

GENERAL NOTES

1. CODE COMPLIANCE:
ALL WORK SHALL COMPLY WITH THE 2018 IRC, 2018 IMC, 2018 IFGC, 2018 F.C.C., 2018 IFC, 2018 MEC, 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH WASHINGTON STATE AMENDMENTS, 2009 ICC A117.1, AND WITH ALL LOCAL CODES AND ORDINANCES.

2. DIMENSIONS:
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF DISCREPANCIES. IF WORK IS STARTED PRIOR TO NOTIFICATION, THE GENERAL AND SUBCONTRACTOR PROCEED AT THEIR OWN RISK. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TO FACE OF STUDS OR FACE OF CONCRETE WALLS. FACE OF STONE VENEER LIES 6" +/- OUTSIDE THE FACE OF FRAMING. INTERIOR PLAN DIMENSIONS ARE TO FACE OF STUDS UNLESS OTHERWISE NOTED. VERIFY ALL ROUGH-IN DIMENSIONS FOR WINDOWS, DOORS, PLUMBING, ELECTRICAL FIXTURES AND APPLIANCES PRIOR TO COMMITMENT OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES OF DIMENSIONAL TOLERANCES REQUIRED.

3. DOCUMENT REVIEW/VERIFICATION:
CONSULT WITH ARCHITECT REGARDING ANY SUSPECTED ERRORS, OMISSIONS, OR CHANGES ON PLANS BEFORE PROCEEDING WITH THE WORK.

4. ROUGH OPENINGS/BACKING:
VERIFY SIZE AND LOCATION, AS WELL AS PROVIDE ALL OPENINGS THROUGH FLOORS AND WALLS, FURRING, CURBS, ANCHORS, INSERTS, EQUIPMENT BASES AND ROUGH BUCKS/BACKING FOR SURFACE-MOUNTED ITEMS.

5. FURRING:
PROVIDE FURRING AS REQUIRED TO CONCEAL MECHANICAL AND/OR ELECTRICAL EQUIPMENT IN FINISHED AREAS. FURRING NOT SHOWN ON PLANS SHALL BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION.

6. GRADES:
VERIFY ALL GRADES AND THEIR RELATIONSHIP TO THE BUILDING(S).

7. FLOOR LINES:
FLOOR LINE REFERS TO TOP OF CONCRETE SLAB OR TOP OF WOOD SUBFLOOR.

8. REPETITIVE FEATURES:
OFTEN DRAWN ONLY ONCE AND SHALL BE PROVIDED AS IF FULLY DRAWN.

9. DOORS:
DOORS NOT DIMENSIONALLY LOCATED SHALL BE 6" FROM STUD FACE TO EDGE OF DOOR, ROUGH OPENING OR CENTERED BETWEEN WALLS AS SHOWN.

10. WOOD MEMBERS IN CONTACT WITH CONCRETE, AND/OR EXPOSED TO WEATHER:
TO BE PRESSURE TREATED, TYPICAL. PROVIDE PRESSURE TREATED SILL PLATE IF FINISH GRADE IS WITHIN 8" TYPICAL.

11. FRAMING:
ALL NEW WINDOW FRAME PARTITIONS TO BE 2X4 @ 16" O.C. & ALL NEW EXTERIOR FRAME PARTITIONS TO BE 2X6 @ 16" O.C. UNLESS OTHERWISE NOTED. VERIFY W/ STRUCTURAL DRAWINGS. EXISTING EXTERIOR WALLS ARE 2X4 STUDS @ 16" O.C. AND ARE TO REMAIN. NEW INTERMEDIATE FRAMING AT EXTERIOR WOOD WALLS REQUIRES HEADERS INSULATED WITH A MIN. R-10 INSULATION.

12. VENTILATION:
VENT ALL BATHROOM FANS, LAUNDRY FANS, RANGE HOODS AND DRYERS TO OUTSIDE ATMOSPHERE. BATHROOM/UTILITY ROOM FANS SHALL BE CAPABLE OF 5 AIR CHANGES PER HOUR AND SHALL BE VENTED DIRECTLY TO THE OUTSIDE THROUGH SMOOTH, RIGID, NON-CORROSIVE METAL, 24 GA. DUCTWORK. FLEX DUCTING IS NOT ALLOWED. WSEC R402.4.1.2 REQUIRES THE DWELLING UNIT TO BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 5 AIR CHANGES PER HOUR. TESTING MUST BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2. NEW CONSTRUCTION MAY BE ISOLATED FROM EXISTING STRUCTURE FOR TESTING.

13. FLUES:
FLUES TO BE LOCATED MINIMUM 2" FROM ALL COMBUSTIBLE MATERIALS.

14. DOWNSPOUTS:
LOCATE NEW DOWNSPOUTS AS SHOWN ON ROOF PLAN, FLOOR PLANS & ELEVATIONS.

15. OTHER DOCUMENTATION:
REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, AND/OR LANDSCAPE DRAWINGS FOR ADDITIONAL DRAWINGS, NOTES, SCHEDULES, AND SYMBOLS.

16. PROTECTION:
PROTECT ALL EXISTING FINISHES AND SURFACES. ANY DAMAGE WILL BE REPAIRED WITHOUT ADDITIONAL COST TO OWNER.

17. PERMITS:
SEPARATE ELECTRICAL, MECHANICAL, AND PLUMBING PERMITS ARE REQUIRED IN ADDITION TO THE BASIC BUILDING PERMIT.

18. ROOFING:
PROVIDE NEW ROOFING TO MATCH EXISTING.

19. EXHAUST DUCTS:
PROVIDE BACKDRAFT DAMPERS AT ALL EXHAUST DUCTS. PROVIDE COMBUSTION AIR OPENINGS INTO FURNACE ROOM PER UMC 703.

20. APPLIANCES:
CLEARANCES OF UL LISTED APPLIANCES FROM COMBUSTIBLE MATERIALS SHALL BE AS SPECIFIED IN UL LISTING.

21. WATER FLOW:
SHOWER SHALL BE EQUIPPED WITH FLOW CONTROL DEVICE TO LIMIT WATER FLOW TO 2.5 GALLONS PER MINUTE.

22. SMOKE DETECTORS:
SMOKE & CARBON MONOXIDE THROUGHOUT NEW CONSTRUCTION. TO BE MONITORED PER FIRE DEPARTMENT REQUIREMENTS.

23. FIREBLOCKING:
FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAMED CONSTRUCTION PER 2018 IRC SECTION R302.1.1, SPECIFICALLY 1) IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, 2) AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES, 3) IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT T.O. & B.O. RUN, 4) AT OPENINGS AROUND VENTS, PIPES, ETC. AT CEILING AND FLOOR LEVEL.

PROJECT DATA

PROJECT ADDRESS: 2423 60th Ave SE
MERCER ISLAND 98040

PROPERTY TAX ID NUMBER: 409950-0035

SCOPE OF WORK: CONSTRUCTION OF NEW TWO-STORY SINGLE FAMILY RESIDENCE WITH ATTACHED GARAGE

ZONING: R-8.4

CONSTRUCTION TYPE: TYPE V-B

SEISMIC ZONE: 3

NUMBER OF STORIES: 2 STORIES

FIRE PROTECTION: NFPA 130 FIRE SPRINKLER SYSTEM

FIRE MONITORING: NFPA 72 CHAPTER 29 MONITORED FIRE ALARM SYSTEM REQUIRED

BUILDING HEIGHT: MAX. 30 FT ABOVE AVERAGE BUILDING ELEV.

GROSS FLOOR AREA: 5,000 SF OR 40% LOT AREA, WHICHEVER IS LESS

GROSS LOT AREA: 10,143 SF

NET LOT AREA: 8,075 SF

SETBACKS: FRONT: 20', REAR: 25', SIDE: 15' TOTAL, MIN. 5'

PROJECT TEAM

OWNER:
MARY SMERSH
7930 SE 34TH SE #312
MERCER ISLAND, WA 98040
PHONE: 206.406.2517
EMAIL: SMERSH007@COMCAST.NET

CONTRACTOR:
SMERSH CONSTRUCTION
PO BOX 1246
MERCER ISLAND, WA 98040
PHONE: 206.236.2020
CONTACT: JIM SMERSH

ARCHITECT:
STURMAN ARCHITECTS, INC.
9 - 103RD AVE NE SUITE 203
BELLEVUE, WA 98004
PHONE: 425.451.7003
CONTACT: BRAD STURMAN

GEOTECHNICAL ENGINEER:
GEOTECH CONSULTANTS, INC.
2401 10TH AVE EAST
SEATTLE, WA 98102
PHONE: 425.280.1116
CONTACT: MARC MCGINNIS

CIVIL ENGINEER:
NICK BOSSOFF ENGINEERING, INC.
191 NE TARU LANE
STEVENSON, WA 98648
PHONE: 425.881.5904
CONTACT: NICK BOSSOFF

OG ENGINEERING:
OWEN GOULD
SEATTLE, WA
PHONE: 206.290.4608
CONTACT: OWEN GOULD

LEGAL DESCRIPTION

LAKE VIEW PLACE EAST SEATTLE LOT A OF MERCER ISLAND SHORT PLAT NO M18 89-08-18 RECORDING NO 8911229007 SD SHORT PLAT DAF - LOTS 7 & 16 AND THE NORTH 7.5 FT OF LOTS 8 AND 15
Plat Block: 1 - Plat Lot: POR

DUTY OF COOPERATION

RELEASE AND ACCEPTANCE OF THESE DOCUMENTS INDICATES COOPERATION AMONG THE OWNER, CONTRACTOR, AND STURMAN ARCHITECTS. ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED IN THE USE OF THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO STURMAN ARCHITECTS. FAILURE TO DO SO WILL RELIEVE STURMAN ARCHITECTS FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES.

ANY DEVIATION FROM THESE DOCUMENTS WITHOUT THE CONSENT OF STURMAN ARCHITECTS IS UNAUTHORIZED. FAILURE TO OBSERVE THESE PROCEDURES SHALL RELIEVE STURMAN ARCHITECTS OF RESPONSIBILITY FOR ALL CONSEQUENCES ARISING FROM SUCH ACTIONS.

SHEET INDEX

- A1.0 COVER SHEET - GENERAL & ENERGY NOTES, LEGAL, PROJECT DATA, CUT-FILL, CALC. INDEX, SITE PLAN
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- A4.1 BUILDING SECTIONS
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LOT COVERAGE & HARDSCAPE

LOT COVERAGE	GROSS LOT S.F.	NET LOT S.F.	EXISTING DRIVEWAY	MAIN ROOF STRUCT	DRIVES/ PARKING	TOTAL LOT COVERAGE	% LOT COVERAGE
EXISTING LOT COVERAGE	10,143 SF	8,076 SF	817 SF	0 SF	0 SF	0 SF	0 %
NET GAINLOSS LOT COVERAGE			-817 SF	+2795 SF	+410 SF	+3204 SF	+39.7 %
PROPOSED LOT COVERAGE			0 SF	2795 SF	410 SF	3204 SF	39.7 %
% ALLOWED LOT COVERAGE						3230 SF ALLOWABLE	40 %

HARDSCAPE	GROSS LOT S.F.	NET LOT S.F.	(E) ROCKERIES	RETAINING WALLS	FRONT WALK	WOOD DECK	TOTAL HARDSCAPE	% HARDSCAPE
EXISTING HARDSCAPE	10,143 SF	8,076 SF	232 SF	0 SF	0 SF	0 SF	232 SF	2.9 %
NET GAINLOSS HARDSCAPE			+0 SF	+33 SF	+188 SF	+278 SF	+479 SF	+5.9 %
PROPOSED HARDSCAPE			232 SF	33 SF	188 SF	278 SF	711 SF	8.8 %
% ALLOWED HARDSCAPE							755 SF ALLOWABLE	8.8 %

BUILDING AREA

	MAIN FLOOR	UPPER FLOOR	HEATED SUB-TOTAL	GARAGE/ WORKSHOP	GRAND TOTAL	UNHEATED DECKS
PROPOSED HOUSE:	1791 SF	1382 SF	3173 SF	568 SF	3741 SF	622 SF

2018 WSEC CREDITS

PROJECT IS A NEW RESIDENCE GREATER THAN 1,500 SQ FT AND LESS THAN 5,000 SQ FT CONDITIONED AREA, AND SO IS A MEDIUM DWELLING UNIT REQUIRING 6 CREDITS

OPTION	CREDITS	DESCRIPTION
2	1.0	-HEAT PUMP EFFICIENCY (AIR COOLED) 14.0 SEER, 11 HSPF
1.3	0.5	-VERTICAL FENESTRATION U = .28, FLOOR-R-38 -R-10 RIGID INSULATION ENTIRE PERIMETER AND UNDER ENTIRE SLAB IN HEATED SPACE
2.3	1.5	-REDUCE TESTED AIR LEAKAGE TO 1.5 AIR CHANGES PER HOUR MAX. AT 50 PASCAPALS -WHOLE HOUSE VENTILATION REQS MET W/ HEAT RECOVERY SYSTEM W/ MIN. EFFICIENCY OF 0.75, 125 CFM
3.5	1.5	-AIR SOURCE, CENTRALLY DUCTED HEAT PUMP W/ MIN. HSPF OF 11.0
4.2	1.0	-HVAC EQUIP. & AND ITS DUCT SYSTEM INSTALLATION SHALL COMPLY W/ R403.3.7. ALL EQUIP. & DUCTS SHALL BE IN CONDITIONED SPACE, W/ CONTINUOUS AIR BARRIER & BUILDING THERMAL ENVELOPE.
5.2	0.5	-ENERGY STAR RATED GAS OR PROPANE WATER HEATER W/ A MIN. UEF OF 0.80
TOTAL CREDITS		
6		

GROSS FLOOR AREA

	NEW FLOOR AREA
MAIN FLOOR	1791 SF
SECOND FLOOR	1382 SF
GARAGE	568 SF
GROSS FLOOR AREA	3741 SF
GROSS LOT AREA	10,143 SF
ALLOWED MAX. % GFA COVERAGE	40.0 %
ALLOWED GROSS FLOOR AREA	4057.2 SF
12" CEILING OF LIVING ROOM	+47 SF
12" CEILING OF REC ROOM	+22.5 SF
COVERED DECK	+6.5 SF
TOTAL GFA COVERAGE	3817 SF
PROPOSED % GFA COVERAGE	37.6 %

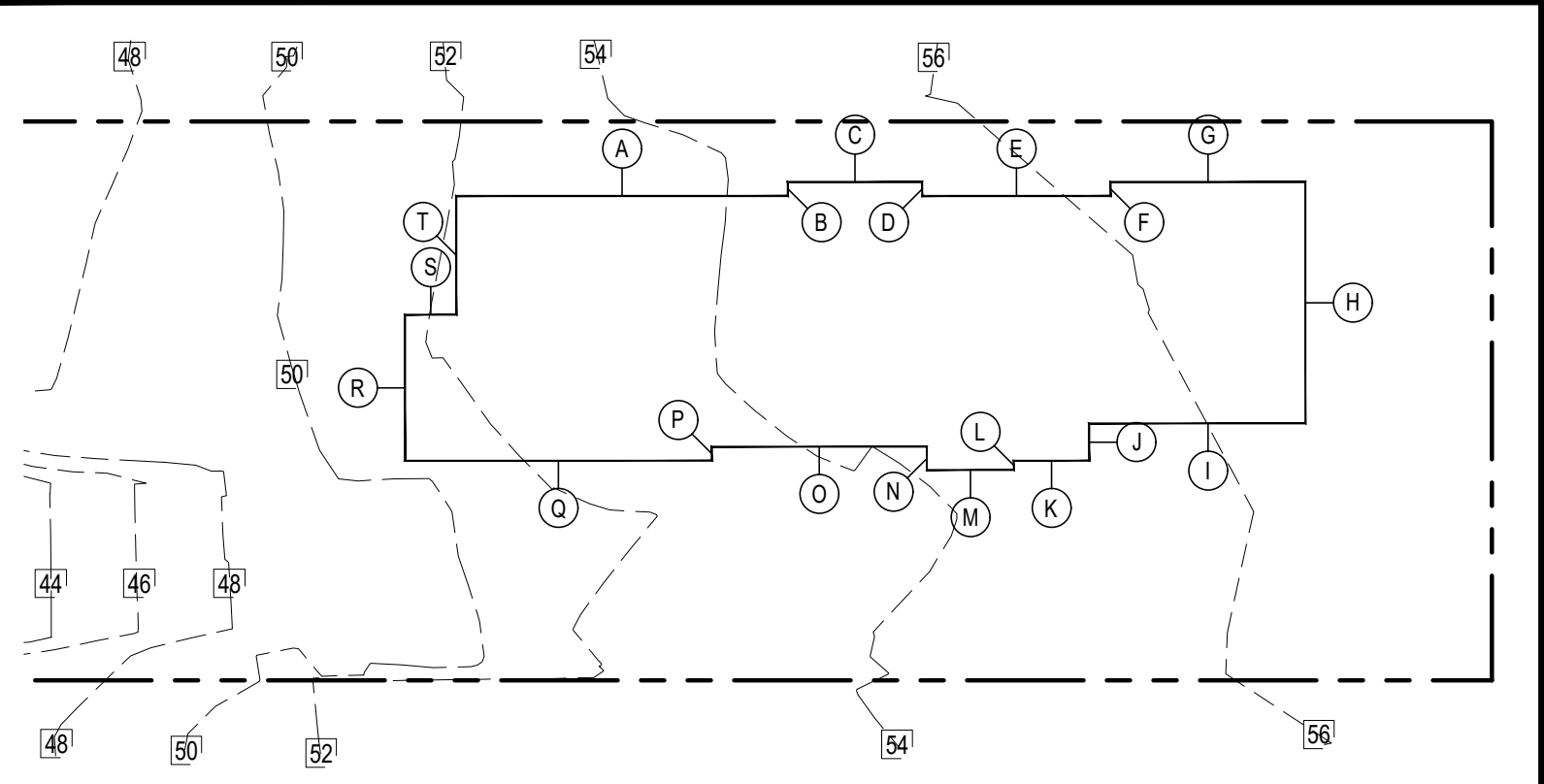
VICINITY MAP



AVERAGE BUILDING ELEV.

AVERAGE BUILDING ELEVATION			
	Wall Length	Elevation Pt.	Wall Length X Elev. Pt.
A	35.58	53.5	1903.53
B	1.5	54.5	81.75
C	14.417	55.0	792.935
D	1.5	55.5	83.25
E	20.21	56.0	1131.76
F	1.5	56.0	84
G	20.92	56.0	1171.52
H	25.92	56.5	1464.48
I	23.21	56.0	1299.76
J	4	55.0	220
K	8.08	55.0	444.4
L	1	55.0	55
M	9.33	54.5	508.485
N	2.5	54.0	135
O	23.08	54.0	1246.32
P	1.5	53.0	79.5
Q	32.92	52.0	1711.84
R	15.67	51.0	799.17
S	5.5	52.0	286
T	12.75	52.0	663
261.087			1086.5
14161.7			14161.7
14161.7	54.24	Average Building Elevation	
261.087			

ABE KEY PLAN



ENERGY NOTES

CLIMATIC ZONE:	ZONE #4C - MARINE	INSULATION VALUES:	WALLS:	R-21
THERMAL STANDARDS FOR OPENINGS:	UNLIMITED OPTION	PRESCRIPTIVE METHOD	FLAT ATTICS/CEILING:	R-49
CODE:	2018 W.S.E.C. & 2018 IRC, IWAC 5-1-1R		VAULTED CEILING:	R-38
SPACE HEAT TYPE:	NATURAL GAS FORCED AIR SYSTEM		FLOORS (OVER UNHEATED SPACES):	R-38
			SLAB-ON-GRADE:	R-10

PER WSEC R401.3 A CERTIFICATE IS REQUIRED TO BE POSTED WITHIN 3 FT OF THE ELECTRICAL PANEL. IT MUST INCLUDE THE FOLLOW: PREDOMINANT R-VALUES, U-VALUES OF FENESTRATION, RESULTS FROM DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING, AND EFFICIENCIES OF HEATING/COOLING/WATER HEATING EQUIPMENT.

AIR INFILTRATION:
MANUFACTURED DOORS/WINDOWS: CONFORM TO SECTION R402.4.3 OF THE WASHINGTON STATE ENERGY CODE

EXTERIOR JOINTS/OPENINGS: SEAL, CAULK, GASKET OR WEATHERSTRIP TO LIMIT AIR LEAKAGE AT EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES. OPENINGS BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, OPENINGS AT PENETRATIONS OF UTILITY SERVICES AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE

MOISTURE CONTROL:
WALLS: VAPOR RETARDER BONDED TO BATT INSULATION. INSTALL WITH STAPLES NOT MORE THAN 8 INCHES ON CENTER AND AND WITH A GAP BETWEEN AND OVER FRAMING NOT GREATER THAN 1/16 OF AN INCH. OR, VAPOR RETARDER OF ONE PERM CUP RATING (4 MIL POLYETHYLENE)

ATTICS/CEILING: VAPOR RETARDER OF ONE PERM CUP RATING (4 MIL POLYETHYLENE). INSTALL CONTINUOUSLY

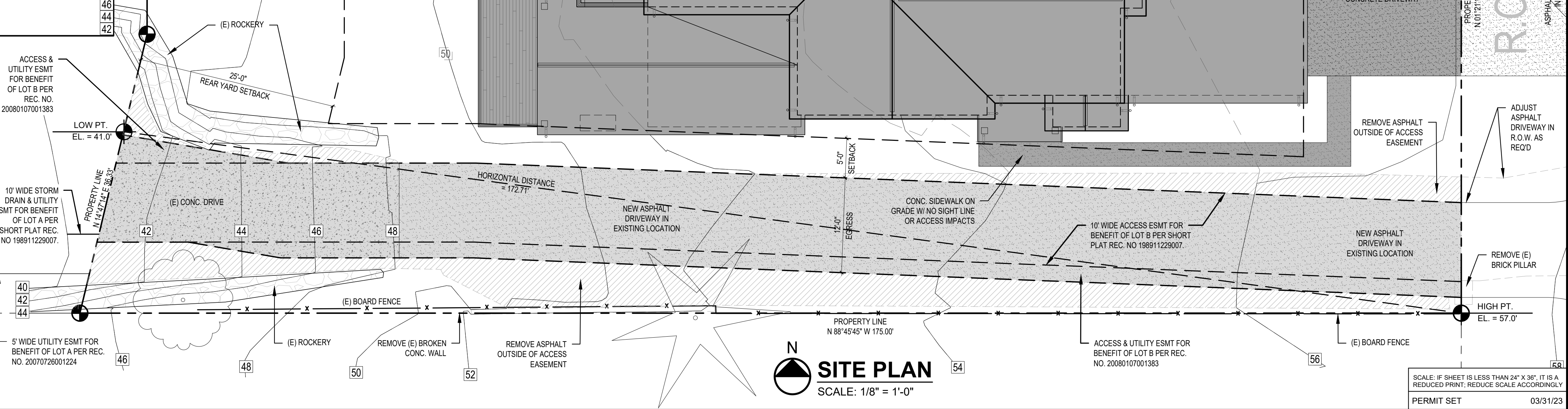
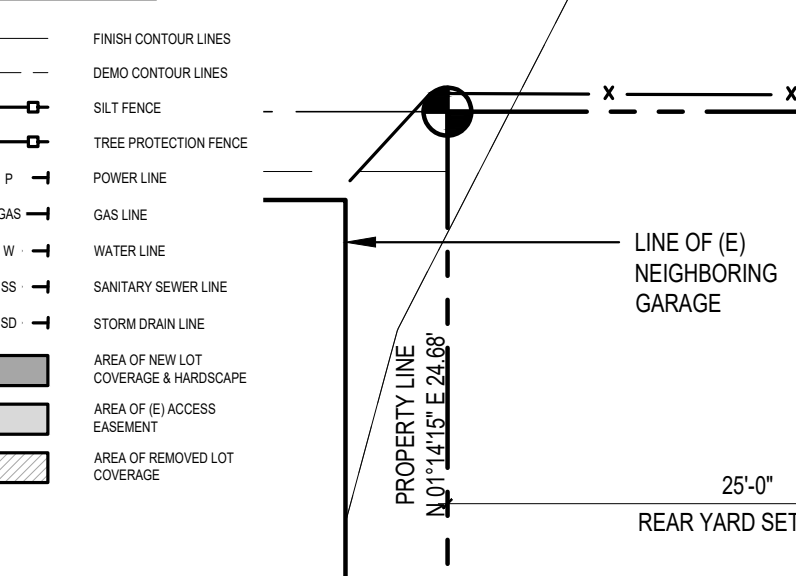
CRAWL SPACE: 6 MIL POLYETHYLENE

VENTILATION:
ATTICS WITH LOOSE FILL: N/A. Baffle vent openings to deflect air above insulation surface enclosed joist or rafter spaces. PROVIDE MINIMUM OF ONE INCH CLEAR VENTED AIR SPACE ABOVE INSULATION. TAPER OR COMPRESS INSULATION AT PERIMETER TO INSURE PROPER VENTILATION, MAINTAINING MINIMUM OF R-38.

HEATING & COOLING:
GAS FURNACE & AIR SOURCE HEAT PUMP

TEMP. CONTROL:
FOR HEATING AND COOLING. THERMOSTAT SHALL BE CAPABLE OF BEING SET FROM 55-85 DEGREES FAHRENHEIT AND OF OPERATING THE HEATING/COOLING SYSTEM IN SEQUENCE. THERMOSTAT TO BE AUTOMATIC DAY/NIGHT SETBACK TYPE.

LEGEND:



WHOLE HOUSE VENTILATION

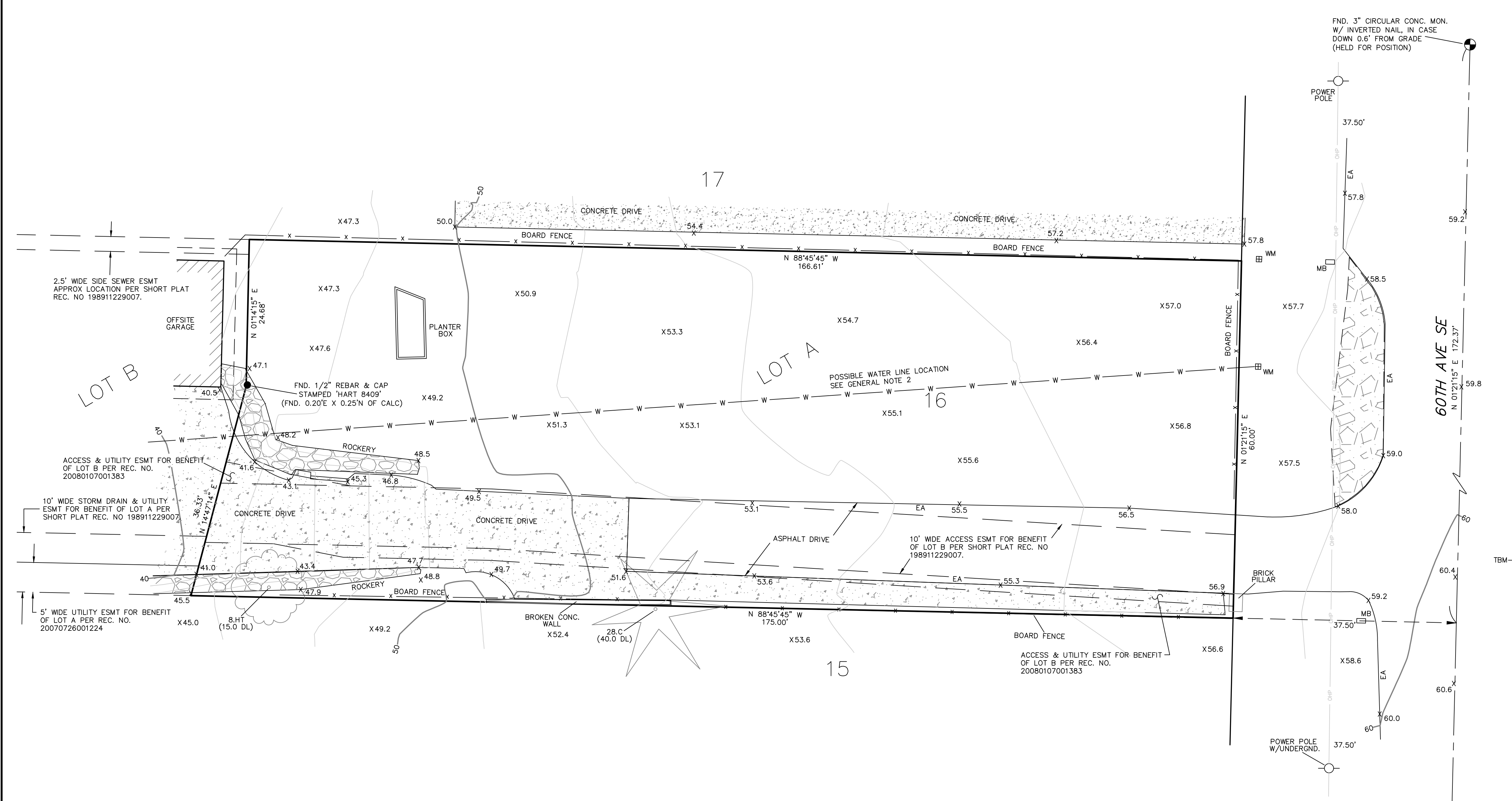
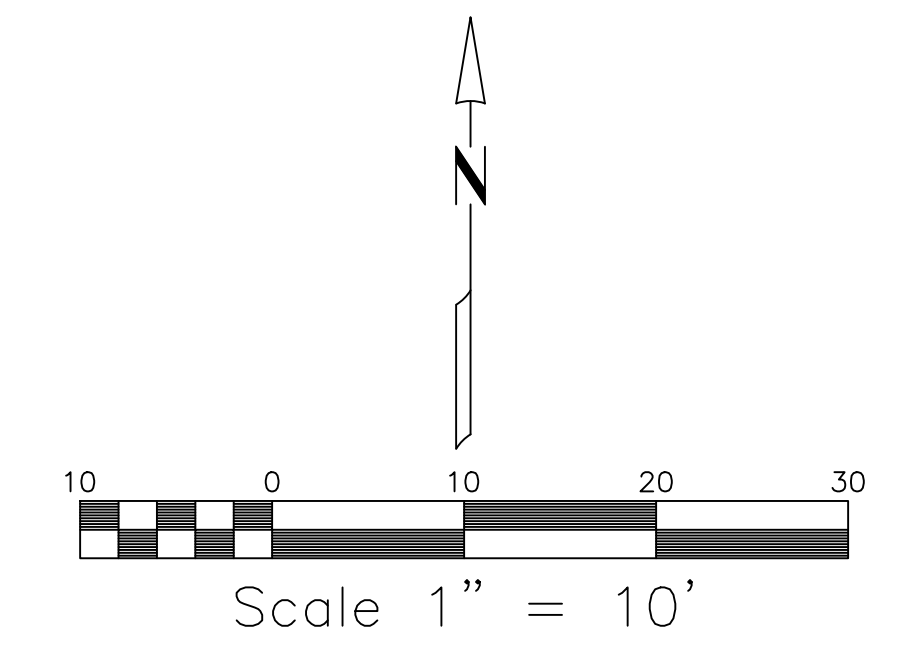
- a. WHOLE HOUSE VENTILATION SHALL BE PROVIDED BY ERHV/W INTEGRAL FANS, PROVIDING MIN. 62 CFM RUNNING CONTINUOUSLY PER 2018 IRC TABLE M1505.4.2 (182). FAN SHALL BE LESS THAN 35 WATT PER CFM AND RUN CONTINUOUSLY. AND HAVE A SONE RATING OF LESS THAN 1.0. VENTILATION SHALL BE ABLE TO OPERATE INDEPENDENTLY OF HEATING SYSTEM.
- b. SYSTEM SHALL HAVE A 5'Ø SMOOTH FRESH AIR DUCT W/ LOUVER & SCREEN CONNECTED TO THE RETURN AIR STREAM 4' UPSTREAM OF THE AIR HANDLER AND INSULATED W/ R-4 MIN IN HEATED AREAS. ALL SUPPLY DUCTS IN CONDITIONED SPACE SHALL BE INSULATED TO MIN. R-4.
- c. SHALL HAVE A FILTER WITH A MERV OF AT LEAST 6 INSTALLED IN AN EASILY ACCESSIBLE LOCATION.
- d. FRESH AIR VENT SHALL BE LOCATED AWAY FROM SOURCES OF ODORS OR FUMES, MIN 10' FROM PLUMBING OR APPLIANCE VENTS, AWAY FROM ROOMS W/ FUEL BURNING APPLIANCES, AND OUT OF ATTICS, CRAWL SPACES, AND GARAGES.

BEDROOMS	3
HEATED SQUARE FOOTAGE	3173 SF
CFM = 0.01(3173 SF) + 7.5(3+1 BEDROOMS)	
AIRFLOW (CFM)	62 CFM MIN.

STURMAN ARCHITECTS
 9 - 103RD AVE NE SUITE 203
 BELLEVUE, WA 98004
 TEL: 425-451-7003
 REGISTERED ARCHITECT
 BRADLEY J. STURMAN
 STATE OF WASHINGTON

M. SMERSH RESIDENCE PERMIT SET
 2423 60TH AVE SE
 MERCER ISLAND, WA 98040

GENERAL NOTES
SITE PLAN
 REVISIONS:
 DRAWN BY: KE
 CHECKED BY: BUS
 SHEET
A1.0
 SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY
 PERMIT SET 03/31/23 PLOT DATE: 3/30/2023



- MERIDIAN**
ASSUMED- BASIS OF BEARING ROAD CENTERLINE 60TH AVE SE
- LEGEND:**
- FOUND MONUMENT AS DESCRIBED ON MAP
 - FOUND EXISTING PROP. COR. AS SHOWN ON MAP
 - ▲ SET TEMPORARY BENCHMARK AS SHOWN ON MAP
 - C CEDAR TREE
 - DL DRIP LINE
 - EA EDGE OF ASPHALT
 - HT HAWTHORNE TREE
 - MB MAIL BOX
 - MON MONUMENT
 - TBM TEMPORARY BENCHMARK
 - WM WATER METER
- ROCKERY HATCH BUILDING HATCH
 CONCRETE HATCH GRAVEL HATCH
 OVERHEAD POWER LINE
 SPOT ELEVATION
 CONIFER TREE DECIDUOUS TREE

BENCHMARK & DATUM INFO

VERTICAL DATUM: NAVD88
 ORIGINAL BM: WSDOT BM NO. ROANOKE; FND. 3"DOMED BRASS DISC SURFACE MON. STAMPED "WSDOT SURVEY MON 2005-ROANOKE" SET ON THE EAST SIDE OF A BRIDGE OVER I-90 ON 72ND AVE SE.
 ELEV. = 155.66
 TBM - A: SET MAGNETIC NAIL & FLAGGING IN THE ASPHALT IN FRONT OF SITE AS SHOWN ON MAP.
 ELEV. = 60.53

CONTOUR INTERVAL = 2'

LEGAL DESCRIPTION
 (PER QUIT CLAIM DEED NO. 20130430000491; RECORDS OF KING CO.)
 LOT A OF MERCER ISLAND SHORT PLAT NO. MI 89-08-18, RECORDED UNDER KING COUNTY RECORDING NO. 8911229007.

- GENERAL NOTES**
1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.
 2. UNDERGROUND UTILITIES WERE LOCATED BASED ON THE SURFACE EVIDENCE OF UTILITIES (I.E. PAINT MARKS, SAW CUTS IN PAVEMENT, COVERS, LIDS ETC.) AND FROM CITY OF MERCER ISLAND GIS UTILITY MAP. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3. TREE SIZES WERE LOCATED & SPECIES DETERMINED TO THE BEST OF OUR ABILITY. HOWEVER, THE SURVEYORS DOES NOT WARRANT THE ACCURACY OF SIZE & SPECIES SHOWN HEREON. ANY TREES CONSIDERED TO BE CRITICAL SHOULD BE VERIFIED BY A TRAINED ARBORIST.
 4. EASEMENTS SHOWN HEREON FROM CHICAGO TITLE COMMITMENT NUMBER 0225872-ETU DATED OCTOBER 29, 2021.
 5. NO PROPERTY CORNERS WERE SET IN CONJUNCTION WITH THIS SURVEY.
 6. THE BOUNDARY FOR THIS SURVEY WAS COMPUTED USING THE PLAT OF LAKE VIEW PLACE EAST, THE PLAT OF CENTRAL ADD, KING COUNTY RECORDS OF SURVEY NO'S 2016092090019 & 199203319011.
 7. THE PURPOSE OF THIS TOPOGRAPHY SURVEY IS TO AID IN THE DESIGN PHASE OF CONSTRUCTION.
 8. THE CONTOURS SHOWN ARE FROM DIRECT FIELD OBSERVATIONS TO A VERTICAL AND HORIZONTAL POSITIONAL ACCURACY OF ONE-HALF OF THE STATED CONTOUR INTERVAL.
 9. UTILITIES SHOWN HEREON FROM FIELD DIRECT MEASUREMENTS OF SURFACE EVIDENCE (STRUCTURES AND PIPE INVERTS) AT THE TIME OF VISIT.
 10. MAP SYMBOLS ARE NOT TO SCALE.

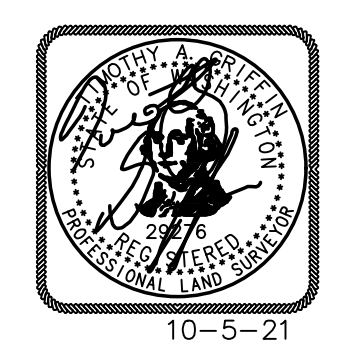
EASEMENT NOTES

EASEMENT SCHEDULE B ITEM NUMBERS FROM CHICAGO TITLE COMMITMENT NUMBER 0225872-ETU DATED OCTOBER 29, 2021.

3. SUBJECT TO A SIDE SEWER EASEMENT RECORDING NUMBER 4655669 AFFECTS AN UNDISCLOSED PORTION OF SAID LAND ALONG THE LINE AS CONSTRUCTED.
4. SUBJECT TO EASEMENTS AS SHOWN ON SHORT PLAT NO. MI 89-08-18, REC. NO. 198911229007.
5. SUBJECT TO AN EASEMENT FOR UTILITIES OVER LOT B AS SHOWN HEREON PER RECORDING NO. 20070726001224.
7. SUBJECT TO AN EASEMENT FOR ACCESS AND UTILITIES OVER THE SUBJECT PARCEL PER RECORDING NO. 20080107001383.

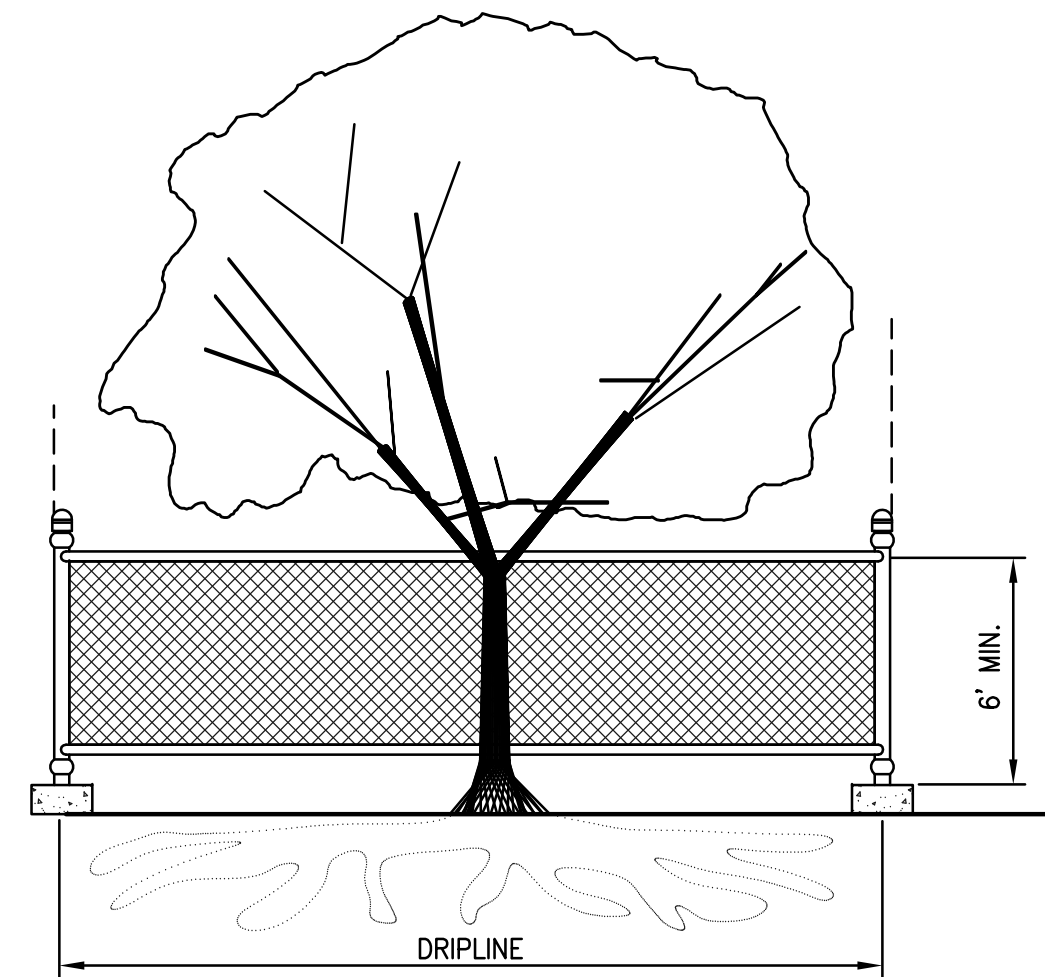
THE ACCESS AND UTILITY EASEMENT UNDER RECORDING NUMBER 20070727001487 HAS BEEN TERMINATED BY THE AGREEMENT TERMINATING EASEMENT FOR INGRESS, EGRESS AND UTILITIES PER RECORDING NO. 20221103000596.

PARCEL NUMBER: 409950-0035
 SITE ADDRESS: 2421 60TH AVE SE
 NE1/4, NE1/4, SEC. 11, T. 24 N., R. 4 E., W.M.
 CITY OF MERCER ISLAND, WASHINGTON



REV. REMOVE ESMT 11/22/22 TG
 REV. ADD ESMTS 1/12/22 TG

TOPOGRAPHIC SURVEY for MARY SMERSH		
2421 60TH AVE SE MERCER ISLAND, WASHINGTON 98040		
Tye Surveyors PROFESSIONAL LAND SURVEYORS 10007 GREENWOOD AV. N. SEATTLE, WA. 98133 206-525-3660		
DRAWN BY: AA	DATE: 10-5-21	JOB NO.: 21199
CHKD BY: TG	SCALE: 1" = 10'	SHEET: 1 OF 1



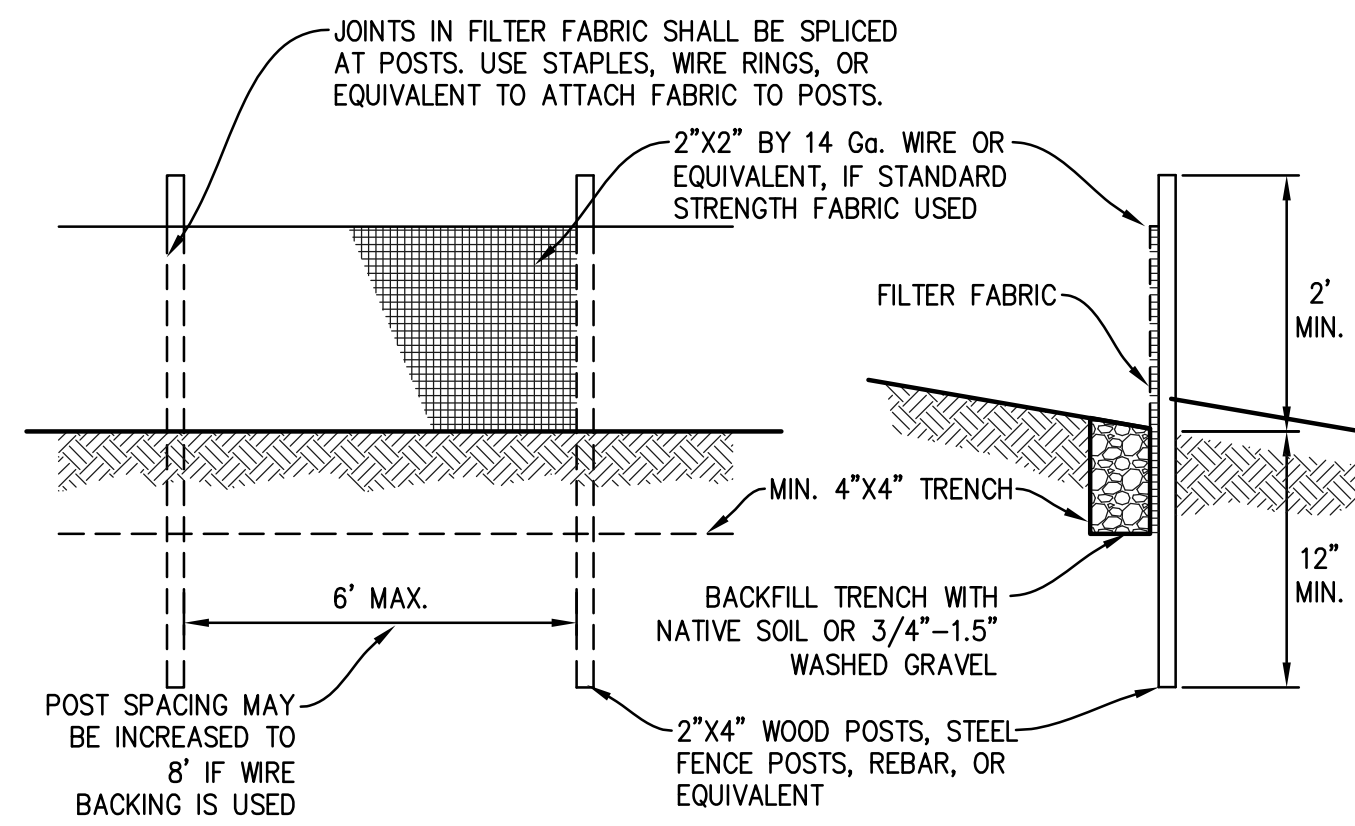
TREE PROTECTION DURING CONSTRUCTION

- 6-FT. HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
- FOR ROOTS OVER 1-IN DIA. THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
- WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.

TREE PROTECTION

SCALE: NTS

1



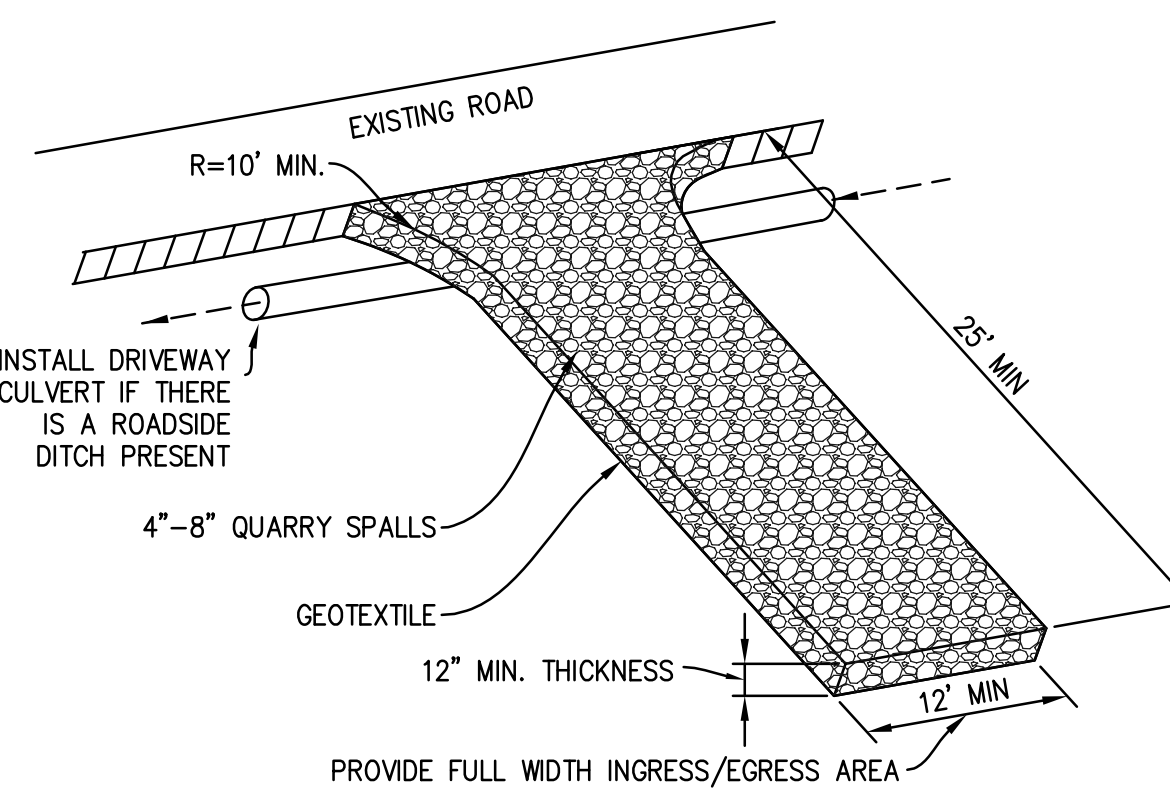
MAINTENANCE STANDARDS

- ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGN OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCUR, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
- SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
- IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

SILT FENCE

SCALE: NTS

2



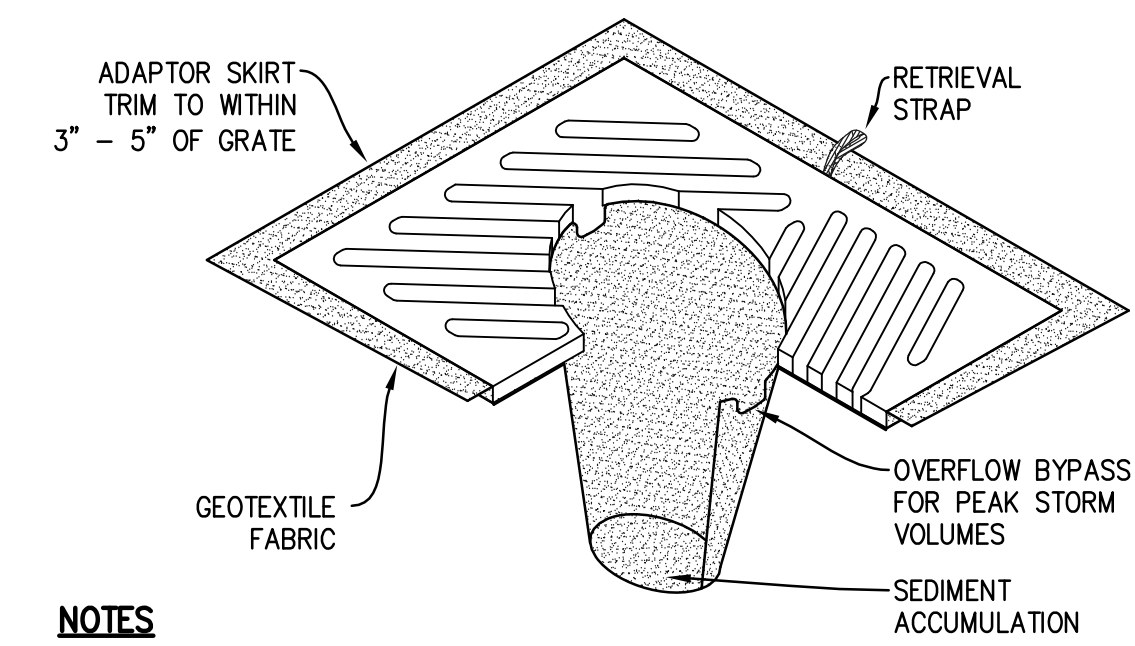
MAINTENANCE STANDARDS

- QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
- IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
- ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREET, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
- ANY ROCK SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING (SECTION 5.4.1) SHALL BE INSTALLED TO CONTROL TRAFFIC.

