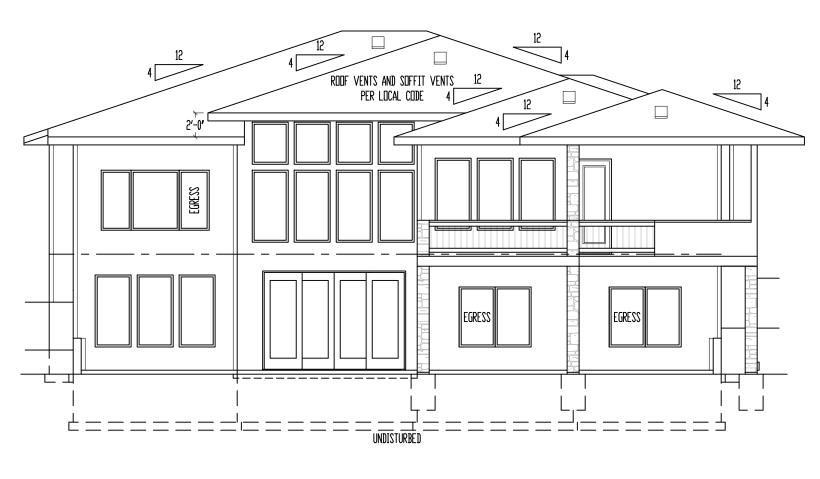
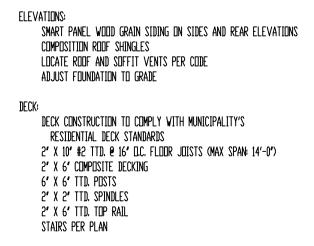


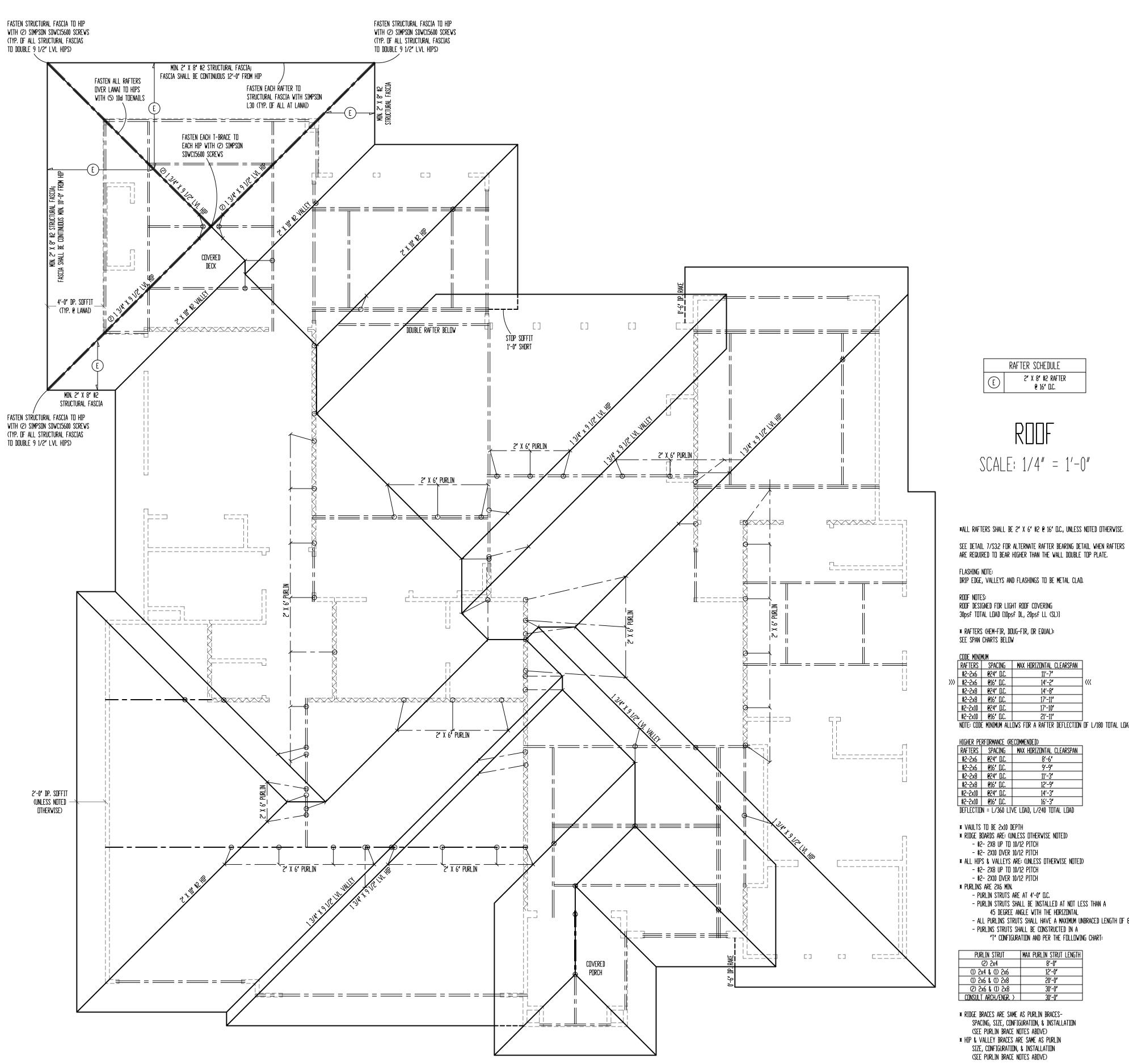
FRONT ELEVATION SCALE: 1/4'' = 1'-0''





Designed for: Designed for: Designed for: Site Description: Nate & Susama Lot 10, Woodland Oaks Net e & Susama Site Address: NEGNER Site Address: Street Address: Designed for: Marce Susama Contractor: Marce Woodland Oaks Contractor: Street Address: Contractor: Designed for: Contractor: Designed for Marker Custom Homes, LLC Contractor: Designed for Design Street Address: Marker Custom Homes, LLC Design Street Address: Design Street Address: Design Street Address: Design Street Address: Marker Custom Homes, LLC Design Street Address: Design St
Designed for: Nate & Susanna WEGNER General Contractor: Walker Custom Homes, LLC
M

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





* Slash is top end of brace (/), DOT IS BOTTOM OF BRACE (o). * _____ DENDTES BEARING WALL * _____ DENDTES RDDF BRACE *----- Dendtes Purlin *----- DENDTES BEARING STRUCTURE

* VERTICAL BRACE IF DOT IS UNDER HIP DR VALLEY

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JRLINS STRUT:	s shall have a maximum un	IBRACED LEI
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T" CONFIGURA	tion and per the followin	IG CHART:
STRUT	MAX PURLIN STRUT LENGTH	
2x4	8'-0 '	
(1) 2x6	12′-0 ′	

't" configura	tion and per the following	
STRUT	MAX PURLIN STRUT LENGTH	
2x4	8'-0 '	
(1) 2x6	12'-0'	
(1) 2x8	20'-0 '	
(1) 2x8	30'-0 '	
CH./ENGR. >	30'-0 '	

IF 8'-0**"**

	S SHALL HAVE A MAXIMUM UN	IBRAU
	all be constructed in a Tion and per the followin	IC CL
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2x4	8'-0 '	
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(1) 2x6	12'-0 '	
(1) 2x8	20'-0 '	
(1) 2v8	30′–0 ″	

T" CLINFIGURA	IIIUN ANU PER THE FULLUWI		
STRUT	MAX PURLIN STRUT LENGTH		
2x4	8′-0 ′		
(1) 2x6	12'-0 '		
(1) 2x8	20'-0 '		
(1) 2x8	30'-0 '		
CH./ENGR. >	30'-0 '		

2X6 MIN.	
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45 DEGREE AN	gle with the Horizontal
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'T ' CONFIGURA	tion and per the following chart:
STRUT	MAX PURLIN STRUT LENGTH
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24 " D.C.	8′-6 ′	
16 " D.C.	9′-9 ′	
24 " D.C.	11'-3 '	
16 " D.C.	12'-9 '	
24 " D.C.	14'-3 '	
16 " D.C.	16'-3 '	
L/360 LI	VE LOAD, L/240 TOTAL LOAD	

l/180 Total Load

FACING	MAA MUKIZUNTAL ULLAKSFAN		
24 " D.C.	11′-7 ′		
16 ° D.C.	14'-2 '	\{\{	(
24 " D.C.	14'-8 '		
16 ° D.C.	17'-11 '		
24 " D.C.	17'-10 '		
16 ° D.C.	21′-11 ′		
NIMUM ALL	ows for a rafter deflection	DF	L/1

53 VIEWPOIN RESIDENTIAL DESIGN L

Care and effort have gone into the creation and design of this plan. designer is not an architect or engineer and construction from these undertaken without the assistance of a construction professional, ar Because of the impossibility of any on site consultation and supervis Residential Design, LLC, and Designer assume no responsibility fo including structural failures, due to any deficiencies, omissions or et blueprints. Also, site conditions may vary from those illustrated on the does not warrant the suitability of these plans for your specific architect to determine the suitability of these plans for your specific "For God so loved the world, that he gave his only begotten Son, that whosoever believeth in him should not perish, but have everlasting life" (John 3:16).



Sheet Title: **ROOF PLAN**

Sheet No.:

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Rev. 2:

Rev. 3:

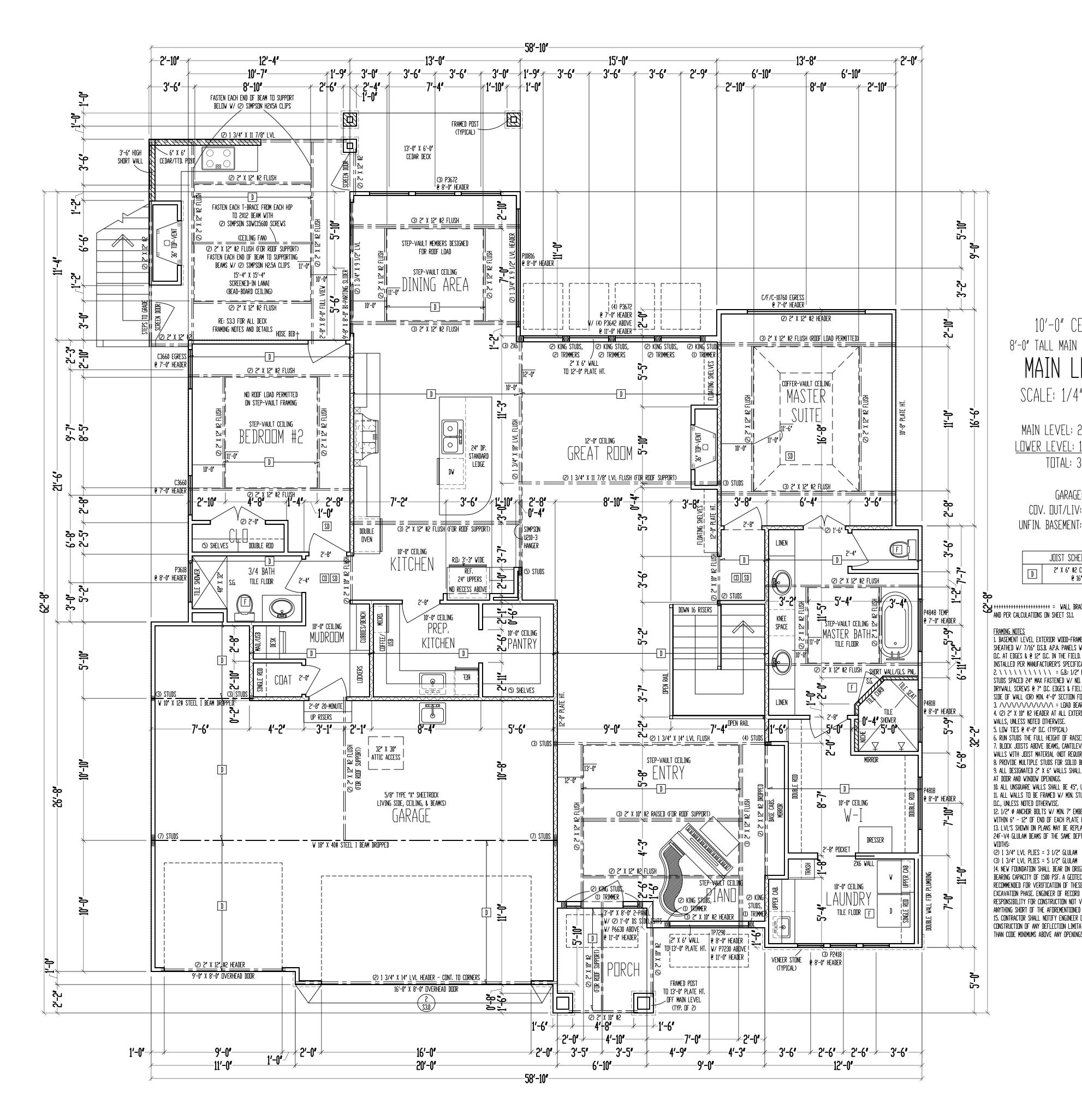
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Walk

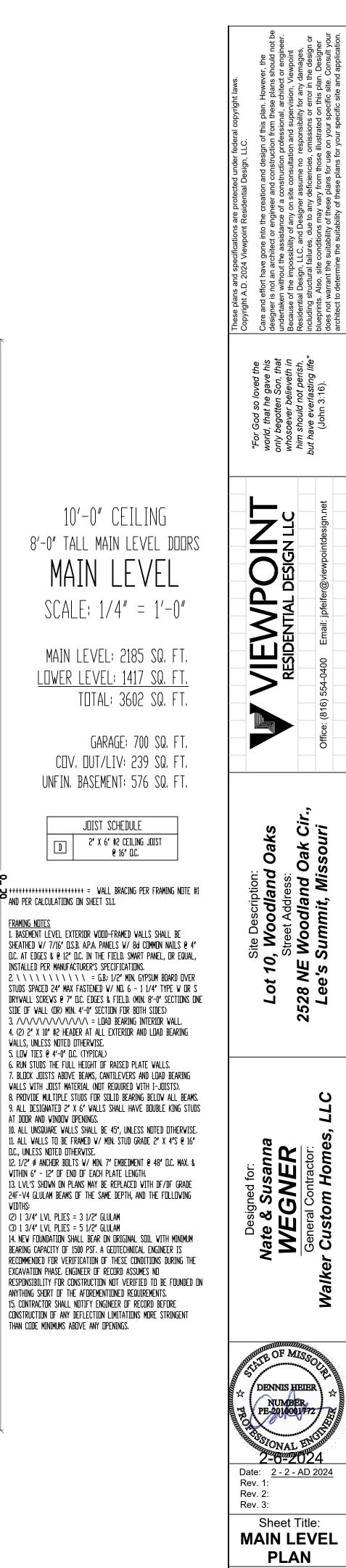
Site Description: Lot 10, Woodland (Street Address: 2528 NE Woodland O Lee's Summit, Miss

