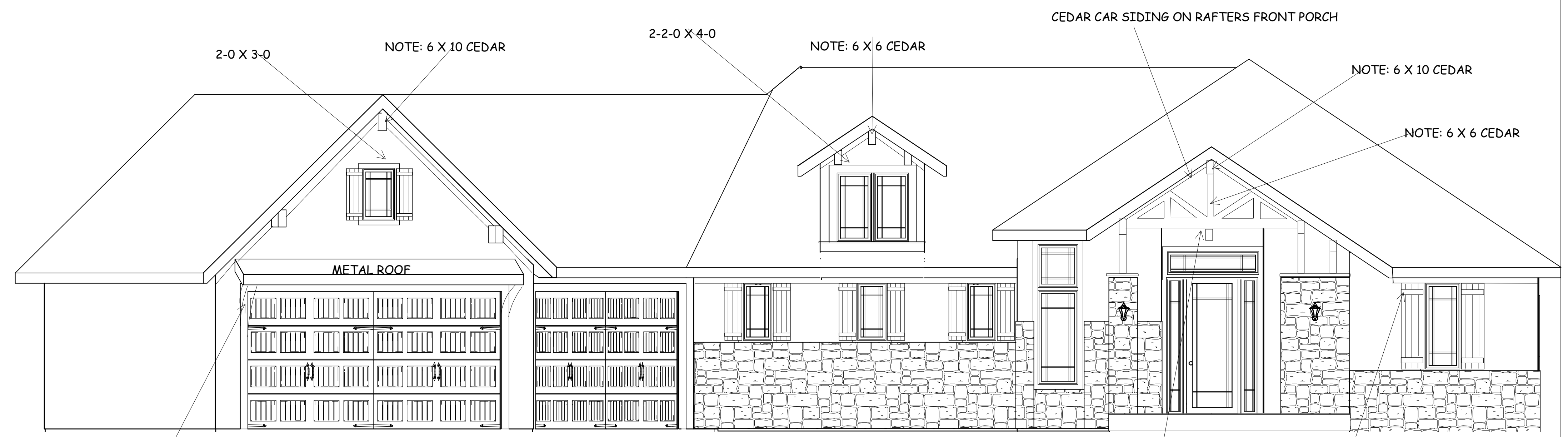
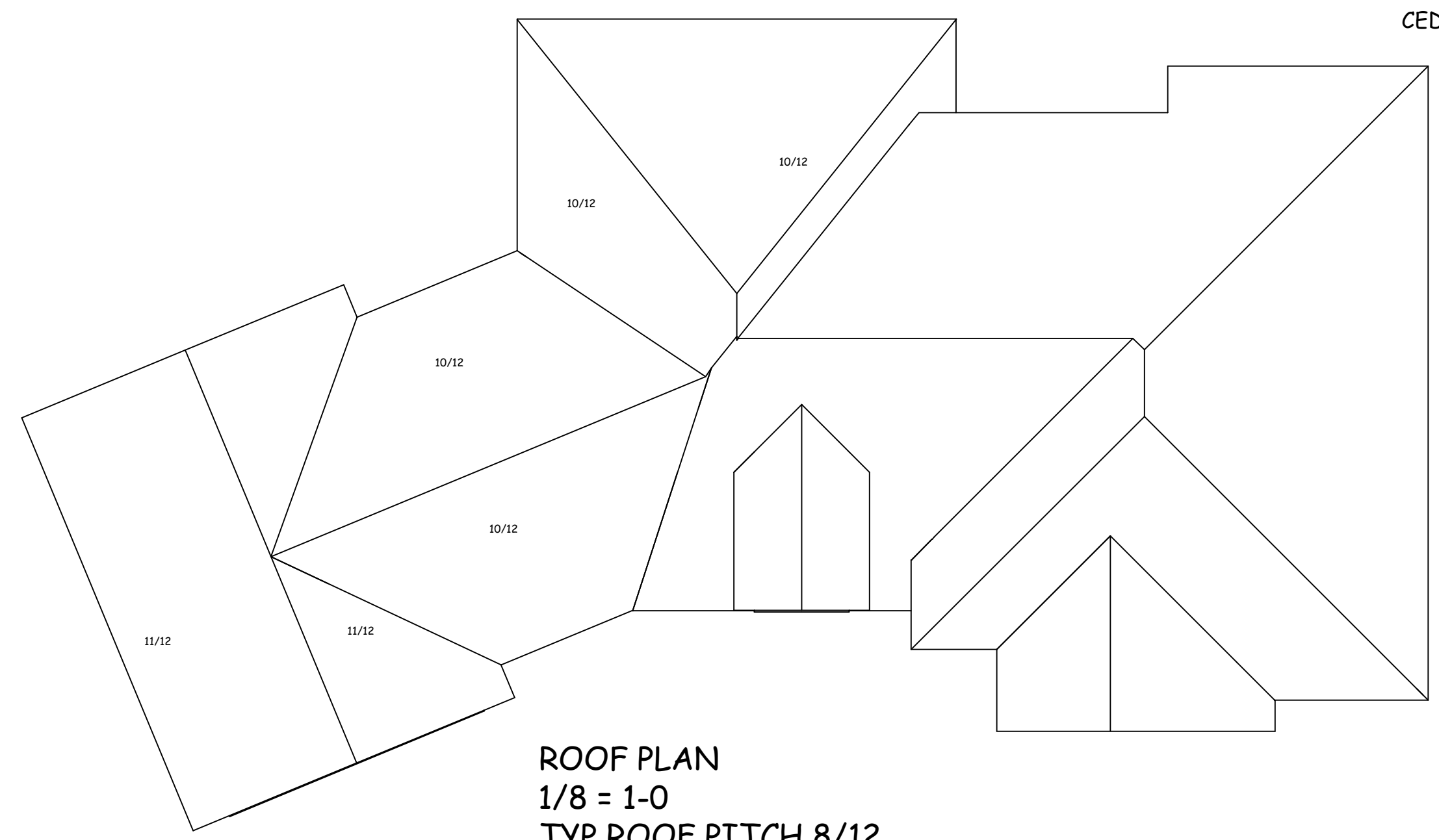


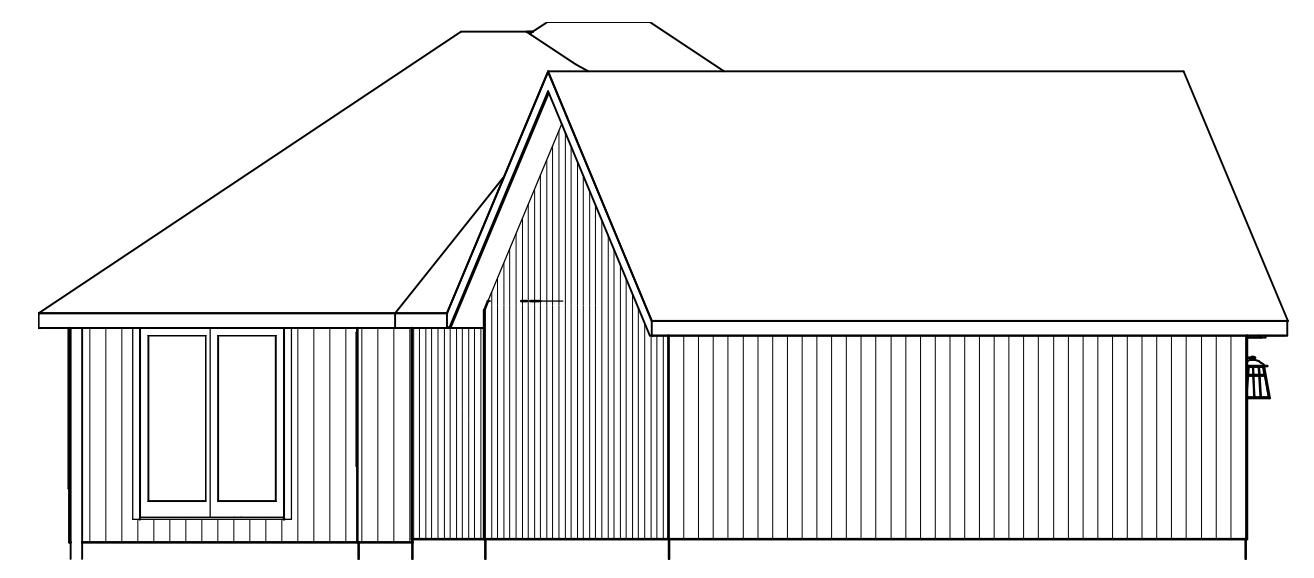
NOTE: WOOD BEAMS INSTALLED BEFORE FREEZE BAND



