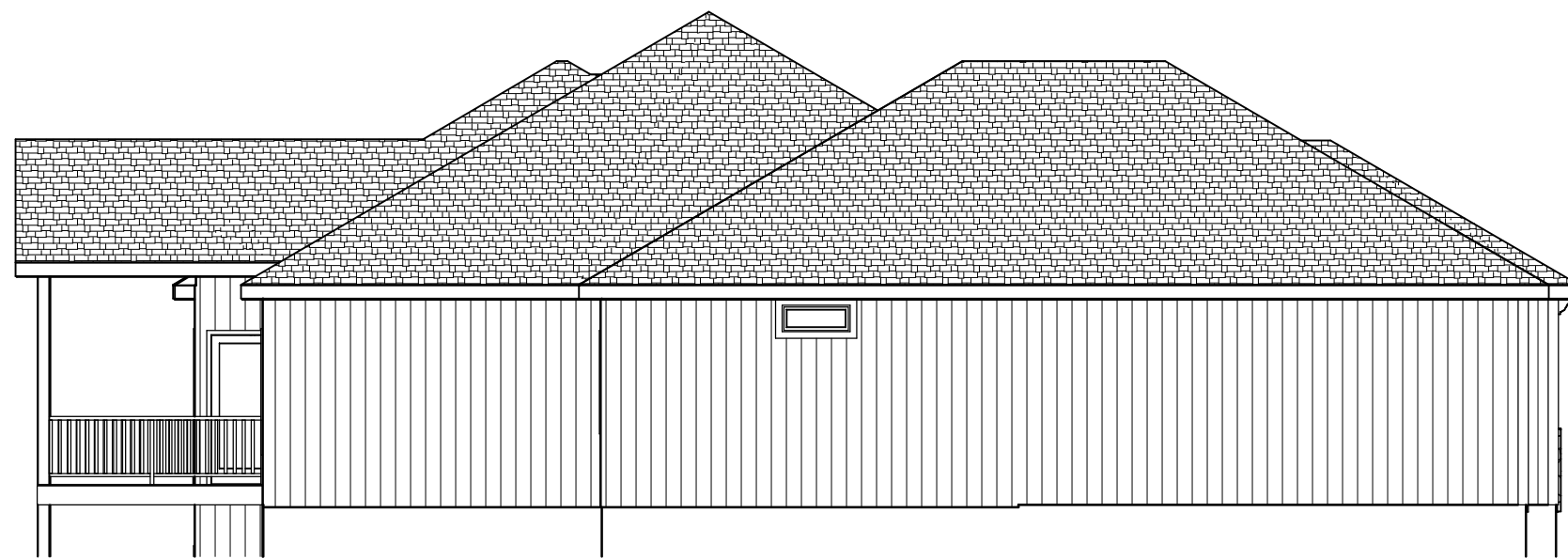
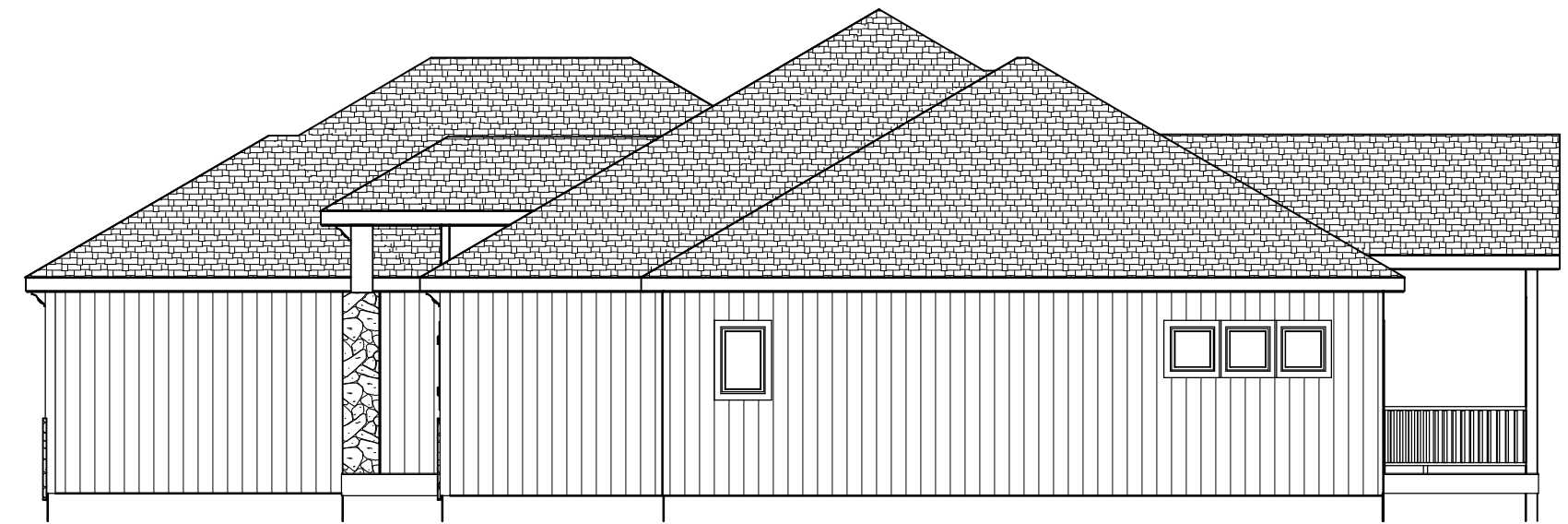




