

DEMO PLAN NOTES

DEMO (E) — ELECTRIC METER

DEMO (E) GAS

REMOVE ALL EXISTING CONSTRUCTION AND FINISHES NECESSARY FOR THE COMPLETION OF THE WORK AS DEPICTED ON THE DRAWINGS INCLUDING, BUT NOT LIMITED TO, ITEMS SHOWN ON THE PLANS WITH DASHED LINES. NECESSARY DISCONNECTS AND ALTERATIONS TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INCLUDED. PATCH AS REQUIRED. ALL CONSTRUCTION TO REMAIN IN ACCORDANCE WITH THE CONTRACT DRAWINGS. REMOVAL AND DISPOSAL OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY WITH OWNER THE DISPOSAL AND REMOVAL OF ANY COMPONENTS OF SALVAGEABLE VALUE. ALL REMOVAL AND SALVAGE, UNLESS SPECIFICALLY NOTED OR REQUESTED BY THE OWNER,

SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE ONLY NON-LOAD BEARING CONSTRUCTION AND PARTITIONS. CONTRACTOR TO VERIFY, PRIOR TO REMOVAL, THAT NO STRUCTURAL COMPONENTS, I.E. BEARING WALLS, BEAMS, HEADERS, ETC. SUPPORTING FLOOR, ROOF OR CEILING JOISTS ARE DESIGNATED FOR REMOVAL. CONTACT THE ARCHITECT PRIOR TO REMOVAL OF ANY CONSTRUCTION IN QUESTION OR DEVIATING FROM THE DESIGN INTENT. CONTRACTOR'S NON-CONTACT OF ARCHITECT PRIOR TO REMOVAL OF ANY WORK INDICATES HIS COMPLETE UNDERSTANDING THAT NO LOAD BEARING OR STRUCTURAL WORK IS BEING ALTERED UNDER THIS CONTRACT. ALL STRUCTURAL SYSTEMS SHALL BE MAINTAINED AND SHALL BE OF SUFFICIENT STRENGTH T SUPPORT THE DESIGN LOADS AND TO RESIST THE DEFORMATION CAUSED BY SUCH LOADS, INLCUDING BUT NOT LIMITED TO SOIL PRESSURE, SURCHARGE, HYDROSTATIC HEAD AND

IMPACT LOADS AS APPLICABLE. PATCH ALL FINISHES TO MATCH EXISTING. THIS INCLUDES BUT IS NOT LIMITED TO, GYPSUM BOARD, PLASTER, ACOUSTIC SYSTEMS, WOOD TRIM, COVERS, BASE, PANELS, RAILS AND WAINSCOT. VERIFY MATCH OF NEW FINISH MATERIALS TO EXISTING IN COLOR, TEXTURE, THICKNESS, CUT, ETC. TO SATISFACTION OF OWNER PRIOR TO INSTALLATION. PROVIDE OTHER MATERIALS TO MATCH EXISTING WHEN REQUIRED. TO BE APPROVED BY OWNER. PATCH EXISTING WALLS GYPSUM DRYWALL OR PLASTER TO MATCH EXISTING OF SUFFICIENT THICKNESS TO MAINTAIN UNIFORM WALL THICKNESS. ALL EXPOSED PORTIONS OF WALL SHALL BE FINISHED WITH THREE (3) COATES OF SPACKLING, SANDED AND LEFT IN A PAINT READY

WHERE APPLICABLE, LEVEL ALL EXISTING FLOORS AS REQUIRED TO RECEIVE NEW FLOOR FINISHES. INSTALL REQUIRED TRANSITION PIECES BETWEEN VARIOUS FLOOR FINISHES SUITABLE FOR CONDITIONS AND ACCEPTABLE TO THE OWNER. MATCH EXISTING WHEREVER FIRE SPRINKLER SYSTEM NOTES: PROVIDE COMPLETE RESIDENTIAL SPRINKLER SYSTEM PER NFPA I 3D THROUGHOUT THE RESIDENCE IN

2. INCREASE WATER METER TO 1" MINIMUM.

ACCORDANCE WITH APPENDIX Q

PROVIDE DOUBLE BACKFLOW, FLOW SWITCH GAUGE AND DRAIN.

PROVIDE FLUSH MOUNTED 155 DEGREE QUICK RESPONSE RESIDENTIAL SPRINKLER HEADS WITHIN THE ENTIRE HOUSE.

PROVIDE CPVC PIPING CONCEALED IN ATTIC AND JOIST SPACES.

PROVIDE APPROVED SPRINKLER SYSTEM PLANS AND PERMIT PER THE CITY OF THE CITY OF MERCER ISLAND.

SMOKE DETECTORS AND/OR SOUNDERS MUST ACTIVATE UPON WATERFLOW OF THE FIRE SPRINKLER SYSTEM.

FLOOR PLAN LEGEND

WALL TO BE DEMOLISHED

EXISTING WALL TO REMAIN

NEW EXTERIOR WALL: 2x6 WOOD STUDS @ 16" o.c. TYP. COVER INT. SIDE w/ 1/2" GWB EXTERIOR PLYWOOD SHEATHING PER STRUCTURAL.

> NEW INTERIOR WALL: 2x4 WOOD STUDS @ 16" o.c. TYP. COVER EA. SIDE w/ 1/2" GWB

DENOTES WALLS WITH 1-HR FIRE RATING. SEE DETAIL #DrgID(ref)/#LayID(ref).

ROOF LINE

SMOKE DETECTOR (INTERCONNECTED)

SMOKE AND CARBON MONOXIDE DETECTOR (COMBO)

PLAN NOTES:

I. ALL DIMENSIONS ARE TO FACE-OF-FRAMING, U.N.O.

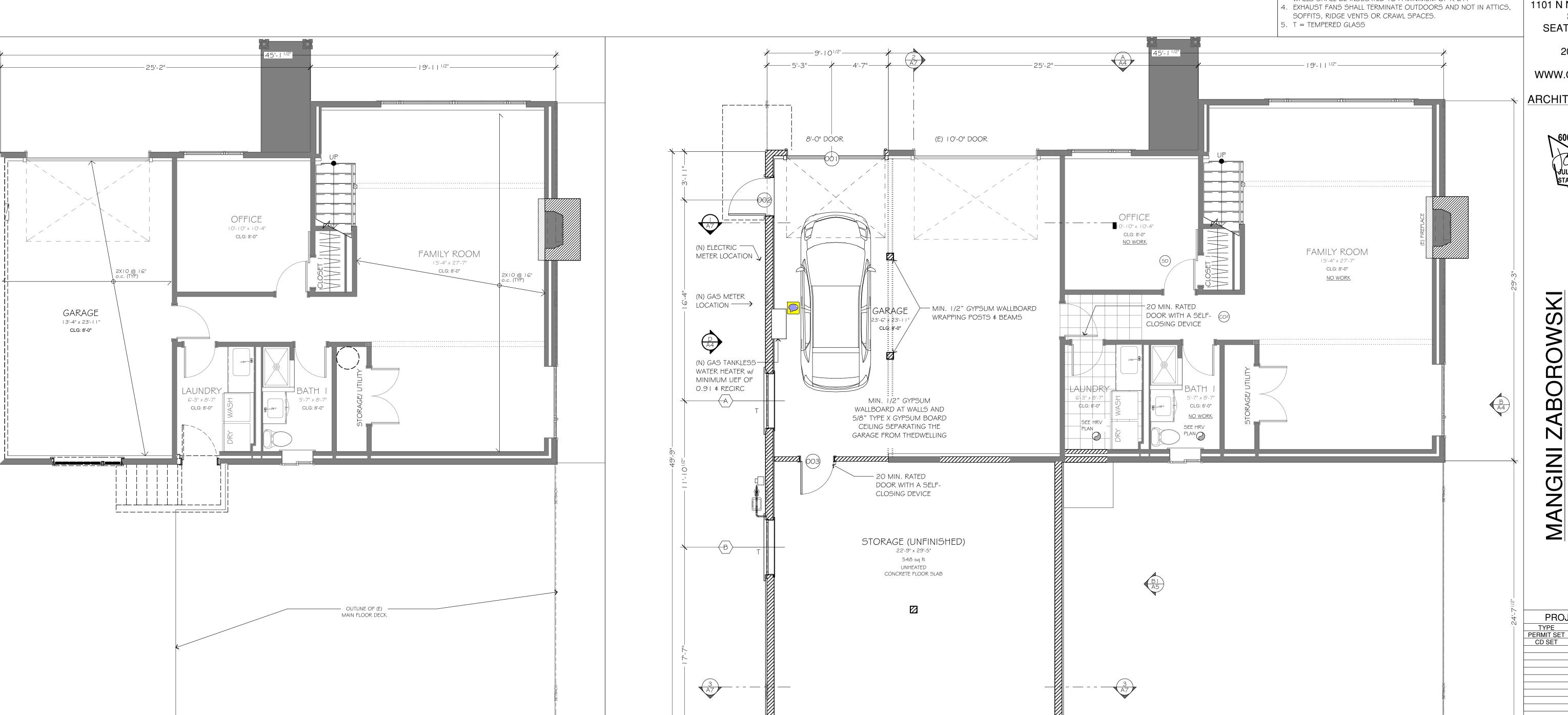
2. BUILDER SHALL COMPLETE & POST AN "INSULATION CERTIFICATE FOR RESIDENTIAL CONSTRUCTION" WITHIN 3 FEET OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION.

EXISTING CEILING, WALL, AND FLOOR CAVITIES OPENED DURING

CONSTRUCTION SHALL BE FILED WITH NEW INSULATION. 2X4 FRAMED

WALLS SHALL BE INSULATED TO A MINIMUM OF R-15. 2X6 FRAMED WALLS SHALL BE INSULATED TO A MINIMUM OF R-21.





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8429 SE 62N MERCER ISLAND,

PROJECT TRACKING TYPE ISSUE DATE REVISION
PERMIT SET 11/1/2021 --

BASEMENT PLANS

BASEMENT AS-BUILT/ DEMO PLAN

BASEMENT PLAN

EXISTING BASEMENT AREA: 865 sq ft

AREA: 350 sq ft

GARAGE ADDITION AREA: 248 sq ft

BASEMENT STORAGE AREA: 590 sq ft

EXISTING BASEMENT GARAGE

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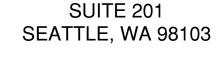
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EXHAUST FANS SHALL TERMINATE OUTDOORS AND NOT IN ATTICS,





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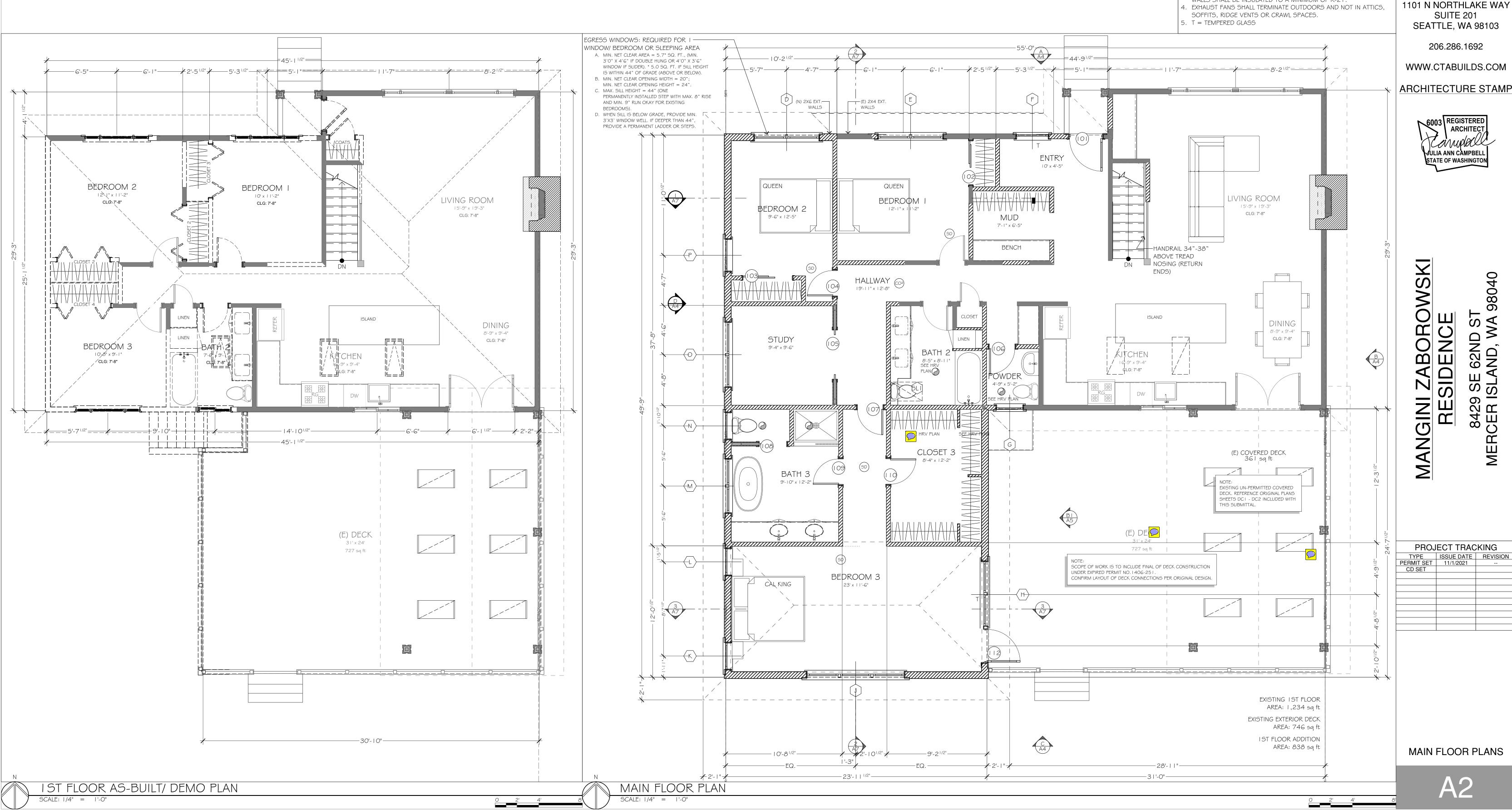
8429 SE 62N MERCER ISLAND,

