AVERAGE BUILDING ELEVATION						
PROPOSED RESIDENCE						
WALL	WALL SEGMENT	MIDPT, ELEV.	WALL SEGMENT x ELEV.			
A	20'	84.5'	1690			
m	21.5'	82'	1763			
С	11.67'	81'	945.27			
Ω	12'	81'	972			
E	11.67'	81'	945.27			
F	17'	80.5'	1368.5			
G	25'	80.5'	2 <i>0</i> 25			
\vdash	9.75'	81'	794.62			
1	2Ø'	81.5'	163Ø			
J	34.67'	84.5	2929.6			
\vdash	12.5'	85.5'	1068.75			
	4'	85.5'	342			
M	12.5'	85'	1062.5			
TOTAL	212.26'		17536.53			
AVERAGE BUILDING ELEVATION = 17536.53/212.26' =82.61' MAXIMUM BUILDING HEIGHT = 82.61' + 30.0' = 112.61'						

BASEMENT FLOOR AREA CALCULATION					
WALL	LENGTH	COVERAGE	RESULT		
Д	7.67'	36.4%	2.8%		
m	2'	33%	.7%		
С	18'	18.6%	3.5%		
D	2Ø'	8%	1.6%		
TOTAL	47.67'		8.6%		

PORTION OF EXCLUDED BASEMENT FLOOR AREA:

530 (ACTUAL SQ, FT. W/ GARAGE) X (8.6/47.67) = 95.61 SQ. FT.

AREA OF BASEMENT EXCLUDED = 530-95.61 = 434.4 SQ. FT.

GROSS FLOOR AREA

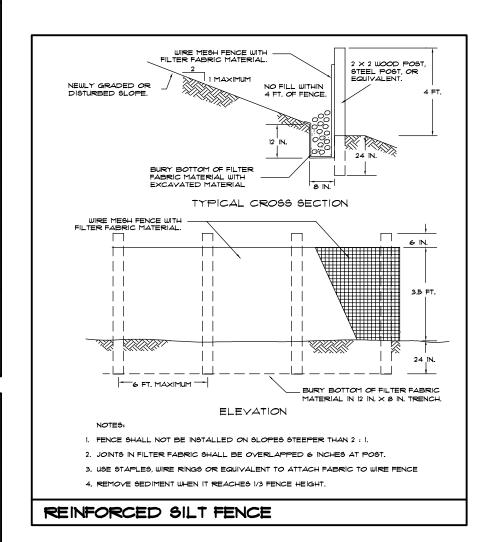
PROPOSED BUILDING HEIGHT = 111.17'

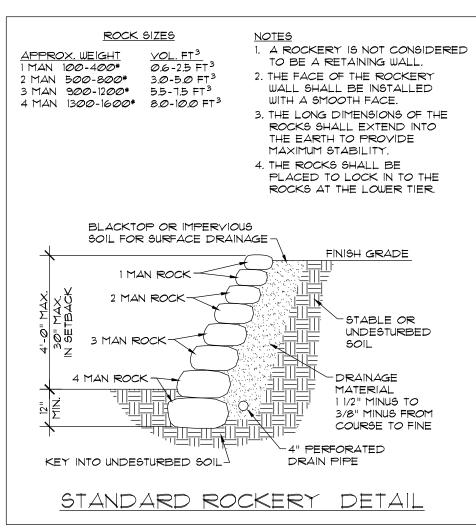
LOWER FLOOR W/ GARAGE MAIN FLOOR W/ STAIR UPPER FLOOR W/ STAIR	53 <i>0</i> 1577 1254	SQ. FT. SQ. FT. SQ. FT.
TOTAL BASEMENT EXCLUDED	3361 95.61	SQ. FT. SQ. FT.
TOTAL	3265	SQ. FT.
LOT AREA	7,297	SQ. FT.
SQUARE FOOTAGE ALLOWED (45%)	3283.6	SQ. FT.

IMPERVIOUS SURFACE	
PROPOSED HOME W/ O.H. WATERPROOF DECK FRONT PORCH WALKS, DRIVE AND PATIO	1940 SQ. FT. 637 SQ. FT. 20 SQ. FT. 629 SQ. FT.
TOTAL 3,226 S	3Q. FT. (44.2%)
LOT AREA 1,291	SQ. FT.
ALLOWABLE 3,284 S	Q. FT. (45%)

LOT COVERAGE		
MAIN STRUCTURE ROOF AREA DRIVEWAYS, WALK, PATIO WATERPROOF DECKS TOTAL	1960 629 637 3,226	SQ. FT. SQ. FT. SQ. FT. SQ. FT.
LOT AREA	7,297	SQ. FT.
PROPOSED LOT COVERAGE	44.	2%
SQUARE FOOTAGE ALLOWED (45%)	3284	SQ. FT.

HARDSCAPE CALC		
LOT AREA	7,297	SQ. FT.
WATERPROOF DECK FRONT & SIDE WALK PATIO ROCKERY	284 253 88 86	SQ. FT. SQ. FT. SQ. FT. SQ. FT.
TOTAL	711	SQ. FT.
HARDSCAPE ALLOWED	12% (875 SQ. F	·†.)
PROPOSED HARDSCAPE	9.7% (711 SQ. F	=T.)





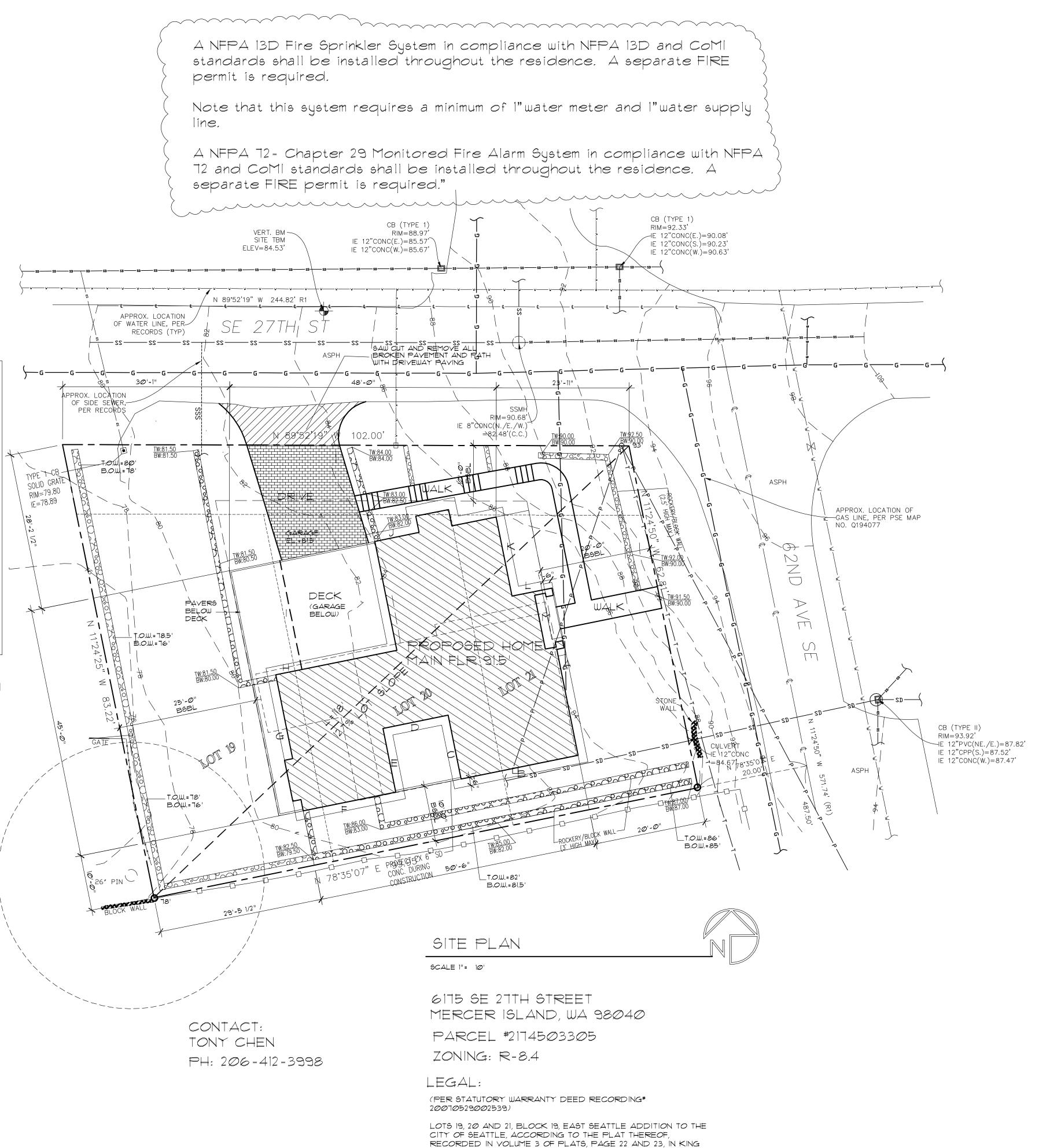
MICC 19.02.020(F)(3)(d) requires noxious weeds to be removed during new development proposals. Please add a note to the plan set that states:

"Development proposals for a new single-family home shall remove Japanese knotweed (Polygonum cuspidatum) and Regulated Class A, Regulated Class B, and Regulated Class C weeds identified on the King County Noxious Weed list, as amended, from required landscaping areas established pursuant to subsection 19.02.020(F)(3)(a). New landscaping associated with new single-family home shall not incorporate any weeds identified on the King County Noxious Weed list, as amended. Provided, that removal shall not be required if the removal will result in increased slope instability or risk of landslide or erosion."

Pursuant to MICC 19.02.050(D) any "...rockeries, retaining walls, fences, or any combination thereof, are limited to a maximum height of 42 inches within that portion of any required yard which lies within 20 fee of any improved street." Please indicate the height of the rock wall that falls within 20 feet of the public-right-of way.

If the height exceeds the 42-inch height limitation you can apply for a fence height deviation pursuant to MICC 19.02.050(F).

Fence height deviation required for 4' retaining walls.



COUNTY, WASHINGTON±

TOGETHER WITH PORTION OF VACATED CABLE AVENUE "SOUTHEAST 21TH STREET" ADJOINING ON THE NORTH.

JOB NO: 23006
DATE: 12/11/23
DRWN. BY: TH
REVISED:



ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE 2018 EDITION OF THE I.B.C. / I.R.C. BUILDING CODE REQUIREMENTS AND ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.

BUILDING

TYPE V-B SITE CLASS: D OCCUPANCY GROUP: R3 WIND EXPOSURE: B

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD, PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS AND STIFFENINGS HAVE BEEN INSTALLED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL DISCREPANCIES OR CONFUSIONS TO THE DESIGNER AT THE TIME THEY ARE NOTED.

FOUNDATION

UNLESS A SOILS INVESTIGATION BY A QUALIFIED SOILS ENGINEER IS PROVIDED, FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 1500 PSF. EXTERIOR FOOTINGS SHALL BEAR 1'-6" (MINIMUM) BELOW FINISHED GRADE. ALL FOOTINGS TO BEAR ON FIRM UNDISTURBED EARTH BELOW ORGANIC SURFACE SOILS. BACKFILL TO BE THOROUGHLY COMPACTED PER SPECIFICATIONS. PROVIDE (2) *4 (MIN.) CONTINUOUS BOTTOM OF ALL WALLS AND FOOTINGS.

MINIMUM

CONCRETE

CLASS AND USE	f'c	SLUMP	SACKS/C.Y.
A - FOOTINGS AND FOUNDATIONS	25 <i>00</i>	3 - 4	5-1/2
B - SLABS ON GRADE	25 <i>00</i>	3 - 4	5-1/2

NOTE: 3000 PSI CONCRETE IS FOR WEATHERING PURPOSES ONLY. NO SPECIAL INSPECTION REQUIRED

- I. AIR-ENTRAINING AGENT (5% TO 1%) TO BE USED IN ALL CONCRETE FLATWORK EXPOSED TO WEATHER
- 2. POZZOLITH 300 SERIES (4 OZ. PER 100* OF CEMENT) TO BE USED IN ALL CONCRETE.
- 3. MIX MAY BE DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 1905 OF THE IBC.
- 4. WATER CEMENT RATIO PER IBC TABLE 1904.2.2 & 1904.3

REINFORCING STEEL

ASTM A615 GRADE 40, REINFORCING STEEL DETAILS SHALL BE PREPARED BY AN EXPERIENCED DETAILER APPROVED BY THE DESIGNER AND CONFORM TO STANDARD PRACTICE OUTLINED IN ACI REPORT 315. NOTE: GRADE 40 FOR *4 BARS AND SMALLER, GRADE 60 FOR *5 BARS AND LARGER.

CONCRETE COVER OF REINFORCING

- CONCRETE POURED AGAINST EARTH
- FORMED CONCRETE WITH EARTH BACKFILL.
- BEAMS AND COLUMNS (STIRRUPS, TIES) WALLS EXPOSED TO WEATHER, SLABS ON MOISTURE BARRIER
- WALLS, INSIDE FACE.

LAP COLUMN VERTICALS, CLASS "A" CONCRETE AND MASONRY COLUMN AND WALL VERTICALS 40 DIAMETERS (2' MIN.) LAP ALL OTHER REINFORCING 30 DIAMETERS (2' MIN.). SPLICES AT TENSION REGIONS SHALL NOT BE PERMITTED.

FRAMING

ALL FRAMING TO COMPLY WITH 2018 IBC. NAIL SIZES AND SPACING TO CONFORM TO IRC TABLE 602.3(1)

ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED. EXTERIOR HANGERS TO BE SIMPSON ZMAX

STRUCTUAL DESIGN IS BASED ON THE FOLLOWING ALLOWABLE STRESSES (UNITES IN PSI):

WOOD

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.

16. FURNISH TO THE FOLLOWING MINIMUM	STANDARDS:
	R NO. 2 M BASE VALUE, Fb = 850 PSI
	.AS FIR NO. M BASE VALUE, Fb = 1000 PS
BEAMS: (4x MEMBERS) HEM-F	FIR NO. 2
(INCL.6X AND LARGER) DOUG MINIM	LAS FIR NO. UM BASE VALUE, Fb = 1350 PSI
,	LAS FIR NO. 2 IM BASE VALUE, Fc = 1300 PSI
	_AS FIR NO. 2 M BASE VALUE, Fc = 925 PSI
STUDS, PLATES & MISC. FRAMING: HEM	FIR STANDARD GRADE
EXTERIOR TOP PLATES: DOUG	-FIR STUD GRADE

HEM-FIR COMMERCIAL DEX DECKING: (2×6 TO 4×8) MINIMUM BASE VALUE, Fb = 1350 PSI LOADING: ROOF: 15 PSF DEAD LOAD + 25 PSF LIVE LOAD = 40 PSF

10 PSF DEAD LOAD + 40 PSF LIVE LOAD = 50 PSF FLOOR: CEILING: 5 PSF DEAD LOAD + 5 PSF LIVE LOAD = 10 PSF 10 PSF DEAD LOAD + 60 PSF LIVE LOAD = 70 PSF DECK: INTERIOR PARTITION: 10 PSF EXTERIOR PARTITION: 10 PSF

BOLT HEADS AND NUTS BEARING AGAINST WOOD TO BE PROVIDED WITH FLAT CUT WASHERS. WOOD BEARING ON OR INSTALLED WITHIN I" OF MASONRY OR CONCRETE TO BE TREATED WITH AN APPROVED PRESERVATIVE. SOLID BLOCKING OF NOT LESS THAN 2" THICKNESS SHALL BE PROVIDED AT ENDS AND AT ALL SUPPORT OF JOISTS AND RAFTERS. BETWEEN SUPPORTS PROVIDE BLOCKING OR APPRIVED BRIDGING AT 8'-0" O.C. FOR FLOOR JOISTS, 10'-0" FOR ROOF JOISTS, TYPICAL SILL BOLTS TO BE 5/8" DIAMETER AT 4'-0" O.C. EMBED 10", ALL METAIL FRAMING ANCHORS AND HANGERS SHOWN ON DRAWINGS SHALL BE "STRONG TIE CONNECTORS" AS MANUFACTURED BY SIMPSON COMPANY OR APPROVED EQUAL.

WOOD TRUSSES

SHALL BE FACTORY FABRICATED TRUSSES. DESIGN AND FABRICATION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. ENGINEERING DESIGN AND SHOP DRAWINGS BEARING THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON AND SHOWING ALL DETAILS OF CONSTRUCTION INCLUDING BRACING.

TRUSSES SHALL BE DESIGNED FOR THE UNIFORM LOADING AS FOLLOWS:

33 PSF OF TRIBUTARY AREA BOTTOM CORD 10 PSF OF TRIBUTARY AREA

FABRICATOR SHALL BE APPROVED BY THE DESIGNER.

DRAFTSTOPPING (IRC 302.12)

CONCEALED SPACES AT UPPER FLOOR OPEN TRUSS FRAMING SHALL BE DIVIDED IN APPROXIMATE EQUAL SPACES NOT TO EXCEED 1,000 S.F. AND SHALL CONSIST OF 1/2" GYPSUM BOARD OR 3/8" WOOD STRUCTURAL PANELS. DRAFTSTOPPING SHALL BE INSTALLED PARALLEL TO FRAMING MEMBERS. THE INTEGRITY OF THE DRAFTSOPS SHALL BE MAINTAINED.

STRUCTURAL GLUE-LAMINATED TIMBER

GLUE LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND AITC STANDARDS. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb=2400 PSI. FV=165 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb=2400 PSI, FV=165 PSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS TO 2,000' RADIUS, UNLESS SHOWN OTHERWISE ON PLANS. GLULAM COLUMNS SHALL BE DOUGLAS FIR COMBINATION NO. 5, Fc=2400 PSI, E=2,000,000 PSI.

PLYWOOD / OSB

EACH SHEET SHALL BEAR THE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, ALL GRADING SHALL CONFORM 3) RECESSED LIGHTING FIXTURES; WHEN INSTALLED IN CONTACT WITH THE TO PS I, USE THICKNESS AND NAILING AS SHOWN ON THE DRAWINGS, ALL PLYWOOD SHALL BE C-D INTERIOR GRADE WITH EXTERIOR GLUE. EXCEPT AS OTHERWISE SHOWN OR NOTED, PROVIDE 8d AT 6" O.C. ON CENTER AT SUPPORTED PANEL EDGES AND 8d AT 12" ON CENTER ON OTHER SUPPORTING MEMBERS FOR WALLS, ROOF AND FLOORS. NOTE: EQUIVALENT RATED ORIENTED STRAND BOARD (0.5.B.) MAY BE USED IN LIEW OF PLYWOOD CALLED OUT. AND Ø.131" DIAMETER P-NAILS MAY BE USED IN LIEU OF 8d NAILS.

ROOF DIAPHRAGM: 1/2" PLYWOOD (PANEL INDEX = 24/16, WITH 8d NAILS AT 6" O.C. AT SUPPORTED PANEL AND AT 12" O.C. AT FIELD (TYPICAL UNLESS NOTED OTHERWISE).

FLOOR DIAPHRAGM: 3/4" PLYWOOD (PANEL INDEX = 24/16) WITH 10d NAILS AT 6" O.C. AT SUPPORTED PANEL EDGES AND AT 12" O.C. AT FIELD (TYPICAL UNLESS NOTED OTHERWISE ON PLAN). OPTIONAL TO USE Ø.148 DIAMETER P-NAILS IN LIEU OF IØD NAILS

STRUCTURAL STEEL

STRUCTURAL GRADE ASTM A36, Fy = 36,000 PSI. PIPE COLUMNS ASTM A53, GRADE B, Fy = 35,000 PSI. STRUCTURAL TUBING COLUMNŠ ASTM A500, GRADE B, Fy = 46,000 PSI. ALL STEEL ĚXCEPT STEEL EMBEDDED IN CONCRETE SHALL BE GIVEN ONE SHOP COAT OF APPROVED PAINT, WELDS TO BE 3/16" MINIMUM CONTINUOUS FILLET BY WABO CERTIFIED WELDERS, FIELD CONNECTIONS NOT SHOWN SHALL BE BOLTED FRAMED BEAM CONNECTIONS PER AISC. ALL BOLTS TO BE A325, DURING ERECTION, STRUCTURAL STEEL SHALL BE SECURED FROM COLLAPSING WITH TEMPORARY BRACING. WHERE EXPANSION ANCHORS ARE SPECIFIED, THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER A SAMPLE OF THE ANCHOR TO BE USED WITH LABORATORY DATA OF PULL-OUT AND SHEAR STRENGTH.

FIREPLACES

MASONRY FIREPLACES AND CHIMNEYS ARE TO BE CONSTRUCTED TO CONFORM TO ALL APPLICABLE PORTIONS OF THE IBC SECTION 2111 AND IRC SECTION RID03. FLUE LINER MINIMUM 5/8" FIRE CLAY (OR EQUIV.) PER IBC SECTION RIQUA,12 AND TABLE RIQUA,14. FLUE AREA PER IBC TABLE RIQUI, CHIMNEYS SHALL SUPPORT ONLY THEIR OWN WEIGHT UNLESS SPECIFICALLY DESIGNED TO SUPPORT ADDITIONAL LOADS

ALL FIREPLACES ARE TO BE PROVIDED WITH TIGHTLY-FITTING FLUE DAMPERS, OPERATED WITH A READILY-ACCESSIBLE MANUAL OR APPROVED AUTOMATIC CONTROL AND AN OUTSIDE SOURCE OF COMBUSTION AIR. MINIMUM DUCT SIZE OF 6 SQUARE INCHES IN AREA, PROVIDED WITH READILY-OPERABLE DAMPER LOCATED IN FRONT PART OF FIREBOX.

PREFABRICATED FIREPLACES, CHIMNEYS AND RELATED COMPONENTS TO BEAR U.L., HAVE WASHINGTON STATE CERTIFICATION SEAL OF APPROVAL AND BE INSTALLED PER ANY CONDITIONS OF APPROVAL. DIRECT VENT UNITS ARE REQUIRED WHEN GAS OPERATED

DOORS AND WINDOWS

ALL GLAZING TO BE DOUBLE GLAZING WITH MAXIMUM "U" VALUE OF 0.28. ALL SKYLIGHTS TO BE DOUBLE GLAZING, MAXIMUM "U" VALUE OF 0.50. FACTORY BUILT WINDOWS TO BE CONSTRUCTED TO PERMIT MAXIMUM INFILTRATION OF 0.5 CFM PER LINEAL FOOT OF OPERABLE SASH PERIMETER AS TESTED BY STANDARD ASTM E 283.73. SITE BUILT AND MILLWORK SHOP BUILT WOODEN SASH ARE EXEMPT FROM INFILTRATION CRITERIA ABOVE, BUT MUST BE MADE TIGHTLY FITTING AND WEATHER-STRIPPED OR CAULKED. SLIDING GLASS DOORS TO PERMIT MAXIMUM INFILTRATION OF 0.5 CFM PER INFILTRATION OF 1.0 CFM PER SQUARE FOOT OF DOOR AREA.

CAULK OR WEATHER-STRIP WINDOWS, DOORS AND PENETRATIONS

GLAZING IN DOORS, AND GLAZING IN HAZARDOUS LOCATIONS DESCRIBED IN IRC SECTION R308, TO BE SAFETY GLAZING

(I.R.C. R3Ø8)

GLAZING INSTALLED IN HAZARDOUS LOCATIONS AS DEFINED IN SECTION R308.4 SHALL BE PROVIDED WITH A MANUFACTURER'S DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, THE TYPE OF GLASS AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES. THE DESIGNATION SHALL BE VISIBLE IN THE FINAL INSTALLATION AND CANNOT BE REMOVED FROM THE WINDOW WITHOUT BEING DESTROYED.

MAYIMIM

INSULATION

UNLESS OTHERWISE NOTED, INSULATION TO BE AS FOLLOWS:

LOCATION INSULATION ADDED ASSEMBLY "U" VALUE CEILING & ROOFS R-49, R-38 (ADV.) 03 EXTERIOR WALLS WALLS BETWEEN HOUSE & GARAGE R-21 05 FLOORS OVER UNHEATED SPACE R-38 03 SLAB PERIMETER: (2) R-10 ELECTRIC WATER HEATERS (3) PER ASHRAE 90A-80 GAS WATER HEATERS (4) PER ASHRAE 90A-80 DUCTS IN UNHEATED SPACES		MINIMUM	MAXIMUM
EXTERIOR WALLS WALLS BETWEEN HOUSE & GARAGE R-21 Ø5 FLOORS OVER UNHEATED SPACE R-38 Ø3 SLAB PERIMETER: (2) R-10 ELECTRIC WATER HEATERS (3) GAS WATER HEATERS (4) PER ASHRAE 90A-80	LOCATION	INSULATION ADDED	ASSEMBLY "U" VALUE
EXTERIOR WALLS WALLS BETWEEN HOUSE & GARAGE R-21 Ø5 FLOORS OVER UNHEATED SPACE R-38 Ø3 SLAB PERIMETER: (2) R-10 ELECTRIC WATER HEATERS (3) PER ASHRAE 90A-80 GAS WATER HEATERS (4) PER ASHRAE 90A-80			
WALLS BETWEEN HOUSE & GARAGE FLOORS OVER UNHEATED SPACE R-38 SLAB PERIMETER: (2) R-10 ELECTRIC WATER HEATERS (3) GAS WATER HEATERS (4) PER ASHRAE 90A-80	CEILING # ROOFS	R-49, R-38 (ADV.)	.Ø3
FLOORS OVER UNHEATED SPACE R-38 SLAB PERIMETER: (2) R-10 ELECTRIC WATER HEATERS (3) GAS WATER HEATERS (4) PER ASHRAE 90A-80 PER ASHRAE 90A-80	EXTERIOR WALLS	R -21	.Ø5
SLAB PERIMETER: (2) ELECTRIC WATER HEATERS (3) GAS WATER HEATERS (4) PER ASHRAE 90A-80 PER ASHRAE 90A-80	WALLS BETWEEN HOUSE & GARAGE	R-21	.05
ELECTRIC WATER HEATERS (3) GAS WATER HEATERS (4) PER ASHRAE 90A-80 PER ASHRAE 90A-80	FLOORS OVER UNHEATED SPACE	R-38	. Ø 3
GAS WATER HEATERS (4) PER ASHRAE 90A-80	SLAB PERIMETER: (2)	R-10	
	ELECTRIC WATER HEATERS (3)	PER ASHRAE 90A-80	
DUCTS IN UNHEATED SPACES PER WSEC TABLE 4-16	GAS WATER HEATERS (4)	PER ASHRAE 90A-80	>
	DUCTS IN UNHEATED SPACES	PER WSEC TABLE 4-16	6

FOOTNOTES:

(1) R-38 IN SINGLE RAFTER, JOIST VAULTED CEILINGS

(2) APPLIED TO PERIMETER OF SLAB FROM TOP OF SLAB DOWNWARD HORIZONTALLY MINIMUM 24" SEE BASIC FOUNTATION DETAILS.

(3) MUST BE INTEGRATED WITH UNIT. UNIT MUST DISLAY VERIFICATION. (4) UNLESS UNIT CONFORMS TO ASHRAE 90A-80 AND IS LABELED TO SIGNIFY CONFORMANCE

SMOKE ALARMS (I.R.C. R314)

ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND INSTALLED IN ACCORDANCE WITH THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 12. SMOKE ALARMS SHALL BE 110V INTERCONNECTED WITH BATTERY BACK-UP AND SHALL BE LOCATED IN: a. EACH SLEEPING ROOM

b. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS c. ON EACH ADDITIONAL STORY OF THE DWELLING

EFFECTIVE JAN. 1, 2011: SINGLE STATION CARBON MONOXIDE ALARMS COMPLYING WITH UL 2034 SHALL BE INSTALLED IN ACCORDANCE WITH THIS CODE AND MANUFACTURERS INSTRUCTIONS AND BE INSTALLED OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF BEDROOMS AND EACH FLOOR LEVEL

HEAT ALARMS (I.R.C. R314)

R314.2.3 New attached garages. A heat detector or heat alarm rated for the ambient outdoor temperatures and humidity shall be installed in new garages that are attached to or located under new and existing dwellings. Heat detectors and heat alarms shall be installed in a central location and in accordance with the manufacturer's instructions.

R314.4.1 Heat detection interconnection. Heat detectors and heat alarms shall be connected to an alarm or a smoke alarm that is installed in the dwelling. Alarms and smoke alarms that are installed for this purpose shall be located in a hallway, room, or other location that will provide occupant notification.

INFILTRATION CONTROL (W.S.E.C. SECTION 402.4)

I) EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES, OPENINGS BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOF AND BETWEEN WALL PANELS: OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH WALLS, FLOOR AND ROOFS: AND ALL OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED AND GASKETED OR WEATHERSHTRIPPED TO LIMIT AIR LEAKAGE. OTHER EXTERIOR JOINTS AND SEAMS SHALL BE SIMILARLY TREATED, OR TAPED, OR COVERED WITH MOISTURE VAPOR PERMEABLE HOUSEWRAP

2) ALL EXTERIOR DOORS OR DOORS SERVING AS ACCESS TO AN ENCLOSED UNHEATED AREA SHALL BE WEATHERSTRIPPED TO LIMIT LEAKAGE AROUND THEIR PERIMETER WHEN IN A CLOSED POSITION.

BUILDING ENVELOPE SHALL BE a. TYPE IC RATED AND CERTIFIED UNDER ASTM E283 TO HAVE NO MORE THAN 2.0 CFM AIR

b. THE LIGHTING FIXTURE SHALL BE TESTED AT 15 PASCALS OR 1.51 LBS/SF PRESSURE DIFFERENCE AND LABELED SHOWING COMPLIANCE c. SHALL BE INSTALLED WITH A GASKET OR CAULK AT THE CEILING TO PREVENT AIR LEAKAGE

4) BUILDING AIR LEAKAGE TESTING REQUIRED PER W.S.E.C 402.4.1.2 AND SHALL OCCUR ANYTIME AFTER ROUGH IN AND AFTER INSTALLATION OF PENETRATIONS OF THE BUILDING ENVELOPE. ACCEPTABLE AIR LEAKAGE TO BE LESS THAN 0.00030 SLA WITH A BLOWER DOOR AT A PRESS OF 50 PASCALS

A - DUCT SYSTEMS SHALL BE OF METAL AS SET FORTH IN TABLE MIGØ1.1.(2) OR FACTORY-MADE AIR DUCTS COMPLYING WITH MIGO12, AND 1601.2.1 I.R.C.

