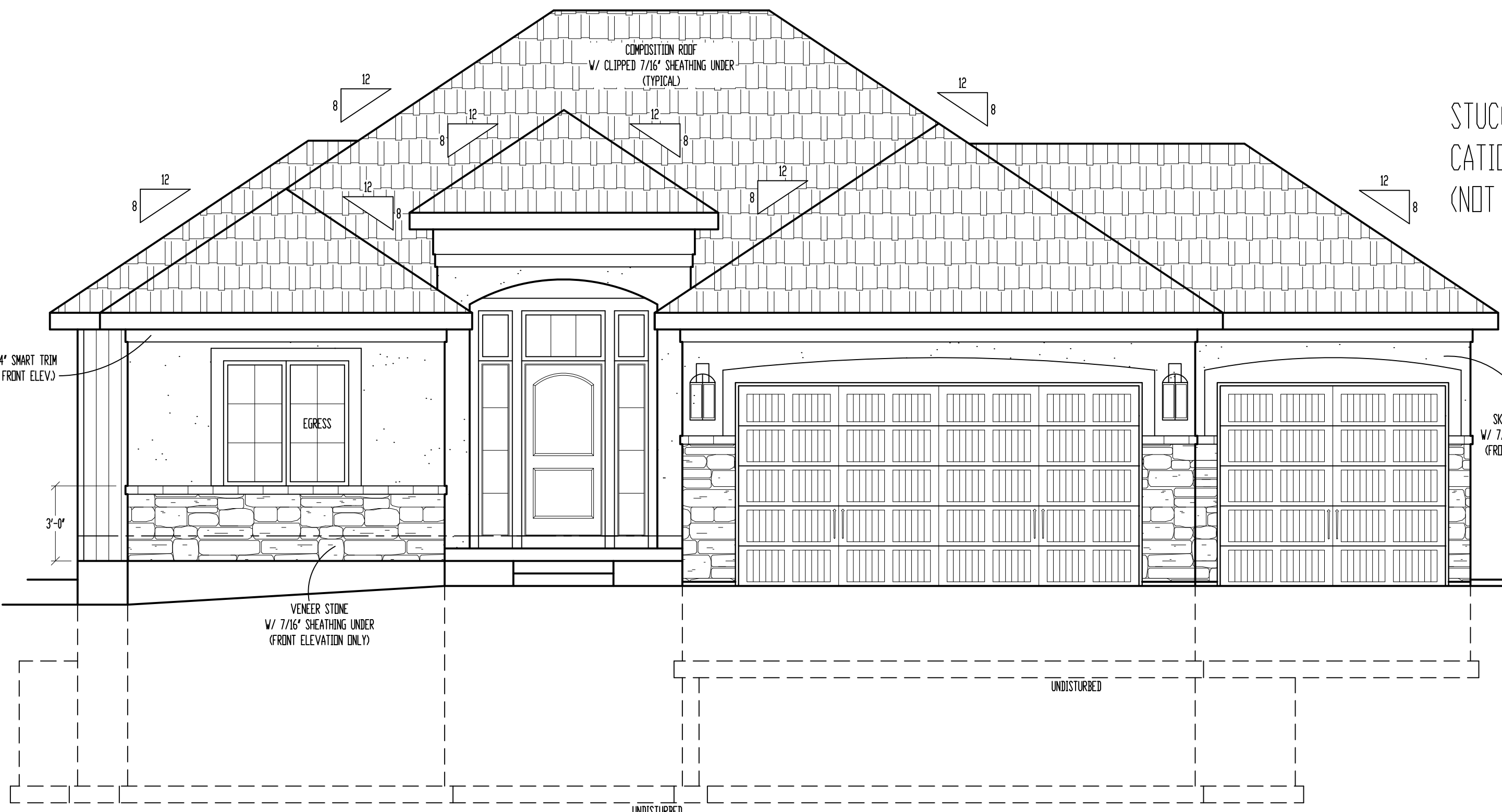
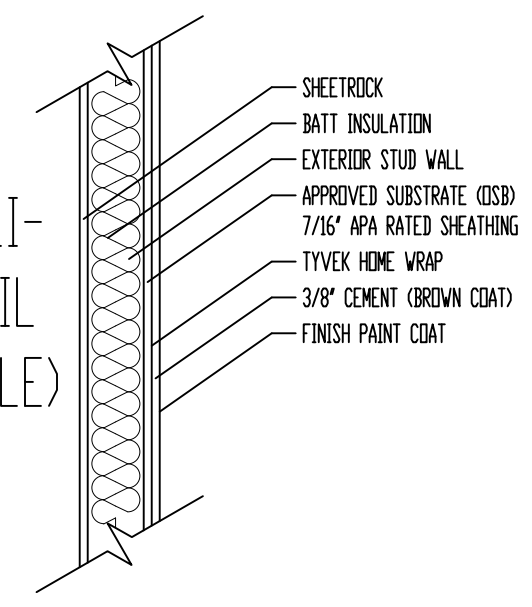


6' X 5/4" SMART TRIM
(TYP. @ FRONT ELEV.)



STUCCO APPLI-
CATION DETAIL
(NOT TO SCALE)

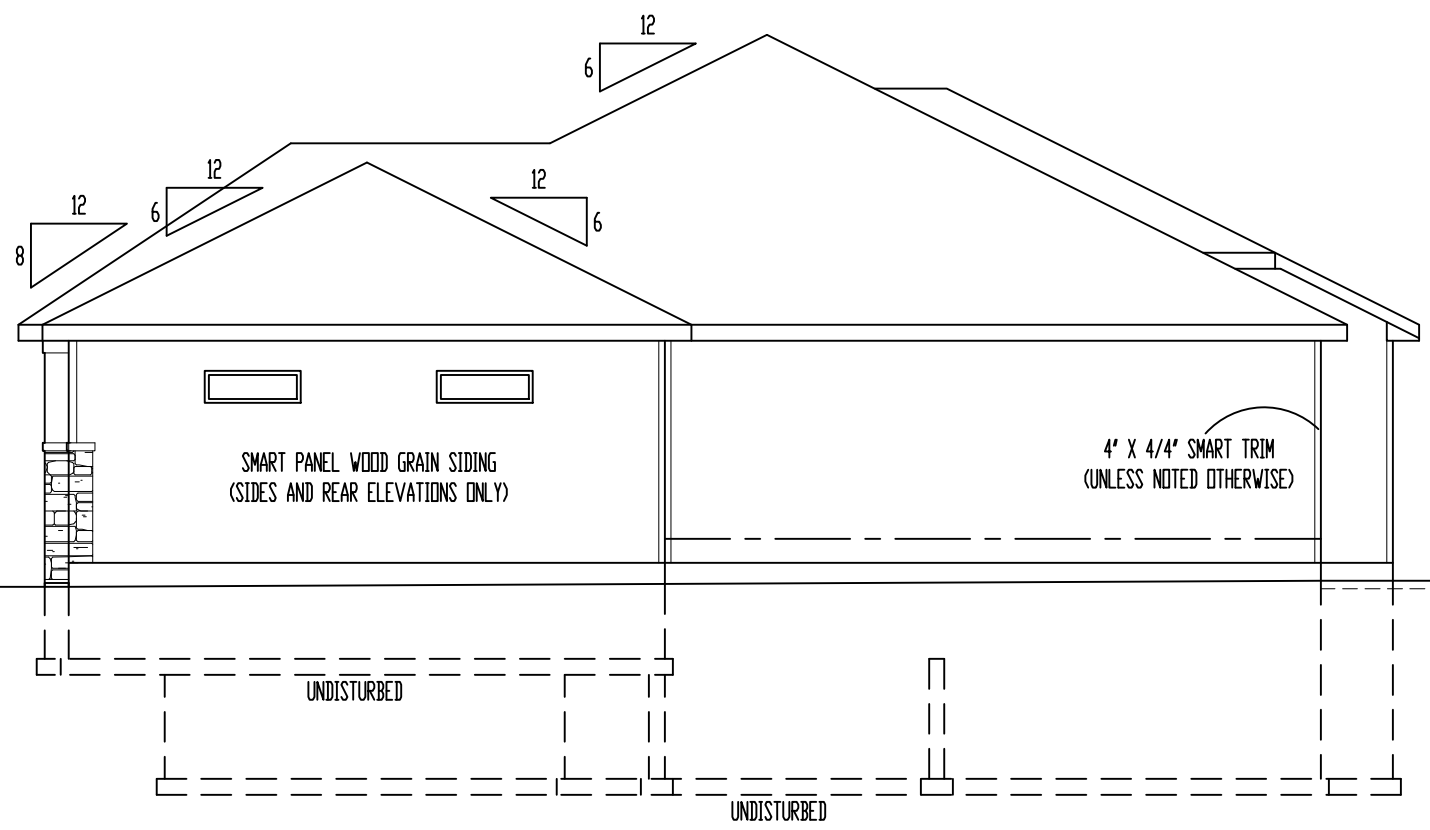


VENEER STONE
W/ 7/16\"/>

SKIP-TROVEL STUCCO
W/ 7/16\"/>

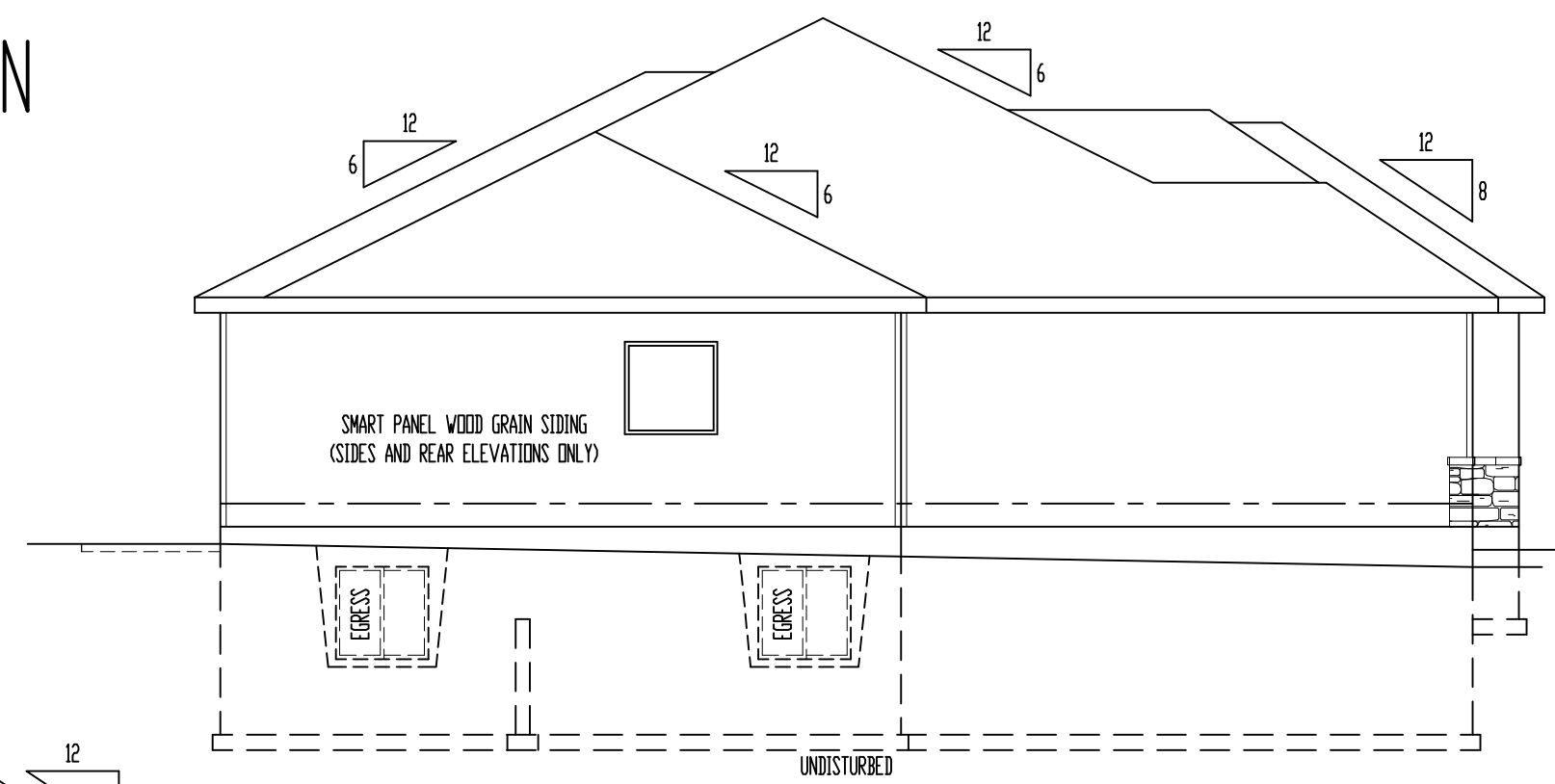
FRONT ELEVATION

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



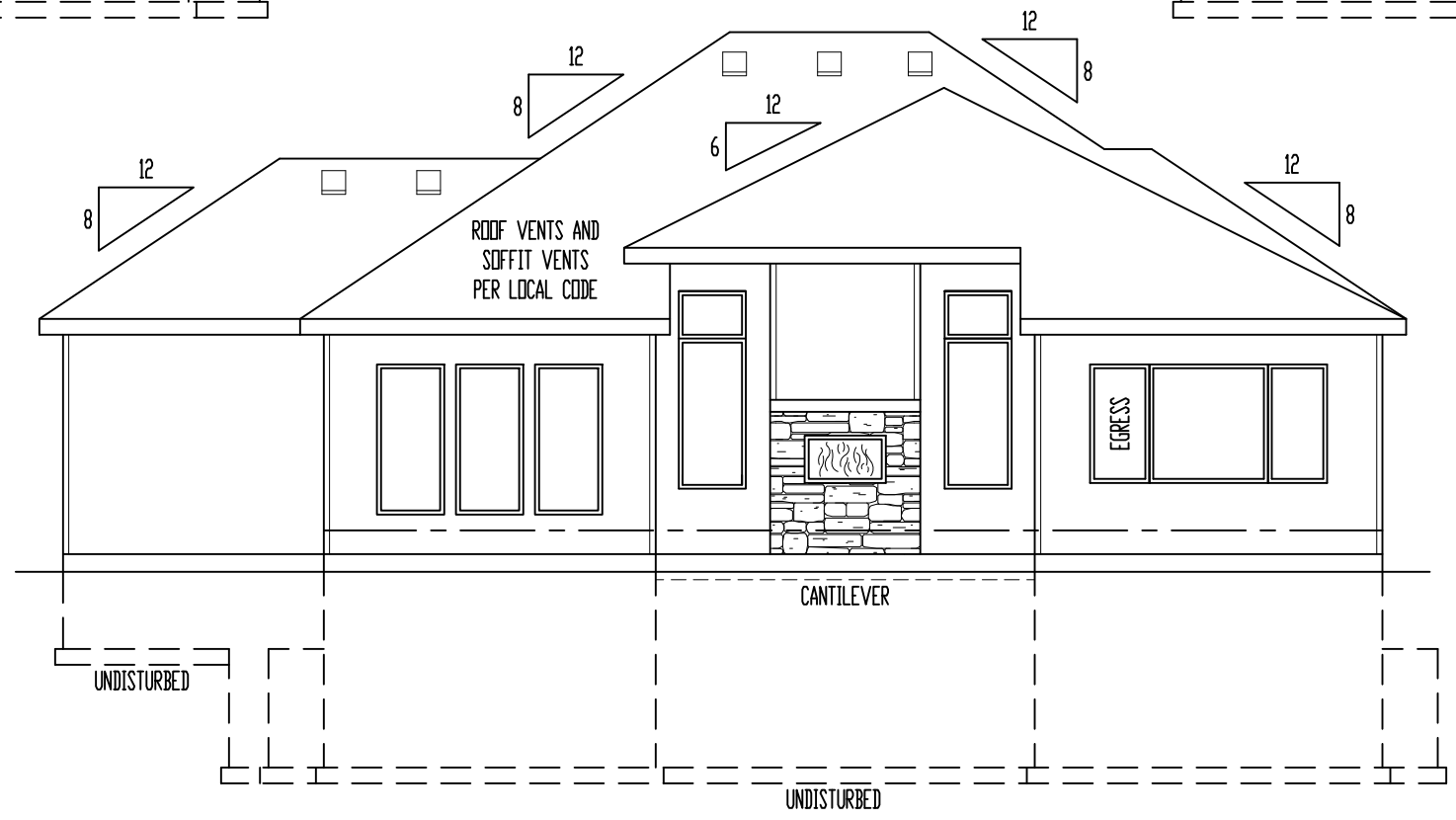
RIGHT ELEVATION

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



LEFT ELEVATION

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



REAR ELEVATION

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

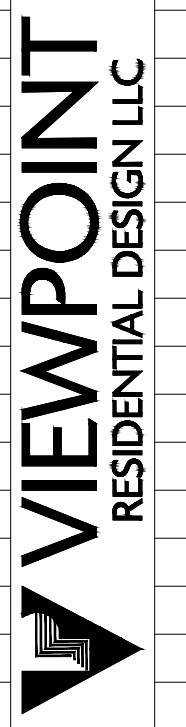
ELEVATIONS:
SMART PANEL WOOD GRAIN SIDING ON SIDES AND REAR ELEVATIONS
COMPOSITION ROOF SHINGLES
LOCATE ROOF AND SOFFIT VENTS PER CODE
ADJUST FOUNDATION TO GRADE

