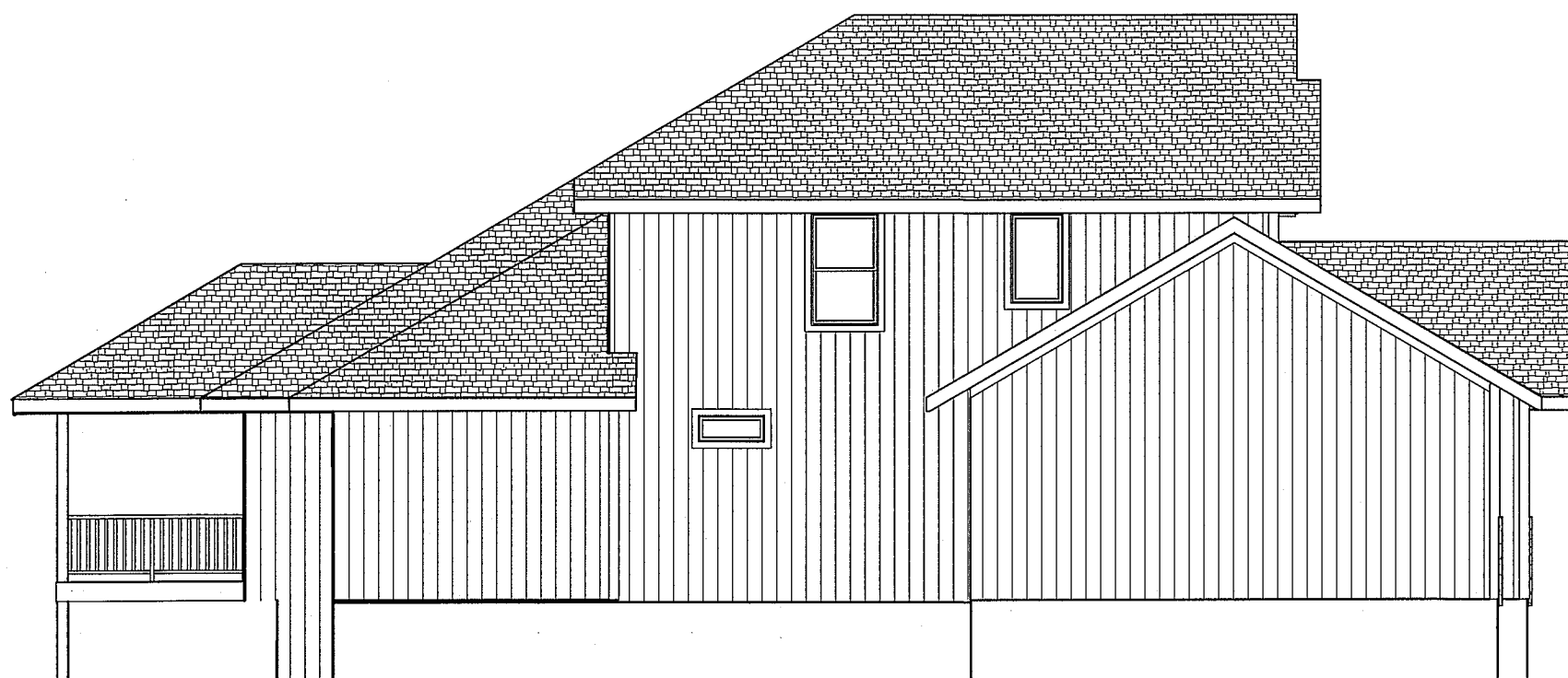
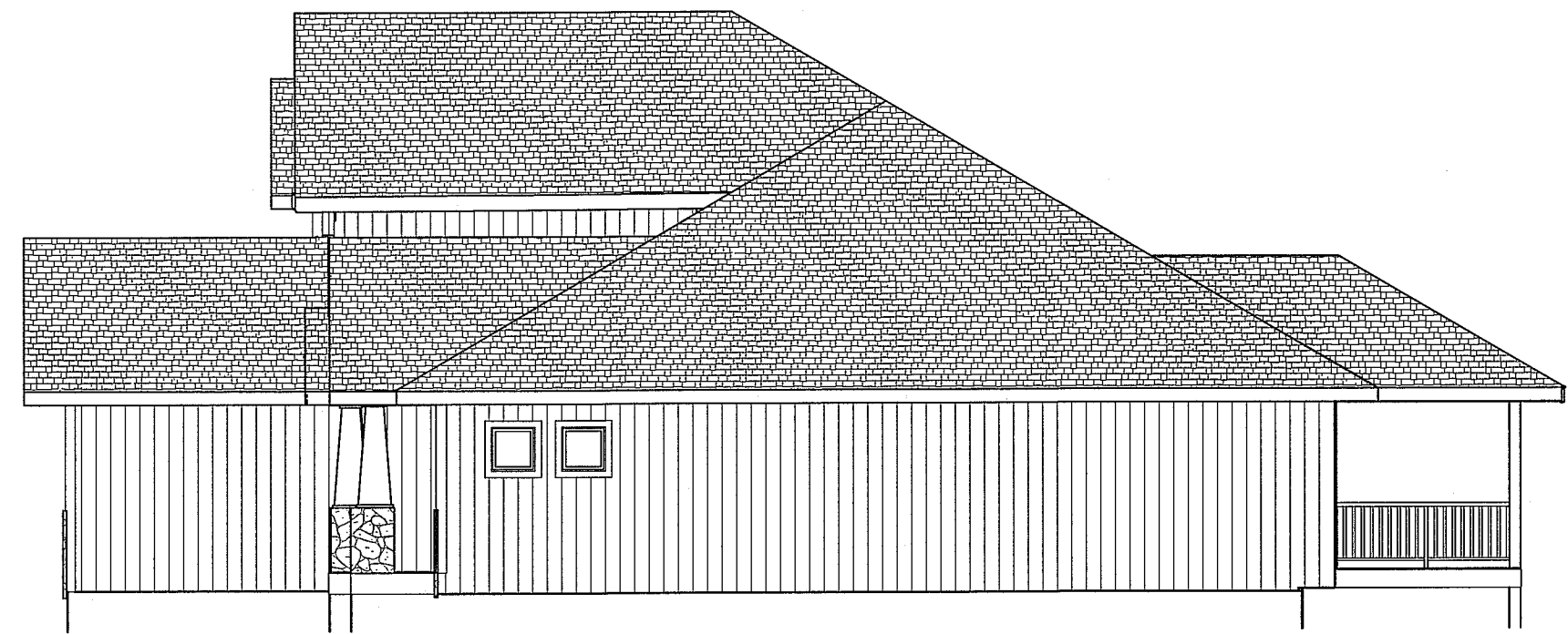