B - JOINTS AND SEAMS SHALL BE SUBSTANTIALLY AIRTIGHT (MIGØ1.4.1 I.R.C.) C - INSTALLATION OF DUCTS SHALL COMPLY WITH SECTION MIGOI.4 I.R.C.

D - DUCT INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH SECTION MIGO1.3 I.R.C. E - BUILDING CAVITIES MAY NOT BE USED AS DUCTS (WAC MIGO!!!!)

F - INSTALLATION OF DUCTS IN EXTERIOR WALLS, FLOORS OR CEILINGS SHALL NOT DISPLACE REQUIRED ENVELOPE INSULATION

SEAMS AND JOINTS: (MI6Ø1.4.1 I.R.C.)

DUCTS SHALL BE LEAK TESTED IN ACCORDANCE WITH RS-33 USING THE MAXIMUM DUCT LEAKAGE RATES. ALL DUCTS, AIR HANDLERS, FILTER BOXES, AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION MIGOI.3 OF THE IRC OR 603.9 IMC. DUCT TIGHTNESS TESTING SHALL BE CONDUCTED TO VERIFY THAT DUCT ARE SEALED AND A SIGNED AFFIDAVIT DOCUMENTING THE TEST RESULTS SHALL BE PROVIDED TO THE JURISDICTION. DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER POST-CONSTRUCTION TESTING OR ROUGH-IN TESTING

2018 WASHINGTON STATE ENERGY CODE

TABLE R402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENTA

CLIMATE ZONE 5 AND MARINE 4			
Fenestration U-Factorb	0.30		
Skylightb U-Factor	0.50		
Ceiling R-Valuee	49		
Wood Frame Wallg,h R-Value	21 int		
Floor R-Value	30		
Below-Gradec,h Wall R-value	10/15/21 int + 5TB		
Slabd,f R-Value & Depth	10, 2 ft		

For SI: 1 foot = 304.8 mm, ci = continuous insulation, int = intermediate framing.

a. R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.

b. The fenestration U-factor column excludes skylights.

c. "10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the

wall. "5TB" means R-5 thermal break between floor slab and basement wall. d. R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.

e. For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall. f. R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required

perimeter slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics. g. For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for climate zone 5 of ICC 400.

h. Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 78 percent of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.

R402.1.2 R-value computation. Insulation R-value shall be determined as specified in Section R303.1.4. Insulation material used in layers, such as framing cavity insulation or continuous insulation, shall be summed to compute the corresponding component R-value. The manufacturer's settled Rvalue shall be used for blown insulation. Computed R-values shall not include an R-value for other building materials or air films. Where insulated siding is used for the purpose of complying with the continuous insulation requirements of Table R402.1.1, the manufacturer's labeled R-value for insulated siding shall be reduced by R-0.6.

R402.1.3 U-factor alternative. An assembly with a U-factor equal to or less than that specified in Table R402.1.3 shall be permitted as an alternative to the R-value in Table R402.1.1. U-factors shall be determined as specified in Section R402.1.5.

CERTIFICATE (WSEC R4Ø13)

A permanent certificate shall be completed by the builder or registered design professional and posted on a wall in the space where the furnace is located, a utility room, or an approved location inside the building. When located on an electrical panel, the certificate shall not cover or obstruct the visibility of the circuit directory label, service disconnect label, or other required labels. The certificate shall list the predominant R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, below-grade wall, and/or floor) and ducts outside conditioned spaces + U-factors for fenestration and the solar heat gain coefficient (SHGC) of fenestration, and the results from any required duct system and building envelope air leakage testing done on the building. Where there is more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the types and efficiencies of heating, cooling and service water heating equipment. Where a gas-fired unvented room heater, electric furnace, or baseboard electric heater is installed in the residence, the certificate shall list "gas-fired unvented room heater," "electric furnace" or "baseboard electric heater," as appropriate. An efficiency shall not be listed for qas-fired unvented room heaters, electric furnaces or electric baseboard heaters

A NFPA 72— Chapter 29 Monitored Fire Alarm System in compliance with NFPA 72 and CoMI

A NFPA 13D Fire Sprinkler System in compliance with NFPA 13D and CoMI standards shall be

standards shall be installed throughout the residence.

A separate FIRE permit is required.

installed throughout the residence.

A separate FIRE permit is required.

LIGHTING (WSEC R404)

LIGHTING EQUIPMENT (MANDATORY). A MINIMUM IF 90% OF LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS IN ACCORDANCE WITH 2018 WSEC SECTION R404.1

INTERMITTENT WHOLE HOUSE VENTILATING

SYSTEM USING EXHAUST FANS

2018 INTERNATIONAL RESIDENTIAL CODE (IRC MI507.3) CHAPTER 51-52 W.A.C. - EFFECTIVE FEB. 1, 2021 ACCORDING TO WA STATE AMENDENTS VIA WAC 51-51

INTERMITTENT WHOLE HOUSE VENTILATION SYSTEMS SHALL OPERATE INTERMITTENTLY AND CONTINUOUSLY. THE SYSTEM SHALL HAVE A AUTOMATIC 24-HOUR CLOCK TIMER SET TO OPERATE PER FRACTIONAL OPERATION TIME IN MISØ1.3.2. CONTROLS SHALL BE CAPABLE OF OPERATING THE VENTILATION SYSTEM WITHOUT ENERGIZING OTHER ENERGY CONSUMING APPLIANCES. A LABEL SHALL BE AFFIXED TO THE CONTROLS THAT READS "WHOLE HOUSE VENTILATION (SEE OPERATING INSTRUCTIONS)". OUTDOOR AIR WILL BE DRAWN FROM AIR INLETS INSTALLED IN

WHOLE HOUSE VENTILATION FANS:

a. FAN AIRFLOW RATING AND DUCT SYSTEM SHALL BE DESIGNED AND INSTALLED TO DELIVER AT LEAST THE OUTDOOR AIRFLOW PER TABLE, ADJUSTED PER THE EXCEPTION

b. EXHAUST FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH THE AIRFLOW AND SOUND RATING PROCEDURES OF THE HOME VENTILATING INSTITUTE. c. DOORS WILL BE UNDERCUT BY 1/2" PER THE WASHINGTON STATE ADMENDMENTS RISØ1.3.4.4

FAN NOISE: (IRC MI507.3.4.2)

a. WHOLE HOUSE FANS LOCATED 4 FEET OR LESS FROM THE INTERIOR GRILLE SHALL HAVE A SONE RATING OF 1.0 OR LESS MEASURED AT Ø.10 INCHES WATER GAUGE.

b. MANUFACTURER'S FAN NOISE RATINGS SHALL BE DETERMINED ACCORDING TO HVI 915 C. REMOTELY MOUNTED FANS SHALL BE ACOUSTICALLY ISOLATED FROM THE STRUCTURAL ELEMENTS OF THE BUILDING AND FROM ATTACHED DUCT WORK USING INSULATED FLEXIBLE DUCT OR OTHER APPROVED MATERIAL.

EXHAUST DUCTS (IRC 1506.1) a. SHALL TERMINATE OUTSIDE THE BUILDING.

b. SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS c. ALL EXHAUST DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED TO A MINIMUM OF R-4.5 d. EXHAUST OUTLETS SHALL COMPLY WITH SECTION 501.2

OUTDOOR AIR (IRC MI507.3.4.4)

EXHAUST FAN ONLY VENTILATION SYSTEMS SHALL PROVIDE OUTDOOR AIR THROUGH AIR INLETS INSTALLED IN WINDOWS. INLETS SHALL BE & CONTROLLABLE WITH SECURE OPENINGS, SHALL BE DESIGNED TO NOT COMPROMISE THE THERMAL PROPERTIES OF THE BUILDING ENVELOPE, ACCESSIBLE TO OCCUPANTS AND SCREENED. INLETS SHALL PROVIDE NOT LESS THAN 4 SQUARE INCHES OF NET FREE AREA OF OPENING FOR EACH IØCFM OF OUTDOOR AIR REQUIRED IN TABLE 1507.3.3. EACH OCCUPIABLE SPACE SHALL HAVE A MINIMUM OF ONE AIR INLET THAT HAS A MINIMUM OF 4 SQUARE INCHES OF NET FREE AREA.

SOURCE-SPECIFIC VENTILATION (IRC MIDØT):

SOURCE SPECIFIC EXHAUST VENTILATION IS REQUIRED IN EACH KITCHEN, BATHROOM, WATER CLOSET, LAUNDRY ROOM, INDOOR SWIMMING POOL, SPA, AND OTHER ROOMS WHERE EXCESS WATER VAPOR OR COOKING ODOR IS PRODUCED. THE MINIMUM SOURCE SPECIFIC VENTILATION EFFECTIVE EXHAUST CAPACITY SHALL NOT BE LESS THAN LEVELS SPECIFIED IN TABLE 1507.4

TABLE 1503.3.(1)

VENTILATION RATES FOR ALL GROUP R PRIVATE DWELLINGS (CONTINUOUSLY OPERATING SYSTEM):

WHOLE HOUSE VENTILATION PER SECTION MI505.4

INTERMITTENTLY OPERATION VENTILATION SYSTEM PER IRC SECTION MISO.I.2 REF TO TABLE MI505.4 (1) FOR MINIMUM OUTDOOR AIRFLOW RATES - CFM

RUN TIME: ON ONCE EVERY THREE HOURS, FOR ONE HOUR PER TABLE MI5/07.3.2 OPERATION: TIME CLOCK TO OPEN DAMPER LOCATED IN FRESH AIR INTAKE DUCT BETWEEN THE OUTSIDE CAP AND THE RETURN AIR DUCT AT FURNACE, AND TIME CLOCK ALSO STARTS THE FURNACE FAN TO DISTRIBUTE FRESH AIR THROUGH THE HEAT DUCT SYSTEM THAT WAS BROUGHT IN THROUGHT THE AIR INTAKE DUCT. THE AIR VOLUME BROUGHT IN WILL BE FLOW

FLOOR	BEDROOMS				
AREA	Ø-1	2-3	4-5	6-7	1 OR MORE
LESS THAN 1,500	30 CFM	45 CFM	60 CFM	75 CFM	90 CFM
1,501-3,000	45 CFM	60 CFM	75 CFM	90 CFM	105 CFM
3,001-4,500	60 CFM	75 CFM	90 CFM	105 CFM	12Ø CFM
4,501-6,000	75 CFM	90 CFM	105 CFM	120 CFM	135 CFM
6,001-7,500	90 CFM	105 CFM	120 CFM	135 CFM	150 CFM
7,500 -	105 CFM	120 CFM	135 CFM	150 CFM	165 CFM

FRACTIONAL OPERATION TIME (f) OF 24-HR TIMER TO BE SET BY MECHANICAL CONTRACTOR. BASED ON

4-HOUR CYCLE, 150CFM (116 cfm @ 0.25in WC) FAN ____, ASHREA 62.2-2010 AND TABLE MI507.3.3(2) THE ON TIME

SHALL BE± - CONTINUOUS FAN RATE 60± f= .52 AND WILL RUN 125 MINUTES PER 4-HR CYCLE - CONTINUOUS FAN RATE 15: f=65 AND WILL RUN 156 MINUTES PER 4-HR CYCLE - CONTINUOUS FAN RATE 90 $^{\pm}$ $_{f=..18}$ AND WILL RUN 181 MINUTES PER 4-HR CYCLE

EXHAUST FAN REQUIREMENTS (SECTION 303.3.2 V.I.A.Q.)

- CONTINUOUS FAN RATE 105± <u>f= .91</u> AND WILL RUN 218 MINUTES PER 4-HR CYCLE

a. BATHROOMS, LAUNDRIES, WATER CLOSETS OR SIMILAR ROOMS SHALL HAVE A MINIMUM FAN FLOW RATING NOT LESS THAN 50 cfm @ 0.25 WATER GAUGE. 6. KITCHENS SHALL HAVE A MINIMUM FAN FLOW RATING NOT LESS THAN 100 cfm @ 0.25 WATER GAUGE. HOWEVER, WHERE A RANGE HOOD OR DOWN DRAFT EXHAUST FAN 16 USED THE MINIMUM

FAN FLOW RATING SHALL NOT BE LESS THAN 100 cfm @ 0.10 WATER GAUGE.

SOURCE SPECIFIC VENTILATION DUCTS

a. MUST TERMINATE OUTSIDE THE BUILDING b. EXHAUST DUCTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS

c. VENTILATION DUCTS IN UNCONDITIONED SPACE WILL REQUIRE R-8 INSULATION PER WSEC R403.3.1 d. TERMINAL ELEMENTS MUST BE SCREENED AND SIZED TO BE GREATER THAN OR EQUAL TO THE NET FREE AREA OF THE DUCT

c. EXHAUST FANS CANNOT TERMINATE WITHING 3 FT. FROM ANY OPERABLE OPENING PER IRC RI506.3

JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:

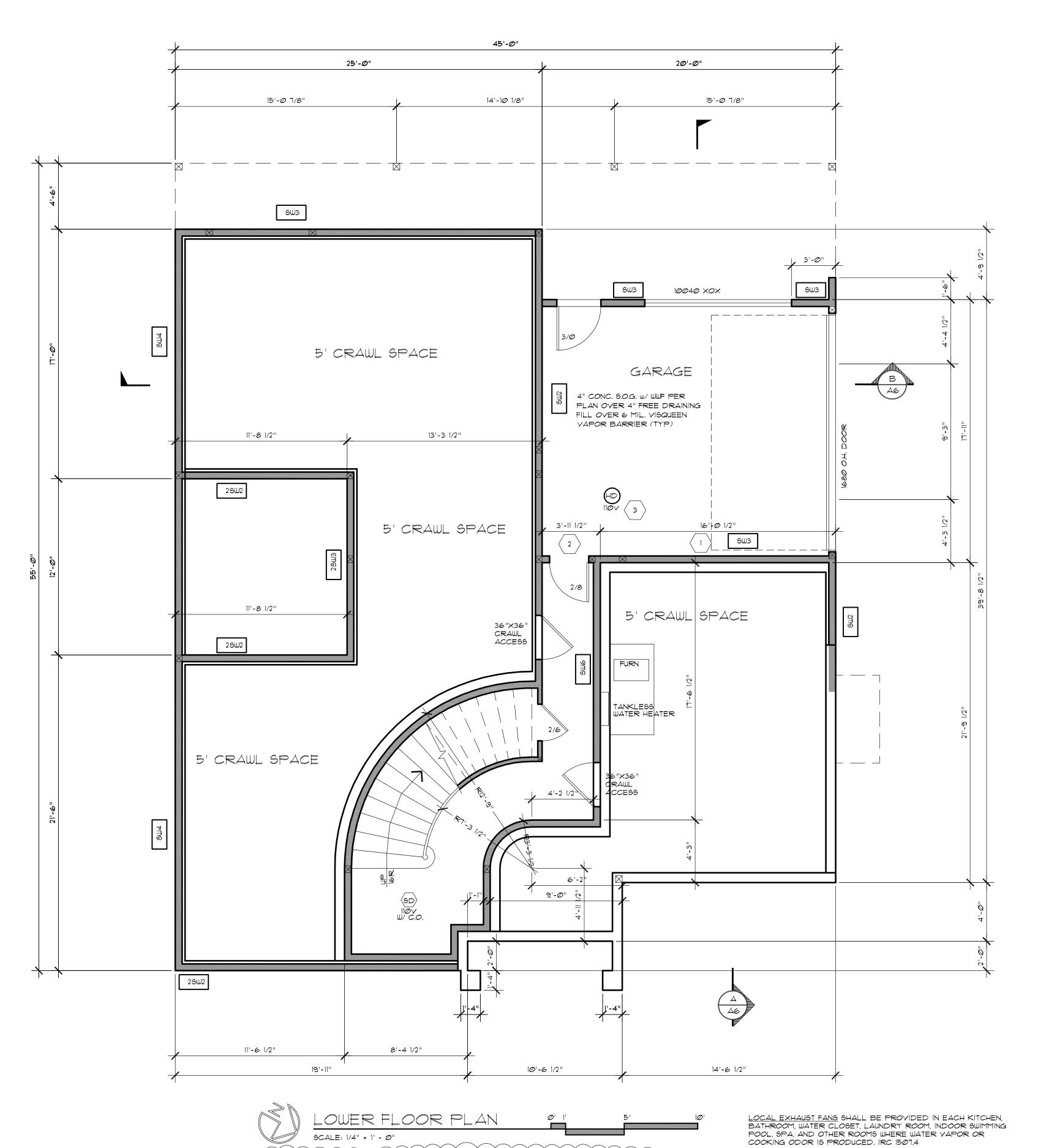
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A NFPA 72— Chapter 29 Monitored Fire Alarm System in compliance with NFPA 72 and CoMI

A NFPA 13D Fire Sprinkler System in compliance with NFPA 13D and CoMI standards shall be

standards shall be installed throughout the residence.

A separate FIRE permit is required.

installed throughout the residence.

A separate FIRE permit is required.

2018 IRC R302.6: Dwelling/garage separation required: The garage shall be separated as required by Table R302.6. Openings in garage walls shall comply with Section R302.5. This provision does not apply to garage walls that are perpendicular to the adjacent dwelling unit wall. Ceilings and beams will be covered by 5/8" Type X gypsum run perpendicular to the floor joists (see 2018 IRC Table R702.3.5 footnote e)

Openings between the garage and residence shall be equipped with solid wood doors not less than 1-3/8-inches (35mm) in thickness, solid or honeycomb core steel doors not less than 1-3/8 inches (35mm) thick, or 20-minute fire-rated doors, equipped with a self-closing device.

R314.4.1 Heat detection interconnection. Heat detectors and heat alarms shall be connected to an alarm or a smoke alarm that is installed in the dwelling. Alarms and smoke alarms that are installed for this purpose shall be located in a hallway, room, or other location that will provide occupant notification.

inches measured between the vertical planes of the foremost projection of adjacent treads at the allowed within the same flight of stairs as rectangular treads and do not have to be within 3/8 inch of the rectangular tread depth.(R311.7.5.2.1)

NOTE: CONTRACTOR SHALL VERIFY TO INSPECTOR

RESISTING 200 LB LOAD ON TOP RAIL IN ANY DIRECTION AS REQUIRED BY IRC TABLE 301.5

DWELLING UNIT FOR EXTRIOR STAIRS

IRC SECTIONS R303.7 & R311.7.9

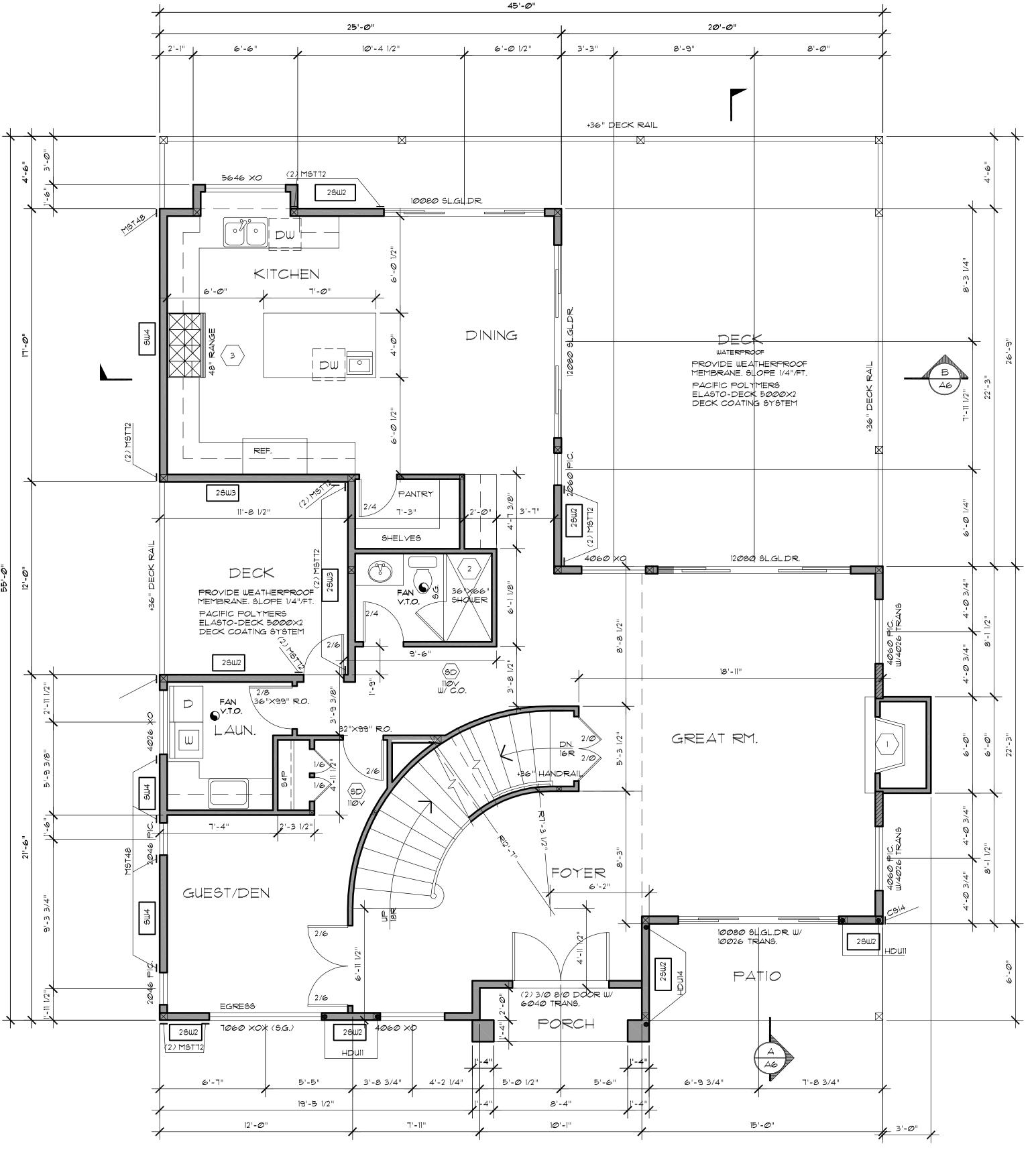
ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF

STAIR LIGHTING ALL STAIRWAYS SHALL BE PROVIDED WITH LIGHT SOURCES. LIGHT ACTIVATION CONTROLS SHALL BE ACCESSIBLE AT THE TOP AND BOTTOM OF INTERIOR STAIRWAYS AND WITHIN

Winder treads shall have a tread depth of not less than 10 intersections with the walkline. Winder treads shall have a tread depth of not less than 6 inches at any point within the clear width of the stair. Within any flight of stairs, the largest winder tread depth at the walkline shall not exceed the smallest winder tread by more than 3/8 inch. Consistently shaped winders at the walkline shall be

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REVISED: 5/18/24



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

A NFPA 72— Chapter 29 Monitored Fire Alarm System in compliance with NFPA 72 and CoMI standards shall be installed throughout the residence.

A separate FIRE permit is required.

A NFPA 13D Fire Sprinkler System in compliance with NFPA 13D and CoMI standards shall be installed throughout the residence.

A separate FIRE permit is required.

NOTE: CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200 LB LOAD ON TOP RAIL IN ANY DIRECTION AS REQUIRED BY IRC TABLE 301.5

STAIR LIGHTING ALL STAIRWAYS SHALL BE PROVIDED WITH LIGHT SOURCES. LIGHT ACTIVATION CONTROLS SHALL BE ACCESSIBLE AT THE TOP AND BOTTOM OF INTERIOR STAIRWAYS AND WITHIN DWELLING UNIT FOR EXTRIOR STAIRS IRC SECTIONS R303.7 & R311.7.9

WHOLE HOUSE VENTILATION PER SECTION MI505.4

INTERMITTENTLY OPERATION VENTILATION SYSTEM PER IRC SECTION MISO.1.2 REF TO TABLE MI505.4 (1) FOR MINIMUM OUTDOOR AIRFLOW RATES - CFM RUN TIME: ON ONCE EVERY THREE HOURS, FOR ONE HOUR PER TABLE MI501.3.2 OPERATION: TIME CLOCK TO OPEN DAMPER LOCATED IN FRESH AIR INTAKE DUCT BETWEEN THE OUTSIDE CAP AND THE RETURN AIR DUCT AT FURNACE, AND TIME CLOCK ALGO STARTS THE FURNACE FAN TO DISTRIBUTE FRESH AIR THROUGH THE HEAT DUCT SYSTEM THAT WAS BROUGHT IN THROUGHT THE AIR INTAKE DUCT. THE AIR VOLUME BROUGHT IN WILL BE FLOW TESTED AND ADJUSTED TO MATCH THE AMOUNT REQUIRED BY CALCULATIONS. (PRIOR TO THE FINAL INSPECTION)

FLOOR	BEDROOMS				
AREA	Ø-I	2	3	4	5 OR MORE
LESS THAN 500	30 CFM	30 CFM	35 CFM	45 CFM	50 CFM
501-1,000	30 CFM	35 CFM	40 CFM	50 CFM	55 CFM
1,001-1,500	30 CFM	40 CFM	45 CFM	55 CFM	60 CFM
1,501-2,000	35 CFM	45 CFM	50 CFM	60 CFM	65 CFM
2,001-2,500	40 CFM	50 CFM	55 CFM	65 CFM	70 CFM
2,501-3,000	45 CFM	55 CFM	60 CFM	70 CFM	75 CFM
3,001-3,500	50 CFM	60 CFM	65 CFM	75 CFM	80 CFM
3,501-4,000	55 CFM	65 CFM	70 СFM	80 CFM	85 CFM
4,001-4,500	60 CFM	70 CFM	75 CFM	85 CFM	90 CFM
4,501-5,000	65 CFM	75 CFM	80 CFM	90 CFM	95 CFM

TABLE 406.3

2018 ENERGY CREDITS (DEBITS)

SEE RESIDENTIAL ENERGY EFFICIENCY SHEET ATTACHED

HEAT OPTION 2 - 1.0 PTS OPTION 2.2 - 1.5 PTS OPTION 3.5 - 1.5 PTS OPTION 4.1 - .5 PTS OPTION 5.3 - 1.0 PTS

OPTION 7.0 - .5 PTS

TOTAL POINTS - 6.0 PTS

PRESCRIPTIVE REQUIREMENTS 2018 W.S.E.C. (UNLIMITED)

CLIMATE ZONES 5 AND MARINE 4 GLAZING U-FACTOR: VERTICAL U=.30, OVERHEAD U=.50

DOOR U-FACTOR: U=.20 INSULATION: CEILING: R-49, R-38 (ADV), VAULTED CEILING: R-38 ABOVE GRADE WALLS: R-21, BELOW GRADE WALLS: R-21 FLOOR OVER VENTED CRAWL SPACE: R-30

SLAB ON GRADE: R-10 VENTILATION DUCTS IN UNCONDITIONED SPACE TO BE R-8

MECHANICAL VENTILATION REQUIRED VENTILATION PER TABLE MIDO 1.3.3 (1) 90 CFM INTERMITTENT RUN TIME FACTOR 2 = 180 CFM PROVIDE WHOLE HOUSE VENTILATION INTEGRATED WITH A FORCED AIR SYSTEM MI507.3.5

A MINIMUM OF 75% OF ALL LIGHT FIXTURES WILL BE HIGH EFFICACY. (WSEC R404.1)

DIRECT VENT FIREPLACE | > INSTALL PER MANUFACTURERS SPECIFICATIONS

2 CONC. FIBERBUARD 10 10 SURROUND TO 6' ABOVE DRAIN CONC. FIBERBOARD @ TUB & SHOWER

NOTE: PER MI503.6, EXHAUST HOOD SYSTEMS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CFM SHALL BE PROVIDED WITH MAKEUP AIR AT A RATE EQUAL TO THE EXHAUST RATE. SUCH MAKEUP AIR SYSTEMS SHALL BE PEQUIPPED WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMULTANEOUSLY WITH THE EXHAUST

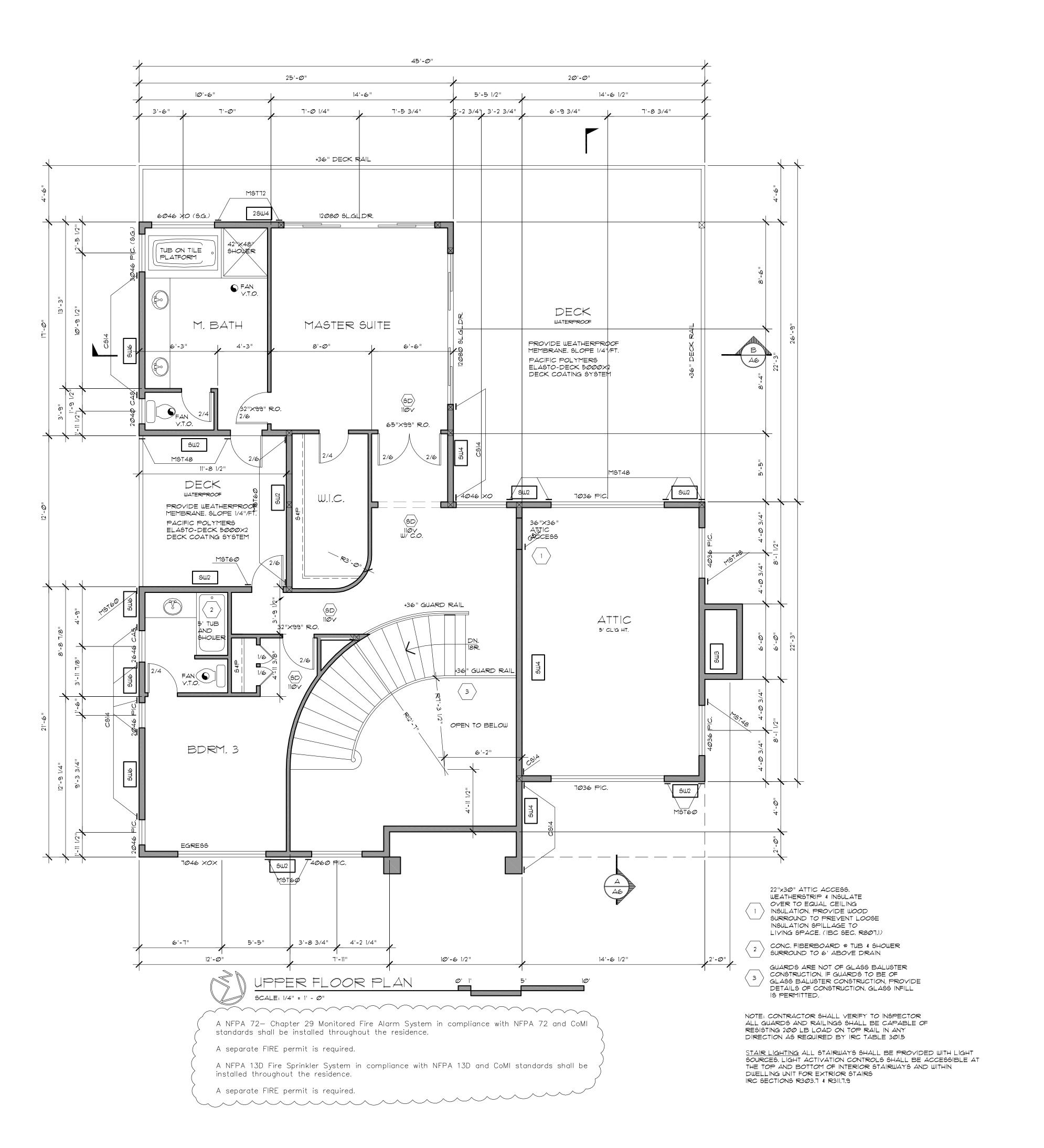
> NOTE: CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200 LB LOAD ON TOP RAIL IN ANY DIRECTION AS REQUIRED BY IRC TABLE 3015

SQUARE FOOTAGE	E SUMM	ARY	
LOWER FLOOR MAIN FLOOR UPPER FLOOR	259 1498 1 <i>0</i> 25	SQ. FT. SQ. FT. SQ. FT.	
TOTAL	2782	SQ. FT.	
GARAGE	357	SQ. FT.	
MAIN FLOOR DECKS	787	5Q. FT.	
UPPER FLOOR DECKS	647	5Q. FT.	

