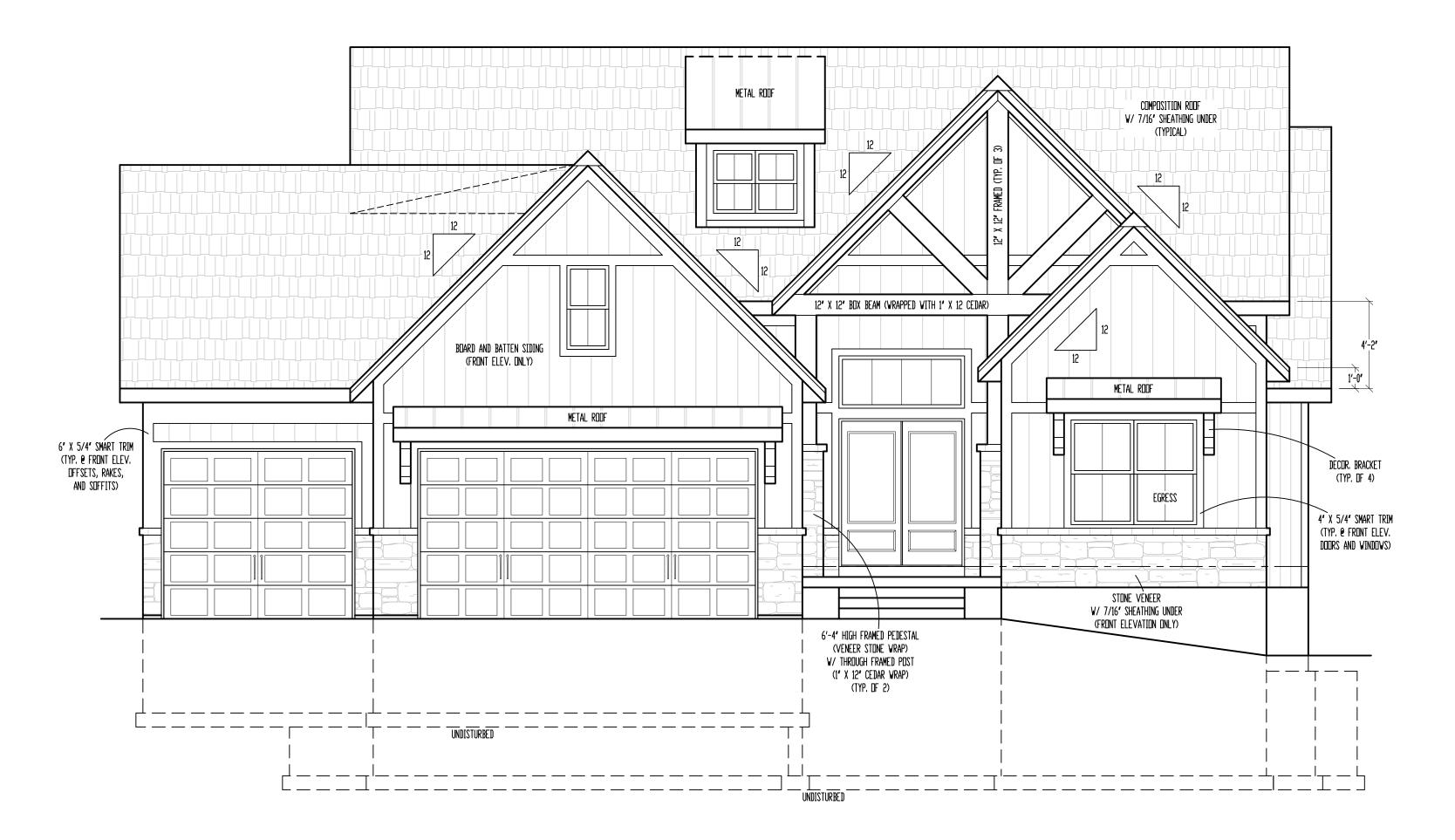
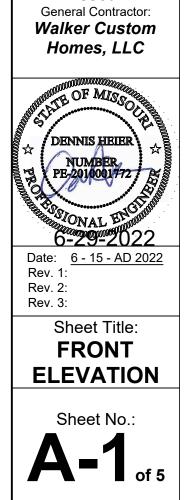
NOTE: GOVERNING CODES & GENERAL CONTRACTOR'S WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER THESE PLANS.



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

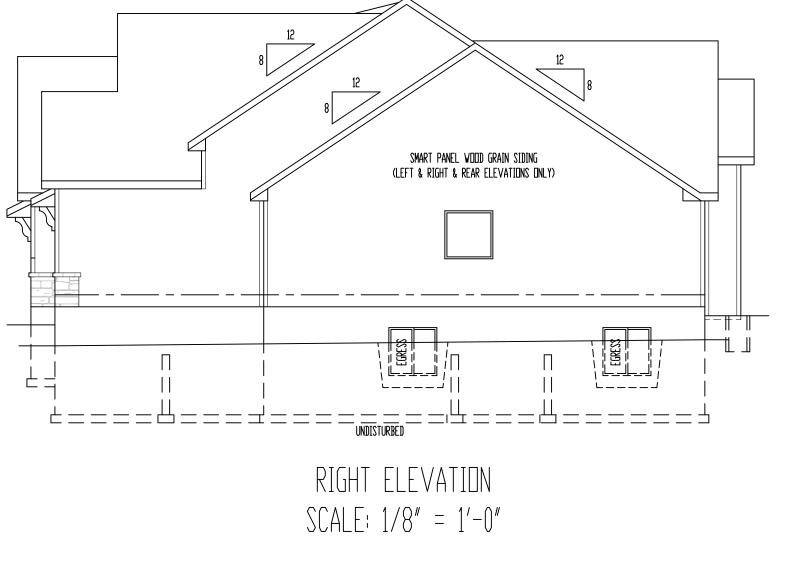


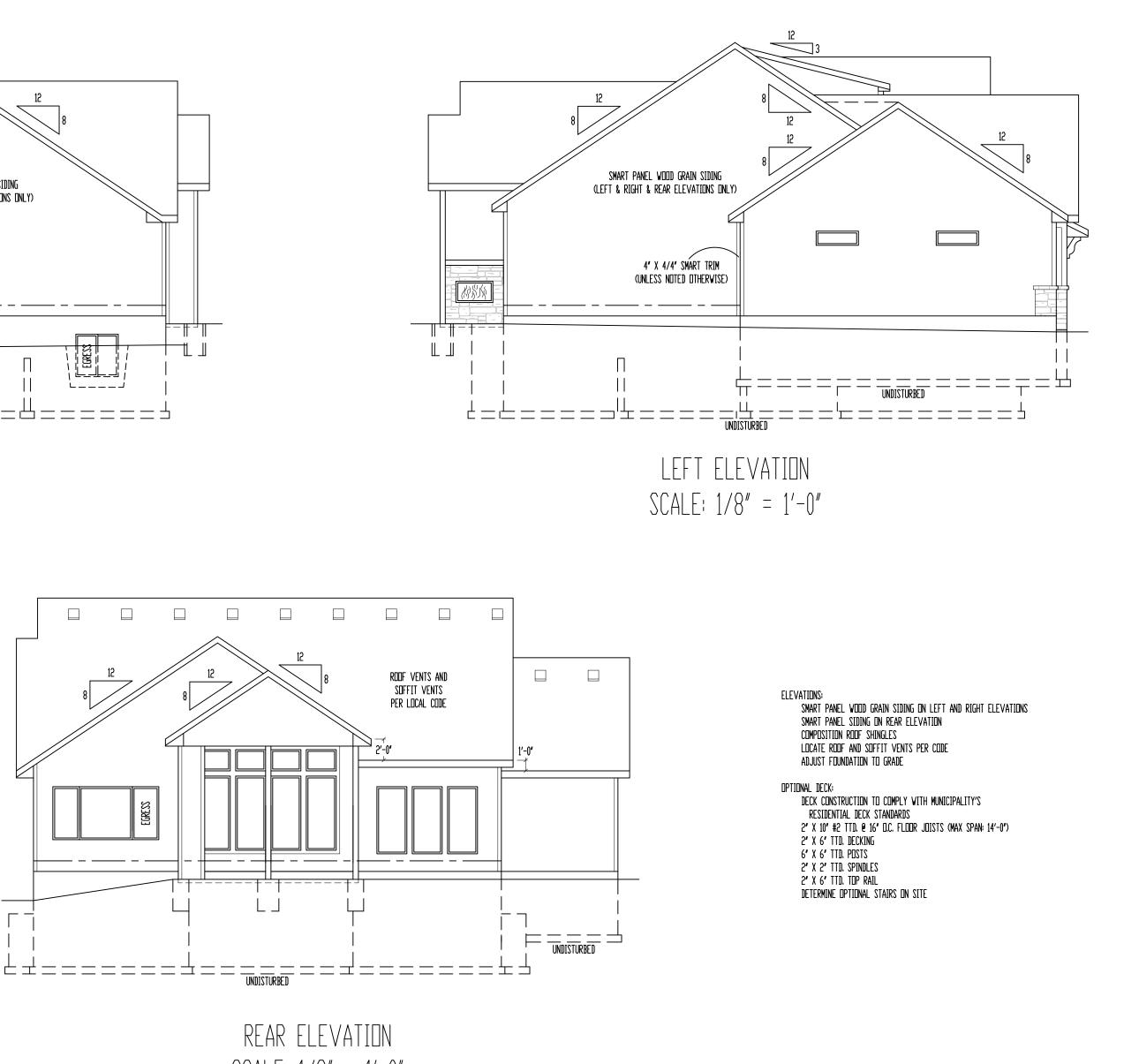
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HF(Site [gave his only begotten Son,	Care and effort have gone into the creation and design of this plan. However, the designer is not an architect or engineer and construction from these plans should not be
wing)79 Descr 79,	RESIDENTIAL DESIGN LLC	that whosoever believeth in him	undertaken without the assistance of a construction professional, architect or engineer. Because of the impossibility of any on site consultation and supervision, Viewpoint
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		(John 3:16).	architect to determine the suitability of these plans for your specific site and application.



