

# PIHA RESIDENCE

## 3745 77th Ave SE - MERCER ISLAND, WA.

### GENERAL INFORMATION APPLIES FULL SET



7525 SE 24th St., 487  
Mercer Island, WA 98040  
425.266.9100

## FLOOR PLAN GENERAL NOTES

### GENERAL

- A. ALL ANGLED WALLS (OTHER THAN 90°) SHALL BE CONSTRUCTED AS NOTED BY ANGLE (DEGREES) CALLOUT OR CONFIGURED AS DIMENSIONED. (UNO)
- B. ALL DIMENSIONS AT WALLS ARE TO THE FACE OF FRAMING STUDS.
- C. ALL EXTERIOR WALLS ENCLOSING CONDITIONED SPACE SHALL BE 2x6 STUDS AT 16" OC, and INTERIOR WALLS TO BE 2x4 STUDS AT 16" OC, per IRC, R602.3.2 (UNO).
- D. ALL DIMENSIONS AT WINDOWS ARE TO THE CENTERLINE
- E. WINDOW SIZES NOTED ON PLANS ARE NOMINAL SO CONTRACTOR MUST VERIFY EXACT ROUGH OPENINGS PRIOR TO FRAMING. WINDOW AND DOOR HEAD HEIGHTS SHOULD BE COORDINATED SO THAT ALL WINDOW AND DOOR TRIMS ALIGN.
- F. PROVIDE WEATHER PROTECTION SYSTEM w/WATER-RESISTIVE BARRIERS IN COMBINATION w/FLASHINGS AT EXT. WALLS, OPENINGS, PROJECTIONS, PENETRATIONS and INTERSECTIONS TO LOCK OUT ALL MOISTURE per IRC, R703.1-703.4
- G. TILE INSTALLATION SHALL COMPLY w/APPLICABLE SECTIONS OF THE TILE COUNCIL OF AMERICA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" and ITS REFERENCED STANDARDS including IRC, R702.4.1
- H. ALL COUNTERS, TUB DECKS & WALLS AT TUBS & SHOWERS SHALL HAVE SMOOTH, HARD, NON-ABSORBENT SURFACE o/CEMENTITIOUS BACKER BOARD and MOISTURE RESISTANT UNDERLAYMENT per IRC, R702.4.2 NONABSORBENT AT TUB & SHOWER WALLS SHALL BE TO A HEIGHT OF +12" MIN. ABOVE DRAIN INLET per IRC, R307.2
- I. ALL SHOWERS AND ALL SHOWER RECEPTORS SHALL COMPLY WITH THE 2018 UNIFORM PLUMBING CODE.
- J. CALCULATIONS and DETAILS FOR MOUNTING HEIGHTS & CONNECTION OF METAL GUARDRAILS (IF USED) SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY RAILING FABRICATOR PRIOR TO INSTALLATION FOR COMPLIANCE w/IRC R311 & R312
- K. ALL REQUIREMENTS FOR BUILDING ENVELOPE TO COMPLY WITH THE 2018 WASHINGTON STATE ENERGY CODE (WSEC). SEE REGD ENERGY CREDITS ON THIS SHEET ALONG w/ ENI FOR PRESCRIPTIVE REQUIREMENTS and COMPLIANCE NOTES FOR SINGLE FAMILY RESIDENTIAL IN CLIMATE ZONE 5 and MARINE 4.
- L. WSEC COMPLIANCE CERTIFICATE REQUIRED WITHIN 3' OF ELECTRICAL PANEL.
- M. EXHAUST FANS LARGER THAN 50cfm, MAY BE CONNECTED TO 4" SMOOTH WALL VENT PIPE IF RUNS DO NOT EXCEED 20' IN LENGTH, THE MINIMUM SIZE OF FLEX DUCT IS 5" DIAMETER WITH MAXIMUM RUN OF 15'.
- N. COMBUSTION AIR REQUIRED FOR ALL FUEL BURNING APPLIANCES. ALL INTIION SOURCES TO BE MIN. 18" ABV. GARAGE FLOOR per IRC, M1307.3
- O. PROVIDE FIREBLOCKING TO CUT OFF DRAFT OPENINGS AT LOCATIONS w/MATERIALS per IRC, R302.11 PROVIDE DRAFTSTOPPINS AT FLOOR/CEILING ASSEMBLIES per IRC, R302.12
- P. ALL WASTE PLUMBING DROPS TO BE ON INTERIOR WALLS or FURRED OUT EXTERIOR WALLS.
- Q. PROVIDE ACOUSTICAL PIPE WRAP AT ALL UPPER LEVEL WASTE LINES
- R. ALL OPENINGS MADE IN WALLS, FLOORS or CEILINGS FOR THE PASSAGE OF PIPES, STRAINER PLATES ON DRAIN INLETS, TUB WASTE OPENINGS TO CRAWLSPACE and METER BOXES TO COMPLY w/THE CODE REQUIREMENTS OF THE GOVERNING UPC.
- S. ENTRY STEPS SHALL HAVE SUFFICIENT GRADE BUILT UP AROUND THEM SO THE NUMBER OF STAIR RISERS DOES NOT EXCEED 3, w/MAX. RISER HEIGHT OF 7 1/8" - NOT REQUIRING A HANDRAIL per IRC, R311.7.8
- T. ALL EXTERIOR HOSE BIBS TO HAVE NON-REMOVABLE VACUUM BREAKERS, MUST BE FROSTPROOF and BE CAULKED and SECURED AT EXT. WALLS.
- U. INTERIOR CEILING HEIGHTS ARE AS FOLLOWS:
- |             |                 |
|-------------|-----------------|
| MAIN FLOOR  | 10'-0" (UNO)    |
| UPPER FLOOR | 9'-1 1/8" (UNO) |

### SAFETY GLAZING

SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS AS REQUIRED BY THIS SECTION SHALL HAVE MFG'S DESIGNATION w/TYPE, THICKNESS and SAFETY GLAZING STANDARD with WHICH IT COMPLIES MARKED BY PERMANENT MEANS THAT CANNOT BE REMOVED WITHOUT DESTROYING GLASS per IRC, R308.1

IRC, R308.4 REQUIRES THAT SAFETY GLAZING TO BE INSTALLED IN ALL HARARDOUS LOCATIONS per DEFINED REQUIREMENTS and EXCEPTIONS SPECIFIED IN IRC, R308.4.1 through R308.4.7

- GLAZING IN DOORS.
- GLAZING ADJACENT TO DOORS.
- GLAZING IN WINDOWS MEETING ALL (4) CONDITIONS LISTED.
- GLAZING IN GUARDS and RAILINGS
- GLAZING IN and NEAR NET SURFACES.
- GLAZING ADJACENT TO STAIRS and RAMPS
- GLAZING ADJACENT TO THE BOTTOM STAIR LANDING.

SKYLIGHTS and SLOPED GLAZING SHALL COMPLY WITH

THE MATERIALS and REQUIREMENTS OF IRC, R308.6.1 through R308.6.9

### EGRESS WINDOWS

WINDOWS PROVIDING EMERGENCY ESCAPE and RESCUE OPENINGS REQUIRED AT BASEMENTS, HABITABLE ATTIC and ALL SLEEPING ROOMS and SHALL OPEN DIRECTLY INTO A PUBLIC WAY or YARD TO SAME per IRC, R310.1

- WINDOW CANNOT REQUIRE KEYS, TOOLS or SPECIAL KNOWLEDGE TO OPEN per IRC, R310.1.1
- MUST HAVE AN OPENING AREA OF NOT LESS THAN 5.7 Sq.Ft. with 20" min. WIDTH and 24" min. HEIGHT per IRC, R310.2.1,2.1
- MUST HAVE A SILL HEIGHT OF NOT MORE THAN 44" ABV. FLOOR per IRC, R310.2.2
- GUARDS MUST BE PROVIDED AS WINDOW FALL PROTECTION AT LOW WINDOWS LOCATED GREATER THAN 72" ABV. FINISHED GRADE per IRC, R312.2

### STAIRS and HANDRAILS

STAIRWAYS PROVIDING EGRESS FROM HABITABLE LEVELS NOT PROVIDED w/EGRESS DOOR per IRC, R311.2 SHALL MEET THE REQUIREMENTS and EXCEPTIONS OF IRC, R311.1 through R311.7.4 INCLUDING:

- SHALL PROVIDE A MIN. CLEAR WIDTH OF 36" ABOVE HANDRAIL w/MAX. HANDRAIL PROJECTION INTO STAIRWAY OF 4 1/4" ON EITHER SIDE per R311.7.1
- SHALL PROVIDE A MIN. HEADROOM OF 6'-8" MEASURED VERTICALLY FROM THE NOSE OF TREADS or LANDINGS per R311.7.2
- SHALL NOT HAVE A VERTICAL RISE GREATER THAN 15" BTWN. FLOOR LEVELS or LANDINGS per R311.7.3
- SHALL MEET THE WALKING REQUIREMENTS AT KINDER TREADS per R311.7.4
- SHALL HAVE A MAX. RISER HEIGHT OF 7 1/8" and HAVE A MIN. TREAD DEPTH OF 10" - THE GREATEST DIMENSION OF ANY RISER or TREAD MUST NOT EXCEED THE SMALLEST DIMENSION BY MORE THAN 3/8". TREADS LESS THAN 11" SHALL MEET NOSING REQUIREMENTS. THE OPENINGS AT OPEN RISERS SHALL NOT PERMIT THE PASSAGE OF A 4" sphere per R311.7.5 through R311.7.5.4.
- LANDINGS AT TOP and BOTTOM OF STAIRS SHALL MEET THE REQUIREMENTS OF R311.7.6
- THE WALKING SURFACE OF TREADS and LANDINGS SHALL NOT BE SLOPED MORE THAN 2% PER R311.7.7
- HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS w/(4) or MORE RISERS. THE TOP OF HANDRAIL SHALL BE 34"-38" ABV. LINE CONNECTING NOSINGS. HAVE MIN. 1 1/2" SPACE BETWN. RAIL and WALL. HANDRAIL MUST RUN CONTINUOUS FOR FULL LENGTH OF EACH FLIGHT and MEET APPROVED GRIP-SIZE per IRC, R311.7.8
- SHALL BE PROVIDED w/ILLUMINATION per IRC, R303.7 at INTERIOR STAIRWAYS and R303.8 at EXTERIOR STAIRWAYS.

### GUARDS

GUARDS SHALL BE PROVIDED IN ACCORDANCE w/REQUIREMENTS and EXCEPTIONS OF IRC, R312.1 through R312.2 INCLUDING:

- ALONG OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS and LANDINGS LOCATED 30" or GREATER ABOVE ADJACENT FLOOR LEVEL per IRC, R312.1.1
- OPENINGS MUST PREVENT THE PASSAGE OF A 4" SPHERE or 4 3/8" AT OPEN SIDES OF STAIRS or 6" AT TRIANGLE OF TREAD, RISER & BOTTOM RAIL per R312.1.3
- GUARDS MUST BE PROVIDED AS WINDOW FALL PROTECTION AT LOW WINDOWS LOCATED GREATER THAN 72" ABV. FINISHED GRADE per IRC, R312.2

GUARDS and HANDRAILS MUST RESIST A SINGLE CONCENTRATED LOAD OF 200lbs. IN ANY DIRECTION ALONG THE TOP and GUARD INFILL MUST RESIST A 50lb. LOAD APPLIED HORIZ. OVER 1 Sq.Ft. per IRC, TABLE R301.5

### ALARMS

SMOKE ALARMS and CARBON MONOXIDE ALARMS REQUIRED IN ALL NEW DWELLINGS SHALL MEET REQUIREMENTS and EXCEPTIONS OF NFPA 72, IRC, R314 and R315.

- SMOKE ALARMS TO BE LISTED and INSTALLED IN ACCORDANCE w/IRC, R314.1.1 and CARBON MONOXIDE ALARMS IN ACCORDANCE w/IRC, R315.1.1
- SMOKE ALARMS SHALL BE INSTALLED IN FOLLOWING LOCATIONS per R314.3 :

- IN EACH SLEEPING ROOM.
- OUTSIDE EACH SEPARATE SLEEPING AREA.
- ON EACH STORY OF THE DWELLING.
- NOT LESS THAN 3' FROM A BATHROOM w/TUB or SHOWER.
- NOT NEAR COOKING APPLIANCES per R314.3.1
- SMOKE ALARMS SHALL BE INTERCONNECTED per R314.4
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS per R315.3 :

- ON EACH STORY OF THE DWELLING
- ADJACENT TO EACH SEPARATE SLEEPING AREA.
- WITHIN BEDROOMS WHERE A FUEL BURNING FIREPLACE IS LOCATED IN THE ROOM or ITS ATTACHED BATH.
- ALL ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING w/BATTERY BACKUP per R314.6 and R315.5
- COMBINATION SMOKE and CARBON MONOXIDE ALARMS SHALL BE PERMITTED IN LIEU OF SEPARATE

ALARMS per R314.5 and R315.4

## BUILDING CODES FOR THIS SET

CITY OF MERCER ISLAND CODES AT THE DATE OF THIS DRAWING SET:

- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2018 WASHINGTON STATE ENERGY CODES
- 2018 ICC A117.1. BARRIER-FREE STANDARD
- 2018 INTERNATIONAL FIRE CODE (IFC)
- 2018 NATIONAL ELECTRIC CODE (NEC)
- 2018 UNIFORM PLUMBING CODE (UPC)
- 2018 INTERNATIONAL MECHANICAL CODE (IMC)
- 2018 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2018 POOL AND SPA CODE

## ABBREVIATIONS

# Pound OR Number	ELEC Electrical	MC Medicine Cabinet	SLB Slab
& And	ELEV Elevation	MDO Medium Density	SPEC Specification
@ At	EQ Equal	Overlay	SQ Square
A/C Air Conditioner	EW Each Way	MED Medium	SQ IN Square inches
AB Anchor Bolt	EXO Excavate	MECH Mechanical	SOFT Square feet
ABV Above	EXH Exhaust	MEMB Membrane	STC Sound Transmission
AD Area Drain	EXIST Existing	MFR Manufacturer	Coefficient
ADDL Additional	EXT Exterior	MIR Mirror	STD Standard
ADH Adhesive	FBD Fiberboard	MISC Miscellaneous	STL Steel
ADJ Adjustable	FCB Fiber Cement Board	MLB Micro Laminated Beam	STR Structural
AFF Above Finish Floor	FCC Floor clean out	FOD Floor drain	STRUCT Structure or
AGG Aggregate	FD Floor drain	FIN Finish	STRUC Structural
ALT Alternate	FIXT Fixture	FLR Floor	SV Square yard
ALUM Aluminum	FLR Fluorescent	NO #	T Tread
ANC Anchor	FLR Approximate	NO Number	T&G Tongue and Groove
APX Approximate	FLR Flashing	NOM Nominal	TEL Telephone
ASPH Asphalt	FSH Flashing	NTS Not to Scale	TEMP Tempered
AUTO Automatic	FND Foundation	O Non-Operable Window	TK Tight Knot
AVR Average	FO Face Of	OB Section	TME To Match Existing
AWG American Wire Gauge	FOG Face of Concrete	OBS Obscure	TOB Top of Beam
B/O By Others	FOS Face of Studs	OC On Center	TOC Top of curb/ Top of
BD Board	FW Face of Wall	OD Outside Diameter	Concrete
BLDG Building	FPL Fireplace	OH Overhang	TOF Top of footing
BLK Blocking	FRM Frame(ing)	OP Opaque	TOJ Top of joist
BLW Below	FRP Fireproof	OPG Opening	TOW Top of wall
BM Beam	FT Foot	OPENG Opening or	TP Toilet Paper Hanger
BTM Bottom	FUR Furred	OSB Orientated Strand	Typ Typical
BOB Bottom of wall	GA Gauge	PBD Particle Board	UN UNless Noted
BR Bedroom	GALV Galvanized	PBF Prefabricated	Otherwise
BST Basement	GFC Ground Fault Circuit	PERF Perforate(d)	VB Vapor barrier
BTW Between	INT Interrupt	PL Property Line	VERT Vertical
BYND Beyond	GFI Ground Fault	PLAM Plastic Laminat	WC Toilet (water closet)
CAB Cabinet	GL Glass	PLYW Plywood	WD Wood
CAS Casement	GLB Glass Block	PNT Point or Painted	WDW Window
CB Catch Basin	GWB Gypsum Wall Board	PSF Pounds Per Square	WH Water Heater
Cent Center to Center	OP cast-in-place	FOOT Foot	WC Walk-in Closet
CJ Control Joint	HB Hose Bib	PSI Pounds Per Square	WP Water Proofing
CL Centerline	HC Hollow Core	INCH Inch	WP Weatherproof
CLG Ceiling	HDR Header	PVC Pressure Treated	WR Weather Resistant
CLR Clear	HTR Hardware	PVC Polyvinyl Chloride	WRB Weather Resistive
CMU Concrete Masonry	HT Height	PVT Pavement	WWF Welded Wire Fabric
Unit	HVAC Heat-Vent-Air	R Riser	X Operable Window
COL Clean Out	COND Conditioning	R&S Rod and Shelf	Section
COL Column	ID Inside Diameter	RC Reinforced Concrete	
CONC Concrete	ILO In Lieu Of	RD Rod	
CONT Continuous	IN Inch	RD Roof Drain	
CRPT Carpet	INCL Include	RDL Roof drain leader	
CT Ceramic Tile	INS Insulate(ion)	REBAR Reinforcing Bar	
CTYD Courtyard	INSUL Insulation	REFR Ref	
CU FT Cubic Feet	INT Interior	REG Register	
CU YD Cubic Yard	U-Box Junction box	REQ Required	
DBL Double	JNT Joint	REQ Required	
DEMO Demolish or	JST Joist	REV Revision	
Demolition	JKm Kilm Dried	RFC Roofing	
DH Double Hung	KIT Kitchen	RM Room	
DIA Diameter	LAM Laminat(e)	ROG Rough Opening	
DIM Dimension	LAV Lavatory	ROW Right of way	
DN Down	LD Damp proofing	SA Supply Air	
DP Damp proofing	LF Lined Feet	SCH Schedule	
DR Door	LL Live Load	SCN Screen	
DRWR Drawer	LT Light	SD Smoke detector	
DS Downspout	LTO Lighting	SECT Section	
DT Drain Tile	LVL Laminated Veneer	SOD Sliding Glass Door	
DW Dishwasher	LVR Louver	SH Shelf	
DWG Drawing	LVS Masonry	SHTH Sheathing	
EA Each	MAX Maximum	SIM Similar	
EF Exhaust fan	MBR Member		
EJ Expansion Joint			
EL Elevation			

## PROJECT TEAM

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## COVER SHEET

1/4" = 1'-0"

## SHEET INDEX

SHEET #	DESCRIPTION
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A3	FOUNDATION PLAN
A4	MAIN FLOOR FRAMING PLAN
A5	MAIN FLOOR PLAN
A6	UPPER FLOOR FRAMING PLAN
A7	UPPER FLOOR PLAN
A8	ROOF FRAMING PLAN
A9	ROOF PLAN
A10	EXTERIOR ELEVATIONS
A11	EXTERIOR ELEVATIONS
A12	BUILDING SECTIONS
S0.0	LATERAL - STRUCTURAL GENERAL NOTES
LB-1	LATERAL - DETAILS
LB-2	LATERAL - DETAILS
LB-3	LATERAL - DETAILS
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D1	WATER INTRUSION DETAILS
E1	MAIN FLOOR ELECTRICAL LAYOUT
E2	UPPER FLOOR ELECTRICAL LAYOUT
EN1	2018 ENERGY CODE CALCULATIONS

## F.A.R. CALCULATIONS: SQUARE FOOTAGE SUMMARY

MAIN FLOOR/ MAIN LIVING	1,700 S.F.
MAIN FLOOR A.D.U.	83 S.F.
GARAGE	712 S.F.
SUB TOTAL	2,495 S.F.
UPPER FLOOR/ MAIN LIVING	1,451 S.F.
UPPER FLOOR A.D.U.	687 S.F.
MINUS A.D.U. STAIRS	-53 S.F.
MINUS MAIN STAIRS	-42 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A.	4,496 S.F.
ALLOWABLE F.A.R. 45%	4,507 S.F.
PROPOSED	44.3%
TOTAL NET AREA MAIN HOUSE	1,783 S.F.
GARAGE	712 S.F.
TOTAL NET A.D.U.	740 S.F.
SUB TOTAL	3,235 S.F.
COVD PATIO	572 S.F.
COVD PORCH	68 S.F.
OVERALL WIDTH	62'-6 1/4"
OVERALL DEPTH	44' - 1 1/2"

Method for Calculating Square Footage - ANSI Z396-2019 (see applicable code for details)

Method for Calculating Square Footage - ANSI Z396-2019 (see applicable code for details)

Square footage calculations for this house were made based on plan dimensions only and may vary from the finished square footage of the house as built.

See Sheet "CODES" for additional Zoning required Area Calculations

Issue Date By

Description

06.06.22

CLIENT REVISIONS

07.28.22

DESIGN REVISIONS

Issue	Issue Date	By	Description

**PIHA RESIDENCE**  
**3745 77th Ave SE**  
**MERCER ISLAND, WA.**

plan name:  
 marketing name: XXXXX  
 plan number:  
 mark sys. number:--

Conditions not specifically represented graphically or in writing or which conflict with the 2015 International Residential Code (IRC.) and/or those of the local municipality then the current standards and requirements of each respectively shall govern.

The drawings in this set are instruments of service and shall remain the property of JayMarc Homes, LLC.

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Submittal Date

Sheet Title/Description

Design Firm

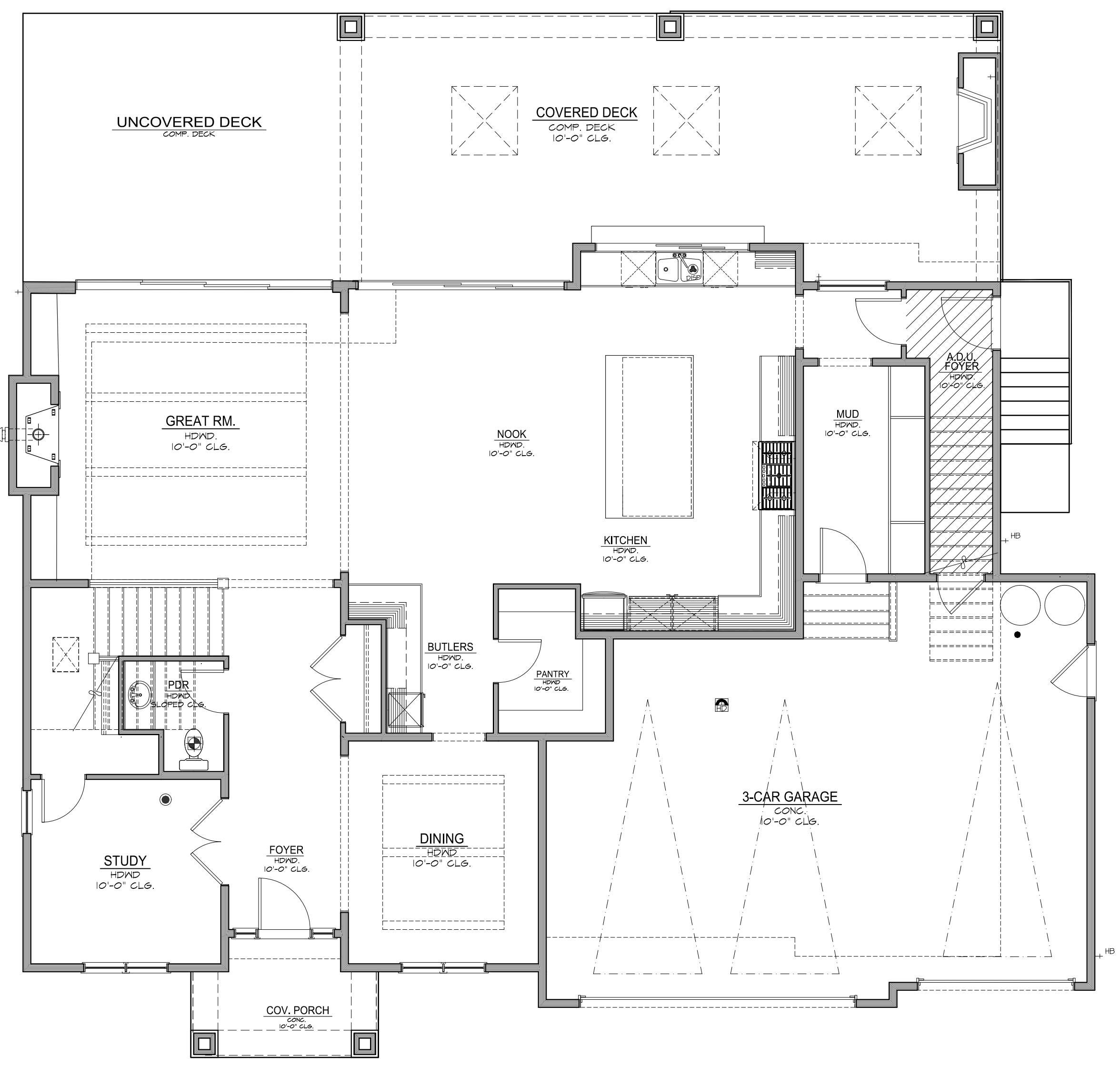
RCR  
 Drawn by:

SK  
 Checked by:

1/4"=1'-0" (48)  
 Primary Scale

**A1.1**  
 of .28

Sheet Title/Description



HATCH REPRESENTS A.D.J. UNIT AND LOCATION TO BUILDING ENVELOPE

**MAIN FLOOR PLAN**

1/4" = 1'-0"



HATCH REPRESENTS A.D.J. UNIT AND LOCATION TO BUILDING ENVELOPE

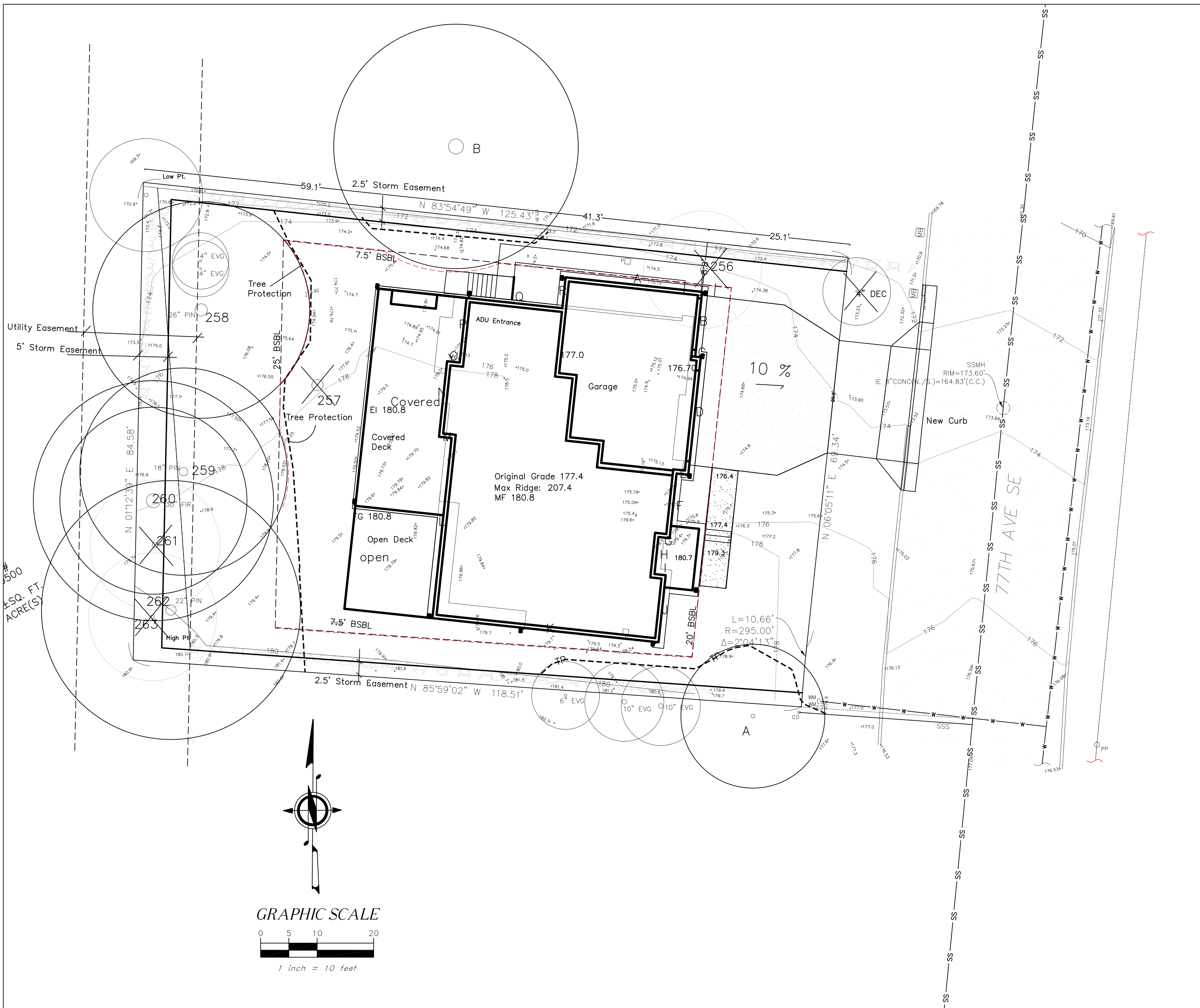
**UPPER FLOOR PLAN**

1/4" = 1'-0"

**F.A.R. CALCULATIONS:  
 SQUARE FOOTAGE SUMMARY**

MAIN FLOOR/ MAIN LIVING	1,700	S.F.
MAIN FLOOR A.D.J.	83	S.F.
GARAGE	712	S.F.
SUB TOTAL	2,495	S.F.
UPPER FLOOR/ MAIN LIVING	1,454	S.F.
UPPER FLOOR A.D.J.	687	S.F.
MINUS A.D.J. STAIRS	-53	S.F.
MINUS MAIN STAIRS	-42	S.F.
SUB TOTAL	2,001	S.F.
TOTAL S.F.A.	4,496	S.F.
ALLOWABLE F.A.R. 45%	4,507	S.F.
PROPOSED	44.3%	
TOTAL NET AREA MAIN HOUSE	1,783	S.F.
GARAGE	712	S.F.
TOTAL NET A.D.J.	740	S.F.
SUB TOTAL	3,235	S.F.
COVD PATIO	512	S.F.
COVD PORCH	68	S.F.
OVERALL WIDTH	62'-6"	1/4"
OVERALL DEPTH	44'-1"	1/2"

Method for Calculating Square Footage - ANSI Z765-2018 except, no separate distinction of driveway area or back-slope area and each shall be measured to the outside of studs not the exterior finished surface.  
 Square footage calculations for this house were made based on plan dimensions only and may vary from the finished square footage of the house on built.  
 See Sheet "CODES" for additional Zoning required Area Calculations.



**PROPERTY OWNER**  
Dan and Kelly Piha  
**STREET ADDRESS**  
3745 77th Ave SE, Mercer Island, WA 98040  
**PARCEL #**  
545880500  
**LEGAL DESCRIPTION**  
Lot 22, Block 6 Mercedale  
**ZONE: R-9.6**  
**SETBACKS:**  
Front Yard - 20'  
Rear Yard - 25'  
Side Yards - 7.5' / 15'  
**HEIGHT LIMIT:** 30' above ABE to roof peak  
**MAXIMUM LOT COVERAGE:** 40%  
**MAXIMUM HARDSCAPE:** 9%  
**MAXIMUM FAR:** 40%  
**PARKING SPACES PROVIDED:** 3 GARAGE 2 DRIVEWAY  
**NO CRITICAL MESSAGES IMPACTED**  
**NO ON-SITE EASEMENTS**

LOT COVERAGE	
Lot Area	10,016
Allowed	40%
Allowed sf	4,006
<b>New</b>	
Drive Area	3,310
Driveway	655
New sf	3,965
<b>Existing</b>	
Existing	2,178
Existing Removed	(2,178)
Net Existing	-
<b>Total</b>	<b>Total New and Existing 3,965</b>
	% 39.6%

PARKING	
Covered	3 ea.
Driveway	3 ea.

TREE TABLE									
ID	Species	DBH	DBH/100	Height	Condition	Notes	Prop	Remove	Retain
256	Japanese Maple	18.5	18.5	25'	excellent		yes		25.5
257	Common Buckthorn	27	27	17.6	poor		no	yes	27
258	Australian Black Pine	26.1	26.1	18'	poor		no	yes	26.1
259	Australian Black Pine	37.5	37.5	17'	poor		no	yes	37.5
260	Doog Fir	35.3	35.3	20'	poor		no	yes	35.3
261	Common Buckthorn	16.9	16.9	11'	poor		no	yes	16.9
262	Australian Black Pine	22.2	22.2	22.2'	poor		no	yes	22.2
263	Common Buckthorn	11	11	11.4'	poor		no	yes	11
Sub Totals							161.3		161.3
									95.8
									95.8

HEIGHT TABLE			
ID	Length	EI	x
A	24.5	175.2	4,292.4
B	11.5	175.0	2,012.5
C	2	175.0	350.0
D	21	174.9	3,672.9
E	2	175.1	350.2
F	11.5	175.1	2,013.7
G	2	179.5	359.0
H	6.5	179.5	1,166.8
I	2	179.5	359.0
J	12	179.5	2,154.0
K	40.5	179.8	7,281.9
L	32	179.9	5,756.8
M	2	179.7	359.4
N	13.5	179.0	2,416.5
O	2	175.1	350.2
P	11.5	175.0	2,012.5
Q	17	174.7	2,969.9
R	5.5	174.7	960.9
<b>TOTALS</b>	<b>219</b>		<b>38,838.5</b>
	<b>Average</b>		<b>177.4</b>

GROSS FLOOR AREA	
Main Floor/Main Living	1700 sf
Main Floor Garage	712 sf
Main Floor ADU	83 sf
<b>Total Main Floor</b>	<b>2495 sf</b>
<hr/>	
Second Floor Main Living	1459 sf
Second Floor Stair Deduction	-92 sf
Second Floor ADU	687 sf
ADU Stair Deduction	-53 sf
<b>Total Second Floor</b>	<b>2001 sf</b>
<hr/>	
<b>Total GFA</b>	<b>4496 sf</b>
Allowable GFA 45%	4507 sf
<b>Proposed %</b>	<b>44.3 %</b>

Hardscape	
<b>EXISTING</b>	
Uncovered Patio	1070
Walk	81
Rockery/Retaining Walls	13
<b>Total Existing</b>	<b>1164</b>
Existing Removed	1164
<b>Net Existing Retained</b>	<b>0</b>
<b>NEW</b>	
Walkways	223
Stairs	45
Uncovered Deck	260
<b>Total New</b>	<b>528</b>
<b>Total New and Existing</b>	<b>528</b>
<b>Total Hardscape</b>	<b>5.3%</b>

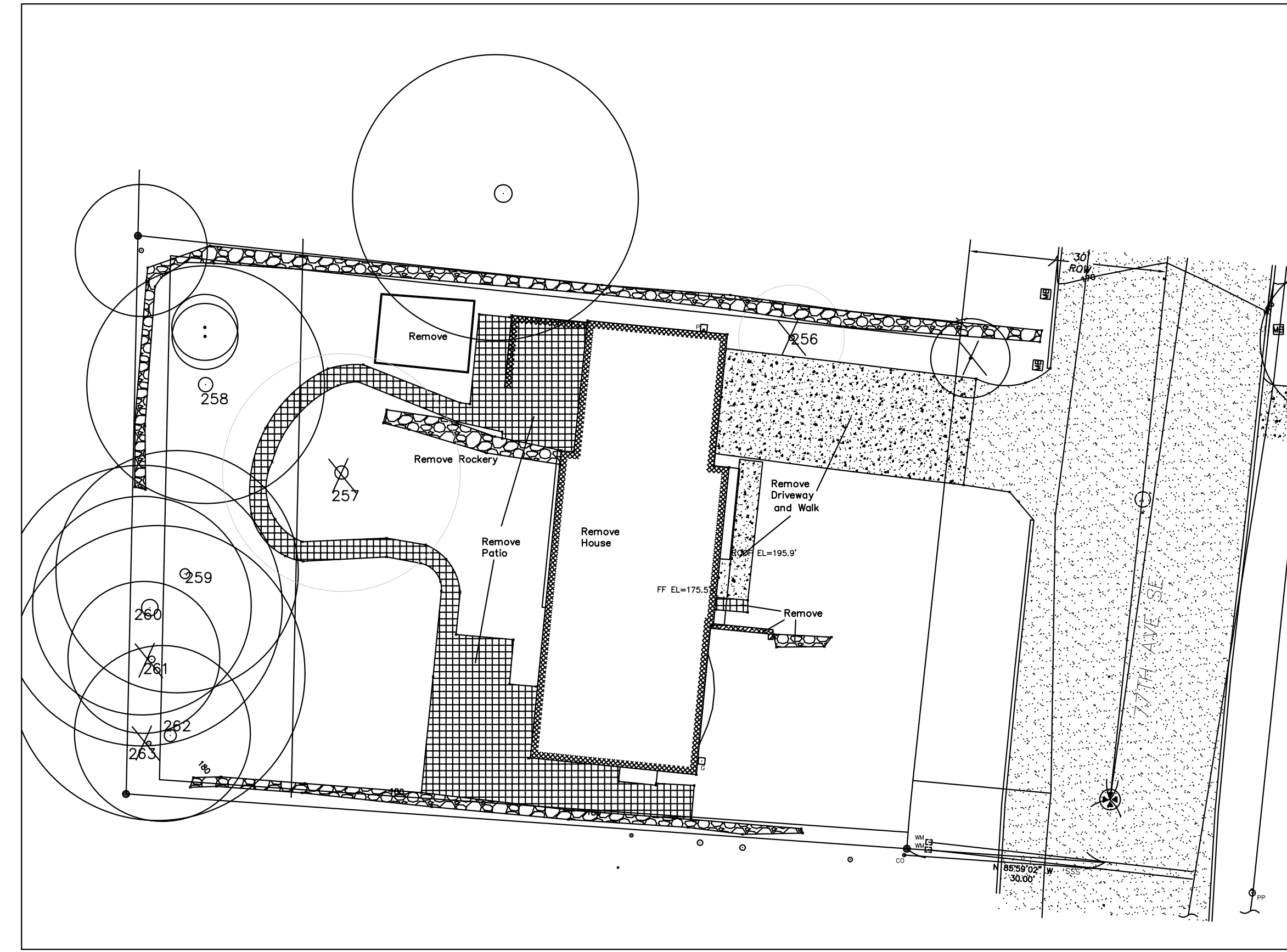
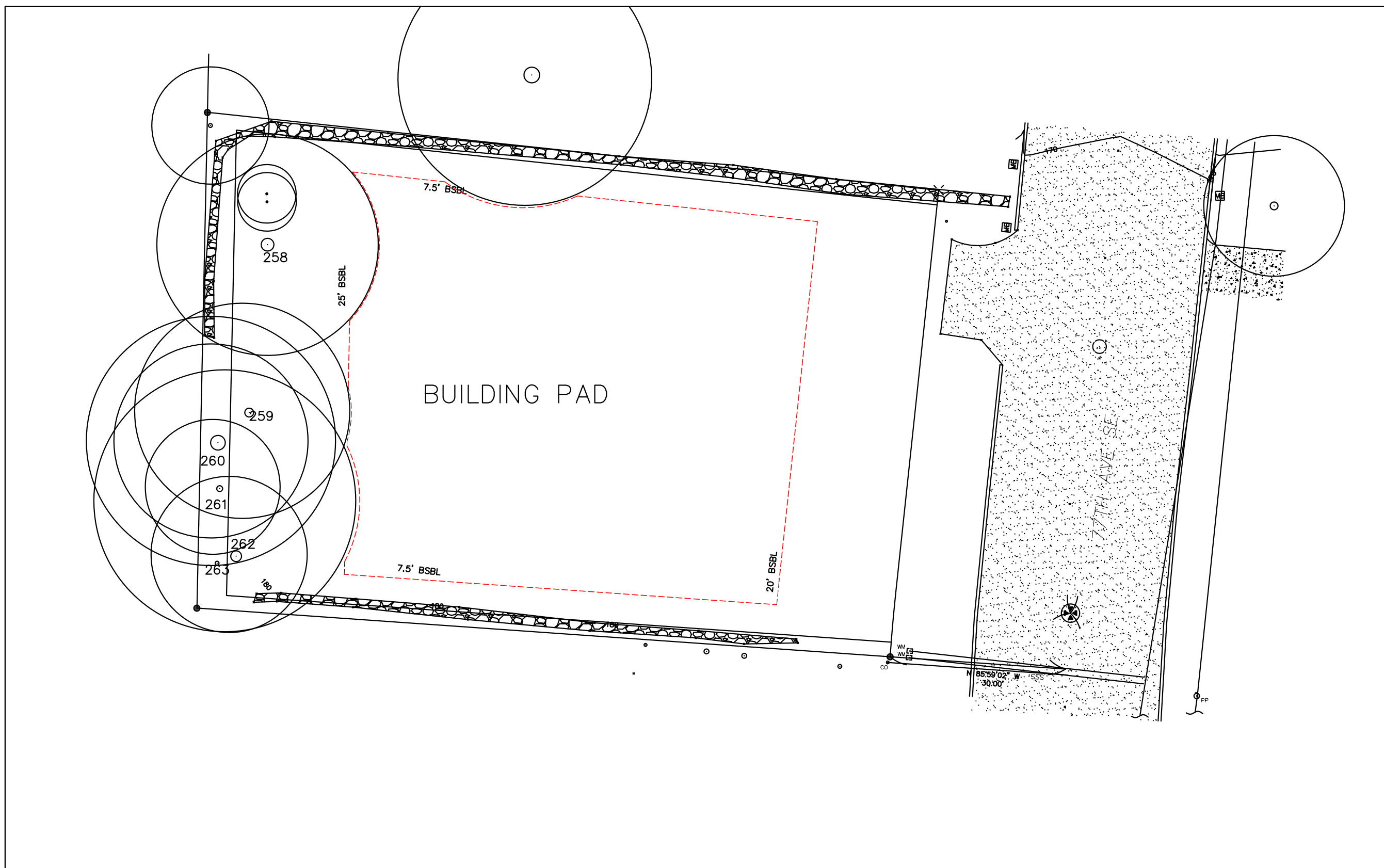
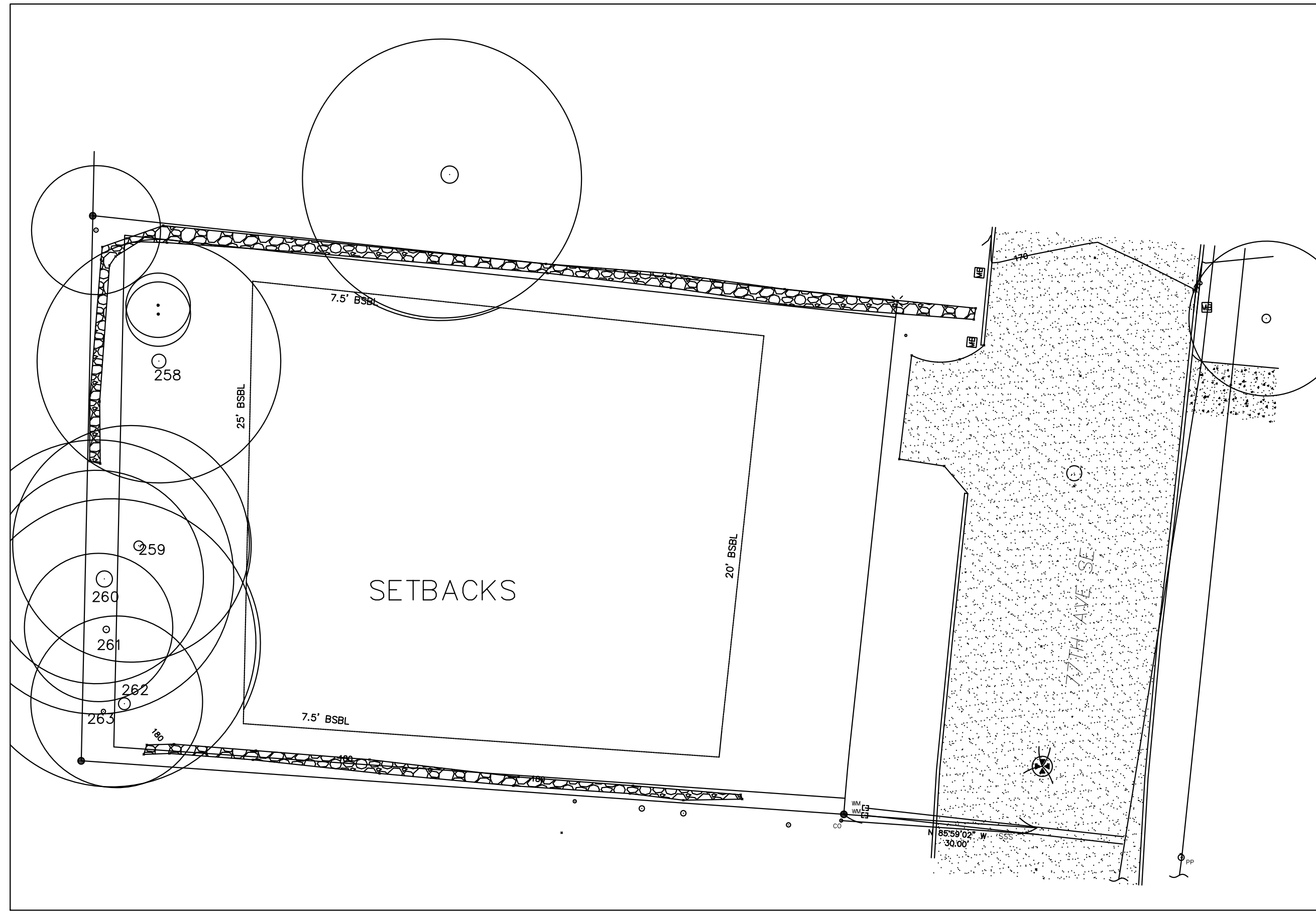
Lot Slope Calculation	
High Point	180.3
Low Point	170.8
Elevation Difference	9.5
Distance	78.4
Slope	12.1%