PROJECT TRACKING

 TYPE
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 11/1/2021
 -

 CD SET
 - -



DOOR SCHEDULE DOOR SCHEDULE THICKNESS OPERATION HARDWARE U-VALUE NOTES W | HT BASEMENT 80" GARAGE DOOR GARAGE DOOR PROVIDE OPENER 002 36" 80" I -3/4" 20 MINUTE RATED FIRE DOOR W/ CLOSER 003 32" 80" 1-3/8" LOCKSET MAIN FLOOR 0.20 80" 1-3/4" RH 48" 80" 1-3/8" BYPASSING CLOSET DUMMY 80" 1-3/8" BYPASSING CLOSET DUMMY 80" 104 28" 1-3/8" RH PRIVACY 80" 1-3/8" PAIR POCKET 80" 1-3/8" 28" PRIVACY 80" 1-3/8" RH PRIVACY 108 30" 80" 1-3/8" POCKET POCKET/ PRIVACY 80" 1-3/8" PRIVACY 80" 28" 1-3/8" LH PASSAGE 80" I -3/4" 0.20 LH

WINDOW SCHEDULE

WINDO	OW S	3CHEDUI	LE							
I.E.		SI	ZE	OPERATION	01.471110	ECDEGG	TEN AD	111/41115	ADEA	NOTEC
ID		W	Н	OPERATION	GLAZING	EGRESS	TEMP.	U-VALUE	AREA:	NOTES:
BASEN	MEN.	Τ		•				•		
Д	4	54"	24"	AWNING			YES	0.20	9.0	
Е	3	54"	24"	AWNING			YES	0.20	9.0	
C	C	54"	24"	AWNING			YES	0.20 MAX.	9.0	
MAIN I	FLO	OR						•		
		72"	60"	DBL MULLED SH		YES		0.20 MAX.	30.0	
Е	E	72"	60"	DBL MULLED SH		YES		0.20 MAX.	30.0	
F	F	36"	60"	SH			YES	0.20 MAX.	15.0	
G	<u> </u>	30"	30"	SH				0.20	6.3	
F	-	72"	48"	DBL MULLED SH			YES	0.20 MAX.	24.0	
J	J	108"	60"	TRIPLE MULLED SH		YES		0.20 MAX.	45.0	
K	<	30"	48"	SH				0.20 MAX.	10.0	
L	L	30"	48"	SH				0.20 MAX.	10.0	
N	И	60"	60"	DBL MULLED SH	OBSCURE		YES	0.20 MAX.	25.0	
N	V	30"	30"	SH				0.20 MAX.	6.3	
C	5	72"	60"	DBL MULLED SH				0.20 MAX.	30.0	
F	P	36"	60"	SH		YES		0.20 MAX.	15.0	

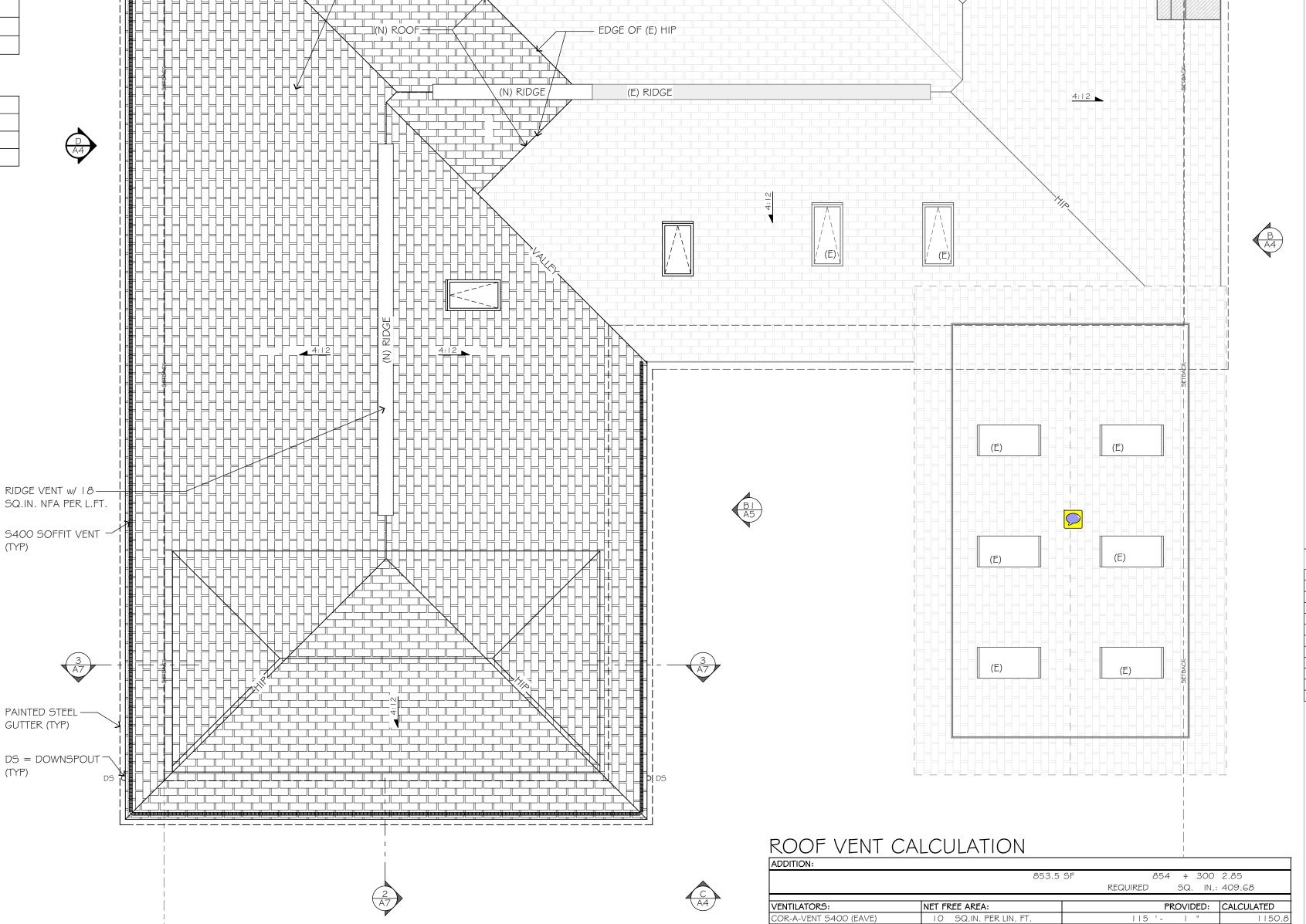
SKYLIGHT SCHEDULE

SKYLIGHT SCHEDULE							
ID	WIDTH	HEIGHT	OPERATION	U-VALUE	NOTES		
SLI	20"	36"					
SL4	20"	36"					

DOOR \$ WINDOW NOTES

- I. UNIT SIZES LISTED. 2. ALL WINDOWS TO BE "NFRC"-CERTIFIED.
- 3. ALL WINDOWS TO BE MILGARD ULTRA SERIES, WHITE INTERIOR, WHITE EXTERIOR.
- 4. WINDOW/DOOR SWINGS PER PLANS \$ ELEVATIONS. 5. VERIFY EXISTING DOOR ROUGH OPENINGS WHERE APPLICABLE.
- 6. ALL WINDOW/DOOR HEAD HEIGHTS SHALL ALIGN. MATCH EXISTING HEAD HEIGHTS AS
- APPLICABLE.
- 7. CONTRACTOR TO CONFIRM ALL WINDOW ROUGH OPENING DIMENSIONS AND JAMB DEPTHS BEFORE PLACING WINDOW ORDER.
- 8. MULL WINDOWS PER PLAN & SCHEDULE.
- 9. CASEMENT OR AWNING WINDOWS USED FOR EGRESS MUST INCLUDE HARDWARE THAT ALLOWS WINDOW TO BE OPEN MIN. OF 90 DEGREES & PROVIDE FULL WIDTH CLEARANCE IN FULLY OPEN POSITION.

EXHAUST	7	15	105	1	I O. PROVIDE FALL PROTECTION ON ALL OPERABLE WINDOWS WHERE THE SILL HEIGHT ABV. FINISHED GRADE ON THE EXTERIOR SIDE OF THE WINDOW EXCEEDS 72", AND THE SILL HEIGHT
SUPPLY	7	15	105		ON THE INTERIOR IS LESS THAN 24" (36" IBC).
CFM REQ'D	PER TABLE M	1507.3.3(1):	75		
BA FR	I 05 CFM SYST ALE AIR EXHAUST CKDRAFT DAMPER ESH AIR INLET RAIN HOOD	MIN. HRV TEM		15 CFM RETURN W/ BOOST CONTROLS (TYP OF 2)	15 CPM MIN. SUPPLY (TYP OF 5) LOCAL EXHAUST (EX. HOOD) 100 CPM MIN. 115 CPM MIN. 115 CPM CPURS NW BOOST CONTROLS (TYP OF 5)
' '					N



18 SQ.IN. PER LINEAL FEE

- S400 SOFFIT VENT

- RIDGE VENT w/ 18 SQ.IN. NFA PER L.FT.

(TYP)

A7

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8429 SE 62NE RCER ISLAND, V

PROJECT TRACKING TYPE ISSUE DATE REVISION
PERMIT SET 11/1/2021 --

PROPOSED ROOF PLAN, **SCHEDULES**

1671.3

TOTAL PROVIDED:

BASEMENT HRV PLAN SCALE: 3/32" = 1'-0"

HRV SYSTEM NOTES:

1507.3.3(1).

WHOLE HOUSE VENTILATION SHALL BE PROVIDED BY HEAT RECOVERY VENTILATOR (HRV), IN ACCORDANCE WITH M I 507.3.7 REQUIREMENTS. MINIMUM FLOW RATINGS SHALL BE NOT LESS THAN THAT SPECIFIED IN TABLE

INSTALLATION SHALL ADHERE TO MANUFACTURER REQUIREMENTS.

THE HEAT EXCHANGER IN BOTH THE INTAKE AND EXHAUST AIRSTREAMS

ALL SUPPLY DUCTS IN THE CONDITIONED SPACE INSTALLED UPSTREAM OF THE

OUTDOOR AIR INLETS SHALL BE SCREENED OR OTHERWISE PROTECTED FROM

OUTDOOR AIR INLETS SHALL BE LOCATED SO AS NOT TO TAKE AIR FROM THE

CLOSER THAN 10 FEET FROM AN APPLIANCE VENT OUTLET, UNLESS SUCH VENT OUTLET IS 3 FEET ABOVE THE OUTDOOR

WHERE IT WILL PICK UP OBJECTIONABLE ODORS, FUMES

CLOSER THAN TO FEET FROM A VENT OPENING OF A

CFM (MIN) CFM (TOTAL)

A ROOM OR SPACE HAVING ANY FUEL-BURNING APPLIANCES

PLUMBING DRAINAGE SYSTEM UNLESS THE VENT OPENING

A HAZARDOUS OR UNSANITARY LOCATION.

IS AT LEAST 3 FEET ABOVE THE AIR INLET.

F. ATTICS, CRAWL SPACES, OR GARAGES.

ALL DUCT WORK IN HEAT RECOVERY SYSTEMS SHALL BE SIZED AND INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. SYSTEMS SHALL HAVE A FILTER ON THE UPSTREAM SIDE OF

HEAT EXCHANGER SHALL BE INSULATED TO A MINIMUM OF R-4.

WITH A MINIMUM EFFICIENCY RATING VALUE MERV-6.

ENTRY BY LEAVES OR OTHER MATERIAL.

OR FLAMMABLE VAPORS.

AIR INLET.

THEREIN.

⊗ HRV SUPPLY

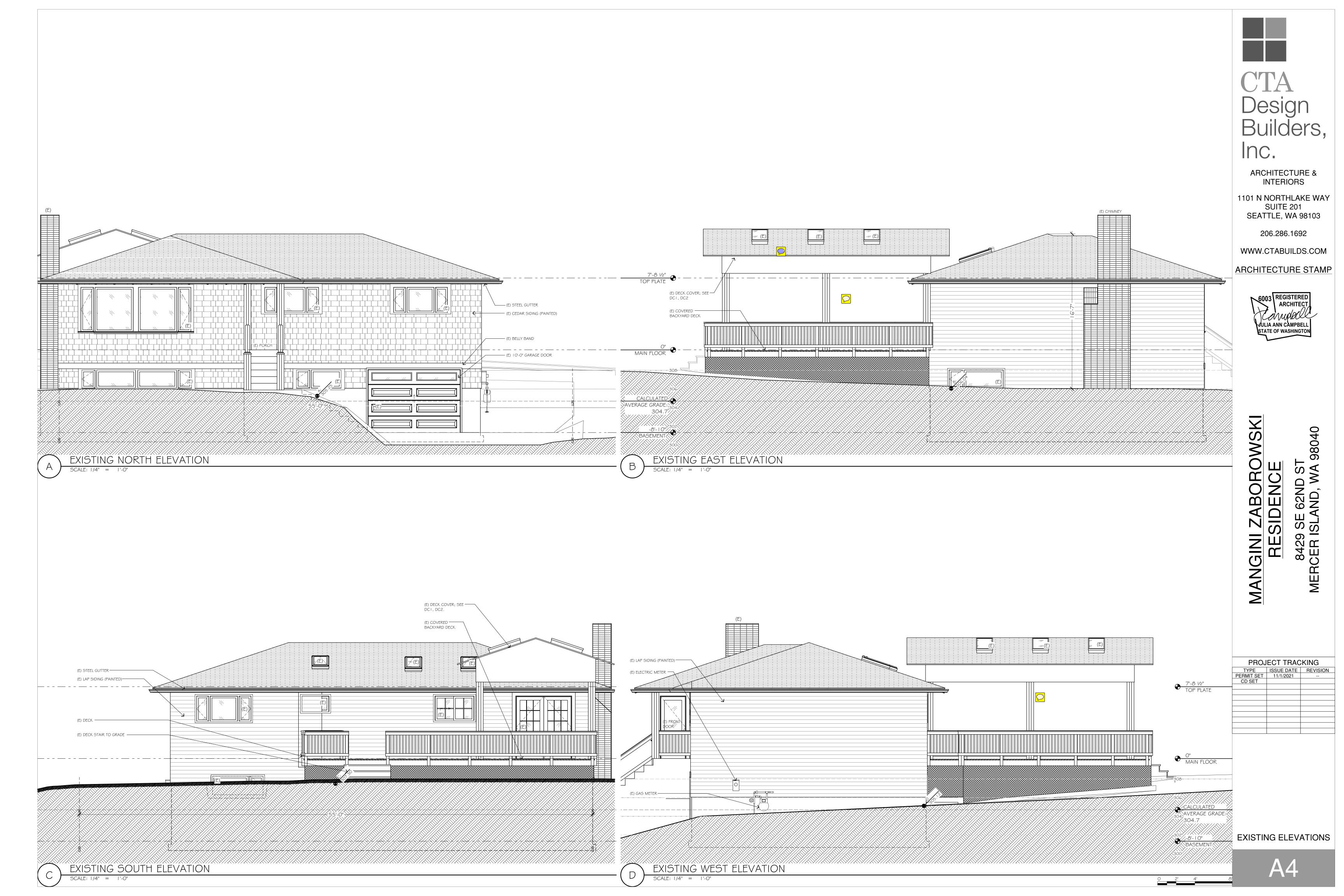
HRV EXHAUST

MAIN FLOOR HRV PLAN SCALE: 3/32" = 1'-0"

