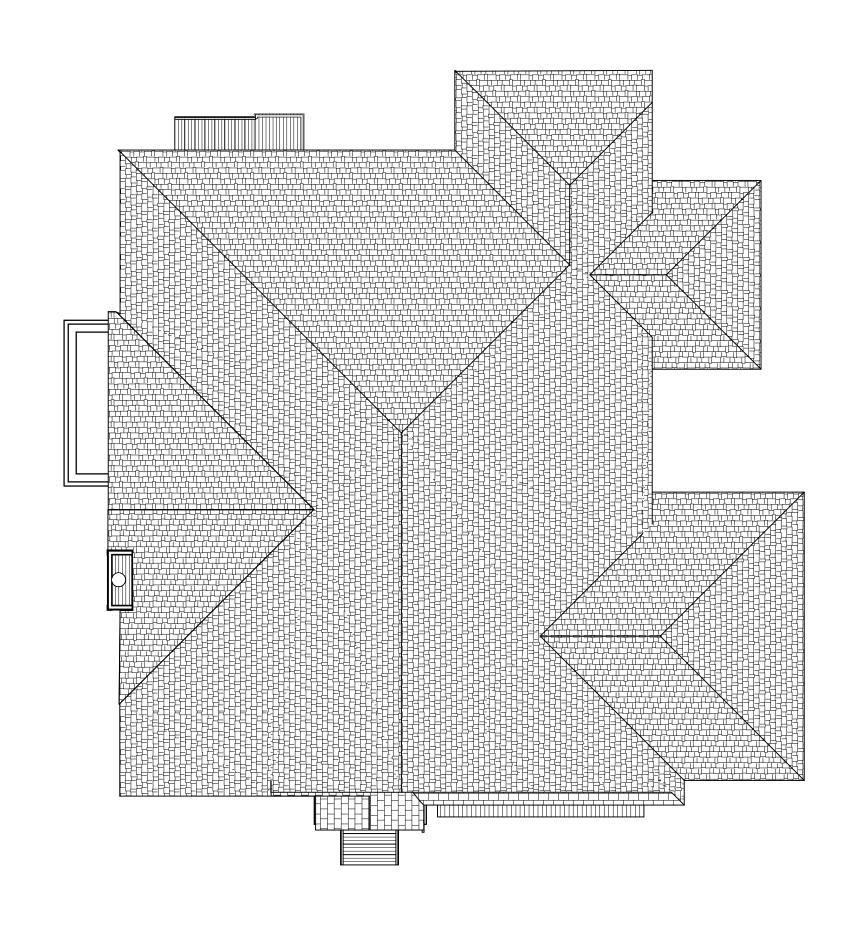
3207

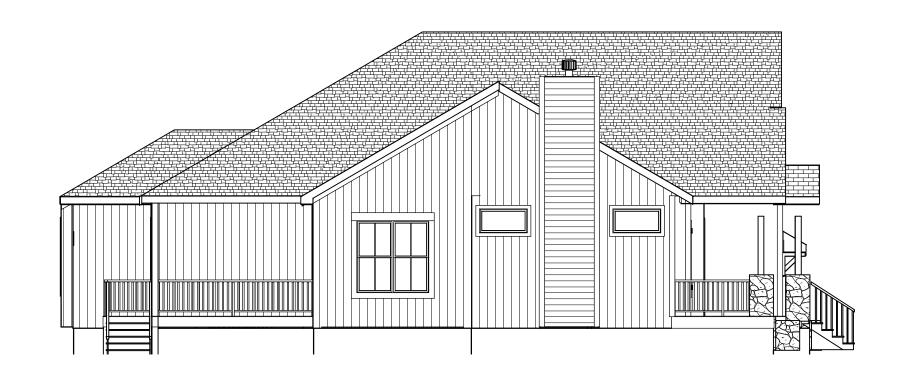
SHEET NO.