ROCK CONSTRUCTION ENTRANCE

SCALE: NTS

3



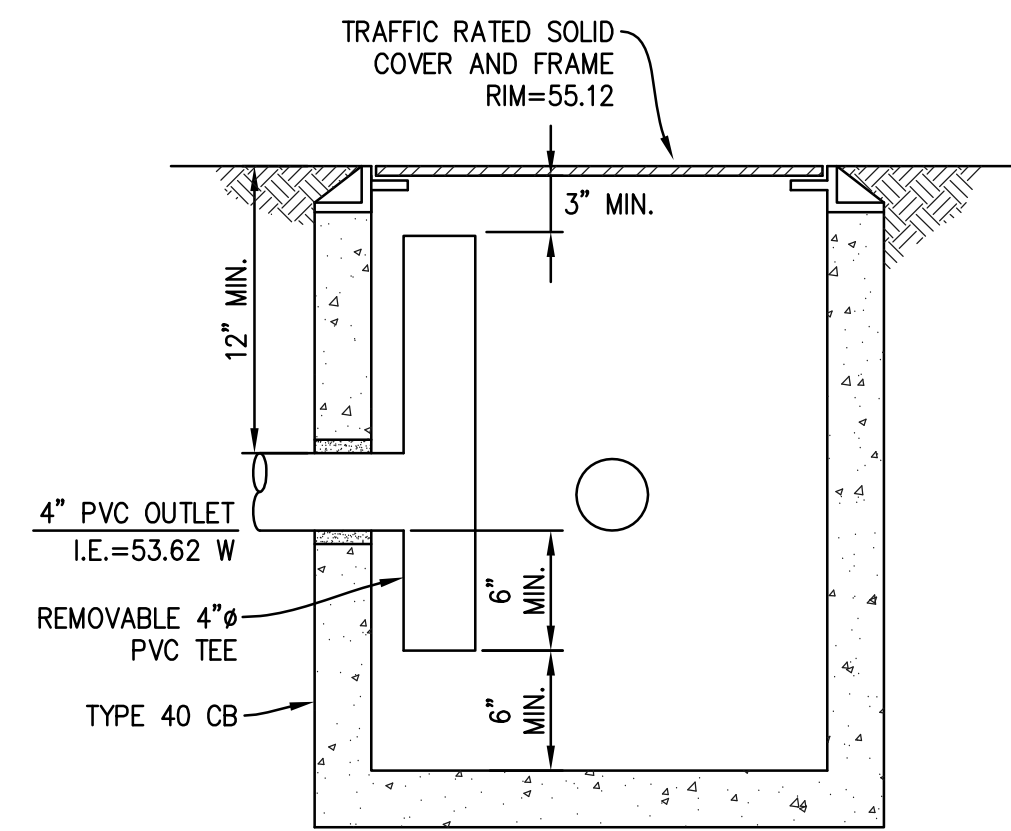
NOTES

- INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
- SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
- SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

CB INSERT

SCALE: NTS

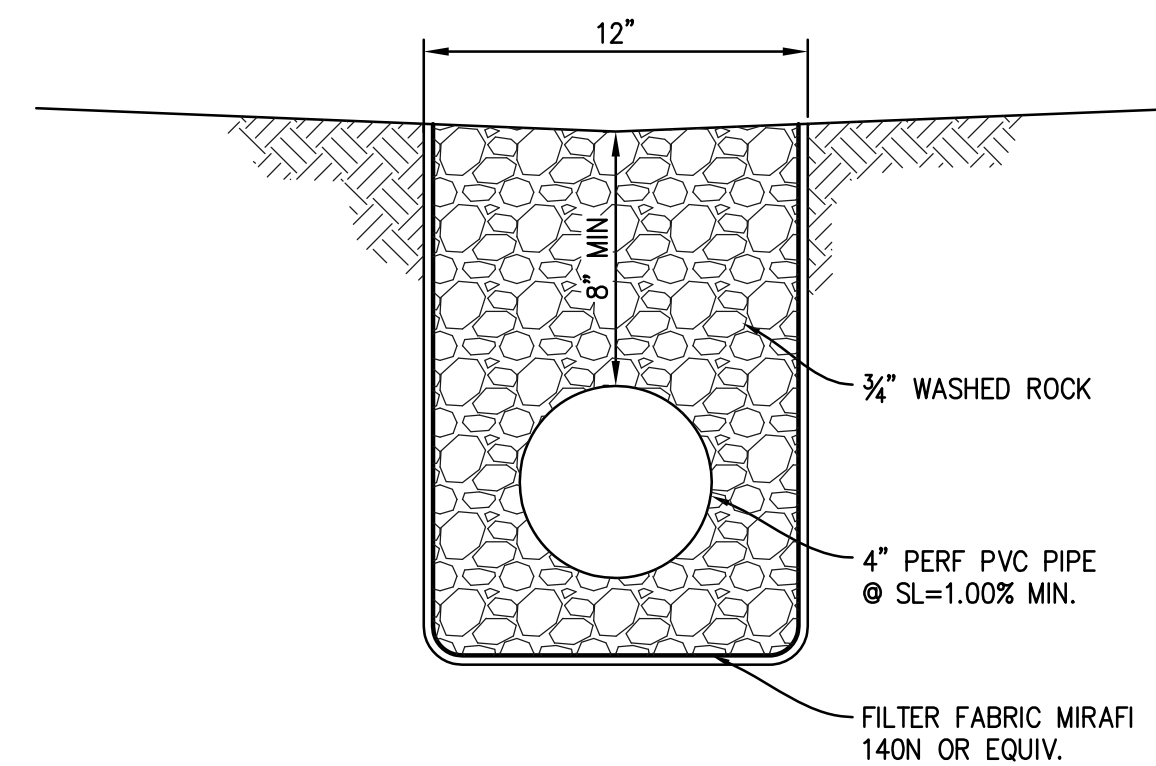
4



OIL SEPARATOR CB

SCALE: NTS

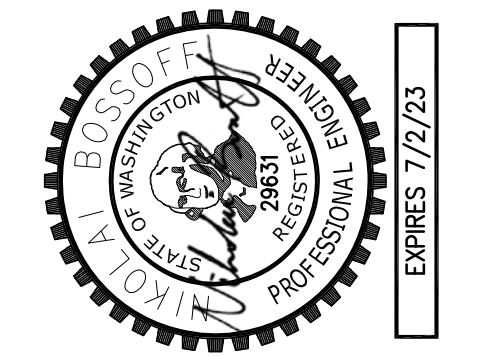
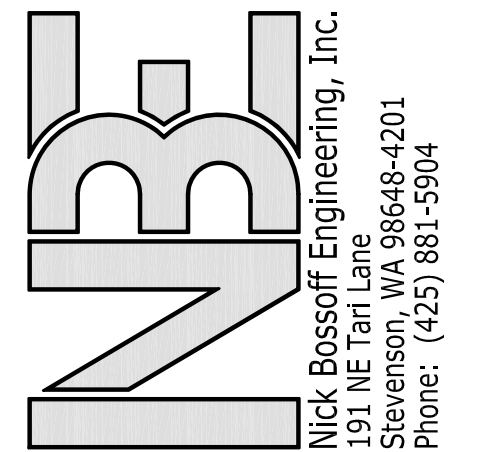
6



FRENCH DRAIN

SCALE: NTS

7



NO.	DATE	REVISION
1	08/31/22	PERMIT SUBMITTAL
2	03/27/23	CITY INTAKE COMMENTS

N. BOSSOFF, P.E.	PROJECT MANAGER:
NB	DESIGNED:
TKB	DRAWN:
SARC-2203	JOB NUMBER:
SARC-2203pln.dwg	FILE NAME:

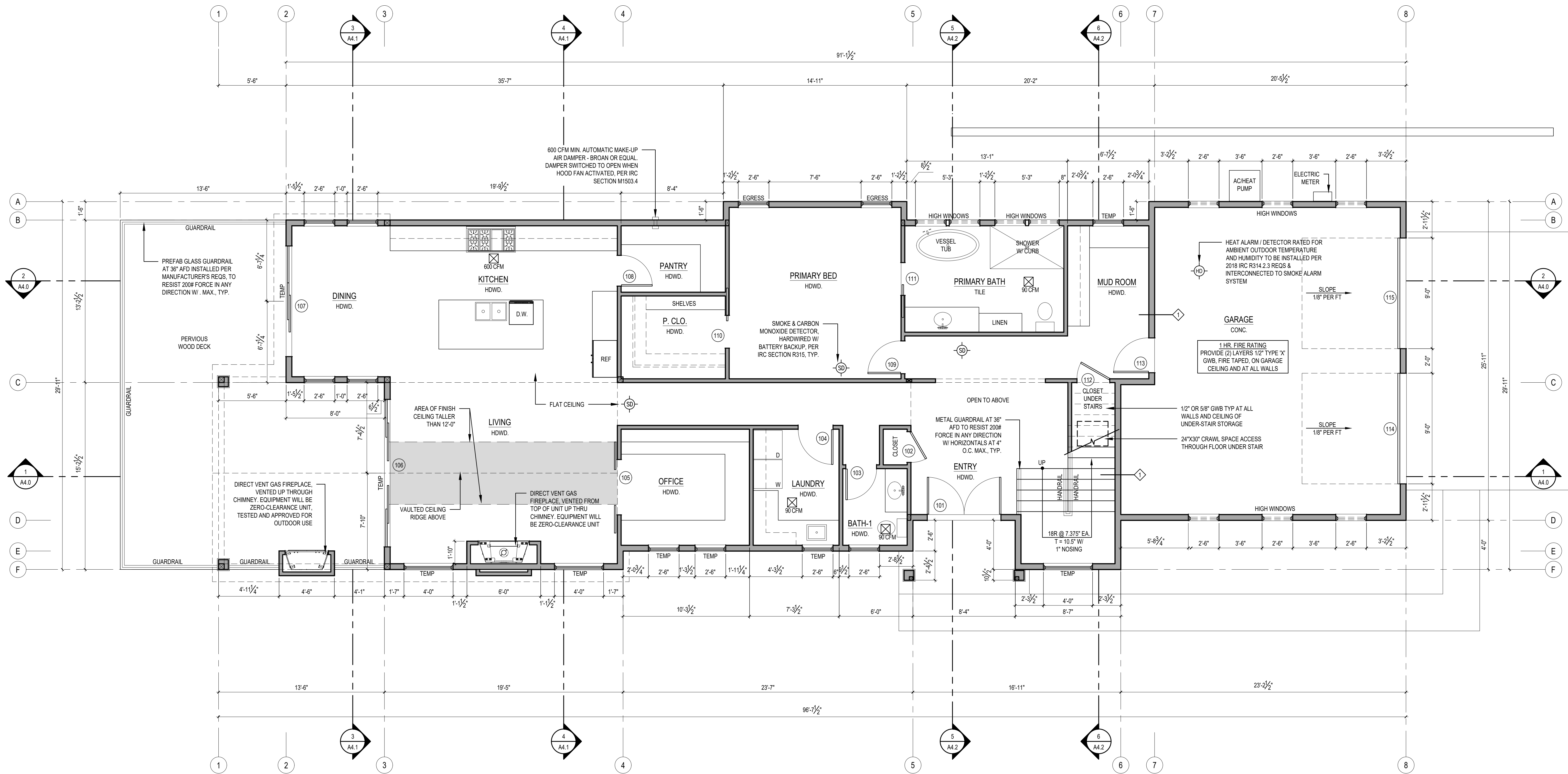
M. SMERSH RESIDENCE
2423 60TH AVE SE

WASHINGTON

MERCER ISLAND

TITLE:
DETAILS

SHEET:
C-3

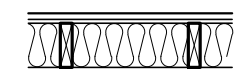
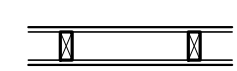
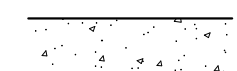
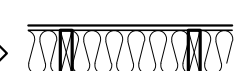


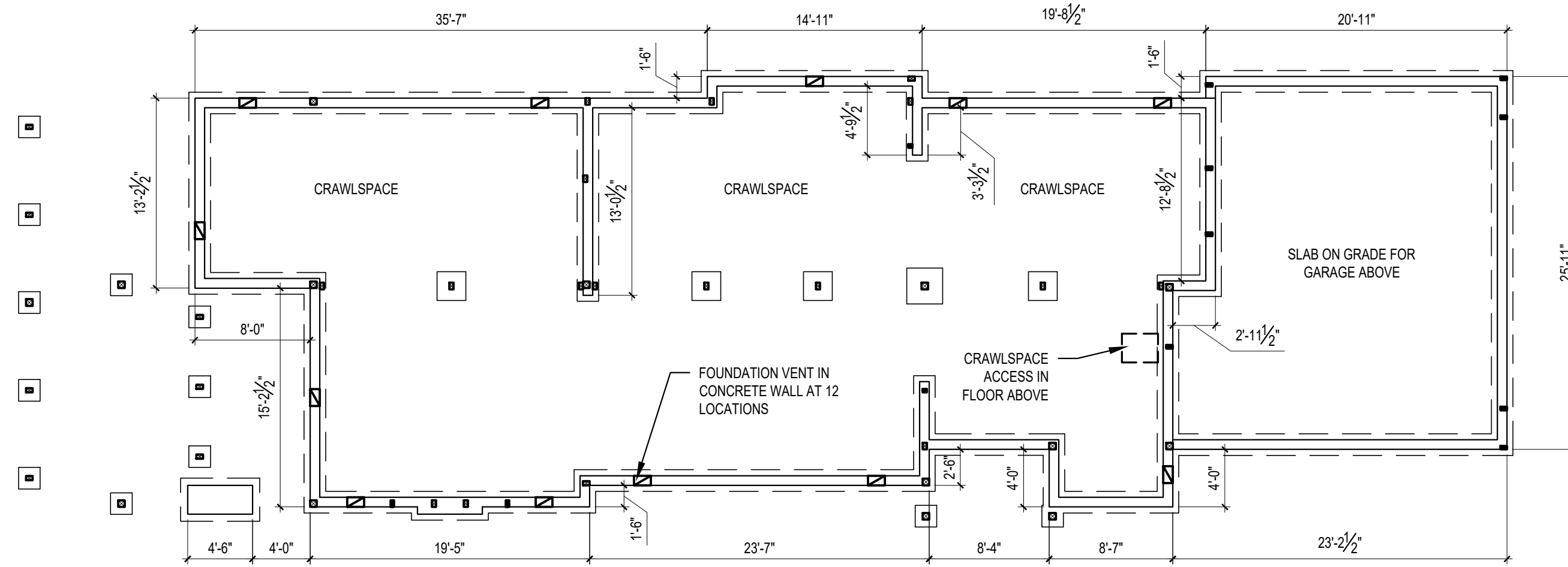
1 MAIN FLOOR PLAN
 SCALE: 1/4" = 1'-0"



WALL PARTITION TYPES:

N.T.S. (SEE STRUCTURAL SHEETS FOR SHEARWALLS.)

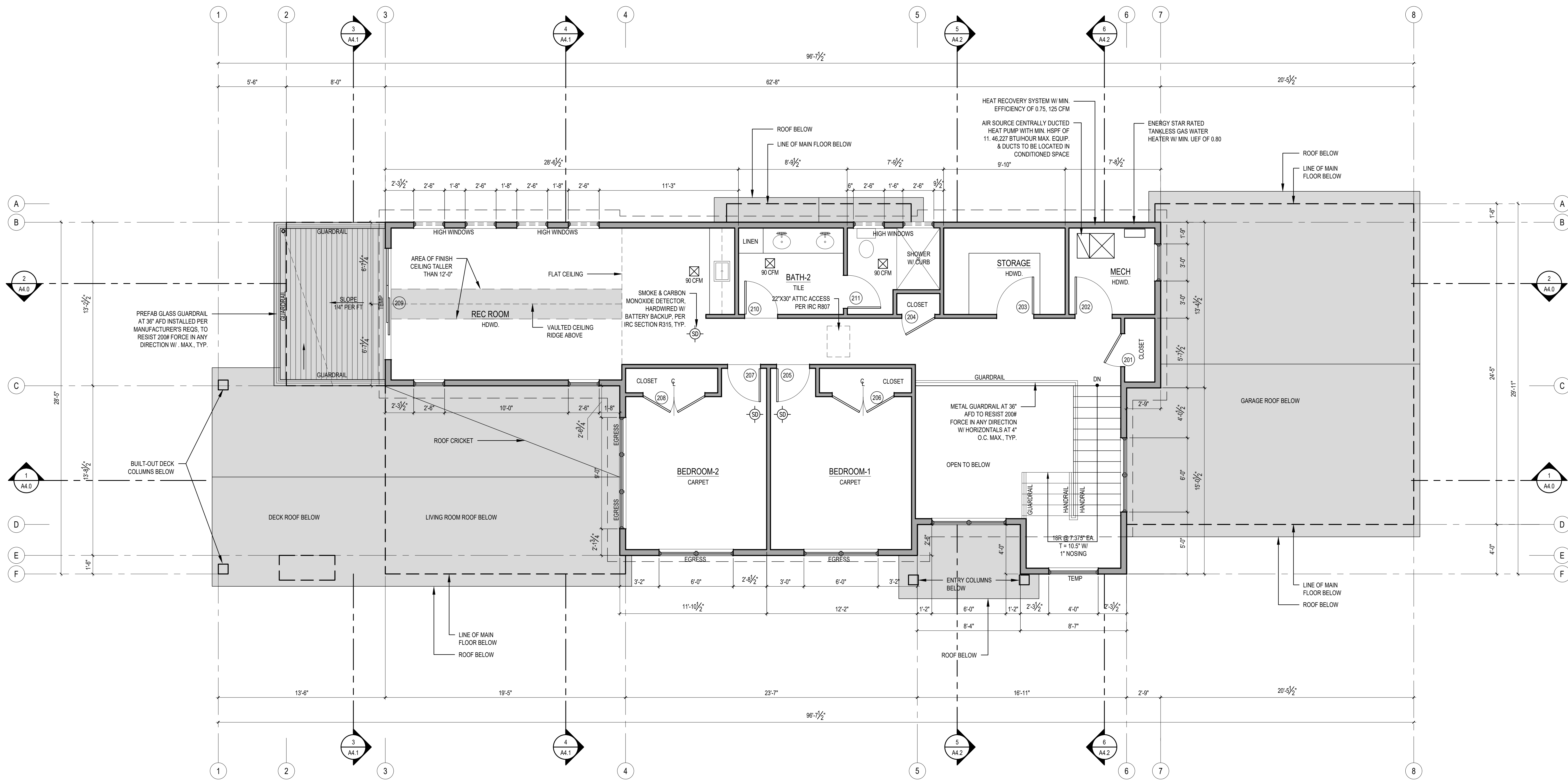
-  TYPICAL EXTERIOR WALL
EXTERIOR WALL FINISH α (2)
LAYERS 60# BLDG. PAPER α 1/2"
CDX PLYWOOD α 2x6 WOOD
STUDS AT 16" O.C. w/ 1/2"
GYPSUM WALLBOARD AT INTERIOR. PROVIDE R-21 BATT
INSULATION EXCEPT AROUND GARAGE.
-  TYPICAL INTERIOR PARTITION
U.N.O. ALL INTERIOR WALL SHALL BE 2x4 WOOD STUDS α
16" O.C. w/ 1/2" GYPSUM WALLBOARD EACH SIDE.
-  TYPICAL FURRED WALL
2" AIRSPACE, 2x4 P.T. WOOD STUDS α 16" O.C. w/ 1/2"
GYPSUM WALLBOARD AT INTERIOR. PROVIDE R-21 BATT
INSULATION.
-  1HR. FIRE RATED WALL
5/8" THK GWB, TYPE 'X' α 2x6 WD STUDS α 16" O.C.
PANELS NAILED 7" O.C. 1 7/8" CEM CTD NAILS. JOINTS EXP
OR FIN - PERIM CAULKED-UL DES U305 & U314- JOINTS
FIN



2 CRAWLSPACE VENT PLAN
 SCALE: 1/8" = 1'-0"

CRAWLSPACE VENTING:
 (AREA) 1661 SF / 300 = 5.54 SF VENTING REQ'D.
 5.54 SF X 144 = 797.76 SQ. IN.
 88 SQ. IN. STD. VENT.
 797.76 / 88 = 11.7 VENTS REQ.
 12 VENTS WILL BE PROVIDED
 USE APPROVED CLASS I VAPOR RETARDER PER
 IBC R408.2 EXCEPTION.

SCALE: IF SHEET IS LESS THAN 24" X 36" IT IS A
 REDUCED PRINT. REDUCE SCALE ACCORDINGLY
 PERMIT SET 03/31/23 PLOT DATE: 3/30/2023



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

WALL PARTITION TYPES:

N.T.S. (SEE STRUCTURAL SHEETS FOR SHEARWALLS.)

TYPICAL EXTERIOR WALL
 EXTERIOR WALL FINISH α (2)
 LAYERS 60# BLDG. PAPER α 1/2"
 CDX PLYWOOD α 2x6 WOOD
 STUDS AT 16" O.C. w/ 1/2"
 GYPSUM WALLBOARD AT INTERIOR. PROVIDE R-21 BATT
 INSULATION EXCEPT AROUND GARAGE.

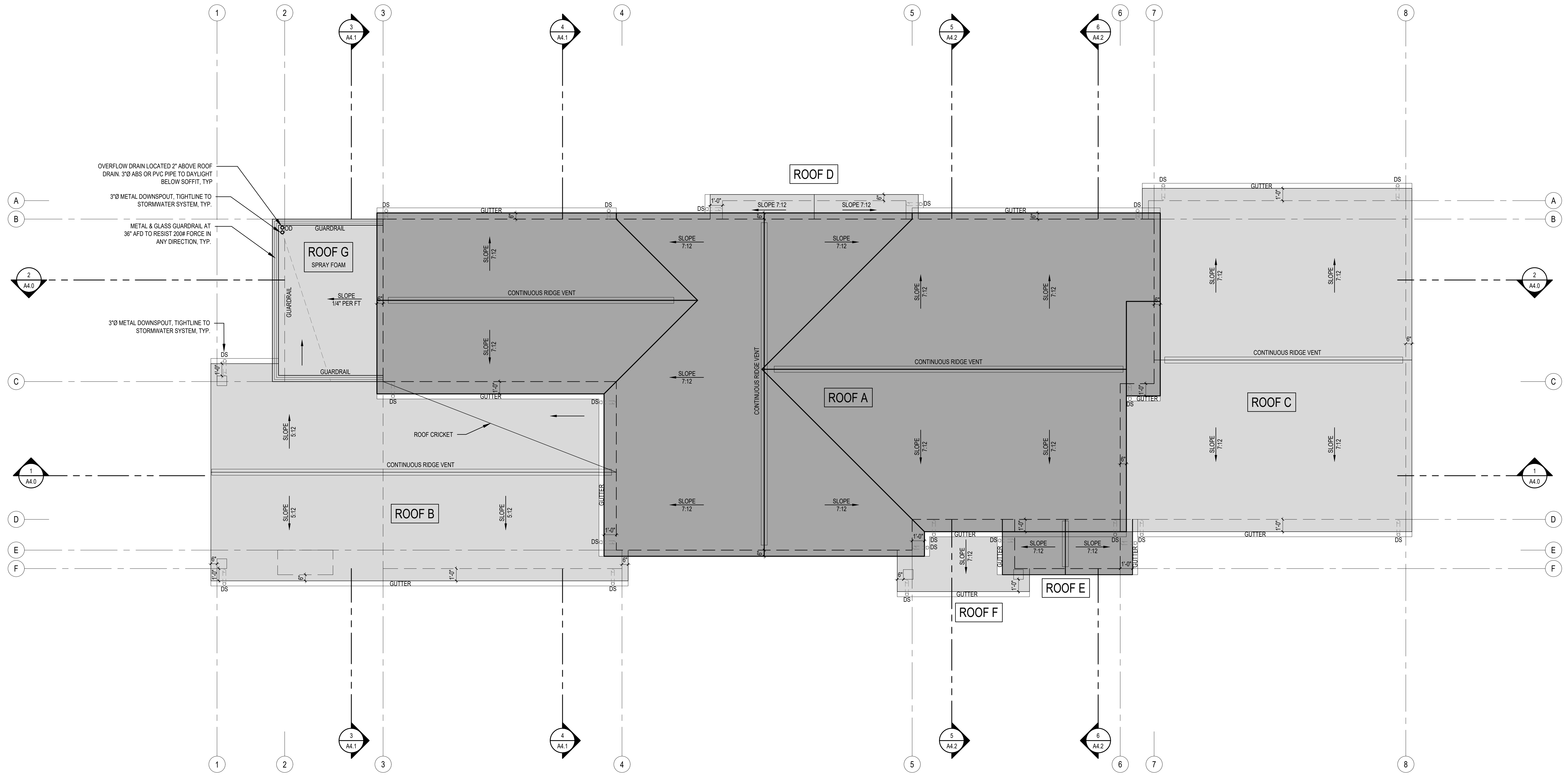
TYPICAL INTERIOR PARTITION
 U.N.O. ALL INTERIOR WALL SHALL BE 2x4 WOOD STUDS @
 16" O.C. w/ 1/2" GYPSUM WALLBOARD EACH SIDE.

TYPICAL FURRED WALL
 2" AIRSPACE, 2x4 P.T. WOOD STUDS @ 16" O.C. w/ 1/2"
 GYPSUM WALLBOARD AT INTERIOR. PROVIDE R-21 BATT
 INSULATION.

1HR. FIRE RATED WALL
 5/8" THK GWB, TYPE 'X' α 2x6 WD STUDS @ 16" O.C.
 PANELS NAILED 7" O.C.-1 7/8" CEM CTD NAILS- JOINTS EXP
 OR FIN - PERIM CAULKED- UL DES U305 & U314- JOINTS
 FIN

PLAN NOTES:

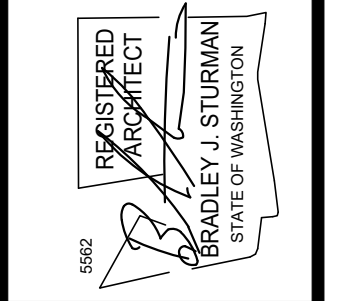
- CONTRACTOR SHALL CONFIRM TO INSPECTOR CAPACITY OF ALL GUARDS AND HANDRAILS SHALL BE CAPABLE OF RESISTING 200# FORCE IN ANY DIRECTION.
- ATTIC ACCESS PER IRC R807. THE ACCESS OPENING WILL BE REQUIRED TO BE A MIN. SIZE WHICH ALLOWS REMOVAL OF LARGEST APPLIANCE. SHALL BE LOCATED LESS THAN 20 FEET FROM APPLIANCE. SHALL BE PROVIDED WITH A CONTINUOUS SOLID FLOORING NOT LESS THAN 24 INCHES WIDE. SHALL BE PROVIDED WITH A LUMINAIRE CONTROLLED BY A SWITCH LOCATED AT THE ACCESS OPENING. SHALL HAVE A RECEPTACLE OUTLET LOCATED AT OR NEAR THE APPLIANCES. PER IRC M1305.1.3 & M1306.1.3.1.



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

ROOF VENT CALCULATIONS											
DESCRIPTION	SF AREA	REQ. VENTING		CALCULATIONS				TOTAL		ACTUAL	
		PER SF AREA	300	VENT TYPE	VENT L.F.	VENT AREA	SF CONVERT.	80% EFF FACTOR	TOTAL		
ROOF A	1,347	8.98	300	RIDGE	18 SQ.IN./FT.	91	1638	11.38	9.10	14.50	
				SOFFIT	1.5" VENT	81	972	6.75	5.40		
				CONTINUOUS	18 SQ.IN./FT.	38.5	693	4.81	3.85	6.02	
				CONTINUOUS	1.5" VENT	32.5	390	2.71	2.17		
ROOF B	500	3.33	300	RIDGE	18 SQ.IN./FT.	44	792	5.50	4.40	5.92	
				SOFFIT	1.5" VENT	22.75	273	1.90	1.52		
				CONTINUOUS	18 SQ.IN./FT.	3	54	0.38	0.30	0.30	
				CONTINUOUS	1.5" VENT	1.5	0.00	0.00	0.00		
ROOF C	561	3.74	300	RIDGE	18 SQ.IN./FT.	8	144	1.00	0.80	0.80	
				SOFFIT	1.5" VENT	4	0.00	0.00	0.00		
				CONTINUOUS	18 SQ.IN./FT.	9.75	175.5	1.22	0.98	0.98	
				CONTINUOUS	1.5" VENT	0.00	0.00	0.00	0.00		
ROOF D	22	0.15	300	RIDGE	18 SQ.IN./FT.	0.00	0.00	0.00	0.00	0.00	
				SOFFIT	1.5" VENT	0.00	0.00	0.00	0.00		
				CONTINUOUS	18 SQ.IN./FT.	0.00	0.00	0.00	0.00		
				CONTINUOUS	1.5" VENT	0.00	0.00	0.00	0.00		
ROOF E	34	0.23	300	RIDGE	18 SQ.IN./FT.	0.00	0.00	0.00	0.00	0.00	
				SOFFIT	1.5" VENT	0.00	0.00	0.00	0.00		
				CONTINUOUS	18 SQ.IN./FT.	0.00	0.00	0.00	0.00		
				CONTINUOUS	1.5" VENT	0.00	0.00	0.00	0.00		
ROOF F	42	0.28	300	RIDGE	18 SQ.IN./FT.	0.00	0.00	0.00	0.00	0.00	
				SOFFIT	1.5" VENT	0.00	0.00	0.00	0.00		
				CONTINUOUS	18 SQ.IN./FT.	0.00	0.00	0.00	0.00		
				CONTINUOUS	1.5" VENT	0.00	0.00	0.00	0.00		

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.
PERMIT SET 03/31/23 PLOT DATE: 3/30/2023

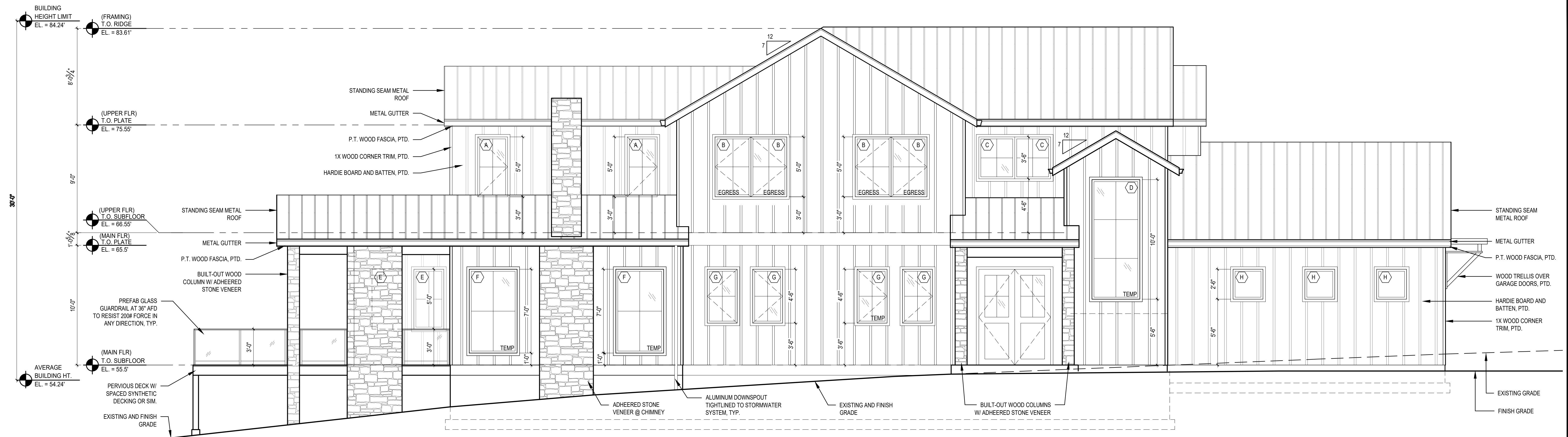


M. SMERSH RESIDENCE
PERMIT SET
2423 60TH AVE SE
MERCER ISLAND, WA 98040

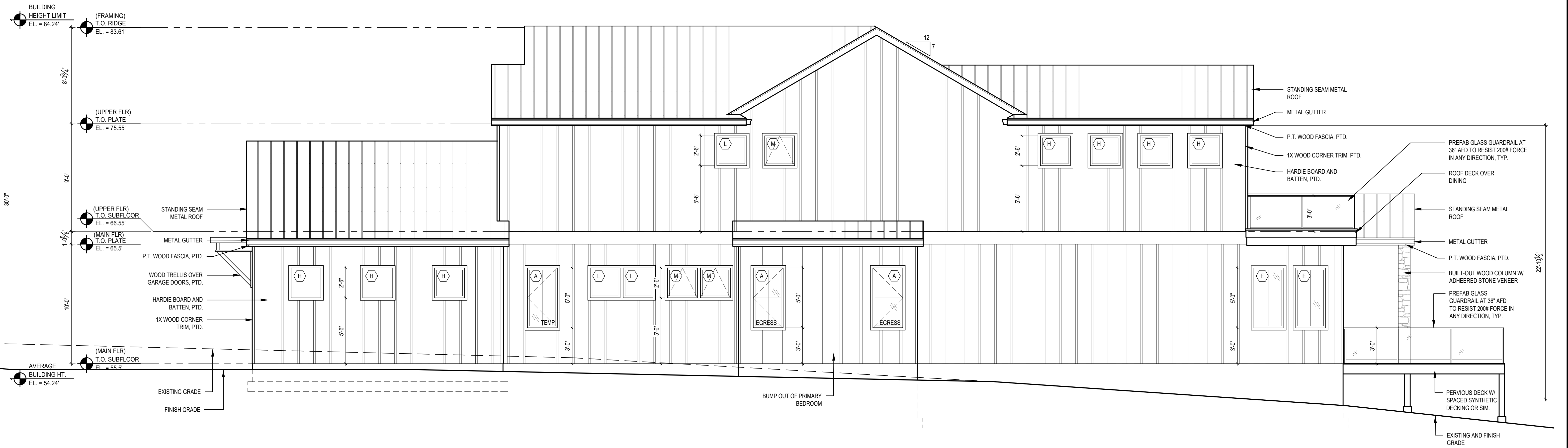
ROOF PLAN

REVISIONS:	DATE	DESCRIPTION

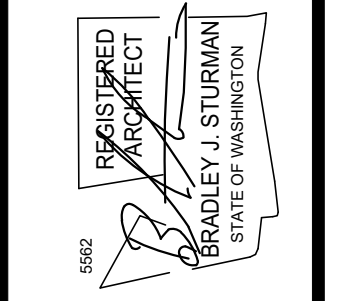
DRAWN BY: KE
CHECKED BY: BJS
SHEET



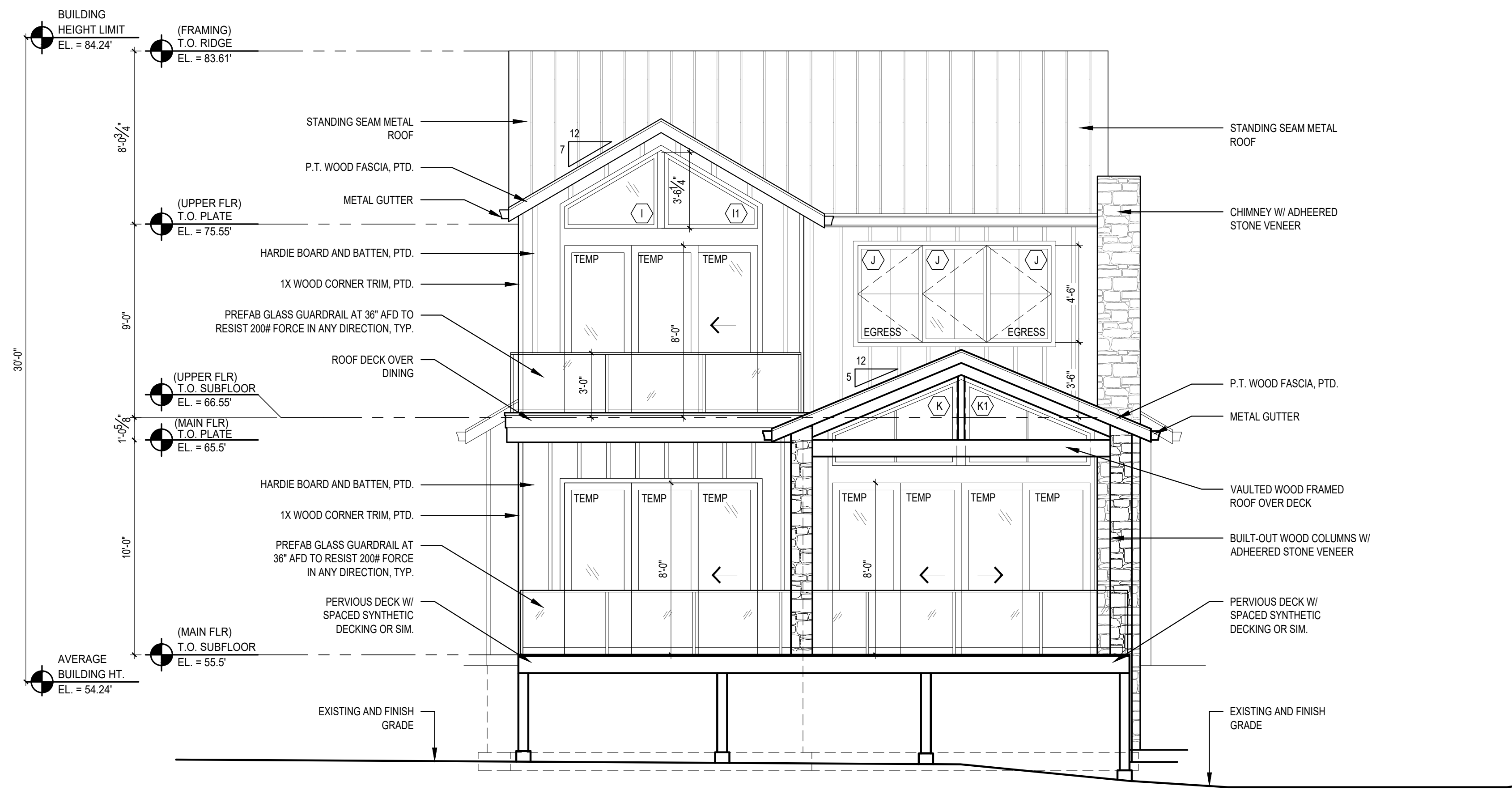
1 SOUTH ELEVATION
SCALE: 1/4" = 1'



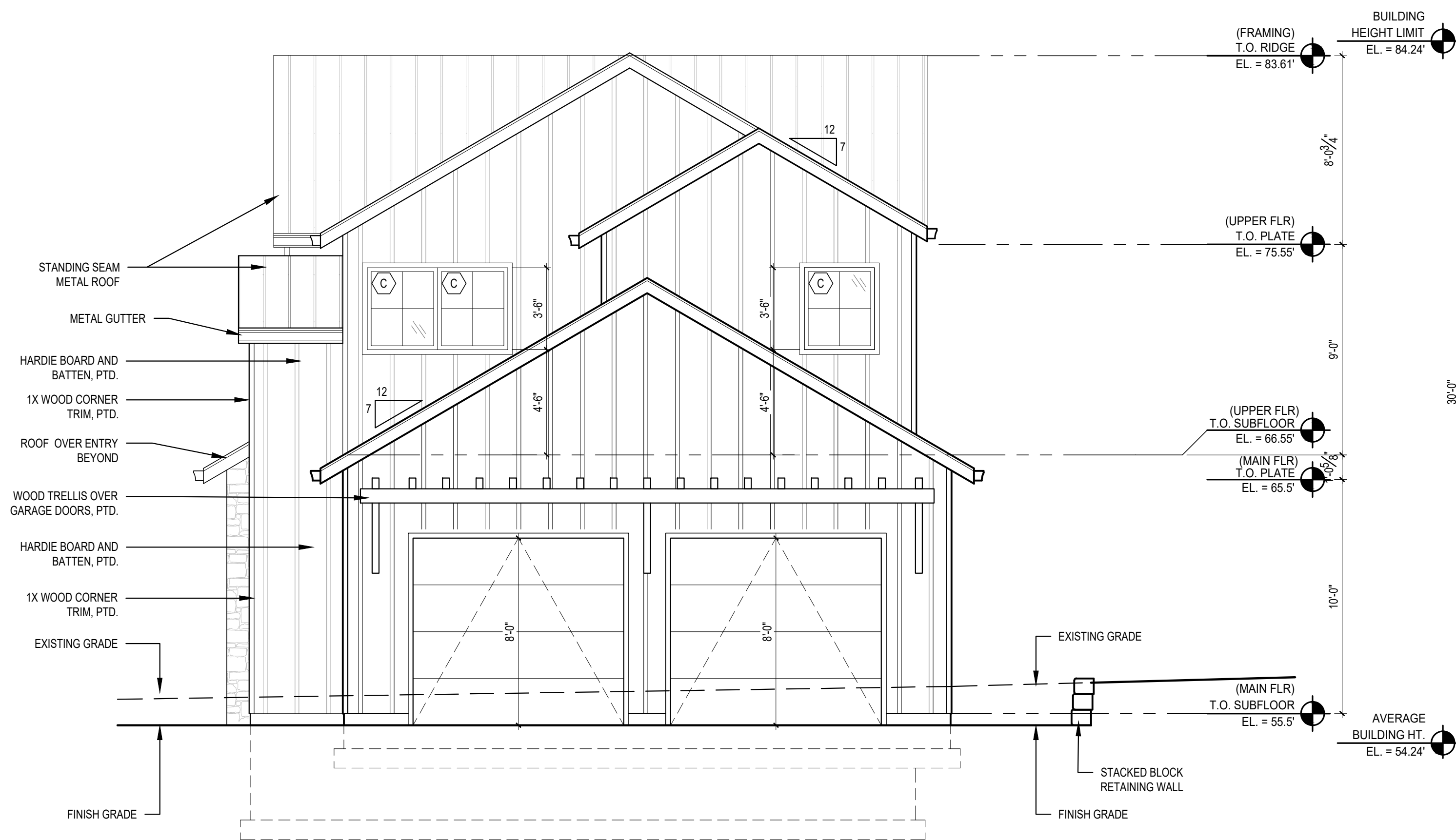
2 NORTH ELEVATION
SCALE: 1/4" = 1'



REVISIONS:	
1	KE
2	BJS
3	
4	
5	
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	



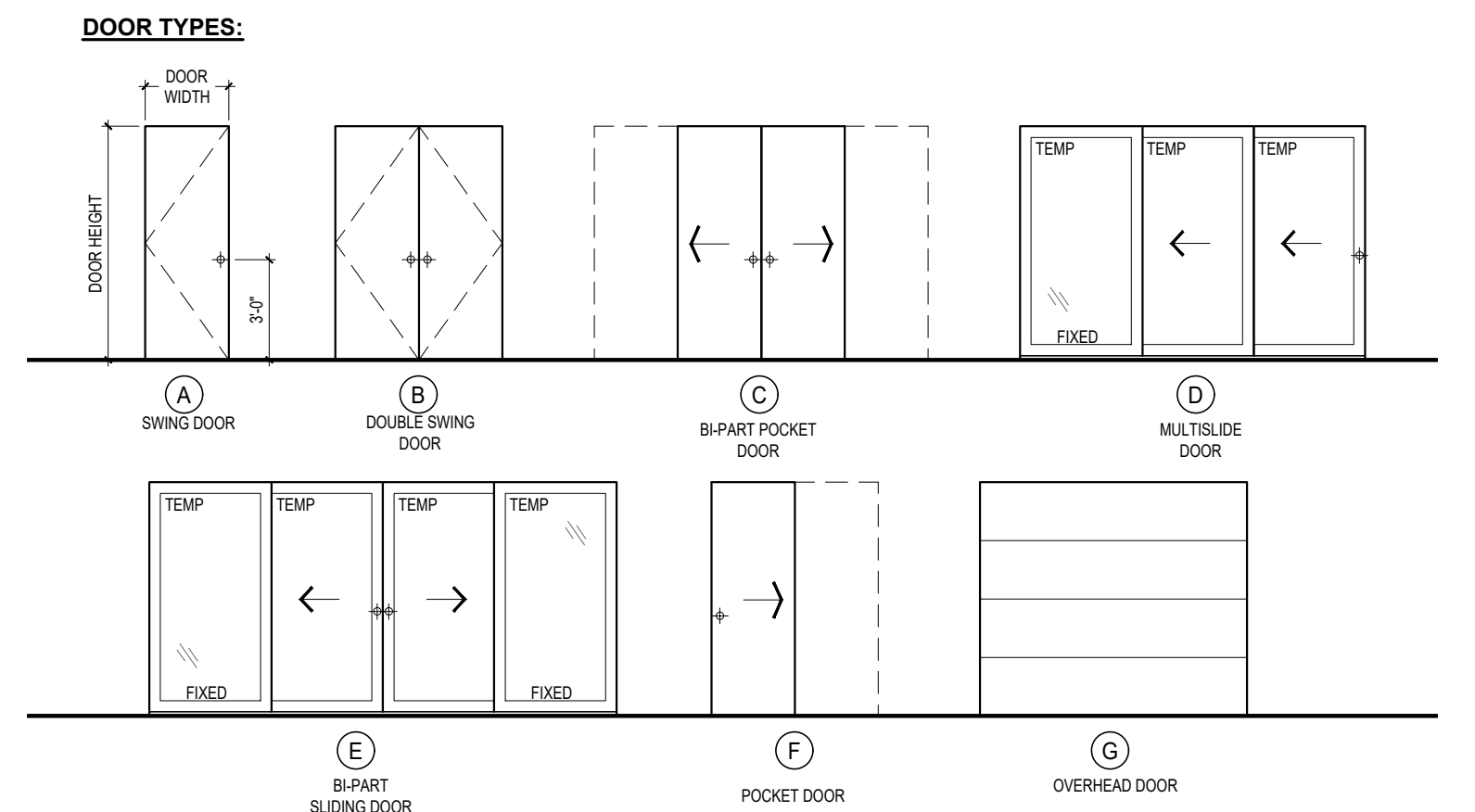
3 WEST ELEVATION
SCALE: 1/4" = 1'



4 EAST ELEVATION
SCALE: 1/4" = 1'

WINDOW SCHEDULE - Smersh Residence									
TAG	DESCRIPTION	R.O. SIZE		TEMP.	QTY.	AREA (SF)	U-VAL (MIN.)	GLAZING	REMARKS & NOTES
		WIDTH	HEIGHT						
A	CASEMENT	2'-6"	5'-0"	TEMP	5	0.28	LOW E / CLEAR	SOME TEMPERED	
B	CASEMENT	3'-0"	5'-0"		4	0.28	LOW E / CLEAR	EGRESS	
C	FIXED	3'-0"	3'-6"		5	0.28	LOW E / CLEAR		
D	FIXED	4'-0"	10'-0"	TEMP	1	0.28	LOW E / CLEAR	TEMPERED GLASS	
E	FIXED	2'-6"	5'-0"		4	0.28	LOW E / CLEAR		
F	FIXED	4'-0"	7'-0"	TEMP	2	0.28	LOW E / CLEAR	TEMPERED GLASS	
G	CASEMENT	2'-6"	4'-6"	TEMP	4	0.28	LOW E / CLEAR	SOME TEMPERED	
H	FIXED	2'-6"	2'-6"		10	0.28	LOW E / CLEAR		
I	FIXED	4'-4"	3'-6"		1	0.28	LOW E / CLEAR	TRANSOM, SLANTED HEAD	
I1	FIXED	4'-4"	3'-6"		1	0.28	LOW E / CLEAR	TRANSOM, SLANTED HEAD, REVERSE	
J	CASEMENT	3'-0"	4'-6"		3	0.28	LOW E / CLEAR	EGRESS	
K	FIXED	5'-9"	3'-11"		1	0.28	LOW E / CLEAR	TRANSOM, SLANTED HEAD	
K1	FIXED	5'-9"	3'-11"		1	0.28	LOW E / CLEAR	TRANSOM, SLANTED HEAD, REVERSE	
L	FIXED	2'-6"	2'-6"		3	0.28	LOW E / CLEAR	SHOWER WINDOWS	
M	AWNING	2'-6"	2'-6"		3	0.28	LOW E / CLEAR		

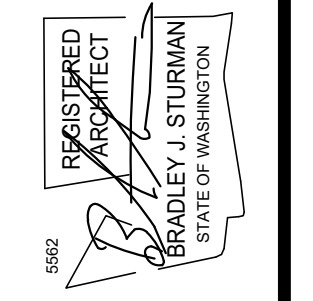
DOOR SCHEDULE - Smersh Residence									
DOOR NO.	LOCATION	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	TEMP. GLASS	DOOR THK.	U-VAL (MIN.)	REMARKS	
MAIN FLOOR									
101	ENTRY	PR 3'-0"	8'-0"		Y	1-3/4"	0.28	TEMPERED GLASS	
102	ENTRY CLOSET	2'-6"	8'-0"			1-3/4"			
103	BATH-1	2'-6"	8'-0"			1-3/4"			
104	LAUNDRY	2'-10"	8'-0"			1-3/4"		SOUND GASKET	
105	OFFICE	PR 2'-3"	8'-0"			1-3/4"		BI-PART POCKET	
106	LIVING	12'-0"	8'-0"		Y	1-3/4"	0.28	TEMP, BI-PART SLIDER	
107	DINING	9'-0"	8'-0"		Y	1-3/4"	0.28	TEMPERED GLASS	
108	PANTRY	2'-6"	8'-0"			1-3/4"			
109	PRIMARY BEDROOM	2'-8"	8'-0"			1-3/4"			
110	PRIMARY CLOSET	2'-8"	8'-0"			1-3/4"			
111	PRIMARY BATH	2'-8"	8'-0"			1-3/4"		POCKET	
112	UNDERSTAIR CLOSET	2'-8"	8'-0"			1-3/4"			
113	GARAGE	2'-10"	8'-0"			1-3/4"		20 MIN FIRE RATED, GASKET	
114	GARAGE	9'-0"	8'-0"			1-3/4"		OVERHEAD DOOR	
115	GARAGE	9'-0"	8'-0"			1-3/4"		OVERHEAD DOOR	
UPPER FLOOR									
201	HALL CLOSET	2'-8"	8'-0"			1-3/4"			
202	MECHANICAL	3'-0"	8'-0"			1-3/4"		SOUND GASKET	
203	STORAGE	3'-0"	8'-0"			1-3/4"			
204	HALL CLOSET	2'-8"	8'-0"			1-3/4"			
205	BEDROOM-1	2'-8"	8'-0"			1-3/4"			
206	BED-1 CLOSET	PR 2'-6"	8'-0"			1-3/4"			
207	BEDROOM-2	2'-8"	8'-0"			1-3/4"			
208	BED-2 CLOSET	PR 2'-6"	8'-0"			1-3/4"			
209	REC ROOM	9'-0"	8'-0"		Y	1-3/4"	0.28	TEMPERED GLASS	
210	BATH-2	2'-8"	8'-0"			1-3/4"			
211	BATH-2	2'-8"	8'-0"			1-3/4"			

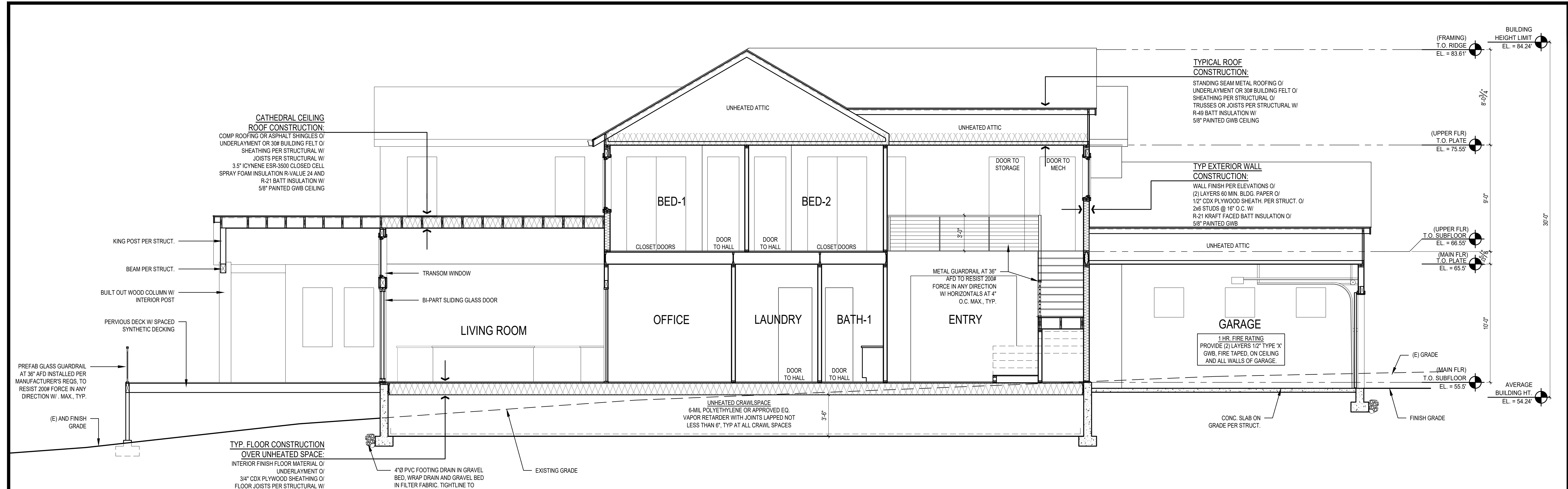


WINDOW & DOOR SCHEDULE NOTES:

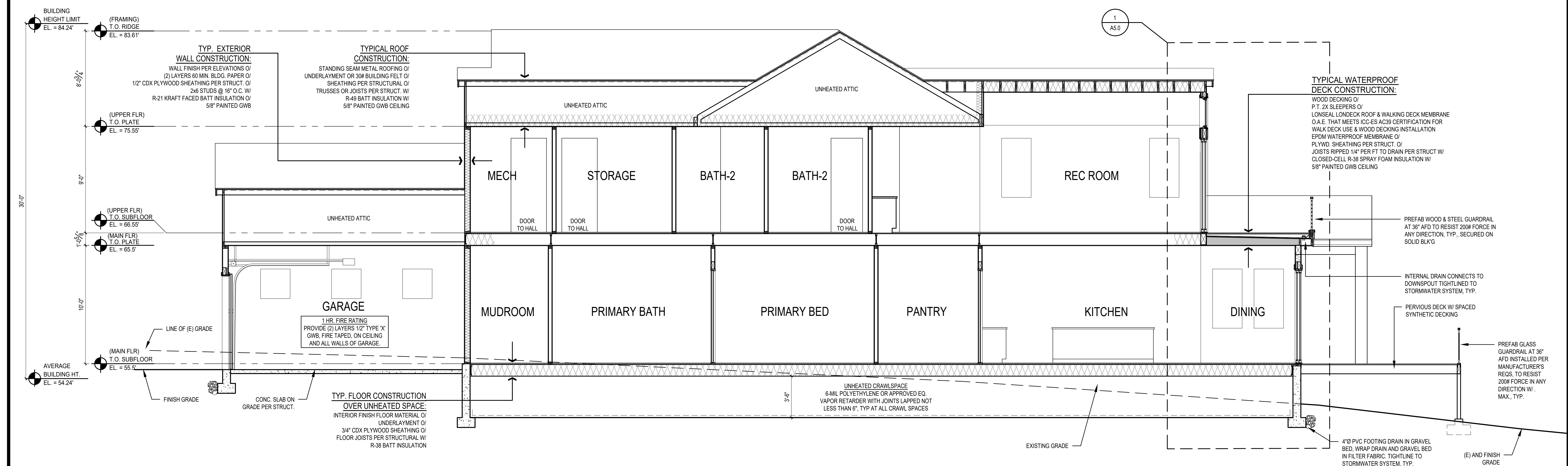
- CONTRACTOR TO VERIFY ALL GLAZING SIZING, AND DOOR DIMENSIONS IN FIELD PRIOR TO ROUGH FRAMING & ORDERING OF GLAZING WINDOW/DOOR MATERIALS. REVIEW SIZES AND ANY DISCREPANCIES W/ ARCHITECT.
- ALL GLAZING TO BE "LOW E", INSULATED GLASS UNLESS NOTED OTHERWISE.
- ALL OPERABLE WINDOWS TO HAVE SCREENS.
- GLAZING INDOORS AND/OR WITHIN 24" OF A DOOR TO BE TEMPERED. SEE EXTERIOR ELEVATION FOR TEMP. GLASS LOCATION & EGRESS WINDOWS.
- 2018 WSEC & VIAQ RESIDENTIAL PRESCRIPTIVE OPTION 3 ADOPTED. GLAZING AREA INDICATED UNLIMITED. SEE ENERGY NOTE AT A1.0 SHEET FOR DETAILS.
- ALL WINDOWS AND DOORS WITHOUT A BUG ARE EXISTING TO REMAIN.

