

BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL RESIDENTIAL CODE AND LOCAL CODES.

CLEVATE DESIGN & BUILD WOOD BRIDGE VII LOT 1436 WINTERSET 153 NW CARSON DR LEE SUMMIT MO

**SCALE** 1/4" = 1-0

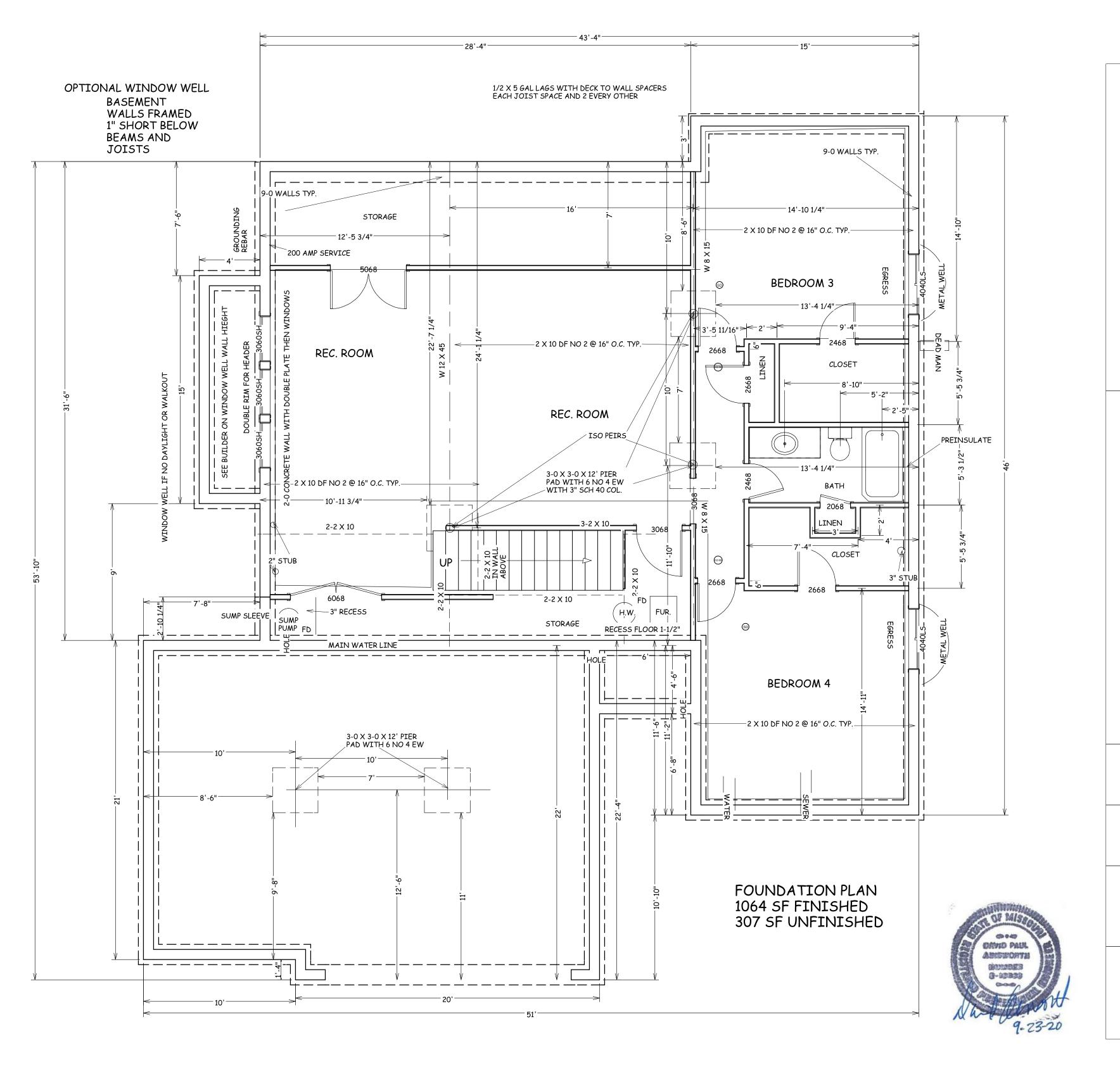
DATE

9-26-20 PLAN NO.

