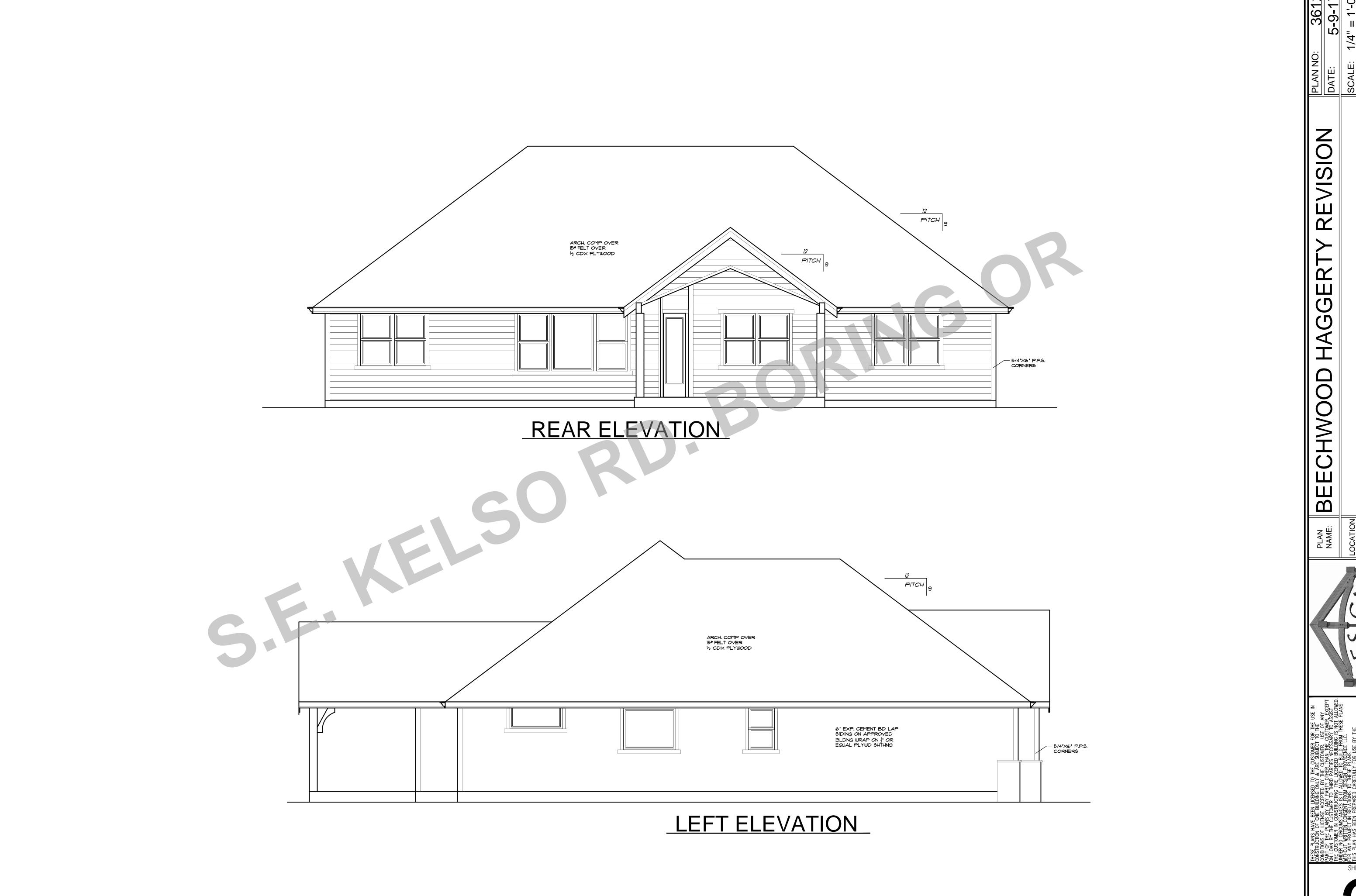
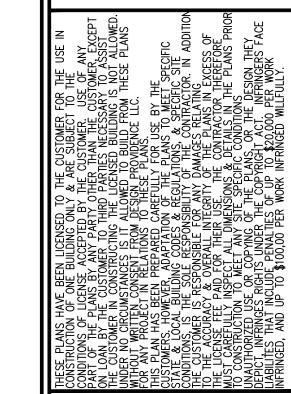
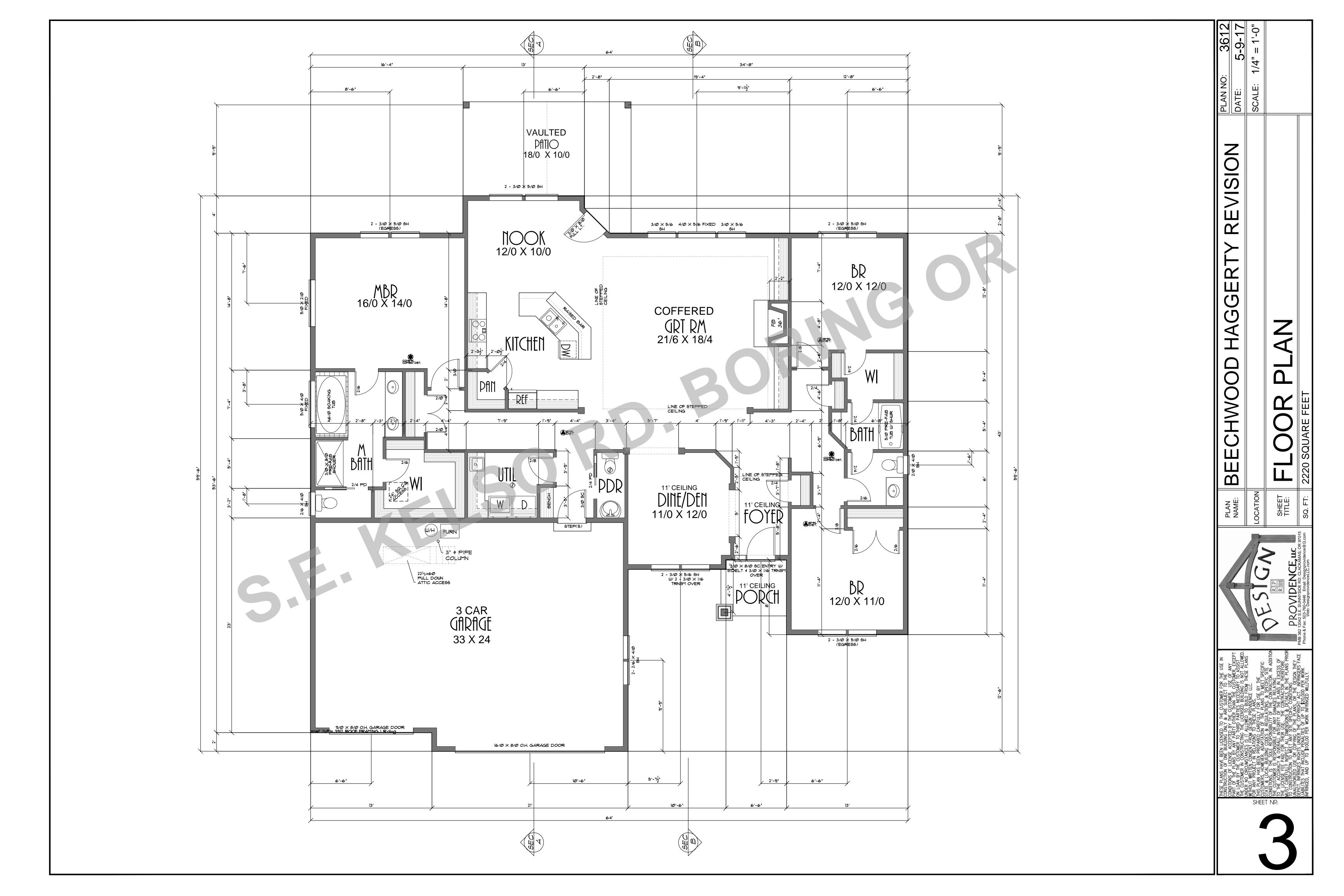
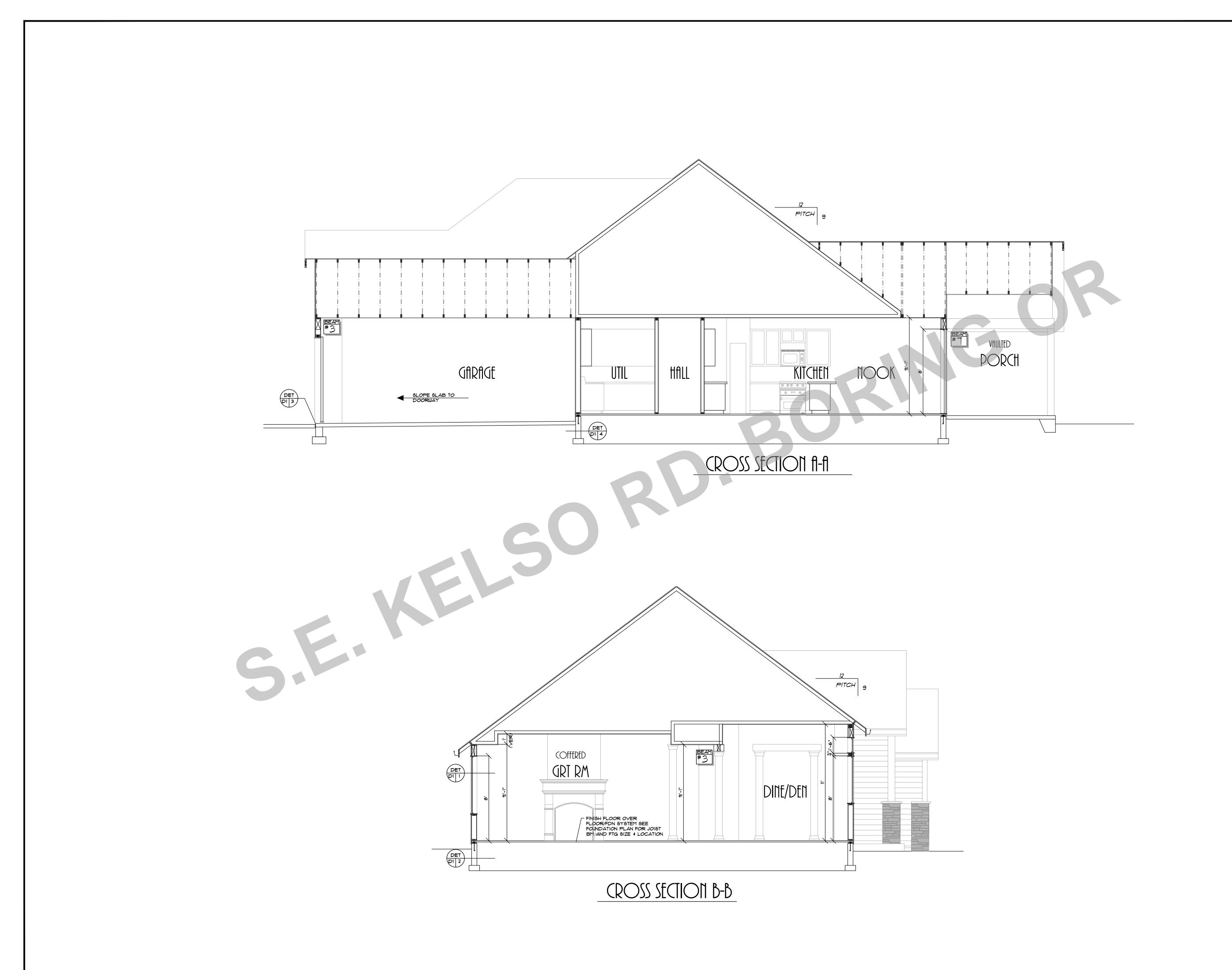