OPTIONAL DECK:
DECK CONSTRUCTION TO COMPLY WITH MUNICIPALITY'S
RESIDENTIAL DECK STANDARDS
2" X 10" #2 TTD. @ 16" O.C. FLOOR JOISTS (MAX SPAN: 14'-0")
2" X 6" TTD. DECKING
6" X 6" TTD. POSTS
2" X 2" TTD. SPINDLES
2" X 6" TTD. TOP RAIL
DETERMINE OPTIONAL STAIRS ON SITE

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/24/2021

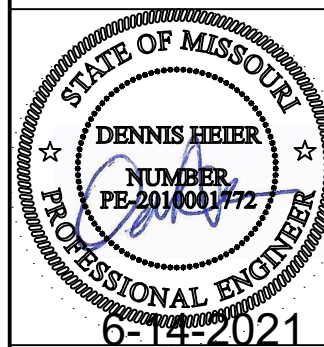
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"For God so loved the world, that he gave his only begotten Son, that whosoever believeth in him should not perish, but have everlasting life" (John 3:16)



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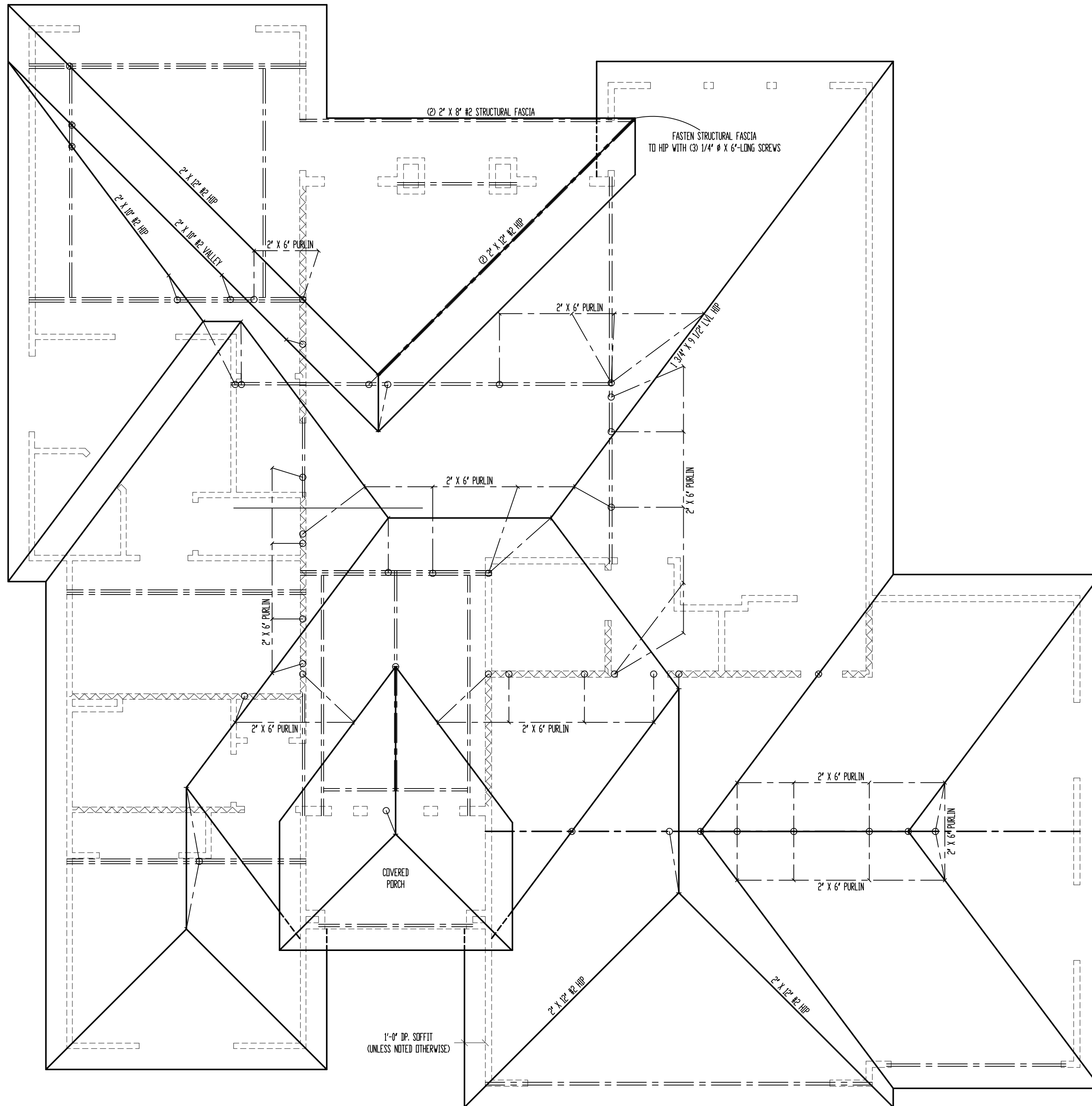
Design Title:
The OAKWOOD
Site Description:
Lot 300, Park Ridge 6th Plat
Street Address:
1912 NE Park Ridge Dr., Lee's Summit, Missouri
General Contractor:
Walker Custom Homes, LLC



Date: 6-18-AD 2021
Rev. 1:
Rev. 2:
Rev. 3:

Sheet Title:
ELEVATIONS

Sheet No.:
A-1 of 4



ROOF

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

*ALL RAFTERS SHALL BE 2" X 6" #2 @ 16" O.C., UNLESS NOTED OTHERWISE.
SEE DETAIL 7/S32 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:
ROOF DESIGNED FOR LIGHT ROOF COVERING
30psf TOTAL LOAD (10psf DL, 20psf LL (SL))

* RAFTERS (HEM-FIR, DOUG-FIR, OR EQUAL):
SEE SPAN CHARTS BELOW

CODE MINIMUM		
RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24" O.C.	11'-7"
#2-2x6	@16" O.C.	14'-2"
#2-2x8	@24" O.C.	14'-8"
#2-2x8	@16" O.C.	17'-11"
#2-2x10	@24" O.C.	17'-10"
#2-2x10	@16" O.C.	21'-11"

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

HIGHER PERFORMANCE (RECOMMENDED)		
RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24" O.C.	8'-6"
#2-2x6	@16" O.C.	9'-9"
#2-2x8	@24" O.C.	11'-3"
#2-2x8	@16" O.C.	12'-9"
#2-2x10	@24" O.C.	14'-3"
#2-2x10	@16" O.C.	16'-3"

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

- * VAULTS TO BE 2x10 DEPTH
- * RIDGE BOARDS ARE (UNLESS OTHERWISE NOTED)
 - #2- 2x8 UP TO 10/12 PITCH
 - #2- 2x10 OVER 10/12 PITCH
- * ALL HIP & VALLEYS ARE (UNLESS OTHERWISE NOTED)
 - #2- 2x8 UP TO 10/12 PITCH
 - #2- 2x10 OVER 10/12 PITCH
- * PURLINS ARE 2x6 MIN.
 - PURLIN STRUTS ARE AT 4'-0" O.C.
 - PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL
 - ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0"
 - PURLINS STRUTS SHALL BE CONSTRUCTED IN A "T" CONFIGURATION AND PER THE FOLLOWING CHART:

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

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

- * VERTICAL BRACE IF DOT IS UNDER HIP OR VALLEY
- * SLASH IS TOP END OF BRACE (/), DOT IS BOTTOM OF BRACE (.)
- * DENOTES BEARING WALL
- * DENOTES ROOF BRACE
- * DENOTES PURLIN
- * DENOTES BEARING STRUCTURE

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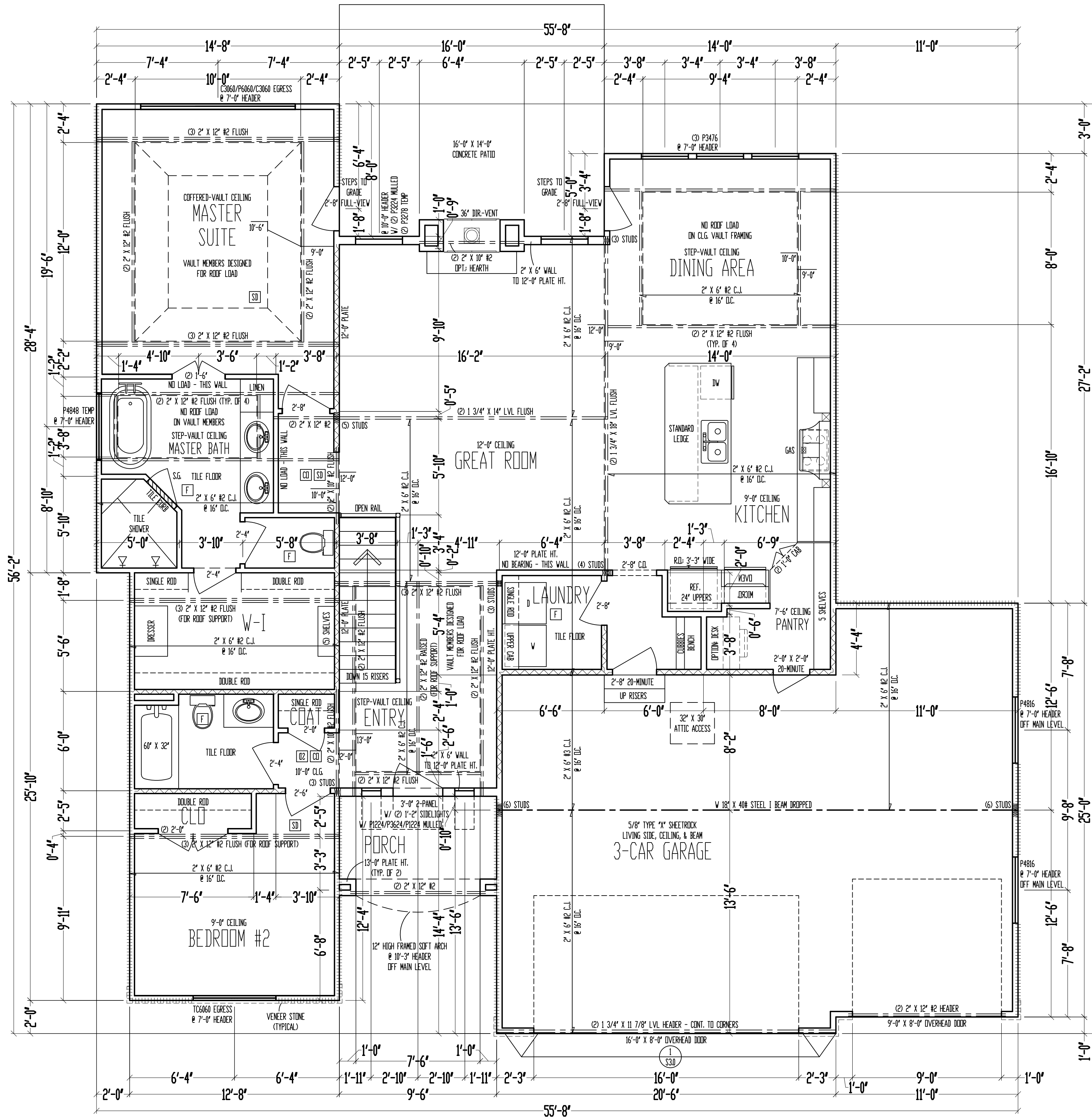
Design Title:
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 Site Description:
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 Street Address:
1912 NE Park Ridge Dr., Lee's Summit, Missouri
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 Rev. 1:
 Rev. 2:
 Rev. 3:

Sheet Title:
ROOF PLAN

Sheet No.:



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

MAIN LEVEL: 1698 SQ. FT.
 LOWER LEVEL: 936 SQ. FT.
 TOTAL: 2634 SQ. FT.
 GARAGE: 717 SQ. FT.
 UNFIN. BASEMENT: 604 SQ. FT.

- FRAMING NOTES**
1. HOME IS SHEATHED 1/2" 7/16" D.S.B. APA PANELS W/ 8d COMMON NAILS @ 4" O.C. AT EDGES & @ 12" O.C. IN THE FIELD. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 2. // // // // = G.B. 1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ 1 1/4" TYPE W DR S DRYWALL SCREWS @ 7" O.C. EDGES & FIELD. MIN. 8'-0" SECTIONS ONE SIDE OF WALL (OR) MIN. 4'-0" SECTION FOR BOTH SIDES.
 3. / / / / / / / / / / = LOAD BEARING INTERIOR WALL.
 4. (2) 2" X 10" #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
 5. L.W. TIES @ 4'-0" O.C. (TYPICAL)
 6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS.
 7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS).
 8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS.
 9. ALL DESIGNATED 2" X 6" WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW OPENINGS.
 10. ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE.
 11. ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2" X 4'S @ 16" O.C., UNLESS NOTED OTHERWISE.
 12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS @ 8" O.C. MAX. (WHERE APPLICABLE.)