FRONT EL.
 STUCCO AND STONE



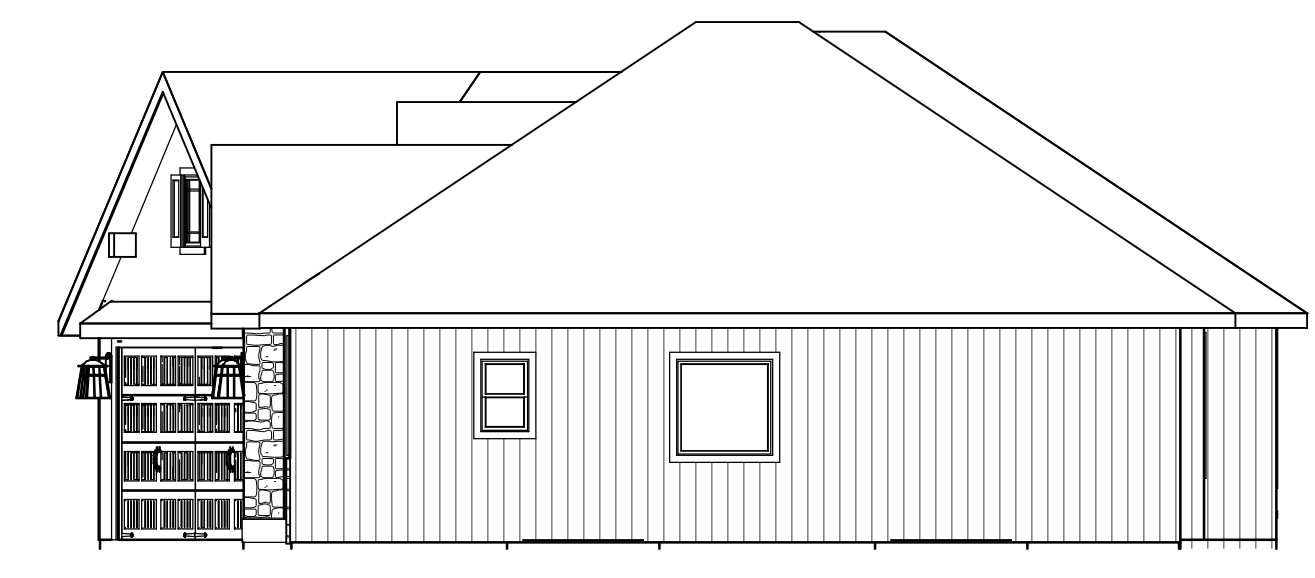
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LEFT EL.
 1/8 = 1-0



REAR EL.
 1/8 = 1-0



RIGHT EL.
 1/8 = 1-0

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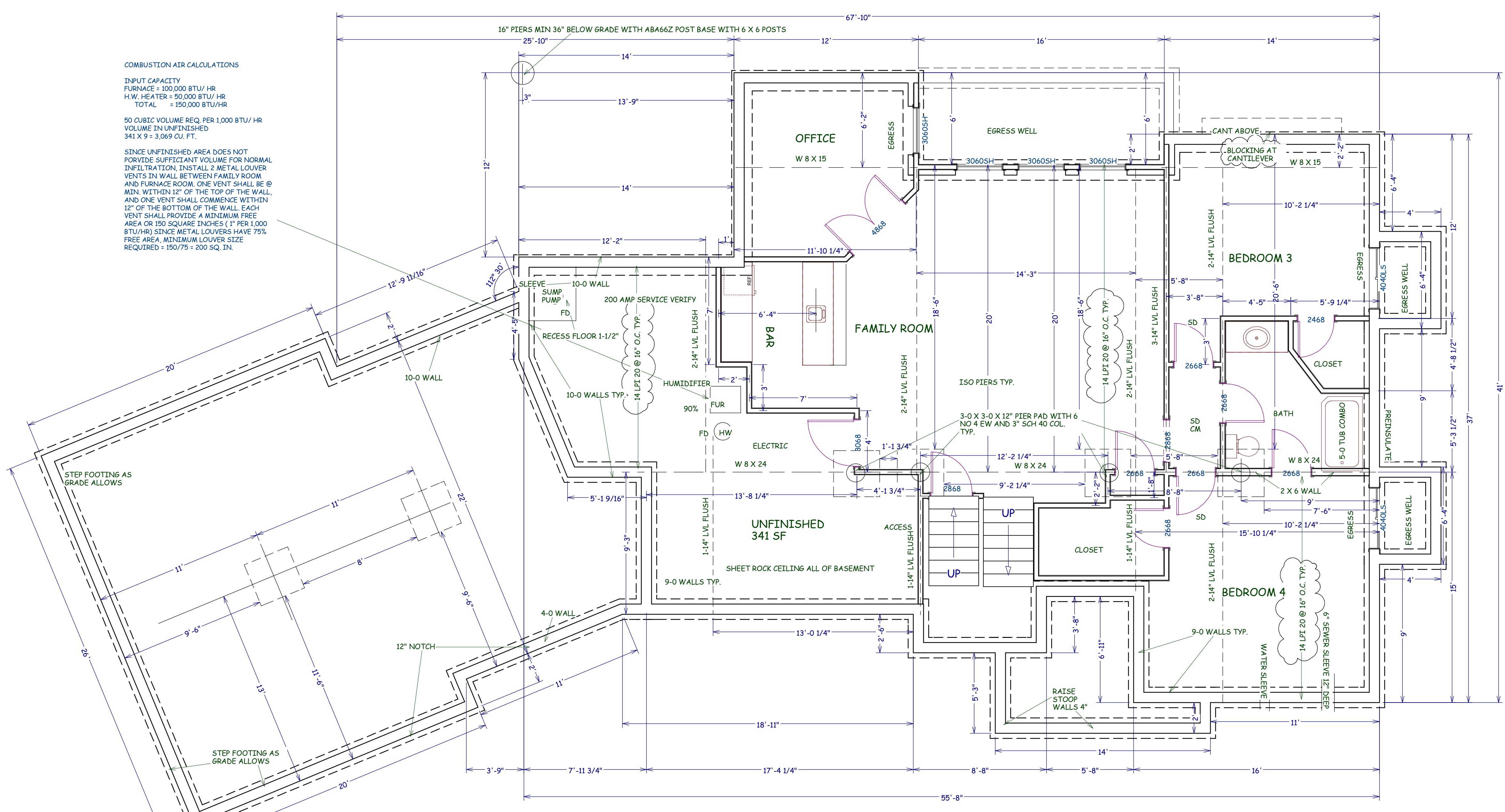
ELEVATE DESIGN & BUILD
 LOT 84 HOOK FARMS
 2112 SW HARVEST MOON LOOP
 LEE SUMMIT MO

SCALE
 1/4" = 1-0

DATE
 11-24-21

PLAN NO.
 3654

SHEET NO.
 1 OF 8

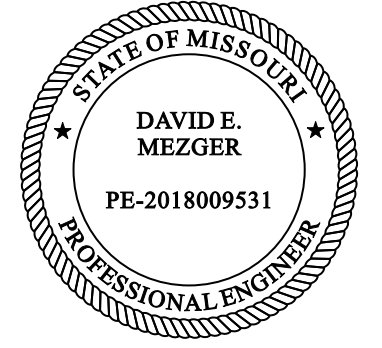


COMBUSTION AIR CALCULATIONS
 INPUT CAPACITY
 FURNACE = 100,000 BTU/HR
 H.W. HEATER = 50,000 BTU/HR
 TOTAL = 150,000 BTU/HR
 50 CUBIC VOLUME REQ. PER 1,000 BTU/HR
 VOLUME IN UNFINISHED
 341 X 9 = 3,069 CU. FT.
 SINCE UNFINISHED AREA DOES NOT
 PROVIDE SUFFICIENT VOLUME FOR NORMAL
 INFILTRATION, INSTALL 2 METAL LOUVER
 VENTS IN WALL BETWEEN FAMILY ROOM
 AND FURNACE ROOM. ONE VENT SHALL BE @
 MIN. WITHIN 12" OF THE TOP OF THE WALL,
 AND ONE VENT SHALL COMMENCE WITHIN
 12" OF THE BOTTOM OF THE WALL. EACH
 VENT SHALL PROVIDE A MINIMUM FREE
 AREA OR 150 SQUARE INCHES (1" PER 1,000
 BTU/HR) SINCE METAL LOUVERS HAVE 75%
 FREE AREA, MINIMUM LOUVER SIZE
 REQUIRED = 150/75 = 200 SQ. IN.

FOUNDATION PLAN
 1257 S.F. FINISHED

SEE I JOISTS LAYOUT FOR I JOISTS DETAILS
 MIN 3/4" DECKING

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 2112 SW HARVEST MOON LOOP
 LEE SUMMIT MO

