

PLANS AND CONSTRUCTION TO BE IN ACCORDANCE WITH 2018 IRC AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MO

ROOF PITCH: 7/12 SIDE TO SIDE; 6/12 FRONT TO BACK 12" SOFFITS 8" FASCIA 6" RAKES

HOUSE SQ. FT.

MAIN FLOOR: 1729 SQ. FT.

GARAGE: 652 SQ. FT.

COVERED PATIO: 186 SQ. FT.

DECK 0 SQ. FT.

FINISHED LOWER LEVEL: 0 SQ. FT.

UNFINISHED LOWER LEVEL: 1729 SQ. FT.





4805 NE JAMESTOWN DR. LEE'S SUMMIT, MO



To the best of my knowledge these plans are drawn to owner's and' or builder's design and specifications. The solely responsible and liable for the content and origin plans. Any changes made on them after prints are mat the owner's and, or builder's expense and responsicontractor shall verify all dimensions and enclosed dramaker of these plans is not an architect or engineer are errors and originality once construction has begun. Whas been made in the preparation of this plan to avoid maker can not guarantee against human error. The cojob must check all dimensions and other details prior than the solely responsible thereafter.

BUILDING CONTRACTOR/HOME OWNER
TO REVIEW AND VERIFY ALL DIMENSIONS,
SPECS, AND CONNECTIONS BEFORE
CONSTRUCTION BEGINS.
ELECTRICAL SYSTEM CODE: SEC.E3401
MECHANICAL SYSTEM CODE: SEC.M1201
PLUMBING SYSTEM CODE: SEC.P2501

MERRIFIELD
MONTICELLO 117
ELEVATIONS
SCALE: 1/4" = 1'-0"

PANAL SIDING FRONT RETURNS SIDES AND BACK, LP PRECISION PANEL SIDING 7/16" MUST BE INSTALLED WITH ITS LONG DIMISION ORIENTED VERTICALLY.

FASTENER SPACING (INCHES O.C.) 6" EDGES AND 12" IN THE FIELD

FASTER PENETRATION INTO STUD MIN, 1-1/2"

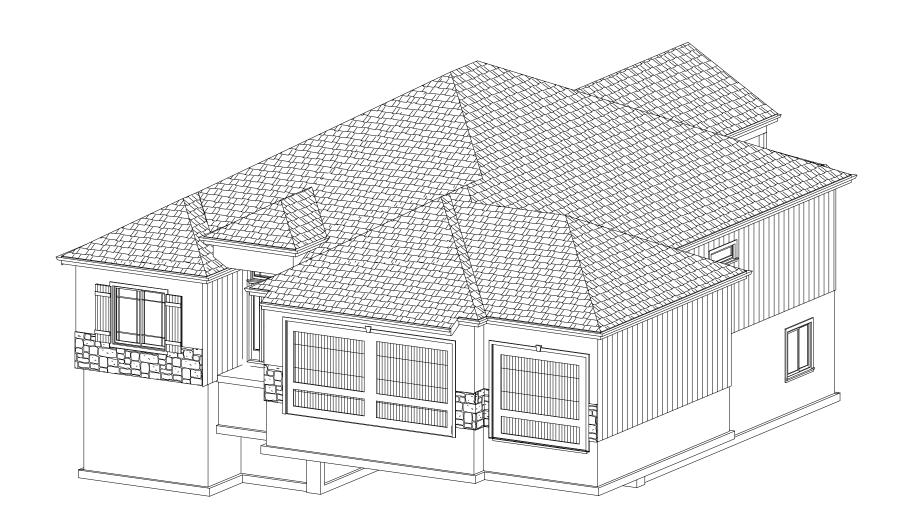
FASTENER MUST HAVE A MINIMUM HEAD DIAMETER OF 0.297 INCH, A MINIMUM SHAFT DIAMETER OF 0.113 INCH AND A MINIMUM LENGTH OF 2-1/2" INCHES

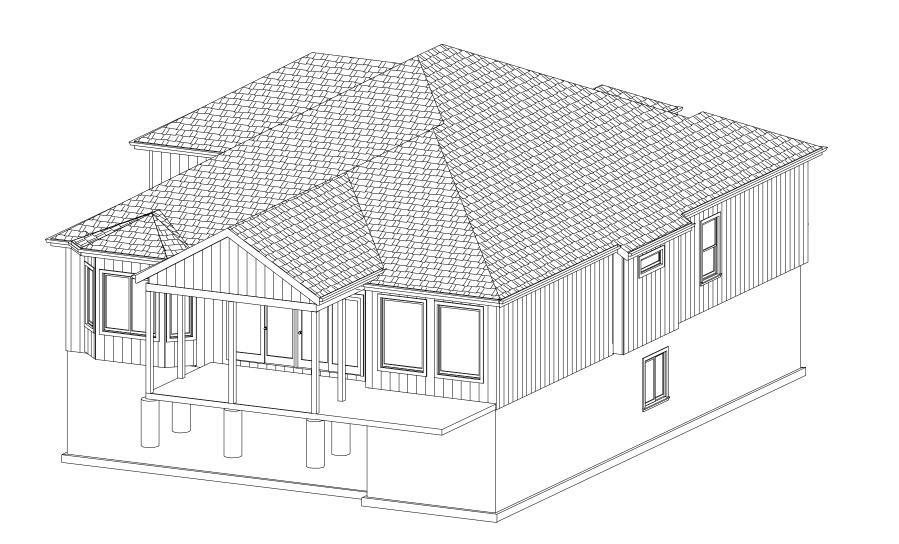
OSB 7/16" UNDER STUCCO AND STONE ON FRONT

FASTENER SPACING (INCHES O.C.) 6" EDGES AND 12" IN THE FIELD

FASTER PENETRATION INTO STUD MIN. 1-1/2"

