



#### GENERAL NOTES

THESE DRAWINGS ARE THE PROPERTY OF H2D, LLC. ANY REPRODUCTIONS MUST BE AUTHORIZED BY THE ARCHITECT AND MUST BEAR THE NAME OF THE 2022 BY H2D, LLC. THESE DRAWINGS ARE PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS. 1. CODES/REGULATIONS:

-CONSTRUCTION TO CONFORM TO THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC), WASHINGTON STATE LAWS AND REGULATIONS, CURRENT WASHING ENERGY CODE AND VARIOUS CODES IMPOSED BY LOCAL AUTHORITIES. -A SEPARATE PERMIT MAY BE REQUIRED FOR PLUMBING, ELECTRICAL, AND/OR MECHANICAL WORK AS APPLICABLE.

-A SEPARATE PERMIT MAY BE REQUIRED FOR PLUMBING, ELECTRICAL, AND/OR MECHANICAL WORK AS -A COPY OF THE APPROVED PERMIT PLANS MUST BE ON THE JOB SITE DURING CONSTRUCTION.

2. CONTRACTOR'S RESPONSIBILITY:

-PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES. -DO NOT SCALE CONTRACT DOCUMENTS.

-IF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES ARE NOTED, ARCHITECT IS TO BE NOTIFIED IMMEDIATELY. -ALL CHANGES MADE BY THE CONTRACTOR SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO -THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PREC OMISSIONS OR PERFORMANCE OF THE CONTRACTOR.

-CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE AND WEATHERPROOFING OF THE ENTIRE BUILDING, ITS COMPONENT EQUIPMENT, AND PA -ALL STRUCTURAL SYSTEMS SUCH AS WOOD TRUSSES WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED B MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLER. -ALL WORK MUST FOLLOW CURRENT RRP RULES AND REQUIREMENTS AS DEFINED BY THE EPA AND THE STATE OF WASHINGTON.

-ALL WASTE AND REFUSE CAUSED IN CONNECTION WITH THE WORK SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF BY THE CONTRACTOR. T LEFT CLEAR AND CLEAN TO THE SATISFACTION OF THE OWNER. -CONTRACTOR SHALL DESIGN AND INSTALL SHORING AS REQUIRED TO PERFORM WORK. ENGINEERING, CONSTRUCTION AND SAFETY OF THE SHORING SHOF THE CONTRACTOR.

-FOR ALL NEW CONSTRUCTION OR ADDITIONS DESIGNED WITHIN 1'-O" OF THE HEIGHT LIMIT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING VERIFY THE ELEVATION OF THE STRUCTURE AS IT IS BEING BUILT TO VERIFY ANY ELEVATION DISCRPANCIES THROUGHOUT CONSTRUCTION. ELEVATIONS SEACH FLOOR LEVEL PRIOR TO PROCEEDING WITH THE NEXT FLOOR OF FRAMING: TOP OF FOUNDATION, TOP OF SUBFLOOR, TOP PLATE AND RIDGE ELEVATION DURING CONSTRUCTION. CONSULT ARCHITECT FOR CLARIFICATION PRIOR TO CONSTRUCTION.

#### 3. <u>SOILS:</u>

-FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 2,000 PSF OR PER GEOTECHNICAL REPORT. ALL FOOTINGS SHALL BE CA NATURAL SOIL OR COMPACTED SOIL OF 2,000 PSF BEARING CAPACITY AT LEAST 1-6" BELOW LOWEST ADJACENT GRADE, AND FREE OF ORGANIC MATEI SHALL BE FREE OF LOOSE SOILS, DEBRIS, AND FREE WATER AT ALL TIMES. THIS OFFICE TAKES NO RESPONSIBILITY IN VERIFYING THE ACCURACY OF EN BY OTHERS.

#### 4. ATTIC REQUIREMENTS:

-APPLY ROOFING IN ACCORDANCE WITH IRC CHAPTER 9. PROVIDE ATTIC VENTILATION AS INDICATED ON DRAWINGS AND AS OUTLINED IN IRC SEC R806. -THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED, EXCEPT THAT THE AREA MAY BE 1/300 PR PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATION LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEA CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. (IRC SEC R806). -ATTIC ACCESS: MINIMUM 22" x 30" WITH MINIMUM 30" HEADROOM, UNOBSTRUCTED, READILY ACCESSIBLE OPENING. IRC SEC R807. ACCESS DOORS SH AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. -IN ROOMS NOT PROVIDED WITH AN OPERABLE WINDOW OF 1.5 SQ. FT. OR GREATER, A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING 5 AIR (

PROVIDED. -VENT DRYER, BATH FANS, AND RANGES/OVENS TO THE OUTSIDE.

5. <u>VENTILATION:</u> -VENT FANS SHALL TERMINATE AT THE EXTERIOR OF THE BUILDING PER IRC SECTION M1502.3 AND IMC SECTION 501.3.

-INSULATE ALL DUCTS OUTSIDE OF CONDITIONED SPACE PER WA STATE ENERGY CODE.

-KITCHEN RANGE HOODS: RANGE HOODS CAPABLE OF EXHAUSTING MORE THAN 400 CFM REQUIRE MAKE-UP AIR PER IRC M1503.6. 6. <u>GLAZING:</u>

-TO BE IN COMPLIANCE WITH IRC SEC R308 AND WASHINGTON STATE SAFETY GLASS LAW, EXCEPTIONS ARE AS OUTLINED IN IRC SEC R308. -GLAZING IN LOCATIONS SUBJECT TO HUMAN IMPACT SUCH AS GLASS IN DOORS, GLAZING WITHIN 24" ON EITHER SIDE OF A DOOR OPENING, GLAZING CLI SHOWER DOORS AND TUB ENCLOSURES SHALL BE WIRE REINFORCED, TEMPERED GLASS, LAMINATED SAFETY GLASS OR SHATTER RESISTANT PLASTIC -SLIDING GLASS DOORS TO BE SAFETY GLAZING, LAMINATED OR TEMPERED GLASS.

-SHOWER ENCLOSURES SHALL BE APPROVED WIRE REINFORCED, TEMPERED OR LAMINATED SAFETY GLASS OR SHATTER RESISTANT PLASTIC.

-GLAZING WITHIN 18" OF FLOOR AND GREATER THAN 18" IN LEAST DIMENSION SHALL COMPLY WITH IMPACT LOADS. SEE PLANS. -ALL EXTERIOR WALL GLAZING SHALL BE DOUBLE GLAZED, UNLESS NOTED OTHERWISE, AND COMPLY WITH STATE OF WASHINGTON ENERGY CODE.

-EGRESS IN EVERY SLEEPING ROOM SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION CLEAR OPENING WIDTH OF 20" AND A FINISHED SILL HEIGHT NOT MORE THAN 44" ABOVE THE FLOOR. IRC SEC R310. 7. ENERGY:

-ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO IRC REQUIREMENTS AND THE WASHINGTON STATE ENERGY CODE, LATEST EDI BEFORE PROCEEDING WITH WORK. -APPLICATION AND INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDAR -BUILDING AIR LEAKAGE TESTING, PER SEC 402.4, IS REQUIRED PRIOR TO FINAL INSPECTION. THE TEST RESULTS SHALL BE POSTED ON THE RESIDENTI/

CERTIFICATE. -EACH DWELLING UNIT IS TO HAVE ONE PROGRAMMABLE THERMOSTAT FOR REGULATION OF TEMPERATURE PER SEC 403.1. -A SIGNED AFFADAVIT DOCUMENTING THE DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO AN APPROVED FIN

-DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO AN APPROVED FINAL INSPECTION. -MINIMUM 90% OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH EFFICACY LAMPS PER SEC 404.1. -WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLL COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY. THE THERMOSTAT SHA

MINIMUM, A 5-2 PROGRAMMABLE SCHEDULE (WEEKDAYS/WEEKENDS) AND BE CAPABLE OF PROVIDING AT LEAST TWO PROGRAMMABLE SETBACKS PER **8. <u>STAIRS:</u>** -MINIMUM HEADROOM 6'-8"; MINIMUM TREAD 10"; MAXIMUM RISER 7 3/4"

-HANDRAIL: REQUIRED AT ALL STAIRS WITH MORE THAN 4 RISERS PER IRC 311.7.8. MINIMUM 34" AND MAXIMUM 38" ABOVE TREAD NOSING. OPEN SIDES ( ABOVE ADJACENT FLOOR SHALL HAVE HANDRAILS AND GUARDRAILS. HANDRAIL TO BE 1 1/4"-2" CROSS SECTIONAL DIMENSION AND 1 1/2" AWAY FROM WA -GUARDRAIL: SHALL BE MIN 36" IN HEIGHT WHERE ADJACENT SURFACE OR GRADE IS 30" OR MORE BELOW. RAILINGS SHALL BE SPACED TO NOT ALLOW SPHERE PER IRC 312.1.

-INSTALL FIRE BLOCKING AT MID-STRINGER SPAN AND AT WALL ALIGN STRINGER. -COVER WALLS AND SOFFITS OF USABLE SPACE UNDER STAIR WITH 5/8" TYPE "X" GYPSUM WALLBOARD.

9. INSULATION: -INSULATION TO MEET THE CURRENT WASHINGTON STATE ENERGY CODE REQ'TS FOR TABLE R402.1.1, TABLE R402.1.3 AND SECTION R402. REFER TO PRE

-EXISTING WALL AND FLOOR CAVITIES EXPOSED DURING CONSTRUCTION FOUND UNINSULATED, OR WITH DAMAGED INSULATION (DISCOLORED, W DETERIORATED) SHALL BE FILLED WITH R-15 INSULATION AT 2X4 FRAMING AND WITH R-21 INSULATION AT 2X6 FRAMING. REF SEC R503.1.1-EXCEP -WALLS TO BE INSULATED WITH MINIMUM R-21 INSULATION. BELOW GRADE WALLS TO BE INSULATED WITH MINIMUM R-21 INSULATION, ALLOW FOR THERMA SLAB AND BASEMENT WALL UNLESS NOTED OTHERWISE.

-ROOF AND CEILING INSULATED WITH R-49 BLOWN-IN AT FLAT CEILINGS AND R-38 H.D. BATT AT VAULTED AREAS UNLESS NOTED OTHERWISE.

-ROOF: ALLOW FOR A MINIMUM 1" CLEAR BETWEEN TOP OF INSULATION AND BOTTOM OF SHEATHING FOR VENTING UNLESS NOTED OTHERWISE. -VENTING IS REQUIRED IN EACH JOIST SPACE. WHERE CONTINUOUS VENTING WITH A JOIST SPACE IS INTERRUPTED BY A HEADER (FOR EXAMPLE AT A SH 11/2" VENTING HOLES AT THE TOP OF THE RAFTER AT THE HEADER TO ALLOW FOR CONTINUOUS THRU-VENTING INTO THE NEXT JOIST SPACE UNLESS NOTE -FLOORS: INSULATED WITH R-30 BATT INSULATION OVER UNHEATED SPACE UNLESS NOTED OTHERWISE. -SLAB-ON-GRADE: PROVIDE EXTRUDED RIGID CLOSED CELL R-10 INSULATION. INSULATION TO PROVIDE THERMAL BREAK BETWEEN SLAB AND FOOTING AN

SLAB TO THE BOTTOM OF THE FOOTING. INSULATION MAY BE INTERRUPTED FOR 6" EVERY 2'-O" TO ALLOW FOR DOWELING TO TIE SLAB AND FOOTING TOG OTHERWISE. 10. GARAGE SEPARATION:

-REQUIRES 1/2" GWB ON THE GARAGE SIDE. 5/8" TYPE X GWB WHERE THERE IS LIVING SPACE ABOVE. SUPPORTING COLUMNS, WALLS AND BEAMS USI -OPENINGS INTO A GARAGE: OPENINGS INTO A GARAGE SHALL HAVE A SOLID WOOD OR HONEYCOMB-CORE STEEL DOOR NOT LESS THAN 1-3/8" THICK, C DOORS SHALL BE EQUIPPED WITH A SELF-CLOSING DEVICE PER IRC R302.5.1.

11. <u>VAPOR BARRIERS:</u>

 -AN APPROVED VAPOR BARRIER SHALL BE INSTALLED AT EXTERIOR WALLS AND AT ALL ROOF DECKS, BELOW ENCLOSED JOIST SPACES WHERE CEILING INSTALLED TO JOISTS, AND ANY OTHER WALL OR CEILING SURFACES WHICH RECEIVE INSULATION. THIS VAPOR BARRIER MAY BE A COMPONENT OF THE I APPLICATION AND INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARI

 12. <u>FIRE SAFETY:</u>

-SMOKE ALARMS/DETECTORS (S.D.): SMOKE ALARMS/DETECTORS SHALL BE INSTALLED IN ALL SLEEPING ROOMS, IN THE AREA OUTSIDE THE SLEEPING LOCATIONS PER IRC R314. POWER SOURCE AND INTERCONNECTION PER IRC. -CARBON MONOXIDE DETECTORS (C.M.D.): SHALL HAVE AN APPROVED CARBON MONOXIDE ALARM INSTALLED OUTSIDE OF EACH SLEEPING AREA IN DWELL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS PER IRC315. SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYIN

BE INSTALLED IN ACCORDANCE WITH THIS CODE, NFPA 720-2012 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. -CARBON MONOXIDE DETECTION SYSTEMS PER IRC 315.2 THAT INCLUDE CARBON MONOXIDE DETECTORS AND AUDIBLE NOTIFICATION APPLIANCES, INSTAL ACCORDANCE WITH THIS SECTION FOR CARBON MONOXIDE ALARMS AND NFPA 720-2012, SHALL BE PERMITTED. THE CARBON MONOXIDE DETECTORS SHA WITH UL 2075. WHERE A HOUSEHOLD CARBON MONOXIDE DETECTION SYSTEM IS INSTALLED, IT SHALL BECOME A PERMANENT FIXTURE OF THE OCCUPANC 13. CERTIFICATE & TESTING

- A PERMANENT CERTIFICATE SHALL BE COMPLETED AND POSTED ON OR WITHIN THREE FEET OF THE ELECTRICAL DISTRIBUTION PANEL BY THE BUILDER ( PROFESSIONAL. THE CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL AND SHALL NOT COVER OR OBSTRUC CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL, OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF IN CEILING/ROOF WALLS, FOUNDATION (SLAB, BELOW-GRADE WALL, AND/OR FLOOR) AND DUCTS OUTSIDE CONDITIONED SPACES; U-FACTORS FOR FENESTR/ FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON THE BUILDING. WHERE THERE IS MORE THAN ONE VALUE F CERTIFICATE SHALL LIST THE VALUE COVERING THE LARGEST AREA. THE CERTRIFICATE SHALL LIST THE TYPES OF EFFICIENCIES OF HEATING, COOLING, / EQUIPMENT.

 THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING 5 AIR CHANGES PER HOUR. TES WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCHES W.G. (50 PASCALS). WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL. TEST AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE.
 14. LIGHTING EQUIPMENT

- NOT LESS THAN 90 PERCENT OF LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS - FUEL GAS LIGHTING SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS

## SEASONAL DEVELOPMENT LIMITATION WAIVER

HAZARDOUS AREA IS PROPOSED TO OCCUR BETWEEN OCTOBER 1 AND APRIL 1, A SEASONAL DEVELOPMENT WAIVER SHALL BE APPLIED FOR AND APPROVED BY THE CODE OFFICIAL.

#### PRESCRIPTIVE REQUIREMENT

0.28

0.50

N/A 0.026

0.056

0.056

0.029

0.042

N/A

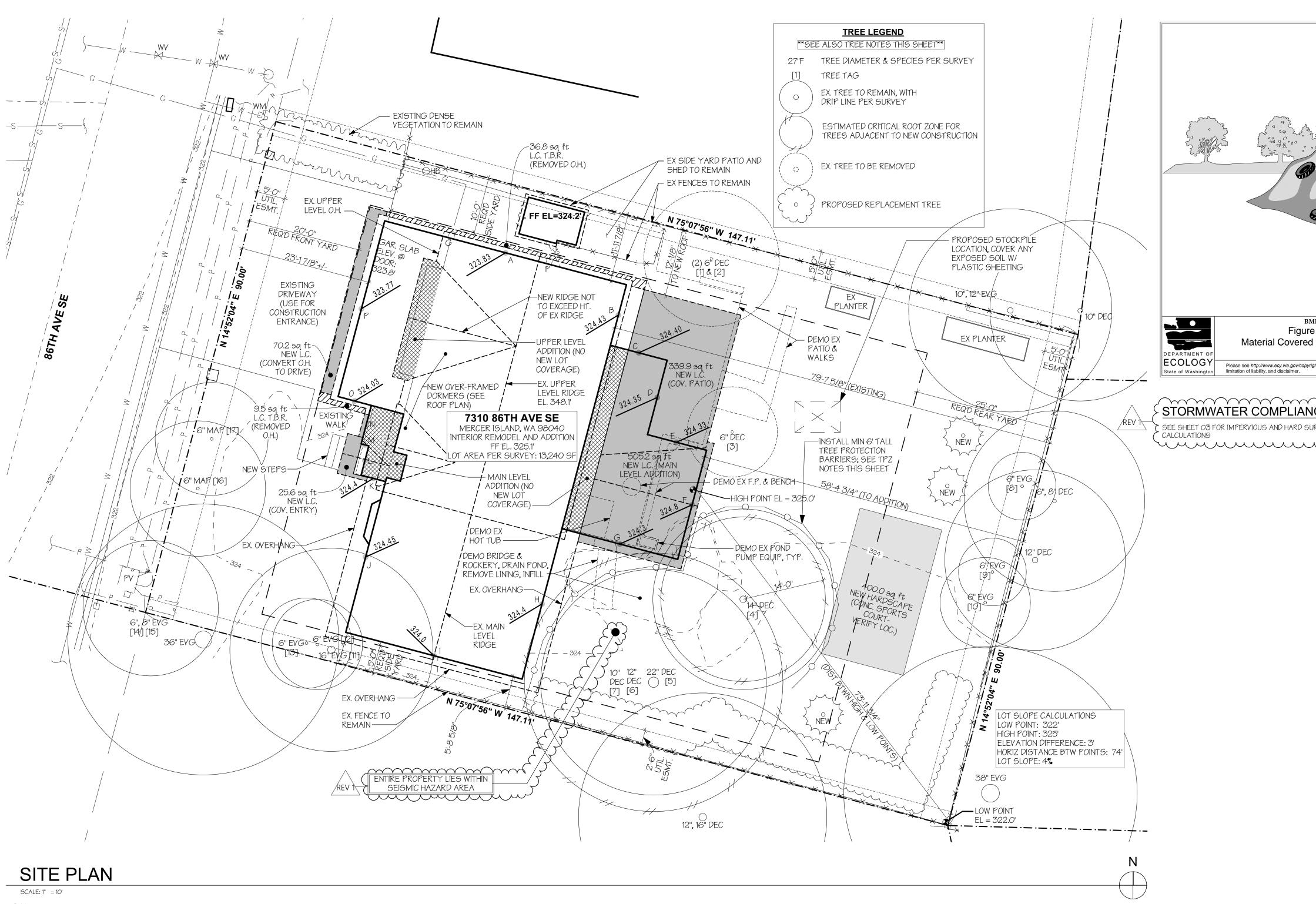
LOCATION	R-VALUE
FENESTRATION U-FACTOR	N/A
SKYLIGHT U-FACTOR	N/A
GLAZED FENESTRATION SHGC	N/A
CEILING	49
WOOD FRAME WALL	21 INT
MASS WALL R-VALUE	21/21
FLOOR	38
BELOW GRADE WALL	10/15/21 INT + TB
SLAB R-VALUE AND DEPTH	10, 2 FT

