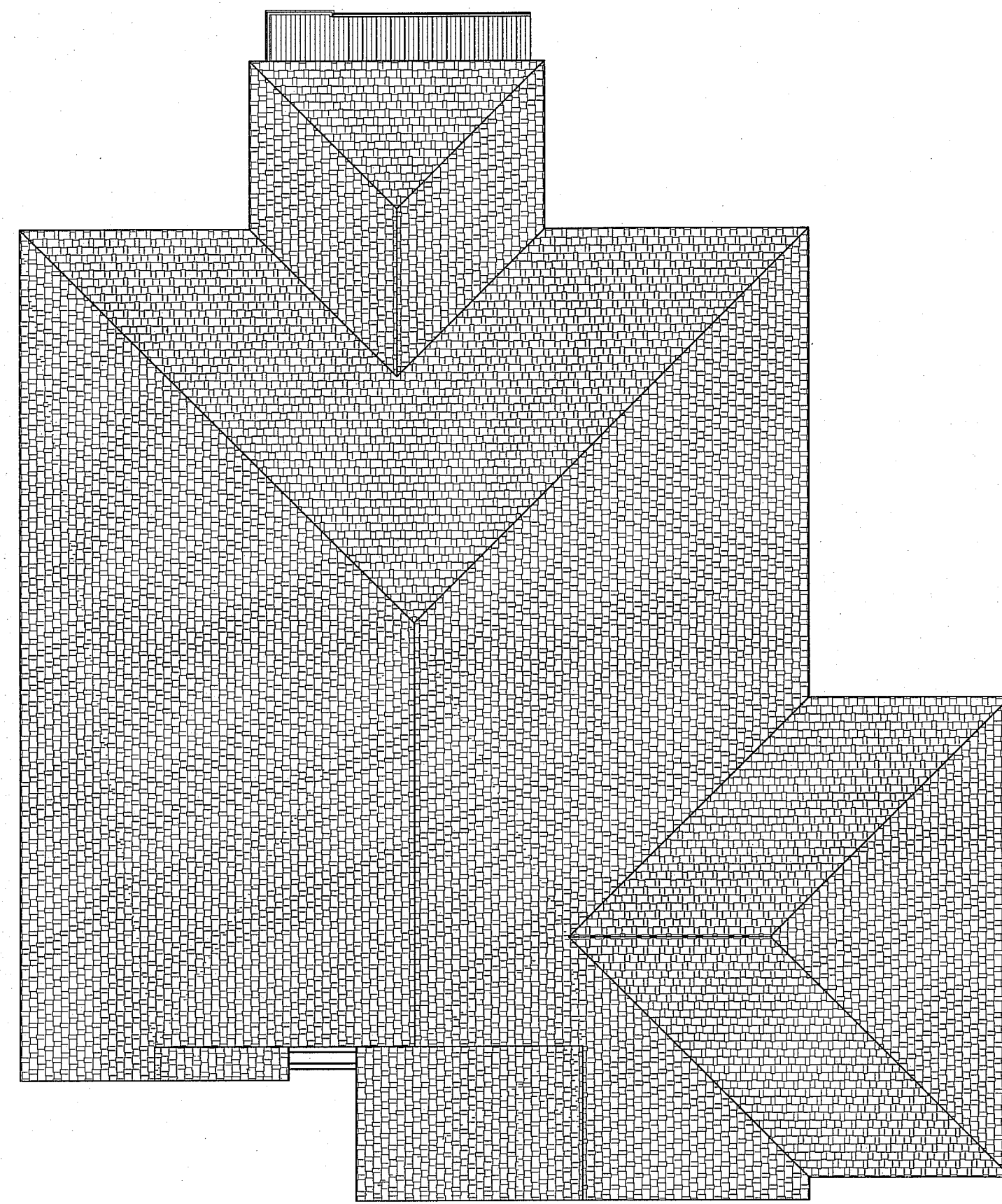
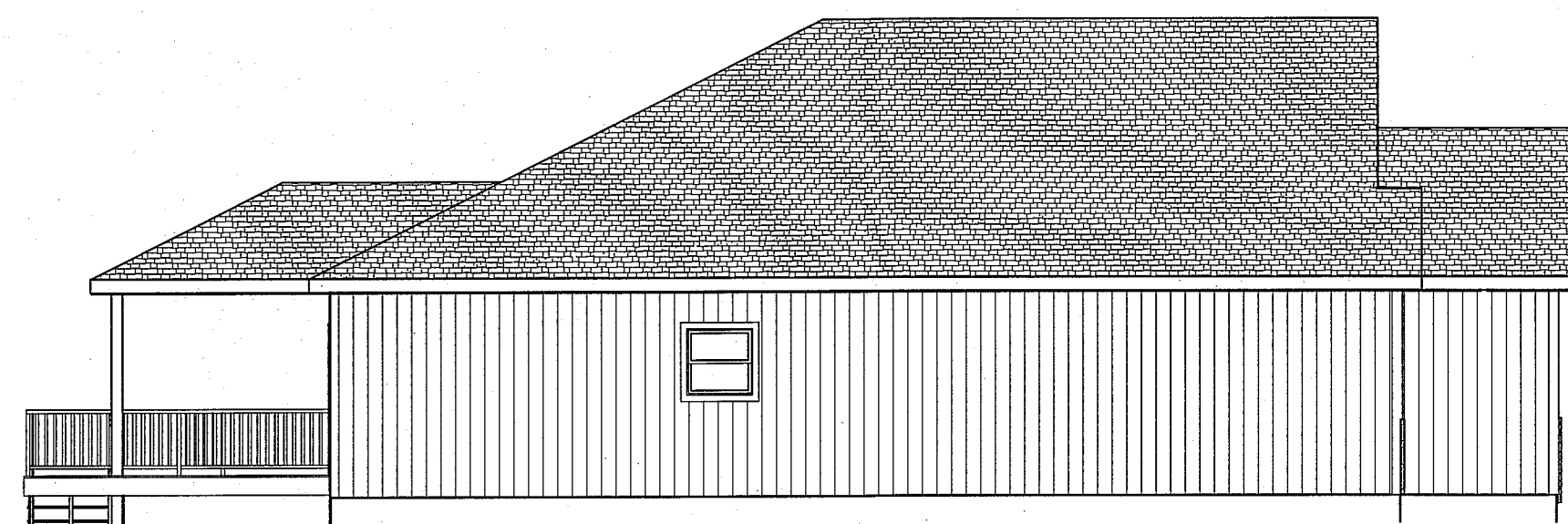