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT; REDUCE SCALE ACCORDINGLY
PERMIT SET 03/31/23 PLOT DATE: 3/30/2023



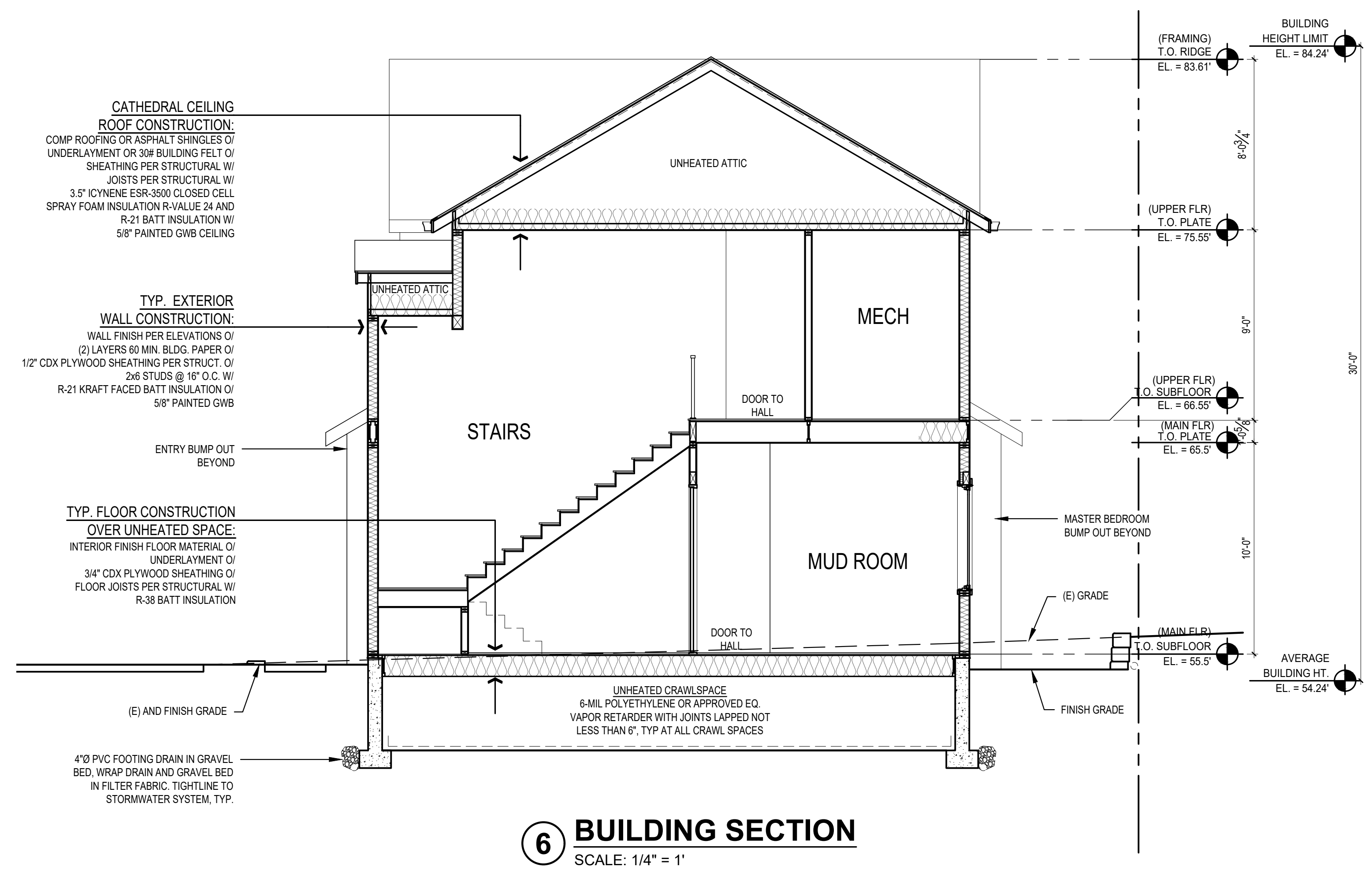
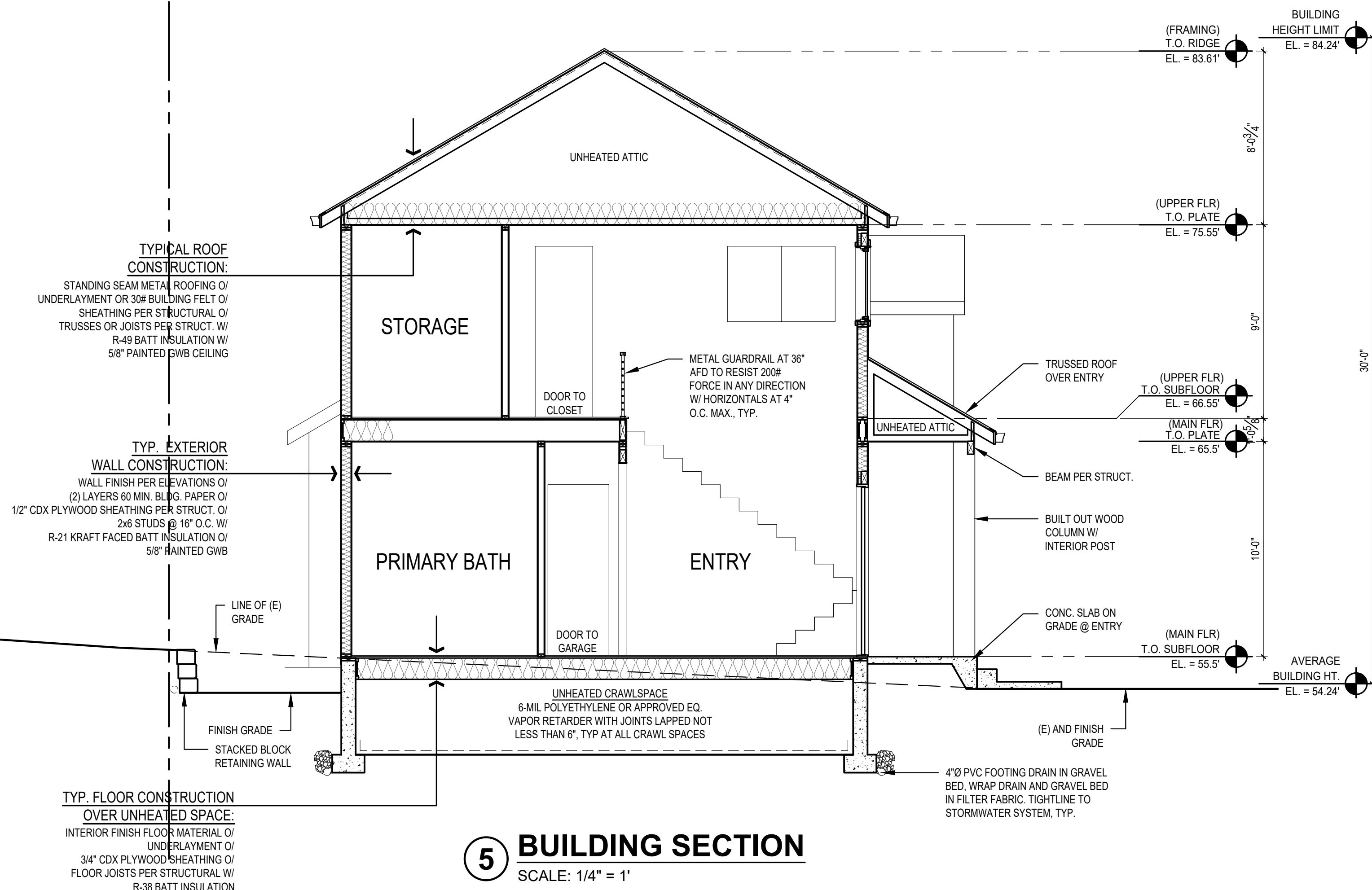
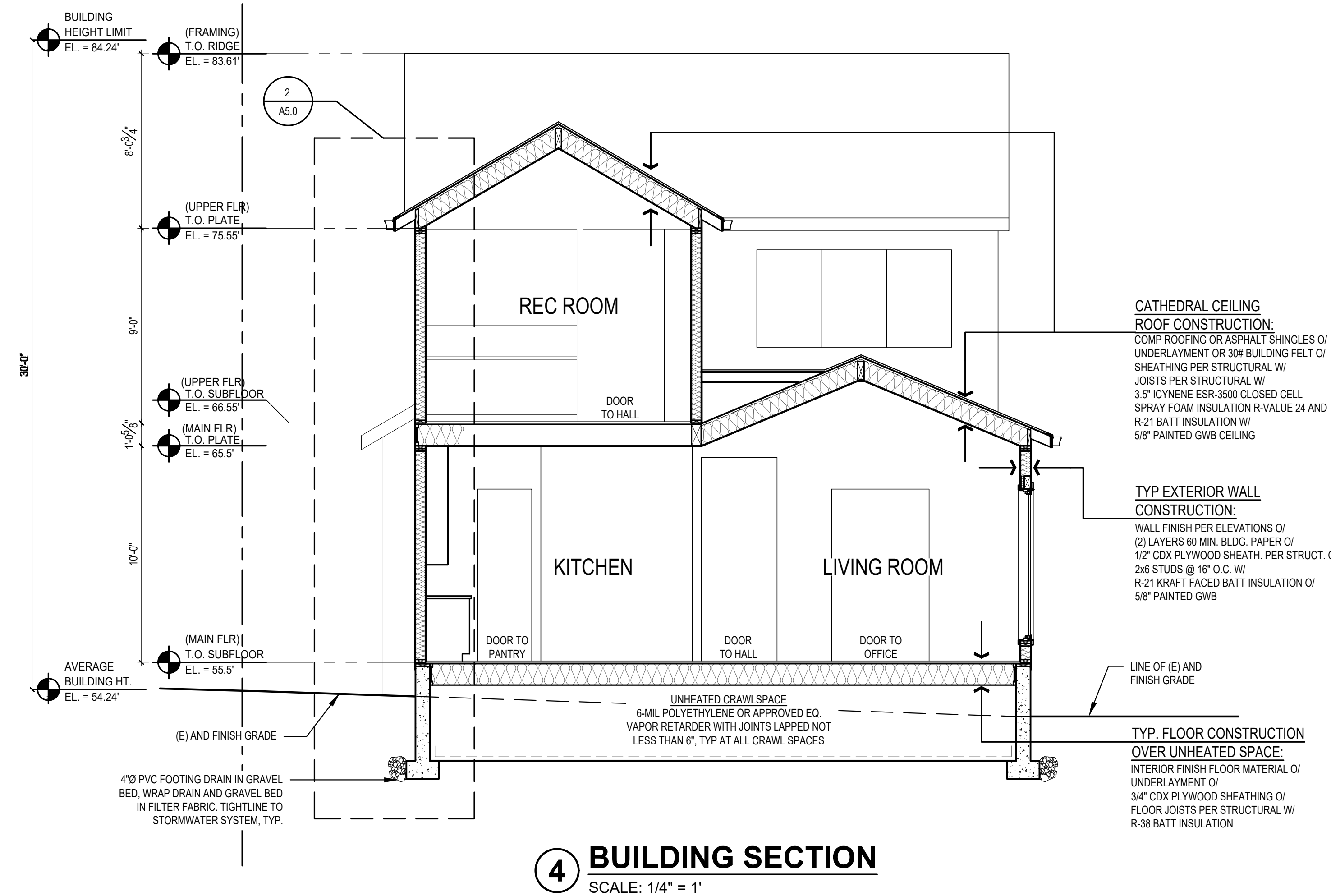
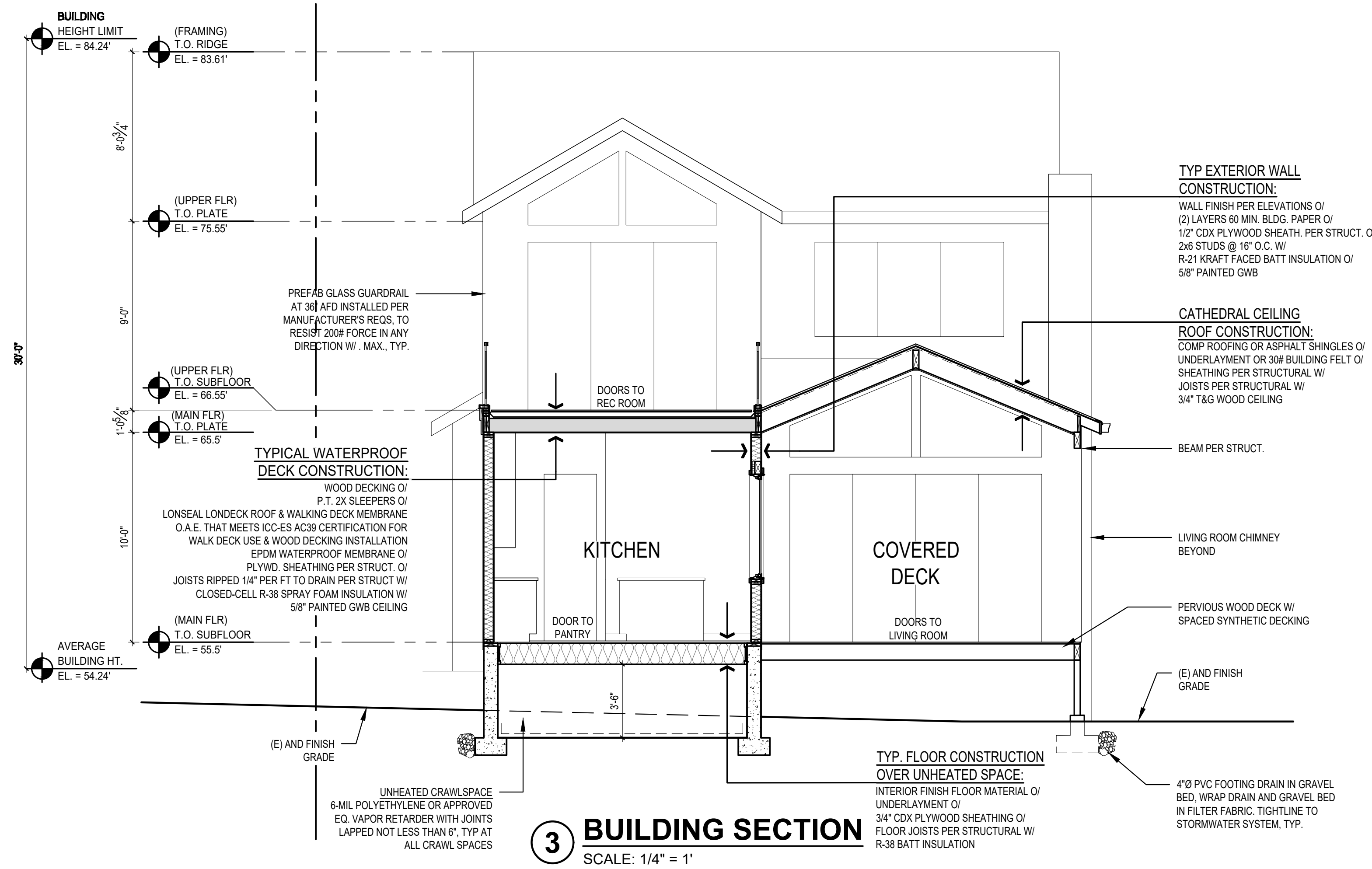


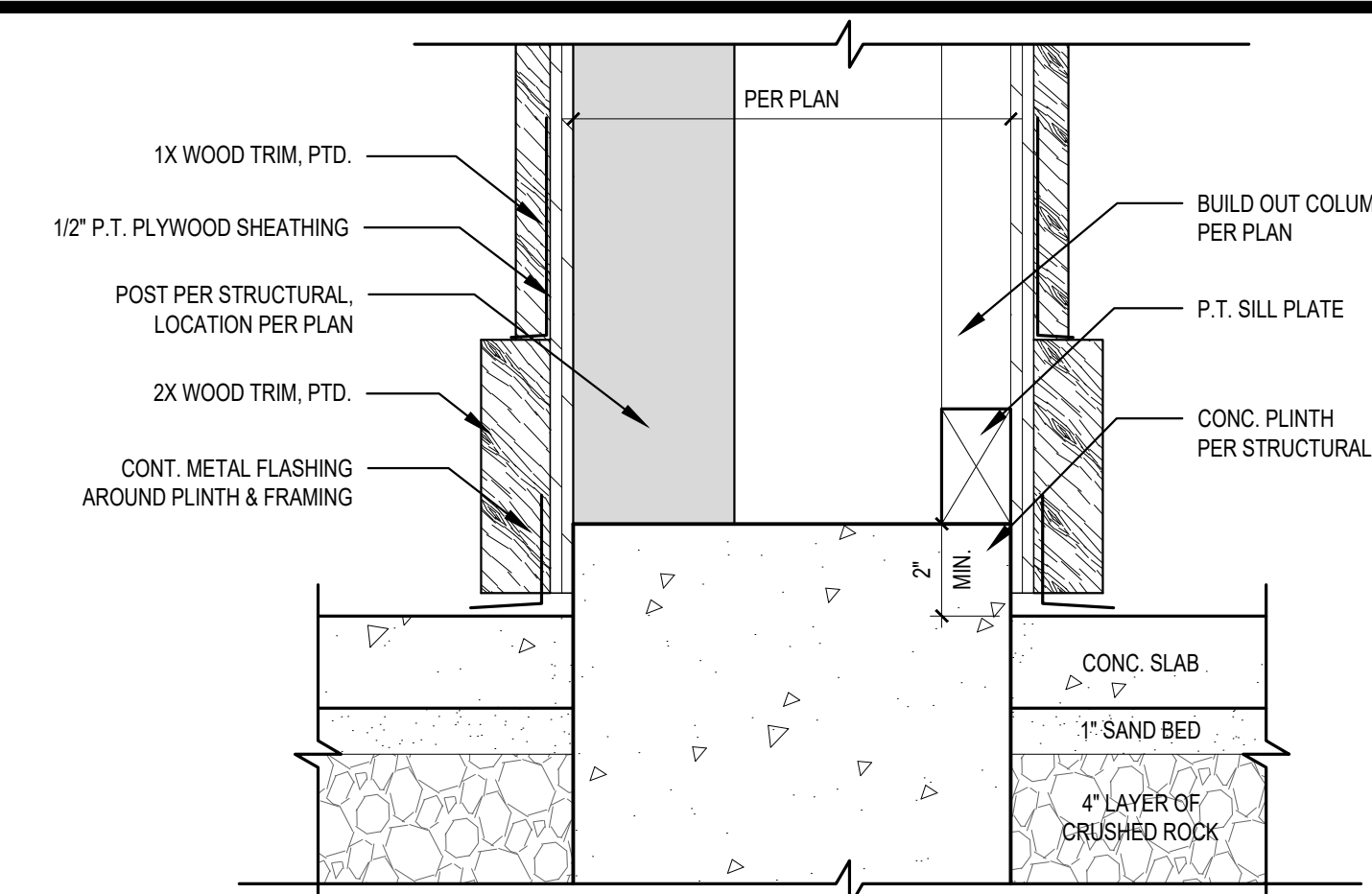
1 BUILDING SECTION
SCALE: 1/4" = 1'



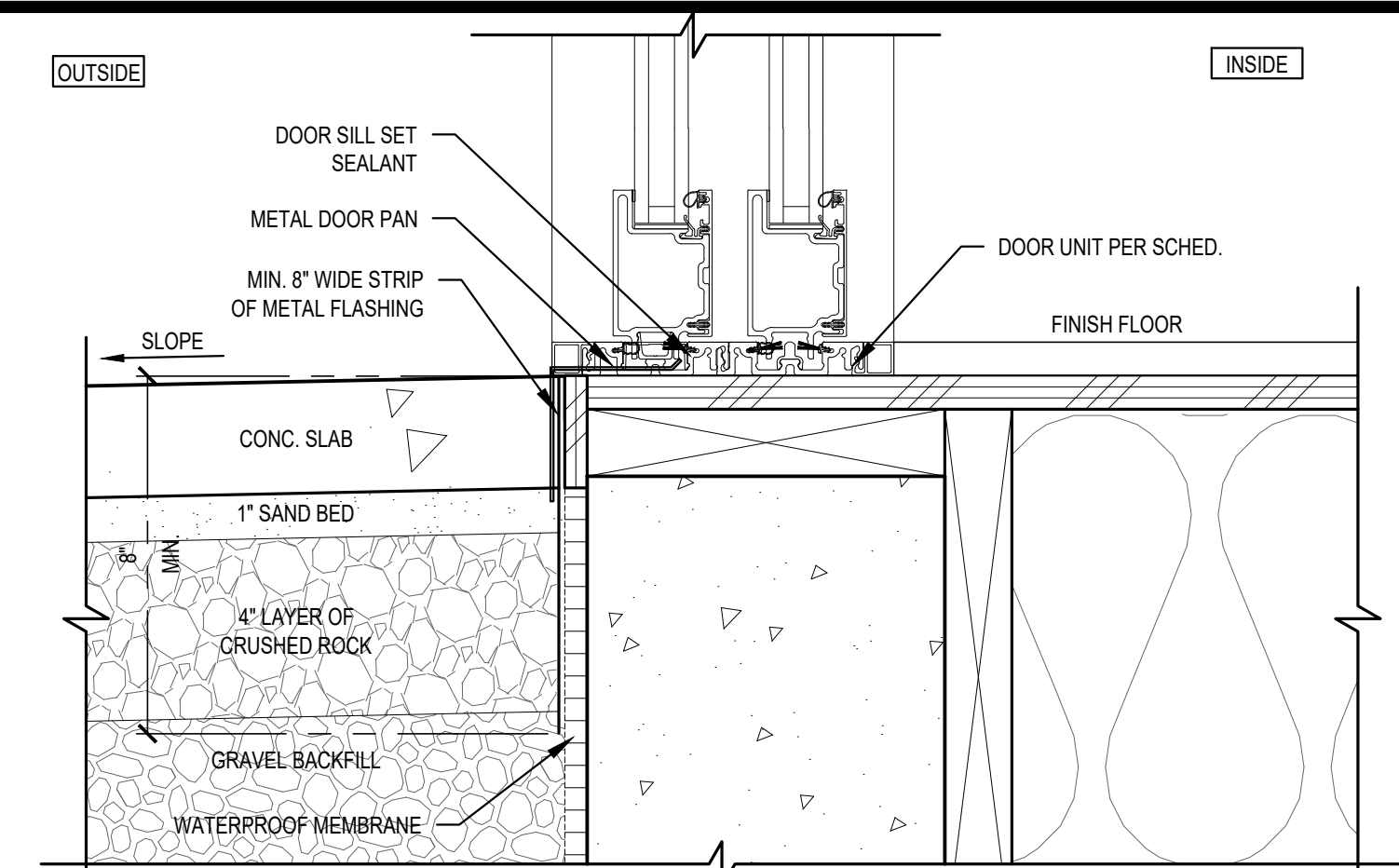
2 BUILDING SECTION
SCALE: 1/4" = 1'

REVISIONS:	
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	

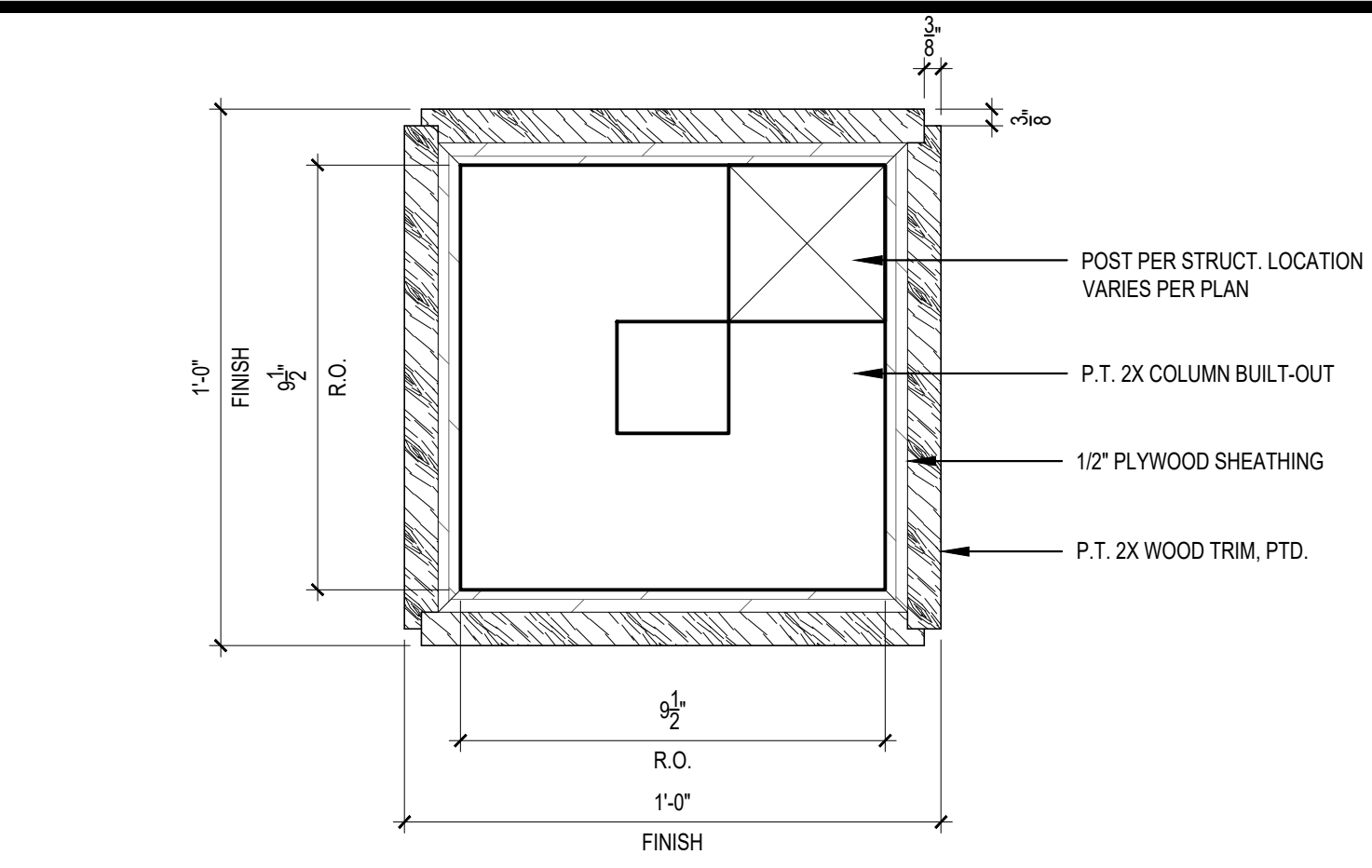




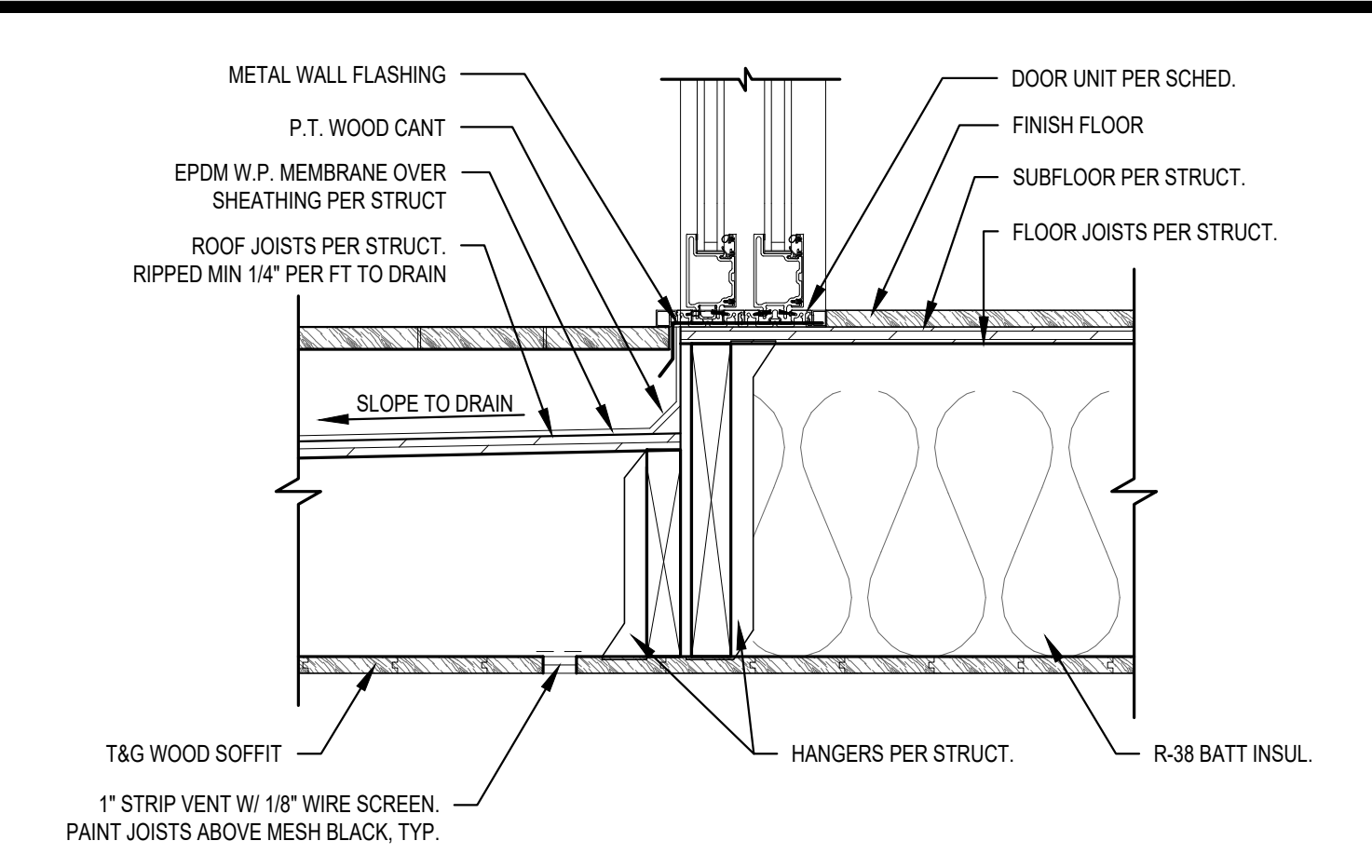
1 BUILT-OUT COLUMN CONC. PLINTH SECTION
SCALE: 3" = 1'-0"



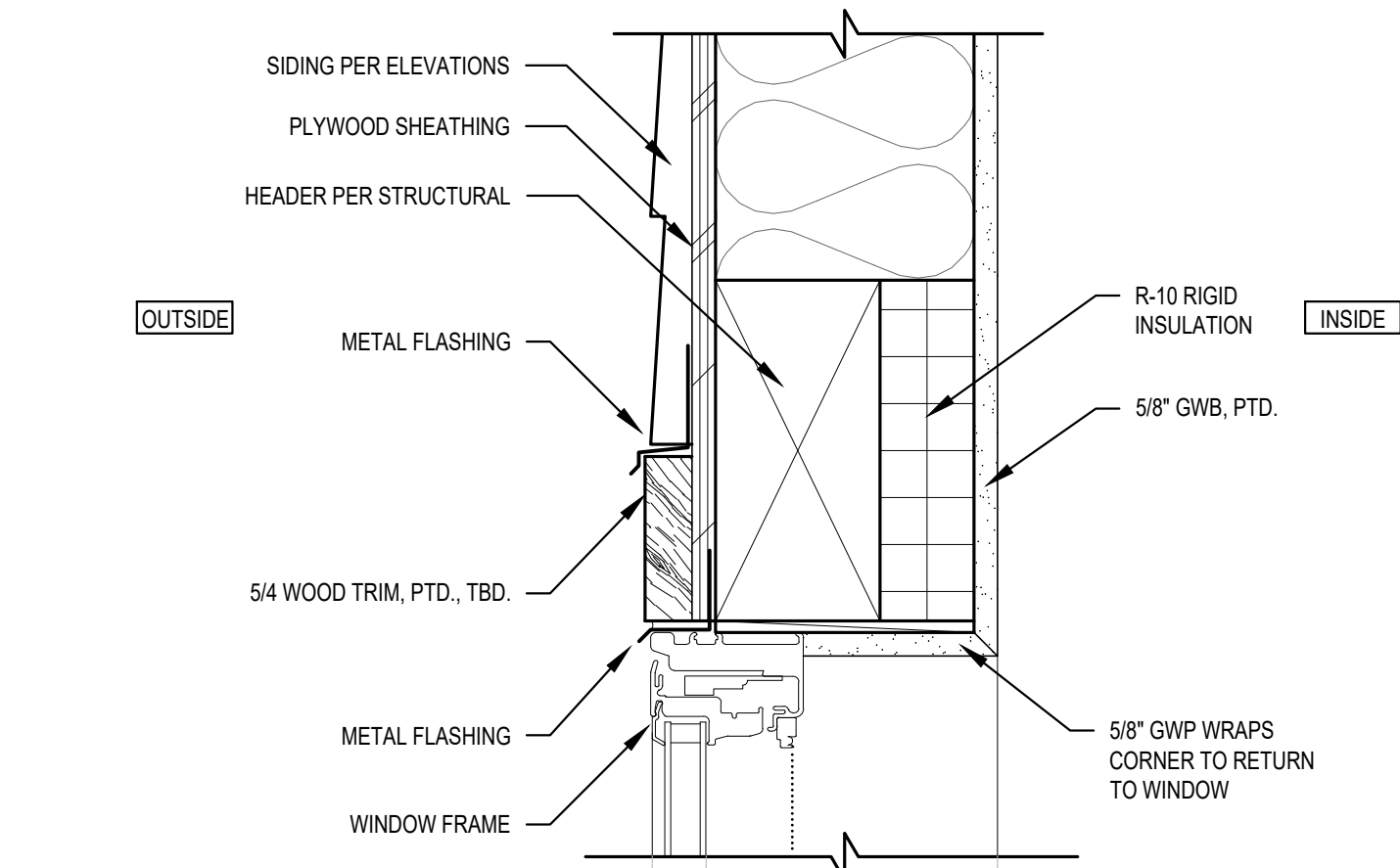
2 FLASHING DETAIL @ FLUSH THRESHOLD
SCALE: 3" = 1'-0"



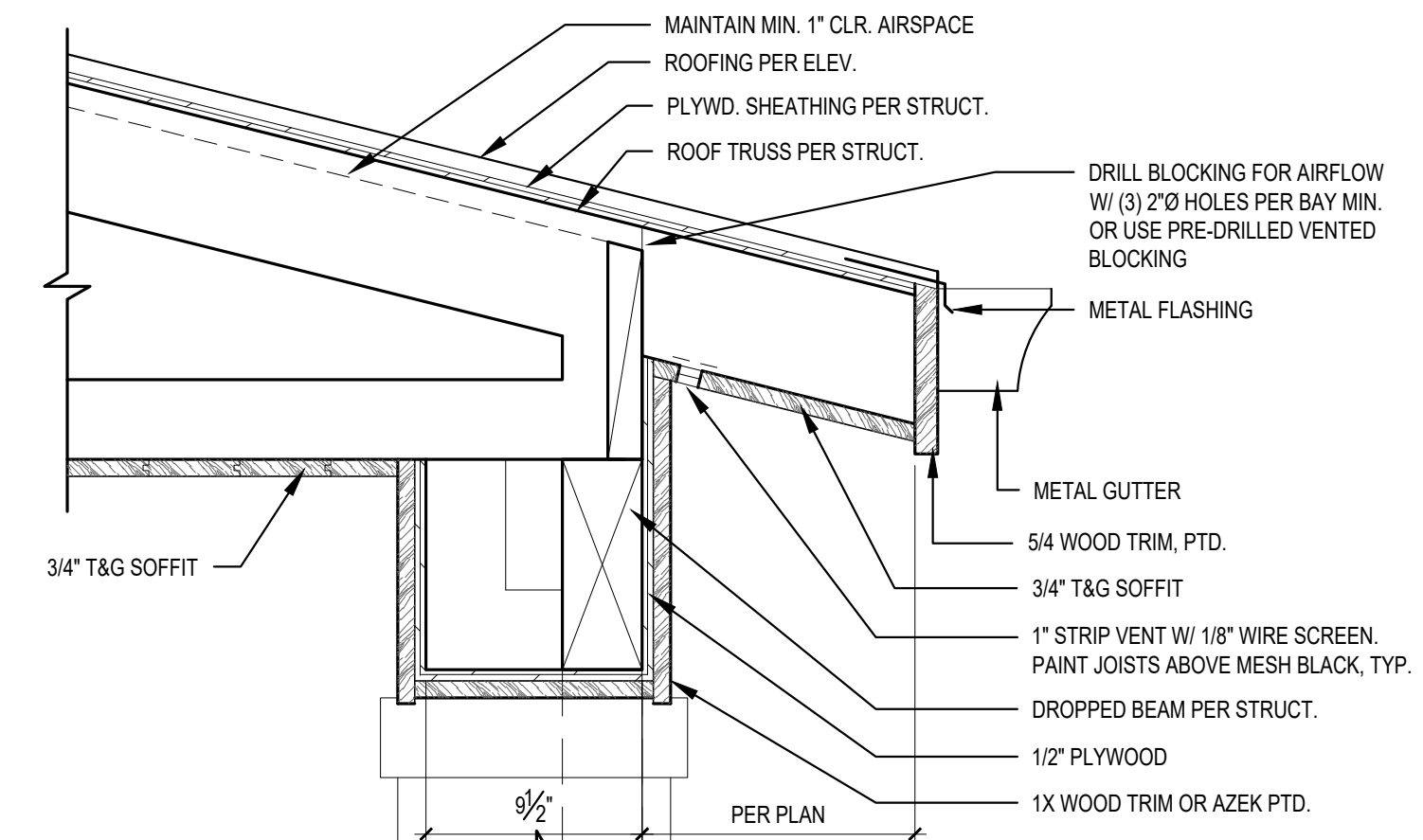
3 BUILT-OUT WOOD COLUMN PLAN
SCALE: 3" = 1'-0"



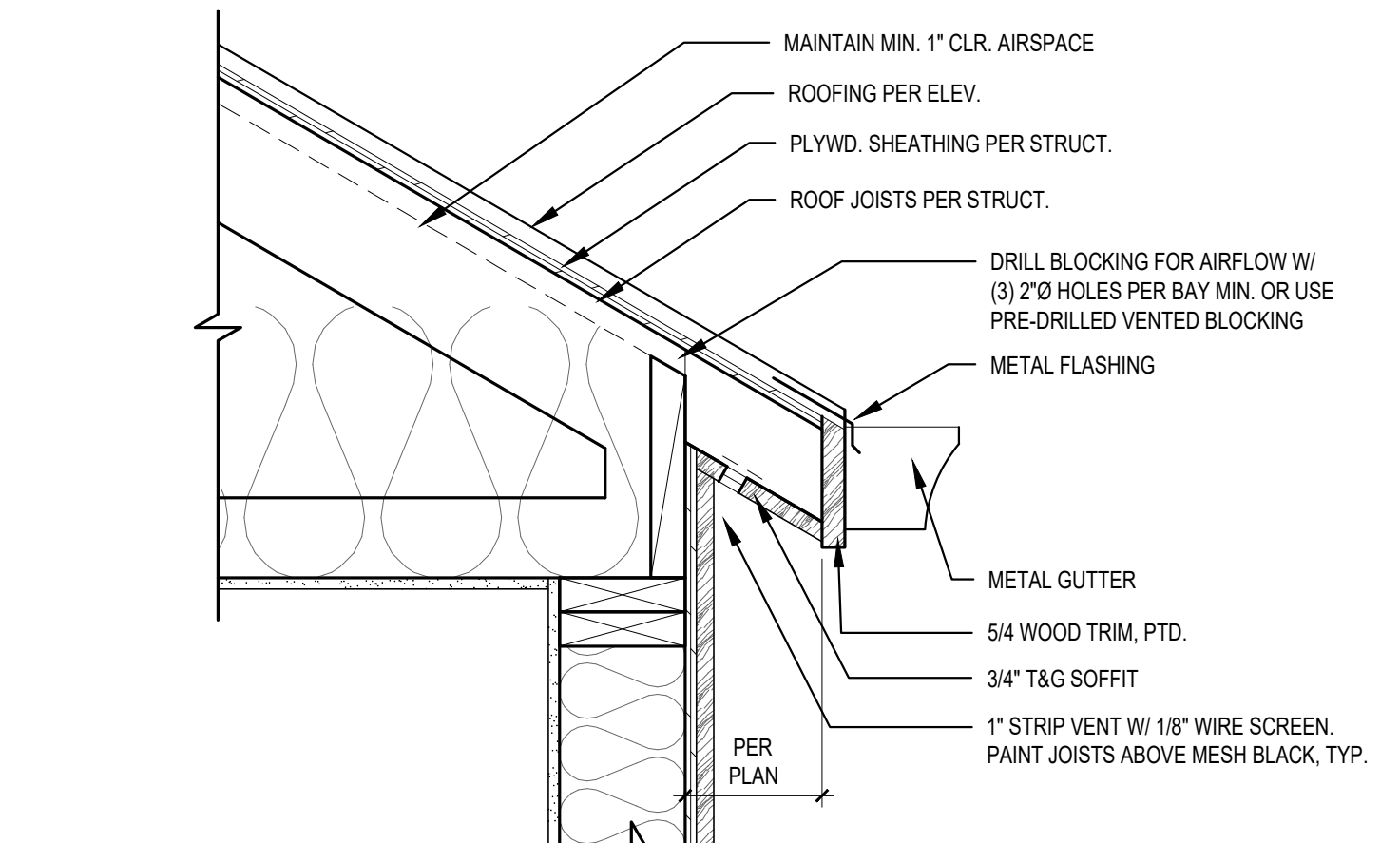
4 THRESHOLD @ DECK SECTION DETAIL
SCALE: 1-1/2" = 1'-0"



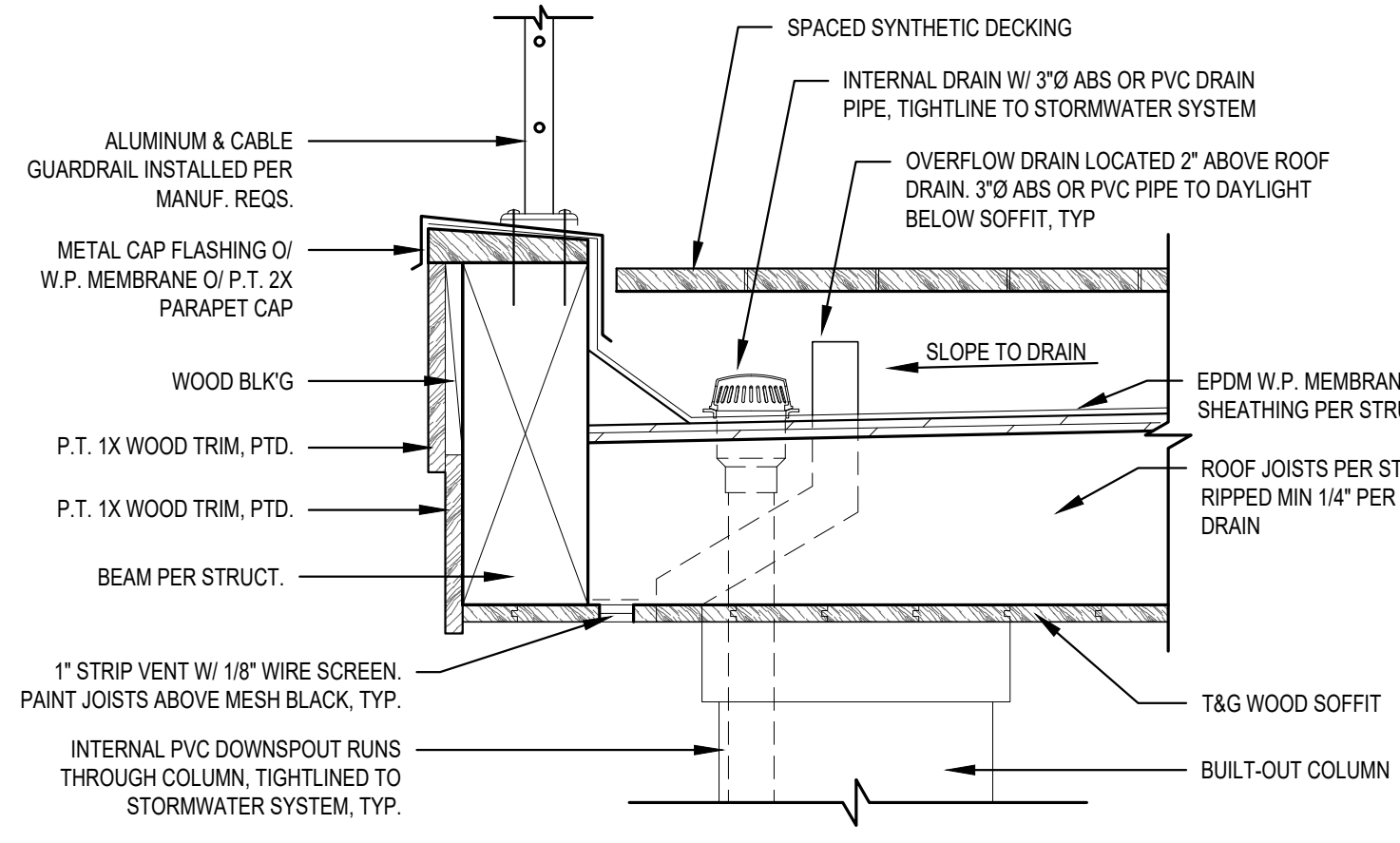
5 TYP. WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