FRONT EL.  
STUCCO & STONE



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



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



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

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
08/05/2021

STATE OF MISSOURI  
JOSEPH ALAN TOWNS  
NUMBER E-22017  
REGISTERED PROFESSIONAL ENGINEER  
JOSEPH A. TOWNS P.E.  
MO. LIC E 22017  
PROFESSIONAL SEAL  
APPLIES TO STRUCTURAL  
ELEMENTS ONLY

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

NICK ZVACEK HOMES  
CARTER  
LOT 152 MONTICELLO  
4716 NE FREEHOLD DR  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

DATE  
5-10-21

PLAN NO.  
3523-152

SHEET NO.

1 OF 6

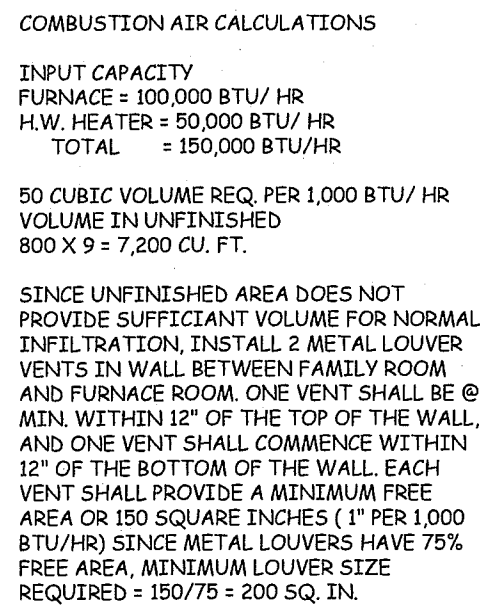
NICK ZVACEK HOMES  
CARTER  
LOT 152 MONTICELLO  
4716 NE FREEHOLD DR  
LEE SUMMIT MO

DATE  
5-10-21

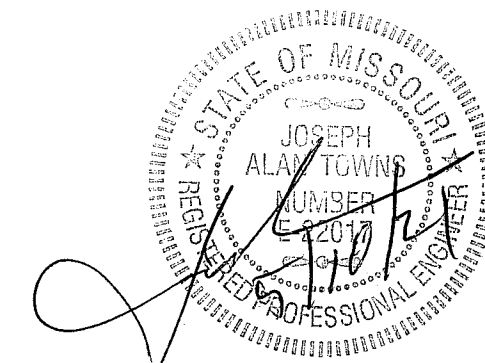
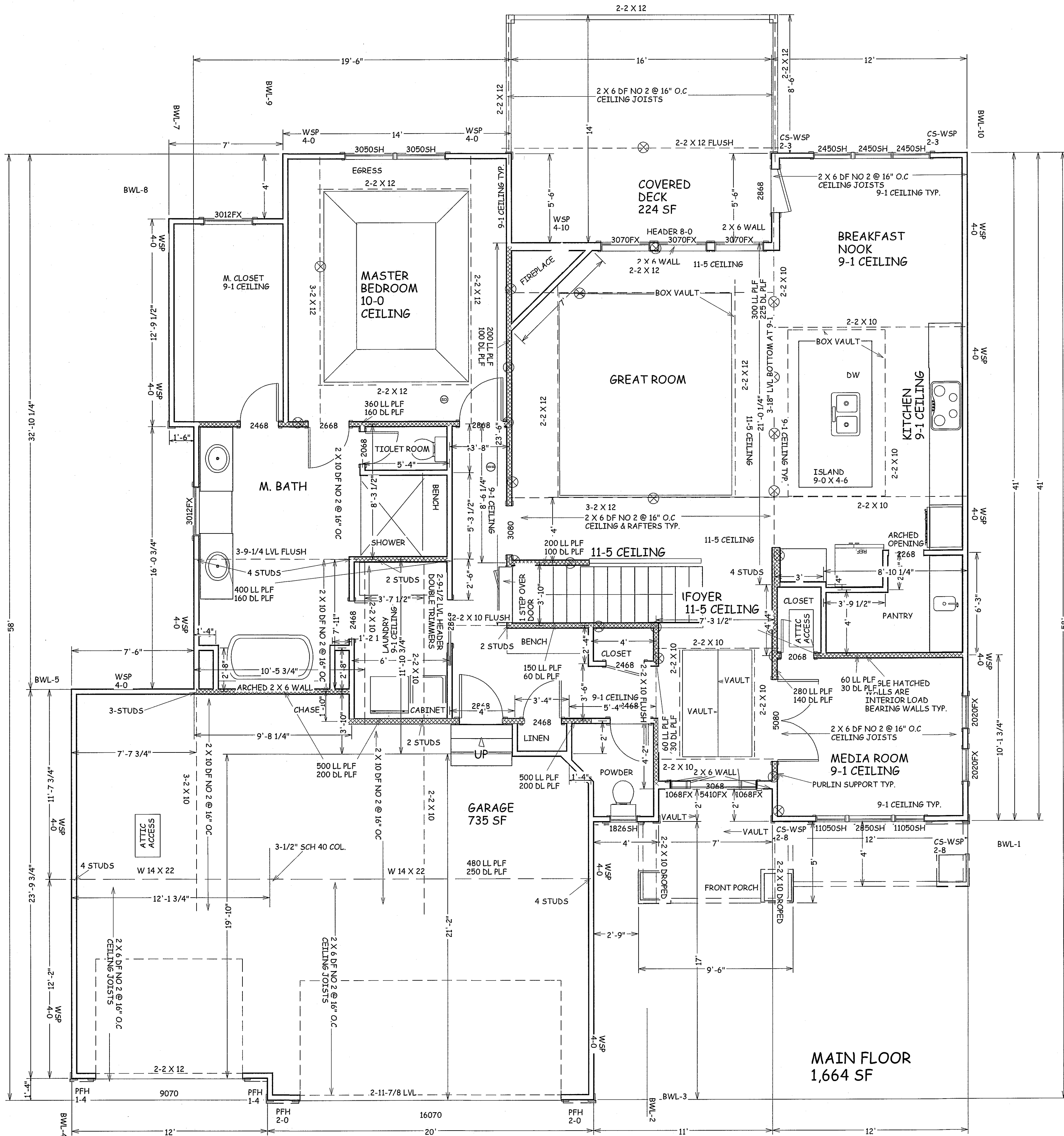
SHEET NO