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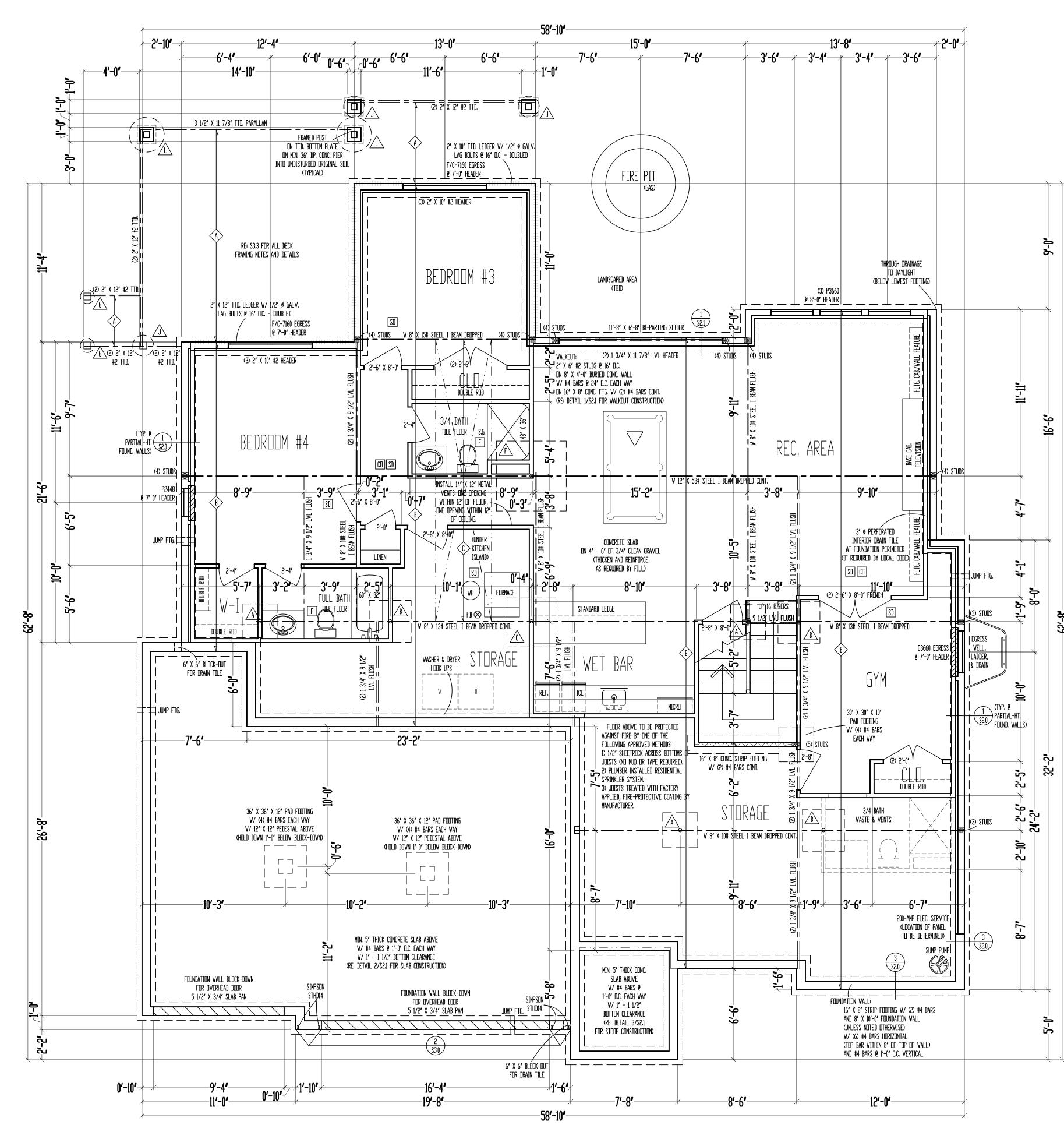




Sheet No.:

A-3

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9'-0" FOUNDATION WALLS (UNLESS NOTED OTHERWISE) ON 16" X 8" STRIP FOOTINGS (STEP WHERE GRADE REQUIRES) 9 1/2" I-JOIST	"For God so loved the world, that he gave his only begotten Son, that whosoever believeth in him should not perish, but have everlasting life" (John 3:16).
FLOOR SYSTEM ABOVE 2" X 6" EXT, WALLS FOUNDATION SCALE; $1/4" = 1'-0"$	Office: (816) 554-0400 Email: jpfeifer@viewpointdesign.net
 5. LDV TIES @ 4'-0' CLC. (TYPICAL) 6. RUN STUDS THE FULL HEIGHT DF RAISED PLATE VALLS. 7. BLOCK JDISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING VALLS VITH JDIST MATERIAL (NDT REQUIRED VITH I-JDISTS). 8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELDV ALL BEAMS. 9. ALL DESIGNATED 2' X 6' VALLS SHALL HAVE DOUBLE KING STUDS AT DODR AND VINDOV OPENINGS. 10. ALL UNSQUARE VALLS SHALL BE 45°, UNLESS NOTED DTHERVISE. 11. ALL VALLS TO BE FRAMED V/ MIN. STUD GRADE 2' X 4'S @ 16' CLC, UNLESS NOTED DTHERVISE. 12. 1/2' Ø ANCHOR BOLTS V/ MIN. 7' EMBEDMENT @ 48' CLC. MAX. & VITHIN 6' - 12' OF END OF EACH PLATE LENGTH. 13. LVL'S SHOWN ON PLANS MAY BE REPLACED VITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING VIDTHS: (2) 1 3/4' LVL PLIES = 3 1/2' GLULAM (3) 1 3/4' LVL PLIES = 5 1/2' GLULAM 13. AVY FDUNDATION SHALL BEAR ON ORIGINAL SOIL VITH MINIMUM BEARING CAPACITY OF 1500 PSF. A GEDTECHNICAL ENGINEER IS RECOMMENDED FOR VERIFICATION OF THESE CONDITIONS DURING THE EXCAVATION PHASE. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANYTHING SHORT OF THE AFDREMENTIONED REQUIREMENTS. 15. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE 	Site Description: Lot 10, Woodland Oaks Street Address: 2528 NE Woodland Oak Cir., Lee's Summit, Missouri
CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY DPENINGS. $\begin{array}{c c c c c c c c c c c c c c c c c c c $	Designed for: Nate & Susanna WEGNER General Contractor: Walker Custom Homes, LLC
F DN 60' X 60' X 14' PAD FDDTING V/ (8) #4 BARS EACH VAY (SO.0k)PIER FDDTING SCHEDULE \widehat{G} 12' Ø PIER FTG. \widehat{H} 16' Ø PIER FTG. \widehat{H} 18' Ø PIER FTG. \widehat{K} 24' Ø PIER FTG. \widehat{L} 30' Ø PIER FTG. \widehat{L} 30' Ø PIER FTG. \widehat{L} 9 1/2' LPI-20 FLOOR JOIST e 16' DC. CONT. \widehat{C} 9 1/2' LPI-20 FLOOR JOIST e 12' DC. CONT.	DENNISHEIER NUMBER PE-2010001772 DENNISHEIER NUMBER PE-2010001772 Dennisheier Dennisheier Dennishei

	FASTENER SCHEDULE FOR STRUCTURAL MEMBERS	
DESCRIPTION OF BUILDING ELEMENTS		SPACING AND LOCATION
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP	ROOF ¹	
PLATE, TOE NAIL	4-8d (2 ½ " 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 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 1 /2" x 0.135") - TOENAIL; 3-16d BOX (3 1 /2" 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 NTERSECTING 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 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 1 /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 / ₂ " x 0.113")	FACE NAIL
1"x8" SHEATHING TO EACH BEARING	3-8d BOX (2 2 " x 0.113") - FACE NAIL; WIDER THAN 1"x8" - 4-8d BOX (2 2 " 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 ¹ / ₂ " x 0.135")	BLIND AND FACE NAIL
2" PLANKS (PLAN & BEAM - FLOOR AND ROOF)	3-16d BOX (3 1 /2" x 0.135")	AT EACH BEARING, FACE NAIL
BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 1 /2" x 0.162")	END NAIL
BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER	10d BOX (3" x 0.128")	24" O.C. FACE NAIL AT TOP AND BOTTOM
	4-16d BOX (3 1 /2" x 0.135")	STAGGERED ON OPPOSITE SIDES AT EACH JOIST OR RAFTER, FACE NAIL
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	2-10d BOX (3" x 0.128")	EACH END, TOENAIL
BRIDGING OR BLOCKING TO JOIST		

SCRIPTION OF BUILDING MATERIALS	FASTNER SCHEDULE FOR DESCRIPTION OF FASTENER	STRUCTURAL MEMBERS EDGE SPACING (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
	FLOOR, ROOF AND INTERIOR WALL SHEA		ARD WALL SHEATHING TO FRAMING ¹
3/8" - 1/2"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	12
¹ % ₂ "- 1"	8d COMMON NAIL (21/2" x 0.131")	6	12
1 1⁄ 8" - 1 1⁄ 4"	10d COMMON (3" x 0.148") NAIL OR 8d (2⅛ x 0.131") DEFORMED NAIL	6	12
	OTHER WALL	SHEATHING	
¹ / ₂ " STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 ¹ / ₂ " GALVANIZED ROOFING NAIL, ⁷ / ₁₆ " HEAD DIAMETER, OR 1 ¹ / ₄ " LONG 16 GA. STAPLE WITH ⁷ / ₁₆ " OR 1" CROWN	3	6
²⁵ / ₃₂ " STRUCTURAL CELLULOSIC 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
"∕Z" GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1¼" SCREWS, TYPE W OR S	7	7
⁵ ∕⁄8" GYPSUM SHEATHING	1¾" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1⅛" LONG; 1⅛" SCREWS, TYPE W OR S	7	7
wo	OD STRUCTURAL PANELS, COMBINATION	N SUBFLOOR UNDERLAYMENT TO FRAM	ЛING
⅔" AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2 ½ " x 0.131") NAIL	6	12
7∕8 " - 1"	8d COMMON (2¥2" x 0.131") NAIL OR 8d DEFORMED (2¥2" x 0.120") NAIL	6	12
11⁄8" - 11⁄4"	10d COMMON (3" x 0.148") NAIL OR 8d DEFORMED (21⁄2" 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



DIME

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

THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION'S RESIDENTIAL FOUNDATION 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 OF 6" OF GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT BELOW FOOTING LEVEL OR TERMINATE IN A 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.

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 BASEMENT FLOOR SLAB SHALL BE A MINIMUM OF 4" THICK ON A MINIMUM BASE COURSE OF 4" TO 6" OF SAND, GRAVEL OR CRUSHED ROCK. BETWEEN THE BASE COURSE AND FLOOR SLAB SHALL BE PLACED A 6-MIL POLY

VAPOR RETARDER WITH MINIMUM OVERLAP OF 6" AT DISCONTINUITIES 11. IF A FLOOR IS TO BE SUPPORTED BY A MINIMUM OF 2'-0" OF GRANULAR FILL OR 8" OF EARTH, BASEMENT SLAB SHALL BE DESIGNED BY A LICENSED ENGINEER

12. SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH ½" Ø ANCHOR BOLTS EMBEDDED A MINIMUM OF 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

17. 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 1/3 19. ALL HEADERS/BEAMS SHALL BEAR ON A MINIMUM OF (2) 2x4 POSTS (KING AND JACK STUDS), UNLESS NOTED 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

MATERIAL 22. JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD. 23. JOISTS FRAMING INTO THE FACE OF A STEEL OR WOOD BEAM SHALL BE SUPPORTED WITH APPROPRIATE

COLD-FORMED STEEL JOIST HANGERS 24. JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID BLOCKING MIN. 1¹/₈" IN THICKNESS OR BY FASTENING RIM TO JOISTS PER FASTENING TABLE TO LEFT

25. ALL WALL COVERINGS SHALL COMPLY WITH IRC SECTION R702.3

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

28. BLOCKING BETWEEN JOISTS UNDER A LOAD-BEARING WALL IS NOT REQUIRED 29. PER IRC SECTION 501.3, BOTTOM OF ALL FLOOR ASSEMBLIES ABOVE UNFINISHED AREAS SHALL BE PROVIDED WITH 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) 30. ENGINEERED LVL's SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E=1900 ksi, AND Fv=285 psi

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 NSTALLED WITH A FLAT WASHER. LOCK WASHER. AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY B

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. 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 1/8" TO 1/4" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN H_{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

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 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 7/8" 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. 43. 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 SHALL BE SPACED NOT MORE THAN 3 FEET ON CENTER AND PLACED WITHIN 12 INCHES OF THE WALL OPENING.

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

GARAGE NOTES (CONTINUED)

THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY 44. MINIMUM 5/8" 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 5/2" 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 %" GYP. BOARD.

45. GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING AND SHALL BE FASTENED WITH $2\frac{1}{2}$ " 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		
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 ^c	-
$GUARDRAIL \text{ IN-FILL COMPONENTS}^b$	50 ^c	-
PASSENGER VEHICLE GARAGES	50	DEPENDENT UPON S 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 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.