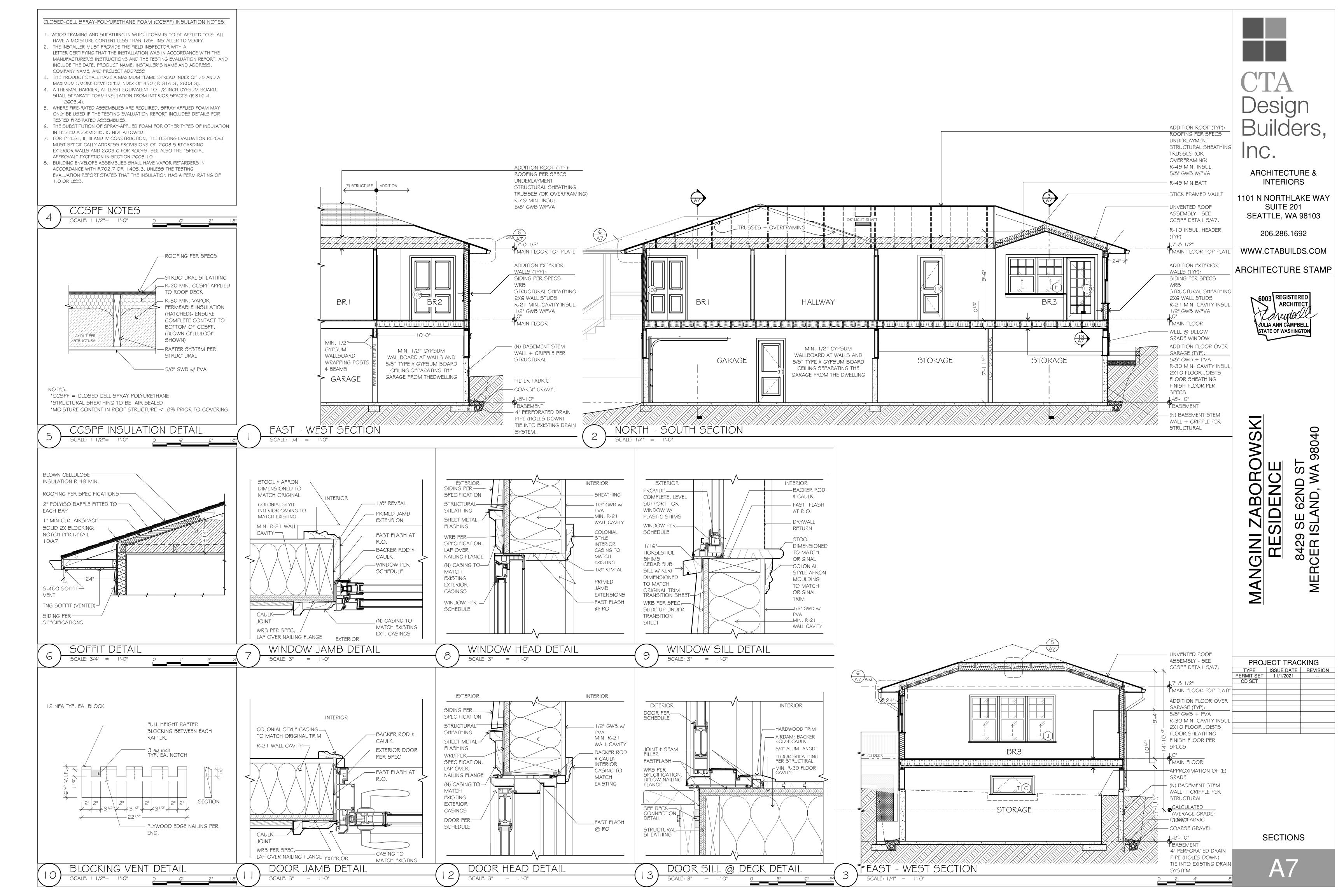
ROOF PLAN

(TYP)

(TYP)







General Structural Notes

The Following Apply Unless Noted Otherwise on the Drawings

Criteria

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE 2018 INTERNATIONAL BUILDING CODE

EQUIVALENT LATERAL FORCE PROCEDURE

DESIGN LOAD CRITERIA 20 PSF ROOF LIVE LOAD FLOOR LIVE LOAD (RESIDENTIAL) SNOW

40 PSF Pf=25 PSF

WIND Iw=1.0, GCpi=0.18, 100 MPH (ULTIMATE), EXPOSURE "B", KZT=1.0

EARTHQUAKE **ANALYSIS PROCEDURE:**

> LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS BASE SHEAR (ULTIMATE) V=14 KIPS SITE CRITERIA SITE CLASS=D, Ss=1.461, Sds=0.974, S1=0.506, SD1=0.604, Cs=0.150

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.

SDC D, le=1.0, R=6.5

- 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.
- 6. 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.
- SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

CONNECTOR PLATE WOOD ROOF TRUSSES 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, FECHNIQUES, 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.

Quality Assurance

1. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1704 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION IS REQUIRED OF THE FOLLOWING TYPES OF CONSTRUCTION:

EXPANSION BOLTS AND THREADED EXPANSION INSERTS PER MANUFACTURER **EPOXY GROUTED INSTALLATIONS** PER MANUFACTURER

Geotechnical

1. FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER OR APPROVED BY THE BUILDING OFFICIAL. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN. FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT

FINISHED GRADE. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.

ALLOWABLE SOIL PRESSURE LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED) 55 PCF/35 PCF COEFICIENT OF FRICTION

(FACTOR OF SAFETY OF 1.5 INCLUDED)

Renovation

- 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 TO 40 PSF.
- 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
- ACCOMPLISHED BY SAW CUTTING WHEREVER POSSIBLE. B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMBERS PRIOR
- TO CUTTING ANY OPENINGS. 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 STRUCTURAL ENGINEER OR ARCHITECT.

Concrete

- 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 f'c=2,500 PSI, PER IBC 1705.3.2.3, SPECIAL INSPECTION IS NOT REQUIRED.)
- 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 1903.1. 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 SPECIFIED PERFORMANCE.
- 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 WITH ACI 318 TABLE 4.2.1 MODERATE EXPOSURE.
- 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 PSI.
- 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 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.

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

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSEDTO EARTH

FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER)

SLABS AND WALLS (INT. FACE) GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4" 7. CONCRETE WALL REINFORCING - PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:

6" WALLS #4 @ 16 HORIZ. #4 @ 18 VERTICAL 1 CURTAIN 8" WALLS #4 @ 12 HORIZ. #4 @ 18 VERTICAL1 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 SURFACES, BOTH CAST-IN-PLACE AND PRECAST.

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 WHICH IT IS PLACED (3000 PSI MINIMUM).

Anchorage

- 1. EXPANSION ANCHORS SHALL CONFORM TO ONE OF THE FOLLOWING:
- A.EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "KWIK BOLT TZ2" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-4266 FOR CONCRETE OR ESR-4561 FOR MASONRY, 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 REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.
- B. EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE STRONG-BOLT 2 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. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.
- 2. EPOXY ANCHORS SHALL CONFORM TO ONE OF THE FOLLOWING:
- A.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-3814. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED.
- B. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2508. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED.

Wood

1. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO.17. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS (2X & 3X MEMBERS) HEM-FIR NO. 2 AND BEAMS: MINIMUM BASE VALUE, Fb=850 PSI DOUGLAS FIR-LARCH NO. 2

(4X MEMBERS)

BEAMS: (INCL. 6X AND LARGER)DOUGLAS FIR-LARCH NO. 1

MINIMUM BASE VALUE, Fb=900 PSI

MINIMUM BASE VALUE, Fb=1350 PSI

(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

2. 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:

PSL (2.2E) Fb=2900 PSI, E=2000 KSI, Fv=290 PSI 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

3. 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 5 PSF BOTTOM CHORD DEAD LOAD TOTAL LOAD 40 PSF WIND UPLIFT (TOP CHORD) 5 PSF 10 PSF BOTTOM CHORD LIVE LOAD

(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, JACK 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.

4. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1. ORIENTED STRAND BOARD OF EOUIVALENT 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 REQUIREMENTS.

SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

- 5. 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
- 6. 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.
- 7. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019, EOUIVALENT 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 "ITS" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST
- 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(Cont.

8. WOOD FASTENERS

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

2-1/2" 0.131" 10d 0.148" 16d BOX 3-1/2" 0.135"

SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL

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 (2018 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.

9. 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 TO 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

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

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 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 UNLESS OTHERWISE NOTED.

4303 Stone Way N Seattle, WA 98103



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Sheet Contents

General Structural Notes

Sheet No.

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S I . I). REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- ALL FOOTINGS SHALL BEAR ON FIRM, NATIVE SOIL.
- PROVIDE DRAINAGE BEHIND ALL FOUNDATION WALLS.
 REINFORCE FOOTING AND WALL CORNERS AND INTERSECTIONS PER 1 1/53.1.
- "HDUx" REFERS TO HOLDOWNS PER 9/53.1.
 REFER TO 4/53.1 WHERE PIPES PENETRATE FOUNDATION.
- CONTRACTOR TO VERIFY TOP OF FOOTING ELEVATION W ARCHITECTURAL PLANS.

 4" CONCRETE SLAB ON GRADE REINFORCED WITH #3 @ I 2" OC EACH WAY,
 CENTERED IN SLAB. PROVIDE A BASE OF 4" COMPACTED, CLEAN 3/4" MINUS GRAVEL COVERED WITH 4 MIL. VAPOR BARRIER. PROVIDE JOINTS PER 7/53.1.



