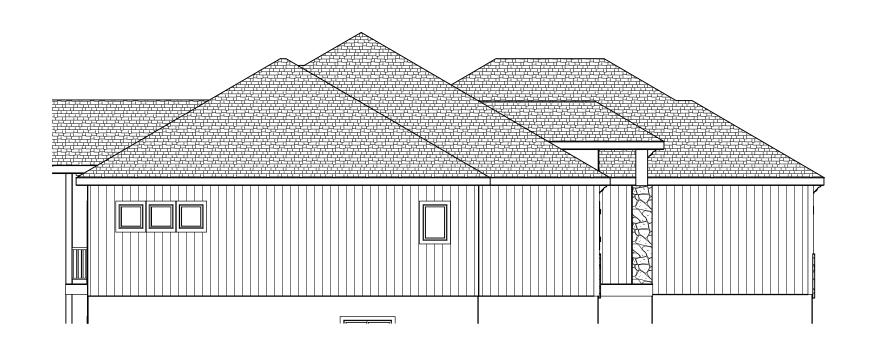
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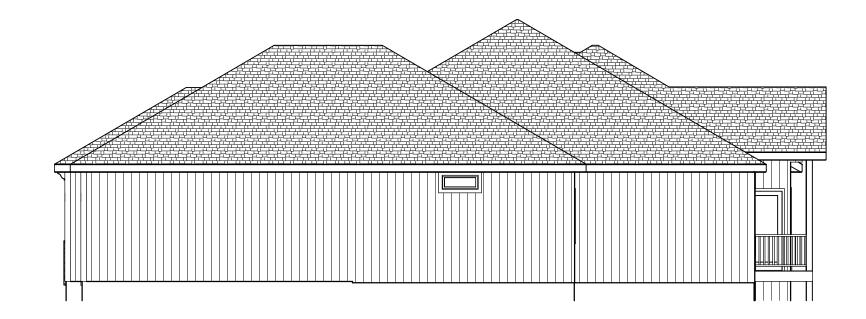
SHEET NO.

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FRONT EL. STUCCO AND STONE





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LEFT EL. 1/8 = 1-0



3 SIDES LP PANEL SIDING

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RIGHT EL.

1/8 = 1-0

REAR EL. 1/8 = 1-0

12'-4"

