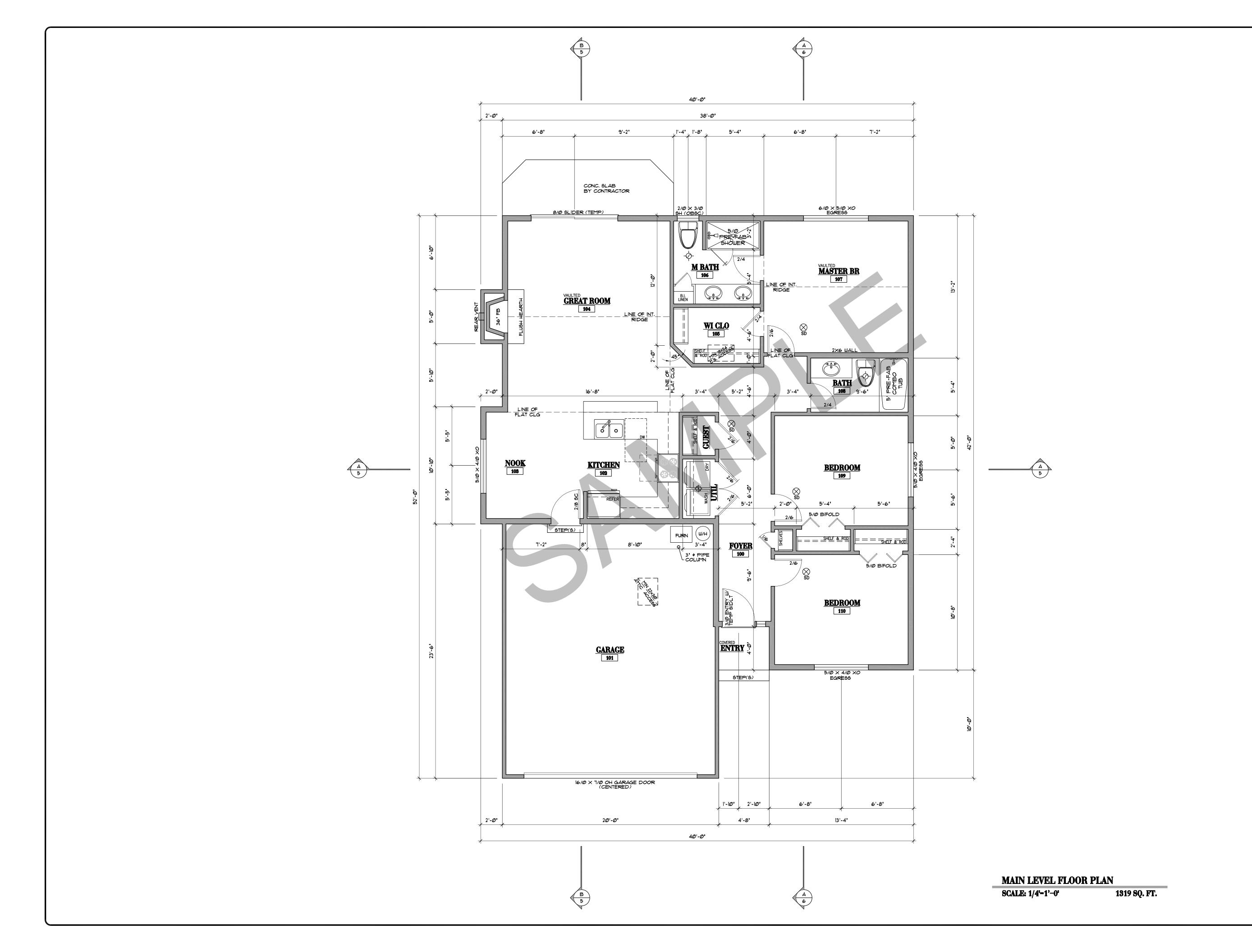


120209

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PLEASE SEE YOUR LICENSE AGREEMENT FOR
FURTHER INFORMATION.

PLAN NR: <u>120209</u> JOB NAME: <u>THE GLENCOE</u>





HHE GLEN

D E S I G N • I N C .

16865 Boones Ferry Road, Suite 202, Lake Oswego, Oregon 97035

Tel: (503) 624 0555• Fax: (503) 624 0155

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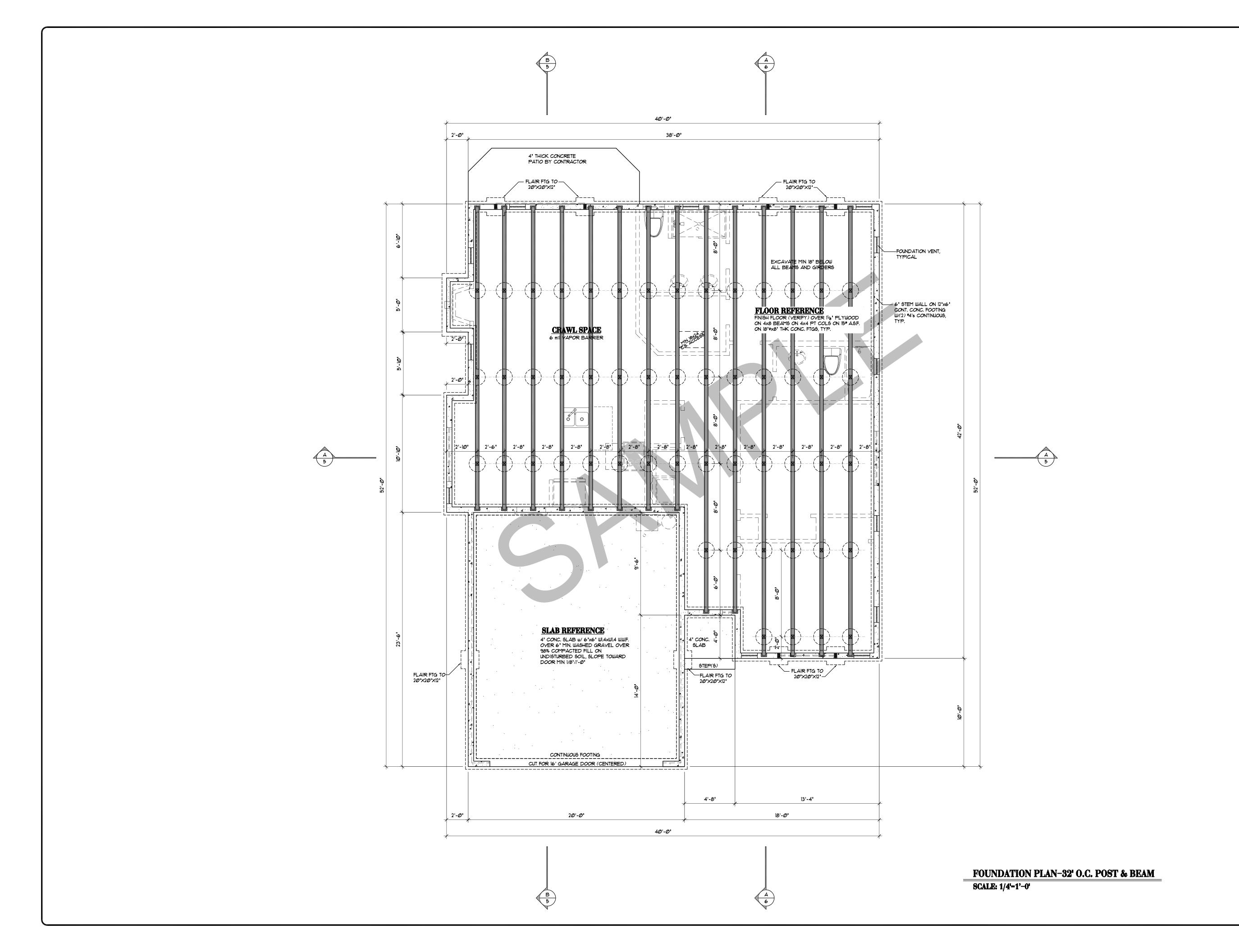
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JOB NAME: <u>THE GLENCOE</u>

DATE: <u>12/09</u>

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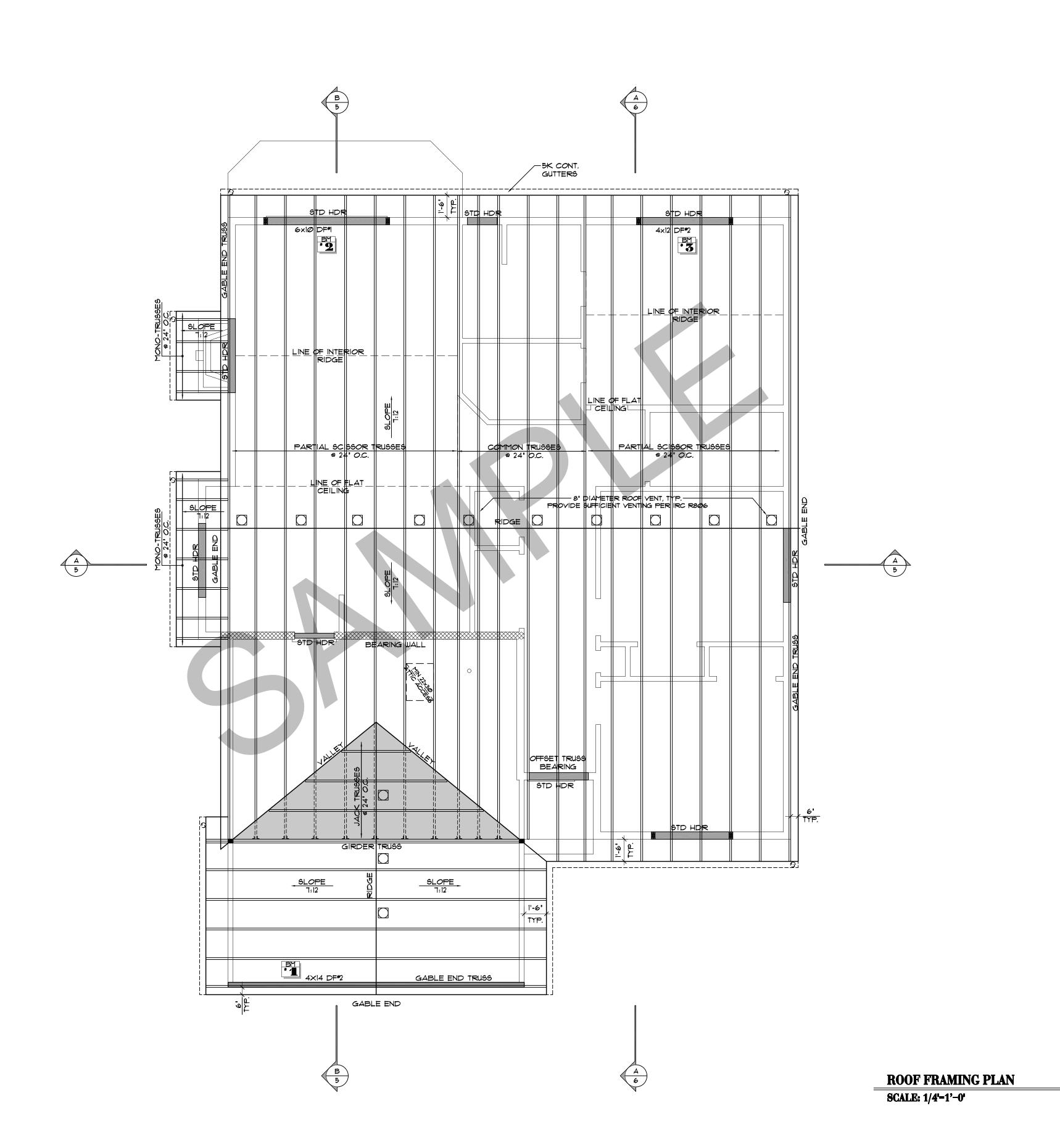


