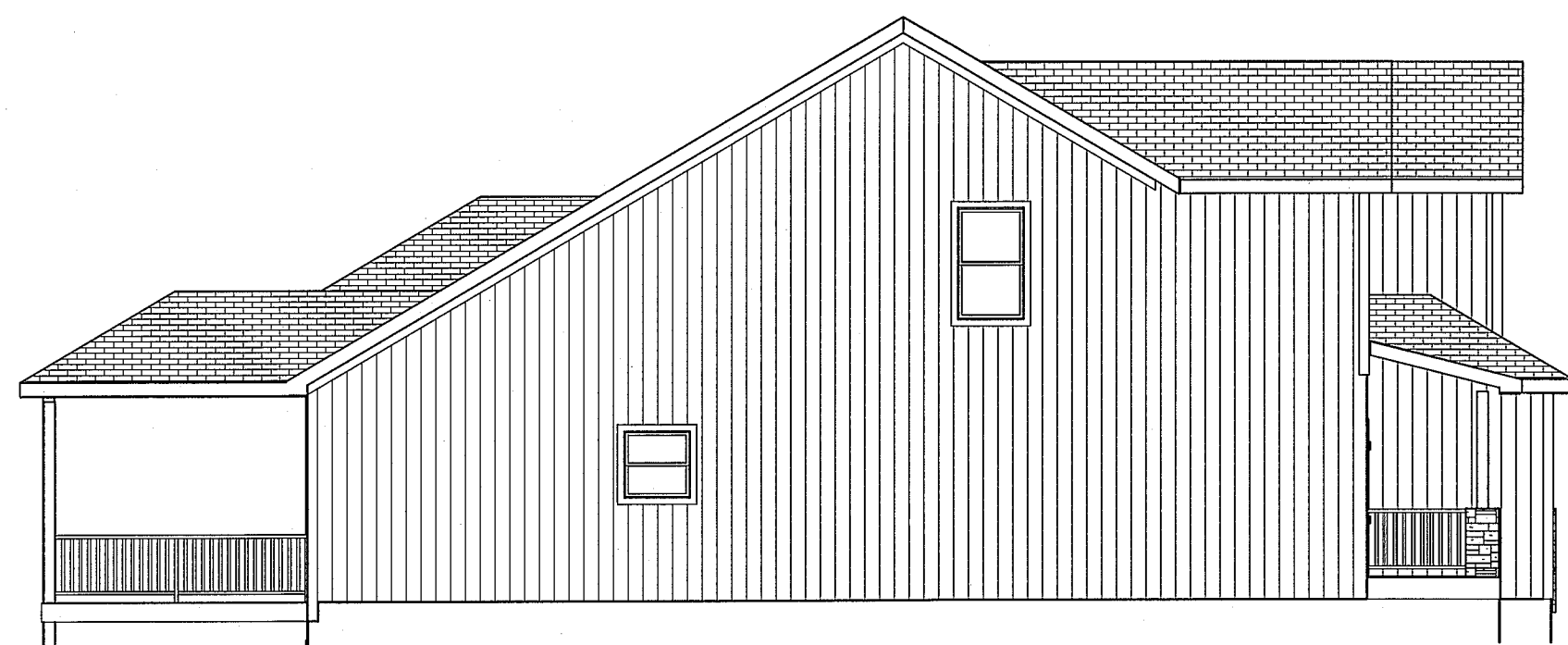


ROOF PLAN
1/8" = 1'-0"
ROOF PITCHES 7/12 U.N.O.
RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP. U.N.O.
HIPS AND RIDGES 2 X 8 DF NO 2 TYP. U.N.O.



