

# RODF SCALE: 1/4'' = 1'-0''

#### ALL RAFTERS SHALL BE 2" X 6" #2 @ 16" D.C., unless noted otherwise.

Flashing Note:

DRIP EDGE, VALLEYS AND FLASHINGS TO BE METAL CLAD.

ROOF NOTES: Roof designed for light roof covering 30psf TOTAL LOAD [10psf DL, 20psf LL (SL)]

\* RAFTERS (HEM-FIR, DOUG-FIR, DR EQUAL): see span charts below

### <u>Code</u> Minimum

	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN	
	#2-2x6	024 <b>"</b> D.C.	11′-7 <b>′</b>	
<b>}</b> }	#2-2x6	<b>0</b> 16 <b>°</b> D.C.	14'-2 <b>'</b>	<b>///</b>
	#2-2x8	024 <b>"</b> D.C.	14'-8 <b>'</b>	
	#2-2x8	<b>@16*</b> D.C.	17'-11 <b>'</b>	
	#2-2x10	024 <b>"</b> D.C.	17'-10 <b>'</b>	
	#2-2x10	<b>@16*</b> D.C.	21′-11 <b>′</b>	
	NOTE: COD	e minimum all	OWS FOR A RAFTER DEFLECTION	

of l/180 total load

HIGHER PERFORMANCE (RECOMMENDED)

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN	
#2-2x6	024 <b>"</b> D.C.	8′-6 <b>′</b>	
#2-2x6	<b>@16*</b> D.C.	9′-9 <b>′</b>	
#2-2x8	024 <b>"</b> D.C.	11'-3 <b>'</b>	
#2-2x8	<b>@16*</b> D.C.	12'-9 <b>'</b>	
#2-2x10	024 <b>"</b> D.C.	14'-3 <b>'</b>	
#2-2x10	<b>@16*</b> D.C.	16'-3 <b>'</b>	

DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD

¥ VAULTS T⊡ BE 2x10 DEPTH

\* RIDGE BOARDS ARE: (UNLESS OTHERWISE NOTED) - #2- 2X8 UP TO 10/12 PITCH

- #2- 2X10 DVER 10/12 PITCH

\* All HIPS & VALLEYS ARE: (UNLESS OTHERWISE NOTED) - #2- 2X8 UP TO 10/12 PITCH

- #2- 2X10 OVER 10/12 PITCH \* PURLINS ARE 2X6 MIN.

- PURLIN STRUTS ARE AT 4'-0" D.C.

- PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS

Than a 45 degree angle with the horizontal - ALL PURLINS STRUTS SHALL HAVE A MAXIMUM

unbraced length of 8'-0**'** 

- PURLINS STRUTS SHALL BE CONSTRUCTED IN A

'T' Configuration and per the following chart:

PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8'-0"
(1) 2x4 & (1) 2x6	12'-0 <b>'</b>
(1) 2x6 & (1) 2x8	20'-0 <b>'</b>
(2) 2x6 & (1) 2x8	30'-0'
CONSULT ARCH./ENGR. >	30'-0 <b>'</b>

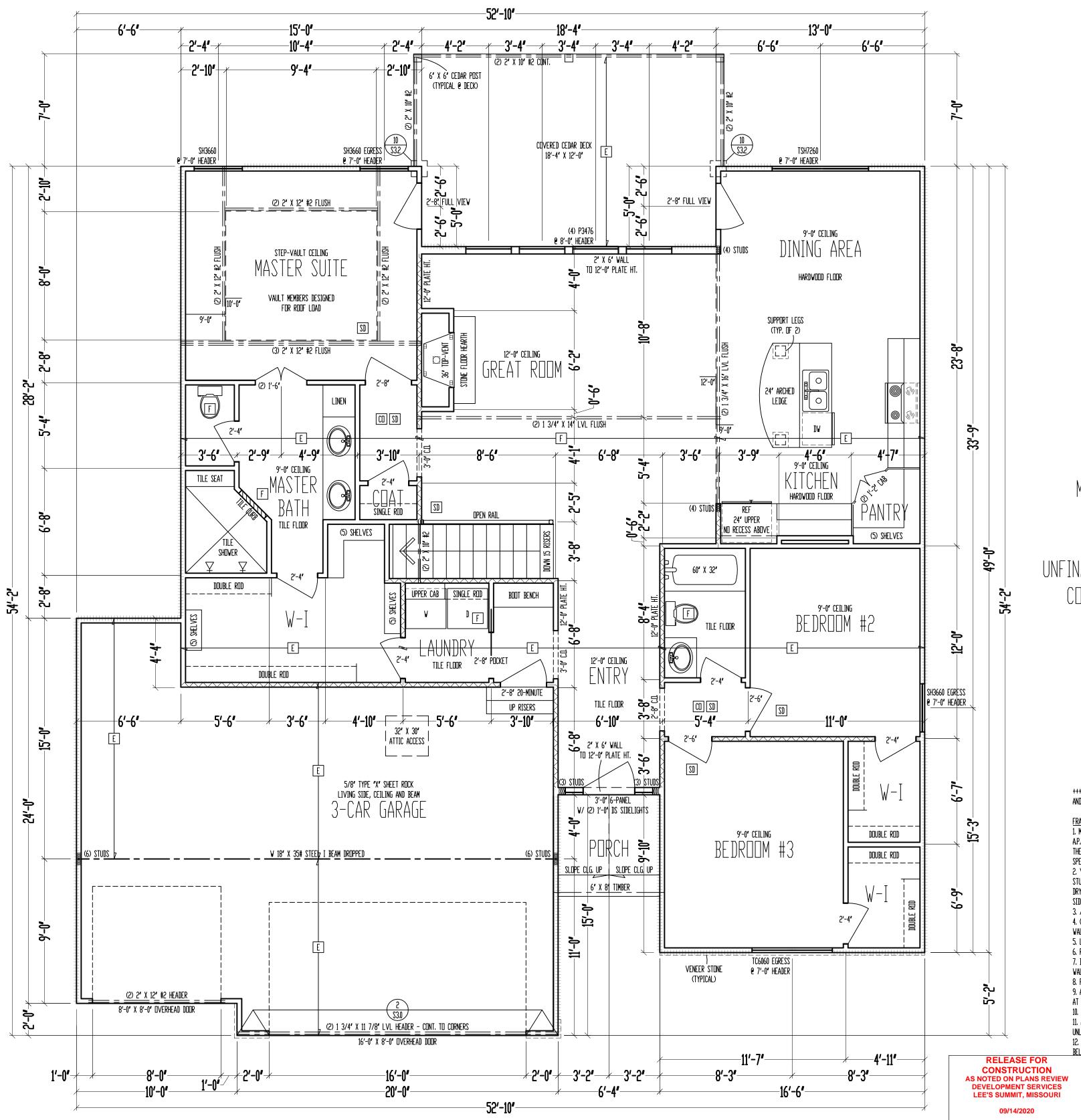
\* RIDGE BRACES ARE SAME AS PURLIN BRACES-SPACING, SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE) \* HIP & VALLEY BRACES ARE SAME AS PURLIN SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

\* Vertical brace if dot is under hip or valley \* Slash is top end of brace ( / ), DOT IS BOTTOM OF BRACE ( o ). 

$\mathbf{x}$	∕ ∽ DENUTES	BEAKING WALL
×—— — —	DENOTES	Roof Brace
×—— — —	DENOTES	PURLIN
×—— — —	DENOTES	BEARING STRUCTURE

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

09/14/2020



# 9'-0" CEILING MAIN LEVEL SCALE: 1/4" = 1'-0"

MAIN LEVEL: 1750 SQ. FT.

GARAGE: 658 SQ. FT. UNFIN. BASEMENT: 1569 SQ. FT. COV. DUT/LIV: 227 SQ. FT.

JOIST SCHEDULE				
E	2" X 6" #2 CEILING JOIST € 16" D.C.			
F	2" X 8" #2 CEILING JOIST @ 16" D.C.			

++++++ = Wall Bracing Per Framing Note #1 and Per Calculations on Sheet \$1.1.

#### <u>Framing Notes</u>

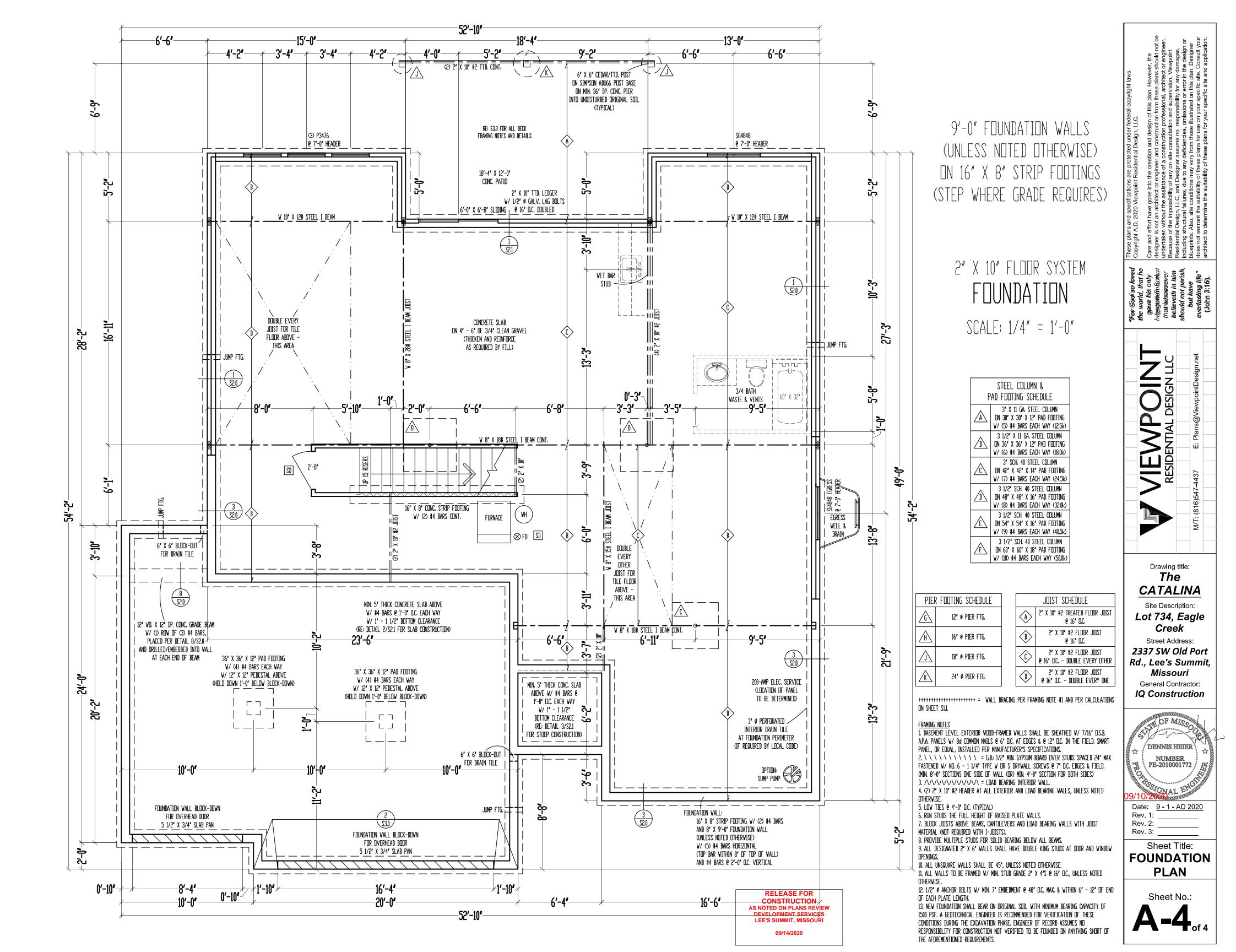
**1.** MAIN LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16' D.S.B. A.P.A. PANELS W/ 8d CDMMON NAILS @ 6' D.C. AT EDGES & @ 12' D.C. IN THE FIELD. SWART PANEL, DR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS. 2. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ C B. EDGES & E D. THE FIELD OVER STUDS SPACED 24' MAX FASTENED W/ ND. 6 - 1 1/4' TYPE W DR S

DRYWALL SCREWS @ 7' D.C. EDGES & FIELD. (MIN. 8'-O' SECTIONS DNE SIDE OF WALL (OR) MIN. 4'-O' SECTION FOR BOTH SIDES) 3. /\/\/\/\/\/\/\/\/\/\/\/\/ = LOAD BEARING INTERIOR WALL. 4. (2) 2' X 10' #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE. 5. LOW TIES @ 4'-O' D.C. (TYPICAL) 6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS. 7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS). 8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS. 9. ALL DESIGNATED 2' X 6' WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW OPENINGS.

10. ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE. 11. ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2' X 4'S @ 16' D.C., UNLESS NOTED OTHERWISE.

12. Exterior vall bottom plates shall be nailed to framing <u>Belo</u>v with 16d common nails @ 8' D.C. Max. (Where Applicable.)

