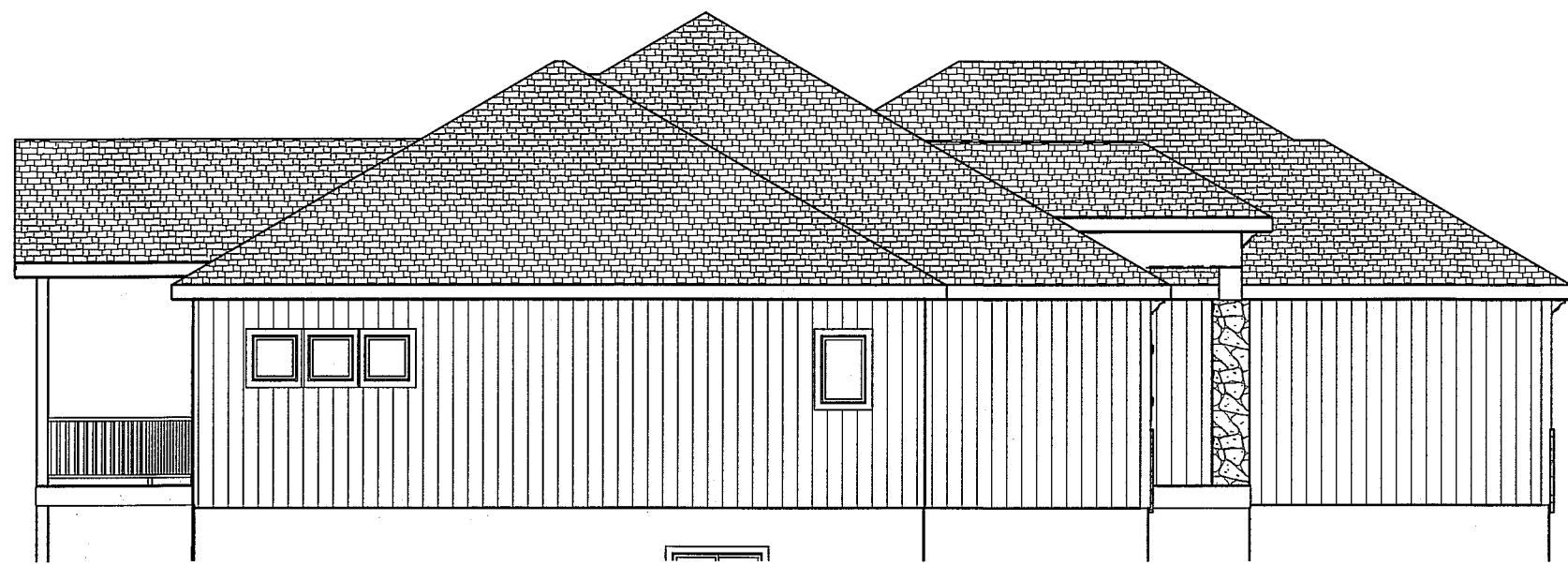
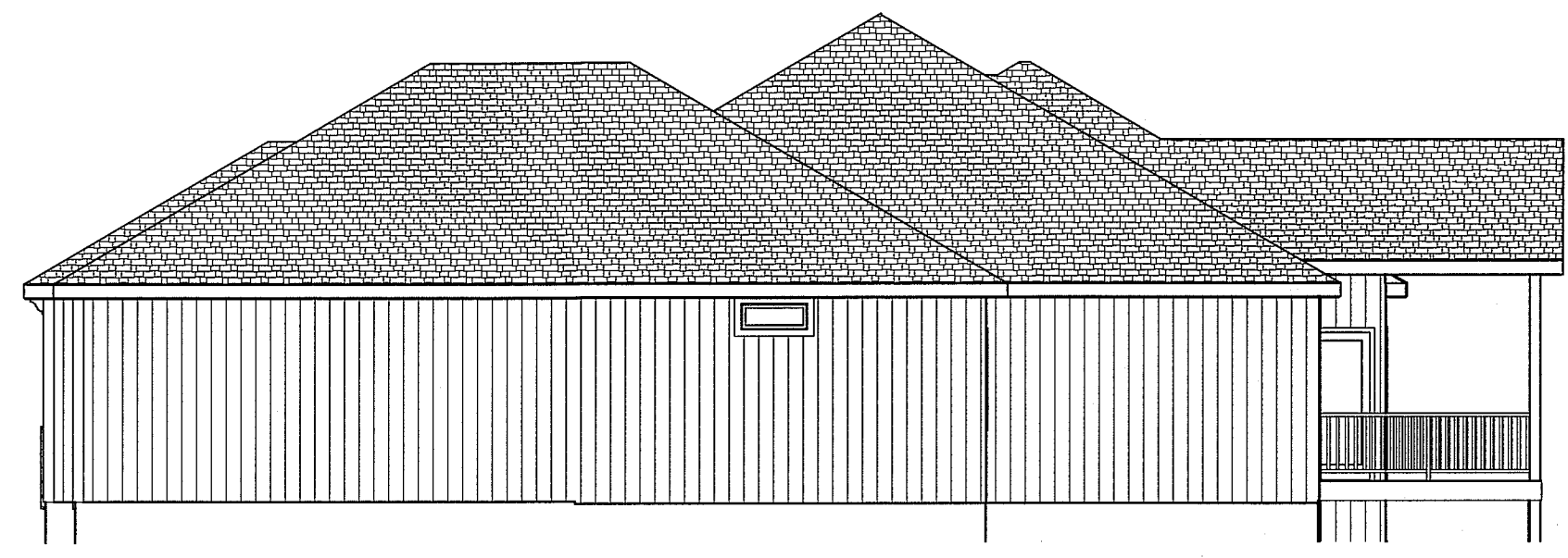