**RELEASE FOR  
CONSTRUCTION**  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

JOSEPH A. TOWNS P.E.  
MO. LIC E 22017  
PROFESSIONAL SEAL  
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SCALE  
1/4" = 1-0

DATE  
5-10-21

PLAN NO.  
3523-152

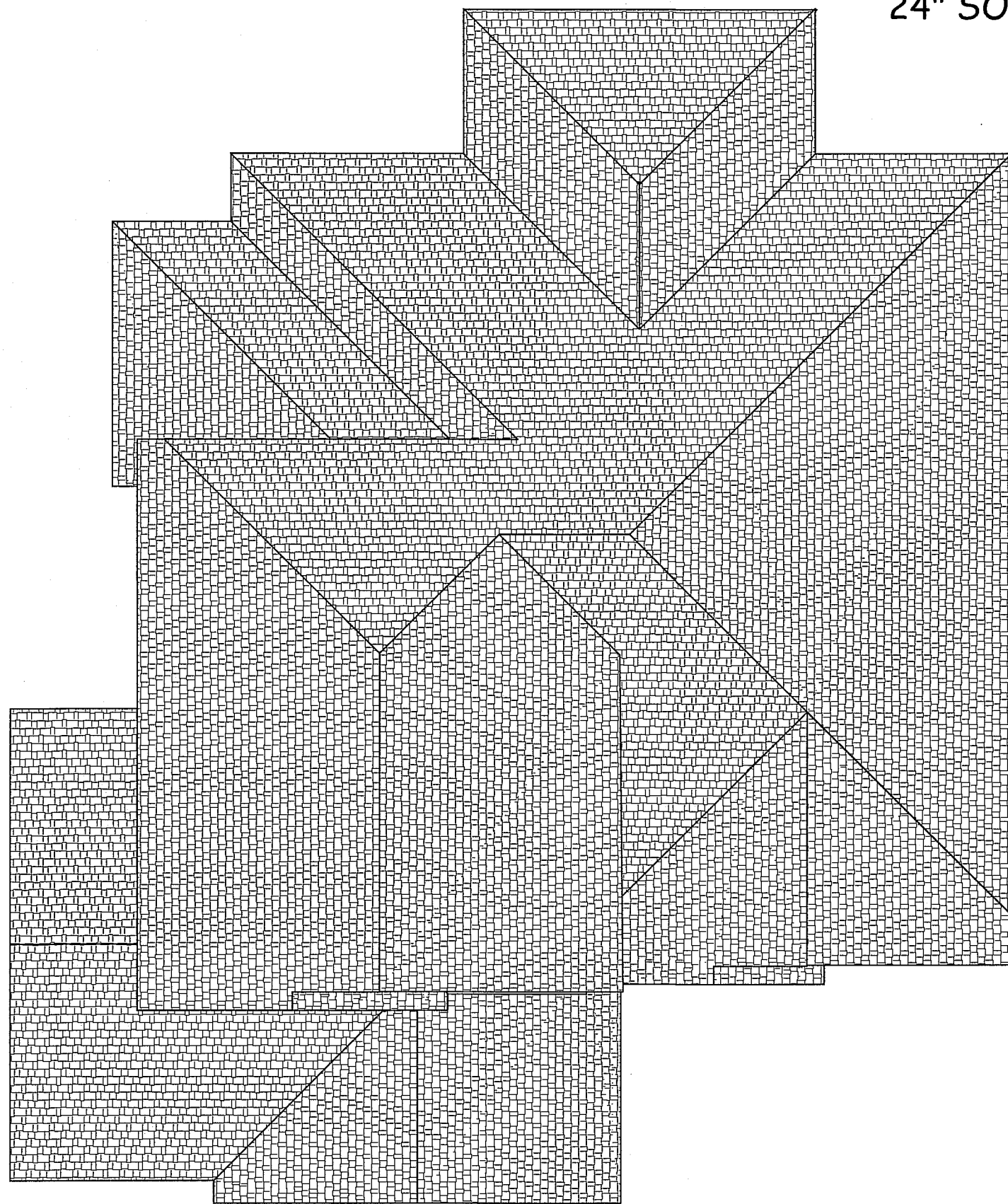
SHEET NO.