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"For God so loved the world, that he	gave his only begotten Son, that whosoever believeth in him	should not perish, but have everlasting life"	(John 3:16).		
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Drawing title: The CATALINA Site Description: Lot 734, Eagle Creek Street Address: 2337 SW Old Port Rd., Lee's Summit, Missouri General Contractor: IQ Construction DENNIS HEIER NUMBER PE-2010001772					
Date: 9-1-AD 2020 Rev. 1: Rev. 2: Rev. 3: Sheet Title: MAIN LEVEL PLAN					
Sheet No.: <b>A-3</b> of 4					



FASTENER SCHEDULE FOR STRUCTURAL MEMBERS					
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION			
	ROOF				
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	4-8d (2½" x 0.113")	TOENAIL			
CEILING JOISTS TO PLATE, TOE NAIL	4-8d (2½" x 0.113")	PER JOIST, TOENAIL			
CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, FACE NAIL	4-10d (3" x 0.128")	FACE NAIL			
CEILING JOIST TO PARALLEL RAFTER (HEEL JOINT)	TBLE R802.5.2	FACE NAIL			
COLLAR TIE TO RAFTER, FACE NAIL OR 1 $\frac{1}{4}$ x 20 GA. RIDGE STRAP TO RAFTER	4-10d (3" x 0.128")	FACE NAIL, EACH RAFTER			
RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX NAILS (3½" x 0.135") OR 3-10d COMMON NAILS (3" x 0.148")	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS			
ROOF RAFTERS TO RIDGE, VALLEY, OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-16d (3 ½" x 0.135") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL	TOENAIL, END NAIL			
	WALL				
STUD TO STUD (NOT AT BRACED WALL PANELS)	10d (3" x 0.128")	16" O.C. FACE NAIL			
STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d (3½" x 0.135")	12" O.C. FACE NAIL			
BUILT-UP HEADER, TWO PIECES WITH ½" SPACER	16d (3½" x 0.135")	12" O.C. EACH EDGE FACE NAIL			
CONTINUOUS HEADER TO STUD	4-8d (2½" x 0.131")	TOENAIL			
TOP PLATE TO TOP PLATE	10d (3" x 0.128")	12" O.C. FACE NAIL			
DOUBLE TOP PLATE SPLICE	8-16d COMMON (3 <sup>1</sup> / <sub>2</sub> " x 0.162")	FACE NAIL ON EACH SIDE OF END JOINT (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)			
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 <sup>1</sup> / <sub>2</sub> " x 0.162")	16" O.C. FACE NAIL			
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (AT BRACED WALL PANEL)	3-16d BOX (3 ½" x 0.135")	3 EACH 16" O.C. FACE NAIL			
TOP OR SOLE PLATE TO STUD, END NAIL	4-8d BOX (2 ½" x 0.113") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL	TOENAIL, END NAIL (SEE LEFT)			
TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128")	FACE NAIL			
1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 ½" x 0.113")	FACE NAIL			
1"x6" SHEATHING TO EACH BEARING	3-8d BOX (2 ½" x 0.113")	FACE NAIL			
1"x8" SHEATHING TO EACH BEARING	3-8d BOX (2 ½" x 0.113") - FACE NAIL; WIDER THAN 1"x8" - 4-8d BOX (2 ½" x 0.113")	FACE NAIL			
	FLOOR				
JOIST TO SILL, TOP PLATE, OR GIRDER	4-8d BOX (2 <sup>1</sup> / <sub>2</sub> " x 0.113")	TOE NAIL			
RIM JOIST, BAND JOIST, OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d BOX (2 <sup>1</sup> / <sub>2</sub> " x 0.113")	4" O.C. TOE NAIL			
1" x 6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2 ½" x 0.113")	FACE NAIL			
2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3 ½" x 0.135")	BLIND AND FACE NAIL			
2" PLANKS (PLAN & BEAM - FLOOR AND ROOF)	3-16d BOX (3 ½" x 0.135")	AT EACH BEARING, FACE NAIL			
BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 ½" x 0.162")	END NAIL			
BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10d BOX (3" x 0.128")	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES			
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16d BOX (3 ½" x 0.135")	AT EACH JOIST OR RAFTER, FACE NAIL			
BRIDGING OR BLOCKING TO JOIST	2-10d BOX (3" x 0.128")	EACH END, TOENAIL			

ESCRIPTION OF BUILDING MATERIAL	FASTNER SCHEDULE FOR	R STRUCTURAL MEMBERS	INTERMEDIATE SUPPORTS (INCHES)
	IBFLOOR, ROOF AND INTERIOR WALL SHE		
3/8" - 1/2"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	12
<sup>19</sup> / <sub>32</sub> " -  1"	8d COMMON NAIL (2½" x 0.131")	6	12
11%" - 11⁄4"	10d COMMON (3" x 0.148") NAIL OR 8d (2½" x 0.131") DEFORMED NAIL	6	12
	OTHER WALL		
<sup>1</sup> / <sub>2</sub> " STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 $\frac{1}{2}$ " GALVANIZED ROOFING NAIL, $\frac{7}{16}$ " HEAD DIAMETER, OR 1 $\frac{1}{4}$ " LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6
25" STRUCTURAL CELLULOSIC 72 FIBERBOARD SHEATHING	1 $\frac{3}{4}$ " GALVANIZED ROOFING NAIL, $\frac{7}{16}$ " HEAD DIAMETER, OR 1 $\frac{1}{2}$ " LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6
½" GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1¼" SCREWS, TYPE W OR S	7	1 7
%" GYPSUM SHEATHING	1¾" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1½" SCREWS, TYPE W OR S	7	7
W	OOD STRUCTURAL PANELS, COMBINATIO	N SUBFLOOR UNDERLAYMENT TO FRAM	ING
⅔" AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2½" x 0.131") NAIL	6	12
7∕8" - 1"	8d COMMON (2½" x 0.131") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12
11⁄8" - 11⁄4"	10d COMMON (3" x 0.148") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12

1. IF INFORMATION LISTED ON PLAN SHEETS CONTRADICTS INFORMATION IN THIS TABLE, INFORMATION ON PLANS TAKES PRECEDENCE OVER INFORMATION LISTED IN THIS TABLE

#### FOUNDATION NOTES

- PSI FOR BASEMENT AND INTERIOR FLOOR SLABS-ON-GRADE, 3000 PSI FOR FOUNDATION WALLS, AND 3500 PSI FOR PORCHES AND GARAGE FLOOR SLABS
- STANDARDS PROVIDE A MINIMUM 4"-DIAMETER PERFORATED DRAIN PIPE ALONG PERIMETER OF USABLE SPACE AT FOOTING LEVEL OR OTHER EQUIVALENT MATERIALS PER IRC SECTION R405.1. THE PIPE SHALL BE COVERED WITH A MINIMUM
- MINIMUM 20 GALLON SUMP PIT FOUNDATION SHALL BE DESIGNED FOR A BEARING CAPACITY OF 1500 PSF AND FOUNDED ON COMPETENT ORIGINAL SOIL AS DETERMINED AND CONFIRMED BY A LICENSED GEOTECHNICAL ENGINEER OR ENGINEERING GEOLOGIST. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANY
- SOIL WITH THE AFOREMENTIONED MINIMUM PROPERTIES. 5. FOOTINGS SHALL BE A MINIMUM OF 16" WIDE x 8" DEEP AND SHALL HAVE A MINIMUM OF (2) CONTINUOUS GRADE 40 #4 BARS WITH 3" BOTTOM CLERANCE. BOTTOM OF FOOTING SHALL BE LOCATED A MINIMUM OF 3'-0" BELOW GRADE FOR FROST PROTECTION.
- CONCRETE PADS SUP0PORTING COLUMN LOADS SHALL BE NO SMALLER THAN 2'-0" x 2'-0" x 1'-0" DEEP WITH A MINIMUM OF (4) GRADE 40 #4 BARS EACH WAY WITH 3" BOTTOM CLEARANCE
- FOUNDATION WALLS SHALL BE A MINIMUM OF 8" NOMINAL WIDTH AND SHALL HAVE HOIZONTAL GRADE 40 #4 BARS AT 2'-0" O.C. MAX. WITH VERTICAL #4 BARS AS REQUIRED ON FOUNDATION CROSS SECTION ON SHEET S2.0 REINFORCEMENT SHALL LAP A MINIMUM OF 2'-0" (CLASS B SPLICE)
- INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB 10. BASEMENT FLOOR SLAB SHALL BE A MINIMUM OF 4" THICK ON A MINIMUM BASE COURSE OF 4" TO 6" OF SAND, GRAVEL OR CRUSHED ROCK. BETWEEN THE BASE COURSE AND FLOOR SLAB SHALL BE PLACED A 6-MIL POLY
- VAPOR RETARDER WITH MINIMUM OVERLAP OF 6" AT DISCONTINUITIES 11. IF A FLOOR IS TO BE SUPPORTED BY A MINIMUM OF 2'-0" OF GRANULAR FILL OR 8" OF EARTH, BASEMENT SLAB SHALL BE DESIGNED BY A LICENSED ENGINEER
- 12. 7" INTO CENTER OF WALL STEM AND SHALL BE INSTALLED AT A MAXIMUM OF 6'-0" O.C. (OR AS NOTED ON PLANS) AND SHALL BE INSTALLED WITHIN 6" TO 12" OF EACH END OF EACH SILL PLATE LENGTH, PER IRC SECTION R403.1.6
- 13. FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET S2 0 14. THE GARAGE FLOOR SHALL SLOPE TOWARD THE VEHICLE DOORS OR TO A TRENCH OR UNTRAPPED DRAIN THAT

DISCHARGES TO THE EXTERIOR, ABOVE GRADE

## FRAMING NOTES

- 15. ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS-FIR-LARCH GRADE #2, UNLESS NOTED OTHERWISE ON PLANS 16. ALL INTERIOR LOAD-BEARING AND EXTERIOR WALL HEADERS SHALL BE (2) #2 - 2x10's, UNLESS NOTED OTHERWISE ON PLANS
- BLOCK OVER BEAMS AND AT CANTILEVERS AND DOOR JAMBS 18. INTERIOR NON-BEARING WALLS RESTING ON BASEMENT SLAB SHALL BE ISOLATED FROM ABOVE FRAMING BY A
- MINIMUM OF 3/2 ALL HEADERS/BEAMS SHALL BEAR ON A MINIMUM OF (2) 2x4 POSTS (KING AND JACK STUDS), UNLESS NOTED 19. OTHERWISE
- 20. WHERE JOISTS SPAN PARALLEL TO FOUNDATION, BLOCKING SHALL BE PROVIDED IN THE TWO SPACES MOST ADJACENT TO THE FOUNDATION WALL AT 4'-0" O.C. FOR THE PURPOSE OF TRANSFERRING LATERAL FOUNDATION WALL LOAD TO THE FLOOR DIAPHRAGM. FASTEN JOISTS AND BLOCKING TO SILL PLATE WITH (4) 10d NAILS. IF MECHANICAL DUCTWORK IS INSTALLED IN ONE OF THESE FIRST TWO BAYS, FASTEN 2x4's FLAT AT 4'-0" O.C. BETWEEN JOIST(S) AND/OR SILL AND PROVIDE BLOCKING AS PRESCRIBED ABOVE IN THE NEXT TWO JOIST BAYS. SECURE 2x4's TO JOIST(S)/SILL PLATE WITH (4) 10d NAILS. 21. ALL WOOD MATERIAL SUPPORTED ON CONCRETE OR MASONRY SHALL BE TREATED OR OF DECAY-RESISTANT
- MATERIAI 22. JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD. JOISTS FRAMING INTO THE FACE OF A STEEL OR WOOD BEAM SHALL BE SUPPORTED WITH APPROPRIATE 23.
- COLD-FORMED STEEL JOIST HANGERS JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID 24. BLOCKING MIN 1%" IN THICKNESS OR BY FASTENING RIM TO JOISTS PER FASTENING TABLE TO LEFT
- ALL WALL COVERINGS SHALL COMPLY WITH IRC SECTION R702.3 25. 26. ALL RAFTERS AND COLLAR TIES SHALL COMPLY WITH IRC SECTION R802.3.
- 27. ALL RAFTERS SHALL HAVE 2x4 COLLAR TIES @ 4-0" O.C. IN UPPER ½ OF VERTICAL DISTANCE BETWEEN CEILING AND ROOF
- BLOCKING BETWEEN JOISTS UNDER A LOAD-BEARING WALL IS NOT REQUIRED 28. PER IRC SECTION 501.3, BOTTOM OF ALL FLOOR ASSEMBLIES ABOVE UNFINISHED AREAS SHALL BE PROVIDED WITH 29. A ½" GYPSUM BOARD MEMBRANE OR RESIDENTIAL FIRE SPRINKLER SYSTEM WHEN FLOOR SYSTEM IS CONSTRUCTED OF OTHER THAN DIMENSION LUMBER OR STRUCTURAL COMPOSITE LUMBER EQUAL TO OR GREATER THAN 2x10 NOMINAL DIMENSION(WHERE REQUIRED BY ENFORCING JURISDICTION)
- ENGINEERED LVL's SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E=1900 ksi, AND Fv=285 psi 30 ENGINEERED PARALLAMS SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E = 2000 ksi, AND Fv = 290 psi 31.
- 32. COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. ½" x 2" BOLTS SHALL THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTIFIED INSPECTOR.
- 33. WHEN MECHANICAL EQUIPMENT IS LOCATED IN AN ENCLOSED ROOM, THERE SHALL BE (2) 14"x12" VENTS LOCATED IN A WALL COMMON WITH ADDITIONAL LIVING AREA. ONE VENT SHALL BE LOCATED SUCH THAT THE BOTTOM OF THE VENT BEGINS 12" FROM THE FLOOR AND THE OTHER VENT SHALL BE LOCATED SUCH THAT THE TOP OF THE VENT BEGINS 12" FROM THE CEILING.
- 34. ALL ROOF SHEATHING SHALL BE Tr OSB WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD

#### GLAZING NOTES

- 35. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION 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 2'-0" ARC OF THE DOOR IN A CLOSED POSITION AND FOR WHICH THE BOTTOM EDGE IS WITHIN 5'-0" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 5'-0" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS, GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING NINE SQUARE FEET AND FOR WHICH THE BOTTOM EDGE IS LESS THAN 1'-6" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 3'-0"
- 36. ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC SECTION R612.2

#### ATTIC VENTILATION

37. ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH 1/4" TO 1/4" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN  $\lambda_{50}$  OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED - THE REQUIRED AREA MAY BE REDUCED TO 1/300.

