

ROOF 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.

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

* RAFTERS (HEM-FIR, DDUG-FIR, DR EQUAL):

SEE SPAN CHARTS BELOW

	CODE MINI	MUM		_
	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN	
	#2-2x6	@ 24 " D.C.	11′-7 ′	
> >>	#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_2v10	A14" DC	21/_11/]

<u>| #2-2x10 | @16" LLC. | 21'-11" |</u> NDTE: CDDE MINIMUM ALLOWS FOR A RAFTER DEFLECTION OF L/180 TOTAL LOAD

HIGHER PERFORMANCE (RECOMMENDED)

	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN			
#2-2x6 @24" D.C.		@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	@16″ D.C.	16'-3 '			

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

* VAULTS TO BE 2x10 DEPTH * RIDGE BDARDS ARE: (UNLESS OTHERWISE NOTED)

- #2- 2X8 UP TO 10/12 PITCH
- #2- 2X10 DVER 10/12 PITCH

* ALL HIPS & VALLEYS ARE: (UNLESS DTHERWISE NOTED) - #2- 2X8 UP TD 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 NDT less than a

- 45 DEGREE ANGLE WITH THE HORIZONTAL
- ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH DF 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 (/), DOT IS BOTTOM OF BRACE (0).

DOT IS BOTTOM OF BRAC	Е(о),
* ~~~~~ DENDTES	BEARING WALL
* DENOTES	Roof Brace
* DENOTES	PURLIN
* DENOTES	BEARING STRUCTURE

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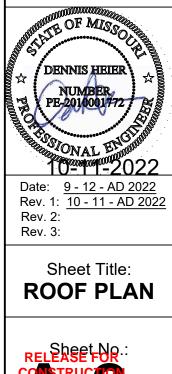
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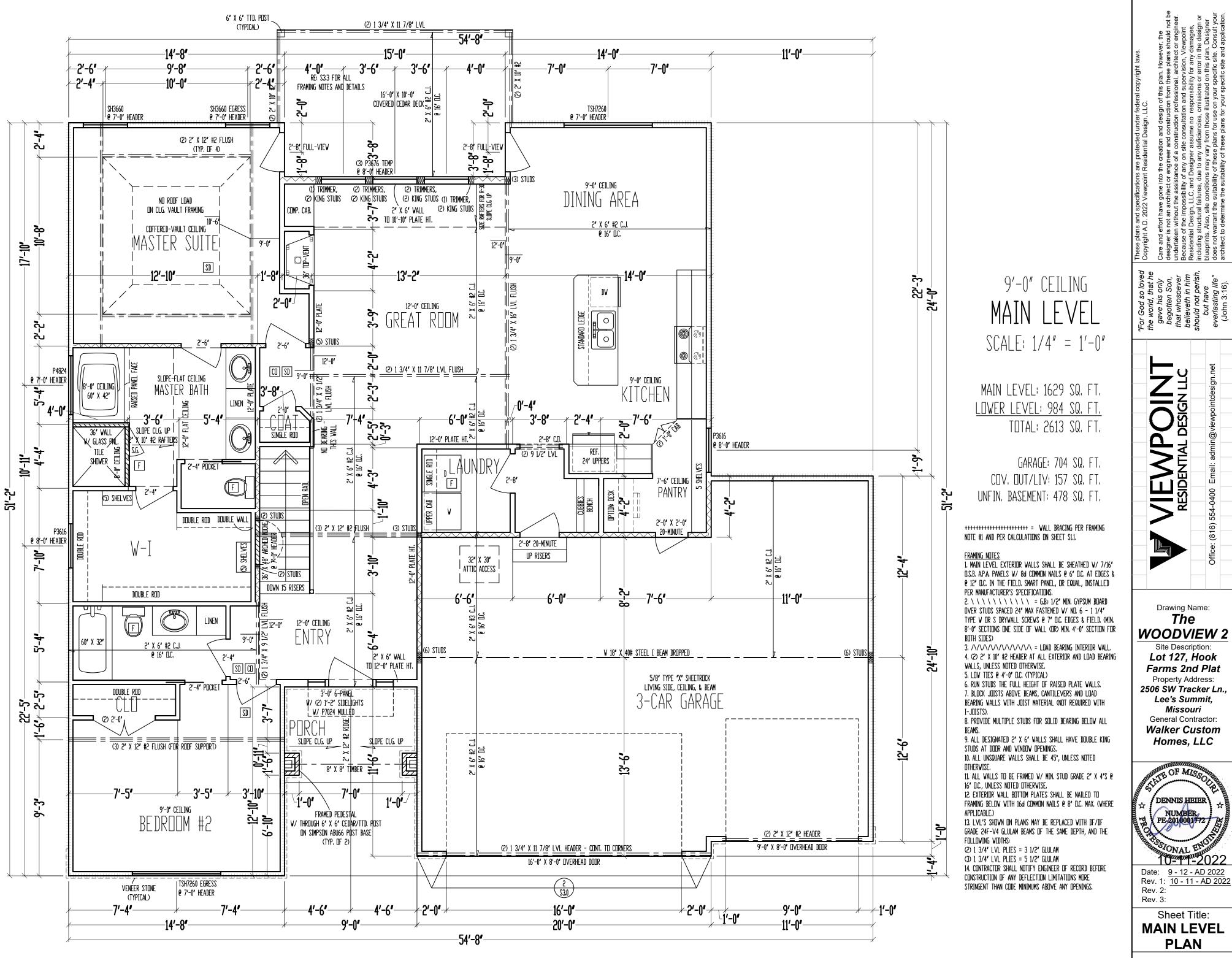
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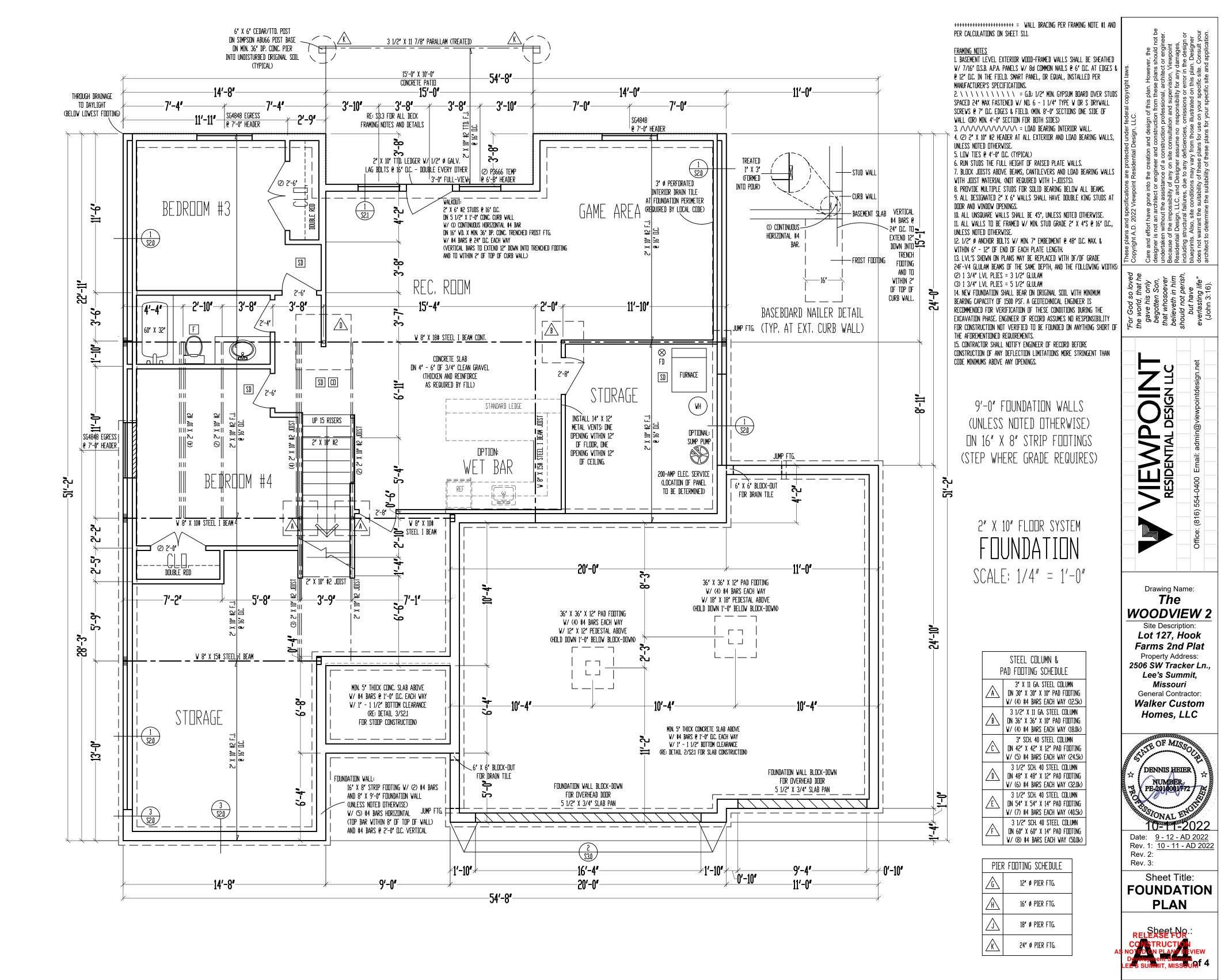
Drawing Name: The WOODVIEW 2 Site Description: Lot 127, Hook Farms 2nd Plat Property Address: 2506 SW Tracker Ln., Lee's Summit, Missouri General Contractor: Walker Custom Homes, LLC







RELEASE FOR: CONSTRUCTION NOTED ON PLANSIFYIEW Development Services Effectionent Medices



	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 (2 <mark>½</mark> " 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 (3 ½ " x 0.135")	12" O.C. FACE NAIL	
BUILT-UP HEADER, TWO PIECES WITH 🔏 "SPACER	16d (3 ½ " 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 ½" 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 ¹ / ₂ " x 0.135")		3 EACH 16" O.C. FACE NAIL	
TOP OR SOLE PLATE TO STUD, END NAIL 4-8d BOX (2 ¹ / ₂ " x 0.113") - TOENAIL; 3-16d BO 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 1 /2" x 0.113")	FACE NAIL	
1"x6" SHEATHING TO EACH BEARING	3-8d BOX (2 1/ " 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 ¹ / ₂ " 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 $\frac{1}{2}$ " 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	

SCRIPTION OF BUILDING MATERIALS	FASTNER SCHEDULE FOR DESCRIPTION OF FASTENER	STRUCTURAL MEMBERS EDGE SPACING (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
WOOD STRUCTURAL PANELS, SUB	FLOOR, ROOF AND INTERIOR WALL SHE	ATHING TO FRAMING AND PARTICLEBOA	ARD WALL SHEATHING TO FRAMING ¹
¥8" - ¥2"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	12
¹⁹ % 32" - 1"	8d COMMON NAIL (21/2" x 0.131")	6	12
1 % "- 1 % "	10d COMMON (3" x 0.148") NAIL OR 8d (21/2" x 0.131") DEFORMED NAIL	6	12
	OTHER WALL	SHEATHING	•
2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 ½" GALVANIZED ROOFING NAIL, 7 HEAD DIAMETER, OR 1 ¼" LONG 16 GA. STAPLE WITH 75 "OR 1" CROWN	3	6