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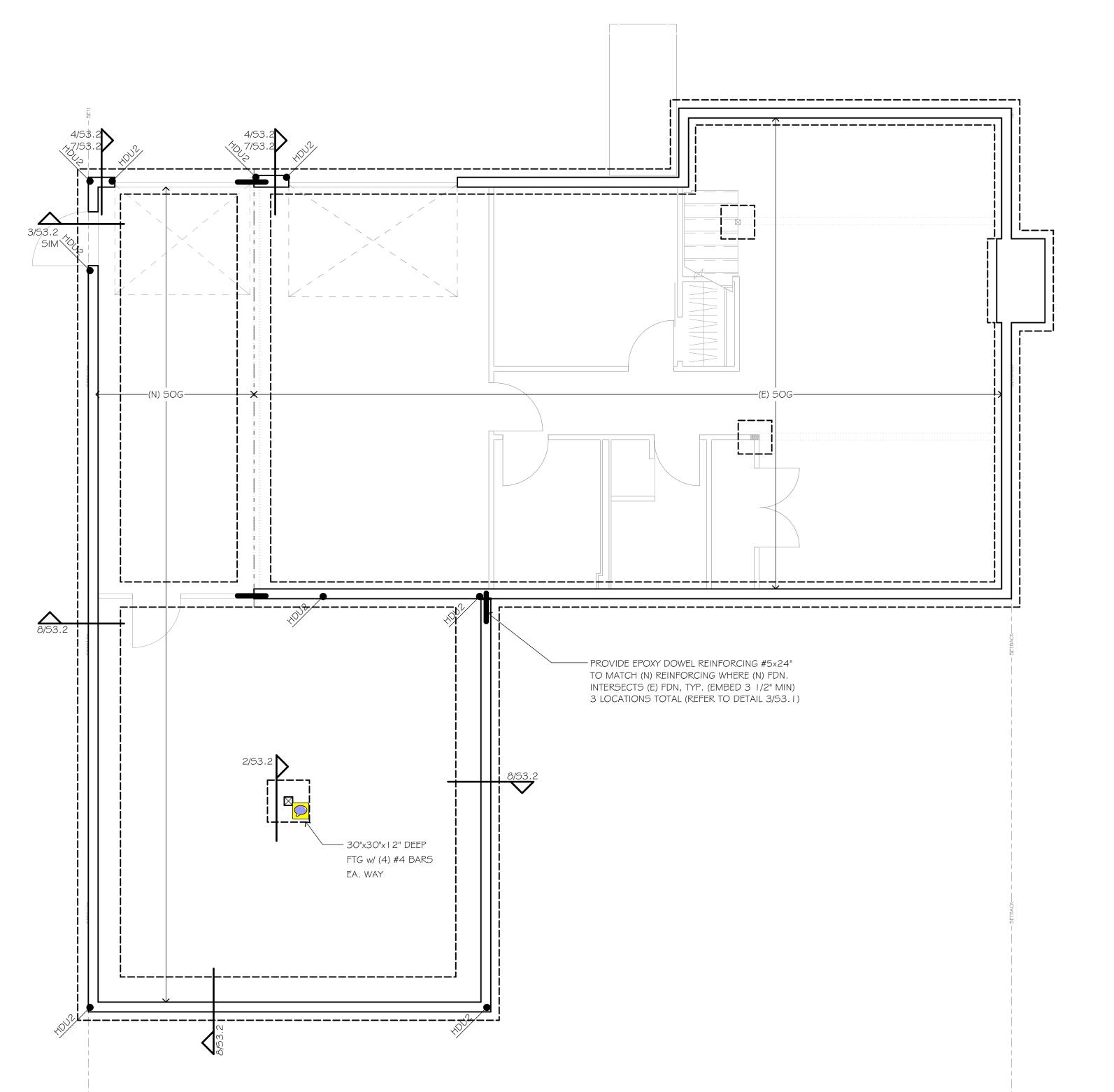
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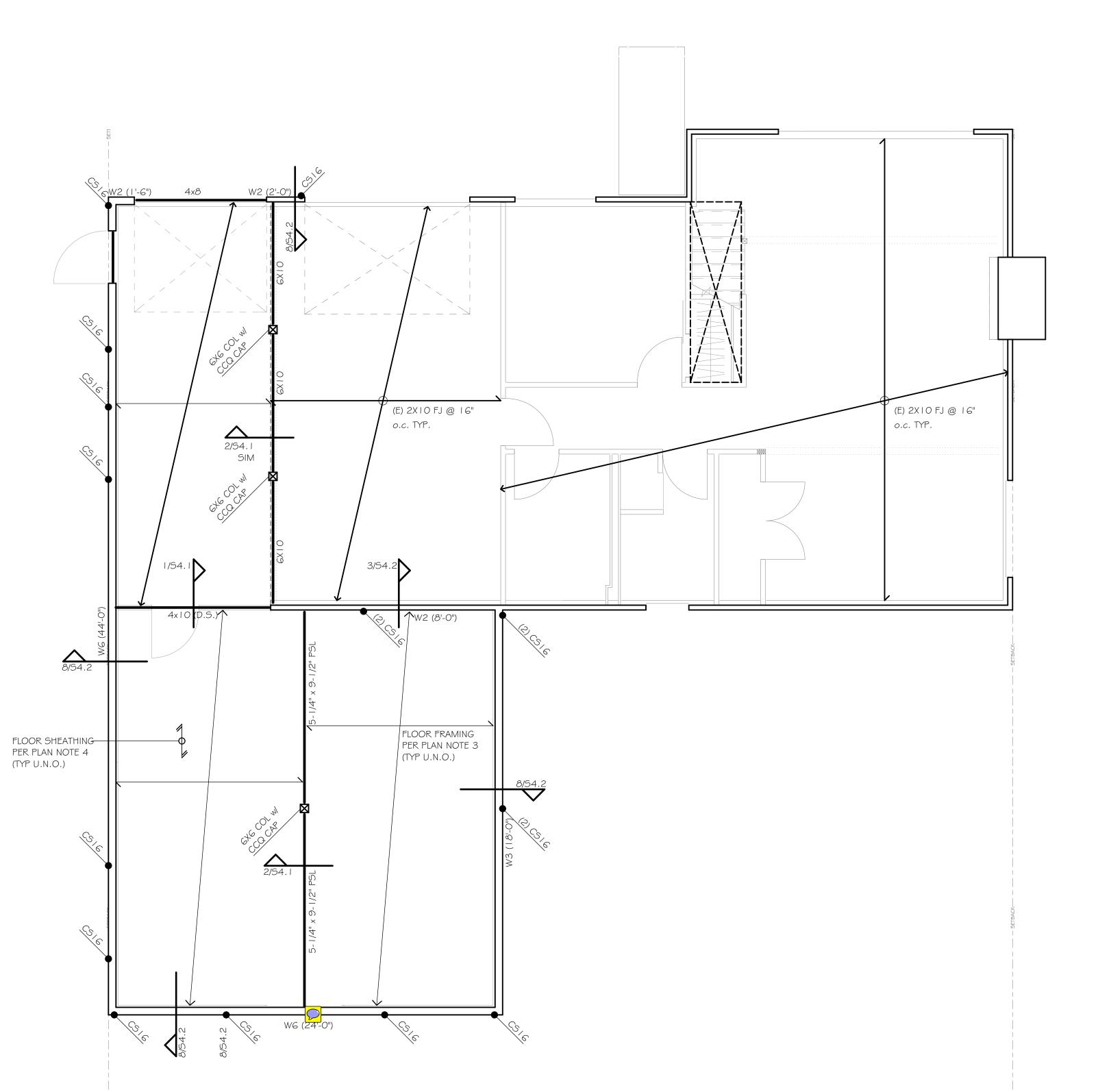
FOUNDATION PLAN



<u>Ist Floor Plan Notes</u>

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1)
 REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS
 SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- FLOOR FRAMING WHERE INDICATED TO BE 2x10 @ 16" O.C. (U.N.O.). 4. FLOOR SHEATHING SHALL BE 3/4" 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 9/54.1)

 5. "W#" REFERS TO SHEARWALL TYPE PER 3/54.1 \$ 7/54.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE WG. WHERE INDICATED, "(x-x)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE
- ACTUAL LENGTH WITH ARCHITECTURAL. 6. "CS I 6" REFERS TO HOLDOWNS PER 4/S4.2.
- PROVIDE TOP PLATE SPLICES PER 5/S4. I
- REFER TO 11/54.1 AT SHEARWALL INTERSECTIONS. 9. ALL HEADERS NOT NOTED OTHERWISE ON PLAN SHALL BE (2) 2x8 (REFER TO
- 10. "D.S." REFERS TO DRAG STRUT. NAIL FLOOR SHEATHING TO DRAG STRUT WITH (2) ROWS OF 8d COMMON (0.131" DIA. x 2 1/2') @ 4" O.C. (REFER TO 1/54.1)
- I I . CONTRACTOR TO VERIFY THAT ALL POSTS HAVE CONTINUOUS BEARING THROUGH TO THE FOUNDATION.



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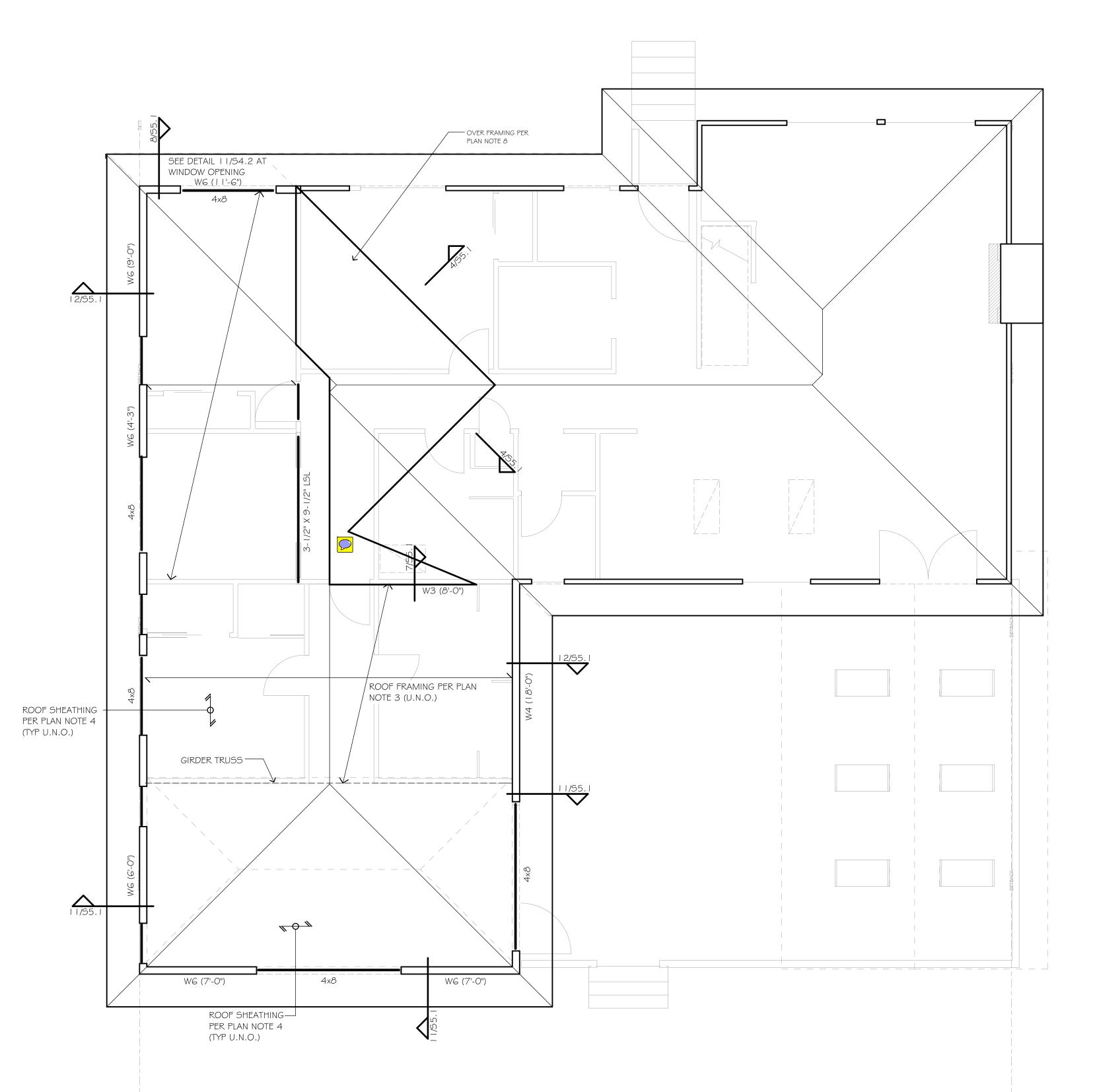
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PERMIT SET 11/1/2021 -CD SET

1ST FLOOR FRAMING PLAN

Roof Plan Notes

- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S I . I) 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 5/8" CDX PLYWOOD SHEATHING WITH 40/20 SPAN RATING. NAIL FRAMED PANEL EDGES w/ 8d COMMON (0.131" DIA. x 2 1/2") @ 6" O.C., FIELD @ 12" O.C. (REFER TO 9/54.1)
- 5. "W#" REFERS TO SHEARWALL TYPE PER 3/S4.1 \$ 7/S4.1. ALL OTHER NON-DESIGNATED EXTERIOR WALLS SHALL BE SHEARWALL TYPE WG. WHERE INDICATED, "(x-x)" REFERS TO MINIMUM SHEARWALL LENGTH. COORDINATE
- ACTUAL LENGTH WITH ARCHITECTURAL. 6. ALL HEADERS AT ROOF NOT NOTED OTHERWISE ON PLAN SHALL BE (2) 2x8. (REFER TO DETAIL 6/54.1)
- PROVIDE TOP PLATE SPLICES PER 5/S4. I 8. WHERE OVERFRAMING IS INDICATED, OVERFRAME WITH 2x6 @ 24" O.C. w/ 4'-0"
- MAX SPAN. (REFER TO DETAIL 4/S5. I FOR CONNECTION OF OVERFRAMING TO PRIMARY ROOF)
- 9. REFER TO 11/S4.1 AT SHEARWALL INTERSECTIONS.





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ROOF FRAMING PLAN



- P.T. 2x PLATE w/ A.B.

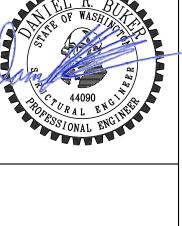
– (2) #4 CONT. TOP (1 EA. SIDE OF A.B.)

- REINFORCING PER

DETAIL 7/S3.2

PER SHEARWALL SCHEDULE

(¾"ø @ 48" O.C. ELSEWHERE)



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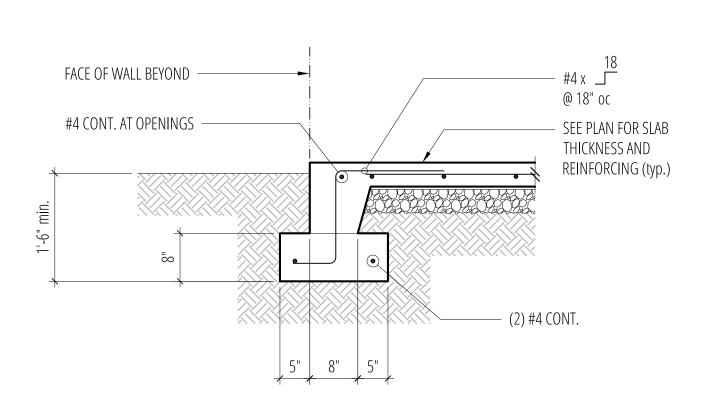
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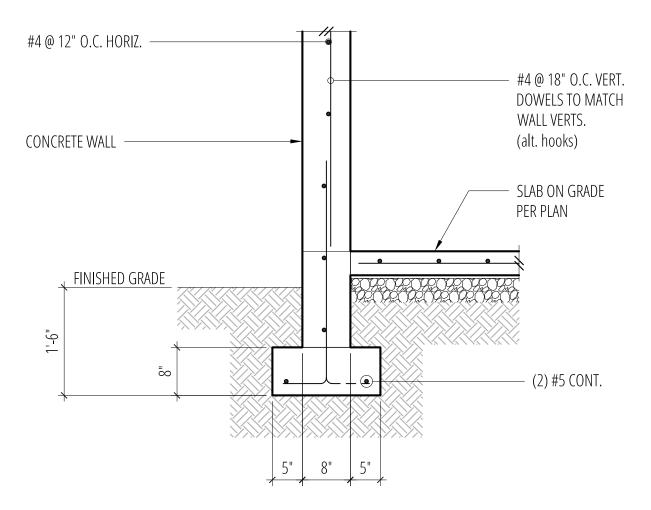
CONCRETE DETAILS

Sheet No.