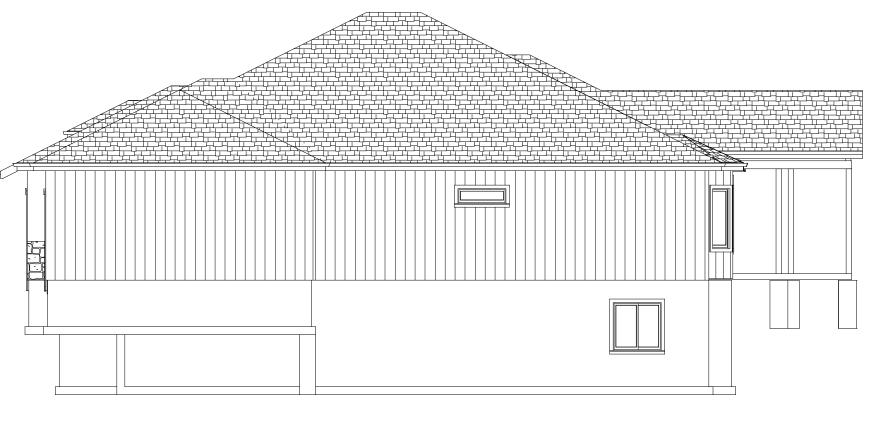
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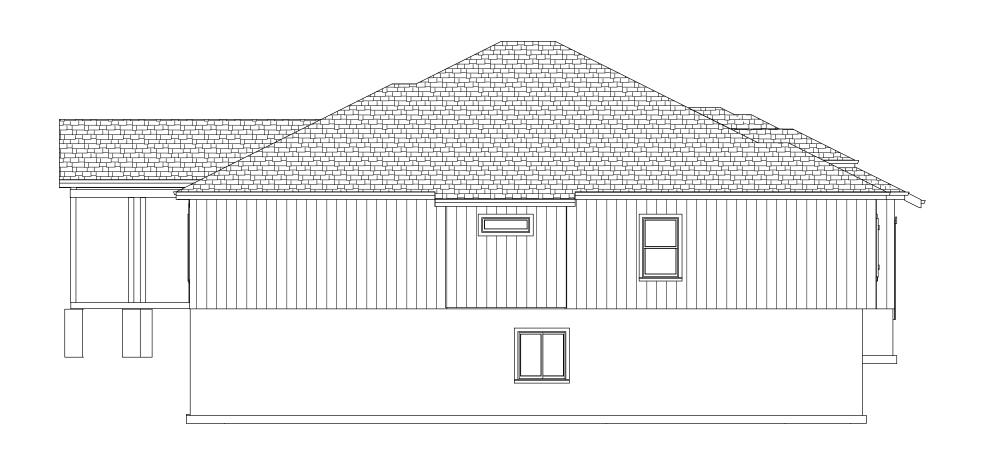




BACK



RIGHT SIDE



LEFT SIDE



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LEE'S SUMMIT, MISSOURI

## **Combustion Air Calculations**

# 90% Efficient Furnace so Combustion Air Calculations are not applicable.

#### CONCRETE

Concrete strength shall comply with the following minimum strength requirements at 28 days

- 2,500 psi for basements floor slabs on undisturbed grade.
- 3,000 psi for footings, foundation walls, and other vertical concrete.
- 3,500 psi for carport and garage floor slabs on undisturbed grade.
  3,500 psi for structural floor slabs.

Concrete shall be 6% (+/- 1%) air-entrained for garage slabs and for all locations footings, walls or flatwork where exposed to weather. Rebar shall be minimum 40 ksi unless noted otherwise.

1. DWELLING / GARAGE OPENINGS BETWEEN GARAGE AND SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS SHALL BE EQUIPPED WITH SOLID WOOD OR STELL 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 WITH AIR INFILTRATION AT A RATE OF LESS THAN 3 AIR CHANGES PER HOUR ( AT ACH50 STANDARD 0 R303.4

3. CARBON MONOXIDE DETECTORS REQUIRED 9 R3150

4. STEEL COLUMNS SHALL BE MINIMUM SCHEDULE 40 R407.3

5. DECK LEDGER ATTACHMENT TO HOUSE SHALL BE PER TABLES 507.2 AND 507.2.1

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. CAN 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 N1103.2.3

