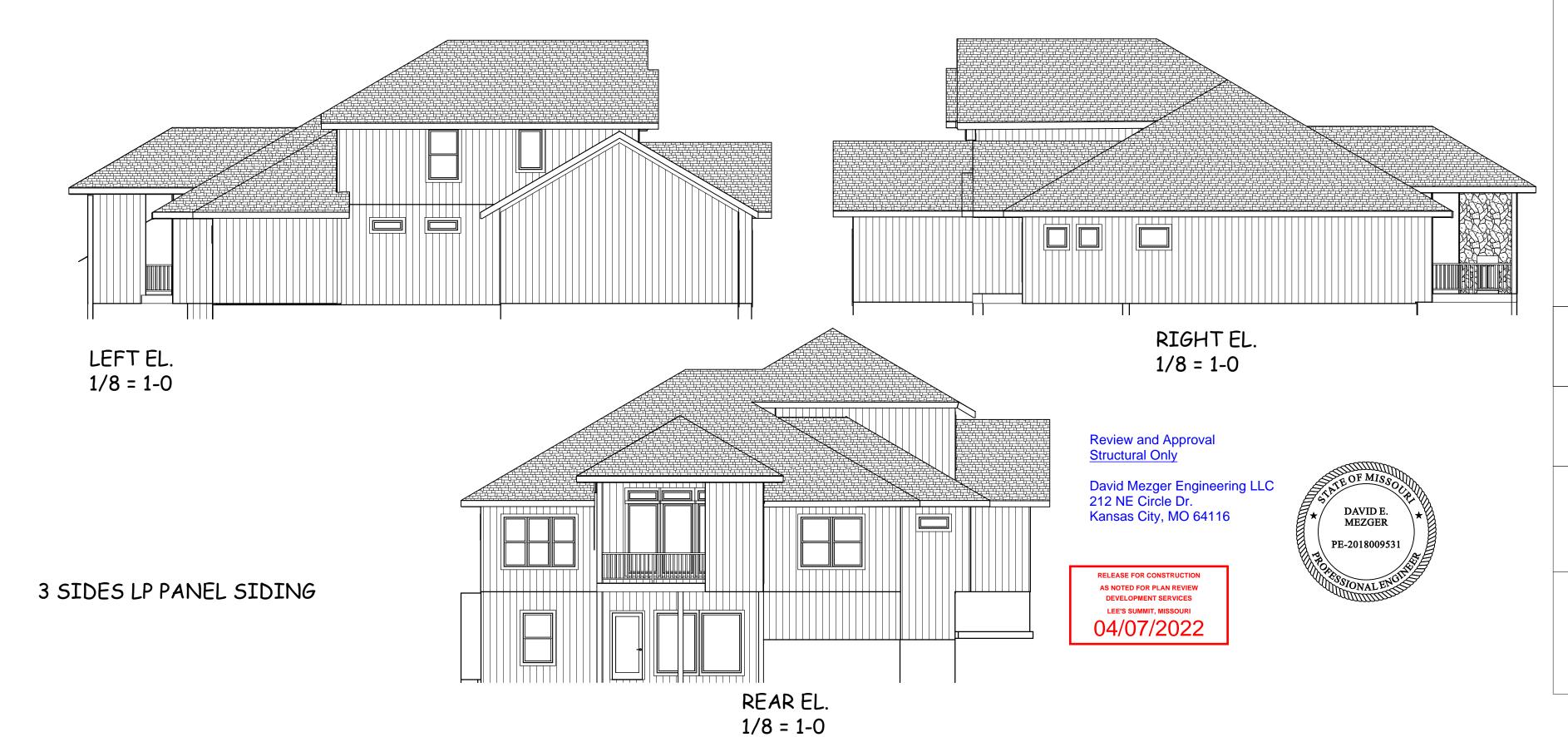
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