

NOTE:

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

ELEVATIONS:

GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS.

WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED. IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR

CORRESPONDING STUD SIZE. WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY WITH IRC R703.2.

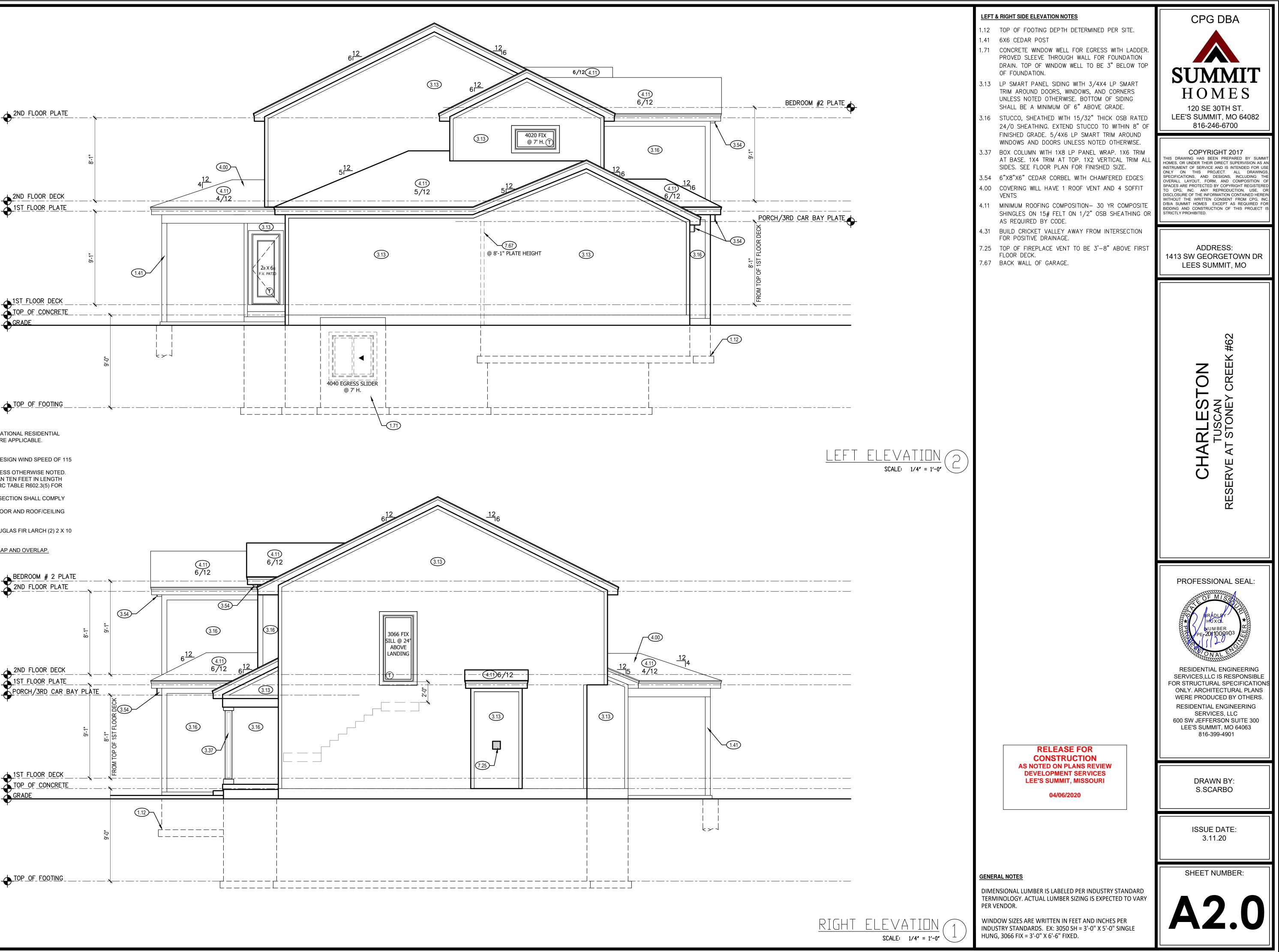
WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

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

SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.



	FRONT & REAR ELEVATION NOTES	CPG DBA
	1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE1.41 6X6 CEDAR POST	
	1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LA PROVED SLEEVE THROUGH WALL FOR FOUNDAT	
	DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW OF FOUNDATION.	
	2.61 5/4"X8" LP SMART TRIM. 1 1/2" ARCH ON GA	ARAGE
	DOOR TRIM UNLESS NOTED OTHERWISE ON ELEVATION.	HOMES
	3.13 LP SMART PANEL SIDING WITH 3/4X4 LP SMAP TRIM AROUND DOORS, WINDOWS, AND CORNERS	LEE'S SUMMIT, MO 64082
	UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE.	
	3.16 STUCCO, SHEATHED WITH 15/32" THICK OSB R 24/0 SHEATHING. EXTEND STUCCO TO WITHIN	
	FINISHED GRADE. 5/4X6 LP SMART TRIM AROU WINDOWS AND DOORS UNLESS NOTED OTHERWI	THIS DRAWING HAS BEEN PREPARED BY SUMMIT HOMES, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE
	3.17 MANUFACTURED STONE VENEER.	ONLY ON THIS PROJECT. ALL DRAWINGS, SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERALL LAYOUT, FORM, AND COMPOSITION OF
	3.37 BOX COLUMN WITH 1X8 LP PANEL WRAP. 1X6 AT BASE. 1X4 TRIM AT TOP. 1X2 VERTICAL TR	TRIM SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR
	SIDES. SEE FLOOR PLAN FOR FINISHED SIZE. 3.54 6"X8"X6" CEDAR CORBEL WITH CHAMFERED ED	D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS
	3.62 CEDAR SHUTTERS. ALL SHUTTERS TO BE 18" V	WIDE
	USING (3) 2X6 BOARDS. LP SMART TRIM TO B INSTALLED AROUND WINDOW PRIOR TO SHUTTE	R
	INSTALLATION. 3.86 DOUBLE TRIM WHERE ADJACENT TO STONE	ADDRESS: 1413 SW GEORGETOWN DR
	4.00 COVERING WILL HAVE 1 ROOF VENT AND 4 SOL	FFIT LEES SUMMIT, MO
	4.11 MINIMUM ROOFING COMPOSITION- 30 YR COMP	
	SHINGLES ON 15# FELT ON 1/2" OSB SHEATHI AS REQUIRED BY CODE.	
	4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECT FOR POSITIVE DRAINAGE.	
		ON CREEK #62
		O N SKEE
	<u>╃</u> ──6"── ┦ ┦ ──6"── ┦	\vdash
		NAN N N N N
	8"	
ONT ELEVATION	ACCENT BRACKETS	
SCALE: 1/4' = 1'-0'	SCALE: 1" = 1'-0"	SERVE C
	GENERAL NOTES	
	DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STAND	DARD L
	TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO PER VENDOR.	VARY
	WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER	
	INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGL HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.	E
	SHEET INDEX	PROFESSIONAL SEAL:
	A1. FRONT AND REAR ELEVATION	SPOF MISSIO
	A2. LEFT AND RIGHT ELEVATION	ES PRADLE
	A3. FOUNDATION LEVEL PLAN	
	A4. MAIN LEVEL PLAN	FE-2011000903
	A4. MAIN LEVEL PLAN A5. UPPER LEVEL PLAN	PE-201000000 LLB
	A5. UPPER LEVEL PLAN	RESIDENTIAL ENGINEERING SERVICES,LLC IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS
 LATE	A5. UPPER LEVEL PLAN	RESIDENTIAL ENGINEERING SERVICES,LLC IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS
 LATE	A5. UPPER LEVEL PLAN A6. ROOF PLAN FINISHED MAIN FLOOR 138	RESIDENTIAL ENGINEERING SERVICES,LLC IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS. RESIDENTIAL ENGINEERING SERVICES, LLC 600 SW JEFFERSON SUITE 300
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 LATE	A5. UPPER LEVEL PLAN A6. ROOF PLAN FINISHED MAIN FLOOR UPPER LEVEL FINISHED STAIRS TO LOWER LEVEL 26 TOTAL 282	RESIDENTIAL ENGINEERING SERVICES,LLC IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS. RESIDENTIAL ENGINEERING SERVICES, LLC 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901
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ON LOAD BEARING WALLS.

