## PIHA RESIDENCE

3745 77th Ave SE - MERCER ISLAND, WA.

ALARMS per R314.5 and R315..4

BUILDING CODES

CITY OF MERCER ISLAND CODES AT THE

2018 INTERNATIONAL BUILDING CODE (IBC)

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 POOL AND SPA CODE

2018 INTERNATIONAL RESIDENTIAL CODE (IRC)

2018 INTERNATIONAL MECHANICAL CODE (IMC)

2018 INTERNATIONAL FUEL GAS CODE (IFGC)

FOR THIS SET

DATE OF THIS DRAWING SET:

#### GENERAL INFORMATION APPLIES FULL SET

DESCRIPTION

#### 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 +72" 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 R3II & R3I2
- K. ALL REQUIREMENTS FOR BUILDING ENVELOPE TO COMPLY WITH THE 2018 WASHINGTON STATE ENERGY CODE (WSEC). SEE REQ'D ENERGY CREDITS ON THIS SHEET ALONG W/ ENI FOR PRESCRIPTIVE REQUIREMENTS and COMPLIANCE NOTES FOR SINGLE FAMILY RESIDENTIAL IN CLIMATE ZONE 5 and MARINE
- 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 INGITION SOURCES TO BE min. 18" ABV. GARAGE FLOOR per IRC. MI307.3
- O. PROVIDE FIREBLOCKING TO CUT OFF DRAFT OPENINGS AT LOCATIONS W/MATERIALS per IRC. R302.II PROVIDE DRAFTSTOPPING 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 73 -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" (U.N.O.) UPPER FLOOR 9'-1 1/8" (U.N.O.)

#### SAFETY GLAZING

SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS AS REQUIRED BY THIS SECTION SHALL HAVE MFGR'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

- I. GLAZING IN DOORS.
- 2. GLAZING ADJACENT TO DOORS.
- 3. GLAZING IN WINDOWS MEETING ALL (4) CONDITIONS LISTED.
- 4. GLAZING IN GUARDS and RAILINGS
- 5. GLAZING IN and NEAR WET SURFACES.
- 6. GLAZING ADJACENT TO STAIRS and RAMPS 7. 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 OPENING REQUIRED AT BASEMENTS, HABITABLE ATTICS and ALL SLEEPING ROOMS and SHALL OPEN DIRECTLY INTO A PUBLIC WAY or YARD TO SAME per IRC. R3101 WINDOW CANNOT REQUIRE KEYS, TOOLS or SPECIAL

- KNOWLEDGE TO OPEN per IRC. 310.1.1 • MUST HAVE AN OPENING AREA OF NOT LESS THAN 5.7
- Sq.Ft. with 20" min. WIDTH and 24" min. HEIGHT per IRC.
- 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. R311.7.1 through R311.7.9 INCLUDING:

- SHALL PROVIDE A MIN. CLEAR WIDTH OF 36" ABOVE HANDRAIL W/MAX. HANDRAIL PROJECTION INTO STAIRWAY OF 4½" 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
- 151" BTWN. FLOOR LEVELS or LANDINGS per R311.7.3
- SHALL MEET THE WALKLINE REQUIREMENTS AT WINDER TREADS per R311.7.4
- SHALL HAVE A MAX. RISER HEIGHT OF 73" and HAVE A MIN. TREAD DEPTH OF IO" THE GREATEST DIMENSION OF ANY RISER OR TREAD MUST NOT EXCEED THE SMALLEST DIMENSION BY MORE THAN ?". TREADS LESS THAN II" SHALL MEET NOSING REQUIREMENTS. THE OPENINGS AT OPEN RISERS SHALL NOT PERMIT THE PASSAGE OF A 4" PSPHERE per R311.7.5.1 through
- 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. 15" 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.
- OPENINGS MUST PREVENT THE PASSAGE OF A 4" SPHERE or 43" AT OPEN SIDES OF STAIRS or 6" AT TRIANGLE OF TREAD, RISER & BOTTOM RAIL per
- 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 2001bs. IN ANY DIRECTION ALONG THE TOP and GUARD INFILL MUST RESIST A 501b. LOAD APPLIED HORIZ. OVER I Sq.Ft. per IRC. TABLE R301.5

#### <u>ALARMS</u>

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

- SMOKE ALARMS TO BE LISTED and INSTALLED IN ACCORDANCE W/IRC. R314.1.1 and CARBON MONOXIDE ALARMS IN ACCORDANCE W/IRC. 315.1.1
- SMOKE ALARMS SHALL BE INSTALLED IN FOLLOWING
- LOCATIONS per R314.3 : I. IN EACH SLEEPING ROOM.

R314.6 and R315.5

2. OUTSIDE EACH SEPARTE SLEEPING AREA.

THE FOLLOWING LOCATIONS per R315.3:

- 3. ON EACH STORY OF THE DWELLING. 4. NOT LESS THAN 3' FROM A BATHROOM W/TUB or
- SHOWER. 5. NOT NEAR COOKING APPLIANCES per R314.3.1
- SMOKE ALARMS SHALL BE INTERCONNECTED per
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN
- I. ON EACH STORY OF THE DWELLING 2. ADJACENT TO EACH SEPARATE SLEEPING AREA. 3. 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
- COMBINATION SMOKE and CARBON MONOXIDE ALARMS SHALL BE PERMITTED IN LIEU OF SEPARATE

#### ABBREVIATIONS

PROJECT TEAM

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COVER SHEET

ARCHITECTURAL DESIGN -

ARCHITECTURAL DRAFTING

JAYMARC HOMES

M&K ENGINEERING

							AT
"		ELEC Elec				SLB Slab	
& @		ELEV Elev				SPEC Specification	A1.1
-		EW Eac		Overlo MECH		SQ Square SQ IN Square inches	,
		EXC Exc	,			SQFT Square feet	4.0
		EXH Exh		MEME		STC Sound Transmission	A2
		EXIST				Coefficient	
		EXT Ext	3			STD Standard	۸ ၁
	,	FBD Fibe				STL Steel	A3
						STR Structural	
	Above Finish Floor			MLB	Micro Laminate Beam	STRUCT Structure or	A4
	Aggregate	FD Floo				Structural	<b>△</b>
ALT		FIN Fini		MTL		SY Square yard	
ALUM		FIXT Fixt				T Tread	A5
		FLOR Flue				T&G Tongue and Groove	,
	, ,pp. 0,,,,,,	FLR Floo		NO		TEL Telephone	4.0
ASPH		FLSH Flas				TEMP Tempered	A6
AUTO	,	FND Fou FO Fac				TK Tight Knot TME To Match Existing	
AVR	Average American Wire Gauge		ce of Concrete		Non-Operable Window		۸ 7
		FOM Fac	ce of Masonry	Secti		TOB Top of Beam	A7
	3					TOC Top of curb/ Top of	
	Dy Cuicis					Concrete	A8
		FPL Fire				TOF Top of footing	70
		FRM Fra				TOJ Top of joist	
		FRPF Fire	\ 3/		_	TOW Top of wall	A9
		FT Foo	,		* *.	TP Toilet Paper Hanger	<i>,</i> 10
		FTG Foo		OPNG	Opening or	TYP Typical	
		FUR Fur	red		h Opening	UNO Unless Noted	A10
		GA Gau				Otherwise	
	Redroom	GALVGal		Board		VB Vapor barrier	A 4 4
BSMT			ound Fault Circuit	PBD	Particle Board	VERT Vertical	A11
		Interrupt				VIF Verify in field	
BYND						W/ With	A12
		Interrupt			Property Line	W/O Without	A12
	0 4 0 0 1 1 0 1 1 0	GL Gla		PLAM	DI-T-		
		GLB Glu	e Laminated Beam	PLYW	ID DI	WD Wood	S0.0
	9		ss block sum Wall Board		Datat an Datatad	WDW Window	00.0
		GYP Gyp	osum	PSF	Daniel Dan Carrage	WH Water Heater	
				Foot	·	WIC Walk-In Closet	LB-1
						WP Water Proofing WP Weatherproof	
		HDR Hed		Inch	•	WP Weatherproof WR Weather Resistant	LB-2
	Clear	HDWR	Hardware	PT		WRB Weather Resistive	LD-Z
CMU		HT Hei			Polyvinyi Chioride	Barrier	
Unit		HVAC			Pavement	WWF Welded Wire Fabric	LB-3
		Condition			Riser	X Operable Window	
		HW Hot			Rod and Shelf	Section	
CONC	001101010				Reinforced Concrete		SD.01
		ILO In I			Rod Roof Drain		
	ou.pot	IN Incl			Roof drain leader		D4
				REBA			D1
CU F		INSUL		REFR			
CU Y		INT Inte			Register		E1
		J-Box			Reinforced		<b>∟</b> '
DEMC		JNT Joir	nt		Required		
Demo	olition	JST Jois			Required		E2
DH	Double Hung	KD Kiln			Revision		
		KIT Kito			Roofing		
			·····aco(a)		Room		EN1
DN		LAV Lav	. a.c., j		Rough Opening		
		LB Pou			Right of way		
DR DRWR	_		eal Feet		Supply Air Schedule		
			e Load		Screen		
		LTC Ligh			Smoke detector		
		LTG Ligh	nting ninated Veneer		Section		
		Lumber	imiated venter		Sliding Glass Door		
		LVR Lou	ıver		Shelf		
EF		MAS Mas			Sheathing		
	Expansion Joint	MAX Max			Similar		
EL	Elevation	MBR Mer	mber	SIM	Similar		

#### SQUARE FOOTAGE SUMMARY

MAIN FLOOR/ MAIN LIVING MAIN FLOOR A.D.U. GARAGE	1,700 S.F. 83 S.F. 712 S.F.
SUB TOTAL	2,495 S.F.
UPPER FLOOR/ MAIN LIVING UPPER FLOOR A.D.U. MINUS A.D.U. STAIRS MINUS MAIN STAIRS	1,459 S.F. 687 S.F. -53 S.F. -92 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A. ALLOWABLE F.A.R. 45% PROPOSED	4,496 S.F. 4,507 S.F. 44.3%
TOTAL NET AREA MAIN HOUSE GARAGE TOTAL NET A.D.U.	1,783 S.F. 712 S.F. 740 S.F.
SUB TOTAL	3,235 S.F.
COV'D PATIO COV'D PORCH	572 S.F. 68 S.F.
OVERALL WIDTH OVERALL DEPTH Updated: 03/09/2018	62'-6 1/4" 44' -1 1/2"
Mathad for Calculating Square Footage ANGL 7	7765 2013 avecant no concent

Method for Calculating Square Footage - ANSI Z765-2013 except: no separate distinction of 'above-grade or below-grade' areas <u>and</u> each level is measured to the 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.

#### SHEET INDEX

SHEET#

-		Bestim Horr
	A1	COVERSHEET
	A1.1	A.D.U FLOOR PLAN INFORMATION
	A2	SITE PLAN
	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
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	A12	BUILDING SECTIONS
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	SD.01	FOUNDATION DETAILS
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	E1	MAIN FLOOR ELECTRICAL LAYOUT
	E2	UPPER FLOOR ELECTRICAL LAYOUT
	EN1	2018 ENERGY CODE CALCULATIONS

#### F.A.R. CALCULATIONS:

Submittal Date

Sheet Title/Description |Design Firm Drawn by: Checked by:

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

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

425.266.9100

/\ Issue Issue Date By

Description

SIDENCE th Ave SE

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marketing name: XXXXX

Conditions not specifically represented

Residential Code (IRC.) and/or those

of the local municipality then the

of each respectively shall govern.

instruments of service and shall

remain the property of JayMarc

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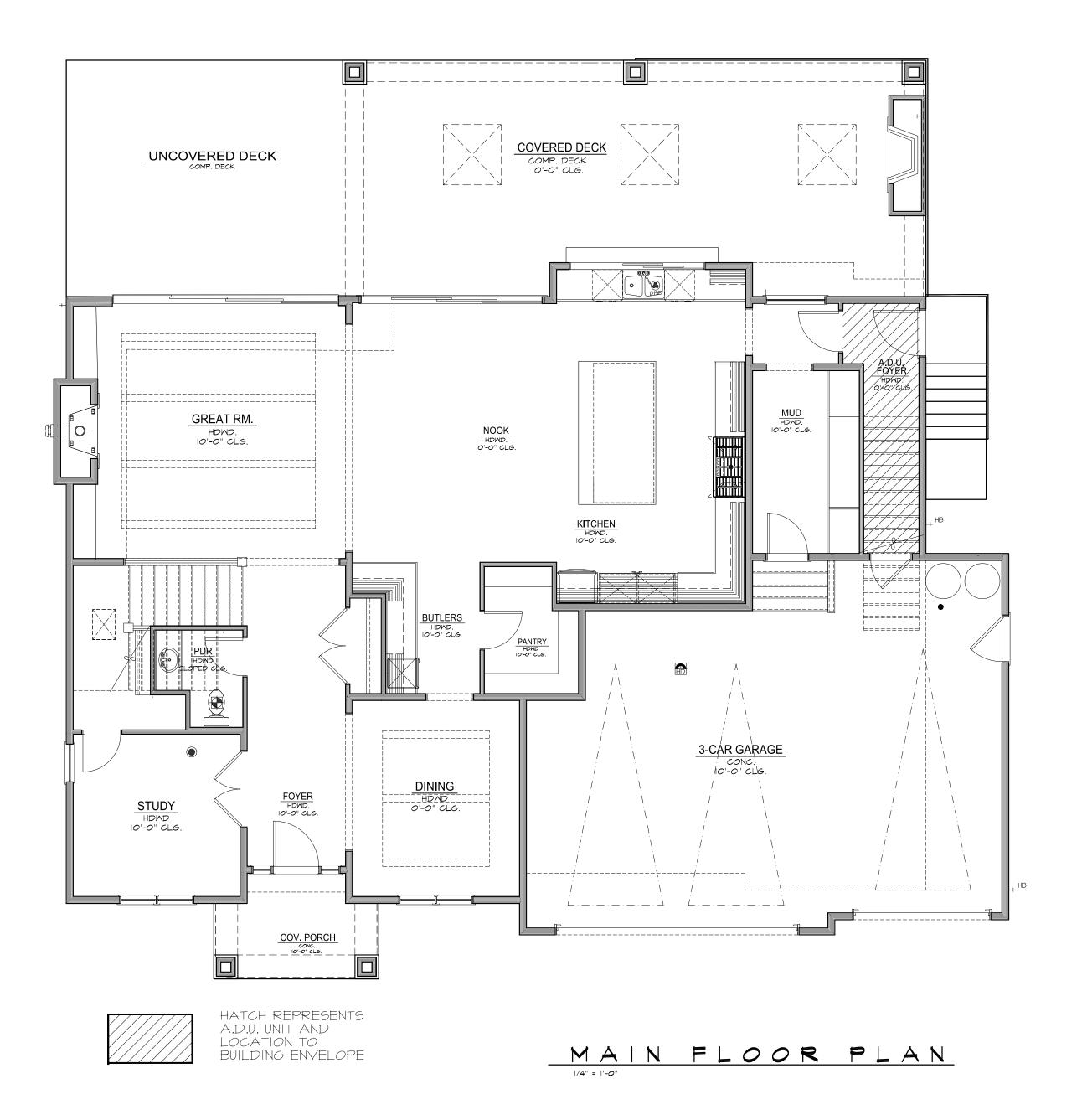
current standards and requirements

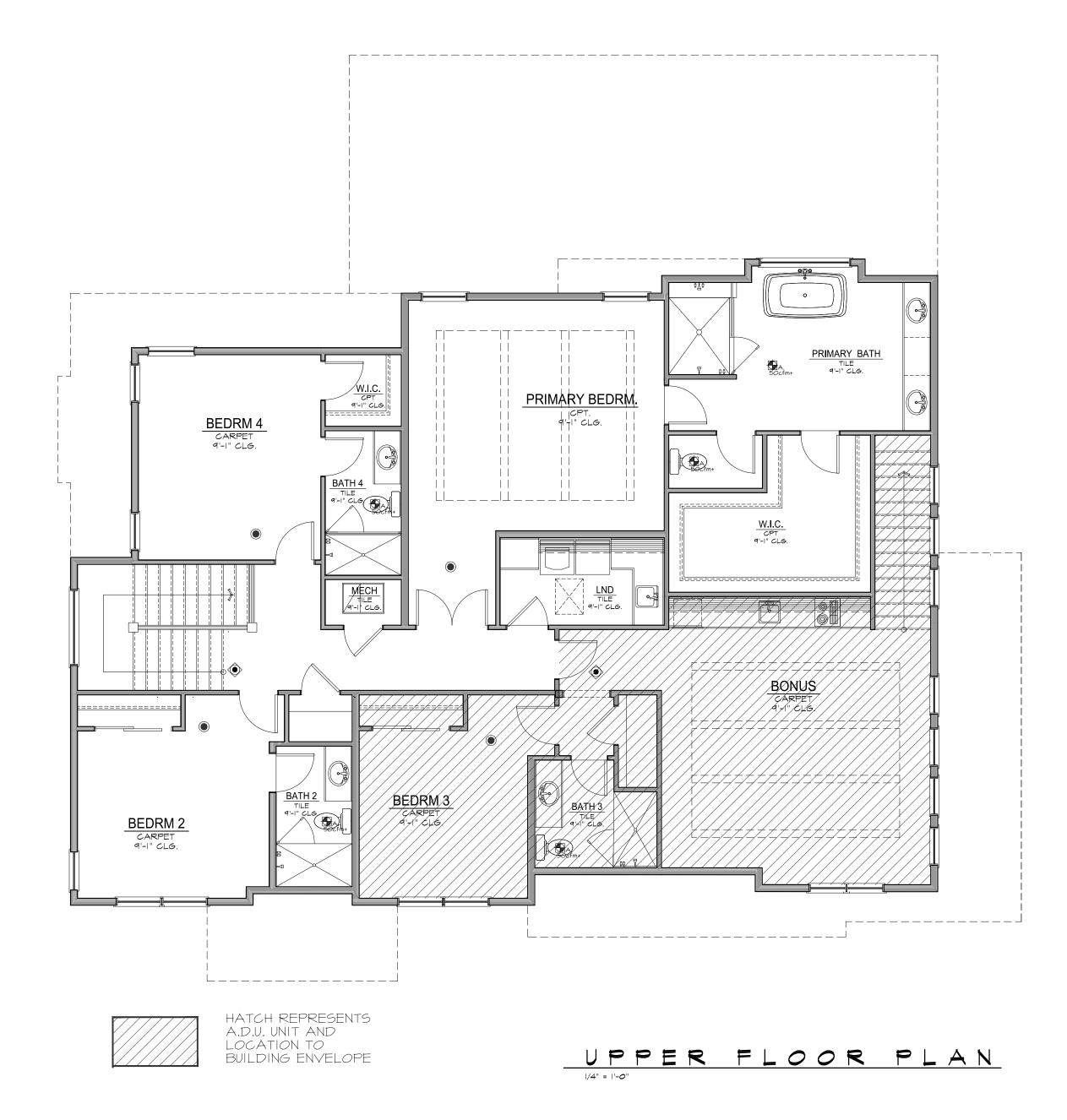
graphically or in writing or which conflict with the 2015 International

ı plan number: --

mark sys. number:--

See Sheet "CODES" for additional Zoning required Area 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.

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 PROPOSED
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 TOTAL NET AREA MAIN HOUSE
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 572 S.F.

 COV'D PORCH
 68 S.F.