3245

SHEET NO.

1 OF 5



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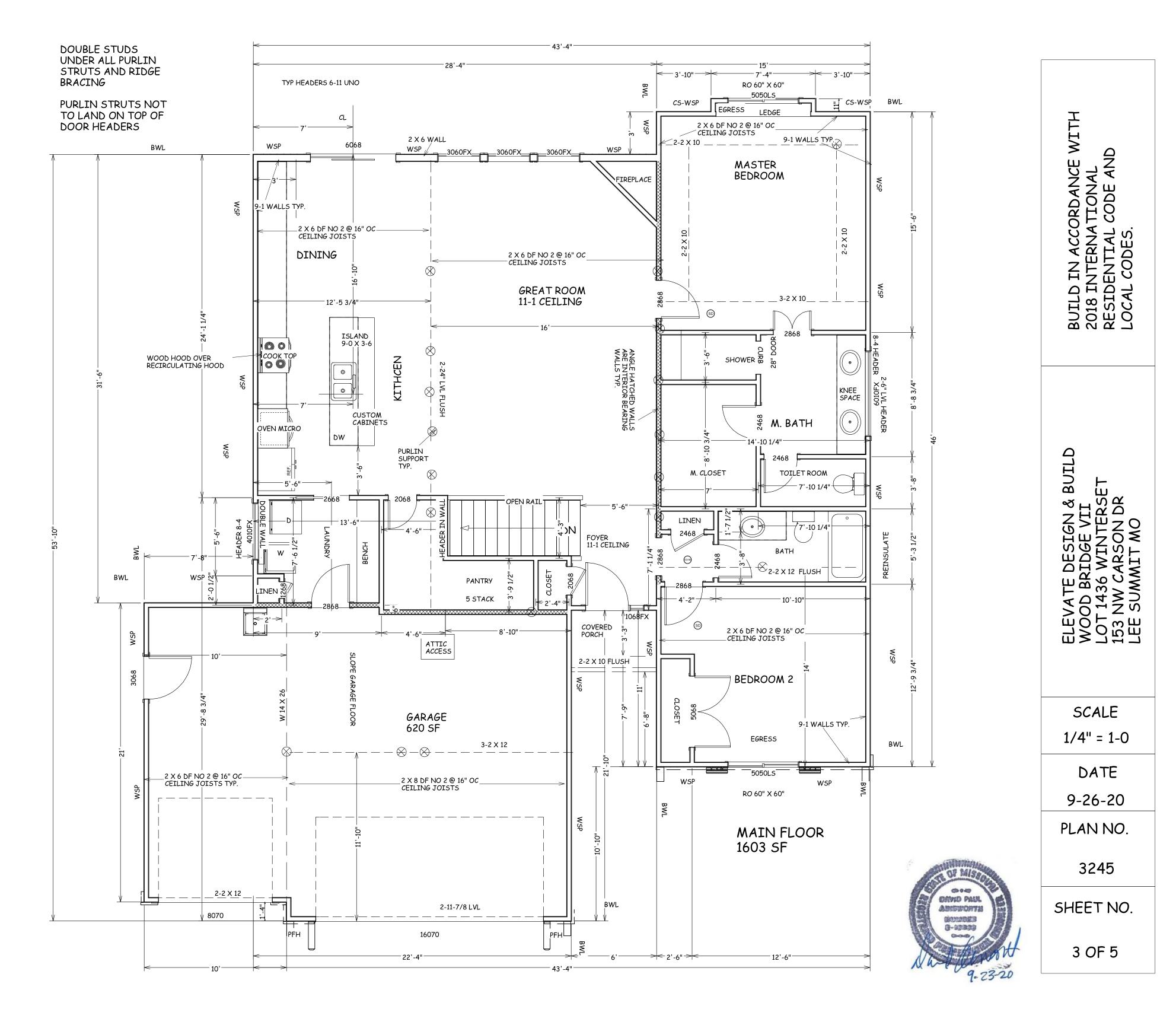
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## WINDOW SAFETY GLAZING PER 308