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10

WITH IRC R703.2. WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

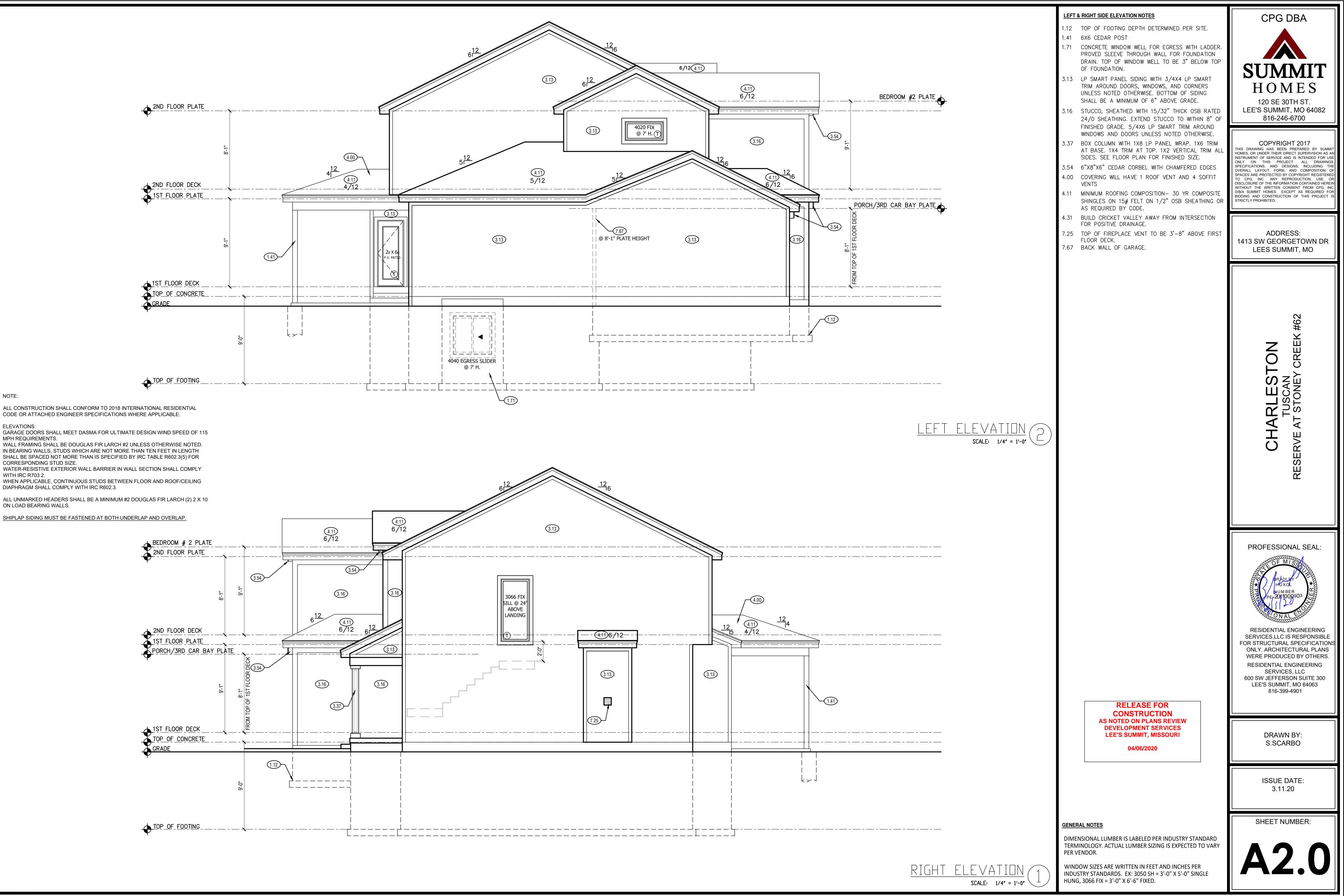
CORRESPONDING STUD SIZE. WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY

WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED. IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR

MPH REQUIREMENTS.

ELEVATIONS: GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115

CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.



NOTE:

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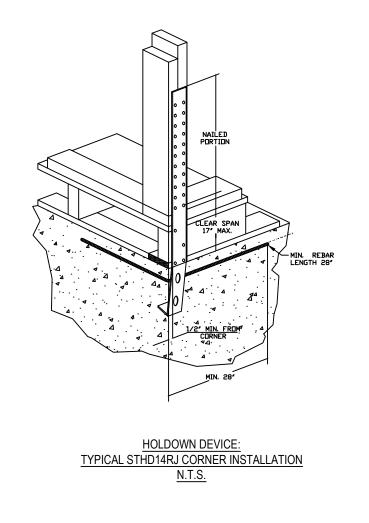
FOUNDATION NOTES: ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".

SOIL BEARING CAPACITY SHALL BE 2000 PSF. COMPRESSIVE STRENGTH OF CONCRETE F'C COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2. REQUIRED AIR ENTRAINMENT SHALL BE 5-7%. ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. DAMPPRROFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR WATERPROOFING SHALL BE A MINIMUM 6-MIL THICK MOISTURE BARRIER OVER POROUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS SHALL BE A MINIMUM 6".

FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC SECTION R406. FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH WITH IRC SECTION R405. BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION R310.1 ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE

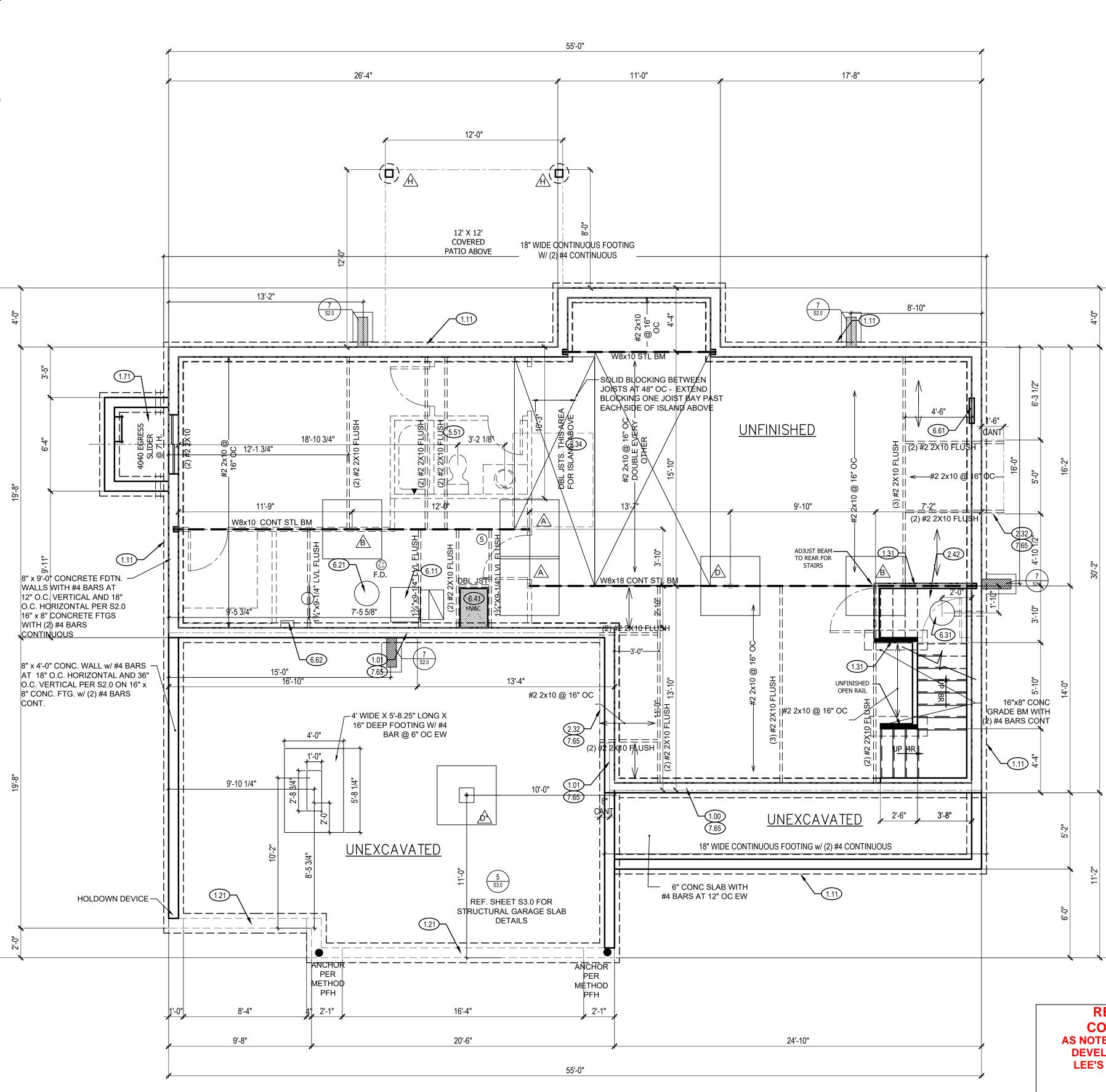
ISOLATED FROM THE BASEMENT FLOOR SLAB. ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 6' O.C. AND BE EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".

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



IS	OLATE	D FO		NG	S	AND	COLU	IMN PADS
SYM	PIER PAD SIZE	DEPTH	REI		RCE	NIMUM MENT I STI	GRADE	SCHEDULE 40 STEEL COLUMN, MIN FY = 36KSI
\mathbb{A}	30″×30″	1'-0″		(5)	#4	BAR	E.W.	3″ DIAMETER
B	36″×36″	1'-0"		(6)	#4	BAR	E.W.	3" DIAMETER
Ċ	42″×42″	1′-2″		(7)	#4	BAR	E.W.	3″ DIAMETER
\triangle	48″×48″	1'-4″		(8)	#4	BAR	E.W.	3″ DIAMETER
<u>b</u> *	48″×48″	1'-4″		(8)	#4	BAR	E.W.	N/A
Æ	54″×54″	1'-4″		(9)	#4	BAR	E.W.	3.5″ DIAMETER
F	60″×60″	1′-6″	1	(10)	#4	BAR	E.W.	3.5″ DIAMETER
IS	SOLATE	D FC	DT:	[NG	iS	AND	COLL	IMN PADS
SYM	PIER DIAMETE	ER DEP	тн	1INI	MUM		NFORCEN KSI STE	
ß	12″	3'-	0″			(4)	VERTIC	AL #4
	16″	3'-	0″			(4)	VERTIC	AL #4
	18″	3'-	0″			(4)	VERTIC	AL #4
k	24″	3'-	0″			(4)	VERTIC	AL #4
\triangle	28″	3'-	0″			(4)	VERTIC	AL #4

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'. COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.