FRONT EL.



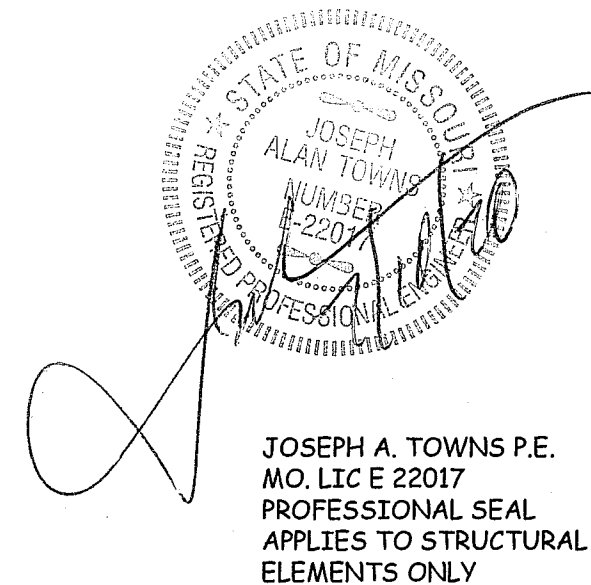
LEFT EL.
1/8" = 1'-0"



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



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



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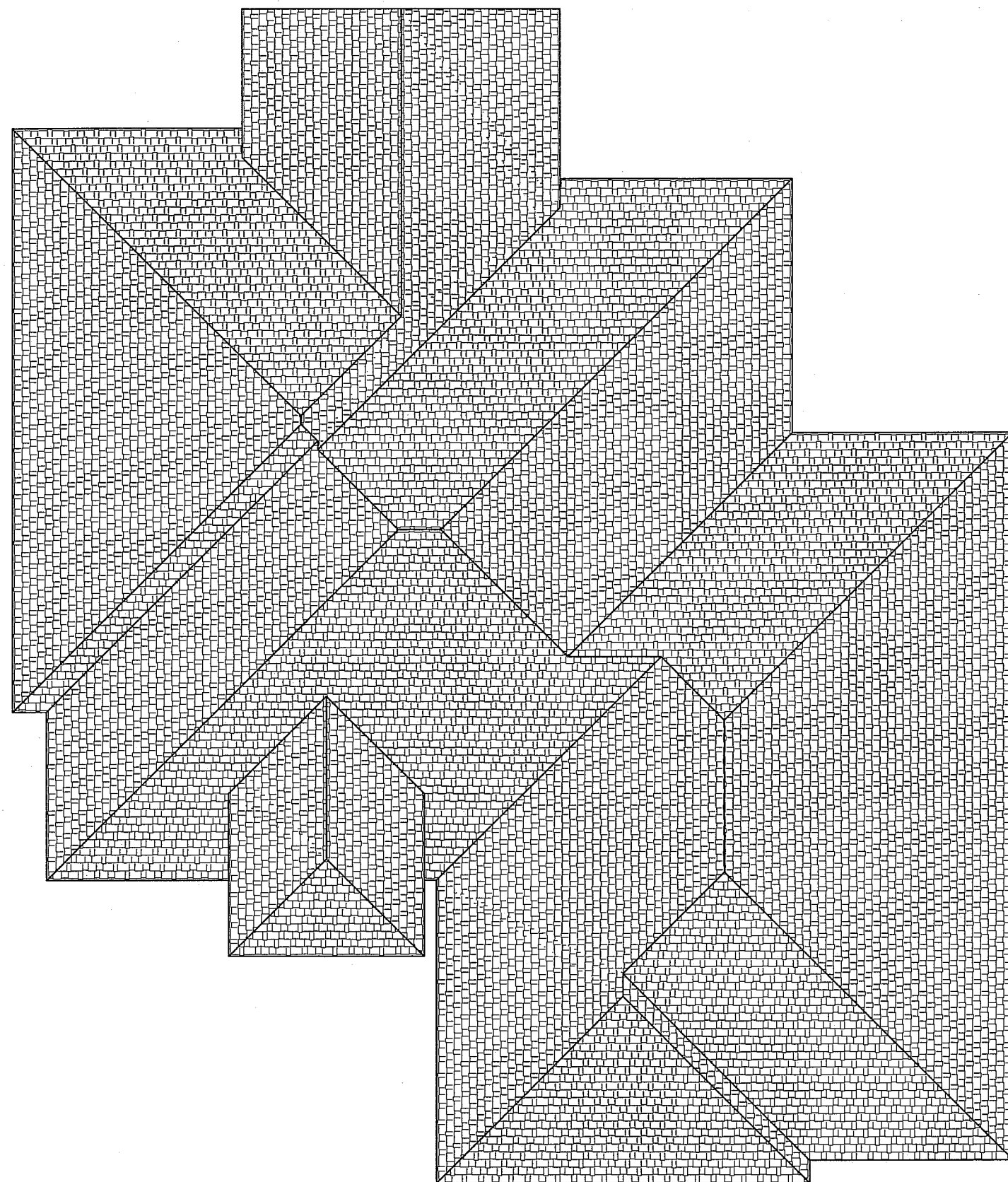
NICK ZVACEK HOMES
BAXTON
LOT 55 SUMMIT VIEW FARMS
3121 SW BLUE RIBBON ST
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
7-10-20