JOB NO: 23006

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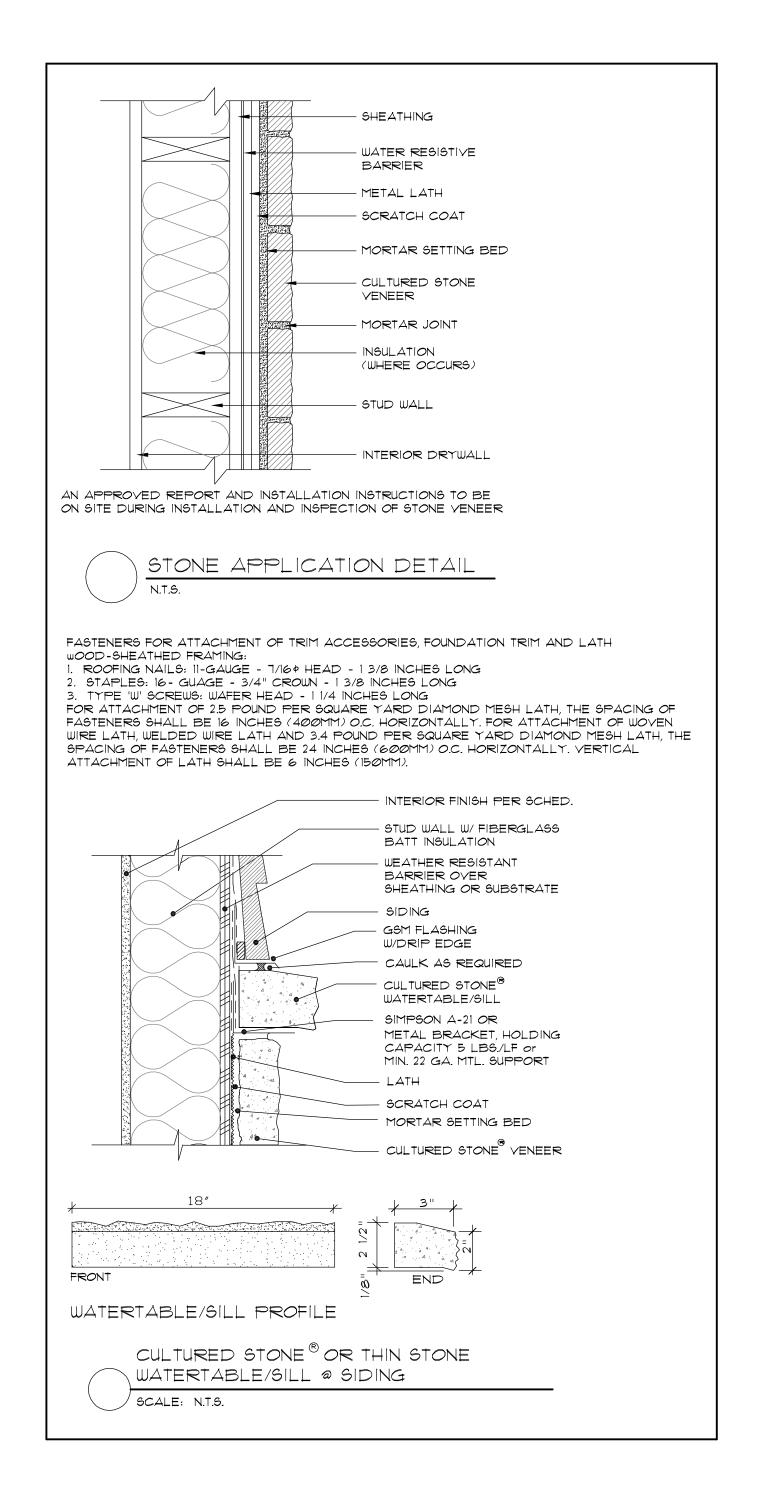


15 SE 27TH STREET FRCER ISLAND, WA 98040

JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED: 5/18/24

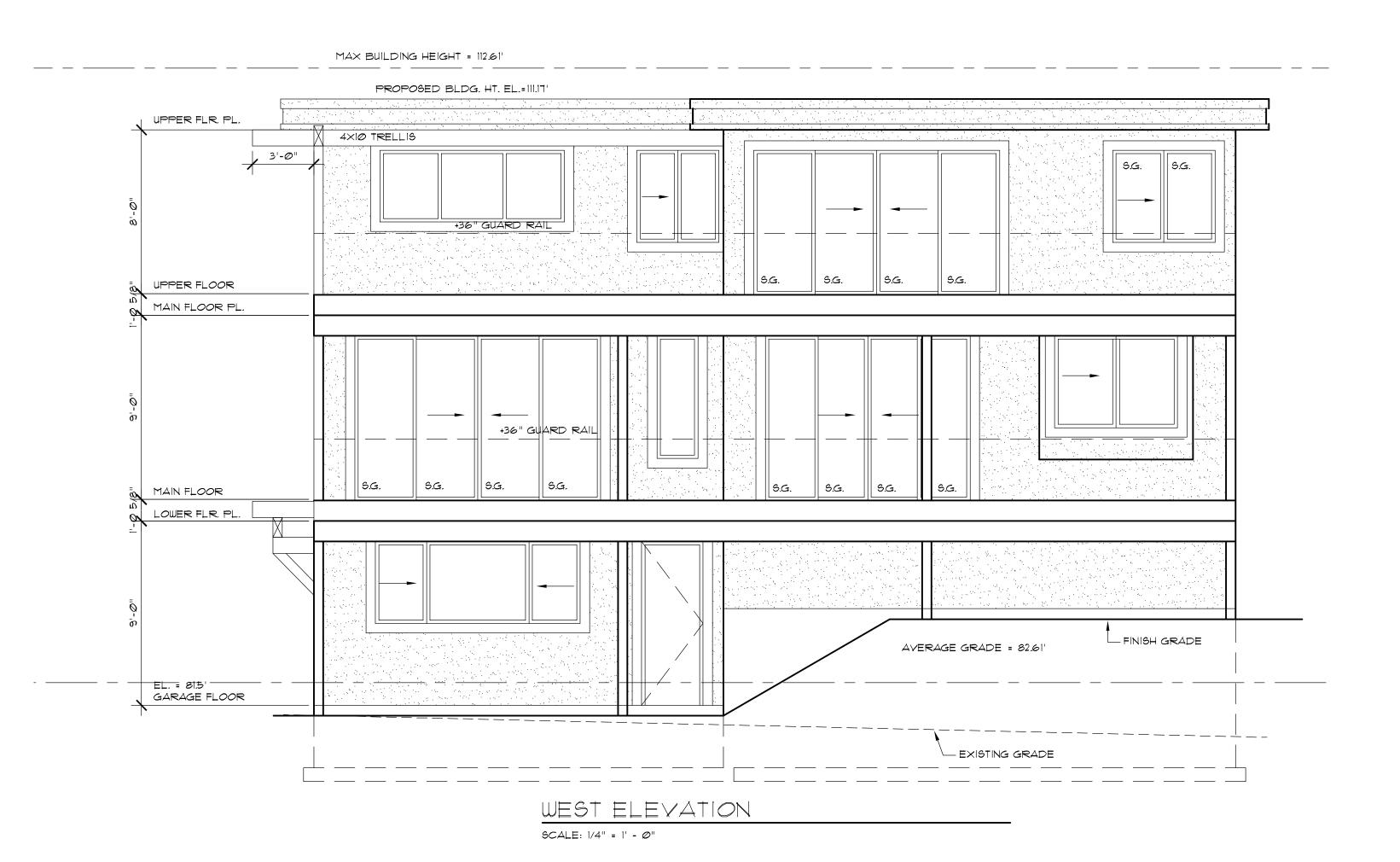
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A3



MAX BUILDING HEIGHT = 112.61'





6175 SE 27TH STREET
MERCER 15LAND, WA 98040

JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:

SHEET NO.

<u>A</u>4

MAX BUILDING HEIGHT = 112.61'	
PROPOSED BLDG. HT. EL.= III.IT! DELTAL DEL DEL DEL DEL DEL DEL DEL DEL DEL DE	UPPER FLR. PL. 1
	M M M
4XIØ TRELLIS +36" GUARD RAIL	
	9.G. UPPER FLOOR TO
	MAIN FLOOR PL.
E	
	9.G. MAIN FLOOR & 1-8
	LOWER FLR. PL. a
6X6 BRACE	6×6 BRACE
EXISTING GRADE 4 4 S3:1	
	63.1
AVERAGE GRADE = 82.61'	EL. = 815'
	GARAGE FLOOR
	FINISH GRADE
NORTH ELEVATION SCALE: 1/4" = 1' - 0"	
SCALL: V4 - 1 - 2	
MAX BUILDING HEIGHT = 112.61'	
PROPOSED BLDG. HT. EL.=III.IT'	
+36" GUÁRD RAIL S.G.	
FINISH GRADE	
AVERAGE GRADE = 82.61'	
	EXISTING GRADE
SOUTH ELEVATION	
SCALE: 1/4" = 1' - 0"	

6115 SE 27TH STREET MERCER ISLAND, WA 98040

JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:

SHEET NO.

45

6175 SE 27TH STREET MERCER ISLAND, WA 98040

JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:

SHEET NO.

 $\triangle 6$

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)

Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation.

1. Small Dwelling Unit: 3 credits Dwelling units less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area. Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.

2. Medium Dwelling Unit: 6 credits

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

3. Large Dwelling Unit: 7 credits Dwelling units exceeding 5,000 sf of conditioned floor area
4. Additions less than 500 square feet: 1.5 credits
All other additions shall meet 1-3 above

Summary of Table R406.2					
Heating Options	Fuel Normalization Descriptions	on Descriptions Credits - select ONE heating option		User Notes	
-	nbustion heating minimum NAECAb	0.0			
2 Hea	at pumpc	1.0	•		
3 Ele	ctric resistance heat only - furnace or zonal	-1.0			
4	DHP with zonal electric resistance per option 3.4	0.5			
5	All other heating systems	-1.0			
Energy Options	Energy Credit Option Descriptions		select ONE ion from each		
1.1	Efficient Building Envelope	0.5	5.) 4		
1.2	Efficient Building Envelope	1.0			
1.3	Efficient Building Envelope	0.5			
1.4	Efficient Building Envelope	1.0			
1.5	Efficient Building Envelope	2.0			
1.6	Efficient Building Envelope	3.0			
1.7	Efficient Building Envelope	0.5			
2.1	Air Leakage Control and Efficient Ventilation	0.5			
2.2	Air Leakage Control and Efficient Ventilation	1.0	•		
2.3	Air Leakage Control and Efficient Ventilation	1.5			
2.4	Air Leakage Control and Efficient Ventilation	2.0			
3.1a	High Efficiency HVAC	1.0			
3.2	High Efficiency HVAC	1.0			
3.3a	High Efficiency HVAC	1.5			
3.4	High Efficiency HVAC	1.5			
3.5	High Efficiency HVAC	1.5	•		
3.6a	High Efficiency HVAC	2.0			
4.1	High Efficiency HVAC Distribution System	0.5	•		
4.2	High Efficiency HVAC Distribution System	1.0			
5.1d	Efficient Water Heating	0.5			
5.2	Efficient Water Heating	0.5			
5.3	Efficient Water Heating	1.0			
5.4	Efficient Water Heating	1.5			
5.5	Efficient Water Heating	2.0			
5.6	Efficient Water Heating	2.5			
6.1e	Renewable Electric Energy (3 credits max)	1.0			
7.1	Appliance Package	0.5			
	Total Credit				

a. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W,

- whichever is bigger, may be installed in the dwelling unit.
- b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)
- c. Equipment listed in Table C403.3.2(1) or C403.3.2(2) d. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined
- with options 5.2 through 5.6. See Table 406.3. e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max. See the complete Table R406.2 for all requirements and option descriptions.

Energy Credits (2018 Code)

TABLE 406.3

ODTION	DECORIDE		EDIT(S)
OPTION	DESCRIPTION	All Other	Group R-
1. EFFICIE	NT BUILDING ENVELOPE OPTIONS		1
Only o	ne option from Items 1.1 through 1.7 may be selected in this category.		
	liance with the conductive UA targets is demonstrated using Section R402.1 Proposed UA/Target UA)] > the required %UA reduction	1.4, Total UA alte	ernative, whe
	AKAGE CONTROL AND EFFICIENT VENTILATION OPTIONS		
Only o	one option from Items 2.1 through 2.4 may be selected in this category.		
2.1	Compliance based on R402.4.1.2:	0.5	1.0
	Reduce the tested air leakage to 3.0 air changes per hour maximum at 50 Pascals		
	For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.3 cfm/ft2 maximum at 50 Pascals		
	All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a high efficiency fan(s) (maximum 0.35 watts/cfm), not interlocked with the furnace fan (if present). Ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected, the maximum tested building air leakage, and shall show the qualifying ventilation system and its control sequence of operation.		
3. HIGH EF	FICIENCY HVAC EQUIPMENT OPTIONS		
3.5a	Air-source, centrally ducted heat pump with minimum HSPF of 11.0.	1.5	N/A
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		

TABLE 406.3 2018 ENERGY CREDITS

ODTION	DESCRIPTION	CRE	EDIT(S)
OPTION	DESCRIPTION		Group R-2
4. HIGH EF	FICIENCY HVAC DISTRIBUTION SYSTEM OPTIONS		
4.1	All supply and return ducts located in an unconditioned attic shall be deeply buried in ceiling insulation in accordance with Section R403.3.7.	0.5	0.5
	For mechanical equipment located outside the conditioned space, a maximum of 10 linear feet of return duct and 5 linear feet of supply duct connections to the equipment may be outside the deeply buried insulation. All metallic ducts located outside the conditioned space must have both they consider the space and they are seen as a point of they conditioned space. If flex ducts are used,		
	flp@cereakage shall be limited to 3 cfm per 100 square feet of conditioned		
	Air handler(s) shall be located within the conditioned space.		
5. EFFICIEN	IT WATER HEATING OPTIONS		,
5.3	Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.91 or	1.0	1.0
	Solar water heating supplementing a minimum standard water heater. Solar water heating will provide a rated minimum savings of 85 therms or 2000 kWh based on the Solar Rating and Certification Corporation (SRCC) Annual Performance of OG-300 Certified Solar Water Heating Systems or		
	Water heater heated by ground source heat pump meeting the requirements of Option 3.3.		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency and, for solar water heating systems, the calculation of the minimum energy savings.		
7. APPLIA	NCE PACKAGE OPTION		
7.1	All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards: Dishwasher – Energy Star rated Refrigerator (if provided) – Energy Star rated Washing machine – Energy Star rated Dryer – Energy Star rated, ventless dryer with a minimum CEF rating of 5.2. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the appliance type and provide documentation of Energy Star compliance. At the time of inspection, all appliances shall be installed and connected to utilities. Dryer ducts and exterior dryer vent caps are not permitted to be installed in the dwelling unit.	0.5	1.5

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)

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

Contact Information

nstructions: This single-family project will use the re ncorporate the minimum values listed. Based on th dditional credits are checked as chosen by the pern	e size of the structure, the appropriate number of
ncorporate the minimum values listed. Based on th	e size of the structure, the appropriate number of

Project Information

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

Authorized Representative		Date
	All Climate Zones (Table R402.1.	1)
	R-Value a	U-Factor a
Fenestration U-Factor b	n/a	0.28
Skylight U-Factor b	n/a	0.50
Glazed Fenestration SHGC b,	e n/a	n/a
Ceiling e	49 j	0.026
Wood Frame Wall g,h	21 int	0.056
Floor	38	0.026
Below Grade Wall c,h	10/15/21 int + TB	0.042
Slab d,f R-Value & Depth	o d,f R-Value & Depth 10, 2 ft n/a	
a than the label or design	U-factors and SHGC are maximums. When in thickness of the insulation, the compressed Feless than the R-value specified in the table.	-
"10/15/21 +5TB" means the interior of the wall, of the interior of the basen the interior of the basen	R-10 continuous insulation on the exterior of or R-21 cavity insulation plus a thermal break nent wall. "10/15/21 +5TB" shall be permitted nent wall plus R-5 continuous insulation on the k between floor slab and basement wall.	between the slab and the basement wall at d to be met with R-13 cavity insulation on
d R-10 continuous insulation	n is required under heated slab on grade floor	rs. See Section R402.2.9.1.
e For single rafter- or joist extends over the top pla	-vaulted ceilings, the insulation may be reduct te of the exterior wall.	eed to R-38 if the full insulation depth
R-7.5 continuous insulat	on installed over an existing slab is deemed t	o be equivalent to the required perimeter

f slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall

h framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10

For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for

Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard

meet the requirements for thermal barriers protecting foam plastics.

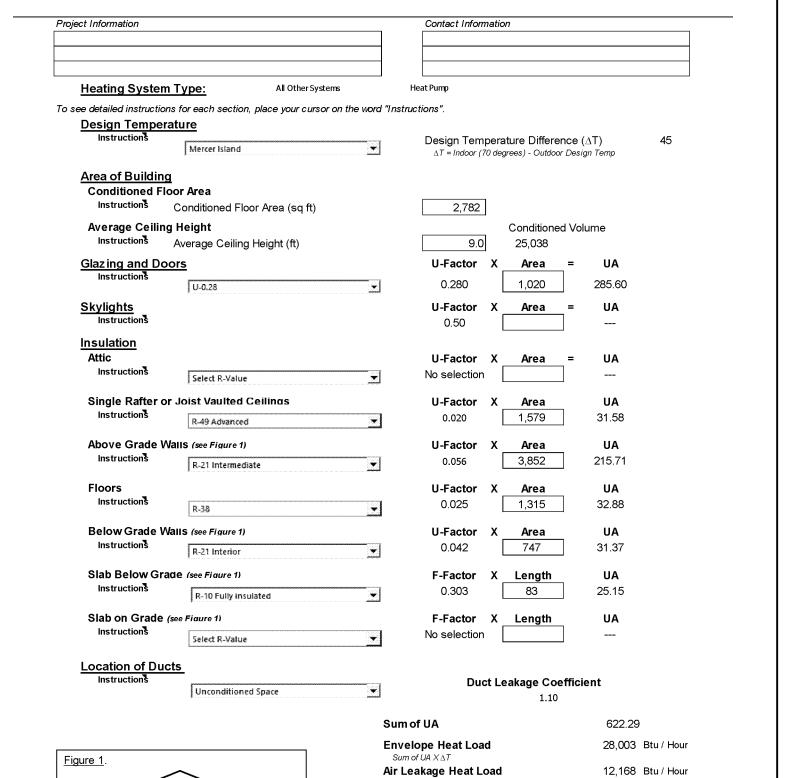
insulation.

Component				Wid	th	Heig	ht		
Description	Ref. U-factor		Qt	."Fee	t ^{Inch}	Fee	t ^{Inch}	Area	UA
ENTRY	0.28		1	6		4		24.0	6.
GREAT RM	0.28		1	10		11		110.0	30.
GREAT RM	0.28		2	4		8	6	68.0	19.
GREAT RM	0.28		1	12		8		96.0	26.
GREAT RM	0.28		1	4		6		24.0	6.
DINING	0.28		1	2		6		12.0	3.
DINING	0.28		1	12		8		96.0	26.
DINING	0.28		1	10		8		80.0	22.
KITCHEN	0.28		1	6		4		24.0	6.
HALL DECK DOOR	0.28		1	2	6	8		20.0	5.
LAUNDRY	0.28		1	4		2	6	10.0	2.
GUEST	0.28		2	2		4	6	18.0	5.
GUEST	0.28		1	7		6		42.0	11.
FOYER	0.28		1	4		6		24.0	6.
STAIR / FOYER	0.28		1	4		6		24.0	6.
ATTIC	0.28		2	7		3	6	49.0	13.
ATTIC	0.28		1	4		3	6	14.0	3.
UPPER HALL	0.28		1	4		6		24.0	6.
MASTER SUITE	0.28		2	12		8		192.0	53.
MASTER BATH	0.28		1	6		4	6	27.0	7.
MASTER BATH	0.28		1	3		4	6	13.5	3.
MASTER BATH	0.28		1	2		4		8.0	2.
BATH	0.28		1	2	6	4	6	11.3	3.
BDRM 3	0.28		2	1		4	6	9.0	2.
BDRM 3	0.28		1	7		4	6	31.5	8.
	0.28							0.0	0.
	0.28							0.0	0.
	Sum of Verti Vertical Fenestration							1019.8	285
Overhead Glazing (Skylights)							T		
Component	X X X		L	੍ਰ Wid ■ _		Heig		<u>,</u>	
Description	Ref. U-factor		Qt	Fee	ι '''''' Ι	ree	I """"	Area	UΑ
					1	_	++	0.0	0.
				+	-	_	++	0.0	0.
								0.0	0.
	Sum of O	verhes	nd Gla	nzina .	Δres	and	IJΔ	0.0	0
	Overhead Glazing							V.V	0
			- 1 - 1 - 1 - 2		Till illi			L	

Simple Heating System Size: Washington State

This heating system sizing calculator is based on the Prescriptive Requirements of the 2015 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This calculator will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling

Please fill out all of the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please call the WSU Energy Extension Program at (360) 956-2042 for assistance.



Volume \times 0.6 $\times \Delta T \times$.018

Building Design Heat Load

Air Leakage + Envelope Heat Loss

Building and Duct Heat Load

Maximum Heat Equipment Output

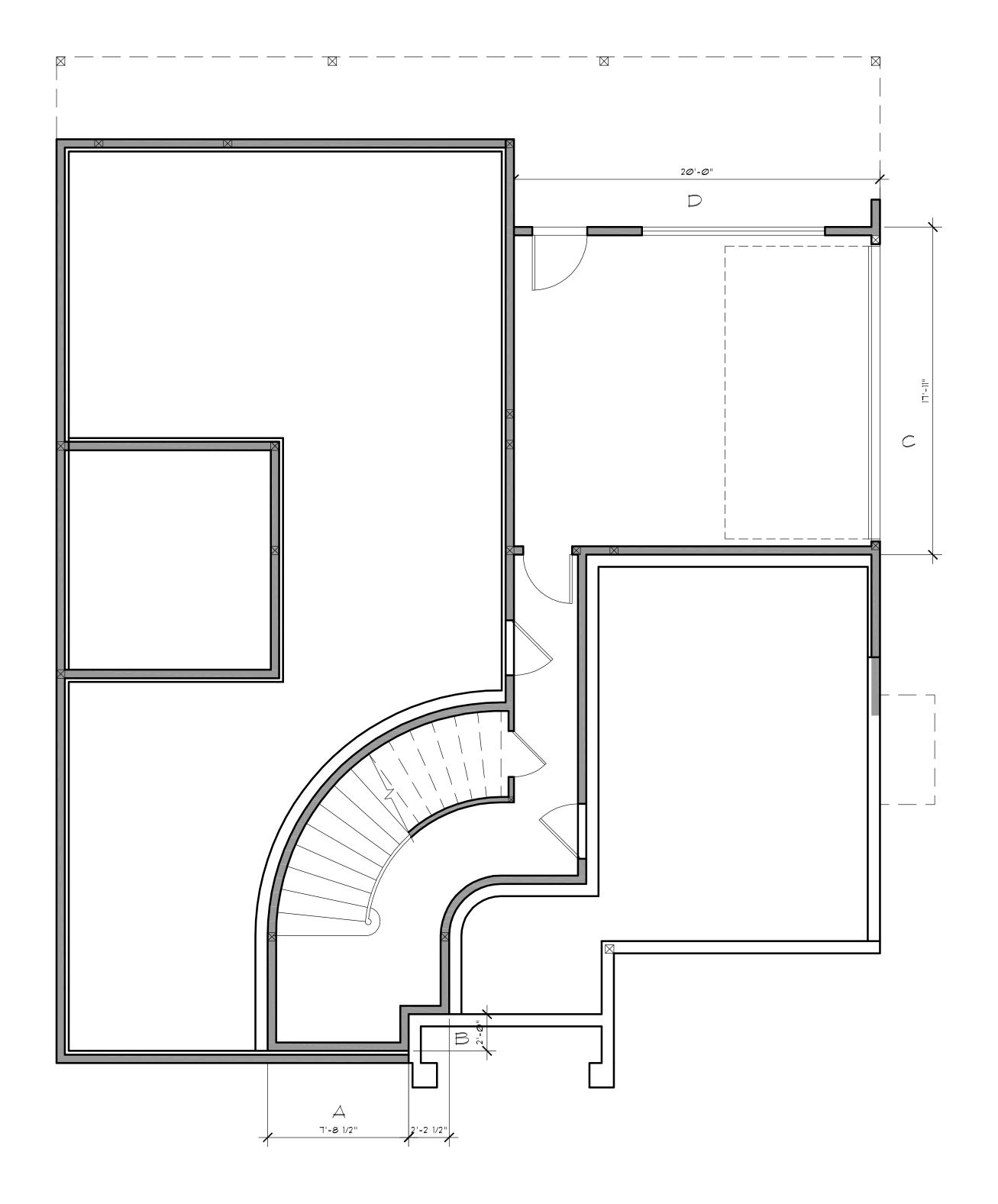
Building and Duct Heat Loss X 1.25 for Heat Pump

Ducts in unconditioned space: Sum of Building Heat Loss X 1.10 Ducts in conditioned space: Sum of Building Heat Loss X1

40,172 Btu / Hour



JOB NO: 23006 12/11/23 DRWN. BY: TH REVISED:



BASEMENT REDUCTION CALC 0' 1'
SCALE: 1/4" = 1' - 0"

BASEMENT FLOOR AREA CALCULATION							
WALL	LENGTH	COVERAGE	RESULT				
A	7.67'	36.4%	2.8%				
B	2'	33%	.7%				
C	18'	18.6%	3.5%				
D	20'	8%	1.6%				
TOTAL	47.67'		8.6%				

PORTION OF EXCLUDED BASEMENT FLOOR AREA:

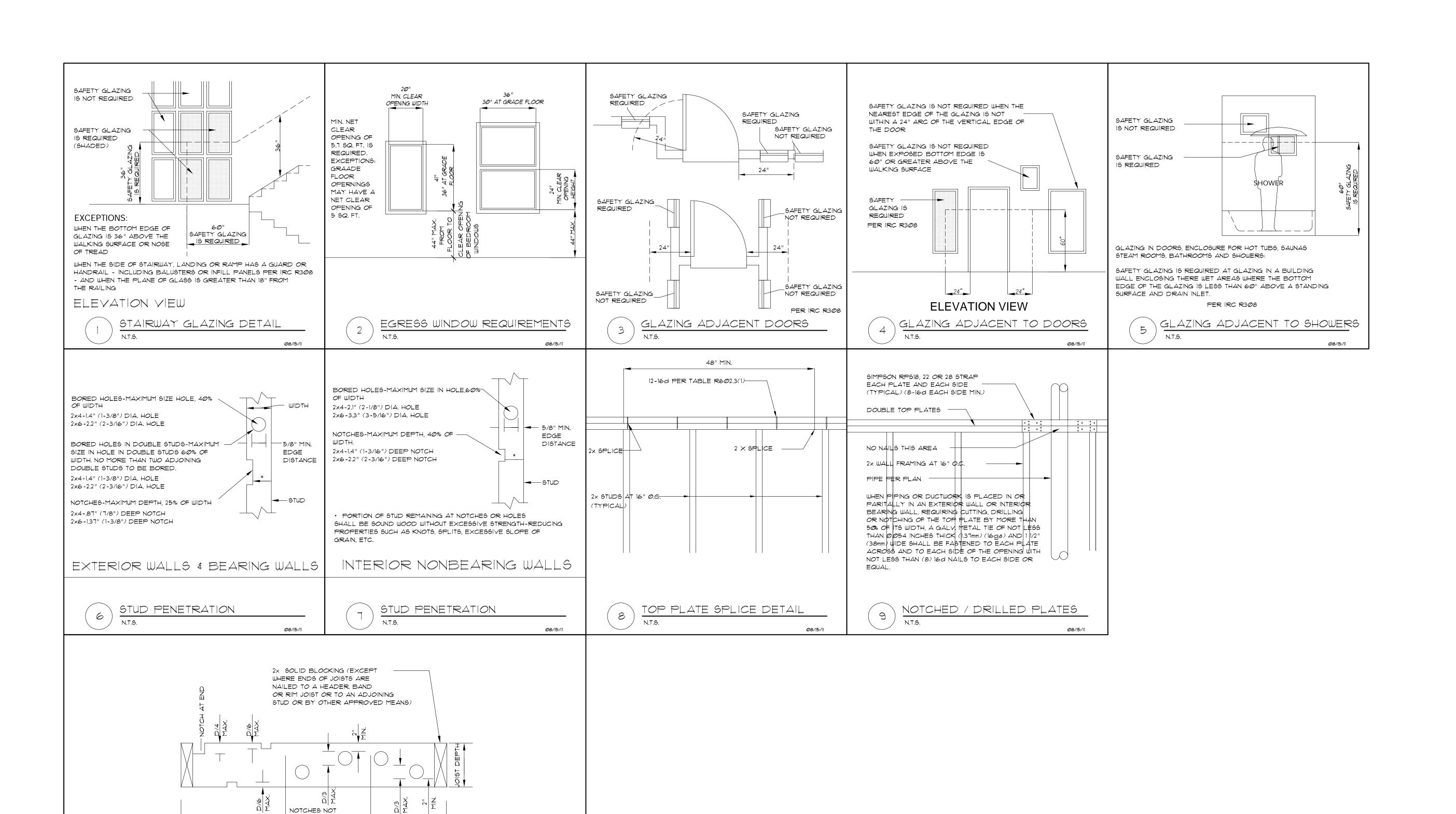
530 (ACTUAL SQ, FT. W/ GARAGE) × (8.6/47.67) = 95.61 SQ. FT.