ROOF PLAN
1/8" = 1'-0"
ROOF PITCHES 6/12 TYP.
RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.
HIPS AND RIDGES 2 X 8 DF NO 2 TYP.



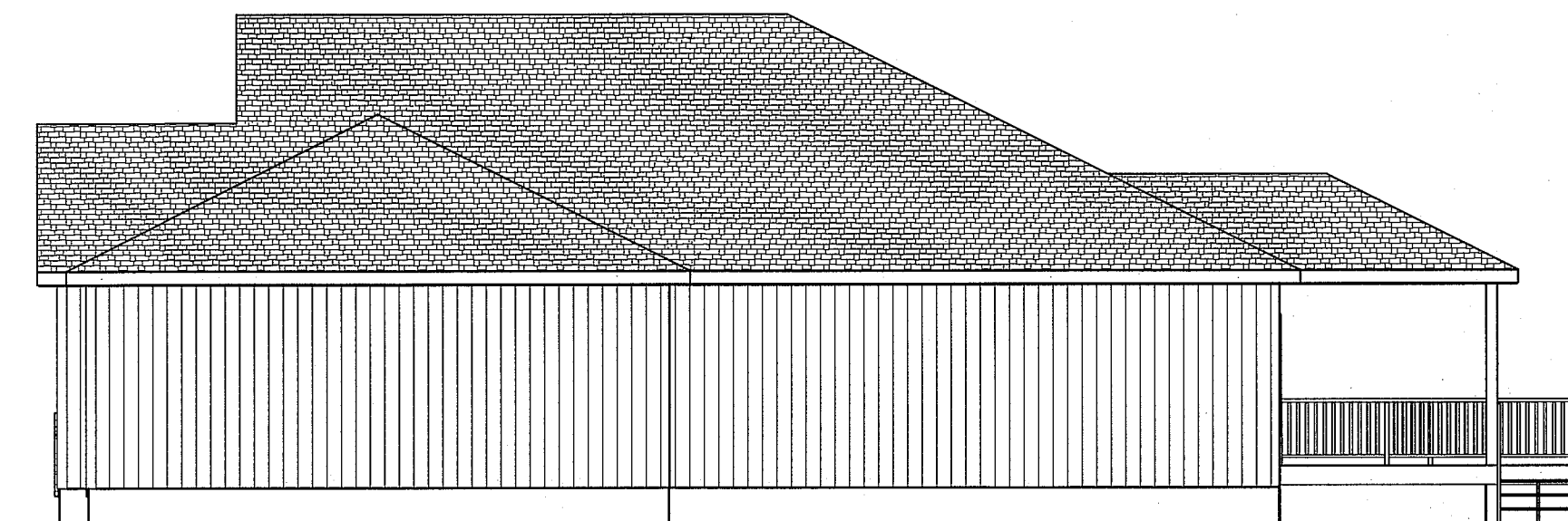
FRONT EL.



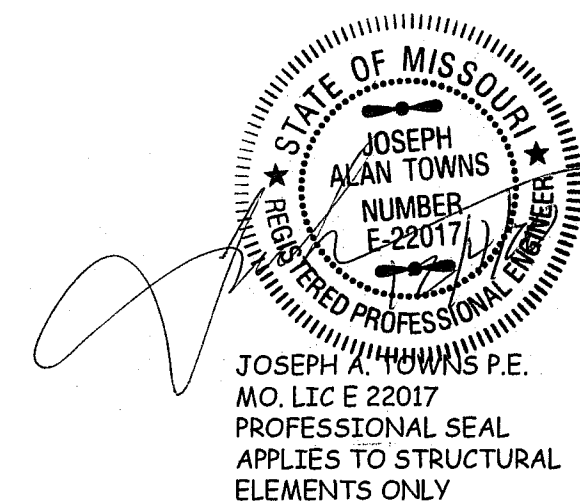
LEFT EL.
1/8" = 1'-0"



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



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



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2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

CLINT & KIM BROCATO RES.
LOT 51 SUMMIT VIEW FARMS- 3RD PLATTE
3105 SW BLUE RIBBON STREET
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