1 OF 4



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

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



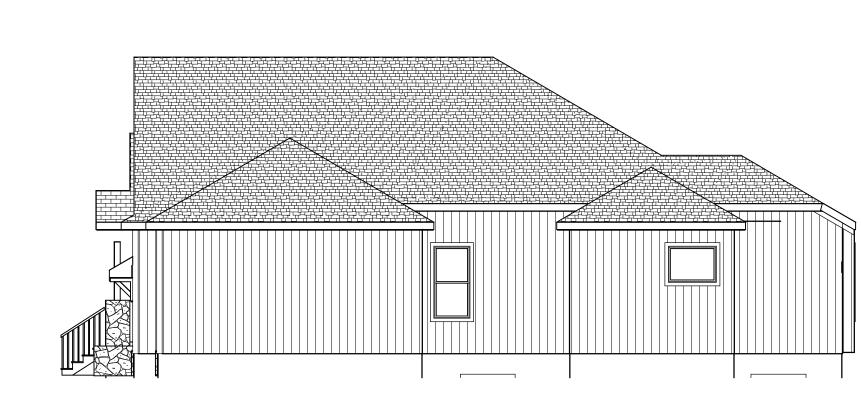
LAP SIDING IF ON CORNER LOT

LEFT EL. 1/8 = 1-0

REAR EL. 1/8 = 1-0



TYPICAL WALL HEIGHTS 10-1

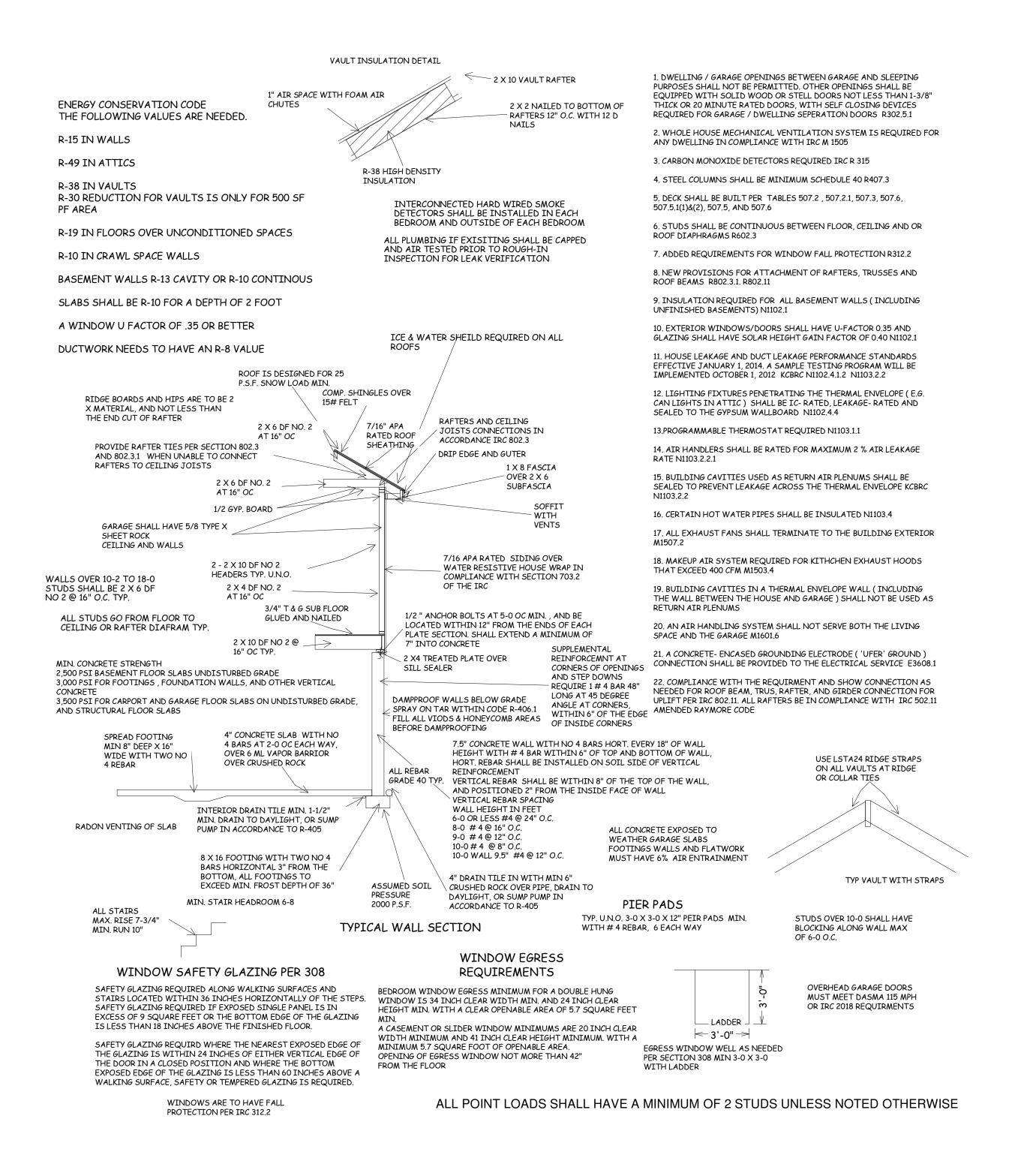


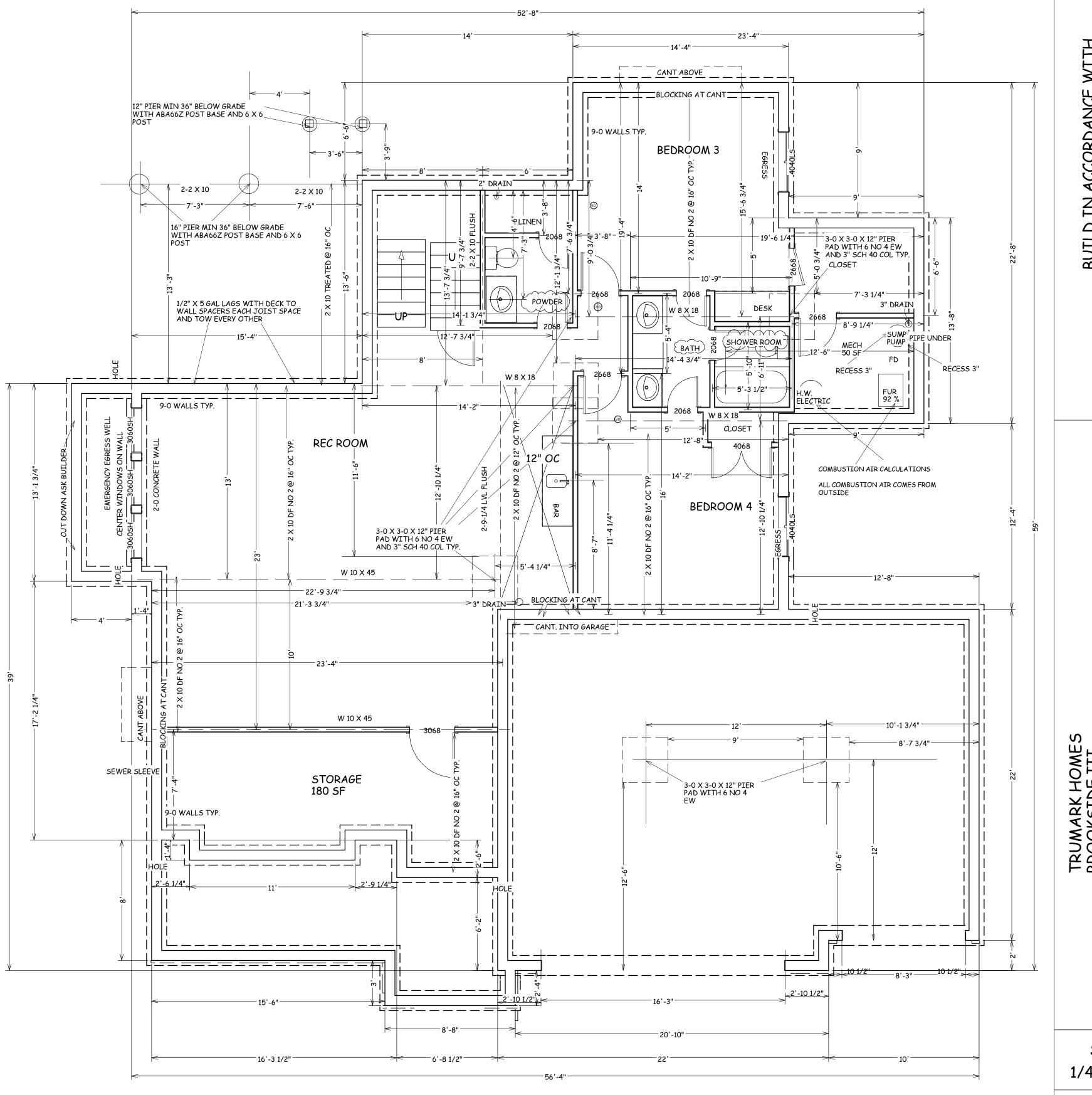
RIGHT EL. 1/8 = 1-0

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

FRONT EL. STUCCO AND STONE







FOUNDATION PLAN 1174 SF FINISHED

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

09/08/2020



BUILD IN ACCORDANCE WI 2018 INTERNATIONAL RESIDENTIAL CODE AND

BROOKSIDE III LOT 93 MONTICELLO 4700 NE SARATOGA

SCALE 1/4" = 1-0

DATE

