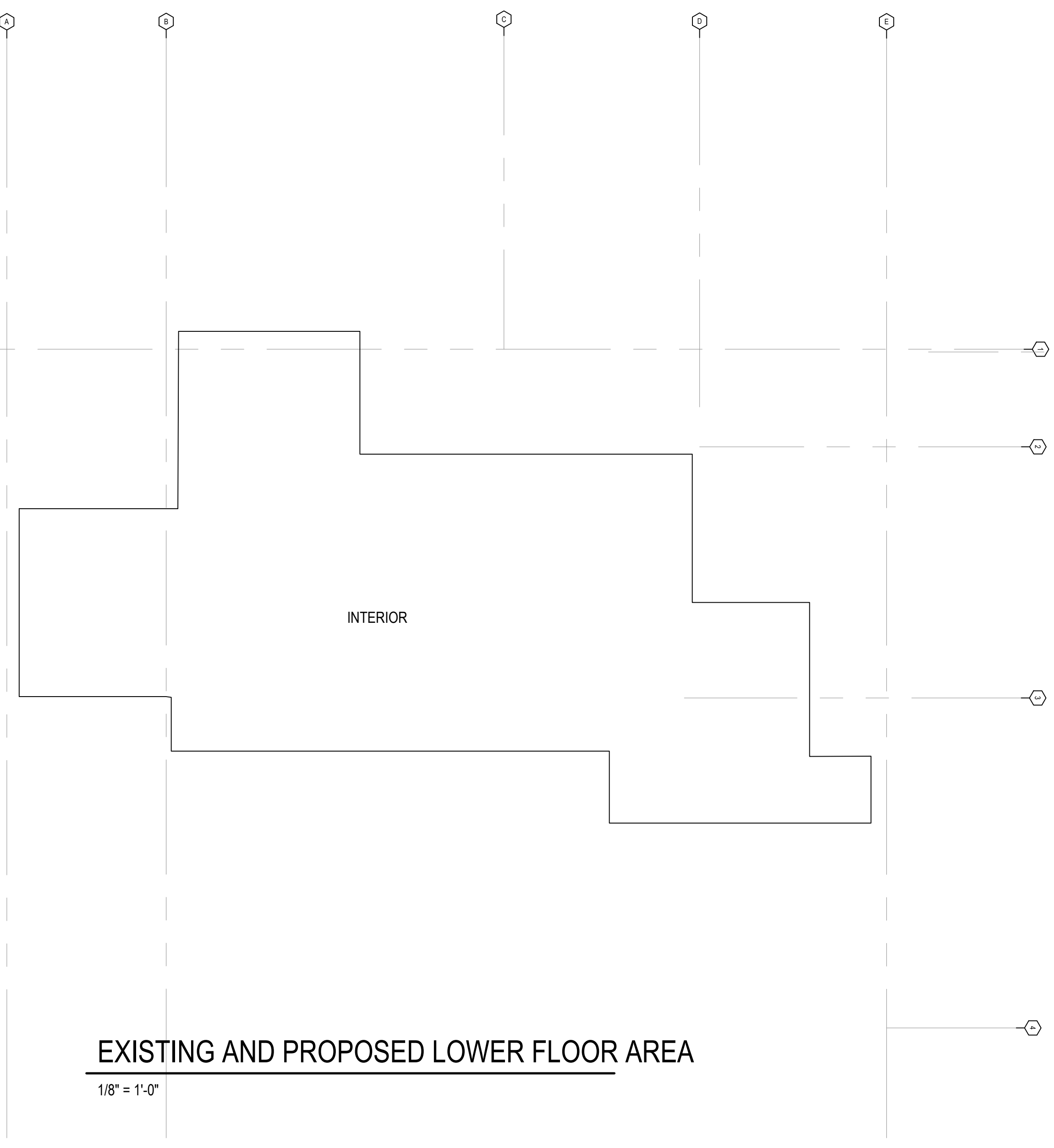
**SHEET INDEX**

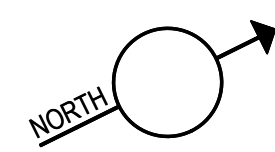
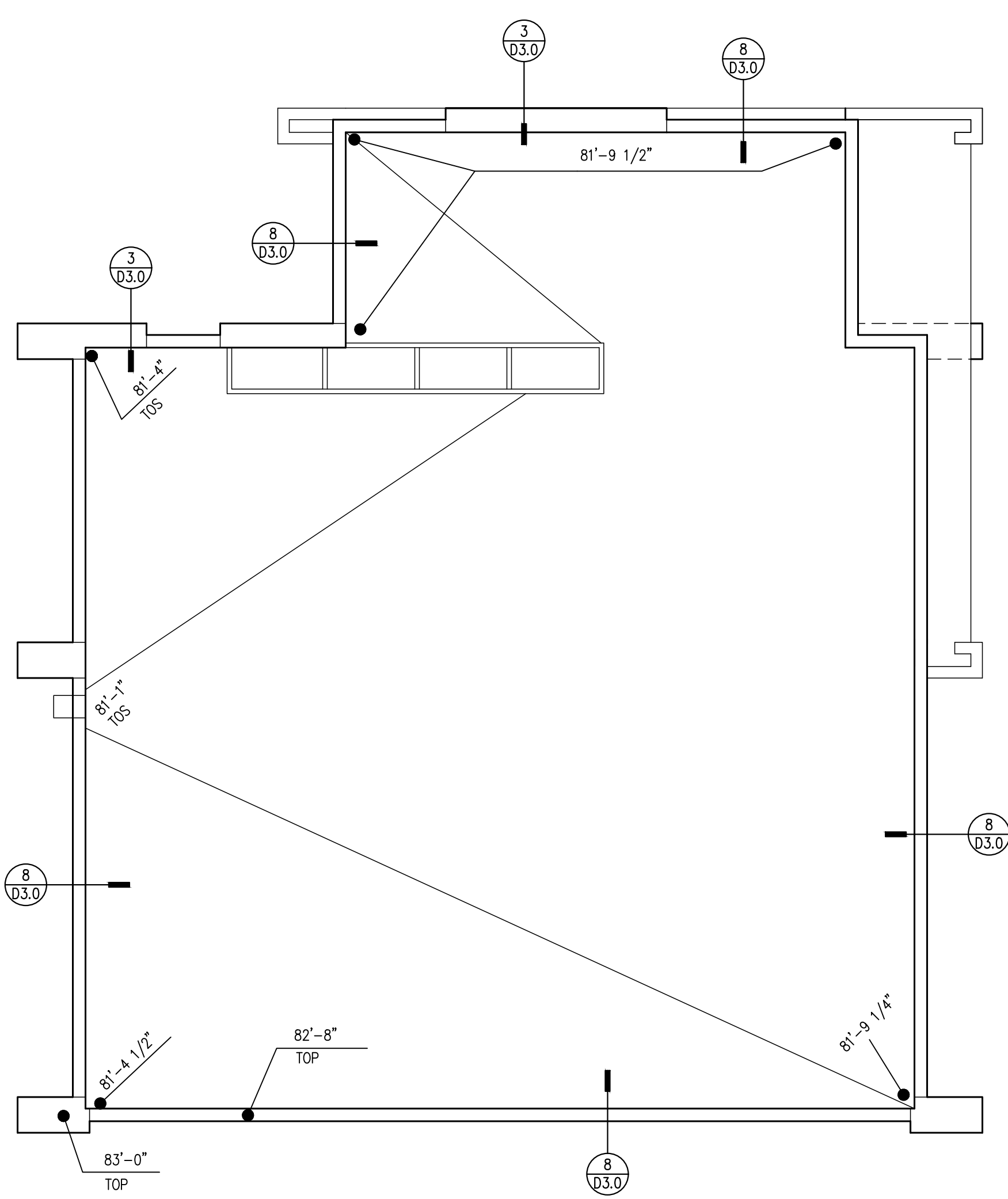
SF	MERCER ISLAND COVER SHEET
1.0	SITE PLAN
1.1	FLOOR AREA ILLUSTRATION
0.0	SITE SURVEY
C-1	CSWPP PLAN
C-2	DRAINAGE PLAN
C-3	DETAILS
02.0	PLANS
D2.1	SCHEDULES AND NOTES
D2.2	ELECTRICAL PLANS AND NOTES
D3.0	ELEVATIONS AND SECTIONS
D3.1	WALL SECTIONS AND DETAILS
D3.2	DETAILS
D4.0	INTERIOR ELEVATIONS
D5.0	SPECIFICATIONS
S1.0	GENERAL STRUCTURAL NOTES
S1.1	GENERAL STRUCTURAL NOTES
S1.2	GENERAL STRUCTURAL NOTES
S3.0	DETAILS
S3.1	DETAILS
S4.0	TYPICAL WOOD DETAILS
S4.1	TYPICAL WOOD DETAILS
S4.2	FLOOR DETAILS
S4.3	DECK DETAILS
S4.4	WOOD DETAILS
S4.5	PARAPET AND FLAT ROOF DETAILS
S5.0	STEEL DETAILS
S6.0	WOOD AND STEEL DETAILS



length	elevation	axb	
29.5	59	1740.5	
31	60	1860	
37	60.1	2223.7	
19	59.2	1124.8	
8	59.1	472.8	
12	59.1	709.2	
<b>136.5</b>		<b>8131</b>	
		<b>59.57 average grade</b>	

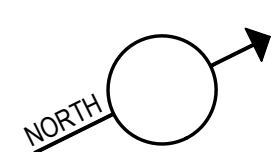
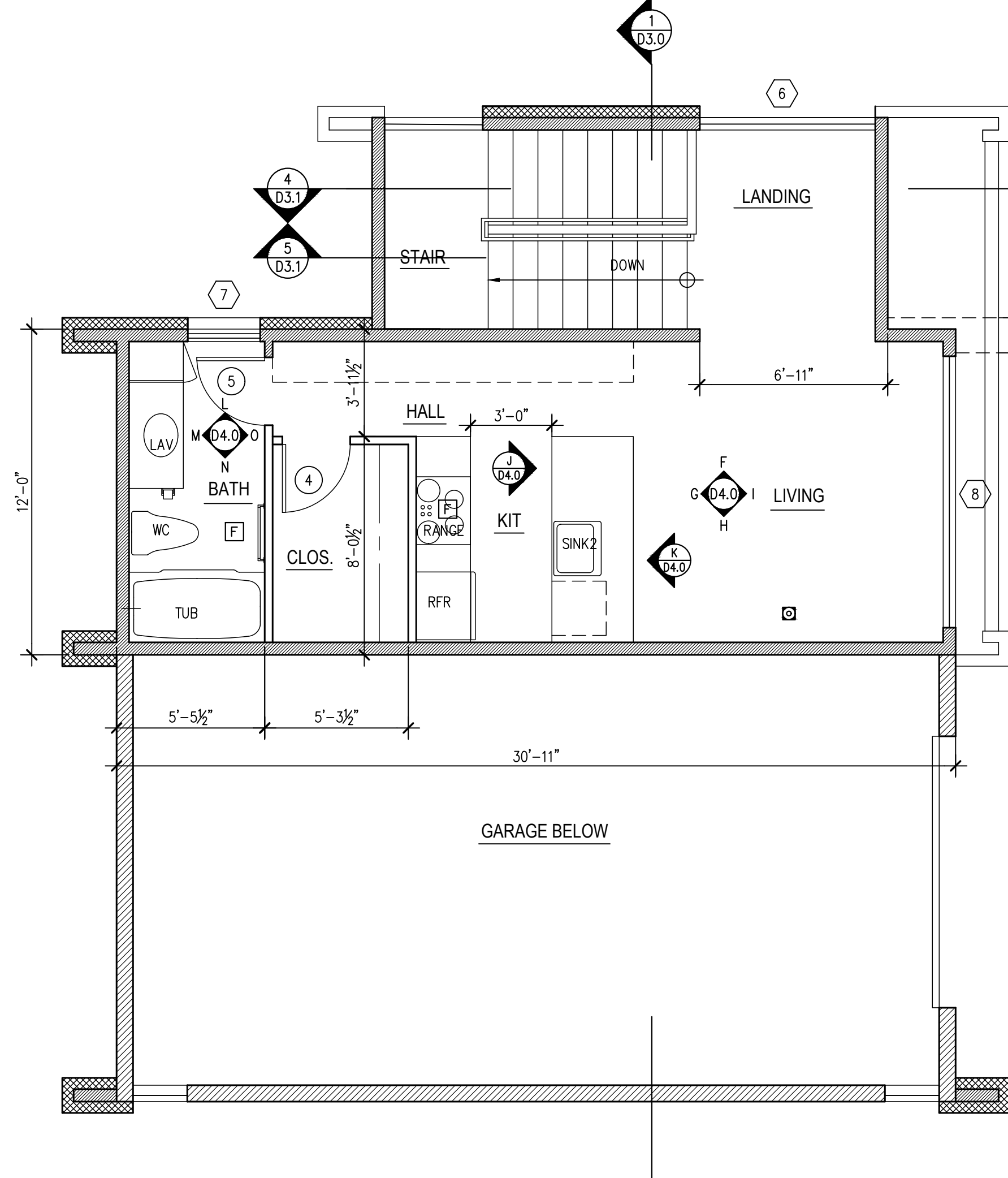






**ROOF PLAN**

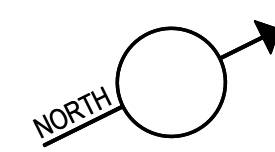
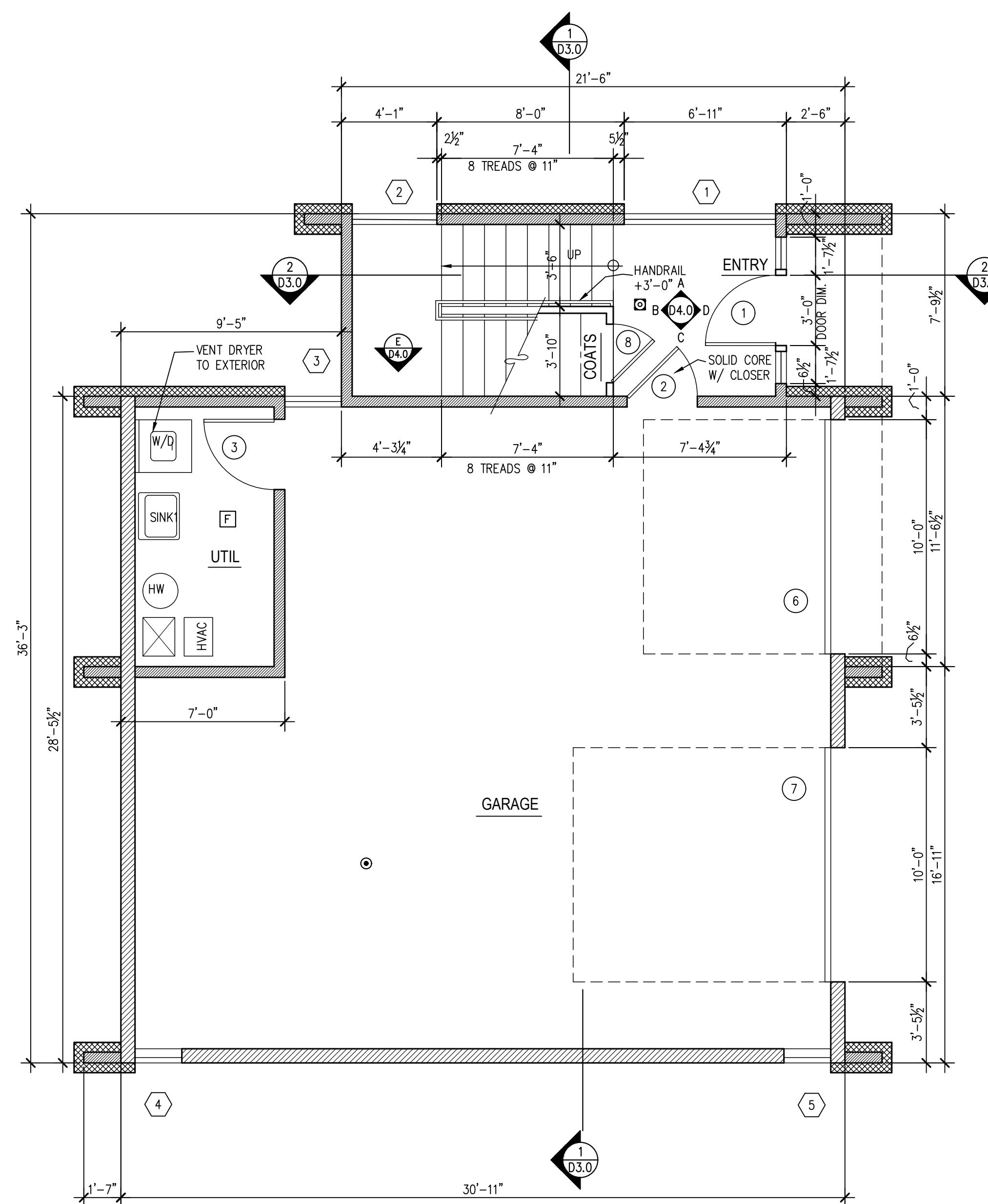
1/4" = 1'-0"



**UPPER FLOOR**

383 SQUARE FEET CONDITIONED FLOOR AREA

1/4" = 1'-0"

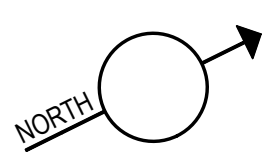
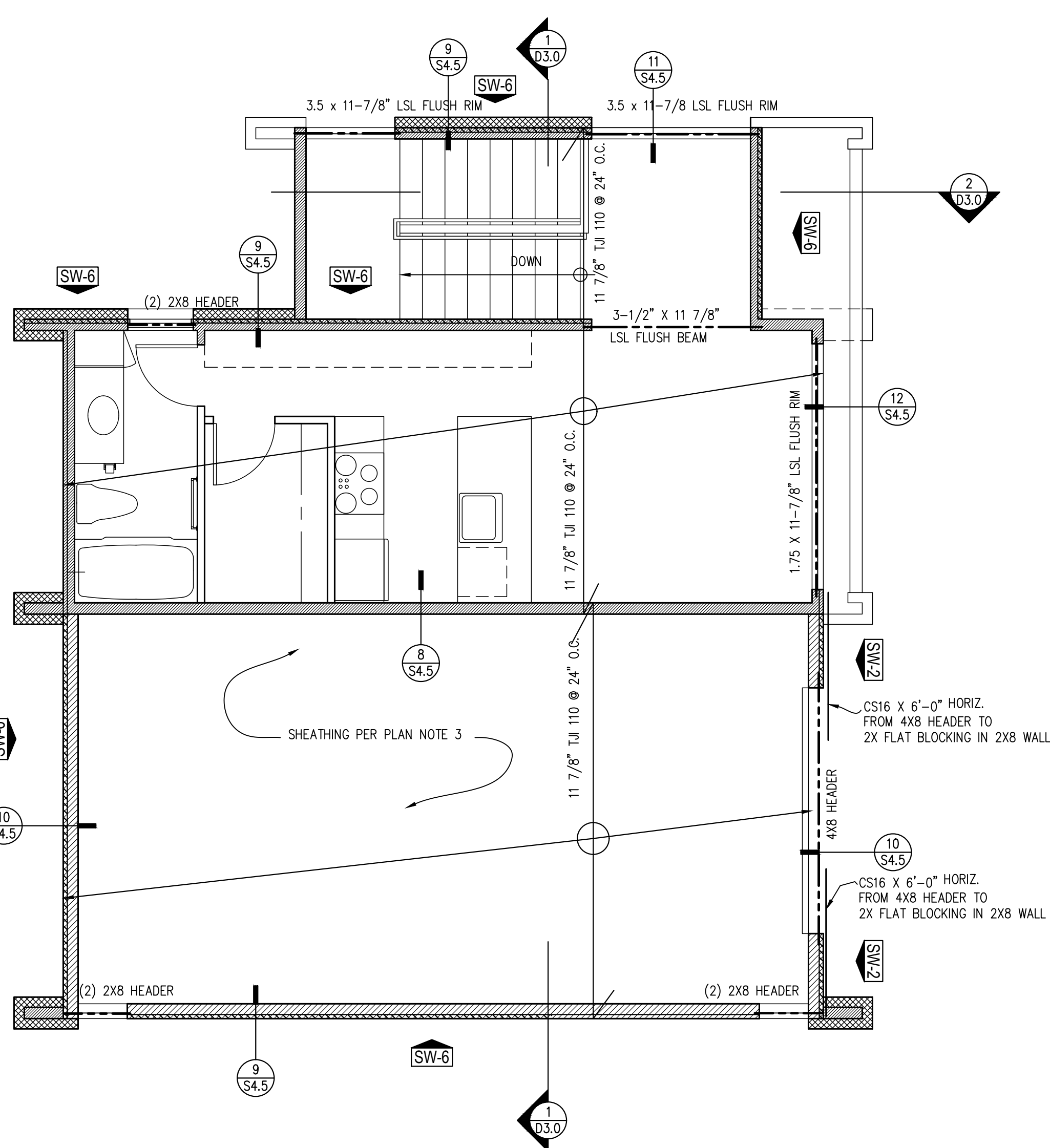


**MAIN FLOOR**

199 SQUARE FEET CONDITIONED FLOOR AREA  
740 SQUARE FEET NON-CONDITIONED GARAGE AREA

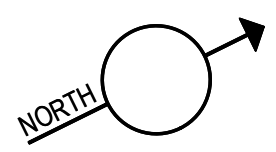
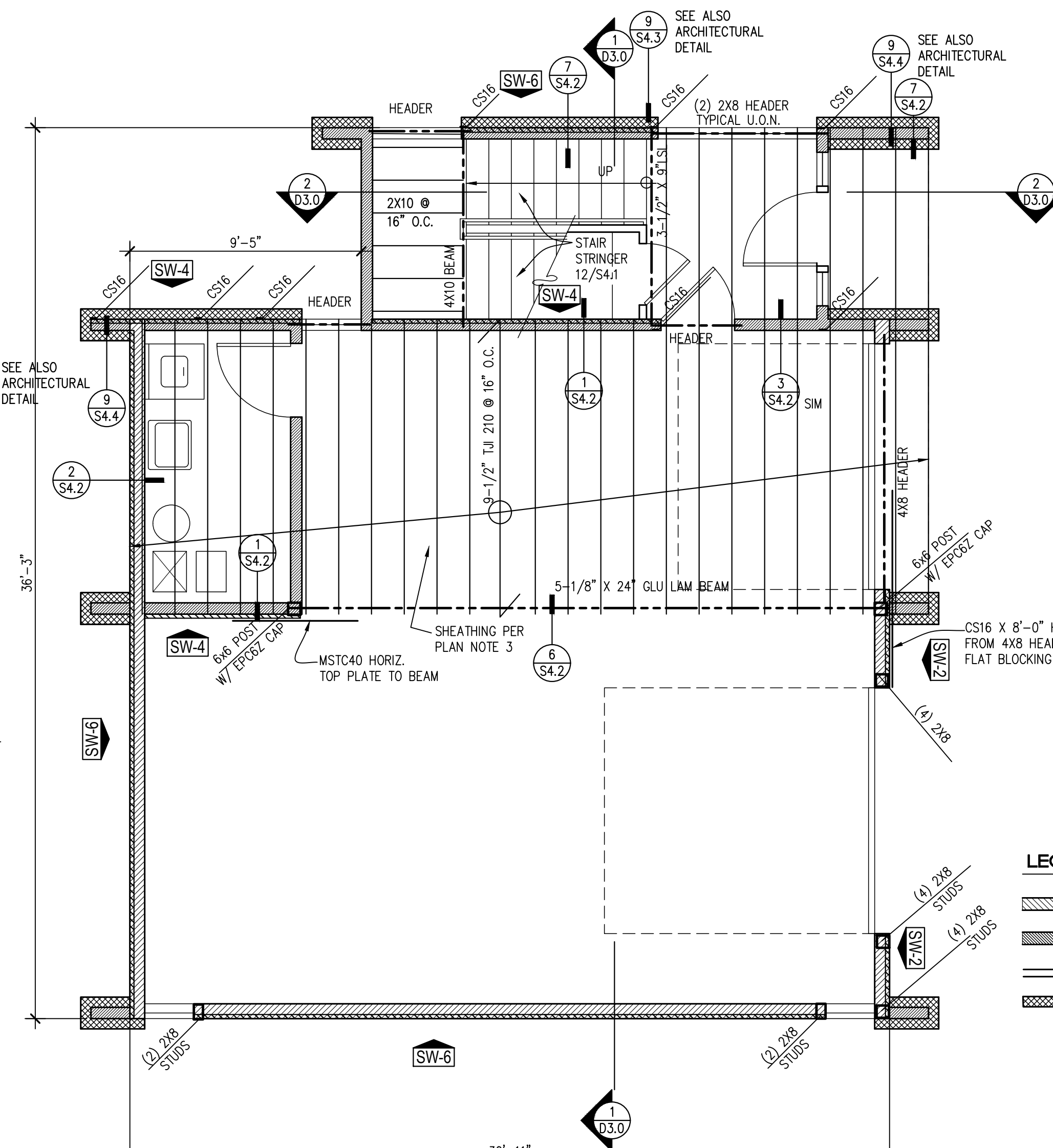
1/4" = 1'-0"