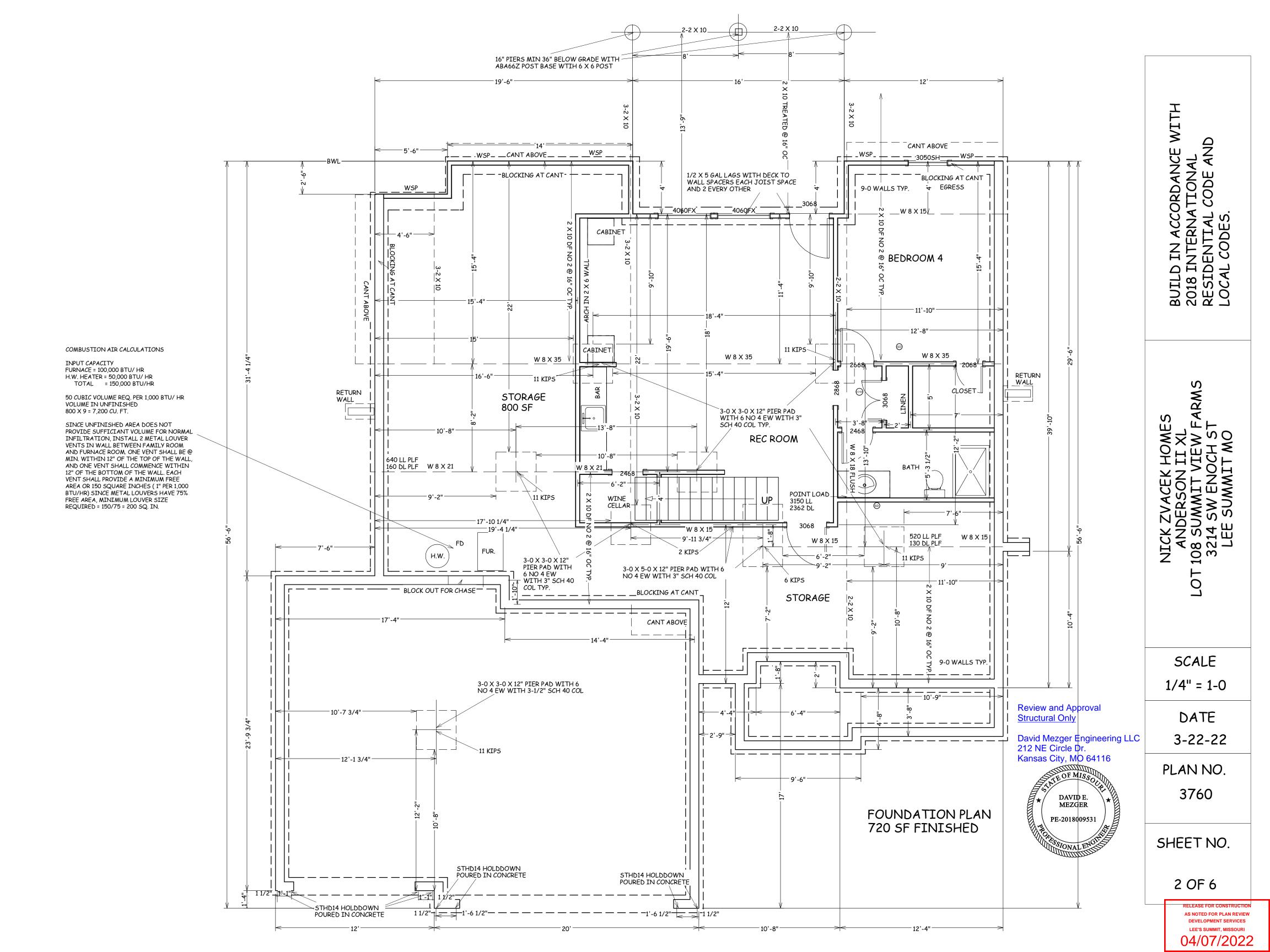
SHEET NO.