FRONT EL.
STUCCO & STONE



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



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

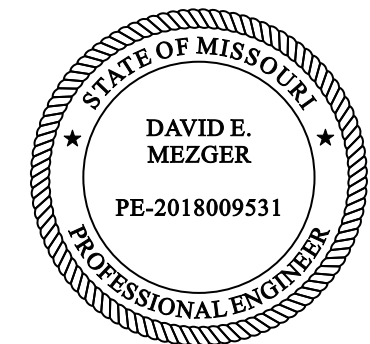
3 SIDES LP PANEL SIDING



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

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LEE'S SUMMIT, MISSOURI
05/31/2022

BUILD IN ACCORDANCE WITH
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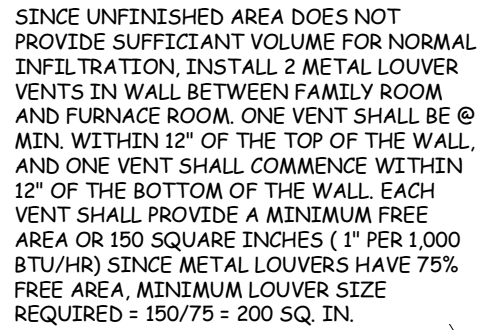
NICK ZVACEK HOMES
BRAXTON
LOT 106 SUMMIT VIEW FARMS
3222 SW ENOCH ST
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
5-9-22