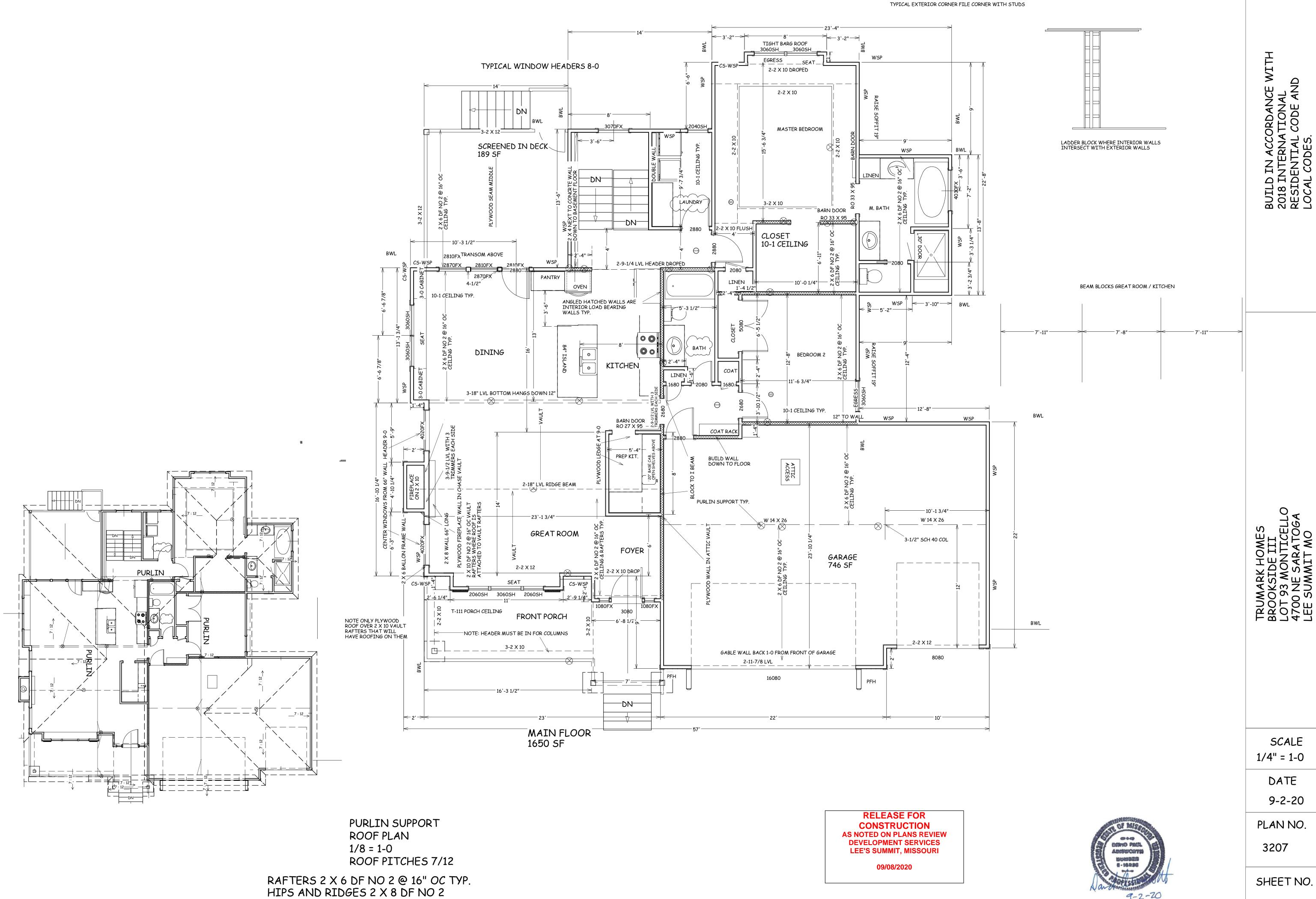
9-2-20

PLAN NO.

3207

SHEET NO.

2 OF 4



SHEET NO.

3 OF 4

SCALE 1/4" = 1-0

> DATE 9-2-20

PLAN NO.

3207

SHEET NO.

4 OF 4

TABLE R602.10.4 BRACING METHODS MINIMUM THICKNESS METHODS, MATERIAL pproved metal straps $3-8d (2^{1}/_{2}" long x 0.113" dia.) nails$ at 45° to 60° angles for Let-in-bracing maximum 16" Metal strap: per manufacturer stud spacing $2-8d (2^{1}/_{2}^{"} long \times 0.113^{"} dia.)$ nails $\frac{3}{4}$ " (1" nominal) for maximum 24" Diagonal $2 - 1^3/4$ long staples stud spacing wood boards Exterior sheathing per Table R602.3(3) Interior sheathing per structural panel Table R602.3(1) or R602.3(2) (See Section R604) Wood