

3DIMENSIONAL VIEW SHOWS ROUGH DESIGN INTENT ONLY, FOR ALL TECHNICAL DETAILS OR PROJECT SPECIFICS REFER TO ORTHOGRAPHIC DRAWINGS.

VIEW FROM REAR YARD

# AVERAGE BUILDING HEIGHT CALCULATION

 $(9.6\ 1/4"\ x\ 112'-9\ 1/2") + (7.1\ 1/4"\ x\ 112'-11") + (9.7"\ x\ 113'2\ 1/2") + (12.7\ 1/2"\ x\ 114'.7\ 1/2") + (12.3"\ x\ 114'.8") + (8.7"\ x\ 114'.10") + (15.0\ 1/2"\ x\ 114'.10") + (8.7"\ x\ 114'.10") + (14'.3"\ x\ 114'.10") + (14'.3"\ x\ 114'.10") + (15.0\ 1/2"\ x\ 114'.1$  $\underline{114'-8"} + (\underline{12'-7} \ \underline{1/2"} \ x \ \underline{114'-8"}) + (\underline{14'-4} \ \underline{1/2"} \ x \ \underline{113'-0} \ \underline{1/4"}) + (\underline{11'-10"} \ x \ \underline{112'-7} \ \underline{1/4"}) + (\underline{4'-10"} \ x \ \underline{112'-11} \ \underline{1/2"}) + (\underline{13'-10} \ \underline{1/4"} \ x \ \underline{112'-9} \ \underline{1/2"}) + (\underline{10'-6"} \ x \ \underline{115'-3} \ \underline{1/2"}) + (\underline{14'-3} \ \underline{3/4"} \ x \ \underline{107'-11"})$  $(9.6\ 1/4" + 7.1\ 1/4" + 9.7" + 12.7\ 1/2" + 12.3" + 8.7" + 15.0\ 1/2" + 8.7" + 14.3" + 12.7\ 1/2" + 14.4\ 1/2" + 11.10" + 4.10" + 13.10\ 1/4" + 10.6" + 14.3\ 3/4")$ 

= 20359.01 SF = 113'-5 7/8" A.B.E 179'-10 1/2"

# LOT SLOPE CALCULATION

122'-3" (HIGHEST POINT) - 109'-11"(LOWEST POINT) = 12' - 4" HORIZONTAL DISTANCE BETWEEN HIGH AND LOW POINTS= 112' - 0 1/2" LOT SLOPE = 12'-4" / 112'-0 1/2" = .1100781 = 11%

# LOT COVERAGE CALCULATION

EXISTING HOUSE = 1391.84 SF DRIVE WAY = 205.47 SF ADDITION = 422.37 SFEXISTING HOUSE REMOVED = -53.32 SF TOTAL PROPOSED COVERAGE = 1966.36 SF

GROSS LOT AREA = 6000 SF

EXISTING EASEMENTS = 1050 SF NET LOT AREA = 4950 SF ALLOWED COVERAGE (40%) = 1980 SF

# GROSS FLOOR AREA CALCULATION

BUILDING AREA	EXISTING BUILDING AREA	NEW ADDITION AREA	<u>TOTAL</u>
UPPER FLOOR	1015 SF	0	1015 SF
MAIN FLOOR	1105.81 SF	336.83 SF	1442.64
BASEMENT AREA	636.33 SF	0	636.33 SF
BASEMENT GARAGE AREA	361.49 SF	0	361.49 SF
EXCLUDED BASEMENT AREA	-785.28 SF	0	-785.28 S
		0	

BASEMENT EXCLUSION CALC

WALL	WALL LENGTH	COVERAGE	RESULT
NORTH SOUTH EAST WEST	25' - 11 1/2" 25' - 11 1/2" 38' - 4 3/4" 38' - 4 3/4"	5'-1 3/8" / 7'-2 3/8" = 71.06% 5'-2 3/8" / 7'-2 3/8" = 72.2% 6'-9 3/8" / 7'-2 3/8" = 94.2% 5'-2 7/8" / 7'-2 3/8" = 72.79%	18.45 18.74 36.17 27.94
TOTAL	128.71'		101.3

101.3/128.71 = 78.7% EXCLUSION TOTAL BASEMENT AREA = 997.82 SF TOTAL EXCLUDED AREA = 785.28 SF

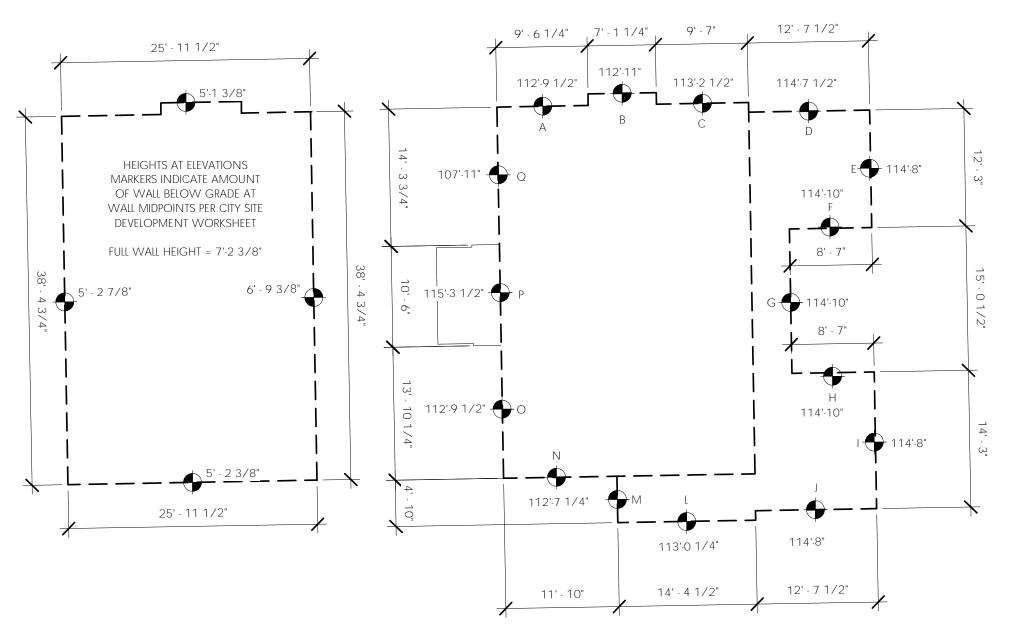
ALLOWED GROSS FLOOR AREA = 2700 SF (45% OF LOT AREA FOR LOTS UNDER 7500SF) PROPOSED GROSS FLOOR AREA = 2670.18 SF (44.5% OF LOT AREA)

# HARDSCAPE CALCULATION

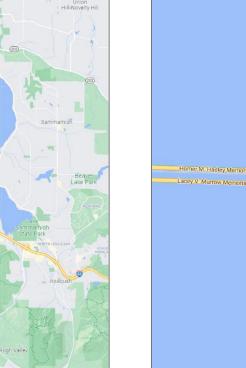
BASEMENT WALL COVERAGE DIAGRAM

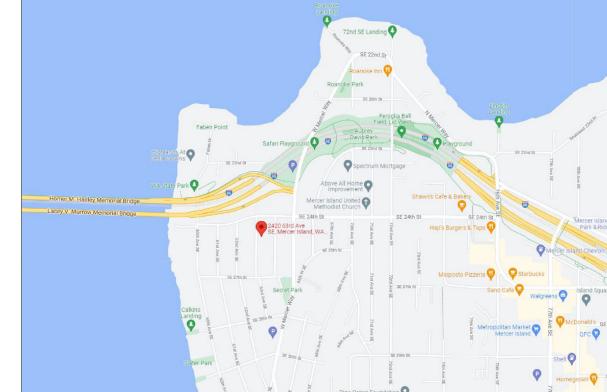
1" = 10'-0"

GROSS LOT AREA = 6000 SF EXISTING EASEMENTS = 1050 SF NET LOT AREA = 4950 SF EXISTING HARDSCAPE = 706.4 ADDED HARDSCAPE = 132.97 REMOVED HARDSCAPE = 399.56 SF ALLOWED HARDSCAPE (9% + LEFTOVER LOT COVERAGE) = 445.5 SF + 14.31 = 459.96 SF TOTAL PROPOSED HARDSCAPE = 439.81



# GRADE DIAGRAM 1" = 10'-0"









### LAKE VIEW PLACE EAST SEATTLE

EXISTING (NET NON-CONDITIONED) PROPOSED (NET NON-CONDITIONED) PLAT BLOCK: 5 PLAT LOT: 7-8 PROPOSED TOTAL SF

REPAIR AND REFINISH LOT COVERAGE SUMMARY BASEMENT STAIRS, ADD A

SUNROOM AND AN OFFICE, NET LOT AREA RELOCATE AND RENOVATE THE TOTAL PROPOSED COVERAGE POWDER ROOM, DEMO THE DECK AND ADD A NEW PATIO.

<u>zone</u> R8.4

GENERAL INFORMATION

2420 63RD AVE SE

409950-0515

MERCER ISLAND, WA 98040

**BUILDING TYPE** SINGLE FAMILY RESIDENCE

PROJECT DIRECTORY

**ARCHITECT** 

PROJECT ADDRESS

ASSESSOR'S PARCEL #

LEGAL DESCRIPTION

PROJECT DESCRIPTION

GEORGIA MILLER AND TIMOTHY BLOOD <u>owner</u> 2420 63RD AVE SE

206.636.1163

MERCER ISLAND, WA 98040 RAIN CITY ARCHITECTURE

clint@raincityarchitecture.com VAULTED CEILING: WALL ABOVE GRADE: GENERAL CONTRACTOR TOEPHER CONSTRUCTION

### PROJECT DATA

REAR YARD

ENERGY CODE SUMMARY

SQUARE FOOT SUMMARY 1935.31 SF EXISTING (NET CONDITIONED) PROPOSED (NET CONDITIONED) 2240.66 SF 891.29 SF 891.29 SF, NO CHANGE 3131.95 SF

> 6000 SF 4951.67 SF

1966.36 SF PROPOSED LOT COVERAGE 39.7% (40% ALLOWED BASED ON LOT 11% LOT SLOPE)

SETBACKS SIDE YARD 5' MIN, SUM OF SIDEYARDS SHALL BE 15' FRONT YARD

OCCUPANCY SUMMARY

EXISTING TYPE -OCCUPANT LOAD -SINGLE FAMILY

CLIMATE ZONE 1 (TABLE 6-1) PRESCRIPTIVE OPTION III UNLIMITED GLAZING GLAZING U-FACTOR (VERTICAL): GLAZING U-FACTOR (OVERHEAD): DOOR U-FACTOR:

CEILING: R-38 WALL BELOW GRADE (INT.) R-21 (INT.) OR R-10 (EXT.) SLAB ON GRADE @ BASEMENT R-10

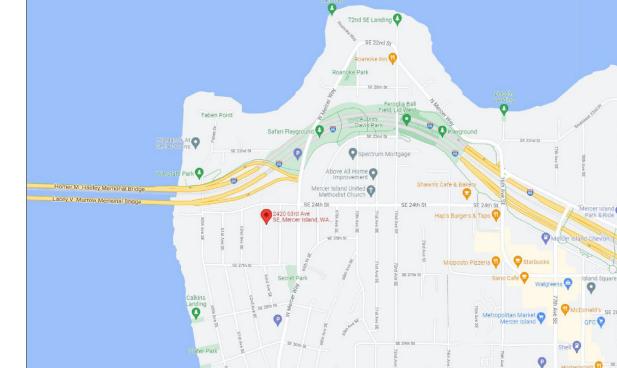
INSTALLED PER MERCER ISLAND MECHANICAL CODE, WORK TO BE COMPLETED UNDER A SEPARATE PERMIT.

FANS ON TIMERS, PER PLANS. VOLUME OF REQUIRED OUTDOOR VENTILATION AIR TO BE PROVIDED BASED ON TABLE 403.3 OF THE MERCER ISLAND MECHANICAL CODE.

\* PLUMBING, MECHANICAL, ELECTRICAL WORK TO BE PERMITTED SEPARATELY.

# SHEET INDEX

DISCIPLINE	SHEET NAME	SHEET NUMBER
ARCHITECTURAL	COVERSHEET	A000
	SITE PLAN	A001
	GENERAL NOTES, SYMBOLS, & ABBREV	A002
	DOOR AND WINDOW SCHEDULES AND ENERGY CODE WORKSHEET	A003
	DEMO MAIN FLOOR	D1.0
	UPPER FLOOR AND ROOF PLAN	A201
	EXTERIOR ELEVATIONS	A300
	SECTIONS	A400
	FINISH SCHEDULE	A601
STRUCTURAL	GENERAL STRUCTURAL NOTES	S1.1
	MAIN FLOOR FRAMING AND FOUNDATION PLANS	S2.1
	ROOF AND UPPER FLOOR FRAMING PLAN	S2.2
	TYPICAL CONCRETE DETAILS	S3.1
	TYPICAL CONCRETE DETAILS	S3.2
	TYPICAL WOOD DETAILS	S4.1
	TYPICAL WOOD DETAILS	S4.2