 OVERALL WIDTH
 62'-6 I/4"

 OVERALL DEPTH
 44'-1 1/2"

Updated: 03/09/2018

Method for Calculating Square Footage - ANSI ZT65-2013 except: no separate distinction of 'above-grade or below-grade' areas and each level is measured to the outside of stude 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 Date By
Description	on
<u> </u>	
·	

# 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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Sub	mittal	Date	

#### Sheet Title/Description

Design Firm

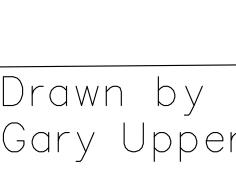
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Checked by: (48)

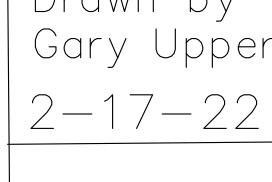
Primary Scale

**A1.1** of: .28

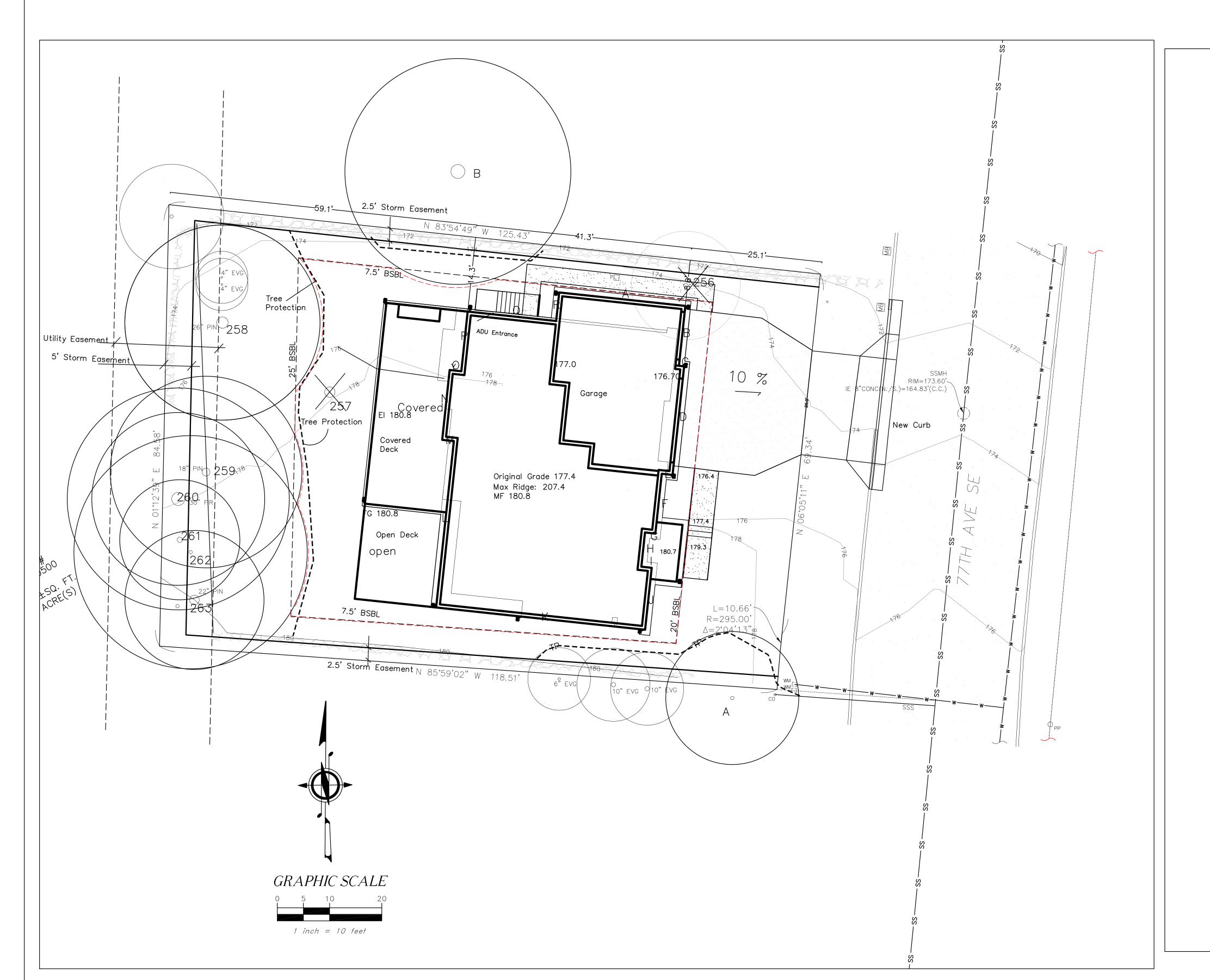


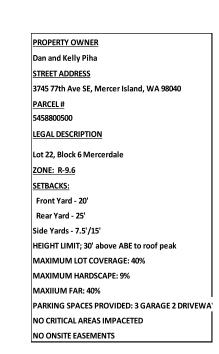












PARKING

Driveway 3 ea.

	Lot Area	10,016
	Allowed	409
	Allowed sf	4,006
Ne	w	
	Eave Area	3,310
	Driveway	655
	New sf	3,965
	Existing	2,178
	Existing Removed	(2,178
	Net Existing	-
Tot	al	•
	<b>Total New and Existing</b>	3,965
		39.6%

HEIGHT TABLE

C 2 175.0

E 2 175.1

G 2 179.5

M 2 179.7

O 2 175.1

TOTALS 219

Rockery/Retaining Walls

Existing Removed

Net Existing Retained

Total New and Existing

Total Hardscape

ID Length El x

A 24.5 175.2 4,292.4

B 11.5 175.0 2,012.5

D 21 174.9 3,672.9

F 11.5 175.1 2,013.7

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

N 13.5 179.0 2,416.5

P 11.5 175.0 2,012.5

Q 17 174.7 2,969.9

R 5.5 174.7 960.9

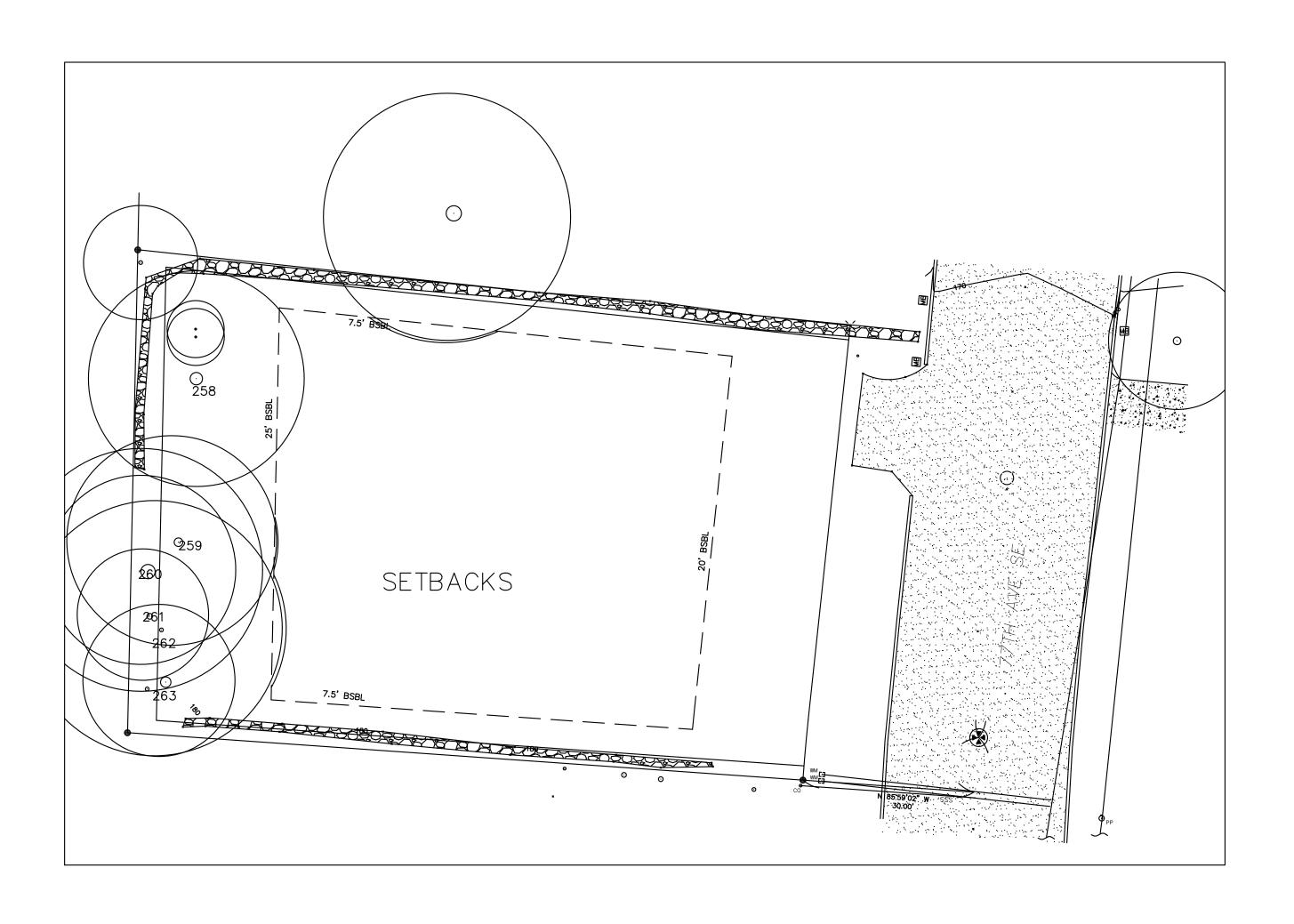
38,838.5

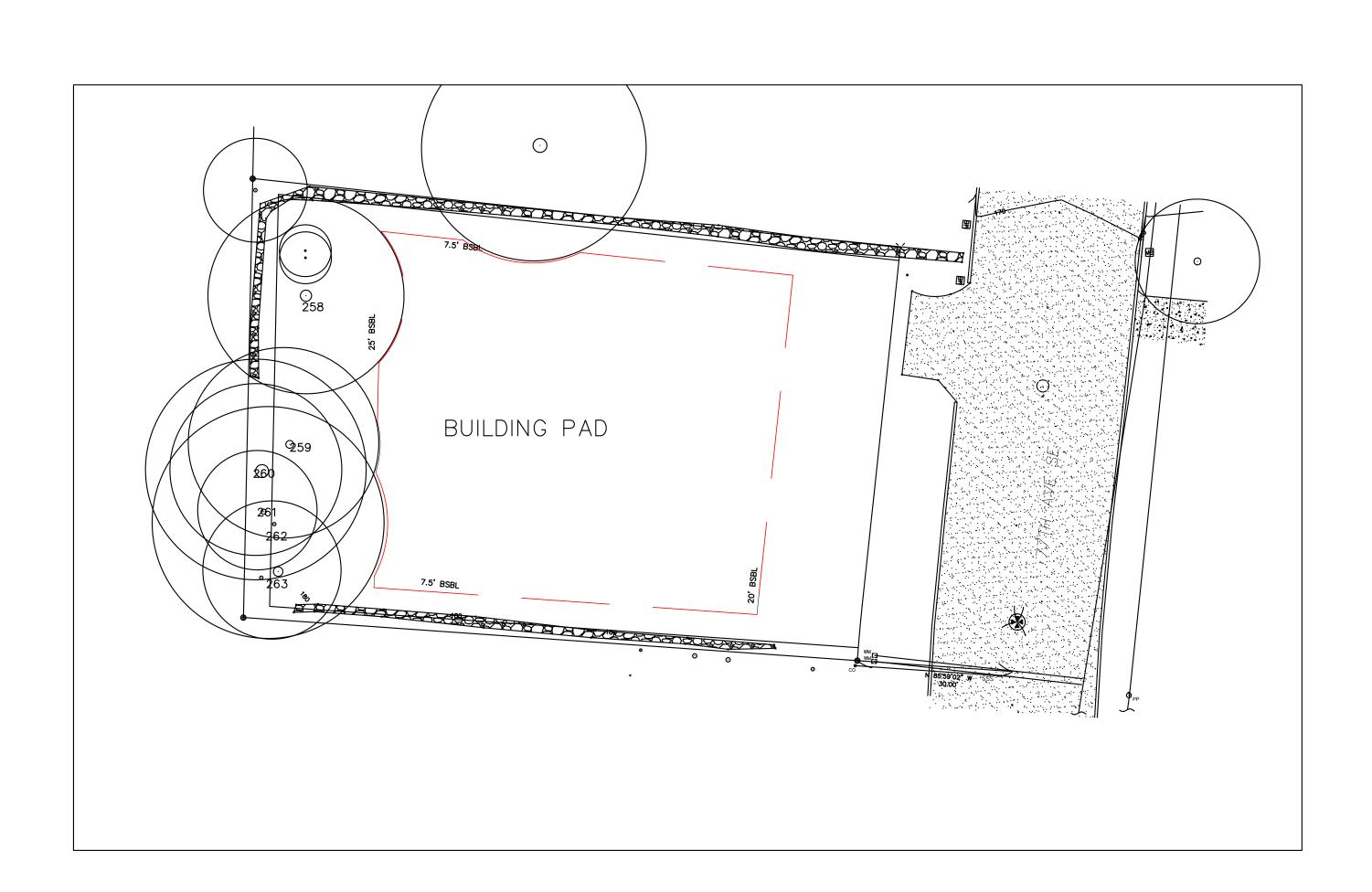
Average 177.4

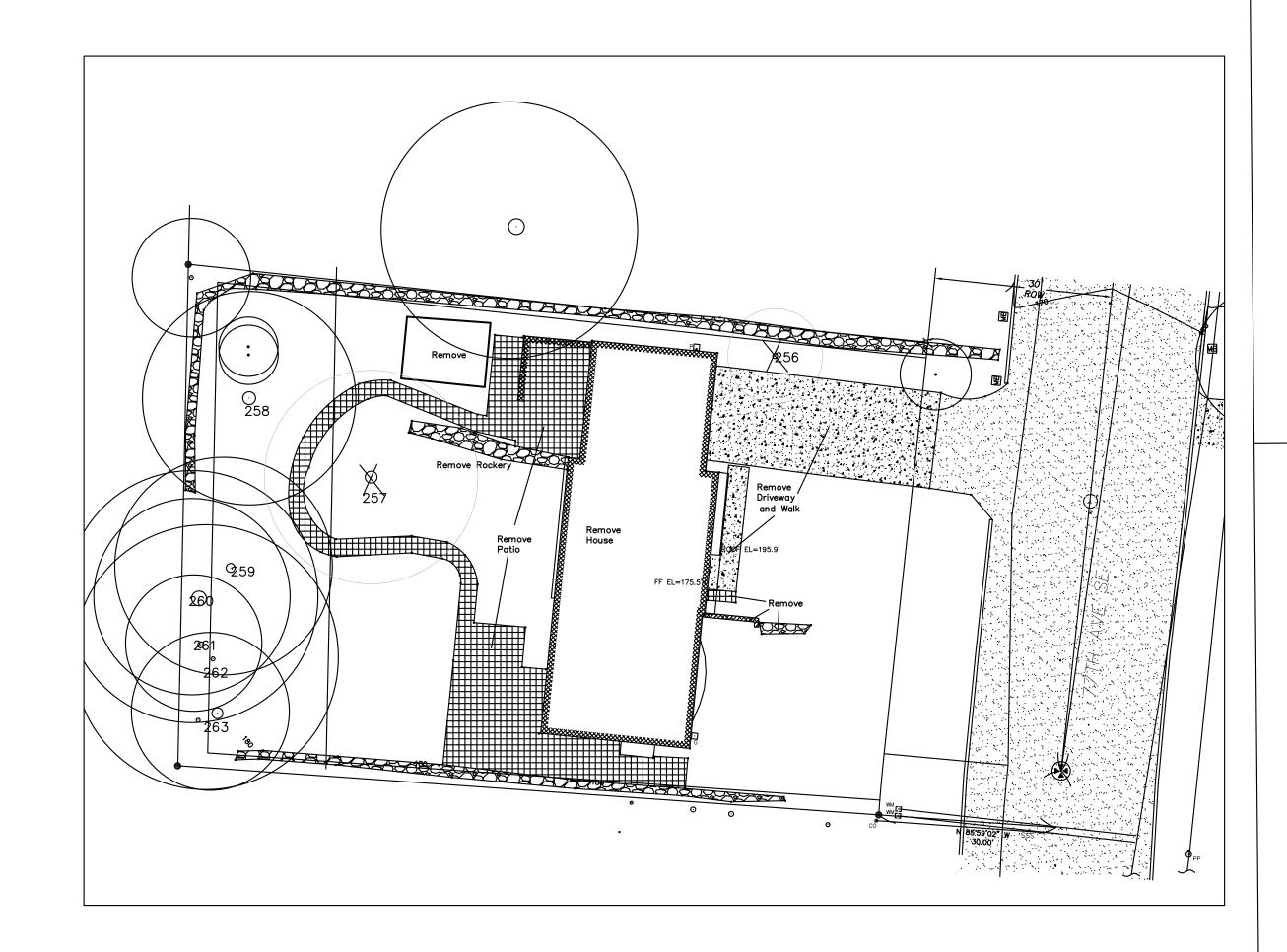
L							
REE TABL							
ONSITE							
ID	NAME	DSH	DRIPLINE	Exceptiona	Above 24"	Save	Remo
256	Japanese Maple	16.5	10.7	size			16.5
257	Common Buckthorn	27	17.6		yes		27
258	Austrian Black Pine	26.1	18	size	yes	26.1	
259	Austrian Black Pine	17.1	17		no	17.1	
260	Doug-Fir	30.5	20	size	yes	30.5	
261	Common 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							
Α	Japanese Maple	10	12.4				
	Western catalpa	31.9	20.3	1			

ONSITE	_						
ID	NAME	DSH	DRIPLINE	Exceptiona	Above 24"	Save	Remo
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							
Α	Japanese Maple	10	12.4				
В	Western catalpa	31.9	20.3				

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





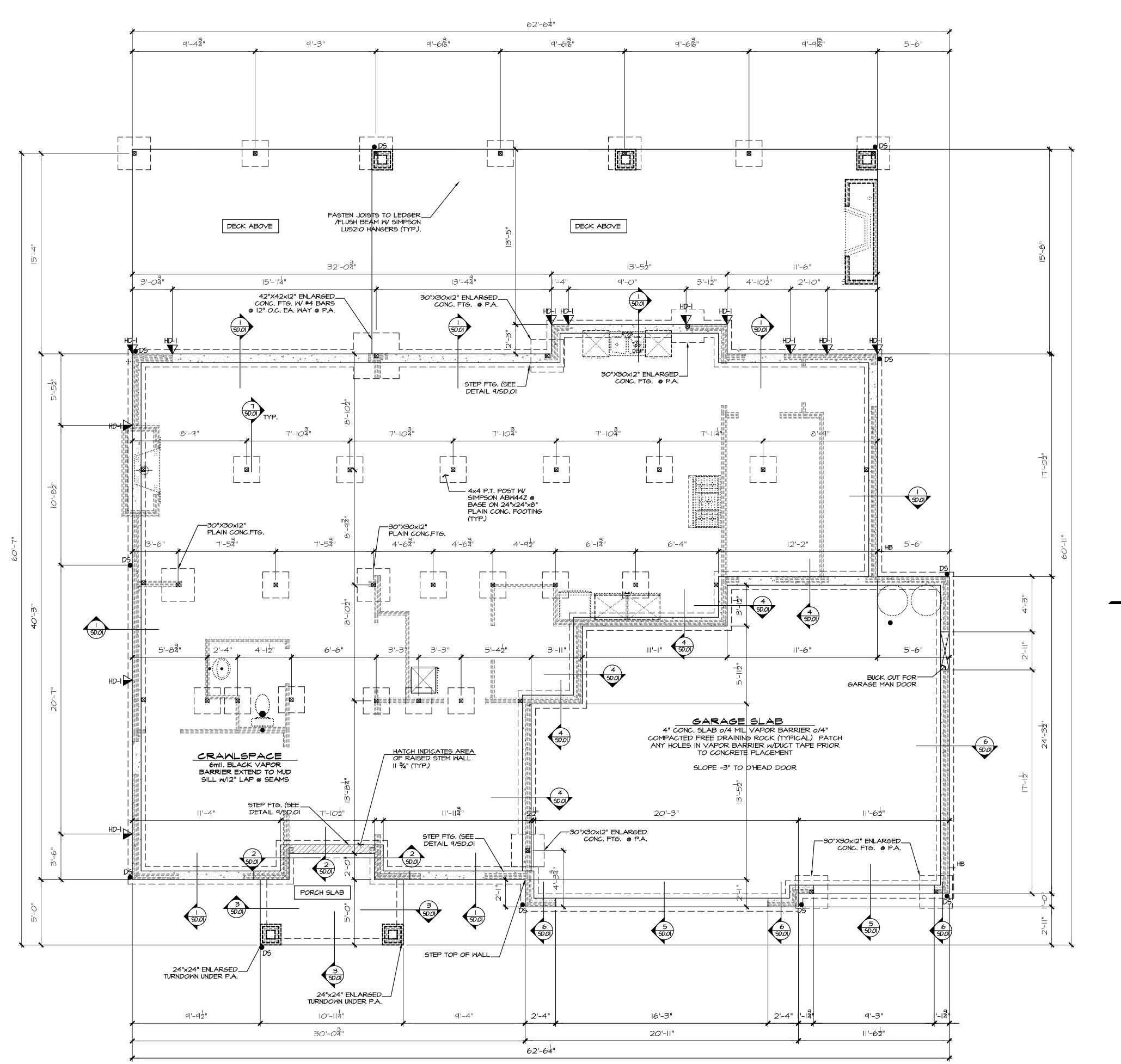


JayMarc Homes, LLC 7525 SE 24th St, #487 Mercer Island, WA 98040 425 281 2706

SITE PLAN
PIHA RESIDENCE
3745 77th Ave SF

Drawn by Gary Upper 2-17-22

A



HOLD-DOWN SCHEDULE

SYMBOL SPECIFICATION

HD-I SIMPSON STHDI4 (RJ)
HOLD-DOWN

SIMPSON CSI6
HD-5 STRAP TIE (I4" END
LENGTH)

SIMPSON MSTC40
STRAP TIE (I2" END
LENGTH)

SIMPSON MSTC66
HD-7 STRAP TIE (24" END
LENGTH)

#### LEGEND

JL METAL HANGER

\* INDICATES POST ABOVE. PROVIDE SOLID
BLOCKING UNDER POST OR JAMB ABOVE.
INDICATES HOLDOWN.

