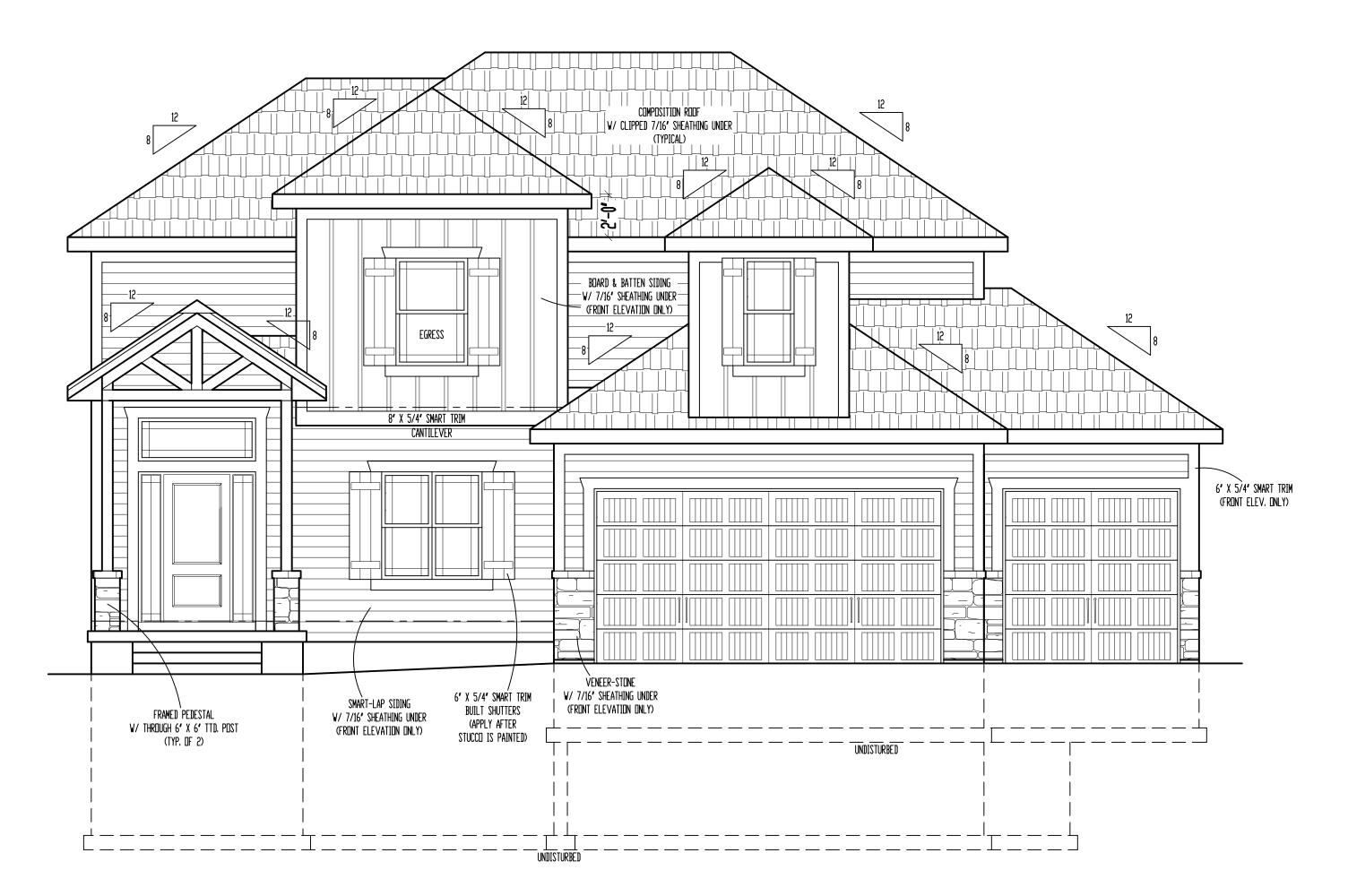
SOILS REPORT NEEDED AT TIME OF FOOTING INSPECTION

ONE-TIME-BUILD LICENSE AGREEMENT

NOTE: GOVERNING CODES & GENERAL CONTRACTOR'S WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER THESE PLANS.



FRONT ELEVATION SCALE: 1/4'' = 1'-0''

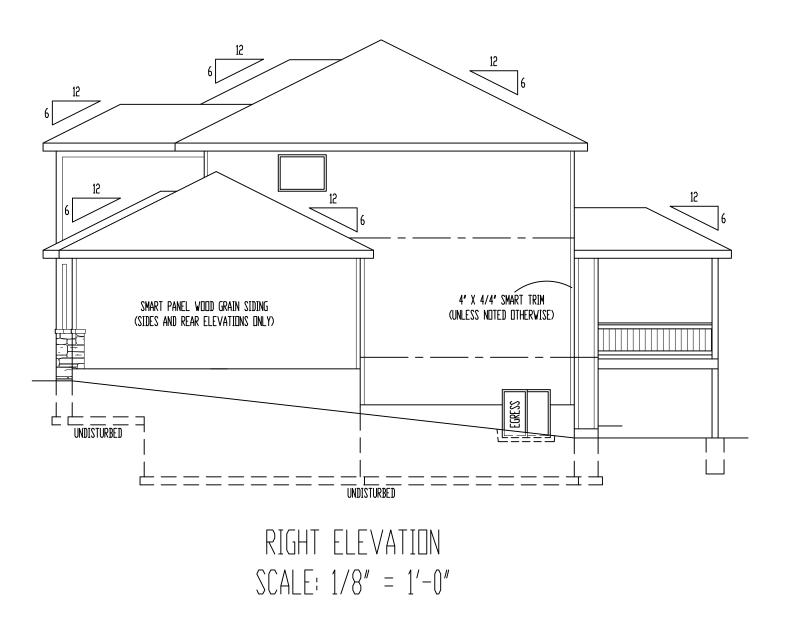


RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/01/2022

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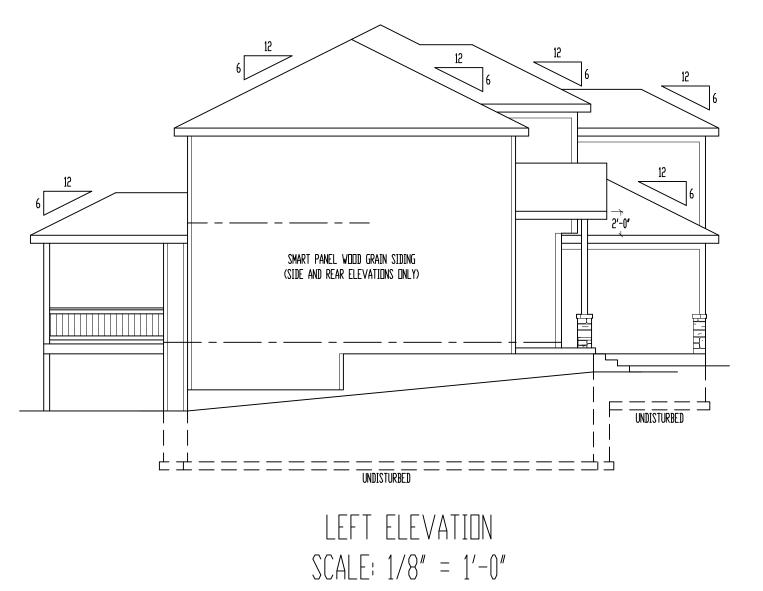
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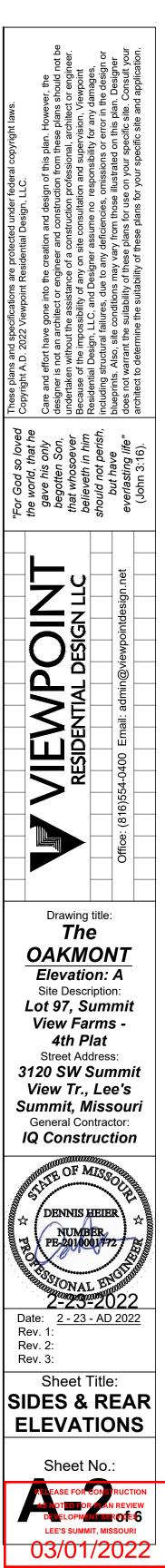
REAR ELEVATION SCALE: 1/8'' = 1'-0''

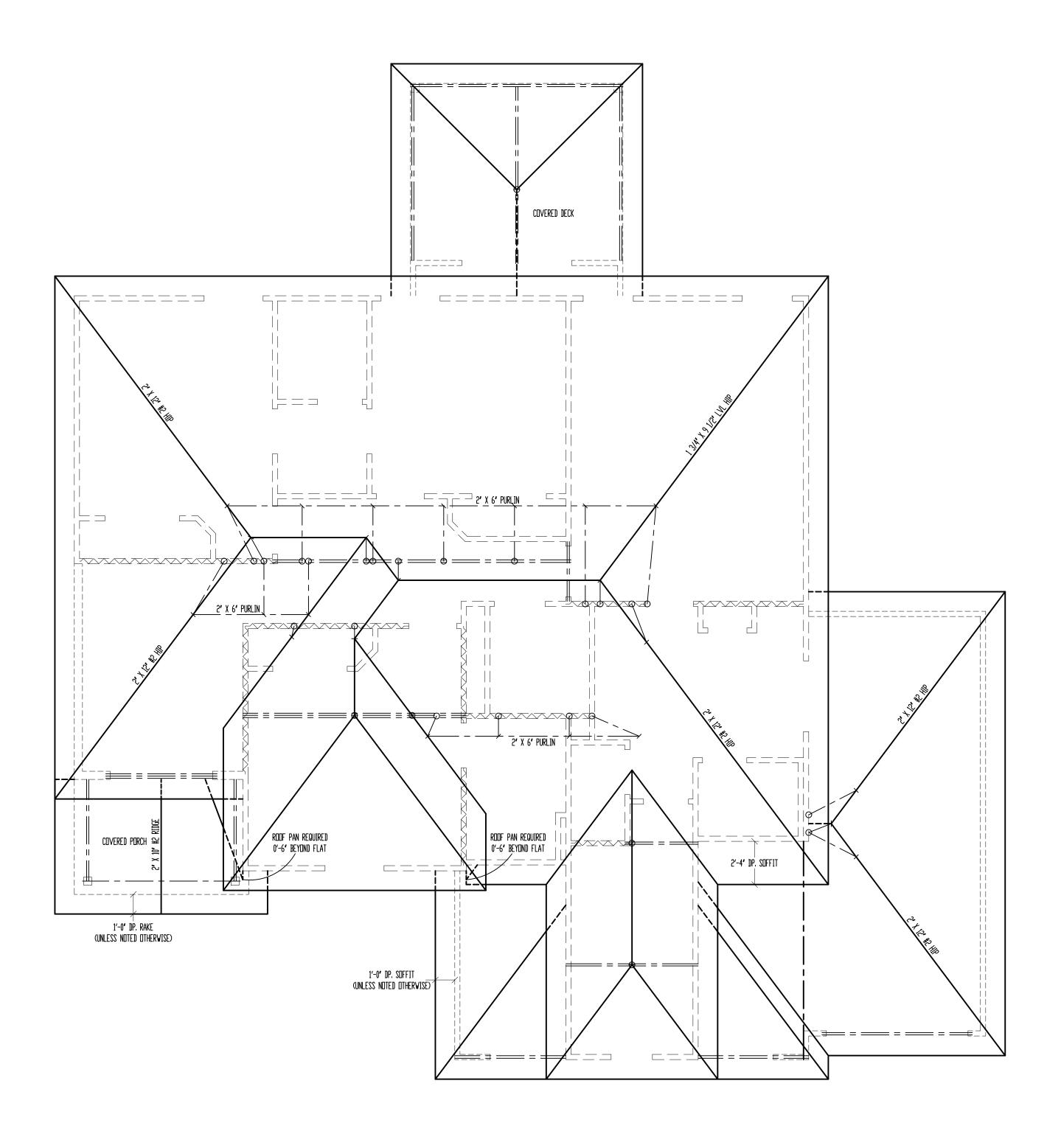


elevations: Smart panel vood grain siding on side and rear elevations composition roof shingles locate roof and soffit vents per code adjust foundation to grade

optional deck:

- DECK CONSTRUCTION TO COMPLY WITH MUNICIPALITY'S RESIDENTIAL DECK STANDARDS 2" X 10" #2 TTD. @ 16" D.C. FLOOR JOISTS (MAX. SPAN: 14'-0") 2' X 6' TTD. DECKING 6' X 6' TTD. PDSTS 2' X 2' TTD. SPINDLES
- 2" X 6" TTD. TOP RAIL
- Determine optional stairs on site





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

*ALL RAFTERS SHALL BE 2" X 6" #2 @ 16" D.C., UNLESS NOTED OTHERWISE.