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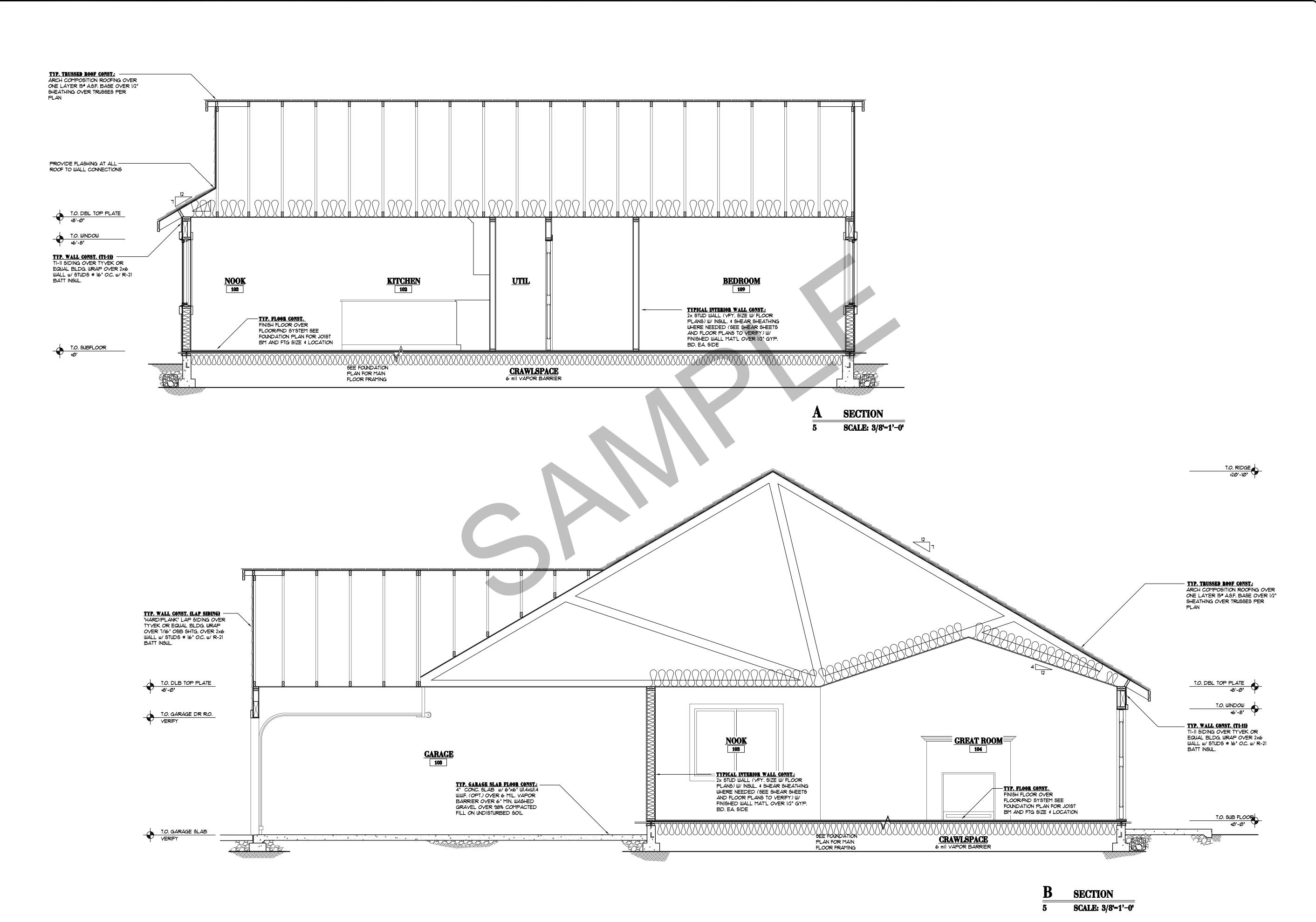
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Boones Ferry Road, Suite 202, Lake Oswego, Oregon 97035

Tel: (503) 624 0555 Fax: (503) 624 0155

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PLAN NR: <u>120209</u>

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PLAN NR: <u>120209</u>

SCALE: 3/8'=1'-0'

JOB NAME: <u>THE GLENCOE</u>

DATE: <u>12/09</u>



LATERAL BRACING NOTES

- 1. SEE 'O' SHEETS FOR NOTES & DETAILS
- 2. ALL W PANELS TO BE 27' UNO ALL GB PANELS TO BE 48' UNO (SHEATH BOTH SIDES)
- 3. EXTERIOR OF THE HOUSE TO BE SHEATHED W/ MIN 3/8"

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PLAN NR: <u>120209</u>

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TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF	BUILDING ELEMENTS	NO. & TYPE OF FASTENER a, b, c			
		ROOF				
1	BLOCKING BETWEEN JOISTS OF	R RAFTERS TO TOP PLATE, TOE NAIL	3-8d			
2	CEILING JOISTS TO PLATE, TOE	NAIL	3-8d			
3		TO PARALLEL RAFTER, LAPS OVER	3-1Ød			
	PARTITIONS, FACE NAIL	ONS, FACE NAIL				
4	·	L OR 14"x20 GAG RIDGE STRAP	3-10d			
5	RAFTER TO TOP PLATE, TOE N.		2-16d			
6	ROOF RAFTERS TO RIDGE, VAL TOE NAIL	LET OR HIP RAFIERS:	4-16d			
	FACE NAIL		3-16d			
		WALL				
7	BUILT-UP CORNER STUDS		10d	24" O.C.		
	BUILT-UP HEADER, TWO PIECES	S HITH 1/2' SPACER	16d	16" O.C. ALONG EA. EDG		
9	CONTINUED HEADER, TWO PIECE		16d	16' O.C. ALONG EA. EDG		
9	CONTINUED HEADER TO STUD,		4-8d			
	DOUBLE STUDS, FACE NAIL	IOE NAIL		241.00		
11	· · · · · · · · · · · · · · · · · · ·	1	10d	24' O.C.		
12	DOUBLE TOP PLATE, FACE NAI		100d	24" O.C.		
13	DOUBLE TOP PLATES, MIN 24" LAPPED AREA	OFFSET OF END JOINTS, FACE NAIL IN	8-16d ^J			
14	•	DECK OR BLOCKING, FACE NAIL	16d	16" O.C.		
	<u>'</u>	DECK OR BLOCKING AT BRACED				
15	WALL PANELS		3-16d PER 16'			
			3-8d			
16	STUD TO SOLE PLATE, TOE NAI	L	OR 2-16d			
17	TOP OR SOLE PLATE TO STUD	END NAIL	2-16d			
18	TOP PLATES, LAPS AT CORNER		2-10d			
10	TOT TEATES, EAT OF AT SOLUTE	T THE TOLONO, I AGE TAIL	2-8d			
19	I' BRACE TO EACH STUD & PLA	ATE, FACE NAIL	2 STAPLES 134"			
2.0	The A College to EACH DE A	DING FACE MAIL	2-8d			
20	1'x6' SHEATHING TO EACH BEA	RING, FACE NAIL	2 STAPLES 134"			
21	1'X8' SHEATHING TO EACH BEA	RING, FACE NAIL	2-8d			
			3 STAPLES 134" 3-8d			
22	WIDER THAN 1"X8" SHEATHING T	4 STAPLES 134"]			
		FLOOR				
	LOIST TO SILL OF SIDDED TO			1		
23	JOIST TO SILL OR GIRDER, TOE	: NAIL	3-8d			
24	1x6" SUBFLOOR OR LESS TO EA	ACH JOIST, FACE NAIL	2-8d 2 STAPLES 1 ³ 4"			
25	2" SUBFLOOR TO JOIST OR GIR	DER BLIND AND FACE NAIL	2-16d			
26		NAIL (ROOF APPLICATIONS ALSO)	8d	6' O.C.		
27	2" PLANKS (PLANK & BEAM - F		2-16d	AT EACH BEARING		
		S 2'IIMBER AYERS	1@d	NAIL EACH LAYER: 32' O.C. AT TOP & BOTTO		
28	BUILT-UP GIRDERS AND BEAM		190	STAGGERED. TWO NAILS ENDS & EA. SPLICE.		
	DESCRIPTION OF					
	DESCRIPTION OF	DESCRIPTION OF	SPACINO EDGES	ENDS & EA. SPLICE. OF FASTENER INTERMEDIATE		
	DESCRIPTION OF BUILDING MATERIALS WOOD STRUCTURAL PANE	DESCRIPTION OF FASTENER ^{b, c, e} Els, subfloor, roof & interior i	SPACINO EDGES (INCHES) ¹ :	ENDS & EA. SPLICE. OF FASTENER INTERMEDIATE SUPPORTS C. S (INCHES		
TEM	DESCRIPTION OF BUILDING MATERIALS WOOD STRUCTURAL PANE AND PA	DESCRIPTION OF FASTENER ^{b, c, e} ELS, SUBFLOOR, ROOF & INTERIOR I RTICLE BOARD WALL SHEATHING	SPACING EDGES (INCHES)' WALL SHEATHING TO TO FRAMING	ENDS & EA. SPLICE. OF FASTENER INTERMEDIATE SUPPORTS C. C (INCHES) FRAMING		
	DESCRIPTION OF BUILDING MATERIALS WOOD STRUCTURAL PANE	DESCRIPTION OF FASTENER ^{b, c, e} Els, subfloor, roof & interior i	SPACINO EDGES (INCHES) ¹ :	ENDS & EA. SPLICE. OF FASTENER INTERMEDIATE SUPPORTS C, C (INCHESTE AMING)		
TEM	DESCRIPTION OF BUILDING MATERIALS WOOD STRUCTURAL PANE AND PA	DESCRIPTION OF FASTENER ^{b, c, e} ELS, SUBFLOOR, ROOF & INTERIOR U RTICLE BOARD WALL SHEATHING GO COMMON NAIL (SUBFLOOR WALL)	SPACING EDGES (INCHES)' WALL SHEATHING TO TO FRAMING	ENDS & EA. SPLICE. OF FASTENER INTERMEDIATE SUPPORTS C. C (INCHE) FRAMING		
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3 <i>0</i> 31 32	DESCRIPTION OF BUILDING MATERIALS WOOD STRUCTURAL PANE AND PA 1/6' - 1/2' 19/32' - 1' 11/6' - 11/4'	DESCRIPTION OF FASTENER b, c, e ELS, SUBFLOOR, ROOF & INTERIOR U RETICLE BOARD WALL SHEATHING 6d COMMON NAIL (SUBFLOOR WALL) 8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL OTHER WALL SHEATHING	SPACING EDGES (INCHES) ¹ WALL SHEATHING TO TO FRAMING 6 6 6	ENDS & EA. SPLICE. OF FASTENER INTERMEDIATE SUPPORTS C. S (INCHES FRAMING 129 129		
3Ø 3I	DESCRIPTION OF BUILDING MATERIALS WOOD STRUCTURAL PANE AND PA	DESCRIPTION OF FASTENER b, c, e ELS, SUBFLOOR, ROOF & INTERIOR L RTICLE BOARD WALL SHEATHING 6d COMMON NAIL (SUBFLOOR WALL) 8d COMMON NAIL (ROOF) 6d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 8d DEFORMED NAIL	SPACING EDGES (INCHES) WALL SHEATHING TO TO FRAMING 6 6 6	ENDS & EA. SPLICE. OF FASTENER INTERMEDIATE SUPPORTS C. S (INCHES FRAMING 129 129		
3 <i>Ø</i> 31 32	DESCRIPTION OF BUILDING MATERIALS WOOD STRUCTURAL PANE AND PA 1/2" - 1/2" 19/32" - 1" 11/2" - 11/4"	DESCRIPTION OF FASTENER b, c, e FLS, SUBFLOOR, ROOF & INTERIOR UNITERICE BOARD WALL SHEATHING: GO COMMON NAIL (SUBFLOOR WALL) BO COMMON NAIL (ROOF); BO COMMON NAIL IPO COMMON NAIL OR BO DEFORMED NAIL OTHER WALL SHEATHING; 12" GALY. ROOFING NAIL, 1/16" CROWN OR I" CROWN STAPLE 16 GA., 11/4" LONG 194" GALY. ROOFING NAIL, 1/16" CROWN OR I" CROWN STAPLE 16 GA., 11/4" LONG	SPACING EDGES (INCHES) WALL SHEATHING TO TO FRAMING 6 6 6 7 OR 3 3	ENDS & EA. SPLICE. FASTENER INTERMEDIATE SUPPORTS C. C (INCHES) FRAMING: 128 129 129		
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FOR SI: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MPH = 0.447 M/S - 1 ksi=6.895 MPa.