AREA OF BASEMENT EXCLUDED = 530-95.61 = 434.4 SQ. FT.

GROSS FLOOR AREA		
LOWER FLOOR W/ GARAGE MAIN FLOOR W/ STAIR UPPER FLOOR W/ STAIR	53 <i>0</i> 1577 1254	SQ. FT. SQ. FT. SQ. FT.
TOTAL BASEMENT EXCLUDED	3361 95.61	SQ. FT. SQ. FT.
TOTAL	3265	SQ. FT.
LOT AREA	7,297	SQ, FT,
SQUARE FOOTAGE ALLOWED (45%)	3283.6	SQ. FT.

JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:





PERMITTED WITHIN THIRD OF SPAN, BUT

PERMITTED

BORED HOLES ARE

BORED HOLES

ALSO PERMITTED

NOTCHES WITHIN

STANDARD JOIST PENETRATION

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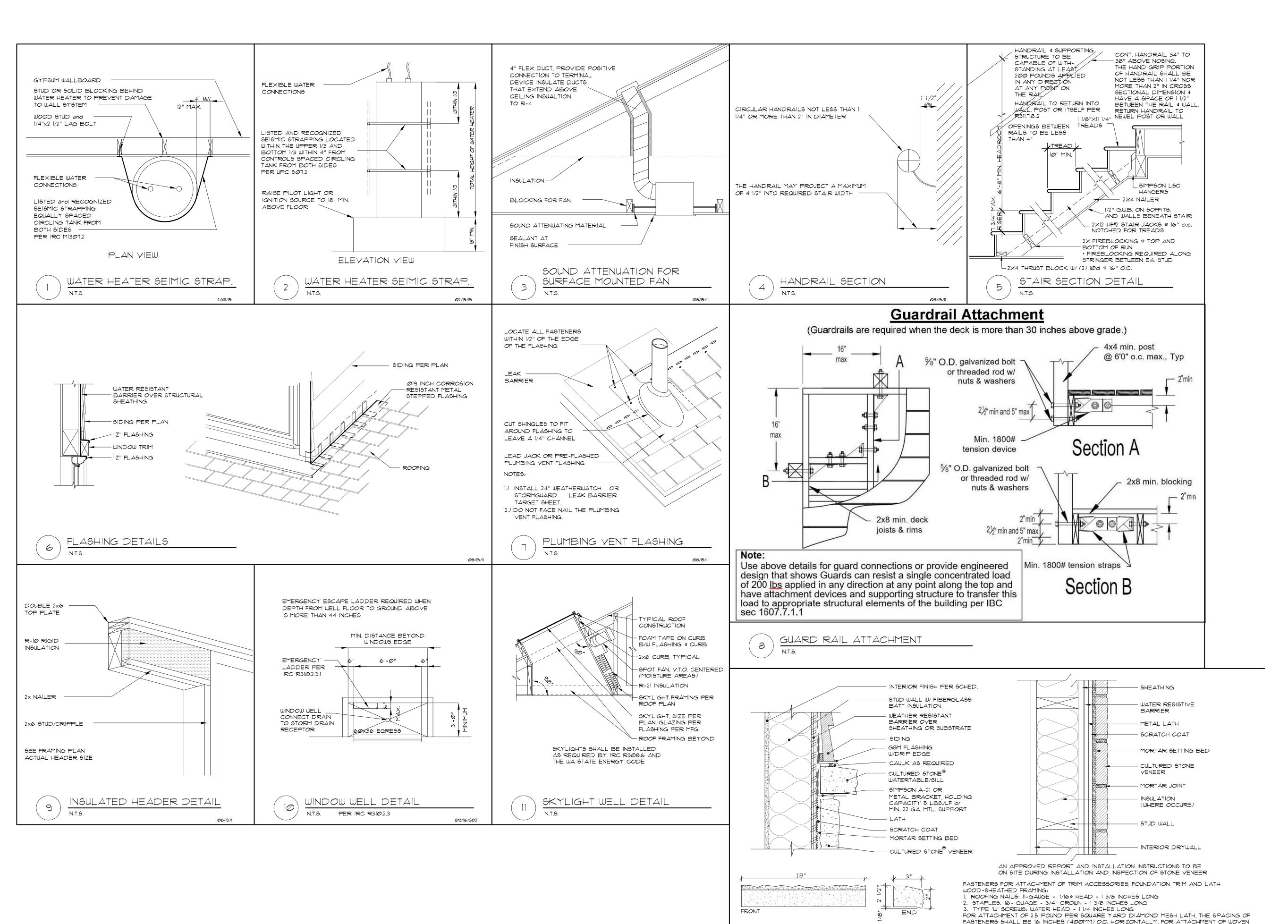
N.T.S.

1/3 SPAN EACH END

6115 SE 27TH STREET
MERCER ISLAND, WA 98040

JOB NO: 23006
DATE: 12/11/23
DRWN. BY: TH
REVISED:





WATERTABLE/SILL PROFILE

615 SE 27TH STREET
MERCER ISLAND, WA 98040

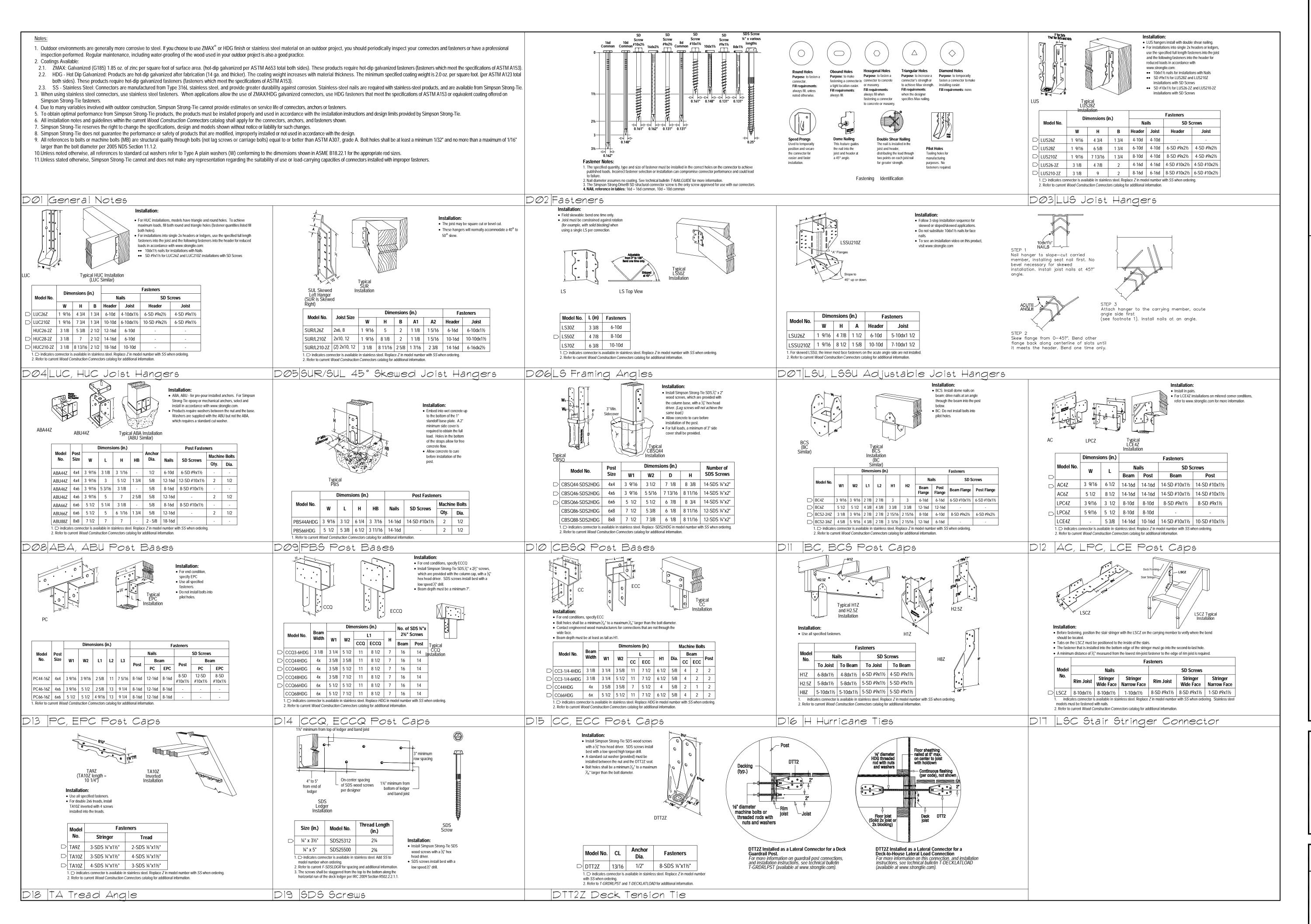
JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:

SHEET NO.

WIRE LATH, WELDED WIRE LATH AND 3.4 POUND PER SQUARE YARD DIAMOND MESH LATH, THE

SPACING OF FASTENERS SHALL BE 24 INCHES (600MM) O.C. HORIZONTALLY. VERTICAL

D2



6175 SE 277H STREET MERCER ISLAND, WA 98040

JOB NO: 23006
DATE: 12/11/23
DRWN. BY: TH
REVISED:

GENERAL REQUIREMENTS & DESIGN CRITERIA

<u>BUILDING CODE & REFERENCE STANDARDS:</u> THE "INTERNATIONAL BUILDING CODE", 2018 EDITION, GOVERNS THE DESIGN AND CONSTRUCTION OF THIS PROJECT. REFERENCE TO A SPECIFIC SECTION IN THE CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE MATERIALS REFERENCE STANDARDS NOTED BELOW. THE LATEST EDITION OF THE MATERIALS REFERENCE STANDARDS SHALL BE USED.

ARCHITECTURAL DRAWINGS: REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION INCLUDING, BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, CURBS, DRAINS, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES AND OTHER NONSTRUCTURAL ITEMS.

<u>STRUCTURAL RESPONSIBILITIES:</u> THE PE IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED STATE.

CONTRACTOR RESPONSIBILITIES: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND WSHA. THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

<u>DISCREPANCIES</u>: IN CASE OF DISCREPANCIES BETWEEN THESE GENERAL NOTES, THE CONTRACT DRAWINGS AND SPECIFICATIONS, AND/OR REFERENCE STANDARDS, THE ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR CONSTRUCTION. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL UNDERGROUND UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO EXCAVATION OR DRILLING.

WIND DESIGN: BASIC WIND SPEED (3-SECOND GUST), V = 85 MPH(ASD); WIND IMPORTANCE FACTOR, IW = 1.0; OCCUPANCY CATEGORY = II; EXPOSURE CATEGORY = C;

SEISMIC DESIGN: SEISMIC IMPORTANCE FACTOR IE = 1.0; OCCUPANCY CATEGORY = II; SS = 1.40G: S1 = 0.488G: SITE CLASS = D: SDS = 1.12G: SD1 = 0.488G: SEISMIC DESIGN CATEGORY = D: BASIC SEISMIC FORCE RESISTING SYSTEM = A-13 (BEARING WALL SYSTEMS) LIGHT-FRAMED WALLS WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE; CS = 0.121; R = 6.5; ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE PER ASCE 7, SEC 12.8.

GROUND SNOW LOAD, PG = 20 PSF; FLAT ROOF SNOW LOAD, PF = 25 PSF (DRIFT LOADS CONSIDERED PER ASCE 7 WHERE APPLICABLE); SNOW EXPOSURE FACTOR, CE = 1.0; SNOW IMPORTANCE FACTOR, IS = 1.0; THERMAL FACTOR, CT = 1.0.

<u>LIVE LOADS:</u> ROOF (LIVE) 20 PSF ROOF (SNOW) 25 PSF RESIDENTIAL FLOOR 40 PSF

RESIDENTIAL DECK

ROOF DEAD LOAD

<u>DESIGN-BY-OTHERS (DEFERRED SUBMITTALS) LOADS:</u> ALL PRE-ENGINEERED/FABRICATED/MANUFACTURED OR OTHER PRODUCTS DESIGNED BY OTHERS SHALL BE DESIGNED FOR THE TRIBUTARY DEAD AND LIVE LOADS PLUS WIND, EARTHQUAKE, AND COMPONENT AND CLADDING LOADS WHEN APPLICABLE. DESIGN SHALL CONFORM TO THE PROJECT DRAWINGS AND SPECIFICATIONS, REFERENCE STANDARDS, AND GOVERNING CODE.

60 PSF

15 PSF TOP CHORD DEAD LOAD 8 PSF 7 PSF BOTTOM CHORD DEAD LOAD TRUSS UPLIFT LOAD (GROSS) 10 PSF

DEFERRED SUBMITTALS: ITEMS DESIGNED BY OTHERS SHALL INCLUDE CALCULATIONS, SHOP DRAWINGS AND PRODUCT DATA. DESIGN SHALL BE PREPARED BY THE SSE AND SUBMITTED TO THE ARCHITECT AND SER FOR REVIEW PRIOR TO SUBMISSION TO THE JURISDICTION FOR APPROVAL. THE SSE SHALL SUBMIT TO THE ENGINEER FOR REVIEW CALCULATIONS AND SHOP DRAWINGS THAT ARE STAMPED AND SIGNED BY THE SSE. REVIEW OF THE SSE'S SHOP DRAWINGS IS FOR GENERAL COMPLIANCE WITH DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE SSE OF RESPONSIBILITY FOR THAT DESIGN. ALL NECESSARY BRACING, TIES, ANCHORAGE, AND PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS OR THE SSE'S DESIGN DRAWINGS AND CALCULATIONS.

NSPECTIONS: ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH 3C SEC 109. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

PREFABRICATED CONSTRUCTION: ALL PREFABRICATED CONSTRUCTION SHALL CONFORM TO IBC SEC 1703.6.

GEOTECHNICAL INSPECTION: THE GEOTECHNICAL ENGINEER OR BUILDING OFFICIAL SHALL INSPECT ALL PREPARED SOIL BEARING SURFACES PRIOR TO PLACEMENT OF CONCRETE AND REINFORCING STEEL AND PROVIDE A LETTER TO THE OWNER STATING THAT SOILS ARE ADEQUATE TO SUPPORT THE "ALLOWABLE FOUNDATION PRESSURE" SHOWN BELOW. SOIL VALUES SHALL BE FIELD VERIFIED BY THE BUILDING OFFICIAL OR THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE

EOTECHNICAL REPORT: RECOMMENDATIONS CONTAINED IN "GEOTECHNICAL ENGINEERING INVESTIGATION" G-6035

Y GROUP NORTHWEST, INC., DATED MAR 8, 2024 WERE USED FOR FOOTING DESIGN.

<u> DESIGN SOIL VALUES:</u> ALLOWABLE BEARING PRESSURE (ASSUMED) 2000 PSF PASSIVE LATERAL PRESSURE 350 PSF/FT ACTIVE LATERAL PRESSURE (UNRESTRAINED) 35 PSF/FT ACTIVE LATERAL PRESSURE (RESTRAINED) 45 PSF/FT

ADE ON CRADE 8. FOUNDATIONS, ALL FOUNDATIONS CHALL DEAD ON STRUCTURAL COMPACTED FILL OR COMPETENT NATIVE SOIL PER THE GEOTECHNICAL REPORT. ALL SLABS-ON-GRADE SHALL BE FOUNDED ON APPROPRIATE SUB-GRADE PREPARATION AS NOTED IN THE GEOTECHNICAL REPORT. EXTERIOR PERIMETER FOOTINGS SHALL BEAR NOT LESS THAN 18 INCHES BELOW FINISH GRADE, OR BY THE GEOTECHNICAL ENGINEER AND THE BUILDING OFFICIAL. INTERIOR FOOTINGS SHALL BEAR NOT LESS THAN 12 INCHES BELOW FINISH FLOOR.

COMPACTION: UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL ENGINEER, FOOTINGS SHALL BE PLACED ON COMPACTED MATERIAL AND SHALL BE WELL-GRADED GRANULAR MATERIAL WITH NO MORE THAN 5% PASSING A #2 SIEVE. FILLS PLACED SHALL BE IN MAXIMUM 8" LIFTS AND ALL BEARING SOILS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT USING THE MODIFIED PROCTOR TEST.

CAST-IN-PLACE CONCRETE & REINFORCEMENT

<u>REFERENCE STANDARDS</u>: CONFORM TO:

COEFFICIENT OF SLIDING FRICTION

(1) ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY". (2) IBC CHAPTER 19.

(3) ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", SEC 3 "REINFORCEMENT AND REINFORCEMENT SUPPORTS."

FIELD REFERENCE: THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) WITH SELECTED ACI AND ASTM REFERENCES."

CONCRETE MIXTURES: CONFORM TO ACI 318 CHAPTER 5 "CONCRETE QUALITY, MIXING, AND PLACING."

MATERIALS: CONFORM TO ACI 318 CHAPTER 3 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES. REINFORCING BARS ASTM A615, GRADE 60, DEFORMED BARS.

DEFORMED WELDED WIRE FABRIC ASTM A497 BAR SUPPORTS CRSI MSP-2, CHAPTER 3 "BAR SUPPORTS." 16.5 GAGE OR HEAVIER, BLACK ANNEALED. TIE WIRE

MIX DESIGNS: PROVIDE A 5-SACK MINIMUM, 28-DAY COMPRESSIVE STRENGTH F'C = 2,500 PSI CONCRETE MIX WITH MAXIMUM 3/4" AGGREGATE AND 0.50 W/C RATIO FOR ALL ISOLATED POST AND CONTINUOUS WALL FOOTINGS, SLABS-ON-GRADE, AND BASEMENT WALLS EXTENDING NO MORE THAN 8" ABOVE FINISH GRADE ELEVATION. FOR BASEMENT WALLS EXTENDING MORE THAN 8" ABOVE FINISH GRADE AND ALL SITE WALLS, PROVIDE A 5-1/2 SACK MINIMUM F'C = 3,000 PSI CONCRETE MIX WITH MAXIMUM 3/4" AGGREGATE AND 0.50 W/C RATIO.

MIX DESIGN NOTES:

(1) W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS.

(2) CEMENTITIOUS CONTENT: THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 301 SEC 4.2.2.8.B. MAXIMUM AMOUNT OF FLY ASH SHALL BE 20% OF TOTAL CEMENTITIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE BY SER.

(3) AIR CONTENT: CONFORM TO ACI 301 SEC 4.2.2.4. HORIZONTAL EXTERIOR SURFACES IN CONTACT WITH THE SOIL REQUIRE ENTRAINED AIR. USE "MODERATE EXPOSURE". VERTICAL EXTERIOR SURFACES REQUIRE "MODERATE EXPOSURE". TOLERANCE IS +/- 1-1/2%. AIR CONTENT SHALL BE MEASURED AT POINT OF

PLACEMENT. (4) SLUMP: CONFORM TO ACI 301 SEC 4.2.2.2. SLUMP SHALL BE DETERMINED AT POINT OF PLACEMENT. (5) NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50F AT THE CONTRACTOR'S OPTION.

<u>FORMWORK:</u> CONFORM TO ACI 301 SEC 2 "FORMWORK AND FORM ACCESSORIES." REMOVAL OF FORMS SHALL CONFORM TO SEC 2.3.2 EXCEPT STRENGTH INDICATED IN SEC 2.3.2.5 SHALL BE 0.75 F'C.

MEASURING, MIXING, AND DELIVERY: CONFORM TO ACI 301 SEC 4.3.

HANDLING, PLACING, CONSTRUCTING AND CURING: CONFORM TO ACI 301 SEC 5.

REBAR FABRICATION & PLACING: CONFORM TO ACI 301, SEC 3.2.2 "FABRICATION", AND ACI SP-66 "ACI DETAILING MANUAL." CONFORM TO ACI 301, SEC 3.3.2 "PLACEMENT." PLACING TOLERANCES SHALL CONFORM TO SEC 3.3.2.1 "TOLERANCES."

SPLICES: CONFORM TO ACI 301, SEC 3.3.2.7. REFER TO PLANS FOR TYPICAL SPLICES.

FIELD BENDING: CONFORM TO ACI 301 SEC 3.3.2.8. "FIELD BENDING OR STRAIGHTENING." BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS.

CORNERS BARS: PROVIDE MATCHING-SIZED "L" CORNER BARS FOR ALL HORIZONTAL WALL AND FOOTING BARS WITH THE APPROPRIATE SPLICE LENGTH, UNO.

CONCRETE COVER: CONFORM TO THE FOLLOWING COVER REQUIREMENTS FROM ACI 301, TABLE 3.3.2.3: CONCRETE CAST AGAINST EARTH

CONCRETE EXPOSED TO EARTH OR WEATHER (#5 & SMALLER) 1-1/2" BARS IN SLABS AND WALLS

CONSTRUCTION JOINTS: CONFORM TO ACI 301 SEC 2.2.2.5, 5.1.2.3A, 5.2.2.1, AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON THE CONSTRUCTION DRAWINGS. USE OF AN ACCEPTABLE ADHESIVE, SURFACE RETARDER, PORTLAND CEMENT GROUT, OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. WHERE SHEAR BOND IS REQUIRED, ROUGHEN SURFACES TO 1/4"

WOOD FRAMING

AMPLITUDE.

<u>REFERENCE STANDARDS:</u> CONFORM TO:

(1) IBC CHAPTER 23 "WOOD", (2) NDS AND NDS SUPPLEMENT — "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION",

(3) ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION", <u>DEFERRED SUBMITTALS</u>: SUBMIT PRODUCT DATA AND PROOF OF ICC APPROVAL FOR FRAMING MEMBERS AND

FASTENERS THAT HAVE BEEN DESIGNED BY OTHERS. SUBMIT CALCULATIONS PREPARED BY THE SSE IN THE STATE OF WASHINGTON FOR ALL MEMBERS AND CONNECTIONS DESIGNED BY OTHERS ALONG WITH SHOP DRAWINGS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS AND WEB STIFFENERS SHALL BE DETAILED AND FURNISHED BY THE SUPPLIER. TEMPORARY AND PERMANENT BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DEFLECTION LIMITS SHALL BE AS NOTED UNDER DESIGN LOADS SECTION.

IDENTIFICATION: ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

- <u>SAWN LUMBER:</u> CONFORM TO GRADING RULES OF WWPA, WCLIB OR NLGA. FINGER JOINTED STUDS ACCEPTABLE AT INTERIOR WALLS ONLY.

MEMBER USE	SIZE	SPECIES	GRADE
STUDS & POSTS	2x, 4x	HEM-FIR	NO. 2
RAFTERS	2x4 - 2x10	HEM-FIR	NO. 2
BEAMS	4x8 - 4x12	HEM-FIR	NO. 2
BEAMS	6x8 - 6x12	HEM-FIR	NO. 2
POSTS & TIMBERS	6v 8v	DOLIG-FIR	NO 2

- GLUED LAMINATED TIMBER: CONFORM TO AITC 117 "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUE—LAMINATED TIMBER OF SOFTWOOD SPECIES, MANUFACTURING AND DESIGN"AND ANSI/AITC A190.1 "STRUCTURAL GLUED LAMINATED TIMBER." CAMBER ALL GLUED LAMINATED MEMBERS BEAMS TO 2000' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.

SIZES SPECIES MEMBER USE SIMPLE SPANS ALL DF/DF 24F-1.8E ALL DF/DF 24F-1.8E[(-FB)=(+FB)] CANTILEVER SPANS METAL PLATE CONNECTED WOOD ROOF TRUSSES: CONFORM TO IBC SEC 2303.4 "TRUSSES." WOOD STRUCTURAL SHEATHING (PLYWOOD): WOOD APA-RATED STRUCTURAL SHEATHING INCLUDES: ALL

VENEER PLYWOOD, ORIENTED STRAND BOARD, WAFERBOARD, PARTICLEBOARD, T1-11 SIDING, AND COMPOSITES OF VENEER AND WOOD BASED MATERIAL. CONFORM TO PRODUCT STANDARDS PS-1 AND PS-2 OF THE U.S. DEPT. OF COMMERCE AND THE AMERICAN PLYWOOD ASSOCIATION (APA). MINIMUM APA RATING

LOCATION	THICKNESS	SPAN RATING	PLYWOOD GRADE	EXPOSURE
ROOF	15/32"	32/16	C-D	1
FLOOR	23/32" T&G	24 OC	STURD-I-FLOOR	1
WALLS	15/32"	32/16	C-D	1
WALLC(ALT)	7/16" ASD	21/16	CD	1

JOIST HANGERS AND CONNECTORS: SHALL BE "STRONG TIE" BY SIMPSON COMPANY OR USP EQUIVALENT AS SPECIFIED IN THEIR LATEST CATALOGS. ALTERNATE CONNECTORS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUIVALENT OR GREATER LOAD CAPACITIES AND ARE REVIEWED AND APPROVED BY THE SER PRIOR TO ORDERING. CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE 1/2 OF THE NAILS OR BOLTS IN EACH MEMBER. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. UNLESS NOTED OTHERWISE ALL NAILS SHALL BE FULL LENGTH COMMON. NAIL STRAPS TO WOOD FRAMING AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO SETTLE.

- <u>NAILS AND STAPLES:</u> CONFORM TO IBC SEC 2303.6 "NAILS AND STAPLES." UNLESS NOTED ON PLANS, NAIL PER IBC TABLE 2304.9.1. UNLESS NOTED OTHERWISE ALL NAILS SHALL BE COMMON. NAIL SIZES SPECIFIED

THE DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATION	1 S:	
SIZE	LENGTH	DIAMETER
8d	2-1/2"	0.131"
10d	3"	0.148"
(8d & 10d ALTERNATIVE) PASLODE TETRAGRIP NAILS	2-3/8"	0.113"
12d (16d SINKER)	3-1/4"	0.148"
16d	3-1/2"	0.162"

LAG BOLTS/BOLTS: CONFORM TO ASTM A307.

NAILING REQUIREMENTS: PROVIDE MINIMUM NAILING IN ACCORDANCE WITH IBC TABLE 2304.9.1 "FASTENING SCHEDULE" EXCEPT AS NOTED ON THE DRAWINGS. NAILING FOR ROOF/FLOOR DIAPHRAGMS/SHEAR WALLS SHALL BE PER DRAWINGS. NAILS SHALL BE DRIVEN FLUSH AND SHALL NOT FRACTURE THE SURFACE OF SHEATHING.

STANDARD LIGHT-FRAME CONSTRUCTION: UNLESS NOTED ON THE PLANS, CONSTRUCTION SHALL CONFORM TO IBC SEC 2308 "CONVENTIONAL LIGHT-FRAME CONSTRUCTION" AND IBC SEC 2304 "GENERAL CONSTRUCTION REQUIREMENTS."