SEE DETAIL 7/S3.2 FOR ALTERNATE RAFTER BEARING DETAIL WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE WALL DOUBLE TOP PLATE.

Flashing Note: DRIP EDGE, VALLEYS AND FLASHINGS TO BE METAL CLAD.

RODF NOTES:

RODF DESIGNED FOR LIGHT RODF COVERING 30psf TDTAL LDAD [10psf DL, 20psf LL (SL)]

* RAFTERS (HEM-FIR, DDUG-FIR, DR EQUAL): SEE SPAN CHARTS BELOW

CODE MINIMUM

	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN	
	#2-2x6	@24″ D.C.	11′-7 ′	
$\rangle\rangle\rangle$	#2-2x6	@16″ D.C.	14′-2 ′	<<<
	#2-2x8	@24″ D.C.	14′-8 ′	
	#2-2x8	@16″ D.C.	17'-11 '	
	#2-2x10	@24″ D.C.	17′-10 ′	
	#2-2x10	@16″ D.C.	21′-11 ″	
	NOTE: CODE	e minimum all	dws for a rafter deflection	_ DF L/180 TOTAL LOAD

HIGHER PERETRMANCE (RECOMMENDED)

DIUDER FE	KFUKMANUL (KI	
RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24″ D.C.	8′-6 ′
#2-2x6	@16″ D.C.	9′-9 ′
#2-2x8	@24″ D.C.	11'-3 '
#2-2x8	@16″ D.C.	12′-9 ′
#2-2x10	@24″ D.C.	14′-3 ′
#2-2x10	0 16″ D.C.	16'-3 '

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

- * VAULTS TO BE 2x10 DEPTH
- * RIDGE BOARDS ARE: (UNLESS OTHERWISE NOTED)
- #2- 2X8 UP TO 10/12 PITCH #2- 2X10 OVER 10/12 PITCH
- * ALL HIPS & VALLEYS ARE: (UNLESS DTHERWISE NOTED)
- #2- 2X8 UP TO 10/12 PITCH
- #2- 2X10 DVER 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 '
(1) 2x6 & (1) 2x8	20'-0 '
(2) 2x6 & (1) 2x8	30'-0 '
CONSULT ARCH./ENGR. >	30'-0 '

* 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 (/),

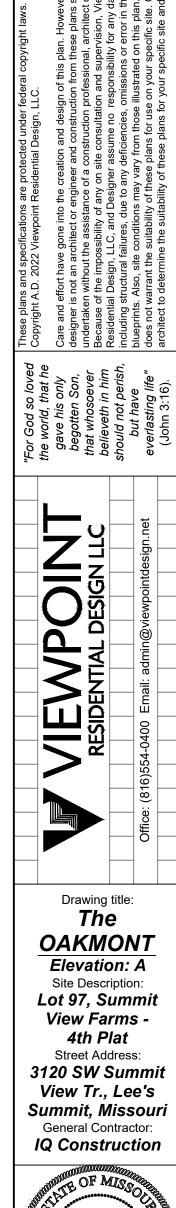
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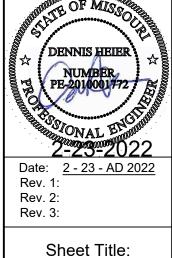
- * ~~~~ DENDITES BEARING WALL
- *
 DENDIES RODF BRACE

 *
 DENDIES PURLIN

 *
 DENDIES PURLIN

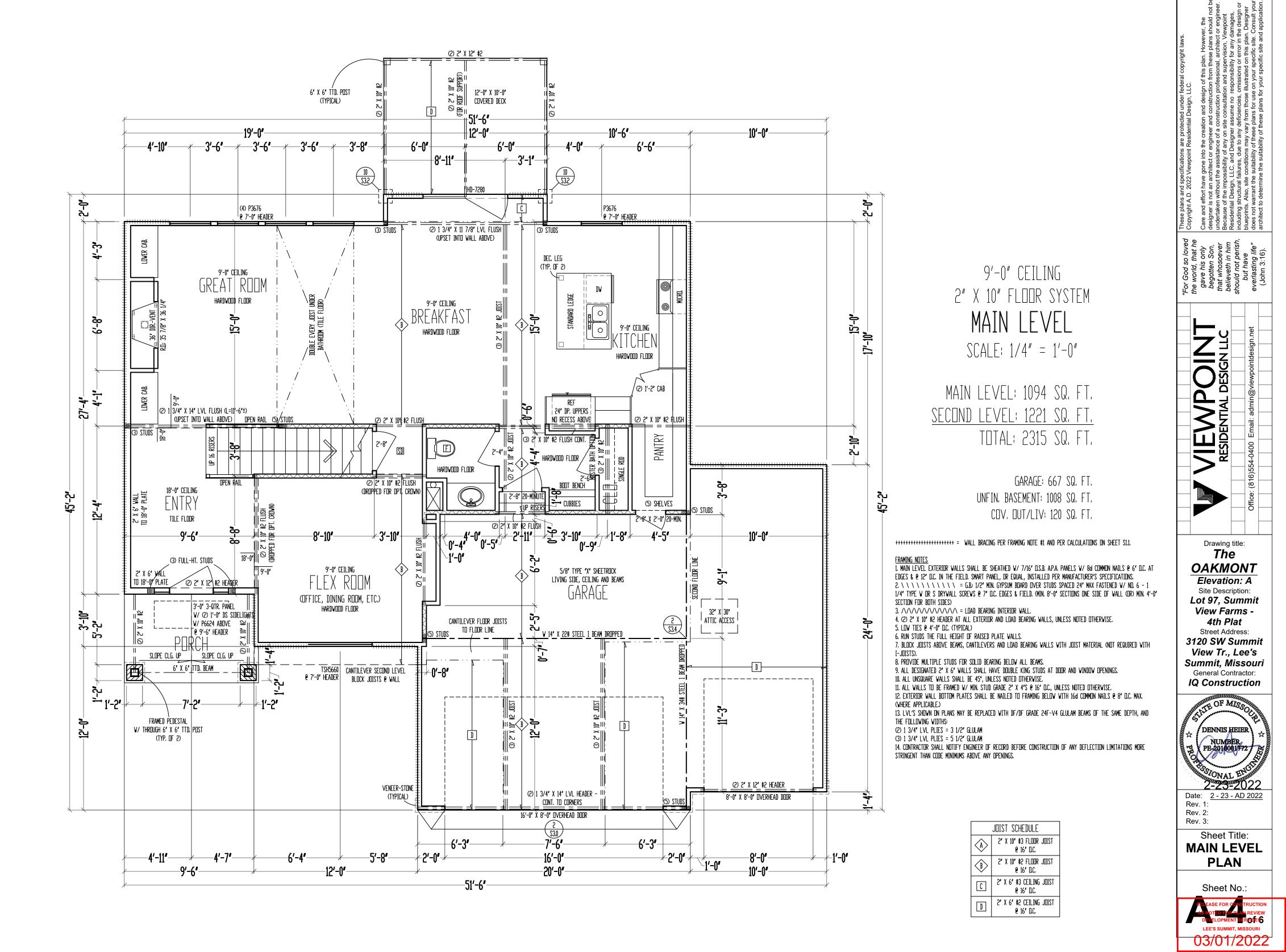
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 DENDIES BEARING STRUCTURE

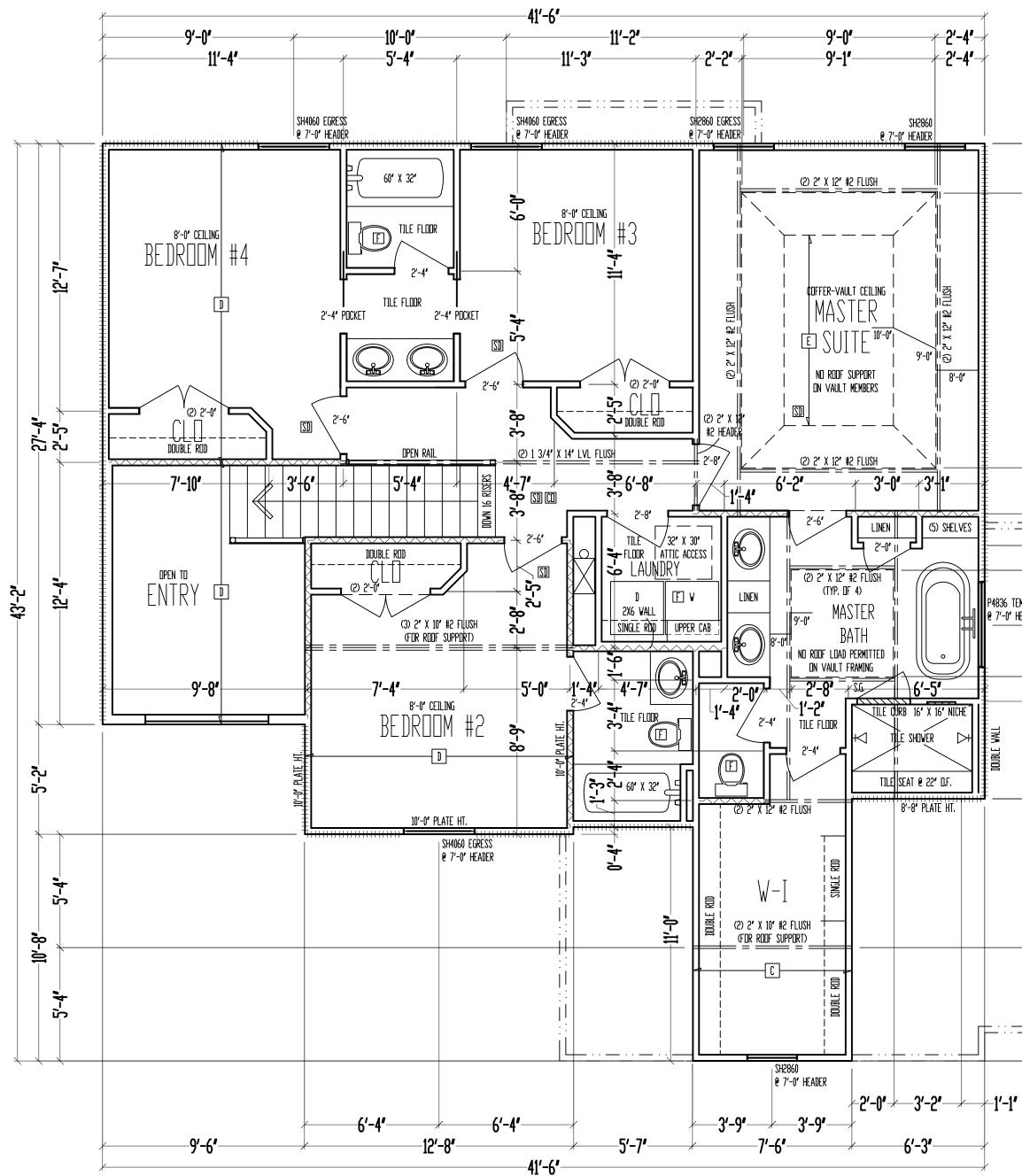




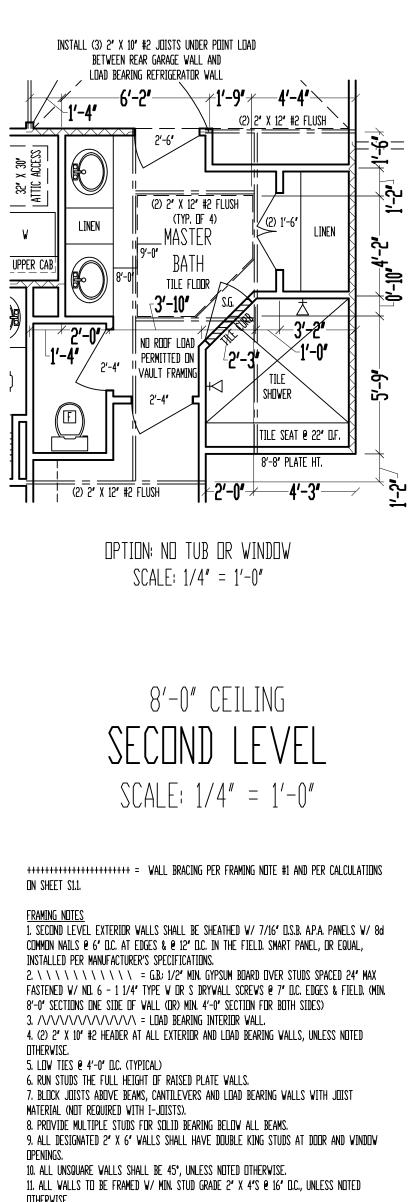
ROOF PLAN

Sheet No.: LEE'S SUMMIT, MISSOUR 03/01/2022





<u>+-2'-4'</u>--**2′-4″**-2'-4' = = = = = 12'-11' <u>}</u> \$ 8'-0**'** ູ່ -30'-10' ېر ار പ് **,9-,I** : <u>_____</u> : : <u>___</u> : : <u>___</u> : : <u>__</u> : : (5) SHELVES 43'-2" P4836 TEMP. € 7'-0" HEADER 1'-2' **-**2**-**3 4'-7" **,**)-,/ 12'-4' 5'-4"



DTHERWISE. 12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS @ 16' D.C. MAX. (WHERE APPLICABLE.)