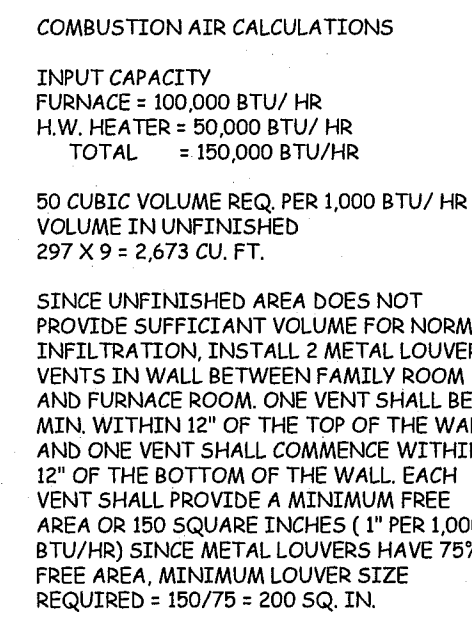
DATE
12-5-20

PLAN NO.
3297

SHEET NO.
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CLINT & KIM BROCATO RES.
LOT 51 SUMMIT VIEW FARMS- 3RD PLATTE
3105 SW BLUE RIBBON STREET
LEE SUMMIT MO

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Technical drawing of a bridge deck cross-section. The drawing shows a central section with a width of 3'-6" and a height of 4'-0". The central section is supported by two 2-2 X 10 beams. The distance between the centerlines of these beams is 7'-6". The total width of the deck is 16'-0". The deck is supported by 12 piers, with a minimum of 36" below grade with ABA66Z post base with 6 X 6 posts. The deck is reinforced with 2-2 X 10 beams. The drawing also shows a 6'-0" dimension for the width of the deck on one side of the central section.

12' PIERS MIN 36" BELOW GRADE WITH ABA66Z POST BASE WITH 6 X 6 POSTS

3'-6"

4'-0"

2-2 X 10

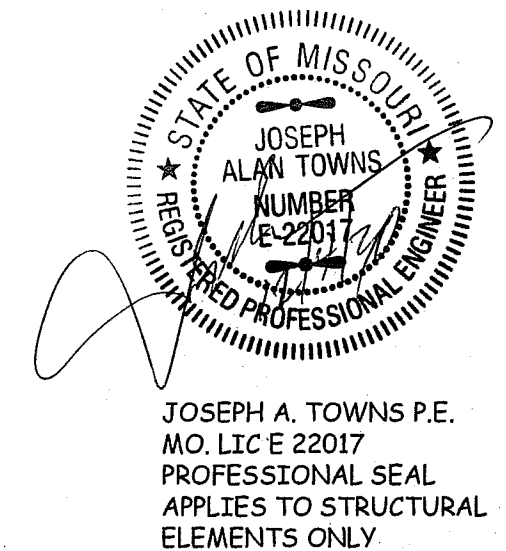
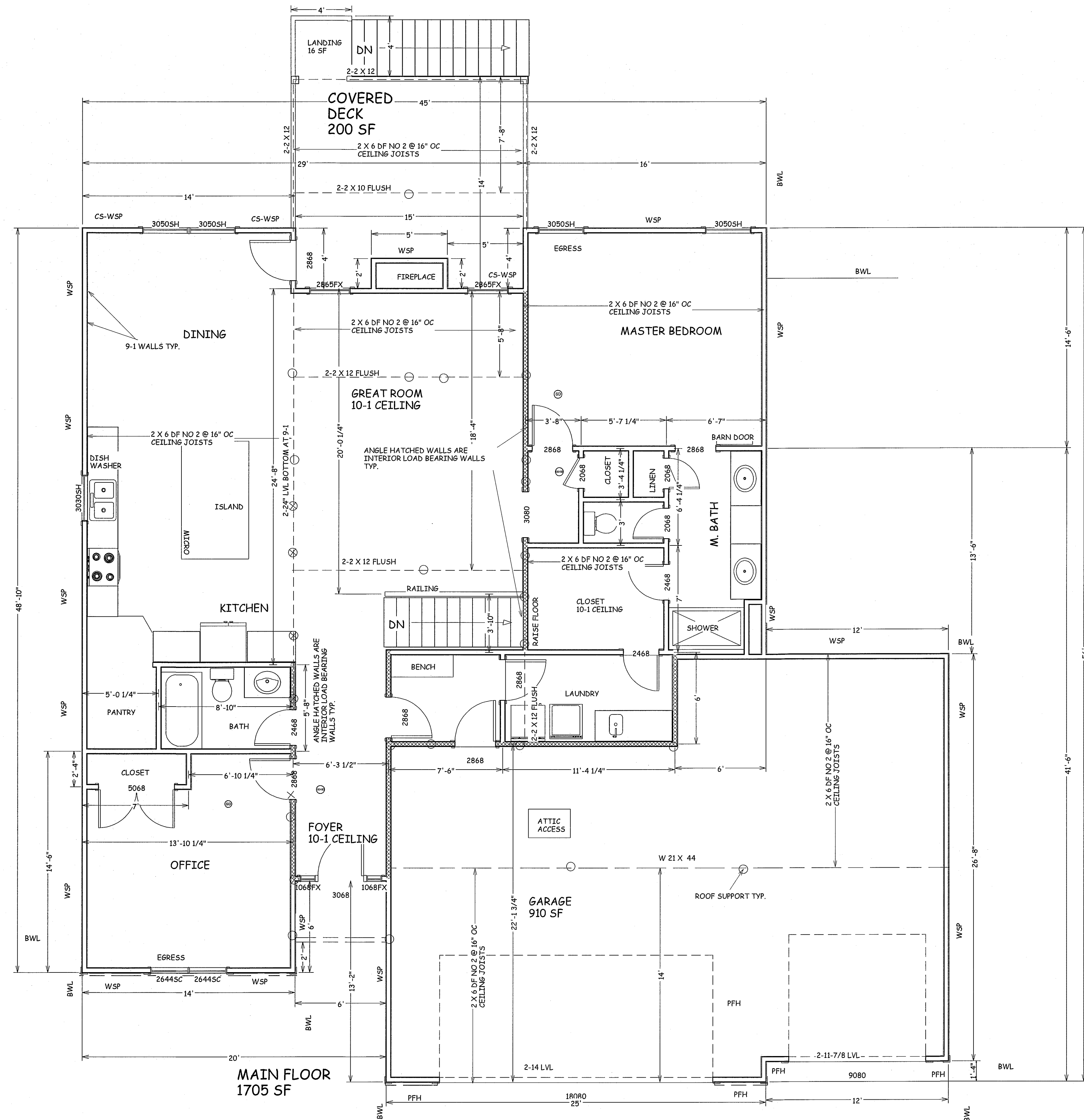
7'-6"