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

Typical Turned-Down Slab Edge



PANEL EDGE NAILING -OVER ALL HOLDOWN STUDS - P.T. 2x PLATE w/ A.B. PER SHEARWALL SCHEDULE SHEARWALL PER PLAN (¾"ø@ 48" O.C. ELSEWHERE) (2) #4 CONT. TOP HOLDOWN (WHERE OCCURS) (1 EA. SIDE OF A.B.) PER PLAN w/ A.B. PER HOLDOWN SCHEDULE RETAINING WALL PER PLAN REINFORCING PER RETAINING WALL SCHEDULE - SLAB ON GRADE PER PLAN ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES

Exterior Wall w/ Slab on Grade at Retaining Wall

Typical Stud Wall at Top of Concrete Wall

PANEL EDGE NAILING -OVER ALL HOLDOWN STUDS

PER PLAN w/ A.B. PER

HOLDOWN SCHEDULE

SHEARWALL PER PLAN -

ALL FASTENERS INTO PRESSURE

TREATED WOOD SHALL BE GALV.

OR STAINLESS STEEL PER

GENERAL NOTES

HOLDOWN (WHERE OCCURS)

Typical Exterior Concrete Wall Footing

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

PROVIDE FREE-DRAINING MATERIAL PLACE SLAB PRIOR TO BACKFILLING WALL 1½" clr. @ #4's & #5's SLAB ON GRADE 2" clr. @ #6's FOOTING DRAIN

H (ft.)	B1	tc	B2	tf	STEM REIN	NFORCING	FOOTING RE	EINFORCING
	וט	ts			VERT.	HORIZ.	TOP	LONGIT.
3'-0"	5"	8"	5"	8"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(2) #4
4'-0"	1'-0"	8"	5"	8"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(2) #4
5'-0"	1'-6"	8"	5"	10"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(3) #4
6'-0"	2'-0"	8"	5"	10"	#4 @ 18" O.C.	#4 @ 12" O.C.	-	(4) #4
7'-0"	2'-3"	8"	9"	10"	#4 @ 12" O.C.	#4 @ 12" O.C.	-	(5) #4
8'-0"	2'-9"	8"	1'-0"	12"	#5 @ 12" O.C.	#4 @ 12" O.C.	#5 @ 18" O.C.	(5) #5
9'-0"	3'-3"	8"	1'-3"	13"	#5 @ 12" O.C.	#4 @ 12" O.C.	#4 @ 18" O.C.	(6) #5
10'-0"	3'-9"	8"	1'-6"	15"	#6 @ 12" O.C.	#4 @ 12" O.C.	#4 @ 18" O.C.	(7) #5

RETAINING WALL SCHEDULE w/ SLAB

ts B2

Retaining Wall Schedule (grade 40 reinforcing)

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

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

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

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

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

1'-6" min.

EXCAVATION NOT

ALLOWED BELOW

THIS LINE

BURKE "KEYKOLD" JOINT.

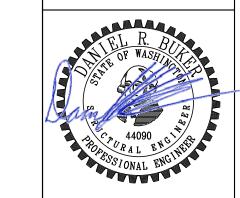
PLASTIC VAPOR BARRIER

FILL PER PLAN

AND COMPACT GRANULAR

STOP REINF. 1" CLEAR

OF JOINT EACH SIDE



esidenc Δ aborowski

8429 SE 62nd Street Mercer Island, WA 98040 langini $\sum_{i=1}^{n}$

No. Date Issue --/-- Permit

Sheet Contents

CONCRETE DETAILS

Sheet No.

EMBED DOWELS 3½" MIN. € POST, PLINTH, & FOOTING (E) MUDSILL POST PER PLAN (E) FOUNDATION WALL — SLAB ON GRADE PER PLAN - CB OR CBSQ SERIES COLUMN BASE AT BOTTOM DEPTH PER PLAN (12" MIN.) FOOTING SIZE & REINFORCING PER PLAN (E) FOOTING -

Post Footing w/ Slab on Grade

LENGTH SCHEDULE FOR F'c = 2500 psi, GRADE 60 REINFORCING

IVIIIVII	VIUM STRAIGHT DEVELOPMENT	LENGIH (ŁO)
BAR SIZE	TOP BARS	OTHER BARS
#3	23"	18"
#4	31"	24"
#5	40"	30"
#6	47"	36"
#7	68"	53"
#8	78"	60"

		MINIMUM LAP SPLICE LENG	THS (&s)
_	BAR SIZE	TOP BARS	OTHER BARS
_	#3	31"	23"
_	#4	41"	31"
_	#5	51"	40"
_	#6	62"	47"
	#7	89"	68"
_	#8	102"	78"
_	#9	114"	88"
_	#10	130"	99"
_	#11	1/12"	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,

MINIMUM EMBEDMENT LENGTHS (ldh) FOR STANDARD END HOOKS

DAD CI7E	LENCTH
BAR SIZE	LENGTH
#3	7"
#4	9"
#5	11"
#6	13"
#7	14"
#8	17"
#9	19"
#10	21"
#11	24"

REINFORCING SPLICE AND DEVELOPMENT

	MININ	NUM STRAIGHT DEVELOPMENT	LENGTH (ld)
	BAR SIZE	TOP BARS	OTHER BARS
-	#3	23"	18"
-	#4	31"	24"
-	#5	40"	30"
	#6	47"	36"
	#7	68"	53"
	#8	78"	60"
	#9	88"	68"
	#10	99"	77"

		MINIMUM LAP SPLICE LENG	ΓHS (ℓs)
	BAR SIZE	TOP BARS	OTHER BARS
_	#3	31"	23"
	#4	41"	31"
_	#5	51"	40"
	#6	62"	47"
_	#7	89"	68"
	#8	102"	78"
	#9	114"	88"
	#10	130"	99"
_	#11	143"	110"

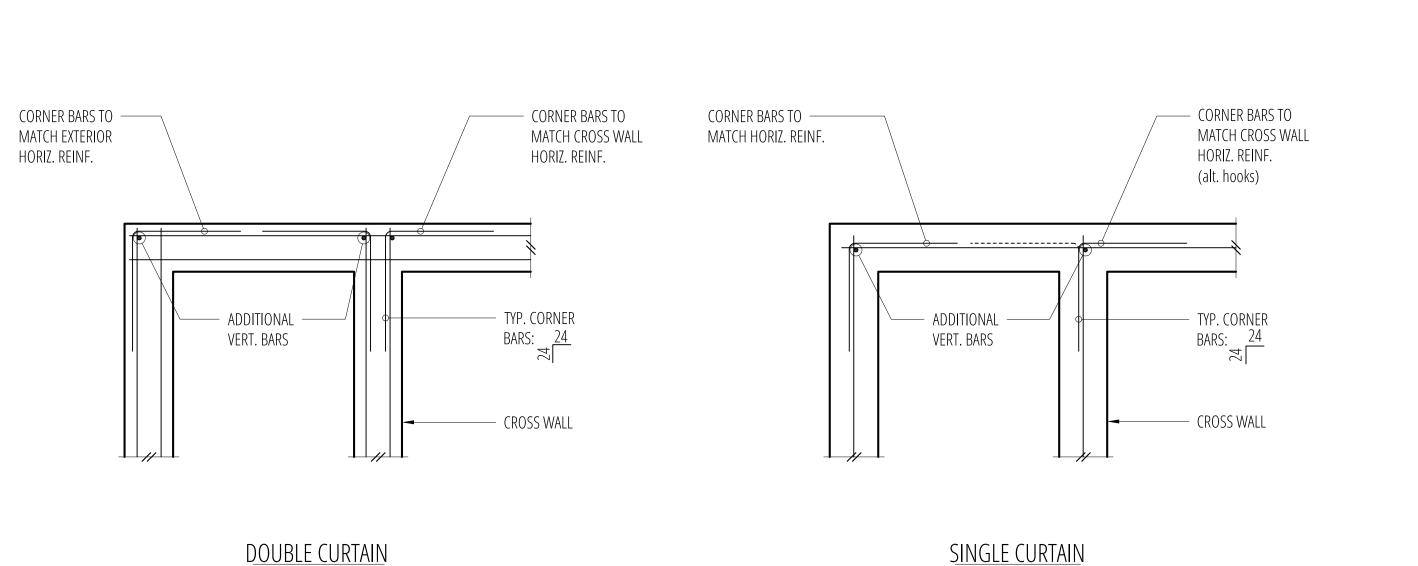
THEN LENGTHS SHALL BE INCREASED BY 50%

FOR STANDARD END HOOKS			
BAR SIZE	LENGTH		
#3	7"		
#4	9"		
#5	11"		
#6	13"		
<u>#</u> 7	14"		
#8	17"		
<u>#</u> 9	19"		
#10	21"		
#11	24"		

1. SIDE COVER MUST BE EQUAL TO OR GREATER THAN $2\frac{1}{2}$ "

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

Lap Splice and Development Schedule SCALE: 3/4"=1'-0"



EPOXY DOWEL REINF. #5 x 24 @ 12" O.C.

- 2x P.T. MUDSILL

WALL AND FOOTING

REINFORCING PER

DETAIL 11/S3.2

⅓" x 1½" PRE-MOLDED

(joint may be saw cut at

PLASTIC VAPOR BARRIER

FILL PER PLAN

AND COMPACT GRANULAR

PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE TO BREAK

UP SLAB INTO RECTANGULAR AREAS OF

400 SQUARE FEET OR LESS. AREAS TO BE APPROX. SQUARE AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS TO BE APPROVED BY THE ARCHITECT.

contractors option)

CONT. MASTIC JOINT STRIP.

Epoxy Dowel Connection at (E) Foundation

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

CONTROL JOINT

SEE PLAN FOR SLAB

REINFORCING (typ.)

CUT ALTERNATE

WIRES AT JOINT

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

THICKNESS AND

DO NOT PASS PIPES

PIPE SLEEVES

Pipe and Trench Locations

SECOND POUR FIRST POUR

CONSTRUCTION JOINT

THRU THIS AREA

2'-0" min.

SEE PLAN FOR SLAB

REINFORCING (typ.)

THICKNESS AND

Typical Corner Bars at Concrete Walls and Footings

HDU Holdown Schedule

Anchor

Bolt ② Embed

1 MINIMUM SIZE OF POST AT END OF WALL UNLESS NOTED OTHERWISE ON FRAMING PLANS.

③ AT (E) FOUNDATION, PROVIDE EPOXY GROUTTED THREADED ROD (DIA. PER MAUNFACTURER)

② "SSTB" & "SB" REFER TO ANCHOR BOLTS BY SIMPSON STRONG-TIE. INSTALL PER MANUFACTURER.

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

Holdown Schedule

HDU2-SDS2.5

HDU4-SDS2.5

(6) SDS ¼" x 2 ½"

(10) SDS ¼" x 2½"

HDU5-SDS2.5 (14) SDS ¼" x 2 ½" SB ⅓ x 24

SHEARWALL PER PLAN

SHEARWALL SCHEDULE

HOLDOWN POST PER

FRAMING CONTINUES

ANCHOR BOLTS PER SCHEDULE BELOW

Capacity

2215/3075

4565

Holdown Post ①

4x6

IF 2x4 IF 2x6

(2) 2x4

4x4

4x4

WHERE OCCURS

SCHEDULE BELOW HDU HOLDOWN

EDGE NAIL PER

4887	

Sid

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borowski

Mangini

SE 62nd Street Island, WA 98040

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Sheet Contents

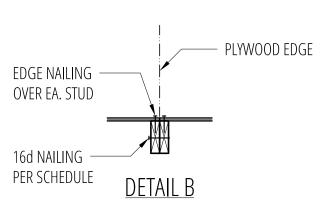
FLOOR FRAMING DETAILS

Sheet No.

SHEARWALL SCHEDULE 123567 PANEL EDGE SHEATHING

BASE PLATE CONNECTION TOP PLATE CONNECTION NAILING IF TJI IF 2x OR LSL AT WOOD AT CONCRETE ⅓" ø A.B. @ 48" OC 16d @ 6" OC A35 @ 24" OC 16d @ 6" OC W6 ¹⁵/₃₂" CDX PLYWOOD 8d @ 6"OC A35 @ 16" OC %" ø A.B. @ 32" OC W4 ¹⁵/₃₂" CDX PLYWOOD 8d @ 4" OC 16d @ 4" OC 16d @ 4" OC 16d @ 3" OC ① A35 @ 12" OC ⅓" ø A.B. @ 16" OC W3 4 (2) ROWS 16d @ 6" OC 15/32" CDX PLYWOOD 8d @ 3"OC A35 @ 9" OC (2) ROWS 16d @ 4½" OC 15/32" CDX PLYWOOD 8d @ 2"OC

- 1. BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12' o.c.
- 2. 8d NAILS SHALL BE 0.131" $\boxtimes 2 \frac{1}{2}$ " (common) 16d NAILS SHALL BE 0.135" ø x 3 $\frac{1}{2}$ " (box)
- 3. EMBED ANCHOR BOLTS AT LEAST 7" EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" PLATE WASHERS. EXTEND TO WITHIN ½" OF THE PLYWOOD SHEATHING.
- 4. 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.
- 5. TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS AND ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING.
- 6. ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.
- 7. $\frac{7}{16}$ " O.S.B. MAY BE SUBSITUTED FOR $\frac{15}{32}$ " CDX.
- 8. LTP4's MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- 9. A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- 10. STAGGER NAILS IN ROW W/ ½" MIN. OFFSET.
- 11. MINIMUM OFFSET BETWEEN ROWS ½, AND MINIMUM RIM OR JOIST 3 ½" WIDE.