HE ARCHITECT. © COPYRIGHT	PROJECT INF	ORMATION			
GTON STATE RESIDENTIAL	PROJECT OWNER:	KELLY AND MATTHEV 7310 86TH AVE SE MERCER ISLAND WA			
	PROJECT ARCHITECT: PROJECT DESIGNER:	HEIDI HELGESON SARAH THOMPSON/L H2D ARCHITECTURE -	.AUREN GROTH + DESIGN		
O CONSTRUCTION. ECAUTIONS, ACTS OR PARTS. D BY THE SUPPLIER DURING A	STRUCTURAL ENGINEER	23020 EDMONDS W/ EDMONDS, WA 9802 C DANIEL BUKER BUKER ENGINEERING 4303 STONE WAY N SEATTLE, WA 98103	со <sup>1</sup>		
. THE PREMISES SHALL BE	GEOTECHNICAL ENGINE	COBALT GEOSCIENCE P.O. BOX 1792	ES, LLC		
G WITH THE SURVEYOR TO S SHOULD BE VERIFIED FOR TIONS SHOULD BE VERIFIED	PROJECT DESCRIPTION: PROJECT ADDRESS:		$\mathcal{M}$		III Q
CAST ON UNDISTURBED FIRM TERIALS. FOOTING EXCAVATION ENGINEERING DATA SUPPLIED	TAX LOT NUMBER: LEGAL DESCRIPTION:	7310 86TH AVE SE 5451200600 MERCER ISLAND EST			ENCE SE A 98040
			CE STATIST	ICS	SIDE HAVE S ND WA
PROVIDED AT LEAST 50 EAST 3 FEET ABOVE EAVE OF	ZONE:	R-9.6			ESII TH AV AND
SHALL BE WEATHERSTRIPPED R CHANGES PER HOUR SHALL BE	<u>REQ'D SETBACKS</u> :	FRONT: REAR SETBACK: SIDE SETBACK:	5' MIN, TO1	20' 25' FAL 15'	86 ISL
	PARKING:	3 PARKING SPACES			ER ER
	INFORMATION:	BUILDING HEIGHT LIMIT = 30' REFER TO SHEET A2.0 AND / HEIGHT INFORMATION			RADE 731 MERCEF
	*REFER TO 02 SHEET FO	OR ADDITIONAL LAND USE CO	DE COMPLIANCE ST.	ATISTICS	
CLOSER THAN 18" TO A FLOOR, TIC.					
N SHALL BE 24", MINIMUM NET	SMALL DWELLING UNIT: DWELLING UNITS LESS	THAN 1500 SF IN CONDITIONEI			
EDITION. VERIFY ALL CONDITIONS	SF OF FENESTRATION A ADDITIONS TO EXISTING LESS THAN 1500 SF.	REA. BUILDINGS GREATER THAN S	500SF OF HEATED F	FLOOR AREA BUT	
ARDS. TIAL ENERGY COMPLIANCE	FUEL NORMALIZATION C	REDIT FROM WASHINGTON ST	ATE ENERGY CODE	TABLE R406.2	
FINAL INSPECTION.	FOR AN INITIAL HEATING FOR THE EQUIPMENT LIS	EDIT: SYSTEM USING A HEAT PUN STED IN TABLE C403.3.2(1) OR		DERAL STANDARDS	
		MP UNITS THAT ARE CONFIGL D IN ACCORDANCE WITH AHRI		OTH HEATING AND	
DLLING THE HEATING AND HALL ALLOW FOR, AT A °ER DAY.		ENVELOPE = 0.5 NICE IS BASED ON TABLE R4 ESTRATION U=0.28	02.1.1 WITH THE FOLL	OWING MODIFICATIONS:	9716 REGISTERED ARCHITECT
S OF STAIRS MORE THAN 30" VALL.	SLAB ON GRAD	DE R-10 PERIMETER AND UNDE SLAB R-10 PERIMETER AND I		3	Heize M. Heg
W THE PASSAGE OF A 4-3/8"	COMPLIANCE B 3.2 HIGH EFFICIENCY HV	ASED ON SECTION R402.1.4: 1 AC EQUIPMENT = 1.0 CREDITS	5		HEIDI MICHELLE HELGESON STATE OF WASHINGTON
	4.1 HIGH EFFICIENCY HVA	Y DUCTED HEAT PUMP WITH N C DISTRIBUTION SYSTEM = C	0.5 CREDITS		
RESCRIPTIVE TABLE ON SHEET	BURIED IN CEILING INSUL	ATION IN ACCORDANCE WITH	SECTION R403.3.7.		
CEPTION 2 MAL BREAK BETWEEN FLOOR	10 LINEAR FEET OF RETL THE EQUIPMENT MAY BE LOCATED OUTSIDE THE ( LONGITUDINAL JOINTS S	MENT LOCATED OUTSIDE THE IRN DUCT AND 5 LINEAR FEET E OUTSIDE THE DEEPLY BURIE CONDITIONED SPACE MUST H/ EALED WITH MASTIC. IF FLEX	OF SUPPLY DUCT C ED INSULATION. ALL AVE BOTH TRANSVE	CONNECTIONS TO METALLIC DUCTS RSE AND	21
SKYLIGHT OR HIP), PROVIDE (2) )TED OTHERWISE.		BE LIMITED TO 3CFM PER 100	SQUARE FEET OF C	ONDITIONED FLOOR	
AND RUN FROM THE TOP OF THE OGETHER. UNLESS NOTED	AREA. AIR HANDLER(S) SHALL I	BE LOCATED WITHIN THE COND	DITIONED SPACE.		
SE 1/2" GWB PER IRC R302.6	SHEET INDE>	<			
, OR 20-MINUTE FIRE RATING.	\ P2 SHERLAN	ORMATION, VICINITY MAP, GEI R CALCULATIONS	NERAL NOTES, AS-B	UILT PLANS	
G FINISHES ARE DIRECTLY ///// E INSULATION MATERIAL. ARDS.	- SURV SURVER	PER FLOOR DEMOLITION PLAN TION PLAN	١S		H 2 D
IG ROOM AND IN OTHER	A1.3 UPPER FLOOF A1.4 ROOF PLAN	R PLAN			ARCHITECTUR E +
LLING UNITS AND IN EACH LEVEL 11NG WITH UL2034 AND SHALL	A1.5 WINDOW AND A2.0 EXTERIOR ELE A2.1 EXTERIOR ELE				DESIGN
ALLED AND MAINTAINED IN HALL BE LISTED AS COMPLYING ANCY.	A3.0 BUILDING SEC A3.1 BUILDING SEC A4.0 WALL SECTIO	CTIONS			23020 EDMONDS WAY, #113
R OR REGISTERED DESIGN JCT THE VISIBILITY OF THE INSULATION INSTALLED IN OR ON RATION AND THE RESULTS E FOR EACH COMPONENT, THE 6, AND SERVICE WATER HEATING	S1.1GENERAL STS2.1FOUNDATIONS2.2SECOND FLOOS2.3ROOF FRAMINS3.1CONCRETE DES3.2CONCRETE DES4.1FLOOR FRAMIN	RUCTURAL NOTES PLAN DR/LOW ROOF FRAMING PLAN IG PLAN ETAILS ETAILS NG DETAILS			EDMONDS, WA 98020 P.206.542.3734 www.h2darchitects.com
TESTING SHALL BE CONDUCTED 3Y AN APPROVED THIRD PARTY.	S4.2 FLOOR FRAMI S5.1 ROOF FRAMIN				DATE: 12/23/2022
STING SHALL BE PERFORMED	SE 72ND PL	SE 71ST ST			REV 1: 2/13/2023
		SE 72ND ST		PIONEER PARK	PERMIT SET
		SE 72ND ST	AVE SE T WAY		PROJECT INFORMATION,
TS - ALL CLIMATE ZONES			87TH / D CREST	SE 72ND PL	VICINITY MAP, GENERAL NOTES, AS-BUILT PLANS
U-FACTOR		SE 73RD ST SIT	U VV TSI		

VICINITY MAP (NTS)

WILDWOOD PARK

SE 74TH PL

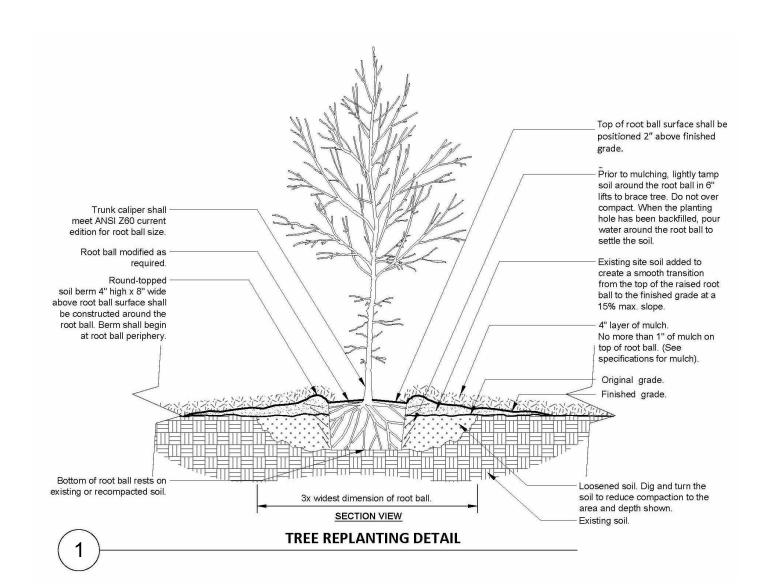


NOTE:

1. REFER TO SURVEY FOR ADDITIONAL INFORMATION. 2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO GROUND WORK.

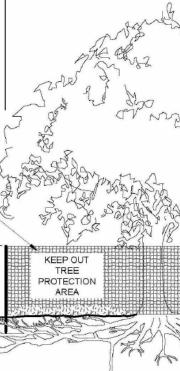
	AVERAG	E BUILDING ELEVA	FION CALCULATION			
MIDPOI	NT ELEVATION	WALL L	WALL LENGTH			
TAG	(DECIMAL FEET)	(FEET & INCHES)	(DECIMAL FEET)	(SF)		
А	323.83	44'-3 11/16"	44.30	14345.67		
В	324.43	11'-1 1/4"	11.10	3601.17		
С	324.40	10'-4 3/4"	10.40	3373.76		
D	324.35	13'-7 1/2"	13.63	4420.89		
Е	324.33	10'-10"	10.83	3512.49		
F	324.80	20'-0"	20.00	6496.00		
G	324.30	21'-2 3/4"	21.23	6884.89		
Н	324.40	27'-6 3/4"	27.56	8940.46		
Ι	324.00	32'-4"	32.33	10474.92		
J	324.45	27'-7 5/8"	27.64	8967.80		
К	324.40	4'-5 3/4"	4.48	1453.31		
L	324.30	5'-4 3/4"	5.40	1751.22		
М	324.30	1'-4 3/4"	1.40	454.02		
Ν	324.30	7'- 1/2"	7.04	2283.07		
0	324.03	6'-1"	6.08	1970.10		
Р	323.77	32'-9 1/2"	32.80	10619.66		
		TOTALS:	276.22	89549.44		
Total Area	/	Total Length	=	Ave. Building Ele		
				(DECIMAL FEET		
89549.44	/	276.22	=	324.20		
		30' Height Li	mit:			
324.20	+	30'	=	354.20		

1) LENGTHS MEASURED TO OUTSIDE OF EXTERIOR WALLS 2) BENCHMARK: (TEMP) SET PK NAIL W/ WASHER; LOCATION: NW OF CL INTERSECTION OF SE 73RD & 86TH AVE. SE; ELEVATION: 322.37'



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

2. RE Inspection Fees/fina 3. Arborist reports recom Crown drip line or other limit of Tr Site/Utility Plan for fence



ZONE:	R-9.6	
EXISTING	LOT AREA:	13,240 SF (PER SURVEY
LOT COVERAGE:	EXISTING HOUSE (INCL OVERHANGS): EXISTING DRIVEWAY: TOTAL EXISTING LOT COVERAGE:	3,399.1 SF <u>730.5 SF</u> 4,129.6 SF (31.2 <b>%</b>
	ALLOWED LOT COVERAGE:	13,240 SF X 40% = 5,296 SF0k
PROPOSED LOT COVERAGE:	EXISTING HOUSE - INCL OVERHANGS: EXISTING DRIVEWAY: PROPOSED ENTRY PORCH ROOF: PROPOSED REAR COVERED PATIO: PROPOSED ADDITION - INCL OVERHAN OVERHANG AREA CONVERTED TO DRI TOTAL EXISTING + PROPOSED:	730.5 SI 25.6 SI 339.9 SI IGS: 505.2 SI
	OVERHANG REMOVED: OVERHANG AREA CONVERTED TO DRI TOTAL REMOVED:	(46.3 SF IVE: <u>(70.2 SF</u> (116.5 SF
	TOTAL NET LOT COVERAGE:	4954.0 SF (37.4%
	ALLOWED LOT COVERAGE:	13,240 SF X 40% = 5,296 SF0k
<u>EXISTING</u> HARDSCAPE:	EXISTING FRONT WALK: EXISTING SIDE & REAR PATIOS/SHEL BENCHES/PAVERS/EQUIP. PADS: TOTAL EXISTING HARDSCAPE:	112.0 SI D/ 1 <u>,288.0 SI</u> 1,400.0 SF (10.6 <b>%</b>
	ALLOWED HARDSCAPE:	13,240 SF X 9% = 1,191.6 SF. OVER
NOT TO SCALE <u>PROPOSED</u> <u>HARDSCAPE</u> :  eeting ised December 2015 luding permissions,	EXISTING FRONT WALK: EXISTING SIDE & REAR PATIOS/SHED BENCHES/PAVERS/EQUIP. PADS: PROPOSED SIDE PATIO - OVERHANG F PROPOSED FRONT WALK - OVERHANG PROPOSED SPORTS COURT: TOTAL EXISTING + PROPOSED:	1,288.0 SI REMOVAL: 31.9 SI
	EXISTING FRONT WALK REMOVED: REAR PATIO/BENCHES/PAVERS/EQUII TOTAL REMOVED:	(21.4 SF P. PADS REMOVED: <u>(894.8 SF</u> (916.2 SF
<u>TICS</u> }	TOTAL NET HARDSCAPE:	925.2 SF (7 <b>%</b>
$\langle$	ALLOWED HARDSCAPE:	13,2405F X 9% = 1,191.6 SF0k
PROPOSED LANDSCAPE:	PROPOSED LANDSCAPE AREA: REQUIRED MIN. LANDSCAPE AREA:	8,286.1 SF (62.6% 13,240 X 60% = 7,944 SF0k
EXISTING GROSS FLOOR AREA**	EXISTING MAIN FLOOR - INCL. GARAG EXISTING UPPER FLOOR - EXCL. STAIL TOTAL EXISTING FLOOR AREA:	
	ALLOWED FLOOR AREA*: 13	3,240 SF X 40% = 5,296.0 SF0k
PROPOSED GROSS FLOOR AREA**	EXISTING MAIN FLOOR - INCL. STAIR: EXISTING GARAGE: EXISTING UPPER FLOOR - EXCL. STAIR PROPOSED MAIN FLOOR ADDITION - 9 PROPOSED MAIN FLOOR @ ENTRY AL PROPOSED ADDED DOUBLE-HEIGHT T PROPOSED MAIN FLOOR (GAR. CONVE PROPOSED UPPER FLOOR:	SINGLE STORY:         641.82 SI           DDITION (x2 HT):         21.64 SI           0 EX. MAIN FLR:         32.32 SI
	EXISTING UPPER FLOOR T.B.R.: EXISTING GARAGE T.B.R.:	(43.1 SF (91.52 SF
	TOTAL PROPOSED GROSS FLOOR AR	· ·
	ALLOWED GFA*: 13	3,240 SF X 40% = 5,296.0 SF0k
	*LESSER OF 8,000 SF OR 40% OF LC **GROSS FLOOR AREA INCLUDES COL UNCONDITIONED SPACE	
TREE NOTES		
TREES TO BE REMOVE [1] 6" DEC [2] 6" DEC [3] 6" DEC	D # REPLACEMENT TREES* 1 1 1	
TREES TO BE RETAINE NEAR CONSTRUCTION [4] 14" DEC [5] 22" DEC	EST. CRZ RADIUS % ENCRO 14'-0" 7%	DACHMENT (12'') (8 5/8'')
CHAPTER 19.10. 2. NO LARGE OR EXCEP ALL TREES ADJACENT 3. *NUMBER OF REPLA SHOWN ON SITE PLAN BE VERIFIED BY CITY O	N, PROTECTION, AND REPLANTING OF TH TIONAL TREES ARE PROPOSED TO BE TO AREA OF CONSTRUCTION PRIOR TO CEMENT TREES IS BASED ON TABLE IN IS SCHEMATIC; SIZE, SPECIES, AND EX IR PRIVATE QUALIFIED ARBORIST PRIO SHEET FOR TREE PROTECTION AND PLA THIS SHEET.	REMOVED. VERIFY STATUS OF START OF DEMOLITION. MICC 19.10.070. LOCATION ACT PLANTING LOCATION SHALL R TO PLANTING.

## TREE PROTECTION AREA (TPZ)

## KEEP OUT!

Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to: 1. Correction Notices or Stop Work Orders until compliance is achieved

ancial penalties	· 
·	Notes
nmending mitigation	1. No pruning shall be performed unless under the direction of the Project Arborist. Including limbing
ree Protection area. See	trees up.
e alignment.	2. No grading, excavation, storage (materials, equipment, vehicles, etc.), or other unpermitted activity
	shall occur inside the protective fencing.
	3. Penalties for damaging by root damage/compaction or removing a saved tree may be a fine up to
No.	three times the value of the tree plus restoration (MICC 19.10.160).
AN PA	4. Any work in approved TPZ must be with the permission of the City Arborist (206) 275-7713,
No Si Si	john.kenney@mercergov.org.
hez 2	5. 5" course woodchips within the tree protection zone, but not against the tree trunk.
Then	
Earl Pr	Tree protection fence: 4-6" chain link fence, solidly
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	anchored into the ground, or if authorized High-density
New -	polyethylene fencing with 3.5" x 1.5" openings; color
marting of the	orange. Steel posts installed at 8' o.c.
Se Magan & , &	
AND STORY	
Sol Stand	2" x 6" steel posts or approved equal
	Maintain existing grade with the tree protection fence
	unless otherwise indication on the plans
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DESIGN

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PERMIT SET

SITE PLAN

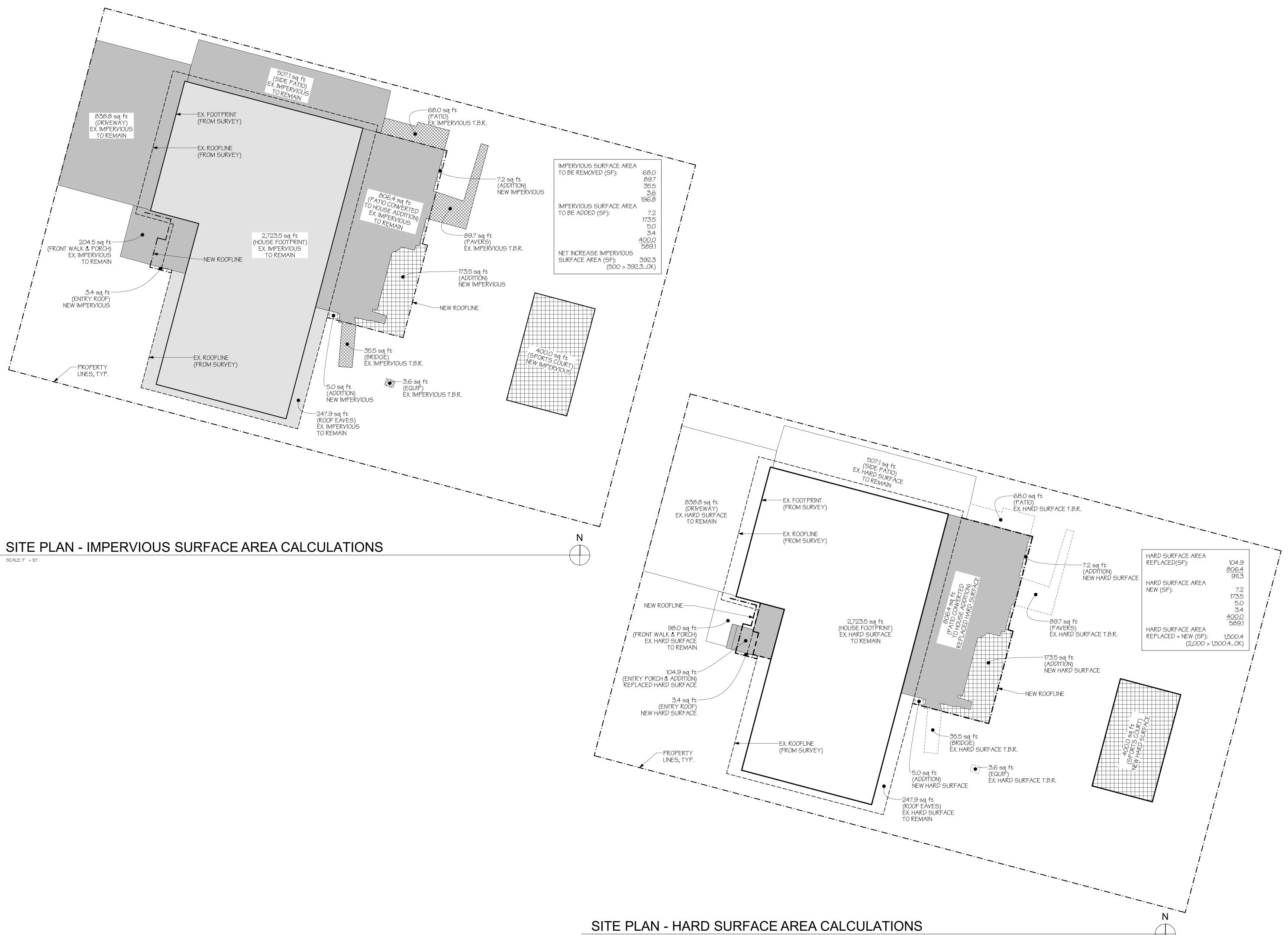
HEIDI MICHELLE HELGESON STATE OF WASHINGTON

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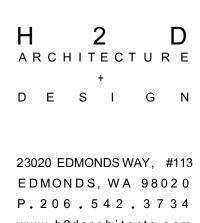
310