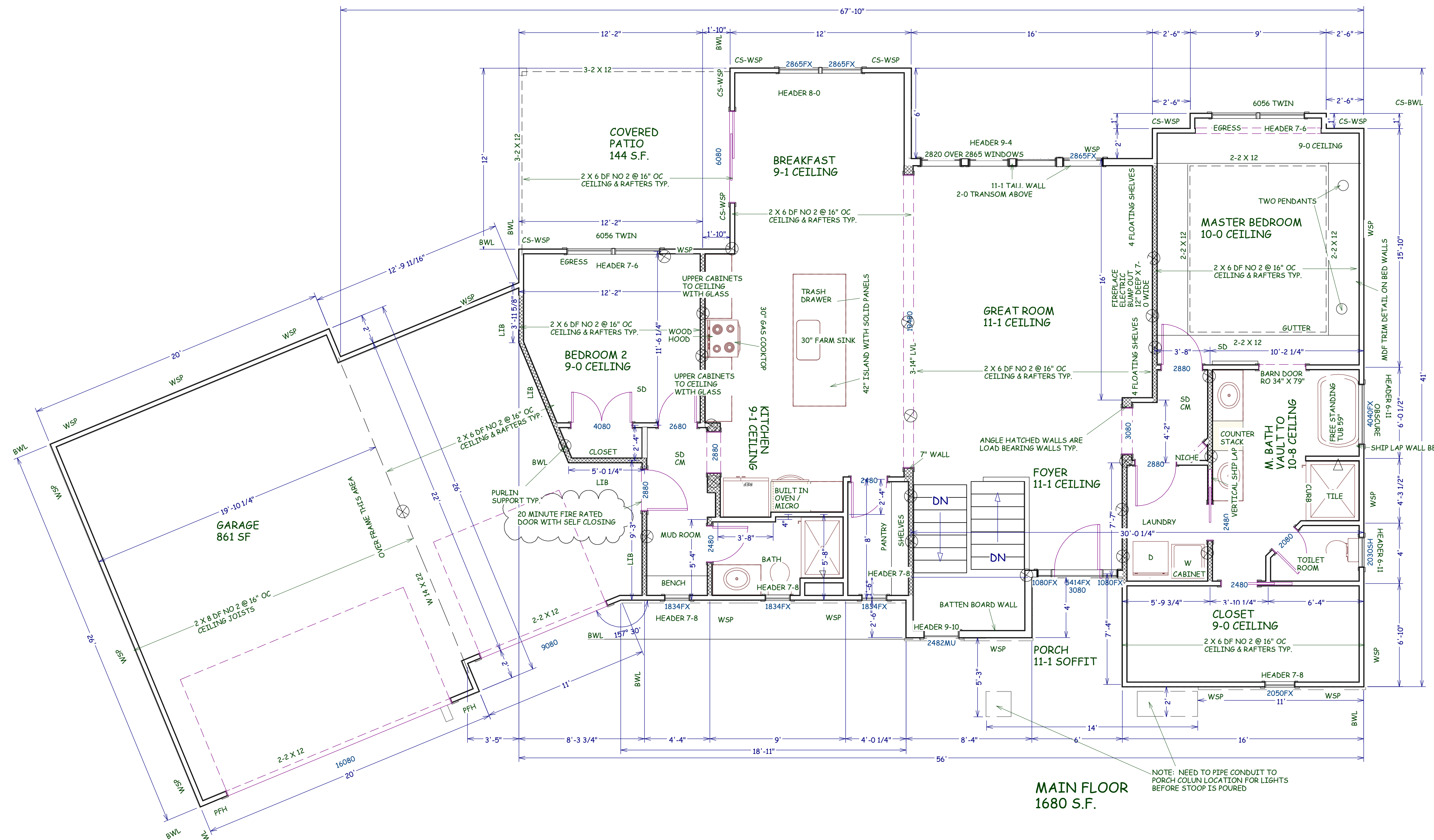
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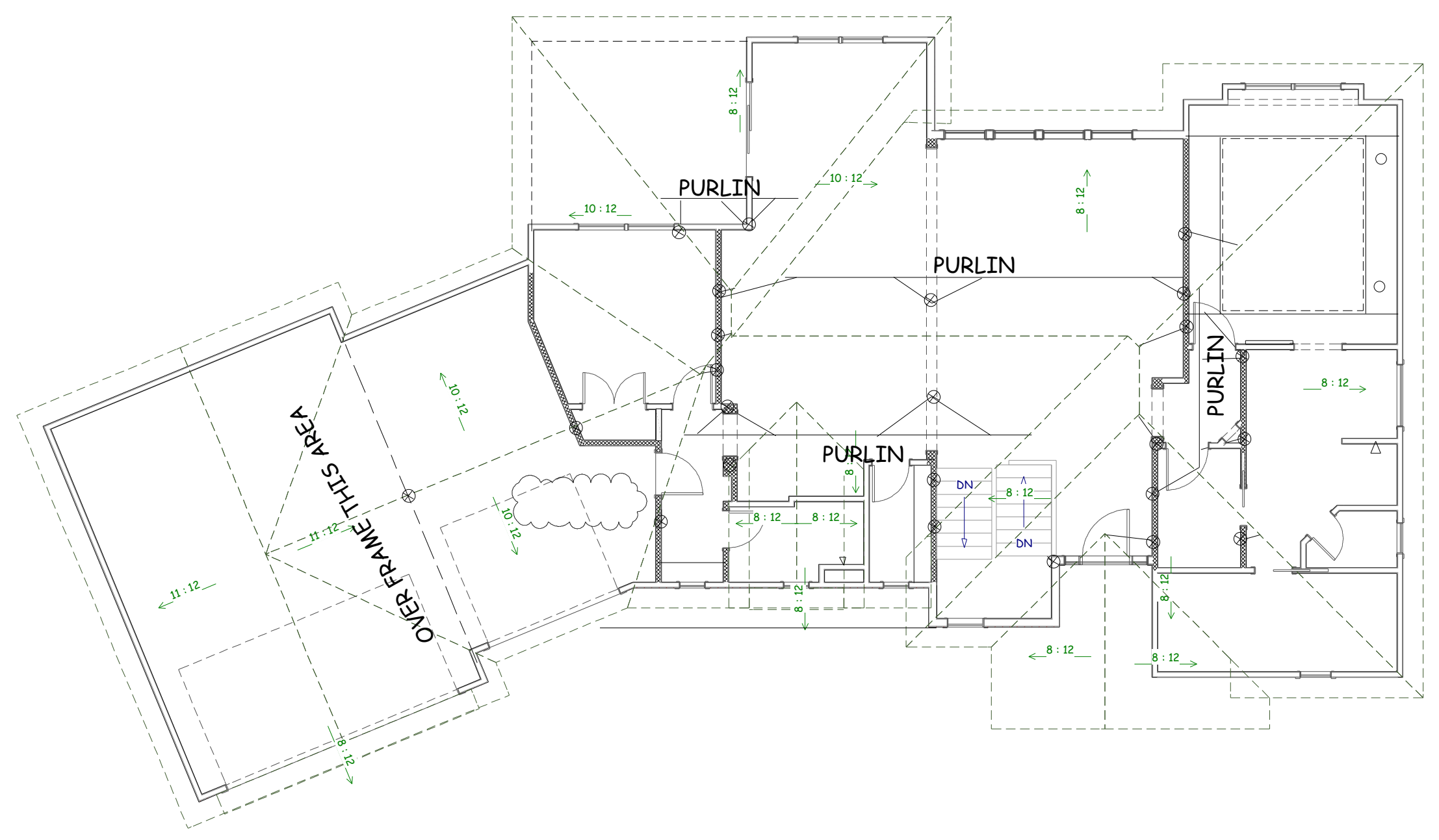
SHEET NO.

2 OF 8



SQUARE FOOTAGES
 MAIN FLOOR 1680 S.F.
 BASEMENT FINISHED 1257 SF
 UNFINISHED BASEMENT 341 SF
 GARAGE 861 S.F.

MAIN FLOOR
 1680 S.F.



PURLIN SUPPORT PLAN
 1/8" = 1-0

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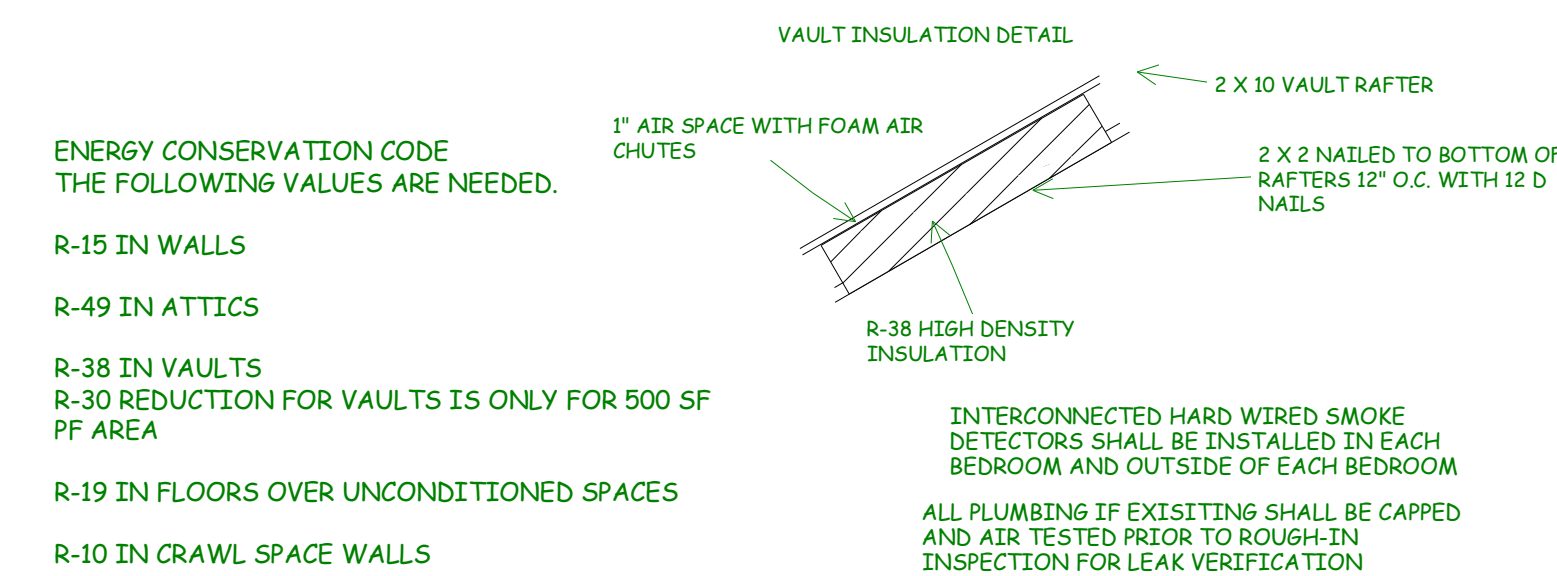
ELEVATE DESIGN & BUILD
 LOT 84 HOOK FARMS
 2112 SW HARVEST MOON LOOP
 LEE SUMMIT MO

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PLAN NO.
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SHEET NO.
 3 OF 8



ENERGY CONSERVATION CODE
 THE FOLLOWING VALUES ARE NEEDED.