PLAN NO.
3159

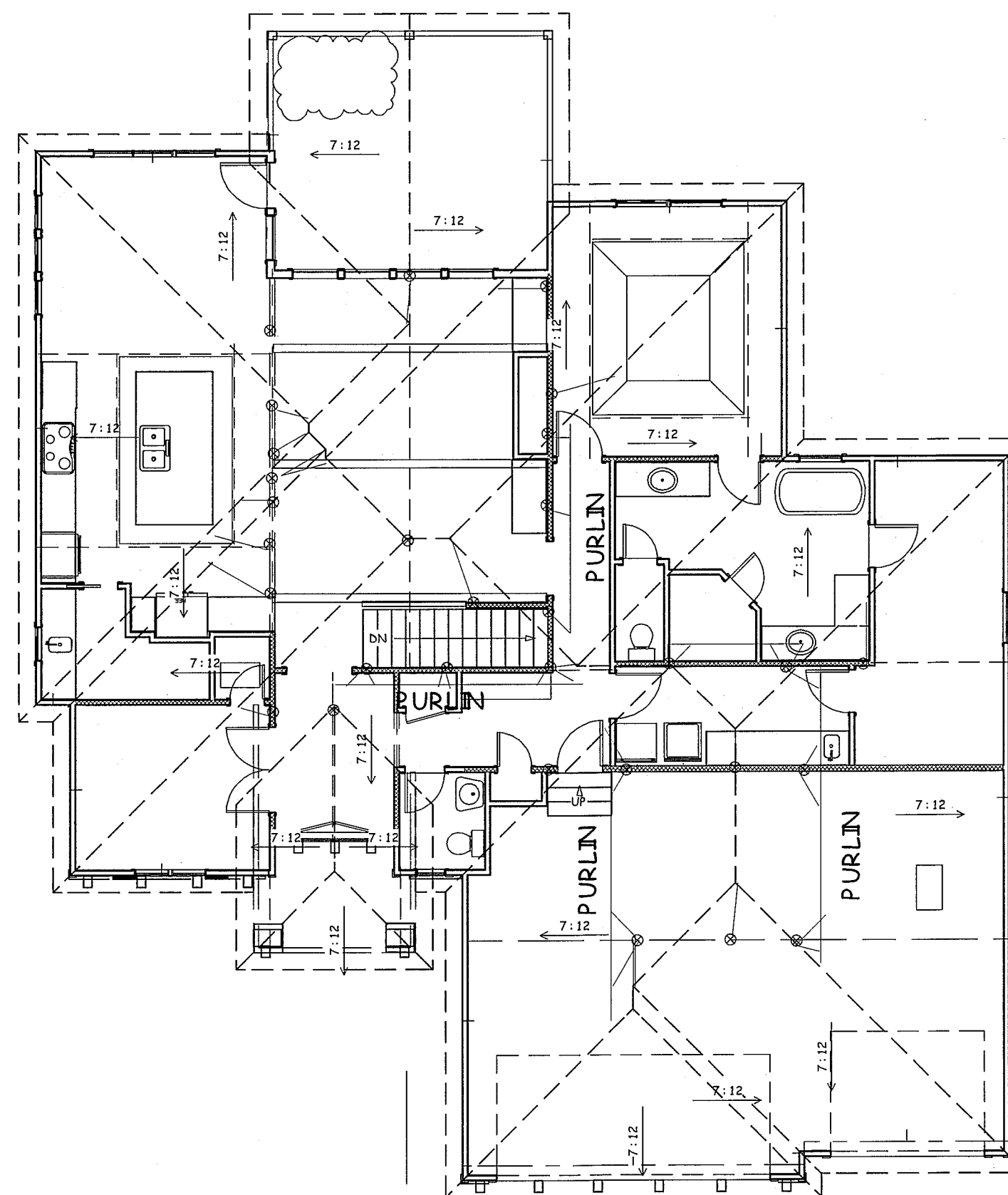
SHEET NO.
1 OF 6



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

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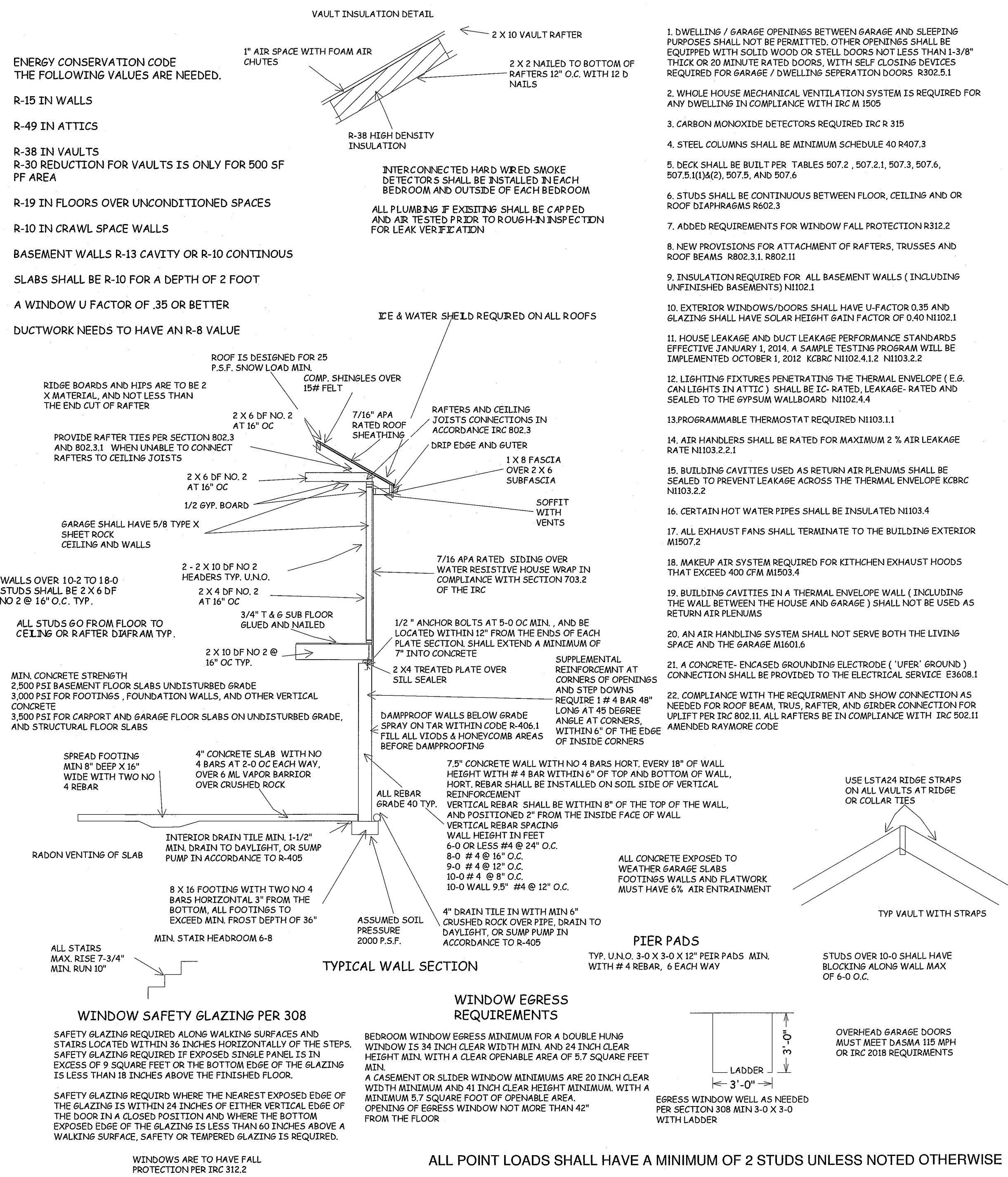
NICK ZVACEK HOMES
BAXTON
LOT 55 SUMMIT VIEW FARMS
3121 SW BLUE RIBBON ST
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
7-10-20

PLAN NO.
3159

SHEET NO.
4 OF 6



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NICK ZVACEK HOMES
BAXTON
LOT 55 SUMMIT VIEW FARMS
3121 SW BLUE RIBBON ST
LEE SUMMIT MO

