

DESIGN CRITERIA

SNOW LOAD ---- 25 LBS
 WIND SPEED -- 110 MPH IBC
 EXPOSURE ----- B
 SEISMIC ----- D

HEATING SYSTEM
 GAS FURNACE &
 ELECTRIC HEAT PUMP

APPLIANCE FUEL SOURCE
 STOVE GAS
 DRYER ELECTRIC
 WATER HEATER ELECTRIC

SQUARE FOOTAGE TOTALS

1ST FLOOR 2,200 SQ FT
 2ND FLOOR 2,264 SQ FT
 TOTAL LIVING SPACE 4,464 SQ FT

GARAGE 535 SQ FT
 FRONT PORCH COVER 49 SQ FT
 REAR DECK 936 SQ FT
 UPPER BALCONY 645 SQ FT

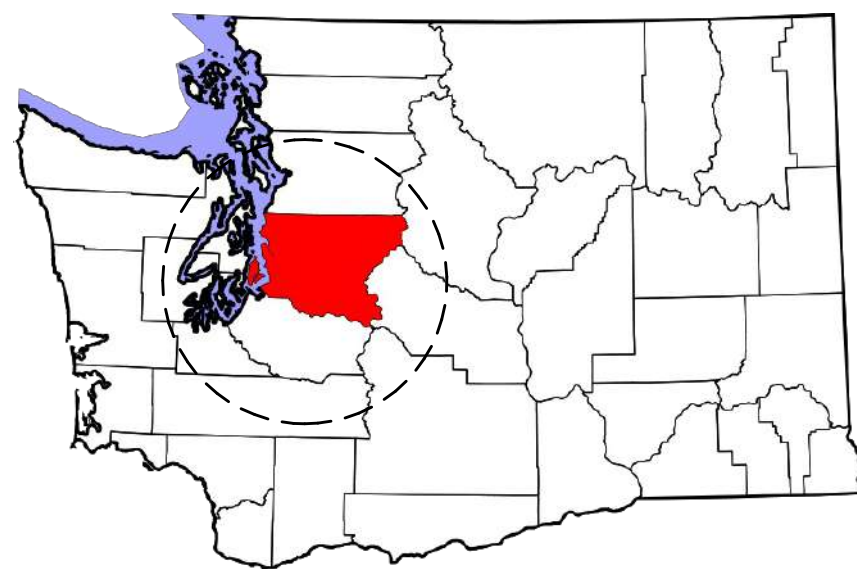
HOUSE DESIGNER:
 ALDOR LLC.

26809 199TH AVE SE.
 COVINGTON WA. 98042
 ALDOR.architecture.construction@outlook.com

LIST OF CODES
 2021 WSEC
 2021 IRC & IBC

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RUSSELL PALANCHUCK - PRIVATE RESIDENCE - ARCHITECTURAL SET
 9734 SE 40TH ST MERCER ISLAND WA. 98040 PARCEL# 265550-0176

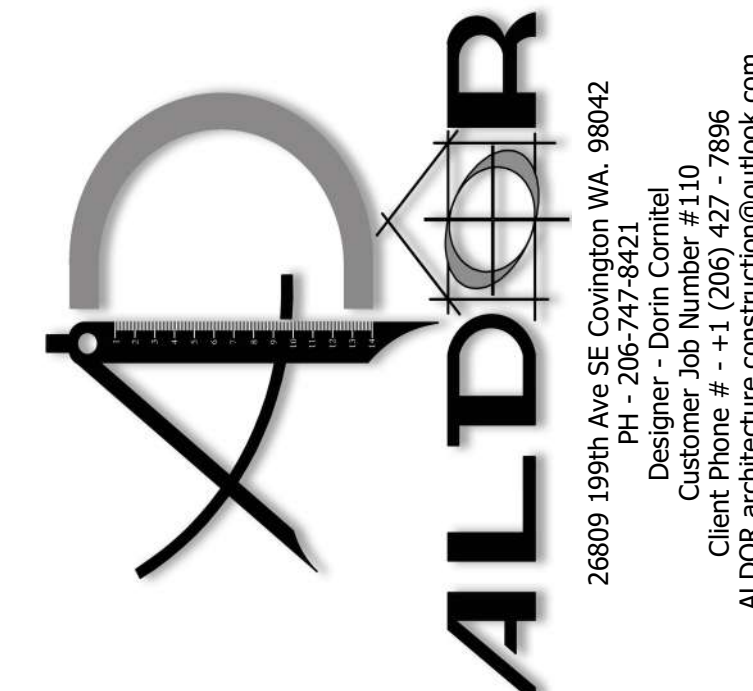


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2021 WASHINGTON STATE ENERGY CREDITS

HEATING OPTION	FUEL NORMALIZATION DESCRIPTION	CREDIT(S)	OPTION	DESCRIPTION	CREDIT(S)																																													
2	FOR AN INITIAL HEATING SYSTEM, USING A HEAT PUMP THAT MEETS FEDERAL STANDARDS FOR THE EQUIPMENT LISTED IN TABLE C403.3.3(2) AND SUPPLEMENTAL HEATING PROVIDED BY ELECTRIC RESISTANCE	1.5	5.7	EFFICIENCY WATER HEATING OPTION: WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING: ELECTRIC HEAT PUMP WATER HEATER WITH A MINIMUM UEF OF 2.9 AND UTILIZING A SPLIT SYSTEM CONFIGURATION WITH THE AIR-TO-REFRIGERANT HEAT EXCHANGER LOCATED OUTDOORS. EQUIPMENT SHALL MEET SECTION 4, REQUIREMENTS FOR ALL UNITS OF THE NEEA STANDARDS ADVANCED WATER HEATING SPECIFICATION WITH THE UEF NOTED ABOVE.	2.5																																													
OPTION	DESCRIPTION	CREDIT(S)																																																
1.2	EFFICIENT BUILDING ENVELOPE: PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.3 WITH THE FOLLOWING MODIFICATIONS: VERTICAL FENESTRATION U=0.25 FLOOR R-38 SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB.	1.0	7.1	APPLIANCE PACKAGE OPTION ALL OF THE FOLLOWING APPLIANCES SHALL BE NEW AND INSTALLED IN THE DWELLING UNIT AND SHALL MEET THE FOLLOWING STANDARDS: 1. DISHWASHER, STANDARD - ENERGY STAR RATED, MOST EFFICIENT 2021 OR DISHWASHER, COMPACT- ENERGY STAR RATED (VERSION 6.0) 2. REFRIGERATOR (IF PROVIDED)- ENERGY STAR RATED (VERSION 5.1) 3. WASHING MACHINE (RESIDENTIAL)- ENERGY STAR RATED (VERSION 8.1) 4. DRYER - ENERGY STAR RATED, MOST EFFICIENT 2022	0.5																																													
2.2	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION COMPLIANCE BASED ON SECTION R402.4.1.2: REDUCE THE TESTED AIR LEAKAGE TO 1.5 AIR CHANGES PER HOUR MAXIMUM @ 50 PASCAL'S, OR FOR R-2 OCCUPANCIES, OPTIONAL COMPLIANCE BASED ON SECTION R402.4.1.2: REDUCE THE TESTED AIR LEAKAGE TO 0.20 CFM/FT2 MAXIMUM @ 50 PASCAL'S.	1.5																																																
MEDIUM DWELLING UNIT -----					8.0																																													
CREDITS DWELLING UNITS UP TO 5,000 SQ. FT. OF CONDITIONED FLOOR AREA																																																		
<table border="0"> <tr><td>A. Lot Area</td><td></td><td></td><td></td><td>Square Feet</td></tr> <tr><td>B. Zone R-8.4</td><td><input checked="" type="checkbox"/></td><td>R-9.6</td><td><input type="checkbox"/></td><td>R-12</td><td><input type="checkbox"/></td><td>R-15</td><td><input type="checkbox"/></td></tr> <tr><td>C. Allowed Gross Floor Area (refer to "allowed GFA")</td><td></td><td></td><td></td><td>5,000</td><td></td><td></td><td>Square Feet</td></tr> <tr><td>D. Allowed Gross Floor Area</td><td></td><td></td><td></td><td>40</td><td></td><td></td><td>% of Lot</td></tr> <tr><td>E. Proposed Gross Floor Area</td><td></td><td></td><td></td><td>4,999</td><td></td><td></td><td>Square Feet</td></tr> <tr><td>F. Proposed Gross Floor Area</td><td></td><td></td><td></td><td>38.5%</td><td></td><td></td><td>% of Lot</td></tr> </table>						A. Lot Area				Square Feet	B. Zone R-8.4	<input checked="" type="checkbox"/>	R-9.6	<input type="checkbox"/>	R-12	<input type="checkbox"/>	R-15	<input type="checkbox"/>	C. Allowed Gross Floor Area (refer to "allowed GFA")				5,000			Square Feet	D. Allowed Gross Floor Area				40			% of Lot	E. Proposed Gross Floor Area				4,999			Square Feet	F. Proposed Gross Floor Area				38.5%			% of Lot
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a,c,d 3.3	AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MIN. (HSPF 9.5) HSPF 8.5 IN AREAS WHERE THE WINTER DESIGN TEMPERATURE AS SPECIFIED IN APPENDIX RC IS 23°F OR BELOW, A COLD CLIMATE HEAT PUMP FOUND ON THE NEEP CC ASHP QUALIFIED PRODUCT LIST SHALL BE USED.	0.5																																																
3.11 ^a	CONNECTED THERMOSTAT MEETING ENERGY STAR CERTIFIED SMART THERMOSTATS/EPA ENERGY STAR SPECIFICATION. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE THERMOSTAT MODEL.	0.5																																																

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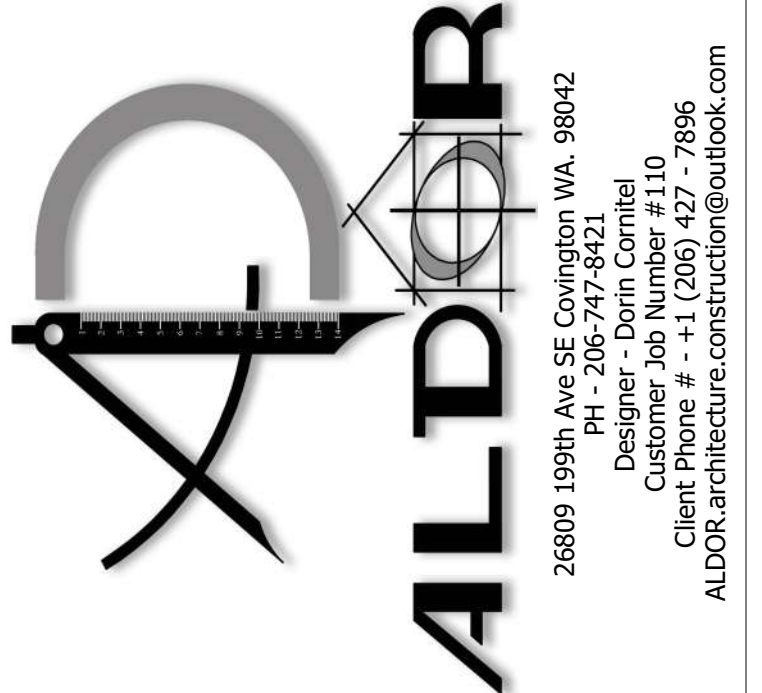
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THESE PLANS WERE EXCLUSIVELY DESIGNED FOR
RUSSELL PALANCHUCK
 9734 SE 40TH ST
 MERCER ISLAND, WA
 98040
 PARCEL # - 265550-0176

HOME OWNER / GENERAL CONTRACTORS SHALL VERIFY ALL SETBACKS, DIMENSIONS, STRUCTURAL DETAILS, BUILDING CODES, AND GRADING REQUIREMENTS, AND DIMENSIONS ACCORDING TO SITE CONDITIONS. ALL SUBCONTRACTORS SHALL COORDINATE CLOSELY WITH THEIR RESPECTIVE CONTRACTOR ARCHITECT SHALL NOT BE HELD RESPONSIBLE FOR ERRORS CAUSED DUE TO ANY MISUNDERSTANDING OR MISCOMMUNICATION BETWEEN SUB-CONTRACTORS AND HOMEOWNER.
 THESE PLANS ARE DIAGRAMMATIC IN NATURE AND ARE OF THE BUILDING'S CONSTRUCTION. THESE PLANS ARE INTENDED TO PROVIDE ADEQUATE INFORMATION TO THE CONTRACTOR TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH LOCAL AND INTERNATIONAL COMPLIANCE WITH BUILDING CODES. ITEMS WHICH ARE NOT SPECIFIED IN THESE PLANS OR CONSTRUCTION MAY NOT APPEAR WITHIN THESE PLANS.

Sheet Description
COVER SHEET
 Plan Name
 9734 SE 40TH ST
 MERCER ISLAND WA.
 98040
1 OF 14

THIS SET OF PLANS IS LICENSED FOR ONE TIME USE



FOUNDATION VENT CALCULATIONS

UNDER FLOOR VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH IRC R408.1 & R408.2. A MINIMUM OF 1 SQUARE FOOT OF NET VENTILATION SHALL BE PROVIDED FOR EACH 300 SQUARE FEET OF UNDER FLOOR AREA. ONE VENT SHALL BE PROVIDED WITHIN 3 FEET OF EACH CORNER OF THE BUILDING.

VENTS SHALL BE 6"x16" SCREENED FOUNDATION VENTS = .67 SQ. FT.

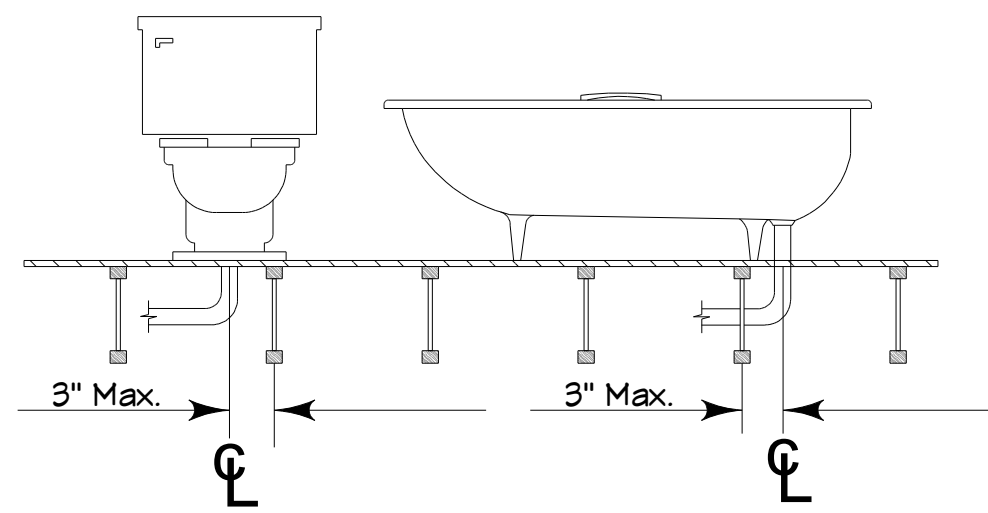
UNDER FLOOR AREA = 2,200 SQ. FT.

2,200 Sq. Ft./300 = 7.33 Sq. Ft. / .67sq. Ft. OF VENTILATION REQUIRED -OR- 11 VENTS

NOTE: TO PREVENT WATER WICKING MUD SILL PLATE - RIM JOIST & EXTERIOR WALL TO EXTEND OVER STEM WALL 1/2" FOLLOW DETAIL 7/11

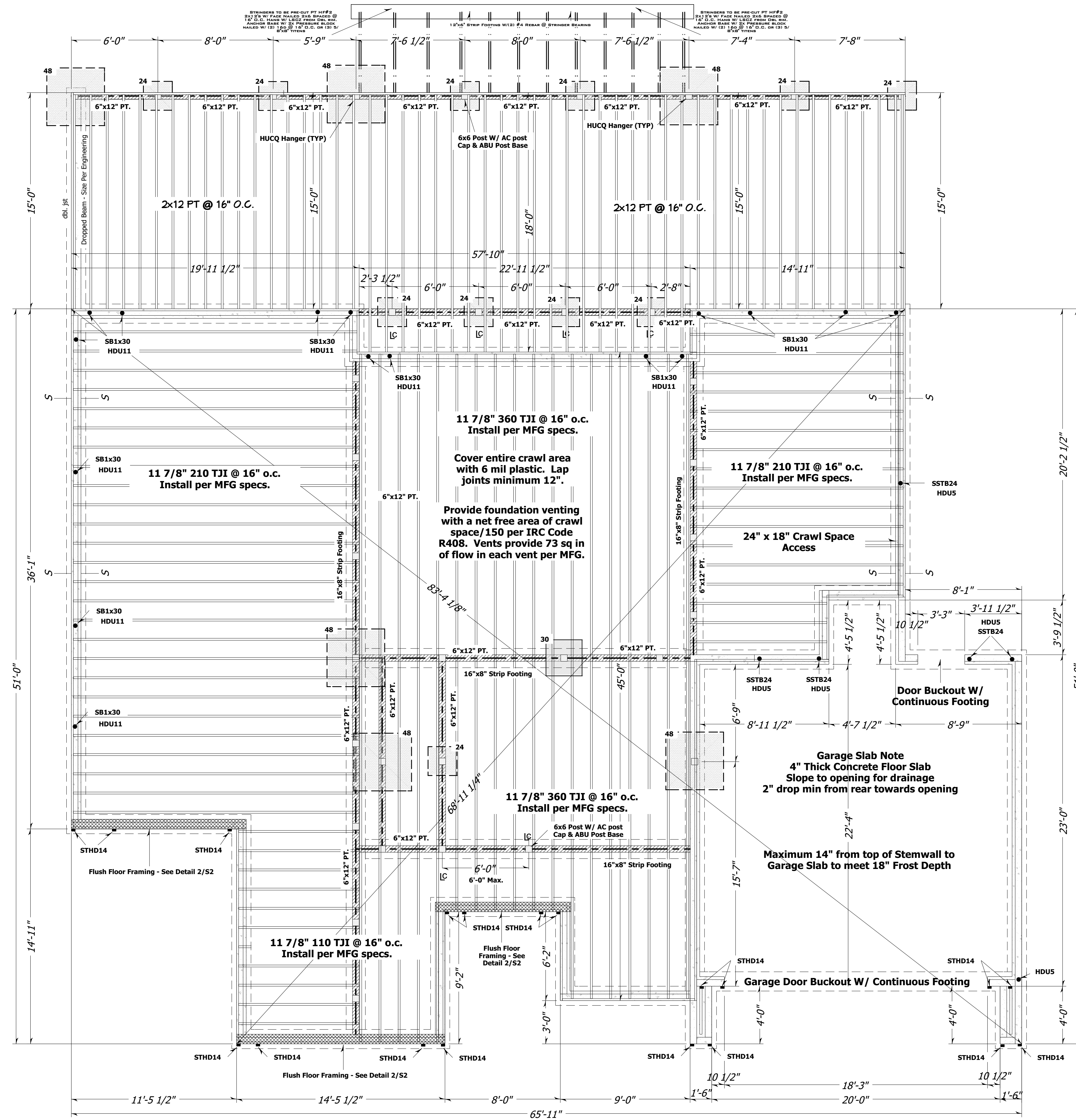
NOTE: ENSURE VENTS ARE NOT AT THE HOLDDOWN OR POINT LOAD LOCATIONS (TYP)

CONTRACTOR TO VERIFY PLUMBING DROPS DO NOT INTERFERE WITH FLOOR FRAMING



LP I-JOISTS CAN BE OFFSET UP TO 3" TO AVOID VERTICAL PLUMBING

HOLD-DOWNS: STHD14; HDU11; HDU5



FOUNDATION PLAN
SCALE 1/4" = 1'

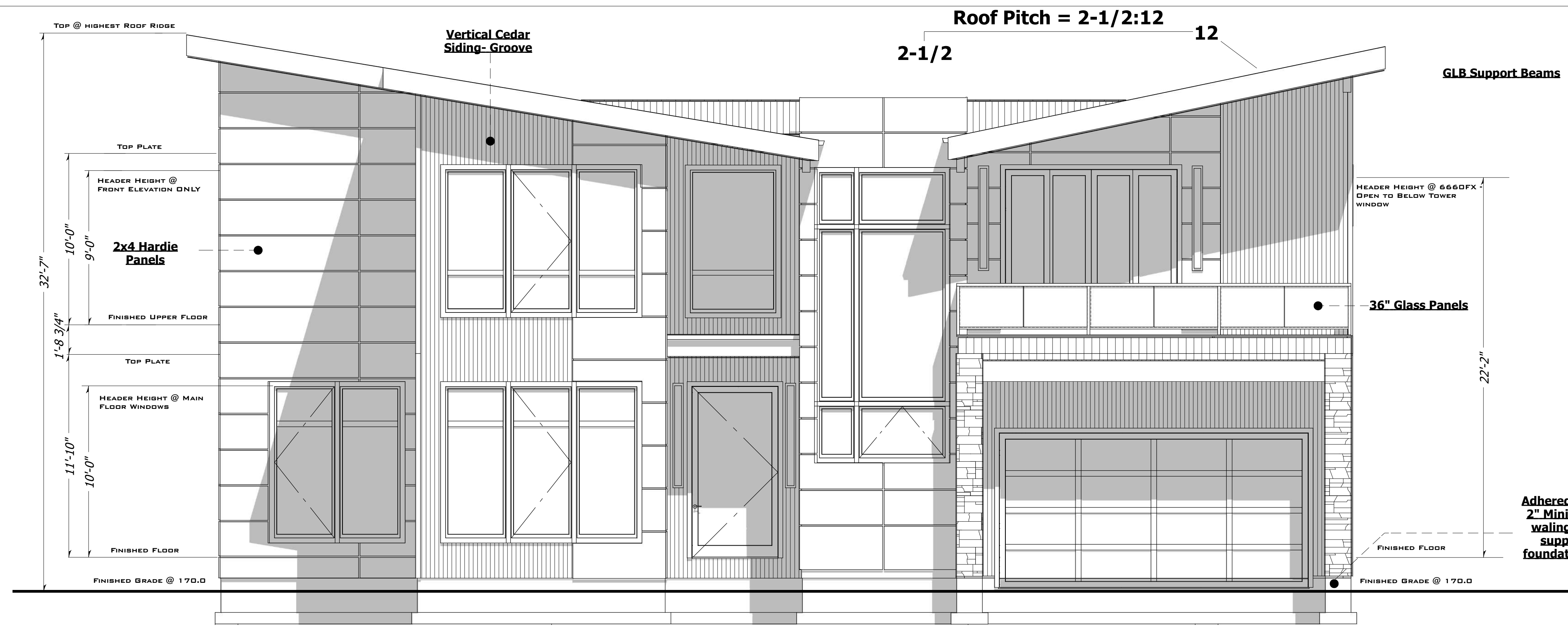
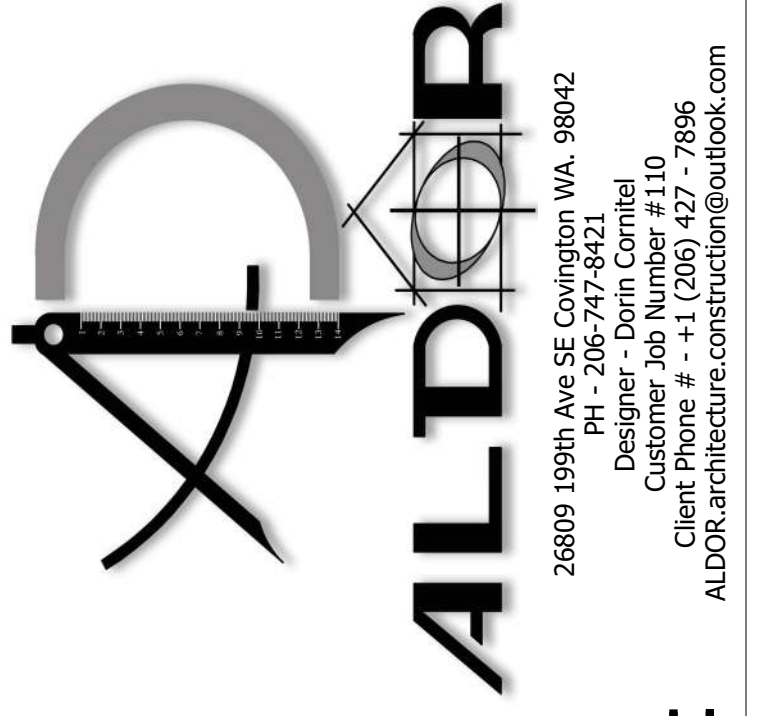
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FOUNDATION PLAN
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9734 SE 40TH ST MERCER ISLAND WA. 98040

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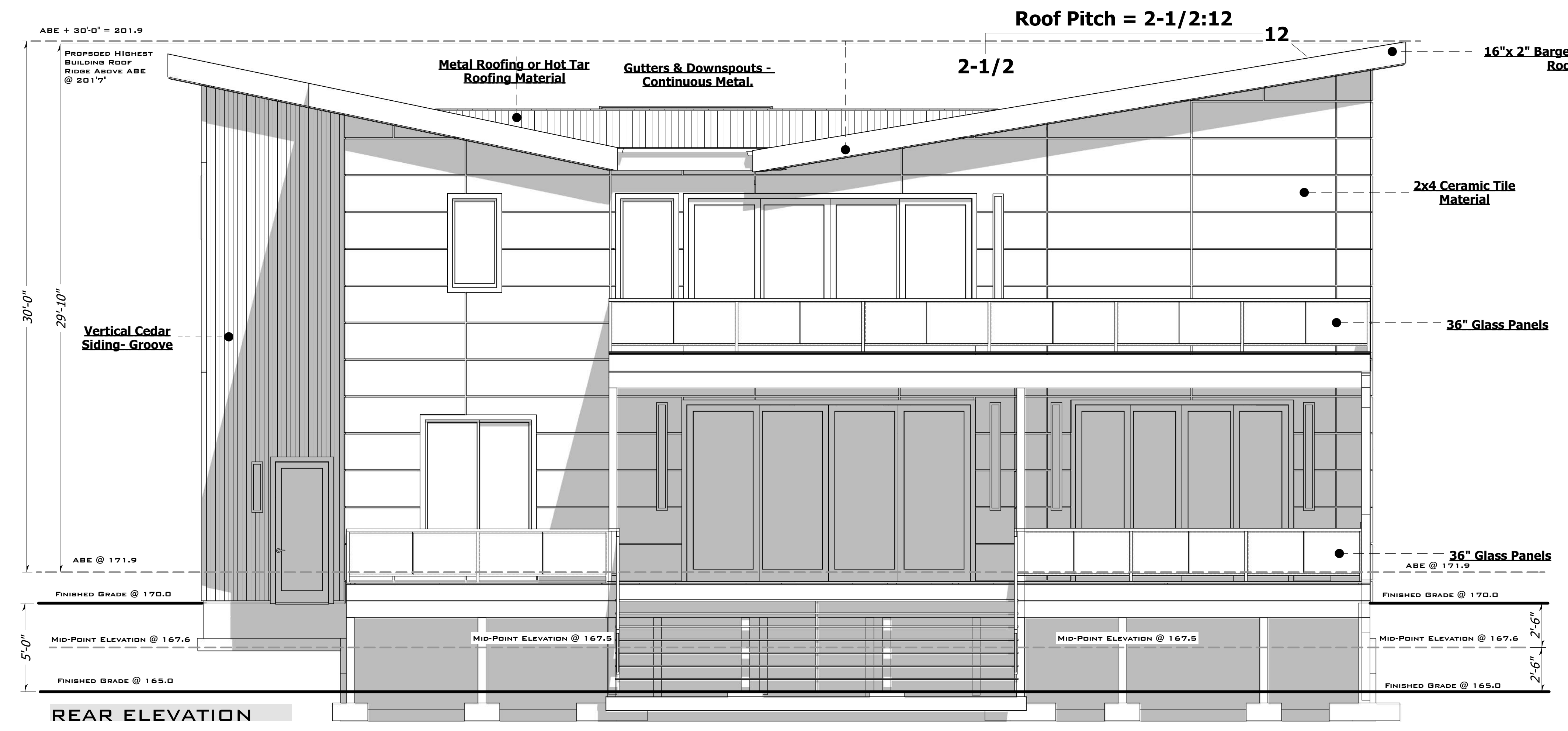
FRONT ELEVATION

Adhered masonry veneer - 1/2" Minimum Above exterior walling surfaces which are supported by the same foundation that supports the exterior wall.

NOTE: ADHERED MASONRY VENEER IS REQUIRED TO HAVE THE FOLLOWING CLEARANCES PER IRC R703.1.2.1: 4" MINIMUM ABOVE THE EARTH, 2" MINIMUM ABOVE PAVED AREAS, AND 1/2" MINIMUM ABOVE EXTERIOR WALKING SURFACES WHICH ARE SUPPORTED BY THE SAME FOUNDATION THAT SUPPORTS THE EXTERIOR WALL.

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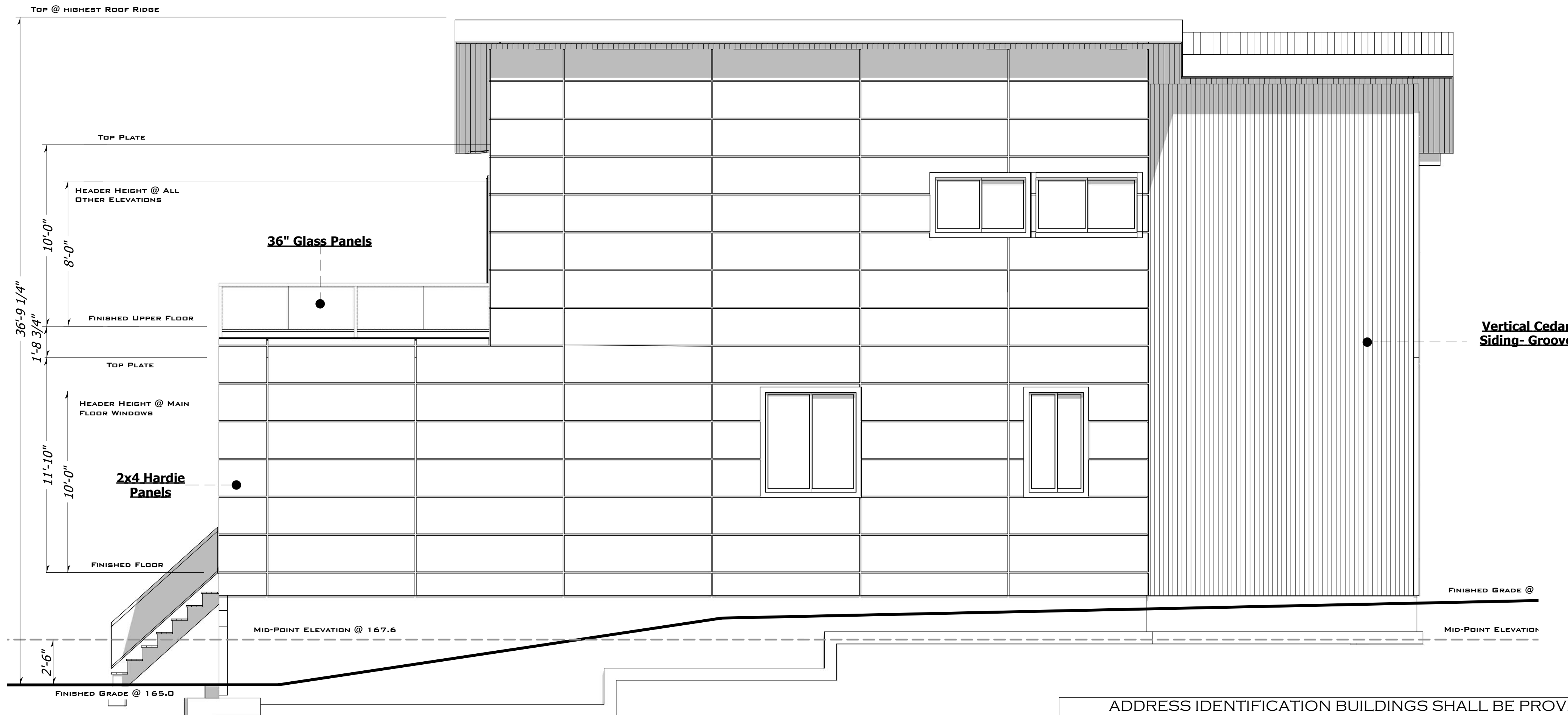
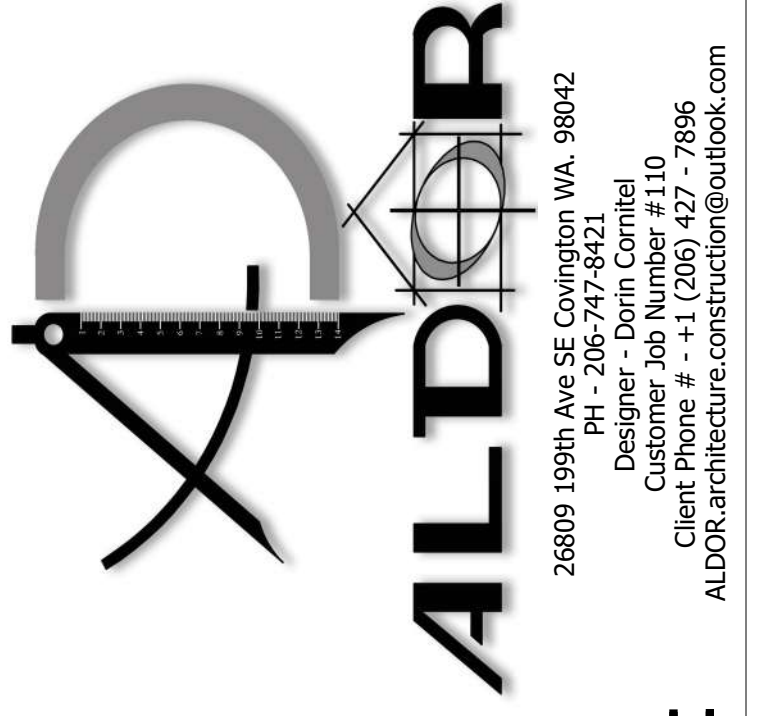
REAR ELEVATION

ELEVATIONS SCALE 1/4" = 1'

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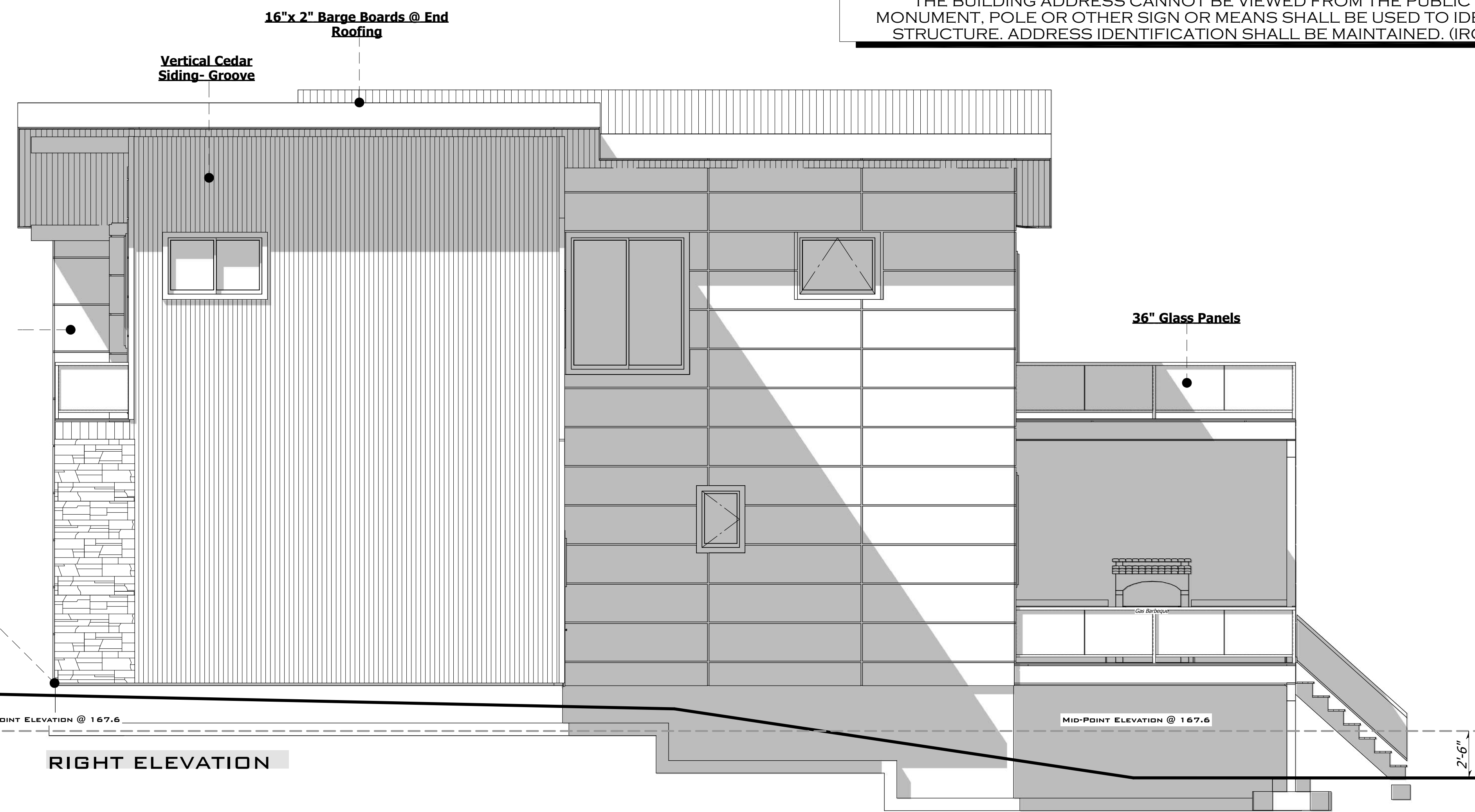
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LEFT ELEVATION

SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION THAT DOES NOT CREATE A HAZARD. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL NOT FEWER THAN 6" WITHIN THE FIRST 10' (R401.3).

ADDRESS IDENTIFICATION BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL NOT BE SPELLED OUT. EACH CHARACTER SHALL BE NOT LESS THAN 4 INCHES IN HEIGHT WITH A STROKE WIDTH OF NOT LESS THAN 0.5 INCH. WHERE REQUIRED BY THE FIRE CODE OFFICIAL, ADDRESS IDENTIFICATION SHALL BE PROVIDED IN ADDITIONAL APPROVED LOCATIONS TO FACILITATE EMERGENCY RESPONSE. WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. ADDRESS IDENTIFICATION SHALL BE MAINTAINED. (IRC R319.1)



RIGHT ELEVATION

Adhered masonry veneer - 1/2" Minimum Above exterior waling surfaces which are supported by the same foundation that supports the exterior wall.

