

56'-0" 11'-4" 17'-4" -FULL HEIGHT CONTINUOUS 6 x 6 CEDAR POST ON SIMPSON ABU66 POST BASE, TYP 5'-8" 8'-11" 8'-5" 5'-8" (3) - 2860 SH @ 8' H. -(2) #2-2x10 CONT/NUOUS 28 x 68 .V. PATIO ∕TYP. (2) 1³/₄" x 9-1/4" LVL (3) - 3066 FIX BWL [·] FLUSH @ 8¦ H. \mathbf{R} R315 (2) #2-2x10 CON —(3)2 x 4 — HVAC BRÉAKFAST 2'-4" PLUMBING CHASE 9' C 10'-6 1/2" 17'-8" GREAT ROOM 9' C FIREPLACE MANTLE OPTIONS- SEE PRICE SUMMARY -WOOD TO CARPET FLOOR LINE -DASHED LINE REPRESENTS 8'-4 1/4" STIAGIR SALVABOVE (2) 1¾"x 9-1/4 " LVL FLUSH CONTINUOUS 2'-8 3/4" 5'5 1/2" 8'-7 1/4" 3'-4" __(2)2 x 4 __ ¥ C(3) 2x4 OPEN RAILING / (2) #2-2x10\ 🕴 FLUSH Ĵ 2x4 -∕≦ CURB STAIR -₩ Herefore A Herefor SYSTEM BALCONY -2'-9"[1] 8' DROP SOFFIT NON-STRUCTURAL COLUMNN-OYER | - (3) 2x4 DINING ROOM OPEN TO HOSE BIBB 2ND FLOOR 9' C -2x6 CONTINUOUS 3'-11" @ Z STUD WALL FULL ⊇ວີ HEIGHT BWL 3 30 x 68 (2) #2-2x10 (2) #2-2x12 CONTINUOUS -(4) 2x4 (4) 2x4 – 54/11/11 //////// TW 3056 SH <u>COVERED PORCH</u> ¹⁰-Z US5'-8 1/4" @ 7' H. 🕇 -END CONDITION #1_24"-ATTIC RETURN PANEL ACCESS (13)(6) #2-2x10 (2) #2-2x10 (2) #2-2x10 8'-1" PLATE FROM-TOP OF 1ST TYP FLOOR DECK 7'-7" 9'-0" 8'-5" /77/ BWL B 2'-0" 5'-6" 5'-10" 3'-4" 2'-8" BWL C 11'-4" 6'-0" 8'-8" 26'-0" 56'-0"

NOTE:

APPLICABLE.

BEARING WALLS.

DETAILS AND NOTES: WITH IRC R310.2. COMPLY WITH SECTION R612.2. 2018 R311.7.5.1). SCHEDULE 40.

THE IRC CHAPTER 11. CONDUCTOR (UFER GROUND).

TABLE N1102.4.1.1).

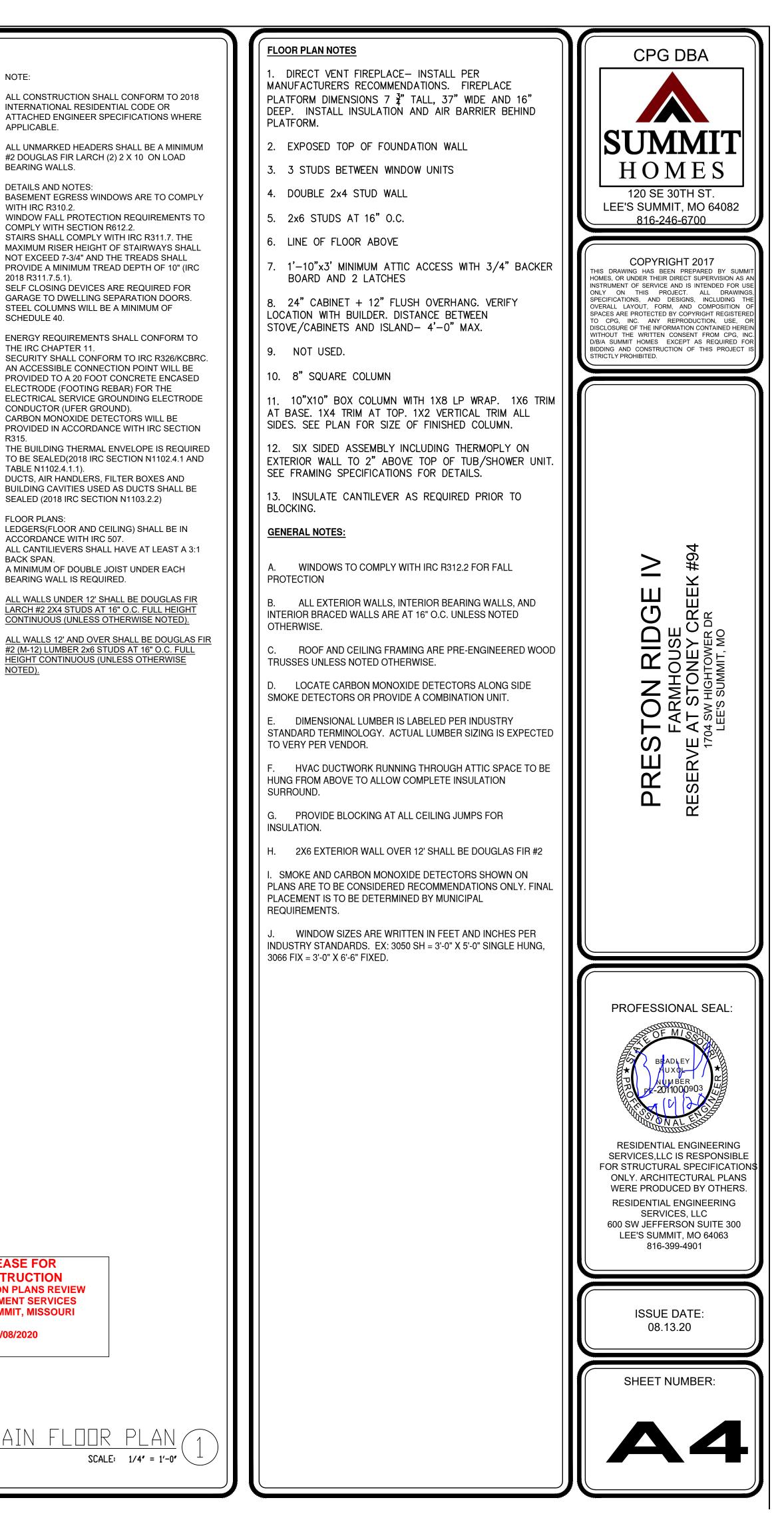
FLOOR PLANS: ACCORDANCE WITH IRC 507. BACK SPAN.

NOTED).

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/08/2020

MAIN FL

) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)									
CEILING ?-∨ALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUÉ	FLOOR R-VALUE		SLAB [®] R-VALUE & DEPTH	CRAWL SPAC⊾ WALL R-VALUE			
49	20 OR 13+5	8/13	19	10/13	10, 2 FT	10/13			



****ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" OC.**

NOTE:

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

DETAILS AND NOTES: BASEMENT EGRESS WINDOWS ARE TO

COMPLY WITH IRC R310.2. WINDOW FALL PROTECTION REQUIREMENTS TO COMPLY WITH

SECTION R612.2. STAIRS SHALL COMPLY WITH IRC R311.7. THE MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7-3/4" AND THE TREADS SHALL PROVIDE A

MINIMUM TREAD DEPTH OF 10" (IRC 2018 R311.7.5.1). SELF CLOSING DEVICES ARE REQUIRED

FOR GARAGE TO DWELLING SEPARATION DOORS. STEEL COLUMNS WILL BE A MINIMUM OF SCHEDULE 40.

ENERGY REQUIREMENTS SHALL CONFORM TO THE IRC CHAPTER 11. SECURITY SHALL CONFORM TO IRC

R326/KCBRC. AN ACCESSIBLE CONNECTION POINT WILL BE PROVIDED TO A 20 FOOT CONCRETE ENCASED ELECTRODE (FOOTING REBAR) FOR THE ELECTRICAL

SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND). CARBON MONOXIDE DETECTORS WILL BE PROVIDED IN ACCORDANCE WITH IRC SECTION R315.

THE BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED(2018 IRC SECTION N1102.4.1 AND TABLE N1102.4.1.1).

DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED (2018 IRC SECTION N1103.2.2)

FLOOR PLANS:

LEDGERS(FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507. ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN. A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED.

ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 STUDS AT " O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2x6 STUDS AT 16" O.C. FULL HEIGHT ONTINUOUS (UNLESS OTHERWISE NOTED).