- 10'-8" —

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

NICK ZVACEK HOMES BAXTON T 80 SUMMIT VIEW FARMS 2319 SW SERENA PLACE LEE SUMMIT MO

SCALE

07

1/4" = 1-0

DATE

3-18-24

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1/4" = 1-0

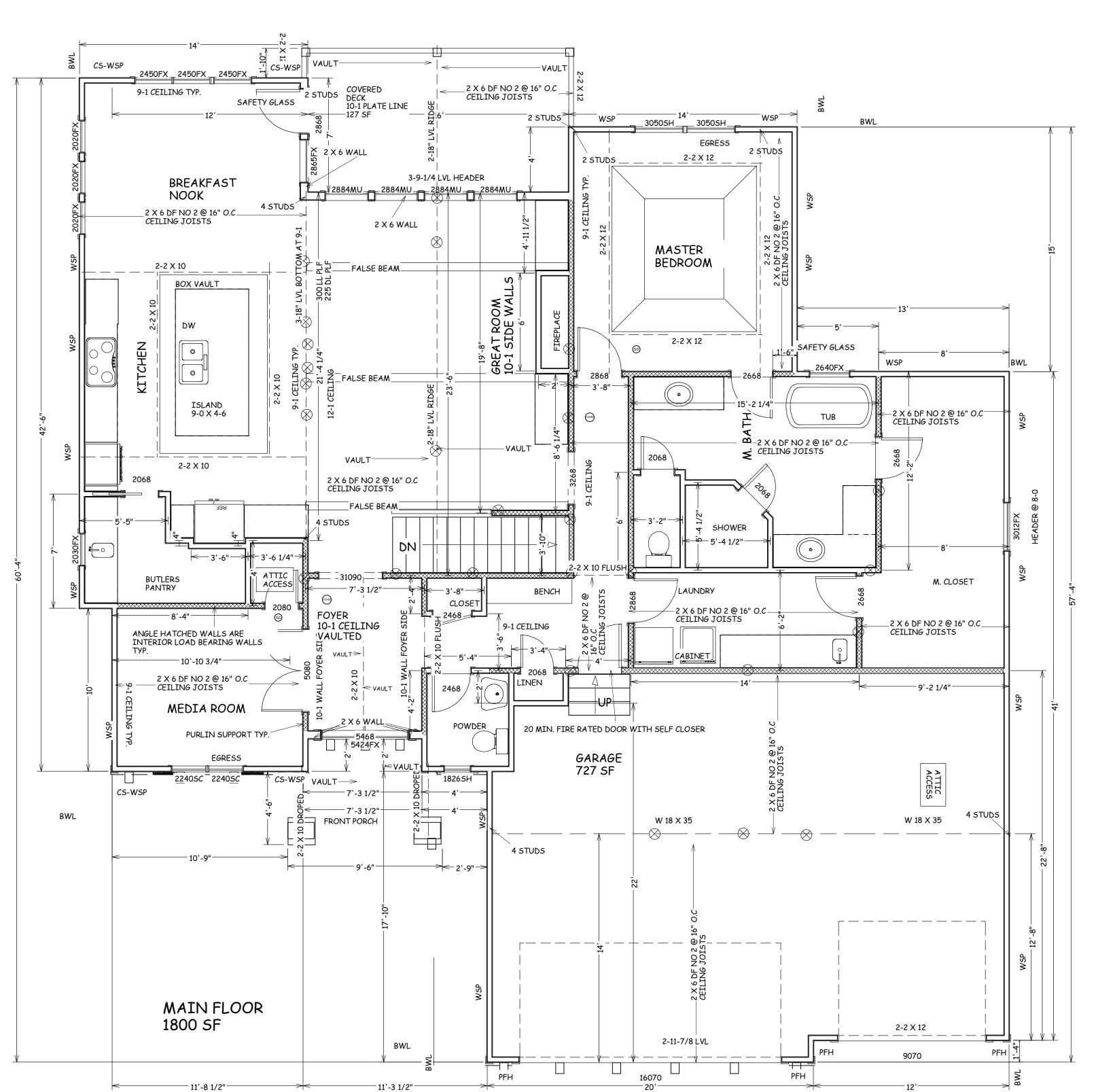