## **MERCER ISLAND WA 98040** RESIDENCE SЕ AVE 86TH RADER 7310





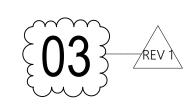


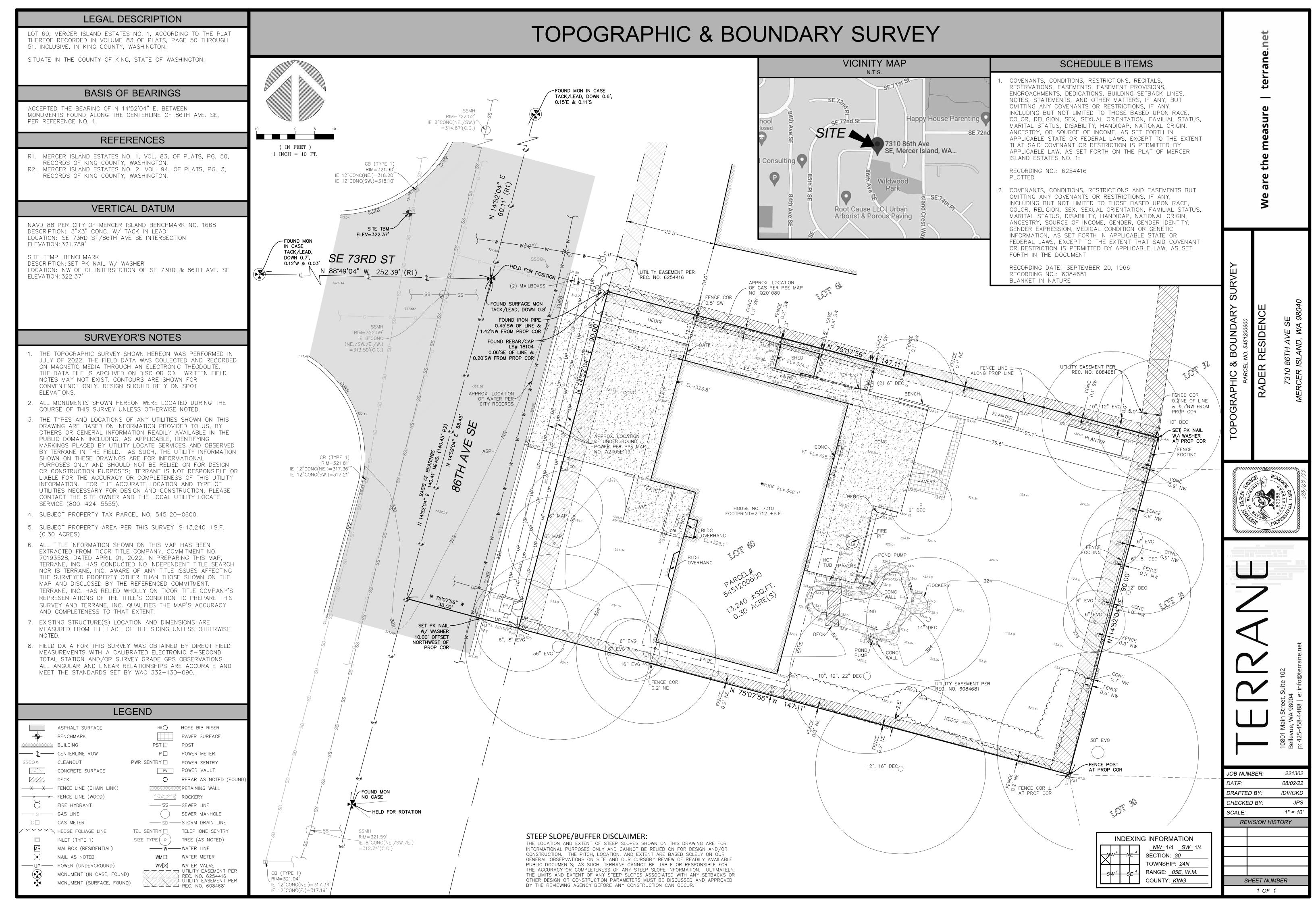
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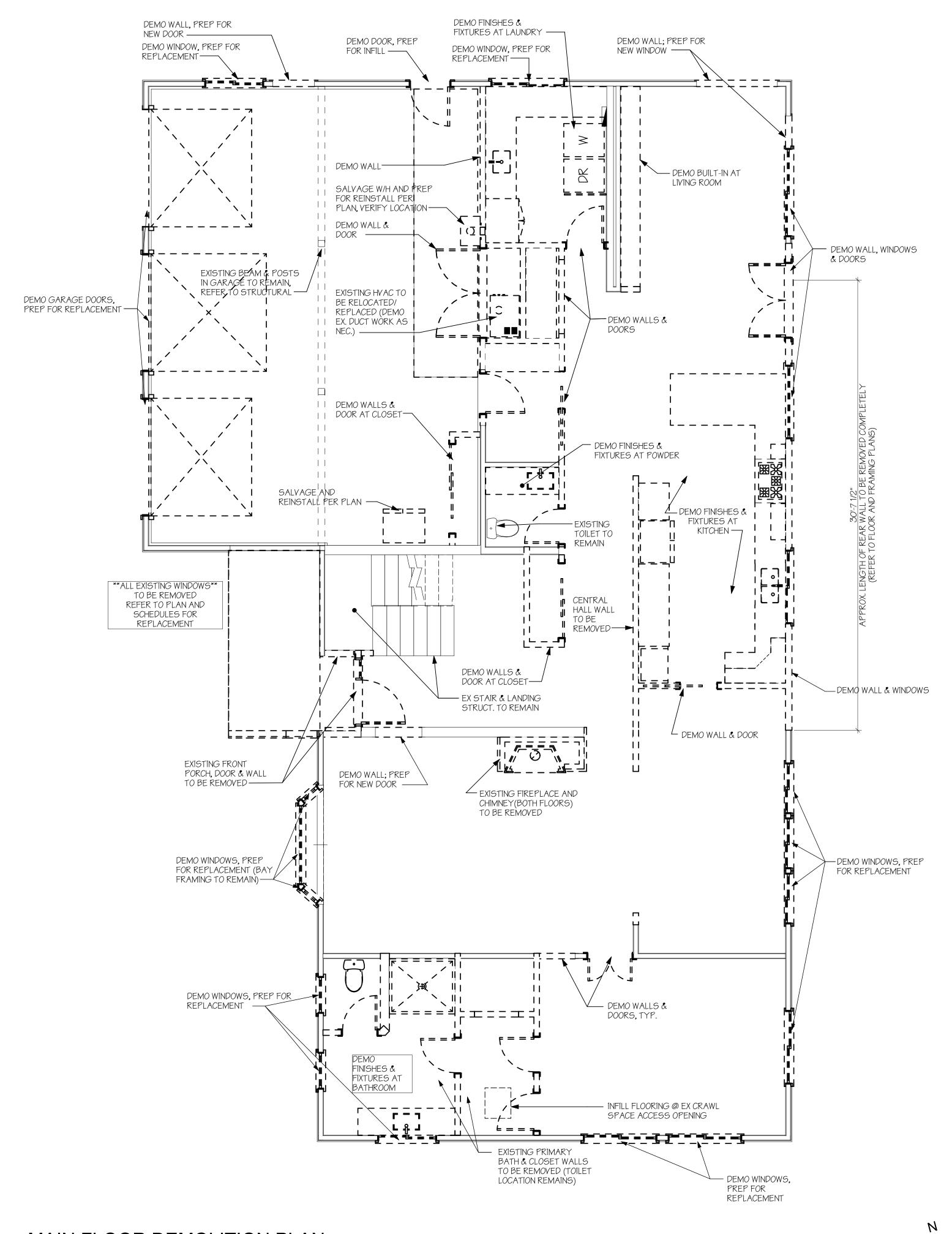
DATE: 12/23/2022 REV 1: 2/13/2023

## PERMIT SET

STORMWATER CALCULATIONS



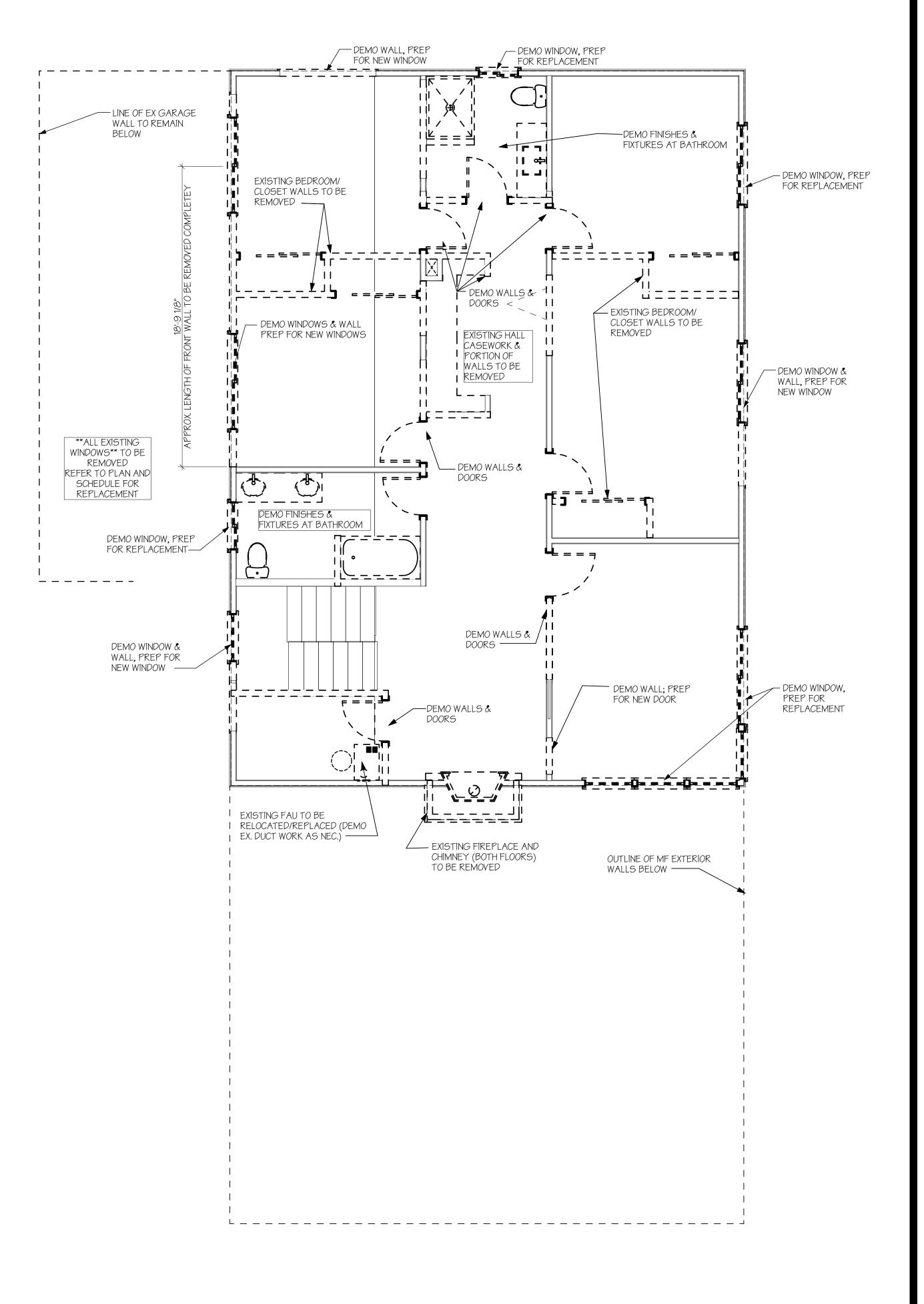




### MAIN FLOOR DEMOLITION PLAN SCALE: 1/4" = 1'-0"

EXISTING WALLS

NOTES: 1. VERIFY SALVAGE ITEMS WITH OWNER PRIOR TO DEMOLITION. 2. ALL SHORING TO BE THE RESPONSIBILITY OF THE BUILDER. CONTACT THE STRUCTURAL ENGINEER WITH QUESTIONS.



UPPER FLOOR DEMOLITION PLAN SCALE: 1/4" = 1'-0"

EXISTING WALLS

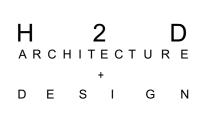
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NOTES: 1. VERIFY SALVAGE ITEMS WITH OWNER PRIOR TO DEMOLITION. 2. ALL SHORING TO BE THE RESPONSIBILITY OF THE BUILDER. CONTACT THE STRUCTURAL ENGINEER WITH QUESTIONS.

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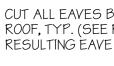
DATE: 12/23/2022 REV 1: 2/13/2023

PERMIT SET

MAIN AND UPPER FLOOR DEMOLITION PLANS



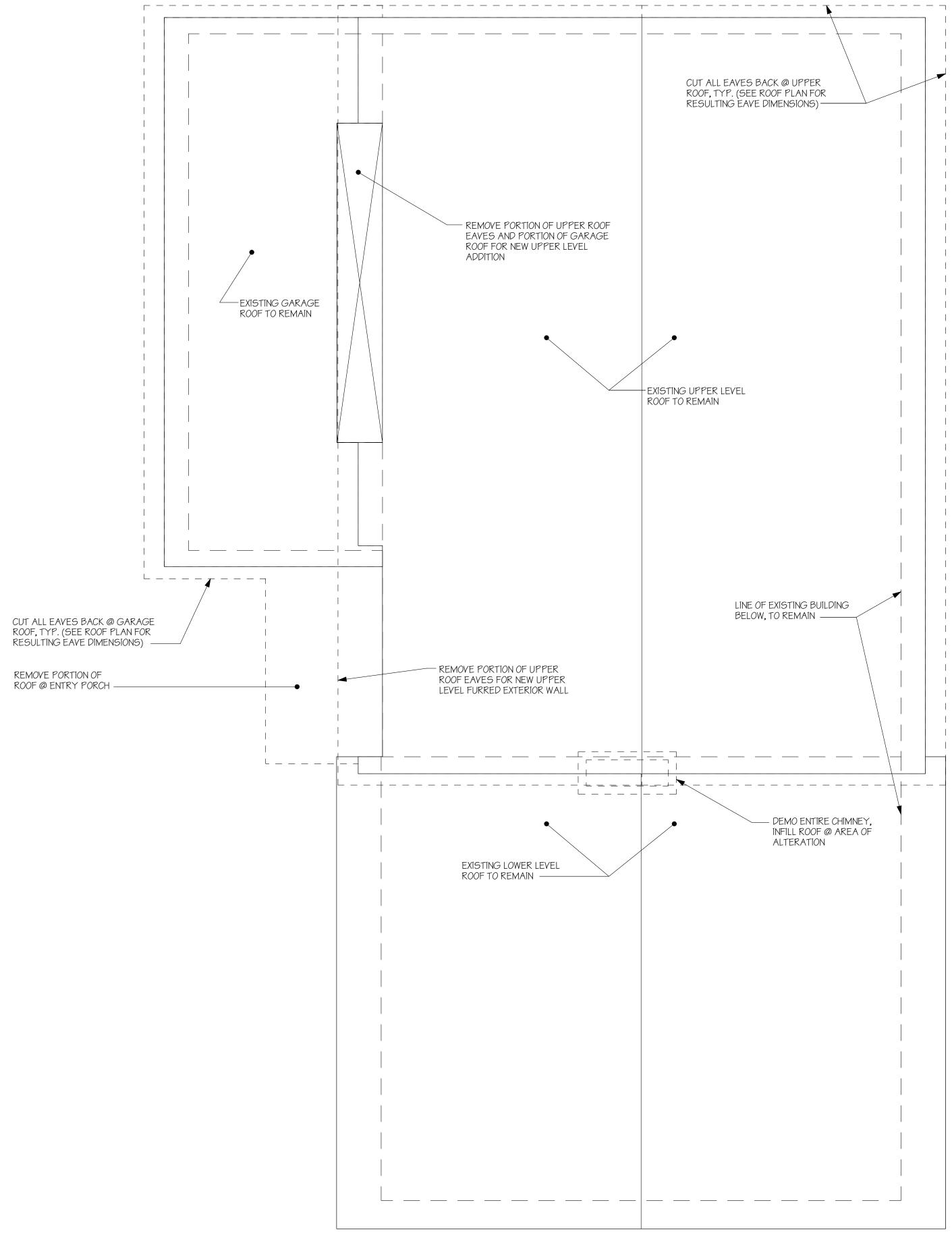
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REMOVE PORTION OF ROOF @ ENTRY PORCH -



EXISTING ROOF NOTES:



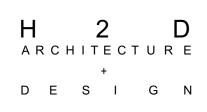
## **ROOF DEMOLITION PLAN**

1. VERIFY SALVAGE ITEMS WITH OWNER PRIOR TO DEMOLITION. 2. ALL SHORING TO BE THE RESPONSIBILITY OF THE BUILDER. CONTACT THE STRUCTURAL ENGINEER WITH QUESTIONS.

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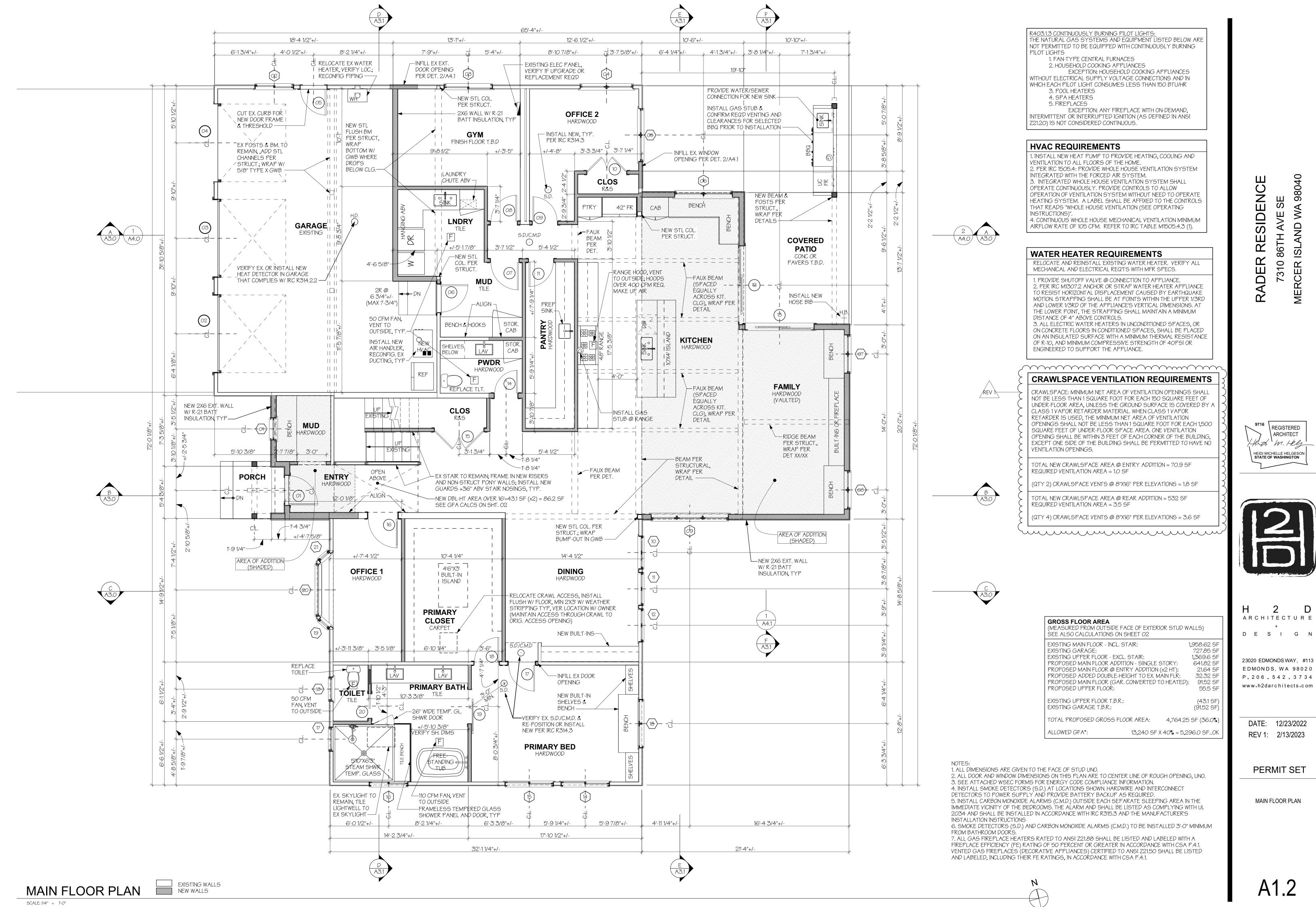
DATE: 12/23/2022 REV 1: 2/13/2023

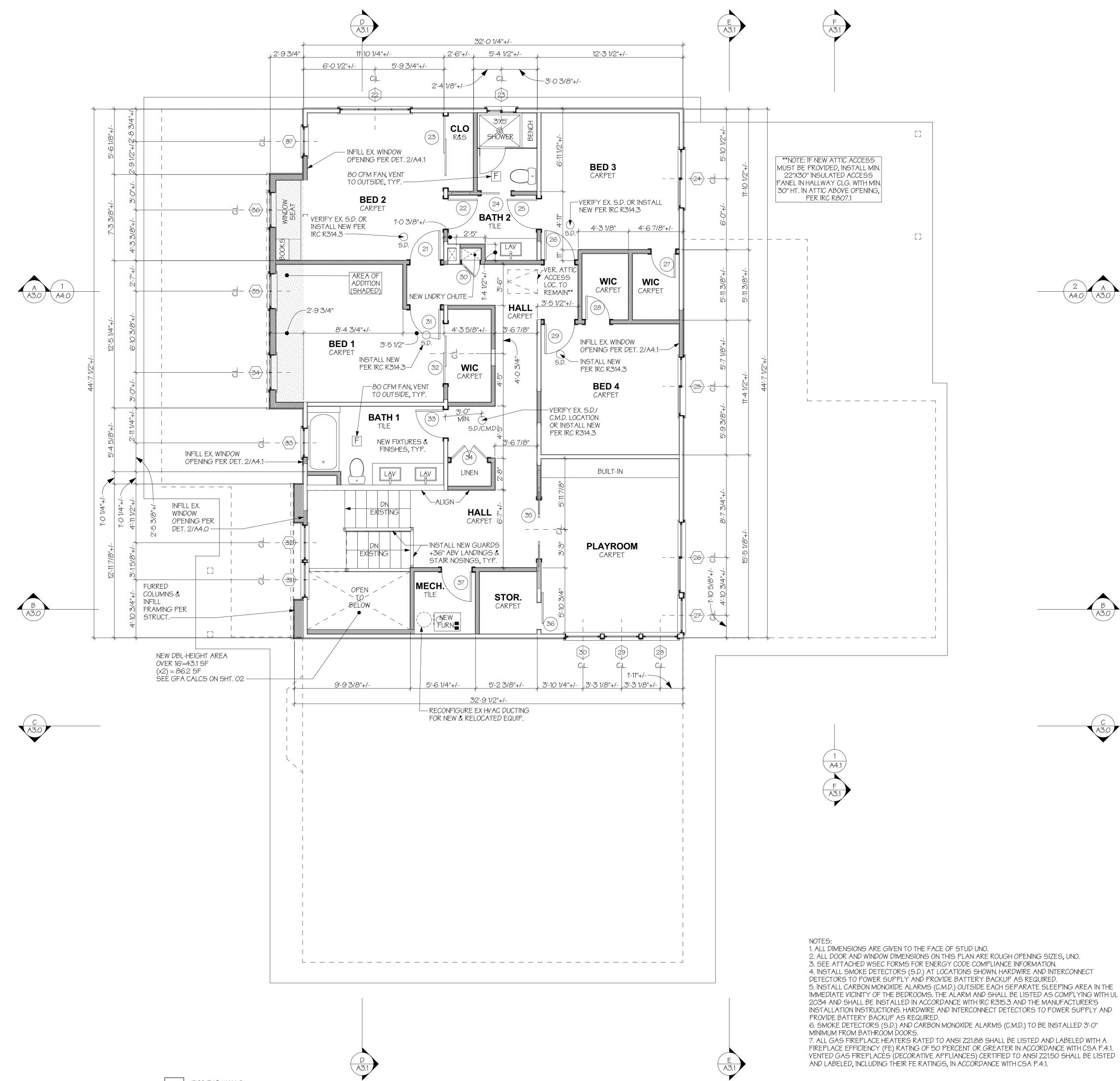
PERMIT SET

ROOF DEMOLITION PLAN

A1.1













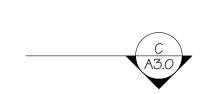
A1.3

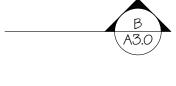
(MEASURED FROM OUTSIDE FACE OF EXTERIOR STUD WALLS) SEE ALSO CALCULATIONS ON SHEET 02 EXISTING MAIN FLOOR - INCL. STAIR: 1,958.62 SF 727.85 SF EXISTING GARAGE: EXISTING UPPER FLOOR - EXCL. STAIR: 1,369.6 SF PROPOSED MAIN FLOOR ADDITION - SINGLE STORY: 641.82 SF PROPOSED MAIN FLOOR @ ENTRY ADDITION (X2 HT): 21.64 SF PROPOSED ADDED DOUBLE-HEIGHT TO EX. MÀIN FLR: 32.32 SF PROPOSED MAIN FLOOR (GAR. CONVERTED TO HEATED): 91.52 SF PROPOSED UPPER FLOOR: 55.5 SF EXISTING UPPER FLOOR T.B.R.: (43.1 SF) (91.52 SF) EXISTING GARAGE T.B.R.: TOTAL PROPOSED GROSS FLOOR AREA: 4,764.25 SF (36.0%)

13,240 SF X 40% = 5,296.0 SF...OK

ALLOWED GFA\*:

**GROSS FLOOR AREA** 









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DESIGN

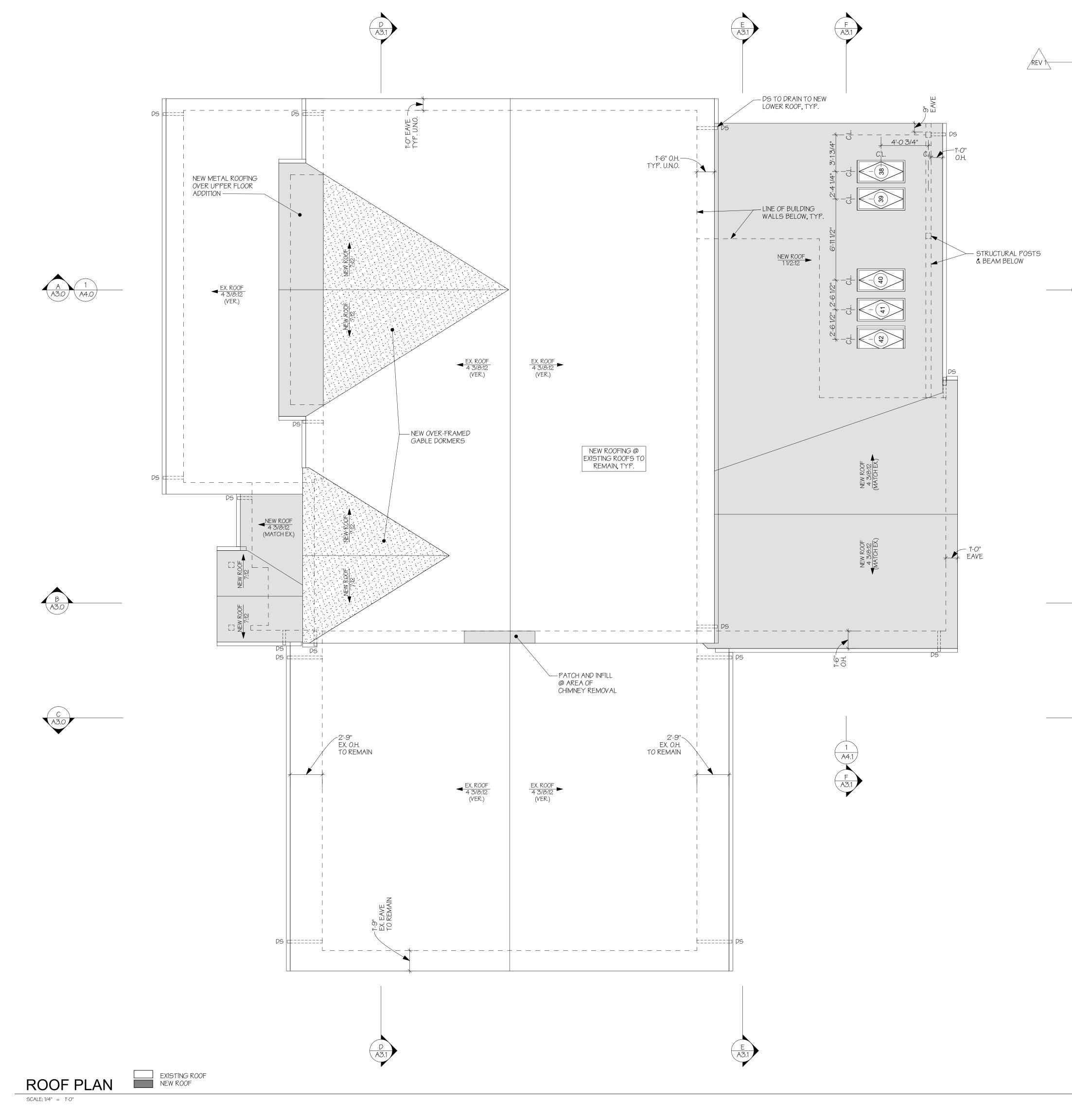
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PERMIT SET

UPPER FLOOR PLAN



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L	ATTIC VENTILATION REQUIREMENTS
	ATTIC VENTILATION NOTES:
	TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT REDUCTION OF THE TOTAL TO 1/300 IS PERMITTED PROVIDED THAT AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3' ABOVE THE EAVE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY THE EAVE VENTS.
	NEW ATTIC AREA @ ENTRY ADDITION = 53.8 SF REQUIRED VENTILATION AREA = .36 SF OR 51.8 SQ INCHES (17.7 SQ INCHES AT THE EAVE; 54 SQ INCHES AT RIDGE) PROVIDE CONTINUOUS RIDGE VENT (4 LIN. FT @ 13.5 SQ IN PER LIN FT) = 54 SQ IN PROVIDE (2) 1.5" DIAM CIRCLES PER BAY (5 BAYS) = 17.7 SQ INCHES MIN
	NEW ATTIC AREA @ REAR ADDITION = 535.4 SF REQUIRED VENTILATION AREA = 1.8 SF OR 259.2 SQ INCHES (162 SQ INCHES AT THE EAVE 135 SQ INCHES AT RIDGE) PROVIDE CONTINUOUS RIDGE VENT (10 LIN. FT @ 13.5 SQ IN PER LIN FT) = 135 SQ IN (45%) PROVIDE (3) 2.5" DIAM CIRCLES PER BAY (11 BAYS) = 162 SQ INCHES MIN
	NEW ATTIC AREA @ DORMER ADDITION = 44.3 SF REQUIRED VENTILATION AREA = .29 SF OR 41.7 SQ INCHES (12.6 SQ INCHES AT THE EAVE; 33.8 SQ INCHES AT RIDGE) PROVIDE CONTINUOUS RIDGE VENT (2.5 LIN. FT @ 13.5 SQ IN PER LIN FT) = 33.8 SQ IN PROVIDE (2) 2" DIAM CIRCLES PER BAY (2 BAYS) = 12.6 SQ INCHES MIN

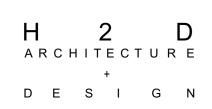
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ROOF PLAN

A1.4



DOOR SCHEDULE										
	ID		NSIONS *SEE NOTE 1		DIMENSIONS	TYPE	THICK	AREA	NOTES	U-VA
		WIDTH	HEIGHT	W	HT			(SF)		
1AIN FLOOR	1				1					1
	01	3'-2"	6'-10 1/2"	3'-0"	6'-8"	SWING 1	0'-1 3/4"	21.77	CONFIRM DOOR SELECTION W/ OWNER	0.20
	02	8'-1"	7'-1 3/4"	8'-0"	7'-0"	ROLL UP	0'-1 3/4"	0.00	GARAGE DOOR, CONFIRM STYLE/SIZE W/ OWNER	
	03	8'-1"	7'-1 3/4"	8'-0"	7'-0"	ROLL UP	0'-1 3/4"	0.00	GARAGE DOOR, CONFIRM STYLE/SIZE W/ OWNER	
	04	8'-1"	7'-1 3/4"	8'-0''	7'-0"	ROLL UP	0'-1 3/4"	0.00	GARAGE DOOR, CONFIRM STYLE/SIZE W/ OWNER	
	05	2'-10"	6'-10 1/2"	2'-8"	6'-8"	SWING 2	0'-1 3/4"	0.00		
	06	3'-0"	6'-10 1/2''	2'-10''	6'-8"	SWING 3	0'-1 3/8"	18.89	1-3/8" S.C. 20 MIN RATED DR W/ SELF CLOSER	
	07	3'-0''	6'-10 1/2''	2'-10''	6'-8"	SWING 4	0'-1 3/8"	0.00		
	08	2'-10''	6'-10 1/2"	2'-8"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	09	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	10	4'-2"	6'-10 1/2''	4'-0''	6'-8"	SWING 5	0'-1 3/8"	0.00	FRENCH STYLE CLOSET DOOR	
	11	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	12	8'-2"	6'-10 1/2"	8'-0''	6'-8"	S.G.D.	0'-1 3/4"	56.15	TEMPERED	0.28
	13	7'-2"	6'-10 1/2"	7'-0''	6'-8"	S.G.D.	0'-1 3/4"	49.27	TEMPERED	0.28
	14	2'-6"	6'-10 1/2"	2'-4"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	15	5'-2"	6'-10 1/2"	5'-0''	6'-8"	SWING 5	0'-1 3/8"	0.00	FRENCH STYLE CLOSET DOOR	
	16	3'-2"	6'-10 1/2"	3'-0"	6'-8"	SWING 6	0'-1 3/8"	0.00	TEMPERED. CLEAR GLAZING	
	17	2'-10"	6'-10 1/2"	2'-8"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	18	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	19	3'-7"	6'-10 1/2"	3'-6"	6'-8"	BARN	0'-1 3/8"	0.00	VER PANEL MIN 3" WIDER @ EA SIDE AND TOP THAN F.O.	
	20	2'-7"	6'-10 1/2"	2'-6"	6'-8"	POCKET	0'-1 3/8"		VER R.O. W/ SELECTED PCKT DR MFR	
PPER FLOOR										
	21	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	22	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-13/8"	0.00		
	23	6'-2"	6'-10 1/2"	6'-0"	6'-8"	BI-PASS	0'-13/8"	0.00		
	20	2'-7"	6'-10 1/2"	2'-6"	6'-8"	POCKET	0'-13/8"	0.00	VER R.O. W/ SELECTED PCKT DR MFR	
	25	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-13/8"	0.00		
	20	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	20	2'-2"	6'-10 1/2"	2'-0"	6'-8"	SWING 4	0'-1 3/8"	0.00		
		2'-2"								
	28		6'-10 1/2"	2'-0"	6'-8"	SWING 4	0'-13/8"	0.00		
	29	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-13/8"	0.00		
	30	1'-8"	3'-2 1/2"	1'-6"	3'-0"	VERIFY STYLE	0'-13/8"	0.00	1-3/8" S.C. DR W/ SELF-CLOSER , VERIFY INSTALL HT.	
	31	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-13/8"	0.00		
	32	5'-2"	6'-10 1/2"	5'-0"	6'-8"	BI-PASS	0'-13/8"	0.00		
	33	2'-6"	6'-10 1/2"	2'-4"	6'-8"	SWING 4	0'-1 3/8"	0.00		
	34	3'-2"	6'-10 1/2"	3'-0"	6'-8"	SWING 5	0'-1 3/8"	0.00		
	35	5'-0 1/2"	6'-10 1/2"	5'-0''	6'-8"	DBL POCKET	0'-1 3/8"	0.00	VER R.O. W/ PCKET DR MFR; TEMPERED	
	36	2'-4"	6'-9"	2'-6"	6'-10''	BARN	0'-1 3/8"	0.00	VER PANEL 3" WIDER @ EA SIDE AND TOP THAN F.O.	
	37	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING 4	0'-1 3/8"	0.00		

MANUFACTURER: INTERIOR: SIMPSON OR EQUAL SOLID CORE DR, PANEL STYLE PER INTERIOR DESIGNER, PAINT GRADE OR PER INTERIOR DESIGNER

EXTERIOR: TO BE SELECTED

EXTERIOR DOORS TO BE NFRC 100 LABELED AND CERTIFIED BY THE MANUFACTURER.

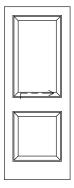
NOTES:

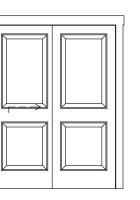
1. VERIFY ROUGH OPENING SIZES WITH SELECTED MANUFACTURER REQUIREMENTS

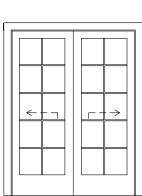
2. SEE ELEVATIONS FOR CONFIGURATION 3. VERIFY ALL SIZES AND ROUGH OPENINGS PRIOR TO CONSTRUCTION

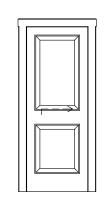
4. CONTACT ARCHITECT IMMEDIATELY WITH QUESTIONS

5. SEE SCHEDULE FOR DOOR SIZES

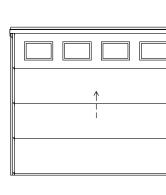








POCKET

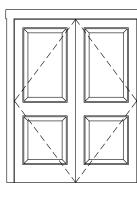


BARN

<u>BI-PASS</u>

DBL POCKET







<u>SWING 1</u>

SWING 2

<u>SWING 3</u>

SWING 4

<u>SWING 5</u>

WINDOW SCHEDULE									
	ID	ROUGH OF WIDTH	PENING *SEE NOTE 1 HEIGHT	ROUGH HEAD FROM SUBFLR.	TYPE	OPER	AREA (SF)	NOTES	U-VA
MAIN FLOOR						1	1		
	01	2'-4"	2'-4"	6'-10 1/2"	В	P	5.40		0.28
	02	4'-0"	4'-0"	6'-6 1/4"	F	H.S.	16.00	VERIFY H.H. FROM EX GARAGE SLAB, VER FIT EX R.O.	N/A
	03	5'-0''	3'-0"	6'-10 1/2"	F	H.S.	15.00	VERIFY FIT IN EX R.O.	0.28
	04	5'-6"	4'-O''	6'-10 1/2"	А	C/C	22.00	FRENCH CASEMENT	0.28
	05	5'-6"	4'- <i>O</i> ''	6'-10 1/2"	А	C/C	22.00	FRENCH CASEMENT	0.28
	06	6'-0''	5'-0''	6'-10 1/2"	А	C/C	30.00	FRENCH CASEMENT	0.28
	07	4'-0''	5'-0''	6'-10 1/2"	А	C/C	20.00	FRENCH CASEMENT	0.28
	08	4'-0''	5'-0"	6'-10 1/2"	А	C/C	20.00	FRENCH CASEMENT	0.28
	09	8'-0''	5'-0"	6'-10 1/2"	С	C/C	40.00	FRENCH CASEMENT	0.28
	10	3'-5"	5'-0"	6'-10 1/2"	А	C/C	17.00	FRENCH CASEMENT; VER FIT EX R.O.	0.28
	11	3'-5"	5'-0"	6'-10 1/2"	А	C/C	17.00	FRENCH CASEMENT; VER FIT EX R.O.	0.28
	12	3'-5"	5'-0"	6'-10 1/2"	А	C/C	17.00	FRENCH CASEMENT; VER FIT EX R.O.	0.28
	13	5'-0''	5'-0"	6'-10 1/2"	А	C/C	25.00	FRENCH CASEMENT; EGRESS	0.28
	14	5'-0''	2'-0"	6'-10 1/2"	F	H.S.	10.00	VER FIT IN EX R.O.	0.28
	15	5'-0''	2'-0"	6'-10 1/2"	F	H.S.	10.00	VER FIT IN EX R.O.	0.28
	16	4'-0''	1'-4"	6'-10 1/2"	F	H.S.	5.30	TEMPERED; TRANSLUCENT; VER FIT IN EX R.O.	0.28
	17	2'-6"	1'-6"	6'-10 1/2"	E	А	3.75	TEMPERED; TRANSLUCENT; VER FIT IN EX R.O.	0.28
	18	2'-6"	1'-6"	6'-10 1/2"	E	А	3.75	VER FIT IN EX R.O.	0.28
	19	1'-5"	5'-5"	6'-10 1/2"	D	С	7.67	VER FIT IN EX R.O.	0.28
	20	5'-5"	5'-5"	6'-10 1/2"	В	P	29.34	VER FIT IN EX R.O.	0.28
	21	1'-5"	5'-5"	6'-10 1/2"	D	С	7.67	VER FIT IN EX R.O.	0.28
PPER FLOOR									
	22	6'-0''	2'-0"	6'-10 1/2"	E	А	1.00	VERIFY FIT IN EX R.O.	0.28
	23	2'-6"	2'-0"	6'-10 1/2"	F	H.S.	5.00	VERIFY FIT IN EX R.O.	0.28
	24	5'-0''	4'-0"	6'-10 1/2"	F	H.S.	20.00	EGRESS	0.28
	25	5'-0''	4'-O''	6'-10 1/2"	F	H.S.	20.00	EGRESS	0.28
	26	6'-0''	3'-0"	6'-10 1/2"	F	H.S.	18.00	VERIFY FIT IN EX R.O.	0.28
	27	3'-0"	3'-0"	6'-10 1/2"	В	P	9.00	VERIFY FIT IN EX R.O.	0.28
	28	3'-0''	3'-0"	6'-10 1/2"	В	P	9.00	VERIFY FIT IN EX R.O.	0.28
	29	3'-0''	3'-0"	6'-10 1/2"	В	P	9.00	VERIFY FIT IN EX R.O.	0.28
	30	3'-0"	3'-0"	6'-10 1/2"	В	P	9.00	VERIFY FIT IN EX R.O.	0.28
	31	3'-0"	4'-6"	7'-4"	В	P	13.50		0.28
	32	3'-0''	4'-6"	7'-4"	В	P	13.50		0.28
	33	2'-6"	2'-6''	6'-10 1/2"	D	С	6.25		0.28
	34	3'-0"	3'-8"	6'-10 1/2"	D	С	11.00	EGRESS	0.28
	35	3-0"	3'-8"	6'-10 1/2"	D	С	11.00		0.28
	36	3-0"	3'-8"	6'-10 1/2''	D	С	11.00	EGRESS	0.28
	37	2'-6"	2'-6"	6'-10 1/2''	D	С	6.25		0.28
00F - RIDGE									
	38	1'-10''	4'-0"			FIXED	7.33	SKYLIGHT, VELUX OR EQ CURB MTD, FIXED	0.50
	39	1'-10''	4'-0"			FIXED	7.33	SKYLIGHT, VELUX OR EQ CURB MTD, FIXED	0.50
	40	1'-10''	4'-0"			FIXED	7.33	SKYLIGHT, VELUX OR EQ CURB MTD, FIXED	0.50
	41	1'-10''	4'-0"			FIXED	7.33	SKYLIGHT, VELUX OR EQ CURB MTD, FIXED	0.50
	42	1'-10''	4'-0"			FIXED	7.33	SKYLIGHT, VELUX OR EQ CURB MTD, FIXED	0.50
TAL EXTERIOR	WINDOW	V AREA:					553.03		

NFRC 100 LABELED AND CERTIFIED BY THE MANUFACTURER

MANUFACTURER: MARVIN OR SELECTED SERIES: ALUMINUM CLAD, T.B.S.

NOTES:

1. ADD 1/2" TO THE BOTTOM OF THE ROUGH OPENING, UNLESS NOTED OTHERWISE FOR INSTALLATION OF BEVEL SILL 1. VERIFY ROUGH OPENING SIZES WITH SELECTED MANUFACTURER REQUIREMENTS 2. SEE ELEVATIONS FOR CONFIGURATION

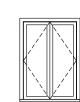
3. VERIFY ALL SIZES AND ROUGH OPENINGS PRIOR TO CONSTRUCTION 4. VERIFY EXISTING ROUGH OPENINGS WHERE WINDOWS ARE BEING REPLACED IN THE EXISTING OPENINGS PRIOR TO

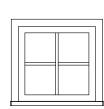
ORDERING THE WINDOWS 5. CONTACT ARCHITECT IMMEDIATELY WITH QUESTIONS

6. TRANSLUCENT GLASS TO BE SATIN ETCH. PROVIDE GLASS SAMPLE TO OWNER/ARCH FOR APPROVAL PRIOR TO ORDERING

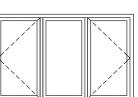
7. ALL WINDOWS IN SHOWERS TO BE VINYL, FIBERGLASS OR RATED FOR USE IN WET LOCATION. VERIFY CONFIGURATION OF SHOWER WINDOWS WITH OWNER PRIOR TO ORDERING. 8. "EGRESS" MEANS EMERGENCY ESCAPE AND RESCUE OPENING PER IRC SEC R310.2. WINDOW SHALL HAVE CLEAR

OPENING DIMENSIONS OF 5.7 SF, WITH MIN. NET CLEAR HT OF 24" AND NET CLEAR WIDTH OF 20", AND A SILL HT. OF NOT MORE THAN 44" ABOVE FIN. FLR.