#### 4×10 DROPPED CONT. BEAM (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/O.I3I"xI-I/2" LONG REDHEAD NAILS
(4'-O" MAX. POST HEIGHT) ON ASPHALT
SHINGLE ON 24"x24"x8" PLAIN CONC. FTG.
(TYP. U.N.O.)

REFER TO S-O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES



FOUNDATION PLAN



425.266.9100

Description

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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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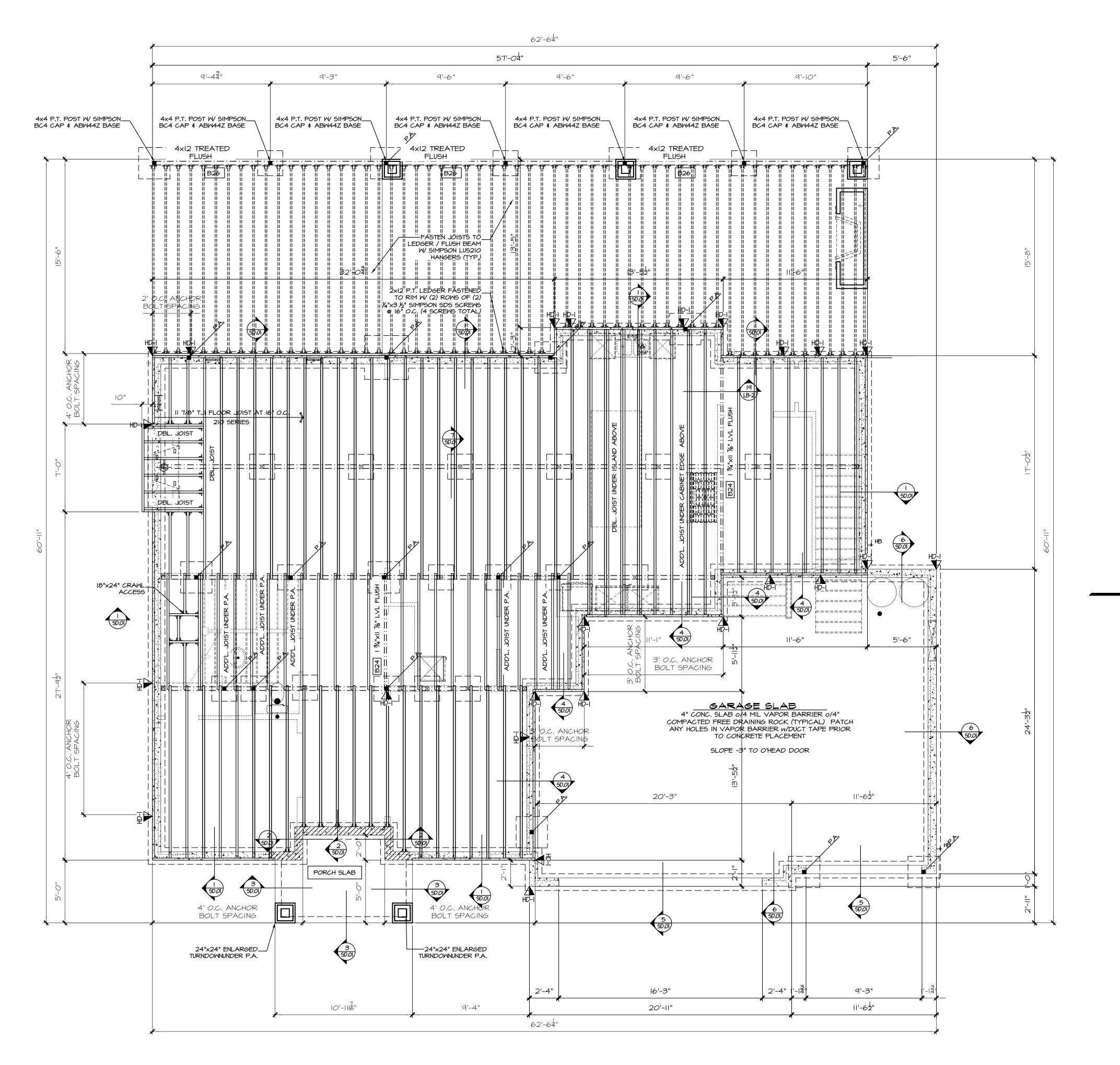
. Design Firm

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**⊥**A3



#### NOTES:

#### HOLD-DOWN SCHEDULE SPECIFICATION SIMPSON STHD14 (RJ) HOLD-DOWN SIMPSON CSI6 HD-5 STRAP TIE (14" END LENGTH) SIMPSON MSTC40 HD-6 STRAP TIE (12" END LENGTH) SIMPSON MSTC66 HD-7 STRAP TIE (24" END LENGTH)

LEGEND JL METAL HANGER \* INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE. INDICATES HOLDOWN.

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

REFER TO S-O FOR TYPICAL STRUCTURAL NOTES \$ SCHEDULES

> 4×10 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/O.131"x1-1/2" LONG REDHEAD NAILS (4'-0" MAX. POST HEIGHT) ON ASPHALT SHINGLE ON 24"x24"x8" PLAIN CONC. FTG. (TYP. U.N.O.)

**FOUNDATION VENTILATION** 1783 s.f. / 300 = 855.84 s.i. Req'd Ventilation Required: 14" x 7" Foundation Vents 98 s.i. - 25% reduct.,1/4"mesh = 73.5 s.i. Vent Area = Vents Required = 855.84 s.i. / Vent Area = 11.64 s.i. Provide: 12 14" x 7" Vents, Area = 882 s.i. 882.00 s.i. is Greater than 855.84 s.i. Req'd 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



425.266.9100

Description

SIDENCE th Ave SE PIHA  $\infty$ 

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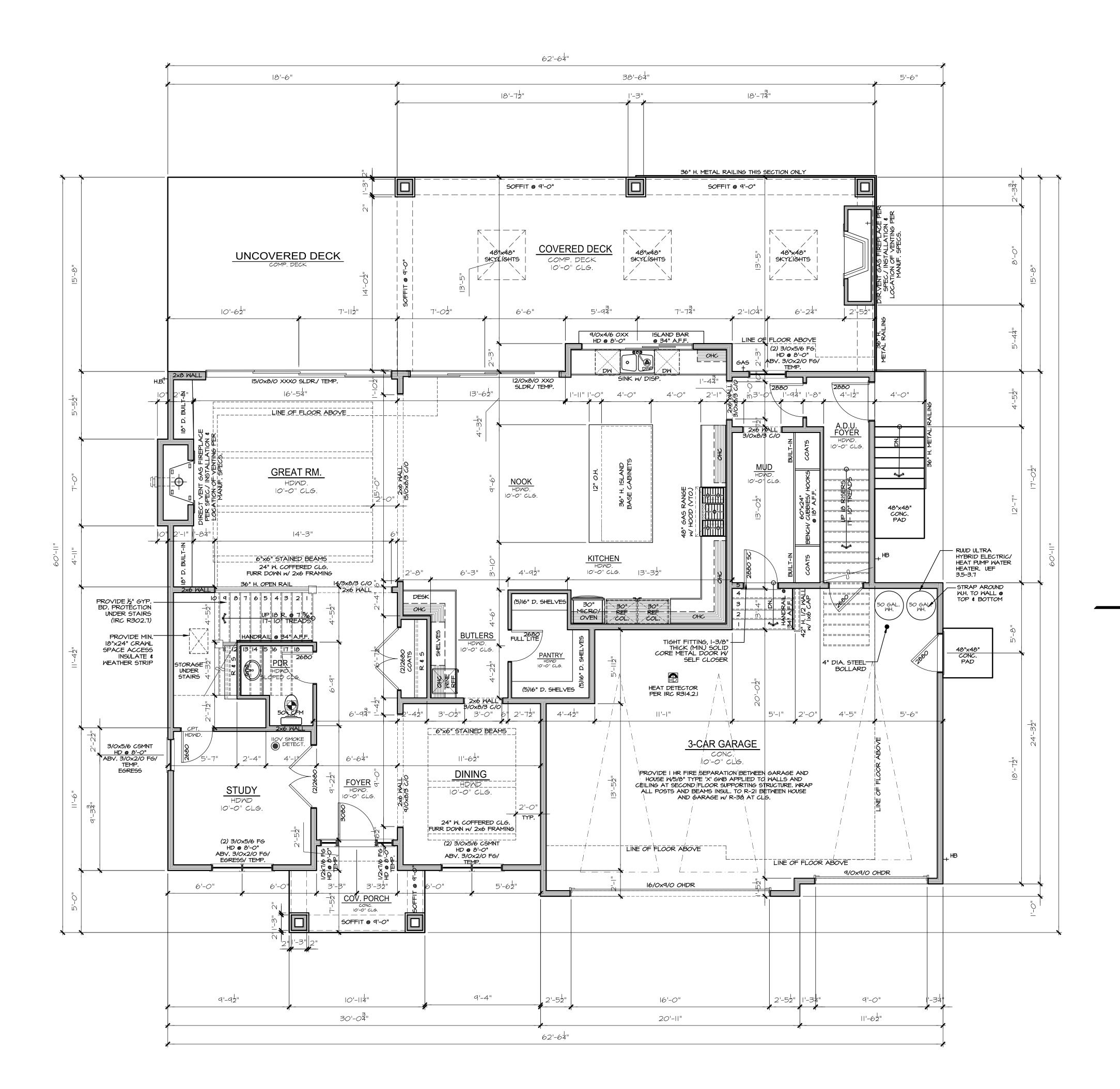
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#### MAIN FLOOR PLAN NOTES

PLAN SPECIFIC 2018 MSEC. SECTION RO6 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 1,501sf to 4,999sf HOME. CREDITS PROVIDED IN THIS HOME AS FOLLOWS:

EFFICIENT BUILDING ENVELOPE OPT. 1.3: O.5 CREDITS PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.I.I with FOLLOWING MODIFICATIONS:

VERTICAL FENESTRATION 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 MI507.3 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 EMC MOTOR ARE ALLOWED, PROVIDED THAT THEY ARE CONTROLLED TO OPERATE AT LOW SPEED IN THE VENTILATION ONLY

#### HIGH EFFICIENCY HVAC EQUIPMENT OPT. 3.5a: I.5 CREDITS

AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MINIMUM HSPF OF II.O. 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 EFFICENCY HVAC DISTRIBUTION OPT. 4.2: I.O CREDITS HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEMS(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

WHOLE HOUSE VENTILATION

PROVIDE WHOLE HOUSE VENTILATION per 2018 IRC. R403.8 and IMC MI507 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 OUTDIDE)

BATH & Min. 50cfm. INTERMITTENT at .025mg per TABLE MI507.4

KITCHEN Min. 100cfm. INTERMITTENT at .025mg per TBL. MI507.4 RANGE HOOD or DOWN DRAFT EXHAUST FAN RATED at min. 100cfm. at

JONG MAY BE USED FOR EXHAUST FAN REQMT. EXHAUST HOODS IN XCESS OF 400cfm. SHALL BE INTERLOCKED AND PROVIDE MAKE UP AIR per w/MI503.4

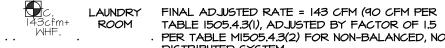


TABLE 1505.4.3(1). ADJUSTED BY FACTOR OF 1.5 ROOM PER TABLE MI505.4.3(2) FOR NON-BALANCED, NOT DISTRIBUTED SYSTEM.

PER IRC MI505.4.I.I, WHOLE HOUSE VENTILATION FANS MUST BE RATED FOR SOUND AT A MAXIMUM OF I.O SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF O.I IN W.C. STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN IRC MI505.4.I.2 AND MI505.4.I.3.



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

### MAIN FLOOR PLAN

#### F.A.R. CALCULATIONS:

SQUARE FOOTAGE SUMMARY

MAIN FLOOR/ MAIN LIVING MAIN FLOOR A.D.U. GARAGE SUB TOTAL	1,700 S.F. 83 S.F. 712 S.F. 2,495 S.F.
UPPER FLOOR/ MAIN LIVING UPPER FLOOR A.D.U. MINUS A.D.U. STAIRS MINUS MAIN STAIRS	1,459 S.F. 687 S.F. -53 S.F. -92 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A. ALLOWABLE F.A.R. 45% PROPOSED	4,496 S.F. 4,507 S.F. 44.3%
TOTAL NET AREA MAIN HOUSE GARAGE TOTAL NET A.D.U.	1,783 S.F. 712 S.F. 740 S.F.
SUB TOTAL	3,235 S.F.
COV'D PATIO COV'D PORCH	572 S.F. 68 S.F.
OVERALL WIDTH OVERALL DEPTH Updated: 03/09/2018	62'-6 1/4" 44' -1 1/2"

Method for Calculating Square Footage - ANSI Z765-2013 except: no separate distinction of 'above-grade or below-grade' areas <u>and</u> 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



Mercer Island, WA 98040

425.266.9100

/\ Issue Issue Date By Description

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

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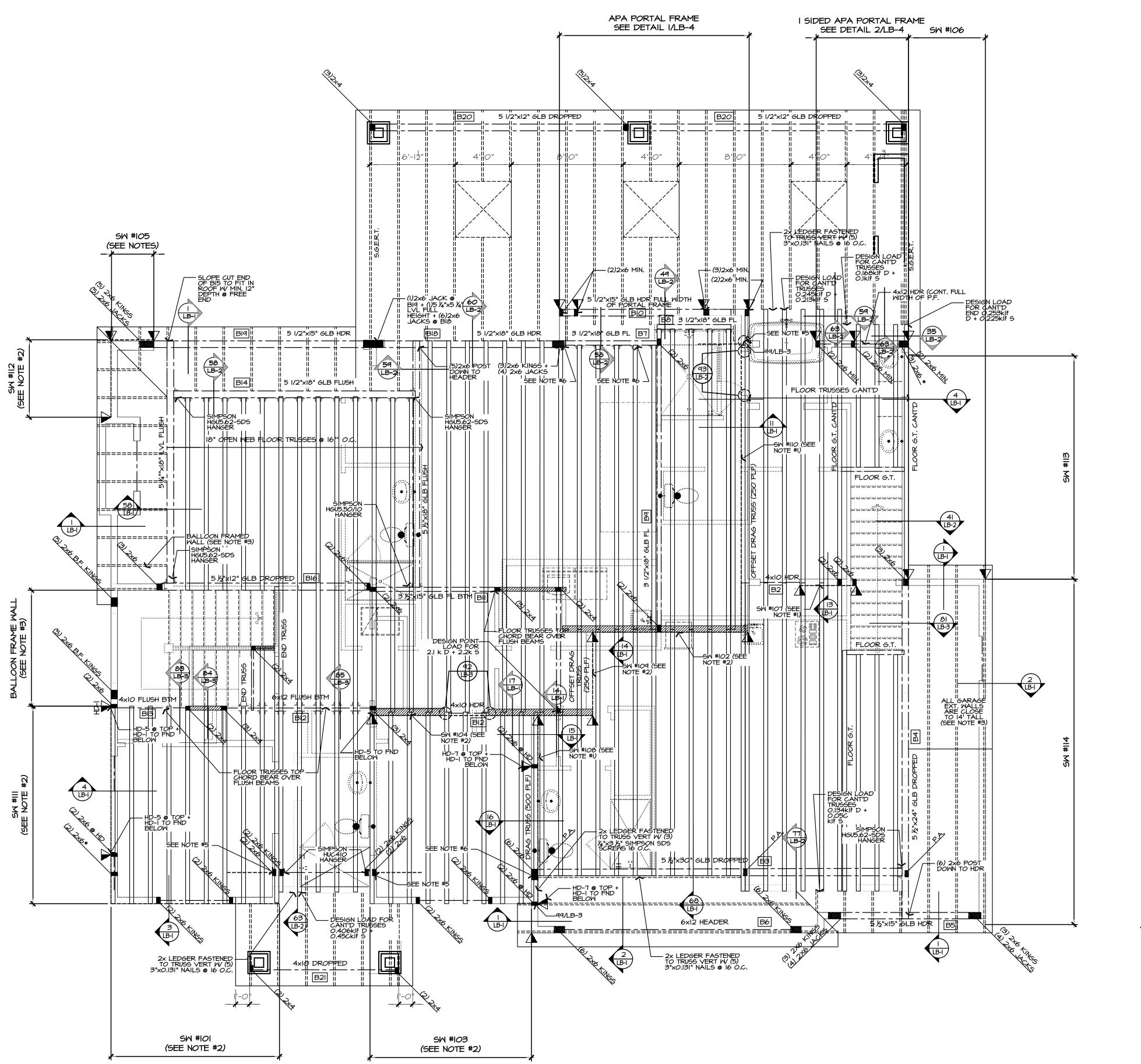
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1/4"=1'-0" (48) Primary Scale



NOTE #1 PROVIDE 16" OSB OR PLYWOOD FASTENED PER TYPICAL EXTERIOR WALL SHEATHING SPEC. (SEE NOTES ON S-0.0

NOTE #2 PROVIDE 1/6" OSB OR PLYWOOD FASTENED 3" O.C. EDGE NAILING SPEC. (SEE NOTES ON S-O.O

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

NOTE #5
PROVIDE SIMPSON CSI6 STRAP FROM DBL TOP
PLATE (13" END LENGTH) TO BOTTOM OF FULL
HEIGHT TRUSS BLOCKING BETWEEN FLOOR TRUSSES
(3'-O" MIN.) FASTEN FLOOR SHTG TO BLOCKING W 2
½"x0.131" NAILS @ 6" O.C.

NOTE #6 PROVIDE SIMPSON CSI6 STRAP FROM DBL TOP PLATE TO BOTTOM OF FLUSH BEAM (13" LENGTH @ EACH END.