SCALE
1/4" = 1-0

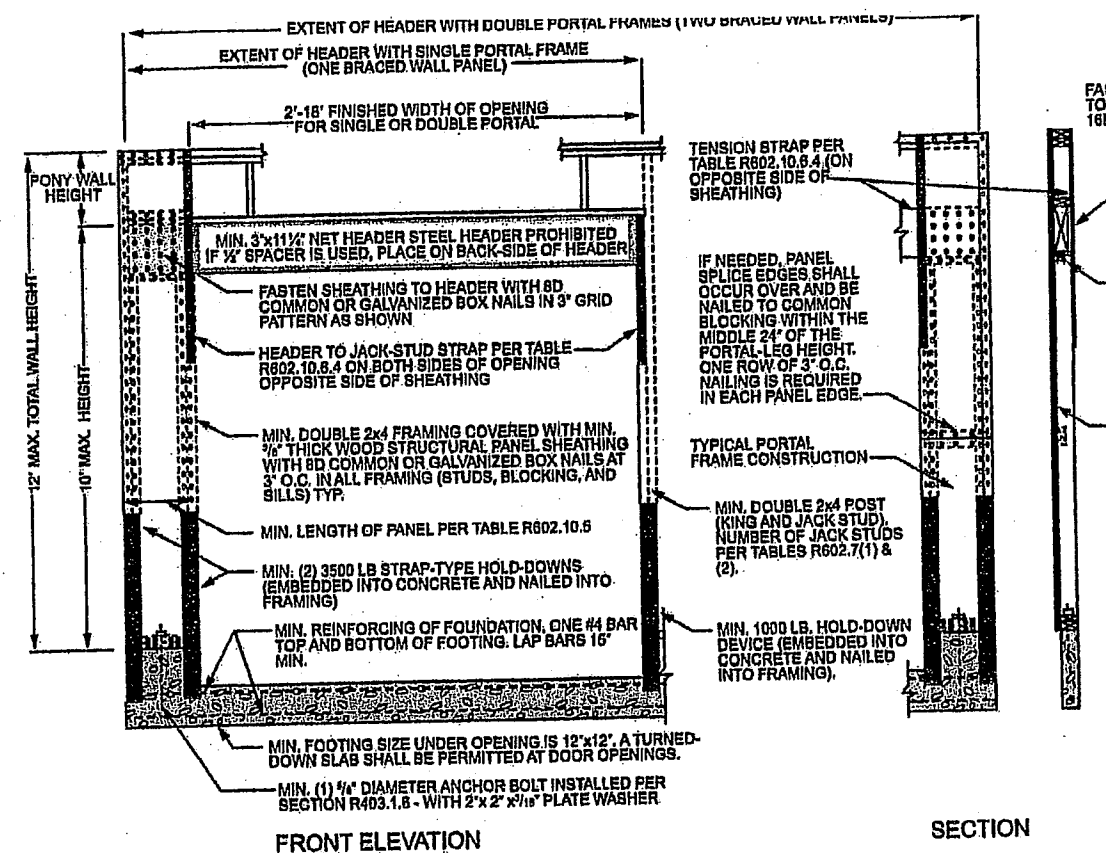
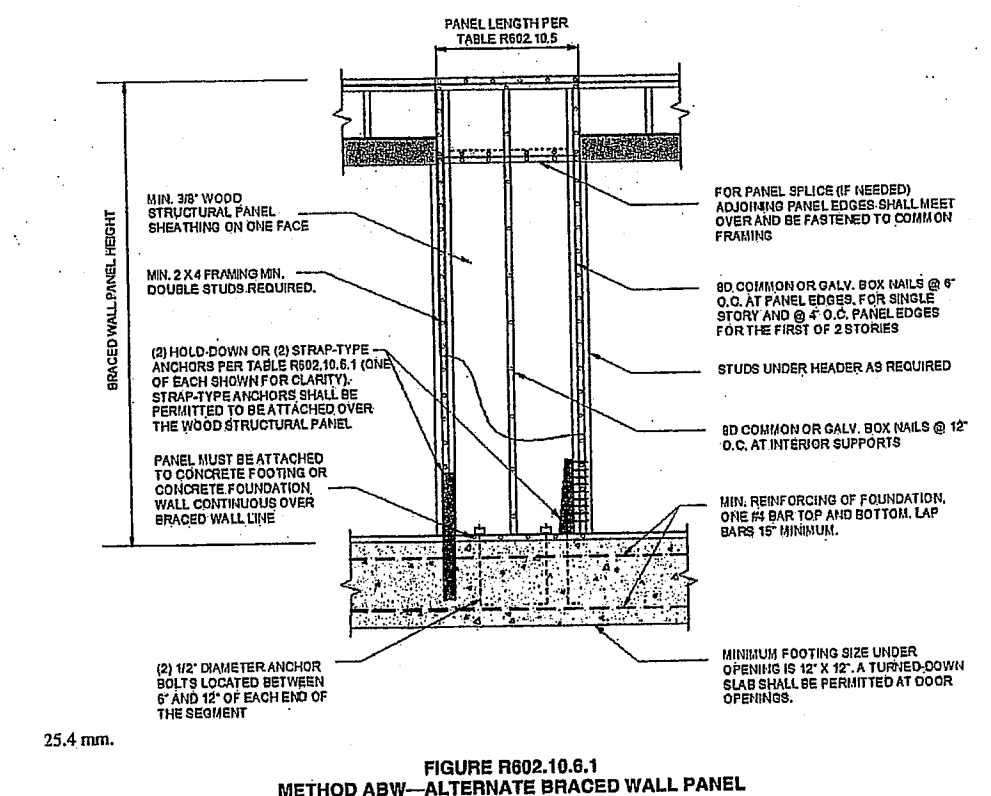
DATE
7-10-20

PLAN NO.
3159

SHEET NO.
5 OF 6

STATE OF MISSOURI
JOSEPH A. TOWNS P.E.
MO. LIC E 22017
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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 ^a				
Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	Method LFB ^b	Method GB	Methods DWS, WSP, SFB, PBS, FCP, HPS, BV-WSP, ABW, PFG, CS-SFB	Methods CS-WSP, CS-PF, CS-PP
≤ 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 ^c	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



4 mm, 1 foot = 304.8 mm.