ELEVATIONS SCALE 1/4" = 1'

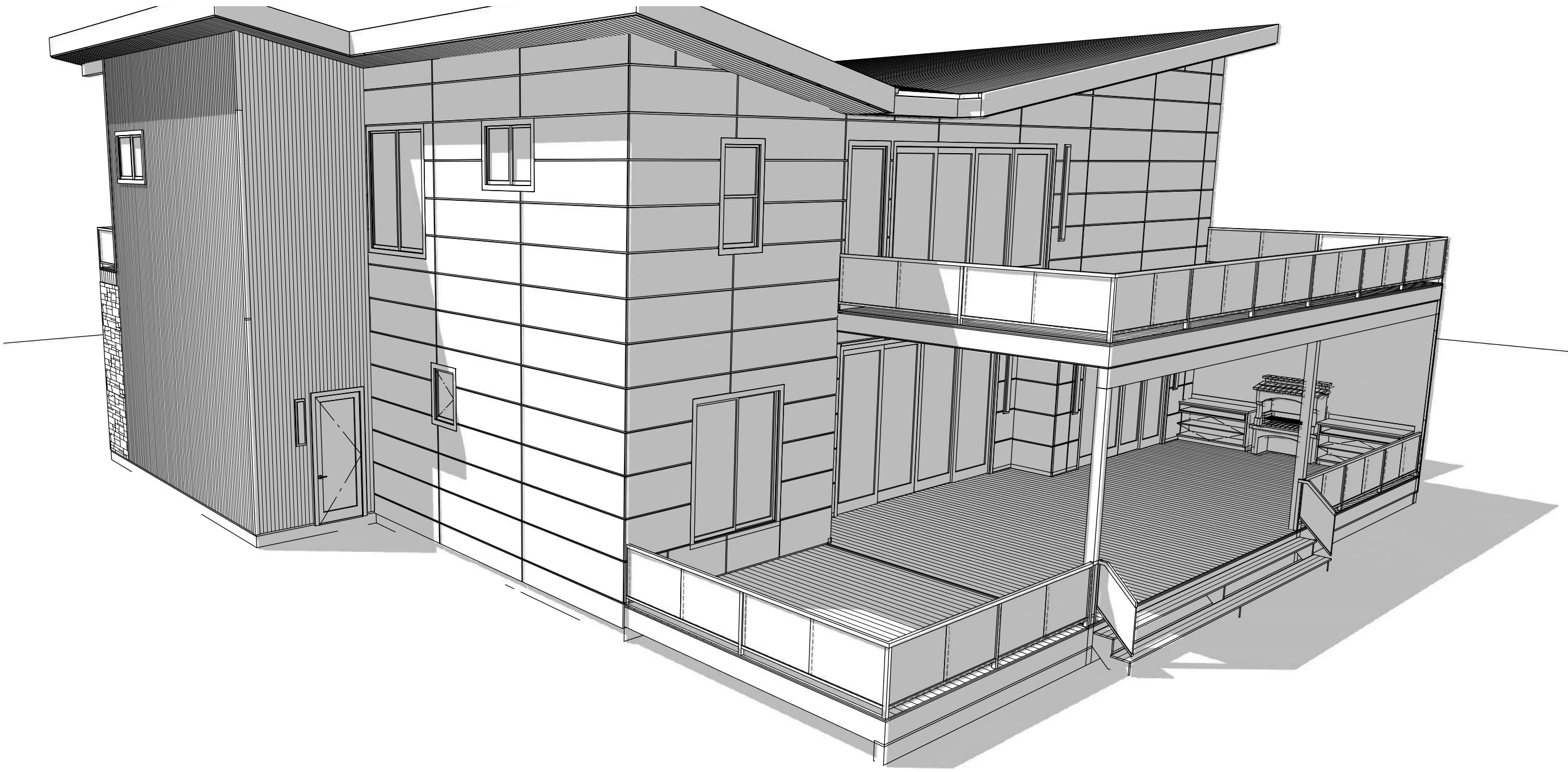
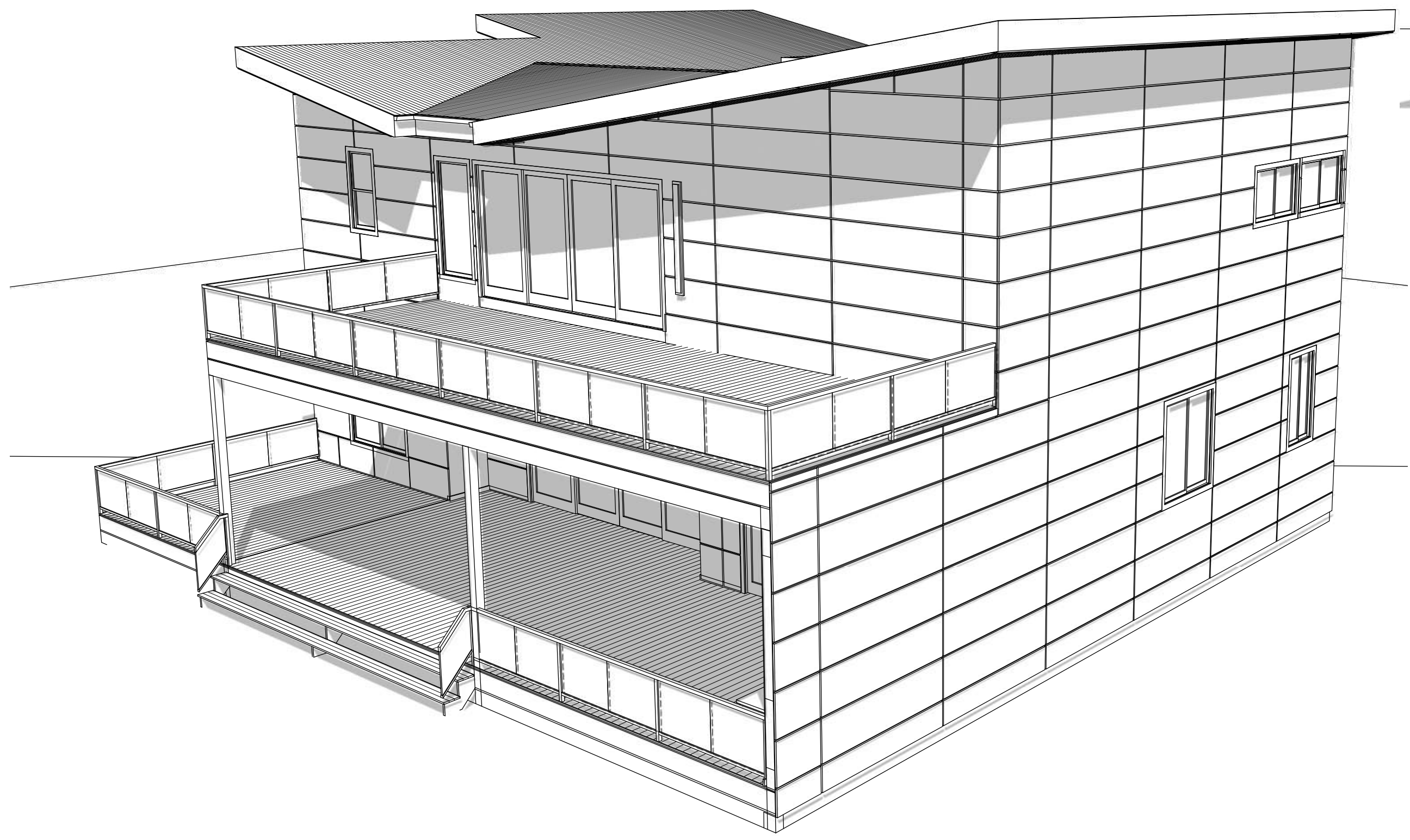
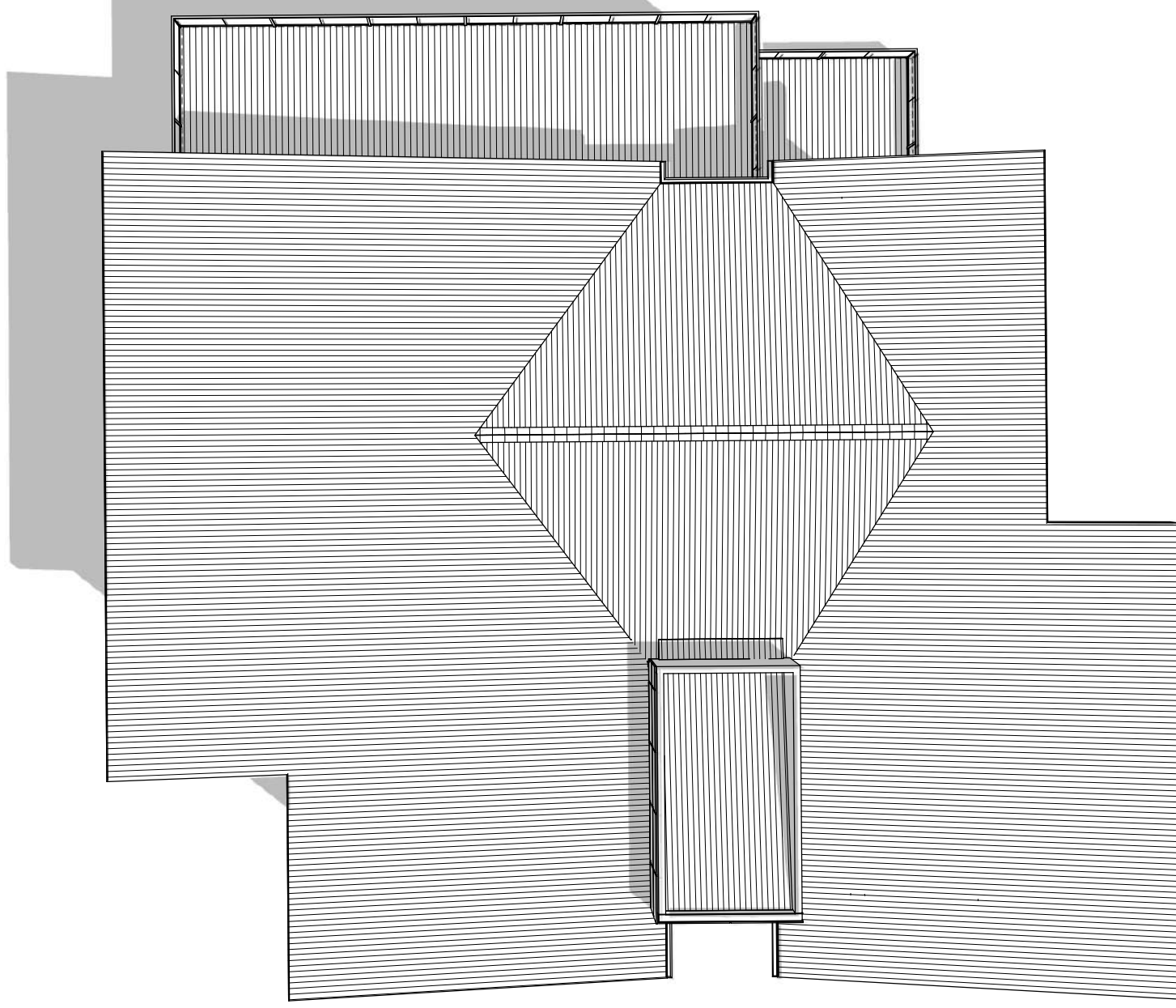
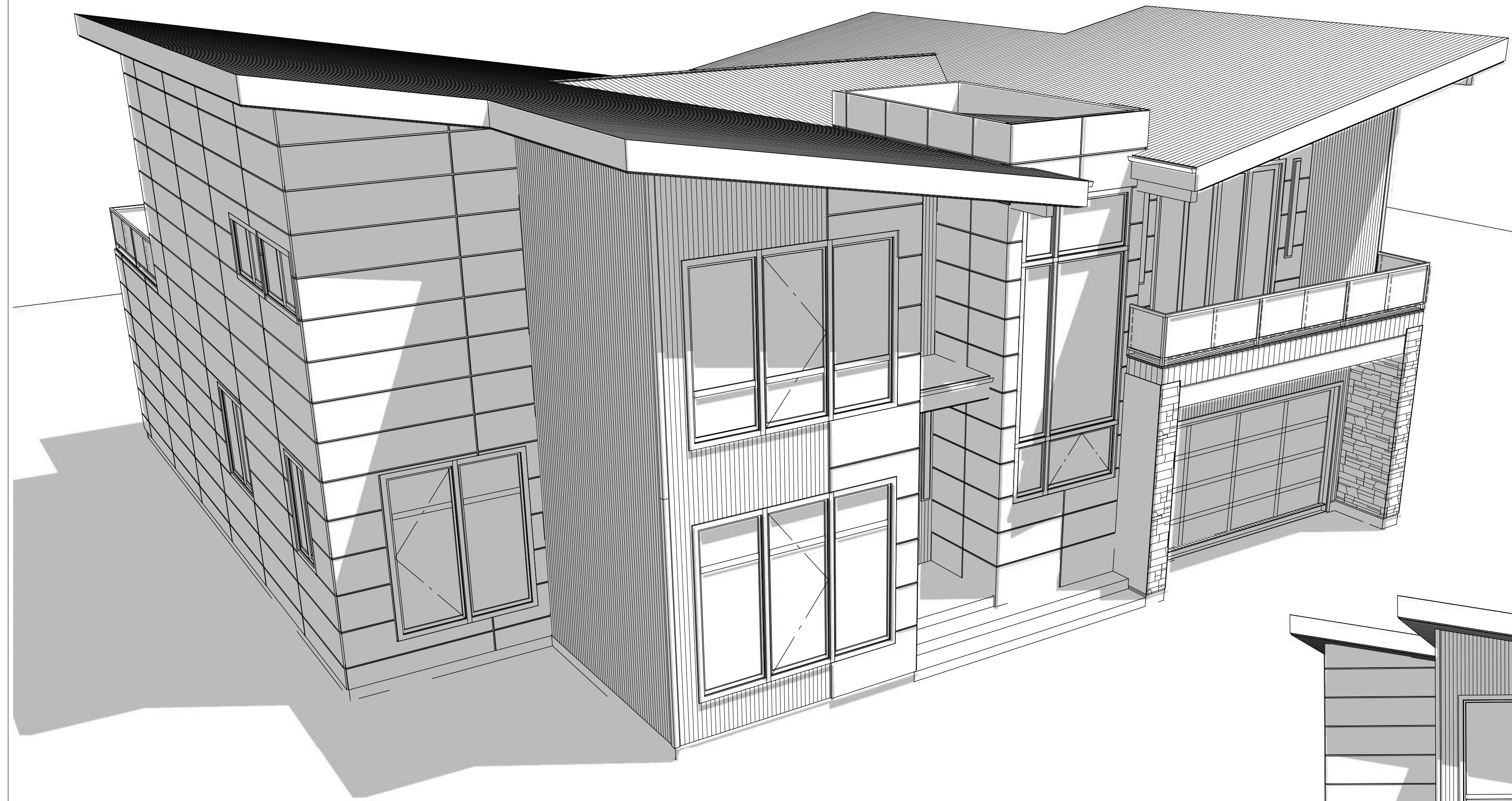
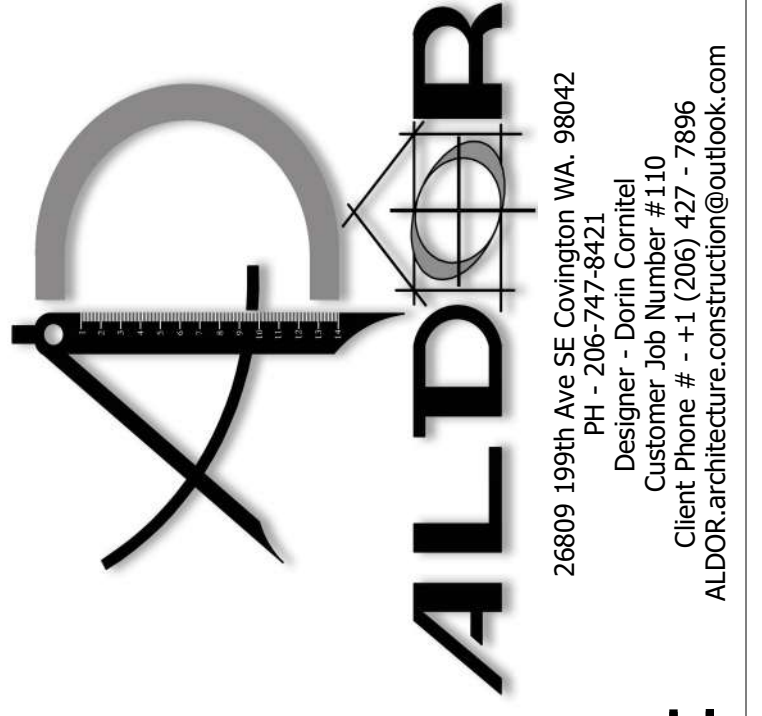
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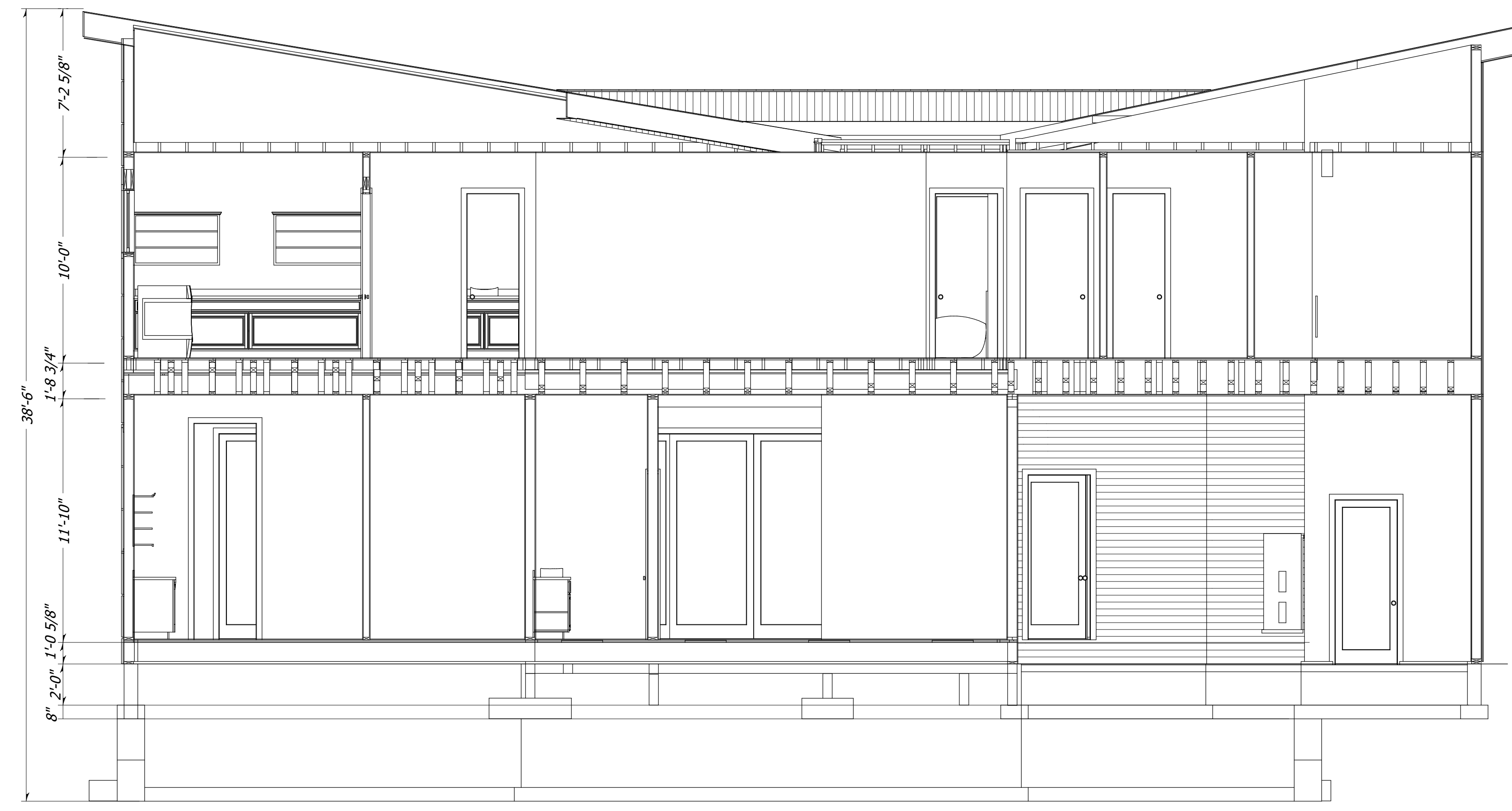
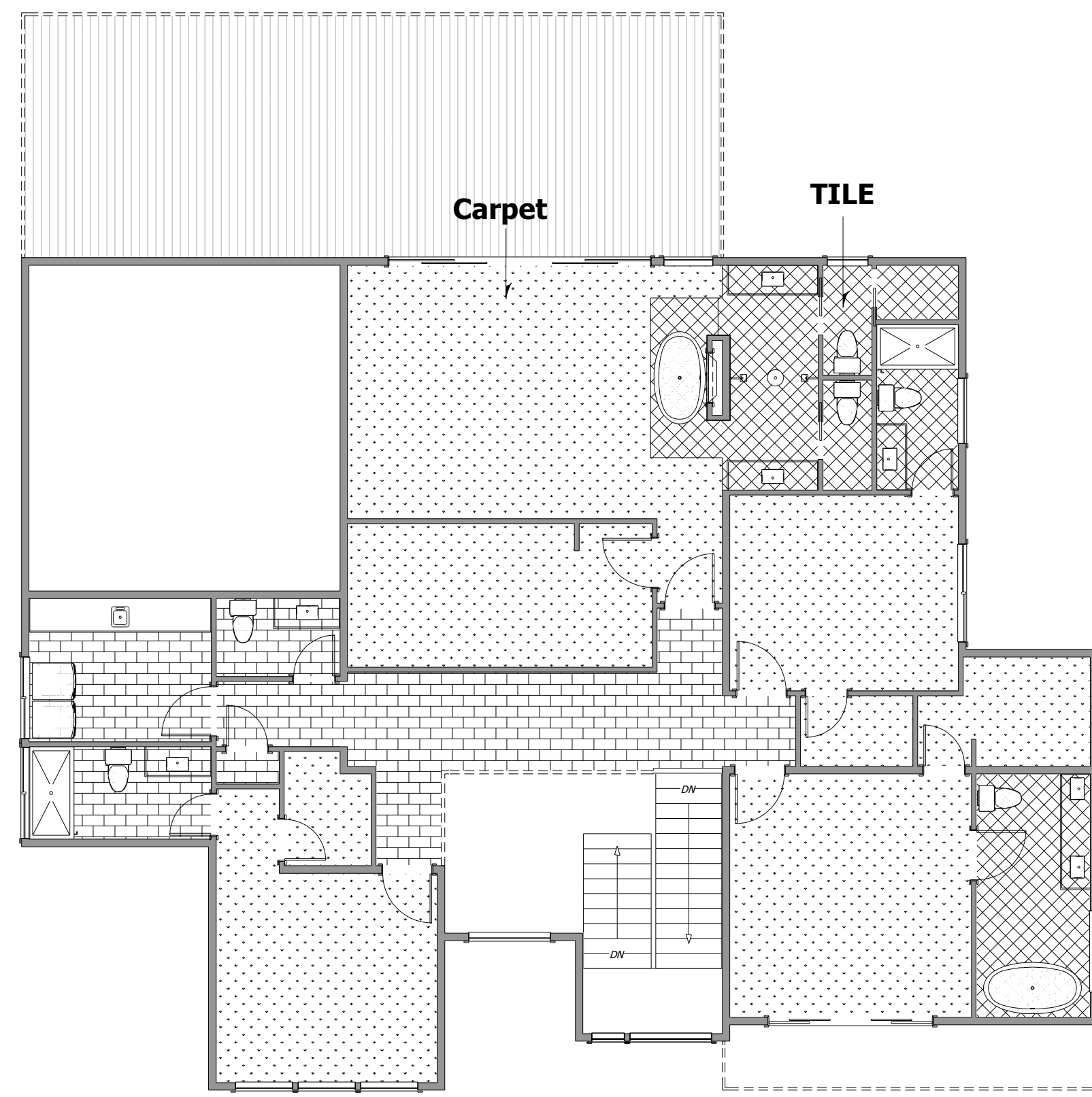
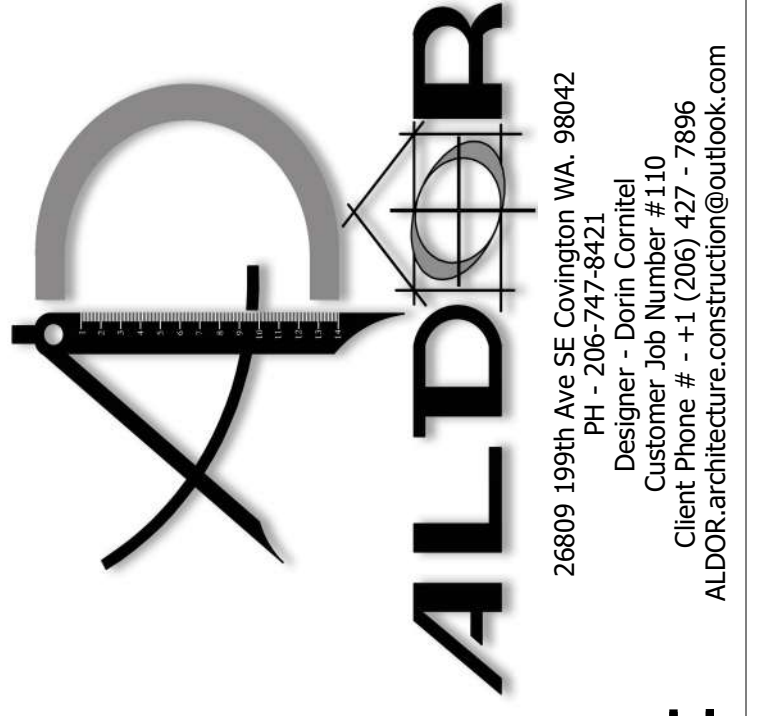
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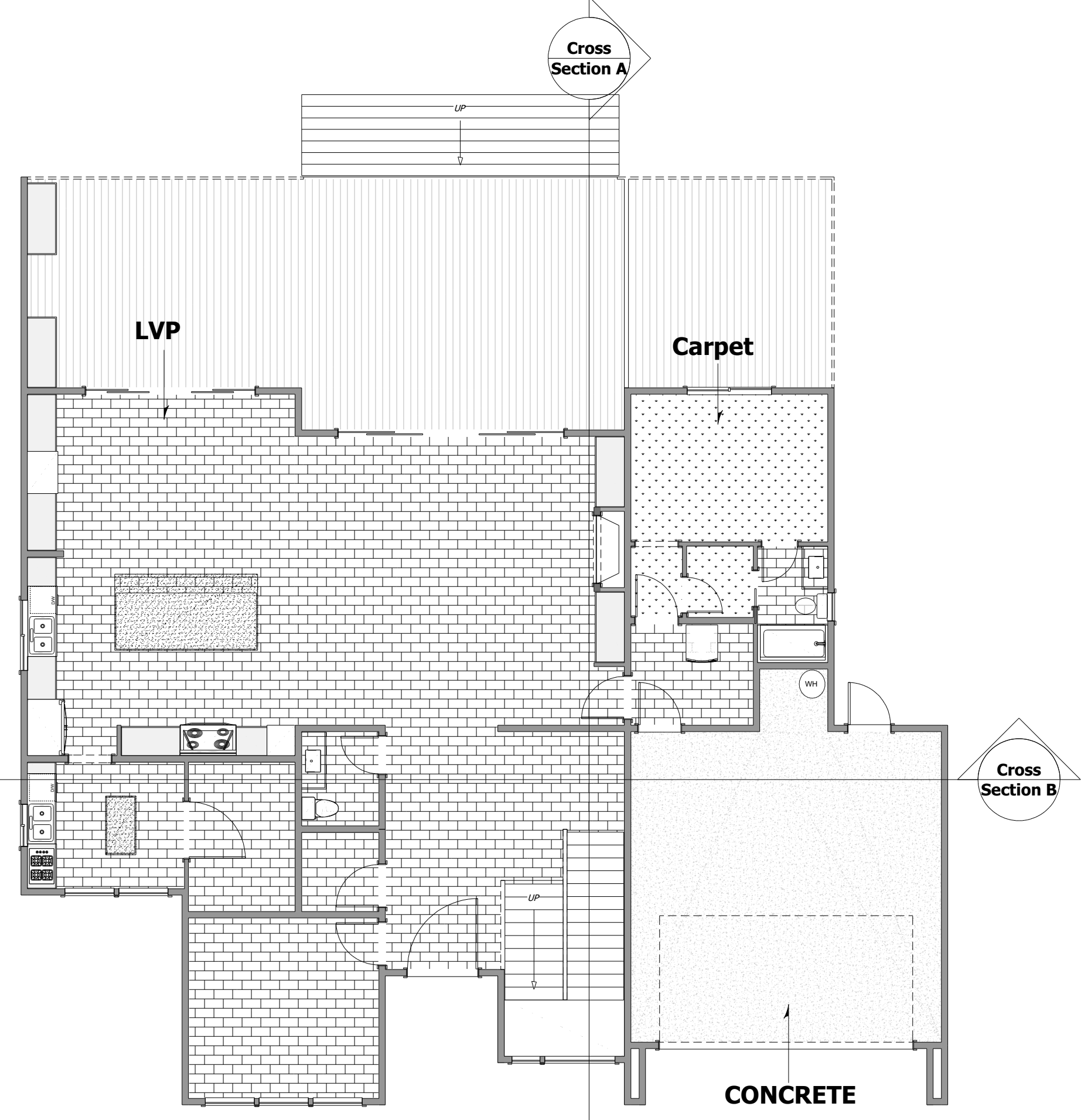
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3D's
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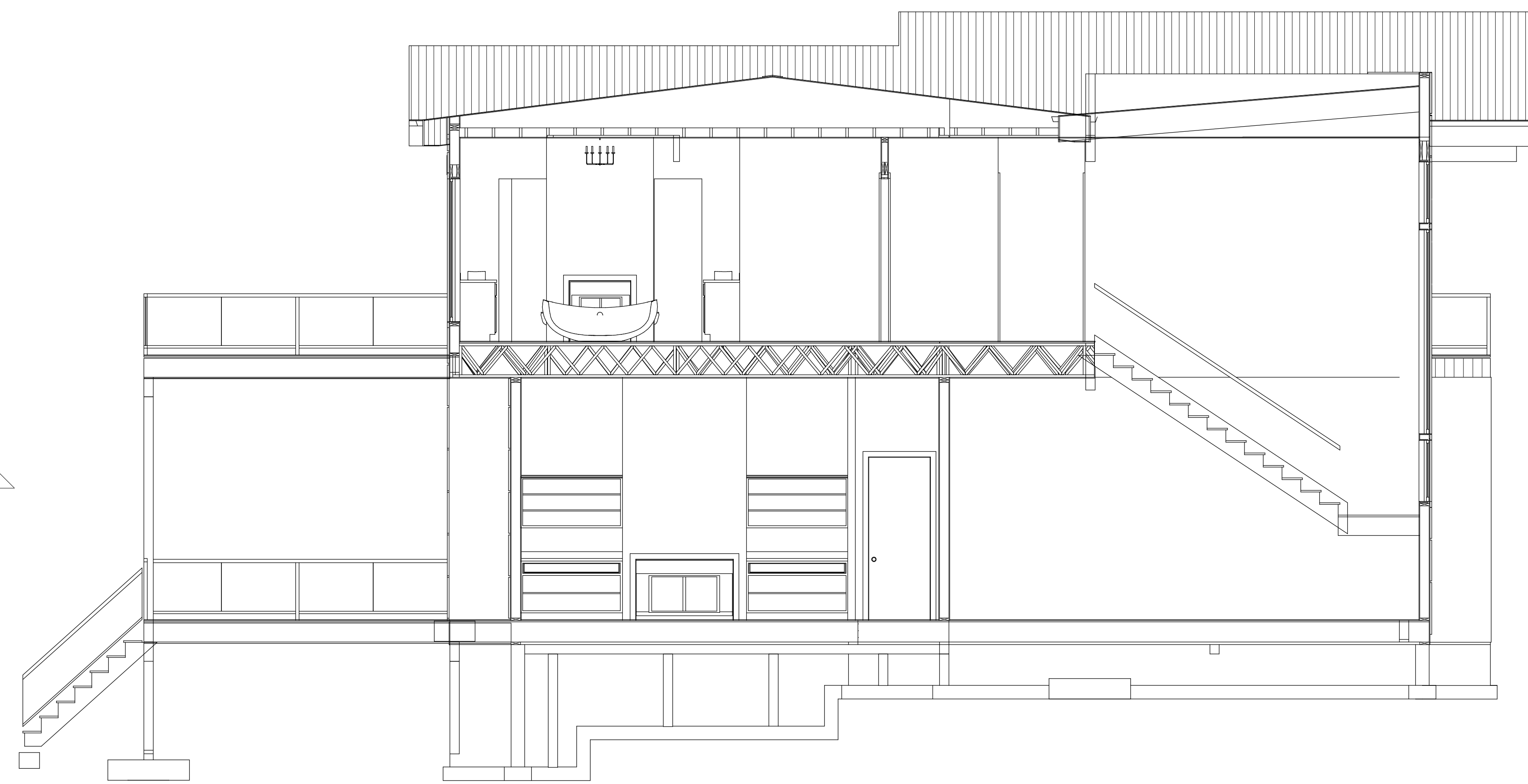
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CROSS SECTION A
 SCALE 1/4" = 1'



FLOOR COVERING
 SCALE 1/8" = 1'



CROSS SECTION B
 SCALE 1/4" = 1'

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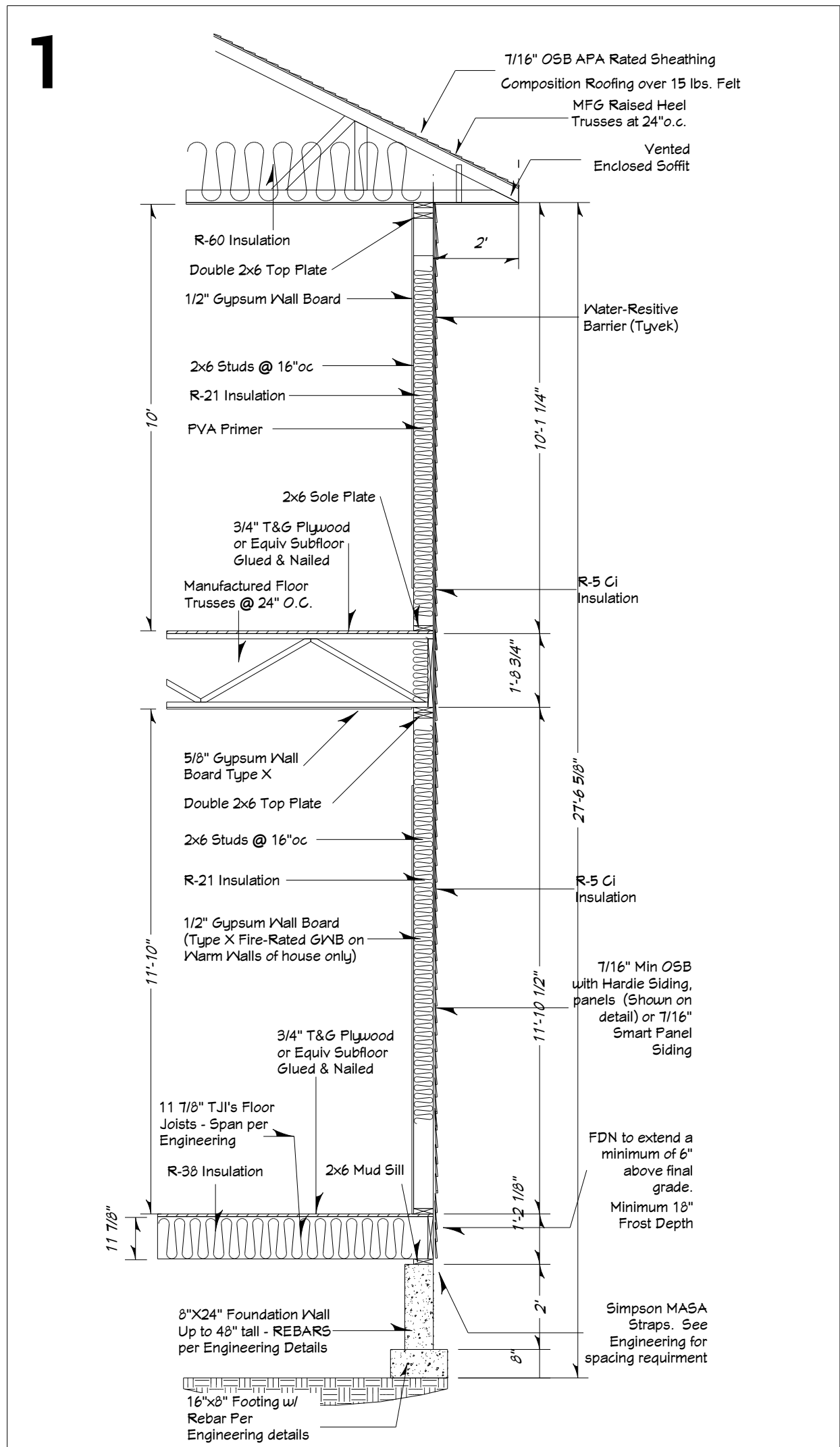
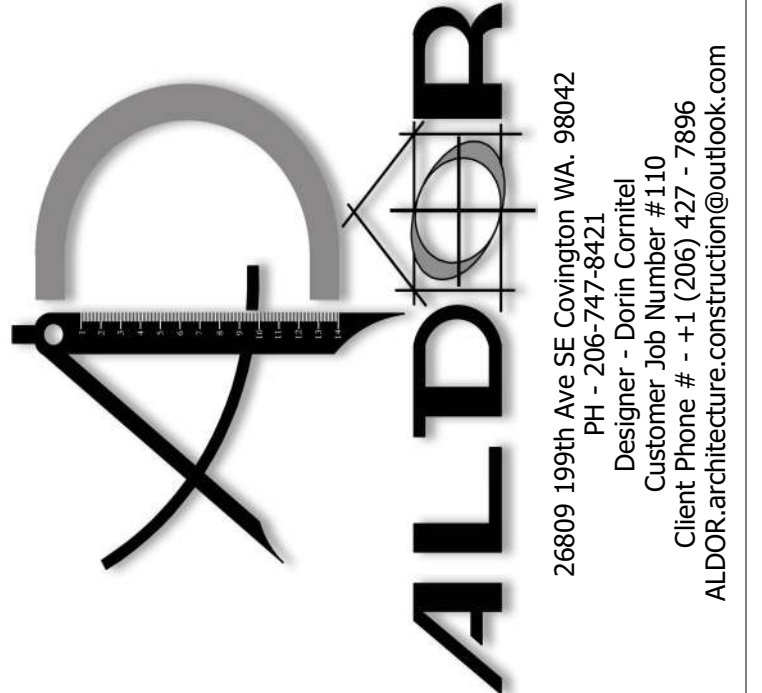
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 98040
 PARCEL # - 265550-0176

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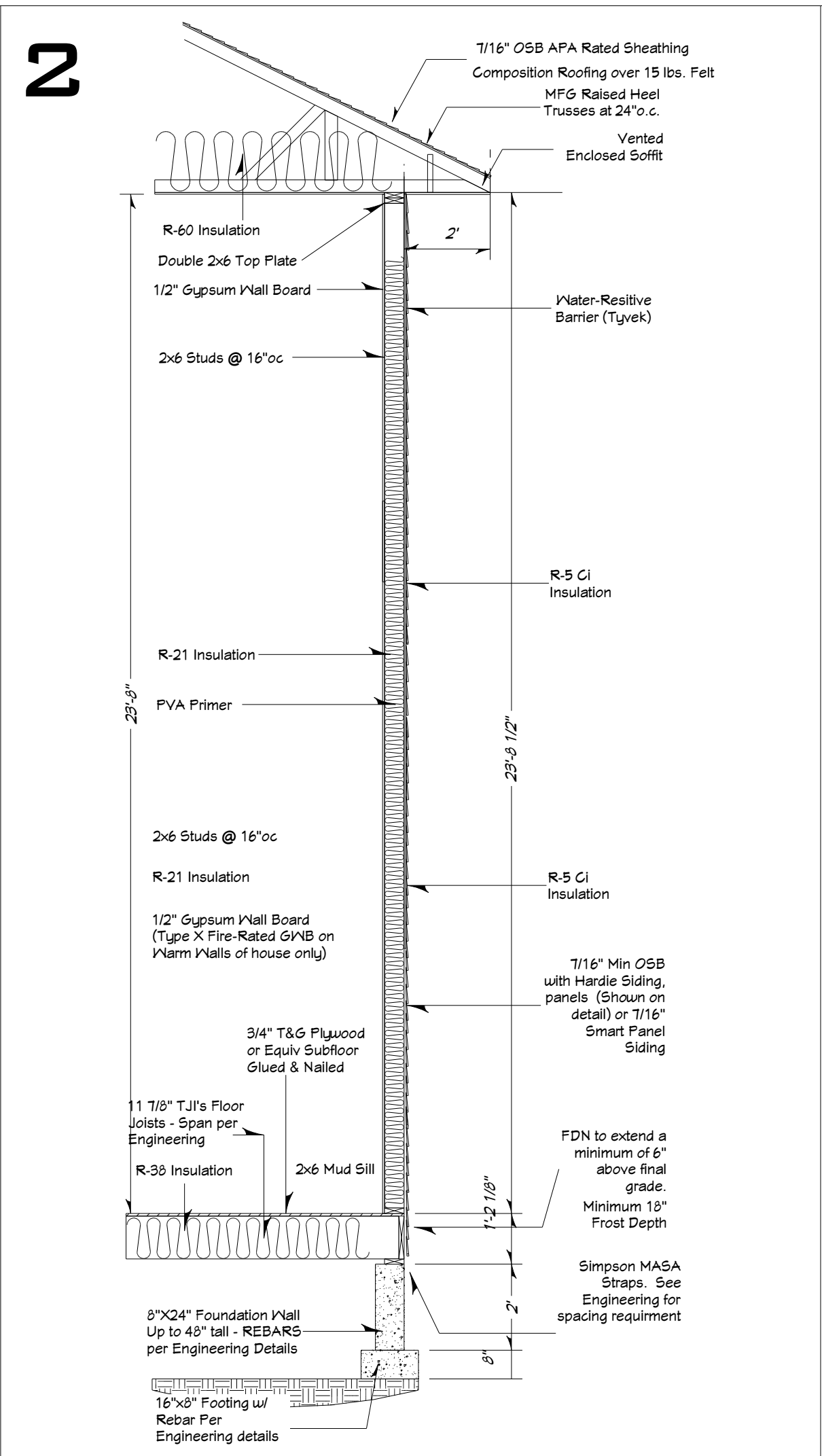
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Sheet Description
CROSS SECTIONS & FLOOR COVERING
 Plan Name
 9734 SE 40TH ST
 MERCER ISLAND WA.
 98040