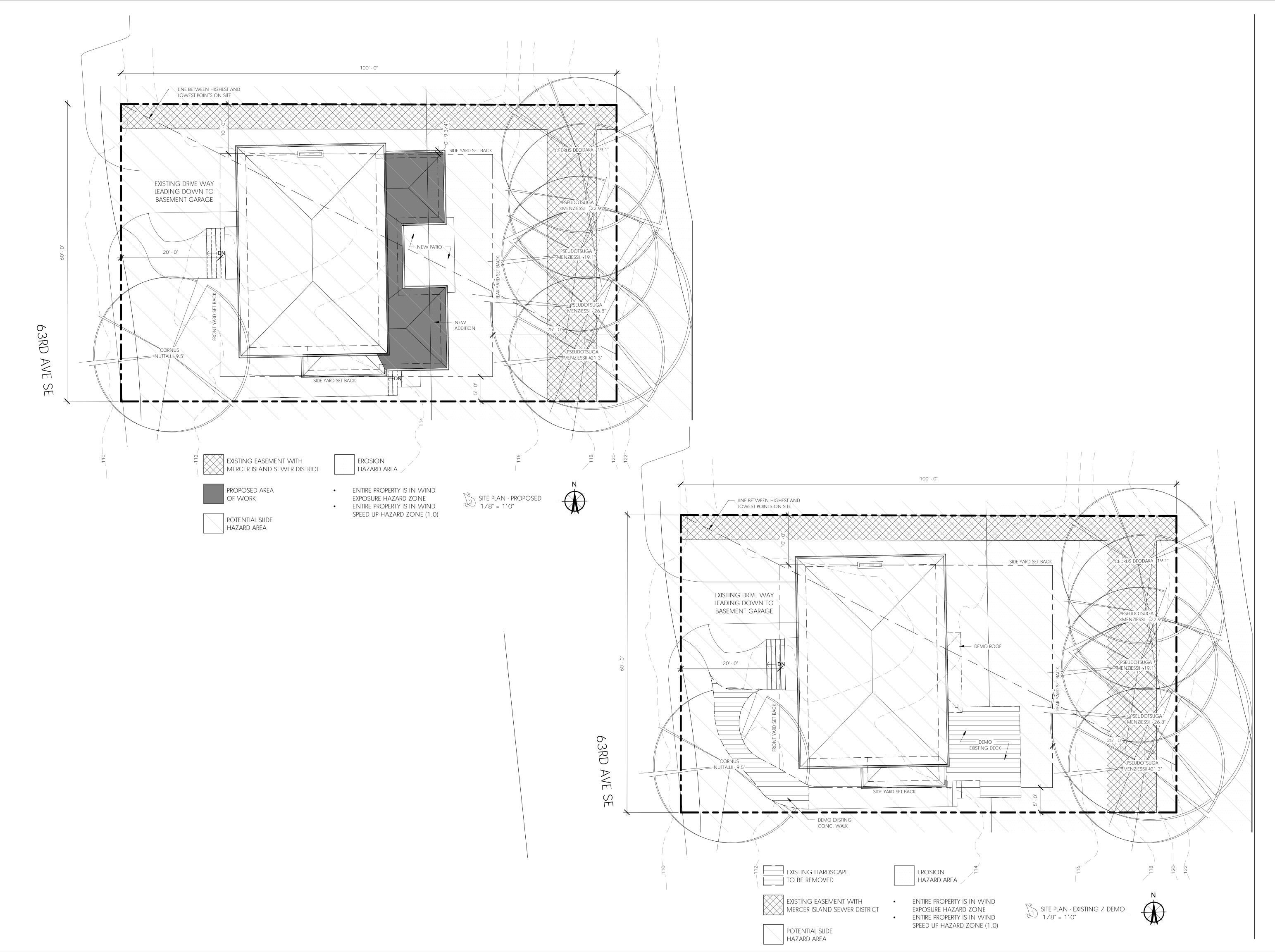
COVERSHEET

REVISIONS

A000

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RESIDENCE

REGISTERED ARCHITECT

STATE OF WASHINGTON

MERCER ISLAND, WA SITE PLAN

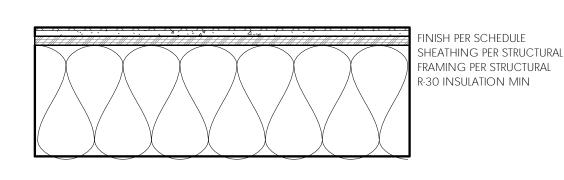
B

REVISIONS

A001 PERMIT SET



# HORIZONTAL ASSEMBLIES



/4" MORTAR BED

' CONCRETE - REINFORCING PER STRUCT " Free draining gravel

ANDING SEEM METAL ROOF OOFING MEMBRANE SHEATHING PER STRUCTURAL R-38 CLOSED CELL SPRAY FOAM INSULATION Framing per Structural

TANDING SEEM METAL ROOF

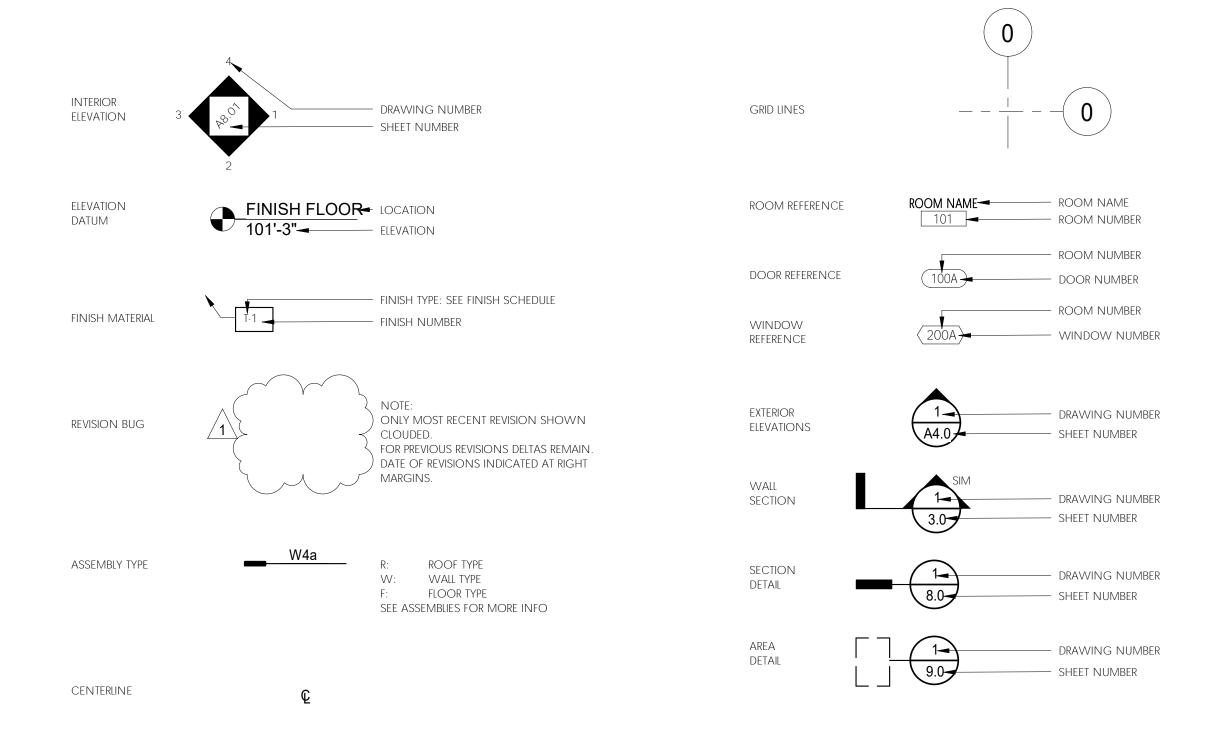
ROOFING MEMBRANE

R-49 INSULATION MIN Framing per structural

SHEATHING PER STRUCTURAL

HORIZONTAL

ABV	ABOVE	INSUL	INSULATION
AFF	ABOVE FINISH FLOOR	INT	INTERIOR
ADDL	ADDITIONAL	LOC	LOCATE, LOCATION
ADJ	ADJUSTABLE	MAX	MAXIMUM
ALT	ALTERNATE	MFR	MANUFACTURER
ARCH	ARCHITECT, ARCHITECTURAL	MECH	MECHANICAL
BLW	BELOW	MTL	METAL
BSMT	BASEMENT	MIN	MINIMUM
BTW	BETWEEN	NTS	NOT TO SCALE
BLD	BUILDING	O.C.	ON CENTER
CAB	CABINET	PLY	PLYWOOD
CALC	CALCULATION	PRELIM	PRELIMINARY
CLG	CEILING	PT	PRESSURE-TREATED
CL	CENTERLINE	PL	PROPERTY LINE
CLR	CLEAR	REFR	REFRIGERATOR
COL	COLUMN	REINF	REINFORCE, REINFORCIN
CONC	CONCRETE	REQD	REQUIRED
CONST	CONSTRUCTION	SCHED	SCHEDULE
CONT	CONTINUOUS	SW	SHEARWALL
CONTR	CONTRACTOR	SIM	SIMILAR
DEMO	DEMOLISH	SF	SQUARE FOOT
DIA	DIAMETER	SPECS	SPECIFICATIONS
DIM	DIMENSION	SSTL	STAINLESS STEEL
DW	DISHWASHER	STL	STEEL
DBL	DOUBLE	STRUCT	STRUCTURE, STRUCTURAL
EA	EACH	TEMP	TEMPORARY
ELEC	ELECTRIC, ELECTRICIAN	TOW	TOP OF WALL
ELEV	ELEVATION	TYP	TYPICAL
ENGR	ENGINEER	UNO	UNLESS NOTED OTHERW
EQUIV	EQUIVALENT	VIF	VERIFY IN FIELD
EXIST OR (E)	EXISTING	VERT	VERTICAL
EXT	EXTERIOR	WP	WATERPROOF, WEATHER
FF	FINISH FLOOR	WNDW	WINDOW
GALV	GALVANIZED	W/	WITH
GWB	GYPSUM WALL BOARD	W/O	WITHOUT
HDR	HEADER	WD	WOOD
HT	HEIGHT		



ALL WORK SHALL BE IN COMPLIANCE WITH 2018 ENERGY CODE

ALL WORK SHALL BE IN COMPLIANCE WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE AS ADOPTED AND MODIFIED BY THE CITY OF MERCER ISLAND, MERCER ISLAND LAND TOUNGE AND GROOVE, STAINED AND SEALED USE CODE, AND ALL OTHER LAWS, CODES, ORDINANCES AND REGULATIONS OF THE COUNTY, STATE, AND FEDERAL JURISDICTIONS. (LATEST EDITION AND AMENDMENTS)

### **UTILITIES AND SITE**

ALL UNDERGROUND UTILITIES MUST BE VERIFIED AS TO EXACT LOCATIONS SO AS NO INTERFERENCE BY DISRUPTION WILL BE CAUSED. GENERAL CONTRACTOR SHALL PROTECT existing facilities, structures and utilities by the methods recommended by the geotechnical engineer and DPD representative at the pre-construction SITE MEETING. DAMAGE THAT MAY BE CAUSED BY GENERAL CONTRACTOR OR SUBCONTRACTOR TO ANY OF THE ABOVE MENTIONED SHALL BE REPAIRED BY HIM AND LEFT IN AS GOOD A CONDITION AS EXISTED PRIOR TO DAMAGING.

CONTRACTOR TO PROVIDE 8" OF TOP SOIL MIN AND HYDROSEED GRASS AT ALL IMPACTED AREAS OF SITE UNLESS NOTED OTHERWISE. TOPSOIL AND PLANTINGS MUST MEET

ALL FINAL SURFACE GRADING SHALL BE COMPLETED TO FACILITATE POSITIVE DRAINAGE AWAY FROM THE BUILDING UNLESS NOTED OTHERWISE.

### CONSTRUCTION DOCUMENTS

ALL TRADES SHALL REFER TO THE ARCHITECTURAL DRAWINGS REGARDING LOCATIONS OF WORK TO BE INSTALLED, INCLUDING FRAMING. ANY DISCREPANCY BETWEEN ARCHITECTRUAL AND STRUCTURAL SHALL BE REPORTED TO THE ARCHITECT BEFORE AFFECTED WORK CONTINUES.

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND JOB CONDITIONS RELATED TO THIS WORK. ALL DIMENSIONS SHALL BE CONSIDERED "NOMINAL" UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. DIMENSIONS ON LARGE SCALE DRAWINGS OR DETAILS WILL PREVAIL OVER SMALLER SCALED DRAWINGS. WRITTEN DIMENSIONS ARE DRAWN TO THE FACE OF FINISH, U.N.O. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT, PROVIDE ALL BUCKOUTS, BLOCKING, AND JACKS AS REQUIRED BY THE DRAWINGS AND OTHER TRADES. ANY DISCREPANCY IN DIMENSIONS SHALL BE REPORTED IN WRITING TO THE PROJECT MANAGER/ DESIGNER FOR CLARIFICATION, OR APPROVAL OF MODIFICATION BEFORE COMMENCING WORK. THE RESPONSIBILITY TO THE PROJECT MANAGER/DESIGNER, SHALL REST WITH THE CONTRACTOR OR ANY OTHER PERSON APPROVING SUCH A CHANGE.

UNLESS OTHERWISE NOTED, PROVIDE ALL MISCELLANEOUS FASTENERS, HARDWARE AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. EVEN THOUGH SUCH ITEMS MAY NOT HAVE BEEN SPECIFICALLY MENTIONED IN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT OF ANY REVISIONS OR ADDITIONAL INFORMATION OBTAINED FROM THE MANUFACTURER OF SPECIFIED MATERIALS OR EQUIPMENT WHICH MAY AFFECT THE CONTRACT TIME, COST OR QUALITY OF WORK.

### **WARRANTY**

all warranties or guarantees as to materials or workmanship on or with respect to the owner's work. Shall be contained in the contract or SUBCONTRACT WHICH SHALL BE SO WRITTEN THAT SUCH GUARANTEE OR WARRANTIES SHALL INSURE TO THE BENEFIT OF OWNER.

ALL WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF CERTIFICATE OF OCCUPANCY UNLESS SPECIFIED FOR A LONGER PERIOD OF TIME ON SPECIFIED ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING HIS OWN DEFECTIVE WORK AS WELL AS PAY ALL COSTS INCIDENTAL THERETO INCLUDING DAMAGE TO OTHER WORK, FURNISHINGS OR EQUIPMENT.

PRIOR TO THE COMMENCEMENT OF WORK THE GENERAL CONTRACTOR SHALL DELIVER TO THE OWNER CERTIFICATES OF INSURANCE FOR BOTH COMPREHENSIVE GENERAL LIABILITY AND WORKMAN'S COMPENSATION INCLUDING THE TOTAL AMOUNT OF COVERAGE AND CONDITIONS STIPULATED AND AGREED BY BOTH PARTIES.

### <u>PERMITTING</u>

THE OWNER SHALL BE RESPONSIBLE FOR PAYING FOR THE BUILDING PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED OR NECESSARY FOR THE COMPLETION OF THE WORK FROM THE RESPECTIVE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE GOVERNING AGENCIES AS REQUIRED FOR SITE INSPECTIONS.

### **GENERAL CONDITIONS**

THE GENERAL CONTRACTOR, ALL SUB-CONTRACTORS AND ALL MAJOR SUPPLIERS SHALL SUBMIT TO THE OWNER WITHIN 30 DAYS AFTER COMPLETION ALL "RELEASE OF LIENS" FOR ALL WORK PERFORMED PRIOR TO FINAL PAYMENT.

### PARTIAL LIEN WAIVERS TO BE SUBMITTED WITH MONTHLY REQUISITION.

AND ALL WORK DURING NORMAL WORKING HOURS.