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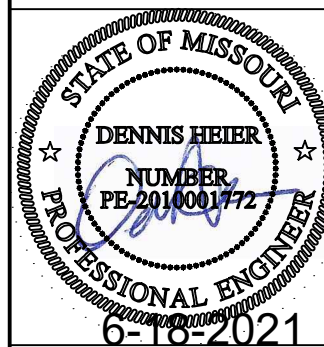
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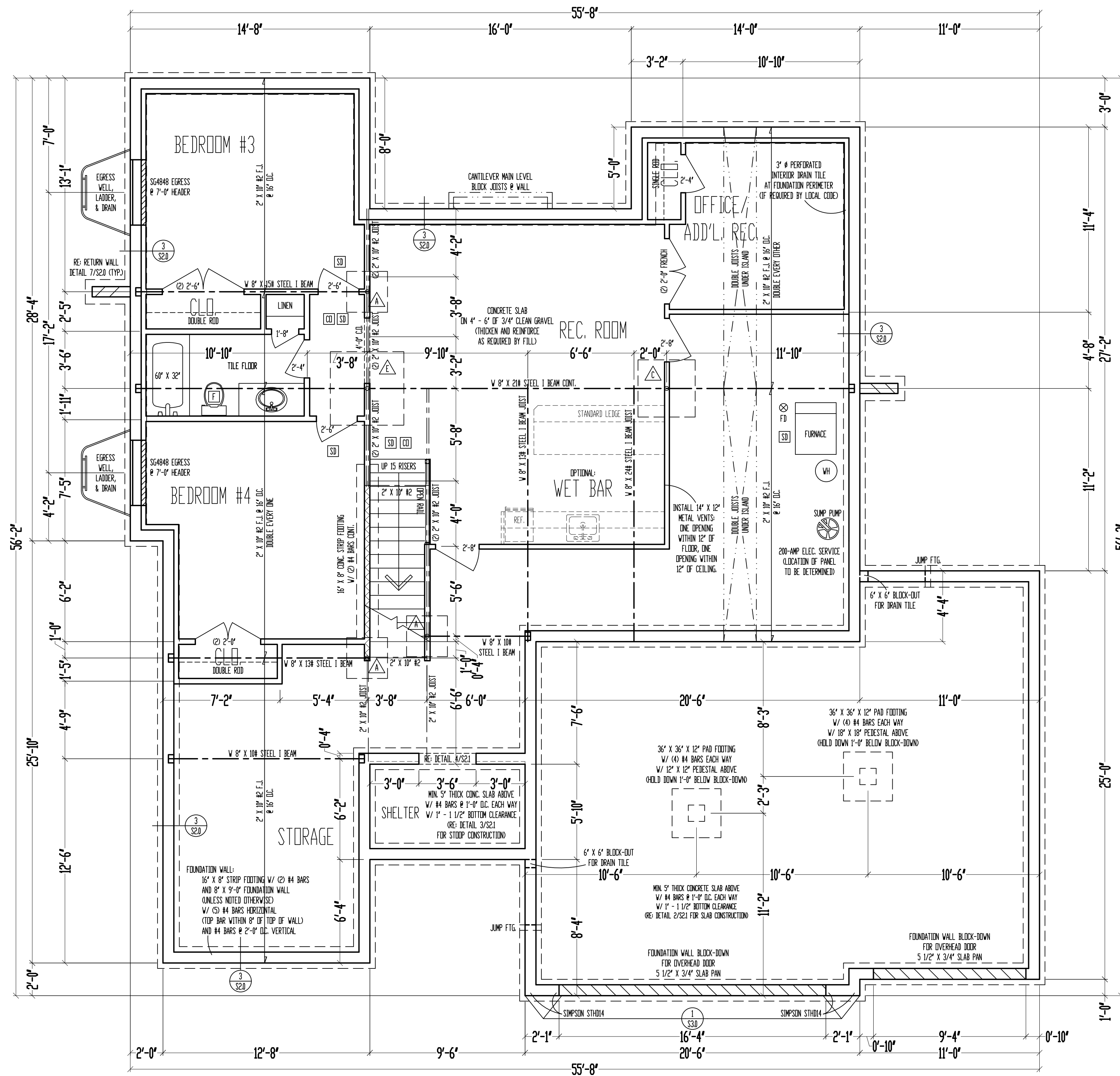


Date: 6-18-AD 2021
 Rev. 1:
 Rev. 2:
 Rev. 3:

Sheet Title:
MAIN LEVEL PLAN

Sheet No.:

PLEASE FOR CONSTRUCTION REVIEW DEVELOPMENT DEPARTMENT LEE'S SUMMIT, MISSOURI
AS
 06/24/2021



FRAMING NOTES

- BASEMENT LEVEL EXTERIOR WOOD-FRAMED WALLS SHALL BE SHEATHED W/ 7/16" D.S.B. APA PANELS W/ 84 COMMON WALLS @ 6' O.C. AT EDGES & @ 12' O.C. IN THE FIELD. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- ===== = GD: 1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ NO. 6 - 1 1/4" TYPE W OR S DRYWALL SCREWS @ 7" O.C. EDGES & FIELD. (MIN. 8'-0" SECTIONS ONE SIDE OF WALL (OR MIN. 4'-0" SECTION FOR BOTH SIDES))
- ////////// = LOAD BEARING INTERIOR WALL.
- (2) 2" X 10" #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
- LDW TIES @ 4'-0" O.C. (TYPICAL)
- RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS.
- BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS).
- PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS.
- ALL DESIGNATED 2" X 6" WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW OPENINGS.
- ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE.
- ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2" X 4'S @ 16" O.C., UNLESS NOTED OTHERWISE.
- 1/2" # ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" O.C. MAX. & WITHIN 6" - 12" OF END OF EACH PLATE LENGTH.
- NEW FOUNDATION SHALL BEAR ON ORIGINAL SOIL WITH MINIMUM BEARING CAPACITY OF 1500 PSF. A GEOTECHNICAL 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 AFOREMENTIONED REQUIREMENTS.

FOUNDATION WALLS
FOUNDATION
SCALE: 1/4" = 1'-0"
LOWER LEVEL: 1000 SQ. FT.

STEEL COLUMN & PAD FOOTING SCHEDULE	
A	3" X 11 GA. STEEL COLUMN ON 30" X 30" X 12" PAD FOOTING W/ (5) #4 BARS EACH WAY (12.5K)
B	3 1/2" X 11 GA. STEEL COLUMN ON 36" X 36" X 12" PAD FOOTING W/ (6) #4 BARS EACH WAY (18.0K)
C	3" SCH. 40 STEEL COLUMN ON 42" X 42" X 14" PAD FOOTING W/ (7) #4 BARS EACH WAY (24.5K)
D	3 1/2" SCH. 40 STEEL COLUMN ON 48" X 48" X 16" PAD FOOTING W/ (8) #4 BARS EACH WAY (32.0K)
E	3 1/2" SCH. 40 STEEL COLUMN ON 54" X 54" X 16" PAD FOOTING W/ (9) #4 BARS EACH WAY (40.5K)
F	3 1/2" SCH. 40 STEEL COLUMN ON 60" X 60" X 18" PAD FOOTING W/ (10) #4 BARS EACH WAY (50.0K)

PIER FOOTING SCHEDULE	
G	12" Ø PIER FTG.
H	16" Ø PIER FTG.
J	18" Ø PIER FTG.
K	24" Ø PIER FTG.

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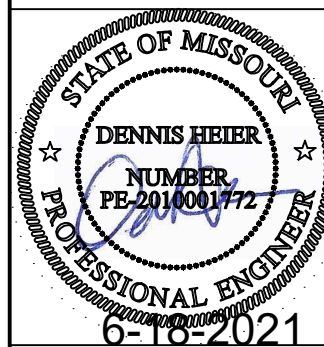
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Date: 6-18-AD 2021
 Rev. 1:
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Sheet Title:
FOUNDATION PLAN

Sheet No.:

PLEASE FOR CONSTRUCTION REVIEW DEVELOPMENT OF 4 OF 4 LEE'S SUMMIT, MISSOURI

06/24/2021

RESIDENTIAL SEISMIC & WIND ANALYSIS

DETERMINE WEIGHT OF HOUSE:

LOCATION	DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (lbs.)
ROOF	10	2703	27030
CEILING	10	2703	27030
FIRST FLOOR	10	2703	27030
FIRST FLOOR EXT. WALL DL	WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)
	223.68	10	22368
FIRST FLOOR INT. PARTITION WALL DL	DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (lbs.)
	6	2703	16218

PROJECTED AREAS (WIND DESIGN PER 115 MPH 3-SECOND GUST, EXPOSURE C AND MEAN ROOF HEIGHT <= 30 FT ASSUMED)			
FRONT-TO-BACK		SIDE-TO-SIDE	
AREA	LOAD	AREA	LOAD
246	2063	502	4268
VERT. ROOF	2113	VERT. ROOF	0
1ST	612.37	1ST	617.87
CUMULATIVE		CUMULATIVE	
11895		12018	
PRESSURE (PSF) - PER ASCE CH. 6			
SLOPED ROOF	ZONE B	ZONE C	11.3
WALL/VERT. ROOF	ZONE A	ZONE D	7.7
MEAN ROOF HT., h	24		2a (FIG. 28.6-1, ASCE7)
			11.134

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

1ST FLOOR TRIBUTARY WEIGHT
 S_s (SITE GROUND MOTION - %g - FROM ASCE7 SEISMIC MAP)
 F_a (from ASCE7 Table 11.4-1)
 $S_{ps} (= 2/3 * S_s * F_a)$
 R (from ASCE7 Table 12.2-1)

65244
12.0%
1.6
0.128
6.5

SEISMIC SHEAR				
LOCATION	From ASCE7 (Eq. 12.8-1):			V (= 1.2 * S _{ps} * W / R) (lbs.)
1ST FLOOR				1542
Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Shear (#/LF)	Code Reference
Exterior (Option #1)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 6" O.C. Edges, 8" O.C. Field For 24" stud spacing, 12" O.C. Field For 16" stud spacing	155	per IRC, Table 2306.3(1)
Exterior (Option #2)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 6" O.C. Edges, 8" O.C. Field For 24" stud spacing, 12" O.C. Field For 16" stud spacing	230	per IRC, Table 2306.3(1)
Exterior (Option #3)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 6" O.C. Edges, 8" O.C. Field For 24" stud spacing, 12" O.C. Field For 16" stud spacing	310	per IRC, Table 2306.3(1)
Exterior (Option #4)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 4" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	220	AF&PA SDPWS Table 4.3A
Exterior (Option #5)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	320	AF&PA SDPWS Table 4.3A
Exterior (Option #6)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing and double studs at each panel edge	8d Common Nails w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C. Field	410	AF&PA SDPWS Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 1 1/4" Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field	60	per IRC, Table 2306.4.4
Interior	16 Ga. Simpson/USP Type WB Steel X-Brace (or equal)	(3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacturer specifications - see detail on sheet S3)	325	

EXTERIOR SHEATHING OPTION FOR FIRST FLOOR	5
EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS	5

WIDTH OF 1ST STORY (FT.)	55.67
DEPTH OF 1ST STORY (FT.)	56.17
BACK WALL OF GARAGE (FT.)	20.5
GAR. WALL: 1=F-B, 2=S-S	2

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

	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	26600	28	10640	70	37240	28	14896

1ST FLOOR FRONT-TO-BACK	ADDITIONAL RESISTANCE REQUIRED		Anchor Bolt Spacing (in.)		16d Nail Spacing req'd at bottom plate (in.)	
	SEISMIC	WIND	diameter (in.)	Shear value (per NDS)	1st Floor F-B	1st Floor S-S
1ST FLOOR FRONT-TO-BACK	0	0	0.5	944	26	25
1ST FLOOR SIDE-TO-SIDE	0	0	171.2	171.2		
BASEMENT FRONT-TO-BACK	0	0	167.9	167.9		
BASEMENT SIDE-TO-SIDE	0	0				

	RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS**						OK?
	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)	
1ST FLOOR FRONT-TO-BACK	0					0	YES
1ST FLOOR SIDE-TO-SIDE	0					0	YES

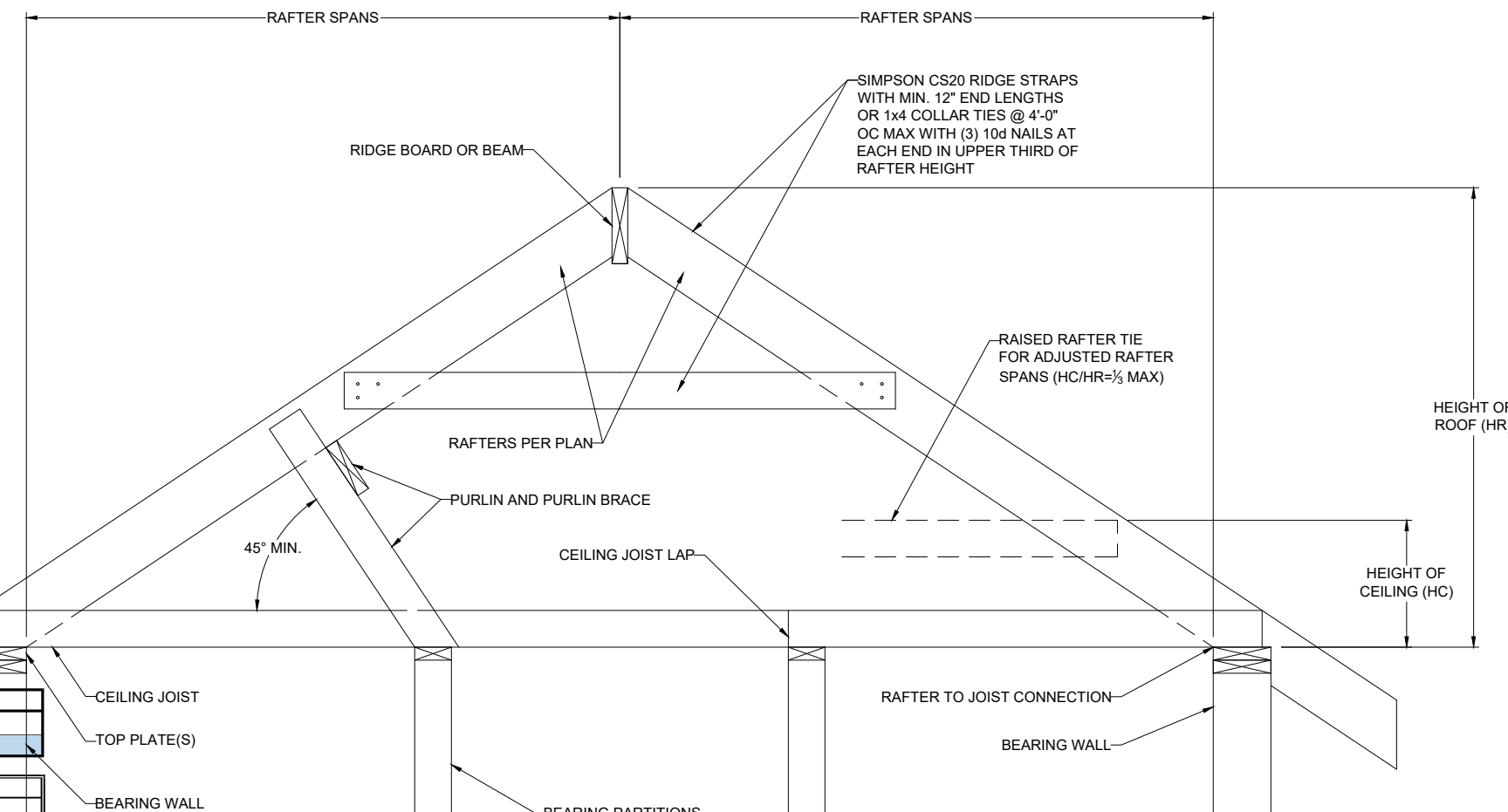
**NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE).
 2) SEE SHEET S1 FOR INTERIOR STEEL X-BRACE INSTALLATION, 3) INTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SAME STAPLE/NAILING PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE TABLE ABOVE) AND ARE ONLY APPLICABLE FOR FULL-HEIGHT SECTIONS OF 2'-8" OR LONGER
ALL LATERAL BRACING ACHIEVED AT EXTERIOR WALLS AND WALLS DIRECTLY ON FOUNDATIONS; THEREFORE, NO INTERIOR BRACING PER 2012 IRC SECTION R502.2.1 IS REQUIRED

WIND UPLIFT ANALYSIS							
ROOF PITCH (MAX)	X/12	DEGREES	PITCH OF 6 OR LESS: EOH -13.3, E -7.2, G -5.2				
ASCE 7							
OVERHANG	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)			
	1	-1.08	225.68	-1.08			
MAIN ROOF**	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)
	3126.9839	-451.327824	3578.311724	-1.08	-0.36	-801	-3.6
*ALONG PERIMETER	TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)				UPLIFT OK		
**INSIDE EXTERIOR WALLS	-4.7				251.6		

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

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

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



Combustion Air Calculation
 Per 2012 IRC Section G2407.5

- Appliance #1
- Appliance #2
- Appliance #3

Furnace
 Water Heater

100000 BTU/h
 BTU/h
 50000 BTU/h

Total BTU/h BRACED RAFTER CONSTRUCTION
 S1.1 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

150000 BTU/h

Area of Combined Space (floor where appliances are located)
 Ceiling Height in Usable Space

935 ft²
 8.5 ft

Note: Per 2012 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? **Yes**
 If Yes, what is the area of open space adjacent to appliance area? **0**

Per 2012 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 ft³**

Required combined area: **882 ft²**

Area of Combined Space > Required combined area? **OK**

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.