2巻" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 दें" GALVANIZED ROOFING NAIL, 7 HEAD DIAMETER, OR 1 1 र्" LONG 16 GA. STAPLE WITH 7 6" 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
wo	OD STRUCTURAL PANELS, COMBINATIO	N SUBFLOOR UNDERLAYMENT TO FRAN	ling
ע" AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2 ² / ₂ " x 0.131") NAIL	6	12
8d COMMON (2½" x 0.131") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL		6	12
1 ½ " - 1 ¼ "	10d COMMON (3" x 0.148") NAIL OR 8d DEFORMED (22" 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

- CONCRETE SHALL BE AIR-ENTRAINED BETWEEN 5%-7% WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 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 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 17. 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 T/6" 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
- 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

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

PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 3'-8" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP.

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

- 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.
- ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 2. 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

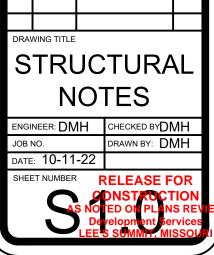
LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

MECHANICAL VENTILATION SYSTEM FAN EFFICACY					
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		









RESIDENTIAL SEISMIC & WIND ANALYSIS

			RECIDENT				
							INPUT
DETERMINE WEIGHT	OF HOUSE:						CALCULATED VALUE
LOCATION					DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (lbs.)
ROOF					10	2553	25530
CEILING					10	2553	25530
FIRST FLOOR					10	2553	25530
				WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)
FIRST FLOOR EXT. W	ALL DL			211.68	9	9	17146.08
					DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)
FIRST FLOOR INT. PA	ARTITION WALL DL				6	2553	15318
			DESIGN PER 115 MPH	3-SECOND GUST, EXPOSU	RE C AND MEAN ROOF HEIGHT <= 30	FT ASSUMED)	
FRONT-TO-BACK			SIDE-TO-S	IDE			
	AREA	LOAD			AREA	LOAD	
SLOPED ROOF	230	1946		SLOPED ROOF	434	3692	
VERT. ROOF	189	2336	CUMULATIVE	VERT. ROOF	0	0	CUMULATIVE
1ST	546.7	6756	11108	1ST	511.7	6361	10124
BSMT ^a	0	0	0	BSMT ^a	96	1359	6421
			PRESSURE (PSI	F) - PER ASCE CH. 6			
SLOPED ROOF ZONE B 9.7		9.7	ZONE C	11.3	2a (FIG. 28.6-1, ASCE7)		
WALL/VERT. ROOF ZONE A 14.2		14.2	ZONE D	7.7	10.234		
	MEAN ROOF HT., h						
-) If the same in a second langest	فيراجع المحاجب وأتحاج المحاج المحا	ormino tributory wind orog	and and a second second second	-lleast antes Ofer and			

a) If there is a walkout wall to be sheathed, determine tributary wind area and enter here. If no walkout, enter 0 for area. $q_{z10}=0.00256K_zK_{zt}K_dV^2$ (ASCE7-10 Velocity Pressure) $q_{z10_ASD}=0.6q_{z10}$ (Design Velocity Pressure for A q_{z10_ASD} =0.6 q_{z10} (Design Velocity Pressure for ASD analysis under ASCE7-10 and IRC/IBC 2012)

1ST FLOOR TRIBUTARY WEIGHT

BASEMENT TRIBUTARY WEIGHT S_s (SITE GROUND MOTION - %g - FROM ASCE7 SEISMIC MAP) F_a (from ASCE7 Table 11.4-1) $S_{DS} (= 2/3 * S_{S} * F_{a})$ R (from ASCE7 Table

59633.04 59633.04 12.0% 1.6 0.128 6.5

V (= 1.2 * S_{DS} * W / R) (lbs.)