#### **EMERGENCY EGRESS**

- 38. PROVIDE A MINIMUM OF ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPENABLE HEIGHT OF 2'-0" AND A MINIMUM WIDTH OF 1'-9". IN ADDITION, THE OPENABLE
- PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 3'-8" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP. 39. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR, INCLUDING BASEMENT (IF APPLICABLE). ALARMS SHALL BE HARDWIRED TOGETHER SO THAT THE ACTIVATION OF
- ONE SMOKE ALARM WILL ACTIVATE ALL SMOKE ALARMS IN THE DWELLING. PROVIDE CARBON MONOXIDE DETECTORS OUTSIDE EACH SLEEPING AREA.

#### MASONRY VENEER

- 40. MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-RESISTANT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1/2", WITH NOT LESS THAN 5/8" MORTAR OR GROUT COVER TO OUTSIDE FACE 41. VENEER TIES, IF STRAND WIRE, SHALL NOT BE LESS IN THICKNESS THAN NO. 9 U.S. GAGE WIRE AND SHALL HAVE A
- HOOK EMBEDDED IN THE MORTAR JOINT, OR IF SHEET METAL, SHALL BE NOT LESS THAN NO. 22 U.S. GAGE BY 7/4" CORRUGATED. 42. EACH TIE SHALL SUPPORT NOT MORE THAN 2.67 SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE
- THAN 32 INCHES ON CENTER HORIZONTALLY AND 24 INCHES ON CENTER VERTICALLY. VENEER TIES AROUND WALL OPENINGS: ADDITIONAL METAL TIES SHALL BE PROVIDED AROUND ALL WALL OPENINGS GREATER THAN 16 INCHES IN EITHER DIMENSION. METAL TIES AROUND THE PERIMETER OF OPENINGS

#### GARAGE NOTES

44. DOOR(S) BETWEEN THE GARAGE AND DWELLING SHALL BE MINIMUM 1%" SOLID CORE OR HONEY-COMBED STEEL DOOR WITH 20-MINUTE FIRE RATING EQUIPPED WITH A SELF-CLOSING DEVICE 45. VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST LOADING PER DASMA 108 AND ASTM E 330-96 PER IRC 2018

CONCRETE SHALL BE AIR-ENTRAINED BETWEEN 5%-7% WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500

THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION'S RESIDENTIAL FOUNDATION

OF 6" OF GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT BELOW FOOTING LEVEL OR TERMINATE IN A

SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH 1/2" Ø ANCHOR BOLTS EMBEDDED A MINIMUM OF

SHALL BE SPACED NOT MORE THAN 3 FEET ON CENTER AND PLACED WITHIN 12 INCHES OF THE WALL OPENING.

#### GARAGE NOTES (CONTINUED)

45.

- THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM %" GYP. BOARD APPLIED TO THE GARAGE SIDE OF FRAMING. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE, THE GARAGE CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM <sup>5</sup>/<sub>8</sub>" TYPE X GYP. BOARD. WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/" GYP. BOARD.
- GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING AND SHALL BE FASTENED WITH 2%"" x 0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 31/4" x 0.120" NAILS THROUGH THE JAMB INTO THE HEADER. MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

#### **DESIGN LOADING (PER TABLE R301.5)**

MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (PSF)				
USE	LIVE LOAD	DEAD LOAD		
UNINHABITABLE ATTICS WITHOUT STORAGE	10	10		
UNINHABITABLE ATTICS WITH LIMITED STORAGE	20	10		
HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS	30	10		
BALCONIES (EXTERIOR) AND DECKS	40	10 <sup>d</sup>		
FIRE ESCAPES	40	10		
GUARDRAILS AND HANDRAILS <sup>a</sup>	200 <sup>°</sup>	-		
GUARDRAIL IN-FILL COMPONENTS <sup>b</sup>	50 <sup>c</sup>	-		
PASSENGER VEHICLE GARAGES	50	DEPENDENT UPON SLAB CONSTRUCTION		
ROOMS OTHER THAN SLEEPING ROOM	40	10 <sup>d</sup>		
SLEEPING ROOM	30	10 <sup>d</sup>		
STAIRS	40	10 <sup>d</sup>		

a. A single concentrated load applied in any direction at any point along the top b. Guard in-fill components (all those except the handrail), ballusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to one square foot. This load

need not be assumed to act concurrently with any other live load requirement. c. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the infill components. These loads shall be determined independently of one another, and loads are assumed not to occur with any other live load.

d. An additional dead loading of 10 psf shall be applied where thinset tile floor is to be installed. An additional dead loading of 50 psf shall be applied where mudset tile floor is to be installed

#### INSULATION/EFFICIENCY

- 1 BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.1 OR THE 2012 IECC (SEE SHEET S3.1 FOR FRAMING DETAILS AND TABLES ON THIS SHEET FOR MORE INFORMATION)
- CATHEDRAL -VAULTED CEILING FRAMING SHALL BE FRAMED WITH A MINIMUM INSULATION VALUE OF R-38. IF VAULTED RAFTERS DO NOT PROVIDE REQUIRED DEPTH TO ACHIEVE R-38 INSULATION BUILDER SHALL FUR DOWN RAFTERS PER DETAILS PROVIDED ON SHEET S3.1.

INSULATION AND FENESTRATION REQUIRE	MENTS BY COMPONENT (TABLE N1102.1.1)
CLIMATE ZONE	4-A
FENESTRATION U-FACTOR	0.35
SKYLIGHT U-FACTOR	0.55
GLAZED FENSTRATION SHGC	0.40
CEILING R-VALUE	49
WOOD FRAME WALL R-VALUE	15
MASS WALL R-VALUE	8 / 13
FLOOR R-VALUE	19
BASEMENT WALL R-VALUE	10-CONTINUOUS OR 13-CAVITY
SLAB R-VALUE AND DEPTH	10 AT 2'-0"
CRAWL SPACE WALL R-VALUE	10-CONTINUOUS OR 13-CAVITY
DUCTWORK EXPOSED TO OUTSIDE AIR R-VALUE	8
DUCTWORK NOT EXPOSED TO OUTSIDE AIR R-VALUE	6
CATHEDRAL VAULTED CEILING R-VALUE	38

#### DUCT SEALING

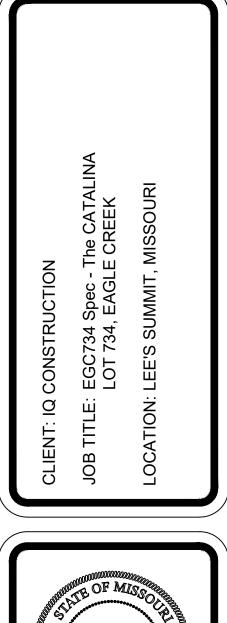
N1103 2 2 (R403 2 2) SEALING (MANDATORY) DUCTS AIR HANDLERS AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1 OF 2018 IRC EXCEPTIONS:

- AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS.
- WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE, THREE 2. SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT.
- CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN 3. DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES OF WATER COLUMN PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.
- DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING: POST-CONSTRUCTION TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM 1. PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.
- 2. ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE
- TIME OF THE TEST, TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA EXCEPTION: THE TOTAL LEAKAGE TEST IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

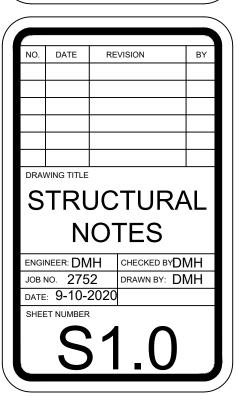
ME	ECHANICAL VENTILATIO	N SYSTEM FAN EFFICA	CY
FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
RANGE HOODS	ANY	28	ANY

FAN LOCATION	MINIMUM (CFM)	(CFM/WATT)	MAXIMUM (CFM)	
RANGE HOODS ANY		2.8	ANY	
IN-LINE FAN	ANY	2.8	ANY	
BATHROOM, UTILITY ROOM 10		1.4	90	
BATHROOM, UTILITY ROOM	90	2.8	ANY	