Farms Street Address: 2107 SW Red Barn Ln., Lee's Summit,

Missouri



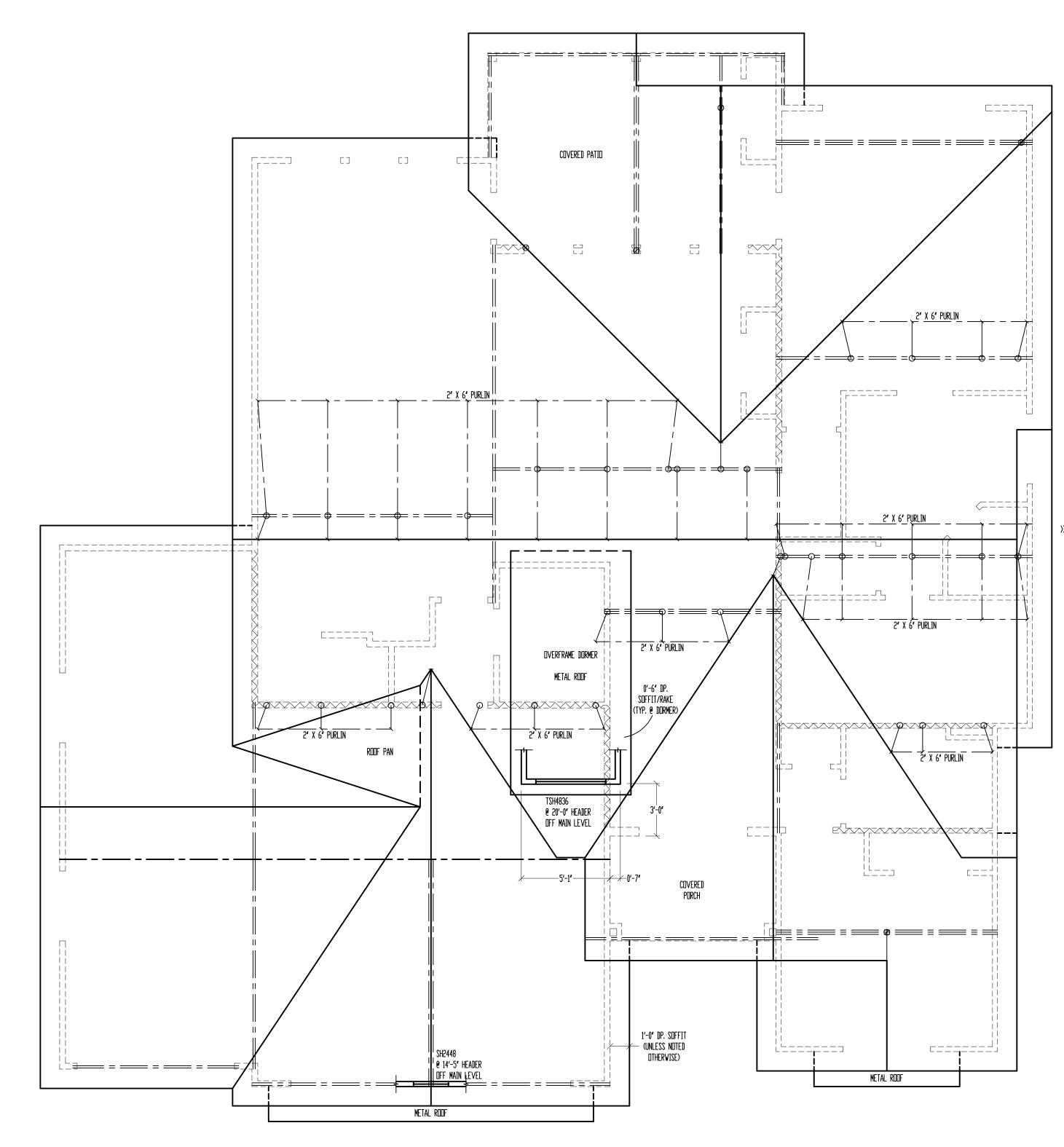


SCALE: 1/8'' = 1'-0''

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"For G	RESIDENTIAL DESIGN LLC Define		Office: (816)554-0400 Email: admin@viewpointdesign.net ever	
Re 210 Ln., W	Drawing HF079 Site Desci Lot 79, treat a Farm Street Ad 7 SW R Lee's Misso eneral Co alker C Homes, DENNIS H DENNIS H	Sr iptio Th t H sed Suri ouri LL ust LSSC EIER	Dec n: Ie 00/ Bai Bai nm tor: om	k rn

AND STONAL EN 6-29-2022 Date: <u>6 - 15 - AD 2022</u> Rev. 1: Rev. 2: Rev. 3: Sheet Title: SIDES & REAR **ELEVATIONS** Sheet No .:

> LEE'S SUMMIT, MISSOURI 07/19/2022



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.

ROOF NOTES: RDDF DESIGNED FOR LIGHT RDDF COVERING 30psf TOTAL LOAD [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	024″ D.C.	11′-7 ′	
$\rangle\rangle\rangle$	#2-2x6	@16″ D.C.	14'-2 '	///
	#2-2x8	024″ D.C.	14'-8'	
	#2-2x8	@16″ D.C.	17'-11 '	
	#2-2x10	024″ D.C.	17'-10 '	
	#2-2x10	0 16″ D.C.	21′-11 ′	

NDTE: CODE MINIMUM ALLOWS FOR A RAFTER DEFLECTION OF L/180 TOTAL LOAD

HIGHER PERFORMANCE (RECOMMENDED)

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	0 16″ D.C.	12'-9 '
#2-2x10	@24″ D.C.	14'-3 '
#2-2x10	@16″ D.C.	16'-3 '
	N = 1/240 + 1	

DEFLECTION = L/360 LIVE LUAD, L/240 TUTAL LUAD * VAULTS TO BE 2x10 DEPTH * RIDGE BOARDS ARE: (UNLESS OTHERWISE NOTED)

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

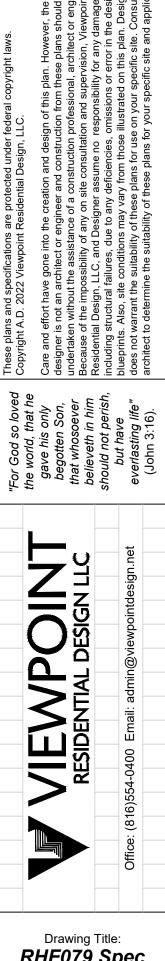
- #2- 2X10 DVER 10/12 PITCH * ALL HIPS & VALLEYS ARE: (UNLESS OTHERWISE NOTED)
- #2- 2X8 UP TO 10/12 PITCH - #2- 2X10 DVER 10/12 PITCH
- * PURLINS ARE 2X6 MIN.
- PURLIN STRUTS ARE AT 4'-0' D.C. - PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A
- 45 Degree angle with the horizontal - ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH 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 '
CEINSULT ARCH,/ENGR, >	30'-0"

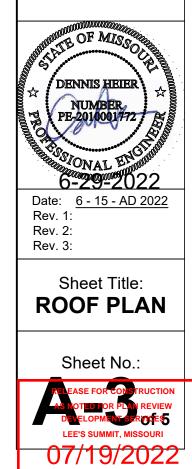
* RIDGE BRACES ARE SAME AS PURLIN BRACES-SPACING, SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE) * HIP & VALLEY BRACES ARE SAME AS PURLIN SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

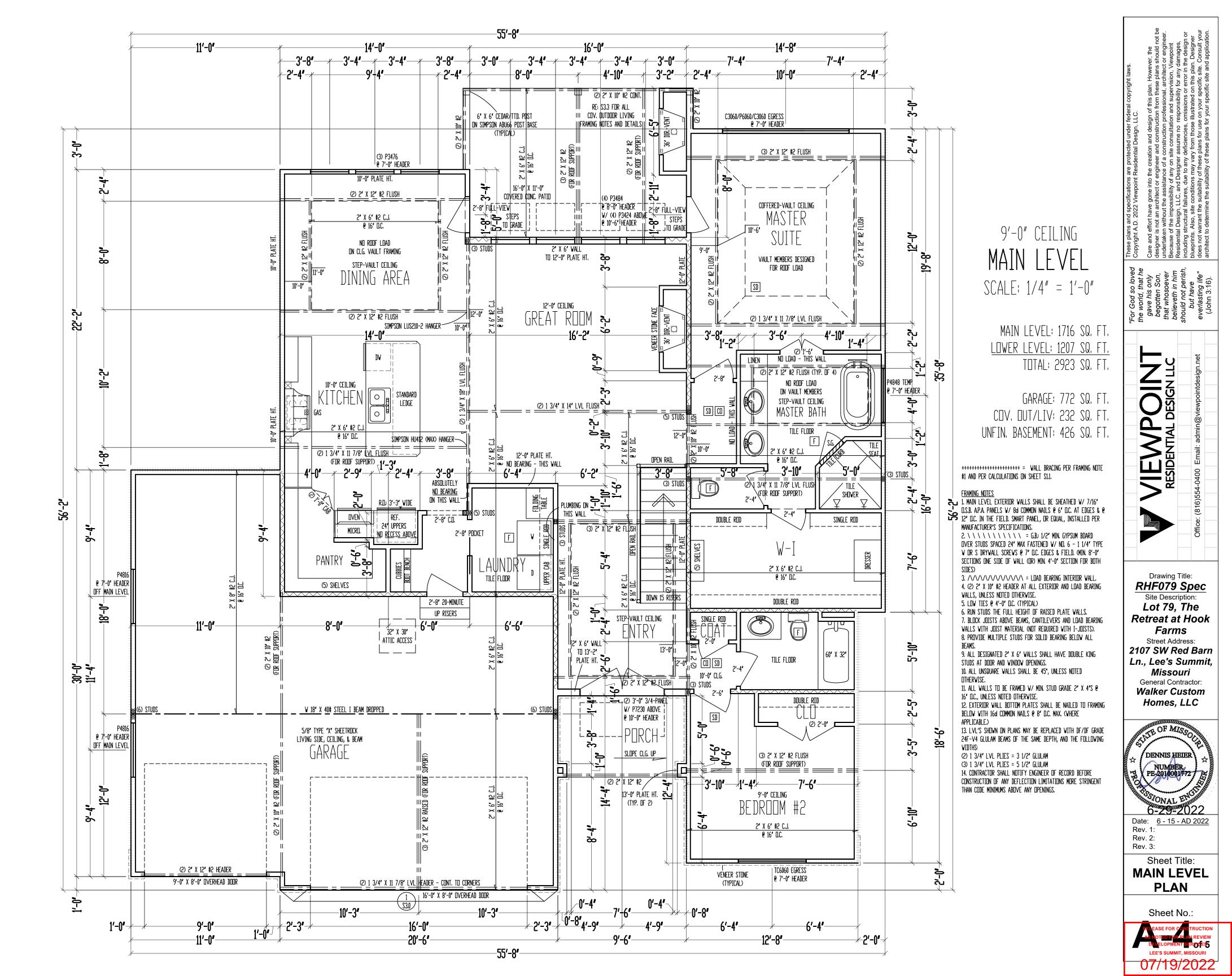
* VERTICAL BRACE IF DOT IS UNDER HIP OR VALLEY * SLASH IS TOP END OF BRACE (/), DOT IS BOTTOM OF BRACE (o). * ~~~~~ DENDITES BEARING WALL *----- DENDTES ROOF BRACE
 * _____ DENDITES PURLIN