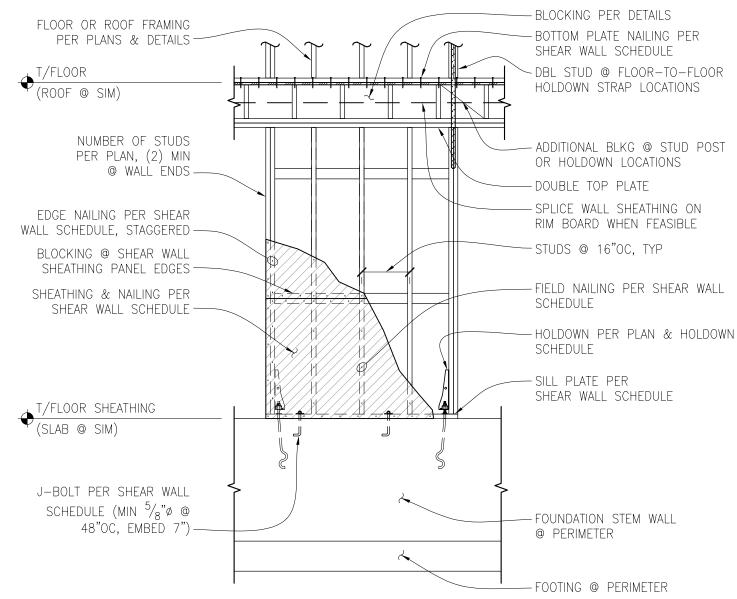
(1) WALL FRAMING: UNLESS OTHERWISE NOTED, ALL INTERIOR WALLS SHALL BE 2X4 @ 16"OC AND ALL EXTERIOR WALLS SHALL BE 2X6 @ 16"OC. PROVIDE (2)BUNDLED STUDS MIN AT WALL ENDS AND EACH SIDE OF ALL OPENINGS. UNO, ALL SOLID SAWN LUMBER HEADERS SHALL BE SUPPORTED BY A MINIMUM OF (1)TRIM AND (1)KING STUD AND ALL GLULAM OR ENGINEERED WOOD HEADERS BY (2)TRIM AND (2)KING STUDS. AT FRAMED WALLS, UNO, ALL SOLID SAWN LUMBER BEAMS SHALL BE SUPPORTED ON A MINIMUM OF (2) BUNDLED 2X STUDS AND ALL GLULAM OR ENGINEERED WOOD BEAMS ON A MINIMUM OF (3) BUNDLED 2X STUDS. STITCH-NAIL BUNDLED STUDS WITH (2)10D @ 12"OC. UNO, ALL INTERIOR AND EXTERIOR HEADERS SHALL BE 4X6. PROVIDE SOLID BLOCKING THRU FLOORS TO SUPPORTS BELOW FOR BEARING WALLS AND POSTS. UNO, ATTACH BOTTOM PLATES OF STUD WALLS TO WOOD FRAMING BELOW WITH 16D @ 12"OC OR TO CONCRETE WITH 5/8"-DIA. ANCHOR BOLTS X 7" EMBEDMENT AT 48"OC. REFER TO SHEAR WALL SCHEDULE FOR SPECIFIC SHEATHING, STUD, AND NAILING REQUIREMENTS AT SHEAR WALLS. UNO, PROVIDE GYPSUM SHEATHING ON INTERIOR SURFACES AND PLYWOOD SHEATHING ON

(2) ROOF/FLOOR FRAMING: UNLESS OTHERWISE NOTED, PROVIDE DOUBLE JOISTS/RAFTERS UNDER ALL PARALLEL BEARING PARTITIONS AND SOLID BLOCKING AT ALL BEARING POINTS. PROVIDE DOUBLE JOISTS AROUND ALL ROOF/FLOOR OPENINGS. UNO, MULTI-JOISTS/RAFTERS SHALL BE STITCH-NAILED TOGETHER WITH (2)10D @ 12"OC. PROVIDE ROOF SHEATHING EDGE CLIPS CENTERED BETWEEN FRAMING AT UNBLOCKED PLYWOOD EDGES. ALL FLOOR SHEATHING SHALL HAVE TONGUE AND GROOVE JOINTS OR BE SUPPORTED BY SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF ROOF/FLOOR SHEATHING. ROOF/FLOOR SHEATHING SHALL BE LAID FACE GRAIN PERPENDICULAR TO FRAMING MEMBERS.

MOISTURE CONTENT: WOOD MATERIAL USED FOR THIS PROJECT SHALL HAVE MAXIMUM MOISTURE CONTENT OF 19% EXCEPT FOR THE PRESSURE—TREATED WOOD SILL PLATE.

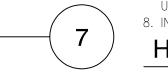
PRESERVATIVE TREATMENT: WOOD MATERIALS ARE REQUIRED TO BE "TREATED WOOD" UNDER CERTAIN CONDITIONS IN ACCORDANCE WITH IBC SEC 2304.11 "PROTECTION AGAINST DECAY AND TERMITES". CONFORM TO THE APPROPRIATE STANDARDS OF THE AMERICAN WOOD-PRESERVERS ASSOCIATION (AWPA) FOR SAWN LUMBER, GLUED LAMINATED TIMBER, ROUND POLES, WOOD PILES AND MARINE PILES. FOLLOW AMERICAN LUMBER STANDARDS COMMITTEE (ALSC) QUALITY ASSURANCE PROCEDURES. PRODUCTS SHALL BEAR THE APPROPRIATE

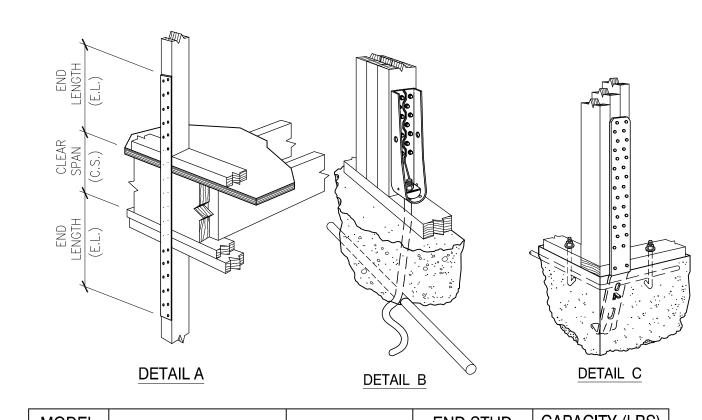
METAL CONNECTORS/PT WOOD: CK ENGINEERING LLC RECOMMENDS THAT ALL METAL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER BE STAINLESS STEEL TYPE 316L. AT THE OWNER'S RISK AND DISCRETION, HOT-DIPPED GALVANIZED METAL HARDWARE AND FASTENERS MAY BE INVESTIGATED FOR USE IN LIEU OF STAINLESS STEEL PROVIDED THAT THE FINISH HAS A MINIMUM ZINC CONTENT OF AT LEAST 1.85 OZ/SF AND ITS USE IS COORDINATED BY THE CONTRACTOR AND WOOD SUPPLIER FOR THE EXPECTED ENVIRONMENT AND MOISTURE EXPOSURE FOR APPROPRIATE USE BASED ON THE METHOD OF PRESERVATIVE TREATMENT OF THE



TYPICAL SHEAR WALL ELEVATION

SCALE: N.T.S.





	MODEL	ANCHORAGE TYPE (4.5.6)	FASTENERS	END STUD	CAPACITY (LBS)		
	# (1)	/ (4,5,6)	TAGILINEILO	REQUIRED (2,3)	DOUG-FIR	HEM-FIR	
	CS14	FLR-TO-FLR STRAP (E.L.=19")	(30) 10d COMMON	2x STUD	2,490	2,490	
	MST48	FLR-TO-FLR STRAP (CNTR'D ON C.S.)	(32) 16d COMMON	(2) 2x STUDS	3,960	3,425	
	MST60	FLR-TO-FLR STRAP (CNTR'D ON C.S.)	(46) 16d COMMON	(2) 2x STUDS	6,235	5,405	
	MST72	FLR-TO-FLR STRAP (CNTR'D ON C.S.)	(62) 16d COMMON	(2) 2x STUDS	6,730	6,475	
	CMST12	FLR-TO-FLR STRAP (E.L.=38")	(84) 16d COMMON	(3) 2x STUDS	9,215	9,215	
	STHD14/RJ	CAST-IN-PLACE	(22) 16d SINKERS	(2) 2x STUDS ⁷	3,695	3,695	
	HDU11	SB1x30	(30) ¹ / ₄ "øx2 ¹ / ₂ " SDS WOOD SCREWS	6x6 DF#2 MIN.	9,335		
1	HDU14	PAB8	(4) 1"ø	6X6 DF#2 MIN.	14,445		
	HD19	РАВ9	(5) 1"ø	6X6 DF#2 MIN.	16,775		
N	OTES:					<u> </u>	

1. HOLDOWNS SPECIFIED ARE AS MANUFACTURED BY SIMPSON ANCHOR TIE DOWN CO., INC; ACCEPTABLE EQUIVALENT PRODUCT SUBSTITUTIONS ARE AVAILABLE FROM OTHER MANUFACTURERS WITH SER APPROVAL. 2. LOCATE ALL HOLDOWNS AT ENDS OF ALL SHEAR WALLS & FASTEN TO BUNDLED END STUDS. 3. BUNDLED END STUDS SHOULD BE STITCH-NAILED TOGETHER USING MINIMUM (2) 16d @ 10"OC, UNO. 4. LOCATE "HDU#", "LSTHD#" & "STHD#" HOLDOWNS AT CONCRETE FOUNDATION LEVEL. (DETAIL B & C) LOCATE "CS#", "MST", "MSTC#" & "CMST#" STRAPS AT FLOOR-TO-FLOOR CONNECTIONS. (DETAIL A) 5. ALL HOLDOWN ANCHOR BOLTS SHALL BE MIN 5" FROM CONCRETE WALL ENDS. 6. USE "SSTB" FOR 2x SILL PLATES & "SSTBL" FOR 3x SILL PLATES.

7. ADDITIONAL END STUD REQUIRED TO MEET MINIMUM $1\frac{1}{2}$ " EDGE DISTANCE FROM CONCRETE CORNER TO "STHD" STRAP. USE "RJ" STYLE WITH "STHD" WHERE RIM JOIST IS PRESENT. 8. INSTALL ALL HOLDOWN HARDWARE PER MANUFACTURER'S INSTRUCTIONS & RECOMMENDATIONS.

HOLDOWN SCHEDULE

SCALE: N.T.S.

		W	OOD-FRAMED	SHEAR WALL	SCHEDUL	.E		
			FOR HEM	-FIR/DOUG-FIR STUD FRAMII	NG			
SW	SW SHEATHING	NAIL SIZE &	RIM JOIST OR BLOCKING	BOTTOM PLATE & E REQUIREME		SILL PLATE REQU	SHEAR LOAD	
TYPE	APA-RATED [1, 2, 12]	SPACING @ PANEL EDGES	ATTACHMENT TO TOP PLATE BELOW [8, 9]	SHEAR NAILING TO WOOD FRAMING BELOW	BOTTOM PL AT FRAMING	ANCHOR BOLT TO CONCRETE FOUNDATION	SILL PL AT FOUNDATION [11]	CAPACITY (PLF)
SW-6	15/32" CD-EXT	0.131"ø x 2 ¹ / ₂ " @ 6"OC	CLIP @ 18"0C	0.148"ø x 3 ¹ / ₄ " @ 6"0C	2×	⁵ / ₈ "ø @ 48"0C	P.T. 2x	242
CW 4	15/32" CD-EXT	0.131 ° × $2^{1}/_{2}$ °	0110 @ 44"00	0.148 "ø x $3^{1}/_{4}$ " @ 4"OC 3x	3x	⁵ / ₈ "ø ⊚ 32"0C	P.T. 2x	353
SW-4	13/32 CD-EXI	@ 4"OC ¹²	CLIP @ 14"OC	0.148 Ø X 3 / ₄	SX [15]	⁵ / ₈ "ø @ 48"0C	P.T. 3x [15]	333
SW-3	15/32" CD-EXT	$32" \text{ CD-FXT}$ 0.131"ø x $2^{1}/2"$ CLIP @ 13"0C 0.148"ø x $3^{1}/4$ " @ 4"0C	3x	⁵ / ₈ "ø @ 24"OC	P.T. 2x	456		
2W-2	13/32 CD-EXT	@ 3"OC, STAGGERED	CLIP @ 12"0C	& CLIP @ 18"0C	Jx [15 ⁻	⁵ / ₈ "ø @ 32"OC	P.T. 3x [15]	436
SW-2	15/32" CD-EXT	0.131 ° × $2^{1}/_{2}$ °	CLIP @ 8"OC	0.148"ø x 3 ¹ / ₄ " @ 4"0C	3x	⁵ / ₈ "ø @ 16"OC	P.T. 2x	595
2W-Z	13/32 CD-EXT	@ 2"OC, STAGGERED	CLIP @ 8 OC	& CLIP @ 16"0C	JX [15]	⁵ / ₈ "ø @ 24"OC	P.T. 3x [15]	595
2SW-4	15/32" CD-EXT BOTH SIDE	0.131"ø x $2^{1}/2$ " @ 4"OC, STAGGERED	CLIP @ 6"OC	0.148"ø x 3 ¹ / ₄ " @ 4"0C & CLIP @ 12"0C	3x	⁵ / ₈ "ø @ 24"0C	P.T. 3x	707
2SW-3	15/32" CD-EXT BOTH SIDE	0.131"ø x $2^{1}/_{2}$ " @ 3"OC, STAGGERED	CLIP @ 8"OC BOTH SIDES, STAGGERED	0.148"ø x 3 ¹ / ₄ " @ 4"0C & CLIP @ 8"0C	3x [15]	⁵ / ₈ "ø @ 16"0C	P.T. 3x	911
2SW-2	15/32" CD-EXT BOTH SIDE	0.131"ø x $2^{1}/_{2}$ " @ 2"OC, STAGGERED	CLIP @ 6"OC BOTH SIDES, STAGGERED	0.148"ø x 3 ¹ / ₄ " @ 4"0C & CLIP @ 5"0C	3x [15]	⁵ / ₈ "ø @ 12"OC	P.T. 3x	1190

SCALE: N.T.S.

1. INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY

- 2. WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON OPPOSITE SIDES ARE NOT LOCATED ON THE SAME
- 3. BLOCKING IS REQUIRED AT ALL PANEL EDGES.
- 4. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY WINDOWS, OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLDOWN REQUIREMENTS PER PLANS.
- 5. SHEAR WALLS DESIGNATED AS PERFORATED SHEAR WALLS REQUIRE SHEATHING, SHEAR WALL NAILING, ETC. ABOVE AND BELOW ALL OPENINGS).
- 6. SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLDOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLDOWN POSTS. ADDITIONAL INFORMATION PER HOLDOWN SCHEDULE & DETAILS.

8. BASED ON 0.131"0 x $1\frac{1}{2}$ " NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE

- 7. INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS. ATTACH SHEATHING TO INTERMEDIATE FRAMING 13. AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF SINGLE 3x WITH 0.148"Ø x $2\frac{1}{2}$ " NAILS AT 12"OC WHERE STUDS ARE SPACED AT 16"OC AND 0.148"Ø x $2\frac{1}{2}$ " NAILS AT 6"OC WHERE STUDS ARE SPACED AT 24"OC.
- 0.131"0 x $2^{1}/_{2}$ " NAILS WHERE INSTALLED OVER SHEATHING. 9. FRAMING CLIPS: SIMPSON "A35" OR "LTP5" OR APPROVED EQUIVALENT.
- WOOD-FRAMED SHEAR WALL SCHEDULE

- 10. ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS $3"\times3"\times0.229"(MIN)$. THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED $^{13}/_{16}"\times1^{3}/_{4}"$ PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT. PLATE WASHER TO EXTEND TO WITHIN $\frac{1}{2}$ " OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) WITH SHEATHING. WHERE SHEAR WALLS ARE SHEATHED ON BOTH SIDES OF 2x6 WALL FRAMING, USE 4.5"x4.5"x0.229"(MIN) PLATE WASHERS. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE. 11. PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES (FRAMING ANGLES, ETC.) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS. ADDITIONAL INFORMATION PER STRUCTURAL NOTES.
- 12. WHERE WOOD SHEATHING IS APPLIED OVER GYPSUM SHEATHING, CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS.
- STUD. DOUBLE 2X STUDS SHALL BE CONNECTED TOGETHER BY NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING.
- 14. CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVES TO CAST-IN-PLACE ANCHOR BOLTS. SPECIAL INSPECTION MAY BE REQUIRED. 15. NAIL STUDS TO 3x BOTTOM/SILL PLATES WITH EITHER (2) 0.148"Øx4" END NAILS OR
- (4) 0.131" $0 \times 2^{1/2}$ " TOENAILS.

5 |S

Drawn By: PK Checked By: SC Date: 3-15-2024

CK JOB NO.

NOTES/SCHED.

STRUCTURAL

-BUNDLED STUDS PER PLAN OR @ HOLDOWN LOCATIONS

-HOLDOWN PER PLAN &

-ADD'L PL WASHER &

ANCHOR BOLTS PER

SHEAR WALL SCHEDULE

- ANCHOR BOLT & EMBED

PER HOLDOWN SCHEDULE

— CONCRETE STEM WALL

- CONCRETE FOOTING

- POST AND ABU BASE PER PLAN

-12" ø SONO TUBE w/ (3) #4 BARS (VERT.) w/#3 STIRRUPS @

B/FOOTING

8

12" OC.

- BOT. PLATE & NAILING PER

_____"LTP5" CLIPS PER SHEAR WALL

SCHEDULE, TYP (SEE NOTES)

SHEAR WALL SCHEDULE

ADHESIVE

PER PLAN

PER PLAN

T/FIN GRADE

NUT @ HOLDOWN

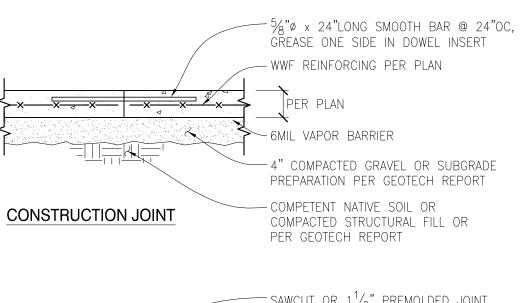
SCHEDULE

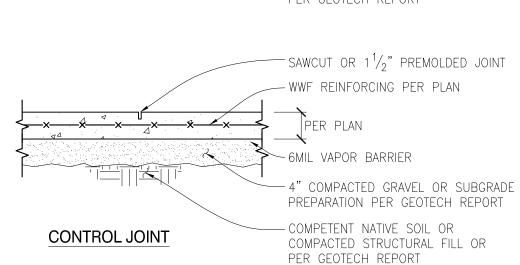
OME NEW

Drawn By: PK Checked By: SC Date: 12-8-2023

CK JOB NO. 23-043

STRUCTURAL **DETAILS**





#4 x ______ @ 24"0C

#4 CONTINUOUS, TOP

-SIDEWALK OR GRADE

ELEVATION PER PLAN

SLAB ON GRADE &

SUBGRADE PER 2/S3.0 —

STEEP AS POSSIBLE

COMPETENT NATIVE SOIL OR

COMPACTED STRUCTURAL FILL

OR PER GEOTECH REPORT —

SPLICE LENGTH

BAR LENGTH

REINF PER PLAN-

PER PLAN

TYPICAL THICKENED SLAB EDGE FOOTING

REINFORCING PER PLAN —

T/SLAB

SCALE: $\frac{3}{4}$ " = 1'-0"

1. FOR CONSTRUCTION OR CONTROL JOINT LOCATIONS REFERENCE FOUNDATION/SLAB PLAN 2. USE "SOFTCUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST

<u>) IES:</u>
WALL SIZE & REINFORCING PER PLAN. 2. CORNER BARS SIZE & SPACING TO MATCH HORIZONTAL REINFORCING.

AT CORNERS

CONC CURB WHERE OCCURS

W/(1) #4 HORIZONTAL, EXTEND VËRTICAL DOWELS —

SLAB ON GRADE &

REINF PER PLAN —

- CORNER BARS TO

REINFORCING

MATCH CROSS WALL

ALTERNATE HOOK <

TYPICAL SHEAR WALL HOLDOWN TYPICAL CORNER BARS CONNECTIONS AT FOUNDATION CONCRETE WALL AT CONCRETE WALLS - SINGLE MAT 3 SCALE: N.T.S. SCALE: N.T.S.

-WALL FRAMING PER PLAN,

SHEAR WALL WHERE OCCURS

- p.t. sill $\mathbb R$ w/ anchor bolts

PER SW SCHEDULE OR NOTES

— EDGE NAILING

CONC STEM WALL &

REINF PER PLAN

BAR

AT INTERSECTIONS

CORNER BARS TO

-INTERSECTING WALL

LENGTH

28"

36"

REINFORCING

SPLICE LENGTH

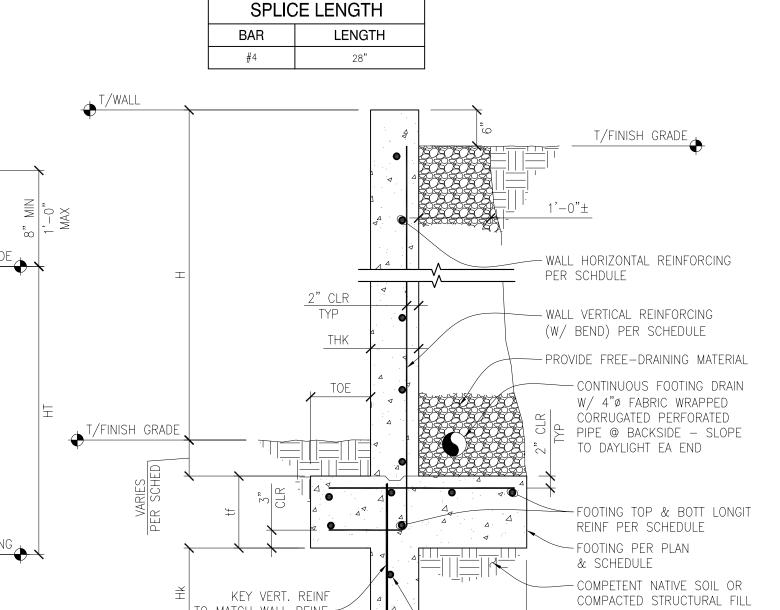
T/GRADE

MATCH CROSS WALL

3. PROVIDE CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS OF 225 SF MAX

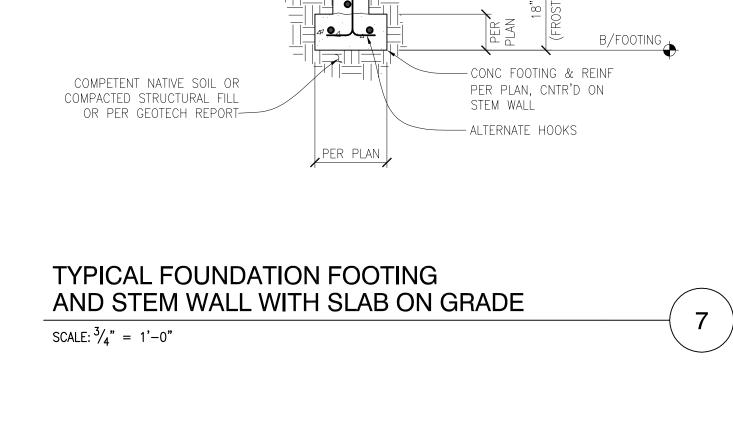
TYPICAL SLAB ON GRADE JOINT DETAILS

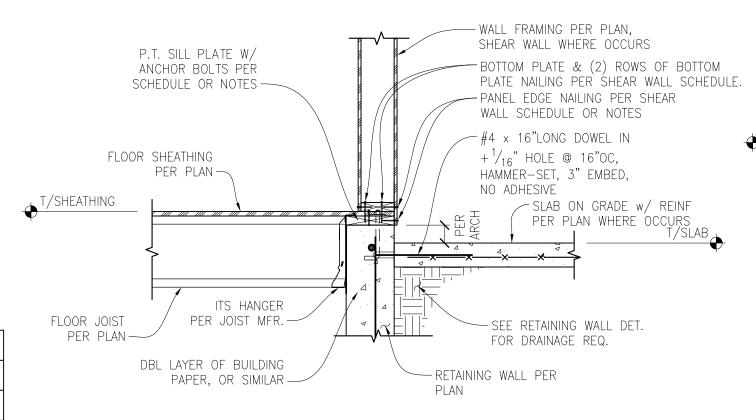
SCALE: N.T.S.

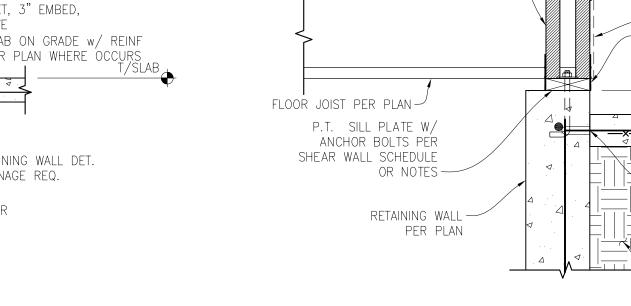


RETAINING WALL/FOOTING SCHEDULE											
		WALL					FOOTING	G			
SIZE REINFORCEMENT			SIZE			REINFORCEMENT					
HT (MAX)	THK	VERTICAL	HORIZONTAL	TOE	HEEL	DEPTH	TOP/TRANSV	TOP/LONGIT	BOTTOM/LONGIT		
4'-0"	8"	#4 @ 12"OC	#4 @ 12"OC	1'-0"	1'-6"	10"	#4 @ 10"OC	(3) #4	(2) #4		
6'-0"	8"	#4 @ 8"OC	#4 @ 12"OC	2'-6"	1'-6"	10"	#4 @ 10"OC	(4) #4	(3) #4		
8'-0"	8"	#5 @ 10"OC	#4 @ 12"OC	3'-6"	2'-0"	14"	#5 @ 10"OC	(5) #5	(3) #5		
9'-0"	8"	#5 @ 8"OC	#4 @ 12"OC	3'-6"	3'-0"	14"	#5 @ 10"0C	(6) #5	(4) #5		

RETAINING WALL/FOOTING SCHEDULE											
		WALL					FOOTING	G			
SIZE REINFORCEMENT					SIZE REINFORCEMENT			IENT			
HT (MAX)	THK	VERTICAL	HORIZONTAL	TOE	HEEL	DEPTH	TOP/TRANSV	TOP/LONGIT	BOTTOM/LONGIT	Hk	
4'-0"	8"	#4 @ 12"OC	#4 @ 12"OC	1'-6"	1'-6"	10"	#4 @ 10"OC	(3) #4	(3) #4	18"	
6'-0"	8"	#4 @ 8"OC	#4 @ 12"OC	2'-0"	1'-6"	12"	#4 @ 10"OC	(4) #4	(4) #4	30"	
	HT (MAX) 4'-0"	HT (MAX) THK 4'-0" 8"	WALL SIZE REINFOR HT (MAX) THK VERTICAL 4'-0" 8" #4 @ 12"0C	WALL SIZE REINFORCEMENT HT (MAX) THK VERTICAL HORIZONTAL 4'-0" 8" #4 @ 12"OC #4 @ 12"OC	WALL SIZE REINFORCEMENT HT (MAX) THK VERTICAL HORIZONTAL TOE 4'-0" 8" #4 @ 12"OC #4 @ 12"OC 1'-6"	WALL SIZE REINFORCEMENT SIZE HT (MAX) THK VERTICAL HORIZONTAL TOE HEEL 4'-0" 8" #4 @ 12"0C #4 @ 12"0C 1'-6" 1'-6"	WALL SIZE REINFORCEMENT SIZE HT (MAX) THK VERTICAL HORIZONTAL TOE HEEL DEPTH 4'-0" 8" #4 @ 12"OC #4 @ 12"OC 1'-6" 1'-6" 10"	WALL FOOTING	WALL SIZE REINFORCEMENT SIZE REINFORCEMENT HT (MAX) THK VERTICAL HORIZONTAL TOE HEEL DEPTH TOP/TRANSV TOP/LONGIT 4'-0" 8" #4 @ 12"OC #4 @ 12"OC 1'-6" 1'-6" 10" #4 @ 10"OC (3) #4	WALL SIZE REINFORCEMENT HT (MAX) THK VERTICAL HORIZONTAL TOE HEEL DEPTH TOP/TRANSV TOP/LONGIT BOTTOM/LONGIT 4'-0" 8" #4 @ 12"OC #4 @ 12"OC 1'-6" 1'-6" 10" #4 @ 10"OC (3) #4 (3) #4	







ADD ADDITIONAL STUDS @ HOLDOWN

T/FOUNDATION WALL

T/FOOTING

STRAPS OR FLOOR-TO-FLOOR

ANCHOR BOLTS & PL WASHERS

PER SHEAR WALL SCHEDULE —

P.T. BOTTOM PLATE ~

CONCRETE FTNG PER PLAN —

COMPETENT NATIVE SOIL OR

PER GEOTECH REPORT -

NEW FOOTING/POST CONNECTION

 $1\frac{3}{4}$ " LVL BLOCKING

(ALIGNED WITH WALL EDGE)_

COMPACTED STRUCTURAL FILL OR

SCALE: $\frac{3}{4}$ " = 1'-0"

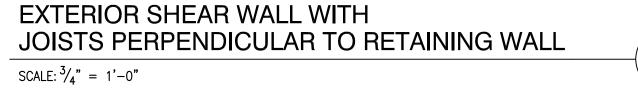
CONNECTIONS -

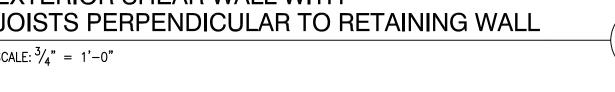
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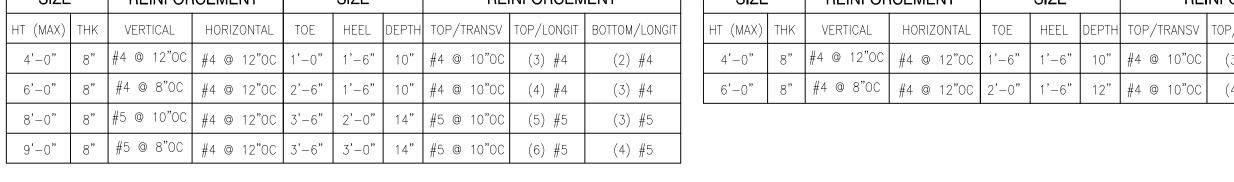
SIZE & REINFORCING PER PLAN

& FOOTING

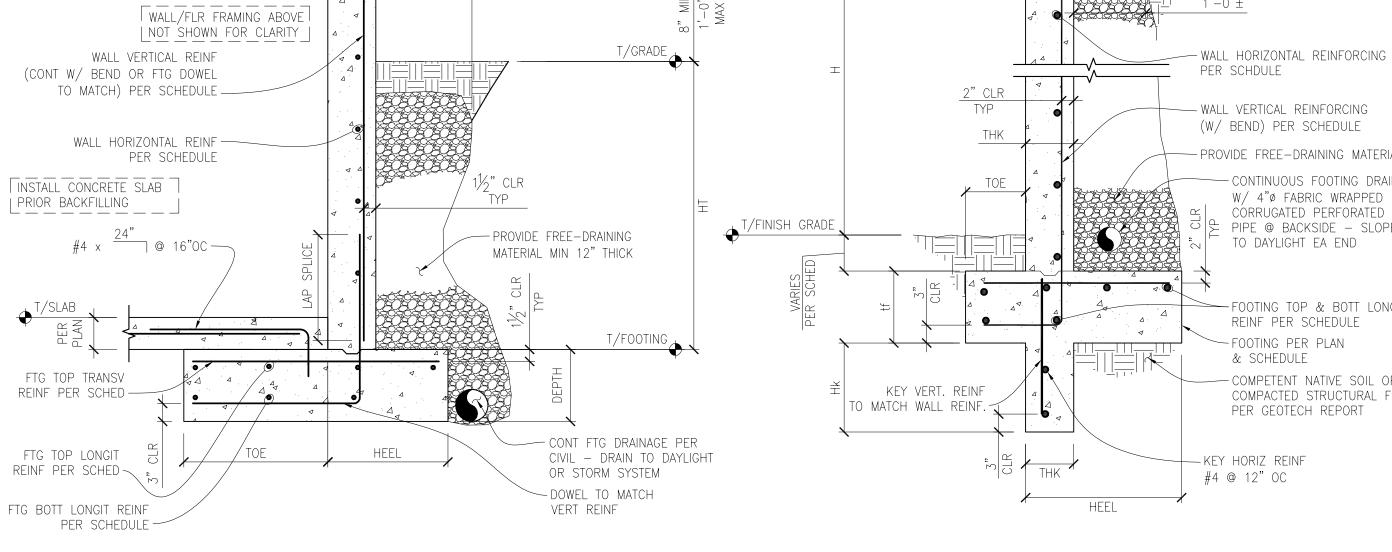
TALL CRAWL SPACE RETAINING WALL S	S







SCHEDULE



RETAINING WALL/FOOTING SCHEDULE											
		WALL			FOOTING						
SIZE		ZE REINFORCEMENT		SIZE REINFORCEMENT							
HT (MAX)	THK	VERTICAL	HORIZONTAL	TOE	HEEL	DEPTH	TOP/TRANSV	TOP/LONGIT	BOTTOM/LONGIT	Hk	
4'-0"	8"	#4 @ 12"OC	#4 @ 12"OC	1'-6"	1'-6"	10"	#4 @ 10"OC	(3) #4	(3) #4	18"	
6'-0"	8"	#4 @ 8"OC	#4 @ 12"OC	2'-0"	1'-6"	12"	#4 @ 10"OC	(4) #4	(4) #4	30"	

TO RETAINING WALL CONNECTION SCALE: 1" = 1'-0"

RETAINING WALL SCHEDULE SCALE: N.T.S.