**RELEASE FOR** CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/14/2020

ERMINE WEIGHT	T OF HOUSE						INPUT CALCULATED VALUE	
ATION				:	DEAD LOAD (psf)	AREA (ft <sup>2</sup> )	WEIGHT (lbs.)	
)F		*			10	2635	26350	
ING					10	2635	26350	
T FLOOR		1			10	2635	26350	
				WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)	
T FLOOR EXT. V	WALL DL			214	10	10	21400	
					DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)	
T FLOOR INT. P	ARTITION WALL DL				6	2635	15810	
								_
		,	ESIGN PER 115 MPH 3	3-SECOND GUST, EXPOSU	RE C AND MEAN ROOF HEIGHT <=	/		
		T-TO-BACK			SIDE-TO-		·	
LOPED ROOF	AREA	LOAD		SLOPED ROOF	AREA	LOAD 4245	4	
VERT. ROOF	248 174	2110 2163	CUMULATIVE	VERT. ROOF	<u> </u>	4245	CUMULATIVE	_
1ST	581.13	7225	11570	1ST	595.87	7391	11708	
BSMT <sup>a</sup>	0	0	0	BSMT <sup>a</sup>	124	1756	7610	
DOINT	0	0	-	) - PER ASCE CH. 6	124	1756	7010	_
	SLOPED ROOF	ZONE B		9.7	ZONE C	11.3	2a (FIG. 28.6-1, ASCE7)	
	WALL/VERT. ROOF			14.2	ZONE D	7.7	10.566	
	MEAN ROOF HT., h		22	1 1.6	ZONE D	1.1	10.000	
FLOOR TRIBUTA			izio_A3D 1210 (3)		analysis under ASCE7-10 and IRC/IBC	,	63400 63400	
ITE GROUND M	OTION - %g - FROM AS	SCE7 SEISMIC MAP)					12.0%	
om ASCE7 Table	ə 11.4-1)						1.6	
(= 2/3 * S <sub>S</sub> * F <sub>a</sub> )							0.128	
ATION FLOOR	12.2-1)			<u>SEISMIC :</u>		rom ASCE7 (Eq. 12.8-1):	6.5 V (= 1.2 * S <sub>DS</sub> * ) 1498	
ATION FLOOR EMENT		Min Oberthia			F		6.5 V (= 1.2 * S <sub>DS</sub> * 1498 1498	
OM ASCE7 Table ATION FLOOR EMENT Sheathir	ng Location	Min. Sheathing		Fas	F itening Schedule	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 ble Shear (#/LF)	Code Reference
OM ASCE7 Table ATION FLOOR EMENT Sheathir		Min. Sheathin 7/18° APA Rated		Fas 1-1/2" 16ga, Staples w/ 1" For 24" stud spacing,	tening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Field For 16" stud spacing	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1498 1498	Code Reference per IBC, Table 2305.3(1)
ATION FLOOR EMENT Sheathir Exterior (	ng Location		Plywood/OSB	Fas 1-1/2" 16ga, Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga, Staples w/ 1" For 24" stud spacing,	tening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Field For 16" stud specing penetration@ 4" OC Edges, 6" OC Fle 12" OC Field For 16" stud specing	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 ble Shear (#/LF)	Code Reference per IBC, Table 2305.3(1) per IBC, Table 2305.3(1)
om ASCE7 Table ATION FLOOR EMENT Sheathir Exterior (	ng Location	7/18" APA Rated	Plywood/OSB Plywood/OSB	Fas 1-1/2" 16ga, Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga, Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga, Staples w/ 1"	tening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Field For 16" stud spacing penetration@ 4" OC Edges, 6" OC Fie	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 ble Shear (#/LF) 155	Code Reference per IBC, Table 2305.3(1) per IBC, Table 2305.3(1)
ATION FLOOR EMENT Exterior <u>(</u> Exterior <u>(</u> Exterior <u>(</u>	ng Location (Option #1) (Option #2)	7/18" APA Rated	Plywood/CSB Plywood/CSB Plywood/CSB d/OSB or shiplap panel p panel sheathing with	Fas 1-1/2" 15ga. Steples w/ 1" For 24" stud spacing, 1-1/2" 15ga. Steples w/ 1" For 24" stud spacing, 1-1/2" 15ga. Steples w/ 1" For 24" stud spacing, 8d Common Nails w/ 1-3/8 Field for 7/16" APA-rated	tening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Field For 16" stud spacing penetration@ 4" OC Edges, 6" OC Fle 12" OC Field For 16" stud spacing penetration@ 3" OC Edges, 6" OC Fle	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 ble Shear (#/LF) 155 230	Code Referen per IBC, Table 2305.3(1) per IBC, Table 2306.3(1) per IBC, Table 2305.3(1)
ATION FLOOR EMENT Exterior ( Exterior ( Exterior (	ng Location (Oxtion #1) (Oxtion #2) (Oxtion #3)	7/15" APA Rated 7/18" APA Rated 7/18" APA Rated 7/16" APA Rated Plywood sheathing, or 3/8" shipla	Plywood/CSB Plywood/CSB Plywood/CSB d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with	Fas 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 8d Common Nails w/ 1-3/8 Field for 7/16" APA-rated OR @ 4" O.C. Edges, 12" C 8d Common Nails w/ 1-3/8 Field for 7/16" APA-rated	F stening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud apacing penetration@ 4" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud spacing penetration@ 3" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud spacing " penetration @ 6" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing	Allowat	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 1498 1498 1498 210 310	Code Reference per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) AF&PA SDPW Table 4.3A
ATION FLOOR EMENT Exterior ( Exterior ( Exterior ( Exterior (	Ing Location (Oastion #1) (Oastion #2) (Option #3)	7/15" APA Rated 7/18" APA Rated 7/18" APA Rated 7/16" APA Rated Plywood sheathing, or 3/8" shiplaj tighter nail 7/16" APA Rated Plywood sheathing, or 3/8" shiplaj	Plywood/CSB Plywood/CSB Plywood/CSB d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with uble studs at each panel	Fas 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 8d Common Nails w/ 1-3/8 Field for 7/16" APA-rated   OR @ 4" O.C. Edges, 12" ( 8d Common Nails w/ 1-3/8 Field for 7/16" APA-rated   OR @ 3" O.C. Edges, 12" ( 8d Common Nails w/ 1-3/8	F stening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud apacing penetration@ 4" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud spacing penetration@ 3" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud spacing " penetration @ 6" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing " penetration @ 4" O.C. Edges, 12" O.	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 1498 1498 1498 210 220	Code Reference per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) AF&PA SDPW Table 4.3A
ATION FLOOR EMENT Sheathir Exterior ( Exterior ( Exterior ( Exterior (	ng Location (Ostion #1) (Ostion #2) (Option #3) (Option #4)	7/18" APA Rated 7/18" APA Rated 7/18" APA Rated 7/16" APA Rated Plywood sheathing, or 3/8" shiplay tighter nail 7/16" APA Rated Plywood sheathing, or 3/8" shiplay tighter nail	Plywood/CSB Plywood/CSB Plywood/CSB d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with uble studs at each panel e	Fas 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 1-1/2" 16ga. Staples w/ 1" For 24" stud spacing, 8d Common Nails w/ 1-3/8 Field for 7/16" APA-rated OR @ 4" O.C. Edges, 12" C 8d Common Nails w/ 1-3/8 Field for 7/16" APA-rated OR @ 3" O.C. Edges, 12" C 8d Common Nails w/ 1-3/8	rtening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Field For 16" stud specing penetration@ 4" OC Edges, 6" OC Fle 12" OC Field For 16" stud specing penetration@ 3" OC Edges, 6" OC Fle 12" OC Field For 16" stud specing " penetration@ 3" OC. Edges, 12" O. olywood/OSB or shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathin	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 1498 1498 1498 2498 230 310 220 320	Code Reference per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) AF&PA SDPW Table 4.3A AF&PA SDPW Table 4.3A
ATION FLOOR EMENT Sheathir Exterior ( Exterior ( Exterior ( Exterior ( Exterior ( Exterior ( Exterior ( Interior (	Ing Location (Option #1) (Option #1) (Option #5) (Option #6)	7/15" APA Rated 7/18" APA Rated 7/18" APA Rated 7/16" APA Rated Plywood sheathing, or 3/8" shiplaj tighter nail 7/16" APA Rated Plywood sheathing, or 3/8" shiplaj tighter nail 7/16" APA Rated Plywood sheathing, or 3/8" shiplaj tighter nail spacing and do edge	Plywood/CSB Plywood/CSB Plywood/CSB d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with uble studs at each panel e m Board e WB Steel X-Brace (or	Fas           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 4" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Si           No. 6- 1 <sup>1</sup> /4" Type W or S S           (3) 16d @ end studs & (1) 8	tening Schedule penetration@ 6" OC Edges, 6" OC Field 12" OC Field For 16" atud epacing penetration@ 4" OC Edges, 6" OC Field 12" OC Field For 16" atud epacing penetration@ 3" OC Edges, 6" OC Field 12" OC Field For 16" atud epacing " penetration @ 6" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathin C. Field for 3/8" shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathin C. Field for 3/8" shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathin D.C. Field for 3/8" shiplap panel sheathin C. Field for 3/8" shiplap panel sheathin C. Field for 3/8" shiplap panel sheathin " penetration @ 3" O.C. Edges, 12" O. Field	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 1498 ble Shear (#/LF) 155 230 310 220 320 410	Code Reference per IBC, Table 2305.3(1) per IBC, Table 2305.3(1) per IBC, Table 2305.3(1) AF&PA SDPW Table 4.3A AF&PA SDPW Table 4.3A AF&PA SDPW Table 4.3A
ATION FLOOR EMENT Sheathir Exterior ( Exterior ( Exterior ( Exterior ( Exterior ( Int	Image: Contract of the second secon	7/18" APA Rated         7/18" APA Rated         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail spacing and do         edge         1/2" Gypsur         16 Ga. Simpson/USP Type         equal	Plywood/CSB Plywood/CSB Plywood/CSB d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with uble studs at each panel e m Board e WB Steel X-Brace (or	Fas           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 4" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Si           No. 6- 1 <sup>1</sup> /4" Type W or S S           (3) 16d @ end studs & (1) 8	F tening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud specing penetration@ 4" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud specing penetration@ 3" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud specing " penetration@ 6" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing D.C. Field for 3/8" shiplap panel sheathing T.C. Field for 3/8" shiplap panel sheathing D.C. Field for 3/8" sh	Allowal	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 1498 ble Shear (#/LF) 155 230 310 220 320 410 60	Code Referen per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) AF&PA SDPV Table 4.3A AF&PA SDPV Table 4.3A AF&PA SDPV Table 4.3A
om ASCE7 Table ATION FLOOR EMENT Sheathir Exterior ( Exterior ( Exterior ( Exterior ( Interior ( In	Ing Location (Option #1) (Option #2) (Option #4) (Option #5) (Option #6) (terior	7/15" APA Rated         7/15" APA Rated         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail         7/16" APA Rated Plywood         sheathing, or 3/8" shiplay         tighter nail spacing and do         edge         1/2" Gypsur         16 Ga. Simpson/USP Type         T FLOOR	Plywood/CSB Plywood/CSB Plywood/CSB d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with spacing d/OSB or shiplap panel p panel sheathing with uble studs at each panel e m Board e WB Steel X-Brace (or	Fas           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           1-1/2" 16ga, Staples w/ 1" For 24" stud specing,           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 4" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Field for 7/16" APA-rated             OR @ 3" O.C. Edges, 12" C           8d Common Nails w/ 1-3/8           Si           No. 6- 1 <sup>1</sup> /4" Type W or S S           (3) 16d @ end studs & (1) 8	F tening Schedule penetration@ 6" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud specing penetration@ 4" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud specing penetration@ 3" OC Edges, 6" OC Fle 12" OC Fleid For 16" stud specing " penetration@ 6" O.C. Edges, 12" O. plywood/OSB or shiplap panel sheathing D.C. Field for 3/8" shiplap panel sheathing T.C. Field for 3/8" shiplap panel sheathing D.C. Field for 3/8" sh	Allowat Allowat	6.5 V (= 1.2 * S <sub>DS</sub> * 1 1498 1498 1498 ble Shear (#/LF) 155 230 310 220 320 410 60	Code Referen per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) per IBC, Table 2308.3(1) AF&PA SDPV Table 4.3A AF&PA SDPV Table 4.3A AF&PA SDPV Table 4.3A per IBC, Table 2306.4.4

WIDTH OF 1ST STORY (FT.)	52.83	WIDTH OF 2ND S
DEPTH OF 1ST STORY (FT.)	54.17	DEPTH OF 2ND S
BACK WALL OF GARAGE (FT.)	0	
GAR. WALL: 1=F-B, 2=S-S	2	

DEPTH OF 2ND STORY (FT.)	1

-								
			EXTER	IOR STRUCTURAL WALL I	ENGTHS (ft.) & RESISTANCES		ł	
		SE	ISMIC			WIND		
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)
1ST FLOOR	77	21560	36	10080	77	30184	36	14112
BASEMENT	0	0	25	7000	0	0	25	9800
u								
		ADDITIONAL RESIS	TANCE REQUIRED		Anchor Bolt Spacing (in.)		16d Nail Spacing req'd at bottom plate (in.)	
		SEISMIC	WIND		diameter (in.)	0.5	1st Floor F-B	25
1ST FLOOR FRONT-T	O-BACK	0	0		Shear value (per NDS)	944	1st Floor S-S	24
1ST FLOOR SIDE-TO-SIDE		0	0		Spacing F-B (inches)	169.7		
BASEMENT FRONT-T	O-BACK	0	0		spacing S-S (inches)	163.6		
BASEMENT SIDE-TO-	SIDE	0	0					

RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS**								
	ADDITIONAL RESISTANCE REQUIRED (POUNDS)	PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE	INTERIOR X-BRACES (325#/BRACE)	INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?	
1ST FLOOR FRONT-TO-BACK	0			<u>[</u> ]		0	YES	
1ST FLOOR SIDE-TO-SIDE	0					0	YES	
BASEMENT FRONT-TO-BACK	0					0	YES	
BASEMENT SIDE-TO-SIDE	0					0	YES	

\*\*NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE),

2) SEE SHEET S1 FOR INTERIOR STEEL X-BRACE INSTALLATION, 3) INTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SAME STAPLE/NAILING PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE TABLE ABOVE) AND ARE ONLY APPLICABLE FOR FULL-HEIGHT SECTIONS OF 2'-8" OR LONGER

4

ALL LATERAL BRACING ACHIEVED AT EXTERIOR WALLS AND WALLS DIRECTLY ON FOUNDATIONS; THEREFORE, NO INTERIOR BRACING PER 2012 IRC SECTION R502.2.1 IS REQUIRED

	WIND UPLIFT ANALYSIS							
	X/12	DEGREES						
ROOF PITCH (MAX)	8	33.7	PITCH OF 6 OR LESS: I	EOH -13.3, E -7.2, G -5.2				
ASCE 7								
	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)				
OVERHANG	1	-1.08	216	-1.08				
	TOTAL AREA (FT <sup>2</sup> )	ZONE E AREA (FT <sup>2</sup> )	ZONE G AREA (FT <sup>2</sup> )	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @ PERIMETER (LBS)	
MAIN ROOF**	2861.8011	-404.297424	3266.098524	-1.08	-0.36	-739	-3.5	
*ALONG PERIMETER	*ALONG PERIMETER TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)			-4.5	UPLIFT OK			
**INSIDE EXTERIOR WALLS RESISTANCE DUE TO DEAD WEIGHT & (3) 10d TOENAILS					251.6			

#### NOTE FOR CONSTRUCTION:

EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS

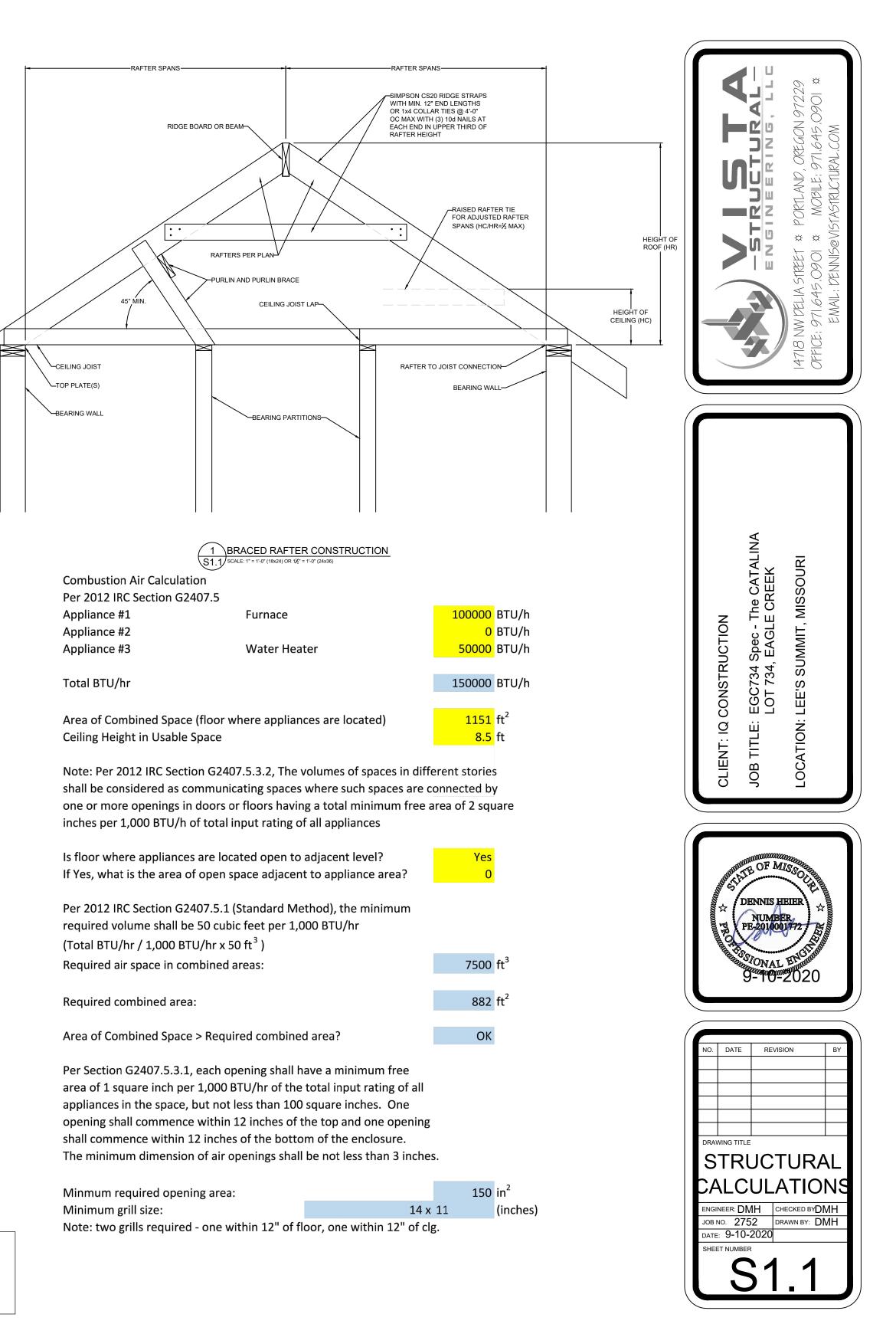
THE CONTINUOUS STRUCTURAL PANEL SHEATHING BRACING METHOD REQUIRES USE OF THE ABOVE TABLE FOR SHEATHING OF THE ENTIRE STRUCTURE. IN ADDITION, FRAMING MEMBERS SHALL BE @ 16" O.C. MAX., UNBLOCKED, AND W/ SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS

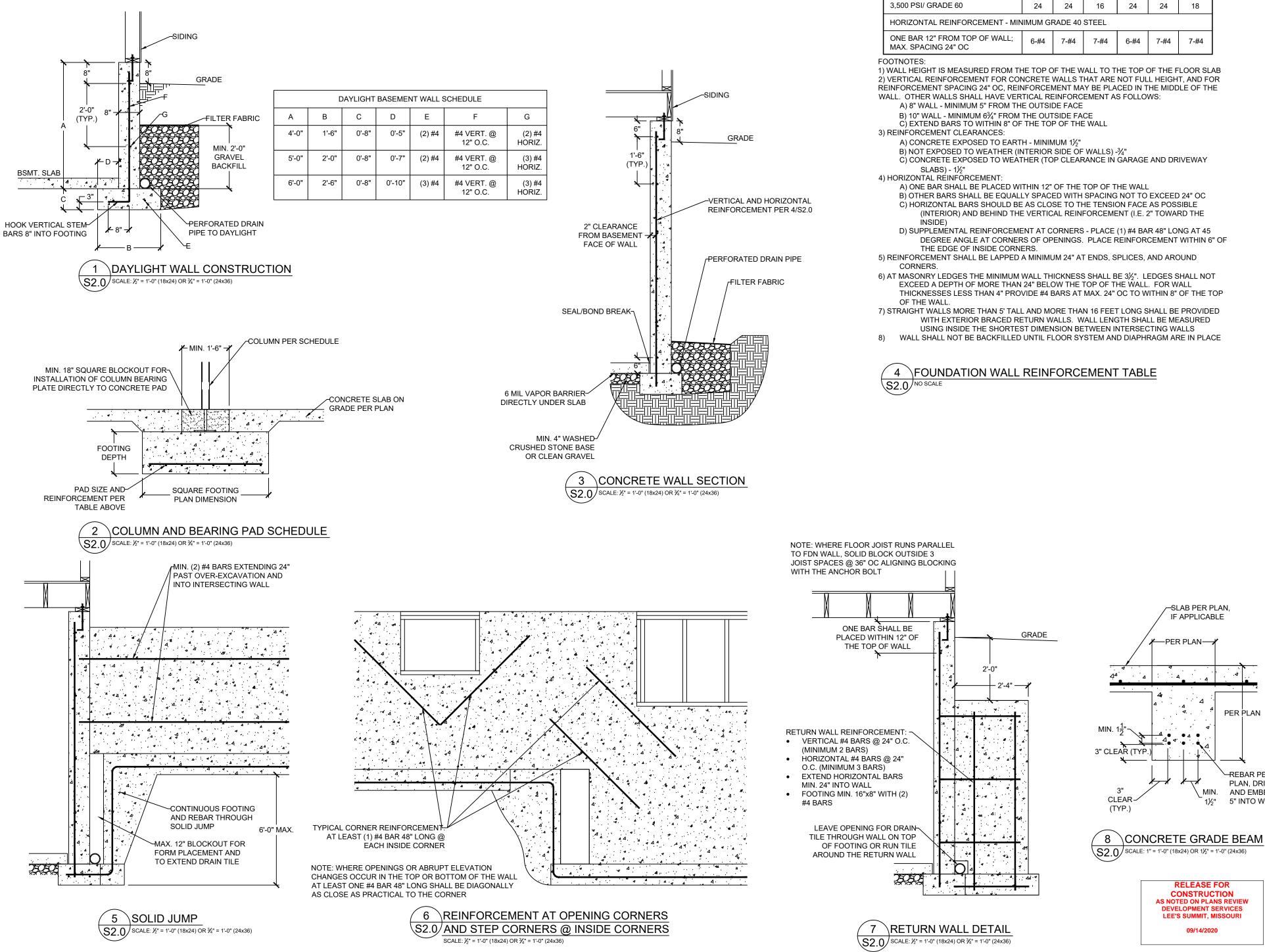
#### NOTE FOR DESIGN

ALL WALLS USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNINTERRUPTED HEIGHT OF 8'-0' AND LENGTH OF 2'-8". ALLOWABLE RESISTANCES HAVE BEEN #/FT AND INCREASED BY 40% FOR WIND LOADS, PER VALUES IN 2012 IBC SECTION 2306 AND AF&PA SDPWS TABLE 4.3A. FOR EXAMPLE, 7/16" APA-RATED SHEATHING WITH 8d @ 6" & 12" HAS A SEISMIC SHEAR VALUE OF 240 A WIND SHEAR VALUE OF 335#/FT - 40% GREATER THAN THAT OF SEISMIC)

## NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING

WITH CONSTRUCTION





CONCRETE STRENGTH/GRADE	8"	THICK W	/ALL	10"	THICK W	/ALL
REINFORCEMENT (#4 BARS)	8'	9'	10'	8'	9'	10'
3,000 PSI/ GRADE 40	24	24	16	24	24	18
3,500 PSI/ GRADE 40	24	24	16	24	24	18
3,000 PSI/ GRADE 60	24	24	16	24	24	18
3,500 PSI/ GRADE 60	24	24	16	24	24	18
HORIZONTAL REINFORCEMENT - MIN	NIMUM G	RADE 40	STEEL			
ONE BAR 12" FROM TOP OF WALL; MAX. SPACING 24" OC	6-#4	7-#4	7-#4	6-#4	7-#4	7-#4
) VERTICAL REINFORCEMENT FOR COL EINFORCEMENT SPACING 24" OC, REIL VALL. OTHER WALLS SHALL HAVE VER A) 8" WALL - MINIMUM 5" FROM TH B) 10" WALL - MINIMUM 6¾" FROM C) EXTEND BARS TO WITHIN 8" OF ) REINFORCEMENT CLEARANCES: A) CONCRETE EXPOSED TO EART B) NOT EXPOSED TO WEATHER (II C) CONCRETE EXPOSED TO WEAT SLABS) - 1½" ) HORIZONTAL REINFORCEMENT: A) ONE BAR SHALL BE PLACED WI B) OTHER BARS SHALL BE EQUAL C) HORIZONTAL BARS SHOULD BE (INTERIOR) AND BEHIND TH	NFORCE TICAL RI E OUTSI THE OU THE TO THE TO THE TO THER (TO ITHIN 12" LY SPAC E AS CLO	MENT MA EINFORC DE FACE TSIDE FA P OF THE SIDE OF OP CLEAF OF THE ED WITH OSE TO TH	Y BE PLA EMENT A CE WALLS) WALLS) RANCE IN TOP OF T SPACING	CED IN T S FOLLO -3/4" GARAGE HE WALL S NOT TO	HE MIDD WS: AND DR EXCEED	IVEWAY

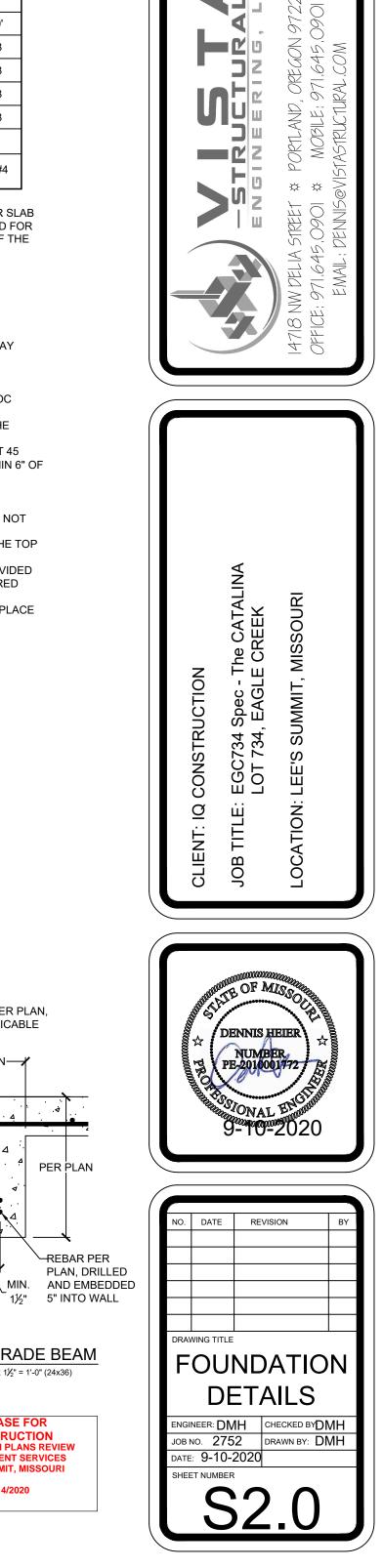
D) SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE (1) #4 BAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF

5) REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND

6) AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE  $3\frac{1}{2}$ ". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL. FOR WALL THICKNESSES LESS THAN 4" PROVIDE #4 BARS AT MAX. 24" OC TO WITHIN 8" OF THE TOP

- WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS
- 8) WALL SHALL NOT BE BACKFILLED UNTIL FLOOR SYSTEM AND DIAPHRAGM ARE IN PLACE

4 \FOUNDATION WALL REINFORCEMENT TABLE



-SLAB PER PLAN, IF APPLICABLE

4

11/2"

**RELEASE FOR** 

**CONSTRUCTION** 

AS NOTED ON PLANS REVIEW

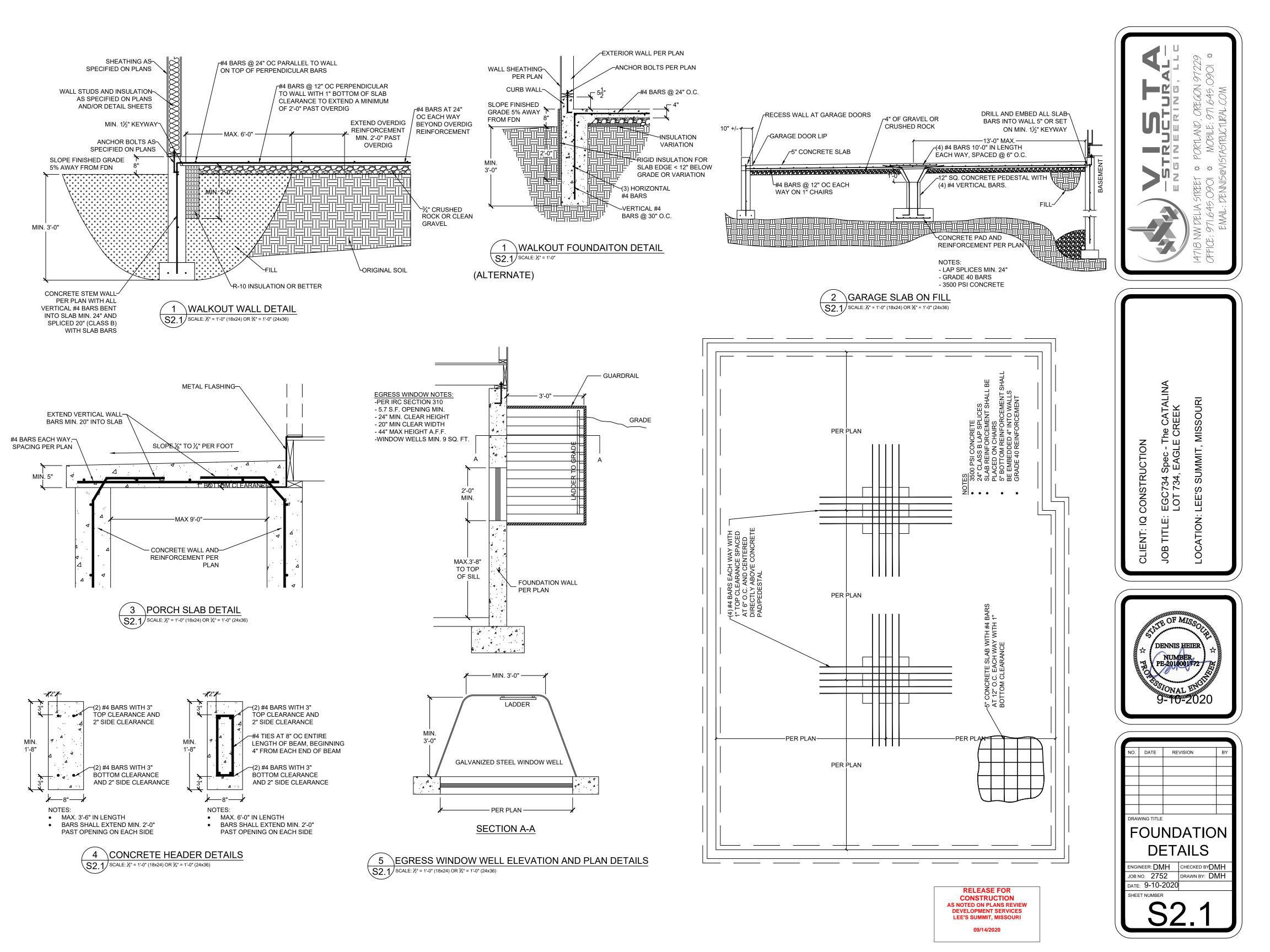
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