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 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 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 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 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

MECHANICAL VENTILATION SVOTEM FANILEFEICAC

LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

ME	<u>-CHANICAL VENTILATIO</u>		
FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RA MAXIMUM (CF
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

MULTIPLE-PLY WOOD BEAM EASTENING SCHEDULE

			MI FASTEINING SCHEDULE		
IENSIONAL LUMBER BEAM SIZE/TYPE	FASTENERS	LVL BEAM SIZE/TYPE	FASTENERS	LVL BEAM SIZE/TYPE	
(2) 2x	(2) ROWS 10d @ 12" O.C. ONE SIDE	(2) 1 ³ ⁄ ₄ " UP TO 11 ⁷ ⁄ ₈ " DEPTH	(2) ROWS 16d @ 12" O.C. ONE SIDE	(3) 1 ¾" x 14"+ DEPTH	
(3) 2x	(2) ROWS 10d @ 12" O.C. BOTH SIDES	(2) 1 ¾" 14"+ DEPTH	(3) ROWS 16d @ 12" O.C. ONE SIDE	(4) 1 ¾" UP TO 11 ½" DEPTH	s
(4) 2x	(2) ROWS ¼" x 5" SIMPSON SDS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM, BOTH SIDES	(3) 1 ¾" UP TO 11 ½" DEPTH	(2) ROWS OF 16d @ 12" O.C. BOTH SIDES	(4) 1 ¾" x 14"+ DEPTH	s

SLAB	l
SLAB N	

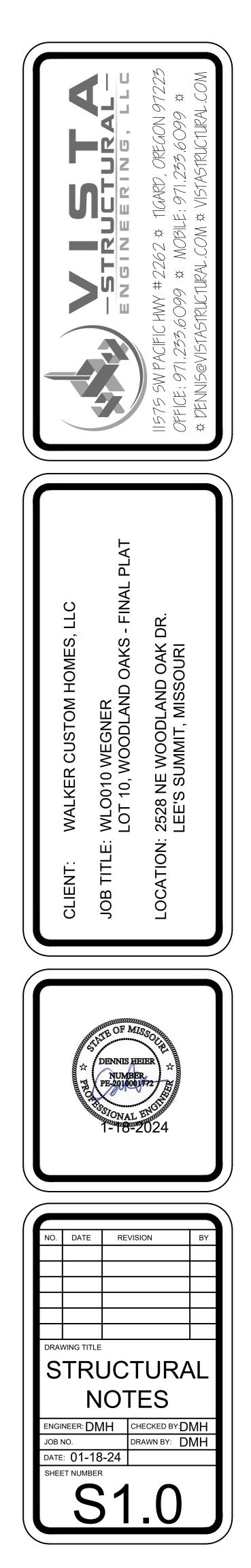
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FASTENERS

(3) ROWS 16d @ 12" O.C. BOTH SIDES (2) ROWS $\frac{1}{4}$ " x 5" SIMPSON SDS OR

SDWS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM BOTH SIDES

(3) ROWS $\frac{1}{4}$ " x 5" SIMPSON SDS OR SDWS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM BOTH SIDES



RESIDENTIAL SEISMIC & WIND ANALYSIS

DETERMINE WEIGHT	OF HOUSE:					
LOCATION					DEAD LOAD (psf)	AREA (ft ²)
ROOF					10	3192
CEILING					10	3192
FIRST FLOOR					10	3192
				WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)
FIRST FLOOR EXT. W	/ALL DL			243		10
					DEAD LOAD (psf)	AREA (ft2)
FIRST FLOOR INT. PA	ARTITION WALL DL				6	3192
	PRO	JECTED AREAS (WIND	DESIGN PER 115 MPH 3	3-SECOND GUST, EXPOSU	IRE C AND MEAN ROOF HEIGHT <= 30) FT ASSUMED)
	FRONT	-TO-BACK			SIDE-TO-S	IDE
	AREA	LOAD			AREA	LOAD
SLOPED ROOF	273	1202		SLOPED ROOF	366	1590
VERT. ROOF	50	697	CUMULATIVE	VERT. ROOF	15	207
1ST	647.13	9024	11070	1ST	689.37	9515
BSMT ^a	0	0	0	BSMT ^a	147	2558
			PRESSURE (PSF) - PER ASCE CH. 6		
	SLOPED ROOF	ZONE B		5.9	ZONE C	11.6
	WALL/VERT. ROOF	ZONE A		17.4	ZONE D	3.4
	MEAN ROOF HT., h		23			
a) If there is a walkout	wall to be sheathed, dete	ermine tributary wind area	a and enter here. If no wa	Ikout, enter 0 for area.		
q _{z10} =0.00256K _z K _{zt} K _d V ²	(ASCE7-10 Velocity Pre	ssure)	q _{z10 ASD} =0.6q _{z10} (Desig	n Velocity Pressure for ASD	analysis under ASCE7-10 and IRC/IBC 2	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 12.2-1)

			SEISMIC	SHEAR	
LOCATION 1ST FLOOR BASEMENT				Fro	m ASCE7 (Eq. 12.8-1):
DAGEMENT					
Sheathing Location	Min. Sheath	ng Schedule	Fas	stening Schedule	Allowa
Exterio: <u>(Option #1)</u>	7/16" APA Rate	d Piywood/OSB		panetration@ 8" OC Edges, 6" OC Field , 12" OC Field For 16" stud spacing	
Exterior <u>(Option #2)</u>	7/16" APA Rate	d Plywood/OSB		panetration@ 4" OC Edges, 6" OC Field , 12" OC Field For 16" stud spacing	
Exterio: <u>(Option #3)</u>	7/16" APA Rate	d Piywood/OSB		panetration@ 3" OC Edges, 6" OC Field , 12" OC Field For 16" stud spacing	
Exterior <u>(Option #4)</u>	sheathing, or 3/8" ship	od/OSB or shiplap panel lap panel sheathing with il spacing	Field for 7/16" APA-rated	8" penetration @ 6" O.C. Edges, 12" O.C. plywood/OSB or shiplap panel sheathing O.C. Field for 3/8" shiplap panel sheathing	
Exterior <u>(Option #5)</u>	sheathing, or 3/8" ship	od/OSB or shiplap panel lap panel sheathing with il spacing	Field for 7/16" APA-rated	3" penetration @ 4" O.C. Edges, 12" O.C. plywood/OSB or shiplap panel sheathing O.C. Field for 3/8" shiplap panel sheathing	
Exterior <u>(Option #6)</u>	sheathing, or 3/8" ship tighter nail spacing and c	od/OSB or shiplap panel lap panel sheathing with louble studs at each pane ge		3" penetration @ 3" O.C. Edges, 12" O.C. Field	
Interior	1/2" Gyps	um Board	No. 6- 1 ¹ / ₄ " Type W or S S	Screws @ 8" O.C. Edges, 12" O.C. Field	
Interior		rpe WB Steel X-Brace (or ual)		3d @ intermediate studs (per manufacture ns - see detail on sheet S3)	
EXTERIOR SHEATHING OPTION FOR	FIRST FLOOR	6		WIDTH OF 1ST STORY (FT.)	58.83
EXTERIOR SHEATHING OPTION FOR	BASEMENT WALLS	4		DEPTH OF 1ST STORY (FT)	62 67

					BACK WALL OF GARAGE (FT.)	0		
					GAR. WALL: 1=F-B, 2=S-S	2		
[i i							
	EXTERIOR STRUCTURAL WALL LENGTHS (ft.) & RESISTANCES							
		SE	ISMIC			WIND		
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)		
1ST FLOOR	92	43240	16	7520	92	60536		
BASEMENT	0	0	25	7000	0	0		
		ADDITIONAL RESIS	TANCE REQUIRED		Anchor Bolt Spacing	(in.		
		SEISMIC	WIND	diameter (in.)		0.5		
1ST FLOOR FRONT-TO-BACK		0	0	Shear value (per NDS)		944		
1ST FLOOR SIDE-TO-	-SIDE	0	931		Spacing F-B (inches)	205.2		
BASEMENT FRONT-T	O-BACK	0	0		spacing S-S (inches)	186.1		

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	931				48	31584	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)	4	18.4	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	16.56	245	16.56				
	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**	3686.8761	-506.691024	4193.567124	15.12	10.5	36371	149.7	
*ALONG PERIMETER	*ALONG PERIMETER TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)				166.2	UPLIFT OK		
**INSIDE EXTERIOR W	/ALLS	RESISTANCE DUE TO DEAD	WEIGHT & (3) 10d TOENAILS		251.6			

INSIDE EXTERIOR WALLS

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

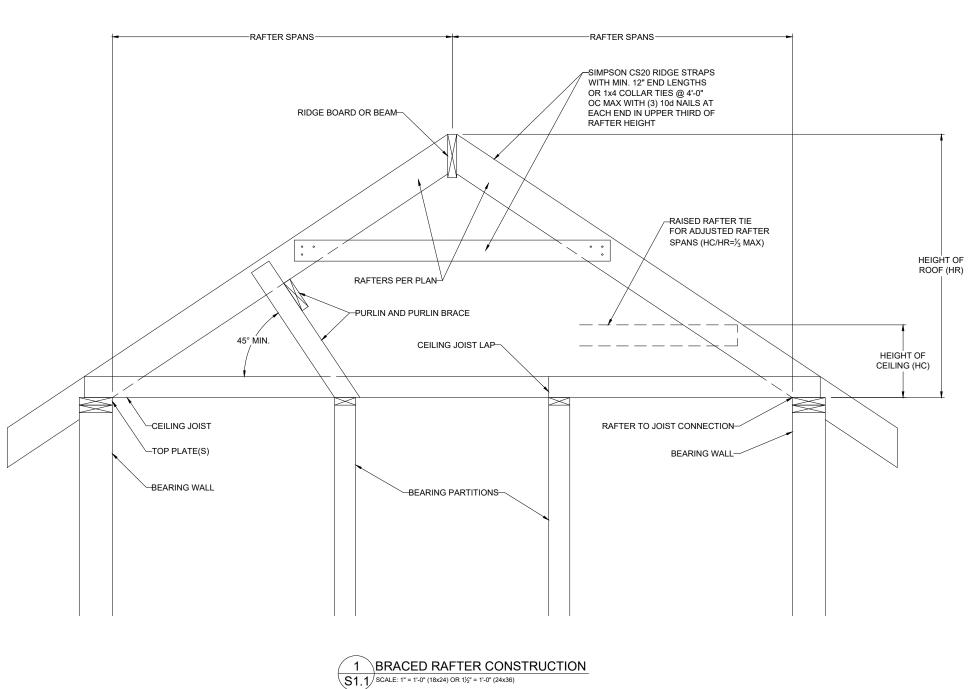


INPUT
CALCULATED VALUE
WEIGHT (lbs.)
31920
31920
31920
WEIGHT (lbs)
24300
WEIGHT (lbs)
19152
CUMULATIVE
11459
8287
2a (FIG. 28.6-1, ASCE7)
11.766

75990	
75990	
12.0%	
1.6	
0.128	
6.5	

V (= 1.2 * S _{DS} * W / R) (lbs.)					
	1796				
	1796				
ble Shear (#/LF)	Code Reference				
155	per IBC, Table 2306.3(1)				
230	per IBC, Table 2305.3(1)				
310	per IBC, Table 2305.3(1)				
220	AF&PA SDPWS Table 4.3A				
320	AF&PA SDPWS Table 4.3A				
410	AF&PA SDPWS Table 4.3A				
60	per IBC, Table 2306.4.4				
325					

SIDE-TO-SIDE	RESISTANCE (lbs.)
16	10528
25	9800
16d Nail Spacing req'd at	bottom plate (in
1st Floor F-B	31
1st Floor S-S	28



Combustion Air Calculation			
Per 2018 IRC Section G2407.5			
Appliance #1	Furnace	100000	E
Appliance #2			E
Appliance #3	Water Heater	50000	E
Total BTU/hr		150000	E
Area of Combined Space (floor v	where appliances are located)	958	f
Ceiling Height in Usable Space		8.5	f

Note: Per 2018 IRC Section G2407.5.3.2, The volumes of spaces in different stories shall be considered as communicating spaces where such spaces are connected by one or more openings in doors or floors having a total minimum free area of 2 square inches per 1,000 BTU/h of total input rating of all appliances

Is floor where appliances are located open to adjacent level? If Yes, what is the area of open space adjacent to appliance area?

Per 2018 IRC Section G2407.5.1 (Standard Method), the minimum required volume shall be 50 cubic feet per 1,000 BTU/hr (Total BTU/hr / 1,000 BTU/hr x 50 ft³)

Required air space in combined areas:	7500 ft
Required combined area:	882 ft
Area of Combined Space > Required combined area?	ОК

Per Section G2407.5.3.1, each opening shall have a minimum free area of 1 square inch per 1,000 BTU/hr of the total input rating of all appliances in the space, but not less than 100 square inches. One opening shall commence within 12 inches of the top and one opening shall commence within 12 inches of the bottom of the enclosure. The minimum dimension of air openings shall be not less than 3 inches.

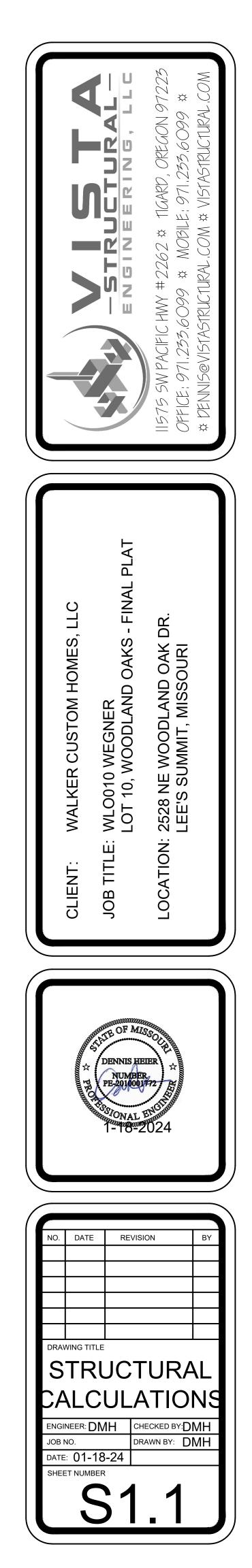
Minmum required opening area:		150	ir
Minimum grill size:	14 x	11	(i
Note: two grills required - one within 12" of	floor, one within 12" of	clg.	