SAFETY GLAZING REQUIRED ALONG WALKING SURFACES AND STAIRS LOCATED WITHIN 36 INCHES HORIZONTALLY OF THE STEPS. SAFETY GLAZING REQUIRED IF EXPOSED SINGLE PANEL IS IN EXCESS OF 9 SQUARE FEET OR THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FINISHED FLOOR.

SAFETY GLAZING REQUIRD WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN 24 INCHES OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A

WINDOWS ARE TO HAVE FALL

PROTECTION PER IRC 312.2

WALKING SURFACE, SAFETY OR TEMPERED GLAZING IS REQUIRED.

REQUIREMENTS

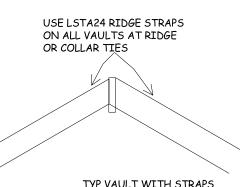
BEDROOM WINDOW EGRESS MINIMUM FOR A DOUBLE HUNG WINDOW IS 34 INCH CLEAR WIDTH MIN. AND 24 INCH CLEAR HEIGHT MIN. WITH A CLEAR OPENABLE AREA OF 5.7 SQUARE FEET

A CASEMENT OR SLIDER WINDOW MINIMUMS ARE 20 INCH CLEAR WIDTH MINIMUM AND 41 INCH CLEAR HEIGHT MINIMUM. WITH A MINIMUM 5.7 SQUARE FOOT OF OPENABLE AREA. OPENING OF EGRESS WINDOW NOT MORE THAN 42" FROM THE FLOOR

LADDER -**3'-0"** → EGRESS WINDOW WELL AS NEEDED

PER SECTION 308 MIN 3-0 X 3-0 WITHLADDER

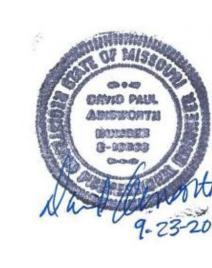
ALL POINT LOADS SHALL HAVE A MINIMUM OF 2 STUDS UNLESS NOTED OTHERWISE



OVERHEAD GARAGE DOORS MUST MEET DASMA 115 MPH OR IRC 2018 REQUIRMENTS

PURLIÑ PURLIN

> PURLIN PLAN 1/8" = 1-0



ACCORDANCE WITH TIONA CODE **LTERNA** SID BUILL 2018 : RESIL 0

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	MINIMUM LEN	TABLE F	602,10.5 RACED W	ALL PAN	ELS		
1		MINIMUM LENGTH*					CONTRIBUTING LENGTH
METHOD (See Table R602.10.4)		Wall Height					(Inches)
	F	8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, P	BS, PCP, HPS, BV-WSP	48	48	48	53	58	Actual <sup>b</sup>
GB LIB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actua
		55	62	69	NP	NP	Actual <sup>6</sup>
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	- 48
	SDC D <sub>0</sub> , D <sub>1</sub> and D <sub>2</sub> , ultimate design wind speed < 140 mph	32	32	34	NP	NP	
	CS-G	24	27	30	33	36	Actual <sup>b</sup>
	Adjacent clear opening height (inches)						
	≤ 64	24	27	30	33	36	
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36	
CS-WSP, CS-SFB	100	-	44	40	38	38	A1b
	104	-	49	43	40	39	Actual <sup>b</sup>
	108		54	46	43	41	4
	112			50	45	43 45	4.
	116			55	48	45	-
	120			60	52 56	51	
	124				61	54	
	128				66	58	
	132				00	62	
	136					66	
	140				<u> </u>	72	
	144		Po	rtal header	height	J	
METHOD (See Table R602,10.4)		8 feet	9 feet	10 feet	11 feet	12 feet	
DEU	Supporting roof only	16	16	16	Note c	Note c	48
PFH	Supporting one story and roof	24	24	24	Note c	Note c	
PFG		24	27	30	Note d	Note d	
CS-PF	SDC A, B and C	16	18	20	Note e	Note e	
CS-PF	SDC D <sub>0</sub> , D <sub>1</sub> and D <sub>2</sub>	16	18	20	Note e	Note e	Actual