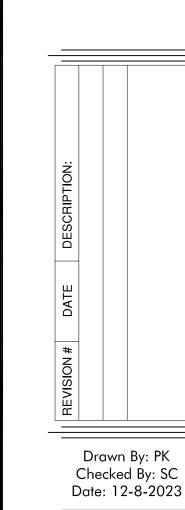
SHEATHING PER PLAN -SHEAR WALL NAILING PER T/SHEATHING SHEAR WALL SCHEDULE -"LTP5" CLIPS PER SHEAR WALL SCHEDULE, TYP (SEE NOTES) -"LTP5" CLIPS (EACH SIDE) PER SHEAR WALL SCHEDULE, TYP (SEE NOTES) (WHERE OCCURS)

11

#4 X 16"LONG DOWEL IN $+\frac{1}{16}$ " HOLE @ 16"0C, HAMMER-SET, 3" EMBED, NO

— SEE RETAINING WALL DET. FOR DRAINAGE REQ. DBL SIDED SHEAR WALL

SCALE: N.T.S.

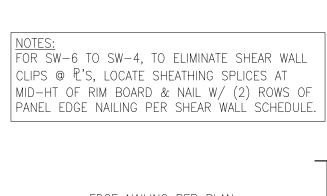


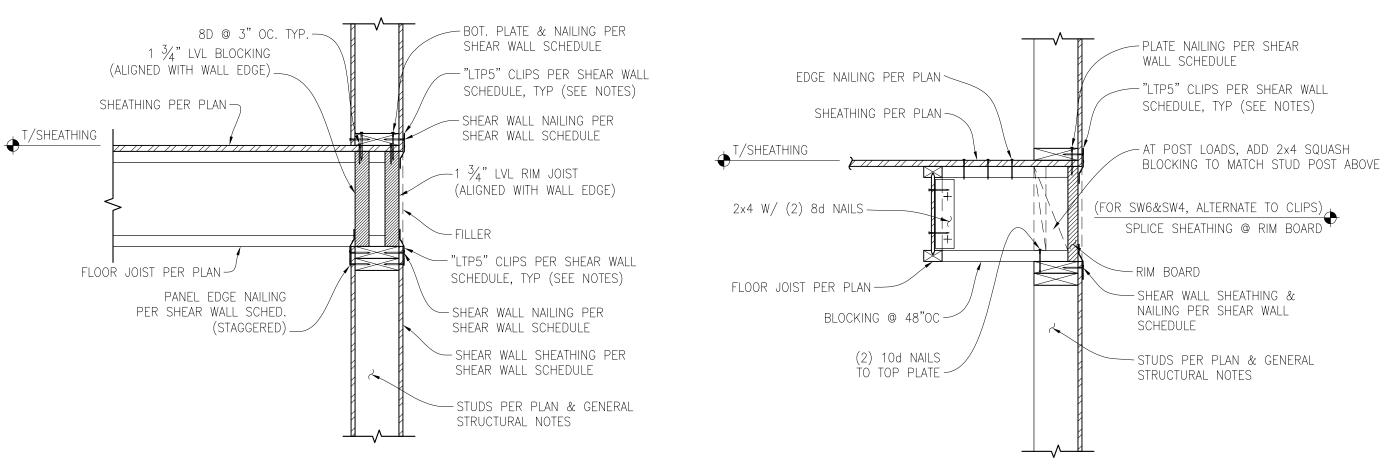
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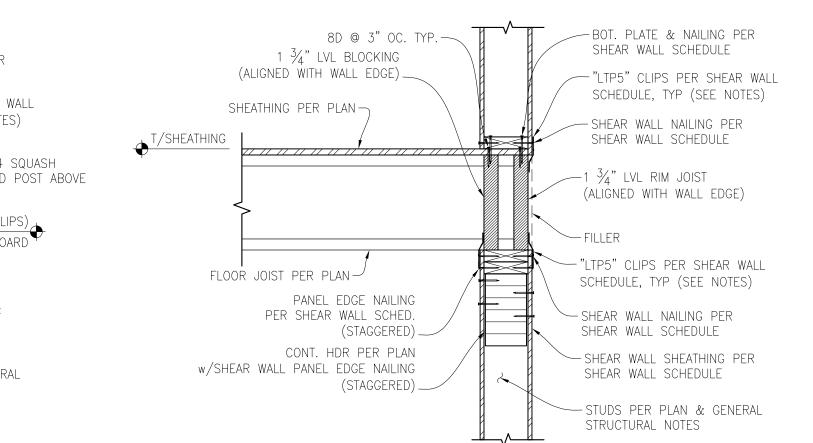
STRUCTURAL

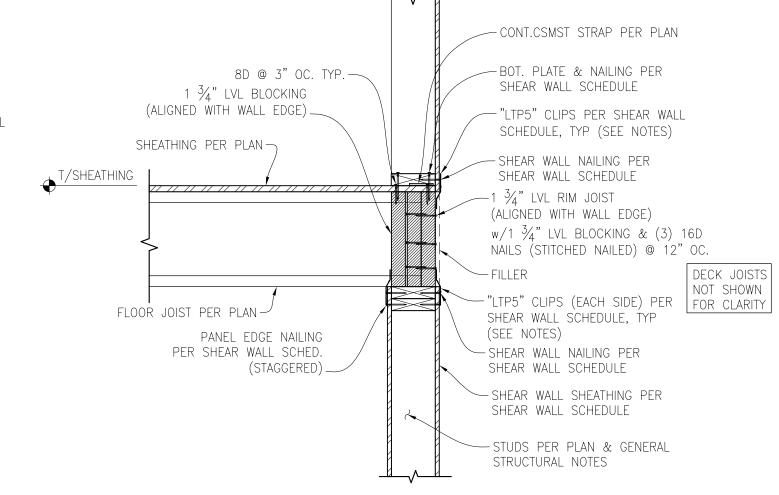










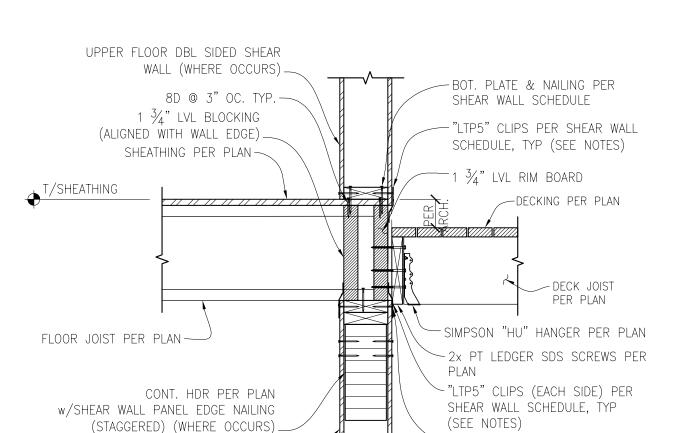


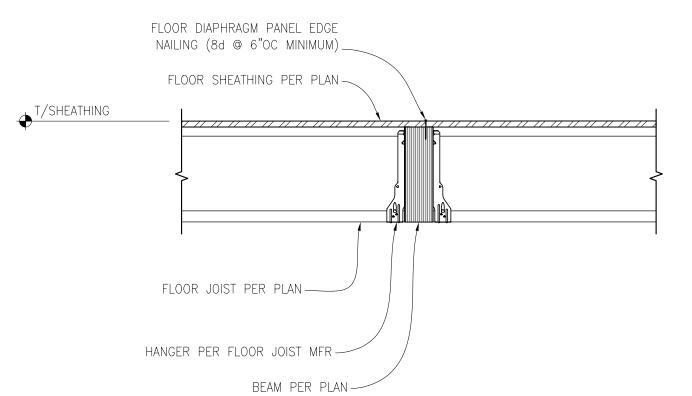
FL. JOIST PERP. TO DBL SIDED SHEAR WALL CON. SCALE: 1" = 1'-0"

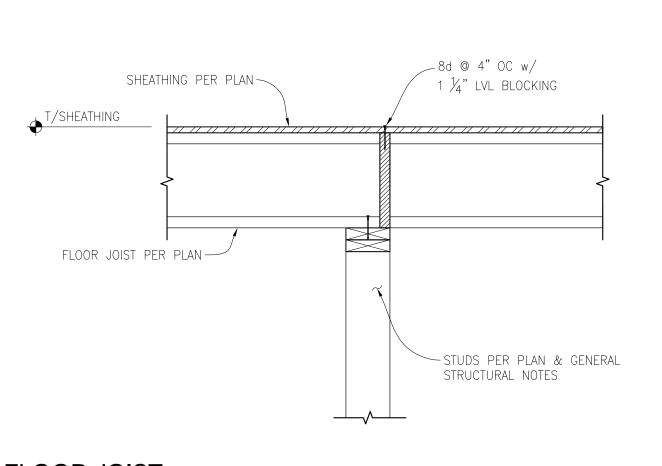
FLOOR JOIST PARALLEL TO EXTERIOR WALL CON. SCALE: 1" = 1'-0"

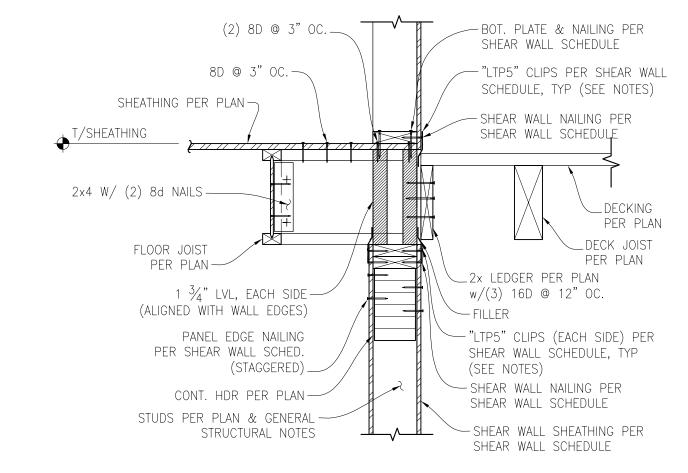
CONT. HEADER & FL. JOIST PERP. TO DBL SIDED SHEAR WALL CON. SCALE: 1'' = 1'-0''

CMST STRAP TO BLOCKING & FL. JOIST PERP. TO DBL SIDED SHEAR WALL CON. SCALE: 1" = 1'-0"









DBL SIDED SHEAR WALL/ RIM JOIST TO LEDGER CONNECTION

PER PLAN —

DBL SIDED SHEAR WALL

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

SHEAR WALL SHEATHING &

NAILING PER SHEAR WALL

STRUCTURAL NOTES

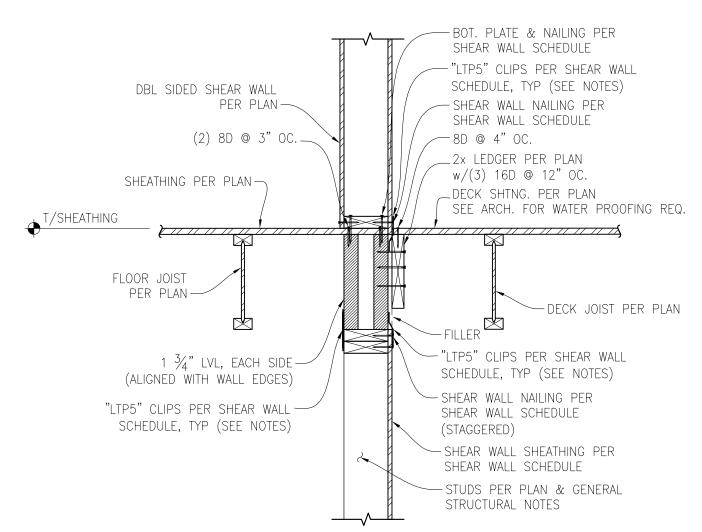
- STUDS PER PLAN & GENERAL

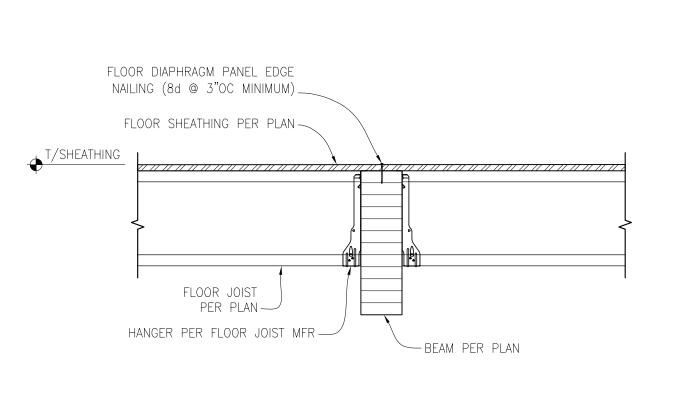
SCHEDULE

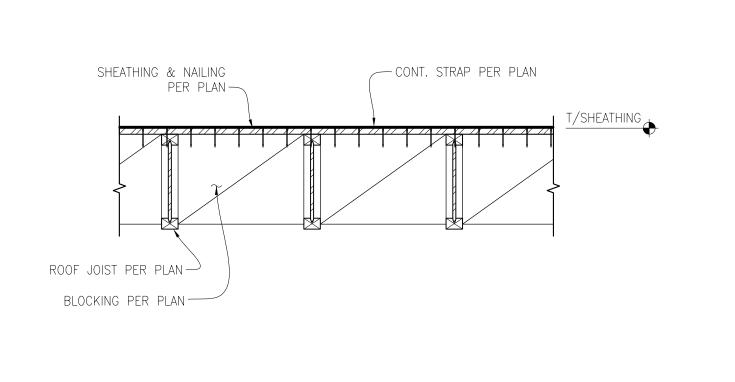


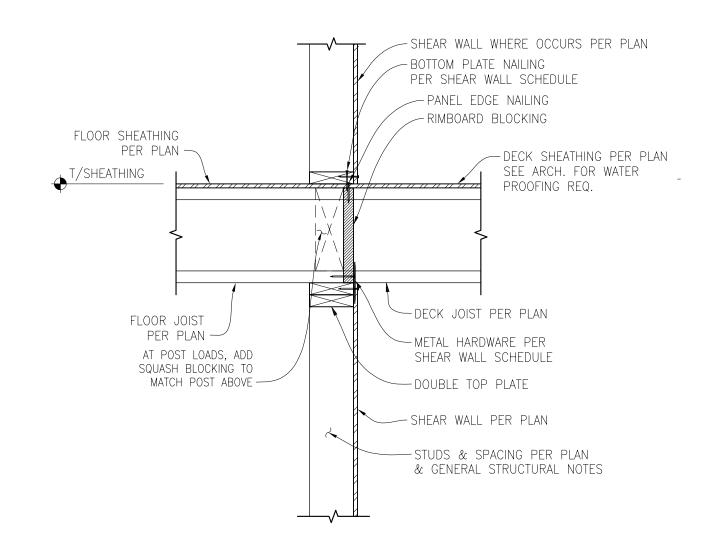
FLOOR JOIST PERP. AT INTERIOR BEARING WALL SCALE: 1" = 1'-0"











DBL SIDED SHEAR WALL CONNECTTION (DECK/FLOOR JOIST PARALLEL)

SCALE: 1'' = 1'-0''

FLOOR JOIST/TOP FLUSH BEAM CONNECTION SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"

11

INTERIOR BEARING/SHEAR WALL CON. SCALE: 1" = 1'-0"

12

8

FLOOR JOIST BLOCKING

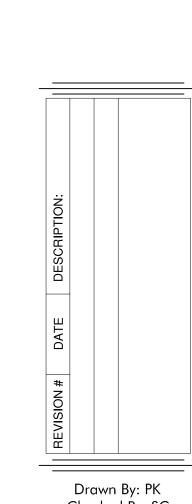
— А35 ТҮР.

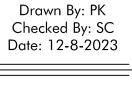






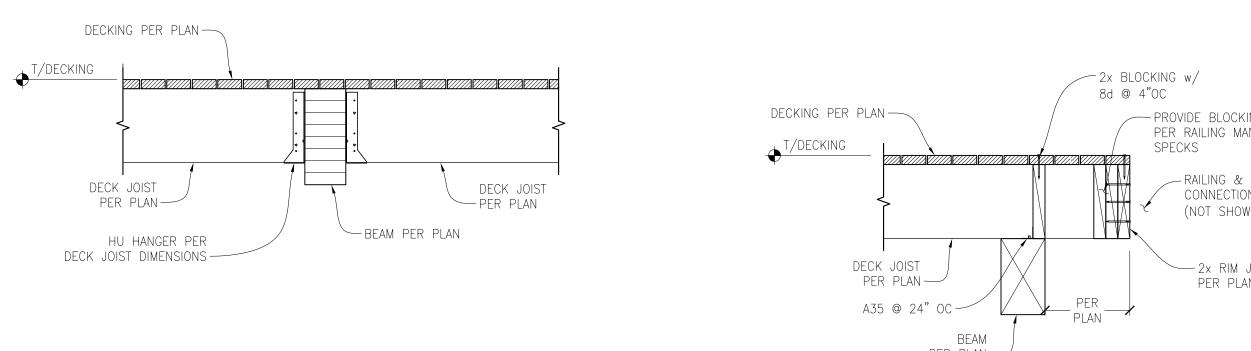


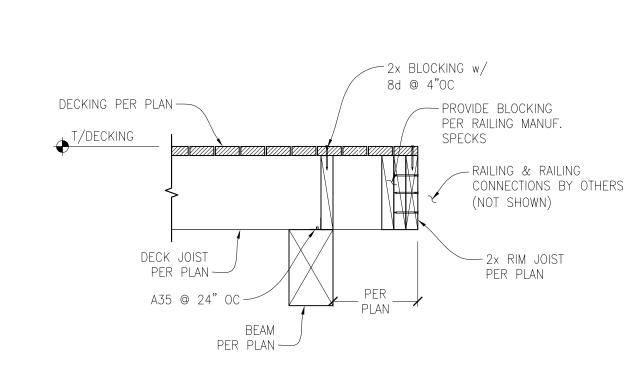


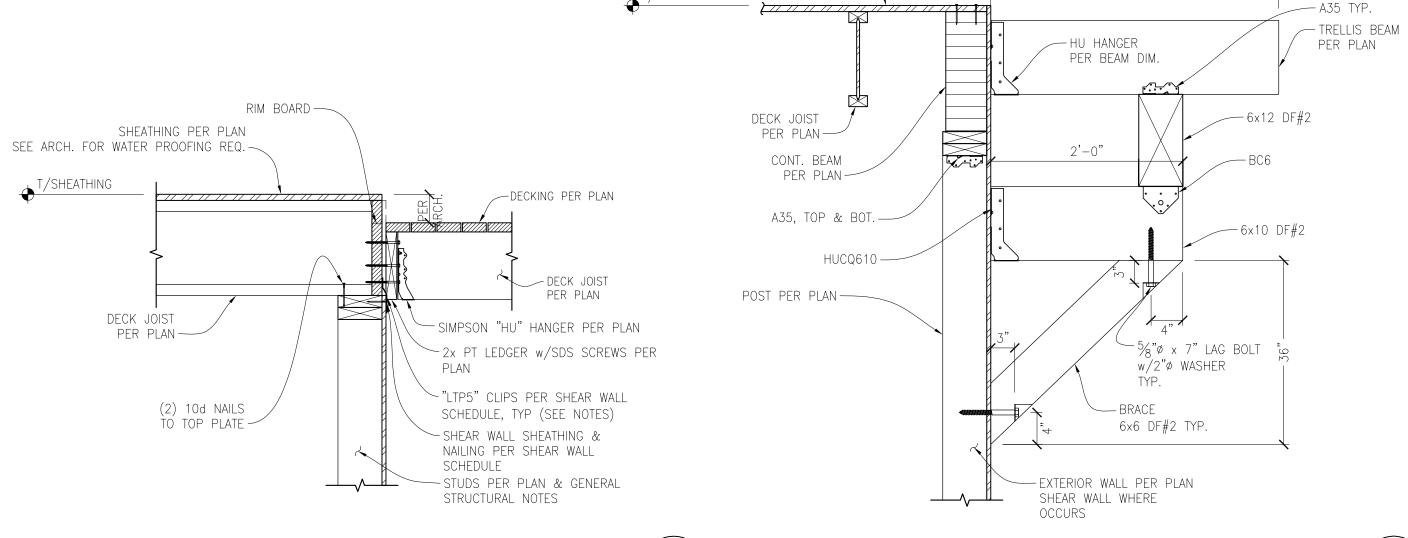


CK JOB NO. 23-043

STRUCTURAL **DETAILS**







SHEATHING PER PLAN —

-WALL FRAMING PER PLAN, SHEAR WALL

T/SHEATHING

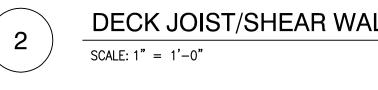
WHERE LOCATED (NOTE (2))

-BOTTOM PLATE

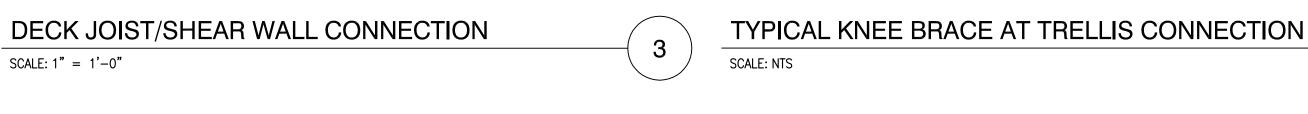
-SHEATHING PER PLAN

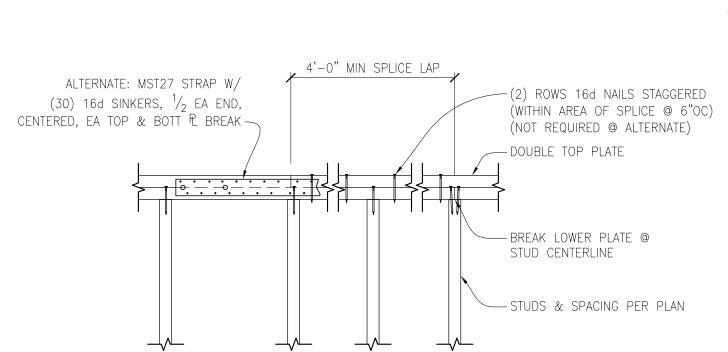


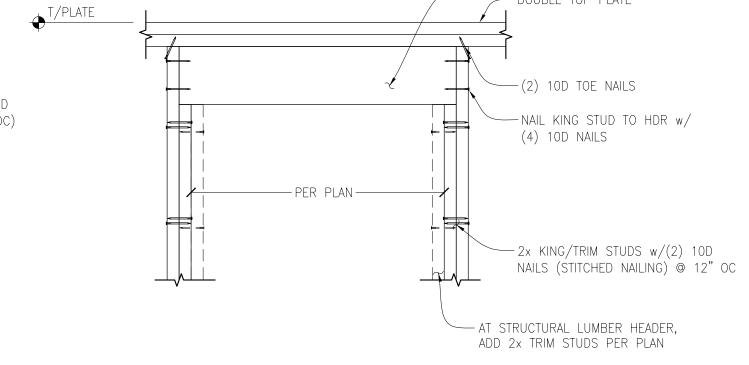
DECK JOIST TO DECK BEAM CONNECTION SCALE: 1" = 1'-0"



T/SHEATHING

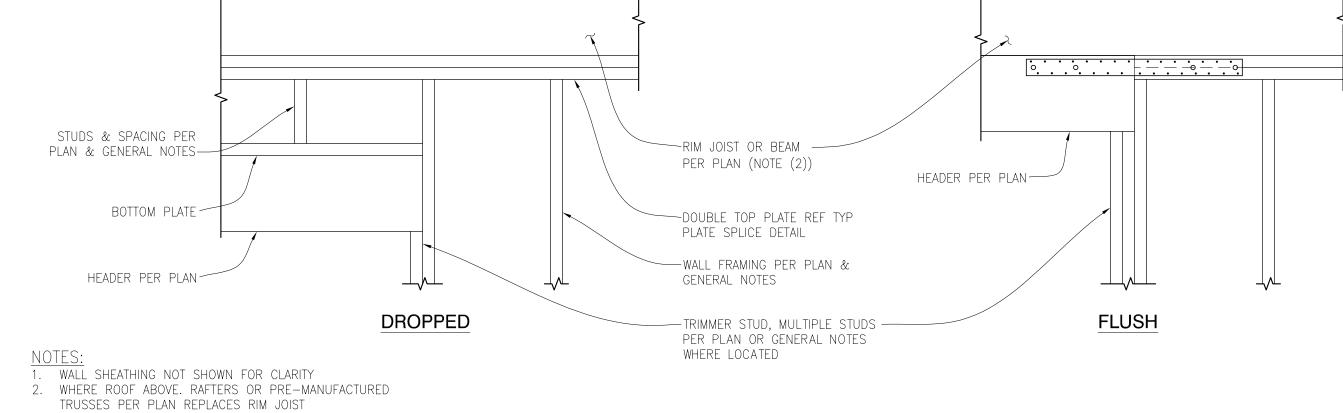






- HEADER PER PLAN

- DOUBLE TOP PLATE



NOTE: FLOOR JOISTS NOT SHOWN FOR CLARITY.

TYPICAL PLATE SPLICE DETAIL SCALE: N.T.S.

NOTE: FLOOR/ROOF FRAMING NOT SHOWN FOR CLARITY. TYPICAL HEADER CONNECTION

SCALE: N.T.S.

TYPICAL HEADER FRAMING

SCALE: 1" = 1'-0"

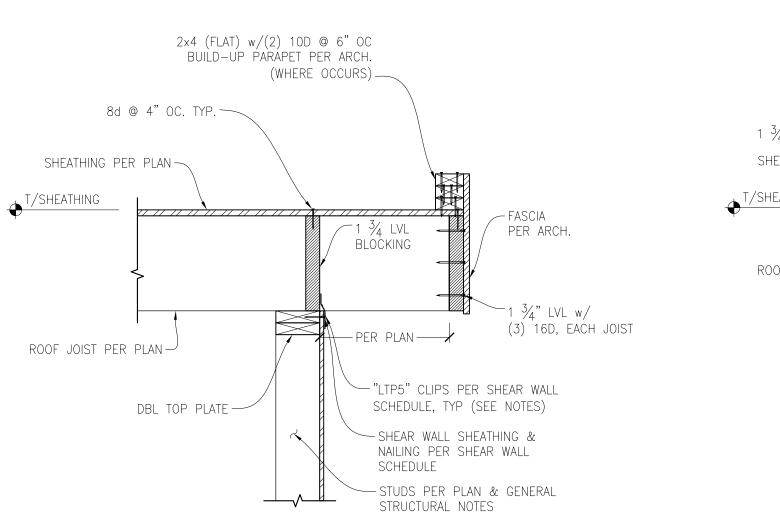
Checked By: SC Date: 12-8-2023 CK JOB NO.