FRONT EL.
BOARD & BATT, LAP
AND STONE

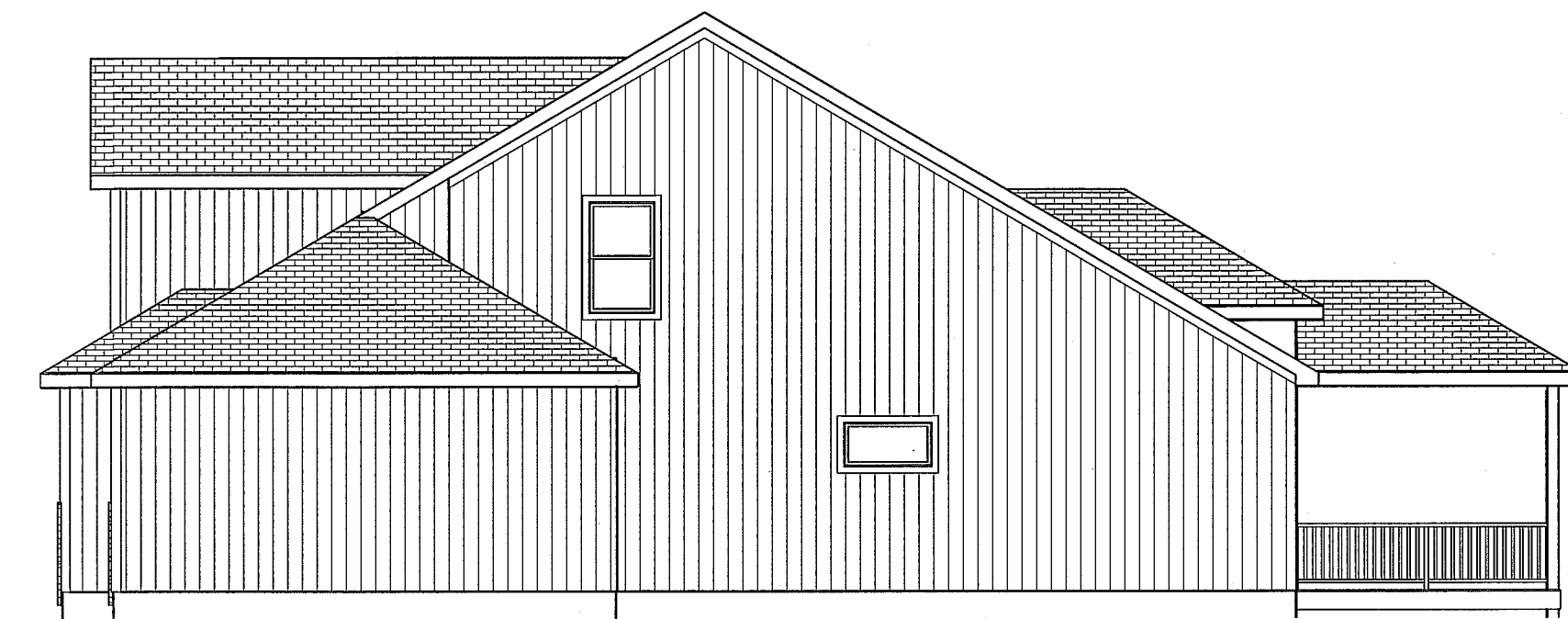


LEFT EL.
1/8" = 1'-0"

3 SIDES LP PANEL SIDING



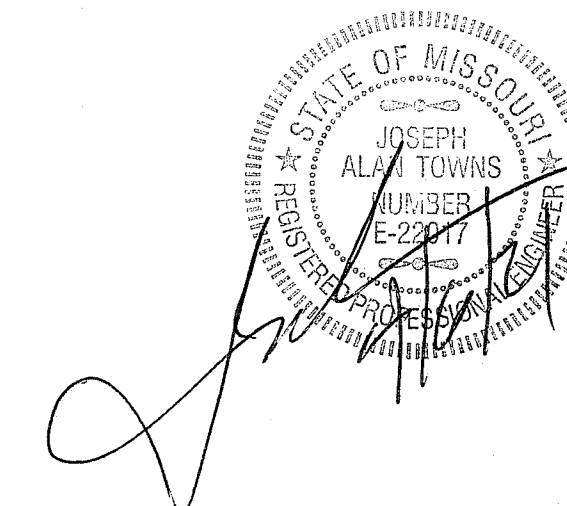
REAR EL.
1/8" = 1'-0"



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

3 SIDES LP PANEL SIDING

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/08/2021



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.