2-2 X 10

7'-6"

6'-0"

16' PIERS MIN 36" BELOW GRADE WITH ABA66Z POST BASE WITH 6 X 6 POSTS



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CLINT & KIM BROCATO RES.
LOT 51 SUMMIT VIEW FARMS- 3RD PLATTE
3105 SW BLUE RIBBON STREET
LEE SUMMIT MO

SCALE
1/4" = 1-0

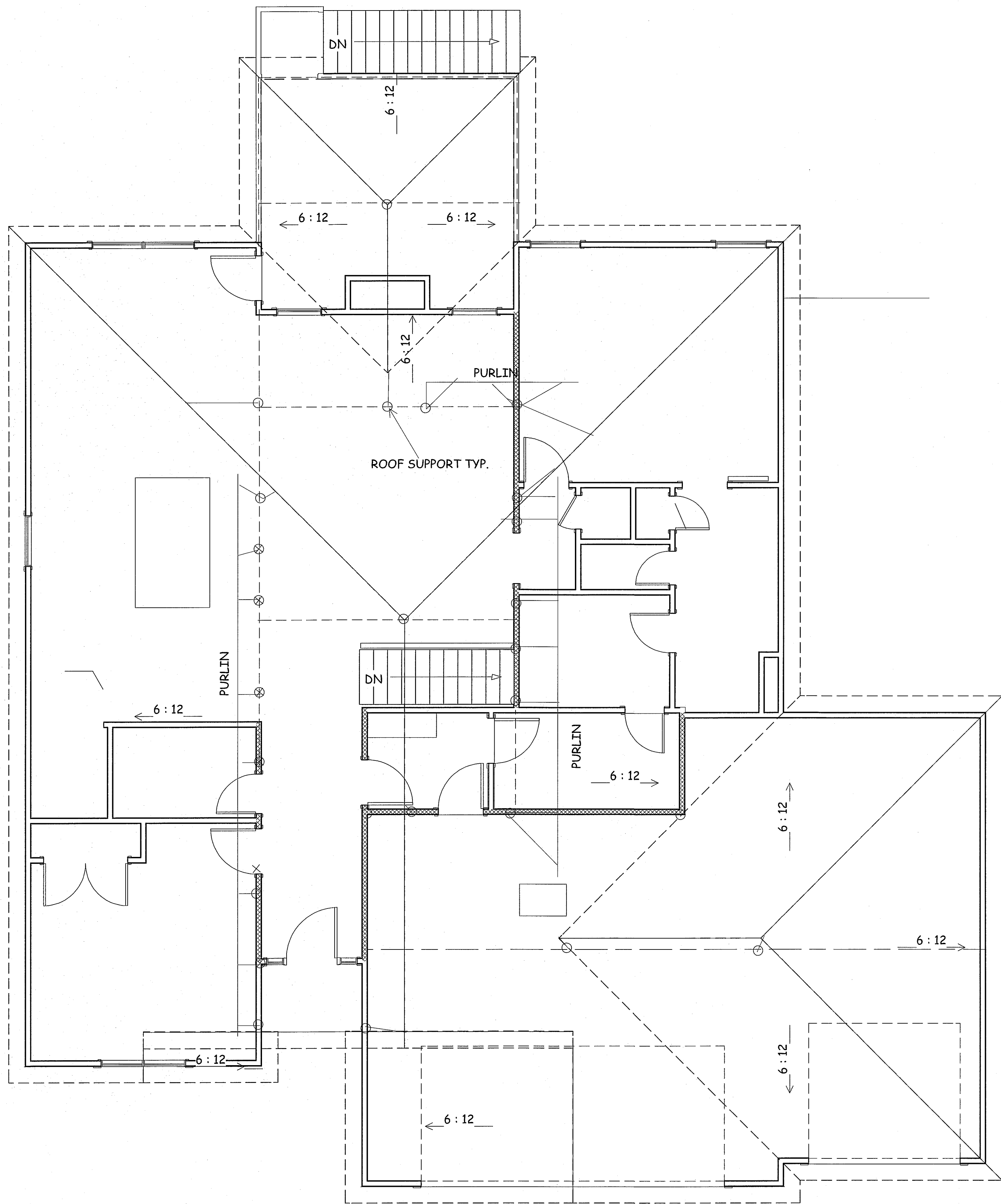
DATE
12-5-20

PLAN NO.