13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:

(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM

(3) 1 3/4" LVL PLIES = 5 1/2" GLULAM

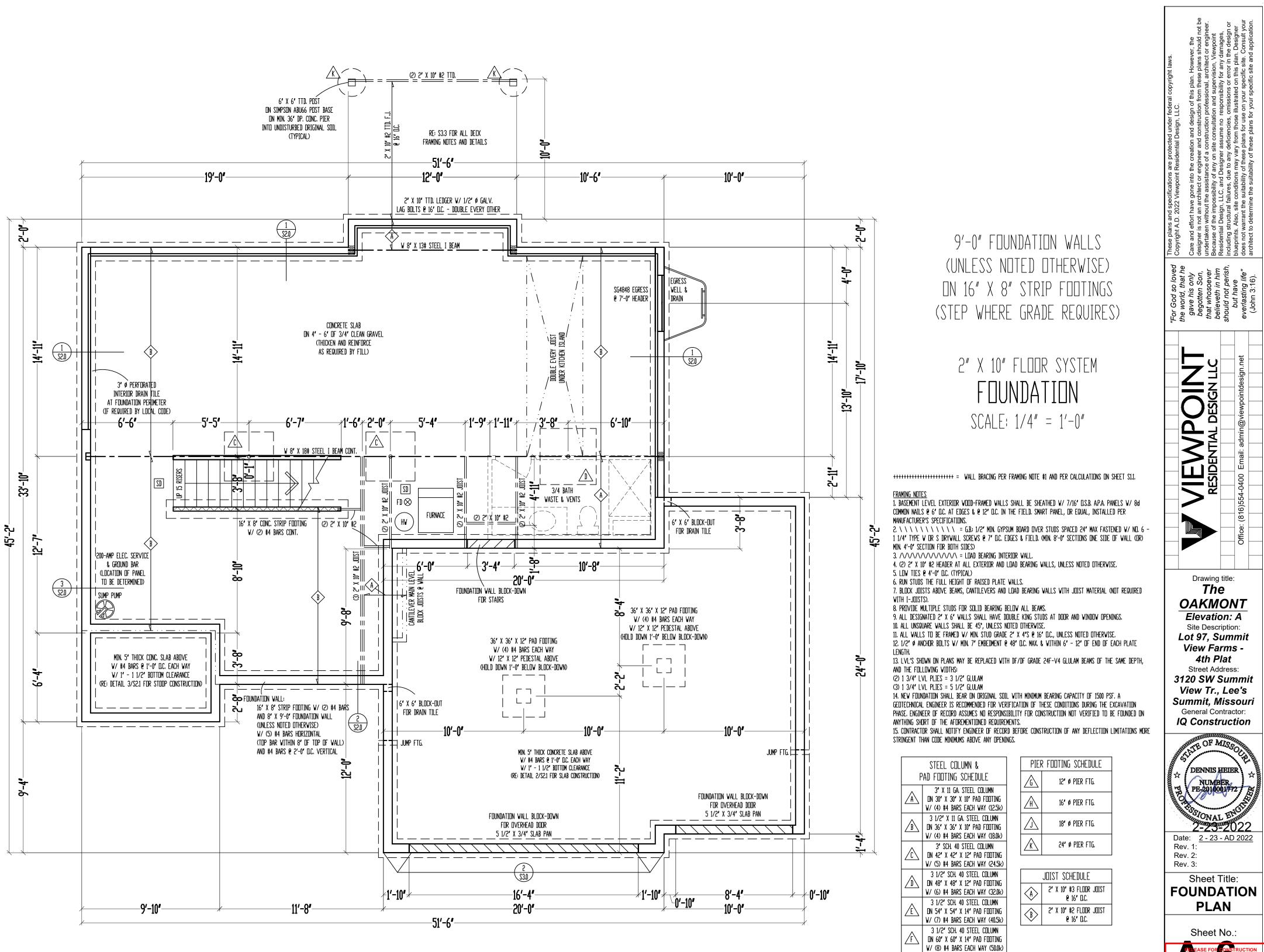
14. Contractor shall notify engineer of record before construction of any deflection limitations more stringent than code minimums above any defining.

	JOIST SCHEDULE
0	2" X 6" #3 CEILING JOIST @ 16" D.C.
D	2" X 6" #2 CEILING JOIST @ 16" D.C.

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Lo	Drawing title: The DAKMONT Elevation: A Site Description: Dt 97, Summit View Farms -	

Site Description: Lot 97, Summit View Farms -4th Plat Street Address: 3120 SW Summit View Tr., Lee's Summit, Missouri General Contractor: IQ Construction





LEE'S SUMMIT, MISSOUR 03/01/2022

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS						
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION				
ROOF ¹						
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 ¹ / ₂ " 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 ¹ / ₂ " 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 ¹ / ₂ " x 0.113")	TOE NAIL				
RIM JOIST, BAND JOIST, OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d BOX (2 ¹ / ₂ " 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
¹⁹ / ₃₂ " - 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		
¹ / ₂ " 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
- SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH 1/2" Ø ANCHOR BOLTS EMBEDDED A MINIMUM OF 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 1/2 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 31. ENGINEERED PARALLAMS SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E = 2000 ksi, AND Fv = 290 psi
- 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 λ_{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

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 5/8" 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 21/2"" 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 ^d			
FIRE ESCAPES	40	10			
GUARDRAILS AND HANDRAILS ^a	200 [°]	-			
GUARDRAIL IN-FILL COMPONENTS ^b	50 ^c	-			
PASSENGER VEHICLE GARAGES	50	DEPENDENT UPON SLAB CONSTRUCTION			
ROOMS OTHER THAN SLEEPING ROOM	40	10 ^d			
SLEEPING ROOM	30	10 ^d			
STAIRS	40	10 ^d			

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

- BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.1 OR THF 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 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

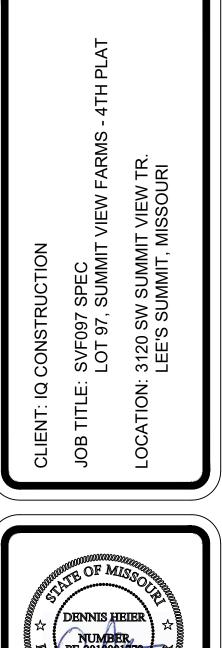
DUCT SEALING

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:

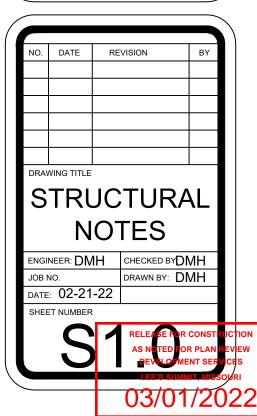
- AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS.
- WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE, THREE 2. SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT.
- CONTINUOUSLY 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		N SYSTEM FAN EFFICA	
FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE 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









