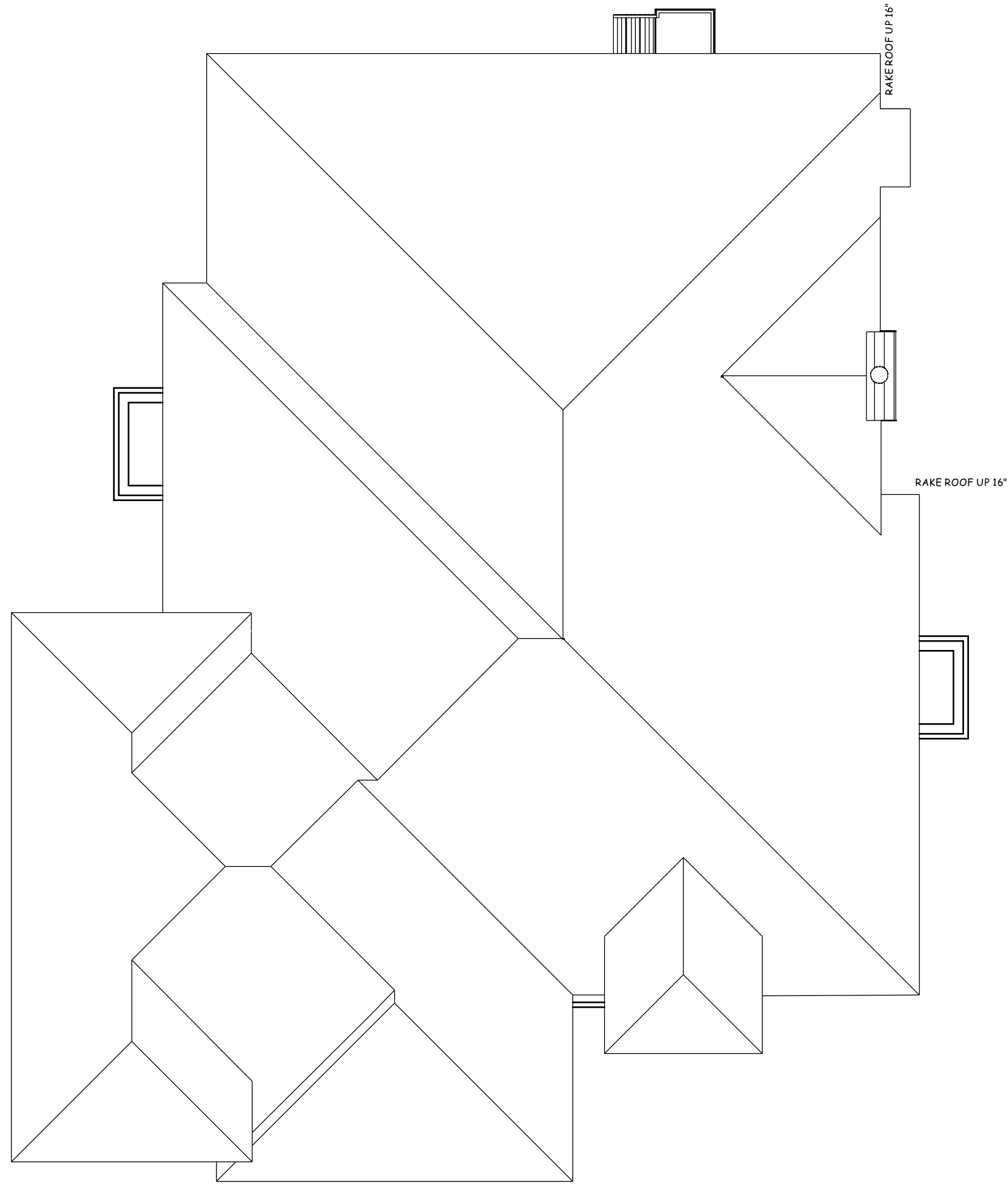
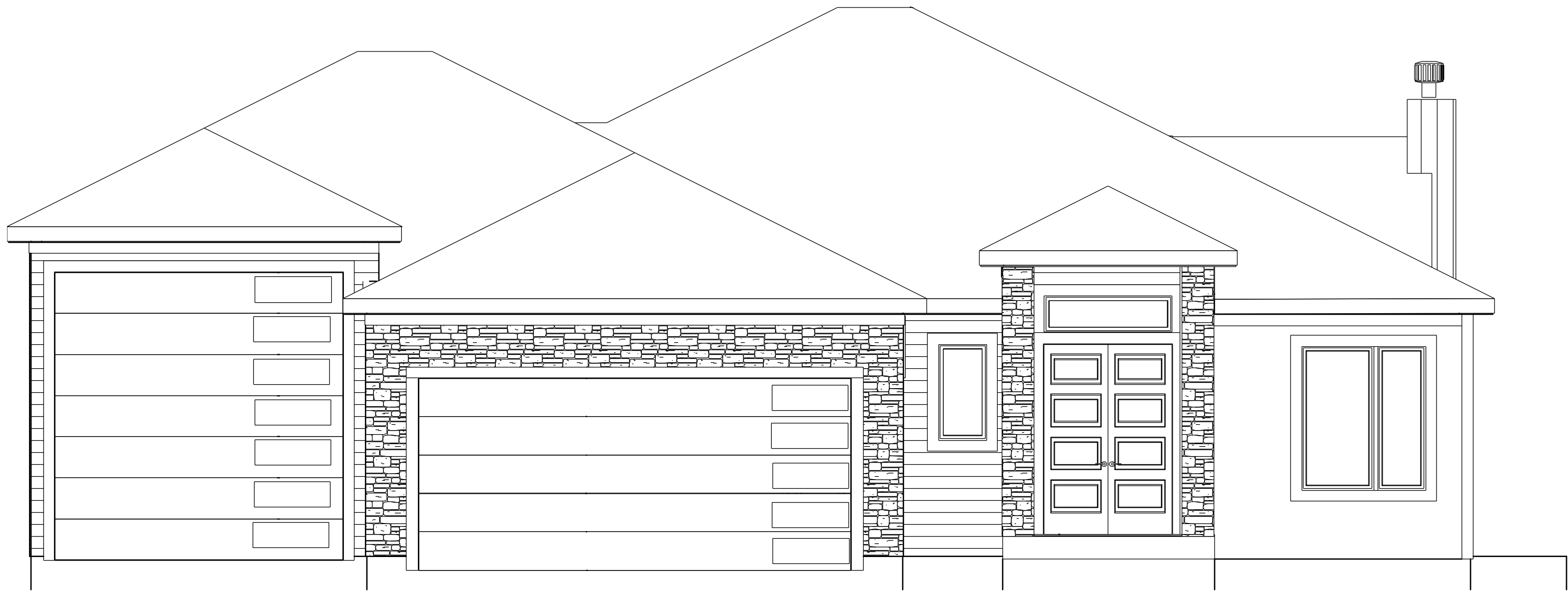