or SI; 1 inch = 25,4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.
P = Not Permitted.
Linear interpolation shall be permitted.
Use the actual length where it is greater than or equal to the minimum length.
Use the actual length where it is greater than or equal to the himman region.  Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with por
Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.3, but wall height shall be permitted to be increased to 12 feet with por Maximum header height for PFG is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with por Maximum header height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with por
Maximum header height for CS-PF is 10 feet in accordance with Figure Rouz-10.0.4, but wan height share be permanent to

(ONE BRACED WALL PANEL)	
2'-18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL	FASTEN KING STUD TO HEADER WITH 8 16D SINKERS
PONY WALL HEIGHT SHE ATTEMPT PROBLETS OF SHEATHING)	
MIN. 3'X11'/ NET HEADER'S IELL HEADER OF HEADER	
SPLICE EDGES SHALL	FASTEN TOP PLATE TO HEADER WITH TWO
PATTERN AS SHOWN  HEADY DACK-STUD STRAP PER TABLE  HEADY TO JACK-STUD STRAP PER TABLE  HEADY TO JACK-STUD STRAP PER TABLE  OR ROW OF 3° O.C.  OPPOSITE SIDE OF SHEATHING  NAILING IS REQUIRED  NAILING	FASIEN TOP PLATE TO HEADER WITH TWO ROWS OF 160 SINKER NAILS AT 3' O.C. TYP.
MIN. DOUBLE 2x4 FRAMING COVERED WITH MIN.  MIN. DOUBLE 2x4 FRAMING COVERED WITH MIN.  MITHICK WOOD STRUCTURAL PANEL SHEATHING WITH 8D COMMON OR GALVANIZED BOX NAILS AT  FRAME CONSTRUCTION  SILLS) TYPICAL PORTAL  FRAME CONSTRUCTION  SILLS) TYPICAL PORTAL  FRAME CONSTRUCTION  SILLS) TYPICAL PORTAL  FRAME CONSTRUCTION	MIN. 3/6* WOOD STRUCTURAL PANEL SHEATHING
MIN. LENGTH OF PANEL PER TABLE R602.10.5 (KING AND JACK STUD).	
MIN. (2) 3500 LB STRAP-TYPE HOLD-DOWNS (EMBEDDED INTO CONCRETE AND NAILED INTO FRAMING)  (2).	
MIN. REINFORCING OF FOUNDATION, ONE #4 BAR DEVICE (EMBEDDED INTO CONCRETE AND NAILED INTO FRAMING).	
MIN. FOOTING SIZE UNDER OPENING IS 12"x12". A TURNED- DOWN SLAB SHALL BE PERMITTED AT DOOR OPENINGS.	
MIN. (1) %* DIAMETER ANCHOR BOLT INSTALLED PER SECTION R403.1.6 - WITH 2"x 2" x"/16" PLATE WASHER	

FIGURE R602.10.6.1 METHOD ABW--ALTERNATE BRACED WALL PANEL

- EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (1WO BRACED WALL FAMELS)

MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE'

12.5

15.0

18.0

18.0

23.5

29.0

34.5

18.5

27.0

35.0

43.0

6.5

9.5

12.5

15.0

18.0

12.5

18.0

23.5

29.0

34.5

NP

NP

NP

PANEL LENGTH PER TABLE R602 10.5

50

40 50

30

40 50

(2) HOLD-DOWN OR (2) STRAP-TYPE ANCHORS PER TABILE R602.10.6.1 (DNE) OF EACH SHOWN FOR CLARITY). STRAP-TYPE ANCHORS SHALL BE PERMITTED TO BE ATTACHED OVER THE WOOD STRUCTURAL PANEL

EXTENT OF HEADER WITH SINGLE PORTAL FRAME

FRONT ELEVATION

≤ 115

25.4 mm.