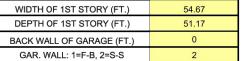
1409

LOCATION	$D_{\rm DS} (-2.5 \ O_{\rm S} \ T_{\rm a})$	
	R (from ASCE7 Table 12.2-1)	
1ST ELOOR	LOCATION	
	1ST FLOOR	

NT		· · · ·		1409
Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Shear (#/LF)	Code Referen
Exterior <u>(Option #1)</u>	7/15" APA Rated Plywood/OSB	1-1/2° 16ga. Staples w/ 1° penetration@ 8° OC Edges, 6° OC Field For 24° stud spacing, 12° OC Field For 16° stud spacing	155	per IBC, Tabl 2306.3(1)
Exterior <u>(Option #2)</u>	7/15" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 4" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	230	per IBC, Tabl 2306.3(1)
Exterior <u>(Option #3)</u>	7/15" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 3" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	310	per IBC, Tabl 2305.3(1)
Exterior <u>(Option #4)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 4" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	220	AF&PA SDP\ Table 4.3A
Exterior (Option #5)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	320	AF&PA SDP\ Table 4.3A
Exterior <u>(Option #6)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing and double studs at each pane edge	8d Common Nails w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C.	410	AF&PA SDP\ Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 1 ¹ / ₄ " Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field	60	per IBC, Tabl 2306.4.4
Interior	16 Ga. Simpson/USP Type WB Steel X-Brace (or equal)	(3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacture specifications - see detail on sheet S3)	325	

