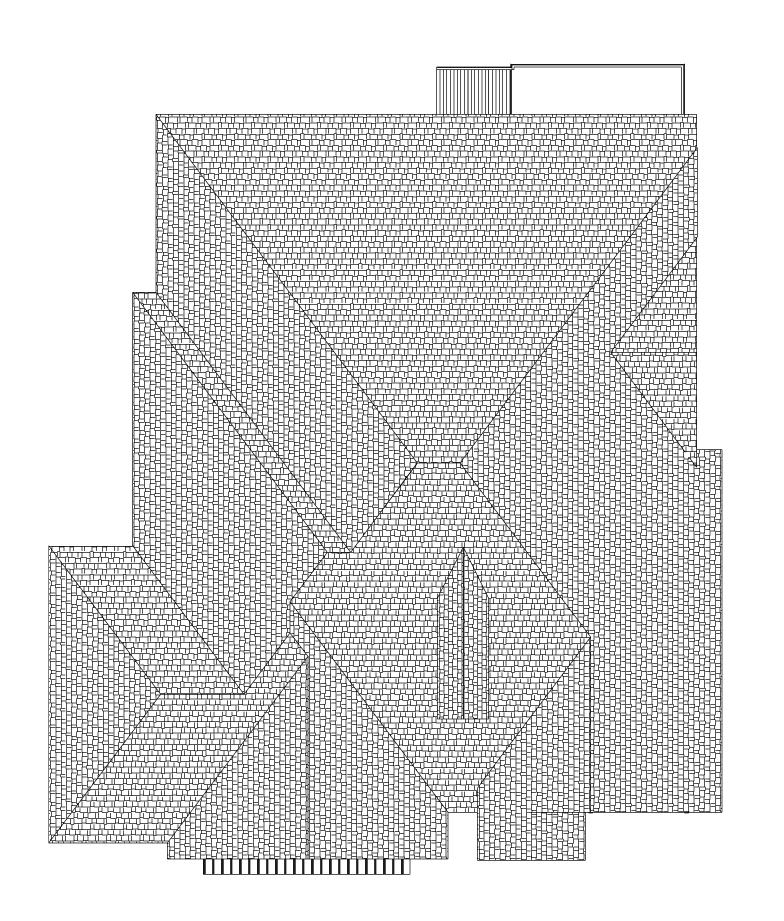
1 OF 4



ROOF PLAN

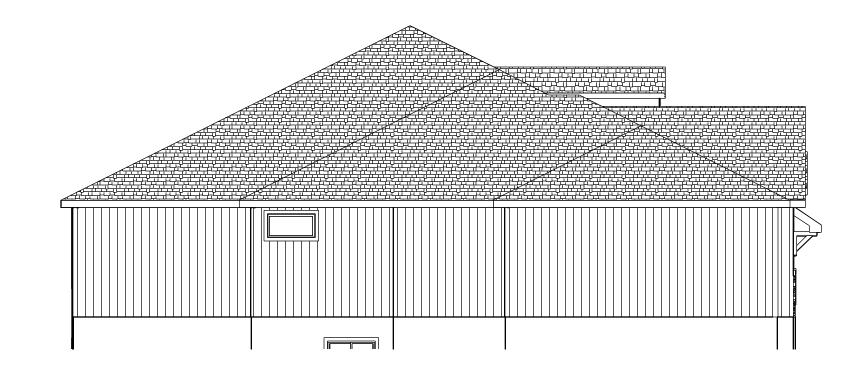
1/8 = 1-0

ROOF PITCHES 6/12 FRONT TO BACK

ROOF PITCHES 8/12 SIDE TO SIDE

RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.