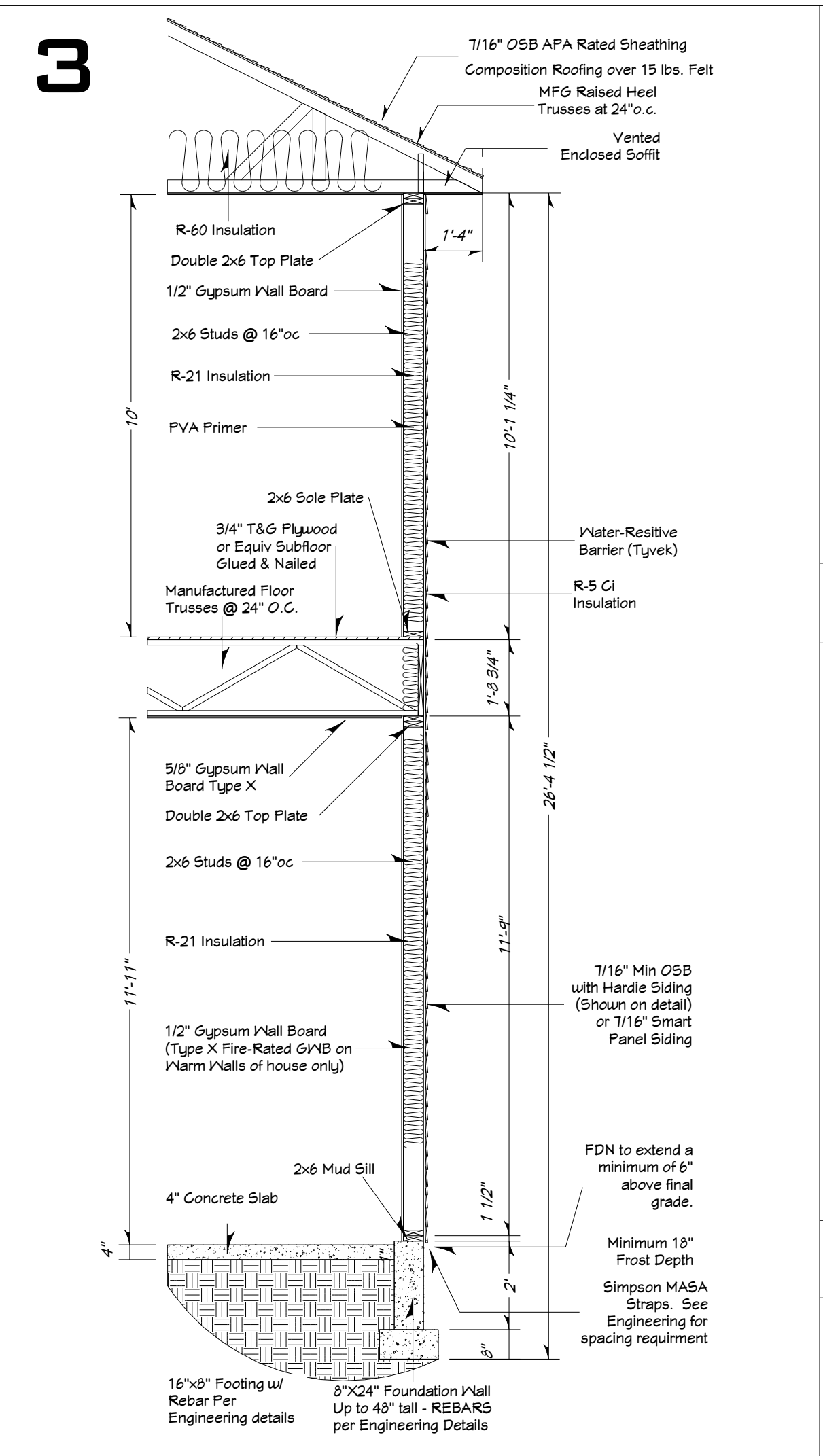
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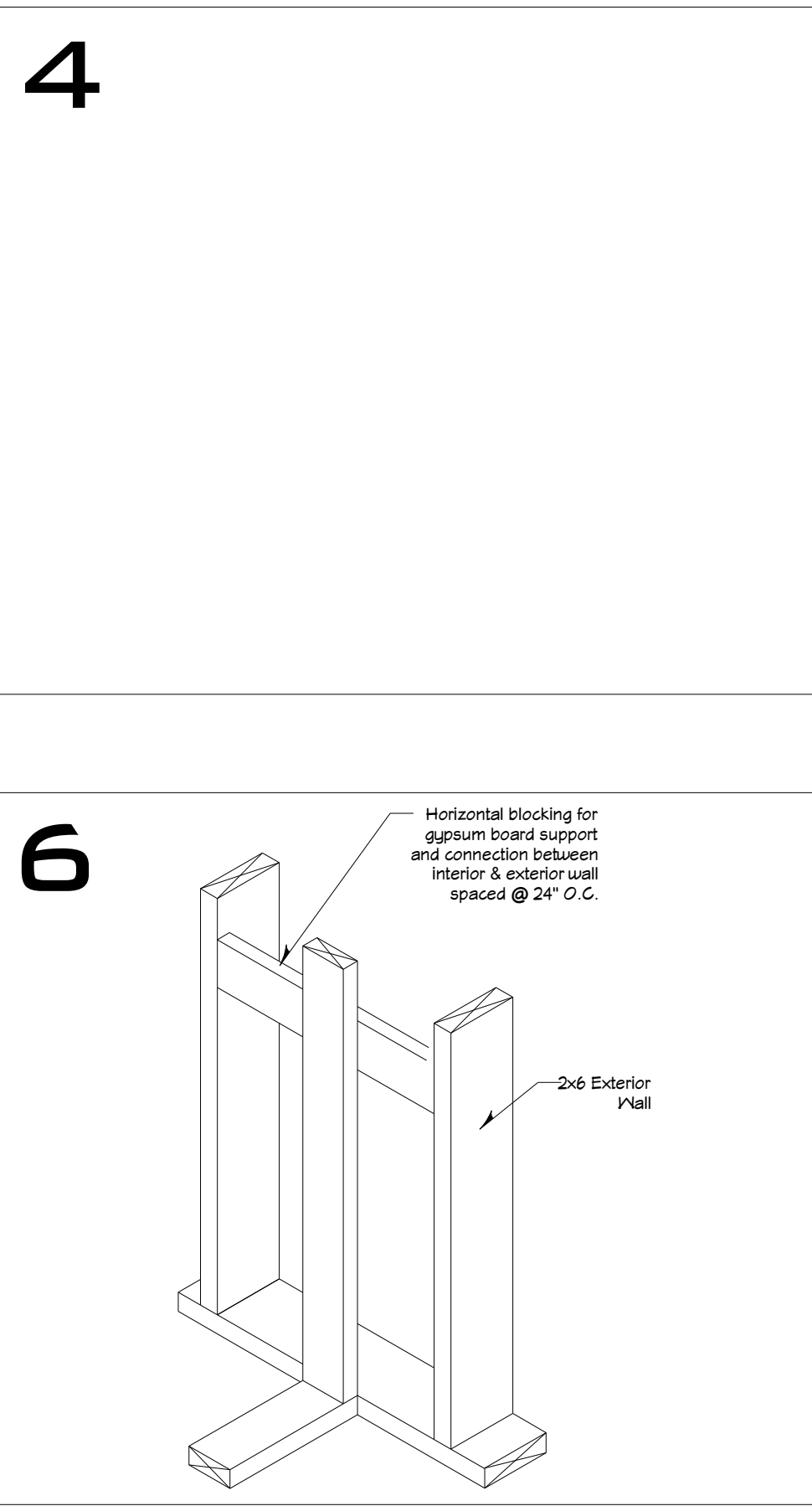
2- STORY CROSS SECTION



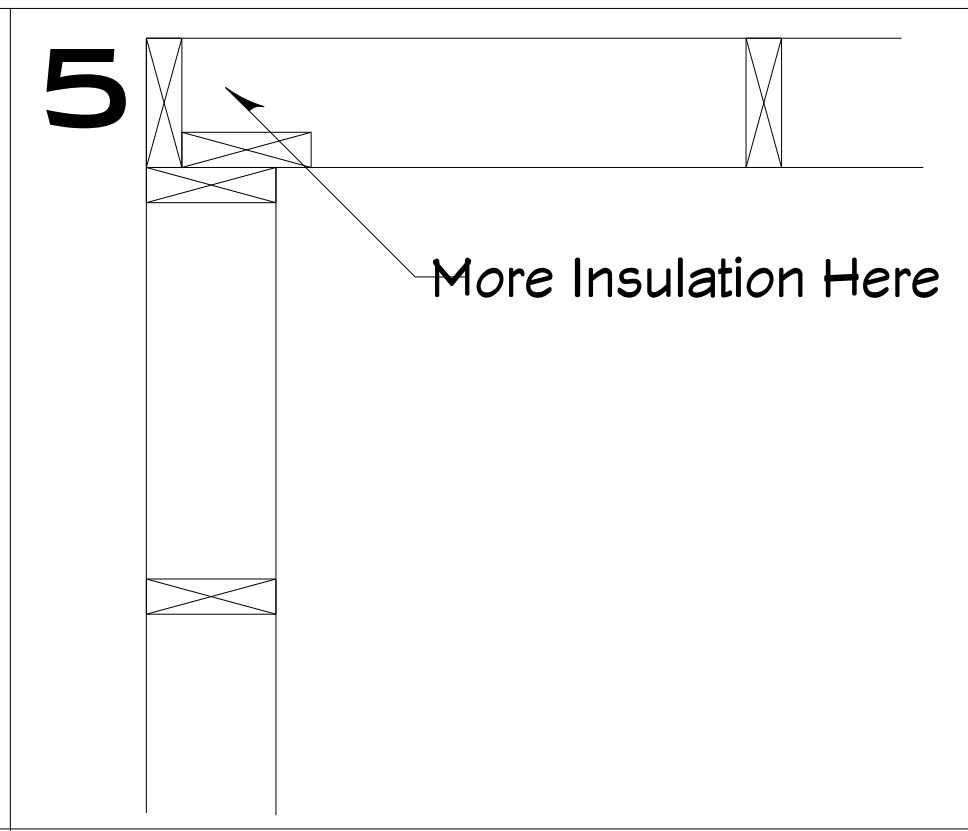
2- STORY OPEN TO BELOW



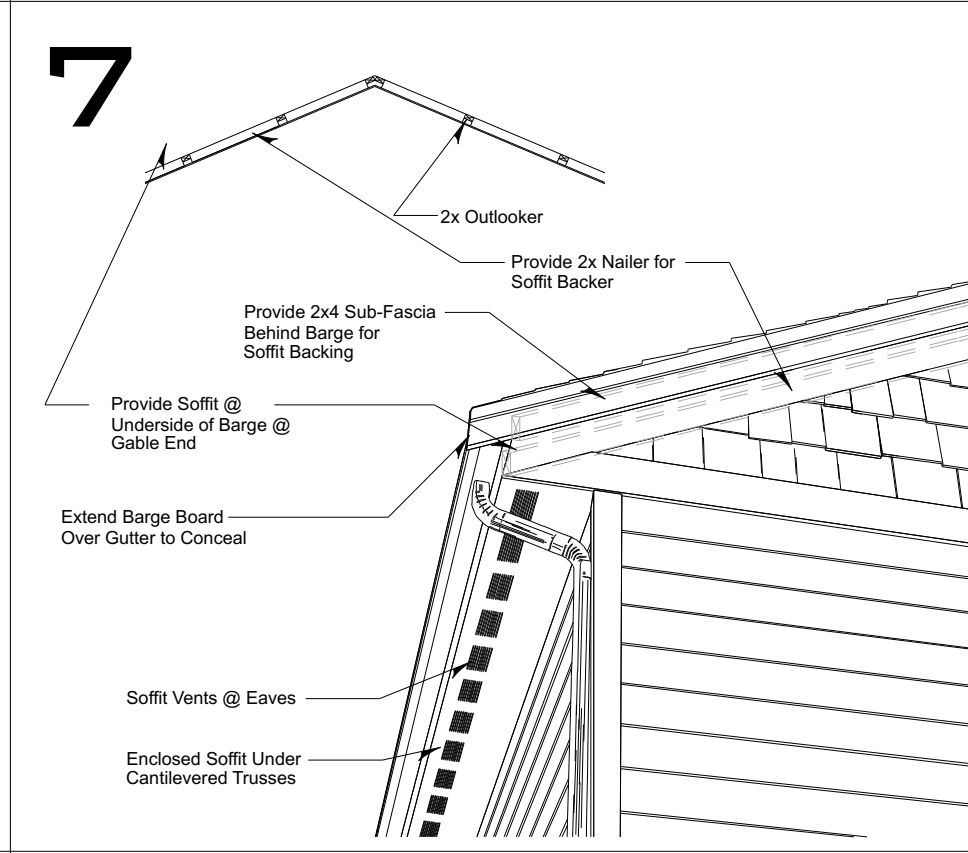
GARAGE SECTION W/ LIVING SPACE ABOVE



LADDER FRAMING WALL DETAIL

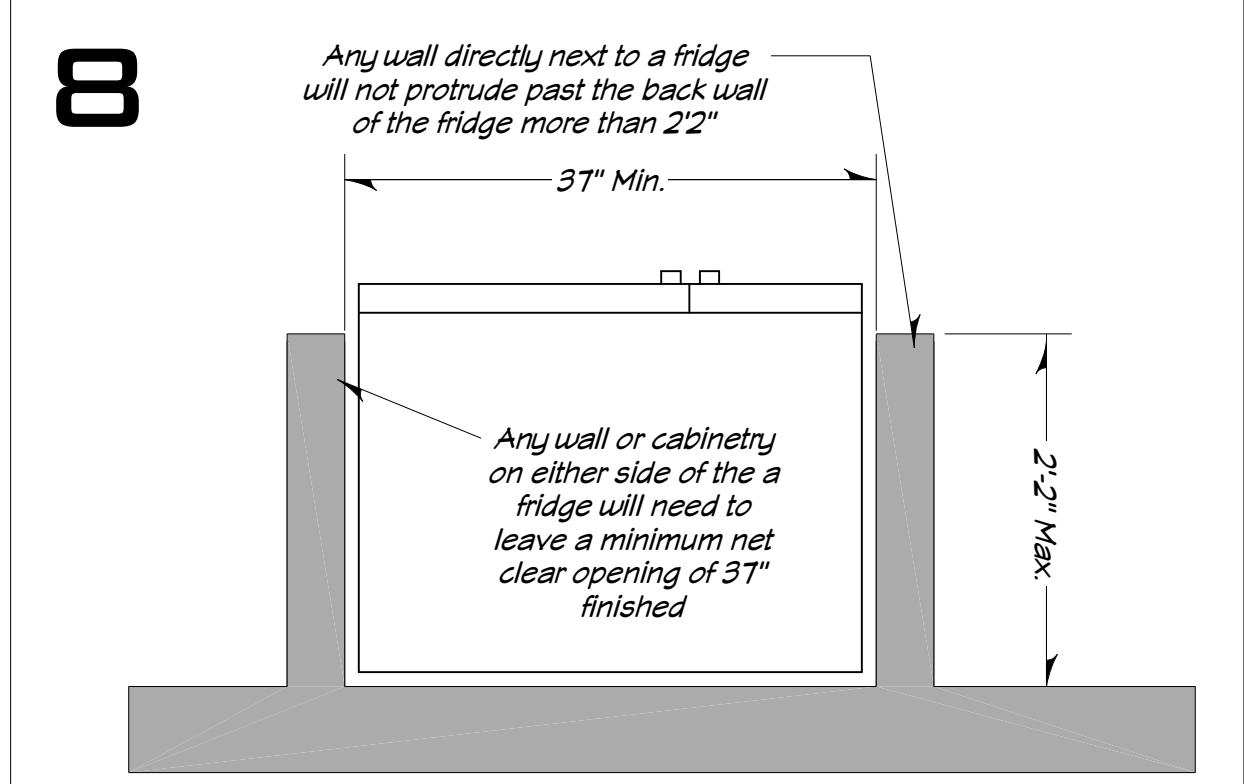


CALIFORNIA CORNER WALL FRAMING DETAIL

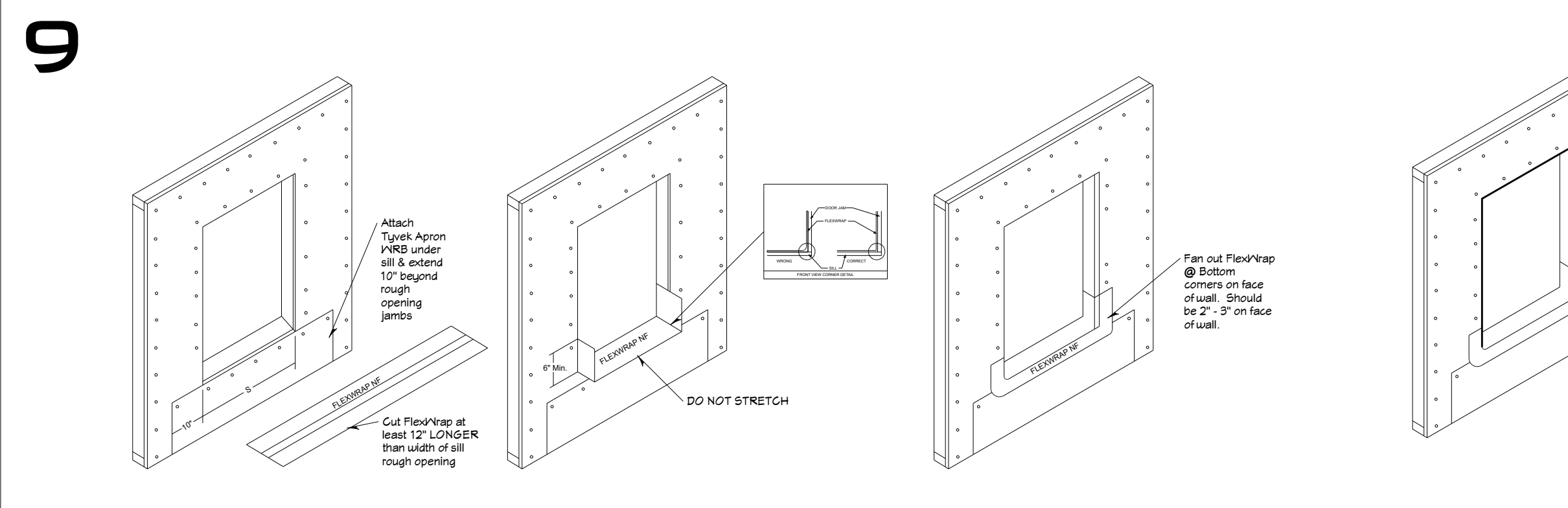


ROOF OVERHANG SOFFIT STANDARDS

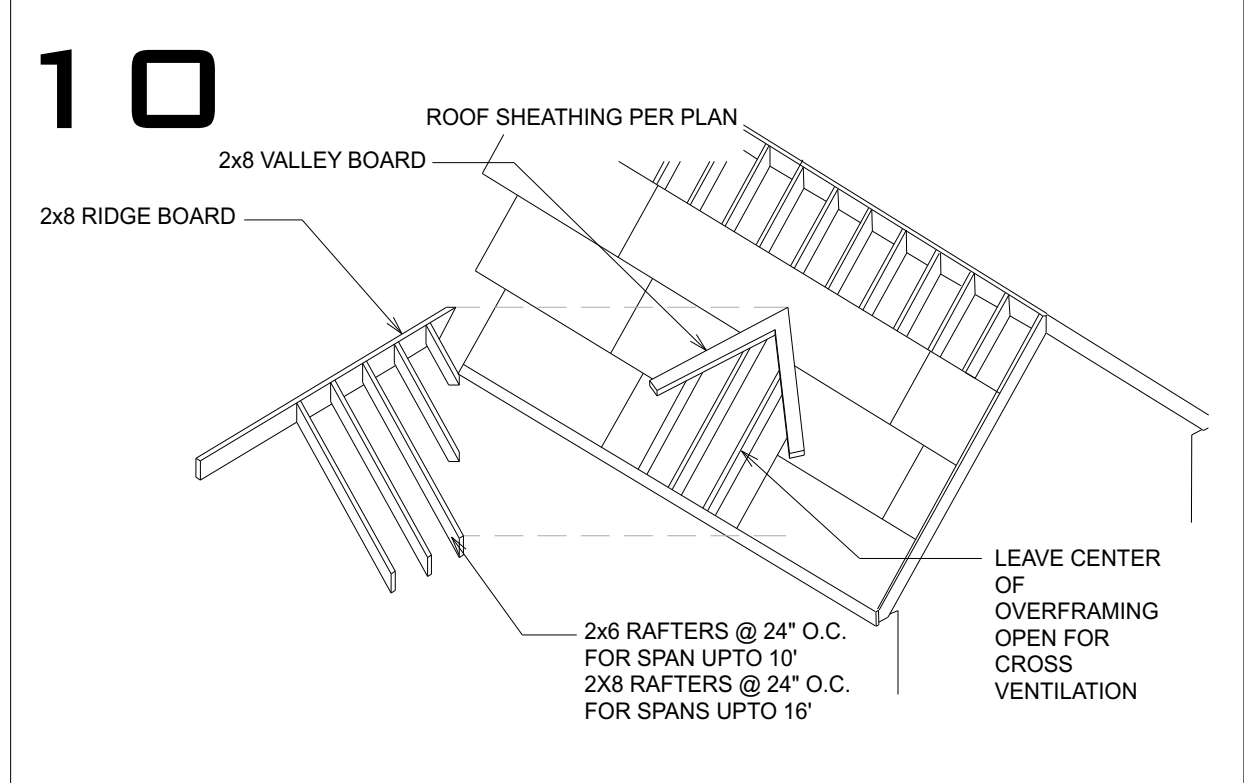
DETAILS



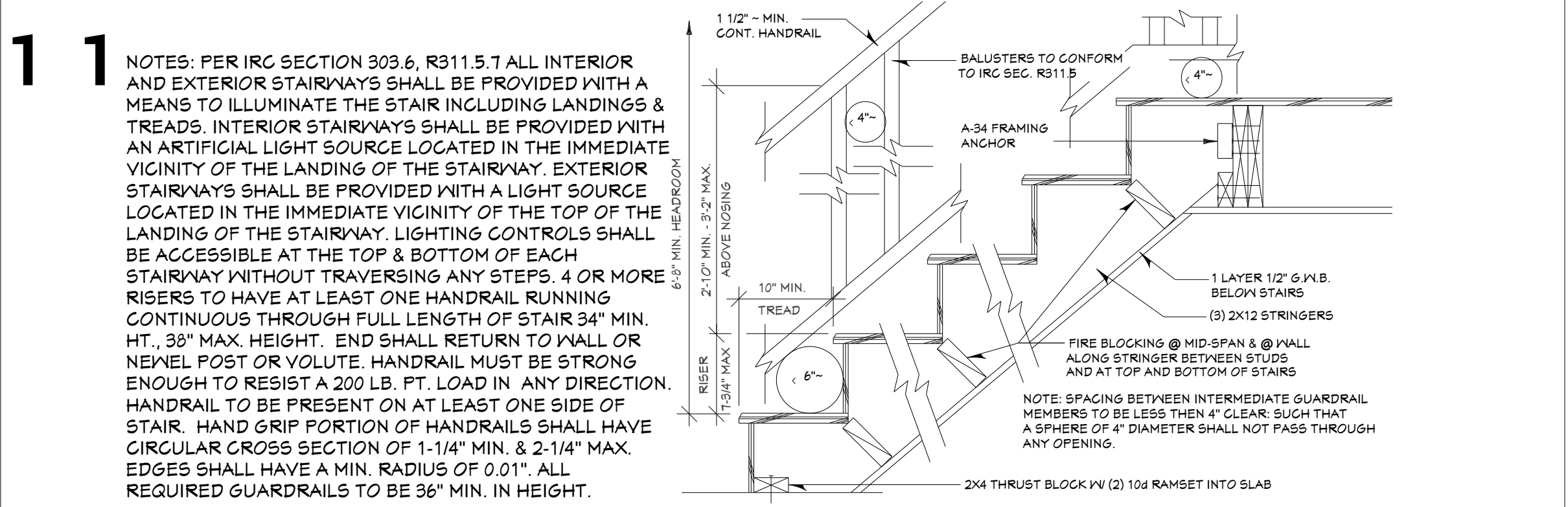
FRIDGE FRAMING DETAIL



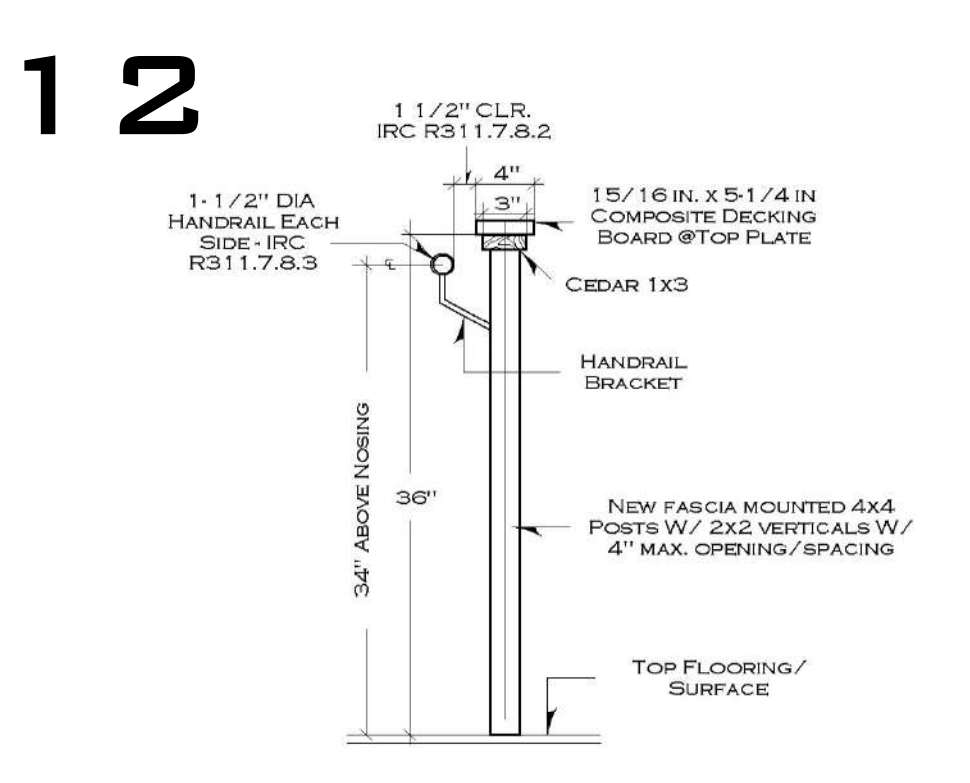
TYVEK FLASHING STEP 1, 2 & 3



ROOF OVER FRAME DETAIL



STAIRCASE DETAIL



BOLLARD PROTECTION

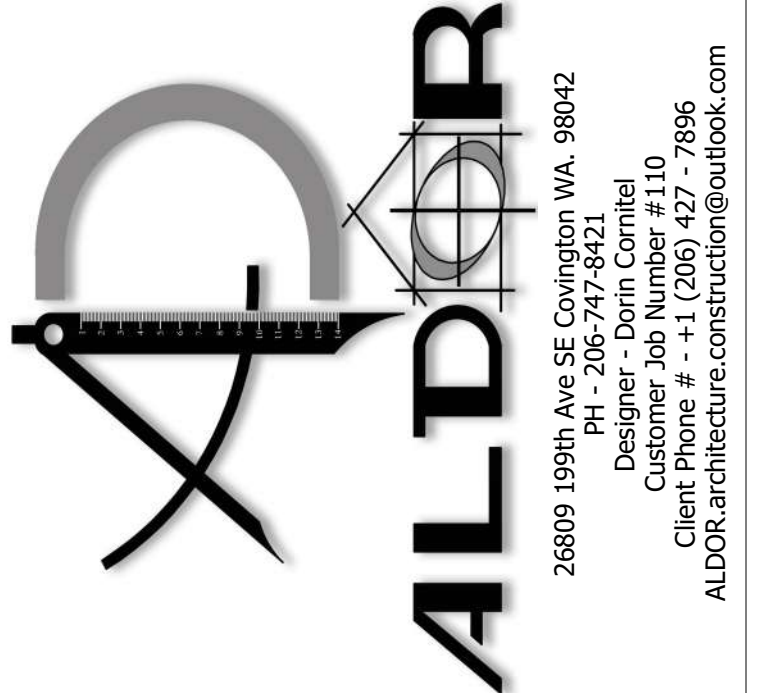
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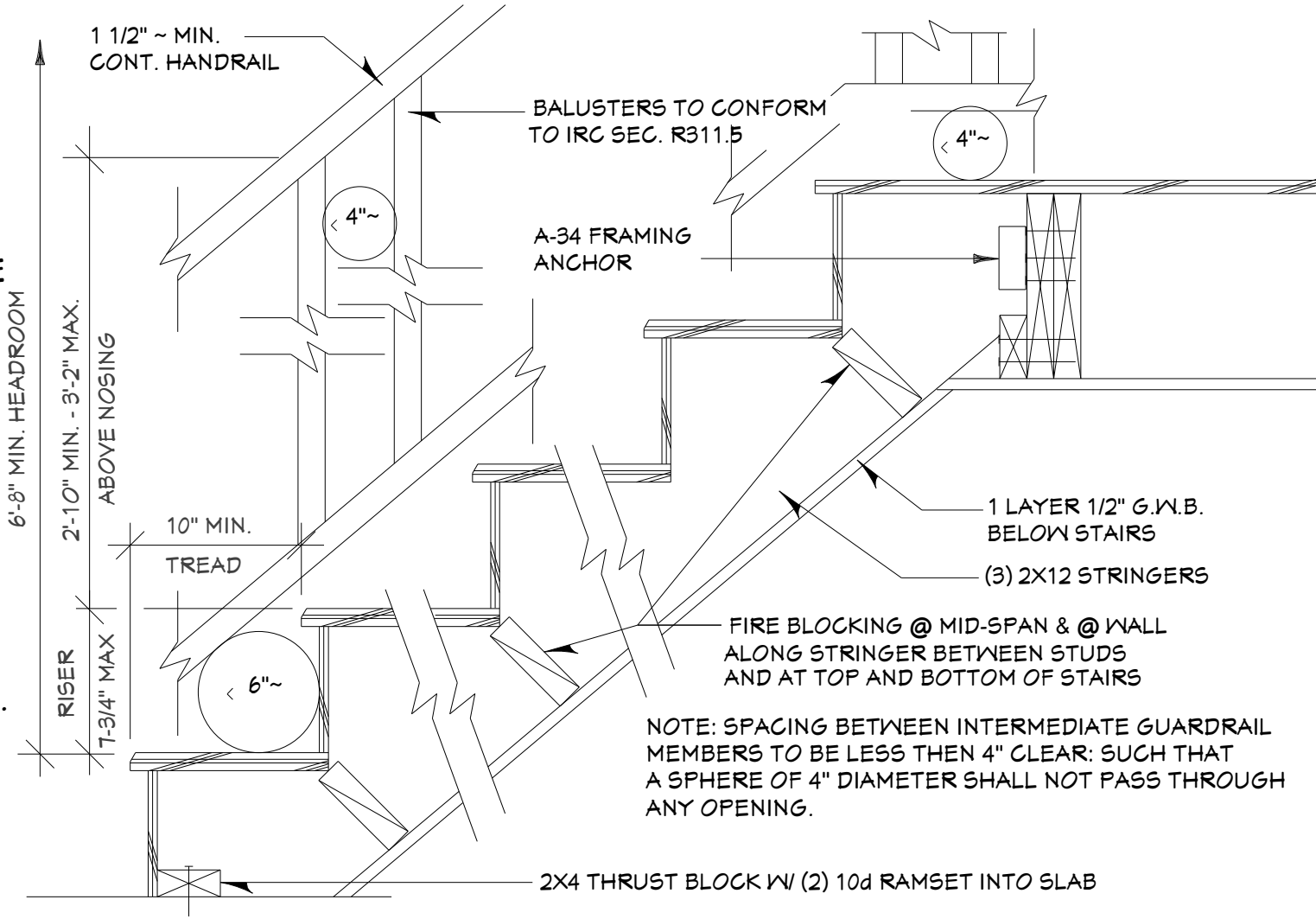
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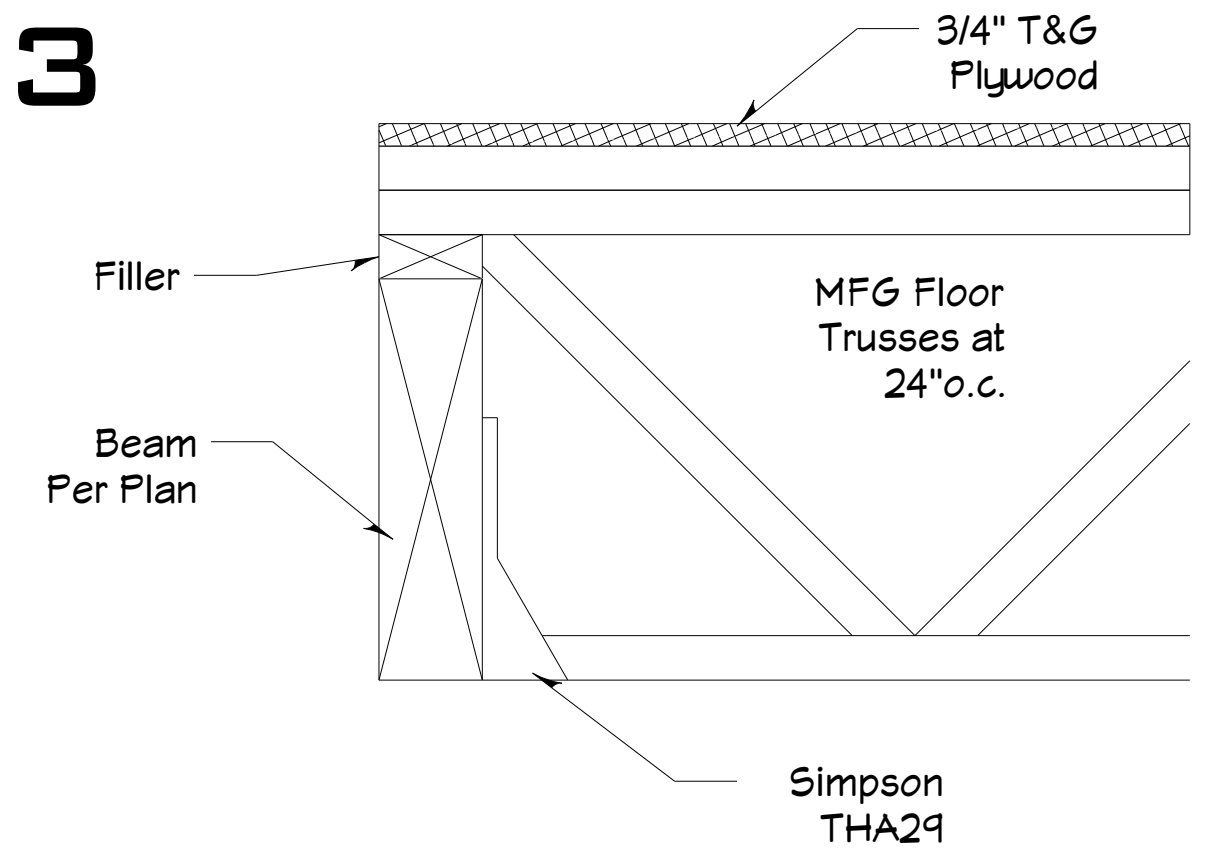
1

NOTES: PER IRC SECTION 303.6, R311.5.7 ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS TO ILLUMINATE THE STAIR INCLUDING LANDINGS & TREADS. INTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE LANDING OF THE STAIRWAY. EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP OF THE LANDING OF THE STAIRWAY. LIGHTING CONTROLS SHALL BE ACCESSIBLE AT THE TOP & BOTTOM OF EACH STAIRWAY WITHOUT TRAVERSING ANY STEPS. 4 OR MORE RISERS TO HAVE AT LEAST ONE HANDRAIL RUNNING CONTINUOUS THROUGH FULL LENGTH OF STAIR 34" MIN. HT., 38" MAX. HEIGHT. END SHALL RETURN TO WALL OR NEWEL POST OR VOLUTE. HANDRAIL MUST BE STRONG ENOUGH TO RESIST A 200 LB. FT. LOAD IN ANY DIRECTION. HANDRAIL TO BE PRESENT ON AT LEAST ONE SIDE OF STAIR. HAND GRIP PORTION OF HANDRAILS SHALL HAVE CIRCULAR CROSS SECTION OF 1-1/4" MIN. & 2-1/4" MAX. EDGES SHALL HAVE A MIN. RADIUS OF 0.01". ALL REQUIRED GUARDRAILS TO BE 36" MIN. IN HEIGHT.