16. CERTAIN HOT WATER PIPES SHALL BE INSULATED N1103.4

17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR

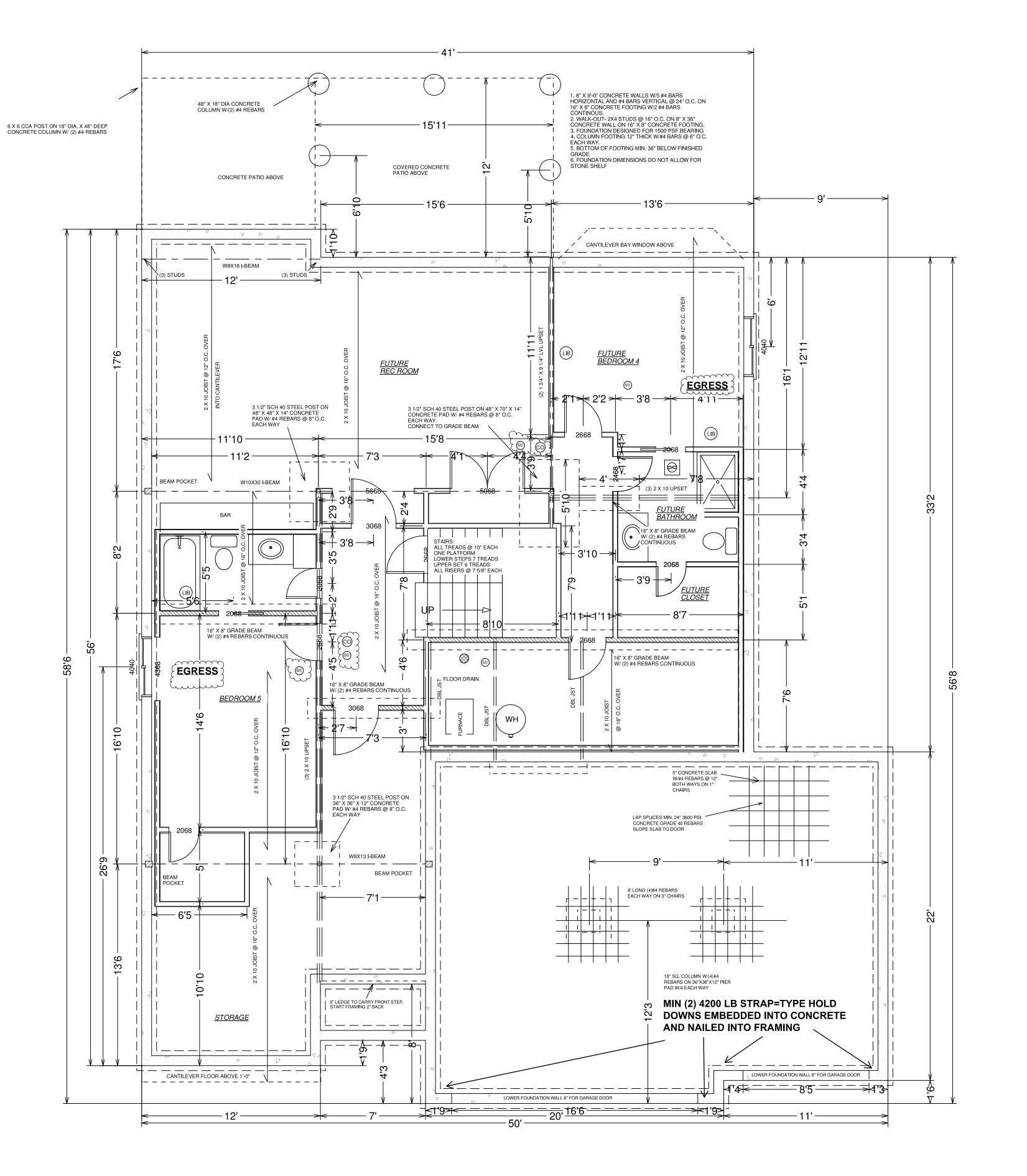
18. MAKEUP AIR SYSTEM REQUIRED FOR KITHCHEN EXHAUST HOODS THAT EXCEED 400 CFM M1503.4

19. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL (INCLUDING THE WALL BETWEEN THE HOUSE AND GARAGE) SHALL NOT BE USED AS RETURN AIR PLENUMS (UNLESS THE REQUIRED INSULATION AND AIR BARRIER ARE MAINTAINED) IRC M1601.1.1, #7.5

20. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE MI601.6

21. A CONCRETE- ENCASED GROUNDING ELECTRODE ("UFER" GROUND )
CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE E3608.1

22. COMPLIANCE WITH THE REQUIRMENT AND SHOW CONNECTION AS NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR UPLIFT PER IRC 802.11





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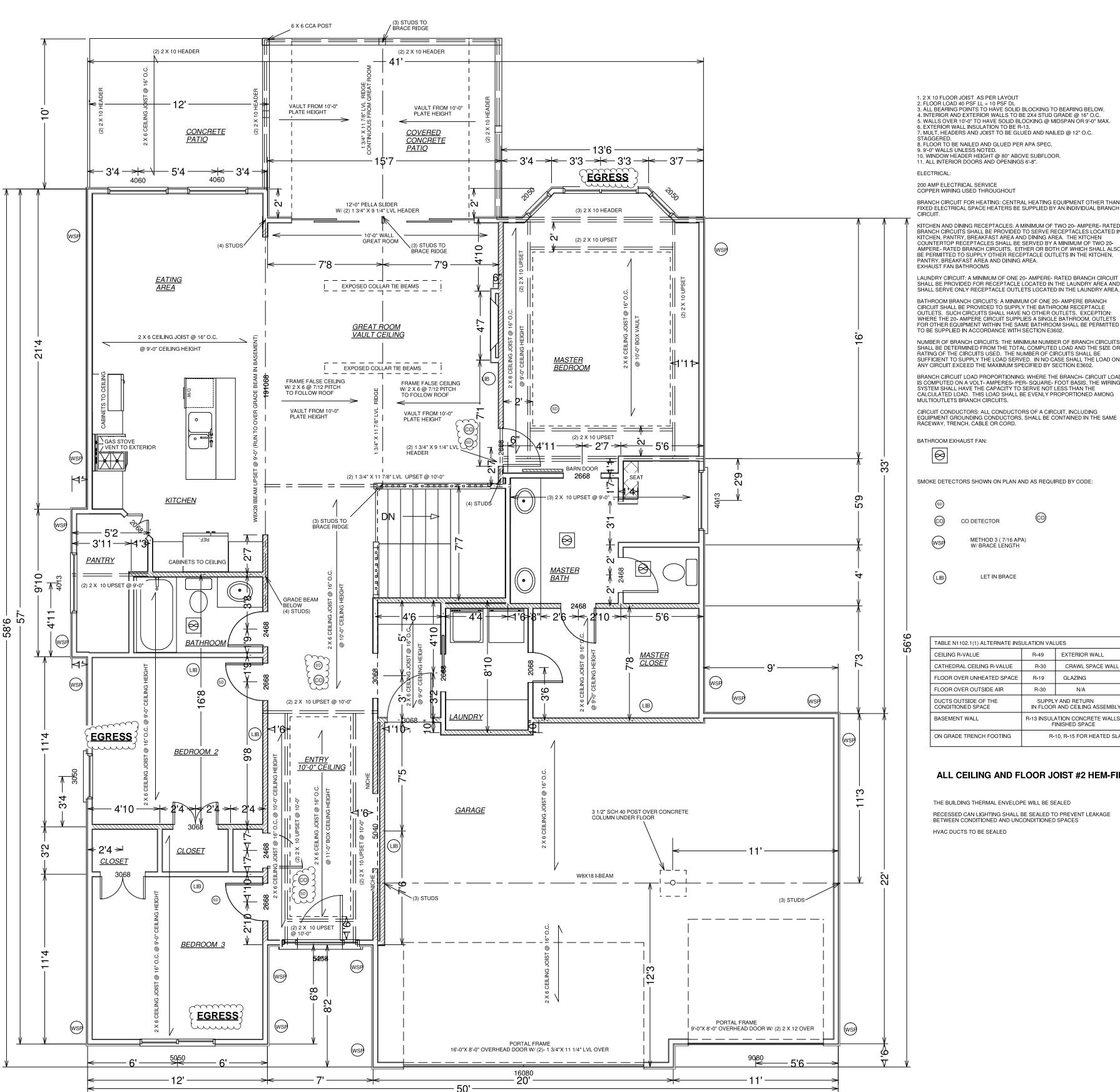
RELEASE FOR
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LEE'S SUMMIT, MISSOURI