3 OF 6

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

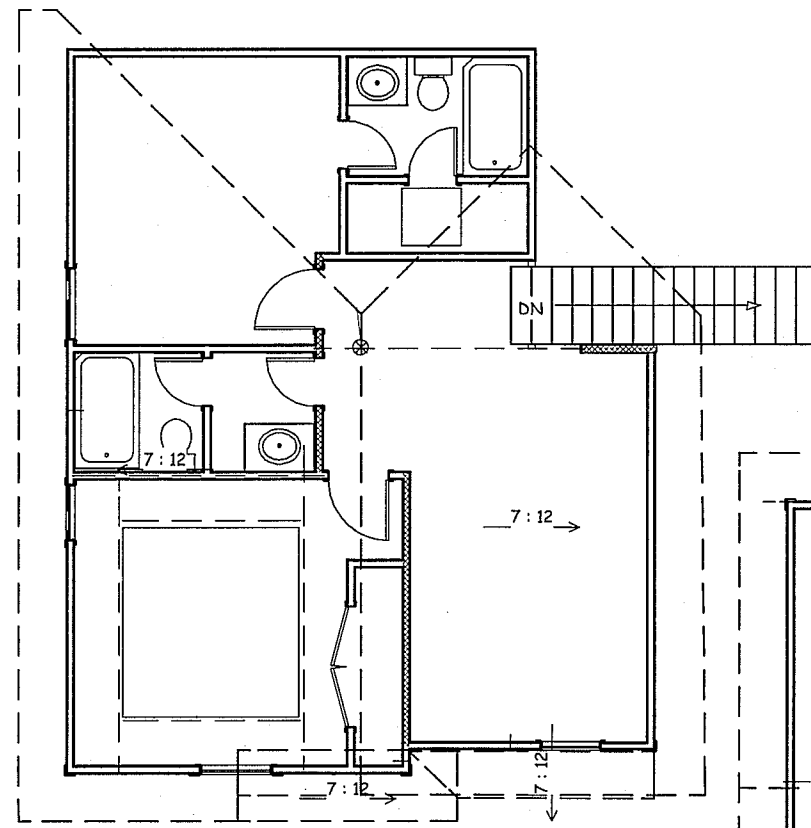
08/05/2021





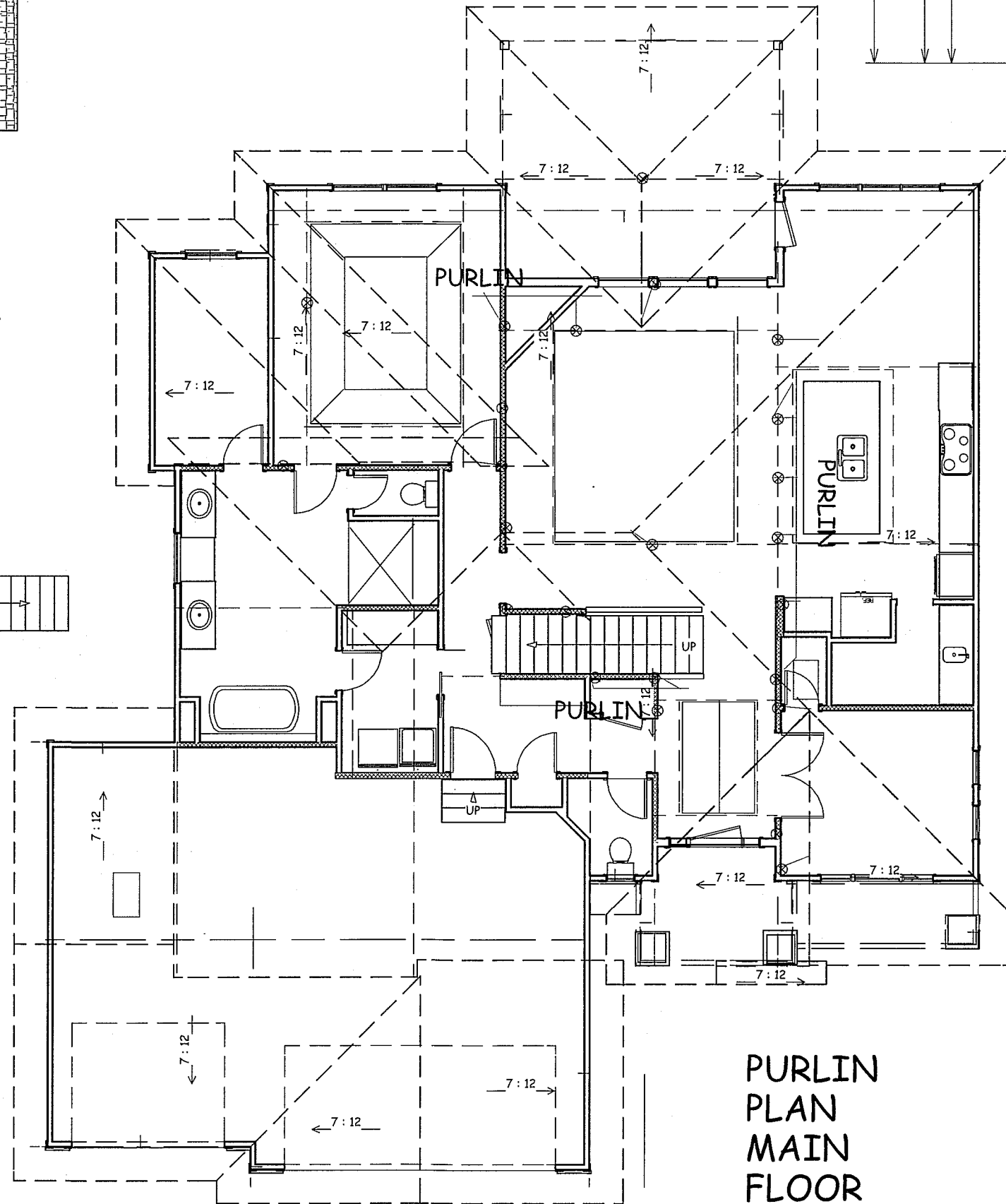
ROOF PLAN  
1/8" = 1-0  
ALL ROOF PITCHES 7/12