BTU/h BTU/h BTU/h

BTU/h

Yes 0

in (inches)

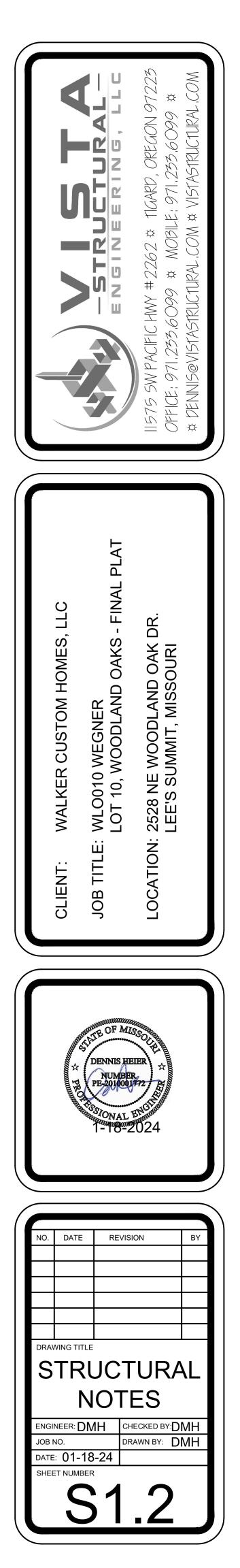


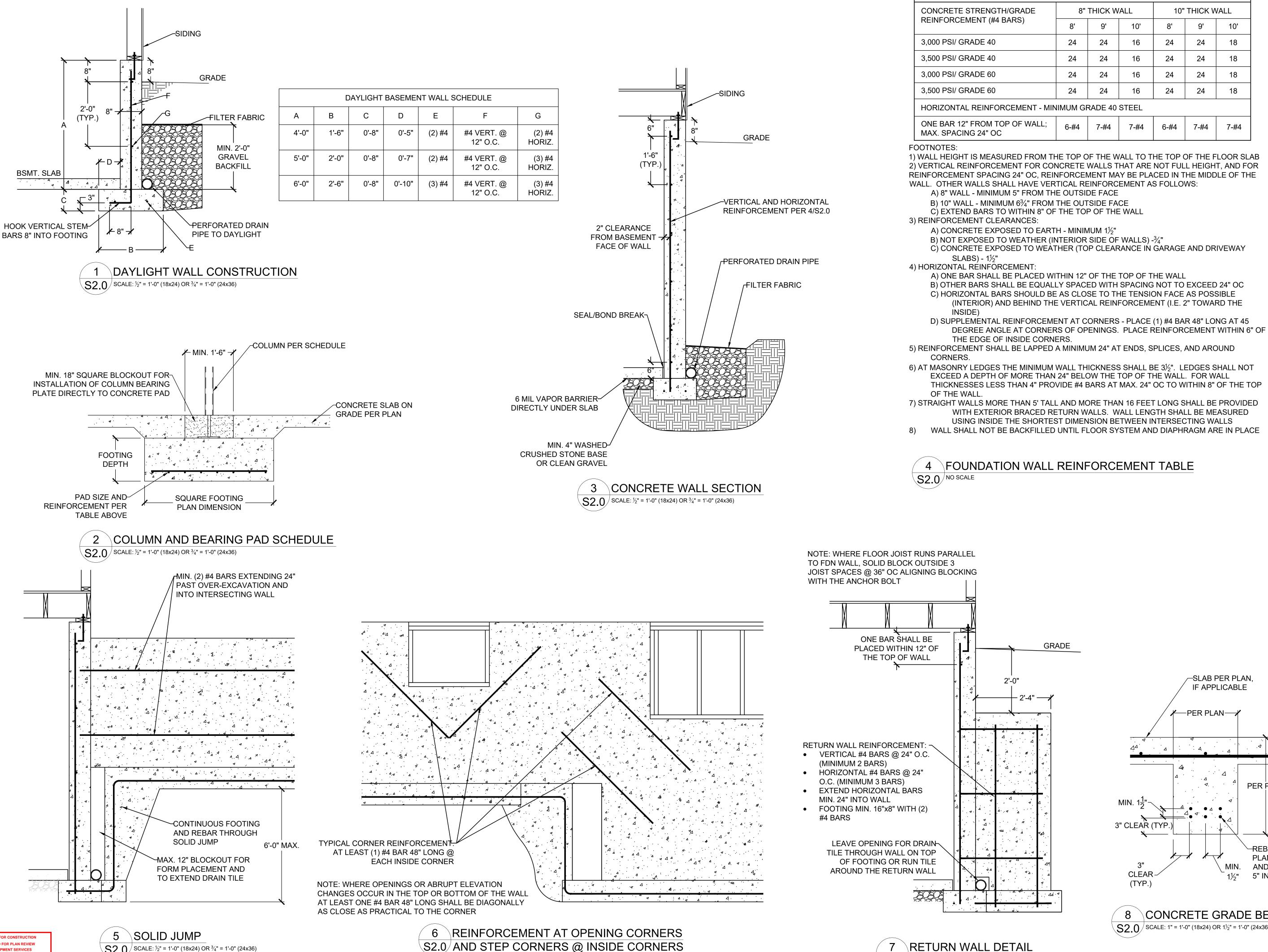
GENERAL NOTES

- 1. PLANS ARE DESIGNED AND REVIEWED IN ACCORDANCE WITH THE 2018 IRC AS ADOPTED BY THE CITY OF OVERLAND PARK
- RESIDENTIAL CONCRETE AND ASPHALT DRIVEWAY SLABS SHALL BE A MIN. 4" THICK. THE DRIVEWAY SHALL HAVE A CONSTANT SLOPE SO AS TO AVOID PONDING OF WATER. THE SLOPE SHALL BE AWAY FRO THE HOUSE OR BUILDING OR DRAIN BY MEANS APPROVED BY THE BUILDING OFFICIAL
 APPROVED NUMBERS OR ADDRESSES SHALL BE PROVIDED FOR ALL NEW BUILDING IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FRO THE STREET OR ROAD FRONTING THE PROPERTY AND LOCATED NOT MORE THAN 50 FEET FROM THE PROPERTY LINE. ADDRESS CHARACTERS SHALL
- HAVE A CONTRASTING BACKGROUND AND HAVE A MIN. HEIGHT OF 4".
 SINGLE FAMILY DWELLINGS SHALL HAVE THE ABILITY TO ILLUMINATE THE ADDRESS AND NUMBERS DURING THE HOURS OF DARKNESS WITH A POWER
- SOURCE CONNECTED TO THE HOUSE ELECTRICAL SYSTEM OR OTHER APPROVED SOURCE OF ILLUMINATION.
 EXCEPT FOR VEHICULAR ACCESS DOORS, ALL EXTERIOR SWINGING DOORS OF RESIDENTIAL BUILDINGS AND ATTACHED GARAGES, INCLUDING THE DOORS LEADING FROM THE GARAGE AREA INTO THE DWELLING UNIT SHALL COMPLY WITH SECTIONS R328.2.1 THROUGH R328.2.5 FOR THE TYPE OF DOOR INSTALLED.
- 6. WHERE INSTALLED, EXTERIOR WOOD DOORS SHALL BE OF SOLID CORE CONSTRUCTION SUCH AS HIGH-DENSITY PARTICLE BOARD, SOLID WOOD, OR WOOD BLOCK CORE WITH A MINIMUM THICKNESS OF 1³/₄" AT ANY POINT. DOORS WITH PANEL INSERTS SHALL BE SOLID WOOD. THE PANELS SHALL BE A MINIMUM OF 1" THICK. THE TAPERED PORTION OF THE PANEL THAT INSERTS INTO THE GROOVE OF THE DOOR SHALL BE A MINIMUM OF ¹/₄" THICK. THE GROOVE OR APPLIED MOLDING CONSTRUCTION. THE GROOVE SHALL BE A MINIMUM OF ¹/₂" IN DEPTH.
- WHERE INSTALLED, EXTERIOR STEEL DOORS SHALL BE A MINIMUM THICKNESS OF 24 GAUGE
 FIBERGLASS DOORS SHALL HAVE A MINIMUM SKIN THICKNESS OF ¹/₁₆" AND HAVE REINFORRCEMENT MATERIAL AT THE LOCATION OF THE DEADBOLT
 WHERE INSTALLED, THE INACTIVE LEAF OF AN EXTERIOR DOUBLE DOOR SHALL BE PROVIDED WITH FLUSH BOLTS HAVING AN ENGAGEMENT OF NOT
- LESS THAN 1" INTO THE HEAD AND THRESHOLD OF THE DOOR FRAME
 WHERE INSTALLED, EXTERIOR SLIDING DOORS SHALL COMPLY WITH ALL OF THE FOLLOWING REQUIREMENTS: A) SLIDING DOOR ASSEMBLIES SHALL BE INSTALLED TO PREVENT THE REMOVAL OF THE PANELS AND THE GLAZING FROM THE EXTERIOR WITH THE INSTALLATION OF SHIMS OR SCREWS IN THE UPPER TRACK AND B) ALL SLIDING GLASS DOORS SHALL BE EQUIPPED WITH A SECONDARY LOCKING DEVICE CONSISTING OF A METAL PIN OR A SURFACE MOUNTED BOLT ASSEMBLY, METAL PINS SHALL BE INSTALLED AT THE INTERSECTION OF THE INNER AND OUTER PANELS OF THE INSIDE DOOR AND SHALL NOT PENETRATE THE FRAME'S EXTERIOR SURFACE. THE SURFACE MOUNTED BOLT ASSEMBLY SHALL BE INSTALLED A THE BASE OF THE DOOR.
- WOOD DOOR FRAMES SHALL COMPLY WITH ALL OF THE FOLLOWING REQUIREMENTS: A) ALL EXTERIOR DOOR FRAMES SHALL BE SET IN FRAME OPENINGS CONSTRUCTED OF DOUBLE STUDDING OR EQUIVALENT CONSTRUCTION, INCLUDING GARAGE DOOR, BUT EXCLUDING OVERHEAD DOORS. DOOR FRAMES, INCLUDING THOSE WITH SIDELIGHTS SHALL BE REINFORCED IN ACCORDANCE WITH ASTM F476-84 GRADE 40, AND B) IN WOOD FRAMING, HORIZONTAL BLOCKING SHALL BE PLACED BETWEEN STUDS AT THE DOOR LOCK HEIGHT FOR THREE STUDS SPACES OR EQUIVALENT BRACING ON EACH SIDE OF THE DOOR OPENING.
- 12. ALL EXTERIOR DOOR FRAMES (INCLUDING THE DOOR LEADING FROM THE GARAGE TO THE DWELLING UNIT) SHALL BE CONSTRUCTED OF 18 GAUGE OR HEAVIER STEEL AND REINFORCED AT THE HINGES AND STRIKES. ALL STEEL FRAMES SHALL BE ANCHORED TO THE WALL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. SUPPORTING WALL STRUCTURES SHALL CONSIST OF DOUBLE STUDDING OR FRAMING OF EQUIVALENT STRENGTH. FRAMES SHALL BE INSTALLED TO ELIMINATE TOLERANCES INSIDE THE ROUGH OPENING.
- DOOR JAMBS SHALL BE INSTALLED WITH SOLID BACKING IN A MANNER SO NO VOID EXITS BETWEEN THE STRIKE SIDE OF THE JAMB AND THE FRAME OPENING FOR A VERTICAL DISTANCE OF 12" EACH SIDE OF THE STRIKE. FILLER MATERIAL SHALL CONSIST OF A SOLID WOOD BLOCK.
 DOOR STOPS ON WOODEN JAMBS FOR IN-SWITCHING DOORS SHALL BE OF ONE-PIECE CONSTRUCTION. JAMBS FOR ALL DOORS SHALL BE
- CONSTRUCTED OR PROTECTED SO AS TO PREVENT VIOLATION OF THE STRIKE.
- 15. HINGES FOR EXTERIOR SWINGING DOORS SHALL COMPLY WITH THE FOLLOWING: A) AT LEAST TWO SCREWS 3" IN LENGTH PENETRATING AT LEAST 1" INTO WALL STRUCTURE SHALL BE USED. SOLID WOOD FILLERS OR SHIMS SHALL BE USED TO ELIMINATE ANY SPACE BETWEEN THE WALL STRUCTURE AND DOOR FRAME BEHIND EACH HINGE, AND B) HINGES FOR OUT-SWINGING DOORS SHALL BE EQUIPPED WITH MECHANICAL INTERLOCK TO PRECLUDE THE REMOVAL OF THE DOOR FROM THE EXTERIOR.
- 16. EXTERIOR DOOR STRIKE PLATES SHALL BE A MINIMUM OF 18 GAUGE METAL WITH FOUR OFFSET SCREW HOLES. STRIKE PLATES SHALL BE ATTACHED TO WOOD WITH NOT LESS THAN 3" SCREWS, WHICH SHALL HAVE A MINIMUM OF 1" PENETRATION INTO THE NEAREST STUD. NOTE: FOR SIDE LIGHTED UNITS, REFER TO SECTION R328.4.6
- 17. ALL EXTERIOR DOORS SHALL HAVE ESCUTCHEON PLATES OR WRAP-AROUND DOOR CHANNELS INSTALLED AROUND THE LOCK PROTECTING THE DOOR'S EDGE
- 18. EXTERIOR DOORS SHALL BE PROVIDED WITH A LOCKING DEVICE COMPLYING WITH ONE OF THE FOLLOWING:SINGLE CYLINDER DEADBOLT SHALL HAVE A MINIMUM PROJECTION OF 1". THE DEADBOLT SHALL PENETRATE AT LEAST ³/₄" INTO THE STRIKE RECEIVING THE PROJECTED BOLT. THE CYLINDER SHALL HAVE A TWIST-RESISTANT TAPERED HARDENED STEEL CYLINDER GUARD. THE CYLINDER SHALL HAVE A MINIMUM OF FIVE PIN TUMBLERS, SHALL BE CONNECTED TO THE INNER PORTION OF THE LOCK BY SOLID METAL CONNECTING SCREWS AT LEAST ¹/₄" IN DIAMETER AND ²/₄" IN LENGTH. BOLT ASSEMBLY (BOLT HOUSING) UNIT SHALL BE OF SINGLE PIECE CONSTRUCTION. ALL DEADBOLTS SHALL MEET ANSI GRADE 2 SPECIFICATIONS.
- 19. ALL MAIN OR FRONT ENTRY DOORS TO DWELLING UNITS SHALL BE ARRANGED SO THAT THE OCCUPANT HAS A VIEW OF THE AREA IMMEDIATELY OUTSIDE THE DOOR WITHOUT OPENING THE DOOR. THE VIEW MAY BE PROVIDED BY A DOOR VIEWER HAVING A FIELD OF VIEW OF NOT LESS THAN 180 DEGREES THROUGH WINDOWS OR THROUGH VIEW PORTS.
- 20. SIDE LIGHT DOOR UNITS SHALL HAVE FRAMING OF DOUBLE STUD CONSTRUCTION OR EQUIVALENT CONSTRUCTION COMPLYING WITH SECTIONS R328.3.1, R328.3.2 AND R3828.3.3. THE DOOR FRAME THAT SEPARATES THE DOOR OPENING FROM THE SIDE LIGHT, WHETHER ON THE LATCH SIDE OR THE HINGE SIDE, SHALL BE DOUBLE STUD CONSTRUCTION OR EQUIVALENT CONSTRUCTION COMPLYING WITH SECTIONS R328.3.1 AND R328.3.2. DOUBLE STUD CONSTRUCTION OR CONSTRUCTION OF EQUIVALENT STRENGTH SHALL EXIST BETWEEN THE GLAZING UNIT OF THE SIDE LIGHT AND WALL STRUCTURE OF THE DWELLING.
- ALL FRONT AND STREET SIDE DOOR ENTRANCES SHOULD BE PROTECTED WITH A MINIMUM OF ONE LIGHT OUTLET HAVING A MINIMUM OF SIXTY WATTS OF LIGHTING (OR ENERGY EFFICIENT EQUIVALENT), INSTALLED SO THAT THE LIGHT SOURCE IS NOT READILY ACCESSIBLE.
 HOMES WITH WINDOWS OR DOORS NEAR CROUND LEVEL BELOW EICHT EFET ON THE READ SIDE OF THE HOUSE SHALL BE FOUNDED WITH A MINIMUM.
- HOMES WITH WINDOWS OR DOORS NEAR GROUND LEVEL BELOW EIGHT FEET ON THE REAR SIDE OF THE HOUSE SHALL BE EQUIPPED WITH A MINIMUM OF ONE LIGHT OUTLET HAVING 100 WATT LIGHTING (OR ENERGY EFFICIENT EQUIVALENT) AND SHALL BE OF THE FLOOD LIGHT TYPE. THOSE FIXTURES PLACED BELOW EIGHT FEET SHALL BE FIXTURES MANUFACTURED SUCH THAT THE LIGHT SOURCE IS NOT READILY ACCESSIBLE.
 BASEMENT FLOOR SLABS SHALL BE ISOLATED FROM COLUMN PADS, INTERIOR COLUMNS AND INTERIOR BEARING WALLS TO FACILITATE DIFFERENTIAL
- 23. BASEMENT FLOOR SLABS SHALL BE ISOLATED FROM COLUMN PADS, INTERIOR COLUMNS AND INTERIOR BEARING WALLS TO FACILITATE DIFFERENTIAL MOVEMENT. NONBEARING WALLS SUPPORTED ON BASEMENT FLOOR SLABS SHALL BE PROVIDED WITH A MINIMUM ONE-INCH EXPANSION JOINT TO FACILITATE DIFFERENTIAL MOVEMENT BETWEEN THE FLOOR SLAB AND THE FLOOR FRAMING ABOVE. ISOLATION AND/ORR AN EXPANSION JOINT IS NOT REQUIRED WITHIN SIX INCHES OF THE EXTERIOR WALLS
- 24. ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTMD226 FOR TYPE 1 FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER WHERE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS. SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES. WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES. THE FELT OR OTHER APPROVED MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1. EXCEPTIONS: OMISSION OF THE WATER-RESISTIVE BARRIER IS PERMITTED IN THE FOLLOWING SITUATIONS A) IN DETACHED ACCESSORY BUILDINGS, AND B) UNDER EXTERIOR WALL FINISH MATERIALS AS PERMITTED IN TABLE R703.4
- 25. IN AREAS WHERE EXPANSIVE OR COLLAPSIBLE SOILS ARE KNOWN TO EXIST, ALL DWELLINGS SHALL HAVE A CONTROLLED METHOD OF WATER DISPOSAL FROM ROOFS THAT WILL COLLECT AND DISCHARGE ALL ROOF DRAINAGE TO THE GROUND SURFACE AT LEAST 3 FEET FROM FOUNDATION WALLS OR TO AN APPROVED DRAINAGE SYSTEM.
- 26. EXTERIOR WALLS ASSOCIATED WITH CONDITIONED BASEMENTS SHALL BE INSULATED FROM THE TOP OF THE BASEMENT WALLS DOWN TO 10'-0" BELOW GRADE OR TO THE BASEMENT FLOOR, WHICHEVER IS LESS. WALLS ASSOCIATED WITH UNCONDITIONED BASEMENTS SHALL MEET THIS REQUIREMENT UNLESS THE FLOOR OVERHEAD IS INSULATED IN ACCORDANCE WITH SECTIONS N1102.1 AND N1102.2.5. EXCEPTION: EXTERIOR BASEMENT WALLS MADE OF CONCRETE OR MASONRY ARE NOT REQUIRED TO BE INSULATED WHEN SUCH WALLS ARE NOT ADJACENT TO FINISHED SPACE AND ARE MORE THAN 50% BELOW GRADE. EXTERIOR BASEMENT WALLS MADE OF CONCRETE AND MASONRY SHALL BE INSULATED WHENEVER THE ADJACENT INTERIOR SPACE IS FINISHED