- a. ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192" (2013 COMMON NAIL), 90 KeI FOR SHANK DIAMETERS LARGER THAN 0.142" BUT NOT LARGER THAN Ø.177, AND 100 KSI FOR SHANK DIAMETERS OF Ø.142" OR LESS.
- 6. STAPLES ARE 16 GAUGE WIRE AND HAVE A MINIMUM T/16' ON DIAMETER CROWN WIDTH. C. NAILS SHALL BE SPACED AT NOT MORE THAN 6' O.C. AT ALL SUPPORTS WHERE SPANS ARE 48' 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.
- 7. FOR REGIONS HAVING BASIC WIND SPEED OF LESS THAN 110 MPH, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FARMING SHALL BE SPACE 6" O.C. WHEN BASIC WINDOW SPEED IS GREAT 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.
- 1. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO 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 FASTENERS 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 EXCEPT AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID
- J. INTERIOR NON-BRACED WALL LINES MAY BE NAILED WITH A MINIMUM 4-100 NAILS.

TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES

MINIT	MUM NAIL	MINIMUM WOOD	NOMINAL WALL		PANEL NAIL SPACING		MAXIMUM WIND SPEED (mph)		
SIZE	PENETRATION		PANEL STUD THICKNESS SPACING	EDGES	FIELD	WIND EXPOSURE CATEGORY			
SIZE	(INCHES)	RATING	(INCHES)		(INCHES O.C.)	(INCHES O.C.)	В	U	D
6d COMMON	1.5	24/Ø	3/8	16	6	12	110	90	85
8ය	1.75	24/16	7/16	16	6	12	13Ø	110	105
COMMON	1.19	24/16	17110	24	6	12	110	90	85
FOR SI: 1 IN	FOR SI: 1 INCH = 25.4 MM, 1 MPH = 0.447 M/S								

- 3. PANEL STRENGTH AXIS PARALLEL OR PERPENDICULAR TO SUPPORTS. THREE-PLY PLYWOOD SHEATHING WITH STUDS SPACED MORE THAN 16" O.C. SHALL BE APPLIED WITH PANEL STRENGTH AXIS PERPENDICULAR TO SUPPORTS.
- D. TABLE 19 BASED ON WIND PRESSURES ACTING TOWARD AND AWAY FROM BUILDING SURFACES PER SECTION R3/01.2. LATERAL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION R602.10.
- 2. 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 1600 OR 2400 SHALL BE PERMITTED AS AN ALTERNATE TO PANELS WITH A 24/16 SPAN RATING. WALL-16 AND PLYWOOD SIDING 1600 SHALL BE USED WITH STUDS SPACE A MAXIMUM OF 16' ON CENTER

PRESCRIPTIVE PATH LEGEND METHOD OF MIN. REQ'D CONNECTION CRITERIA 6d COMMON NAILS @ 6" O.C. AT PANEL EDGES & 12" O.C. AT INTERMEDIATE SUPPORTS 6d COMMON NAILS @ 6" O.C. CS-G AT PANEL EDGES \$ 12" O.C. AT INTERMEDIATE SUPPORTS SEE DETAIL 2/0 CS-PF 7/16" SEE PLAN FOR REQ'D STRAPS SEE DETAIL 5/0 SEE PLAN FOR REQ'D HOLD-DOWNS SEE DETAIL 1/0 SEE PLAN FOR REQ'D HOLD-DOWNS NAILS OR SCREWS^a @ 7" O.C. BOTH SIDES AT EDGES OF WALL

a. NAILS: 13 GAGE, 134" LONG, 19/64" HEAD OR 0.098" DIAMETER, 14" LONG, ANNULAR-RINGED OR 5d COOLER NAIL, 0.086" DIAMETER, 15/64" HEAD OR GYP BD NAIL, 0.086" DIAMETER, 15/8" LONG, 9/32" HEAD

SCREWS: SCREWS SHALL BE TYPE S OR W AND PENETRATE INTO WOOD FRAMING MIN %".

TABLE R602.10 NTERMITTENT WALL BRACING METHODS

LIE	3	LET IN BRACING	
DW	3	DIAGONAL WOOD BOARDS	
WSF	•	WOOD STRUCTURAL PANELS	
SFE	3	STRUCTURAL FIBERBOARD SHEATHING	
GE	3	GYPSUM BOARD	
PB	9	PARTICLEBOARD SHEATHING	
PCI	•	PORTLAND CEMENT PLASTER	
HP	3	HARDBOARD PANEL SIDING	
ABI	M	ALTERNATE BRACED WALL	
PFI	4	INTERMITTENT PORTAL FRAME	
PFC	3	INTERMITTENT PORTAL FRAME AT GARAGE	

TABLE R602.10.4.1 CONTINUOUS SHEATHING METHODS CS-WP WOOD STRUCTURAL PANELS CS-G WSP NEXT TO GARAGE DOOR OPENING

CONTINUOUS PORTAL FRAME

___LL____

FOR PANEL

NEEDED): PANEL

-8d COMMON OR GALY. BOX NAILS

@ 6' O.C. EDGES

STORIES: 4" O.C.)

-8d COMMON OR

9 12" O.C. AT

SUPPORTS

(2) 1/2" + A.B.

PANEL

LOCATED BETWEEN

FIGURE R602.10.3.2

6" \$ 12" OF EACH

-END OF BRACE

INTERMEDIATE

GALY. BOX NAILS

(FOR FIRST OF 2

SPLICE (IF

EDGES ON

COMMON

FRAMING

MIN. 36" THICK -

MIN 2x4 FRM'G,

MIN DBL STUD

STUDS UNDER -

HOLD-DOWN -

ANCHOR PER

MIN. *4 REBARD

TOP & BOTTOM,

O / SCALE: NTS

LAP MIN 15"