ROOF PLAN
1/8" = 1'-0"
ROOF PITCHES 6/12
RAFTERS 2 X 6 DF NO 2 @ 16" OC
HIPS AND RIDGES 2 X 8 DF NO 2



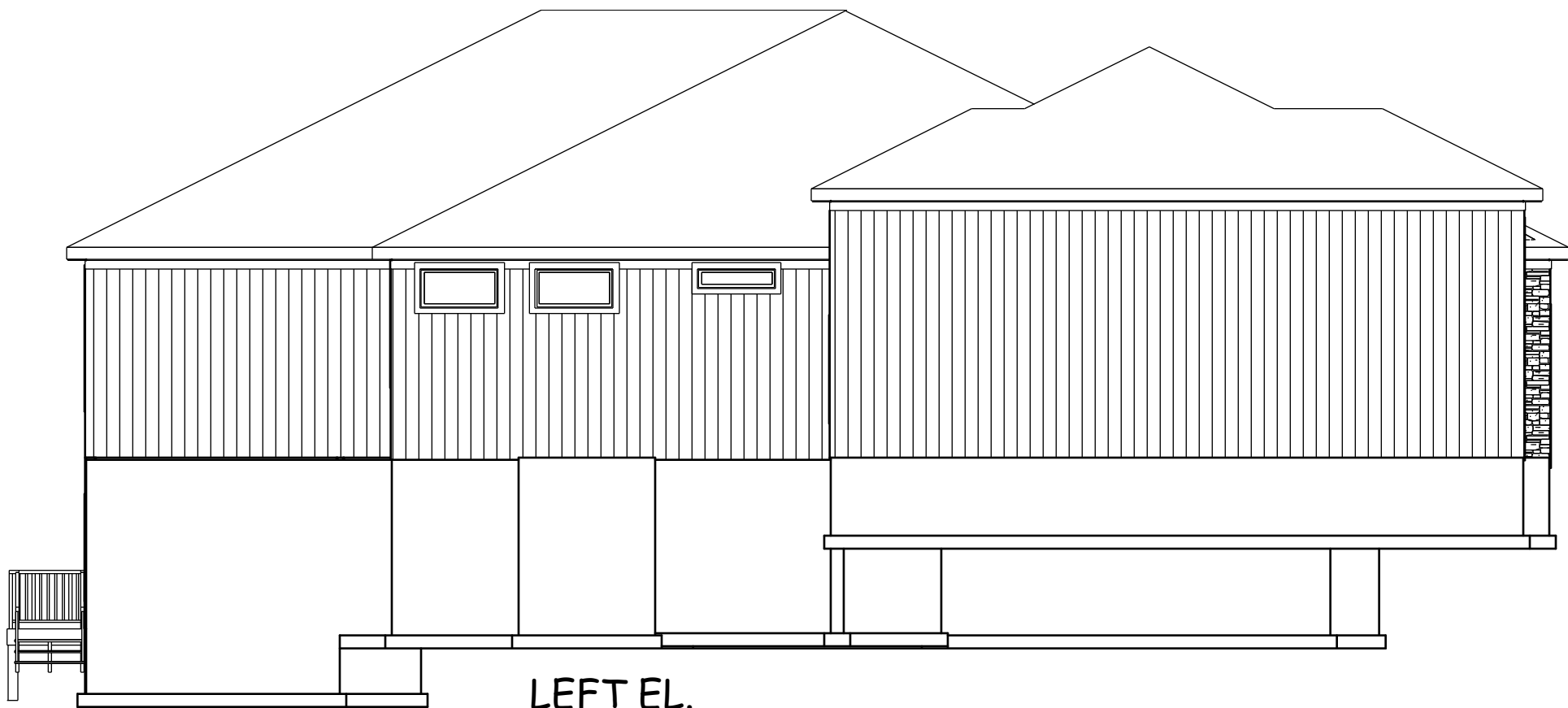
NOTE: RETURN STONE 16" ON CORNERS

FRONT EL.
STUCCO, LAP, AND STONE

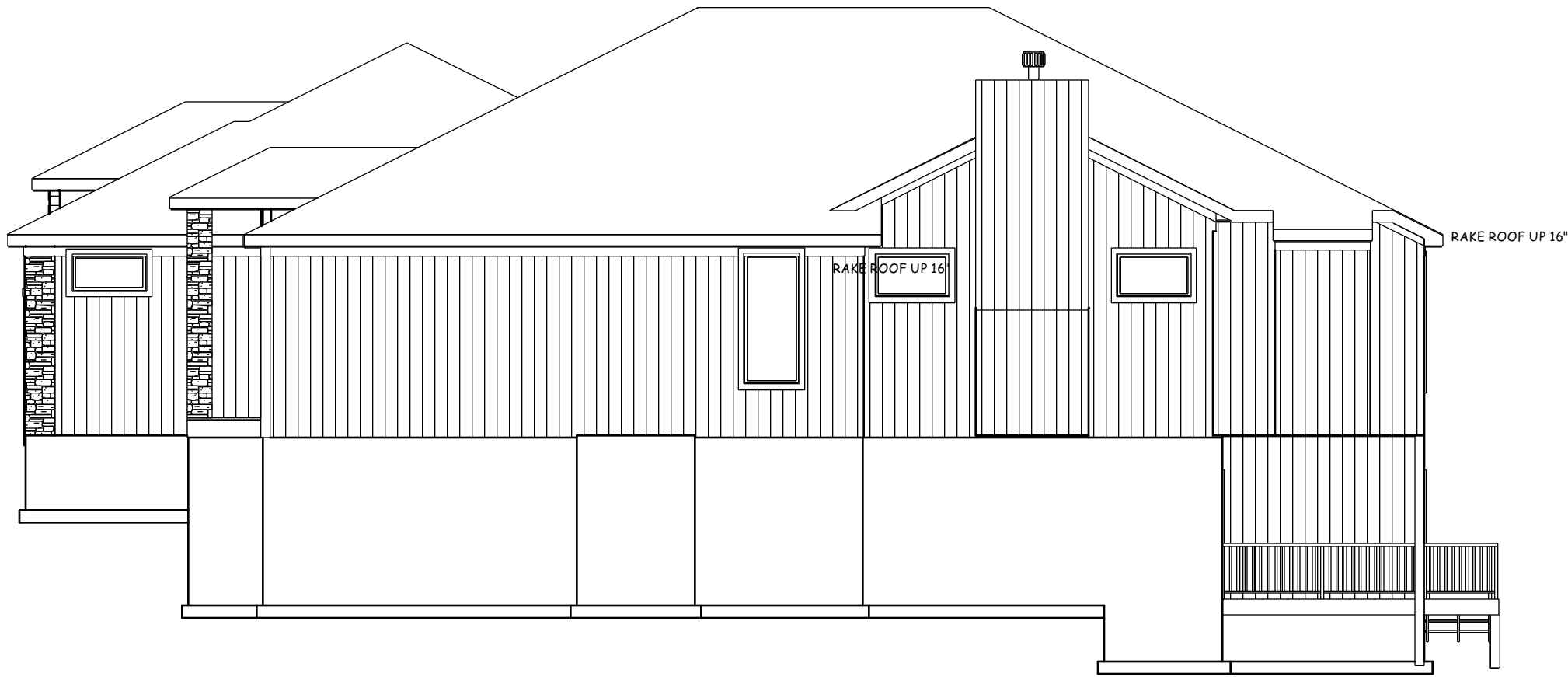


REAR EL.
1/8 = 1'-0

3 SIDES LP PANEL
SIDING



LEFT EL.
1/8 = 1'-0

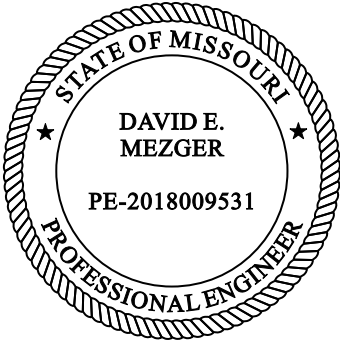


RIGHT EL.
1/8 = 1'-0

TYPICAL WALL HEIGHTS 10-1