SEISMIC SHEAR

EXTERIOR SHEATHING OPTION FOR FIRST FLOOR	4
EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS	4



From ASCE7 (Eq. 12.8-1):

WIDTH OF 2ND STORY (FT.) 1 DEPTH OF 2ND STORY (FT.) 1

EXTERIOR STRUCTURAL WALL LENGTHS (ft.) & RESISTANCES											
		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	37.5	10500	77	30184	37.5	14700			
BASEMENT	EMENT 0 0 20.5		5740	5740 0		20.5	8036				
				1	Angles Datt Organiza	(in)	46d Neil Onesian meld	et hettere elete (in			
		ADDITIONAL RESIS			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	29			
1ST FLOOR SIDE-TO-	-SIDE	0	0		Spacing F-B (inches)	167.0					
BASEMENT FRONT-TO-BACK		0	0	1	spacing S-S (inches)	195.7					
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					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 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

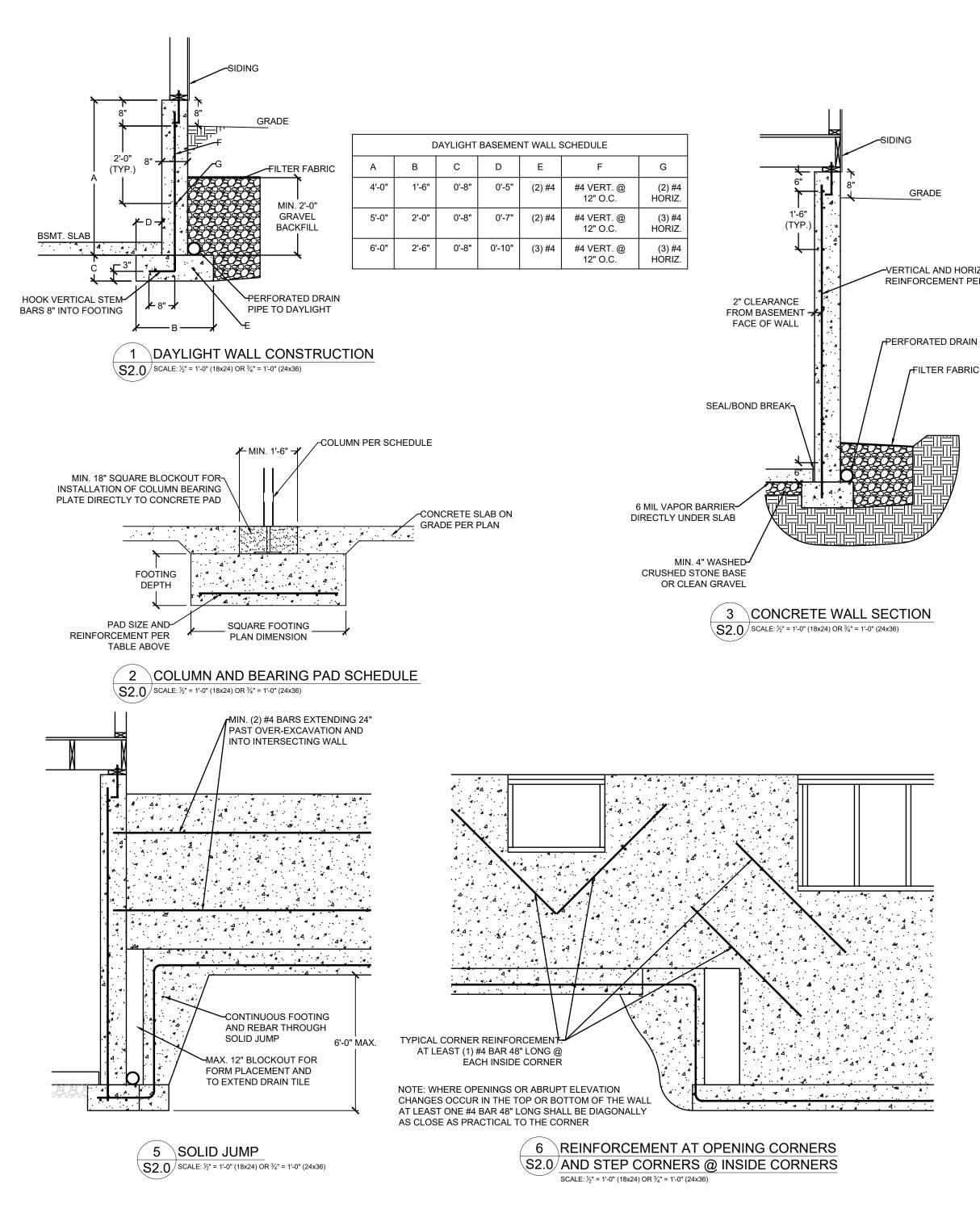
				WIND UPLIFT	ANALYSIS		
	X/12	DEGREES					
ROOF PITCH (MAX)	8	33.7	PITCH OF 6 OR LESS:	EOH -13.3, E -7.2, G -5.2			
		ASCE 7					
	LENGTH (FT.) PRESSURE (PSF) LINEAL FT. OF OH UPLIFT PER FT* (LBS)						
OVERHANG	1	-1.08	213.68	-1.08			
	TOTAL AREA (FT ²)	ZONE E AREA (FT ²)	ZONE G AREA (FT ²)	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @ PERIMETER (LBS)
MAIN ROOF**	2797.4639	-378.003024	3175.466924	-1.08	-0.36	-735	-3.5
*ALONG PERIMETER	*ALONG PERIMETER TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)					UPLIFT OK	
**INSIDE EXTERIOR V	VALLS	RESISTANCE DUE TO DEAD	WEIGHT & (3) 10d TOENAILS		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

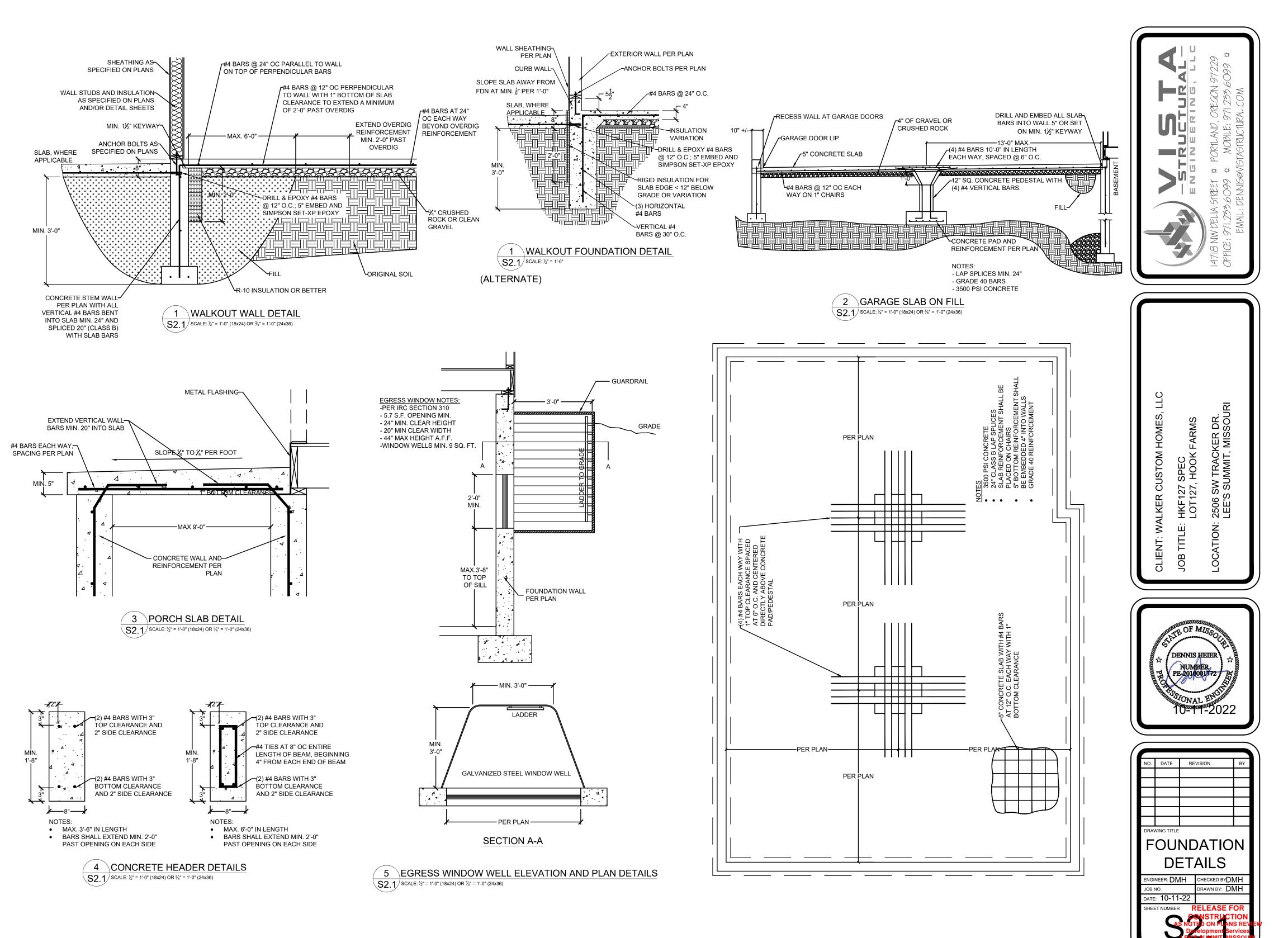