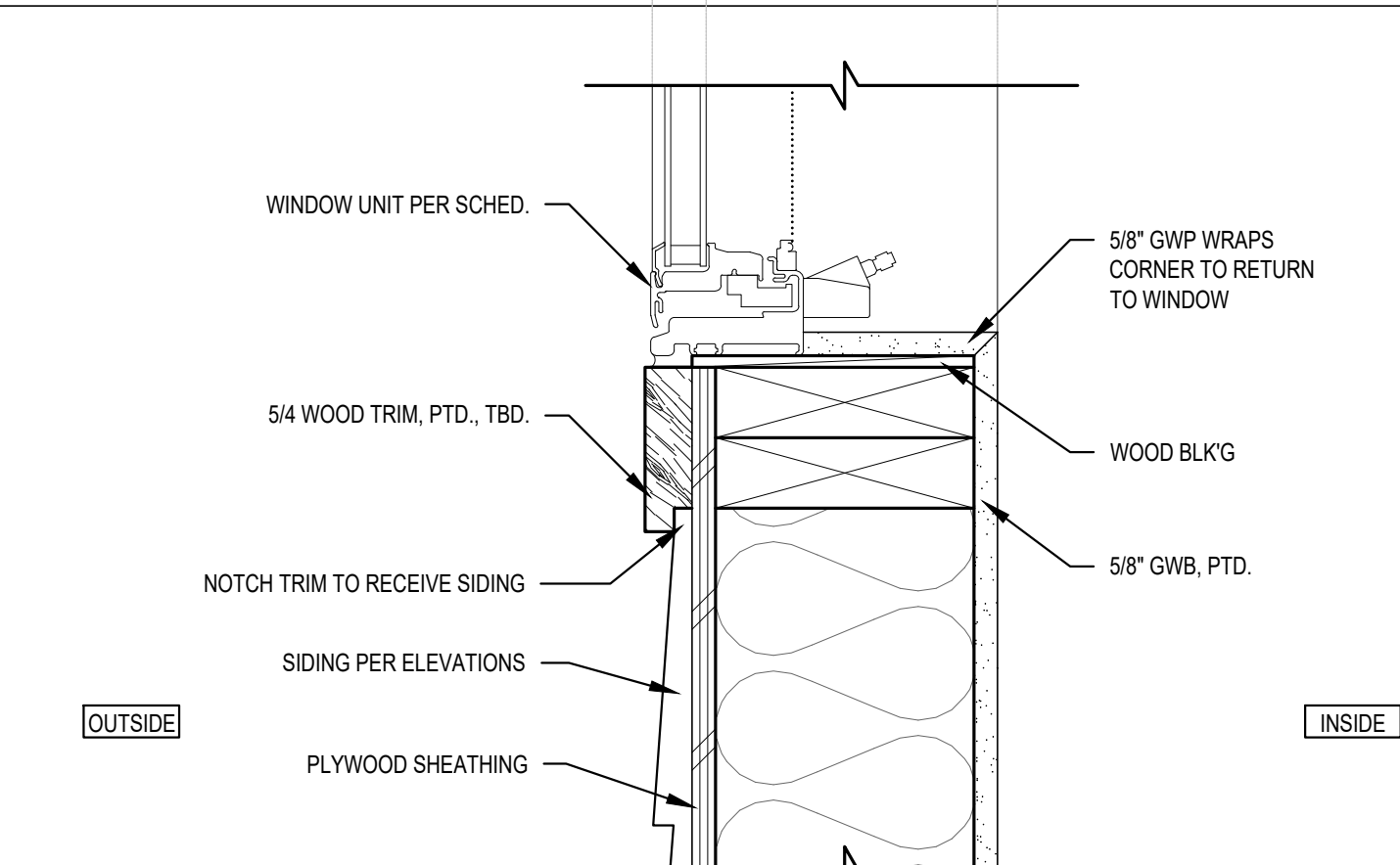
6 ENTRY ROOF EAVE DETAIL
SCALE: 1-1/2" = 1'-0"



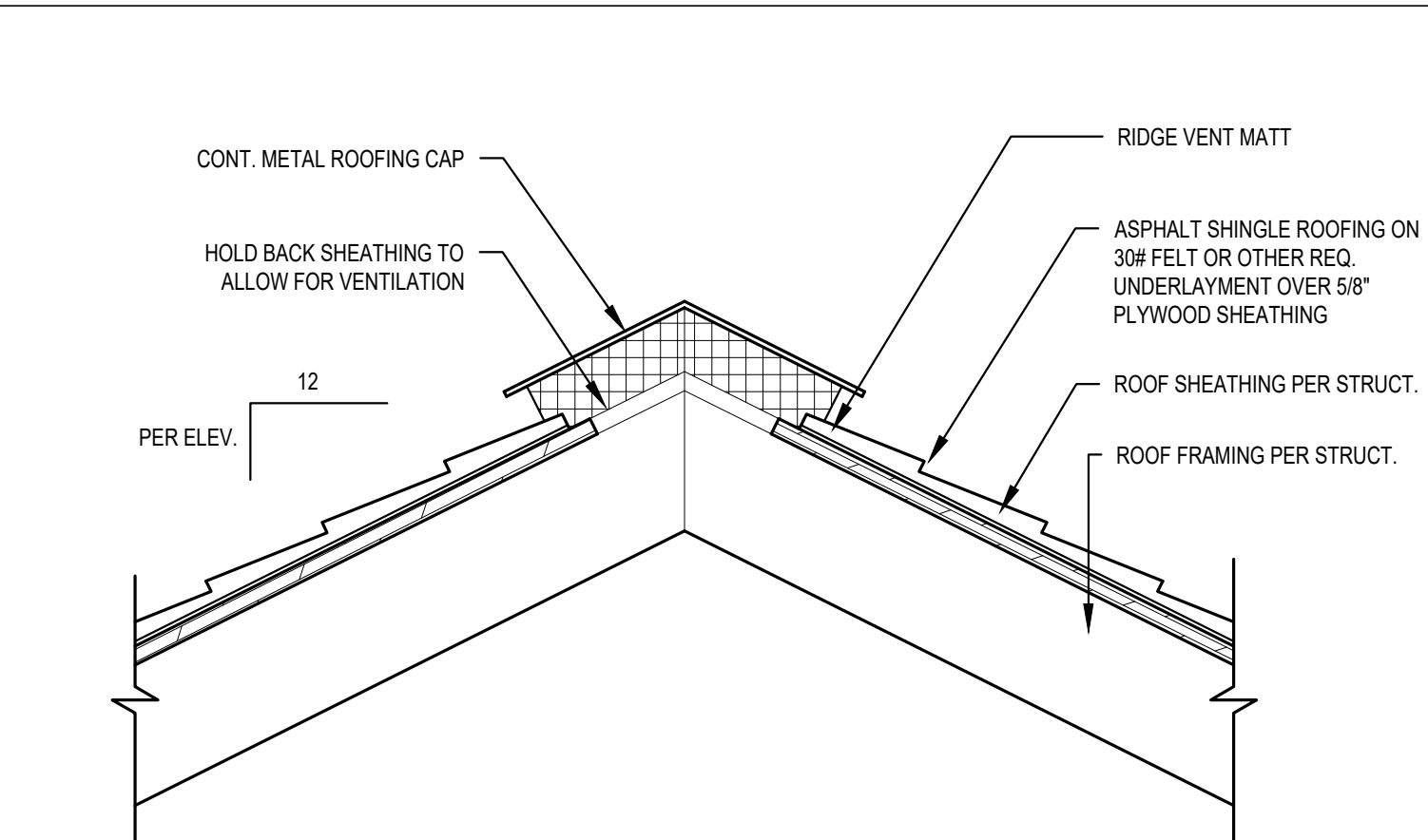
7 TYPICAL EAVE DETAIL
SCALE: 1-1/2" = 1'-0"



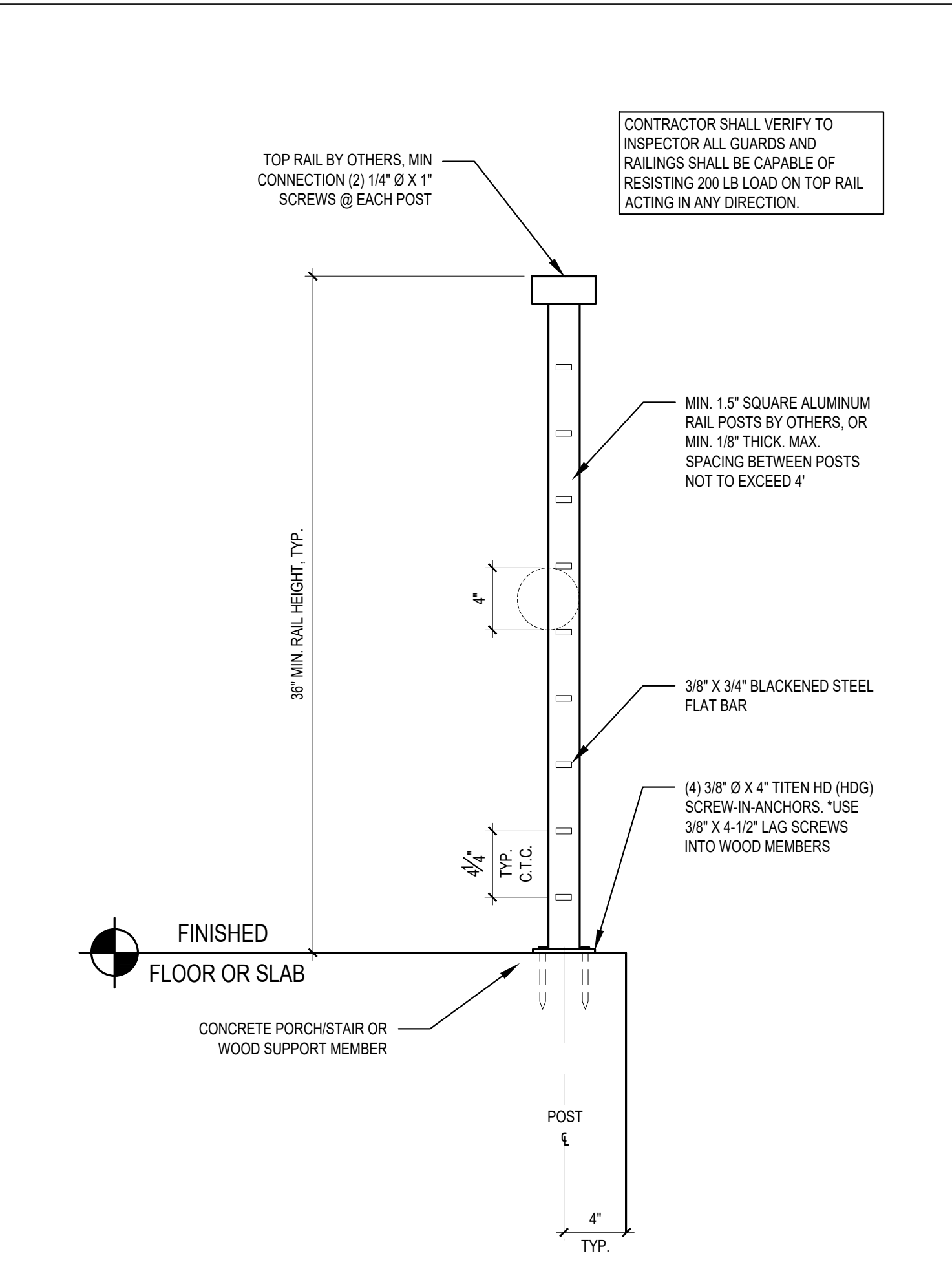
8 THRESHOLD @ DECK SECTION DETAIL
SCALE: 1-1/2" = 1'-0"



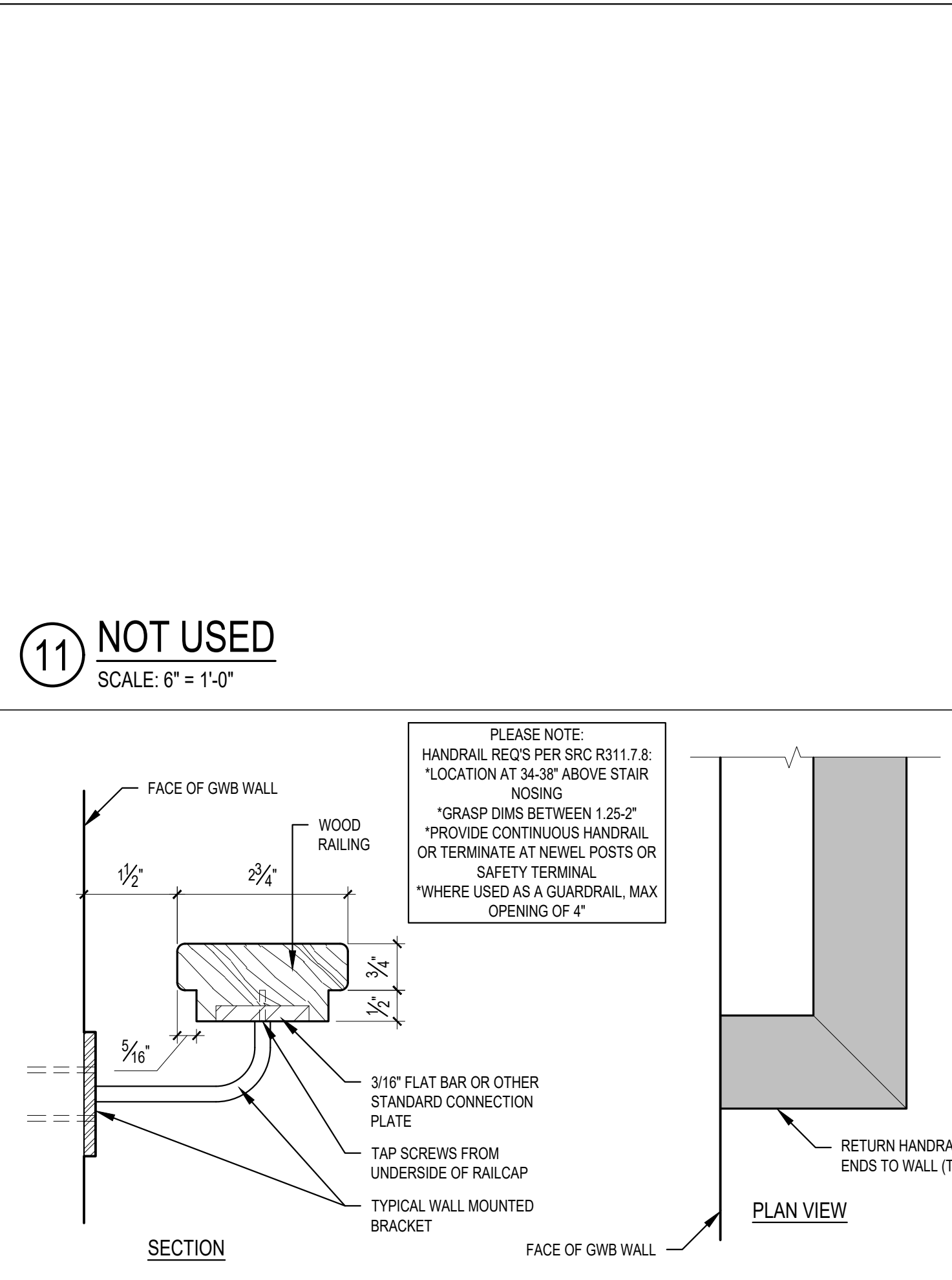
9 TYP. WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



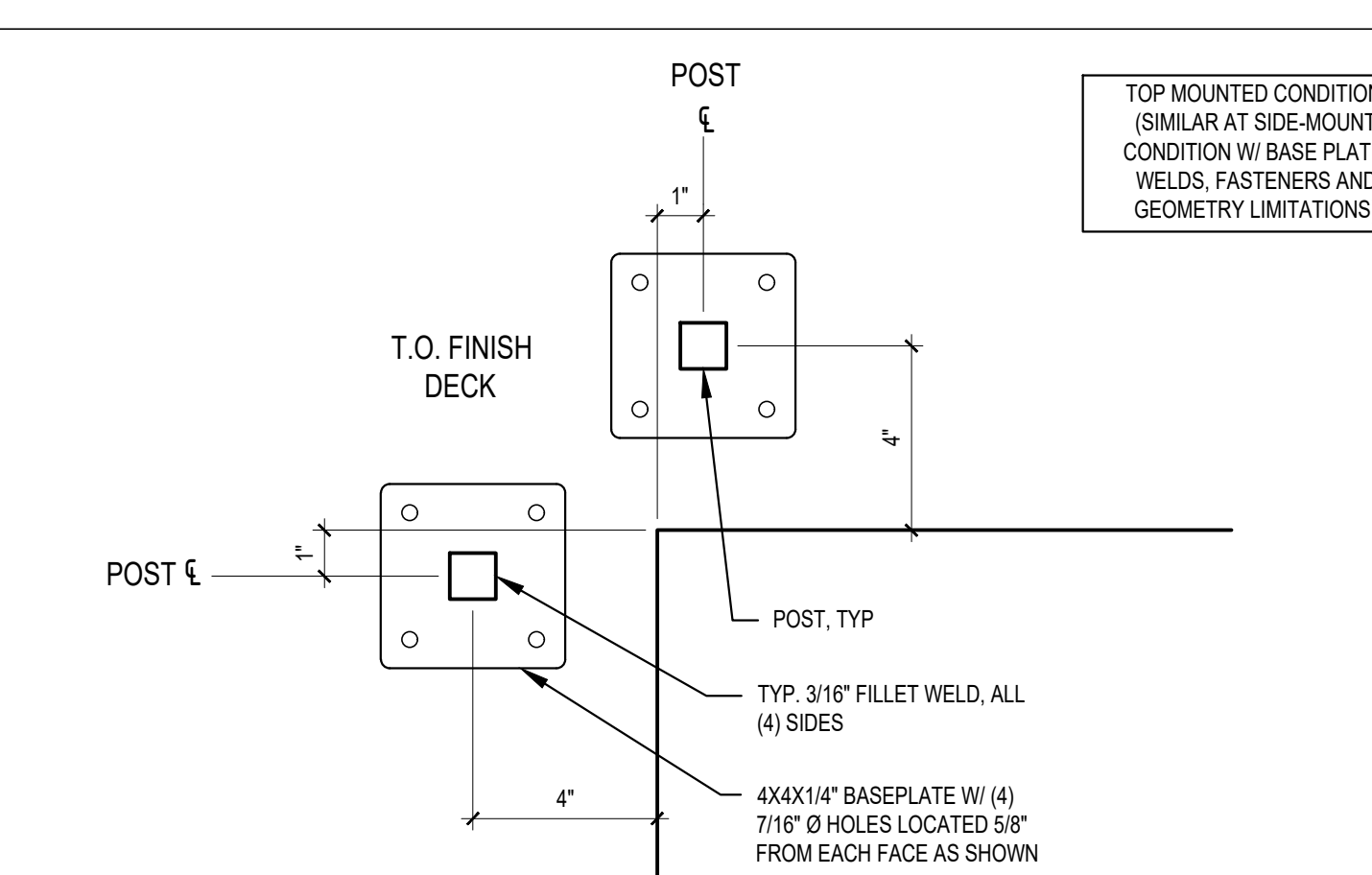
10 TYP. ROOF RIDGE VENT DETAIL
SCALE: 1 1/2" = 1'-0"



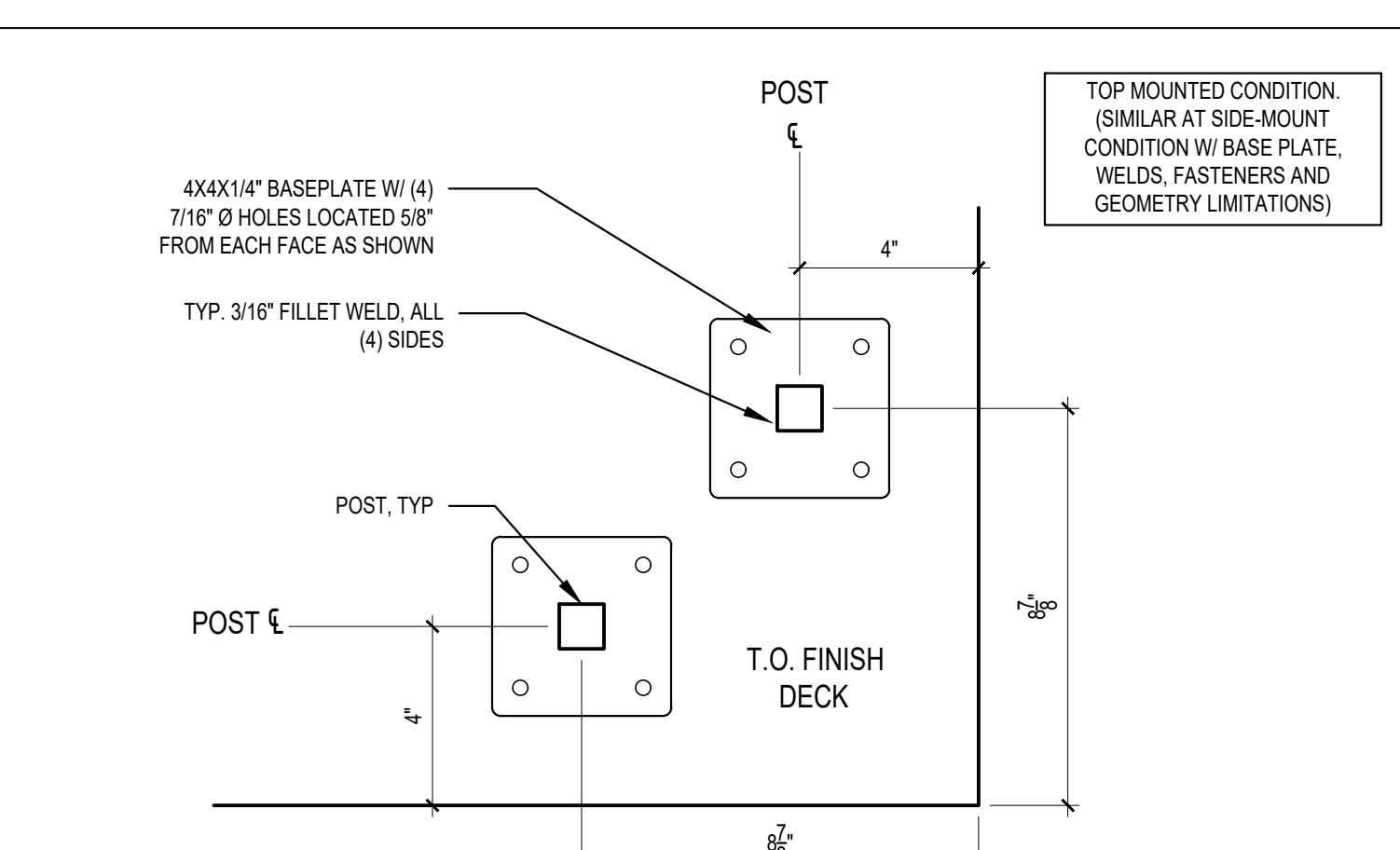
14 RAILING ATTACHMENT - TOP-MOUNTED
SCALE: 1-1/2" = 1'-0"



15 HANDRAIL DETAIL
SCALE: 6" = 1'-0"



12 GUARDRAIL PLATE ATTACHMENT
SCALE: 3" = 1'-0"



13 GUARDRAIL PLATE ATTACHMENT
SCALE: 3" = 1'-0"

STURMAN ARCHITECTS

9-103rd Avenue NE Suite 203
Bellevue, WA 98004
TEL: 425-4517003

REGISTERED ARCHITECT
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STATE OF WASHINGTON

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M. SMERSH RESIDENCE
PERMIT SET
2423 60TH AVE SE
MERCER ISLAND, WA 98040

ARCHITECTURAL DETAILS

REVISIONS:	
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	

A6.0

SCALE: IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY
PERMIT SET 03/31/23 PLOT DATE: 3/30/2023

GENERAL NOTES

- 1.0 GENERAL
1.1 Construction shall conform to the 2018 INTERNATIONAL RESIDENTIAL CODE and all other requirements of authorities having jurisdiction.
1.2 These drawings are the property of O.G. Engineering, PLLC ("Engineer").
1.3 Refer to Architectural Plans for all dimensions and elevations not shown.
1.4 The contractor shall be solely responsible for jobsite and construction safety and compliance with all current safety regulations.
1.5 Utility information is not shown on these drawings.
1.6 All waterproofing and drainage information shown on these drawings is for illustrative purposes only.

2.0 DESIGN BASIS - BUILDING STRUCTURES

- 2.1 Vertical Loads (psf)
Table with columns: Dead, Live, Snow
Truss Roof: 19*, 25, 25
Slick-Framed Roof: 18*, 60, 60
Roof Deck: 14, 40, 40
Upper Floor: 11, 40, 40
Main Floor: 11, 40, 40
*Includes 4psf for solar-ready zones

2.2 Seismic Design Data (per the 2018 IBC)
Risk Category: II
Importance Factor: Ie=1.0
Site Coordinates: 47.5818°N, 122.2136°W
Mapped Spectral Response Acceleration: Ss=1.40, S1=0.49
Site Class: D (per Geotech Engr)
Spectral Response Coefficients: Sds=0.93
Seismic Design Category: D
Main Seismic Force-Resisting System: Wood Structural Panel Shear Walls
Response Modification Factor: R=6.5
Seismic Response Coefficient: Cs=0.14
Redundancy Factor: rho=1.3
Over-strength Factor: Omega=2.5
Analysis Procedure Used: Equivalent Lateral Force Procedure

2.3 Wind Design Data (per the 2018 IBC)
Risk Category: II
Basic Wind Speed: 98 mph
Exposure Category: C
Topographic Factor: 1.00 (Per Mercer Island Wind Load Map)

3.0 INSPECTIONS

The construction work shall be inspected as required by the SRC Section R106. The contractor is solely responsible for understanding the requirements of and coordinating all inspections, observations and testing and ensuring that all work is performed to the satisfaction of the inspector.

4.0 FOUNDATIONS

- 4.1 New foundations have been designed in accordance with recommendations in the Geotechnical Report. The design basis is as follows:
* Allowable Vertical Bearing Pressures:
Dead + Live: 2500 psf
Dead + Live + Short Term: 3325 psf
* Sliding Resistance:
Passive Pressure: 300 pcf
Sliding Friction Coefficient: 0.4

4.2 All site preparation, grading, earthwork and site drainage, including but not limited to sub-grade preparation, foundation and retaining wall excavations, structural fill specifications, compaction requirements, and site drainage installation, shall be performed in accordance with the Geotechnical Report prepared by the Geotechnical Engineer, Geotech Consultants, Inc., dated March 3rd, 2022. The Geotechnical Report is part of the construction documents and a copy may be obtained from the Geotechnical Engineer's office.

5.0 MATERIALS

- 5.1 Wood:
5.1.1 All 2x & 3x sawn lumber shall be Hem Fir grade number 2, and all 4x and larger lumber shall be Doug Fir grade number 1, U.O.N. Mudsills and all sawn lumber in contact with concrete, masonry, ground, exposed to weather or moisture, shall be P.T. Preservative retention levels in P.T. wood shall meet the requirements of the applicable use category in accordance with AWPA U1-16, and shall not exceed those required to comply with AWPA Use Category UC4A. Do not use wood treated with ACZA. Field-cut ends, notches and drilled holes of P.T. wood shall be treated in the field in accordance with AWPA M4. P.T. is not required at naturally decay-resistant (i.e. redwood, cedar etc.) sawn lumber members.
5.1.2 Engineered Wood Framing Members and I-Joists shall be TrusJoist® or approved equal. 'PSL' denotes Parallam 2.2E for beams and 1.8E for posts. 'LSL' denotes Timberstrand 1.55E for members with depth equal to or greater than 9", and 1.3E for members with depth less than 9". 'LVL' denotes Microllam 2.0E. 'TJI' denotes TJI I-joists.
5.1.3 Glulam framing members shall be DF/DF, stress class 24F-1.8E, combination symbol 24F-V8, U.O.N.
5.1.4 All wood framing members shall have 19% maximum moisture content at time of installation.

5.2 Concrete:
Hardrock, normal-weight concrete with a minimum 28-day compressive strength of 3,000 psi for concrete exposed to weather and 2,500psi for concrete not exposed to weather. Slump range shall be 3-5 inches. Maximum aggregate size shall be 1". Maximum water/cement ratio shall be 0.5. Concrete exposed to weather shall be air-entrained with total air content between 5%-7% of total concrete volume.

5.3 Reinforcing Steel Bars:
ASTM A615, Grade 60

5.4 Post-Installed Dowels & Anchors into Existing Concrete & CMU
Epoxy: Simpson SET-3G (Installed & inspected per ICC No. ESR-4057)

5.5 Bolts and Threaded Rods:
5.5.1 Threaded Rod: ASTM F1554 Grade 36
5.5.2 Sill Anchor Bolts: ASTM A307
Bent bar "J" anchor bolts shall have a hook with a 90-degree bend with an inside diameter of three bolt diameters, plus an extension of one and one half bolt diameters at the free end.
5.5.3 Bolts in Timber Connections: ASTM A307
5.5.4 Bolts in Steel Connections: ASTM A325-N (High-Strength)

5.6 Structural Steel:
Wide Flange (W): A992 (Fy = 50 ksi)
Rectangular Tube (HSS): A500 Gr. B (Fy = 46 ksi)
Plate and Bar: A36 (Fy = 36 ksi)

6.0 CONCRETE CONSTRUCTION

- 6.1 Concrete elements shall be constructed in single continuous pours, without construction joints, unless otherwise approved by the Engineer. Reinforcement shall be the longest lengths practical. Splices in rebar are not allowed in footings or walls less than 20 feet long. Lap splices shall be staggered at least 2 ft. in adjacent bars. Where reinforcement or anchor edge distances are noted on the drawings as "clear", the distance shall be taken from the face of reinforcement or anchor to edge of concrete. Cast-in-place reinforcement and anchor bolts shall be installed prior to concrete placement and shall not be "wet-set" into freshly poured concrete.

6.2 Reinforcement installation details, including rebar bends, hooks, splices and development lengths shall be in accordance with the requirements of IRC Section R608.5.4, U.O.N. Concrete materials, forms, mixing and delivery shall be in accordance with the requirements of the IRC Section R404.1.3.3.

6.3 Concrete Coverage over Reinforcing Steel
Unless otherwise noted, maintain the minimum concrete cover to face of reinforcement or anchors as follows:
1) 3" Where concrete is cast against and permanently exposed to earth except slab on grade.
2) 2" Where concrete is exposed to earth but formed, or exposed to weather.
3) 1 1/2" Where concrete is not exposed to earth or weather.

6.4 Slabs on Grade
6.4.1 Crack Control Joints
Cut crack control joints in top of slab @10"-0"o.c. (max.) each way. Joint depth shall be 1/2 of the slab depth or 1", whichever is greater. Joints shall be conventional saw-cut within 4 to 12 hrs of concrete placement, or early-entry saw-cut within 1 to 4 hrs of concrete placement. Jointed panels shall be rectangular, as square as possible, with a max length-to-width ratio of 1 1/2:1.
6.4.2 Slab Sub-Base
Slab sub-base shall be 3/8" to 3/4" clean, crushed drain rock, compacted to a firm and unyielding condition.

7.0 WOOD CONSTRUCTION

- 7.1 General Framing
Connections not specified on these drawings shall conform to the IRC fastening schedule, refer to Table R602.3(1). Depth of all posts in walls shall match stud depth, U.O.N. Block floor joist space solid under posts and cripple studs supporting headers and continue support to foundation. Face nail all plies of multi-ply studs with 10d@6"o.c. Obtain approval from engineer prior to ripping or creating notches or holes in framing members, U.O.N. Install double joists below all interior walls parallel to floor joists and solid blocking below all interior walls perpendicular to floor joists, U.O.N. All beams shall be continuous across supports unless explicitly shown as multiple pieces. Install full depth blocking between framing members over supports, unless otherwise noted. Intall 2x4 blkq btwn adjacent joists/rafters/ trusses @24"o.c. over interior partitions.

7.2 Engineered Wood Framing
See TrusJoist "Installation Guide for Floor and Roof Framing" (TJ-9001) for allowable holes in engineered wood beams. Grade stamp info must be maintained on ripped engineered wood members; refer to TrusJoist Technical Bulletin TB-305 for requirements pertaining to re-sawn engineered wood.

7.3 Fasteners
Nails specified on these drawings are common nails, U.O.N. Fasteners in contact with P.T. wood, exposed to weather or in contact with ground shall be hot-dipped galvanized per SRC Section 317.3, or shall have equivalent corrosion resistance. Dissimilar metals & coatings shall not be in contact. Bolt holes shall be a minimum of 3/8" to a maximum of 1 1/8" larger than the bolt diameter. Bolts shall not be forcibly driven, and shall be tightened to the snug-tight condition. Install standard cut washers under all bolt heads and nuts bearing against wood.

7.4 Connectors
Connectors specified on these drawings are manufactured by the SIMPSON STRONG-TIE® Company. Refer to latest catalog for information not specifically noted herein. Connectors in contact with P.T. wood, exposed to weather or in contact with ground shall be ZMAX or HDG galvanized. All connectors shall receive the maximum number of fasteners, U.O.N. Dissimilar metals & coatings shall not be in contact. Shim gaps in connectors for different framing sizes with plywood as required. Non-field-adjustable hangers specified as sloped or skewed shall be manufactured sloped or skewed.

7.5 Wood Structural Panels
WSPs shall bear the APA trademark and shall meet the requirements of the latest edition of USDOC PS1 or PS2. Use 10d common wire nails to fasten panels with 1 1/2" minimum penetration into framing at all panel edge and field nailing, U.O.N. Nails shall be located at least 3/8" from panel ends and edges. Stagger nails at adjoining panel edges. Drive nail heads flush with panel surface. Maintain 1/8" gap between all adjoining panel edges. Center interior panel joints on framing members or blocking. Provide 1/2" space between untreated panel and concrete or masonry. Minimum panel dimension shall be 2'-0". Panel storage and handling during transport and construction shall be in accordance with APA recommendations and shall protect the panels from prolonged exposure to moisture from rain, snow, ground or other sources. WSPs permanently exposed to weather shall be exterior grade.

7.6 Shear Walls and Exterior Wall Sheathing
7.6.1 Shear walls are noted on the plans. Shear walls shall be sheathed with 1/2" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of 3 1/2/6, U.O.N. Panels shall not be less than 4'-0" x8'-0", except at boundaries and changes in framing. Panels shall be laid with strength axis vertical. Install 2x blkq under all unsupported panel edges; all panel edges shall be supported by and fastened to min. 2x common studs or blocking, U.O.N. on shear wall schedule. Edge nail panels to posts within shear walls. Install double stud or min. 4x post at the ends of all shear walls. Provide solid blocking under double studs & posts between floors and continue support to foundation. See shear wall schedule for more information.
7.6.2 WSP Wall Nailing, U.O.N.:
Panel Edge Nailing: 10d@6"o.c. maximum.
Intermediate (Field) Nailing: 10d@12"o.c. maximum.
7.6.3 All new exterior walls not called out as shear walls shall be sheathed on their exterior face with 1/2" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of 3 1/2/6 and nailing per note 7.6.2., U.O.N. All other fasteners & requirements shall conform to the shear wall schedule for wall type (1).

7.7 Holdowns and Tiedown Straps
Holdowns and tiedown straps shall be attached to double studs or min. 4x posts, U.O.N. See latest Simpson Catalog for additional requirements not noted herein. See holdown schedule for anchor bolt sizes and additional specifications. Refer to note 7.1 for nailing and framing requirements at holdown/tiedown posts. Install solid post at shear wall corners or intersections where holdowns/tiedowns occur. All holdowns/tiedowns shall have the maximum number of fasteners.

7.8 Sill Anchor Bolts
There shall be a minimum of two sill anchor bolts per piece with one bolt located not more than 12" or less than 4 1/2" from each end of each piece. Holes in sills for bolts shall not be oversized. Sill anchor bolts shall be 3/8" dia with 7" min. embed. into concrete. Sill anchor bolts into existing concrete shall be all-thread rod, drill and epoxy. See shear wall schedule for spacing of sill anchor bolts in shear walls. Maximum sill anchor bolt spacing at non-shear-walls shall be 6'-0"o.c. at interior walls and 4'-0"o.c. at exterior walls. All sill anchor bolts at shear walls and mudsills shall be installed with 0.229"x3"x3" steel plate washers. Edge of sill anchor bolt plate washers shall be located 1/2" max. from inside face of wall sheathing or rim joist where occurs.

7.9 Floor and Roof Sheathing

- 7.9.1 Wood structural panel sheets at floors and roofs shall be laid with strength axis perpendicular to supports and continuous over two or more spans, unless otherwise noted on drawings. Stagger adjacent panels 4'-0"o.c. lengthwise.

7.9.2 Unless otherwise noted, typical roof sheathing shall be unblocked 3/8" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of 40/20. Panels shall be fastened to framing members with 10d nails @6"o.c. at all supported panel edges and 10d nails @12"o.c. intermediate (field) nailing. Install 'PSCL' sheathing clips (one mid-way between each support) at all unsupported panel joints.

7.9.3 Unless otherwise noted, typical floor sheathing shall be unblocked 1/2" APA RATED STURD-I-FLOOR EXPOSURE 1 WSPs with a span rating of 48/24 and T&G edges. Panels shall be fastened to framing members with 10d nails @6"o.c. at all supported panel edges and 10d nails @12"o.c. field nailing. Glue sheathing to all supports (including blocking) with 1/4" minimum beads of approved adhesive meeting APA specification AFG-01.

7.10 Metal-Plate-Connected Wood Trusses
7.10.1 The design, manufacture and installation of trusses shall be in accordance with the requirements of ANSI/TPI 1 and the IRC Section R502.11.
7.10.2 Trusses, structural fascia, their connections to other trusses/fascias, and truss eave blocking are the design responsibility of the supplier, and shall be designed by a civil or structural engineer licensed in the State of Washington ("Truss Designer"). Trusses shall be designed to support the following specific unfactored loads in addition to their self-weight:
Vertical Roof Loads - Top Chord
*Dead: 15 psf (Does not include truss self-weight)
*Snow: 25 psf
*Wind: -51 psf (uplift)
Vertical Ceiling Loads - Bottom Chord
*Dead: 5 psf (Does not include truss self-weight)
*Live: 10 psf (Does not act concurrently with roof live load)
Lateral Drag Truss Loads
Drag trusses shall be designed for a uniform unfactored seismic load acting longitudinally along the entire top chord length, and for a longitudinal reaction acting at the location at which the bottom chord is strapped to the adjacent collector element. The magnitude of the uniform top chord load and concentrated bottom chord load are indicated on plan. The bottom chord strap location is indicated on plan.

7.10.3 Trusses shall not rely on interior walls for support, U.O.N.; trusses shall be designed to span between exterior bearing walls.

7.10.4 Trusses shall be braced to provide lateral stability and prevent rotation in accordance with the SBCA BCSI "Guide to Good Practice for Handling, Installing and Bracing of Metal-Plate-Connected Wood Trusses". Bracing shall be designed and specified by the truss designer.

7.10.5 Trusses and their connections shall not be notched, cut, spliced or otherwise altered or damaged in any way without the prior written consent of both the E.O.R. and truss designer.

7.10.6 Truss design drawings and calculations, prepared by a civil or structural engineer licensed in the State of Washington in accordance with the SRC Section R502.11.4, shall be submitted to the contractor, architect, engineer and local building official for review and acceptance prior to fabrication, and shall be provided with the shipment of trusses to the job site.

7.10.7 Attach top plates of interior, non-bearing partition walls to truss bottom chords with 'STC' clips, leaving a 1/4" to 1/2" vertical gap between bottom of truss and top of plate. Attach adjacent gypsum board ceiling to top plate with 'DS' clips. Do not fasten gypsum board ceiling to truss bottom chord within 16" of top plate.

ABBREVIATIONS

Table with 2 columns: Symbol and Description. Includes symbols like @, ADJ., ALT., ARCH., A.T.R., B.F., BLKG, BLW., BM, BOTT., C.I.P., C.J., CLR., CONT., CSK., DBL., DF., DIM., D.J., D.R., E.J., ELEV., EMBED., ENGR., E.N., E.O.R., EQ., E/W, (E), F.J., F.N., FTG, G.L., GLB, G.C., H.D.G., HDR, HF, IBC, INV., IRC, K.D., LOCN, MAX., MANUF., M.B., MIN., NSFC, N.T.S., o/, o.c., O/H, OPNG, PL, PSF, PT, QUAD., REQ'D, RFT, R.R., R.W., S.A.D., S.O.G., SIM., SQ., STD, S.W.S., T.B.D., T&B, T&G, TYP., TRPL., T.O., U.O.N., U/S, u/, V.I.F., W.R.C., W.P., WSP.

PERMIT SET table with columns: REV, DATE, DESCRIPTION. Includes entries for 12-14-22 PERMIT SET and 12-14-22 PERMIT SET.

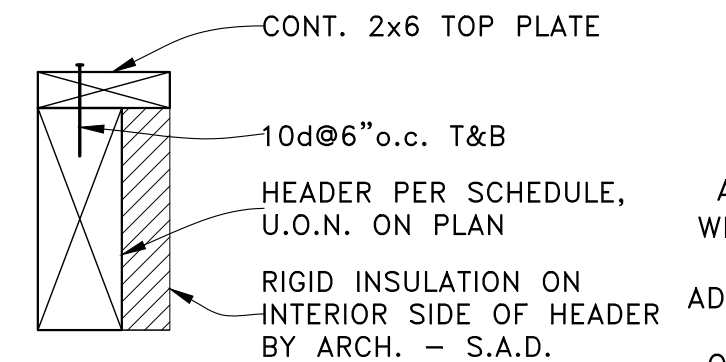
PROJECT: NEW SINGLE-FAMILY DWELLING
2423 60th Ave SE
Mercer Island, WA 98040
CLIENT: Mary Smeresh
2423 60th Ave SE
Mercer Island, WA 98040



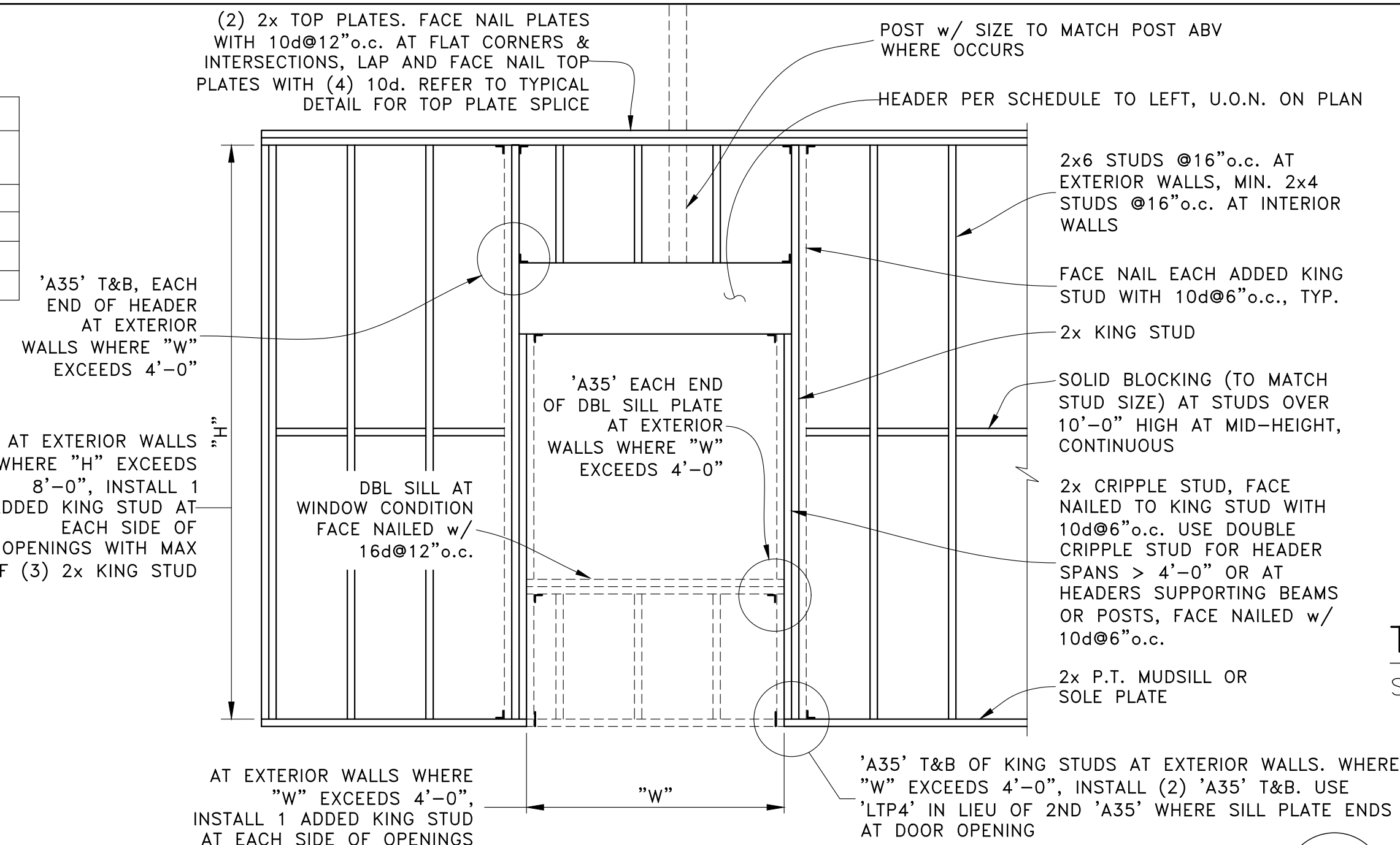
O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
ogoven@ogengineer.com
SHEET TITLE: GENERAL NOTES

Table with 2 columns: SCALE and SHEET NO. SCALE: AS NOTED. SHEET NO: 51. JOB NO: 22004.

HEADER SCHEDULE, U.O.N.	
"W" MAX. OPENING	MIN. HEADER
4'-0"	4x6
6'-0"	4x8
8'-0"	4x10
10'-0"	4x12

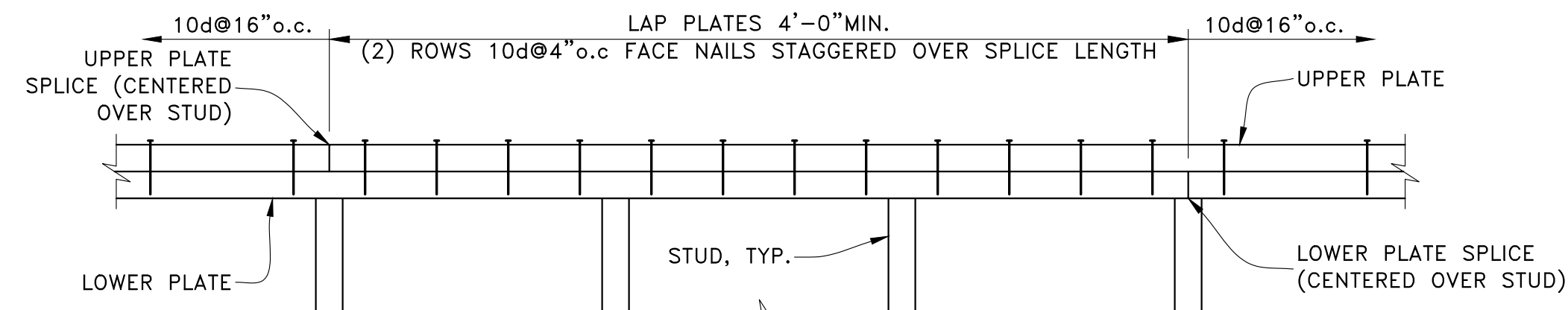


EXTERIOR HEADER @ 2x6 WALLS



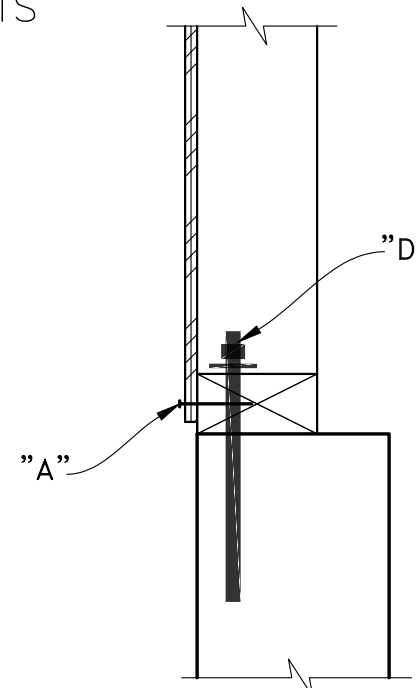
TYPICAL STUD WALL FRAMING

SCALE: NTS

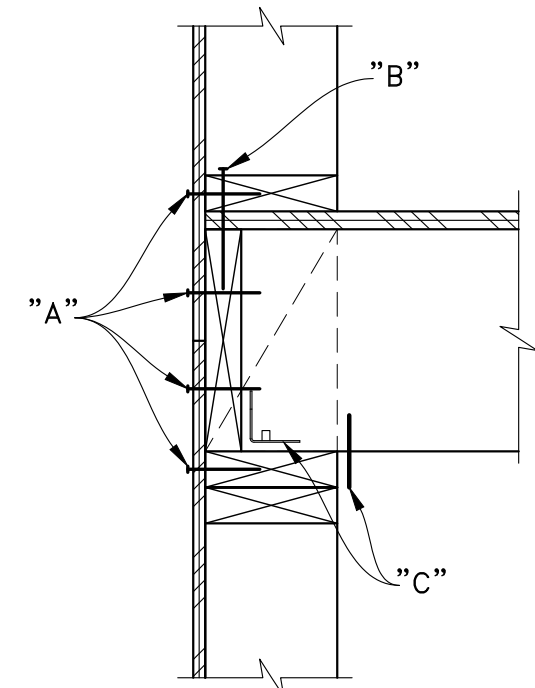


TYPICAL DOUBLE TOP PLATE SPLICE

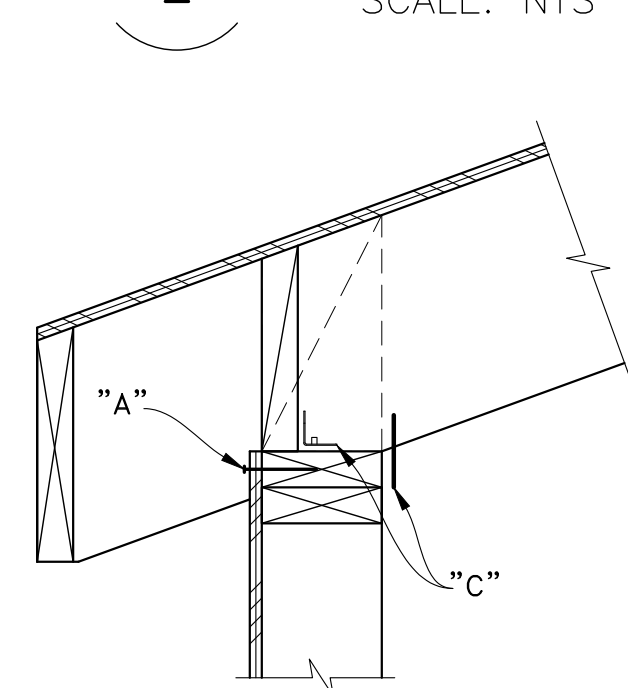
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FOUNDATION LEGEND



UPPER FLOOR LEGEND



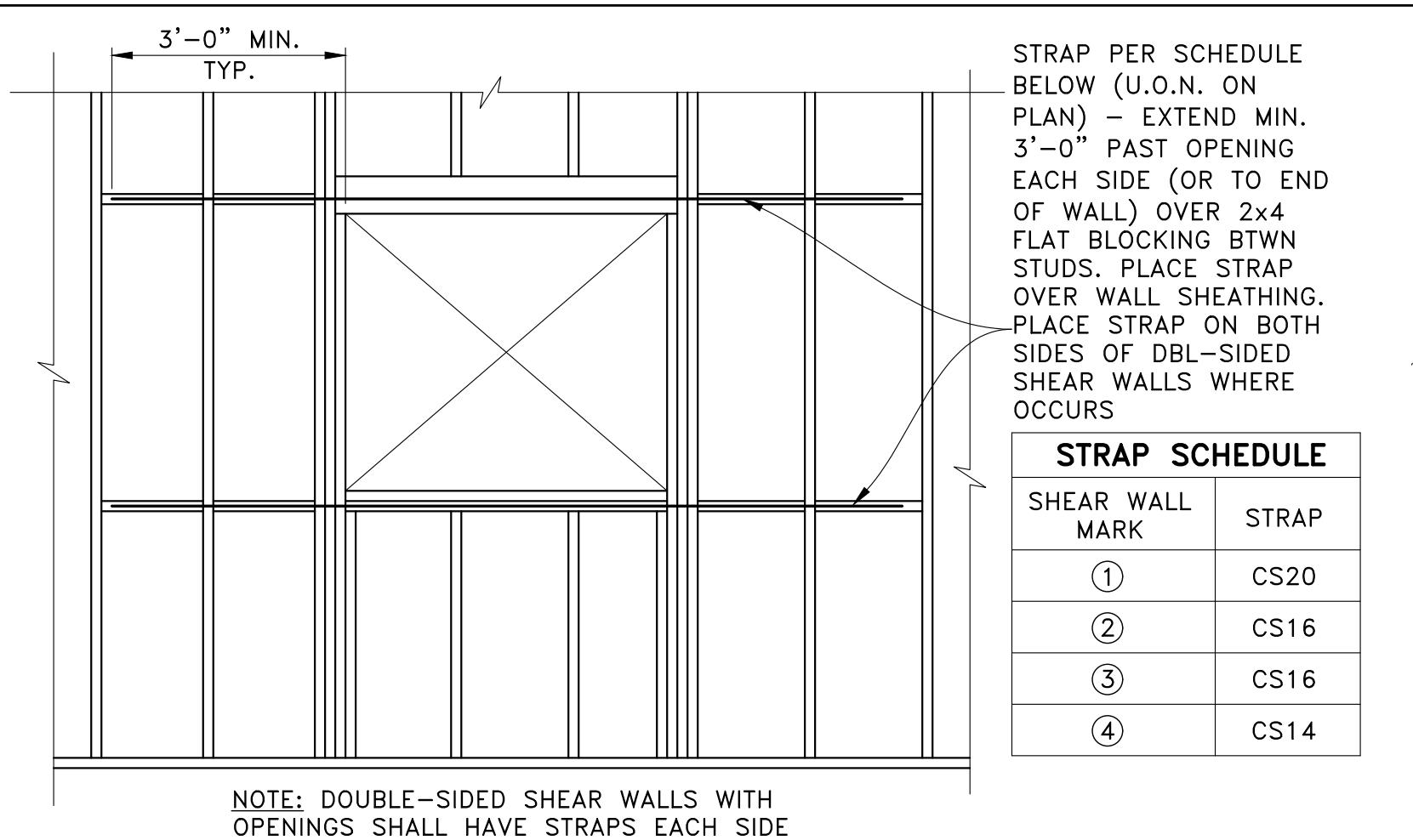
ROOF LEGEND

SHEAR WALL SCHEDULE (1/2" SHEATHING-RATED WOOD STRUCTURAL PANELS)							
SHEAR WALL MARK	CAPACITY (PLF)	EDGE NAILING "A"	FIELD NAILING	FRAMING AT ADJOINING PANEL EDGES	SOLE PLATE FASTENERS "B"	FRAMING CLIPS "C"	SILL ANCHOR BOLT SPACING - "D"
①	310	10d@6"o.c.	10d@12"o.c.	2x NOMINAL	'SDS25600' @ 8"o.c. ⁴	'A34' OR 'LTP4' @ 16"o.c. ⁵	4'-0"o.c. ⁶
②	460	10d@4"o.c.	10d@12"o.c.	2x NOMINAL	'SDS25600' @ 8"o.c. ⁴	'A34' OR 'LTP4' @ 8"o.c. ⁵	2'-8"o.c. ⁶
③	600	10d@3"o.c. ¹	10d@12"o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 8"o.c. ⁴	'A34' OR 'LTP4' @ 8"o.c. ⁵	2'-8"o.c. ⁶
④	770	10d@2"o.c. ¹	10d@12"o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4"o.c. ⁴	'A34' OR 'LTP4' @ 8"o.c. ⁵	1'-4"o.c. ⁶
DBL SIDED ②	920	10d@4"o.c. ¹	10d@12"o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4"o.c. ⁴	'A34' OR 'LTP4' @ 4"o.c. ⁵	1'-4"o.c. ⁶
DBL SIDED ③	1200	10d@3"o.c. ¹	10d@12"o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4"o.c. ⁴	'A34' OR 'LTP4' @ 4"o.c. ⁵	1'-4"o.c. ⁶
DBL SIDED ④	1540	10d@2"o.c. ¹	10d@12"o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 3"o.c. ⁴	'A34' OR 'LTP4' @ 4"o.c. ⁵	8"o.c. ⁶

- NOTES
- 1) STAGGER ROWS OF EDGE NAILING 1/2" APART. ON DBL SIDED WALLS, STAGGER EDGE NAILS ON PANELS ON OPPOSITE SIDES OF WALL.
 - 2) NAILING TO ALL INTERMEDIATE FRAMING MEMBERS IN FIELD OF PANEL
 - 3) PANEL EDGE NAILING SHALL BE STAGGERED. 2-2x FRAMING MEMBERS SUPPORTING PANEL EDGES SHALL BE FACE NAILED WITH 10d, SPACING TO MATCH PANEL EDGE NAILING, STAGGERED. STAGGER PANEL EDGES IN OPPOSITE PANELS MIN. 2'-0" APART ON DBL SIDED SHEAR WALLS.
 - 4) SCREWS SHALL HAVE MIN. 2" PENETRATION INTO RIM JOIST/ BLOCKING - USE LONGER SCREWS IF NECESSARY.
 - 5) FRAMING CLIPS ARE ONLY REQUIRED WHERE SPECIFIED ON FRAMING DETAILS.
 - 6) SEE GENERAL NOTES 7.6 & 7.8 FOR MORE INFORMATION.