4'-2" 2'-8" (1)3050 SH EGRESS (2) #2-2 x 10 2'-6" 3'-8" 2'-0" $\overline{\mathbf{O}}$ SEAT SHOWER 24" TEMP GLASS-MIN. HYDRORAIL SHOWER HEAD, -RE: 3/A4 3'_8" <u>BATH #1</u> #2-2 × 4030 9' C (1)-**↓** 1 8 9 5'-2" END CONDITION #1 24"-RETURN PANEL 80 66 _ _ _ _ _ _ _ (1)6'-10" BWL A 4'-0"

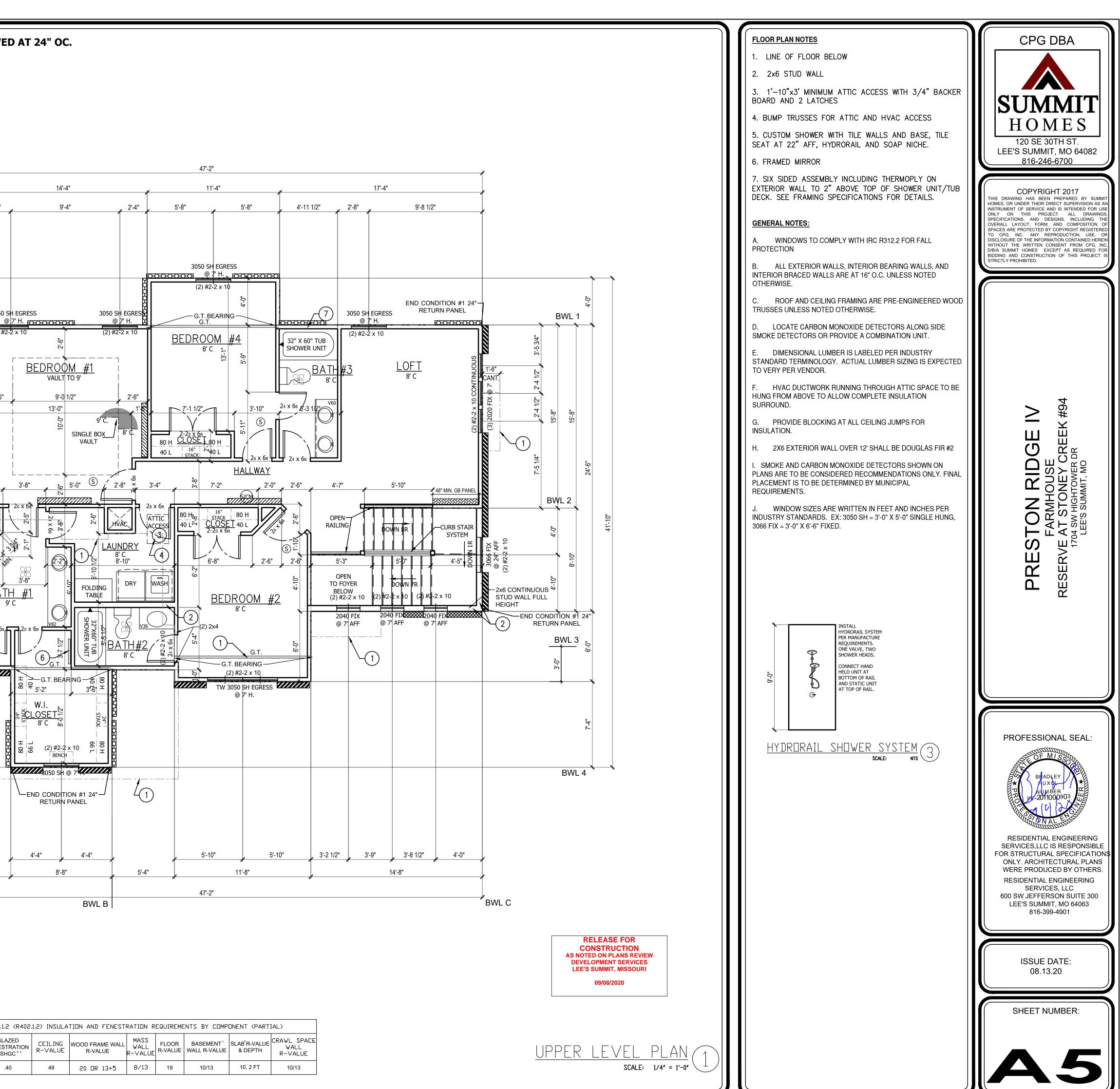
EXTERIOR BRACING CS-WSP PER IRC R602.10 EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS PER IRC R602.10.5.2) INTERIOR BRACING LIB PER IRC R602.10 MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5: 55" - 8' TALL WALL HEIGHT 62" - 9' TALL WALL HEIGHT 69" - 10' TALL WALL HEIGHT EXTERIOR BRACING PFH PER IRC R602.10.5 INTERIOR BRACING GB PER IRC R602.10

BRACING METHODS

CONTINUOUSLY SHEATHED EXTERIOR WALL BRACING 15/32" PANEL THICKNESS OSB WITH 24/0 STRUCTURAL PANEL SPAN RATING. 1-3/8" MIN PEN, 8d FASTENERS AT 6" FOR PANEL EDGES AND 12" IN FIELD. INSTALL BLOCKING AT BASE AND TOP OF WINDOW

INTERIOR LOAD BEARING WALL (EXTERIOR WALLS ARE ASSUMED LOAD BEARING)

	IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)									
CLIMATE ZONE	FENESTRATION U-FACTOR [®]	SKYLIGHT [♭] U-FACTOR	GLAZED FENESTRATION SHGC ^{b, e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE		FLOOR R-VALUE	BASEMENT [°] WALL R-VALUE	SLAB R-VALUE	CRAWL SPAC⊾ WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 OR 13+5	8/13	19	10/13	10, 2 FT	10/13



TRUSS ROOF NOTES: (BY OTHERS) 1) DESIGNED FOR LIGHT ROOF COVERING

TOP CHORD:

LIVE LOAD/SNOW LOAD (PSF): 25 DEAD LOAD (PSF): 10

- BOTTOM CHORD:
- DEAD LOAD(PSF): 10 2) ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS
- SHALL BE MIN. (2) #2 2 x 10 UNLESS OTHERWISE NOTED.
 CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS
- shown as non-load bearing on approved prints.
 MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN
- TO FOUNDATION OR LOAD SUPPORTING MEMBER.
 5) PROVIDE 2x SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.
- 6) ROOF IS ENGINEERED TO COMPLY WITH IRC 802
- = ROOF TRUSS FRAMING DIRECTION
 "G.T." = GIRDER TRUSS LOCATION
- = INTERIOR LOAD BEARING WALL

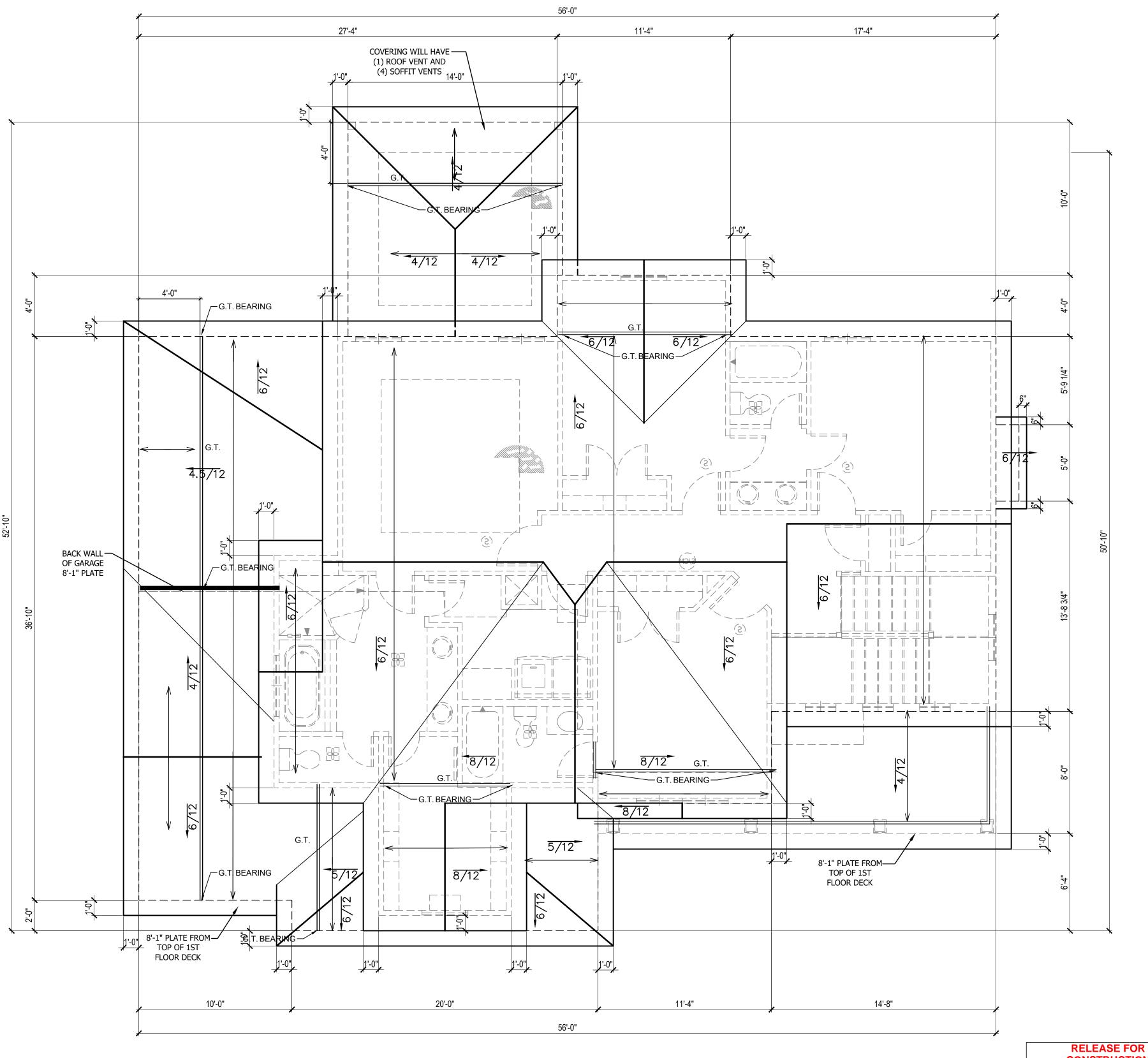
NOTE:

R802.3.1, R802.11.

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

ROOF: ROOF IS DESIGNED FOR 20 PSF SNOW LOAD. WOOD TRUSSES SHALL BE IN ACCORDANCE WITH IRC SECTION R802.10. CEILING JOIST OR RAFTER TIE CONNECTIONS BETWEEN RAFTERS, RIDGE BEAM, REQUIRED COLLAR TIES OR RIDGE STRAPS SHALL COMPLY

WITH DETAILS AND IRC SECTION R802, R802.3,



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

09/08/2020

- PLAN

SCALE: 1/4" = 1'-0"



1. ROOF AND CEILING FRAMING ARE PRE-ENGINEERED ROOF TRUSSES

2. ASPHALT SHINGLES MIN 2/12. FLASH ALL PENETRATIONS AND INTERSECTIONS

3. VENT EACH ENCLOSED ATTIC SPACE. NET AREA OPENING = 1/50TH OF VENTED AREA OR 1/300TH IF 580% OF VENTING NEAR TOP

4. BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE. SEE FRAMING SPECIFICATIONS FOR DETAILS.

5. DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VERY PER VENDOR.

6. HVAC DUCTWORK RUNNING THROUGH ATTIC SPACE TO BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.

7. PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.
8. PROVIDE FOAM INSULATION AT EXTERIOR WHERE MAIN LEVEL ROOFLINE MEETS UPPER LEVEL WALLS.



GENERAL NOTES

PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) WITH AMENDMENTS AS ADOPTED BY THE APPROPRIATE GOVERNING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CHANGES OR DEVIATIONS FROM THE PLAN ARE MADE DURING CONSTRUCTION. THE ENGINEER OF RECORD MAY REQUIRE REVISED DRAWING OR CALCULATIONS AT ITS DISCRETION.

IF DISCREPANCIES ARE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION SHALL APPLY.

LOADING

DEAD		
LIGHT ROOF	10 PSF	
HEAVY ROOF	+10 PSF	(CONCRETE, SLATE, TILE)
ROOF + CEILING (NO STORAGE)	15 PSF	
ROOF + CEILING (STORAGE)	20 PSF	
CEILING JOISTS (STORAGE)	10 PSF	
EXTERIOR BACONIES / DECK	10 PSF	
INTERIOR FLOOR (MAIN FLOOR)	15 PSF	
INTERIOR FLOOR (UPPER FLOORS)	10 PSF	
8" THICK MASONRY WALL	80 PSF	
6" THICK MASONRY WALL	85 PSF	
EXTERIOR LIGHT FRAMED WOOD WALLS	15 PSF	
INTERIOR LIGHT FRAMED WOOD WALLS	10 PSF*	
*(INTERIOR WALLS I	NCLUDED IN	15 PSF DEAD LOAD)
LIVE		

ROOF LIVE LOAD	15 PSF	
FLOOR LIVE LOAD	40 PSF	(HABITABLE)
GARAGE	50 PSF	
STORAGE	20 PSF	(UN-INHABITABLE)
GUARDRAIL		
CONTINUOUS LINEAR	50 PLD	
MAXIMUM POINTLOAD	200 LBS	
SNOW		
GROUND SNOW LOAD	20 PSF	
WIND		

ULTIMATE DESIGN WIND SPEED VELOCITY 115 MPH EXPOSURE CATEGORY

SOIL AND SITE ASSUMPTIONS:

- FOUNDATION DESIGN ASSUME A MINIMUM SOIL BEARING PRESSURE FOR THE SITE OF 2,000 PSF. CONTRACTOR TO VISUALLY INSPECT SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS SW, SP, SM, SC, GM, AND GX AS DEFINED PER IRC TABLE R301.5. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS AND CONTACTING THE ENGINEER OF RECORD.
- PROVIDE A MINIMUM SOIL COVER OF <u>36 INCHES</u> MEASURED FROM THE BOTTOM OF CONCRETE ON ALL FOUNDATIONS.
- ACCESSORY STRUCTURES WITH AN EAVE HEIGHT LESS THAN 10'-0" AND AN AREA LESS THAN 600 FT² MAT PROVIDE A MINIMUM SOIL COVER OF 12 INCHES MEASURED FROM THE BOTTOM OF CONCRETE.
- 4. SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 0.5%.
- 5. LATERAL SOIL PRESSURES
- ACTIVE 30 PSF AT-REST 60 PSF

PASSIVE 150 PSF

FOUNDATION NOTES:

FOUNDATION ANCHORAGE (IRC 403.1.6)

SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDER AT LEAST 7" INTO THE CONCRETE. BOLTS SHALL BE SPACED NO GREATER THAN 6' 0.C. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION, WITH A BOLT PLACED WITHIN 12" AND NOT CLOSER THAN 7 BOLT DIAMETERS, OF THE END OF EACH PLATE SECTION. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE, (NOTE: 7" EMBEDMENT + 1-1/2" SILL PLATE + 3/4" FOR NUT AND WASHER EXCEEDS A 9" LONG BOLT.)

WALL BRACING METHODS PER IRC R602 MAY REQUIRE ADDITIONAL ANCHORAGE.

CONCRETE SLABS PLACED ON FILL MATERIAL WHICH EXCEEDS 24" OF COMPACTED GRANULATED MATERIAL (SAND OR GRAVEL) OR 8" OF EARTH: THIS MAY OCCUR AT GARAGE FLOOR FILLS. OR OVER EXCAVATED AREAS UNDER FLOOR SLABS. THE DESIGN AND INSTALLATION DETAILS IN THIS DOCUMENT (WHERE APPLICABLE BASED ON SIZE AND SPACING LIMITATIONS) MAY BE USED IN LIEU OF PROVIDING A SEPARATE DESIGN. STRUCTURAL SLABS EXCEEDING THE SPANS AND CONDITIONS OF THE APPROVED DETAILS SHALL BE DESIGNED BY A

SLABS AT MAX 4' OVER-DIG ADJACENT TO FOUNDATION WALL: WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4' HORIZONTALLY ADJACENT TO A FOUNDATION WALL, THE STANDARD OVER-DIG DETAIL MAY BE USED IN LIEU OF A COMPLETE STRUCTURAL SLAB. SEE "TYPICAL FOOTING/FOUNDATION WALL/STANDARD SLAB AT MAX 4' OVER-DIG DIAGRAM FOR DETAILS.

VAPOR RETARDER / BARRIER (IRC R506.2.3)

PROFESSIONAL ENGINEER.

A 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED A MINIMUM OF 6" IS REQUIRED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR PREPARED SUBGRADE, (NOT REQUIRED FOR GARAGE SLABS OR DETACHED ACCESSORY BUILDINGS)

FOUNDATION AND LOT GRADING (IRC R401.3)

GRADES SHALL BE SLOPED AWAY FROM THE FOUNDATION A MINIMUM OF 6" IN THE FIRST 10'. ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE, AND PROVIDES FOR POSITIVE SITE DRAINAGE.

IRC R403.1.4

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST
- PROTECTION FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SF OR LESS AND AN EAVE HEIGHT OF 10' OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF 12".

