

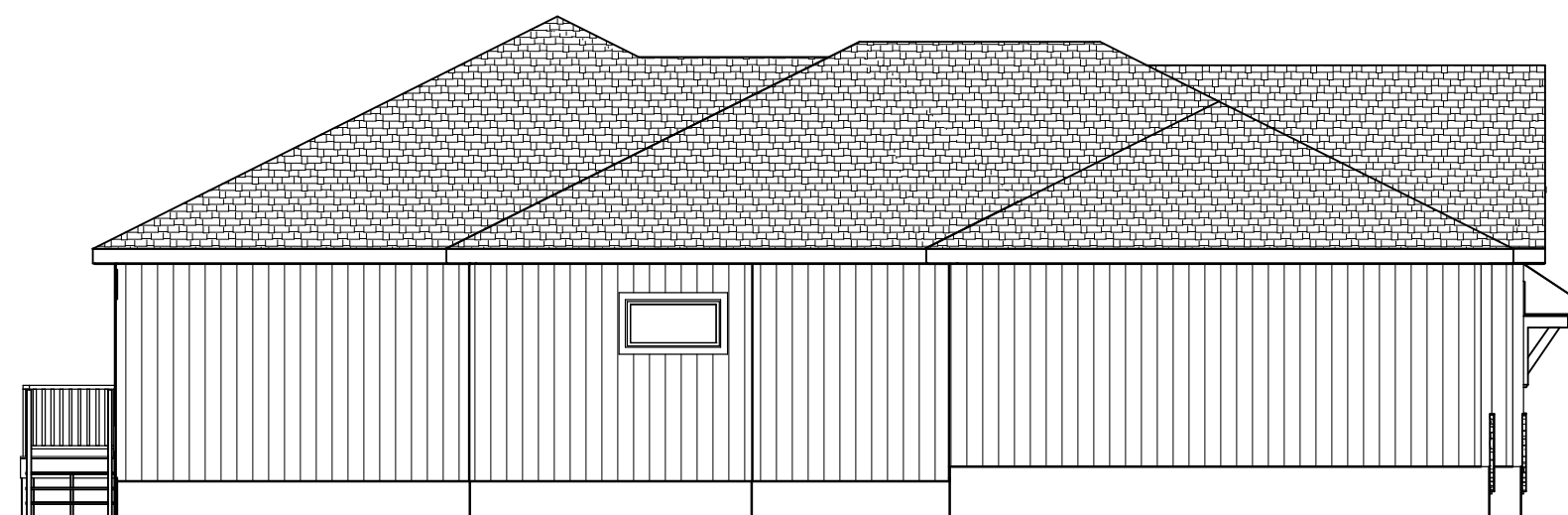


HILLCREST BEAD & BOARD

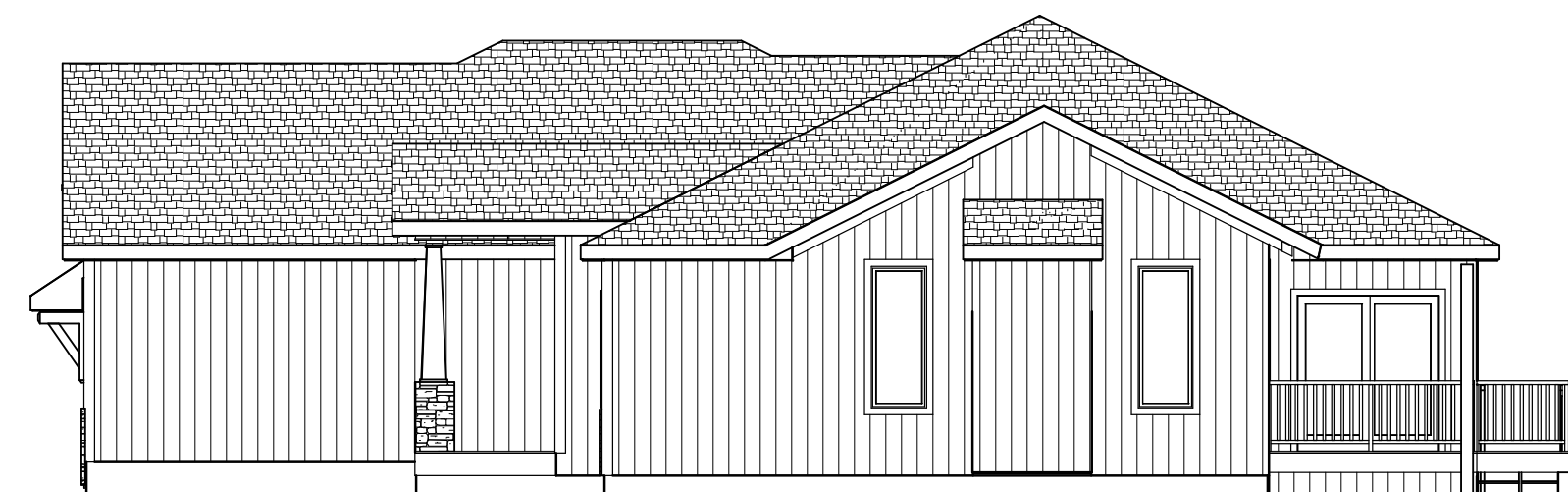
FRONT EL.  
STUCCO, BOARD & BATT, AND STONE



REAR EL.  
1/8" = 1'-0"



LEFT EL.  
1/8" = 1'-0"



RIGHT EL.  
1/8" = 1'-0"