1 OF 6



FRONT EL. STUCCO LAP, B & B, AND STONE





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

NICK ZVACEK HOMES ANDERSON II XL LOT 108 SUMMIT VIEW FARM 3214 SW ENOCH ST LEE SUMMIT MO

> SCALE 1/4" = 1-0

> > DATE 3-22-22

PLAN NO. 3760

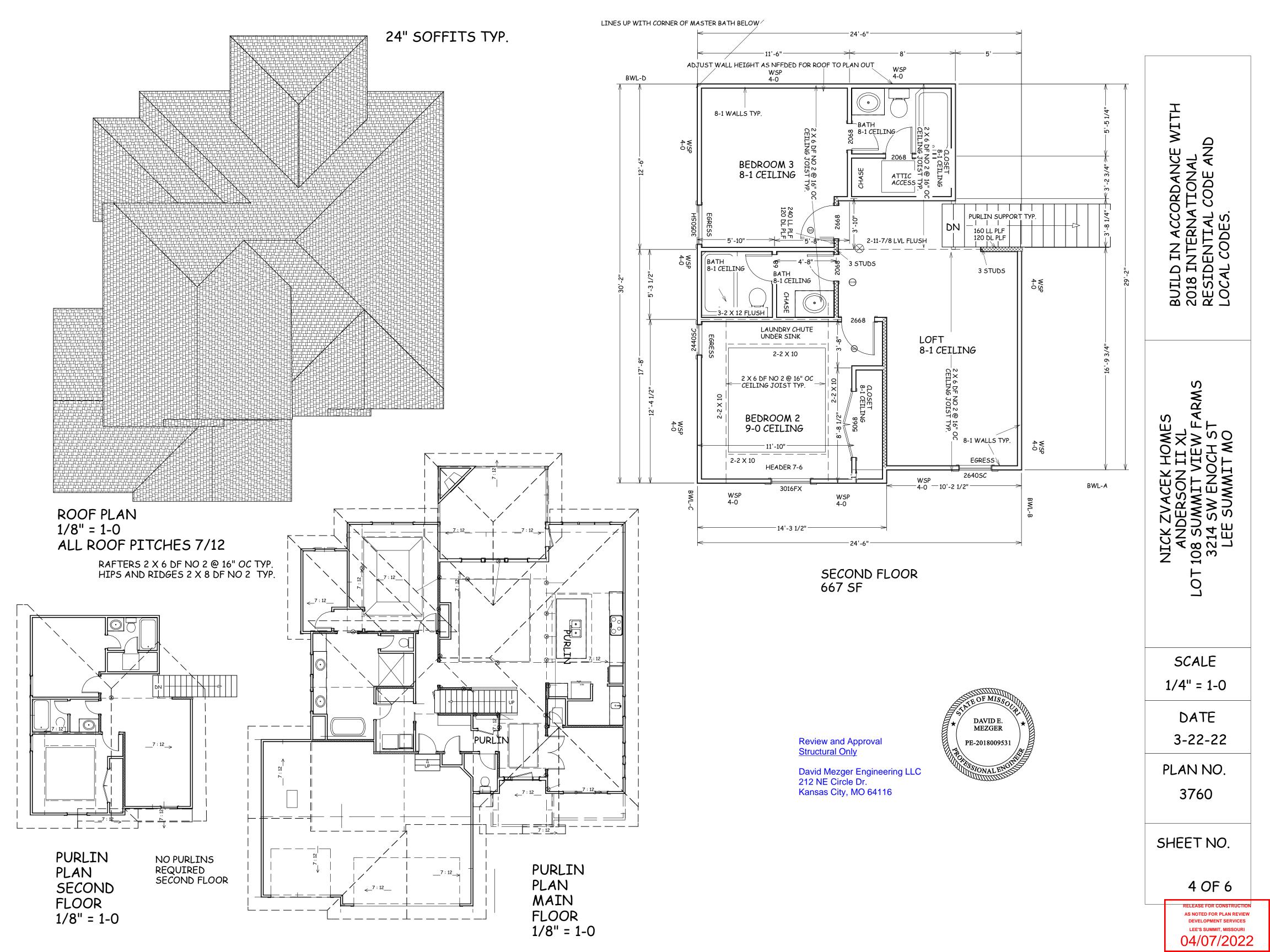
SHEET NO.

3 OF 6

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/07/2022



OPENING OF EGRESS WINDOW NOT MORE THAN 42"

FROM THE FLOOR

PER SECTION 308 MIN 3-0 X 3-0

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

WITH LADDER

THE GLAZING IS WITHIN 24 INCHES OF EITHER VERTICAL EDGE OF

EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A

WALKING SURFACE, SAFETY OR TEMPERED GLAZING IS REQUIRED.

WINDOWS ARE TO HAVE FALL

PROTECTION PER IRC 312.2

THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM

Review and Approval

Structural Only

David Mezger Engineering LLC 212 NE Circle Dr. Kansas City, MO 64116



5 OF 6

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOUR 04/07/2022

TERNA. UILI 018 ESI MVW

CCORDANCE

TONAL

CODE

ARM ANDERSON SUMMIT 214 SW ENG EE SUMMI ∞ \sim \sim 9 0

SCALE 1/4" = 1-0

DATE

3-22-22

PLAN NO. 3760

SHEET NO.