BEHOME LLC
LOT 123 MONTICELLO
4820 JAMESTOWN DR
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
4-6-21

PLAN NO.
3487

SHEET NO.
1 OF 5

DUCTWORK NEEDS TO HAVE AN R-8 VALUE

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

[illegible]

FOUNDATION PLAN
16 SF FINISHED

JOSEPH A. TOWNS P.E.
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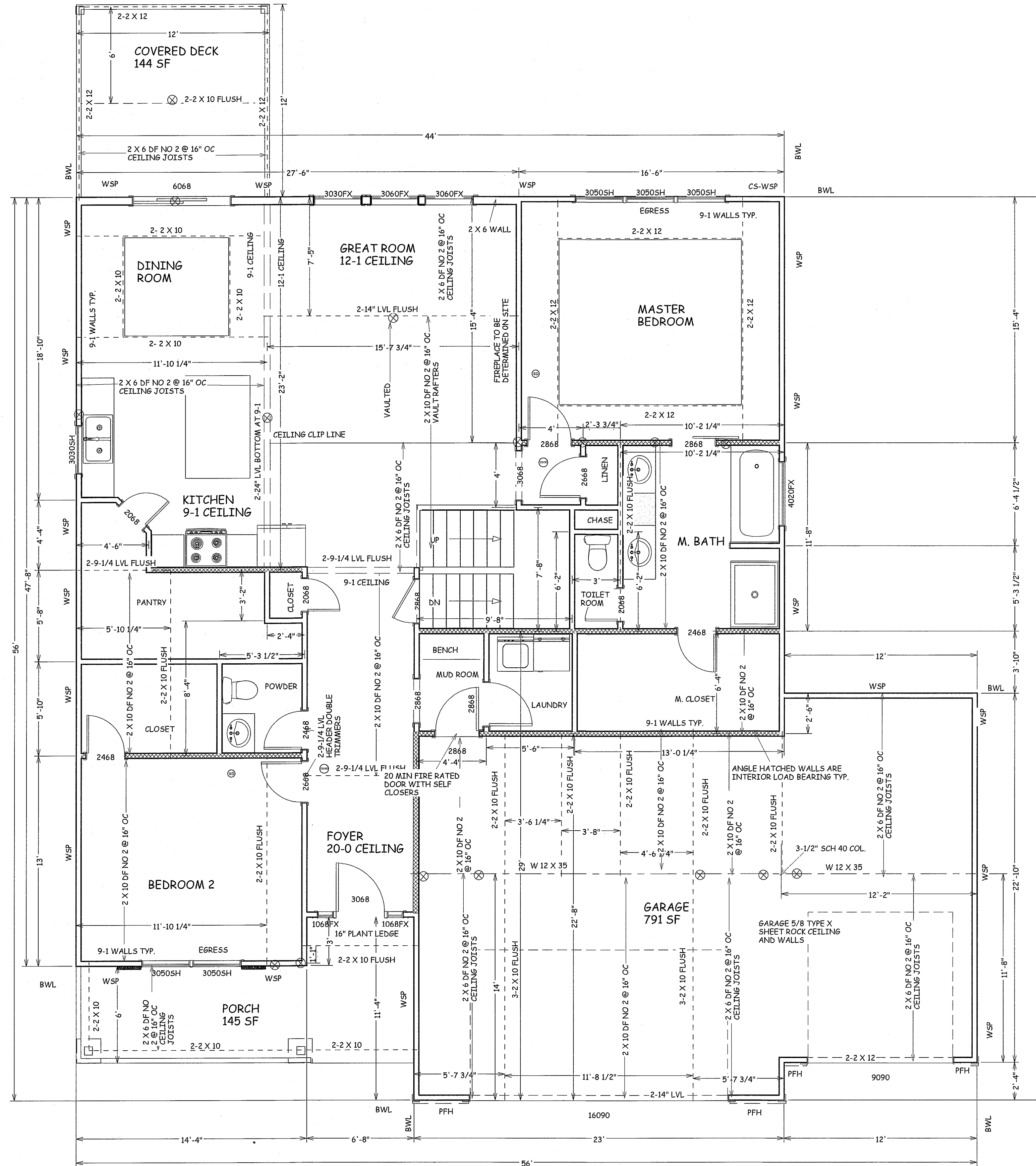
DATE
4-6-21