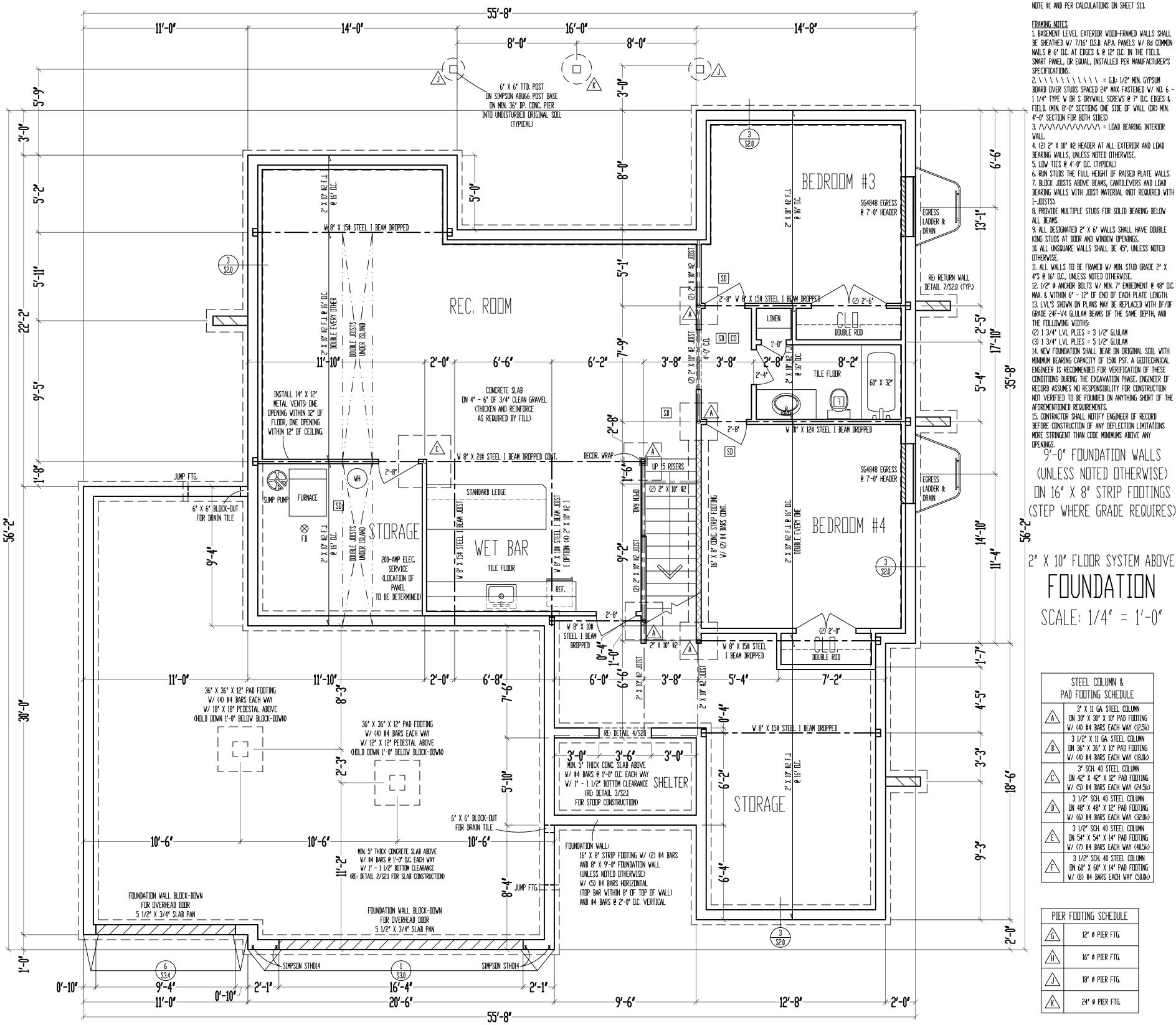
 * _____ DENDITES BEARING STRUCTURE



RHF079 Spec Site Description: Lot 79, The Retreat at Hook Farms Street Address: 2107 SW Red Barn Ln., Lee's Summit, Missouri General Contractor: Walker Custom Homes, LLC







Z U い い Δ Drawing Title: RHF079 Spec Site Description: Lot 79, The Retreat at Hook Farms Street Address: 2107 SW Red Barn Ln., Lee's Summit, Missouri General Contractor: Walker Custom Homes. LLC MONOR OF MISSOR DENNIS HEIER NUMBER PE-2010001772 STONAL E 6-29-2022 Date: 6 - 15 - AD 2022 Rev. 1:

Rev. 2:

Rev. 3:

Sheet Title:

FOUNDATION

PLAN

Sheet No.:

NOTED FOR PLAN REVIEW

LEE'S SUMMIT, MISSOUR 07/19/2022

God o e

	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 2 " 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 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 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

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
∦" 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
∛ 8" - 1"	8d COMMON (2 ¹ / ₂ " x 0.131") NAIL OR 8d DEFORMED (2 ¹ / ₂ " 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

- 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 $\frac{7}{16}$ 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 1½", 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

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 DISTRIB	UTED LIVE LC	ADS (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 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

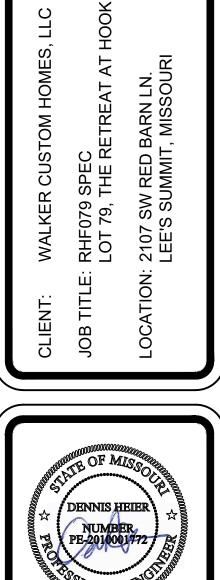
N1103.2.2 (R403.2.2) SEALING (MANDATORY), DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1 OF 2018 IRC EXCEPTIONS:

- 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.

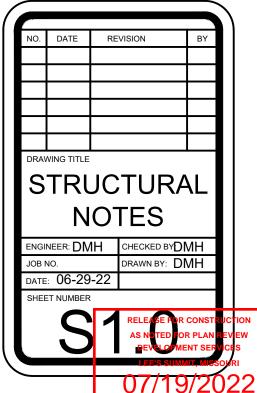
ME		N SYSTEM FAN EFFICA	
FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
RANGE HOODS	ANY	2.8	ANY
IN-LINE FAN	ANY	2.8	ANY
BATHROOM, UTILITY ROOM	10	1.4	90
BATHROOM, UTILITY ROOM	90	2.8	ANY