PLAN NO.
3811

SHEET NO.
1 OF 6

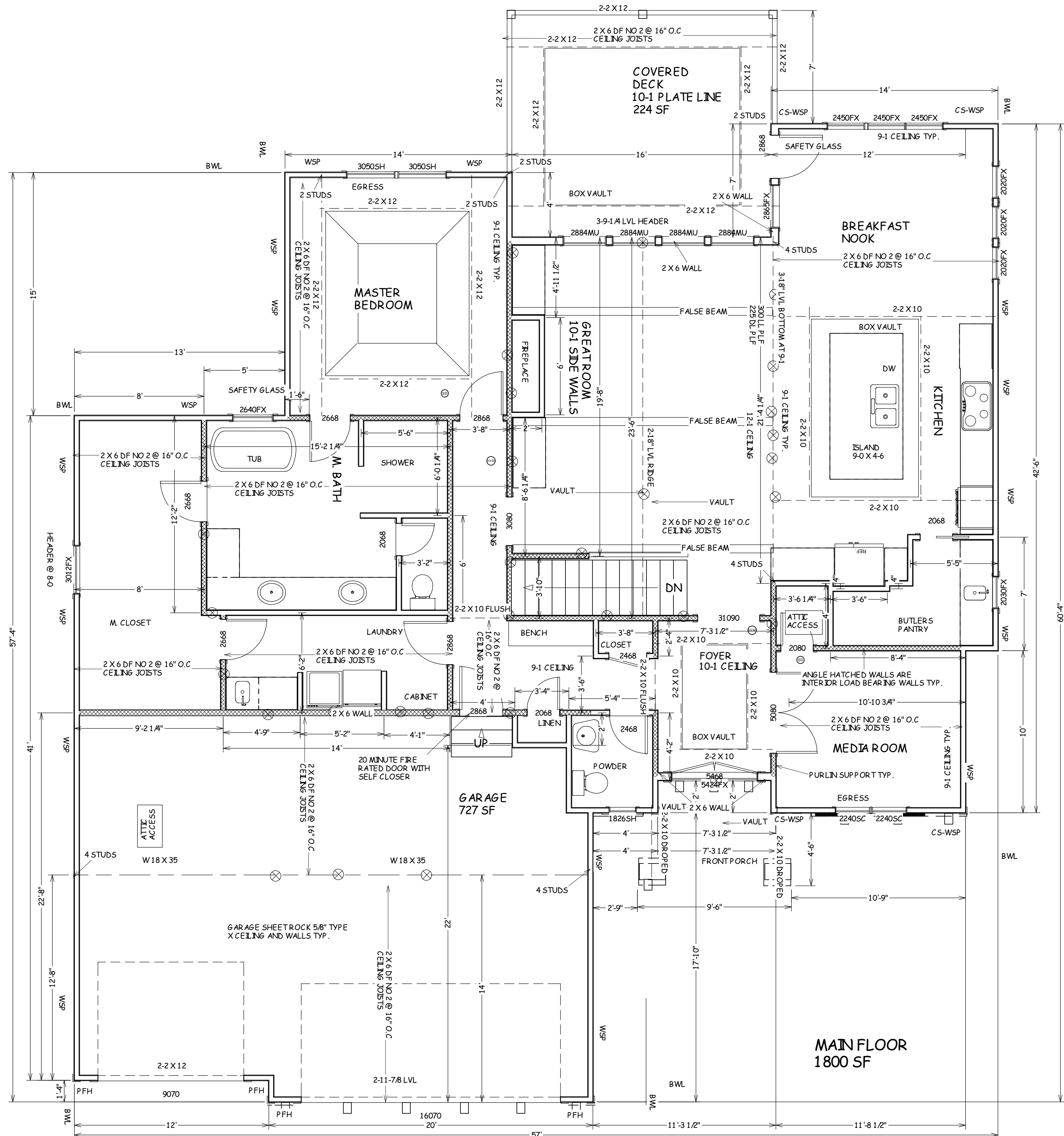


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05/31/2022

DAVID E.
MEZGER
PE-2018009531

STATE OF MISSOURI
PROFESSIONAL ENGINEER

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



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NICK ZVACEK HOMES
BRAXTON
LOT 106 SUMMIT VIEW FARMS
3222 SW ENOCH ST
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
5-9-22

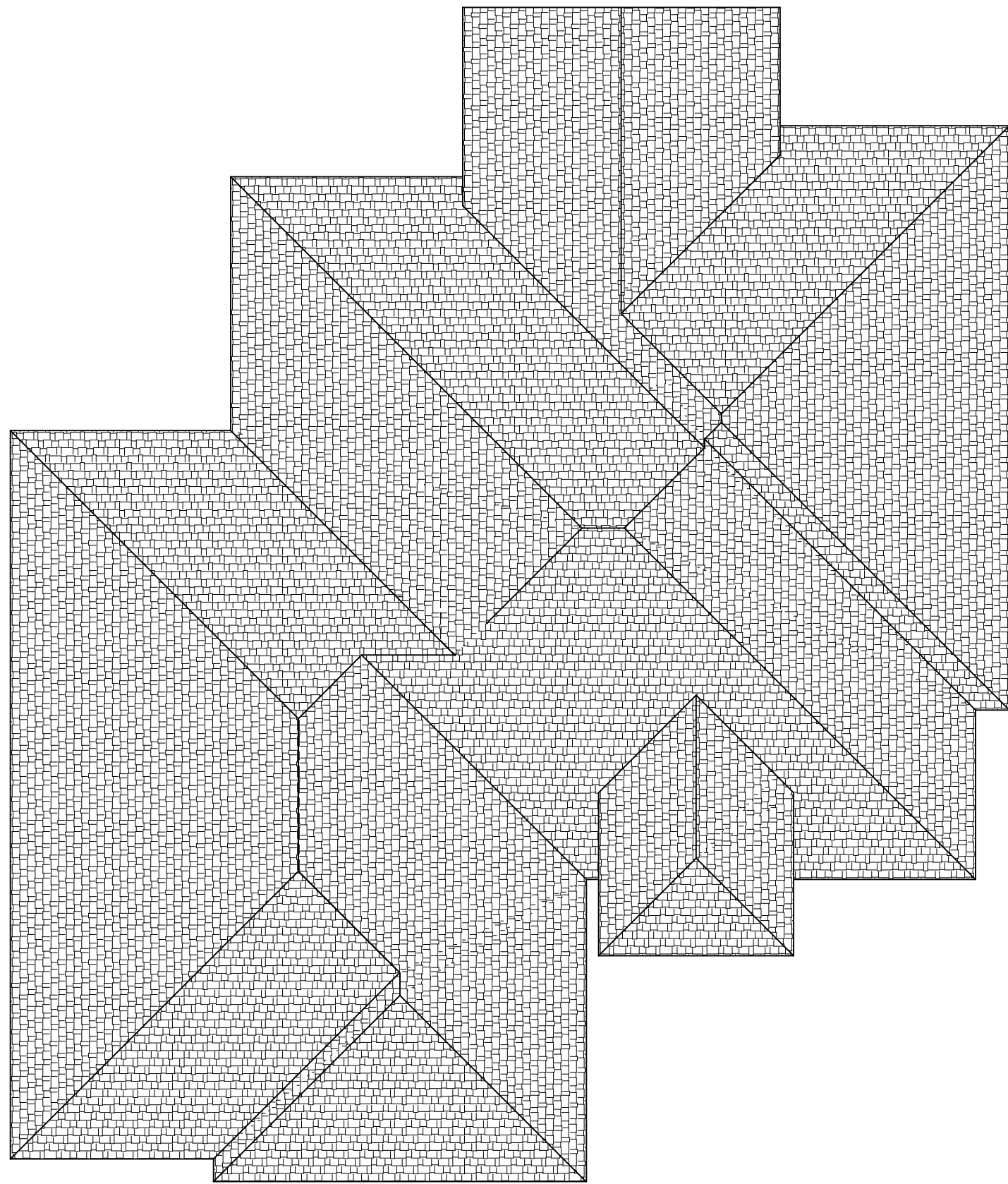
PLAN NO.