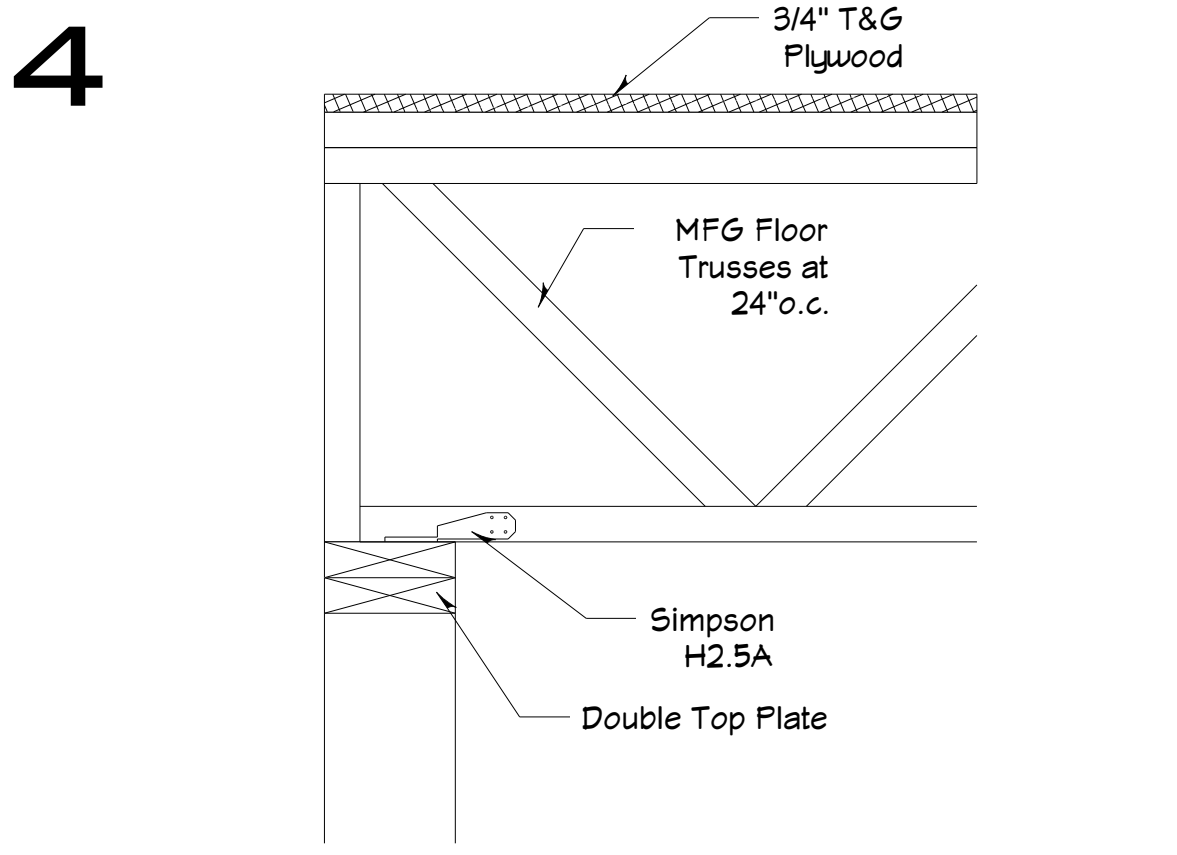


STAIR DETAIL

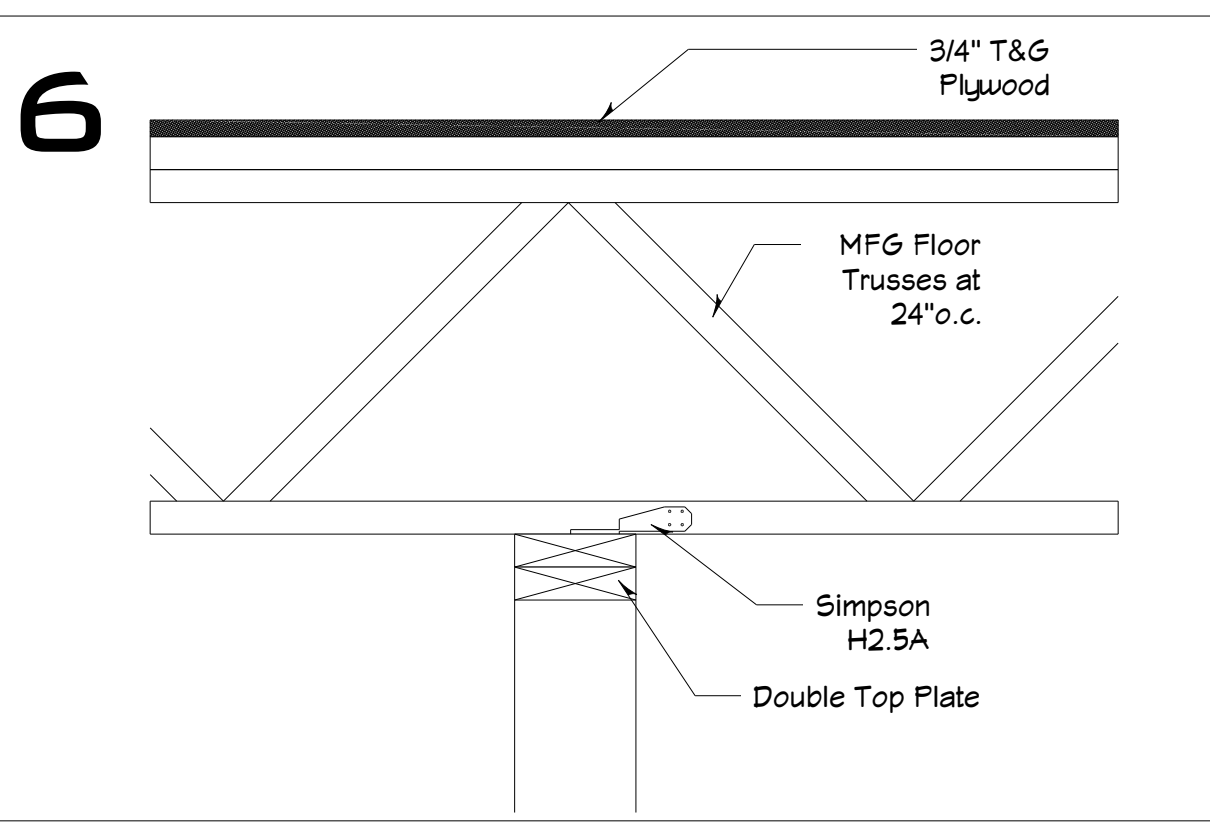
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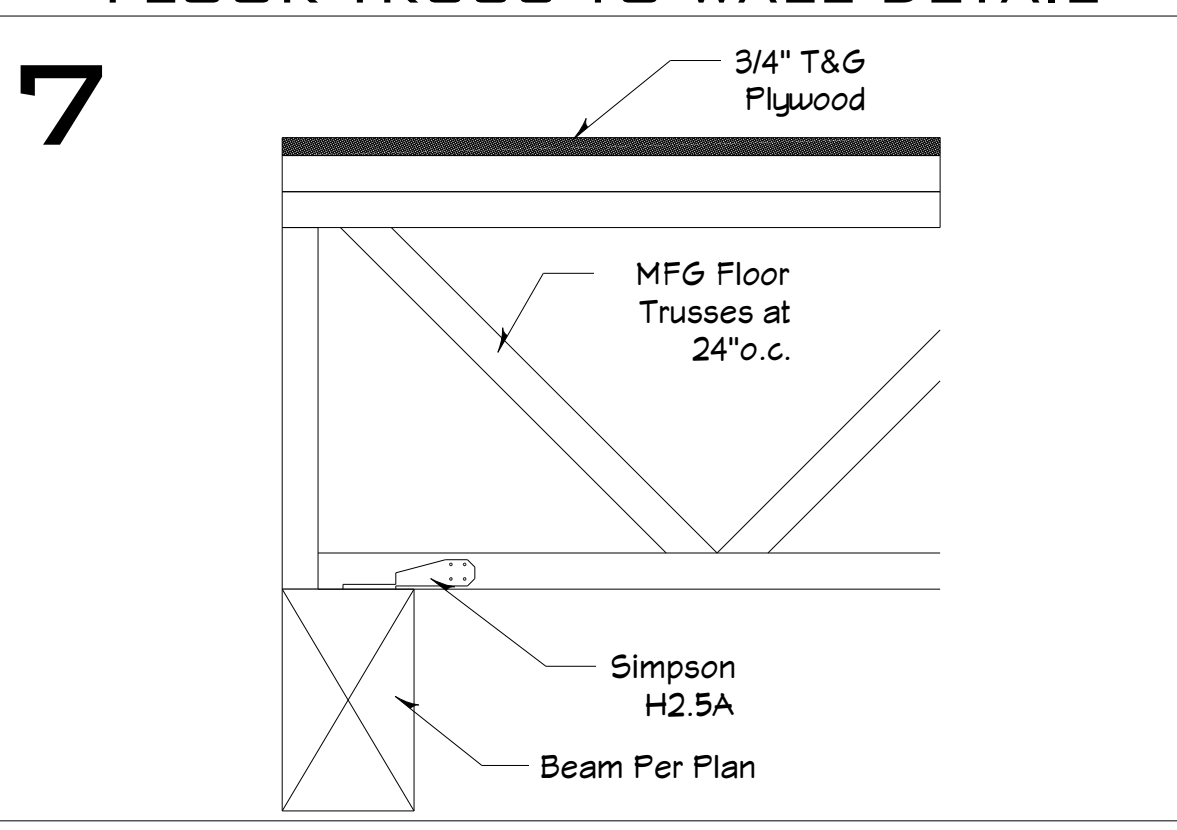
FLOOR TRUSS TO UPSET BEAM DETAIL



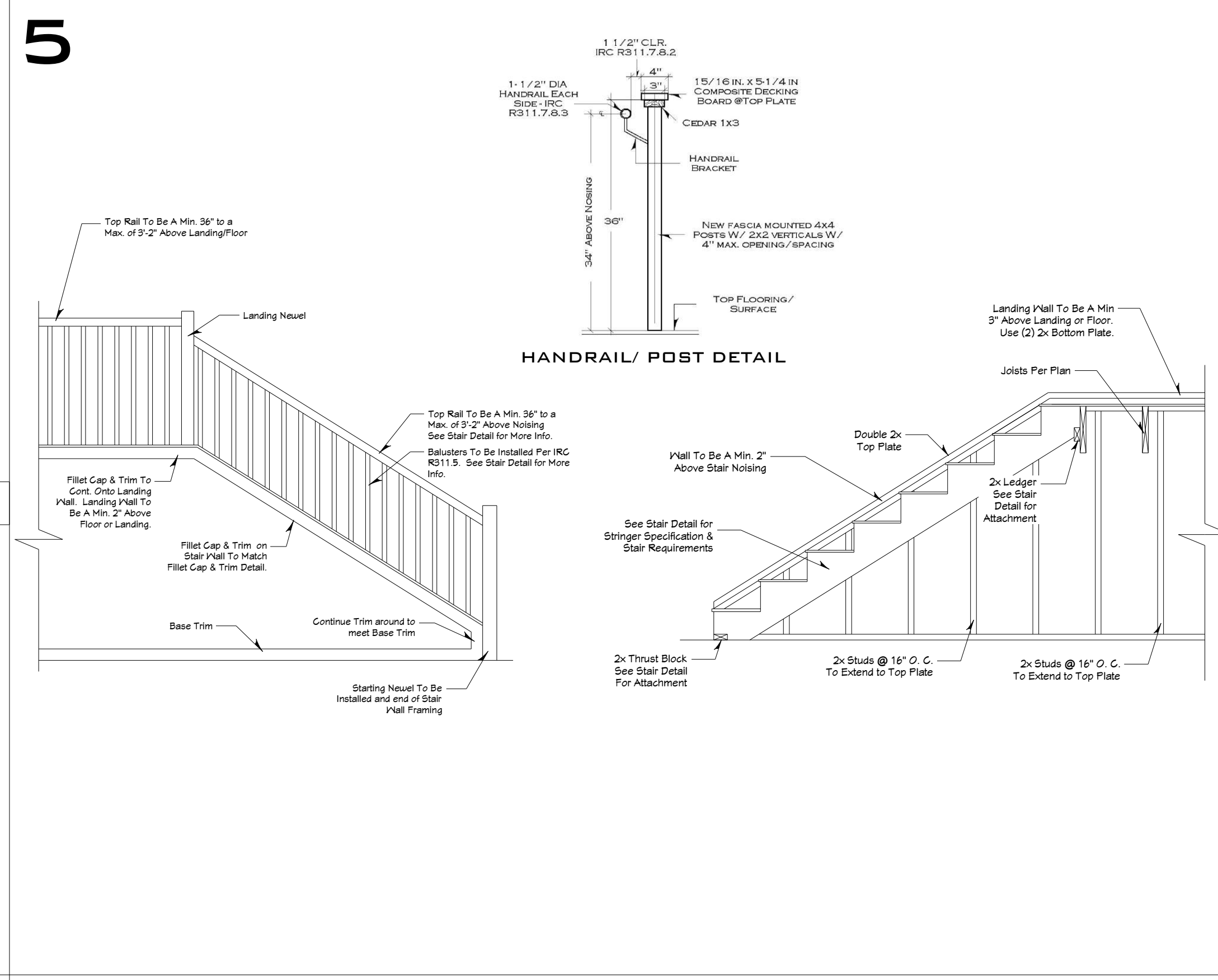
FLOOR TRUSS TO WALL DETAIL



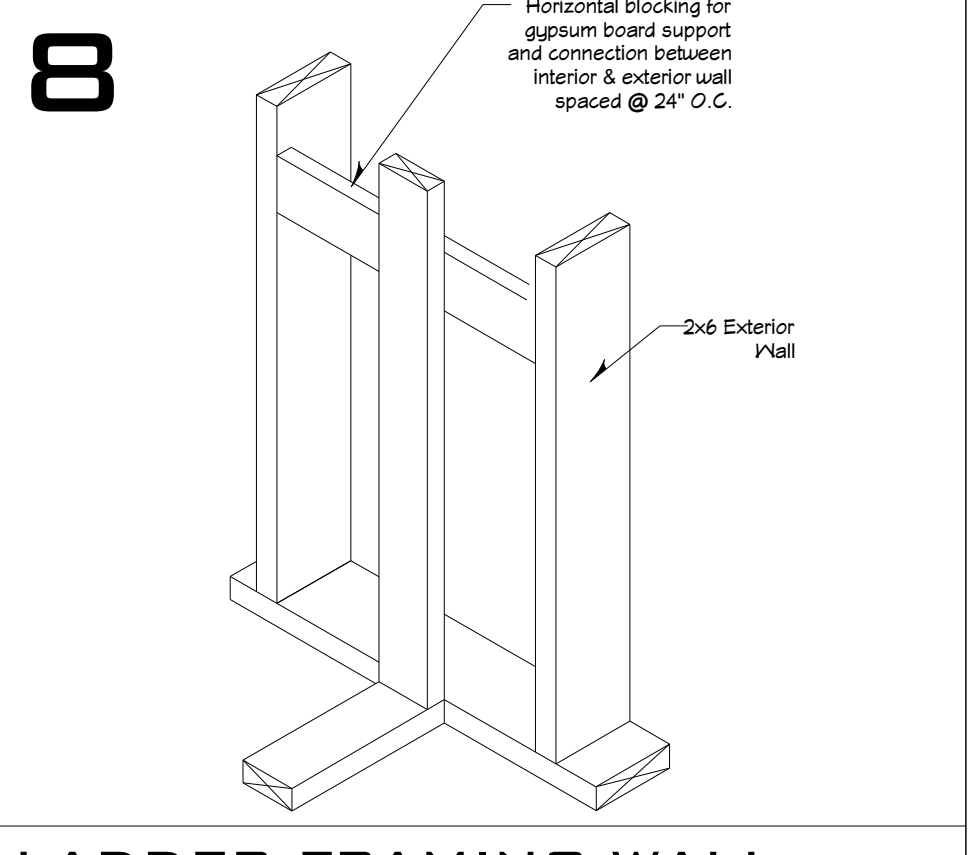
FLOOR TRUSS @ INTERMEDIATE BEARING WALL



FLOOR TRUSS TO DROPPED BEAM DETAIL



STAIR W/RAILING - FRAMING DETAIL



LADDER FRAMING WALL DETAIL

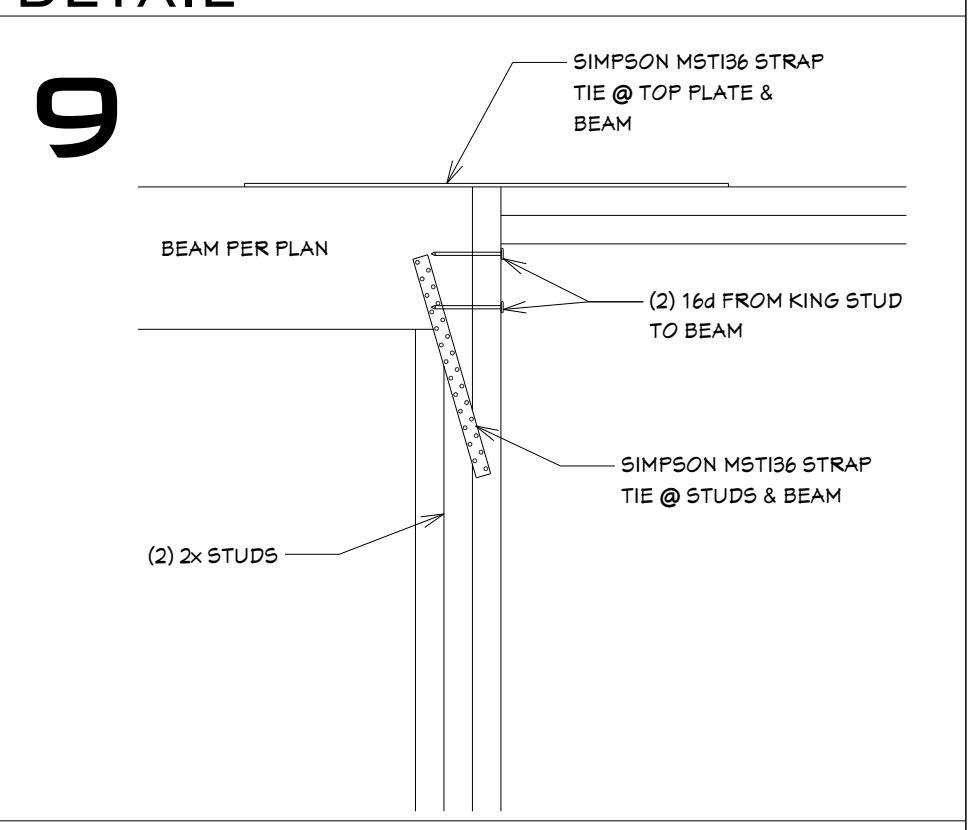


PLATE BREAK @ BEAM DETAIL

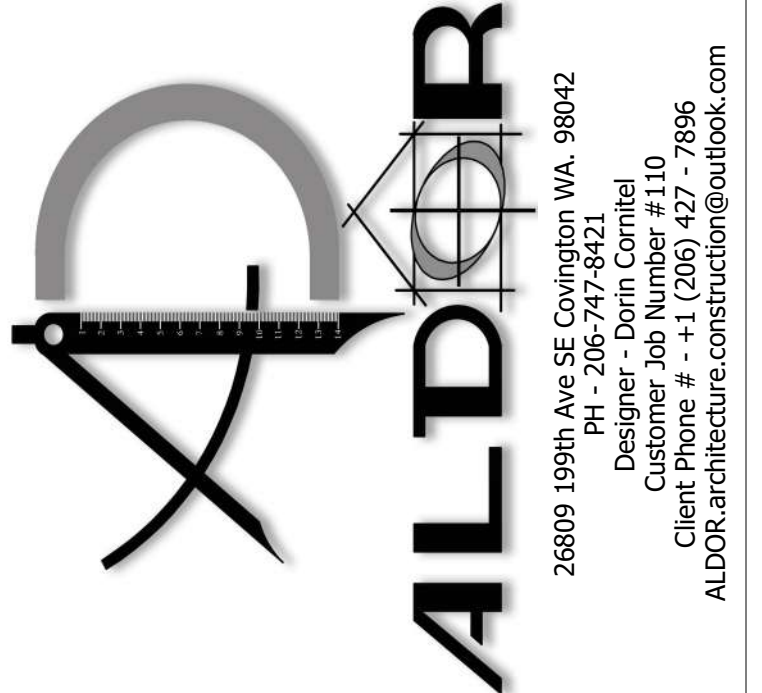
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Foundation Notes - Two Story

See Building Sections and Details Sheet within this set for Details and Callouts for Foundation and Wall to Foundation connectivity.

Two Story Perimeter Foundation that will support a 2x6 Framed Stud Wall shall consist of a 16"x 8" Min. Continuous Concrete Footing Per Engineering.

Garage Foundations that will support a Two Story 2x6 Framed Stud Wall shall consist of a 16"x 8" Min. Continuous Concrete Footing Per Engineering.

Foundation Stem Walls for a Two Story Bearing Walls shall consist of a 22" - 24" Tall x 8" Wide Stem Wall Per Engineering.

Please See Engineering "L" Pages for Holddown Locations. If Foundation needs to be a Stepped Foundation, See "Step Footing" on Engineering Sheet D1.

Foundation Contractor to verify vent placement is done to IRC code. To ensure plumbing access for fixtures, see drain dimensions on foundation. See Floor Joists MFG Layout for Start Location.

Framing Notes

Roof Trusses shall be Pre-Engineered/Pre-Manufactures Wood Trusses spaced at 24" o.c. Flat ceiling trusses over entire area with the exception of Scissor Truss over Specified areas. Note Line of soffit on Floor Plan.

All Trusses shall be installed and braced according to the Manufacturer's instructions. Design calculations shall be kept with the Building Permit and shall be made readily available to the Building Inspector at the time of inspection. All Permit documents shall be kept in a waterproof enclosure for the duration of the project.

Outlooks shall be 2x4 spaced at 48" o.c. @ each Gable End.

Roof Sheathing Nailing shall be at 8d @ 6" o.c. Panel Edges and 12" o.c. @ Intermediates.

Wall Sheathing Nailing shall be at 8d @ 6" o.c. Panel Edges and 12" o.c. @ Intermediates, U.N.O. (See Panel Details for additional information.)

All Exterior Wall Headers shall be a 4x w/ 2 sheets of R-5 Rigid Insulation install on inside of header. In the case that a 6x header is required, insulation of header is not required.

All Exterior Wall Headers shall be a 4x8 DF#2 U.N.O.

All Blocking @ Roof Trusses exposed to the exterior shall be screened "Bird Block".

Roof Venting Requirements

Attic Ventilation shall be in accordance to Section R806. Exception applied due to use of continuous Ridge Vent ("Core-Vent") ventilating upper portion. Exception rate of ventilation per s.f. = 1/300, or 1 s.f. of ventilation per 300 s.f. of Attic Space. Lower portion of roof is vented with bird blocks installed between every truss.

Roofing Notes

Use Composition Asphalt Shingles per Building Package Specification. Maintain a distance of 12" Min. from any Ridge or Valley. Use 2 Layers of Felt on roofs with less than 4/12 roof pitch. Use "Cor-a-Vent" Roof Vent or equal at entire Ridge Area. Use Aluminum Gutters or equivalent.

Truss Notes

Pre-Engineered / Pre-Manufactured Roof Trusses (Pitch Specified on Page 4 - If vaulted truss, inside vault is half pitch size U.N.O.) @ 24" o.c. Use "Bird Blocks" between each Truss @ Plate Line. Place Outlooks over Gable Ends @ 48" o.c.

Garage Notes

Garage walls, columns, and ceilings adjacent to or under dwelling areas shall have materials approved for One-Hour fire resistive construction.

Air ducts passing through one-hour fire resistive construction shall be a minimum of 26-gauge steel.

All electrical switch plates and box covers in the garage shall be metal and lights with boxes behind them shall not be plastic.

All piping passing through one-hour fire resistive construction shall be metal.

Air ducts and or Piping supported by structural members that are required to be fire protected shall be installed after the sheetrock has been applied. Ducts and or Piping may be enclosed within a soffit that has the same degree of fire protection required for the structural members that it attaches to. Framing members for the soffit shall not exceed 16" on center.

Water heater shall have a relief valve drain line to the outside of the building. Per F2803.6.1 (10) of the 2021 IRC, the discharge not terminate more than 6 in above the floor or waste receptor.

General Notes

All construction to conform to the 2021 International Residential Code

CONCRETE: Compressive strength for basement and foundation walls exposed to weather as well as porches, carport slabs and steps shall be a min. 3,000 p.s.i. at 28 days. Concrete shall be air entrained at between 5 & 7%.

REINFORCING STEEL: All steel #4 or smaller shall be A-615, grade 40, unless installed in a reinforced concrete foundation, otherwise grade 60.

SMOKE ALARMS: "Shall be installed in each sleeping room and at a point centrally located in the corridor or area giving access to each separate sleeping area. Required alarms shall received their primary power from the building wiring and shall be equipped with battery backup. Alarms shall be interconnected to provide audibility in all areas."

MFG INSTALLATION: R106.1.2 Manufacturer's installation instructions. Manufacturer's installation instructions, as required by this code, shall be available on the job site at the time of inspection.

FASTENER NOTES: As a minimum, any fastener in contact with pressure treated wood must be Hot Dip galvanized (ASTM A123 for connectors and ASTM 153 for fasteners and anchors).

SANITARY SEWER: To Provide Adequate Drainage the Sewer Connection will exit the home UNDER the Footing. DO NOT EXCAVATE THE SITE TO DEEP!

WHOLE HOUSE VENTILATION: Ventilation shall consist of source specific Intermittently operating fans with a minimum 50 cfm rating in bathrooms and utility and a minimum 100 cfm in the kitchen. Utility room fan to be controlled by a timer. Windows in habitable rooms to include integral fresh air intake vents.

DRYER VENTING: Dryer to be vented to outside. Maximum length not to exceed 25 feet less 5' for each 90 degree bend. Per IRC 1502.

RO Framing on Door Units for 1-3/8" Clearance

Exterior Doors		
Door Type	RO Width	RO Height
Exterior:	Door width + 2"	82"-1/2"
Exterior 1 5/8":	Door width + 5/8" + 4"	82"-1/2"
Exterior 2 5/8":	5/8" + Door width + 5/8" + 5-1/2"	82"-1/2"
Exterior Double:	2 x door width + 3"	82"-1/2"
Interior Doors		
Door Type	RO Width	RO Height
Interior:	Door width + 2"	Height + 2-1/2"
Interior Double	2x door width + 3"	Height + 2-1/2"
Bifolds:	Door callout size + 1-1/4"	82"
Bypass:	2x door width	83"
Fire Door		
Door Type	RO Width	RO Height
Fire Door:	Door width + 2"	83"

Note: Heights are from subfloor to rough header with all jams @ 3/4" Exterior Doors are for fiberglass and metal std height only Closet openings w/ 1/2" drywall on 3 sides

Whole-House Ventilation Using Exhaust Fans M1507.3.4

This section establishes minimum prescriptive requirements for whole-house ventilation systems using exhaust fans. A system which meets all the requirements of this section shall be deemed to satisfy the requirements for a whole-house ventilation system.

M1507.3.4.1 Whole-house ventilation fans. Exhaust fans providing whole-house ventilation shall have a flow rating at 0.25 inches water gauge as specified in Table M1507.3.3(1) (See Sheet 2). Manufacturers' fan flow ratings shall be determined according to HVI 916 or AMCA 210.

M1507.3.4.2 Fan noise. Whole-house fans located 4 feet or less from the interior grille shall have a sone rating of 1.0 or less measured at 0.1 inches water gauge. Manufacturer's noise ratings shall be determined as per HVI 915 (March 2009). Remotely mounted fans shall be acoustically isolated from the structural elements of the building and from attached duct work using insulated flexible duct or other approved material.

M1507.3.4.3 Fan controls. The whole-house ventilation fan shall meet the requirements of Section M1507.3.2 and M1507.3.2.1.

M1507.3.4.4 Outdoor air inlets. Outdoor air shall be distributed to each habitable space by individual outdoor air inlets. Where outdoor air supplies are separated from exhaust points by doors, provisions shall be made to ensure air flow by installation of distribution ducts, undercutting doors, installation of grilles, transoms, or similar means. Doors shall be undercut to a minimum of 1/2 inch above the surface of the finish floor covering.

Individual room outdoor air inlets shall:
 1. Have controllable and secure openings;
 2. Be sleeved or otherwise designed so as not to compromise the thermal properties of the wall or window in which they are placed;
 3. Provide not less than 4 square inches of net free area of opening for each habitable space. Any inlet or combination of inlets which provide 10 cfm at 10 Pascals are deemed equivalent to 4 square inches net free area.

Inlets shall be screened or otherwise protected from entry by leaves or other material. Outdoor air inlets shall be located so as not to take air from the following areas:

1. Closer than 10 feet from an appliance vent outlet, unless such vent outlet is 3 feet above the outdoor air inlet.
2. Where it will pick up objectionable odors, fumes or flammable vapors.
3. A hazardous or unsanitary location.
4. A room or space having any fuel-burning appliances therein.
5. Closer than 10 feet from a vent opening of a plumbing drainage system unless the vent opening is at least 3 feet above the air inlet.
6. Attic, crawl spaces, or garages.

HRV - BROAN - AI Series - HRV Placement

1. Panasonic Whisper Green Whole House Fan Model #FY08VKS3 Shall be set per Table Below

Tabel M1507.3.3(1) Continuous Whole-House Mechanical Ventilation System AirFlow Rate Requirements				
Dwelling Unit Floor Area (Square Feet)	Number of Bedrooms			
	0 - 1	2 - 3	4 - 5	6 - 7
	Airflow in CFM			
< 1500	30	45	60	75
1501 - 3000	45	60	75	90
3001 - 4500	60	75	90	105
4501 - 6000	75	90	105	120
6001 - 7500	90	105	120	135
> 7500	105	120	135	150

Whole House Ventilation Controls & Operation M1507.3.2

M1507.3.2 Control and operation.
 1. Location of controls. Controls for all ventilation systems shall be readily accessible by the occupant.

2. Instructions. Operating instructions for whole-house ventilation systems shall be provided to the occupant by the installer of the system.

3. Local exhaust systems. Local exhaust systems shall be controlled by manual switches, dehumidistats, timers, or other approved means.

4. Continuous whole-house ventilation systems. Continuous whole-house ventilation systems shall operate continuously. Exhaust fans, forced-air system fans, or supply fans shall be equipped with "fan on" as override controls. Controls shall be capable of operating the ventilation system without energizing other energy-consuming appliances. A label shall be affixed to the controls that reads "Whole House Ventilation (see operating instructions)."

5. Intermittent whole-house ventilation systems. Intermittent whole-house ventilation systems shall comply with the following:

- 5.1. They shall be capable of operating intermittently and continuously.
- 5.2. They shall have controls capable of operating the exhaust fans, forced-air system fans, or supply fans without energizing other energy-consuming appliances.
- 5.3. The ventilation rate shall be adjusted according to the exception in Section 403.8.5.1.
- 5.4. The system shall be designed so that it can operate automatically based on the type of control timer installed.
- 5.5. The intermittent mechanical ventilation system shall operate at least one hour out of every four.
- 5.6. The system shall have a manual control and automatic control, such as a 24-hour clock timer.
- 5.7. At the time of final inspection, the automatic control shall be set to operate the whole-house fan according to the schedule used to calculate the whole-house fan sizing.

Exterior Finish Notes

- All Building Faces - Horizontal "Smart Side" w/ LP Barge - 5/4 x 6 Pre-primed "White Wood"
- Corner Boards - 1" x 4" Pre-Primed "White Wood".
- Window Trim - 1" x 4" Pre-Primed "White Wood".
- Windows - White Vinyl Thermopane, sized per plan.
- Gutters & Downspouts - Continuous Metal.
- Gable Vents - Pre-manufactured 12" x 18" Wood.

- Kitchen Base Cabinets are standard 36" tall and 24" deep.
- Kitchen Wall Cabinets are 42" tall and 12" deep.
- Kitchen Wall Cabinets above appliances are 14" tall and 12" deep.
- Guest Bath Cabinets are standard 30" tall and 21" deep.
- Master Bath Cabinets are standard 36" tall and 21" deep.

- Standard Appliance Openings* Dishwasher - 24"W x 36"H x 24"D
- Washer / Dryer - 30"W x 30"D
- Range - 30"W x 36"H x 30"D
- Fridge - 36"W x 70"H

IMPORTANT - If you have different sized than the standard openings please contact us so we can make a note of it in your file.

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STRUCTURAL NOTES

- DESIGN CRITERIA:
1. BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE
2. VERTICAL LOADS: ROOF FLOOR DECK
LIVE LOAD 25 psf 40 psf 60 psf
SNOW LOAD 25 psf 0 psf 25 psf
DEAD LOAD 20 psf 12 psf 15 psf
3. LATERAL LOAD FORCES TRANSMITTED BY DIAPHRAGM ACTION TO WOOD SHEARWALLS AND THENCE TO FOUNDATION WHERE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE AND SLIDING FRICTION OF EARTH.
4. SNOW DESIGN DATA (ASCE 7-16)
FLAT SNOW LOAD, pf: 21 psf
SNOW EXPOSURE FACTORY, Ce: 1.0
SNOW IMPORTANCE FACTOR, is: 1.0
THERMAL FACTOR, ct: 1.1
WIND DESIGN DATA (ASCE 7-16)
WIND SPEED: V=110 mph
RISK CATEGORY: II
EXPOSURE CATEGORY: C
5. SEISMIC DESIGN DATA (ASCE 7-16)
SEISMIC FORCE RESISTING SYSTEM: WOOD SHEARWALLS
RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR, Ie: 1
MAPPED SPECTRAL RESPONSE ACCELERATION: Ss=1.60, S1=0.60
DESIGN SPECTRAL RESPONSE ACCELERATION: Sds=1.28, Sd1=0.68
SITE CLASS: D
SEISMIC DESIGN CATEGORY: D
SEISMIC RESPONSE COEFFICIENT, Cs: 0.197
RESPONSE MODIFICATION COEFFICIENT, R: 6.5
EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7 12.8.1)
DESIGN BASE SHEAR: 31.5k
SOIL PROPERTIES
BEARING CAPACITIES: 1500 psf
LATERAL CAPACITY: 250 psf/ft

GENERAL

THE STRUCTURAL CONSTRUCTION DOCUMENT REPRESENTS THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTORS MEANS, METHODS, TECHNIQUES, SEQUENCES OF PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST ADDITION AND/OR ADDENDA.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

OPTIONS FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCIES WITH ARCHITECT.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

ALL GRAVITY LOADS RESISTING AND LATERAL LOAD RESISTING STRUCTURAL MEMBERS ARE SHOWN ON THE ENGINEERING S PAGES. THE ENGINEERING CALCULATIONS ARE NOT REQUIRED TO BE REFERENCED FOR CONSTRUCTION, AND DON'T NEED TO BE ON SITE.

CONTRACTOR SHALL VERIFY ALL NOTES, DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS HAVE BEEN INSTALLED. ENGINEER AND DESIGNER SHALL BE NOTIFIED BY THE CONTRACTOR OF ANY DISCREPANCIES AT THE TIME THEY ARE NOTED.

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITY LINES. CALL 1-800-424-5555 48 HOURS BEFORE DIGGING.

INFORM ENGINEER OF ALL CHANGES PROPOSED ON THE DRAWINGS OR SPECIFICATIONS BY THE ARCHITECT-NOTES PRIOR TO CONSTRUCTION OF THE CHANGE.

CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHOD, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY OF THE WORKERS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND FOR COORDINATING ALL PORTIONS OF THE WORK.

DRAWINGS SHALL BE USED FOR ONLY ONE CONSTRUCTION AND FOR LOCATIONS INDICATED HEREIN.

PLYWOOD WEB JOISTS

DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH THE LATEST EDITION I.C.C. REPORT ESR-1305. CONNECTIONS AND BEARING MATERIAL TO BE SHOP CONNECTED TO JOISTS AND DESIGNED AND FURNISHED BY JOIST FABRICATOR.

MANUFACTURED I-JOISTS SHALL CONFORM TO ASTM505.

CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. DEFLECTION SHALL BE LIMITED AS FOLLOWS:

FLOOR LIVE LOAD MAXIMUM = L/480. FLOOR TOTAL LOAD MAXIMUM = L/240.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE.

ADDITIONAL JOISTS SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

FOUNDATIONS

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL OR APPROVED FILL 12" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE EXTENDING UP TO 5 FEET FROM WALL FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 1500 PSF.

WHERE REQUIRED BY THE BUILDING OFFICIAL, THE CLASSIFICATION AND INVESTIGATION OF THE SOIL SHALL BE PERFORMED BY A REGISTERED DESIGN PROFESSIONAL (1806.2) UNLESS A SOIL INVESTIGATION IS PROVIDED. FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 1500 PSF. ORGANIC SILT, ORGANIC CLAYS, PEAT OR UNPREPARED FILL SHALL NOT BE ASSUMED TO HAVE BEARING CAPACITY (1806.2)

THIS ENGINEERING IS BASED ON SITE CLASS D SOILS IN ACCORDANCE WITH TABLE 1806.2 OF THE 2021 IBC.

SITE GRADING: THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 5 PERCENT FOR A MINIMUM OF 10 FEET.

COMPACTED FILL MATERIAL SHALL NOT BE USED UNLESS ALLOWED BY A SOILS ENGINEERING REPORT.

CONCRETE

MINIMUM 28 DAY STRENGTH 2,500 PSI (fc = 2,500 PSI) U.N.O.

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO A.C.I. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT SLABS ON GRADE NEED ONLY BE VIBRATED AT TRENCHES, FLOOR DUCTS, TURNDOWNS, ETC. MINIMUM SLUMP 4" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (KEYED OR SAW CUT), AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 225 SQUARE FEET. KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS - SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

CONCRETE MINIMUM REINFORCEMENT

THE FOLLOWING MINIMUM REINFORCEMENT SHALL BE PROVIDED U.N.O. ON THE DRAWING:

- 1. PROVIDE HORIZONTAL CORNER BARS AT ALL FOOTINGS AND WALL CORNERS AND HOOK BARS FOR T INTERSECTIONS WITH EQUAL SIZE AND SPACING OF THE HORIZONTAL REINFORCING USING THE INDICATED DETAILS OF SIMILAR SECTIONS AND DETAILS AS TYPICAL.
2. PROVIDE ONE #4 VERTICAL BAR - FULL HEIGHT OF WALL AT THE CORNER OR T INTERSECTION.
3. PROVIDE A MINIMUM OF 0.2% REINFORCEMENT OF GROSS CONCRETE AREA OF WALL IN HORIZONTAL DIRECTION AND 0.12% IN VERTICAL DIRECTION. MAXIMUM REBAR SPACING IS 18" O.C. IN EACH DIRECTION.
4. PROVIDE A MINIMUM #4 BARS AT 12" ON CENTER IN ISOLATED FOOTINGS.
5. PROVIDE REINFORCING CHAIRS IN ACCORDANCE WITH CRSI PLACING MANUAL.
6. PROVIDE WWF 6X6X10X10 FOR 4" SLAB.
7. PROVIDE CONSTRUCTION JOINT AT 20' MAXIMUM UNLESS NOTED OTHERWISE (SAW CUT 25% OF SLAB THICKNESS).

NAILS:

USE COMMON NAIL ONLY. IF BOX OR OTHER TYPE OF NAILS ARE USED, SIZE ADJUSTMENTS ARE REQUIRED. PROVIDE NAIL PER IBC TABLE 2304.10.1 GALVANIZE NAIL WHEN EXPOSED TO WEATHER. SIMPSON ZMAX AND HOT DIPPED ZINC NAILS SHALL BE USED FOR ALL PRESSURE TREATED WOODS OTHER THAN CHROMATED COPPER ARSENATE AND SODIUM BORATE.

PREFABRICATED WOOD TRUSSES

PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT SELF WEIGHT PLUS LIVE LOAD AND SUPERIMPOSED DEAD LOADS STATED IN THE GENERAL STRUCTURE NOTES OR AS LOCATED ON PLANS. BRIDGING SIZE AND SPACING SHALL BE BY TRUSS MANUFACTURER/TRUSS DESIGNER UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT A TRUSS SUBMITTAL PACKAGE AS DEFINED IN IBC SECTION 2303.4.1.4, INCLUDING, BUT NOT LIMITED TO, INDIVIDUAL TRUSS DESIGN DRAWINGS, TRUSS PLACEMENT DIAGRAM AND TRUSS MEMBER PERMANENT BRACING REQUIREMENTS. TRUSS DOCUMENTS SHALL BE SEALED BY A REGISTERED DESIGN PROFESSIONAL AS REQUIRED BY IBC SECTION 2303.4.1.3. CALCULATIONS AND SHOT DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONTRACTORS SHALL HAVE CURRENT I.C.C. APPROVAL.

CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. DEFLECTION SHALL BE LIMITED AS FOLLOWS: ROOF TOTAL LOAD MAXIMUM=L/240. ROOF LIVE LOAD MAXIMUM=L/360.

TRUSS TOP CHORD MATERIAL SHALL HAVE A SPECIFIC GRAVITY OF NOT LESS THAN 0.43.

MULTIPLE TRUSS MEMBERS SHALL BE FASTENED TOGETHER TO ALLOW TRANSFER OF SHEAR AND TENSION FORCES (MINIMUM 200 PLF) AT PLYWOOD SHEATHING JOINTS AND TO PREVENT CROSS GRAIN BENDING OF TOP CHORDS. ATTACHMENT SHALL BE A CONTINUOUS 20 GAGE METAL PLATE OR OTHER APPROVED MEANS. METHOD OF ATTACHMENT SHALL BE INDICATED ON SHOP DRAWINGS FOR REVIEW.