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OATION	T OF HOUSE:						CALCULATED VALUE	
DOF					DEAD LOAD (psf)	AREA (ft ²) 2703	WEIGHT (lbs.) 27030	-
		1	· · ·		10	2703	27030	
RST FLOOR						2703	27030	
		1		WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)	
RST FLOOR EXT. V	VALL DL			223.68	10	10	22368	
					DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)	
RST FLOOR INT. P.	ARTITION WALL DL				6	2703	16218	
	PRO	LECTED AREAS (WIND	DESIGN PER 115 MPH 2		E C AND MEAN ROOF HEIGHT <-			7
		T-TO-BACK	DESIGNTERTISMITTS	5-5200 (10 0001; EXI 0001	SIDE-TO		:	-
	AREA	LOAD			AREA	LOAD		-
SLOPED ROOF	515	4382		SLOPED ROOF	354	3009		
VERT. ROOF	364	4525	CUMULATIVE	VERT. ROOF	448	5565	CUMULATIVE	
1ST	612.37	7613	16595	1ST	617.87	7675	16325	
BSMT ^a	0	0	0	BSMT ^a	108	1529	9692	
			PRESSURE (PSF) - PER ASCE CH. 6				
	SLOPED ROOF	ZONE B		9.7	ZONE C	11.3	2a (FIG. 28.6-1, ASCE7)	_
	WALL/VERT. ROOF	ZONE A		14.2	ZONE D	7.7	11.134	_
	MEAN ROOF HT., h	termine tributary wind area	24					
FLOOR TRIBUTA	ARY WEIGHT						65244 65244	
(SITE GROUND M	OTION - %g - FROM AS	CE7 SEISMIC MAP)					12.0%	
(from ASCE7 Table	e 11.4-1)						1.6	
_s (= 2/3 * S _S * F _a)							0.128	
from ASCE7 Table	12.2-1)						6.5	
				SEISMIC SH		From ASCE7 (Eq. 12.8-1):	V /= 1 2 * S * W	//R) (lbs)
				SEISMIC SH		From ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * V 1542 1542	/ / R) (Ibs.)
				SEISMIC SH		From ASCE7 (Eq. 12.8-1):		/ R) (Ibs.)
T FLOOR SEMENT Sheathin	ng Location		ng Schedule	Faste	ning Schedule	Allowal	1542 1542 ble Shear (#/LF)	Code Reference
T FLOOR SEMENT	ng Location		ng Schedule d Plywood/OSB	Faste 1-1/2* 16ga. Staples w/ 1* pa For 24* stud apacing, 1	ning Schedule enetration@ 6" OC Edges, 6" OC Fi 2" OC Field For 16" stud specing	Allowa	1542 1542	Code Referen par IBC, Tabia 2308.3(1)
T FLOOR SEMENT Sheathin Exterior (•	7/16" APA Rais	•	Faste 1-1/2 [×] 16ga. Steples w/ 1° pa For 24° stud spacing, 1 1-1/2° 16ga. Staples w/ 1° pa For 24° stud spacing, 1	ning Schedule eneiration@ 6" OC Edges, 6" OC Fi 2" OC Field For 16" stud specing enetration@ 4" OC Edges, 6" OC Fi 2" OC Field For 15" stud specing	eld eld	1542 1542 ble Shear (#/LF)	Code Referen per IBC, Tabla 2308.3(1) per IBC, Tabla 2306.3(1)
T FLOOR SEMENT Sheathin Exterior (Exterior (<u>"Option #1)</u>	7/16" APA Rate 7/16" APA Rate	d Plywood/OSB	Faste 1-1/2* 16ga. Staples w/ 1* pa For 24* stud spacing, 1 1-1/2* 16ga. Staples w/ 1* pa For 24* stud spacing, 1 1-1/2* 16ga. Staples w/ 1* pa	ning Schedule eneiration:@ 6° OC Edges, 6° OC F 2° OC Field For 16° stud specing enetration:@ 4° OC Edges, 6° OC Fi	eld eld	1542 1542 ble Shear (#/LF) 155	Code Referen per IBC, Tabla 2306.3(1) per IBC, Tabla 2306.3(1)
T FLOOR SEMENT Sheathin Exterior (Exterior (Ostion #1) Ostion #2)	7/16" APA Rate 7/16" APA Rate 7/16" APA Rate 7/16" APA Rated Plywo sheathing, or 3/8" shipl	d Plywood/OSB d Plywood/OSB	Faste 1-1/2* 16ga. Steples w/ 1" pr For 24" stud spacing, 1 1-1/2" 16ga. Staples w/ 1" pr For 24" stud spacing, 1 1-1/2* 16ga. Staples w/ 1" pr For 24" stud spacing, 1 8d Common Nails w/ 1-3/8" pr Field for 7/16" APA-rated pb	ning Schedule enetration@ 6" OC Edges, 6" OC Fi 2" OC Field For 16" stud specing enetration@ 4" OC Edges, 6" OC Fi 2" OC Field For 15" stud specing enetration@ 3" OC Edges, 6" OC Fi	Allowal and	1542 1542 ble Shear (#/LF) 155 230	Code Referen per IBC, Tabla 2306.3(1) per IBC, Tabla 2306.3(1) per IBC, Tabla 2306.3(1)
T FLOOR SEMENT Sheathin Exterior (Exterior (Exterior (<u>Ortion 41)</u> Ortion <u>42)</u> Ortion <u>43)</u>	7/16" APA Rate 7/16" APA Rate 7/16" APA Rate 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter na 7/16" APA Rated Plywo sheathing, or 3/8" shipl	d Plywood/OS3 d Plywood/OS3 d Plywood/OS3 od/OSB or shiplap panel ap panel sheathing with il spacing	Faste 1-1/2" 16ga. Staples w/ 1" po For 24" stud apacing, 1 1-1/2" 16ga. Staples w/ 1" po For 24" stud spacing, 1 1-1/2" 16ga. Staples w/ 1" po For 24" stud spacing, 1 8d Common Nails w/ 1-3/8" p Field for 7/16" APA-rated ply OR @ 4" O.C. Edges, 12" O.0 8d Common Nails w/ 1-3/8" p Field for 7/16" APA-rated ply	ning Schedule eneiration @ 6" OC Edges, 6" OC Fi 2' OC Field For 16" stud spacing enetration @ 4" OC Edges, 6" OC Fi 2' OC Field For 16" stud spacing enetration @ 3" OC Edges, 6" OC Fi 2" OC Field For 16" stud spacing penetration @ 6" O.C. Edges, 12" O wood/OSB or shiplap panel sheath	Allowal eld eld .C. ing hing .C.	1542 1542 ble Shear (#/LF) 155 230 310	Code Referen par IBC, Tabla 2306.3(1)
T FLOOR SEMENT Sheathin Exterior (Exterior (Exterior (Option #1) Option #2 Option #3)	7/16" APA Rate 7/16" APA Rate 7/16" APA Rate 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter na 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter na 7/16" APA Rated Plywo	d Plywood/OS3 d Plywood/OS3 d Plywood/OS3 od/OSB or shiplap panel ap panel sheathing with il spacing od/OSB or shiplap panel ap panel sheathing with il spacing od/OSB or shiplap panel ap panel sheathing with louble studs at each panel	Faste 1-1/2" 16ga. Staples w/ 1" pr For 24" stud apacing, 1 1-1/2" 16ga. Staples w/ 1" pr For 24" stud apacing, 1 1-1/2" 16ga. Staples w/ 1" pr For 24" stud apacing, 1 8d Common Nails w/ 1-3/8" pr Field for 7/16" APA-rated pt OR @ 4" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" pr Field for 7/16" APA-rated pt OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" pr 8d Common Nails w/ 1-3/8" pr	ening Schedule eneination @ 6" OC Edges, 6" OC Fi 2' OC Field For 16" stud specing enetration @ 4" OC Edges, 6" OC Fi 2' OC Field For 16" stud specing enetration @ 6" O.C. Edges, 12" C wood/OSB or shiplap panel sheath C. Field for 3/8" shiplap panel sheath penetration @ 4" O.C. Edges, 12" C wood/OSB or shiplap panel sheath	Allowal Allowal and Allowal an	1542 1542 155 230 310 220	Code Referen per IBC, Table 2306.3(1) per IBC, Table 2306.3(1) per IBC, Table 2306.3(1) AF&PA SDPW Table 4.3A AF&PA SDPW
T FLOOR SEMENT Sheathin Exterior (Exterior (Exterior (Exterior (Option #1) Option #2 Option #3 Option #4)	7/16" APA Rate 7/16" APA Rate 7/16" APA Rate 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter na 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter na	d Plywood/OS3 d Plywood/OS3 d Plywood/OS3 od/OSB or shiplap panel lap panel sheathing with iil spacing od/OSB or shiplap panel lap panel sheathing with iil spacing od/OSB or shiplap panel lap panel sheathing with louble studs at each pane ge	Faste 1-1/2" 16ga. Staples w1 " pare For 24" stud spacing, 1 1-1/2" 16ga. Staples w/ 1" pare For 24" stud spacing, 1 1-1/2" 16ga. Staples w/ 1" pare For 24" stud spacing, 1 1-1/2" 16ga. Staples w/ 1" pare For 24" stud spacing, 1 8d Common Nails w/ 1-3/8" pare Field for 7/16" APA-rated ply OR @ 4" O.C. Edges, 12" O.0 8d Common Nails w/ 1-3/8" pare Field for 7/16" APA-rated ply OR @ 3" O.C. Edges, 12" O.0 8d Common Nails w/ 1-3/8" pare Staples w/ 1-3/8" pare	ming Schedule enetration @ 6" OC Edges, 6" OC Fi 2" OC Field For 16" stud spacing enetration @ 4" OC Edges, 6" OC Fi 2" OC Field For 15" stud spacing enetration @ 3" OC Edges, 6" OC Fi 2" OC Field For 16" stud spacing penetration @ 6" O.C. Edges, 12" C wood/OSB or shiplap panel sheath C. Field for 3/8" shiplap panel sheath	Allowal and	1542 1542 155 230 310 220 320	Code Referen par IIBC, Table 2306.3(1) par IIBC, Table 2306.3(1) par IIBC, Table 2306.3(1) AF&PA SDPV Table 4.3A AF&PA SDPV Table 4.3A AF&PA SDPV Table 4.3A
T FLOOR SEMENT Sheathin Exterior (Exterior (Exterior (Exterior (Exterior (In	Option #1) Option #2) Option #4) Option #5) Option #6)	7/16" APA Rate 7/16" APA Rate 7/16" APA Rate 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter na 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter nai 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter nail spacing and c ed 1/2" Gyps	d Plywood/OS3 d Plywood/OS3 d Plywood/OS3 od/OSB or shiplap panel lap panel sheathing with iil spacing od/OSB or shiplap panel lap panel sheathing with iil spacing od/OSB or shiplap panel lap panel sheathing with louble studs at each pane ge um Board	Faste 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented approximation of the state apacing. 1 1-1/2" 16ga. Staples w/ 1" presented approximation of the state apacing. 1 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 4" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C	ening Schedule eneiration @ 6" OC Edges, 6" OC Fi 2' OC Field For 16" stud spacing enetration @ 4" OC Edges, 6" OC Fi 2' OC Field For 16" stud spacing enetration @ 3" OC Edges, 6" OC Fi 2' OC Field For 16" stud spacing penetration @ 6" O.C. Edges, 12" C wood/OSB or shiplap panel sheath C. Field for 3/8" shiplap panel sheath C. Field	Allowa ald ald ald .c. .ing hing .c. .c.	1542 1542 1542 155 230 310 220 320 410	Code Referen per IBC, Table 2306.3(1) per IBC, Table 2306.3(1) per IBC, Table 2306.3(1) AF&PA SDPW Table 4.3A AF&PA SDPW Table 4.3A AF&PA SDPW Table 4.3A
r FLOOR SEMENT Sheathin Exterior Exterior Exterior Exterior In	Option #1) Option #2) Option #3) (Option #4) (Option #5) (Option #6) terior	7/16" APA Rate 7/16" APA Rate 7/16" APA Rate 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter na 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter nai 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter nail spacing and c ed 1/2" Gyps	d Plywood/OS3 d Plywood/OS3 d Plywood/OS3 od/OSB or shiplap panel lap panel sheathing with iil spacing od/OSB or shiplap panel lap panel sheathing with iil spacing od/OSB or shiplap panel panel sheathing with louble studs at each pane ge um Board ppe WB Steel X-Brace (or	Faste 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented approximation of the state apacing. 1 1-1/2" 16ga. Staples w/ 1" presented approximation of the state apacing. 1 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 4" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C	ening Schedule entration @ 6" OC Edges, 6" OC Fi 2" OC Field For 16" stud spacing enteration @ 4" OC Edges, 6" OC Fi 2" OC Field For 15" stud spacing enteration @ 3" OC Edges, 6" OC Fi 2" OC Field For 16" stud spacing penetration @ 6" O.C. Edges, 12" C wood/OSB or shiplap panel sheath C. Field for 3/8" shiplap panel sheath Penetration @ 3" O.C. Edges, 12" C Field rews @ 8" O.C. Edges, 12" O.C. Field @ intermediate studs (per manufac	Allowa ald ald ald .c. .ing hing .c. .c.	1542 1542 155 230 310 220 320 410 60	Code Referen per IIBC, Table 2306.3(1) per IIBC, Table 2306.3(1) per IIBC, Table 2306.3(1) AF&PA SDPV Table 4.3A AF&PA SDPV Table 4.3A AF&PA SDPV Table 4.3A
T FLOOR SEMENT Sheathin Exterior (Exterior (Exterior (Exterior (In In	Option #1) Option #2) Option #3) (Option #4) (Option #5) (Option #6) terior	7/16" APA Rate 7/16" APA Rate 7/16" APA Rate 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter na 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter nai 7/16" APA Rated Plywo sheathing, or 3/8" shipl tighter nai 1/2" Gyps 16 Ga. Simpson/USP Ty equ	d Plywood/OS3 d Plywood/OS3 d Plywood/OS3 od/OSB or shiplap panel lap panel sheathing with iil spacing od/OSB or shiplap panel lap panel sheathing with iil spacing od/OSB or shiplap panel panel sheathing with louble studs at each pane ge um Board ppe WB Steel X-Brace (or	Faste 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented apacing. 1 1-1/2" 16ga. Staples w/ 1" presented approximation of the state apacing. 1 1-1/2" 16ga. Staples w/ 1" presented approximation of the state apacing. 1 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 4" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C 8d Common Nails w/ 1-3/8" presented for 7/16" APA-rated pty OR @ 3" O.C. Edges, 12" O.C	ening Schedule entration @ 6" OC Edges, 6" OC Fi 2" OC Field For 16" stud spacing enteration @ 4" OC Edges, 6" OC Fi 2" OC Field For 15" stud spacing enteration @ 3" OC Edges, 6" OC Fi 2" OC Field For 16" stud spacing penetration @ 6" O.C. Edges, 12" C wood/OSB or shiplap panel sheath C. Field for 3/8" shiplap panel sheath Penetration @ 3" O.C. Edges, 12" C Field rews @ 8" O.C. Edges, 12" O.C. Field @ intermediate studs (per manufac	Allowa ald ald ald .c. .ing hing .c. .c.	1542 1542 155 230 310 220 320 410 60	Code Referen per IIBC, Table 2306.3(1) per IIBC, Table 2306.3(1) per IIBC, Table 2306.3(1) AF&PA SDPW Table 4.3A AF&PA SDPW Table 4.3A AF&PA SDPW Table 4.3A AF&PA SDPW Table 4.3A Per IBC, Table 2306.4.4

EXTERIOR SHEAT	ING OPTION FOR BASE	MENT WALLS	6		DEPTH OF 1ST STORY (FT.)	56.17	DEPTH OF 2ND STORY (FT.)	6		
				-	BACK WALL OF GARAGE (FT.)	20.5				
					GAR. WALL: 1=F-B, 2=S-S	2				
		I	EXTER	RIOR STRUCTURAL WALL I	LENGTHS (ft.) & RESISTANCES					
	SEISMIC				WIND					
	FRONT-TO-BACK RESISTANCE (lbs.) SIDE-TO-SIDE RESISTANCE (lbs.)		FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)				
1ST FLOOR	70	32900	25	11750	70	46060	25	16450		
BASEMENT	0	0	15	7050	0	0	15	9870		
ADDITIONAL RESISTANCE REQUIRED				Anchor Bolt Spacing (in.)		16d Nail Spacing req'd at bottom plate (in.)				
SEISMIC WIND			WIND		diameter (in.)	0.5	1st Floor F-B	1		
1ST FLOOR FRONT-TO-BACK		0	0		Shear value (per NDS)	944	1st Floor S-S	1		
1ST FLOOR SIDE-TO-SIDE		0	0	1	Spacing F-B (inches)	122.7				

BASEMENT FRONT-TO-BACK BASEMENT SIDE-TO-SIDE

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	
DAGENERIE OUDE TO OUDE	•						1/50	

spacing S-S (inches)

123.6

BASEMENT SIDE-TO-SIDE 0 0 **NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE), 2) SEE SHEET ST 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 OF LIFT ANALTSIS								
	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	225.68	-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**	3126.9839	-451.327824	3578.311724	-1.08	-0.36	-801	-3.6		
*ALONG PERIMETER	*ALONG PERIMETER TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)				-4.7	UPLIFT OK			
**INSIDE EXTERIOR V	VALLS	RESISTANCE DUE TO DEAD	WEIGHT & (3) 10d TOENAILS		251.6				