3811

SHEET NO.

3 OF 6

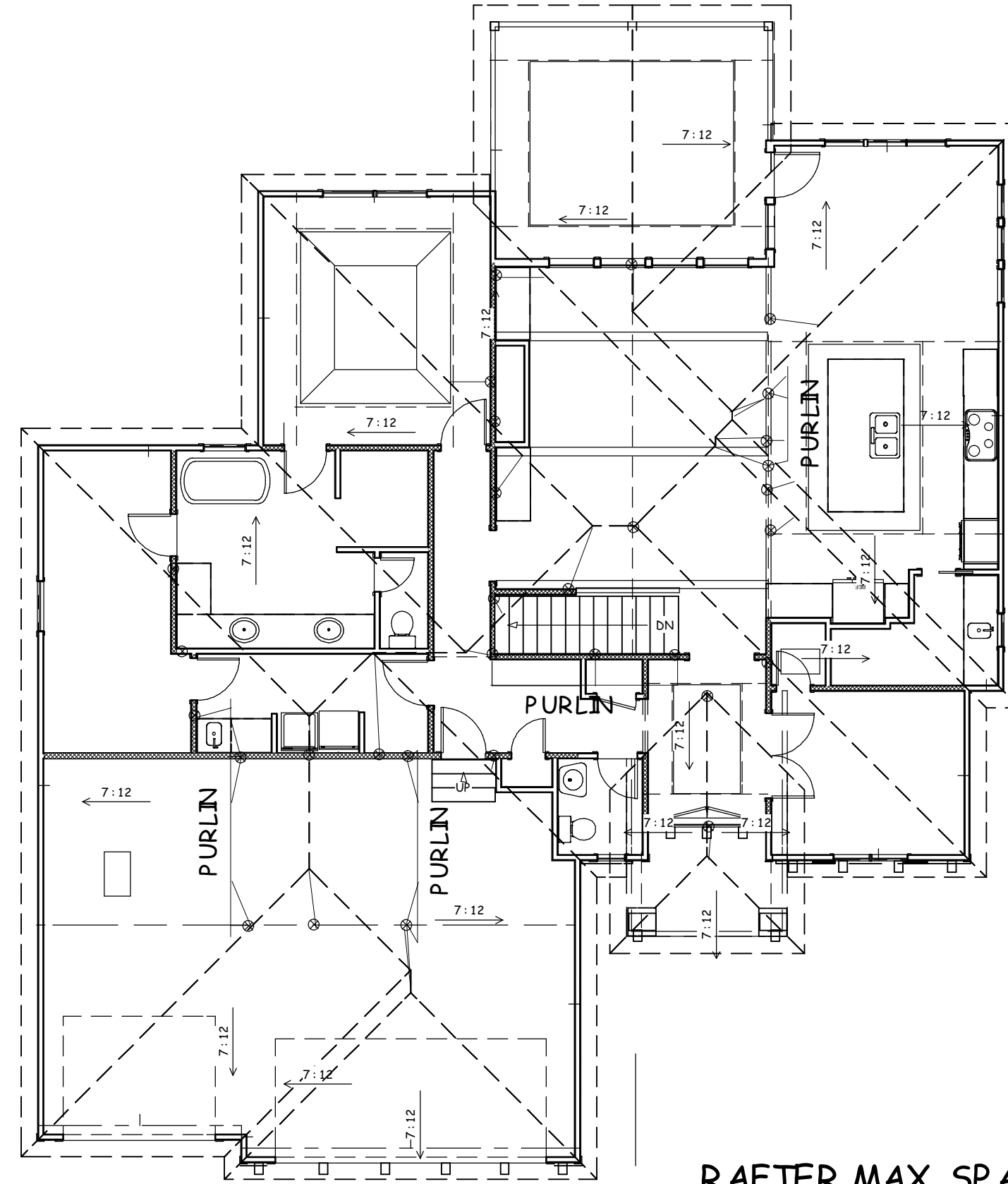
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05/31/2022



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.