ALL MANUFACTURERS AND/OR SUPPLIERS SHALL SUBMIT SHOP DRAWINGS AND/OR MATERIAL SAMPLES TO THE DESIGNER/OWNER FOR APPROVAL PRIOR TO FABRICATION. ALL OF THE GENERAL CONTRACTOR'S EQUIPMENT, SCAFFOLDING HOISTS, ETC., SHALL BE AVAILABLE TO THE OWNER/ DESIGNER AND THEIR STAFF FOR INSPECTION OF ANY

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DELIVERY POINTS, HOISTS LOCATIONS, ACCESS TO AND FROM THE SITE OF THE BUILDING AND UTILITY SERVICES. BID TO INCLUDE ALL NECESSARY AND REQUIRED PERMITS, LICENSES, FEES, BONDS AND INSURANCE - EVIDENCE OF WHICH MUST BE SUBMITTED TO OWNER/ DESIGNER PRIOR TO ANY CONSTRUCTION.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBCONTRACTORS WORKING AT JOB SITE AND FOR ALL COORDINATION OF WORK.

THE MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ALL EQUIPMENT WITH THE OTHER TRADES. THESE CONTRACTORS SHALL BE RESPONSIBLE FOR FINAL HOOK-UP OF ALL EQUIPMENT NOT FURNISHED BY THEM BUT REQUIRING THE SAME FOR FINAL COMPLETION.

GENERAL CONTRACTOR TO BE RESPONSIBLE FOR SECURITY OF ALL MATERIALS AT JOB SITE AND GENERAL SITE SECURITY UNTIL THE POINT OF FINAL ACCEPTANCE OF WORK BY

ANY SUBCONTRACTOR CUTTING INTO WORK ALREADY COMPLETED, CUTTING CHASES AND TRENCHES FOR THE INTRODUCTION OF HIS WORK AND EQUIPMENT IN THE BUILDING SHALL DO OR PAY FOR ALL BACK FILLING, REPARATION OF WALLS, FLOOR, ETC., DAMAGE BY SUCH A COMPANY. ALL REPAIRS SHALL MATCH EXISTING SURFACES.

### CONSTRUCTION SPECIFICATIONS

NO SUBSTITUTIONS ARE ALLOWED FOR MATERIALS WHERE SPECIFIC MANUFACTURERS ARE INDICATED, UNLESS APPROVED BY THE OWNER/ARCHITECT. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN WRITING PRIOR TO ORDERING MATERIALS OR COMMENCING WORK. SUCH REQUESTS SHALL INCLUDE THE DATE, SCOPE OF WORK, ANY ADDITIONAL COSTS TO THE OWNER, AND ANY ANTICIPATED DELAYS CAUSED BY SUCH CHANGES.

NO EXTRA WORK OR CHANGE SHALL BE MADE UNLESS A WRITTEN CHANGE ORDER IS SUBMITTED AND SIGNED BY THE OWNER AND ARCHITECT. THE ORDER SHALL STATE THAT THE OWNER HAS AUTHORIZED THE EXTRA WORK OR CHANGE, AND NO CLAIM FOR AN ADDITIONAL SUM SHALL BE VALID UNLESS SO OFFERED AS DESCRIBED ABOVE.

ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

WOOD SPECIFICATIONS TO CONFORM TO OUTLINE SPECIFICATIONS, FINISH SCHEDULE, STRUCTURAL PLANS, NOTES, AND GENERAL CONDITIONS.

CAULKING AND SEALANTS: INSTALLED SHALL BE GUARANTEED WATERTIGHT. EXTERIOR METAL WORK, INCLUDING WINDOWS AND DOOR FRAMES AND ALL JUNCTIONS BETWEEN MASONRY, CONCRETE AND METAL SHALL BE SEALED WITH NEOPRENE OR POLYURETHANE FILLER AND APPROVED SEALANT COMPOUNDS.

PROVIDE GALVANIC INSULATION BETWEEN ALL DISSIMILAR METALS.

PROVIDE WATERPROOFING MEMBRANE AND DIMPLE DRAINMAT AT ALL WALLS EXPOSED TO EARTH.

ALL PIPING AND CONDUIT UNDER SLAB SHALL BE A MINIMUM OF 2"-0' CLEAR OF UNDERSIDE OF FOOTING.

PROVIDE AND INSTALL INSULATION AT EXTERIOR WALLS, ROOF, FLOOR LOCATIONS AS SHOWN, SPECIFIED AND IN ACCORDANCE WITH MERCER ISLAND ENERGY CODE.

ALL INTERIOR WALLS SHALL BE INSULATED WITH SOUND ATTENUATING INSULATION

WATER PIPES TO BE INSULATED IN ALL UNHEATED AREAS.

INSULATE ALL ROUGH-IN PLUMBING IN WALLS, FLOORS, AND CEILINGS FOR SOUND TRANSMISSION



BATT INSULATION

RIGID INSULATION

FOAM INSULATION

GYPSUM WALLBOARD

NOT TO SCALE

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# WHOLE HOUSE VENTILATION CALC

			NUMBER OF BEDROOMS					
	DWELLING UNIT FLOOR AREA (square feet)	0 – 1	2 – 3	4 – 5	6 – 7	> 7		
		Airflow in CFM						
< 1,500		30	45	60	75	90		
1,501 – 3,000		45	60	75	90	105		
3,001 – 4,500		60	75	90	105	120		
4,501 – 6,000		75	90	105	120	135		
5,001 – 7,500		90	105	120	135	150		
> 7,500		105	120	135	150	165		

For SI: 1 square foot = 0.0929 m<sup>2</sup>, 1 cubic foot per minute = 0.0004719 m<sup>3</sup>/s.

RUN-TIME PERCENTAGE IN EACH 4-HOUR SEGMENT	25%	33%	50%	66%	75%	100%
Factor <sup>a</sup>	4	3	2	1.5	1.3	1.0

PROPOSED CONDITIONED SQUARE FOOTAGE = 2240.66 SF NUMBER OF BEDROOMS = 3 AIRFLOW IN CF REQUIRED FOR CONTINUOUS VENTILATION = 60 CFM RUNTIME PERCENTAGE IN EACH 4 HOUR SEGMENT = 66% FACTOR =1.5

CALC 60 CFM X 1.5 = **90CFM** 

HEAT RECOVERERY VENTILATOR SYSTEM TO BE INSTALLED TO PROVIDE REQUIRED VENTILATION WITH SENSIBLE HEAT RECOVERY OF .75

	Project Informatio	n	Cont	tact Information	
24	20 63RD AVE SE		RAIN CITY ARCHITECT		
ME	ERCER ISLAND, WA 98040		206 636 1163		
inc ado Pro	itructions: This single-family proporparate the minimum values ditional credits are checked as by the all information from the fonestration Requirements by Con	listed. Based o chosen by the llowing tables a	on the size of the structure, to permit applicant.  as building permit drawings: 1	he appropriate number of	
Au	thorized Representative Clin	t Bailey	Digitally signed by Clint Bailey Date: 2021.09.23 16:17:05 -07'00'	Date 09/23/2021	
		All Climate	e Zones (Table R402.1.1)		
			-Value a	U-Factor <sup>a</sup>	
Fei	nestration U-Factor <sup>b</sup>		n/a	0.30	
Sky	ylight U-Factor <sup>b</sup>		n/a	0.50	
Gla	azed Fenestration SHGC b,e		n/a	n/a	
Cei	iling <sup>e</sup>		49 <sup>j</sup>	0.026	
Wood Frame Wall <sup>g,h</sup>		21 int		0.056	
	or	30		0.029	
	low Grade Wall c,h	10/15/21 int + TB		0.042	
Sla	b d,f R-Value & Depth		10, 2 ft	n/a s installed in a cavity that is less	
	than the label or design thickness Table A101.4 shall not be less the The fenestration <i>U</i> -factor colume "10/15/21 +5TB" means R-10 co	es of the insulation the R-value some control of the R-val	on, the compressed R-value of specified in the table. ghts. tion on the exterior of the wall plus a thermal break between	the insulation from Appendix  or R-15 continuous insulation on the slab and the basement wall a	
	the interior of the basement wa means R-5 thermal break betwe	ll plus R-5 contir en floor slab an	nuous insulation on the interior descended basement wall.	r or exterior of the wall. "5TB"	
d	R-10 continuous insulation is red	quired under he	ated slab on grade floors. See S	Section R402.2.9.1.	
е	For single rafter- or joist-vaulted extends over the top plate of the	exterior wall	sulation may be reduced to R-3	8 if the full insulation depth	
f		alled over an exi existing slabs co	mplying with Section R503.1.1	ivalent to the required perimeter . If foam plastic is used, it shall	
g	For log structures developed in a climate zone 5 of ICC 400.	compliance with	Standard ICC 400, log walls sh		
	Int. (intermediate framing) deno framing 16 inches on center, 789 insulation.	tes framing and % of the wall cav	insulation as described in Sect vity insulated and headers insu	ion A103.2.2 including standard lated with a minimum of R-10	

2018 Washington State Energy Code – Residential
Prescriptive Energy Code Compliance for All Climate Zones in Washington
Single Family – New & Additions (effective February 1, 2021) 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 credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation. Small Dwelling Unit: 3 credits
 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.

Medium Dwelling Unit: 6 credits
All dwelling units that are not included in #1 or #3

Large Dwelling Unit: 7 credits
Dwelling units exceeding 5,000 sf of conditioned floor area

Additions less than 500 square feet: 1.5 credits
All other additions shall meet 1-3 above **Fuel Normalization Descriptions** 2 Heat pump<sup>c</sup> 3 Electric resistance heat only - furnace or zonal 4 DHP with zonal electric resistance per option 3.4 5 All other heating systems **Energy Credit Option Descriptions** energy option from each category d 1.2 Efficient Building Envelope 1.3 Efficient Building Envelope 1.4 Efficient Building Envelope 1.5 Efficient Building Envelope 1.6 Efficient Building Envelope 1.7 Efficient Building Envelope 2.1 Air Leakage Control and Efficient Ventilation 2.2 Air Leakage Control and Efficient Ventilation 2.3 Air Leakage Control and Efficient Ventilation 2.4 Air Leakage Control and Efficient Ventilation 3.1° High Efficiency HVAC 3.2 High Efficiency HVAC 3.3ª High Efficiency HVAC 3.4 High Efficiency HVAC 3.5 High Efficiency HVAC 3.6<sup>a</sup> High Efficiency HVAC 4.1 High Efficiency HVAC Distribution System 4.2 High Efficiency HVAC Distribution System

Energy Credit Option Descriptions (cont.)    Credits - select ONE energy option from each category d   S.1d   Efficient Water Heating   0.5			Si	ummary of Tabl	e R406 2 (co	nt )		
5.1d Efficient Water Heating  5.2 Efficient Water Heating  5.3 Efficient Water Heating  5.4 Efficient Water Heating  5.5 Efficient Water Heating  5.6 Efficient Water Heating  5.6 Efficient Water Heating  5.7 Lapliance Package  Total Credits  1.0 LEAR FORM  7.1 Appliance Package  Total Credits  1.5 CLEAR FORM  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.  Equipment listed in Table C403.3.2(4) or C403.3.2(5)  Equipment listed in Table C403.3.2(1) or C403.3.2(2)  4. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be com 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.					Credits - s energy op	elect ONE tion from	User N	otes
5.3 Efficient Water Heating  5.4 Efficient Water Heating  5.5 Efficient Water Heating  5.6 Efficient Water Heating  6.1e Renewable Electric Energy (3 credits max)  7.1 Appliance Package  Total Credits  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)  4. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be com 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.	5.1 <sup>d</sup>	Efficient	Water Heating					
5.4 Efficient Water Heating  5.5 Efficient Water Heating  5.6 Efficient Water Heating  6.1° Renewable Electric Energy (3 credits max)  7.1 Appliance Package  Total Credits  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 com 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.	5.2	Efficient	: Water Heating					
5.5 Efficient Water Heating  5.6 Efficient Water Heating  6.1° Renewable Electric Energy (3 credits max)  7.1 Appliance Package  7.1 Appliance Package  7.2 Total Credits  8. 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.  8. Equipment listed in Table C403.3.2(4) or C403.3.2(5)  9. Equipment listed in Table C403.3.2(1) or C403.3.2(2)  10. Credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max.	5.3	Efficient	Water Heating		1.0			
5.6 Efficient Water Heating  6.1e Renewable Electric Energy (3 credits max)  7.1 Appliance Package  Total Credits  1.0 LEAR 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 com 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.	5.4	Efficient	Water Heating		1.5			
6.1° Renewable Electric Energy (3 credits max)  7.1 Appliance Package  Total Credits  1.5 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 com 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.		Efficient	Water Heating		2.0			
7.1 Appliance Package  Total Credits  1.5 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)  4. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be com 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.	5.6				2.5			
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 com 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.		Renewal	ble Electric Energy (3 credits	s max)	1.0			
<ul> <li>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.</li> <li>b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)</li> <li>c. Equipment listed in Table C403.3.2(1) or C403.3.2(2)</li> <li>d. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be com with options 5.2 through 5.6. See Table 406.3.</li> <li>e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max.</li> </ul>	7.1	Applianc	ce Package		0.5			
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)  You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be com 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.				Total Credit	s	1.5	CLEAR FORM	
	c. Eq d. Yo wi e. 1.0	h options! credit for	ted in Table C403.3.2(1) or elect more than one option 5.2 through 5.6. See Table 4 each 1,200 kWh of electrica	C403.3.2(2) I from any categ 406.3. If generation pro	ovided annua	illy, up to 3 cr		be com
	c. Eq d. Yo wi e. 1.0	h options! credit for	ted in Table C403.3.2(1) or elect more than one option 5.2 through 5.6. See Table 4 each 1,200 kWh of electrica	C403.3.2(2) I from any categ 406.3. If generation pro	ovided annua	illy, up to 3 cr		be com
	c. Eq d. Yo wi e. 1.0	h options! credit for	ted in Table C403.3.2(1) or elect more than one option 5.2 through 5.6. See Table 4 each 1,200 kWh of electrica	C403.3.2(2) I from any categ 406.3. If generation pro	ovided annua	illy, up to 3 cr		be com

2018 Washington State Energy Code-R

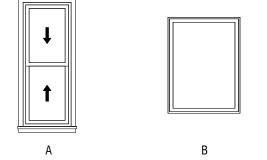
ENERGY CODE SUMMARY

CREDITS REQUIRED: 1.5 (ADDITIONS LESS THAN 500 SF)

HEATING OPTIONS: COMBUSTION HEATING MINIMUM NAECA 0.0 CREDITS ENERGY OPTIONS SELECTED: 2.3 AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 1.5 CREDITS

2.3 : COMPLIANCE BASED ON SECTION R402.4.1.2: REDUCE THE TESTED AIR LEAKAGE TO 1.5 AIR CHANGES PER HOUR MAXIMUM AT 50 PASCALS AND ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION M1507.3 OF THE INTERNATIONAL RESIDENTIAL CODE OR SECTION 403.8 OF THE INTERNATIONAL MECHANICAL CODE SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF .75