B



<u>C</u>

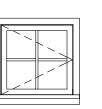
<u>A</u>

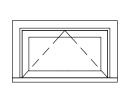


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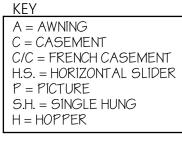
SWING 6

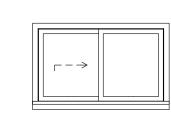




 $\underline{\mathsf{D}}$ 

E



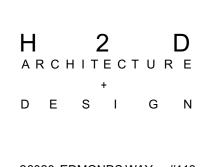


F

# **MERCER ISLAND WA 98040** RADER RESIDENCE 7310 86TH AVE SE







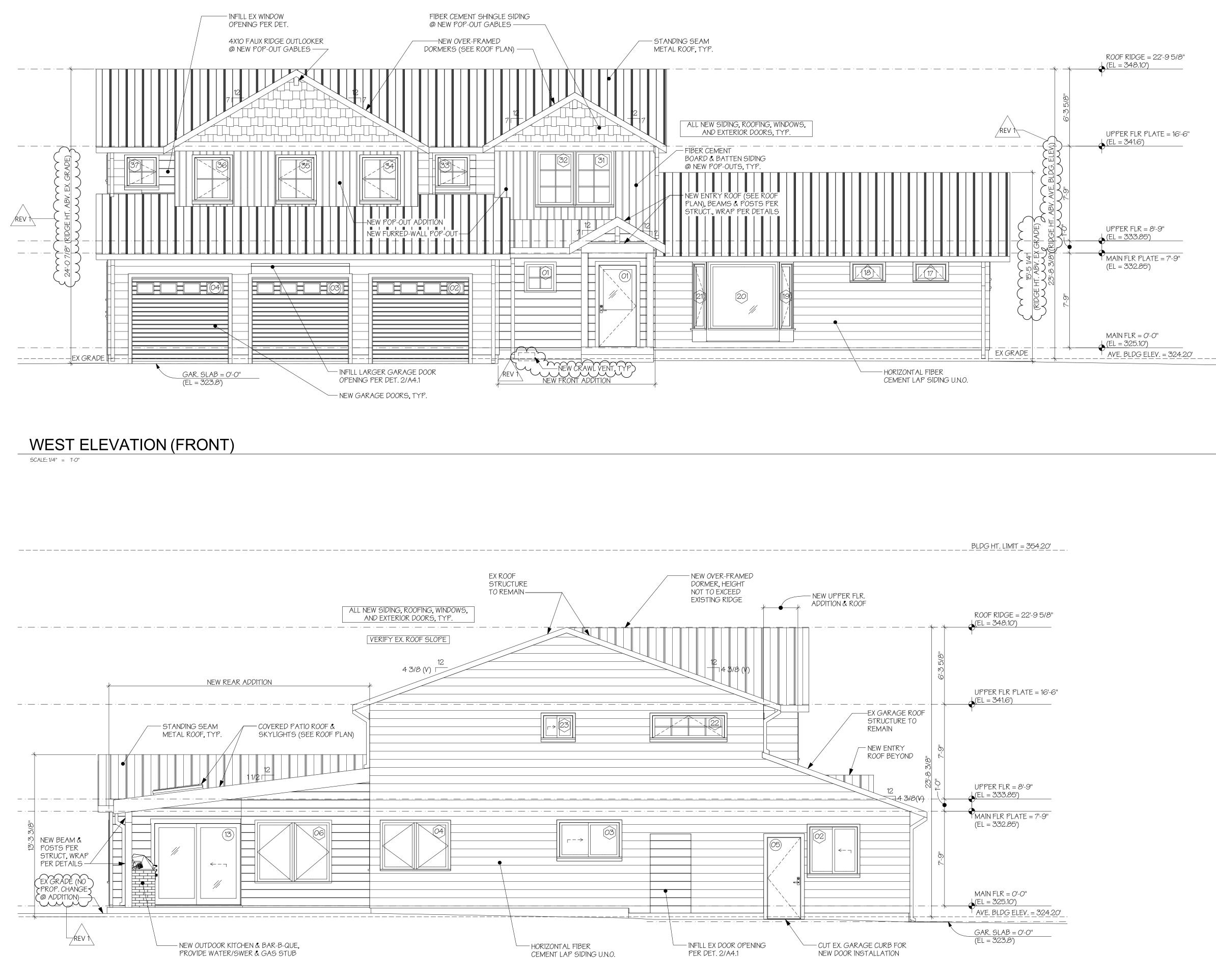
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DATE: 12/23/2022 REV 1: 2/13/2023

## PERMIT SET

WINDOW AND DOOR SCHEDULES

A1.5



NORTH ELEVATION SCALE: 1/4" = 1'-0"

PERMIT SET

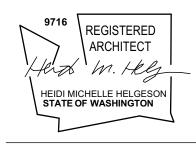
DATE: 12/23/2022 REV 1: 2/13/2023

EXTERIOR ELEVATIONS

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Н 2 2 ARCHITECTUR E DESIGN



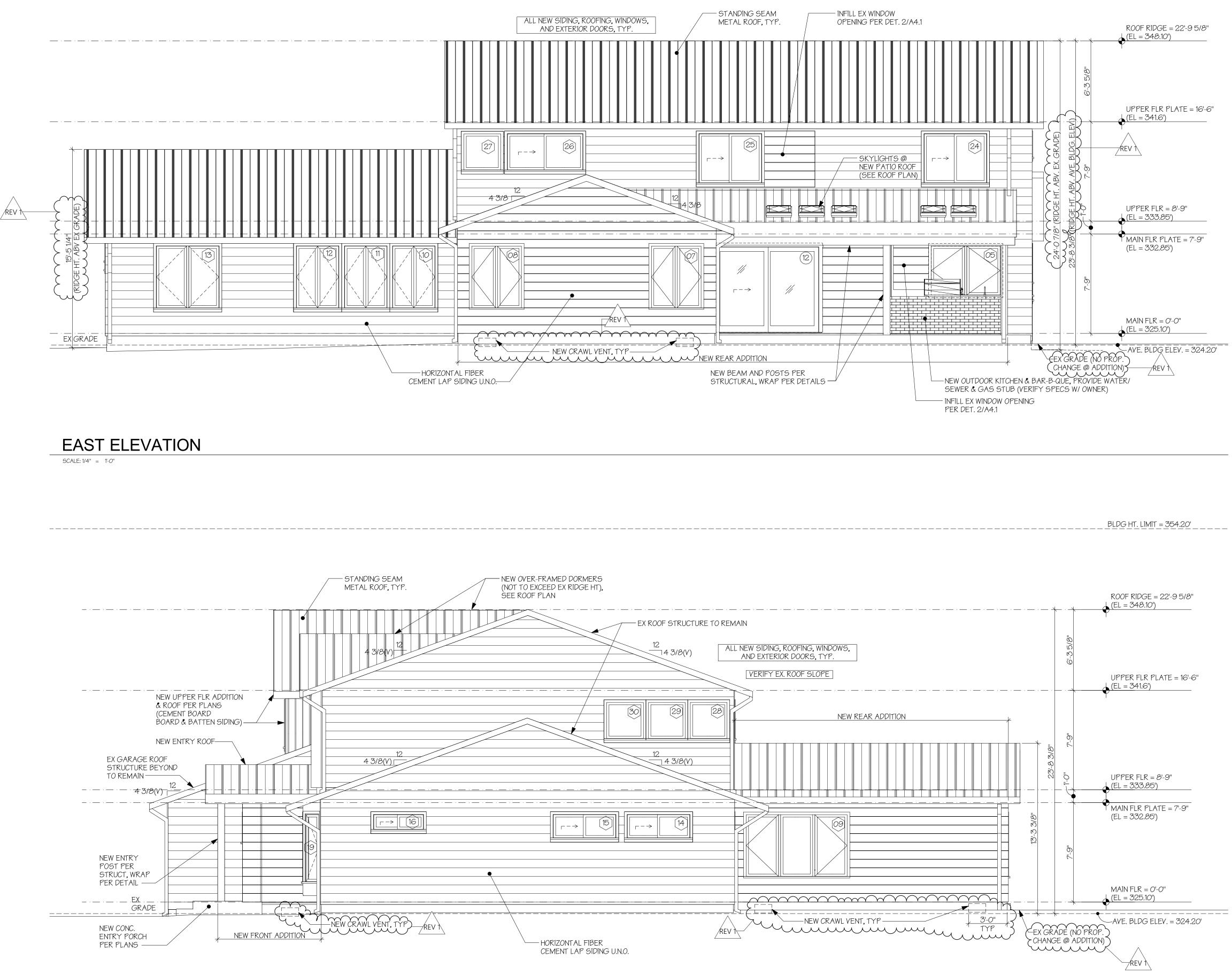


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98040

A2.0

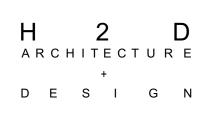


SOUTH ELEVATION SCALE: 1/4" = 1'-0"

8040 SIDENCE Ő MA Ш AND К Ш MERCER ISL . 900 800 RADER 310







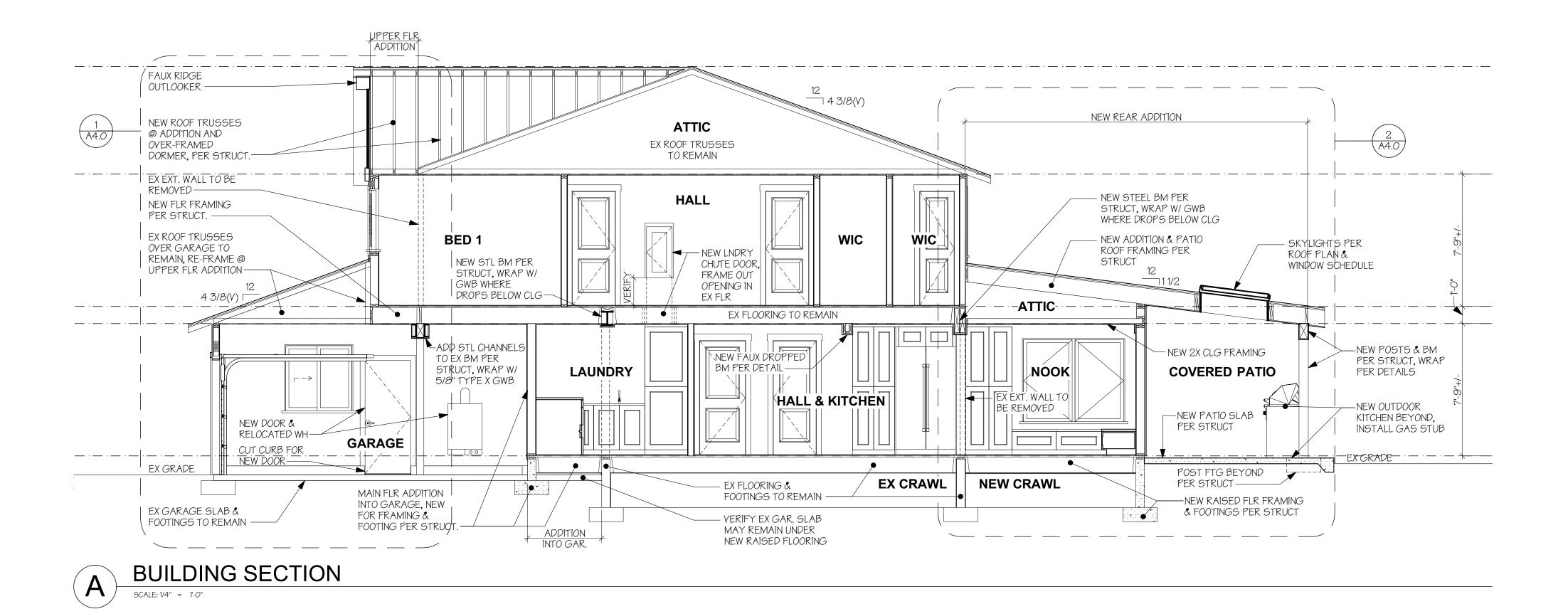
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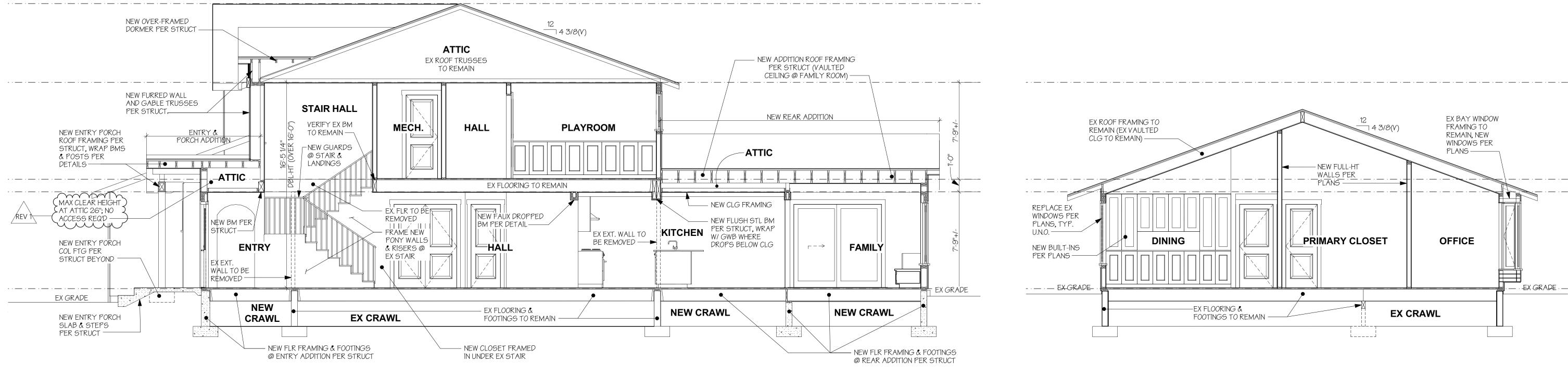
> DATE: 12/23/2022 REV 1: 2/13/2023

PERMIT SET

EXTERIOR ELEVATIONS

A2.'



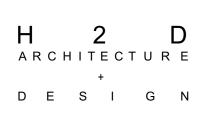




# RADER RESIDENCE 7310 86TH AVE SE MERCER ISLAND WA 98040







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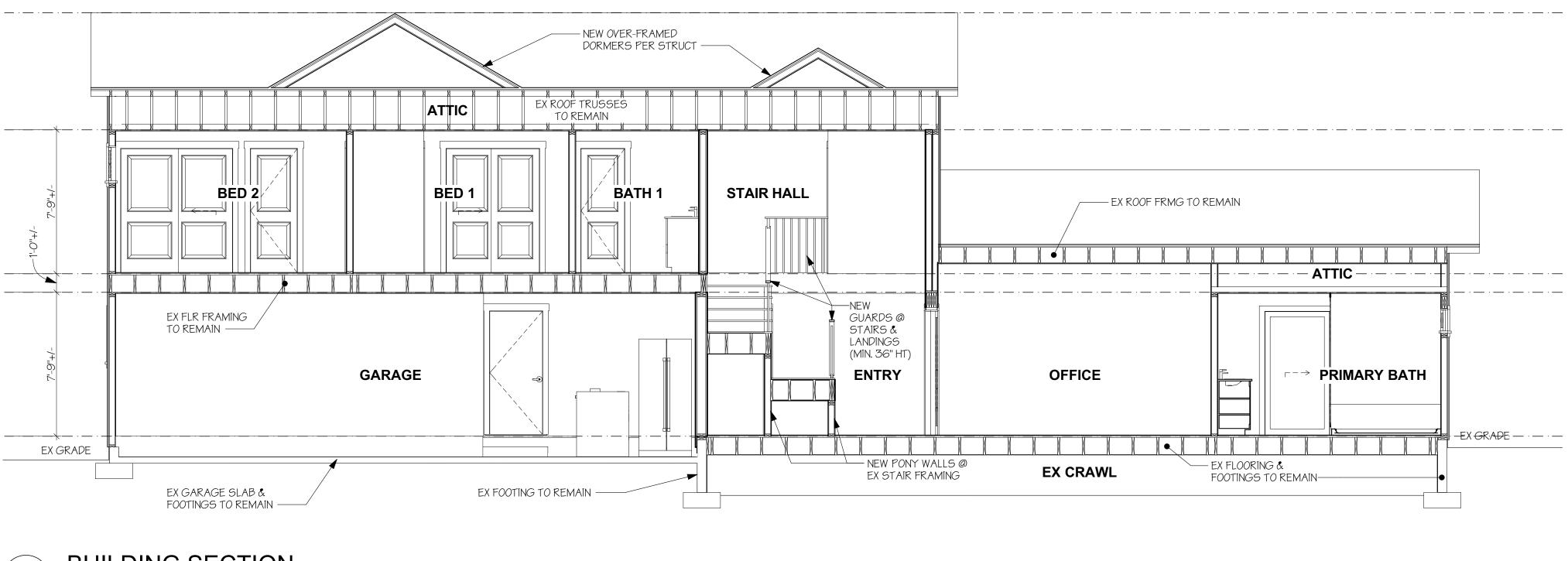
DATE: 12/23/2022 REV 1: 2/13/2023

PERMIT SET

BUILDING SECTIONS

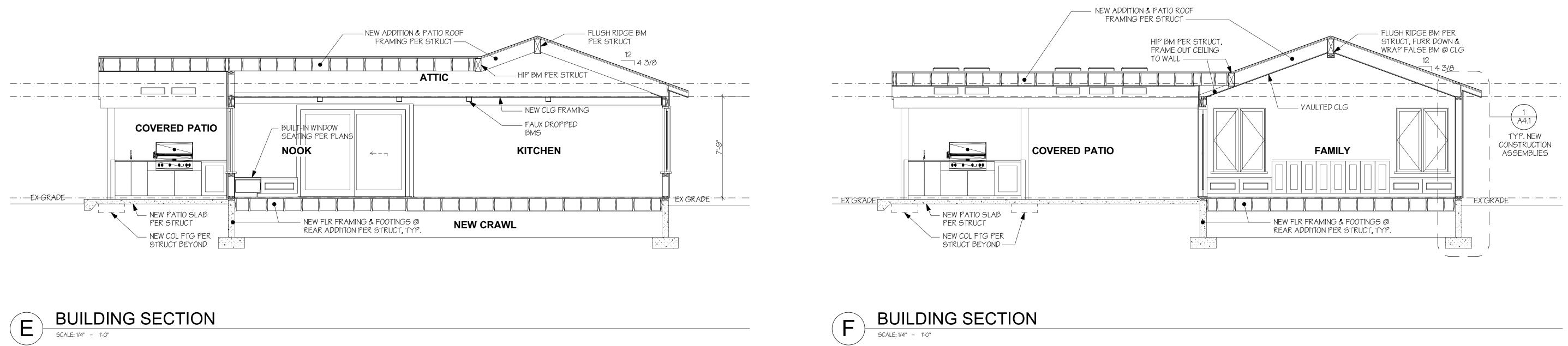
**BUILDING SECTION** 

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





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

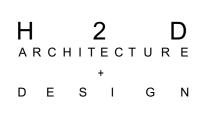










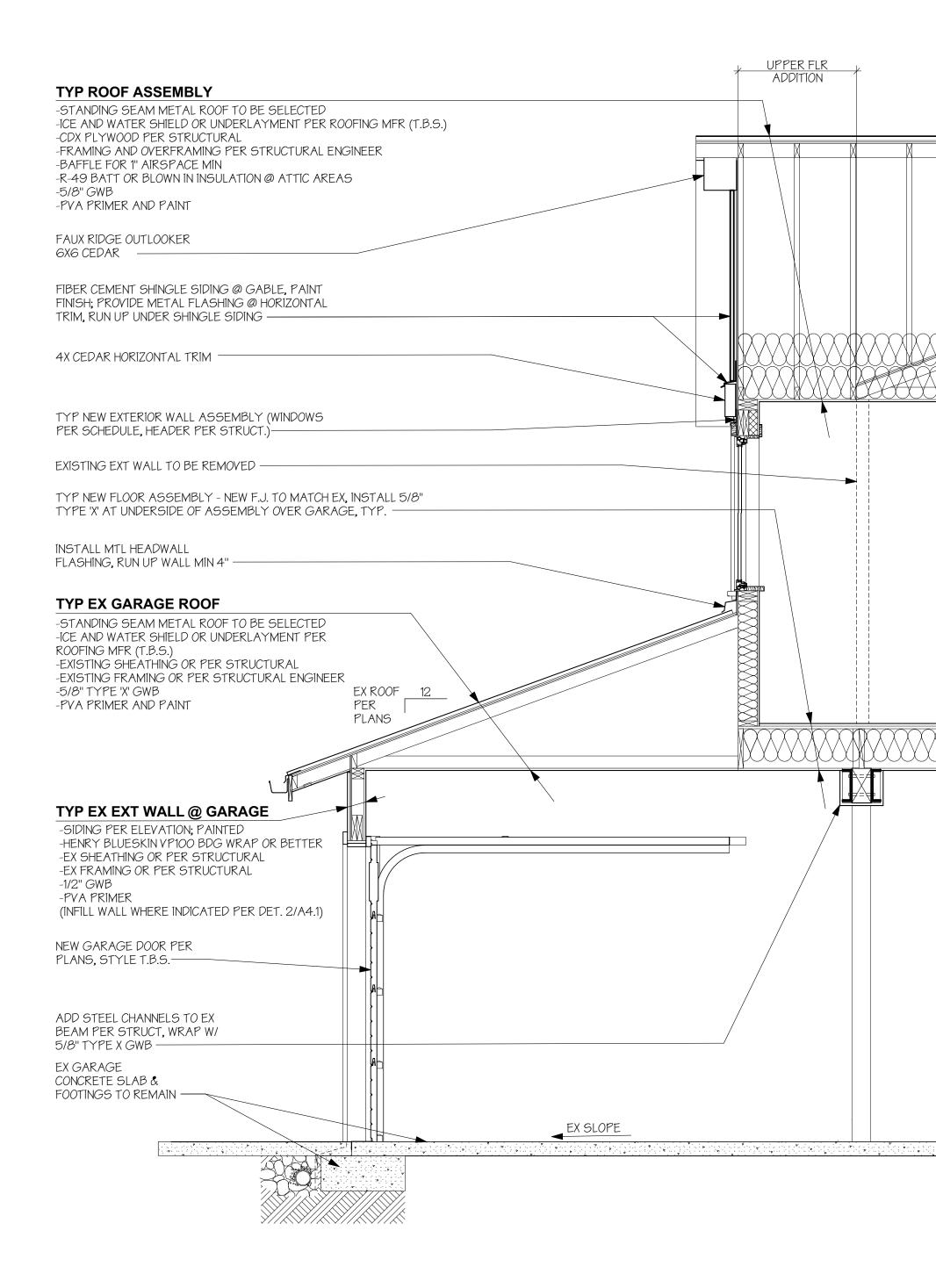


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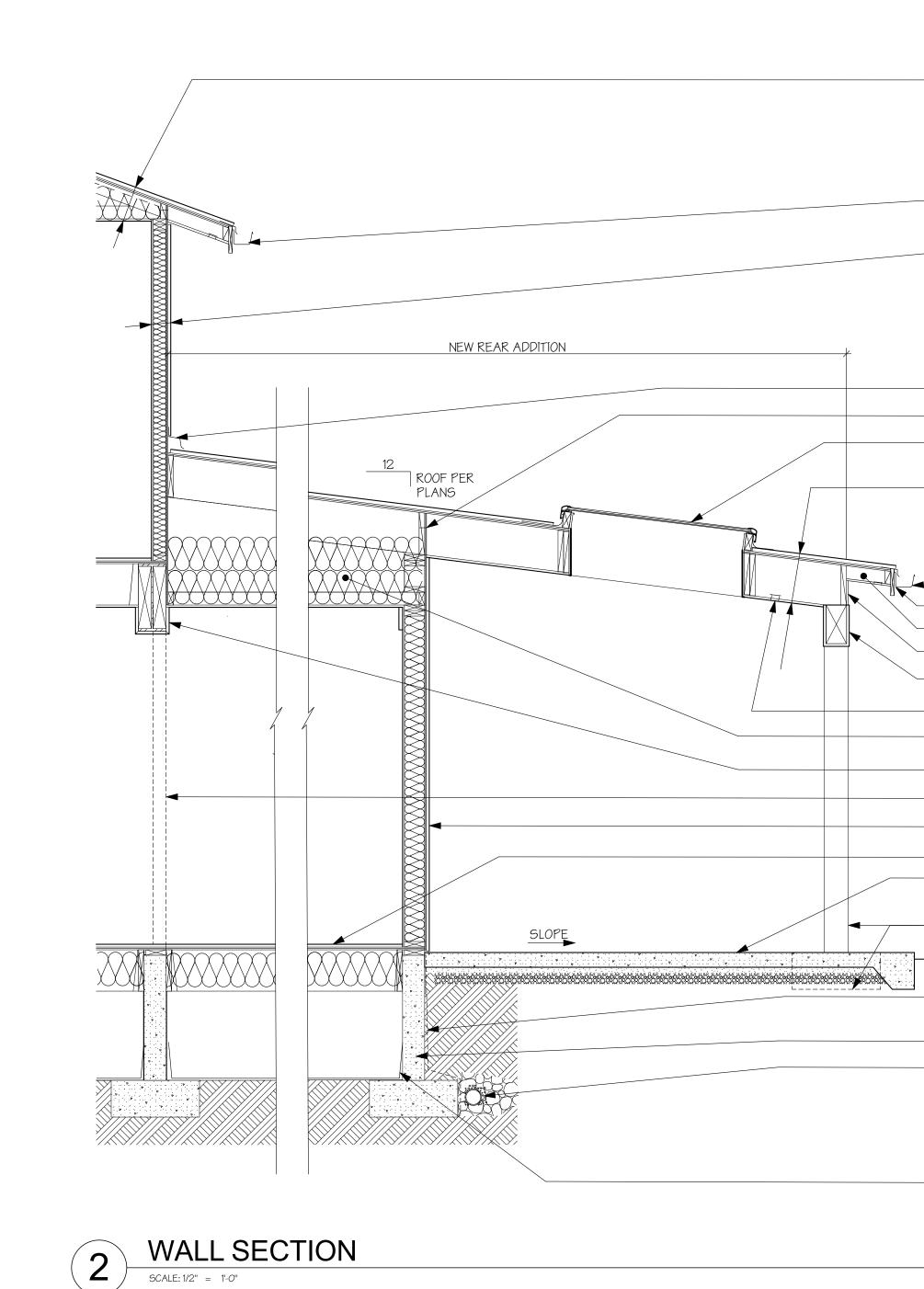
DATE: 12/23/2022 REV 1: 2/13/2023