R-15 IN WALLS

R-49 IN ATTICS

R-38 IN VAULTS

R-30 REDUCTION FOR VAULTS IS ONLY FOR 500 SF PF AREA

R-19 IN FLOORS OVER UNCONDITIONED SPACES

R-10 IN CRAWL SPACE WALLS

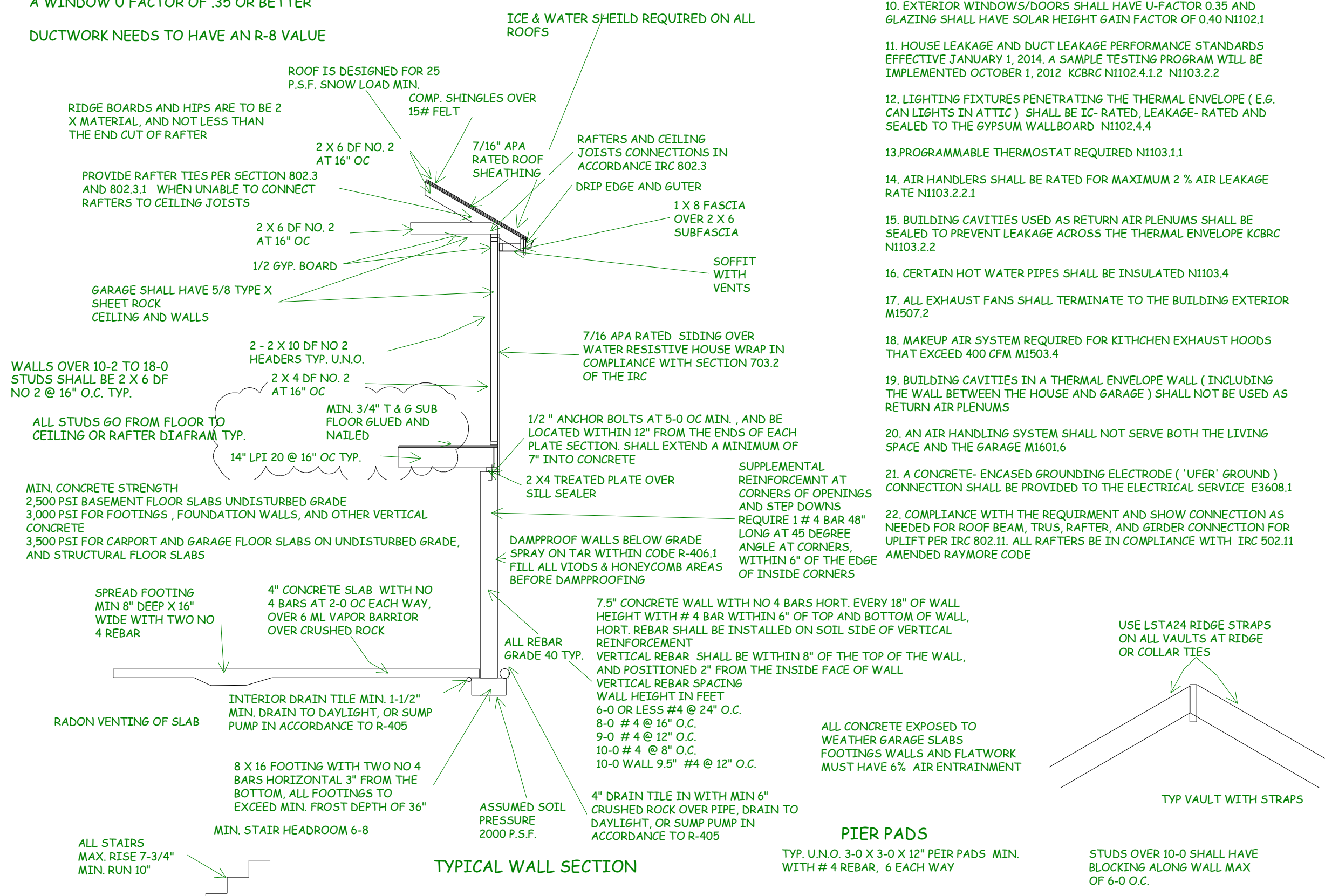
BASEMENT WALLS R-13 CAVITY OR R-10 CONTINUOUS

SLABS SHALL BE R-10 FOR A DEPTH OF 2 FOOT

A WINDOW U FACTOR OF .35 OR BETTER

DUCTWORK NEEDS TO HAVE AN R-8 VALUE

1. DWELLING / GARAGE OPENINGS BETWEEN GARAGE AND SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS SHALL BE EQUIPPED WITH SOLID WOOD OR STEEL DOORS NOT LESS THAN 1-3/8" THICK OR 20 MINUTE RATED DOORS, WITH SELF CLOSING DEVICES REQUIRED FOR GARAGE / DWELLING SEPERATION DOORS R302.5.1
2. WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS REQUIRED FOR ANY DWELLING IN COMPLIANCE WITH IRC M 1505
3. CARBON MONOXIDE DETECTORS REQUIRED IRC R 315
4. STEEL COLUMNS SHALL BE MINIMUM SCHEDULE 40 R407.3
5. DECK SHALL BE BUILT PER TABLES 507.2, 507.2.1, 507.3, 507.6, 507.5.1(1)&(2), 507.5, AND 507.6
6. STUDS SHALL BE CONTINUOUS BETWEEN FLOOR, CEILING AND OR ROOF DIAPHRAGMS R602.3
7. ADDED REQUIREMENTS FOR WINDOW FALL PROTECTION R312.2
8. NEW PROVISIONS FOR ATTACHMENT OF RAFTERS, TRUSSES AND ROOF BEAMS R802.3.1, R802.11
9. INSULATION REQUIRED FOR ALL BASEMENT WALLS (INCLUDING UNFINISHED BASEMENTS) N1102.1
10. EXTERIOR WINDOWS/DOORS SHALL HAVE U-FACTOR 0.35 AND GLAZING SHALL HAVE SOLAR HEIGHT GAIN FACTOR OF 0.40 N1102.1
11. HOUSE LEAKAGE AND DUCT LEAKAGE PERFORMANCE STANDARDS EFFECTIVE JANUARY 1, 2014. A SAMPLE TESTING PROGRAM WILL BE IMPLEMENTED OCTOBER 1, 2012 KCBRC N1102.4.1.2 N1103.2.2
12. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE (E.G. CANDLE LIGHTS IN ATTIC) SHALL BE IC-RATED, LEAKAGE-RATED AND SEALED TO THE GYPSUM WALLBOARD N1102.4.4
13. PROGRAMMABLE THERMOSTAT REQUIRED N1103.1.1
14. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2 % AIR LEAKAGE RATE N1103.2.2.1
15. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE KCBRC N1103.2.2
16. CERTAIN HOT WATER PIPES SHALL BE INSULATED N1103.4
17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR M1507.2
18. MAKEUP AIR SYSTEM REQUIRED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM M1503.4
19. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL (INCLUDING THE WALL BETWEEN THE HOUSE AND GARAGE) SHALL NOT BE USED AS RETURN AIR PLENUMS
20. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE M1601.6
21. A CONCRETE- ENCASED GROUNDING ELECTRODE ("UFER" GROUND) CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE E3408.1
22. COMPLIANCE WITH THE REQUIREMENT AND SHOW CONNECTION AS NEEDED FOR ROOF BEAM, TRUSS, RAFTER, AND GIRDER CONNECTION FOR UPLIFT PER IRC 802.11. ALL RAFTERS BE IN COMPLIANCE WITH IRC 502.11 AMENDED RAYMORE CODE



WINDOW SAFETY GLAZING PER 308

SAFETY GLAZING REQUIRED ALONG WALKING SURFACES AND STAIRS LOCATED WITHIN 36 INCHES HORIZONTALLY OF THE STEPS. SAFETY GLAZING REQUIRED IF EXPOSED SINGLE PANEL IS IN EXCESS OF 9 SQUARE FEET OR THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FINISHED FLOOR.

SAFETY GLAZING REQUIRED WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN 24 INCHES OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE. SAFETY OR TEMPERED GLAZING IS REQUIRED.

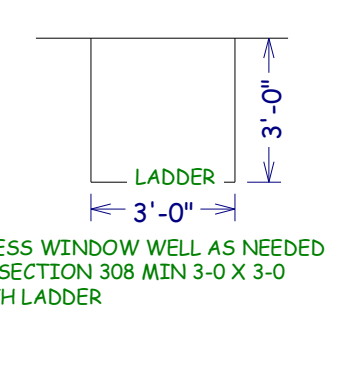
WINDOWS ARE TO HAVE FALL PROTECTION PER IRC 312.2

WINDOW EGRESS REQUIREMENTS

BEDROOM WINDOW EGRESS MINIMUM FOR A DOUBLE HUNG WINDOW IS 34 INCH CLEAR WIDTH MIN. AND 24 INCH CLEAR HEIGHT MIN. WITH A CLEAR OPENABLE AREA OF 5.7 SQUARE FEET MIN.

A CASEMENT OR SLIDER WINDOW MINIMUMS ARE 20 INCH CLEAR WIDTH MINIMUM AND 41 INCH CLEAR HEIGHT MINIMUM. WITH A MINIMUM 5.7 SQUARE FOOT OF OPENABLE AREA.

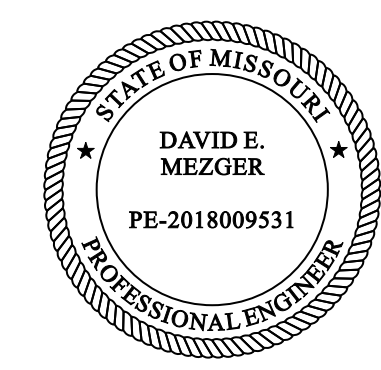
OPENINGS OF EGRESS WINDOW NOT MORE THAN 42" FROM THE FLOOR.