JayMarc Homes, LLC  
7525 SE 24th St, #487  
Mercer Island, WA 98040  
425 281 2706

SITE PLAN  
PIHA RESIDENCE  
3745 77th Ave SE

Drawn by  
Gary Upper  
2-17-22  
6-21-22  
7-28-22

A2.1



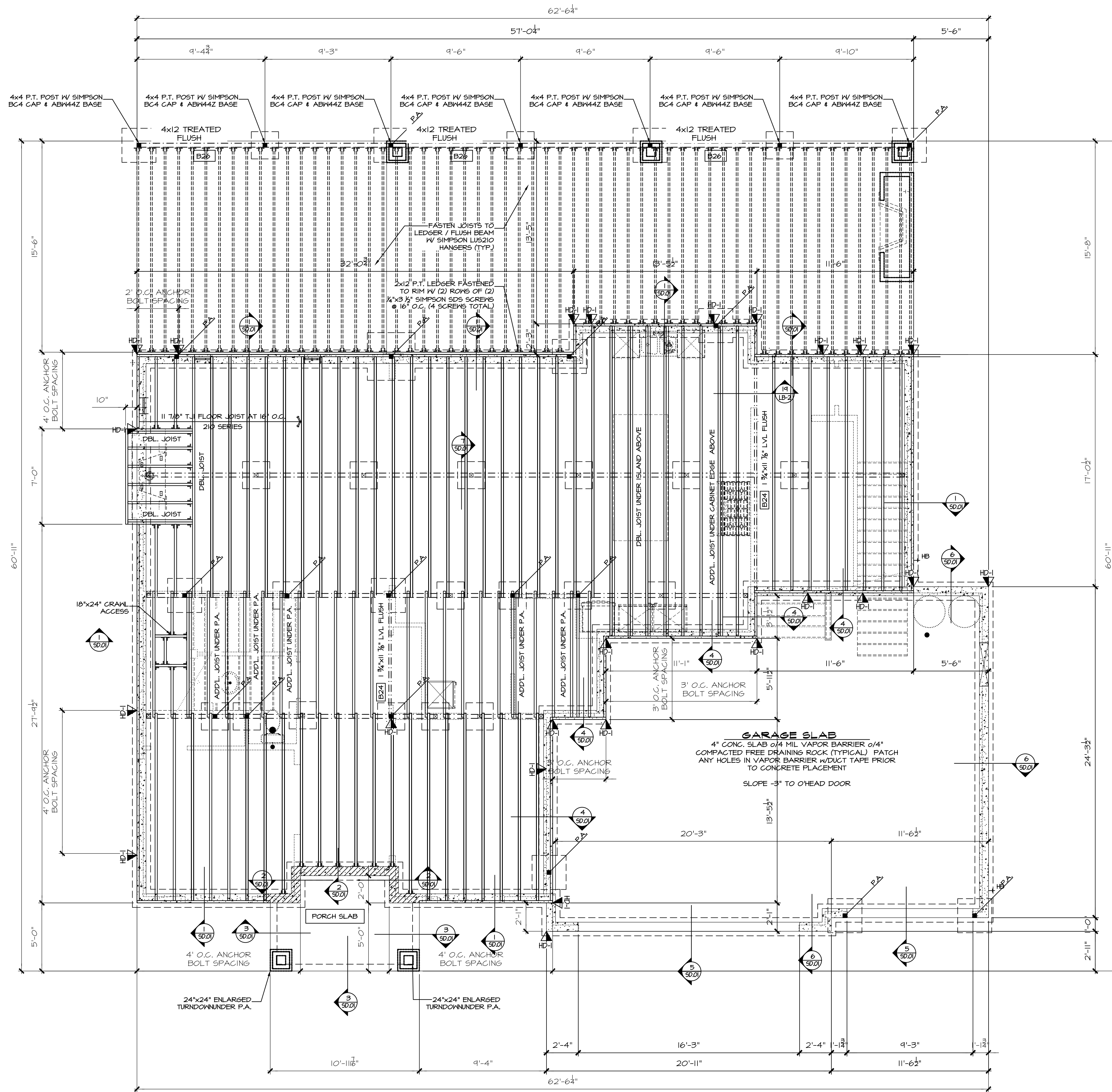
# DEMOLITION

JayMarc Homes, LLC  
 7525 SE 24th St, #487  
 Mercer Island, WA 98040  
 425 281 2706

SITE PLAN  
 PIHA RESIDENCE  
 3745 77th Ave SE

Drawn by  
 Gary Upper  
 2-17-22  
 6-21-22





**NOTES:**

HOLD-DOWN SCHEDULE	
SYMBOL	SPECIFICATION
HD-1	SIMPSON 5THD14 (R-J) HOLD-DOWN
HD-5	SIMPSON CS16 STRAP TIE (14" END LENGTH)
HD-6	SIMPSON MSTC40 STRAP TIE (12" END LENGTH)
HD-7	SIMPSON MSTC66 STRAP TIE (24" END LENGTH)

LEGEND	
J.L.	METAL HANGER
*	INDICATES POST ABOVE, PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
▶	INDICATES HOLD-DOWN.

INDICATES 11-7/8" TJI FLOOR JOISTS 210 SERIES @ 19.2" O.C. (TYP. U.N.O.)

REFER TO S-O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

4x10 DROPPED CONT. (TYP. U.N.O.)

**TYP. CRAWLSPACE POSTS:**  
 4x4 P.T. POST W/2x4 CLEATS EA. SIDE + (2) A35 CLIPS ON EA. SIDE @ BASE OF POST W/0.131"x1-1/2" LONG REDHEAD NAILS (4'-0" MAX. POST HEIGHT) ON ASPHALT SINGLE ON 24"x24"x8" PLAIN CONC. FTG. (TYP. U.N.O.)

FOUNDATION VENTILATION		
Crawlspace Area:	1783 s.f.	
Ventilation Required:	1783 s.f. / 300 =	855.84 s.i. Req'd
Use:	14" x 7" Foundation Vents	
Vent Area =	98 s.i. - 25% reduct., 1/4" mesh =	73.5 s.i.
Vents Required =	855.84 s.i. / Vent Area =	11.64 s.i.
Provide:	12 14" x 7" Vents, Area =	882 s.i.
Ventilation Provided =	882.00 s.i. is Greater than	855.84 s.i. Req'd
Use:	12 14" x 7" Foundation Vents	
* FOUNDATION VENTS SHALL NOT INTERFERE WITH DIRECT LOAD PATH OF COLUMNS		
* INSTALL 6 MIL BLACK POLYETHYLENE VAPOR RETARDER GROUND COVER		
* LOCATE ONE VENT WITHIN 3 FEET OF EACH CORNER OF THE BUILDING, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTS.		

**MAIN FLOOR FRAMING LAYOUT**  
 1/4" = 1'-0"



PIHA RESIDENCE  
 3745 77th Ave SE  
 MERCER ISLAND, WA.

plan name:  
 marketing name: XXXXX  
 plan number: -  
 mark sys. number: -

Conditions not specifically represented graphically or in writing or which conflict with the 2015 International Residential Code (IRC) and/or those of the local municipality then the current standards and requirements of each respectively shall govern.

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Submittal Date

Sheet Title/Description

Design Firm

RCR  
 Drawn by:

SK  
 Checked by:

1/4" = 1'-0" (48)  
 Primary Scale

Sheet Title/Description

**A4**  
 of .28

# MAIN FLOOR PLAN NOTES

**PLAN SPECIFIC 2018 WSEC SECTION R06**  
 R406.2 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS (MANDATORY). THIS RESIDENTIAL DWELLING SHALL COMPLY W/SUFFICIENT OPTIONS FROM TABLE R406.2 TO ACHIEVE THE FOLLOWING MIN. NUMBER OF CREDITS:  
 6 FOR A 1501sf TO 4999sf HOME.  
 CREDITS PROVIDED IN THIS HOME AS FOLLOWS:  
**EFFICIENT BUILDING ENVELOPE OPT. 1.3: 0.5 CREDITS**  
 PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH FOLLOWING MODIFICATIONS:  
 VERTICAL PENETRATION U = 0.28 WINDOWS  
 FLOORS TO BE R-38 and SLAB ON GRADE TO BE R-10 PERIMETER and UNDER ENTIRE SLAB BELOW GRADE.  
**AIRLEAKAGE & EFFICIENT VENTILATION OPT. 2.1: 0.5 CREDITS**  
 REDUCE THE TESTED AIR LEAKAGE TO 3.0 AIR CHANGES PER HOUR MAXIMUM @ 50 PASCALS AND ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION M507.3 OF THE I.R.C. OR SECTION 404.8 OF THE I.M.C SHALL BE MET WITH A HIGH EFFICIENCY FAN(S) (MAXIMUM) OF 0.35 WATTS/CFM, NOT INTERLOCKED WITH THE FURNACE FAN (IF PRESENT). VENTILATION SYSTEMS USING A FURNACE INCLUDING AN ECM MOTOR ARE ALLOWED, PROVIDED THAT THEY ARE CONTROLLED TO OPERATE AT LOW SPEED IN THE VENTILATION ONLY MODE.  
**HIGH EFFICIENCY HVAC EQUIPMENT OPT. 3.5a: 1.5 CREDITS**  
 AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MINIMUM HSPF OF 11.0. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT EFFICIENCY. EXTERIOR LOCATED EQUIPMENT SHOULD ALSO BE REPRESENTED ON SITE PLAN.

**HIGH EFFICIENCY HVAC DISTRIBUTION OPT. 4.2: 1.0 CREDITS**  
 HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEM(S) SHALL COMPLY WITH THE REQUIREMENTS OF SECT R403.3.7. LOCATING SYSTEM COMPONENTS IN CONDITIONED CRAWL SPACES IS NOT PERMITTED UNDER THIS OPTION. ELECTRIC RESISTANCE HEAT AND DUCTLESS HEAT PUMPS ARE NOT PERMITTED UNDER THIS OPTION. DIRECT COMBUSTION HEATING EQUIPMENT WITH AFUE LESS THAN 80% IS NOT PERMITTED UNDER THIS OPTION.  
**EFFICIENT WATER HEATING 5.5: 2.0 CREDITS**  
 WATER HEATING SYSTEMS SHALL INCLUDE ONE OF THE FOLLOWING:  
 ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR TIER III OF NEEA'S ADVANCED WATER HEATING SPECIFICATION.  
 TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE WATER HEATER EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY.

**WHOLE HOUSE VENTILATION**  
 PROVIDE WHOLE HOUSE VENTILATION PER 2018 IRC, R403.8 and IMC M507 USING WHOLE HOUSE VENTILATION SYSTEM USING CENTRAL EXHAUST FAN, CONTINUOUSLY OPERATING - WALL SWITCH LABELED "WHOLE HOUSE FAN. LEAVE ON UNLESS OUTDOOR AIR QUALITY IS POOR".  

SYMBOL	LOCATION	MIN. FAN REQUIREMENTS (ALL FANS VENT TO OUTSIDE)
	BATH & POWDER	Min. 50cfm, INTERMITTENT at .025kg per TABLE M507.4
	KITCHEN	Min. 100cfm, INTERMITTENT at .025kg per TBL. M507.4
	RANGE HOOD	100cfm. RANGE HOOD FOR DOWN DRAFT EXHAUST FAN RATED AT MIN. 100cfm. AT 2.0inwg MAY BE USED FOR EXHAUST FAN REQMT. EXHAUST HOODS IN EXCESS OF 400cfm. SHALL BE INTERLOCKED AND PROVIDE MAKE UP AIR PER W/M503.4
	LAUNDRY ROOM	FINAL ADJUSTED RATE = 143 CFM (90 CFM PER TABLE 1505.4.3(1), ADJUSTED BY FACTOR OF 1.5 PER TABLE M505.4.3(2) FOR NON-BALANCED, NOT DISTRIBUTED SYSTEM.

PER IRC M505.4.1.1, WHOLE HOUSE VENTILATION FANS MUST BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 IN I.L.C. STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN IRC M505.4.1.2 AND M505.4.1.3.

CARBON MONOXIDE ALARMS/ DETECTORS ARE REQUIRED TO BE INTERCONNECTED PER IRC 315.5

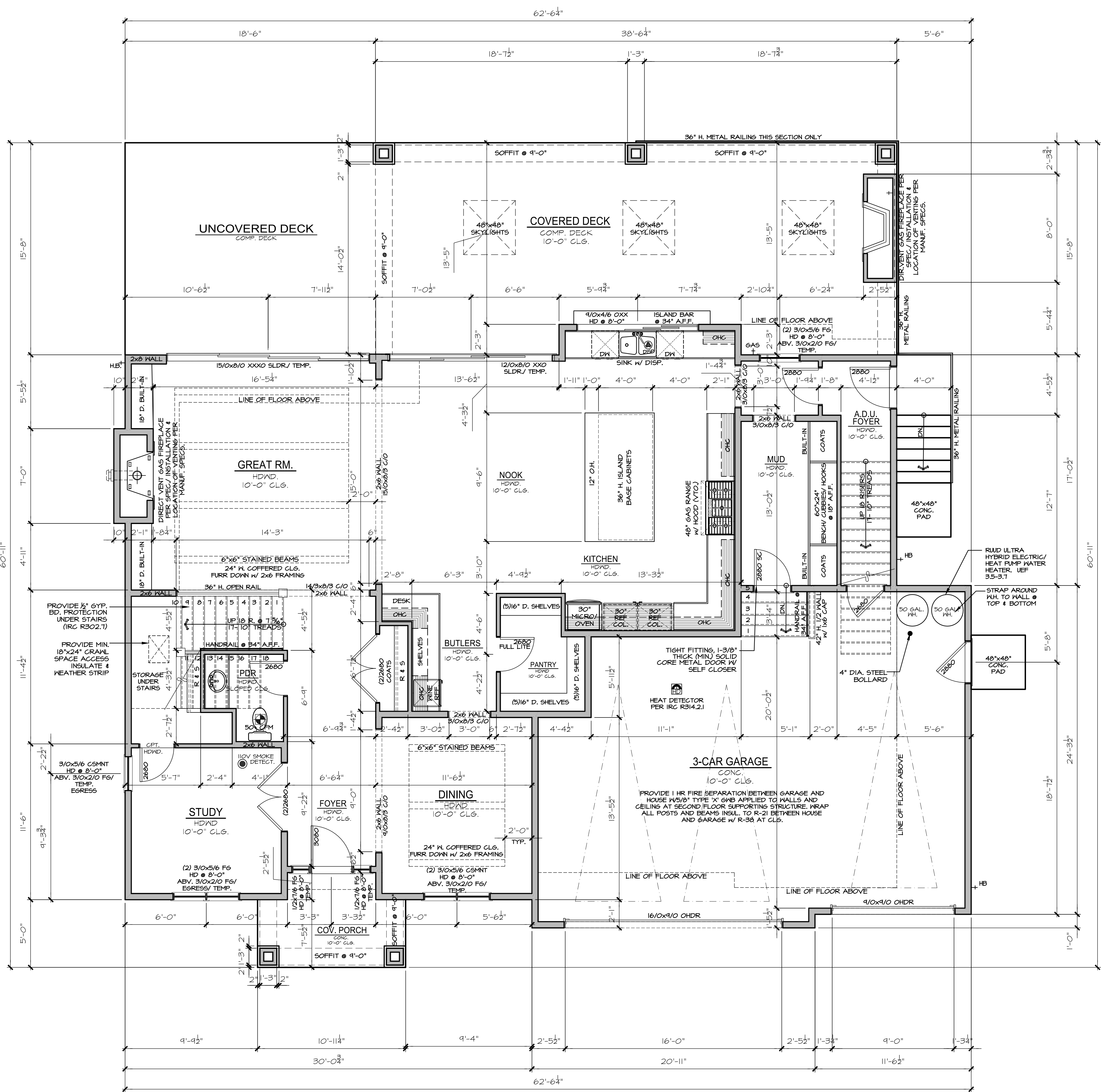
## MAIN FLOOR PLAN

1/4" = 1'-0"

### F.A.R. CALCULATIONS: SQUARE FOOTAGE SUMMARY

MAIN FLOOR/ MAIN LIVING	1,700 S.F.
MAIN FLOOR A.D.U.	83 S.F.
GARAGE	712 S.F.
SUB TOTAL	2,495 S.F.
UPPER FLOOR/ MAIN LIVING	1,459 S.F.
UPPER FLOOR A.D.U.	687 S.F.
MINUS A.D.U. STAIRS	-53 S.F.
MINUS MAIN STAIRS	-42 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A.	4,496 S.F.
ALLOWABLE F.A.R. 45%	4,507 S.F.
PROPOSED	44.3%
TOTAL NET AREA MAIN HOUSE	1,783 S.F.
GARAGE	712 S.F.
TOTAL NET A.D.U.	740 S.F.
SUB TOTAL	3,235 S.F.
COVD PATIO	572 S.F.
COVD PORCH	68 S.F.
OVERALL WIDTH	62'-6 1/4"
OVERALL DEPTH	44'-1 1/2"

Method for Calculating Square Footage - ANSI Z165-2013 except, no separate distinction of "above-grade or below-grade" areas and each level is measured to the outside of studs not the exterior finished surface.  
 Square Footage calculations for this house were made based on plan dimensions only and may vary from the finished square footage of the house as built.  
 See Sheet "CODES" for additional Zoning required Area Calculations.



**JAYMARC HOMES**  
 7525 SE 24th St., 487  
 Mercer Island, WA 98040  
 425.266.9100

Issue	Issue Date	Description

**PIHA RESIDENCE**  
 3745 77th Ave SE  
 MERCER ISLAND, WA.

plan name: XXXXX  
 marketing name: -  
 plan number: -  
 mark sys. number: -

Conditions not specifically represented graphically or in writing or which conflict with the 2015 International Residential Code (IRC) and/or those of the local municipality then the current standards and requirements of each respectively shall govern.

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Submission Date

Sheet Title/Description

Design Firm

RCR  
 Drawn by:

SK  
 Checked by:

1/4"=1'-0" (48)  
 Primary Scale

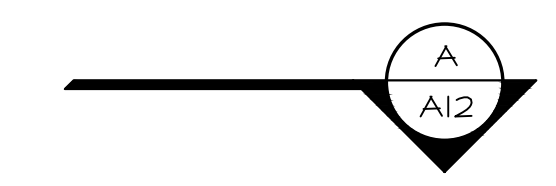
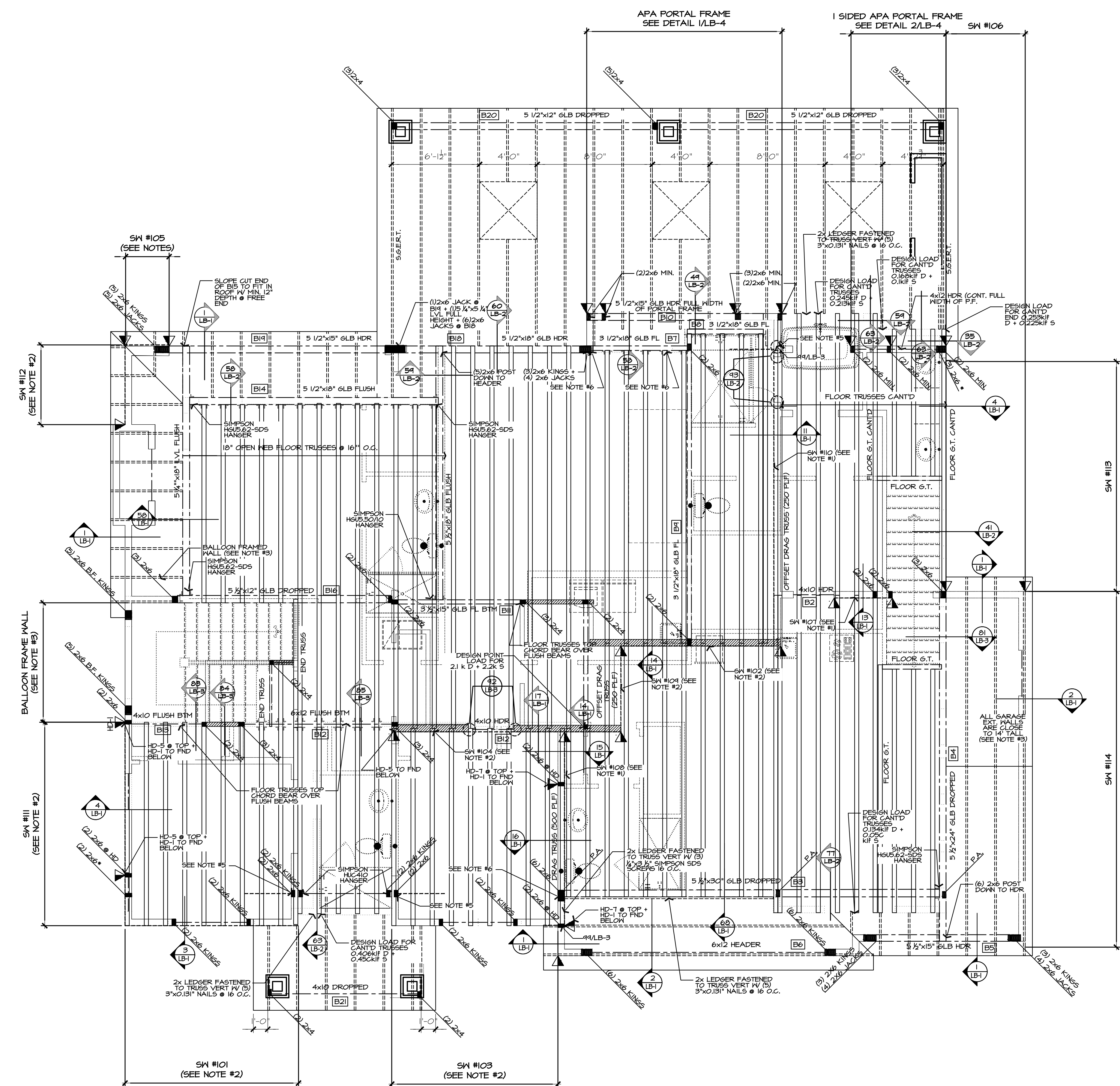
**A5**

of .28

Sheet Title/Description

- NOTE #1**  
PROVIDE 3/4" OSB OR PLYWOOD FASTENED PER TYPICAL EXTERIOR WALL SHEATHING SPEC. (SEE NOTES ON 5-0-0)
- NOTE #2**  
PROVIDE 3/4" OSB OR PLYWOOD FASTENED 3" O.C. EDGE NAILING SPEC. (SEE NOTES ON 5-0-0)
- NOTE #3**  
ALL WALLS 12' OR TALLER SHALL BE HF #2 GRADE OR BETTER.
- NOTE #5**  
PROVIDE SIMPSON CS16 STRAP FROM DBL TOP PLATE (13" END LENGTH) TO BOTTOM OF FULL HEIGHT TRUSS BLOCKING BETWEEN FLOOR TRUSSES (3'-0" MIN) FASTEN FLOOR SHTS TO BLOCKING W/ 2 1/2"x0.131" NAILS @ 6" O.C.
- NOTE #6**  
PROVIDE SIMPSON CS16 STRAP FROM DBL TOP PLATE TO BOTTOM OF FLUSH BEAM (13" LENGTH) @ EACH END.

Issue	Issue Date	By	Description



## UPPER FLOOR / MAIN FLOOR ROOF FRAMING LAYOUT

1/4" = 1'-0"

**PIHA RESIDENCE**  
3745 77th Ave SE  
MERCER ISLAND, WA.

plan name:  
marketing name: XXXXX  
plan number: -  
mark sys. number: -

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Submittal Date

Sheet Title/Description

Design Firm

RCR  
Drawn by:

SK  
Checked by:

1/4"=1'-0" (48)  
Primary Scale

**A6**  
of .28

Sheet Title/Description



## UPPER FLOOR PLAN NOTES

**PLAN SPECIFIC 2018 WSEC SECTION R406.2**  
 R406.2 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS (MANDATORY). THIS RESIDENTIAL DWELLING SHALL COMPLY WITH SUFFICIENT OPTIONS FROM TABLE R406.2 TO ACHIEVE THE FOLLOWING MIN. NUMBER OF CREDITS: 6 FOR A 1500sf TO 4,999sf HOME.  
 CREDITS PROVIDED IN THIS HOME AS FOLLOWS:  
**EFFICIENT BUILDING ENVELOPE OPT. 1.3: 0.5 CREDITS**  
 PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH FOLLOWING MODIFICATIONS:  
 VERTICAL FENESTRATION U = 0.28 WINDOWS  
 FLOORS TO BE R-30 and SLAB ON GRADE TO BE R-10 PERIMETER and UNDER ENTIRE SLAB BELOW GRADE.  
**AIRLEAKAGE & EFFICIENT VENTILATION OPT. 2.1: 0.5 CREDITS**  
 REDUCE THE TESTED AIR LEAKAGE TO 3.0 AIR CHANGES PER HOUR MAXIMUM @ 50 PASCALS AND ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION M507.5 OF THE IRC, OR SECTION 404.8 OF THE IMC SHALL BE MET WITH A HIGH EFFICIENCY FAN(S) (MAXIMUM OF 0.35 WATTS/CFM), NOT INTERLOCKED WITH THE FURNACE FAN (IF PRESENT). VENTILATION SYSTEMS USING A FURNACE INCLUDING AN EHC MOTOR ARE ALLOWED, PROVIDED THAT THEY ARE CONTROLLED TO OPERATE AT LOW SPEED IN THE VENTILATION ONLY MODE.  
**HIGH EFFICIENCY HVAC EQUIPMENT OPT. 3.5a: 1.5 CREDITS**  
 AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MINIMUM HSPF OF 11.0. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT EFFICIENCY. EXTERIOR LOCATED EQUIPMENT SHOULD ALSO BE REPRESENTED ON SITE PLAN.  
**HIGH EFFICIENCY HVAC DISTRIBUTION OPT. 4.2: 1.0 CREDITS**  
 HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEM(S) SHALL COMPLY WITH THE REQUIREMENTS OF SECT R403.3.7. LOCATING SYSTEM COMPONENTS IN CONDITIONED CRAWL SPACES IS NOT PERMITTED UNDER THIS OPTION. ELECTRIC RESISTANCE HEAT AND DUCTLESS HEAT PUMPS ARE NOT PERMITTED UNDER THIS OPTION. DIRECT COMBUSTION HEATING EQUIPMENT WITH AFUE LESS THAN 80% IS NOT PERMITTED UNDER THIS OPTION.  
**EFFICIENT WATER HEATING 5.5: 2.0 CREDITS**  
 WATER HEATING SYSTEMS SHALL INCLUDE ONE OF THE FOLLOWING: ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR TIER III OF NEEA'S ADVANCED WATER HEATING SPECIFICATION. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE WATER HEATER EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY.

**WHOLE HOUSE VENTILATION**  
 PROVIDE WHOLE HOUSE VENTILATION per 2018 IRC, R403.8 and IMC M507 USING WHOLE HOUSE VENTILATION SYSTEM USING CENTRAL EXHAUST FAN, CONTINUOUSLY OPERATING - WALL SWITCH LABELED "WHOLE HOUSE FAN, LEAVE ON UNLESS OUTDOOR AIR QUALITY IS POOR".

SYMBOL	LOCATION	MIN. FAN REQUIREMENTS (ALL FANS VENT TO OUTSIDE)
	BATH 4 POWDER	Min. 50cfm, INTERMITTENT at .025mg per TBL M507.4
	KITCHEN RANGE HOOD	Min. 100cfm, INTERMITTENT at .025mg per TBL M507.4
	LAUNDRY ROOM	FINAL ADJUSTED RATE = 143 CFM (80 CFM PER TABLE M505.4.3), ADJUSTED BY FACTOR OF 1.5 PER TABLE M505.4.3(2) FOR NON-BALANCED, NOT DISTRIBUTED SYSTEM.

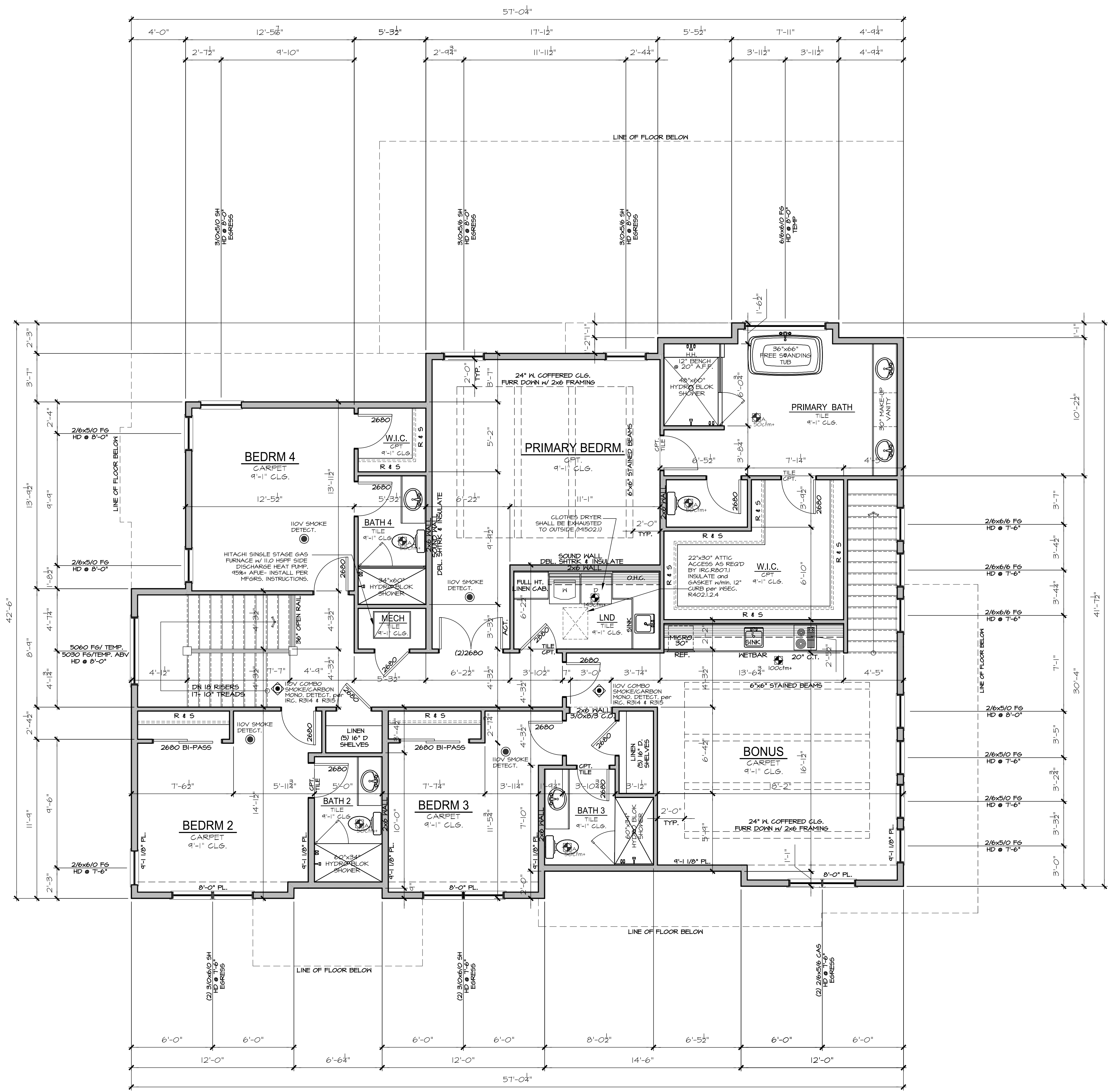
PER IRC M505.4.1.1, WHOLE HOUSE VENTILATION FANS MUST BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 IN Hg. STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN IRC M505.4.1.2 AND M505.4.1.3.

**CARBON MONOXIDE ALARMS/ DETECTORS ARE REQUIRED TO BE INTERCONNECTED PER IRC 315.5**



## UPPER FLOOR PLAN

1/4" = 1'-0"



### SQUARE FOOTAGE SUMMARY

MAIN FLOOR/ MAIN LIVING	1,700 S.F.
MAIN FLOOR A.D.U.	63 S.F.
GARAGE	712 S.F.
SUB TOTAL	2,475 S.F.
UPPER FLOOR/ MAIN LIVING	1,454 S.F.
UPPER FLOOR A.D.U.	607 S.F.
MINUS A.D.U. STAIRS	-53 S.F.
MINUS MAIN STAIRS	-42 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A.	4,476 S.F.
ALLOWABLE F.A.R. 45%	4,507 S.F.
PROPOSED	44.3%
TOTAL NET AREA MAIN HOUSE	1,783 S.F.
GARAGE	712 S.F.
TOTAL NET A.D.U.	740 S.F.
SUB TOTAL	3,235 S.F.
COVD PATIO	572 S.F.
COVD PORCH	68 S.F.
OVERALL WIDTH	62'-6 1/4"
OVERALL DEPTH	44'-1 1/2"

Method for Calculating Square Footage - ANSI Z165-2013 except, no separate distinction of above-grade or below-grade areas and each level is measured to the outside of studs not the exterior finished surface.  
 Square Footage calculations for this house were made based on plan dimensions only and may vary from the finished square footage of the house as built.  
 See Sheet "CODES" for additional Zoning required Area Calculations.

Issue	Issue Date	By	Description
△			

**PIHA RESIDENCE**  
 3745 77th Ave SE  
 MERCER ISLAND, WA.

plan name: \_\_\_\_\_  
 marketing name: XXXXX  
 plan number: \_\_\_\_\_  
 mark sys. number: \_\_\_\_\_

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Sheet Title/Description \_\_\_\_\_

Design Firm \_\_\_\_\_

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 Drawn by: \_\_\_\_\_

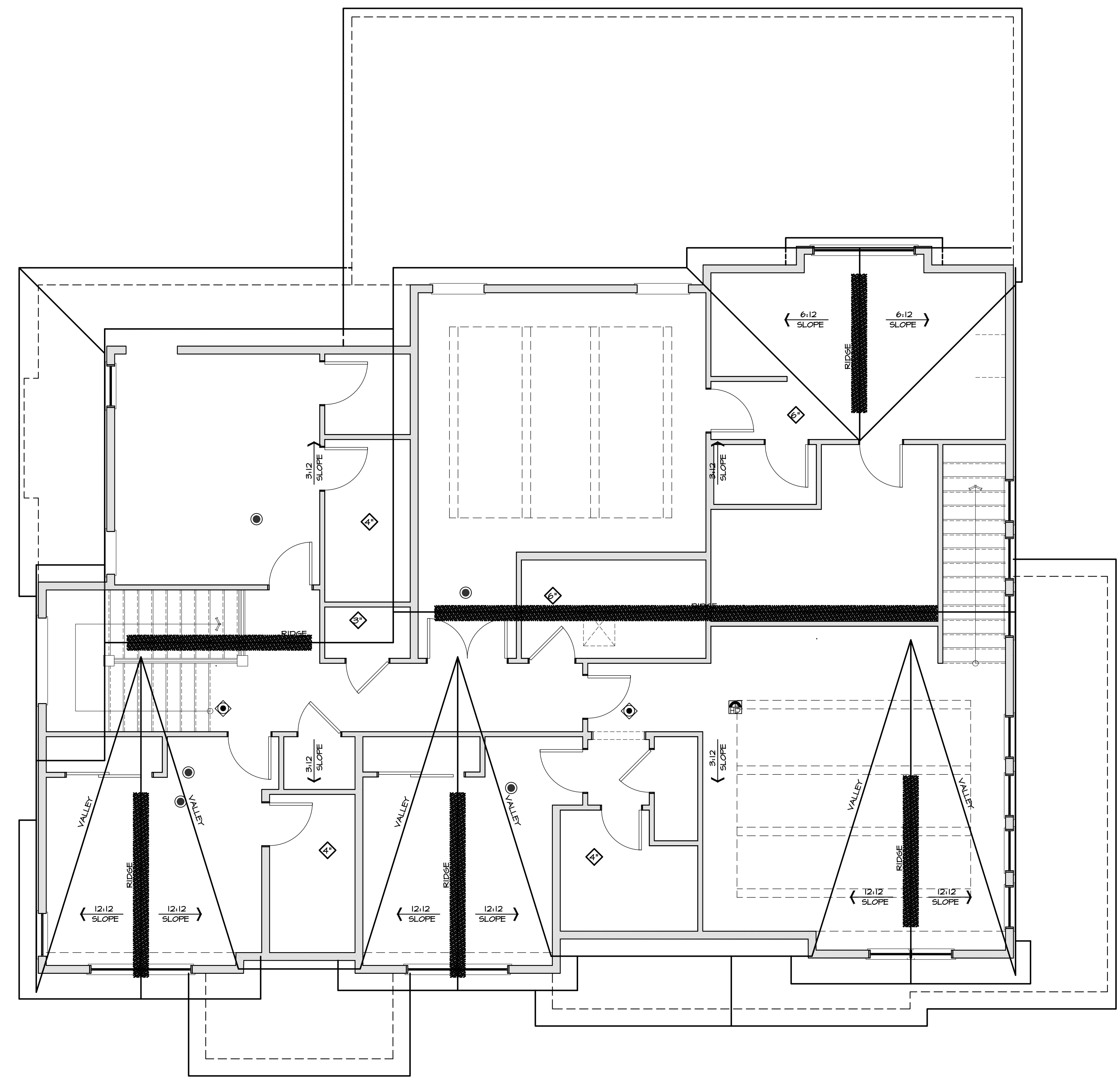
SK  
 Checked by: \_\_\_\_\_

1/4"=1'-0" (48)  
 Primary Scale

**A7**

Sheet Title/Description

ROOF VENTILATION		ZONE 1
Standard Truss / Scissor Truss Roof Framing Assembly:		
Roof Area :	2446 s.f.	
Ventilation Required:	2446 s.f. x 144 s.i. / s.f. / 300 =	1174.1 s.i. Req'd
Provide between 40% & 50% of the total required ventilation no more than 3 ft below the ridge or the highest point of the space. Remainder to be installed at eave vents.		
Ridge Ventilation: 50% of ventilation		587.04
Continuous Ridge Vent =		18.00 s.i. per l.f.
Upper Ventilation MIN. Req'd =	587.04 s.i. x 0.4 / s.i. per linear foot =	27 l.f.
Upper Ventilation MAX. Req'd =	587.04 s.i. x 0.5 / s.i. per linear foot =	32 l.f.
Provide:	30 l.f. ridge vent. Ventilation =	540.00 s.i.
Ventilation area remainder for AF50 vents =		47.04 s.i.
Upper Roof Ventilation: as needed to achieve 50% of ventilation		
AF50 Roof Jack (10" x 7") =		50.00 s.i. each.
Upper Ventilation Req'd TO GET 50% =	47.04 s.i. / s.i. of each vent =	1 vent
Provide:	0 -10"x7" roof jacks. Ventilation =	0.00 s.i.
Eave Ventilation:		
Birdblocking: (3/2" dia holes per bay =	4.71 s.i. / l.f. - 25% reduction =	3.53 s.i. / l.f.
Eave Ventilation Req'd =	587.04 s.i. / s.i. per l.f. =	47.04 l.f.
Provide Minimum:	214 l.f. birdblocking. Ventilation =	755.96 s.i.
Minimum Ventilation Provided =	1295.96 s.i. IS GREATER THAN :	1174.1 s.i. Req'd



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

Issue Issue Date By Description

Issue	Issue Date	By	Description

**PIHA RESIDENCE**  
3745 77th Ave SE  
MERCER ISLAND, WA.

plan name:  
marketing name: XXXXX  
plan number: -  
mark sys. number: -

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Submittal Date

Sheet Title/Description

Design Firm

RCR  
Drawn by:

SK  
Checked by:

1/4"=1'-0" (48)  
Primary Scale

**A8**

of .28

Sheet Title/Description

LEGEND	
	INTERIOR BEARING WALL
	BEAM / HEADER
	ROOF TRUSS @ 24" O.C. (U.N.O.)
	GIRDER TRUSS
	INTERIOR SHEAR WALL PANEL OR EXTERIOR SHEAR WALL w/ 3" O.C. EDGE NAILING
	JL METAL HANGER
	INDICATES OVER FRAMED TRUSS AREA

REFER TO S-O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

4x10 HDR @ ALL EXT. [BI]  
 WINDOWS/DOORS (TYP. U.N.O.)