WIND LIPLIET ANALYSIS

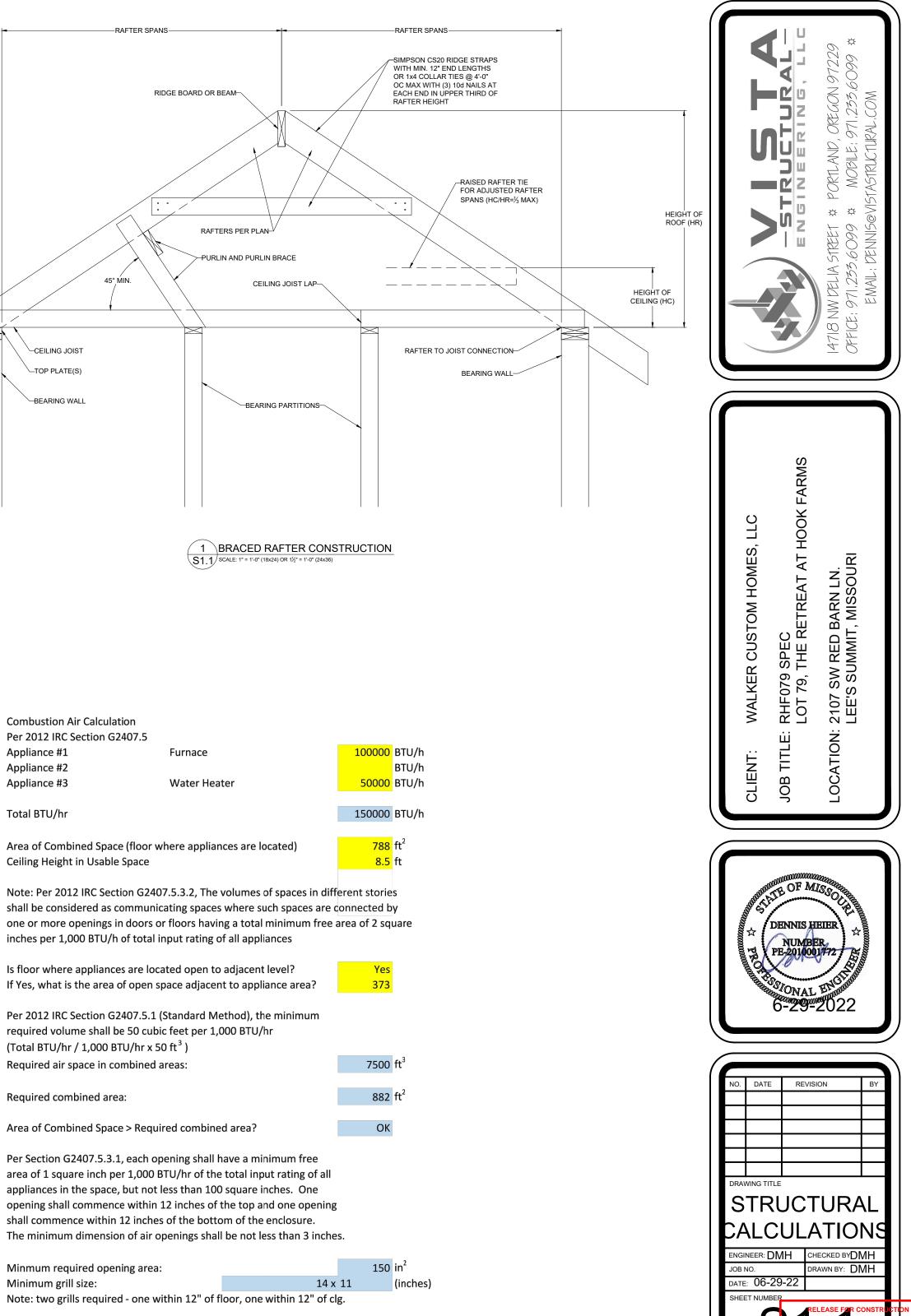
NOTE FOR CONSTRUCTION:

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

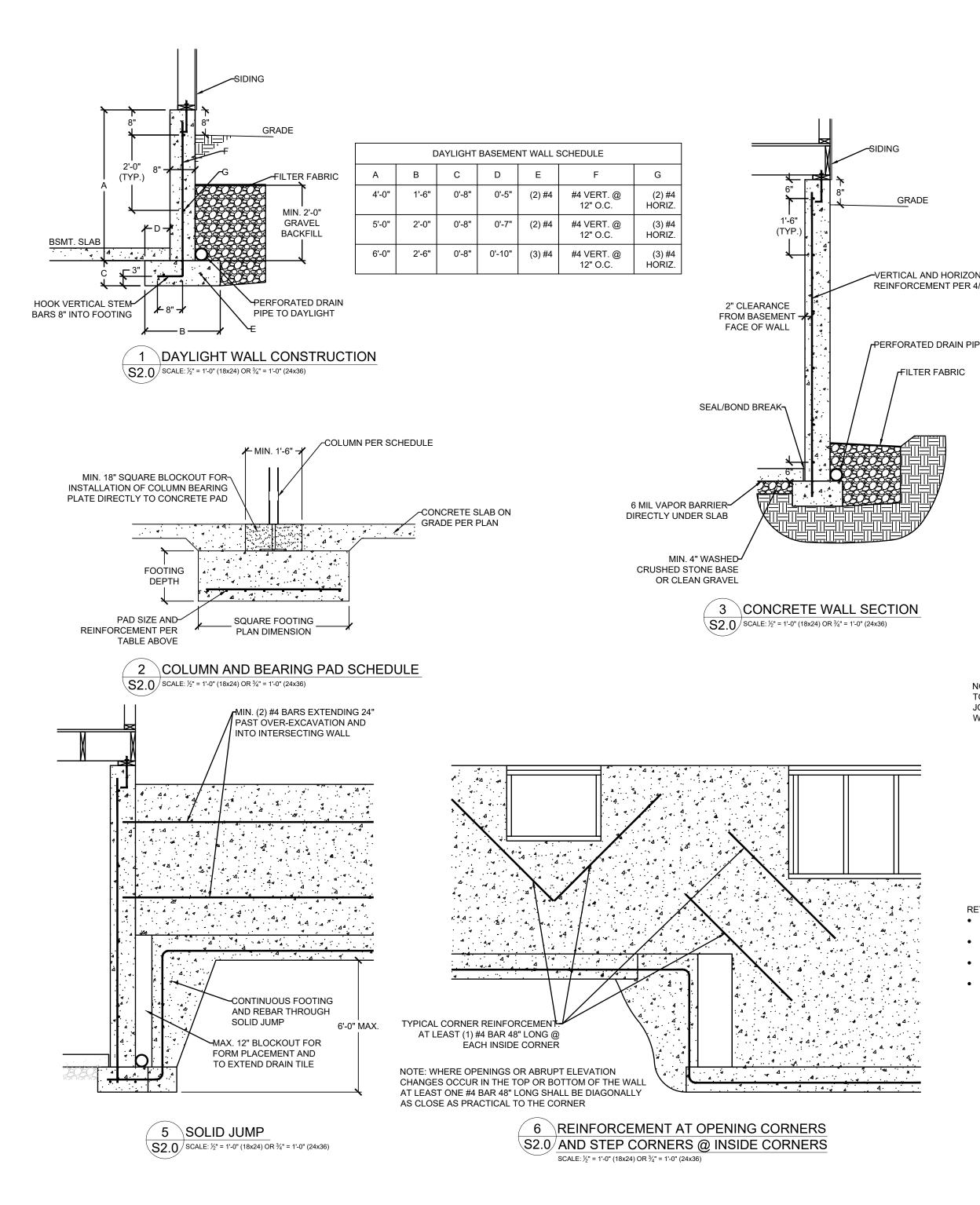
NOTE FOR DESIGN:

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



07/13/20/



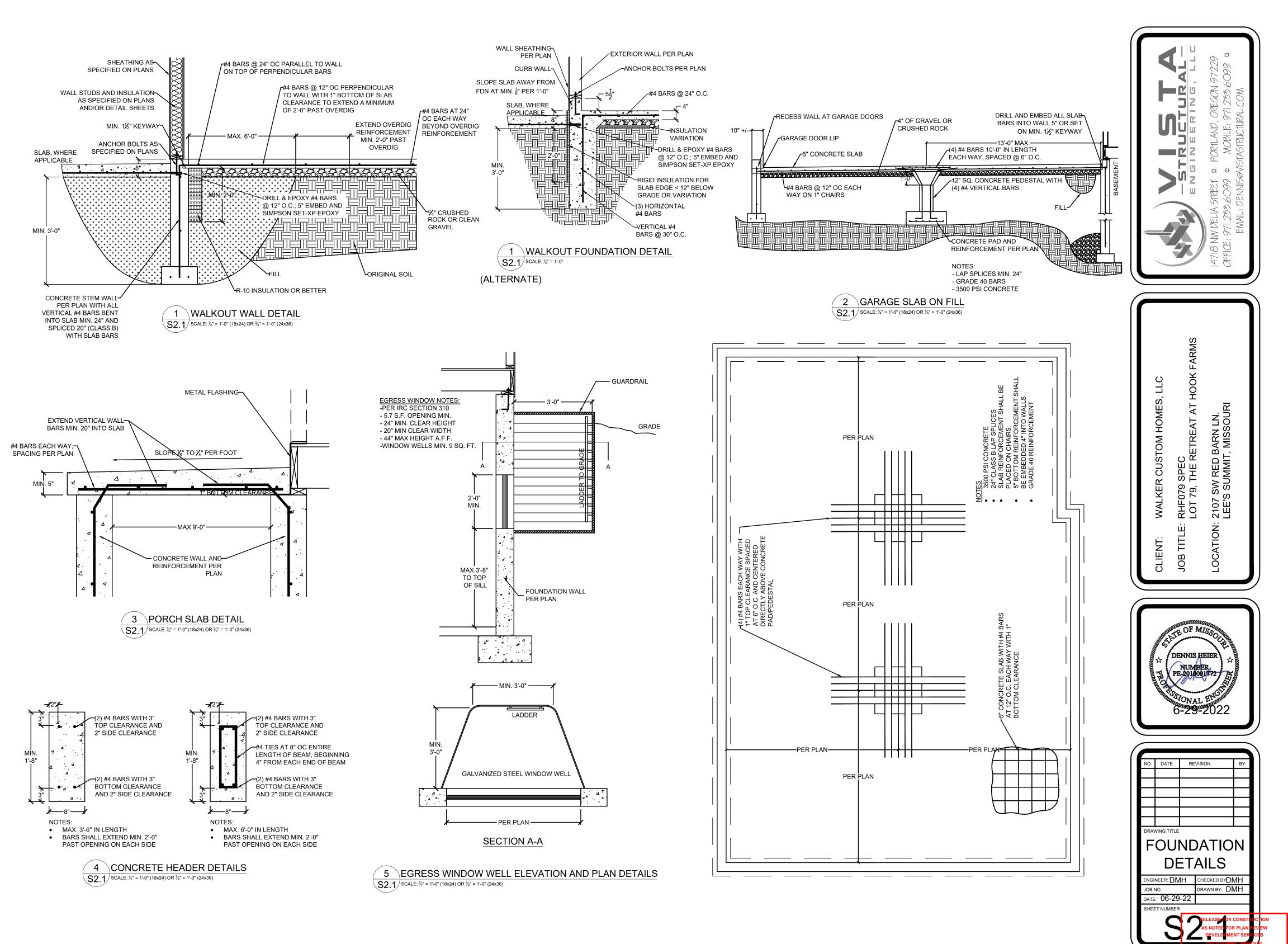
	VERTICAL REINFORCEMENT SPACIN	١G									
	CONCRETE STRENGTH/GRADE	8" T	HICK W	ALL	10"	THICK V	/ALL				229 9 #
	REINFORCEMENT (#4 BARS)	8'	9'	10'	8'	9'	10'			`∢ .	972 509
	3,000 PSI/ GRADE 40	24	24	16	24	24	18		11 H		0REGON 971,235,(AL,COM
	3,500 PSI/ GRADE 40	24	24	16	24	24	18				71.2 71.2
	3,000 PSI/ GRADE 60 3,500 PSI/ GRADE 60	24 24	24 24	16 16	24 24	24 24	18 18				10, (0 11, 0 11, 11, 11, 10, 10, 10, 10, 10, 10, 10,
	HORIZONTAL REINFORCEMENT - MI				24	24	10				DRHLAN MOBILI
	ONE BAR 12" FROM TOP OF WALL;	6-#4	7-#4	7-#4	6-#4	7-#4	7-#4			= <u>M</u> Z	PORTLAND MOBILE; STASTRUCTL
	MAX. SPACING 24" OC	0-#4	7-#4	7-#4	0-#4	7-#4	7-#4				\$ \$ \$ }}@ }}
	 FOOTNOTES: 1) WALL HEIGHT IS MEASURED FROM T 2) VERTICAL REINFORCEMENT FOR CO REINFORCEMENT SPACING 24" OC, REI WALL. OTHER WALLS SHALL HAVE VEF A) 8" WALL - MINIMUM 5" FROM TH B) 10" WALL - MINIMUM 6¾" FROM C) EXTEND BARS TO WITHIN 8" OI 3) REINFORCEMENT CLEARANCES: A) CONCRETE EXPOSED TO EART B) NOT EXPOSED TO WEATHER (I C) CONCRETE EXPOSED TO WEAT SLABS) - 1½" 4) HORIZONTAL REINFORCEMENT: A) ONE BAR SHALL BE PLACED W 	NCRETE W INFORCEMI RTICAL REI HE OUTSIDI I THE OUTS F THE TOP TH - MINIMU INTERIOR S THER (TOP	/ALLS TI ENT MA NFORCI E FACE SIDE FAC OF THE JM 1½" SIDE OF CLEAR	HAT ARE Y BE PLA EMENT A CE WALL WALLS) - RANCE IN	NOT FUL CED IN T S FOLLO ³ ⁄4" GARAGE	L HEIGH HE MIDE WS: AND DR	T, AND FOR LE OF THE				14718 NW PELIA STREET & PORTLAND, OR OFFICE: 971.235.6099 & MOBILE: 971 EMALL: DENNIS@VISTASTRUCTURAL
ONTAL R 4/S2.0	A) ONE BAR SHALL BE PLACED W B) OTHER BARS SHALL BE EQUAL C) HORIZONTAL BARS SHOULD BI (INTERIOR) AND BEHIND TH INSIDE)	LY SPACE	D WITH E TO T⊦	SPACING	NOT TO	EXCEED	SIBLE				
	D) SUPPLEMENTAL REINFORCEM DEGREE ANGLE AT CORNEL							=			
PIPE	THE EDGE OF INSIDE CORN 5) REINFORCEMENT SHALL BE LAPPED	IERS.								AS	
	6) AT MASONRY LEDGES THE MINIMUM										
	EXCEED A DEPTH OF MORE THAN THICKNESSES LESS THAN 4" PRC	V 24" BELO	W THE T	FOP OF T	HE WALL	. FOR W	ALL			Ц Ц	
	OF THE WALL. 7) STRAIGHT WALLS MORE THAN 5' TAL								LLC	00	
	WITH EXTERIOR BRACED R USING INSIDE THE SHORTE	ETURN WA	LLS. W	ALL LENC	STH SHA	L BE ME	ASURED		Ś	н	R
	8) WALL SHALL NOT BE BACKFILLED) UNTIL FL(DOR SY	STEM AN	D DIAPHI	ragm af	RE IN PLACE		DMB	A L	N. OUF
NOTE: WHERE FLOOR	4 FOUNDATION WALL S2.0 NO SCALE	REINF	ORCE	EMENT	TABL	<u>.</u>			CLIENT: WALKER CUSTOM HOMES,	JOB TITLE: RHF079 SPEC LOT 79, THE RETREAT AT HOOK FAR	LOCATION: 2107 SW RED BARN LN. LEE'S SUMMIT, MISSOUI
TO FDN WALL, SOLID E JOIST SPACES @ 36" C	BLOCK OUTSIDE 3 DC ALIGNING BLOCKING										
WITH THE ANCHOR BC											00000-
M M						-9	AB PER PLAN	N	HAR OF	DUCODODODODODODODODODODODODODODODODODODO	IS SOLUTION
							APPLICABLE			DENNIS H	EIER +
PLACED V		GRADE			/	∕ ┟──₽Е₽			7 PT	NUMBE PE-201000	IR 1172 - Ale
									John Market		The second second
		V		44	· · · △	: :.			Ann	SSIONAL 6-29-	EPIConner
					•	, 	⊿ [0-29-	2022
						. 	·⊿	PER PLAN			
RETURN WALL REINFOR • VERTICAL #4 BARS				MIN.	1 <u>1</u> 2"		• 4 •				
(MINIMUM 2 BARS)HORIZONTAL #4 BA		· · · · · · · · · · · · · · · · · · ·		3" CLE	AR (TYP				NO. DAT	E REVISI	ION BY
O.C. (MINIMUM 3 BAEXTEND HORIZONT	AL BARS							-REBAR PER		\pm	
 MIN. 24" INTO WALL FOOTING MIN. 16"x8 					3" EAR-	~ ~		PLAN, DRILLED AND EMBEDDED	┤┠╌┼─	_	
#4 BARS					YP.)		- 1½"	5" INTO WALL			
		₹.•• • • •				00			DRAWING T	ITLE	I
TILE THROUGH W OF FOOTING (AROUND THE RE	OR RUN TILE	▲		8 S2.0		-	E GRADE		FOI	JND	ATION
		· 4 ·. ?			/				∎ ⊏	DETA	ILS
		.: 44.4									

7 RETURN WALL DETAIL S2.0 SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36) DATE: 06-29-22 SHEET NUMBER SPECIAL REVIEW SEVEROPMENT SERVICES LINE SUMMIT, MISSOURI 07/19/2022

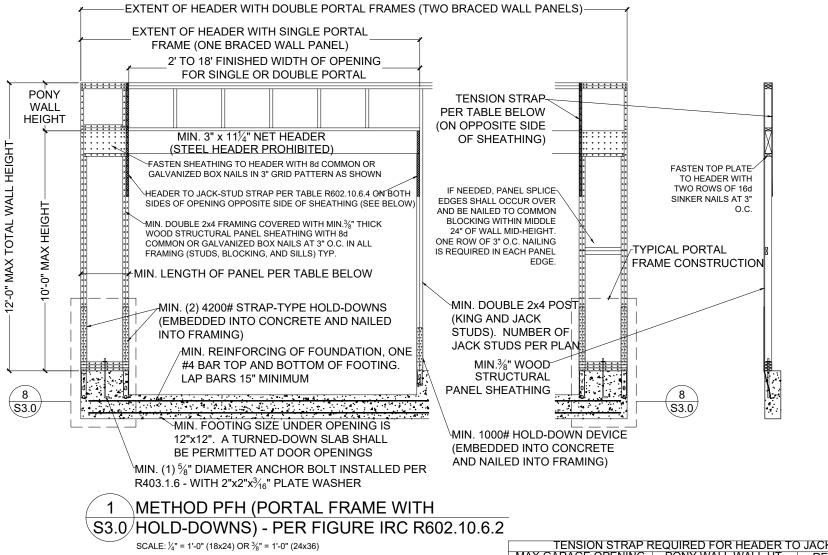
DRAWN BY: DMH

ENGINEER: DMH CHECKED BYDMH

JOB NO.



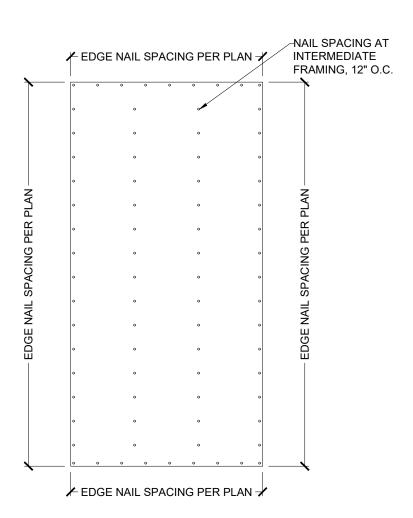
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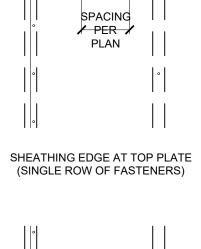
	MINIMUM PANEL LENGTH FOR DETAIL 1/S3.0 (INCHES)						
		W	ALL HEIG	HT			
	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET		
SUPPORTING ROOF ONLY	16	16	16	18	20		
SUPPORTING ONE STORY AND ROOF	24	24	24	27	29		

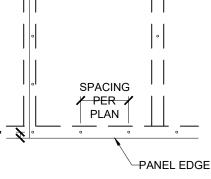
<u>3</u>"