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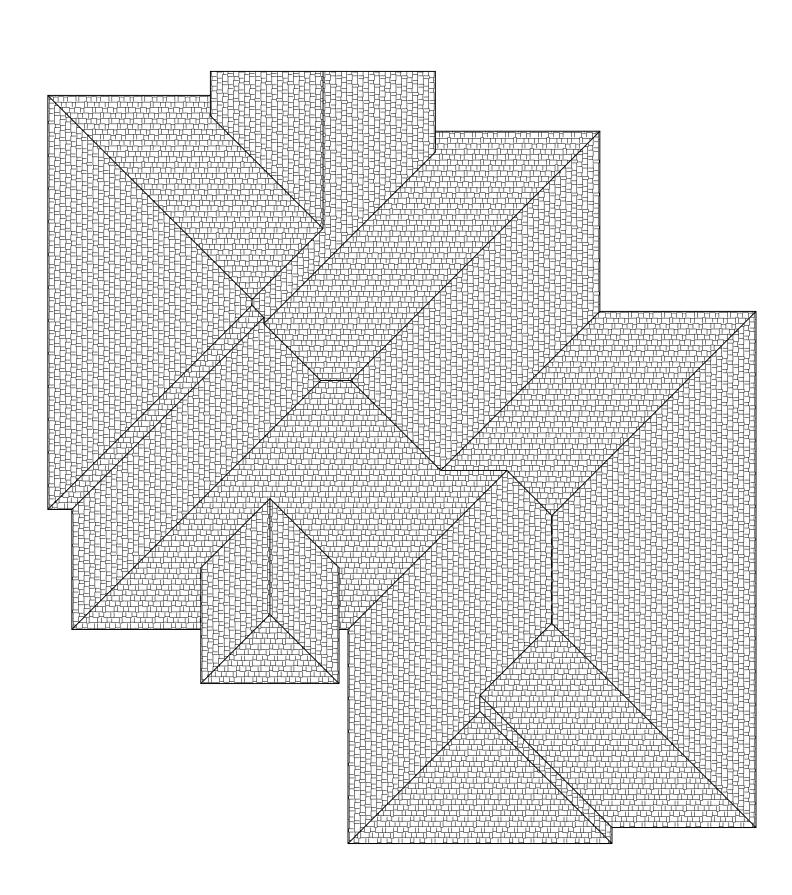
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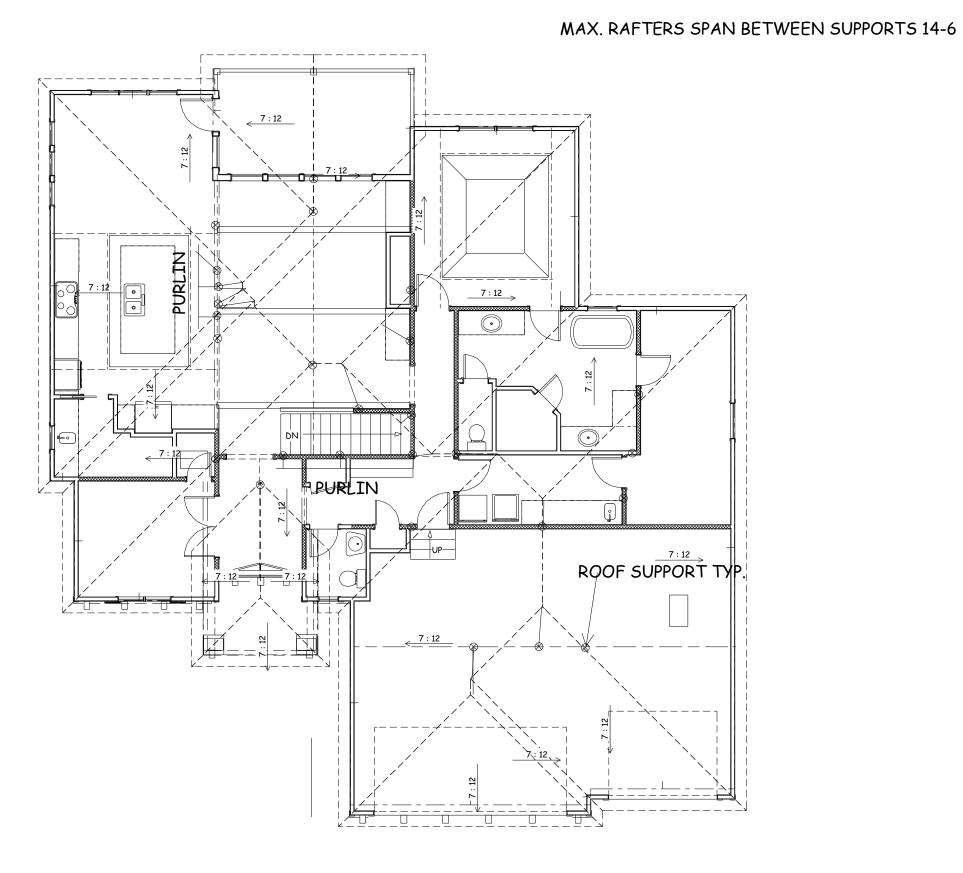
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ROOF PLAN 1/8" = 1-0 ALL ROOF PITCHES 7/12

RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP. HIPS AND RIDGES 2 X 8 DF NO 2 TYP.

12" SOFFITS TYP.



PURLIN PLAN 1/8" = 1-0 ALL ROOF PITCHES 7/12

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OF MISS

DAVID E. MEZGER

PE-2018009531

DATE 3-18-24

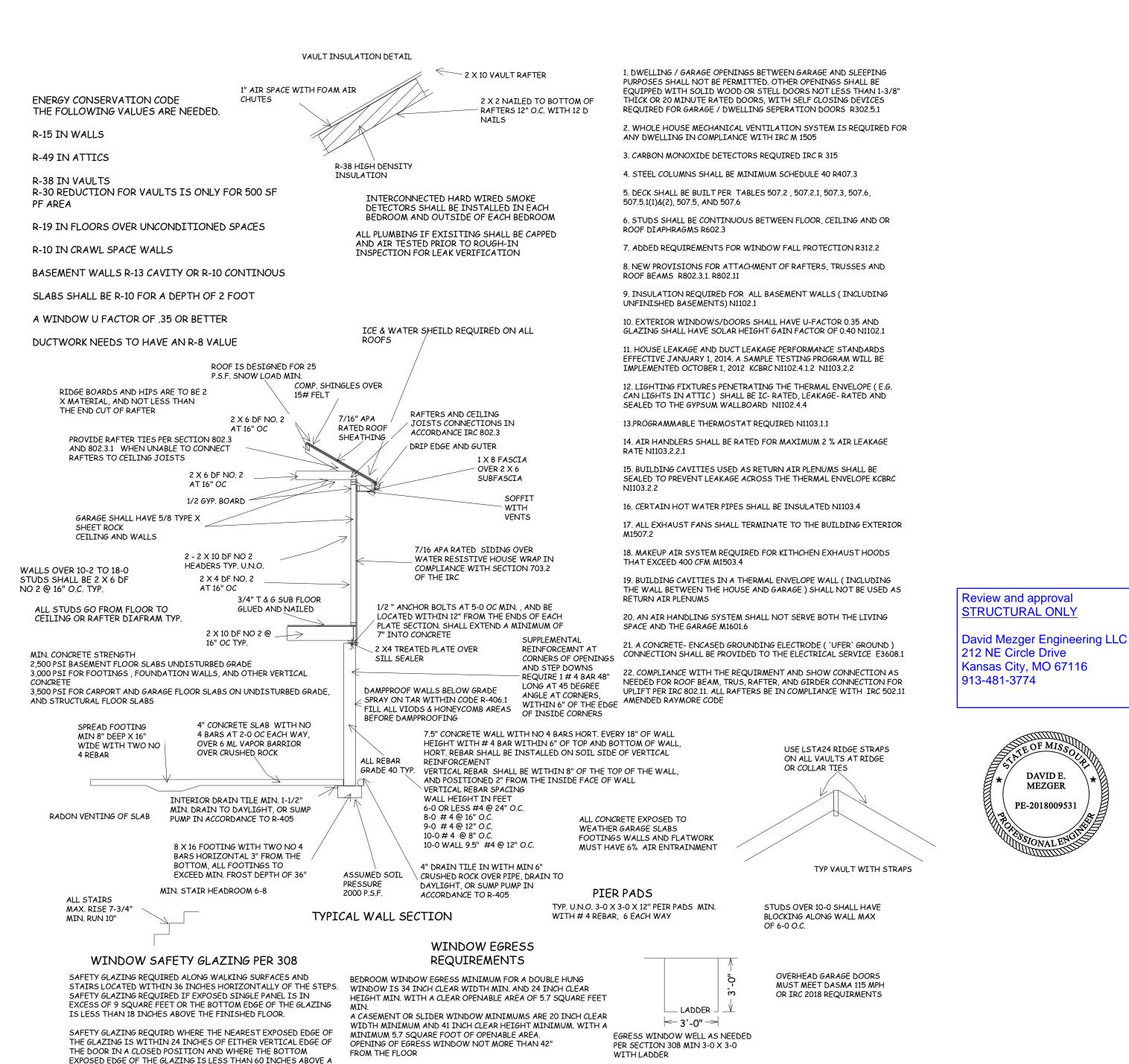
PLAN NO.