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Kansas City, MO 64116



RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/28/2024

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

TRUMARK CUSTOM HOMES
KYLE V
LOT 150 WOODSIDE RIDGE
2082 NW O'BRIEN RD
LEE SUMMIT MO

SCALE
1/4" = 1'-0

DATE
10-22-24

PLAN NO.
4305

SHEET NO.
1 OF 5

TRUMARK CUSTOM HOMES
KYLE V
LOT 150 WOODSIDE RIDGE
2082 NW O'BRIEN RD
LEE SUMMIT MO

2 OF 5

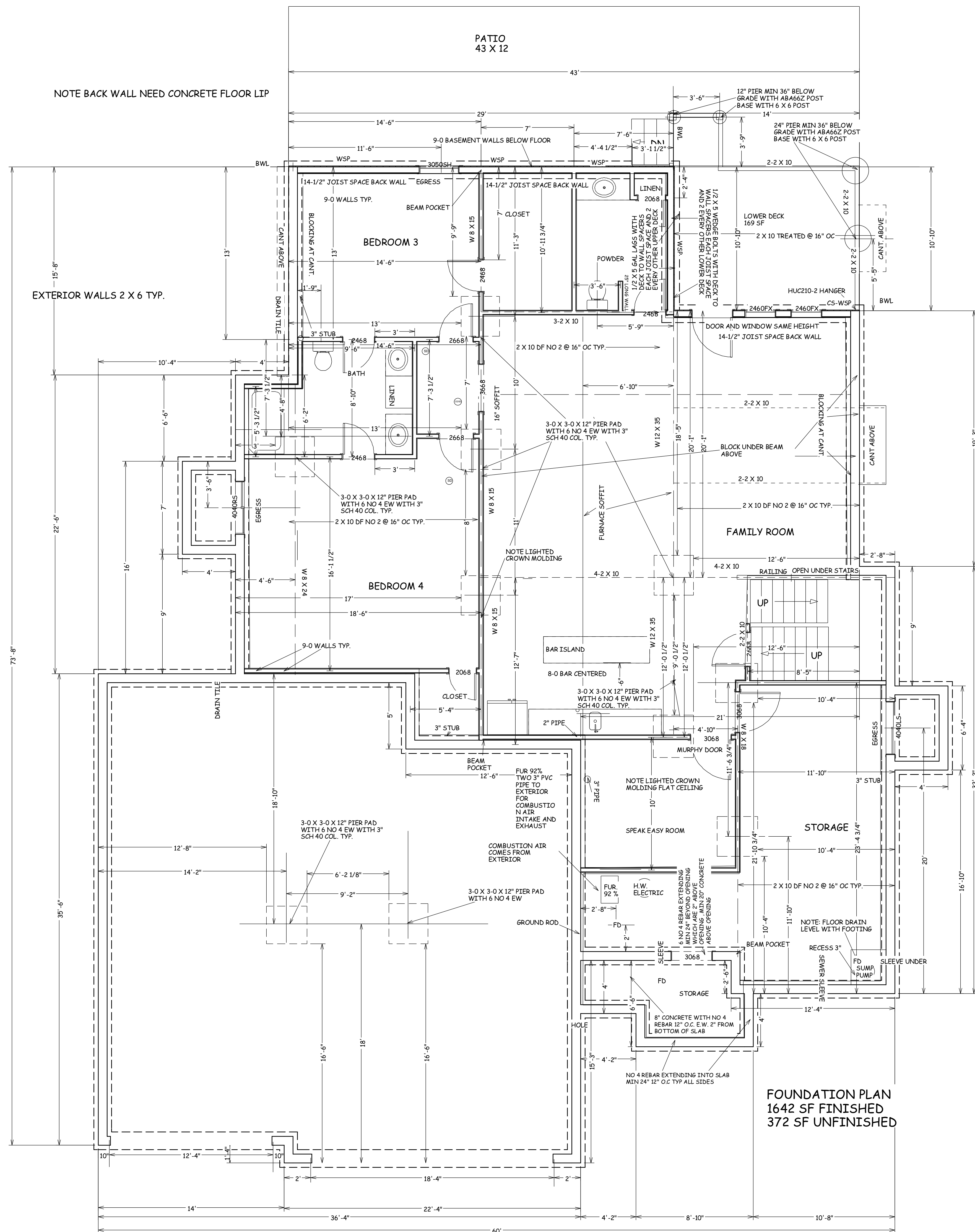
10/28/2024