3.5

7.0

9.0

10.5

7.5

13.5

16.5

20.0

11.0

20.0

24.5 29.0

FOR PANEL SPLICE (IF NEEDED) ADJOINING PANEL EDGES SHALL MEET OVER AND BE FASTENED TO COMMON

SECTION

3.5

6.0

7.5 9.0

3.5 6.5

11.5

14.0

17.0

5.0

9.0

13.0

17.0

21.0

25.0

4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.2 METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS BRACE WALL DETAILS WIND SPEED 115 MPH WIND EXPOSURE A SEISMIC DESIGN CAEGORY A

			BRACING METHO	ODS CONNECTION CRITERI	Δ= !
METI	HODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Fasteners	Spacing
1		1 × 4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing			Wood: per stud and top and bottom plates
Intermittent Bracing Methods				Metal strap: per manufacturer	Metal: per manufacturer
	DWB Diagonal wood boards	<sup>3</sup> / <sub>4</sub> " (1" nominal) for maximum 24" stud spacing		2-8d $(2^{1}/_{2}" \text{ long} \times 0.113" \text{ dia.})$ nails or $2 - 1^{3}/_{4}" \text{ long staples}$	Per stud
	WSP Wood structural panel (See Section R604)	3/8"		Exterior sheathing per Table R602.3(3)	6" edges 12" field
				Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
	BV-WSP* Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	7/ <sub>16</sub> "	See Figure R602.10.6.5	8d common ( $2^{1}/_{2}'' \times 0.131$ ) nails	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts
	SFB Structural fiberboard sheathing	1/2" or <sup>25</sup> / <sub>32</sub> " for maximum 16" stud spacing		$1^{1}l_{2}$ " long × 0.12" dia. (for $^{1}l_{2}$ " thick sheathing) $1^{3}l_{4}$ " long × 0.12" dia. (for $^{23}l_{32}$ " thick sheathing) galvanized roofing nails	3" edges 6" field
	GB Gypsum board	1/2"		Nails or screws per Table R602.3(1) for exterior locations  Nails or screws per Table R702.3.5 for interior locations	For all braced wall panel locations: 7" edges (including top and bottom plates) 7" field
	PBS Particleboard sheathing (See Section R605)	<sup>3</sup> / <sub>8</sub> " or <sup>1</sup> / <sub>2</sub> " for maximum 16" stud spacing		For <sup>3</sup> / <sub>8</sub> ", 6d common (2" long × 0.113" dia.) nails For <sup>1</sup> / <sub>2</sub> ", 8d common (2 <sup>1</sup> / <sub>2</sub> " long × 0.131" dia.) nails	3" edges 6" field
	PCP Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		1 <sup>1</sup> / <sub>2</sub> " long, 11 gage, <sup>7</sup> / <sub>16</sub> " dia. head nails or <sup>7</sup> / <sub>8</sub> " long, 16 gage staples	members
	HPS Hardboard panel siding	<sup>7</sup> / <sub>16</sub> " for maximum 16" stud spacing		0.092" dia., 0.225" dia. head nails with length to accommodate 1½" penetration into studs	4" edges 8" field
	ABW Alternate braced wall	3/8"		See Section R602.10.6.1	See Section R602.10.6.1