OR STRAP-TYPE

HDR AS REQ'D

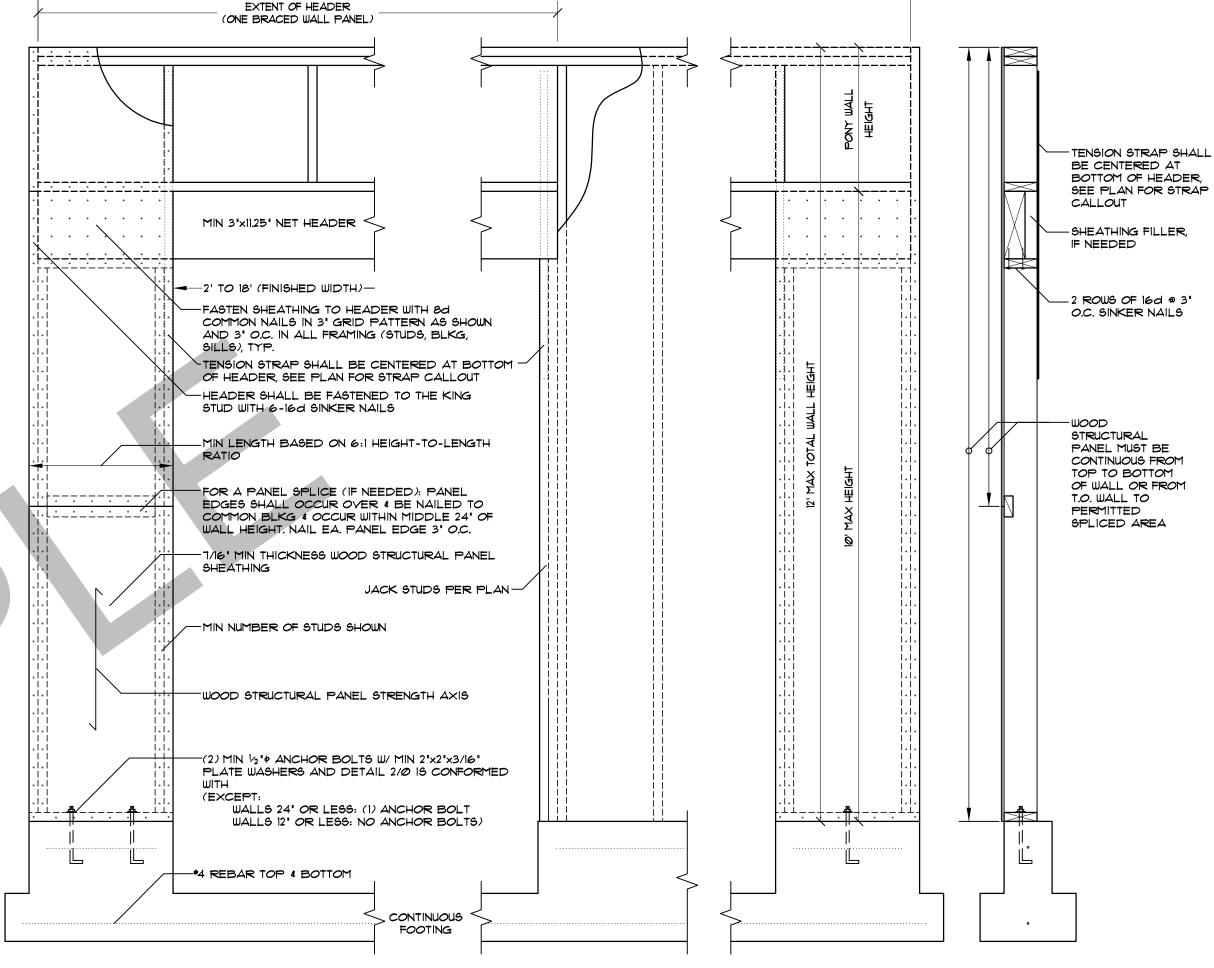
ONE SIDE

REQ'D

WOOD STRUCTURAL

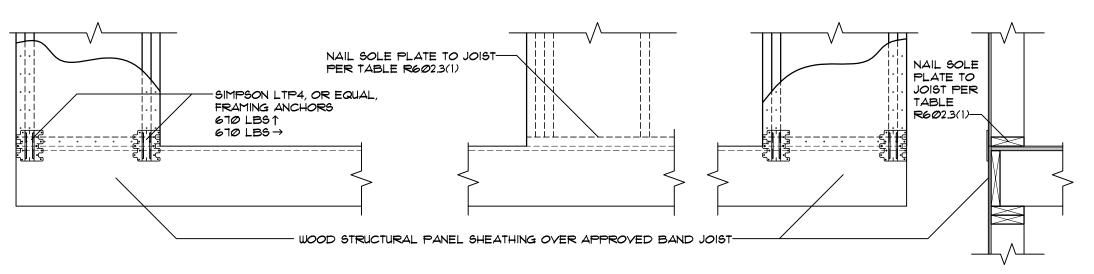
PANEL SHEATHING,

CS-PF

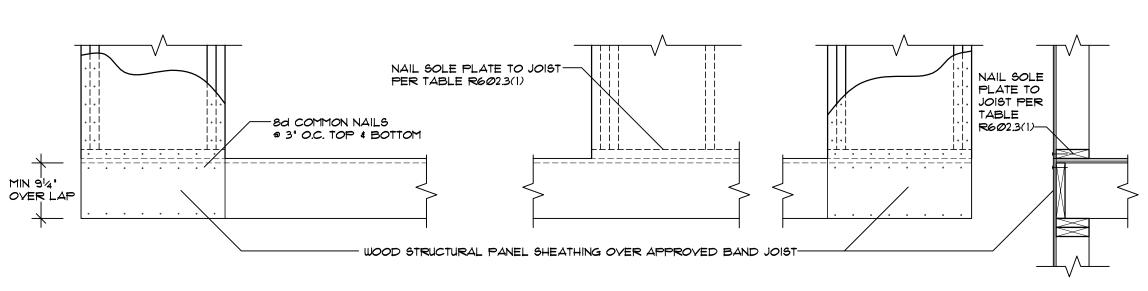


EXTENT OF HEADER (TWO BRACED WALL PANELS)

OVER CONCRETE OR MASONRY BLOCK FOUNDATION

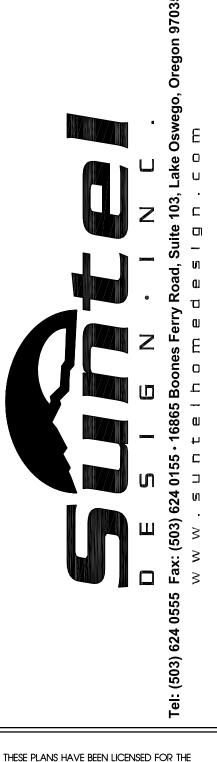


OVER RAISED WOOD FLOOR OR SECOND FLOOR — FRAMING ANCHOR OPTION



OVER RAISED WOOD FLOOR OR SECOND FLOOR — WOOD STRUCTURAL PANEL OVERLAP OPTION

CONTINUOUS PORTAL FRAME CONSTRUCTION 2 Ø / SCALE: NTS FIGURE R602.10.4.1.1



WORK WILLFULLY INFRINGED. THESE PLANS HAVE BEEN PREPARED TO MEET CABO BUILDING CODES AND MAY REQUIRE ADAPTATION TO MEET SPECIFIC SITE CONDITIONS AND LOCAL BUILDING REGULATIONS, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION FOR ERRORS AND OMISSIONS. PLEASE SEE YOUR LICENSE AGREEMENT FOR FURTHER INFORMATION.

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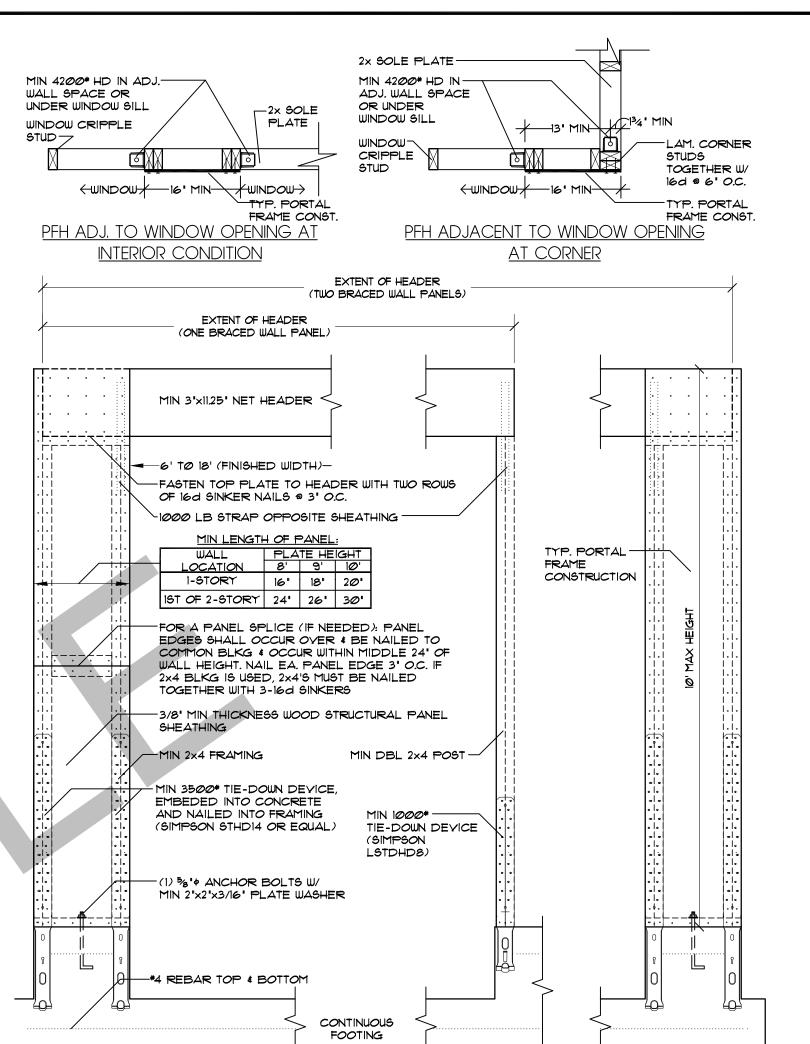
INCLUDE PENALTIES OF UP TO \$100,000 PER

SHEET: PRES. PATH DETAILS

DATE: <u>09/11</u>

THESE PLANS HAVE BEEN LICENSED FOR THE CONSTRUCTION OF ONE BUILDING ONLY. UNAUTHORIZED USE OR COPYING OF THE PLANS, OR THE DESIGN THE DEPICT, INFRINGES RIGHTS UNDER THE COPYRIGHT ACT THAT INCLUDE PENALTIES OF UP TO \$100,000 PER WORK WILLFULLY INFRINGED. THESE PLANS HAVE BEEN PREPARED TO MEET CABO BUILDING CODES AND MAY REQUIRE ADAPTATION TO MEET SPECIFIC SITE CONDITIONS AND LOCAL BUILDING REGULATIONS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION FOR ERRORS AND OMISSIONS. PLEASE SEE YOUR LICENSE AGREEMENT FOR FURTHER INFORMATION.

SHEET: PRES. PATH DETAILS DATE: <u>09/11</u>





ADDITIONAL FRM'G

MEMBER AT BRACED

WALL PANEL

-CONTINUOUS RIM OR

BAND JOIST

- 8d @ 6' O.C.-

ALONG BRACED

WALL PANEL

BRACED WALL -PANEL

- 3-16d @ 16" O.C. —

-CONTINUOUS RIM OR

BAND JOIST

ADDITIONAL FRM'G

MEMBER AT BRACED

WALL PANEL

PARALLEL FRAMING TO BRACED WALL PANEL

ALONG BRACED

WALL PANEL

FULL-HT BLKG @ 16"

O.C. ALONG BRACED

WALL PANEL

TOE NAIL 3-8d

NAILS @ EA. BLKG

3-16d @ 16" O.C.

ALONG BRACED

WALL PANEL

2-16d NAILS-

FULL-HT BLKG @ 16"-

EA. SIDE, TYP.