PLAN NO.

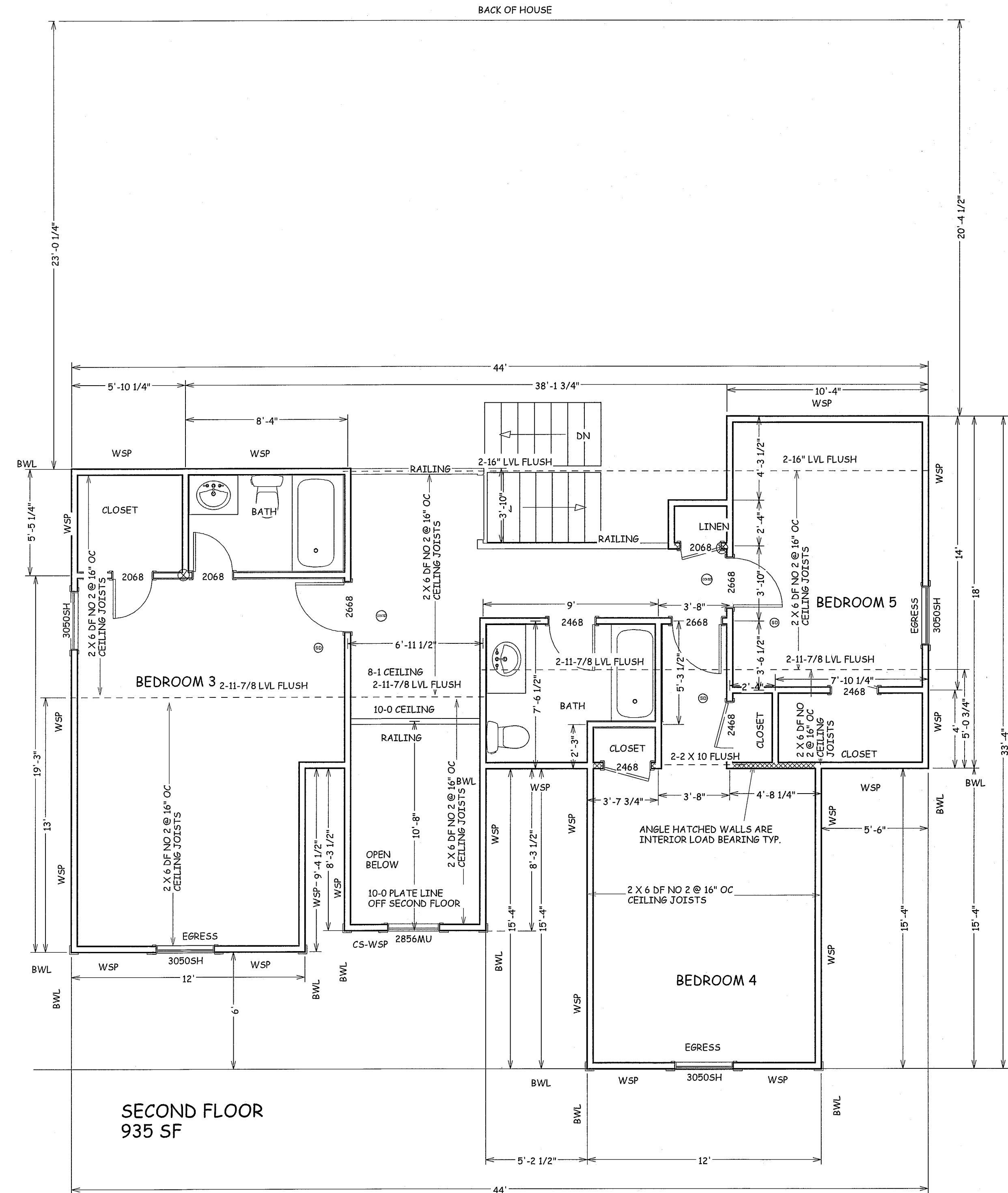
3487

SHEET NO.