WINDOW SCHEDULE									
PLAN ID	TYPE	QTY.	WIDTH (ft)	HEIGHT (ft)	HEAD HT	UNIT AREA (sf)	U VALUE	UA	NOTES
12A	Α	1	4' - O"	3' - 8"	6' - 8"	15 SF	0.3	4 SF	1
12B	Α	1	2' - 11"	5' - 2"	6' - 8"	15 SF	0.3	5 SF	1
12C	Α	1	2' - 11"	5' - 2"	6' - 8"	15 SF	0.3	5 SF	1
13A	А	1	2' - 0"	3' - 0"	6' - 8"	6 SF	0.3	2 SF	1,2
14A	А	1	3' - 1"	5' - 2"	6' - 8"	16 SF	0.3	5 SF	1,2
15A	А	1	2' - 9 3/4"	6' - 4 1/2"	7' - 10 1/2"	18 SF	0.3	5 SF	1
15B	А	1	2' - 9 3/4"	6' - 4 1/2"	7' - 10 1/2"	18 SF	0.3	5 SF	1
15C	А	1	2' - 9 3/4"	6' - 4 1/2"	7' - 10 1/2"	18 SF	0.3	5 SF	1
15D	А	1	2' - 9 3/4"	6' - 4 1/2"	7' - 10 1/2"	18 SF	0.3	5 SF	1
15E	А	1	2' - 9 3/4"	6' - 4 1/2"	7' - 10 1/2"	18 SF	0.3	5 SF	1
15F	А	1	2' - 9 3/4"	6' - 4 1/2"	7' - 10 1/2"	18 SF	0.3	5 SF	1
15G	А	1	2' - 9 3/4"	6' - 4 1/2"	7' - 10 1/2"	18 SF	0.3	5 SF	1
15H	А	1	2' - 9 3/4"	6' - 4 1/2"	7' - 10 1/2"	18 SF	0.3	5 SF	1
17A	В	1	1' - 9 31/32"	2' - 2 1/2"	7' - 1 9/16"	4 SF	0.3	1 SF	3
17B	В	1	3' - 7 11/16"	2' - 2 1/2"	7' - 1 9/16"	8 SF	0.3	2 SF	3
17C	В	1	1' - 9 31/32"	2' - 2 1/2"	7' - 1 9/16"	4 SF	0.3	1 SF	3



WINDOW TYPES

1/4" = 1'-0"

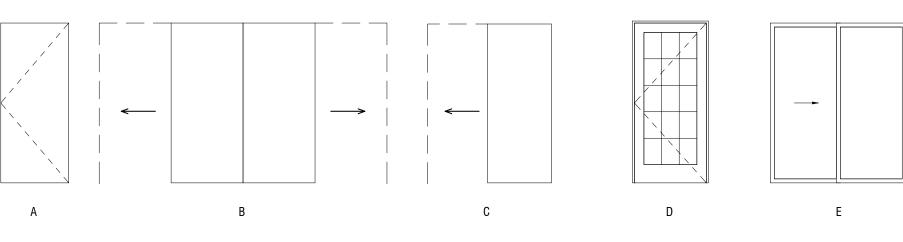
3. NEW WINDOW IN EXISTING OPENING, CONTRACTOR TO VERIFY SIZE IN FIELD

1. ALL WINDOW HEADERS SHALL BE INSULATED WITH A MIN OF R-10 INSULATION

2. Tempered Safety Glazing Required

DOOR	SCHE	DULE						
PLAN ID	TYPE	QTY.	WIDTH (ft.)	HEIGHT (ft.)	AREA (sf.)	U VALUE	UA	NOTES
12A	D	1	3' - 0"	6' - 8"	20 SF	0.3	6 SF	1,2
12B	В	1	6' - 0"	6' - 8"	40 SF			
13A	С	1	2' - 6"	6' - 8"	17 SF			
14A	D	1	3' - 0"	6' - 8"	20 SF	0.3	6 SF	1,2
14B	Α	1	3' - 0"	6' - 11 3/4"	21 SF			
15A	E	1	6' - 0"	7' - 10 1/2"	47 SF	0.3	14 SF	1,2

1. All glazing in door to be tempered 2. ALL EXTERIOR DOOR HEADERS SHALL BE INSULATED WITH A MIN OF R-10 INSULATION



DOOR TYPES

1/4" = 1'-0"

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PERMIT SET



REGISTERED ARCHITECT

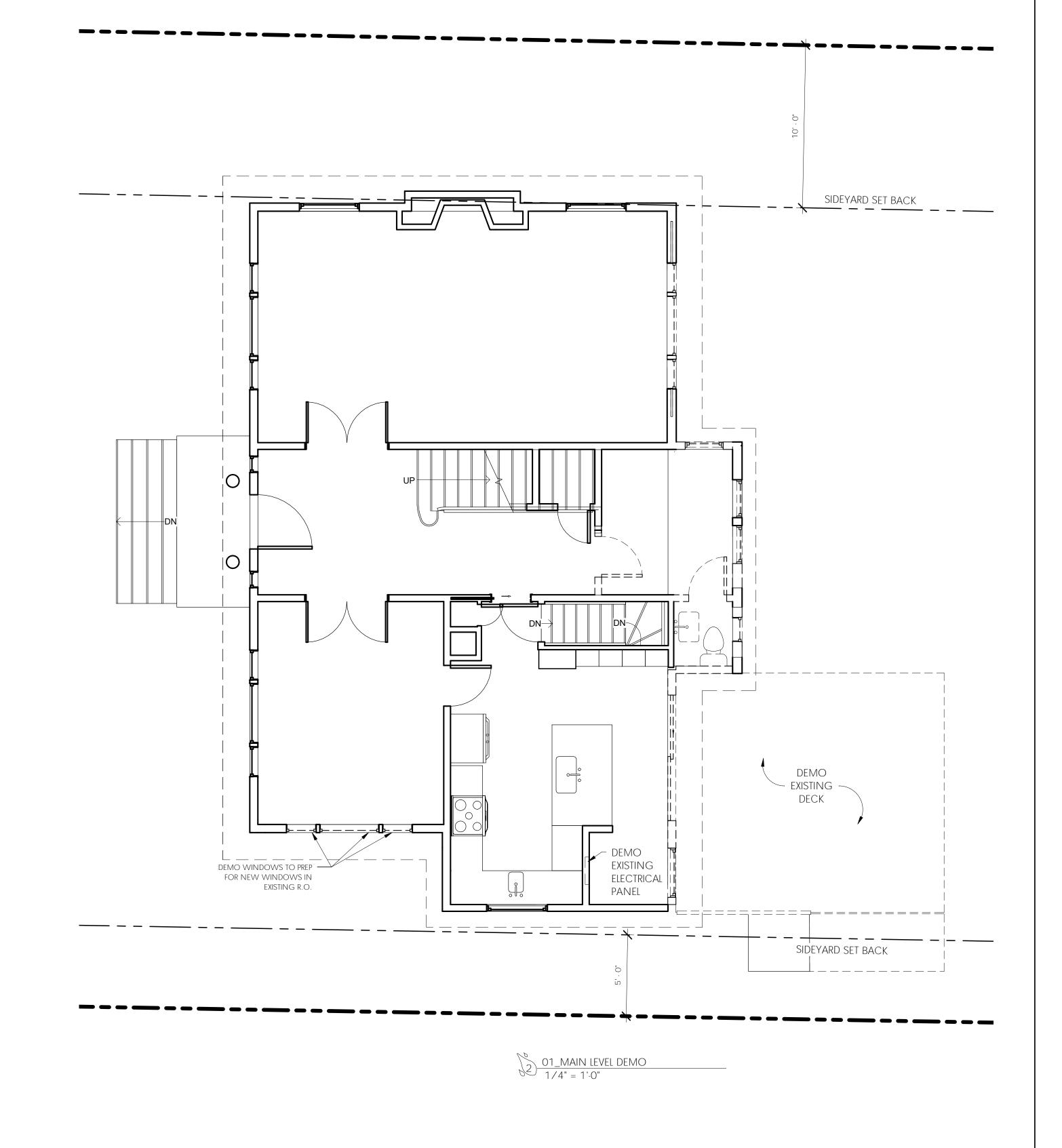
STATE OF WASHINGTON

DOOR AND WINDOW SCHEDULES AND ENERGY CODE WORKSHEET

REVISIONS







# DETECTOR SMOKE DETECTOR SMOKE/CARBON MONOXIDE EXISTING TO REMAIN EXISTING TO REMAIN TO BE REMOVED 1. ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING AT EXT. FACE OF WALL AND TO FACE OF FINISH (5/8\* GWB ASSUMED) AT INT. FACE OF WALL, U.N.O. 2. ALL DIMENSIONS AT INTERIOR ALLS TO FACE OF FINISH (5/8\* GWB ASSUMED AT EA. SIDE OF WALL), U.N.O. 1. HOUR RATED ASSEMBLY 3. ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O. 4. ALL NEW WOOD HEADERS SHALL BE (2) 2X8 U.N.O., INSULATE HEADERS TO R-10 MIN