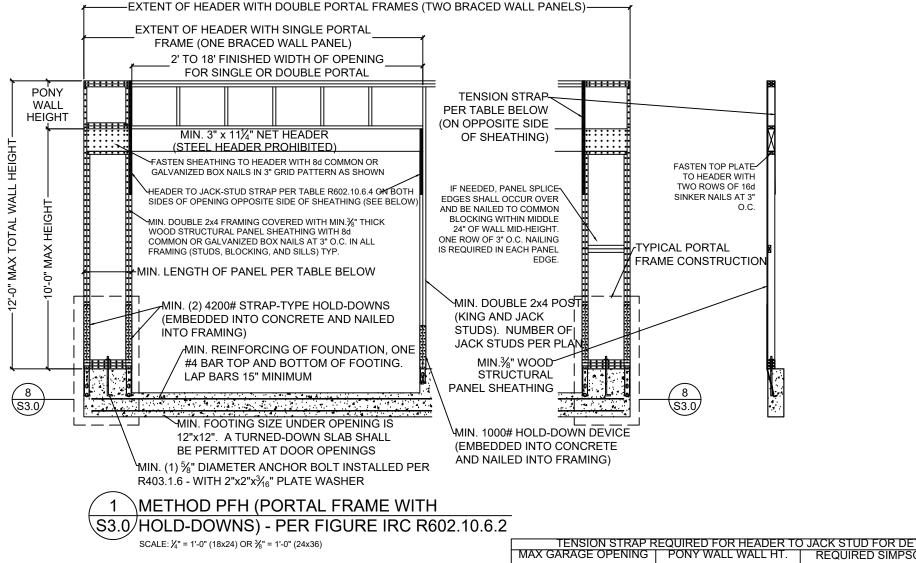
09/14/2020

PER PLAN

PER PLAN

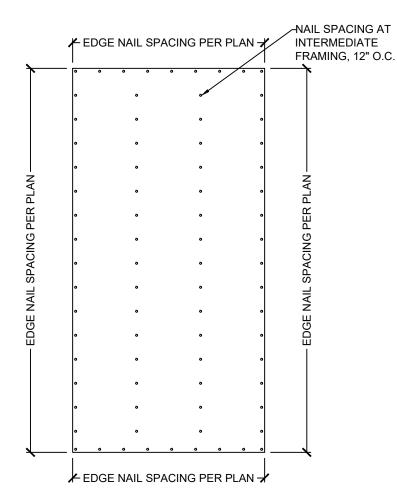
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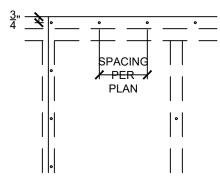


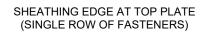
	MINIMUM PANEL LENGTH FOR DETAIL 1/S3.0 (INCHES)					
	8 FEET	9 FEET	ALL HEIGI 10 FEET	11 FEET	12 FEET	
SUPPORTING ROOF ONLY	16	16	16	18	20	
SUPPORTING ONE STORY AND ROOF	24	24	24	27	29	

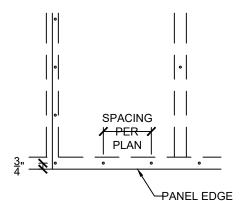
TENSION STRAP REQUIRED FOR HEADER TO JACK STUD FOR DETAILS 1/S3.0 AN							
MAX GARAGE OPENING	PONY WALL WALL HT.	REQUIRED SIMPSON	MIN. STR				
(FT.)	(FT.)	STRAP					
18'-0"	0'-0"	CS20					
9'-0"	1'-0"	CS20					
18'-0"	1'-0"	CS14					
9'-0"	2'-0"	CS18					
18'-0"	2'-0"	CMSTC16					
9'-0"	4'-0"	CMSTC16					
16'-0"	4'-0"	CMST14					