<u>DETAIL A</u>

16d NAILING

2x NAILER

PER SCHEDULE

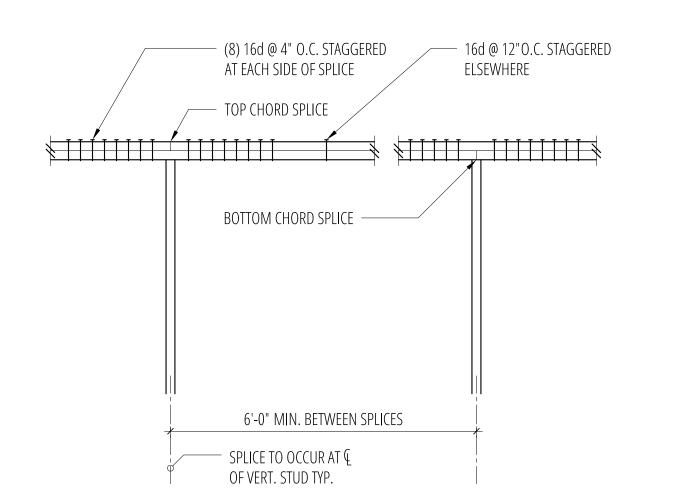
PLAN VIEW AT ABUTTING PANEL EDGES OF W3 & W2

Shearwall Schedule

Typical Drag Strut SCALE: 3/4"=1'-0"

Typical Flush Beam / Header

BEAM PER PLAN

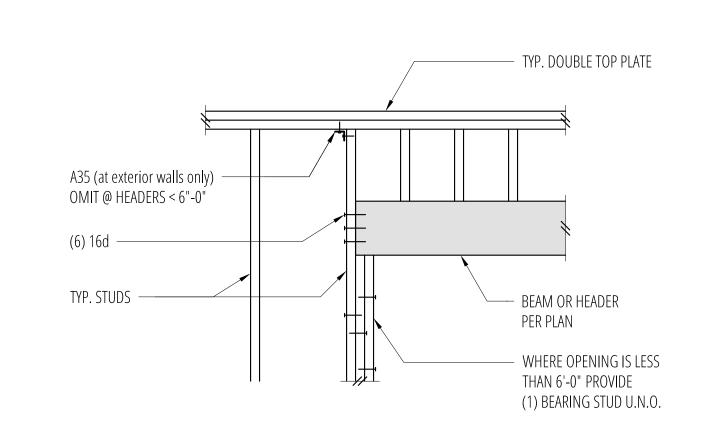


- (2) ROWS PANEL EDGE NAILING

PER PLAN

ROOF/FLOOR SHEATHING

DRAG STRUT PER PLAN



SCALE: 3/4"=1'-0" 2x BLOCKING BTWN. JOISTS

2x OR LSL

16d NAILING

JOISTS AND

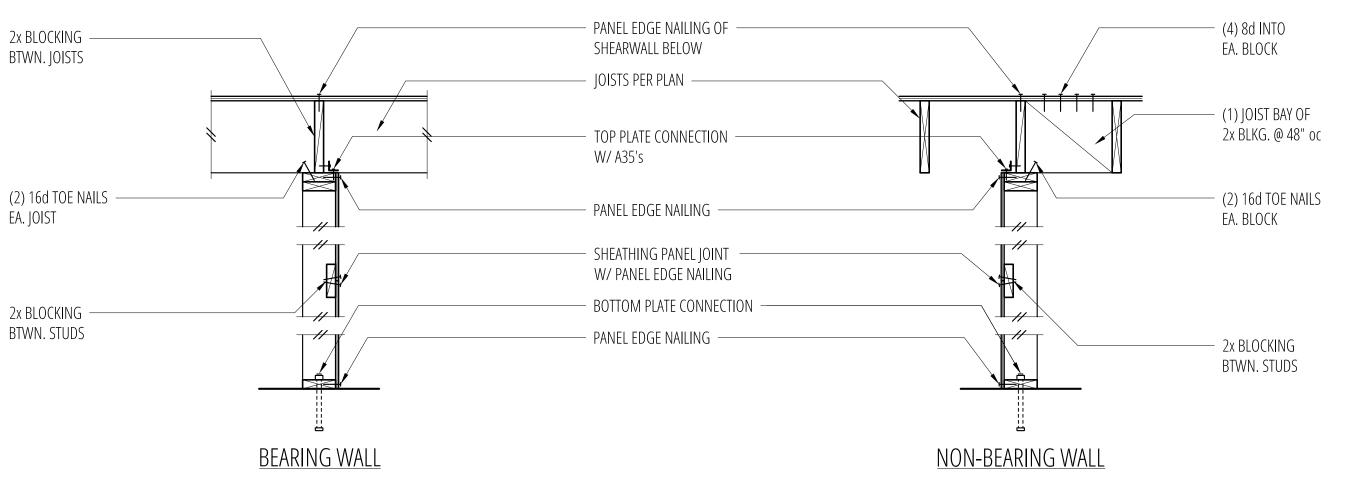
SHEATHING

PER PLAN

- LUS SERIES

HANGER

PER SCHEDULE



SEE SHEARWALL SCHEDULE FOR ALL NAILING AND CONNECTIONS, NOT OTHERWISE NOTED

5 Typical Top Plate Splice
SCALE: 3/4"=1'-0"

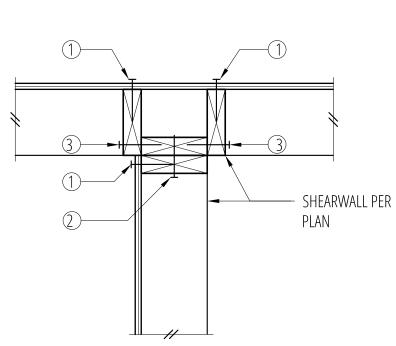
Typical Header Support

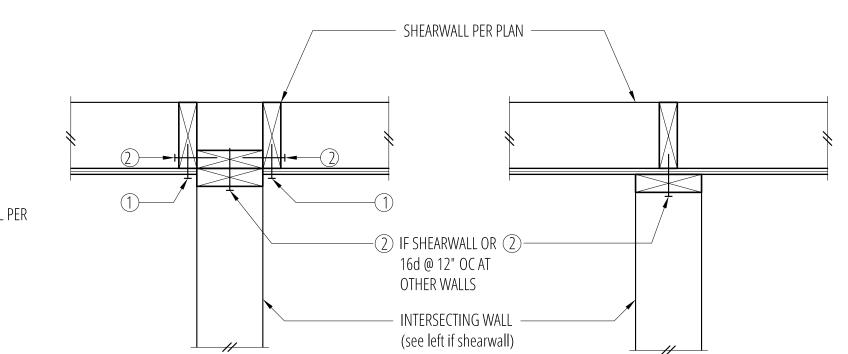
SCALE: 3/4"=1'-0"

EDGE NAILING 2x4 FLAT BLOCKING AT -PER PLAN UNFRAMED PANEL EDGES WHERE BLOCKED DIAPHRAGM FIELD NAILING IS SPECIFIED ON PLAN PER PLAN FRAMING PER PLAN -PROVIDE EDGE NAILING AT ALL HIPS, VALLEYS, RIDGE AND SHEARWALLS STAGGER PLYWOOD AS SHOWN PLAN VIEW

9 Typical Diaphragm Sheathing and Nailing SCALE: 3/4"=1'-0"

Typical Shearwall Construction SCALE: 3/4"=1'-0"

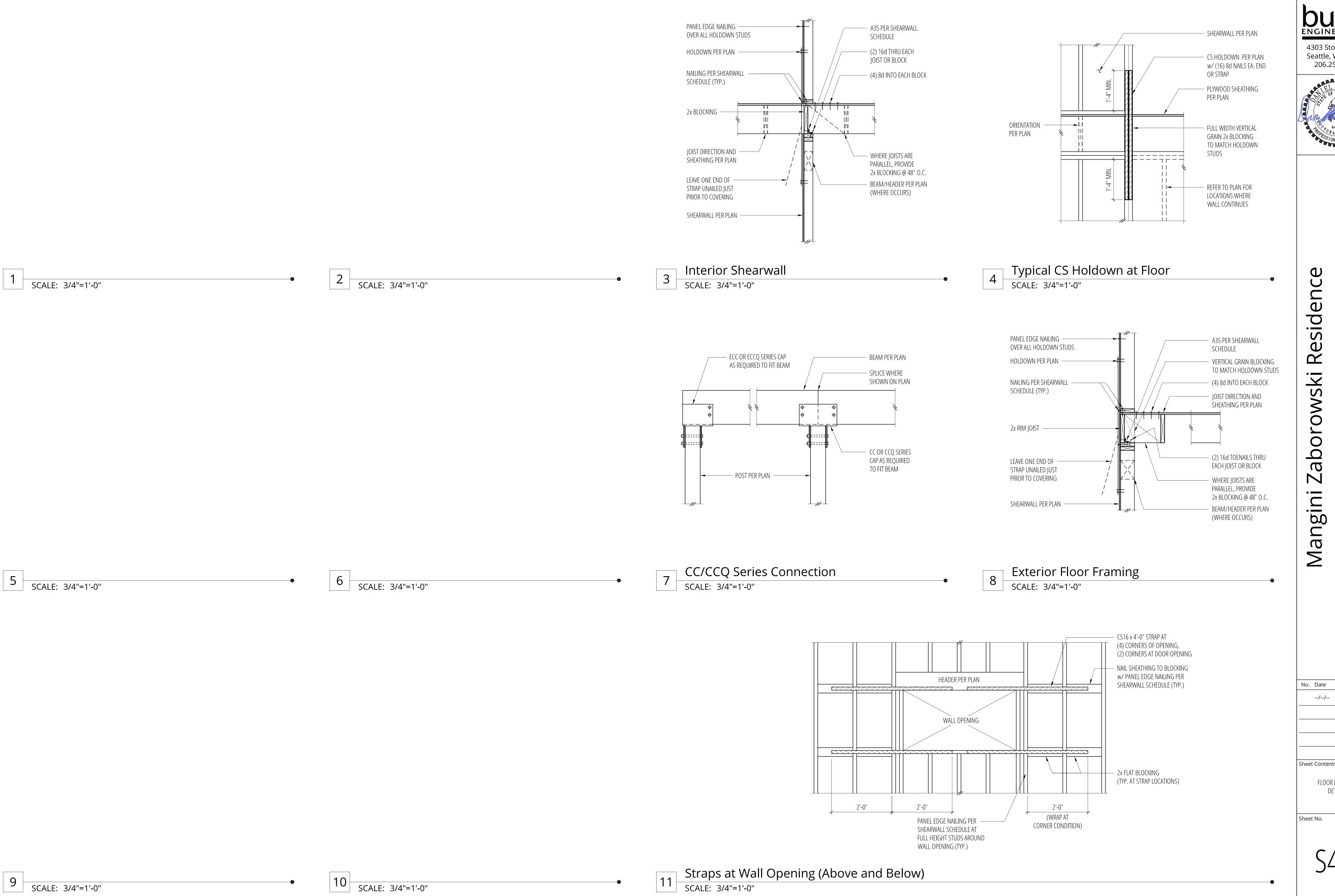




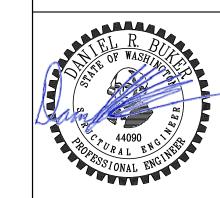
- PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- (2) BASE PLATE NAILING PER SHEARWALL SCHEDULE
- ③. 16d @ 8" OC

Typical Shearwall Intersection

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



buker ENGINEERING 4303 Stone Way N Seattle, WA 98103 206.258.6333



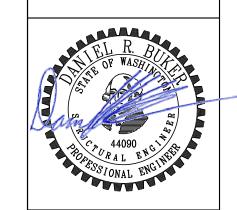
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No. Date lssue --/-- Permit

Sheet Contents

FLOOR FRAMING DETAILS

S4.2

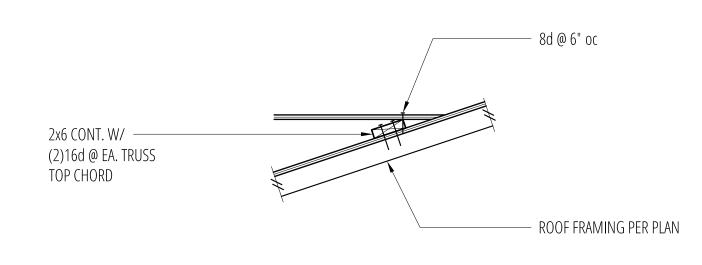


Residence

Zaborowski

Mangini

8429 SE 62nd Street Mercer Island, WA 98040

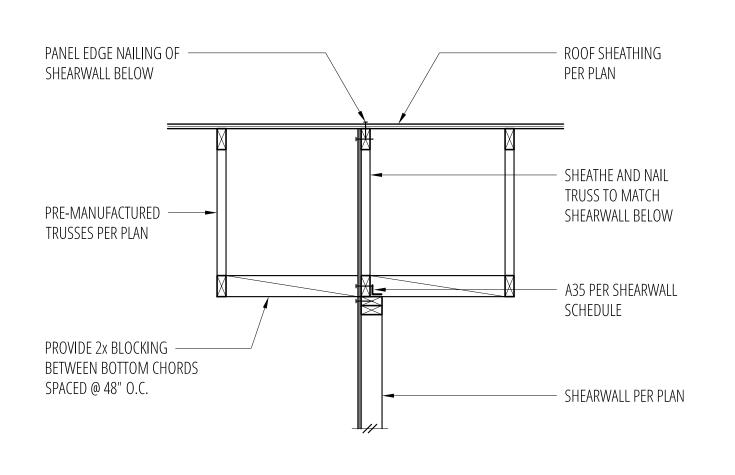


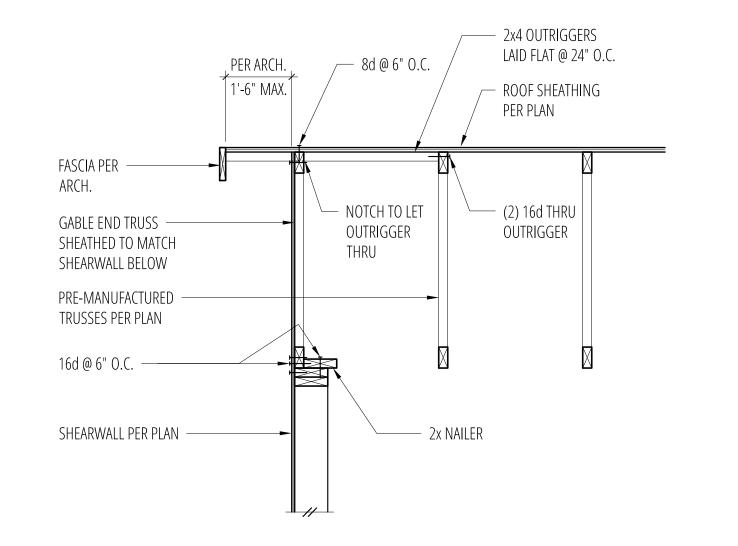
SCALE: 3/4"=1'-0"