- NOTE:  
SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS.
- ☐ COMBO-SMOKE/CARBON MONOXIDE DETECTOR (S/DM)
  - ⊙ HEAT DETECTOR
  - ⊞ EXHAUST FAN (VENT TO EXTERIOR) 50 CFM, 100 CFM AT HOOD



**ADU ROOF FRAMING PLAN**

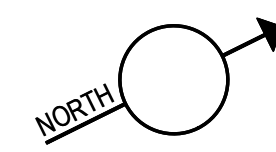
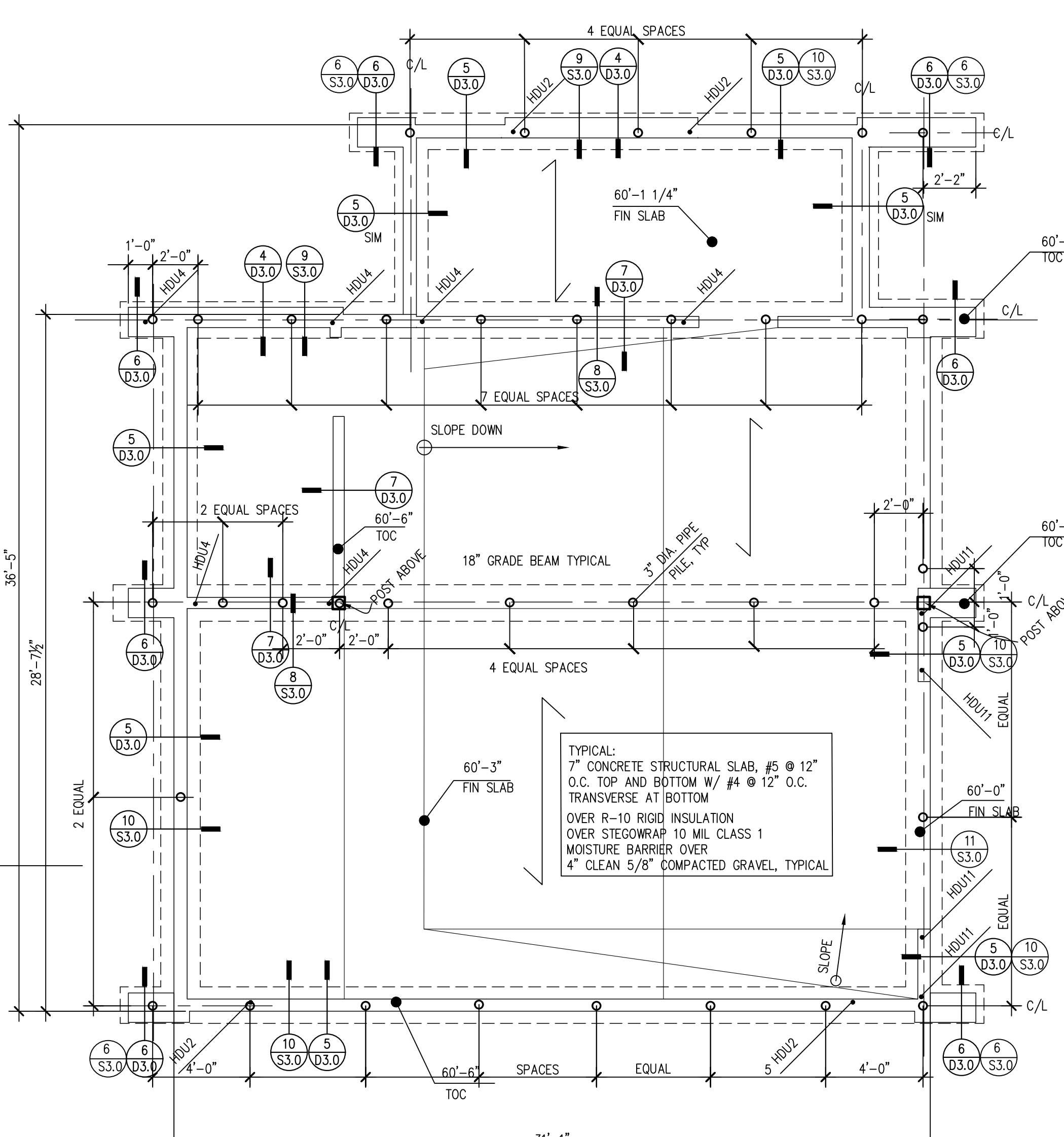
1/4" = 1'-0"



**ADU UPPER FLOOR FRAMING PLAN**

1/4" = 1'-0"

- LEGEND**
- NEW 2X8 STUDS @ 16" O.C.
  - NEW 2X6 STUDS @ 16" O.C.
  - NEW 2X4 STUDS @ 16" O.C.
  - NEW BRICK VENEER



**FOUNDATION PLAN**

1/4" = 1'-0"

- TOC - TOP OF CONCRETE
- FIN SLAB - FINISH SLAB ELEVATION
- - PIPE PILE SEE 10/S3.0





### ELECTRICAL SYMBOLS

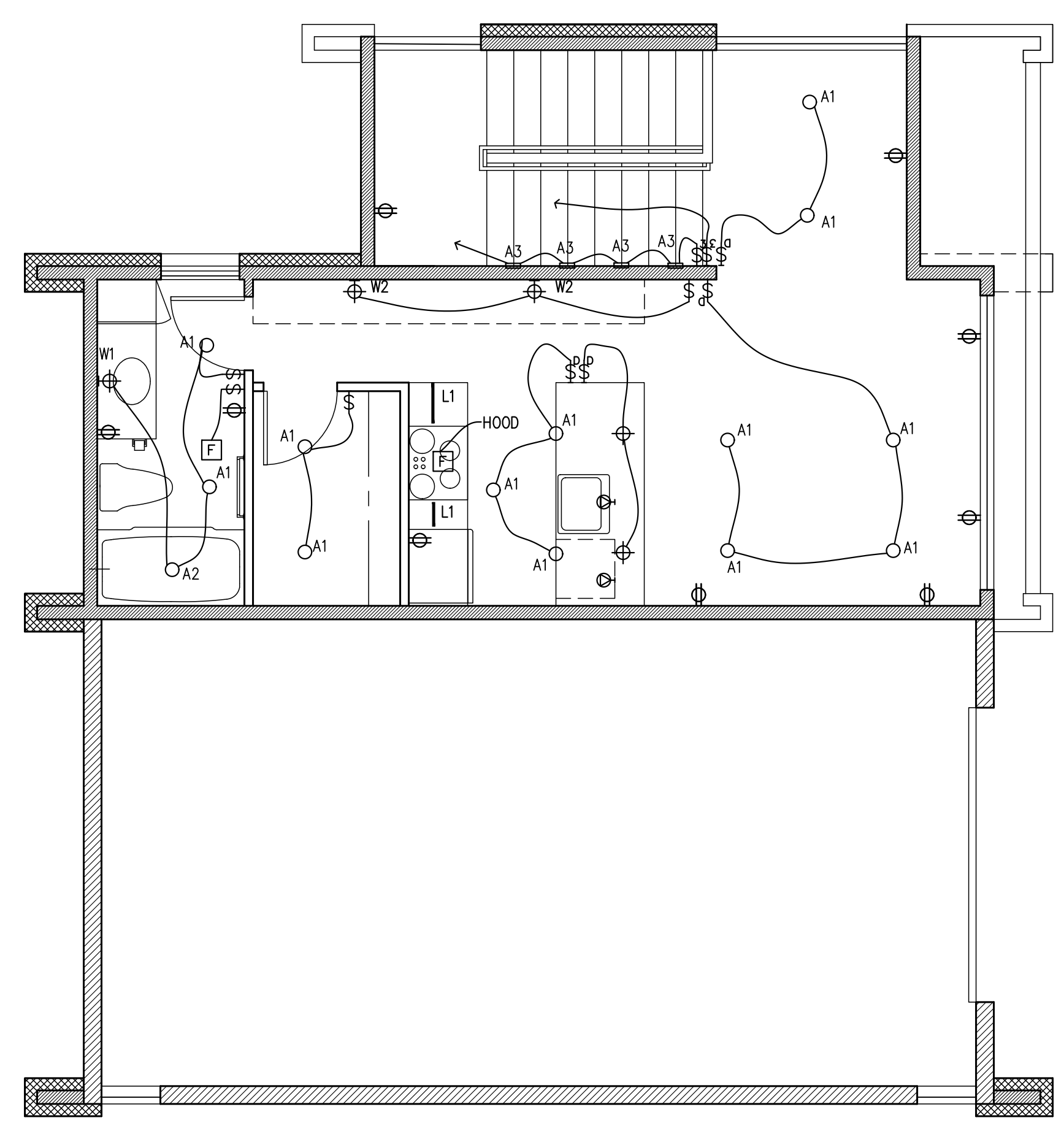
○	RECESSED LIGHT/ROUND TRIM	⚡	SWITCH
◻	RECESSED LIGHT/SQUARE TRIM	⚡	3-WAY SWITCH
⊕	WALL MOUNTED LIGHT	⚡	DIMMING SWITCH
⊕	SURFACE/PENDANT LIGHT	⚡	SWITCH W/ TIMER
●	WALLWASH LIGHT	⚡	SWITCH W/ OCCUPANCY SENSOR
⊕	FLOOD LIGHT	⊞	6-BUTTON KEYPAD, LUTRON
—	STRIP LIGHT	⊞	SMART DIMMER SWITCH, LUTRON
—	STEP LIGHT	⊞	DUPLEX RECEPTACLE
⊞	CERAMIC SOCKET	⊞	DUPLEX RECEPT. /HALF-SWITCHED
⊞	SMOKE DETECTOR (SD)	⊞	DUPLEX RECEPT. W/ DUAL USB-C
⊞	CARBON MONOXIDE DETECTOR (CM)	⊞	FOURPLEX RECEPTACLE
⊞	COMBO-SMOKE/CARBON MONOXIDE DETECTOR (S/CM)	⊞	FLOOR RECEPTACLE
⊞	HEAT DETECTOR	⊞	CEILING/SOFFIT RECEPTACLE
⊞	EXHAUST FAN (VENT TO EXTERIOR)	⊞	1xV SPECIAL PURPOSE
⊞	CENTRAL VACUUM WALL PORT	⊞	2xV SPECIAL PURPOSE
⊞	MOTION SENSOR	⊞	TELEPHONE
⊞	DOORBELL	⊞	TELEVISION
⊞	THERMOSTAT	⊞	TELEVISION/MULTI-FUNCTION CABLE
⊞	GARAGE DOOR CONTROL PANEL	⊞	CAT 6 COMPUTER NETWORK/DATA
⊞	CIRCUIT BREAKER PANEL	⊞	FIBER OPTIC OUTLET
⊞	METER	⊞	SPEAKER OUTLET
		⊞	SOUND SPEAKER
		⊞	WINDOW SHADE

### ELECTRICAL LEGEND

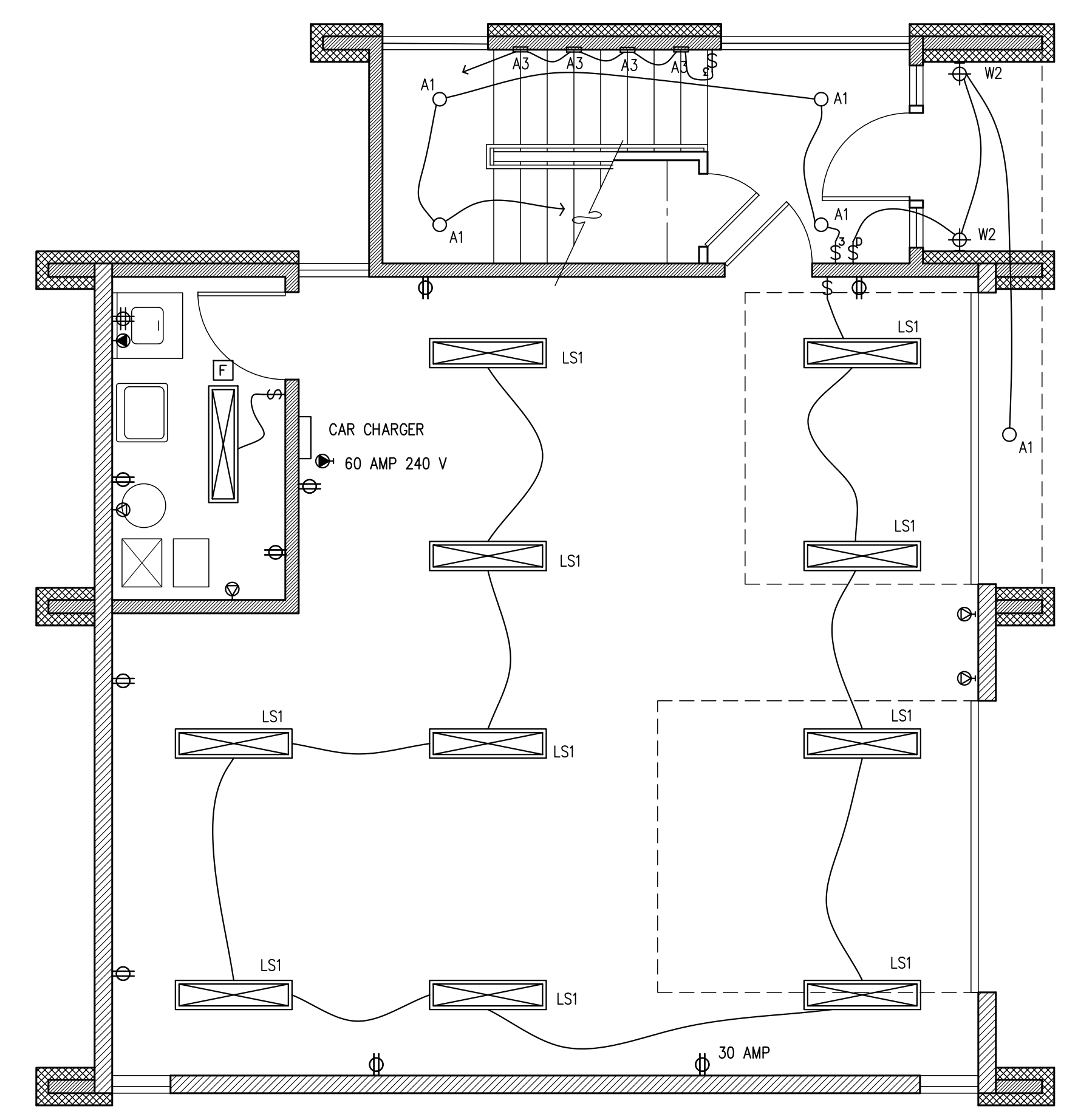
MARK	DESCRIPTION	MANUF.	MODEL NO.	FINISH / TRIM	LAMP
A1	DOWNLIGHT	NORA	NLCBS-4W51-85-30-MPW	NHSIC-485LE3LT	-
A2	SHOWER LIGHT	NORA	NL-427W-	NSERIC-407A1/20	20W/LED
A3	STEP LIGHT	NORA	NSW-851/32BN		3W/LED
F	FAN	PANASONIC	FV-0511VFC1	-	N/A
LS1	SURFACE	NORA	NLSIR-4L1334W		24W
L1	UNDERCABINET	NWLED	LNF12-NT-F-MB-30K		
W1	WALL LIGHT	TBS			
W2	WALL LIGHT	BECA	33817-K3	BLACK	-

NOTE:  
ALL SWITCHES AND OUTLETS TO BE LEVITON WHITE  
ALL SWITCHES TO BE LEVITON ROCKER ARM TYPE AND DIMMERS TO HAVE SLIDE BAR CONTROL

LAM48408R259730DEC0103MB



**UPPER FLOOR ELECTRICAL PLAN**  
1/4" = 1'-0"



**MAIN FLOOR ELECTRICAL PLAN**  
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**SOILS**  
REFER TO TABLE R401.4.1 FOR MAXIMUM LOAD-BEARING VALUES OF FOUNDATION MATERIALS UNLESS ENGINEERING INFORMATION IS PROVIDED. ALL FOOTINGS AND SLABS SHALL BEAR ON UNYIELDING SOIL. UNLESS A SOILS REPORT BY A SOILS ENGINEER IS PROVIDED AND ATTACHED THIS OFFICE ASSUMES NO RESPONSIBILITY AS TO THE PHYSICAL CHARACTERISTICS OF THE SOIL. FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 2,000 PSF. ALL FOOTINGS SHALL BE CAST ON UNDISTURBED FIRM NATURAL SOIL OR COMPACTED SOIL OF 2,000 PSF BEARING CAPACITY AT LEAST 1'-6" BELOW LOWEST ADJACENT GRADE, FREE OF ORGANIC MATERIALS. FOOTING EXCAVATION SHALL BE FREE OF LOOSE SOILS, DEBRIS, AND FREE WATER AT ALL TIMES. THIS OFFICE TAKES NO RESPONSIBILITY IN VERIFYING THE ACCURACY OF ENGINEERING DATA SUPPLIED BY OTHERS.

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**GLAZING**

TO BE IN COMPLIANCE WITH IRC SEC. R308, AND WASHINGTON STATE SAFETY GLASS LAW. EXCEPTIONS ARE AS OUTLINED IN IRC SEC R308.4.

GLAZING IN HAZARDOUS LOCATIONS SUBJECT TO HUMAN IMPACT SHALL BE SAFETY OR TEMPERED GLASS. HAZARDOUS LOCATIONS ARE:  
GLAZING IN SWNGING DOORS EXCEPT JALOUSIES  
GLAZING IN FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES AND PANELS IN SWNGING DOORS OTHER THAN WARDROBE DOORS.  
GLAZING IN STORM DOORS  
GLAZING IN ALL UNFRAMED SWINGING DOORS  
GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A STANDING SURFACE AND DRAIN INLET.  
GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.  
GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN THOSE ABOVE, THAT MEETS ALL OF THE FOLLOWING CONDITIONS:  
1. EXPOSED AREA ON AN INDIVIDUAL PANE GREATER THAN 9 SQUIRE FEET  
2. EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR  
3. EXPOSED TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR  
4. ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING

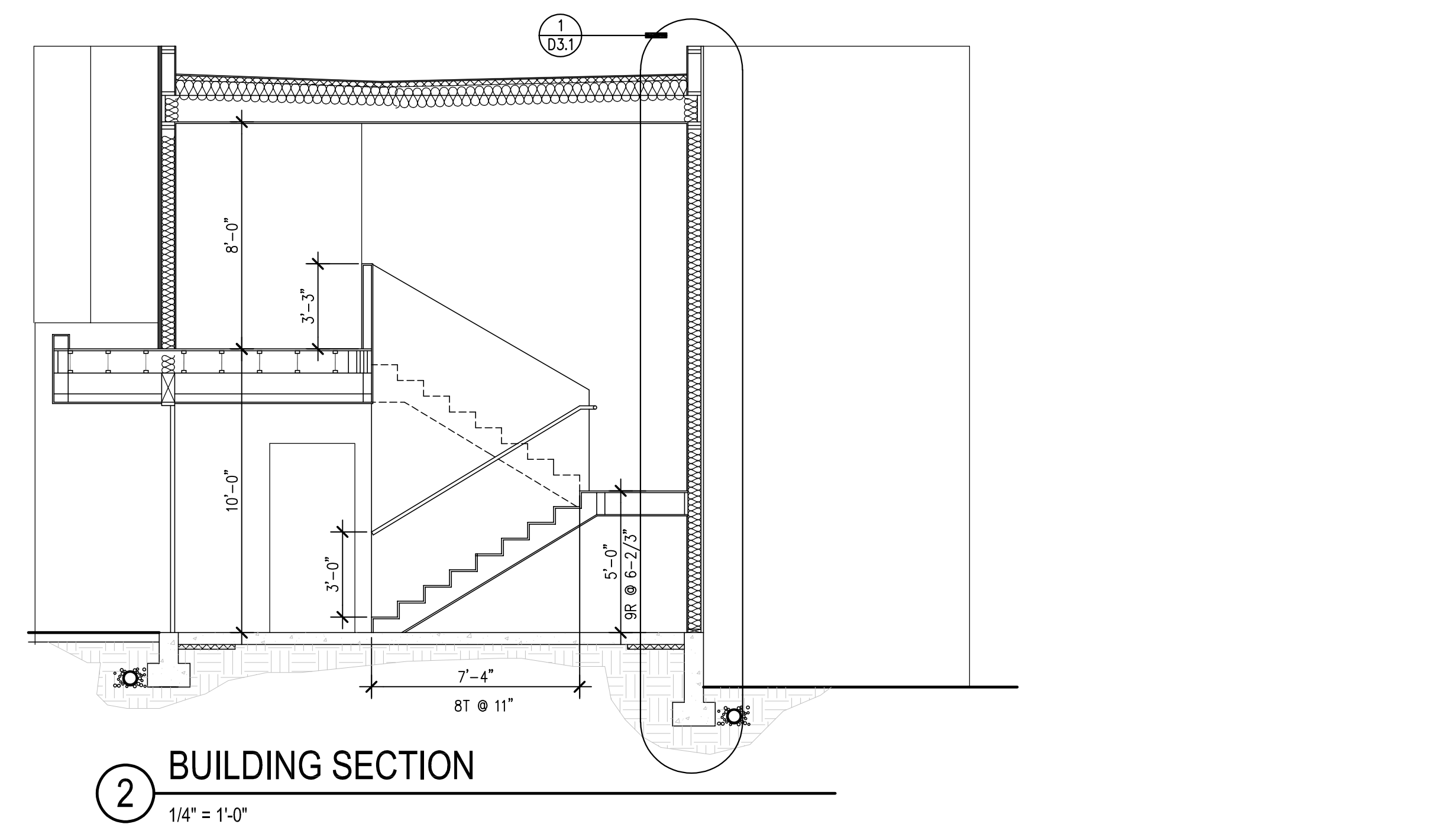
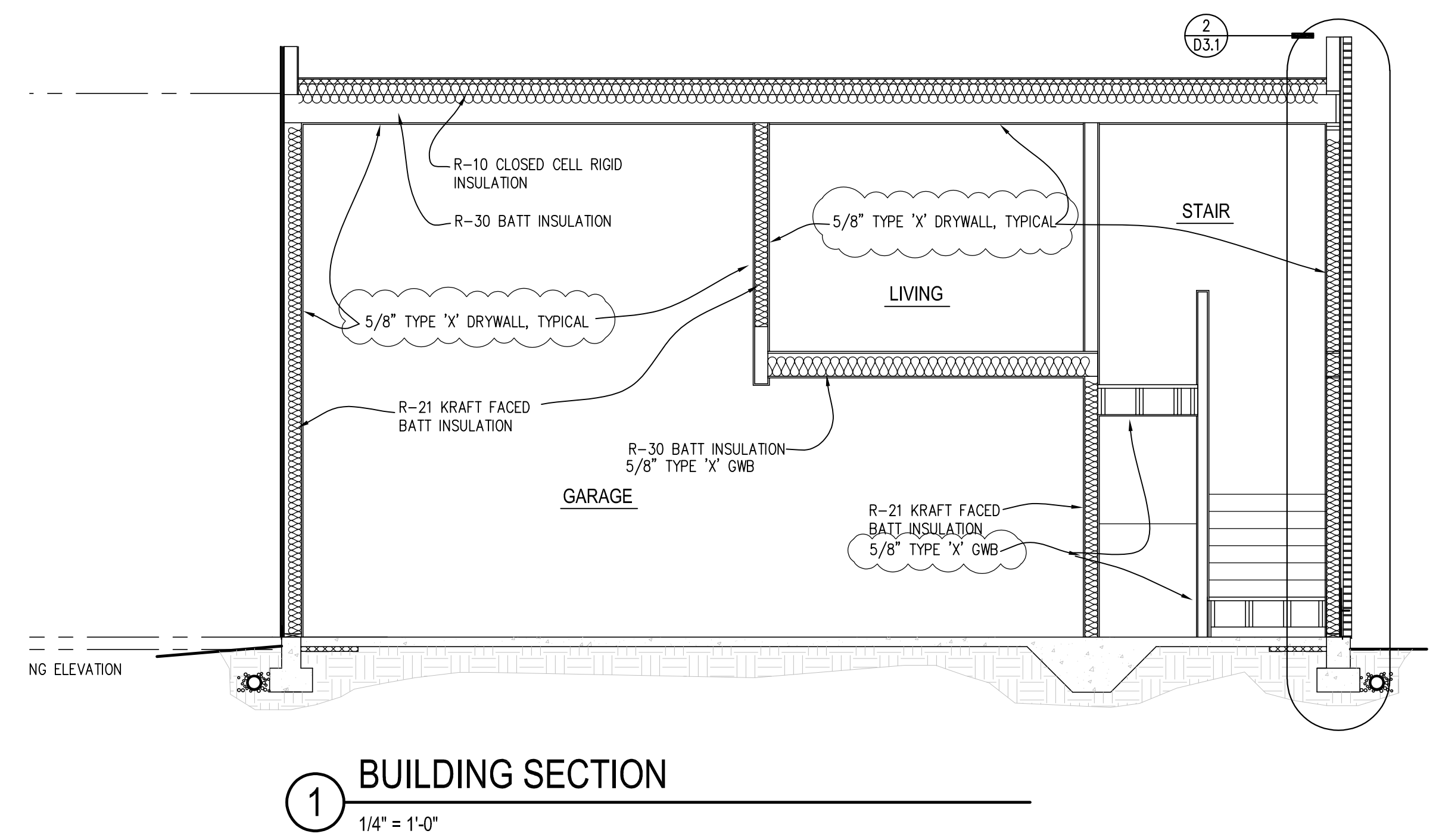
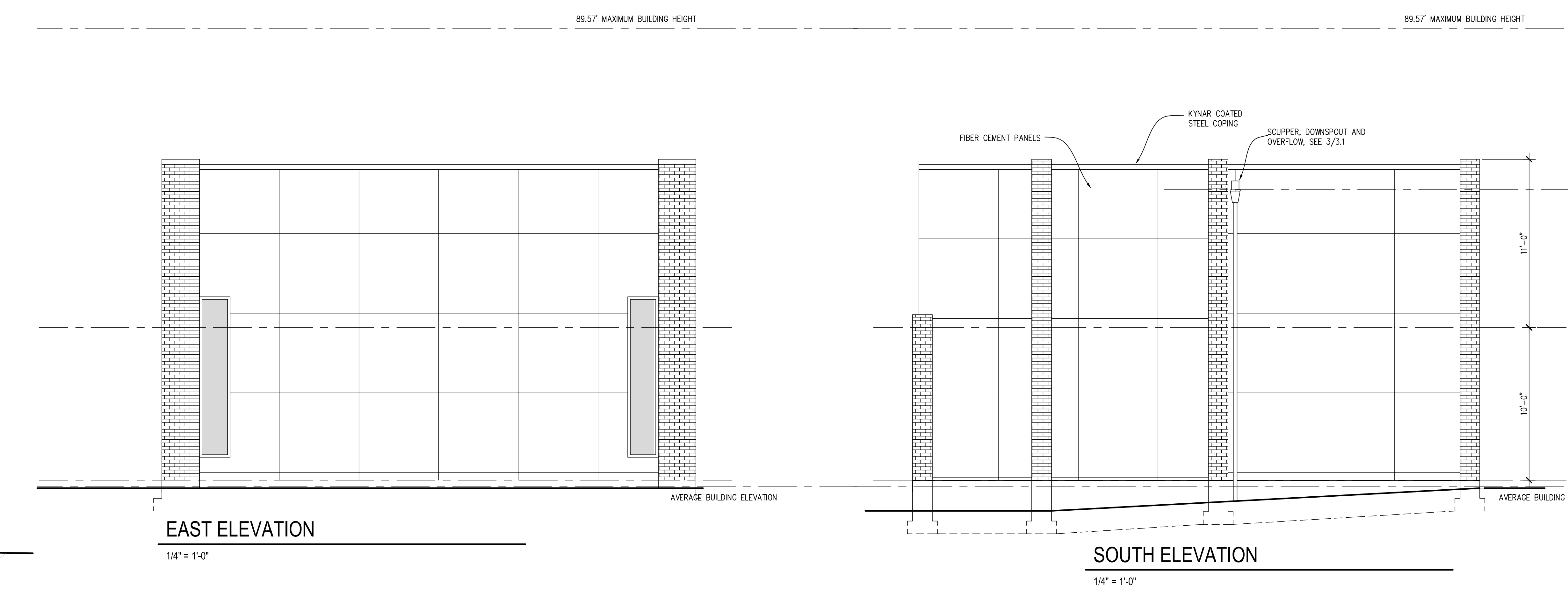
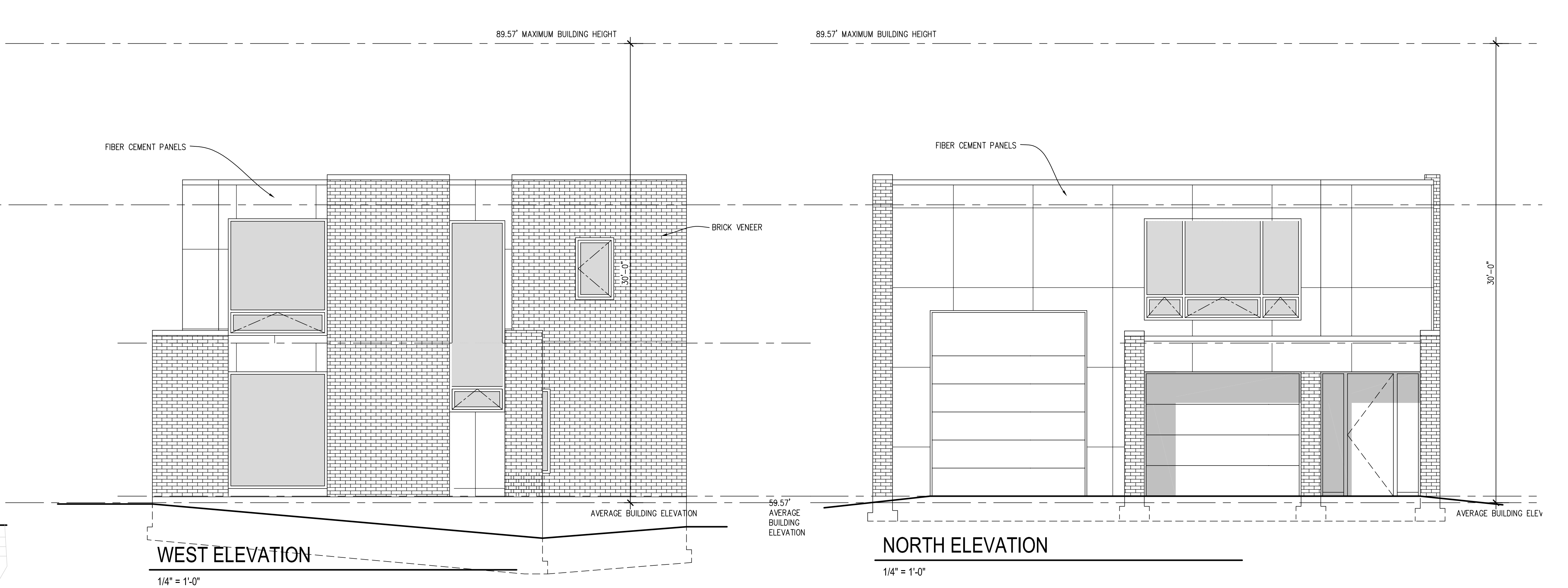
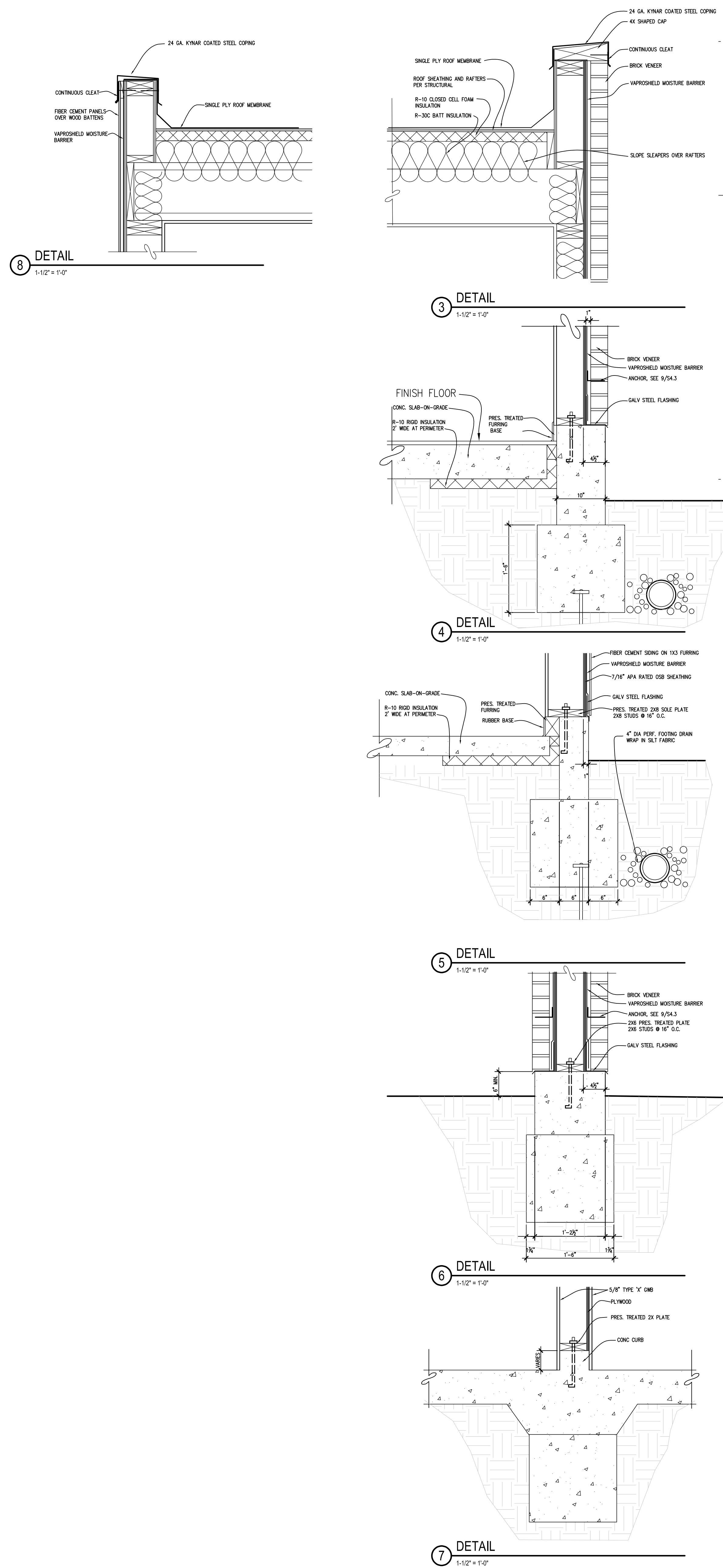
GLAZING IN RAILINGS REGARDLESS OF HEIGHT.  
GLAZING IN WARDROBE DOORS SHALL MEET THE IMPACT TEST REQUIREMENTS FOR SAFETY GLAZING AS SET FORTH IN UBC STANDARD NO. 24-2, PART II.  
GLAZING IN WALLS AND FENCES USED AS THE BARRIER FOR INDOOR AND OUTDOOR SWIMMING POOLS AND SPAS WHEN ALL OF THE FOLLOWING CONDITIONS ARE PRESENT:  
THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE  
THE GLAZING IS WITHIN 5 FEET OF A SWIMMING POOL OR SPA WATER'S EDGE  
GLAZING ADJACENT TO STARWAYS, LANDINGS AND RAMPS WITHIN 36" HORIZONTALLY OF A WALKING SURFACE WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 60" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE.  
GLAZING ADJACENT TO STAIRWAYS, WITHIN 60" HORIZONTALLY OF THE BOTTOM TREAD OF A STAIRWAY IN ANY DIRECTION WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 60" ABOVE THE NOSE OF THE TREAD.  
EGRESS IN EVERY SLEEPING ROOM SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24" MINIMUM NET CLEAR OPENING WIDTH DIMENSION OF 20" AND A FINISHED SILL HEIGHT NOT MORE THAN 44" ABOVE THE FLOOR. IRC SEC. R310.1

IN ROOMS NOT PROVIDED WITH AN OPERABLE WINDOW OF 4% OF THE FLOOR AREA OR GREATER, A MECHANICAL VENTILATION SYSTEM, CAPABLE OF PROVIDING .35 AIR CHANGES PER HOUR, SHALL BE PROVIDED IRC SEC. R303 AND M1507.  
VENT DRYER, BATH FANS, AND RANGES/OVENS TO THE OUTSIDE.  
**STAIRS**  
MINIMUM HEADROOM 6'-8"; MINIMUM WIDTH 3'-0" CLEAR; MINIMUM TREAD 10"; MAXIMUM RISER 7 3/4"; HANDRAIL MINIMUM 34" AND MAXIMUM 38" ABOVE STAIR NOSING. HANDRAIL TO BE 1 1/2" CROSS SECTION AND 1 1/2" AWAY FROM WALL. INSTALL FIRE BLOCKING AT MID STRINGER SPAN AND AT WALL ALONG STRINGER. COVER WALLS AND SOFFITS OF USABLE SPACE UNDER STAIR WITH 5/8" TYPE "X" GYPSUM WALLBOARD. SEE SECTION R311.7

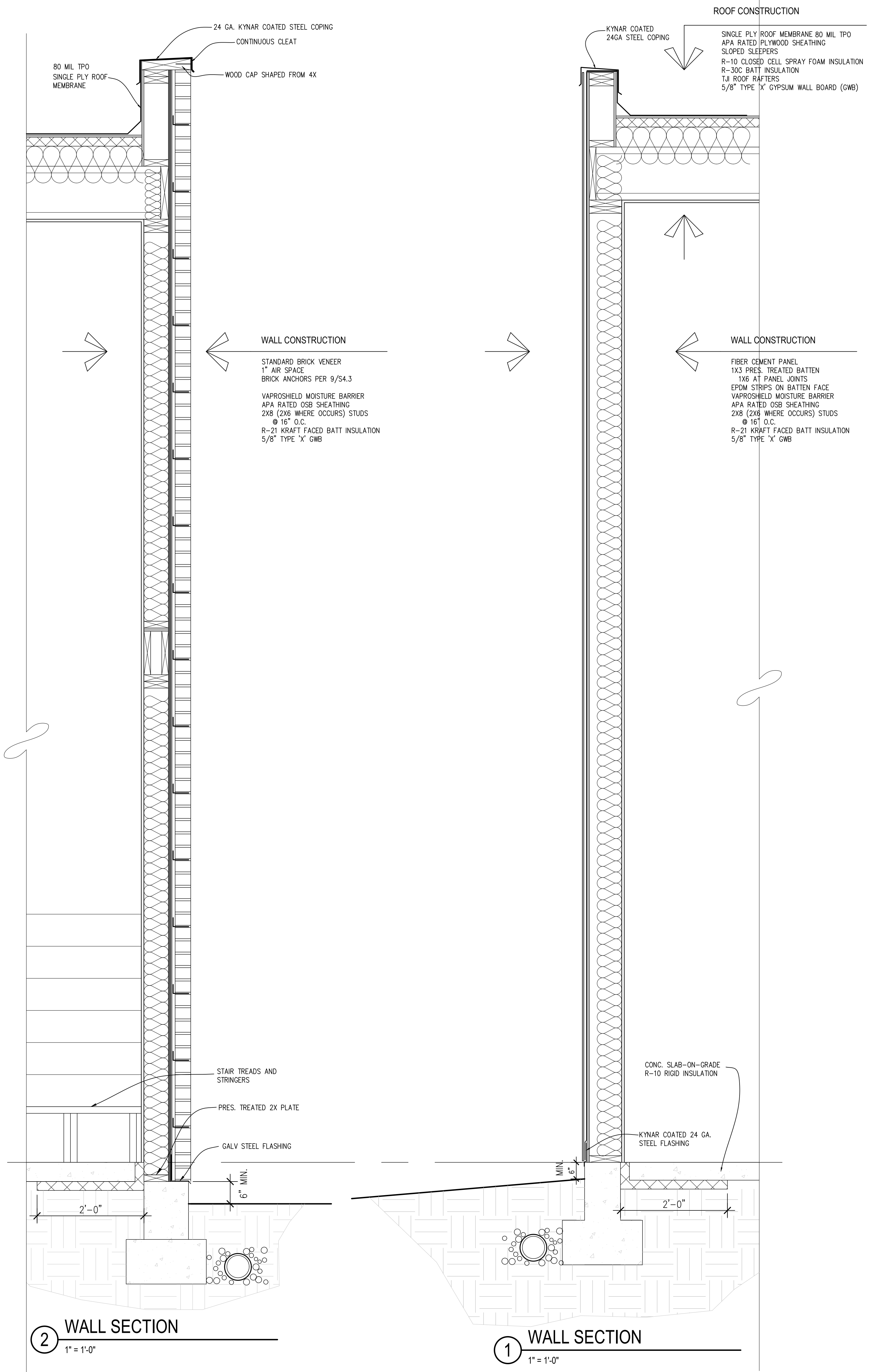
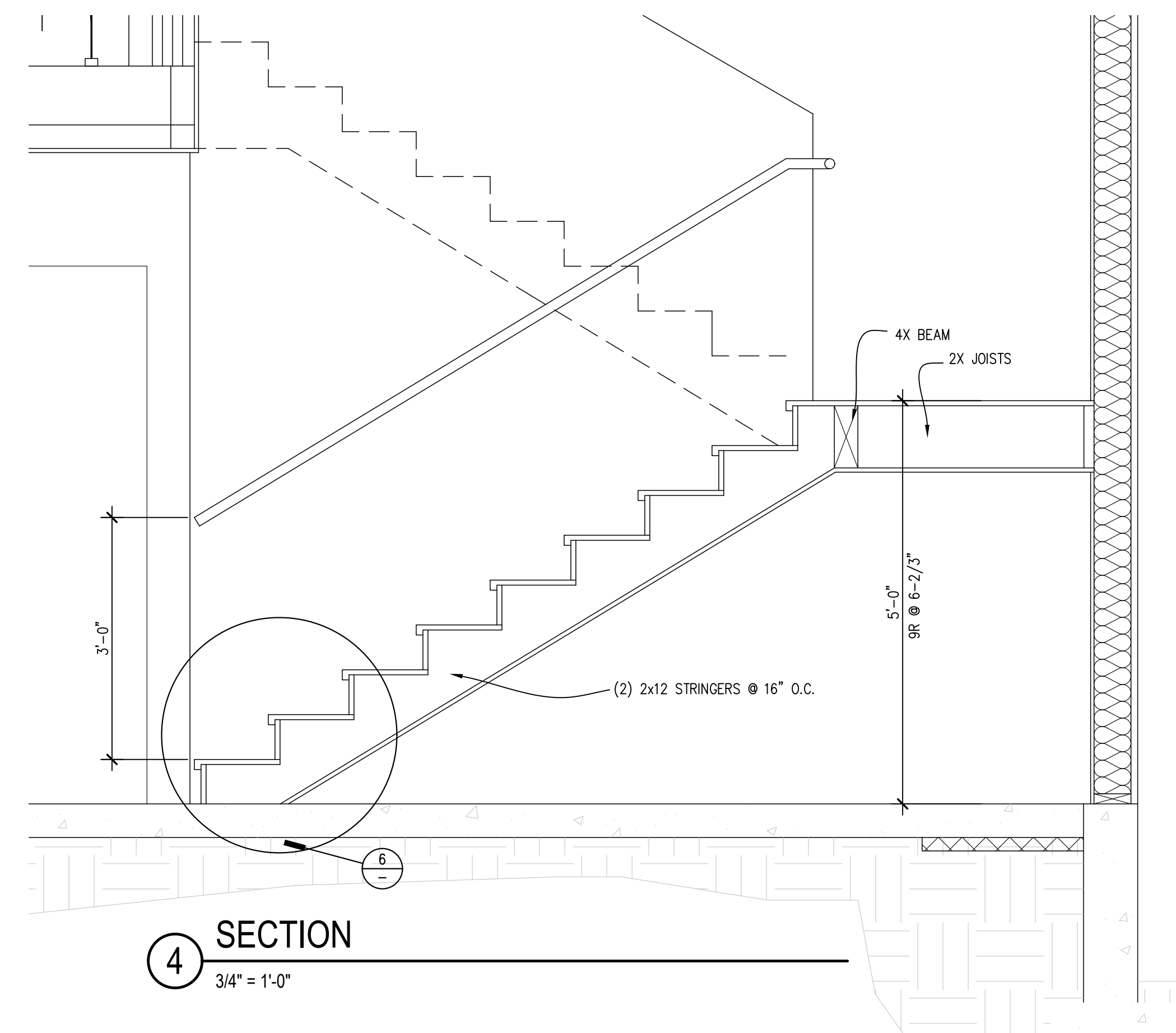
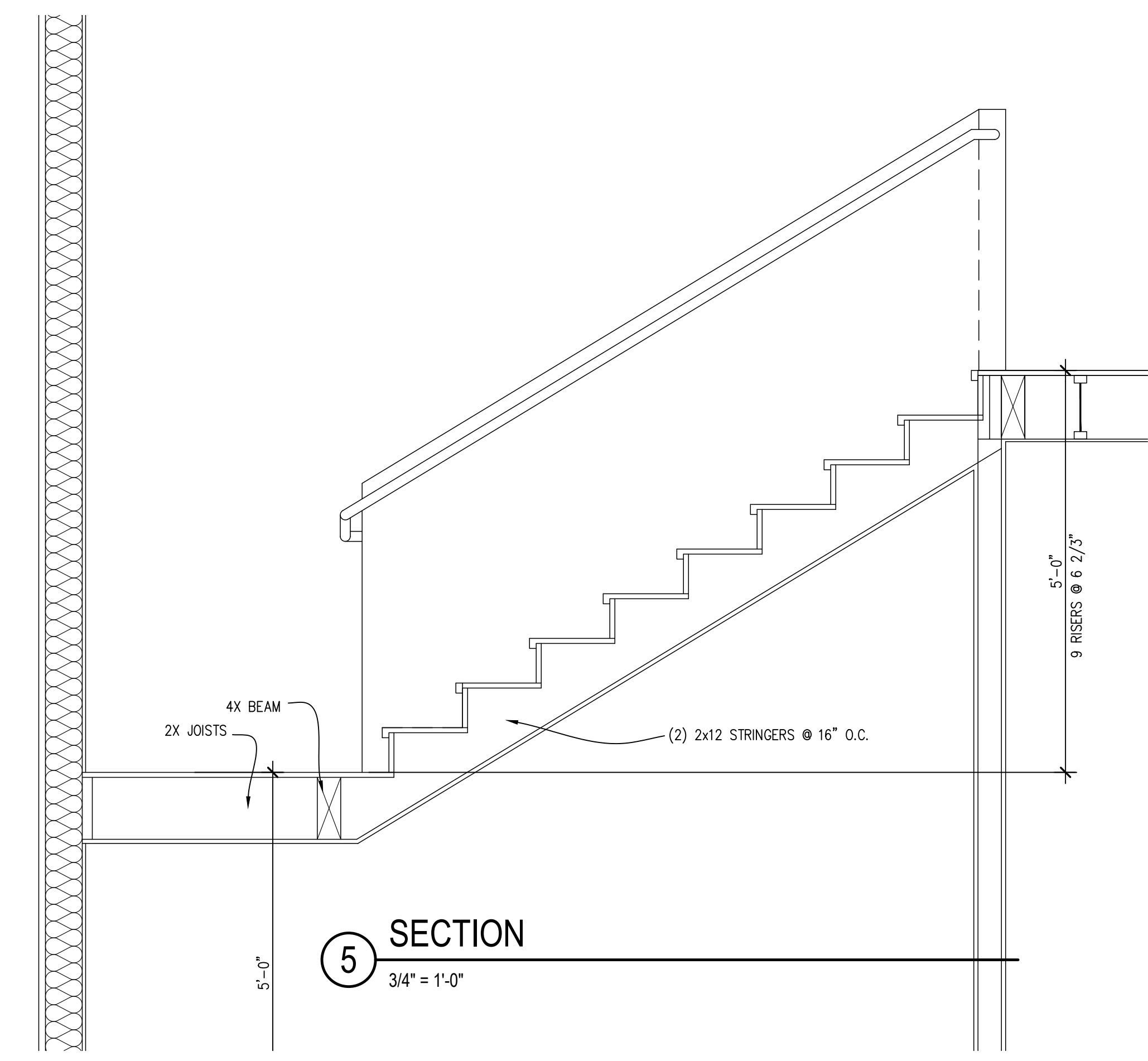
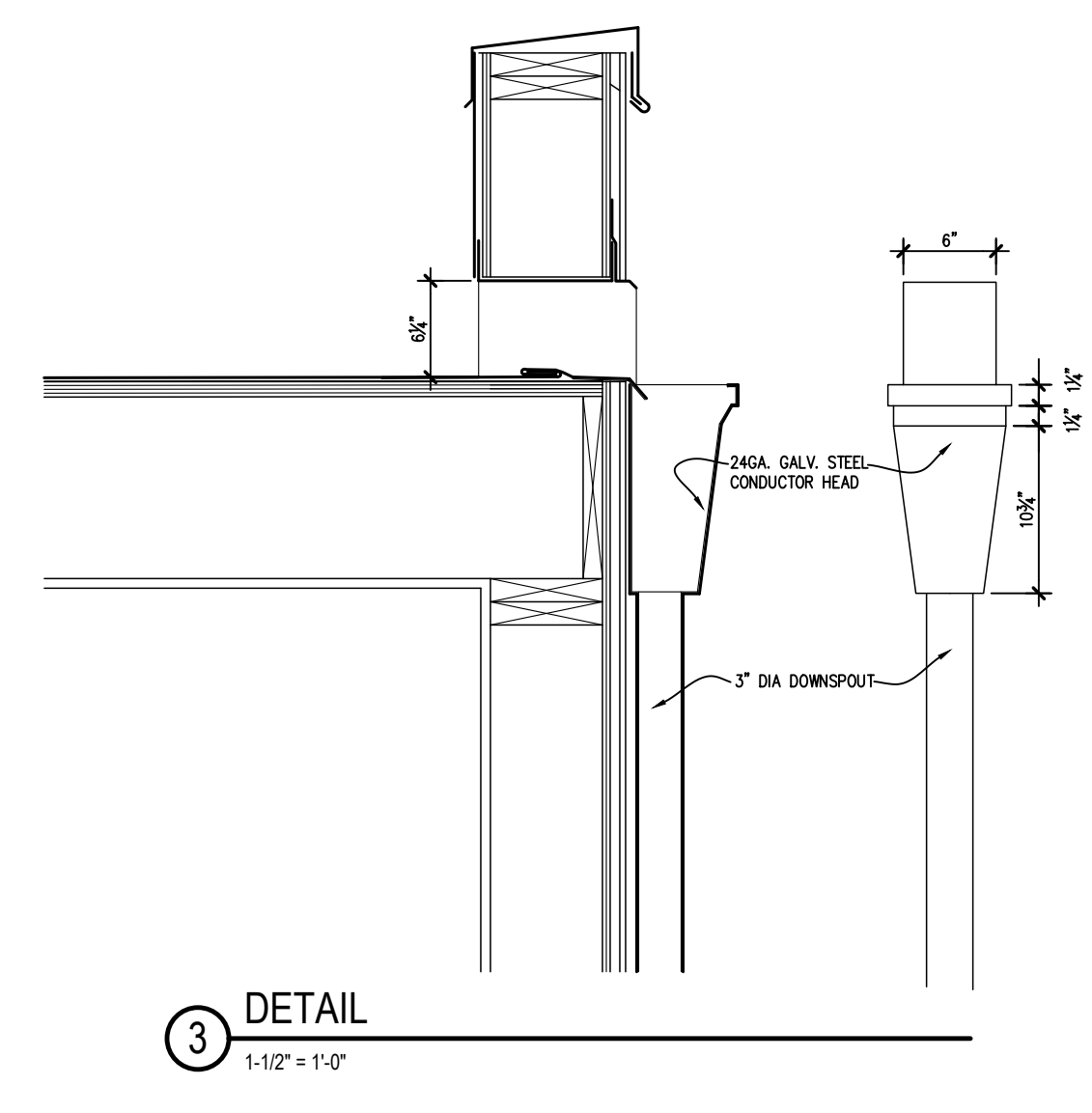
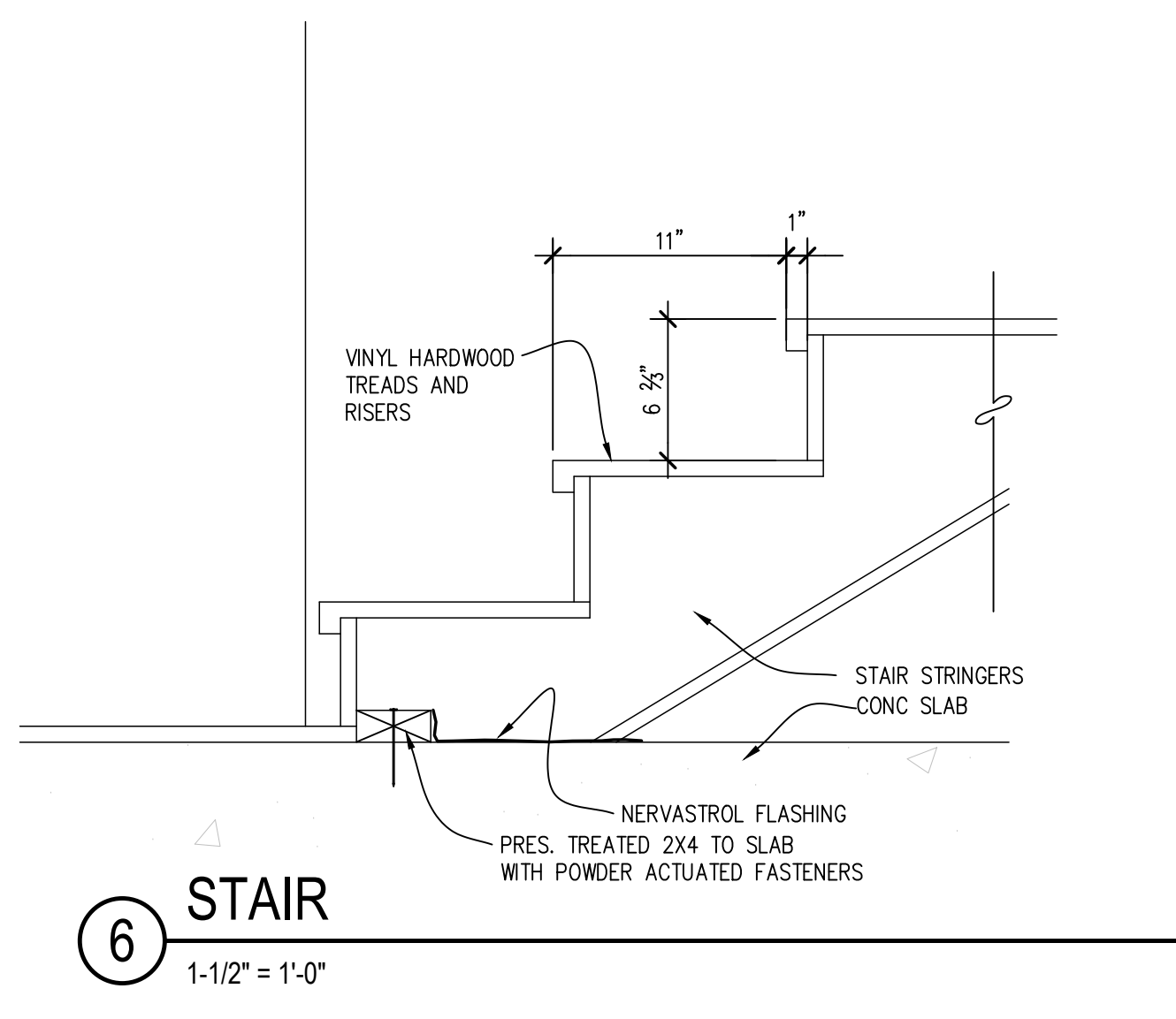