FOUNDATION PLA

	FOUNDATION PLAN NOTES	CPG DBA
	 HOLD SILL PLATE BACK 2" HOLD SILL PLATE BACK 4" CONTINUOUS CONCRETE FOOTING RECESS TOP OF FOUNDATION WALL 2X4 STUD WALL WITH TREATED SILL PLATE CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION. INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE. CURB STAIR SYSTEM WITH OPEN HANDRAILS FIRE RATED SHEETROCK UNDER STAIRS DRAIN LINE ONLY FOR FUTURE USE. LOCATION TO BE MARKED WITH REBAR AND CUT FLUSH TO FLOOR FINISH. DIRECT FURNACE. FUEL BURNING APPLIANCES SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION AIR. HOT WATER HEATER WITH THERMAL EXPANSION CONTROL DEVICE SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI 	<section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header>
	 6.31 SUMP PIT AND POMP. PROVIDE ELECTRICAL GFG PROTECTION. PROVIDE SLEEVE THROUGH FOOTING. 6.41 HVAC CHASE ABOVE 6.61 200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE. 6.62 UFER GROUND- VERIFY LOCATION WITH PROJECT MANAGER. 7.12 TRIMMED COLUMN 7.65 LINE OF FLOOR ABOVE 	ADDRESS: 1413 SW GEORGETOWN DR LEES SUMMIT, MO
		CHARLESTON TUSCAN RESERVE AT STONEY CREEK #62
		PROFESSIONAL SEAL: Image: Description of the second seco
	GENERAL NOTES BACK WATER VALVES REQUIRED ON ALL BASEMENT PLUMBING FIXTURES. PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION. ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR MASONRY	DRAWN BY: S.SCARBO
FOR TION NS REVIEW ERVICES ISSOURI	SHALL BE OF DECAY-RESISTANT MATERIALS. DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.	ISSUE DATE: 3.11.20
$\frac{1}{SCALE} = \frac{1}{4'} = \frac{1}{-0'}$	ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C. SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS. WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.	SHEET NUMBER:

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

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 FULL HEIGHT CONTINUOUS AT 16" O.C. (UNLESS THERWISE NOTED).

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

APA SIMPLIFIED WALL BRACING (SYSTEM REPORT <u>SR102-D)</u>

METHOD SHALL BE CS-WSP WITH INCREASED SHEATHING THICKNESS (PERFORMANCE CATEGORY). WSP SHEATHING SHALL BE RATED SHEATHING MINIMUM 7/6 PERFORMANCE CATEGORY MEETING REQUIREMENTS OF DEPARTMENT OF COMMERCE DOC PS1 OR PS2 (VOLUNTARY PRODUCT STANDARDS).

PS2-10 TABLE D1 RECOMMENDED THICKNESS LABELING FOR PANELS: 7 PERFORMANCE CATEGORY-MINIMUM THICKNESS OF .406 INCHES (10.32 MM)

MAXIMUM THICKNESS .469 INCHES (11.91 MM) **RECOMMENDED THICKNESS LABEL - THICKNESS .418 IN.**

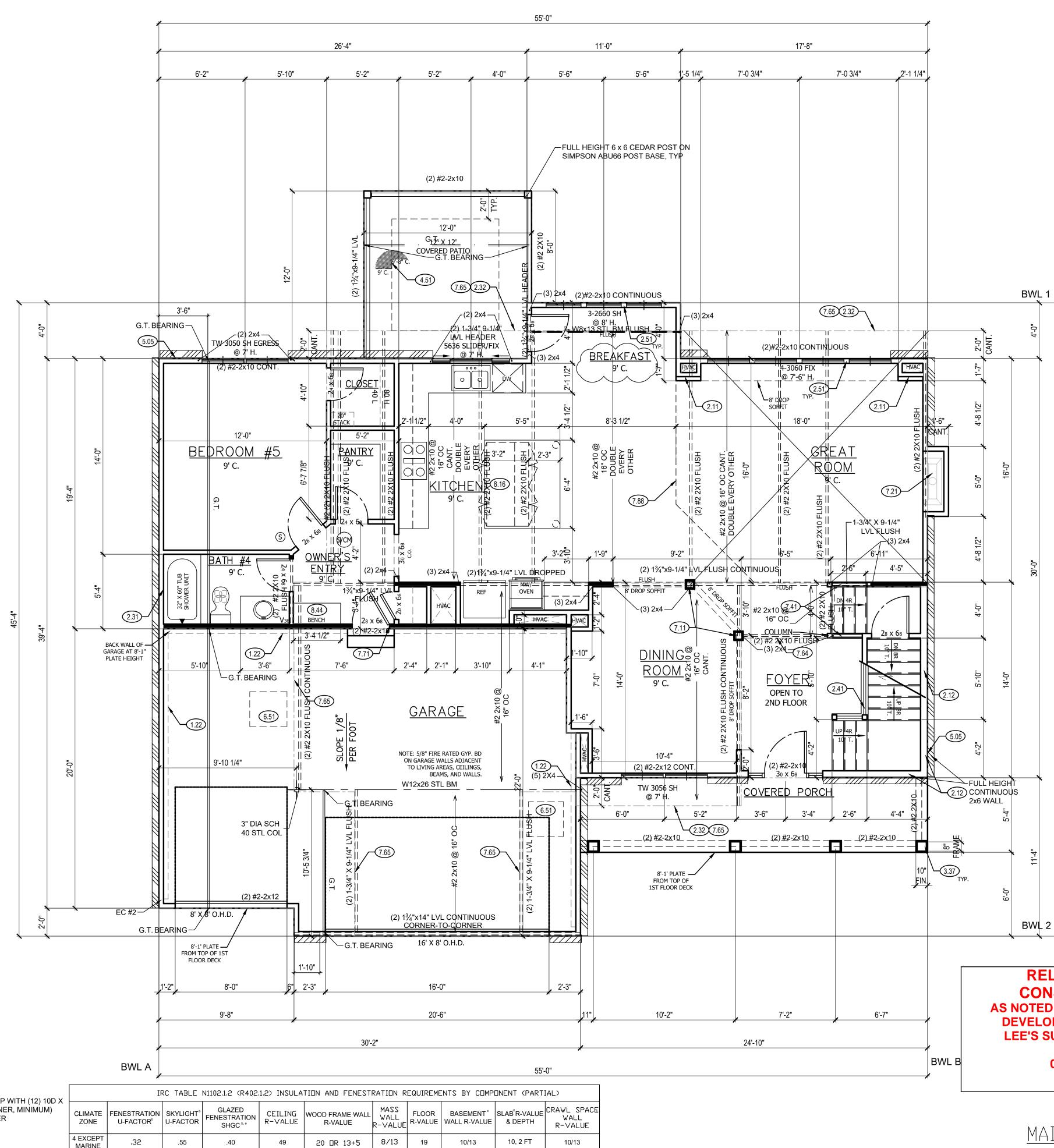
NAIL SIZE SHALL BE 8D HAVING A DIAMETER OF .131" AND LENGTH OF 2.5".

CLOSER NAILING SCHEDULE ON FIRST STORY OF 2ND STORY

SHEATHING SHALL BE INSTALLED WITH A MINIMUM 8D COMMON NAILS SPACED AT 4" OC AT PANEL EDGES AND AT 12" OC OVER INTERMEDIATE SUPPORTS. FOR SINGLE STORY OR TOP OF TWO OR THREE STORY BUILDINGS, SHEATHING MAY BE INSTALLED WITH 8D COMMON NAILS SPACED AT 6" OC AT PANEL EDGES AND 12" AT INTERMEDIATE SUPPORTS.

SHEATHING SHALL BE INSTALLED OVER ALL AREAS EXCLUDING WINDOWS AND DOORS AND INCLUDING GABLE ENDS.

ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER AND BE NAILED TO COMMON FRAMING OR BLOCKING WITH AN APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE WITH IRC R602.10.10.



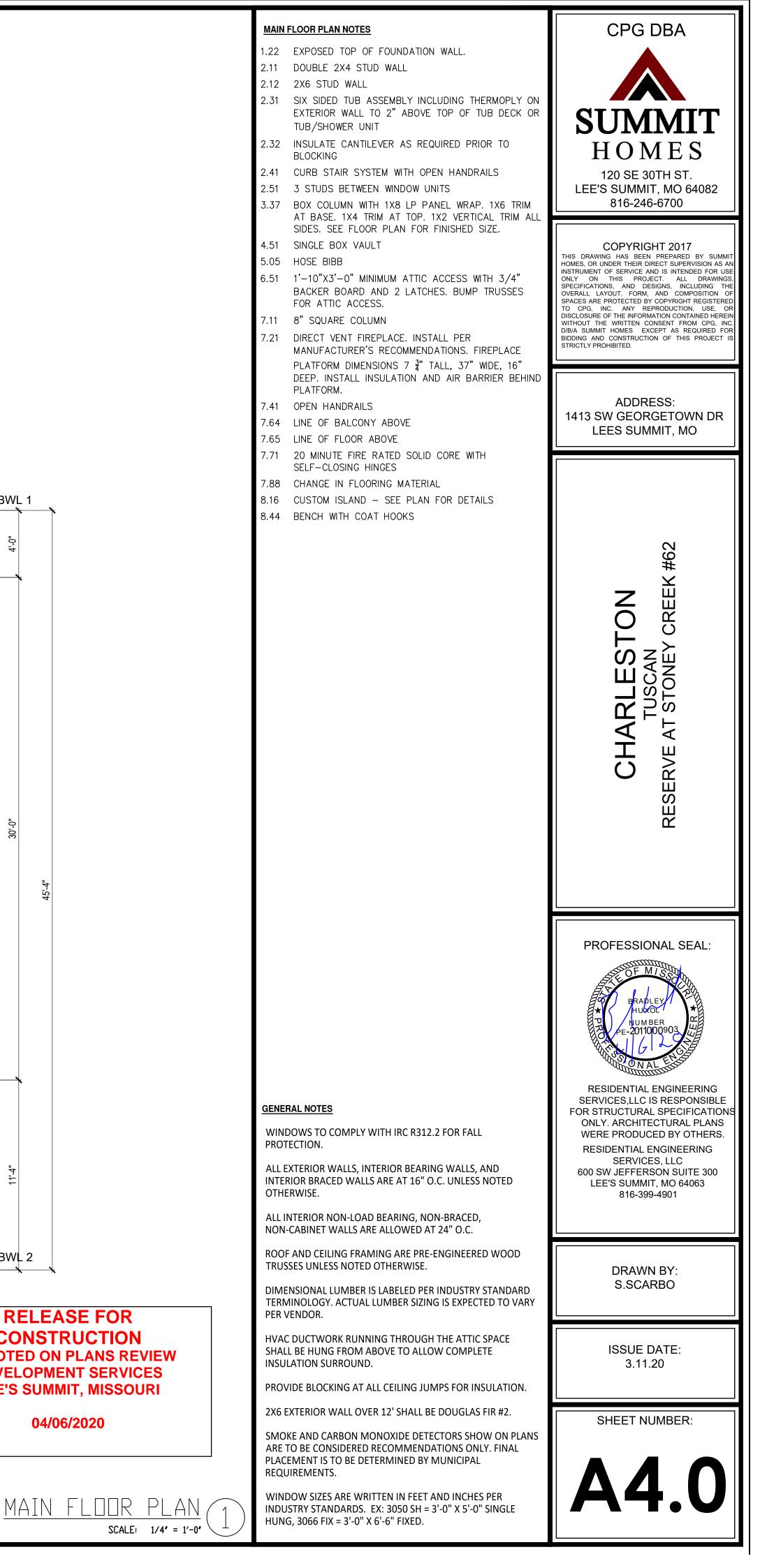
 Zexterior bracing method cs-wsp per specs
 INTERIOR WALL BRACING NOT REQUIRED ON INTERIOR WALLS