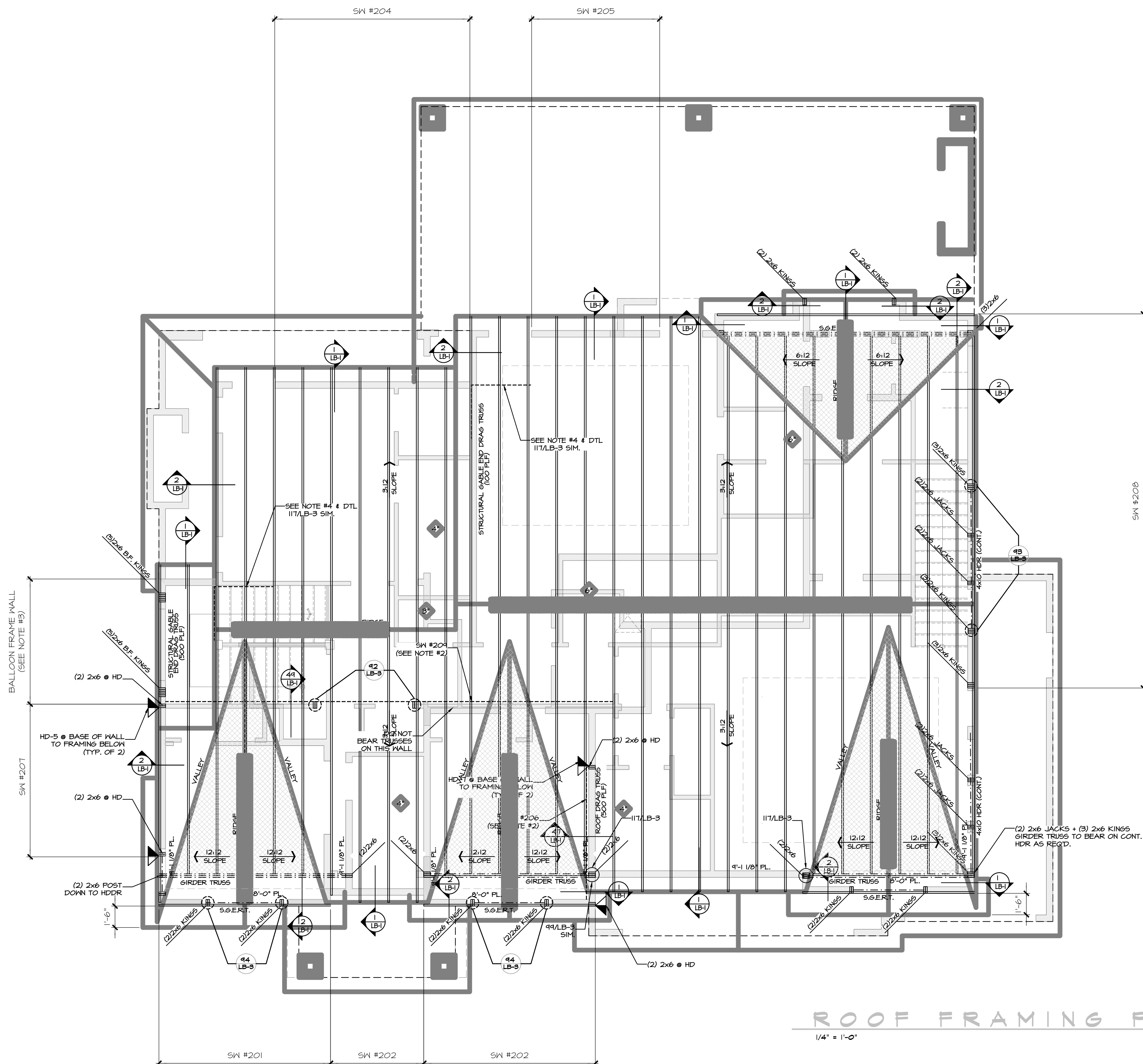
NOTE #1:  
 PROVIDE 7/8" OSB/PLYWOOD SHTG. + FASTEN PER TYP. WALL SHTG. SPECS. (SEE NOTES)

PROVIDE CONT. EXT. SHEATHING BEHIND LOW TRUSSES DOWN TO SECOND FLOOR SOLE PLATE (TYP. @ LOW ROOF)

NOTE #2:  
 PROVIDE 3" O.C. EDGE NAILING (SEE NOTES)

NOTE #3:  
 ALL WALLS 12' OR TALLER SHALL BE 2x6 HF #2 GRADE OR BETTER

NOTE #3:  
 PROVIDE SIMPSON CSI6 STRAP FROM DBL TOP PLATE (13" END LENGTH) TO UNDERSIDE OF 2x BLOCKING BETWEEN TRUSS BTM. CHORDS FOR (3) TRUSS BAYS (6'-0" MIN.). PROVIDE 2x BLOCKING @ TOP CHORD OF TRUSSES + SHTG. BETWEEN TOP & BOT. CHORD BLOCKING FASTENED W/ 2 1/2" x 0.131" NAILS @ 6" O.C. @ SHTG. EDGES. FASTEN ROOF SHTG. TO BLOCKING W/ 2 1/2" x 0.131" NAILS @ 6" O.C.



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

Sheet Title/Description



**FRONT ELEVATION**

1/4" = 1'-0"



**LEFT ELEVATION**

1/4" = 1'-0"

Issue Description	Issue Date	By
	06.06.22	CLIENT REVISIONS
	07.28.22	DESIGN REVISIONS

**PIHA RESIDENCE**  
3745 77th Ave SE  
MERCER ISLAND, WA.

plan name: \_\_\_\_\_  
marketing name: XXXXX  
plan number: \_\_\_\_\_  
mark sys. number: \_\_\_\_\_

Conditions not specifically represented graphically or in writing or which conflict with the 2015 International Residential Code (IRC) and/or those of the local municipality then the current standards and requirements of each respectively shall govern.

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Submittal Date \_\_\_\_\_

Sheet Title/Description \_\_\_\_\_

Design Firm \_\_\_\_\_

RCR  
Drawn by: \_\_\_\_\_

SK  
Checked by: \_\_\_\_\_

1/4"=1'-0" (48)  
Primary Scale

**A10**

of .28

Sheet Title/Description

Issue Description	Issue Date	By
CLIENT REVISIONS	06.06.22	
DESIGN REVISIONS	07.28.22	



**REAR ELEVATION**  
1/4" = 1'-0"



**RIGHT ELEVATION**  
1/4" = 1'-0"

**PIHA RESIDENCE**  
3745 77th Ave SE  
MERCER ISLAND, WA.

plan name:  
marketing name: XXXXX  
plan number: -  
mark sys. number: -

Conditions not specifically represented graphically or in writing or which conflict with the 2015 International Residential Code (IRC) and/or those of the local municipality then the current standards and requirements of each respectively shall govern.

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Submittal Date

Sheet Title/Description

Design Firm

RCR  
Drawn by:

SK  
Checked by:

1/4"=1'-0" (48)  
Primary Scale

**A11**  
of .28

Sheet Title/Description



7525 SE 24th St., 487  
Mercer Island, WA 98040  
425.266.9100

Issue	Issue Date	By	Description

PIHA RESIDENCE  
3745 77th Ave SE  
MERCER ISLAND, WA.

plan name:	
marketing name:	XXXXX
plan number:	
mark sys. number:	

Conditions not specifically represented graphically or in writing or which conflict with the 2015 International Residential Code (IRC) and/or those of the local municipality then the current standards and requirements of each respectively shall govern.

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Submittal Date

Sheet Title/Description

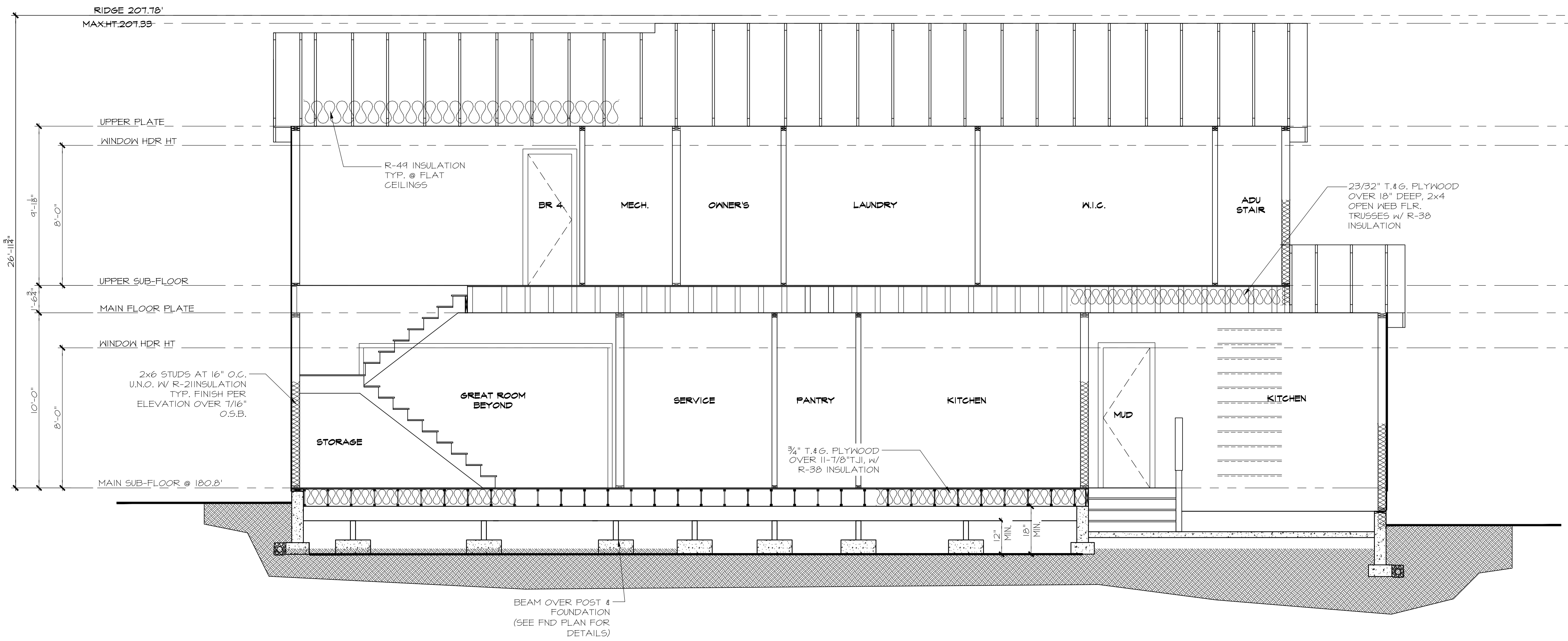
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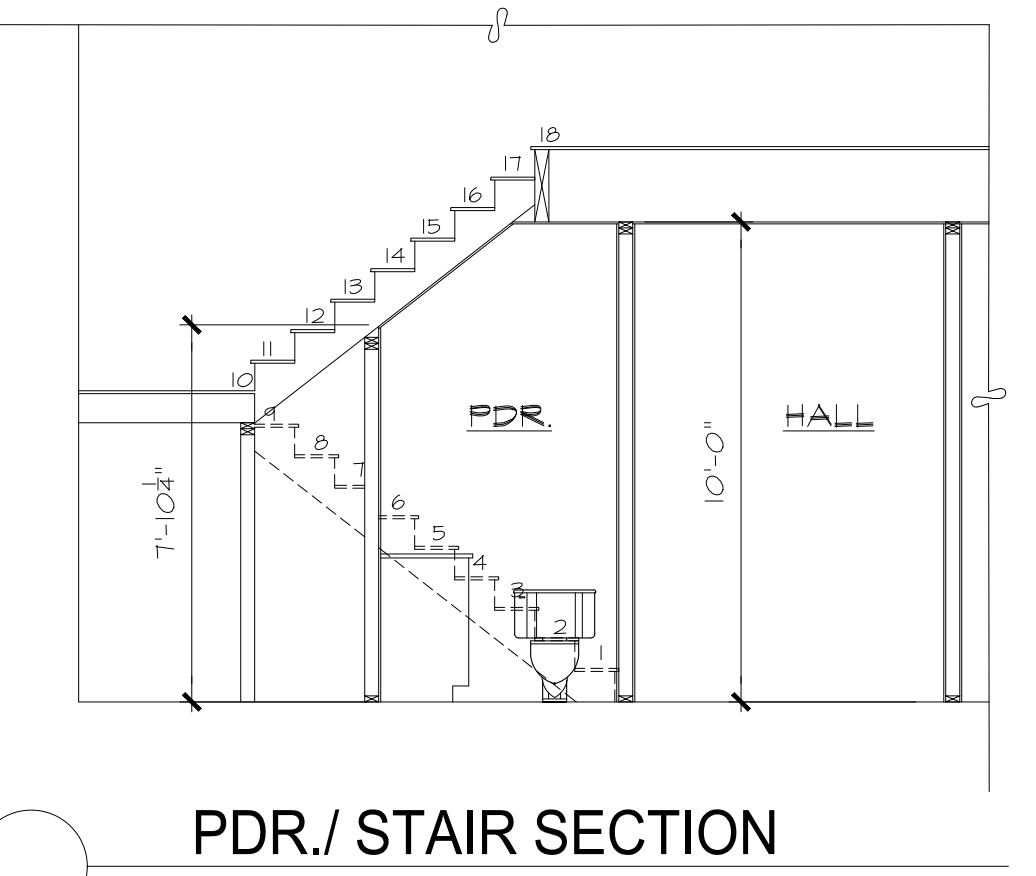
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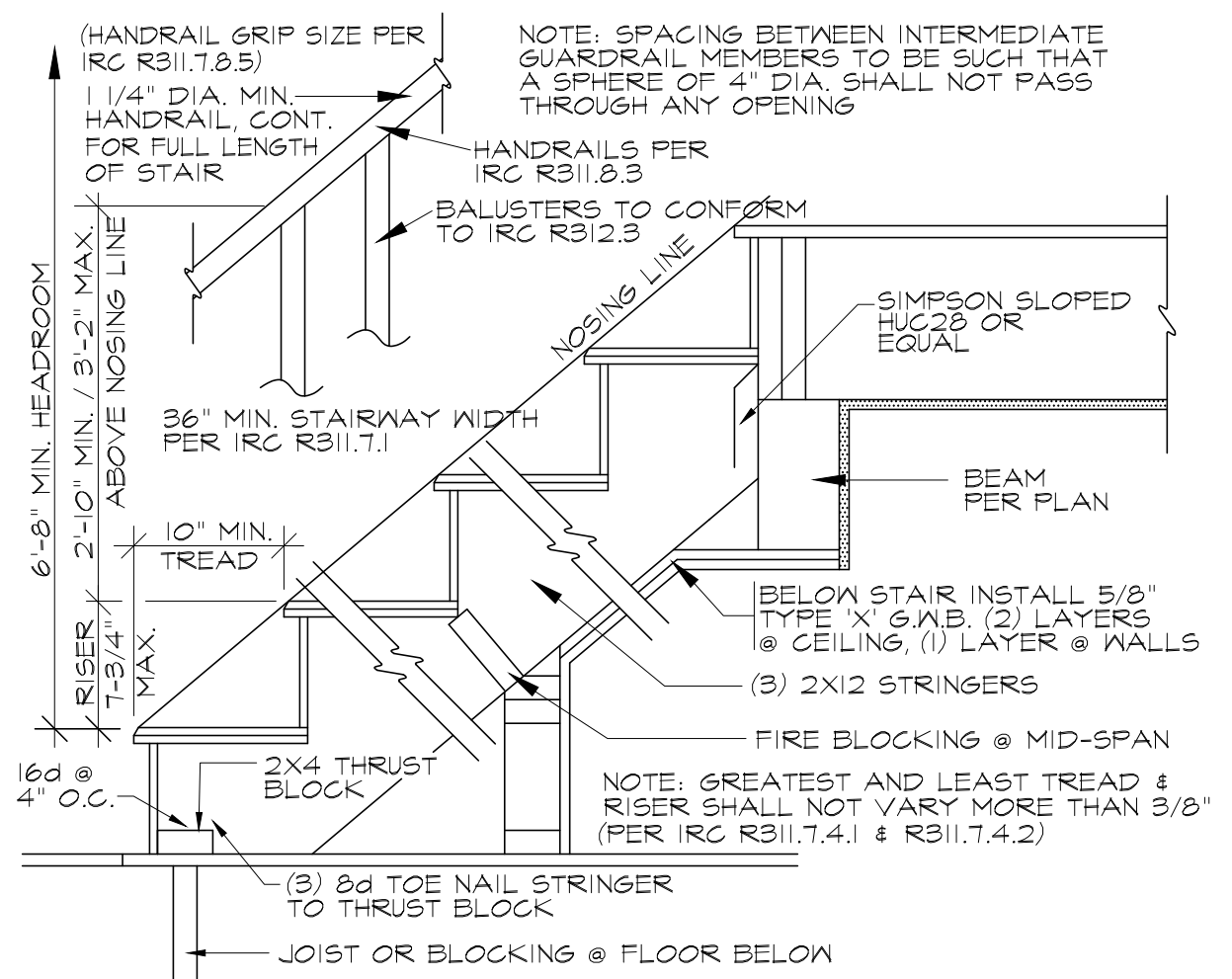
A12  
of .28



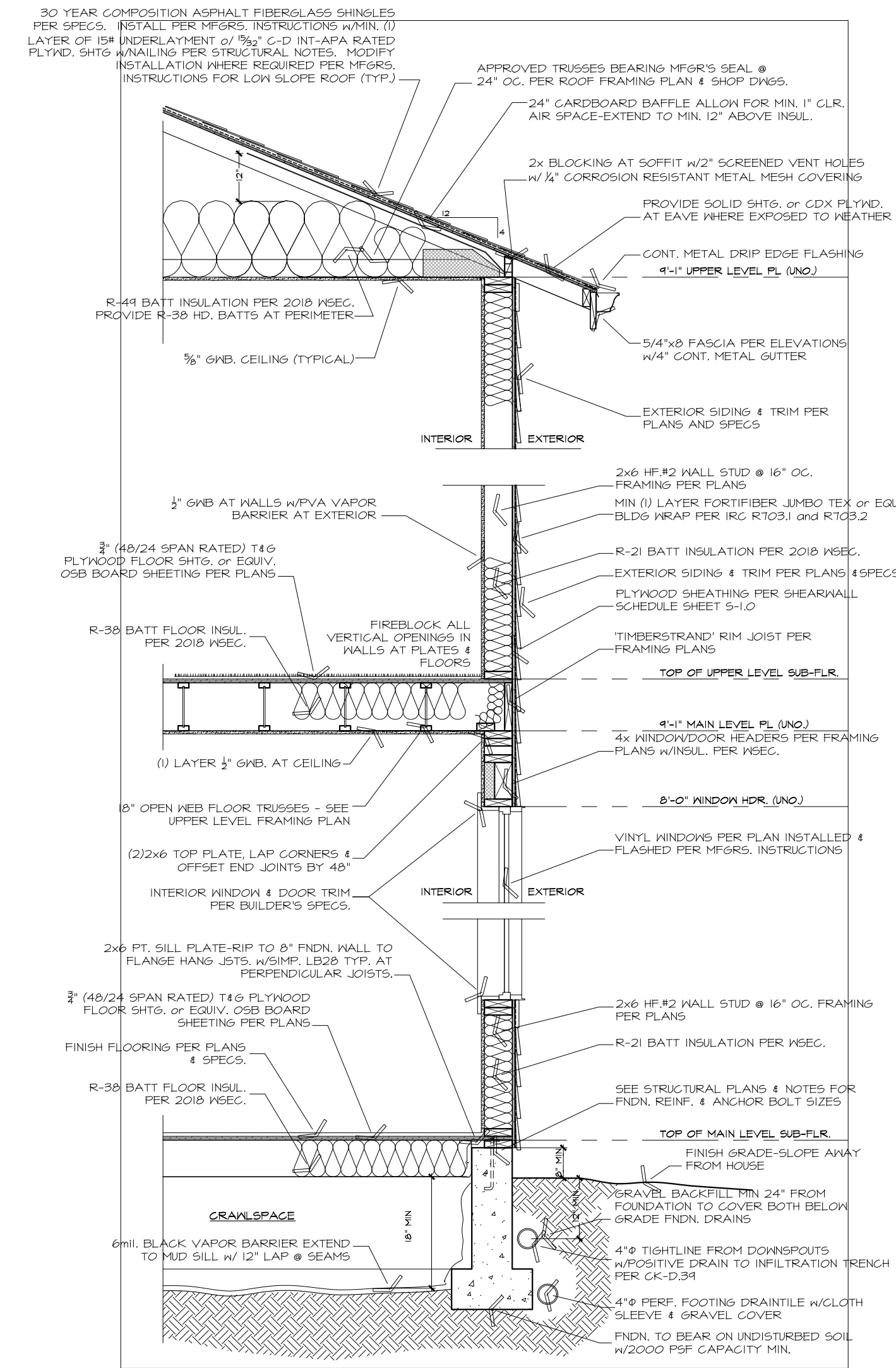
A BUILDING SECTION  
1/4" = 1'-0"



PDR./ STAIR SECTION



TYP. STAIR SECTION  
1/4" = 1'-0"



5 TYPICAL EXTERIOR WALL SECTION  
SCALE: 1" = 1'-0"

Sheet Title/Description

### BASEMENT SLAB

4" CONC. SLAB ON 6 MIL VAPOR BARRIER ON 4" MIN. GRANULAR FILL ON 95% COMPACTED FILL/VIRGIN SOIL

### GARAGE SLAB

4" CONC. SLAB ON 6 MIL VAPOR BARRIER ON 4" MIN. GRANULAR FILL ON 95% COMPACTED FILL/VIRGIN SOIL

### PORCH SLAB

4" CONC. SLAB ON GRADE ON 6 MIL VAPOR BARRIER ON 4" MIN. GRANULAR FILL ON 95% COMPACTED FILL/VIRGIN SOIL

### GENERAL STRUCTURAL NOTES

#### FOUNDATION

- DESIGN IS BASED ON 2018 INTERNATIONAL RESIDENTIAL CODE & 2018 INTERNATIONAL BUILDING CODE
- DESIGN LOADS:
  - SOIL: 2,000 PSF ALLOWABLE BEARING PRESSURE
- CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS IN 28 DAYS, UNO:
  - FC = 2500 psf: FOUNDATION WALLS\*
  - 2500 psf: FOOTINGS\*\*
  - 2500 psf: INTERIOR SLABS ON GRADE
  - 3500 psf: GARAGE & EXT. SLABS ON GRADE
  - fy = 60,000 psi
- UTILIZE 95% SACK 2500 PSI CONCRETE MIXES THAT ARE EQUIVALENT TO 3,000 PSI CONCRETE FOR WEATHERING POTENTIAL
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.
- FOUNDATION WALL DESIGN IS BASED ON BACKFILL SOIL CLASSIFICATIONS OF SG, ML, CL, OR CL (60 pcf) SOIL.
- TYPICAL REINFORCEMENT DETAILS: LAP ALL REBAR 24" MIN; BEND BARS AND LAP AT CORNERS; PROVIDE 6" HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT; PROVIDE 3" MINIMUM COVER AT THE BOTTOM BARS AND 1/2" COVER AT THE SIDES.
- FOUNDATION WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY EITHER ADEQUATE TEMPORARY BRACING OR INSTALLATION OF FIRST FLOOR DECK.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE. CONSULT SOILS REPORT/ LOCAL MUNICIPALITY FOR MINIMUM DEPTH BELOW GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP. (5'-0" O.C.)
- FASTEN SILL PLATES TO FOUNDATION WALLS WITH 3/8" DIA. ANCHOR BOLTS W/ MIN. 3"x3"x1/2" PLATE WASHERS (EDGE OF WASHER TO BE LOCATED WITHIN 1/2" OF EXTERIOR EDGE OF SILL PLATE) & NUTS @ 6'-0" O.C. @ 2-STORY & 4'-0" O.C. @ 3-STORY CONDITIONS W/ 7" MIN. EMBEDMENT INTO CONC. PROVIDE A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAXIMUM FROM PLATE ENDS, UNO. (SEE FIG. DETAILS).
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR MASONRY FOUNDATION SHALL BE PRESERVATIVE TREATED HEM FIR #2.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORDINATE.
- ARCH/BUILDER TO VERIFY ALL DIMENSIONS

### HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
▶ HD-1	SIMPSON 5THD4 (RJ) HOLD-DOWN
▶ HD-5	SIMPSON C616 STRAP TIE (14" END LENGTH)
▶ HD-6	SIMPSON MSTC40 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UNO.)
▶ HD-7	SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM UNO.)

### MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

### ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSSES, FLOOR TRUSSES AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW UNLESS NOTED OTHERWISE ON PLAN. MULHERN & KULP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO M&K FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

- TRUSSES SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES OR GIRDER TRUSSES DOES NOT EXCEED THE FOLLOWING:
- ROOF TRUSSES:
    - 1/4" DEAD LOAD
  - FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
    - 16" DEAD LOAD
  - FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS:
    - LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD, (NOT DIFFERENTIAL DEFLECTION)

### LOADING AND DESIGN PARAMETERS

GRAVITY DESIGN LOADS:	
DEAD LOAD (PSF):	
ROOF TRUSS TOP CHORD :	10
ROOF TRUSS BOTTOM CHORD :	7
FLOOR (TRUSSES) :	15
FLOOR (JOISTS) :	10
DECK (JOISTS) :	10
TILE FLOORS :	10
LIVE LOAD (PSF):	
ROOF :	20
RESIDENTIAL LIVING AREAS :	40
RESIDENTIAL SLEEPING AREAS :	30
RESIDENTIAL WOOD DECKS :	60
GARAGE :	50
SNOW LOAD:	
GROUND SNOW LOAD (Pg) (PSF) :	25
FLAT ROOF SNOW LOAD (Ps) (PSF) :	25
SNOW EXPOSURE FACTOR (Ce) :	0.9
SNOW LOAD IMPORTANCE FACTOR (I) :	1.0
THERMAL FACTOR (Ct) :	1.2
LATERAL DESIGN LOADS:	
WIND LOAD: (IBC 1604)	
SPEED (Va) (MPH) :	100
WIND RISK CATEGORY :	II
IMPORTANCE FACTOR (Iw) :	1.0
EXPOSURE CATEGORY :	C
INTERNAL PRESSURE COEFF. (GCp) :	±0.18
TOPOGRAPHIC FACTOR (Kz) :	1.6
SEISMIC LOAD: (IBC 1613)	
SEISMIC RISK CATEGORY :	II
SEISMIC IMPORTANCE FACTOR (Iw) :	1.0
MAPPED SPECTRAL RESPONSE:	
Ss: 1.415	Sv: 0.442
SITE CLASS :	
Ss: 1.92	(D)DEFAULT
SPECTRAL RESPONSE COEFF. :	
Ss: 1.92	Sv: 0.548
SEISMIC FORCE-RESISTING SYSTEMS :	
LIGHT FRAMED WALLS	
WOOD STRUCTURAL PANELS	
ULTIMATE BASE SHEAR:	
TRANS: 17 K	LONG: 11 K
SEISMIC RESPONSE COEFF. (Ca) :	
TRANS: 0.174	LONG: 0.174
RESPONSE MODIFICATION FACTOR (R) :	
TRANS: 6.5	LONG: 6.5
ANALYSIS PROCEDURE USED:	
EQUIVALENT LATERAL FORCE	

### LATERAL BRACING NOTES

THIS HOME HAS BEEN ENGINEERED TO RESIST LATERAL FORCES RESULTING FROM: 100 MPH WIND SPEED, EXP. C (ASCE 7-16 WIND MAP, PER IRC R301.2.1.1) RISK CAT. 2 & SEISMIC CAT. D2.

110 MPH WIND IN 2018 IRC MAP ENGINEERED DESIGN WAS COMPLETED PER 2018 IBC (SECTION 1609 & 1613) & ASCE 7-16, AS PERMITTED BY R301.1.3 OF THE 2018 IRC. ACCORDINGLY, THIS HOME, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES, AND DOES NOT NEED TO CONFORM TO THE PRESCRIPTIVE PROVISIONS OF R602.10.

### STANDARD EXTERIOR WALL SHEATHING SPECIFICATIONS

(INTERIOR WALL SPECIFICATION WHERE NOTED ON PLANS)

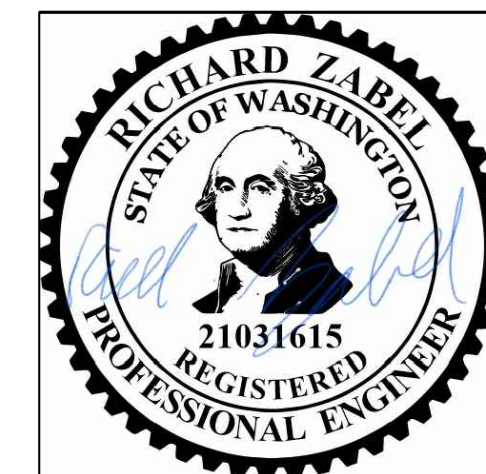
- 1/8" OSB OR 1/2" PLYWOOD:
  - FASTEN SHEATHING W/ 2 1/2"x0.131" NAILS @ 6" O.C. AT ALL SUPPORTED PANEL EDGES AND 12" O.C. IN THE PANEL FIELD. ALL SHEATHING SHEET PANEL EDGES SHALL OCCUR OVER WALL FRAMING MEMBERS OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT PANEL EDGE. ALL EXTERIOR WALLS SHALL BE CONSTRUCTED PER THIS SPECIFICATION UNO. ON PLANS.
- 3" O.C. EDGE NAILING (WHERE NOTED ON PLANS):
  - 1/8" OSB OR 1/2" PLYWOOD:
    - ONLY AT LOCATIONS INDICATED ON PLANS - SHEATH WALL SHOWN WITH 1/8" OSB. FASTEN SHEATHING W/ 2 1/2"x0.131" NAILS @ 3" O.C. AT EDGES AND 12" O.C. AT CENTER. ALL SHEATHING SHEET PANEL EDGES SHALL OCCUR OVER WALL FRAMING MEMBERS OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT PANEL EDGE AND 3" O.C. FASTENING.

#### NOTES:

- LATERAL ANALYSIS ASSUMES STUD SPACING @ 16" O.C.
- ALL SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES FASTENED TOGETHER W/ 3"x0.131" NAILS @ 8" O.C. USE (2) 3/8"x0.131" NAILS AT EACH LAP SPLICED (6) EACH SIDE OF JOINT (TYP. UNO.)
- ALL EXTERIOR WALLS ARE CONTINUOUSLY SHEATHED.
- ALL INTERIOR SHEAR WALLS AND EXTERIOR WALLS ARE SHEATHED ABOVE AND BELOW OPENINGS.

### LEGEND

- ▬ INTERIOR BEARING WALL
- ▬ BEARING WALL ABOVE (B.W.A.) OR SHEAR WALL ABOVE (S.W.A.)
- BEAM / HEADER
- ▬ INTERIOR SHEAR WALL PANEL OR EXTERIOR SHEAR WALL W/ 3" O.C. EDGE NAILING
- ⋯ AREA OF OVERFRAMING
- JL METAL HANGER
- \* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- ▶ INDICATES HOLD-DOWN.



### GENERAL STRUCTURAL NOTES

#### DESIGN PARAMETERS

- DESIGN IS BASED ON 2018 INTERNATIONAL RESIDENTIAL CODE & 2018 INTERNATIONAL BUILDING CODE
- WOOD FRAME ENGINEERING IS BASED ON NDS, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - LATEST EDITION.

#### GENERAL FRAMING

- EXTERIOR BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. (w/ DOUBLE TOP PLATE) HEM FIR (HF) "STUD" GRADE LUMBER, OR BETTER, UNO.
- INTERIOR BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. (w/ DOUBLE TOP PLATE) HEM FIR (HF) "STUD" GRADE LUMBER, OR BETTER, UNO.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x "STUD" GRADE MEMBERS SPACED @ 24" O.C. (MAX.)
- ALL WALLS TALLER THAN TYP. PLATE HEIGHT SHALL BE CONSIDERED BALLOON FRAMED & SHALL BE CONSTRUCTED FROM FLOOR TO UNDERSIDE OF FRAMING AT NEXT LEVEL. BF. WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) HEM FIR (HF) #2 GRADE LUMBER, OR BETTER.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM. THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, UNO.
- ALL 2x6 AND LARGER SOLID SAWN BEAMS/HEADERS SHALL BE HEM FIR #2 (HF #2) OR BETTER. ALL 4x6 AND LARGER SOLID SAWN LUMBER SHALL BE DOUG FIR #2 (DF #2) OR BETTER.
- ALL FRAMING LUMBER SHALL BE KILN DRIED TO 15% MC (KD-15).
- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN GENERAL NOTES, IN DETAILS, OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX. ALLOWED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING SIZE NAILS.
- FASTEN ALL BEAMS TO COLLUMS, OR FLUSH BEAMS TO SUPPORTING BEAMS, W/ (4) 3"x0.131" TOENAILS (MIN), TYP. UNO.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS & HOLD-DOWNS CONTINUOUS TO FOUNDATION/BEARING. BLOCKING TO MATCH POST ABOVE.
- ENGINEERED LUMBER TO MEET OR EXCEED THE FOLLOWING:
  - LVL MEMBERS - Fb=2325 PSI; Fv=310 PSI; E=1.55x10^6 PSI
  - LVL MEMBERS - Fb=2600 PSI; Fv=285 PSI; E=2.0x10^6 PSI
  - GLB MEMBERS - Fb=2400 PSI; Fv=1850 PSI; Fv=265 PSI; E=1.9x10^6 PSI; DF #2; 2-1/4" V4 (UNO.)
  - ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
    - LVL MEMBERS - Fb=2400 PSI; Fv=2500 PSI; E=1.8x10^6 PSI
- FACE NAIL MULTI-PLY 2x BEAMS & HEADERS W/ 3-ROWS OF 3"x0.131" NAILS (MIN) @ 12" O.C. STAGGERED. APPLY NAILING FROM BOTH FACES @ 3-PLY OR MORE CONDITIONS. UTILIZE 2 ROWS OF NAILS FOR 2x6 & 2x8 MEMBERS.
- ALL MEMBERS SPECIFIED AS MULTI-PLY 1/2" SHALL BE FASTENED TOGETHER PER MANUFACTURER. EQUIVALENT WIDTH SOLID MATERIAL MAY BE USED AS EQUAL.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS W/ FAS (MULTI X) PINS OR EQUAL (0.157" DIA. x 2" LONG MIN) @ 16" O.C. STAGGERED, OR 1/2" DIA. BOLTS @ 48" O.C. STAGGERED.
- REFER TO IRC FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP. UNO.

### FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA AND SHALL RUN CONTINUOUS OVER SUPPORTS WHEREVER POSSIBLE. ALL LOADS SHOWN ON PLAN FOR MANUF. DESIGNS ARE ADD LEVEL LOADS, UNO. (EXCLUDES STONE/MARBLE OR NET BED CONSTRUCTED FLOORS - CONTACT M&K FOR EXCLUDED DESIGNS).
- ALL METAL I-JOIST/TRUSS HANGERS SHALL BE SPECIFIED BY I-JOIST/TRUSS MANUFACTURER, UNLESS OTHERWISE NOTED.
- I-JOIST/TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- 2x FLOOR JOISTS HAVE BEEN DESIGNER TO MEET OR EXCEED L/360 LIVE LOAD DEFLECTION CRITERIA.
- TYPICAL 2x JOIST HANGERS (UNO. ON PLANS):
  - SINGLE PLY: SIMPSON LUS210
  - DOUBLES: SIMPSON LUS210-2
- FLOOR SHEATHING SHALL BE 2387' A.P.A. RATED "STUD"-FLOOR 24" O.C. EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GULIE AND 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.
- ALL FLUSH CONNECTIONS SHALL BE CONNECTED WITH HANGER APPROPRIATE FOR MEMBER SIZE, UNO.
- FASTEN HANGERS TO SINGLE PLY FLUSH BEAMS W/ 1/2" LONG NAILS.

### ROOF FRAMING

- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ (4) 3"x0.131" TOENAILS (MIN) & (1) SIMPSON SDNCS600 SCREWS @ ALL BEARING POINTS. PROVIDE (2) SIMPSON SDNCS600 SCREWS AT 2-PLY GIRDER TRUSSES, (3) SIMPSON SDNCS600 SCREWS AT 3-PLY GIRDER TRUSSES AT ALL BEARING POINTS.
- FASTEN EACH ROOF RAFTER TO TOP PLATE WITH (1) SIMPSON SDNCS600 SCREW. PROVIDE (2) SIMPSON SDNCS600 SCREWS AT FLUSH BEAMS IN THE ROOF - AT ALL BEARING POINTS.
- ROOF SHEATHING SHALL BE 7/8" A.P.A. RATED SHEATHING 24/16 EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS W/ 2 1/2" x 0.131" NAILS @ 6" O.C. AT PANEL EDGES & @ 12" O.C. AT INTERMEDIATE SUPPORTS. ROOF SHEATHING SHALL EXTEND BELOW ALL INSTANCES OF OVERFRAMING. BLOCKING SHALL BE INSTALLED AS REQUIRED TO LIMIT ROOF SHEATHING SPANS TO 24" MAX.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPS FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC.
- ALL METAL HANGERS SHALL BE SPECIFIED BY THE TRUSS MANUFACTURER, UNLESS OTHERWISE NOTED.
- ROOF TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- ROOF TRUSS SHOP DRAWINGS & CALCULATIONS SHALL BE PREPARED BY A WASHINGTON STATE LICENSED ENGINEER AND SHALL BE DESIGNED FOR UNBALANCED SNOW LOADING PER ASCE 7-16, SECTION 7.6.
- ERECT AND INSTALL ROOF TRUSSES PER NTCA & TPIS BCSI 1-08 GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.
- FASTEN OVER-FRAMED TRUSS SETS TO TRUSSES BELOW W/ (2) 3"x0.131" TOENAILS AT EA. TRUSS.
- SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (UP TO 6' TRIB.) W/ 2x6 LEDGER FASTENED TO FRAMING W/ (3) 3"x0.131" NAILS @ 16" O.C.
- FASTEN ALL INTERIOR NON-BEARING PARTITION WALLS TO TRUSS BOTTOM CHORD ABOVE WITH SIMPSON STC CLIPS AT 24" O.C. MAX. PROVIDE BLOCKING BETWEEN THE TRUSS BOTTOM CHORDS AS REQUIRED FOR THE PARALLEL CONDITIONS.

seal:

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M&K project number: 154-22002

project R.JZ  
drawn JCL  
issue 02-09-22  
date:

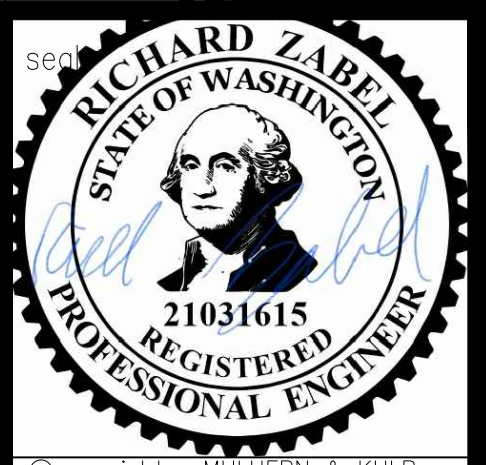
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STRUCTURAL NOTES  
PIHA RESIDENCE  
MERCER ISLAND, WASHINGTON

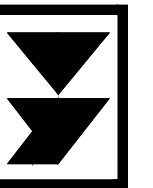
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M&K project number:  
154-22002

project: RJZ  
drawn: JCL  
issue: 02-09-22

date: initial:

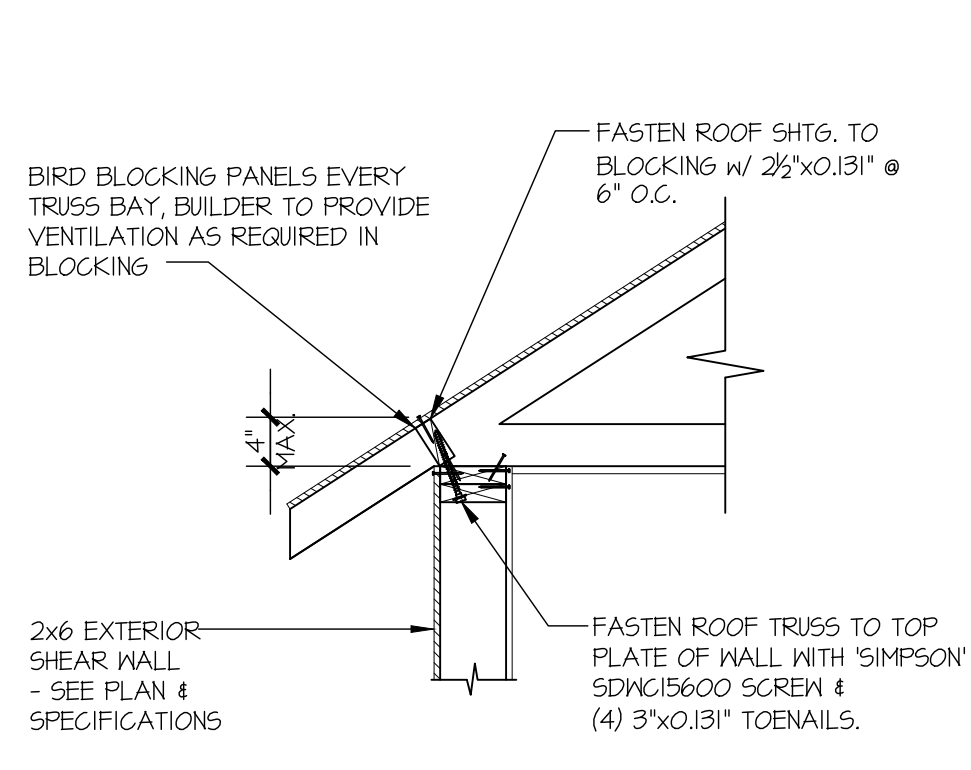
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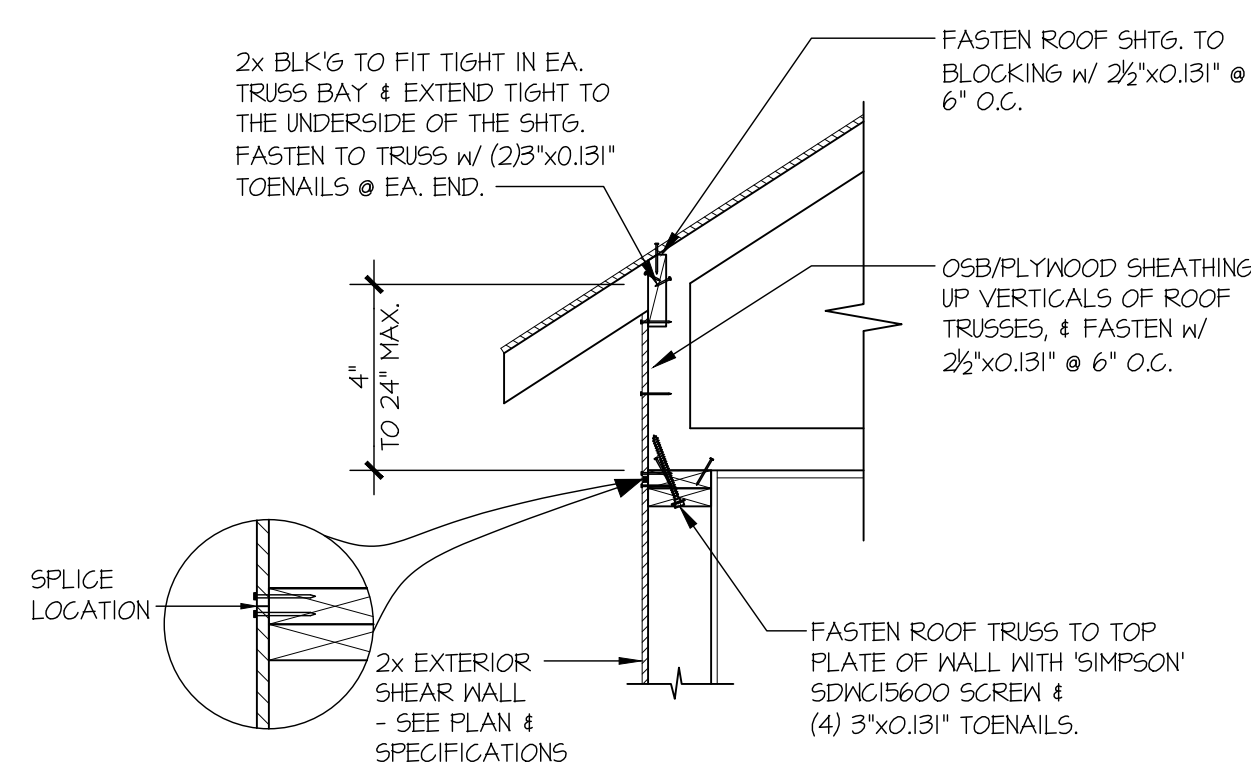
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**PIHA RESIDENCE**  
MERCER ISLAND, WASHINGTON