structural 8d common $(2^{1}/_{2}" \times 0.131)$ nails panels with stone See Figure R602.10.6.5 or masonry vencer (See Section R602.10.6.5) $^{1}/_{2}$ " long × 0.12" dia. (for $^{1}/_{2}$ " thick SFB sheathing) $1^{3}I_{4}^{"}$ long × 0.12" dia. (for $^{25}I_{32}^{"}$ thick sheathing) Structural maximum 16" fiberboard stud spacing galvanized roofing nails sheathing exterior locations Gypsum board interior locations For 3/8", 6d common $\frac{3}{8}$ " or $\frac{1}{2}$ " for (2" long × 0.113" dia.) nails Particleboard For 1/2", 8d common sheathing $(2^{1}/_{2}^{n} \log \times 0.131^{n} \text{ dia.}) \text{ nails}$ stud spacing (See Section R605) See Section R703.7 fc maximum 16" Portland

> BRACE WALL DETAILS WIND SPEED 115 MPH WIND EXPOSURE A SEISMIC DESIGN CAEGORY A

per manufacturer Per stud 6" edges 12" field Varies by fastener " at panel edges 12" at intermediate supports 4" at braced wall panel end posts 3" edges 6" field Nails or screws per Table R602.3(1) for For all braced wall panel locations: 7" Nails or screws per Table R702.3.5 for and bottom plates) 7 3" edges 6" field ⁷/₈" long, 16 gage staples cement plaster stud spacing 0.092" dia., 0.225" dia. head nails with 4" edges 8" field $\frac{7}{16}$ " for maximum 16 length to accommodate 11/2" Hardboard penetration into studs stud spacing panel siding See Section R602.10.6.1 Section R602.10.6.1 Alternate braced wall