Dave Richards Homebuildin

MERRIFIELD MONTICELLO 11

FOUNDATION

ELECTRICAL SYSTEM CODE: SEC.E3401 MECHANICAL SYSTEM CODE: SEC.M1201 PLUMBING SYSTEM CODE: SEC.P2501



1.2 X 10 FLOOR JOIST AS PER LAYOUT 1. 2 X TO FLOOR JOIST AS PER LAYOUT
2. FLOOR LOAD 40 PSF LL = 10 PSF DL
3. ALL BEARING POINTS TO HAVE SOLID BLOCKING TO BEARING BELOW.
4. INTERIOR AND EXTERIOR WALLS TO BE 2X4 STUD GRADE @ 16" O.C.
5. WALLS OVER 10"-0" TO HAVE SOLID BLOCKING @ MIDSPAN OR 9"-0" MAX.
6. EXTERIOR WALL INSULATION TO BE R-13.
7. MULT. HEADERS AND JOIST TO BE GLUED AND NAILED @ 12" O.C.
STAGGERED. STAGGERED. 8. FLOOR TO BE NAILED AND GLUED PER APA SPEC. 9. 9-0" WALLS UNLESS NOTED. 10. WINDOW HEADER HEIGHT @ 80" ABOVE SUBFLOOR. 11. ALL INTERIOR DOORS AND OPENINGS 6'-8".

200 AMP ELECTRICAL SERVICE COPPER WIRING USED THROUGHOUT

BRANCH CIRCUIT FOR HEATING: CENTRAL HEATING EQUIPMENT OTHER THAN FIXED ELECTRICAL SPACE HEATERS BE SUPPLIED BY AN INDIVIDUAL BRANCH CIRCUIT.

KITCHEN AND DINING RECEPTACLES: A MINIMUM OF TWO 20- AMPERE- RATED BRANCH CIRCUITS SHALL BE PROVIDED TO SERVE RECEPTACLES LOCATED IN KITCHEN, PANTRY, BREAKFAST AREA AND DINING AREA. THE KITCHEN COUNTERTOP RECEPTACLES SHALL BE SERVED BY A MINIMUM OF TWO 20-AMPERE- RATED BRANCH CIRCUITS, EITHER OR BOTH OF WHICH SHALL ALSO BE PERMITTED TO SUPPLY OTHER RECEPTACLE OUTLETS IN THE KITCHEN, PANTRY, BREAKFAST AREA AND DINING AREA. EYHALIST FAN BATHROOMS EXHAUST FAN BATHROOMS

SHALL BE PROVIDED FOR RECEPTACLE LOCATED IN THE LAUNDRY AREA AND SHALL SERVE ONLY RECEPTACLE OUTLETS LOCATED IN THE LAUNDRY AREA. BATHROOM BRANCH CIRCUITS: A MINIMUM OF ONE 20- AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE BATHROOM RECEPTACLE OUTLETS. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. EXCEPTION: WHERE THE 20- AMPERE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED IN ACCORDANCE WITH SECTION E3602.

NUMBER OF BRANCH CIRCUITS: THE MINIMUM NUMBER OF BRANCH CIRCUITS SHALL BE DETERMINED FROM THE TOTAL COMPUTED LOAD AND THE SIZE OR RATING OF THE CIRCUITS USED. THE NUMBER OF CIRCUITS SHALL BE SUFFICIENT TO SUPPLY THE LOAD SERVED. IN NO CASE SHALL THE LOAD ON ANY CIRCUIT EXCEED THE MAXIMUM SPECIFIED BY SECTION E3602. BRANCH CIRCUIT LOAD PROPORTIONING: WHERE THE BRANCH- CIRCUIT LOAD IS COMPUTED ON A VOLT- AMPERES- PER- SQUARE- FOOT BASIS, THE WIRING SYSTEM SHALL HAVE THE CAPACITY TO SERVE NOT LESS THAN THE CALCULATED LOAD. THIS LOAD SHALL BE EVENLY PROPORTIONED AMONG MULTIOUTLETS BRANCH CIRCUITS.

CIRCUIT CONDUCTORS: ALL CONDUCTORS OF A CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTORS, SHALL BE CONTAINED IN THE SAME RACEWAY, TRENCH, CABLE OR CORD.

BATHROOM EXHAUST FAN:

SMOKE DETECTORS SHOWN ON PLAN AND AS REQUIRED BY CODE:

CO DETECTOR

METHOD 3 ( 7/16 APA) W/ BRACE LENGTH

LET IN BRACE

TABLE N1102.1(1) ALTERNATE INS	ULATION VAL	UES	
CEILING R-VALUE	R-49	EXTERIOR WALL	R-13
CATHEDRAL CEILING R-VALUE	R-30	CRAWL SPACE WALL	R-19
FLOOR OVER UNHEATED SPACE	R-19	GLAZING	< 0.40
FLOOR OVER OUTSIDE AIR	R-30	N/A	
DUCTS OUTSIDE OF THE CONDITIONED SPACE		Y AND RETURN R AND CEILING ASSEMBLY	R-8 R-6
BASEMENT WALL	R-13 INSULATION CONCRETE WALLS ADJACENT TO FINISHED SPACE		
ON GRADE TRENCH FOOTING	R-10, R-15 FOR HEATED SLAB		