TRUSS MANUFACTURER SHALL HAVE I.C.C. APPROVAL OR BE AN APPROVED FABRICATOR ACCORDING TO THE BUILDING JURISDICTION. TRUSS MANUFACTURER SHALL PERMANENTLY IDENTIFY EACH TRUSS.

GLUE-LAMINATED BEAMS (GLULAM)

GLUED - LAMINATED BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb= 2400PSI, Fv= 265PSI, Fc (PERPENDICULAR)= 650 PSI, E= 1,800,000 PSI. CONTINUOUS BEAMS OR BEAMS CANTILEVERING OVER SUPPORTS SHALL HAVE THE SPECIFIED MINIMUM PROPERTIES TOP AND BOTTOM. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAM TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS. STRUCTURAL GLUED-LAMINATED TIMBER SHALL CONFORM TO AITC A190.1 AND ASTM D 3737.

WOOD:

LUMBER SHALL CONFORM TO DOC PS 20. MANUFACTURED LUMBER SHALL BE AS SPECIFIED ON THE PLAN SET. DESIGN OF THE MANUFACTURED LUMBER IS THE RESPONSIBILITY OF THE SUPPLIER.

Table with columns: JOISTS, BEAMS, LEDGERS AND TOP PLATES, STUDS, POSTS. Rows include 2X4, 2X6 OR LARGER, 4X4, 4X6 OR LARGER, 6X6 OR LARGER with corresponding H.F. #2 and D.F. #2 specifications.

CONNECTORS:

METAL CONNECTORS, ANCHORS, AND FASTENERS WILL CORRODE AND LOSE LOAD CARRYING CAPACITY WHEN INSTALLED IN CORROSIVE ENVIRONMENTS OR EXPOSED TO CORROSIVE MATERIALS. THERE ARE MANY ENVIRONMENTS AND MATERIALS WHICH MAY CAUSE CORROSION INCLUDING: OCEAN SALT WATER, PRESERVATIVE-TREATED WOOD, FUMES, FIRE-RETARDANTS, DISSIMILAR METALS, FERTILIZERS.

PLYWOOD

ALL PLYWOOD SHALL BE AMERICAN PLYWOOD ASSOCIATION CDX-RATED SHEATHING OR BETTER, AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS (ON ROOFS WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE MINIMUM OF 5-PLY PLYWOOD). STAGGER JOINTS. ALL NAILING SHALL BE WITH COMMON NAILS. WHERE SCREWS ARE INDICATED FOR WOOD-TO-WOOD ATTACHMENTS, USE WOOD SCREWS MEETING THE REQUIREMENTS OF A.S.I./A.S.M.E. B18-1 OF GRADE ASTM A384, GRADE 1013 TO 1022 STEEL (FY=193,600PSI). HORIZONTAL DIAPHRAGM AND SHEARWALL CAPACITIES SHALL BE PER THE LATEST EDITION OF I.C.C. REPOST ESR-1539. ALL PLYWOOD SHALL BE OF THE FOLLOWING NORMAL THICKNESS, SHALL HAVE THE FOLLOWING SPAN/INDEX RATIO, AND SHALL BE ATTACHED AS FOLLOWS, UNLESS OTHERWISE NOTED.

Table with columns: USE, THICKNESS, SPAN/INDEX RATIO, EDGE ATTACHMENT, INTERMEDIATE ATTACHMENT. Rows include ROOF, FLOOR, SHEAR WALL with specific nail and screw requirements.

SCREWS AT FLOOR SHEATHING SHALL BE #8 x 2" LONG FOR SHEATHING LESS THAN 1" NORMAL THICKNESS, AND SHALL HAVE CURRENT I.C.C. APPROVAL AS A REPLACEMENT FOR 10d NAILS IN WOOD PANEL DIAPHRAGMS. SCREWS PER I.C.C. ER-5280 OR APPROVAL EQUAL. ALL FLOOR SHEATHING SHALL BE GLUED TO SUPPORT MEMBERS WITH AN A.P.A. AFG-01 OR ASTM D3498 QUALIFIED GLUE IN ACCORDANCE WITH A.P.A. FORM E30.

ALTERNATE SHEATHING

AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFING CONTRACTOR. RATED SHEATHING SHALL COMPLY WITH I.C.C. ESR-1301, EXPOSURE 1, AND SHALL HAVE A SPAN RATING AND SHEAR VALUE EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/2") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PLYWOOD PER MANUFACTURES RECOMMENDATIONS.

PROTECTION AGAINST DECAY (2304.11):

PRESERVATIVE-TREATED WOOD SHALL CONFORM TO APPLICABLE AWPA STANDARDS. TRUSSES, TRUSS DRAWINGS AND TRUSS ENGINEERING SHALL BE PROVIDED BY THE MANUFACTURER. WOOD JOISTS OR THE BOTTOM OF A WOOD STRUCTURAL FLOOR WITHOUT JOISTS SHALL NOT BE CLOSER THAN 18 INCHES, OR WOOD GIRDERS CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAWL SPACES. WOOD FRAMING MEMBERS, INCLUDING WOOD SHEATHING, WHICH REST ON EXTERIOR FOUNDATION WALLS SHALL NOT BE LESS THAN 8 INCHES FROM EXPOSED EARTH. SILLS IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE-TREATED WOOD CLEARANCE BETWEEN WOOD SIDING AND EARTH SHALL NOT BE LESS THAN 6 INCHES. POSTS SHALL BE PRESERVATIVE-TREATED UNLESS SUPPORTED BY A PEDESTAL GREATER THAN 8 INCHES FROM EXPOSED GROUND. AS A MINIMUM CONTRACTORS SHALL USE SIMPSON ZMAX GALVANIZED FASTENERS OR AN APPROVED BARRIER WHEN A CORROSIVE ENVIRONMENT EXISTS.

SHOP DRAWINGS

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS ARE NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.

VERIFY ALL DIMENSIONS WITH ARCHITECT

ANY CHANGES, SUBSTITUTIONS, OR DRAWINGS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE ITEMS ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVIEW BY THE E.O.R. IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

ABBREVIATIONS

- A.B.CAGGREGATE BASE COURSE
A.F.FABOVE FINISHED FLOOR
ALTALTERNATE
A.BANCHOR BOLT
BMBEAM
B.F.FBELOW FINISHED FLOOR
B.O.BBOTTOM OF BEAM
B.O.DBOTTOM OF DECK
B.O.FBOTTOM OF FOOTING
B.O.PBOTTOM OF PLATE
B.O.SBOTTOM OF STEEL
B.R.GBEARING
C.I.PCAST-IN-PLACE
C.LCENTERLINE
C.L.BCENTERLINE OF BEAM
C.L.CCENTERLINE OF COLUMN
C.L.FCENTERLINE OF FOOTING
C.L.WCENTER LINE OF WALL
CLRCLEAR
CONCCONCRETE
CONC. C.JCONCRETE CONTROL JOINT
CONC. S.JCONCRETE SAWCUT JOINT
C.M.UCONCRETE MASONRY UNIT
CONNCONNECTION
CONTCONTINUOUS
D.LDEAD LOAD
DIADIAMETER
DNDOWN
DWG(S)DRAWING(S)
E.O.SEDGE OF SLAB
ELELEVATION
EQEQUAL
EQUIPEQUIPMENT
EXPEXPANSION BOLT
EXP. JT. (E.J.)EXPANSION JOINT
E.WEACH WAY
F.FFINISHED FLOOR
F.O.MFACE OF MEMBER
F.O.SFACE OF STEEL
F.O.WFACE OF WALL
GAGAUGE
GALVGALVANIZED
GLB (GLULAM)GLUE-LAMINATED BEAM
H.CHORIZONTAL
HORIZHORIZONTAL
I.F.WINSIDE FACE OF WALL
I.EINVERT ELEVATION
K (KIP)1000 POUNDS
L.LLIVE LOAD
LBS (#)POUNDS
L.L.HLONG LEG HORIZONTAL
L.L.VLONG LEG VERTICAL
MFR(S)MANUFACTURE(S)
MAS. C.JMASONRY CONTROL JOINT
MECH'LMECHANICAL
N/ANOT APPLICABLE
N.T.SNOT TO SCALE
O.CON CENTER
O.FOUTSIDE FACE OF WALL
OPPOPPOSITE
P.CPRE CAST CONCRETE
P.L.FPOUNDS PER LINEAR FOOT
PREFABPREFABRICATED
P.S.FPOUNDS PER SQUARE FOOT
P.S.IPOUNDS PER SQUARE INCH
REIN.FREINFORCING
S.L.HSHORT LEG HORIZONTAL
S.L.VSHORT LEG VERTICAL
SIMSIMILAR
SQSQUARE
STDSTANDARD
T.LTOTAL LENGTH
T.O.BTOP OF BEAM
T.O.DTOP OF DECK
T.O.FTOP OF FOOTING
T.O.GTOP OF GRADE
T.O.LTOP OF LEDGER
T.O.MTOP OF MASONRY
T.O.PTOP OF PLATE
T.O.STOP OF STEEL
T.O.WTOP OF WALL
TYPTYPICAL
U.N.OUNLESS NOTED OTHERWISE
VERTVERTICAL
WTSPWATERSTOP
W.W.RWELDED WIRE REINFORCEMENT

Table with columns: SPLICE LENGTH, #3, #4, #5, #6, #7, #8. Includes a diagram of a splice.

Table with columns: HOOK LENGTH, HOOK TYPE, #3, #4, #5, #6, #7, #8. Includes diagrams for 90, 135, and 180 degree hooks.

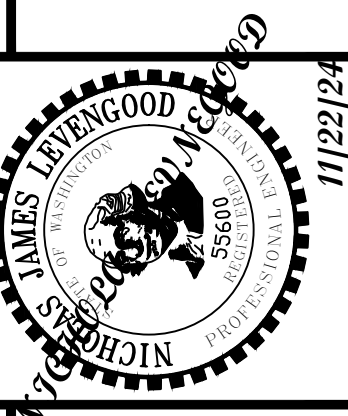
Table with columns: MARK, MINIMUM SHEATHING, EDGE NAILING, FIELD NAILING, SOLE PLATE NAILING, SILL PLATE CONN. & FND. Includes various construction specifications.

- SHEARWALL NOTES:
1. ALL STUDS AND BLOCKING SHALL BE HF#2 ALL TOP AND BOTTOM PLATES SHALL BE HF#2. ALL SHEATHING EDGES SHALL BE BACKED WITH 2x OR WIDER FRAMING UNLESS OTHERWISE NOTED (SEE NOTE#2). SHEATHING MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY.
2. WHERE SHEATHING NAILING IS A Δ OR GREATER, FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER AND SILL PLATES NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER.
3. NAILING CRITERIA IS BASED ON IBC 2306.3 AND AF&PA SPOUS TABLE 4.3A FOR CD PLYWOOD AND HF#2 FRAMING WIRE STAPLES MAY BE SUBSTITUTED AS OUTLINED IN THE STRUCTURAL NOTES. OTHER SUBSTITUTIONS MUST BE VERIFIED IN WRITING BY THE STRL. ENGINEER.
4. HOLD-DOWNS AND OTHER CONNECTIONS MAY BE REQUIRED AT THE ENDS OF MANY SHEARWALLS. SIZES AND LOCATIONS OF THESE CONNECTORS ARE INDICATED ON THE PLANS. REFER TO THE APPROPRIATE CONNECTOR DETAILS FOR ADDITIONAL INFORMATION REGARDING ANCHOR BOLTS, EMBEDMENT LENGTH, ETC.
5. ANCHOR BOLTS MUST BE EMBEDDED INTO CONCRETE OR GROUTED CMU A MINIMUM OF 7", AND SHALL BE PLACED TO PROVIDE A MINIMUM OF 2" GROUTED CLEAR TO THE FACE OF FORMED CONCRETE (PROVIDED 3" CLEAR FOR CONCRETE CAST AGAINST SOIL).
6. EDGE OF ANCHOR BOLT WASHER SHALL BE WITHIN 1/2" OF SHEAR WALL SHEATHING

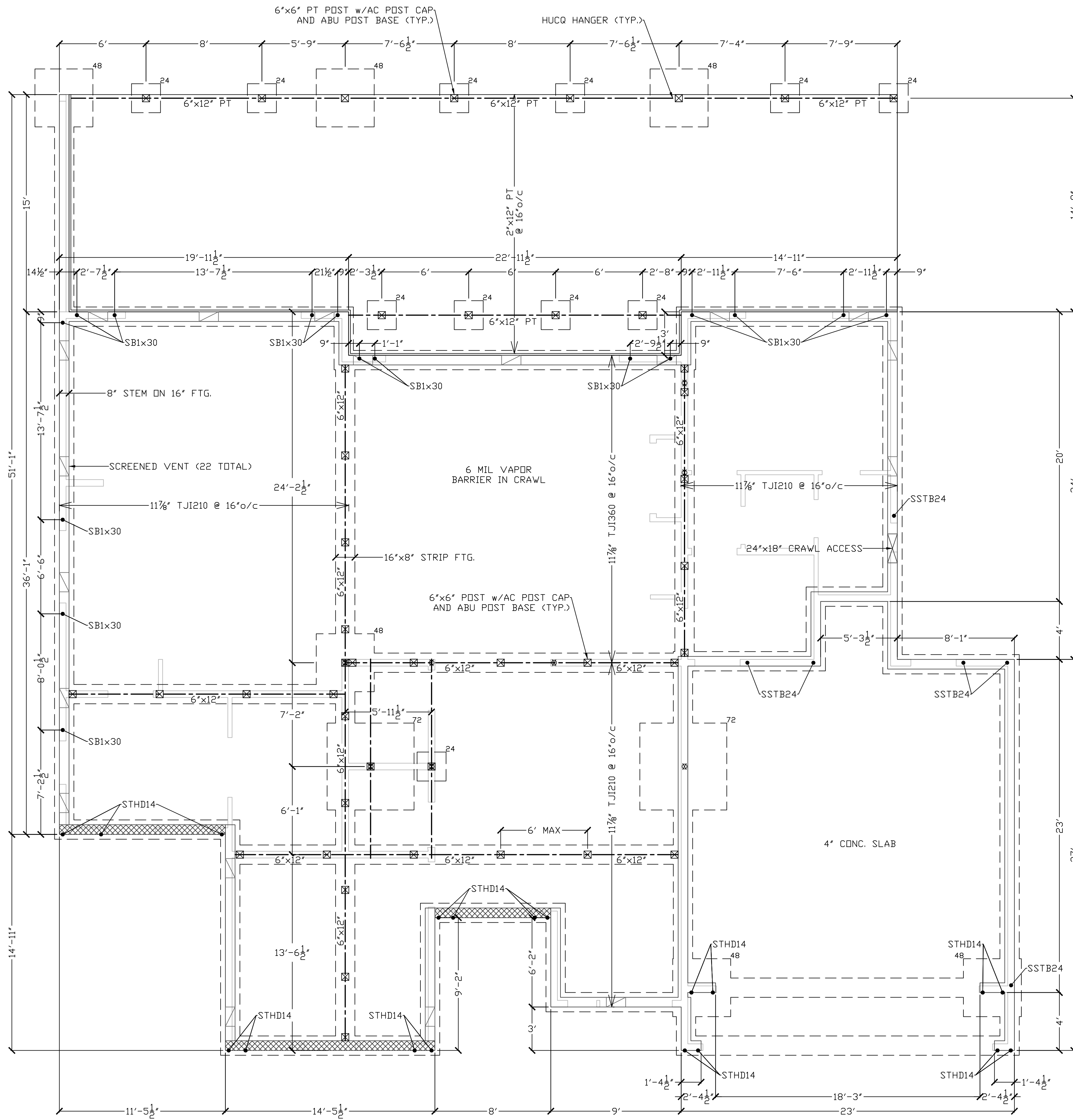
Table with columns: REVISIONS, NO, DATE, BY, DESCRIPTION, CHECKED, APPROVED, ACCEPTED. Includes a sub-table for DATE with columns BY, N1, U24, N1, U24.

FOR: Russell Palanchuk

Structural Notes
9734 SE 40th Street
Mercer Island, WA 98040



N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

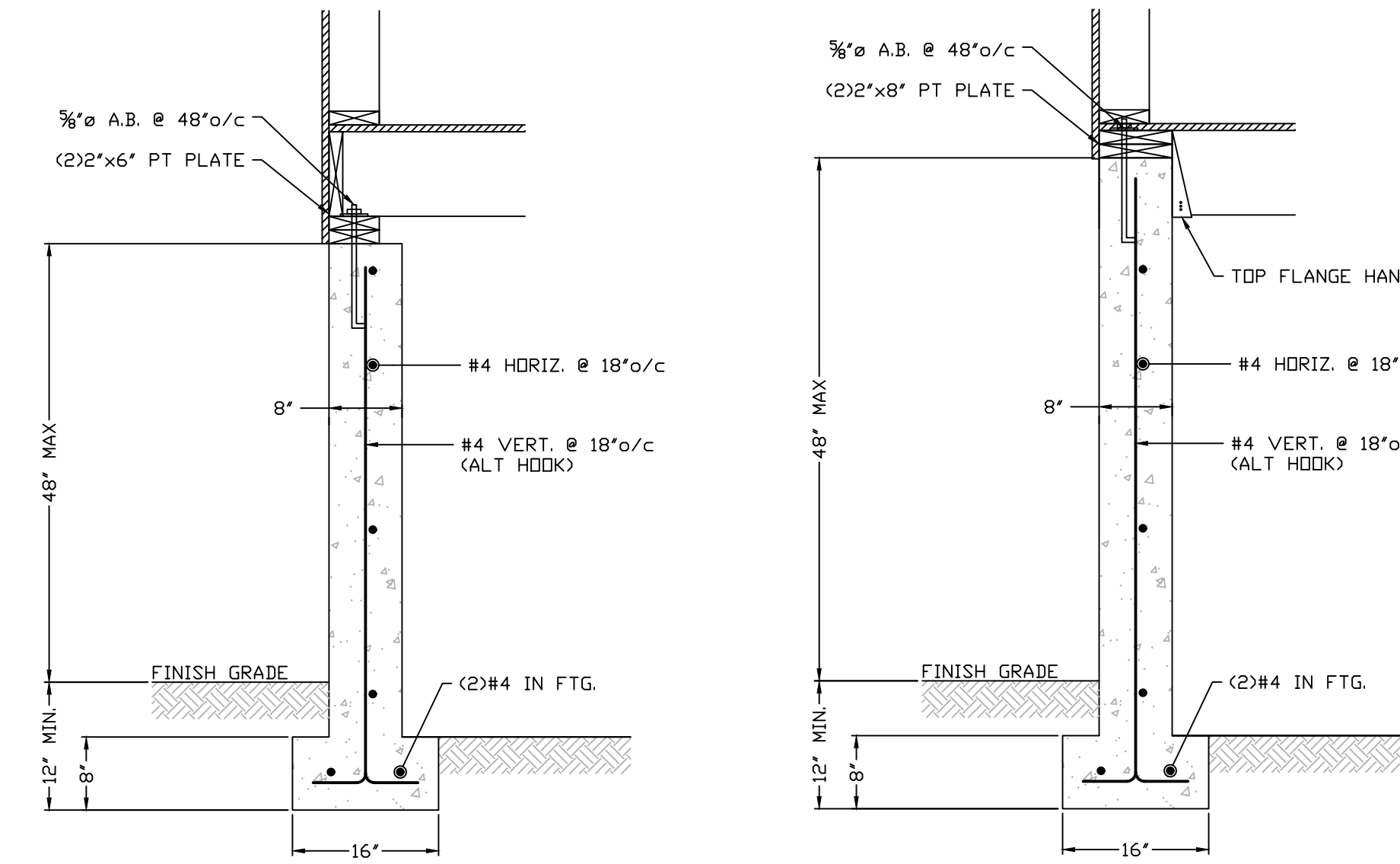


FOUNDATION PLAN

1/4"=1'-0"

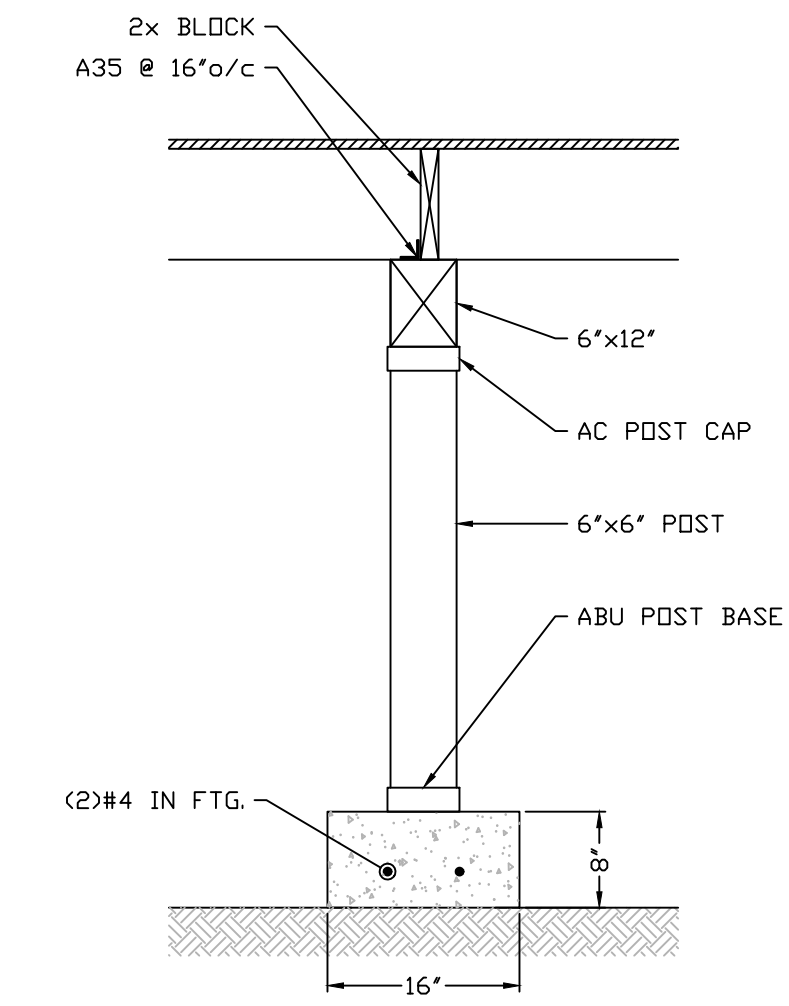
FOOTING SCHEDULE		
24	24"x24"x12"	(3)#4 E.W
36	36"x36"x12"	(6)#4 E.W
48	48"x48"x12"	(8)#4 E.W
72	72"x72"x12"	(12)#4 E.W

- NOTES:
- 3/8" ANCHORS @ 48" o/c U.N.O
 - ▨ FLUSH FLOOR FRAMING (SEE DETAIL 2/S2)

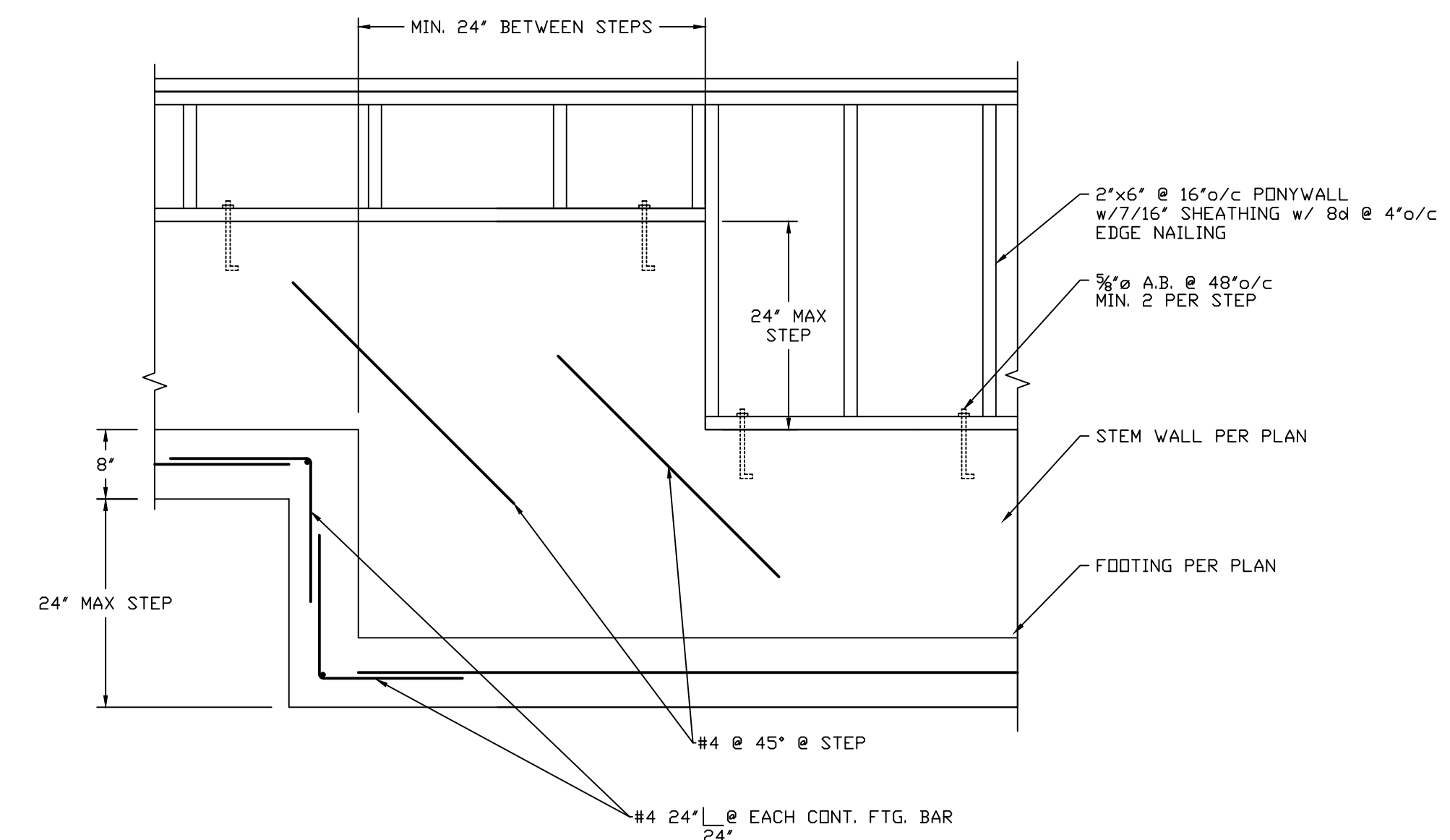


1-TYPICAL FOUNDATION WALL
3/4"=1'-0"

2-FOUNDATION WALL w/FLUSH FLOOR FRAMING
3/4"=1'-0"



3-INTERIOR STRIP FTG.
NTS



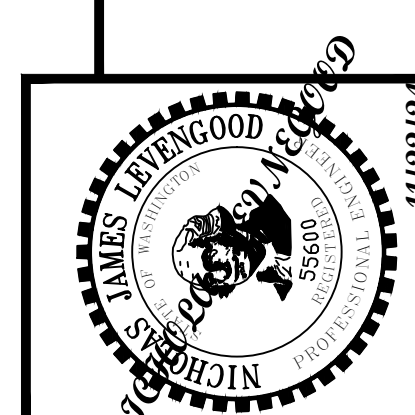
4-TYP. FOOTING/STEMWALL STEP
3/4"=1'-0"

NO	DATE	BY	REVISIONS	
			DESCRIPTION	DATE
DESIGNED	NL	11/24		
DRAWN	NL	11/24		
CHECKED	NL	11/24		
APPROVED				
ACCEPTED				

Russell Palanchuk

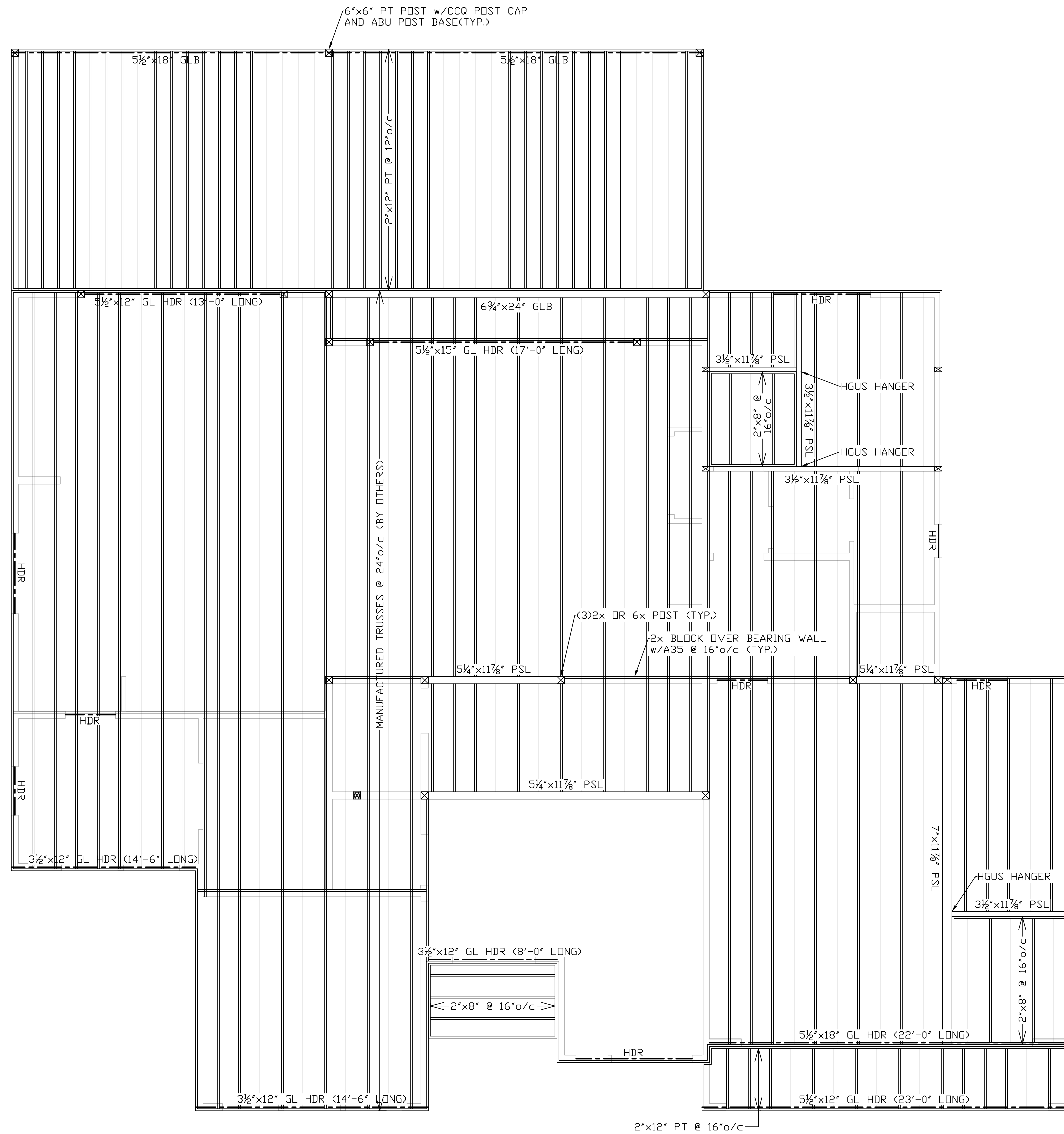
FOR:

Foundation Plan
9734 SE 40th Street
Mercer Island, WA 98040



N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

SCALE: AS SHOWN
DATE: Nov. 2024
DRAWING NUMBER
13320
SHEET S2



SECOND FLOOR FRAMING

1/4"=1'-0"

- NOTES:
- ALL WINDOW/DOOR HDR TO BE 4"x12" HF#2 U.N.O
 - ALL WINDOW/DOOR HDR JACK STUDS TO BE (1)2x U.N.O
 - FLOOR JOISTS TO USE IUS HANGERS
 - DECK JOISTS TO USE LUS HANGERS

REVISIONS		BY	DATE
NO	DATE	BY	DATE

FOR: **Russell Palanchuk**

Second Floor Framing Plan
 9734 SE 40th Street
 Mercer Island, WA 98040

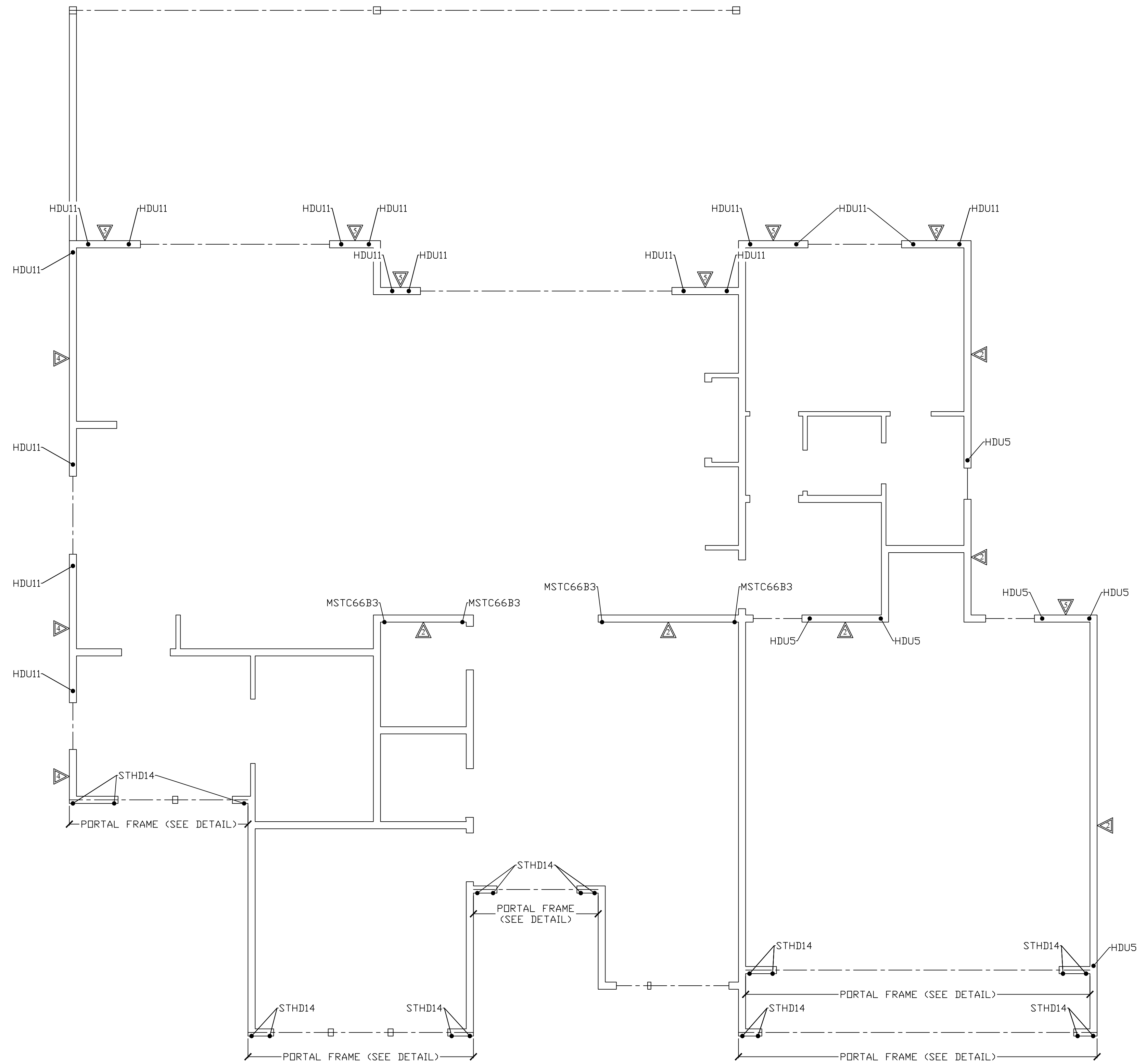
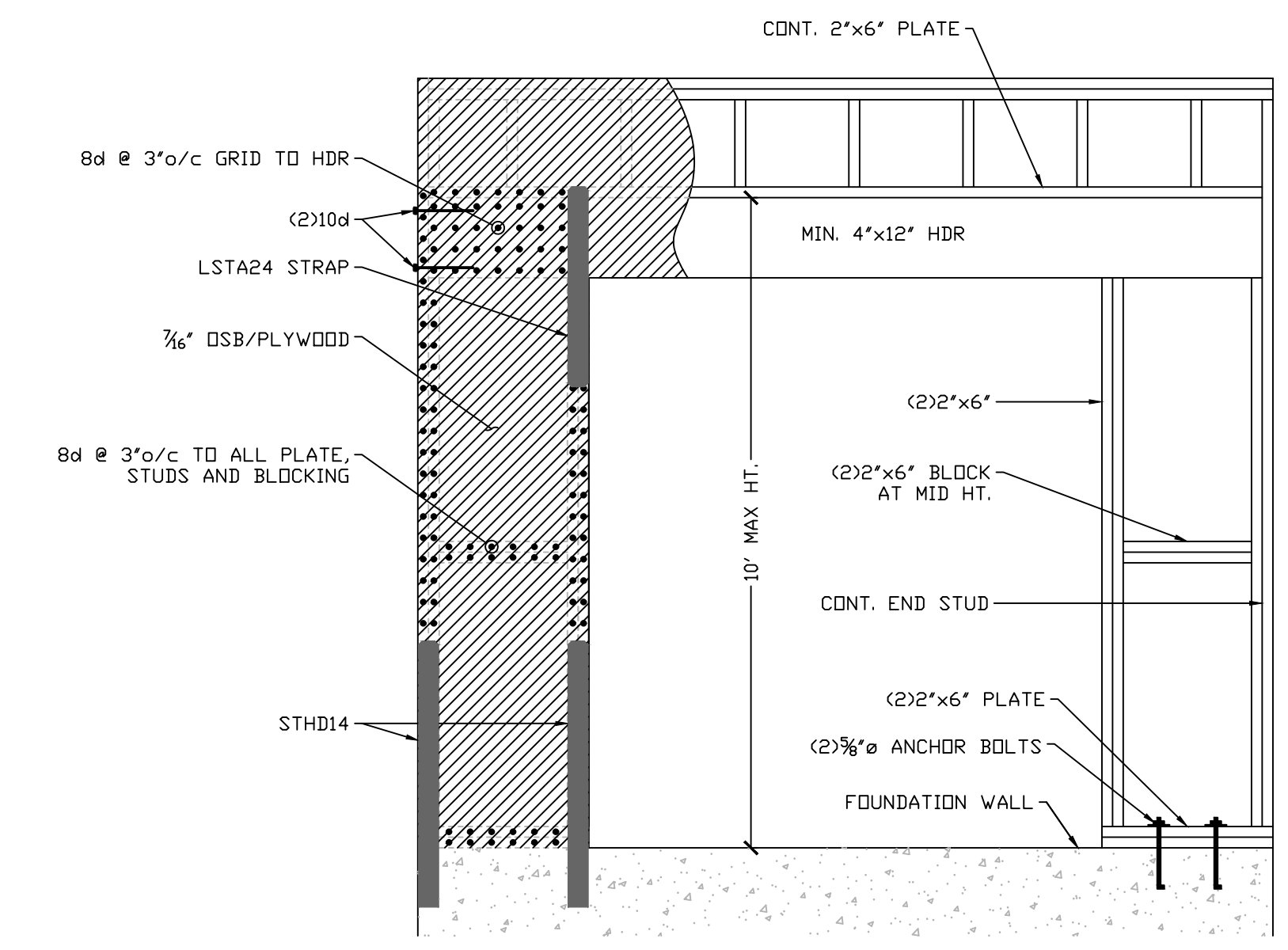


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 Engineering, Planning and Surveying
 (360) 896-2390 or (360) 876-2284
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