		NGTH OF BRACED WALL PANELS MINIMUM LENGTH* (Inches)					CONTRIBUTING LENGTH
METHOD (See Table R602.10.4)		Wali Height					(inches)
		8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP		48	48	48	53	58	Actual
GB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual
LIB		55	62	69	NP	NP	Actual ⁶
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48
	SDC D ₀ , D ₁ and D ₂ , 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)						
	≤ 64	24	27	30	33	36	
	68	26	27	30	33	36	
	72	27	27	30	33	36	Actual ^b
	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	-	<u> </u>			66	_
	144					72	
	METHOD		.,	rtai header	neight 11 feet	12 feet	-
(See Table R602.10.4)		8 feet	9 feet 16	10 feet	Note c	Note c	
PFH	Supporting roof only	16	24	24	Note c	Note c	48
	Supporting one story and room	24	27	30	Note d	Note d	
	PFG PFG A P and C	16	18	20	Note e	Note e	
CS-PF	SDC A, B and C	16	18	20	Note e	Note e	
	$\overline{SDC D_0}$, D_1 and D_2 I foot = 304.8 mm, 1 mile per hour =	1	10		1 110100	1 .,,,,,,	

d. Maximum header height for PFG 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.

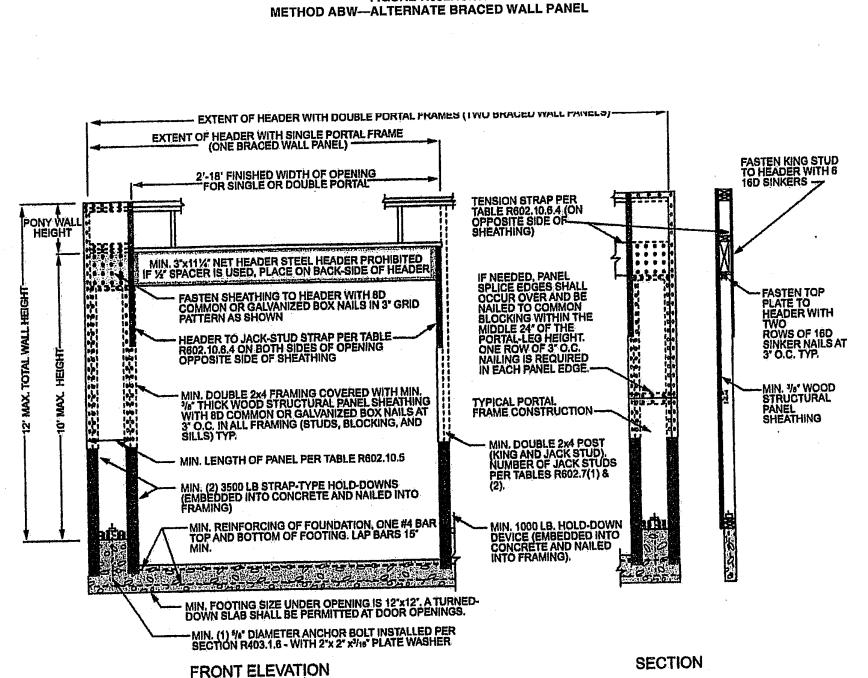


FIGURE R602.10.6.1

Table R602.10.3(1) Bracing requirements based on Wind Speed

12.5

15.0

18.0

12.5

18.0

23.5

29.0

34.5

PANEL LENGTH PER

8 8 8

50

MIN. 3/8" WOOD STRUCTURAL PANEL SHEATHING ON ONE FACE

MIN. 2 X 4 FRAMING MIN. DOUBLE STUDS REQUIRED.