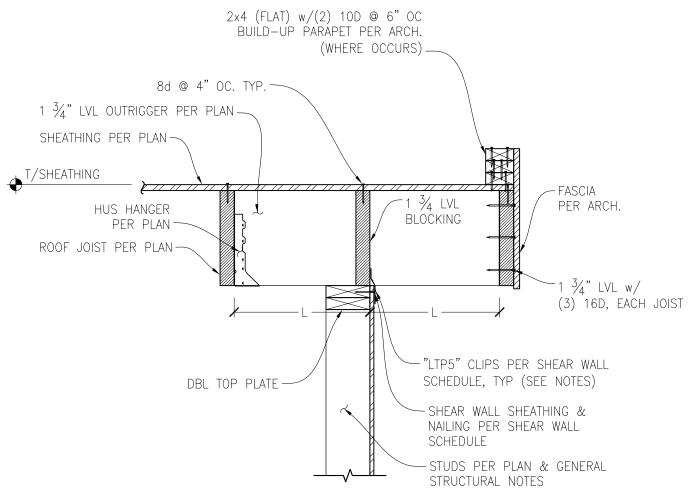
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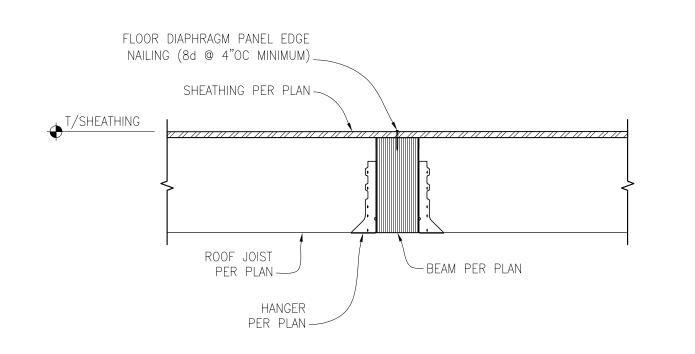
23-043

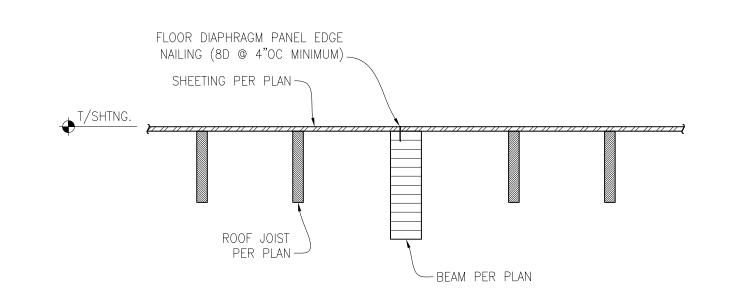
DETAILS S-4.0

STRUCTURAL











ROOF JOIST PARALLEL TO BEARING/SHEAR WALL SCALE: 1" = 1'-0"

ROOF JOIST/TOP FLUSH BEAM CONNECTION SCALE: 1" = 1'-0"

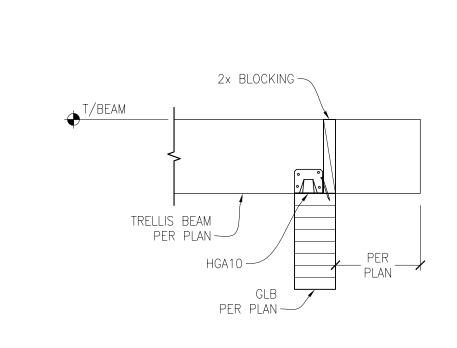
ROOF BEAM (TOP FLUSH) CONNECTION SCALE: $\frac{3}{4}$ " = 1'-0"

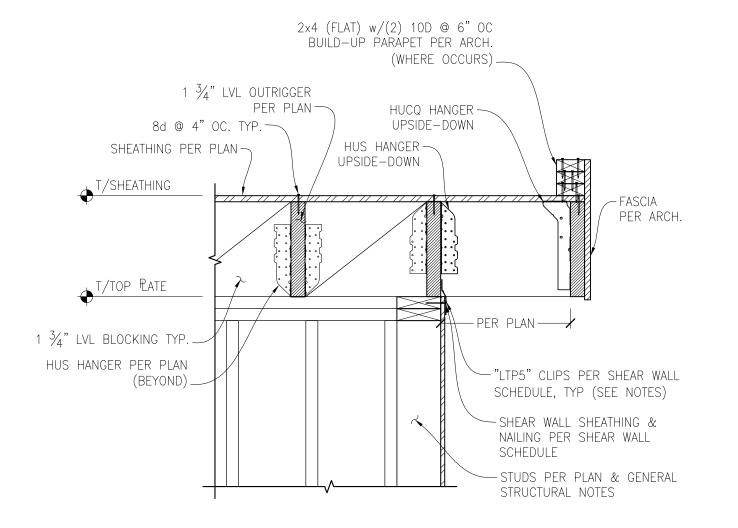
3

2x4 (FLAT) w/(2) 10D @ 6" OC BUILD-ÚP PARÁPET PER ARCH. (WHERE OCCURS) ___ DRAG STRUT (BEYOND) w/MST STRAP PER PLAN — (2) 8D @ 4" OC. TYP.— 1 $\frac{3}{4}$ " LVL OUTRIGGER PER PLAN $\overline{}$ SHEATHING PER PLAN — T/SHEATHING $-3\frac{1}{2}$ " PSL BLOCKING PER ARCH. HUS HANGER PER PLAN — ROOF JOIST PER PLAN $1 \frac{3}{4}$ " LVL w/ (3) 16D, EACH JOIST — "LTP5" CLIPS PER SHEAR WALL SCHEDULE, TYP (SEE NOTES) DBL TOP PLATE — — SHEAR WALL SHEATHING & NAILING PER SHEAR WALL

SCHEDULE

— STUDS PER PLAN & GENERAL STRUCTURAL NOTES





DRAG STRAT TO ROOF JOIST BLOCKING SHEAR WALL CONNECTION

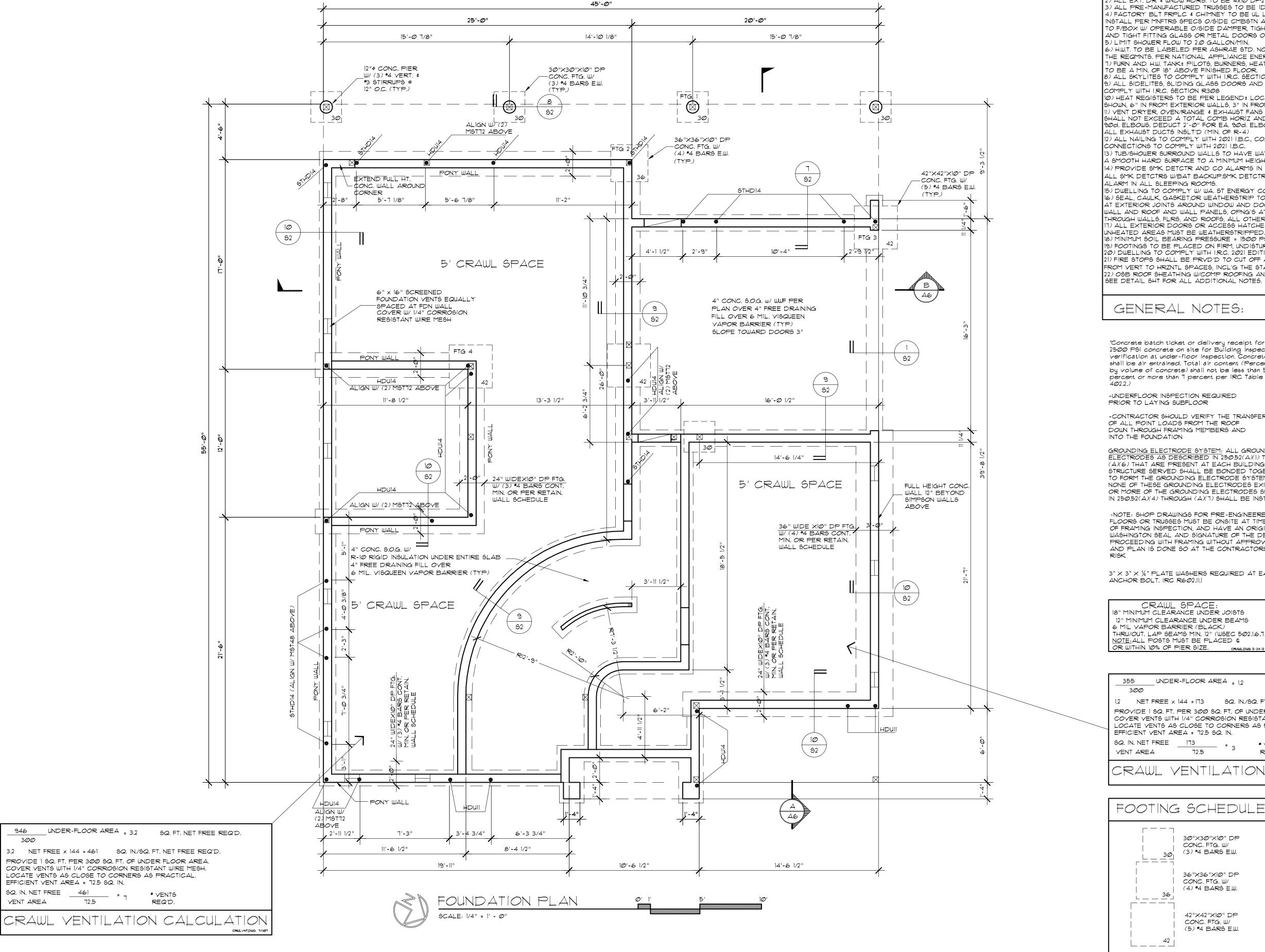
SCALE: 1" = 1'-0"

TRELLIS BEAM TO BEAM CONNECTION

SCALE: 1" = 1'-0"

ROOF JOIST CORNER CONNECTION

SCALE: 1" = 1'-0"



1) ALL FLR JSTS TO BE TJI FLOOR SYSTEM, REFER TO MFG. LAYOUT FOR ALL FRAMING DETAILS AND BLOCKING, REVIEW MFG. LAYOUT PRIOR TO FRAMING. OR ALL FLR JSTS AND RFTRS TO BE #2 HEM-FIR. DOUBLE UNDER BEARING PARTITIONS. PROVIDE SOLID BLOCKING OVER BEARING MEMBERS. 2) ALL EXT. DR & WNDW HDRS. TO BE 4×10/ DF#2 (UNO) 3) ALL PRE-MANUFACTURED TRUSSES TO BE IDENTIFIED BY MFG'S STAMP. 4) FACTORY BLT FRPLC & CHIMNEY TO BE UL LABELED INSTALL PER MNFTRS SPECS O/SIDE CMBSTN AIR REQ'D (MIN 6 SQ IN) DUCTED TO F/BOX W/ OPERABLE O/SIDE DAMPER, TIGHTLY FITT'G FLUE DAMPER, AND TIGHT FITTING GLASS OR METAL DOORS OR FLUE DRAFT INDUCTION FAN. 5) LIMIT SHOWER FLOW TO 2.0 GALLON/MIN. 6) H.W.T. TO BE LABELED PER ASHRAE STD. NO. 900A-80, AND MEET THE REQMNTS, PER NATIONAL APPLIANCE ENERGY CONSERVATION ACT. 1) FURN AND H.W. TANK± PILOTS, BURNERS, HEATING ELEMENTS, AND SWITCHES TO BE A MIN. OF 18" ABOVE FINISHED FLOOR. 8) ALL SKYLITES TO COMPLY WITH I.R.C. SECTION R308.6 9) ALL SIDELITES, SLIDING GLASS DOORS AND TUB/SHOWER ENCLOSURES TO COMPLY WITH I.R.C. SECTION R308 10) HEAT REGISTERS TO BE PER LEGEND ! LOCATE APPROXIMATELY AS SHOWN, 6" IN FROM EXTERIOR WALLS, 3" IN FROM INTERIOR WALLS. II) VENT DRYER, OVEN/RANGE 4 EXHAUST FANS TO O/SIDE. DRYER EXH DUCTS SHALL NOT EXCEED A TOTAL COMB HORIZ AND VERT LNGTH OF 14'-0", INCL 2 90d. ELBOWS. DEDUCT 2'-0" FOR EA. 90d. ELBOW EXCEDING 2. ALL EXHAUST DUCTS INSLT'D (MIN. OF R-4) 2) ALL NAILING TO COMPLY WITH 2021 I.B.C., COLUMN, POST & BEAM CONNECTIONS TO COMPLY WITH 2021 I.B.C. 3) TUB/SHOWER SURROUND WALLS TO HAVE WATER RSTNT GYP BRD AND A SMOOTH HARD SURFACE TO A MINIMUM HEIGHT OF 70" ABOYE DRAIN INLET 4) PROVIDE SMK DETCTR AND CO ALARMS IN COMPLIANCE WITH I.R.C. R314 ALL SMK DETCTRS W/BAT BACKUP.SMK DETCTRS WILL SOUND AN AUDIBLE ALARM IN ALL SLEEPING ROOMS. 15) DWELLING TO COMPLY W/ WA. ST ENERGY CODE, 2018 EDITION 16) SEAL, CAULK, GASKET,OR WEATHERSTRIP TO LIMIT AIR LEAKAGE: AT EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, OPNG'S BTWN WALL AND ROOF AND WALL PANELS, OPNG'S AT UTILITY PENETRATIONS THROUGH WALLS, FLRS, AND ROOFS, ALL OTHER OPNG'S IN BLD'G ENVELOPE. 1) ALL EXTERIOR DOORS OR ACCESS HATCHES TO ENCLOSED UNHEATED AREAS MUST BE WEATHERSTRIPPED. 18) MINIMUM SOIL BEARING PRESSURE = 1500 PSF. 19) FOOTINGS TO BE PLACED ON FIRM, UNDISTURBED NATIVE SOIL. 20) DWELLING TO COMPLY WITH I.R.C. 2021 EDITION 21) FIRE STOPS SHALL BE PRVD'D TO CUT OFF ALL CONCL'D DRAFT OPN'GS FROM VERT TO HRZNTL SPACES, INCL'G THE STAIR, TUB, SHWR, FRPLACE, ETC. 22) OSB ROOF SHEATHING W/COMP ROOFING AND PLYWD AT ALL OVERHANGS.

GENERAL NOTES:

FDNNOTE.DWG 7/1/23

"Concrete batch ticket or delivery receipt for 2500 PSI concrete on site for Building Inspector verification at under-floor inspection. Concrete shall be air entrained. Total air content (Percent by volume of concrete) shall not be less than 5 percent or more than I percent per IRC Table

-UNDERFLOOR INSPECTION REQUIRED PRIOR TO LAYING SUBFLOOR

-CONTRACTOR SHOULD VERIFY THE TRANSFER OF ALL POINT LOADS FROM THE ROOF DOWN THROUGH FRAMING MEMBERS AND INTO THE FOUNDATION

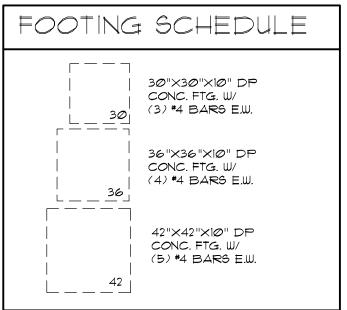
GROUNDING ELECTRODE SYSTEM: ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52(A)(1) THROUGH (AX6) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH (A)(1) SHALL BE INSTALLED AND USED

-NOTE: SHOP DRAWINGS FOR PRE-ENGINEERED FLOORS OR TRUSSES MUST BE ONSITE AT TIME OF FRAMING INSPECTION, AND HAVE AN ORIGINAL WASHINGTON SEAL AND SIGNATURE OF THE DESIGNER. PROCEEDING WITH FRAMING WITHOUT APPROVED DETAILS AND PLAN IS DONE SO AT THE CONTRACTORS/APPLICANTS

3" × 3" × 1/4" PLATE WASHERS REQUIRED AT EACH ANCHOR BOLT, IRC R602.11.1

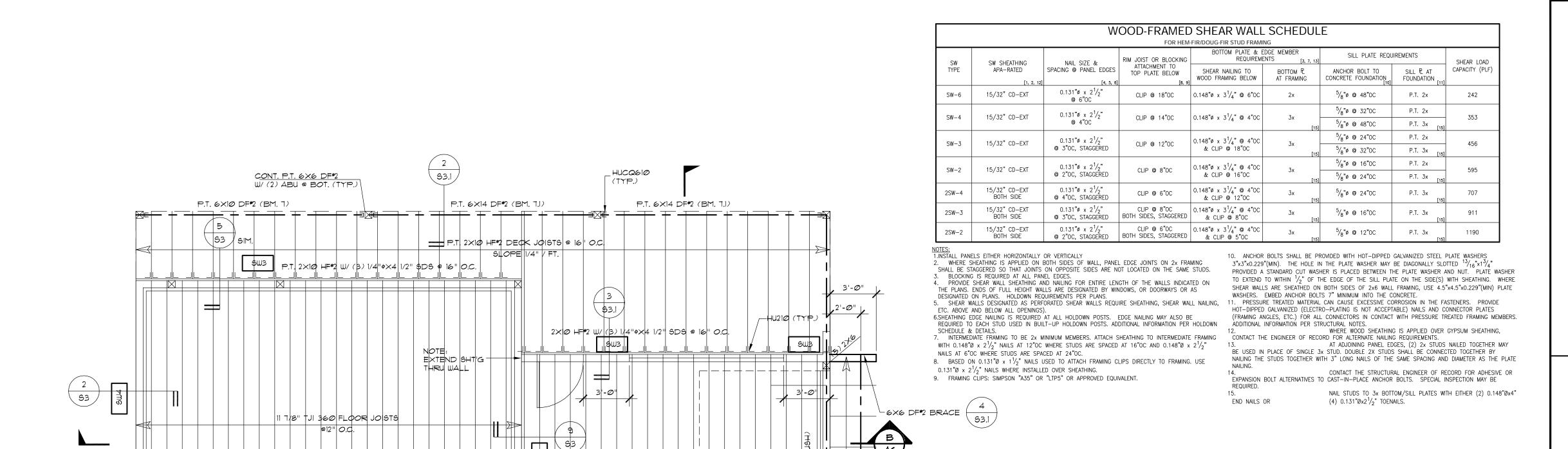
CRAWL SPACE: 18" MINIMUM CLEARANCE UNDER JOISTS 12" MINIMUM CLEARANCE UNDER BEAMS 6 MIL VAPOR BARRIER (BLACK) THRU/OUT. LAP SEAMS MIN. 12" (WSEC 502.1.6.7. NOTE: ALL POSTS MUST BE PLACED \$ OR WITHIN 10% OF PIER SIZE. CRAWLDWG 12-24-12

355 UNDER-FLOOR AREA = 1.2 SQ. FT. NET FREE REQ'D. 1.2 NET FREE \times 144 = 173 SQ. IN./SQ. FT. NET FREE REQ'D. PROVIDE 1 SQ. FT. PER 300 SQ. FT. OF UNDER FLOOR AREA. COVER VENTS WITH 1/4" CORROSION RESISTANT WIRE MESH. LOCATE VENTS AS CLOSE TO CORNERS AS PRACTICAL. EFFICIENT VENT AREA = 72.5 SQ. IN. 6Q. IN. NET FREE 173 * VENTS REQ'D. VENT AREA 12.5 CRAWL VENTILATION CALCULATION



JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:

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\ |**S**3|/

-HUCQ4|12

3 1/2×11 7/8 PSL

3 1/2×11 7/8 PBL

-HUCQ4|12

=

S2 /

A A6

MST72 (BM. TO

`-6×6 DF#2 BRACE (-

_ WALL 12" BEYOND SIMPSON WALLS

ABOVE

TOP PLATE

|| †/8 †J| 360| @ |2" O.C.

11|7/8|7J1|36Ø FL|00R J\$T5.| @12 O.C.

10

| PSU 2.0E

5 1/2×18 GLB 24F-V4 (BM. 13)

5 1/4×11 7/8 PSL 2 ØE (BM. 14)

MAIN FLOOR FRAMING PLAN

SCALE: 1/4" = 1' - Ø"

2SW2

\ 53 /

2SW2

\ **5**3

HU48 _

(TYP.)

1 7/8 TUI 360 FLOOR USTS. @12" O.C.

2×8 HF#2 LEDGER W/ (3) |/4"¢×4 |/2"

SDS SCREWS

a 16" O.C.

FULL HEIGHT CONC. **BROADCAST COAT** 2ND BASE COAT BASE COAT PRIMER COAT (OPTIONAL) PERMA-GLAS MESH PLYWOOD SUBSTRATE

FLOOR FRAMING NOTES:

I. ALL BEAMS AND HEADERS TO BE 4x8 DF#2 UNLESS NOTED OTHERWISE.

WATERPROOF DECK DETAIL

- 2. PROVIDE SOLID PRESSURE BLOCKING AT ALL POINT LOADS FROM ABOVE.
- 3. PROVIDE SOLID BLOCKING OR BRIDGING AT MID-SPAN OF ALL FLOOR JOISTS WITH SPANS OVER 10'-0" OR PER JOIST SPECIFICATIONS PER JOIST MANUFACTURER.
- 4. PROVIDE BLOCKING OR OTHER APPROVED MEANS OF LATERAL SUPPORT AT ALL JOIST BEARING LOCATIONS.
- 5. XXX DENOTES SHEARWALL CALLOUT PER SHEARWALL TABLE.
- 6. ALL HEADERS TO HAVE (1) 2x BEARING STUD AND (1) 2x KING STUD AT EACH END UNLESS NOTED OTHERWISE.

Joists shall be laterally supported at the ends by full-depth solid blocking not less than 2 inches nominal in thickness± or by attachment to a full-depth header, band or rim joist, or to an adjoining stud to provide lateral support to prevent rotation. Additionally, in Seismic Design Categories DØ, DI, and D2, lateral restraint shall be provided at each intermediate support. See IRC Sections 106.1.1 and 502.7.

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JOB NO: 23006

DRWN. BY: TH

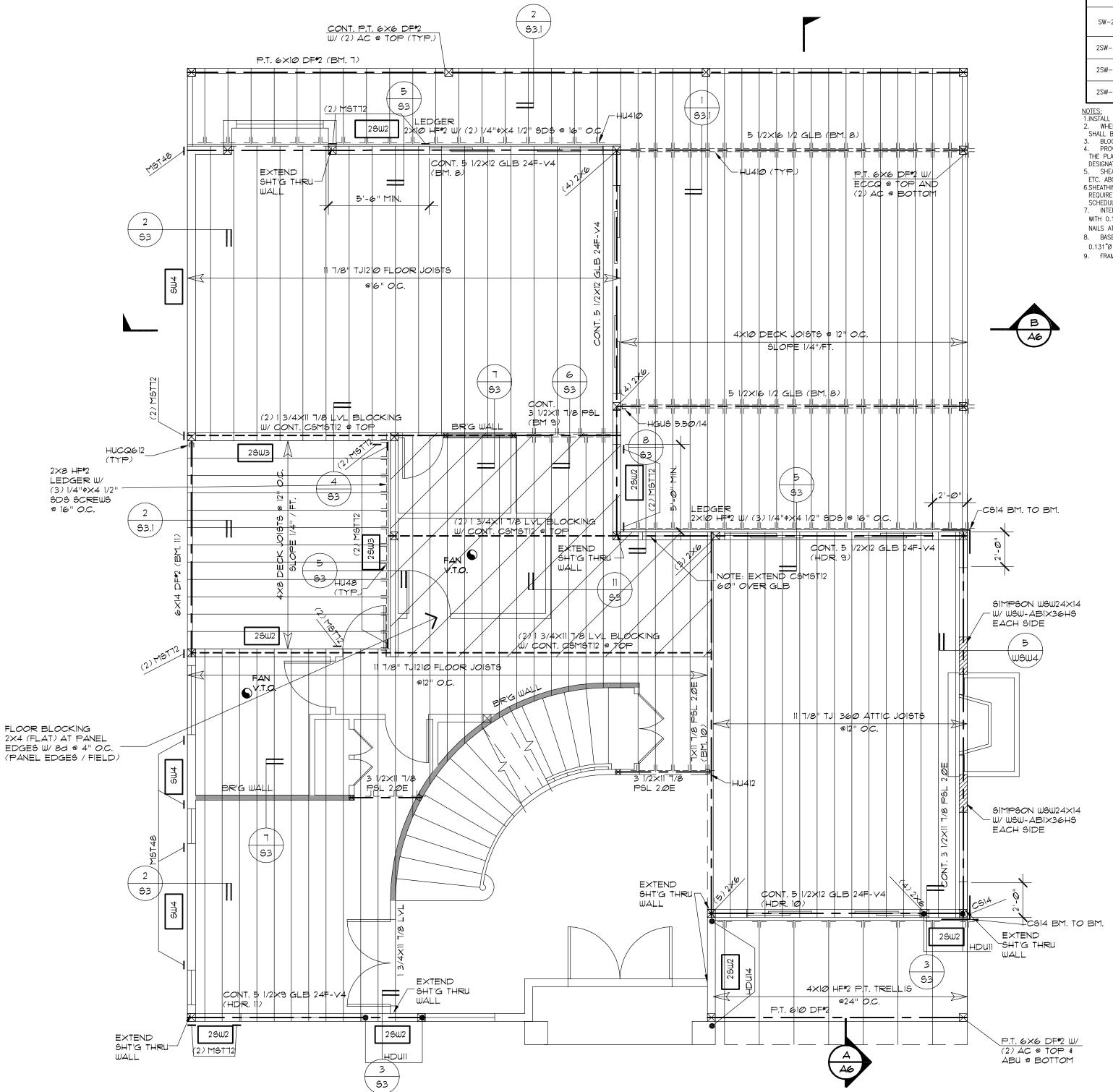
12/11/23

SHEET NO.

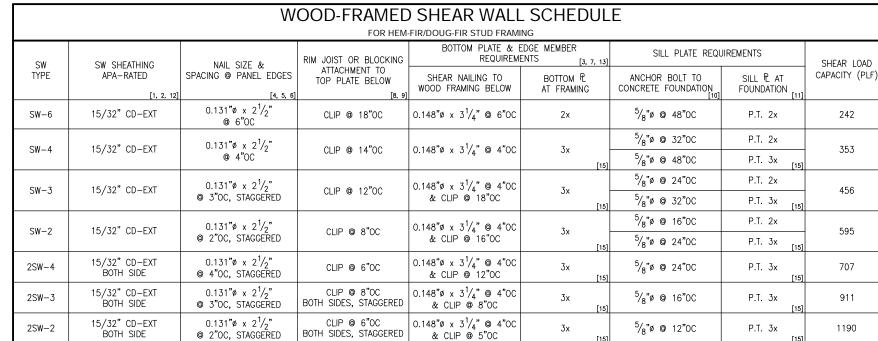
DATE:

REVISED:









NOTES:

1.INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY

2. WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUDS.

3. BLOCKING IS REQUIRED AT ALL PANEL EDGES.

4. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY WINDOWS, OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLDOWN REQUIREMENTS PER PLANS.

5. SHEAR WALLS DESIGNATED AS PEPEPAPATED SHEAR WALLS PEOLITIPE SHEATHING. SHEAR WALL NAILING. SHEAR WALLS DESIGNATED AS PERFORATED SHEAR WALLS REQUIRE SHEATHING, SHEAR WALL NAILING, ETC. ABOVE AND BELOW ALL OPENINGS). 6.SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLDOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLDOWN POSTS. ADDITIONAL INFORMATION PER HOLDOWN

SCHEDULE & DETAILS. 7. INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS. ATTACH SHEATHING TO INTERMEDIATE FRAMING WITH 0.148 $^{\circ}$ 0 x $2^{1}/2^{\circ}$ NAILS AT 12 $^{\circ}$ 0C WHERE STUDS ARE SPACED AT 16 $^{\circ}$ 0C AND 0.148 $^{\circ}$ 0 x $2^{1}/2^{\circ}$ NAILS AT 6"OC WHERE STUDS ARE SPACED AT 24"OC.

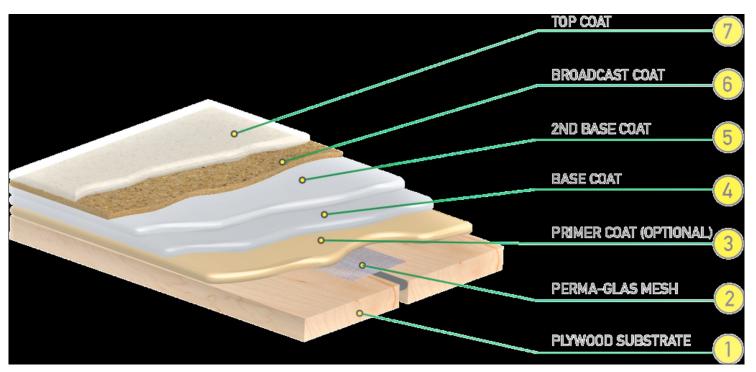
8. BASED ON 0.131"Ø x $1\frac{1}{2}$ " NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131"Ø x $2^{1}/_{2}$ " NAILS WHERE INSTALLED OVER SHEATHING. 9. FRAMING CLIPS: SIMPSON "A35" OR "LTP5" OR APPROVED EQUIVALENT.

10. ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS 3"x3"x0.229"(MiN). THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED $^{13}/_{16}"x13/_4"$ PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT. PLATE WASHER TO EXTEND TO WITHIN $\frac{1}{2}$ " OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) WITH SHEATHING. WHERE SHEAR WALLS ARE SHEATHED ON BOTH SIDES OF 2x6 WALL FRAMING, USE 4.5"x4.5"x0.229"(MIN) PLATE WASHERS. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE.

11. PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES (FRAMING ANGLES, ETC.) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS. ADDITIONAL INFORMATION PER STRUCTURAL NOTES.