STATE OF MISSOURI

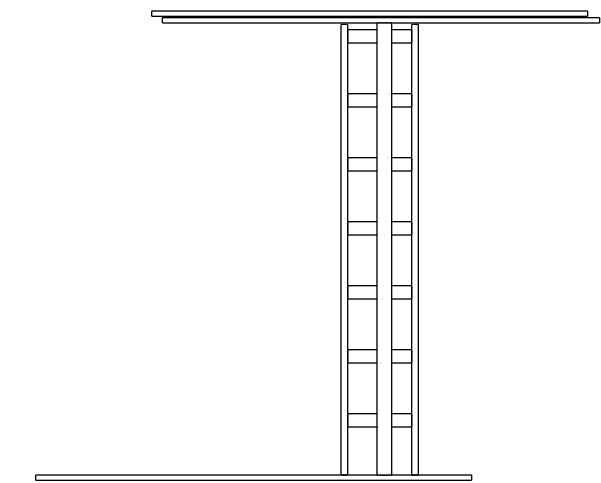
DAVID E. MEZGER

PE-2018009531

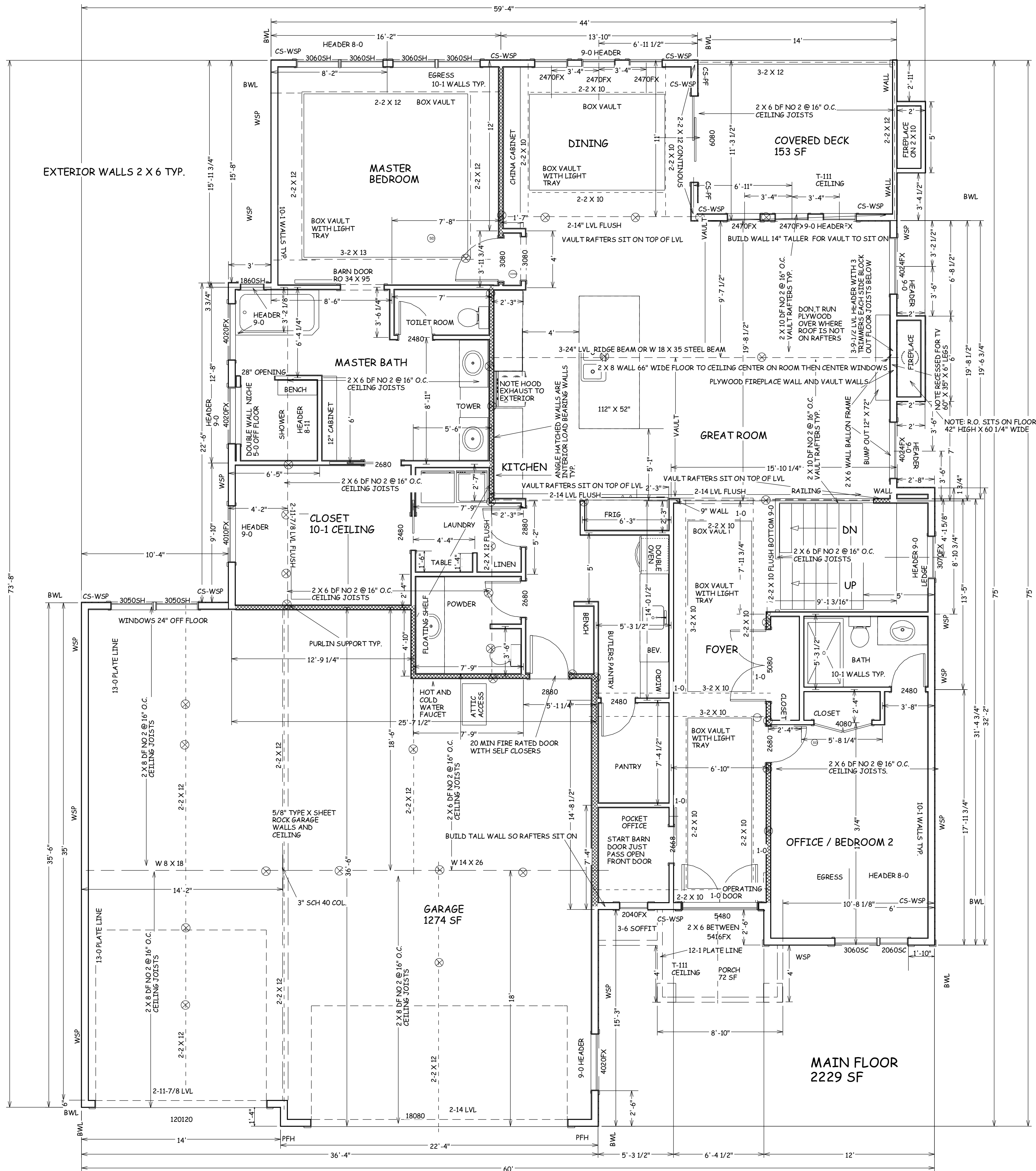
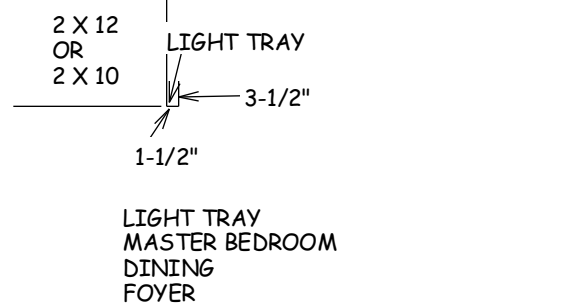
PROFESSIONAL ENGINEER



TYPICAL EXTERIOR CORNER FILE CORNER WITH STUDS



LADDER BLOCK WHERE INTERIOR WALLS INTERSECT WITH EXTERIOR WALLS



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TRUMARK CUSTOM HOMES
KYLE V
LOT 150 WOODSIDE RIDGE
2082 NW O'BRIEN RD
LEE SUMMIT MO