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Project No.	2222
Date:	9/8/23

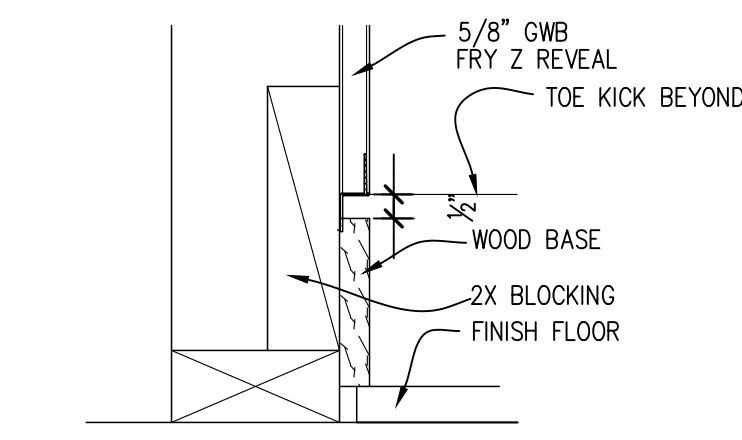




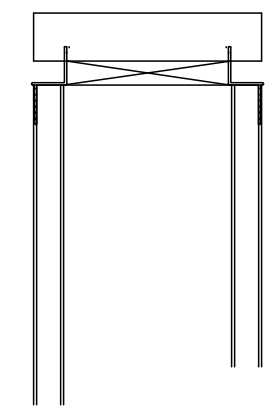


9/28/23 PRICING SET		
No.	Date	Revision

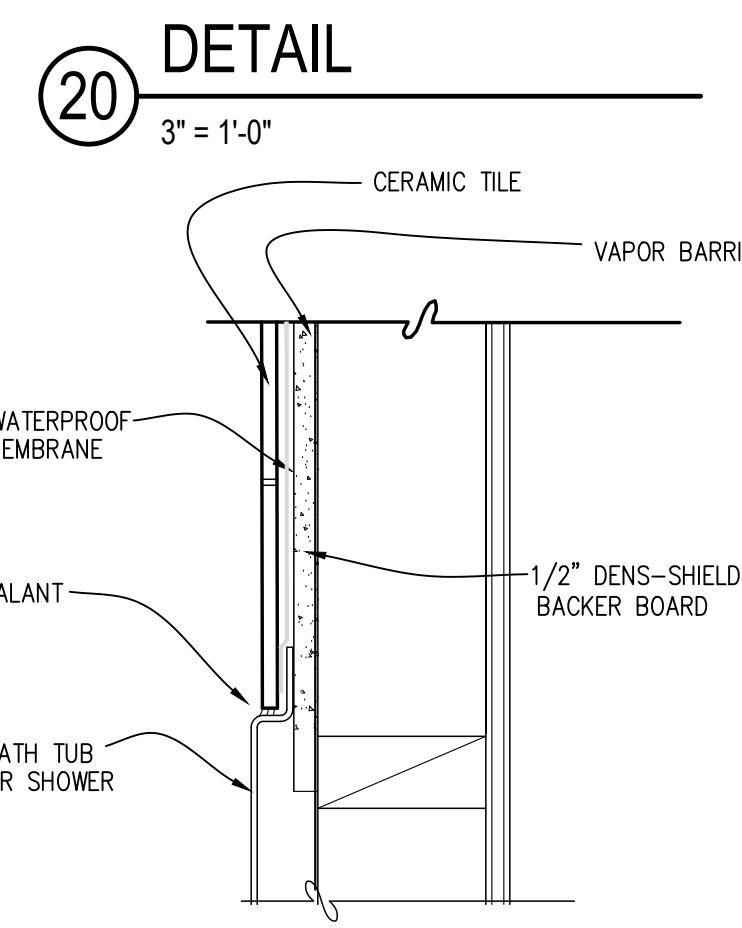




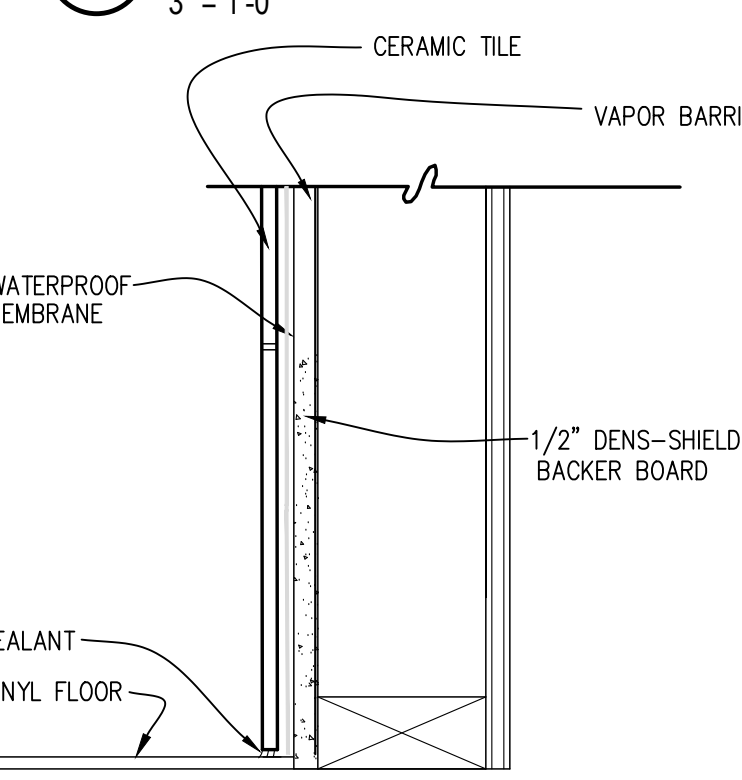
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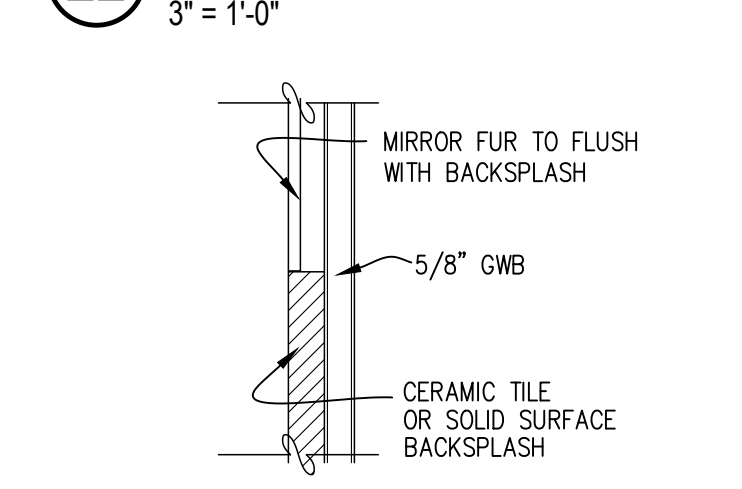
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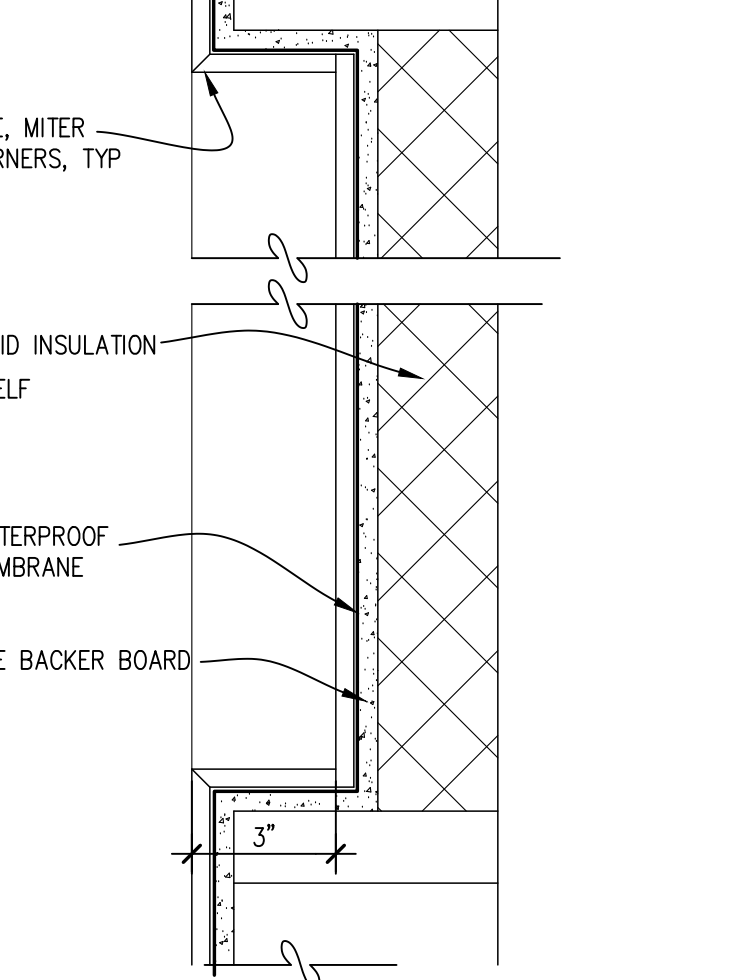
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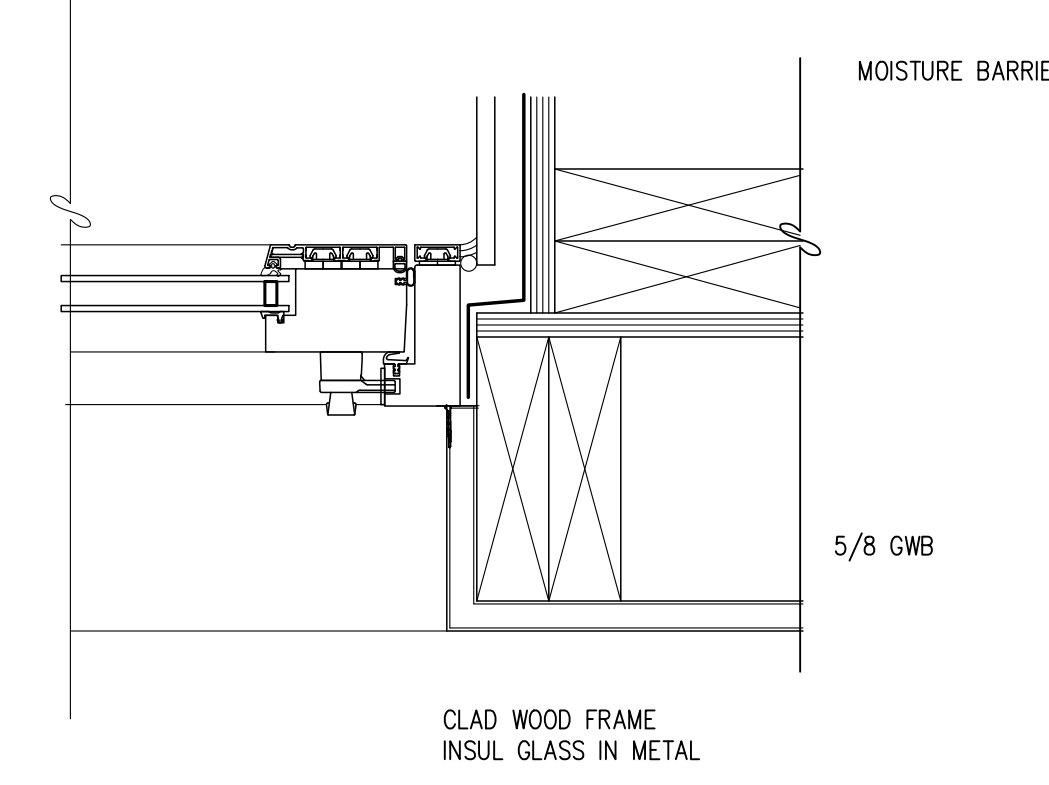


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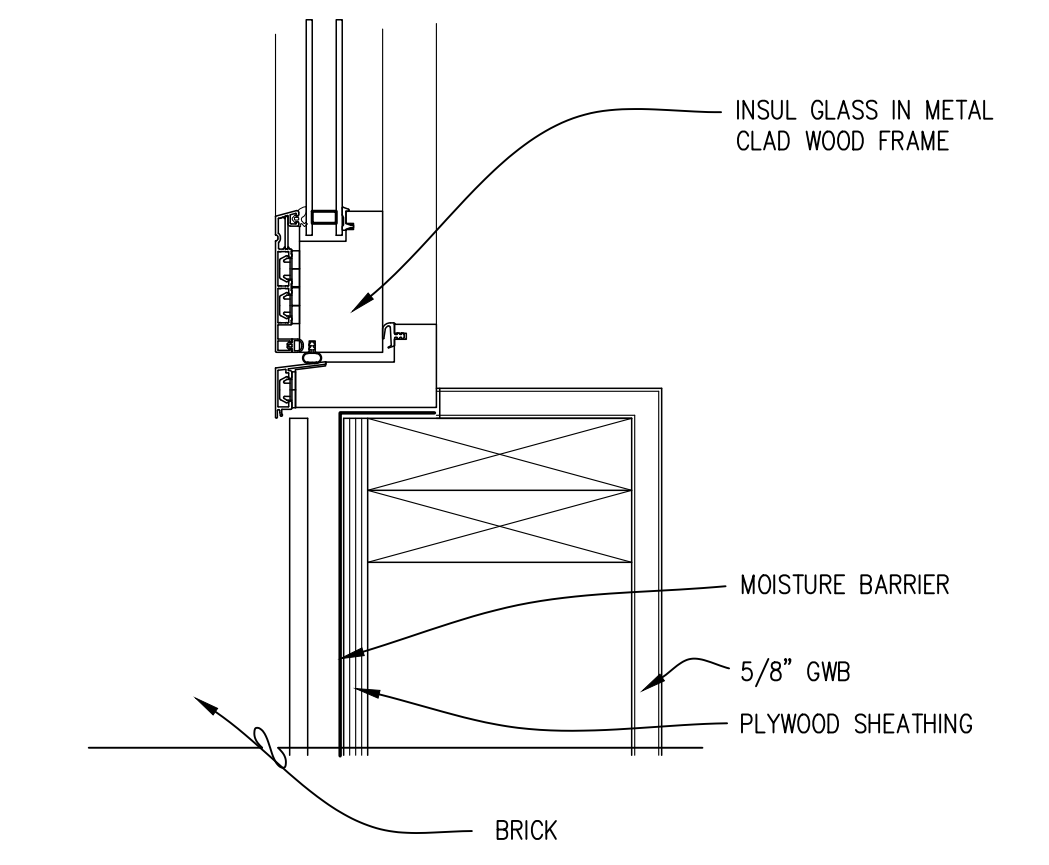