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

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

Overframing Connection





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

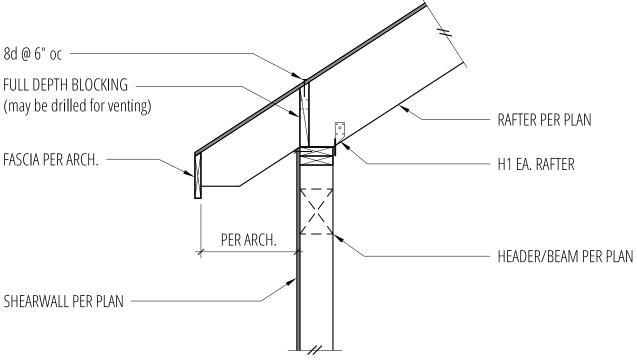
SCALE: 3/4"=1'-0"

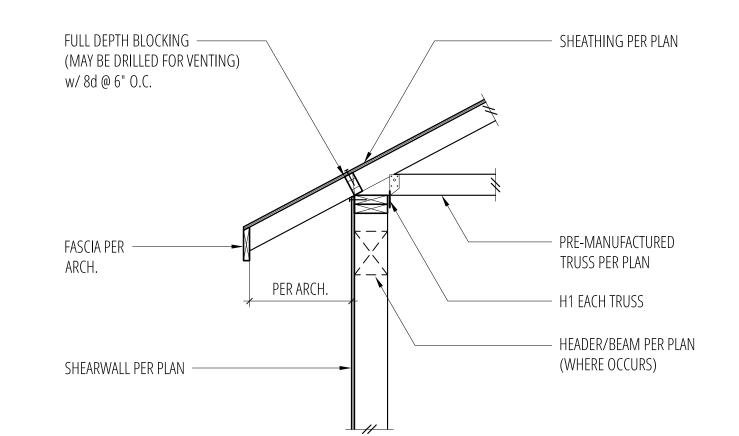
Shearwall Extension Thru Truss Depth (Parallel to Truss)

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



12 Exterior Bearing Wall at Roof
SCALE: 3/4"=1'-0"



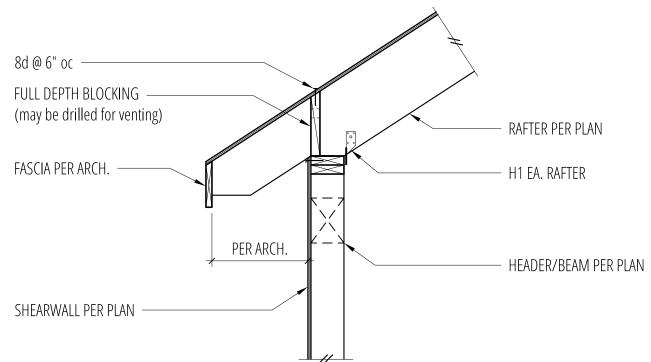


--/--/-- Permit Sheet Contents ROOF FRAMING

No. Date Issue

DETAILS Sheet No.

\$5.1

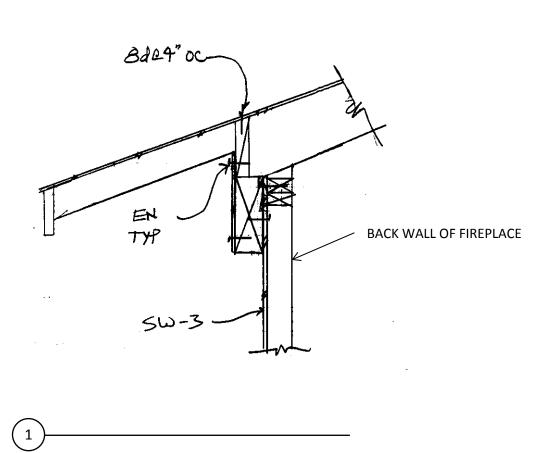


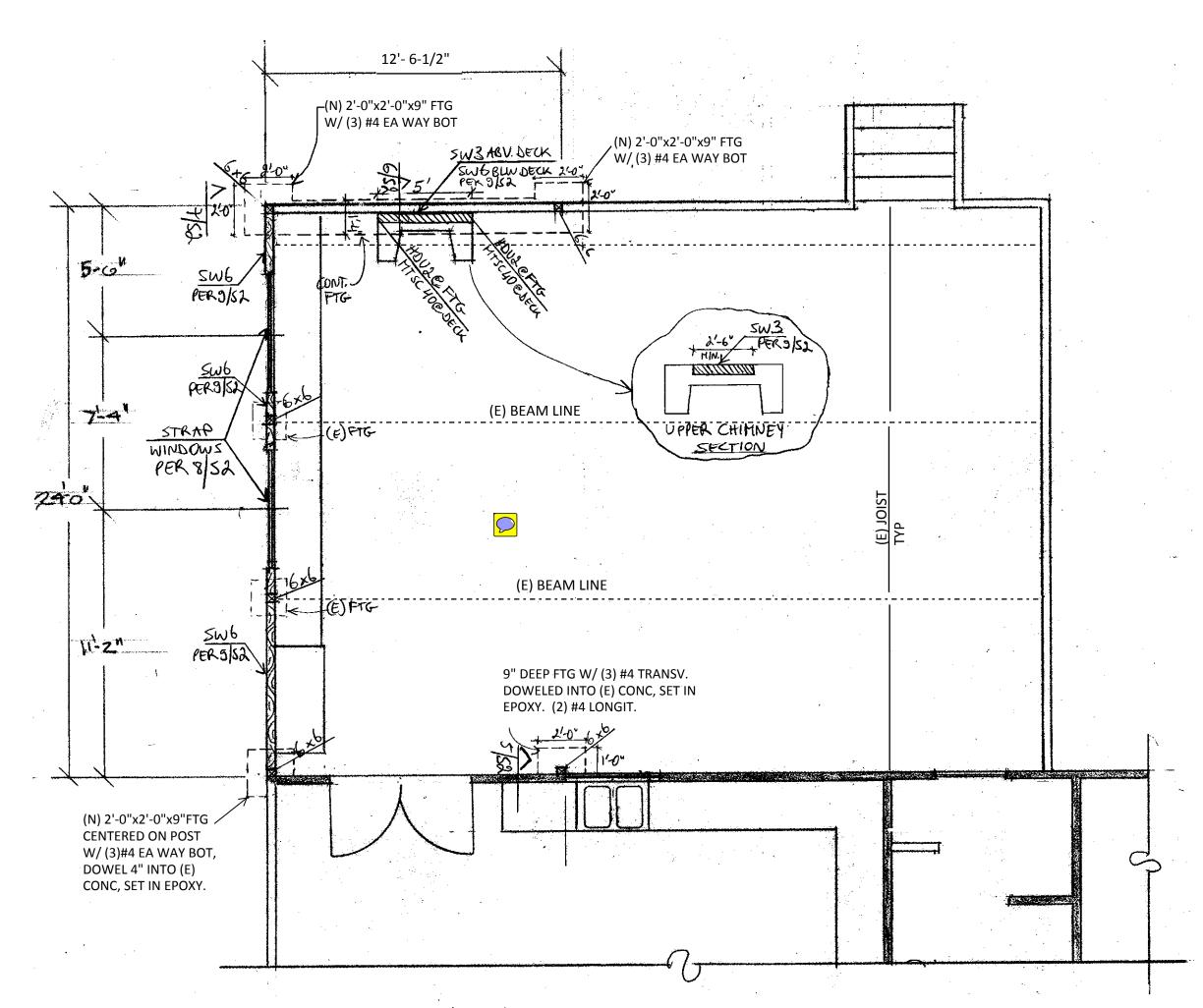
Exterior Bearing Wall At Roof

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

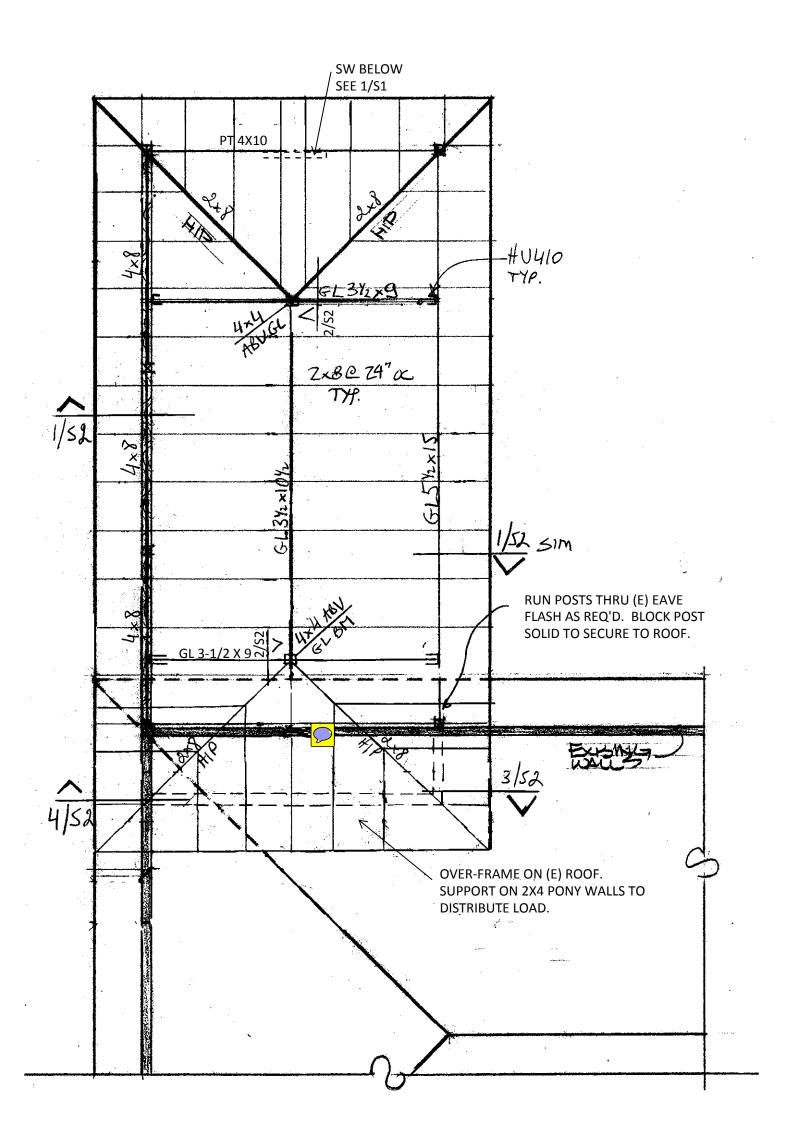
9 SCALE: 3/4"=1'-0"

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





FLOOR / FOUNDATION PLAN 1/4"=1'-0"



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

STRUCTURAL NOTES

DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION.

CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURAL COMPONENTS OF THE NEW AND EXISTING STRUCTURE 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 HIS WORK.

DESIGN LOADS

ROOF SNOW 25 PSF ROOF DL 12 PSF FLOOR LL 60 PSF FLOOR DL 15PSF

WIND DESIGN CRITERIA

WIND (ASCE 7-10) 110 MPH (3 sec gust), EXPOSURE "B", Kzt = 1.6

SEISMIC DESIGN CRITERIA

EARTHQUAKE (ASCE 7-10) SITE CLASS D

OCCUPANCY CATEGORY II (Ie = 1.0)

SEISMIC DESIGN CATEGORY D

Ss =1.457g, S1 = 0.55g

Sds=0.971g, Sd1 =0.559g

P=6.5

R=6.5 V = 0.136W = 1.1k EQUIVALENT LATERAL FORCE PROCEDURE

LATERAL LOADS ARE RESISTED BY STRUCTURAL PANEL SHEAR WALLS AND DIAPHRAGMS

SOIL BEARING 1500 PSF (ASSUMED)

CARPENTRY

POST - 6X, 8X DOUG-FIR #2, Fb = 850 PSI FRAMING – 2X, 4X HEM-FIR #2, Fb = 850 PSI 24F-V4

FRAMING HARDWARE DESIGNATIONS ARE SIMPSON STRONG-TIE. USE FULL AMOUNT OF FASTENERS SPECIFIED BY MFR. HARDWARE IN CONTACT WITH PESERVATIVE TREATED WOOD SHALL BE Z-MAX OR HOT-DIPPED GALVANIZED.

FRAMING NAILING SHALL CONFORM TO TABLE 2304.9.1 OF THE 2012 IBC UNO.

HEADERS SHALL BEAR ON (2) 2X TRIM STUDS.

ROOF SHEATHING: 1/2" PLYWOOD OR OSB, 24/0, EXT GRADE NAIL ROOF SHEATHING WITH 8d COMMON (.131 x 2-1/2" DIA) @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.

<u>CONCRETE</u>

COMPRESSIVE STRENGTH @ 28 DAYS = 2500 PSI. PROVIDE A MINIMUM OF 5 SACKS CEMENT PER CUBIC YARD. CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.

PEINEOPOING STEEL SHALL BE ASTM A615. GRADE 60

REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
MINIMUM CONCRETE COVER:

CONCRETE CAST AGAINST EARTH – 3"
 CONCRETE EXPOSED TO EARTH OR WEATHER – 1-1/2"

REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 318 (LATEST EDITION). LAP ALL CONTINUOUS REINFORCEMENT 32". PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS. LAP CORNER BARS.