SHEAR WALL SCHEDULE (S.W.S.)

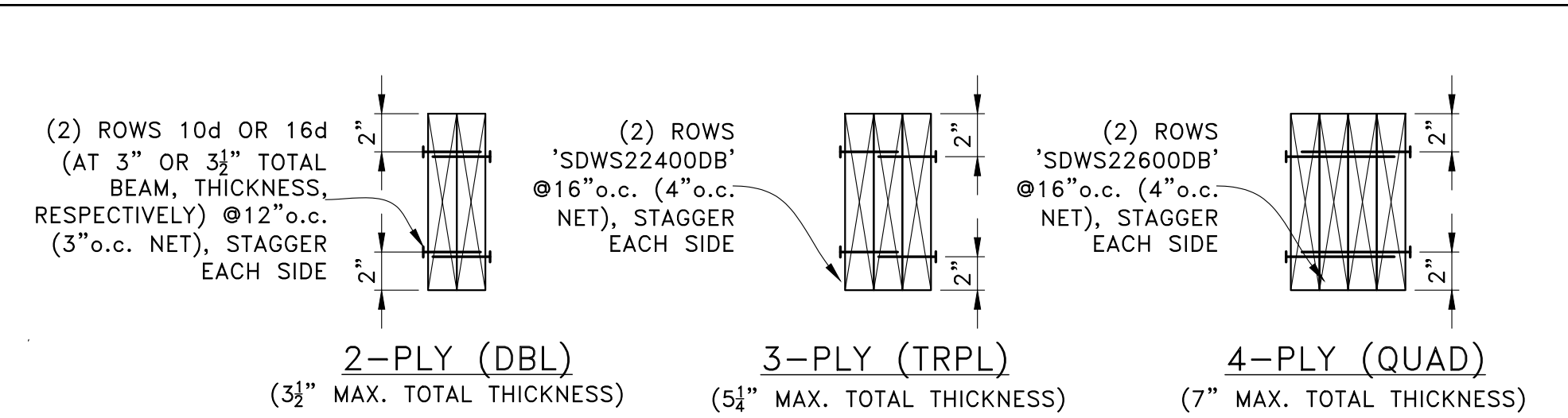
SCALE: NTS



TYPICAL SHEARWALL STRAP AROUND OPENINGS

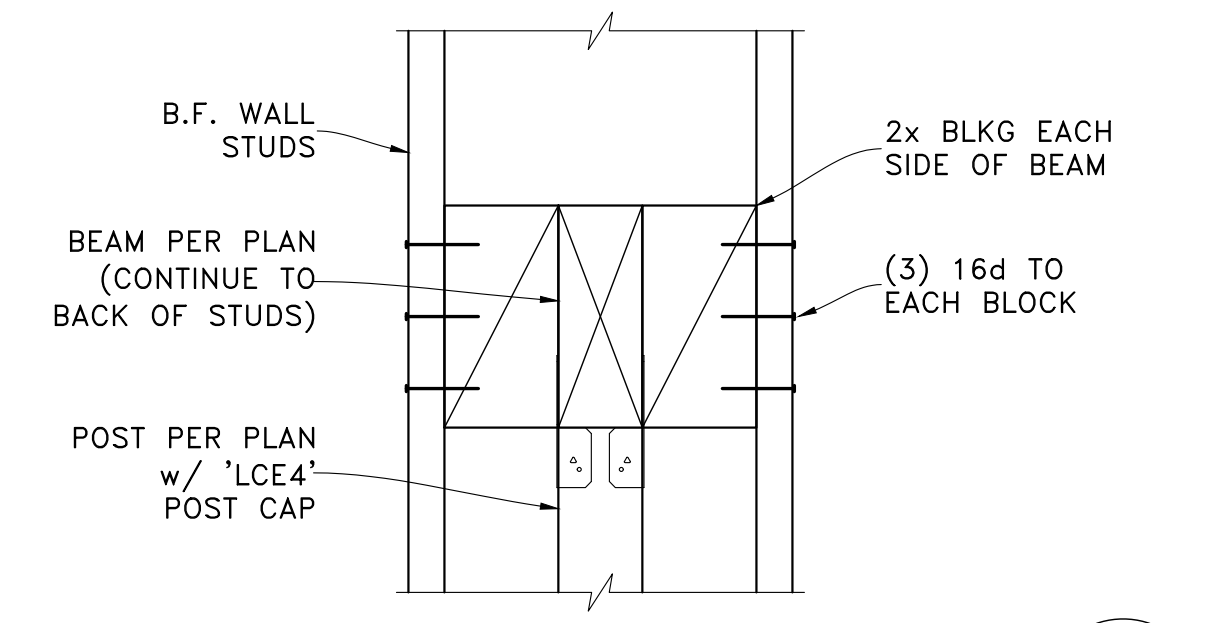
SCALE: NTS

STRAP SCHEDULE	
SHEAR WALL MARK	STRAP
①	CS20
②	CS16
③	CS16
④	CS14



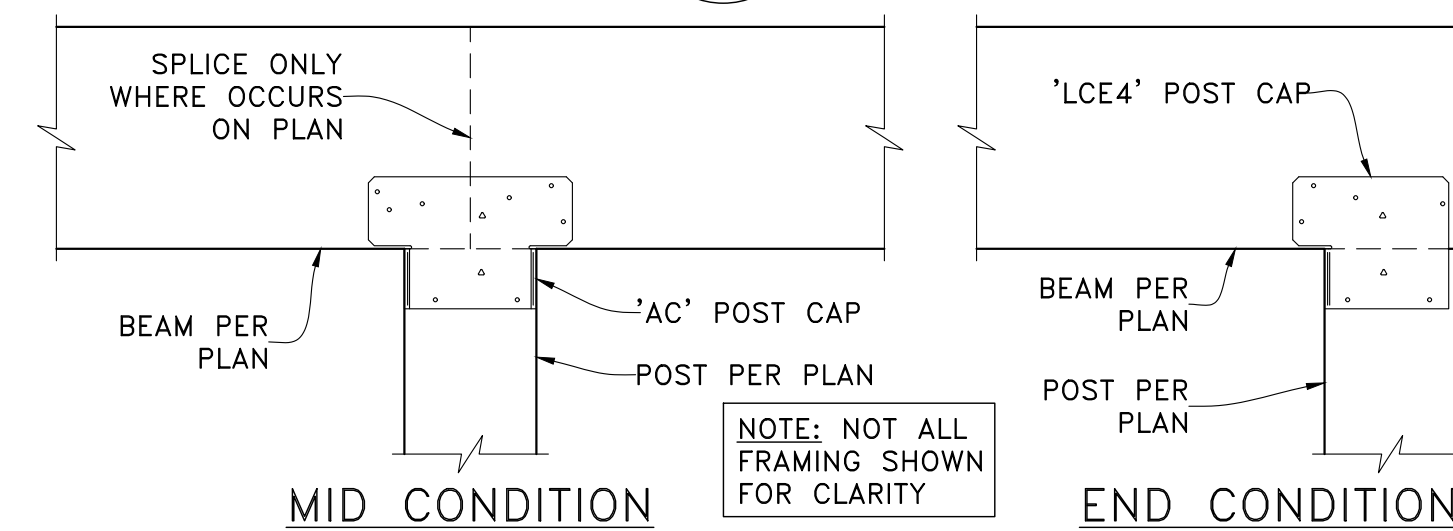
TYPICAL MULTI-PLY BEAM FASTENING

SCALE: NTS



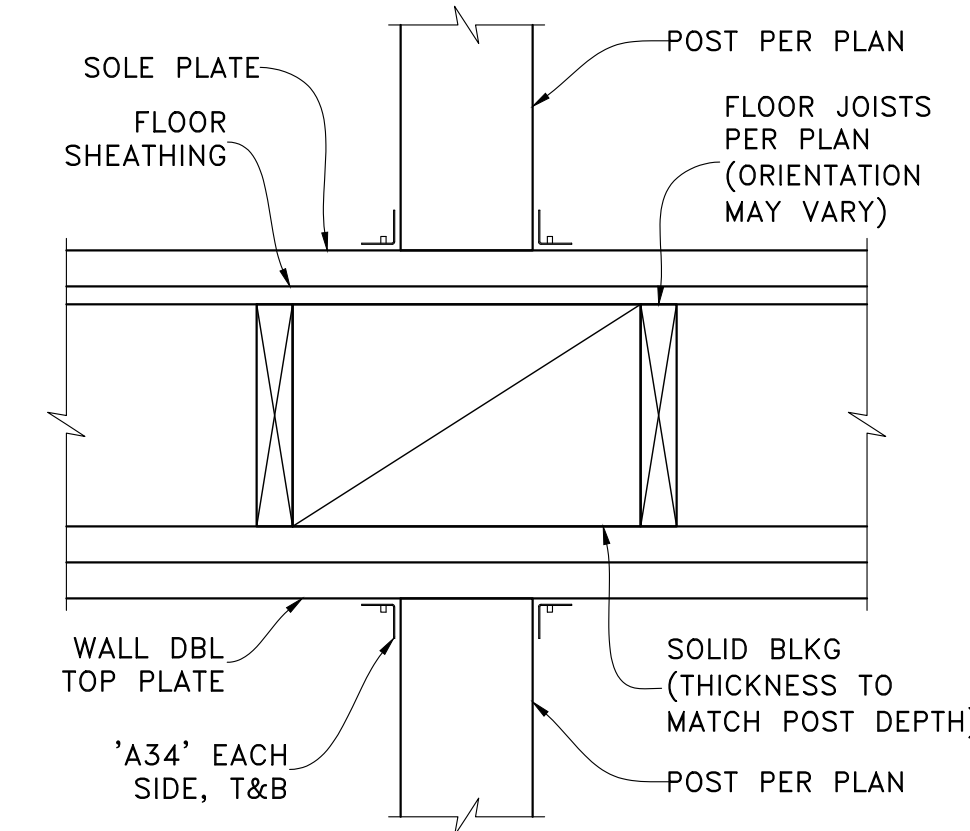
POST IN BALLOON-FRAMED WALL

SCALE: NTS



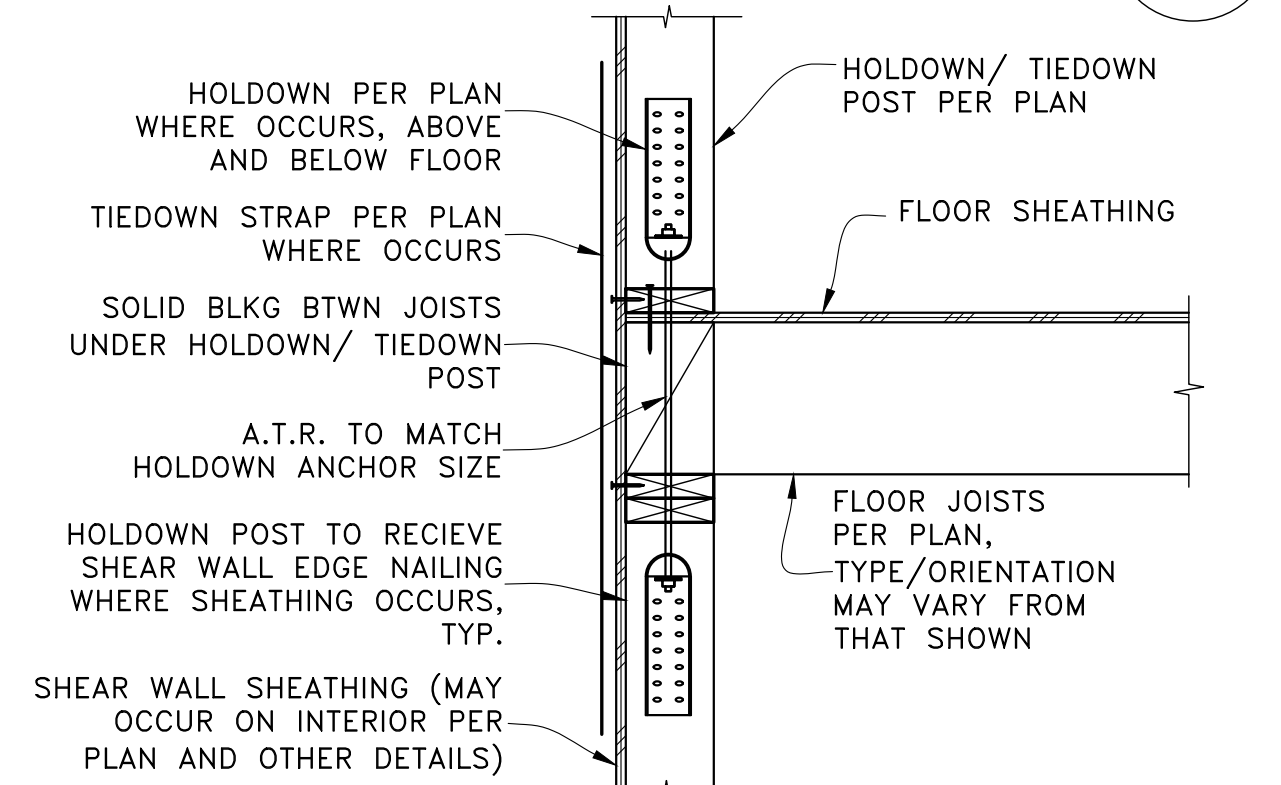
BEAM TO ISOLATED POST

SCALE: NTS



POST IN WALL AT FLOOR

SCALE: NTS

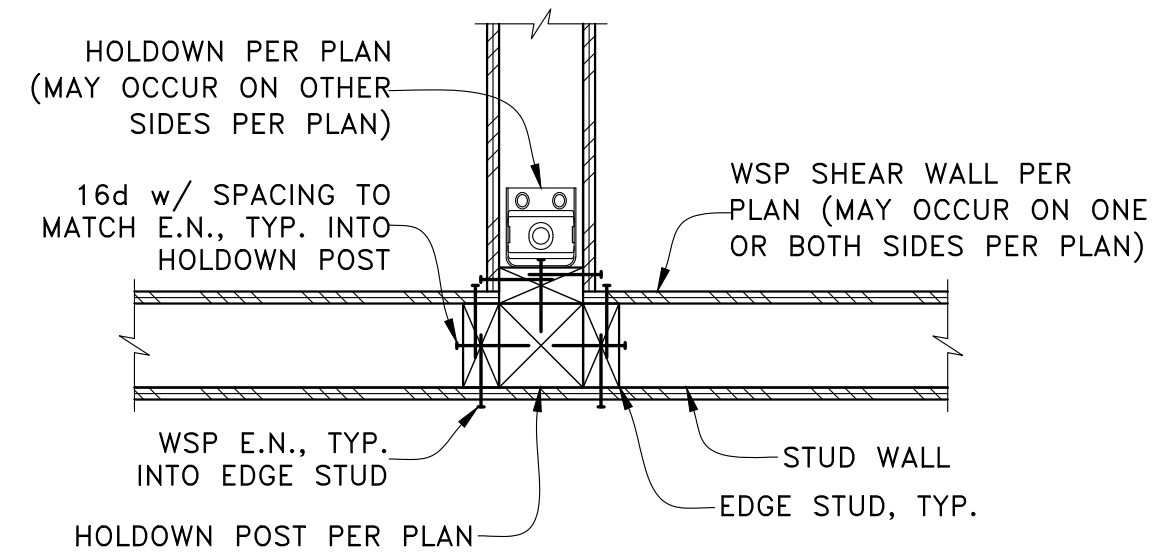


TYPICAL UPPER FLOOR HOLDOWN OR TIEDOWN STRAP

SCALE: NTS

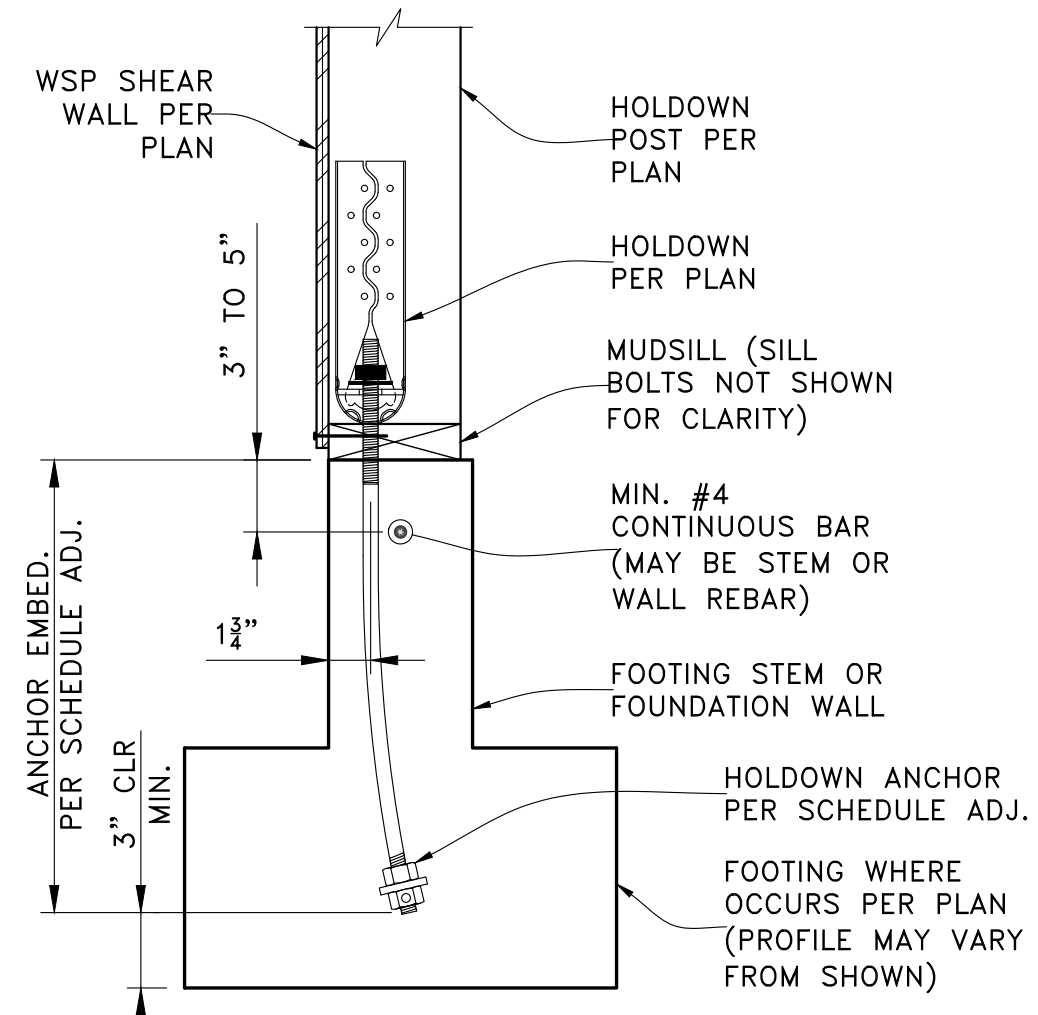
HOLDOWN SCHEDULE		
HOLDOWN	ANCHOR	ANCHOR EMBEDMENT
HDU2	SB8x24	18"
HDU4	SB8x24	18"
HDU5	SB8x24	18"
HDU8	SB8x24	18"
HDU11	SB1x30	24"

- NOTES:
- 1) SEE GENERAL NOTE 7.7 FOR ADDITIONAL HOLDOWN SPECIFICATIONS NOT NOTED HEREIN.
 - 2) NOT ALL FOUNDATION REINFORCEMENT SHOWN FOR CLARITY (REFER TO OTHER DETAILS)



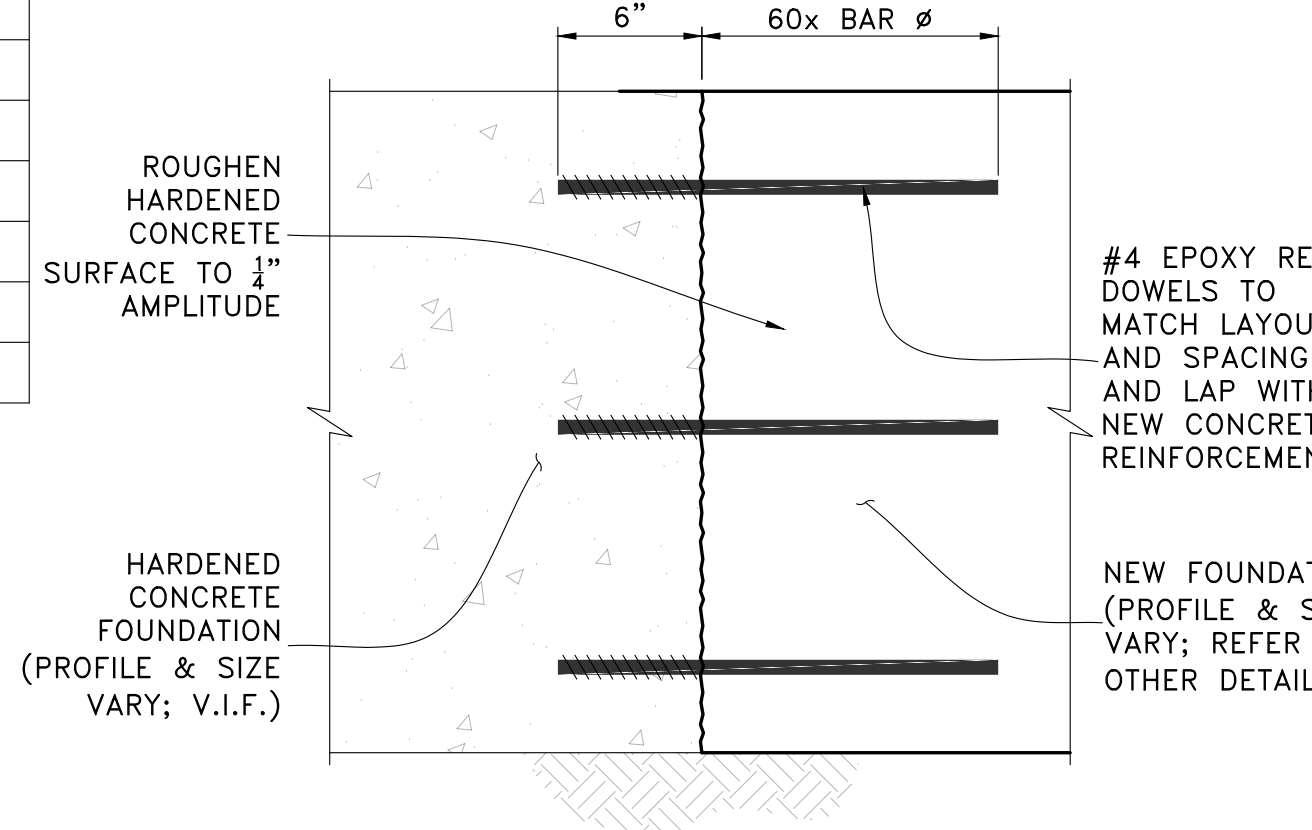
HOLDOWN AT CORNER

SCALE: NTS



TYPICAL HOLDOWN AT FOUNDATION

SCALE: NTS



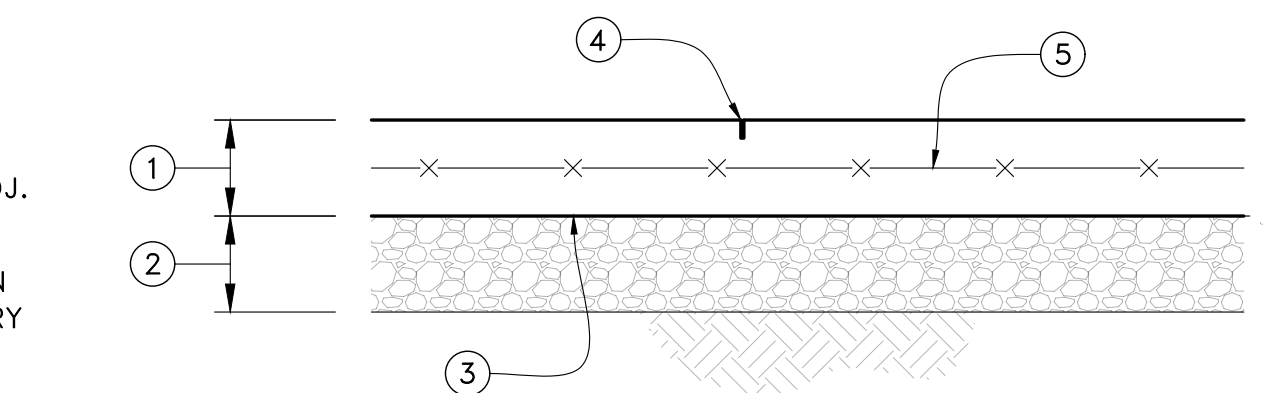
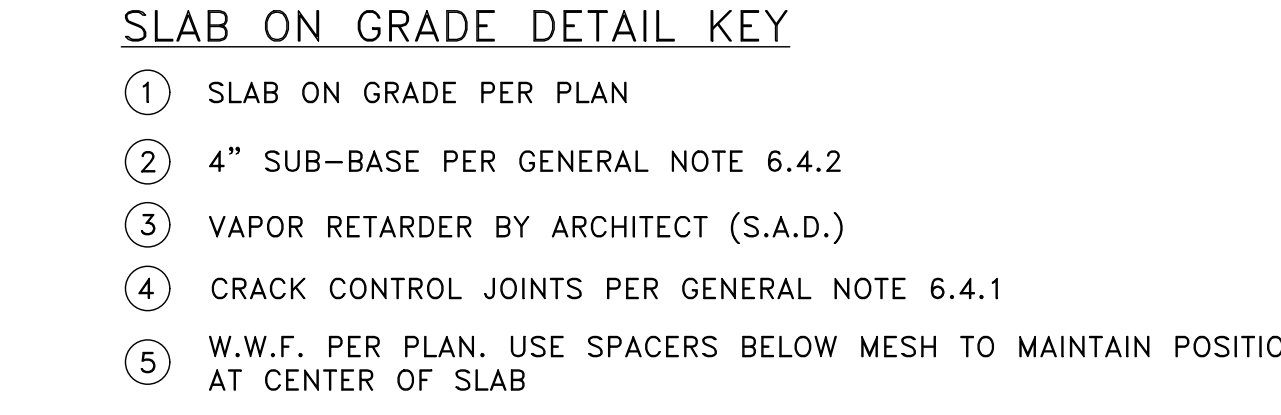
TYPICAL FRESH TO HARDENED CONCRETE

SCALE: NTS



TYPICAL SLAB ON GRADE

SCALE: NTS



TYPICAL SLAB ON GRADE

SCALE: NTS

PERMIT SET	
REV	DATE
12-14-22	PERMIT SET

PROJECT: NEW SINGLE-FAMILY DWELLING
2423 60th Ave SE
Mercer Island, WA 98040

CLIENT: Mary Smeresh
2423 60th Ave SE
Mercer Island, WA 98040



ENGINEER OF RECORD

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(206) 290-4608
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TYPICAL DETAILS	
SCALE:	SHEET NO.
AS NOTED	S2
JOB NO. 22004	

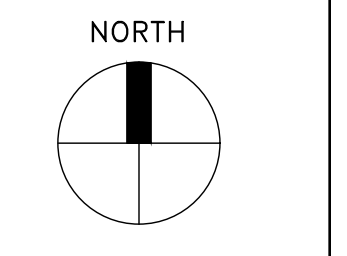
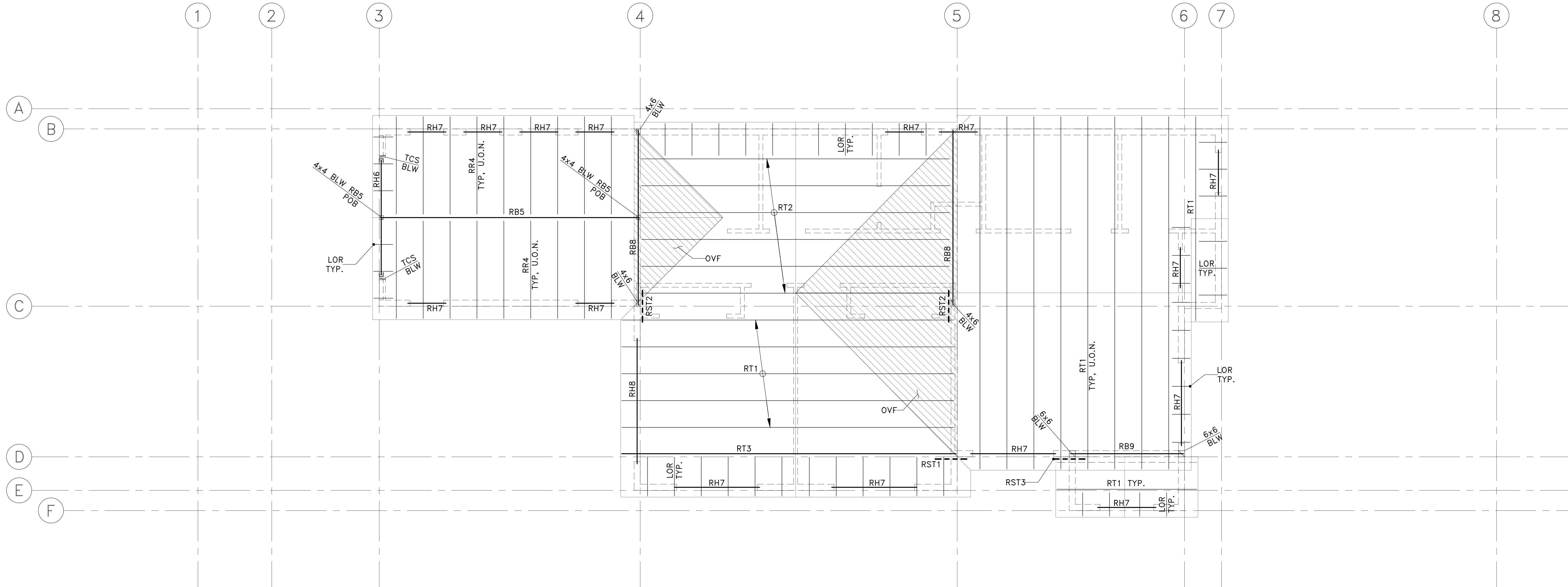
PLAN LEGEND

	STUD WALL ABOVE ROOF		
	WALL BELOW ROOF		
	POST BELOW ROOF PER (E-F) S2		
	OVER-FRAMING PER (K) S8		
	METAL STRAP PER PLAN (PLACE o/ SHEATHING WHERE OCCURS). E.N. ROOF SHEATHING TO FULL LENGTH OF ATTACHED BEAMS & JOISTS WHERE OCCURS		
RST1	'MSTC40' STRAP U/S DRAG TRUSS TO T.O. TOP PLATE, E.N. ROOF SHEATHING TO FULL LENGTH OF DRAG TRUSS TOP CHORD PER (I) S8 SIM		
RST2	'MSTC40' STRAP U/S BEAM TO T.O. ABUTTING TOP PLATE PER (I) S8		
RST3	'MSTA30' STRAP T.O. DROPPED BEAM TO T.O. ABUTTING TOP PLATE		
LOR	LOOKOUT RAFTER PER (E) S8 (B) S9		
POB	POST BEARS ON T.O. BEAM w/ INV. 'AC' BASE		
TCS	1 1/2 x 5 1/2 LVL CRIPPLE STUD (SUPPORTS TRANSOM HEADER) w/ 16d@6" o.c. FACE-NAIL TO SIDE OF WSW		FLUSH-FRAMED JOIST OR BEAM CONNECTION; SEE FRAMING SCHEDULE FOR HANGERS, U.O.N. ON PLAN OR DETAILS (JOIST HANGERS NOT SHOWN ON PLAN FOR CLARITY)
			JOIST OR BEAM BEARING ON DROPPED BEAM OR HEADER (BEARING WALL SIM). POST DOWN TO HEADER WHERE OCCURS (POST WIDTH TO MATCH BEAM, NOT SHOWN FOR CLARITY). INSTALL FULL-DEPTH BLKG EACH SIDE OF JOIST OR BEAM OVER SUPPORT

FRAMING SCHEDULE

CALLOUT	JOIST/BEAM	HANGER (U.O.N. ON PLAN)	REFER TO DETAIL(S) (OR SEE NOTES BLW)
RT1*	COMMON GABLE TRUSSES @24"o.c.	N/A	(A-B) S9
RT2*	COMMON GABLE TRUSSES @24"o.c.	BY SUPPLIER	(A-B) S9
RT3*	GABLE DRAG TRUSS	N/A	(B) S9 UNIFORM TOP CHORD LOAD = 250 PLF CONCENTRATED BOTTOM CHORD LOAD AT RST1 = 6000 LBS
RR4	2x12 @24"o.c.	LRU212Z	(D-E) S8
RB5	3 1/2 x 11 1/8 PSL (FLUSH RIDGE)	N/A	(G) S8
RH6	3 1/2 x 9 PSL (HEADER BTWN DOOR & TRANSOM WINDOWS)	HUCQ410 (TO SIDE OF WSW)	BEARS ON T.O. TCS & HANGS OFF WSW. INSTALL RH7 ABOVE TRANSOM WINDOWS.
RH7	4x8 (DROPPED EXTERIOR HEADER)	N/A	(A) S2
RB8	3 1/2 x 11 1/8 PSL (UPSET, U/S FLUSH w/ PLATE HEIGHT)	N/A	BEVEL TOP OUTSIDE CORNERS 3" MAX. AS REQ'D TO FIT IN EAVES
RB9	5 1/2 x 7 1/2 GLB (DROPPED, TOP FLUSH w/ PLATE HEIGHT)	N/A	N/A

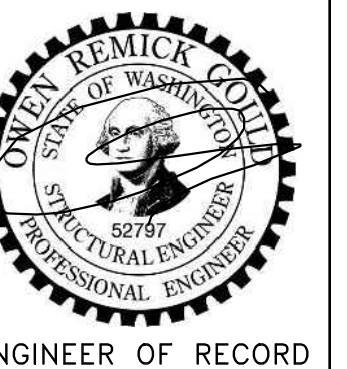
*ALL METAL-PLATE CONNECTED WOOD TRUSSES, STRUCTURAL FASCIAS AND THEIR CONNECTIONS TO OTHER MEMBERS ARE DESIGN-BUILD BY TRUSS SUPPLIER. REFER TO SHEET S1, GENERAL NOTE 7.10 FOR TRUSS DESIGN CRITERIA AND OTHER INFO.



PERMIT SET	
REV	DATE
12-14-22	PERMIT SET
	DESCRIPTION

PROJECT: **NEW SINGLE-FAMILY DWELLING**
 2423 60th Ave SE
 Mercer Island, WA 98040

CLIENT: **Mary Smersh**
 2423 60th Ave SE
 Mercer Island, WA 98040

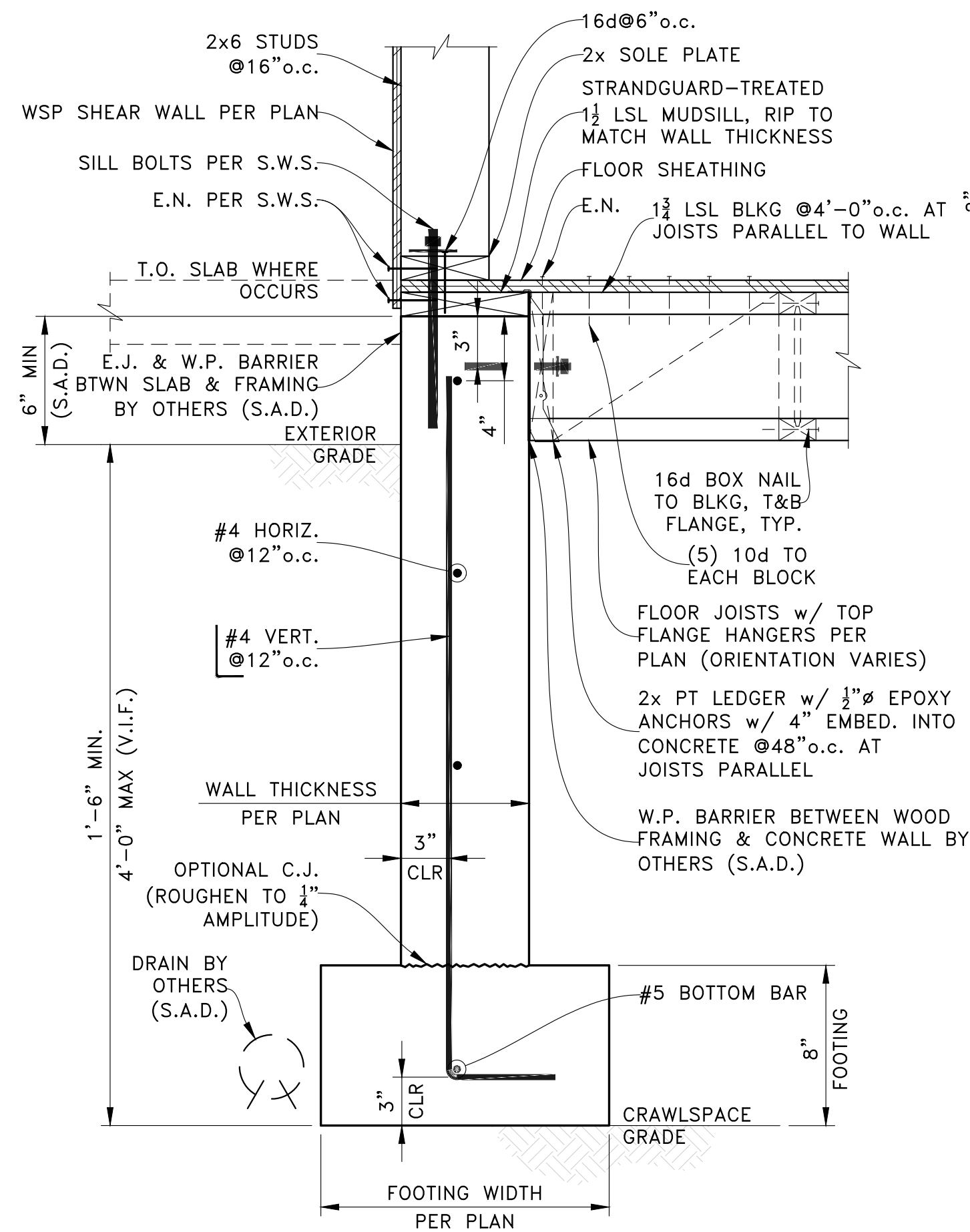


ENGINEER OF RECORD

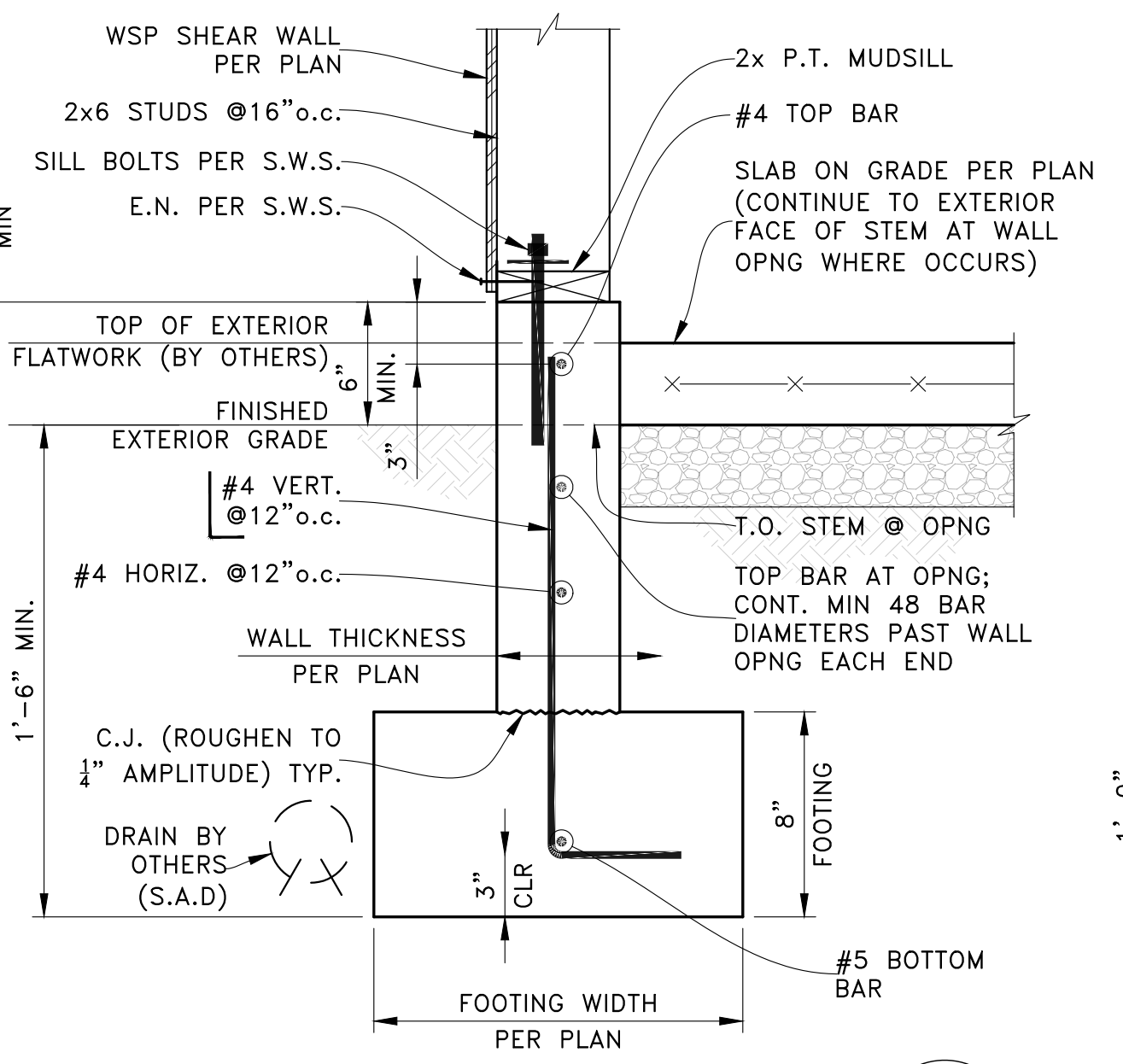
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 3201 1st Ave S, Suite 101, Seattle, WA 98134
 (206) 290-4608
 owen@ogengineer.com

SHEET TITLE: **ROOF FRAMING PLAN**

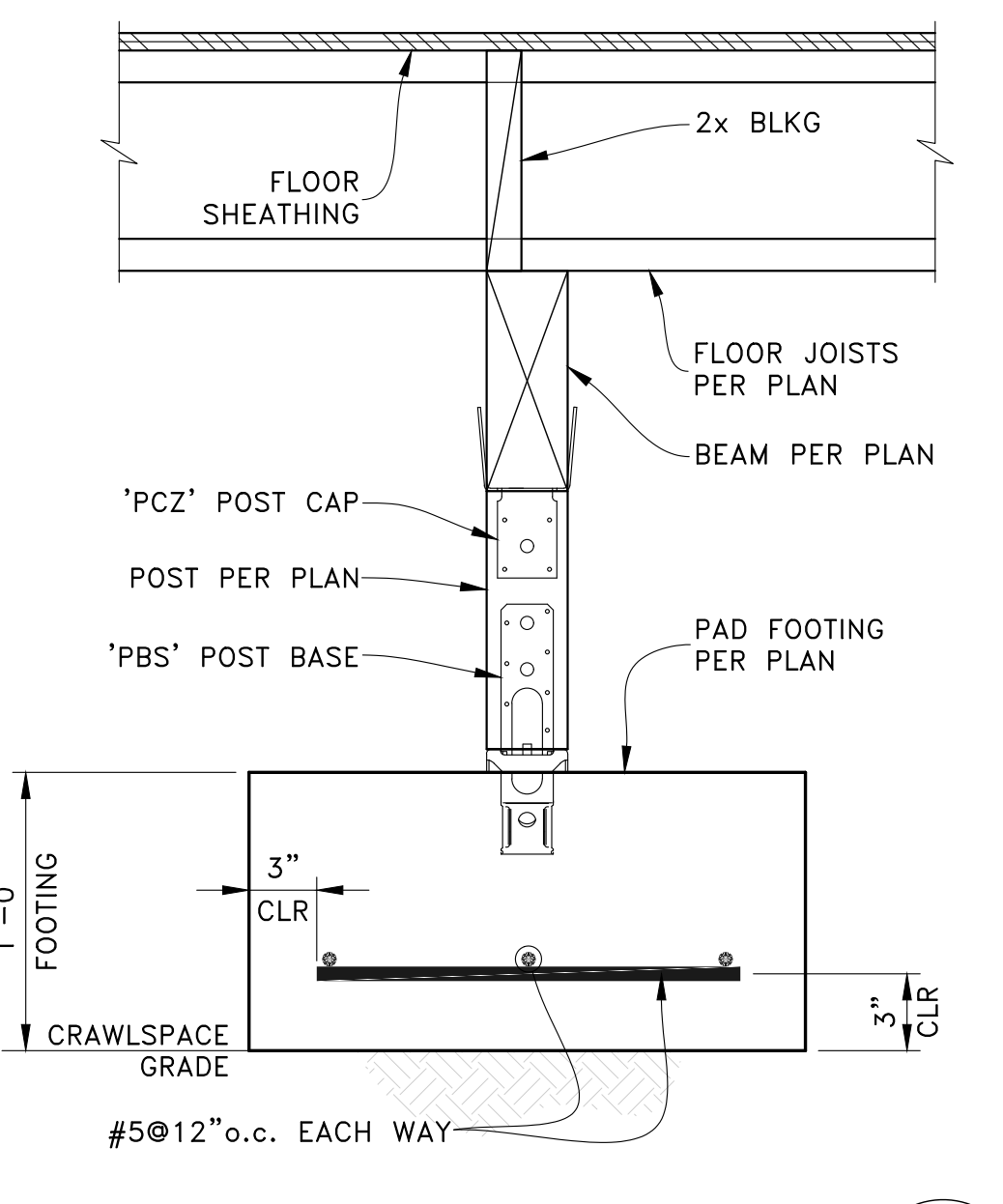
SCALE: AS NOTED	SHEET NO. S6
JOB NO. 22004	