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

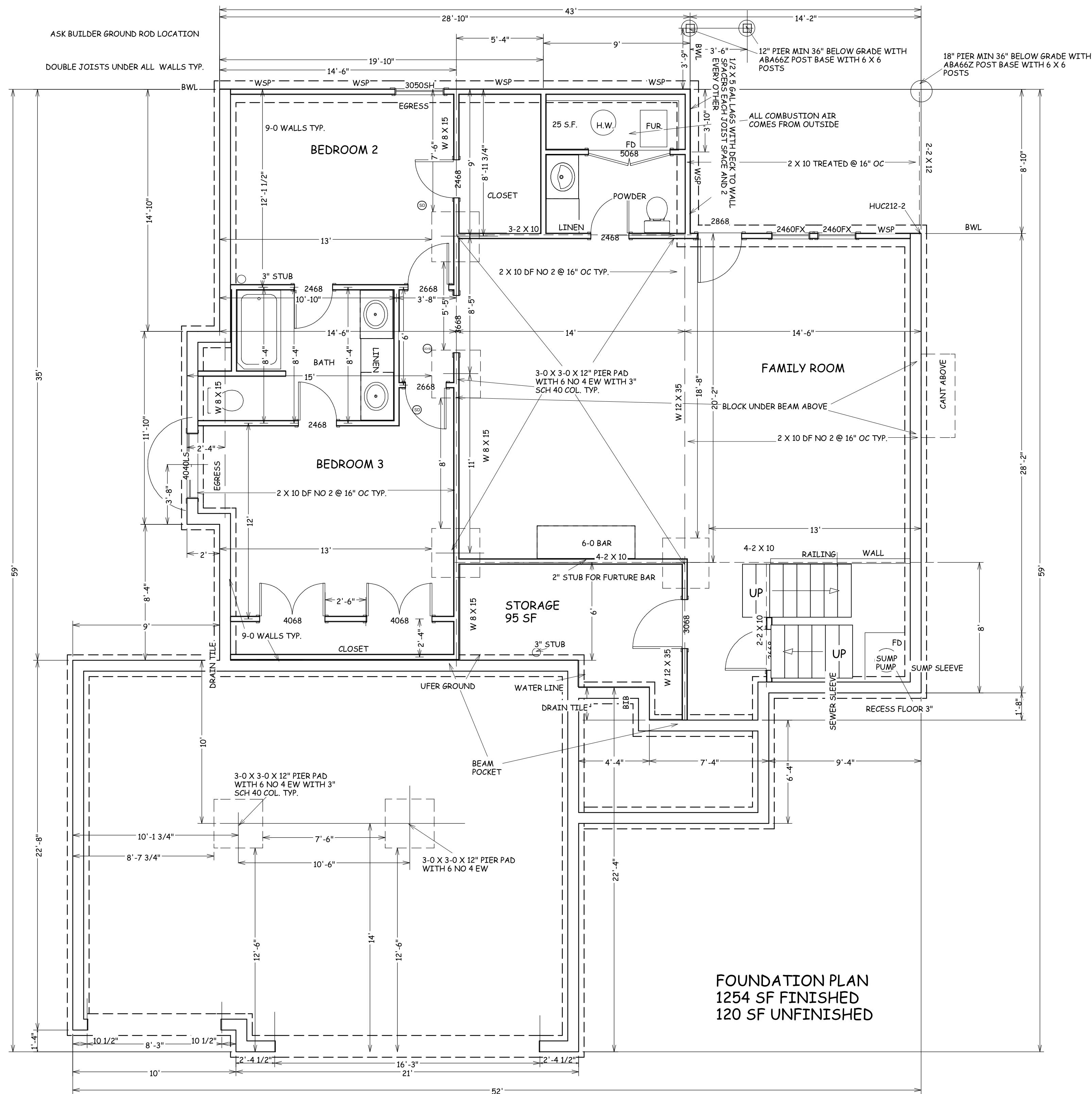
TRUMARK HOMES  
KYLE I  
LOT 202 HIGHLAND MEADOWS  
1063 SW FIORD DR  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

DATE  
7-10-22

PLAN NO.  
3883

SHEET NO.  
1 OF 5



**BUILD IN ACCORDANCE WITH  
2018 INTERNATIONAL  
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LOCAL CODES.**

TRUMARK HOMES  
KYLE I  
LOT 202 HIGHLAND MEADOWS  
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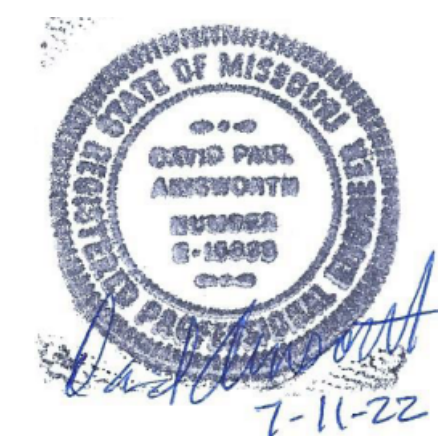
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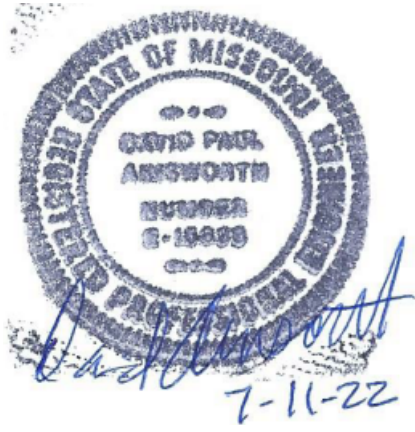
SHEET NO.