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	



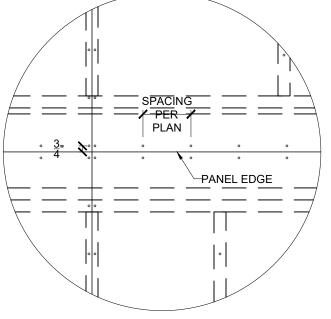




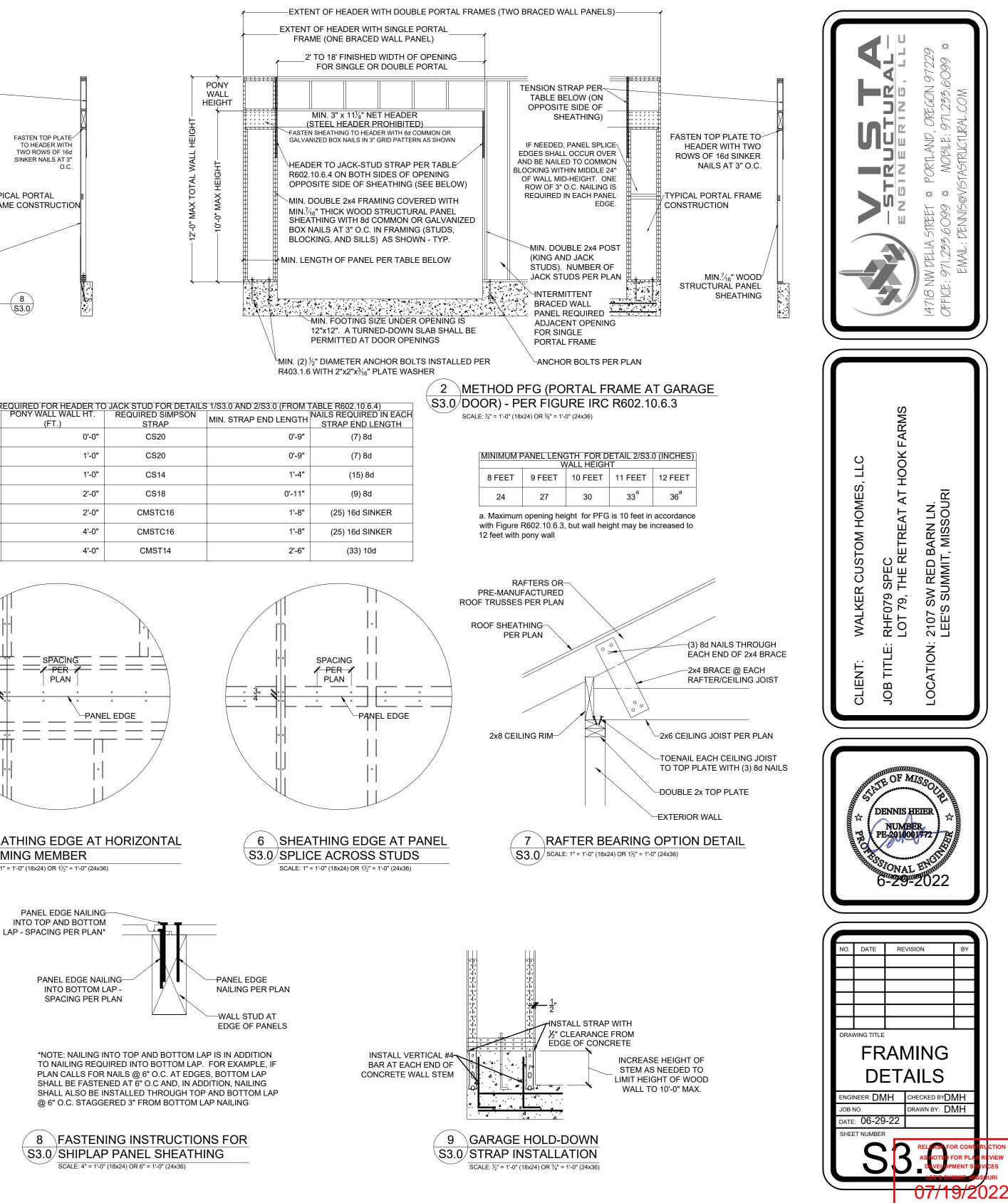


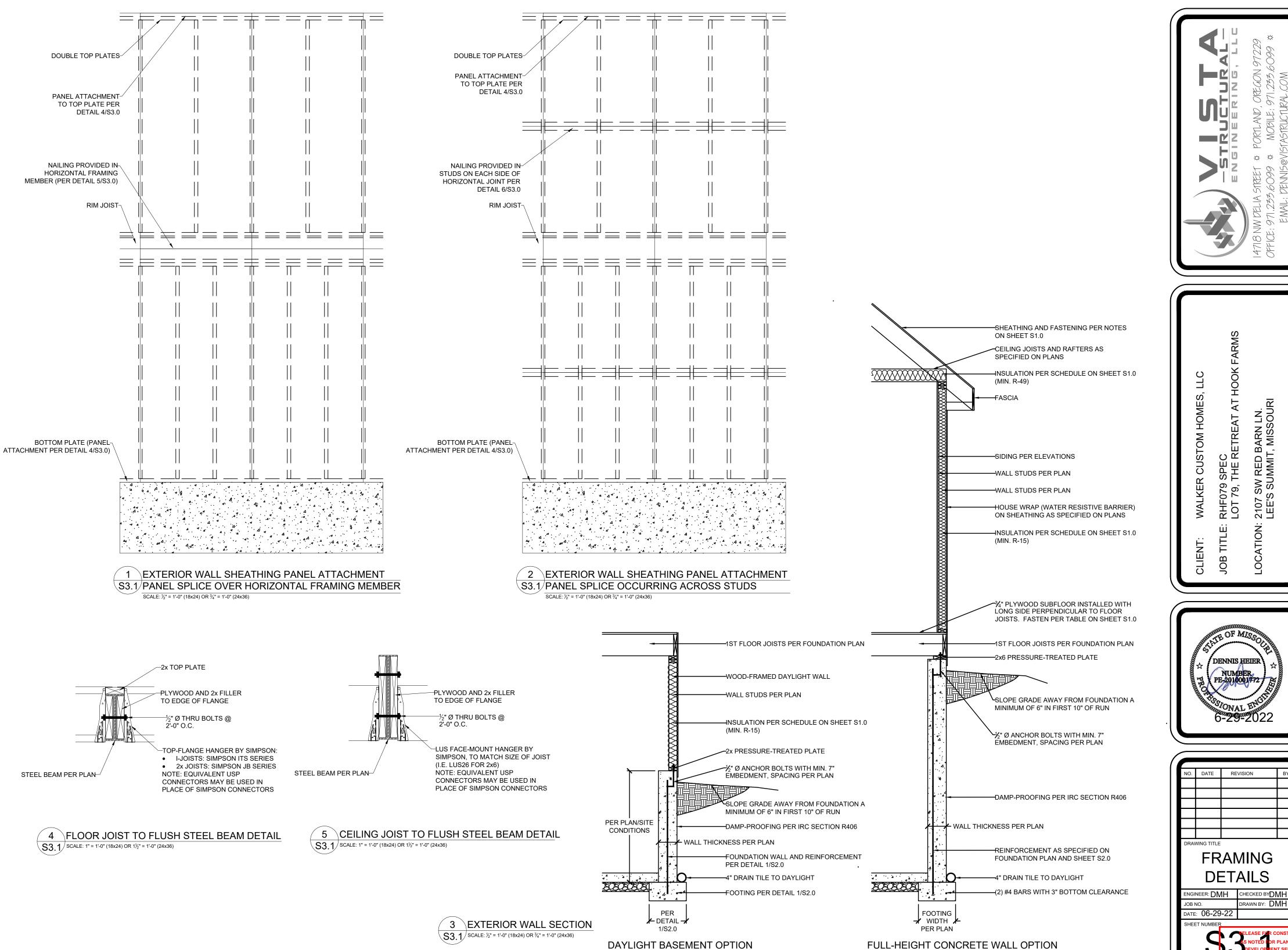
SHEATHING EDGE AT BOTTOM PLATE (SINGLE ROW OF FASTENERS)





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





FULL-HEIGHT CONCRETE WALL OPTION

07/19/2022

DRAWN BY: DMH

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SW RED BARN LN. SUMMIT, MISSOU