SCALE:	AS SHOWN
DATE:	Nov. 2024
DRAWING NUMBER	13320
SHEET	S3

SHEARWALL SCHEDULE					
MARK	MINIMUM SHEATHING	EDGE NAILING	FIELD NAILING	SOLE PLATE NAILING	SILL PLATE CONN. @ FND
△	7/16" CDX ONE FACE	8d @ 6" o.c.	8d @ 12" o.c.	(2)16d @ 16" o/c	5/8" dia. @ 48" o.c. w/ 2x BTM. PLATE
△	7/16" CDX ONE FACE	8d @ 4" o.c.	8d @ 12" o.c.	(2)16d @ 12" o/c	5/8" dia. @ 36" o.c. w/ 2x BTM. PLATE
△	7/16" CDX ONE FACE	8d @ 3" o.c.	8d @ 12" o.c.	(2)16d @ 8" o/c	5/8" dia. @ 30" o.c. w/ 3x BTM. PLATE
△	19/32" CDX ONE FACE	10d @ 3" o.c.	10d @ 12" o.c.	(2)16d @ 6" o/c	5/8" dia. @ 18" o.c. w/ 3x BTM. PLATE
△	19/32" CDX ONE FACE	10d @ 2" o.c.	10d @ 12" o.c.	(2)16d @ 4" o/c	5/8" dia. @ 12" o.c. w/ 3x BTM. PLATE

- SHEARWALL NOTES:**
- ALL STUDS AND BLOCKING SHALL BE HF#2 ALL TOP AND BOTTOM PLATES SHALL BE HF#2. ALL SHEATHING EDGES SHALL BE BACKED WITH 2x OR WIDER FRAMING UNLESS OTHERWISE NOTED (SEE NOTE#2). SHEATHING MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY.
 - WHERE SHEATHING NAILING IS A △ OR GREATER, FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER AND SILL PLATES NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER.
 - NAILING CRITERIA IS BASED ON IBC 2306.3 AND AFAPA SPPV'S TABLE 4.3A FOR CD PLYWOOD AND HF#2 FRAMING. WIRE STAPLES MAY BE SUBSTITUTED AS OUTLINED IN THE STRUCTURAL NOTES. OTHER SUBSTITUTIONS MUST BE VERIFIED IN WRITING BY THE STRL. ENGINEER.
 - HOLD-DOWNS AND OTHER CONNECTIONS MAY BE REQUIRED AT THE ENDS OF MANY SHEARWALLS. SIZES AND LOCATIONS OF THESE CONNECTORS ARE INDICATED IN THE PLANS. REFER TO THE APPROPRIATE CONNECTOR DETAILS FOR ADDITIONAL INFORMATION REGARDING ANCHOR BOLTS, EMBEDMENT LENGTH, ETC.
 - ANCHOR BOLTS MUST BE EMBEDDED INTO CONCRETE OR GRouted CMU A MINIMUM OF 7" AND SHALL BE PLACED TO PROVIDE A MINIMUM OF 2" GRouted CLEAR TO THE FACE OF FORMED CONCRETE (PROVIDED 3" CLEAR FOR CONCRETE CAST AGAINST SOIL).
 - EDGE OF ANCHOR BOLT WASHER SHALL BE WITHIN 1/2" OF SHEAR WALL SHEATHING



FIRST FLOOR SHEARWALLS

1/4"=1'-0"

- NOTES:**
- STHD STRAPS TO ATTACH TO MIN. (2)2x POST
 - HDU5 TO ATTACH TO MIN. (2)2x POST
 - HDU8 TO ATTACH TO MIN. (3)2x POST
 - HDU11 TO ATTACH TO MIN. (4)2x POST

NO	DATE	BY	DESCRIPTION	REVISIONS		
				DESIGNED	CHECKED	APPROVED

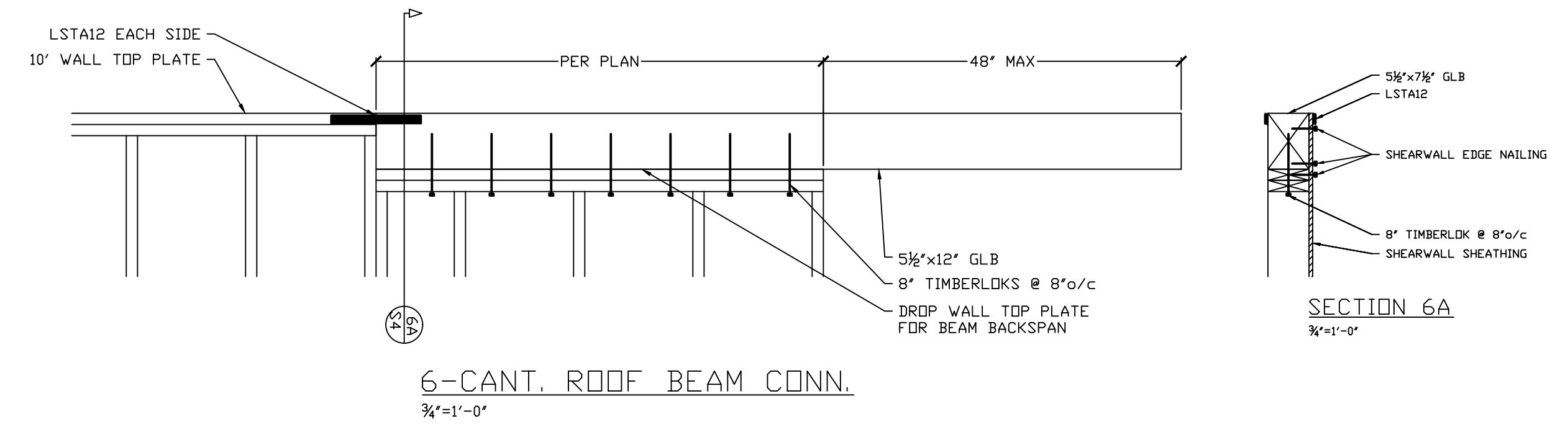
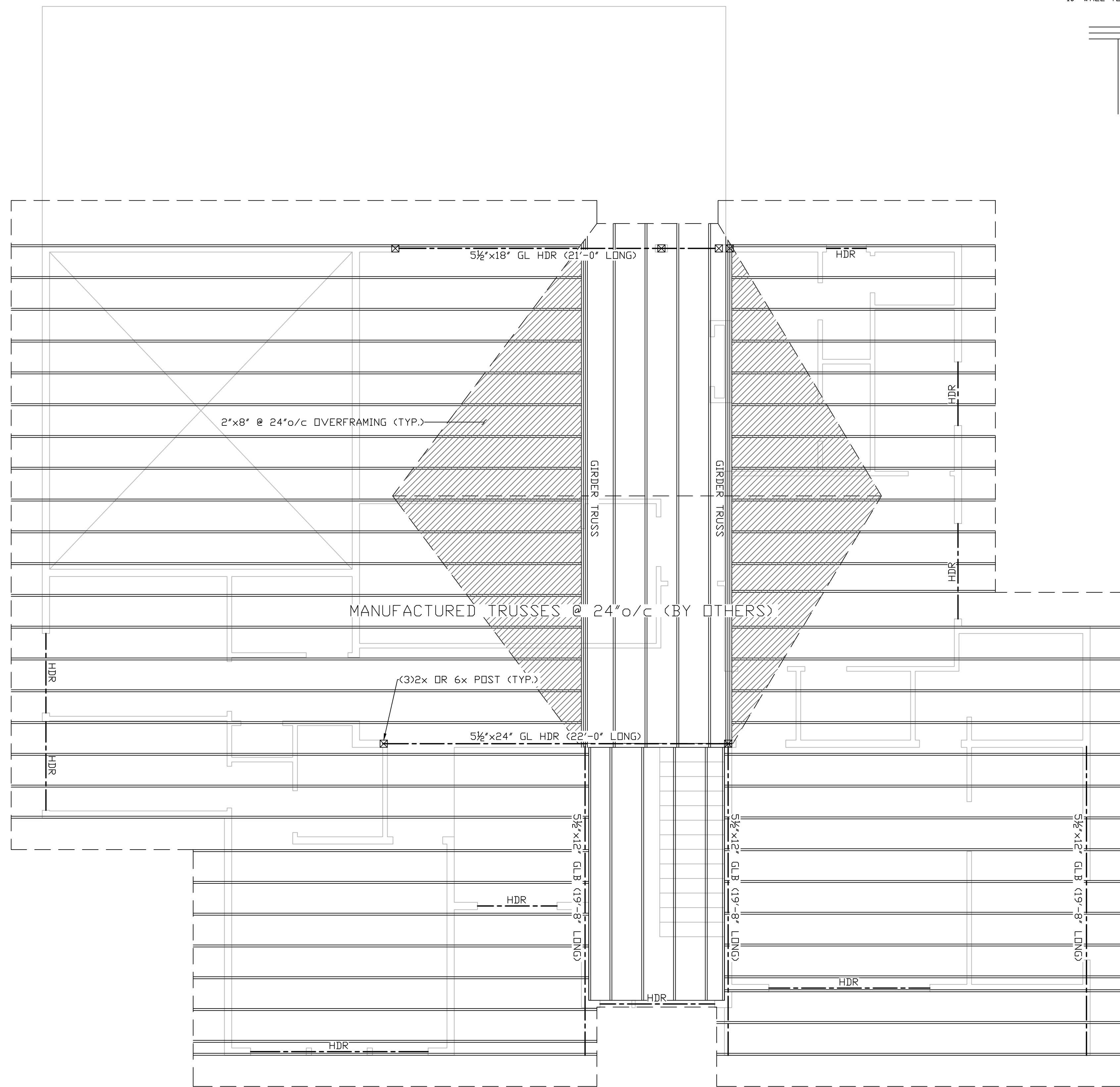
FOR: **Russell Palanchuk**

First Floor Shearwall Plan
9734 SE 40th Street
Mercer Island, WA 98040



N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

SCALE: AS SHOWN
DATE: Nov. 2024
DRAWING NUMBER
13320
SHEET **S3.1**



ROOF FRAMING

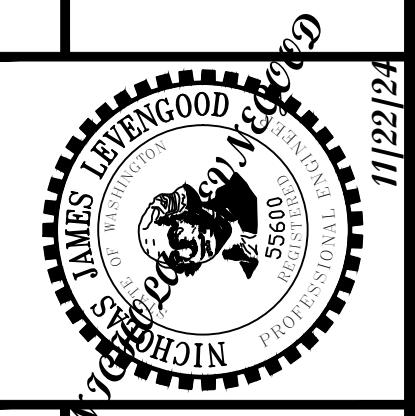
1/4"=1'-0"

- NOTES:
- ALL WINDOW/DOOR HDR TO BE 4"x12" HF#2 U.N.O
 - ALL WINDOW/DOOR HDR JACK STUDS TO BE (1)2x U.N.O
 - TRUSS HANGERS PER MANUFACTURER

REVISIONS		NO	DATE	BY	DATE
DESIGNED	NL	11/24			
DRAWN	NL	11/24			
CHECKED	NL	11/24			
APPROVED					
ACCEPTED					

FOR: **Russell Palanchuk**

Roof Framing Plan
 9734 SE 40th Street
 Mercer Island, WA 98040



N.L. Olson & Associates, Inc.
 Engineering, Planning and Surveying
 (360) 895-2350 or (360) 876-2284
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

SCALE:	AS SHOWN
DATE:	Nov. 2024
DRAWING NUMBER	13320
SHEET	S4

SHEARWALL SCHEDULE					
MARK	MINIMUM SHEATHING	EDGE NAILING	FIELD NAILING	SOLE PLATE NAILING	SILL PLATE CONN. @ END
△	7/16" CDX ONE FACE	8d @ 6" o.c.	8d @ 12" o.c.	(2)16d @ 16" o/c	5/8" dia. @ 48" o.c. w/ 2x BTM. PLATE
△	7/16" CDX ONE FACE	8d @ 4" o.c.	8d @ 12" o.c.	(2)16d @ 12" o/c	5/8" dia. @ 36" o.c. w/ 2x BTM. PLATE
△	7/16" CDX ONE FACE	8d @ 3" o.c.	8d @ 12" o.c.	(2)16d @ 8" o/c	5/8" dia. @ 30" o.c. w/ 3x BTM. PLATE
△	19/32" CDX ONE FACE	10d @ 3" o.c.	10d @ 12" o.c.	(2)16d @ 6" o/c	5/8" dia. @ 18" o.c. w/ 3x BTM. PLATE
△	19/32" CDX ONE FACE	10d @ 2" o.c.	10d @ 12" o.c.	(2)16d @ 4" o/c	5/8" dia. @ 12" o.c. w/ 3x BTM. PLATE

- SHEARWALL NOTES:**
- ALL STUDS AND BLOCKING SHALL BE HF#2 ALL TOP AND BOTTOM PLATES SHALL BE HF#2. ALL SHEATHING EDGES SHALL BE BACKED WITH 2x OR WIDER FRAMING UNLESS OTHERWISE NOTED (SEE NOTE#2). SHEATHING MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY.
 - WHERE SHEATHING NAILING IS A △ OR GREATER, FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER AND SILL PLATES NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER.
 - NAILING CRITERIA IS BASED ON IBC 2306.3 AND AF&PA SP18'S TABLE 4.3A FOR CD PLYWOOD AND HF#2 FRAMING. WIRE STAPLES MAY BE SUBSTITUTED AS OUTLINED IN THE STRUCTURAL NOTES. OTHER SUBSTITUTIONS MUST BE VERIFIED IN WRITING BY THE STRL. ENGINEER.
 - HOLD-DOWNS AND OTHER CONNECTIONS MAY BE REQUIRED AT THE ENDS OF MANY SHEARWALLS. SIZES AND LOCATIONS OF THESE CONNECTORS ARE INDICATED ON THE PLANS. REFER TO THE APPROPRIATE CONNECTOR DETAILS FOR ADDITIONAL INFORMATION REGARDING ANCHOR BOLTS, EMBEDMENT LENGTH, ETC.
 - ANCHOR BOLTS MUST BE EMBEDDED INTO CONCRETE OR GRouted CMU A MINIMUM OF 7" AND SHALL BE PLACED TO PROVIDE A MINIMUM OF 2" GRouted CLEAR TO THE FACE OF FORMED CONCRETE (PROVIDED 3" CLEAR FOR CONCRETE CAST AGAINST SOIL).
 - EDGE OF ANCHOR BOLT WASHER SHALL BE WITHIN 1/2" OF SHEAR WALL SHEATHING

NO	DATE	BY	REVISIONS			
			DESCRIPTION	DESIGNED	DRAWN	CHECKED

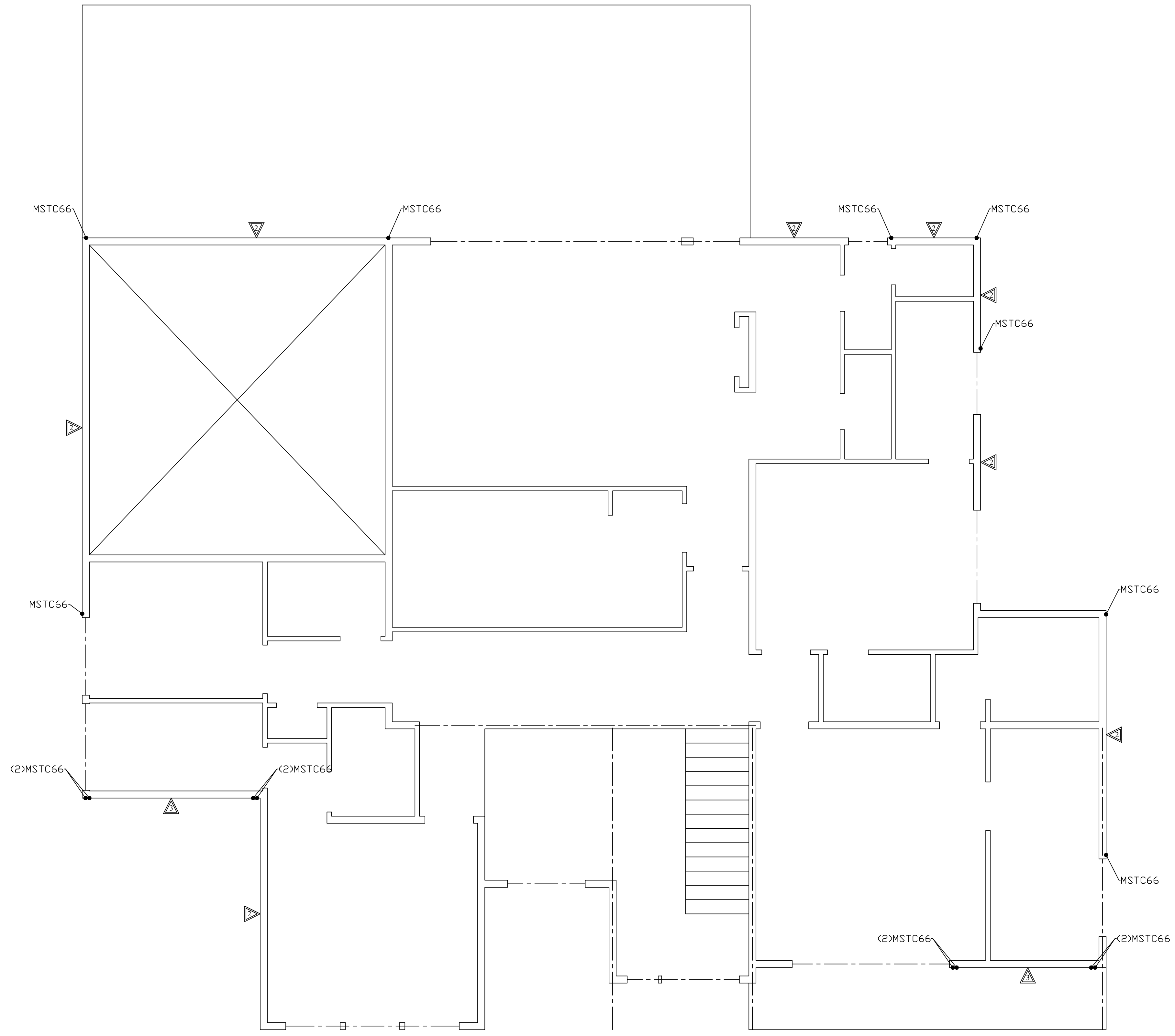
FOR: **Russell Palanchuk**

Second Floor Shearwall Plan
 9734 SE 40th Street
 Mercer Island, WA 98040



N.L. Olson & Associates, Inc.
 Engineering, Planning and Surveying
 (360) 895-2350 or (360) 876-2284
 2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

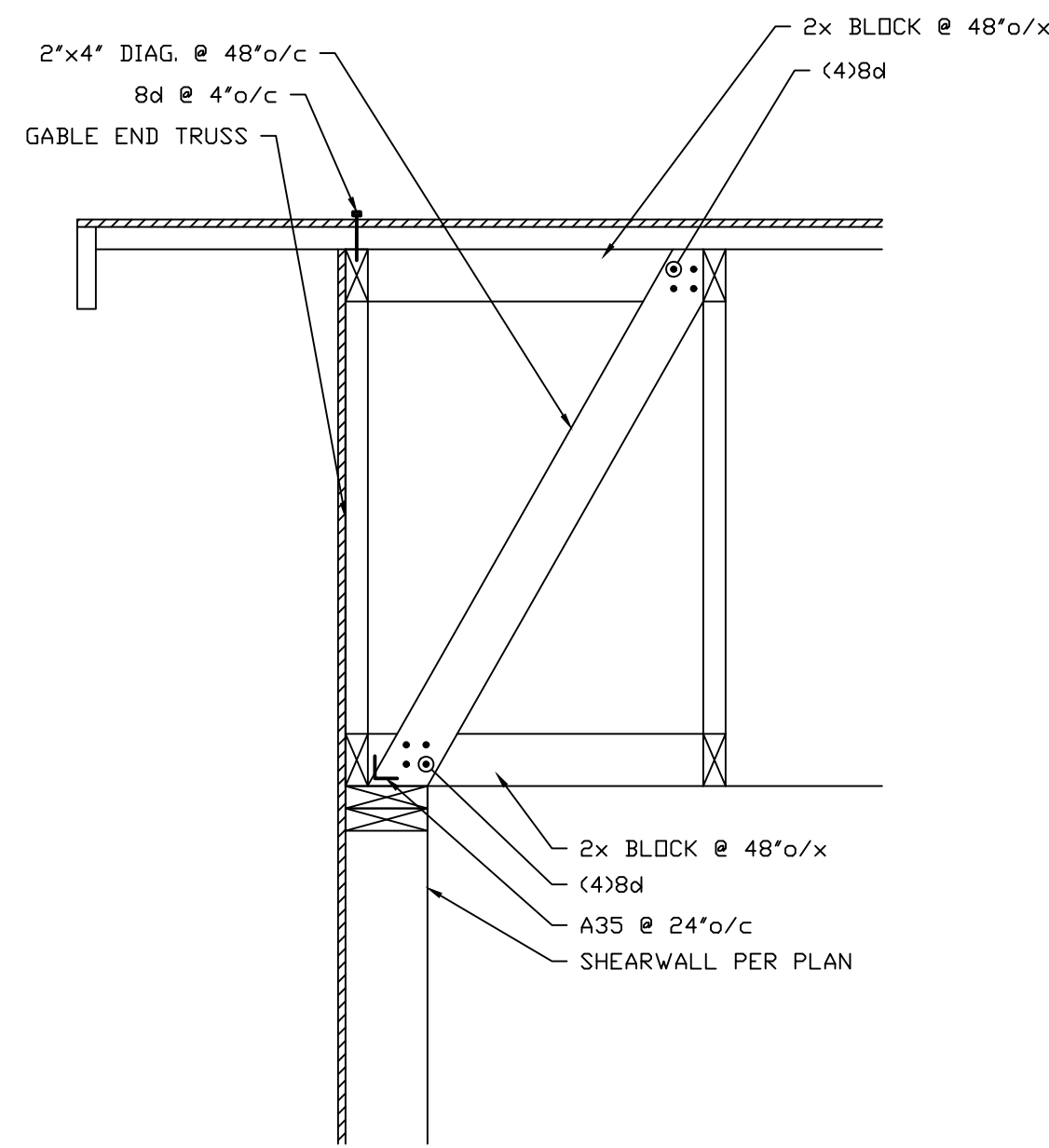
SCALE: AS SHOWN
 DATE: Nov. 2024
 DRAWING NUMBER: **13320**
 SHEET: **S4.1**



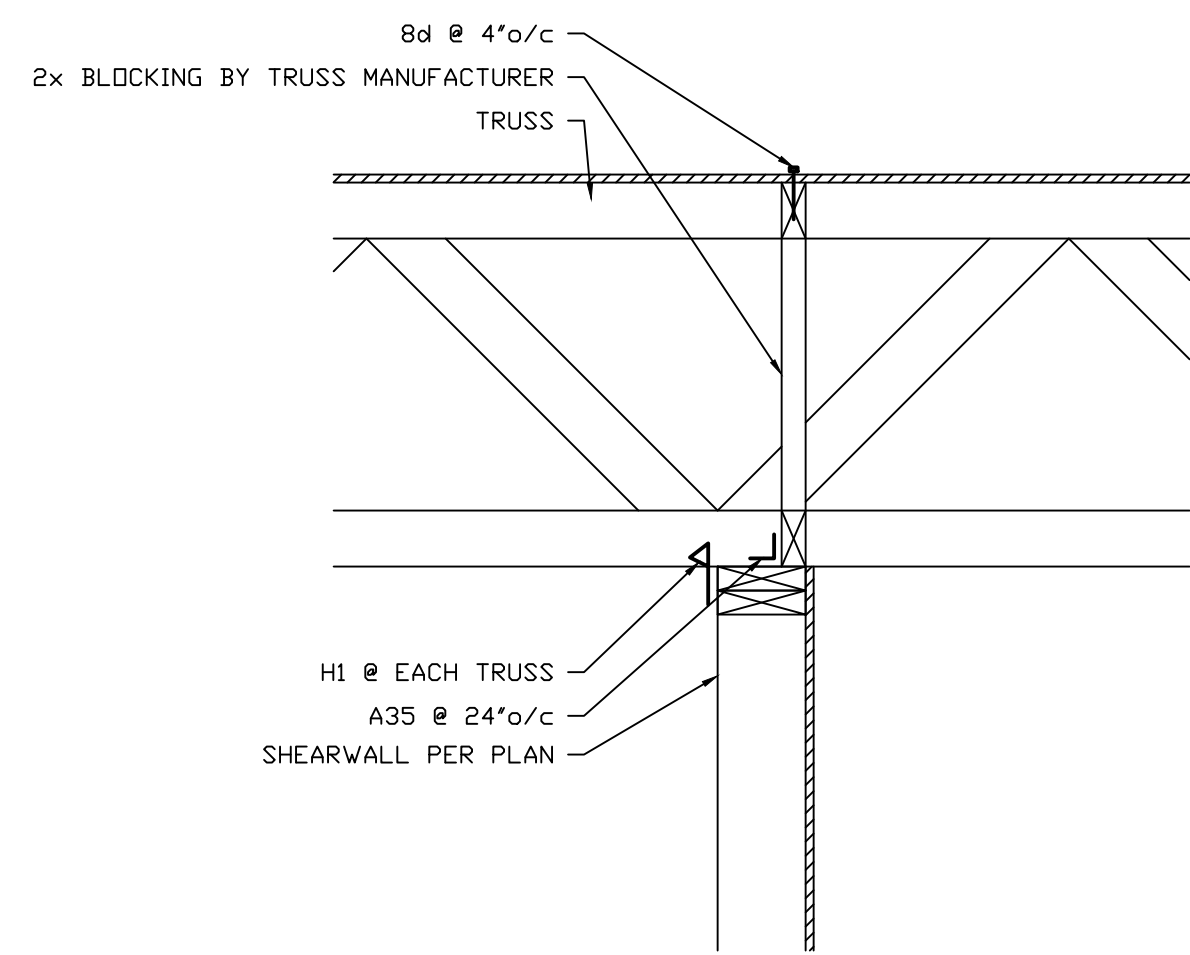
SECOND FLOOR SHEARWALLS

1/4"=1'-0"

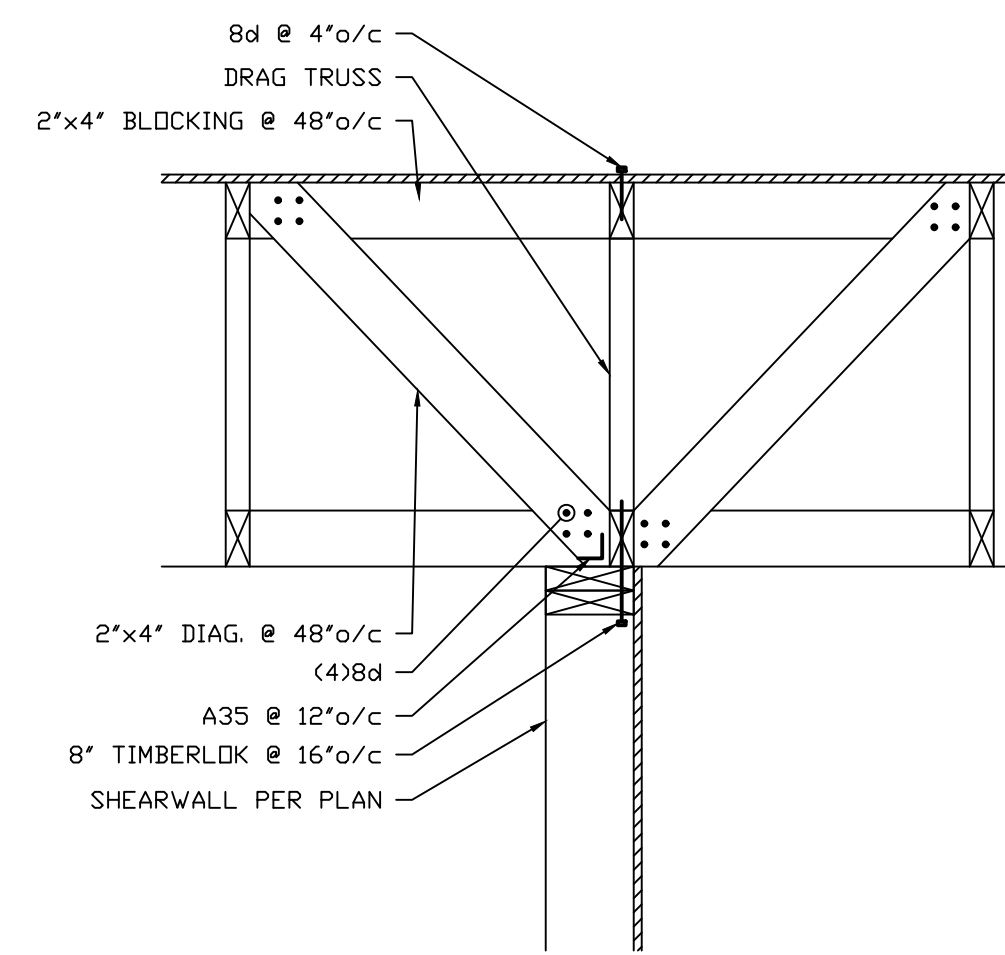
- NOTES:
- MSTC STRAPS TO ATTACH TO MIN. (2)2x POST



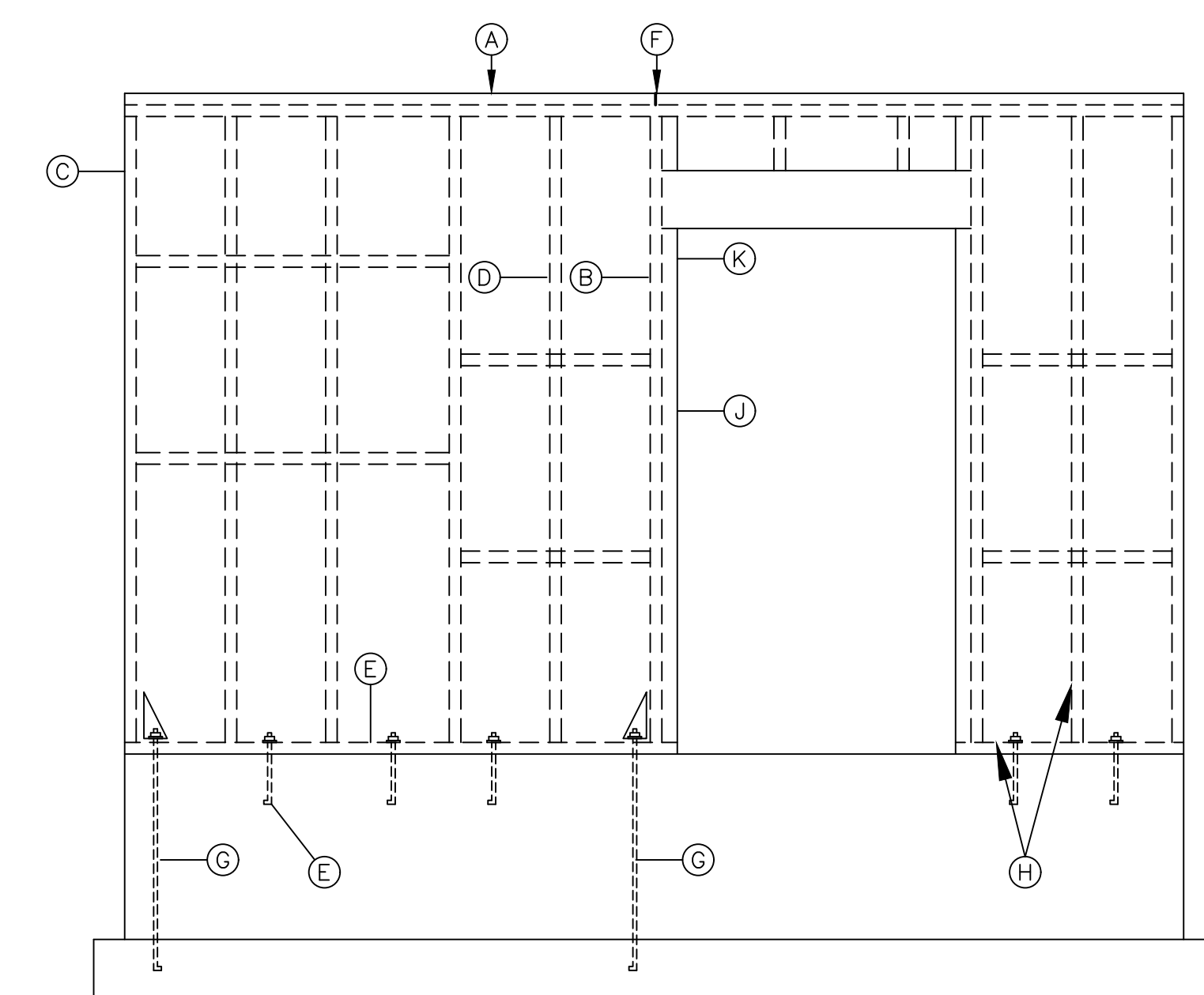
7-GABLE END ROOF SECTION
1"=1'-0"



8-ROOF TO INTERIOR SHEARWALL CONN. (PERP.)
1"=1'-0"

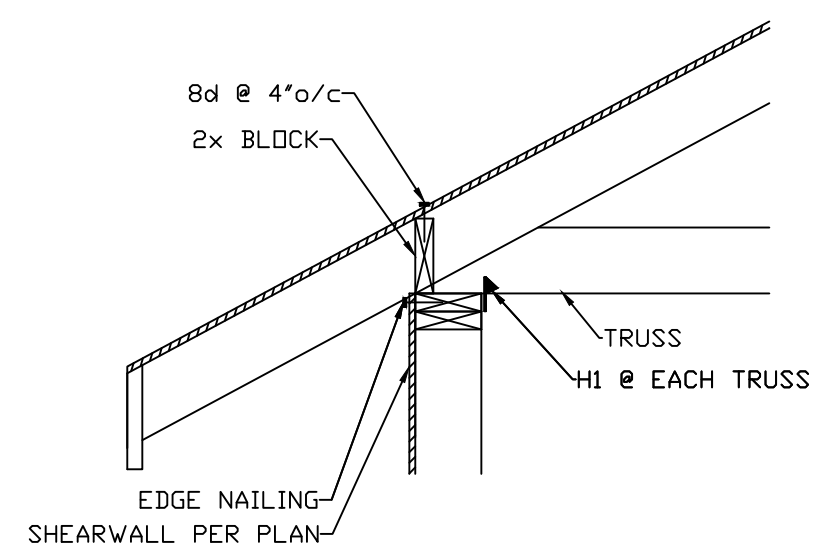


9-ROOF TO INTERIOR SHEARWALL CONN. (PARA.)
1"=1'-0"

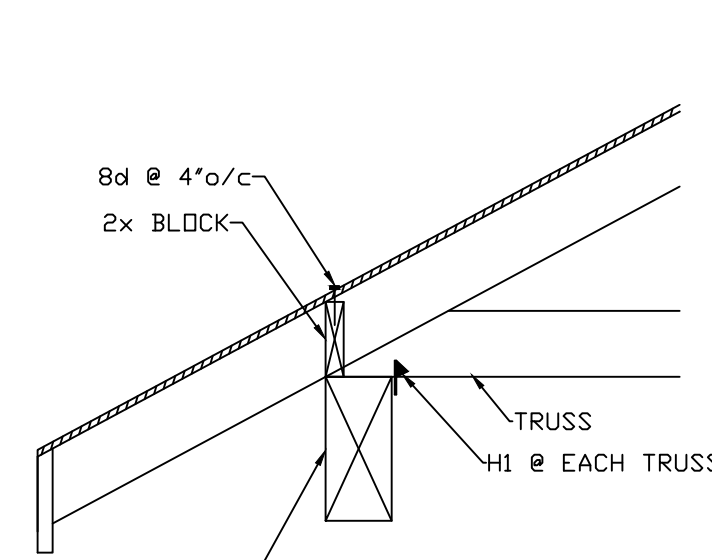


- (A) DOUBLE TOP PLATE w/ EDGE NAILING (STAGGER) (F) TOP PLATE SPLICE AND NAILING PER PLANS. SEE SHEARWALL SCHEDULE FOR LUMBER GRADE. LAP 4'-0" MINIMUM. CENTER SPLICE ON STUD.
- (B) EDGE NAILING AT ALL PANEL EDGES. BACK w/ 2x BLOCKING OR BACKING (G) HOLDDOWN PER SCHEDULE AND PLAN
- (C) EDGE NAILING TO HOLDDOWN POST (FULL HEIGHT) (H) COORDINATE ALL STUD AND PLATE SIZES w/ SHEARWALL SCHEDULE REQUIREMENTS
- (D) STUDS @ 16" o.c. (I) EDGE NAILING TO POSTS. TRIM STUDS AND KING STUDS
- (E) P.T. SILL PLATE w/ EDGE NAILING & ANCHOR BOLTS PER SHEARWALL SCHEDULE (PROVIDE A MINIMUM OF 5/8" dia. ANCHOR BOLTS @ 48" o.c.) (K) JACK STUD FOR HEADER

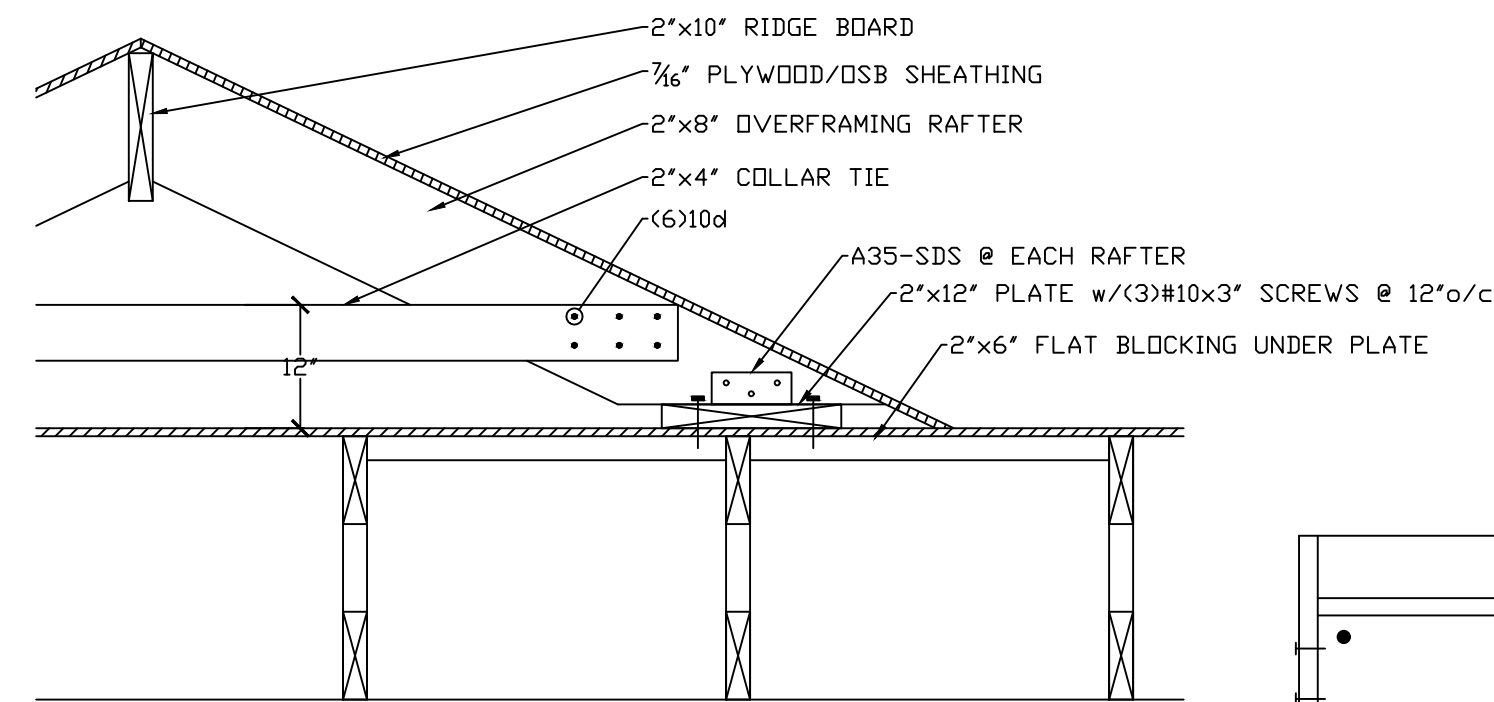
10-TYPICAL WOOD WALL FRAMING
NTS



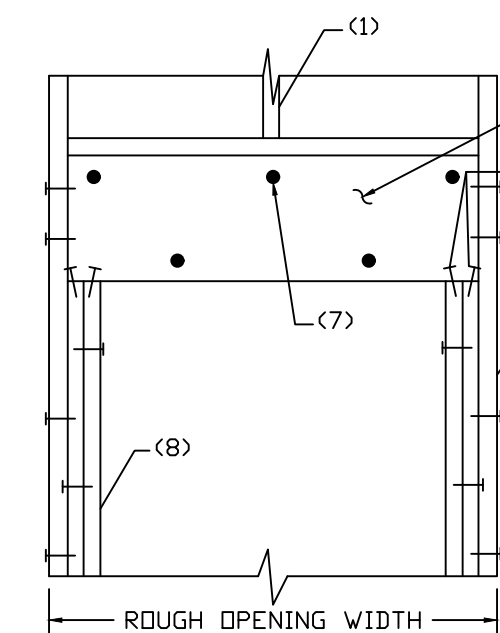
11-TYPICAL TRUSS AT SHEARWALL CONN.
3/4"=1'-0"