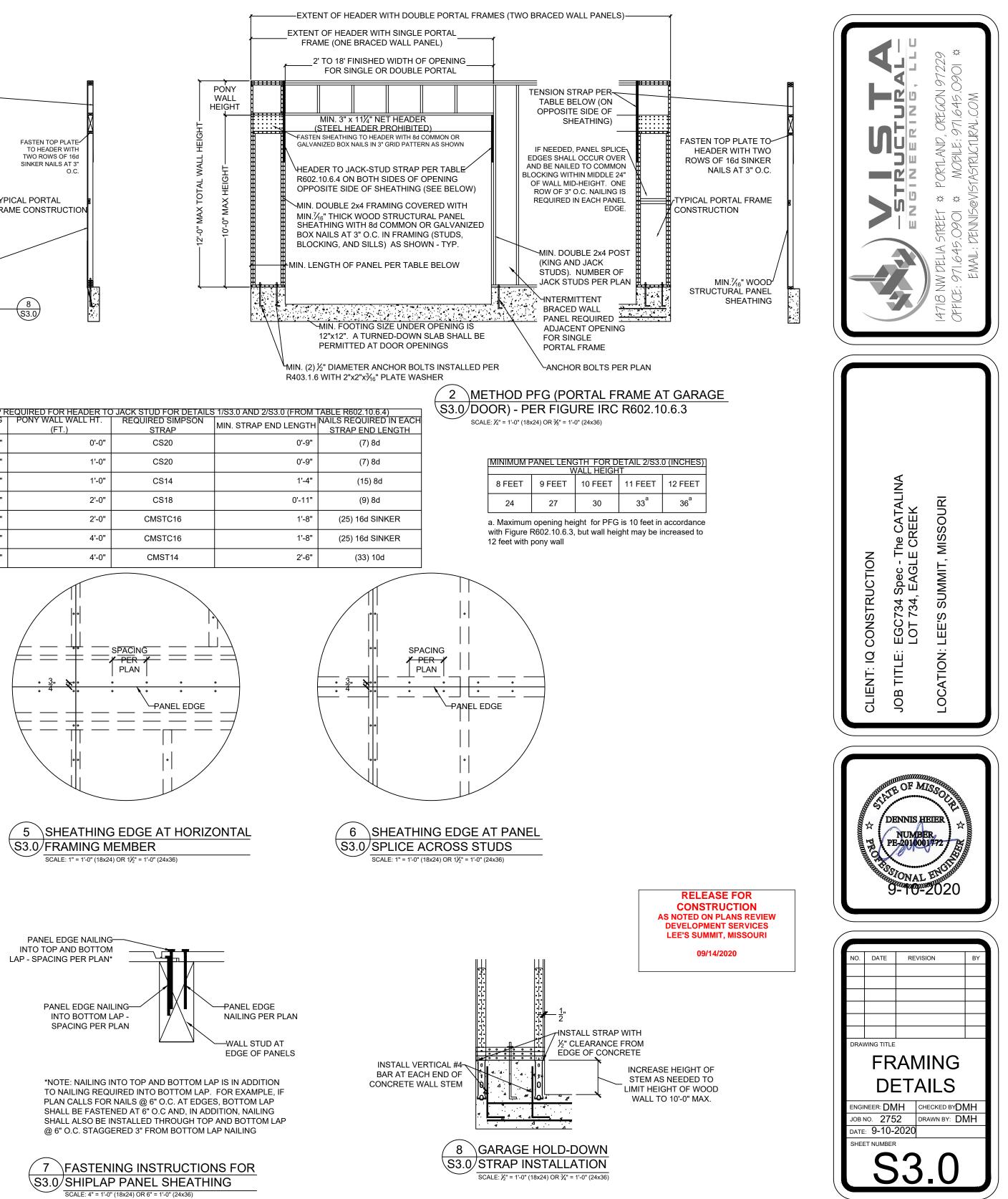


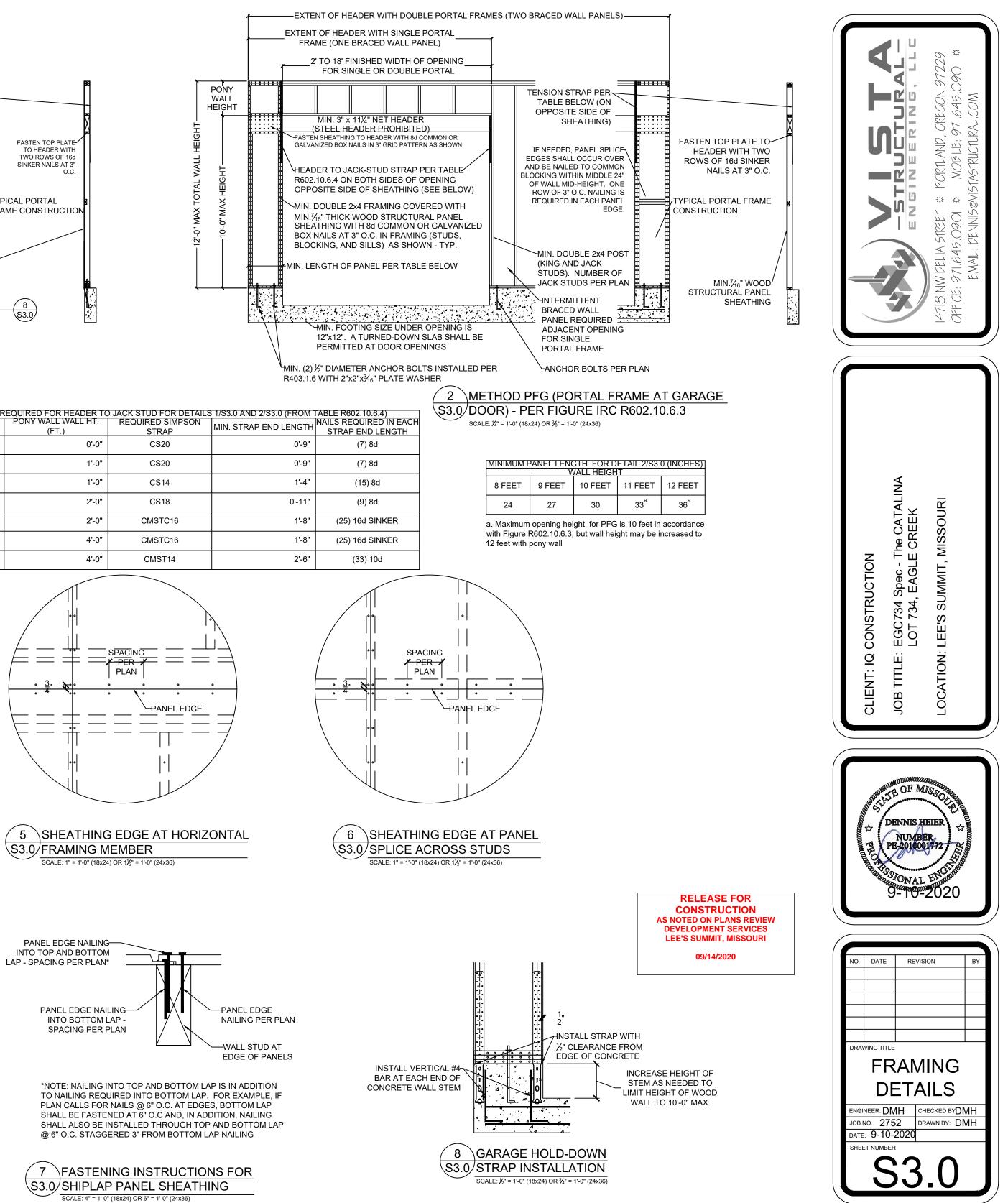


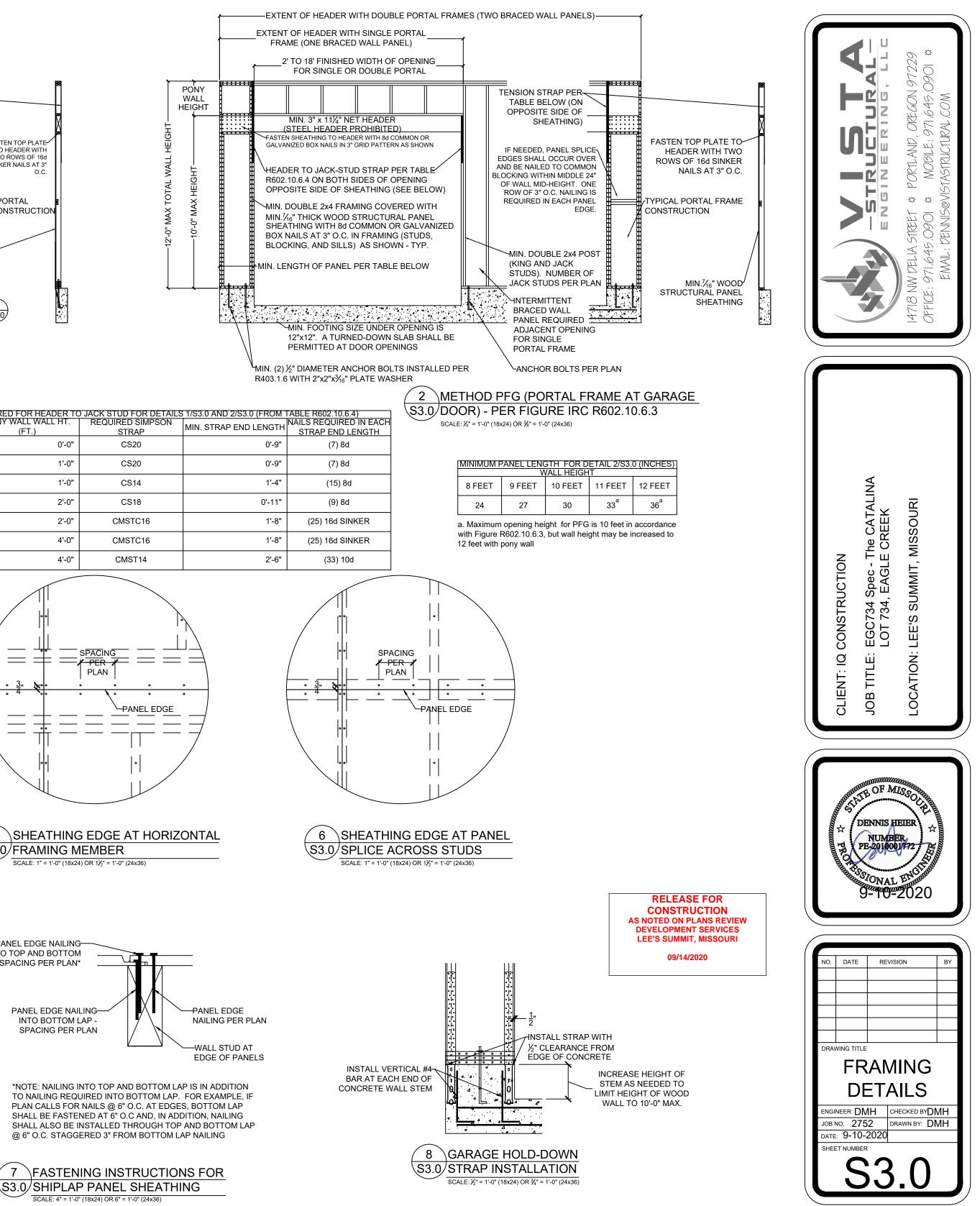


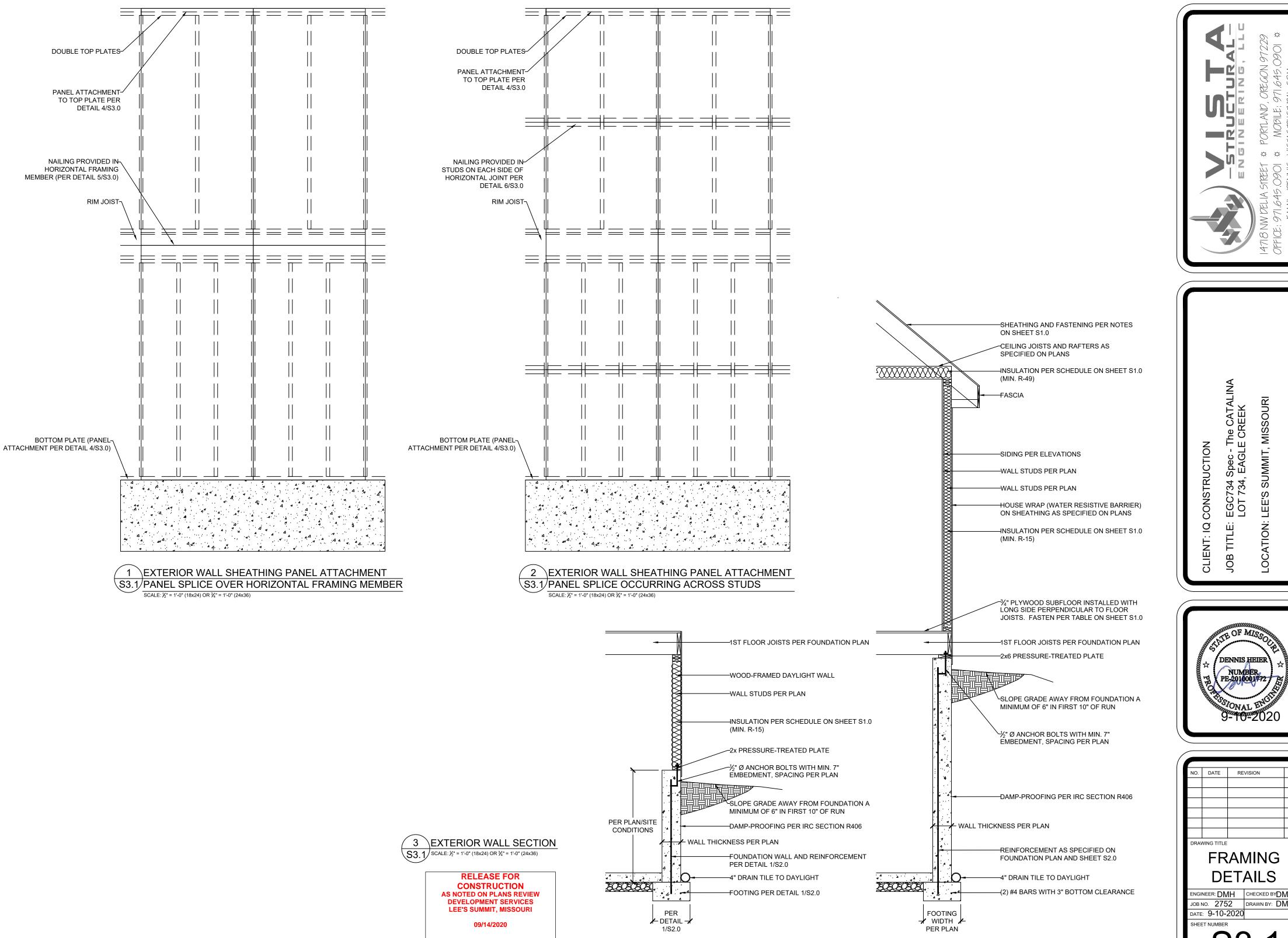
SHEATHING EDGE AT BOTTOM PLATE (SINGLE ROW OF FASTENERS)

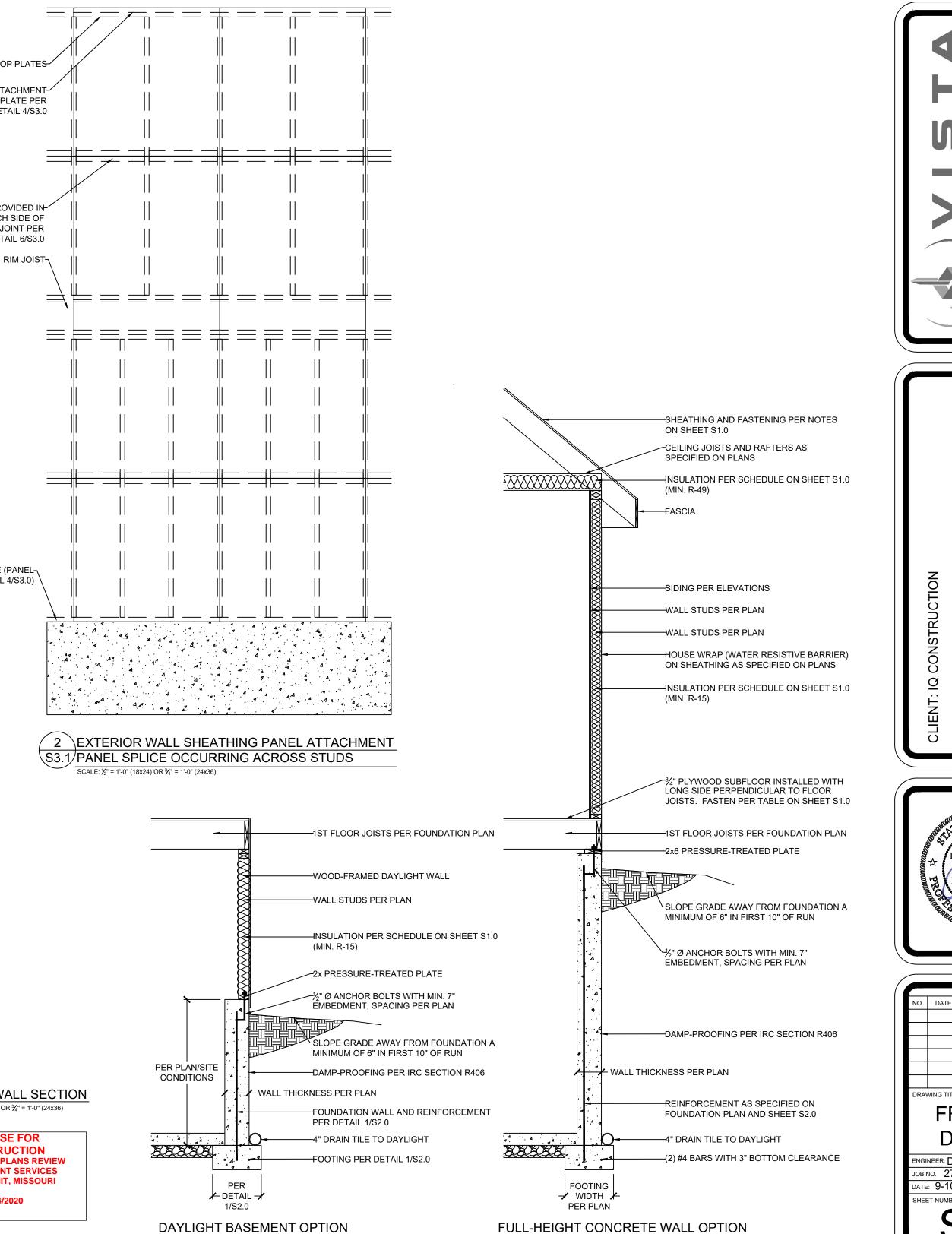
SHEATHING EDGE AT TOP 4 S3.0/AND BOTTOM PLATES SCALE: 1" = 1'-0" (18x24) OR 1<sup>1</sup>/<sub>2</sub>" = 1'-0" (24x36)











FULL-HEIGHT CONCRETE WALL OPTION

FRAMING DETAILS ENGINEER: DMH CHECKED BYDMH JOB NO. 2752 DRAWN BY: DMH DATE: 9-10-2020 SHEET NUMBER S3.