FOOTINGS:

EXTERIOR WALLS, BEARING WALLS, COLUMN AND PIE MASONRY OR CONCRETE FOOTINGS, OR APPROVED IMPOSED LOADS AND SHALL BE SIZED AND REINFORG SHALL BE ENGINEERED DESIGN. FOOTINGS UNDER I THE STRUCTURE AND FROM ONE LEVEL TO THE NEX FOOTINGS AT DIFFERENT LEVELS ENCLOSING USABL JUMPS OR SUPPORT SYSTEMS TO PROVIDE SAFE SU FOOTING/FOUNDATION WALLS/STANDARD SLAB AT M DIAGRAMS FOR MORE DETAIL (PER KC, MO STANDAR

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHOULD CONFC RESIDENTIAL CODE.
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE R402.2.
- 3. CONCRETE MIX TO UTILIZE A MAXIMUM WATER-C APPLICATIONS. ALL CONCRETE TO HAVE MAXIM CONTENT BY WEIGHT OF CEMENT. ADMIXTURES
- 4. CONCRETE POURED AGAINST AN EXISTING SURG INCH AMPLITUDE.
- 5. REBAR CLEAR DISTANCE SHALL BE AS FOLLOWS -CAST AGAINST AND PERMANENT CONTACT W -EXPOSED TO WEATHER OR IN CONTACT WITH - NOT EXPOSED TO WEATHER OR GROUND
- CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-E OR FLATWORK EXPOSED TO WEATHER.
- 7. SHORING AND RESHORING: -SHORING AND SUPPORTING FORMWORK SHA BEFORE CONCRETE STRENGTH REACHES 70%

DAYS. -SHORING MAY NOT BE REMOVED SOONER THAN REC

MINIMUM STANDARDS:

CONCRETE SHALL BE 6% (± 1%) AIR-ENTRAINED FOR WALLS OR FLATWORK WHERE EXPOSED TO WEATHE OTHERWISE. REINFORCING BAR SHALL BE GRADE 60

CONCRETE REINFORCEMENT STEEL

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM
- 2. SMOOTH BARS OR WELDED WIRE FABRIC SHALL
- 3. ALL REBAR LAP SPLICES SHALL BE CLASS B LAP
- 4. DEVELOPMENT LENGTH NOTED IS EQUAL TO 80% SCHEDULE.
- 5. 90% HOOK SHOWN IN DRAWINGS SHALL BE STAN -STRAIGHT EXTENSION LENGTH = $12xØ_{BAR}$ -BEND DIAMETER = $12XØ_{BAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)
- 7. HOOKED DOWELS:
- 7.1. HOOKED DOWELS FROM FOUNDATIONS TO V **REINFORCING AND EXTENDED TO 3" CLEAR I**
- 7.2. HOOKED DOWELS MATCH SLAB REINFORCIN
- 8. PROVIDE 2 #5 BARS AROUND PERIMETER OF AL
- 9. HORIZONTAL WALL REINFORCING SHALL TERMIN HOOK
- 10. TOP AND BOTTOM HORIZONTAL REINFORCING SHALL BE PLACED 1-1/2" TO 2" FROM THE TOP AND BOTTOM OF THE WALL

FOOTNOTES:

- 1. WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB.
- 2. VERTICAL REINFORCEMENT FOR CONCRETE WALLS THAT ARE NOT FULL HEIGHT AND FOR SHALL HAVE VERTICAL REINFORCEMENT PLACE AS FOLLOWS:
- A. 8" WALL MINIMUM 5" FROM THE OUTSIDE FACE. B. 10" WALL - MINIMUM 6-3/4" FROM THE OUTSIDE FACE. C. EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL.
- 3. HORIZONTAL REINFORCEMENT:
- A. ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL.
- BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE).
- ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE CORNERS.
- 5. AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3-1/2". LEDGES SHALL NOT EXCEED
- BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS (SEE TYPICAL DEAD MAN SECTION). TABLE 1.1

	NORMAL WEIGHT CONCRETE LAP SPLICE SCHEDULE, IN								
BAR	TOP	BARS	RS OTHER BARS						
SIZE	CASE 1	CASE 2	CASE 1	CASE 2					
#3	28	42	22	32					
#4	37	56	29	43					
#5	47	70	36	54					
#6	56	84	43	64					

	STEE	. DECK - SUSPENDED SLABS		ENER	<u>GY REQUIREMENTS:</u>
ERS SHALL BE SUPPORTED ON CONTINUOUS SOLID STRUCTURAL SYSTEM TO SAFELY SUPPORT THE	1.	STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.	N AND ATTACHMENT SHALL COMPLY	1.	LIGHTING FIXTURES PENETR AND SEALED TO THE GYPSU
CED IN ACCORDANCE WITH THIS STANDARD OR FOUNDATION WALLS SHALL BE CONTINUOUS AROUND (T. THE CONTINUOUS TRANSITIONS BETWEEN	2.	STEEL ROOF DECK SHALL BE AS FOLLOWS UNLESS NOTED OT DRAWINGS:	HERWISE ON CONSTRUCTION	2.	PROGRAMMABLE THERMOS
LE SPACE SHALL BE MADE BY APPROVED SOLID		WIDE RIB CONFIGURATION		3.	AIR HANDLERS SHALL BE RA
JPPORT OF THE STRUCTURE. SEE "TYPICAL /IAXIMUM 4" OVER-DIG AND "FOOTING JUMP"		1.5" DEPTH24GA DESIGN THICKNESS		4.	BUILDING FRAMING CAVITIES
RDS)		 MAXIMUM SINGLE SPAN OF 4'-8" OR CONTINUOUS SPAN (GALVANIZE PER ASTM A653 OR SHOP PRIME PER ASTM A ATTACH STEEL ROOF DECK TO SUPPORTS WITH #12 TEK 	A1008	5.	HOT WATER PIPES SHALL BE
ORM TO ACI 318-11 AND THE 2018 INTERNATIONAL		 ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR MID-SPAN, WHICHEVER IS SMALLER 			ALL EXHAUST FANS SHALL T
STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE	3.	CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE AP			MAKEUP AIR SYSTEMS SHAL AS REQUIRED PER M1503.6.
		ROOF COVERING.		8.	AN AIR HANDLING SYSTEM S M1601.6 ENERGY CONSERVA
CEMENT MATERIALS RATIO OF 0.45 FOR ALL 1UM 0.10 PERCENT WATER SOLUBLE CHLORIDE	4.	STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED O DRAWINGS:	THERWISE ON CONSTRUCTION	GARA	GES:
S SHALL NOT CONTAIN ANY CHLORIDES.		 2" COMPOSITE DECK WITH 6" TOTAL SLAB THICKNESS 22GA DESIGN THICKNESS 		1	THE GARAGE FLOOR SHALL
GACE SHOULD BE ROUGHENED TO A MINIMUM 1/4		 MAXIMUM SINGLE SPAN DURING CONSTRUCTION OF 6'-1' 7'-5" 	" OR CONTINUOUS SHORED SPAN OF		DOORS BETWEEN THE GARA
		MAXIMUM SPAN SHALL NOT EXCEED 12'-6"		۷.	STEEL DOOR OR 20 MINUTE
s: WITH GROUND3 IN		 PROVIDE W2.1xW2.1 WELDED WIRE MESH OR #4 @ 12" O COVER MEASURED FROM TOP OF THE SLAB 	U.C. EACH WAY. PROVIDE 2" REBAR	3.	THE GARAGE SHALL BE SEP.
H GROUND 2 IN 1.5 IN		GALVANIZE PER ASTM A653MINIMUM BEARING LENGTH AT EDGE SUPPORTS IS 2"			GYPSUM BOARD APPLIED TO ABOVE.
ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS,		 MINIMUM BEARING LENGTH AT INTERIOR SUPPORTS IS 4 ATTACH STEEL COMPOSITE FLOOR DECK TO SUPPORTS O.C. MECHANICAL FASTENERS EITHER POWDER ACTUA' SCREWS MAY BE USED IN LIEU OF WELDING PROVIDED T ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR 	WITH 5/8" ARC PUDDLE WELDS AT 12" TED, PNEUMATICALLY DRIVEN, OR FHEY ARE APPROVED.	4.	THE GARAGE COLUMNS AND WITH 5/8" GYPSUM BOARD O THE FLOOR CEILING ASSEMI ON THE GARAGE CEILING.
ALL NOT BE REMOVED FROM HORIZONTAL MEMBERS % OF STRENGTH DETERMINED BY CYLINDERS OR 28		MID-SPAN, WHICHEVER IS SMALLER.		5.	GARAGE DOOR AND FRAME
COMMENDED BY ASTM 374-04 SECTION 3.7.2.3.		CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH COLUMN CLOSURES, END PLATES, AND COVER PLATES AS NE CTURAL STEEL			BALANCE SHALL CONSIST OF CEILING, ATTACHED WITH 1- THROUGH THE JAMB INTO TH BALANCE SYSTEM.
GARAGE SLABS AND FOR ALL LOCATION'S FOOTINGS,		STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFOR	M WITH AMERICAN INSTITUTE OF STEEL	6.	SELF CLOSING DEVICES SHA
ER. REBAR SHALL BE MINIMUM 60 KSI UNLESS NOTED 0 MINIMUM.		CONSTRUCTION.			PER R302.5.1.
	2.	STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS: HOLLOW STRUCTURAL SECTIONS: CHANNELS, PLATES AND ANGLES:	ASTM A500 (Fy = 46 KSI) ASTM A36 (Fy = 36 KSI)	7.	GARAGE VEHICLE DOORS AN WIND LOAD REQUIREMENTS
1 A615, GRADE 60.		WIDE FLANGES: COLUMNS:	ASTM A992 (Fy = 50 KSI) ASTM A53 GR. B (Fy= 35 KSI)	<u>STAIR</u>	WAYS:
CONFORM TO ASTM 185.		ANCHOR RODS:	ASTM F1554 (Fy = 36 KSI)	1.	STAIRWAYS SHALL PROVIDE
SPLICES AS SHOWN ON THE LAP SPLICE SCHEDULE.	3.	BOLTS SHALL CONFORM TO ASTM A307		2.	PROVIDE GUARD RAILS BET PORCHES AND BALCONIES; I
% OF THE LENGTH NOTED IN THE LAP SPLICE	4.	WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPEC	CIFICATION (WPS) AS REQUIRED IN AWS		MORE THAN 30" ABOVE THE
NDARD PER ACI 318-14		D1.1 THE WPS VARIABLES SHALL BE WITHIN THE PARAMETER MANUFACTURER.	S ESTABLISHED BY THE FILLER-METAL	3.	GUARD RAIL ENCLOSURES S NOT ALLOW PASSAGE OF A S
		WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OR 3/		4.	EACH STAIRWAY OF THREE
	6.	ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDE ERECTION CAN STILL BE EXECUTED.	D AT THE CONTRACTOR'S OPTION IF	5.	HANDRAILS SHALL HAVE A C GRASPABLE SHAPE PER IRC
WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL FROM BOTTOM OF FOUNDATION				6.	MINIMUM 6'-8" OF HEADROOM
NG FROM SLAB TO WALLS OR SLAB TO FOUNDATION				7.	ENCLOSED ACCESSIBLE SPA
NATE AT THE END OF THE WALL WITH A STANDARD				<u>GLAZI</u>	NG
				1	