12-TRUSS AT BEAM CONN.
3/4"=1'-0"

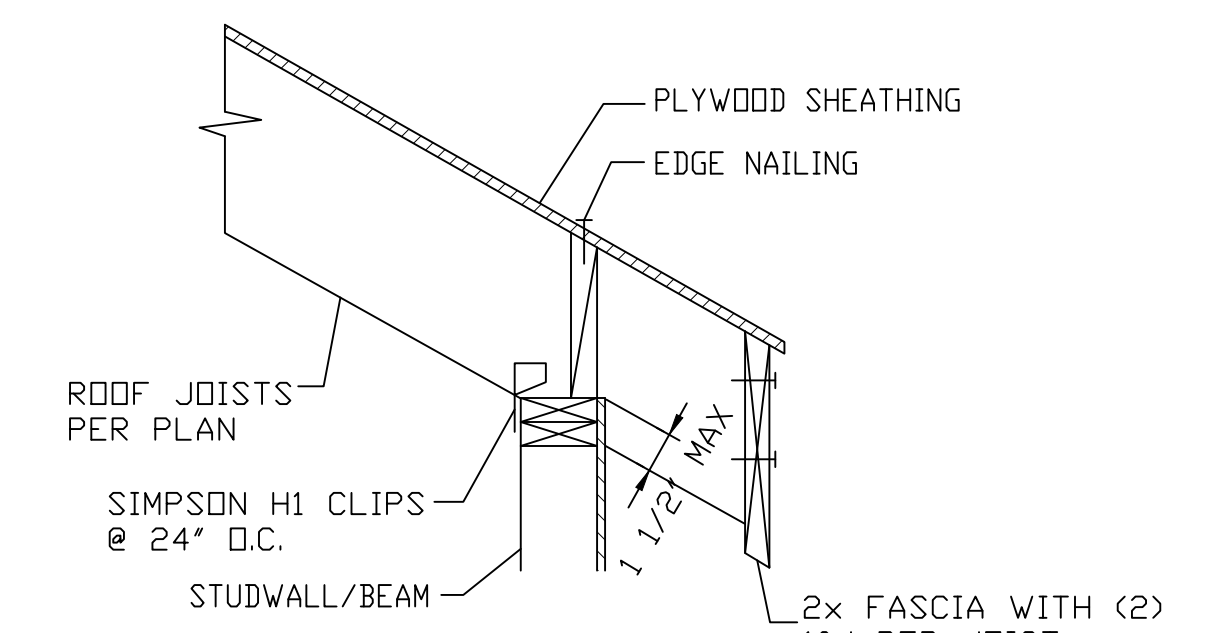


13-TYPICAL OVERFRAMING
NTS

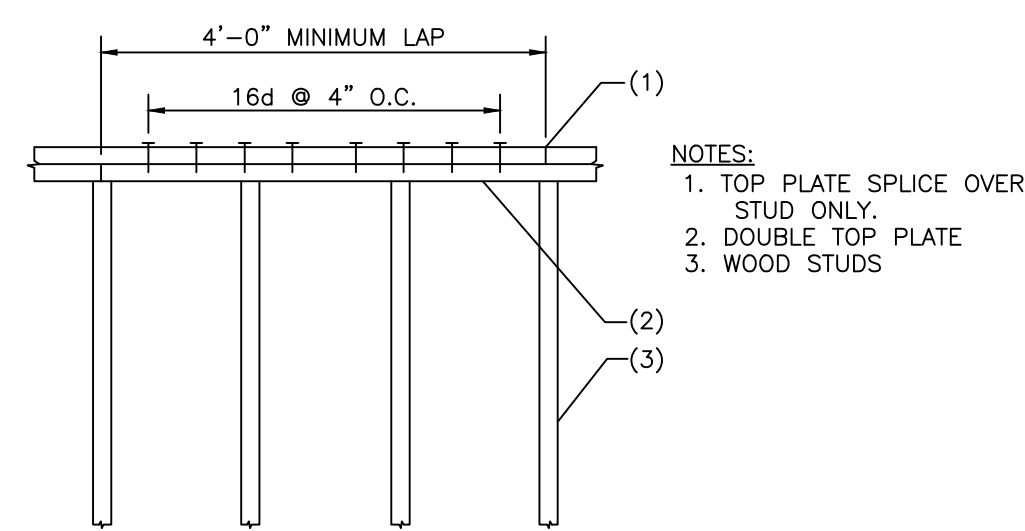


14-WOOD HEADER
NTS

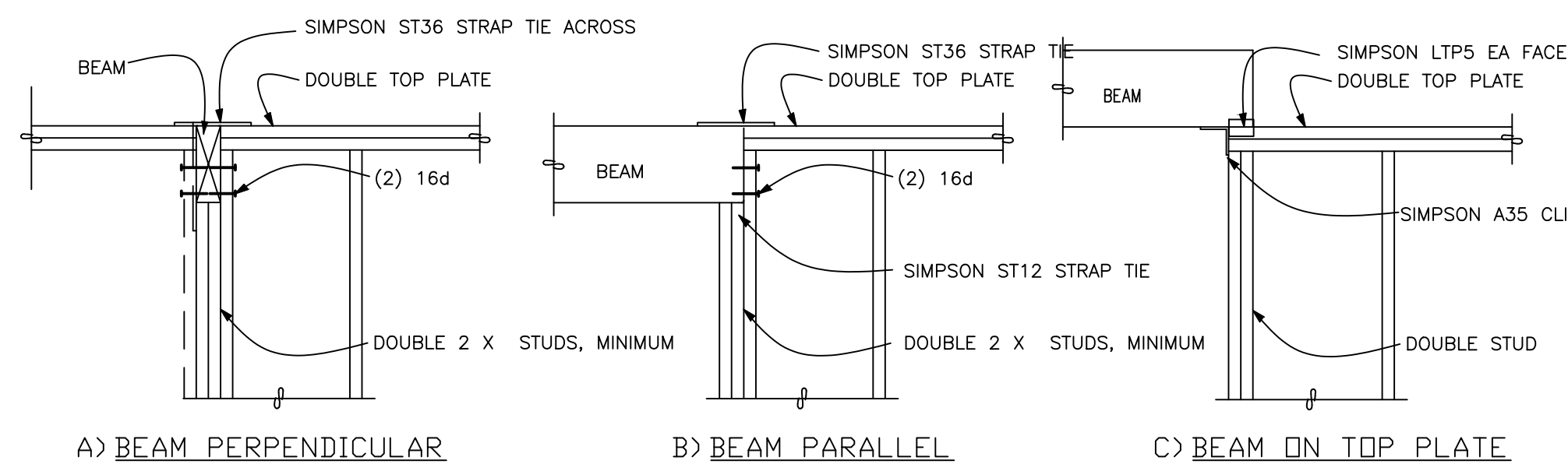
- NOTES:
- WOOD STUD WALL
 - WOOD HEADER PER PLAN
 - (2) 16d TOENAILS EACH SIDE, EACH END
 - (2) 16d AS SHOWN
 - RUN VERTICAL STUDS UP PAST HEADER AS SHOWN - USE DOUBLE KING STUDS FOR OPENINGS GREATER THAN 5'-0"
 - (2) 16d @ 12" O.C.
 - 16d @ 12" O.C. STAGGERED BOTH SIDES
 - DOUBLE STUDS UNDER HEADER BEARINGS FOR OPENING WIDTHS GREATER THAN 5'-0"



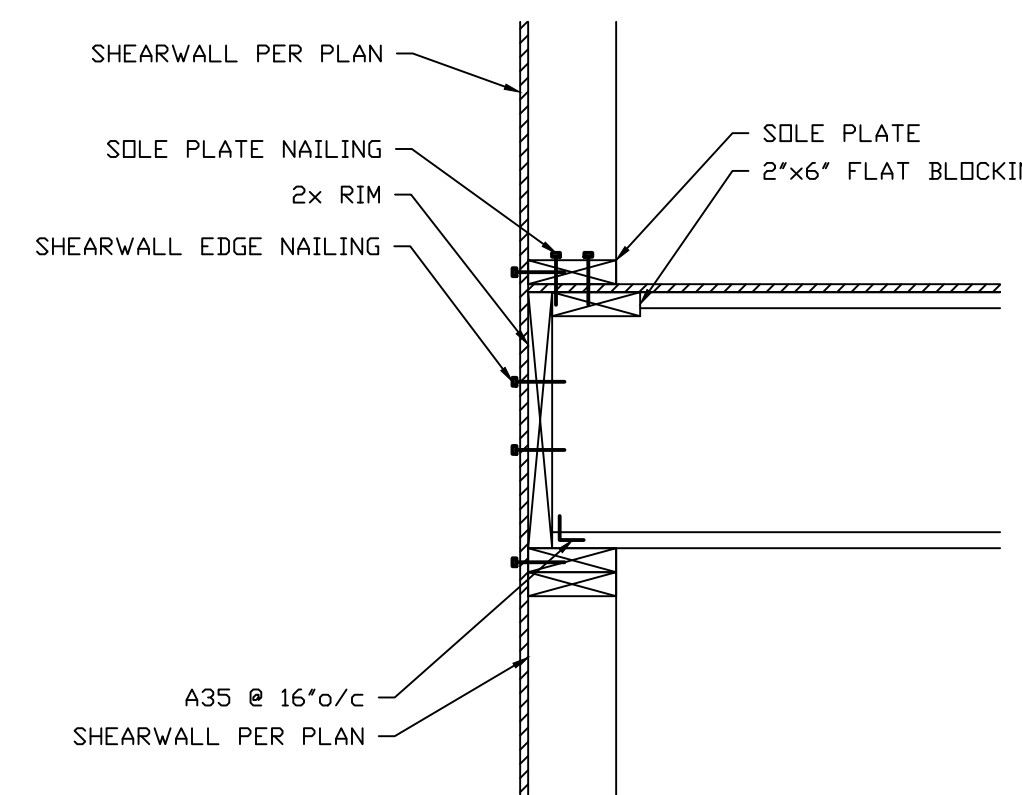
21-WOOD RAFTER AT WOOD STUDWALL/BEAM
NTS



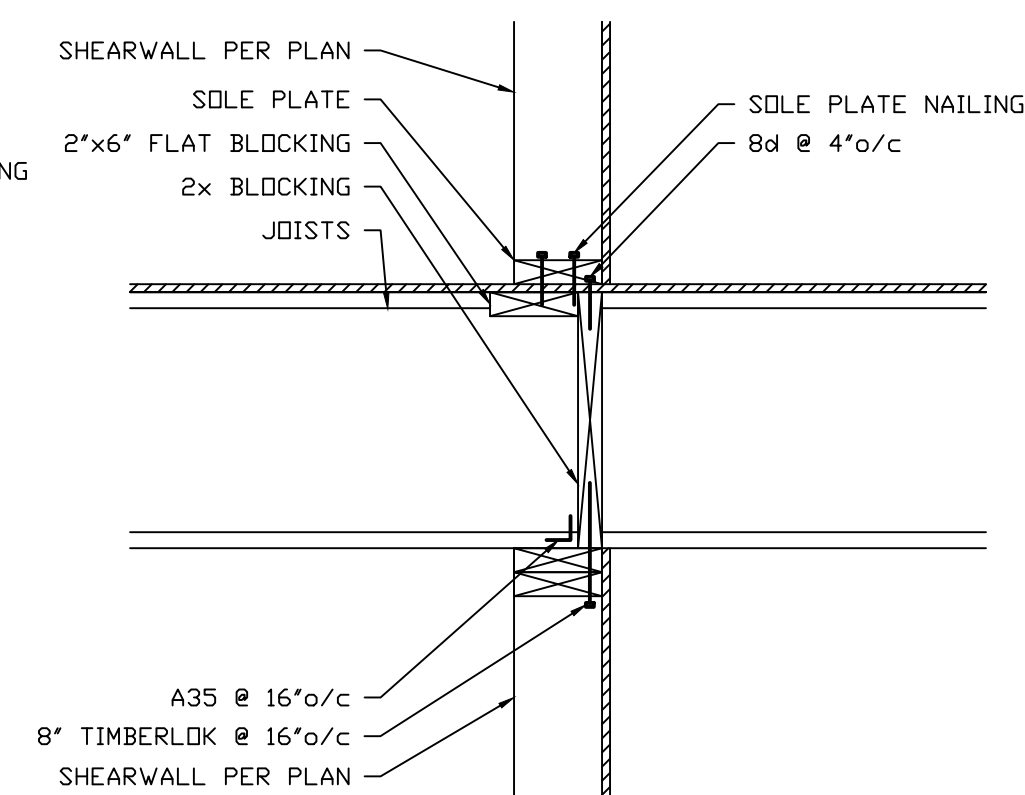
15-TYPICAL SPLICE OF WOOD TOP PLATE
1"=1'-0"



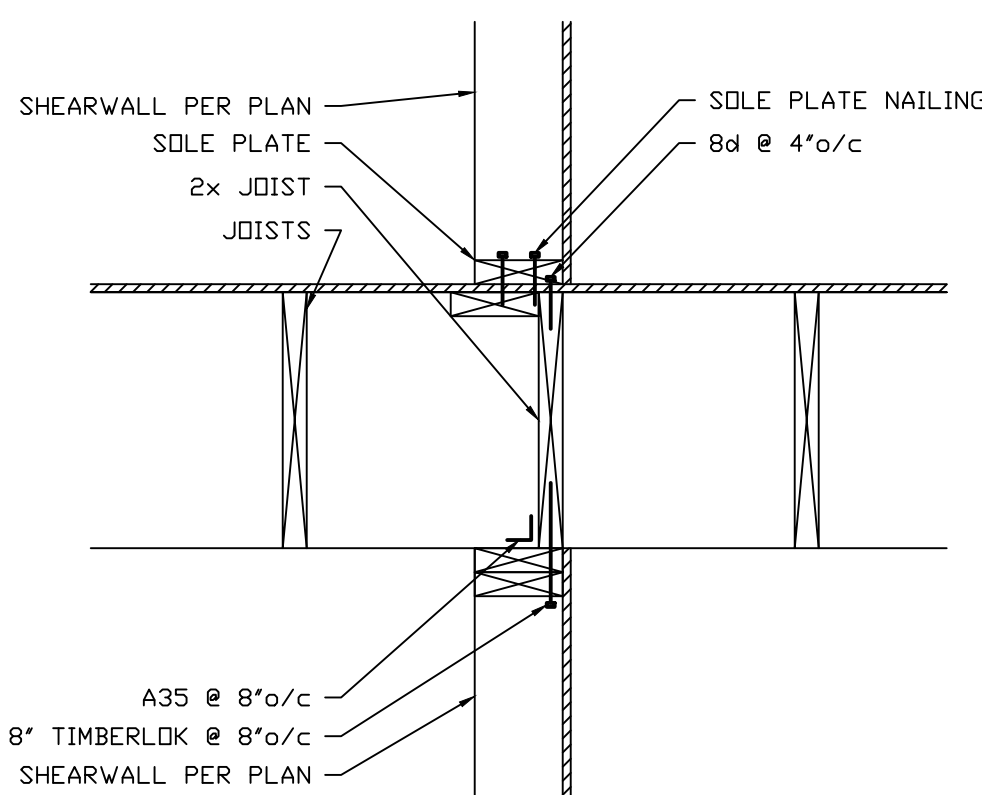
16-TYPICAL WOOD BEAM TO WOOD FRAMING
1"=1'-0"



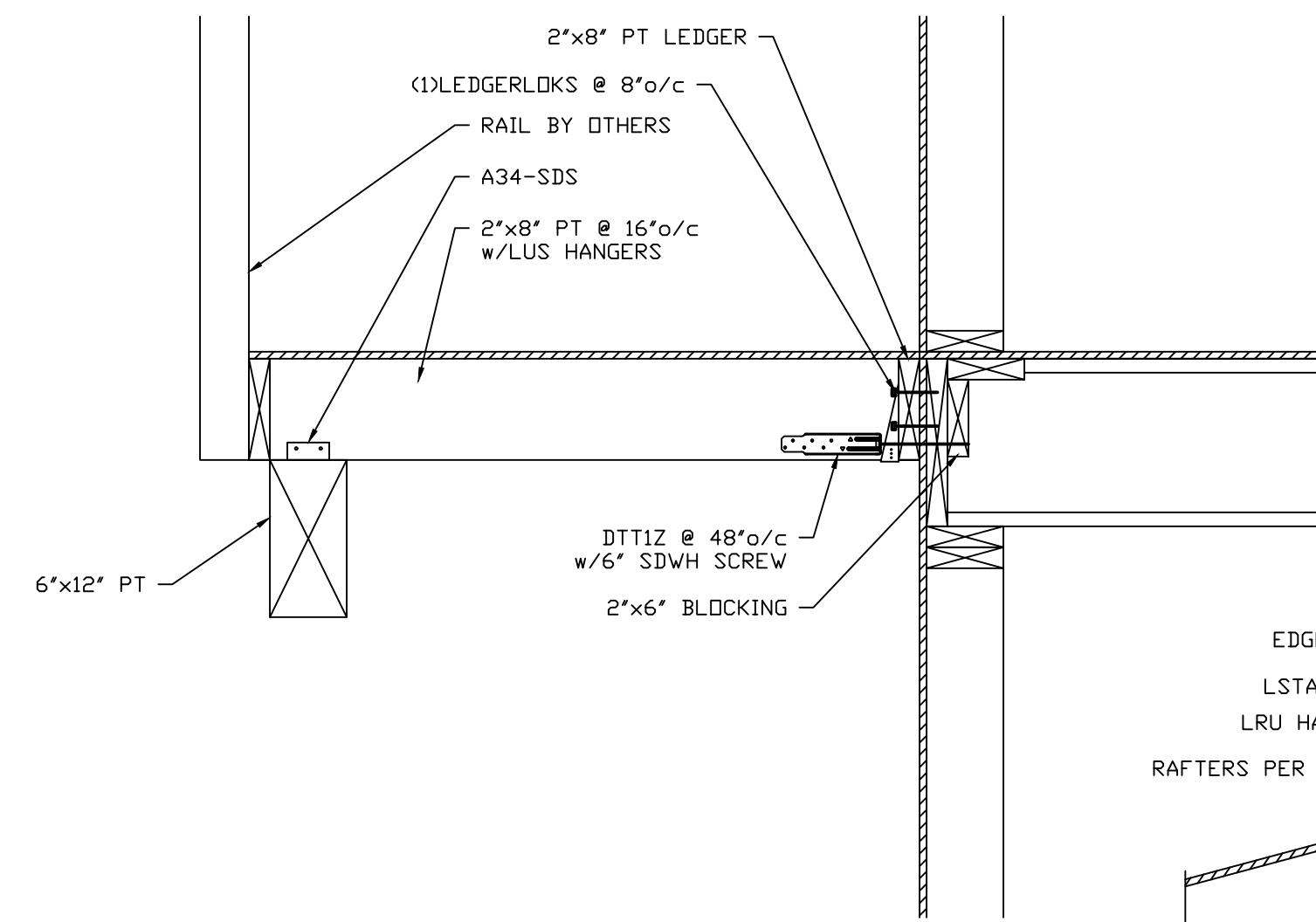
17-FLOOR TO FLOOR CONN.
1"=1'-0"



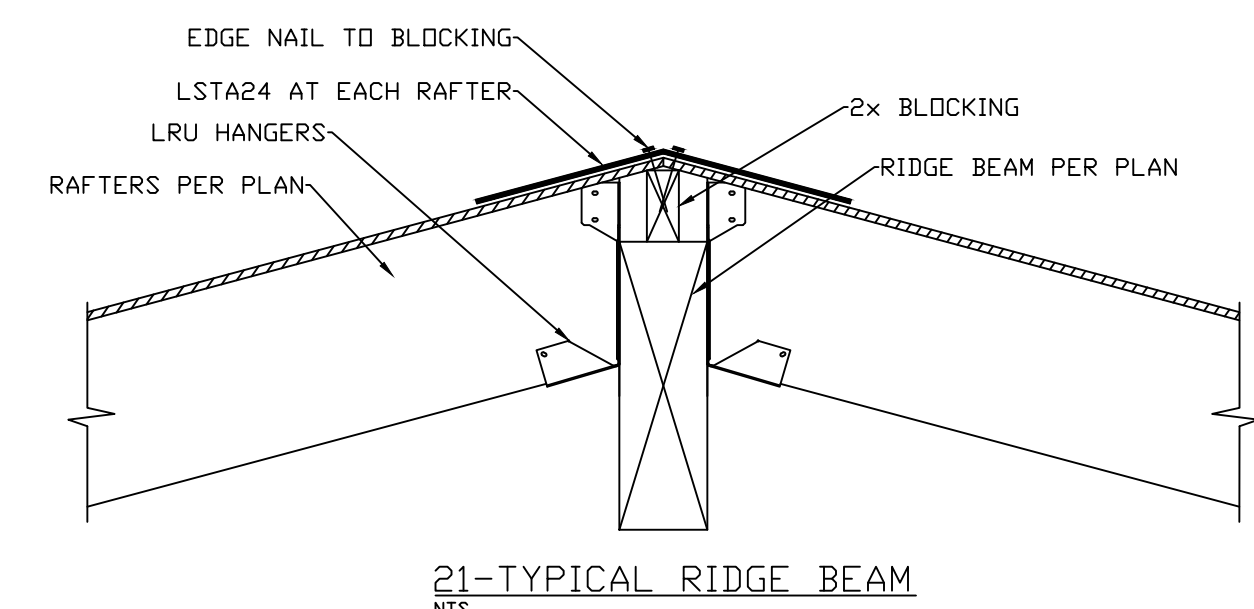
18-FLOOR TO INTERIOR SHEARWALL CONN. (PERP.)
1"=1'-0"



19-FLOOR TO INTERIOR SHEARWALL CONN. (PARA.)
1"=1'-0"



20-TYPICAL DECK SECTION
1"=1'-0"



21-TYPICAL RIDGE BEAM
NTS

REVISIONS		BY	DATE
NO.	DESCRIPTION	NIL	11/24
		NIL	11/24
		NIL	11/24
		NIL	11/24
		NIL	11/24

FOR: **Russell Palanchuk**

Structural Details
9734 SE 40th Street
Mercer Island, WA 98040



N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 895-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

SCALE: AS SHOWN
DATE: Nov. 2024
DRAWING NUMBER
13320
SHEET **S5**

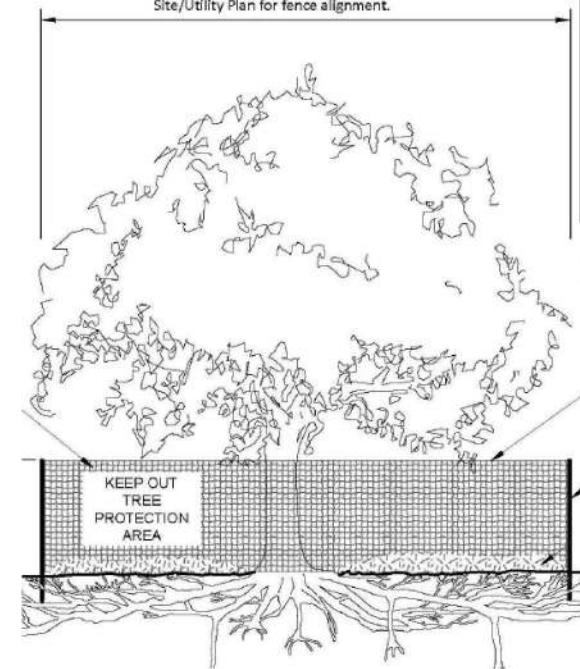
DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA

Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to:

1. Correction Notices or Stop Work Orders until compliance is achieved
2. RE Inspection Fees/financial penalties
3. Arborist reports recommending mitigation

Notes

1. No pruning shall be performed unless under the direction of the Project Arborist. Including limbing trees up.
2. No grading, excavation, storage (materials, equipment, vehicles, etc.), or other unpermitted activity shall occur inside the protective fencing.
3. Penalties for damaging by root damage/compaction or removing a saved tree may be a fine up to three times the value of the tree plus restoration (MICC 19.10.160).
4. Any work in approved TP2 must be with the permission of the City Arborist (206) 275-7713, john.kenney@mercergov.org.
5. 5" course woodchips within the tree protection zone, but not against the tree trunk.



Tree protection fence: 6' chain link fence, solidly anchored into the ground, or if authorized High-density polyethylene fencing with 3.5" x 1.5" openings; color orange. Steel posts installed at 8' o.c.

2" x 6" steel posts or approved equal

Maintain existing grade with the tree protection fence unless otherwise indication on the plans

Any Work in the protected area must be with the permission of the City Arborist john.kenney@mercergov.org

Tree Assessment		Site: Palanchuck, 9734 40th St., Mercer Island, WA		Tax ID: 502190-0898		Date: 2/11/2025		Assessor: Tom Hanson PN0426A		Project: 2025-19												
Tag #	Tree #	Common	Species	DBH (inches)	Height (feet)	Crown Ratio (%)	Dripheight (feet)	Protection Zone-Outer Radius (feet)	Inner Zone-Radius (feet)	Vigor	Structure	Viability	Class	Grave	Comments							
1	1*	Big leaf maple	<i>Acer macrophyllum</i>	28.2	85	60	12	26	12	18	28	14	Fair	Fair	Regulated	No	Bolt decay to 14", dead wood, OK in NGPA.					
2	2	Big leaf maple	<i>Acer macrophyllum</i>	17.8	90	40	14	20	0	18	18	9	Fair	Fair	Regulated	No	OK in NGPA.					
3	3	Big leaf maple	<i>Acer macrophyllum</i>	26.0	90	30	23	12	12	20	10	10	Fair	Poor	Regulated	No	Bolt decay to 14", OK in NGPA.					
4	4	Big leaf maple	<i>Acer macrophyllum</i>	16.9	75	30	12	14	14	11	5	5	Good	Fair	Regulated	No	OK in NGPA.					
5	5	Big leaf maple	<i>Acer macrophyllum</i>	14.7	80	30	10	24	12	15	7	7	Good	Poor	Regulated	No	Bolt decay to 14", OK in NGPA.					
6	6	Big leaf maple	<i>Acer macrophyllum</i>	8.3	40	0	0	0	0	8	4	0	0	0	0	0	0	Not Regulated	No	Dead, OK in NGPA.		
7	7	Big leaf maple	<i>Acer macrophyllum</i>	11.1	40	20	0	14	14	11	6	6	Good	Fair	Regulated	No	Crowded					
8	8	Alder	<i>Alnus rubra</i>	7.8	80	50	22	0	16	0	8	4	0	0	0	0	0	Good	Fair	Not Regulated	No	
9	9	Laurel	<i>Prunus laurocerasus</i>	7.5	25	80	18	0	6	6	8	4	0	0	0	0	0	Good	Poor	Not Regulated	No	
10	10*	Laurel	<i>Prunus laurocerasus</i>	8.4	30	90	8	12	6	12	8	4	0	0	0	0	0	Good	Good	Not Regulated	No	
11	11	Laurel	<i>Prunus laurocerasus</i>	6.5	25	80	8	7	5	7	7	3	0	0	0	0	0	Good	Good	Not Regulated	No	
12	12	Hawthorne	<i>Crataegus monogyna</i>	15.1	50	80	16	14	14	14	15	8	0	0	0	0	0	Good	Good	Not Regulated	No	
13	13	Hawthorne	<i>Crataegus monogyna</i>	6.9	30	80	0	14	8	6	3	0	0	0	0	0	0	Good	Good	Not Regulated	No	
14	14	Purple leaf plum	<i>Prunus coccinea</i>	8.6	16	80	6	13	10	10	9	4	0	0	0	0	0	Good	Good	Not Regulated	No	
15	15	Hawthorne	<i>Crataegus monogyna</i>	6.1	25	90	6	10	8	8	6	3	0	0	0	0	0	Good	Good	Not Regulated	No	
16	16	Norway spruce	<i>Picea abies</i>	12	50	90	7	7	7	12	6	0	0	0	0	0	0	Good	Good	Not Regulated	No	
17	17	Birch	<i>Betula papyrifera</i>	22.1	60	70	12	16	16	22	11	0	0	0	0	0	0	Good	Fair	Regulated	No	Topped at 30' and recovered from Brown Birch Blight.
18	18	Apple	<i>Malus sp.</i>	9.8	16	60	10	10	10	10	5	0	0	0	0	0	0	Good	Good	Not Regulated	No	
19	19	Birch	<i>Betula papyrifera</i>	22.4	60	70	19	19	19	22	11	0	0	0	0	0	0	Good	Fair	Regulated	Exceptional	Topped at 30' and recovered from Brown Birch Blight.
Off Site																						
A		Big leaf maple	<i>Acer macrophyllum</i>	23.2	85	70	18	30	16	12	23	12	Good	Fair	Regulated	No	Two codominant splitting, OK in NGPA.					
B		Red alder	<i>Alnus rubra</i>	19.2	90	60	18	18	14	16	19	10	Good	Good	Regulated	No						
C		Red alder	<i>Alnus rubra</i>	16.1	70	40	18	16	16	16	8	8	Fair	Fair	Regulated	No						
D		Laurel	<i>Prunus laurocerasus</i>	8.6	30	80	8	12	10	10	9	4	0	0	0	0	0	Good	Good	Not Regulated	No	
E		Asiatic pine	<i>Pinus nigra</i>	25.7	70	80	10	20	16	24	26	13	Good	Fair	Regulated	No	Two codominants at 17'					
F		Asiatic pine	<i>Pinus nigra</i>	22.1	70	80	18	10	16	24	22	11	Good	Fair	Regulated	No	Two codominants at 17'					
G		Big leaf maple	<i>Acer macrophyllum</i>	12.5	45	60	8	16	6	13	6	0	0	0	0	0	0	Good	Good	Regulated	No	
H		Mountain Hemlock	<i>Tsuga mertensiana</i>	6.0	18	100	4	4	4	6	3	0	0	0	0	0	0	Good	Good	Not Regulated	No	

CONTACTS
 ARCHITECT/DESIGNER: ALDOR LLC
 26809 199TH AVE SE
 COVINGTON WA, 98042
 CONTACT: DORIN CORNITEL / DESIGNER
 (206)-747-8421
 ALDOR.ARCHITECTURE.CONSTRUCTION@OUTLOOK.COM

JURISDICTION
 CITY OF MERCER ISLAND - RESIDENTIAL BUILD PERMITS
 9611 SE 36TH STREET
 MERCER ISLAND, WA 98040
 (206)-275-7605

GENERAL NOTES
 1. CALL LOCAL UTILITIES BEFORE YOU DIG
 2. CONTRACTOR IS RESPONSIBLE FOR POSTING ALL PERMITS ON SITE.

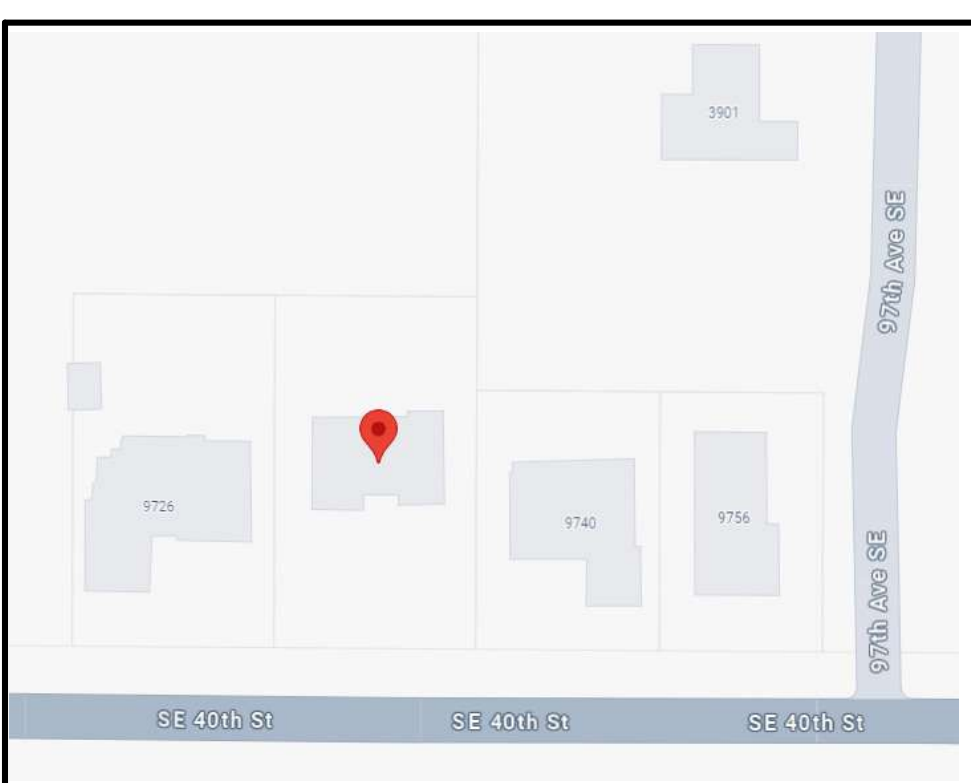
SITE/BUILDING DATA

OWNER: RUSSELL PALANCHUCK
 9734 SE 40TH ST 98040
 PARCEL: 265550-0176
 PROPERTY ZONING: R-8.4

LOT SIZE: 12,992 SQ. FT. OR 0.30 ACRES
 PLAT LOT 18
 SEWER/SEPTIC: PUBLIC
 WATER: PUBLIC
 SETBACKS: FRONT: 20'
 SIDES: 3' MIN. ON ONE SIDE, WITH THE TWO SIDES TOTALING 15'
 REAR: 25'

BUILDING SQ. FT.

* MAIN FLOOR	2,179 SQ. FT.
* UPPER LOOR	2,264 SQ. FT.
* GARAGE	556 SQ. FT.



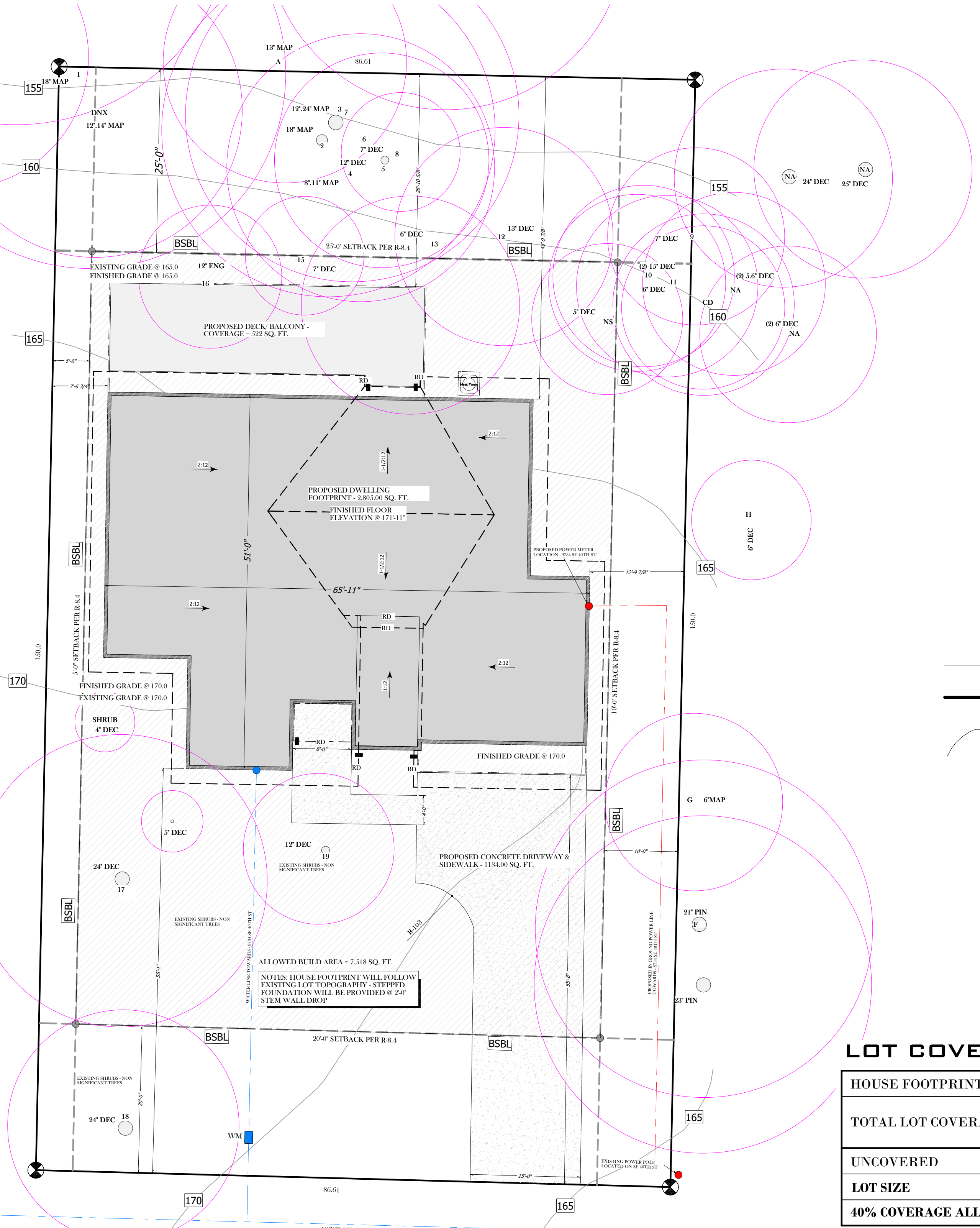
VICINITY MAP

SE 40TH ST
 TAX LOT #265550-0176
 LOT1 - 12,992 SQ. FT.

PROPOSED SITE PLAN
 SCALE 1" = 10'



NOTE: NO TREES TO BE REMOVED



LEGEND

- NORTH ARROW
- BSBL BOUNDARIES
- LOT BOUNDARIES
- RD - ROOF DRAINAGE LINE
- PROPOSED DOWNSPOUTS
- BUILDING ENVELOPE
- EXISTING TREES
- WATER MAIN LINE
- GAS LINE
- POWER MAIN LINE
- BSBL - BUILDING SET BACK LINE
- 165 - TOPOGRAPHICAL CONTOUR LINES
- WATER METER BOX
- PROPOSED DECK STRUCTURE
- PROPOSED SFR - DWELLING
- PROPOSED CONCRETE DRIVEWAY/ SIDEWALK
- BUILD-ABLE AREA

LOT COVERAGE CALCULATIONS

HOUSE FOOTPRINT	2,805 SQ. FT.	22.0%
TOTAL LOT COVERAGE	2,805 SQ. FT.	22.0%
UNCOVERED	7,159 SQ. FT.	78.0%
LOT SIZE	12,992 SQ. FT.	100%
40% COVERAGE ALLOWABLE	5,196.8 SQ. FT.	40%

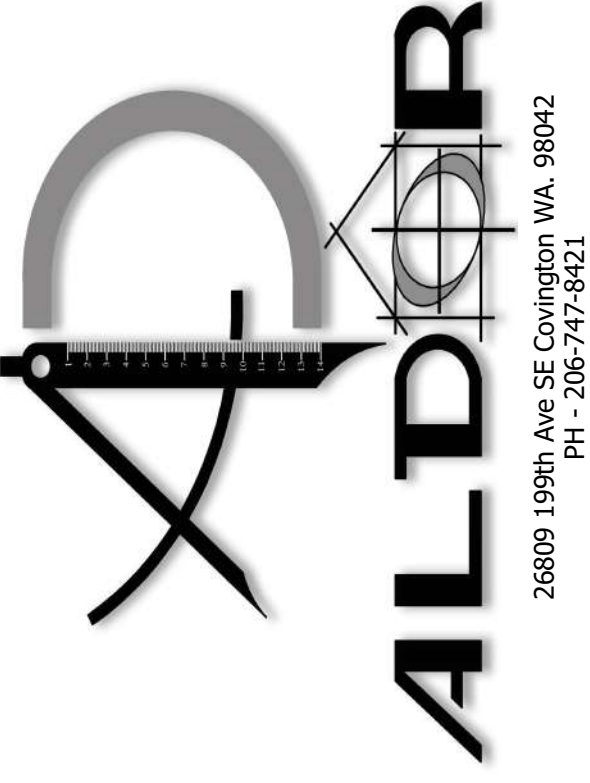
NOTE: TOTAL COVERAGE IS UNDER 40%

IMPERVIOUS AREA/ HARDSCAPE CALCS.