SCALE
1/4" = 1-0

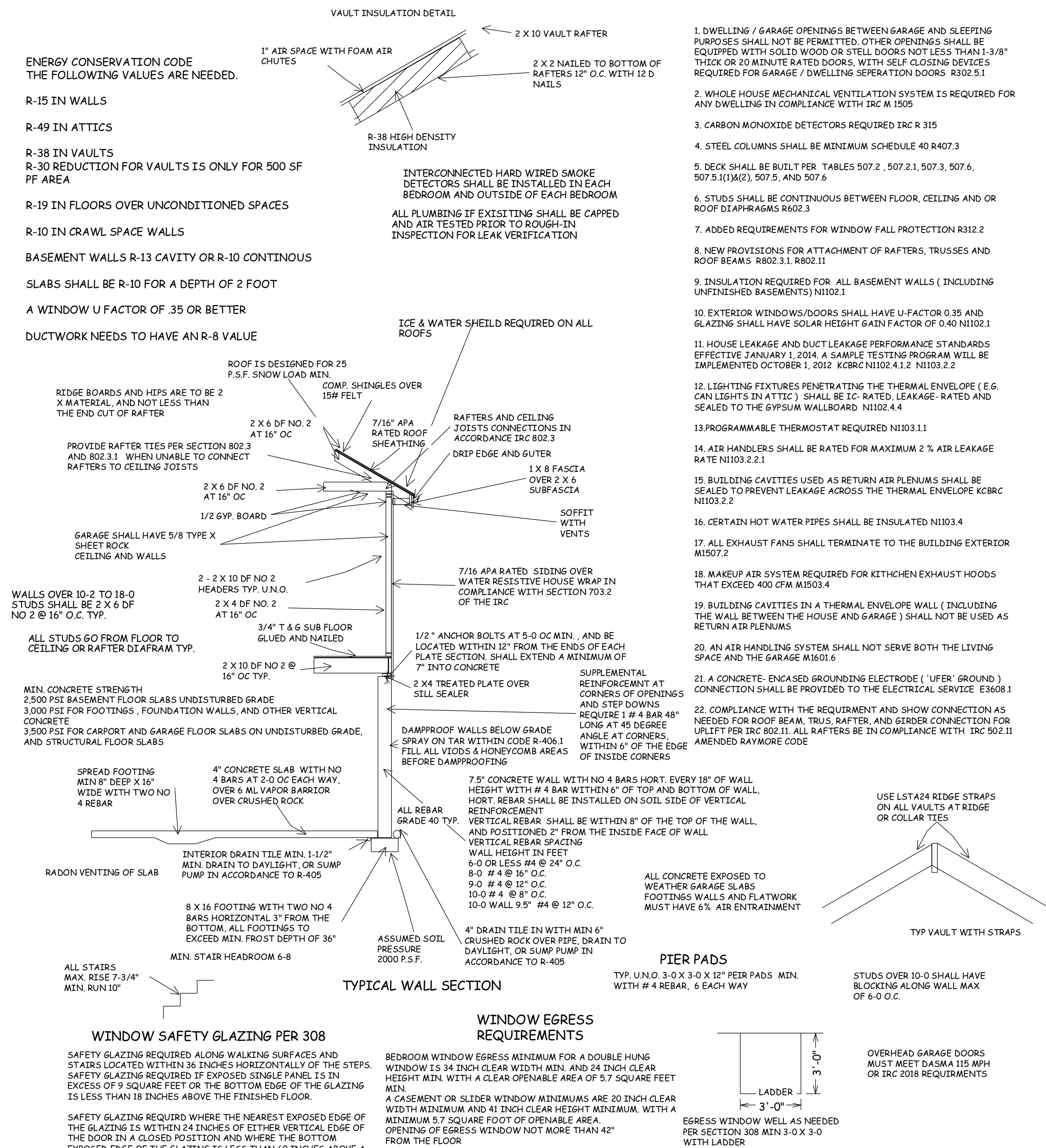
DATE
10-22-24

PLAN NO.
4305

SHEET NO.
3 OF 5

PURLIN PLAN
ROOF PITCHES 6/12
RAFTERS 2 X 6 DF NO 2 @ 16" OC
HIPS AND RIDGES 2 X 8 DF NO 2

RAFTER MAX. SPANS BETWEEN SUPPORTS 14'-4"