	OF HOUSE						INPUT CALCULATED VALUE	
DETERMINE WEIGHT					DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (lbs.)	1
ROOF					10	1881	18810	
					10	1661	16610	1
ECOND FLOOR	•		•		10	1221	12210	
RST FLOOR					10	1661	16610]
				WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)]
ECOND FLOOR EXT.				169.34		8	10837.76]
RST FLOOR EXT. W/	ALL DL			193.34		10	19334	
					DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)	
ECOND FLOOR INT.	PARTITION WALL DL				6	1221	7326	
RST FLOOR INT. PA	RTITION WALL DL				6	1661	9966	
	PRO	OJECTED AREAS (WIND	DESIGN PER 115 MPH	3-SECOND GUST, EXPOSL	URE C AND MEAN ROOF HEIGHT <= 30	FT ASSUMED)		
	FRONT	-TO-BACK			SIDE-TO-SI	DE		
	AREA	LOAD			AREA	LOAD		
SLOPED ROOF	270	2272		SLOPED ROOF	208	1770		
VERT. ROOF	25	307	CUMULATIVE	VERT. ROOF	14	174	CUMULATIVE	
2ND	373.5	4681	7260	2ND	388.53	4851	6795	
1ST	566.5	6963	14223	1ST	496.87	6177	12972	
r		ZONE D		F) - PER ASCE CH. 6	70115 0	44.0	0- (510, 00, 0, 4, 40, 0, 57)	4
ł	SLOPED ROOF WALL/VERT. ROOF	ZONE B ZONE A		9.7 14.2	ZONE C ZONE D	11.3 7.7	2a (FIG. 28.6-1, ASCE7) 9.034	1
ł	MEAN ROOF HT., h	ZUNE A	24	14.2		1.1	9.034	1
If there is a walkout		ermine tributary wind area		kout, enter 0 for groa	L			J
ND FLOOR TRIBUTAN	RY WEIGHT)TION - %g - FROM AS(11.4-1)		4 _{210_ASD} −0.04 ₂₁₀ (Design		analysis under ASCE7-10 and IRC/IBC 2		40838.88 75460.76 12.0% 1.6 0.128 6.5	
				SEISMIC				
OCATION				SEISIMIC S		n ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * W	(B) (lbs.)
ND FLOOR					FIO	11 ASCE7 (Eq. 12.0-1).	v (- 1.2 3 _{DS} vv) 965	K) (IDS.)
ST FLOOR					· · · · · · · · · · · · · · · · · · ·	· · · · ·	1783	
	· · · · · · · · · · · · · · · · · · ·							
Sheathing	Location	Min. Sheathi	na Schedule	Fas	stening Schedule	Allowa	ble Shear (#/LF)	Code Reference
					penetration@ 6" OC Edges, 5" OC Field	7 40770		per IBC, Table
Exterior <u>(C</u>	<u>)ption #1)</u>	7/16" APA Rate	d Plywood/OSB		12" OC Field For 16" stud spacing		155	2306.3(1)
					penetration@ 4" OC Edges, 5" OC Field			
Exterior <u>(C</u>	<u>)ption #2)</u>	7/16" APA Rate	d Plywaad/OSB				230	per IBC, Table
					12" OC Field For 16" stud spacing			2306.3(1)
Exterior <u>(C</u>)ption #3)	7/16° APA Rate	d Plyward/OSB	1.	penetration@ 3" OC Edges, 5" OC Field		310	per IBC, Table
			·	For 24" stud spacing,	12" OC Field For 16" stud spacing			2306.3(1)
Exterior <u>(C</u>	terior <u>(Option #4)</u> 7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing		Field for 7/16" APA-rated pl	Penetration @ 6" O.C. Edges, 12" O.C. lywood/OSB or shiplap panel sheathing 12" O.C. Field for 3/8" shiplap panel sheathing	220		AF&PA SDPWS Table 4.3A	
Exterior <u>(0</u>	Option #5)	7/16" APA Rated Plywoo sheathing, or 3/8" shipla tighter nai	ap panel sheathing with	Field for 7/16" APA-rated pl	" penetration @ 4" O.C. Edges, 12" O.C. blywood/OSB or shiplap panel sheathing 12" O.C. Field for 3/8" shiplap panel			AF&PA SDPWS Table 4.3A
					sheathing			
Exterior <u>(0</u>	Dption #6)	7/16" APA Rated Plywoo sheathing, or 3/8" shipla tighter nail spacing and panel	ap panel sheathing with I double studs at each	8d Common Nails w/ 1-3/8"			410	AF&PA SDPWS Table 4.3A
	Dption #6) erior	sheathing, or 3/8" shipla tighter nail spacing and	ap panel sheathing with I double studs at each edge		sheathing " penetration @ 3" O.C. Edges, 12" O.C.		410	Table 4.3A per IBC, Table
		sheathing, or 3/8" shipla tighter nail spacing and panel	ap panel sheathing with I double studs at each edge		sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field			Table 4.3A
	prior	sheathing, or 3/8" shipla tighter nail spacing and panel	ap panel sheathing with I double studs at each edge um Board De WB Steel X-Brace (or	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs &	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field			Table 4.3A per IBC, Table
Inte	erior	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Tyj equ	ap panel sheathing with I double studs at each edge um Board De WB Steel X-Brace (or al)	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs &	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field screws @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per		60	Table 4.3A per IBC, Table
Inte	erior erior IG OPTION FOR SECO	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Tyj equ ND FLOOR	ap panel sheathing with double studs at each edge um Board De WB Steel X-Brace (or al)	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs &	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field Screws @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3)		60 325	Table 4.3A per IBC, Table 2306.4.4
Inte	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR	ap panel sheathing with I double studs at each edge um Board De WB Steel X-Brace (or al)	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs &	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field Screws @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.)	51.5	60	Table 4.3A per IBC, Table
Inte Inte TERIOR SHEATHIN TERIOR SHEATHIN	erior erior IG OPTION FOR SECO	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR	ap panel sheathing with double studs at each edge um Board De WB Steel X-Brace (or al)	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs &	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field Screws @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3)	51.5 45.17	60 325	Table 4.3A per IBC, Table 2306.4.4
Inte Inte TERIOR SHEATHIN TERIOR SHEATHIN	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR	ap panel sheathing with double studs at each edge um Board De WB Steel X-Brace (or al) 4 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs &	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.)		60 325 WIDTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5
Inte Inte TERIOR SHEATHIN TERIOR SHEATHIN	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR	ap panel sheathing with double studs at each edge um Board De WB Steel X-Brace (or al) 4 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs &	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.)	45.17 0	60 325 WIDTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5
Inte Inte TERIOR SHEATHIN TERIOR SHEATHIN	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR	ap panel sheathing with double studs at each edge um Board De WB Steel X-Brace (or al) 4 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs &	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.)	45.17	60 325 WIDTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5
Inte Inte TERIOR SHEATHIN TERIOR SHEATHIN	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per ications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S	45.17 0	60 325 WIDTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5
Inte Inte (TERIOR SHEATHIN (TERIOR SHEATHIN	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST	sheathing, or 3/8" shipla tighter nail spacing and 1/2" Gyps 16 Ga. Simpson/USP Ty equ ND FLOOR FLOOR MIENT WALLS	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4 5 4 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.)	45.17 0 2	60 325 WIDTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5
Inte	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST	sheathing, or 3/8" shipla tighter nail spacing and 1/2" Gyps 16 Ga. Simpson/USP Ty equ ND FLOOR FLOOR MIENT WALLS	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per ications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S	45.17 0	60 325 WIDTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5
Inte	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST	sheathing, or 3/8" shipla tighter nail spacing and 1/2" Gyps 16 Ga. Simpson/USP Ty equ ND FLOOR FLOOR MIENT WALLS	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4 5 4 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per ications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S	45.17 0 2	60 325 WIDTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5 43.17
Inte	erior IG OPTION FOR SECO IG OPTION FOR FIRST IG OPTION FOR BASE IG OPTION FOR BASE	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Ty equ ND FLOOR FLOOR FLOOR WIENT WALLS SE RESISTANCE (lbs.)	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi RIOR STRUCTURAL WALL L RESISTANCE (lbs.)	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field Barews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK	45.17 0 2 WIND RESISTANCE (lbs.)	60 325 WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.) SIDE-TO-SIDE	Table 4.3A per IBC, Table 2306.4.4 41.5 43.17 RESISTANCE (It
Inte Inte Inte ITERIOR SHEATHIN ITERIOR SHEATHIN ITERIOR SHEATHIN	erior IG OPTION FOR SECO IG OPTION FOR FIRST IG OPTION FOR BASE IG OPTION FOR BASE	sheathing, or 3/8" shipla tighter nail spacing and 1/2" Gyps 16 Ga. Simpson/USP Ty equ ND FLOOR FLOOR FLOOR WIENT WALLS SE RESISTANCE (lbs.) 16800	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi RIOR STRUCTURAL WALL L RESISTANCE (lbs.) 13440	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per ications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 60	45.17 0 2 WIND RESISTANCE (lbs.) 23520	60 325 WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5 43.17 RESISTANCE (Ik 18816
Inte	erior IG OPTION FOR SECO IG OPTION FOR FIRST IG OPTION FOR BASE IG OPTION FOR BASE	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Ty equ ND FLOOR FLOOR FLOOR WIENT WALLS SE RESISTANCE (lbs.)	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi RIOR STRUCTURAL WALL L RESISTANCE (lbs.)	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field Barews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK	45.17 0 2 WIND RESISTANCE (lbs.)	60 325 WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.) SIDE-TO-SIDE	Table 4.3A per IBC, Table 2306.4.4 41.5 43.17 RESISTANCE (II
Inte Inte Inte ITERIOR SHEATHIN ITERIOR SHEATHIN ITERIOR SHEATHIN	erior IG OPTION FOR SECO IG OPTION FOR FIRST IG OPTION FOR BASE IG OPTION FOR BASE	sheathing, or 3/8" shipla tighter nail spacing and 1/2" Gyps 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR FLOOR MIENT WALLS SE RESISTANCE (lbs.) 16800 32300	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 4 5 4 5 5 4 5 5 4 5 5 5 5 5 5 5 5 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi RIOR STRUCTURAL WALL L RESISTANCE (lbs.) 13440	sheathing " penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 60 85	45.17 0 2 WIND RESISTANCE (lbs.) 23520 45220	60 325 WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.)	Table 4.3A per IBC, Table 2306.4.4 41.5 43.17 RESISTANCE (II 18816 17556
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Inte	erior IG OPTION FOR SECO IG OPTION FOR FIRST IG OPTION FOR BASE IG OPTION FOR BASE	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gypsi 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR FLOOR WENT WALLS SE RESISTANCE (lbs.) 16800 32300 ADDITIONAL RESIS SEISMIC	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 4 5 4 5 5 4 5 5 4 5 5 5 5 5 5 5 5 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi RIOR STRUCTURAL WALL L RESISTANCE (lbs.) 13440	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 60 85 Anchor Bolt Spacing diameter (in.)	45.17 0 2 WIND RESISTANCE (lbs.) 23520 45220 in.) 0.5	60 325 WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.) SIDE-TO-SIDE 48 33 16d Nail Spacing req'd at 2nd Floor F-B	Table 4.3A per IBC, Table 2306.4.4 41.5 43.17 RESISTANCE (lb 18816 17556
Inte	erior IG OPTION FOR SECO IG OPTION FOR FIRST IG OPTION FOR BASE IG OPTION FOR SECO IG OPTION FOR SECO	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gyps 16 Ga. Simpson/USP Typequ ND FLOOR FLOOR FLOOR WIENT WALLS SEISTANCE (lbs.) 16800 32300 ADDITIONAL RESIS SEISMIC 0	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi RIOR STRUCTURAL WALL L RESISTANCE (lbs.) 13440	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 60 85 Anchor Bolt Spacing diameter (in.) Shear value (per NDS)	45.17 0 2 WIND RESISTANCE (lbs.) 23520 45220 (in.) 0.5 944	60 325 WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.) SIDE-TO-SIDE 48 33 16d Nail Spacing req'd at I 2nd Floor F-B 2nd Floor S-S	Table 4.3A per IBC, Table 2306.4.4 41.5 43.17 RESISTANCE (lb 18816 17556
Inte Inte XTERIOR SHEATHIN XTERIOR SHEATHIN	erior erior IG OPTION FOR SECO IG OPTION FOR FIRST IG OPTION FOR BASE IG OPTION FOR SECO IG OPTION F	sheathing, or 3/8" shipla tighter nail spacing and panel 1/2" Gypsi 16 Ga. Simpson/USP Tyj equ ND FLOOR FLOOR FLOOR WENT WALLS SE RESISTANCE (lbs.) 16800 32300 ADDITIONAL RESIS SEISMIC	ap panel sheathing with double studs at each edge um Board be WB Steel X-Brace (or al) 4 5 4 5 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5	No. 6- 1 ¹ /4" Type W or S So (3) 16d @ end studs & manufacturer specifi RIOR STRUCTURAL WALL L RESISTANCE (lbs.) 13440	sheathing "penetration @ 3" O.C. Edges, 12" O.C. Field Grews @ 8" O.C. Edges, 12" O.C. Field & (1) 8d @ intermediate studs (per fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 60 85 Anchor Bolt Spacing diameter (in.)	45.17 0 2 WIND RESISTANCE (lbs.) 23520 45220 in.) 0.5	60 325 WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.) SIDE-TO-SIDE 48 33 16d Nail Spacing req'd at 2nd Floor F-B	Table 4.3A per IBC, Table 2306.4.4 41.5 43.17 RESISTANCE (lbs 18816 17556

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?	
2ND FLOOR FRONT-TO-BACK	0					0	YES	
2ND FLOOR SIDE-TO-SIDE	0					0	YES	
1ST FLOOR FRONT-TO-BACK	0					0	YES	
1ST FLOOR 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 ALL LATERAL BRACING ACHIEVED AT EXTERIOR WALLS AND WALLS DIRECTLY ON FOUNDATIONS; THEREFORE, NO INTERIOR BRACING PER 2012 IRC SECTION R502.2.1 IS REQUIRE

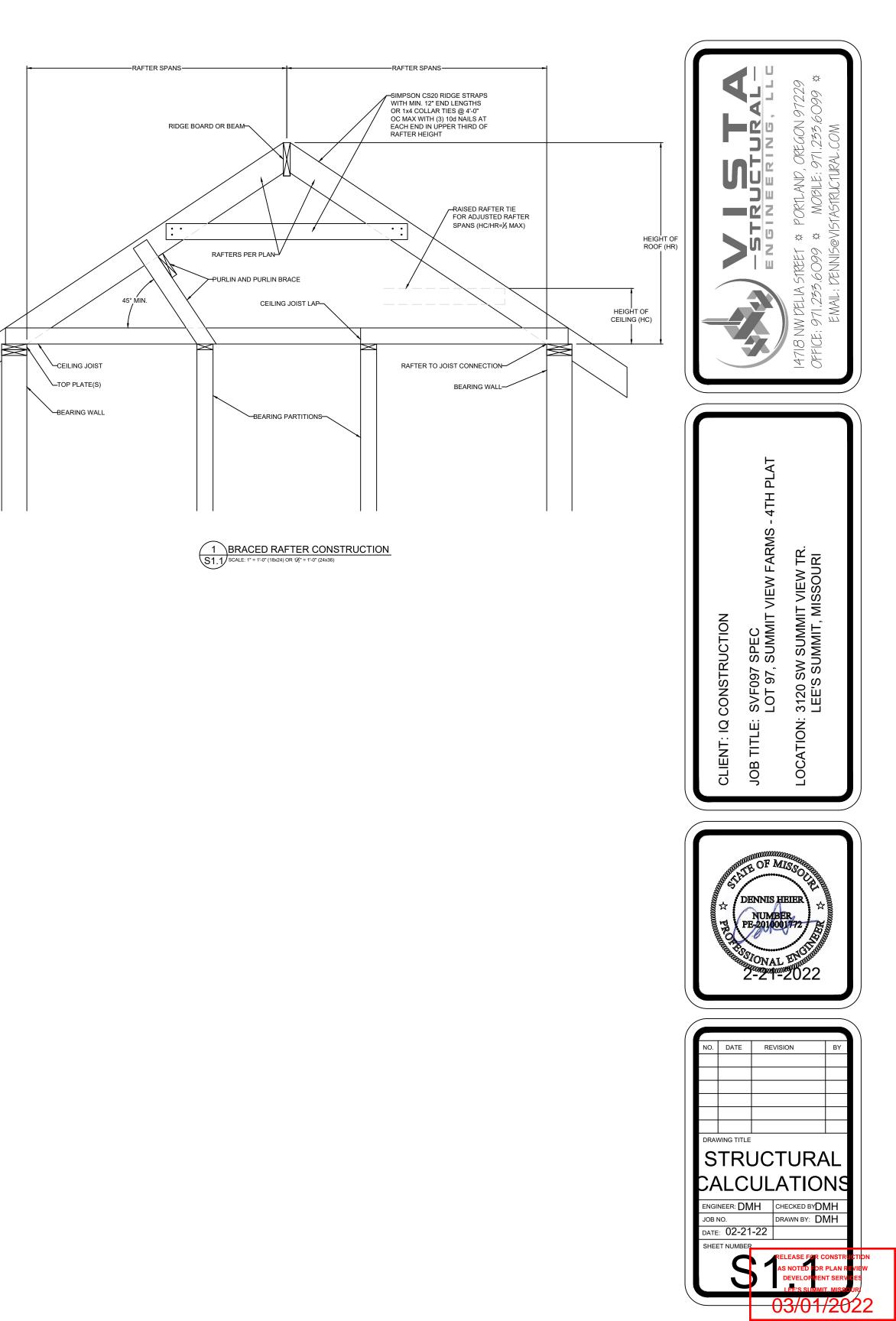
	WIND UPLIFT ANALYSIS								
	X/12	DEGREES				•			
ROOF PITCH (MAX)	8	33.7	PITCH OF 6 OR LESS: I	EOH -13.3, E -7.2, G -5.2					
		ASCE 7							
	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)					
OVERHANG	1	-1.08	195.34	-1.08					
	TOTAL AREA (FT ²)	ZONE E AREA (FT ²)	ZONE G AREA (FT ²)	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @ PERIMETER (LBS)		
MAIN ROOF**	2326.255	1203.364936	1122.890064	-1.08	-0.36	-1704	-8.8		
*ALONG PERIMETER		TOTAL UPLIFT PER LINEAL	FOOT ALONG EXTERIOR (PO	UNDS)	-9.9	UPLIFT OK			
**INSIDE EXTERIOR V	VALLS	RESISTANCE DUE TO DEAD	WEIGHT & (3) 10d TOENAILS	1	251.6				