12. WHERE WOOD SHEATHING IS APPLIED OVER GYPSUM SHEATHING, CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS. 13. AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY
BE USED IN PLACE OF SINGLE 3x STUD. DOUBLE 2X STUDS SHALL BE CONNECTED TOGETHER BY

NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING. 4. CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVES TO CAST—IN—PLACE ANCHOR BOLTS. SPECIAL INSPECTION MAY BE NAIL STUDS TO 3x BOTTOM/SILL PLATES WITH EITHER (2) 0.148"Øx4" END NAILS OR (4) 0.131°



WATERPROOF DECK DETAIL

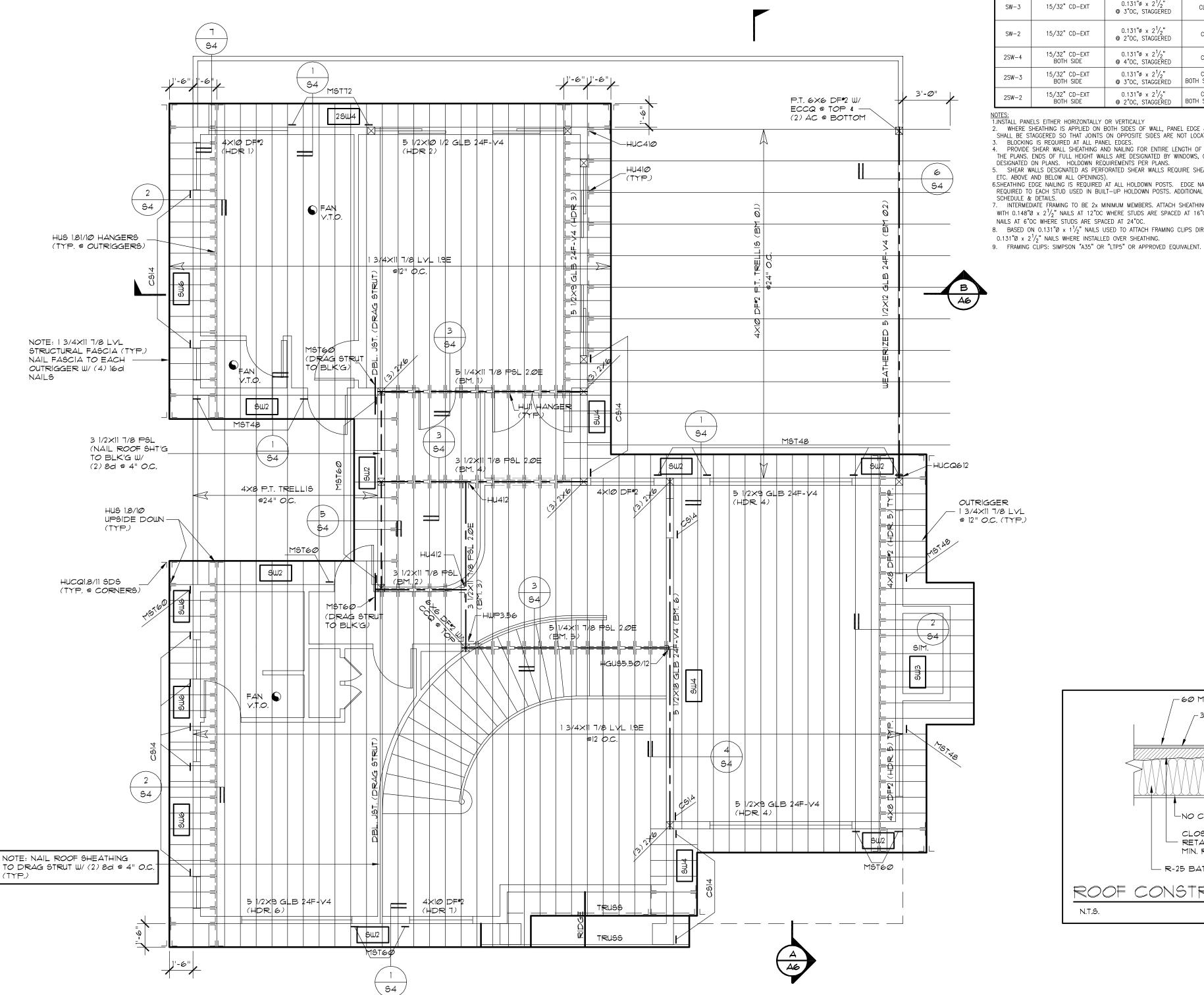
FLOOR FRAMING NOTES:

- I. ALL BEAMS AND HEADERS TO BE 4x8 DF#2 UNLESS NOTED OTHERWISE.
- 2. PROVIDE SOLID PRESSURE BLOCKING AT ALL POINT LOADS FROM ABOVE.
- 3. PROVIDE SOLID BLOCKING OR BRIDGING AT MID-SPAN OF ALL FLOOR JOISTS WITH SPANS OVER 10'-0" OR PER JOIST SPECIFICATIONS PER JOIST MANUFACTURER.
- 4. PROVIDE BLOCKING OR OTHER APPROVED MEANS OF LATERAL SUPPORT AT ALL JOIST BEARING LOCATIONS.
- 5. XXX DENOTES SHEARWALL CALLOUT PER SHEARWALL TABLE.
- 6. ALL HEADERS TO HAVE (1) 2x BEARING STUD AND (1) 2x KING STUD AT EACH END UNLESS NOTED OTHERWISE.
- 1. EXPOSED WOOD TO BE PROTECTED AGAINST DECAY. PRESERVATIVE TREATED WOOD TO BE USED PER IRC R317.

Joists shall be laterally supported at the ends by full-depth solid blocking not less than 2 inches nominal in thickness± or by attachment to a full-depth header, band or rim joist, or to an adjoining stud to provide lateral support to prevent rotation. Additionally, in Seismic Design Categories DØ, DI, and D2, lateral restraint shall be provided at each intermediate support. See IRC Sections 106.1.1 and 502.7.

JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:





NOTE: 1/4"/FT ROOF SLOPE, DRAINS AND SCUPPERS

HDR: 4×8 DF#2 TYP. (U.N.O.)

POST: (2) 2×6 HF#2 TYP. (U.N.O.)

SCALE: 1/4" = 1' - Ø"

TO BE DETERMINED ON SITE.

ROOF FRAMING PLAN

		W	OOD-FRAMED	SHEAR WALL	SCHEDUL	.E		
			FOR HEM	-FIR/DOUG-FIR STUD FRAMI	NG			
SW	SW SHEATHING	NAIL SIZE &	RIM JOIST OR BLOCKING	BOTTOM PLATE & E REQUIREME		SILL PLATE REQU	IIREMENTS	SHEAR LOAD
TYPE	APA-RATED [1, 2, 12]	SPACING @ PANEL EDGES	ATTACHMENT TO TOP PLATE BELOW [8, 9]	SHEAR NAILING TO WOOD FRAMING BELOW	BOTTOM PL AT FRAMING	ANCHOR BOLT TO CONCRETE FOUNDATION [10]	SILL PL AT FOUNDATION [11]	CAPACITY (PLF)
SW-6	15/32" CD-EXT	0.131"ø × 2 ¹ / ₂ " @ 6"0C	CLIP @ 18"OC	0.148"ø x 3 ¹ / ₄ " @ 6"0C	2x	⁵ / ₈ "ø @ 48"OC	P.T. 2x	242
SW-4	15 /70" OD EVT	0.131 ° × $2^{1}/_{2}$ °	0110 0 44"00	0.148"ø x 3 ¹ / ₄ " @ 4"0C	3x	⁵ / ₈ "ø ⊚ 32"OC	P.T. 2x	353
5W-4	15/32" CD-EXT	@ 4"OC	CLIP @ 14"0C	0.148 Ø X 3 7 ₄ Ø 4 0C	3X [15]	⁵ / ₈ "ø @ 48"OC	P.T. 3x [15]	333
CW 7	15 /70" CD EVT	0.131 ° × $2^{1}/_{2}$ °	0115 0 40700	0.148"ø x 3 ¹ / ₄ " @ 4"0C	7	⁵ / ₈ "ø @ 24"OC	P.T. 2x	AFC
SW-3	15/32" CD-EXT	@ 3"OC, STAGGERED	CLIP @ 12"0C	0.148"ø x 3 ¹ / ₄ " @ 4"0C & CLIP @ 18"0C	3x [15]	⁵ / ₈ "ø @ 32"0C	P.T. 3x [15]	456
SW-2	15/32" CD-EXT	0.131 ° × $2^{1}/_{2}$ °	0110 6 0,400	0.148 "ø x $3\frac{1}{4}$ " @ 4"OC	3x	⁵ / ₈ "ø @ 16"OC	P.T. 2x	595
SW-2	15/32 CD-EXI	@ 2"OC, STAGGERED	CLIP @ 8"OC	& CLIP @ 16"0C)X [15]	⁵ / ₈ "ø @ 24"OC	P.T. 3x [15]	293
2SW-4	15/32" CD-EXT BOTH SIDE	0.131"ø x 2 ¹ / ₂ " @ 4"OC, STAGGERED	CLIP @ 6"OC	0.148 "ø x $3\frac{1}{4}$ " @ 4"OC & CLIP @ 12"OC	3x	⁵ / ₈ "ø @ 24"OC	P.T. 3x	707
2SW-3	15/32" CD-EXT BOTH SIDE	0.131" $\phi \times 2^{1}/2$ " @ 3"OC, STAGGERED	CLIP @ 8"OC BOTH SIDES, STAGGERED	0.148"ø x 3 ¹ / ₄ " @ 4"0C & CLIP @ 8"0C	3x	⁵ / ₈ "ø @ 16"OC	P.T. 3x	911
2SW-2	15/32" CD-EXT BOTH SIDE	0.131"ø x $2^{1}/_{2}$ " @ 2"OC, STAGGERED	CLIP @ 6"OC BOTH SIDES, STAGGERED	0.148"ø x 3 ¹ / ₄ " @ 4"0C & CLIP @ 5"0C	3x	⁵ / ₈ "ø ⊚ 12"OC	P.T. 3x	1190

NOTES:

1.INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY

2. WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUDS.

3. BLOCKING IS REQUIRED AT ALL PANEL EDGES.

4. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR ENTIRE LENGTH OF THE WALLS INDICATED ON THE SAME STUDS OF EACH WALLS ARE DESIGNATED BY WINDOWS. OR DOORWAYS OR AS THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY WINDOWS, OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLDOWN REQUIREMENTS PER PLANS.

5. SHEAR WALLS DESIGNATED AS PERFORATED SHEAR WALLS REQUIRE SHEATHING, SHEAR WALL NAILING,

ETC. ABOVE AND BELOW ALL OPENINGS).

6.SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLDOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT—UP HOLDOWN POSTS. ADDITIONAL INFORMATION PER HOLDOWN SCHEDULE & DETAILS.

7. INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS. ATTACH SHEATHING TO INTERMEDIATE FRAMING WITH 0.148"Ø x $2^{1}/_{2}$ " NAILS AT 12"OC WHERE STUDS ARE SPACED AT 16"OC AND 0.148"Ø x $2^{1}/_{2}$ " NAILS AT 6"OC WHERE STUDS ARE SPACED AT 24"OC. 8. BASED ON 0.131"Ø x $1\frac{1}{2}$ " NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131"Ø x $2\frac{1}{2}$ " NAILS WHERE INSTALLED OVER SHEATHING.

10. ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS 3"x3"x0.229"(MiN). THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED $^{13}/_{16}"x1^{3}/_{4}"$ PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT. PLATE WASHER TO EXTEND TO WITHIN $\frac{1}{2}$ " OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) WITH SHEATHING. WHERE SHEAR WALLS ARE SHEATHED ON BOTH SIDES OF 2x6 WALL FRAMING, USE 4.5"x4.5"x0.229"(MIN) PLATE WASHERS. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE. . PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES (FRAMING ANGLES, ETC.) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS. ADDITIONAL INFORMATION PER STRUCTURAL NOTES.

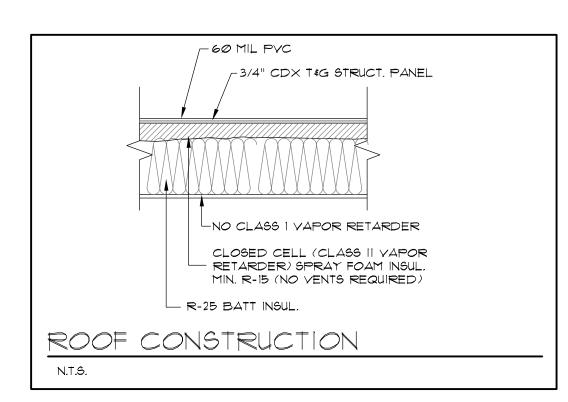
ADDITIONAL INFORMATION PER STRUCTURAL NOTES.

12. WHERE WOOD SHEATHING IS APPLIED OVER GYPSUM SHEATHING, CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS.

13. AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF SINGLE 3x STUD. DOUBLE 2X STUDS SHALL BE CONNECTED TOGETHER BY NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE ANALING.

CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVES TO CAST—IN—PLACE ANCHOR BOLTS. SPECIAL INSPECTION MAY BE

REQUIRED. NAIL STUDS TO 3x BOTTOM/SILL PLATES WITH EITHER (2) 0.148"Øx4" (4) 0.131 %x2 $\frac{1}{2}$ TOENAILS. END NAILS OR



ROOF FRAMING NOTES:

AND BEAMS.

1. ALL BEAMS AND HEADERS TO BE 4x8 DF#2 UNLESS NOTED OTHERWISE.

2. NO TRUSS SHALL BE FIELD MODIFIED WITHOUT PRIOR CONSENT OF THE TRUSS ENGINEER AND THE BUILDING DEPARTMENT.

3. ROOF SHEATHING TO BE 1/2" APA RATED SHEATHING WITH 100 NAILS AT PERIMETER AND ALL SUPPORTED PANEL EDGES AT 6" ON CENTER AND AT 12" ON CENTER AT FIELD.

4. XXX DENOTES SHEARWALL CALLOUT PER SHEARWALL TABLE.

5. \boxtimes DENOTES SOLID 2x STUD BEARING BELOW END OF HEADER OR GIRDER.

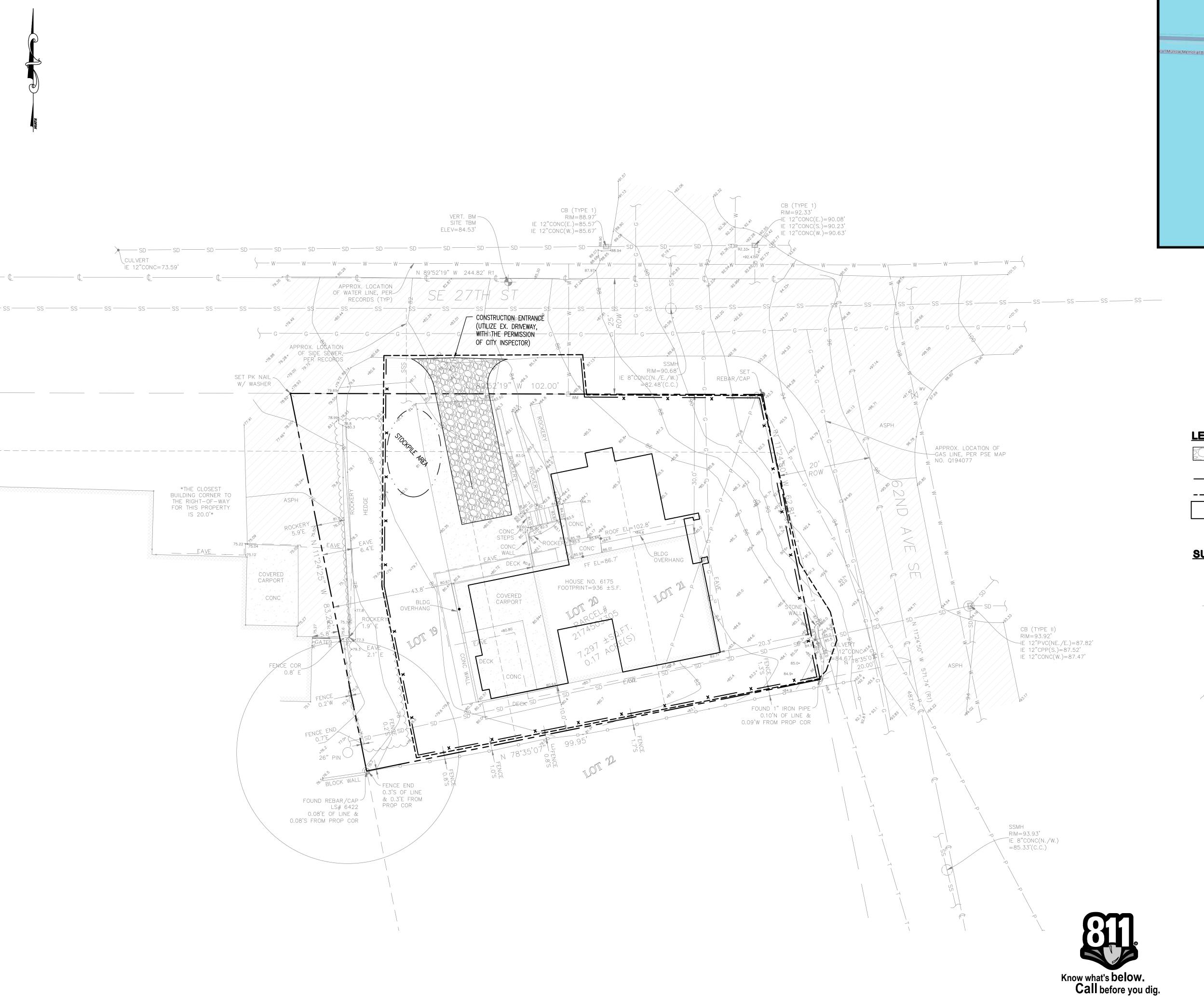
6. ALL HEADERS TO HAVE (1) 2x BEARING STUD AND (1) 2x KING STUD AT EACH END UNLESS NOTED OTHERWISE.

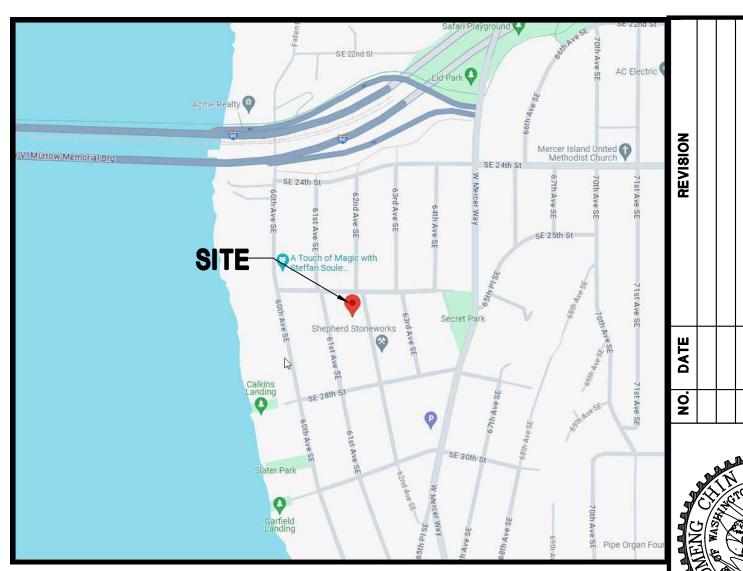
1. PROVIDE SOLID BEARING STUDS AT ALL BEARING LOCATIONS INCLUDING GIRDER TRUSSES

JOB NO: 23006 DATE: 12/11/23 DRWN. BY: TH REVISED:

 $\vdash \overline{o}$









LEGEND:

SURVEY LEGEND:



LEGAL DESCRIPTION

(PER STATUTORY WARRANTY DEED RECORDING# 20070529002539)

LOTS 19, 20 AND 21, BLOCK 19, EAST SEATTLE ADDITION TO THE CITY OF SEATTLE, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 3 OF PLATS, PAGE 22 AND 23, IN KING COUNTY, WASHINGTON; TOGETHER WITH PORTION OF VACATED CABLE AVENUE "SOUTHEAST 27TH STREET" ADJOINING ON THE NORTH.

BENCHMARK AND DATUM PER SURVEY

ACCEPTED A BEARING OF N 78'35'37" E BETWEEN
MONUMENTS FOUND ALONG THE CENTERLINE OF SE 28TH
ST, PER R1

NAVD 88 PER GPS OBSERVATIONS
SITE TEMP. BENCHMARK
DESCRIPTION: PK NAIL W/ RED WASHER
LOCATION: NORTH SIDE SE 27TH ST MIDDLE OF
SUBJECT PROPERTY
ELEVATION: 84.53'

EARTHWORK QUANTITIES:

CUT = 120 C.Y.

GRAPHIC SCALE

0 5 10 20

(IN FEET)
1 inch = 10 ft. (H)

FILE NAME: 2342C1.0 PLOT DATE: 12/21/23 PLOT BY: CMC PLOT SCALE: 1=1

DATE:

12-21-23

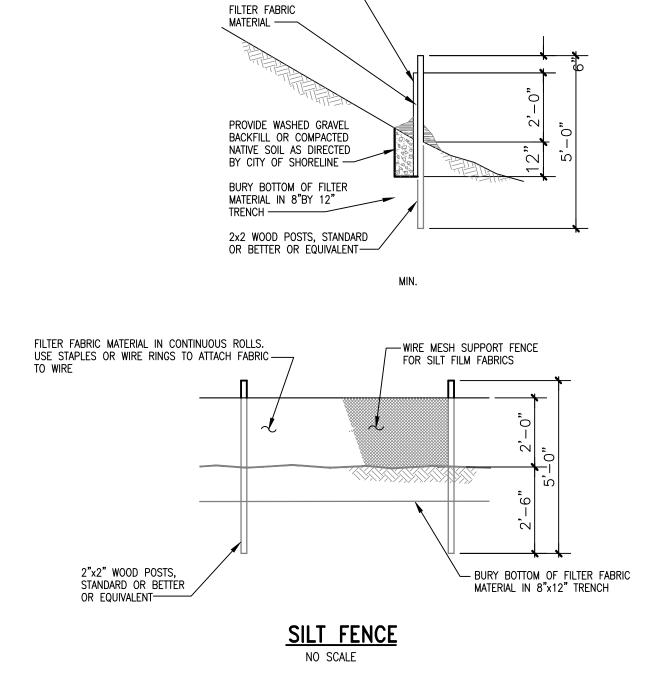
C2MY
PO B
BELL
(206.)

HEN RESIDENCE 175 SE 27TH STREET ERCER ISLAND, WA 980

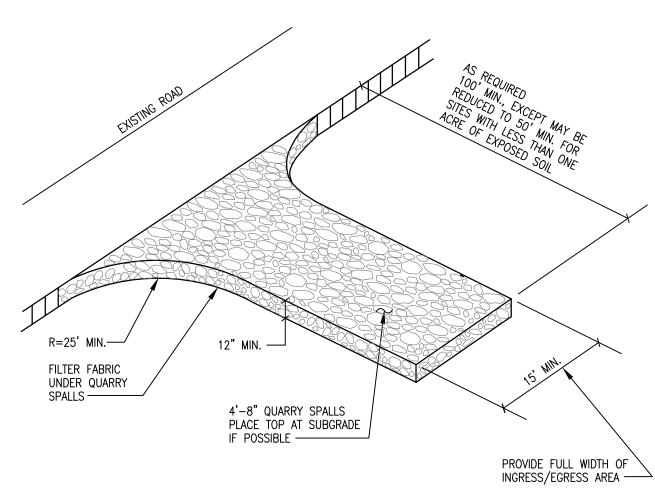
FILE NO:

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SHEET C1.0



WIRE MESH SUPPORT FENCE FOR SILT FILM FABRICS

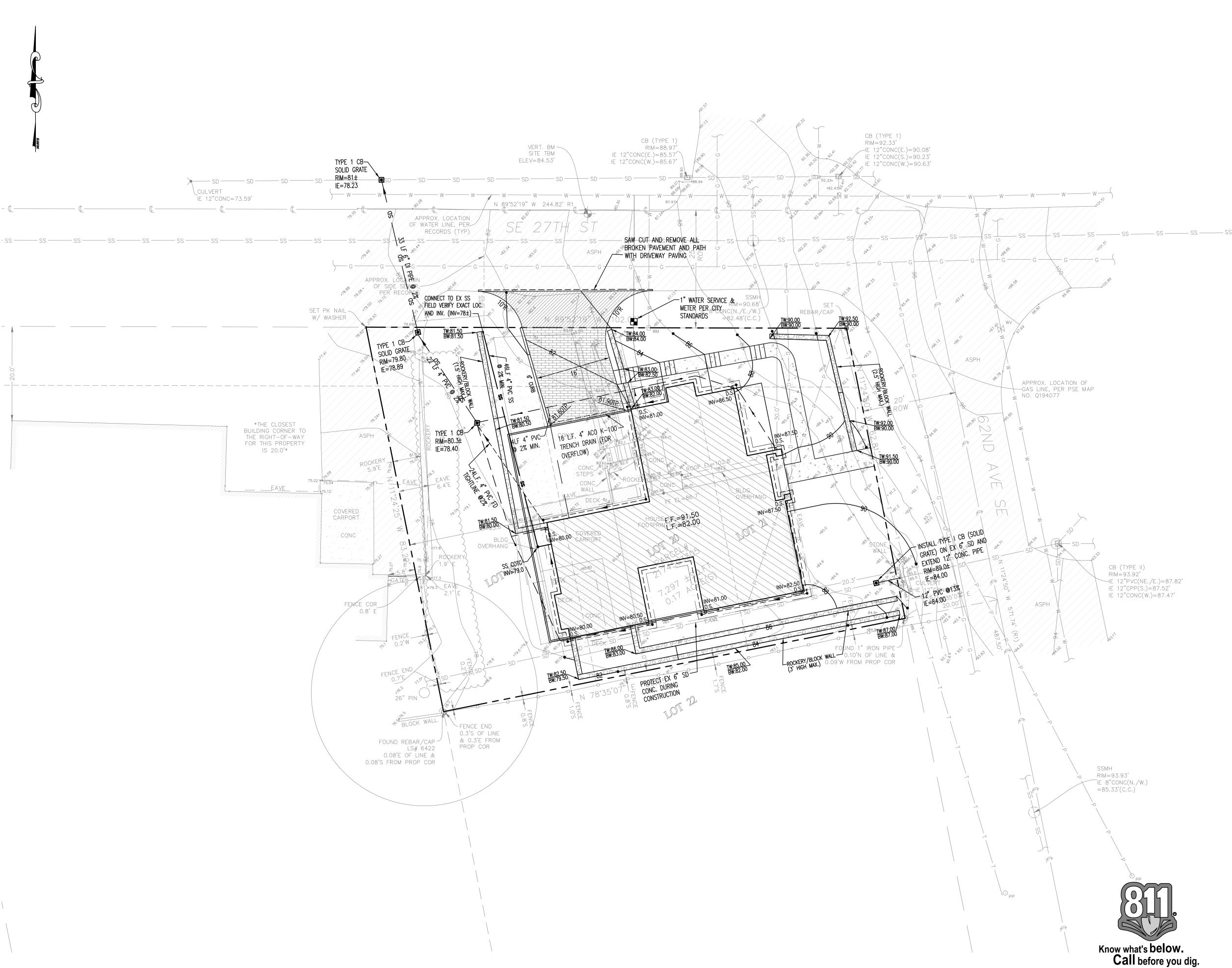


- 1. STONE SIZE USE 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN 12"
- 4. WIDTH 15 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE
- INGRESS OR EGRESS OCCURS.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT. 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION
- ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT—OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

NO SCALE

STABILIZED CONSTRUCTION ENTRANCE

DATE: 12-21-23





EXISTING LOT AREA = 7297 S.F. EXISTING BUILDING ROOF: 1600 S.F. EXISTING DRIVEWAY: 646 S.F. EXISTING DECK: 186+58 = 244 S.F. EXISTING WALKWAY: 63 S.F. TOTAL EXISTING IMPERVIOUS AREA = 2553 S.F. EXISTING IMPERVIOUS IS $\frac{2553}{7297}$ =34.9% < 35% (NEW DEVELOPMENT FLOW CHART)

PROPOSED DRIVEWAY WITHIN ROW: 177 S.F. PROPOSED DRIVEWAY WITHIN PROPERTY: 322 S.F. PROPOSED WALKWAY: 254 S.F. PROPOSED BUILDING ROOF: 1961 S.F.
PROPOSED PATIO/DECK: 92+547=639 S.F. TOTAL NEW IMPERVIOUS AREA: 3,176 S.F. < 5000 S.F.

PER FIGURE I-3.1 FLOW CHART FOR DETERMINING FOR NEW DEVELOPMENT: MINIMUM #1 TO #5 APPLIED TO NEW AND REPLACED HARD SURFACES AND THE LAND

NET INCREASE IN IMPERVIOUS AREA ON-SITE= 623 S.F.

EX. SANITARY SEWER EX. WATER LINE EX. STORM DRAIN CONCRETE DRIVEWAY GRASS LAWN

ROOF DRAIN TIGHTLINE WITH C.O.T.G.(4" PVC) FOOTING DRAIN -----W/ CLEANOUT TO GRADE

NOTES:

(C.O.T.G.)

1. SEE ARCHITECTURE SITE PLAN FOR OTHER PROPOSED INFORMATION NOT SHOWN ON THIS SHEET.

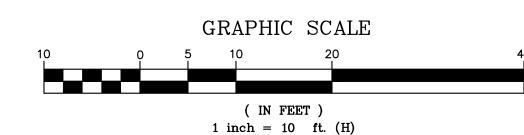
DRAINAGE GENERAL NOTES:

- 1. DOWNSPOUTS SHALL BE TIED INTO A NON-PERFORATED, RIGID, SMOOTH-BORE PIPE WHICH DRAINS TO AN APPROVED STORM SYSTEM 2. PROVIDE CLEANOUTS AT THE UPPER END OF THE SYSTEM AND AT EACH
- CUMULATIVE CHANGE OF DIRECTION IN EXCESS OF 135 DEGREES. 3. ALL PIPE FITTINGS SHALL BE MADE OF THE SAME MATERIAL AS THE STRAIGHT PIPE.
- GLUED JOINTS SHALL USE A BONDING AGENT RECOMMENDED BY THE PIPE 4. FOOTING DRAINS SHALL BE INSTALLED AROUND ALL NEW FOUNDATIONS AND SHALL BE TIGHLINED TO DISCHRAGE TO THE SPLASH BLOCK. FOOTING DRAINS SHALL BE
- CONSTRUCTED OF PERFORATED PIPE AT THE BASE OF THE FOOTING, AND SHALL MEET MATERIAL STANDARDS OF D2729 FOR PVC PIPE, WITH THE PERFORATIONS DIRECTED DOWNWARD. PLACE GRANULAR BACKFILL AROUND AND ABOVE THE FOOTING DRAIN TO A DEPTH OF 2/3 OF THE WALL HEIGHT. PROVIDE FILTER FABRIC WRAP AROUND BETWEEN THE GRANULAR BACKFILL AND THE NATIVE SOIL.

BENCHMARK AND DATUM PER SURVEY

ACCEPTED A BEARING OF N 78'35'37" E BETWEEN MONUMENTS FOUND ALONG THE CENTERLINE OF SE 28TH ST, PER R1

NAVD 88 PER GPS OBSERVATIONS SITE TEMP. BENCHMARK DESCRIPTION: PK NAIL W/ RED WASHER
LOCATION: NORTH SIDE SE 27TH ST MIDDLE OF
SUBJECT PROPERTY ELEVATION: 84.53'



FILE NAME: 2342-C2.0 PLOT DATE: 12/21/23 PLOT BY: CMC PLOT SCALE: 1=1

FILE NO: .DWG

SHEET