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 03/28/2024 2:32:12



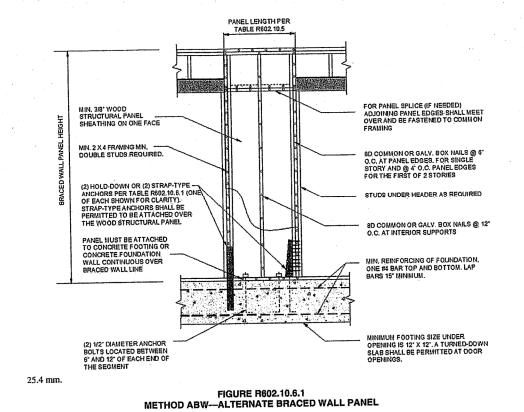
ALL POINT LOADS SHALL HAVE A MINIMUM OF 2 STUDS UNLESS NOTED OTHERWISE

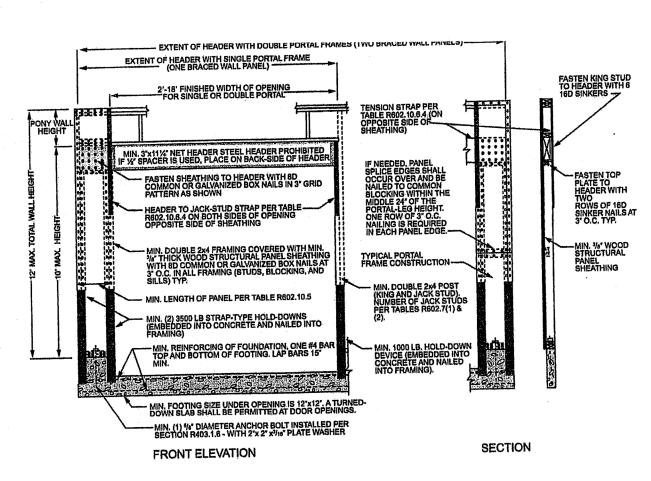
WALKING SURFACE, SAFETY OR TEMPERED GLAZING IS REQUIRED.

WINDOWS ARE TO HAVE FALL

PROTECTION PER IRC 312.2

	1	T/ BRACING REQUIR	ABLE R602.10.3(1) EMENTS BASED C	N WIND SPEED				
EXPOSURE CA SU-FOOT MEAN 10-FOOT WAL 2 BRACED WA	N ROOF HEIGHT L HEIGHT		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 ^e (feet)	Method LIB ^b	Method GB	Methods DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFH, PFC, CS-SFB	Methods CS-WSP, CS-G, CS-PF		
		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		
	A	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		
≤ 115		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		
	1 1	30	NP	27.0	15.5	13.0		
	l H	40	NP	35.0	20.0	17.0		
		50	NP	43.0	24.5	21.0		
		60	l NP	51.0	29.0	25.0		





4 mm, 1 foot = 304.8 mm.

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

				TABLE R602.10 BRACING METHO	DDS				
Γ	HETHORS MATERIAL		MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA*				
-	MET	HODS, MATERIAL	MINIMUM THICKNESS	rigonia	Fasteners	Spacing			
-		LIB	1 × 4 wood or approved metal straps			Wood: per stud and top and bottom plates			
		Let-in-bracing	at 45° to 60° angles for maximum 16" stud spacing		Metal strap: per manufacturer	Metal: per manufacturer			
		DWB Diagonal wood boards	³ / ₄ " (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			Exterior sheathing per Table R602.3(3)	6" edges 12" field			
		structural panel (See Section R604)	³/ ₈ "		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener			
	ethods	BV-WSP* Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	7/ ₁₆ "	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			
	Intermittent Bracing Methods	SFB Structural fiberboard sheathing	1/2" or 25/32" for maximum 16" stud spacing		$1^1 l_2'' \log \times 0.12''$ dia. (for $^1 l_2''$ thick sheathing) $1^3 l_4'' \log \times 0.12''$ dia. (for $^{25} l_{32}''$ thick sheathing) galvanized roofing nails	3" edges 6" field			
1	mitten				Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7" edges (including top			
	Inter	GB Gypsum board	1/2"		Nails or screws per Table R702.3.5 for interior locations	and bottom plates) 7"			
	PBS Particleboard sheathing (See Section R605)	3/8" or 1/2" for maximum 16" stud spacing		For ³ / ₈ ", 6d common (2" long × 0.113" dia.) nails For ¹ / ₂ ", 8d common (2 ¹ / ₂ " long × 0.131" dia.) nails	3" edges 6" field				
	PCP Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		1½" long, 11 gage, ½,6" dia. head nails or ½" long, 16 gage staples	6" o.c. on all framing members				
		HPS Hardboard panel siding	7/16" for maximum 16' stud spacing		0.092" dia., 0.225" dia. head nails with length to accommodate 1 1/2" penetration into studs	4" edges 8" field			
		ABW Alternate 3/8"			See Section R602.10.6.1	See Section R602.10.6.1			