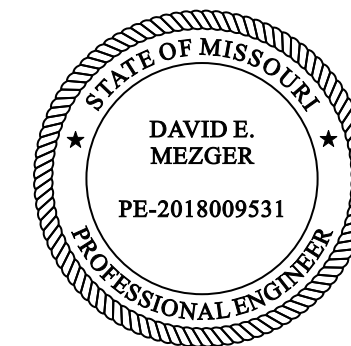


PURLIN PLAN
1/8" = 1'-0"
ALL ROOF PITCHES 7/12

RAFTER MAX. SPAN 14'-4"
BETWEEN SUPPORTS

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NICK ZVACEK HOMES
BRAXTON
LOT 106 SUMMIT VIEW FARMS
3222 SW ENOCH ST
LEE SUMMIT MO

SCALE

1/4" = 1'-0"

DATE

5-9-22

PLAN NO.

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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

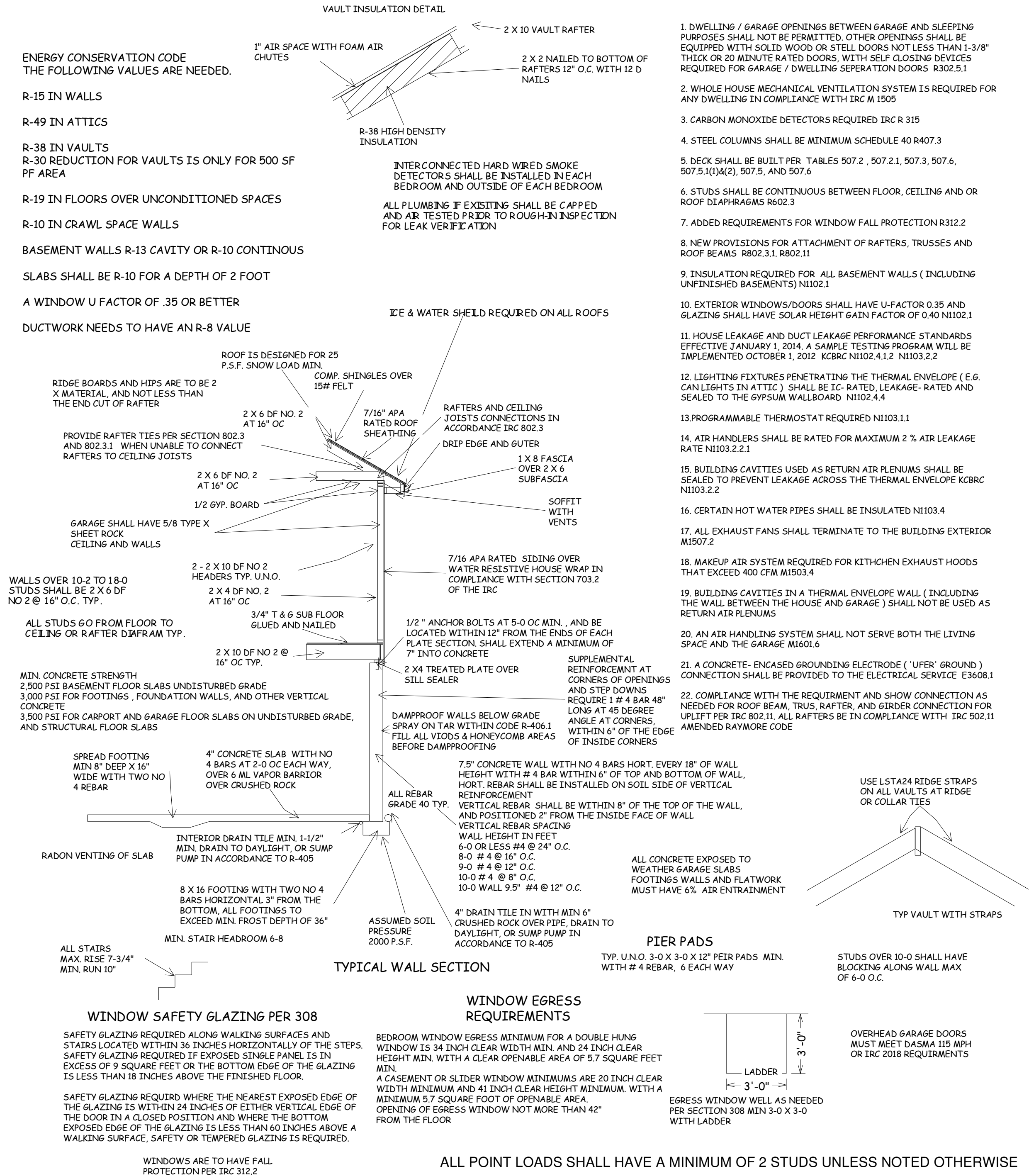
R-10 IN CRAWL SPACE WALLS

BASEMENT WALLS R-13 CAVITY OR R-10 CONTINUOUS

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

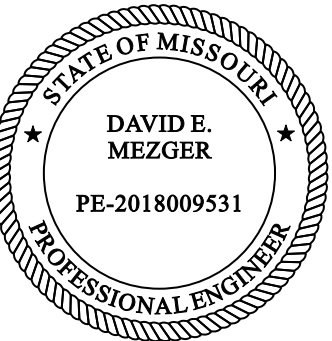
A WINDOW U FACTOR OF .35 OR BETTER

DUCTWORK NEEDS TO HAVE AN R-8 VALUE



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SCALE
1/4" = 1-0

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5-9-22

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3811

SHEET NO.