_	· ·	
aal	PONY WALL HEIGHT  WIN 3 3111// NET HEADER STEEL HEADER RROHIBITED FOR SINGLE OR DOUBLE PORTAL  2'-18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL  MIN 3'111// NET HEADER STEEL HEADER RROHIBITED IF 'Y' SPACER IS USED, PLACE ON BACK-SIDE OF HEADER OF HEADER TO HEADER WITH SD COMMON OR GALVANIZED BOX NAILS IN 3' GRID PATTERN AS SHOWN  HEADER TO JACK-STUD STRAP PER TABLE HEADER TO STRUCTURAL PANEL SHEATHING OPPOSITE SIDE OF SHEATHING  MIN. DOUBLE 2'-4' FRAMING COVERED WITH MIN. 3' THICK WOOD STRUCTURAL PANEL SHEATHING WITH BD COMMON OR GALVANIZED BOX NAILS AT S' O.C. INALL FRAMING (STUDS, BLOCKING, AND SILLS) TUP.  MIN. LENGTH OF PANEL PER TABLE R602-10-5 INSTALLED PER SECTION R403.1.9 WITH 2'-2'-16' PLATE WASHER	TENSION STRAP PER TABLE 802.10.8.4 (ON OPPOSITE SIDE OF SHEATHING)  BRAGEO WALL LINE CONTINUOUSLY SHEATHER WITH WOOD STRUCTURAL PANELS IF NEEDED, PANEL SPLICE BOOGES SHALL OCUETO VER AND BE NALED TO COMMON ADDILE 247 OF THE MODILE 247 OF THE MODILE 247 OF THE MODILE 247 OF THE TORK ON THE MODILE 248 POST (KING AND JACK STUD) MUMBER OF JACK STUDS PER TABLE RED2.7(1) & (2)
	OVER CONCRETE OR MASONRY BLOCK FOUNDATION	ANCHOR BOLTS PER SECTION R403.1.5
	WOOD STRUCTURAL PANEL SHEATHING TO TOP OF BAND OR RIM JOIST TABLE R802.3(1)  WOOD STRUCTURAL PANEL SHEATHING OVER APP	(2) FRAMING ANCHORS APPLIED ACROSS APPLIED ACROSS SHEATHING JOINT WITH A CARACITY OF 670 LBS IN THE HORIZONIALAND VERTICAL DIRECTIONS  BROVED BAND OR RIM JOIST-
	OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHERE PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)	
	WOOD STRUCTURAL PANEL SHEATHING TO TOP OF BAND OR RIM JOIST WOOD STRUCTURAL PANEL TO JOIST PER TO JOINT PER T	ATTACH SHEATHING TO- BAND OR RIM JOIST WITH 8D COMMON NAILS AT 3" O.C. TOP AND BOTTOM OC. TOP AND BOTTOM PROVED BAND OR RIM JOIST-
	*	

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

PFG

Continuously sheather wood structural pane

CS-Gb,c

Continuously sheathe wood structural pane

adjacent to garage openings

ntinuously sheat portal frame

<sup>7</sup>/16"

3/8"

7/<sub>16</sub>"

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m², 1 mile per hour = 0.447 m/s.

a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.

b. Applies to panels next to garage door opening where supporting gable end wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>, roof covering dead load shall not exceed 3 psf.

c. Garage openings adjacent to a Method CS-O panel shall be provided with a header in accordance with Table R602.7(1). A full-height clear opening shall not be permitted adjacent to a Method CS-O panel.

d. Mothod CS-SFB does not apply in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.

e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>0</sub> through D<sub>2</sub> only.

FIGURE R802.10.6.4
METHOD CS-PF--CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION



See Section R602.10.6.2

See Section R602.10.6.3

6" edges 12" field

See Method CS-WSP

See Section R602.10.6.4

3" edges 6" field

See Section R602.10.6.3

Exterior sheathing pe Table R602.3(3)

See Method CS-WSP

See Section R602.10.6.4

1 $^{1}/_{2}$ " long × 0.12" dia. (for  $^{1}/_{2}$ " thick sheathing) 1 $^{3}/_{1}$ " long × 0.12" dia. (for  $^{25}/_{2}$ " thick sheathing) galvanized roofing nails