O.C. ALONG BRACED

WALL PANEL

FIGURE R602.10.4.6(1) \$ (2)



- GYP. BD AS

ORSC CHPT T

REQUIRED AND

INSTALLED AS PER

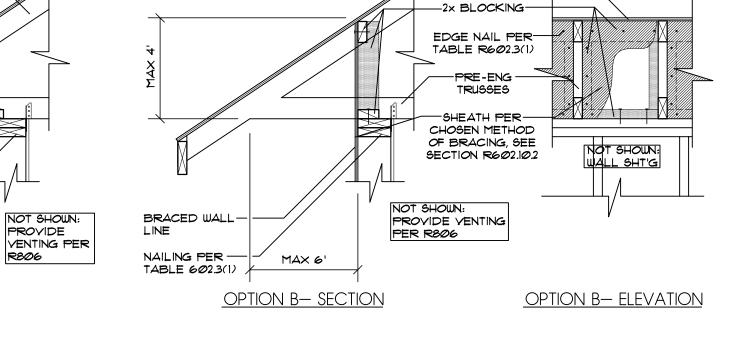
CONTINUOUS WOOD STRUCTURAL PANEL

BRACED WALL LINE

- SEE TABLE R602.3(1)

FOR FASTENER

INSIDE CORNER DETAIL



GYP. BD AS REQUIRED -

AND INSTALLED AS PER

ORSC CHPT T

OPT. BLOCKING-

CONTINUOUS WOOD

STRUCTURAL PANEL

-BRACED WALL LINE

GARAGE DOOR CORNER DETAIL

CORNER FRM'G FOR CONTINUOUS SHE

FOR GYP. BD

SEE TABLE R602.3(1) FOR

-MIN. 24" WOOD STRUCTURAL

—16d NAIL, 2 ROWS @ 24" O.C.

-FASTENERS ON BOTH STUDS

- SEE TABLE R602.3(1) FOR

-OPT. NON-STRUCTURAL

AT EACH PANEL EDGE

PANEL CORNER SHEATHING

ALT STUD -

16d NAIL-

₱ 12 ° O.C.

MIN. 24" WOOD-

FIGURE R602.10.4.4(1)

PANEL SHEATHING

STRUCTURAL

ORIENTATION

FASTENING

FASTENING

ROOF SHT'G -

FILLER PANEL

FIGURE R602.10.6.2(2) \$ (3) SCALE: NTS

SEE TABLE R602.3(1) FOR

-GYP. BD AS

REQUIRED AND

INSTALLED AS

PER ORSC CHPT

-ZONTINUOUS WOOD

STRUCTURAL PANEL

BRACED WALL LINE

3 Ø SCALE: 3/4" = 1'-0"

FASTENING

-ALT STUD

OUTSIDE CORNER DETAIL

ORIENTATION

MIN. 24" WOOD-

RETURN

OPTIONAL

STRUCTURAL PANEL

CORNER SHEATHING

16d NAIL @ 12" O.C.

NON-STRUCTURAL

SEE TABLE R602.3(1)

PRE-ENG TRUSSES -

2× BLOCKING-

SHEATH PER CHOSEN

BRACED WALL LINE

METHOD OF BRACING, SEE SECTION R602.10.2

NAILING PER TABLE 602.3(1)

MAX 6'

<u>OPTION A</u>

ROOF SHEATHING (EDGE NAIL -PER TABLE R602.3(1)), TYP.