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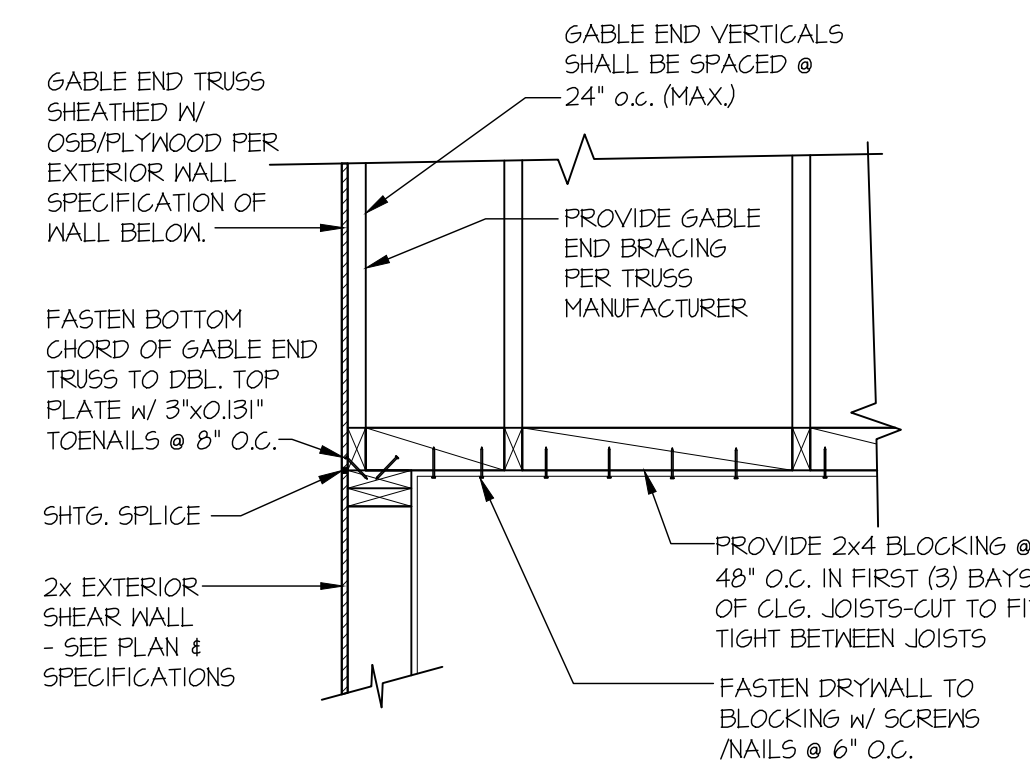
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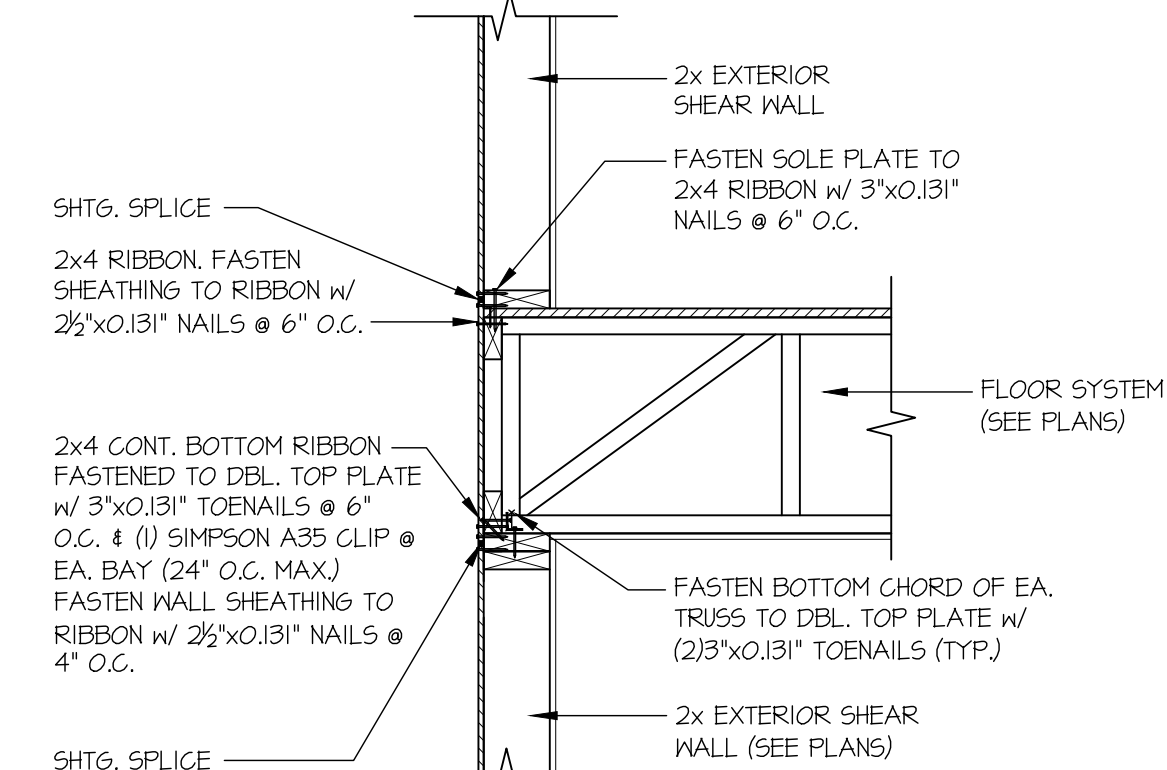
**1** TYPICAL SHEAR TRANSFER DETAIL @ ROOF  
SCALE: 3/4"=1'-0" HEEL HEIGHT LESS THAN 4"



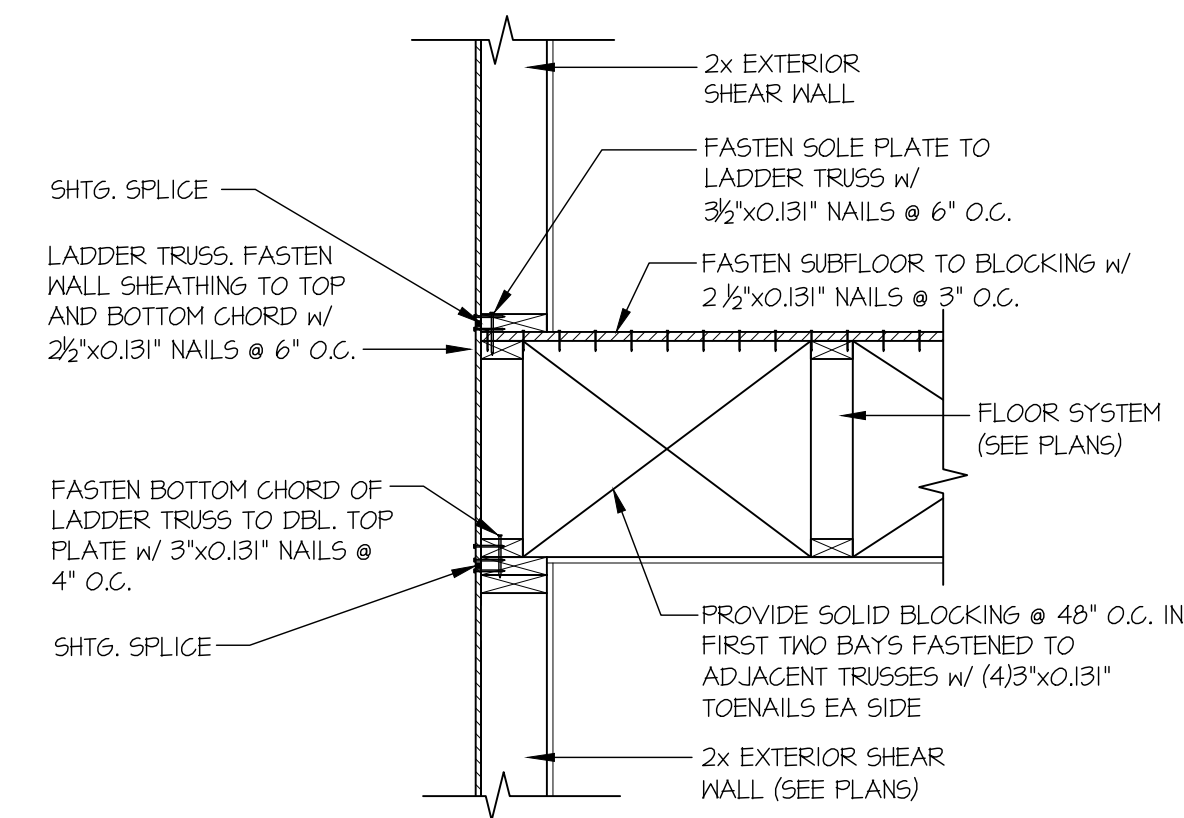
**2** TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS  
SCALE: 3/4"=1'-0" HEEL HEIGHT UP TO 24" MAX.



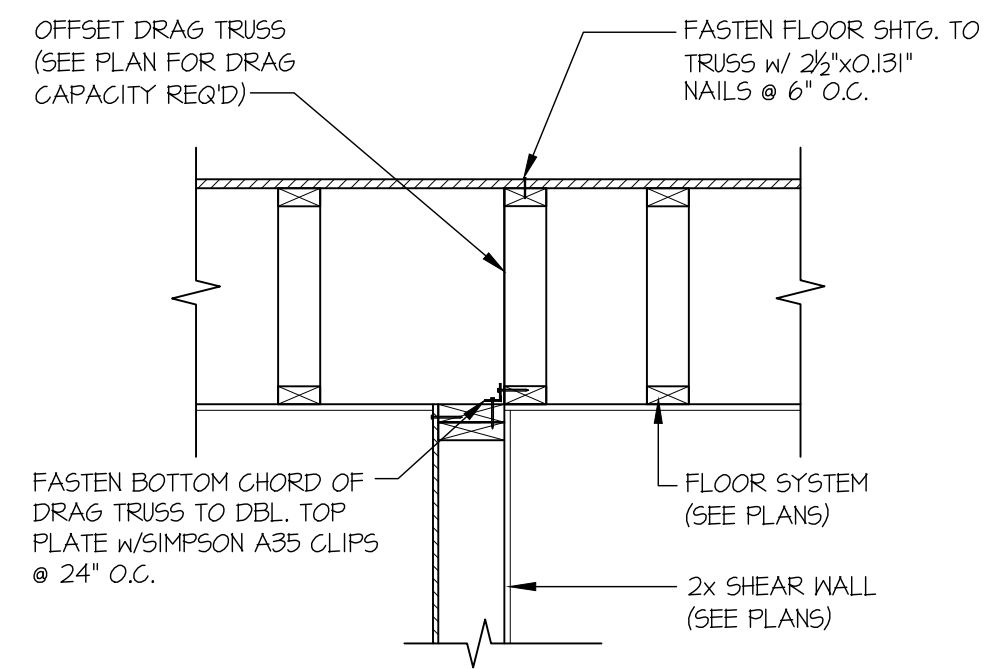
**3** TYPICAL GABLE END DETAIL  
SCALE: 3/4"=1'-0"



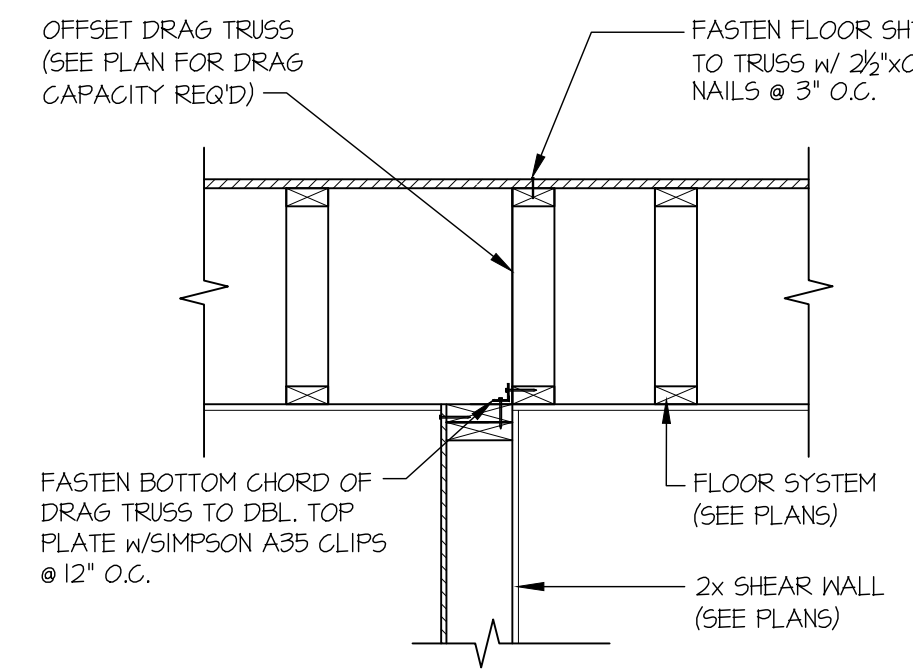
**4** TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL  
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



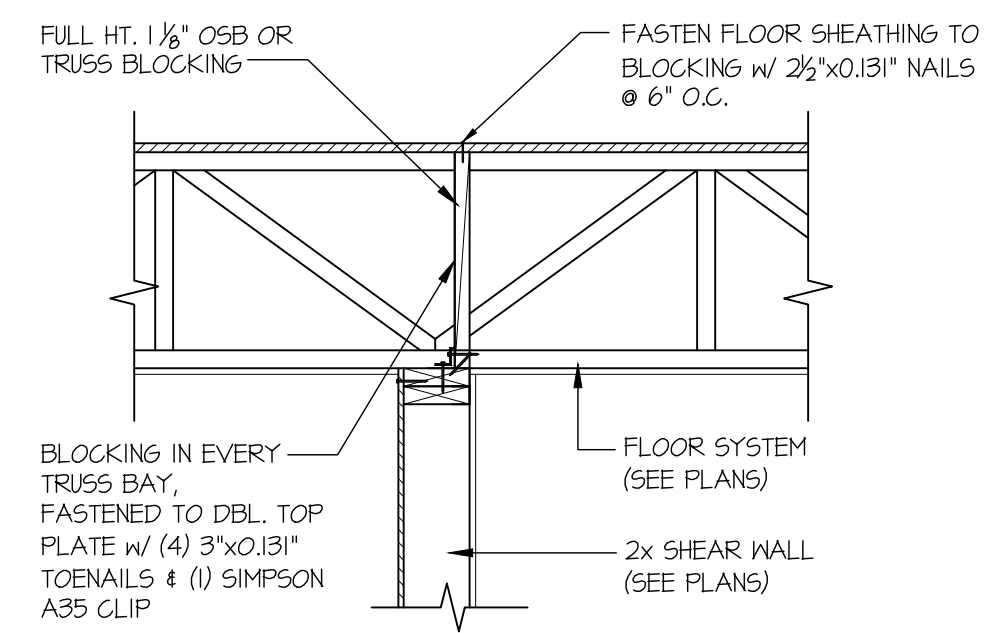
**5** TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL  
SCALE: 3/4"=1'-0" PARALLEL FRAMING



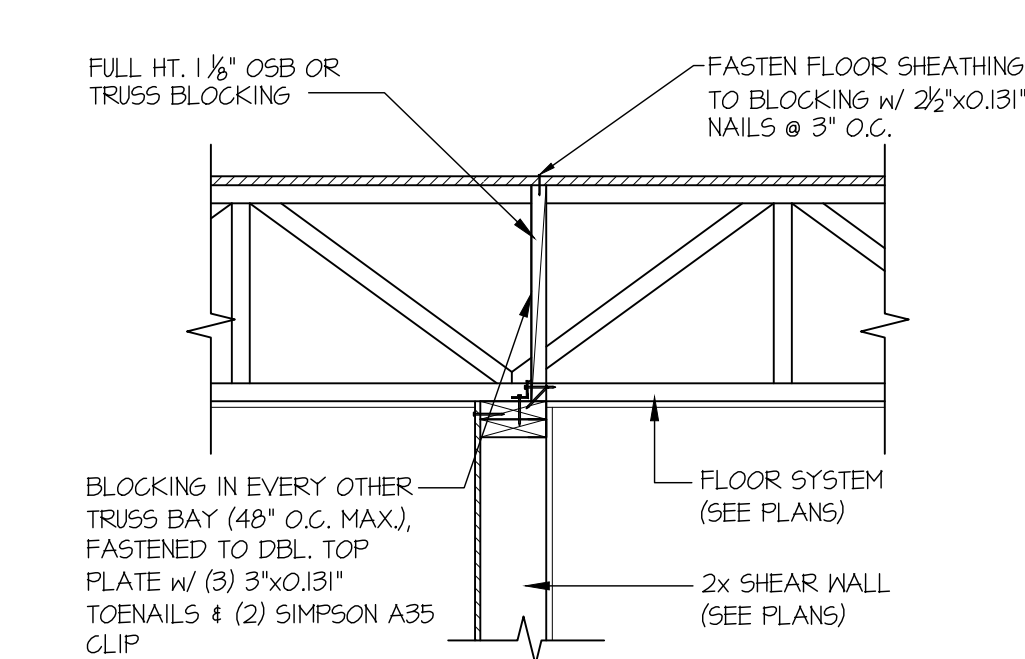
**6** SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW  
SCALE: 3/4"=1'-0"



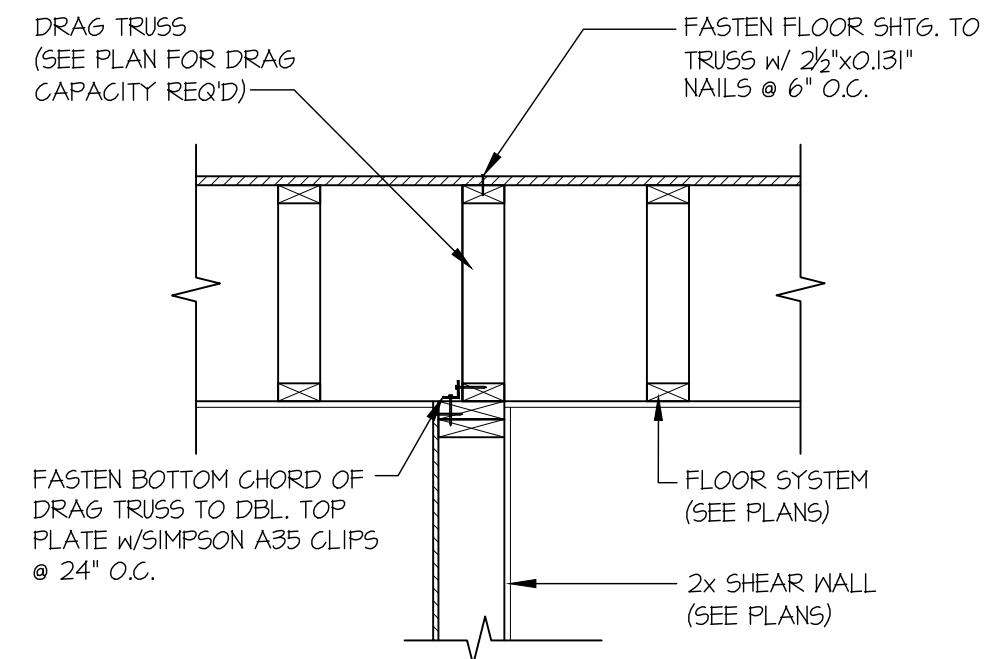
**7** SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW  
SCALE: 3/4"=1'-0"



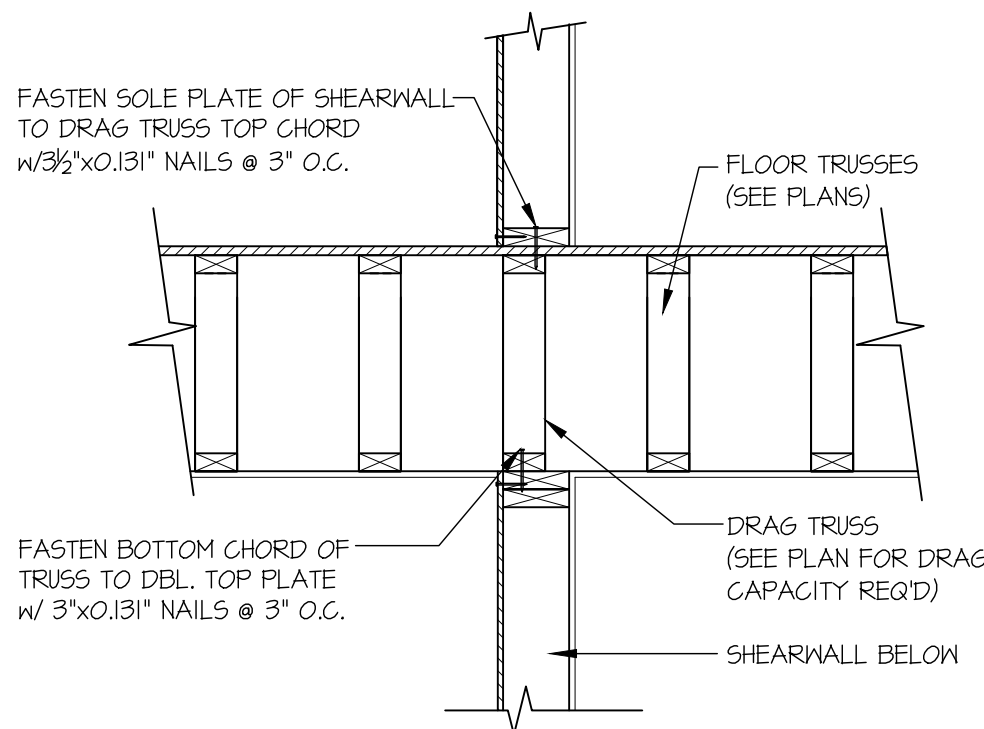
**8** SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW  
SCALE: 3/4"=1'-0"



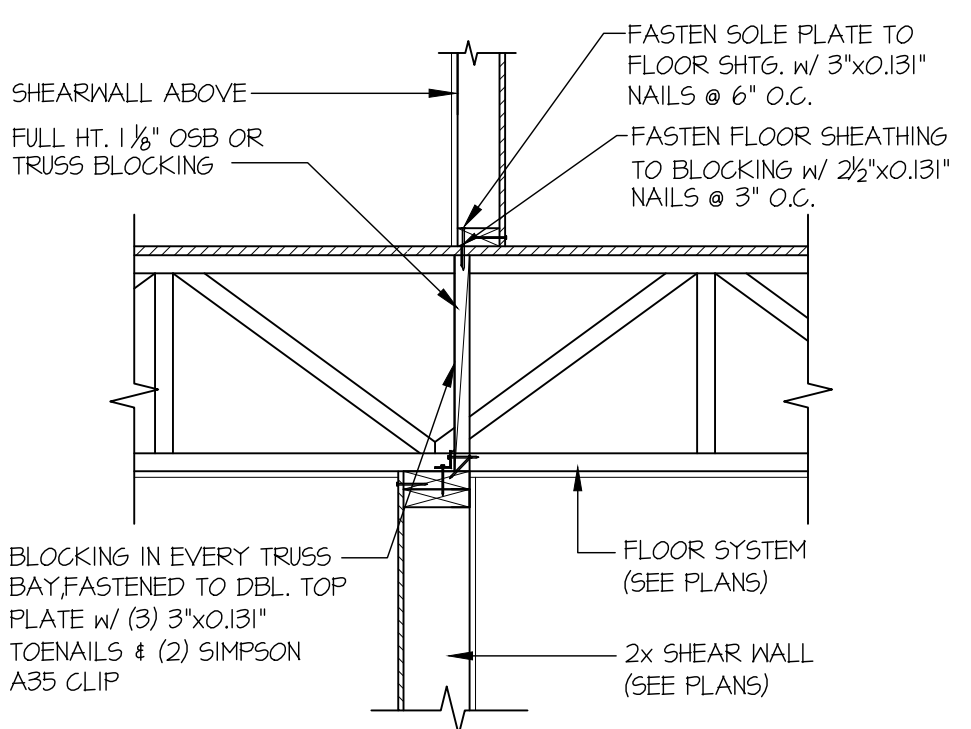
**9** SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW  
SCALE: 3/4"=1'-0"



**10** SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW  
SCALE: 3/4"=1'-0"



**11** SECTION  
SCALE: 3/4"=1'-0"



**12** SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW  
SCALE: 3/4"=1'-0"





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M&K project number:  
154-22002

project: RJZ  
drawn by: JCL  
issue date: 02-09-22

REVISIONS:  
date: initial:

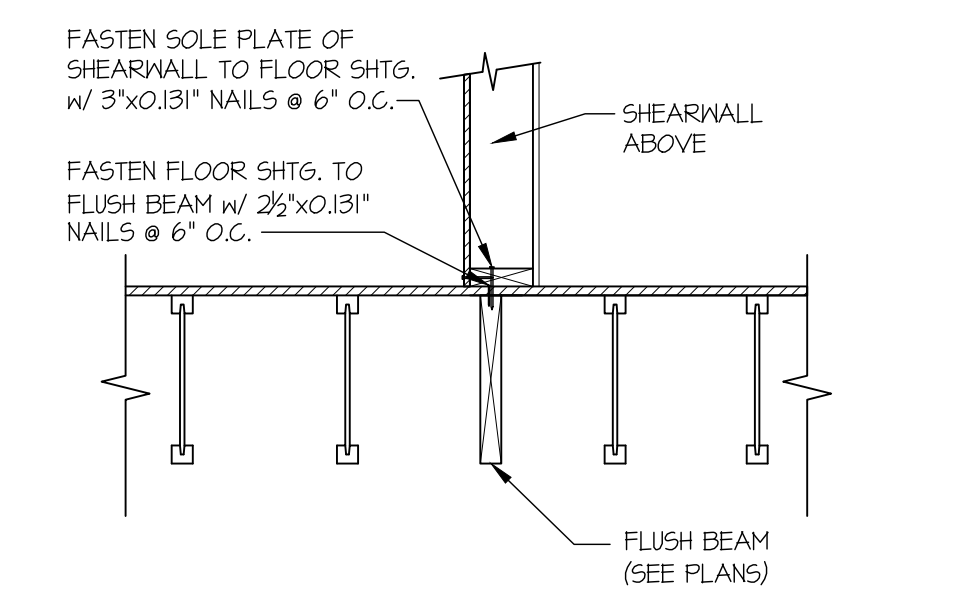


STRUCTURAL DETAILS

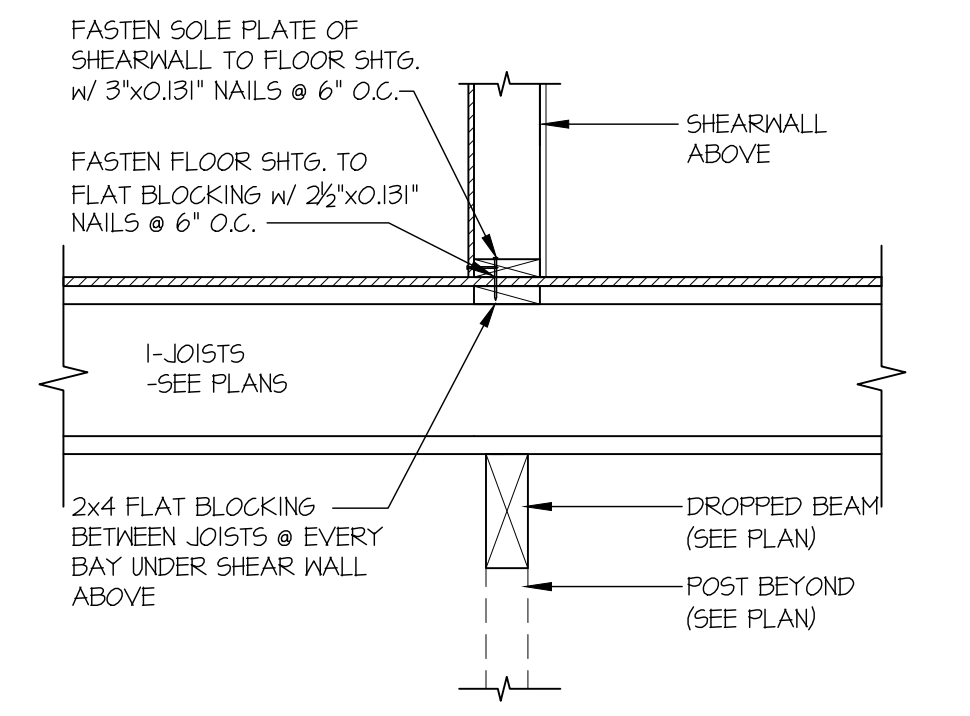
PIHA RESIDENCE  
MERCER ISLAND, WASHINGTON

sheet:

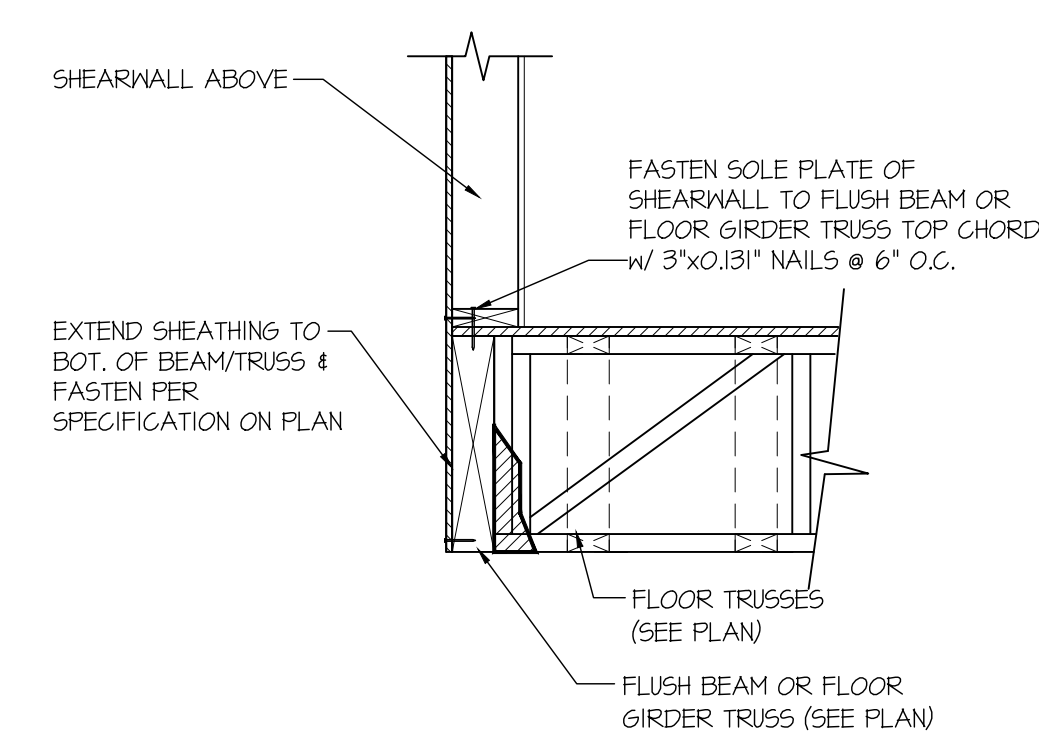
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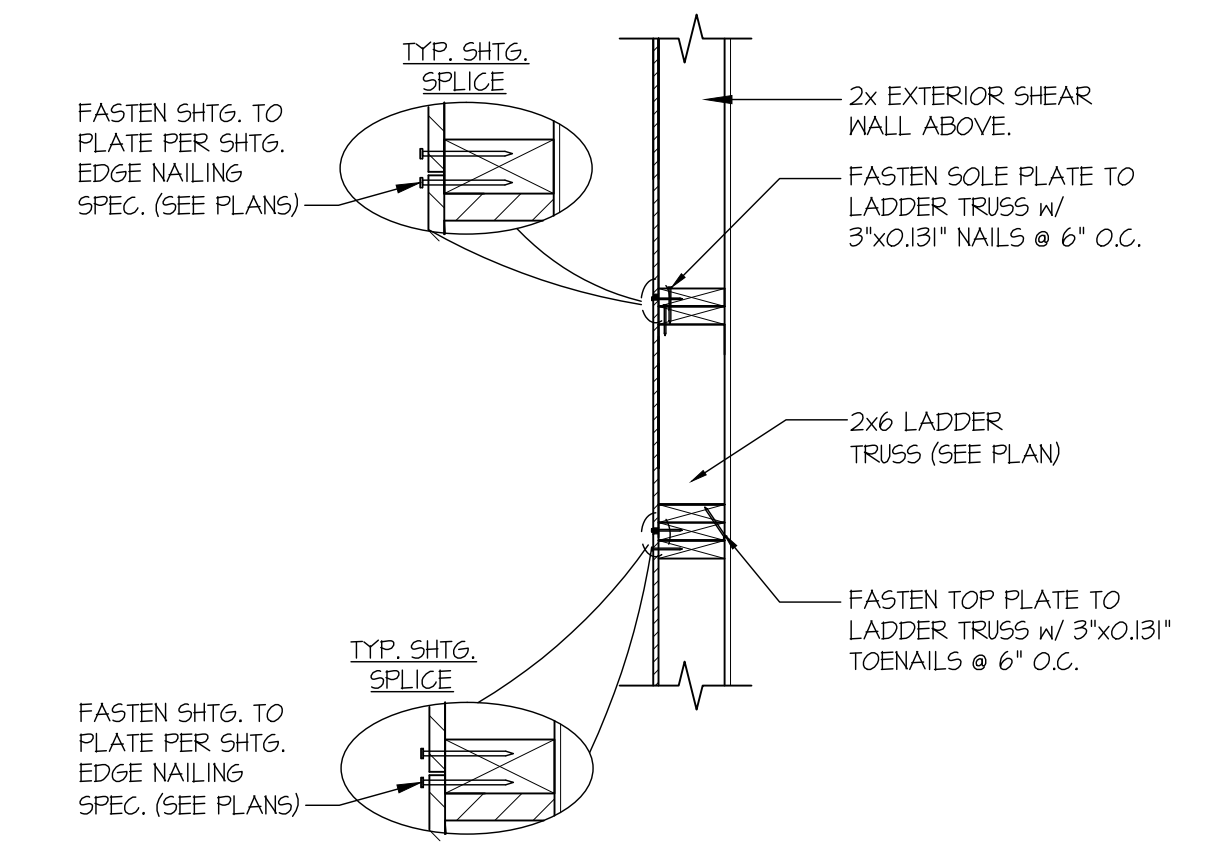
19 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE  
SCALE: 3/4"=1'-0" PARALLEL FRAMING



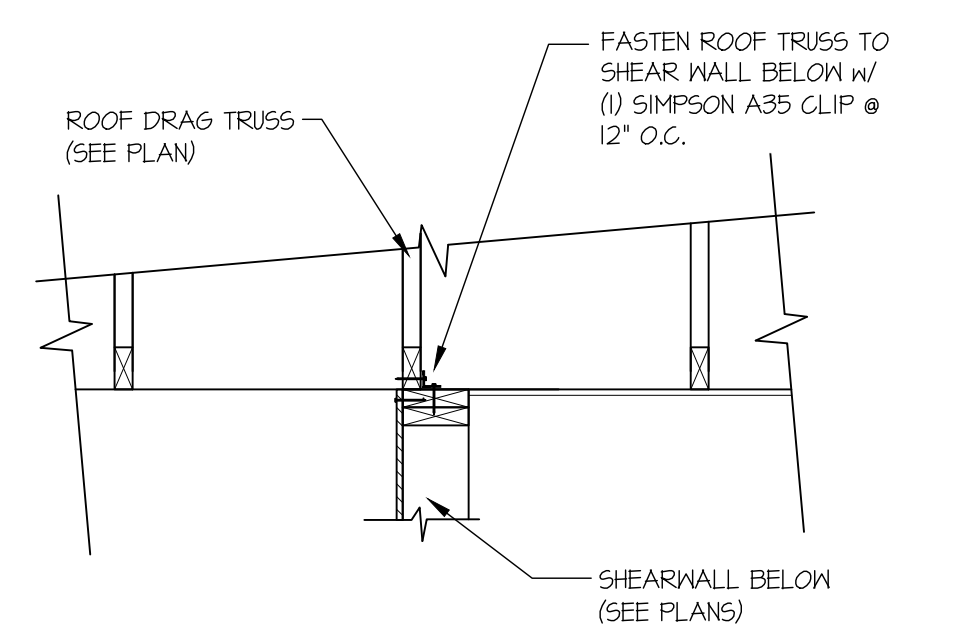
20 SHEAR TRANSFER DETAIL @ INT. SHEARWALL ABOVE  
SCALE: 3/4"=1'-0"



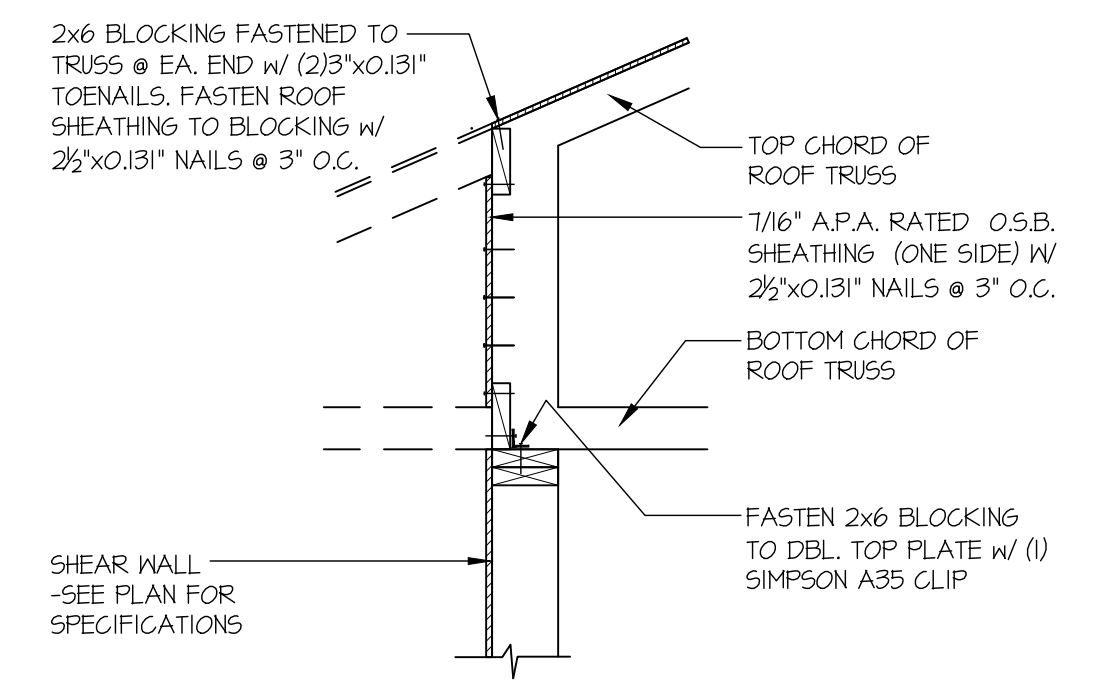
35 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/4"=1'-0"



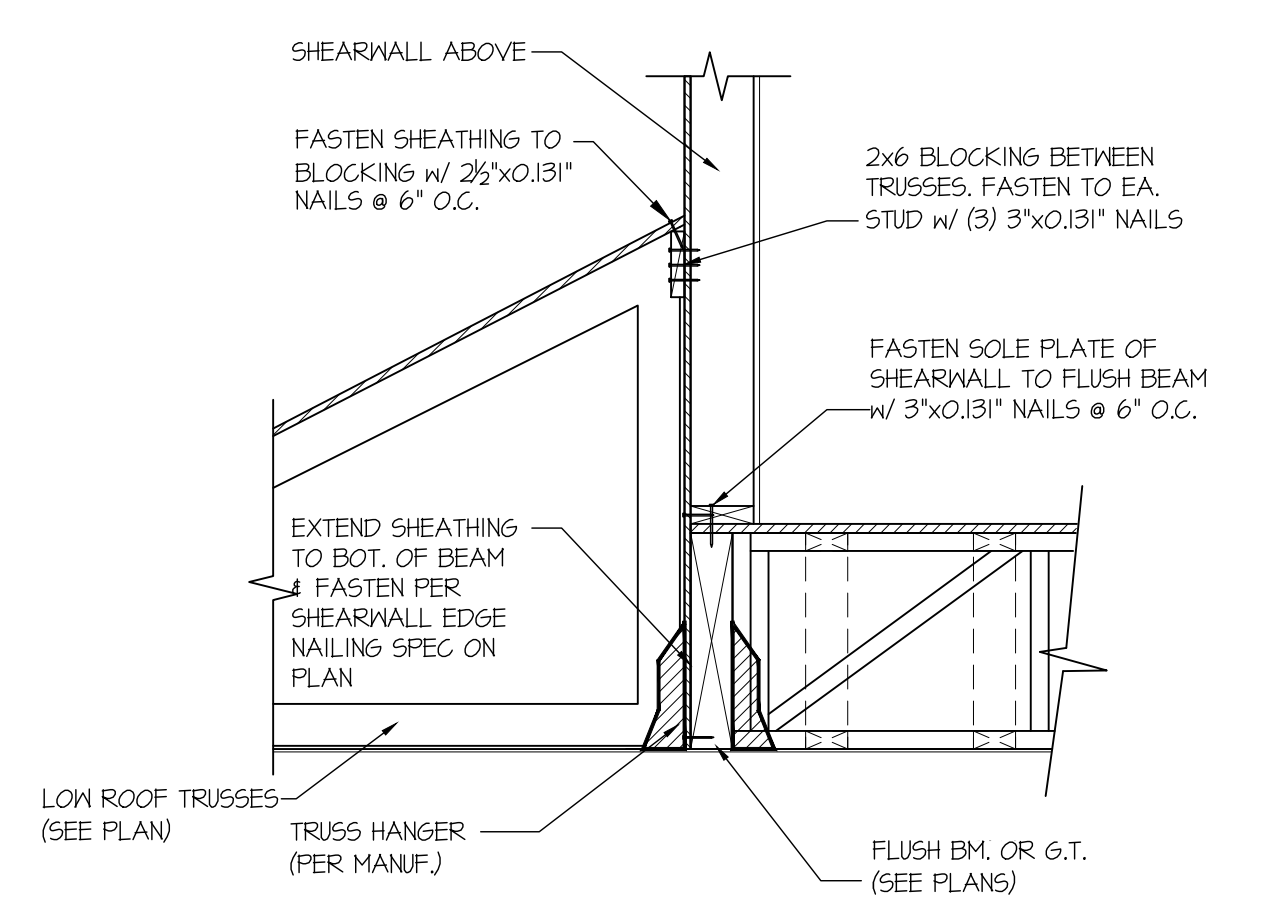
41 TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE LADDER TRUSS  
SCALE: 3/4"=1'-0"



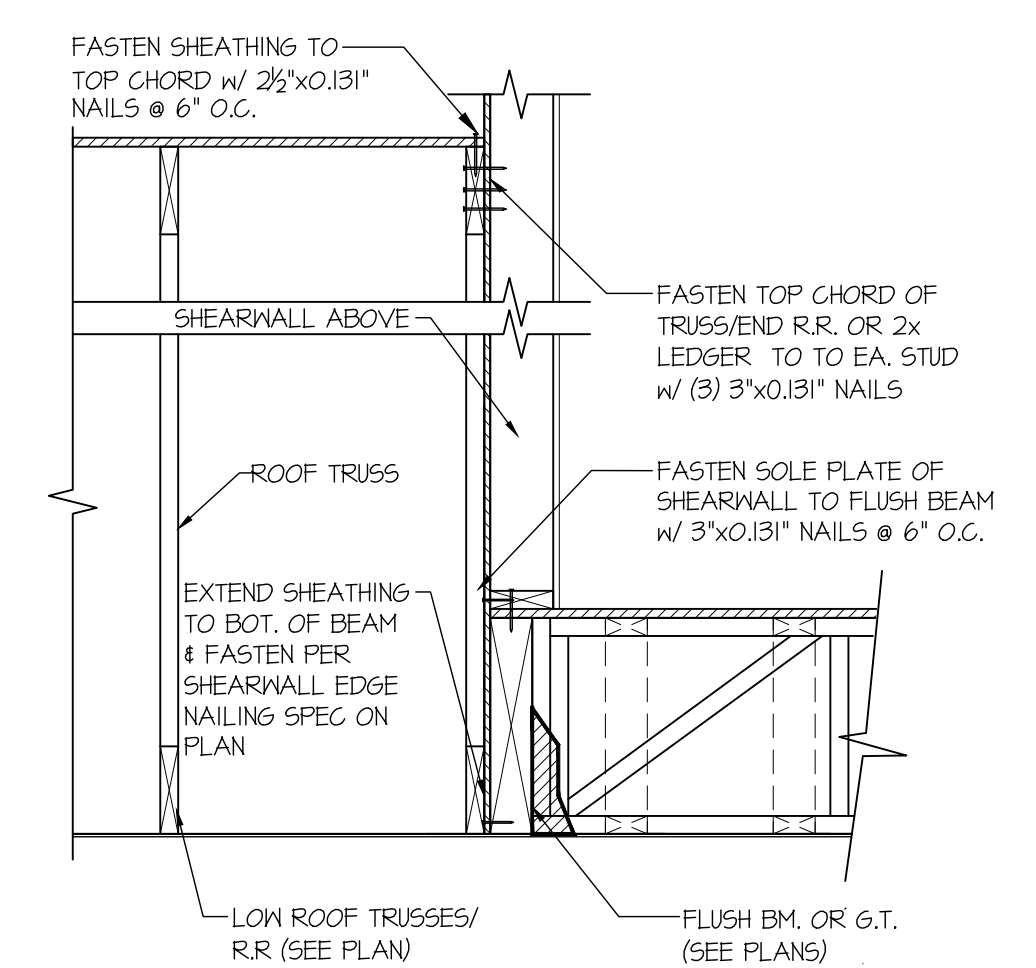
47 SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW  
SCALE: 3/4"=1'-0"