REINFORCEMENT SPACED 24" O.C. MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS

B. OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C. C. HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR); AND D. SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE 1 #4 REBAR 48" LONG AT 45 DEGREE

4. REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND CORNERS.

A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL FOR WALL THICKNESS LESS THAN 4" PROVIDE #4 BARS AT MAXIMUM 24" O.C. TO WITHIN 8" OF THE TOP OF THE WALL.

6. STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16' LONG SHALL BE PROVIDED WITH EXTERIOR

IANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2-5/8" OR OTHER APPROVED RASPABLE SHAPE PER IRC R311.5.6.

FRAMING NOTES:

- WALLS.

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

09/08/2020

REQUIREMENTS:

IGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED, ND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER IRC N1102.4.4.

ROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.1.1.

IR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER N1103.3.2.1.

UILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.

IOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4.

LL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER IRC M1504.3. AKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM

IN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER 11601.6 ENERGY CONSERVATION.

HE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.

OORS BETWEEN THE GARAGE AND THE DWELLING - MINIMUM 1-3/8" SOLID CORE OR HONEY COMBED TEEL DOOR OR 20 MINUTE FIRE RATED.

HE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND IT'S ATTIC AREAS BY A MINIMUM 5/8" SYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS PROVIDED

HE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED VITH 5/8" GYPSUM BOARD OR EQUIVALENT. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE HE FLOOR CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM PS TYPE "X" GYPSUM BOARD N THE GARAGE CEILING.

ARAGE DOOR AND FRAME - THE "H" FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER ALANCE SHALL CONSIST OF THE FOLLOWING 2x6 VERTICAL JAMBS RUNNING FROM THE FLOOR TO EILING, ATTACHED WITH 1-3/4"x0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3-1/4"x0.120" NAILS HROUGH THE JAMB INTO THE HEADER. A MINIMUM OF 2x8 HEADER FOR ATTACHMENT OF COUNTER ALANCE SYSTEM.

ELF CLOSING DEVICES SHALL BE INSTALLED FOR GARAGE AND/OR DWELLING SEPARATION DOORS ER R302.5.1.

ARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 90 MPH VIND LOAD REQUIREMENTS OF DASMA 108 AND ASTM E330-96 (IRC 301.2.1).

TAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.

ROVIDE GUARD RAILS BETWEEN 36" GUARD RAILS ON THE OPEN SIDES OF RAISED FLOORS, ORCHES AND BALCONIES; MINIMUM 34" GUARD RAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED IORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW.

UARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO IOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.

ACH STAIRWAY OF THREE OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT EAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.

1INIMUM 6'-8" OF HEADROOM CLEARANCE IS REQUIRED IN STAIRWAYS.

NCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE TAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE PER IRC R311.2.2.

GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS; GLASS IN STORM DOORS; INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR; WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR; ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS; GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING 8 SF AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".

2. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH R312.2.

EMERGENCY EGRESS AND RESCUE

1. PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SF WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21"

2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.

3. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.

4. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER R315.

1. ALL LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED.

2. ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2x10 ON LOAD BEARING

3. ALL HEADER/BEAMS TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE.

4. DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS.

5. CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED

6. ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.

7. INTERIOR NON LOAD BEARING WALLS SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE UNLESS THE INTERIOR NON LOAD BEARING WALL RESTS DIRECTLY ON A FOOTING.