### ALL CEILING AND FLOOR JOIST #2 HEM-FIR OR BETTER

THE BUILDING THERMAL ENVELOPE WILL BE SEALED RECESSED CAN LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES



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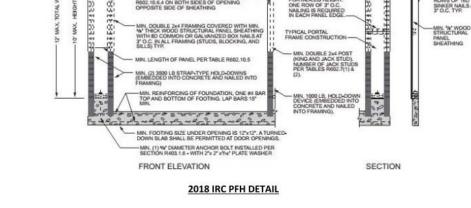
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MERRIFIELD MONTICELLO 117

FIRST FLOOR

Dave Richards Homebuilding,



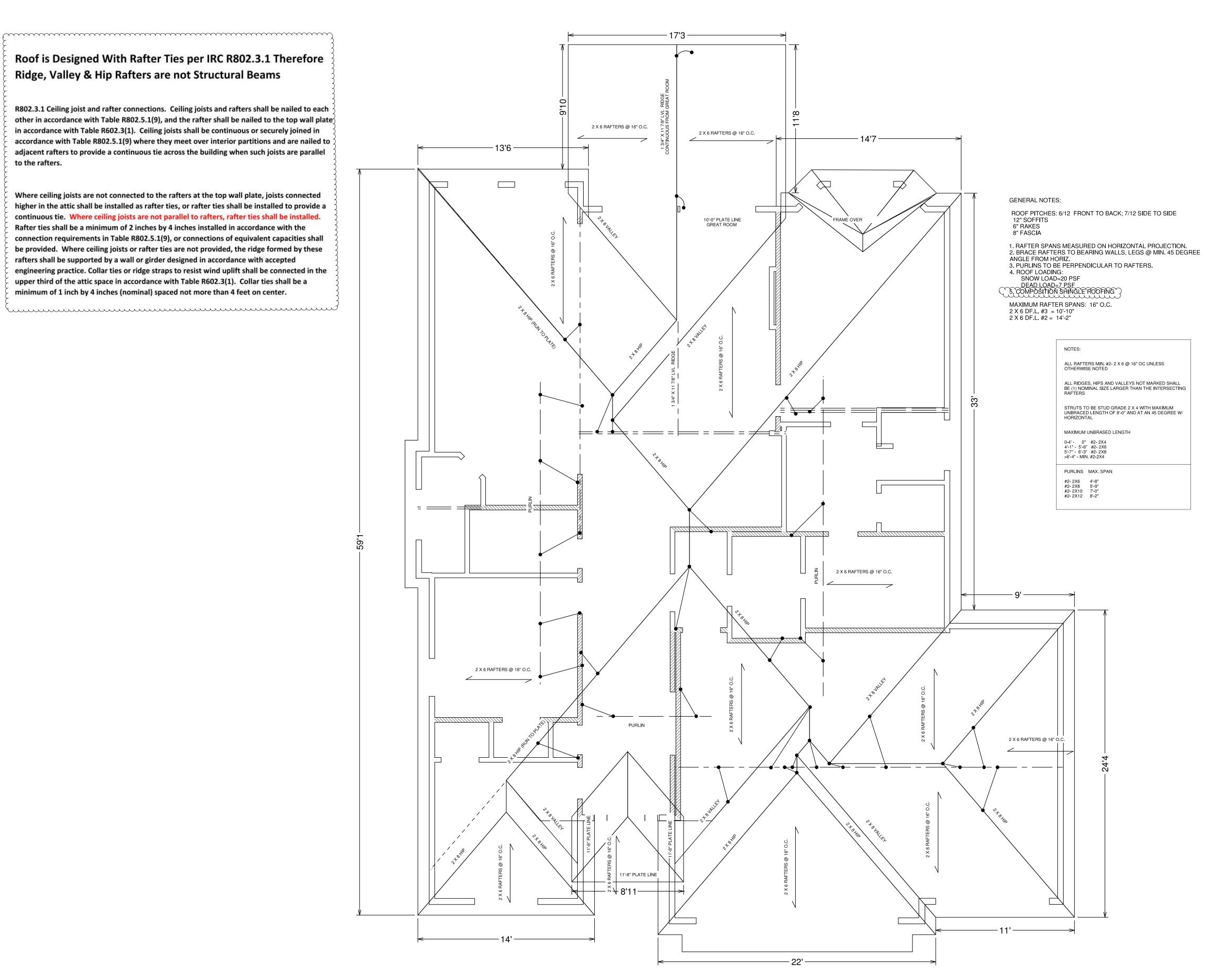
EXTENT OF HEADER WITH SINGLE PORTAL FRAME (ONE BRACED WALL PANEL) 2'-18" FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL

IN, 3"x11"," NET HEADER STEEL HEADER PROHIBITE "SPACER IS USED, PLACE ON BACK-SIDE OF HEAD

## Roof is Designed With Rafter Ties per IRC R802.3.1 Therefore Ridge, Valley & Hip Rafters are not Structural Beams

R802.3.1 Ceiling joist and rafter connections. Ceiling joists and rafters shall be nailed to each other in accordance with Table R802.5.1(9), and the rafter shall be nailed to the top wall plate in accordance with Table R602.3(1). Ceiling joists shall be continuous or securely joined in accordance with Table R802.5.1(9) where they meet over interior partitions and are nailed to adjacent rafters to provide a continuous tie across the building when such joists are parallel to the rafters.

Where ceiling joists are not connected to the rafters at the top wall plate, joists connected higher in the attic shall be installed as rafter ties, or rafter ties shall be installed to provide a continuous tie. Where ceiling joists are not parallel to rafters, rafter ties shall be installed. Rafter ties shall be a minimum of 2 inches by 4 inches installed in accordance with the connection requirements in Table R802.5.1(9), or connections of equivalent capacities shall be provided. Where ceiling joists or rafter ties are not provided, the ridge formed by these rafters shall be supported by a wall or girder designed in accordance with accepted engineering practice. Collar ties or ridge straps to resist wind uplift shall be connected in the upper third of the attic space in accordance with Table R602.3(1). Collar ties shall be a minimum of 1 inch by 4 inches (nominal) spaced not more than 4 feet on center.