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

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a
LFB Let-in-bracing	1 x 4 wood or approved metal straps at 45° to 60° angles for maximum 16\" stud spacing		Fasteners: Wood: 2-8d common nails 3-8d (2 1/2\" long x 0.113\" dia.) nails Metal strap: per manufacturer
DWS Diagonal wood boards	1/2\" (1\" nominal) for maximum 24\" stud spacing		2-8d (2 1/2\" long x 0.113\" dia.) nails or 2 - 1 1/4\" long staples
WSP Wood structural panel (See Section R604)	3/4\"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)
BV-WSP ^b Wood structural panels with stone or masonry veneer (See Section R602.10.6.3)	7/16\"	See Figure R602.10.6.5	8d common (2 1/2\" x 0.131\" dia.) nails
SFB Structural fiberboard sheathing	1/2\" or 7/16\" for maximum 16\" stud spacing		1 1/2\" long x 0.12\" dia. (for 1/2\" thick sheathing) 1 1/4\" long x 0.12\" dia. (for 7/16\" thick sheathing) galvanized roofing nails
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
PBS Particleboard sheathing (See Section R605)	1/2\" or 1/4\" for maximum 16\" stud spacing		For 1/2\", 6d common (2\" long x 0.113\" dia.) nails For 1/4\", 8d common (2 1/2\" long x 0.131\" dia.) nails