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TRUMARK HOMES  
KYLE I  
LOT 202 HIGHLAND MEADOWS  
1063 SW FIORD DR  
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SHEET NO.

3 OF 5



ENERGY CONSERVATION CODE  
THE FOLLOWING VALUES ARE NEEDED.

R-15 IN WALLS

R-49 IN ATTICS

R-38 IN VAULTS  
R-30 REDUCTION FOR VAULTS IS ONLY FOR 500 SF  
PF AREA

R-19 IN FLOORS OVER UNCONDITIONED SPACES

R-10 IN CRAWL SPACE WALLS

BASEMENT WALLS R-13 CAVITY OR R-10 CONTINUOUS

SLABS SHALL BE R-10 FOR A DEPTH OF 2 FOOT

A WINDOW U FACTOR OF .35 OR BETTER

DUCTWORK NEEDS TO HAVE AN R-8 VALUE

VAULT INSULATION DETAIL

1" AIR SPACE WITH FOAM AIR  
CHUTES

2 X 10 VAULT RAFTER

2 X 2 NAILED TO BOTTOM OF  
RAFTERS 12" O.C. WITH 12 D  
NAILS

R-38 HIGH DENSITY  
INSULATION

INTERCONNECTED HARD WIRED SMOKE  
DETECTORS SHALL BE INSTALLED IN EACH  
BEDROOM AND OUTSIDE OF EACH BEDROOM

ALL PLUMBING IF EXISTING SHALL BE CAPPED  
AND AIR TESTED PRIOR TO ROUGH-IN  
INSPECTION FOR LEAK VERIFICATION

ICE & WATER SHEILD REQUIRED ON ALL  
ROOFS

ROOF IS DESIGNED FOR 25  
P.S.F. SNOW LOAD MIN.

COMP. SHINGLES OVER  
15# FELT

RIDGE BOARDS AND HIPs ARE TO BE 2  
X MATERIAL, AND NOT LESS THAN  
THE END CUT OF RAFTER

PROVIDE RAFTER TIES PER SECTION 802.3  
AND 802.3.1 WHEN UNABLE TO CONNECT  
RAFTERS TO CEILING JOISTS

2 X 6 DF NO. 2  
AT 16" OC

7/16" APA  
RATED ROOF  
SHEATHING

RAFTERS AND CEILING  
JOISTS CONNECTIONS IN  
ACCORDANCE IRC 802.3

DROP EDGE AND GUTTER

2 X 6 DF NO. 2  
AT 16" OC

1/2 GYP. BOARD

GARAGE SHALL HAVE 5/8 TYPE X  
SHEET ROCK  
CEILING AND WALLS

2 - 2 X 10 DF NO 2

HEADERS TYP. U.N.O.

2 X 4 DF NO. 2

AT 16" OC

3/4" T & G SUB FLOOR

GLUED AND NAILED

7/16 APA RATED SIDING OVER  
WATER RESISTIVE HOUSE WRAP IN  
COMPLIANCE WITH SECTION 703.2  
OF THE IRC

1/2" ANCHOR BOLTS AT 5-0 OC MIN. , AND BE  
LOCATED WITHIN 12" FROM THE ENDS OF EACH  
PLATE SECTION. SHALL EXTEND A MINIMUM OF  
7" INTO CONCRETE

2 X 4 TREATED PLATE OVER  
SILL SEALER

2 X 10 DF NO 2 @  
16" OC TYP.

WALLS OVER 10-2 TO 18-0  
STUDS SHALL BE 2 X 6 DF  
NO 2 @ 16" O.C. TYP.

ALL STUDS GO FROM FLOOR TO  
CEILING OR RAFTER DIAFRAM TYP.

MIN. CONCRETE STRENGTH  
2,500 PSI BASEMENT FLOOR SLABS UNDISTURBED GRADE  
3,000 PSI FOR FOOTINGS , FOUNDATION WALLS, AND OTHER VERTICAL  
CONCRETE  
3,500 PSI FOR CARPORT AND GARAGE FLOOR SLABS ON UNDISTURBED GRADE,  
AND STRUCTURAL FLOOR SLABS

SPREAD FOOTING  
MIN 8" DEEP X 16"  
WITH TWO NO 4  
REBAR

4" CONCRETE SLAB WITH NO  
4 BARS AT 2-0 OC EACH WAY,  
OVER 6 ML VAPOR BARRIER  
OVER CRUSHED ROCK

RADON VENTING OF SLAB

INTERIOR DRAIN TILE MIN. 1-1/2"  
MIN. DRAIN TO DAYLIGHT, OR SUMP  
PUMP IN ACCORDANCE TO R-405

8 X 16 FOOTING WITH TWO NO 4  
BARS HORIZONTAL 3" FROM THE  
BOTTOM, ALL FOOTINGS TO  
EXCEED MIN. FROST DEPTH OF 36"

MIN. STAIR HEADROOM 6-8

ALL STAIRS  
MAX. RISE 7-3/4"  
MIN. RUN 10"

TYPICAL WALL SECTION

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  
WALKING SURFACE, SAFETY OR TEMPERED GLAZING IS REQUIRED.

WINDOWS ARE TO HAVE FALL  
PROTECTION PER IRC 312.2

WINDOW EGRESS  
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  
MIN.