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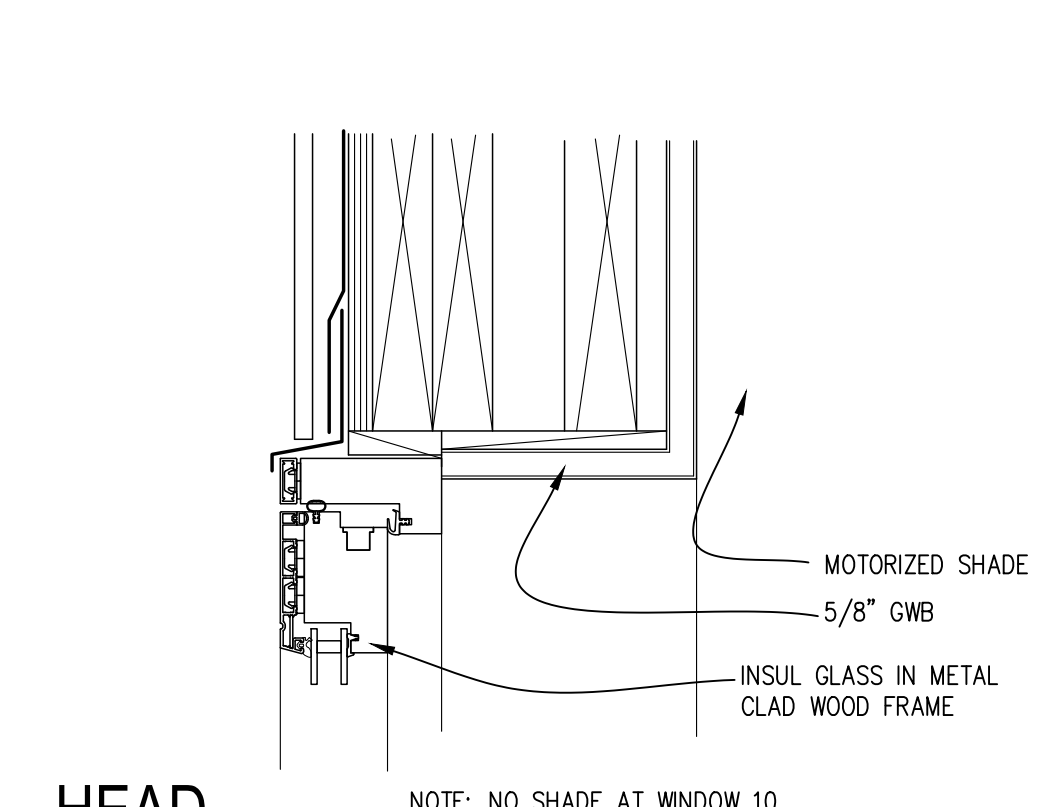
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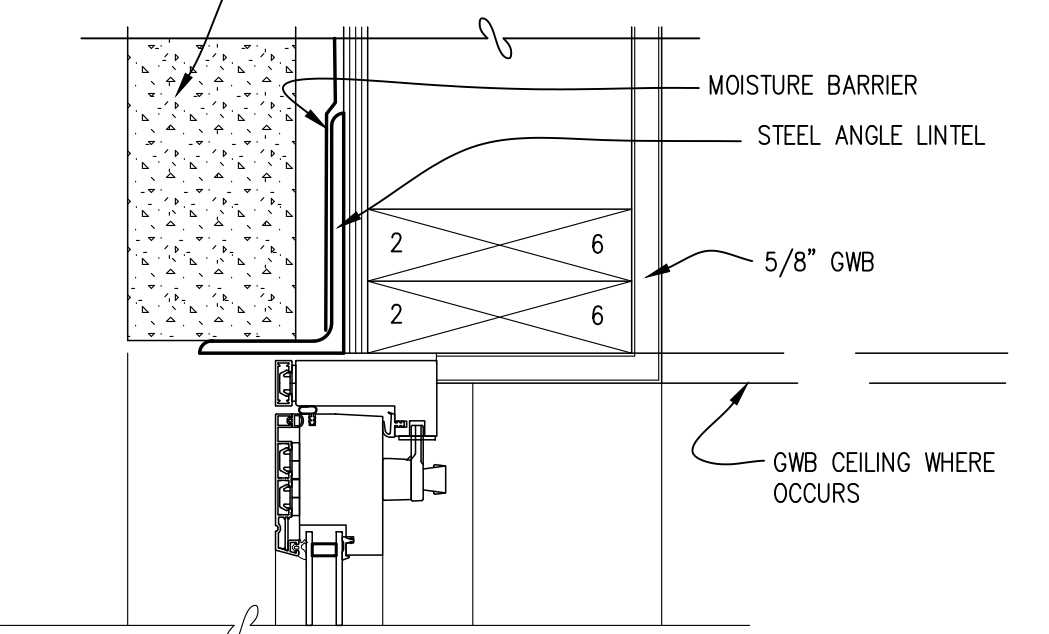
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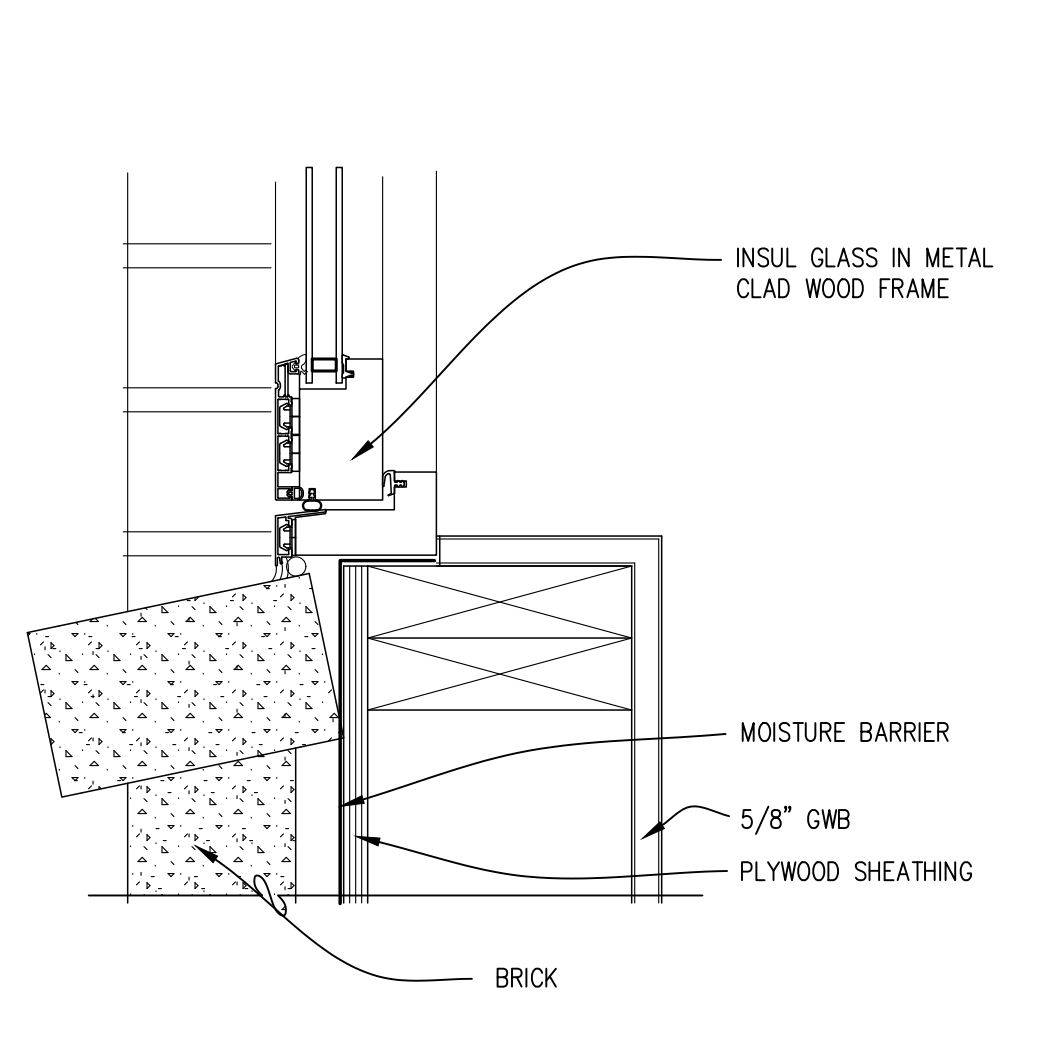
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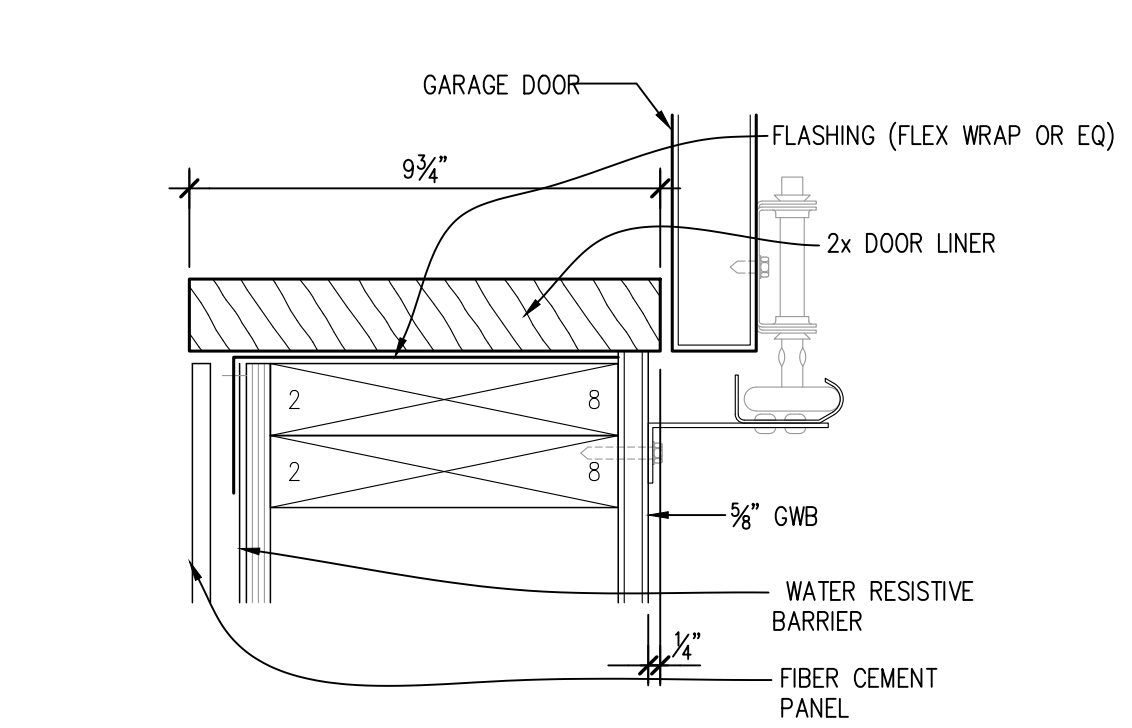
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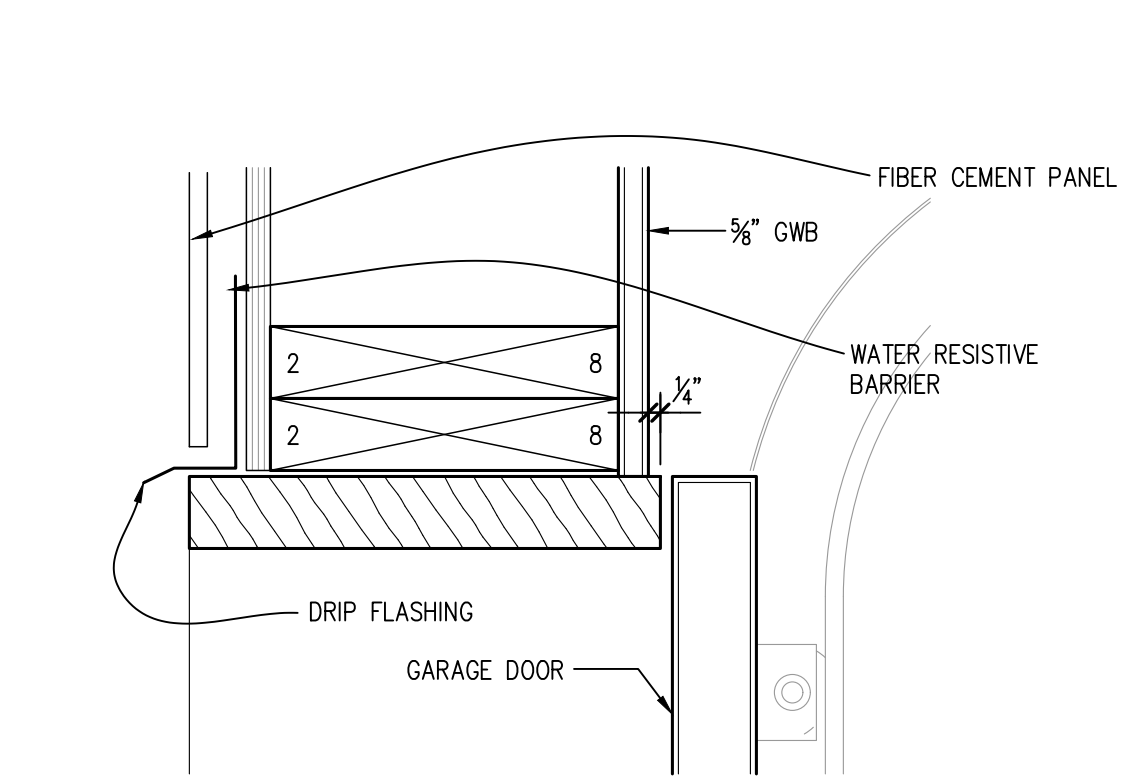
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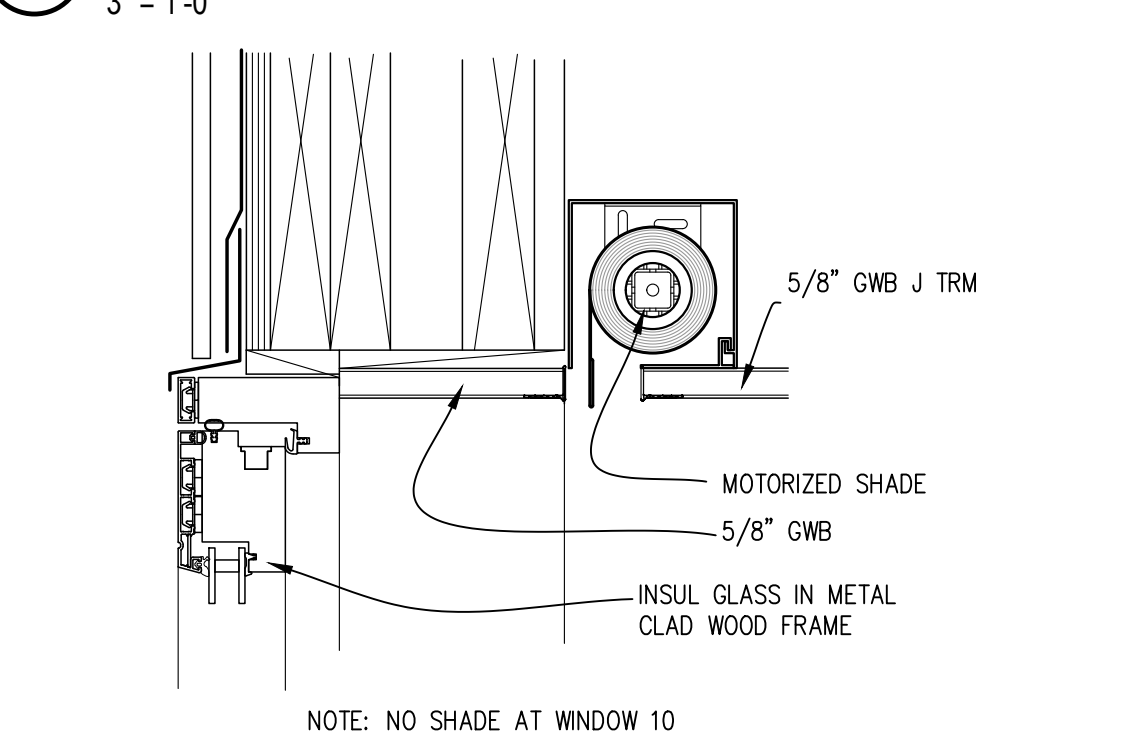
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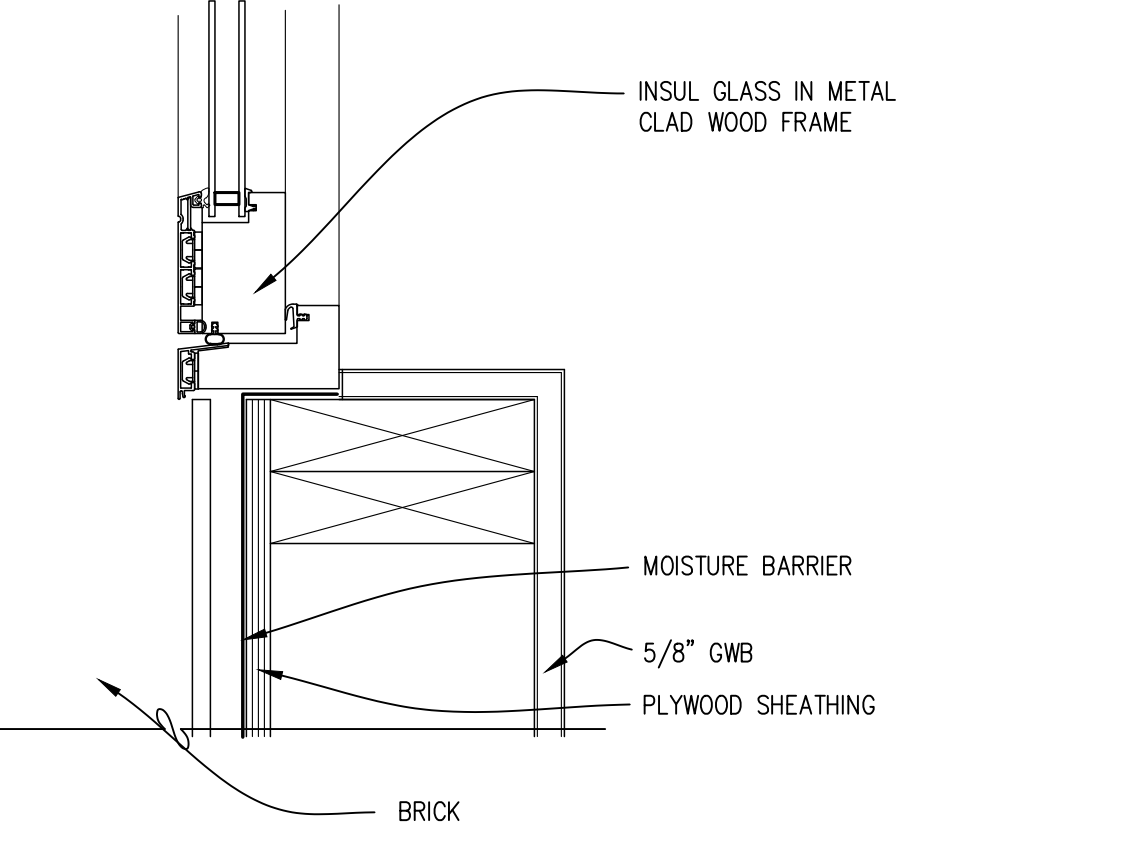
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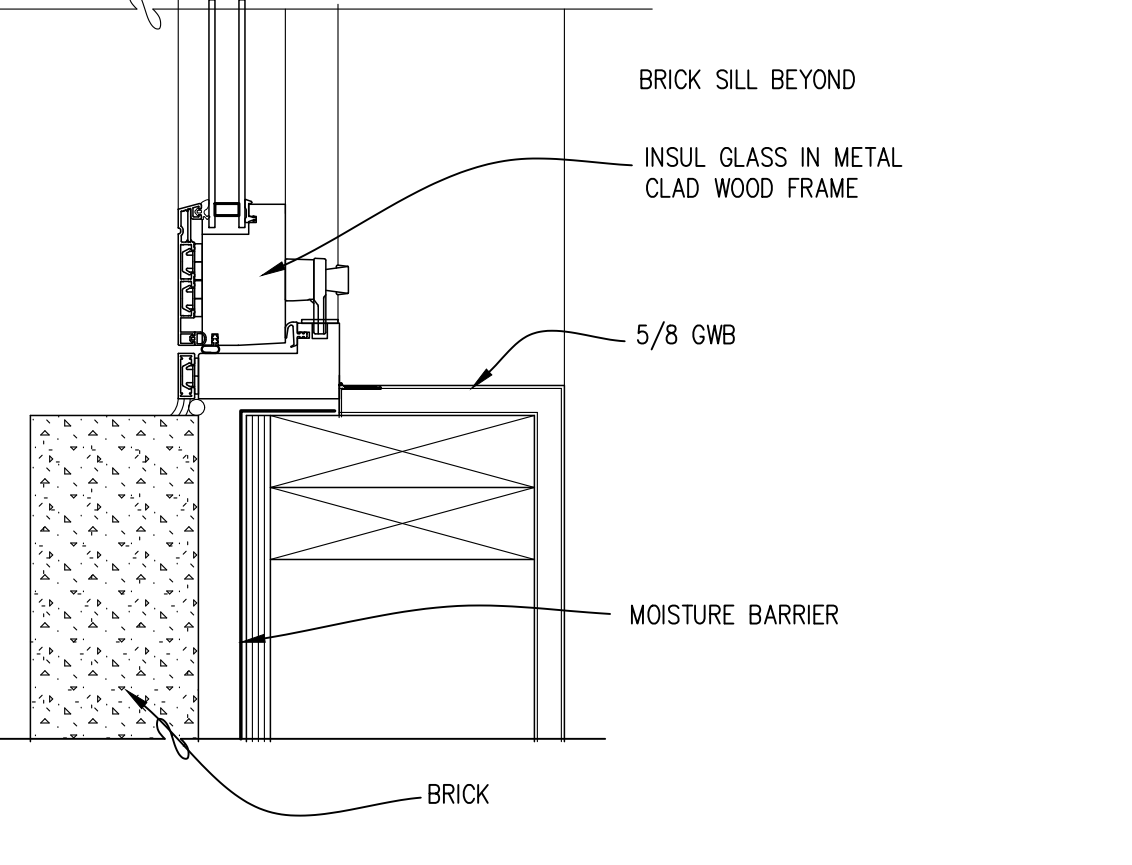