8. LVL STRENGTH SHALL BE VERSA-LAM 3100 Fb UNLESS NOTED OTHERWISE.



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SHEET #

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	2018 IF	C TABLE R602.3(1) (SEE IRC FOR FOOTN	IOTES)		2018 IF	RC TABLE R602.3(1) (SEE IRC FOR FOOT	NOTES)	
ITEM	DESCRIPTION OF BUILDING	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION			FLOOR		
	ELEMENTS BLOCKING BETWEEN CEILING	ROOF 4-8D BOX (2-1/2"x0.113") OR 3-8D COMMON (2-1/2" x 0.131"); OR		21	JOST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	TOE NAIL	
1	JOISTS OR RAFTERS TO TOP PLATE	3-10D BOX (3" x 0.128"); OR	TOE NAIL		RIM JOIST, BAND JOIST OR	8d BOX (2-1/2"x0.113")	4" O.C. TOE NA	IL
2	CEILING JOSTS TO TOP PLATE	3-3" x 0.131" NAILS 4-8D BOX (2-1/2"x0.113") OR 3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR	PER JOIST, TOE NAIL	22	BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D COMMON (2-1/2" X 0.131"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	6" O.C. TOE NA	IL
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER LAPS OVER PARTITIONS	3-3" x 0.131" NAILS 4-10D BOX (3" X 0.128"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-3" X 0.131" NAILS	FACE NAIL	23	1"x6" SUBFLOOR OR LESS TO EACH JOIST	3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE NAIL	
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	TABLE R802.5.2	FACE NAIL			FLOOR		
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1-1/4"x20 GAGE RIDGE STRAP	4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR	FACE NAIL EACH RAFTER	24	2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM - FLOOR	3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162") 3-16D BOX (3-1/2" X 0.135"); OR	BLIND AND FACE	
	TO RAFTER	4-3" X 0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR		25	& ROOF)	2-16D COMMON (3-1/2"x0.162")	AT EACH BEARING, FA	ACE NAIL
6	RAFTER OR ROOF TRUSS TO PLATE	3-10d COMMON NAILS (3"x0.148"); OR 4-10D BOX (3" X .128"); OR 4-3" X 0.131" NAILS 4-16D (3-1/2"x0.135") ; OR	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS	26	BAND OR RIM JOIST TO JOIST	3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, ⁷ / ₁₆ " CROWN	END NAIL	
	ROOF RAFTERS TO RIDGE, VALLEY	3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X0.131" NAILS	TOE NAIL			20D COMMON (4" X 0.192"); OR	NAIL EACH LAYER AS FOLLOV TOP END AND BOTTOM AND S	
7	OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.162"); OR		27	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	24" O.C. FACE NAIL AT TOP AN STAGGERED ON OPPOSITE S	
		3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS WALL	END NAIL			AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	FACE NAIL AT ENDS AND AT E	
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16D COMMON (3-1/2" X 0.162") 10d BOX (3"x0.128"); OR 3" X 0.131" NAILS	24" O.C. FACE NAIL 16" O.C. FACE NAIL	28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16D BOX (3-1/2" X 0.135"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS	AT EACH JOIST OR RAFTE	R, FACE NAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL	16D BOX (3-1/2"x0.135"); OR 3" X 0.131" NAILS	12" O.C. FACE NAIL	29	BRIDGING OR BLOCKING TO	2-10D BOX (3" X 0.128"); OR 2-8D COMMON (2-1/2" X 0.131"; OR 2-3" X	EACH END, TOE	NAIL
	PANELS)	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL		JOIST	0.131") NAILS		
10	BUILT-UP HEADER (2" TO 2" HEADER WITH ¹ / ₂ " SPACER)	16D COMMON (3-1/2"x0.162")	16" O.C. ALONG EACH EDGE FACE NAIL			NUMBER AND TYPE OF FASTENER	SPACING OF FAST	ENERS
11	CONTINUOUS HEADER TO STUD	16D BOX (3-1/2" X 0.135) 5-8D BOX (2-1/2" X 0.113"); OR 4-8D COMMON (2-1/2" X 0.131"); OR 4-10D BOX (3" X 0.128")	12" ALONG EACH EDGE FACE NAIL TOENAIL	ITEM	DESCRIPTION OF BUILDING ELEMENTS			FERMEDIAT
		16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL			6d COMMON (2"x0.113") NAILS (SUBFLOOR, WALL)		
12	TOP PLATE TO TOP PLATE	10d BOX (3"x0.128"); OR 3" X 0.131" NAILS	12" O.C. FACE NAIL	30	3/8" - 1/2"	8d COMMON (2-1/2"x0.131") NAIL (ROOF); OR RSRS-01 (2-38" X 0.113") NAIL (ROOF)	6	12
13	DOUBLE TOP PLATE SPLICE	8-16D COMMON(3-1/2" X 0.162"); OR 12-16D BOX (3-1/2" X 0.135"); OR 12-10D BOX (3" X 0.128"); OR 12-3" X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	31	19/32"-1" 1-1/8" - 1-1.4"	8d COMMON NAIL (2-1/2"x0.131"); OR RSRS-01 (2-3/8" X 0.113") NAIL (ROOF) 10d COMMON (3"x0.148") NAIL OR	6	12
	BOTTOM PLATE TO JOIST, RIM	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL	32	1-1/0 - 1-1.4	8D (2-1/2"x0.131") DEFORMED NAIL	0	12
14	JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D BOX (3-1/2"x0.135"); OR 3" X 0.131" NAILS	12" O.C. FACE NAIL			OTHER WALL SHEATHING 1-1/2" GALVANIZED ROOFING NAIL, 7/16"		
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST BLOCKING (AT BRACED WALL PANELS)	3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON (3-1/2"x0.162"); OR 4-3" X 0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL	33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	HEAD DIAMETER, OR 1-1/4" LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN 1-3/4" GALVANIZED ROOFING NAIL, 7/16"	3	6
	, ,	4-8D BOX (2-1/2"x0.113") OR 3-16D BOX (3-1/2" x 0.135"); OR 4-8D COMMON (2-1/2" X 0.131"); OR	TOE NAIL	34	25/32" STRUCTURAL CELLULOSTIC FIBERBOARD SHEATHING	HEAD DIAMETER, OR 1-1/2" LONG 16 GA STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6
16	TOP OR BOTTOM PLATE TO STUD	4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS 3-16D BOX (3-1/2" x 0.135"); OR		35	1/2" GYPSUM SHEATHING	1-1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S"	7	7
		2-16D COMMON (3-1/2" X 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL	36	5/8" GYPSUM SHEATHING	1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S"	7	7
17	TOP PLATES, LAPS AT CORNERS	3-10D BOX (3" X 0.128"); OR			WOOD STRUCTURA	L PANELS, COMBINATION SUBFLOOR UN	NDERLAYMENT TO FRAMIN	G
17	AND INTERSECTIONS	2-16D COMMON (3-1/2" X 0.162"); OR 3-3" X 0.131" NAILS 3-8D BOX (2-1/2" X 0.113"); OR	FACE NAIL	37	3/4" AND LESS	6D DEFORMED (2"x0.120") NAIL OR 8D COMMON (2-1/2"x0.131") NAIL	6	12
18	1" BRACE TO EACH STUD AND PLATE	2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" X 0.128"); OR	FACE NAIL	38	7/8" - 1"	8D COMMON (2-1/2"x0.131") NAIL OR 8D DEFORMED (2-1/2"x0.120") NAIL 10D COMMON (3"x0.148") NAIL OR	6	12
19	1"x6" SHEATHING TO EACH BEARING	2 STAPLES 1-3/4" 3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" X 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE NAIL	39	1-1/8" - 1-1/4"	8D DEFORMED (2-1/2"x0.120") NAIL	6	12
20	1"x8" AND WIDER SHEATHING TO	3-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE NAIL		F			7
20	EACH BEARING	WIDER THAN 1" X 8" 4-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR			-	TABLE R507.2.1 PLACEMENT OF LAG SCR LEDGERS AND BAND		
		4 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG				MINIMUM END AND EDGE DISTANCES AND (INCHES)	SPACING BETWEEN ROWS	

TABLE R507/2 FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER 2" NOMINAL SOLID SAWN SPRUCE-PINE-FIR BAND JOIST (DECK LIVE LOAD = 40PSF, DECK DEAD LOAD = 10 PSF)									
JOIST SPAN	6' AND LESS	6'1 TO 8'	8'1 TO 10'	10'1 TO 12'	12'1 TO 14'	14'1 TO 16'	16'1 TO 18'		
CONNECTION DETAILS		ON CENTER SPACING OF FASTENERS							
1/2" DIAMETER LAG SCREW WITH 15/32" MAX SHEATHING	30	23	18	15	13	11	10		
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING	36	36	34	29	24	21	19		
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING AND 1/2" STACKED WASHERS	36	36	29	24	21	18	16		

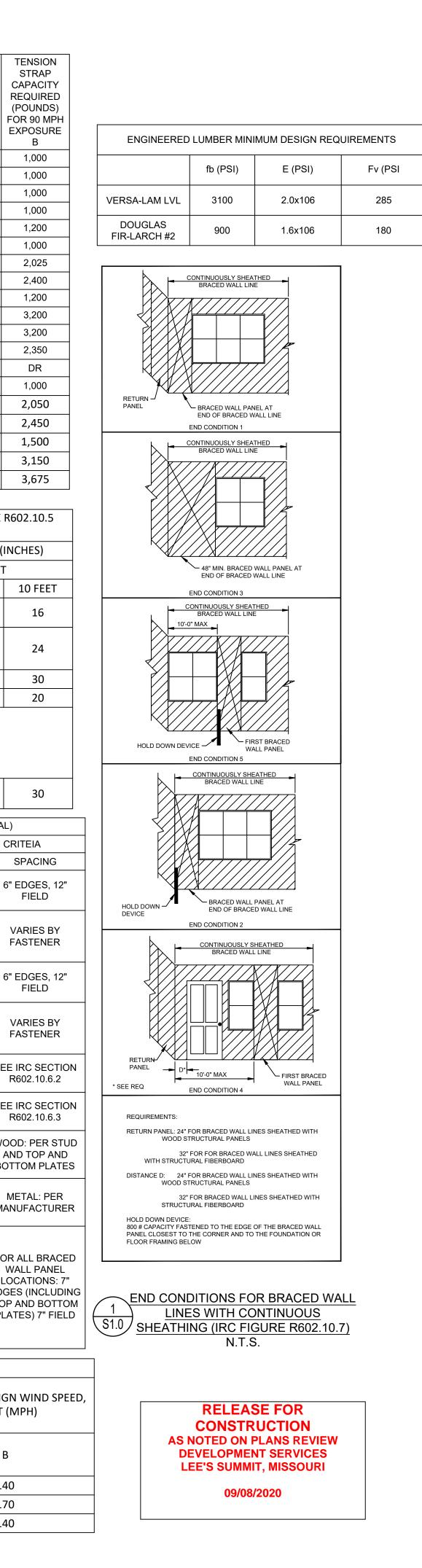
MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (FEET)	MAXIMUM TOTAL WALL HEIGHT (FEET)	MAXIMUM OPENING WIDTH (FEET)	(F (E
	0	10	18	
			9	
	1	10	16	
			18	
			9	
	2	10	16	
2x4 NO 2 GRADE			18	
<u> </u>			9	
	2	12	16	
			18	
			9	
	4	12	16	
			18	
			9	
	2	12	16	
2x6 STUD			18	
GRADE			9	
	4	12	16	
			18	
	1			L