RIGHT ELEVATION



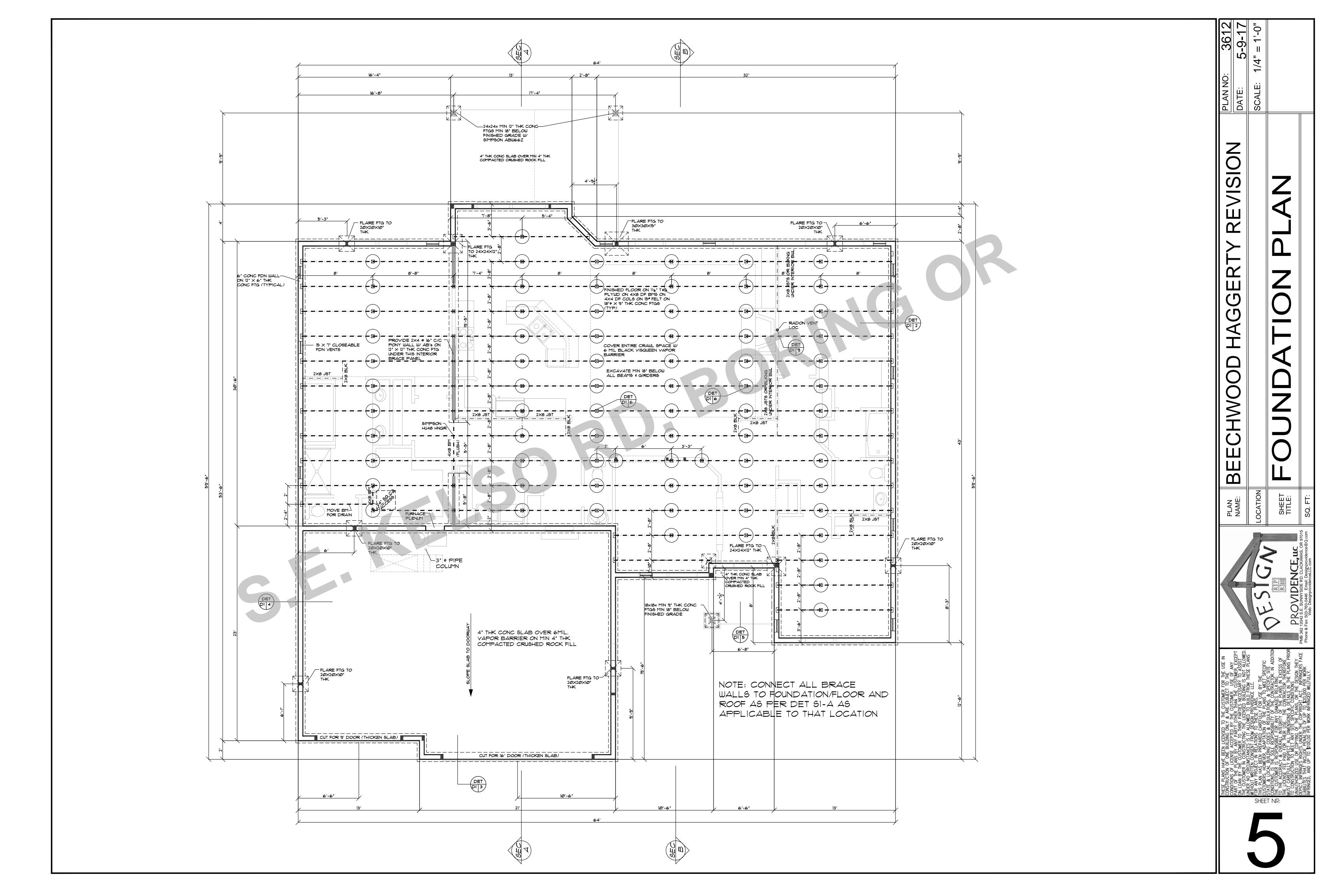


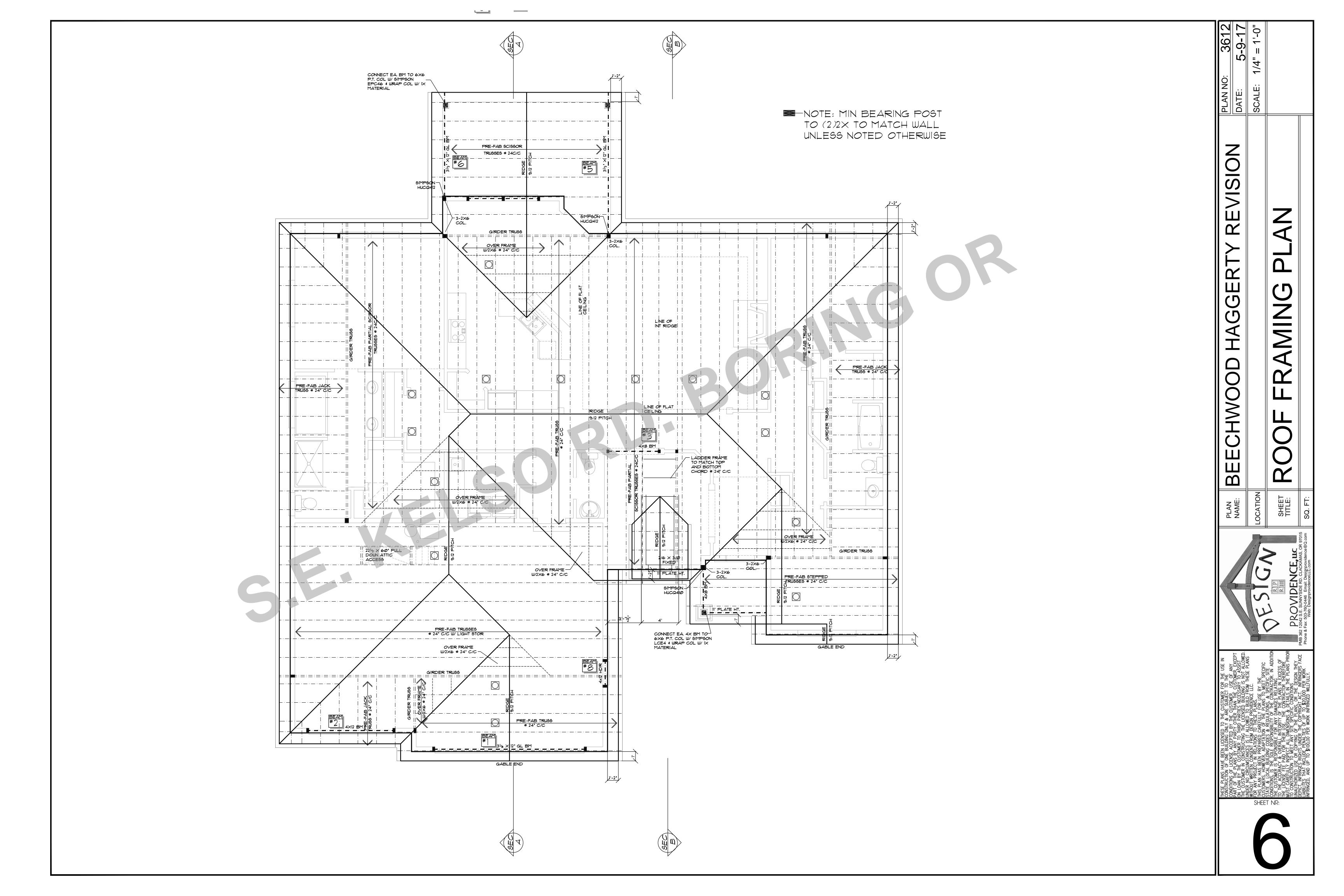


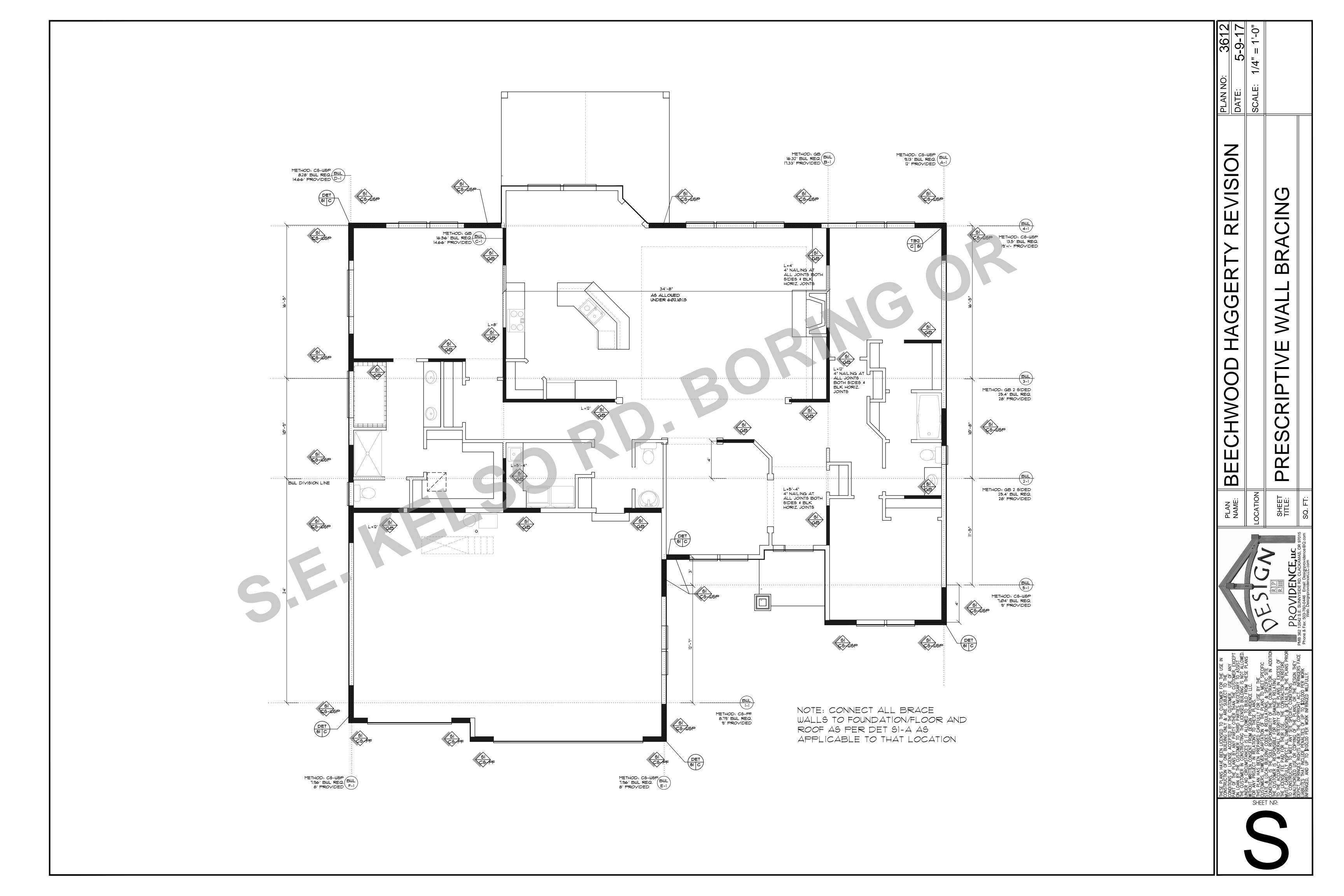


REVISION BEECHWOOD HAGGERTY

SHEET NR:

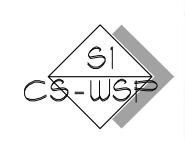








WSP	Wood structural panel (see Section R604)	³ / ₈ "		For exterior sheathing see Table R602.3(3) For interior sheathing see Table R602.3(1)
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METHOD	MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA	
CS-WSP	Wood structural panel	3/ ₈ "		6d common (2" × 0.113") nails at 6" spacing (panel edges) and at 12" spacing (intermediate supports) or 16 ga. × 1 ³ / ₄ staples at 3" spacing (panel edges) and 6" spacing (intermediate supports)	



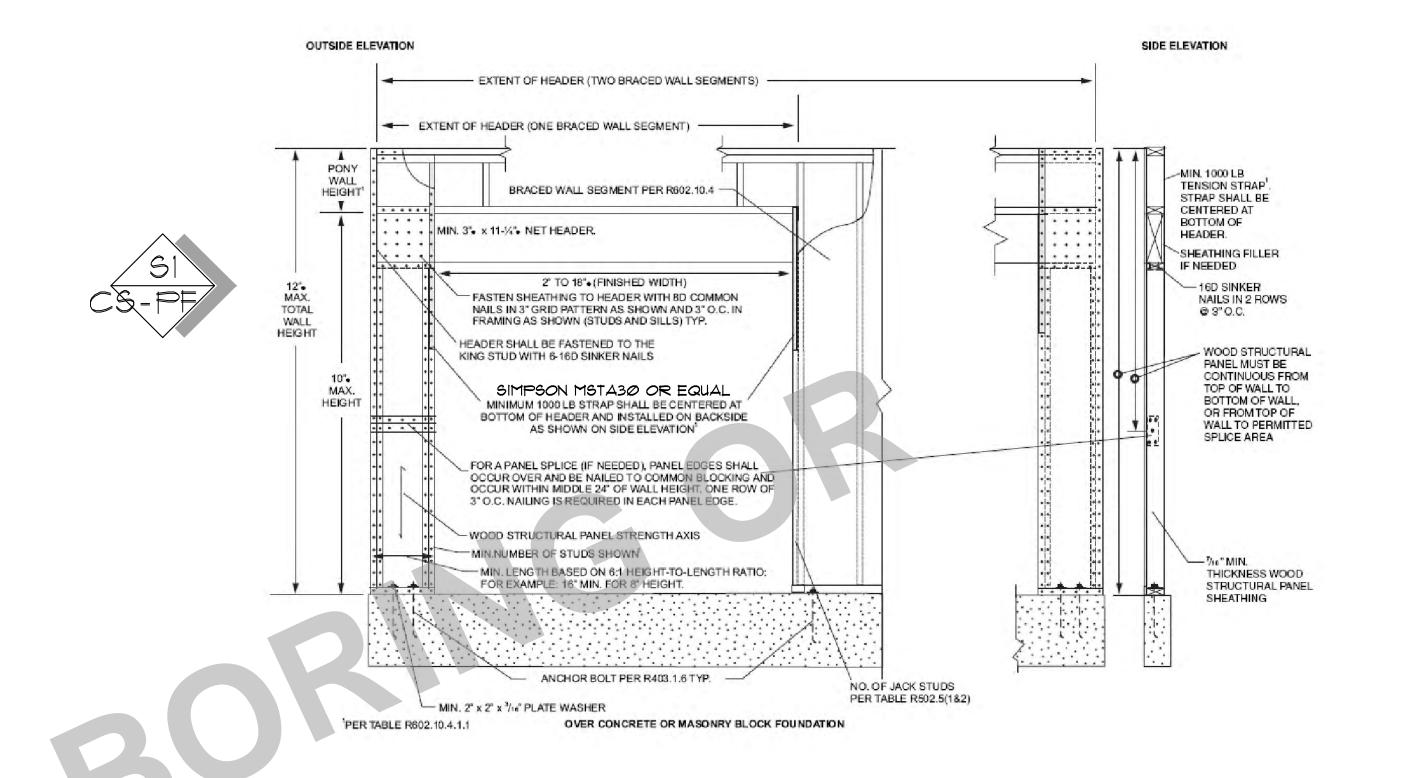
			- +	11	
GB	Gypsum board	1/2"		panel edge bottom plate panel loc sheathing n Table R6 gypsum box	rews at 7" spacing at es including top and es; for all braced wall cations for exterior nail or screw size, see 02.3(1); for interior ard nail or screw size, Sable R702.3.5

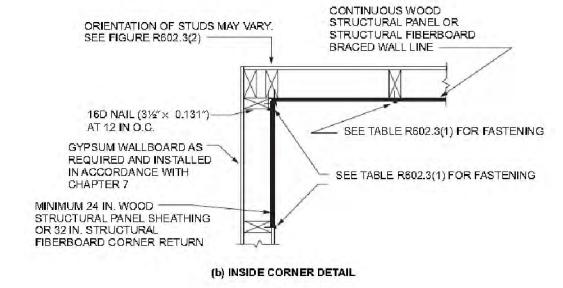
TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES^{a,b,o}

MINIMUM NAIL		MINIMUM WOOD	MINIMUM NOMINAL	MAXIMUM	PANEL NAIL SPACING		MAXIMUM WIND SPEED (mph)		
Penetration		STRUCTURAL PANEL SPAN	PANEL THICKNESS	WALL STUD SPACING	Edges	Field	Wind	exposure cat	egory
Size	(inches)	RATING	(inches)	(inches)	(inches o.c.)	(inches o.c.)	В	С	D
6d Common (2.0"×0.113")	1.5	24/0	3/8	16	6	12	110	90	85
8d Common		240.6	70.4	16	6	12	130	110	105
(2.5"×0.131")	1.75	24/16	7/16	24	6	12	110	90	85

For SI: 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s.

- a. Panel strength axis parallel or perpendicular to supports. Three-ply plywood sheathing with study spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports.
- Table is based on wind pressures acting toward and away from building surfaces per Section R301.2. Lateral bracing requirements shall be in accordance with Section R602.10.
- c. Wood Structural Panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/0 span rating. Plywood siding rated 16 oc or 24 oc shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16 oc shall be used with study spaced a maximum of 16 inches on center.







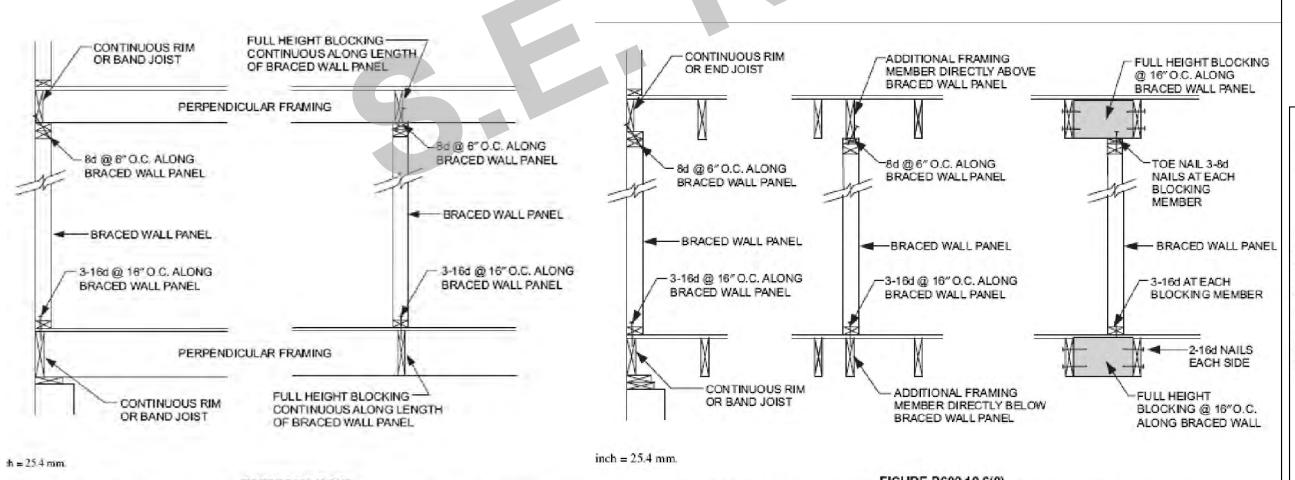


FIGURE R602.10.6(1)
BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING

DET

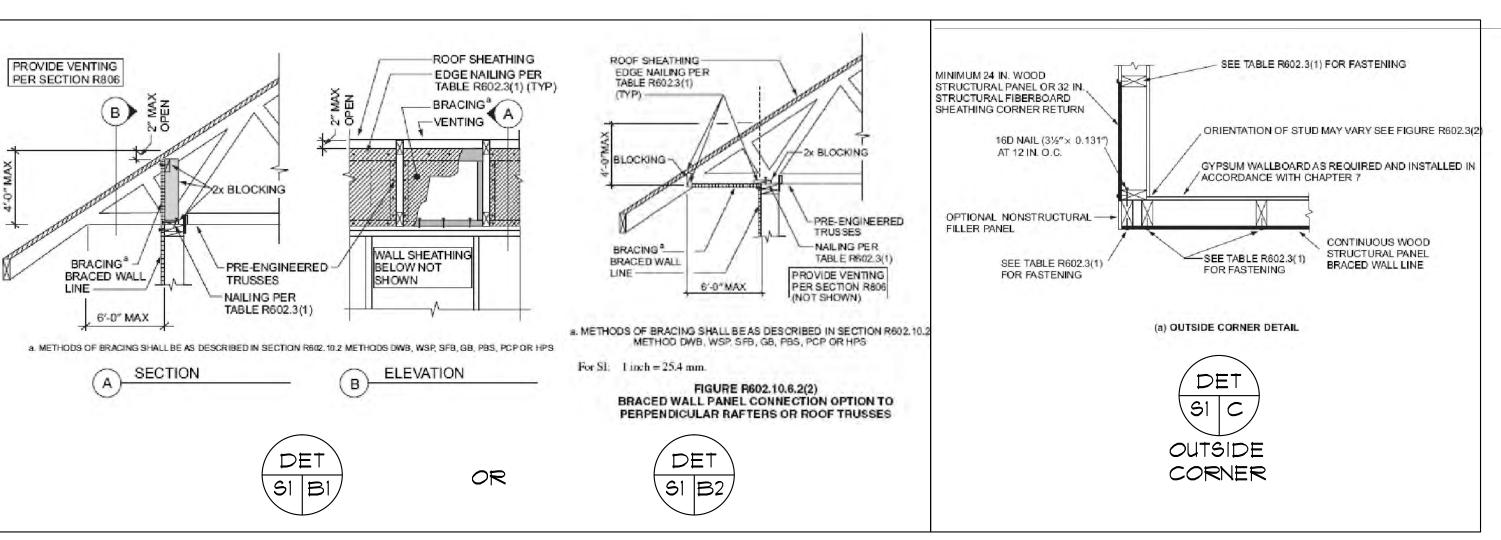
FIGURE R602.10.6(2)
TO FLOOR/CEILING FRAMING