J

REGISTERED ARCHITECT

STATE OF WASHINGTON

D1.0

MERCER ISLAND, WA

DEMO MAIN

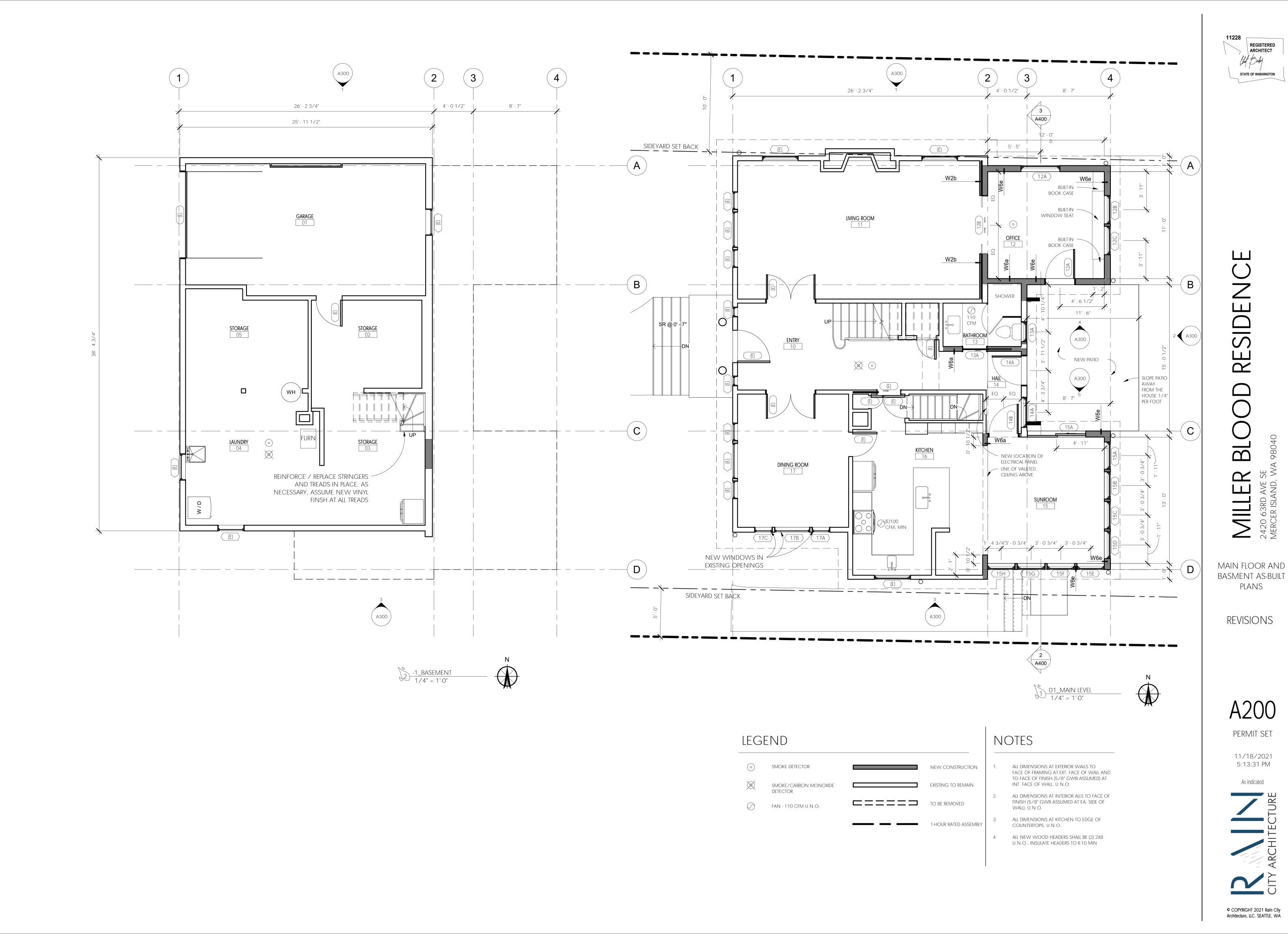
FLOOR

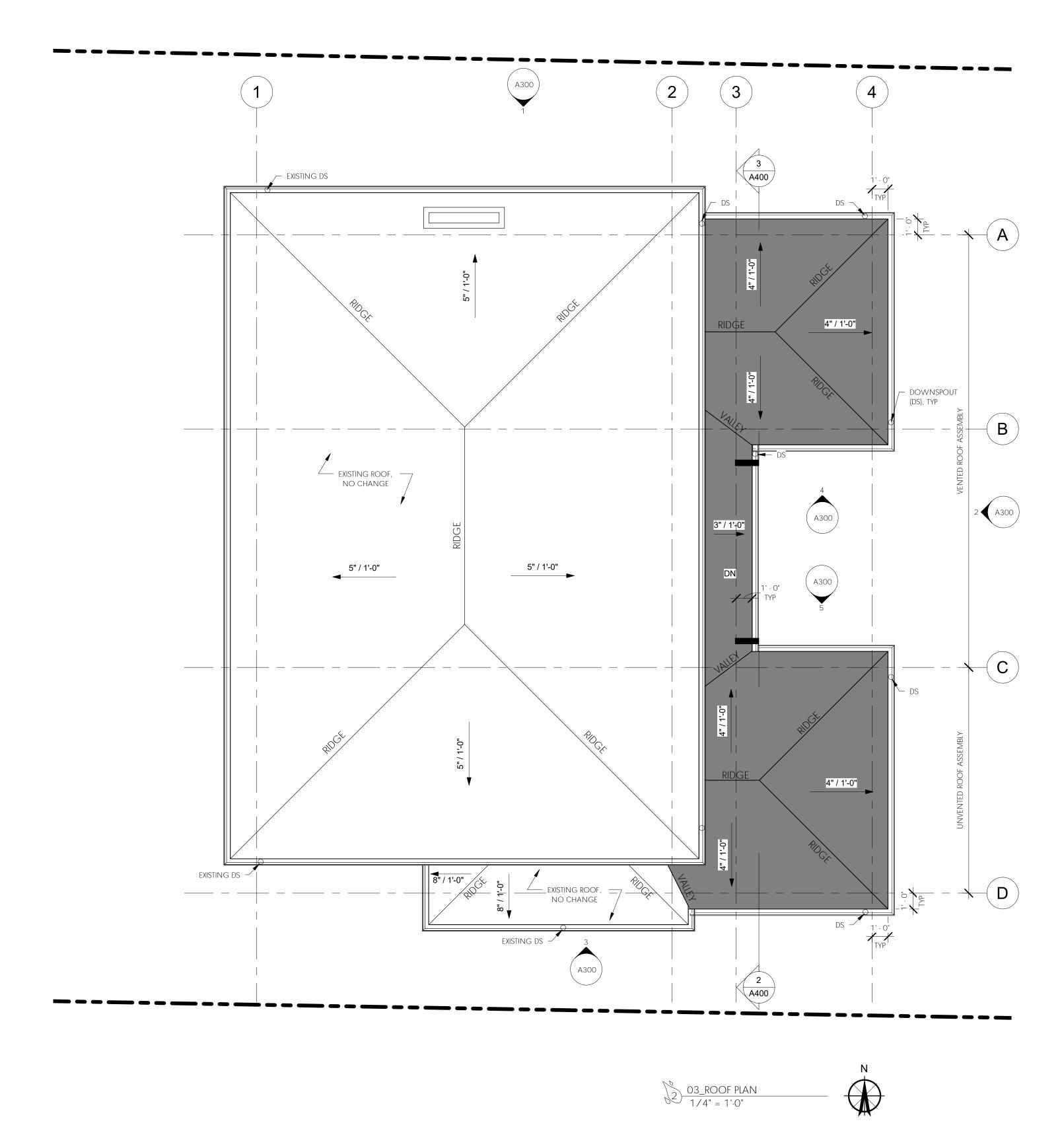
REVISIONS

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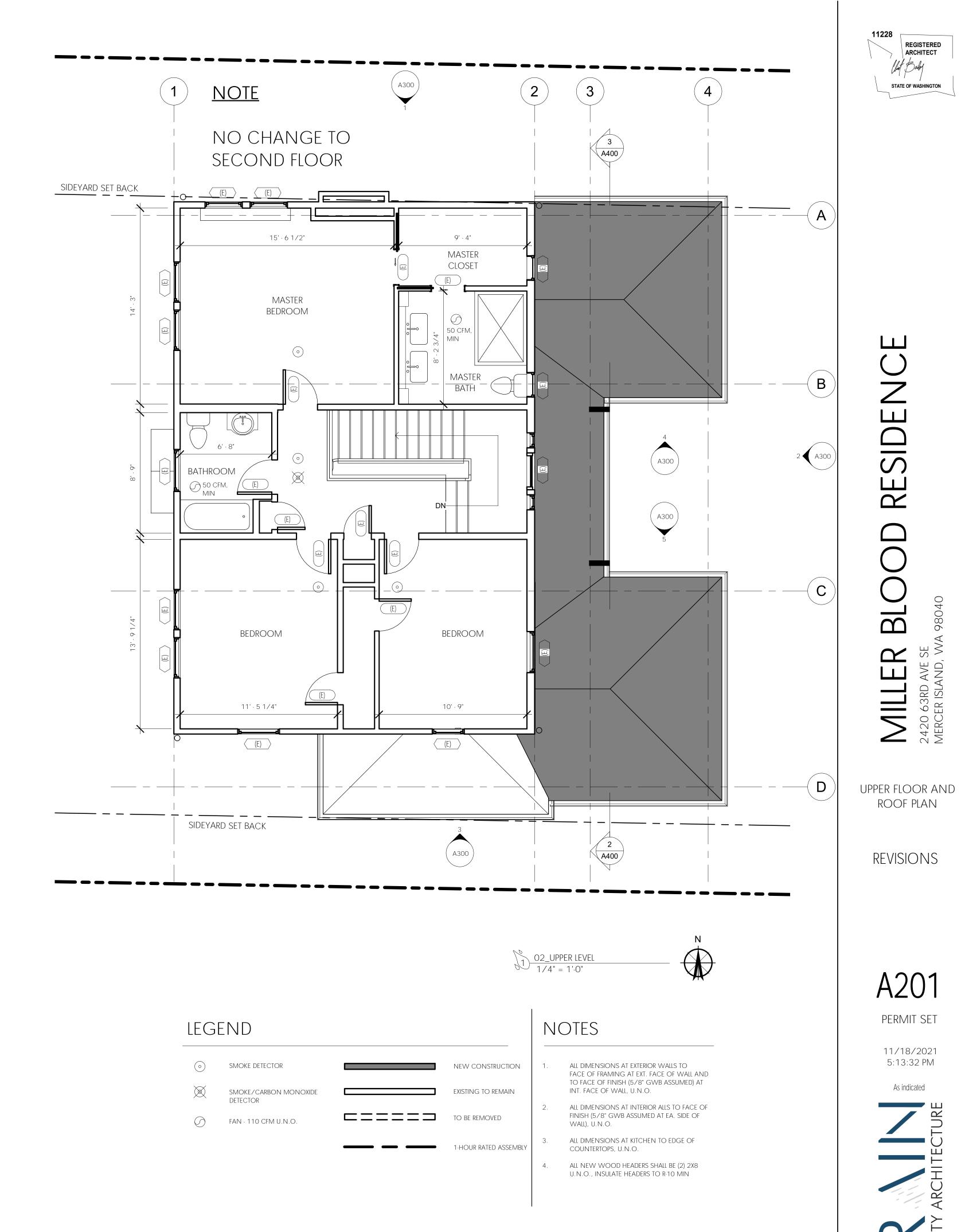


# ROOF VENTILATION CALCULATION

REQUIRED VENTILATION = 1/150 OF TOTAL AREA, PER R806.2

NEW VENTED ROOF AREA = 203.83 SF REQUIRED VENTILATION = 1.36 SF OF VENTILATION

PROPOSED VENTILATION = VERSA VENT AT ROOF TO WALL CONDITION = 8.5 SQ IN PER LF X 15.5625 LF = .91862 SF COR A VENT RAFT-A-VENT AT SOFFIT CONIDTIONS = 10 SQ IN PER LF X 48.646 LF = 3.38 SF VERSA VENT AT RIDGE CONDITIONS = 8.5 SQ IN PER LF X 26.39 LF = 1.56 SF TOTAL PROPOSED VENTILATION = 5.86 SF



REGISTERED ARCHITECT

As indicated

REGISTERED ARCHITECT

STATE OF WASHINGTON



EXTERIOR

ELEVATIONS

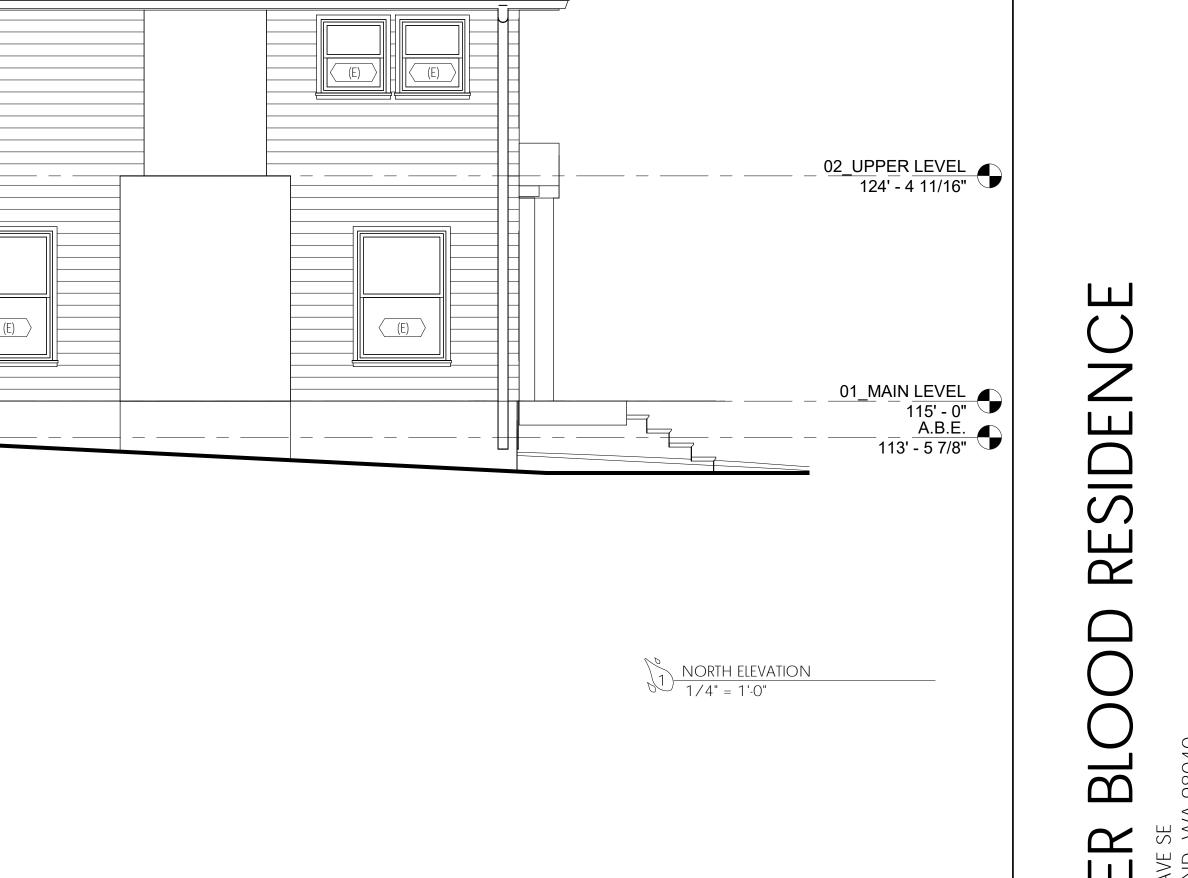
REVISIONS

PERMIT SET

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1/4" = 1'-0"

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EXISTING BLOCK AND STUCCO CHIMNEY

existing asphalt shingle — ROOF TO REMAIN

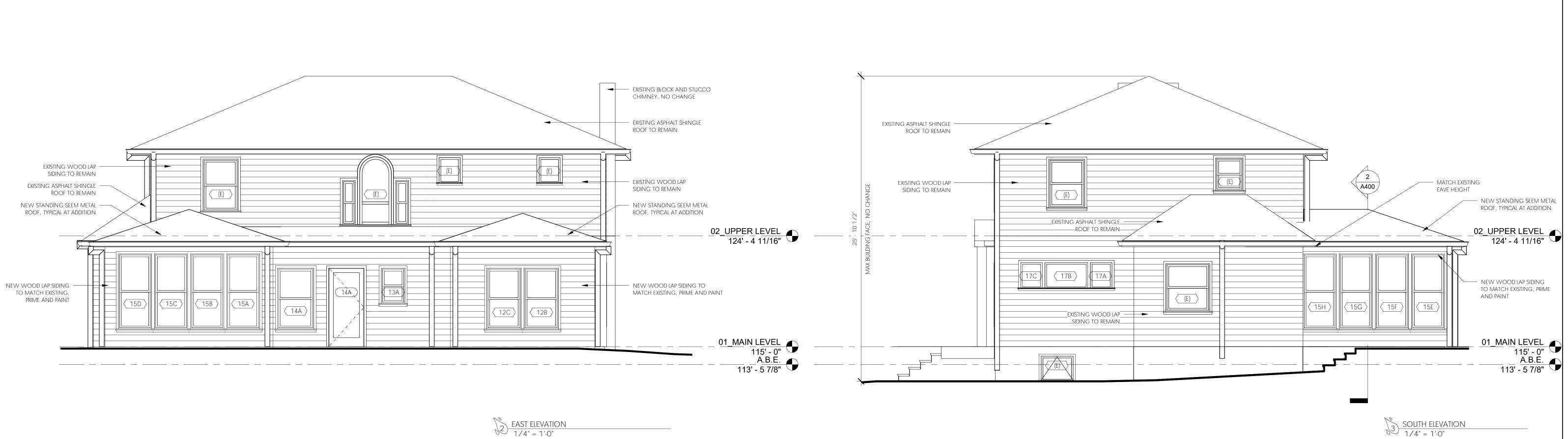
existing wood lap — siding to remain

3 A400

(12A)

NEW STANDING SEEM METAL ---ROOF, TYPICAL AT ADDITION

NEW WOOD LAP SIDING TO MATCH — EXISTING, PRIME AND PAINT



EAST ELEVATION 1/4" = 1'-0"

NEW STANDING SEEM METAL ROOF, TYPICAL AT ADDITION

NEW WOOD LAP SIDING TO MATCH EXISTING, PRIME AND PAINT

OFFICE - SOUTH

1/4" = 1'-0"

02\_UPPER\_LEVEL 124' - 4 11/16"

\_\_01\_MAIN\_LEVEL\_\_\_\_115' - 0"

NEW STANDING SEEM METAL —— ROOF, TYPICAL AT ADDITION

NEW WOOD LAP SIDING TO  $-\!-\!-$ 

MATCH EXISTING, PRIME AND PAINT

02\_UPPER LEVEL 124' - 4 11/16"

01\_MAIN LEVEL 115' - 0"

(15A)

---

5 SUNROOM - NORTH 1/4" = 1'-0"

01\_MAIN LEVEL 115' - 0"

02\_UPPER LEVEL 124' - 4 11/16"

\_01\_MAIN LEVEL 115' - 0"

— R-10 INSULATED HEADER, MIN

 $\frac{\text{SUNROOM SECTION}}{1/2" = 1'-0"}$ 

OFFICE SECTION

1/2" = 1'-0"

A.B.E.