NOTE FOR DESIGN: ALL WALLS USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNINTERRUPTED HEIGHT OF 8'-0" AND LENGTH OF 2'-8". ALLOWABLE RESISTANCES HAVE BEEN #/FT AND INCREASED BY 40% FOR WIND LOADS, PER VALUES IN 2012 IBC SECTION 2306 AND AF&PA SDPWS TABLE 4.3A. FOR 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)

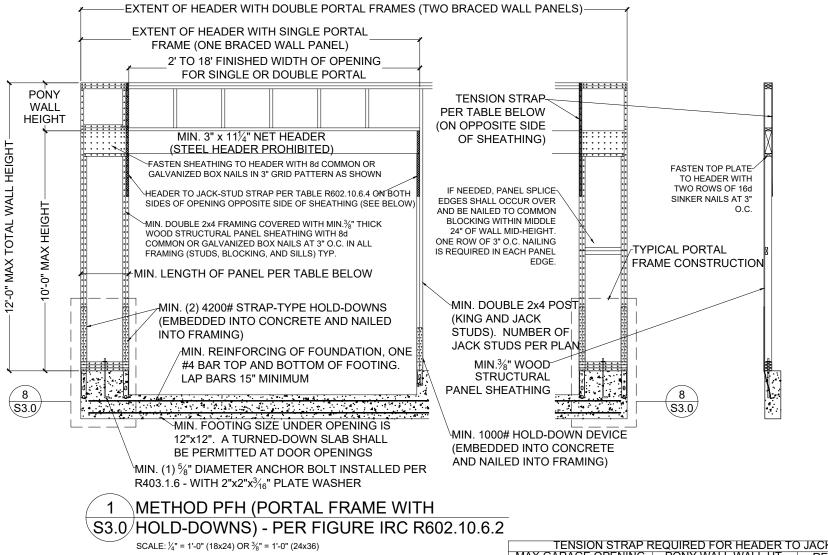
NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION

RAF	TER SPANS	RAFTER SPANS		
	RIDGE BOARD OR BEAM	SIMPSON CS20 RIDGE STRAPS WITH MIN. 12" END LENGTHS OR 1x4 COLLAR TIES @ 4'-0" OC MAX WITH (3) 10d NAILS AT EACH END IN UPPER THIRD OF RAFTER HEIGHT		2355.6099 # COM
	RAFTERS PER PLAN	RAISED RAFTER 1 FOR ADJUSTED R SPANS (HC/HR=½	AFTER	STREET & PORTLAND, OREGON 5.6099 & MOBILE; 971,235.60
45° MIN	PURLIN AND PURLIN BRACE			V DELIA 51 971,235.6 EMAIL: DE
	<u>_</u>		HEIGHT OF CEILING (HC)	
-CEILING JOIST -TOP PLATE(S) -BEARING WALL	BEARING PARTITIO	RAFTER TO JOIST CONNECTION-		I4718 N OPPICE
	1 BRACED RAFTER (S1.1 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0			IES, LLC AS DR. SOURI
	Combustion Air Calculation Per 2018 IRC Section G240	7.5		CUSTOM HOMES, LI 17 SPEC 17, HOOK FARMS 17, HOOK FARMS 17, HOOK FARMS 17, HOOK FARMS 17, MISSOURI SUMMIT, MISSOURI
	Appliance #1 Appliance #2 Appliance #3	Furnace Water Heater	100000 BTU/h BTU/h 50000 BTU/h	LKER CUSTOM HOMES HKF127 SPEC LOT127, HOOK FARMS 2506 SW TRACKER DR LEE'S SUMMIT, MISSOU
	Total BTU/hr		150000 BTU/h	ALKER (HKF12 LOT12 2506 S LEE'S