FILLER PANEL -

FOR FASTENING

6 Ø SCALE: NTS

FULL-HT BLKG CONT. ALONG LENGTH OF BRACED WALL

-CONTINUOUS RIM OR

BAND JOIST

PERPENDICULAR FRAMING

8d @ 6" O.C. ALONG -

BRACED WALL PANEL

-3-16d @ 16" O.C. ALONG-

BRACED WALL PANEL

PERPENDICULAR FRAMING

- CONTINUOUS RIM OR

BAND JOIST

FULL-HT BLKG CONT.-/

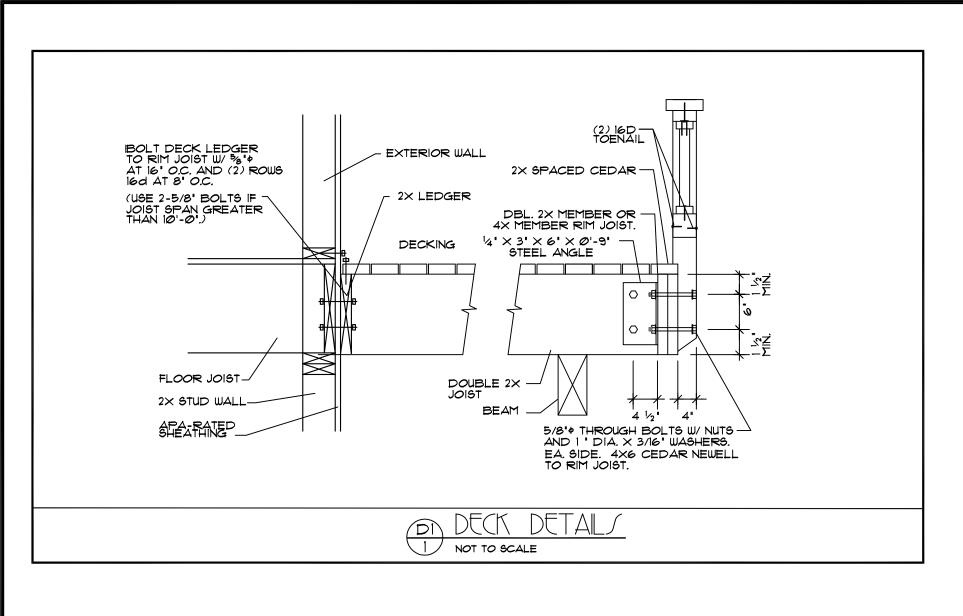
ALONG LENGTH OF

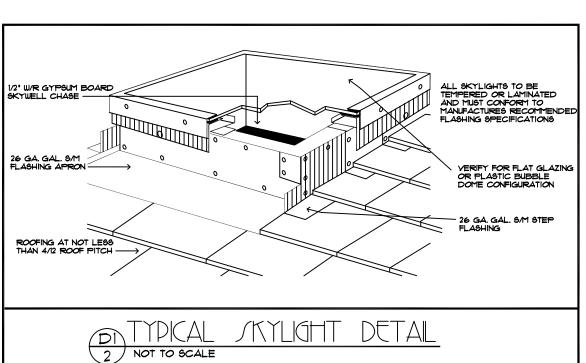
BRACED WALL PANEL

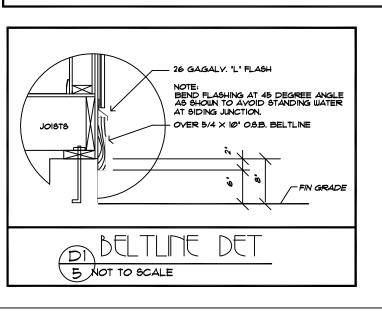
PERPENDICULAR FRAMING TO BRACED

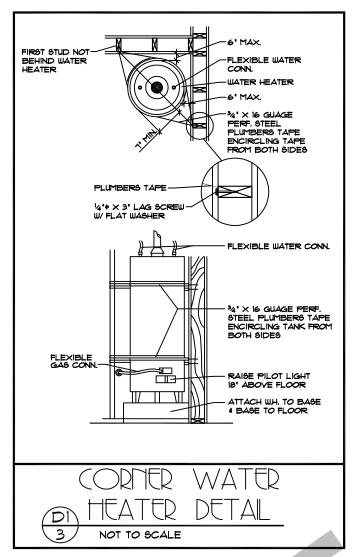
WALL PANEL

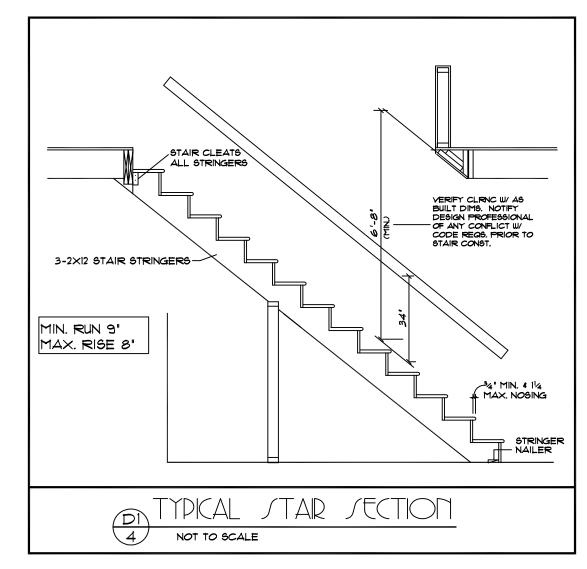
PANEL-

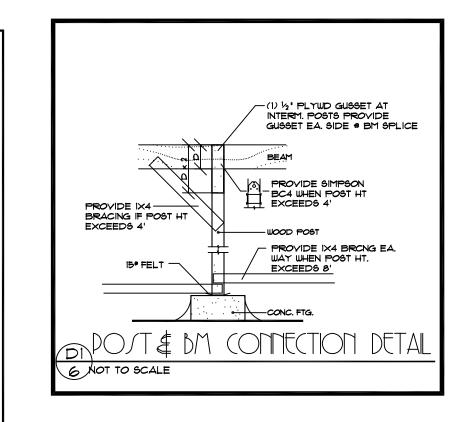


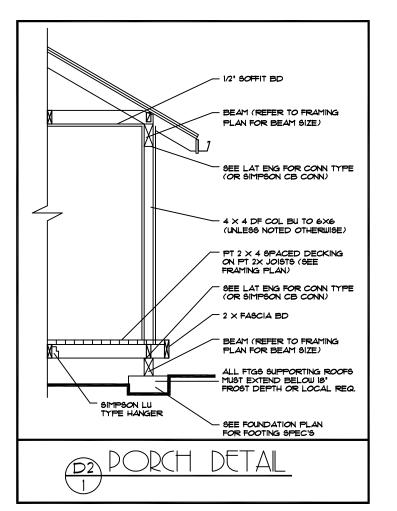


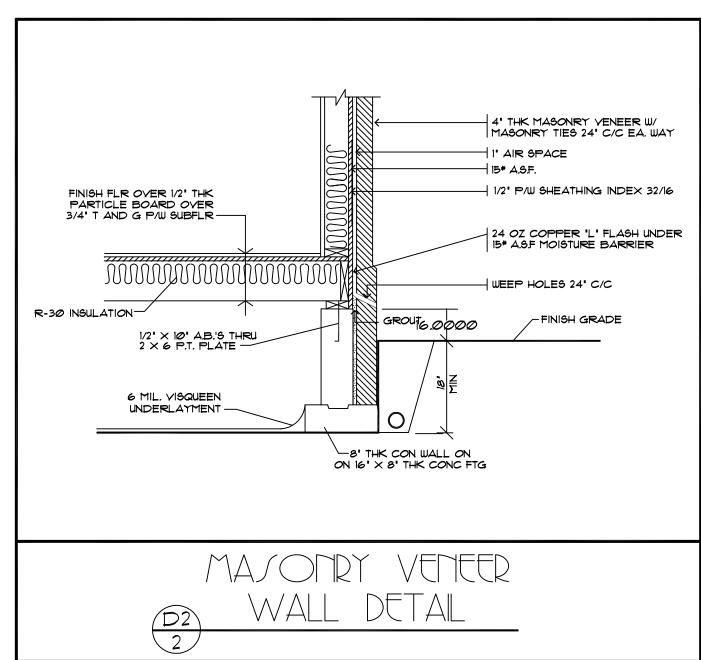


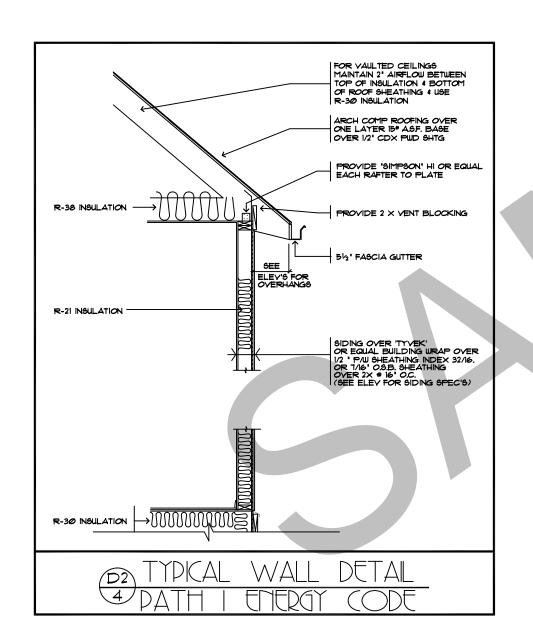


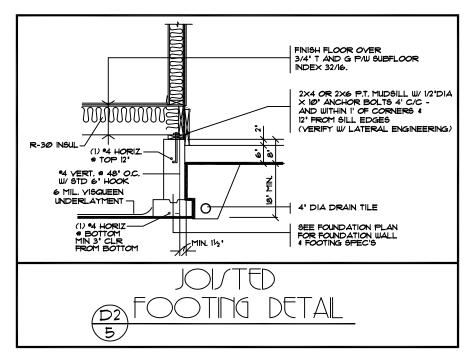


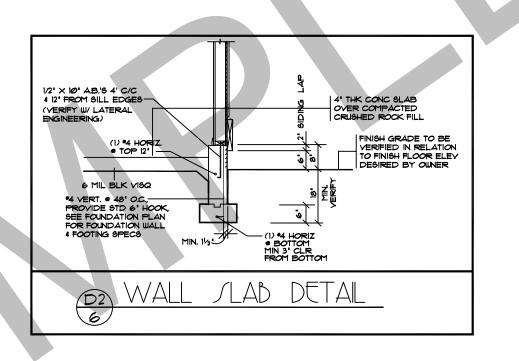


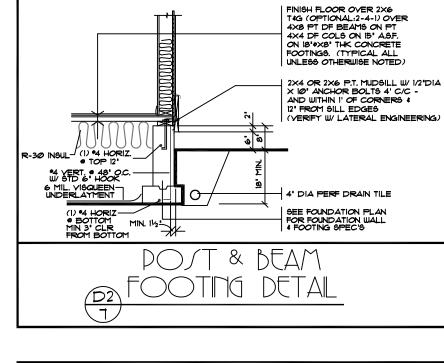


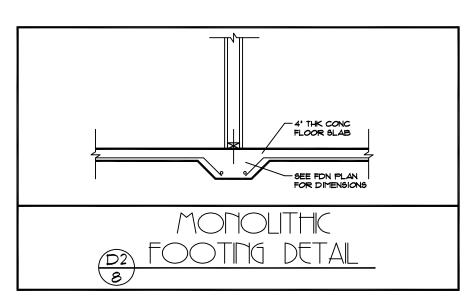


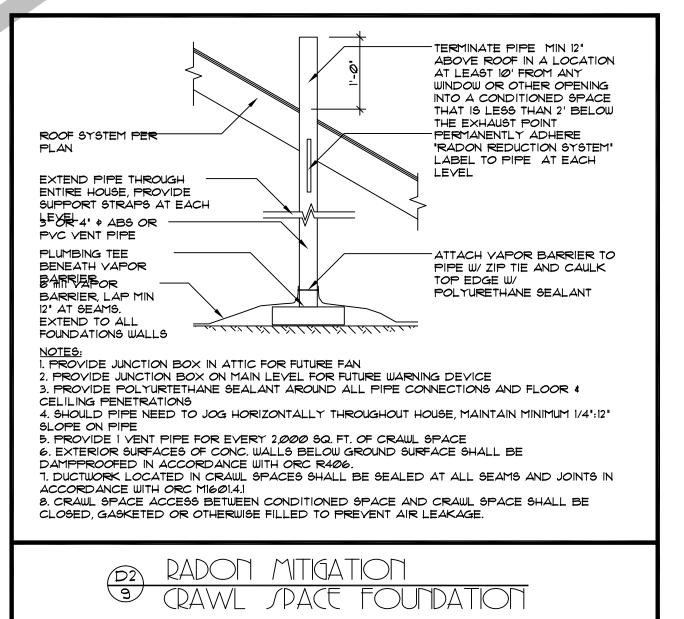


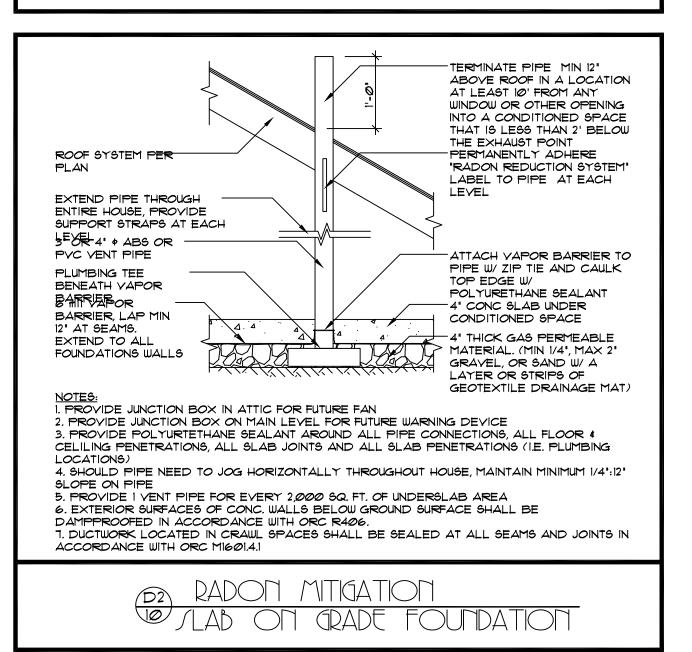














GENERAL NOTES

- ALL WORK IS TO COMPLY WITH THE LATEST ADOPTED VERSION OF THE ORSC CODE AND ANY APPLICABLE
- STATE, COUNTY OR LOCAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS AND IS TO NOTIFY THE DESIGNER OF ANY ERRORS OR
- OMISSIONS PRIOR TO THE START OF CONSTRUCTION. . WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED
- 4. DESIGN LOADS: ROOF 25 PSF (LIVE LOAD) 40 PSF (LIVE LOAD) STAIRS 100 PSF GARAGE FLOOR 125 PSF (2000* PT) DECKS (IF YOUR LOCAL AREA REQUIRES DIFFERENT DESIGN
- LOADS, CONSULT WITH A LOCAL STRUCTURAL ENGINEER TO DETERMINE THE APPROPRIATE REVISIONS.) PROVIDE INSULATION BAFFLES AT EAVE VENTS
- BETWEEN RAFTERS. . ALL SMOKE DETECTORS SHALL BE POWERED BY 110V CURRENT, CONNECTED TO HOUSE ELECTRICAL SYSTEM. INTERCONNECT WITH EACH ONE SO THAT IF ANY ONE TRIPS THEY WILL ALL SOUND. THEY SHALL ALSO HAVE A BATTERY BACKUP AND BE LOCATED IN
- EACH BEDROOM AND ON EACH FLOOR LEVEL.
 GUARDRAILS SHALL HAVE INTERMEDIATE RAILS SPACED
 SUCH THAT A SPHERE 5' IN DIA. CANNOT PASS THROUGH PROVIDE GROUNDING ELECTRODE AT ELECTRICAL SERVICE CONSISTING OF A MINIMUM 20' LENGTH OF 1/2"
- EXTEND 12" MIN. ABOVE THE PLATE LINE. THE MAXIMUM AMOUNT OF WATER USED BY NEW PLUMBING FIXTURES: 1.6 GALLONS/FLUSH
- SHOWER HEADS 2.5 GALLONS/MINUTE INTERIOR FAUCETS 2.5 GALLONS/MINUTE O. IN THE EVENT OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND REFERENCED STANDARDS OF THESE SPECIFICATIONS, THE MORE STRINGENT PROVISIONS SHALL GOVERN. STRUCTURAL SPECIFICATIONS AND DRAWINGS FOR THIS WORK HAVE BEEN PREPARED IN ACCORDANCE WITH
- MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE . SPECIFICATIONS AND DRAWINGS INDICATE FINISHED STRUCTURE, BUILDER SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES, AND CONDITIONS