EC#2 - END CONDITION #2 SHALL BE ONE OF THE FOLLOWING:

2ND FLOOR AND/OR MAIN FLOOR ALONG WALKOUT/DAYLIGHT WALL - LSTA18 STRAP WITH (12) 10D X 1-1/2" NAILS (FOR STRAPS INSTALLED OVER SHEATHING, USE A 2-1/2" LONG FASTENER, MINIMUM) MAIN FLOOR TO FOUNDATION WALL - STHD14 EMBEDDED HOLDOWN INSTALLED PER MANUFACTURER'S SPECS

EXTERIOR BRACING PFH PER IRC R602.10.5

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



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

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 FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2x6 STUDS FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

APA SIMPLIFIED WALL BRACING (SYSTEM REPORT SR102-D)

METHOD SHALL BE CS-WSP WITH INCREASED SHEATHING THICKNESS (PERFORMANCE CATEGORY).

WSP SHEATHING SHALL BE RATED SHEATHING MINIMUM 7/16 PERFORMANCE CATEGORY MEETING REQUIREMENTS OF DEPARTMENT

OF COMMERCE DOC PS1 OR PS2 (VOLUNTARY PRODUCT STANDARDS). PS2-10 TABLE D1 RECOMMENDED THICKNESS LABELING FOR PANELS:

7/16 PERFORMANCE CATEGORY-MINIMUM THICKNESS OF .406 INCHES (10.32 MM)

MAXIMUM THICKNESS .469 INCHES (11.91 MM) RECOMMENDED THICKNESS LABEL - THICKNESS .418 IN.

NAIL SIZE SHALL BE 8D HAVING A DIAMETER OF .131" AND LENGTH OF

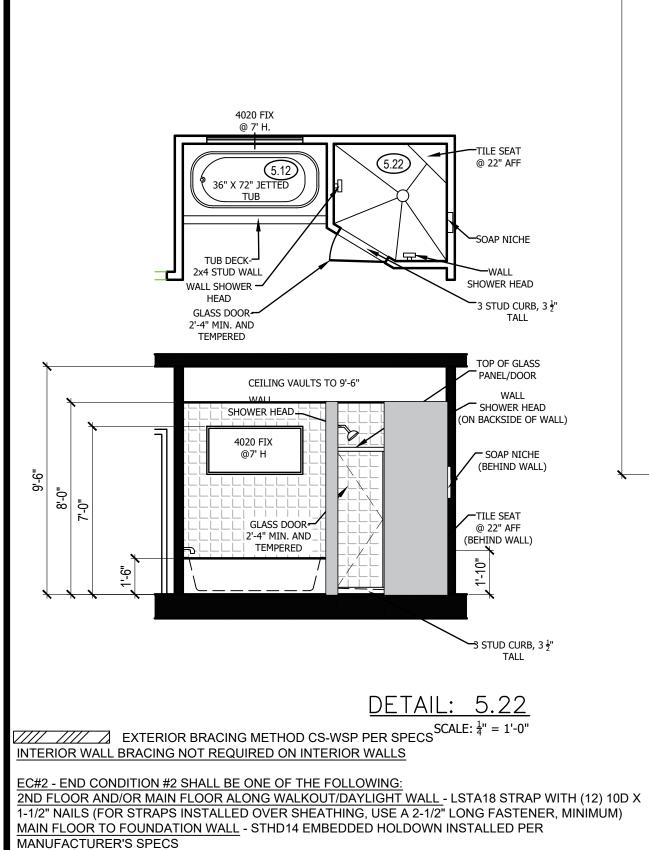
2.5". CLOSER NAILING SCHEDULE ON FIRST STORY OF 2ND STORY

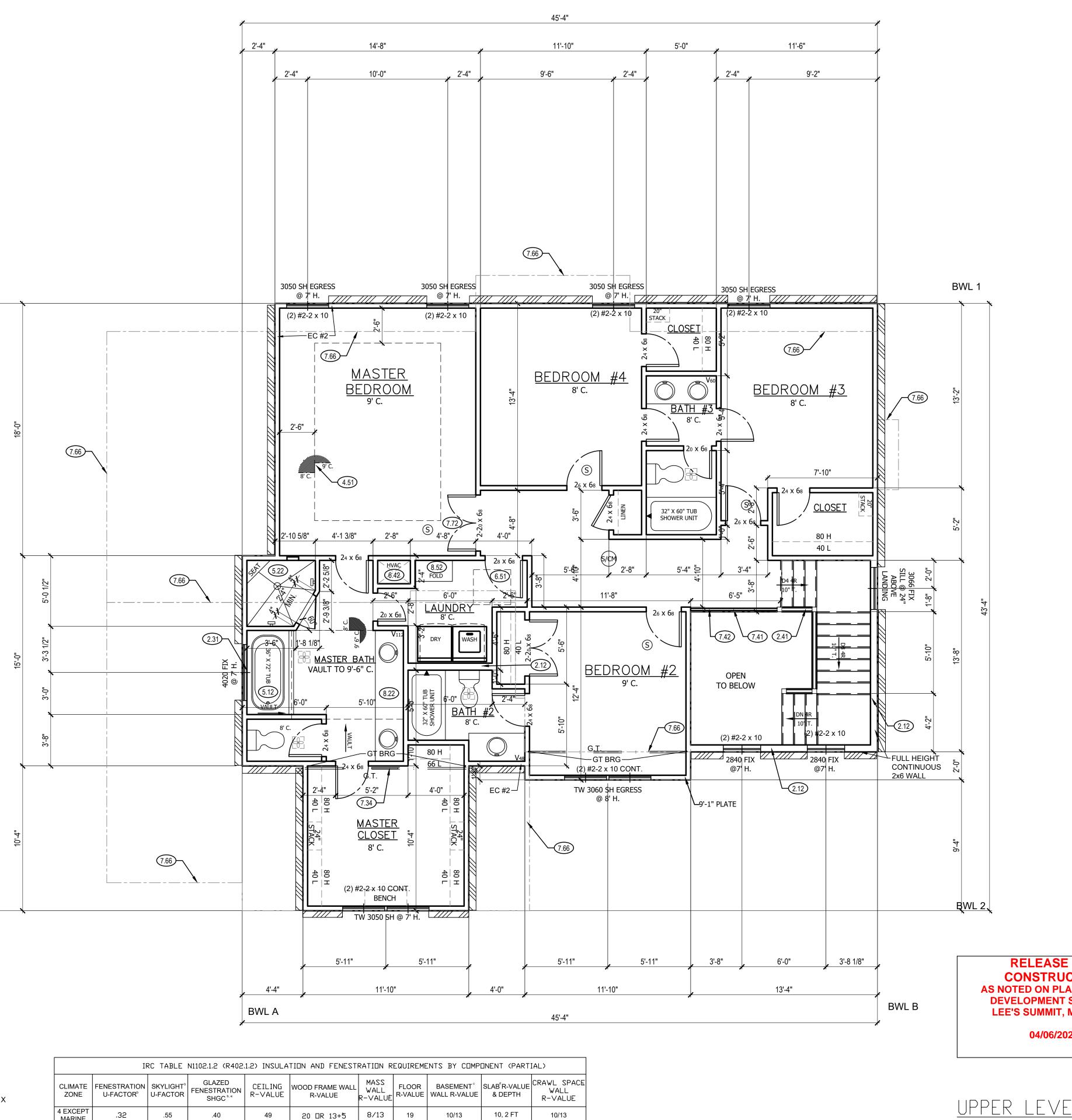
SHEATHING SHALL BE INSTALLED WITH A MINIMUM 8D COMMON NAILS SPACED AT 4" OC AT PANEL EDGES AND AT 12" OC OVER INTERMEDIATE SUPPORTS. FOR SINGLE STORY OR TOP OF TWO OR THREE STORY BUILDINGS,

SHEATHING MAY BE INSTALLED WITH 8D COMMON NAILS SPACED AT 6" OC AT PANEL EDGES AND 12" AT INTERMEDIATE SUPPORTS.

SHEATHING SHALL BE INSTALLED OVER ALL AREAS EXCLUDING WINDOWS AND DOORS AND INCLUDING GABLE ENDS.