5 OF 6

EXPOSURE CATEGORY 3 • 33-FOOT MEAN ROOF HEIGHT • 10-FOOT WALL HEIGHT • 3 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 LIB ^b	Method GB	Methods DWB, WSP, SFB, PFB, FCP, 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

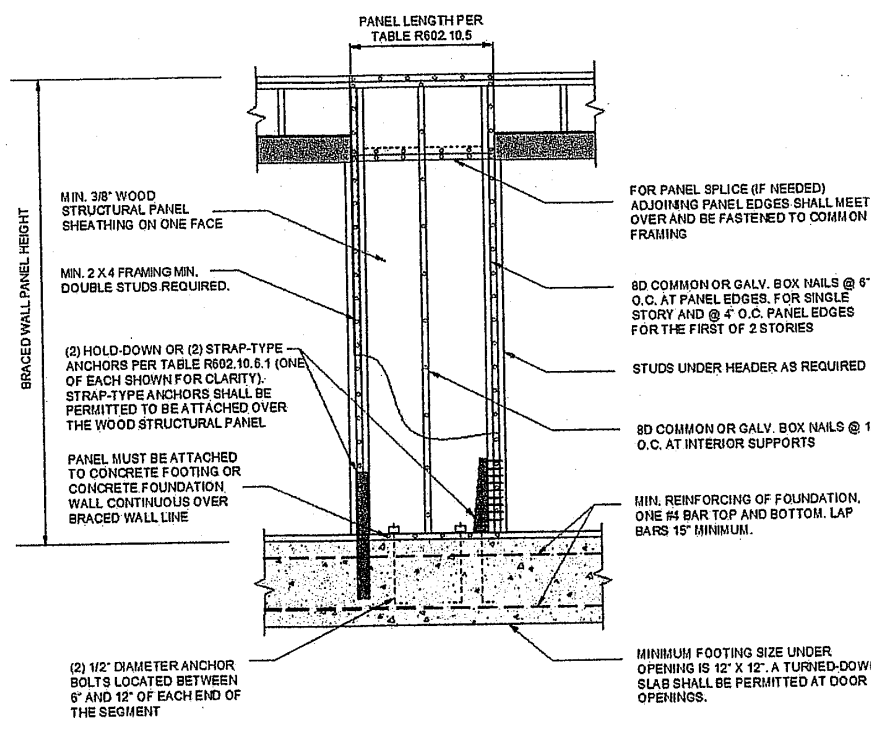


FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

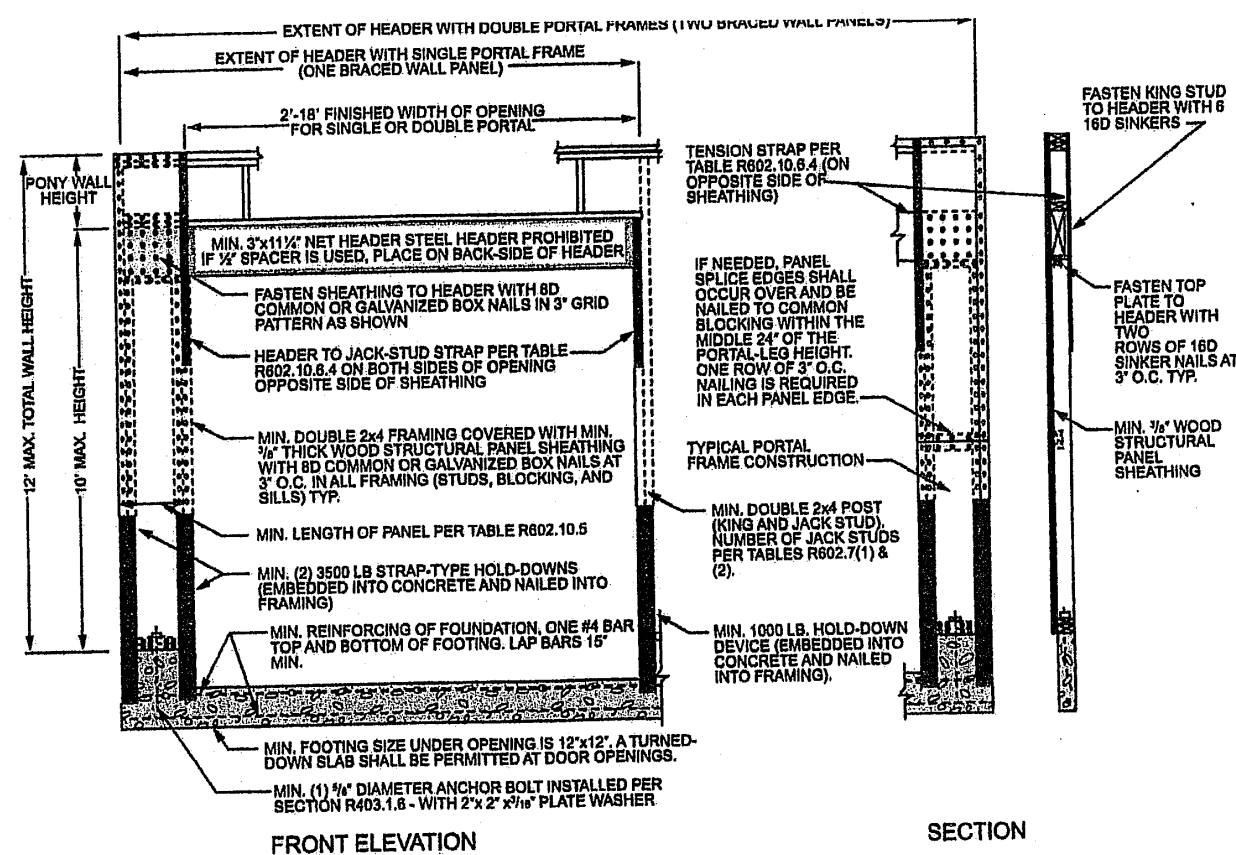


FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a
LIB 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 or 3-8d (2 1/2" long x 0.113" dia.) nails Metal strap: per manufacturer Spacing: Wood: per stud and top and bottom plates Metal: per manufacturer
DWB Diagonal wood boards	1/2" (1" nominal) for maximum 24" stud spacing		Fasteners: 2-8d (2 1/2" long x 0.113" dia.) nails or 2 - 1 1/2" long staples Spacing: Per stud
WSP Wood structural panel (See Section R604)	3/8"		Fasteners: Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2) Spacing: 6" edges 12" field Varies by fastener
BV-WSP ^b Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	1/8"	See Figure R602.10.6.5	Fasteners: 8d common (2 1/2" x 0.131") nails Spacing: 4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts
SFB Structural fiberboard sheathing	1/2" or 3/4" for maximum 16" stud spacing		Fasteners: 1 1/2" long x 0.12" dia. (for 1/2" thick sheathing) 1 1/4" long x 0.12" dia. (for 3/4" thick sheathing) galvanized roofing nails Spacing: 3" edges 6" field
GB Gypsum board	1/2"		Fasteners: Nails or screws per Table R602.3(1) for exterior locations Nails or screws per Table R602.3.5 for interior locations Spacing: For all braced wall panel locations: 7" edges (including top and bottom plates) 7" field