Minimum required opening area: **150 in²**
 Minimum grill size: **14 x 11 (inches)**
 Note: two grills required - one within 12" of floor, one within 12" of clg.

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CLIENT: WALKER CUSTOM HOMES, LLC
 JOB TITLE: PKR300 SPEC
 LOT 300, PARK RIDGE 6TH PLAT
 LOCATION: LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
 DENNIS HIEBER
 NUMBER: PE-201400172
 PROFESSIONAL ENGINEER
 06-14-2021

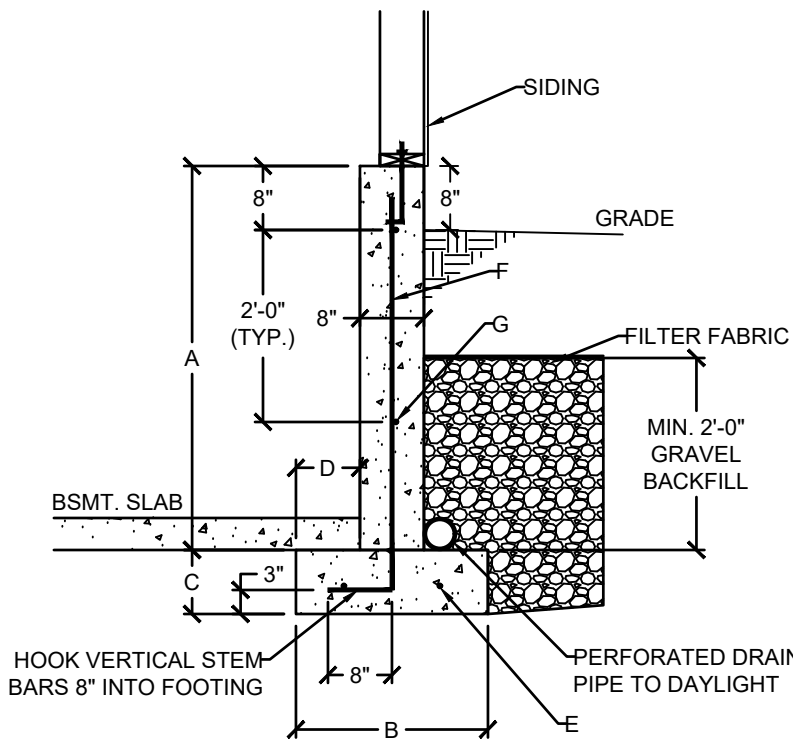
NO.	DATE	REVISION	BY

DRAWING TITLE
STRUCTURAL CALCULATIONS

ENGINEER: DMH CHECKED BY: DMH
 JOB NO. 3568 DRAWN BY: DMH
 DATE: 06-14-21
 SHEET NUMBER

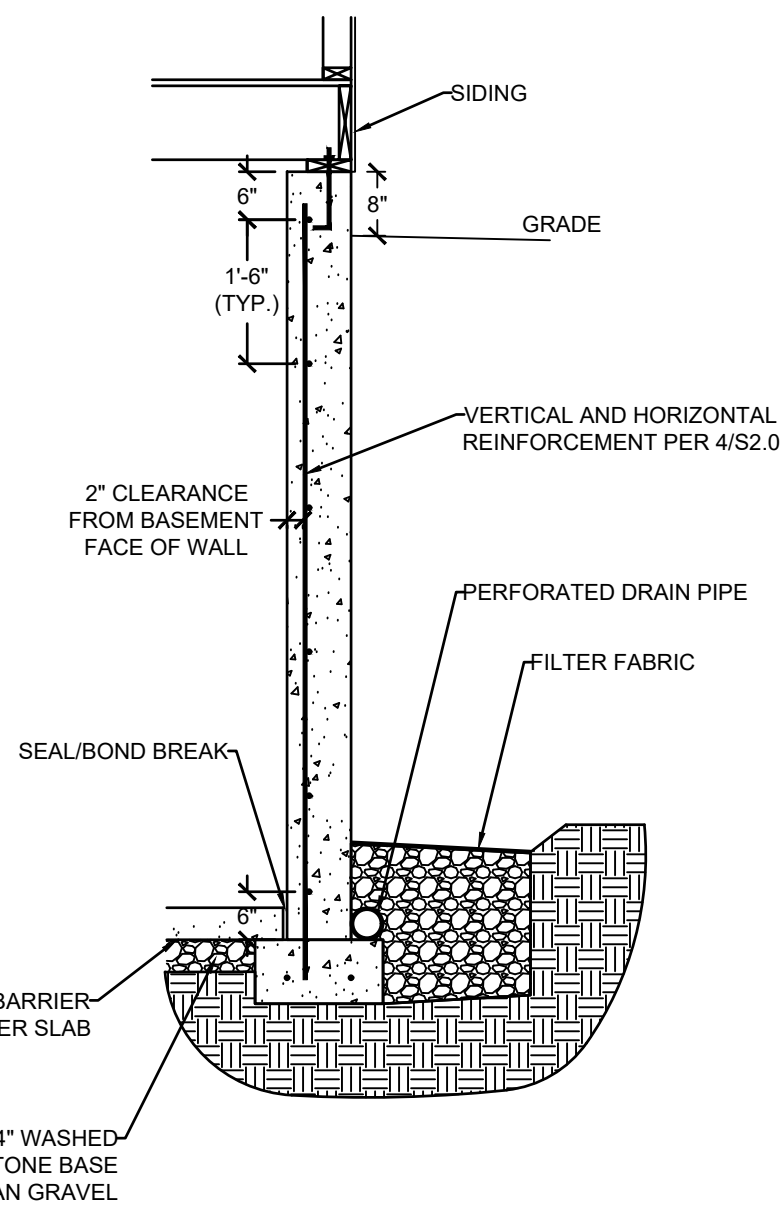
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RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 06/24/2021

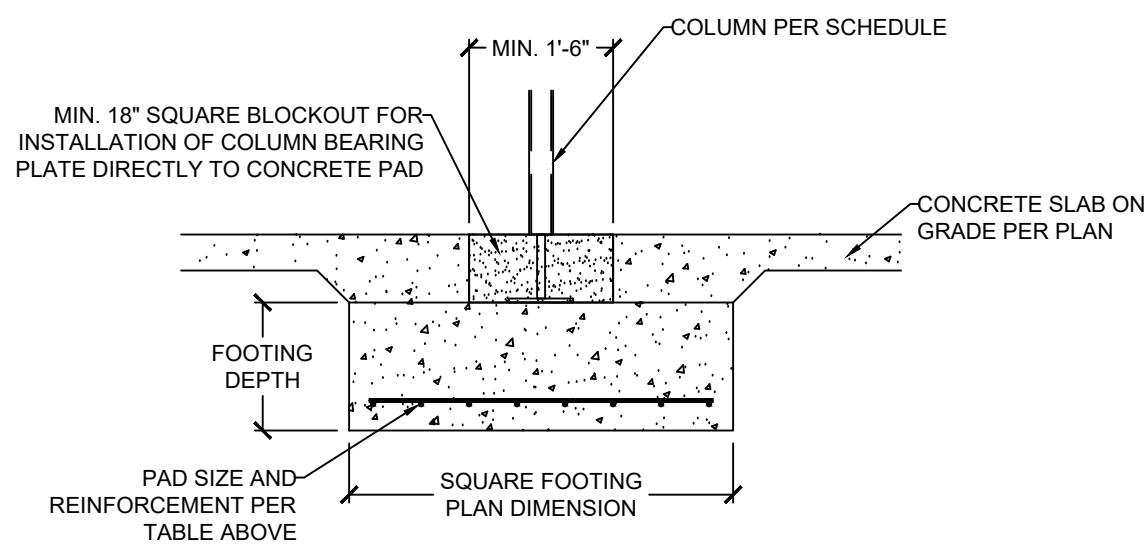


1 DAYLIGHT WALL CONSTRUCTION
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

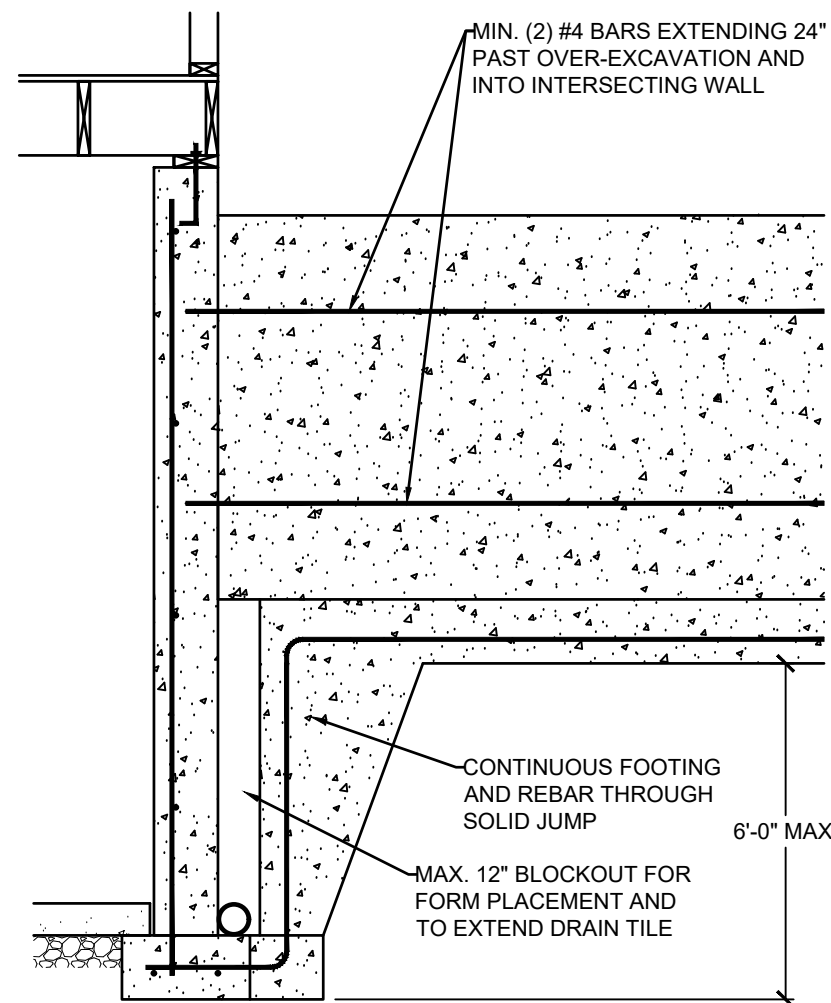
DAYLIGHT BASEMENT WALL SCHEDULE						
A	B	C	D	E	F	G
4'-0"	1'-6"	0'-8"	0'-5"	(2) #4	#4 VERT. @ 12" O.C.	(2) #4 HORIZ.
5'-0"	2'-0"	0'-8"	0'-7"	(2) #4	#4 VERT. @ 12" O.C.	(3) #4 HORIZ.
6'-0"	2'-6"	0'-8"	0'-10"	(3) #4	#4 VERT. @ 12" O.C.	(3) #4 HORIZ.



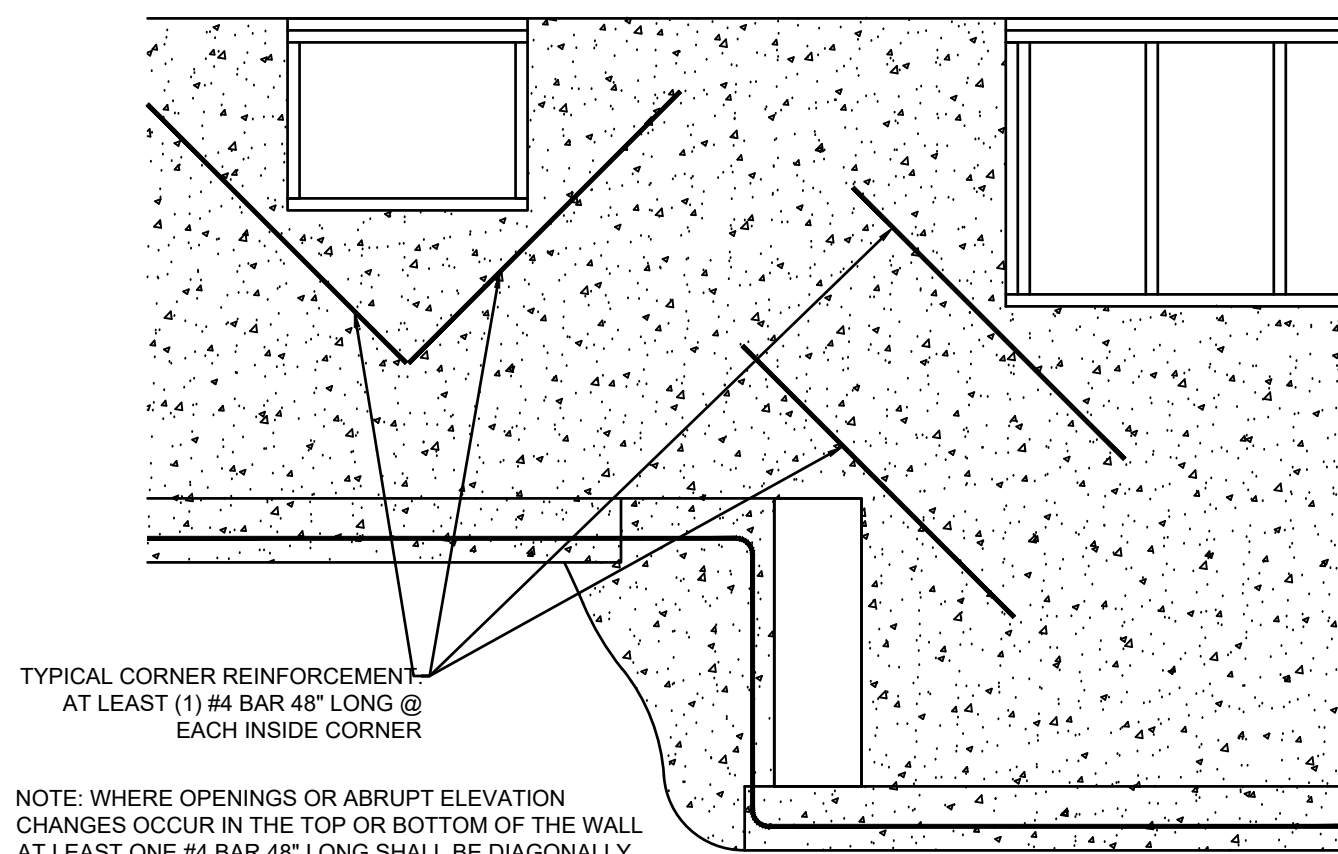
3 CONCRETE WALL SECTION
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