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

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 Kansas City, MO 64116



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 2112 SW HARVEST MOON LOOP
 LEE SUMMIT MO

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DATE
 11-24-21

PLAN NO.
 3654

SHEET NO.
 4 OF 8

TABLE R602.10.2(1) BRACING REQUIREMENTS BASED ON WIND SPEED

Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE*				
			Method LIB ^b	Method GB	Methods DWB, WSP, SFB, PFB, PCP, HPS, BV-WSP, ABW, PFF, PFC, 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	

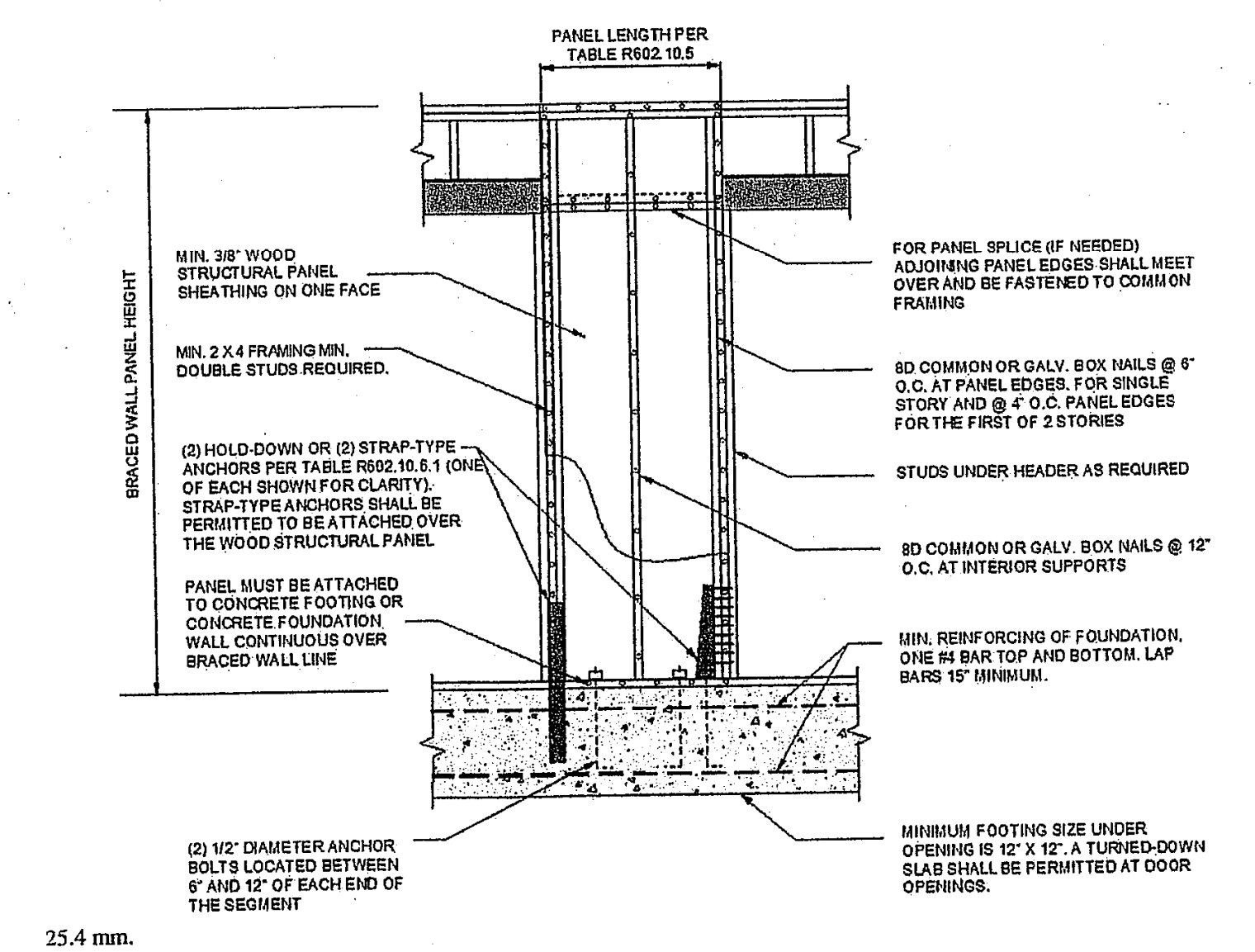


FIGURE R602.10.6.1 METHOD ABW—ALTERNATE BRACED WALL PANEL

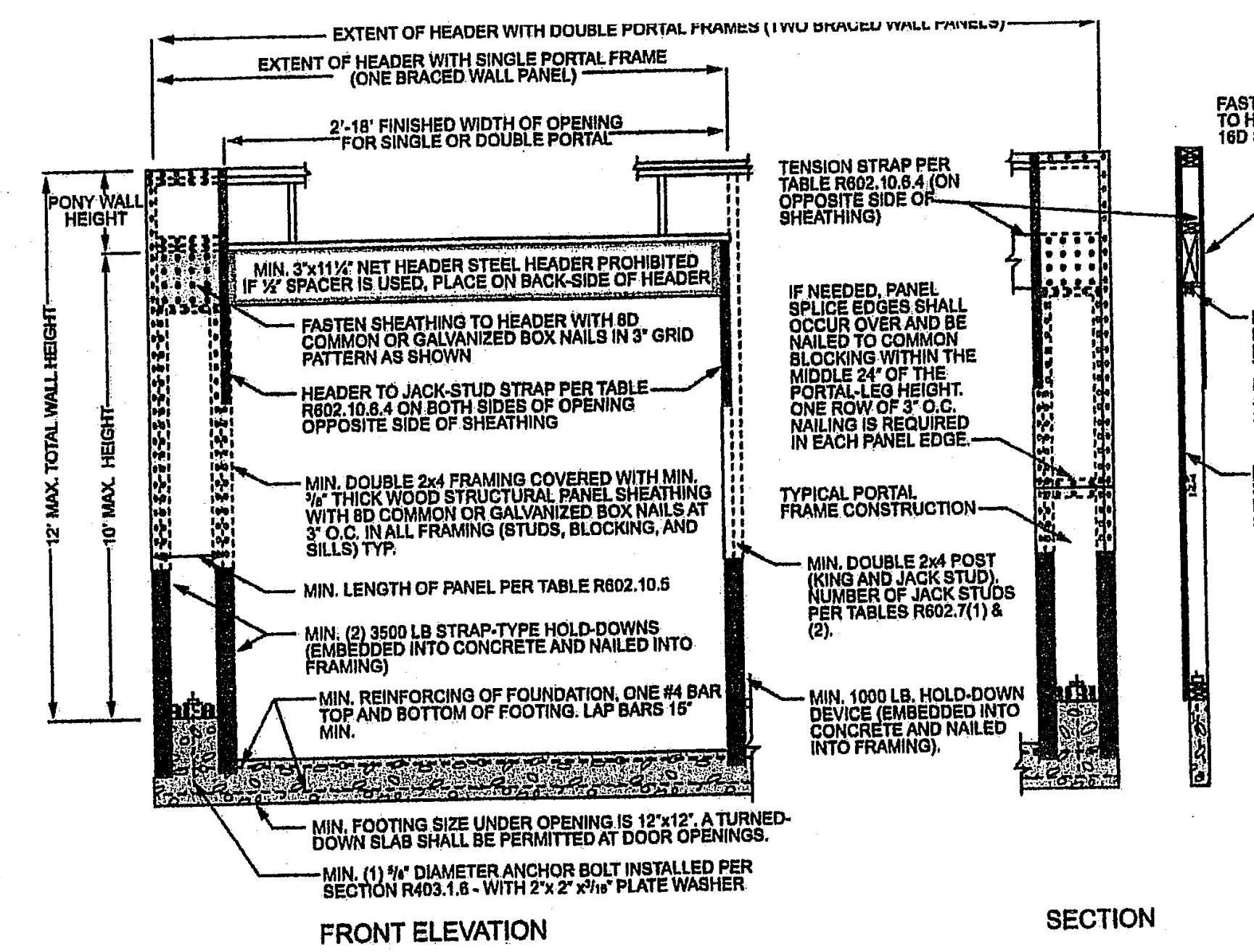


FIGURE R602.10.6.2 METHOD PFF—PORTAL FRAME WITH HOLD-DOWNS

4 mm, 1 foot = 304.8 mm.

TABLE R602.10.4 BRACING METHODS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA*	
			Fasteners	Spacing
LIB Let-in-bracing	1 x 4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing		Wood: 2-8d common nails or 3-8d (2 1/2" long x 0.113" dia.) nails Metal strap: per manufacturer	Wood: per stud and top and bottom plates Metal: per manufacturer
DWB Diagonal wood boards	3/4" (1" nominal) for maximum 24" stud spacing		2-8d (2 1/2" long x 0.113" dia.) nails or 2 - 1 1/4" long staples	Per stud
WSP Wood structural panel (See Section R604)	3/8"		Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6" edges 12" field 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 1/2" x 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 5/8" for maximum 16" stud spacing		1 1/2" long x 0.12" dia. (for 1/2" thick sheathing) 1 1/4" long x 0.12" dia. (for 5/8" thick sheathing) galvanized roofing nails	3" edges 6" field
GB Gypsum board	1/2"		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" edges (including top and bottom plates) 7" field
PBS Particleboard sheathing (See Section R605)	3/4" or 1/2" for maximum 16" stud spacing		For 3/4": 6d common (2" long x 0.113" dia.) nails For 1/2": 8d common (2 1/2" long x 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 7/16" long, 16 gage staples	6" o.c. on all framing members
HPS Hardboard panel siding	7/16" for maximum 16" stud spacing		0.092" dia., 0.225" dia. head nails with length to accommodate 1 1/2" penetration into studs	4" edges 8" field
ABW Alternate braced wall	3/4"		See Section R602.10.6.1	See Section R602.10.6.1

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS

METHOD (See Table R602.10.4)	Wall Height (feet)					CONTRIBUTING LENGTH (inches)
	8	9	10	11	12	
DWB, WSP, SFB, PFB, PCP, HPS, BV-WSP	48	48	48	53	58	Actual ^b
LIB	55	62	69	NP	NP	Double sided = Actual Single sided = 0.5 x Actual
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42
	SDC D ₁ , D ₂ and D ₃ , 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
	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 R602.10.4)	Portal header height					
	8 feet	9 feet	10 feet	11 feet	12 feet	
	Supporting roof only	16	16	16	Note c	Note c
	Supporting one story and roof	24	24	24	Note c	Note c
	PFF	24	27	30	Note d	Note d
PFG	SDC A, B and C	16	18	20	Note e	Note e
	SDC D ₁ , D ₂ and D ₃	16	18	20	Note e	Note e
CS-PF	16	18	20	Note e	Note e	Actual ^b

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 when it is greater than or equal to the minimum length.
 c. Maximum header height for PFF 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.