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



PURLIN PLAN  
SECOND FLOOR  
1/8" = 1-0

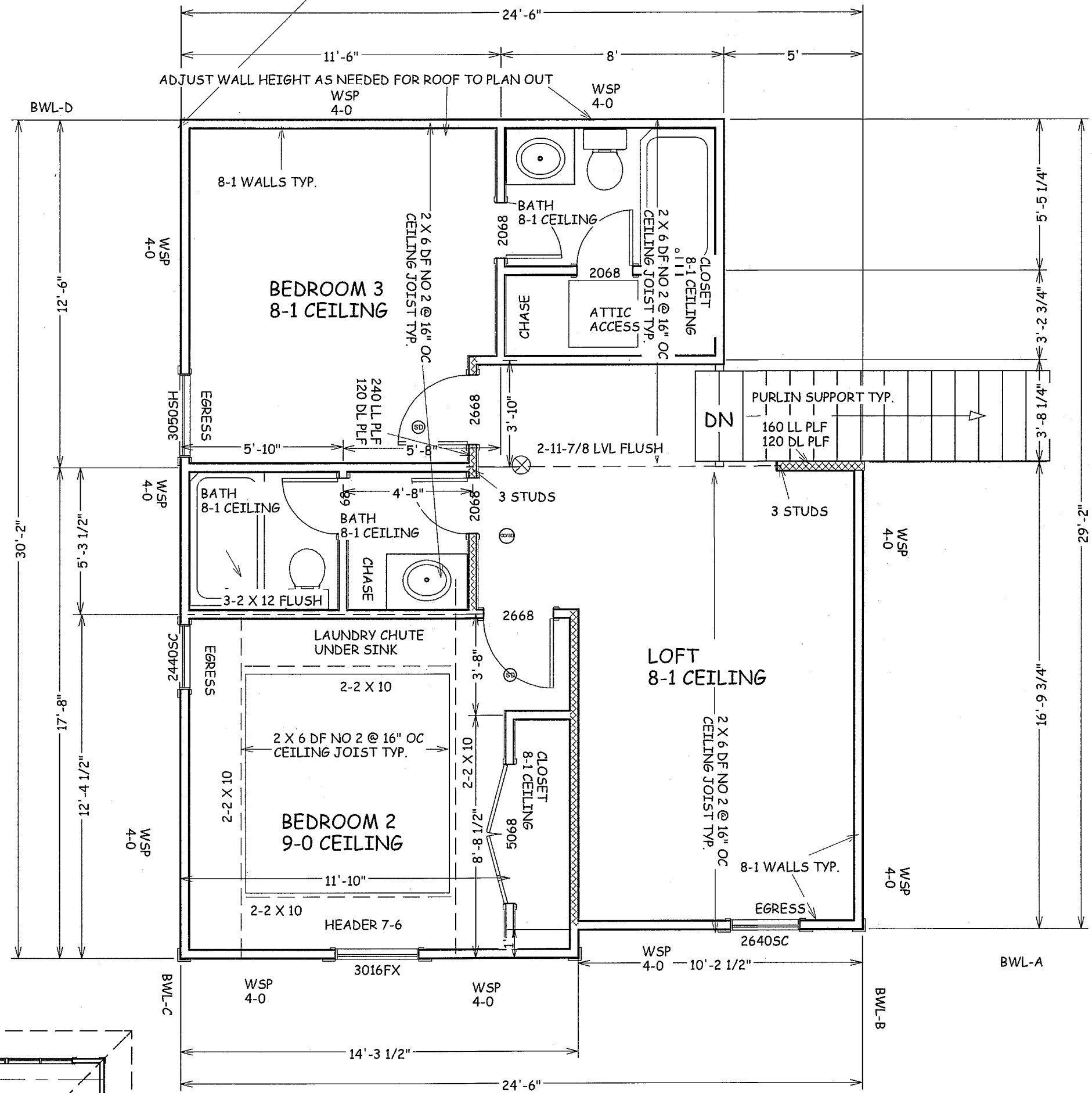
NO PURLINS  
REQUIRED  
SECOND FLOOR



PURLIN PLAN  
MAIN FLOOR  
1/8" = 1-0

24" SOFFITS TYP.

LINES UP WITH CORNER OF MASTER BATH BELOW



SECOND FLOOR  
667 SF

BUILD IN ACCORDANCE WITH  
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CARTER  
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LEE SUMMIT MO

SCALE  
1/4" = 1-0

DATE  
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PLAN NO.  
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SHEET NO.