UPPER FLOOR / MAIN FLOOR ROOF FRAMING LAYOUT



\( \lambda \) Issue Issue Date By Description

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

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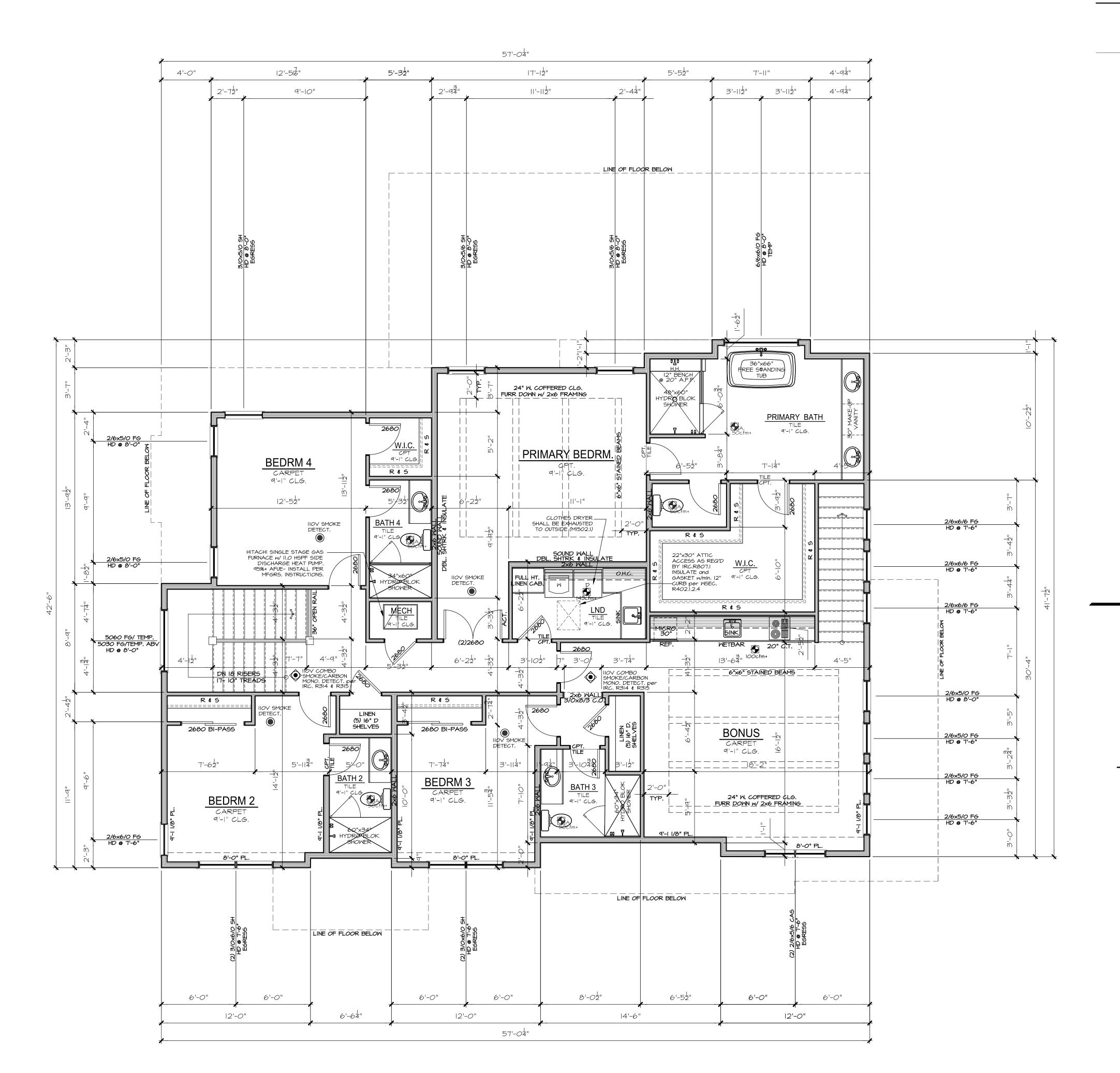
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#### UPPER FLOOR PLAN NOTES

PLAN SPECIFIC 2018 MSEC. SECTION RO6

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 1,501sf to 4,999sf HOME.

CREDITS PROVIDED IN THIS HOME AS FOLLOWS:

EFFICIENT BUILDING ENVELOPE OPT. 1.3: O.5 CREDITS

PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 with FOLLOWING MODIFICATIONS:

VERTICAL FENESTRATION 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 MISO7.3 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 EMC 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 II.O. 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 EFFICENCY HVAC DISTRIBUTION OPT. 4.2: I.O CREDITS

HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEMS(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

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SYMBOL LOCATION MIN. FAN REQUIREMENTS (ALL FANS VENT TO OUTDIDE)

BATH & Min. 50cfm. INTERMITTENT at .025mg per TABLE MI507.4

KITCHEN Min. 100cfm. INTERMITTENT at .025mg per TBL. MI507.4

RANGE HOOD or DOWN DRAFT EXHAUST FAN RATED at min. 100cfm. at 0.10mg May Be used for exhaust fan reamt. Exhaust hoods in excess of 400cfm. Shall be interlocked and provide Make up air

LAUNDRY FINAL ADJUSTED RATE = 143 CFM (90 CFM PER 143 cfm | ROOM TABLE 1505.4.3(1), ADJUSTED BY FACTOR OF 1.5
PER TABLE MI505.4.3(2) FOR NON-BALANCED, NO

TABLE 1505.4.3(1), ADJUSTED BY FACTOR OF 1.5

PER TABLE MI505.4.3(2) FOR NON-BALANCED, NOT DISTRIBUTED SYSTEM.



PER IRC MI505.4.I.I, WHOLE HOUSE VENTILATION FANS MUST BE RATED FOR SOUND AT A MAXIMUM OF I.O SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF O.I IN W.C. STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN IRC MI505.4.I.2 AND MI505.4.I.3.

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

## UPPER FLOOR PLAN

#### SQUARE FOOTAGE SUMMARY

MAIN FLOOR/ MAIN LIVING MAIN FLOOR A.D.U. GARAGE	1,700 S.F. 83 S.F. 712 S.F.
SUB TOTAL	2,495 S.F.
UPPER FLOOR/ MAIN LIVING UPPER FLOOR A.D.U. MINUS A.D.U. STAIRS MINUS MAIN STAIRS	1,459 S.F. 687 S.F. -53 S.F. -92 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A. ALLOWABLE F.A.R. 45% PROPOSED	4,496 S.F. 4,507 S.F. 44.3%
TOTAL NET AREA MAIN HOUSE GARAGE TOTAL NET A.D.U.	1,783 S.F. 712 S.F. 740 S.F.
SUB TOTAL	3,235 S.F.
COV'D PATIO COV'D PORCH	572 S.F. 68 S.F.
OVERALL WIDTH OVERALL DEPTH Updated: 03/09/2018	62'-6 1/4" 44' -1 1/2"

Method for Calculating Square Footage - ANSI Z765-2013 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 H O M E S

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

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PIHA RESIDENCE 3745 77th Ave SE ERCER ISLAND, WA

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

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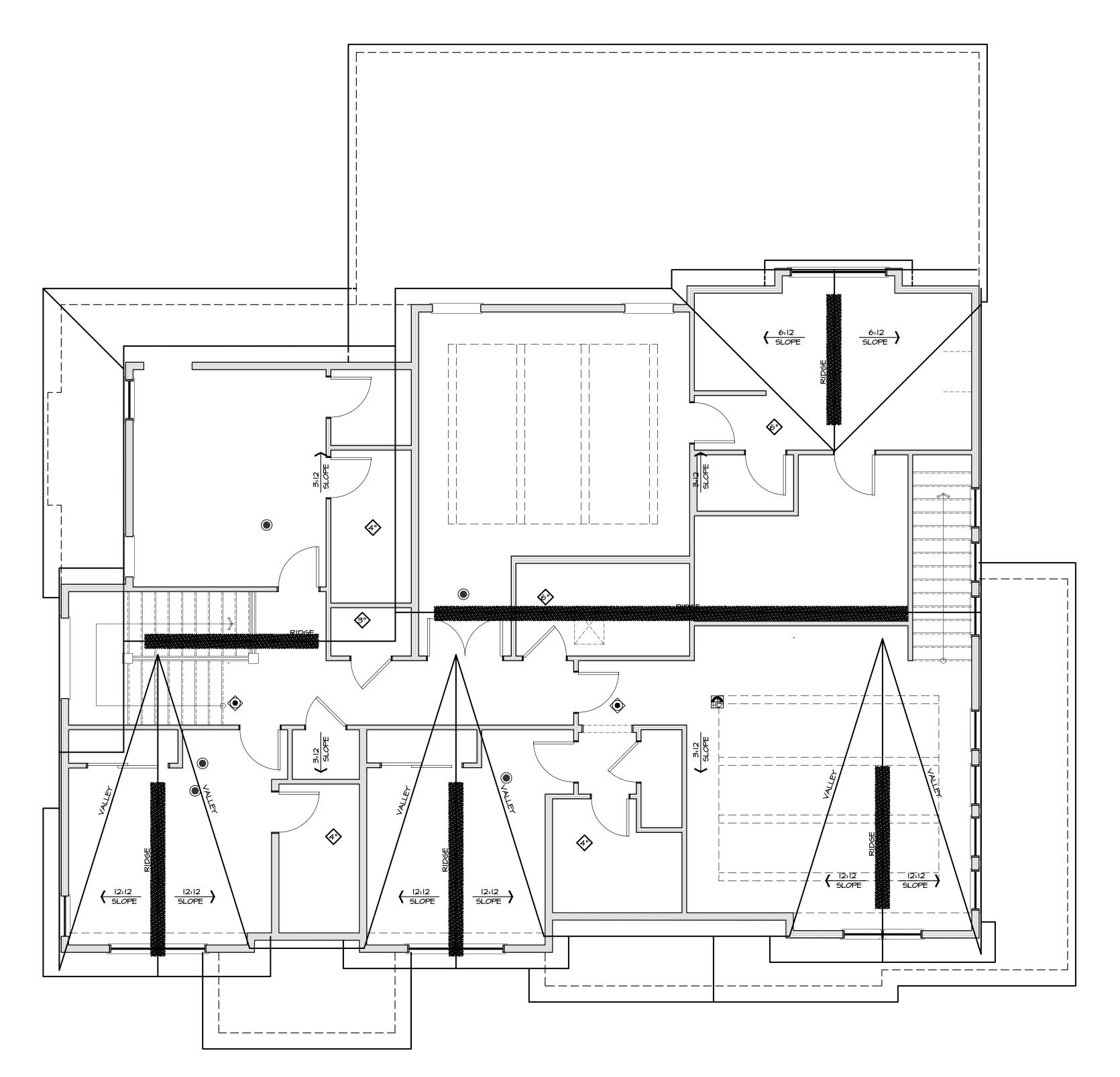
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ROOF PLAN

Standard Truss / Scissor Truss Roof F	raming Assembly:	ZONE 1
Roof Area :	<b>2446</b> 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 the highest point of the space. Remainded	required ventilation no more than 3 ft below the required ventalled at eave vents.	ne ridge or
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:	<b>30</b> I.f. ridge vent. Ventilation =	540.00 s.i.
Ventilation area remainder for AF50 vent	s = 47.04 s.i.	
Upper Roof Ventilation: as needed to ach	nive 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:	<b>0</b> -10"x7" roof jacks. Ventilation =	0.00 s.i.
Eave Ventilation:		
Birdblocking: (3)2" dia holes per bay =	4.71 s.i. / I.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





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

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

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

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PIHA RESIDENCE 3745 77th Ave SE

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PIHA RESIDENCE 3745 77th Ave SE

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

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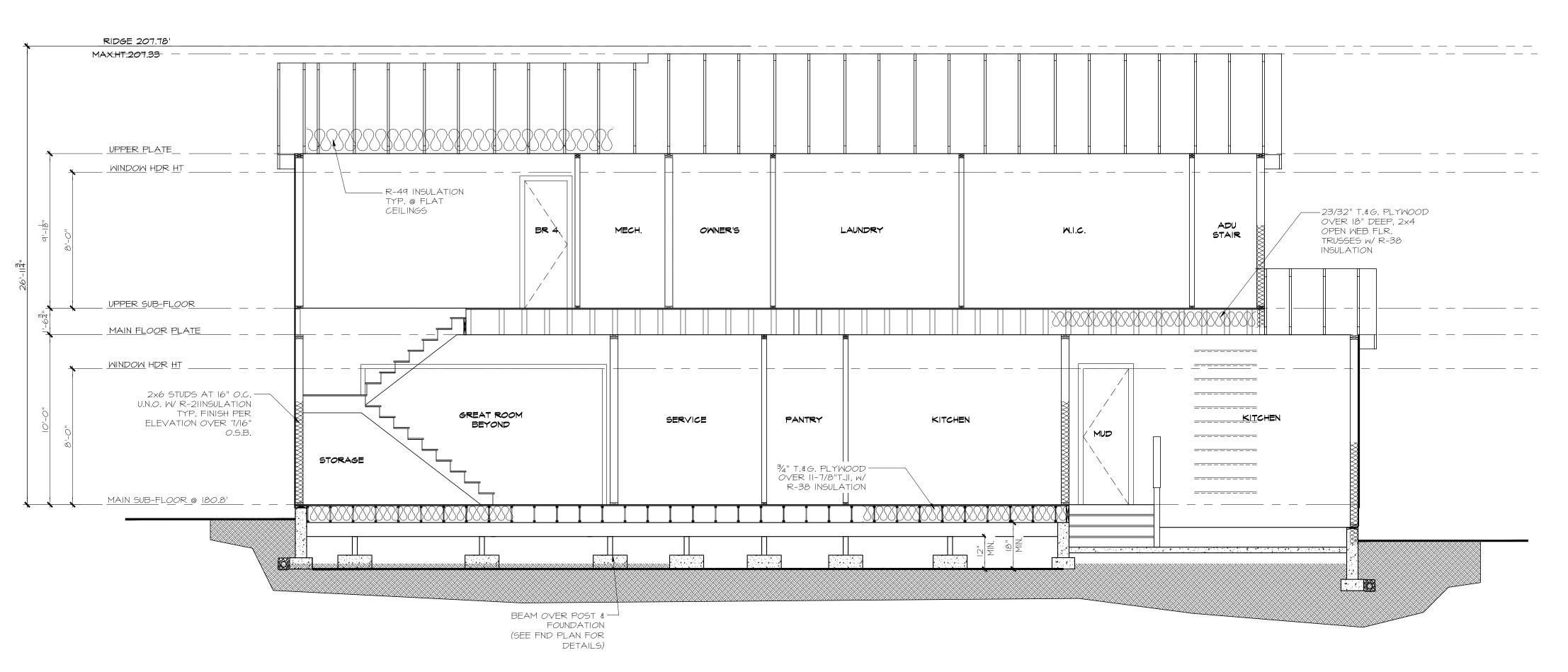
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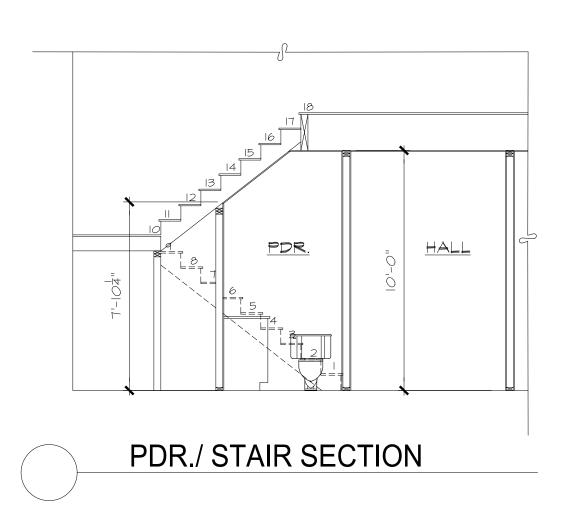
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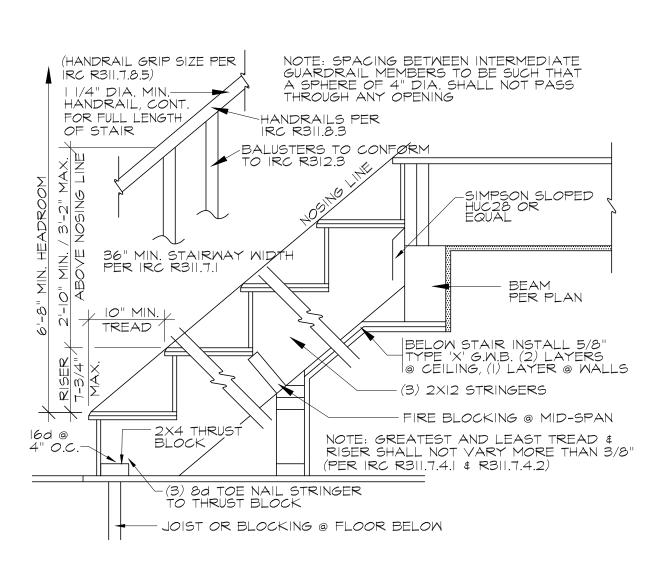
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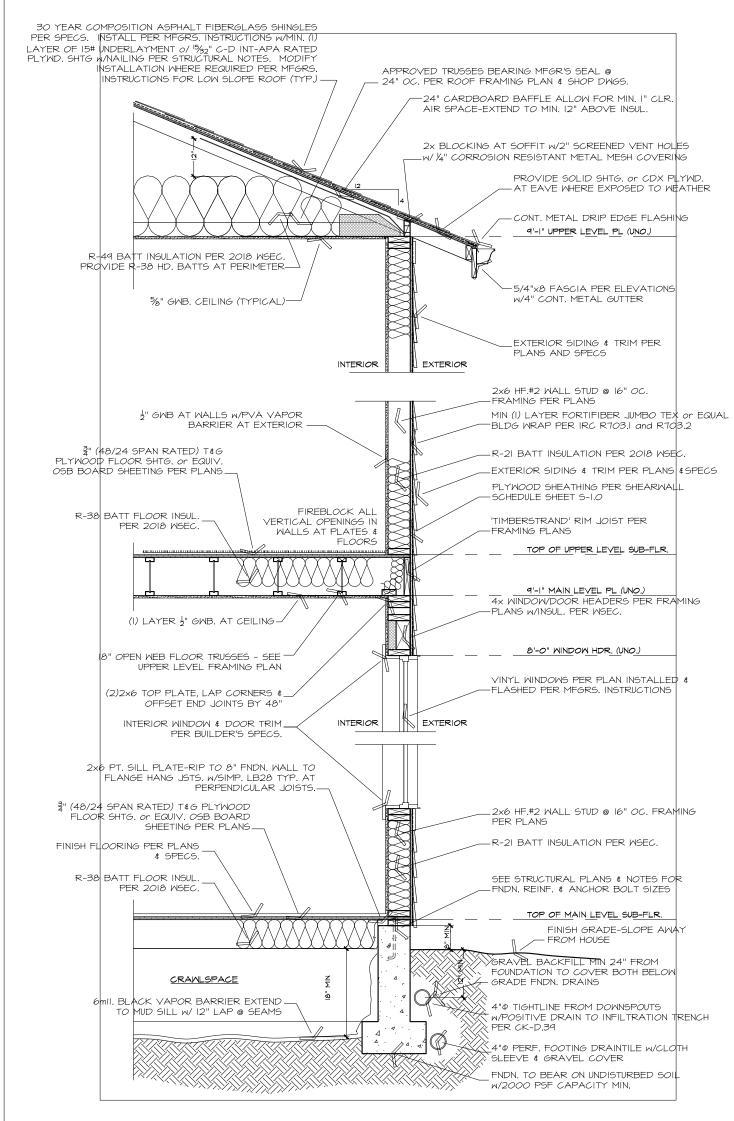


## BUILDING SECTION 14" = 1'-0"





TYP. STAIR SECTION



TYPICAL EXTERIOR WALL SECTION



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DENCE Ave SE ID, WA.

PIHA RE 3745 771 MERCER ISL

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

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of: .28

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#### 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, U.N.O.:

f'c = 2,500 psi: ....... FOUNDATION WALLS\*

2,500 psi: ....... FOOTINGS\*

2,500 psi: ....... INTERIOR SLABS ON GRADE

3,500 psi: ...... GARAGE & EXT. SLABS ON GRADE

fy = 60,000 psi

\* UTILIZE 5½" 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.
- THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.