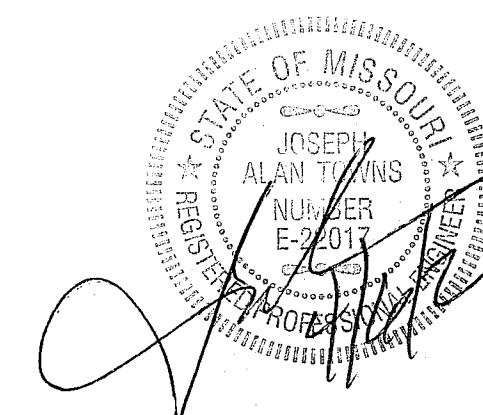
RELEASE FOR
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04/08/2021



MAIN FLOOR
1754 SF



SECOND FLOOR
935 SF



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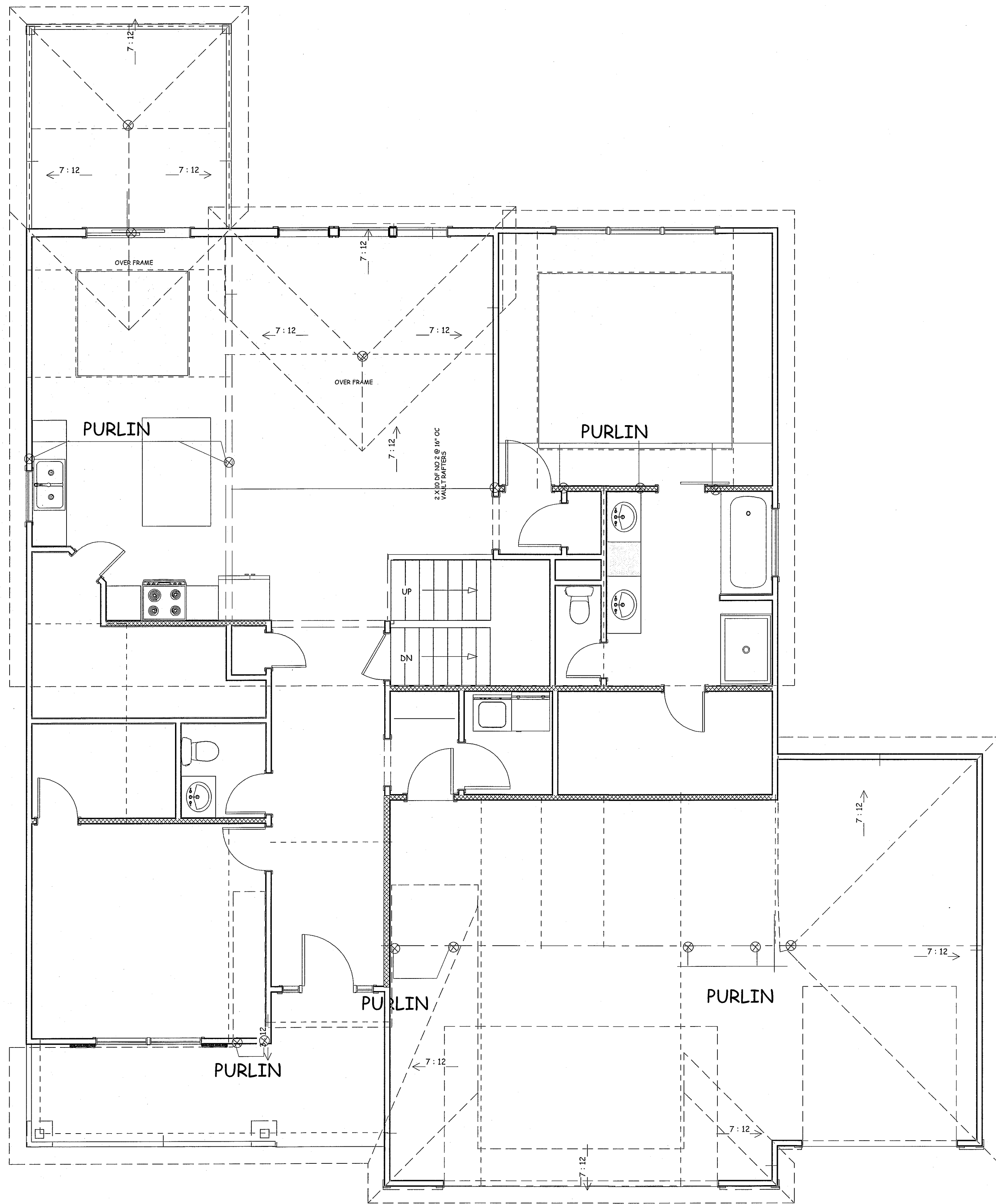
SCALE
1/4" = 1-0