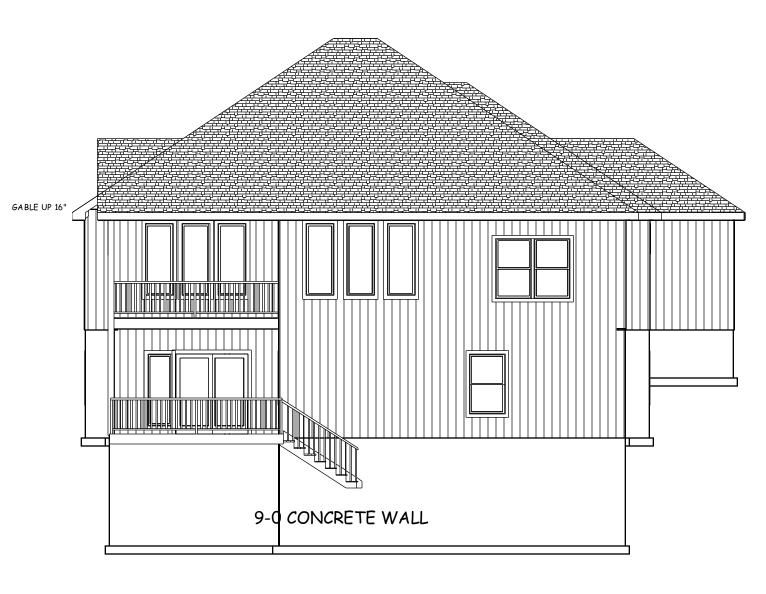
HIPS AND RIDGES 2 X 8 DF NO 2 TYP.