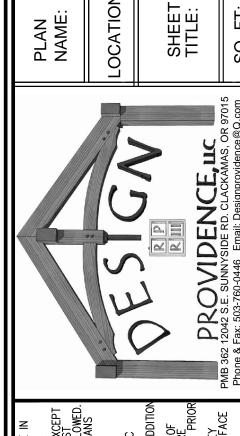
BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING

NOTE: CONNECT ALL BRACE

WALLS TO FOUNDATION/FLOOR AND ROOF AS PER DET SI-A AS APPLICABLE TO THAT LOCATION





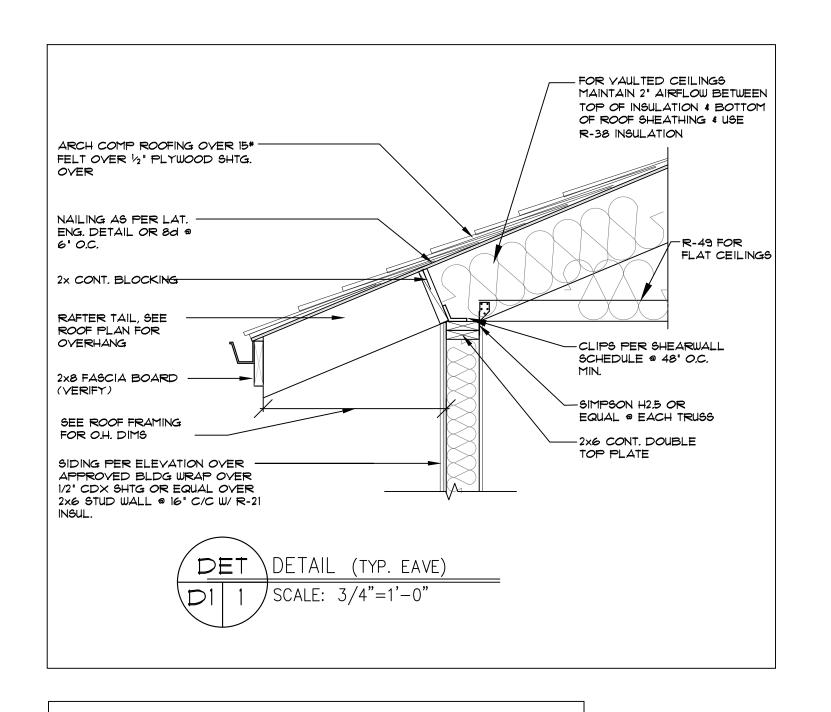


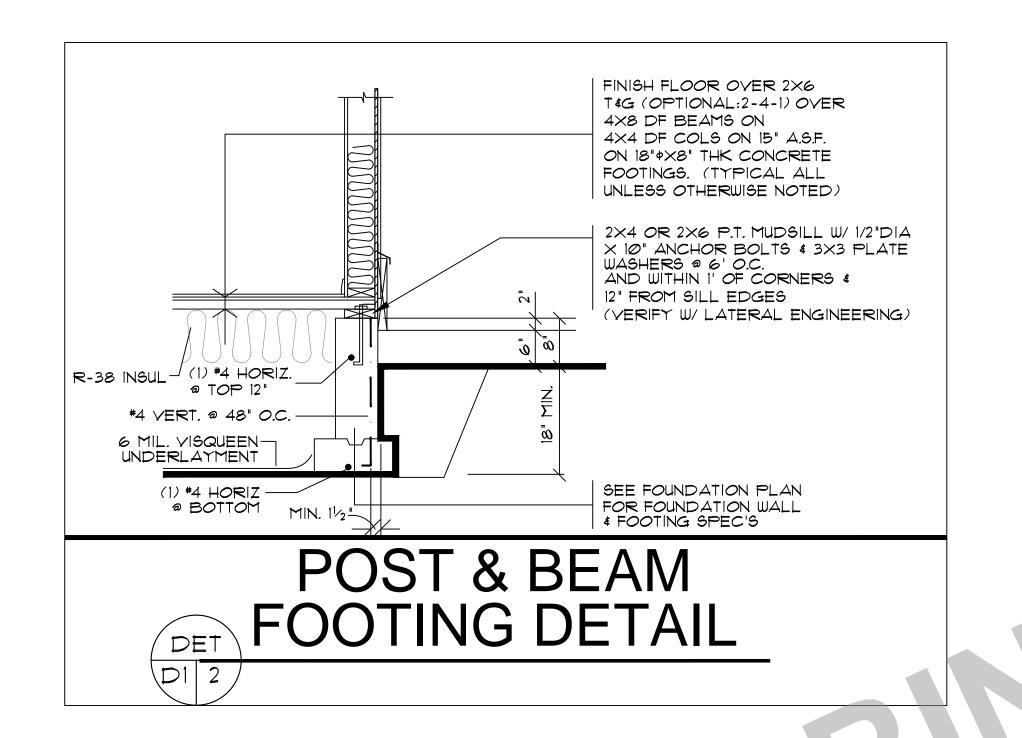
 \Box

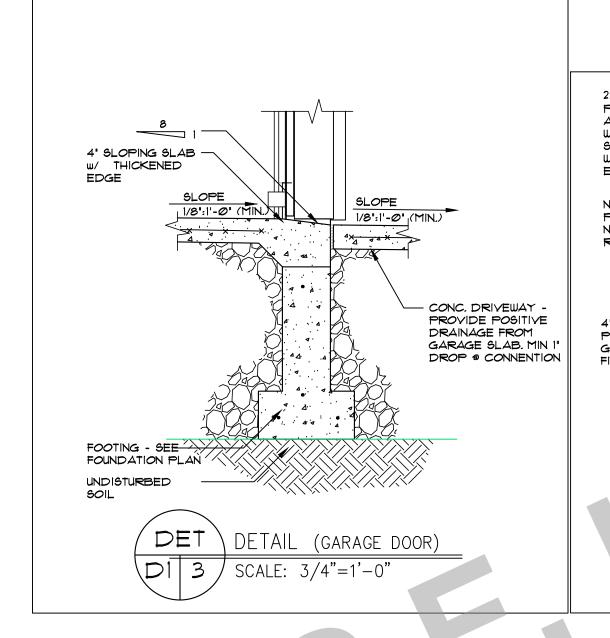
THESE PLANS HAVE BEEN LICENSED TO THE CUSTOMER FOR THE USE IN CONSTRUCTION OF ONE BUILDING ONLY & ARE SUBJECT TO THE CONSTRUCTION OF ONE BUILDING ONLY & ARE SUBJECT TO THE CONDITIONS OF LICENSE ACCEPTED BY THE CUSTOMER. USE OF ANY PART OF THE PLANS THE CUSTOMER, EXCEPT ON LOAN BY THE CUSTOMER IN CONSTRUCTING THE LICENSED BUILDING IS NOT ALLOWED. UNDER NO CIRCUMSTANCES IS IT ALLOWED TO BUILD FROM THESE PLANS WITHOUT WRITTEN CONSENT FROM DESIGN PROVIDENCE LLC.

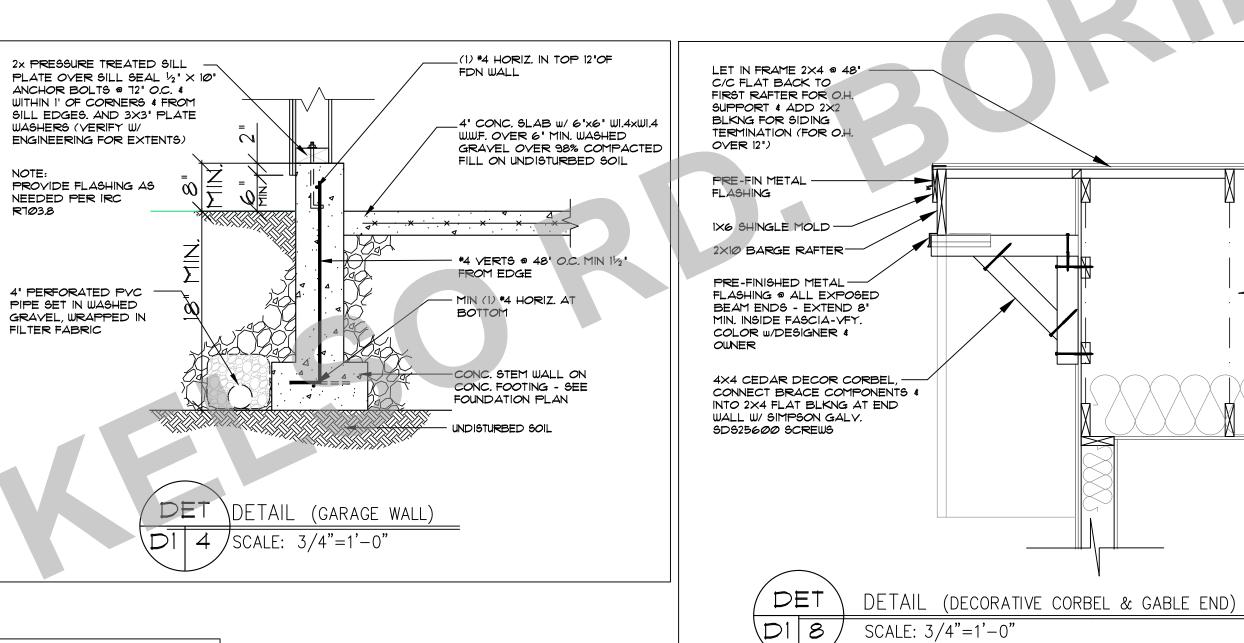
FOR ANY PROJECT IN RELATIONS TO THESE BY THE CUSTOMERS. HOWEVER, ADAPTATION OF THE PLANS TO MEET SPECIFIC SITE CUSTOMERS. HOWEVER, ADAPTATION OF THE PLANS TO MEET SPECIFIC SITE CONDITIONS, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IN ADDITION THE LICENSE FEE PAID FOR THEIR USE. THE CONTRACTOR THEREFORE MUST CAREFULLY INSPECT ALL DIMENSIONS & DETAILS IN THE PLANS PRIOR TO CONSTRUCTION TO MEET ANY SITE SPECIFIC SITE CONSTRUCTION TO MEET ANY SITE SPECIFIC SITE MUST CAREFULLY INSPECT ALL DIMENSIONS & DETAILS IN THE PLANS PRIOR TO CONSTRUCTION TO MEET ANY SITE SPECIFIC SITE MUST CANDITIONS. IN THE DESIGN THEY DEPICT. INFRINGERS FACE LIABILITES THAT INCLUDE, PENALTIES OF UP TO \$10.00 PER. WORK