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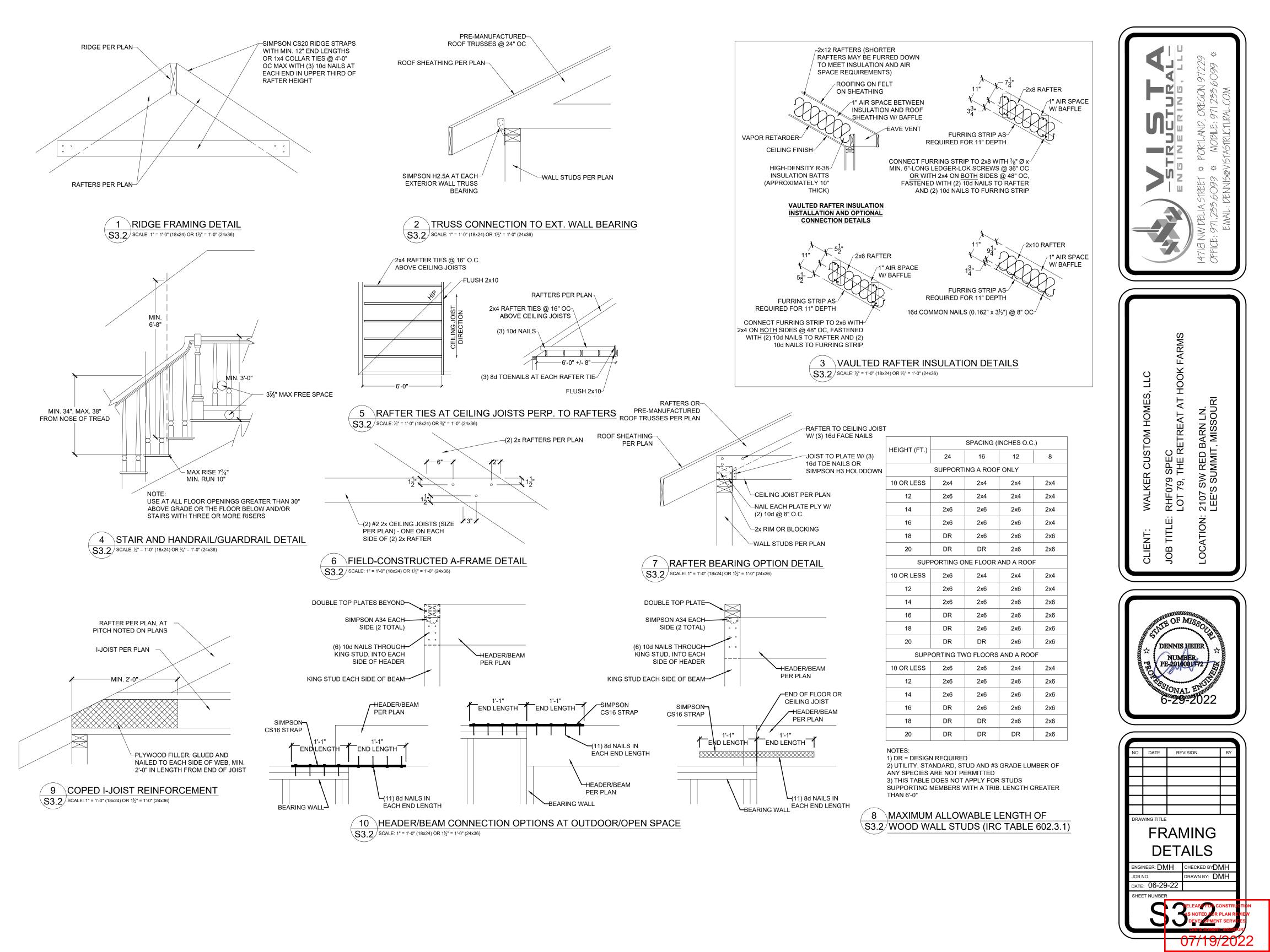
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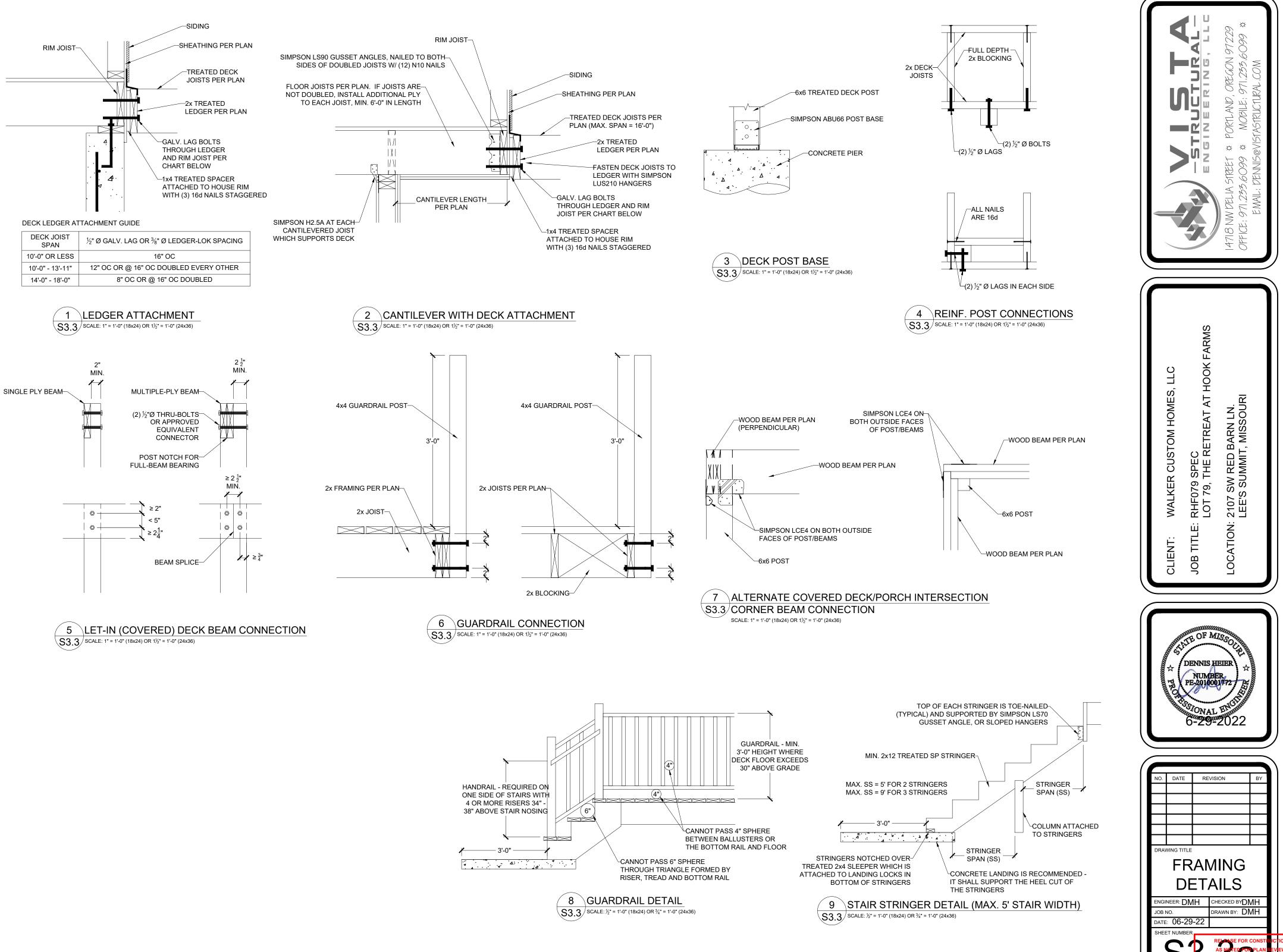
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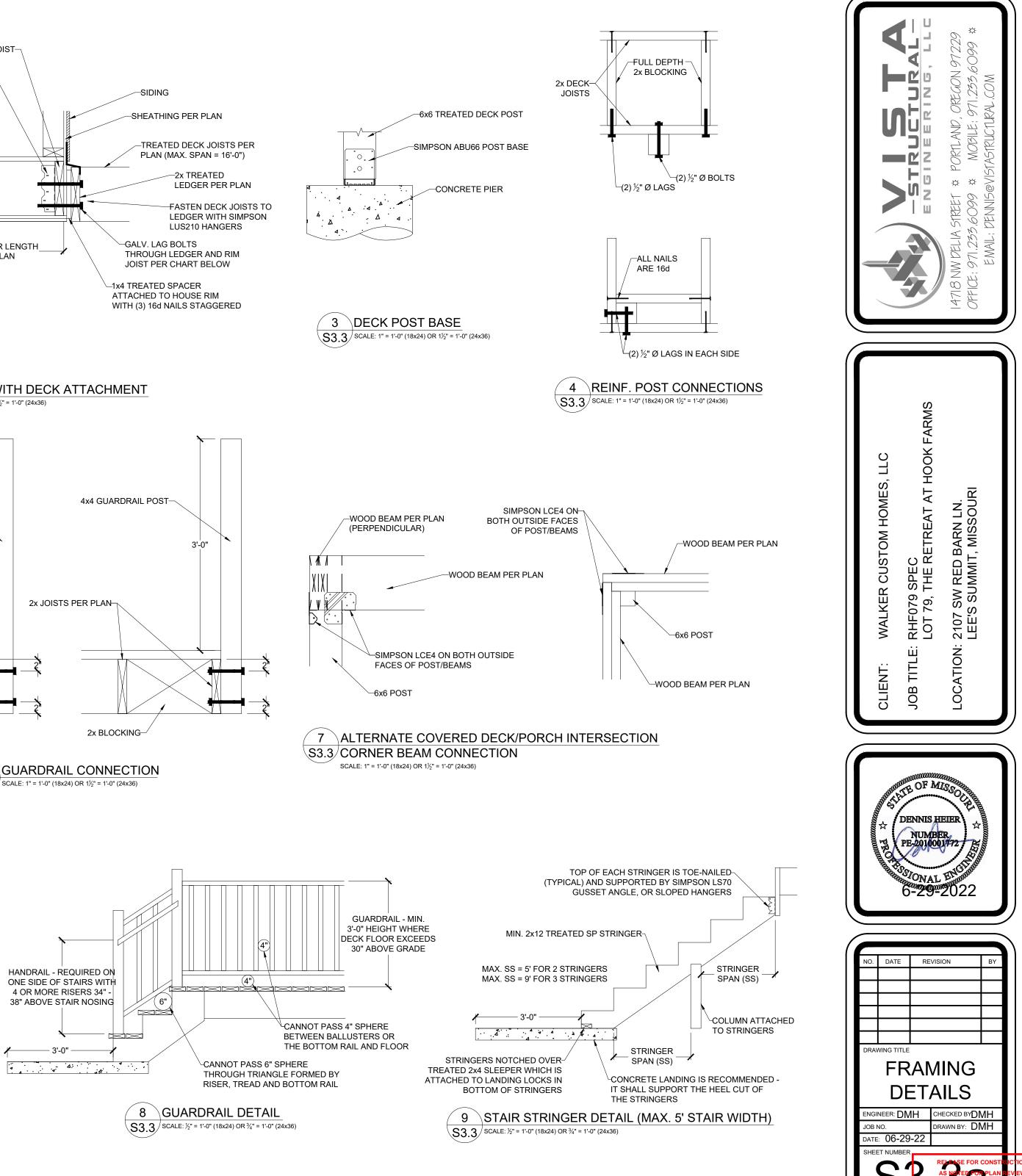
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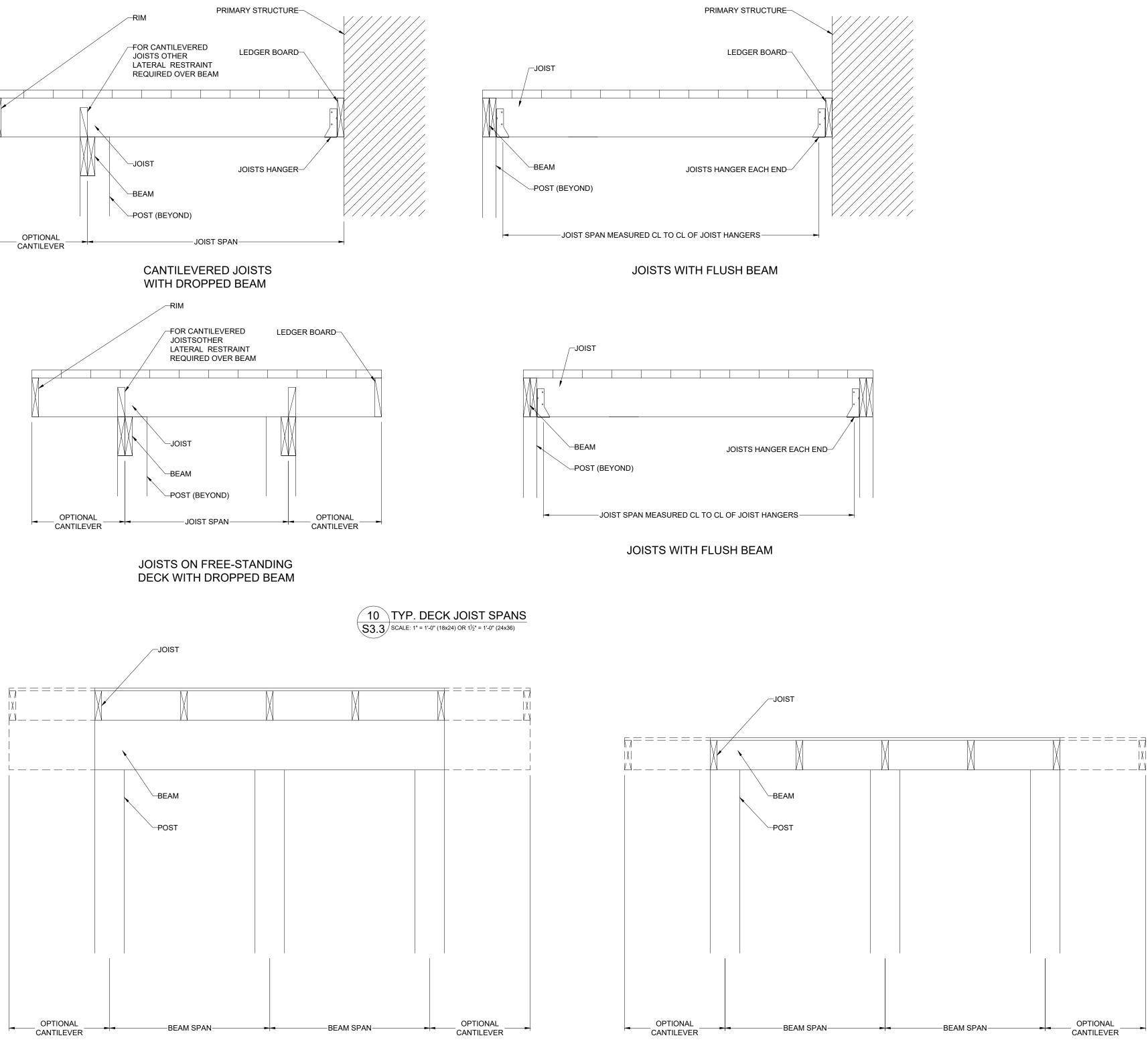
A A







DROPPED BEAM



Þ 7229 99 * 6 GON ם 🎦 🗉 AR MAR Ē AND ٦lu POR1L, \geq U ¢ ¢ *77 77* ш FARMS НООК C WALKER CUSTOM HOMES, LL RHF079 SPEC LOT 79, THE RETREAT AT 2107 SW RED BARN LN. LEE'S SUMMIT, MISSOURI JOB TITLE: LOCATION: CLIENT: DE OF MISS DENNIS HEIER PE-2010001772 6-29-2022 DATE REVISION BY RAWING TITLE FRAMING DETAILS ENGINEER: DMH CHECKED BYDMH DRAWN BY: DMH JOB NO. DATE: 06-29-22 IEET NUMB SB

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