TABLE R602.10.4—continued BRACING METHODS

METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA*	
			Fasteners	Spacing
PFH Portal frame with hold-downs	3/4"		See Section R602.10.6.2	See Section R602.10.6.2
PFG Portal frame at garage	7/16"		See Section R602.10.6.3	See Section R602.10.6.3
Continuous Sheathing Methods	CS-WSP Continuously sheathed wood structural panel	3/8"	Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2)	6" edges 12" field Varies by fastener
	CS-G ^a Continuously sheathed wood structural panel adjacent to garage openings	3/8"	See Method CS-WSP	See Method CS-WSP
	CS-PF Continuously sheathed portal frame	7/16"	See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB ^a Continuously sheathed structural fiberboard	1/2" or 5/8" for maximum 16" stud spacing		1 1/2" long x 0.12" dia. (for 1/2" thick sheathing) 1 1/4" long x 0.12" dia. (for 5/8" thick sheathing) galvanized roofing nails

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, D₁, D₂ and D₃.
 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 D₁, D₂ and D₃, roof covering dead load shall not exceed 5 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 D₁, D₂ and D₃.
 e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₁ through D₃ only.

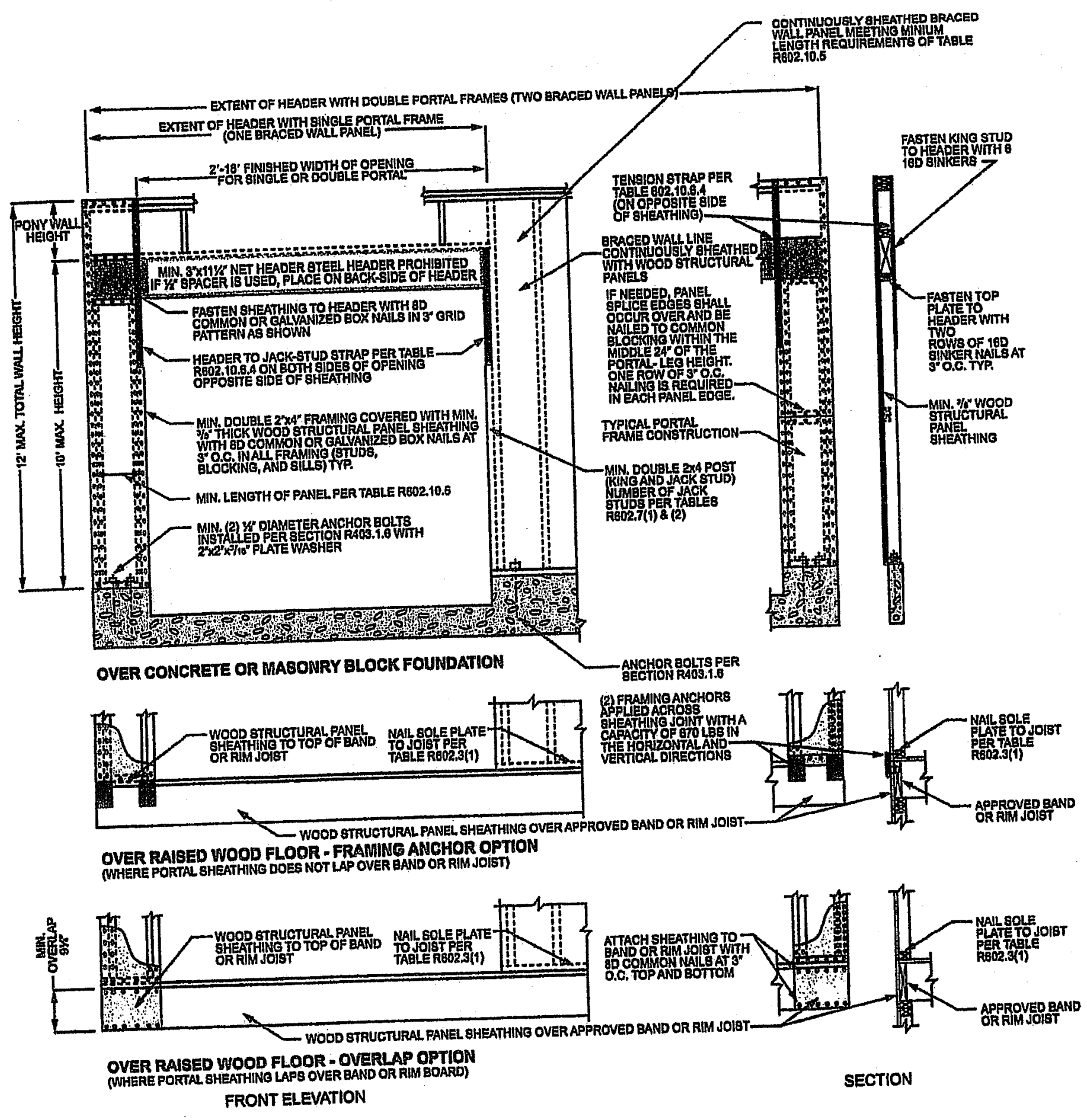


FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

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

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

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ELEVATE DESIGN & BUILD
 LOT 84 HOOK FARMS
 2112 SW HARVEST MOON LOOP
 LEE SUMMIT MO

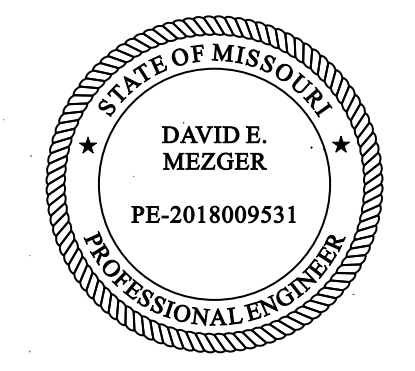
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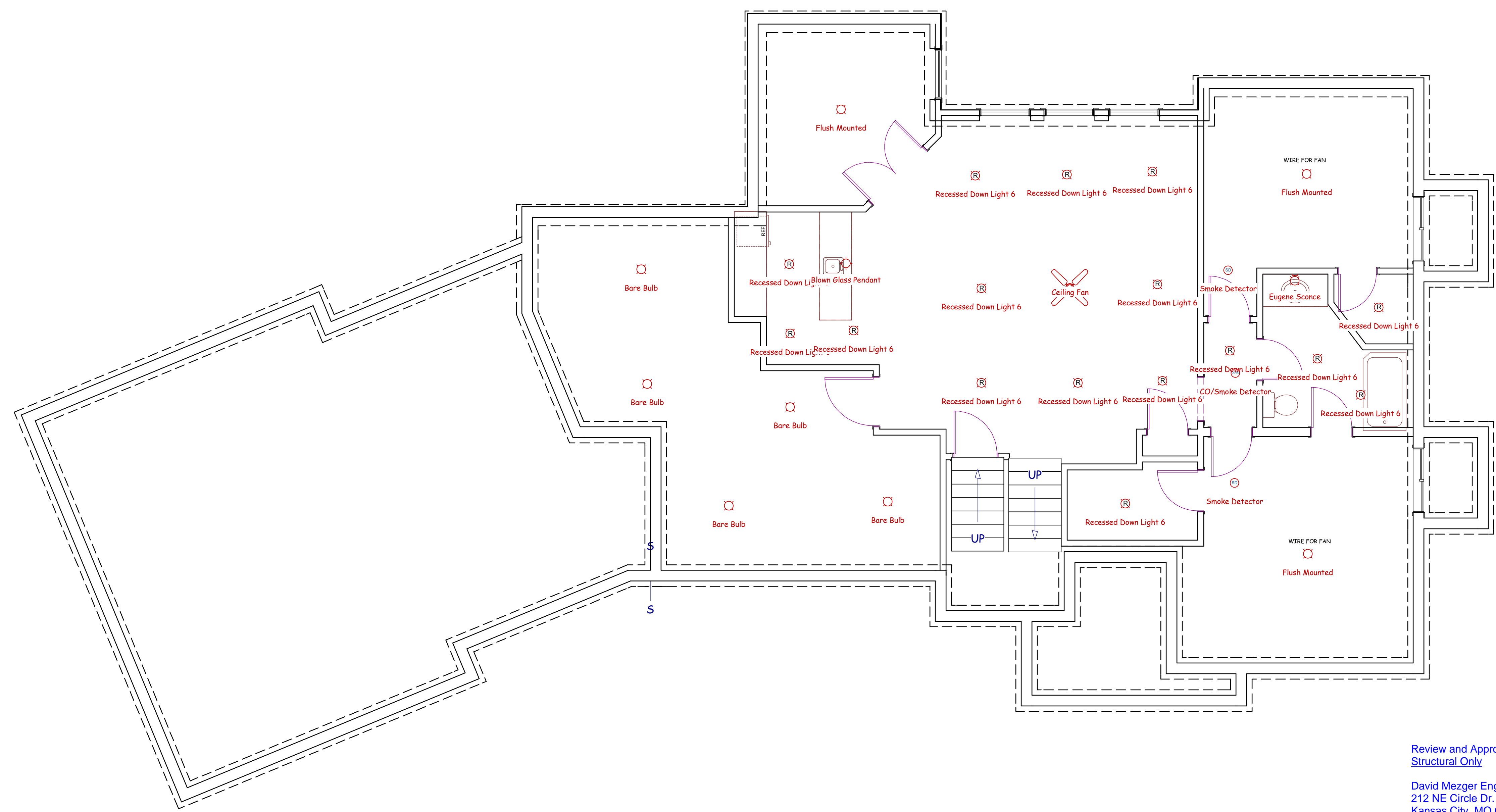
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PLAN NO.
 3654

SHEET NO.