FCP Portland cement plaster	See Section R703.7 for maximum 16\" stud spacing		1 1/2\" long, 11 gauge, 7/16\" dia. head nails or 7/16\" long, 16 gauge staples
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
ABW Alternate braced wall	1/2\"		See Section R602.10.6.1

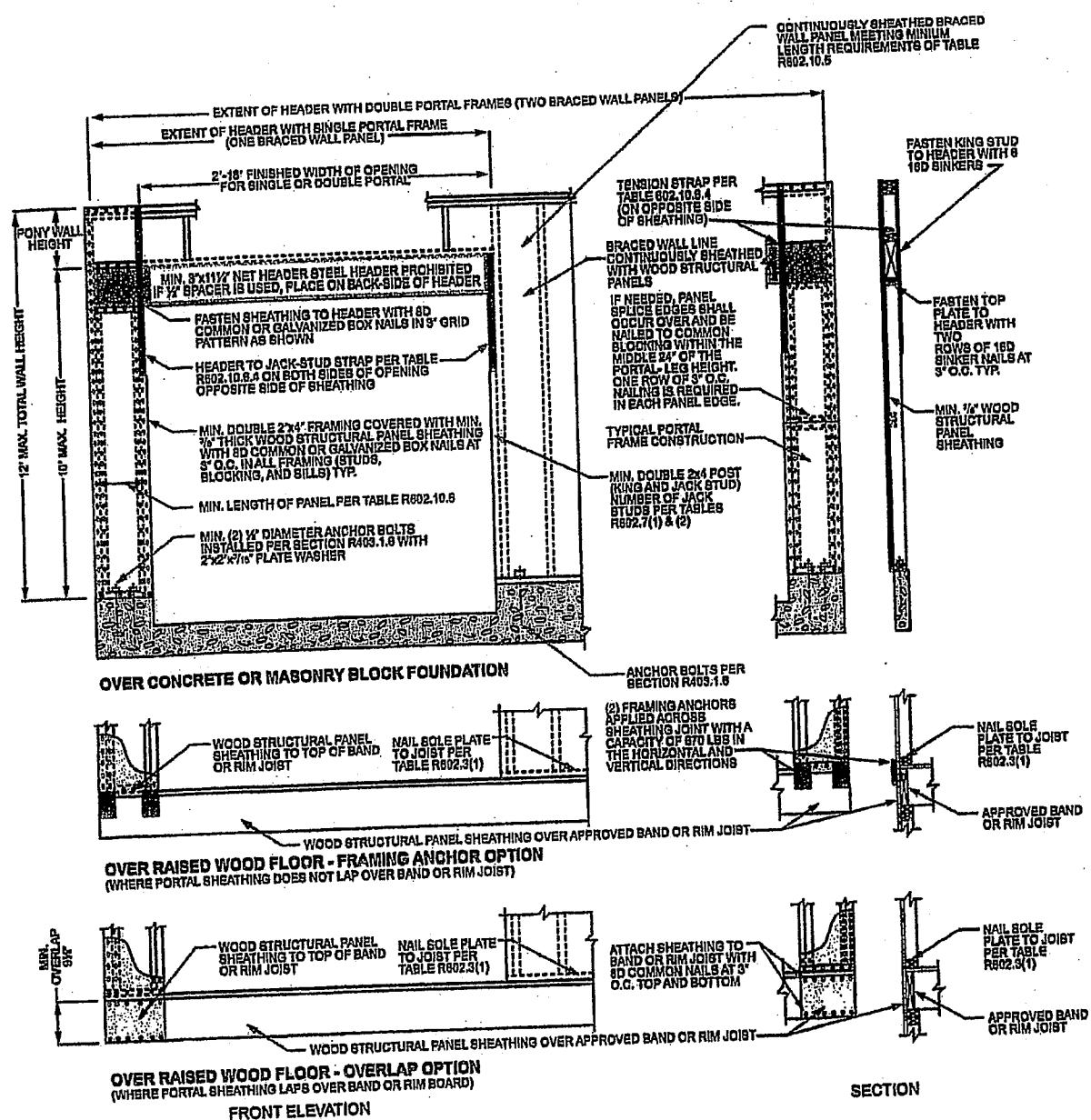
METHOD (See Table R602.10.4)		MINIMUM LENGTH ^a (inches)					CONTRIBUTING LENGTH (inches)
		Wall Height					
		8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, PBS, FCP, HPS, BV-WSP		48	48	48	53	58	Actual ^b
GB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 x Actual
LIB		55	62	69	NP	NP	Actual ^b
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48
	SDC D ₁ , D ₂ and D ₃ , ultimate design wind speed < 140 mph	32	32	34	NP	NP	
CS-G		24	27	30	33	36	Actual ^b
CS-WSP, CS-SFB	Adjacent clear opening height (inches)						Actual ^b
	≤ 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	
	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)		Portail header height					
FPF	Supporting roof only	8 feet	9 feet	10 feet	11 feet	12 feet	48
	Supporting one story and roof	16	16	16	Note c	Note c	
PFG		24	24	24	Note c	Note c	1.5 x Actual ^b
		24	27	30	Note d	Note d	
CS-PF	SDC A, B and C	16	18	20	Note e	Note e	1.5 x Actual ^b
	SDC D ₁ , D ₂ and D ₃	16	18	20	Note e	Note e	