LEFT EL. 1/8 = 1-0



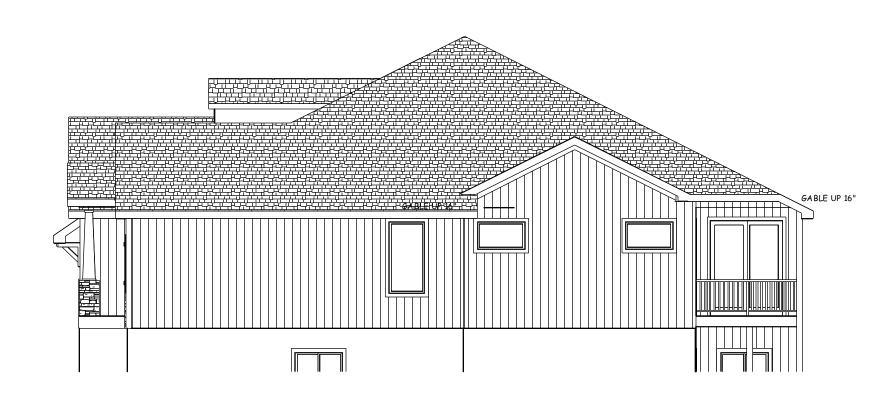
FRONT EL. STONE AND STUCCO ELEVATION D



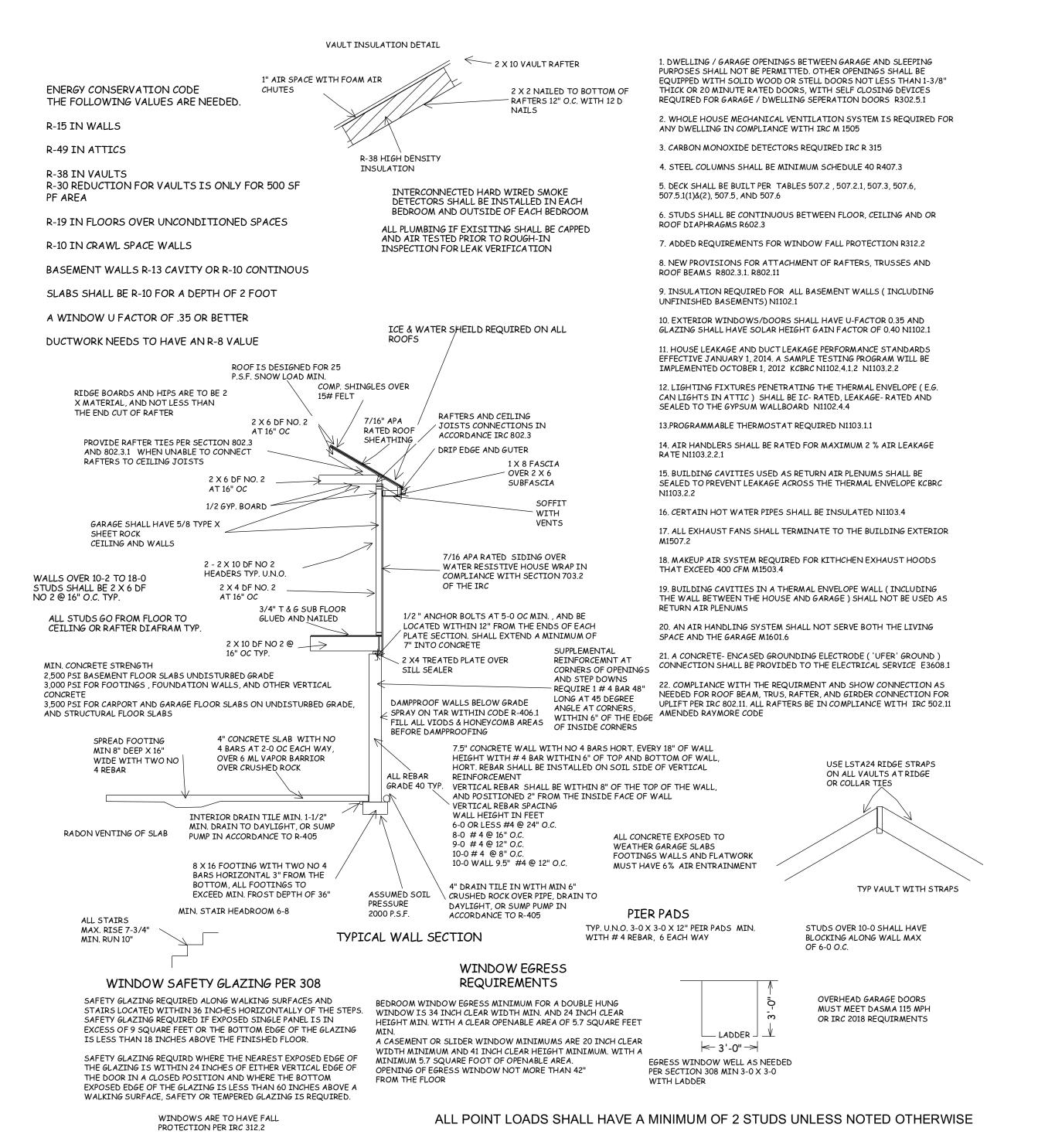
REAR EL. 1/8 = 1-0

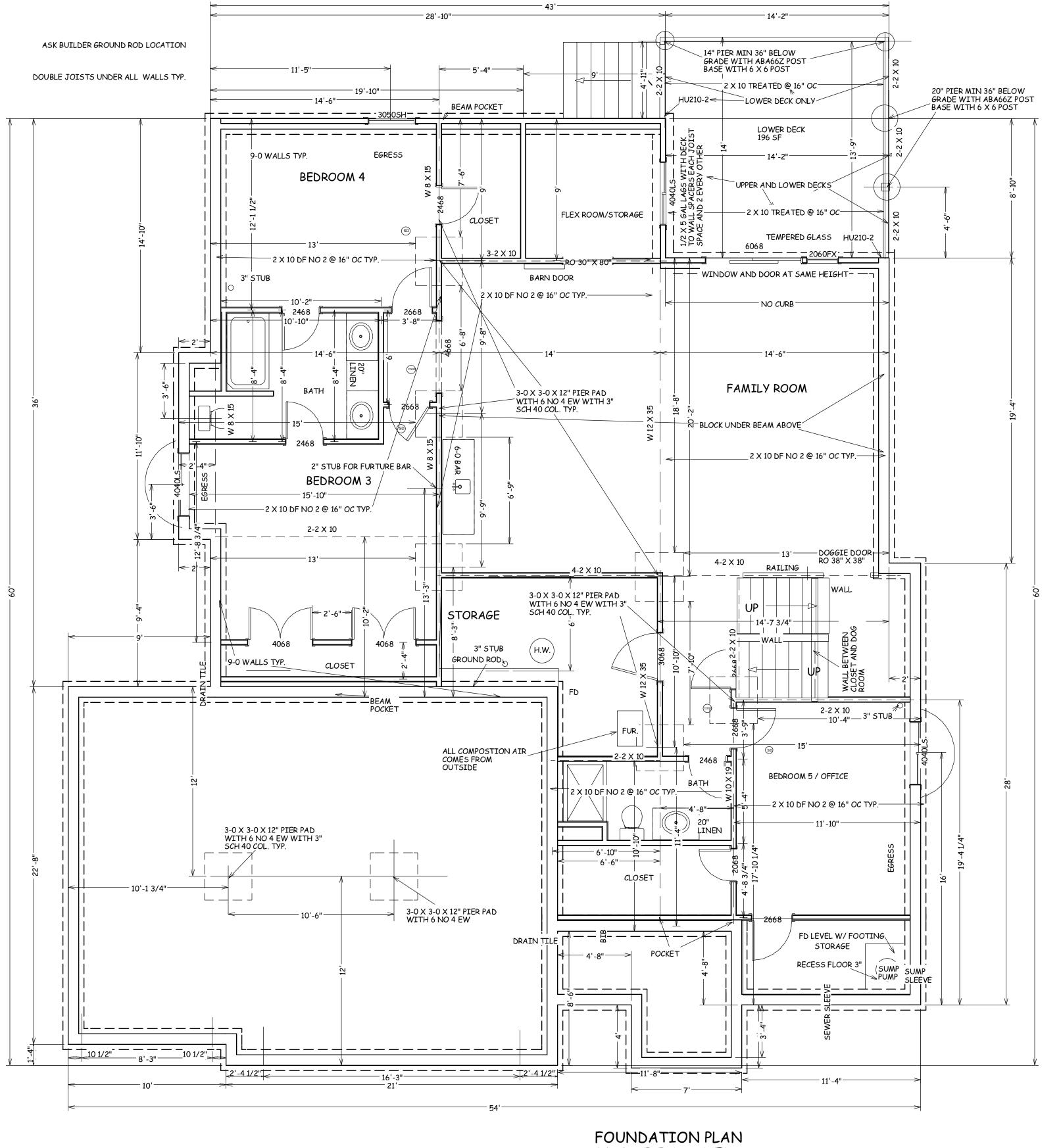
3 SIDES LP PANEL SIDING





RIGHT EL. 1/8 = 1-0





FOUNDATION PLAN 1420 SF FINISHED 167 SF STORAGE

Review and Approval
Structural Only