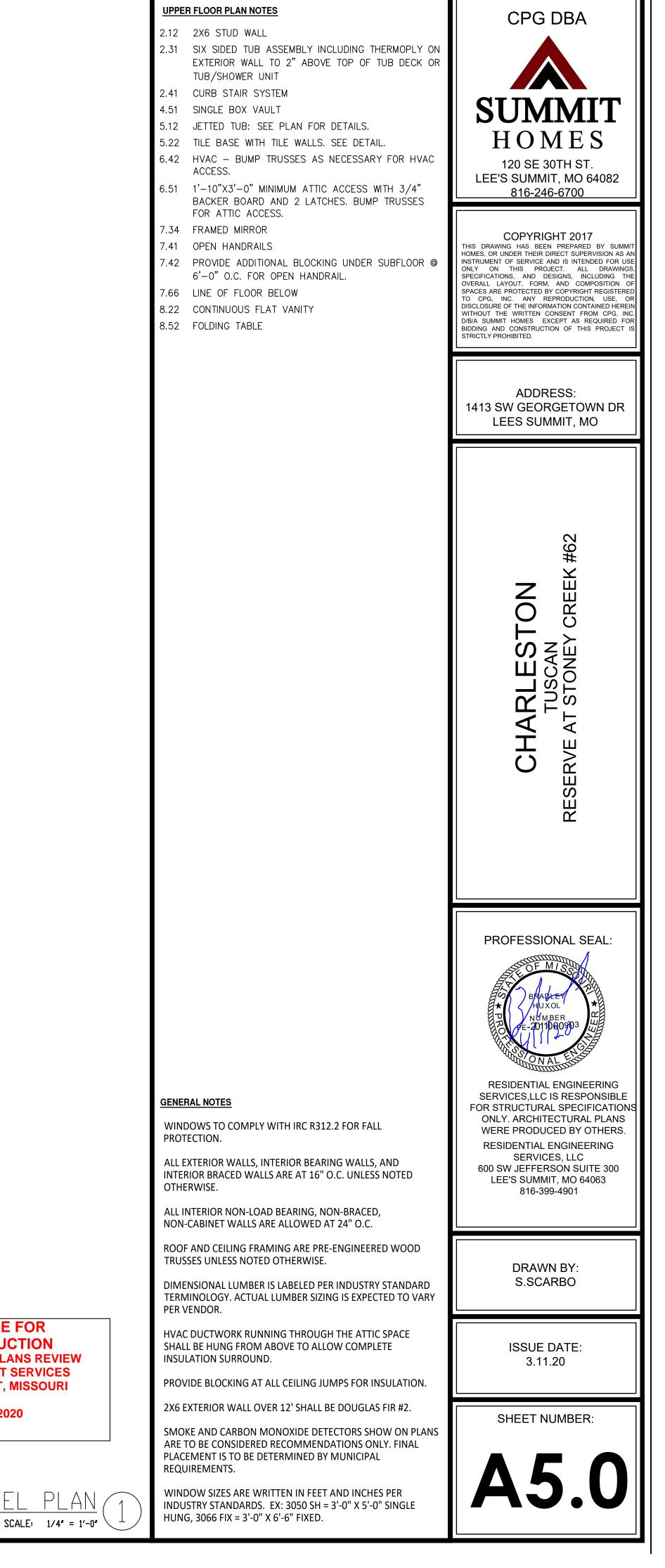
ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER AND BE NAILED TO COMMON FRAMING OR BLOCKING WITH AN APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE WITH IRC R602.10.10.





CLIMATE ZONE	FENESTRATION U-FACTOR ^⁵	SKYLIGHT [®] U-FACTOR	GLAZED FENESTRATION SHGC ^{b, e}	CEILING R-∨ALUE	v
4 EXCEPT MARINE	.32	.55	.40	49	

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



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

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

TOP CHORD: LIVE LOAD/SNOW LOAD (PSF): 25 DEAD LOAD (PSE): 10

- DEAD LOAD (PSF): BOTTOM CHORD:
- DEAD LOAD(PSF):
- 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.
- 4) 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

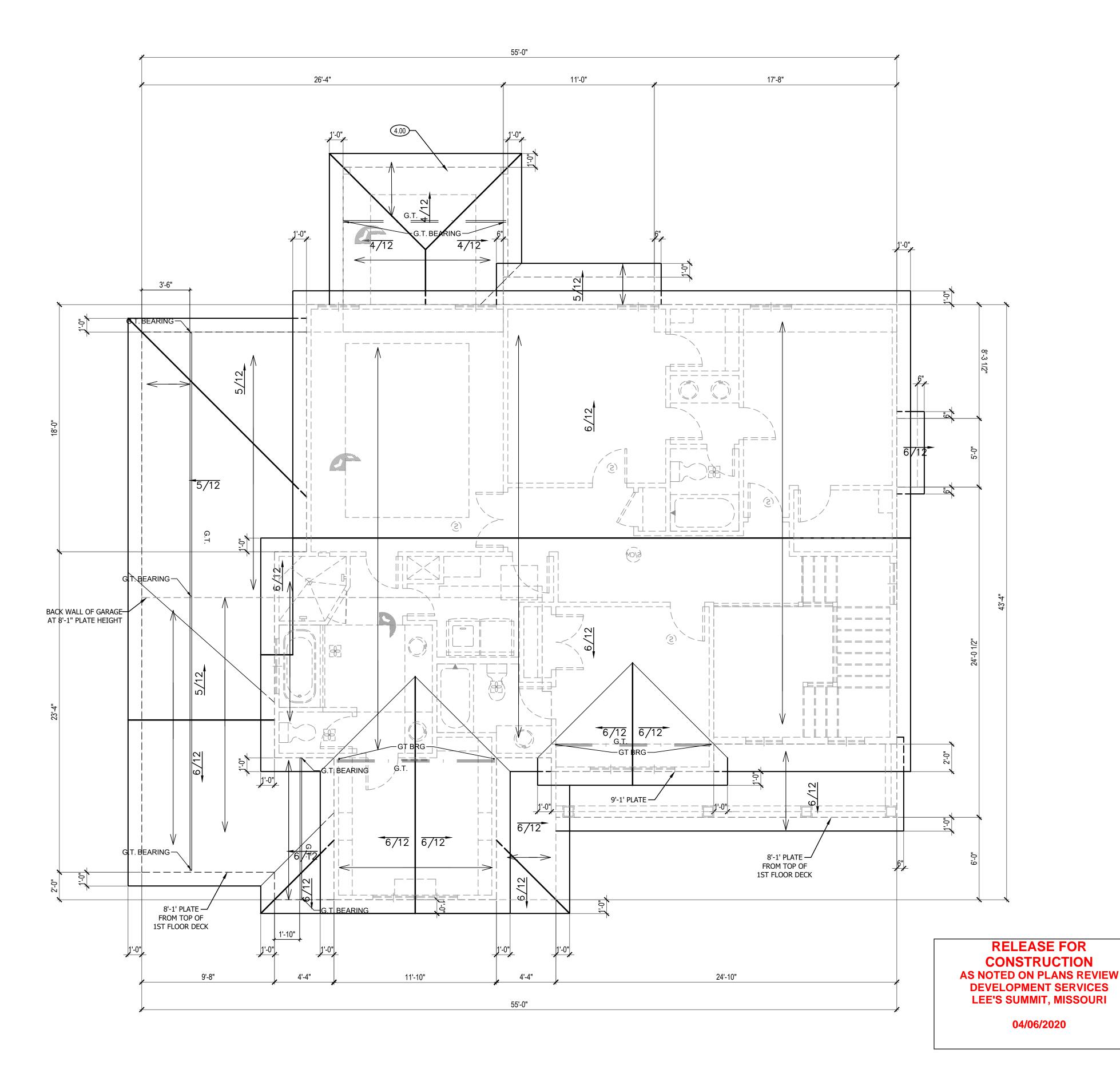
NOTE:

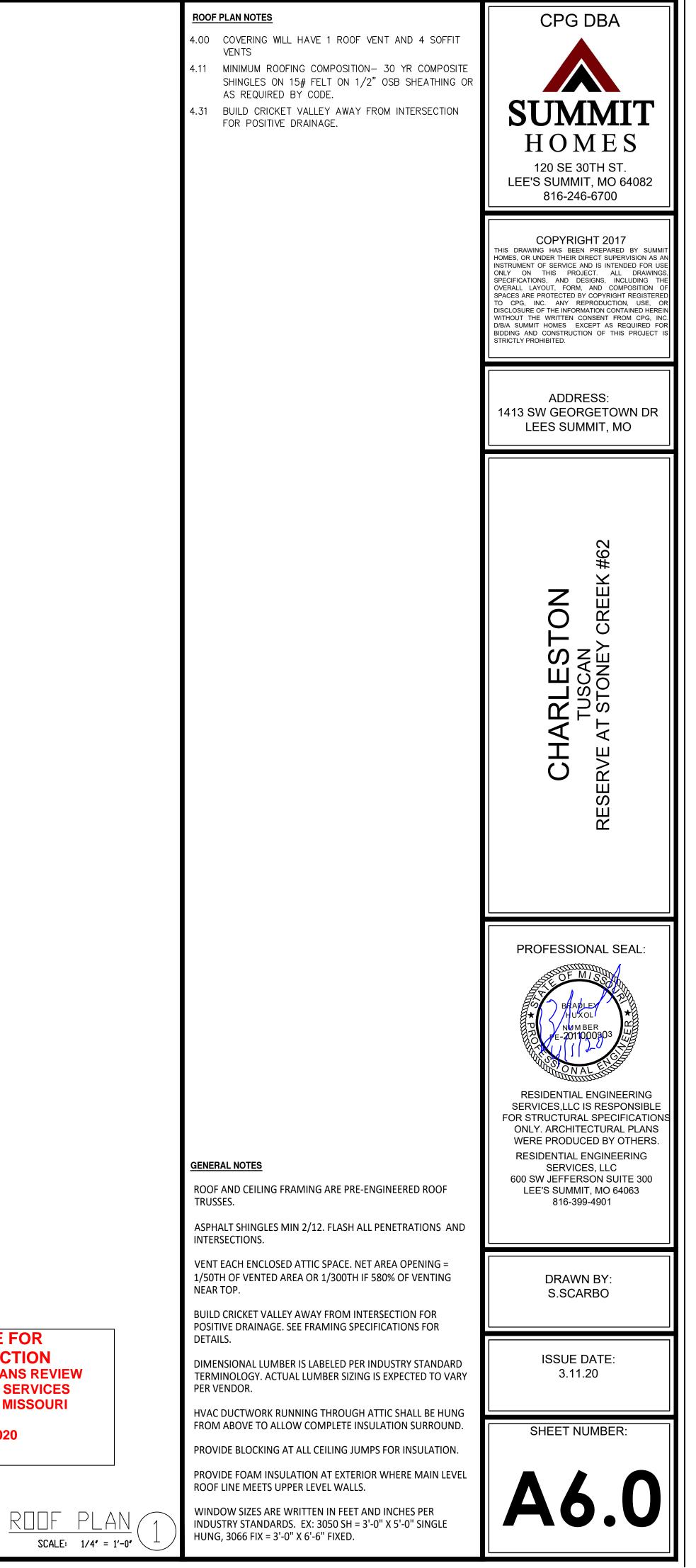
ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

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, R802.3.1, R802.11.