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

ALL HOOKS SHALL BE "STANDARD" IN ACCORDANCE WITH ACI 318.

<u>FOUNDATIONS</u>

FOUNDATIONS SHALL BEAR ON FIRM NATIVE SOILS OR COMPACTED STRUCTURAL FILL.

CLEAN EXCAVATIONS OF LOOSE SOIL PRIOR TO PLACING CONCRETE.

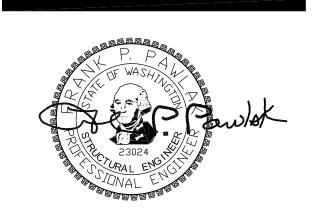
HOLD-DOWNS

DU2 5/8" DIA THREADED ROD,

9" EMBED

FOSSATTI PAWLAK STRUCTURAL ENGINEERS 1735 Westlake Ave N, Ste 205 Seattle, WA 98109 Phone:206.456.3071 Fax:206.456.3076

www.fossatti.com



PROJECT

Deck Cover 8429 SE 62nd ST

NO. DATE

12/2/14 14-204 DATE JOB#

DESIGN CHECKED

LMS AS NOTED

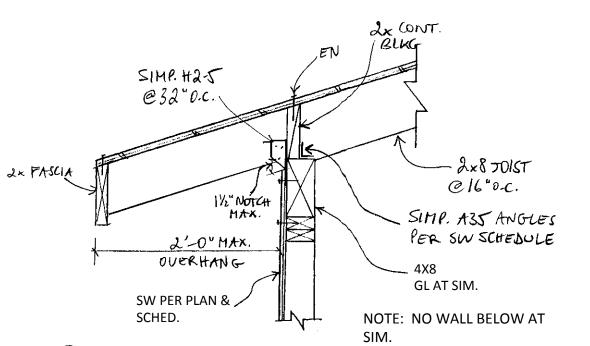
DRAWN SCALE

SHEET TITLE

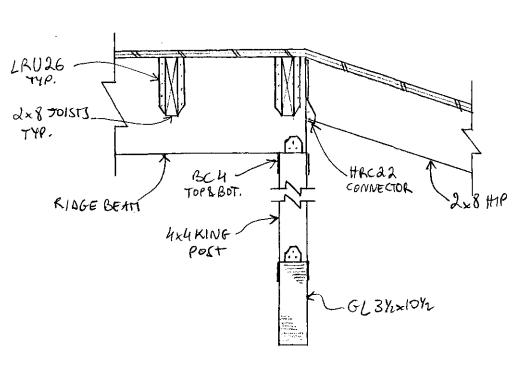
FRAMING/ FOUNDATION PLANS NOTES

SHEET NO.

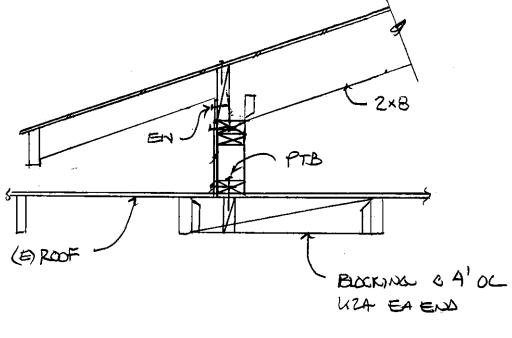
S1



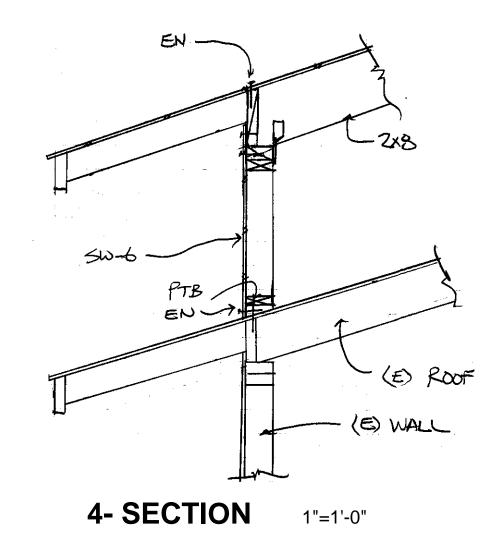
1- ROOF EAVE SECTION AT WALL 1"=1'-0"



2- ROOF SECTION 1"=1'-



3- SECTION 1"=1'-0

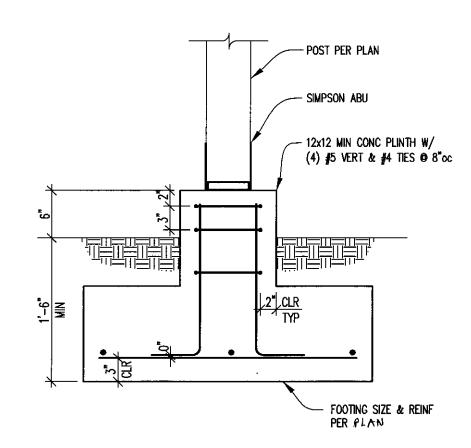


(2) #4 (5) WALL

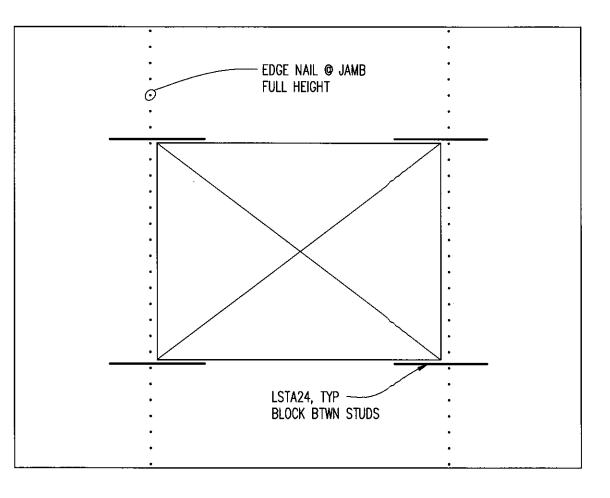
SET IN EPOXY

4" EMBED

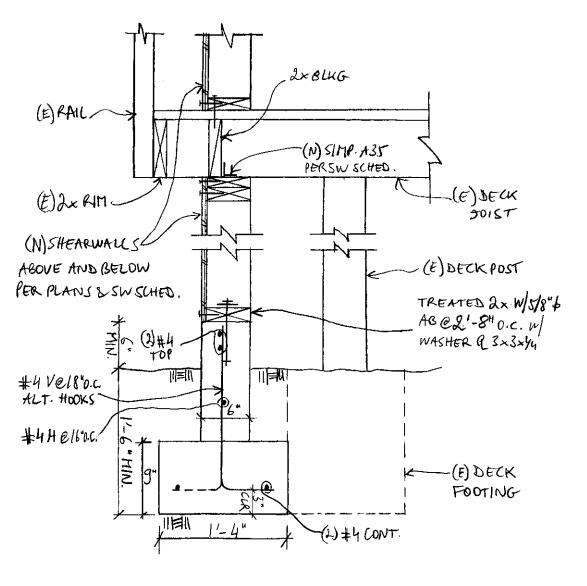
1"=1'-0"



7- TYP COLUMN FOOTING 1"=1'-0"



8- STRAP AT OPENING 1"=1'-0"



6- FOUNDATION SECTION 1"=1'-0"

SHEAR WALL SCHEDULE (HEM FIR LUMBER WITH 8d NAILS)

SHEAR TIME SOMEDOLE (HEIN THE COMBER WITH ON THREE)								
SHEATHING (NOTES 1,2,3,4,8)		IATERAL	WALL PLATE TO	5%* & ANCHOR	ALLOWABLE SHEAR	STUDS	BLOCKING/ FDN PLATE	
APPLICATION	PANEL EDGE NAIL SPACING (NOTE 9)	TIE PLATE OR (NOTE 5)	BLOCKING NAILING (NOTES 5,9)	BOLT SPACING	CAPACITY	(MIN)	(MIN) (NOTE 7)	
ONE SIDE	8d @ 6"oc	LTP4 @ 24"oc	16d @ 6"oc	48"oc	240	2x	2x	
ONE SIDE	8d @ 4"oc	LTP4 @ 16"oc	16d © 4"oc	32"oc	350	2x	2x	
ONE SIDE	8d @ 3"oc	LTP4 @ 12"oc	16d @ 3"oc	24"oc	455	3x	3x	
ONE SIDE	10d @ 2"oc	LTP4 @ 6"oc	16d @ 2"oc	16"oc	595	3x	3x	
	SHEATHING APPLICATION ONE SIDE ONE SIDE ONE SIDE	SHEATHING (NOTES 1,2,3,4,8) APPLICATION PANEL EDGE NAIL SPACING (NOTE 9) ONE SIDE 8d © 6"oc ONE SIDE 8d © 4"oc ONE SIDE 8d © 3"oc	SHEATHING (NOTES 1,2,3,4,8) APPLICATION PANEL EDGE NAIL SPACING (NOTE 9) ONE SIDE 8d @ 6"oc LTP4 @ 24"oc LTP4 @ 16"oc ONE SIDE 8d @ 3"oc LTP4 @ 12"oc	SHEATHING (NOTES 1,2,3,4,8) APPLICATION PANEL EDGE NAIL SPACING (NOTE 9) ONE SIDE 8d @ 6"oc LTP4 @ 24"oc 16d @ 6"oc LTP4 @ 16"oc 16d @ 4"oc ONE SIDE 8d @ 3"oc LTP4 @ 12"oc 16d @ 3"oc	SHEATHING (NOTES 1,2,3,4,8) APPLICATION PANEL EDGE NAIL SPACING (NOTE 9) ONE SIDE 8d © 6"oc ONE SIDE 8d © 4"oc ONE SIDE 8d © 4"oc ONE SIDE 8d © 3"oc LTP4 © 16"oc LTP4 © 12"oc 16d © 3"oc LTP4 © 12"oc 16d © 3"oc \$\frac{\partial_{\text{N}}}{\partial_{\text{N}}} \partial_{\text{N}} \partial_{\	SHEATHING (NOTES 1,2,3,4,8) APPLICATION PANEL EDGE NAIL SPACING (NOTE 9) ONE SIDE Bd @ 6"oc ONE SIDE Bd @ 4"oc ONE SIDE Bd @ 4"oc ONE SIDE Bd @ 3"oc LTP4 @ 16"oc LTP4 @ 12"oc LTP4 @ 12"oc 16d @ 3"oc LTP4 @ 12"oc 16d @ 3"oc \$" ALLOWABLE SHEAR CAPACITY (NOTE 5) (NOTE 8) CAPACITY (PLF)(NOTE 7) 48"oc 32"oc 350 350	SHEATHING (NOTES 1,2,3,4,8)	

* ALLOWABLE VALUE IS REDUCED FROM IBC TABLE FOR FRAMING SIZE.

NOTES:

1. SHEATHING SHALL BE 15/22" OR ½" PLY, TYP UNO.

2. SHEATHING SHALL BE APPLIED DIRECTLY TO FRAMING.

3. PROVIDE SOLID BLOCKING AT ALL SHEATHING PANEL EDGES.

4. PROVIDE 8d © 12"oc AT ALL INTERMEDIATE SUPPORTS (FIELD NAIL), TYP UNO.

5. LATERAL TIE PLATES OR WALL PLATE TO BLOCKING NAILING IS REQUIRED WHERE SHEATHING IS DISCONTINUOUS, i.e., WHERE ADJACENT SHEATHING EDGES ARE NOT NAILED TO THE SAME PIECE OF FRAMING. TOE NAILING IS NOT PERMITTED. LATERAL TIE PLATES MAY BE SUBSTITUTED FOR WALL PLATE TO BLOCKING NAILING. INSTALL LATERAL TIE PLATES OVER APA RATED SHEATHING PANELS. USE COMMON NAILS OR EQUIVALENT NAILS SUPPLIED BY CONNECTOR MANUFACTURER FOR LATERAL TIE PLATES. A35 FRAMING ANCHORS MAY BE SUBSTITUTED FOR LATERAL TIE PLATES AT SPACING SHOWN ABOVE.

6. WHERE SHEATHING IS APPLIED TO BOTH SIDES, STAGGER PLYWOOD JOINTS SO THAT JOINTS ON EACH SIDE OF THE WALL DO NOT OCCUR AT THE SAME STUD. PROVIDE 3x BLOCKING/FOUNDATION PLATES FOR ALL DOUBLE SHEATHED WALLS.

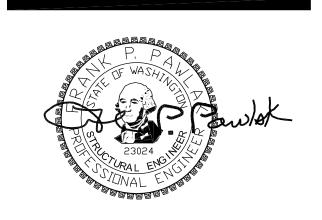
7. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR ENTIRE LENGTH OF WALLS NOTED ON PLANS. ENDS OF WALLS ARE DESIGNATED BY EXTERIOR OF BUILDING, CORRIDORS, OR DOORWAYS. PROVIDE HOLDOWNS PER PLANS AT EACH END OF WALL, UNO. PROVIDE EDGE NAILING TO STUD(S) GRIPPED BY HOLDOWN.

8. CRITERIA: 2012 IBC
HEM FIR LUMBER
2500 psi CONCRETE MINIMUM

9- SHEARWALL DETAIL NTS

ASTM A307 ANCHOR BOLTS WITH $2\frac{1}{4}$ " EDGE DISTANCE IN CONCRETE AND 7" MINIMUM EMBEDMENT; USE $\frac{1}{8}$ " Ø EXP ANCHORS W/ MIN 4" EMBED @ EXISTING CONCRETE.





PROJECT

Deck Cover 8429 SE 62nd ST

REVISIONS							
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<u>12/2/1</u> DATE	4	14-204 JOB#					
DESIG		FPP CHECKED					
<u>LM</u> DRAW	<u>IS</u> 'N	AS NOTED SCALE					

DETAILS

SHEET TITLE

SHEET NO.

S2