NEW STANDING SEAM — METAL ROOF

R-38 MIN CLOSED CELL —— SPRAY FOAM INSULATION

HEADER PER STRUCT ----

R-21 INSULATION, MIN —

SOFFIT VENT, SEE — CALCS ON A201

R-21 INSULATION, MIN —

NEW WOOD SIDING TO MATCH — EXISTING, PRIMED AND PAINTED

NEW WOOD SIDING TO MATCH — EXISTING, PRIMED AND PAINTED

(15G)

TOUNGE AND GROOVE WOOD CEILING

— Insulate Headers Typ, R-10 Min

NEW RIDGE VENT, — SEE CALCS ON A201

HEAT RECOVERY — VENTILATION SYSTEM

> NEW STANDING — SEAM ROOF

> > OFFICE 12

R-49 INSULATION MIN

REGISTERED ARCHITECT

5:13:34 PM As indicated



### General Structural Notes

# CRITERIA

- 1. ALL MATERIALS. WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE 12. DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE 26. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON: DRAWINGS. SPECIFICATIONS. AND THE INTERNATIONAL BUILDING CODE (2018) EDITION).
- DESIGN LOADING CRITERIA: RESIDENTIAL - ONE AND TWO-FAMILY DWELLINGS SNOW . . . . . . Ce=1.0, Is=1.0, Ct=1.1, Cs=1.0, Pg=25 PSF, Pf=20 PSF WIND . . . . . GCpi=0.18, 100 MPH, RISK CATEGORY II, EXPOSURE "B" EARTHQUAKE . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS, SITE CLASS=D, Ss=1. 40, Sds=1. 12, S1=0. 49, SD1=0. 59, Cs=0. 172
- 3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.

SDC D (DEFAULT), Ie=1.0, R=6.5

- 4. PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS. BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
- CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN. SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED. SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 9. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, PREPARED BY THE SUPPLIER.

### **GEOTECHNICAL**

10. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS 22. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH OR COMPACTED STRUCTURAL FILL AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY: THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

SOILS REPORT REFERENCE:

FOUNDATION & CRITICAL AREA CONSIDERATIONS JN 21452 2420 63RD AVE SE

MERCER ISLAND, WA PREPARED BY

GEOTECH CONSULTANTS INC. ON NOV 11, 2021

11. PIN PILES SHOWN ON THE PLAN SHALL BE 2" DIAMETER EXTRA-STRONG, GRADE A, GALVANIZED, UNLESS OTHERWISE NOTED. THE MAXIMUM CAPACITY OF 2" PILES SHALL BE 3 TONS. ALL PILES SHALL BE DRIVEN TO REFUSAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AS A MINIMUM, PILE REFUSAL SHALL BE DEFINED AS 1 INCH OF PENETRATION IN 60 SECONDS DURING CONTINUOUS DRIVING OF A 90 LB JACK HAMMER UNDER THE FULL WEIGHT AND EFFORT OF THE OPERATOR. PILES USED IN COMMON TO RESIST LATERAL EARTH PRESSURES SHALL HAVE THE ADDITIONAL THE MAXIMUM PILE ECCENTRICITY SHALL BE 2 INCHES. GEOTECHNICAL SPECIAL INSPECTION SHALL BE SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SEE PLANS FOR OTHER SIZES AND CRITERIA.

### **RENOVATION**

- COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF.
- 13. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND 27. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, FY = 50 KSI. OTHER ROLLED MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF EXISTING CONDITIONS DETERMINED DURING WORK VARY FROM THE EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS.
- 14. CONTRACTOR SHALL CHECK FOR DRY ROT AT ALL AREAS OF NEW WORK. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

### CONCRETE

- I5. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 30. SHOP PRIME ALL STEEL EXCEPT: SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS f'c = 2,500
- 16. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260. C494. AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14, TABLE 19.3.2.1 MODERATE EXPOSURE, F1.
- 17. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1). GRADE 60, FY = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, FY = 60,000 PSI.
- 18. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315R-18 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-O" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-O" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

19. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) . . . . . 2 FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER). . 1-1/2" SLABS AND WALLS (INT. FACE). . . GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4"

20. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED

6" WALLS	#4 @ 16 HORIZ.	#4 @ 18 VERTICAL	1 CURTAIN
8" WALLS	#4 @ 12 HORIZ.	#4 @ 18 VERTICAL	1 CURTAIN
10" WALLS	#4 @ 18 HORIZ.	#4 @ 18 VERTICAL	2 CURTAINS
12" WALLS	#4 @ 16 HORIZ.	#4 @ 18 VERTICAL	2 CURTAINS

- DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS 21. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND
  - BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED ON WHICH IT IS PLACED (3000 PSI MINIMUM).

# **ANCHORAGE**

- 23. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.
- 24. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "AT-XP" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH IAMPO REPORT NO. ER-0281. MINIMUM BASE MATERIAL TEMPERATURE IS 14 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.
- REQUIREMENT OF BEING EMBEDDED A MINIMUM OF 10 FEET BELOW RETAINED GRADE. 25. CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE). NO. ESR-1056 (CMU). INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED.

### THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

- A. AISC 360-16 AND SECTION 2205. 2 OF THE INTERNATIONAL BUILDING CODE. B. JUNE 15, 2016 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AMENDED AS FOLLOWS: AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1 C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
- SHAPES INCLUDING PLATES, SHALL CONFORM TO ASTM A36, FY = 36 KSI. STEEL PIPE SHALL CONFORM TO ASTM A-53, TYPE E OR S, GRADE B, Fy = 35 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE C, FY = 46 KSI (ROUND), FY = 50 KSI (SQUARE AND RECTANGULAR). CONNECTION BOLTS SHALL CONFORM TO ASTM A307.
- 28. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- 29. ALL STEEL EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE CORROSION PROTECTED BY GALVANIZATION OR PROVIDED WITH EXTERIOR PAINT SYSTEM, UNLESS OTHERWISE NOTED.

A. STEEL ENCASED IN CONCRETE. B. SURFACES TO BE WELDED.

C. CONTACT SURFACES AT HIGH-STRENGTH BOLTS.

D. MEMBERS TO BE GALVANIZED.

G. SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

E. MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES. F. SURFACES TO RECEIVE SPRAYED FIREPROOFING.

31. ALL A-325N CONNECTION BOLTS NEED ONLY BE TIGHTENED TO A SNUG TIGHT CONDITION, DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT

WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH.

32. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT - LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

33. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD No. 17. GRADING RULES FOR WEST COAST LUMBER, 2018, OR WWPA STANDARD, WESTERN LUMBER GRADING RULES 2017. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

	JOISTS AND BEAMS	(2X & 3X MEMBERS)	HEM-FIR NO. 2 MINIMUM BASE VALUE, Fb = 850 PSI
		(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1000 PSI
)	BEAMS	(INCL. 6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI
	POSTS	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc = 1350 PSI
		(6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc = 1000 PSI
)	STUDS, PLAT	TES & MISC. FRAMING:	DOUGLAS FIR-LARCH NO. 2 OR HEM-FIR NO. 2

- OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL 34. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb = 2,400 PSI, Fv =265 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2400 PSI, Fv = 265 PSI.
- RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL 35. MANUFACTURED LUMBER, PSL, LVL, AND LSL SHOWN ON PLAN ARE BASED PRODUCTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES REPORT ESR-1387. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSIPSL (2.0E WS) LVL (2.0E-2600FB WS) Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI LSL (1.55E) Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI

ALTERNATE MANUFACTURED LUMBER MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS, OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.

MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%. EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE.

36. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, 42. NOTCHES AND HOLES IN WOOD FRAMING EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS. EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.

FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

- 37. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.
- 38. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AWPA UC4A. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B.
- 39. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE

WOOD TREATMENT HAS NO AMMONIA CARRIER CONTAINS AMMONIA CARRIER	CONDITION INTERIOR DRY INTERIOR DRY	PROTECTION G90 GALVANIZED G185 OR A185 HOT DIPPED OF CONTINUOUS HOT-GALVANIZED PER ASTM A653
CONTAINS AMMONIA CARRIER CONTAINS AMMONIA CARRIER AZCA	INTERIOR WET EXTERIOR ANY	TYPE 304 OR 316 STAINLESS TYPE 304 OR 316 STAINLESS TYPE 304 OR 316 STAINLESS

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

40. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS. PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED.

### 41. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
6d	2"	0. 113"
8d	2-1/2"	0. 131"
10d	3"	0. 148"
12d	3-1/4"	0. 148"
16d B0X	3-1/2"	0. 135"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

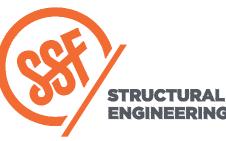
- A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.
- B. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
- C. NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE
- 43. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE
- A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304. 10. 1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
- B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS, AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

ALL WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d @ 12" O.C.. LAP TOP PLATES AT JOINTS A MINIMUM 4'-0" AND NAIL WITH TWELVE 16d NAILS @ 4" O.C. EACH SIDE JOINT.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH TWO ROWS OF 16d @12 ON-CENTER. UNLESS OTHERWISE NOTED, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH NO. 6 X 1-1/4 TYPE S OR W SCREWS @ 8" ON-CENTER. UNLESS INDICATED OTHERWISE, 1/2 (NOMINAL)APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES) AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

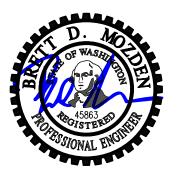
C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING BETWEEN RAFTERS AND JOISTS AT ALL BEARING POINTS WITH A MINIMUM OF (3) 16d TOE NAILS EACH END. TOE-NAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6 ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER, MINIMUM TWO NAILS PER BLOCK, UNLESS OTHERWISE NOTED.



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DESIGN:	DMR
DRAWN:	NHD / ABH
CHECKED:	BDM
APPROVED:	RDM

REVISIONS:					
·					

PROJECT TITLE:

2420 63rd Ave SE Mercer Island, WA 98040

Miller Blood Residence

Rain City Architecture

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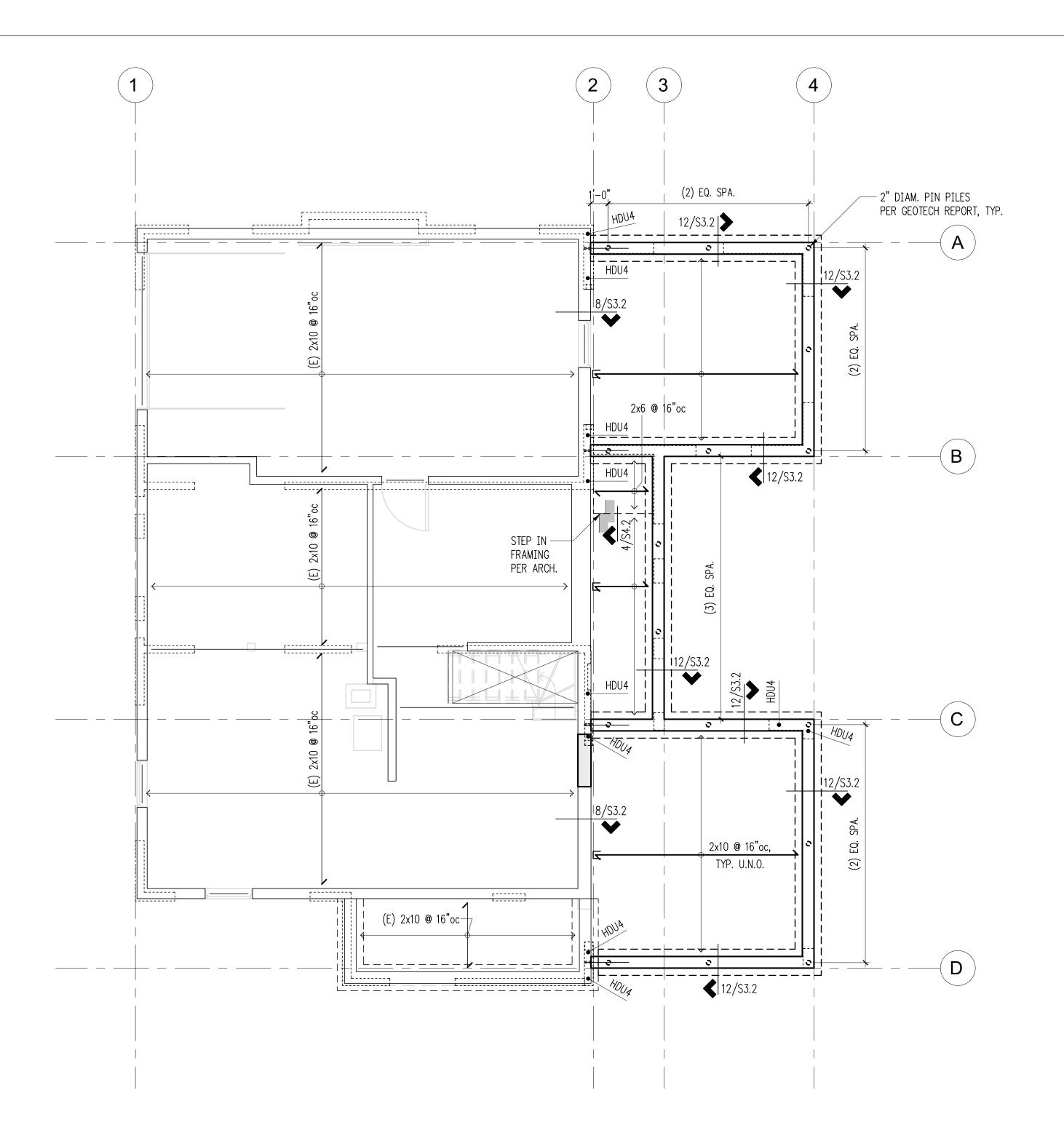
PH 206.636.1163

**PERMIT** 

General Structural Notes

DATE:

November 17, 2021 PROJECT NO: 11947-2021-02



Plan Notes

AND @ 12"oc IN FIELD.

COLUMN CONNECTIONS U.O.N.

LENGTH, U.O.N.

1. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

NOTIFY ARCHITECT AND ENGINEER IF DIFFERENT.

CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.