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 II	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 MEASURED FROM THE BOTTOM OF CONCRETE ON</u> 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 T 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 REINFORC SHALL BE ENGINEERED DESIGN. FOOTINGS UNDER F THE STRUCTURE AND FROM ONE LEVEL TO THE NEXT FOOTINGS AT DIFFERENT LEVELS ENCLOSING USABL JUMPS OR SUPPORT SYSTEMS TO PROVIDE SAFE SUI FOOTING/FOUNDATION WALLS/STANDARD SLAB AT MA DIAGRAMS FOR MORE DETAIL (PER KC, MO STANDARI

<u>CONCRETE</u>

- 1. ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-11 AND THE 2018 INTERNATIONAL RESIDENTIAL CODE.
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2.
- 3. CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS. ALL CONCRETE TO HAVE MAXIMUM 0.10 PERCENT WATER SOLUBLE CHLORIDE CONTENT BY WEIGHT OF CEMENT. ADMIXTURES SHALL NOT CONTAIN ANY CHLORIDES.
- 4. CONCRETE POURED AGAINST AN EXISTING SURGACE SHOULD BE ROUGHENED TO A MINIMUM 1/4 INCH AMPLITUDE.
- 5. REBAR CLEAR DISTANCE SHALL BE AS FOLLOWS: -CAST AGAINST AND PERMANENT CONTACT WITH GROUND3 IN -EXPOSED TO WEATHER OR IN CONTACT WITH GROUND - NOT EXPOSED TO WEATHER OR GROUND
- 6. CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS, OR FLATWORK EXPOSED TO WEATHER.
- 7. SHORING AND RESHORING: BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28

DAYS -SHORING MAY NOT BE REMOVED SOONER THAN RECOMMENDED BY ASTM 374-04 SECTION 3.7.2.3.

MINIMUM STANDARDS:

CONCRETE SHALL BE 6% (± 1%) AIR-ENTRAINED FOR GARAGE SLABS AND FOR ALL LOCATION'S FOOTINGS, WALLS OR FLATWORK WHERE EXPOSED TO WEATHER. REBAR SHALL BE MINIMUM 40 KSI UNLESS NOTED OTHERWISE. REINFORCING BAR SHALL BE GRADE 40 MINIMUM.

CONCRETE REINFORCEMENT STEEL

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40.
- 2. SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 4. DEVELOPMENT LENGTH NOTED IS EQUAL TO 80% OF THE LENGTH NOTED IN THE LAP SPLICE SCHEDULE.
- 5. 90% HOOK SHOWN IN DRAWINGS SHALL BE STANDARD PER ACI 318-14 -STRAIGHT EXTENSION LENGTH = $12xØ_{BAR}$ -BEND DIAMETER = $12XØ_{BAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)
- 7. HOOKED DOWELS:
- REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF FOUNDATION
- 8. PROVIDE 2 #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS
- 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.
 - C. HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR); AND
 - BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE 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	OTHEF	RBARS		
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		

RS SHALL BE SUPPORTED ON CONTINUOUS SOLID
STRUCTURAL SYSTEM TO SAFELY SUPPORT THE
CED IN ACCORDANCE WITH THIS STANDARD OR
OUNDATION WALLS SHALL BE CONTINUOUS AROUND
T. THE CONTINUOUS TRANSITIONS BETWEEN
E SPACE SHALL BE MADE BY APPROVED SOLID
PPORT OF THE STRUCTURE. SEE "TYPICAL
AXIMUM 4" OVER-DIG AND "FOOTING JUMP"
DS)

2 IN 1.5 IN

-SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS

3. ALL REBAR LAP SPLICES SHALL BE CLASS B LAP SPLICES AS SHOWN ON THE LAP SPLICE SCHEDULE.

7.1. HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL 7.2. HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO FOUNDATION

9. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD

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.

D. SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE 1 #4 REBAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE

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

STEEL DECK - SUSPENDED SLABS

1. STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.

2. STEEL ROOF DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

- WIDE RIB CONFIGURATION
- 1.5" DEPTH 24GA DESIGN THICKNESS
- MAXIMUM SINGLE SPAN OF 4'-8" OR CONTINUOUS SPAN OF 5'-10"
- GALVANIZE PER ASTM A653 OR SHOP PRIME PER ASTM A1008
- ATTACH STEEL ROOF DECK TO SUPPORTS WITH #12 TEK AT 18" O.C. ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR MID-SPAN, WHICHEVER IS SMALLER
- 3. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF COVERING.
- 4. STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:
- 2" COMPOSITE DECK WITH 6" TOTAL SLAB THICKNESS
- 22GA DESIGN THICKNESS MAXIMUM SINGLE SPAN DURING CONSTRUCTION OF 6'-1" OR CONTINUOUS SHORED SPAN OF 7'-5"
- MAXIMUM SPAN SHALL NOT EXCEED 12'-6" PROVIDE W2.1xW2.1 WELDED WIRE MESH OR #4 @ 12" O.C. EACH WAY. PROVIDE 2" REBAR
- COVER MEASURED FROM TOP OF THE SLAB GALVANIZE PER ASTM A653
- MINIMUM BEARING LENGTH AT EDGE SUPPORTS IS 2"
- MINIMUM BEARING LENGTH AT INTERIOR SUPPORTS IS 4"

COLUMN CLOSURES, END PLATES, AND COVER PLATES AS NEEDED.

- ATTACH STEEL COMPOSITE FLOOR DECK TO SUPPORTS WITH 5/8" ARC PUDDLE WELDS AT 12" O.C. MECHANICAL FASTENERS EITHER POWDER ACTUATED, PNEUMATICALLY DRIVEN, OR SCREWS MAY BE USED IN LIEU OF WELDING PROVIDED THEY ARE APPROVED. • ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR
- MID-SPAN, WHICHEVER IS SMALLER. 5. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY POUR STOPS,

STRUCTURAL STEEL

- STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 2. STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS: 2.1. HOLLOW STRUCTURAL SECTIONS: ASTM A500 (Fy = 46 KSI)
- CHANNELS, PLATES, ANGLES, WIDE FLANGES, ADN COLUMNS: ASTM A36 (Fy = 36 KSI) 2.2. 2.3. ANCHOR RODS: ASTM F1554 (Fy = 36 KSI)
- 3. BOLTS SHALL CONFORM TO ASTM A307
- WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.
- WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OR 3/16" SIZE UNLESS NOTED OTHERWISE.
- 6. ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR'S OPTION IF ERECTION CAN STILL BE EXECUTED.

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

04/06/2020

ENERGY REQUIREMENTS:

GARAGES:

- ABOVE.
- PER R302.5.1.

STAIRWAYS:

GLAZING

1. 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".

FRAMING NOTES:

- WALLS.

- **RELEASE FOR**

1. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED, AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER N1102.4.4.'

2. PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.2.2.1.

3. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER N1103.2.2.1.

4. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE AS REQUIRED PER N1103.2.3.

5. HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4.

6. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER M1507.2

7. MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER M1503.4.

8. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL SHALL NOT BE USED AS RETURN AIR PLENUMS UNLESS THE REQUIRED INSULATION BARRIER IS MAINTAINED PER M1601.1.1.

9. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6 ENERGY CONSERVATION.

1. THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.

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

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

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

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

6. SELF CLOSING DEVICES SHALL BE INSTALLED FOR GARAGE AND/OR DWELLING SEPARATION DOORS

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

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

2. PROVIDE GUARD RAILS BETWEEN 36" GUARD RAILS ON THE OPEN SIDES OF RAISED FLOORS. PORCHES AND BALCONIES; MINIMUM 34" GUARD RAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW.

3. GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.

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

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

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

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

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	OCATION 21 JOST TO SILL TOP PLATE OR GRDER 4-00 EOX (2-1/2* 3-00 COMMON (2- 3-00 EOX (2-1/2*)) L 21 JOST TO SILL TOP PLATE OR GRDER 4-00 EOX (2-1/2*) 22 RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 40 EOX (2-1/2*) 23 1*X6* SUBFLOOR OR LESS TO EACH JOIST 34 EOX (2-1/2*) 14 23 1*X6* SUBFLOOR TO JOIST OR GRDER 34 EO EOX (2-1/2*) 14 24 2* SUBFLOOR TO JOIST OR GRDER 34 EO EOX (2-1/2*) 14 24 2* SUBFLOOR TO JOIST OR GRDER 34 EO EOX (2-1/2*) 150 EOX (2-1/2*) 4.10 EOX (2-1/2*) 34 EO EOX (2-1/2*) 161 EOX (2-1/2*) 34 EO EOX (2-1/2*) 34 EO EOX (2-1/2*) 172 SUBFLOOR TO JOIST OR GRDER 34 EO EOX (2-1/2*) 180 EOX (2-1/2*) 34 EO EOX (2-1/2*) 34 EO EOX (2-1/2*) 180 EOX (2-1/2*) 34 EO EOX (2-1/2*) 34 EO EOX (2-1/2*) 180 EOX (2-1/2*) 34 EO EOX (2-1/2*) 34 EO EOX (2-1/2*) 180 EOX (2-1/2*) 34 EO EOX (2-1/2*) 34 EO EOX (2-1/2*) 180 EOX (2-1/2*) 34 EO EOX (2-1/2*) 34 EO EOX (2-1/2*)	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		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		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			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	· · · · · · · · · · · · · · · · · · ·	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	, , , , , , , , , , , , , , , , , , , ,	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 EACH SPLICE	
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		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	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		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				SPACING OF FASTENERS	
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		NUMBER AND TYPE OF FASTENER		FERMEDIAT
		16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL		ELEMENTS NUMBER ANI 6d COMMON (2"xr WALL)	6d COMMON (2"x0.113") NAILS (SUBFLOOR,		
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)			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		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		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 SPACING BETWEEN ROWS (INCHES)		

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

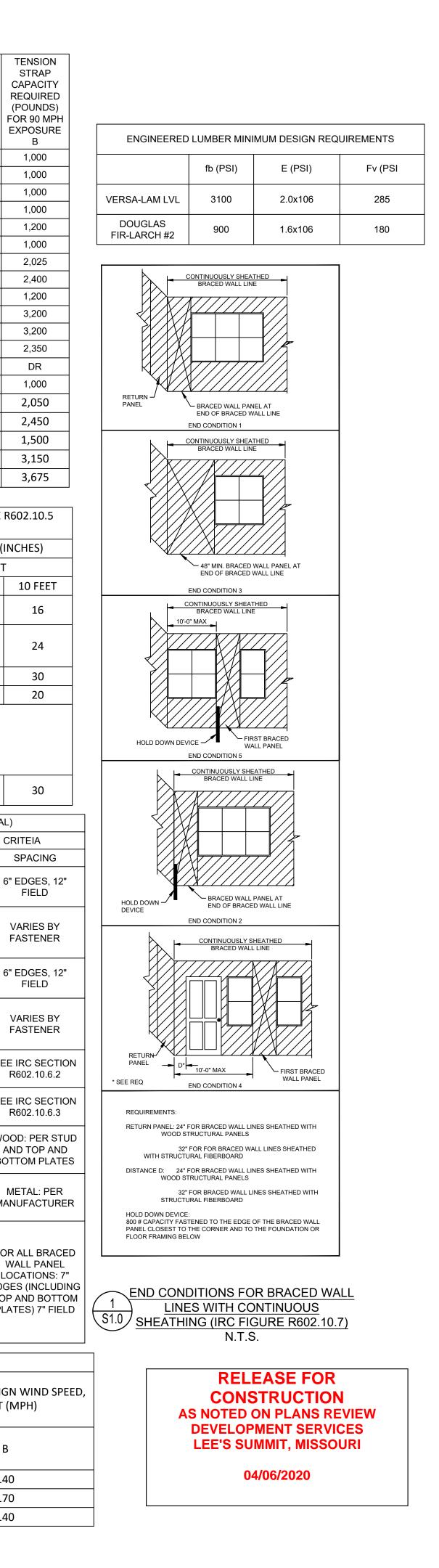
MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (FEET)	MAXIMUM TOTAL WALL HEIGHT (FEET)	MAXIMUM OPENING WIDTH (FEET)	(F (E
	0	10	18	
			9	
	1	10	16	
			18	
			9	
	2	10	16	
2x4 NO 2 GRADE			18	
<u> </u>		12	9	
	2		16	
			18	
			9	
	4	12	16	
			18	
			9	
	2	12	16	
2x6 STUD			18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

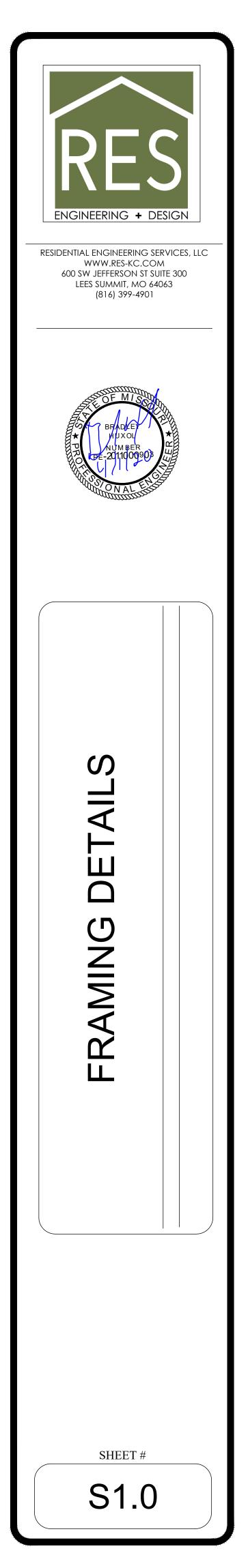
MINIMUN	M LENGTH OF BRA	ACED WALL F (PARTIAL)	PANELS TABLE	Re		
		MINIMUM LENGTH (IN				
M	ETHOD		WALL HEIGHT	-		
		8 FEET	9 FEET			
	SUPPORTING ROOF ONLY	16	16			
PFH	SUPPORTING ONE STORY AND ROOF	24	24			
	PFG	24	27			
0	CS-PF	16	18			
CS-WSP	ADJACENT CLEAR OPENING HEIGHT (INCHES)					
	LESS THAN OR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

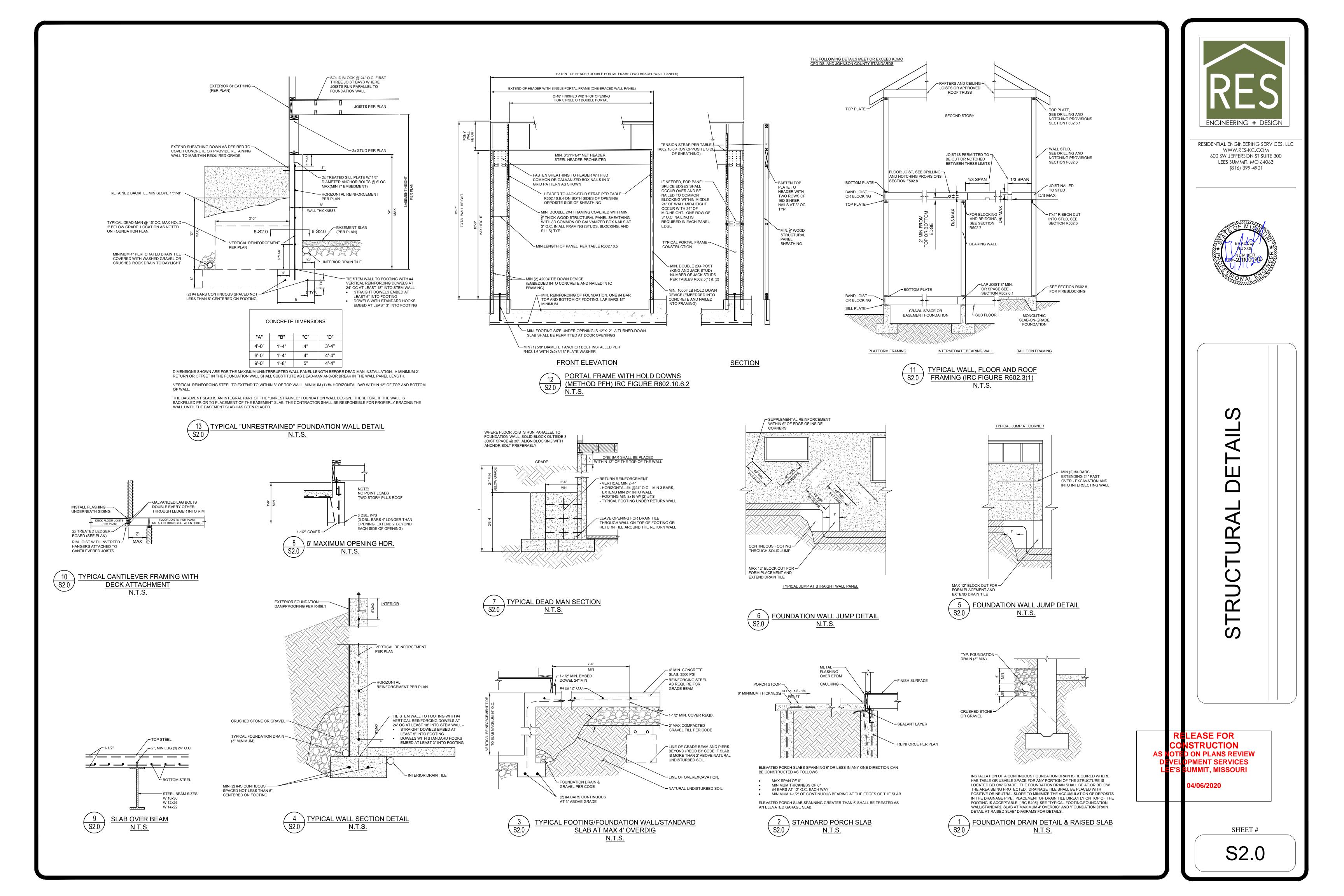
BRA	BRACING METHODS TABLE R602.10.4 (PARTIA					
METHODS,	MINIMUM	CONNECTION CR				
MATERIAL	THICKNESS	FASTENERS				
WSP - WOOD		EXTERIOR SHEATHING PER TABLE R602.3(3)	6"			
STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	V F			
CS-WSP CONTINUOUSLY		EXERIOR SHEATHING PER TABLE 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 DEGREE ANGLES FOR MAX 16" STUD SPACING	WOOD: 2-8d COMMON NAILS OR 3-8d NAILS	WOO AN BOT			
LET-IN-BRACING		METAL STRAP: PER MANUFACTURER	M MAN			
GB-GYPSUM	1/2	NAILS OR SCREWS PER TABLE R602.3(1) FOR EXTERIOR LOCATIONS	FOR W/ LOC EDGE TOP / PLAT			
BOARD	172	NAILS OR SCREWS PER TABLE R702.3.5 FOR INTERIOR LOCATIONS				