JOSEPH A. TOWNS P.E.  
MO. LIC E 22017  
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4 OF 6  
RELEASE FOR  
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08/05/2021



BUILD IN ACCORDANCE WITH  
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NICK ZVACEK HOMES  
CARTER  
LOT 152 MONTICELLO  
4716 NE FREEHOLD DR  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

DATE  
5-10-21

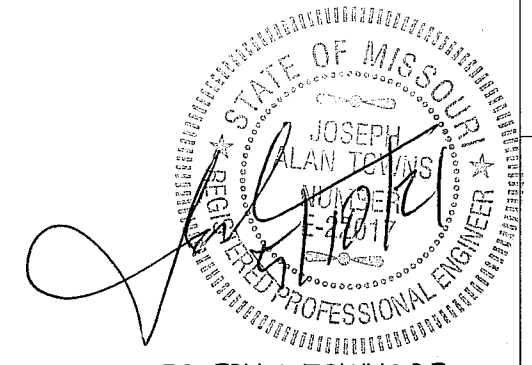
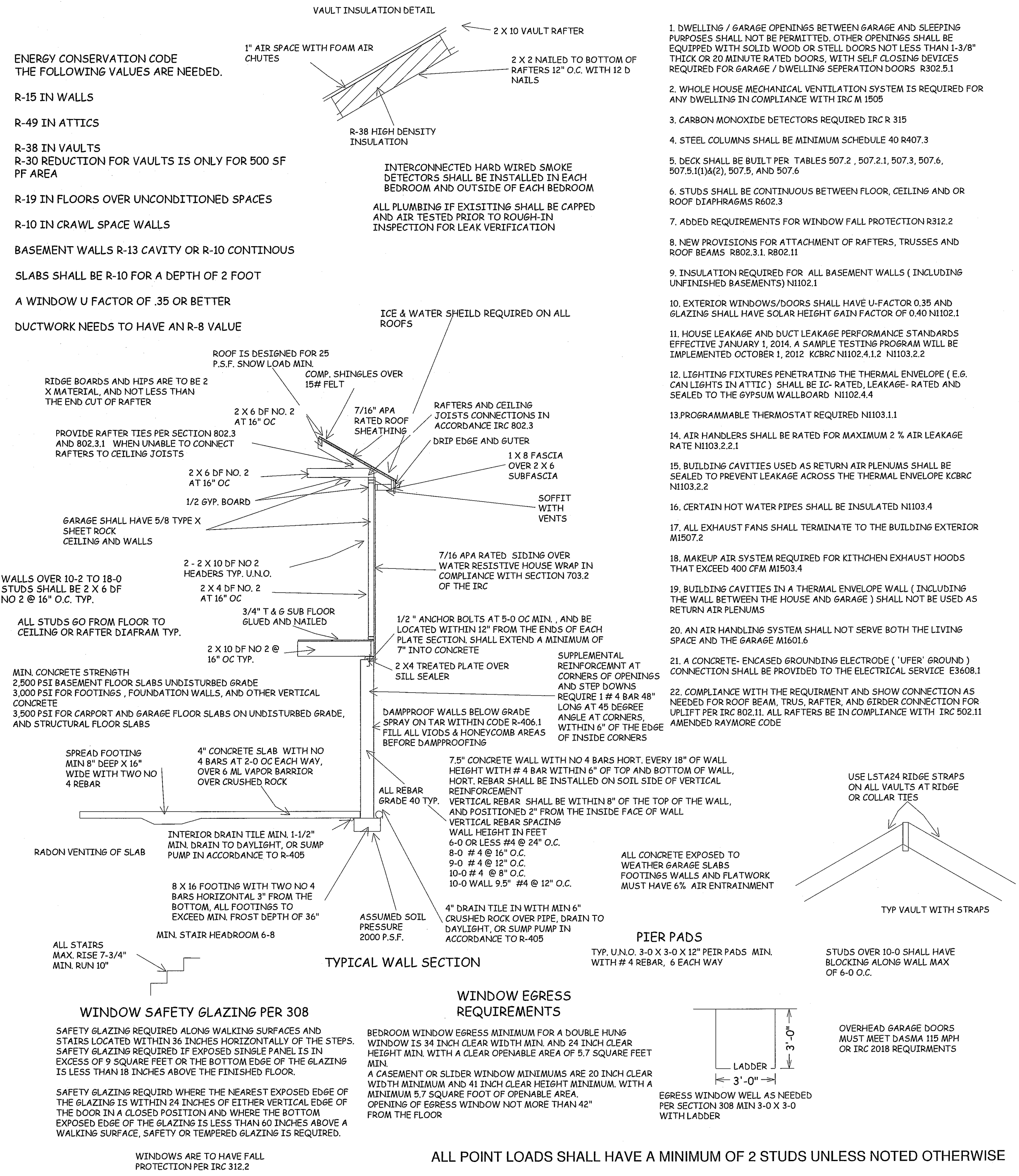
PLAN NO.  
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5 OF 6

RELEASE FOR  
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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 <sup>a</sup>				
Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing <sup>b</sup> (feet)	Method LIB <sup>c</sup>	Method GB	Methods DWB, WSP, SFB, FBS, PCP, HFS, BV-WSP, ABW, PFH, FCF, 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