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SHEET NO.

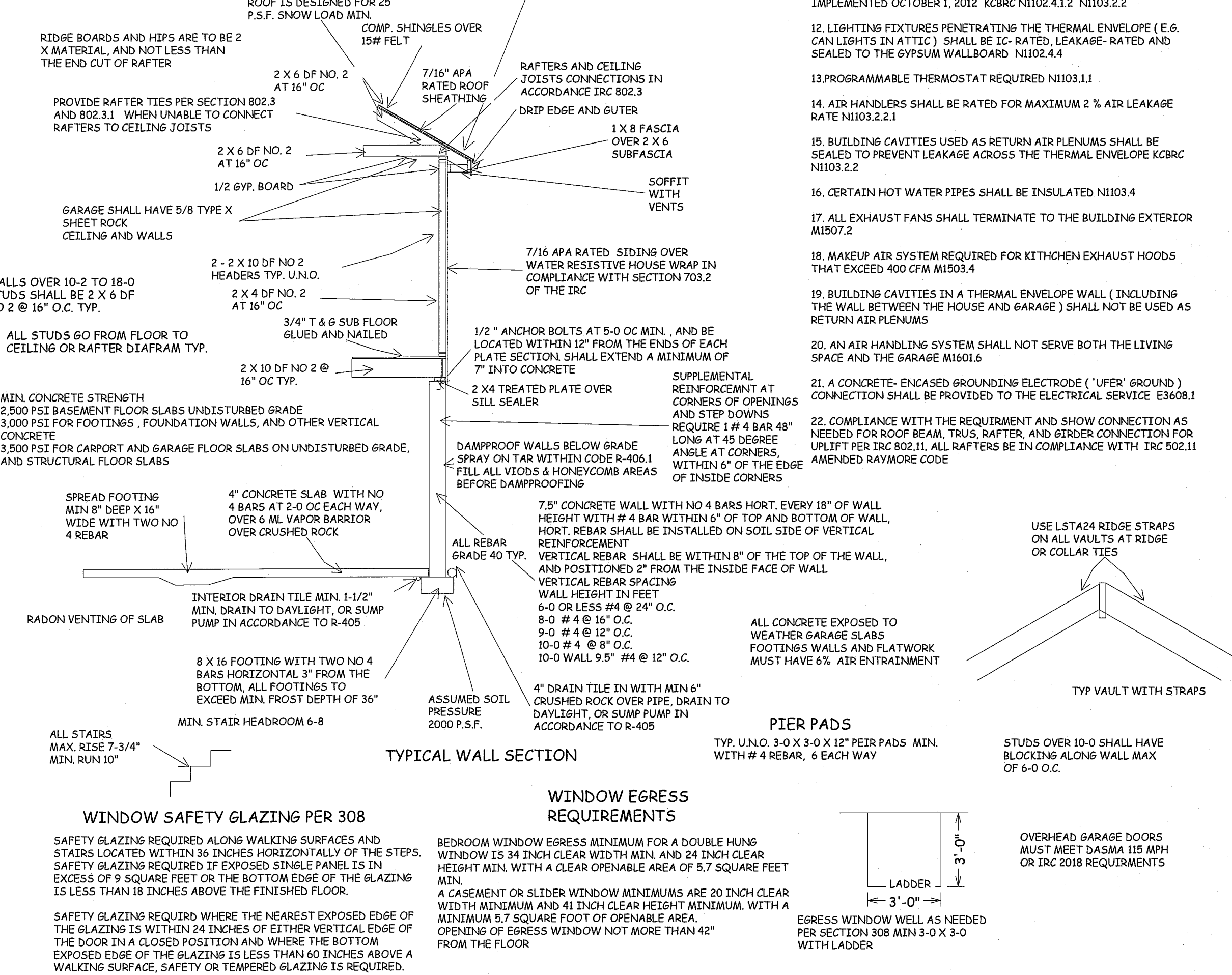
3 OF 5



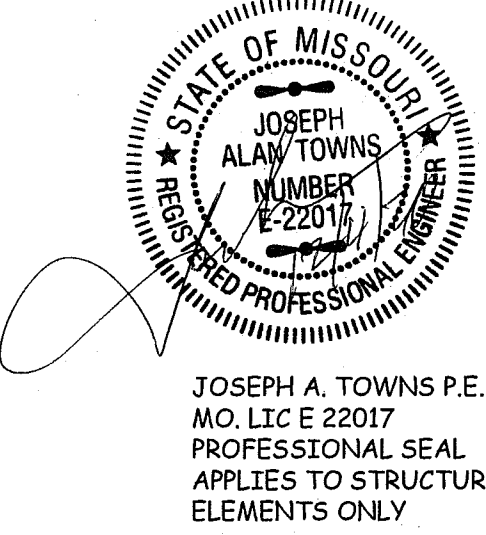
ROOF PURLIN PLAN

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



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



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SCALE
1/4" = 1-0

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12-5-20

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SHEET NO.