PANEL MUST BE ATTACHED TO CONCRETE FOOTING OR CONCRETE FOUNDATION -WALL CONTINUOUS OVER

BOLTS LOCATED BETWEEN 6" AND 12" OF EACH END OF

25.4 mm.

BRACED WALL LINE

(2) HOLD DOWN OR (2) STRAP-TYPE —
ANCHORS PER TABLE R602.10.6.1 (ONE)
OF EACH SHOWN FOR CLARITY).
STRAP-TYPE ANCHORS SHALL BE
PERMITTED TO BE ATTACHED OVER
THE WOOD STRUCTURAL PANEL

MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE'

9.0

10.5

13.5

16.5

20.0

15.5

20.0

24.5

29.0

FOR PANEL SPLICE (IF NEEDED)
ADJOINING PANEL EDGES SHALL MEET
OVER AND BE FASTENED TO COMMON

8D COMMON OR GALV. BOX NAILS @ 6" O.C. AT PANEL EDGES. FOR SINGLE STORY AND @ 4" O.C. PANEL EDGES FOR THE FIRST OF 2 STORIES

STUDS UNDER HEADER AS REQUIRED

8D COMMON OR GALV. BOX NAILS @ 12"

O.C. AT INTERIOR SUPPORTS

MINI REINFORCING OF FOUNDATION ONE #4 BAR TOP AND BOTTOM. LAP

MINIMUM FOOTING SIZE UNDER

SLAB SHALL BE PERMITTED AT DOOR

4.5

7.5

9.0

11.5

14.0

17.0

13.0

17.0

21.0

25.0

Method GB

9.5

12.5

15.0

18.0

12.5

18.0

23.5

29.0

34.5

27.0

35.0

43.0

EXPOSURE CATEGORY B 30-FOOT MEAN ROOF HEIGHT 10-FOOT WALL HEIGHT 2 BRACED WALL LINES

≤ 115

4 mm, 1 foot = 304.8 mm.

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



CONNECTION CRITERIA" Wood: per stud and and bottom plates 2" long, 11 gage, 7/16" dia. head nails 6" o.c. on all framing TABLE R602.10.4—continued BRACING METHODS

METHODS, MATERIAL

Portal frame with

hold-downs

Portal frame at garage

Continuously sheather

wood structural panel

Continuously sheathed

wood structural panel

adjacent to garage

openings

CS-PF

portal frame

CS-SFB^d

stud spacing

EXTENT OF HEADER WITH SINGLE PORTAL FRAME (ONE BRACED WALL PANEL)

2'-18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL

MIN. 3'X1111' NET HEADER STEEL HEADER PROHIBITED IF X' SPACER IS USED, PLACE ON BACK-SIDE OF HEADE

OVER CONCRETE OR MASONRY BLOCK FOUNDATION

OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHERE PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)

OVER RAISED WOOD FLOOR - OVERLAP OPTION (WHERE PORTAL SHEATHING LAPS OVER BAND OR RIM BOARD)

FRONT ELEVATION

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

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

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

d. Method CS-SFB does not apply in Seismic Design Categories D_0 , D_1 and D_2 .

e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D_0 through D_2 only.

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, Do, D, and D2.

--- EXTENT OF HEADER WITH DOUBLE FORTAL FRAMES (TWO BRACED WALL PANE

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 D₀, D₁ and D₂ 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-SEP data not part and the Seismic Design Categories D. D. 204 D.

CONNECTION CRITERIA

See Section R602.10.6.2

See Section R602.10.6.3

Exterior sheathing per Table R602.3(3)

Interior sheathing per Table R602.3(1) or R602.3(2)

See Method CS-WSP

See Section R602.10.6.4

(for 1/2" thick sheathing) $1^3/4$ " long × 0.12" dia.

(for 25/32" thick sheathing)

Specing

See Section R602.10.6.2

See Section R602.10.6.3

6" edges 12" field

Varies by fastener

See Method CS-WSP

See Section R602.10.6.4

3" edges 6" field

SECTION