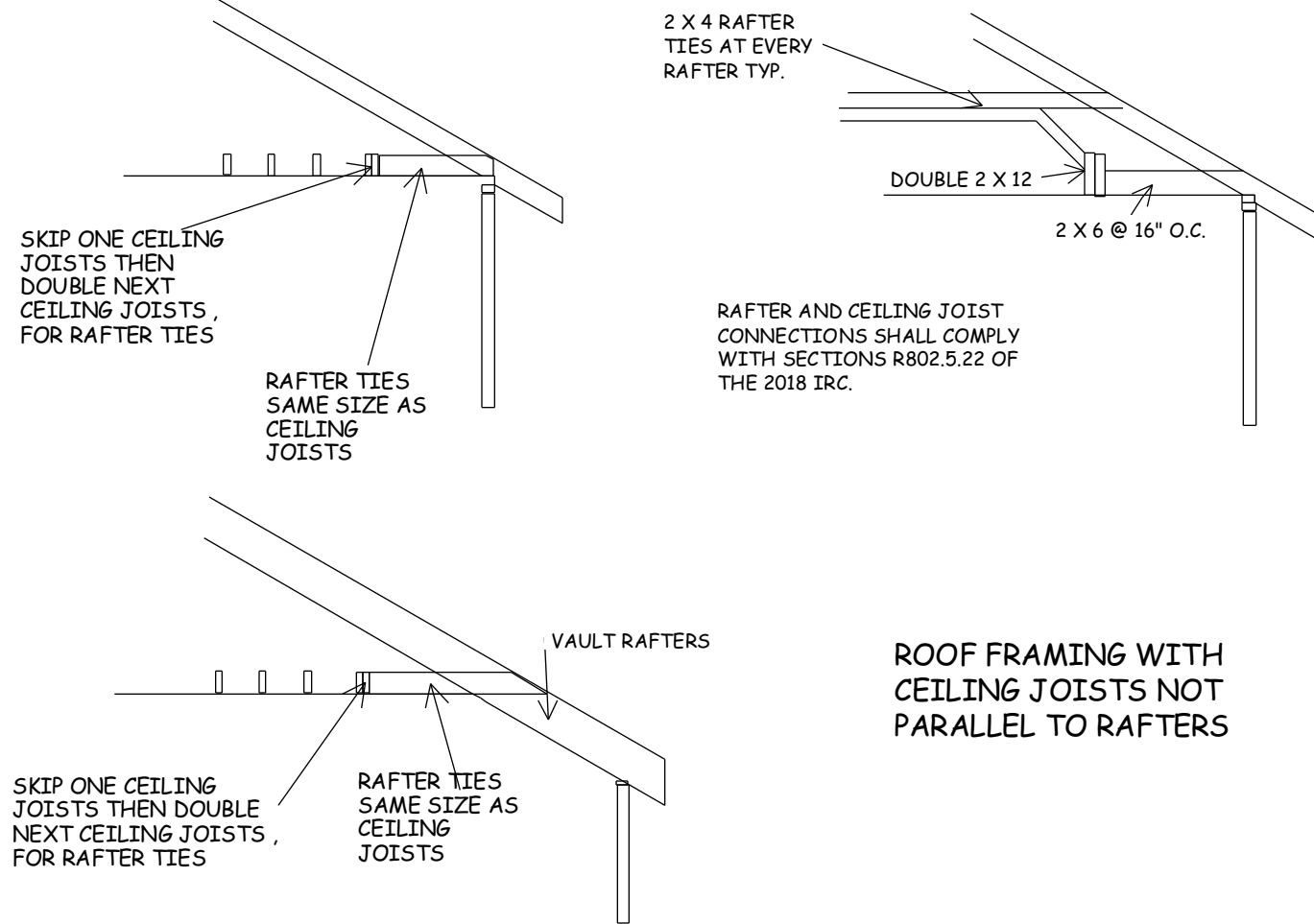


ALL POINT LOADS SHALL HAVE A MINIMUM OF 2 STUDS UNLESS NOTED OTHERWISE

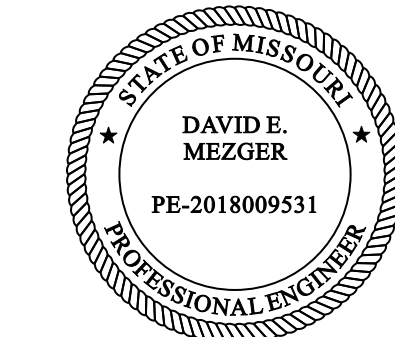
PURLIN LEG O.C. SUPPORT
2 X 6 DF NO 2 4'-0"
2 X 8 DF NO 2 5'-4"
2 X 10 DF NO 2 8'-0"
2 X 12 DF NO 2 9'-6"

SUPPORT LEG FOR PURLINS
2 X 4 8'-0"
2 X 4 W 2 X 4 T - BRACE 9'-7"
2 X 6 W 2 X 6 T - BRACE 17'-2"
2 X 8 W 2 X 6 T - BRACE 17'-4"

NOTE: LOCATE RAFTER TIES
AS NEAR AS PRACTICAL TO
THE TOP OF CEILING JOISTS



RAFTER TIES



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TRUMARK CUSTOM HOMES
KYLE V
LOT 150 WOODSIDE RIDGE
2082 NW O'BRIEN RD
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
10-22-24

PLAN NO.

4305

SHEET NO.

4 OF 5

RELEASE FOR CONSTRUCTION
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BRACED WALL PANEL HEIGHT
 MIN. 3/8" WOOD STRUCTURAL PANEL SHEATHING ON ONE FACE
 MIN. 2 X 4 FRAMING MIN. DOUBLE STUDS REQUIRED.
 (2) HOLD-DOWN OR (2) STRAP-TYPE ANCHORS PER TABLE R602.5.1 (ONE OF EACH SHOWN FOR CLARITY). STRAP-TYPE ANCHORS SHALL BE PERMITTED TO BE ATTACHED OVER THE WOOD STRUCTURAL PANEL.
 PANEL MUST BE ATTACHED TO CONCRETE FOOTING OR CONCRETE FOUNDATION WALL CONTINUOUS OVER BRACED WALL LINE
 (2) 1/2" DIAMETER ANCHOR BOLTS LOCATED BETWEEN 6" AND 12" OF EACH END OF
 TABLE R602.5.1
 FOR PANEL SPACING (IF REQUIRED) ADJOINING PANEL EDGES SHALL MEET OVER AND BE FASTENED TO COMMON FRAMING
 6D 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
 6D COMMON OR GALV. BOX NAILS @ 12" O.C. AT INTERIOR SUPPORTS