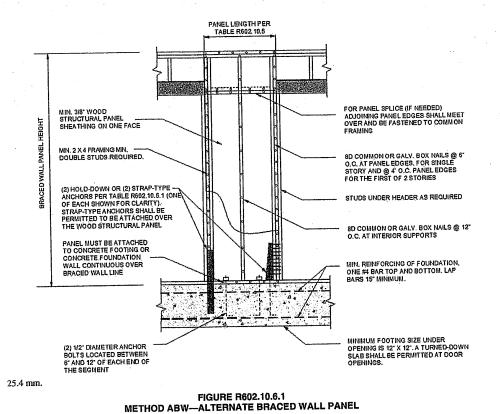
3760

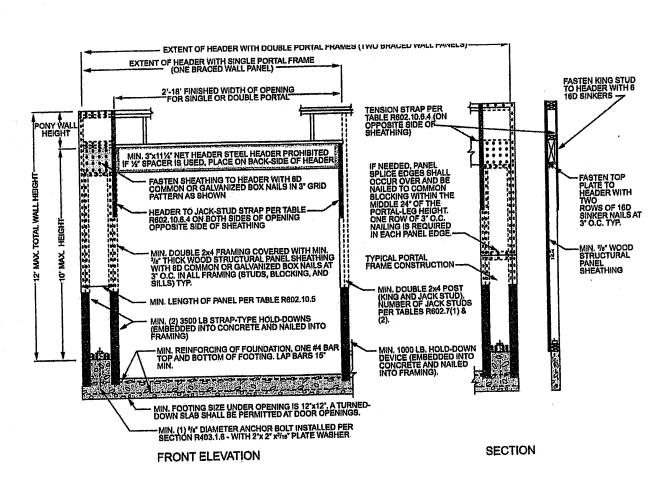
SHEET NO.

6 OF 6

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/07/2022

TABLE R602.10.3(1)
BRACING REQUIREMENTS BASED ON WIND SPEED 3.5 3.5 4.5 7.0 7.5 9.0 15.0 50 10.5 9.0 18.0 18.0 18.0 11.5 ≤ 115 14.0 29.0 16.5 29.0 17.0 20.0 34.5 34.5 18.5 11.0 27.0 20.0 21.0 24.5 43.0 25.0





4 mm, 1 foot = 304.8 mm.

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

TABLE R602.10.4 BRACING METHODS										
				CONNECTION CRITERIA®						
MET	HODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Fasteners	Spacing					
	LIB	1 × 4 wood or approved metal straps	NATION AND A STATE OF THE PARTY		Wood: per stud and top and bottom plates					
Intermittent Bracing Methods	Let-in-bracing	at 45° to 60° angles for maximum 16" stud spacing		Metal strap: per manufacturer	Metal: per manufacturer					
	DWB Diagonal wood boards	³ / ₄ " (1" nominal) for maximum 24" stud spacing		2-8d $(2^{1}/_{2}" \log \times 0.113" \text{ dia.})$ nails or $2 - 1^{3}/_{4}" \log \text{ staples}$	Per stud					
	WSP Wood	3/8"	Teammunities (Exterior sheathing per Table R602.3(3)	6" edges 12" field					
	structural panel (See Section R604)			Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener					
	BV-WSP* Wood structural panels with stone or masonry veneer (See Section R602,10.6.5)	7/ ₁₆ "	See Figure R602.10.6.5	8d common $(2^{1}l_{2}'' \times 0.131)$ nails	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts					
	SFB Structural fiberboard sheathing	1/2" or 25/32" for maximum 16" stud spacing		$1\frac{1}{2}$ " long × 0.12" dia. (for $\frac{1}{2}$ " thick sheathing) $1\frac{3}{4}$ " long × 0.12" dia. (for $\frac{25}{32}$ " thick sheathing) galvanized roofing nails	3" edges 6" field					
	GB			Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7" edges (including top					
	Gypsum board	1/2"		Nails or screws per Table R702.3.5 for interior locations	and bottom plates) 7" field					
	PBS Particleboard sheathing (See Section R605)	³ / ₈ " or ¹ / ₂ " for maximum 16" stud spacing		For ³ / ₈ ", 6d common (2" long × 0.113" dia.) nails For ¹ / ₂ ", 8d common (2 ¹ / ₂ " long × 0.131" dia.) nails	3" edges 6" field					
	PCP Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		1 ¹ / ₂ " long, 11 gage, ⁷ / ₁₆ " dia. head nails or ⁷ / ₈ " long, 16 gage staples	members					
	HPS Hardboard panel siding	⁷ / ₁₆ " for maximum 16" stud spacing		0.092" dia., 0.225" dia. head nails with length to accommodate 11/2" penetration into studs	4" edges 8" field					
	ABW Alternate	3/8"		See Section R602.10.6.1	See Section R602.10.6.1					