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

PIER PADS

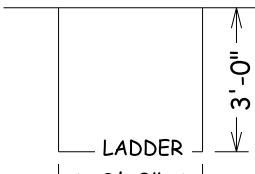
TYP. U.N.O. 3-0 X 3-0 X 12" PIER PADS MIN.  
WITH # 4 REBAR, 6 EACH WAY

ALL CONCRETE EXPOSED TO  
WEATHER GARAGE SLABS  
FOOTINGS WALLS AND FLATWORK  
MUST HAVE 6% AIR ENTRAINMENT

USE LSTA24 RIDGE STRAPS  
ON ALL VAULTS AT RIDGE  
OR COLLAR TIES

TYP VAULT WITH STRAPS

STUDS OVER 10-0 SHALL HAVE  
BLOCKING ALONG WALL MAX  
OF 6-0 O.C.



EGRESS WINDOW WELL AS NEEDED  
PER SECTION 308 MIN 3-0 X 3-0  
WITH LADDER

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

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

1. DWELLING / GARAGE OPENINGS BETWEEN GARAGE AND SLEEPING  
PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS SHALL BE  
EQUIPPED WITH SOLID WOOD OR STEEL DOORS NOT LESS THAN 1-3/8"  
THICK OR 20 MINUTE RATED DOORS, WITH SELF CLOSING DEVICES  
REQUIRED FOR GARAGE / DWELLING SEPERATION DOORS R302.5.1

2. WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS REQUIRED FOR  
ANY DWELLING IN COMPLIANCE WITH IRC M 1505

3. CARBON MONOXIDE DETECTORS REQUIRED IRC R 315

4. STEEL COLUMNS SHALL BE MINIMUM SCHEDULE 40 R407.3

5. DECK SHALL BE BUILT PER TABLES 507.2 , 507.2.1, 507.3, 507.6,  
507.5.1(1)&(2), 507.5, AND 507.6

6. STUDS SHALL BE CONTINUOUS BETWEEN FLOOR, CEILING AND OR  
ROOF DIAPHRAGMS R602.3

7. ADDED REQUIREMENTS FOR WINDOW FALL PROTECTION R312.2

8. NEW PROVISIONS FOR ATTACHMENT OF RAFTERS, TRUSSES AND  
ROOF BEAMS R802.3.1 R802.11

9. INSULATION REQUIRED FOR ALL BASEMENT WALLS ( INCLUDING  
UNFINISHED BASEMENTS) N1102.1

10. EXTERIOR WINDOWS/DOORS SHALL HAVE U-FACTOR 0.35 AND  
GLAZING SHALL HAVE SOLAR HEIGHT GAIN FACTOR OF 0.40 N1102.1

11. HOUSE LEAKAGE AND DUCT LEAKAGE PERFORMANCE STANDARDS  
EFFECTIVE JANUARY 1, 2014. A SAMPLE TESTING PROGRAM WILL BE  
IMPLEMENTED OCTOBER 1, 2012 KCBRC N1102.4.1.2 N1103.2.2

12. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE ( E.G.  
CAN LIGHTS IN ATTIC ) SHALL BE IC- RATED, LEAKAGE- RATED AND  
SEALED TO THE GYPSUM WALLBOARD N1102.4.4

13. PROGRAMMABLE THERMOSTAT REQUIRED N1103.1.1

14. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2 % AIR LEAKAGE  
RATE N1103.2.2.1

15. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE  
SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE KCBRC  
N1103.2.2