DATE
4-6-21

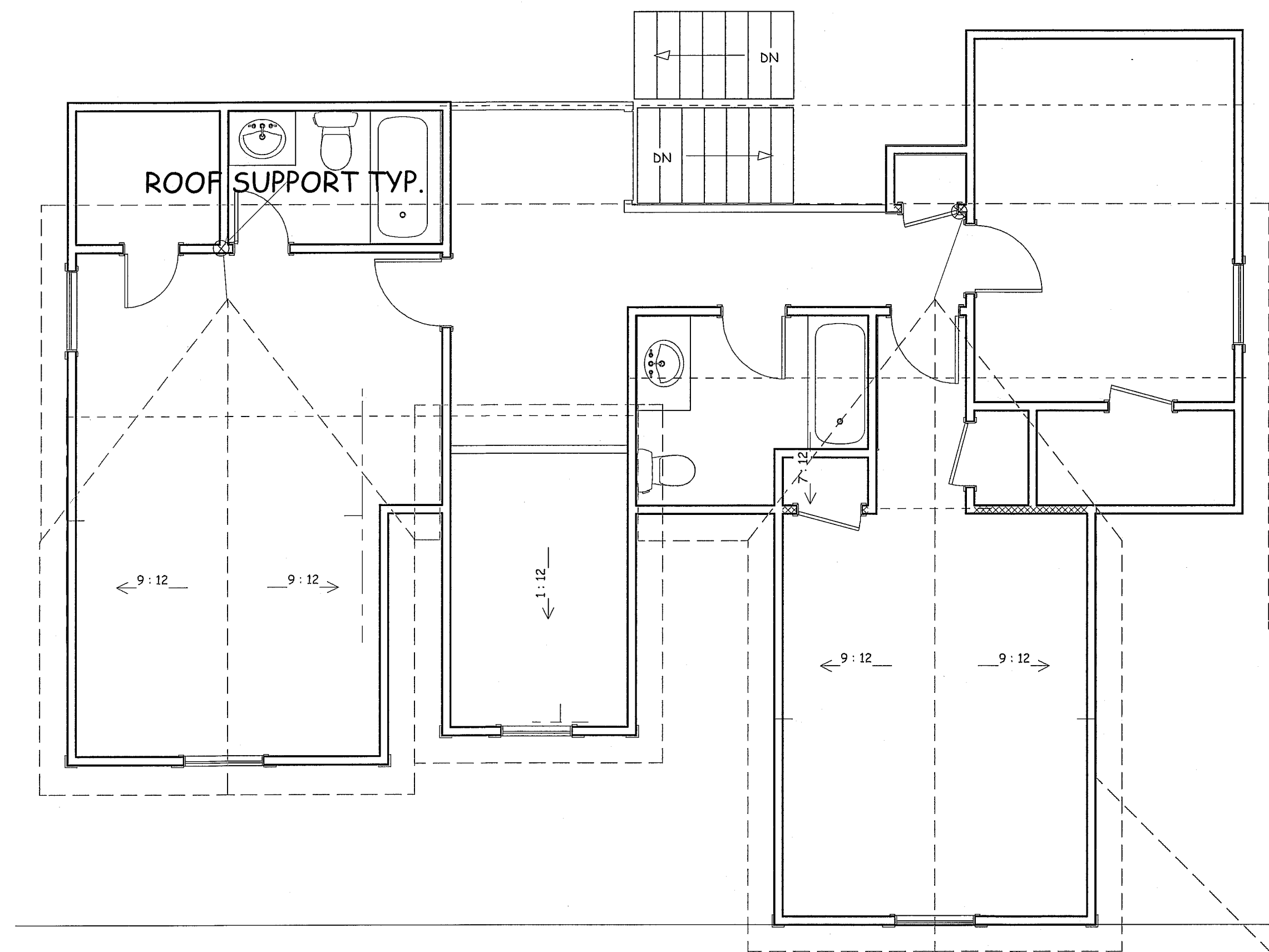
PLAN NO.
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SHEET NO.

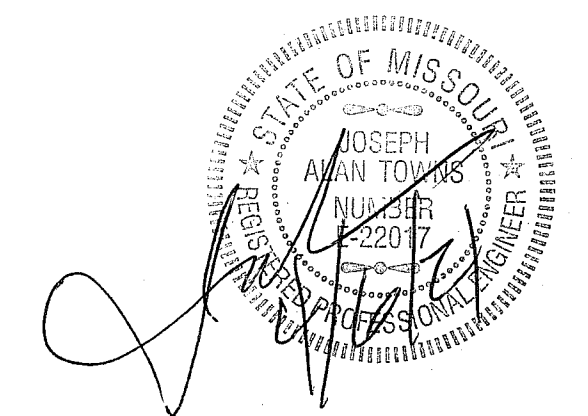
3 OF 3
RELEASE FOR
CONSTRUCTION
NOTED ON PLANS/REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/08/2021



MAIN FLOOR
PURLIN PLAN



SECOND FLOOR
PURLIN PLAN



JOSEPH A. TOWNS P.E.
MO. LIC E 22017
PROFESSIONAL SEAL
APPLIES TO STRUCTURAL
ELEMENTS ONLY

BUILT IN ACCORDANCE WITH
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1/4" = 1'-0"

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RELEASE FOR
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AS SHOWN IN PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/08/2021