PBS Particleboard sheathing (See Section R605)	3/8" or 1/2" for maximum 16" stud spacing		Fasteners: For 3/8", 6d common (2" long x 0.113" dia.) nails For 1/2", 8d common (2 1/2" long x 0.131" dia.) nails Spacing: 3" edges 6" field
FCP Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		Fasteners: 1 1/2" long, 11 gage, 1/16" dia. head nails or 7/16" long, 16 gage staples Spacing: 6" o.c. on all framing members
HPS Hardboard panel siding	3/16" for maximum 16" stud spacing		Fasteners: 0.092" dia., 0.225" dia. head nails with length to accommodate 1 1/2" penetration into studs Spacing: 4" edges 8" field
ABW Alternate braced wall	3/8"		See Section R602.10.6.1 See Section R602.10.6.1

METHOD (See Table R602.10.4)	MINIMUM LENGTH ^a (inches)					CONTRIBUTING LENGTH (inches)
	8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, PFB, 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
	SDC D ₁ , D ₂ and D ₃ , ultimate design wind speed < 140 mph	32	32	34	NP	NP
CS-G	Adjacent clear opening height (inches)	24	27	30	33	36
	≤ 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	—	—	—	—	65
	144	—	—	—	—	72
CS-WSP, CS-SFB	Paral header height	8 feet	9 feet	10 feet	11 feet	12 feet
	Supporting roof only	16	16	16	Note c	Note c
	Supporting one story and roof	24	24	24	Note c	Note c
PFH	Supporting one story and roof	24	24	24	Note c	Note c
PFG	Supporting one story and roof	16	18	20	Note c	Note c
CS-PF	SDC A, B and C	16	18	20	Note c	Note c
	SDC D ₁ , D ₂ and D ₃	16	18	20	Note c	Note c

For S1: 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.