 MIN. REINFORCING OF FOUNDATION, ONE #4 BAR TOP AND BOTTOM; LAP BARS 12" MINIMUM.
 MINIMUM FOOTING SIZE UNDER OPENING IS 12" X 12". A TURNED-DOWN SLAB SHALL BE PERMITTED AT DOOR OPENINGS.

FRONT ELEVATION

SECTION

EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (1 1/4" SPACER/ 1/4" PLATE WASH.)

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

2'-16" FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL

MIN. 2x11/4" NET HEADER STEEL. HEADER PROHIBITED IF 1/4" SPACER IS USED. PLACE ON BACK-SIDE OF HEADER.

PATTERN SHEATHING TO HEADER WITH #8 COMMON OR GALVANIZED BOX NAILS IN 3" GRID PATTERN AS SHOWN

HEADER TO JACK-STUD STRAP PER TABLE R802.18 & A ON BOTH SIDERS OF OPENING OPPOSITE SIDE OF SHEATHING

MIN. DOUBLE 2x4 FRAMING COVERED WITH MIN. 1/2" THICK WOOD STRUCTURAL PANEL SHEATHING WITH #8 COMMON OR GALVANIZED BOX NAILS AT 2' O.C. WALL FRAMING (STUDS, BLOCKING, AND SILL) TYP.

MIN. LENGTH OF PANEL PER TABLE R802.10.5

MIN. (2) 3500 LB STRAP-TYPE HOLD-DOWNS (EMBEDDED INTO CONCRETE AND NAILED INTO FRAMING)

MIN. REINFORCING OF FOUNDATION, ONE #4 BAR TOP AND BOTTOM OF FOOTING. LAP BARS 15" MIN.

MIN. FOOTING SIZE UNDER OPENING IS 12" X 12". A TURNED-UNDER SLAB SHALL BE PERMITTED AT DOOR OPENINGS.

MIN. (1) 1/4" DIAMETER ANCHOR BOLT INSTALLED PER SECTION R403.1.8 - WITH 2' X 2" 2x16" PLATE WASHER

TENSION STRAP PER TABLE R802.10.6 FOR OPPOSITE SIDE OF SHEATHING

IF NEEDED, PANEL SPLICE EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING WITHIN THE MIDDLE 24" OF THE PORTAL LEG HEIGHT. ONE ROW OF 3 O.C. NAILING IS REQUIRED IN EACH PANEL EDGE.