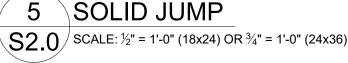


,	ALLOWABLE LOA	D FOR PNEL	JMATIC OR MECHANICALLY DRIVEN NAILS AND ST	APLES			
FASTENER	NAIL GUN	WIRE	PENETRATION REQUIRED INTO MAIN MEMBER	ALLO	OWABLE	E LOADS (LBS.)	
DESCRIPTION	NAILS/WIRE DIA.	GA.	FOR LATERAL STRENGTH (IN.)	LATERAL STRENGTH		WITHDRAWL STRENGTH	
				SP	DFL	SP	DFL
16 GA. STAPLE	0.0630	16	1	51	-	36	32
15 GA. STAPLE	0.0720	15	1	64	-	42	37
14 GA. STAPLE	0.0800	14	1	75	-	46	41
6d COOLER NAIL	0.0920	13	1	46	_	27	23
6d SINKER NAIL	0.0920	15		40	_	21	23
6d BOX NAIL							
6d CASING NAIL	0.0990	12 1/2	1 1/8	61	55	31	24
7d COOLER NAIL							
6d COMMON NAIL							
8d COOLER NAIL							
8d SINKER NAIL	0.1130	11.5000	1 1/4	79	72	35	28
8d BOX NAIL							
8d CASING NAIL							
6d RING SHANK NAIL							
6d SCREW SHANK NAIL	0.1200	11	1.3750	80	89 81	41	32
8d RING SHANK NAIL							
8d SCREW SHANK NAIL							
10d COOLER NAIL			<i>/</i>				
10d SINKER NAIL	0.1280	10.5000	1.5000		81	36	31
12d SHORT							
10d BOX NAILS			1.5000				
12d BOX NAILS	0.1280	10.5000			93	40	31
10d CASING NAILS							
8d COMMON NAILS	0.1310	10.2500	1.5000	106	97	41	32
16d SHORT NAILS							
12d SINKER NAILS	0.1350	10	1.5000	113	103	42	33
16d BOX NAILS							
10d RING SHANK NAILS 10d SCREW SHANK			1.6250	113 10			
NAILS	0.1350	10			103	46	36
12d RING SHANK NAILS	0.1000	10			100	40	
12d SCREW SHANK NAILS							
10d COMMON NAILS							
12d COMMON NAILS							
16d SINKER NAILS	0.1480	9	1.6250	128	118	46	36
20d BOX NAILS							
30d BOX NAILS							
16d RING SHANK NAILS	0.1480	9	1 7500	128	118	50	40
16d SCREW SHANK NAILS	U. 1 1 00	3	1.7500				+0
16d COMMON NAILS	0.1620	8	1.7500		141	50	40
40d BOX NAILS 20d RING SHANK				154			
NAILS 20d SCREW SHANK NAILS	0.1770	7	2.1250	178	163	59	47
20d SINKER NAILS	0.1770	7	2.1250	178	163	54	43
20d COMMON NAILS							
30d SINKER NAILS	0.1480	9	2.1250	170	166	59	47



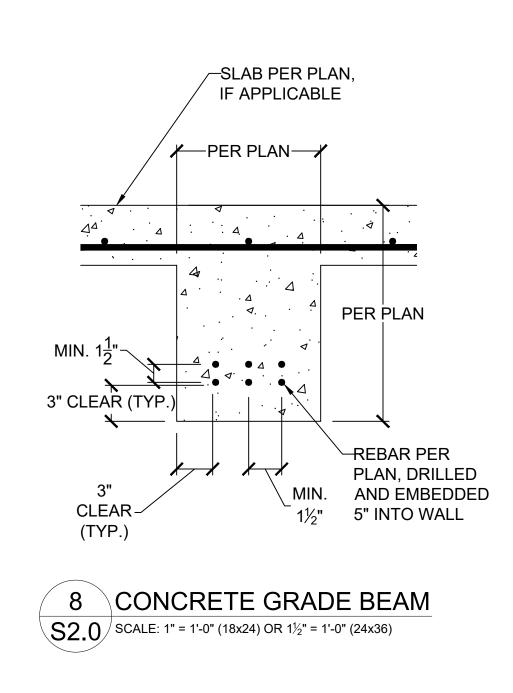






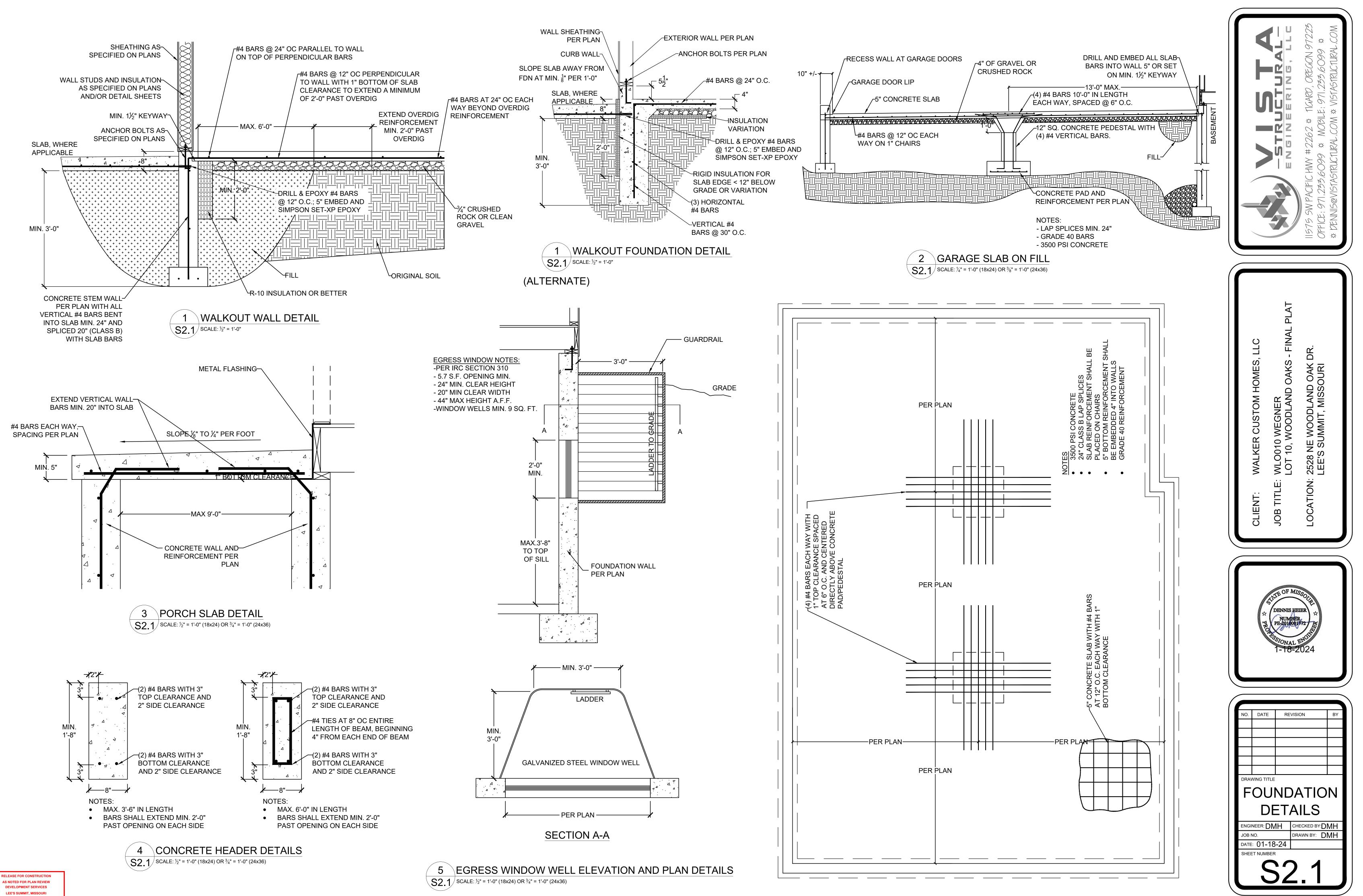
SCALE: ¹/₂" = 1'-0" (18x24) OR ³/₄" = 1'-0" (24x36)