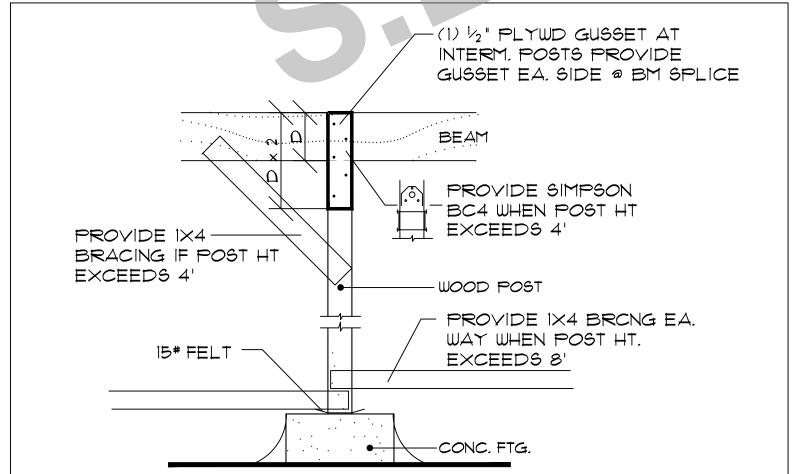
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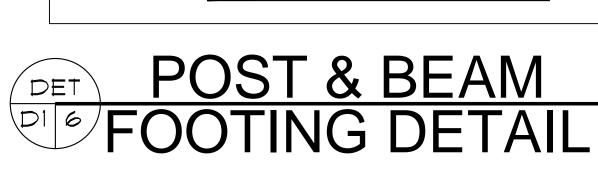


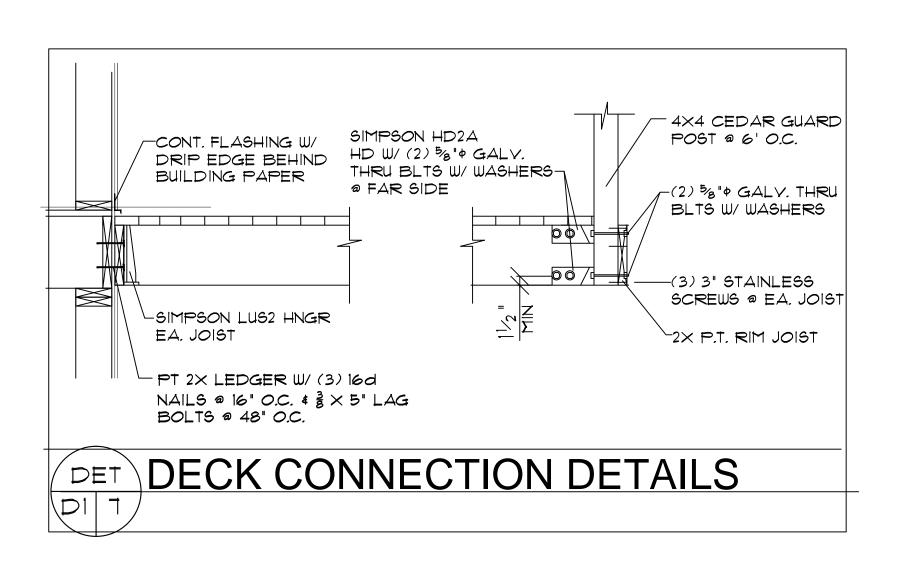


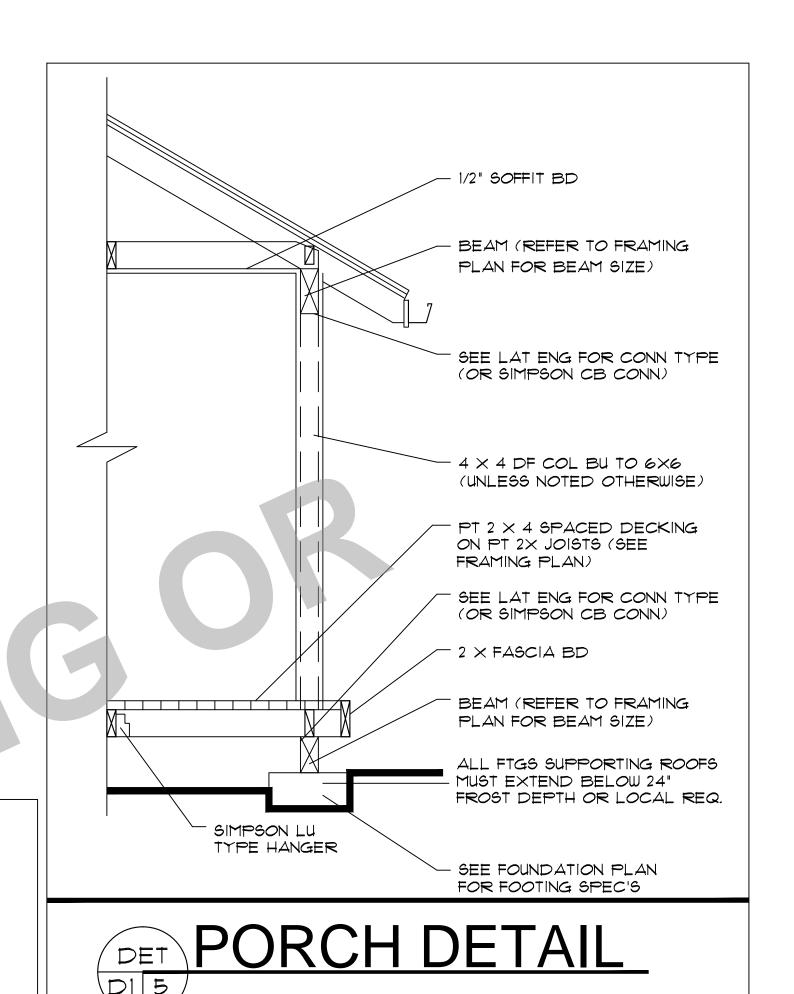


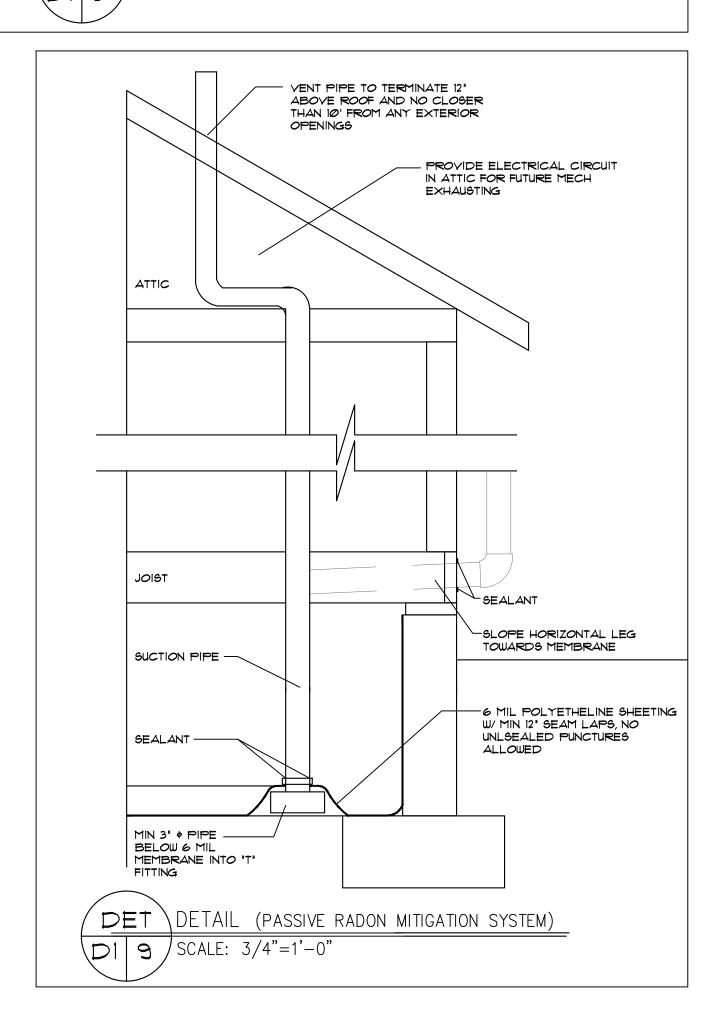


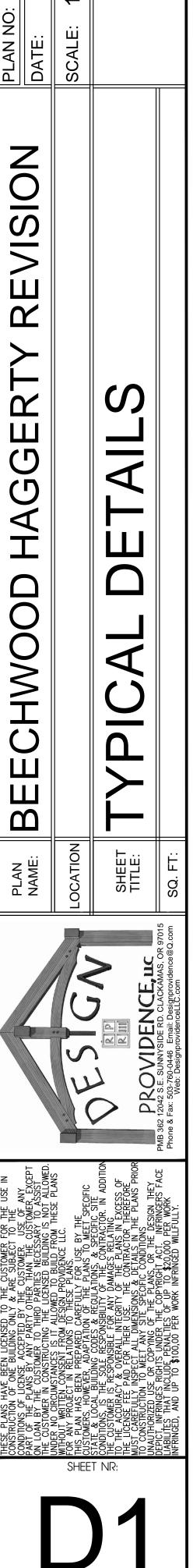












3612 -9-17 = 1'-0"

| LO| =]

ALL EXPOSED INSULATION IS TO HAVE A FLAME

RANGE HOODS ARE ALSO TO BE VENTED TO OUTSIDE.

SKYLITES ARE TO BE GLAZED WITH TEMPERED GLASS ON

OUTSIDE AND LAMINATED GLASS ON INSIDE (UNLESS

PLEXIGLAS). GLASS TO HAVE MAXIMUM CLEAR SPAN

OF 25'. SKYLITE FRAME IS TO BE ATTACHED TO A

2 X CURB WITH MINIMUM OF 4" ABOVE ROOF PLANE.

ALL TUB OR SHOWER ENCLOSURES ARE TO BE GLAZED

ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH

WEATHERSTRIPPING, PROVIDE 1/2" DEADBOLT LOCKS ON

ALL EXTERIOR DOORS AND LOCKING DEVICES ON ALL

DOORS OR WINDOWS WITHIN 10' (VERTICAL) OF GRADE.

PROVIDE PEEP-HOLE @ 54" - 66" ABOVE FLOOR ON

PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND

ANY APPLIANCES WITH AN OPEN FLAME.

BACK DAMPER) FOR FIREPLACES, WOOD STOVES AND

BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED

TO THE OUTSIDE WITH A MINIMUM OF A 90 CFM FAN.