## PERMIT SET

**BUILDING SECTIONS** 



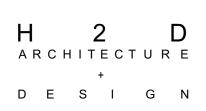




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## PERMIT SET

WALL SECTIONS

-PVA PRIMER AND PAINT - TYP EAVE ASSEMBLY TYP EXIST. EXT WALL ASSEMBLY -SIDING PER ELEVATION; PAINTED -HENRY BLUESKIN VP100 BDG WRAP OR BETTER -EX SHEATHING OR PER STRUCTURAL -EX FRAMING OR PER STRUCTURAL -EX INSULATION OR FILL EXPOSED EX 2X4 BAYS W/ R-15 H.D. BATT OR FILL EXPOSED EX 2X6 BAYS W/ R-21 BATT INSULATION -EXISTING FINISH WALL OR 1/2" GWB -PVA PRIMER - INSTALL MTL HEADWALL FLASHING, RUN UP WALL MIN 8" (3) 2-1/2" DIAMETER HOLES PER BAY W/ NON-CORROSIVE WIRE INSECT SCREEN - SKYLIGHTS PER ROOF PLAN & WINDOW SCHEDULE, REFER TO DETAIL TYP PATIO ROOF ASSEMBLY -STANDING SEAM METAL ROOF TO BE SELECTED -ICE AND WATER SHIELD OR UNDERLAYMENT PER ROOFING MFR (T.B.S.) -CDX PLYWOOD PER STRUCTURAL -FRAMING AND OVERFRAMING PER STRUCTURAL ENGINEER -1/2" T&G SOFFIT, PAINTED K STYLE METAL GUTTER, TYP - 5/4X8 PRE-PRIMED CEDAR FASCIA. TYP - TYP EAVE ASSEMBLY - 1/2" SIDING ABOVE BEAM, PAINT FINISH - BEAM PER STRUCTURAL, WRAP PER DETAIL 2" CONTINUOUS FLUSH VENT W/NON CORROSIVE WIRE SCREEN - R-49 BATT INSULATION ABV HEATED AREAS, SEE ALSO 1/A4.1 - NEW STEEL BEAM PER STRUCTURAL, WRAP PER DETAIL - EXISTING WALL TO BE REMOVED - TYP NEW EXTERIOR WALL ASSEMBLY - TYP NEW FLOOR ASSEMBLY – PATIO PER STRUCTURAL, FINISH T.B.S.

-POST AND FTG BEYOND PER STRUCT

TYP EXIST ROOF ASSEMBLY

-STANDING SEAM METAL ROOF TO BE SELECTED -ICE AND WATER SHIELD OR UNDERLAYMENT PER ROOFING MFR (T.B.S.)

-EXISTING FRAMING OR PER STRUCTURAL ENGINEER

-EXISTING SHEATHING OR PÉR STRUCTURAL

-EXISTING FINISH CEILING OR 5/8" GWB

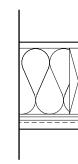
- DRAINBOARD OVER TREMPROOF 250GC, XYPEX OR APPROVED EQUAL WATERPROOFING @ BELOW GRADE FOUNDATIONS, TYP NEW FOUNDATION AND FOOTING PER STRUCTURAL

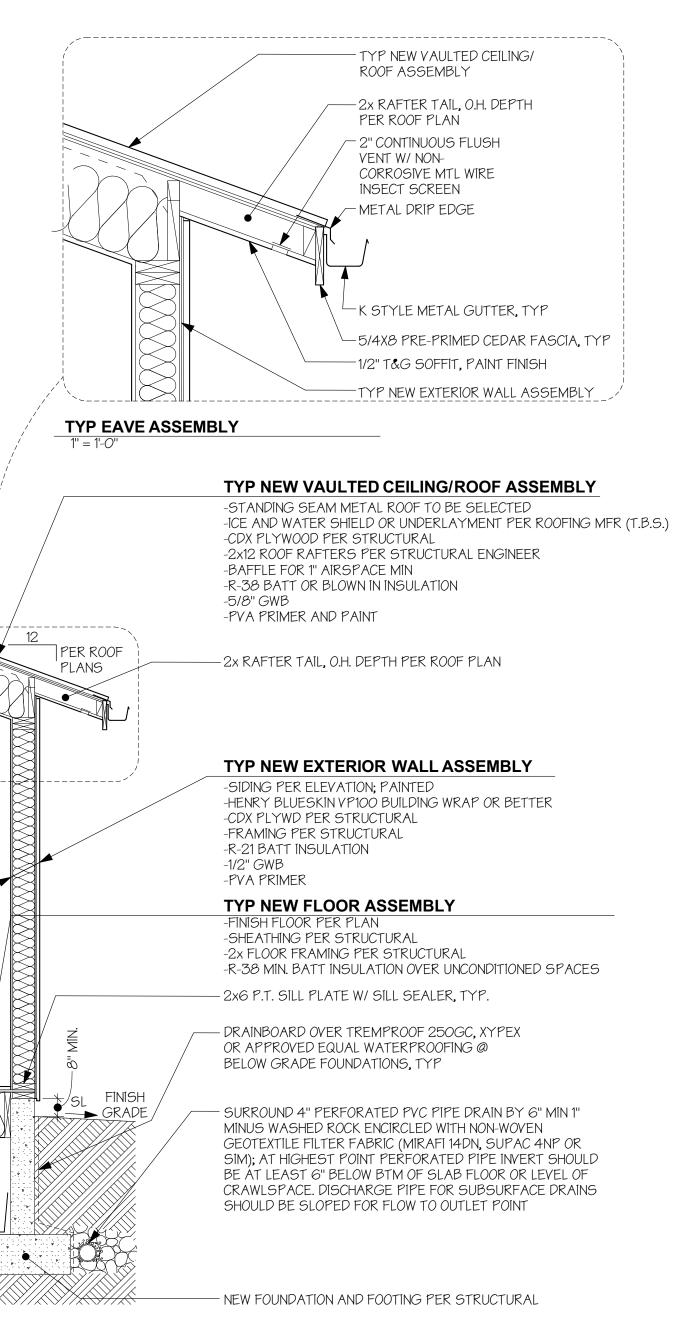
SURROUND 4" PERFORATED PVC PIPE DRAIN BY 6" MIN 1" MINUS WASHED ROCK ENCIRCLED WITH NON-WOVEN GEOTEXTILE FILTER FABRIC (MIRAFI 14DN, SUPAC 4NP OR SIM); AT HIGHEST POINT PERFORATED PIPE INVERT SHOULD BE AT LEAST 6" BELOW BTM OF SLAB FLOOR OR LEVEL OF CRAWLSPACE. DISCHARGE PIPE FOR SUBSURFACE DRAINS SHOULD BE SLOPED FOR FLOW TO OUTLET POINT

10 MIL POLYETHELENE VAPOR BARRIER AT CRAWLSPACE TYP, LAP EDGES 12'' MIN, RUN UP WALLS 12'' MIN.



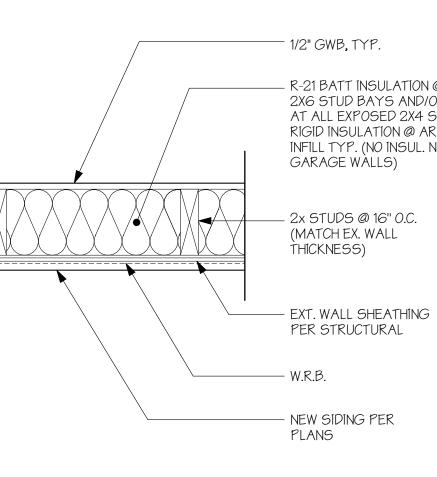






- 10 MIL POLYETHELENE VAPOR BARRIER AT CRAWLSPACE TYP, LAP EDGES 12" MIN, RUN UP WALLS 12" MIN.

## **TYP WALL SECTION** SCALE: 1/2" = 1'-0"



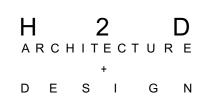
- R-21 BATT INSULATION @ ALL EXPOSED 2X6 STUD BAYS AND/OR R-15 H.D. BATT AT ALL EXPOSED 2X4 STUD BAYS, R-21 RIGID INSULATION @ AREAS OF 2X4 INFILL TYP. (NO INSUL. NEEDED @



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PERMIT SET

WALL SECTIONS

A4.1

#### Criteria

WIND

- 1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE 2018 INTERNATIONAL BUILDING CODE.
- 2. DESIGN LOAD CRITERIA FLOOR LIVE LOAD (RESIDENTIAL) SNOW

EARTHQUAKE ANALYSIS PROCEDURE:

LATERAL SYSTEM:

SITE CRITERIA

BASE SHEAR (ULTIMATE)

40 PSF Pf=25 PSF Iw=1.0, GCpi=0.18, 97 MPH (ULTIMATE), EXPOSURE "B", KZT=1.00

EQUIVALENT LATERAL FORCE PROCEDURE LIGHT FRAMED SHEAR WALLS V=23.91 KIPS SITE CLASS=D, Ss=1.461, Sds=1.169, S1=0.505, SD1=0.606, Cs=0.180 SDC D, le=1.0, R=6.5

SEE PLANS FOR ADDITIONAL LOADING CRITERIA

- 3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 4. 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 MUST BE VERIFIED.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- 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.
- 7. 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.
- 9. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS. STRUCTURAL STEEL

CONTRACTOR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8"=1'-0" SCALE INDICATING LOCATIONS OF CONNECTION EMBEDMENTS AND WALL OPENINGS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH REINFORCEMENT SHOP DRAWINGS.

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

10. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

#### $Ouality \Delta sourance$

<ol> <li>SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH TH SPECIFICATIONS AND SECTIONS 110 AND 1704 OF THE INTERNATIONAL BUILDING QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAIN BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING D SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESUL INSPECTION IS REQUIRED OF THE FOLLOWING TYPES OF CONSTRUCTION: EXPANSION BOLTS AND THREADED EXPANSION INSERTS PER MANUFACTU EPOXY GROUTED INSTALLATIONS PER MANUFACTU</li></ol>	G CODE BY A ED BY THE EPARTMENT TS. SPECIAL URER
Geotechnical	
<ol> <li>FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, E COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRIC RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH AT LEAST 18" BELC ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ONPLA DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS O MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE T AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREI</li> </ol>	CTLY WITH S ENGINEER. DW LOWEST ANS (OR IN F FOOTINGS
AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE         GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOIL         ALLOWABLE SOIL PRESSURE       1500 PSF         LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)       55 PCF/35 PCF         COEFICIENT OF FRICTION       (FACTOR OF SAFETY OF 1.5 INCLUDED)       0.3         PILE CAPACITY (COMPRESSION/TENSION/LATERAL)       0.3	E DRAINING

\_\_\_\_\_

#### Renovation

- TO 40 PSF
- ACCOMPLISHED BY SAW CUTTING WHEREVER POSSIBLE
- PRIOR TO CUTTING ANY OPENINGS.
- STRUCTURAL ENGINEER OR ARCHITECT.

#### Concrete

- 1705.3.2.3, SPECIAL INSPECTION IS NOT REQUIRED.)
- SPECIFIED PERFORMANCE.
- WITH TABLE ACI 318 TABLE 4.2.1 MODERATE EXPOSURE.
- PSI.
- FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
- FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY FORMED SURFACES EXPOSED OR WEATHER (#5 BARS OR SM SLABS AND WALLS (INT. FACE)
- CONCRETE WALL REINFORCING -6" WALLS #4 @ 16 HORIZ
- SURFACES, BOTH CAST-IN-PLACE AND PRECAST.
- WHICH IT IS PLACED (3000 PSI MINIMUM).

#### Anchorage

- REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.

The Following Apply Unless Noted Otherwise on the Drawings

DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE 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

2. EXISTING REINFORCING SHALL BE SAVED WHERE AND AS NOTED ON THE PLANS. SAW CUTTING, IF AND WHERE USED, SHALL NOT CUT EXISTING REINFORCING THAT IS TO BE SAVED. A. ALL NEW OPENINGS THROUGH EXISTING WALLS, SLABS AND BEAMS SHALL BE

B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMBERS

C. SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING, IF POSSIBLE D. WHERE NEW REINFORCING TERMINATES AT EXISTING CONCRETE, DOWELS EPOXY

GROUTED INTO EXISTING CONCRETE SHALL BE PROVIDED TO MATCH HORIZONTAL REINFORCING, UNLESS OTHERWISE NOTED ON PLANS. 3. CONTRACTOR SHALL CHECK FOR DRYROT AT ALL AREAS OF NEW WORK. ALL ROT SHALL BE

REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE

1. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906 AND 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 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. (STRUCTURAL DESIGN OF FOUNDATION IS BASED ON A f'c=2,500 PSI, PER IBC

2. THE MINIMUM AMOUNTS OF CEMENT MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH IBC 1905.6. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY TO THE CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR

3. 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

4. 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 PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy=60,000

5. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL REINFORCEMENTS IN ACCORDANCE WITH "THE REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE." PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE

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

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

Y EXPOSED	TO EARTH	3"
D TO EARTH	4	
MALLER)		1-1/2"
E)		GREATER OF BAR DIAMETER
		PLUS 1/8" OR 3/4"
- PROVIDE	THE FOLLOWING U	NLESS DETAILED OTHERWISE:
IZ. #4 (	@ 18 VERTICAL 1	CURTAIN

8" WALLS #4 @ 12 HORIZ. #4 @ 18 VERTICAL 1 CURTAIN

8. 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 OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE

9. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON

EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "KWIK BOLT TZ" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-1917, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS

2. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "HIT RE 500-V3" AS MANUFACTURED BY HILTI CORP. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2322. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED.

#### Steel

- 1. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON: A. EITHER AISC 360 AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE B. MARCH 18, 2005 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AMENDED AS FOLLOWS
  - i) AS NOTED IN THE CONTRACT DOCUMENTS.
  - ii) BY THE DELETION OF PARAGRAPH 4.4.1. iii) REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT
  - DOCUMENTS" IN PARAGRAPH 3.1.
- WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, Fy=50 KSI. OTHER ROLLED 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 B, Fy=42 KSI (ROUND), Fy=46 KSI (SQUARE AND RECTANGULAR). CONNECTION BOLTS SHALL CONFORM TO ASTM A307.
- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE
- AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. 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.
- ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL
- BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.W.S.) 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.

#### Wood

1.			MC-19, AND GRADED AND MARKED IN IG RULES FOR WEST COAST LUMBER NO.17.
		LLOWING MINIMUM STANDAR	
	JOISTS	(2X & 3X MEMBERS)	HEM-FIR NO. 2
	AND BEAMS:		MINIMUM BASE VALUE, Fb=850 PSI
		(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2
			MINIMUM BASE VALUE, Fb=900 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, PLATES & MISC. FRAMING:

- DOUGLAS-FIR-LARCH OR HEM-FIR NO. 2 GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND AITC STANDARDS. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. 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. CAMBER ALL
- SIMPLE SPAN GLULAM BEAMS TO 3,000' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS. MANUFACTURED LUMBER, PSL, LVL, AND LSL, SHALL BE MANUFACTURED UNDER A PROCESS APPROVED BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER. THE GRADE. THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. ALL PSL, LVL, AND LSL LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH ICC-ES REPORT ESR-1387 USING DOUGLAS FIR VENEER GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. THE MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

Fb=2900 PSI, E=2000 KSI, Fv=290 PSI PSL (2.0E)

- LVL (1.9E) Fb=2600 PSI ,E=1900 KSI, Fv=285 PSI
- LSL (1.55E) Fb=2325 PSI ,E=1550 KSI, Fv=310 PSI

DESIGN SHOWN ON PLANS IS BASED ON LUMBER MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER, ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH MEMBERS PROVIDED.

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.

PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE-CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1" BY THE TRUSS PLATE INSTITUTE FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. LOADING SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD	25 PSF
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD DEAD LOAD	5 PSF
TOTAL LOAD	40 PSF
WIND UPLIFT (TOP CHORD)	5 PSF
BOTTOM CHORD LIVE LOAD	10 PSF

(BOTTOM CHORD LIVE LOAD DOES NOT ACT CONCURENTLY WITH THE ROOF LIVE LOAD) WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BE SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC., SHOWN ON THE DRAWINGS. THE EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, IACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED ON THE PLANS. PROVIDE ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. PROVIDE FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

- PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.
- A. ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.
- B. FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.
- C. WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.
- D. REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REOUIREMENTS.

9

#### Wood (Con't)

6. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY. 7. PRESSURE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD. PRESSURE TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO A RETENTION OF 0.25 PCF. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO A RETENTION OF 0.40 PCF. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO A RETENTION OF 0.60 PCF. SODIUM BORATE (SBX) TREATED WOOD SHALL NOT BE USED WHERE EXPOSED TO WEATHER. FASTENERS AND TIMBER CONNECTORS IN DIRECT CONTACT WITH ACQ-A, CBA-A, CA-B, OR SBX TREATED WOOD SHALL BE G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653. FASTENERS AND TIMBER CONNECTORS IN DIRECT CONTACT WITH ACZA TREATED WOOD SHALL BE TYPE 304 OR 316 STAINLESS STEEL. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2015. 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. 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 "ITT" 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. WOOD FASTENERS

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

SIZE	LENGTH	DIAMETE
8d	2-1/2"	0.131"
10d	3"	0.148"
12d	3-1/4"	0.148"
F CONTRACTO		

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. 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 (2005 EDITION) 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.

10. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

- A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO 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. AND LAP MINIMUM 4'-0" AT JOINTS AND PROVIDE EIGHT 16d NAILS @ 4" O.C. EACH SIDE IOINT.

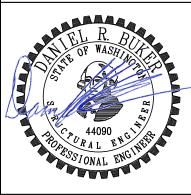
ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED 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 AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER OISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL OIST 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 UNLESS OTHERWISE NOTED.



Seattle, WA 98103 206.258.6333



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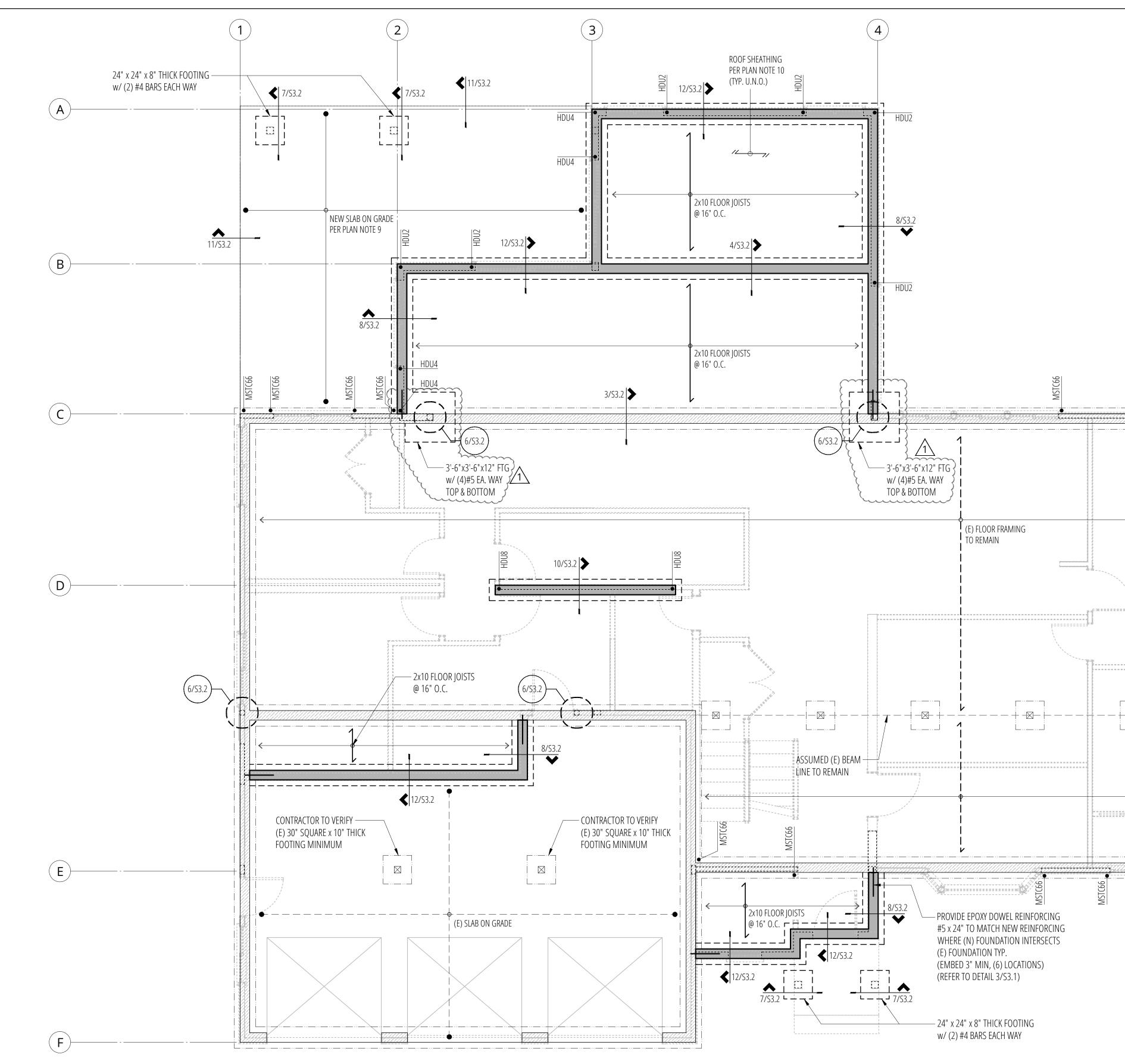
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Sheet Contents

General Structural Notes

Sheet No.