HOUSE FOOTPRINT	2,805 SQ. FT.	22.0%
CONCRETE DRIVEWAY AND SIDEWALK	1,134 SQ. FT.	9.0%
PROPOSED DECK/BALCONY	552 SQ. FT.	.05%
LOT SIZE	12,992 SQ. FT.	100%
IMPERVIOUS AREA IN %	4,491 SQ. FT.	31.05%

GFA CALCULATIONS

BUILDING AREA	
MAIN FLOOR AREA	2,200 SQ. FT.
UPPER FLOOR AREA	2,264 SQ. FT.
ATTACHED 2 CAR GARAGE AREA	535 SQ. FT.
TOTAL GFA	4,999 SQ. FT.



THESE PLANS HAVE BEEN PREPARED BY ALDOR LLC AND RELEASED BY ALDOR LLC AND ARE TO BE USED ONLY FOR THE PROJECT IDENTIFIED HEREIN. ANY OTHER USE OF THESE PLANS WITHOUT THE WRITTEN PERMISSION OF ALDOR LLC IS STRICTLY FORBIDDEN.

THESE PLANS WERE EXCLUSIVELY DESIGNED FOR
RUSSELL PALANCHUCK
 9734 SE 40TH ST
 MERCER ISLAND, WA 98040
 PARCEL # - 265550-0176

HOME OWNER / GENERAL CONTRACTOR SHALL VERIFY ALL LOCAL AND STATE REGULATORY REQUIREMENTS, BUILDING CODES, AND GRADING REQUIREMENTS. DESIGNER RESERVES THE RIGHT TO MODIFY THESE PLANS AT ANY TIME WITHOUT NOTICE TO THE HOMEOWNER. SUBCONTRACTORS SHALL COORDINATE CLOSELY WITH THE HOMEOWNER PRIOR TO PROCEEDING WITH THE LAYOUT OF THE PROJECT. CONTRACTOR SHALL VERIFY ALL LOCAL AND STATE REGULATORY REQUIREMENTS, BUILDING CODES, AND GRADING REQUIREMENTS. THESE PLANS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO IDENTIFY THE MOST SIGNIFICANT ELEMENTS OF THE PROJECT. CONTRACTOR SHALL VERIFY ALL LOCAL AND STATE REGULATORY REQUIREMENTS, BUILDING CODES, AND GRADING REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL LOCAL AND STATE REGULATORY REQUIREMENTS, BUILDING CODES, AND GRADING REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL LOCAL AND STATE REGULATORY REQUIREMENTS, BUILDING CODES, AND GRADING REQUIREMENTS.

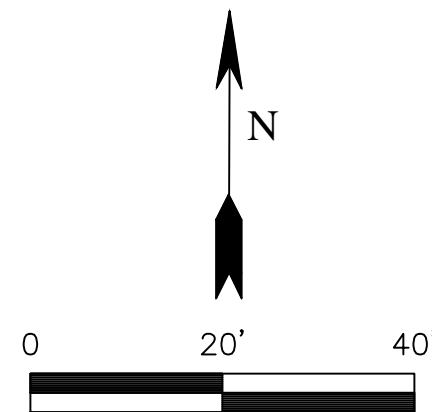
Sheet Description	SITE PLAN
Plan Name	9734 SE 40TH ST 98040

THIS SET OF PLANS IS LICENSED FOR ONE TIME USE



VICINITY MAP

NTS



SITE PLAN

A PORTION OF SECTION 07, TOWNSHIP 24, RANGE 05E, W.M.
MERCER ISLAND, KING COUNTY, WA

PROJECT INFORMATION

OWNER/APPLICANT:
RUSSELL PALANCHUK

PROJECT ADDRESS:
9734 SE 40TH ST
MERCER ISLAND, WA 98040

PARCEL #:
2655500176

PARCEL AREA:
0.30 ACRES

ZONING:
R-8.4

GOODMAN ENGINEERING, PLLC

PO BOX 234
SPANGLE, WA 98031
(253) 579-4839

PROJECT SUMMARY:

TOTAL SITE AREA = 12,992 SF
EXIST. DRIVEWAY (TO BE REMOVED) = 2,246 SF
EXIST. SFR (TO BE REMOVED) = 1,300 SF
EXIST. CONC. PATIO (TO BE REMOVED) = 420 SF
TOTAL EXISTING IMPERVIOUS SURFACE = 3,966 SF
PROPOSED SFR ROOF AREA = 3,484 SF
PROPOSED DRIVEWAY = 1,404 SF
PROPOSED UNCOVERED CONC. WALKWAY = 78 SF
TOTAL PROPOSED IMPERVIOUS SURFACE = 4,966 SF

VERTICAL DATUM

NAVD 88

LEGAL DESCRIPTION

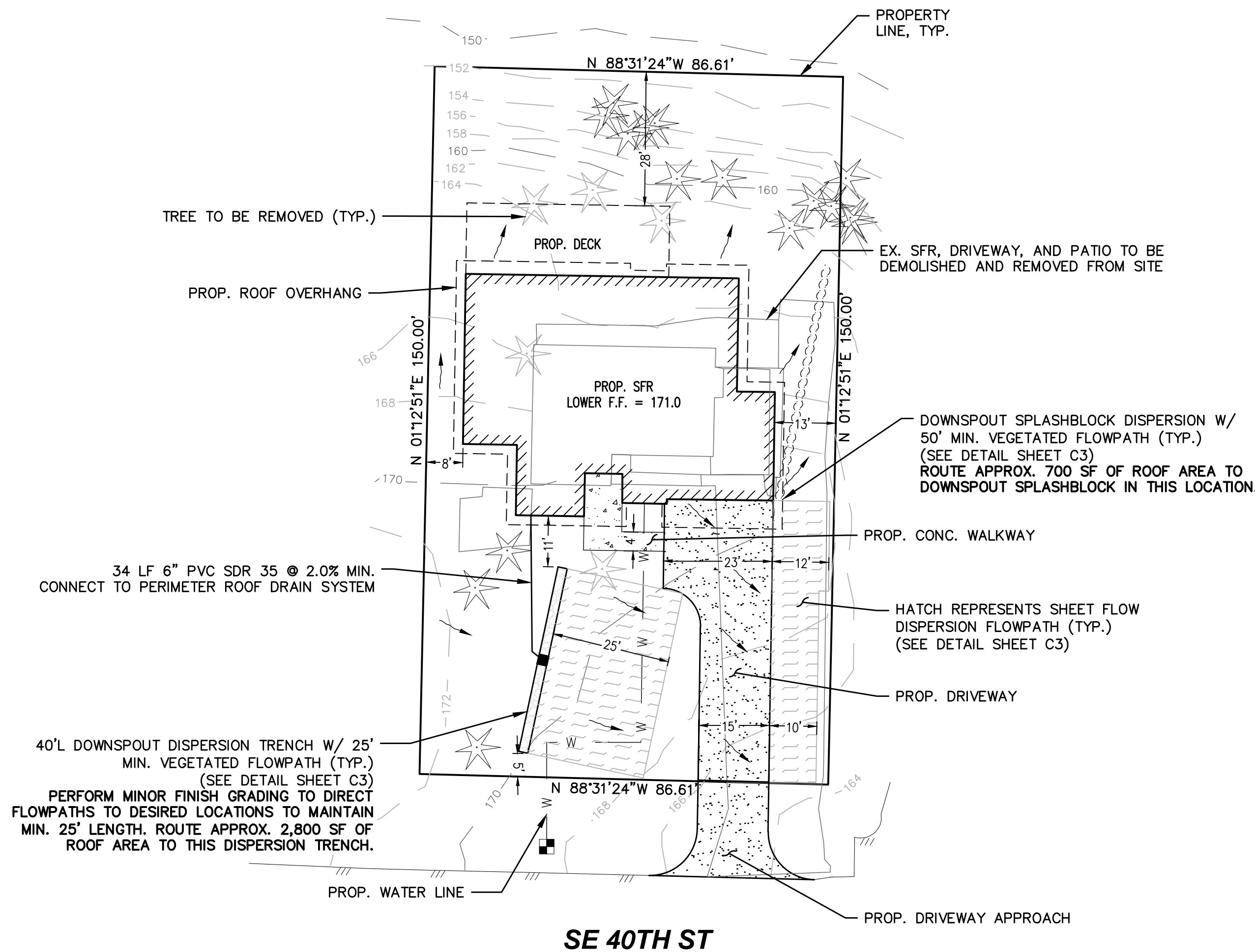
THE EAST HALF OF THE SOUTH 150 FEET OF LOT 18 IN BLOCK 1 OF FRUITLAND ACRES TO THE CITY OF SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 12 OF PLATS ON PAGE 33 IN KING COUNTY, WASHINGTON

GENERAL CIVIL NOTES:

- BURIED UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE APPLICANT SHALL HAVE THE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES, PUBLIC OR PRIVATE, AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED PLANS ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THE CONTRACTOR SHALL MAINTAIN AND PROVIDE THE PROJECT ENGINEER WITH RED-LINED AS-BUILTS IN SUPPORT OF PROJECT RECORD DRAWINGS AT THE COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL APPROPRIATE UTILITY PURVEYORS INVOLVED PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
- THESE PLANS ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK THAT IS REQUIRED. THE CONTRACTOR SHALL VERIFY THE SITE CONDITIONS AND FACTORS AFFECTING THE WORK TO BE COMPLETED.
- SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLIED WITH AS SET FORTH BY OSHA.
- THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE APPROVALS AND PERMITS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION TO CONFIRM INSPECTION, TESTING AND CERTIFICATION REQUIREMENTS.
- PERIMETER ROOF DRAINS SHALL BE 4-INCH SCH. 40 PVC UNLESS NOTED OTHERWISE IN THE DESIGN.

FOOTING DRAIN NOTE

INSTALL FOOTING DRAINS AND DRAIN TO DAYLIGHT. FOOTING DRAINS SHALL NOT CONNECT TO THE PERIMETER ROOF DRAIN SYSTEM. FOOTINGS DRAINS SHALL BE 4-INCH SCH. 40 PVC UNLESS NOTED OTHERWISE IN THE DESIGN.



EXISTING		PROPOSED	
---	-500-	---	500
---	-498-	---	498
---	PROPERTY BOUNDARY	---	PROPERTY BOUNDARY
---	BUILDING FOUNDATION	---	BUILDING FOUNDATION
---	BUILDING ROOF	---	BUILDING ROOF
---	DRIVEWAY	---	DRIVEWAY
---	SANITARY SEWER	---	SANITARY SEWER
---	WATER LINE	---	WATER LINE
---	OVERHEAD POWER	---	OVERHEAD POWER
---	BURIED POWER	---	BURIED POWER
---	COMMUNICATIONS	---	COMMUNICATIONS
---	FENCE	---	FENCE
■	WATER METER	■	WATER METER
×	WATER VALVE	×	WATER VALVE
○	FIRE HYDRANT	○	FIRE HYDRANT
□	CATCH BASIN	□	CATCH BASIN
⊕	STORM MANHOLE	⊕	STORM MANHOLE
○	SANITARY SEWER MANHOLE	○	SANITARY SEWER MANHOLE
○	POWER POLE	○	POWER POLE
△	TRANSFORMER	△	TRANSFORMER
⊙	SURVEY MONUMENT	⊙	SURVEY MONUMENT
⊙	SURVEY CONTROL POINT	⊙	SURVEY CONTROL POINT
→	FLOW PATH	→	FLOW PATH
▲	SOIL LOG	▲	SOIL LOG
○	SIGN	○	SIGN
---	FENCE	---	FENCE

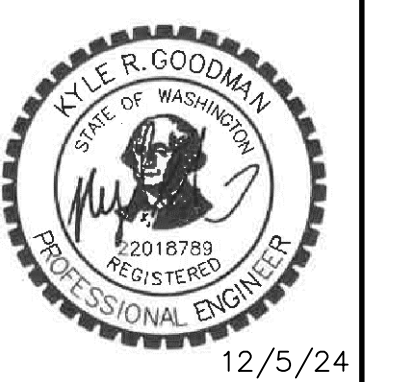
SHEET INDEX

- C1..... SITE PLAN
- C2..... TESC PLAN
- C3..... DETAILS



BOUNDARY AND TOPOGRAPHY ARE BASED ON MAPPING PROVIDED TO GOODMAN ENGINEERING, PLLC AND OBSERVATIONS MADE IN THE FIELD. THE INFORMATION SHOWN DOES NOT CONSTITUTE A FIELD SURVEY BY GOODMAN ENGINEERING, PLLC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER TO HAVE ALL IMPROVEMENT FIELD VERIFIED PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF DISCREPANCIES ARE FOUND.

SCALE
HORIZ. 1"=20'
VERT. N/A



DATE	REVISIONS
	1
	2
	3
	4
	5
	6
	7
	8

SITE PLAN
RUSSELL PALANCHUK
9734 SE 40TH ST
MERCER ISLAND, WA, 98040

SHEET TITLE

C1

SHEET NO.

1 OF 3

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLAN

A PORTION OF SECTION 07, TOWNSHIP 24, RANGE 05E, W.M.
MERCER ISLAND, KING COUNTY, WA

SOIL AMENDMENT NOTES:

SOIL RETENTION

RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING, REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

SOIL QUALITY

ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.

2. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.

3. USE COMPOST AND OTHER MATERIALS THAT MEET THE FOLLOWING ORGANIC CONTENT REQUIREMENTS:

A. THE ORGANIC CONTENT FOR 'PRE-APPROVED' AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BMP 17.30: BIORETENTION WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE.

THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.

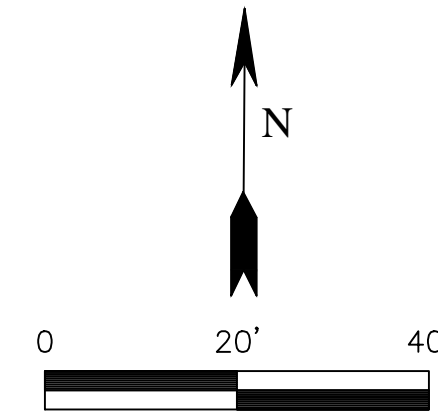
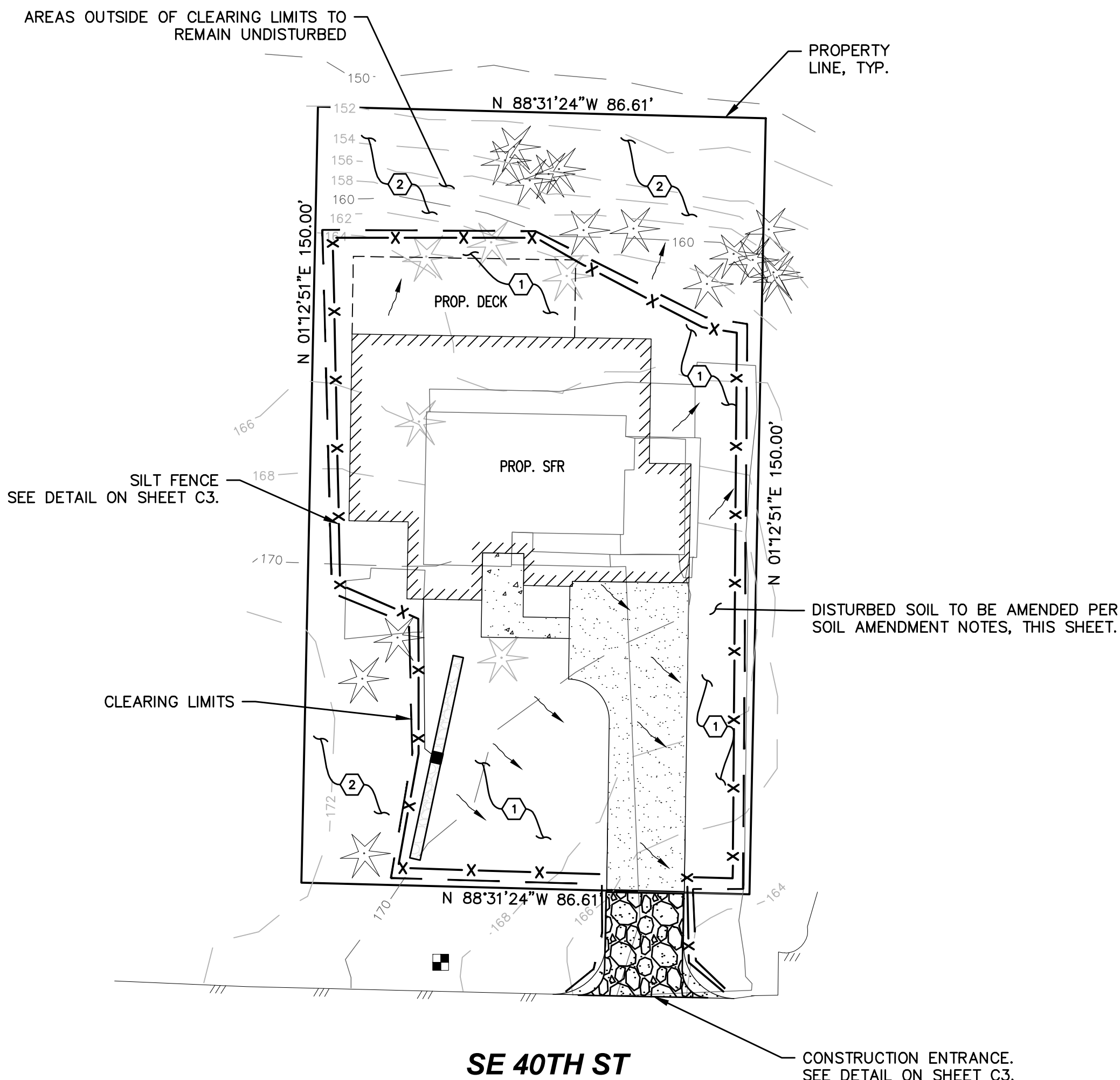
B. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TEST-ING PARAMETERS, IN WAC 173-350-220.

THE RESULTING SOIL SHOULD BE CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

IMPLEMENTATION OPTIONS

THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:

1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
2. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT 'PRE-APPROVED' RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
3. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT 'PRE-APPROVED' RATE OR AT A CUSTOM CALCULATED RATE.
4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS. MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.



KEY NOTE LEGEND

- ① SOIL AMENDMENT AREA
- ② SOIL TO REMAIN UNDISTURBED

LEGEND

EXISTING		PROPOSED
— 500 —	2' CONTOURS MAJOR	— 500 —
— 498 —	2' CONTOURS MINOR	— 498 —
	FLOW PATH	←
	SILT FENCE	— X — X —
	CLEARING LIMITS	— — —

CONSTRUCTION SEQUENCE:

1. MARK CLEARING/GRADING LIMITS.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
3. INSTALL SILT FENCE AND PERIMETER RUNOFF BMP.
4. INSTALL INLET PROTECTION.
5. PERFORM CLEARING AND GRADING ACTIVITIES.
6. CONSTRUCT SITE IMPROVEMENTS.
7. COMPLETE FINAL GRADING, STABILIZATION, AND LANDSCAPING.
8. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL BMPS.
9. MONITOR AND MAINTAIN PERMANENT EROSION PROTECTION UNTIL FULLY ESTABLISHED.

EROSION CONTROL NOTES:

1. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC).
2. THE IMPLEMENTATION OF THESE EROSION AND SEDIMENT CONTROL PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE EROSION AND SEDIMENT CONTROL FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETE AND APPROVED, AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE EROSION AND SEDIMENT CONTROL FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAY, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE EROSION AND SEDIMENT CONTROL FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE UPGRADED AS NEEDED FOR EXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
6. THE EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE EROSION AND SEDIMENT CONTROL FACILITIES ON INACTIVE SITE SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
8. AT NO TIME SHALL MORE THAN 1-FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.



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GOODMAN ENGINEERING, PLLC

PO BOX 234
SPANGLE, WA 99031
(253) 579-4839

SCALE

HORIZ. 1"=20'
VERT. N/A



12/5/24

DATE

REVISIONS

1 2 3 4 5 6 7 8

TESC PLAN
RUSSELL PALANCHUK
9734 SE 40TH ST
MERCER ISLAND, WA, 98040

SHEET TITLE

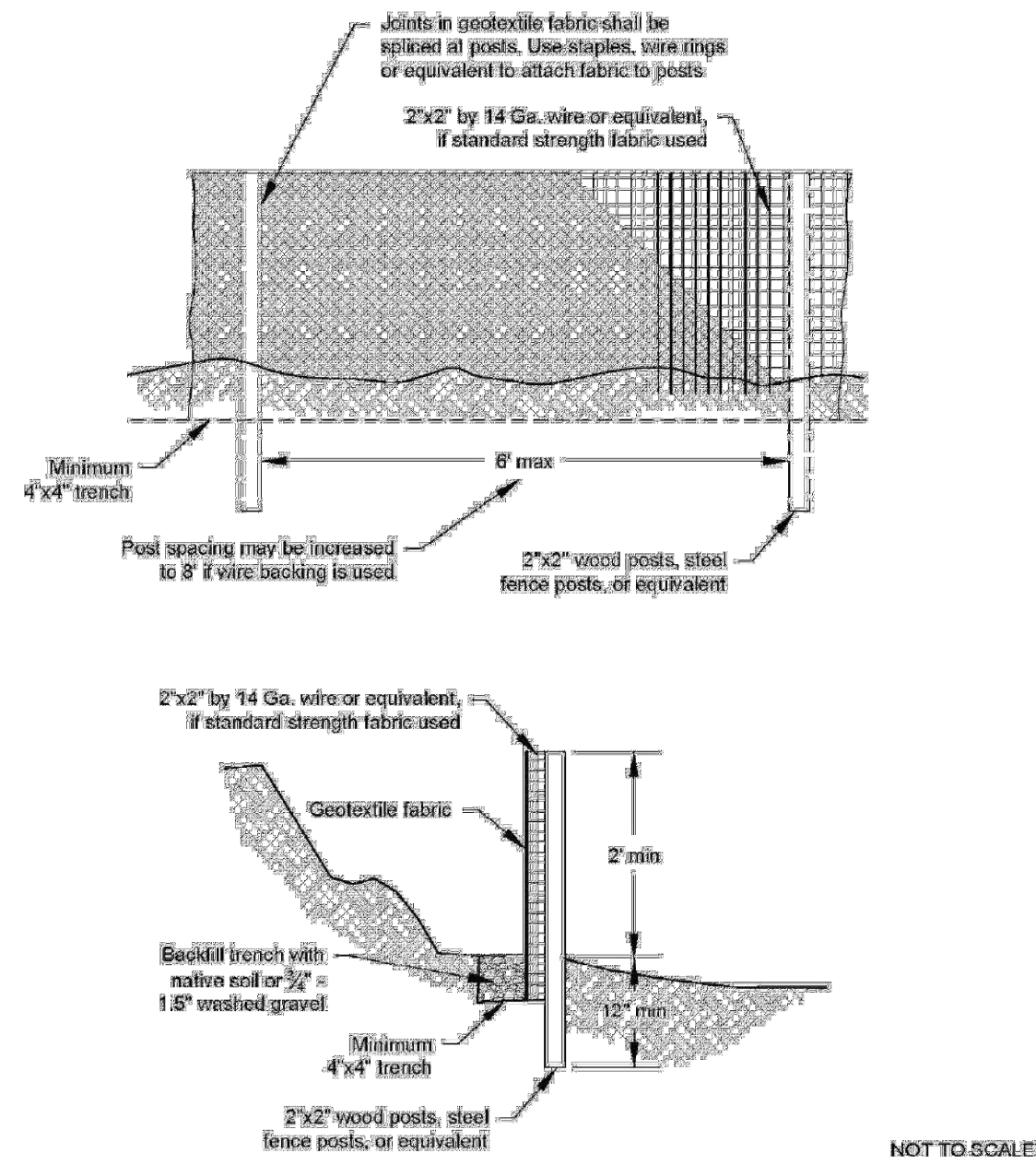
C2

SHEET NO.

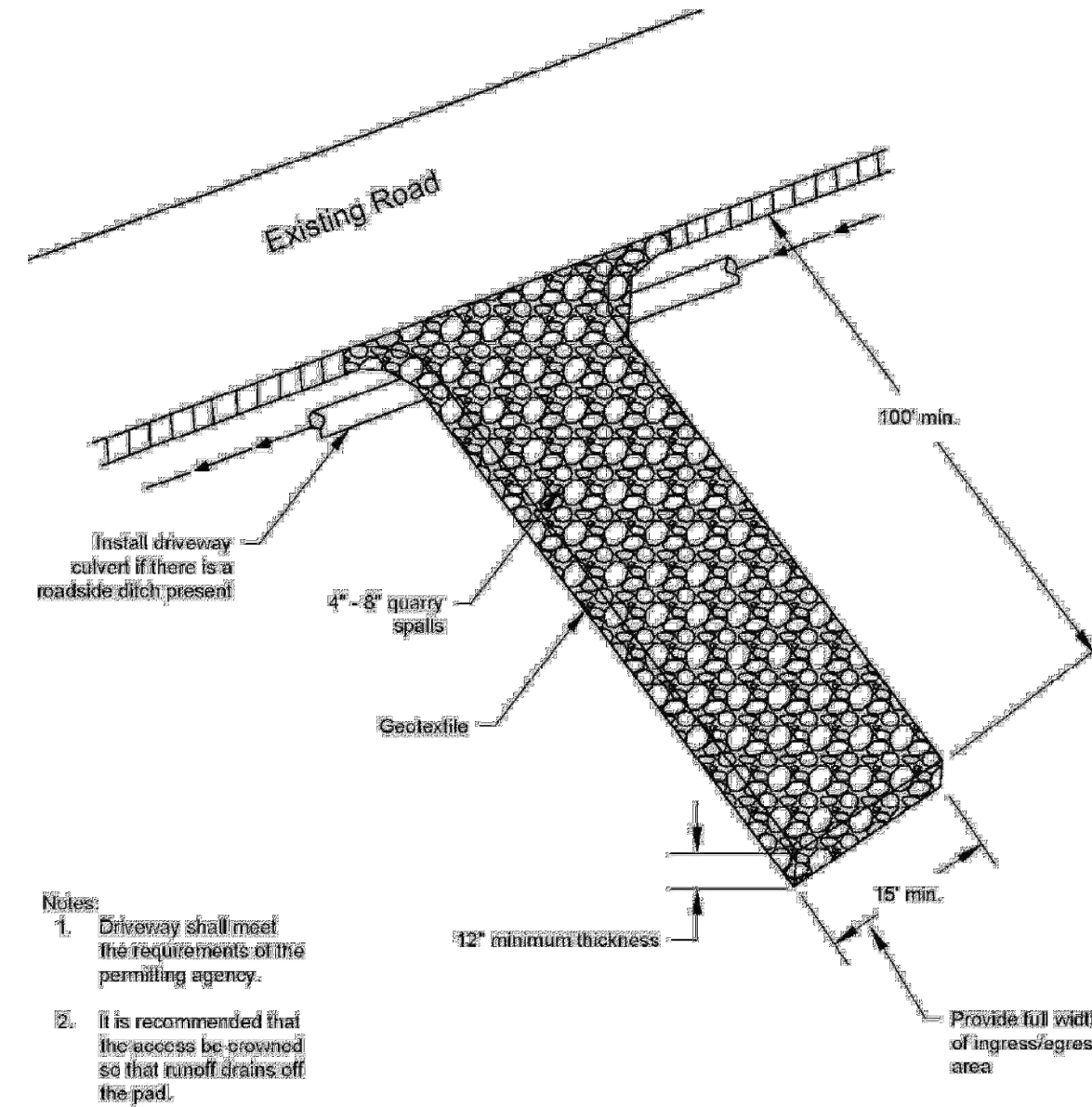
2 OF 3

DETAILS AND NOTES

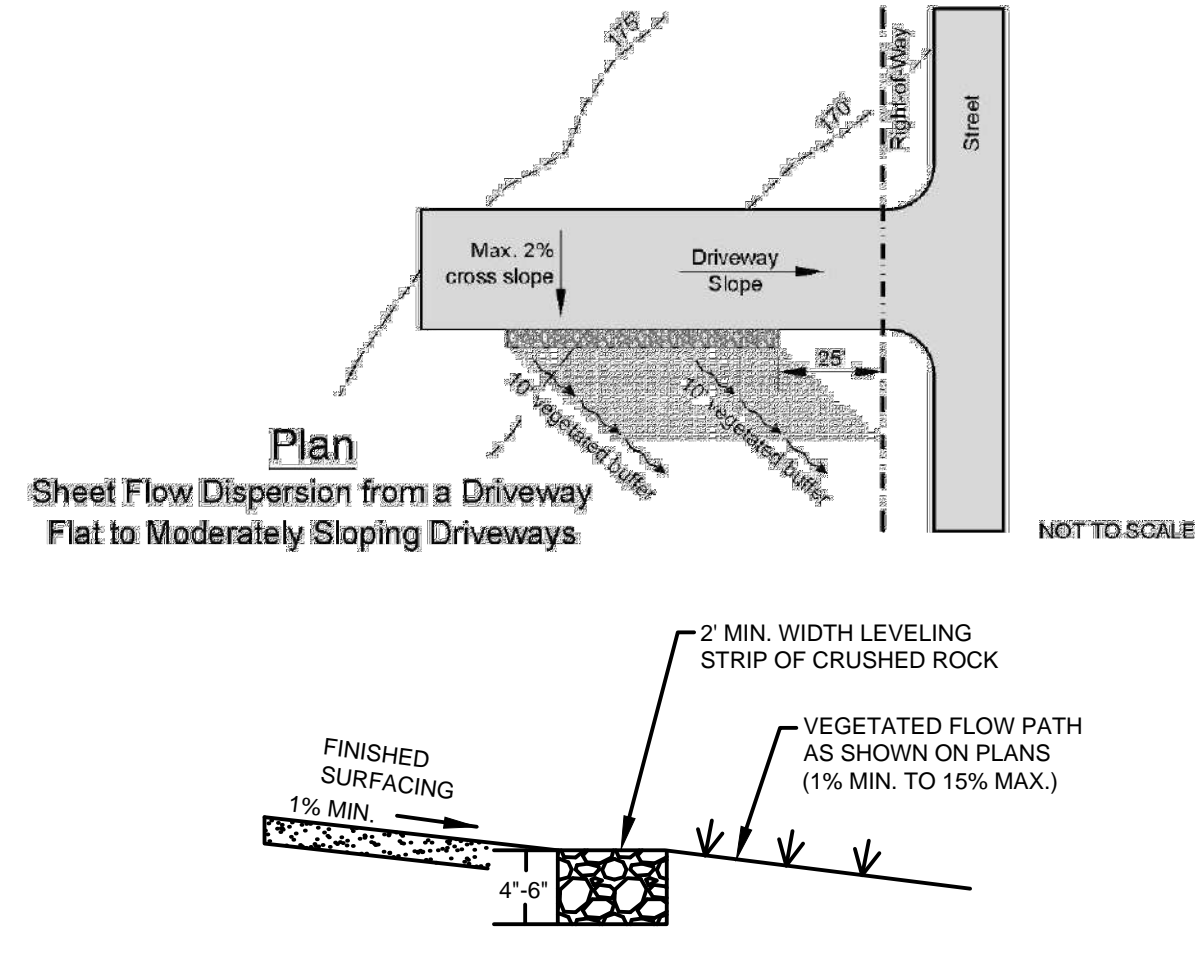
A PORTION OF SECTION 07, TOWNSHIP 24, RANGE 05E, W.M.
MERCER ISLAND, KING COUNTY, WA



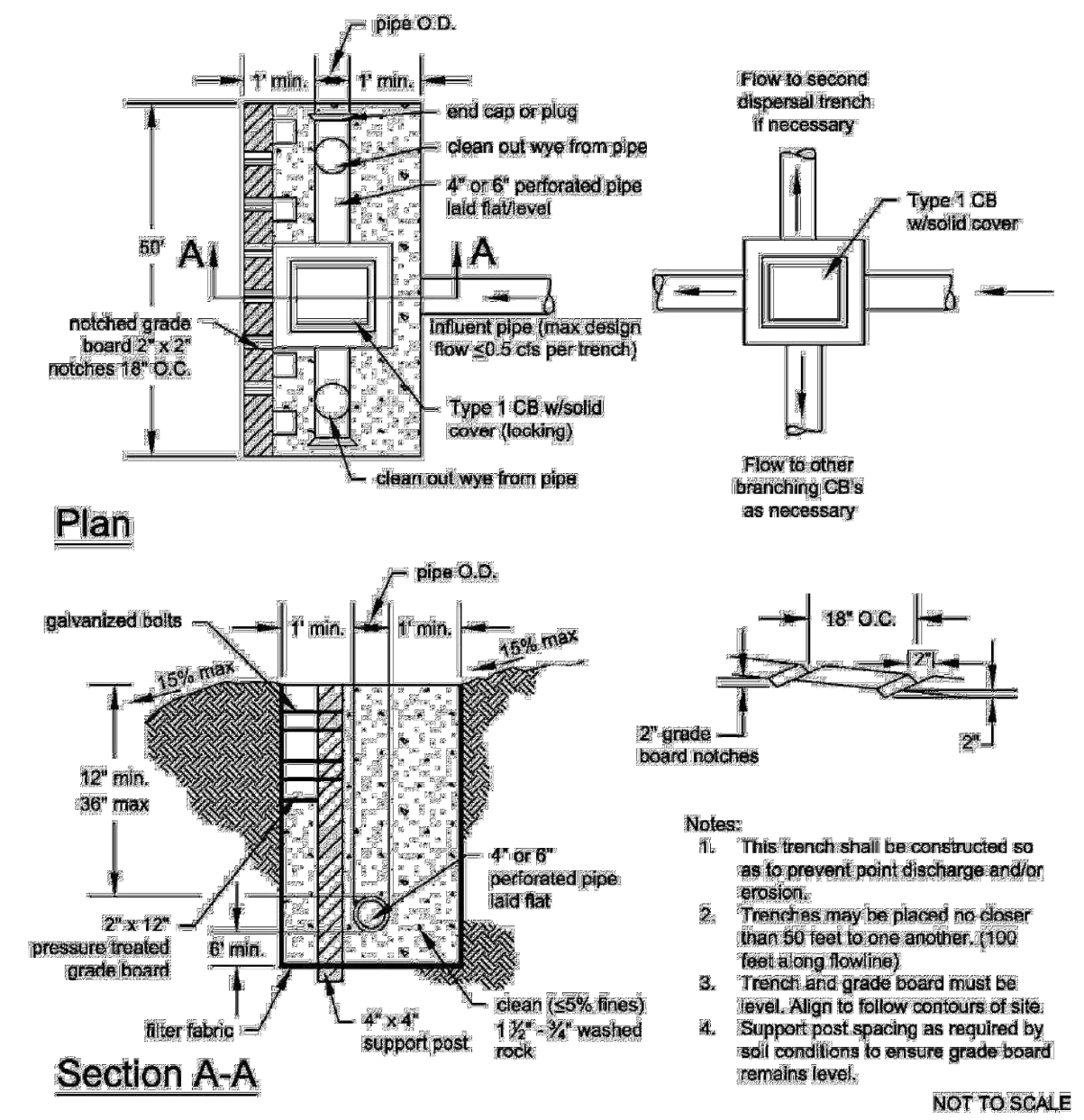
SILT FENCE
NOT TO SCALE



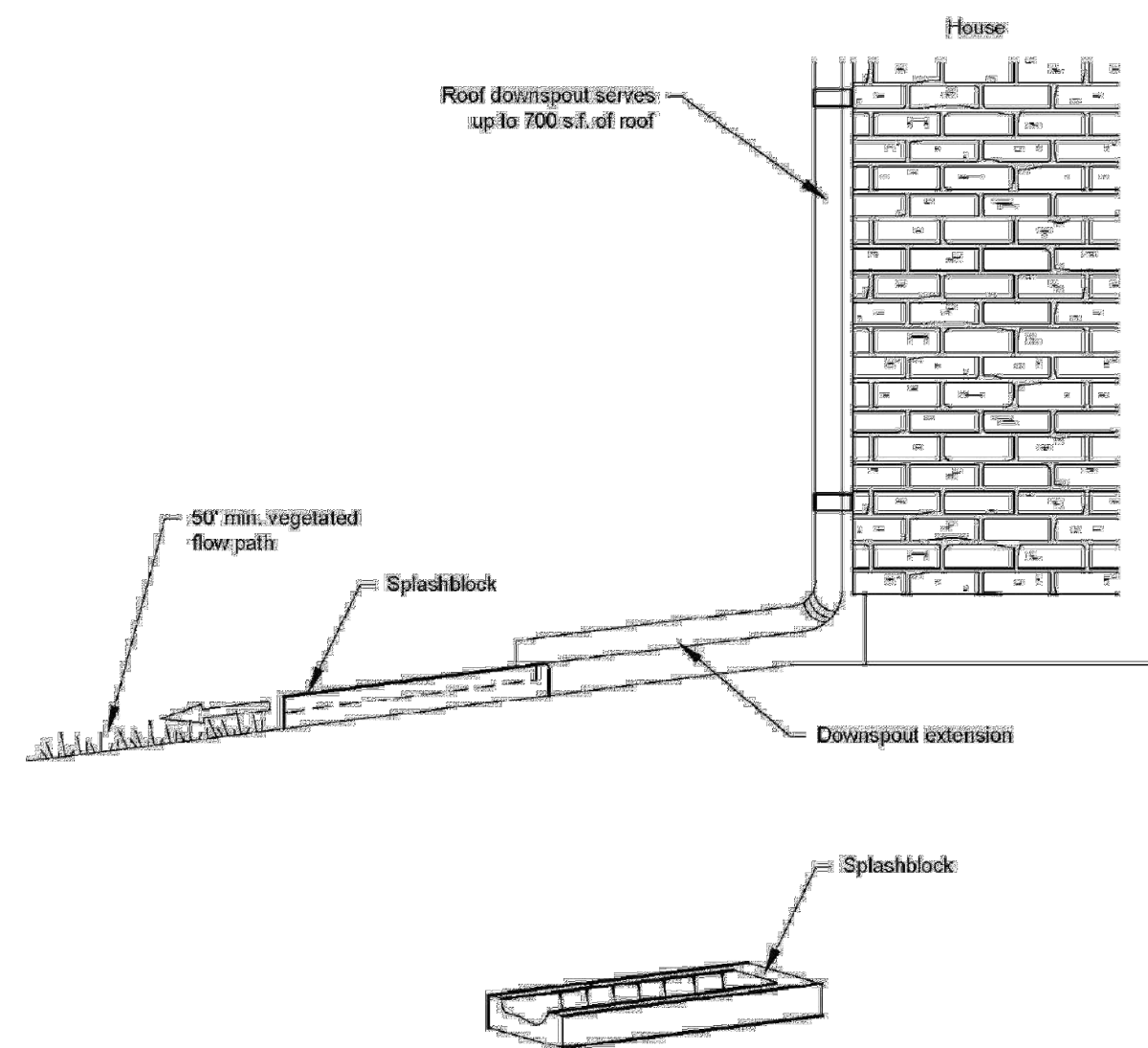
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



SHEET FLOW DISPERSION
NOT TO SCALE



DOWNSPOUT DISPERSION TRENCH
NOT TO SCALE



Source: King County Department of Natural Resources, 1998

NOT TO SCALE

DOWNSPOUT SPLASHBLOCK DISPERSION

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PO BOX 234
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(253) 579-4839

SCALE
HORIZ. N/A
VERT. N/A



REVISIONS	DATE
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DETAILS
RUSSELL PALANCHUK
9734 SE 40TH ST
MERCER ISLAND, WA, 98040

SHEET TITLE

C3

SHEET NO.

3 OF 3