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EXPOSURE CATEGORY B 30-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 ^b (feet)	Method LIB ^c	Method GB	Methods DWB, WSP, SFB, PFB, PCP, HFS, BV-WSP, ABW, PFH, 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

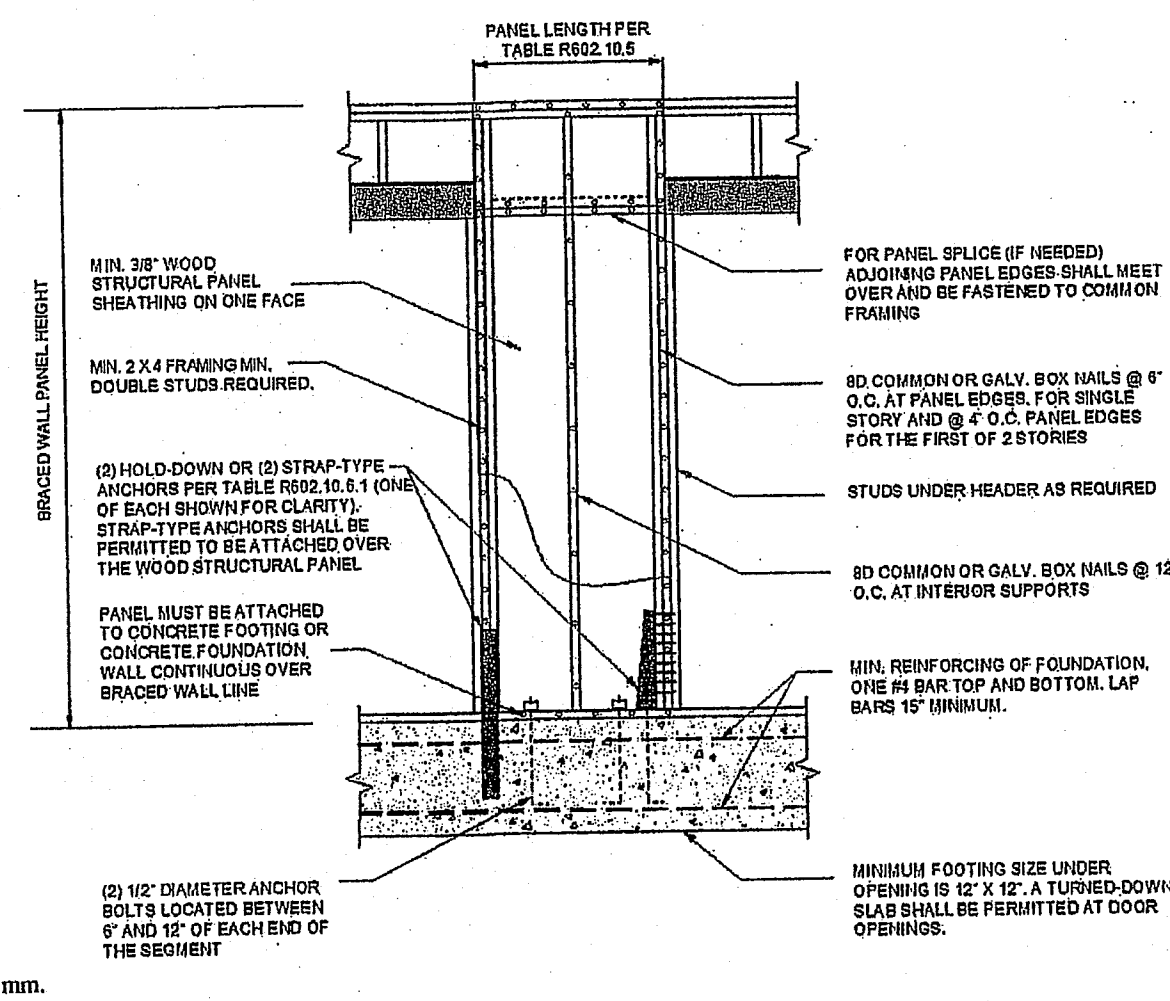


FIGURE R602.10.5.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

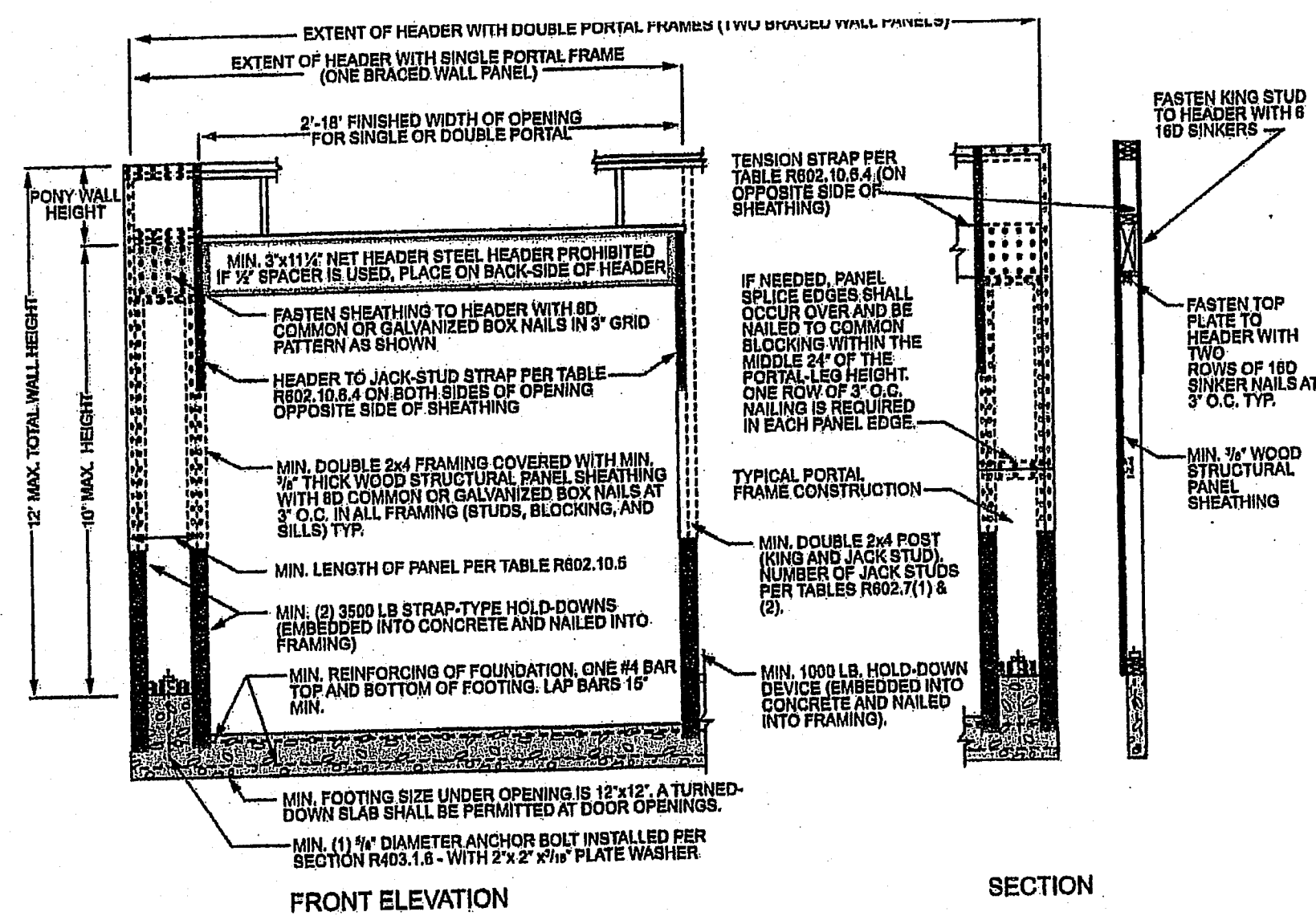


FIGURE R602.10.5.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a	
			Fasteners	Spacing
LIB Let-in-bracing	1 x 4 wood or approved metal straps at 45° to 60° angles for maximum 16\" stud spacing		Wood: 2-8d common nails or 3-8d (2 1/2\" long x 0.113\" dia.) nails Metal strap: per manufacturer	Wood: per stud and top and bottom plates Metal: per manufacturer
DWB 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	Per stud
WSP Wood structural panel (See Section R604)	3/8\"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6\" edges 12\" field Varies by fastener
BV-WSP Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	3/8\"	See Figure R602.10.6.5	8d common (2 1/2\" x 0.131\" dia.) nails	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		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	3\" edges 6\" field
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	For all braced wall panel locations: 7\" edges (including top and bottom plates) 7\" field
PFB Particleboard sheathing (See Section R605)	1/2\" or 3/4\" for maximum 16\" stud spacing		For 1/2\" common (2\" long x 0.113\" dia.) nails For 3/4\" 8d common (2 1/2\" long x 0.131\" dia.) nails	3\" edges 6\" field
PCP Portland cement plaster	See Section R703.7 for maximum 16\" stud spacing		1 1/4\" long, 11 gage, 1/4\" dia. head nails or 1/4\" long, 16 gage staples	6\" o.c. on all framing members
HFS Hardboard panel siding	3/8\" 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	3/4\"		See Section R602.10.6.1	See Section R602.10.6.1

METHOD (See Table R602.10.4)	MINIMUM LENGTH ^a (feet)					CONTRIBUTING LENGTH (inches)
	8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, PFB, PCP, HFS, 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
CS-WSP, CS-SFB	≤ 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	38	36
	100	—	44	40	39	36
	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)	Partial header height					Actual ^b
	8 feet	9 feet	10 feet	11 feet	12 feet	
PFH	Supporting roof only	16	16	16	Note c	Note c
	Supporting one story and roof	24	24	24	Note c	Note c
PFG	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 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.