### PLAN NOTES

- 1. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- 3. ALL FOOTINGS SHALL BEAR ON FIRM, NATIVE SOIL.
- 4. PROVIDE DRAINAGE BEHIND ALL FOUNDATION WALLS.
- 5. REINFORCE FOOTING AND WALL CORNERS AND INTERSECTIONS PER 11/S3.1.
- 6. "HDUx" REFERS TO HOLDOWNS PER 9/S3.1. "MSTC" REFERS TO HOLDOWNS PER 5/S3.1.

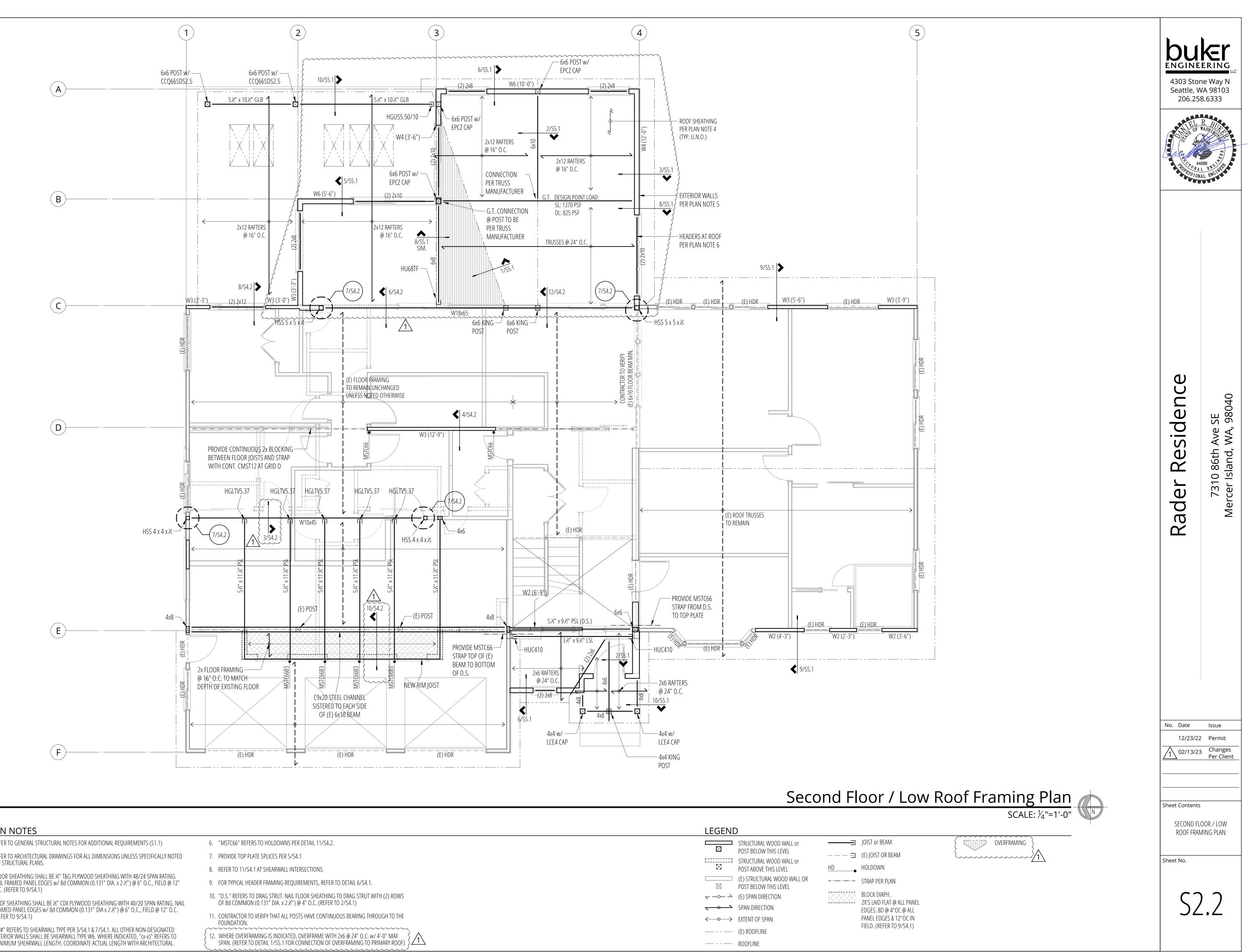
- 7. REFER 4/S3.1 WHERE PIPES PENETRATE FOUNDATION.
- 8. CONTRACTOR TO VERIFY TOP OF FOOTING ELEVATION w/ ARCHITECTURAL PLANS.
- SLAB. PROVIDE A BASE OF 4" COMPACTED, CLEAN 3/4" MINUS GRAVEL COVERED WITH 6 MIL. VAPOR BARRIER. PROVIDE JOINTS PER 7/S3.1.
- 10. FLOOR SHEATHING SHALL BE <sup>3</sup>/<sub>4</sub>" T&G PLYWOOD SHEATHING WITH 48/24 SPAN RATING. NAIL FRAMED PANEL EDGES w/ 8d COMMON (0.131" DIA. x 2 ½") @ 6" O.C., FIELD @ 12" O.C. (REFER TO 9/S4.1)
- 11. CRAWLSPACE VENTILATION SHALL BE PROVIDED PER ARCH.

9. 4" CONCRETE SLAB ON GRADE REINFORCED WITH #3 @ 12" OC EACH WAY, CENTERED IN

LEGEND (N) CONCRETE WALL ABOVE THIS LEVEL (E) CONCRETE WALL ABOVE THIS LEVEL ----(N) CONCRETE FOOTING ----\_...\_... E) CONCRETE FOOTING \_...\_

CITIESTRUCTURAL WOOD WALL orEX3POST ABOVE THIS LEVEL

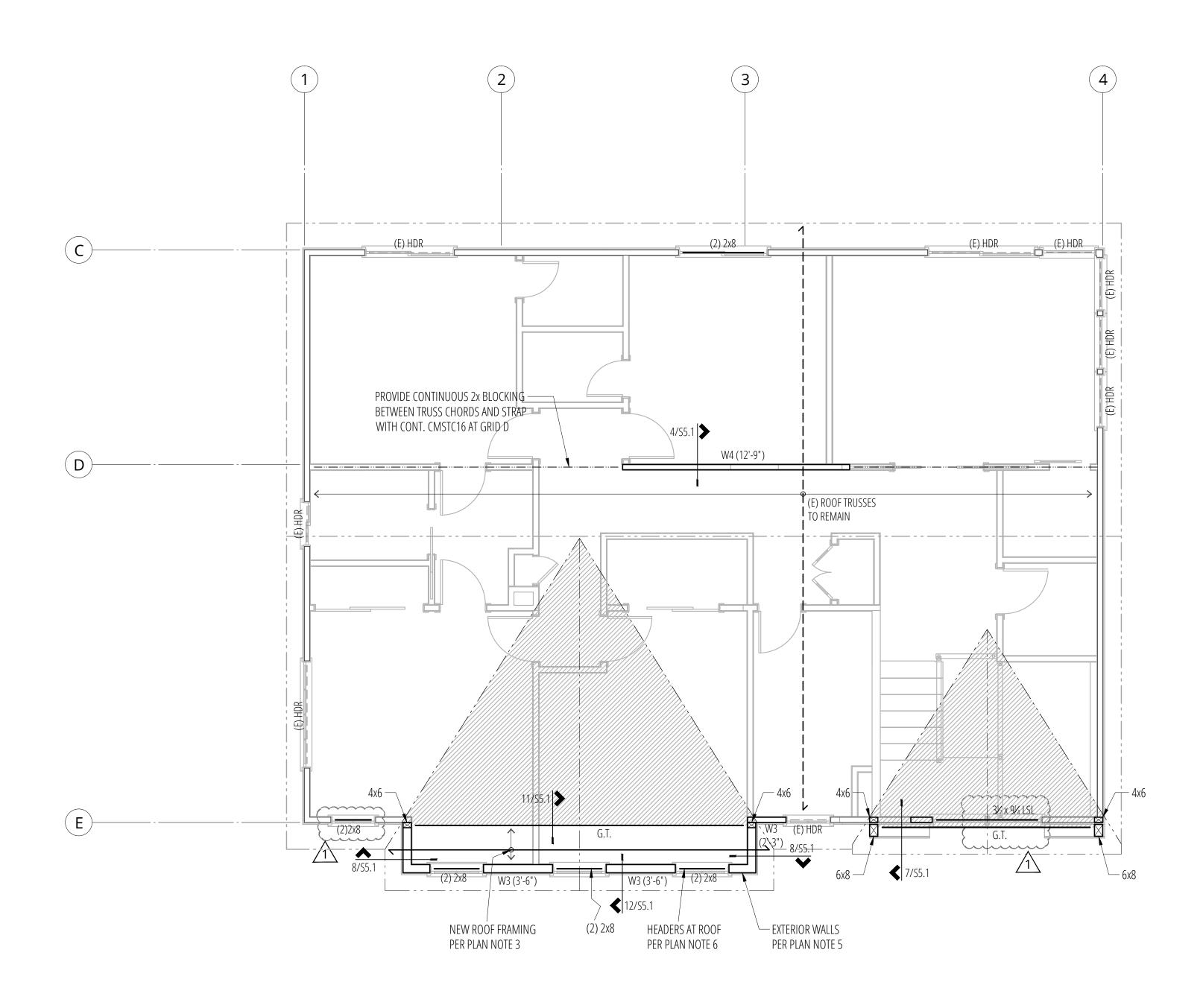
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- 4. ROOF SHEATHING SHALL BE <sup>5</sup>⁄⁄′′′ CDX PLYWOOD SHEATHING WITH 40/20 SPAN RATING. NAIL FRAMED PANEL EDGES w/ 8d COMMON (0.131" DIA x 2 ½") @ 6" O.C., FIELD @ 12" O.C. (REFER TO 9/S4.1)
- 5. "W#" REFERS TO SHEARWALL TYPE PER 3/S4.1 & 7/S4.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE W6. WHERE INDICATED, "(x-x)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE ACTUAL LENGTH WITH ARCHITECTURAL.

	STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL		
[] F.1 K.1	STRUCTURAL WOOD WALL or POST ABOVE THIS LEVEL		
	(E) STRUCTURAL WOOD WALL OR POST BELOW THIS LEVEL		
~	(E) SPAN DIRECTION		
$\sim$	SPAN DIRECTION		
$\langle - \circ \rangle$	EXTENT OF SPAN		
	(E) ROOFLINE		
	ROOFLINE		



### PLAN NOTES

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- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- 3. ROOF FRAMING SHALL BE PRE-MANUFACTURED ROOF TRUSSES @ 24" O.C. (TRUSS DESIGN BY OTHERS).
- 4. ROOF SHEATHING SHALL BE <sup>5</sup>⁄<sub>8</sub>" CDX PLYWOOD SHEATHING WITH 40/20 SPAN RATING. NAIL FRAMED PANEL EDGES w/ 8d COMMON (0.131" DIA. x 2 ½") @ 6" O.C., FIELD @ 12" O.C. (REFER TO 9/S4.1)
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- 6. FOR TYPICAL HEADER FRAMING REQUIREMENTS, REFER TO DETAIL 6/S4.1.
- 7. PROVIDE TOP PLATE SPLICES PER 5/S4.1
- 9. REFER TO 11/S4.1 AT SHEARWALL INTERSECTIONS.

WHERE OVERFRAMING IS INDICATED, OVERFRAME WITH 2x6 @ 24" O.C. w/ 4'-0" MAX SPAN. (REFER TO DETAIL 2/S5.1 FOR CONNECTION OF OVERFRAMING TO PRIMARY ROOF)

### LEGEND

	STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL
	(E) STRUCTURAL WOOD WALL OR POST BELOW THIS LEVEL
~0	(E) SPAN DIRECTION
$\sim$	SPAN DIRECTION
$\longleftrightarrow \rightarrow$	EXTENT OF SPAN
	(E) ROOFLINE
	ROOFLINE

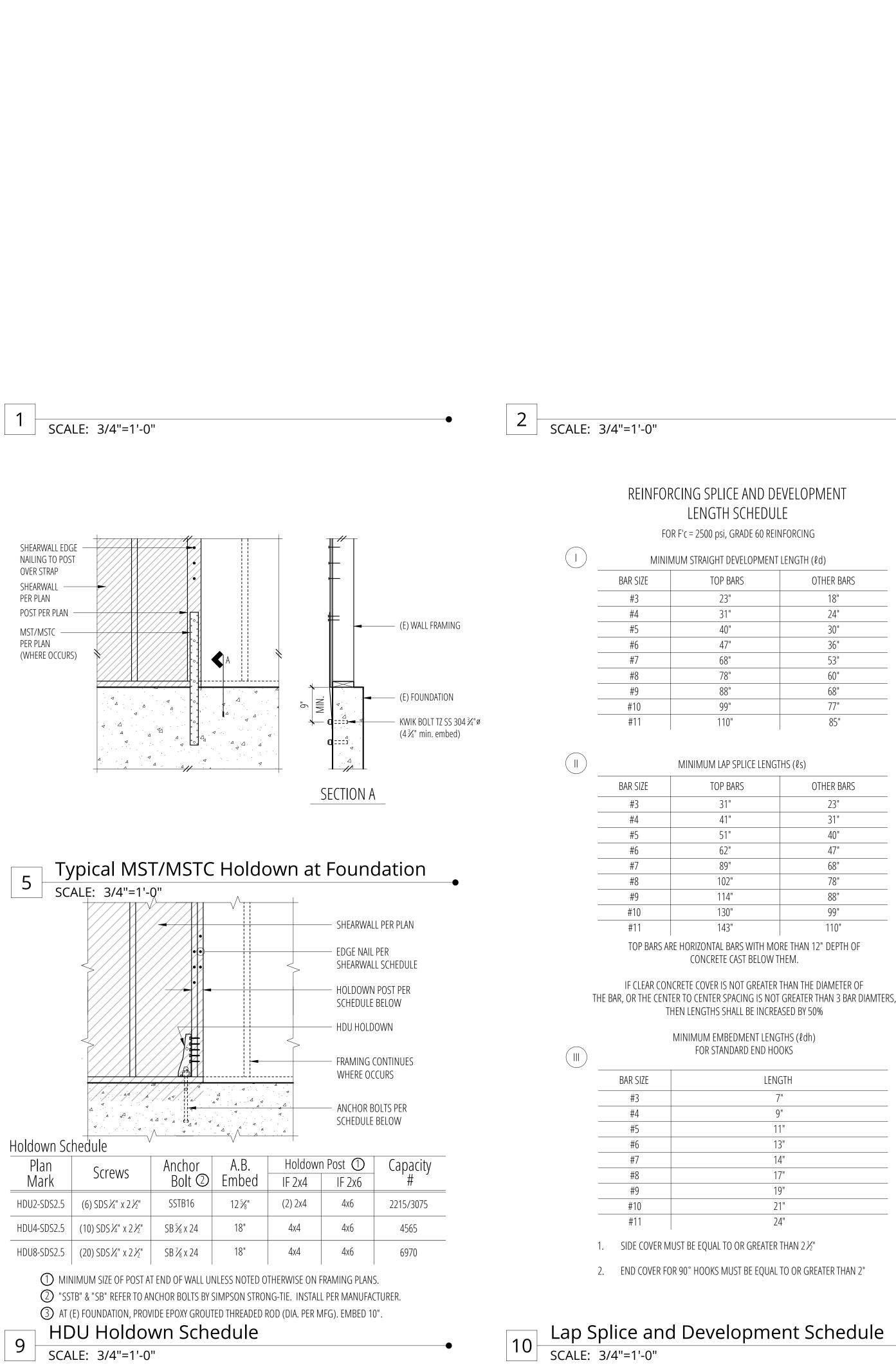
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No. Date 12/23/22 1 02/13/23 Sheet Contents ROOF FRAM Sheet No.	Changes Per Client		

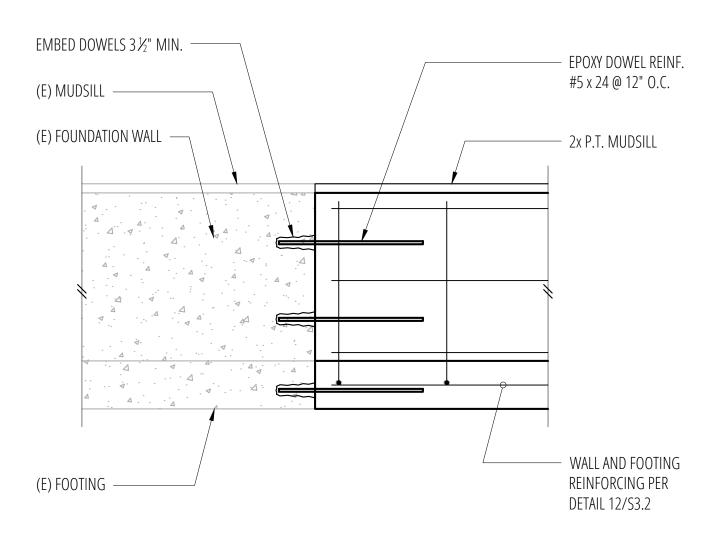
**Roof Framing Plan** SCALE: 1/4"=1

JOIST or BEAM

--- (E) Joist or Beam

G.T. GIRDER TRUSS OVERFRAMING





Epoxy Dowel Connection at (E) Foundation 3 SCALE: 3/4"=1'-0"

## REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE

#### FOR F'c = 2500 psi, GRADE 60 REINFORCING

#### MINIMUM STRAIGHT DEVELOPMENT LENGTH (<sup>l</sup>d)

TOP BARS	OTHER BARS
23"	18"
31"	24"
40"	30"
47"	36"
68"	53"
78"	60"
88"	68"
99"	77"
110"	85"

#### MINIMUM LAP SPLICE LENGTHS (*l*s)

OTHER BARS
23"
31"
40"
47"
68"
78"
88"
99"
110"

TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMTERS, THEN LENGTHS SHALL BE INCREASED BY 50%

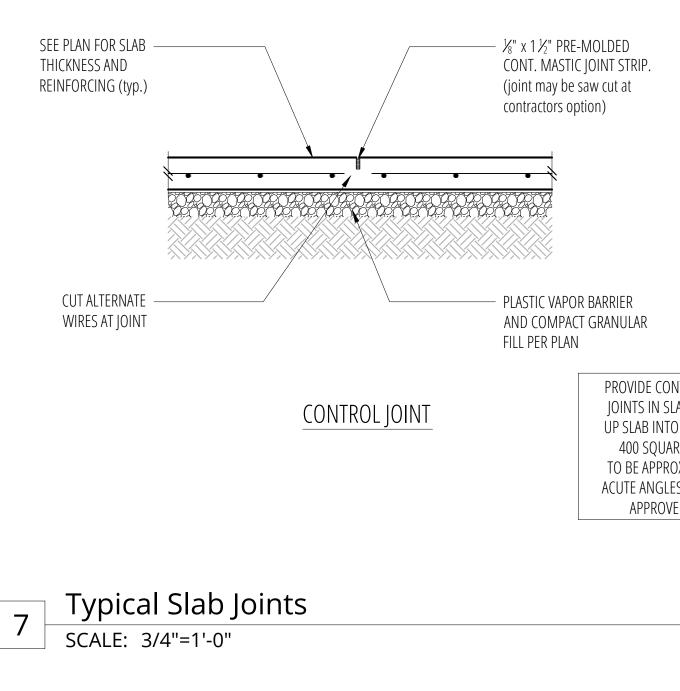
MINIMUM EMBEDMENT LENGTHS (<sup>2</sup>dh)

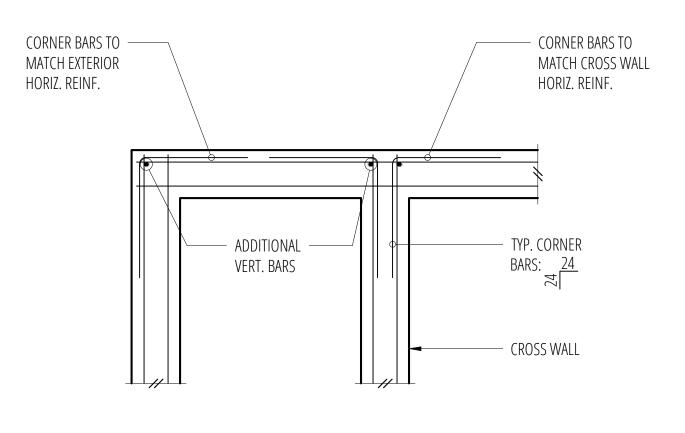
### LENGTH 7" 9" 11" 13" 14"

17"
19"
21"
24"