2 COLUMN AND BEARING PAD SCHEDULE
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

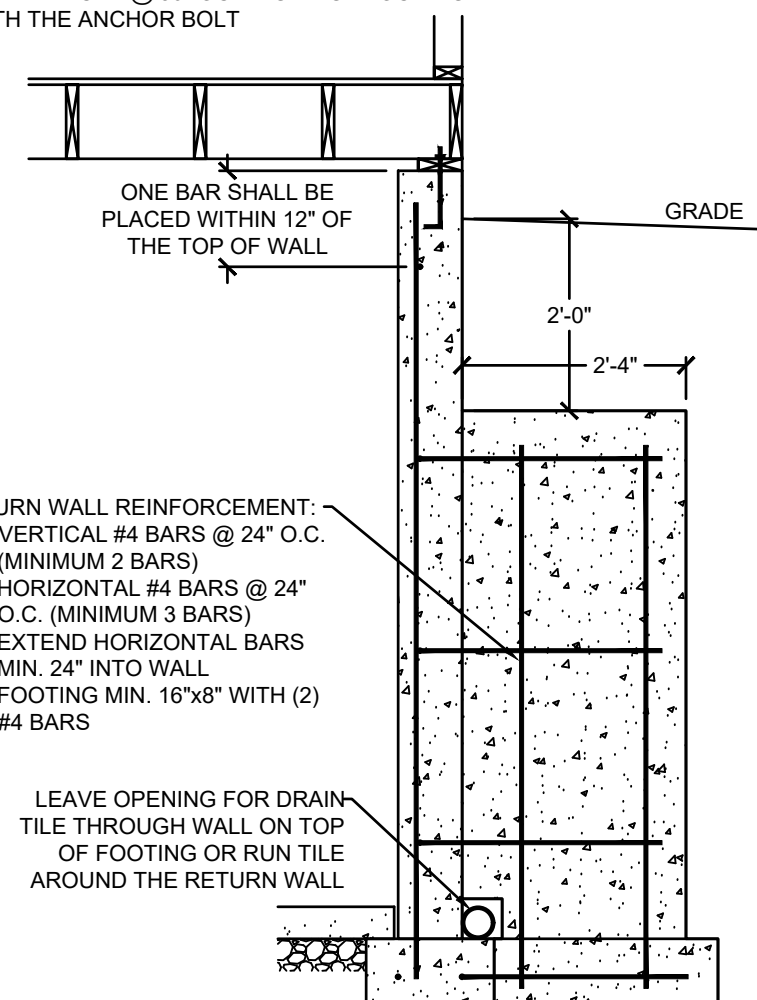


5 SOLID JUMP
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

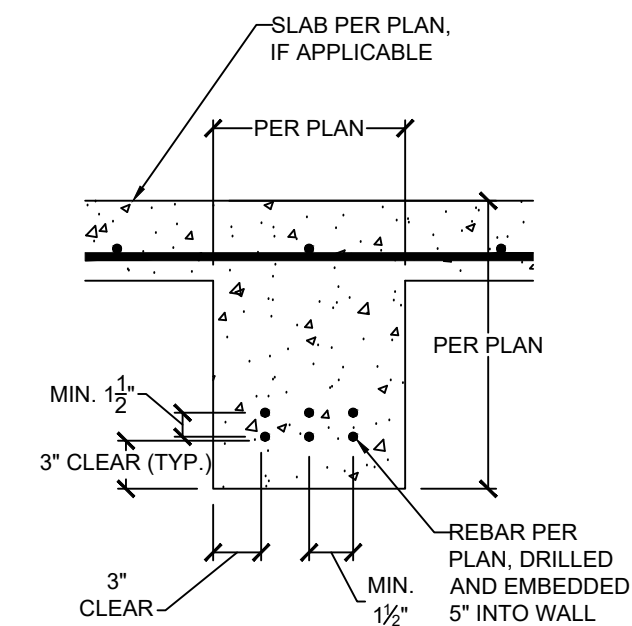


6 REINFORCEMENT AT OPENING CORNERS AND STEP CORNERS @ INSIDE CORNERS
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

NOTE: WHERE FLOOR JOIST RUNS PARALLEL TO FDN WALL, SOLID BLOCK OUTSIDE 3 JOIST SPACES @ 36" OC ALIGNING BLOCKING WITH THE ANCHOR BOLT



7 RETURN WALL DETAIL
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



8 CONCRETE GRADE BEAM
S2.0 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

CONCRETE STRENGTH/GRADE REINFORCEMENT (#4 BARS)	8" THICK WALL			10" THICK WALL		
	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

- FOOTNOTES:
- WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB
 - VERTICAL REINFORCEMENT FOR CONCRETE WALLS THAT ARE NOT FULL HEIGHT, AND FOR REINFORCEMENT SPACING 24" OC, REINFORCEMENT MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS SHALL HAVE VERTICAL REINFORCEMENT AS FOLLOWS:
 - 8" WALL - MINIMUM 5" FROM THE OUTSIDE FACE
 - 10" WALL - MINIMUM 6 3/4" FROM THE OUTSIDE FACE
 - EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL
 - REINFORCEMENT CLEARANCES:
 - CONCRETE EXPOSED TO EARTH - MINIMUM 1 1/2"
 - NOT EXPOSED TO WEATHER (INTERIOR SIDE OF WALLS) - 3/4"
 - CONCRETE EXPOSED TO WEATHER (TOP CLEARANCE IN GARAGE AND DRIVEWAY SLABS) - 1 1/2"
 - HORIZONTAL REINFORCEMENT:
 - ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL
 - OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" OC
 - HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR) AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE)
 - SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE (1) #4 BAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE CORNERS.
 - REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND CORNERS.
 - AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3 1/2". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL. FOR WALL THICKNESSES LESS THAN 4" PROVIDE #4 BARS AT MAX. 24" OC TO WITHIN 8" OF THE TOP OF THE WALL.
 - STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16 FEET LONG SHALL BE PROVIDED WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS
 - WALL SHALL NOT BE BACKFILLED UNTIL FLOOR SYSTEM AND DIAPHRAGM ARE IN PLACE

4 FOUNDATION WALL REINFORCEMENT TABLE
S2.0 NO SCALE

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JOB TITLE: PKR300 SPEC
LOT 300, PARK RIDGE 6TH PLAT
LOCATION: LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
DENNIS HEIER
NUMBER: PE-2014001772
PROFESSIONAL ENGINEER
06-14-2021

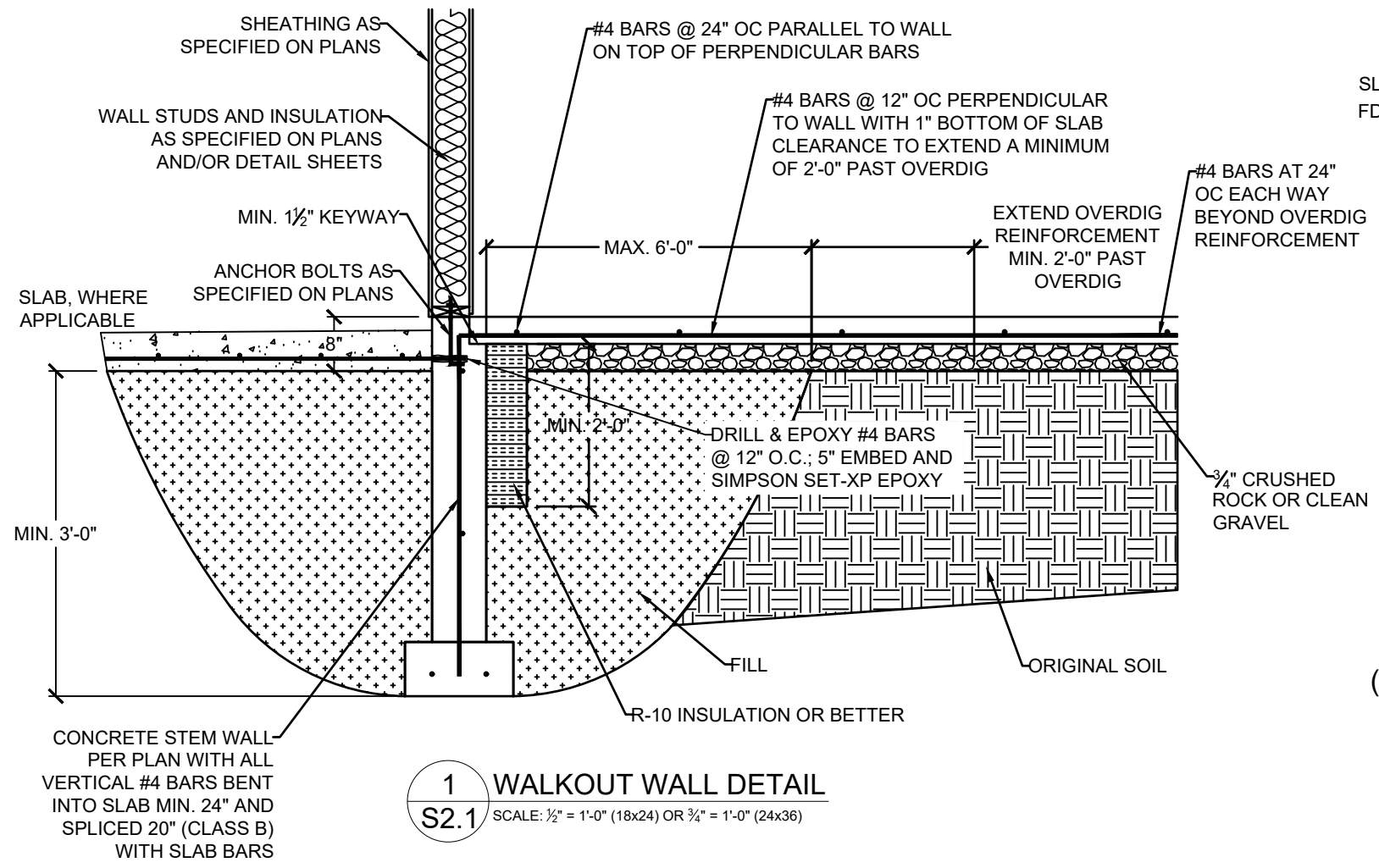
NO.	DATE	REVISION	BY

DRAWING TITLE
FOUNDATION DETAILS

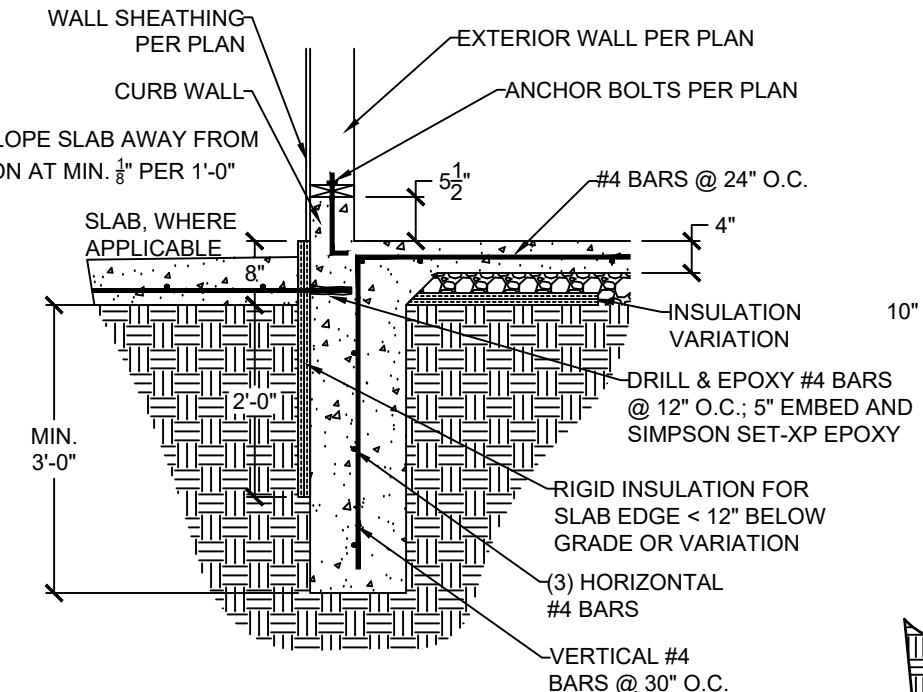
ENGINEER: DMH CHECKED BY: DMH
JOB NO: 3568 DRAWN BY: DMH
DATE: 06-14-21
SHEET NUMBER

S2.0

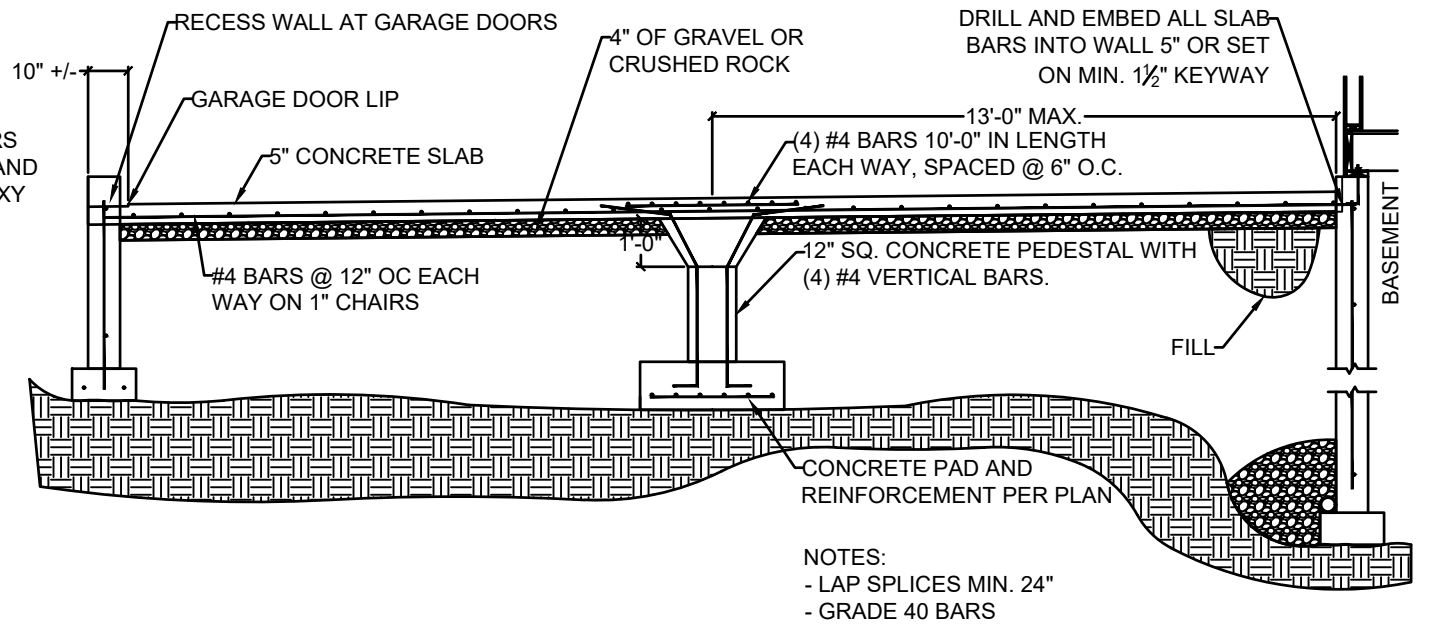
RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/24/2021