EXTERIOR DOORS.

WITH SAFETY GLAZING. ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND

- SPREAD RATING OF LESS THAN 25 & A SMOKE DENSIT RATING OF LESS THAN 450. PERIMETER CONC. WALLS TO BE PROTECTED W/ RIGID FIBERBOARD INSULATION FROM TOP OF CONC WALL
- TO NOT LESS THAN 24" BELOW GRADE. SLAB EDGE INSULATION IS TO BE R-15. HEATING DUCTS TO BE INSULATED W/ R-8
- WINDOWS SHALL MEET REQUIRED U FACTORS FOR THE CONTRACTORS CHOSEN PATH OF COMPLIANCE SEE TABLE NIIØ4.I(1)
- ONE EXTERIOR DOOR MAY BE INSULATED TO A U-FACTOR OF 0.20. ALL OTHER EXTERIOR DOORS MAY NOT EXCEED 0.54.

TABLE 602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

DESCRIPTION	NO. & TYPE OF FASTENER abed	SPACING OF FASTENERS	
JOIST TO SILL OR GIRDER, TOE NAIL	3-8d	_	
1' imes 6' Subfloor or Less to Each Jo	2-8d 2 STAPLES, 1 ³ 4"	_	
2' SUBFLOOR TO JOIST OR GIRDER, BLIN	2-16d		
SOLE PLATE TO JOIST, SOLID DECK, OR	BLOCKING , FACE NAIL	16d	16' O.C.
TOP OR SOLE PLATE TO STUD, END NAIL STUD TO SOLE PLATE, TOE NAIL	-	2-16d 3-8d OR 2-16d	_
DOUBLE STUDS, FACE NAIL		10d	24" O.C.
DOUBLE TOP PLATES, FACE NAIL		10d	24" O.C.
SOLE PLATE TO JOIST, SOLID DECK, OR		3-16d per 16"	_
DBL TOP PLATES, MIN. 48" OFFSET OF EN	•		_
BLOCKING BETWEEN JOISTS OR RAFTERS	5 10 10P PLATE, TOE NAIL	3-8d 8d	6' O.C.
TOP PLATES, LAPS AT CORNERS AND IN	ITERSECTIONS, FACE NAIL	2-10d	
BUILT-UP HEADER, TWO PIECES WITH 1/2"	SDACED	16d	16" O.C. ALONG EA EDGE
	of ACER		
CONTINUED HEADER, TWO PIECES		16d	16" O.C. ALONG EA EDGE
CIELING JOISTS TO PLATE, TOE NAIL		3-8d	
CONTINUOUS HEADER TO STUD, TOE NAIL		4-8d 3-10d	
CEILING JOIST, LAPS OVER PARTITIONS,			_
CEILING JOIST TO PARALLEL RAFTERS, F RAFTER TO PLATE, TOE NAIL	ACE NAIL	3-10d 2-16d	_
·	CE MAII	2-160	_
I' BRACE TO EACH STUD AND PLATE, FA	CE NAIL	2-8d	_
		2 STAPLES, 13/4"	_
BUILT-UP CORNER STUDS		10d	24' O.C.
BUILT-UP GIRDERS AND BEAMS, 2-INCH .	IIIMRED I AVEDA	10d	NAIL EACH LAYER AS
BUILT-UP GIRDERS AND BEAMS, 2-INCH.	LUMBER LATERS	lea .	FOLLOWS: 32" O.C. @ TOF & BOTTOM, STAGGERED TWO NAILS AT ENDS AND AT EACH SPLICE.
2' PLANKS		2-16d	AT EACH BEARING
ROOF RAFTERS TO RIDGE, VALLEY OR H	JID DAETEDS.		
TOE NAIL		4-16d	_
FACE NAIL		3-16d	_
RAFTER TIES TO RAFTERS, FACE		3-8d	_
	SPACING OF FASTENERS		
		6D (CIVIC	
DESCRIPTION OF	DESCRIPTION OF	SPACING	OF FASTENERS
DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER bade	SPACING EDGES (IN.)1	OF FASTENERS INTERMEDIATE SUPPORTS CR (IN.)
	FASTENER beds PANELS, SUBFLOOR, ROOF AND WA	EDGES (IN.)	INTERMEDIATE SUPPORTS ^{C.S.} (IN.)
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT	FASTENER bods PANELS, SUBFLOOR, ROOF AND WATTHING TO FRAMING	EDGES (IN.) ¹ ALL SHEATHING TO	INTERMEDIATE SUPPORTS C.S. (IN.) D FRAMING,
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL	FASTENER beds PANELS, SUBFLOOR, ROOF AND WA	EDGES (IN.)	INTERMEDIATE SUPPORTS ^{C.S.} (IN.)
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT	FASTENER bods PANELS, SUBFLOOR, ROOF AND WATTHING TO FRAMING	EDGES (IN.) ¹ ALL SHEATHING TO	INTERMEDIATE SUPPORTS C.S. (IN.) D FRAMING,
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT	FASTENER bods PANELS, SUBFLOOR, ROOF AND WATHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	EDGES (IN.) ¹ ALL SHEATHING TO	INTERMEDIATE SUPPORTS C.S. (IN.) D FRAMING,
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2'	FASTENER bade PANELS, SUBFLOOR, ROOF AND WATTHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL	EDGES (IN.)1 ALL SHEATHING TO	INTERMEDIATE SUPPORTS C. (IN.) FRAMING,
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2' 19/32'-1' 1 1/8'-1 1/4'	FASTENER bods PANELS, SUBFLOOR, ROOF AND WATHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	EDGES (IN.)1 ALL SHEATHING TO	INTERMEDIATE SUPPORTS C.S. (IN.) FRAMING,
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2'	FASTENER bade PANELS, SUBFLOOR, ROOF AND WATTHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL	EDGES (IN.)1 ALL SHEATHING TO	INTERMEDIATE SUPPORTS C. (IN.) FRAMING,
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2' 19/32'-1' 1 1/8'-1 1/4'	FASTENER bade PANELS, SUBFLOOR, ROOF AND WATTHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL	EDGES (IN.)1 ALL SHEATHING TO	INTERMEDIATE SUPPORTS C. (IN.) FRAMING,
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2' 19/32'-1' 11/8'-11/4' OTHER WALL SHEATHING ^h 1/2' REGULAR CELLULOSIC FIBERBOARD SHEATHING 1/2' STRUCTURAL CELLULOSIC FIBERBOARD	FASTENER bades PANELS, SUBFLOOR, ROOF AND WATTHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COM NAIL OR 8d DEFRMD NAIL 11/2 GALVANIZED ROOFING NAIL, 6d COM NAIL, 5TAPLE 16 GA., 11/2 LONG 11/2 GALVANIZED ROOFING NAIL, 8d COM NAIL, 8d COM NAIL, 8d COM NAIL,	EDGES (IN.)1 ALL SHEATHING TO 6 6	INTERMEDIATE SUPPORTS C. (IN.) FRAMING, 129 129 129
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2' 19/32'-1' 11/8'-11/4' OTHER WALL SHEATHING ^h 1/2' REGULAR CELLULOSIC FIBERBOARD SHEATHING	FASTENER bades PANELS, SUBFLOOR, ROOF AND WATTHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COM NAIL OR 8d DEFRMD NAIL 11/2" GALVANIZED ROOFING NAIL, 6d COM NAIL, 5TAPLE 16 GA., 11/2" LONG	EDGES (IN.)1 ALL SHEATHING TO 6 6 6	INTERMEDIATE SUPPORTS C.S. (IN.) PRAMING, 129 129 129 12
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2' 19/32'-1' 1 1/8'-1 1/4' OTHER WALL SHEATHING h 1/2' REGULAR CELLULOSIC FIBERBOARD SHEATHING 1/2' STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	FASTENER bods PANELS, SUBFLOOR, ROOF AND WATHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COM NAIL OR 8d DEFRMD NAIL 10d COM NAIL OR 8d DEFRMD NAIL 6d COM NAIL, 6d COM NAIL, 8TAPLE 16 GA., 11/2" LONG 11/2" GALVANIZED ROOFING NAIL, 8d COM NAIL, 8d COM NAIL, 8TAPLE 16 GA., 11/2" LONG	EDGES (IN.)1 ALL SHEATHING TO 6 6 6	INTERMEDIATE SUPPORTS C.S. (IN.) PRAMING, 129 129 129 12
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16"-1/2" 19/32"-1" 11/8"-11/4" OTHER WALL SHEATHING ^h 1/2" REGULAR CELLULOSIC FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	FASTENER bades PANELS, SUBFLOOR, ROOF AND WATTHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COM NAIL OR 8d DEFRMD NAIL 11/2 GALVANIZED ROOFING NAIL, 6d COM NAIL, 5TAPLE 16 GA., 11/2 LONG 11/2 GALVANIZED ROOFING NAIL, 8d COM NAIL, 8d COM NAIL, 8d COM NAIL,	EDGES (IN.)1 ALL SHEATHING TO 6 6 3	INTERMEDIATE SUPPORTS C.S. (IN.) PRAMING, 129 129 129 6
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2' 19/32'-1' 11/8'-11/4' OTHER WALL SHEATHING h 1/2' REGULAR CELLULOSIC FIBERBOARD SHEATHING 1/2' STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 25/32' STRUCTURAL CELLULOSIC FIBERBOARD	FASTENER bods PANELS, SUBFLOOR, ROOF AND WATHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COM NAIL OR 8d DEFRMD NAIL 10d COM NAIL OR 8d DEFRMD NAIL 6d COM NAIL, 6d COM NAIL, 5TAPLE 16 GA., 1/2" LONG 11/2" GALVANIZED ROOFING NAIL, 8d COM NAIL, 5TAPLE 16 GA., 1/2" LONG 134" GALVANIZED ROOFING NAIL, 8d COM NAIL,	EDGES (IN.)1 ALL SHEATHING TO 6 6 3	INTERMEDIATE SUPPORTS C. (IN.) PRAMING, 129 129 129 6
BUILDING MATERIALS PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT 5/16'-1/2' 19/32'-1' 11/8'-11/4' OTHER WALL SHEATHING h 1/2' REGULAR CELLULOSIC FIBERBOARD SHEATHING 1/2' STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 25/32' STRUCTURAL CELLULOSIC FIBERBOARD	FASTENER bods PANELS, SUBFLOOR, ROOF AND WATHING TO FRAMING 6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COM NAIL OR 8d DEFRMD NAIL 10d COM NAIL OR 8d DEFRMD NAIL 6d COM NAIL, 6d COM NAIL, 5TAPLE 16 GA., 1/2" LONG 11/2" GALVANIZED ROOFING NAIL, 8d COM NAIL, 5TAPLE 16 GA., 1/2" LONG 134" GALVANIZED ROOFING NAIL, 8d COM NAIL,	EDGES (IN.)1 ALL SHEATHING TO 6 6 3	INTERMEDIATE SUPPORTS C. (IN.) PRAMING, 129 129 129 6
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- . ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING ANS SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 Kei (551 MPa) FOR SHANK DIAMETER OF Ø.192' (20d COMMON NAIL), 90 ksi (620 MPa) FOR SHANK DIAMETERS LARGER THAN Ø.142' BUT NOT LARGER THAN Ø.171", AND 100 kei (689 MPa) FOR SHANK DIAMETERS OF Ø.142" OR LESS. D. STAPLES ARE 16 GUAGE WIRE AND HAVE A MINIMUM 7/16-INCH O.D. CROWN WIDTH.
- c. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES O.C. AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER. d. FOUR-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY. e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE 602.3(2). FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8d DEFORMED NAILS SHALL BE USED FOR ATTACHING
- PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCH DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25', UP TO 35' MAXIMUM.
- FOR REGIONS HAVING BASIC WIND SPEED OF LESS THAN 110 MPH, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6' O.C. WHEN BASIC WIND SPEED IS GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6" O.C. FOR MINIMUM
- 48' DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS, AND 4' O.C. TO GABLE END WALL FRAMING. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 19 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO EITHER AHA 194.1 OR ASTM C 208. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING
- MEMBERS AND AT ALL ROOF PLANE PERIMETERS ONLY. SPACING OF FASTENERES ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS SHALL NOT BE REQUIRED EXCEP AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING. INTERIOR NON-BRACED WALL LINES MAY BE NAILED WITH A MINIMUM 4-100 NAILS.