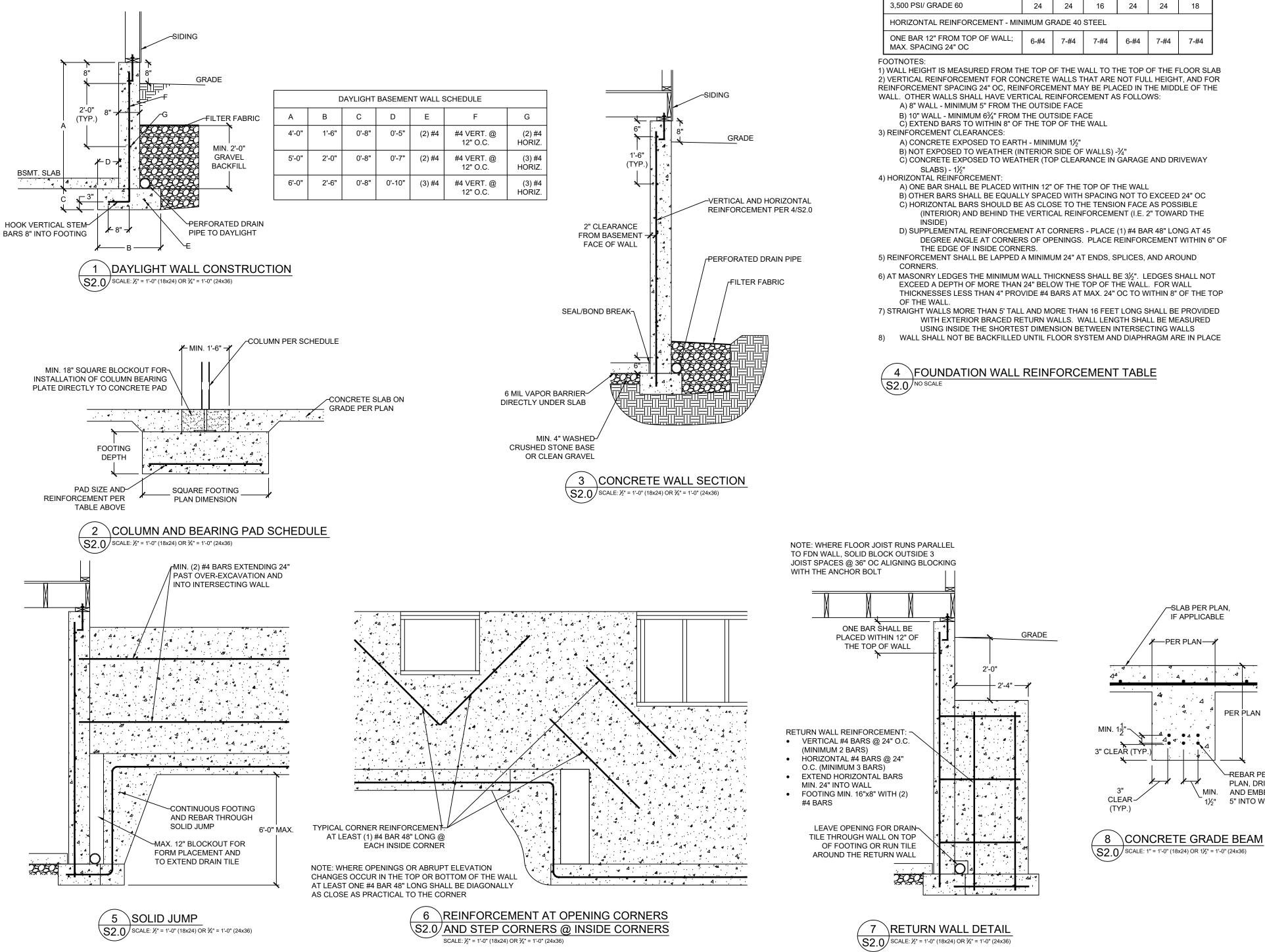
NOTE FOR CONSTRUCTION:

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



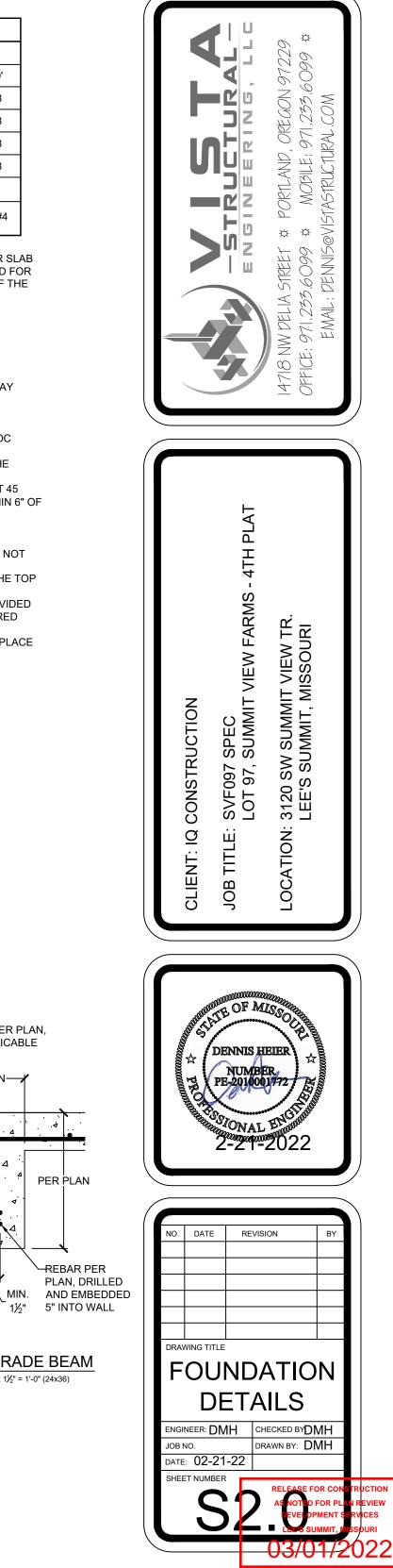


CONCRETE STRENGTH/GRADE	8"	THICK W	/ALL	10"	THICK W	/ALL
REINFORCEMENT (#4 BARS)	8'	9'	10'	8'	9'	10'
3,000 PSI/ GRADE 40	24	24	16	24	24	18
3,500 PSI/ GRADE 40	24	24	16	24	24	18
3,000 PSI/ GRADE 60	24	24	16	24	24	18
3,500 PSI/ GRADE 60	24	24	16	24	24	18
HORIZONTAL REINFORCEMENT - MIN	NIMUM G	RADE 40	STEEL	•		
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 CON EINFORCEMENT SPACING 24" OC, REIN VALL. OTHER WALLS SHALL HAVE VER A) 8" WALL - MINIMUM 5" FROM TH	NCRETE NFORCEI TICAL RI E OUTSI	WALLS T MENT MA EINFORC DE FACE	HAT ARE Y BE PLA EMENT A	NOT FUL	L HEIGH	T, AND FO
) WALL HEIGHT IS MEASURED FROM TH) VERTICAL REINFORCEMENT FOR CON EINFORCEMENT SPACING 24" OC, REIN 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 (IN C) CONCRETE EXPOSED TO WEAT SLABS) - 1½") HORIZONTAL REINFORCEMENT:	NCRETE NFORCEI TICAL RI E OUTSI THE OU ^T THE TO THE TO	WALLS T MENT MA EINFORC DE FACE ISIDE FA P OF THE MUM 1½"	HAT ARE AY BE PLA EMENT A CE E WALL	NOT FUL CED IN T S FOLLO	L HEIGH HE MIDD WS:	T, AND FC LE OF TH
) VERTICAL REINFORCEMENT FOR CON EINFORCEMENT SPACING 24" OC, REIN /ALL. 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 (IN C) CONCRETE EXPOSED TO WEAT SLABS) - 1½"	NCRETE NFORCEI TICAL RI E OUTSI THE OUT THE OUT THE TO THE TO THE TO THE TO THE OUT THIN 12" LY SPAC E AS CLO E VERTIC ENT AT C RS OF OF	WALLS T MENT MA EINFORC DE FACE ISIDE FA P OF THE SIDE OF MUM 1½" SIDE OF DP CLEAF OF THE ED WITH SE TO TH CAL REIN	THAT ARE AY BE PLA EMENT A CE WALLS) WALLS) TOP OF T SPACING HE TENSIG FORCEME S - PLACE	NOT FUL CED IN T S FOLLO GARAGE HE WALL NOT TO ON FACE ENT (I.E. 2 (1) #4 BA	AND DR EXCEED AS POSS TOWAF R 48" LO	T, AND FC LE OF TH IVEWAY 24" OC SIBLE RD THE NG AT 45
) VERTICAL REINFORCEMENT FOR CON EINFORCEMENT SPACING 24" OC, REIN VALL. OTHER WALLS SHALL HAVE VER A) 8" WALL - MINIMUM 5" FROM TH B) 10" WALL - MINIMUM 6³/₄" FROM C) EXTEND BARS TO WITHIN 8" OF) REINFORCEMENT CLEARANCES: A) CONCRETE EXPOSED TO EART B) NOT EXPOSED TO WEATHER (IN C) CONCRETE EXPOSED TO EART B) NOT EXPOSED TO WEATHER (IN C) CONCRETE EXPOSED TO WEAT SLABS) - 1½") HORIZONTAL REINFORCEMENT: A) ONE BAR SHALL BE PLACED WI B) OTHER BARS SHALL BE EQUALI C) HORIZONTAL BARS SHOULD BE (INTERIOR) AND BEHIND THE INSIDE) D) SUPPLEMENTAL REINFORCEME DEGREE ANGLE AT CORNER 	NCRETE NFORCEI TICAL RI E OUTSI THE OUT THE TO THE TO THE TO THE TO THER (TC THER (TC THIN 12" LY SPAC E AS CLO E VERTIC E AS CLO E VERTIC ENT AT C RS OF OF ERS.	WALLS T MENT MA EINFORC DE FACE ISIDE FA P OF THE SIDE OF MUM 1½" SIDE OF DP CLEAF OF THE ED WITH SE TO TH CAL REIN CORNERS PENINGS	THAT ARE AY BE PLA EMENT A CE WALLS) WALLS) TOP OF T SPACING HE TENSIG FORCEME S - PLACE F	NOT FUL CED IN T S FOLLO S FOLLO GARAGE THE WALL G NOT TO ON FACE ENT (I.E. 2 (1) #4 BA REINFOR	L HEIGH HE MIDD WS: AND DR EXCEED AS POSS 2" TOWAR R 48" LO CEMENT	T, AND FC LE OF TH IVEWAY 24" OC SIBLE RD THE NG AT 45 WITHIN 6"

6) AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3½". 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"