8. PROVIDE BLOCKING/BRIDGING @ 8'-0"oc IN NEW FLOOR FRAMING

2. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

3. EXISTING FRAMING ON PLANS IS ASSUMED. CONTRACTOR TO VERIFY DIRECTIONS AND EXTENTS.

4. THE BOTTOM OF ALL NEW EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW EXTERIOR GRADE.

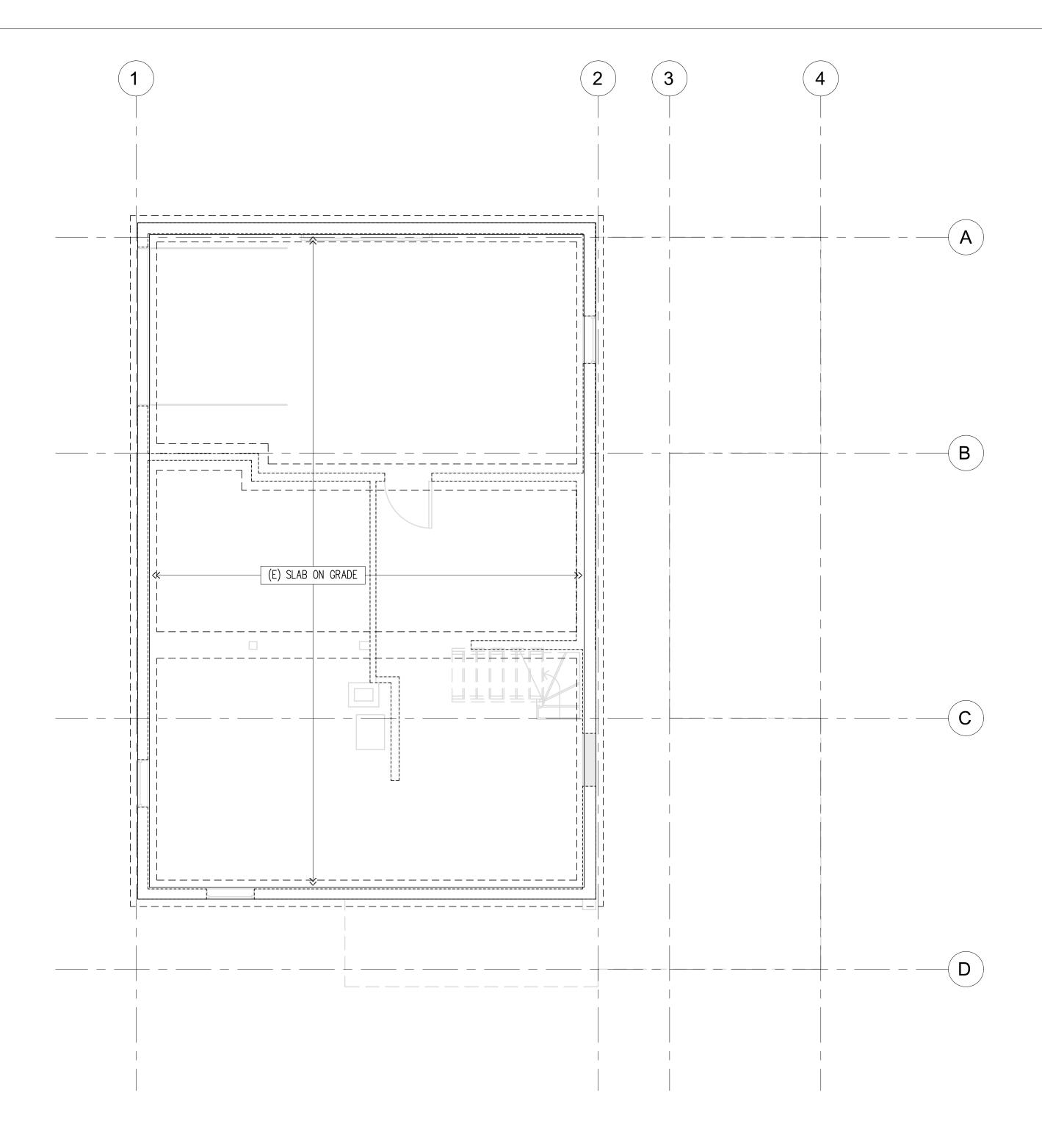
5. ALL NEW POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL

RATED PLYWOOD OVER JOISTS PER PLAN, FACE GRAIN PERPENDICULAR TO JOISTS, U.O.N.
7. NAIL NEW FLOOR SHEATHING W/ 8d @ 6"oc AT FRAMED PANEL EDGES AND OVER SHEARWALLS,

9. PROVIDE (2) BEARING STUDS AT EACH END OF ALL NEW HEADERS AND BEAMS OVER 3'-0" IN

10. PROVIDE AC, ACE, PC, EPC, LPC, OR LCE COLUMN CAP AND BASE AT ALL NEW BEAM TO

6. TYPICAL NEW FLOOR FRAMING CONSISTS OF FLOORING PER ARCHITECT OVER 3/4" T&G APA



Main	Floor	Framing	Plan
/ <b>*</b> \UIII	1 1001	I I MIIIIII I M	IIMII

	Scale: $\frac{1}{4}$ " = 1'-0"
Legend	
	NEW STRUCTURAL WALL OR POST BELOW
	NEW STRUCTURAL WALL OR POST ABOVE
[]	EXISTING STRUCTURAL WALL OR POST ABOVE
	NON-STRUCTURAL WALL BELOW
	EXISTING WALL OR POST BELOW
	EXISTING STEM WALL & FOOTING
	NEW STEM WALL & FOOTING
Wx	SHEARWALL PER 12/S4.1
	SPAN DIRECTION
$\longleftrightarrow\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	EXTENT OF JOISTS
	NEW HEADER/BEAM PER PLAN
	EXISTING HEADER/BEAM
•XX	HOLDOWN PER 12/S3.1
0	2"Ø PIN PILES PER GEOTECH REPORT

CHANGE IN ELEVATION

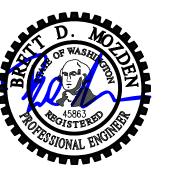
		Foundation Plan
Plan Notes	Legend	Scale: 1/4" = 1'-0"
1. NO WORK THIS LEVEL.	[]	NEW STRUCTURAL WALL OR POST ABOVE
<ol> <li>REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.</li> <li>DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.</li> </ol>	[]	EXISTING STRUCTURAL WALL OR POST ABOVE
<ol> <li>EXISTING FRAMING ON PLANS IS ASSUMED. CONTRACTOR TO VERIFY DIRECTIONS AND EXTENTS. NOTIFY ARCHITECT AND ENGINEER IF DIFFERENT.</li> </ol>		EXISTING STEM WALL & FOOTING



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DESIGN:	
DESIGN.	DMR
DRAWN:	NHD / ABH
CHECKED:	BDM
APPROVED:	BDM

REVISIO	NS:	

PROJECT TITLE:

Miller Blood Residence

2420 63rd Ave SE Mercer Island, WA 98040

Rain City Architecture clint@raincityarchitecture.com

PH 206.636.1163

DEDMI

PERMIT

Main Floor
Framing and
Foundation Plans

1/4" = 1'-0" U.N.O.

DATE:

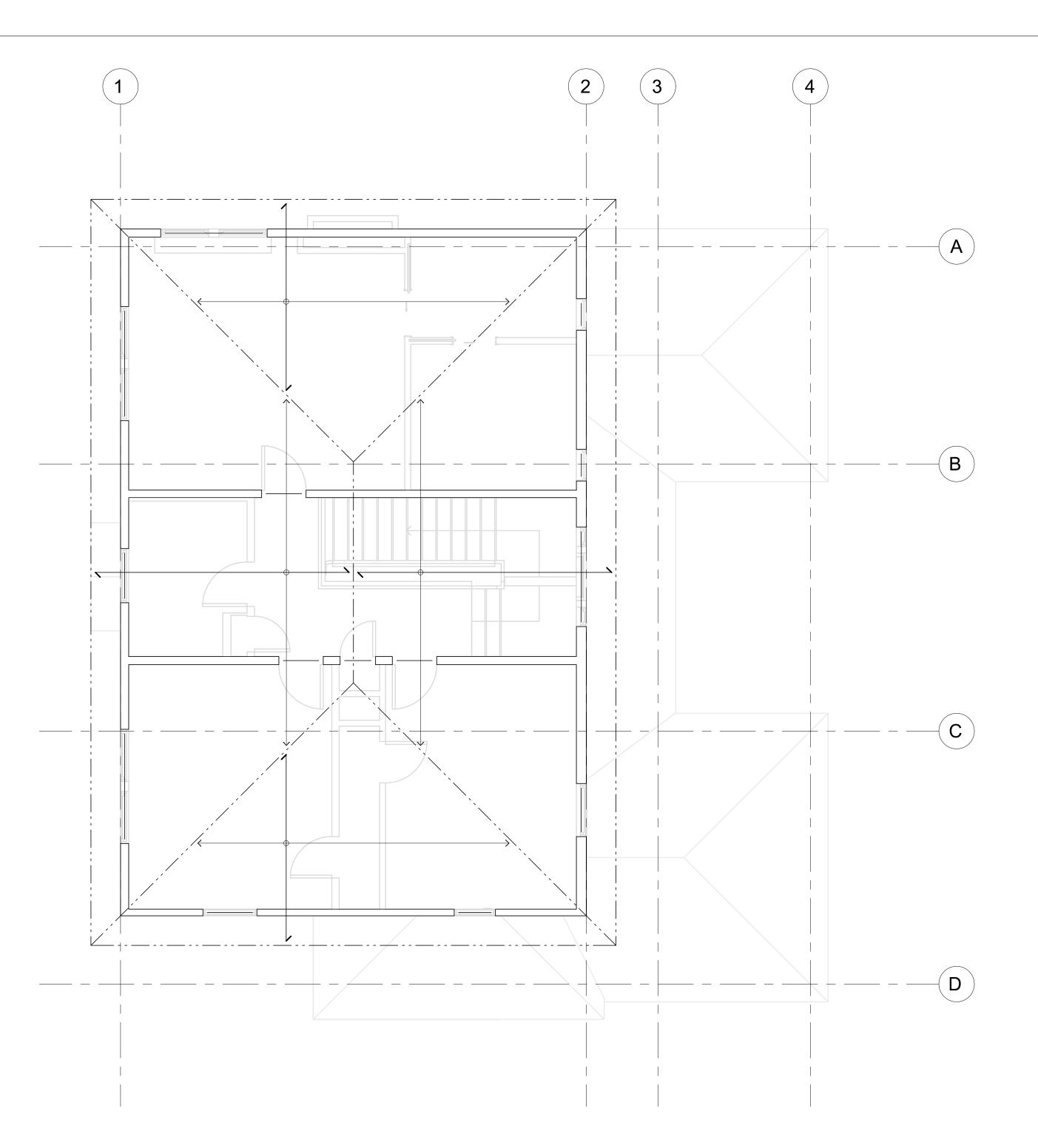
November 17, 2021

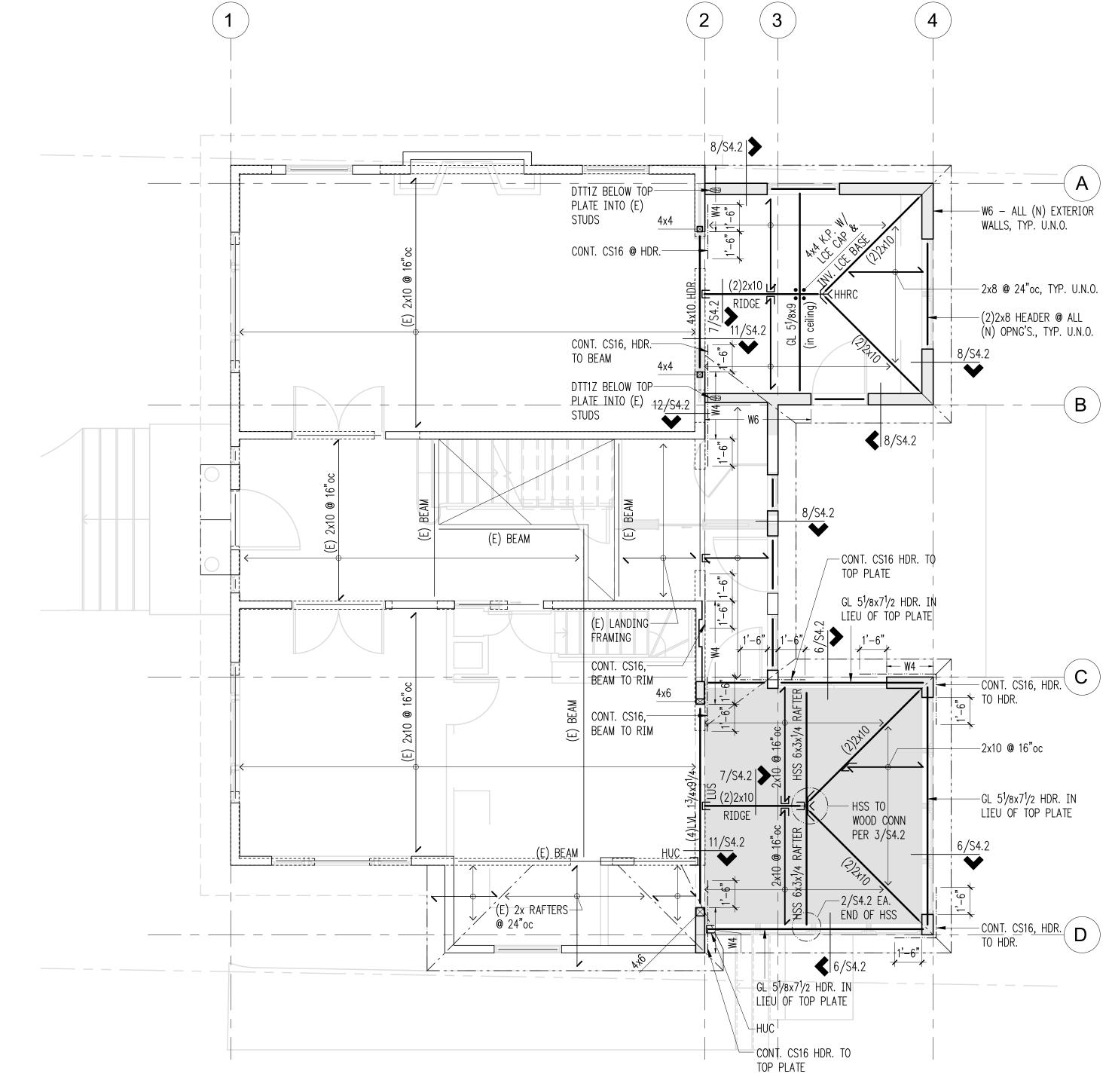
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11947-2021-02

SHEET NO:

22 1





		Roof Framing Plan	
Plan Notes	Legend	Scale: 1/4" = 1'-0"	
1. NO WORK THIS LEVEL.		NON-STRUCTURAL WALL BELOW	
<ol> <li>REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.</li> <li>DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.</li> </ol>		EXISTING WALL OR POST BELOW	
4. EXISTING FRAMING ON PLANS IS ASSUMED. CONTRACTOR TO VERIFY DIRECTIONS AND EXTENTS. NOTIFY ARCHITECT AND ENGINEER IF DIFFERENT.		SPAN DIRECTION	
	$\longleftrightarrow\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	EXTENT OF JOISTS	