FRAMING NOTES

AS PER THE ORSC SEC R602.8

- ALL EXTERIOR WALL AND BEARING WALL OPENINGS TO HAVE 4X12 HEADERS UNLESS OTHERWISE INDICATED . JOISTS THAT ARE ATTACHED TO FLUSH BEAMS ARE TO BE HUNG WITH "SIMPSON" LU TYPE OR EQUIV. 26. DOUBLE JOISTS THAT ARE ATTACHED TO FLUSH BMS
- ARE TO BE HUNG WITH "SIMPSON" LUS TYPE OR EQUIV. B. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL

4. PROVIDE FIREBLOCKING, DRAFTSTOPS & FIRESTOPS

- A. POSTS, BEAMS, HEADERS NO.2 DOUG FIR JOISTS AND RAFTERS NO.3 DOUG FIR B. SILLS, PLATES, BLOCKING BRIDGING, ETC. C. STUDS STUD GRADE DF. UTILITY GRADE DF.
- D. POST AND BEAM DECKING E. PLYWOOD SHEATHING 1/2" CDX PLY, 32/16 F. GLU-LAM BEAMS 6. NAILING SCHEDULE SEE TABLE 602,3(1)
- 7. NOTCHES IN SOLID LUMBER JOISTS, RAFTERS, AND BEAM SHALL NOT EXCEED ONE-SIXTH OF THE DEPTH OF THE MEMBER, SHALL NOT BE LONGER THAN ONE-THIRD OF TH DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. NOTCHES AT THE ENDS OF THE MEMBER SHALL NOT EXCEED ONE-FOURTH THE DEPTH OF THE MEMBER. THE TENSION SIDE OF MEMBERS 4" (102mm) OR GREATER IN NOMINAL THICKNESS SHALL NOT BE NOTCHED EXCEPT AT ENDS THE MEMBERS. THE DIAMETER OF HOLES BORED OR CUT INTO MEMBERS SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. HOLES SHALL NOT BE CLOSER THAN 2" TO THE TOP OR BOTTOM OF THE MEMBER, OR TO
- MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2" (51mm) TO THE NOTCH. 8. STUDS IN AN EXTERIOR WALL OR LOAD-BEARING PAR-TITIONS SHALL BE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NON-LOAD-BEARING PARTITIONS SHALL BE PERMITTED TO BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF A SINGLE STUD WIDTH, STUDS SHALL BE PERMITTED TO BE BORED OR DRILLED, PROVIDED THA THE DIAMETER OF THE RESULTING HOLE IS NO GREATER THAN 40% OF THE STUD WIDTH, THE EDGE OF THE HOLE IS NO CLOSER THAN 5/8" (15.9mm) TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH.

ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE

10. ALL MEMBERS IN BEARING SHALL BE ACCURATELY CUT AND ALIGNED SO THAT FULL BEARING IS PROVIDED WITHOUT USE OF SHIMS. BEARING POSTS SHALL HAVE FULL BLOCKING OR SUPPORT UNDER 11. ALL JOISTS SHALL HAVE A MINIMUM OF 2" BEARING AT SUPPORTS. LAPPING JOISTS SHALL HAVE 6' LAPS CENTERED OVER INTERIOR SUPPORTS.

9. INSTALL ALL HORIZONTAL MEMBERS WITH CROWN UP.

LEDGERS AND STUD WALL FOUNDATION SILL PLATES SHALL BE BOLTED TO CONCRETE W/ ANCHOR BOLTS OF SIZE AND MINIMUM SPACING AS SHOWN ON DRAWINGS. PIECE W/ ONE BOLT WITHIN 12" OF EACH END ALL PLYWOOD WALL SHEATHING SHALL BE APPLIED AS FOLLOWS: CENTER VERTICAL JOINTS OVER STUDS AND CENTER HORIZONTAL JOINT OVER 2" BLOCKING OR PLATE. NAIL TOP OF PANELS TO DOUBLE TOP PLATE, AND NAIL BOTTOM OF PANELS TO ANCHORED SILL PLATE APPLY GYPSUM BOARD SO THAT END JOINTS OF ADJACENT COURSE DO NOT OCCUR AT THE SAME STUD.

- FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ANY ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW THE FINAL GRADE. 2. SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF. 3. ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MINIMUM OF 4" GRANULAR MATERIAL COMPACTED TO 95%,
- 4. CONCRETE TO DEVELOP A MIN. OF 3000 PSI AT 28 DAYS WITH A MIN. OF 6 SACKS OF CEMENT PER YARD AND A MAXIMUM SLUMP OF 4". 5. CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' (MAXIMUM) INTERVALS EA, WAY, 6. CONCRETE SIDEWALKS TO HAVE 3/4' TOOLED JOINTS
- AT 5' O.C. (MINIMUM) REINFORCING STEEL TO BE A-615 GRADE 40. WELDED WIRE MESH TO BE A-185. 8. EXCAVATE THE SITE TO PROVIDE A MINIMUM OF 18' CLEARANCE UNDER ALL GIRDERS. 3. COVER ENTIRE CRAWLSPACE WITH 6 MIL BLACK

'YISQUEEN' AND EXTEND UP FOTN. WALLS TO P.T. MUDSILI

- 10. PROVIDE A MINIMUM OF 1 SQ FT OF VENTILATION AREA FOR EACH 150 SQ FT OF CRAWLSPACE AREA. VENTS ARE TO BE CLOSABLE WITH 1/4" OPENINGS IN CORROSIV RESISTANT SCREEN 11. ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 30# ROLL ROOFING.
- 12. BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE AT SIDES AND ENDS WITH A MINIMUM BEARING OF 3". PROVIDE CRAWLSPACE DRAIN AS PER SEC. R405.1 OF . THE GRADE AWAY FROM FND WALLS SHALL FALL 6" MIN.
- WITHIN FIRST 10". 5. SLOPE FOR PERMANENT FILLS AND CUT SLOPES SHALL NOT EXCEED 2 UNITS HORIZ, TO 1 UNIT VERT . BACKFILL SHALL NOT BE PLACED UNTIL WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO FLOOR ABOVE ON WALLS W/ MORE THAN 4' UNBALANCED
- BUILDER SHALL BE RESPONSIBLE FOR SUPPORT OF ALL TEMPORARY EMBANKMENTS AND EXCAVATIONS. FOOTINGS SHALL BE FOUNDED ON FIRM UNDISTURBED. NATIVE FREE DRAINING SOILS CONDITIONS FOUND TO B OTHERWISE SHALL BE REPORTED TO OWNER. ALL GROUND OVER WHICH FOOTINGS AND SLABS-ON-GRADE ARE TO BE PLACED SHALL BE FREE OF EXPANSIVE OR COMPRESSIBLE DEBRIS AND ORGANIC
- D. FOOTINGS AND SLABS-ON-GRADE CONCRETE SHALL NOT BE PLACED ON MUDDY OR FROZEN GROUND. SUB-GRADE FOR SLABS-ON-GRADE WHERE VAPOR BARRIER IS NOT REQUIRED SHALL BE DAMP AT TIME OF CONCRETE PLACEMENT.

ELECTRICAL REQUIREMENT

LIGHTING REQUIREMENTS:

- AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM AND IN BATHROOMS, HALLWAYS, STAIRWAYS, ATTACHED GARAGES, DETACHED GARAGES PROVIDED WITH ELECTRICAL POWER AND AT THE EXTERIOR SIDE OF EGRESS DOORS.
- STAIRWAY LIGHTING CONTROL:
 ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS OF ILLUMINATION TO THE STAIR, INCLUDING THE LANDINGS AND TREADS, TO BE CONTROLLED BY A WALL SWITCH AT EACH FLOOR LEVEL. INTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING AT THE TOP AND BOTTOM OF THE STAIR. EXTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIR. EXCEPTION: WHERE THE DIFFERENCE BETWEEN FLOOR LEVELS REQUIRES LESS THAN 6 STAIR RISERS.
- FIXTURES IN CLOTHES CLOSETS:
 SURFACE MOUNTED FLUORESCENT FIXTURES SHALL BE INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 6" BETWEEN THE FIXTURE AND THE NEAREST POINT OF A STORAGE SPACE.
- WET OR DAMP LOCATIONS:
 FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SO THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMPHOLDERS OR OTHER ELECTRICAL PARTS. ALL FIXTURES INSTALLED IN WET LOCATIONS SHALL BE MARKED "SUITABLE FOR WET LOCATIONS". ALL FIXTURES INSTALLED IN DAMP LOCATIONS SHALL BE MARKED "SUITABLE FOR WET" LOCATIONS' OR 'SUITABLE FOR DAMP LOCATIONS'
- <u>LIGHT SWITCH ACCESS</u> ALL SWITCHES SHALL BE LOCATED TO ALLOW OPERATION FROM A READILY ACCESSIBLE LOCATION
- RECEPTACLE OUTLET REQUIREMENTS: IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, DEN, BEDROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET MEASURED HORIZONTALLY FROM AN OUTLET IN THAT SPACE, INCLUDING ANY WALL SPACE THAT IS 2 FEET OR MORE IN WIDTH
- RECEPTACLE OUTLETS, WITH GFI PROTECTION, SHALL BE INSTALLED EVERY 24" ON ALL COUNTER SPACES THAT MEASURE 12" OR WIDER
- AT LEAST ONE WALL RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED IN BATHROOMS ADJACENT TO EACH BASIN LOCATION.
- AT LEAST ONE RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED OUTDOORS AT THE FRONT AND BACK OF EACH DWELLING UNIT HAVING DIRECT ACCESS TO GRADE.
- HALLWAYS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET. HYAC OUTLET: A CONVENIENCE RECEPTACLE OUTLET SHALL BE INSTALLED FOR THE SERVICING
- OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT LOCATED IN ATTICS AND CRAWL SPACES. A RECEPTACLE INSTALLED IN A WET LOCATION SHALL BE IN A WEATHER PROOF ENCLOGURE, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN THE ATTACHMENT
- *ADDITIONAL INFORMATION CAN BE FOUND IN THE OREGON
- E37-404 SWITCHES 31-406 RECEPTACLE OUTLETS

E37-410 LIGHTING OUTLETS

PLUG CAP IS INSERTED.