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MERRIFIELD MONTICELLO 117



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LEE'S SUMMIT, MISSOURI



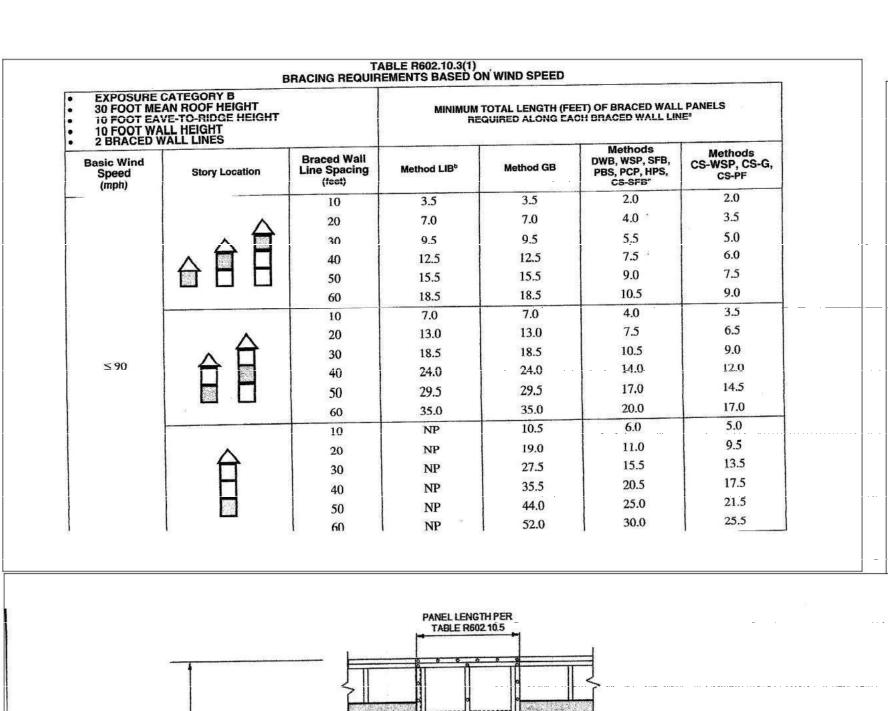


FIGURE R602.10.6.1

METHOD ABW-ALTERNATE BRACED WALL PANEL

TENSION STRAP PER TABLE R602.10.6.4 (ON OPPOSITE SIDE OF SHEATHENG)

NEEDED, PANEL SPLICE EDGES SHALL OCCUR OVER AND BE

NAILED TO COMMON

MIDDLE 24" OF THE PORTAL-LEG HEIGHT. ONE ROW OF 3" O.C.

TYPICAL PORTAL

BLOCKING WITHIN THE

FRAME CONSTRUCTION ---

(KING AND JACK STUD).

NUMBER OF JACK STUDS PER TABLES R602.7(1) &

CONCRETE AND NAILED INTO FRAMING).

SECTION

- EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TWO BRACED WALL PANELS)

MIN. 36" WOOD STRUCTURAL PANEL

SHEATHING ON ONE FACE

MIN. 2 X 4 FRAMING MIN. ---

OF EACH SHOWN FOR CLARITY).

THE WOOD STRUCTURAL PANEL

TO CONCRETE FOOTING OR

CONCRETE FOUNDATION

WALL CONTINUOUS OVER

(2) 1/2" DIAMETER ANCHOR

**BOLTS LOCATED BETWEEN** 

6" AND 12" OF EACH END OF

EXTENT OF HEADER WITH SINGLE PORTAL FRAME

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

MIN, 3"x11"," NET HEADER STEEL HEADER PROHIBITED IF "/" SPACER IS USED, PLACE ON BACK-SIDE OF HEADE

- FASTEN SHEATHING TO HEADER WITH 8D

OPPOSITE SIDE OF SHEATHING

COMMON OR GALVANIZED BOX NAILS IN 3° GRID PATTERN AS SHOWN

MIN, DOUBLE 2x4 FRAMING COVERED WITH MIN.
4x\* THICK WOOD STRUCTURAL PANEL SHEATHING
WITH 8D COMMON OR GALVANIZED BOX NAILS AT
3\* O.C. IN ALL FRAMING (STUDS, BLOCKING, AND
SILLS) TYP.

MIN. LENGTH OF PANEL PER TABLE R602.10.5

IN. (2) 3500 LB STRAP-TYPE HOLD-DOWNS MBEDDED INTO CONCRETE AND NAILED INTO

-MIN. REINFORCING OF FOUNDATION, ONE #4 BAR

Min. FOOTING SIZE UNDER OPENING IS 12'x12', A TURNED-DOWN SLAB SHALL BE PERMITTED AT DOOR OPENINGS.

2018 IRC PFH DETAIL

MIN. (1) W DIAMETER ANCHOR SOLT INSTALLED PER SECTION R403.1.8 - WITH 2'x 2" x\*hx" PLATE WASHER

TOP AND BOTTOM OF FOOTING, LAP BARS 15° MIN.

FRONT ELEVATION

HEADER TO JACK-STUD STRAP PER TABLE \_\_\_\_\_\_ R802.10.6.4 ON BOTH SIDES OF OPENING

(ONE BRACED WALL PANEL)

THE SEGMENT

For SI: 1 inch = 25.4 mm.

BRACED WALLLINE

STRAP-TYPE ANCHORS SHALL BE PERMITTED TO BE ATTACHED OVER

DOUBLE STUDS REQUIRED.

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

STUDS UNDER HEADER AS REQUIRED

8D COMMON OR GALV. BOX NAILS @ 12"

ABW

PFH

CS-WSP, CS-SFB

NP = Not Permitted.

IAL

CS-G

FOR THE FIRST OF 2 STORIES

O.C. AT INTERIOR SUPPORTS

BARS 15" MINIMUM.

ONE #4 BAR TOP AND BOTTOM. LAP

MINIMUM FOOTING SIZE UNDER

OPENING IS 12" X 12". A TURNED-DOWN

TO HEADER WITH 6

PLATE TO HEADER WITH

ROWS OF 16D

SHEATHING

SINKER NALS AT 3' O.C. TYP.