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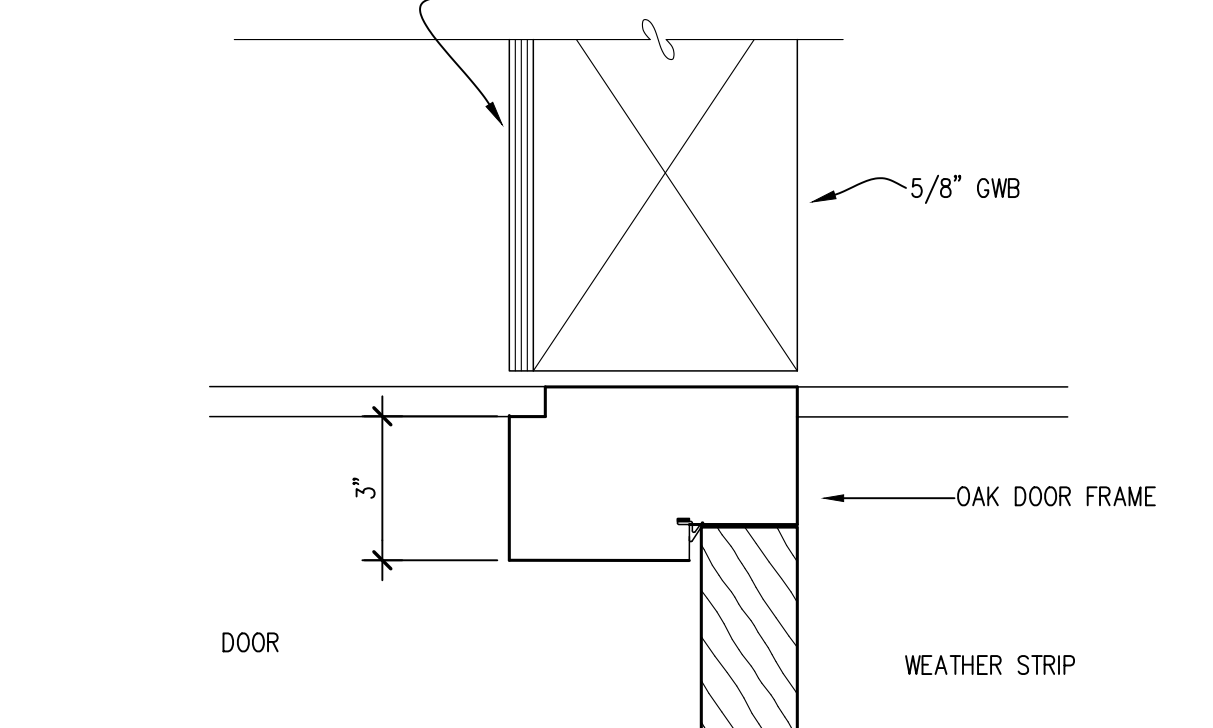
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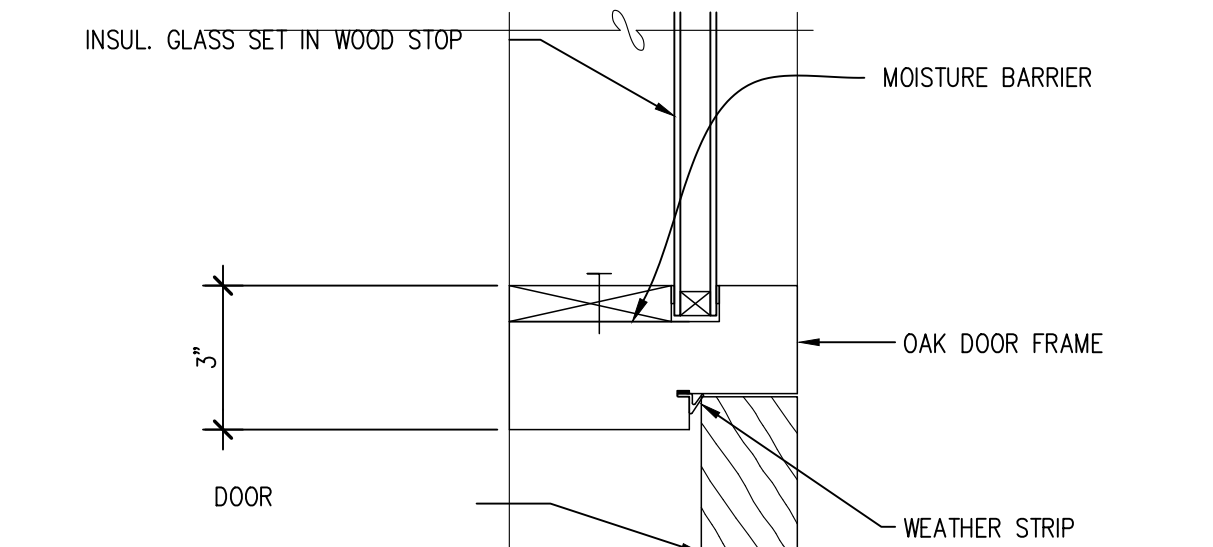
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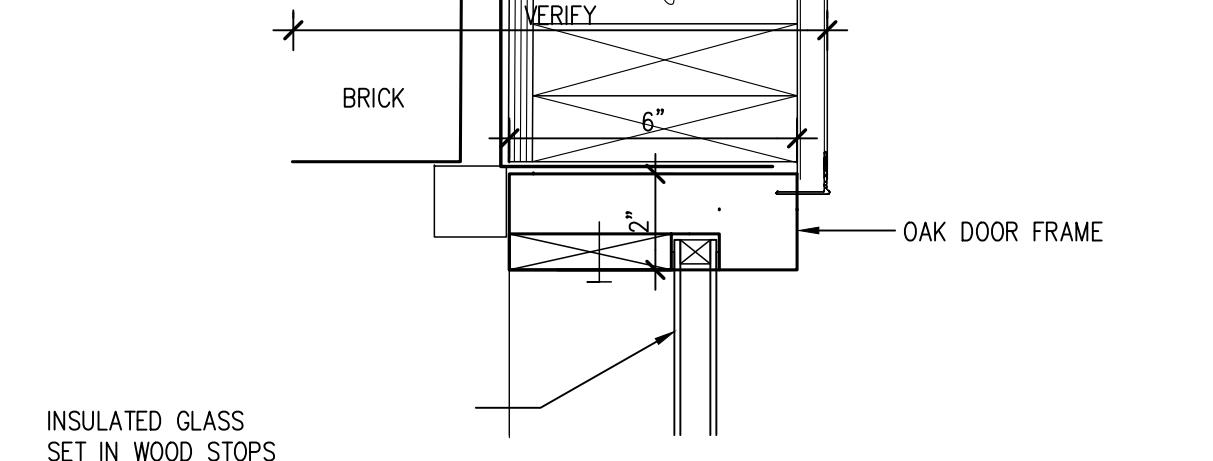
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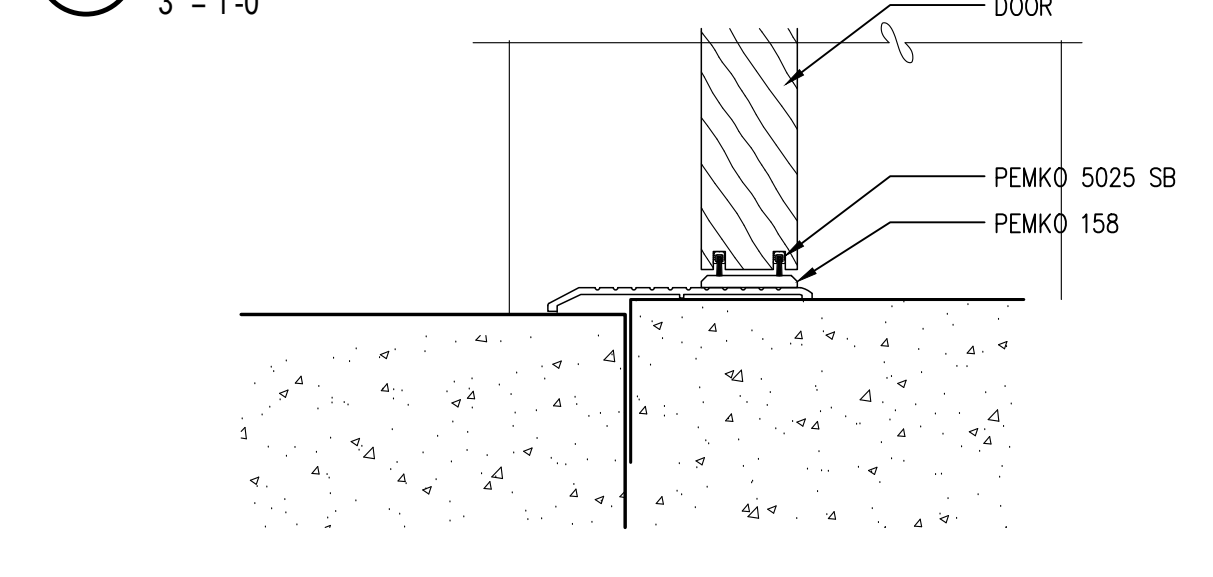
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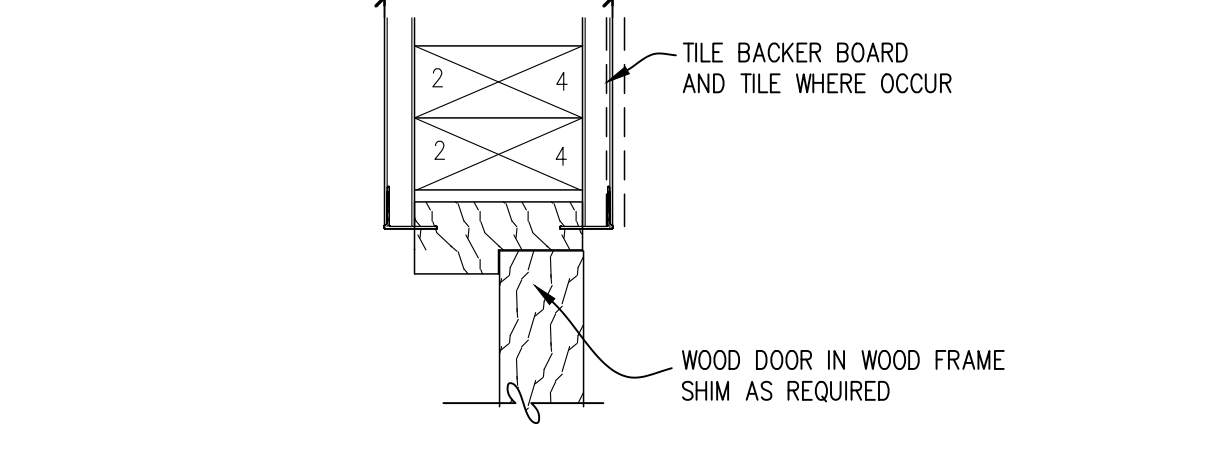
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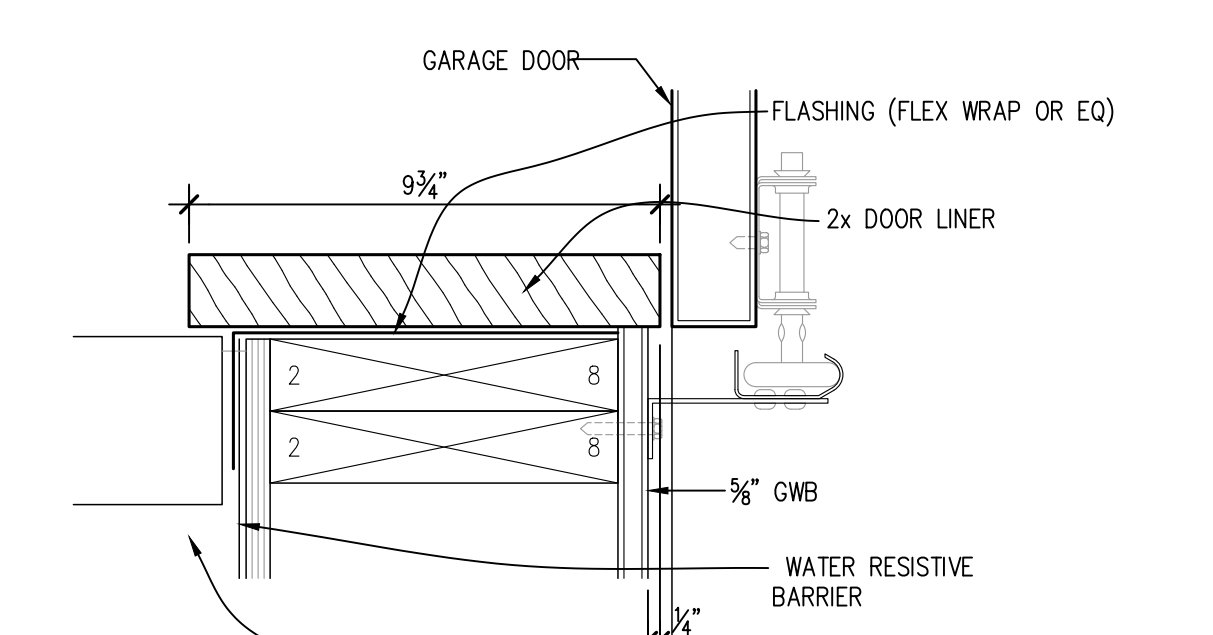
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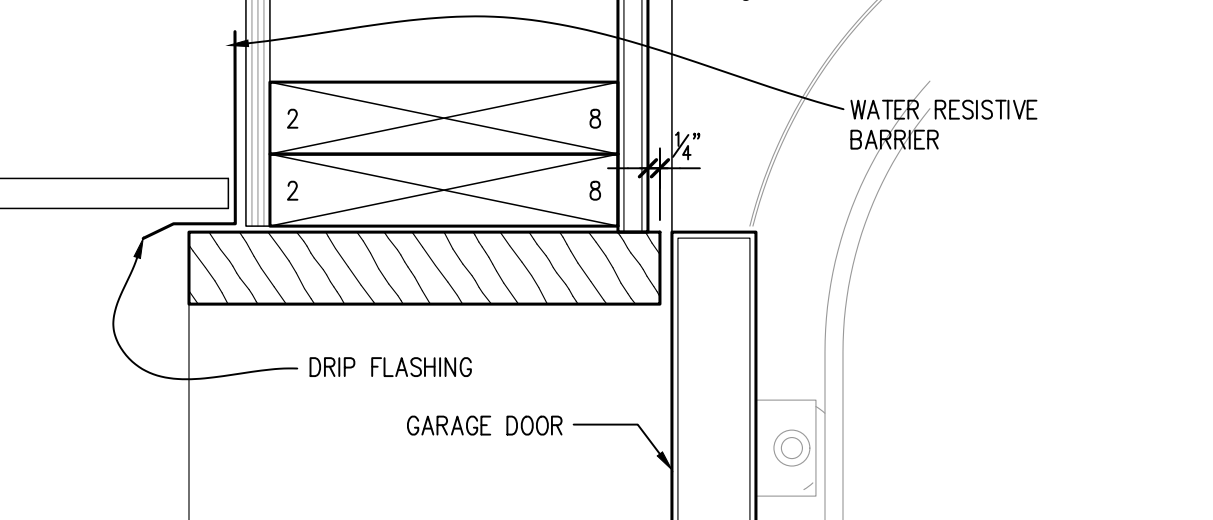
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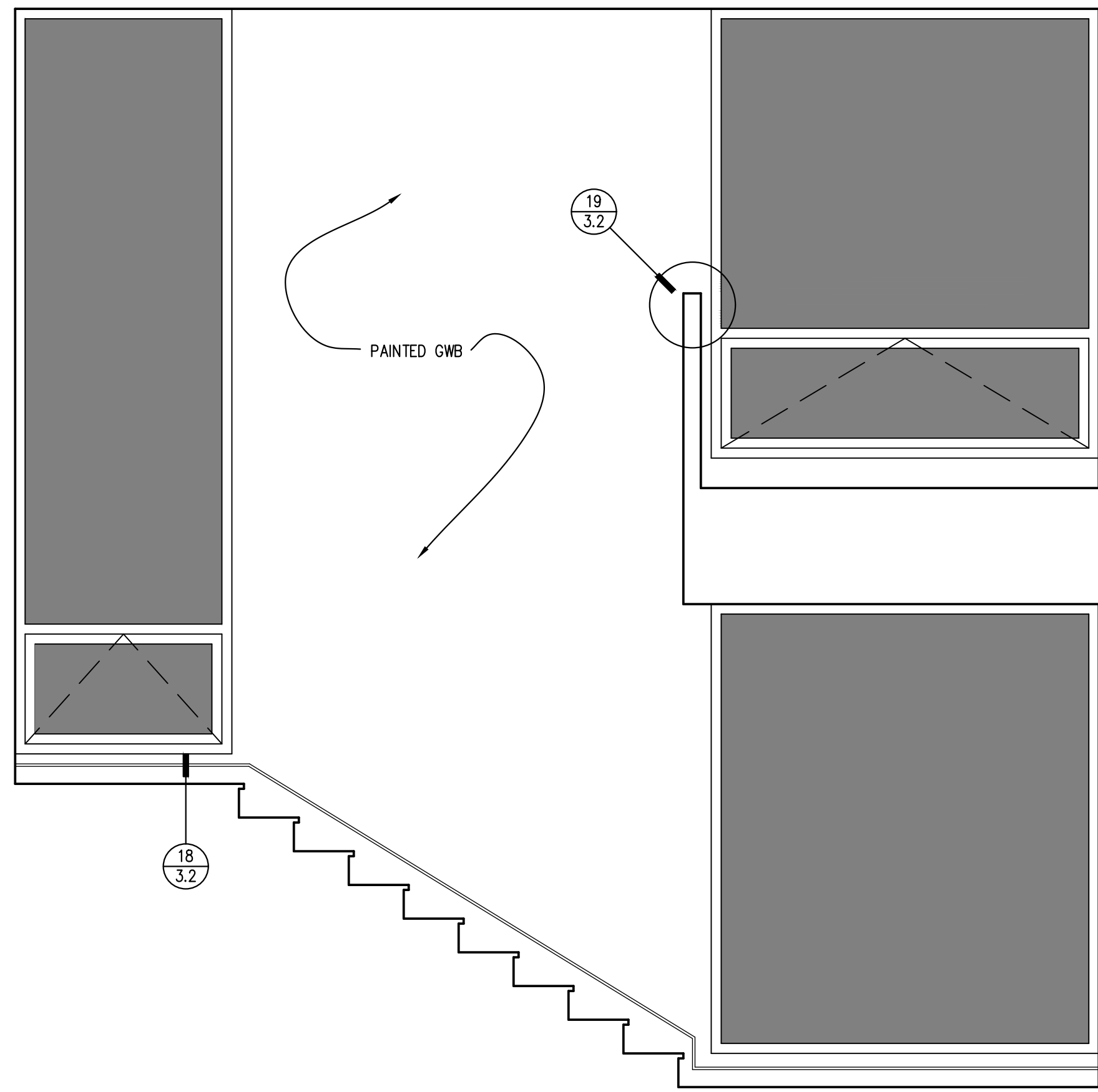
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6 JAMB  
3" = 1'-0"