2. END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

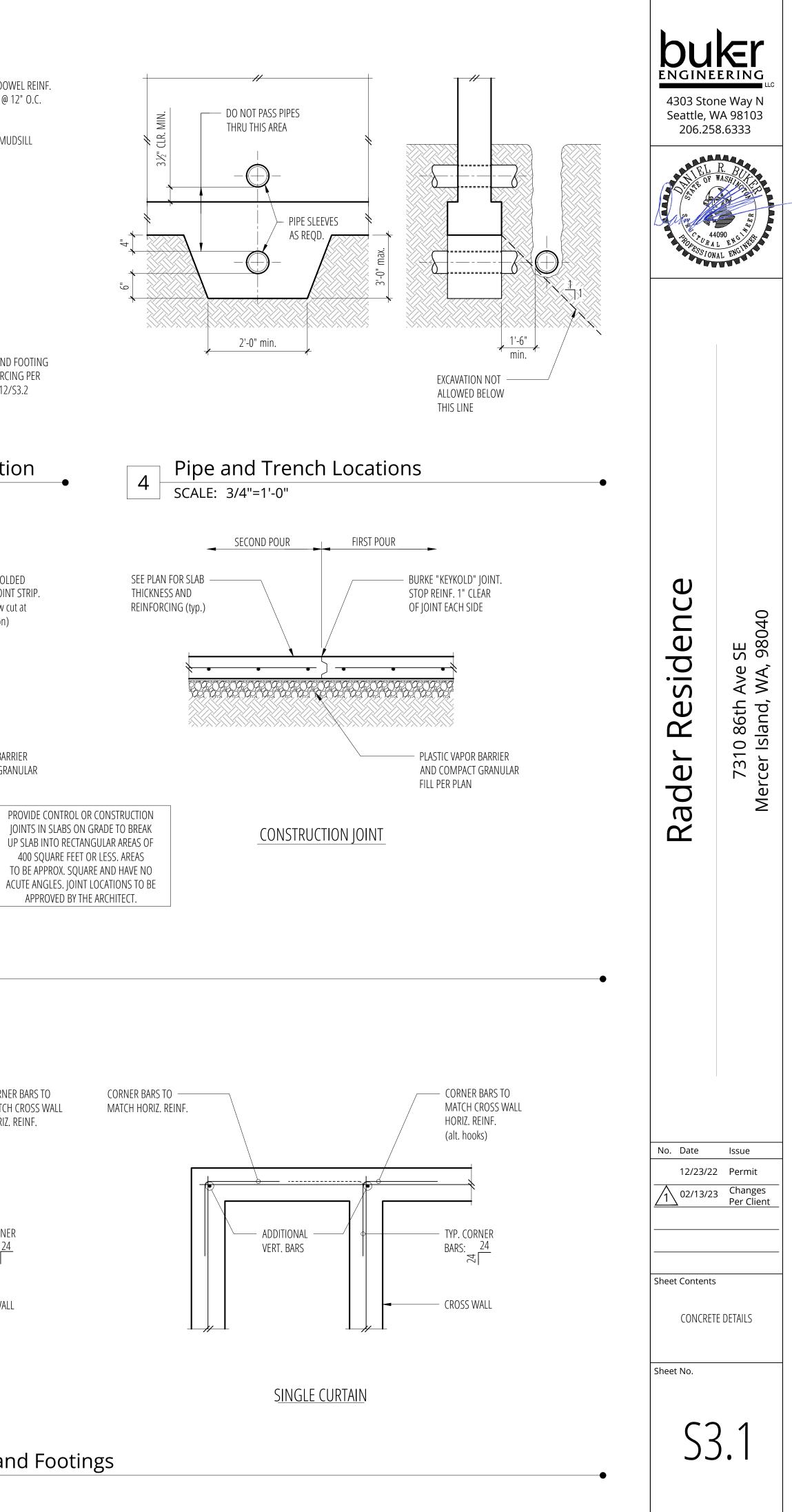
11





### D<u>OUBLE CURTAIN</u>

Typical Corner Bars at Concrete Walls and Footings SCALE: 3/4"=1'-0"



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

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

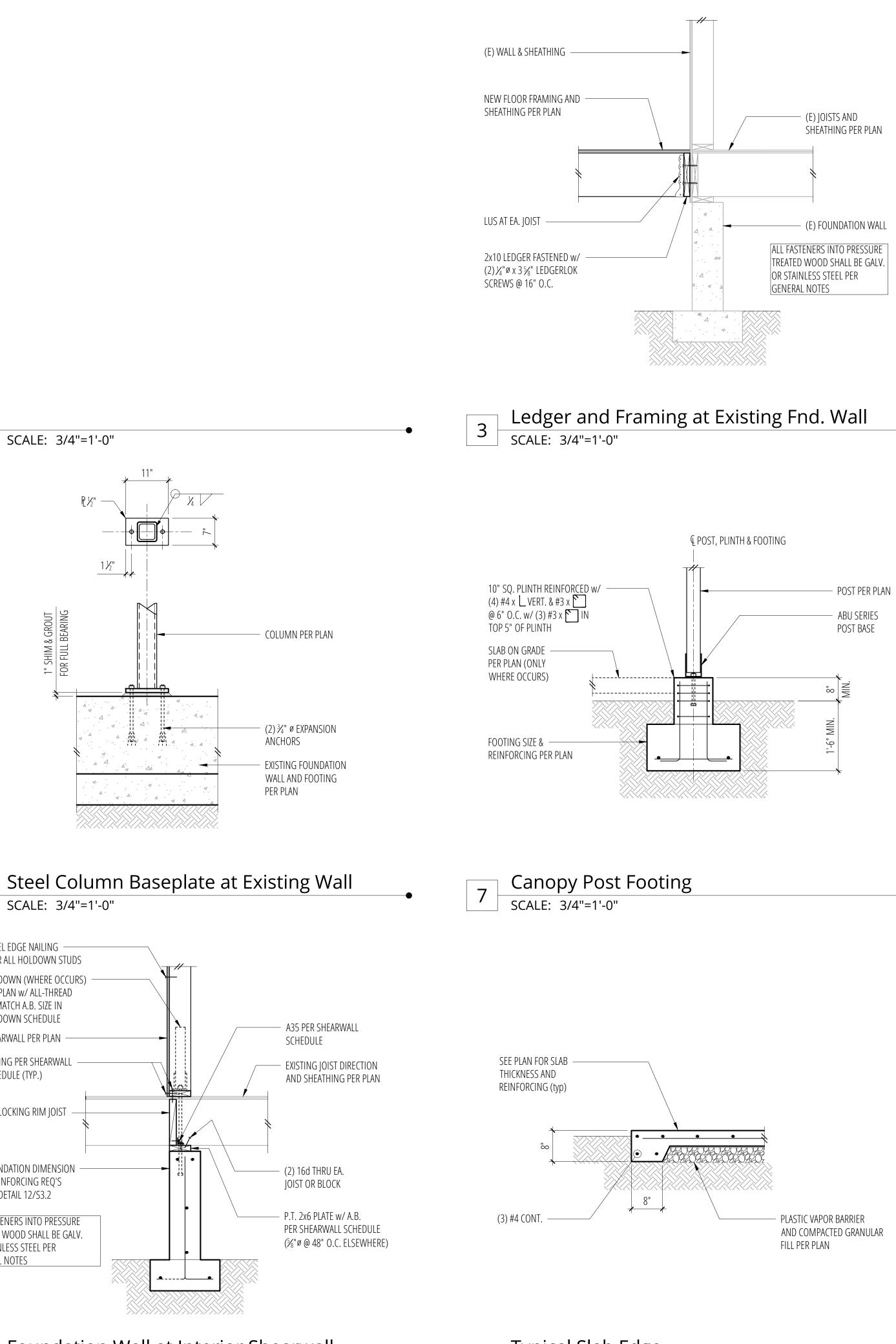
## 2 SCALE: 3/4"=1'-0"

1½" 1" SHIM & GROUT FOR FULL BEARING . . . . 

# 6

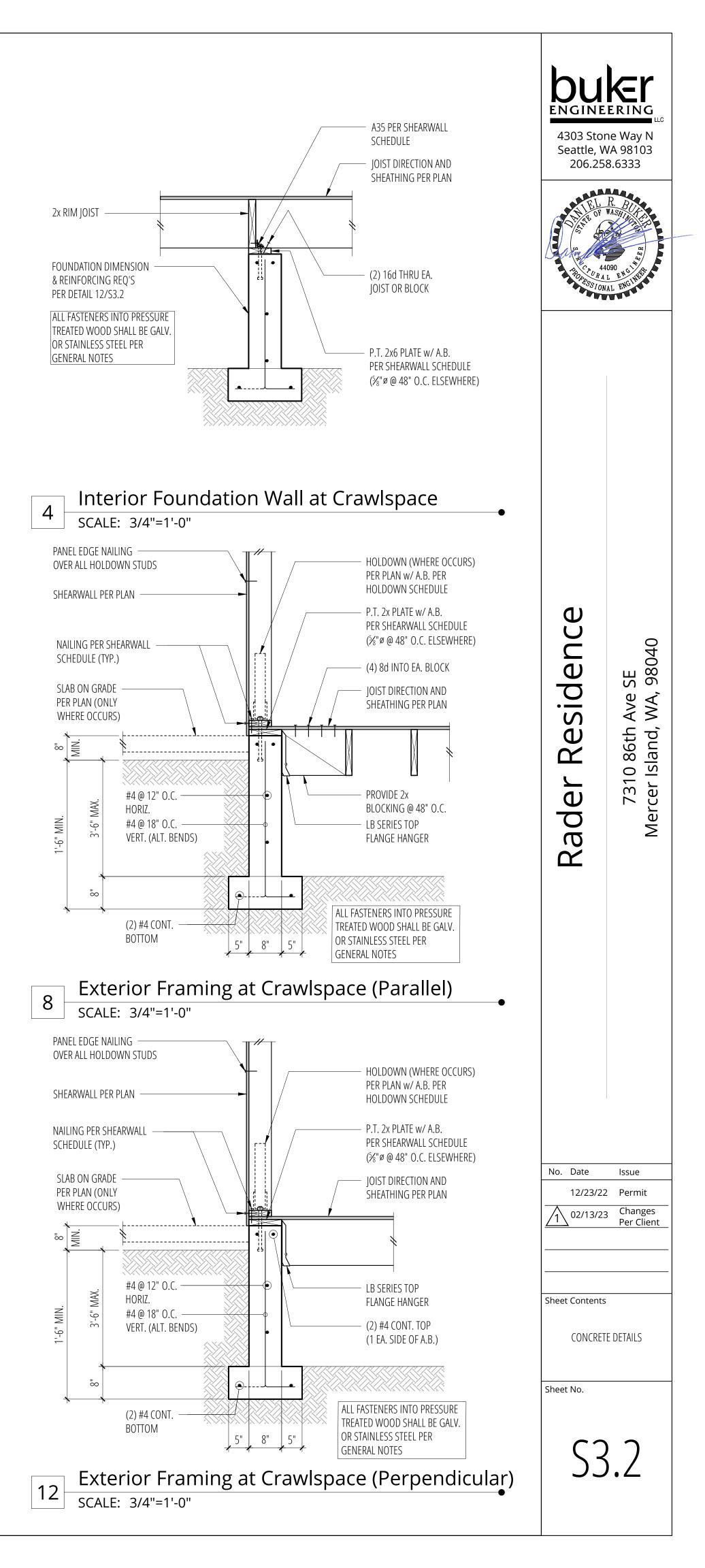
SCALE: 3/4"=1'-0"

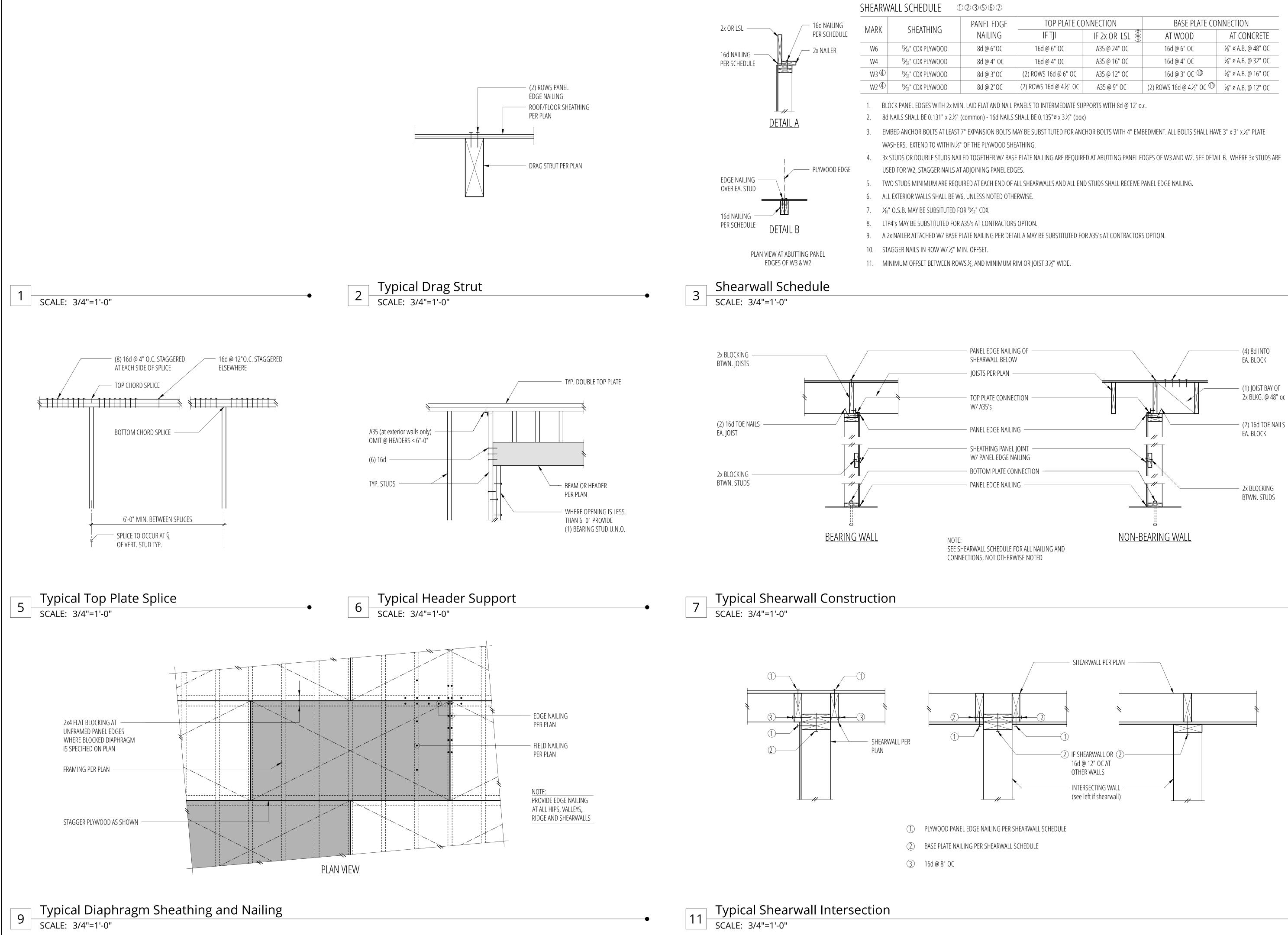
PANEL EDGE NAILING OVER ALL HOLDOWN STUDS HOLDOWN (WHERE OCCURS) PER PLAN w/ ALL-THREAD TO MATCH A.B. SIZE IN HOLDOWN SCHEDULE SHEARWALL PER PLAN NAILING PER SHEARWALL SCHEDULE (TYP.) 2x BLOCKING RIM JOIST FOUNDATION DIMENSION & REINFORCING REQ'S PER DETAIL 12/S3.2 ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES



Foundation Wall at Interior Shearwall

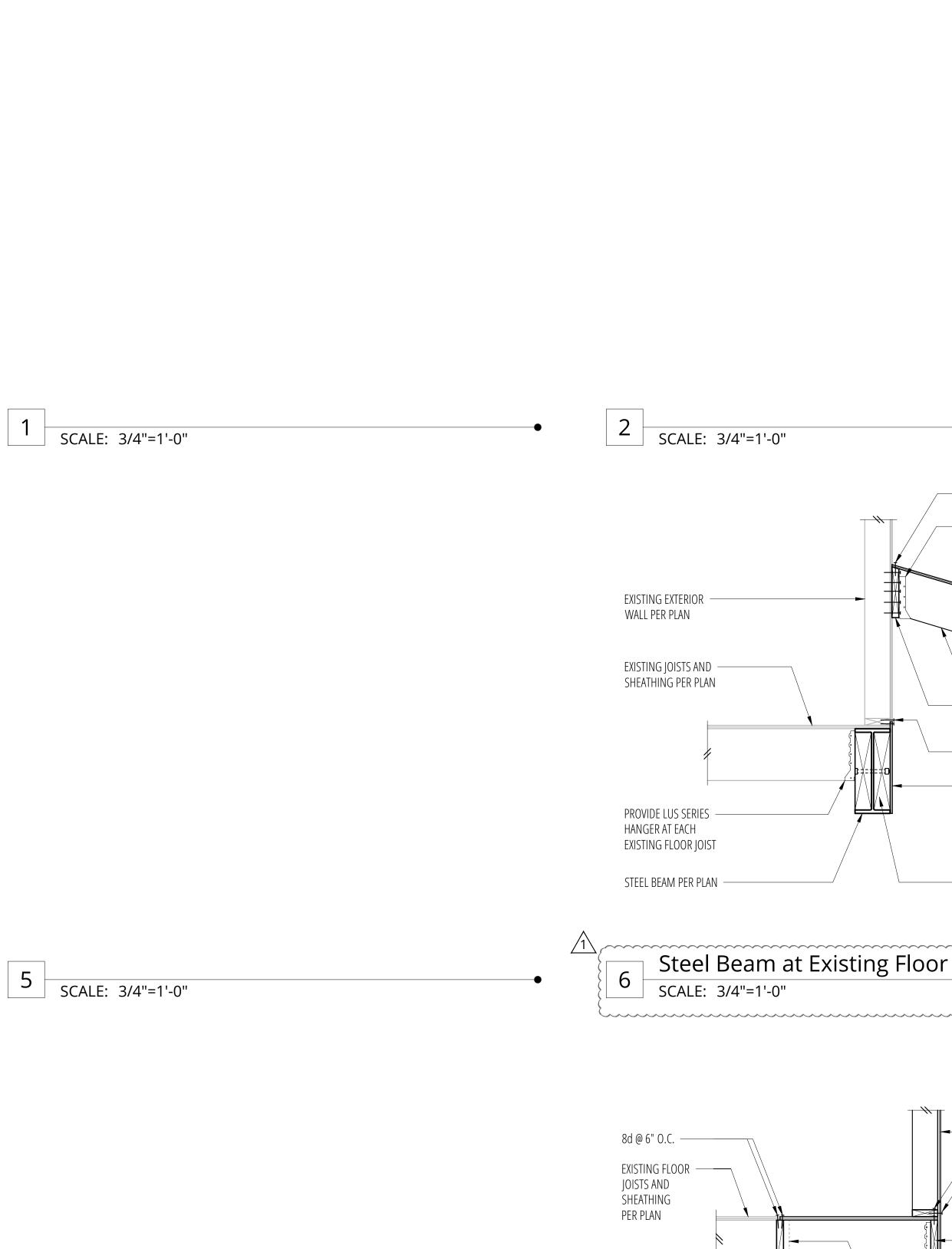
Typical Slab Edge11SCALE: 3/4"=1'-0"





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)GE	TOP PLATE CONNECTION		BASE PLATE CO	NNECTION
G	IF TJI	IF 2x OR LSL	AT WOOD	AT CONCRETE
C	16d @ 6" OC	A35 @ 24" OC	16d @ 6" OC	5∕8" ø A.B. @ 48" OC
0C	16d @ 4" OC	A35 @ 16" OC	16d @ 4" OC	5∕%" ø A.B. @ 32" OC
C	(2) ROWS 16d @ 6" OC	A35 @ 12" OC	16d @ 3" OC 🛈	5∕8" ø A.B. @ 16" OC
C	(2) ROWS 16d @ 4½" OC	A35 @ 9" OC	(2) ROWS 16d @ 4½" OC 🛈	5∕{s" ∅ A.B. @ 12" OC





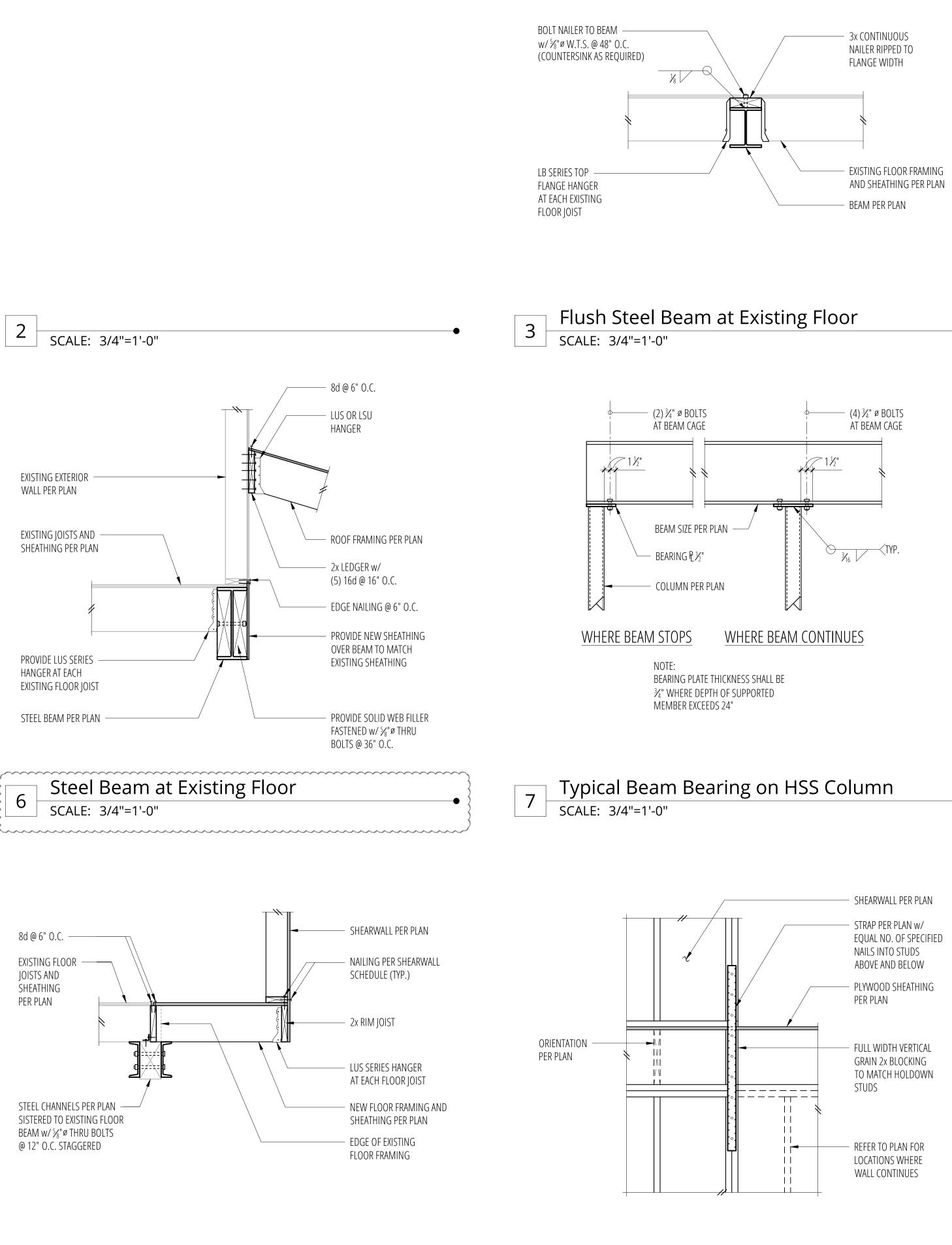


STEEL CHANNELS PER PLAN -

SISTERED TO EXISTING FLOOR

BEAM w/ 5⁄8"ø THRU BOLTS

@ 12" O.C. STAGGERED



# 11 Typical MST/MSTC Holdown at Floor SCALE: 3/4"=1'-0"

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