TYPICAL PORTAL FRAME CONSTRUCTION

MIN. DOUBLE 2x4 POST (KING AND JACK STUD). NUMBER OF JACK STUDS PER TABLE R802/11 & (2).

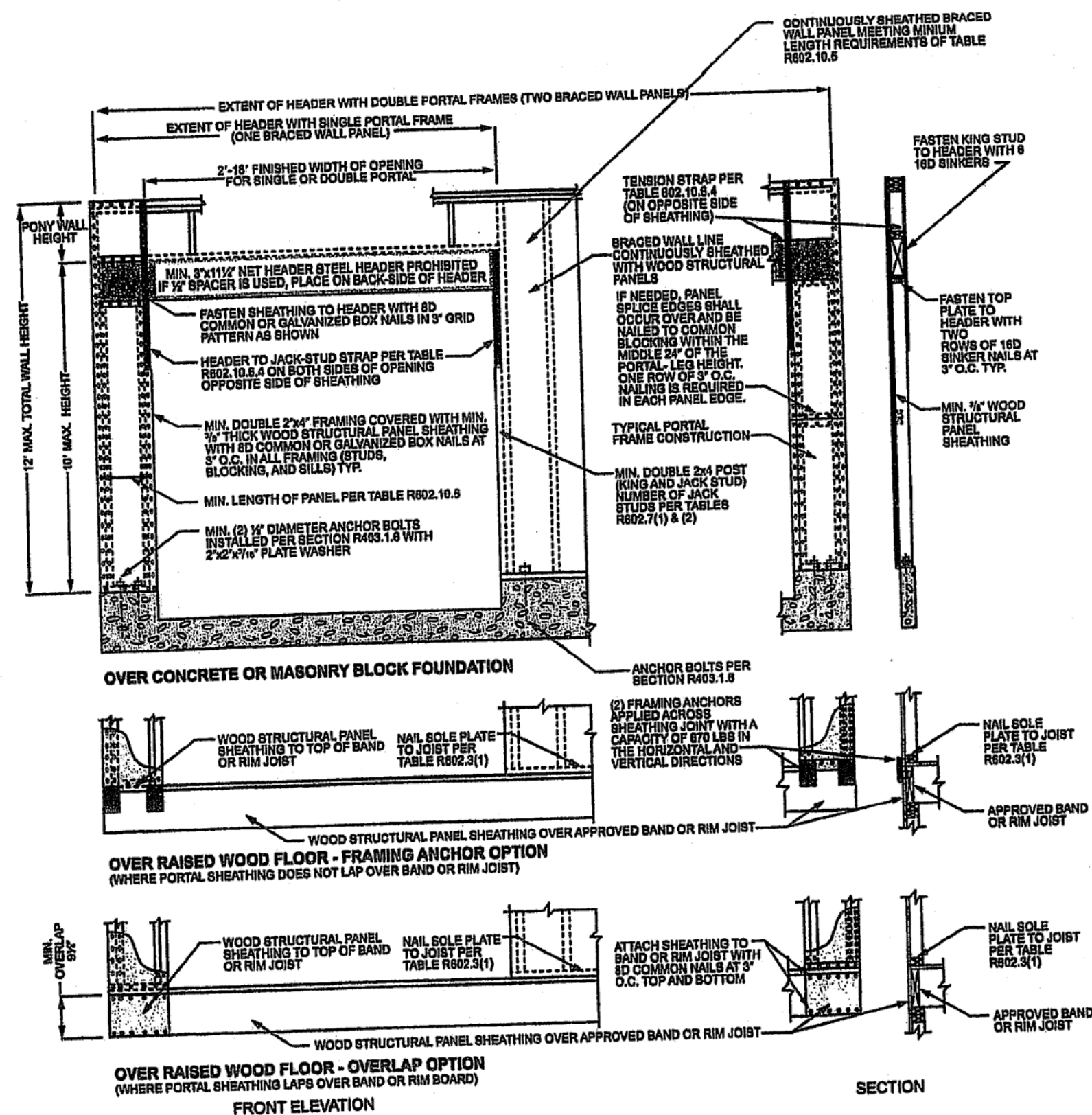
MIN. 1000 LB. HOLD-DOWN DEVICE EMBEDDED INTO CONCRETE AND NAILED INTO FRAMING.

FASTEN TO ROOF

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

METHOD (See Table BR602.10.4)		MINIMUM LENGTH* (Inches)					CONTRIBUTING LENGTH (Inches)
		Wall Height					
		8 feet	9 feet	10 feet	11 feet	12 feet	
DWB, WSP, SFB, PBS, PCP, FHS, BV-WSP		48	48	48	53	58	Actual ^B
GB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 × 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	48
	SDC D _o , 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)						Actual ^B
	≤ 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	—	—	—	—	66	
	144	—	—	—	—	72	
METHOD (See Table BR602.10.4)		Portal header height					48
PFH	Supporting roof only	16	16	16	Note c	Note c	
	Supporting one story and roof	24	24	24	Note c	Note c	
	FFG	24	27	30	Note d	Note d	
CS-PF	SDC A, B and C	16	18	20	Note e	Note e	1.5 × Actual ^B
	SDC D _o , D ₁ and D ₂	16	18	20	Note e	Note e	Actual ^B

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^aor SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm