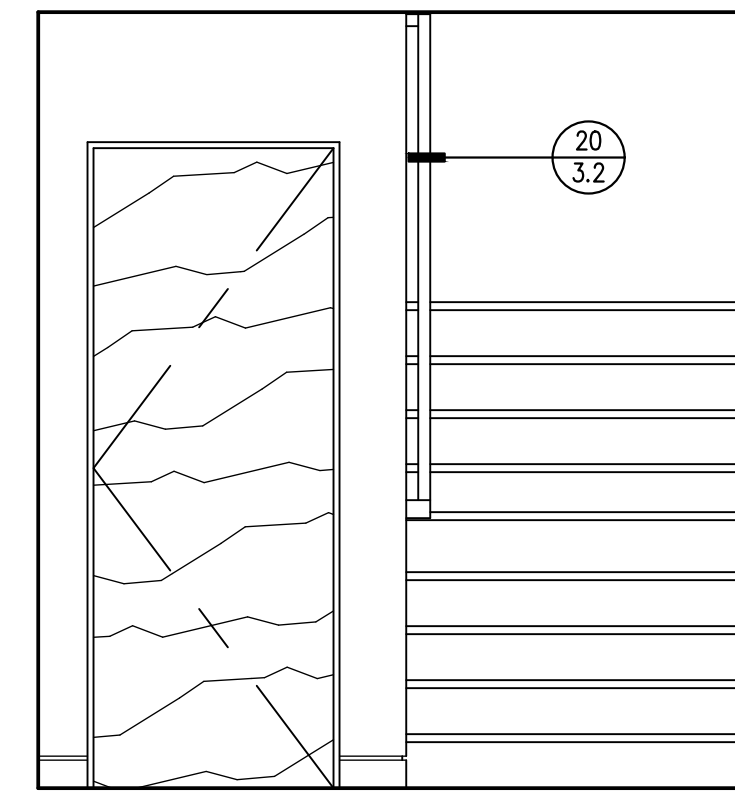
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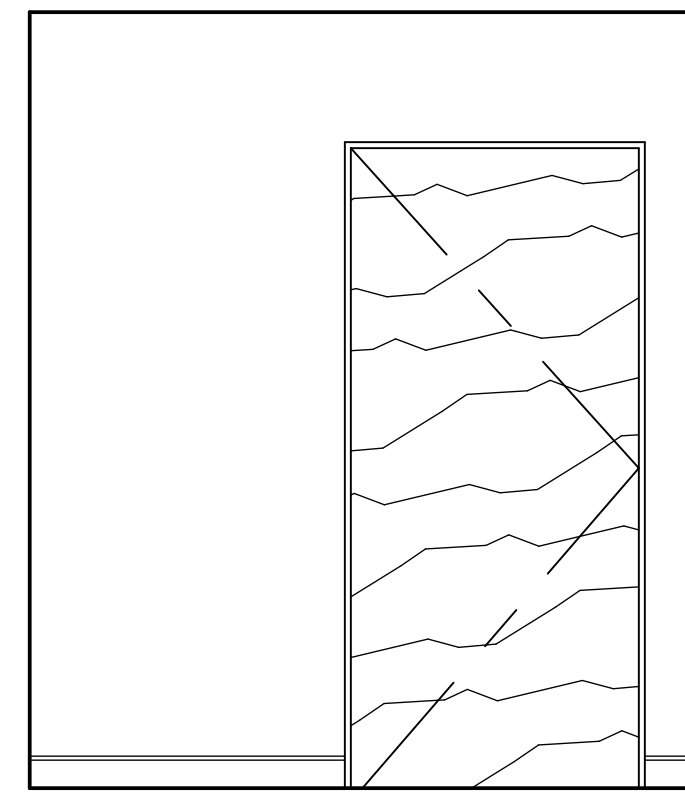
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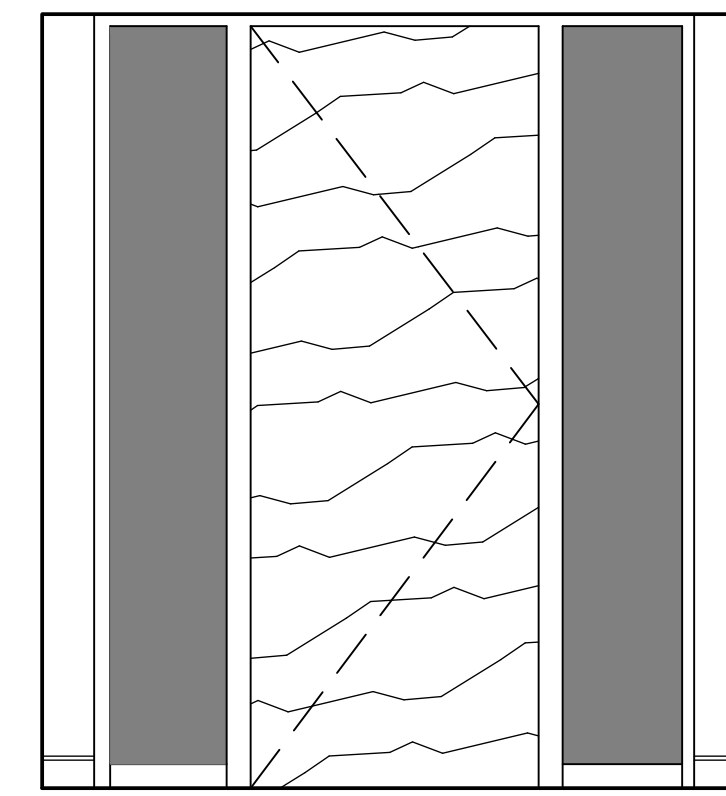
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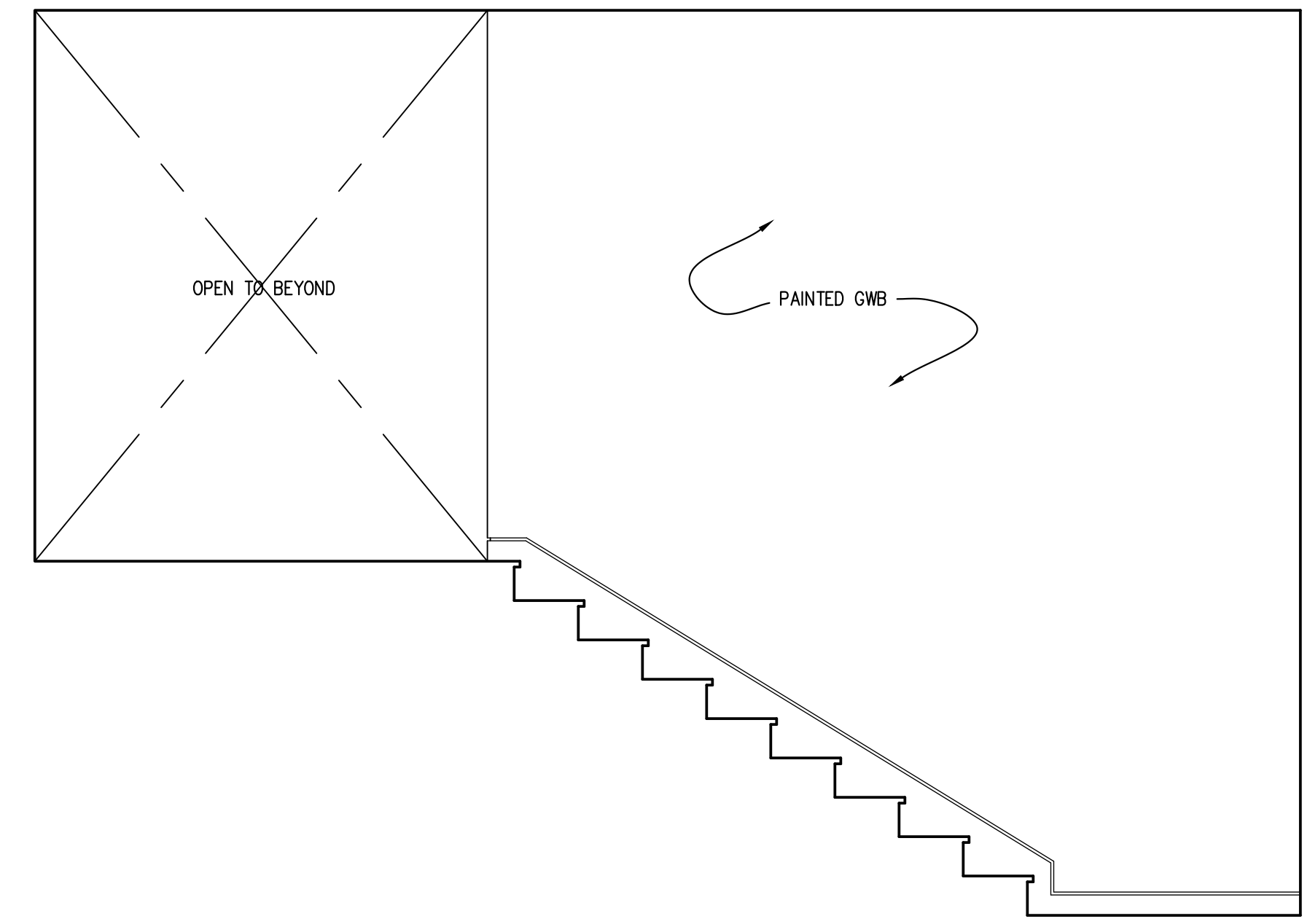
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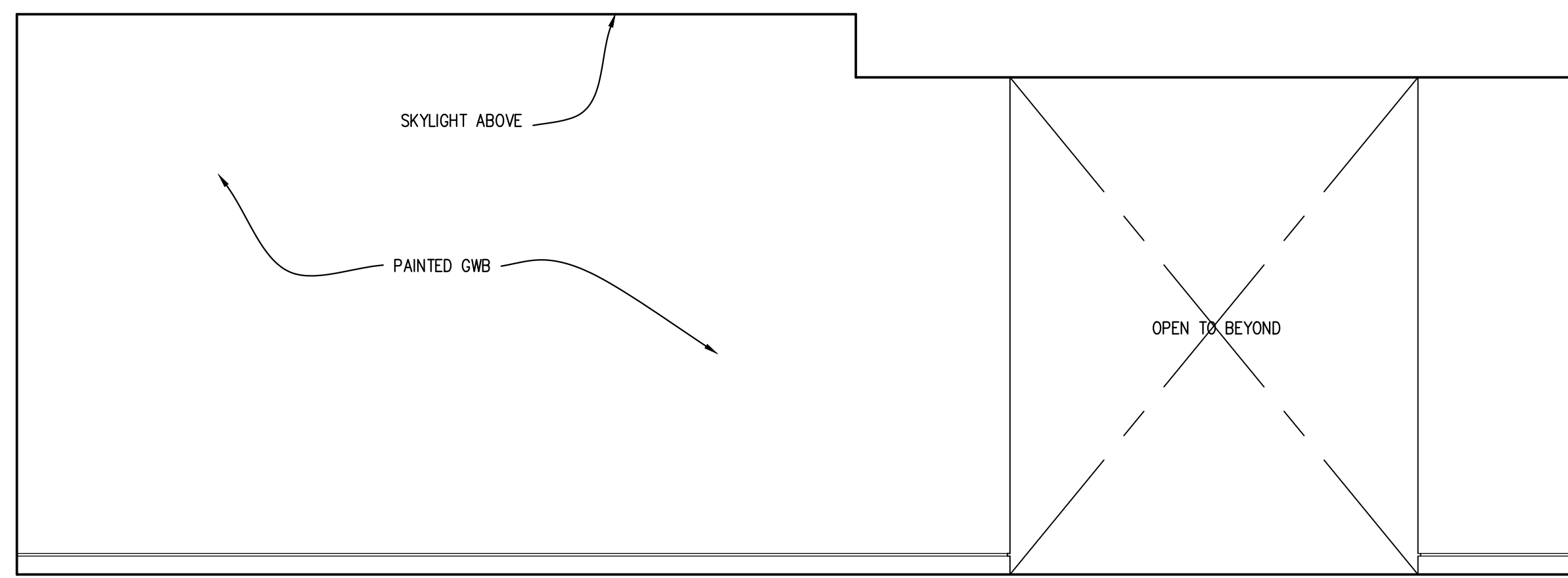
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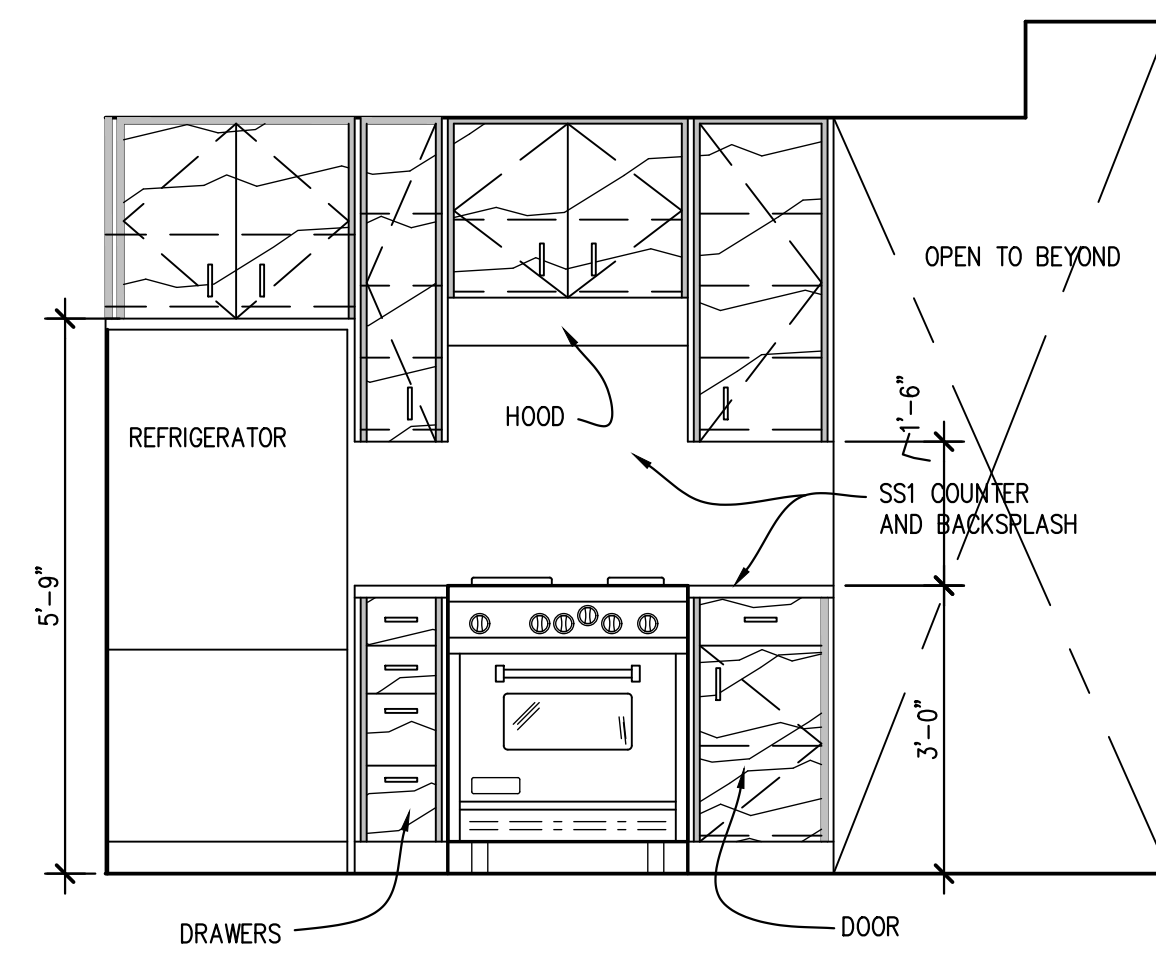
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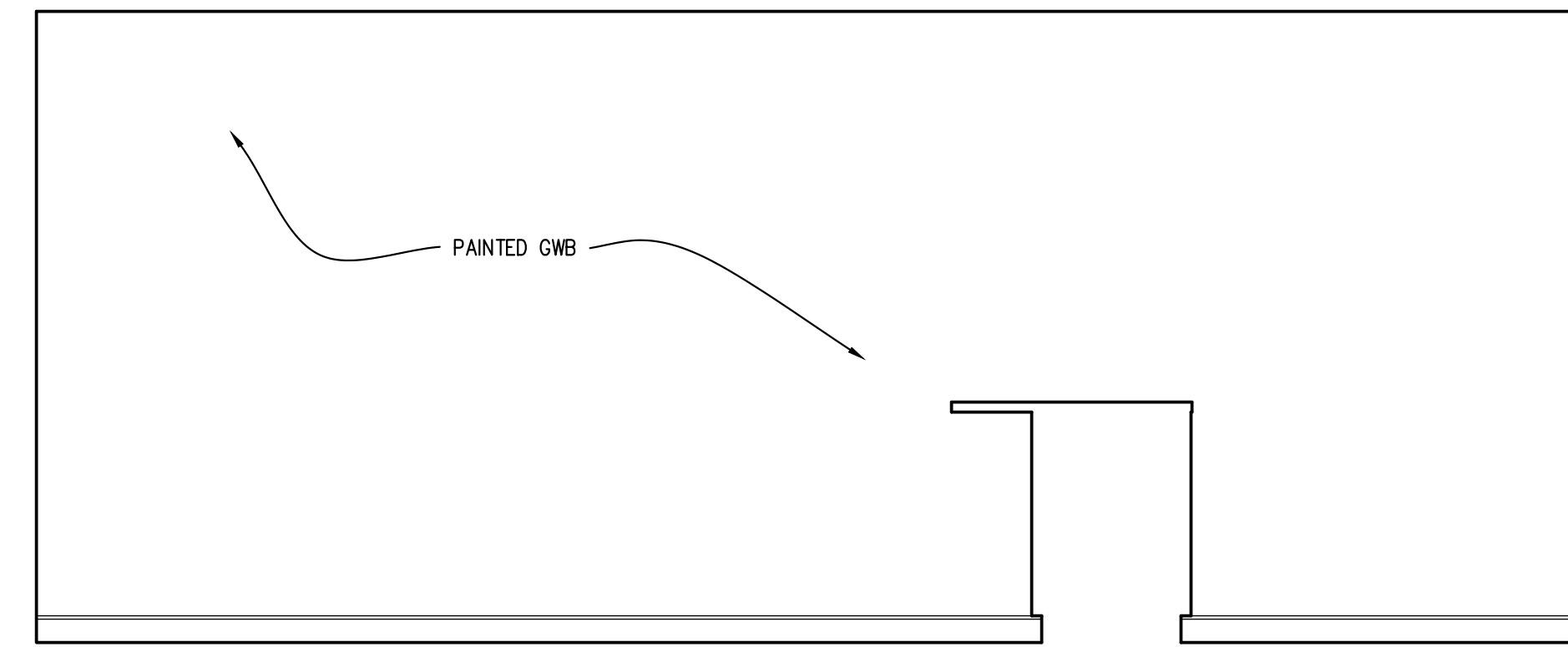
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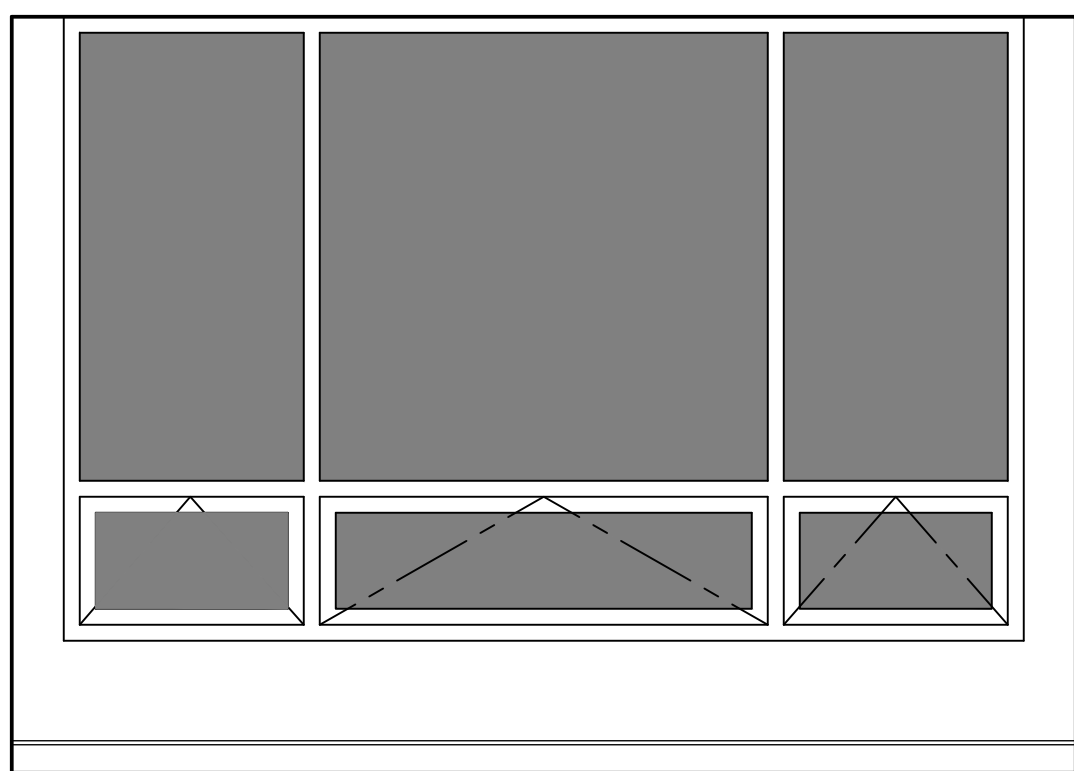
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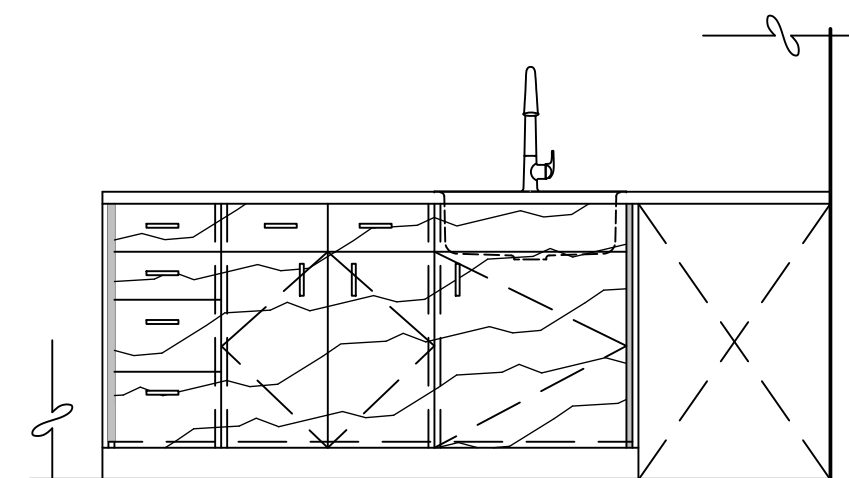
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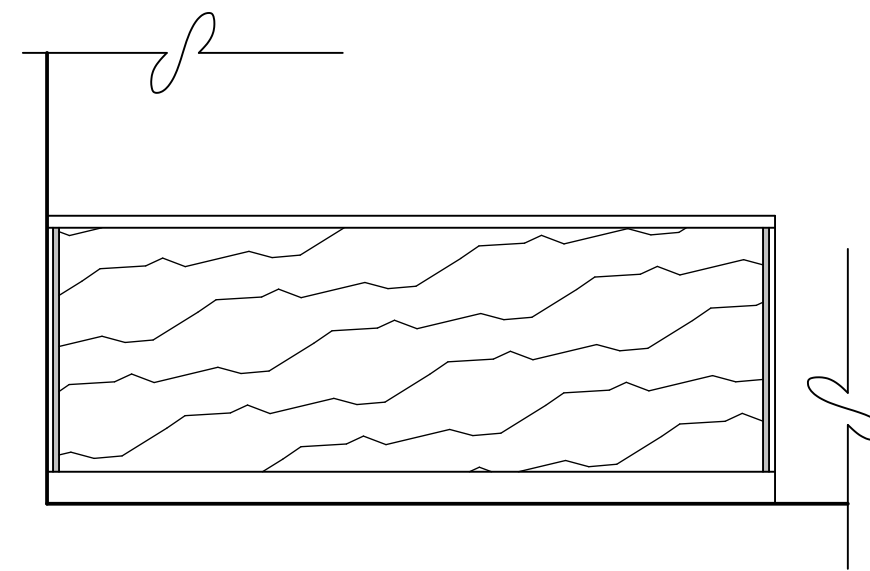
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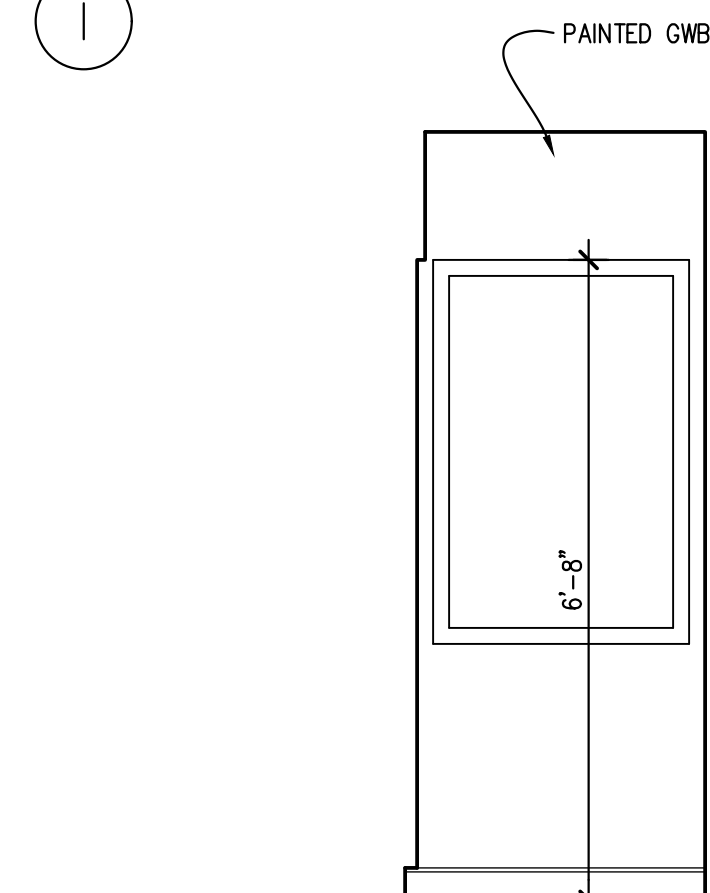
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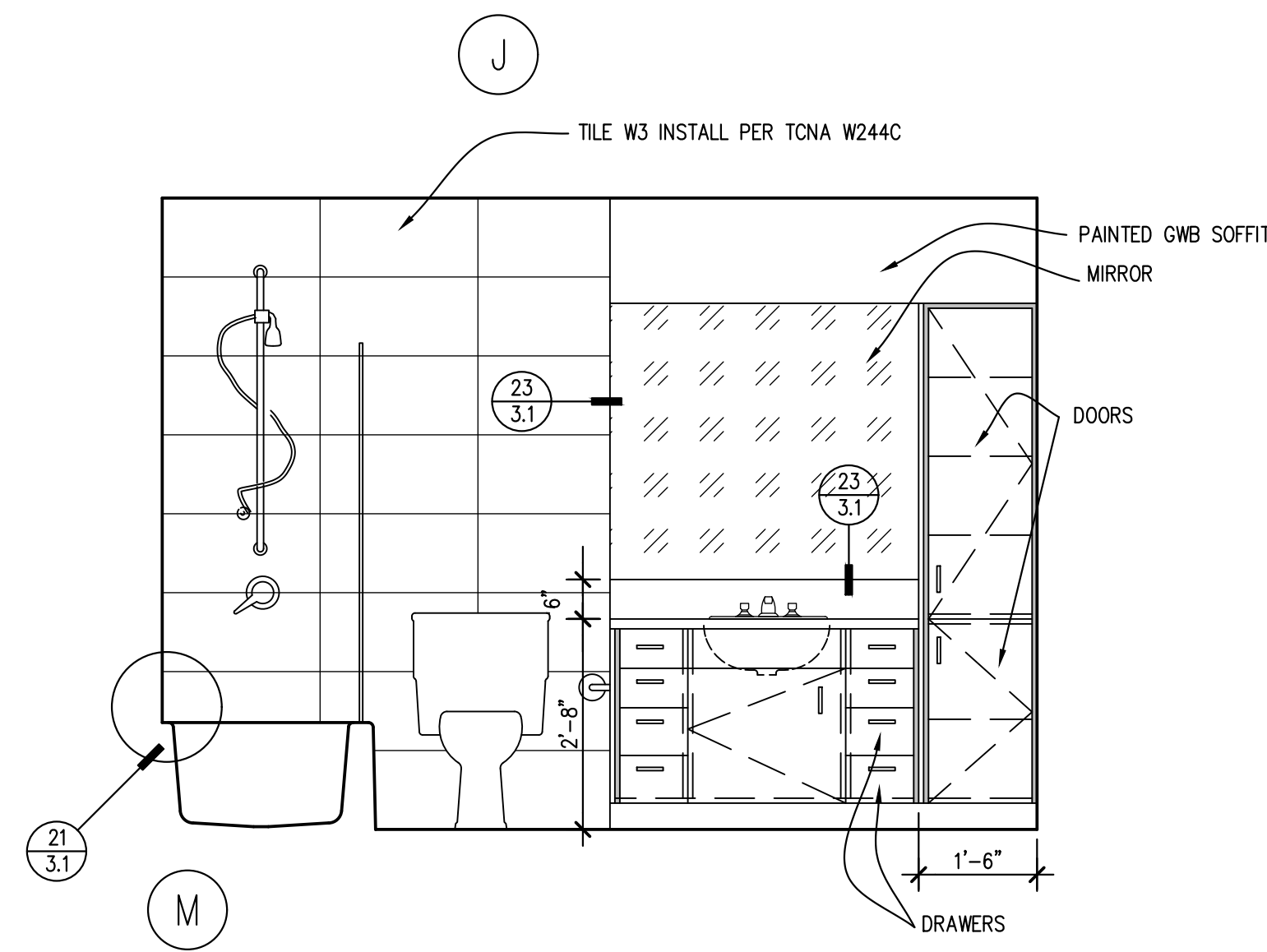
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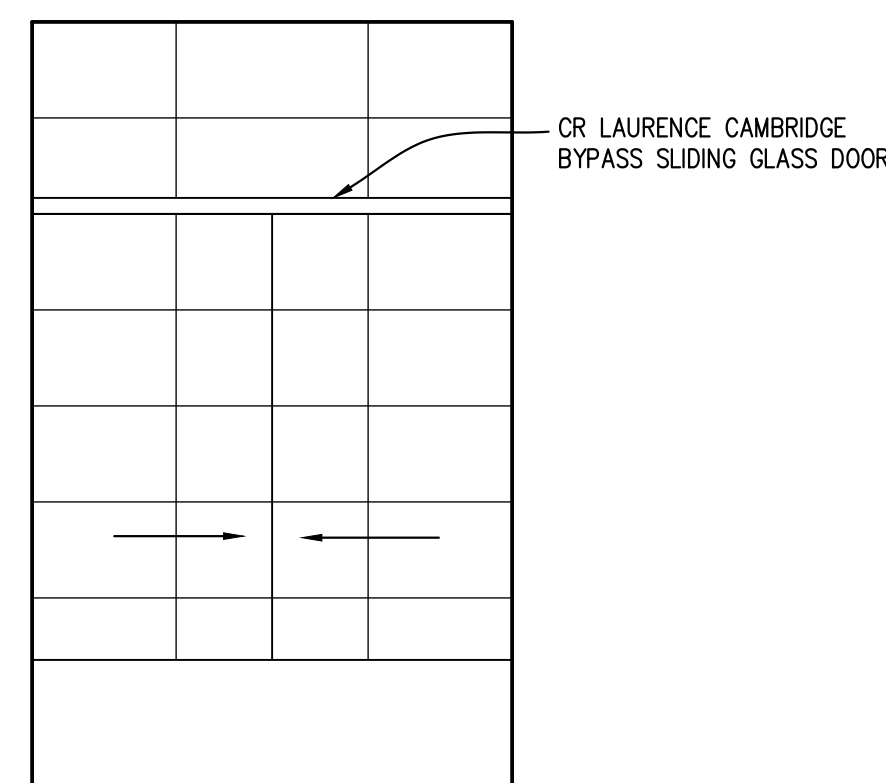
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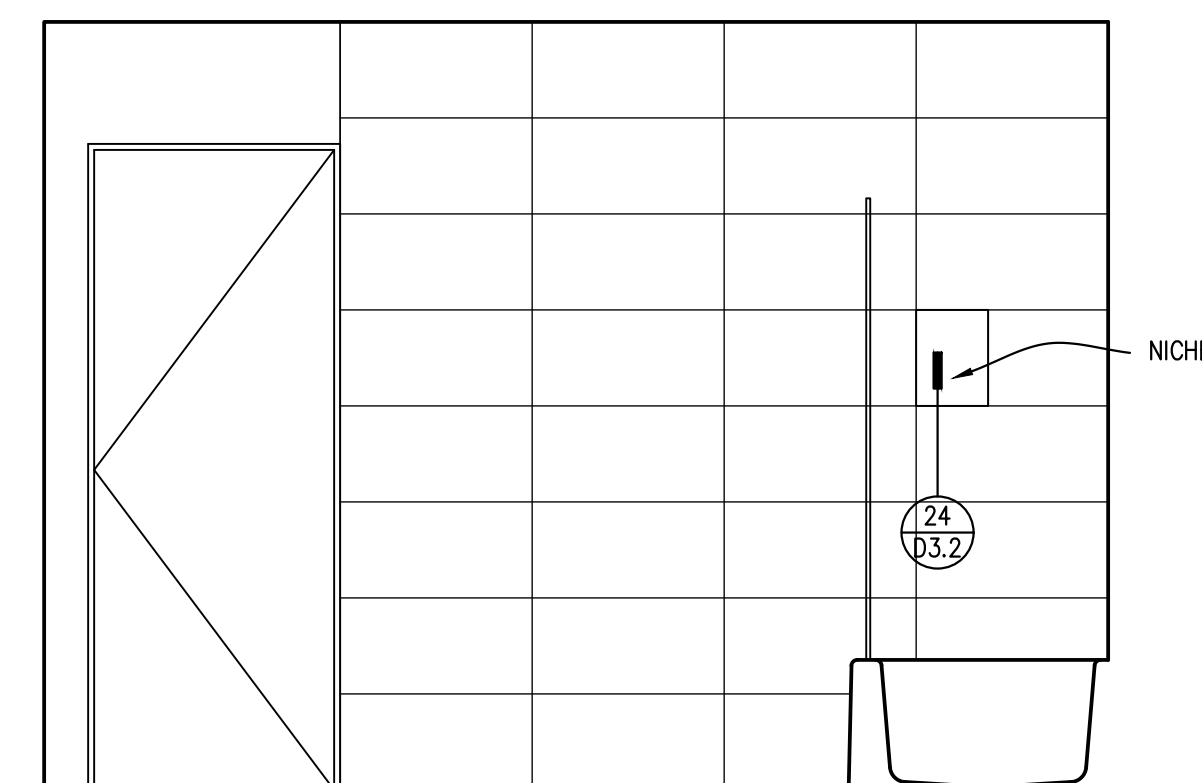
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M



N



O



SECTION 07531 - TPO MEMBRANE ROOFING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Shop Drawings of tapered insulation.
- B. Exterior Fire-Test Exposure: ASTM E 108, Class [A][B][C].
- C. Warranties: Manufacturer's standard form, without monetary limitation, signed by roofing manufacturer agreeing to repair leaks due to defects in materials or workmanship for period of [10][15] years.

PART 2 - PRODUCTS

2.1 ROOFING MATERIALS

- A. TPO Sheet: **80 mils** thick; color to be selected.
  - 1. Products:
    - a. Carlisle Sure-Weld TPO or equivalent
- B. Auxiliary Materials: Recommended by roofing system manufacturer for intended use and as follows:
  - 1. Sure-Weld reinforced flashing, low VOC adhesive, Pressure sensitive cover strip, TPO joint covers, Cut edge sealant and others as recommended by manufacturer.

2.2 BALLAST

- A. Aggregate Ballast: Smooth, washed, black riverbed gravel or other acceptable smooth-faced stone, **3/4 to 1-1/2 inches**.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install TPO sheet according to roofing system manufacturer's written instructions and as follows:
  - B. 1. Sweep loose debris from the substrate.
  - C. 2. Position Sure-Weld Membrane over acceptable substrate and fold membrane back so half the underside is exposed.
  - D. 3. Apply the applicable Carlisle Bonding Adhesive to the exposed underside of the membrane and the corresponding substrate area with a plastic core medium nap roller at the published application rate on the applicable Product Data Sheet.
  - E. 4. Allow adhesive to dry until tacky and roll coated membrane into coated substrate and avoid wrinkling.
  - F. 5. Brush down the bonded section of membrane immediately with a soft bristle push broom.
  - G. 6. Fold back the un-bonded half of the sheet and repeat the bonding procedure.
  - H. 7. Install adjoining membrane sheets in the same manner, overlapping edges a minimum of 2" to provide for a minimum 1- 1/2" hot air weld. It is recommended that all splices be shingled to avoid bucking of water.
  - I. 8. Hot air weld the membrane sheets a minimum of 1-1/2" with an Automatic Hot Air Welding Machine.
  - J. 9. Membrane that has been exposed to the elements for approximately 7 days must be prepared with Weathered Membrane Cleaner. Wipe the surface where Weathered Membrane Cleaner has been applied with a clean, dry HP Splice Wipe or other white rag to remove cleaner residue prior to hot air welding.

END OF SECTION 07531

SECTION 08211 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Samples for doors, shop drawings.
- B. Quality Standard: NWGDA I.S.1-A.

1.2 FLUSH WOOD DOORS

- A. Doors for Transparent Finish: **Premium grade**.
  - 1. Faces: **white oak, rift cut, horizontal grain**.
  - 2. Veneer Matching: **Book and balance match**.
  - 3. Pair matching and **set matching**.
  - 4. Continuous matching for doors with transoms.
- B. Doors for Opaque Finish: **Custom grade**.
  - 1. Faces: **Medium-density overlay**.
- C. Interior Veneer-Faced Solid-Core Doors: **Five-ply, structural composite lumber cores**.
- D. Interior Solid-Core Doors with Hardboard Faces: **Three-ply, particleboard cores**.

1.3 FABRICATION AND FINISHING

- A. Factory fit doors to suit frame-opening sizes indicated and to comply with referenced quality standard.
  - 1. Comply with NFPA 80 for fire-resistance-rated doors.
- B. Factory machine doors for hardware that is not surface applied.
- C. Cut and trim openings to comply with referenced standards.
  - 1. Trim tight openings with moldings indicated.
  - 2. Factory install louvers in prepared openings.
- D. Factory doors indicated for transparent finish with **stain and manufacturer's standard finish comparable to AWI System TR-4, conversion varnish**.

PART 2 - EXECUTION

1.1 INSTALLATION

- A. Comply with WDMA's "How to Store, Handle, Finish, Install, and Maintain Wood Doors."
  - 1. Install fire-rated doors to comply with NFPA 80.

Align and fit doors in frames with uniform clearances and bevels. **Machine doors for hardware.**

Repair, refinish, or replace factory-finished doors damaged during installation, as directed by Architect.

END OF SECTION 08211

DOOR HARDWARE 08710 - 1

SECTION 08710 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- Allowances: Provide Hardware Allowance in Division 8 Section 8700
- A. Submittals: Hardware Schedule.
- B. Deliver keys to Owner.
- C. For fire-rated openings provide hardware tested and listed by UL or FMG (NFPA 80). On exit devices provide UL or FMG label indicating "Fire Exit Hardware."

PART 2 - PRODUCTS

2.1 HARDWARE

- A. Manufacturers:
  - 1. Baldwin
- B. Hinges:
  - 1. Flame-Spread Index: 25 or less where exposed, otherwise, as indicated in Part 2 "Insulation Products" Article.
  - 2. Smoked/Developed Index: 450 or less.
- C. Locksets and Latches:
  - 1. BHMA A156.13, Series 1000, Grade 3 for mortise locks and latches.
  - 2. **Lever handles** on locksets and latchesets, Baldwin L022 lever.
  - 3. **Pocket door pulls - see schedule**

Provide wall stops or floor stops for doors without closers.

- D. Provide hardware finishes as follows:
  - 1. Hinges: **Matching finish of lockset/latcheset**.
  - 2. Locksets, Latchesets, and Exit Devices: Brushed Nickel US15
  - 3. Other Hardware: Matching finish of lockset/latcheset.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Mount hardware in locations recommended by the Door and Hardware Institute, unless otherwise indicated.

END OF SECTION 08710

SECTION 06402 - INTERIOR ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: **Product Data for solid-surfacing materials. Shop Drawings and Samples showing the full range of colors, textures, and patterns available for each type of finish.**
- B. Quality Standard: **Architectural Woodwork Institute's "Architectural Woodwork Quality Standards"**
- C. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is completed, and HVAC system is operating.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Hardboard: AHA A135.4
- B. Medium-Density Fiberboard: ANSI A208.2, Grade MD.
- C. Particleboard: not allowed
- D. Softwood Plywood and Face Veneers: DCC PS 1.
- E. Hardwood Plywood and Face Veneers: HPVA HP-1.
- F. Solid-Surfacing Material:
  - 1. Products:
    - a. See finish schedule

2.2 CABINET HARDWARE AND ACCESSORY MATERIALS

- A. Hardware Standards: Comply with BHMA A156 series standards.
- B. Exposed Hardware Finishes: Comply with BHMA A156.18 for BHMA code number indicated.
  - 1. Finish: **Satin Chrome: BHMA 626 or BHMA 652 or Satin Stainless Steel: BHMA 630.**
- C. Furring, Blocking, Shims, and Hanging Strips: **Softwood or hardwood** lumber, kiln dried to 15 percent moisture content.

2.3 INTERIOR WOODWORK

- A. Complete fabrication before shipping to Project site to maximum extent possible. Disassemble only as needed for shipping and installing. Where necessary for fitting at Project site, provide for scoring and trimming.
- B. Backcut or groove backs of flat trim members, kerf backs of other wide, flat members, except for members with ends exposed in finished Work.
- C. Interior Standing and Running Trim for Transparent Finish: **Premium grade, made from white oak, rift sawn.**
- D. Interior Standing and Running Trim for Opaque Finish: **Premium grade, made from any closed-grain hardwood.**
- E. Wood Cabinets (Casework) for Transparent Finish: **Premium grade**.
  - 1. AWI Type of Cabinet Construction: **Reveal overlay, see details.**
  - 2. Wood Species for Exposed Surfaces: **White oak, rift sawn or cut.**
  - 3. Grain Matching: Run and match grain **horizontal** for drawer fronts, doors, and fixed panels.
  - 4. Matching of Veneer Leaves: **Slip and balance match.**
  - 5. Semiexposed Surfaces Other Than Drawer Bodies: **Same species and cut as exposed surfaces.**
  - 6. Drawer Sides and Backs: **Solid hardwood, stained to match exposed surfaces**
  - 7. Drawer Bottoms: **Hardwood plywood**

2.4 SHOP FINISHING OF INTERIOR ARCHITECTURAL WOODWORK

- A. Finishes: Same grades as items to be finished.
- B. Finish architectural woodwork at the fabrication shop; defer only final touch up until after installation.
  - 1. Apply one coat of sealer or primer to concealed surfaces of woodwork.
  - 2. Apply a vinyl wash coat to woodwork made from closed-grain wood before staining and finishing.
  - 3. After staining, if any, apply paste wood filler to open-grain woods and wipe off excess. Tint filler to match stained wood.
- C. Transparent Finish: AWI Finish System **TR-4, conversion varnish**.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Condition woodwork to prevailing conditions before installing.
- B. Install woodwork to comply with **AWI Section 10** for grade specified.
- C. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install to a tolerance of 1/8 inch in 96 inches for level and plumb.
- D. Scribe and cut woodwork to fit adjoining work, seal cut surfaces, and repair damaged finish at cuts.
- E. Install trim with minimum number of joints possible, using full-length pieces to greatest extent possible. Stagger joints in adjacent and related members.
- F. Anchor countertops securely to base units. Seal space between backsplash and wall.
- G. Anchor paneling to supports with concealed panel-hanger clips and by blind nailing on back-up strips, splined-connection strips, and similar associated trim and framing.
- H. Stairwork and Rails: Cut carriages to accurately fit treads and risers and securely anchor to supporting substrates. Glue treads to risers, and glue and nail treads and risers to carriages. Glue and wedge treads and risers to housed stringers. Glue and dowel or pin balusters to treads and railings, and railings to newel posts.

3.2 CABINET HARDWARE AND ACCESSORY SCHEDULE

- A. Butt Hinges: 2-3/4-inch, 5-knuckle steel hinges made from 0.095-inch-thick metal, BHMA A156.9, B01361 for flush doors and BHMA A156.9, B01521 for overlay doors.
- B. Concealed (European-Type) Hinges: Clip top Blumotion BHMA A156.9, B01602.
- C. Pulls: TOPKNOB EUROPA TAB PULL BRUSHED SATIN NICKEL.
- D. Catches: **Magnetic catches, BHMA A156.9, B03141.**
- E. Adjustable Shelf Standards: BHMA A156.9, B04071; with shelf rests, BHMA A156.9, B04081.
- F. Drawer Slides: Blum Movento under-mounted, zinc-plated steel drawer slides with steel ball bearings, complying with BHMA A156.9, Grade 1 and rated for the following loads:
  - 1. Box Drawer Slides: **75 lbf.**
  - 2. File Drawer Slides: **150 lbf.**
  - 3. Pencil Drawer Slides: 45 lbf.
- G. Door Locks: BHMA A156.11, E07121
- H. Drawer Locks: BHMA A156.11, E07041.
- I. Grommets for Cable Passage through Countertops: 1-inch-OD brown, molded-plastic grommets with brown plastic cap.

END OF SECTION 06402

SECTION 07210 - BUILDING INSULATION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data.
- B. Surface-Burning Characteristics: ASTM E 84, and as follows:
  - 1. Flame-Spread Index: 25 or less where exposed, otherwise, as indicated in Part 2 "Insulation Products" Article.
  - 2. Smoked/Developed Index: 450 or less.

PART 2 - PRODUCTS

2.1 INSULATION PRODUCTS

- Foamed-in-Place Insulation: closed cell spray applied polyurethane foam insulation.
  - 1. Product: Icyrene ProSeal LE, R-7.1 per inch
  - C. Fiberglass Insulation Kraft Faced Batt Insulation: ASTM C 665, Type I, Class C preformed formaldehyde free glass fiber batt type, Kraft paper faced one side.
  - B. Acoustic Batt Insulation: ASTM C 665, **Type I, unfaced** with fibers manufactured from **rock wool**, with flame-spread index of 25 or less.

2.2 ACCESSORIES

- Vapor Retarder: **Polyethylene, Reinforced polyethylene 6 mil** thick.
- C. Eave Ventilation Troughs: Preformed, rigid fiberboard or plastic sheets designed to fit between roof framing members and to provide cross-ventilation between attic spaces and vented eaves.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install insulation in areas and in thicknesses indicated or required to produce R-values indicated. Cut and fit tightly around obstructions and fit voids with insulation.
- B. Extend vapor retarder to extremities of areas to be protected from vapor transmission. Secure in place with adhesives or other anchorage. Locate seams at framing members, overlap, and seal with tape.

END OF SECTION 07210

SECTION 04810 - UNIT MASONRY ASSEMBLIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Samples for **face brick and colored mortar**.
- B. Comply with AD 530.1/ASCE 6/TMS 602.
- C. Mockups: Construct a sample wall panel approximately 48 inches long by 48 inches high to demonstrate aesthetic effects and set quality standards for materials and execution.

PART 2 - PRODUCTS

2.1 MASONRY UNITS

- A. Face Brick: **Grade SW, Type FBX**.
  - 1. Products:
    - a. Mutual Materials (Jackson Valencia 425-452-2430)
  - 2. Size: **Standard match existing**
  - 3. Solid brick with exposed surfaces finished for ends of sills and caps.
  - 4. Special shapes for applications where shapes produced by sawing would result in sawed surfaces being exposed to view.

2.2 MORTAR AND GROUT

- A. Mortar: **Ready-mixed mortar, ASTM C 1142, may be used at Contractor's option.**
  - 1. Do not use calcium chloride in mortar.
  - 2. For masonry below grade or in contact with earth, use Type M.

For exterior, above-grade, load-bearing and non-load-bearing walls and parapet walls; for interior load-bearing walls; for interior non-load-bearing partitions, and for other applications where another type is not indicated, use Type M.

2.3 REINFORCEMENT, TIES, AND ANCHORS

- A. Veneer Anchors: Two-piece adjustable masonry veneer anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall, for attachment over sheathing to studs, and acceptable to authorities having jurisdiction.
  - 1. Products:
    - a. **see detail 9 on sheet 44.4**

2.4 EMBEDDED FLASHING MATERIALS

- A. Sheet Metal Flashing: **Stainless steel, 0.0150 inch thick or Copper, 16-oz./sq. ft. weight or 0.0135 inch thick for fully concealed flashing, 16-oz./sq. ft. weight or 0.0216 inch thick elsewhere.**

2.5 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler: Premolded strips complying with ASTM D 1056, Grade 2A1.
- B. Preformed Control-Joint Gaskets: Designed to fit standard sash block and to maintain lateral stability in masonry wall; made from styrene-butadiene rubber or PVC.
- C. Weep Holes: **Round polyethylene tubing, 3/8-inch OD) (Cotton or polyester rope, 1/4 to 3/8 inch in diameter, 24 inches long).**

PART 3 - EXECUTION

3.1 INSTALLATION - GENERAL

- A. Cut masonry units with saw. Install with cut surfaces and, where possible, cut edges concealed.
- B. Mix units for exposed unit masonry from several pavers or cubes as they are placed to produce uniform blend of colors and textures.

Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.

- C. Stopping and Resuming Work: Rack back units; do not touch.
- D. Build non-load-bearing interior partitions full height and install compressible filler in joint between top of partition and underside of structure above.
- E. Tool exposed joints slightly concave when thumbprint hard, unless otherwise indicated.
- F. Keep cavities clean of mortar droppings and other materials during construction. Strike joints facing cavities flush.

3.2 UNTELS

- A. Install steel lintels where indicated.

3.3 FLASHING AND WEEP HOLES

- A. Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to the downward flow of water in the wall, and where indicated.
- B. Place through-wall flashing on sloping bed of mortar and cover with mortar. Seal penetrations in flashing before covering with mortar.
- C. Extend flashing 4 inches into masonry at each end and turn up 2 inches to form a pan.
- D. Tint masking material used in weep holes flush with outside face of wall after mortar has set.

3.4 CLEANING

- A. Clean masonry as work progresses. Remove mortar fins and smears before tooling joints.
- B. Final Cleaning: After mortar is thoroughly cured, remove large mortar particles, scrub, and rinse unit masonry.

Wet wall surfaces with water before applying acidic cleaner; then remove cleaner promptly by rinsing thoroughly with clear water.

END OF SECTION 04810

SECTION 01701 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 - GENERAL

1.1 CLOSEOUT SUBMITTALS

- A. Record Drawings: Maintain a set of the Contract Drawings as Record Drawings. Mark to show installation that varies from the Work originally shown.
- Operation and Maintenance Data: Organize data into three-ring binders with identification on front and spine of each binder and pocket folders for folded sheet information. Include the following:
- 1. Manufacturer's operation and maintenance brochures.
  - 2. Emergency instructions.
  - 3. Spare parts list.
  - 4. Wiring diagrams.
  - 5. Copies of warranties.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Examine substrates and conditions for compliance with manufacturer's written requirements including, but not limited to, surfaces that are sound, level, plumb, smooth, clean, and free of deleterious substances; substrates within installation tolerances; and application conditions within environmental limits. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Verify layout information shown on Drawings, in relation to property survey and existing benchmarks, before laying out the Work.
- C. Prepare substrates and adjoining surfaces according to manufacturer's written instructions, including, but not limited to, filler and primer application.
- D. Take field measurements as required to fit the Work properly. Where fabricated products are to be fitted to other construction, verify dimensions by field measurement before fabricating and, when possible, allow for fitting and trimming during installation.

3.2 CUTTING AND PATCHING

- A. Do not cut structural member(s) or operational element(s) without prior written approval of Architect.
- B. For patching, provide materials whose installed performance will equal or surpass that of existing materials. For exposed surfaces, provide or finish materials to visually match existing adjacent surfaces to the fullest extent possible.

3.3 INSTALLATION

- A. Comply with manufacturer's written instructions for installation. Anchor each product securely in place, accurately located and aligned. Clean exposed surfaces and protect from damage. If applicable, prepare surfaces for field finishing.
- B. Clean Project site and work areas daily, including common areas.

3.4 FINAL CLEANING

- A. Clean each surface or item as follows before requesting inspection for certification of Substantial Completion:
  - 1. Remove labels that are not permanent.
  - 2. Clean transparent materials, including mirrors. Remove excess glazing compounds. Replace chipped or broken glass.
  - 3. Clean exposed finishes to a dust-free condition, free of stains, films, and foreign substances. Leave concrete floors broom clean.
  - 4. Vacuum carpeted surfaces and wax resilient flooring.
  - 5. Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication. Clean plumbing fixtures. Clean light fixtures and lamps.
  - 6. Clean the site. Sweep paved areas; remove stains, spills, and foreign deposits. Rake grounds to a smooth, even-textured surface.

3.5 CLOSEOUT PROCEDURES

- A. Substantial Completion: Before requesting Substantial Completion inspection, complete the following:
  - 1. Advise Owner of pending insurance coverage requirements.
  - 2. Submit specific warranties, maintenance agreements, and similar documents.
  - 3. Obtain and submit releases permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
  - 4. Submit Record Drawing(s) and Specifications, operation and maintenance manuals, [property surveys], and similar final record information.
  - 5. Deliver tools, spare parts, extra materials, and similar items.
  - 6. Changeover locks and transmit keys to Owner.
  - 7. Complete startup testing of systems and instruction of operation and maintenance personnel.
  - 8. Remove temporary facilities and controls.
  - 9. Advise Owner of changeover information related to Owner's occupancy, operation, and maintenance.
  - 10. Complete final cleaning requirements, including touchup painting.
  - 11. Touch up and otherwise repair and restore marked exposed finishes to eliminate visual defects.

B. On receipt of a request for inspection, Architect will proceed with inspection or advise Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or advise Contractor of items that must be completed or corrected before the certificate will be issued.

C. Request inspection for certification of Final Completion, once the following are complete:

- 1. Submit a copy of Substantial Completion inspection list stating that each item has been completed or otherwise resolved for acceptance.
- 2. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
- D. Architect will reinspect the Work on receipt of notice that the Work has been completed.
  - 1. On completion of reinspection, Architect will prepare a final Certificate for Payment. If the Work is incomplete, Architect will advise Contractor of the Work that is incomplete or obligations that have not yet been fulfilled.

3.6 DEMONSTRATION AND TRAINING

- A. Provide experienced instructors for each piece of equipment that requires operation and maintenance to provide instruction to Owner's personnel. Include a detailed record of the following:
  - 1. Include instruction for system design and operational philosophy, review of documentation, operations, adjustments, troubleshooting, maintenance, and repair.

END OF SECTION 01701

SECTION 01752 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Unless otherwise indicated, demolished materials become Contractor's property. Remove from Project site.
- B. Items indicated to be removed and salvaged remain Owner's property. Remove, clean, and deliver to Owner's designated storage area.
- C. Comply with EPA regulations and disposal regulations of authorities having jurisdiction.







