RETURN WALL DETAIL Scale: $\frac{1}{2}$ " = 1'-0" (18x24) OR $\frac{3}{4}$ " = 1'-0" (24x36) GRADE

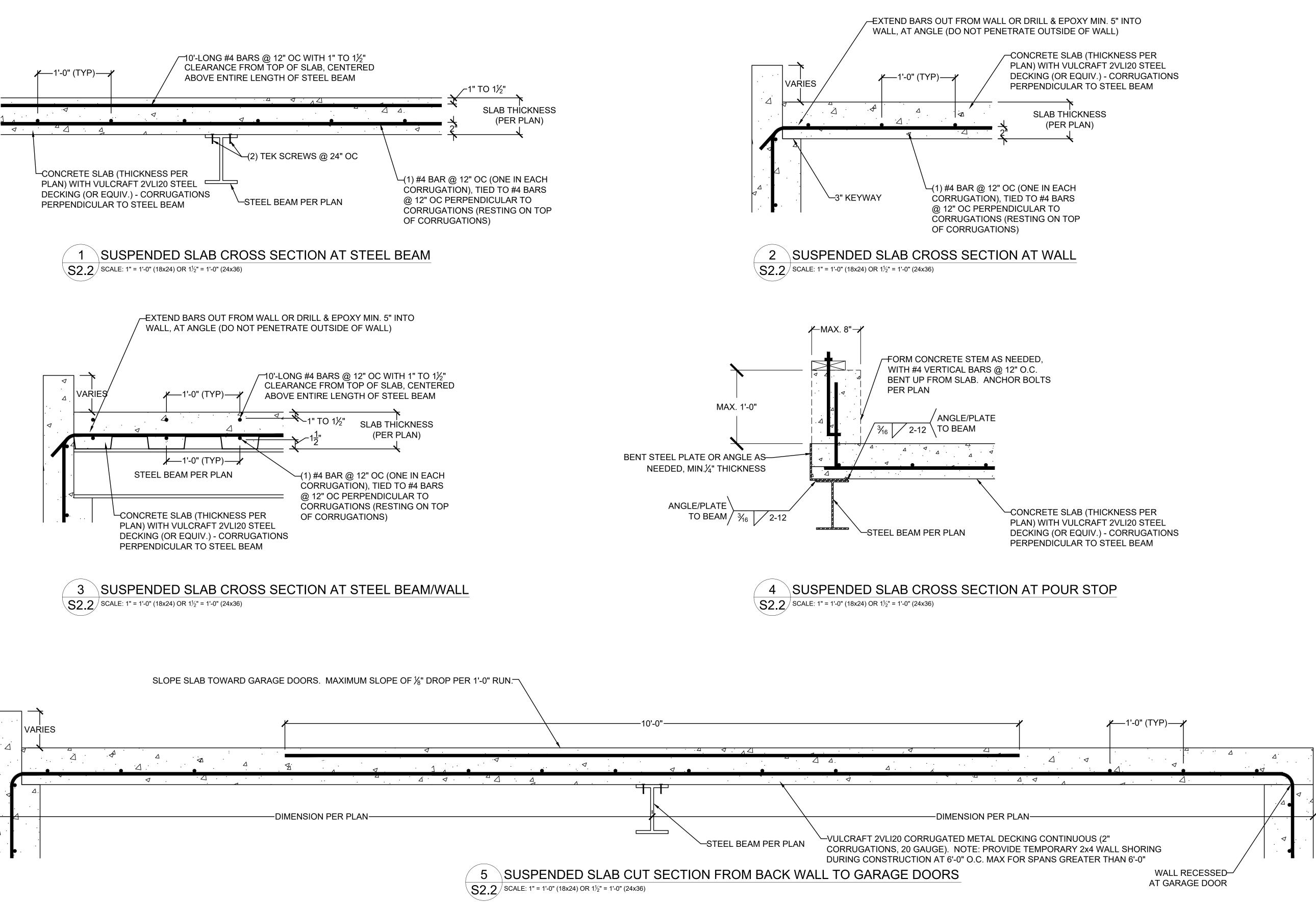


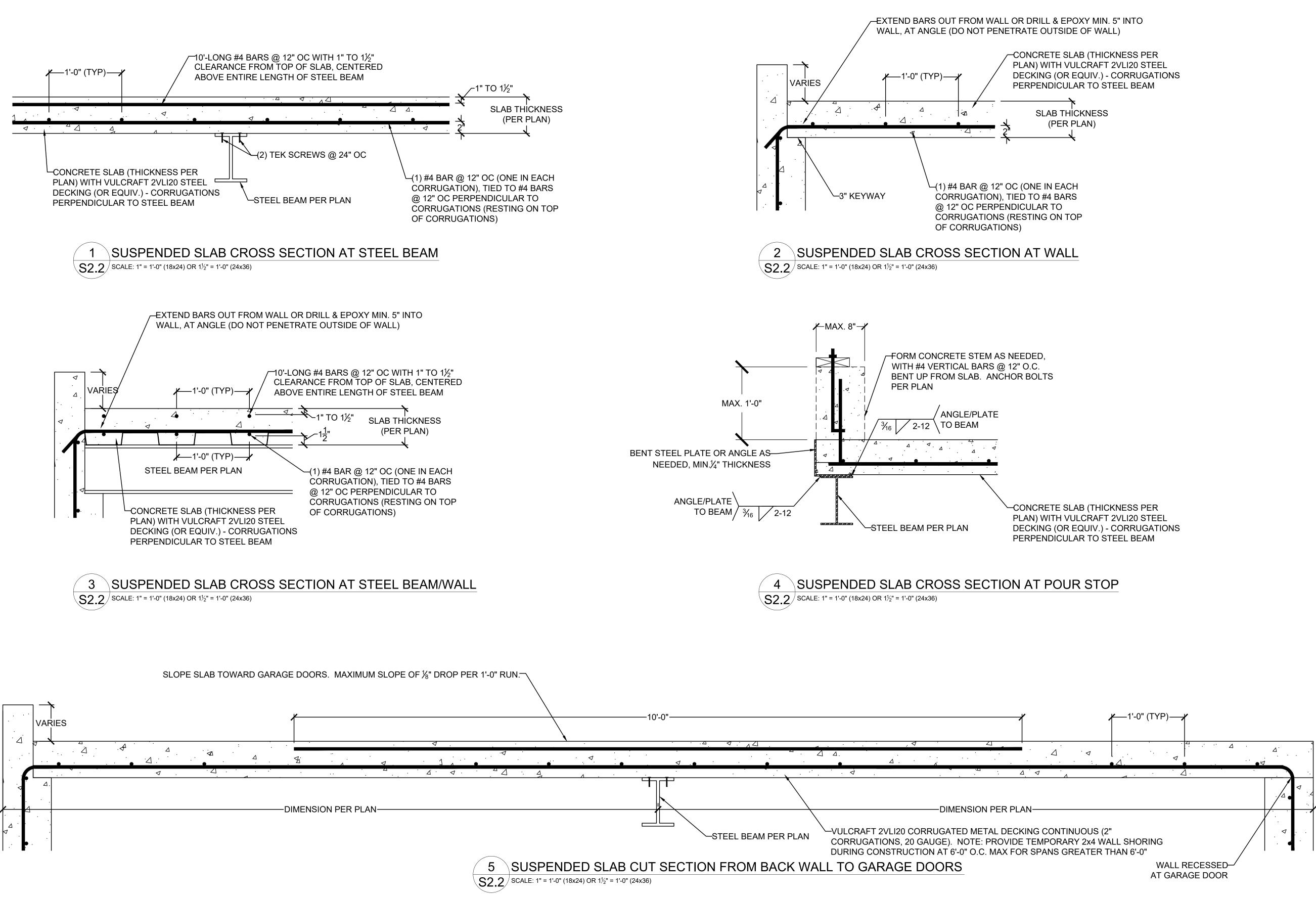
VERTICAL REINFORCEMENT SPACING						
CONCRETE STRENGTH/GRADE	8"	THICK W	ALL	10" THICK WALL		
REINFORCEMENT (#4 BARS)	8'	9'	10'	8'	9'	10'
3,000 PSI/ GRADE 40	24	24	16	24	24	18
3,500 PSI/ GRADE 40	24	24	16	24	24	18
3,000 PSI/ GRADE 60	24	24	16	24	24	18
3,500 PSI/ GRADE 60	24	24	16	24	24	18
HORIZONTAL REINFORCEMENT - MINIMUM GRADE 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

-C|6 JZ UU **M**Z \sim \mathcal{O} Ш KS OAK 11 Ο DN ND MO ZZ WOODI IMMIT, CUS⁻ ^ õ Ň KER NE S SL ζÓ - O Ω 25 LE N N N \geq :NOI CLIENT ш REVISION DATE DRAWING TITLE FOUNDATION DETAILS ENGINEER: DMH CHECKED BY:DMH DRAWN BY: DMH JOB NO. DATE: 01-18-24 SHEET NUMBER