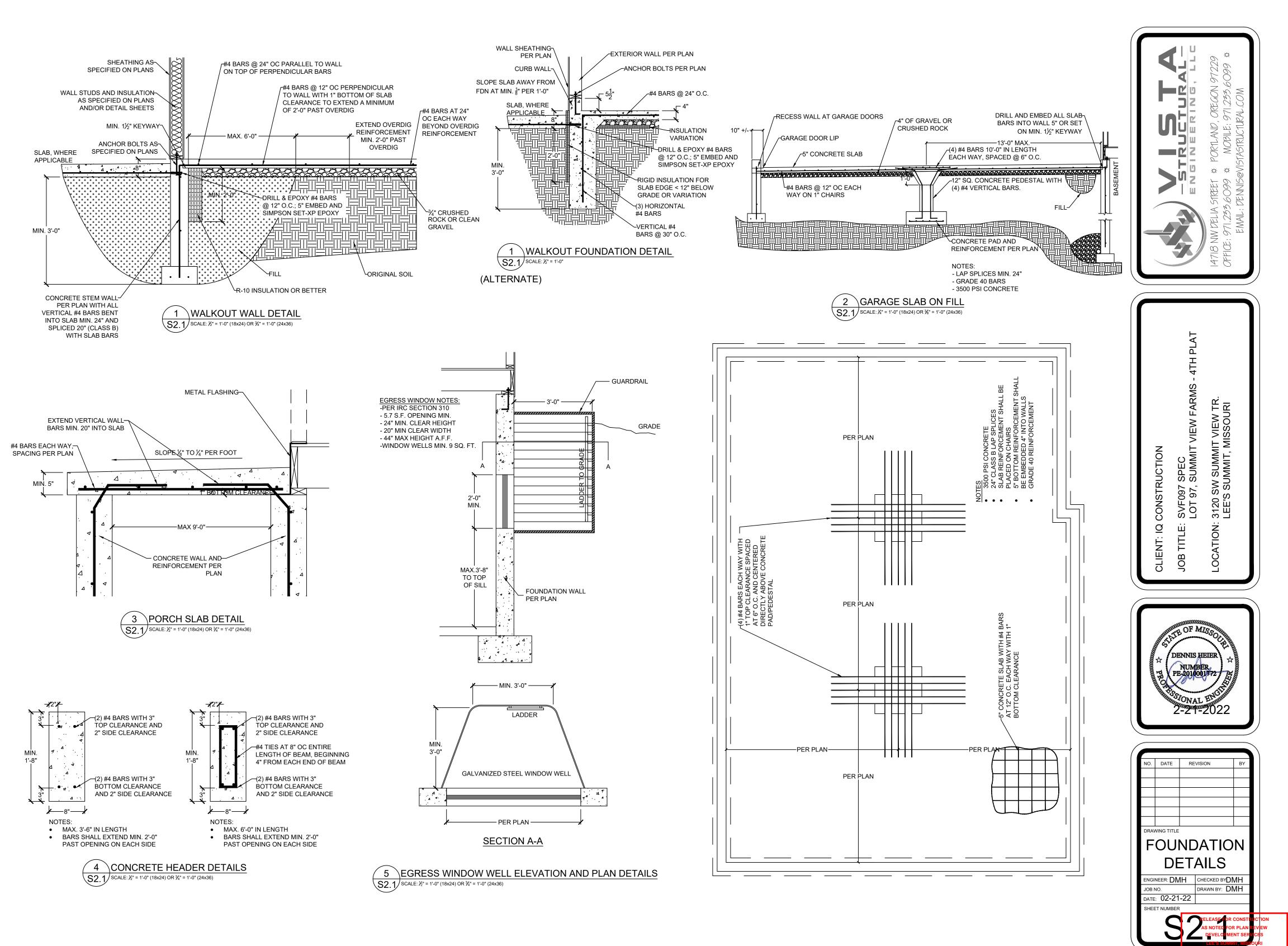
PER PLAN

-REBAR PER

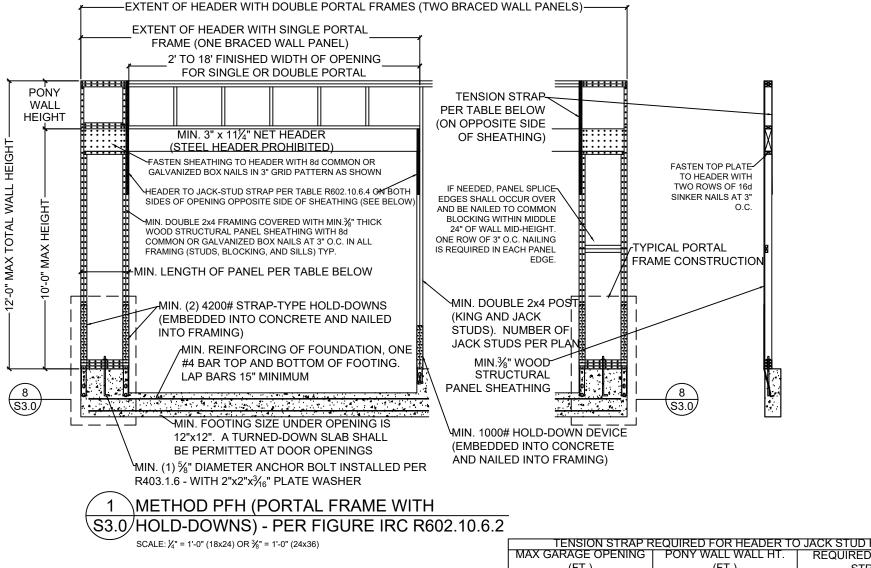
PER PLAN

· 4

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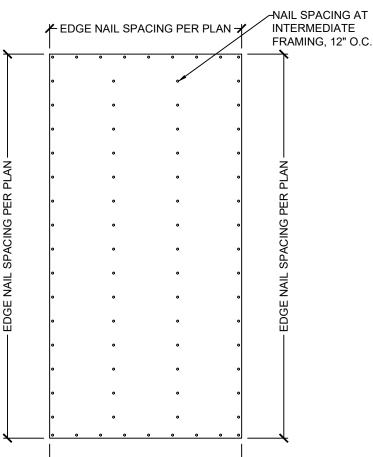


03/01/2022



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

	REQUIRED FOR HEADER TO		1/92 0 ANI
			1/33.0 ANI
MAX GARAGE OPENING	PONY WALL WALL HT.	REQUIRED SIMPSON	MIN. STRA
(FT.)	(FT.)	STRAP	
181.01	01.01	0000	
18'-0"	0'-0"	CS20	
9'-0"	1'-0"	CS20	
9-0	1-0	0320	
18'-0"	1'-0"	CS14	
18-0	1-0	0314	
9'-0"	2'-0"	CS18	
9-0	2-0	0318	
18'-0"	2'-0"	CMSTC16	
18-0	2-0	CMSTCT0	
9'-0"	4'-0"	CMSTC16	
9-0	4-0	CIVISTOTO	
16'-0"	4'-0"	CMST14	
10-0	4-0	CIVI3114	
•	•	•	•



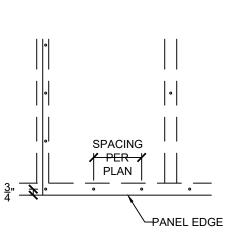
EDGE NAIL SPACING PER PLAN



SPACING PER -PLAN

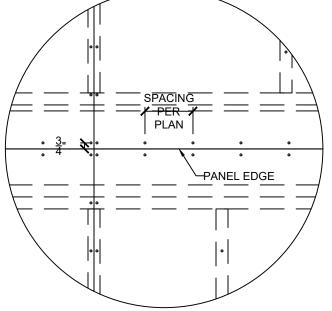
SHEATHING EDGE AT TOP PLATE

(SINGLE ROW OF FASTENERS)

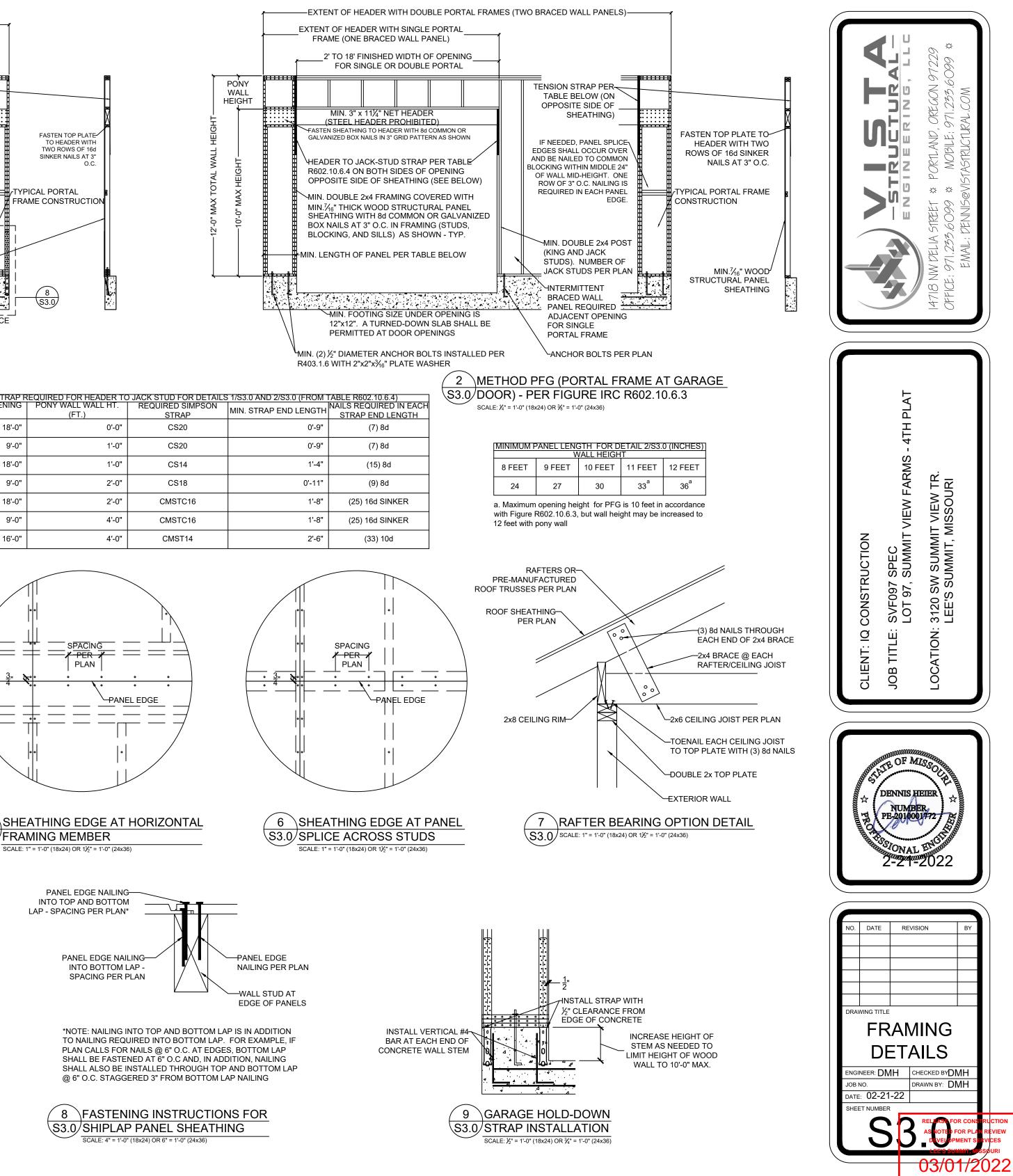


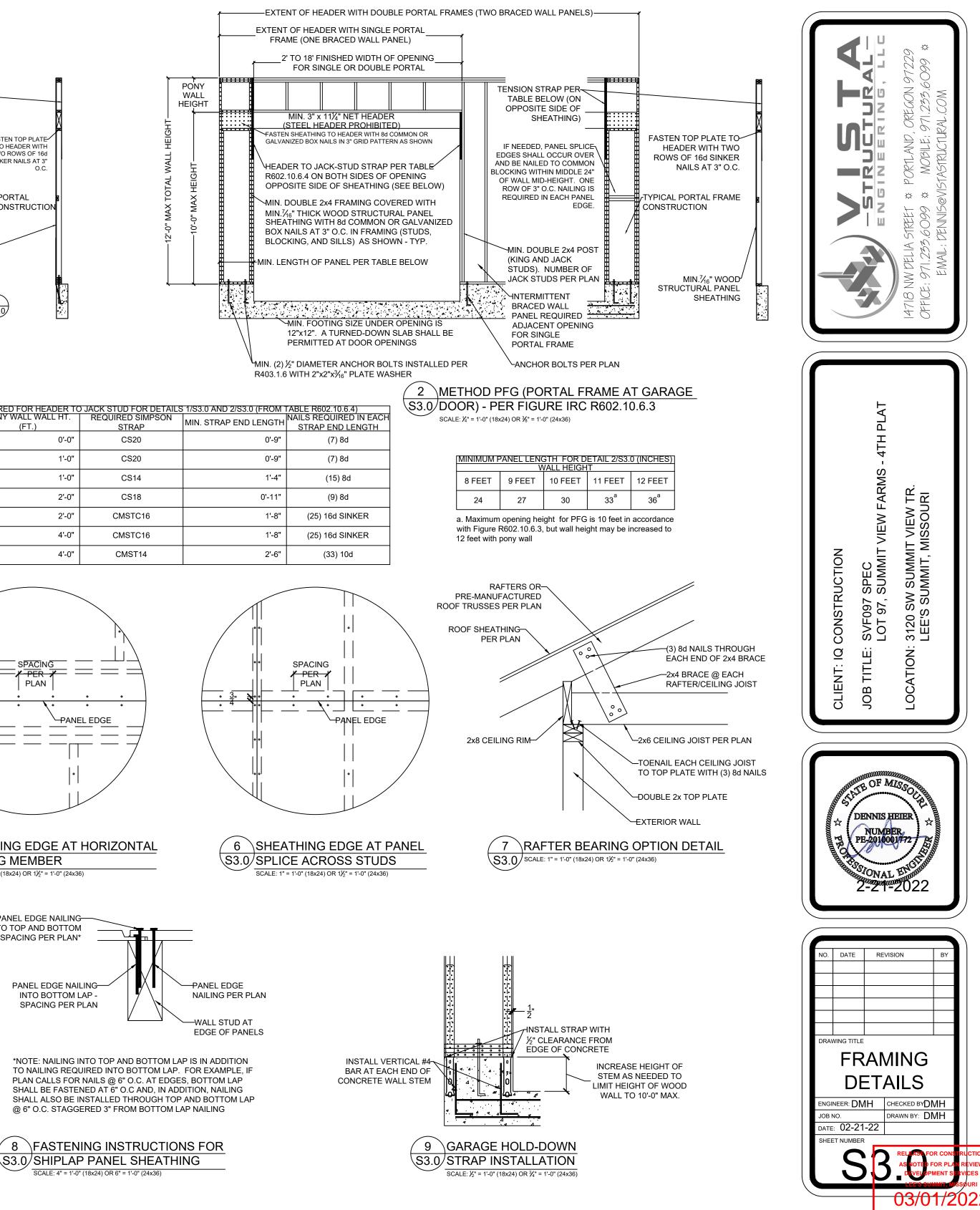
SHEATHING EDGE AT BOTTOM PLATE (SINGLE ROW OF FASTENERS)