GENERALLY ACCEPTED ENGINEERING PRACTICE TO MEET

- (INCLUDING SAFETY), EXCEPT AS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS CONSTRUCTION LOADS SHALL NOT OVERLOAD STRUCTURE NOR SHALL THEY BE IN EXCESS OF DESIGN LOADINGS INDICATED ON DRAWINGS.
- 4. BUILDER SHALL VERIFY ALL MATERIALS, DIMENSIONS, AND CONDITIONS SHOWN ON STRUCTURAL DRAWINGS OR NOTED IN STRUCTURAL SPECIFICATIONS. ANY VARIANCES WITHIN STRUCTURAL DRAWINGS AND SPECIFICATIONS, OR WITHIN CONDITIONS ENCOUNTERED AT JOB SITE, BHALL BE REPORTED TO OWNER IN WRITING BEFORE COMMENCEMENT OF ANY WORK EFFECTED BY SUCH VARIANCE.
- . BUILDER SHALL RIGIDLY ADHERE TO ALL LAWS, CODES, AND ORDINANCES WHICH APPLY TO THIS WORK, HE SHALL NOTIFY AND RECEIVE CLARIFICATION FROM OWNER IN WRITING OF ANY VARIATIONS BETWEEN CONTRACT DOCUMENTS AND GOVERNING REGULATIONS.
- 6. ALL MANUFACTURED MATERIALS, COMPONENTS. FASTENERS, ASSEMBLIES, ETC., SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROVISIONS OF APPLICABLE ICBO RESEARCH RECOMMENDATIONS. WHERE SPECIFIC MANUFACTURED PRODUCTS ARE CALLED FOR, GENERIC EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE USED.
- 1. NO VARIANCE BY A BUILDING OFFICIAL SHALL BE BINDING ON DESIGNERS.
- 3. BUILDER SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESS POOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH ITEMS ARE FOUND, OUNER SHALL BE NOTIFIED IMMEDIATELY
- B. CARBON MONOXIDE DETECTORS SHALL BE PROTVDED IN ANY HOME WITH A GAS APPLIANCE ONE SHALL BE LOCATED WITHIN EACH BEDROOM OR WITHIN 15' OR OF EACH BEDROOM DOOR, BEDROOMS ON SEPARATE FLOORS

- 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.
- SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF. ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MINIMUM OF 4' GRANULAR MATERIAL COMPACTED TO 95% 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'. CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' (MAXIMUM) INTERVALS EA, WAY
- CONCRETE SIDEWALKS TO HAVE 3/4" TOOLED JOINTS
- REINFORCING STEEL TO BE A-615 GRADE 40. WELDED WIRE MESH TO BE A-185
- EXCAYATE THE SITE TO PROVIDE A MINIMUM OF 18" CLEARANCE UNDER ALL GIRDERS. COVER ENTIRE CRAWLSPACE WITH 6 MIL BLACK
- "VISQUEEN" AND EXTEND UP FOTN, WALLS TO P.T. MUDSILL. 7. 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 CORROSIVE RESISTANT SCREEN.
- . ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 30* ROLL ROOFING. P. BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE
- AT SIDES AND ENDS WITH A MINIMUM BEARING OF 3". B. 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. S. FOOTINGS SHALL BE FOUNDED ON FIRM, UNDISTURBED, NATIVE, FREE DRAINING SOILS. CONDITIONS FOUND TO BE OTHERWISE SHALL BE REPORTED TO OWNER. B. ALL GROUND OVER WHICH FOOTINGS AND SLABS-ON-
- EXPANSIVE OR COMPRESSIBLE DEBRIS AND ORGANIC Ø. FOOTINGS AND SLABS-ON-GRADE CONCRETE SHALL NOT BE PLACED ON MUDDY OR FROZEN GROUND. SUB-GRADE FOR SLABS-ON-GRADE WHERE VAPOR

OF CONCRETE PLACEMENT.

BARRIER IS NOT REQUIRED SHALL BE DAMP AT TIME

GRADE ARE TO BE PLACED SHALL BE FREE OF

FRAMING NOTES

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. 2b. DOUBLE JOISTS THAT ARE ATTACHED TO FLUSH BMS

ARE TO BE HUNG WITH "SIMPSON" LUS TYPE OR EQUIV

PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL

- PARTITIONS OVER PROVIDE FIREBLOCKING, DRAFTSTOPS & FIRESTOPS AS PER THE ORSC SEC R602.8
- 5. LUMBER SPECIES: A. POSTS, BEAMS, HEADERS JOISTS AND RAFTERS

E. PLYWOOD SHEATHING

NO.2 DOUG FIR B. SILLS, PLATES, BLOCKING NO.3 DOUG FIR STUD GRADE D.F. D. POST AND BEAM DECKING UTILITY GRADE D.F.

1/2" CDX PLY, 32/16

fb-2400, DRY ADH.

F. GLU-LAM BEAMS . NAILING SCHEDULE

BRIDGING, ETC. C. STUDS

NOTCHES IN SOLID LUMBER JOISTS, RAFTERS, AND BEAMS SHALL NOT EXCEED ONE-SIXTH OF THE DEPTH OF THE MEMBER, SHALL NOT BE LONGER THAN ONE-THIRD OF THE 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 OF 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

ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE

- MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2" (51mm) TO THE NOTCH. 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 THAT 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. INSTALL ALL HORIZONTAL MEMBERS WITH CROWN UP. D. 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. ALL JOISTS SHALL HAVE A MINIMUM OF 2" BEARING AT SUPPORTS. LAPPING JOISTS SHALL HAVE 6' LAPS
- CENTERED OVER INTERIOR SUPPORTS. LEDGERS AND STUD WALL FOUNDATION SILL PLATES SHALL BE BOLTED TO CONCRETE W/ ANCHOR BOLTS OF SIZE AND MINIMUM SPACING AS SHOWN ON DRAWINGS AT LEAST TWO BOLTS SHALL BE PROVIDED FOR EACH
- 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.

ALL EXPOSED INSULATION IS TO HAVE A FLAME SPREAD RATING OF LESS THAN 25 & A SMOKE DENSITY

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 NII@4.I(1)

ONE EXTERIOR DOOR MAY BE INSULATED TO A U-FACTOR OF 0.20. ALL OTHER EXTERIOR DOORS MAY NOT EXCEED 0.54.

SUBMIT TRUSS DESIGN FOR ENGINEERING PRIOR TO FABRICATION & VERIFY LOCATION OF GIRDER TRUSSES W/ TRUSS COMPANY PRIOR TO FORMING FOUNDATION WALLS AS TO PROVIDE FOR ADDITIONAL LOADING FROM VARYING TRUSS DESIGN. VERIFY ALL TRUSS SPANS & CONFIGURATIONS ON JOB SITE PRIOR TO FABRICATION.

TABLE 602 3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

TABLE 602.3(1) FASTE	NER SCHEDULE FOR ST	RUCTURALI	TEITIDERS		
DESCRIPTION	NO. \$ TYPE OF FASTENER *bcd				
JOIST TO SILL OR GIRDER, TOE NAIL	3-8d	_			
1' × 6' SUBFLOOR OR LESS TO EACH JOIS	2-8d 2 STAPLES, 1 ³ 4"				
2" SUBFLOOR TO JOIST OR GIRDER, BLINI	O AND FACE NAIL	2-16d	_		
SOLE PLATE TO JOIST, SOLID DECK, OR	16d	16° O.C.			
TOP OR SOLE PLATE TO STUD, END NAIL	2-16d	_			
STUD TO SOLE PLATE, TOE NAIL		3-8d OR 2-16d	_		
DOUBLE STUDS, FACE NAIL		10d	24" O.C.		
DOUBLE TOP PLATES, FACE NAIL		10d			
SOLE PLATE TO JOIST, SOLID DECK, OR		3-16d per 16"	<u> </u>		
DBL TOP PLATES, MIN. 48" OFFSET OF EN	•	8-16d	8-16d <u>—</u>		
BLOCKING BETWEEN JOISTS OR RAFTERS	TO TOP PLATE, TOE NAIL	3-8d —			
RIM JOIST TO TOP PLATE, TOE NAIL		8d 6' 0.C.			
TOP PLATES, LAPS AT CORNERS AND INT	TERSECTIONS, FACE NAIL	2-1Ød	_		
BUILT-UP HEADER, TWO PIECES WITH $last_2$ " S	BPACER	16d	16' O.C. ALONG EA EDGE		
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	_		
CEILING JOIST, LAPS OVER PARTITIONS, F	ACE NAIL	3-10d	_		
CEILING JOIST TO PARALLEL RAFTERS, F.	ACE NAIL	3-10d	_		
RAFTER TO PLATE, TOE NAIL		2-16d	_		
I' BRACE TO EACH STUD AND PLATE, FACE NAIL		2-8d			
		2 STAPLES, 134"	_		
BUILT-UP CORNER STUDS		10d	24' O.C.		
BUILT-UP GIRDERS AND BEAMS, 2-INCH L	1Ød	NAIL EACH LAYER AS 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	IP RAFTERS:				
TOE NAIL	4-16d	_			
FACE NAIL	3-16d				
RAFTER TIES TO RAFTERS, FACE	3-8d				
	SPACING OF FASTENERS				
DESCRIPTION OF BUILDING MATERIALS DESCRIPTION OF FASTENER beds		EDGES (IN.)1	INTERMEDIATE SUPPORTS C. (IN.)		
PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT		ALL SHEATHING TO	FRAMING,		
5/16"-1/2"	6	129			
19/32"-1"	6	12 ^g			

5/16'-1/2'	6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	13 _d
19/32"-1"	8d COMMON NAIL	6	12 ⁹
1 1/8"-1 1/4"	10d COM NAIL OR 8d DEFRMD NAIL	6	12
OTHER WALL SHEATHING "			
1/2" REGULAR CELLULOSIC FIBERBOARD SHEATHING	1½" GALVANIZED ROOFING NAIL, 6d COM NAIL, STAPLE 16 GA., 1½" LONG	3	6
1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1½" GALVANIZED ROOFING NAIL, 8d COM NAIL, STAPLE 16 GA., 1½" LONG	3	6
25/32' STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	134" GALVANIZED ROOFING NAIL, 8d COM NAIL, STAPLE 16 GA., 134" LONG	3	6
1/2" GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL, 6d COM NAIL, STAPLE GALVANIZED, 1½" LONG, 1¼" SCREWS, TYPE W OR S	4	8
5/8' GYPSUM SHEATHING	134" GALVANIZED ROOFING NAIL, 8d COM NAIL, STAPLE GALVANIZED, 136" LONG, 136" SCREWS, TYPE W OR S	4	8
PLYWOOD AND WOOD STRUCTURAL PAN	ELS, COMBINATION SUBFLOOR UNDERLA	YMENT TO FRAMING	•

OD COM NAIL OR SO DEFORMED NAIL FOR SI: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MPH = 1.609 KM/H.

3/4" AND LESS

1 1/8"-1 1/4"

a. 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 ksi (551 MPa) FOR SHANK DIAMETER OF 0.192" (20d COMMON NAIL), 90 ksi (620 MPa) FOR SHANK DIAMETERS LARGER THAN 0.142" BUT NOT LARGER THAN 0.171". AND 100 ksi (689 MPa) FOR SHANK DIAMETERS OF 0.142" OR LESS.

6d DEFORMED NAIL OR 8d COM NAIL

8d COM NAIL OR 8d DEFORMED NAIL

6. STAPLES ARE 16 GUAGE WIRE AND HAVE A MINIMUM 1/16-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). f. 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. A. 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. h. 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. I. 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 EXCEPT AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.