16. CERTAIN HOT WATER PIPES SHALL BE INSULATED N1103.4

17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR  
M1507.2

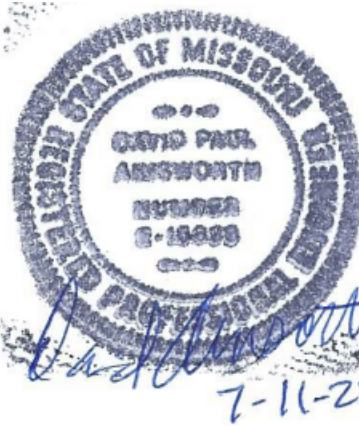
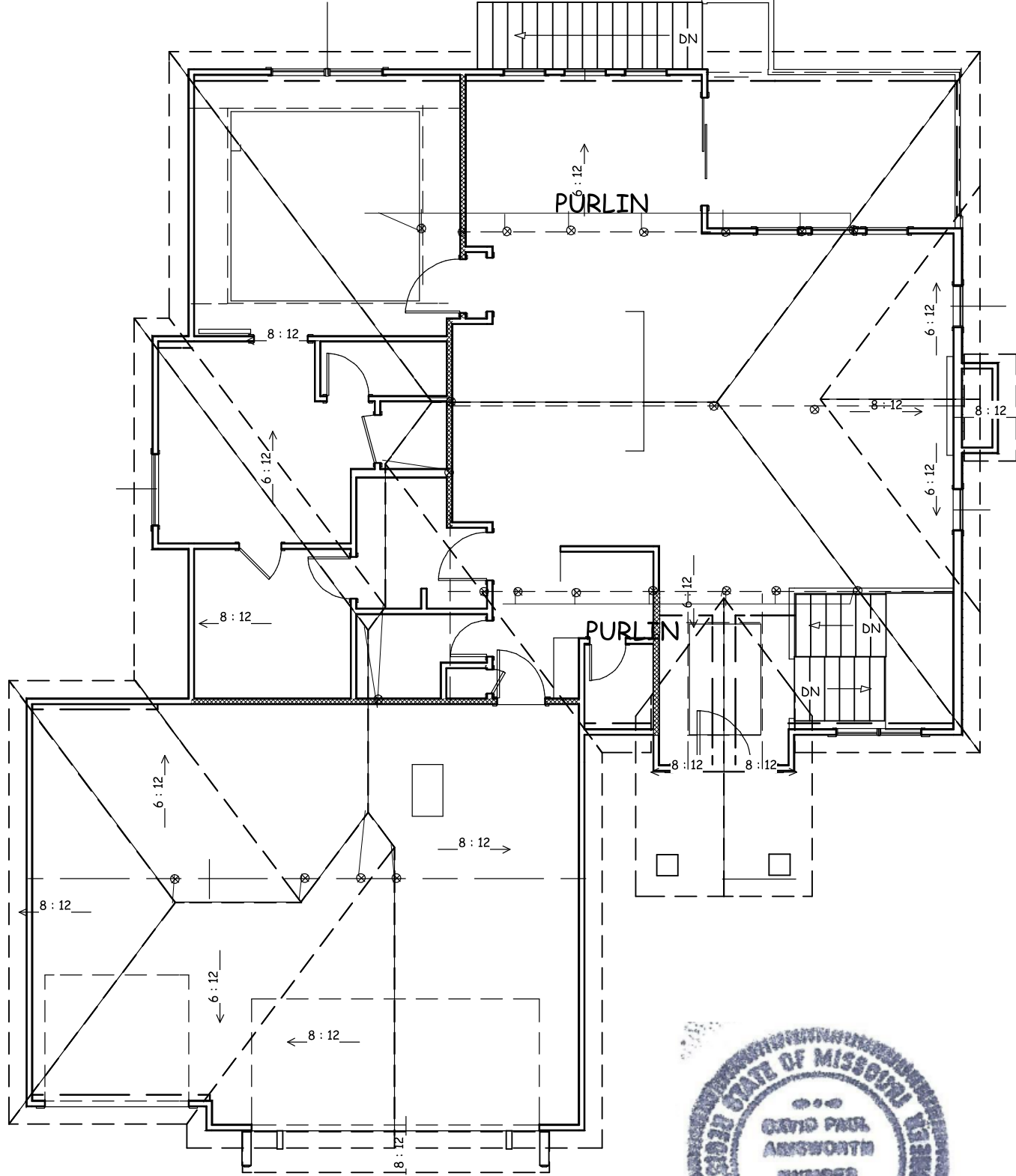
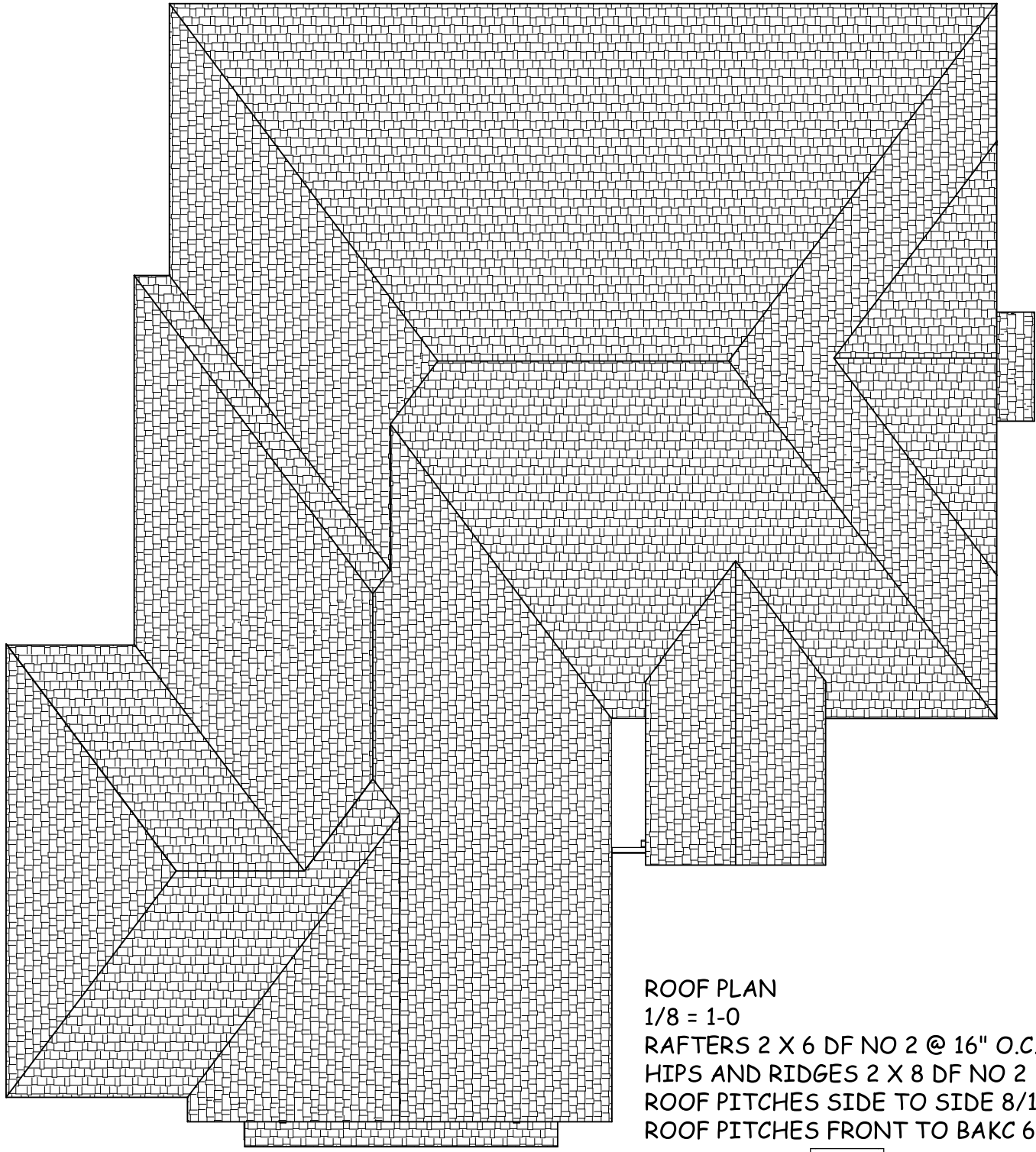
18. MAKEUP AIR SYSTEM REQUIRED FOR KITCHEN EXHAUST HOODS  
THAT EXCEED 400 CFM M1503.4

19. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL ( INCLUDING  
THE WALL BETWEEN THE HOUSE AND GARAGE ) SHALL NOT BE USED AS  
RETURN AIR PLENUMS

20. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING  
SPACE AND THE GARAGE M1601.6

21. A CONCRETE- ENCASED GROUNDING ELECTRODE ( 'UFER' GROUND )  
CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE E3608.1

22. COMPLIANCE WITH THE REQUIREMENT AND SHOW CONNECTION AS  
NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR  
UPLIFT PER IRC 802.11. ALL RAFTERS BE IN COMPLIANCE WITH IRC 502.11  
AMENDED RAYMORE CODE



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SCALE

1/4" = 1-0

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TABLE R602.10.3(1)  
BRACING REQUIREMENTS BASED ON WIND SPEED

EXPOSURE CATEGORY B • 35-FOOT MEAN ROOF HEIGHT • 10-FOOT WALL HEIGHT • 2 BRACED WALL LINES		MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE*				
Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing* (feet)	Method LIB*	Method GB	Methods DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFG, CS-PF, CS-SFB	Methods CS-WSP, CS-G, CS-PF
≤ 115		10	3.5	3.5	2.0	2.0
		20	6.5	6.5	3.5	3.5
		30	9.5	9.5	5.5	4.5
		40	12.5	12.5	7.0	6.0
		50	15.0	15.0	9.0	7.5
		60	18.0	18.0	10.5	9.0
		10	7.0	7.0	4.0	3.5
		20	12.5	12.5	7.5	6.5
		30	18.0	18.0	10.5	9.0
		40	23.5	23.5	13.5	11.5
		50	29.0	29.0	16.5	14.0
		60	34.5	34.5	20.0	17.0
		10	NP	10.0	6.0	5.0
		20	NP	18.5	11.0	9.0
		30	NP	27.0	15.5	13.0
		40	NP	35.0	20.0	17.0
		50	NP	43.0	24.5	21.0
		60	NP	51.0	29.0	25.0