16D SINKERS ->

SLAB SHALL BE PERMITTED AT DOOR

<del>4. //</del>	The same of the sa		FIGURE	CONNECTION CRITERIA®	
METHODS, MATERIAL		MINIMUM THICKNESS		Fasteners	Spacing
	LIB Let-in-bracing  Let-in-bracing  1 × 4 wood or approved metal-straps at 45° to 60° angles for maximum 16" stud spacing	Nummunu	Wood: 2-8d common nails or 3-8d (2 <sup>1</sup> / <sub>2</sub> " long x 0.113" dia.) nails	Wood: per stud and top and bottom plates	
		maximum 16"		Metal strap: per manufacturer	Metal: per manufacturer
	DWB Diagonal wood boards	3/4"(1" nominal) for maximum 24" stud spacing		2-8d (2 <sup>1</sup> / <sub>2</sub> " long × 0.113" dia.) nails or 2 - 1 <sup>3</sup> / <sub>4</sub> " long staples	Per stud
	WSP Wood	3		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
thoc	BV-WSP <sup>e</sup> Wood Structural Panels with Stone or Masonry Veneer (See Section R602.10.6.5)	<sup>7</sup> / <sub>16</sub> "	See Figure R602.10.6.5	8d common $(2^{1}/_{2}" \times 0.131)$ nails	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts
intermittent bracing Memod	SFB Structural fiberboard sheath- ing	1/2" or 25/32" for maximum 16" stud spacing		$1^{1}/_{2}$ " long × 0.12" dia. (for $^{1}/_{2}$ " thick sheathing) $1^{3}/_{4}$ " long × 0.12" dia. (for $^{25}/_{32}$ " thick sheathing) galvanized roofing nails or 8d common ( $2^{1}/_{2}$ " long × 0.131" dia.) nails	3" edges 6" field
termite	GB			Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7"
	Gypsum board	1/2"		Nails or screws per Table R702.3.5 for interior locations	edges (including top and bottom plates) 7" field
	PBS Particleboard sheathing (See Section R605)	<sup>3</sup> / <sub>8</sub> " or <sup>1</sup> / <sub>2</sub> " for maximum 16" stud spacing		For ${}^3/_8$ ", 6d common (2" long × 0.113" dia.) nails For ${}^1/_2$ ", 8d common (2"/ <sub>2</sub> " long × 0.131" dia.) nails	3" edges 6" field
	PCP Portland cement plaster	See Section R703.6 for maximum 16" stud spacing		1'/2" long, 11 gage, 7/16" dia. head nails or 7/8" 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 11/2" penetration into studs	4" edges 8" field
	ABW Alternate braced wall	3/8"		See Section R602.10.6.1	See Section R602.10.6.1

		MANAGEMENT THROUNESS	SS FIGURE	CONNECTION	CRITERIA*
ı	METHODS, MATERIAL	MINIMUM THICKNESS		Fasteners	Spacing
Memods	PFH Portal frame with hold-downs	3/8"		See Section R602.10.6.2	See Section R602.10.6.2
Intermittent Bracing Methods	PFG Portal frame at garage	<sup>7</sup> / <sub>16</sub> "		See Section R602.10.6.3	See Section R602.10.6.3
Continuous Sheathing Methods	CS-WSP		Exterior sheathing per Table R602.3(3)	6" edges 12" field	
	Continuously sheathed wood structural panel	<sup>3</sup> / <sub>8</sub> "		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
	CS-G <sup>b,c</sup> Continuously sheathed wood structural panel adjacent to garage openings	3/8"		See Method CS-WSP	See Method CS-WSP
ons Sheat	CS-PF Continuously sheathed portal frame	<sup>7</sup> / <sub>16</sub> "		See Section R602.10.6.4	See Section R602.10.6.4
Continu	CS-SFB <sup>d</sup> Continuously sheathed structural fiberboard	"/2" or <sup>25</sup> / <sub>32</sub> " for maximum 16" stud spacing		$1^{1}/_{2}^{"}$ long × 0.12" dia. (for $^{1}/_{2}$ " thick sheathing) $1^{3}/_{4}$ " long × 0.12" dia. (for $^{25}/_{32}$ " thick sheathing) galvanized roofing nails or 8d common ( $2^{1}/_{2}$ " long × 0.131" dia.) nails	3" edges 6" field

b. Applies to panels next to garage door opening when supporting gable end wall or roof load only. May only be used on one wall of the garage. In seisme
Design Categories $D_0$ , $D_1$ and $D_2$ roof covering dead load may not exceed 3 psf.
c. Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R502.5(1). A full height clear opening shall not
be permitted adjacent to a Method CS-G panel.
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MONTIC

Inc.