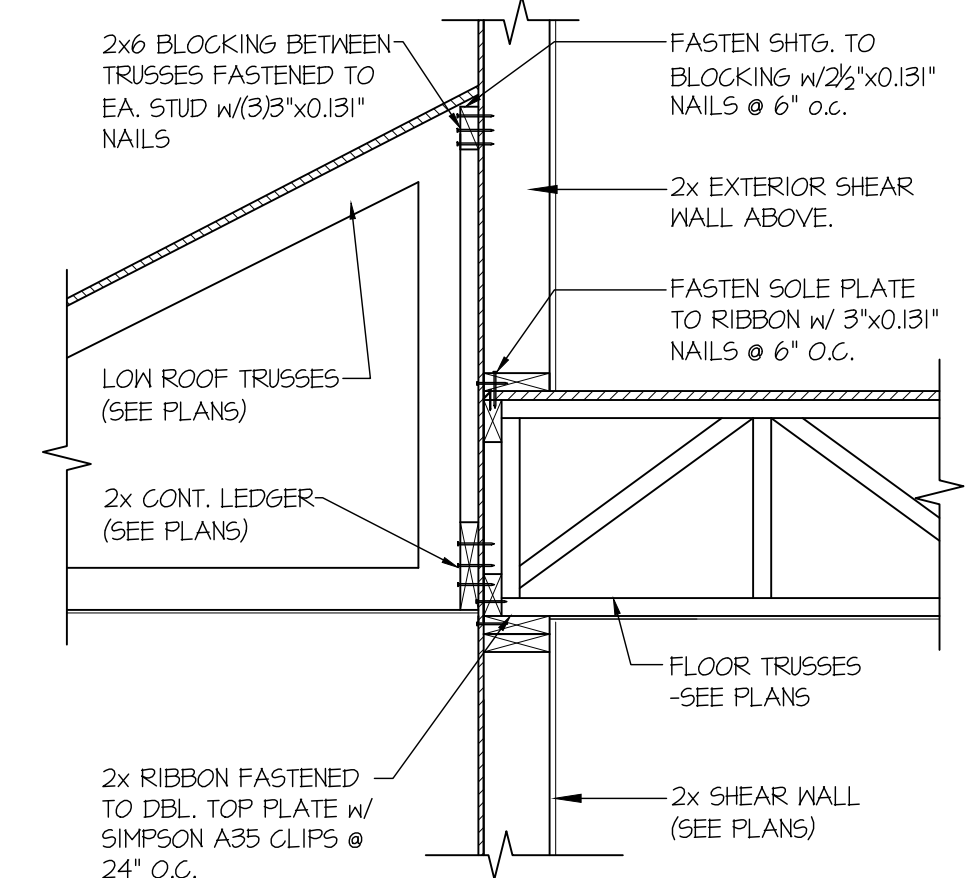
49 SHEAR TRANSFER DETAIL @ SHEARWALL BELOW  
SCALE: 3/4"=1'-0"



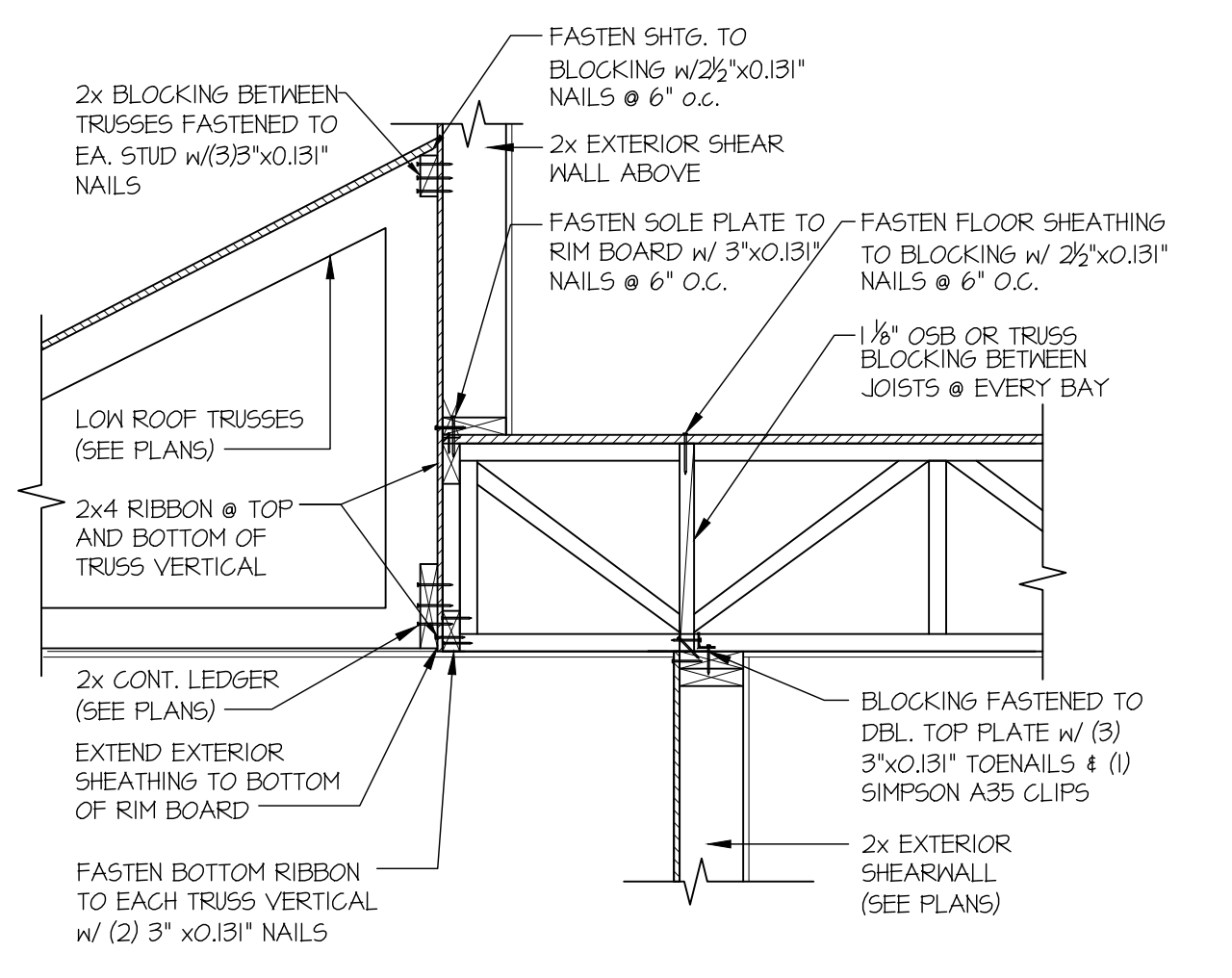
53 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/4"=1'-0"



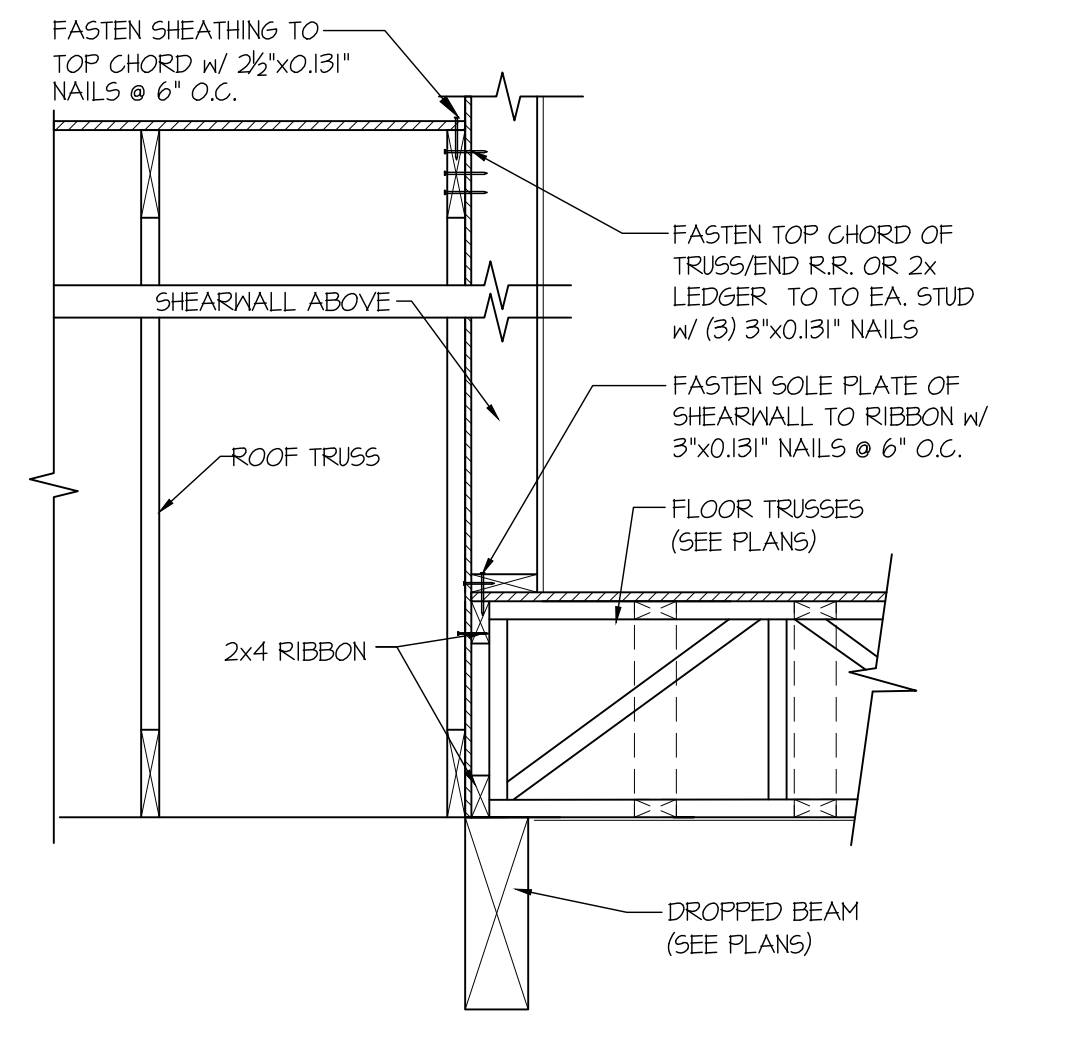
59 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/4"=1'-0"



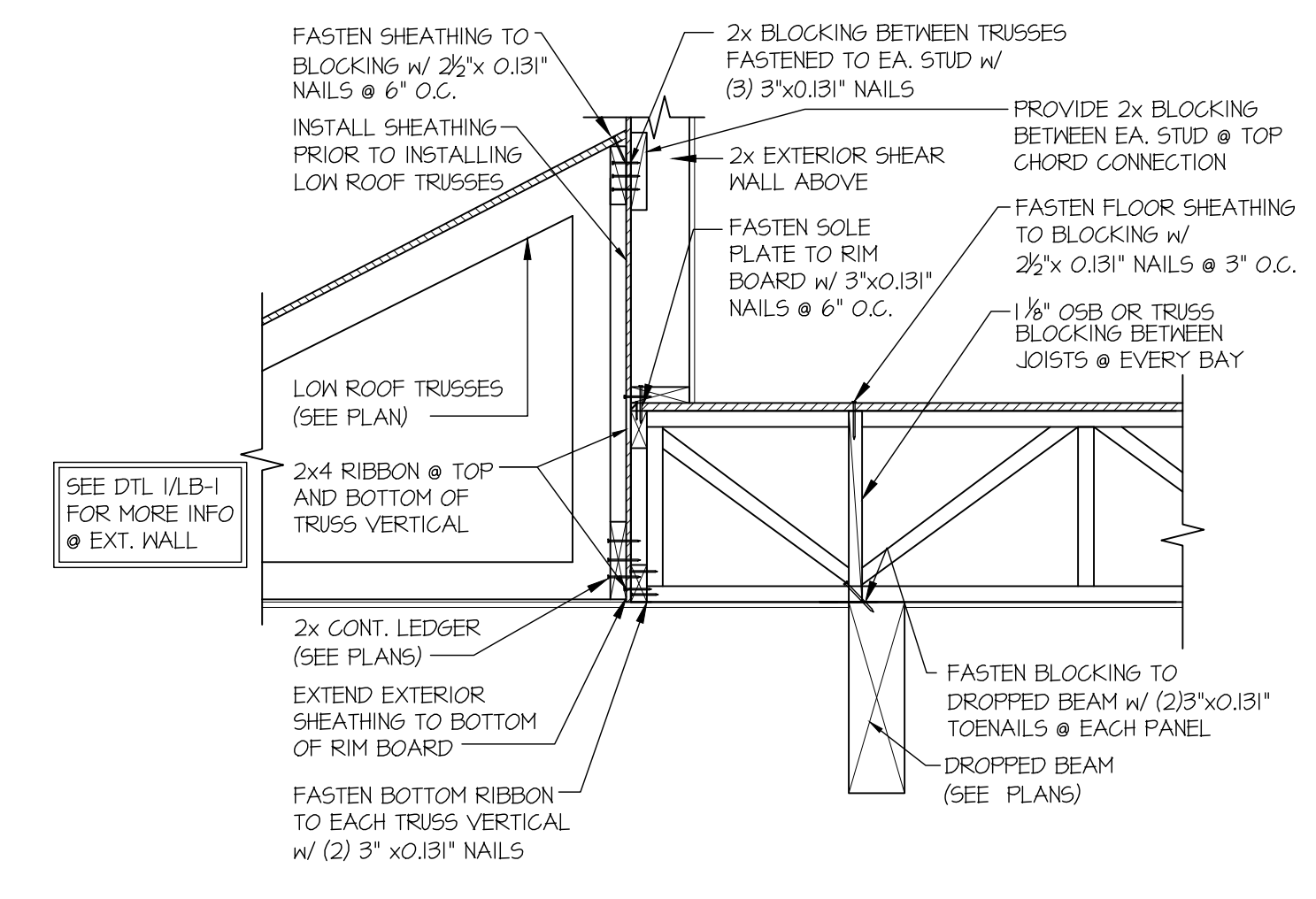
60 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS  
SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



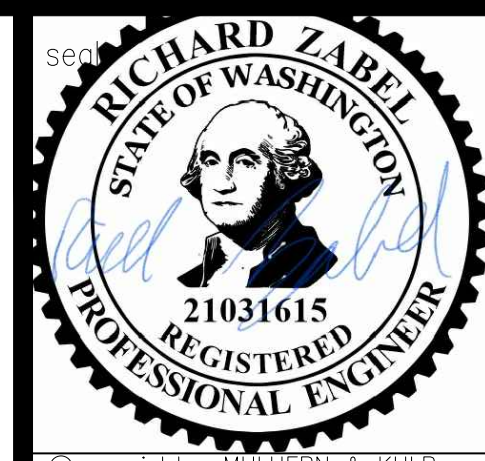
63 TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE  
SCALE: 3/4"=1'-0"



65 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/4"=1'-0"



77 TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE  
SCALE: 3/4"=1'-0"



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M&K project number:  
154-22002

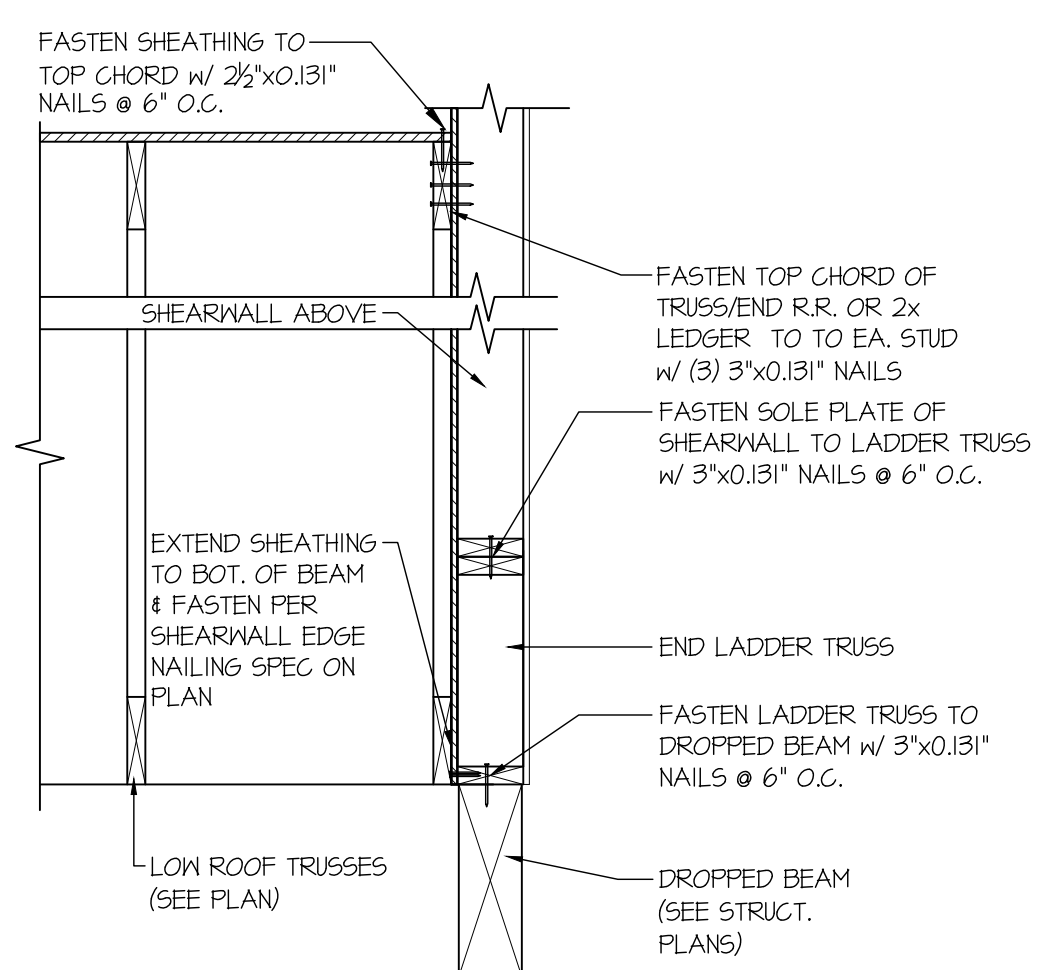
project: RJZ  
drawn by: JCL  
issue date: 02-09-22

REVISIONS:  
date: initial:

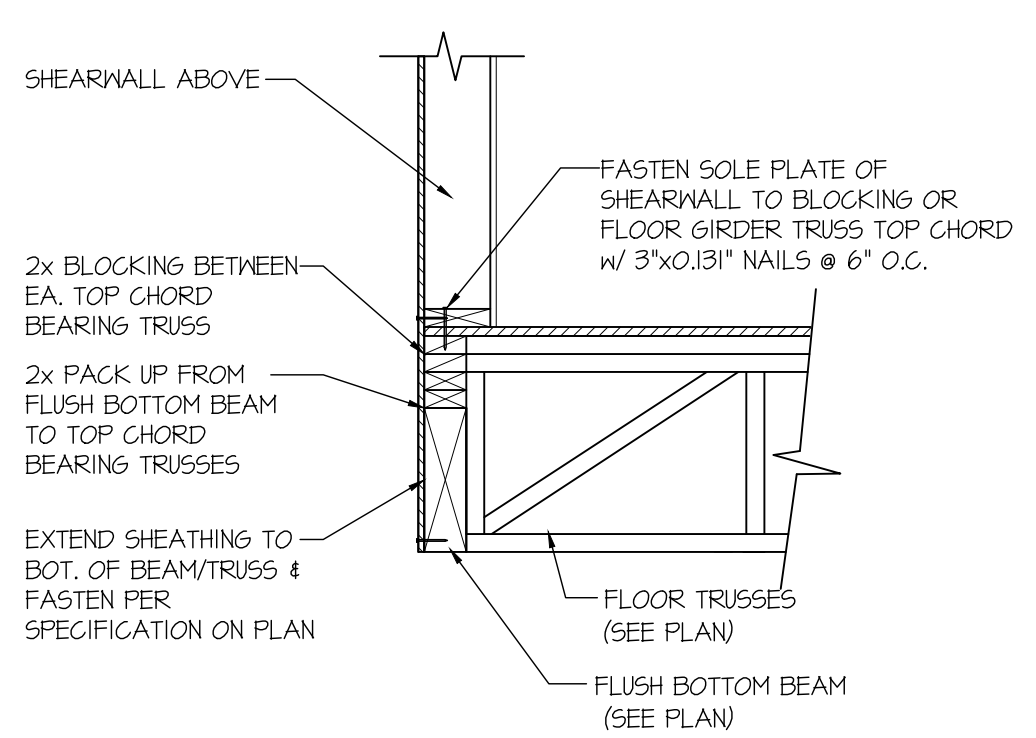


STRUCTURAL DETAILS  
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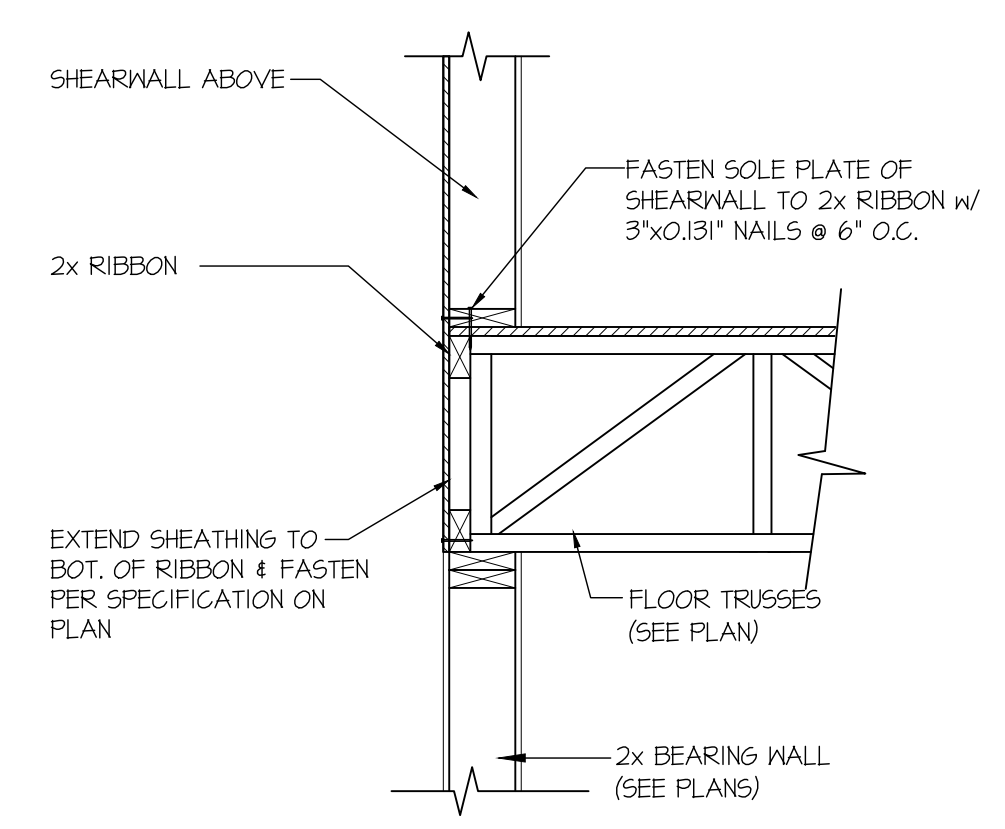
sheet:  
**LB-3**



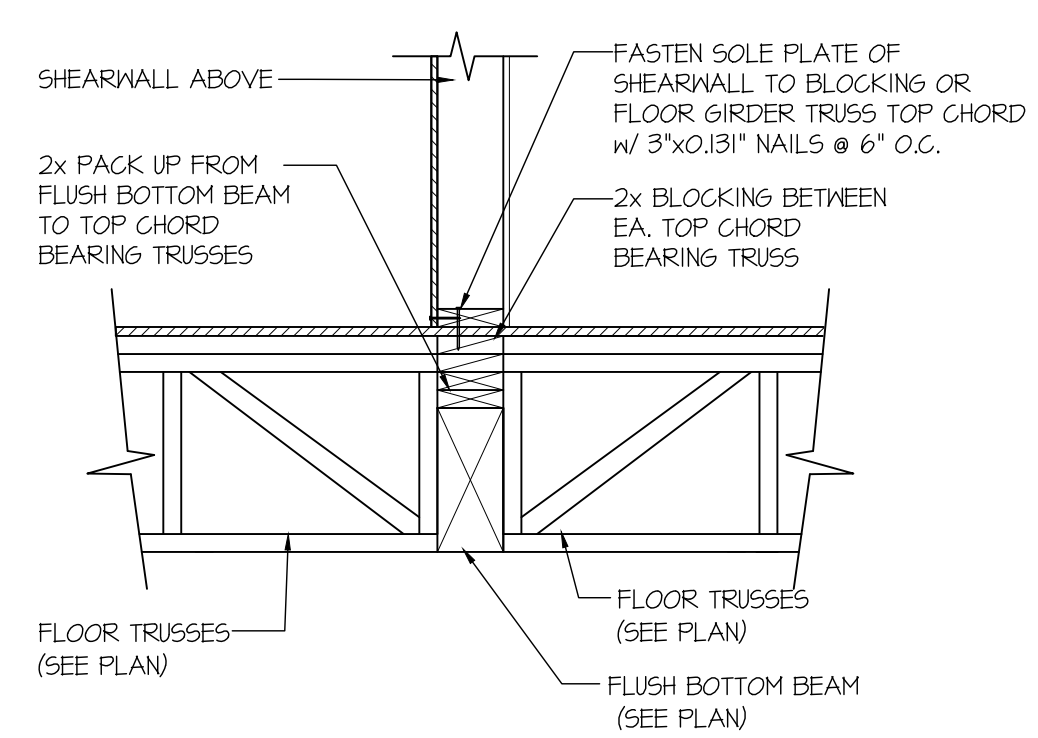
**81** SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE  
SCALE: 3/4"=1'-0"



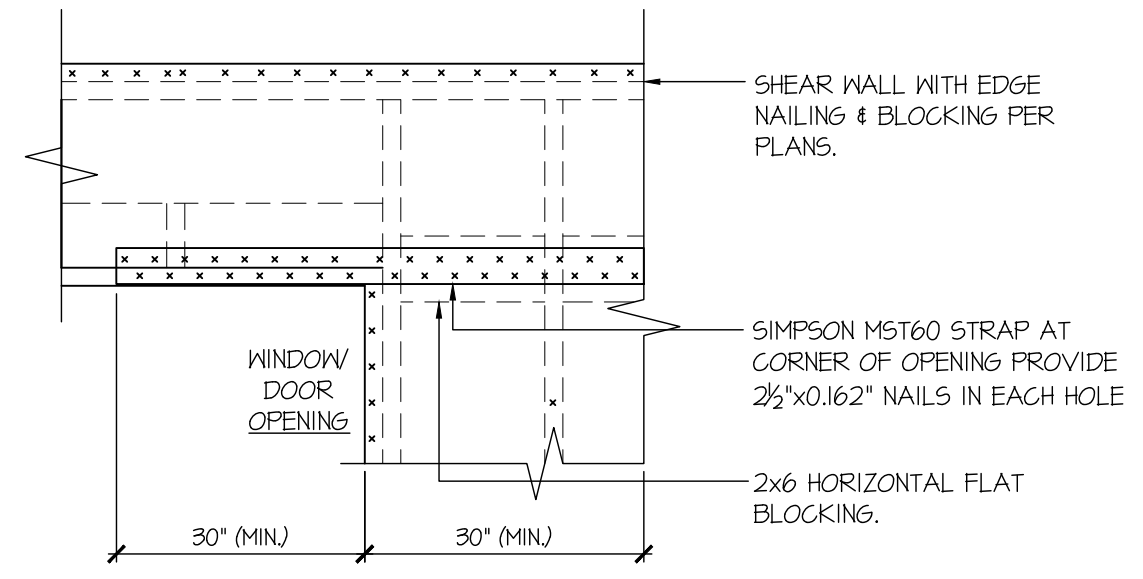
**83** SECTION  
SCALE: 3/4"=1'-0"



**84** SECTION  
SCALE: 3/4"=1'-0"

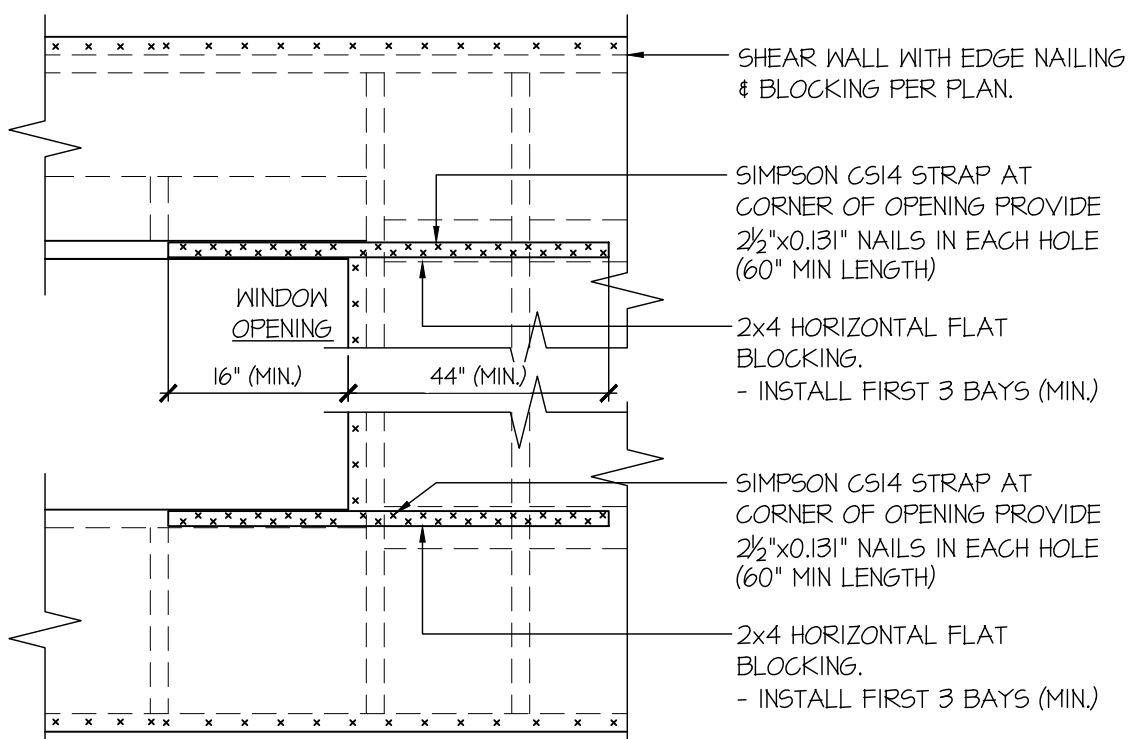


**85** SECTION  
SCALE: 3/4"=1'-0"



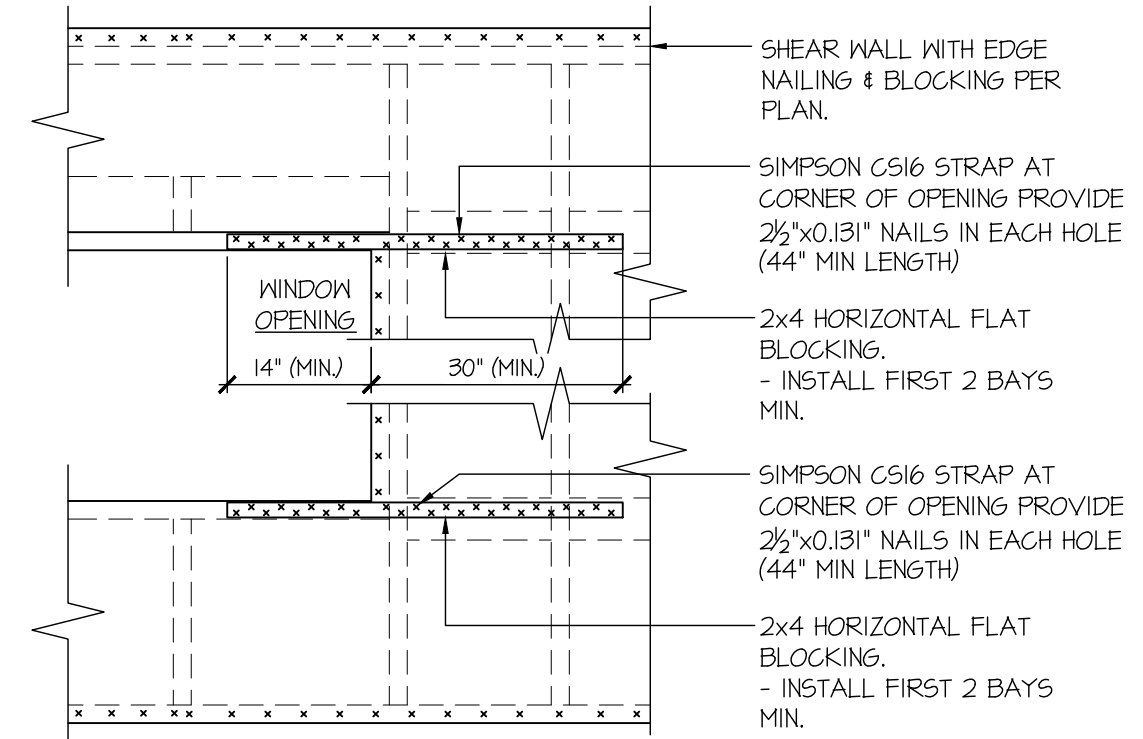
• ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL PLANS

**92** EXT. WALL & INT. SHEARWALL OPENING ELEVATION  
SCALE: NTS



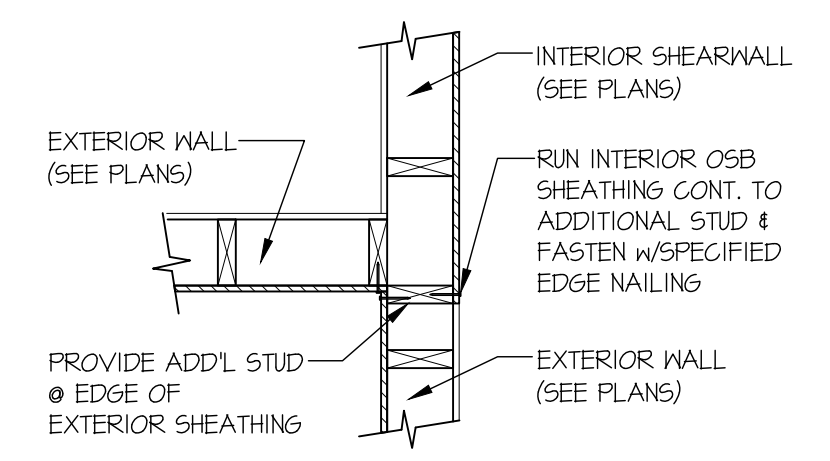
• ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL PLANS  
• IF MIN LENGTH IS NOT PROVIDED RUN STRAP TO END OF WALL

**93** EXT. WALL & INT. SHEARWALL OPENING ELEVATION  
SCALE: NTS

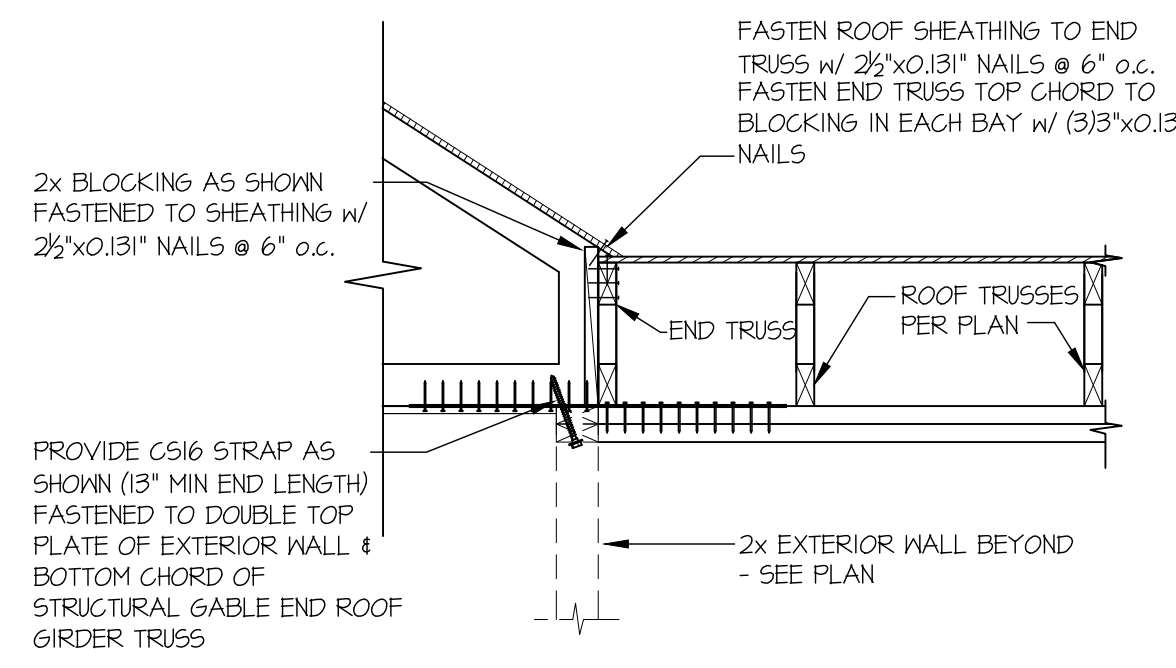


• ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL PLANS  
• IF MIN LENGTH IS NOT PROVIDED RUN STRAP TO END OF WALL

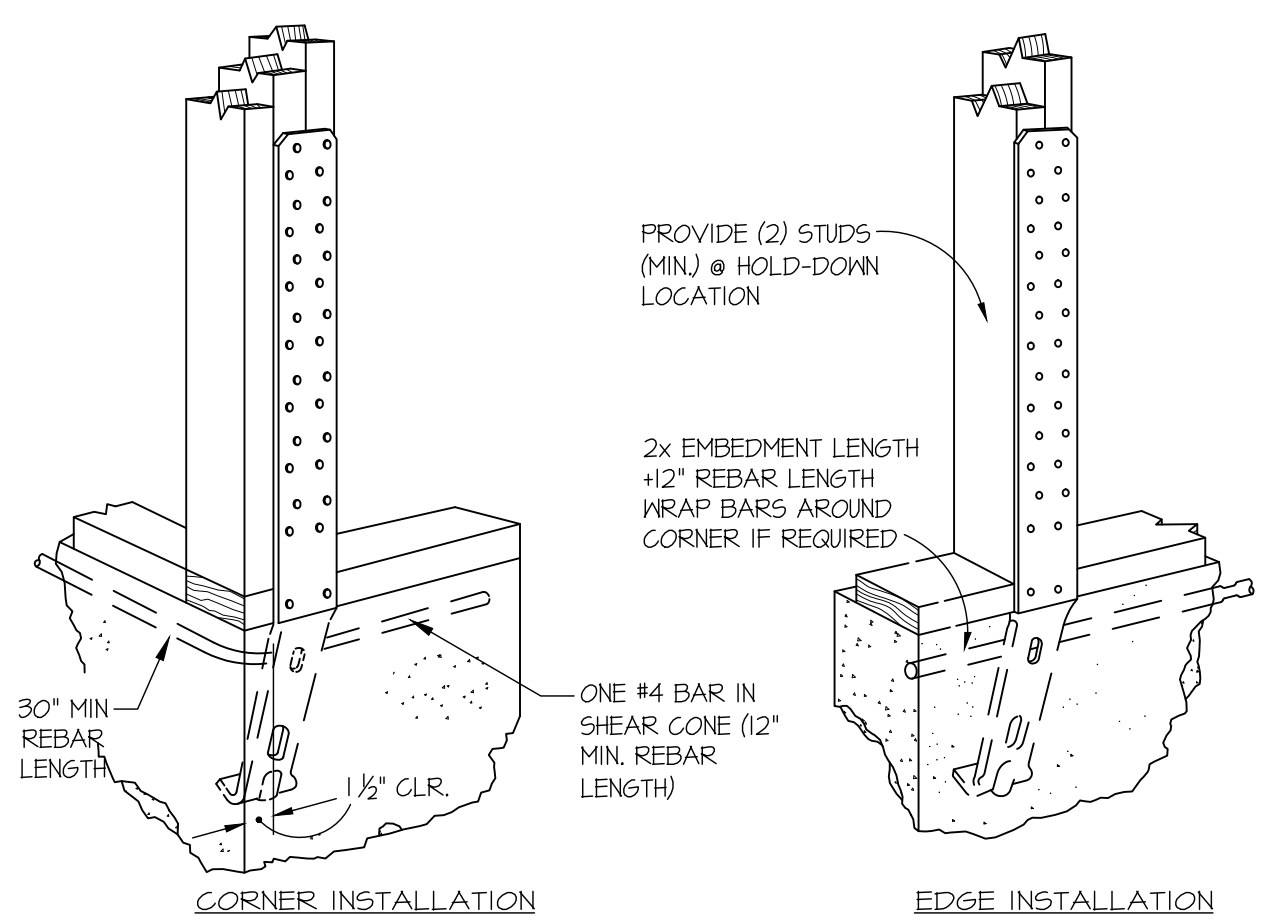
**94** EXT. WALL & INT. SHEARWALL OPENING ELEVATION  
SCALE: NTS



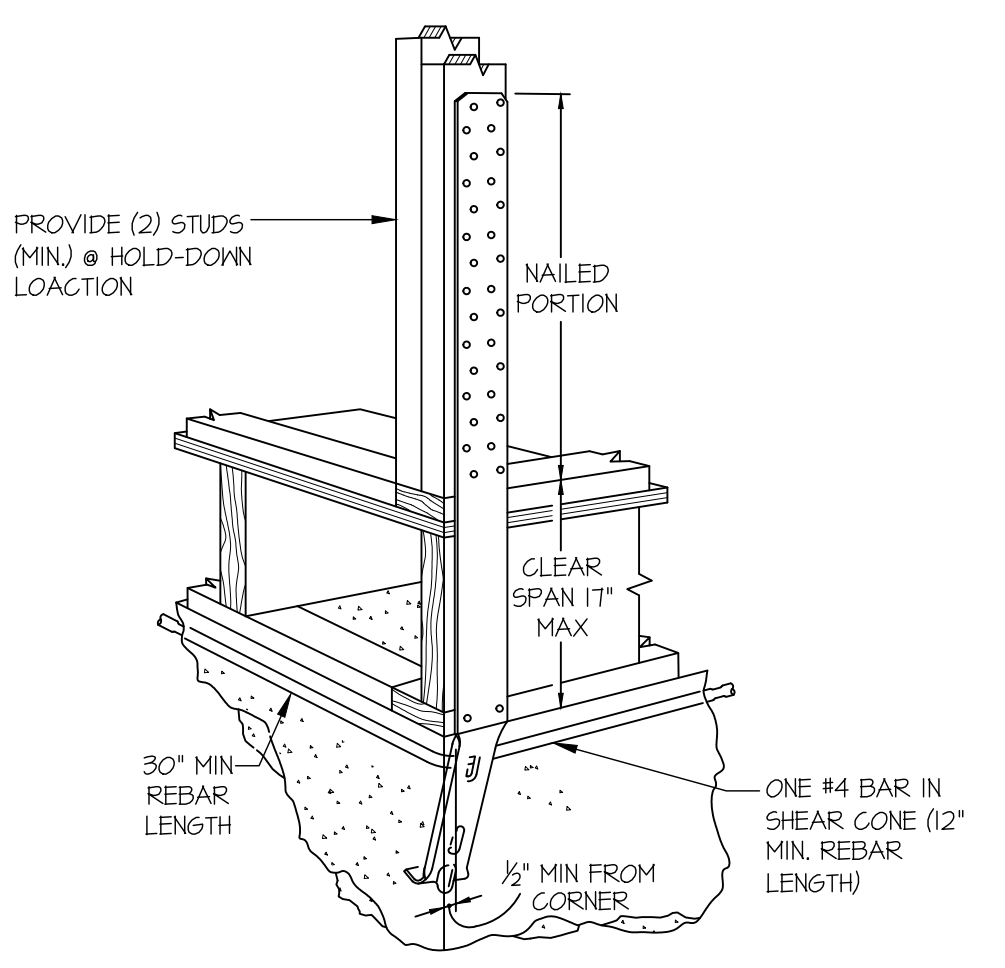
**99** SHEAR TRANSFER DETAIL @ INTERSECTING INT. SHEARWALL  
SCALE: 3/4"=1'-0" SHG. OPPOSITE FACES