ABRIDGED TABLE N1101.1(1)

BUILDING COMPONENTS	REQUIRED VALUE	
WALL INSULATION ABOVE GRADE	R = 21°	
WALL INSULATION BELOW GRADE*	R = 15	
FLAT CEILINGS'	R = 49	
YAULTED CEILINGS ⁹	R = 38°	
UNDERFLOOR INSULATION	R = 38	
SLAB FLOOR EDGE INSULATION	R = 15	
HEATED SLAB FLOOR INTERIORS'	R = 10	
WINDOW CLASS	u = 0.35	
SKYLIGHT CLASS!	U = 0.60	
EXT. DOORS"	U = 0.20	
EXT. DOORS W/<2.5 SQ. FT. GLAZING	U = 0.40	
FORCED AIR DUCT INSULATION	R - 8	

ADDITIONAL NOTES

- a. As allowed in Section 404.1, thermal performance of a component may be adjusted provided that overall heat loss does not exceed the total resulting from conformance to the required U-value standards. Calculations to document equivalent heat loss shall be performed using the procedure and approved U-values contained in Table 404.1(1)
- b. R-values used in this table are nominal, for the insulation only in standard wood frameed construction and not for the entire assembly.
- c. Wall insulation requirements apply to all exterior wood framed, concrete or masonry walls that are above grade. This includes cripple walls and rim joist areas. R-19 advanced Frame or 2x4 wall with rigid inulation may be substituted if total nominal insulation R-value is 18.5 or greater.
- e. Below-grade wood, concrete or masonry walls include all walls that are below grade and do not include those portions of such walls that extend
- more than 24 inches above grade. f. Insulation levels for ceilings that have limited attic/rafter depth such as dormers, bay windows or similar featrues totaling not more than 150 squaur feet in area may be reduced to not less than R-21. when reduced, the cavity shall be filled (except for required vent spaces)
- g. The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated space floor area unless area has a U-factor no greater than U-0.031. The U-factor of 0.042 is representative of a vaulted scissor truss. A 10-inch (254 mm) deep rafter vaulted ceiling with R-30 insulation is U-0,033 and complies with this requirement, not to exceed 50 percent of the total heated space floor area
- i. Sliding glass doors shall comply with window performance requirements. k. Reduced area may not be used as a trade off criterion for thermal performance of any component.
- m. A maximum of 28 square feet of exterior door area per dwelling unit can have a
- n. Glazing that is either double pane with low-e coating on one surface, or triple pane shall be deemed to comply with this u-.40 requirement.

TABLE N1101.1(2)

	ADDITIONAL MEASURES
1	High efficiency walls & windows: Exterior walls—U-0.047/R-19+5 (insulation sheathing)/SIPS, and one of the following options: Windows—Max 15 percent of conditioned area; or Windows—U-0.30
	High efficiency envelope:
Measure (Select One)	Exterior walls—U-0.058/R-21 Intermediate framing, and Vaulted ceilings—U-0.033/R-30A ^{d,e} , and Flat ceilings—U-0.025/R-49, and Framed floors—U-0.025/R-38, and Windows—U-0.30; and Doors—All doors U-0.20, or Additional 15 percent of permanently installed lighting fixtures as high-efficacy lamps or Conservation Measure D and E
<u> </u>	High efficiency ceiling, windows & duct sealing: (Cannot be used with Conservation Measure E)
ement	Vaulted ceilings—U-0.033/R-30A ^{d,e} , and Flat ceilings—U-0.025/R-49, and Windows—U-0.30, and Performance tested duct systems ^b
Ĭ.	High efficiency thermal envelope UA:
	Proposed UA is 15% lower than the Code UA when calculated in Table N1104.1(1)
Envelope Enhancement	Building tightness testing, ventilation & duct sealing: A mechanical exhaust, supply, or combination system providing whole-building ventilation rates specified in Table N1101.1(3), or ASHRAE 62.2, and The dwelling shall be tested with a blower door and found to exhibit no more than 1.6.0 air changes per hour, or 2.5.0 air changes per hour when used with Conservation Measure E, and Performance tested duct systems
	Ducted HVAC systems within conditioned space: (Cannot be used with Conservation Measure B or C)

6	Ducted HVAC systems within conditioned space: (Cannot be used with Conservation Measure B or C) All ducts and air handler are contained within building envelope
	High efficiency HVAC system:
A	Gas-fired furnace or boiler with minimum AFUE of 90% a, or Air-source heat pump with minimum HSPF of 8.5 or Closed-loop ground source heat pump with minimum COP of 3.0
В	Ducted HVAC systems within conditioned space: All ducts and air handler are contained within building envelope
	Ductless heat pump:

HSPF of 8.5. Unit shall not have integrated backup resistance heat, and the unit (or units, if more than one is installed in the dwelling) shall be sized to have capacity to meet the entire dwelling design heat loss rate at outdoor design temperature condition. Conventional electric resistance heating may be provided for any secondary zones in the dwelling. A packaged terminal heat pump (PTHP) with comparable efficiency ratings may be used when no supplemental zonal heaters are installed in the building and integrated backup resistant heat is allowed in a PTHP High efficiency water heating & lighting:

Replace electric resistance heating in at least the primary zone of dwelling with at least one ductless mini-split heat pump having a minimum

- Natural gas/propane, on-demand water heating with min EF of 0.80, and A minimum 75 percent of permanently installed lighting fixtures as CFL or linear fluorescent or a min efficacy of 40 lumens per watt as specified in Section N1107.26 Energy management device & duct sealing:
- Whole building energy management device that is capable of monitoring or controlling energy consumption, and Performance tested duct systems^b, and
- A minimum 75 percent of permanently installed lighting fixtures as high-efficacy lamps Solar photovoltaic: Minimum 1 watt/sq ft conditioned floor space⁸
- Solar water heating: Minimum of 40 ft² of gross collector area^h RESIDENTIAL SPECIALTY CODE BOOK IN SECTIONS:
 - a. Pumaces located within the building envelope shall have sealed combustion air installed. Combustion air shall be ducted directly from the outdoors. Documentation of Performance Tested Ductwork shall be submitted to the b Department of Energy's (ODOE) Residential Energy Tax Credit program and documentation shall be provided that work demonstrates conformance to ODOE duct performance standards. Section N1107.2 requires 50 percent of permanently installed lighting fixtures to contain high efficacy lamps. Each of these additional measures adds an additional percent to the Section N1107.2 requirement.
 - d. A = advanced frame construction, which shall provide full required ceiling insulation value to the outside of exterior walls. The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated space floor area unless vaulted area has a U-factor no greater than U-0.026. . Building tightness test shall be conducted with a blower door depressurizing the dwelling 50 Pascal's from ambient conditions. Documentation of blower door depressurizing the dwelling 50 Pascal's from ambient conditions.
 - the Building Official upon completion of work. . Solar electric system size shall include documentation indicating that Total Solar Resource Fraction is not less than 75 percent.
 - . Solar water heating panels shall be Solar Rating and Certification Corporation (SRCC) Standard OG-300 certified and labeled, with documentation indicating that Total Solar Resource Fraction is not less than 75 percent.
 - . A total of 5 percent of an HVAC systems ductwork shall be permitted to be located outside of the conditioned space. Ducts located outside the conditioned space shall have insulation

SECTION N1107 A MINIMUM OF FIFTY PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE COMPACT OR LINEAR FLUORESCENT, OR A LIGHTING SOURCE THAT HAS A MINIMUM EFFICACY OF 40 LUMENS PER SCREW-IN COMPACT FLORESCENT LAMPS

For SI: 1 square foot = 0.093 m^2 . 1 watt per square foot = 10.8 W/m^2 .

COMPLY WITH THIS REQUIREMENT THE BUILDING OFFICIAL SHALL BE NOTIFIED IN WRITING AT THE FINAL ISPECTION THAT A MINIMUM OF FIFTY PERCENT OF THE PERMANENTLY INSTALLED

IGHTING FIXTURES ARE COMPACT PR

LINEAR FLUORESCENT, OR A MINIMUM

EFFICACY OF 40 LUMENS PER INPUT WAT **APPENDIX**

RADON CONTROL METHODS (ABRIDGED - SEE CODE SECTION FOR FULL DETAILS)

AFIØ32 Subfloor preparation. A layer of gas-permeable material shall be placed under all concrete slabs and other floor systems that directly contact the ground and are within the walls of the living spaces of the building.

 A uniform layer of clean aggregate, a min. of 4 inches thick (see code section for additional info) AFIØ3.3 Soil-gas-retarder. A minimum 6-mil 34or 3-mil

cross-laminated polyethylene or equivalent flexible sheeting material shall be placed on top of the gas-permeable layer

AFIØ3.4 Entry routes. Potential radon entry routes shall be closed in accordance with Sections AFIØ3.4.1 through AFIØ3.4.10. (See code section for further details) AFIØ3.5 Crawl space mitigation system. In buildings with crawl space foundations, a system complying with AFIØ3.5.1 or AFIØ3.5.2 shall be installed during construction.

Exception: Buildings in which an approved mechanical crawl space ventilation system or other equivalent system is installed. AFIØ3.5.1.1 (PASSIVE METHOD) Ventilation, Crawl spaces shall be provided with vents to the exterior of the building The minimum

net area of ventilation openings shall comply with Section R408

AFI03.5.1.2 Soil-gas-retarder. The soil in crawl spaces sha be covered with a continuous layer of minimum 6-mil (0.15 mm) polyethylene soil-gas-retarder as per code section (min 12* lap)

AFIØ3.5.1.3 Vent pipe. A plumbing tee or other approved connection shall be inserted horizontally beneath the sheeting and connected to a 3- or 4-inch-diameter (76 mm or 102 mm) fitting with a vertical vent pipe installed through the sheeting as per code section to min 12' above roof suface

AFIØ352 (ACTIVE METHOD) Crawl space ventilation and building tightness. As an alternate method to Passive method. Requires non closable fdn vents, and whole house centilation system (air exchange) (see code section AFIØ3.5.2 for specification

AFIØ3.6.1 Vent pipe. A minimum 3-inch-diameter (76 mm) ABS, PVC or equivalent gas-tight pipe shall be embedded vertically into the sub-slab aggregate (see

AFIØ3.6.2 - AFIØ3.10 see code section for these reauirements

AFIØ3.11 Building depressurization. Joints in air ducts and plenums in unconditioned spaces shall meet the requirements of Section MI601. Thermal envelope air infiltration requirements shall comply with the energy conservation provisions in Chapter II. Firestopping sha meet the requirements contained in Section R6028. AFIØ3.12 Power source. To provide for future installation of an active sub-membrane or sub-slab

depressurization system, an electrical circuit terminate in an approved box shall be installed during construction in the attic or other anticipated location of vent pipe fans. An electrical supply shall also be accessible in anticipated located of system failure

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