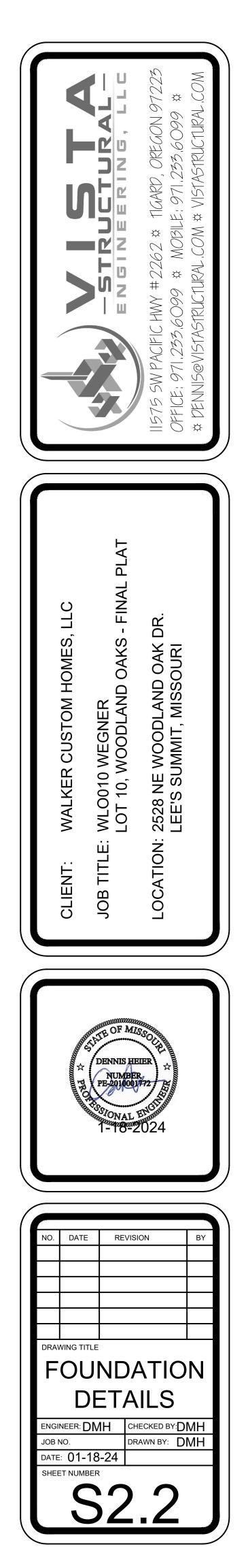


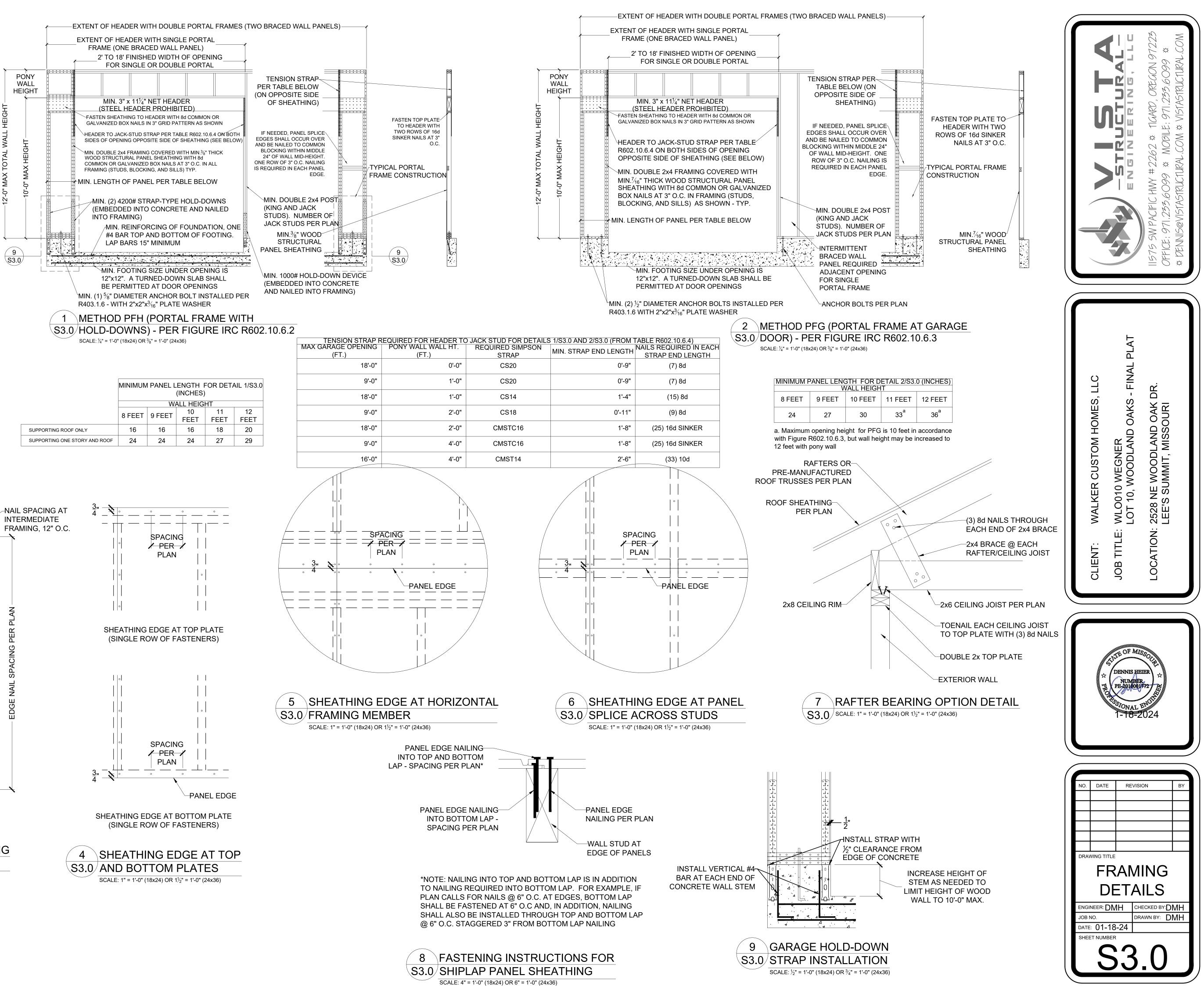
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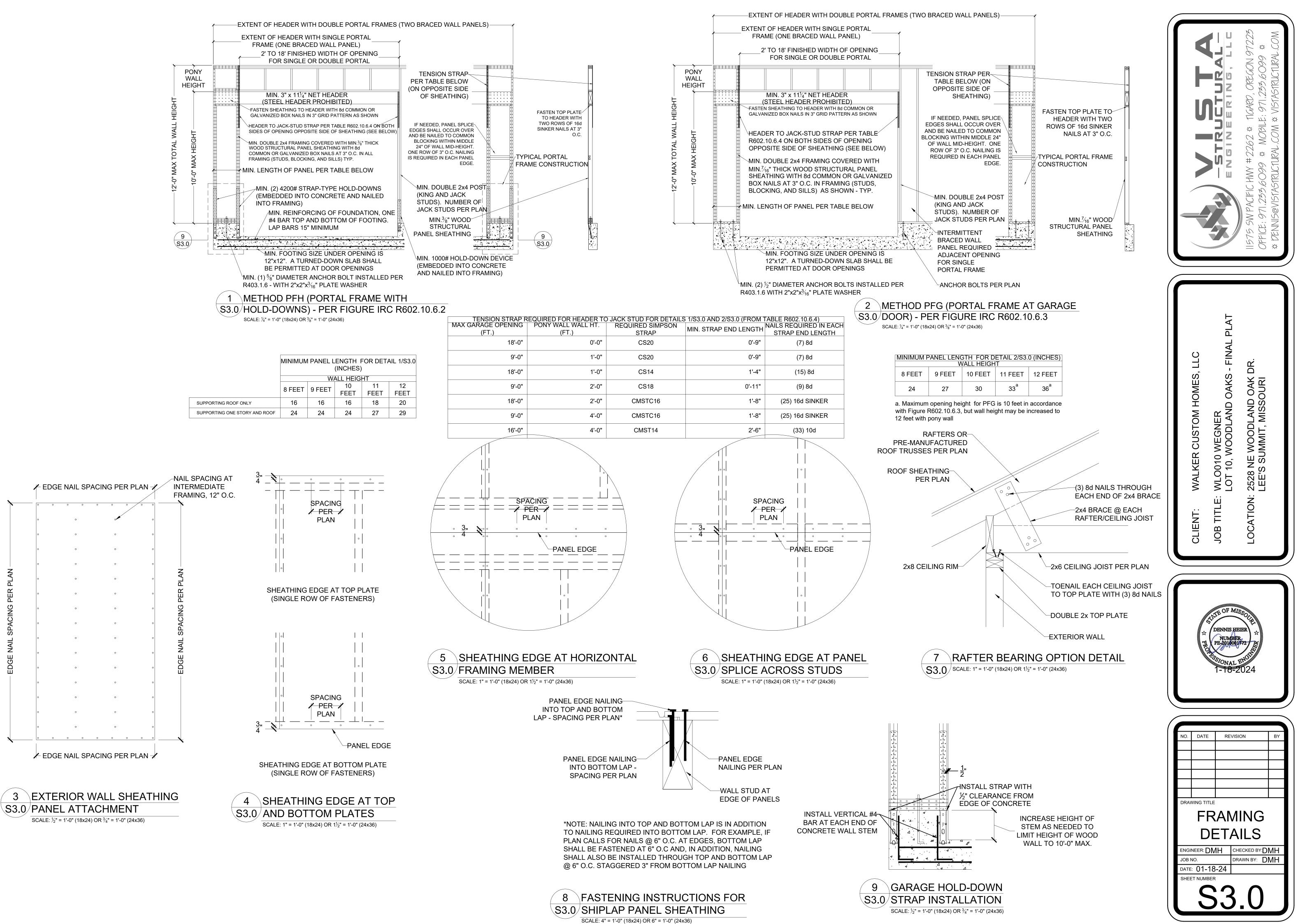




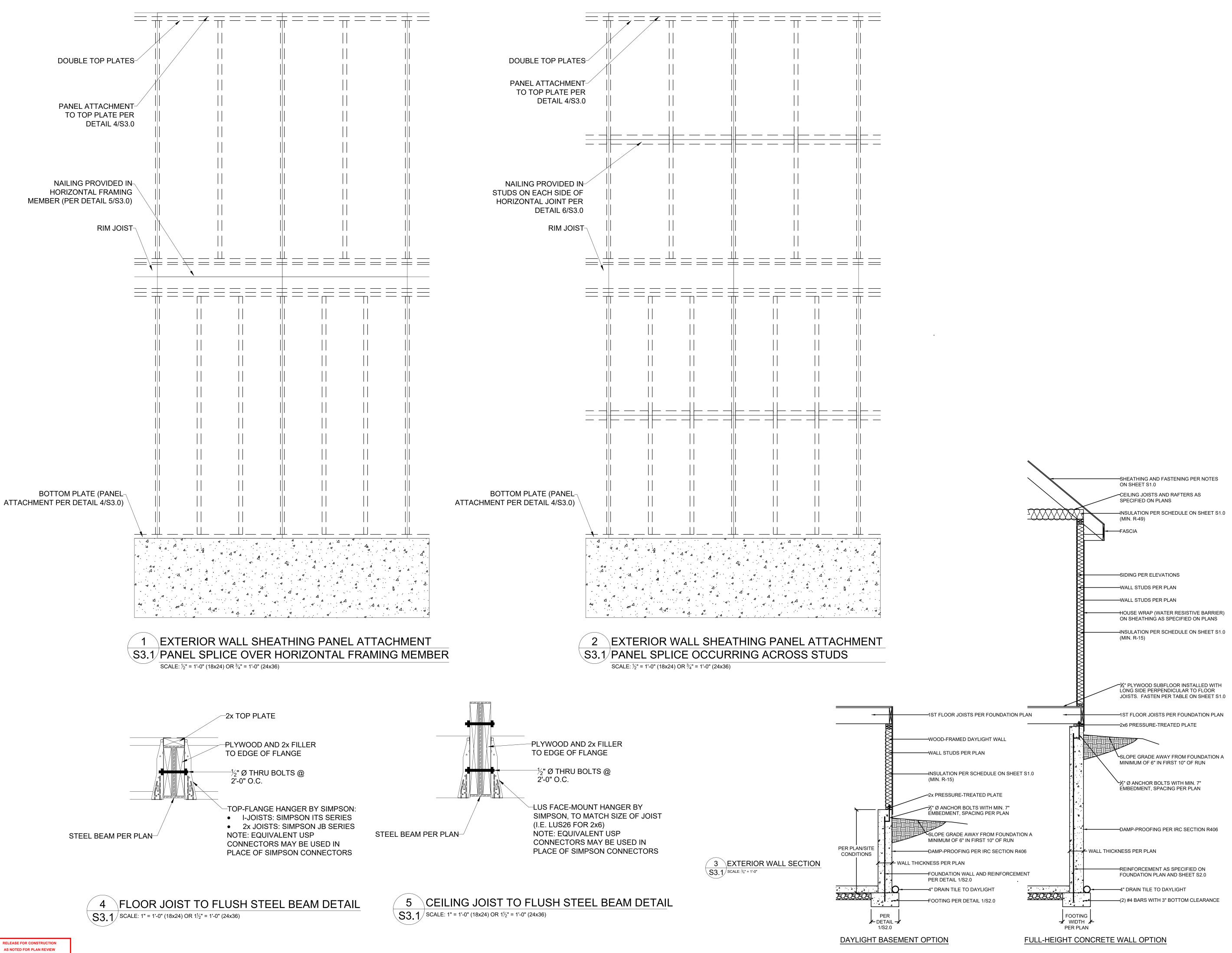




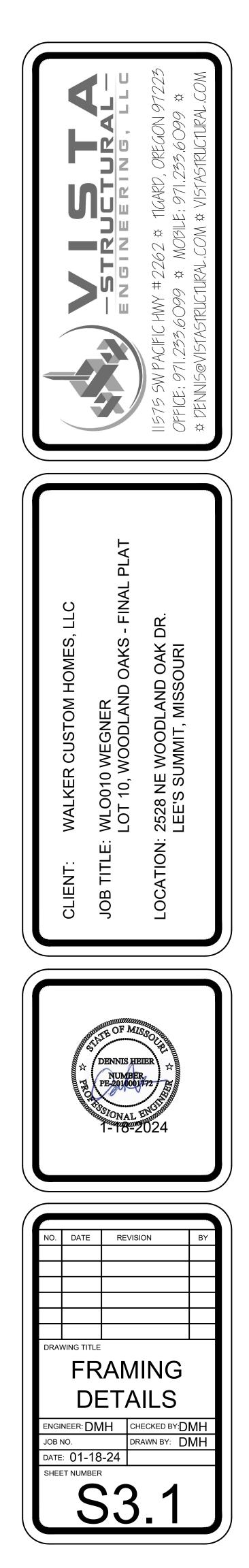
		MINIMUM PANEL LENGTH FOR DETAIL (INCHES)					
WALL HEIGHT					HT		
		8 FEET	9 FEET	10 	11 		
				FEET	FEET	1	
	SUPPORTING ROOF ONLY	16	16	16	18		
	SUPPORTING ONE STORY AND ROOF	24	24	24	27		