Homebuilding,

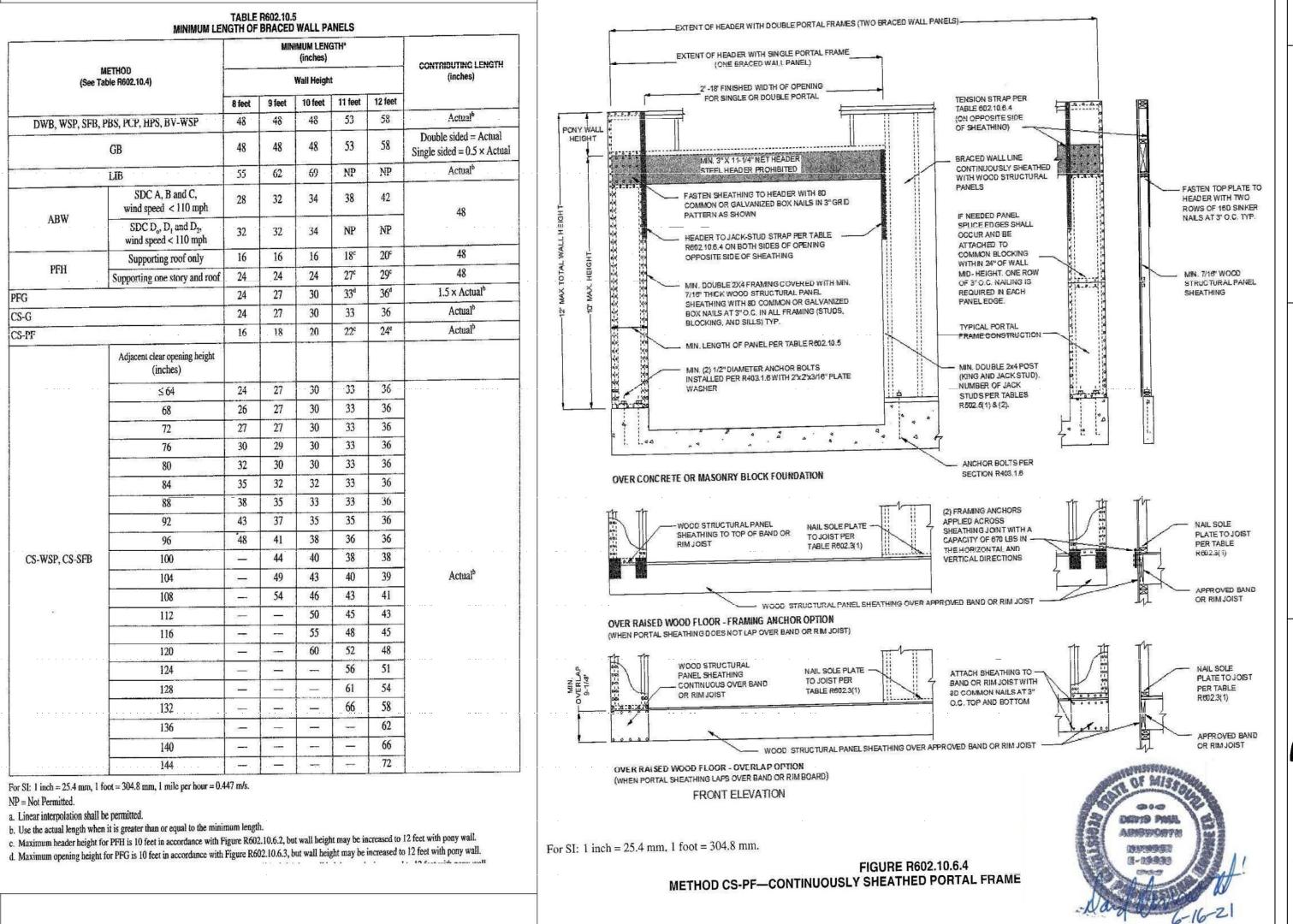
Richards

Dave

d. Method CS-SPB does not apply in Seismic Design Categories D<sub>m</sub>, D<sub>1</sub>, and D<sub>2</sub>, and in areas where the wind speed of

EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TWO BRACED WALL PANELS) EXTENT OF HEADER WITH SINGLE PORTAL FRAME (ONE BRACED WALL PANEL) 2' -18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL TENSION STRAP PER TABLE 602.10.6.4 (ON OPPOSITE SIDE OF SHEATHING) PONY WALL BRACED WALLLINE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL STEEL HEADER PROHIBITED - FASTEN TOP PLATE TO FASTEN SHEATHING TO HEADER WITH 8D HEADER WITH TWO COMMON OR GALVANIZED BOX NAILS IN 3"GRID ROWS OF 160 SINKER PATTERN AS SHOWN IF NEEDED PANEL SPLICE EDGES SHALL OCCUR AND BE HEADER TO JACK-STUD STRAP PER TABLE R602 10.6.4 ON BOTH SIDES OF OPENING OPPOSITE SIDE OF SHEATHING COMMON BLOCKING WITHIN 24" OF WALL . MBN. 7/16" WOOD MID-HEIGHT. ONE ROW OF 3" O.C. NAILING IS STRUCTURALPANEL MIN. DOUBLE 2X4 FRAMING COVERED WITH MIN. 7/16" THICK WOOD STRUCTURAL PANEL REQUIRED IN EACH SHEATHING WITH 8D COMMON OR GALVANIZED PANELEDGE. BOX NAILS AT 3"O.C. IN ALL FRAMING (STUDS, BLOCKING, AND SILLS) TYP. TYPICAL PORTAL FRAME CONSTRUCTION \_\_\_ MIN. LENGTH OF PANEL PER TABLE R602.10.5 - MIN. DOUBLE 2x4 POST — MIN. (2) 1/2" DIAMETER ANCHOR BOLTS (KING AND JACK STUD). INSTALLED PER R403.1.8 WITH 2'x2'x3/16" PLATE NUMBER OF JACK STUDS PER TABLES R502.5(1) & (2). ANCHOR BOLTS PER SECTION R403.1.8 OVER CONCRETE OR MASONRY BLOCK FOUNDATION (2) FRAMING ANCHORS APPLIED ACROSS - NAIL SOLE -WOOD STRUCTURAL PANEL NAIL SOLE PLATE -SHEATHING JOINT WITH A SHEATHING TO TOP OF BAND OR PLATE TO JOIST PER TABLE TOJOISTPER CAPACITY OF 670 LBS IN -RIMJOIST THE HORIZONTAL AND R602.3(1) VERTICAL DIRECTIONS - WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST -OR RIMJOIST OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST) WOOD STRUCTURAL NAIL SOLE PLATE -ATTACH SHEATHING TO -PANEL SHEATHING PLATE TO JOIST TO JOIST PER BAND OR RIM JOIST WITH \_ CONTINUOUS OVER BAND PER TABLE TABLE R602.3(1) 8D COMMON NAILS AT 3" O.C. TOP AND BOTTOM OR RIMJOIST R602.3(1) 0.04.20 APPROVED BAND WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST OR RIMJOIST OVER RAISED WOOD FLOOR - OVERLAP OPTION (WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM BOARD) FRONT ELEVATION 900 DOTTO PAGE ASSESSES For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. DELETE SEE 图-199999 FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/01/2021