David Mezger Engineering LLC
212 NE Circle Dr.
Kansas City, MO 64116



BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL RESIDENTIAL CODE AND

TRUMARK CUSTOM HOMES KYLE IV LOT 128 WOODSIDE RIDGE 2123 NW KILLARNEY LN LFF SUMMIT MO

SCALE 1/4" = 1-0

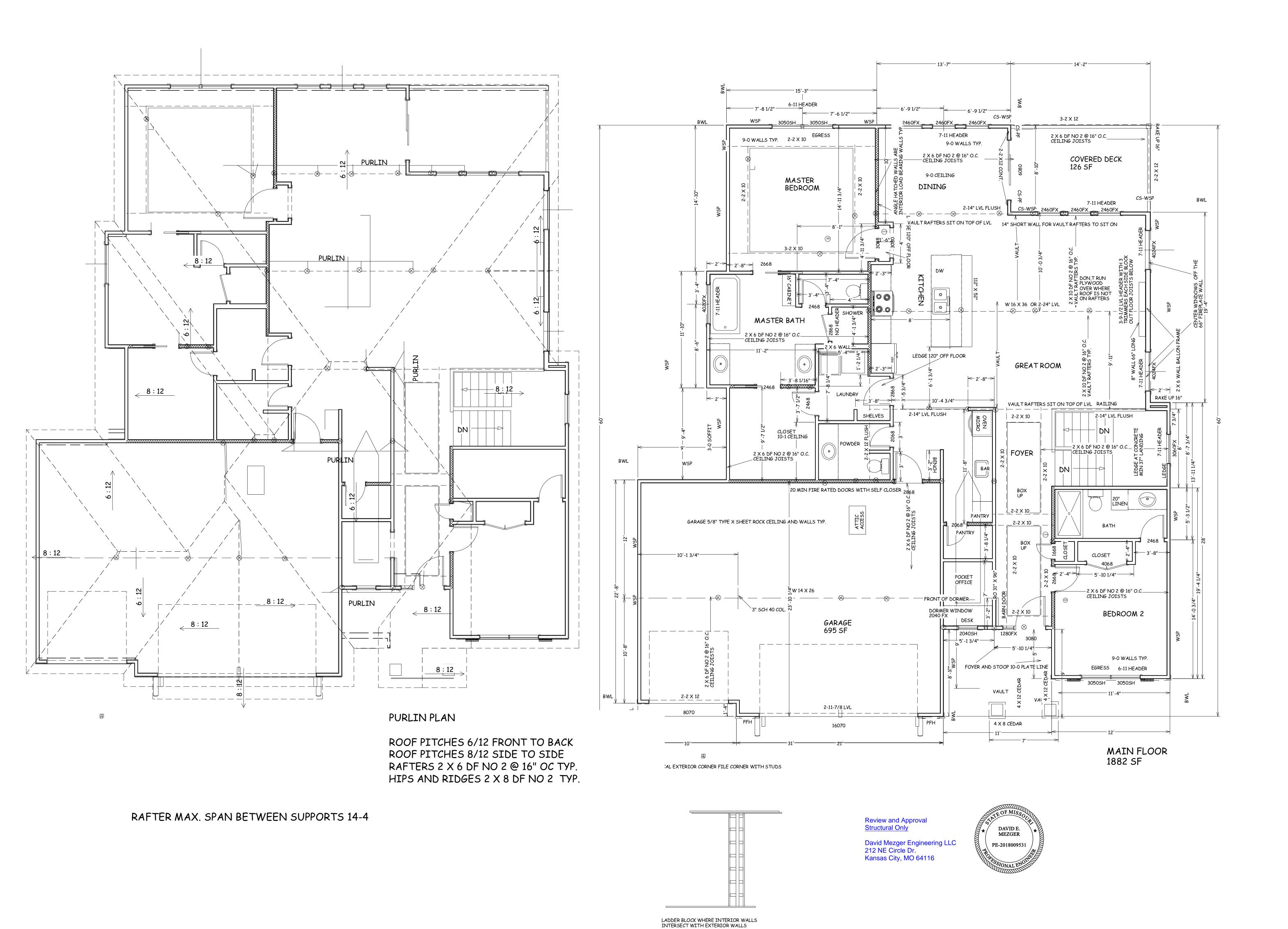
> DATE 1-8-25

PLAN NO.

4365

SHEET NO.

2 OF 4



BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL RESIDENTIAL CODE AND

TRUMARK CUSTOM HOMES KYLE IV LOT 128 WOODSIDE RIDGE 2123 NW KILLARNEY LN LEE SUMMIT MO

SCALE 1/4" = 1-0

> DATE 1-8-25

PLAN NO.

4365

3 OF 4

SHEET NO.

DATE 1-8-25

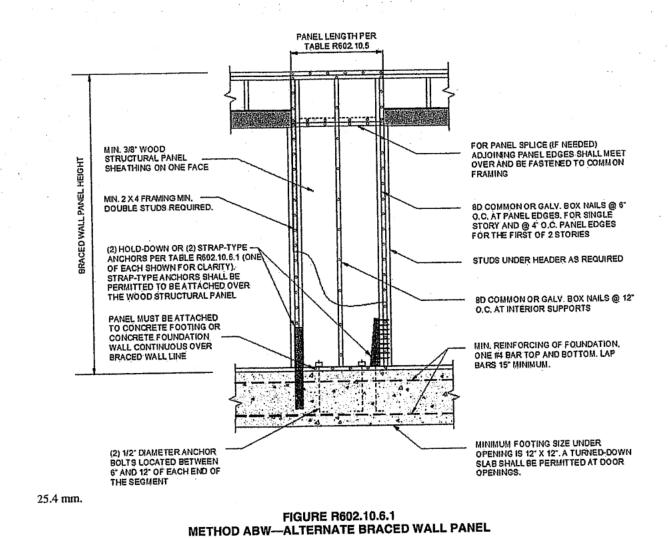
PLAN NO.

4365

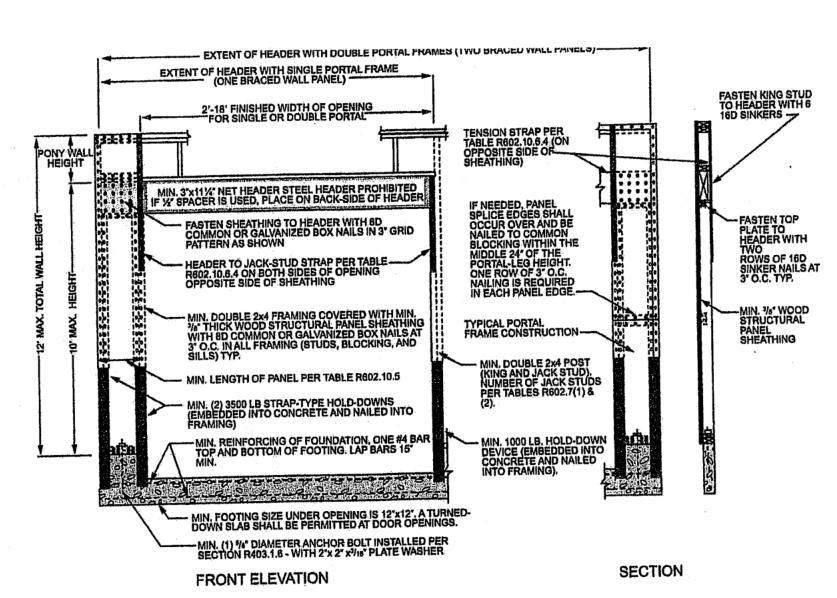
SHEET NO.