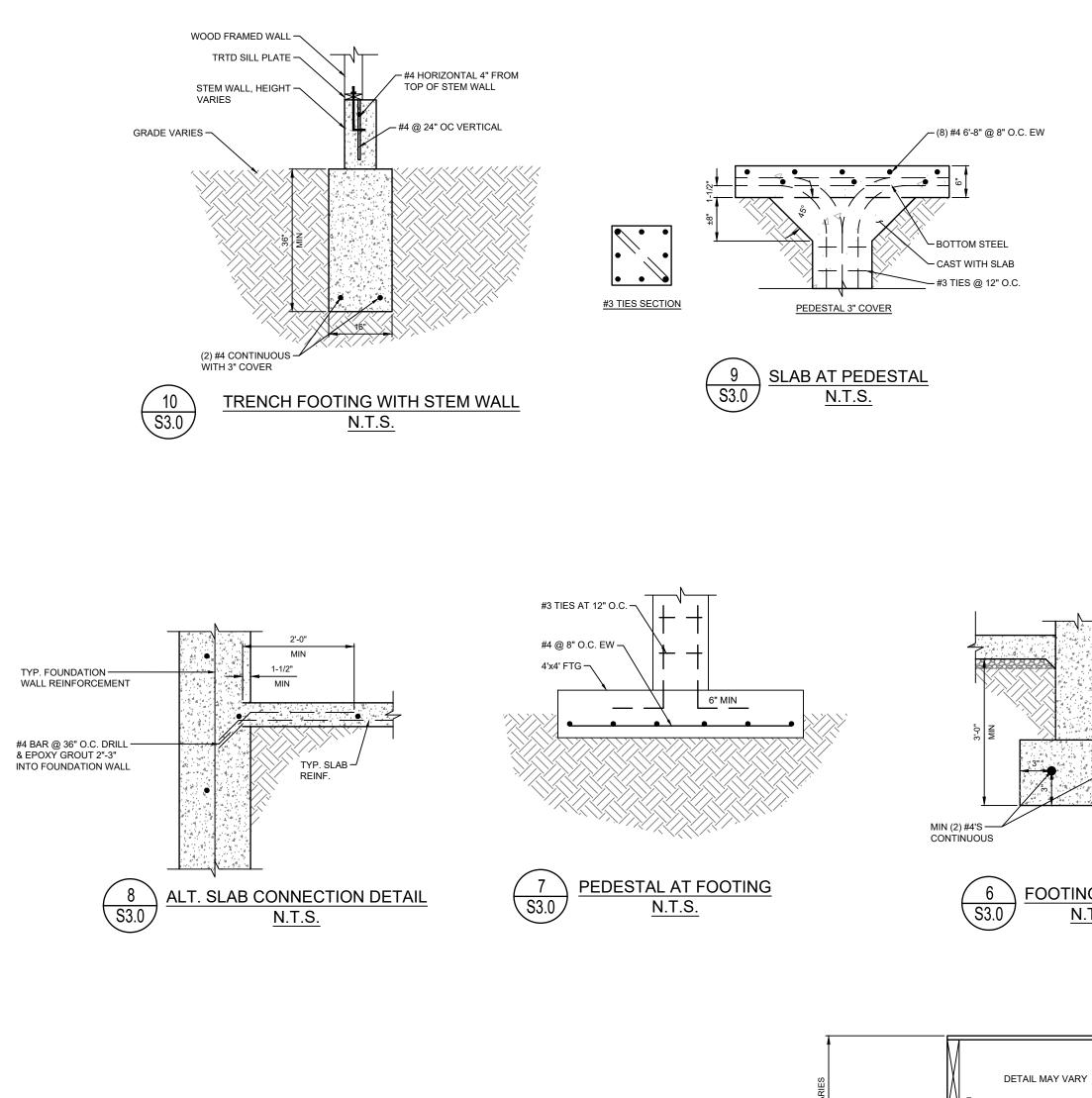
TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS							
MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)							
TOP EDGE		BOTTOM EDGE	ENDS	ROW SPACING			
LEDGER	2	1/4	2	1-5/8			
BAND JOIST 3/4		2	2	1-5/8			

REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL)								
	MINIMU	IM NAIL	MINIMUM WOOD STRUCTURAL	MINIMUM NOMINAL PANEL THICKNESS (IN)	MAX WALL STUD SPACING	PANEL NAIL SPACING		ULTIMATE DESIGN V V ULT (MP
	SIZE	PENETRATION (IN)	PANEL SPAN RATING			EDGES (IN O.C.)	FIELD (IN O.C.)	В
	6d COMMON	1.5	24/0	3/8	16	6	12	140
8	8d COMMON 1.75 24/16	7/16	16	6	12	170		
		VION 1.75 24/10	24/10	//10	24	6	12	140

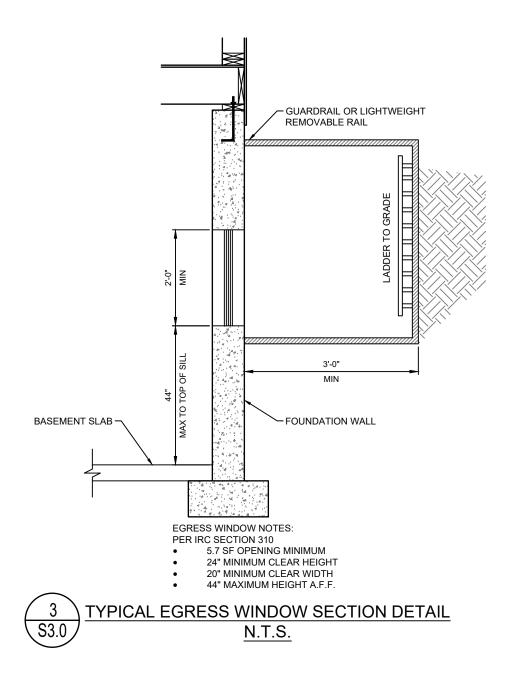


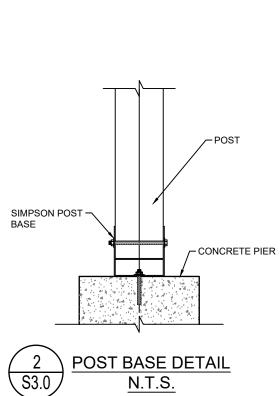


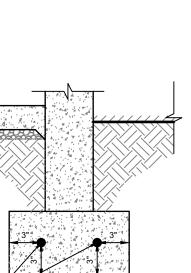




THE FOLLOWING DETAILS MEET OR EXCEED KCMO CPD-DS, AND JOHNSON COUNTY STANDARDS









2x LEDGE 1-1/2" MIN BEARING

- DOWELS #4'S @ 12" O.C.

4 SLAB AT WALL

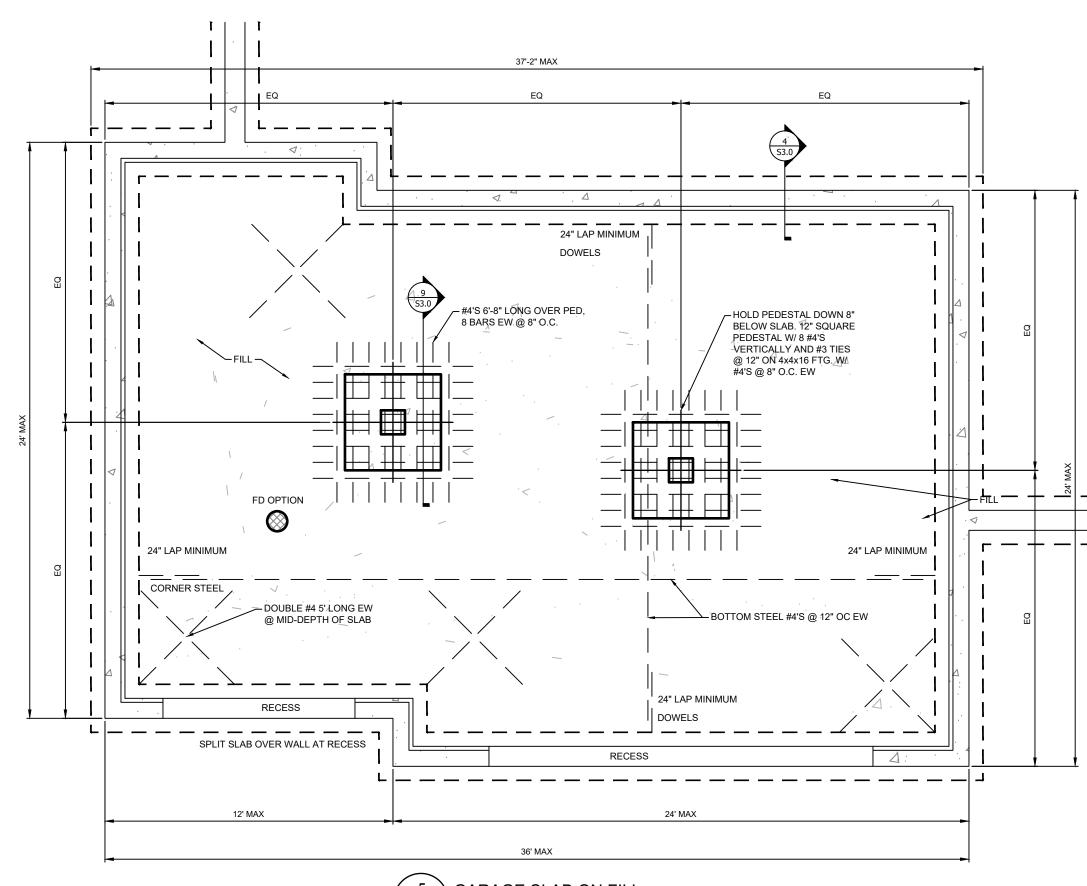
24" LAP MINIMUM

S3.0

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•||

N.T.S.



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