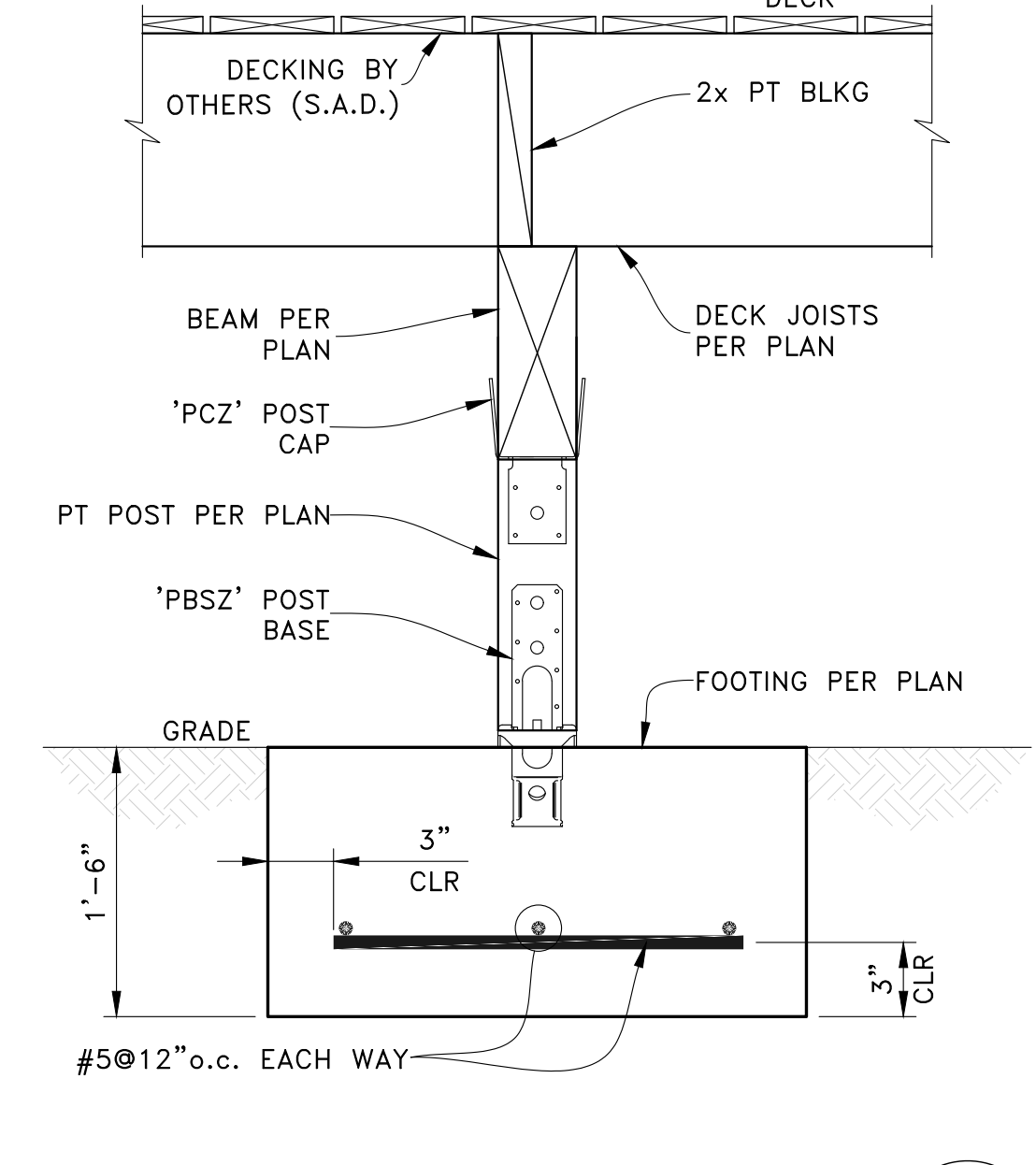
EXTERIOR CRAWSPACE FOUNDATION WALL
SCALE: NTS



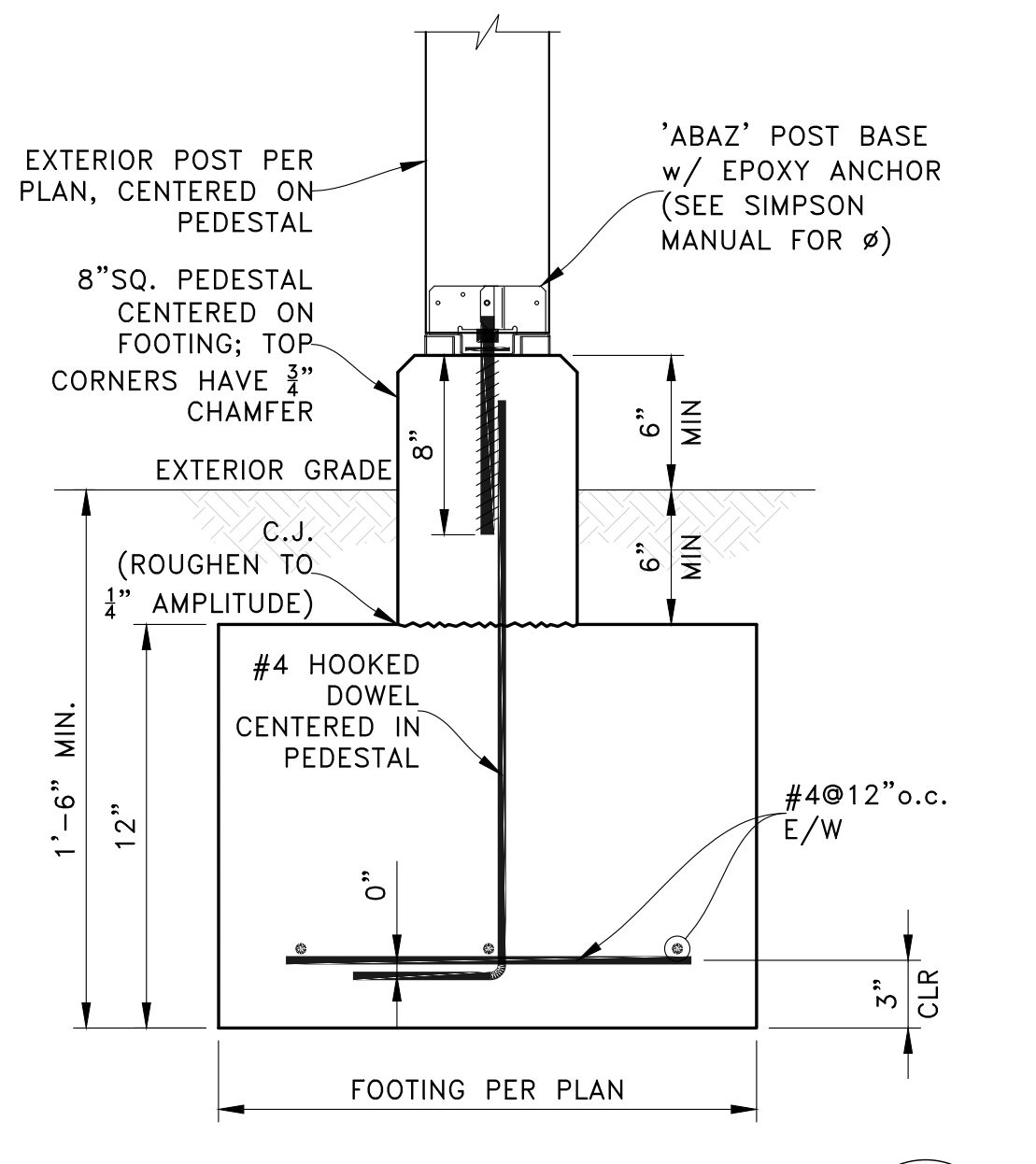
EXTERIOR SLAB ON GRADE FOUNDATION WALL
SCALE: NTS



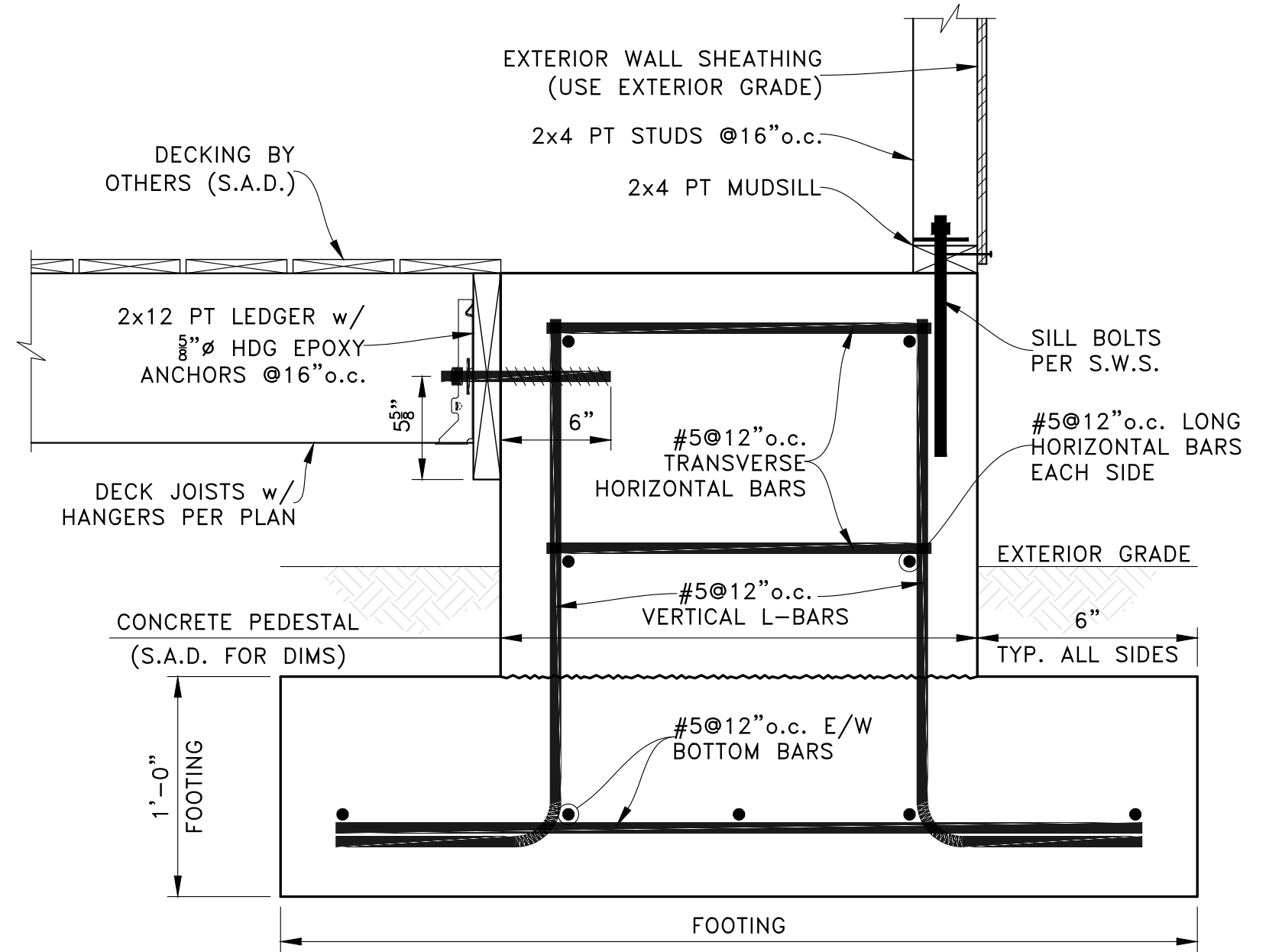
CRAWLSPACE PAD FOOTING
SCALE: NTS



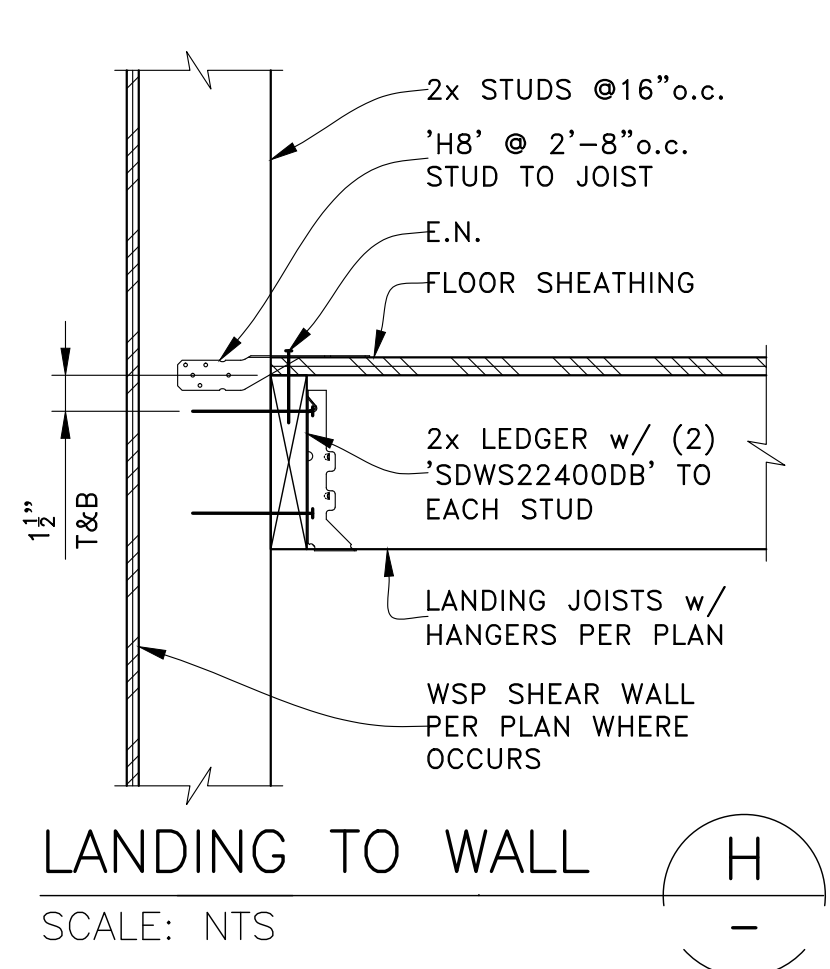
DECK PAD FOOTING
SCALE: NTS



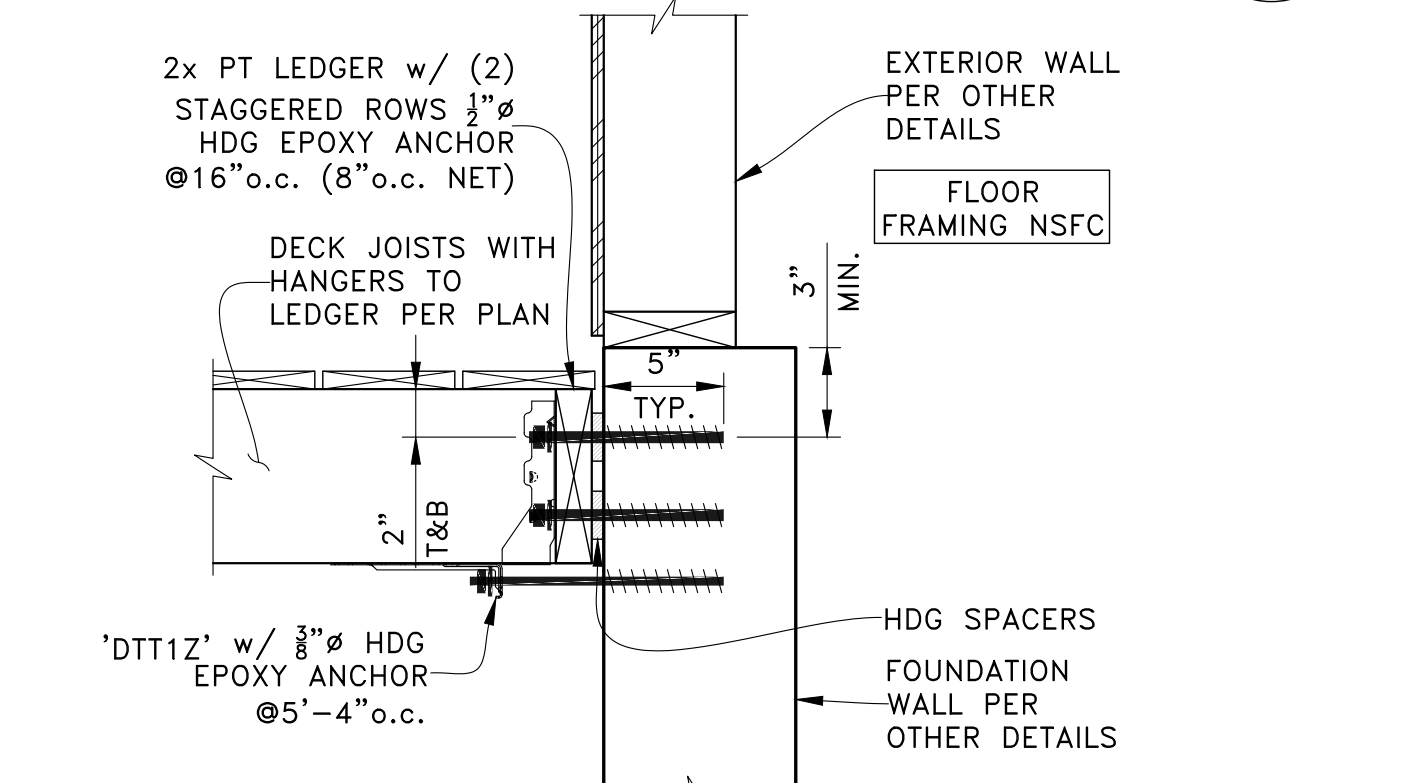
EXTERIOR POST FOOTING
SCALE: NTS



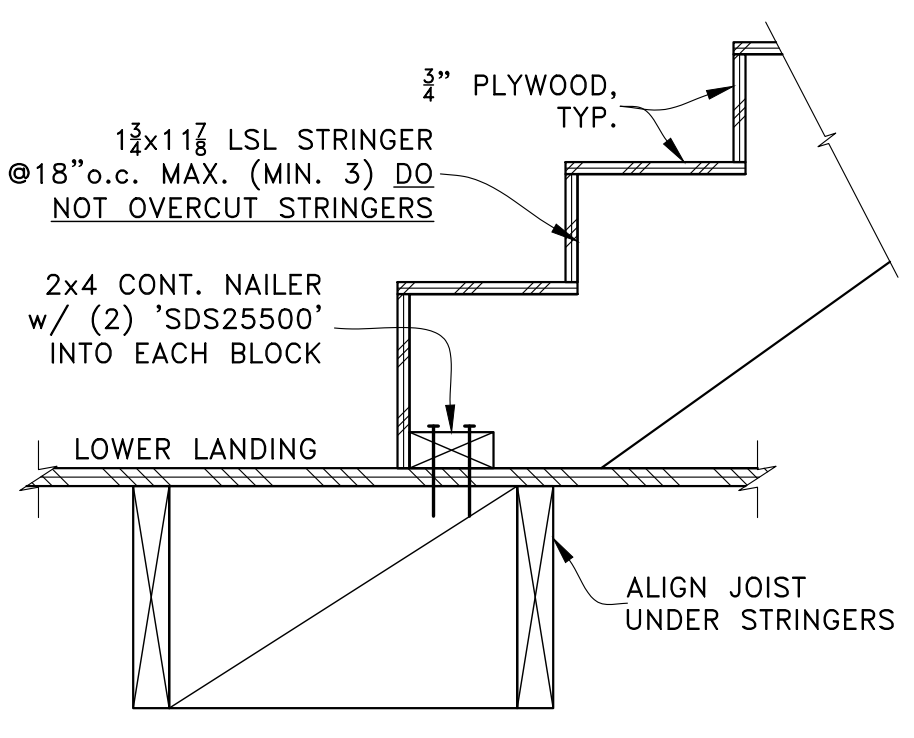
OUTDOOR FIREPLACE FOOTING
SCALE: NTS



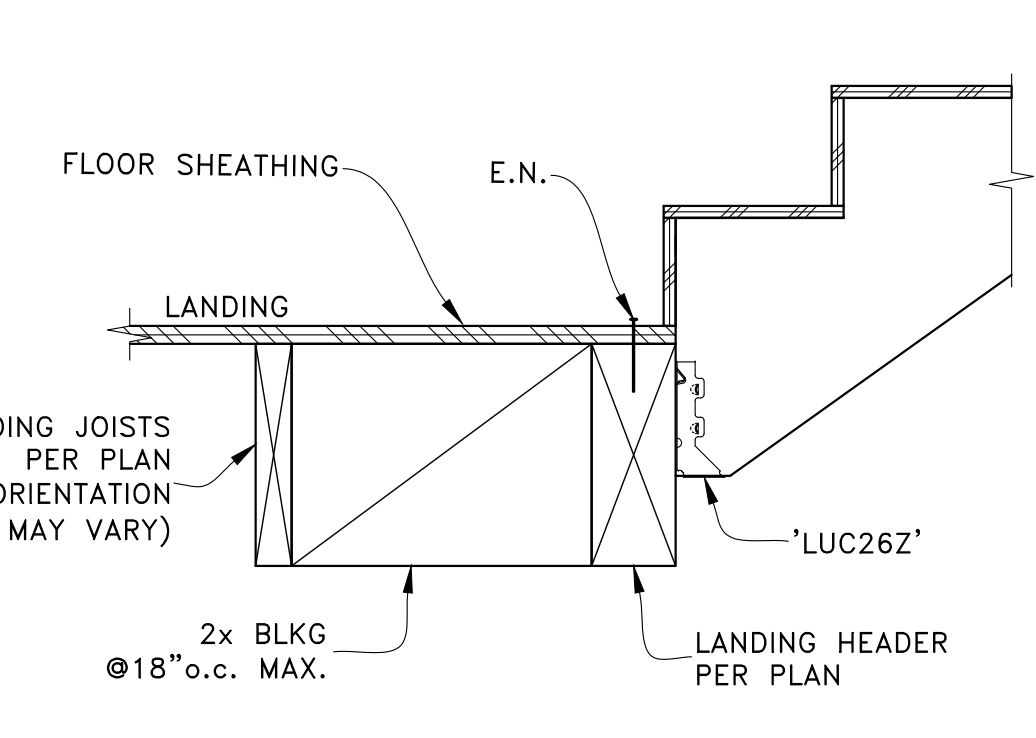
LANDING TO WALL
SCALE: NTS



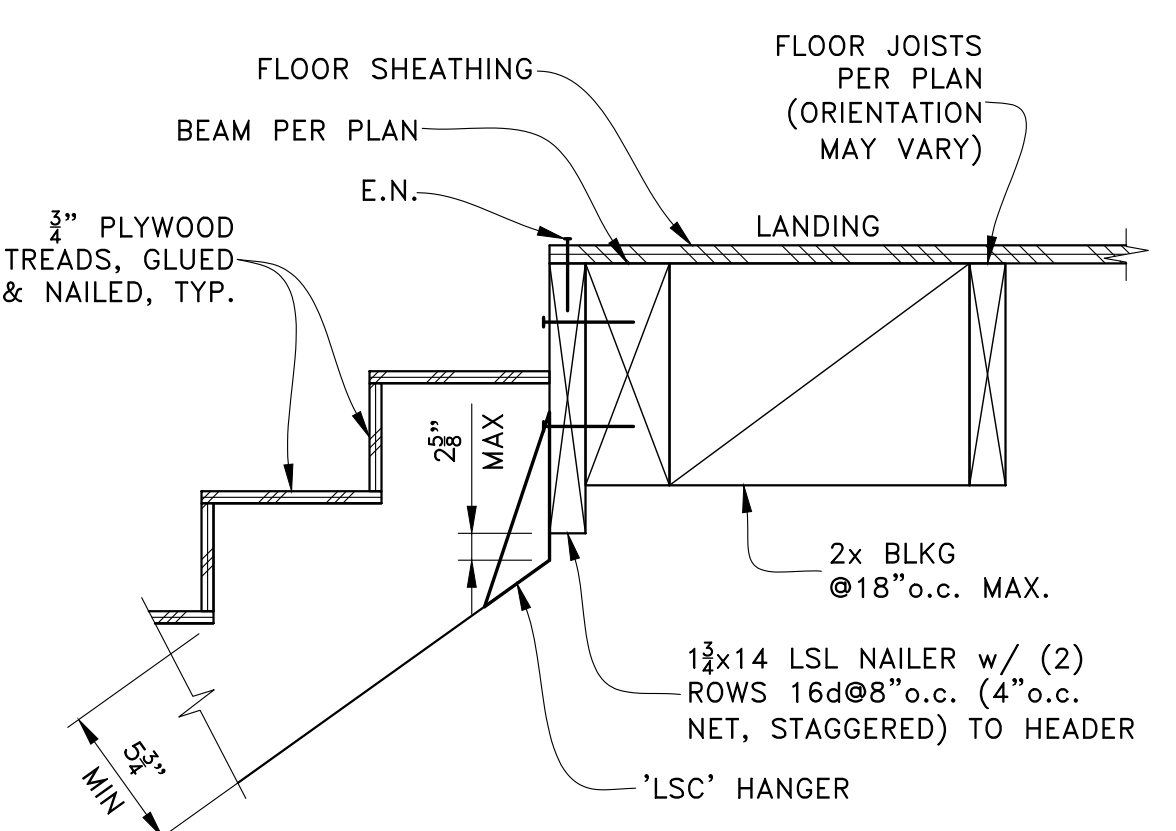
DECK TO FOUNDATION
SCALE: NTS



BOTTOM OF RUN @ FLOOR



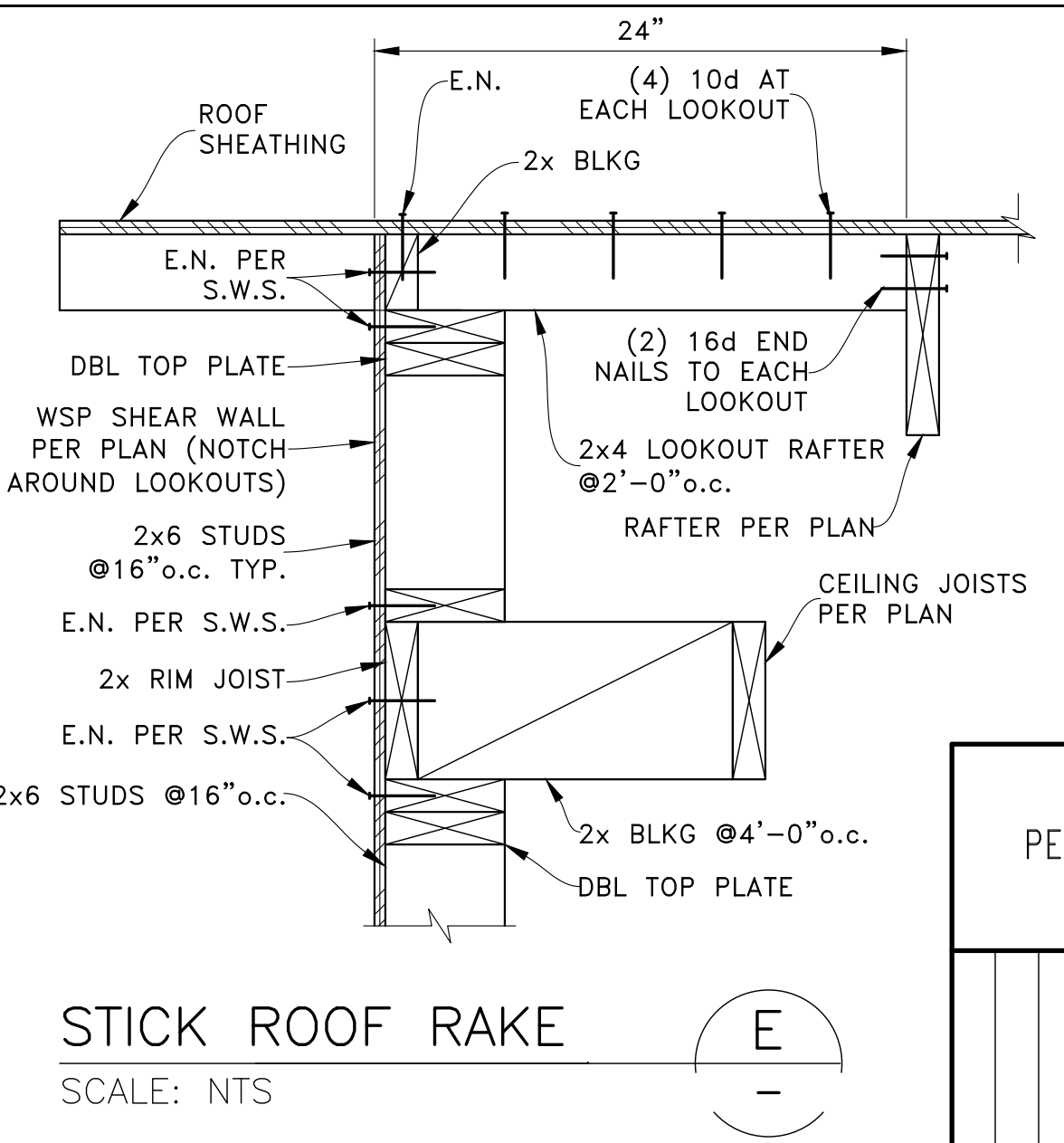
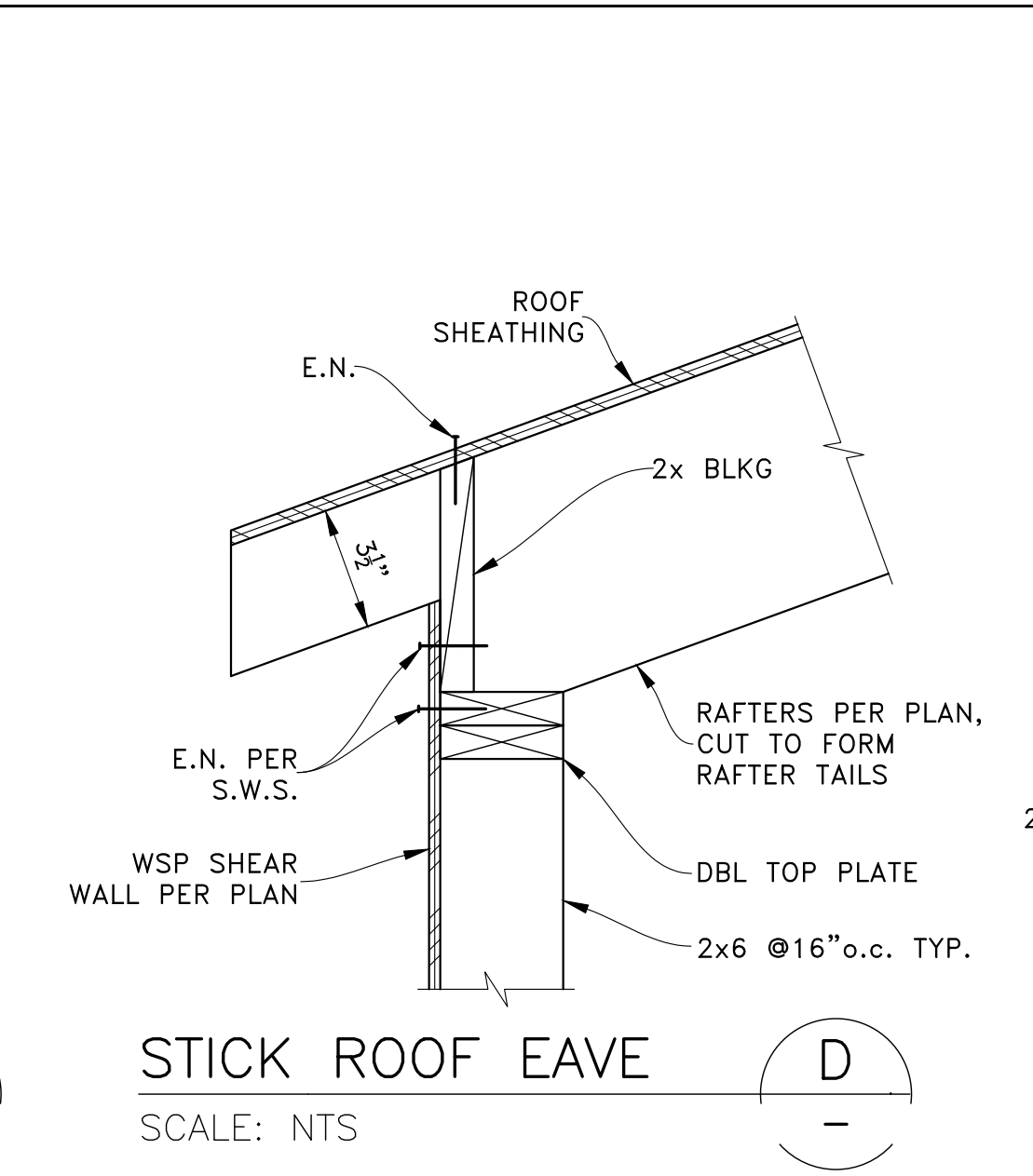
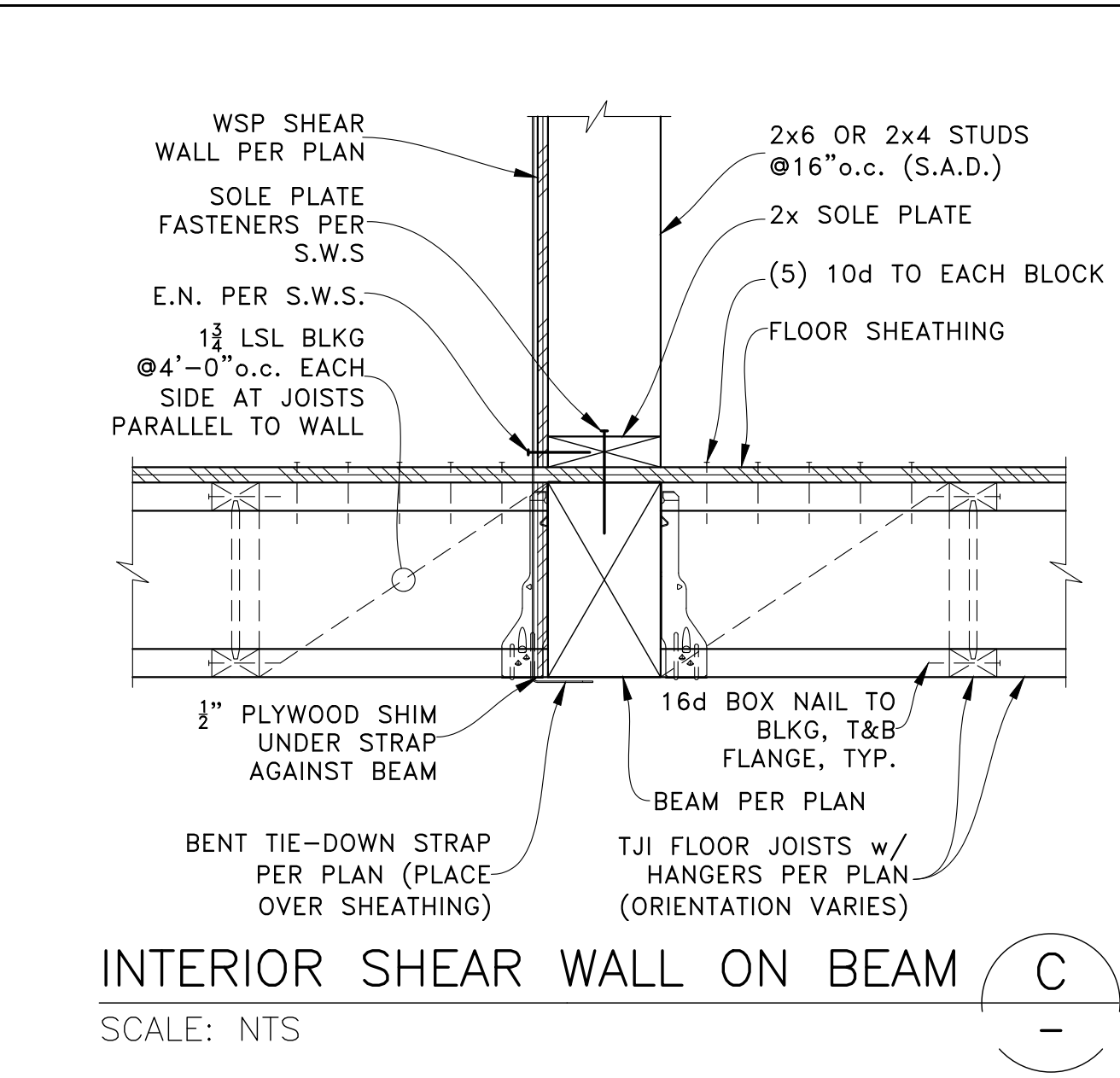
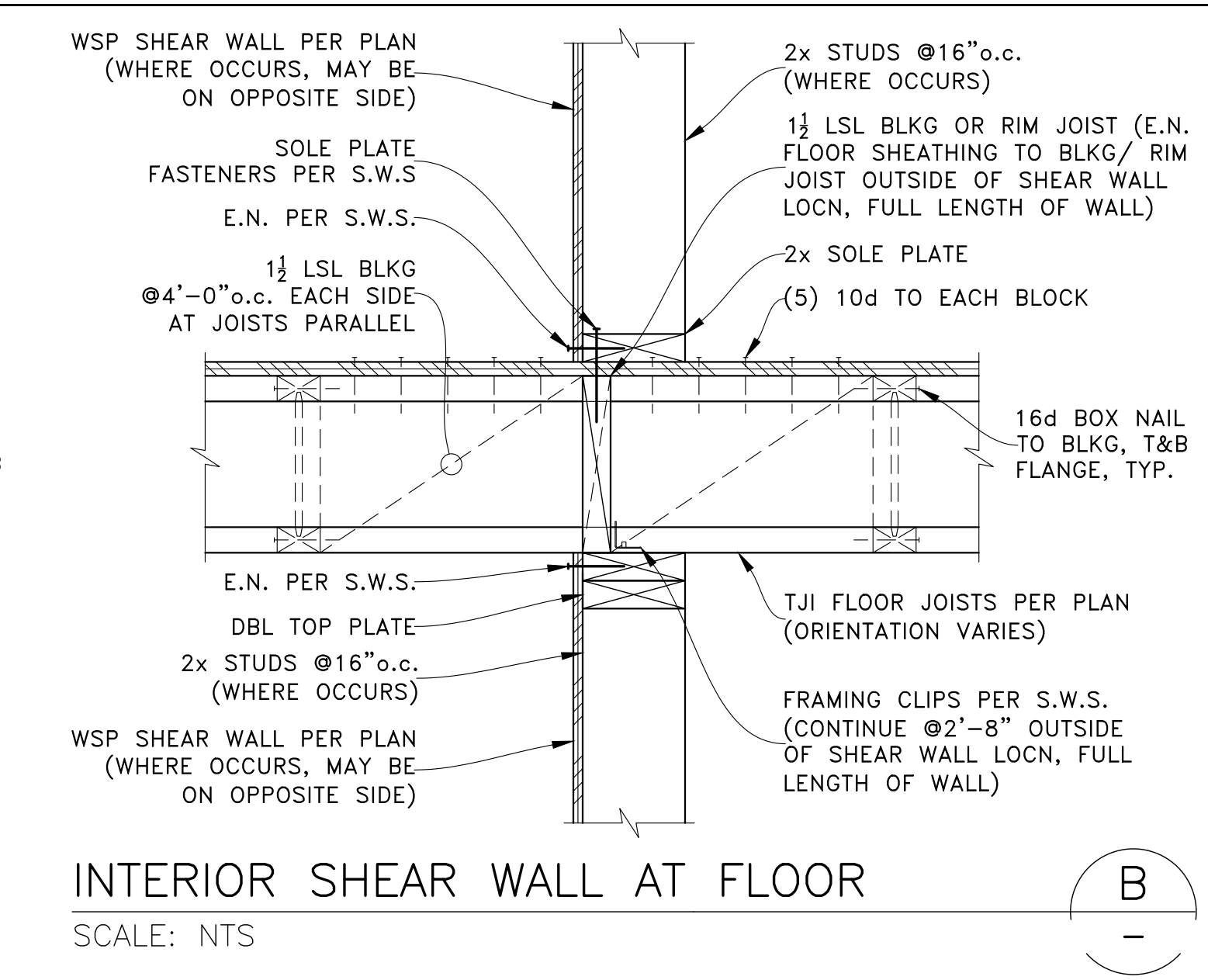
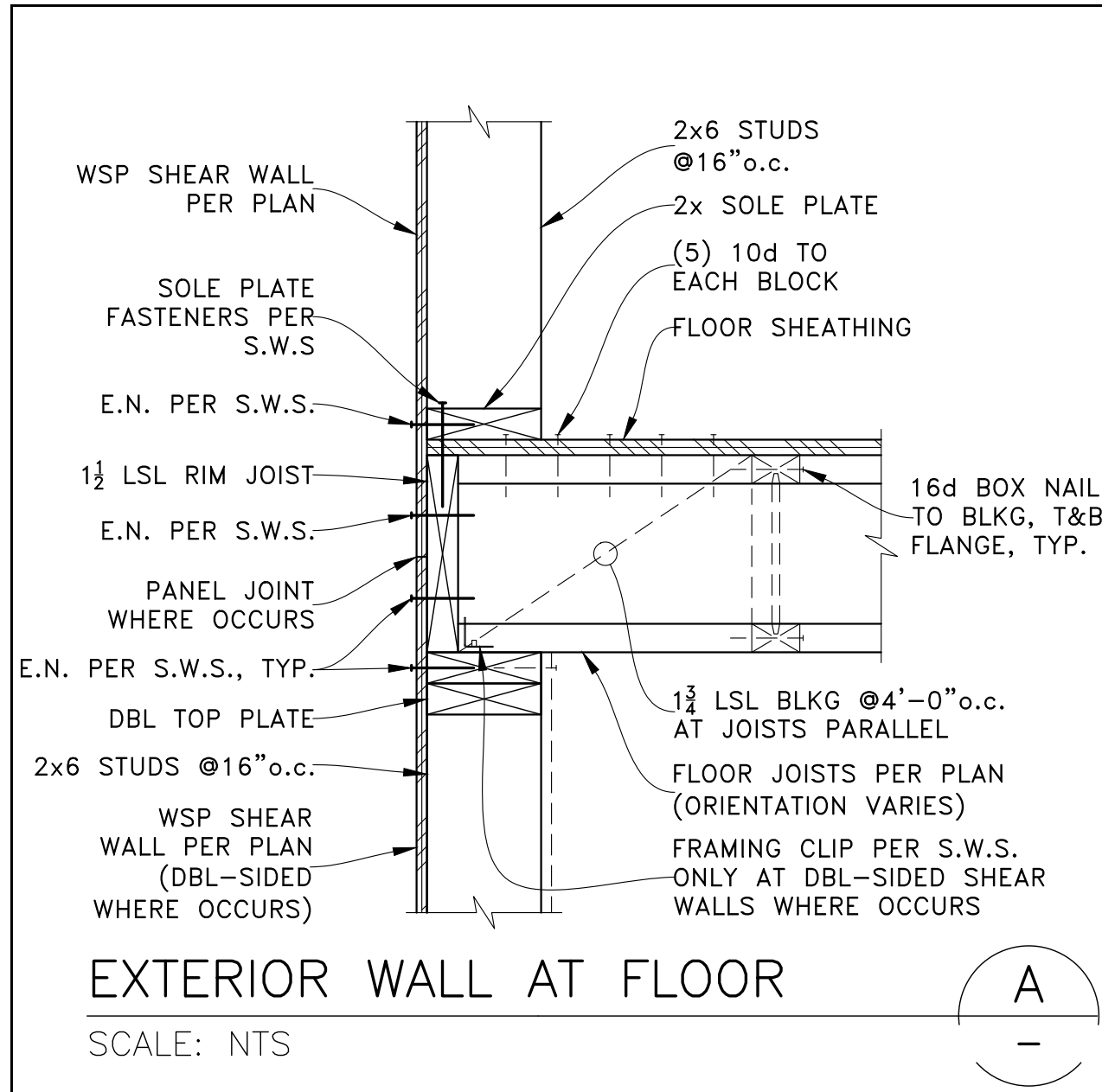
BOTTOM OF RUN @ LANDING



TOP OF RUN

INTERIOR STAIR
SCALE: NTS

PERMIT SET	
12-14-22	PERMIT SET
REV	DATE
PROJECT: NEW SINGLE-FAMILY DWELLING	
2423 60th Ave SE	
Mercer Island, WA 98040	
CLIENT:	Mary Smersh
	2423 60th Ave SE
	Mercer Island, WA 98040
ENGINEER OF RECORD	
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owen@ogengineer.com	
SHEET TITLE	
SECTIONS & DETAILS	
SCALE: AS NOTED	SHEET NO. S7
JOB NO. 22004	