   FOUNDATION WALL DESIGN IS BASED ON BACKFILL SOIL
- CLASSIFICATIONS OF SC, 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 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. (15'-0" O.C.)
- FASTEN SILL PLATES TO FOUNDATION WALLS WITH 5%" DIA. ANCHOR BOLTS W/ MIN. 3"x3"x ¼" PLATE WASHERS (EDGE OF WASHER TO BE LOCATED WITHIN ½" 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, I2" MAXIMUM FROM PLATE ENDS, U.N.O. (SEE FND. 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-I SIMPSON STHDI4 (RJ) HOLD-DOWN

HD-5 SIMPSON CSI6 STRAP TIE (14" END LENGTH)

SIMPSON MSTC40 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.)

HD-7 SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.)

#### 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 TO FRANCES.

## ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS 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:

A. ROOF TRUSSES:

- I/4" DEAD LOAD FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
- I/8" DEAD LOAD

  C. FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR
  FRAMING BY OTHERS:

AMING 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:

ROOF TRUSS BOTTOM CHORD

FLOOR (TRUSSES):

FLOOR (JOISTS):

DECK (JOISTS):

TILE FLOORS:

SEISMIC LOAD: (IBC 1613)

LIVE LOAD (PSF):

ROOF:

RESIDENTIAL LIVING AREAS:

RESIDENTIAL SLEEPING AREAS:

RESIDENTIAL WOOD DECKS:

GARAGE:

SNOW LOAD:

GROUND SNOW LOAD (Pg) (PSF):

FLAT ROOF SNOW LOAD (Pt) (PSF):

SNOW EXPOSURE FACTOR (Cg):

SNOW LOAD IMPORTANCE FACTOR (I):

THERMAL FACTOR (Ct):

1.2

LATERAL DESIGN LOADS:

WIND LOAD: (IBC 1609)

SPEED (Vuit) (MPH):

WIND RISK CATEGORY:

IMPORTANCE FACTOR (Iw):

EXPOSURE CATEGORY:

INTERNAL PRESSURE COEFF. (GCp):

TOPOGRAPHIC FACTOR (Kzt):

1.6

SEISMIC RISK CATEGORY: SEISMIC IMPORTANCE FACTOR (I.): MAPPED SPECTRAL RESPONSE: Ss: 1.415 Sı: 0.492 D(DEFAULT) SITE CLASS: SPECTRAL RESPONSE COEFF.: Spi: 0.593 Sps: 1.132 SEISMIC DESIGN CATEGORY: BASIC SEISMIC-FORCE-RESISTING SYS: LIGHT FRAMED WALLS W/WOOD STRUCTURAL PANELS ULTIMATE BASE SHEAR: TRANS: 17 K SEISMIC RESPONSE COEFF. (Cs):

## TRANS: 0.174 LONG: 0.174 RESPONSE MODIFICATION FACTOR (R): TRANS: 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.

IIO 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 FORCE 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)

• 76" OSB OR 15/32" PLYWOOD:

FASTEN SHEATHING w/ 2½"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 U.N.O. ON
PLANS.

#### 3" O.C. EDGE NAILING (WHERE NOTED ON PLANS)

• 76" OSB OR 15/32" PLYWOOD:

ONLY AT LOCATIONS INDICATED ON PLANS - SHEATHE WALL
SHOWN WITH 76" OSB. FASTEN SHEATHING W/ 2½"XO.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.

#### OTFS:

- 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
  (12)3½"X0.135" NAILS AT EACH LAP SPLICE, (6) EACH SIDE C
  JOINT (TYP. U.N.O)
- 3. ALL EXTERIOR WALLS ARE CONTINUOUSLY SHEATHED.
- 4. ALL INTERIOR SHEAR WALLS AND EXTERIOR WALLS ARE SHEATHED ABOVE AND BELOW OPENINGS.

#### LEGEND

- [] INTERIOR BEARING WALL
- ==== BEARING WALL ABOVE (B.W.A.), OR SHEARWALL
- — -- BEAM / HEADER
- III 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.
- BLOCKING UNDER POST OR JAMB ABOVE.





#### 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.

#### <u>GENERAL FRAMING</u>

- 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, U.N.O.
- 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, U.N.O.
- GRADE LUMBER, OR BETTER, U.N.O.

   ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED
- WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX.)

   ALL WALLS TALLER THEN TYP. PLATE HEIGHT SHALL BE
- CONSIDERED BALLOON FRAMED & SHALL BE CONSTRUCTED FROM FLOOR TO UNDERSIDE OF FRAMING AT NEXT LEVEL. B.F. 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, U.N.O..

   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 CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- FASTEN ALL BEAMS TO COLUMNS, OR FLUSH BEAMS TO SUPPORTING BEAMS, w/ (4) 3"x0.131" TOENAILS (MIN.), TYP. U.N.O.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS &
  HOLD-DOWNS CONTINUOUS TO FOUNDATION/BEARING. BLOCKING TO
  MATCH POST ABOVE.

PSI; E=1.8x10^6 PSI; DF/DF; 24F-V4 (U.N.O)

- ENGINEERED LUMBER TO MEET OR EXCEED THE FOLLOWING:
  LSL 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; Fb(-)=1850 PSI; Fv=265
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
   LVL MEMBERS Fb=2400 PSI; FcII=2500 PSI; E=I.8xI0^6 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 13/4" 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/P.A.F.s ('HILTI' X-U 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(I) FOR ALL CONNECTIONS, TYP. U.N.O.

#### 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 ASD LEVEL LOADS, U.N.O. (EXCLUDES STONE/MARBLE OR WET 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 DESIGNED TO MEET OR EXCEED L/360 LIVE LOAD DEFLECTION CRITERIA.
- TYPICAL 2x JOIST HANGERS (U.N.O. ON PLANS):
  SINGLE PLY: SIMPSON LUS2IO
  DOUBLES: SIMPSON LUS2IO-2

  FLOOR CUEATURE CHALL BE 23/23 A RA RATED KTURD II

• ALL FLUSH CONNECTIONS SHALL BE CONNECTED WITH HANGER

- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C., EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND 2 ½" × 0.131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD.
- APPROPRIATE FOR MEMBER SIZE. U.N.O.

  FASTEN HANGERS TO SINGLE PLY FLUSH BEAMS W/ 1/2" LONG NAILS.

● FASTEN EACH ROOF TRUSS TO TOP PLATE W/ (4) 3"x0.131"

TOENAILS (MIN.) & (1) 'SIMPSON' SDWC15600 SCREW @ ALL BEARING POINTS. PROVIDE (2) 'SIMPSON' SDWC15600 SCREWS AT 2-PLY GIRDER TRUSSES, (3) 'SIMPSON' SDWC15600 SCREWS AT 3-PLY GIRDER TRUSSES AT ALL BEARING POINTS.

ROOF FRAMING

- FASTEN EACH ROOF RAFTER TO TOP PLATE WITH (I) 'SIMPSON'
   SDWC15600 SCREW. PROVIDE (2) 'SIMPSON' SDWC15600 SCREWS
   AT FLUSH BEAMS IN THE ROOF AT ALL BEARING POINTS.

  PROOF SHEATHING SHALL BE 7/16" A R.A. RATED SHEATHING 24/16
- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBER W/ 2 ½" 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
- 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 WTCA & TPI'S BCSI I-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)
- 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.

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FKULP

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M&K project number:

154-22002 RJZ

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REVISIONS:

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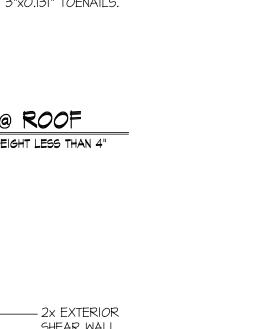
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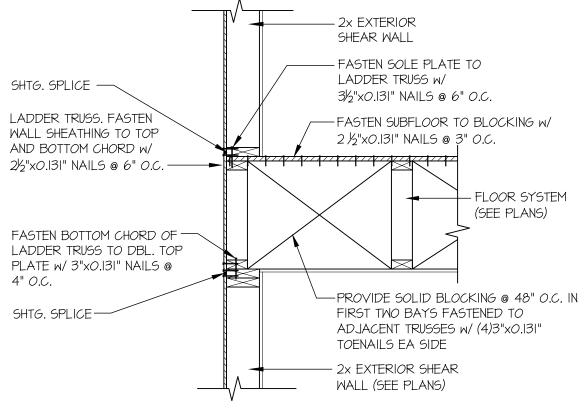
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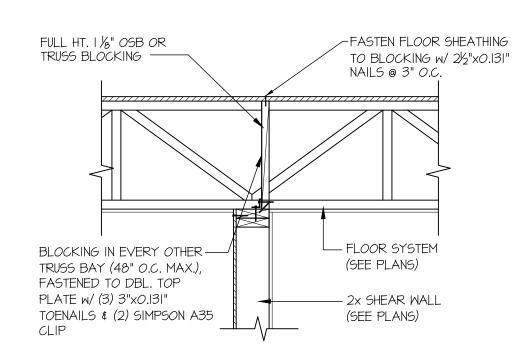
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#### TYPICAL SHEAR TRANSFER DETAIL @ ROOF SCALE: 3/4"=1'-0" HEEL HEIGHT LESS THAN 4"

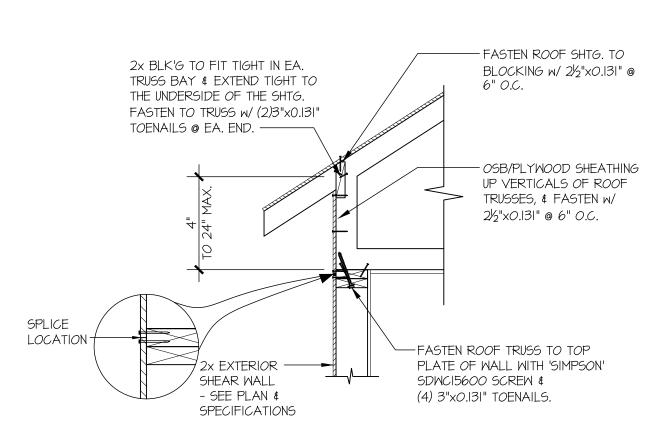




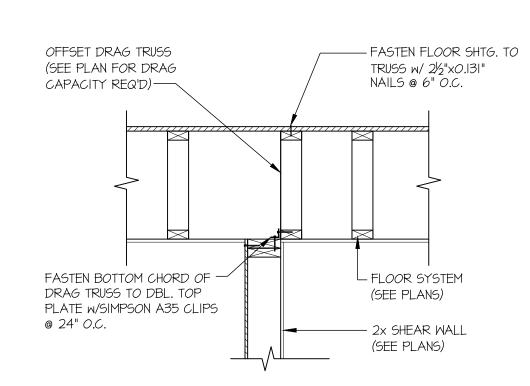
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL SCALE: 3/4"=1'-0"



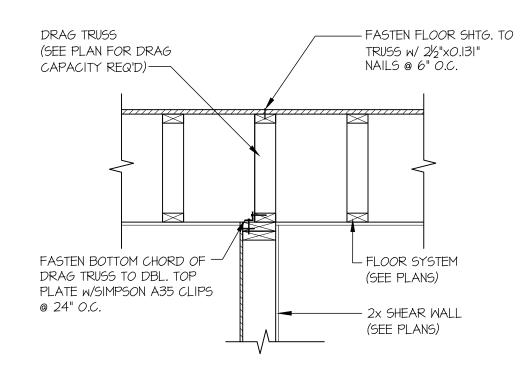
SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW SCALE: 3/4"=1'-0"



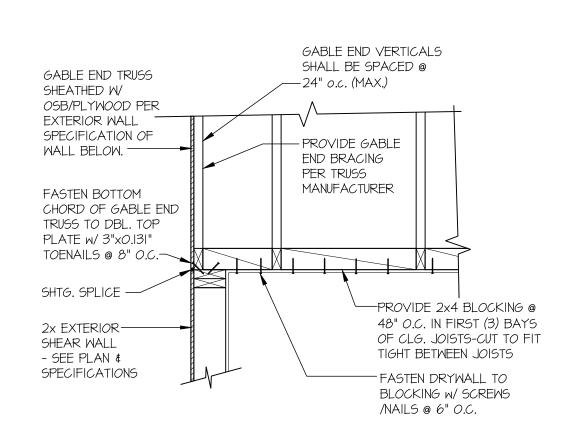
TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS SCALE: 3/4"=1'-0" HEEL HEIGHT UP TO 24" MAX.



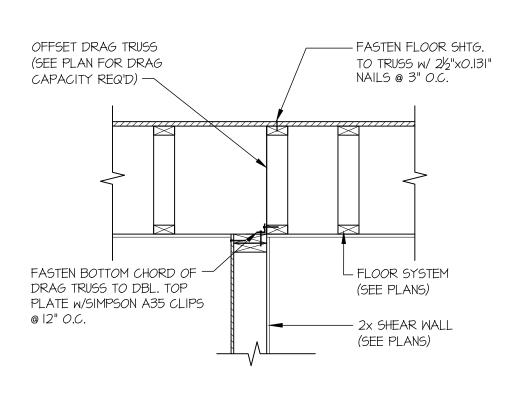
SHEAR TRANSFER DETAIL @ SHEAR MALL BELOW



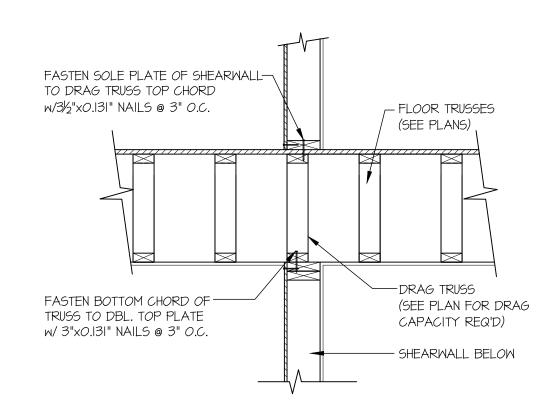
SHEAR TRANSFER DETAIL (15) @ SHEAR WALL BELOW SCALE. 2/4"-11 6" SCALE: 3/4"=1'-0"

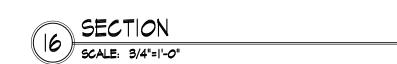


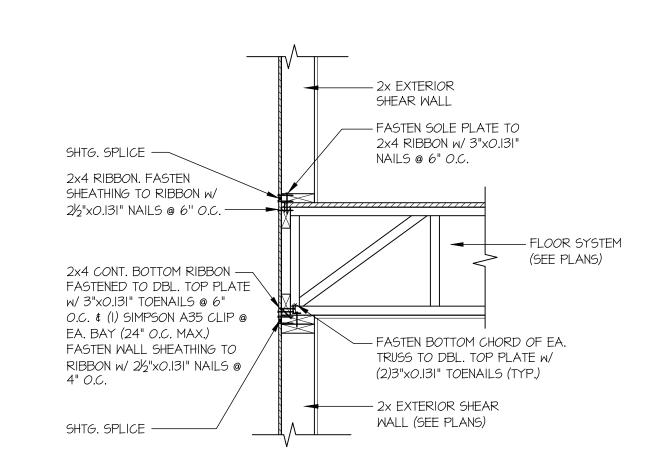




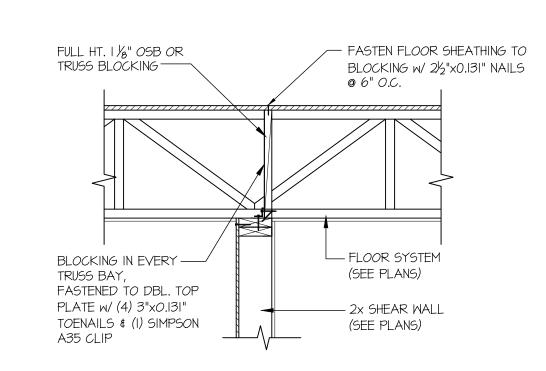
SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW SCALE: 3/4"=1'-0"



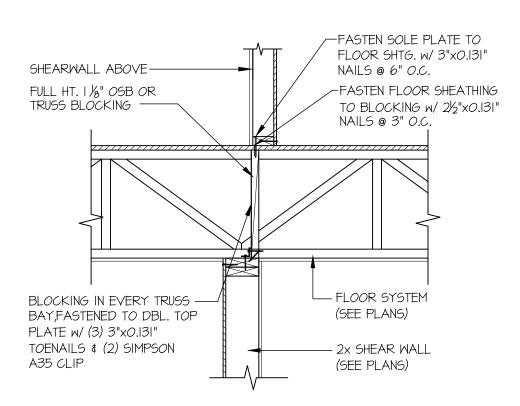




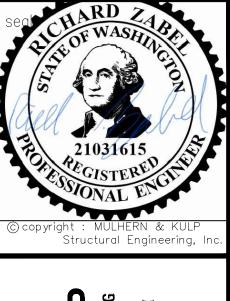
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



SHEAR TRANSFER DETAIL (13) @ SHEAR WALL BELOW SCALE: 3/4"=1'-0"



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



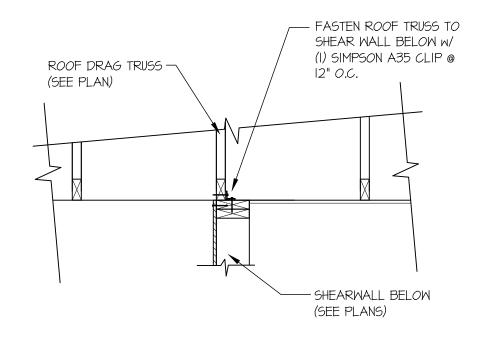
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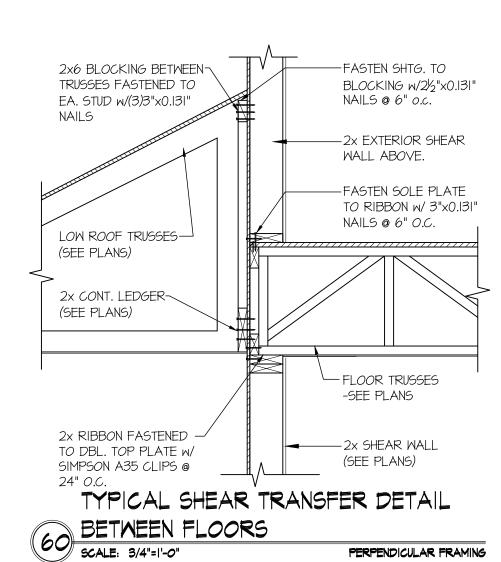
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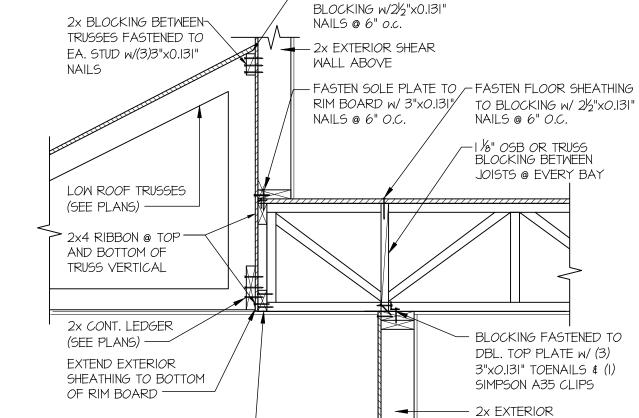
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#### SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE SCALE: 3/4"=1'-0" PARALLEL FRAMING



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





- FASTEN SHTG. TO

SHEAR TRANSFER DETAIL @

SHEARWALL BELOW

SCALE: 3/4"=1'-0"

FASTEN BOTTOM RIBBON -

TO EACH TRUSS VERTICAL

w/ (2) 3" x0.131" NAILS

AB0VE

SHEAR TRANSFER DETAIL

- TOP CHORD OF

7/16" A.P.A. RATED 0.S.B.