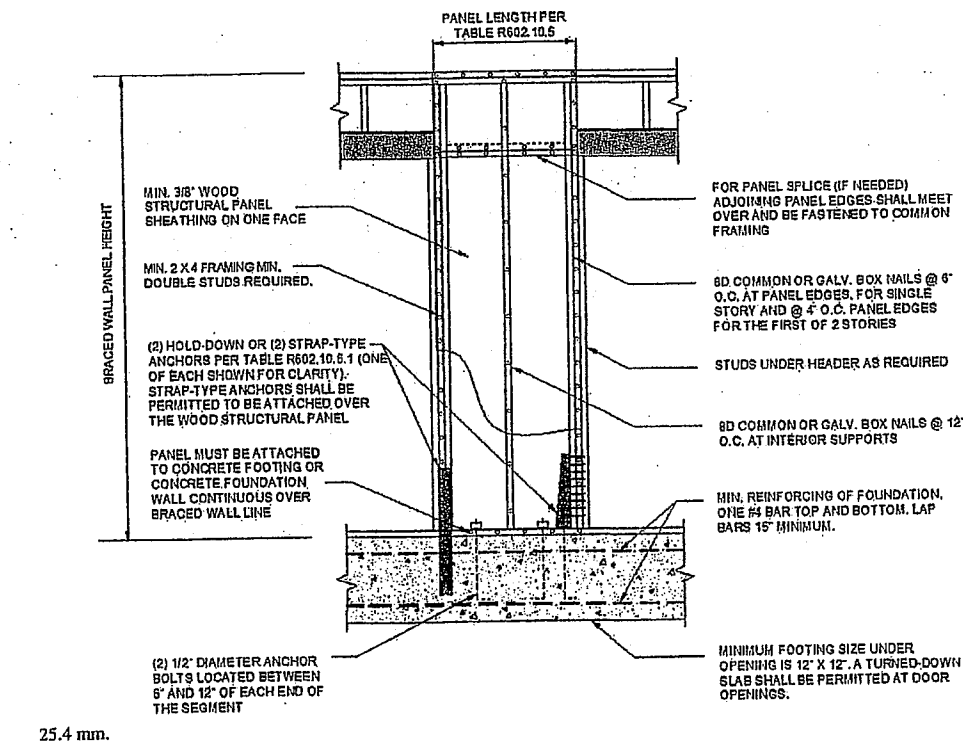


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL

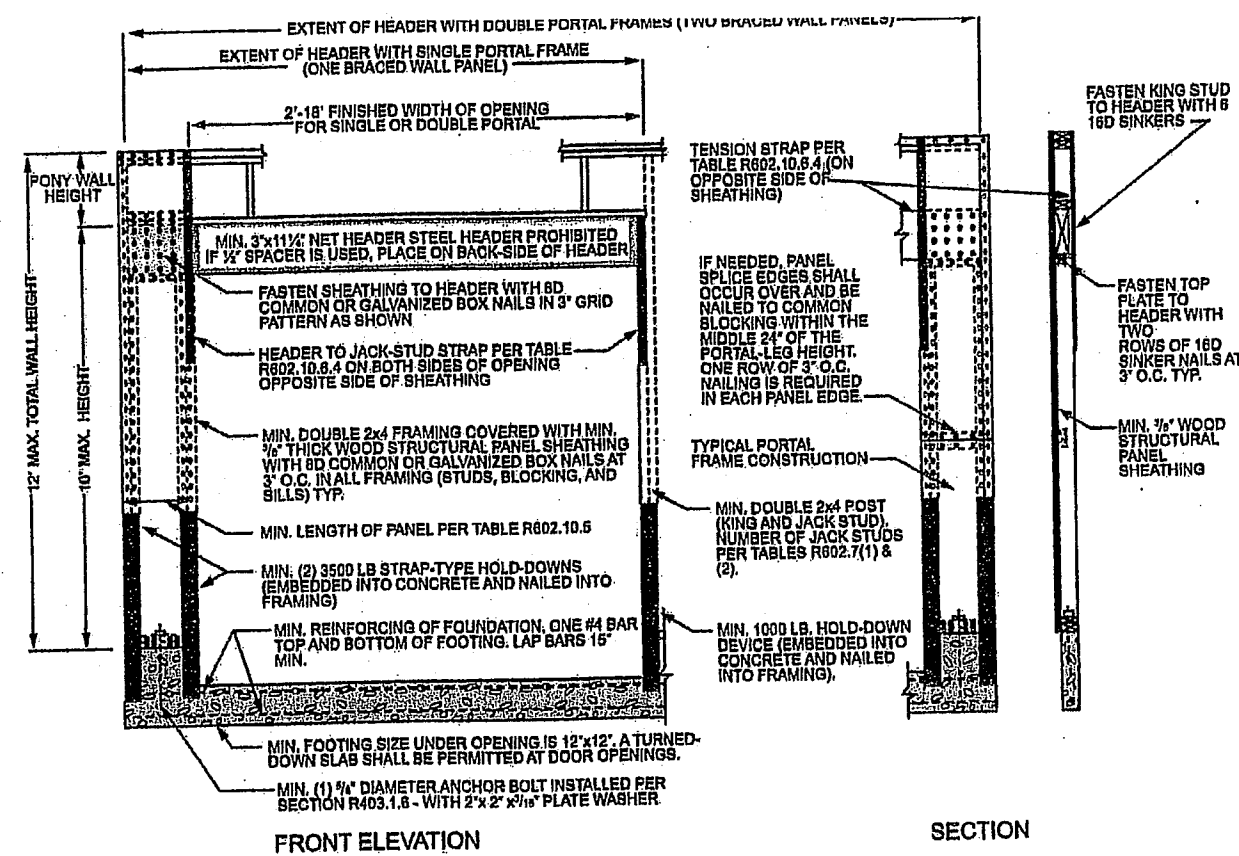


FIGURE R602.10.6.2  
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA <sup>a</sup>	
Incumbent Bracing Methods	LIB Let-in-bracing		Fasteners: Wood: 2-8d common nails or 3-8d (2 1/2\"/>	Spacing: Wood: per stud and top and bottom plates Metal: per manufacturer
	DWB Diagonal wood boards		2-8d (2 1/2\"/>	Per stud
	WSP Wood structural panel (See Section R604)		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
	BV-WSP <sup>b</sup> Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)		8d common (2 1/2\"/>	4\"/>
	SFB Structural fiberboard sheathing		1 1/2\"/>	3\"/>
	GB Gypsum board		Nails or screws per Table R602.3.5 for interior locations	For all braced wall panel locations: 7\"/>
	FBS Particleboard sheathing (See Section R605)		For 1/2\"/>	3\"/>
	PCP Portland cement plaster		1 1/2\"/>	6\"/>
	HFS Hardboard panel siding		0.092\"/>	4\"/>
	ABW Alternate braced wall		See Section R602.10.6.1	See Section R602.10.6.1