1 WALKOUT WALL DETAIL
S2.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

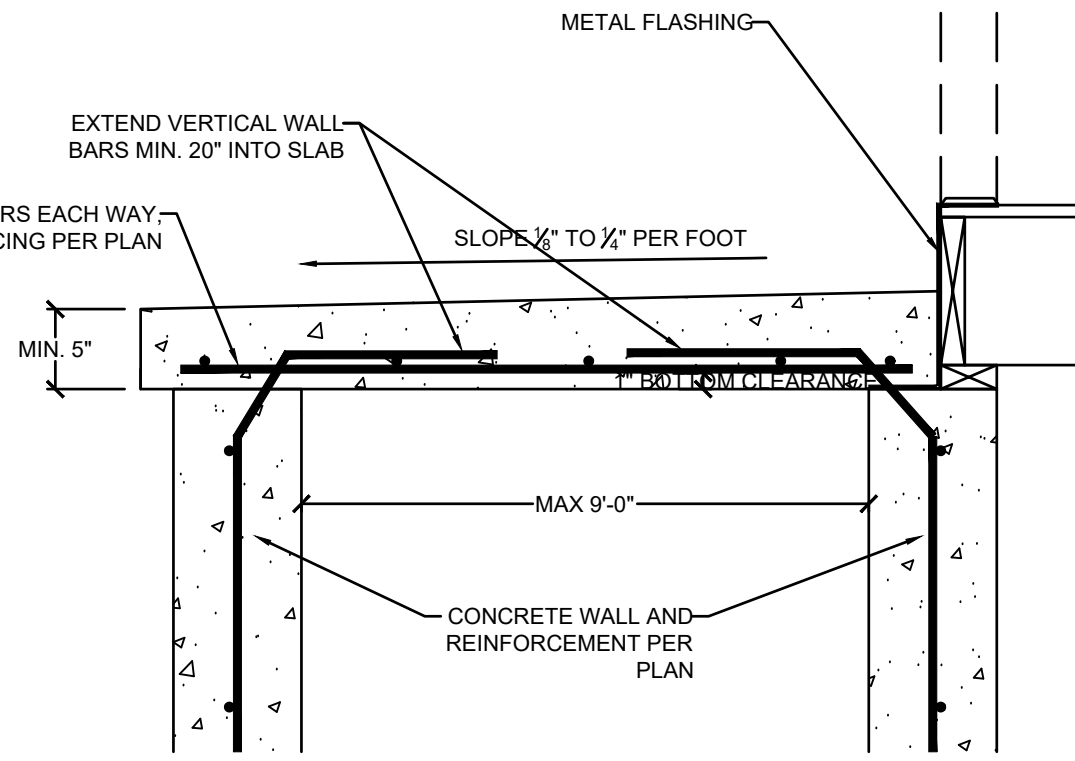


1 WALKOUT FOUNDATION DETAIL (ALTERNATE)
S2.1 SCALE: 1/2" = 1'-0"

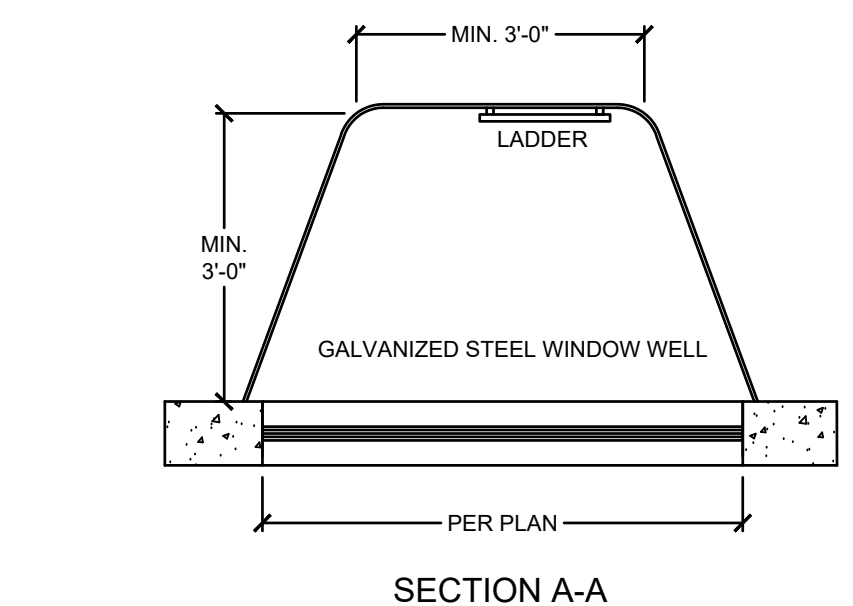
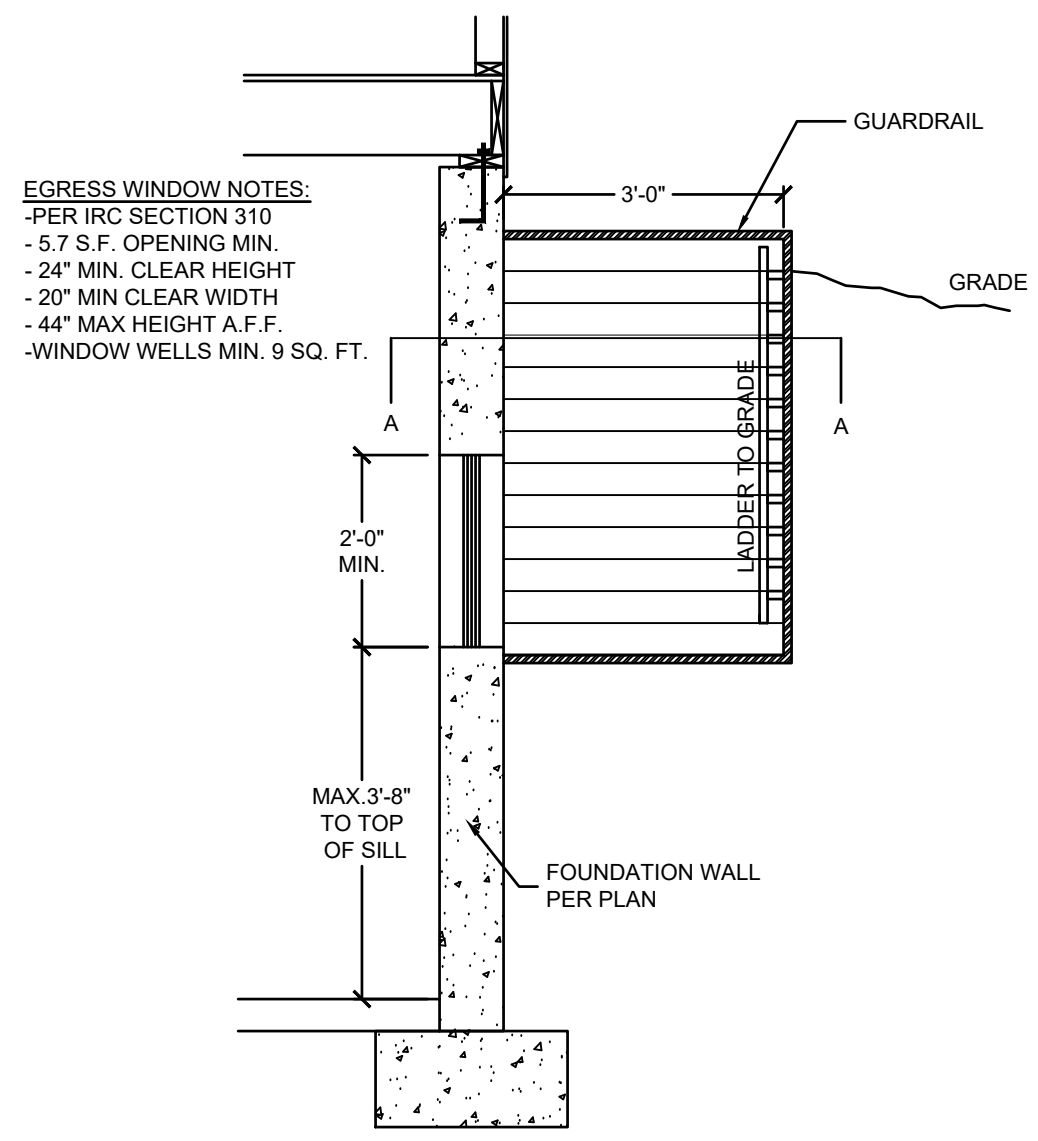


2 GARAGE SLAB ON FILL
S2.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

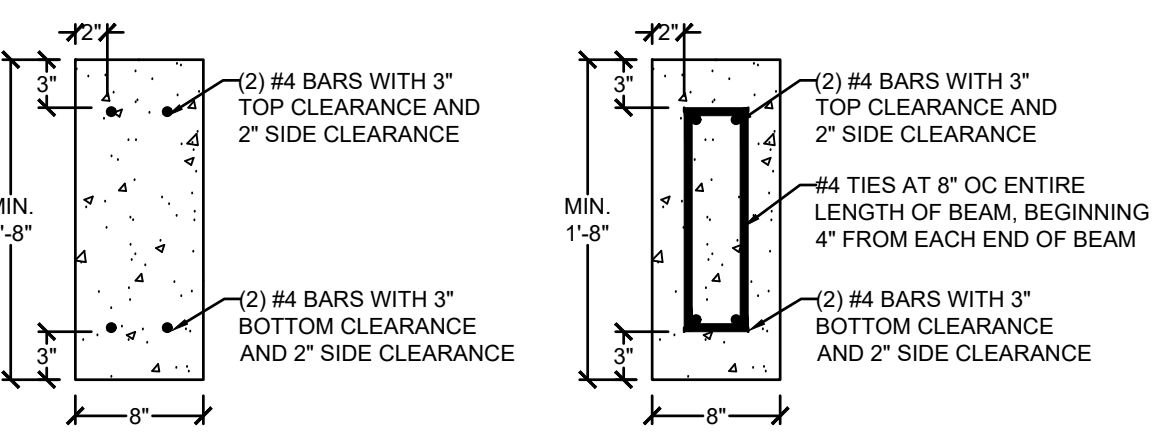
NOTES:
- LAP SPLICES MIN. 24"
- GRADE 40 BARS
- 3500 PSI CONCRETE



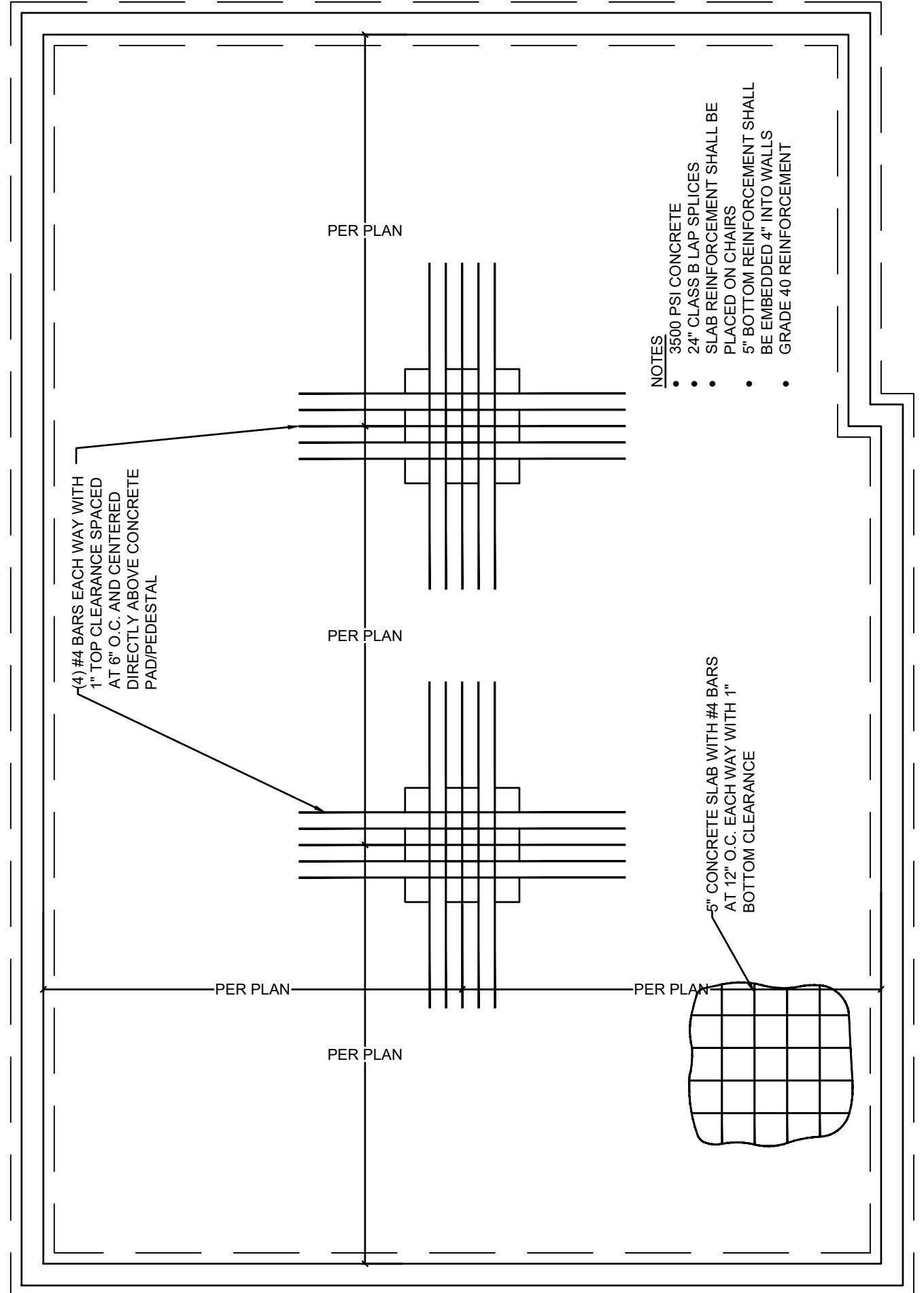
3 PORCH SLAB DETAIL
S2.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



5 EGRESS WINDOW WELL ELEVATION AND PLAN DETAILS
S2.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



4 CONCRETE HEADER DETAILS
S2.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



NOTES:
• 3500 PSI CONCRETE
• 24\"/>

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CLIENT: WALKER CUSTOM HOMES, LLC
JOB TITLE: PKR300 SPEC
LOT 300, PARK RIDGE 6TH PLAT
LOCATION: LEE'S SUMMIT, MISSOURI