SHEATHING (ONE SIDE) W/

2½"x0.131" NAILS @ 3" O.C.

-BOTTOM CHORD OF

-FASTEN 2x6 BLOCKING

SIMPSON A35 CLIP

TO DBL. TOP PLATE w/ (I)

SHEARWALL

(SEE PLANS)

ROOF TRUSS

ROOF TRUSS

@ INT. SHEARWALL ABOVE

SCALE: 3/4"=1'-0"

2x6 BLOCKING FASTENED TO -

TRUSS @ EA. END w/ (2)3"x0.131"

TOENAILS. FASTEN ROOF

SHEAR WALL

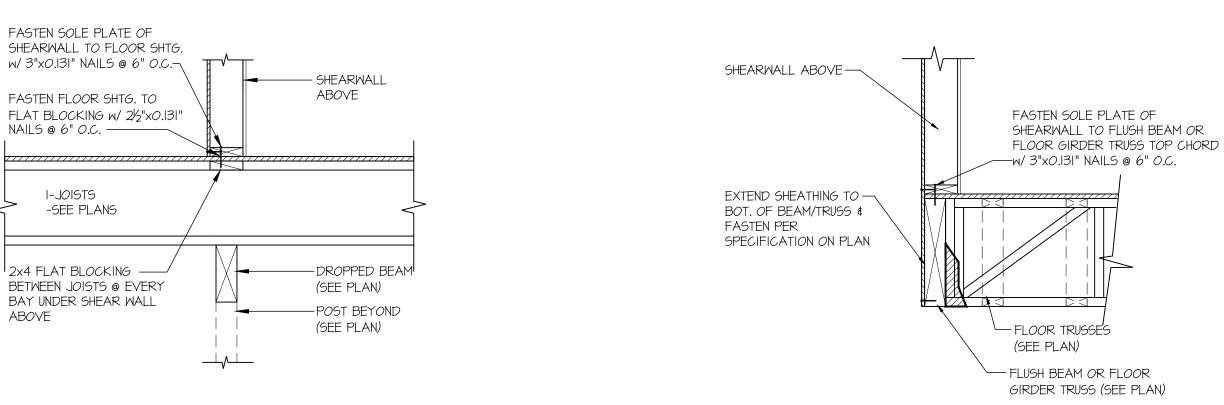
-SEE PLAN FOR

SPECIFICATIONS

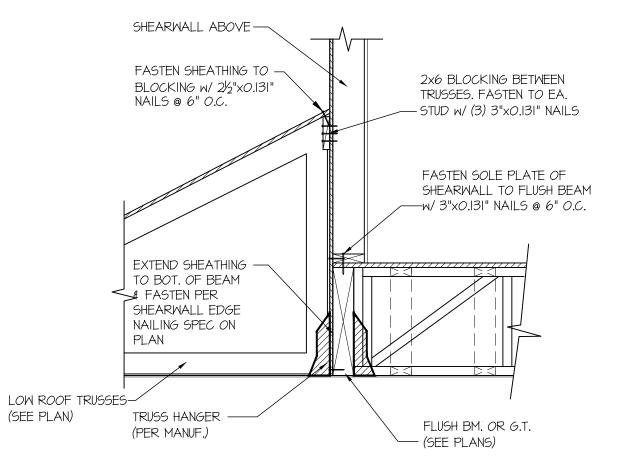
SHEATHING TO BLOCKING W/

2½"x0.131" NAILS @ 3" O.C.

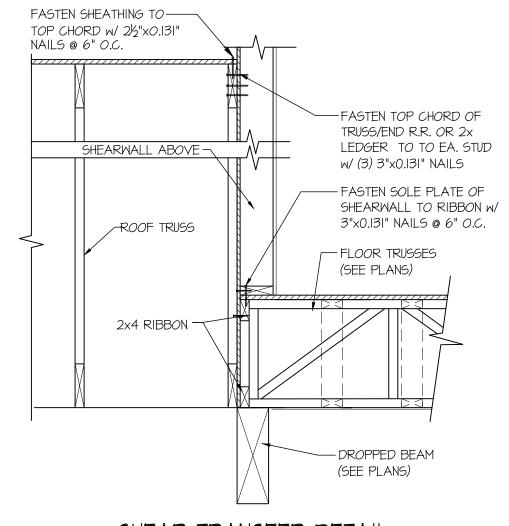
## TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE SCALE: 3/4"=1'-0"



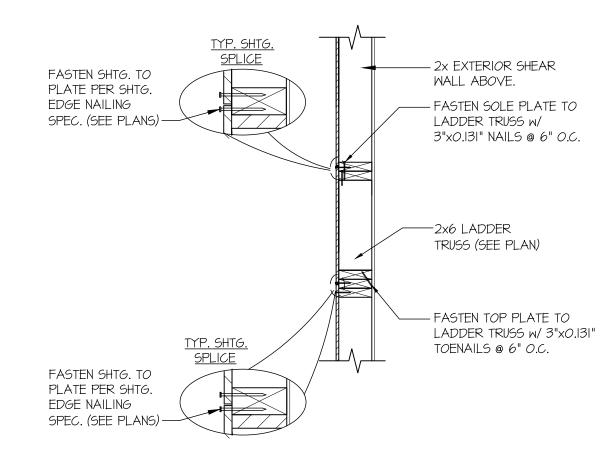






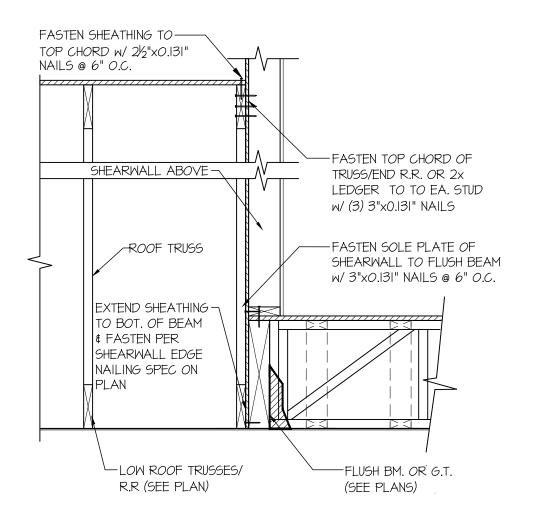


SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE SCALE: 3/4"=1'-0"

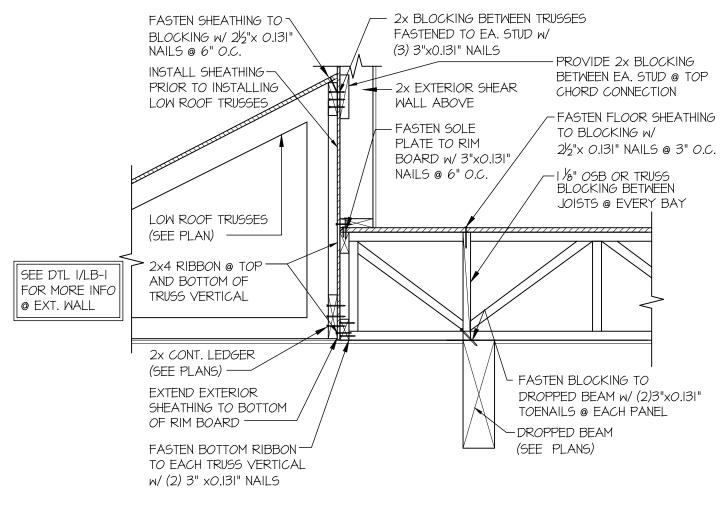


TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE LADDER TRUSS

SCALE: 3/4"=1'-0"



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



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



2

M&K project number: 154-22002

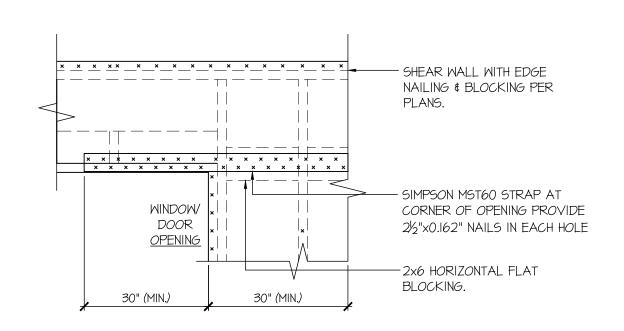
RJZ JCL 02-09-2 REVISIONS:

initia

TAIL TURAL  $\mathbb{Z}$ TRU PIH

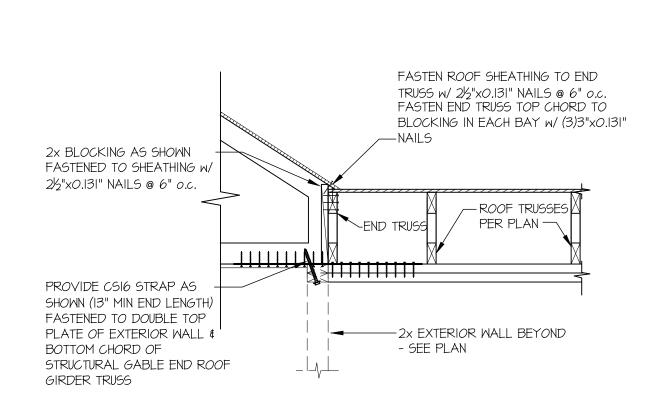
**\_B-2** 

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



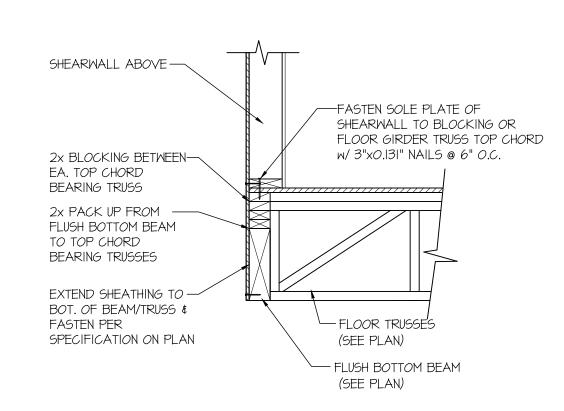
 ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL PLANS

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

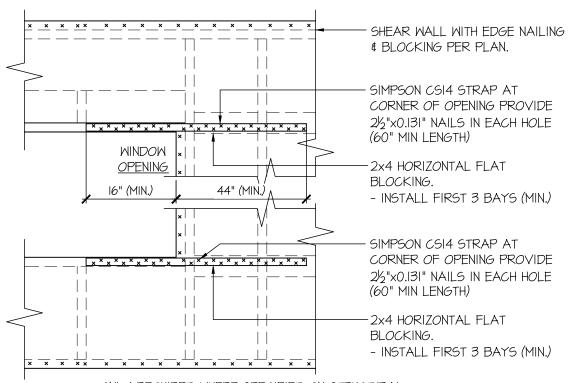


STRAP DETAIL

SCALE: 3/4"=1'-0"

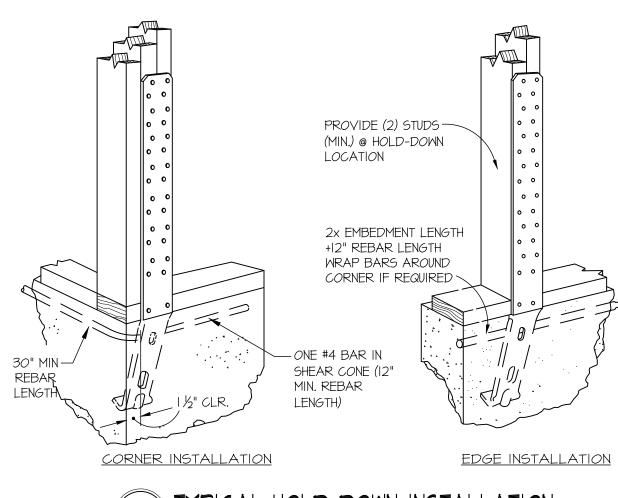


## SECTION | SCALE: 3/4"=1'-0"

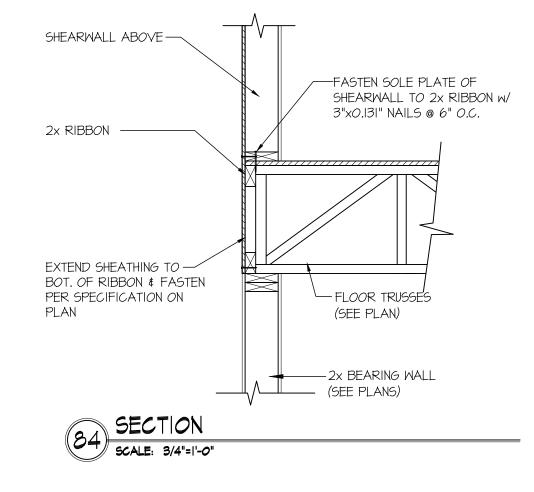


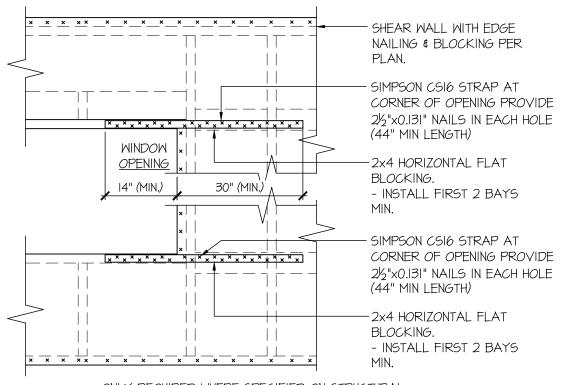
- ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL
- IF MIN LENGTH IS NOT PROVIDED RUN STRAP TO END OF WALL

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



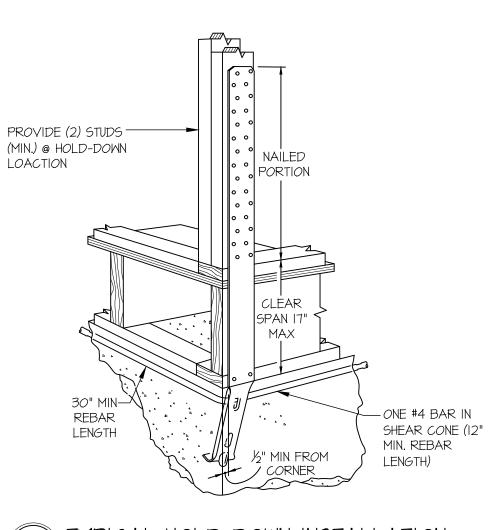
TYPICAL HOLD-DOWN INSTALLATION SIMPSON STHD HD @ FOUNDATION



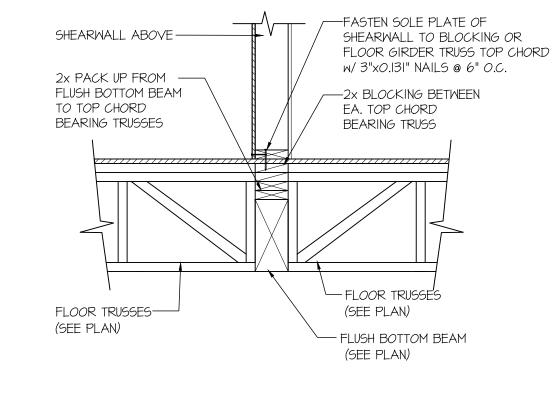


- ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL
- IF MIN LENGTH IS NOT PROVIDED RUN STRAP TO END OF WALL

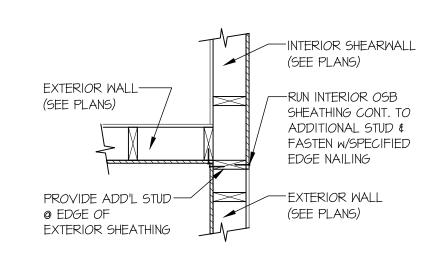
#### EXT. WALL & INT. SHEARWALL 94 OPENING ELEVATION SCALE: NTS



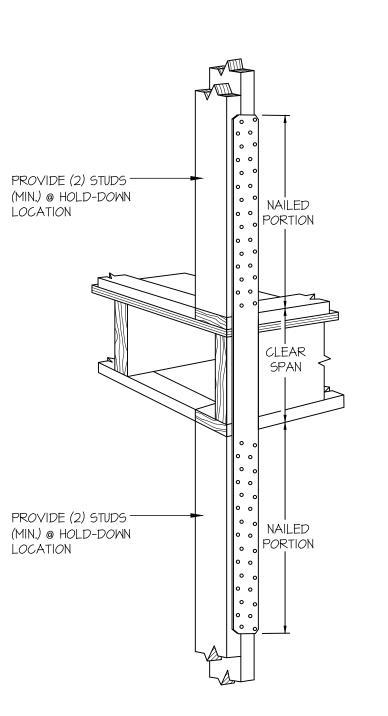








SHEAR TRANSFER DETAIL @ 99 INTERSECTING INT. SHEARWALL SCALE: 3/4"=1'-0" SHTG. OPPOSITE FACES







Structural Engineering,

2

M&K project number:

REVISIONS:

154-22002

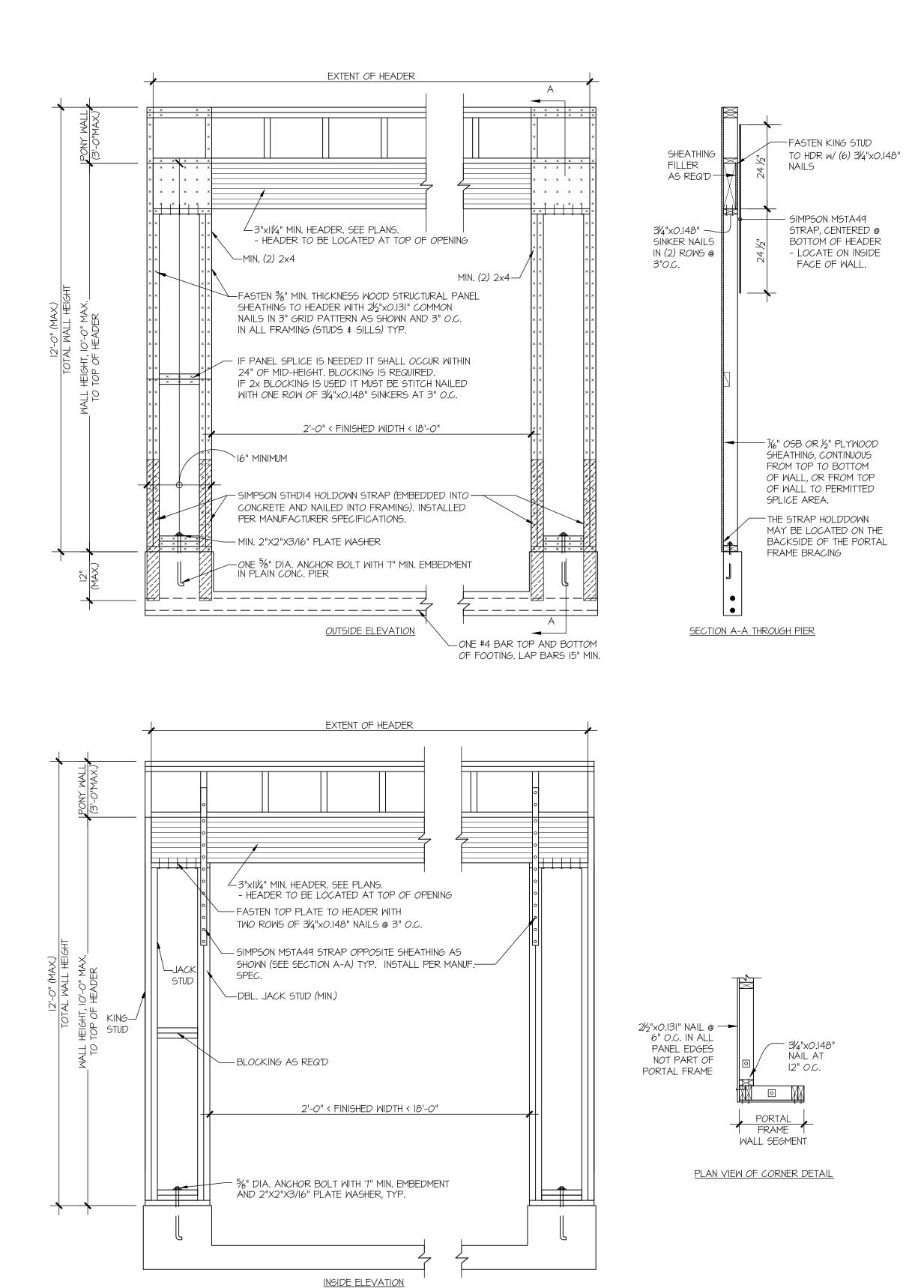
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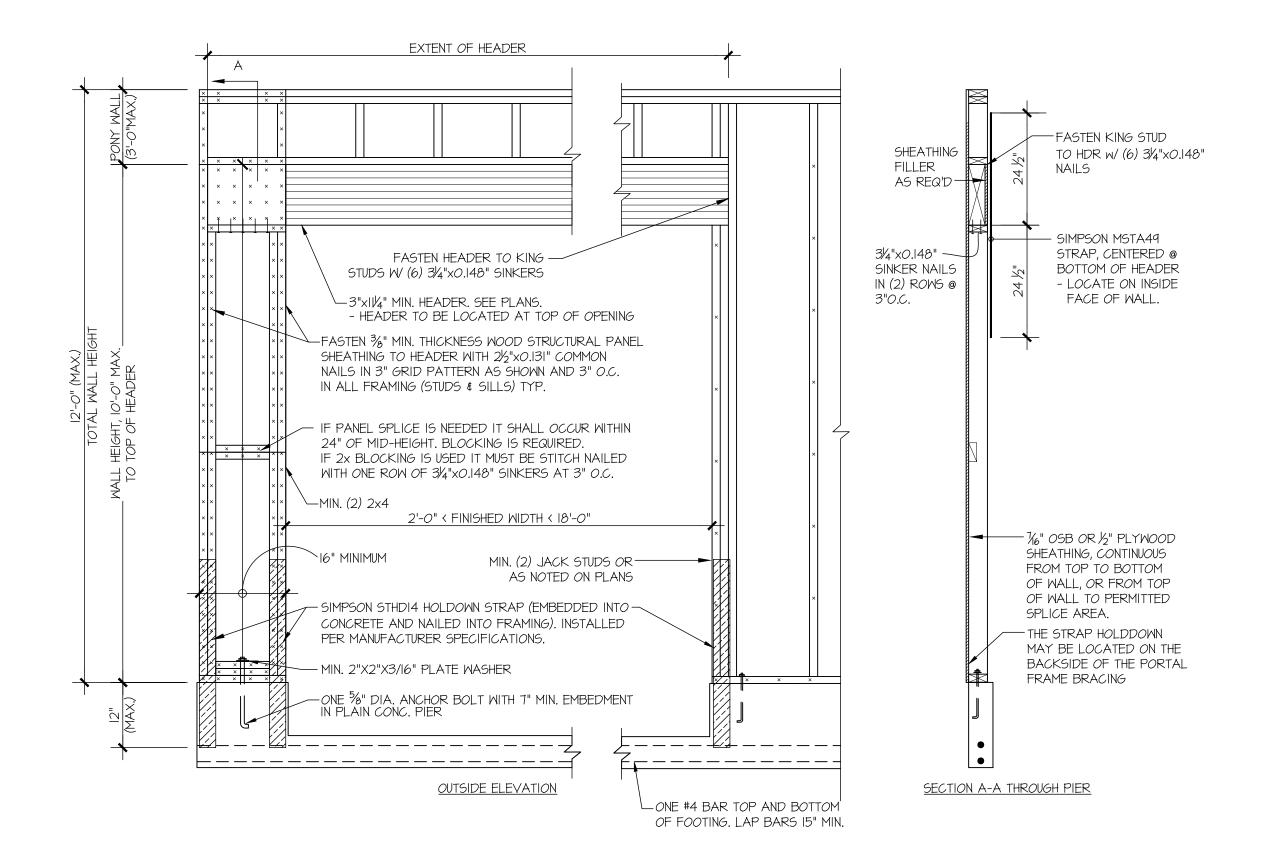
02-09-2

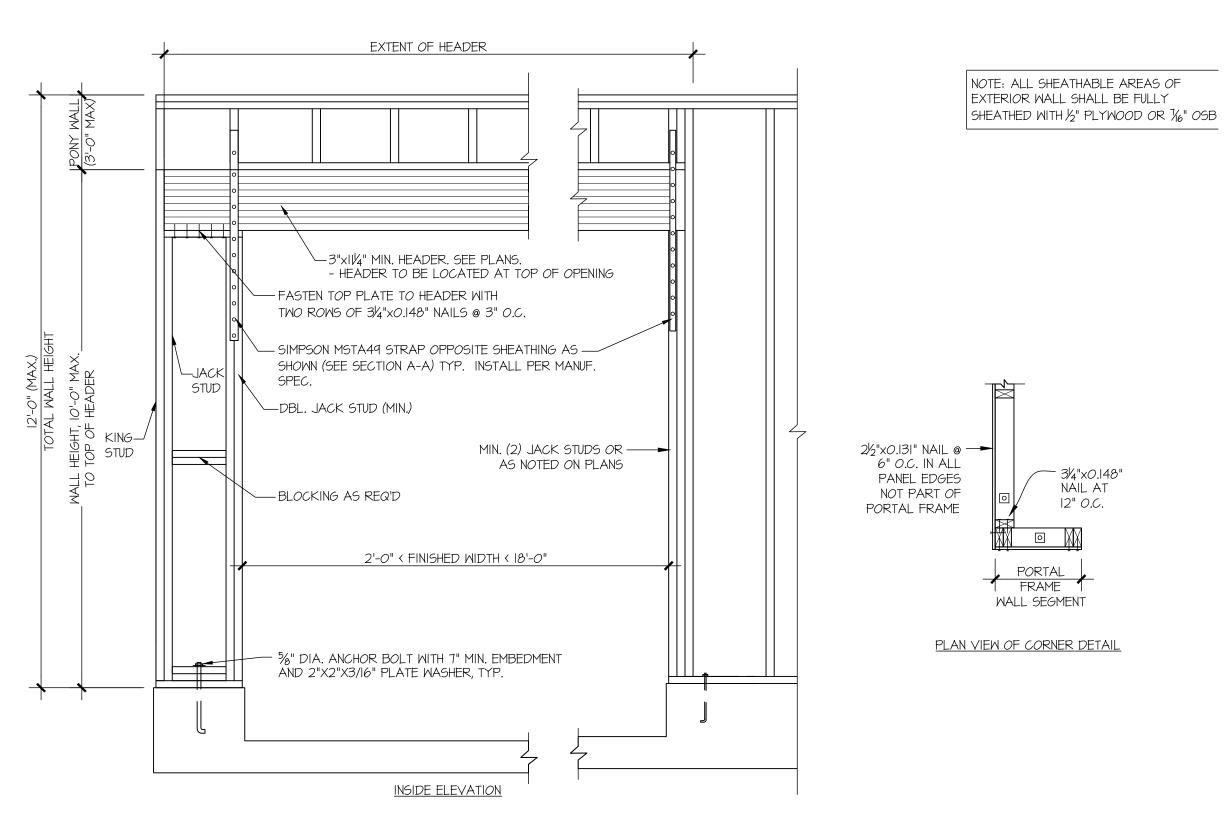
DETAIL SIDENC TURAL PIHA

LB-3



APA PORTAL FRAME DETAIL MITH HOLDOMS SCALE: N.T.S.





APA PORTAL FRAME DETAIL MITH HOLDOMS SCALE: N.T.S. ONE SIDE OF GARAGE DOOR



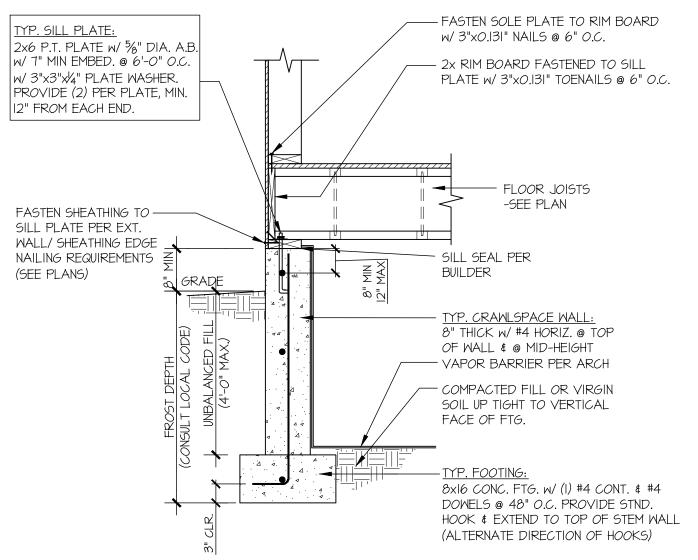
M&K project number:

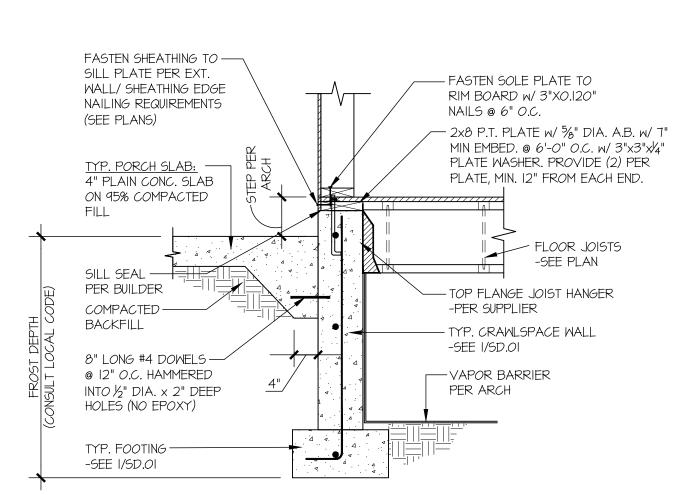
154-22002

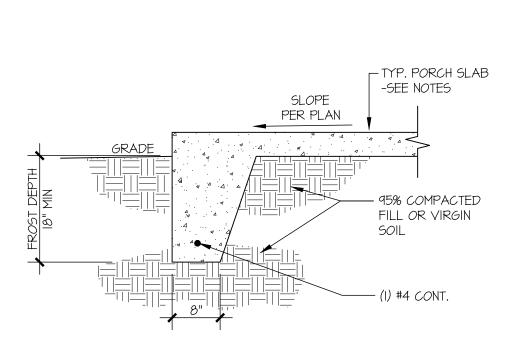
02-09-22

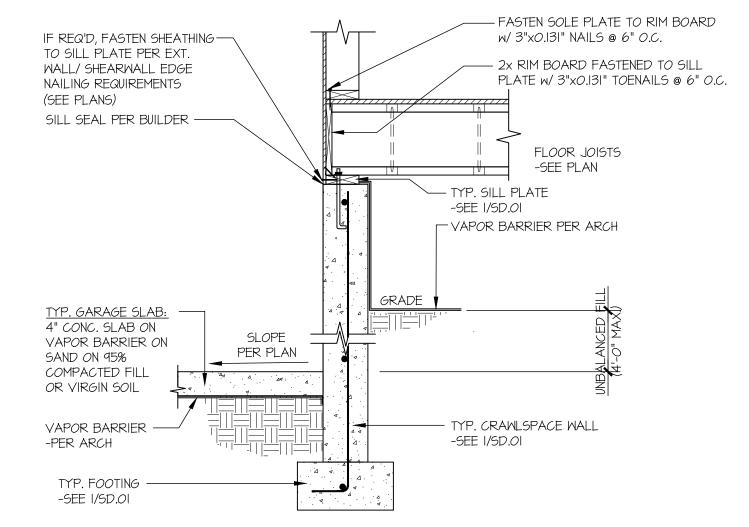
REVISIONS:

DETAIL















TYP. SILL PLATE

-SEE I/SD.OI

— TYP. GARAGE SLAB

-SEE 4/SD.OI

TYP. GARAGE WALL: 8" THICK w/ #4 HORIZ. @ TOP OF WALL & @ MID-HEIGHT

-SEE I/SD.OI

SLOPE

PER PLAN

FASTEN SHEATHING TO SILL —

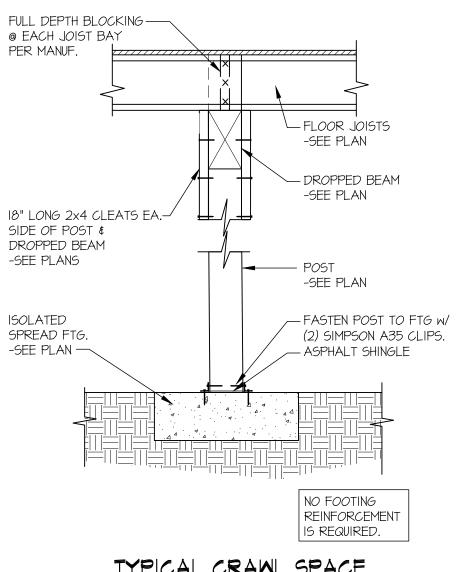
PLATE PER EXT. WALL/

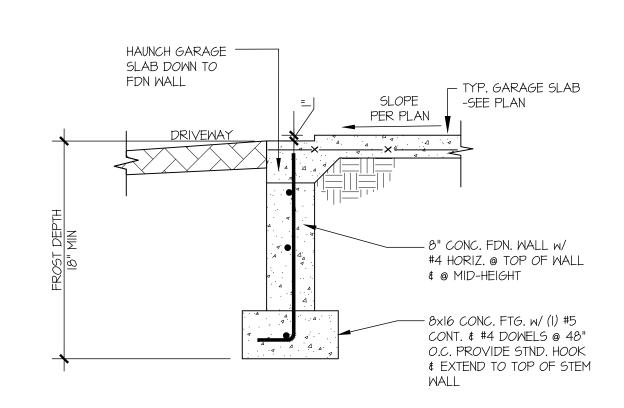
SHEARWALL EDGE NAILING

REQUIREMENTS (SEE PLANS)

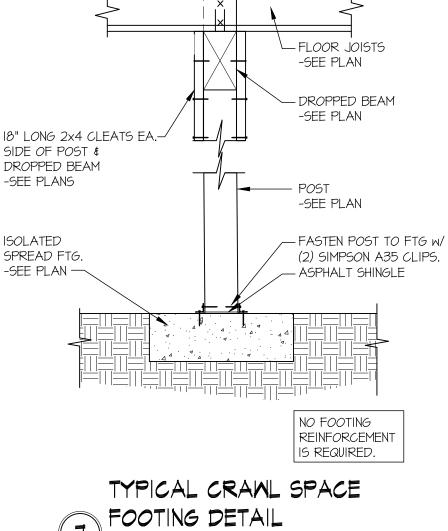
GRADE



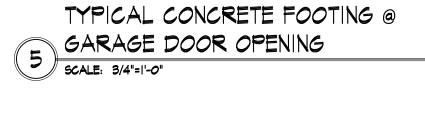


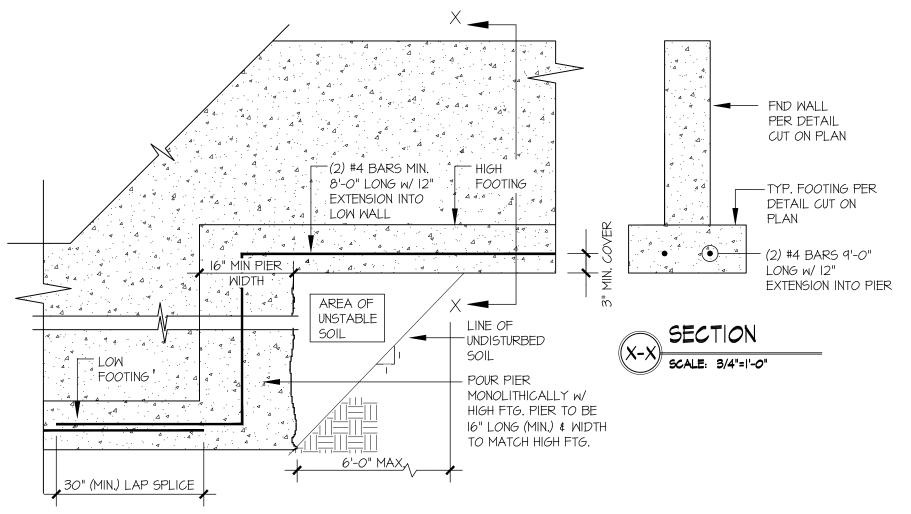






SCALE: 3/4"=1'-0"





SCALE: 3/4"=1'-0"



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Structural Engineering,

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M&K project number:

REVISIONS:

154-22002

RJZ

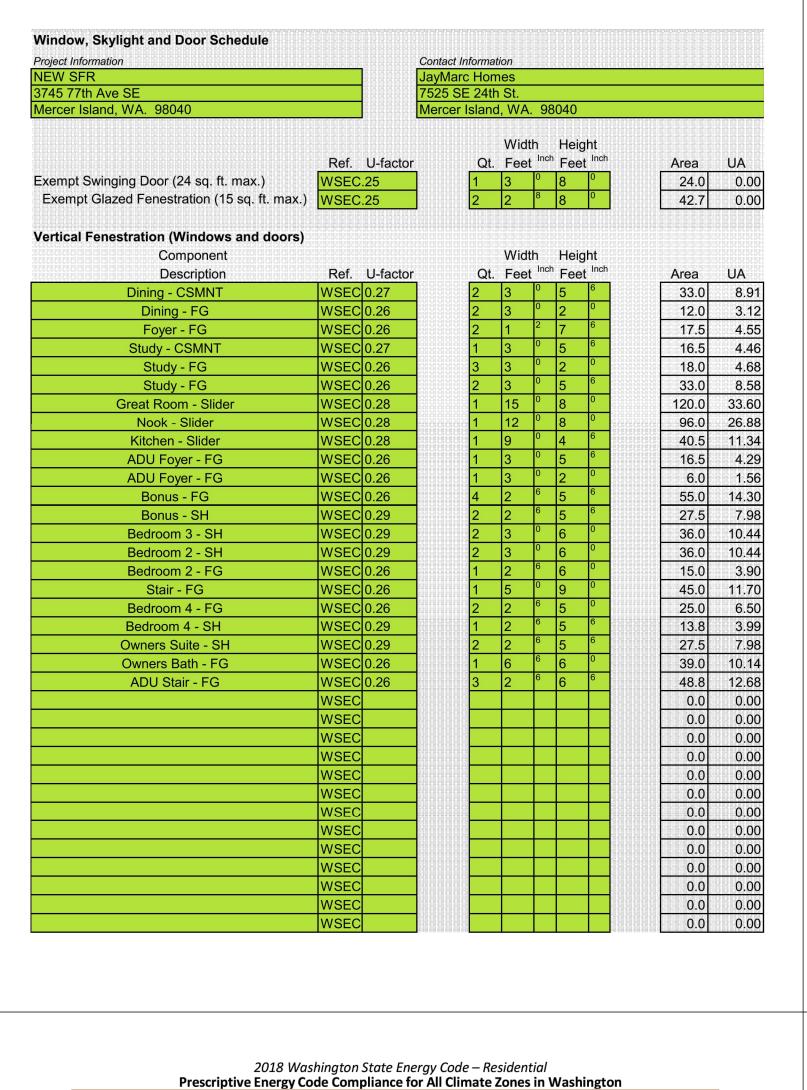
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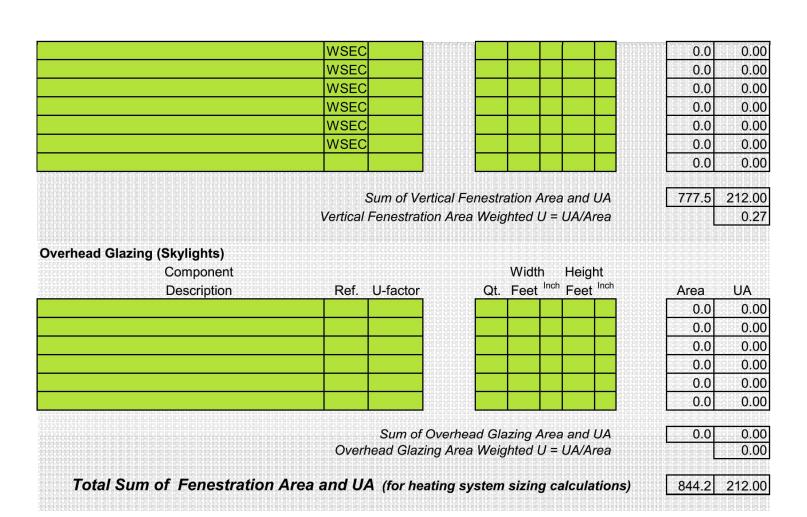
02-09-22

STRUCTURAL DETAIL

PIHA

SD.01





2018 Washington State Energy Code – Residential

Prescriptive Energy Code Compliance for All Climate Zones in Washington

Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of

maximum tested building air leakage, and show the qualifying ventilation system and its control sequence

Dwelling units less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area.

Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.

credits. To claim this credit, the building permit drawings shall specify the option selected and the

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

Summary of Table R406.2

Credits - select ONE

heating option

**User Notes** 

Single Family – New & Additions (effective February 1, 2021)

Simple Heating System Size: Washington State his heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads. Please complete the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please contact the WSU Energy Program at energycode@energy.wsu.edu or (360) 956-2042 for assistance. n Redman - JayMarc Homes Heat Pump Heating System Type: To see detailed instructions for each section, place your cursor on the word "Instructions" Design Temperature Design Temperature Difference (ΔT) ΔT = Indoor (70 degrees) - Outdoor Design Temp Area of Building Conditioned Floor Area Instructions Conditioned Floor Area (sq ft) **Average Ceiling Height** Conditioned Volume Instructions Average Ceiling Height (ft) 35,361 **Glazing and Doors U-Factor** 0.280 1,304 U-Factor Area = UA Instructions 0.50 Insulation U-Factor X 0.026 Single Rafter or Joist Vaulted Ceilings No selection Above Grade Walls (see Figure 1) U-Factor X 0.056 U-Factor Instructions 0.025 Below Grade Walls (see Figure 1) U-Factor 0.042 Slab Below Grade (see Figure 1) F-Factor X Length 0.303 No Slab Below Grade in this project. Slab on Grade (see Figure 1) F-Factor X No Slab on Grade in this project. Location of Ducts Duct Leakage Coefficient 729.73 Sum of UA 32,838 Btu / Hour Envelope Heat Load Sum of UA  $x \Delta T$ 17,185 Btu / Hour Air Leakage Heat Load Volume  $x = 0.6 \times \Delta T \times 0.018$ **Building Design Heat Load** 50,023 Btu / Hour Air leakage + envelope heat loss Building and Duct Heat Load 50,023 Btu / Hour Ducts in unconditioned space: sum of building heat loss x 1.10 Ducts in conditioned space: sum of building heat loss x 1 Maximum Heat Equipment Output 62.529 Btu / Hour Building and duct heat loss x 1.40 for forced air furnace Building and duct heat loss x 1.25 for heat pump (07/01/13)

2018 Washington State Energy Code – Residential

Prescriptive Energy Code Compliance for All Climate Zones in Washington

Single Family – New & Additions (effective February 1, 2021)

Summary of Table R406.2 (cont.)							
Energy Options	Energy Credit Option Descriptions (cont.)	Credits - select ONE energy option from each category <sup>d</sup>		User Notes			
5.1 <sup>d</sup>	Efficient Water Heating	0.5					
5.2	Efficient Water Heating	0.5	0				
5.3	Efficient Water Heating	1.0	0				
5.4	Efficient Water Heating	1.5	0				
5.5	Efficient Water Heating	2.0	•				
5.6	Efficient Water Heating	2.5	0				
6.1 <sup>e</sup>	Renewable Electric Energy (3 credits max)	1.0					
7.1	Appliance Package	0.5					
	Total Credits	6.5	Calculate Total Clear Form				

- a. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W, whichever is bigger, may be installed in the dwelling unit.
- b. Equipment listed in Table C403.3.2(4) or C403.3.2(5) c. Equipment listed in Table C403.3.2(1) or C403.3.2(2)
- d. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2 through 5.6. See Table 406.3.
- e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max. See the complete Table R406.2 for all requirements and option descriptions.
- f. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

Please print only pages 1 through 3 of this worksheet for submission to your building offi

Single Family – New & Additions (effective February 1, 2021)

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

Project Information	Contact Information	
New SFR	Ryan Redman - JayMarc Homes	
3745 77th Ave Se, Mercer Island, WA.	7525 SE 24th St., Mercer Island, WA. 98040	

**Instructions**: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and Fenestration Requirements by Component, Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Authorized Representative Ryan Redman Digitally signed by Ryan Redman Date: 2021.03.29 10:47:19 -07'00' Date 02/15/2022

All Climate Zones (Table R402.1.1)					
	R-Value <sup>a</sup>	U-Factor <sup>a</sup>			
Fenestration U-Factor <sup>b</sup>	n/a	0.30			
Skylight U-Factor <sup>b</sup>	n/a	0.50			
Glazed Fenestration SHGC b,e	n/a	n/a			
Ceiling <sup>e</sup>	49	0.026			
Wood Frame Wall <sup>g,h</sup>	21 int	0.056			
Floor	30	0.029			
Below Grade Wall <sup>c,h</sup>	10/15/21 int + TB	0.042			
Slab <sup>d,f</sup> R-Value & Depth	10, 2 ft	n/a			

- R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity that is less a than the label or design thickness of the insulation, the compressed *R*-value of the insulation from Appendix Table A101.4 shall not be less than the *R*-value specified in the table.
- b The fenestration *U*-factor column excludes skylights.
- "10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at c the interior of the basement wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "5TB" means R-5 thermal break between floor slab and basement wall.
- d R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.
- For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall. R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter
- f slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics.
- For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for climate zone 5 of ICC 400.
- Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard
- h framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.

1 Combustion heating minimum NAECAb 0.0 0 2 Heat pump<sup>c</sup> 1.0 -1.0 3 Electric resistance heat only - furnace or zonal 4 DHP with zonal electric resistance per option 3.4 0.5 5 All other heating systems -1.0 Credits - select ONE energy option from each **Energy Credit Option Descriptions** 1.1 2ffmm?????mdm?????mm?? 0.5 1.0 1.2 Efficient Building Envelope 1.3 Efficient Building Envelope 0.5 1.4 Efficient Building Envelope 1.0 1.5 Efficient Building Envelope 2.0 1.6 Efficient Building Envelope 3.0 1.7 Efficient Building Envelope 0.5 2.1 Air Leakage Control and Efficient Ventilation 0.5 2.2 Air Leakage Control and Efficient Ventilation 2.3 Air Leakage Control and Efficient Ventilation 1.5 0 2.4 Air Leakage Control and Efficient Ventilation 3.1<sup>a</sup> High Efficiency HVAC 1.0 1.0 3.2 High Efficiency HVAC 3.3<sup>a</sup> High Efficiency HVAC 1.5 3.4 High Efficiency HVAC 1.5 3.5 High Efficiency HVAC 3.6<sup>a</sup> High Efficiency HVAC 0.5 4.1 High Efficiency HVAC Distribution System 4.2 High Efficiency HVAC Distribution System

2018 Washington State Energy Code-R Prescriptive Path - Single Family

7525 SE 24th St., 487

Mercer Island, WA 98040

425.266.9100

	Issue Date By
Description	n
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<sub>1.</sub>	
L	
.	

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

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Homes, LLC.

Submittal Date

Sheet Title/Description

Design Firm

Drawn by:

Checked by:

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



Prescriptive Path - Single Family

2018 Washington State Energy Code-R

Prescriptive Path – Single Family

of operation.

1. Small Dwelling Unit: 3 credits

2. Medium Dwelling Unit: 6 credits

3. Large Dwelling Unit: 7 credits

All dwelling units that are not included in #1 or #3

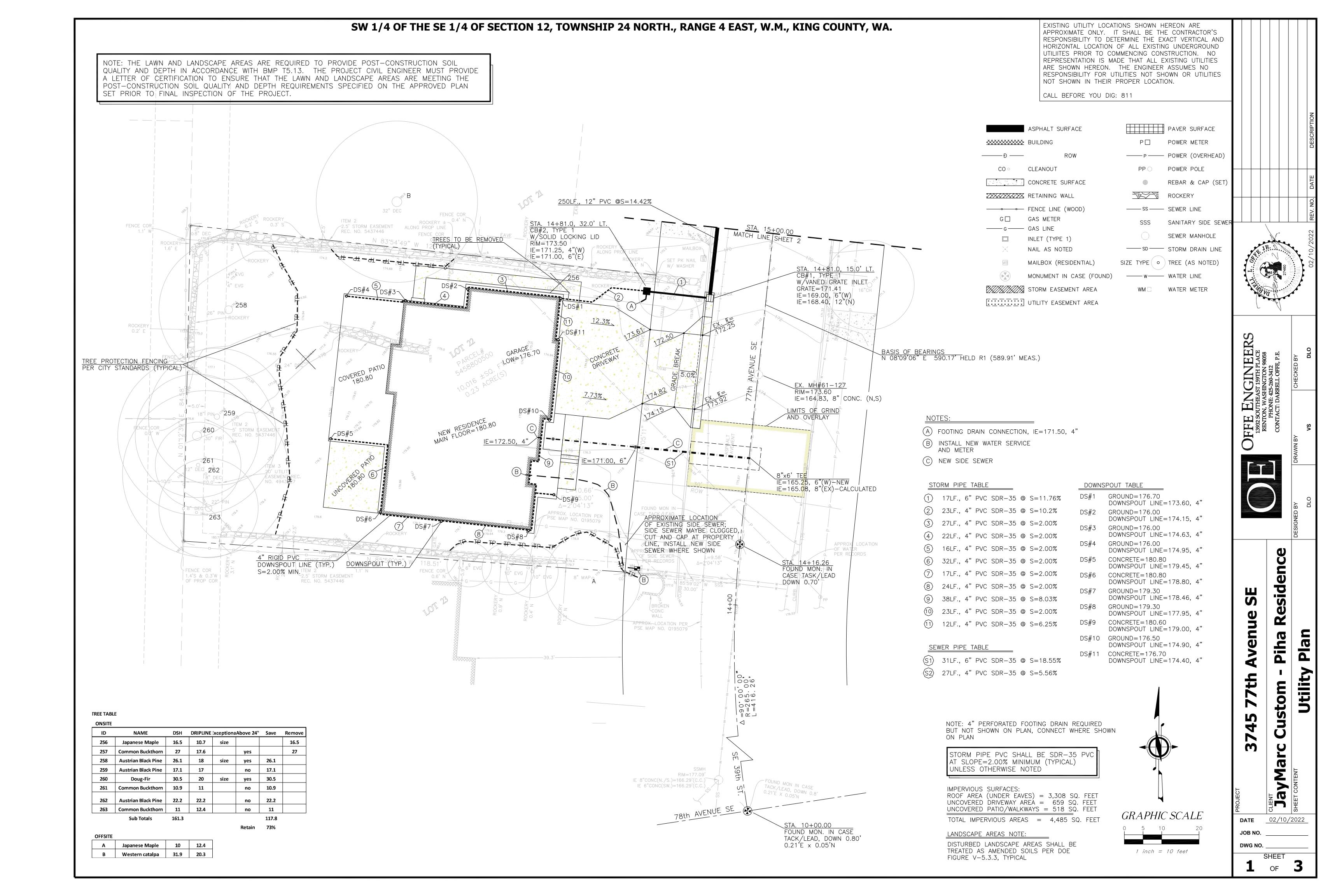
4. Additions less than 500 square feet: 1.5 credits

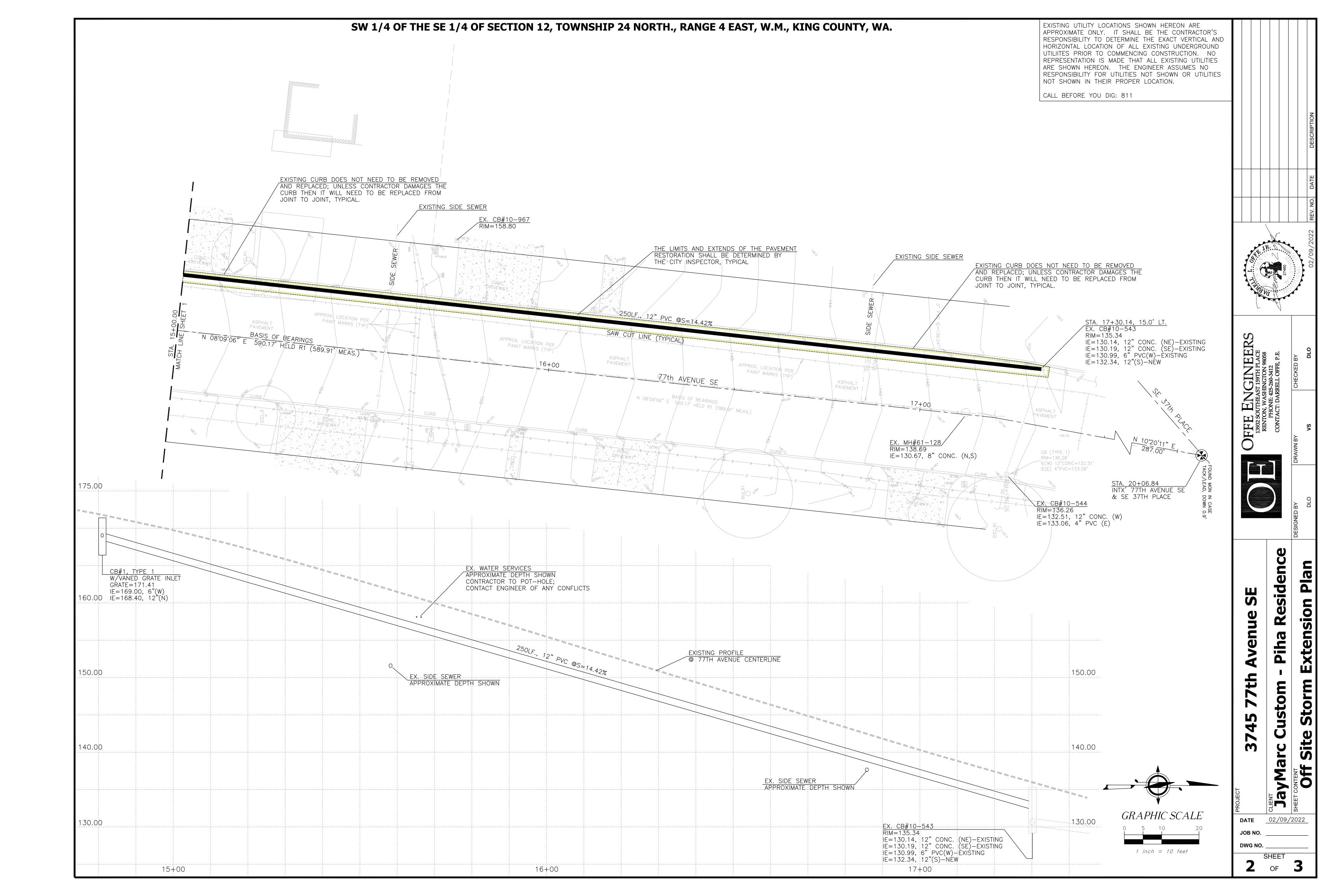
All other additions shall meet 1-3 above

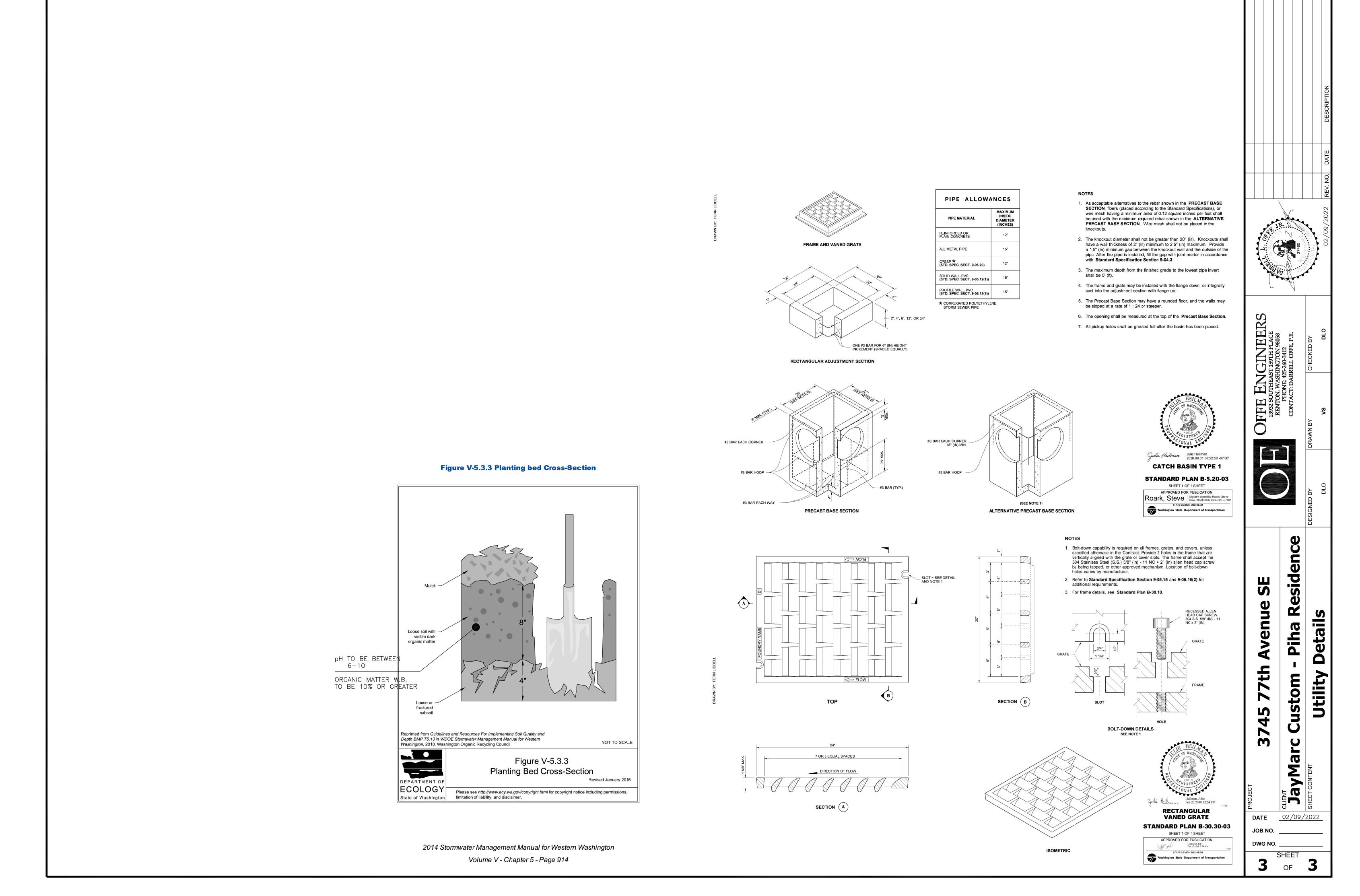
Dwelling units exceeding 5,000 sf of conditioned floor area

**Fuel Normalization Descriptions** 

2018 Washington State Energy Code-R







SHEET NUMBER

1 OF 2

TOWNSHIP: 24N

COUNTY: KING

RANGE: <u>04E, W.M.</u>

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.