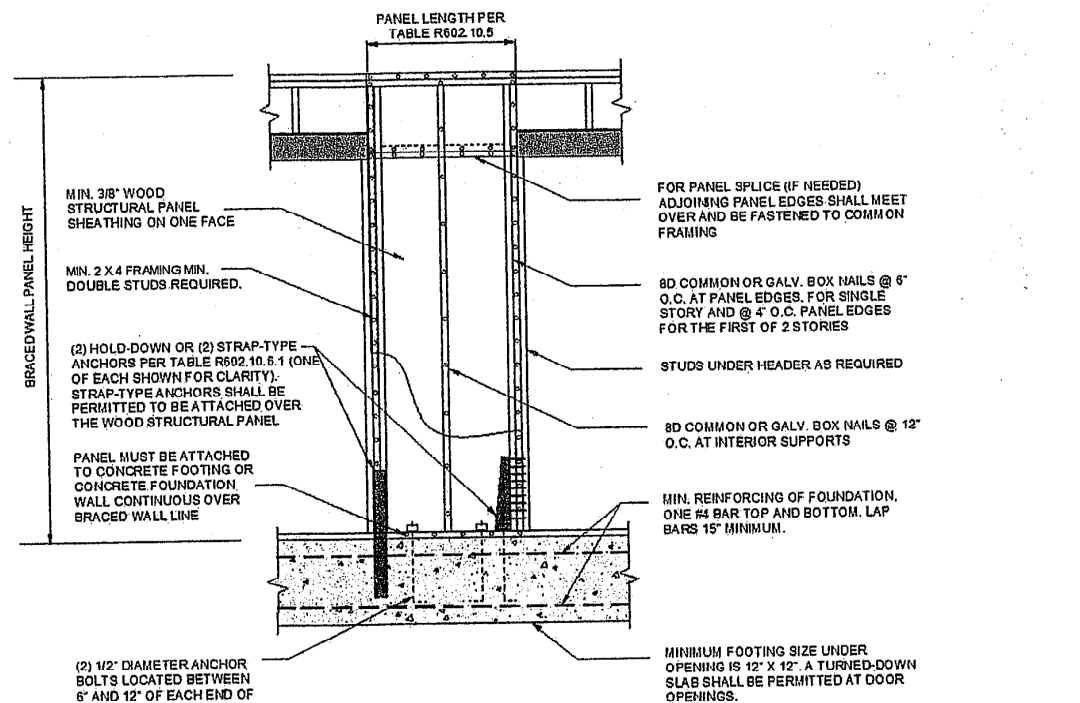


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL

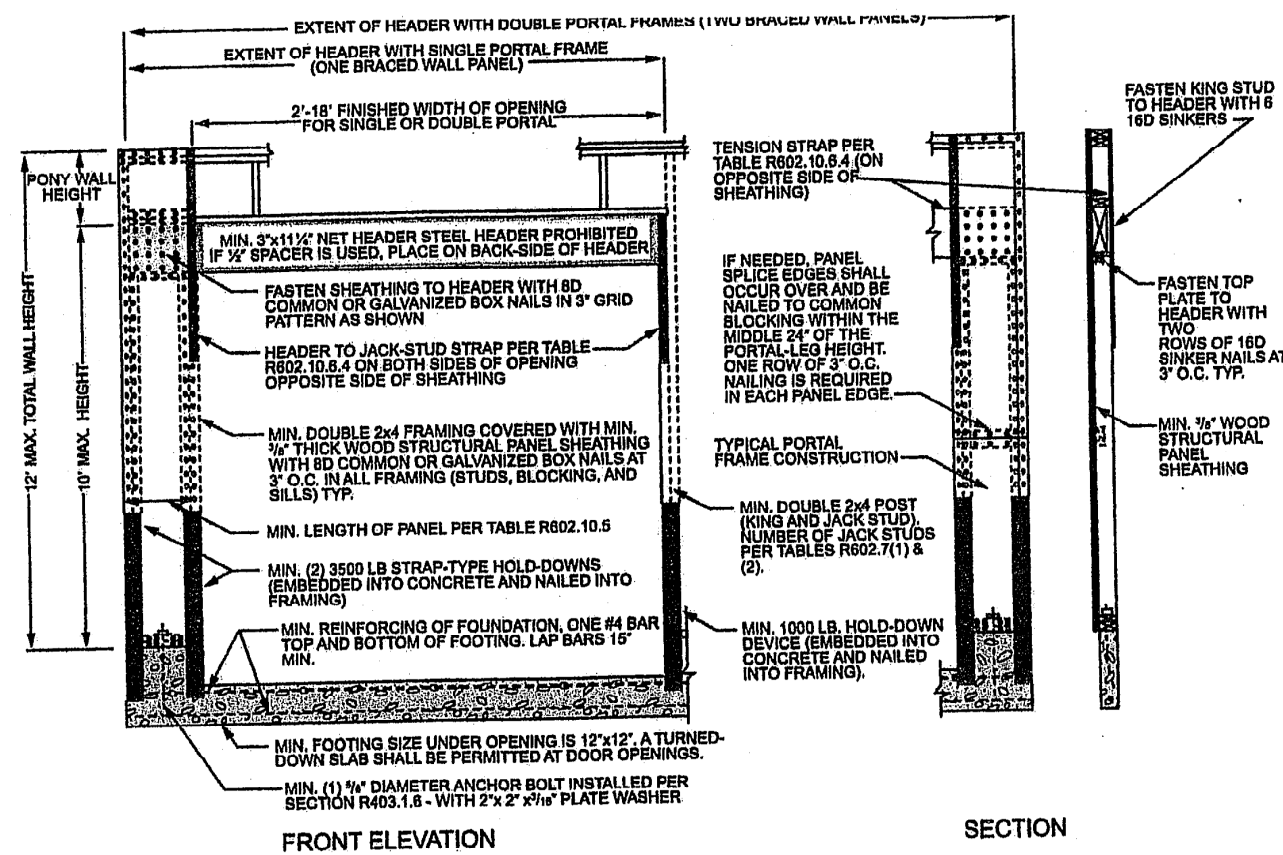


FIGURE R602.10.6.2  
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

TABLE R602.10.4  
BRACING METHODS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA*	
Intermittent Bracing Methods	LIB Let-in-bracing		Fasteners Wood: 2-8d common nails or 3-8d (2 1/2\"/>	Spacing Wood: per stud and top and bottom plates Metal: per manufacturer
	DWB Diagonal wood boards		2-8d (2 1/2\"/>	Per stud
	WSP Wood structural panel (See Section R604)		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6\"/>
	BV-WSP Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)		8d common (2 1/2\"/>	4\"/>
	SFB Structural fiberboard sheathing		1 1/2\"/>	3\"/>
	GB Gypsum board		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\"/>
	PBS Particleboard sheathing (See Section R605)		For 1/2\"/>	3\"/>
	PCP Portland cement plaster		See Section R703.7 for maximum 16\"/>	6\"/>
	HPS Hardboard panel siding		1 1/2\"/>	4\"/>
	ABW Alternate braced wall		See Section R602.10.6.1	See Section R602.10.6.1

TABLE R602.10.5  
MINIMUM LENGTH OF BRACED WALL PANELS

METHOD (See Table R602.10.4)	MINIMUM LENGTH* (inches)						CONTRIBUTING LENGTH (inches)
	6 feet	8 feet	10 feet	11 feet	12 feet	Actual <sup>a</sup>	
DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP	48	48	48	53	58	Double sided = Actual Single sided = 0.5 x Actual	
GB	48	48	48	53	58	Actual <sup>a</sup>	
LIB	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48
	SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub> , ultimate design wind speed < 140 mph	32	32	34	NP	NP	
CS-G	Adjacent clear opening height (inches)	24	27	30	33	36	Actual <sup>b</sup>
CS-WSP, CS-SFB	≤ 64	24	27	30	33	36	Actual <sup>b</sup>
	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	
	100	—	44	40	38	38	
	104	—	49	43	40	39	
	108	—	54	46	43	41	
	112	—	—	50	45	43	
	116	—	—	55	48	45	
	120	—	—	60	52	48	
	124	—	—	—	56	51	
	128	—	—	—	61	54	
	132	—	—	—	66	58	
	136	—	—	—	—	62	
	140	—	—	—	—	66	
	144	—	—	—	—	72	
METHOD (See Table R602.10.4)	Supporting roof only	16	16	16	Note c	Note c	48
	Supporting one story and roof	24	24	24	Note c	Note c	1.3 x Actual <sup>b</sup>
	PFG	24	27	30	Note d	Note d	1.3 x Actual <sup>b</sup>
	CS-PF	SDC A, B and C	16	18	20	Note e	Note e
		SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub>	16	18	20	Note e	Note e

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.  
NP = Not Permitted.  
a. Linear interpolation shall be permitted.  
b. Use the actual length where it is greater than or equal to the minimum length.  
c. 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 pony wall.  
d. Maximum header height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height shall be permitted to be increased to 12 feet with pony wall.  
e. 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 pony wall.