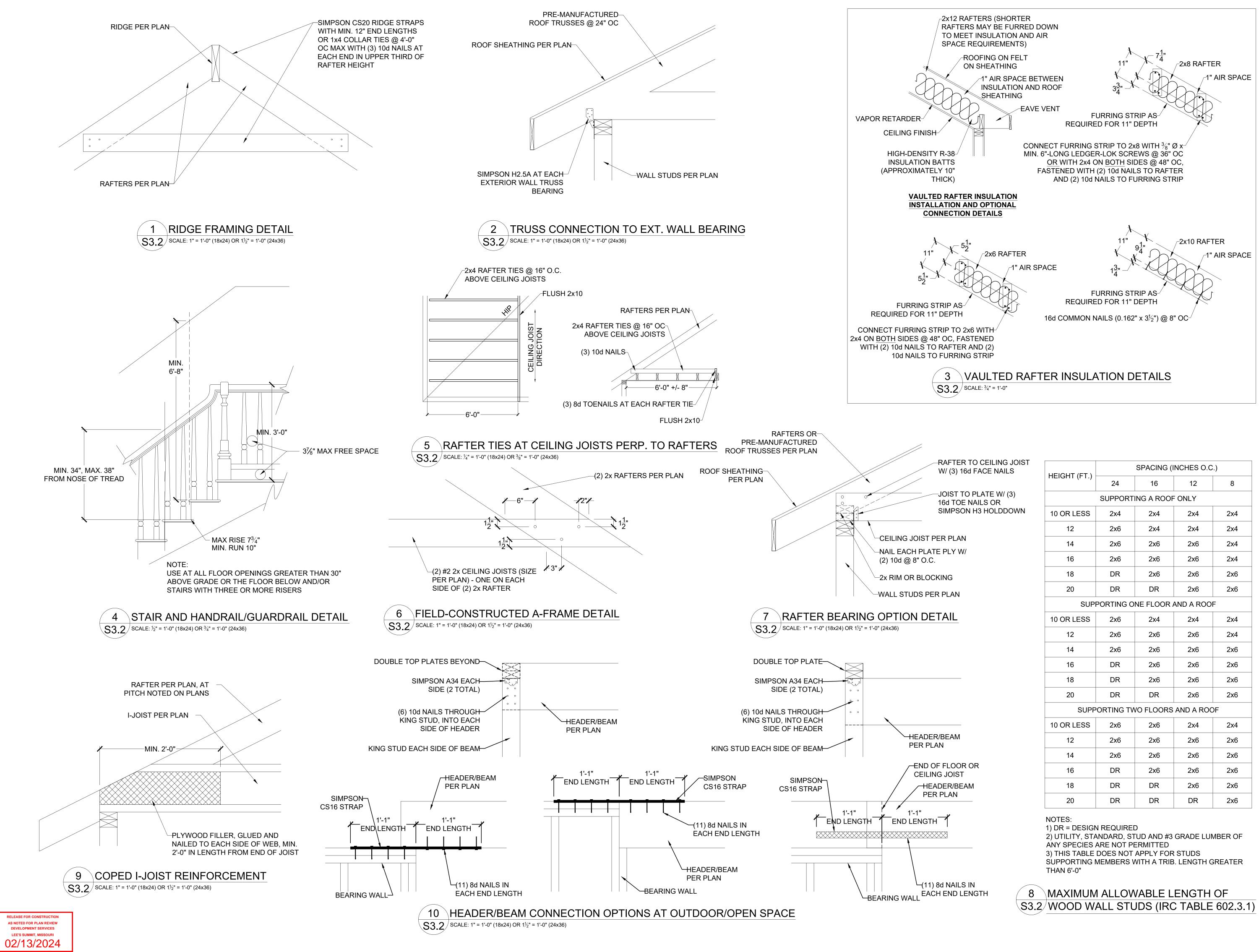




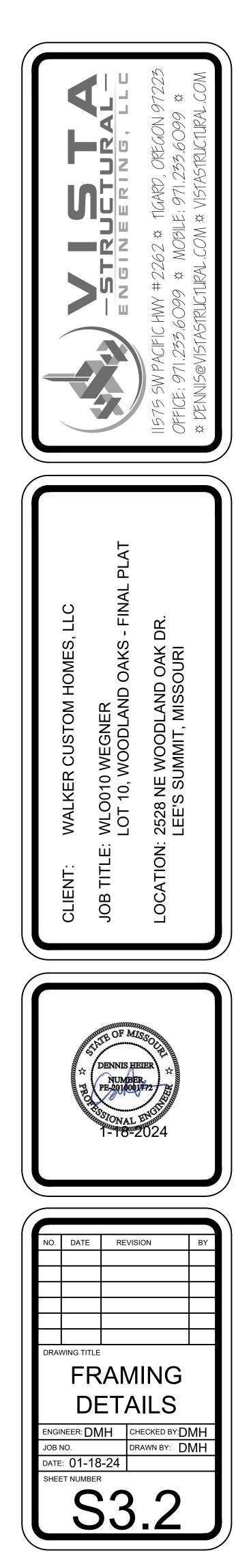


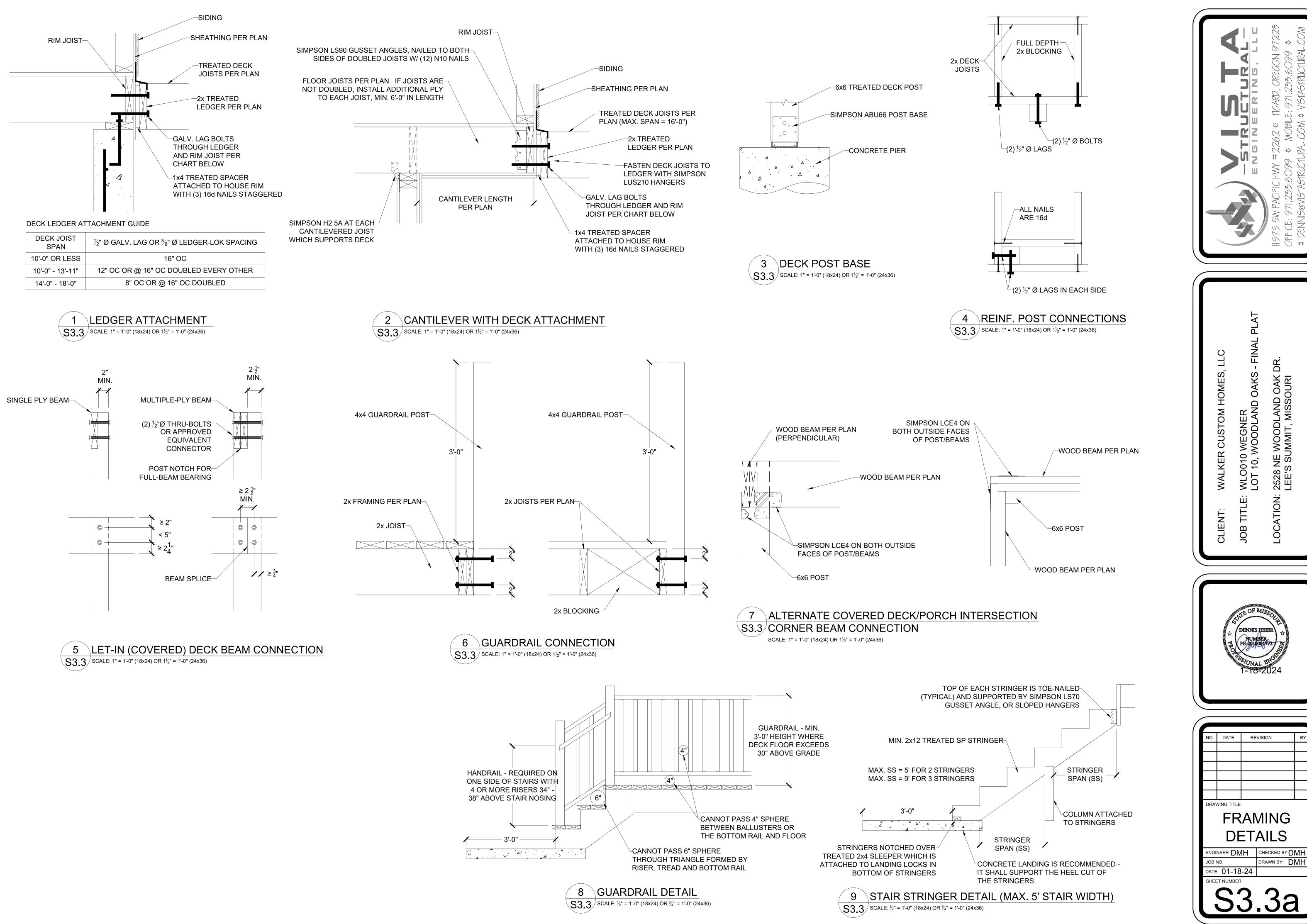
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 02/13/2024

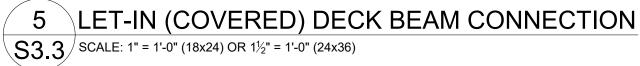




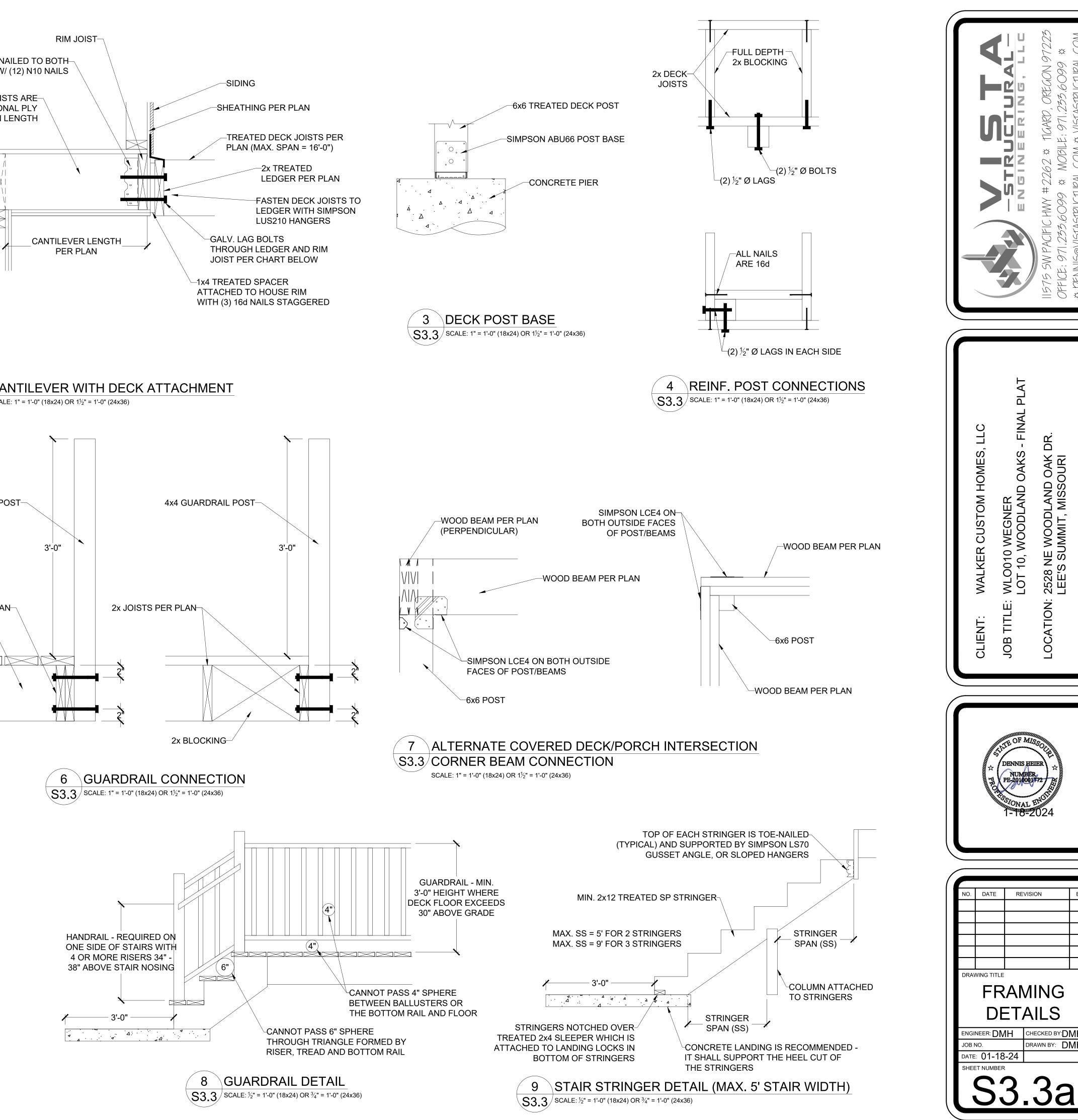
	SPACING (INCHES O.C.)							
HEIGHT (FT.)	24	16	12	8				
SUPPORTING A ROOF ONLY								
10 OR LESS	2x4	2x4	2x4	2x4				
12	2x6	2x4	2x4	2x4				
14	2x6	2x6	2x6	2x4				
16	2x6	2x6	2x6	2x4				
18	DR	2x6	2x6	2x6				
20	DR	DR	2x6	2x6				
SUP	PORTING O	NE FLOOR /	AND A ROO	F				
10 OR LESS	2x6	2x4	2x4	2x4		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

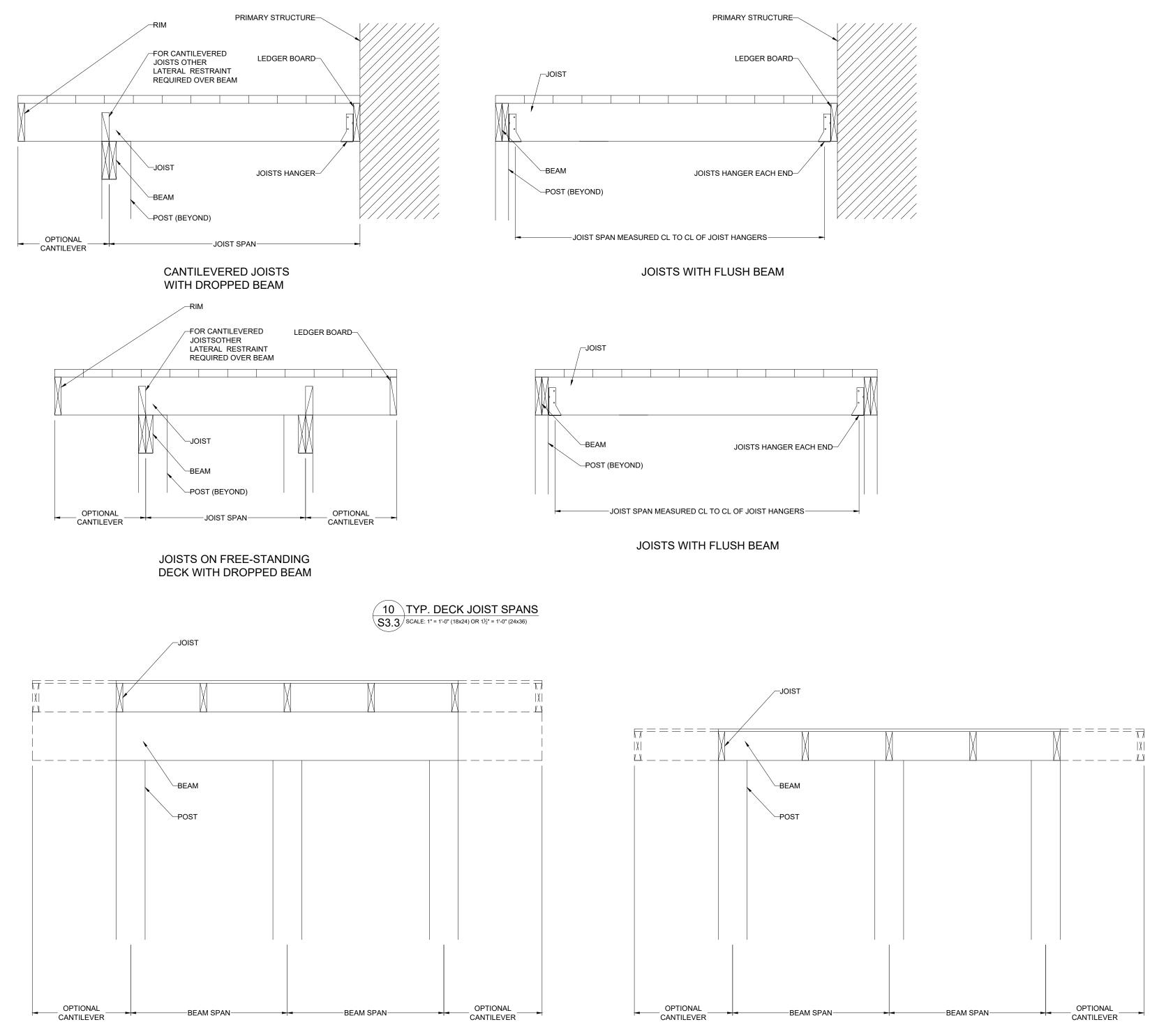










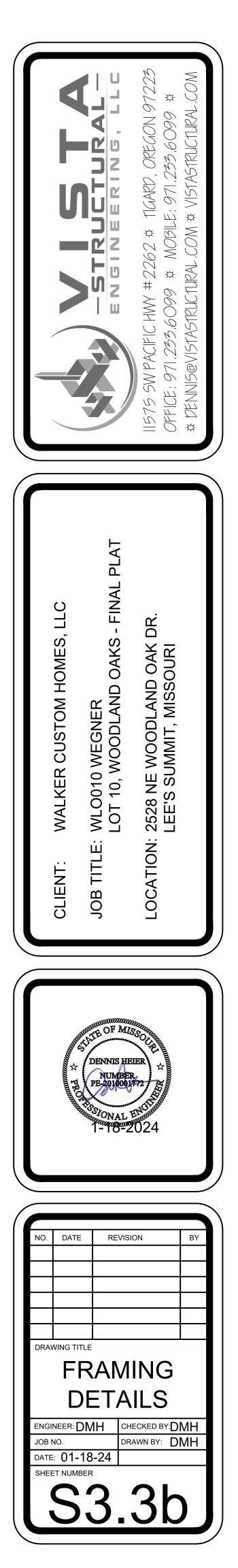


DROPPED BEAM

11 TYP. DECK JOIST SPANS S3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



FLUSH BEAM





To whom it may concern,

This is regards to condition related to address 2528 NE Woodland Oak Cir Permit 20240530. In regards to floor truss coverage application. We plan to sheetrock the underside of all unfinished spaces per Lee's Summit code.

Thanks

Jason Walker

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 02/13/2024