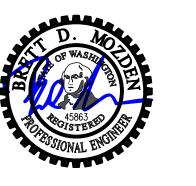
----- EXISTING HEADER/BEAM

		Upper Floor,	Low Roof Framing Plan
Plan Notes		Legend	Scale: <sup>1</sup> /4" = 1'-0'
1. REFER TO GENERAL STRUCTURAL I	IOTES FOR ADDITIONAL REQUIREMENTS.		NEW STRUCTURAL WALL OR POST BELOW
<ol> <li>DO NOT SCALE DRAWINGS. REFER</li> <li>EXISTING FRAMING ON PLANS IS</li> </ol>	TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS. ASSUMED. CONTRACTOR TO VERIFY DIRECTIONS AND		EXISTING STRUCTURAL WALL OR POST ABOVE
EXTENTS. NOTIFY ARCHITECT AND 4. "W " INDICATES NEW PLYWOOD S	HEARWALL BELOW FRAMING SHOWN. REFER TO		NON-STRUCTURAL WALL BELOW
	ATTACHMENTS. ALL NEW EXTERIOR WOOD FRAMED		EXISTING WALL OR POST BELOW
5. ALL NEW WOOD HEADERS SHALL E		Wx	SHEARWALL PER 12/S4.1
6. PROVIDE (2) BEARING STUDS AT 3'-0" IN LENGTH, U.O.N.	EACH END OF ALL NEW HEADERS AND BEAMS OVER	<b>_</b>	SPAN DIRECTION
A MOISTURE CONTENT OF 12% OR	DUCTS (LSL, LVL, PSL, GL) SHALL BE INSTALLED WITH LESS. THE CONTRACTOR SHALL MAKE PROVISIONS NT THE MOISTURE CONTENT OF INSTALLED BEAMS	$\stackrel{\bullet}{\longleftrightarrow}$	EXTENT OF JOISTS
	OR LCE COLUMN CAP AND BASE AT ALL NEW BEAM		NEW HEADER/BEAM PER PLAN
TO COLUMN CONNECTIONS U.O.N. 9. TYPICAL NEW ROOF FRAMING CON	SISTS OF ROOFING PER ARCHITECTURAL DRAWINGS		EXISTING HEADER/BEAM
OVER 1/2" CDX OR 7/16" O.S.B. PERPENDICULAR TO FRAMING PER	APA RATED SHEATHING (EXPOSURE 1), FACE GRAIN PLAN, U.O.N.		BLOCKED ROOF DIAPHRAGM: 2x4 FLAT BLKG. AT ALL PLYWOOD
<ol> <li>NAIL NEW ROOF SHEATHING WITH SHEARWALLS, AND @ 12"oc FIELD.</li> </ol>	8d @ 6"oc AT ALL FRAMED PANEL EDGES AND OVER		PANEL EDGES. NAIL ALL PLYWOOD
11. PROVIDE H1 AT ENDS OF ALL NEV	ROOF FRAMING, U.O.N.		PANEL EDGES W/ 8d @ 4"oc & @ 12"oc FIELD



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PROJECT TITLE:

Miller Blood Residence

2420 63rd Ave SE Mercer Island, WA 98040

Rain City Architecture clint@raincityarchitecture.com

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Roof and
Upper Floor
Framing Plans

SCALE:

1/4" = 1'-0" U.N.O.

DATE:

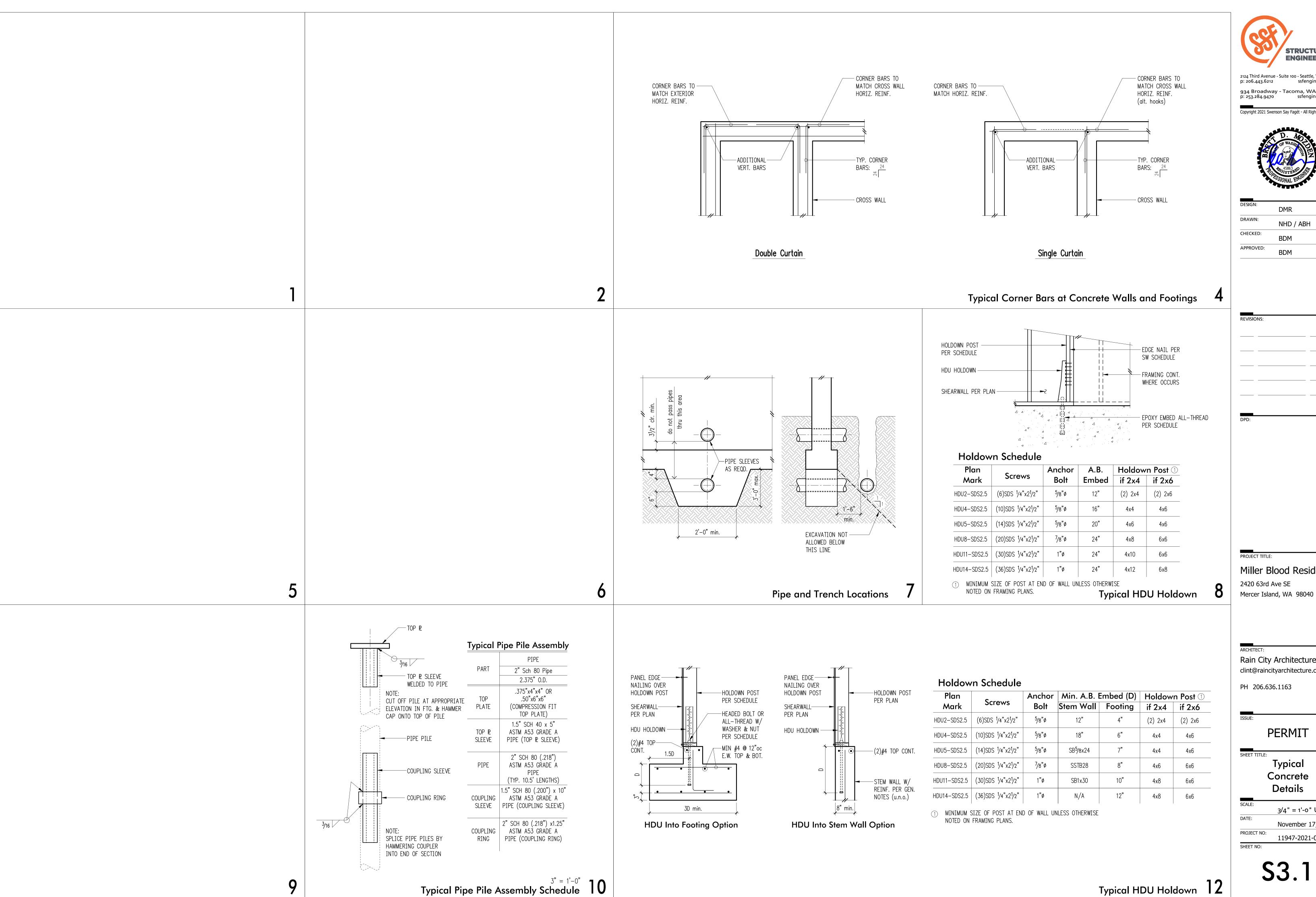
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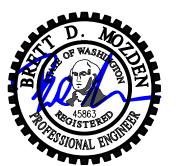
S2 2



STRUCTURAL **ENGINEERING** 

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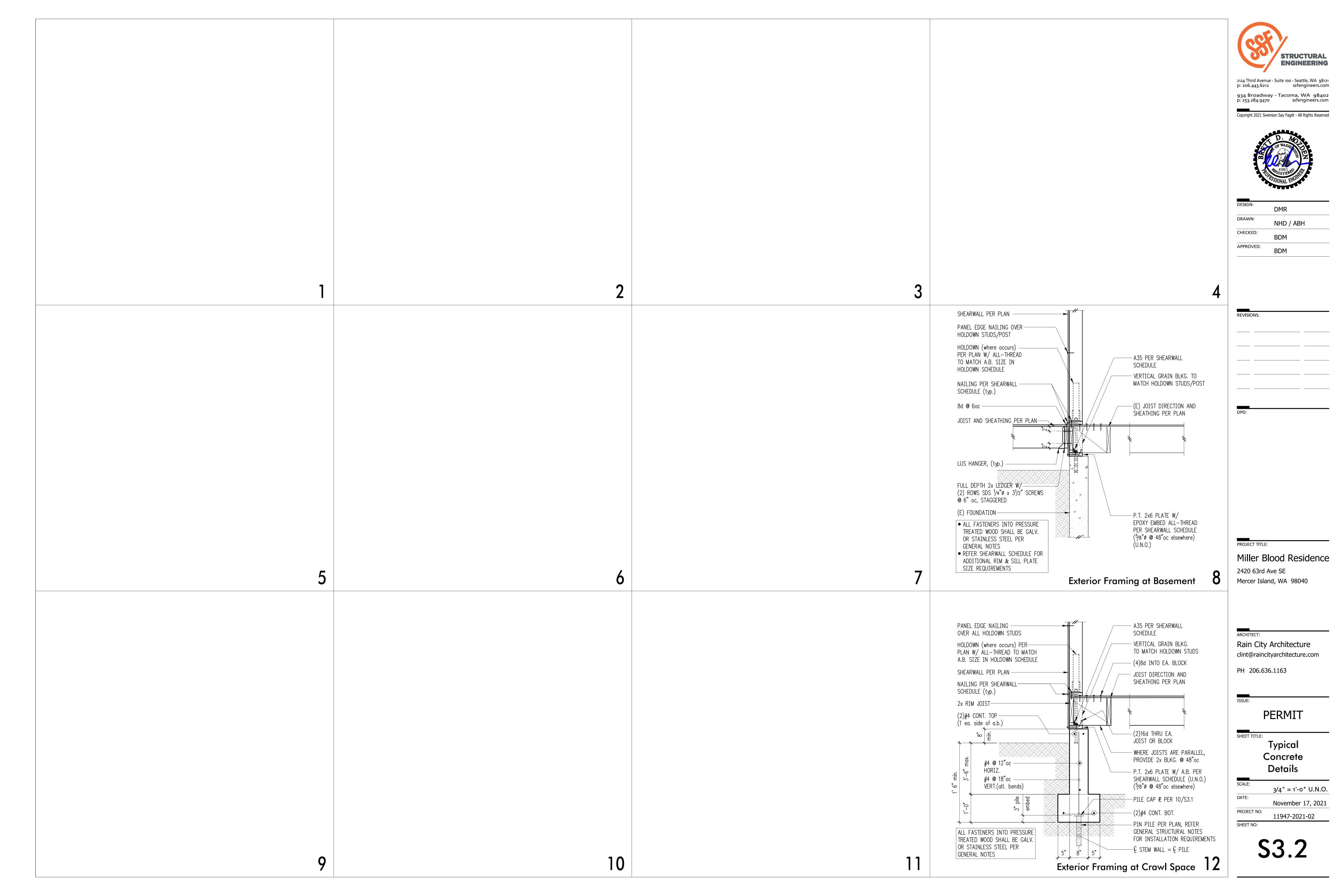
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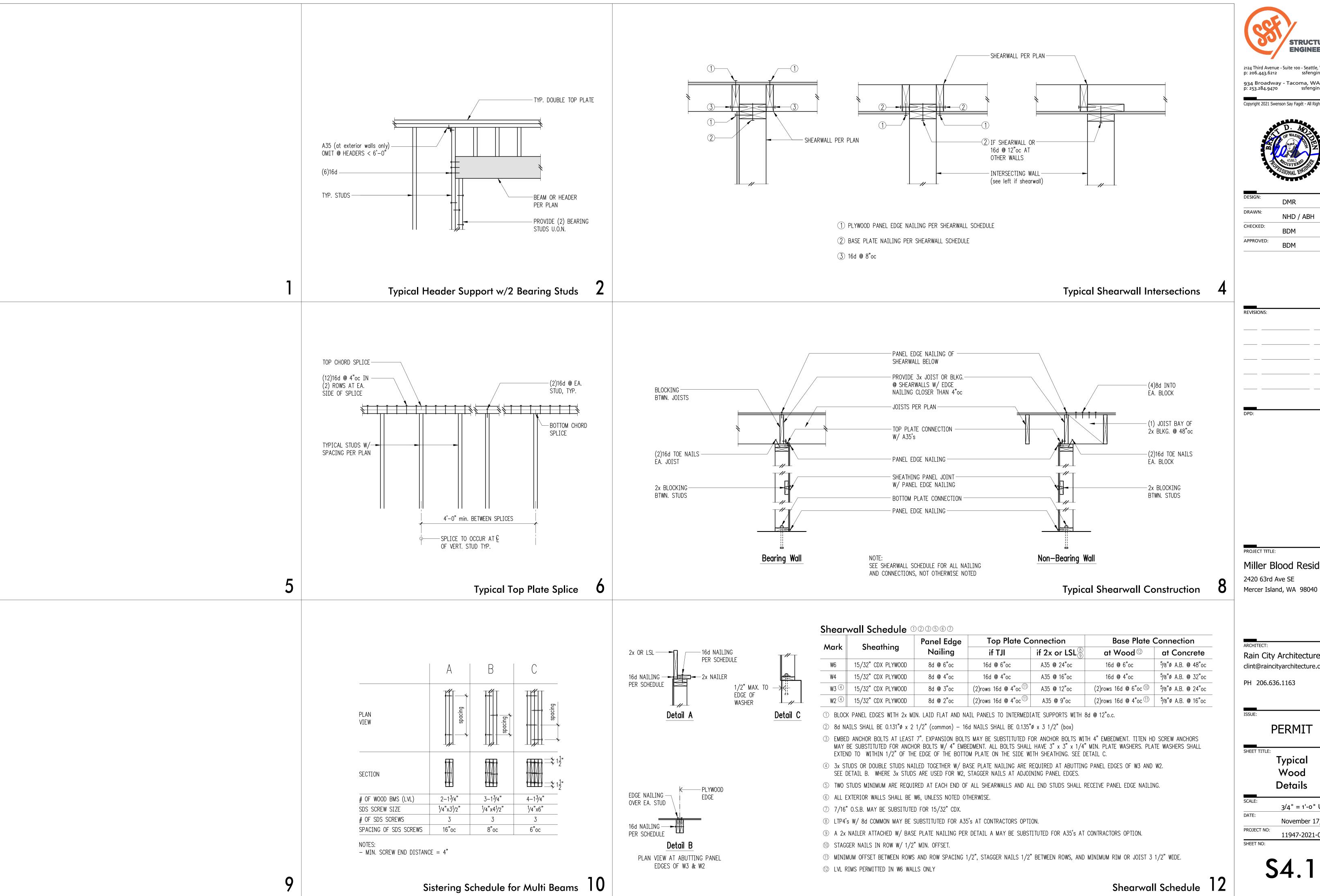
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Typical Concrete

3/4" = 1'-0" U.N.O. November 17, 2021 11947-2021-02

\$3.1





**STRUCTURAL ENGINEERING** 

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Typical Wood

**Details** 

3/4" = 1'-0" U.N.O. November 17, 2021 PROJECT NO: 11947-2021-02

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**S4**.1