MINIMUM LEN METHOD (See Table R602.10.4)			MIN	CONTRIBUTING LENGTH				
					(Inches)			
•	ŀ	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 ^b	
	GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actua	
	LIB	55	62	69	NP	NP	Actual ⁶	
	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48	
ABW	SDC D ₀ , D ₁ and D ₂ , ultimate design wind speed < 140 mph	32	32	34	NP	NP		
	CS-G	24	27	30	33	36	Actual ^b	
	Adjacent clear opening height (inches)							
	≤ 64	24	27	30	33	36		
	68	26	27	30	33	36		
	72	27	27	30	33	36	1	
	76	30	29	30	33	36]	
	80	32	30	30	33	36		
	84	35	32	32	33	36	Actual ^b	
	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		
	104		49	43	40	39		
	108		54	46	43	41	_	
	112		<u> </u>	50	45	43		
	116			55	48	45	_	
	120			60	52	48	-	
	124				56	51 54		
	128				61	54		
	132				66	62		
	136					66		
	140	-		<u> </u>		72	-	
	144		<u> </u>	ortal heade	holisht	12		
	METHOD	8 feet	9 feet	10 feet	11 feet	12 feet	-	
(See Table R602,10.4)		16	16	16	Note c	Note o		
PFH	Supporting roof only		24	24	Note c	Note o	48	
	Supporting one story and roo	24	27	30	Note d	Note		
	PFG SDC A B and C	16	18	20	Note e	Note 6		
CS-PF	SDC A, B and C SDC D ₀ , D ₁ and D ₂	16	18	20	Note e	Note 6		

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.

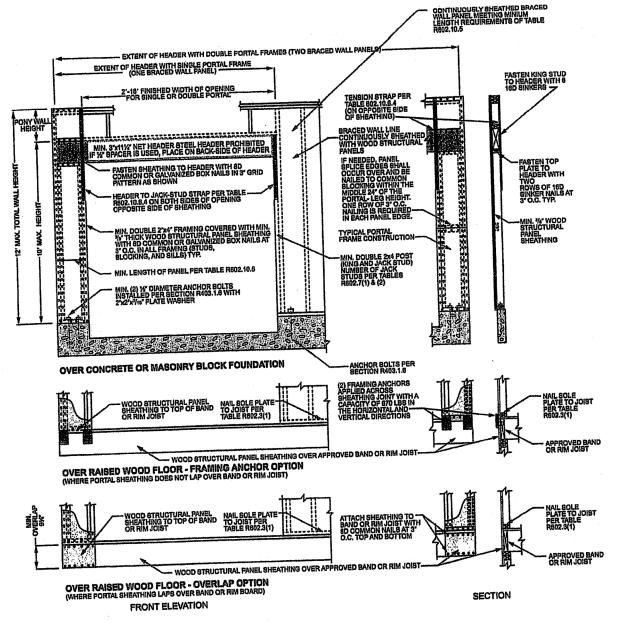
c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.

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.

BRACE WALL DETAILS WIND SPEED 115 MPH WIND EXPOSURE A SEISMIC DESIGN CAEGORY A

METHODS, MATERIAL				CONNECTION	CTION CHITERIA-	
		MINIMUM THICKNESS	FIGURE	Fasteners	Specing	
Methods	PFH Portal frame with hold-downs	³/ ₈ "		See Section R602.10.6.2	See Section R602.10.6.2	
Intermittent Bracing Methods	PFG Portal frame at garage	⁷ / ₁₆ "		See Section R602.10.6.3	See Section R602.10.6.3	
	CS-WSP	3/8"		Exterior sheathing per Table R602.3(3)	6" edges 12" field	
Continuous Sheathing Methods	Continuously sheathed wood structural panel			Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener	
	CS-G ^{b,c} Continuously sheathed wood structural panel adjacent to garage openings	3/8″		See Method CS-WSP	See Method CS-WSP	
	CS-PF Continuously sheathed portal frame	⁷ / ₁₆ "		See Section R602.10.6.4	See Section R602.10.6.4	
	CS-SFB ^d Continuously sheathed structural fiberboard	1/2" or ²⁵ / ₃₂ " for maximum 16" stud spacing		$1\frac{1}{2}$ " long × 0.12" dia. (for $\frac{1}{2}$ " thick sheathing) $1\frac{3}{4}$ " long × 0.12" dia. (for $\frac{25}{12}$ " thick sheathing) galvanized roofing nails	3" edges 6" field	
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 ₀ , D ₁ and D ₂ . 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 ₀ , D ₁ and D ₂ , roof covering dead load shall not exceed 3 psf.						



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

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

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David Mezger Engineering LLC 212 NE Circle Drive Kansas City, MO 67116 913-481-3774



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

ARMS CE HOMES BAXTON SUMMIT VIEW F 9 SW SERENA PL/ LEE SUMMIT MO NICK 80 3 319 F ~

> SCALE 1/4" = 1-0

> > DATE 3-18-24

PLAN NO.

4071

SHEET NO.

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