Spec - The CATALINA , EAGLE CREEK

EGC734 ( LOT 734,

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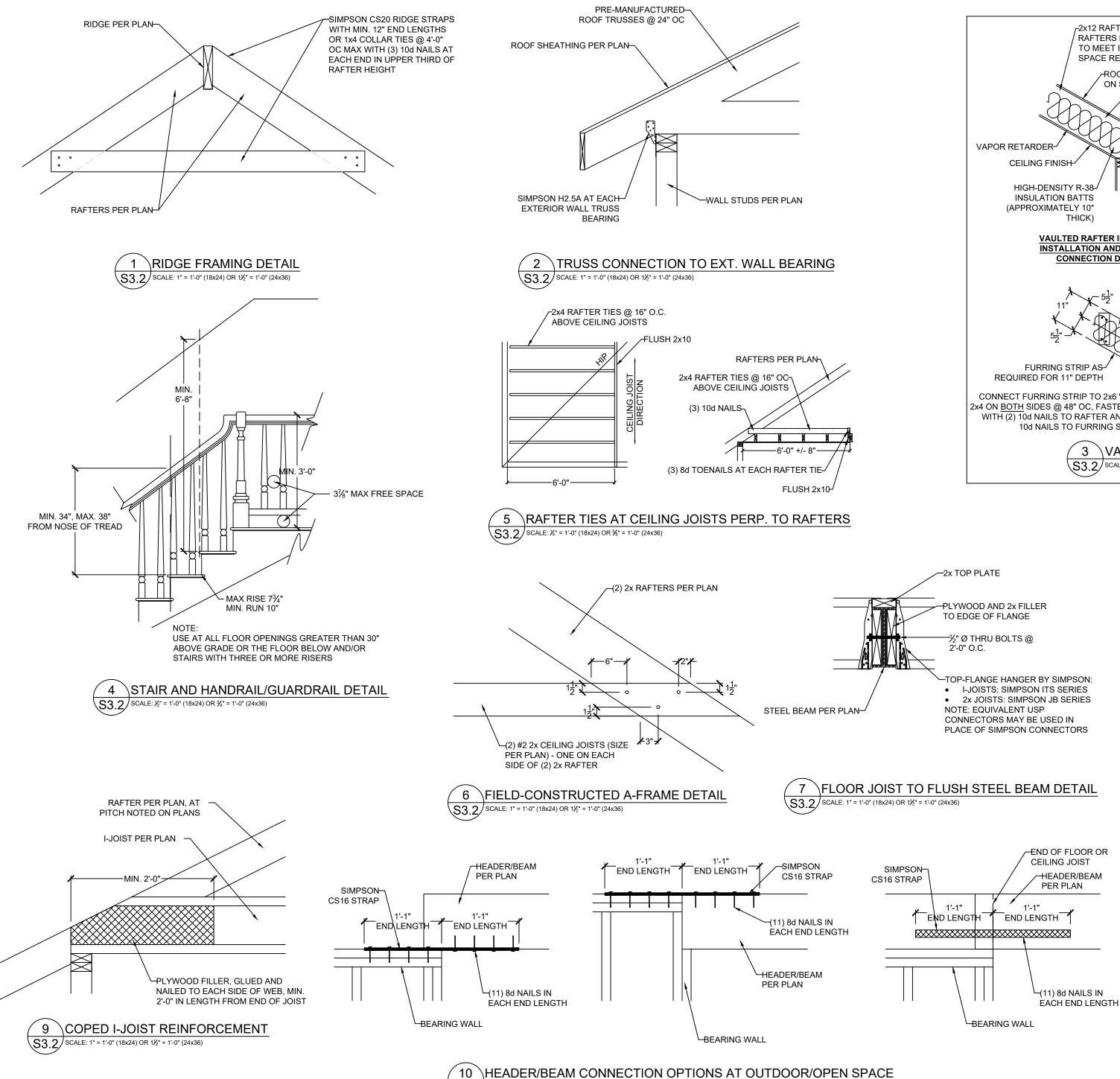
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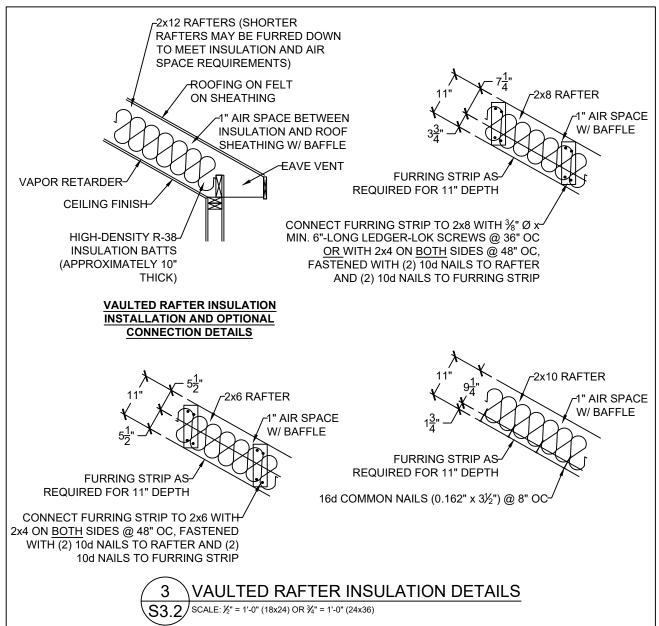
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SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



	SPACING (INCHES O.C.)							
HEIGHT (FT.)	24	16	12	8				
SUPPORTING A ROOF ONLY								
10 OR LESS	2x4	2x4	2x4	2x4				
12	2x6	2x4	2x4	2x4				
14	2x6	2x6	2x6	2x4				
16	2x6	2x6	2x6	2x4				
18	DR	2x6	2x6	2x6				
20	DR	DR	2x6	2x6				
SUPI	PORTING O	NE FLOOR /	AND A ROO	F				
10 OR LESS	2x6	2x4	2x4	2x4				
12	2x6	2x6	2x6	2x4				
14	2x6	2x6	2x6	2x6				
16	DR	2x6	2x6	2x6				
18	DR	2x6	2x6	2x6				
20	DR	DR	2x6	2x6				
SUPP	ORTING TV	VO FLOORS	AND A ROC	DF				
10 OR LESS	2x6	2x6	2x4	2x4				
12	2x6	2x6	2x6	2x6				
14	2x6	2x6	2x6	2x6				
16	DR	2x6	2x6	2x6				
18	DR	DR	2x6	2x6				
20	DR	DR	DR	2x6				
NOTES:								

NOTES:

1) DR = DESIGN REQUIRED 2) UTILITY, STANDARD, STUD AND #3 GRADE LUMBER OF ANY SPECIES ARE NOT PERMITTED 3) THIS TABLE DOES NOT APPLY FOR STUDS

SUPPORTING MEMBERS WITH A TRIB. LENGTH GREATER THAN 6'-0"

8 \MAXIMUM ALLOWABLE LENGTH OF S3.2/WOOD WALL STUDS (IRC TABLE 602.3.1)

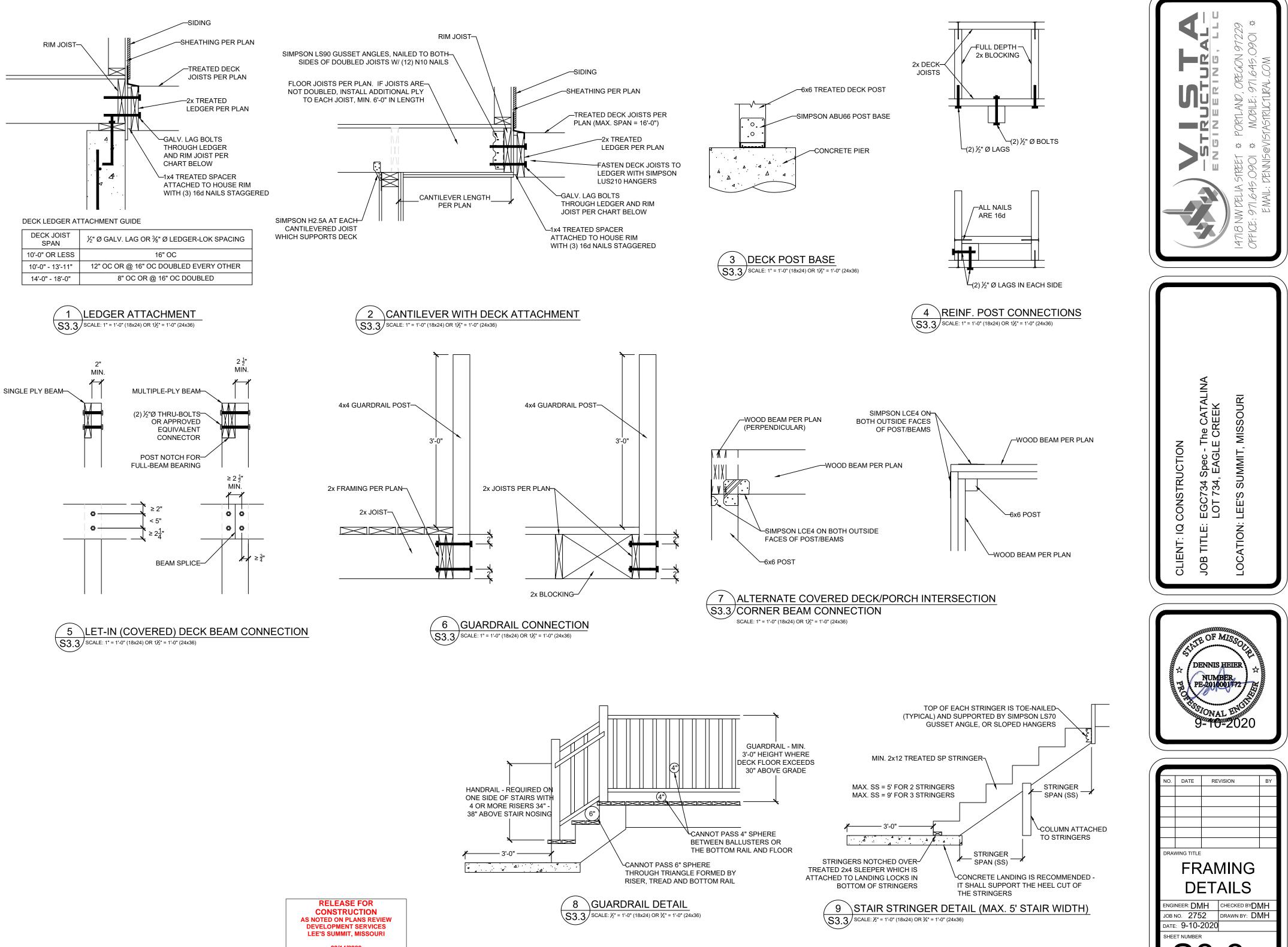
**RELEASE FOR** CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

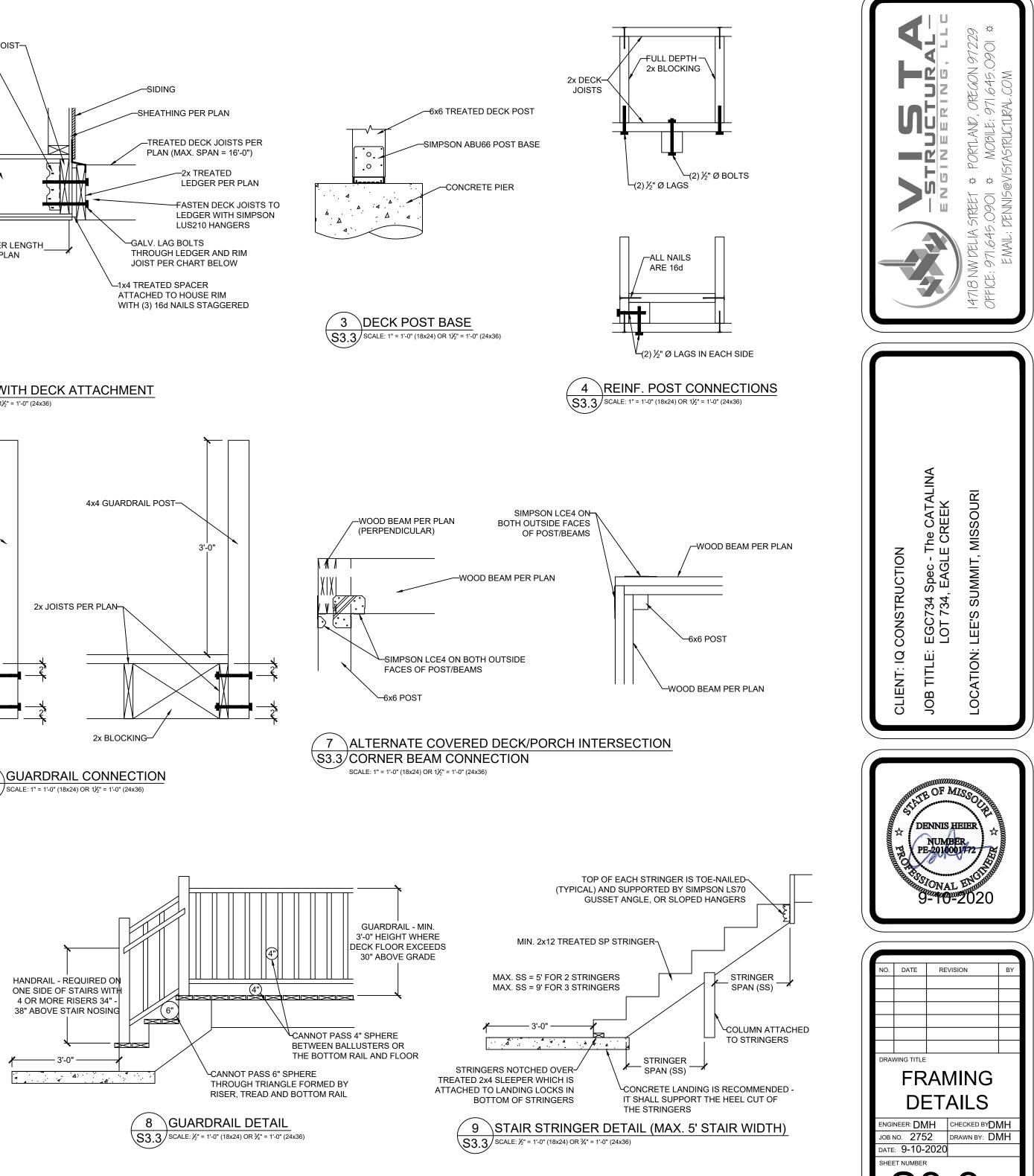
09/14/2020

Å JZ ÷Ċ-Spec - The CATALINA , EAGLE CREEK SUMMIT, MISSOURI CONSTRUCTION EGC734 { LOT 734, S ы Ш П Q ш ION: CLIENT: OCATI JOB Ľ TE OF MISE DENNIS HEIER NUMBER PE-2010001772 9-10-2020 REVISION DATE DRAWING TITLE FRAMING DETAILS ENGINEER: DMH CHECKED BYDMH JOB NO. 2752 DRAWN BY: DMH

DATE: 9-10-2020

SHEET NUMBER





09/14/2020

#### DROPPED BEAM