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LIGHTING PLAN
FOUNDATION

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



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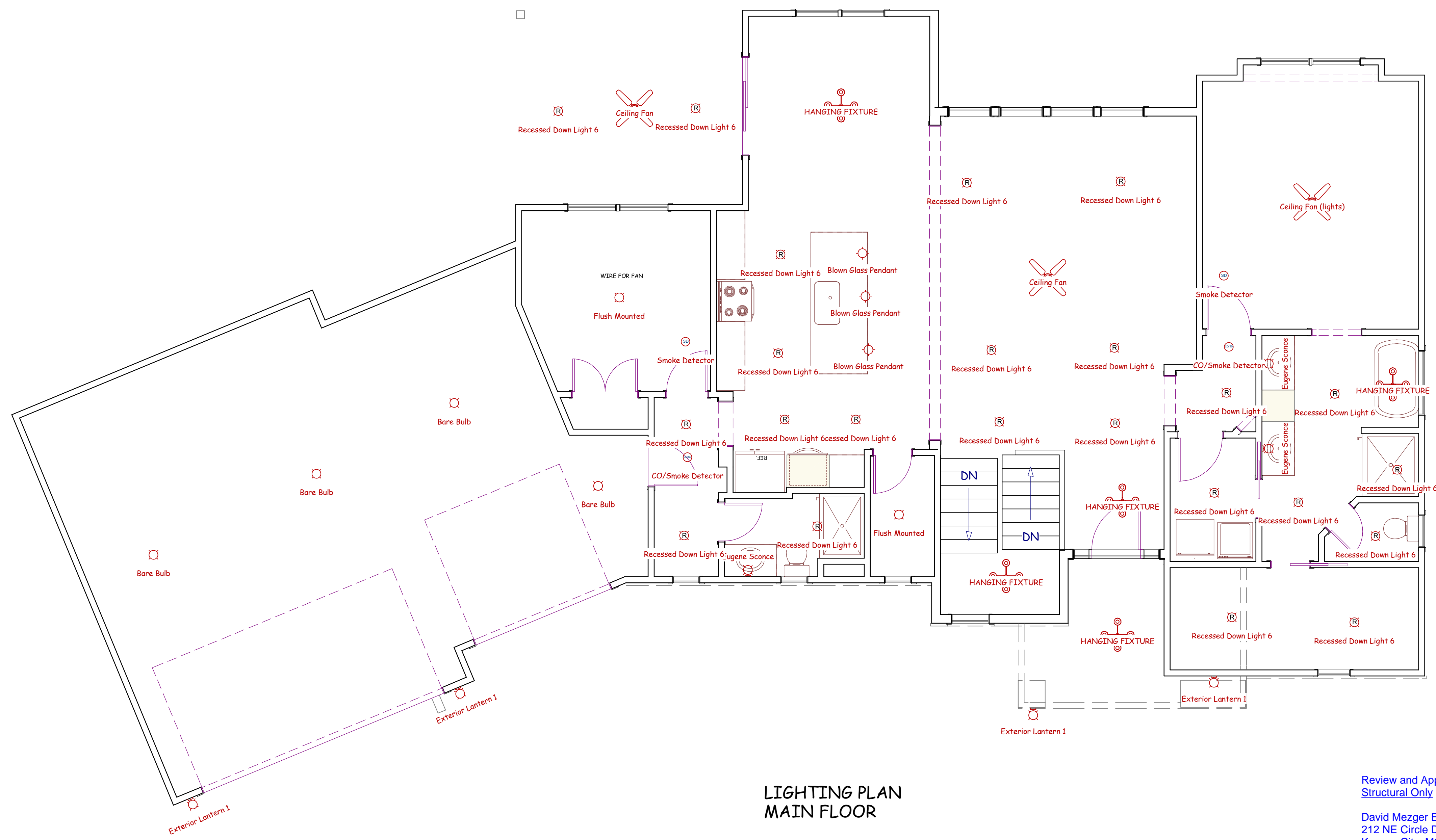
ELEVATE DESIGN & BUILD
LOT 84 HOOK FARMS
2112 SW HARVEST MOON LOOP
LEE SUMMIT MO

SCALE
1/4" = 1'-0"

DATE
11-24-21

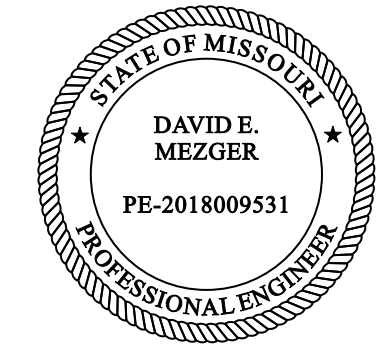
PLAN NO.
3654

SHEET NO.
6 OF 8



LIGHTING PLAN
MAIN FLOOR

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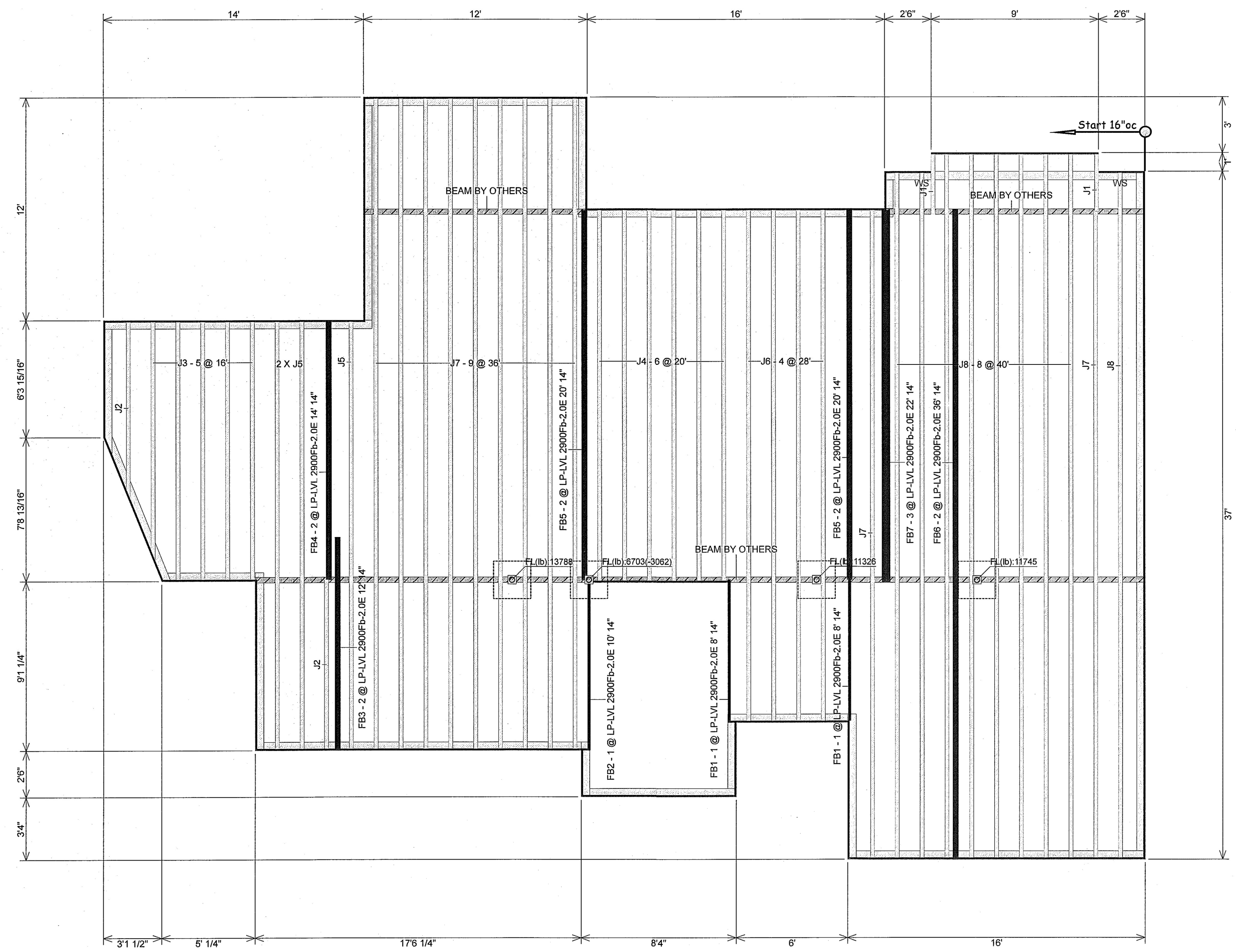
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LOT 84 HOOK FARMS
2112 SW HARVEST MOON LOOP
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
11-24-21

PLAN NO.
3654

SHEET NO.
7 OF 8



GENERAL NOTES

1. FLOOR JOISTS TO BE 14" LPI20 PLUS @ 16" O.C. TYP. UNLESS OTHERWISE NOTED
2. ALL BLOCKING PER STRUCTURAL PLAN
3. LOADING TO BE 40 PSF LL - 15 PSF DL