	Area of Combined Space (1 Ceiling Height in Usable Sp	loor where appliances are located) ace	758 ft ² 8.75 ft	CLIENT: WALKER CUSTOM HOMES, JOB TITLE: HKF127 SPEC LOT127, HOOK FARMS LOCATION: 2506 SW TRACKER DR. LOCATION: 2506 SW TRACKER DR. LEE'S SUMMIT, MISSOUI
	shall be considered as com one or more openings in d	a G2407.5.3.2, The volumes of spaces i municating spaces where such spaces oors or floors having a total minimum total input rating of all appliances	are connected by	Lo Jo Lo
		re located open to adjacent level? open space adjacent to appliance area	Yes ? 144	DENNIS HEIER
			m 7500 ft ³	DENNIS HEIER PE-2010001772 PE-20100000000000000000000000000000000000
			857 ft ²	10-11-2022
	Required combined area: Area of Combined Space >	Required combined area?	OK	
	Per Section G2407.5.3.1, e area of 1 square inch per 1 appliances in the space, bu opening shall commence w shall commence within 12	ach opening shall have a minimum fre .,000 BTU/hr of the total input rating o ut not less than 100 square inches. On vithin 12 inches of the top and one op- inches of the bottom of the enclosure of air openings shall be not less than 3	e of all e ening	NO. DATE REVISION BY
	Minmum required opening Minimum grill size: Note: two grills required -	g area: one within 12" of floor, one within 12'	150 in ² 14 x 11 (inches) ' of clg.	ENGINEER: DMH CHECKED BYDMH JOB NO. DRAWN BY: DMH DATE: 10-11-22 RELEASE FOR SHEET NUMBER RELEASE FOR CONSTRUCTION CONSTRUCTION
				AS NOTED ON PLANS REVI Development Services UEE'S SUMMIT, MISSOUR



	VERTICAL REINFORCEMENT SPACIN	IG						*