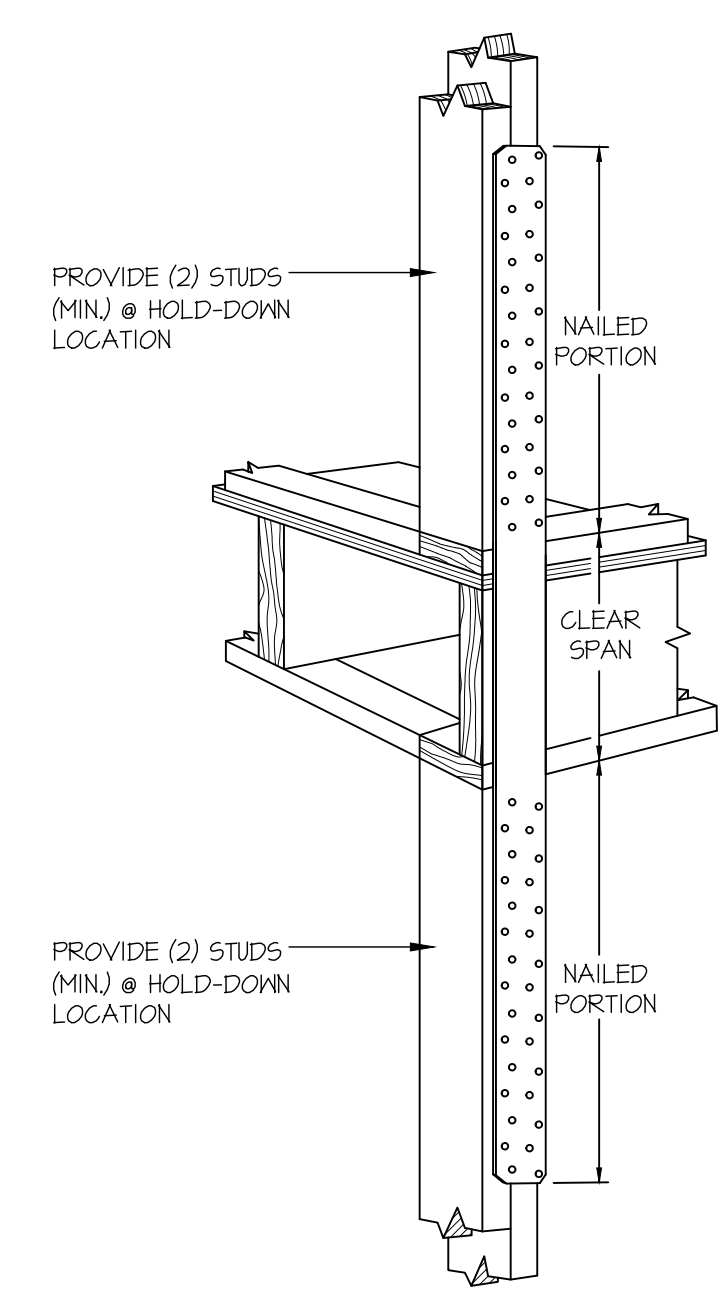
**117** STRAP DETAIL  
SCALE: 3/4"=1'-0"



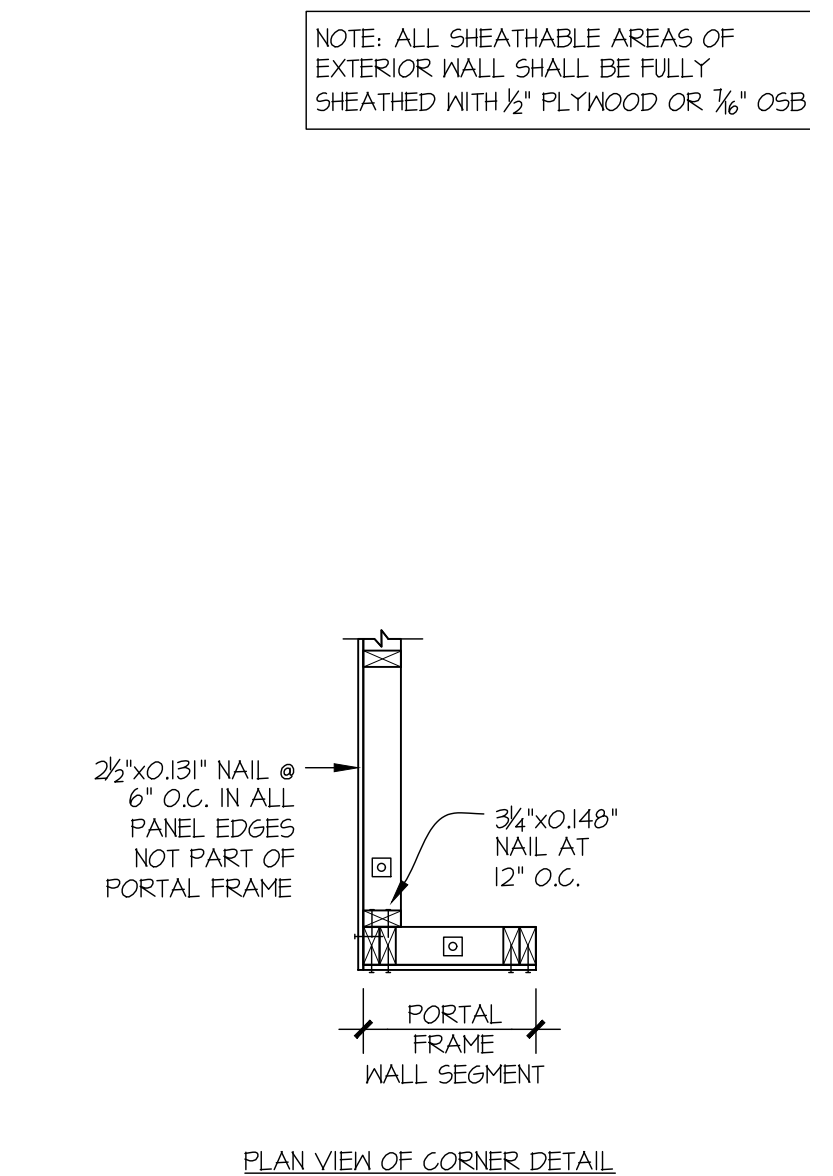
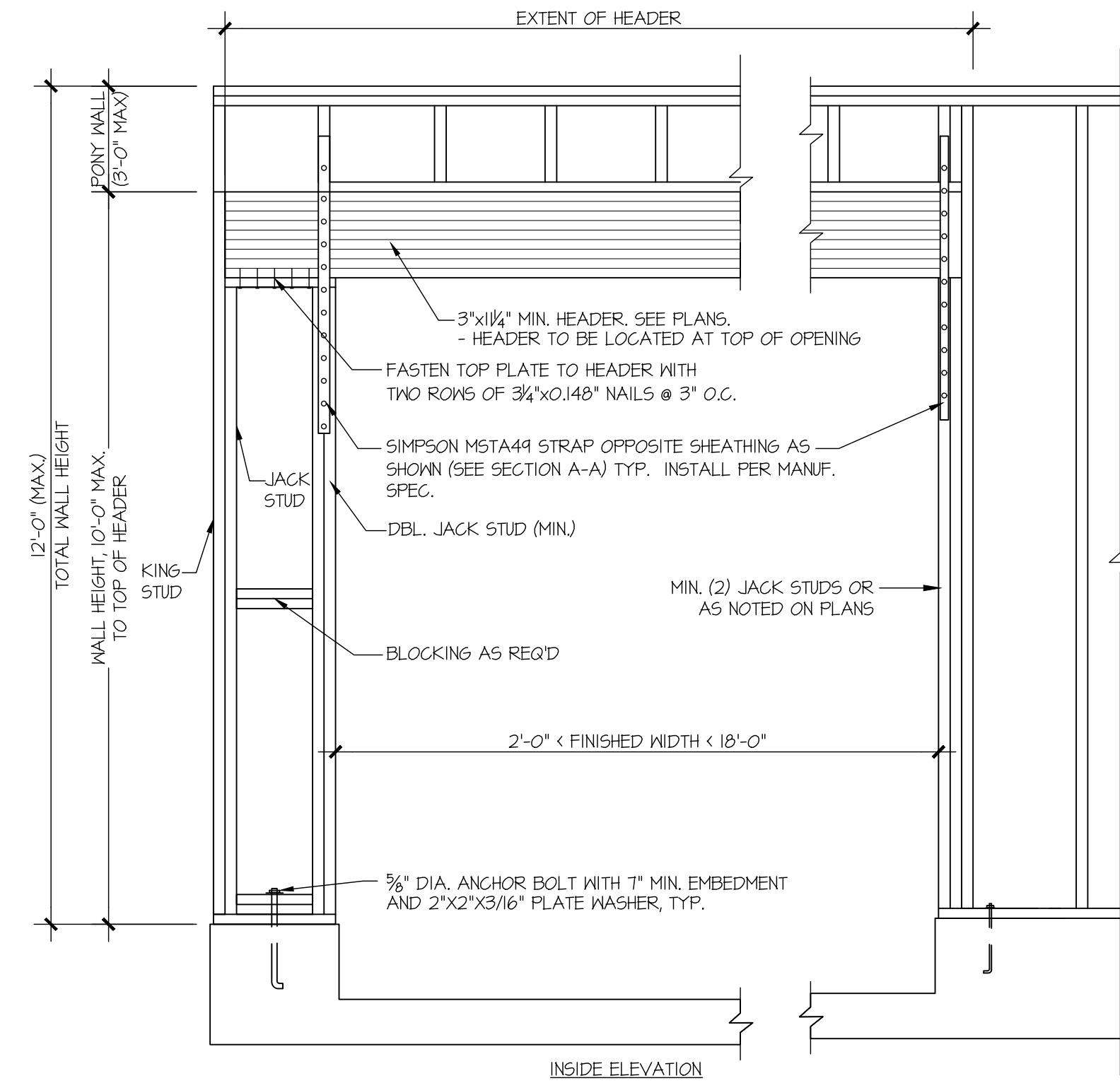
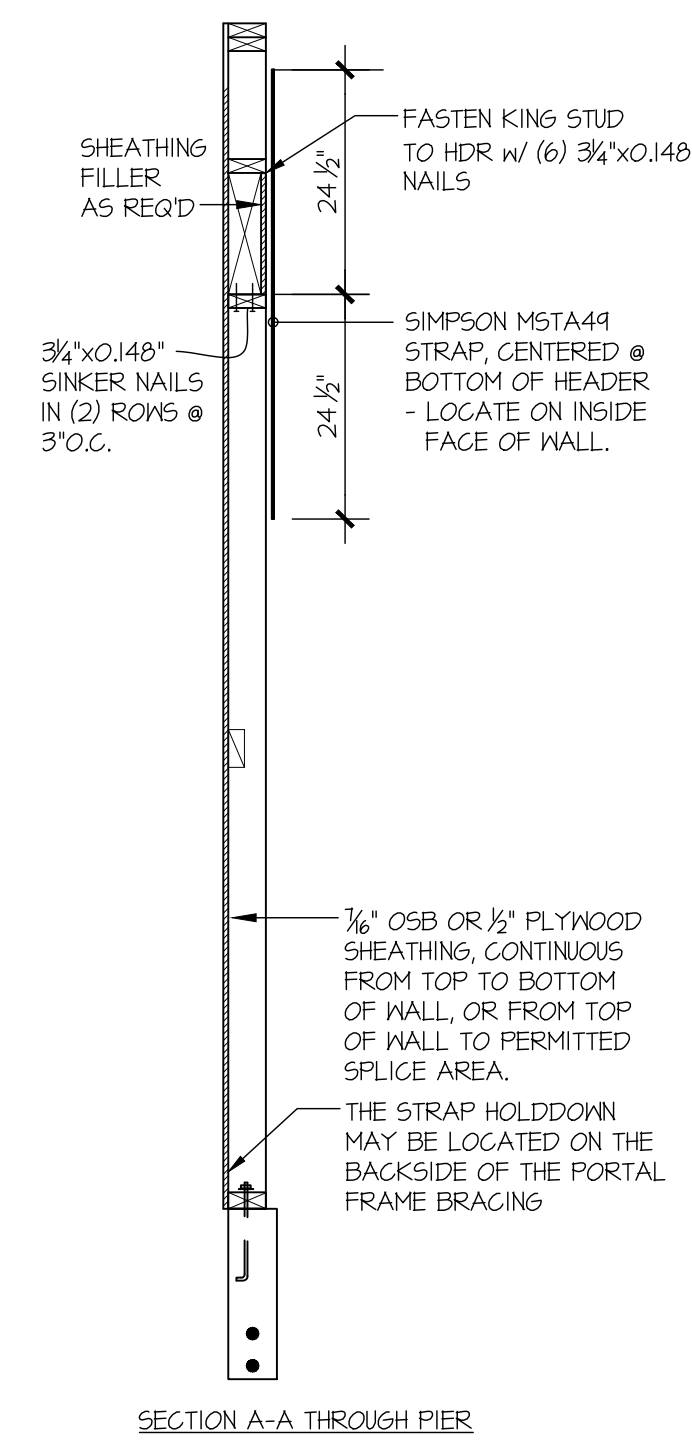
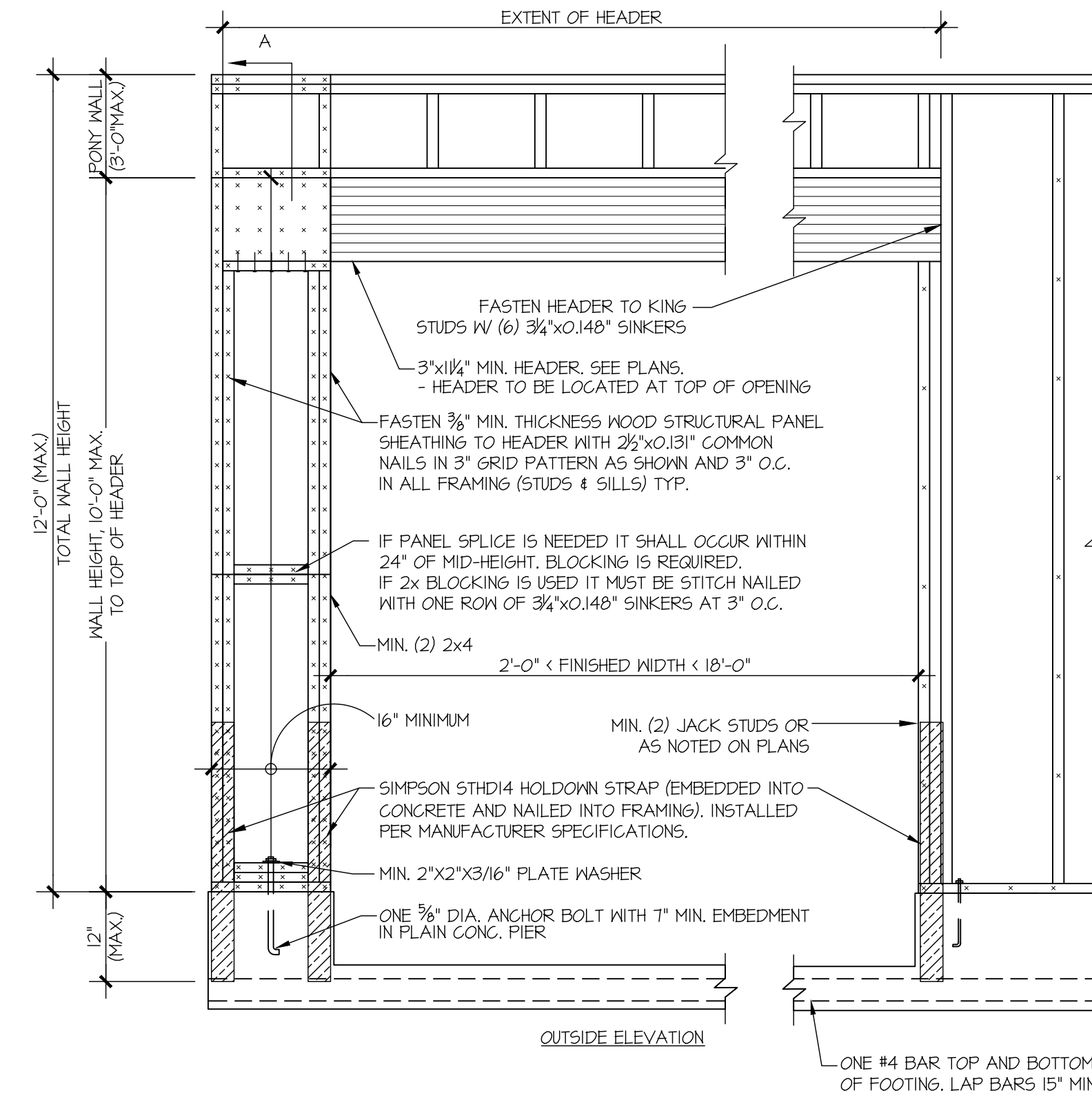
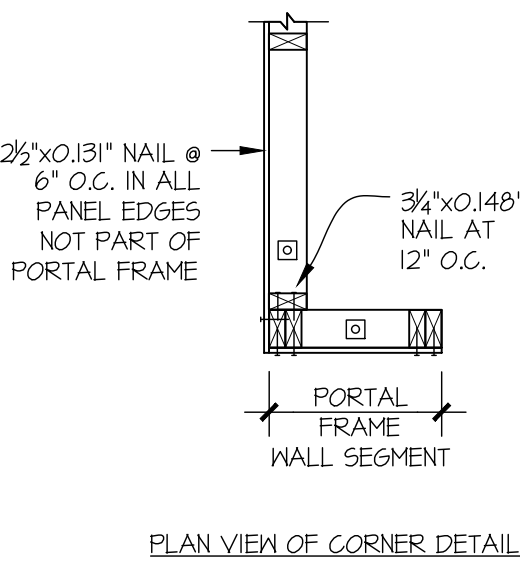
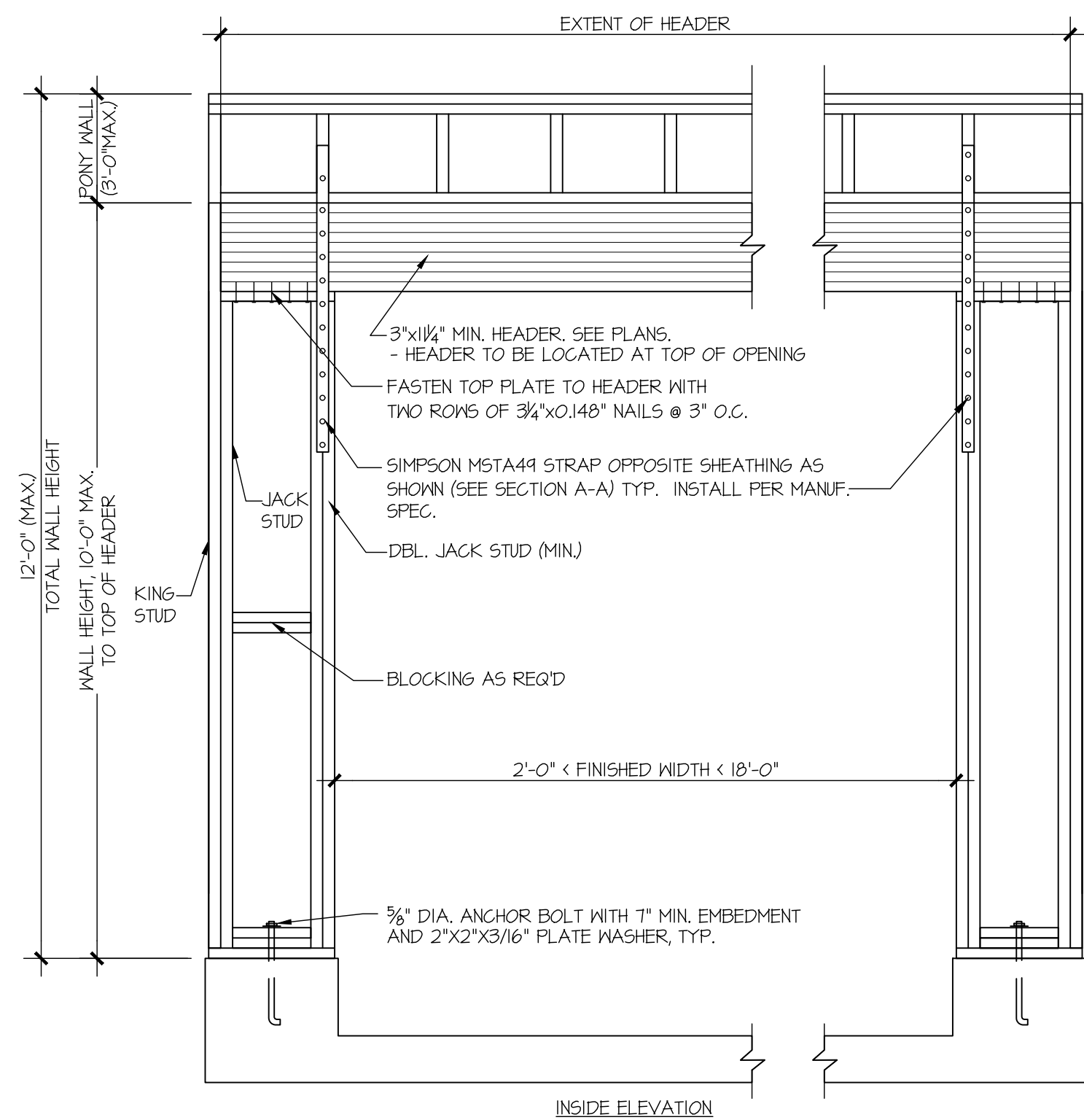
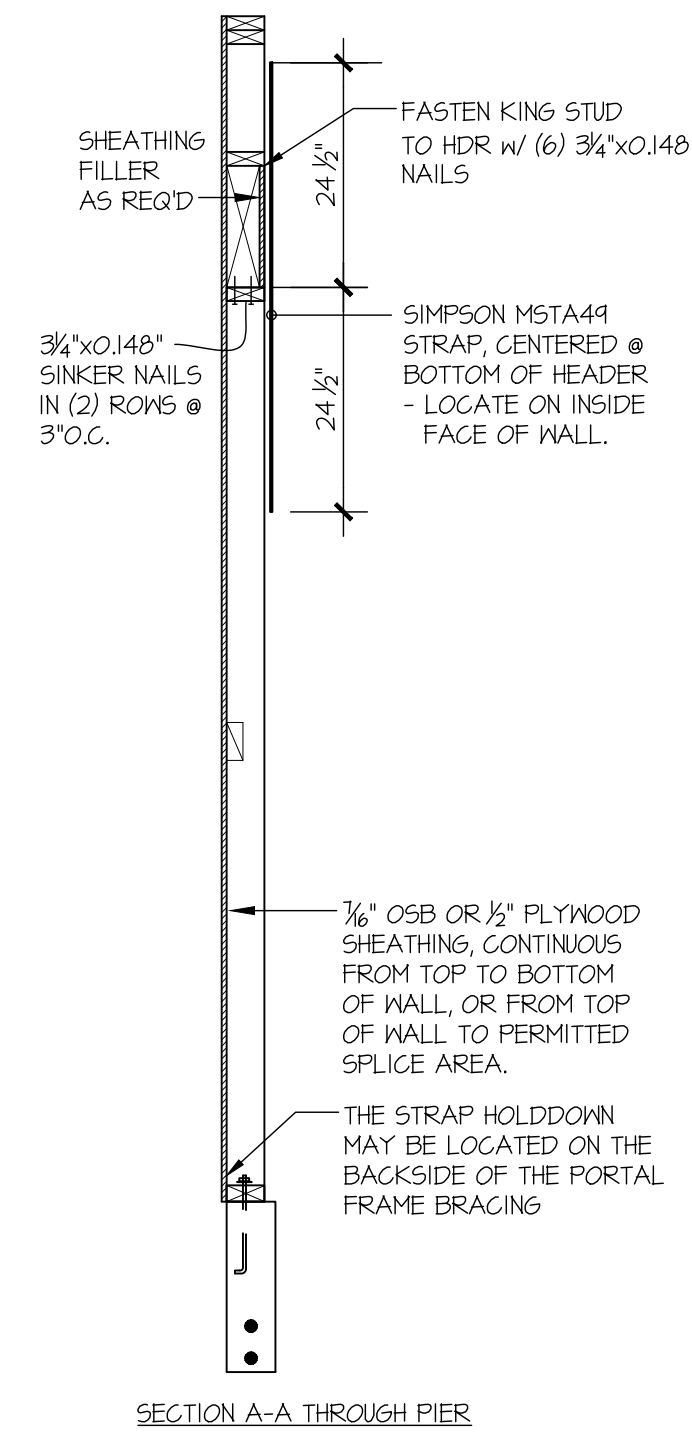
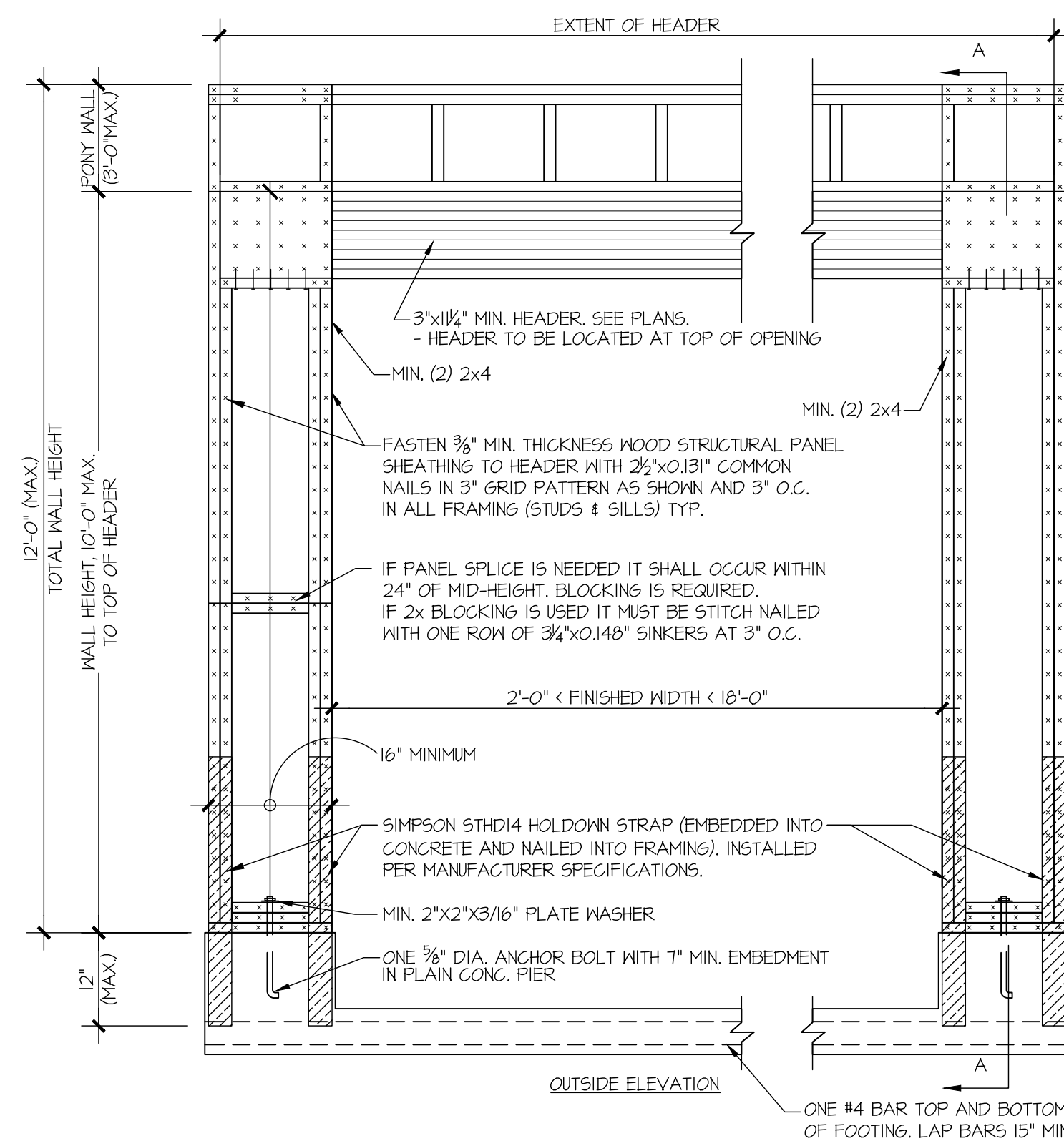
**A** TYPICAL HOLD-DOWN INSTALLATION  
NOT TO SCALE  
SIMPSON SHD HD @ FOUNDATION



**B** TYPICAL HOLD-DOWN INSTALLATION  
NOT TO SCALE  
SIMPSON SHD HD @ FLOOR FRAMING

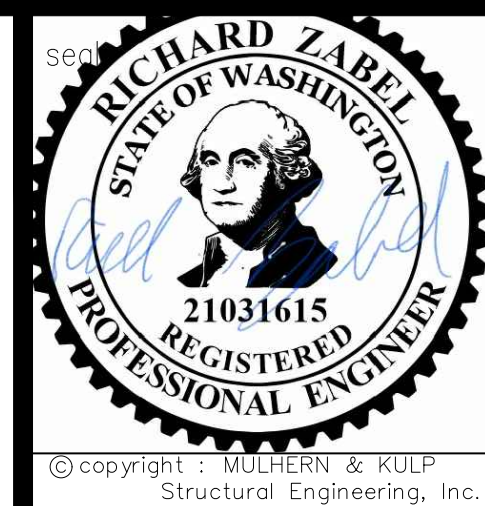


**C** TYPICAL HOLD-DOWN INSTALLATION  
NOT TO SCALE  
SIMPSON STRAP HD @ FLOOR FRAMING



1 APA PORTAL FRAME DETAIL WITH HOLDOWNS  
SCALE: N.T.S.

2 APA PORTAL FRAME DETAIL WITH HOLDOWNS  
SCALE: N.T.S.  
ONE SIDE OF GARAGE DOOR



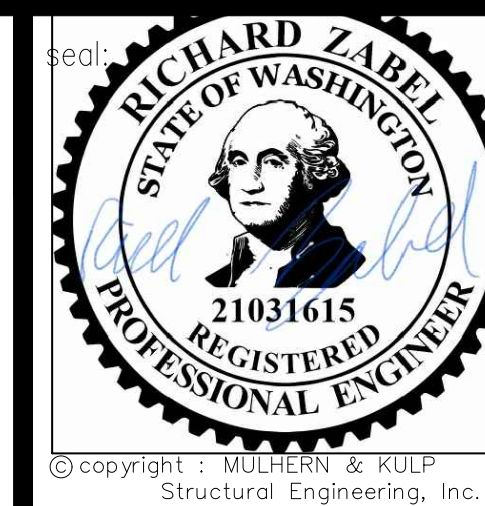
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M&K project number:  
154-22002

project	RJZ
drawn	JCL
issue	02-09-22
date:	
REVISIONS:	
date:	initial:



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M&K project number:  
154-22002