EXPOSURE CATEGORY B • 30-FOOT MEAN ROOF HEIGHT • 15-FOOT WALL HEIGHT • 2 BRACED WALL LINES		MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE*				
Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	Method LIB ^b	Method GB	Methods DWB, WSP, SFB, FBS, FCP, HFS, BV-WSP, ABW, PFH, FPG, CS-SFB	Methods CS-WSP, CS-G, CS-PF
≤ 115		10	3.5	3.5	2.0	3.0
		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

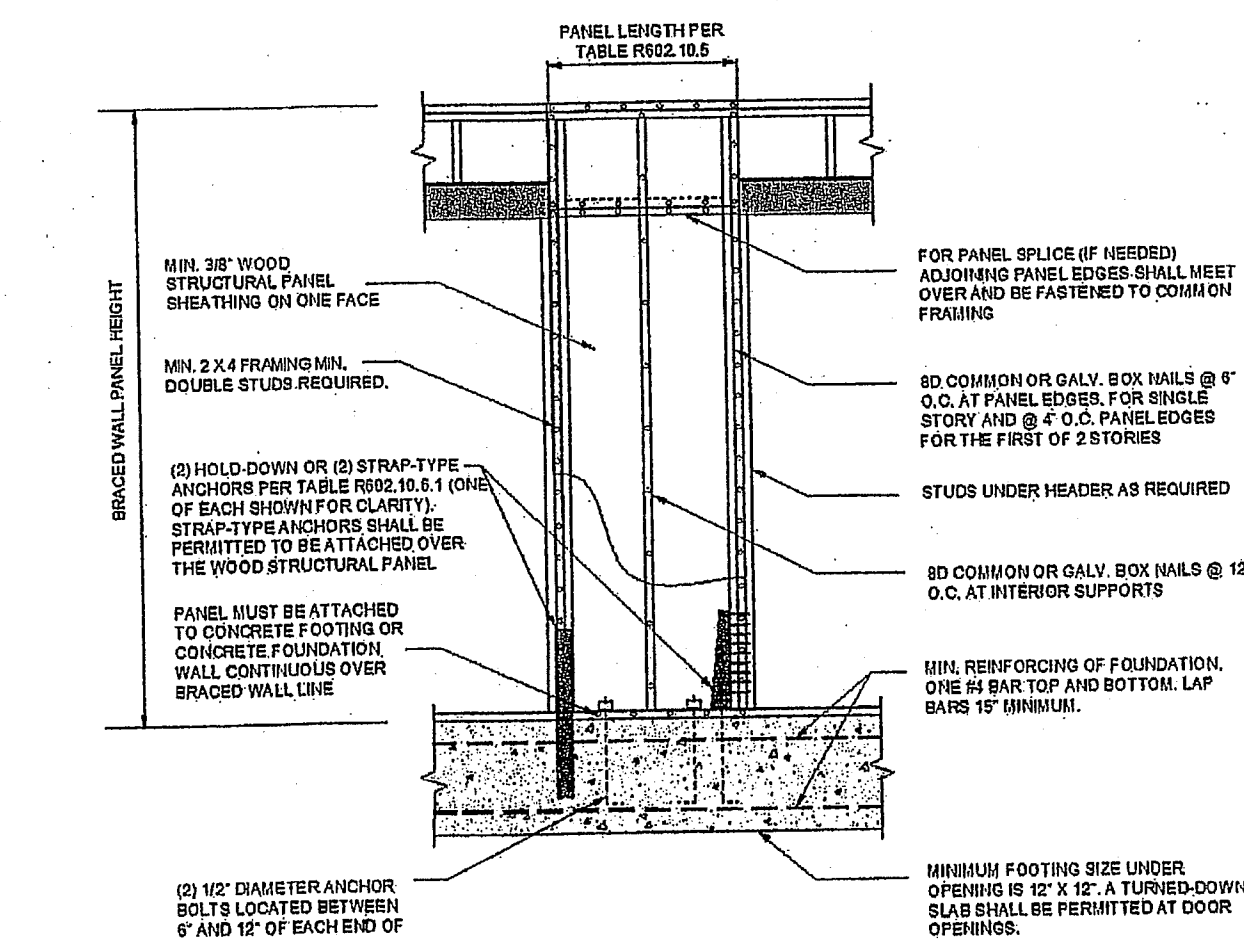
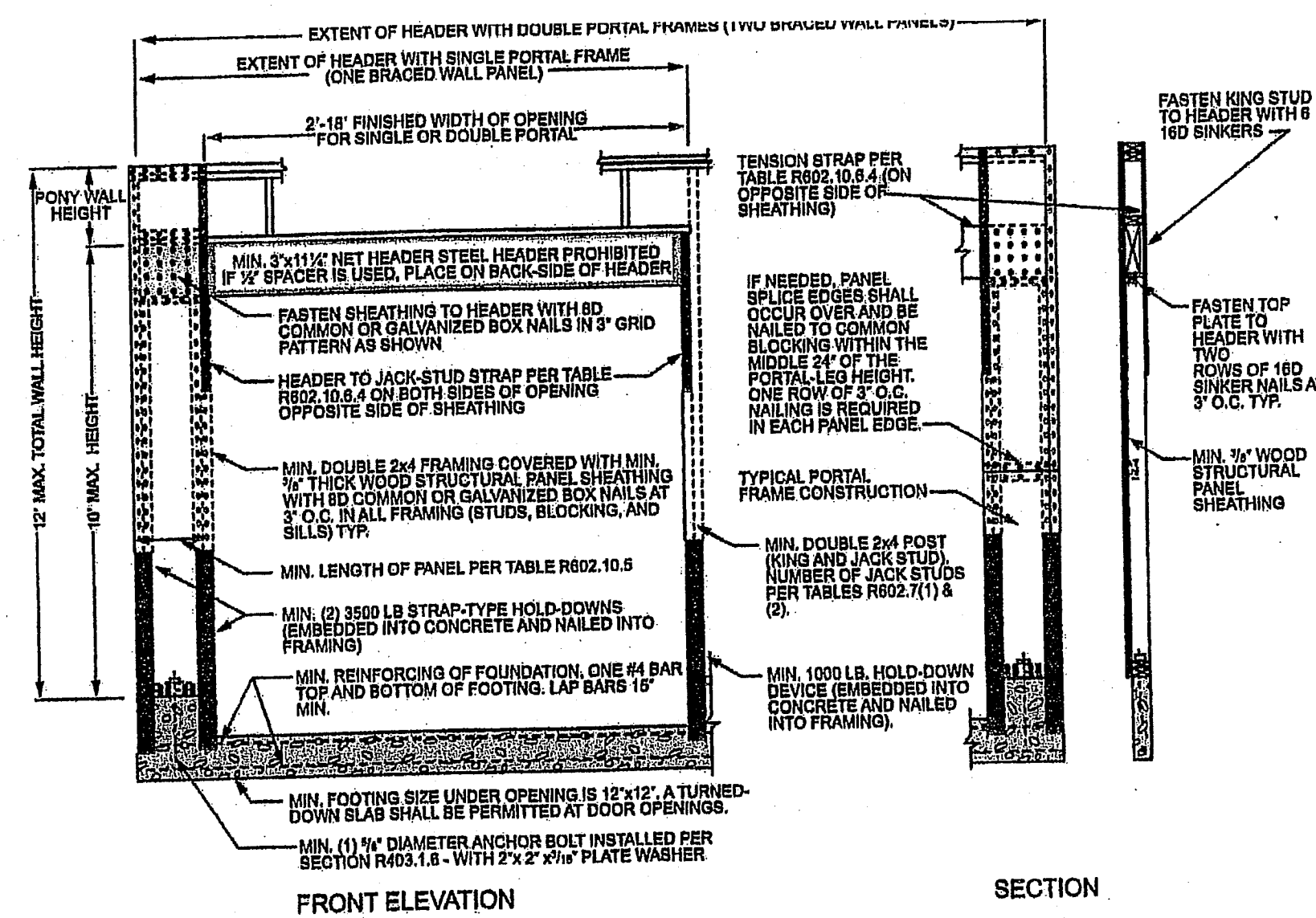


FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL



4 mm, 1 foot = 304.8 mm.

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

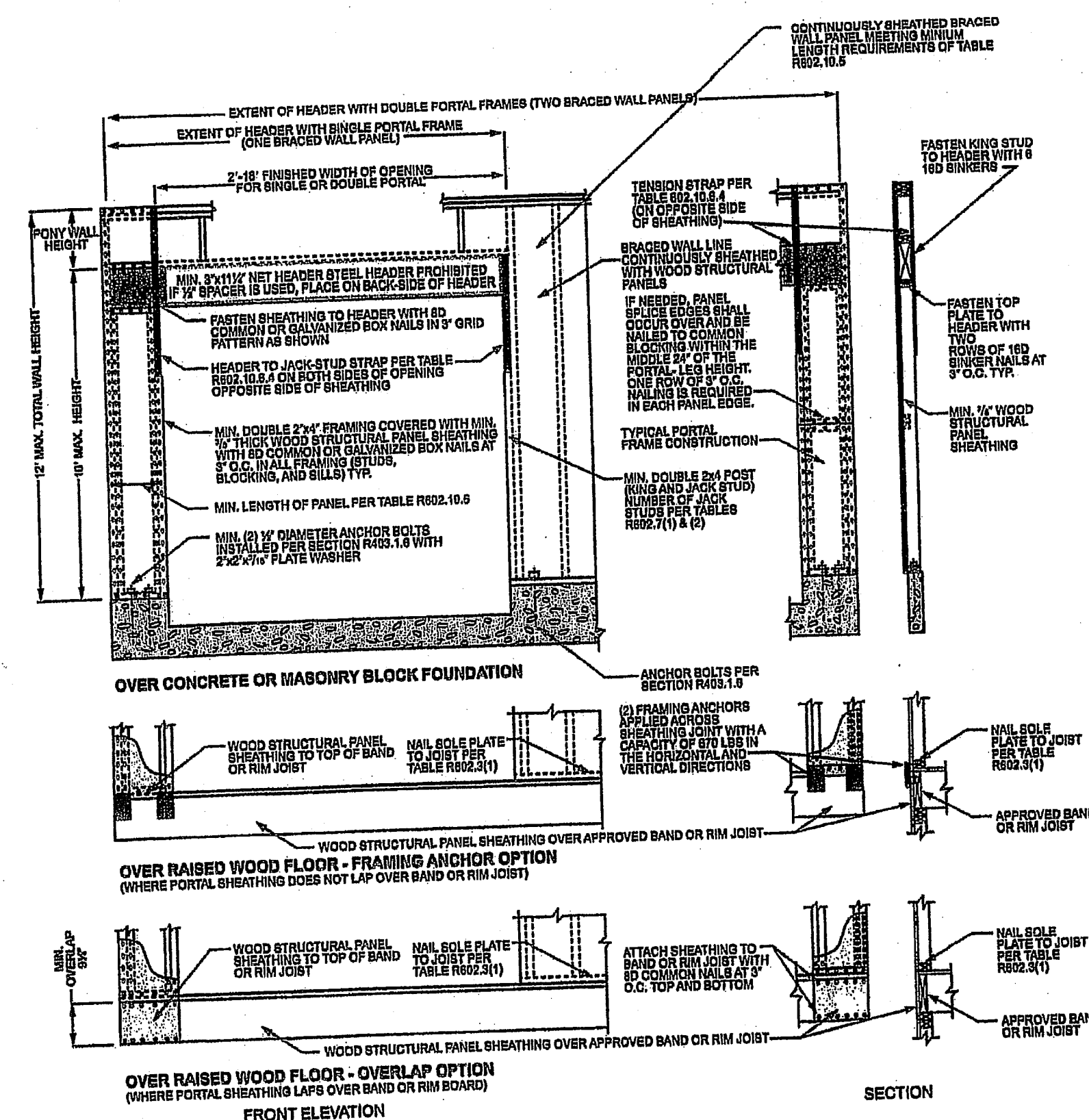
METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA ^a	
Intermittent Bracing Methods	LIB Let-in bracing		Fasteners: Wood: 2-8d common nails or 3-8d (2 1/4\"/>	Spacing: Wood: per stud and top and bottom plates Metal: per manufacturer
	DWB Diagonal wood boards		2-8d (2 1/4\"/>	Per stud
	WSP Wood structural panels (See Section R604)		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6\"/>
	BV-WSP ^b 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(1) for exterior locations Nails or screws per Table R702.3.5 for interior locations	For all braced wall panel locations: 7\"/>
	FBS Particleboard sheathing (See Section R605)		For 1/2\"/>	3\"/>
	FCP 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 ^a (inches)					CONTRIBUTING LENGTH (inches)
	8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, FBS, FCP, 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 _s , D _t and D _s , 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	32	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	—	—	53	48	45
	120	—	—	60	52	48
	124	—	—	—	56	51
	128	—	—	—	61	54
	132	—	—	—	66	58
	136	—	—	—	—	62
	140	—	—	—	—	65
	144	—	—	—	—	72
PORTAL FRAME CONSTRUCTION						
PFH	Supporting roof only	16	16	16	Note c	Note c
	Supporting one story and roof	24	24	24	Note c	Note c
FPG	SDC A, B and C	24	27	30	Note d	Note d
CS-PF	SDC A, B and C	16	18	20	Note e	Note e
	SDC D _s , D _t and D _s	16	18	20	Note e	Note e

For S_f: 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. Minimum 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 FPG 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	
Intermittent Bracing Methods	PFH Portal frame with hold-downs		Fasteners: See Section R602.10.6.2	Spacing: See Section R602.10.6.2
	PFG Portal frame at garage		Fasteners: See Section R602.10.6.3	Spacing: See Section R602.10.6.3
Continuous Sheathing 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 ^b Continuously sheathed wood structural panel adjacent to garage openings		See Method CS-WSP	See Method CS-WSP
	CS-PF Continuously sheathed portal frame		See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB ^c Continuously sheathed structural fiberboard		1 1/2\"/>	3\"/>

For S_f: 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, D_s, D_t, and D_s.
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_s, D_t, and D_s, 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 D_s, D_t, and D_s.
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D_s through D_s, only.



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

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

BUILD IN ACCORDANCE WITH
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LOCAL CODES.

BEHOME LLC
LOT 123 MONTICELLO
4820 JAMESTOWN DR
LEE SUMMIT MO

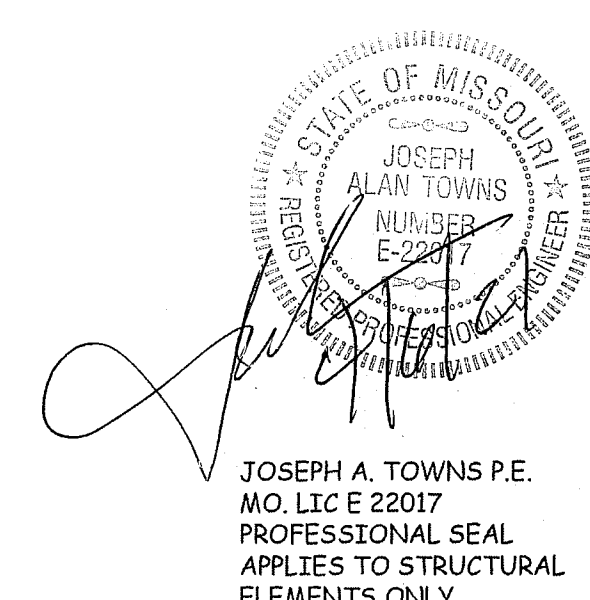
SCALE
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PLAN NO.

3487

SHEET NO.



JOSEPH A. TOWNS P.E.
MO. LIC E 2207
PROFESSIONAL SEAL
APPLIES TO STRUCTURAL
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5 OF 5
4/08/2021