For SDC: 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 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.
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.

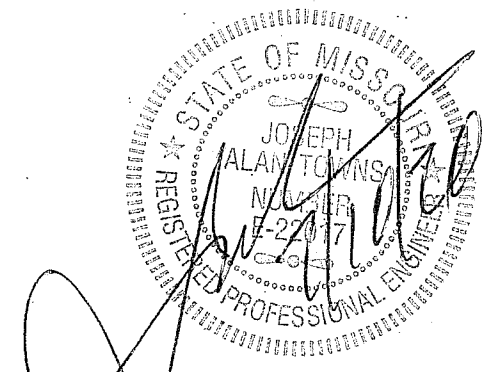
METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a
PFH Portal frame with hold-downs	1/2\"		See Section R602.10.6.2
PFG Portal frame at garage	7/16\"		See Section R602.10.6.3
CS-WSP Continuously sheathed wood structural panel	3/4\"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)
CS-G ^b Continuously sheathed wood structural panel adjacent to garage openings	3/4\"		See Method CS-WSP
CS-PF Continuously sheathed portal frame	7/16\"		See Section R602.10.6.4
CS-SFB ^c Continuously sheathed structural fiberboard	1/2\" or 7/16\" for maximum 16\" stud spacing		1 1/2\" long x 0.12\" dia. (for 1/2\" thick sheathing) 1 1/4\" long x 0.12\" dia. (for 7/16\" thick sheathing) galvanized roofing nails

- For SDC: 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. Additive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D₁, D₂, D₃, and D₄.
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 D₁, D₂, D₃ and D₄, roof covering dead load shall not exceed 3 psf.
c. Change 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 D₁, D₂, D₃, and D₄.
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₁ through D₄ only.



For SDC: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

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



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