METHOD (See Table R602.10.4)	MINIMUM LENGTH <sup>a</sup> (inches)					CONTRIBUTING LENGTH (inches)
	8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, FBS, PCP, HFS, BV-WSP	48	48	48	53	58	Actual <sup>b</sup>
GB	48	48	48	53	58	Double sided = Actual Single sided = 0.5 x Actual
LIB	55	62	69	NP	NP	Actual <sup>b</sup>
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42
	SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub> , 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	54	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	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					
	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
PFH		24	27	30	Note d	1.5 x Actual <sup>b</sup>
CS-PF	SDC A, B and C	16	18	20	Note e	Note e
	SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub>	16	18	20	Note e	Note e

For S<sub>f</sub>: 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 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.  
 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 <sup>a</sup>	
Incumbent Bracing Methods	PFH Portal frame with hold-downs		See Section R602.10.6.2	See Section R602.10.6.2
	PFH Portal frame at garage		See Section R602.10.6.3	See Section R602.10.6.3
Continuously Sheathed Methods	CS-WSP Continuously sheathed wood structural panel		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6\"/>
	CS-G <sup>b</sup> Continuously sheathed wood structural panel adjacent to garage openings		See Method CS-WSP	See Method CS-WSP
	CS-SFB Continuously sheathed portal frame		See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB <sup>c</sup> Continuously sheathed structural fiberboard		1 1/2\"/>	3\"/>

For S<sub>f</sub>: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.88 N/m<sup>2</sup>, 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<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>.  
 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<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>, 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 D<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>.  
 e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>1</sub> through D<sub>3</sub> only.

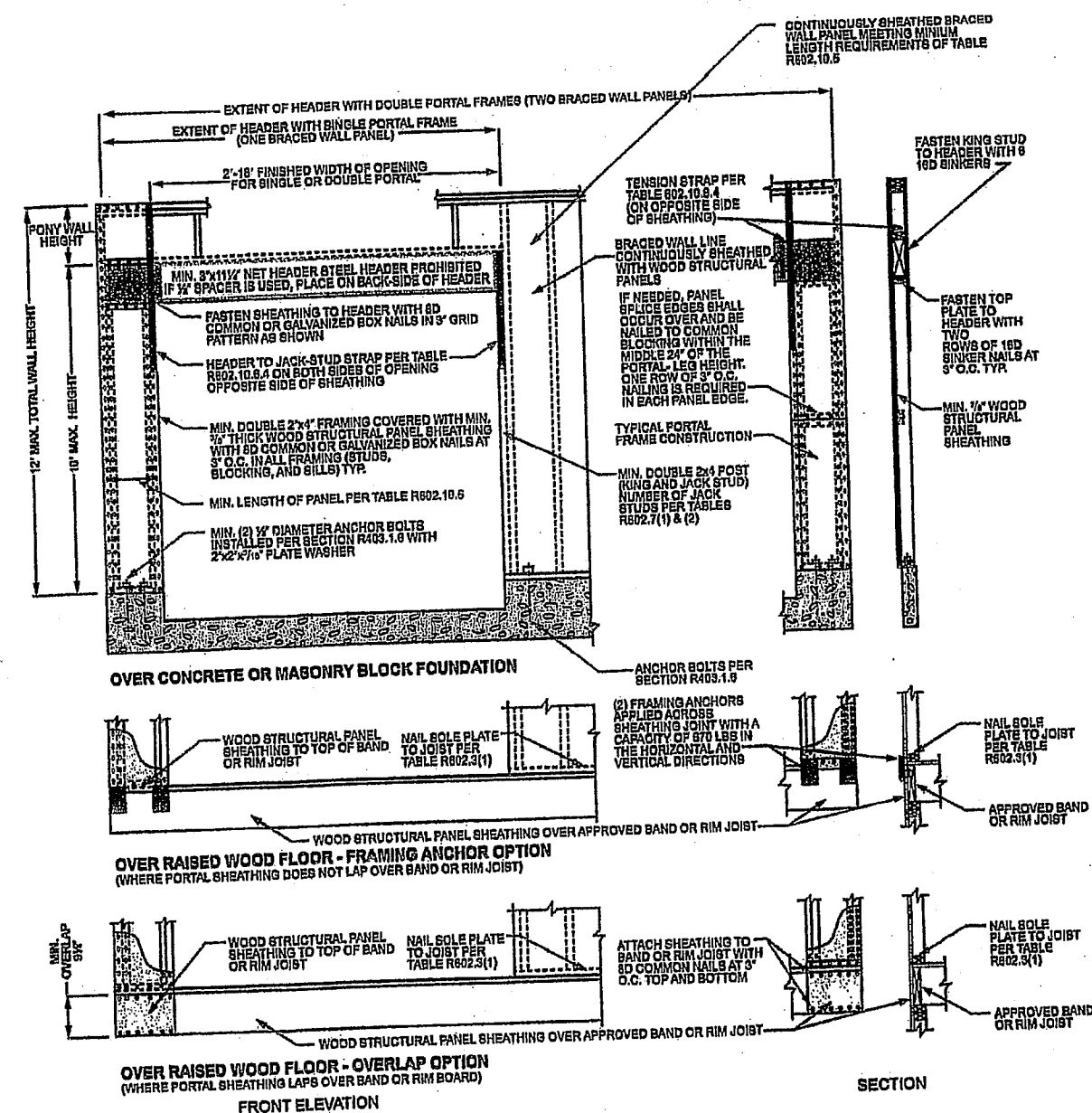


FIGURE R602.10.6.4  
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

BUILD IN ACCORDANCE WITH  
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CARTER  
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LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

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6 OF 6

RELEASE FOR  
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