4 OF 4

602.10.3(1)	ON WIND SPEED							TABLE BRACING
MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE					METHODS, MATERIAL		MINIMUM THICKNESS	FIGURE
hod LIB ^b	Method QB	Methods DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFH, PFC, CS-SFB	Methods CS-WSP, CS-G, CS-PF			LIB Let-in-bracing	1 × 4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing	
3.5	3.5	2.0	2.0			DWB	3/4" (1" nominal) for	**************************************
6.5	6.5	3.5	3.5			Diagonal	maximum 24" stud spacing	
9.5	9.5	5.5	4.5			wood boards	stud spacing	
12.5	12.5	7.0	6.0		1	WSP Wood	3/8"	
15.0	15.0	9.0	7.5		1	structural panel		
18.0	18.0	10.5	9,0	·	1	(See Section R604)		F4 1
7.0	7.0	4.0	3.5			BV-WSP°		
12.5	12.5	7.5	6.5			Wood structural	7/16"	
18.0	18.0	10.5	9.0	·		panels with stone or masonry vencer		See Figure R602
23.5	23.5	13.5	11.5	,	Pod	(See Section		
29.0	29.0	16.5	14.0		Met	R602.10.6.5)		
34.5	34.5	20.0	17.0		Intermittent Bracing Methods	SFB Structural	1/2" or 25/32" for maximum 16" stud spacing	
NP	10.0	6.0	5.0		Jac.	fiberboard		
NP	18.5	11.0	9.0		ii.	sheathing		
NP	27.0	15.5	13.0		litte			
NP	35.0	20.0	17.0		l E	GB	1/2"	
NP	43.0	24.5	21.0		=	Gypsum board		
NP	51.0	29.0	25.0	<u>j</u>			ļ	
					,	PBS Particleboard sheathing (See Section R605)	³ / ₈ " or ¹ / ₂ " for maximum 16" stud spacing	
1					1	DCD	See Section R703.7 for	



50



4 mm, 1 foot = 304.8 mm.

≤ 115

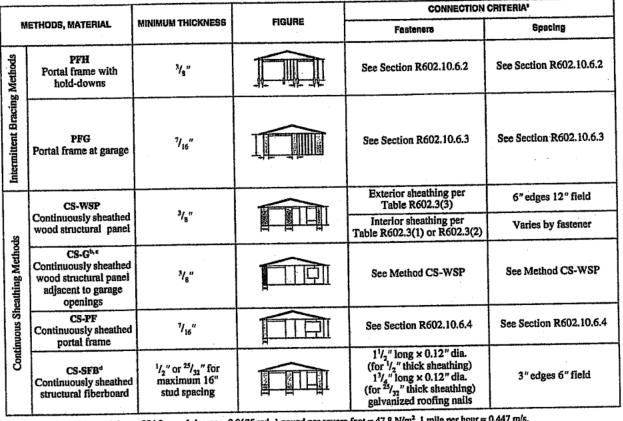
FIGURE R602.10.6.2 METHOD PFH-PORTAL FRAME WITH HOLD-DOWNS

			BRACING METHO	CONNECTION CRITERIA*				
ME	THODS, MATERIAL	MINIMUM THICKNESS	FIGURE	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 $(2^{1}/_{2}" \log \times 0.113" \text{ dia.})$ nails or 2 - $1^{3}/_{4}" \log \text{ staples}$	Per stud			
	WSP Wood			Exterior sheathing per Table R602.3(3)	6" edges 12" field			
	structural panel (See Section R604)	panel '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 " × 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 / ₂ " long × 0.12" dia. (for ¹ / ₂ " thick sheathing) 1 ³ / ₄ " long × 0.12" dia. (for ²⁵ / ₃₂ " thick sheathing) galvanized roofing nails	3" edges 6" field			
Intermittent	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	panel locations: /" ledges (including top			
,	PBS Particleboard sheathing (See Section R605)	³ / ₈ " or ¹ / ₂ " for maximum 16" stud spacing		For 3I_8 ", 6d common (2" long × 0.113" dia.) nails For 1I_2 ", 8d common (2 1I_2 " long × 0.131" dia.) nails	3" edges 6" field			
	PCP Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		1 ¹ / ₂ " long, 11 gage, ⁷ / ₁₆ " dia. head nails or ⁷ / ₈ " long, 16 gage staples	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 braced wall	3/8"		See Section R602.10.6.1	See Section R602.10.6			