TABLE R602.10.4—continued  
BRACING METHODS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA*	
			Fasteners	Spacing
Intermittent Bracing Methods	PFH Portal frame with hold-downs		See Section R602.10.6.2	See Section R602.10.6.2
	PFG Portal frame at garage		See Section R602.10.6.3	See Section R602.10.6.3
Continuous Sheathing Methods	CS-WSP Continuously sheathed wood structural panel		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6\"/>
	CS-G <sup>a</sup> Continuously sheathed wood structural panel adjacent to garage openings		See Method CS-WSP	See Method CS-WSP
	CS-PF <sup>a</sup> Continuously sheathed portal frame		See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB <sup>a</sup> Continuously sheathed structural fiberboard		1 1/2\"/>	3\"/>

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/m<sup>2</sup>, 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>1</sub>, D<sub>2</sub> and D<sub>3</sub>.  
b. Applies to panels next to garage door opening where supporting gable and wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D<sub>1</sub> and D<sub>2</sub>, roof covering dead load shall not exceed 5 psf.  
c. Garage openings adjacent to a Method CS-G 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-G panel.  
d. Method CS-SFB does not apply in Seismic Design Categories D<sub>1</sub>, D<sub>2</sub> and D<sub>3</sub>.  
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>1</sub> through D<sub>2</sub> only.

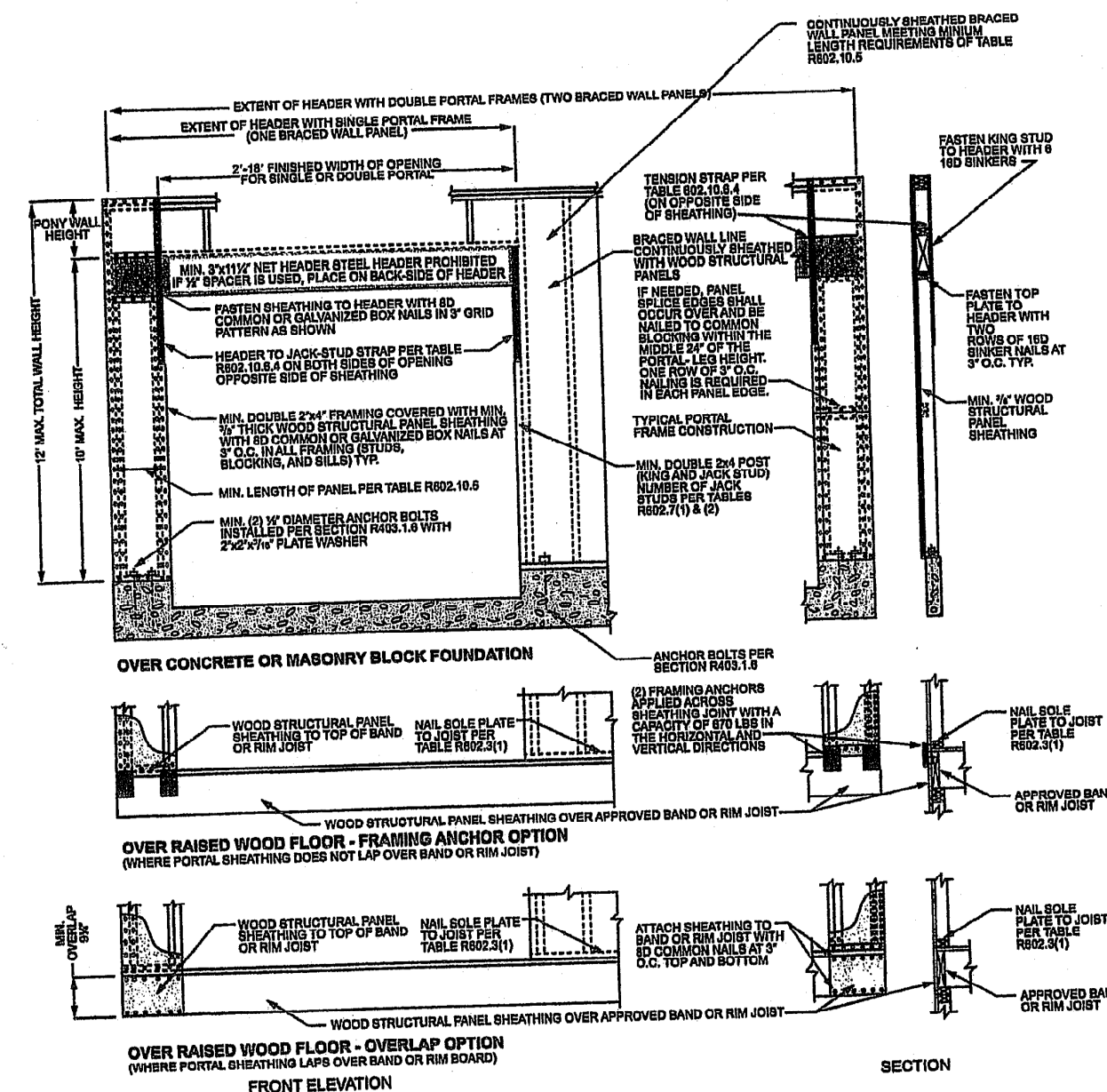


FIGURE R602.10.6.4  
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