	CONCRETE STRENGTH/GRADE REINFORCEMENT (#4 BARS)							91229 099
	3,000 PSI/ GRADE 40	8' 24	9' 24	10' 16	8' 24	9' 24	10' 18	
	3,500 PSI/ GRADE 40	24	24	16	24	24	18	OREGON 071.235.(AL.COM
	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 GI	RADE 40	STEEL				PORILAND, MOBILE: MOBILE:
	ONE BAR 12" FROM TOP OF WALL; MAX. SPACING 24" OC	6-#4	7-#4	7-#4	6-#4	7-#4	7-#4	
RIZONTAL PER 4/S2.0 IN PIPE IC	· · · · · · · · · · · · · · · · · · ·	HE TOP C NCRETE NFORCEI TICAL RE IE OUTSII THE OUT THE OUT THE OUT THE OUT THE TO THE TO THE TO THE OUT THE OU	DF THE W WALLS T MENT MA EINFORC DE FACE ISIDE FA P OF THE SIDE OF DP CLEAF OF THE ED WITH SE TO TH CAL REIN CORNERS PENINGS DW THE BARS AT DRE THA VALLS. W NSION BE LOOR SY	ALL TO HAT ARE Y BE PL/ EMENT A EMENT A CE WALLS) WALLS) WALLS) WALLS) TOP OF SPACING HE TENS FORCEM S - PLACE I ENDS, S S SHALL I MAX. 24' N 16 FEE /ALL LEN TWEEN S TEM AN	THE TOP (NOT FUL ACED IN T AS FOLLO -3/4" I GARAGE THE WALL G NOT TO ION FACE ENT (I.E.: (1) #4 BA REINFOR SPLICES, BE 3/2". L THE WALL ' OC TO W T LONG S GTH SHA INTERSEC ND DIAPH	OF THE F LL HEIGH THE MIDE WS: E AND DR E EXCEEL AS POS 2" TOWA CEMENT AND ARC EDGES S FOR W /ITHIN 8" SHALL BE LL BE ME CTING W/ RAGM AF	LOOR SLAB T, AND FOR DE OF THE IVEWAY 24" OC SIBLE RD THE NG AT 45 WITHIN 6" OF DUND SHALL NOT ALL OF THE TOP PROVIDED ASURED ALLS	CLIENT: WALKER CUSTOM HOMES, LLC JOB TITLE: HKF127 SPEC JOB TITLE: HKF127 SPEC LOT127, HOOK FARMS LOT127, HOOK FARMS LOT127, HOOK FARMS LOT127, HOOK FARMS LEE'S SUMMIT, MISSOURI LEE'S SUMMIT, MISSOURI