TABLE R602.10.4

MINIMUM LE METHOD (See Table R602.10.4)			MINI	CONTRIBUTING LENGTH				
			,		(inches)			
	F	8 feet	9 feet	10 feet	11 feet	12 feet		
DWB, WSP, SFB, P	BS, PCP, HPS, 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 ⁶	
;	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48	
ABW	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	
	Adjacent clear opening height (inches)							
	≤ 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		
CS-WSP, CS-SFB	100		44	40	38	38		
	104		49	43	40	39	Actual ^b	
	108	_	54	46	43	41	_	
	112	-	=	50	45	43		
	116			55	48	45		
	120	-		60	52	48	<u> </u>	
	124	T =	-	_	56	51	_	
	128	T —	_	_	61	54	_	
	132				66	58	_	
	136					62	4 .	
	140	_				66	_	
	144					72	<u> </u>	
METHOD		8 feet	Portal header height				-	
(See T	(See Table R602,10.4)		9 feet	10 feet	11 feet	12 feet		
PFH	Supporting roof only	16	16	16	Note c	Note c	48	
rrn	Supporting one story and roo		24	24	Note c	Note c		
	PFG	24	27	30	Note d	Note d		
CS-PF	SDC A, B and C	16	18	20	Note e	Note e		
C3-PF	SDC D ₀ , D ₁ and D ₂	16	18	20	Note e	Note e	Actual	

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.

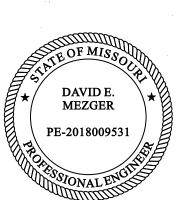
c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.

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.

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

212 NE Circle Dr. Kansas City, MO 64116



Alternate braced wall	³ /g"	<u> </u>	See Section R602.10.6.1		Section R602.10.6.1			
			<u> </u>					
	MINIMUM LE	TABLE	R602,10.5 BRACED	WALL PAI	NELS			
	MINIMUM LENGTH' (Inches)						CONTRIBUTING LENGTH	
Mi (See Tab	METHOD (See Table R602.10.4)			Wali Height			(inches)	
		8 feet	9 feet	10 feet	11 feet	12 feet	16	PO
DWB, WSP, SFB, P	BS, PCP, HPS, BV-WSP	48	48	48	53	58	Actual ^b	
	48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual		
	LIB	55	62	69	NP	NP	Actual ^b	Ė
;	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48	12" MAX, TOTAL WALL HEIGHT
ABW	SDC D ₀ , D ₁ and D ₂ , ultimate design wind speed < 140 mph	32	32	34	NP	NP		X. TOTAL
	CS-G	24	27	30	33	36	Actual ^b	, S
	Adjacent clear opening height (inches)							Ï
	≤ 64	24	27	30	33	36		
	68	26	27	30	33	36		
	72	27	27	30	33	36		1 1
	76	30	29	30	33	36		I
	80	32	30	30	33	36	4 .	
	84	35	32	32	33	36		
	88	38	35	33	33	36	4	
	92	43	37	35	35	36	-	
	96	48	41	38	36 38	36 38	-	
CS-WSP, CS-SFB	100	<u> </u>	44	40	40	39	Actual ^b	
	104	 	49 54	43	43	41	-	
	108		34	50	45	43	-	
	112	 	├-	55	48	45	┥.	
	116	 	 _ _	60	52	48	-	
	120		$+ \equiv$	1	56	51	-	
	124 128	+=	$+ \equiv$	+=	61	54	-	
	132	 	+=-	-	66	58	-	1
	136	+=	+	+=	+	62		
	140	+	+	+=	+	66	1	
	144	+=	 	+-	T -	72	1	_
· .	METHOD 1777	+	P	ortal heads	r height			
(See Table R602,10.4) Supporting roof only		8 feet				4		
		16	16	16	Note c	Note c	48	-
PFH	Supporting one story and roo	f 24	24	24	Note c	Note c		-
	PFG	24	27	30	Note d	Note d		
			10	20	Note a	Mote e	1 5 x Actual ^b	1

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

Portal frame at garage

Continuously sheathe wood structural pane

CS-PF

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

- WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIN

See Section R602.10.6.2

See Section R602.10.6.3

Exterior sheathing p 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

1¹/₂" long × 0.12" dia. (for ¹/₂" thick sheathing) 1³/₄" long × 0.12" dia. (for ²⁵/₃" thick sheathing)

TYPICAL PORTAL FRAME CONSTRUCTION

SECTION

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, D₀, D₁ and D₂.

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-O 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-O panel.

d. Method CS-SFB does not apply in Seismic Design Categories D₀, D₁ and D₂.

e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₀ through D₂ only.

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

IIN. 3"X111/" NET HEADER STEEL HEADER PROHIBITE W SPACER IS USED, PLACE ON BACK-SIDE OF HEADI

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

See Section R602.10.6.3

6" edges 12" field

See Method CS-WSP

See Section R602.10.6.4

3" edges 6" field

Review and Approval Structural Only

David Mezger Engineering LLC