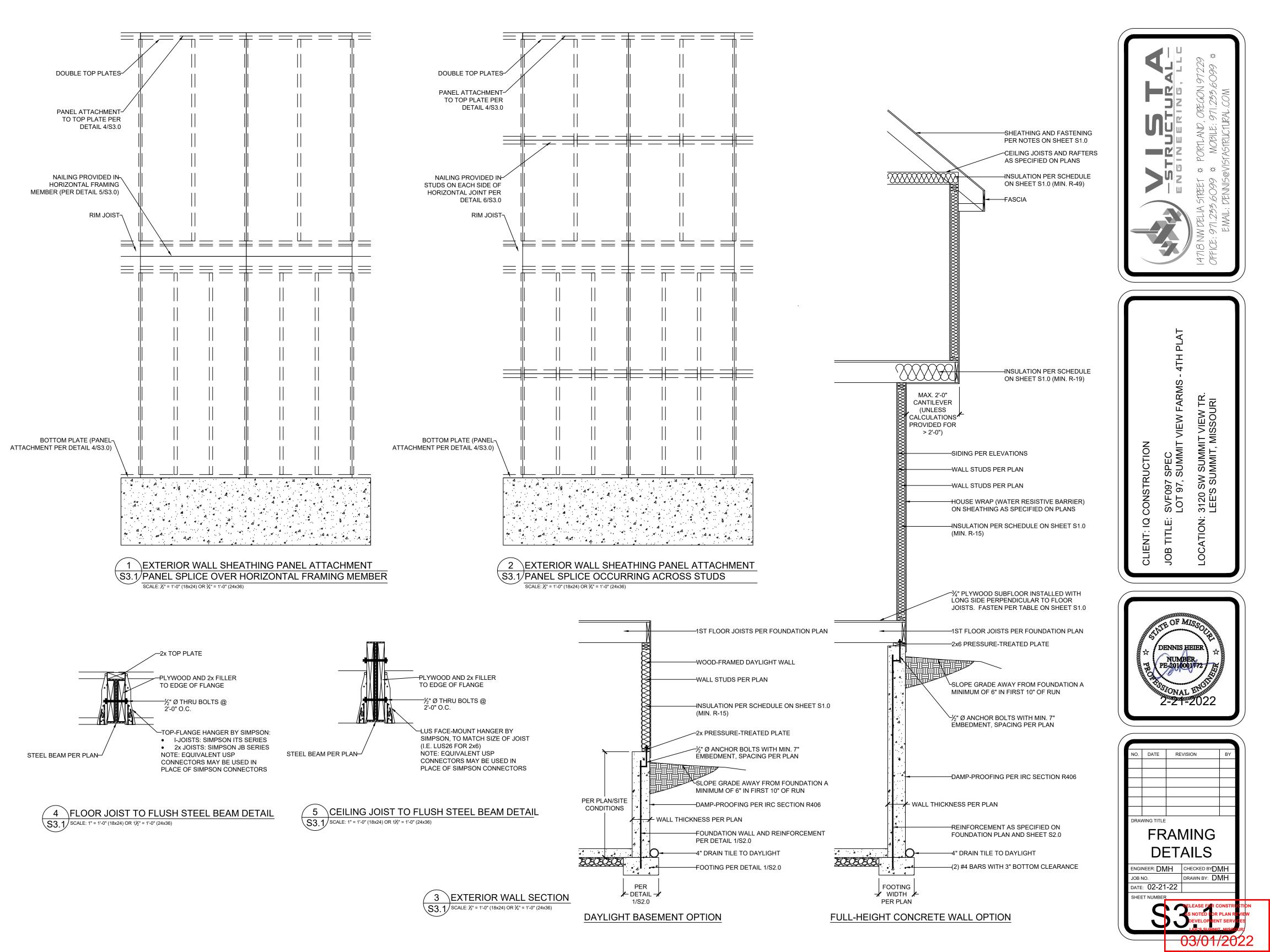


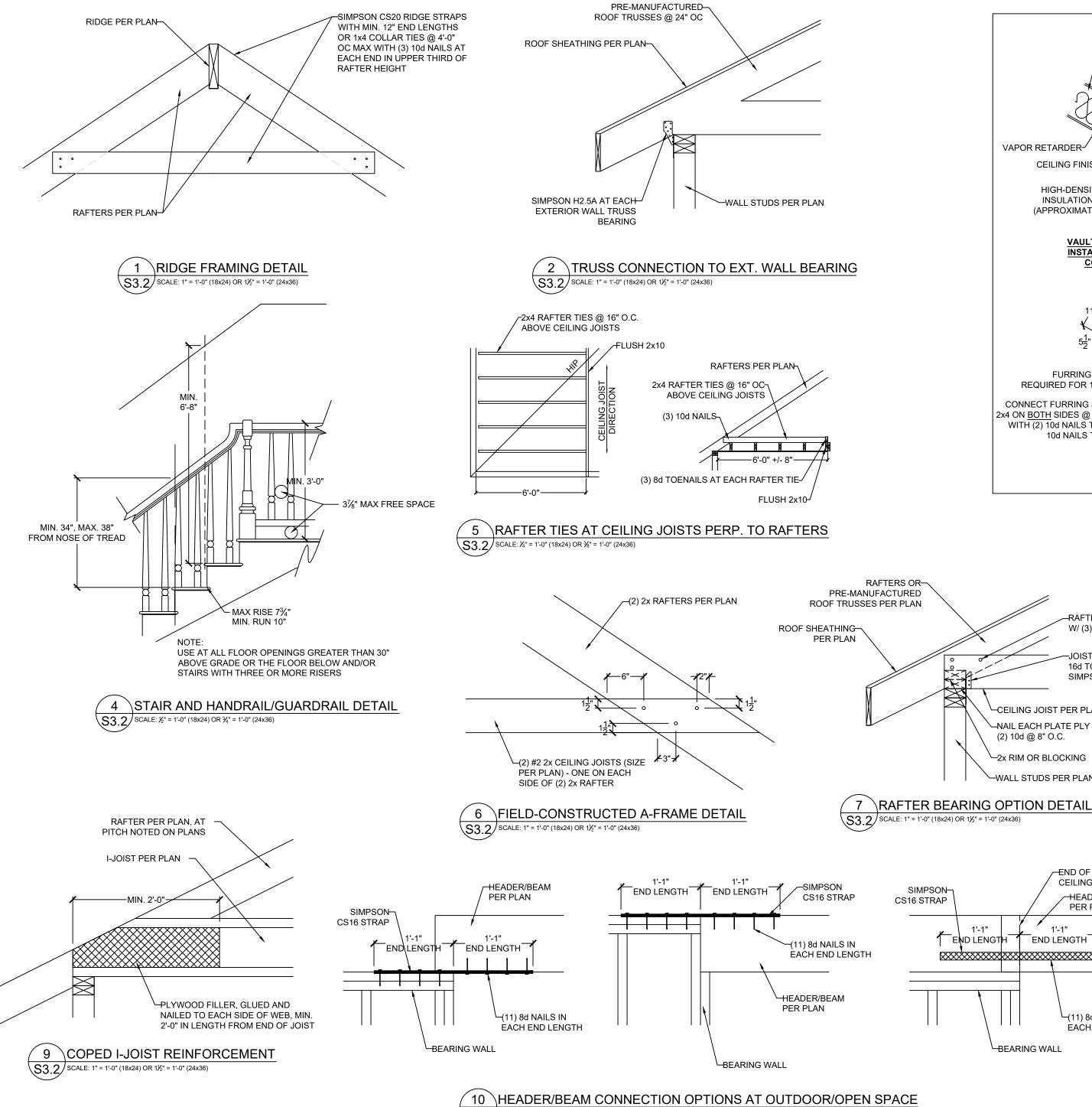


SHEATHING EDGE AT HORIZONTAL 5 ` S3.0/FRAMING MEMBER

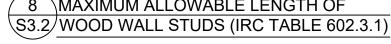








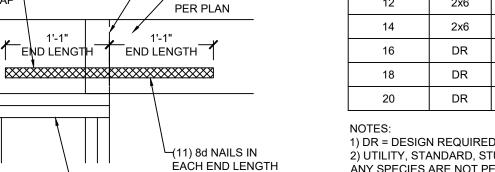
S3.2/SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



8 \MAXIMUM ALLOWABLE LENGTH OF

ANY SPECIES ARE NOT PERMITTED 3) THIS TABLE DOES NOT APPLY FOR STUDS SUPPORTING MEMBERS WITH A TRIB. LENGTH GREATER THAN 6'-0"

1) DR = DESIGN REQUIRED 2) UTILITY, STANDARD, STUD AND #3 GRADE LUMBER OF



x4 x4 x4 x4
x4
x4
x6
x6
x4
x4
x6
x6
x6
x6
x4
x6

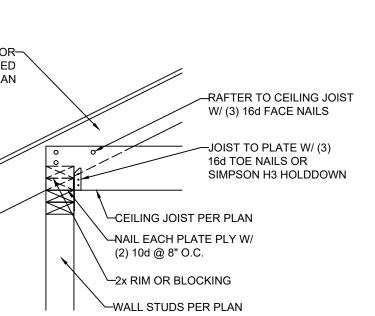
SPACING (INCHES O.C.)

16

SUPPORTING A ROOF ONLY

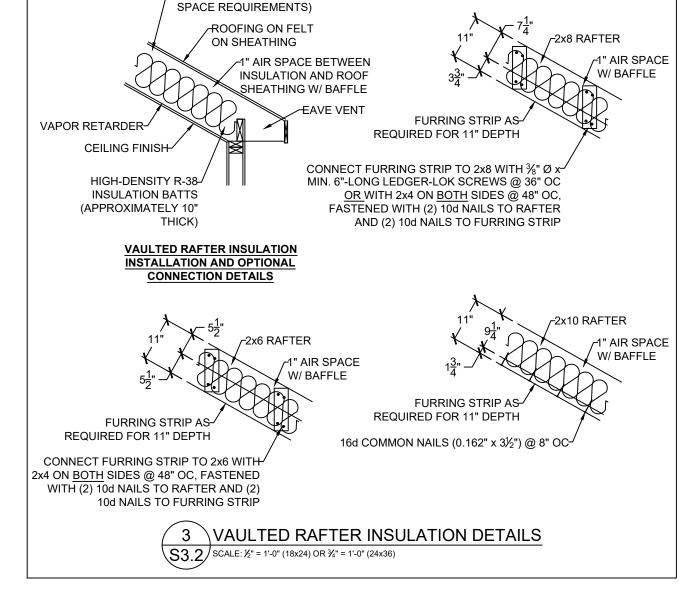
12

8



-HEADER/BEAM

CEILING JOIST



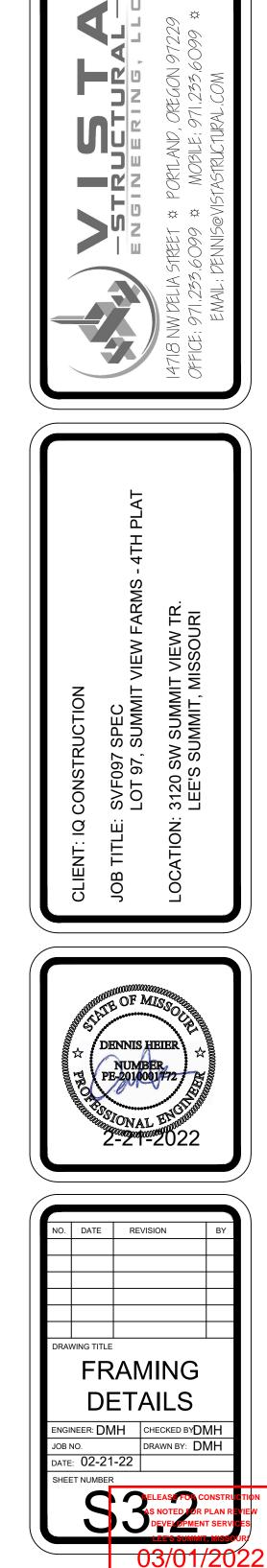
HEIGHT (FT.)