PLACED W	LOCK OUTSIDE 3 C ALIGNING BLOCKING LT R SHALL BE ITHIN 12" OF OF WALL CEMENT: @ 24" O.C. RS @ 24" RS) AL BARS " WITH (2) FOR DRAIN ALL ON TOP DR RUN TILE TURN WALL			с (8	3" LEAR (TYP LEAR TYP.)		MIN. AND ÉM	R PER DRILLED MBEDDED TO WALL AM ENGINEER: DMH CHECKED BYDMH
SZ	RETURN WALL DETAIL 2.0 SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)							JOB NO. DRAWN BY: DMH DATE: 10-11-22 SHEET NUMBER CONSTRUCTION AS NOTED ON FLANS REV Development Services LEE'S SUMMET, MISSOU

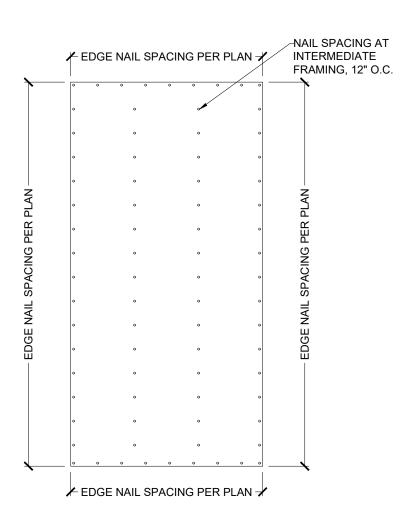




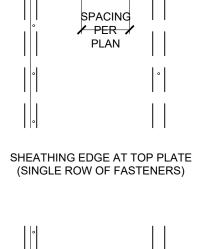
	MINIMUM PANEL LENGTH FOR DETAIL 1/S3.0 (INCHES)						
	WALL HEIGHT						
	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET		
SUPPORTING ROOF ONLY	16	16	16	18	20		
SUPPORTING ONE STORY AND ROOF	24	24	24	27	29		

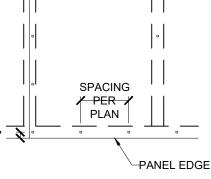
<u>3</u>"

TENSION STRAP F	REQUIRED FOR HEADER TO) JACK STUD FOR DETAILS	5 1/S3.0 AN
MAX GARAGE OPENING (FT.)	PONY WALL WALL HT. (FT.)	REQUIRED SIMPSON STRAP	MIN. STRA
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	



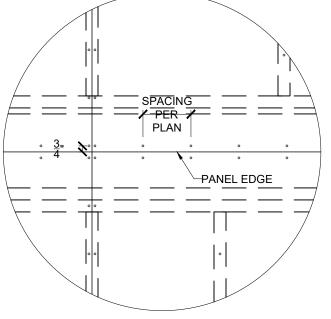




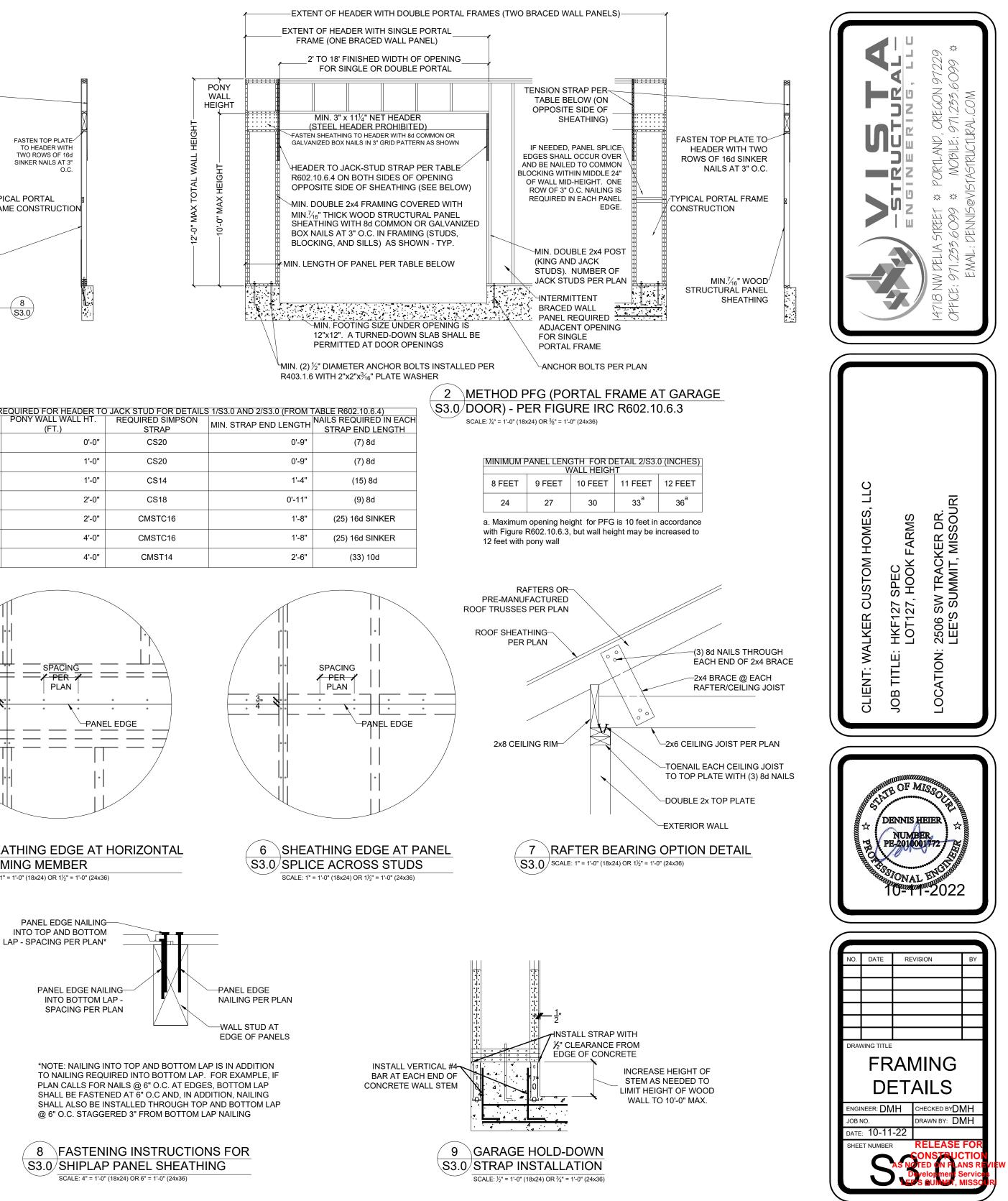


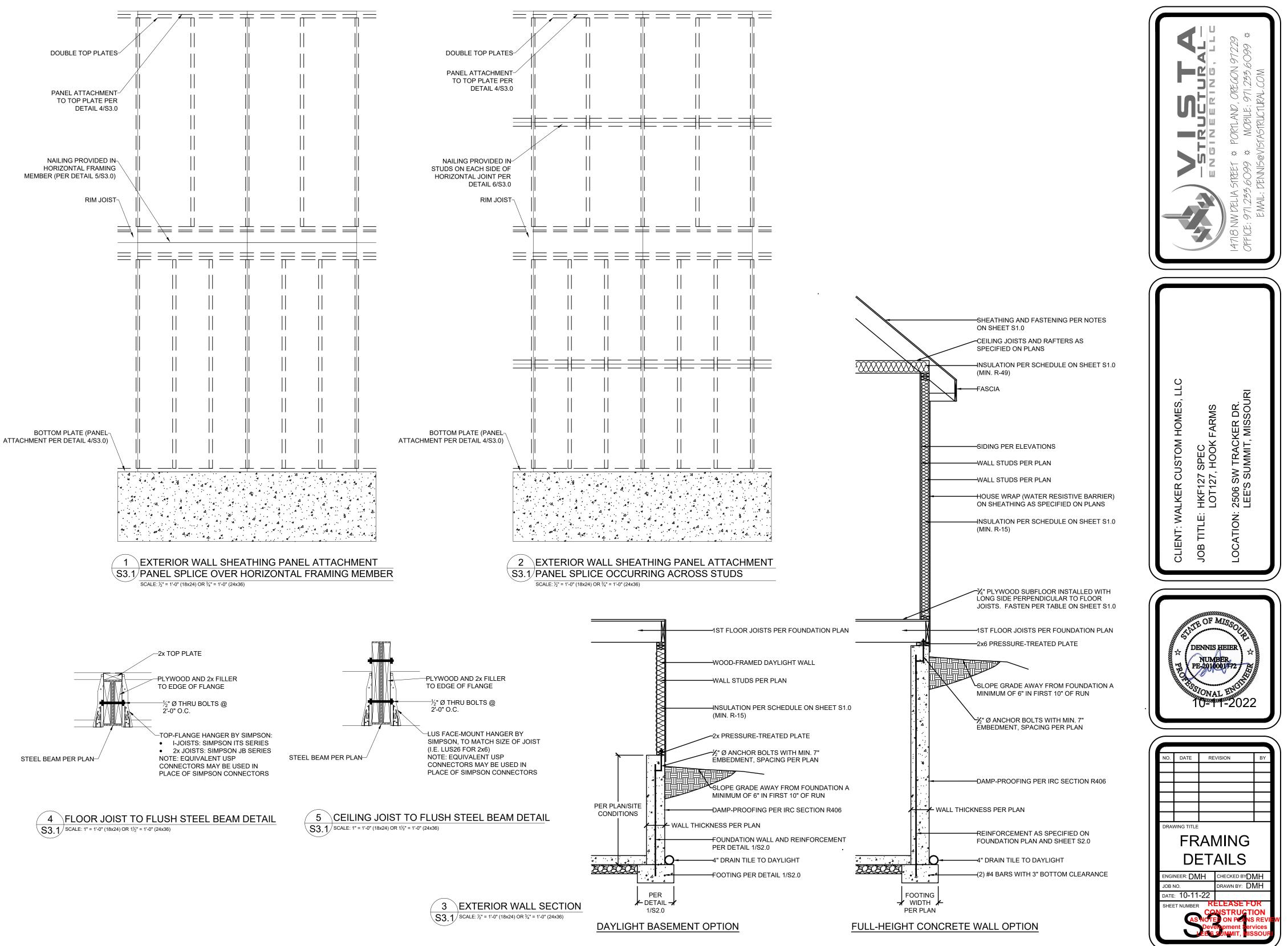
SHEATHING EDGE AT BOTTOM PLATE (SINGLE ROW OF FASTENERS)

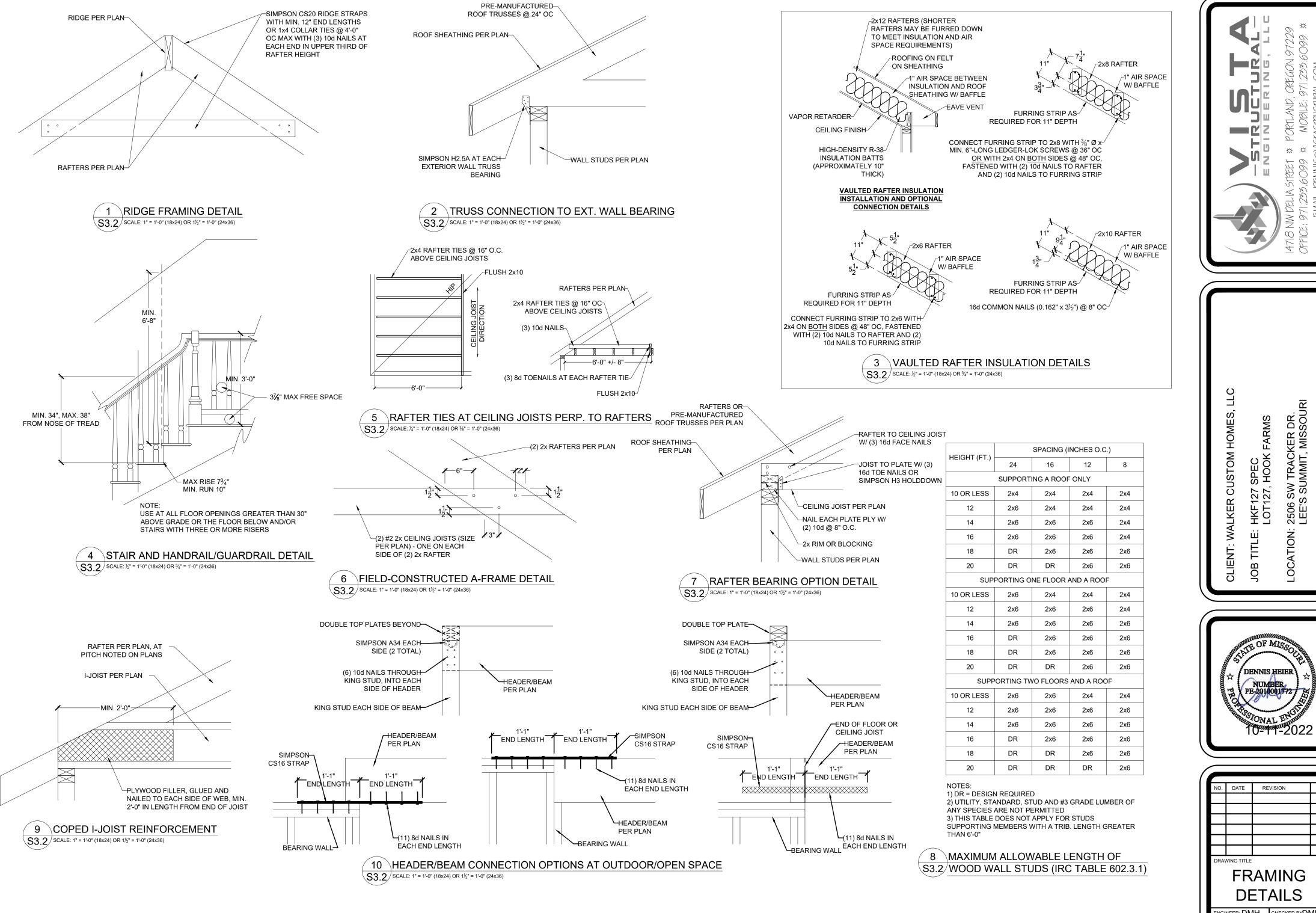




5 SHEATHING EDGE AT HORIZONTAL S3.0/FRAMING MEMBER SCALE: 1" = 1'-0" (18x24) OR 1¹/₂" = 1'-0" (24x36)



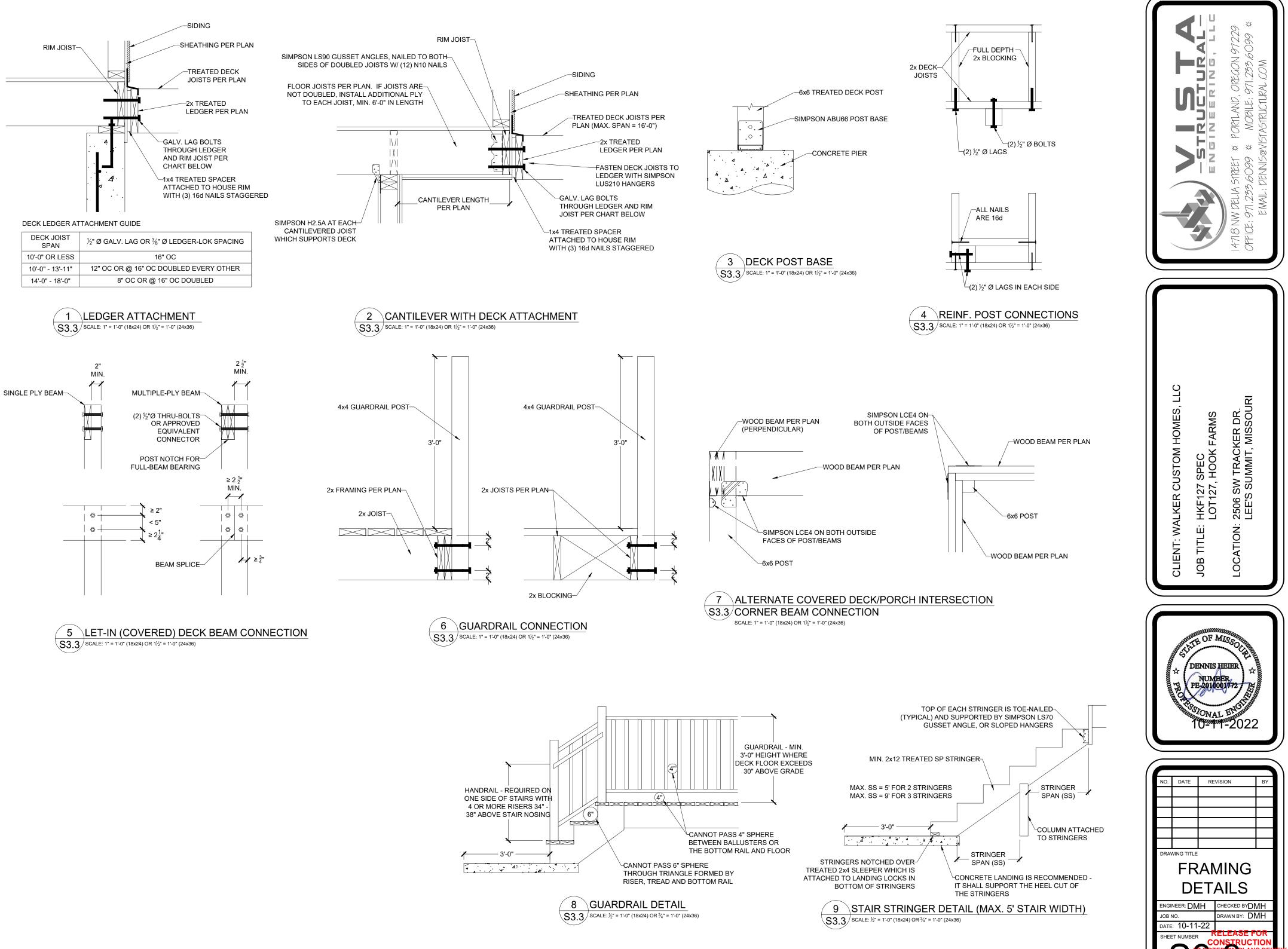


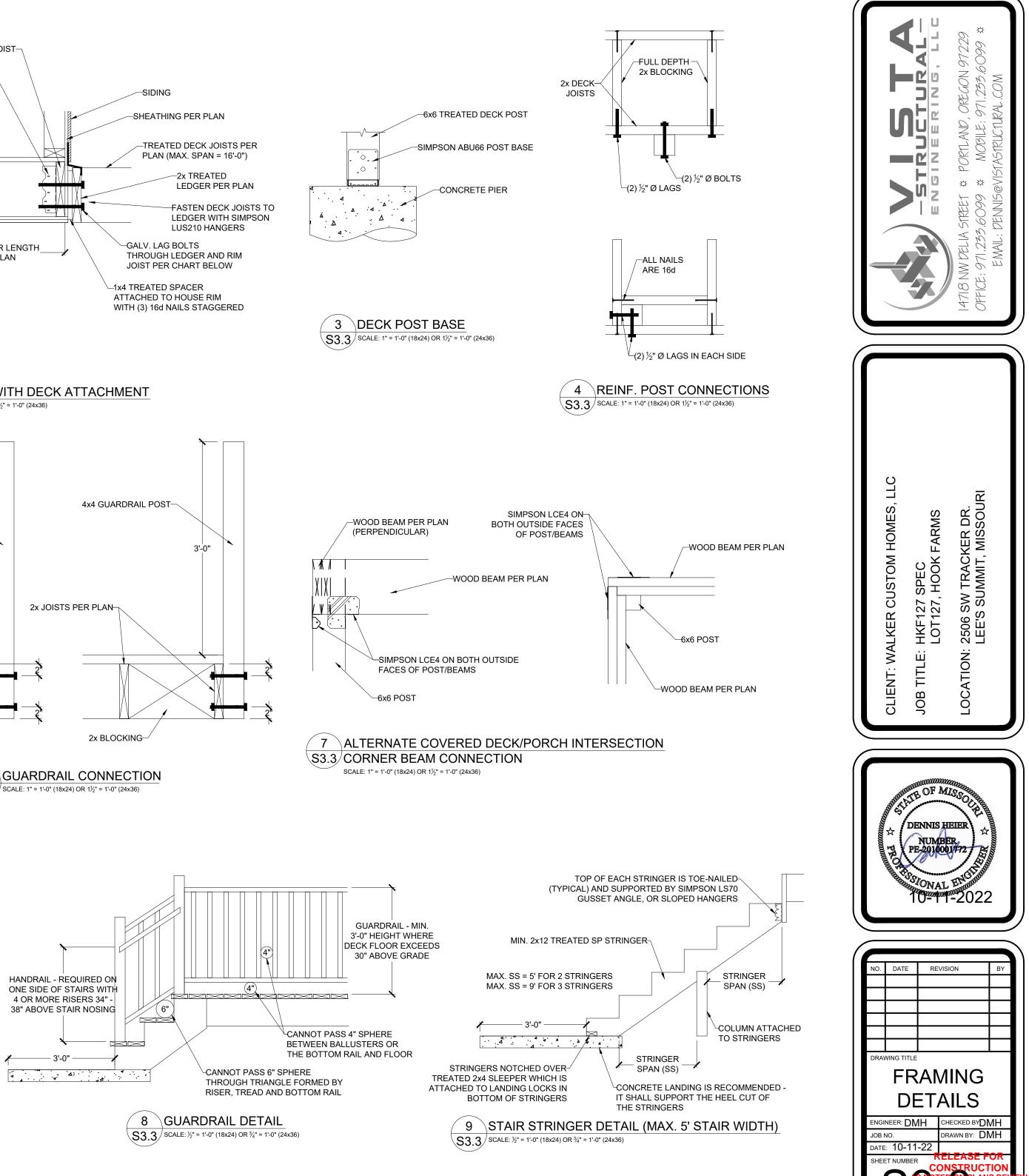


ENGINEER: DMH CHECKED BYDMH DRAWN BY: DMH IOB NO DATE: **10-11-22**

SHEET NUMBER RELEASE FOR

R





DROPPED BEAM