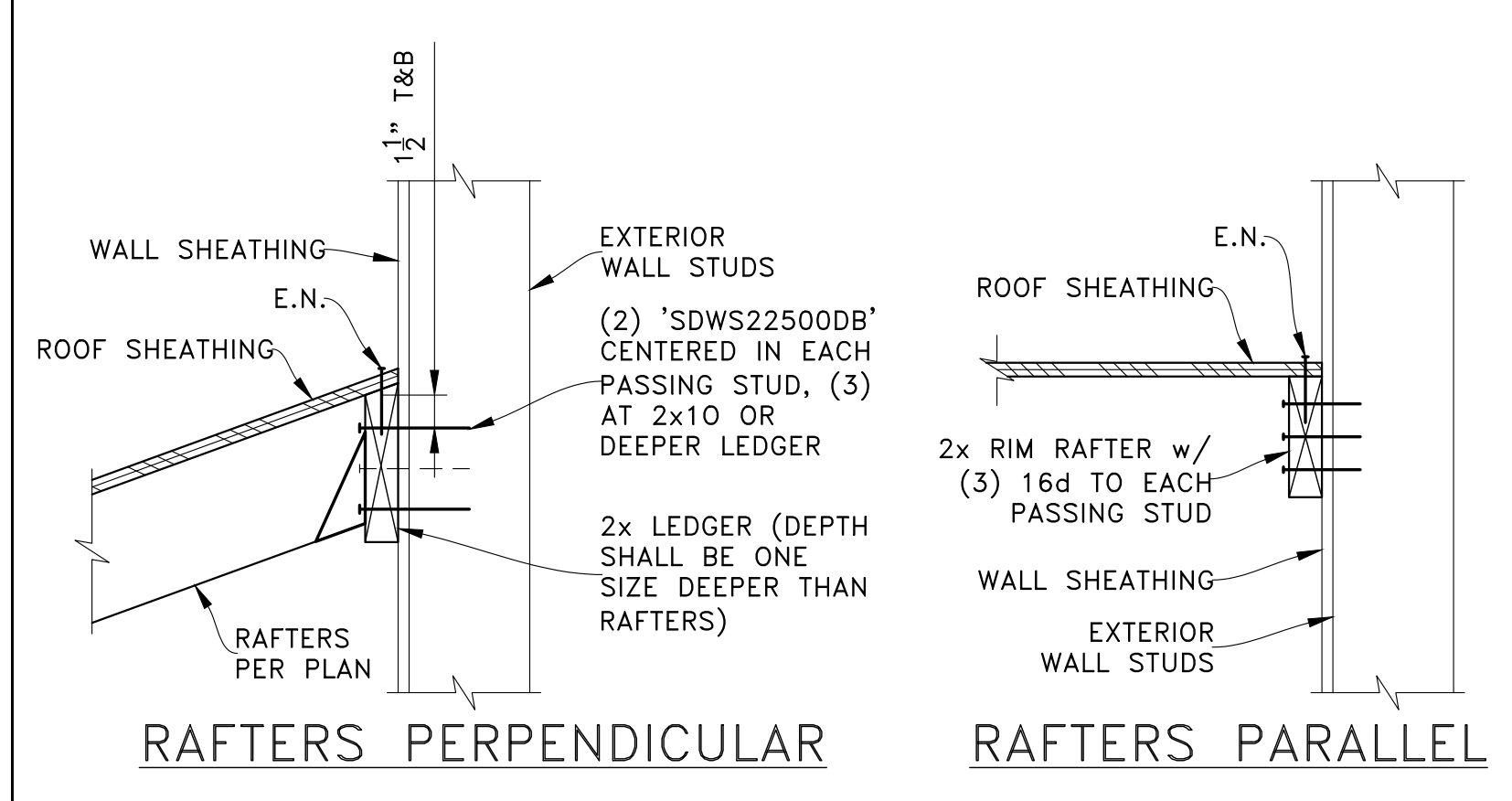
EXTERIOR WALL AT FLOOR
SCALE: NTS

INTERIOR SHEAR WALL AT FLOOR
SCALE: NTS

INTERIOR SHEAR WALL ON BEAM
SCALE: NTS

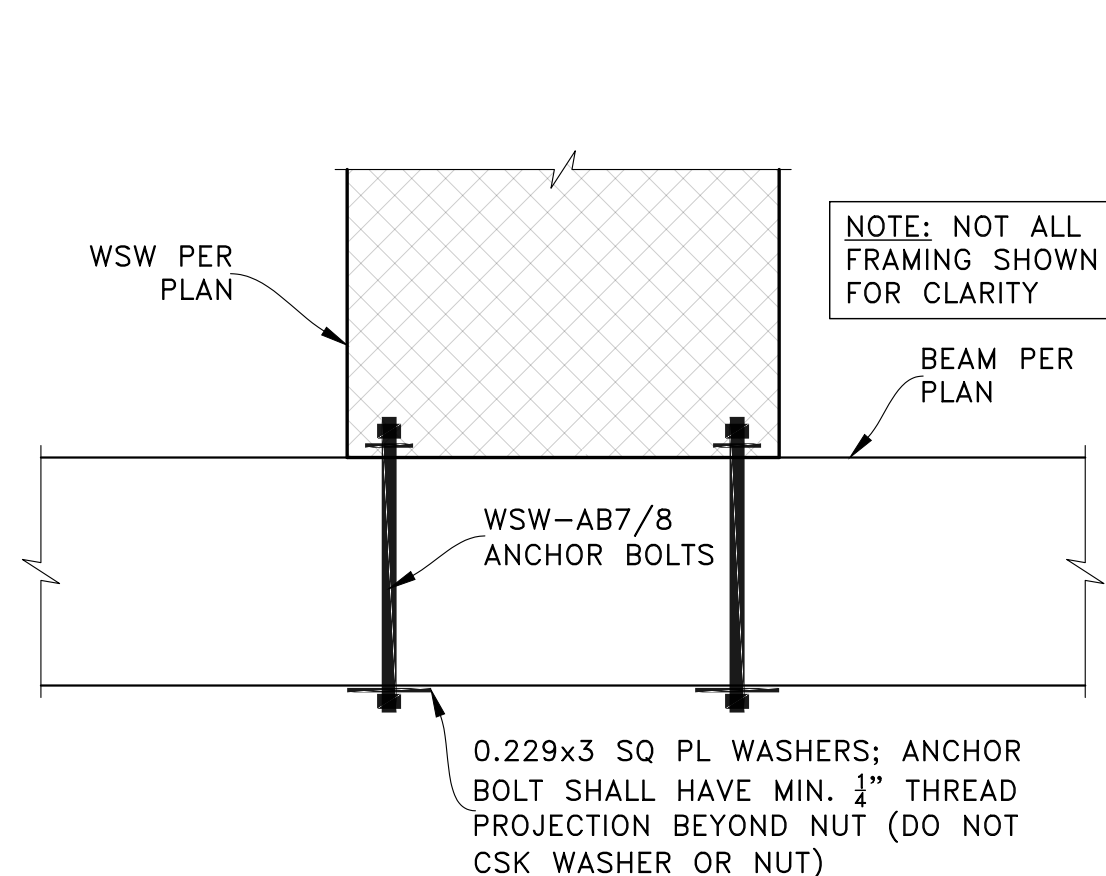
STICK ROOF EAVE
SCALE: NTS

STICK ROOF RAKE
SCALE: NTS

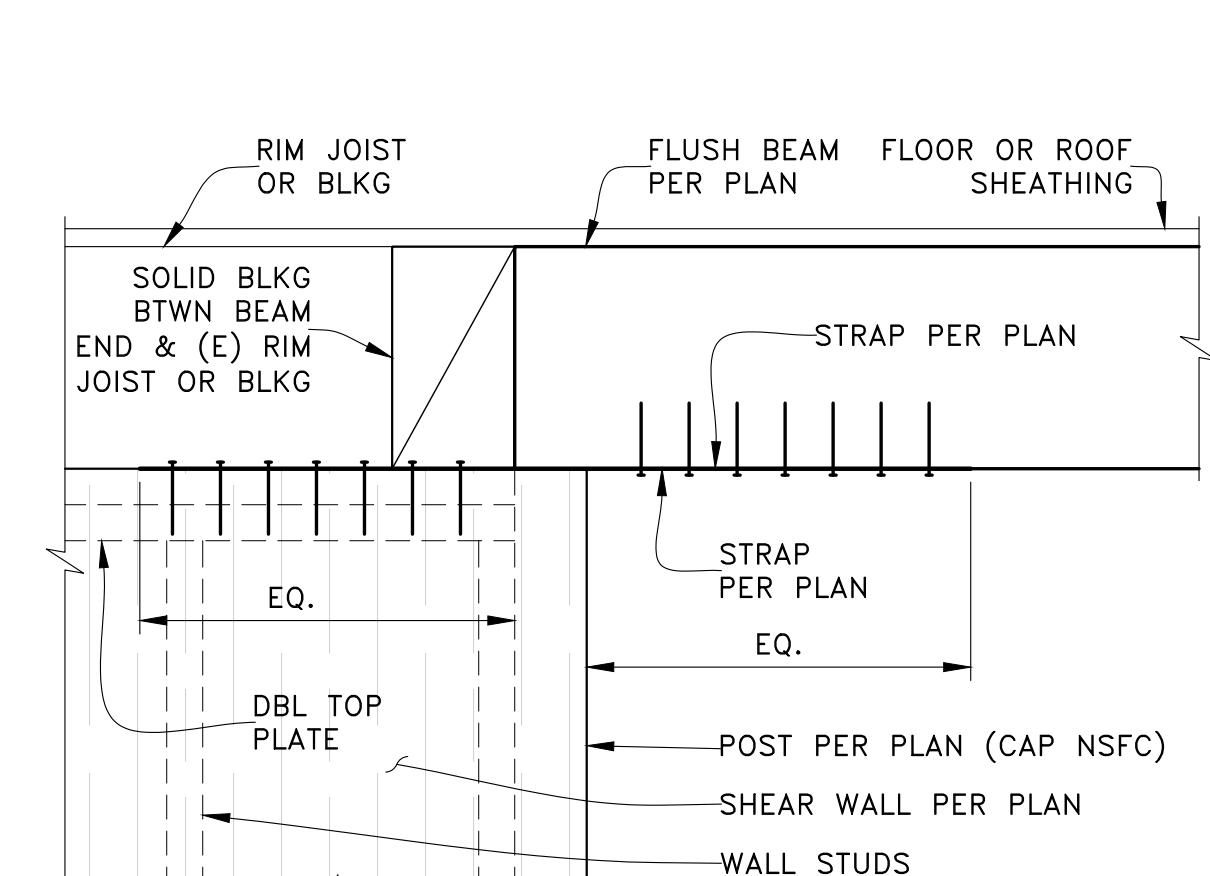


STICK ROOF TO EXTERIOR WALL
SCALE: NTS

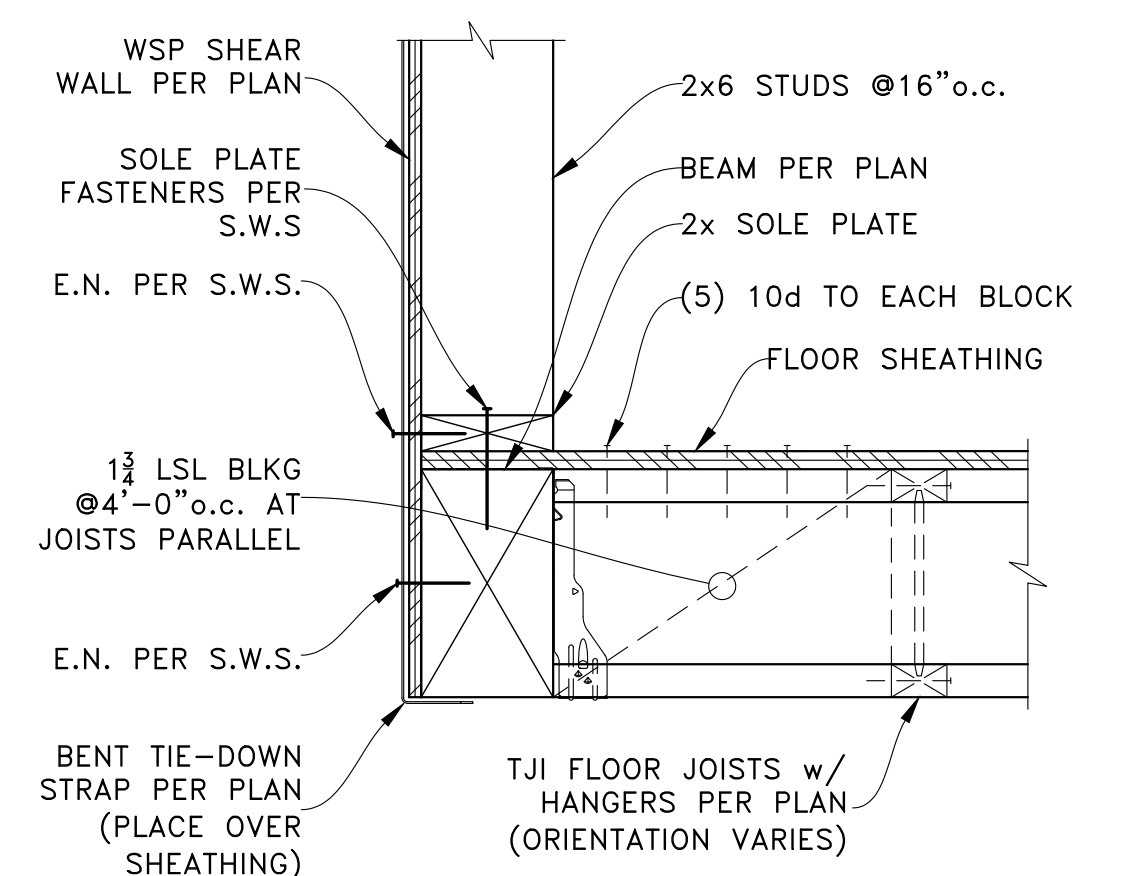
RIDGE BEAM
SCALE: NTS



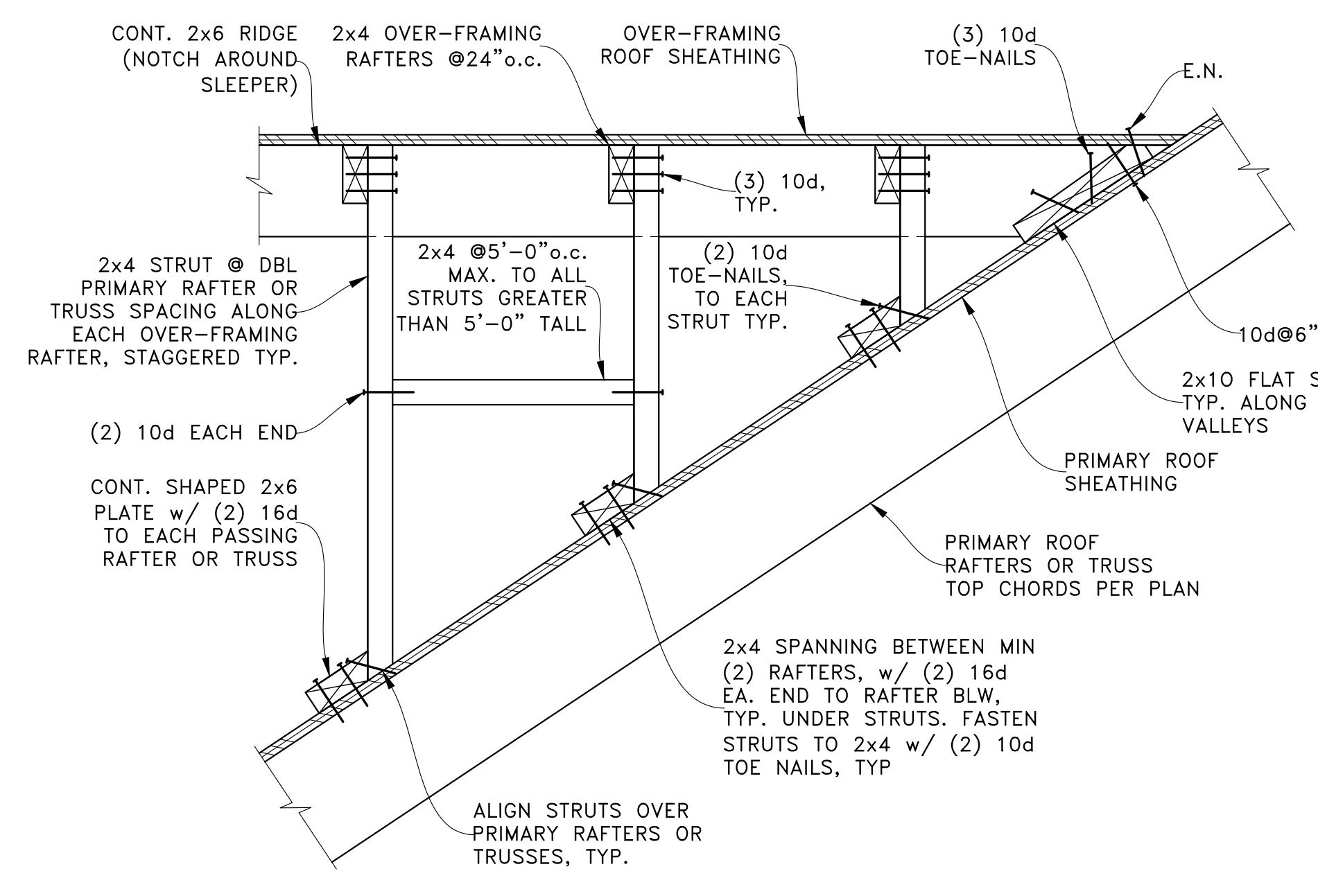
WSW ON BEAM
SCALE: NTS



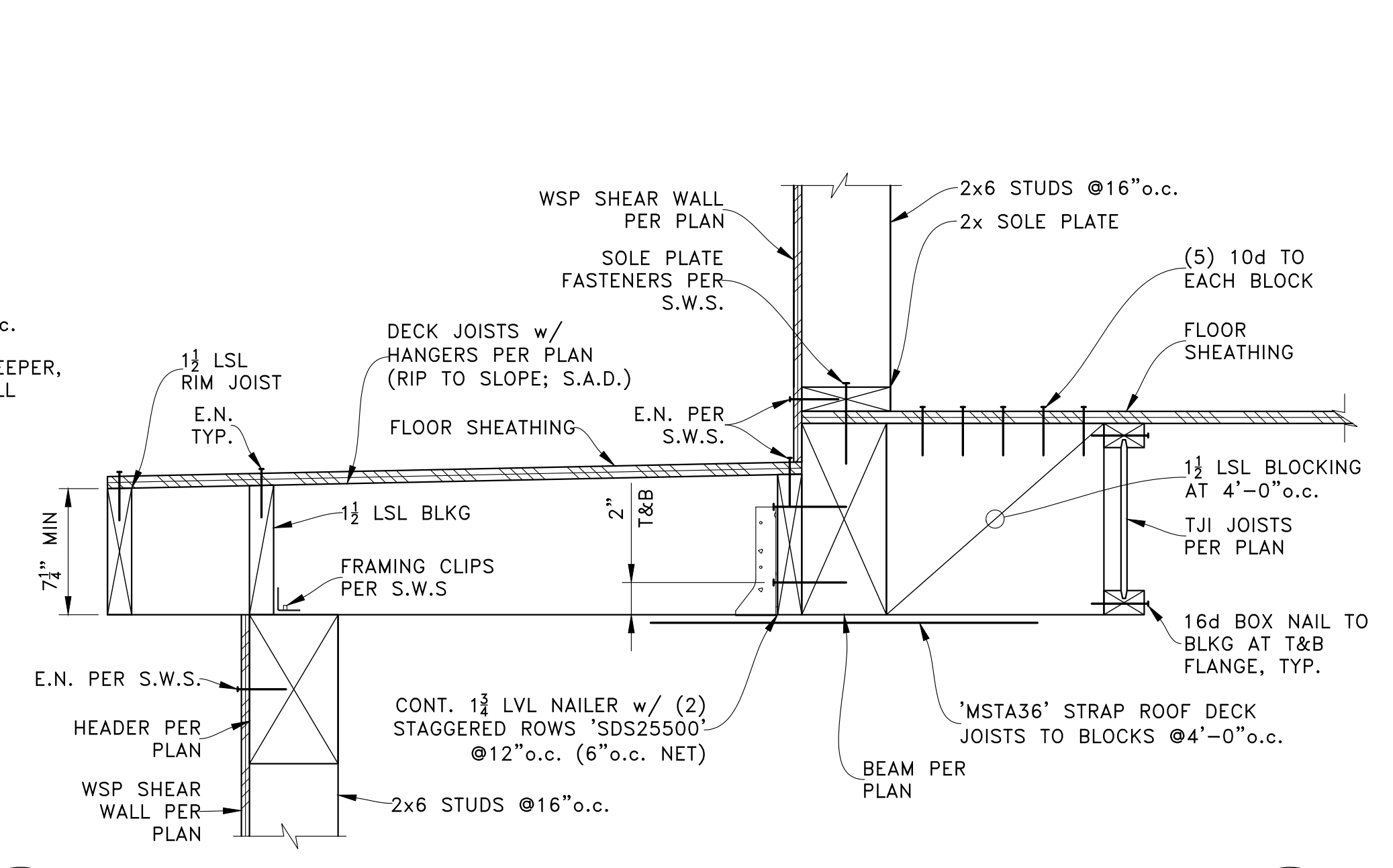
BEAM STRAP TO SHEAR WALL
SCALE: NTS



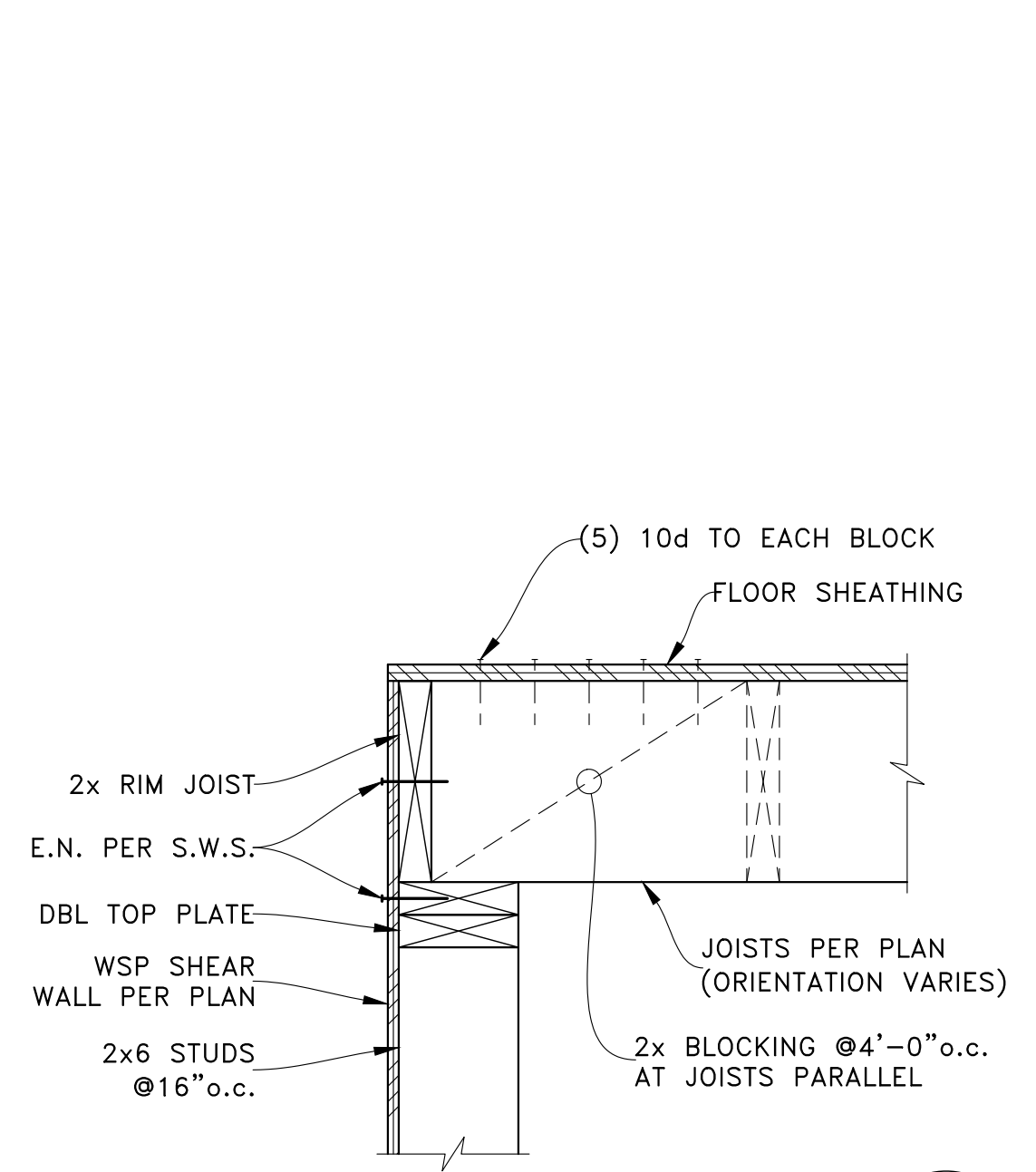
SHEAR WALL ON BEAM
SCALE: NTS



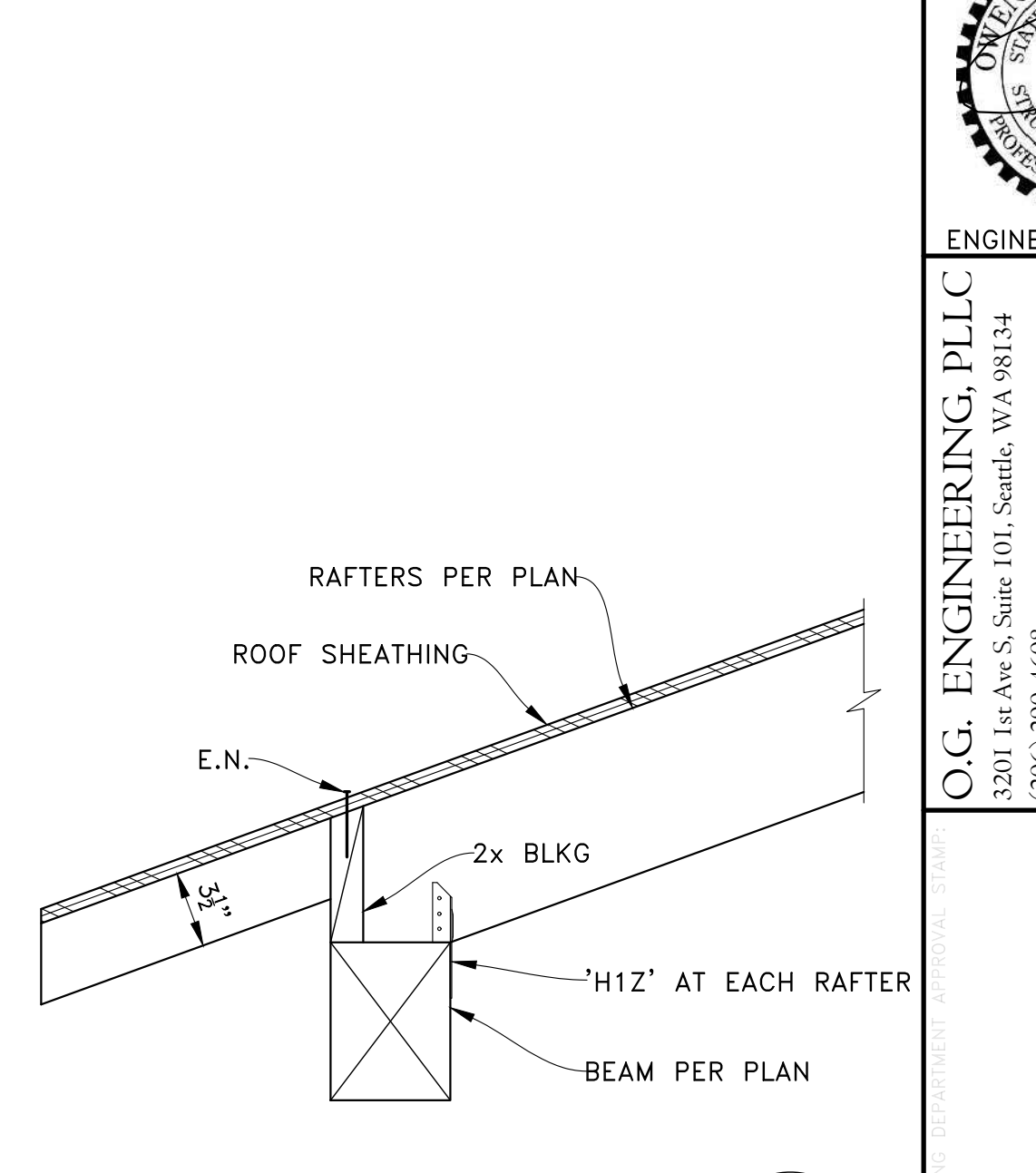
TYPICAL OVER-FRAMING
SCALE: NTS



ROOF DECK
SCALE: NTS



ROOF DECK
SCALE: NTS



EAVE AT BEAM
SCALE: NTS

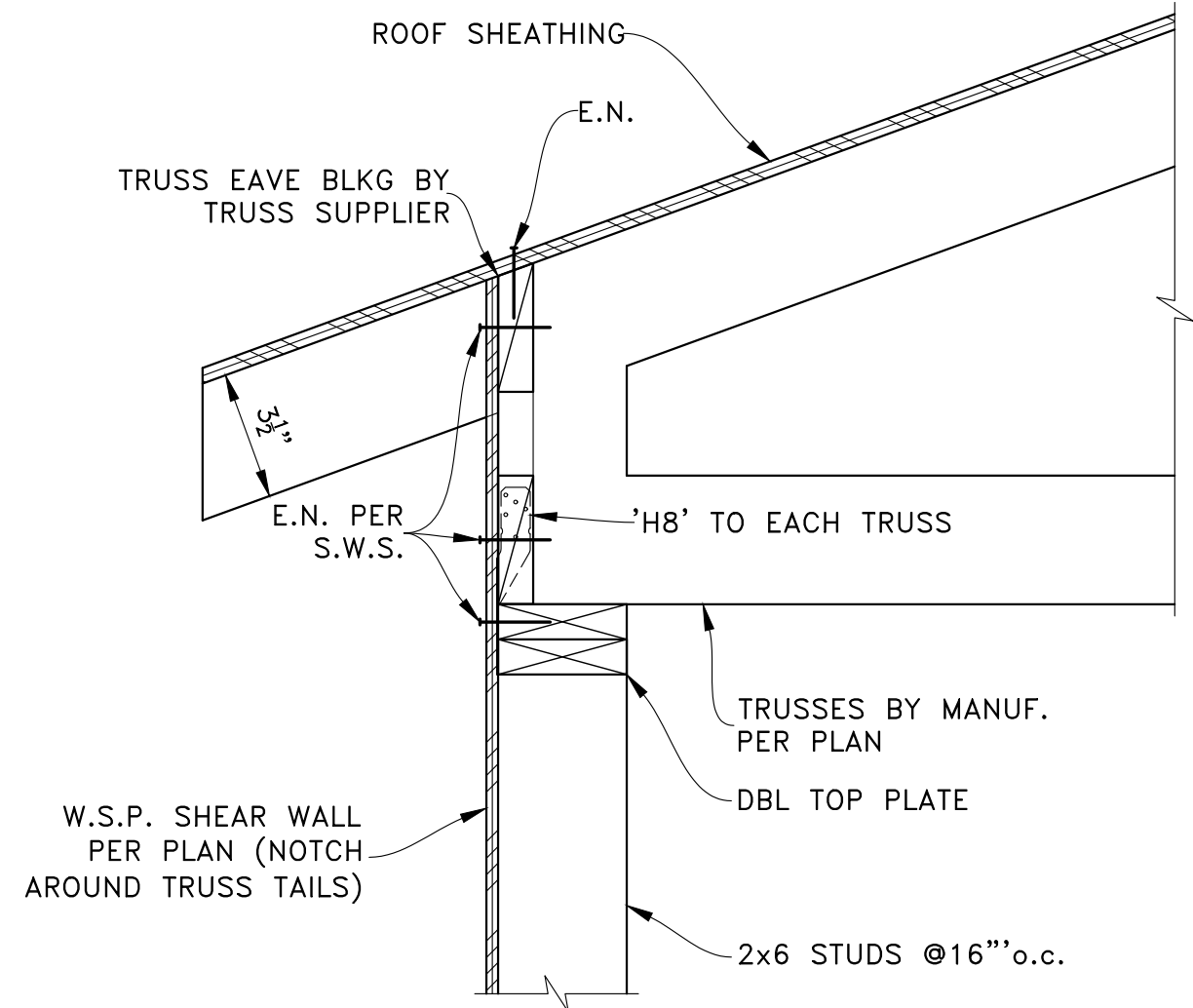
PERMIT SET	
12-14-22	PERMIT SET
REV	DATE
PROJECT: NEW SINGLE-FAMILY DWELLING	
2423 60th Ave SE	
Mercer Island, WA 98040	
CLIENT:	Mary Smersh
	2423 60th Ave SE
	Mercer Island, WA 98040



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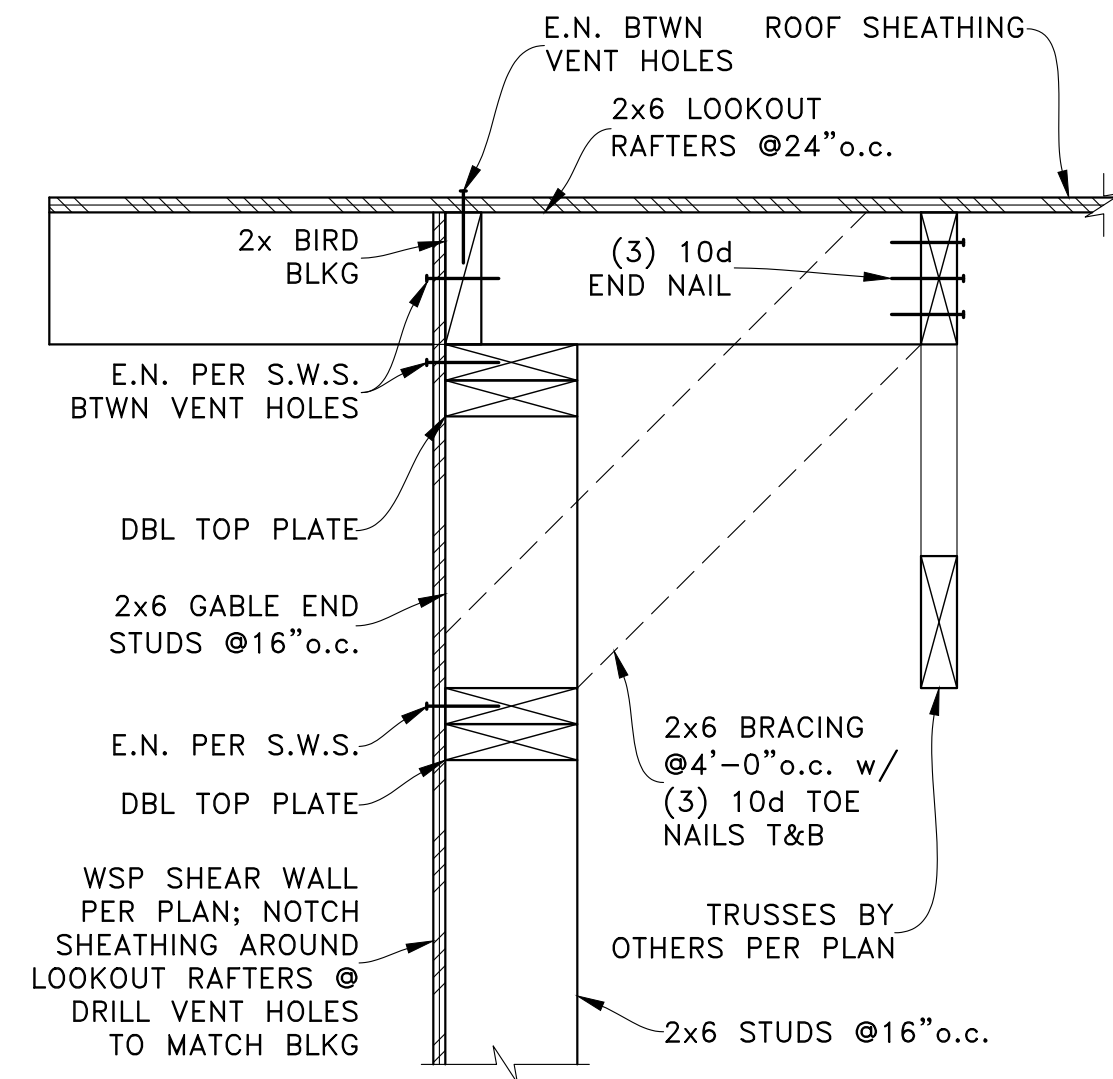
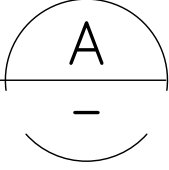
SECTIONS & DETAILS

SCALE: AS NOTED
JOB NO. 22004
SHEET NO. 58



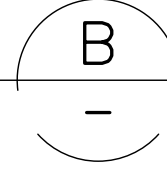
TRUSS ROOF EAVE

SCALE: NTS



TRUSS ROOF RAKE

SCALE: NTS



PERMIT SET

REV	DATE	DESCRIPTION
12-14-22		PERMIT SET

PROJECT: NEW SINGLE-FAMILY DWELLING
2423 60th Ave SE
Mercer Island, WA 98040

CLIENT: Mary Smersh
2423 60th Ave SE
Mercer Island, WA 98040



ENGINEER OF RECORD

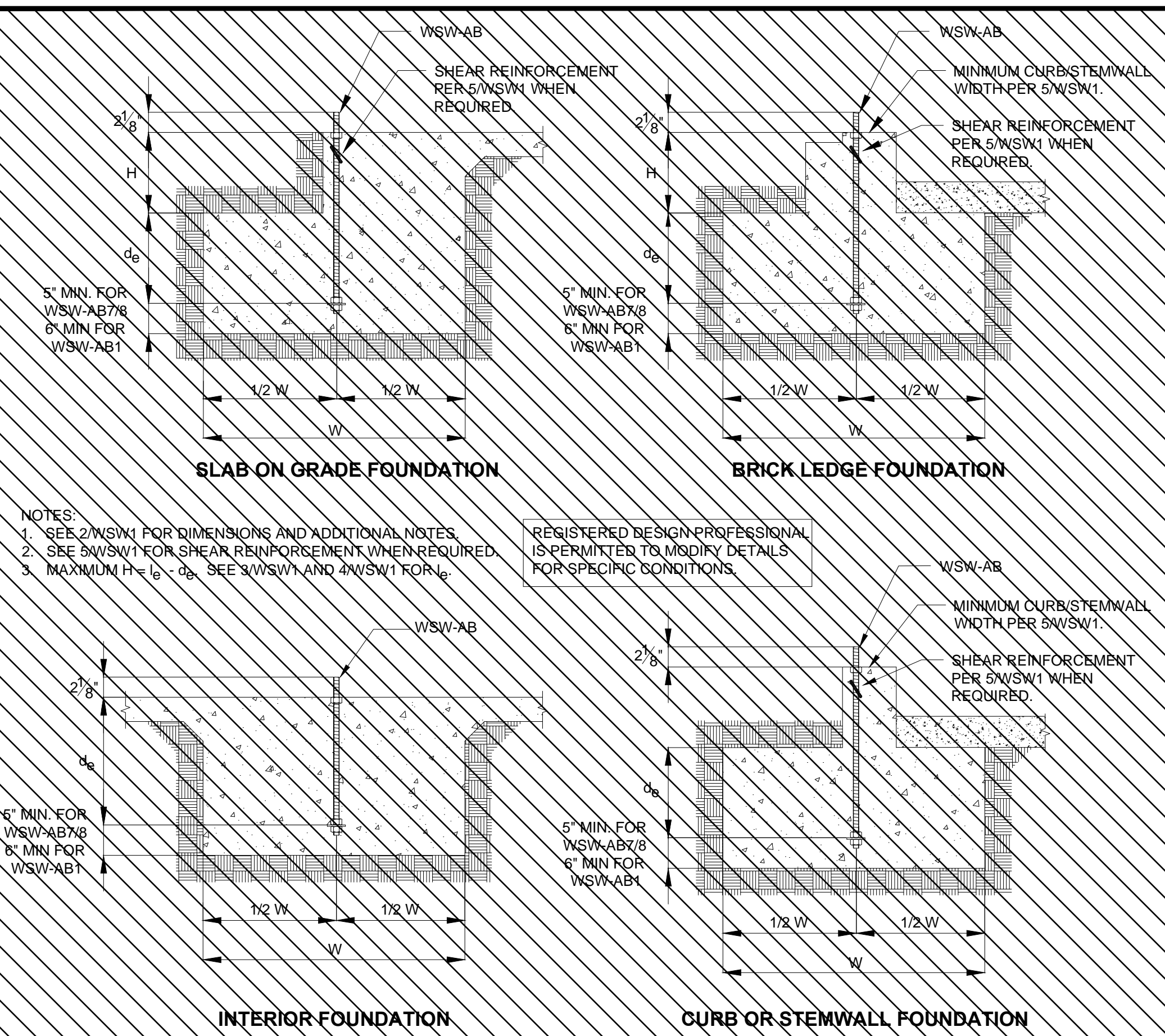
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SHEET TITLE
SECTIONS & DETAILS

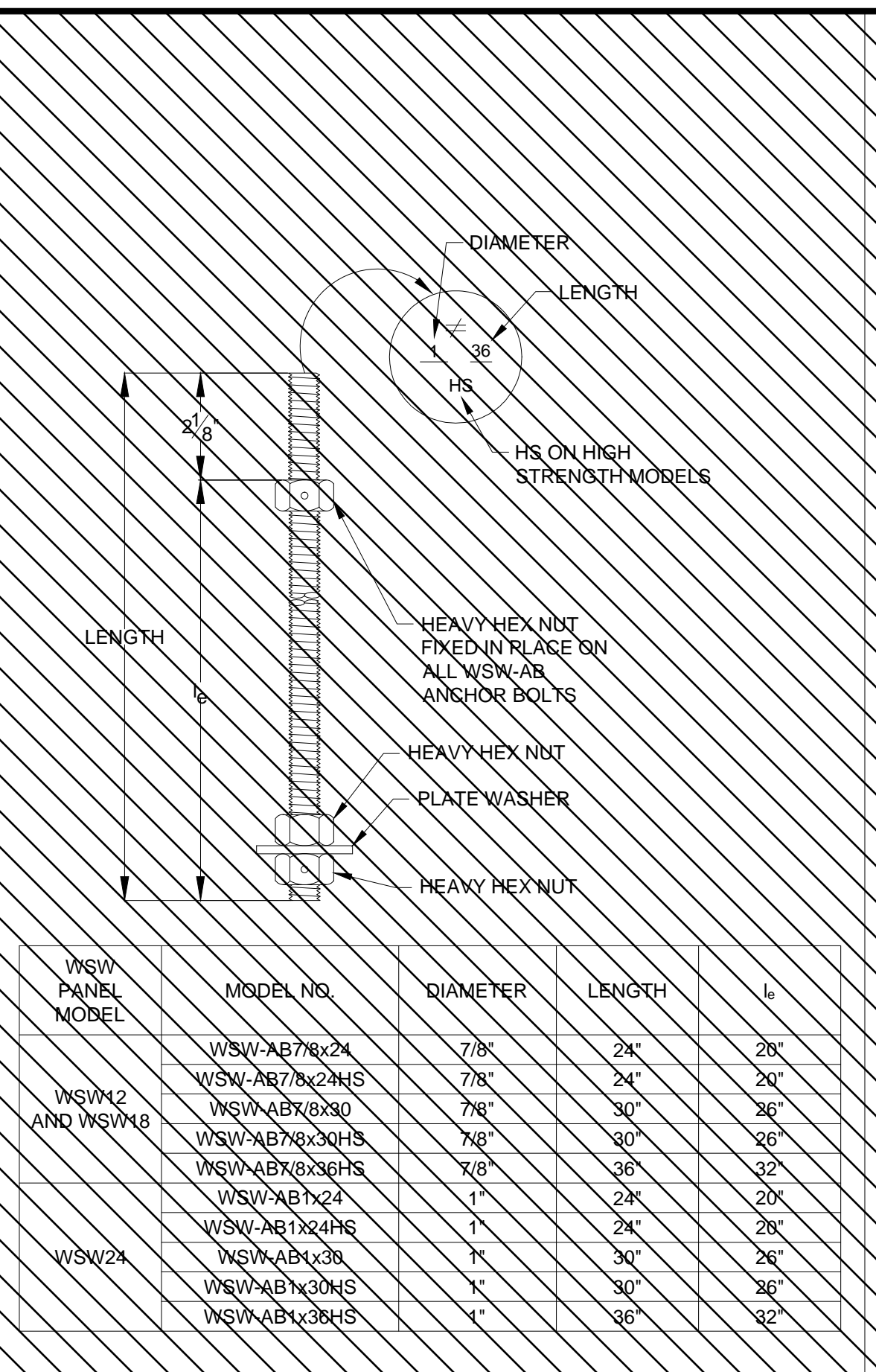
SCALE:
AS NOTED

SHEET NO.
S9

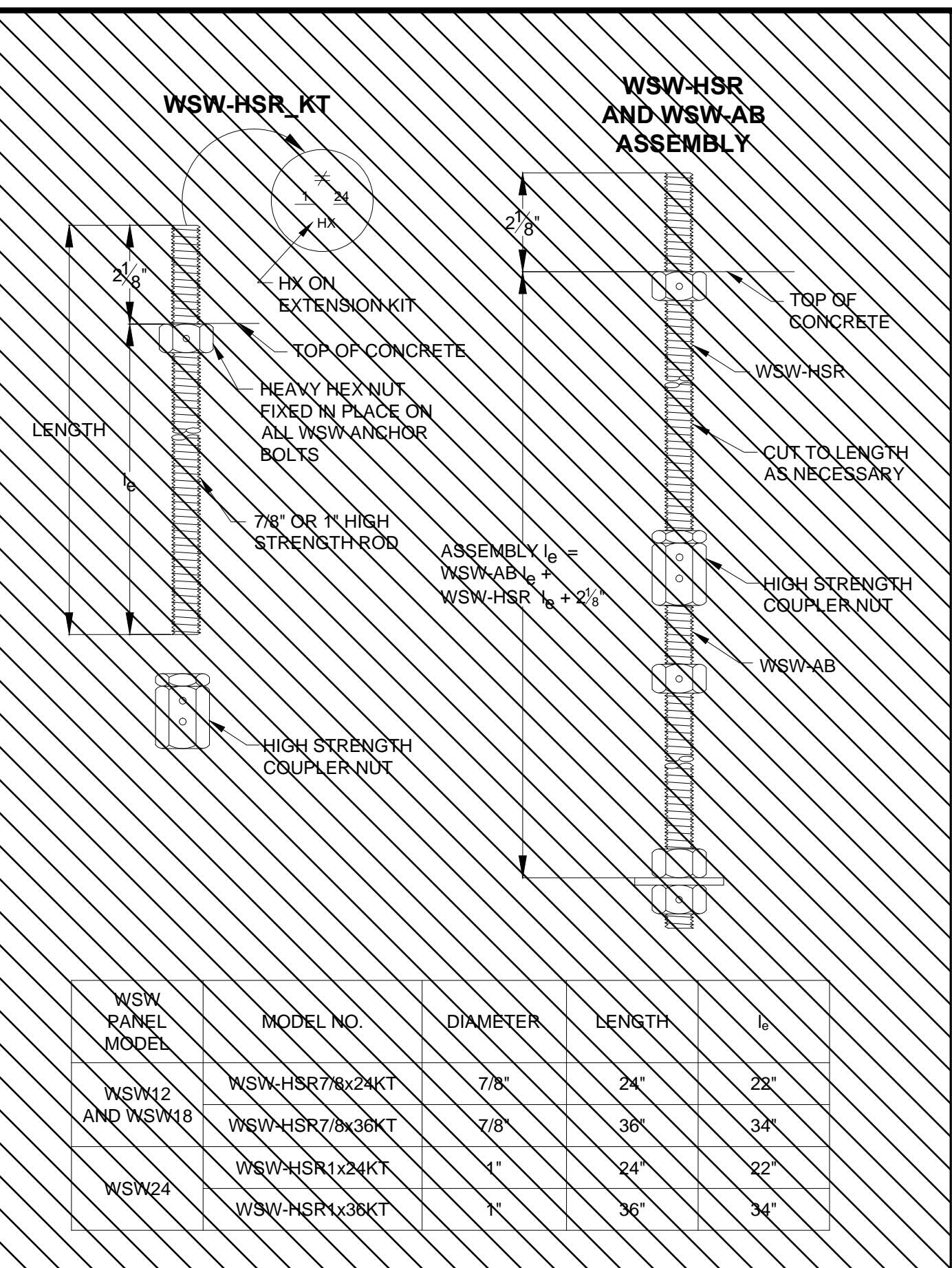
JOB NO.
22004



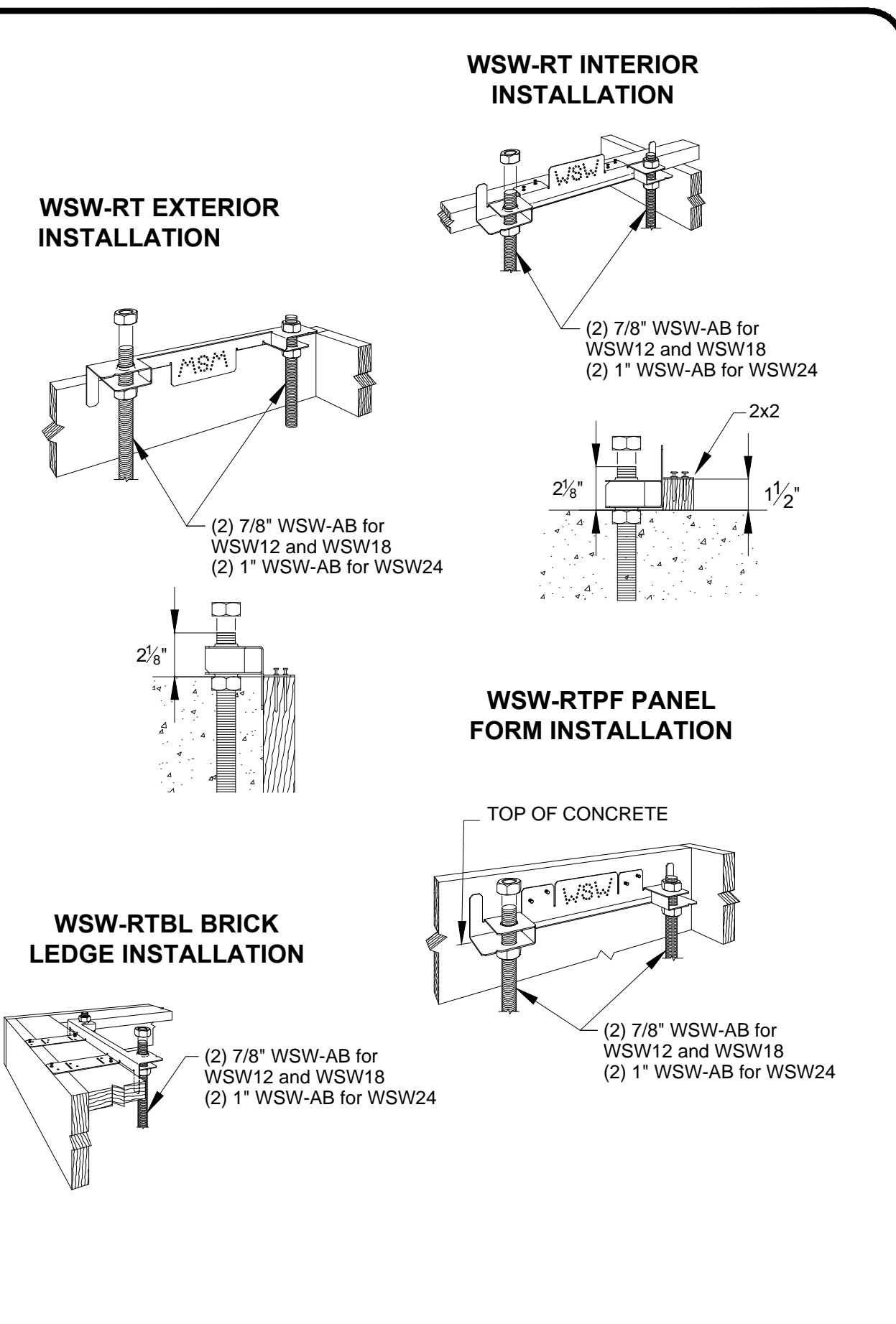
STRONG-WALL® WSW ANCHORAGE - TYPICAL SECTIONS



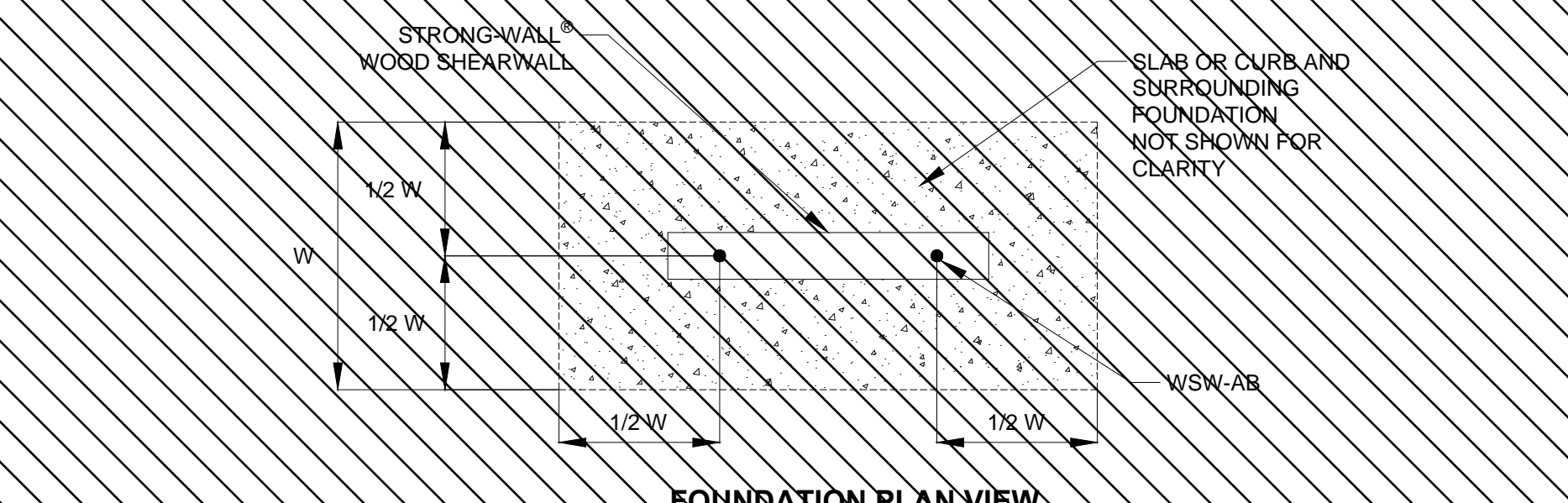
WSW ANCHOR BOLTS



WSW ANCHOR BOLT EXTENSION



WSW ANCHOR BOLT TEMPLATES



FOUNDATION PLAN VIEW

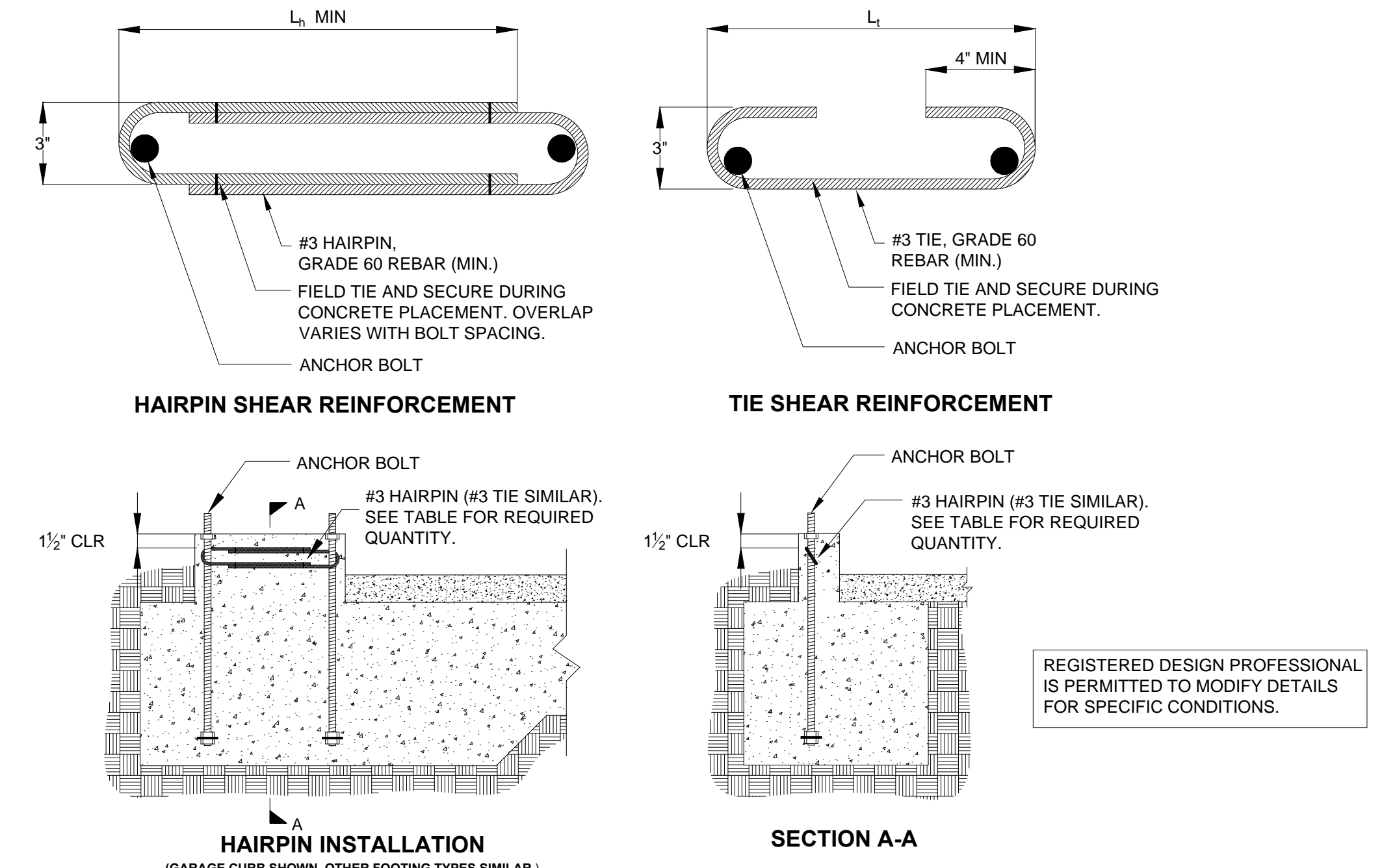
WSW ANCHORAGE SOLUTIONS FOR 2600 PSI CONCRETE								
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSW-AB7/8 ANCHOR BOLT		WSW-AB1 ANCHOR BOLT		l _e (in.)	
			ASD ALLOWABLE TENSION (lb.)	W (in.)	ASD ALLOWABLE TENSION (lb.)	W (in.)		
SEISMIC	CRACKED	STANDARD	13,900	27	9	16,100	33	11
		HIGH STRENGTH	24,900	43	16	33,000	51	12
		STANDARD	27,100	46	16	36,300	54	13
	UNCRACKED	STANDARD	12,500	24	8	15,700	28	10
		HIGH STRENGTH	25,300	38	13	32,300	44	15
		STANDARD	27,100	40	14	35,300	47	16
WIND	CRACKED	STANDARD	5,100	14	6	6,200	16	6
		HIGH STRENGTH	9,300	18	6	12,500	22	8
		STANDARD	13,100	27	9	17,100	32	11
	UNCRACKED	STANDARD	13,100	27	9	17,100	32	11
		HIGH STRENGTH	23,100	35	11	27,300	42	14
		STANDARD	27,100	42	14	35,300	50	17

NOTES:
 1. ANCHORAGE DESIGNS CONFORM TO ACI 318-11 APPENDIX D AND ACI 318-14 WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.
 2. ANCHOR STRENGTH INDICATES REQUIRED GRADE OF WSW-AB ANCHOR BOLT. STANDARD (ASTM A1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A193).
 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C - F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SD-C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4, 3 AND ACI 318-14 SECTION 17.2.3.4.3.
 4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SD-C.
 5. FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN, SIZE AND REINFORCEMENT, BY OTHERS. THE REGISTERED DESIGN PROFESSIONAL MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.
 6. REFER TO 1/WSW FOR d_s.