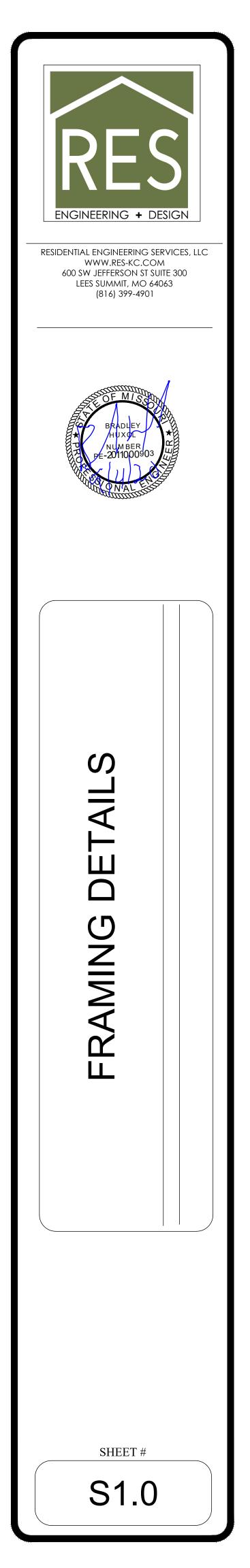
MINIMUN	M LENGTH OF BRA	ACED WALL F (PARTIAL)	PANELS TABLE	Re
		MININ	IUM LENGTH (IN
M	ETHOD		WALL HEIGHT	-
		8 FEET	9 FEET	
	SUPPORTING ROOF ONLY	16	16	
PFH	SUPPORTING ONE STORY AND ROOF	24	24	
	PFG	24	27	
0	CS-PF	16	18	
CS-WSP	ADJACENT CLEAR OPENING HEIGHT (INCHES)			
	LESS THAN OR EQUAL TO 64	24	27	
	BRACING METHO		02 10 4 (PARTIA	1)

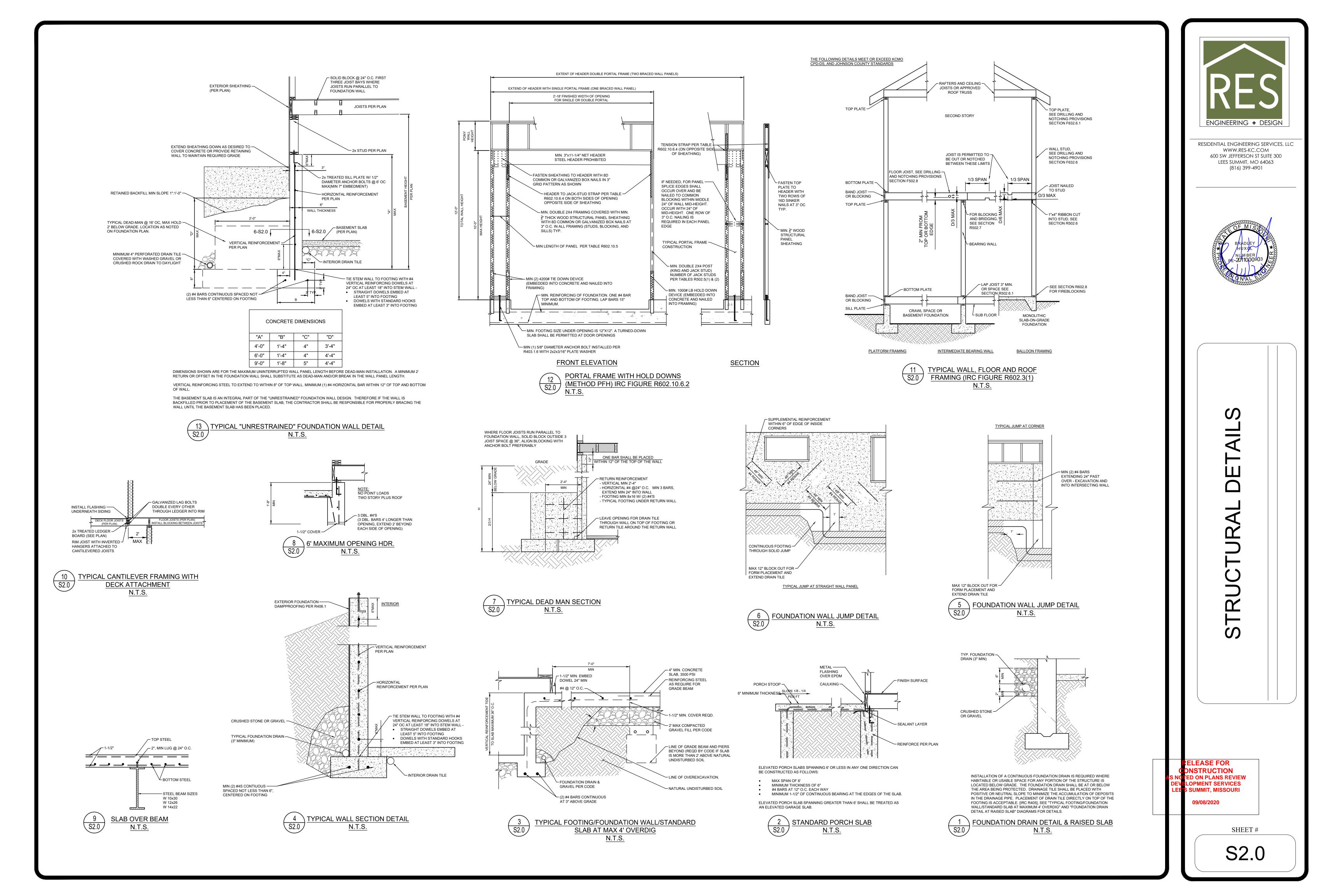
BRACING METHODS TABLE R602.10.4 (PARTIAL)						
METHODS,	MINIMUM	CONNECT	ION CR			
MATERIAL	THICKNESS	FASTENERS				
WSP - WOOD		EXTERIOR SHEATHING PER TABLE R602.3(3)	6"			
STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	V F			
CS-WSP CONTINUOUSLY		EXERIOR SHEATHING PER TABLE R602.3(3)	6"			
SHEATHED WOOD STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	V F.			
PFH - PORTAL FRAME WITH HOLD DOWNS	3/8	SEE IRC SECTION R602.10.6.2	SEE R			
PFG - PORTAL FRAME AT GARAGE	3/8	SEE IRC SECTION R602.10.6.3	SEE R			
LIB	1x4 WOOD OR APPROVED METAL STRAPS AT 45 TO 60	WOOD: 2-8d COMMON NAILS OR 3-8d NAILS	WOO AN BOT			
LET-IN-BRACING	DEGREE ANGLES FOR MAX 16" STUD SPACING	METAL STRAP: PER MANUFACTURER	M MAN			
GB-GYPSUM	1/2	NAILS OR SCREWS PER TABLE R602.3(1) FOR EXTERIOR LOCATIONS	FOR W/ LOC			
BOARD	172	NAILS OR SCREWS PER TABLE R702.3.5 FOR INTERIOR LOCATIONS	EDGE TOP / PLAT			