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a
PFH Portal frame with hold-downs	3/8"		See Section R602.10.6.2
PFG Portal frame at garage	3/8"		See Section R602.10.6.3
CS-WSP Continuously sheathed wood structural panel	3/8"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2) Spacing: 6" edges 12" field Varies by fastener
CS-G ^a Continuously sheathed wood structural panel adjacent to garage openings	3/8"		See Method CS-WSP
CS-PF Continuously sheathed portal frame	3/8"		See Section R602.10.6.4
CS-SFB ^b Continuously sheathed structural fiberboard	3/8" or 3/4" 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 3/4" thick sheathing) galvanized roofing nails Spacing: 3" edges 6" field

For S1: 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, D₁, D₂, and D₃.
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, and D₃, roof covering dead load shall not exceed 3 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 D₁, D₂, and D₃.
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₁ through D₃ only.

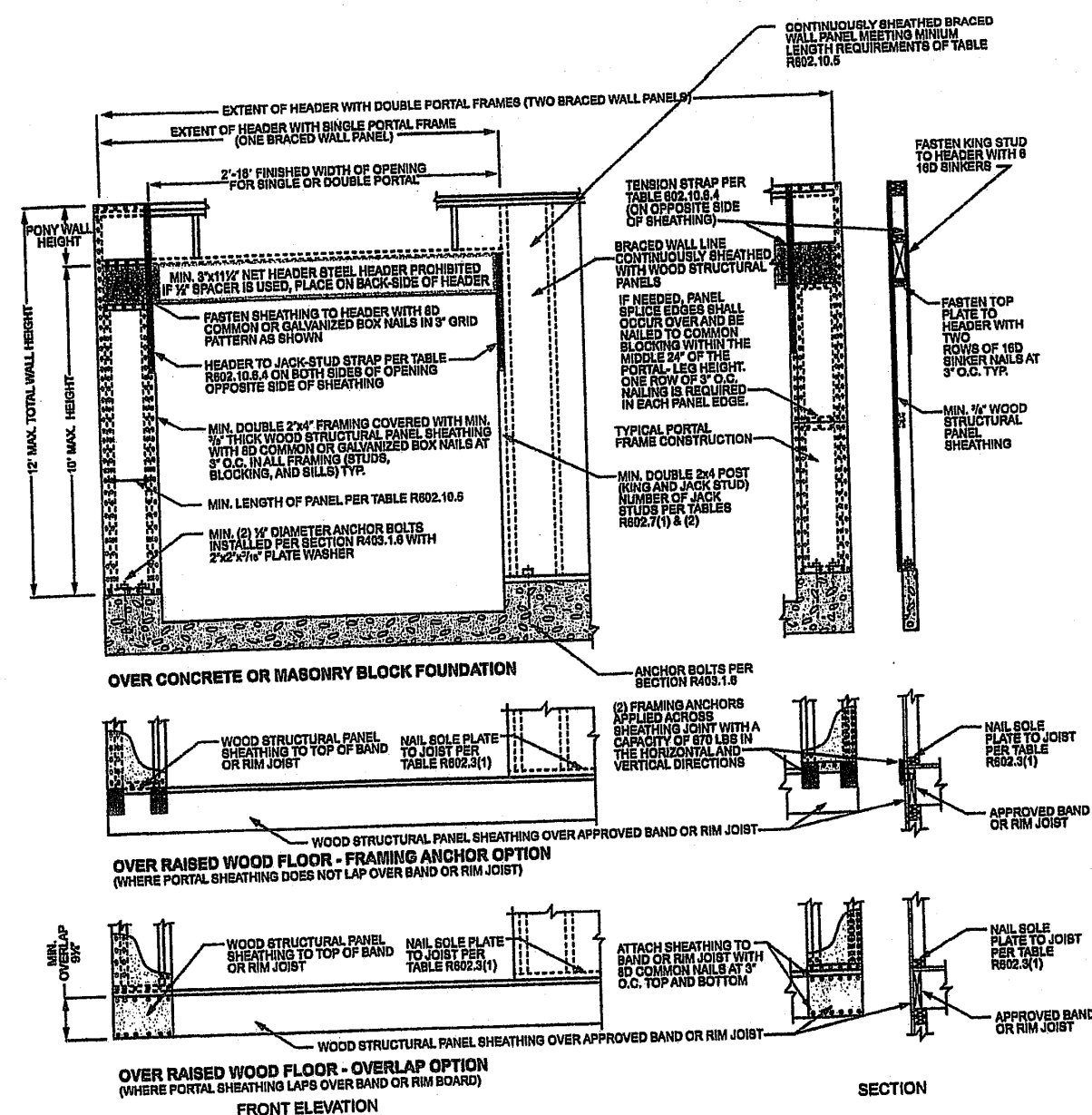
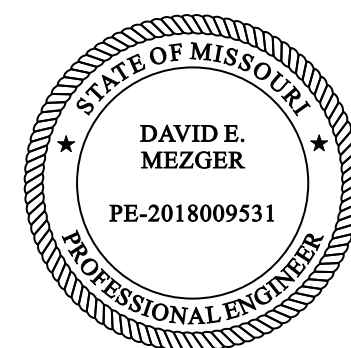


FIGURE R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION



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