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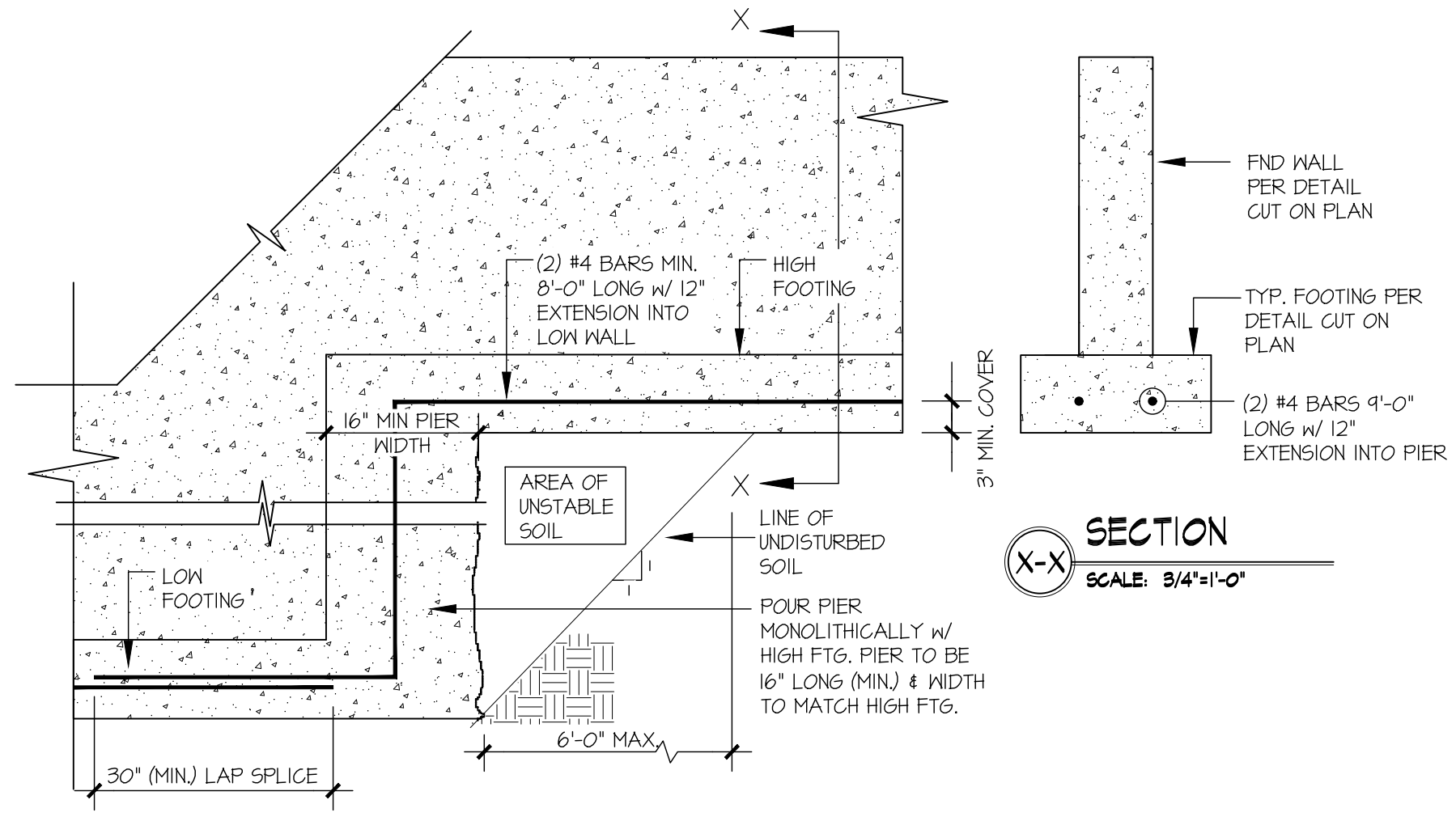
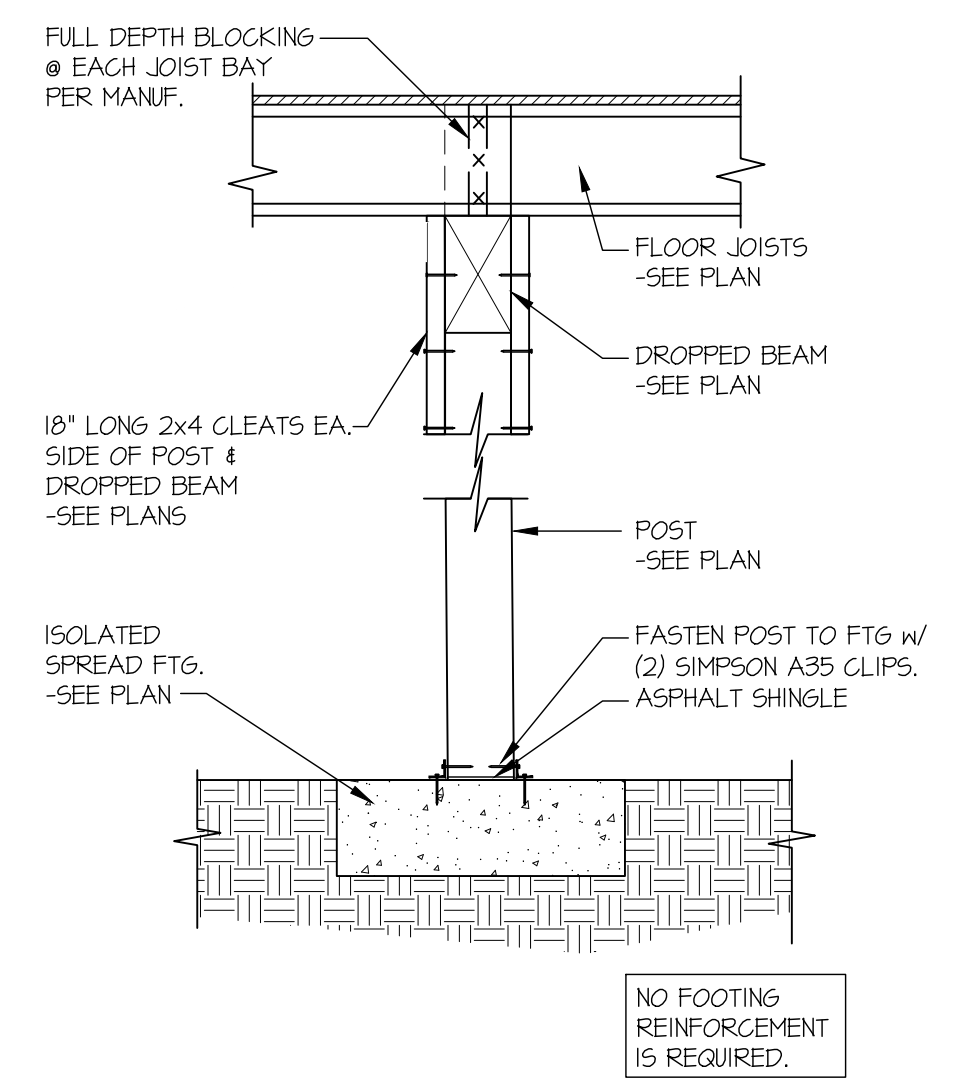
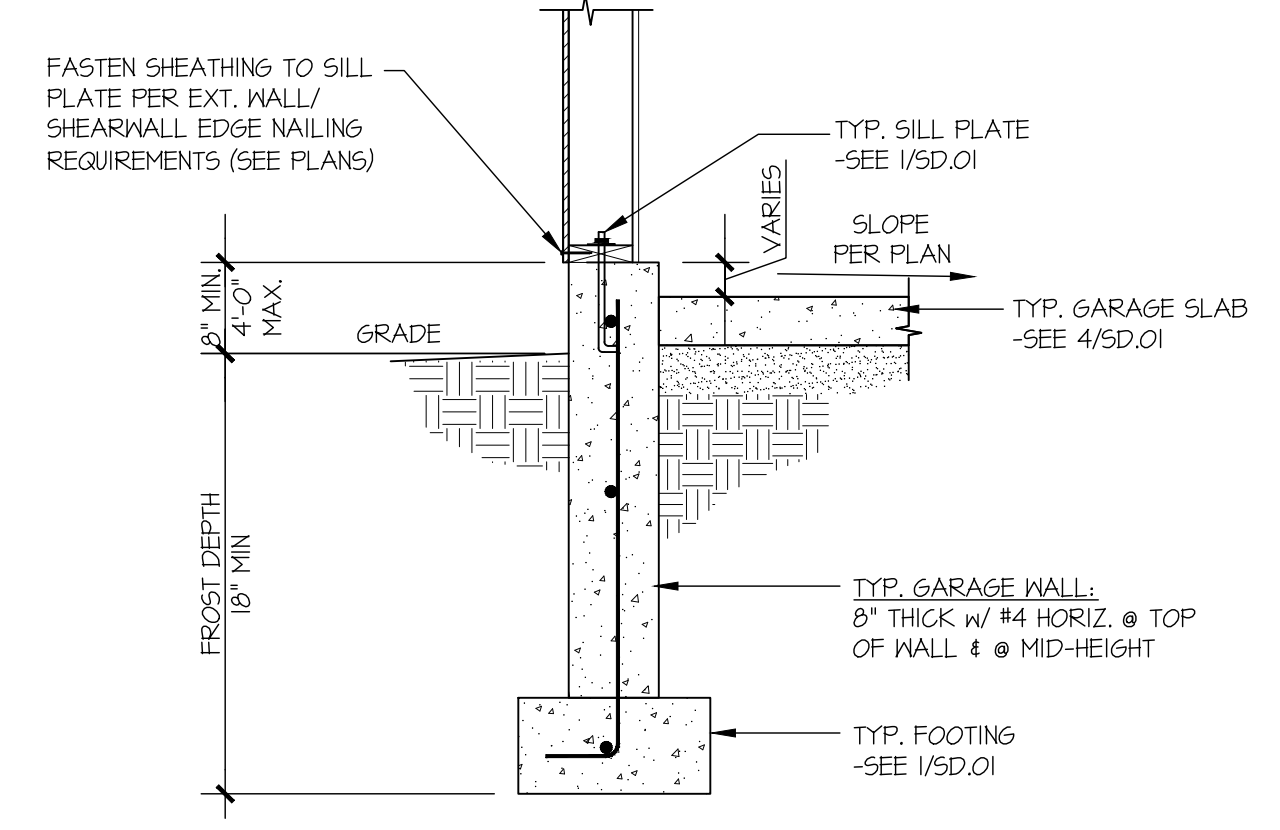
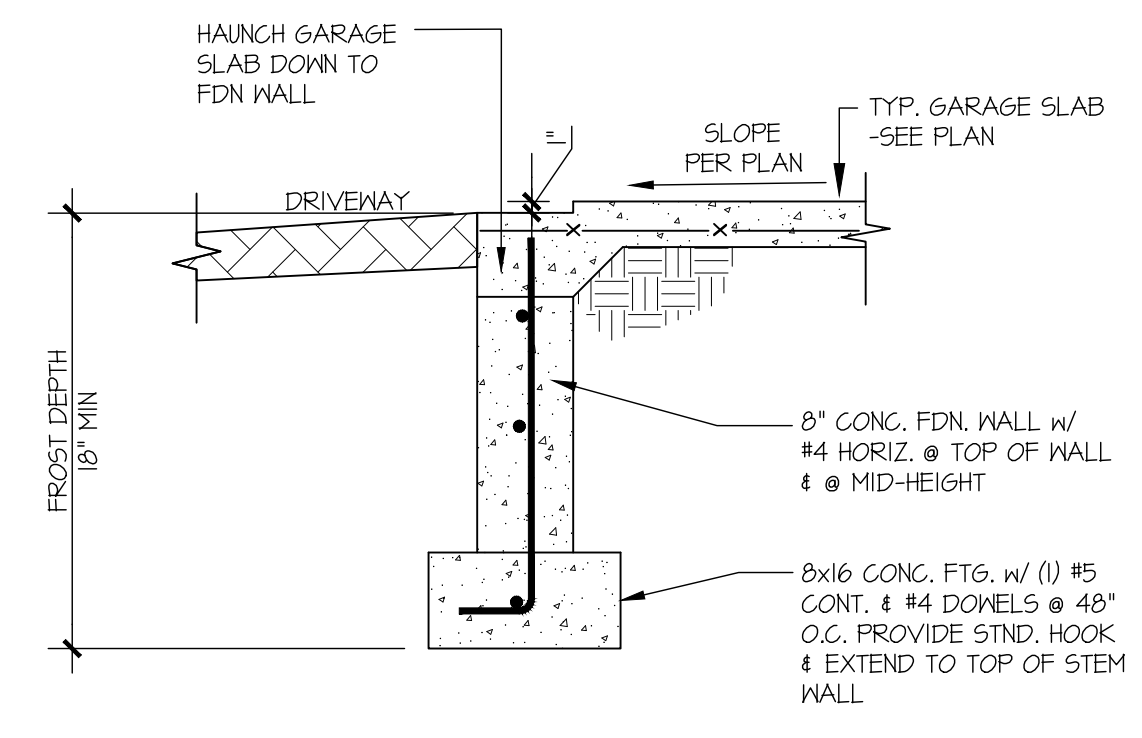
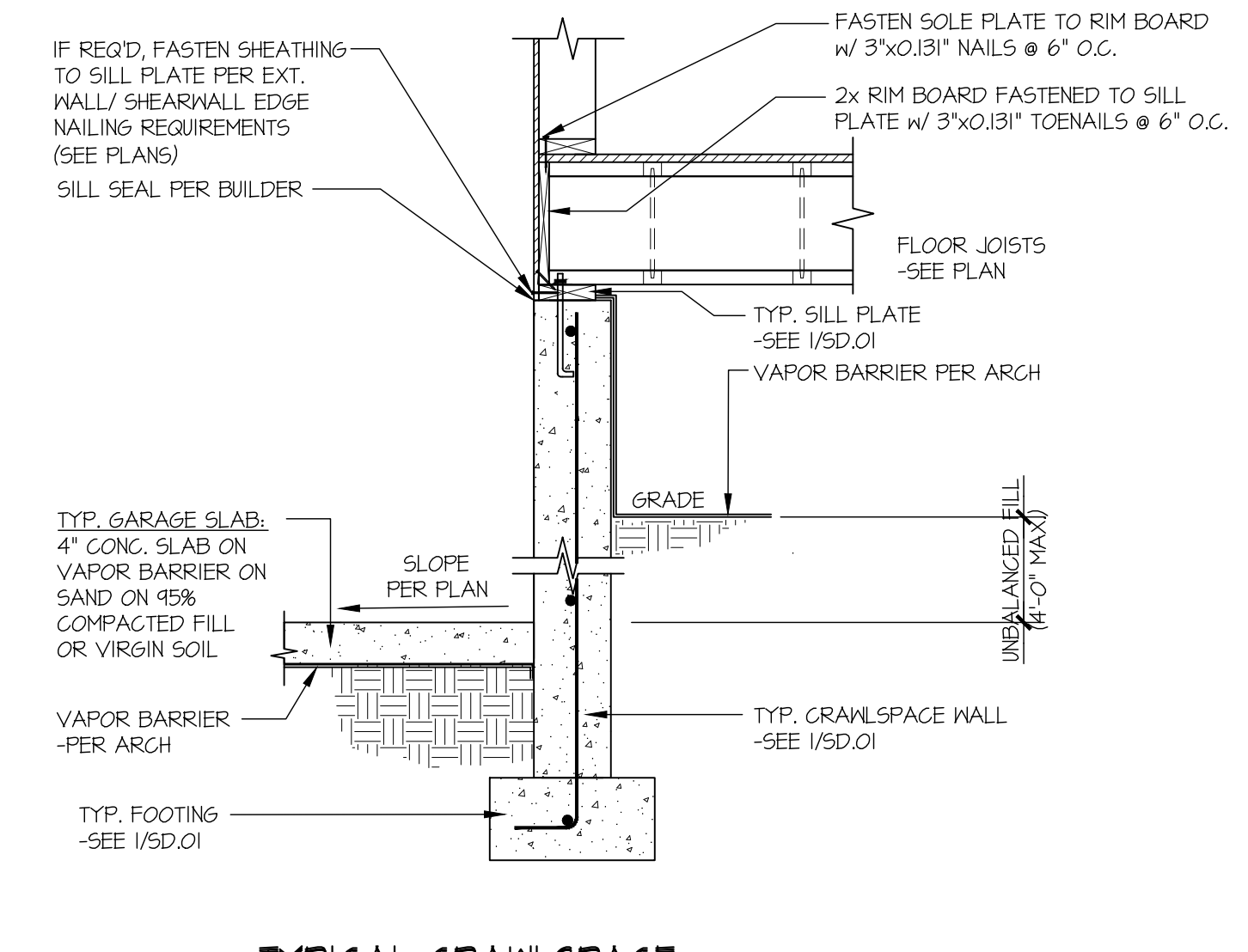
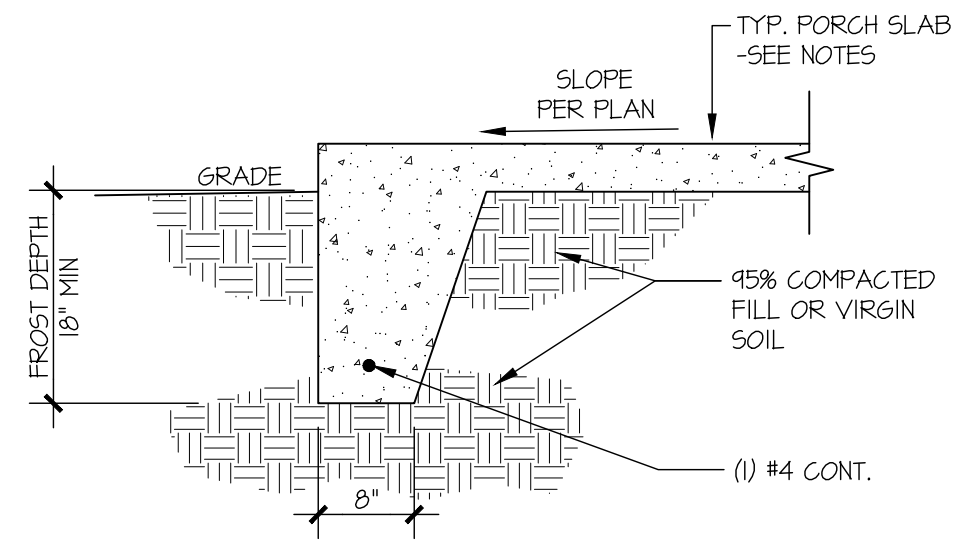
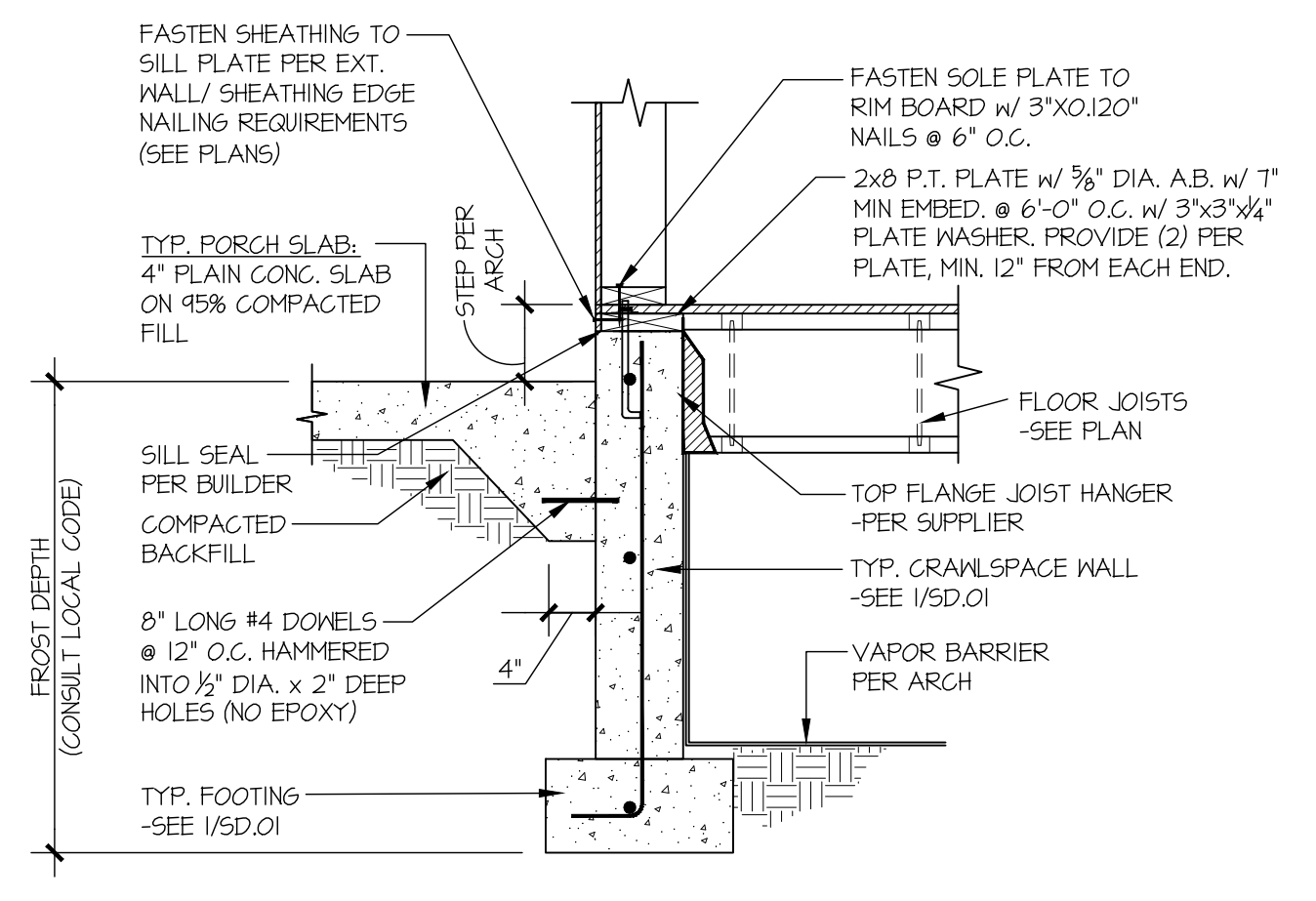
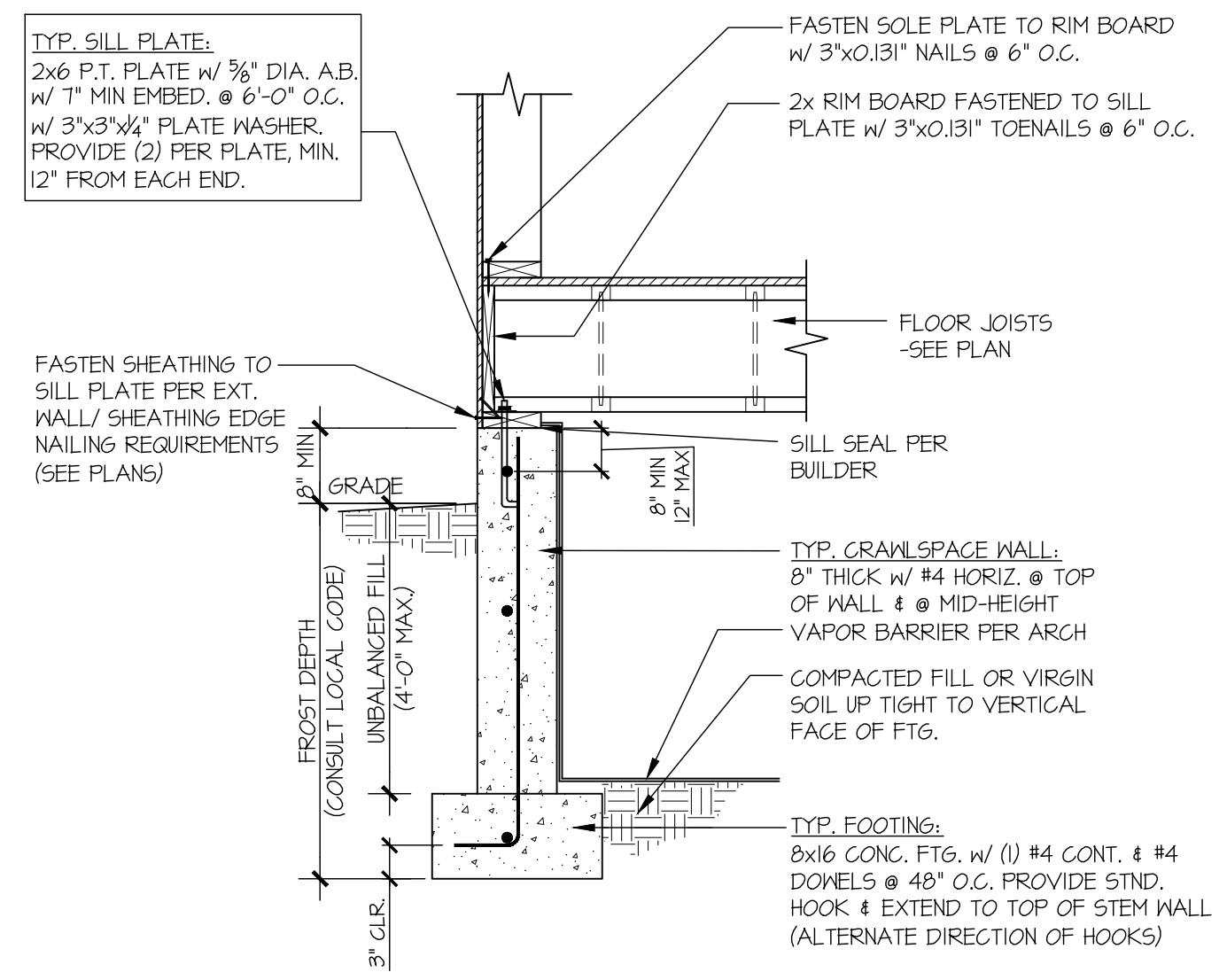
REVISIONS:  
date: initial:



STRUCTURAL DETAILS

**PIHA RESIDENCE**  
MERCER ISLAND, WASHINGTON

sheet:  
**SD.01**





SW 1/4 OF THE SE 1/4 OF SECTION 12, TOWNSHIP 24 NORTH., RANGE 4 EAST, W.M., KING COUNTY, WA.

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.  
CALL BEFORE YOU DIG: 811

- ASPHALT SURFACE
- BUILDING
- ROW
- CLEANOUT
- CONCRETE SURFACE
- RETAINING WALL
- FENCE LINE (WOOD)
- GAS METER
- GAS LINE
- INLET (TYPE 1)
- NAIL AS NOTED
- MAILBOX (RESIDENTIAL)
- MONUMENT IN CASE (FOUND)
- STORM EASEMENT AREA
- UTILITY EASEMENT AREA
- PAVER SURFACE
- POWER METER
- POWER (OVERHEAD)
- POWER POLE
- REBAR & CAP (SET)
- ROCKERY
- SEWER LINE
- SANITARY SIDE SEWER
- SEWER MANHOLE
- STORM DRAIN LINE
- TREE (AS NOTED)
- WATER LINE
- WATER METER



**TREE TABLE**

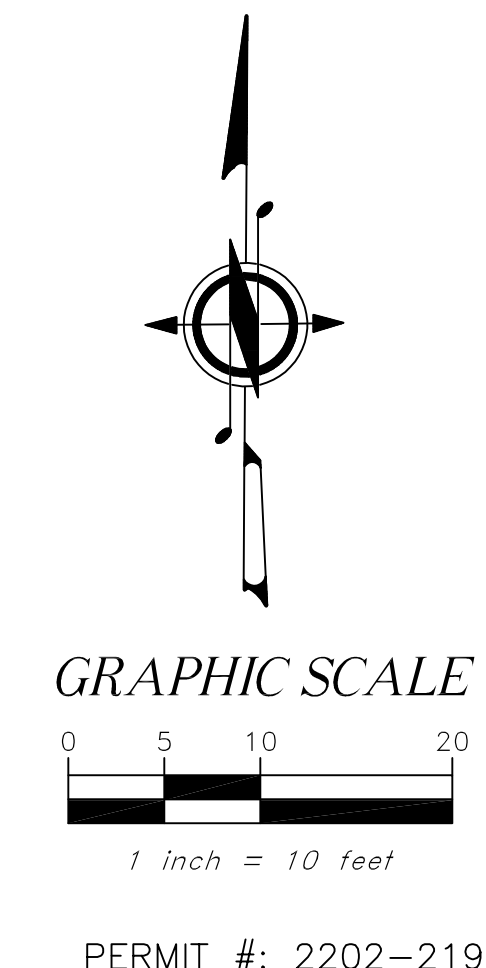
ONSITE						
ID	NAME	DSH	DRIFLINE	Exception Above 24"	Save	Remove
256	Japanese Maple	16.5	10.7	size		16.5
257	Common Buckthorn	27	17.6	yes		27
258	Austrian Black Pine	26.1	18	size	yes	26.1
259	Austrian Black Pine	17.1	17	no		17.1
260	Doug-Fir	30.5	20	size	yes	30.5
261	Common Buckthorn	10.9	11	no		10.9
262	Austrian Black Pine	22.2	22.2	no		22.2
263	Common Buckthorn	11	12.4	no		11
Sub Totals		161.3			117.8	
					Retain	73%

**OFFSITE**

ID	NAME	DSH	DRIFLINE
A	Japanese Maple	10	12.4
B	Western catalpa	31.9	20.3

**TABLE OF CONTENT**

SHEET #	DESCRIPTION
1	EROSION & SEDIMENTATION CONTROL PLAN
2	EROSION CONTROL DETAILS
3	AMENDED SOILS PLAN
4	UTILITY & TREE PLAN
5	OFF SITE STORM EXTENSION PLAN
6	UTILITY DETAILS



REV. NO.	DATE	DESCRIPTION
1	06/14/22	REVISED PER CITY COMMENTS 2202-219-SUB1

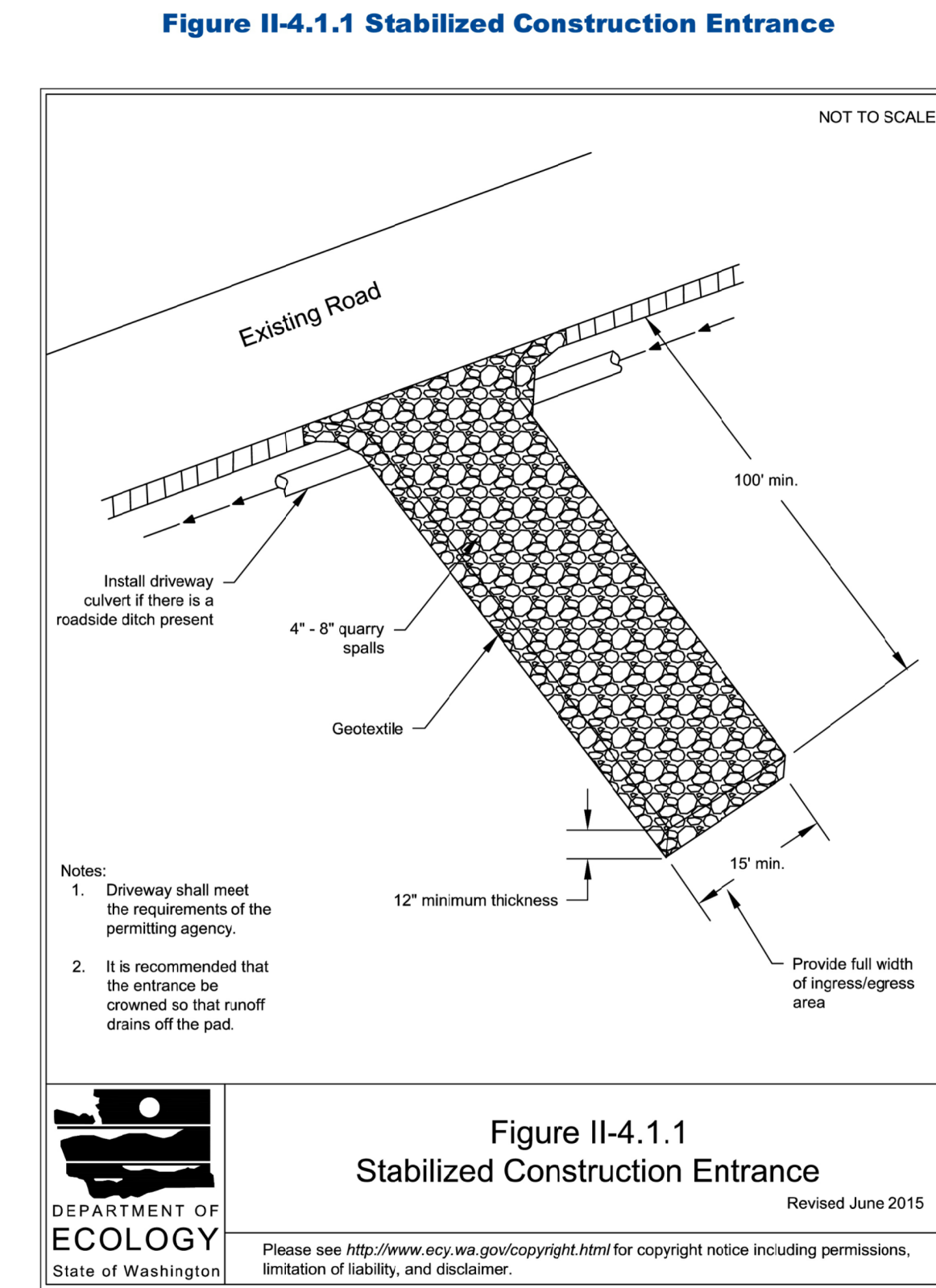
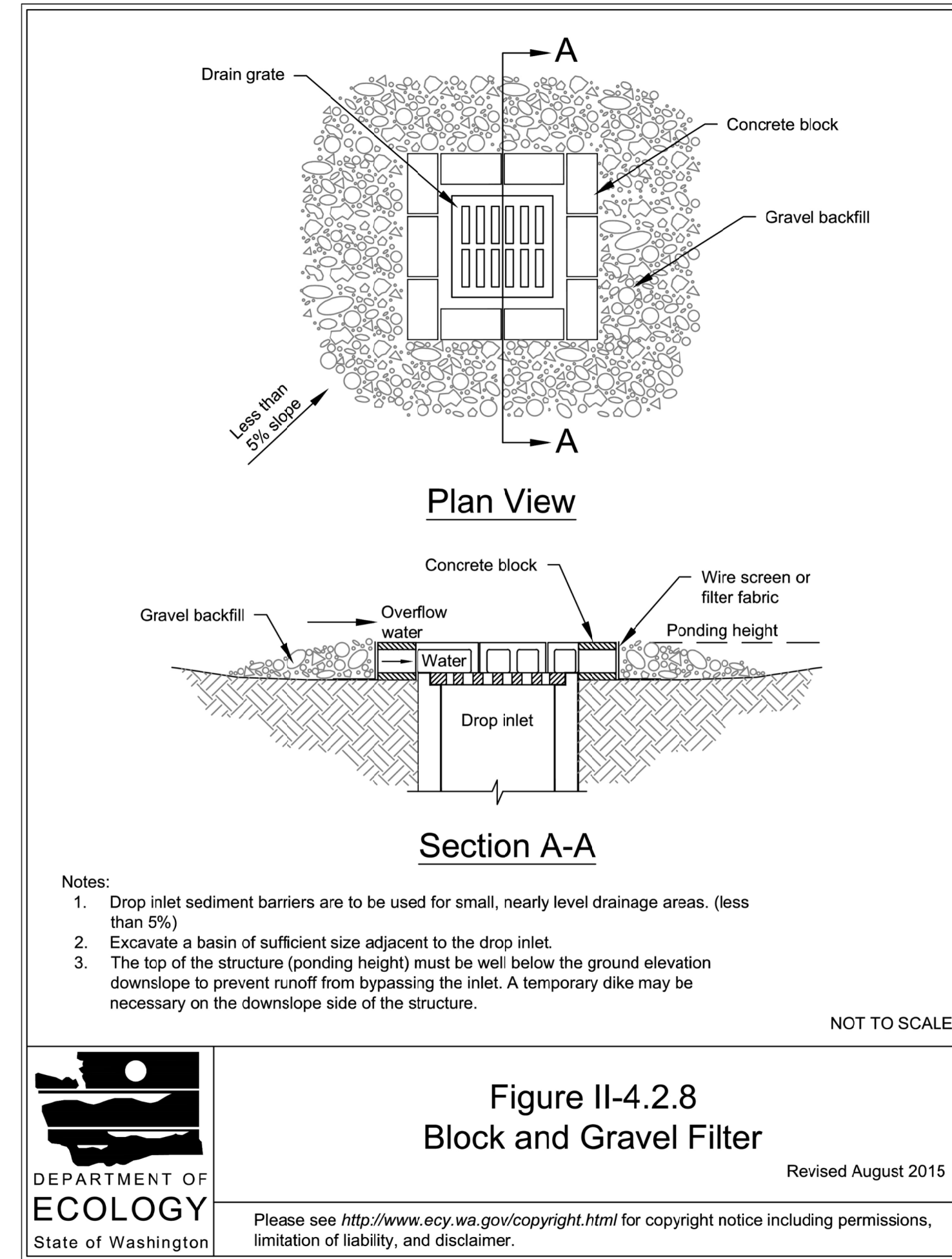
**OFFE ENGINEERS**  
 13902 SOUTHEAST 159TH PLACE  
 RENTON, WASHINGTON 98058  
 PHONE: 425-260-3412  
 CONTACT: DARRELL OFFE, P.E.

DESIGNED BY: DLO  
 DRAWN BY: VS  
 CHECKED BY: DLO

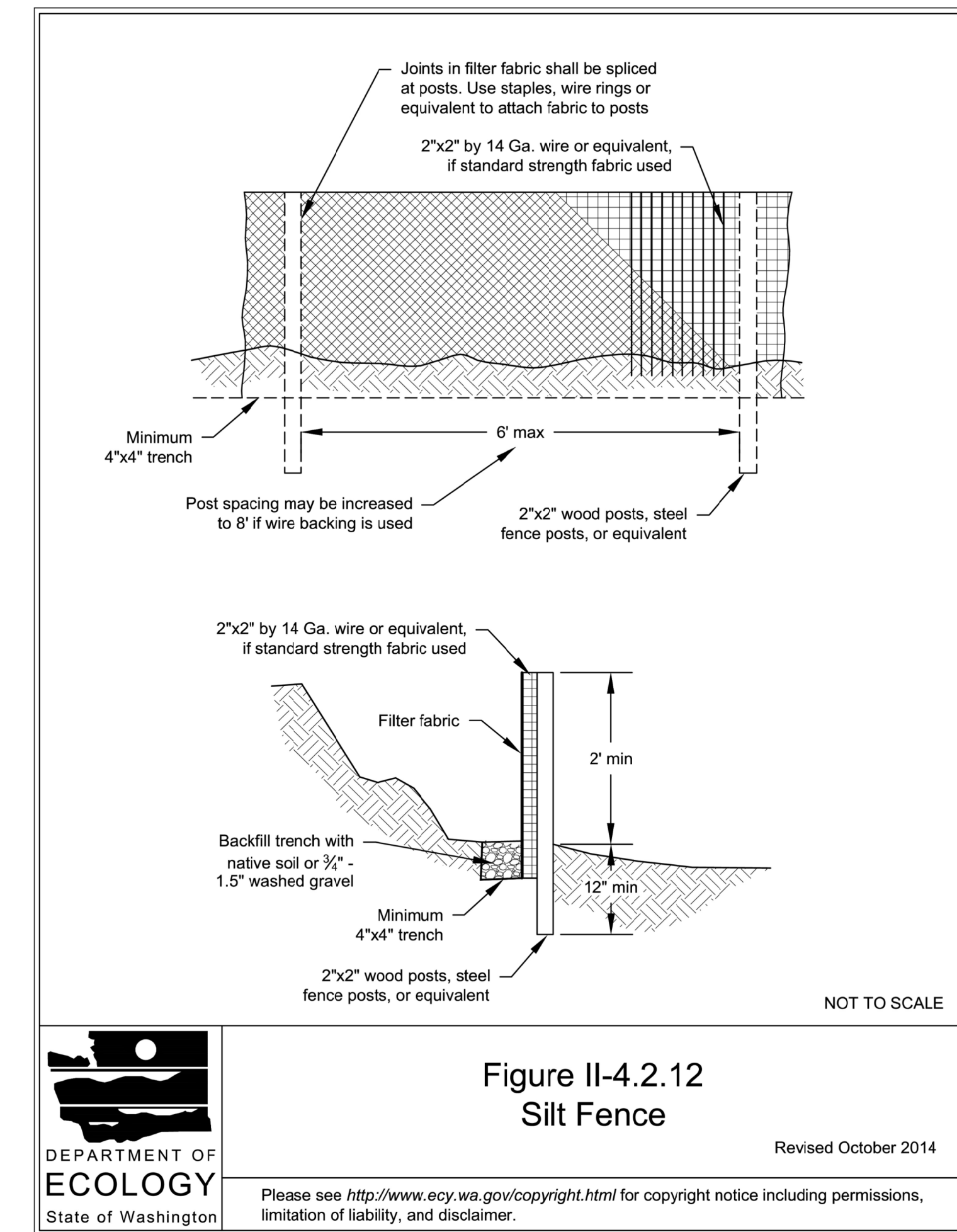
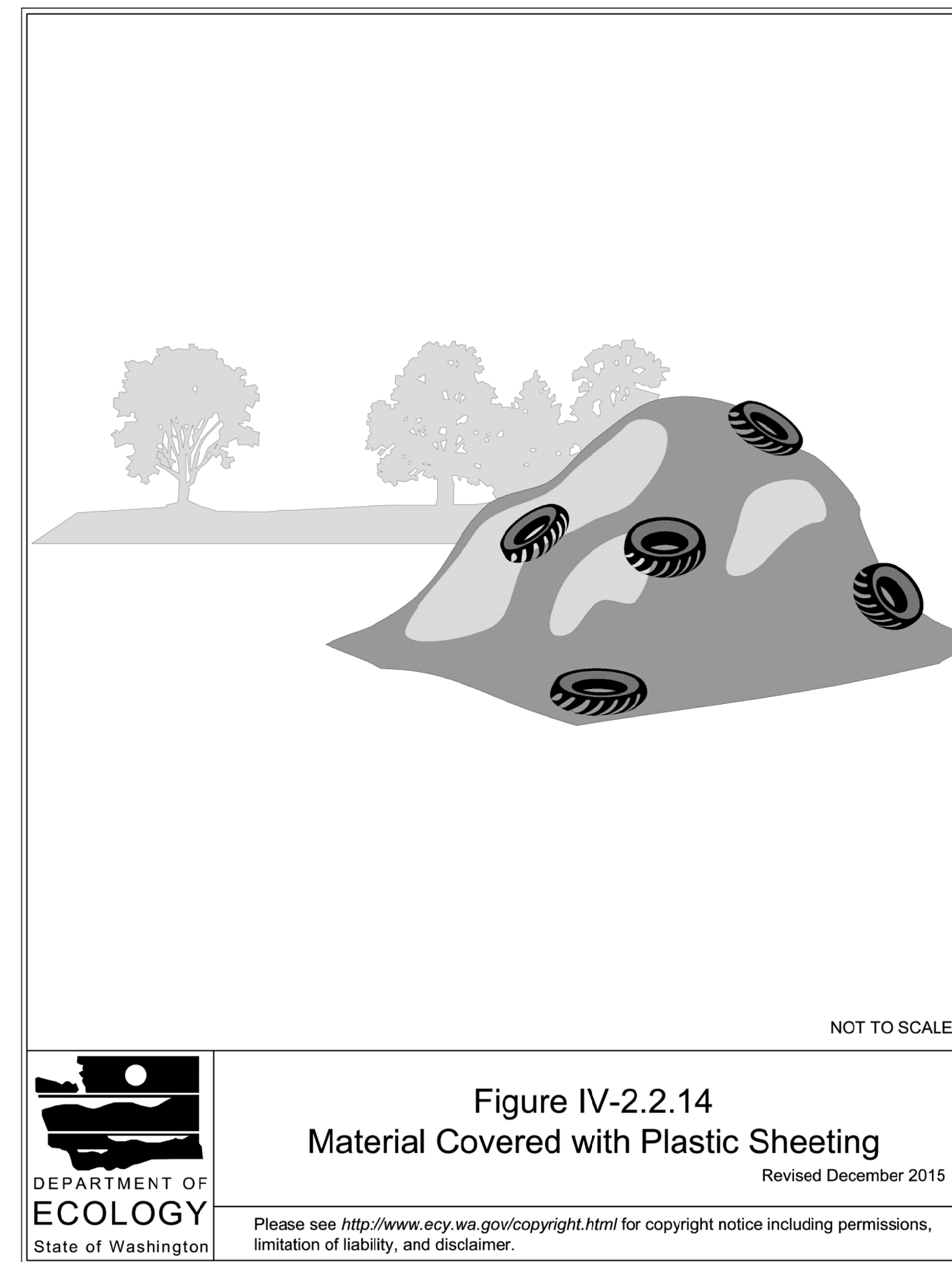
**3745 77th Avenue SE**  
**JayMarc Custom - Piha Residence**  
**EROSION & SEDIMENTATION CONTROL PLAN**

PROJECT: 3745 77th Avenue SE  
 CLIENT: JayMarc Custom - Piha Residence  
 SHEET CONTENT: EROSION & SEDIMENTATION CONTROL PLAN

DATE: 06/14/2022  
 JOB NO.:  
 DWG NO.:  
 SHEET: 1 OF 6  
 PERMIT #: 2202-219



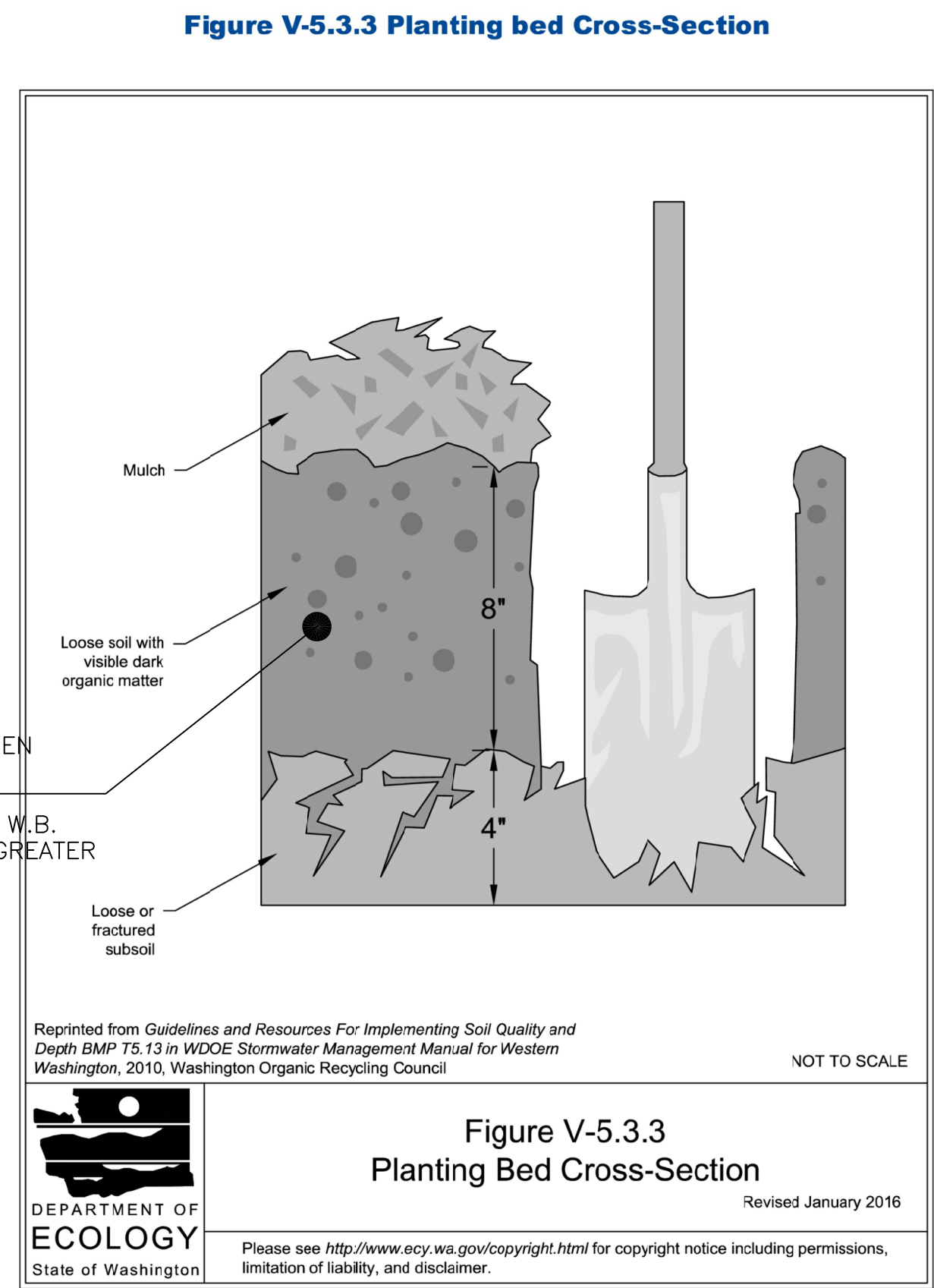
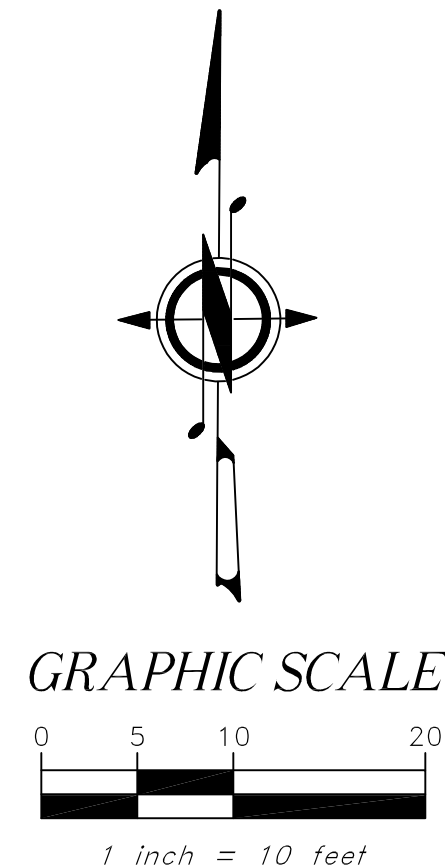
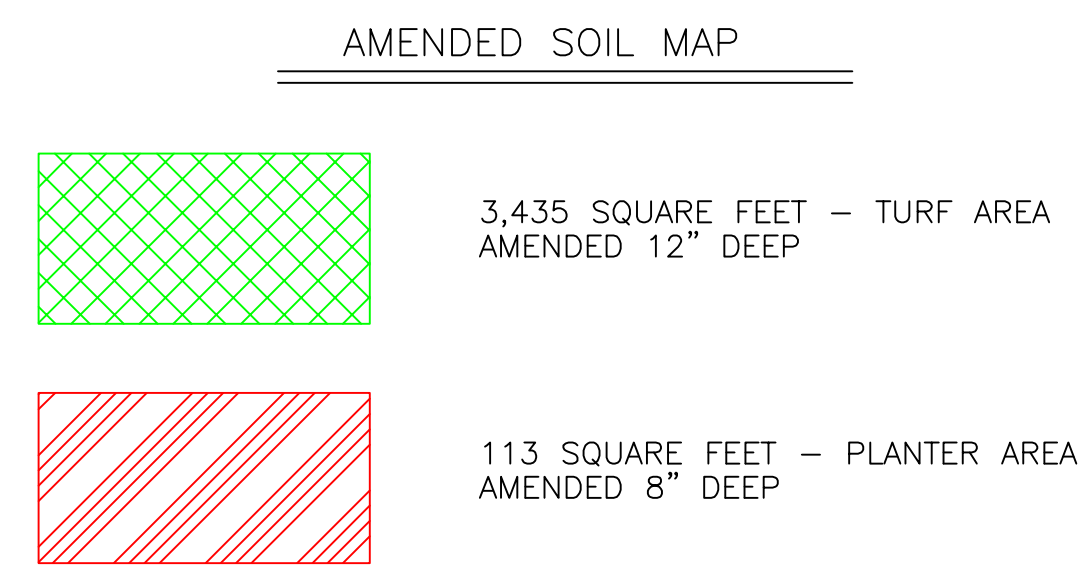
2014 Stormwater Management Manual for Western Washington  
Volume II - Chapter 4 - Page 273



PROJECT	3745 77th Avenue SE	DESIGNED BY	DLO	DATE	06/14/2022	REVISED PER CITY COMMENTS	2202-219-SUB1
CLIENT	JayMarc Custom - Piha Residence	DRAWN BY	VS	REV. NO.	1	DESCRIPTION	
SHEET CONTENT	EROSION CONTROL DETAILS	CHECKED BY	DLO	DATE	06/14/2022		
DATE	06/14/2022						
JOB NO.							
DWG NO.							
SHEET	2						
OF	6						



NOTE: THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.