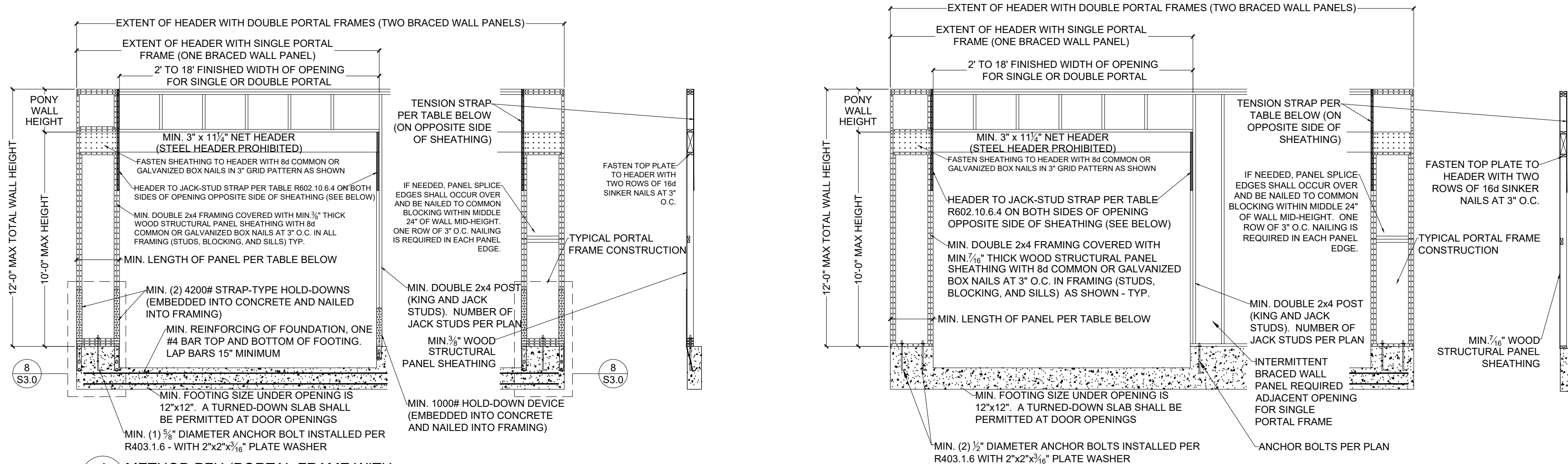
STATE OF MISSOURI
DENNIS HEIER
NUMBER PE-2010001772
PROFESSIONAL ENGINEER
06-14-2021

NO.	DATE	REVISION	BY

DRAWING TITLE
FOUNDATION DETAILS

ENGINEER: DMH CHECKED BY: DMH
JOB NO. 3568 DRAWN BY: DMH
DATE: 06-14-21
SHEET NUMBER

S2.1
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/24/2021



1 METHOD PFH (PORTAL FRAME WITH HOLD-DOWNS) - PER FIGURE IRC R602.10.6.2
SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

2 METHOD PFG (PORTAL FRAME AT GARAGE DOOR) - PER FIGURE IRC R602.10.6.3
SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

MINIMUM PANEL LENGTH FOR DETAIL 1/S3.0 (INCHES)

	WALL HEIGHT				
	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
SUPPORTING ROOF ONLY	16	16	16	18	20
SUPPORTING ONE STORY AND ROOF	24	24	24	27	29

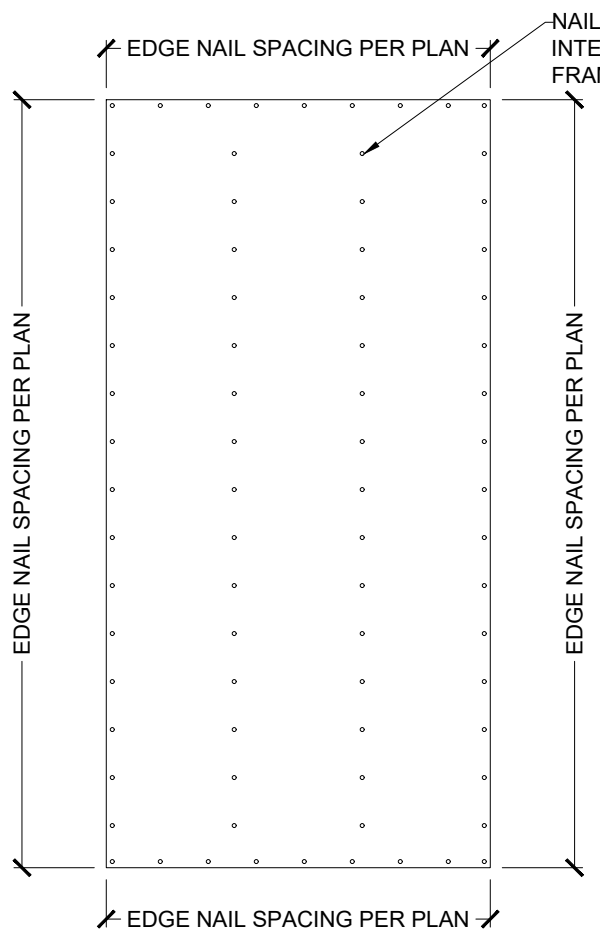
TENSION STRAP REQUIRED FOR HEADER TO JACK STUD FOR DETAILS 1/S3.0 AND 2/S3.0 (FROM TABLE R602.10.6.4)

MAX GARAGE OPENING (FT.)	PONY WALL WALL HT. (FT.)	REQUIRED SIMPSON STRAP	MIN. STRAP END LENGTH	NAILS REQUIRED IN EACH STRAP END LENGTH
18'-0"	0'-0"	CS20	0'-9"	(7) 8d
9'-0"	1'-0"	CS20	0'-9"	(7) 8d
18'-0"	1'-0"	CS14	1'-4"	(15) 8d
9'-0"	2'-0"	CS18	0'-11"	(9) 8d
18'-0"	2'-0"	CMSTC16	1'-8"	(25) 16d SINKER
9'-0"	4'-0"	CMSTC16	1'-8"	(25) 16d SINKER
16'-0"	4'-0"	CMST14	2'-6"	(33) 10d

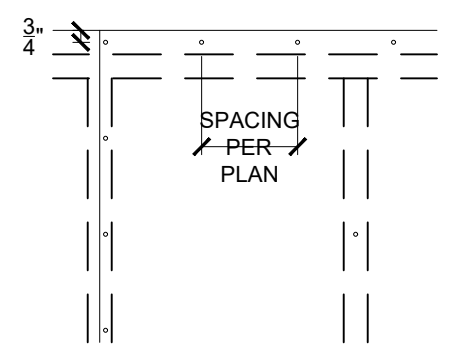
MINIMUM PANEL LENGTH FOR DETAIL 2/S3.0 (INCHES)

WALL HEIGHT				
8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
24	27	30	33 ^a	36 ^a

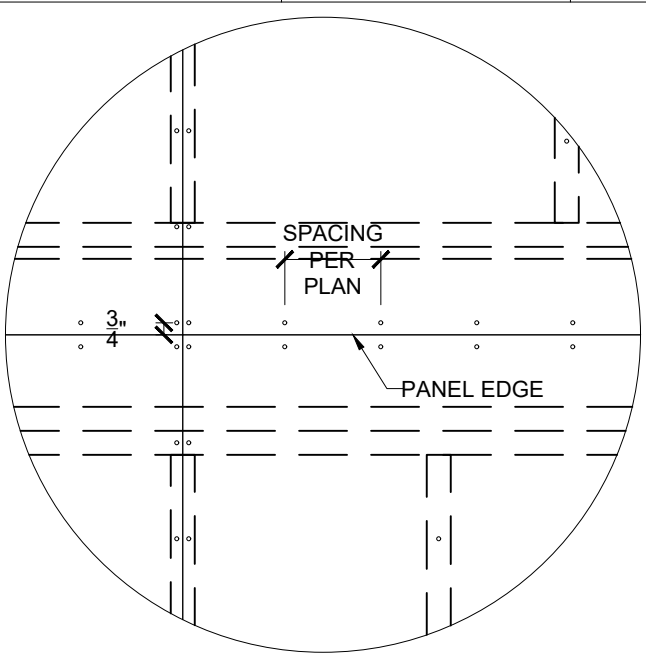
a. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall



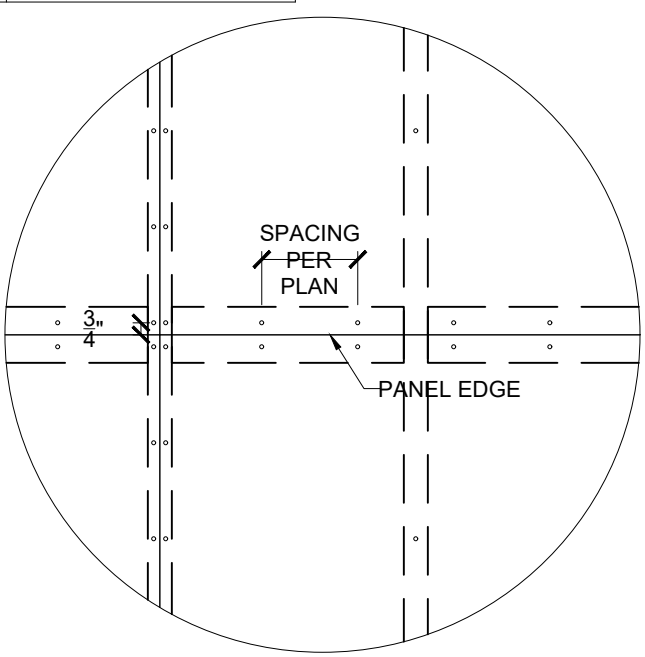
3 EXTERIOR WALL SHEATHING PANEL ATTACHMENT
SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



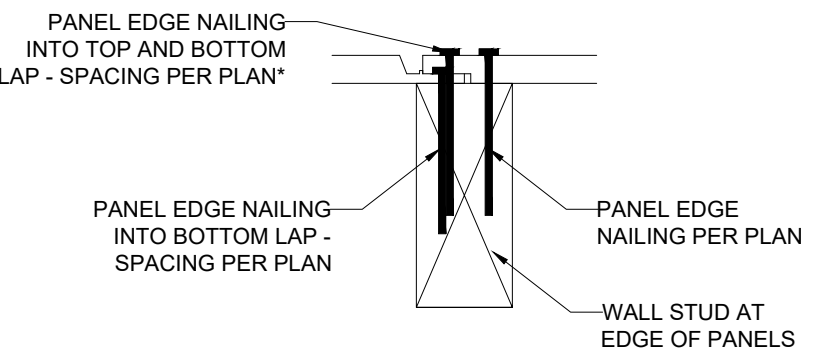
4 SHEATHING EDGE AT TOP AND BOTTOM PLATES
SCALE: 1" = 1'-0" (18x24) OR 1 1/2" = 1'-0" (24x36)



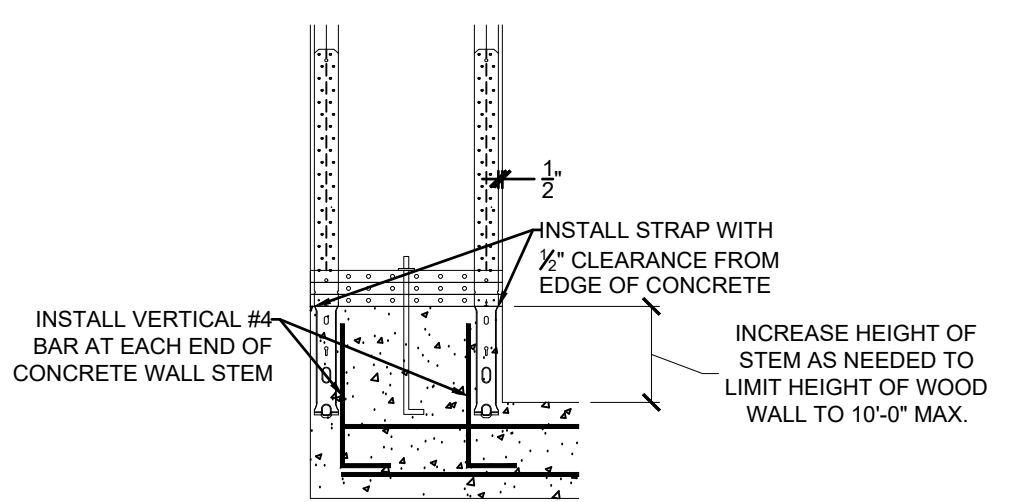
5 SHEATHING EDGE AT HORIZONTAL FRAMING MEMBER
SCALE: 1" = 1'-0" (18x24) OR 1 1/2" = 1'-0" (24x36)



6 SHEATHING EDGE AT PANEL SPLICE ACROSS STUDS
SCALE: 1" = 1'-0" (18x24) OR 1 1/2" = 1'-0" (24x36)



7 FASTENING INSTRUCTIONS FOR SHIPLAP PANEL SHEATHING
SCALE: 4" = 1'-0" (18x24) OR 6" = 1'-0" (24x36)



8 GARAGE HOLD-DOWN STRAP INSTALLATION
SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

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CLIENT: WALKER CUSTOM HOMES, LLC
JOB TITLE: PKR300 SPEC LOT 300, PARK RIDGE 6TH PLAT
LOCATION: LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
DENNIS HEIER
NUMBER PE-2010001772
PROFESSIONAL ENGINEER
06-14-2021

NO.	DATE	REVISION	BY

DRAWING TITLE
FRAMING DETAILS

ENGINEER: DMH CHECKED BY: DMH
JOB NO: 3568 DRAWN BY: DMH
DATE: 06-14-21 SHEET NUMBER

S3.0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
06/24/2021

VISTA
STRUCTURAL
ENGINEERING, LLC

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JOB TITLE: PKR300 SPEC
LOT 300, PARK RIDGE 6TH PLAT
LOCATION: LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
DENNIS HBIER
NUMBER: PE-2014001772
PROFESSIONAL ENGINEER
06-14-2021