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a	
			Fasteners	Spacing
PFH Portal frame with hold-downs	3/4\"		See Section R602.10.6.2	See Section R602.10.6.2
PFG Portal frame at garage	3/8\"		See Section R602.10.6.3	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)	6\" edges 12\" field Varies by fastener
CS-G ^b 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	3/8\"		See Section R602.10.6.4	See Section R602.10.6.4
CS-SFB ^c Continuously sheathed structural fiberboard	1/2\" 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	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, D₁, D₂, and D₃.
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 D₁, D₂, and D₃, roof covering dead load shall not exceed 3 psf.
c. Garage openings adjacent to a Method CS-PF 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-PF 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.

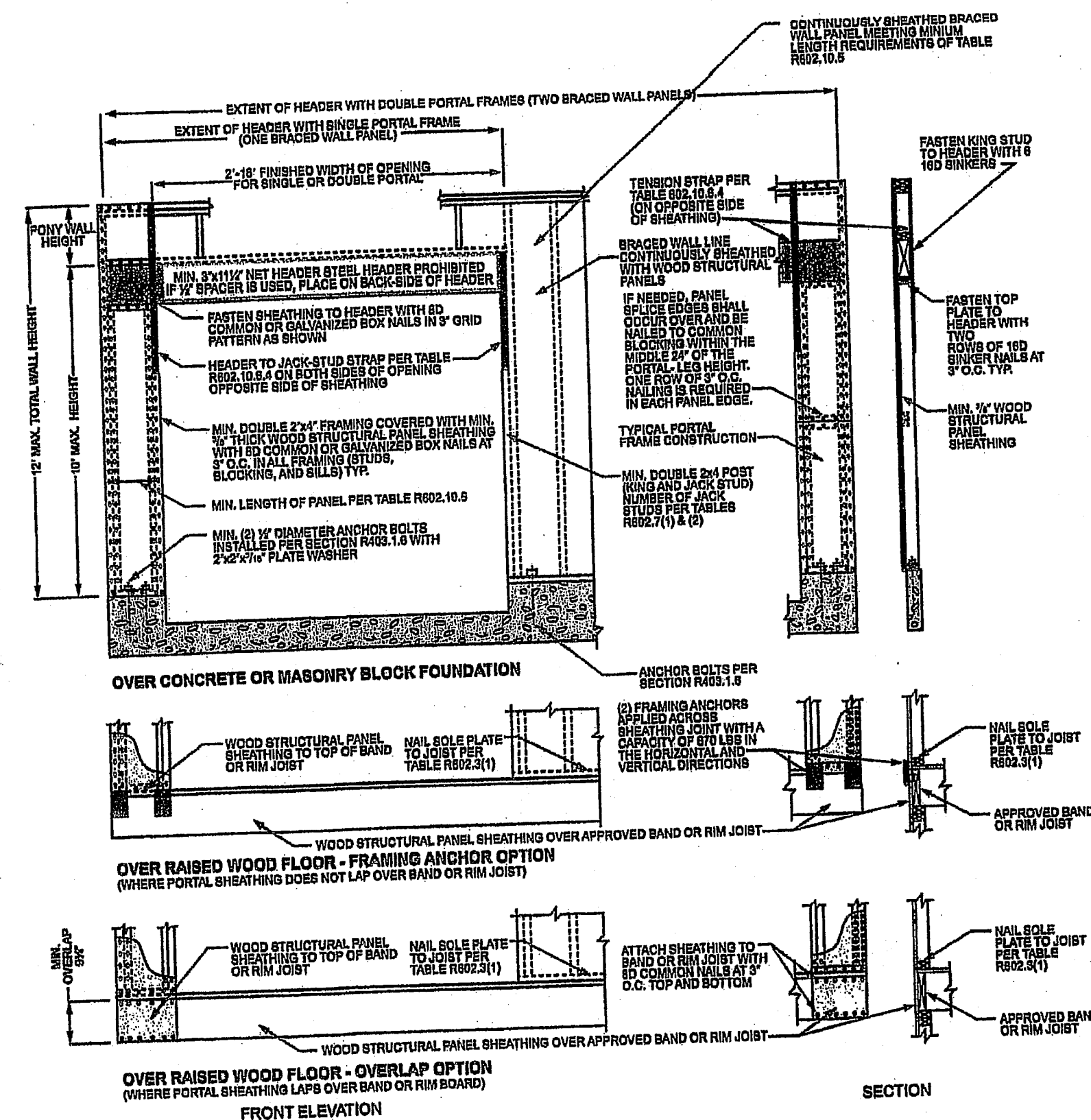


FIGURE R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

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

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3105 SW BLUE RIBBON STREET
LEE SUMMIT MO

SCALE
1/4" = 1-0

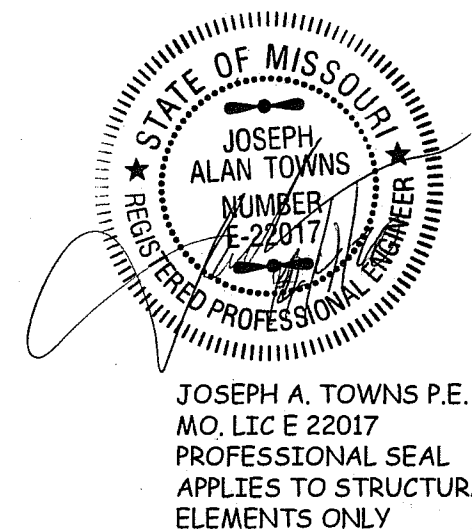
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