J. INTERIOR NON-BRACED WALL LINES MAY BE NAILED WITH A MINIMUM 4-100 NAILS.

ECTRICAL REQUIREMENTS*

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

STAIRWAY LIGHTING CONTROL:
ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS CONTROLLED BY A WALL SWITCH AT EACH FLOOR LEVEL. INTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE EXTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIR. THAN 6 STAIR RISERS.

ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 6' BETWEEN THE FIXTURE AND THE NEAREST POINT OF A

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,

RECEPTACLE OUTLETS, WITH GFI PROTECTION, SHALL BE INSTALLED EVERY 24"

AT LEAST ONE WALL RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED IN BATHROOMS ADJACENT TO EACH BASIN LOCATION.

A CONVENIENCE RECEPTACLE OUTLET SHALL BE INSTALLED FOR THE SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT LOCATED IN ATTICS AND CRAWL SPACES.

PLUG CAP IS INSERTED.

RESIDENTIAL SPECIALTY CODE BOOK IN SECTIONS:

E37-404 SWITCHES

E37-406 RECEPTACLE OUTLETS

HIGH-EFFICIENCY INTERIOR LIGHTING SYSTEM:

AND AT THE EXTERIOR SIDE OF EGRESS DOORS.

OF ILLUMINATION TO THE STAIR, INCLUDING THE LANDINGS AND TREADS, TO BE IMMEDIATE VICINITY OF EACH LANDING AT THE TOP AND BOTTOM OF THE STAIR. EXCEPTION: WHERE THE DIFFERENCE BETWEEN FLOOR LEVELS REQUIRES LESS

FIXTURES IN CLOTHES CLOSETS:
SURFACE MOUNTED FLUORESCENT FIXTURES SHALL BE INSTALLED ON THE WALL

WET OR DAMP LOCATIONS:

entire assembly. INCLUDING ANY WALL SPACE THAT IS 2 FEET OR MORE IN WIDTH.

ON ALL COUNTER SPACES THAT MEASURE 12" OR WIDER

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.

WET LOCATIONS:
A RECEPTACLE INSTALLED IN A WET LOCATION SHALL BE IN A WEATHER PROOF ENCLOSURE, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN THE ATTACHMENT

*ADDITIONAL INFORMATION CAN BE FOUND IN THE OREGON

E37-410 LIGHTING OUTLETS

A MINIMUM OF 50% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE COMPACT OR LINEAR FLOURESCENT, OR A LIGHTING SOURCE THAT HAS A MINIMUM EFFICANCY OF 40 LUMENS PER INPUT WATT. SCREW-IN COMPACT FLOURESCENT LAMPS COMPLY WITH THIS REQUIREMENT.

TABLE N1101.1(1)

PERSCRIPTIVE ENVELOPE REQUIREMENTS			
BUILDING COMPONENT	MIN. REQUIRED VALUE		
WALL INSULATION- ABOVE GRADE	R-21		
WALL INSULATION- BELOW GRADE	R-15		
FLAT CEILINGS	R-38		
VAULTED CEILINGS	R-38		
UNDERFLOORS	R-3Ø		
SLAB EDGE PERIMETER	R-15		
HEATED SLAB INTERIOR	R-10		
WINDOWS	U-Ø.35		
SKYLIGHTS	U-060		
EXTERIOR DOORS	U-Ø2Ø		
EXTERIOR DOORS W> 2.5 SQ. FT. GLAZIN	IG: U-0.40		

a. As allowed in Section NIIOI.4, termal 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 NII04.1(1). b. R-values used in this table are nominal, for the insulation

FORCED AIR DUCT INSULATION

only in standard wood frameed construction and not for the 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% of the total heated space floor area unless area has a U-factor no greater than U-0.031. The factor of 0.042 is representative of a vaulted scissor truss. A 10 inch deep rafter vaulted ceiling with R-30 insultation is U-0.0033 and complies with this requirement, not to exceed 50% of the total heated space floor area. j. Sliding glass doors shall comply with window performance

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 U-factor of .54 or less. 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.

- EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 5.7 SQ FT WITH A MIN. WIDTH OF 20" AND A MIN. HEIGHT OF 22" AND A SILL LESS THAN 44" OFF THE FLOOR.
- ALL WINDOWS WITHIN 18" OF THE FLOOR AND WITHIN
- 24" OF ANY DOOR ARE TO HAVE TEMPERED GLAZING. SEE SECTION R308.4 IN ORSC FOR ADDITIONAL INFO 3. 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
- WITH SAFETY GLAZING. 5. ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND 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
- EXTERIOR DOORS. PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND BACK DAMPER) FOR FIREPLACES, WOOD STOVES AND ANY APPLIANCES WITH AN OPEN FLAME. BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED

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

RANGE HOODS ARE ALSO TO BE VENTED TO OUTSIDE.

LIGHTING

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 COMPLY WITH THIS REQUIREMENT.

THE BUILDING OFFICIAL SHALL BE NOTIFIED IN WRITING AT THE FINAL INSPECTION THAT A MINIMUM OF FIFTY PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES ARE COMPACT PR LINEAR FLUORESCENT, OR A MINIMUM EFFICACY OF 40 LUMENS PER INPUT WATT.

ZÖK K Ö



SUITE 103 LAKE OSWEGO, OR 97035 (503) 624 0555

DESCRIP: DETAILS 7/08

A NORTHWEST DESIGN

	MEAGURE
	HIGH EFFICIENCY HVAC SYSTEM: GAS-FIRED FURNACE OR BOILER WITH MINIMUM AFUE OF 90%, OR AIR-SOURCE HEAT PUMP WITH MINIMUM HSPF OF 8.5 OR CLOSED-LOOP GROUND SOURCE HEAT PUMP WITH MINIMUM COP OF 3.0
:	HIGH EFFICIENCY DUCT SEALING: CERTIFIED PERFORMANCE TESTED DUCT SYSTEMSOR ALL DUCTS AND AIR HANDLER ARE CONTAINED WITHIN BUILDING ENVELOPES
:	HIGH EFFICIENCY BUILDING ENVELOPE: REPLACE CORRESPONDING TABLE NIØI.I(1) COMPONENTS WITH ALL OF THE FOLLOWING: WALL INSULATION-ABOVE GRADE - U-0.047/R-24, AND VAULTED CEILINGS - U-0.033/R-30A ^{cd} , AND FLAT CEILINGS - U-0.025/R-49 AND, WINDOWS - U-0.32
	ZONAL ELECTRIC, DUCTLESS FURNACE OR DUCTLESS HEAT PUMPS: 15 PERCENT PF PERMANENTLY INSTALLED LIGHTING FIXTURES AS CFL OR LINEAR FLUORESCENT ØR A MIN EFFICACY OF 40 LUMENS PER WATT, OR WINDOWS - U-0.32 OR, FLAT CEILINGS - U-0.025/R-49 AND VAULTED CEILINGS - U-0.033/R-30A OR, EXTERIOR WALLS - U-0.041/R-24
Ę	HIGH EFFICIENCY CEILINGS & WINDOWS/LIGHTING: REPLACE CORRESPONDING TABLE NIIØ1.(1) COMPONENTS WITH ALL OF THE FOLLOWING: VAULTED CEILINGS - U-0.033/R-30.4°d, AND FLAT CEILINGS - U-0.025/R-49, AND WINDOWS - U-0.32, AND T5 PERCENT OF PERMANENTLY INSTALLED LIGHTING FIXTURES AS CFL OR LINEAR FLUORESCENT OR A MIN EFFICACY OF 40 LUMENS PER WATT
4	HIGH EFFICIENCY CEILINGS & WINDOWS/WATER HEATING: REPLACE CORRESPONDING TABLE NIIØ1.(1) COMPONENTS WITH ALL OF THE FOLLOWING: VAULTED CEILINGS - U-0.033/R-30.4°d, AND FLAT CEILINGS - U-0.025/R-49, AND WINDOWS - U-0.32, AND NATURAL GAS/PROPANE, ON-DEMAND WATER HEATING WITH MIN EF OF 0.80
	HIGH EFFICIENCY WATER HEATING/LIGHTING: NATURAL GAS/PROPANE, ON-DEMAND WATER HEATING WITH MIN EF OF 0.80 15 PERCENT OF PERMANENTLY INSTALLED LIGHTING FIXTURES AS CFL OR LINEAR FLUORESCENT OR A MIN EFFICACY OF 40 LUMENS PER WATT
8	SOLAR PHOTOVOLTAIC: MINIMUM I WATT/SQ FT CONDITIONED FLOOR SPACES
	SOLAR WATER HEATING:

TABLE 1101.1(2) ADDITIONAL MEASURES (select one)

FOR SI: I SQUARE FOOT = 0.093 M2. I WATT PER SQUARE FOOT = 10.8 W/M3 a. FURNACES LOCATED WITHIN THE BUILDING ENVELOPE SHALL HAVE SEALED COMBUSTION AIR INSTALLED. COMBUSTION AIR SHALL BE DUCTED

b. DOCUMENTATION OF PERFORMANCE TESTED DUCTWORK SHALL BE SUBMITTED TO THE BUILDING OFFICIAL UPON COMPLETION OF WORK. THIS WORK SHALL BE PERFORMED BY A CONTRACTOR THAT IS CERTIFIED BY THE OREGON DEPARTMENT OF ENERGY'S (ODOE) RESIDENTIAL ENERGY TAX CREDIT PROGRAM AND DOCUMENTATION SHALL BE PROVIDED THAT WORK DEMONSTRATES CONFORMANCE TO ODOE DUCT

MINIMUM OF 40 FT2 OF GROSS COLLECTOR AREA

C. A = ADVANCED FRAME CONSTRUCTION, WHICH SHALL PROVIDE FULL REQUIRED CEILING INSULATION VALUE TO THE OUTSIDE OF EXTERIOR WALLS d. THE MAXIMUM VAULTED CEILING SURFACE AREA SHALL NOT BE GREATER THAT 50 PERCENT OF THE TOTAL HEATED SPACE FLOOR AREA

UNLESS YAULTED AREA HAS A U-FACTOR NO GREATER THAN U-0.026. e. SOLAR ELECTRIC SYSTEM SIZE SHALL INCLUDE DOCUMENTATION INDICATING THAT TOTAL SOLAR RESOURCE FRACTION IS NOT LESS THAN 15%. f. SOLAR WATER HEATING PANELS SHALL BE SOLAR RATING AND CERTIFICATION CORPORATION (SRCC) STANDARD OG-300 CERTIFIED AND LABELED, WITH DOCUMENTATION INDICATING THAT TOTAL SOLAR RECOURCE FRACTION 15 NOT LESS THAN 15%.