WSW ANCHORAGE SOLUTIONS FOR 4000 PSI CONCRETE								
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSW-AB7/8 ANCHOR BOLT		WSW-AB1 ANCHOR BOLT		l _e (in.)	
			ASD ALLOWABLE TENSION (lb.)	W (in.)	ASD ALLOWABLE TENSION (lb.)	W (in.)		
SEISMIC	CRACKED	STANDARD	12,300	26	9	16,000	31	11
		HIGH STRENGTH	25,200	41	14	32,700	48	16
		STANDARD	27,100	43	15	35,300	51	17
	UNCRACKED	STANDARD	12,000	22	8	16,300	27	9
		HIGH STRENGTH	25,300	36	13	32,700	42	14
		STANDARD	27,100	38	13	35,300	44	15
WIND	CRACKED	STANDARD	5,000	13	6	5,600	14	6
		HIGH STRENGTH	8,800	19	7	10,200	24	7
		STANDARD	13,100	25	9	17,100	30	10
	UNCRACKED	STANDARD	15,700	28	10	20,100	33	11
		HIGH STRENGTH	19,700	32	11	25,300	38	13
		STANDARD	23,200	36	12	29,300	44	15

WSW ANCHORAGE SOLUTIONS FOR 4500 PSI CONCRETE								
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSW-AB7/8 ANCHOR BOLT		WSW-AB1 ANCHOR BOLT		l _e (in.)	
			ASD ALLOWABLE TENSION (lb.)	W (in.)	ASD ALLOWABLE TENSION (lb.)	W (in.)		
SEISMIC	CRACKED	STANDARD	12,600	23	8	16,000	27	9
		HIGH STRENGTH	24,800	36	12	32,100	42	14
		STANDARD	27,100	38	13	35,300	45	15
	UNCRACKED	STANDARD	12,700	20	7	15,700	23	8
		HIGH STRENGTH	24,100	31	11	33,500	37	13
		STANDARD	27,100	34	12	35,300	39	13
WIND	CRACKED	STANDARD	5,400	12	6	6,800	14	6
		HIGH STRENGTH	9,300	16	6	11,600	20	7
		STANDARD	13,100	22	8	17,100	26	9
	UNCRACKED	STANDARD	15,300	24	8	21,400	30	10
		HIGH STRENGTH	19,300	28	10	25,800	34	12
		STANDARD	23,600	32	11	31,000	38	13

STRONG-WALL® WOOD SHEARWALL TENSION ANCHORAGE SCHEDULE 2,500, 3,000 AND 4,500 PSI



STRONG-WALL® WOOD SHEARWALL SHEAR ANCHORAGE

MODEL	L ₁ OR L ₂ (in.)	SEISMIC ³		WIND ⁴		ASD ALLOWABLE SHEAR LOAD, V (lb.) ⁵	
		SHEAR REINFORCEMENT	MINIMUM CURB/STEMWALL WIDTH (in.)	SHEAR REINFORCEMENT	MINIMUM CURB/STEMWALL WIDTH (in.)	UNCRACKED	
						UNCRACKED	CRACKED
WSW12	10 1/4	(1) #3 HAIRPIN	8 ⁵	SEE NOTE 6	6	1,035	740
WSW18	15	(1) #3 HAIRPIN	8 ⁵	(1) #3 HAIRPIN	6	HAIRPIN REINFORCEMENT ACHIEVES MAXIMUM ALLOWABLE SHEAR LOAD OF THE WSW	
WSW24	19	(2) #3 HAIRPINS	8 ⁵	(1) #3 HAIRPIN	6		

NOTES:
 1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.
 2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE) OR BRACED WALL PANEL APPLICATIONS.
 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SD-C MAY USE WIND ANCHORAGE SOLUTIONS.
 4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SD-C.
 5. WHERE NOTED, MINIMUM CURB/STEMWALL WIDTH IS 6 INCHES WHEN STANDARD STRENGTH ANCHOR BOLT IS USED.
 6. USE (1) #3 TIE FOR WSW12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
 7. #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSW SHEAR ANCHORAGE SOLUTIONS.

STRONG-WALL® WSW SHEAR ANCHORAGE SCHEDULE AND DETAILS

REVISIONS	DATE	NO.
0	07/01/2016	

HOME OFFICE:
 5956 W. LAS POSITAS BLVD.
 PLEASANTON, CA 94588
 TEL: (800) 999-5099

STRONG-WALL® WSW ANCHORAGE DETAILS ENGINEERED DESIGNS

STRONG-WALL® WSW ANCHORAGE SCHEDULE 2,500, 3,000 AND 4,500 PSI

STRONG-WALL® WSW ANCHORAGE SCHEDULE AND DETAILS

NAME: _____
 DATE: 07-01-2016
 SCALE: N.T.S.
 CHECKED: _____
 SHEET: _____

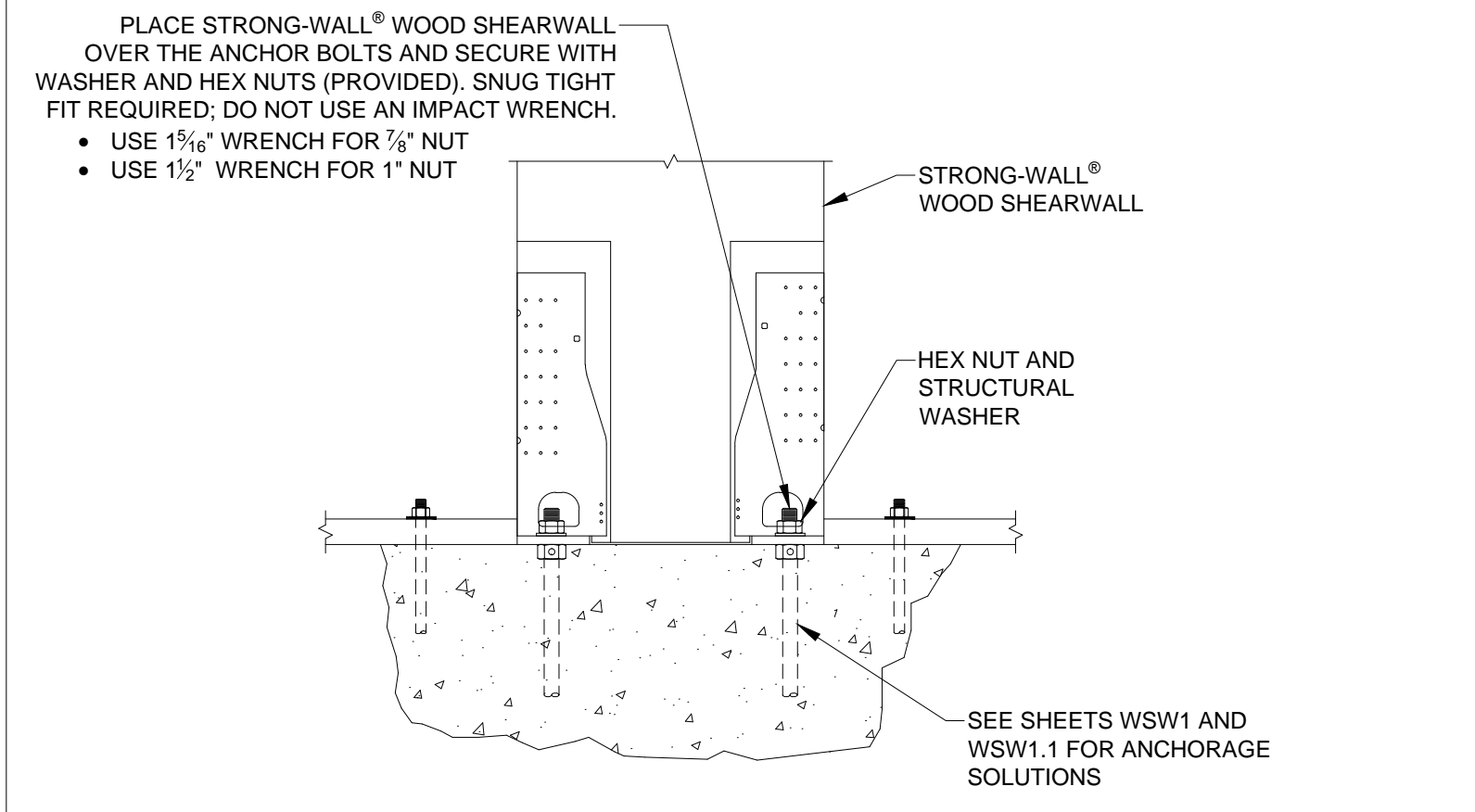
WSW1
 OF SHEETS: _____
 JOB NO.: _____

STRONG-WALL® WOOD SHEARWALL MODELS

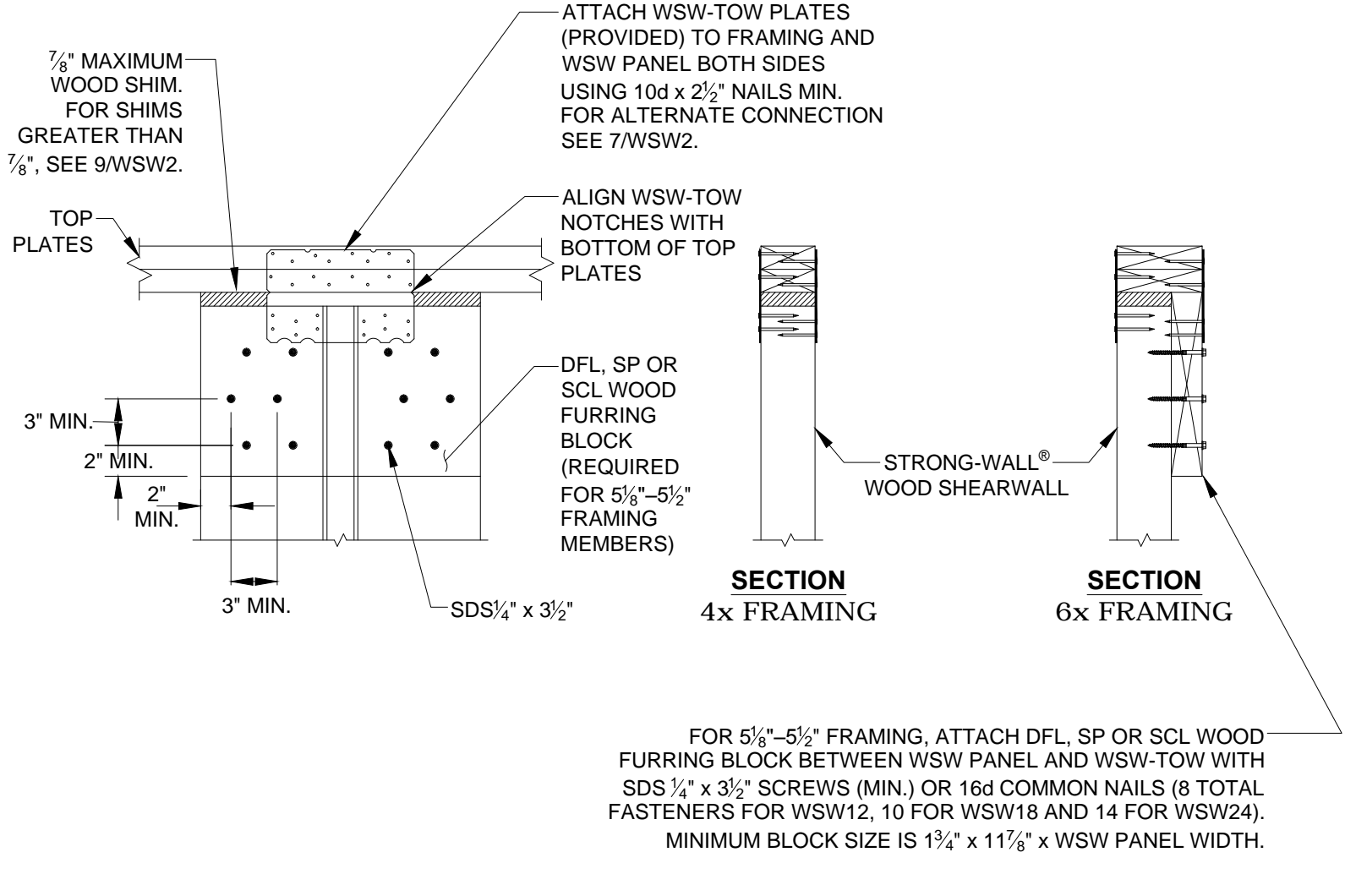
MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS		TOTAL WALL WEIGHT (lb.)
			QUANTITY	DIA. (in.)	
WSW12x7	12	78	2	7/8	100
WSW18x7	18	78	2	7/8	145
WSW12x7.5	12	85 1/2	2	7/8	110
WSW18x7.5	18	85 1/2	2	7/8	155
WSW12x8	12	93 1/4	2	7/8	115
WSW18x8	18	93 1/4	2	7/8	165
WSW24x8	24	93 1/4	2	1	225
WSW12x9	12	105 1/4	2	7/8	130
WSW18x9	18	105 1/4	2	7/8	185
WSW24x9	24	105 1/4	2	1	245
WSW12x10	12	117 1/4	2	7/8	140
WSW18x10	18	117 1/4	2	7/8	205
WSW24x10	24	117 1/4	2	1	270
WSW12x11	12	129 1/4	2	7/8	150
WSW18x11	18	129 1/4	2	7/8	220
WSW24x11	24	129 1/4	2	1	295
WSW12x12	12	141 1/4	2	7/8	165
WSW18x12	18	141 1/4	2	7/8	240
WSW24x12	24	141 1/4	2	1	320
WSW18x13	18	153 1/4	2	7/8	255
WSW24x13	24	153 1/4	2	1	345
WSW24x14	24	168	2	1	375
WSW24x16	24	192	2	1	425
WSW18x20	18	240	2	7/8	385
WSW24x20	24	240	2	1	520

NOTES:
 1. FOR HEIGHTS NOT LISTED, ORDER THE NEXT TALLEST PANEL AND TRIM TO FIT. MINIMUM TRIMMED HEIGHT FOR ALL PANELS IS 74 1/2".
 2. ALL PANELS COME WITH TWO PRE-ATTACHED HOLD-DOWNS, TWO STANDARD HEX NUTS, TWO STRUCTURAL WASHERS, TWO WSW-TOW PLATES AND INSTALLATION INSTRUCTIONS.
 3. ALL PANELS ARE 3/2" THICK.

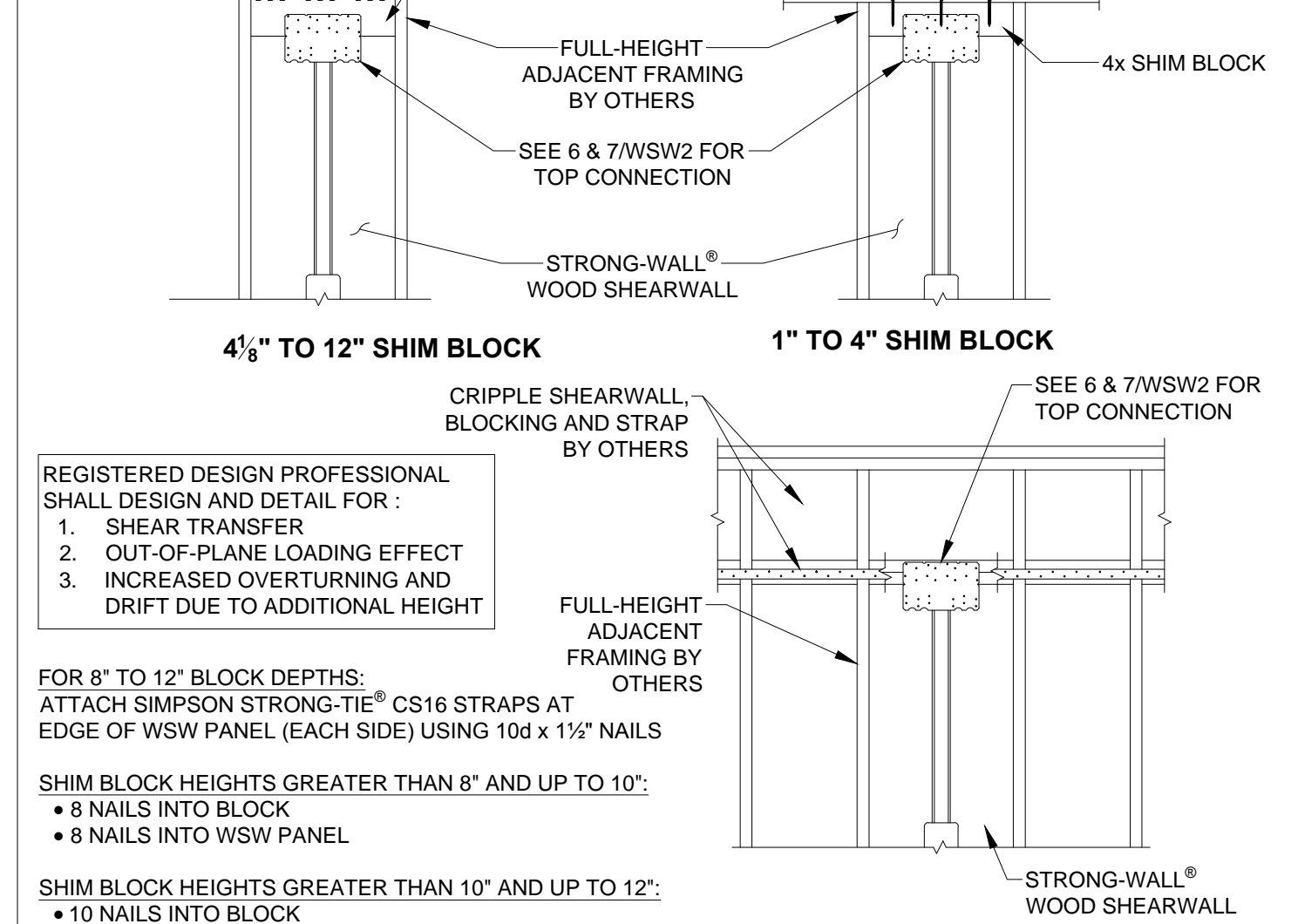
REGISTERED DESIGN PROFESSIONAL IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



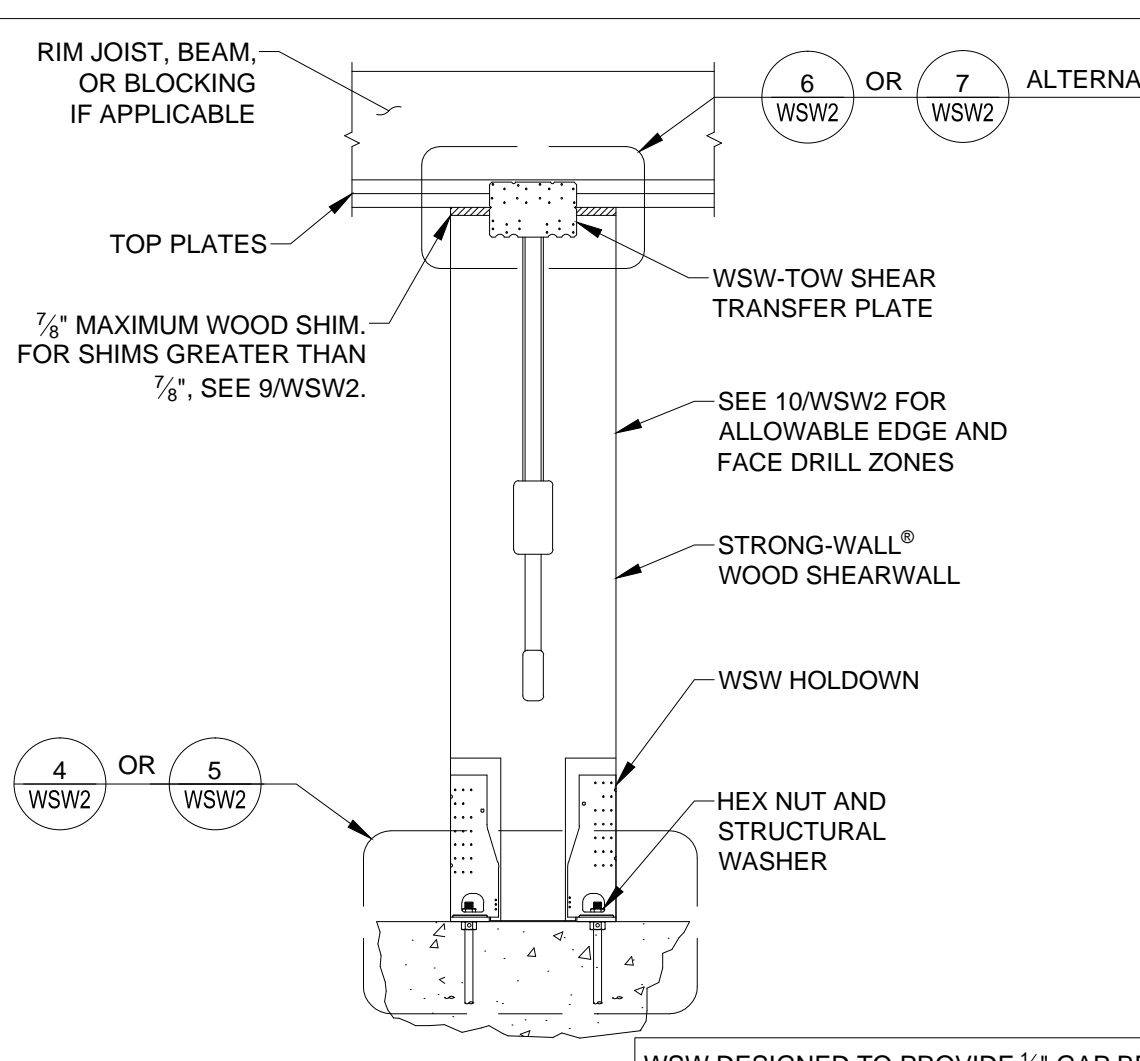
REGISTERED DESIGN PROFESSIONAL IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



REGISTERED DESIGN PROFESSIONAL IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

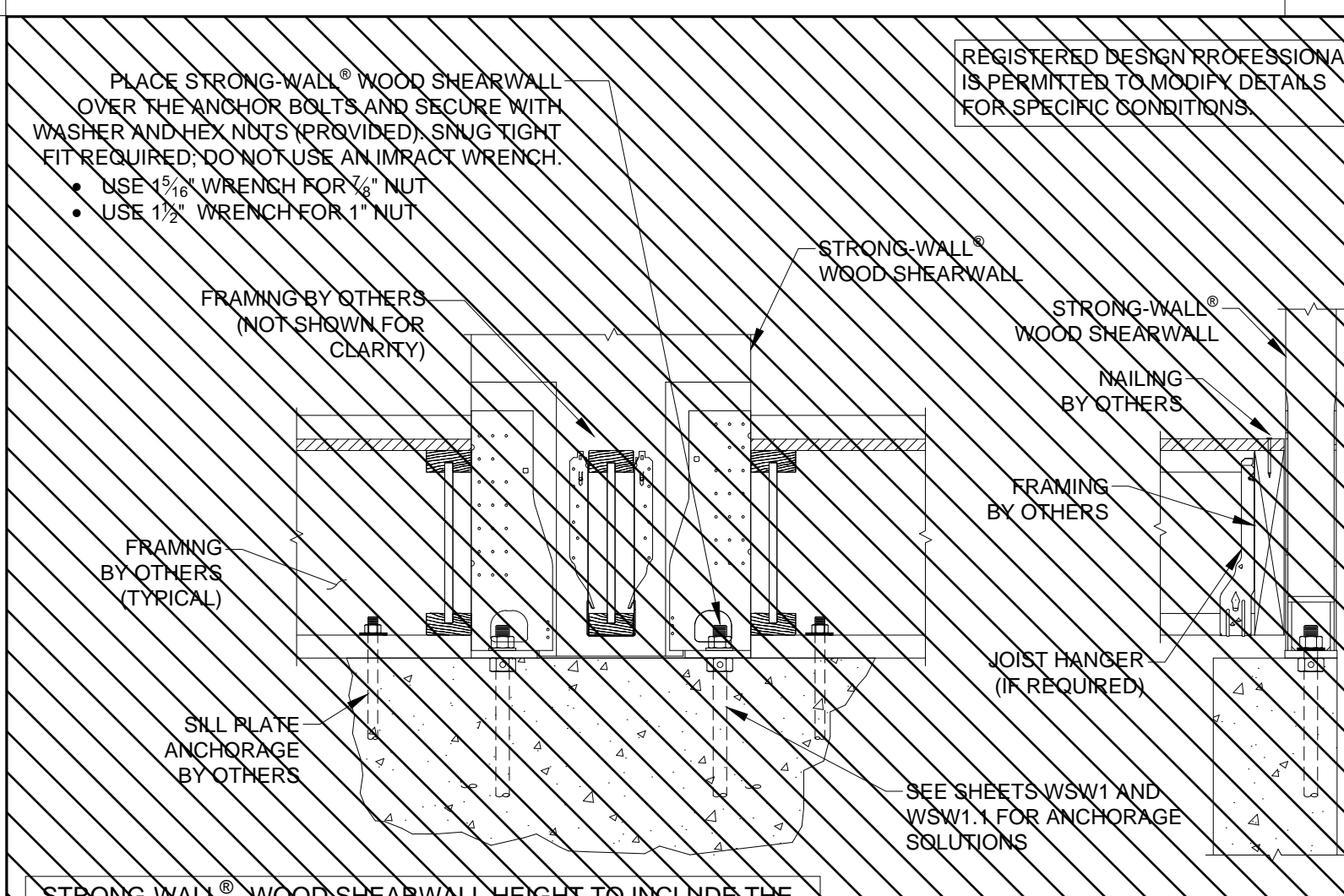


STRONG-WALL® WSW MODELS

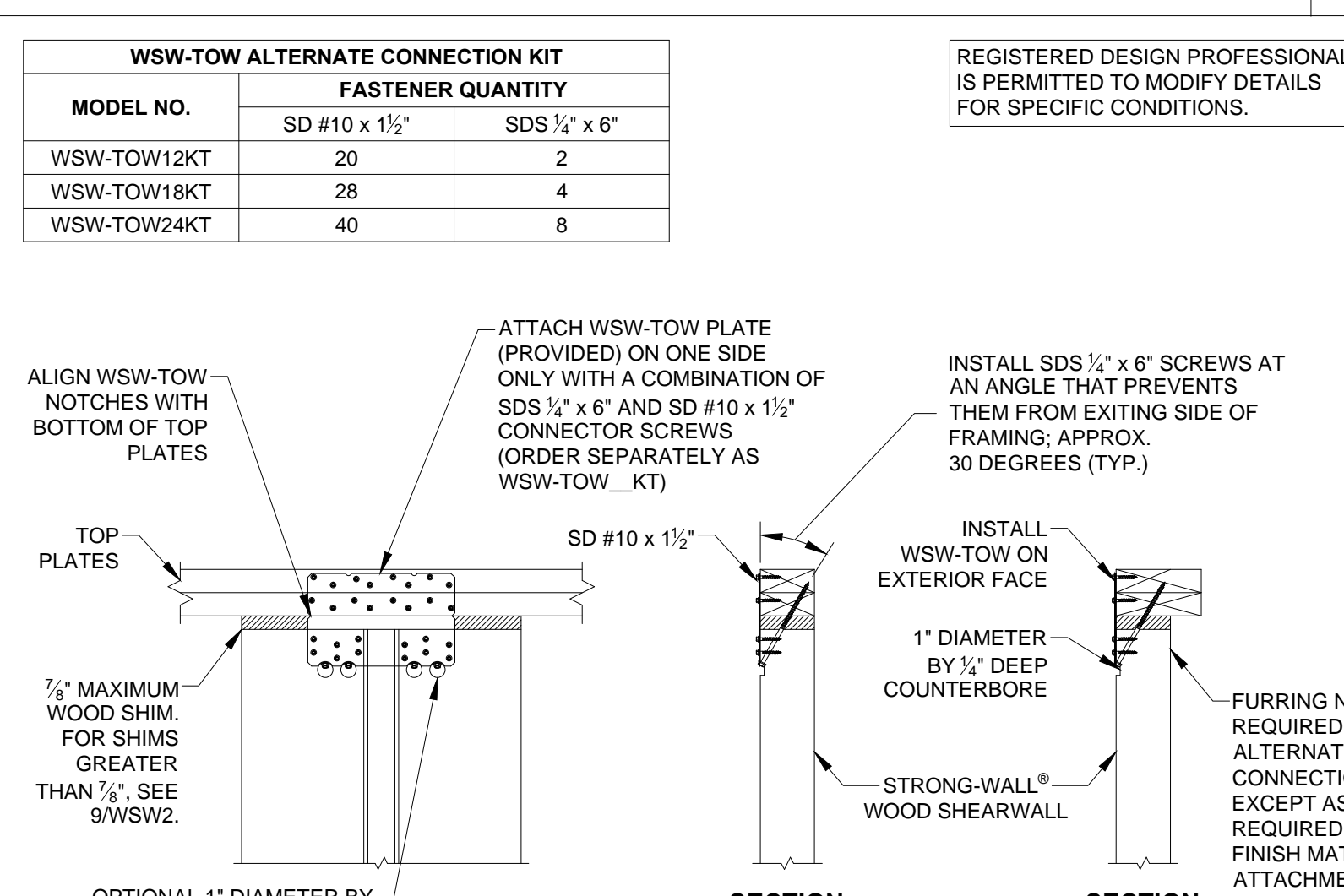


REGISTERED DESIGN PROFESSIONAL IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

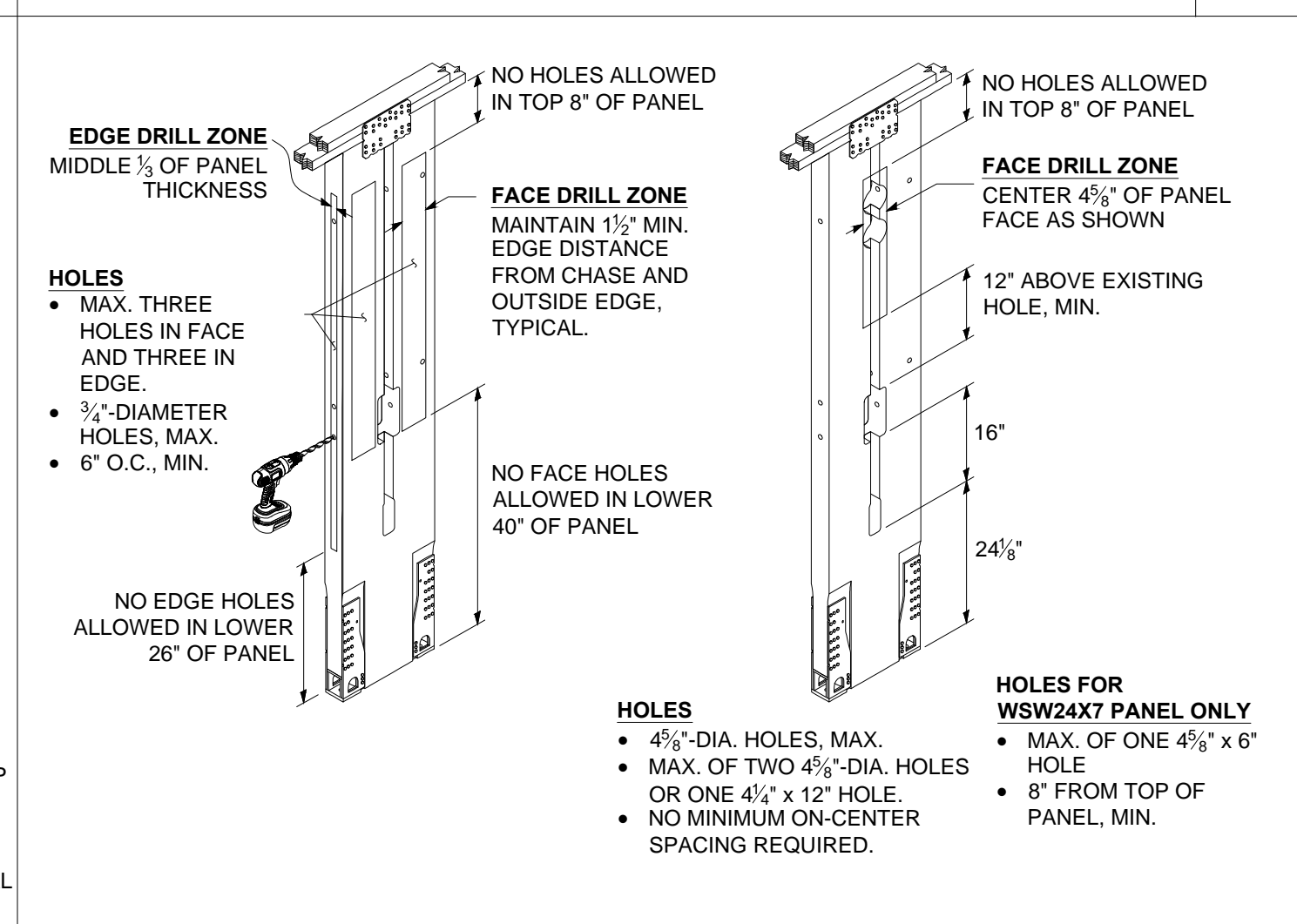
STANDARD INSTALLATION BASE CONNECTION



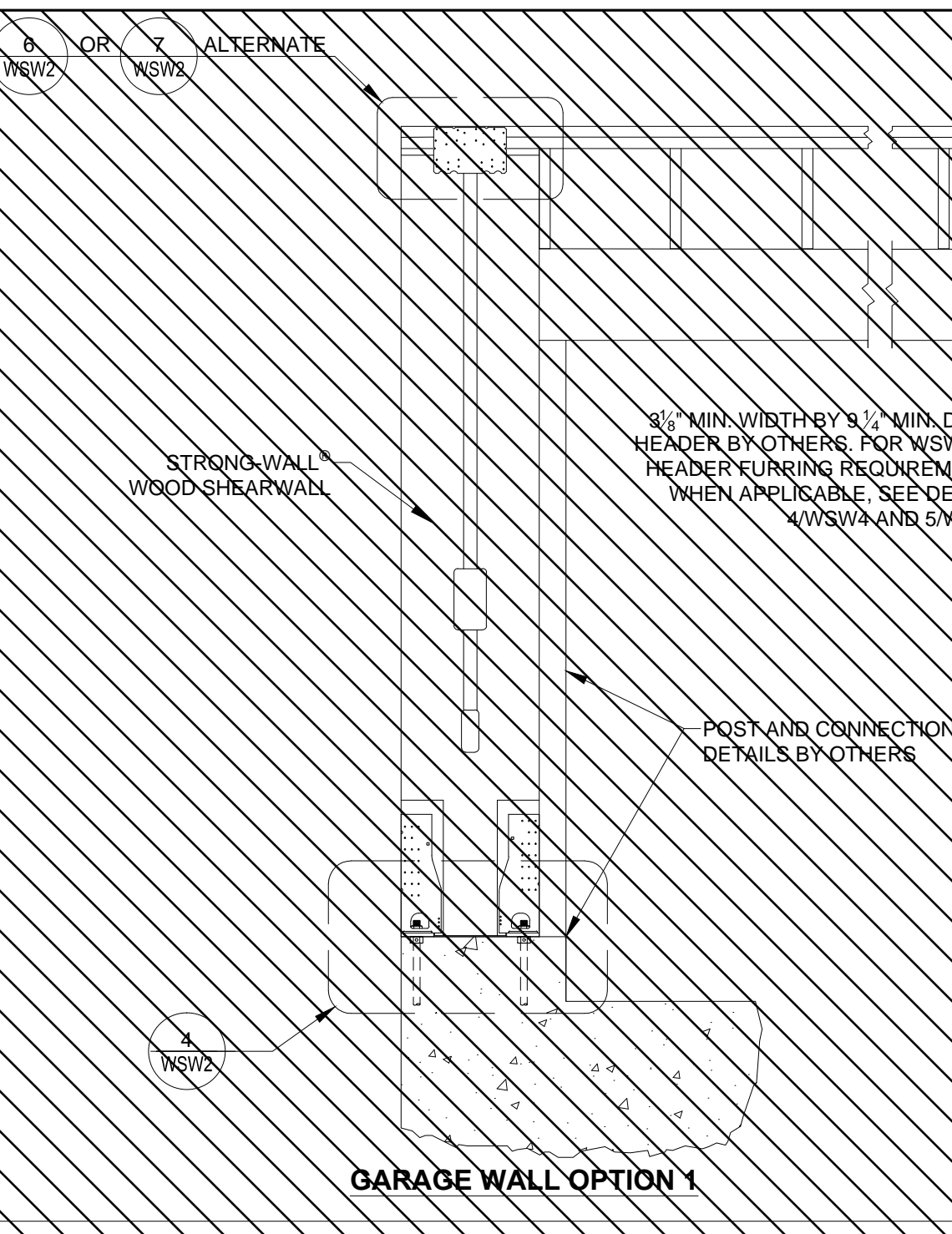
STANDARD TOP CONNECTION



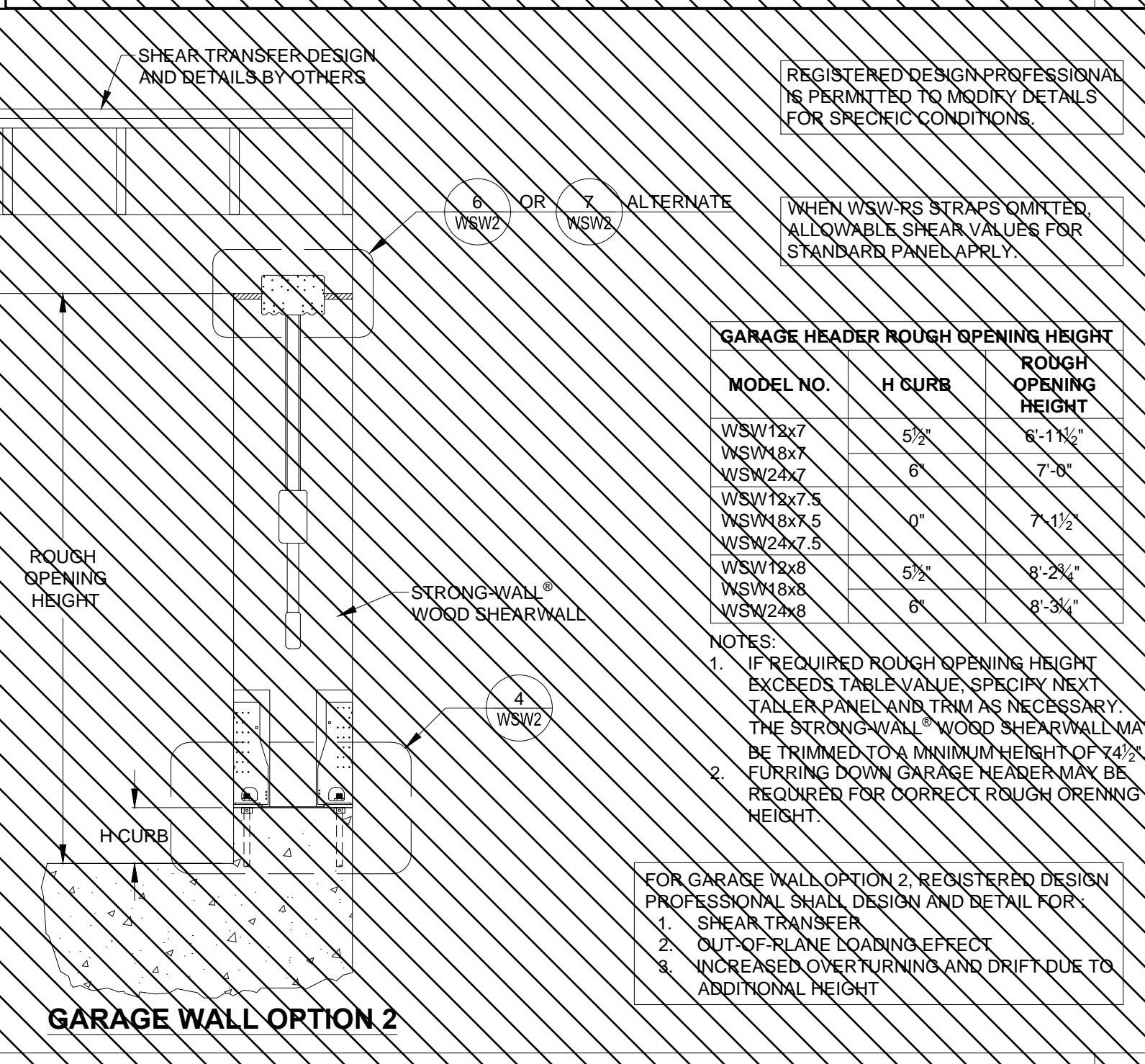
TOP OF WALL HEIGHT ADJUSTMENTS



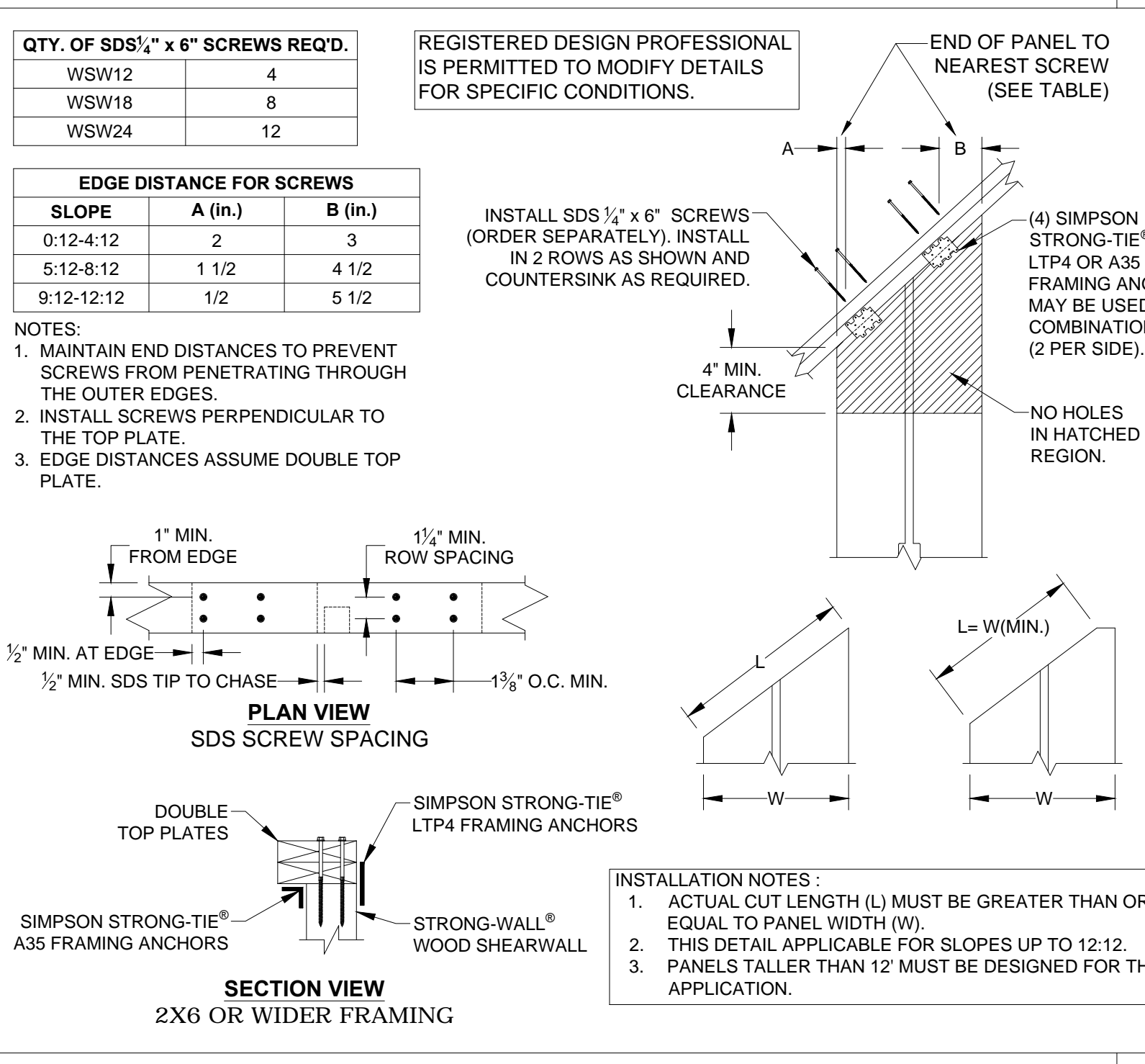
SINGLE STORY WSW ON CONCRETE



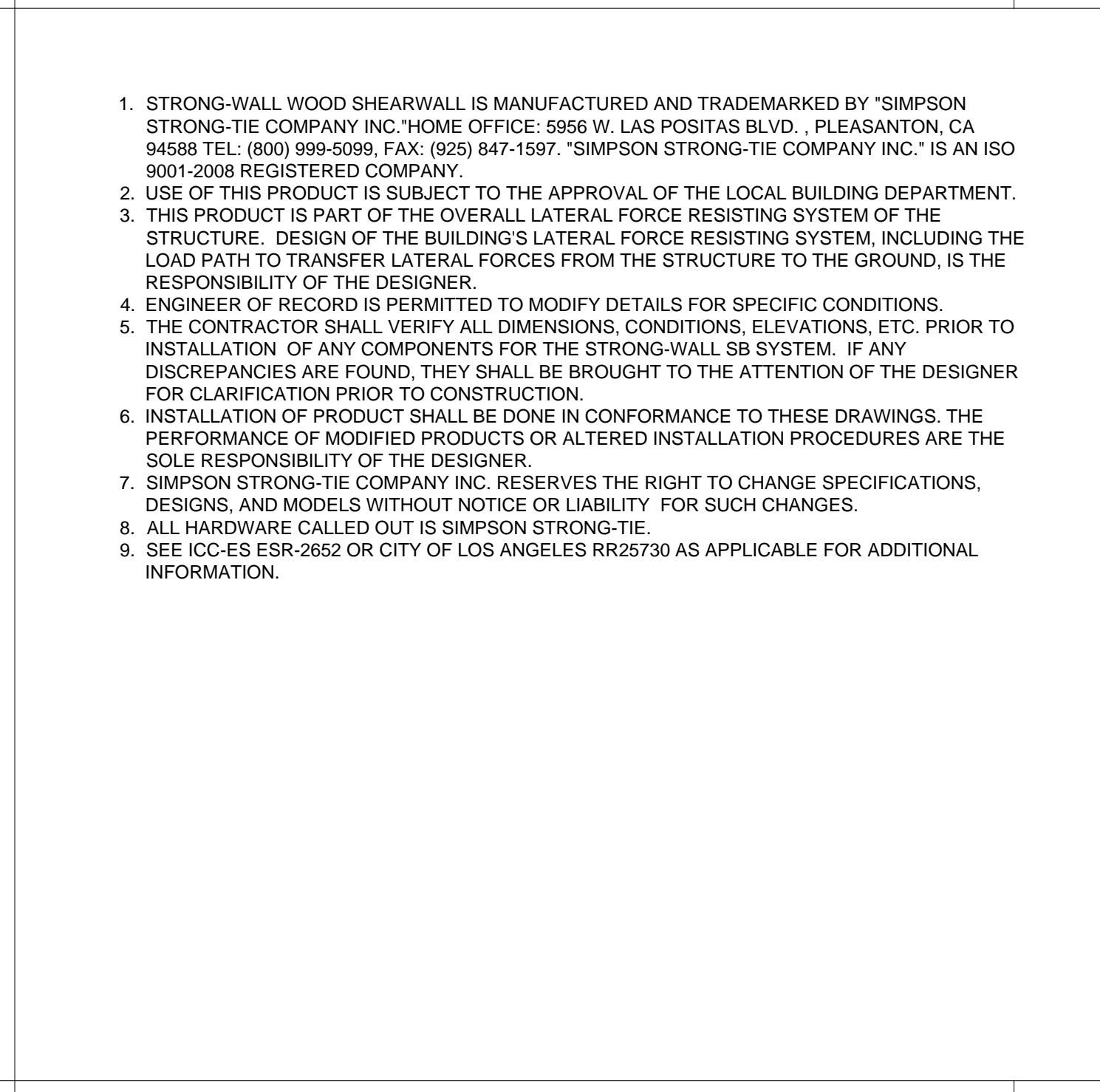
WOOD FLOOR SYSTEM BASE CONNECTION



ALTERNATE TOP CONNECTION



TRIM ZONE AND ALLOWABLE HOLES



ALTERNATE WSW GARAGE FRONT OPTIONS

RAKE WALL

NOTES

NOTES

REVISIONS

NO.	DATE	DESCRIPTION
0	07/01/2016	FIRST RELEASE - 2015 BC

STRONG-WALL® WSW FRAMING DETAILS ENGINEERED DESIGNS

STRONG-TIE COMPANY, INC.

HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588
 TEL: (800) 999-5099

STRONG-TIE

THERE IS NO EQUAL

NAME: _____
 DATE: 07-01-2016
 SCALE: N.T.S.
 CHECKED: _____
 SHEET: **WSW2**
 OF SHEETS: _____
 JOB NO.: _____