METHOD (See Table R602.10.4)		NGTH OF BRACED WALL PANELS MINIMUM LENGTH* (Inches) Wall Height					CONTRIBUTING LENGTH	
DWB, WSP, SFB, P	BS, PCP, HPS, BV-WSP	48	48	48	53	58	Actual ^b	
2,12,112,12	GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual	
	LIB	55	62	69	NP	NP	Actual ^b	
	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		
	76	30	29	30	33	36		
	80	32	30	30	33	36	1 .	
	84	35	32	32	33	36	_	
	88	38	35	33	33	36		
	92	43	37	35	35	36	4	
	96	48	41	38	36	36	Actual ^b	
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	48	-	
	120			60	52	51	- .	
	124	1 =			56	54	-	
	128		 -	1	61	58	_	
	132				- 00	62		
	136	 -				66		
	140		 -	 -		72		
	144	 		ortal heads	er helaht	1		
	METHOD able R602,10.4)	8 feet	9 feet	10 feet		12 feet	7	
(See 1	Supporting roof only	16	16	16	Note c	Note o	c 48 c 1.5 × Actual ^h	
PFH	Supporting one story and roo		24	24	Note c	Note o		
	PFG	24	27	30	Note d	Note		
	SDC A, B and C	16	18	20	Note e	Note 6	1.5 × Actual ^b	
CS-PF	SDC D ₀ , D ₁ and D ₂	16	18	20	Note e	Note 6		

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



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.

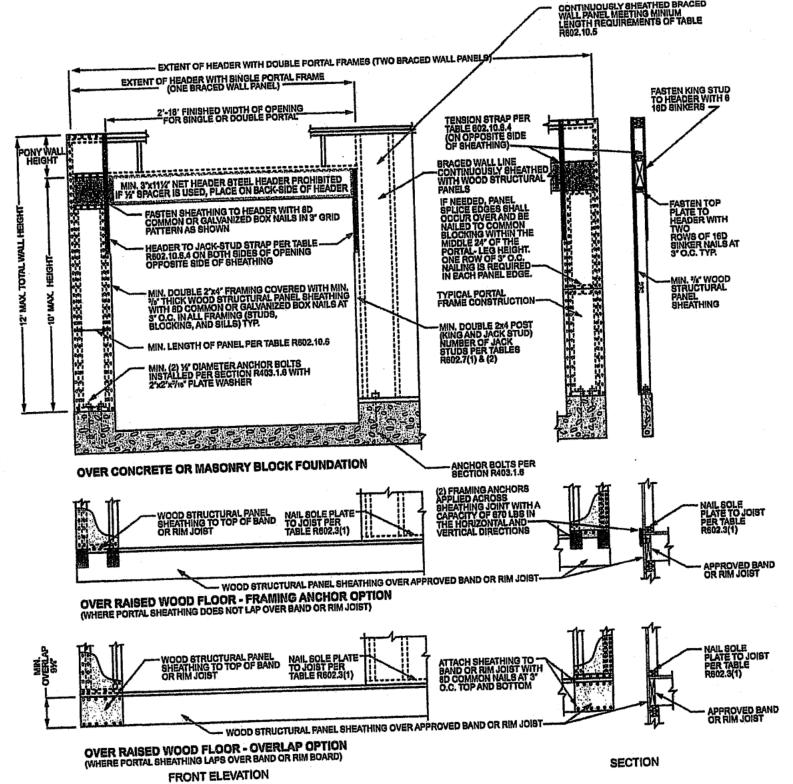
a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D₀, D₁ and D₂.

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 D₀, D₁ and D₂ roof covering dead load shall not exceed 3 psf.

c. Garage openings adjacent to a Method CS-Q 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-Q panel.

d. Method CS-SFB does not apply in Seismic Design Categories D₀, D₁ and D₂.

e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₀ through D₂ only.



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

Kansas City, MO 64116

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

PE-2018009531

Review and Approval Structural Only DAVID E. MEZGER David Mezger Engineering LLC 212 NE Circle Dr.