24

-2x12 RAFTERS (SHORTER

RAFTERS MAY BE FURRED DOWN

TO MEET INSULATION AND AIR



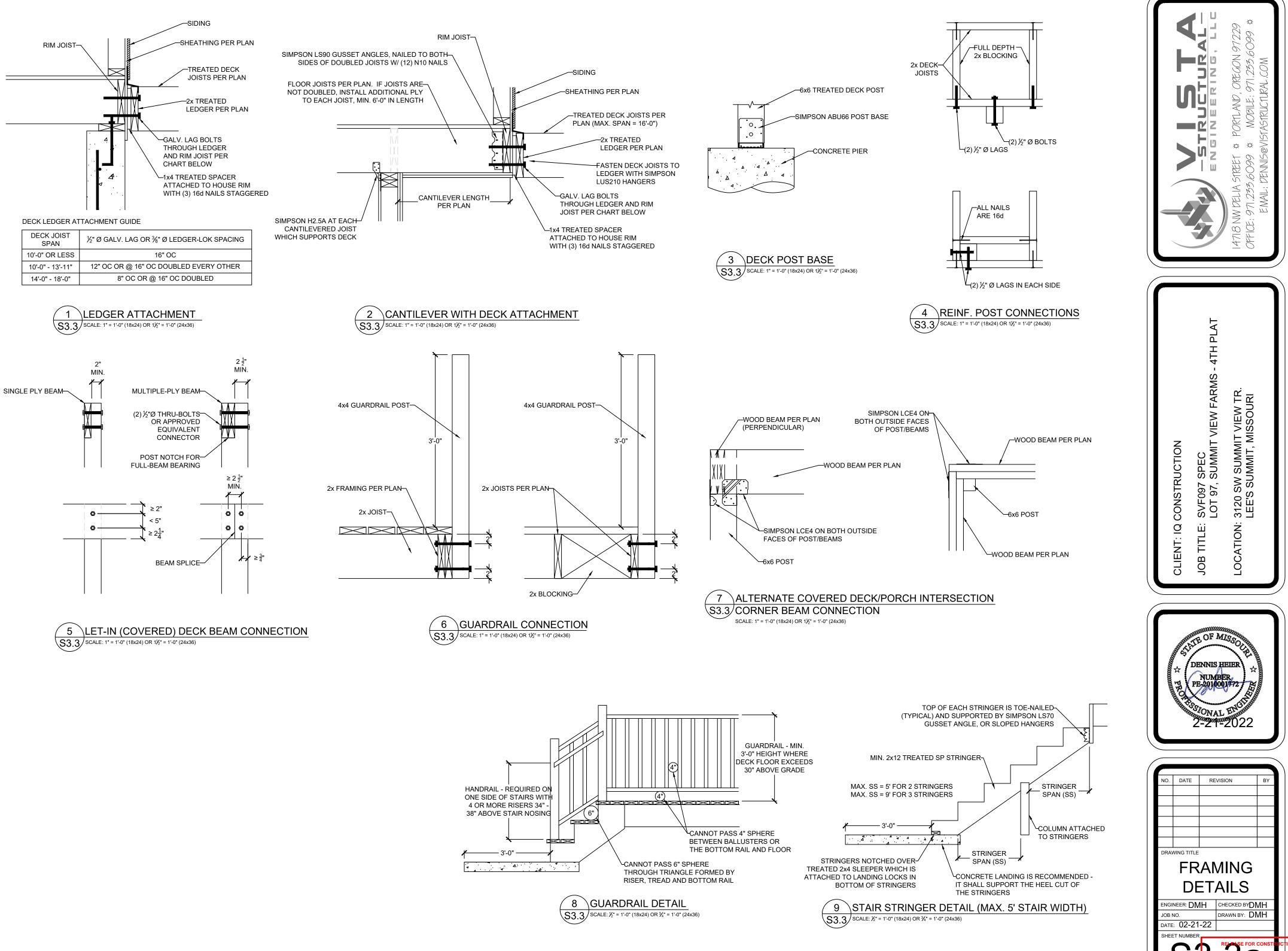
SIMPSON

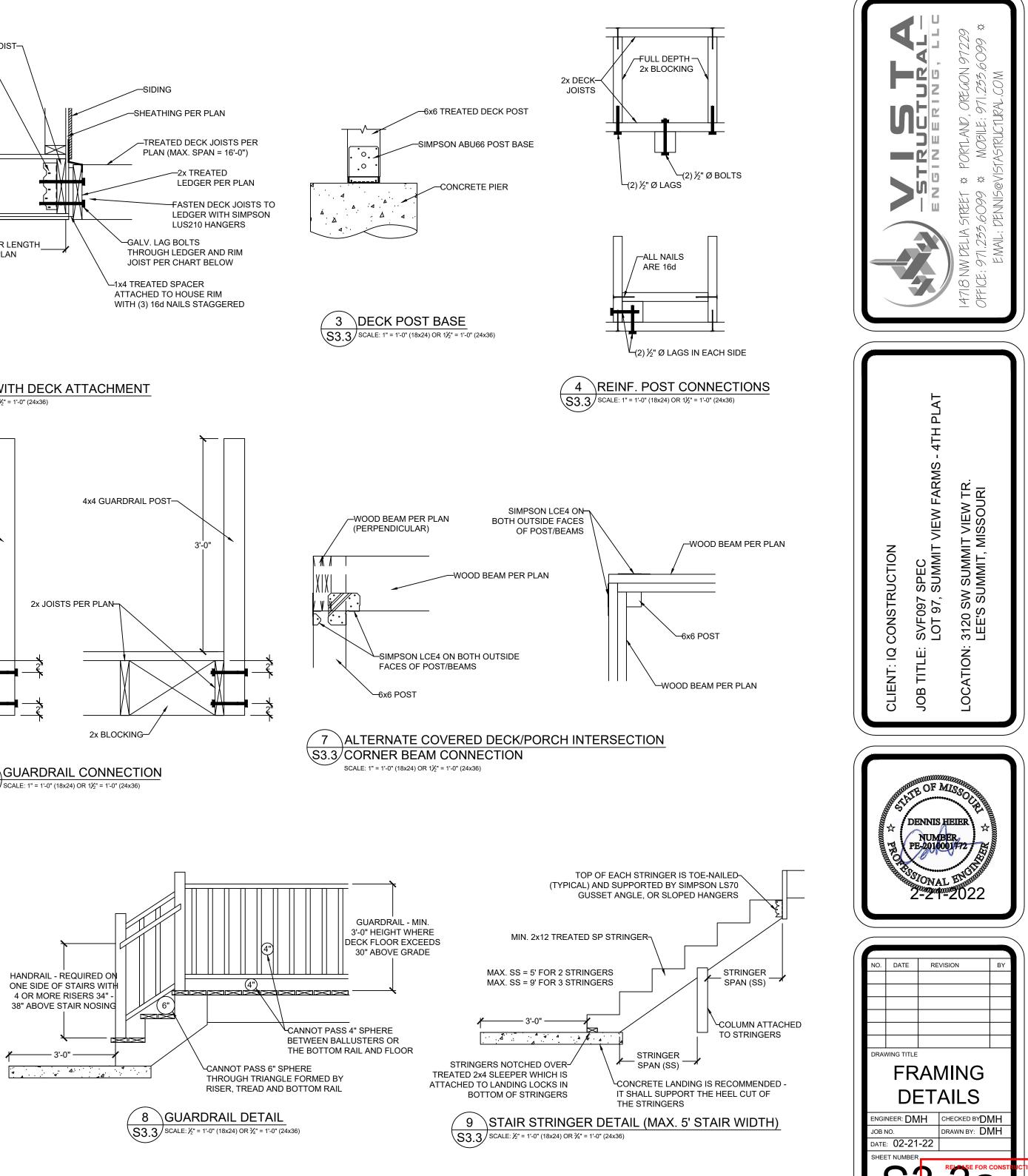
1'-1"

-BEARING WALL

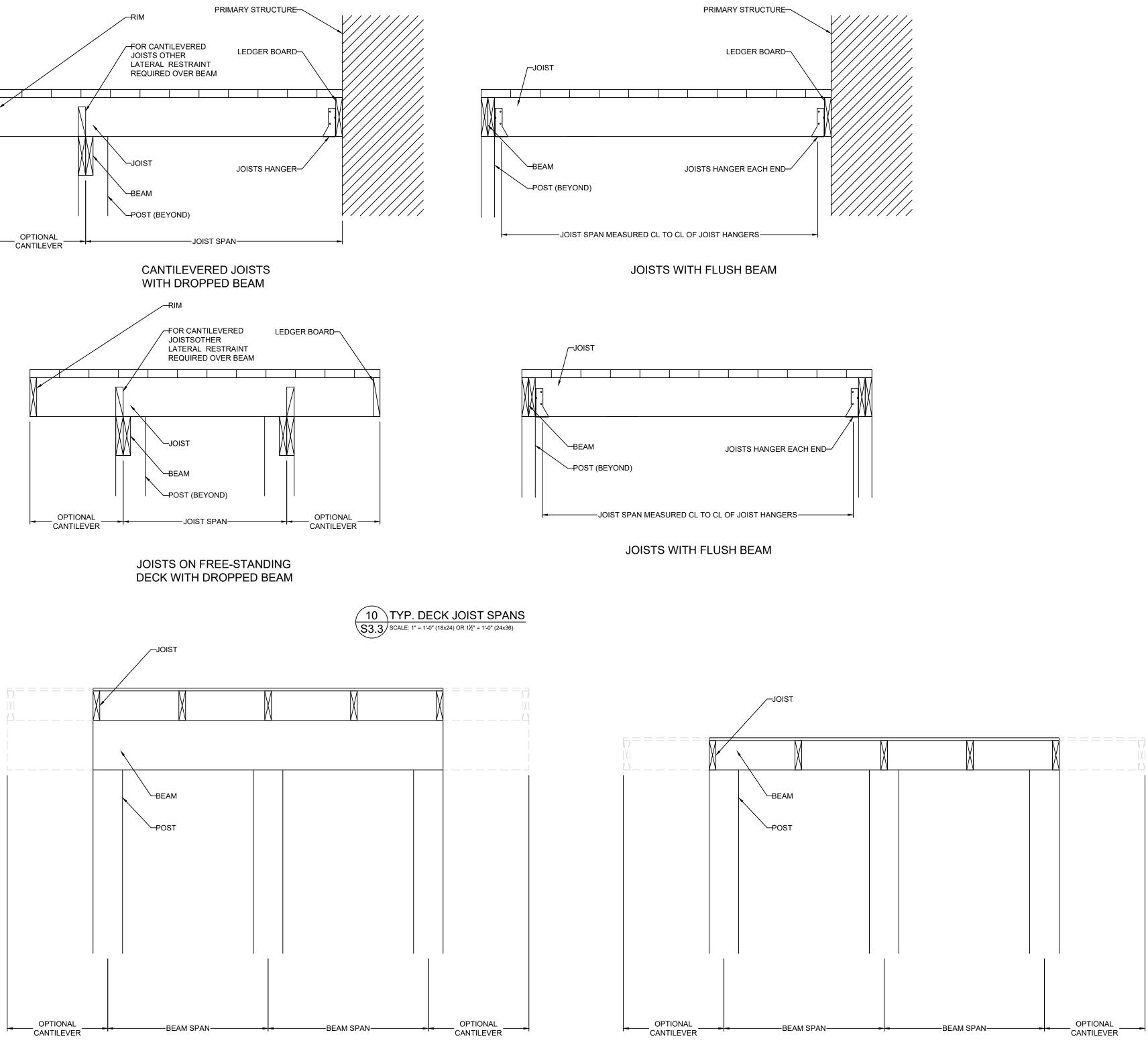
END LENGTH

CS16 STRAP





DROPPED BEAM



Þ 7229 90 ± 9 ט שו Í ON 80 112 112 Ê \neq יין ב POR1L, \geq U ¢ ¢ PLAT 4TH SVF097 SPEC LOT 97, SUMMIT VIEW FARMS 3120 SW SUMMIT VIEW TR LEE'S SUMMIT, MISSOURI CLIENT: IQ CONSTRUCTION JOB TITLE: LOCATION: JE OF MISS DENNIS HEIER PE-2010001772 VONAL EN 2-21-2022 DATE REVISION BY RAWING TITLE FRAMING DETAILS ENGINEER: DMH CHECKED BYDMH DRAWN BY: DMH JOB NO. DATE: 02-21-22 HEET NUMBE SB

03/0