2014 Stormwater Management Manual for Western Washington  
Volume V - Chapter 5 - Page 914

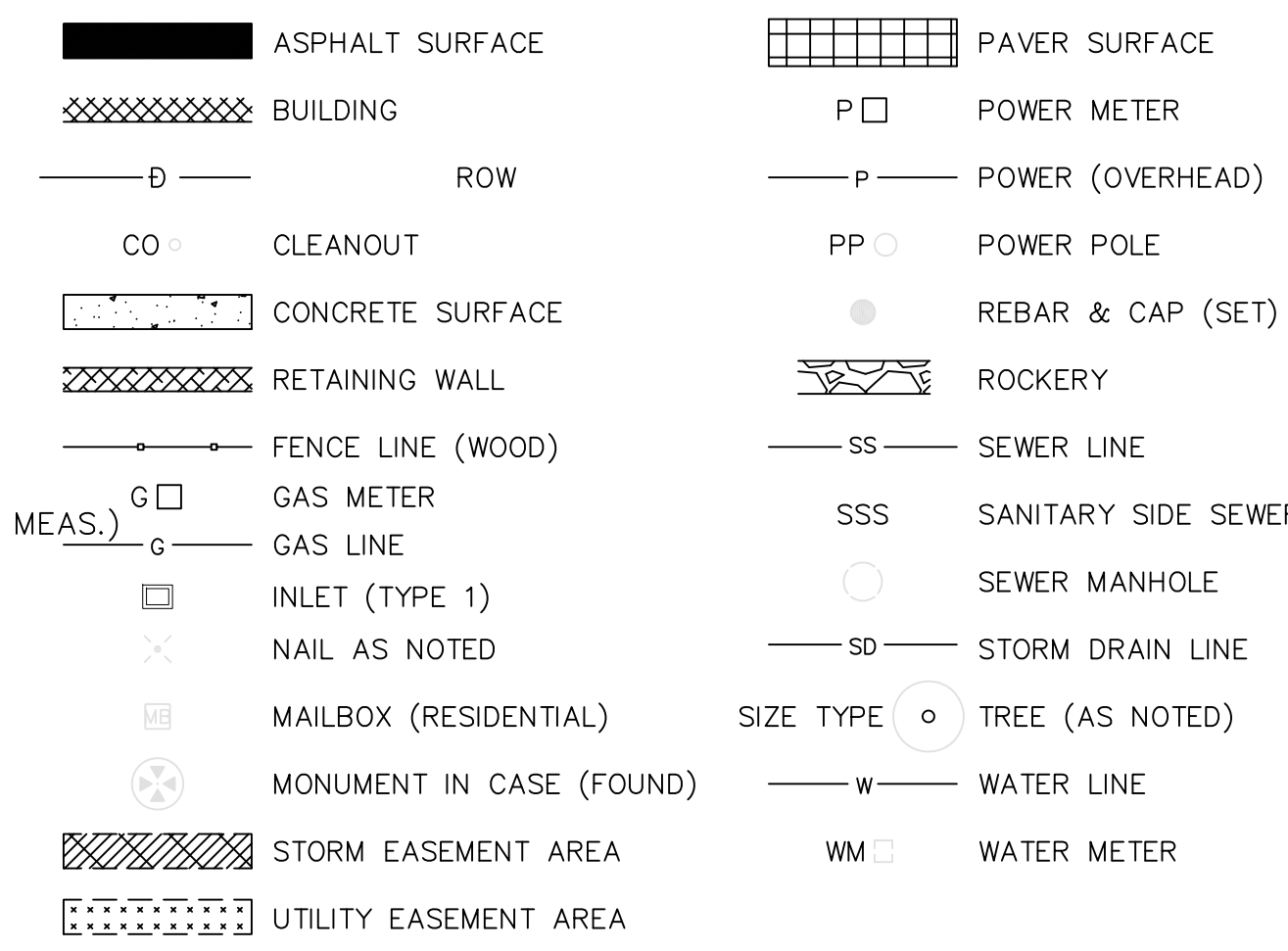
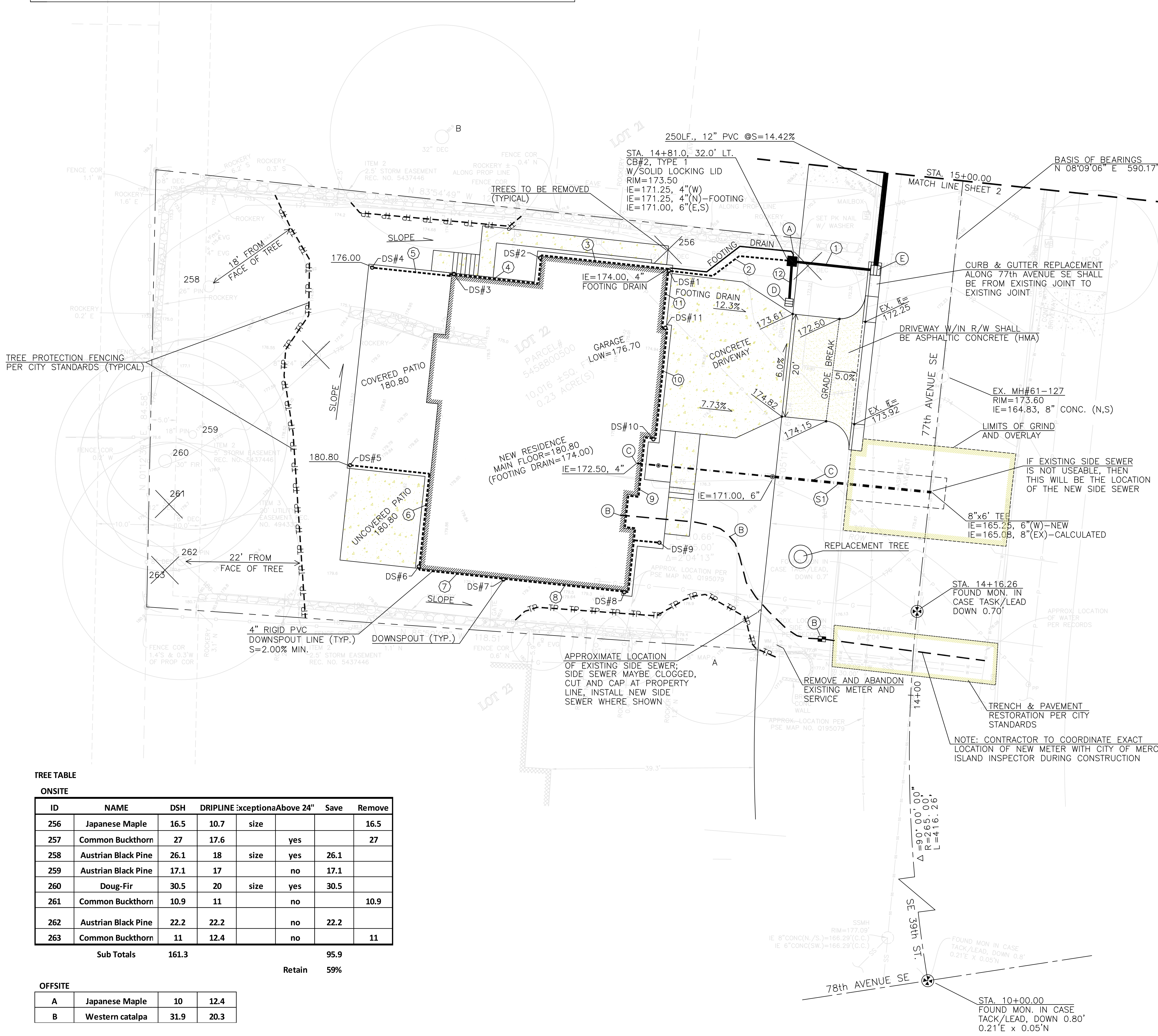
	02/10/2022	1	06/14/22	REVISED PER CITY COMMENTS 2202-219-SUB1	DATE	REV. NO.	DESCRIPTION
<b>OFFE ENGINEERS</b> 13902 SOUTHEAST 159TH PLACE RENTON, WASHINGTON 98058 PHONE: 425-260-3412 CONTACT: DARRELL OFFE, P.E.	DESIGNED BY	DRAWN BY	CHECKED BY	VS	DLO	DLO	DLO
	<b>3745 77th Avenue SE</b> <b>JayMarc Custom - Piha Residence</b> <b>AMENDED SOILS PLAN</b>						
PROJECT	DATE 06/14/2022						
CLIENT	JOB NO.						
SHEET CONTENT	DWG NO.						
<b>3</b>	SHEET OF <b>6</b>						
PERMIT #: 2202-219							



SW 1/4 OF THE SE 1/4 OF SECTION 12, TOWNSHIP 24 NORTH., RANGE 4 EAST, W.M., KING COUNTY, WA.

NOTE: THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.  
CALL BEFORE YOU DIG: 811



NOTES:

- (A) FOOTING DRAIN CONNECTION, IE=171.25, 4"
- (B) INSTALL NEW 1" WATER SERVICE AND METER
- (C) NEW SIDE SEWER
- (D) CB#3, TYPE 1 W/OIL WATER SEPARATOR GRATE=173.50 OVERFLOW=173.25, 6" IE=171.50, 6"(N) BOTTOM OF TEE=171.00, 6"
- (E) STA. 14+81.0, 15.0' LT. CB#1, TYPE 1 W/VANED GRATE INLET GRATE=171.41 IE=169.00, 6"(W) IE=168.40, 12"(N)

STORM PIPE TABLE

1	17LF., 6" PVC SDR-35 @ S=11.76%
2	24LF., 4" PVC SDR-35 @ S=7.29%
3	27LF., 4" PVC SDR-35 @ S=2.00%
4	22LF., 4" PVC SDR-35 @ S=2.00%
5	16LF., 4" PVC SDR-35 @ S=2.00%
6	32LF., 4" PVC SDR-35 @ S=2.00%
7	17LF., 4" PVC SDR-35 @ S=2.00%
8	24LF., 4" PVC SDR-35 @ S=2.00%
9	38LF., 4" PVC SDR-35 @ S=8.03%
10	23LF., 4" PVC SDR-35 @ S=2.00%
11	12LF., 4" PVC SDR-35 @ S=6.25%
12	8LF., 6" PVC SDR-35 @ S=6.25%

DOWNSPOUT TABLE

DS#1	GROUND=176.70 DOWNSPOUT LINE=173.00, 4"
DS#2	GROUND=176.00 DOWNSPOUT LINE=174.15, 4"
DS#3	GROUND=176.00 DOWNSPOUT LINE=174.63, 4"
DS#4	GROUND=176.00 DOWNSPOUT LINE=174.95, 4"
DS#5	CONCRETE=180.80 DOWNSPOUT LINE=179.45, 4"
DS#6	CONCRETE=180.80 DOWNSPOUT LINE=178.80, 4"
DS#7	GROUND=179.30 DOWNSPOUT LINE=178.46, 4"
DS#8	GROUND=179.30 DOWNSPOUT LINE=177.95, 4"
DS#9	CONCRETE=180.60 DOWNSPOUT LINE=179.00, 4"
DS#10	GROUND=176.50 DOWNSPOUT LINE=174.90, 4"
DS#11	CONCRETE=176.70 DOWNSPOUT LINE=174.40, 4"

SEWER PIPE TABLE

(S1)	31LF., 6" PVC SDR-35 @ S=18.55%
(S2)	27LF., 4" PVC SDR-35 @ S=5.56%

NOTE: 4" PERFORATED FOOTING DRAIN REQUIRED BUT NOT SHOWN ON PLAN, CONNECT WHERE SHOWN ON PLAN

STORM PIPE PVC SHALL BE SDR-35 PVC AT SLOPE=2.00% MINIMUM (TYPICAL) UNLESS OTHERWISE NOTED

IMPERVIOUS SURFACES:  
ROOF AREA (UNDER EAVES) = 3,308 SQ. FEET  
UNCOVERED DRIVEWAY AREA = 659 SQ. FEET  
UNCOVERED PATIO/WALKWAYS = 518 SQ. FEET  
TOTAL IMPERVIOUS AREAS = 4,485 SQ. FEET

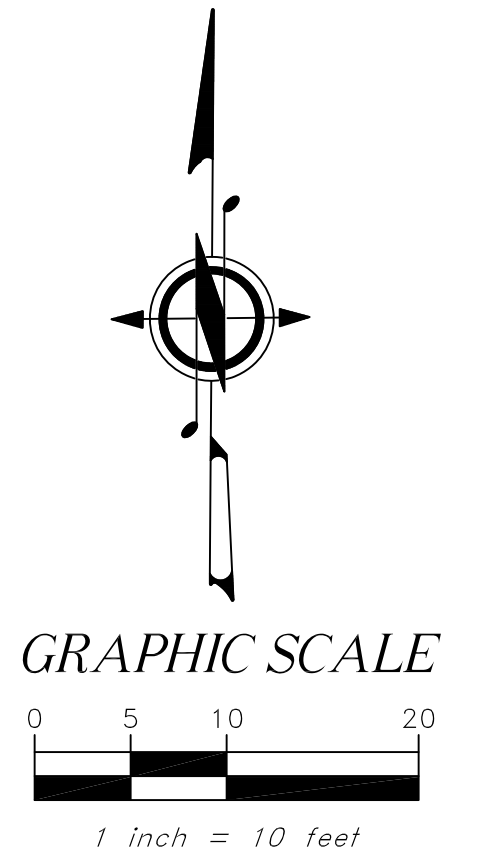
LANDSCAPE AREAS NOTE:  
DISTURBED LANDSCAPE AREAS SHALL BE TREATED AS AMENDED SOILS PER DOE FIGURE V-5.3.3, TYPICAL

TREE TABLE

ID	NAME	DSH	DRIPLINE	Exception Above 24"	Save	Remove
256	Japanese Maple	16.5	10.7	size		16.5
257	Common Buckthorn	27	17.6	yes		27
258	Austrian Black Pine	26.1	18	size	yes	26.1
259	Austrian Black Pine	17.1	17		no	17.1
260	Doug-Fir	30.5	20	size	yes	30.5
261	Common Buckthorn	10.9	11		no	10.9
262	Austrian Black Pine	22.2	22.2		no	22.2
263	Common Buckthorn	11	12.4		no	11
Sub Totals		161.3			95.9	
					Retain	59%

OFFSITE

A	Japanese Maple	10	12.4
B	Western catalpa	31.9	20.3



**OFFE ENGINEERS**  
13902 SOUTHEAST 159TH PLACE  
RENTON, WASHINGTON 98058  
PHONE: 425-260-3412  
CONTACT: DARRELL OFFE, P.E.

3745 77th Avenue SE

CHECKED BY: DLO

DRAWN BY: VS

DESIGNED BY: DLO

JayMarc Custom - Pihha Residence

DATE: 06/16/2022

JOB NO.:

DWG NO.:

UTILITY & TREE PLAN

SHEET CONTENT

DATE: 06/16/2022

REVISED PER CITY COMMENTS 2202-219-SUB1

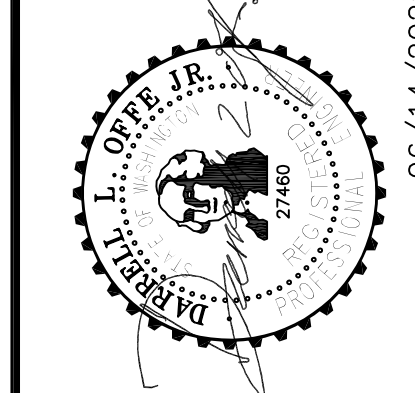
4
OF
6

SW 1/4 OF THE SE 1/4 OF SECTION 12, TOWNSHIP 24 NORTH., RANGE 4 EAST, W.M., KING COUNTY, WA.

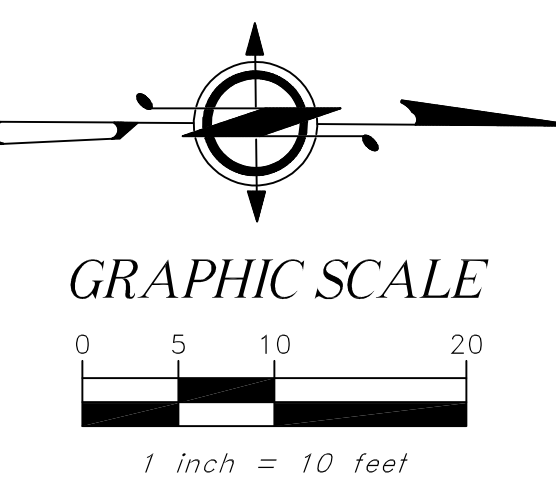
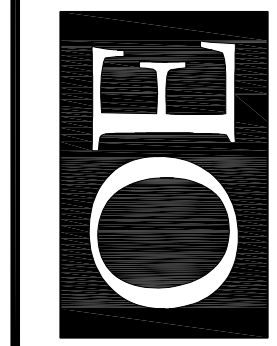
EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.  
CALL BEFORE YOU DIG: 811



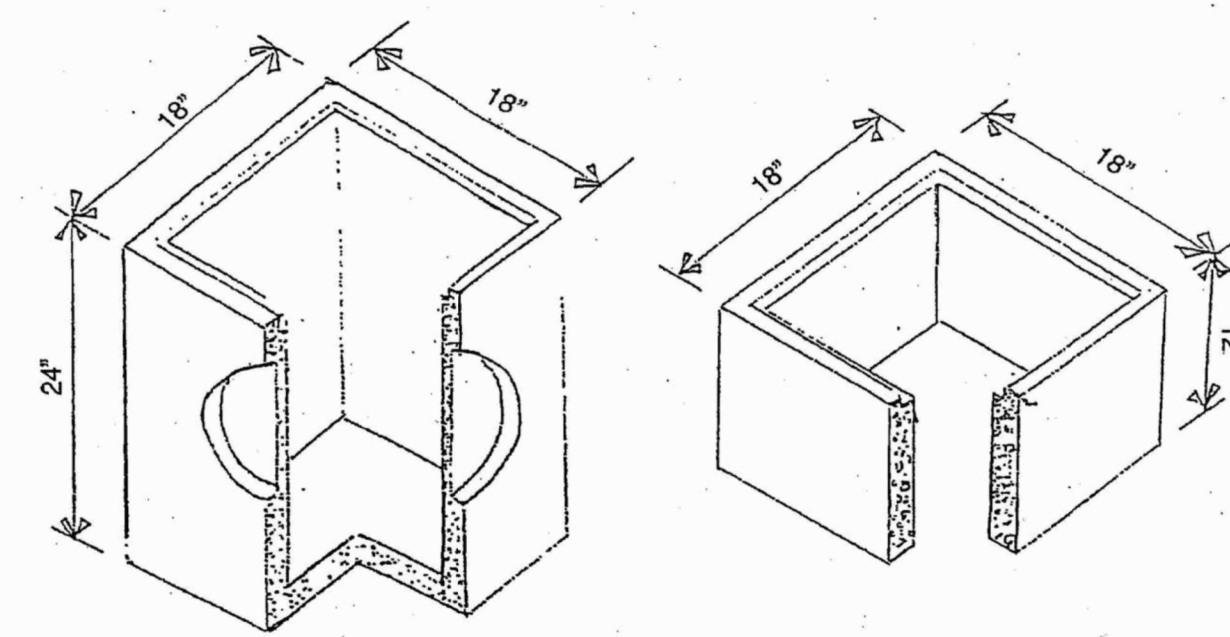
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CLIENT	JayMarc Custom - Pihha Residence		
SHEET CONTENT	OFF SITE STORM EXTENSION		
DATE	06/14/2022	DESIGNED BY	DLO
JOB NO.		DRAWN BY	VS
DWG NO.		CHECKED BY	DLO
SHEET	5	REVISED PER CITY COMMENTS 2202-219-SUB1	
OF	6	DATE	06/14/2022
		REV. NO.	1
		DESCRIPTION	



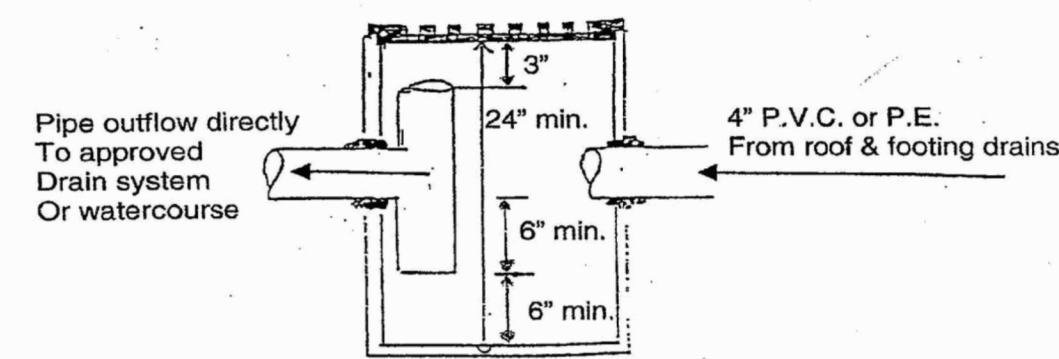
**OFFE ENGINEERS**  
13902 SOUTHEAST 159TH PLACE  
RENTON, WASHINGTON 98058  
PHONE: 425-260-3412  
CONTACT: DARRELL OFFE, P.E.



PERMIT #: 2202-219

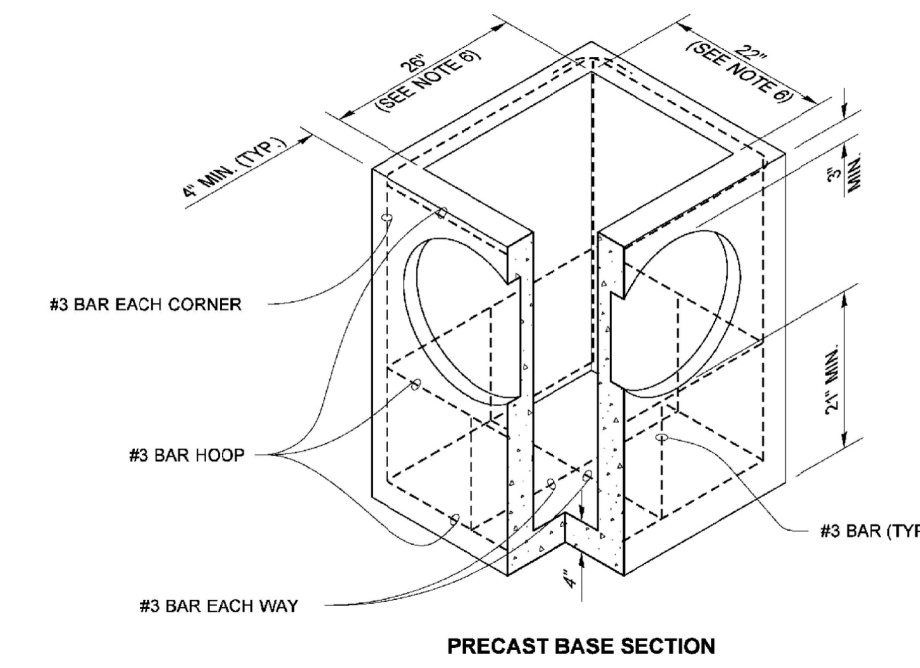
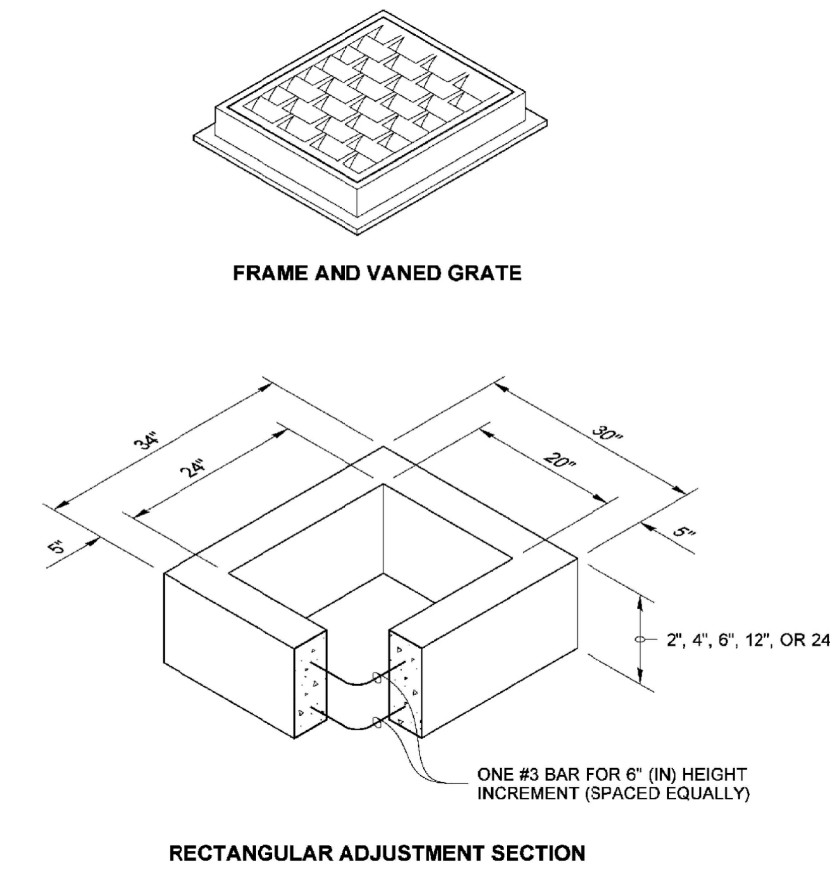


Catch Basin (C.B.)  
Depth & Volume are  
Minimum Dimensions.  
Minimum Volume = 24 gal.  
6" & 12" Adjustment Riser



Catch Basin with Oil Separator

DRAWN BY: FERIN LIDDELL



PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSP* (STD. SPEC. SECT. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	10"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	10"

\* CORRUGATED POLYETHYLENE STORM SEWER PIPE

24", 4", 6", 12", OR 24"

ONE #3 BAR FOR 6" (IN) HEIGHT INCREMENT (SPACED EQUALLY)

1/8" MIN. (TYP)

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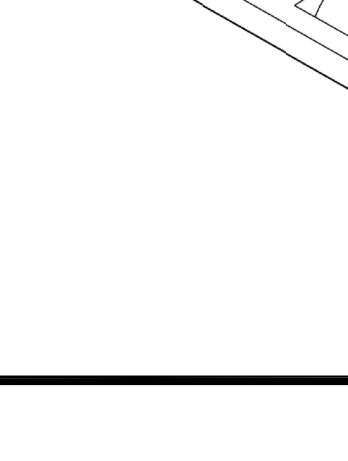
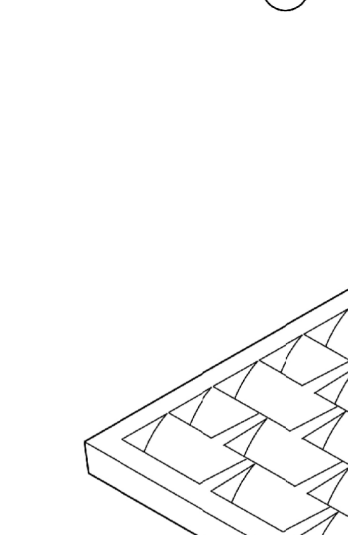
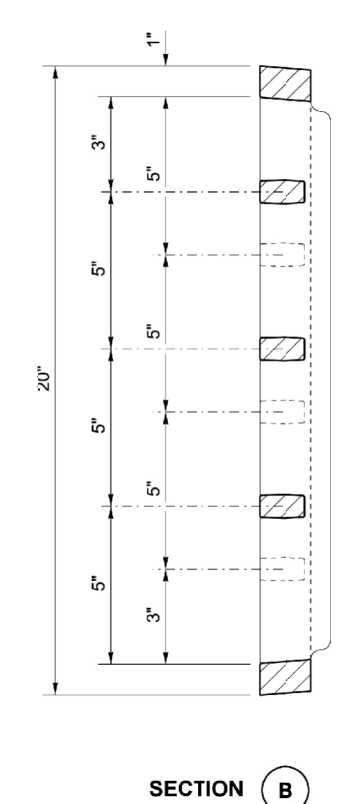
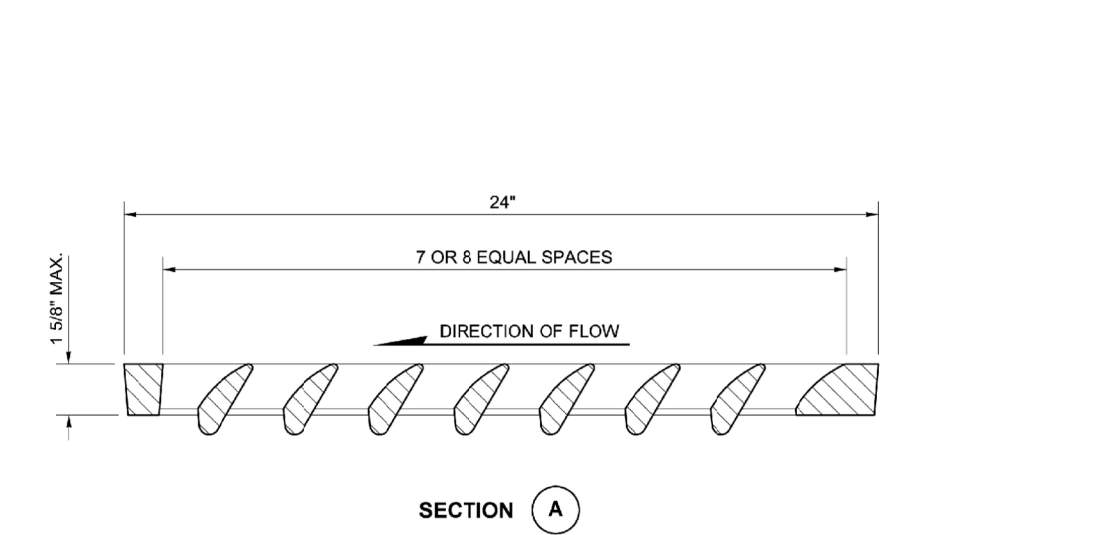
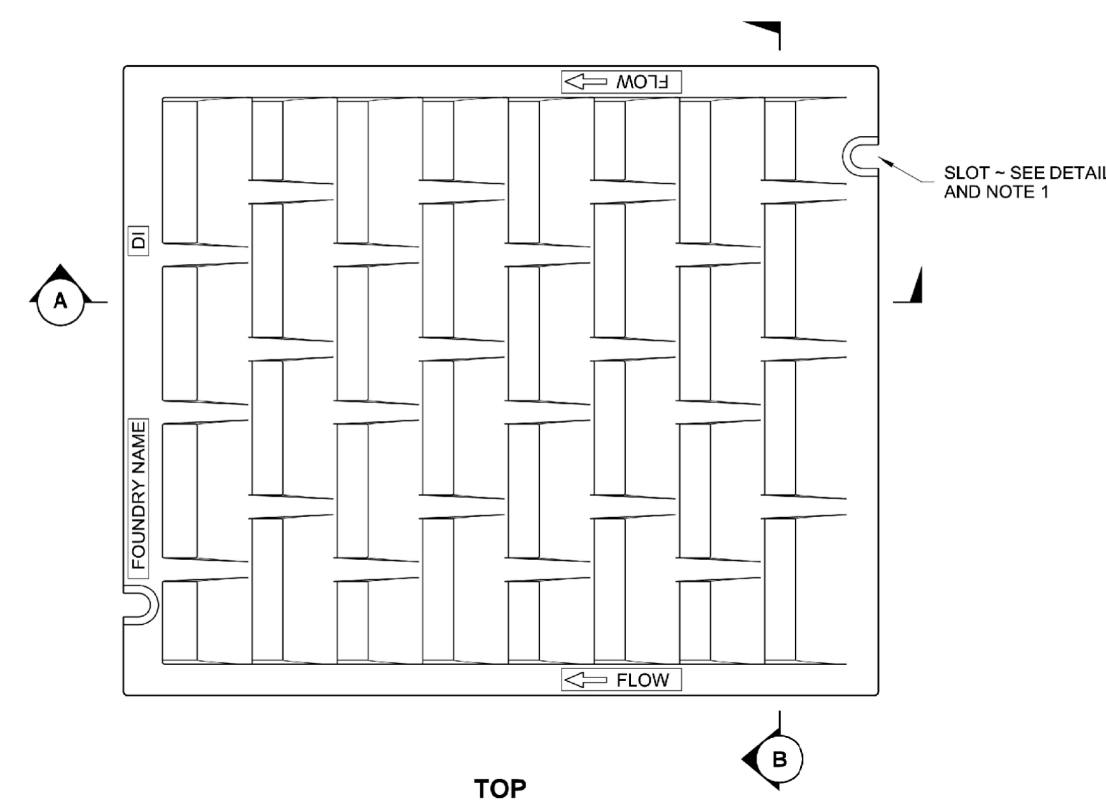
1/8" MIN. (TYP)

1/8" MIN. (TYP)

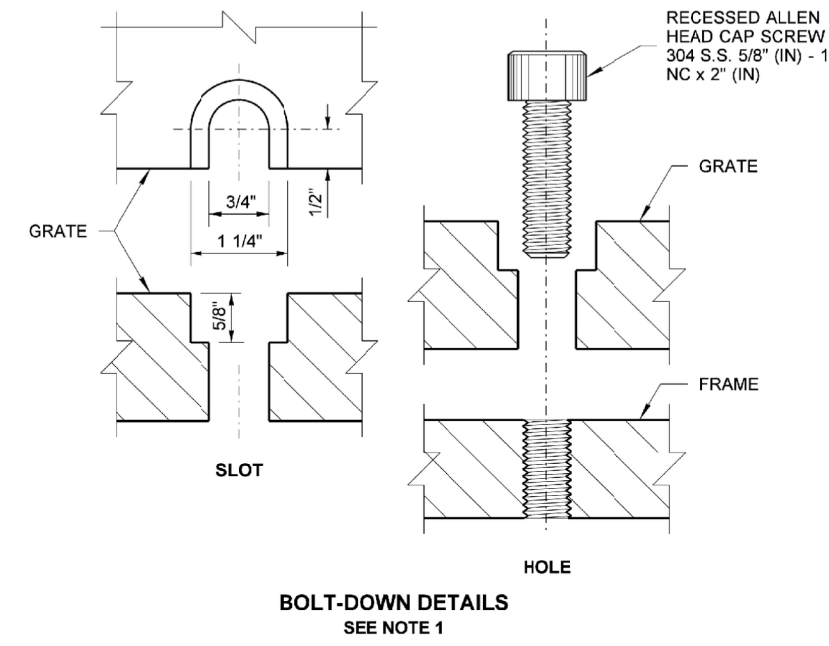
1/8" MIN. (TYP)

1/8" MIN. (TYP)

DRAWN BY: FERIN LIDDELL



- NOTES
1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
  2. Refer to Standard Specification Section 9-05.15 and 9-05.15(2) for additional requirements.
  3. For frame details, see Standard Plan B-30.10.

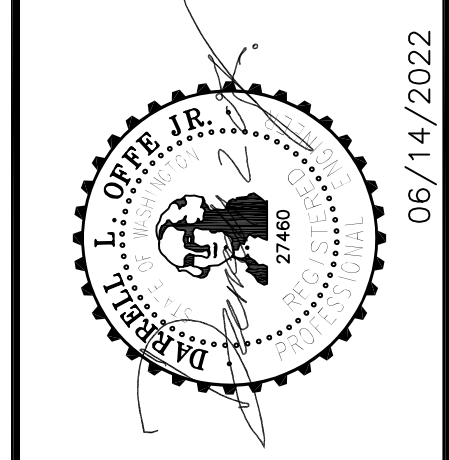


Julie Holman  
 2003-00107-07-50-07307  
**CATCH BASIN TYPE 1**  
**STANDARD PLAN B-5.20-03**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 Roark, Steve  
 Digitally signed by Roark, Steve  
 Date: 2022.06.14 10:45:23 -0700  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation

Julie Holman  
 2003-00107-07-50-07307  
**RECTANGULAR VANED GRATE**  
**STANDARD PLAN B-30.30-03**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 Roark, Steve  
 Digitally signed by Roark, Steve  
 Date: 2022.06.14 10:45:23 -0700  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation

PERMIT #: 2202-219

REV. NO.	DATE	DESCRIPTION
1	06/14/22	REVISED PER CITY COMMENTS 2202-219-SUB1



**OFFE ENGINEERS**  
 13902 SOUTHEAST 159TH PLACE  
 RENTON, WASHINGTON 98058  
 PHONE: 425-260-3412  
 CONTACT: DARRELL OFFE, P.E.

Julie Holman  
 2003-00107-07-50-07307  
**CATCH BASIN TYPE 1**  
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 Date: 2022.06.14 10:45:23 -0700  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation

**3745 77th Avenue SE**  
**JayMarc Custom - Piha Residence**  
**UTILITY DETAILS**

PROJECT: 3745 77th Avenue SE  
 CLIENT: JayMarc Custom - Piha Residence  
 SHEET CONTENT: UTILITY DETAILS

DATE: 06/14/2022  
 JOB NO.:  
 DWG NO.:

DESIGNED BY: DLO  
 DRAWN BY: VS  
 CHECKED BY: DLO

# TOPOGRAPHIC & BOUNDARY SURVEY

## LEGAL DESCRIPTION

LOT 22 BLOCK 6, MERCERDALE ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 59 OF PLATS, PAGE 94, IN KING COUNTY, WASHINGTON.  
SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

## BASIS OF BEARINGS

HELD N 08°09'06" E BETWEEN MONUMENTS FOUND ON THE CENTERLINE OF 77TH AVE SE. NAD 83(2011) WASHINGTON NORTH STATE PLANE COORDINATES PER GPS OBSERVATIONS.

## REFERENCES

R1. PLAT OF MERCERDALE, VOL. 59, PG. 94, RECORDS OF KING COUNTY, WASHINGTON.

## VERTICAL DATUM

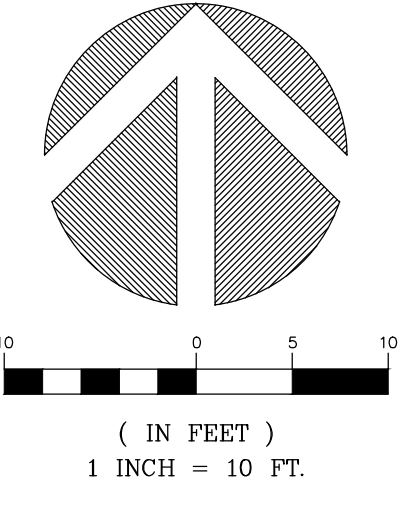
NAV888 PER GPS OBSERVATIONS.

## SURVEYOR'S NOTES

1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN FEBRUARY OF 2021 & JANUARY OF 2022. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).
4. SUBJECT PROPERTY TAX PARCEL NO. 545880-0500
5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 10,016 ±S.F. (0.23 ACRES)
6. THE PROPERTY DESCRIBED HEREON IS THE SAME AS THE PROPERTY DESCRIBED IN TIDOR TITLE COMPANY COMMITMENT NO. 70080002, WITH AN EFFECTIVE DATE OF OCTOBER 4, 2017 AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY.
7. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.

## SCHEDULE B ITEMS

1. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON THE PLAT OF MERCERDALE. (NOTHING TO PLOT)
2. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:  
PURPOSE: UTILITY EASEMENTS FOR DRAINAGE  
RECORDING DATE: JUNE 8, 1962  
RECORDING NO.: 5437446  
AFFECTS: THE REAR 5 FEET AND OVER THE INTERIOR LOT LINES (PLOTTED)
3. COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, SOURCE OF INCOME, GENDER, GENDER IDENTITY, GENDER EXPRESSION, MEDICAL CONDITION OR GENETIC INFORMATION, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH IN THE DOCUMENT  
RECORDING DATE: SEPTEMBER 15, 1958  
RECORDING NO.: 4943327 (PLOTTED)



## LEGEND

	ASPHALT SURFACE		PAVER SURFACE
	BUILDING		POWER METER
	ROW		POWER (OVERHEAD)
	CLEANOUT		POWER POLE
	CONCRETE SURFACE		REBAR & CAP (SET)
	RETAINING WALL		ROCKERY
	FENCE LINE (WOOD)		SEWER LINE
	GAS METER		SANITARY SIDE SEWER
	GAS LINE		SEWER MANHOLE
	INLET (TYPE 1)		STORM DRAIN LINE
	NAIL AS NOTED		TREE (AS NOTED)
	MAILBOX (RESIDENTIAL)		WATER LINE
	MONUMENT IN CASE (FOUND)		WATER METER
	STORM EASEMENT AREA		
	UTILITY EASEMENT AREA		

## VICINITY MAP

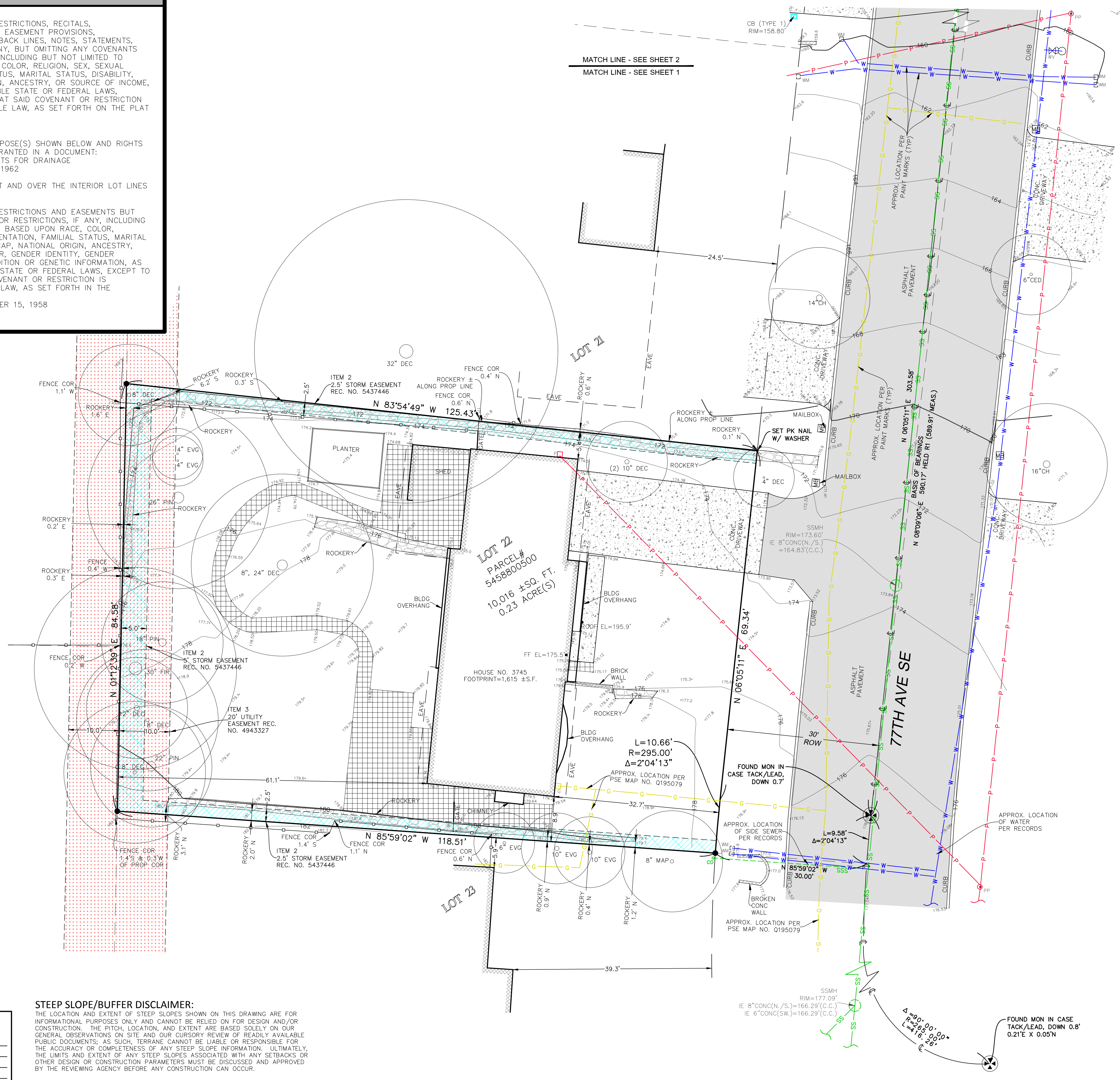
N.T.S.



### INDEXING INFORMATION

SW 1/4	SE 1/4
SECTION: 12	
TOWNSHIP: 24N	
RANGE: 04E, W.M.	
COUNTY: KING	

**STEEP SLOPE/BUFFER DISCLAIMER:**  
THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE PITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS; AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY STEEP SLOPE INFORMATION. ULTIMATELY, THE LIMITS AND EXTENT OF ANY STEEP SLOPES ASSOCIATED WITH ANY SETBACKS OR OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.



TOPOGRAPHIC & BOUNDARY SURVEY  
PARCEL NO. 545880500

PIHA RESIDENCE

3745 77TH AVE SE  
MERCER ISLAND, WA 98040



**Terrane**  
10801 Main Street, Suite 102, Bellevue, WA 98004  
phone 425.458.4488 support@terrane.net  
www.terrane.net

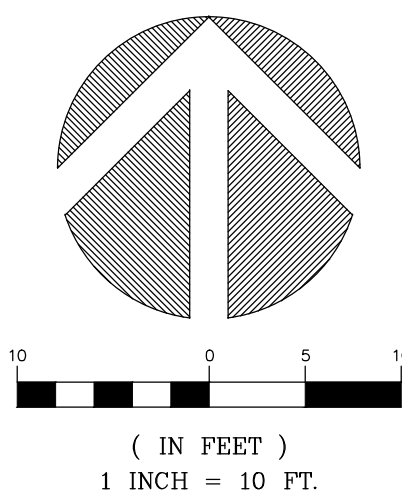
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DATE:	02/09/2021
DRAFTED BY:	IDV / DSS
CHECKED BY:	JPS
SCALE:	1" = 10'
<b>REVISION HISTORY</b>	
08/02/21	PER COMMENTS
01/24/22	ADDTL TOPO
<b>SHEET NUMBER</b>	
1 OF 2	

measure success

# TOPOGRAPHIC & BOUNDARY SURVEY

## LEGEND

	ASPHALT SURFACE		PAVER SURFACE
	BUILDING		POWER METER
	ROW		POWER (OVERHEAD)
	CLEANOUT		POWER POLE
	CONCRETE SURFACE		REBAR & CAP (SET)
	RETAINING WALL		ROCKERY
	FENCE LINE (WOOD)		SEWER LINE
	GAS METER		SANITARY SIDE SEWER
	GAS LINE		SEWER MANHOLE
	INLET (TYPE 1)		STORM DRAIN LINE
	NAIL AS NOTED		TREE (AS NOTED)
	MAILBOX (RESIDENTIAL)		WATER LINE
	MONUMENT IN CASE (FOUND)		WATER METER
	STORM EASEMENT AREA		
	UTILITY EASEMENT AREA		



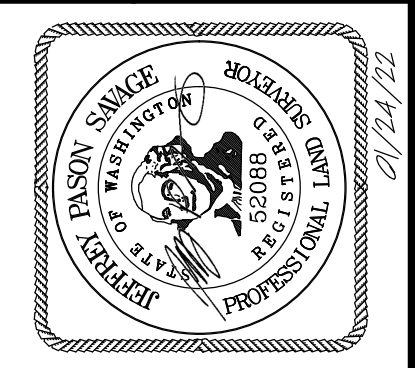
MATCH LINE - SEE SHEET 2  
MATCH LINE - SEE SHEET 1

INDEXING INFORMATION

SW	SE
NW	NE
SECTION: 12	
TOWNSHIP: 24N	
RANGE: 04E, W.M.	
COUNTY: KING	

measure success

TOPOGRAPHIC & BOUNDARY SURVEY  
PARCEL NO. 5456800500  
PIHA RESIDENCE  
3745 77TH AVE SE  
MERCER ISLAND, WA 98040



**Terrane**  
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JOB NUMBER:	210045
DATE:	02/09/2021
DRAFTED BY:	IDV / DSS
CHECKED BY:	JPS
SCALE:	1" = 10'
REVISION HISTORY	
08/02/21	PER COMMENTS
01/24/22	ADDTL TOPO
SHEET NUMBER	
2 OF 2	