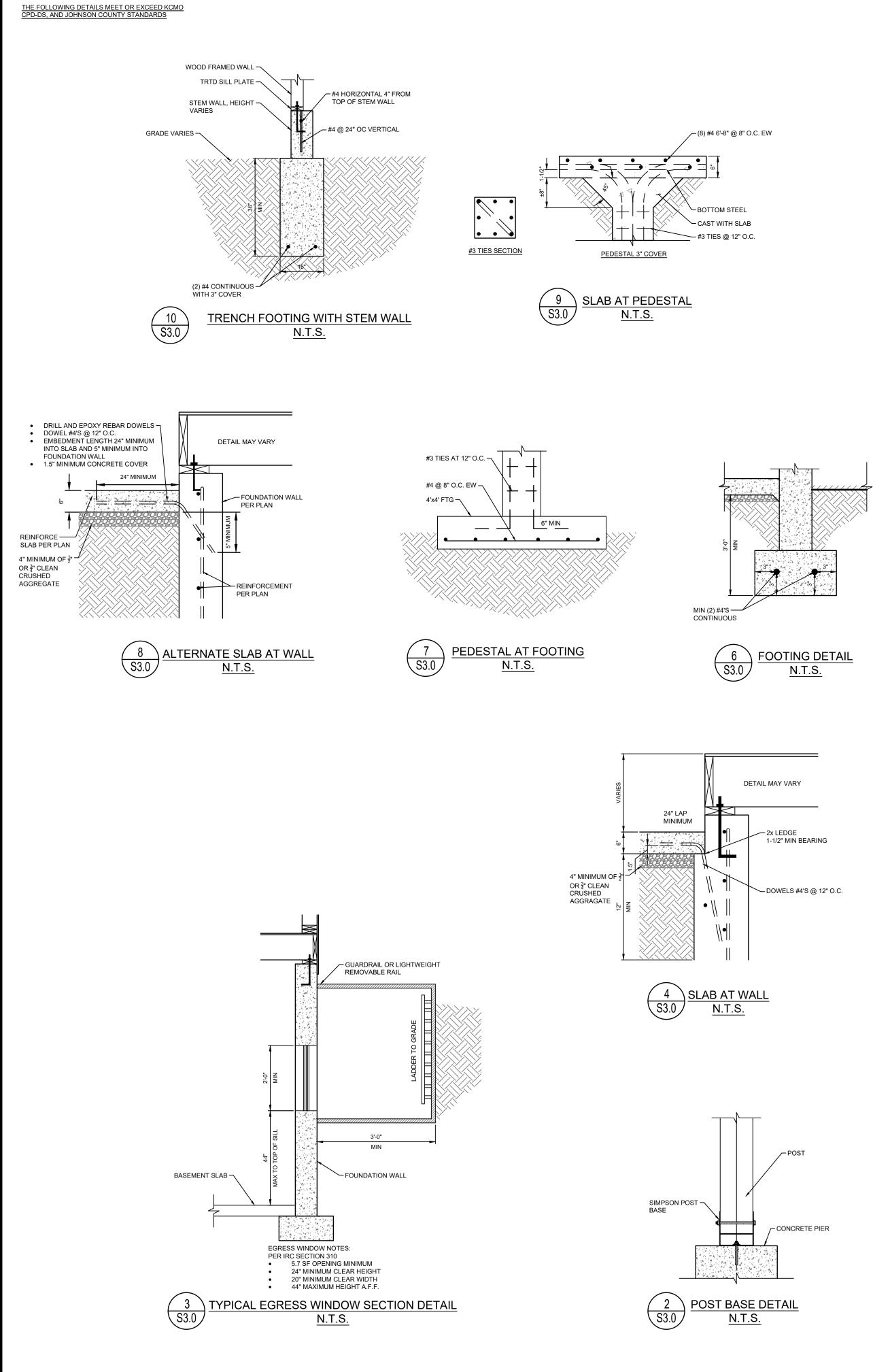
TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS									
MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)									
	TOP EDGE		ENDS	ROW SPACING					
LEDGER	2	1/4	2	1-5/8					
BAND JOIST	3/4	2	2	1-5/8					

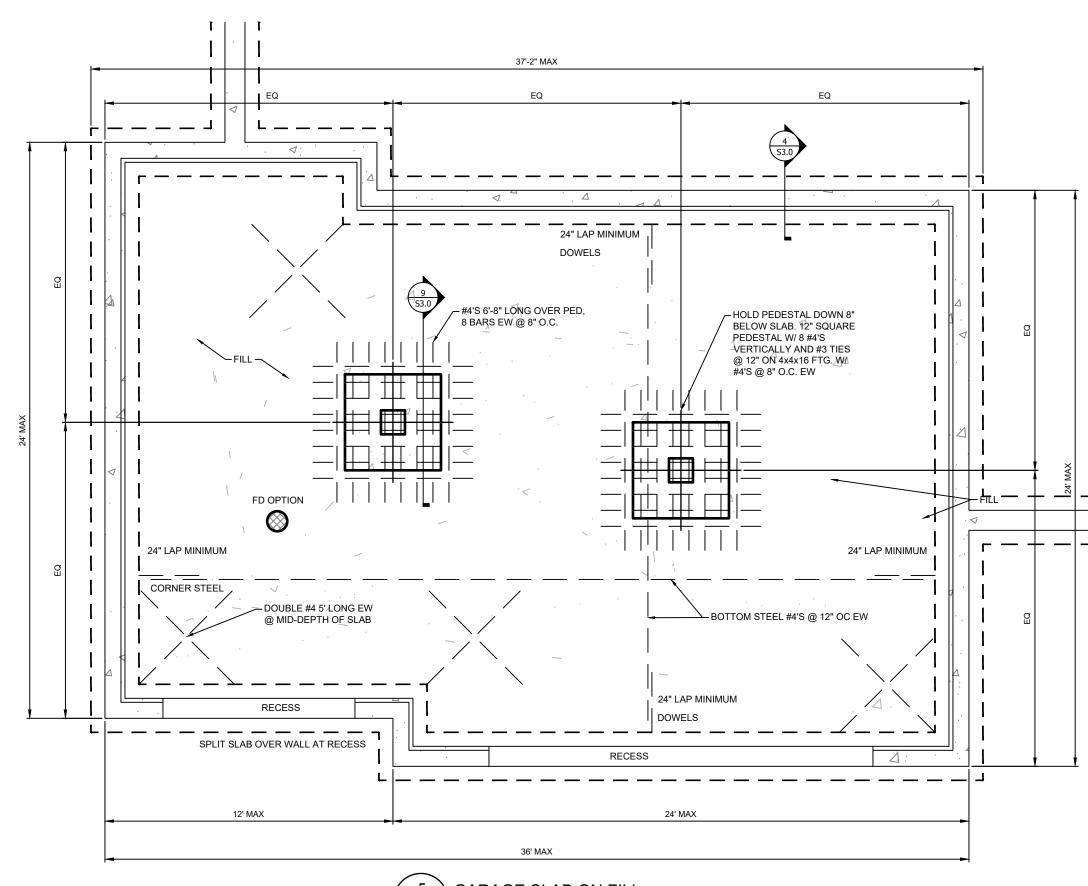
F	REQUIREMENTS FO	R WOOD STRUCTUR	AL PANEL WALL SHEAT	THING USED TO RESIS	T WIND PRESSU	RES IRC TABLE 60	02.3(3) (PARTIAL)
MINIMU	IM NAIL	MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (IN)	MAX WALL STUD SPACING	PANEL NAIL SPACING		ULTIMATE DESIGN V V ULT (MP
SIZE	PENETRATION (IN)				EDGES (IN O.C.)	FIELD (IN O.C.)	В
6d COMMON	1.5	24/0	3/8	16	6	12	140
8d COMMON	1.75	24/16	7/16	16	6	12	170
				24	6	12	140



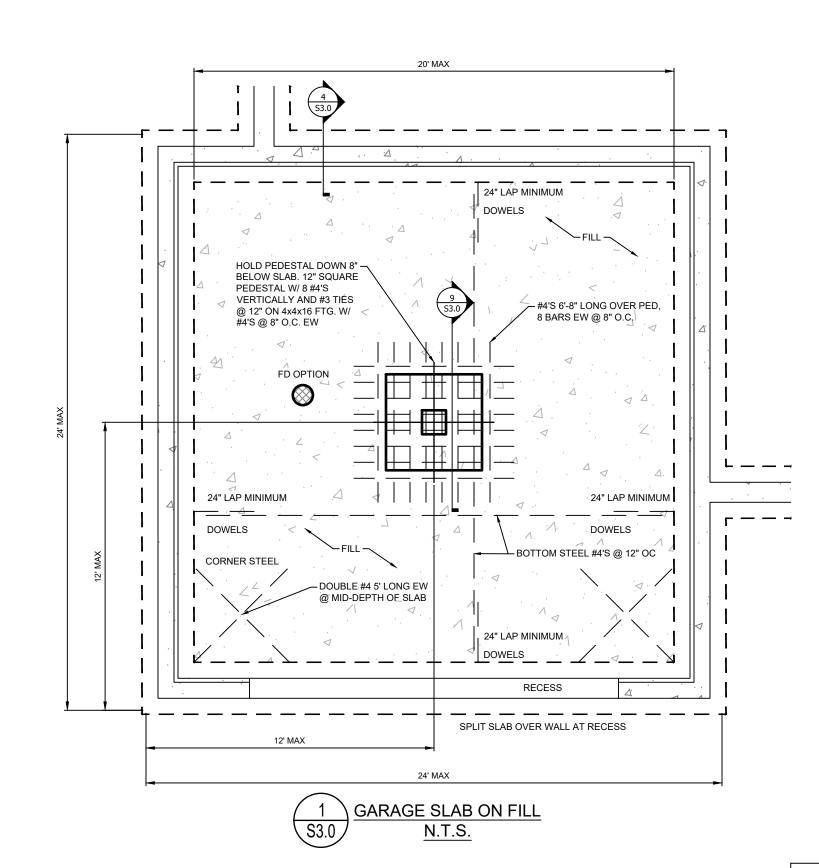








GARAGE SLAB ON FILL S3.0 N.T.S.



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

09/08/2020