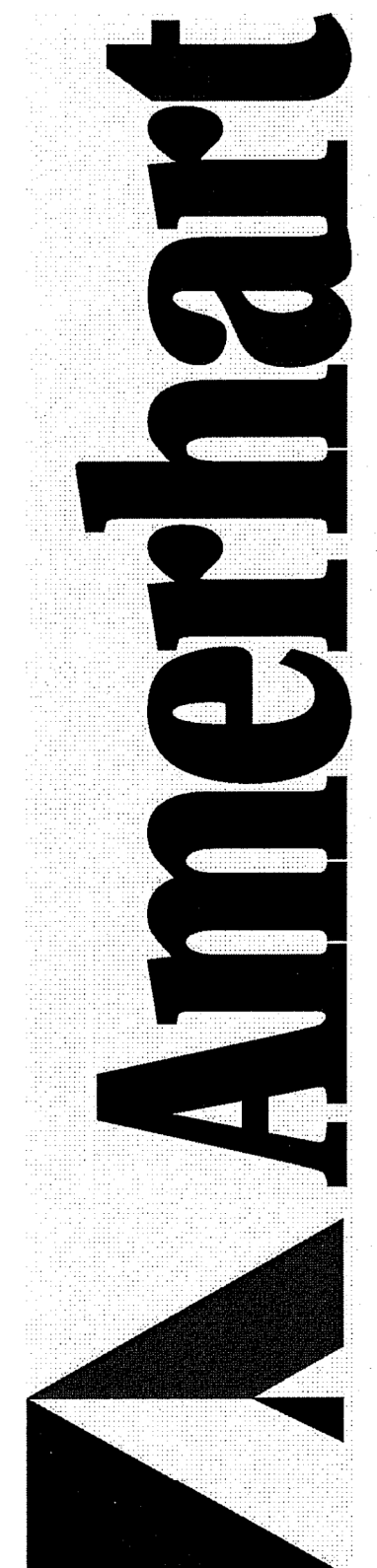
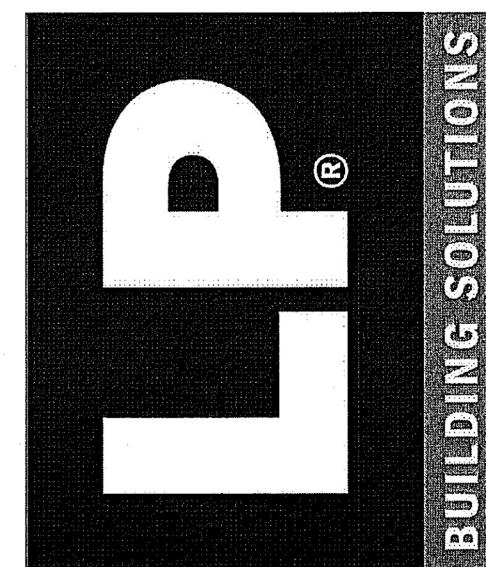
AMERHART

400 MARSHVIEW DRIVE
 SUN PRAIRIE, WI 53590
 1-800-879-7123
 1-608-834-2253

ADDITIONAL NOTES

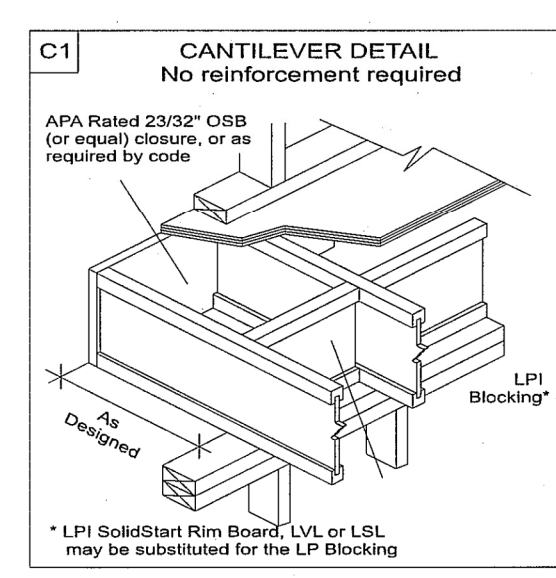
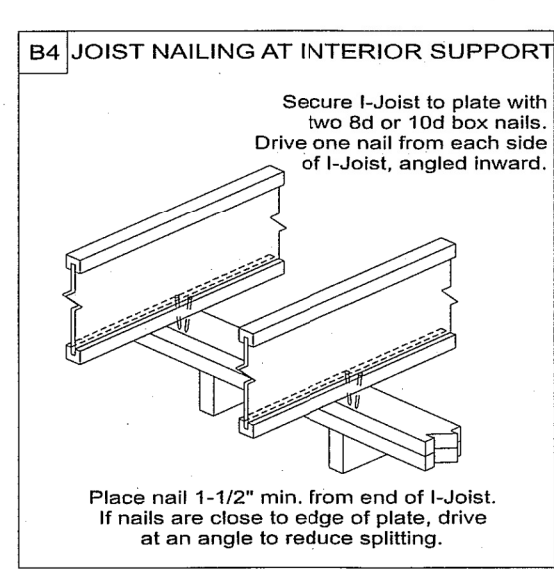
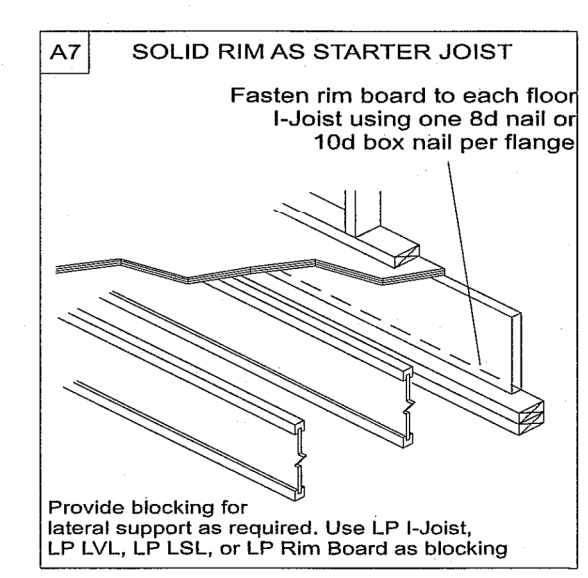
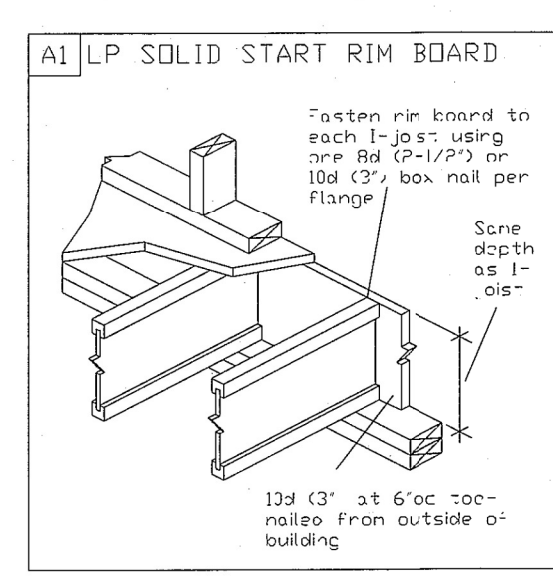
1. ALWAYS READ PRODUCT BROCHURE BEFORE INSTALLATION OF EWP PRODUCTS.
2. REFER TO HOLE CHARTS PRIOR TO DRILLING PRODUCT.
3. THIS DOCUMENT IS INTENDED SOLELY AS A REPLACEMENT PLAN. IT IS TO BE REVIEWED BY THE ENGINEER OF RECORD AND MUST MEET HIS/HER APPROVAL PRIOR TO INSTALLATION OF OUR PRODUCT.
4. THIS DOCUMENT IS NOT TO BE USED AS A REPLACEMENT FOR YOUR ORIGINAL STRUCTURAL PLANS.
5. LAYOUT, QUANTITY AND LENGTH TO BE VERIFIED BY CONTRACTOR.

Ground Floor Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J8	LPI 20 Plus	2.5	14			9	40-0-0
J7	LPI 20 Plus	2.5	14			11	36-0-0
J6	LPI 20 Plus	2.5	14			4	28-0-0
J5	LPI 20 Plus	2.5	14			3	24-0-0
J4	LPI 20 Plus	2.5	14			6	20-0-0
J3	LPI 20 Plus	2.5	14			5	16-0-0
J2	LPI 20 Plus	2.5	14			2	12-0-0
J1	LPI 20 Plus	2.5	14			2	4-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	LP APA Rated OSB 1.125 X 14	1.125	14			18	12-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB6	LP-LVL 2900Fb-2.0E	1.75	14	1	2	2	36-0-0
FB7	LP-LVL 2900Fb-2.0E	1.75	14	1	3	3	22-0-0
FB5	LP-LVL 2900Fb-2.0E	1.75	14	2	2	4	20-0-0
FB4	LP-LVL 2900Fb-2.0E	1.75	14	1	2	2	14-0-0
FB3	LP-LVL 2900Fb-2.0E	1.75	14	1	2	2	12-0-0
FB2	LP-LVL 2900Fb-2.0E	1.75	14			1	10-0-0
FB1	LP-LVL 2900Fb-2.0E	1.75	14			2	8-0-0



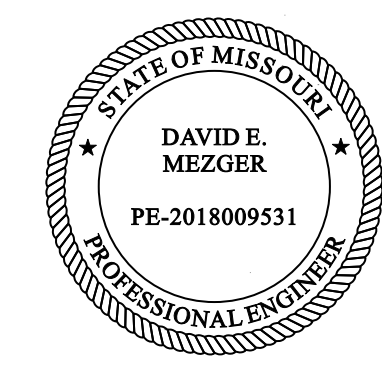
BUILD IN ACCORDANCE WITH
 2018 INTERNATIONAL
 RESIDENTIAL CODE AND
 LOCAL CODES.

ELEVATE DESIGN & BUILD
 LOT 84 HOOK FARMS
 2112 SW HARVEST MOON LOOP
 LEE SUMMIT MO



Review and Approval
 Structural Only

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



Project	TL21116ATH
Created	August 05, 2021
Designer	Thomas Hamrick
Layout Name	
Dealer	TEAGUE LUMBER
Revised	August 05, 2021

SCALE
 1/4" = 1-0

DATE
 11-24-21

PLAN NO.
 3654

SHEET NO.