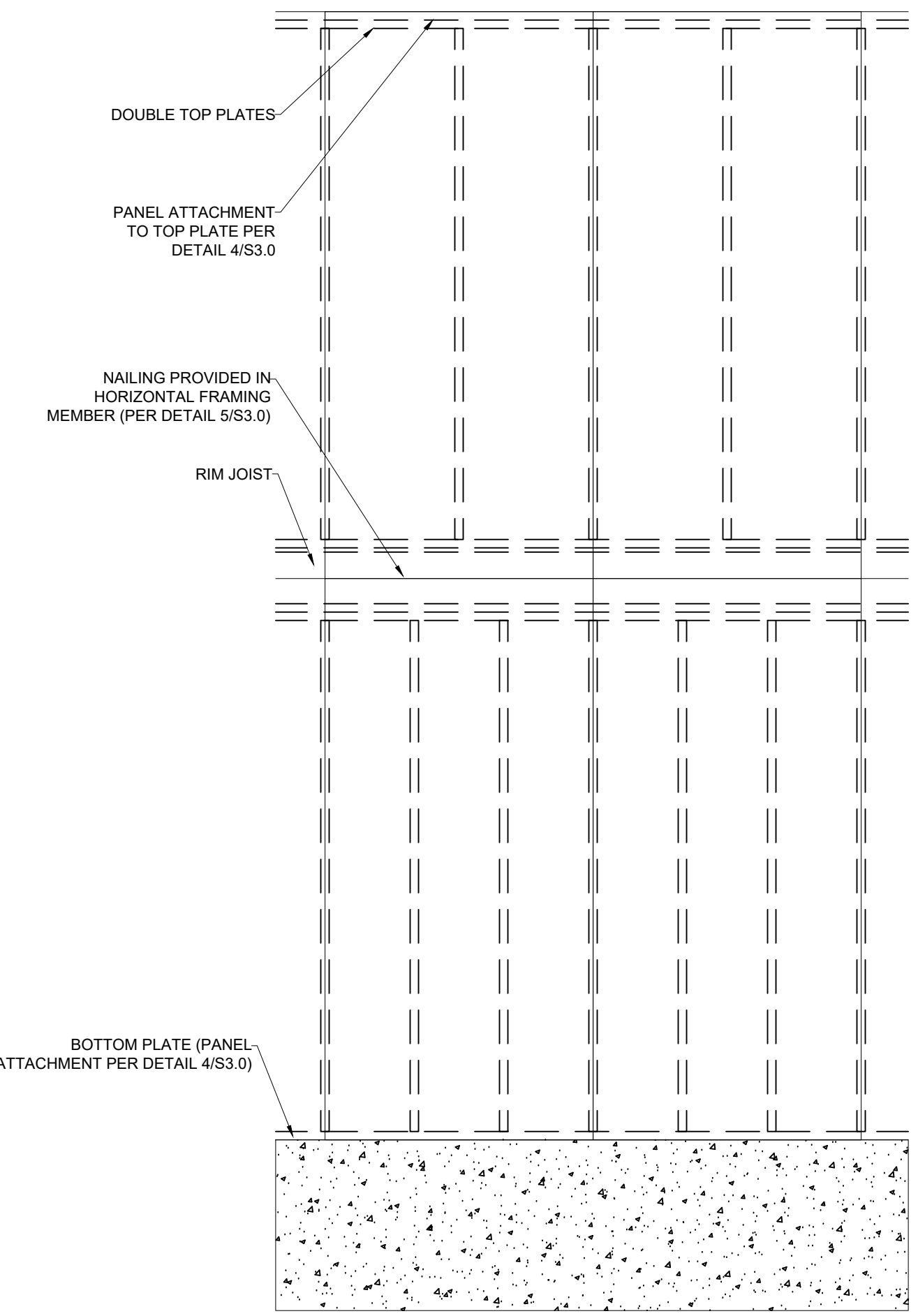
NO.	DATE	REVISION	BY

DRAWING TITLE
**FRAMING
DETAILS**

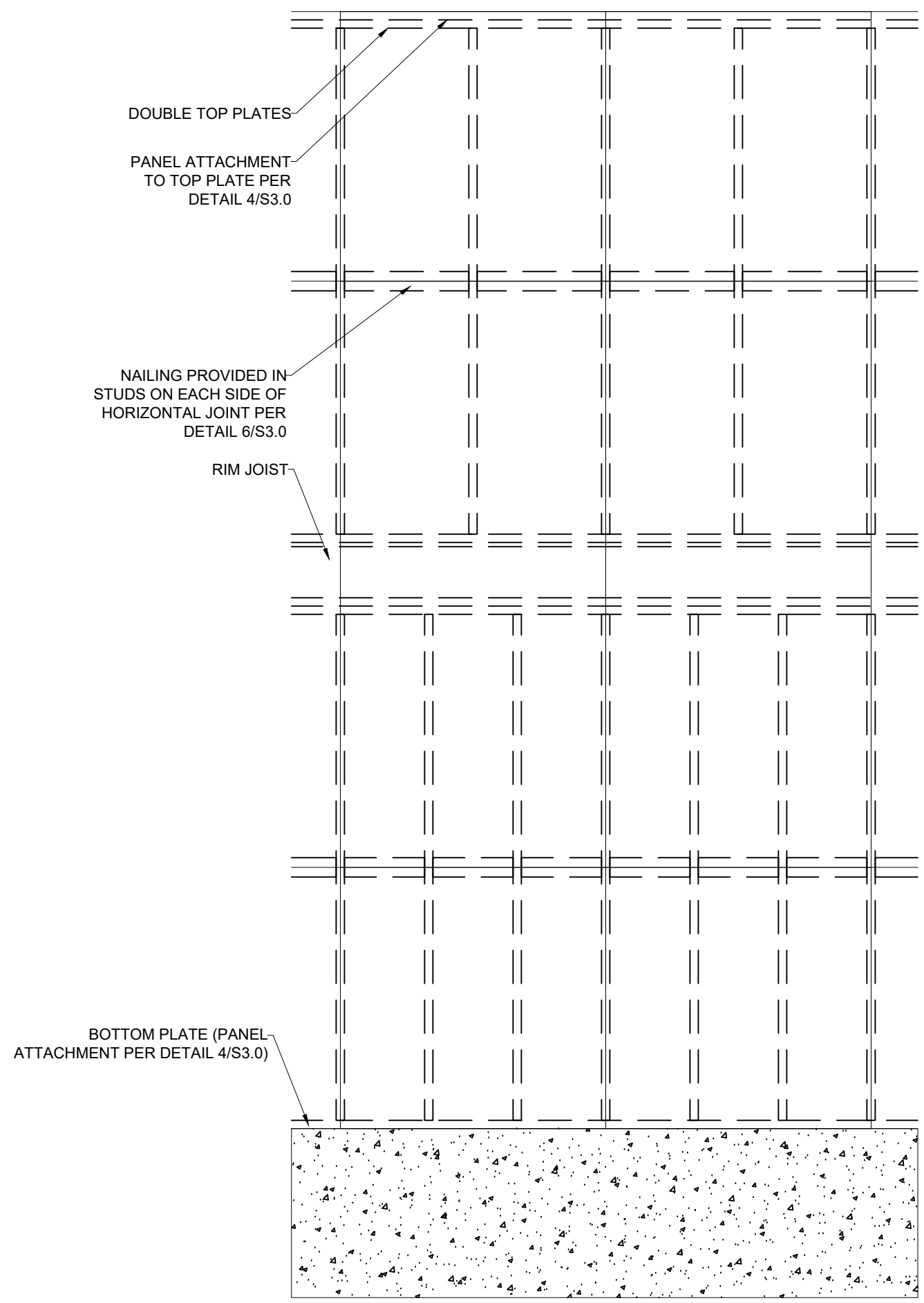
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JOB NO. 3568 DRAWN BY: DMH
DATE: 06-14-21
SHEET NUMBER

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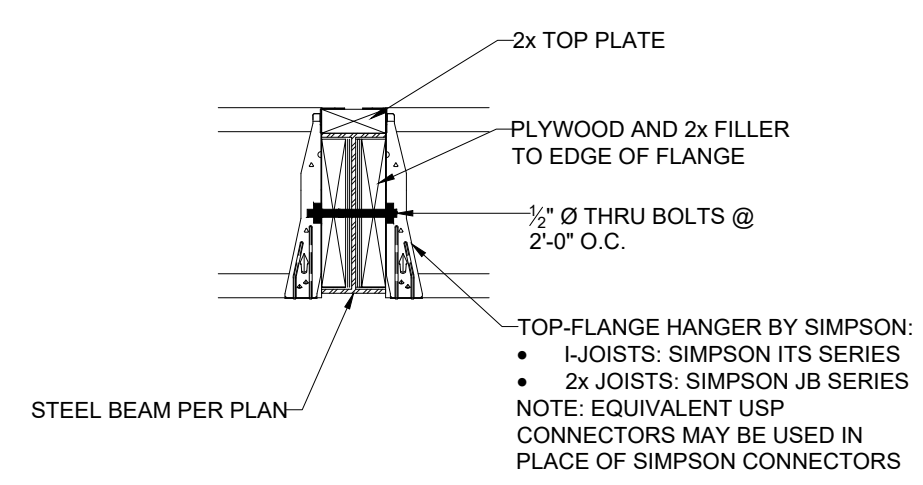
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/24/2021



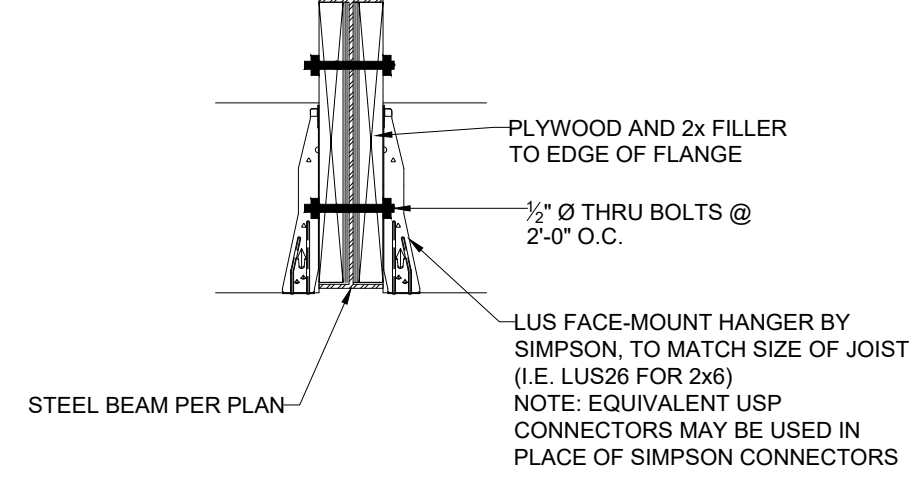
1 EXTERIOR WALL SHEATHING PANEL ATTACHMENT
S3.1 PANEL SPLICE OVER HORIZONTAL FRAMING MEMBER
SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



2 EXTERIOR WALL SHEATHING PANEL ATTACHMENT
S3.1 PANEL SPLICE OCCURRING ACROSS STUDS
SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

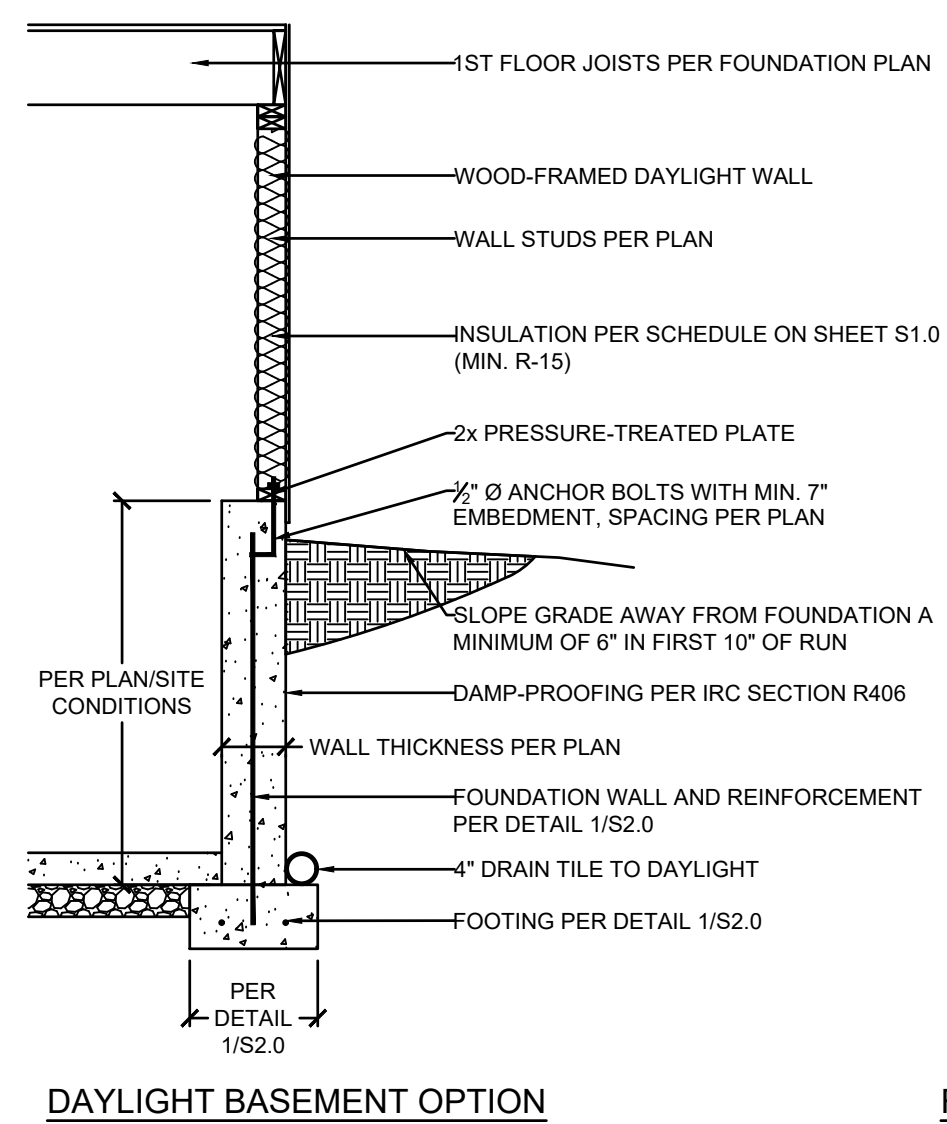


4 FLOOR JOIST TO FLUSH STEEL BEAM DETAIL
S3.1 SCALE: 1" = 1'-0" (18x24) OR 1 1/2" = 1'-0" (24x36)

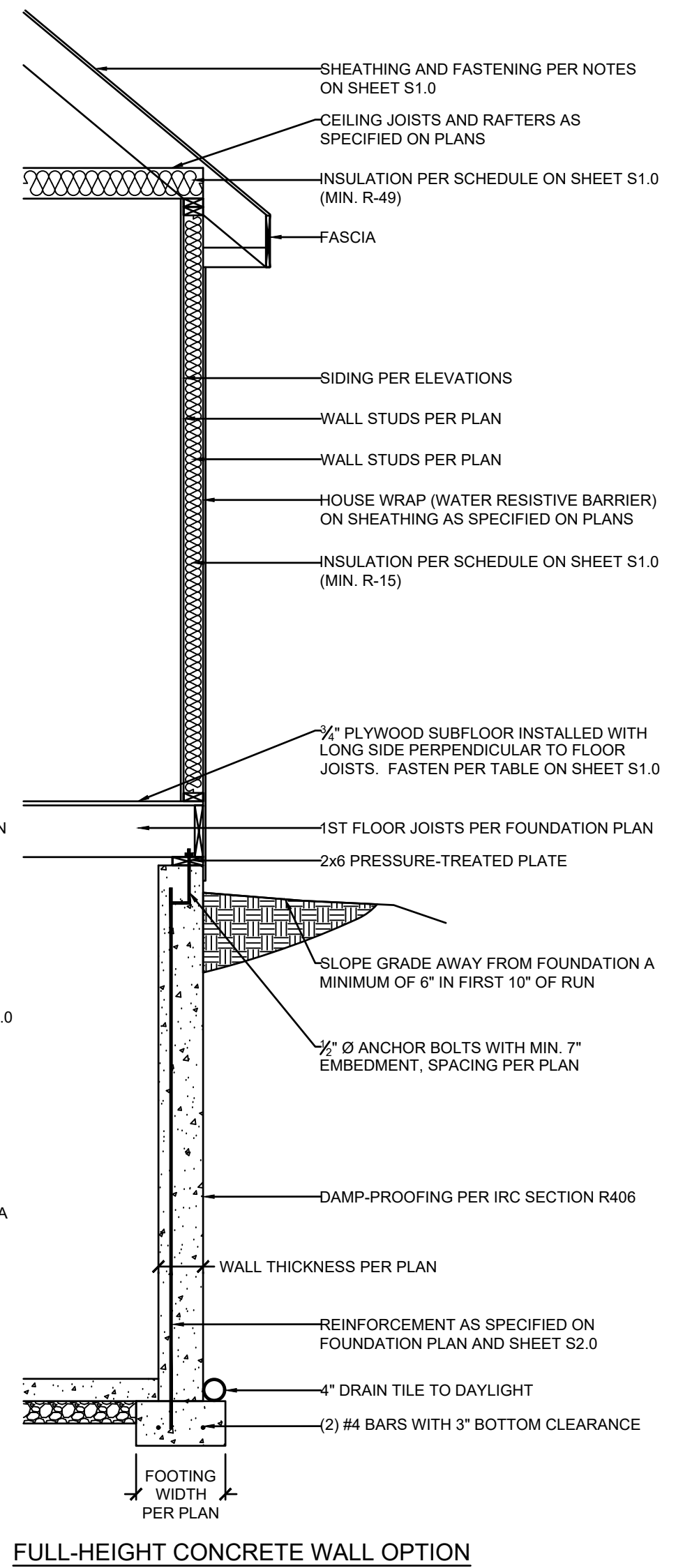


5 CEILING JOIST TO FLUSH STEEL BEAM DETAIL
S3.1 SCALE: 1" = 1'-0" (18x24) OR 1 1/2" = 1'-0" (24x36)

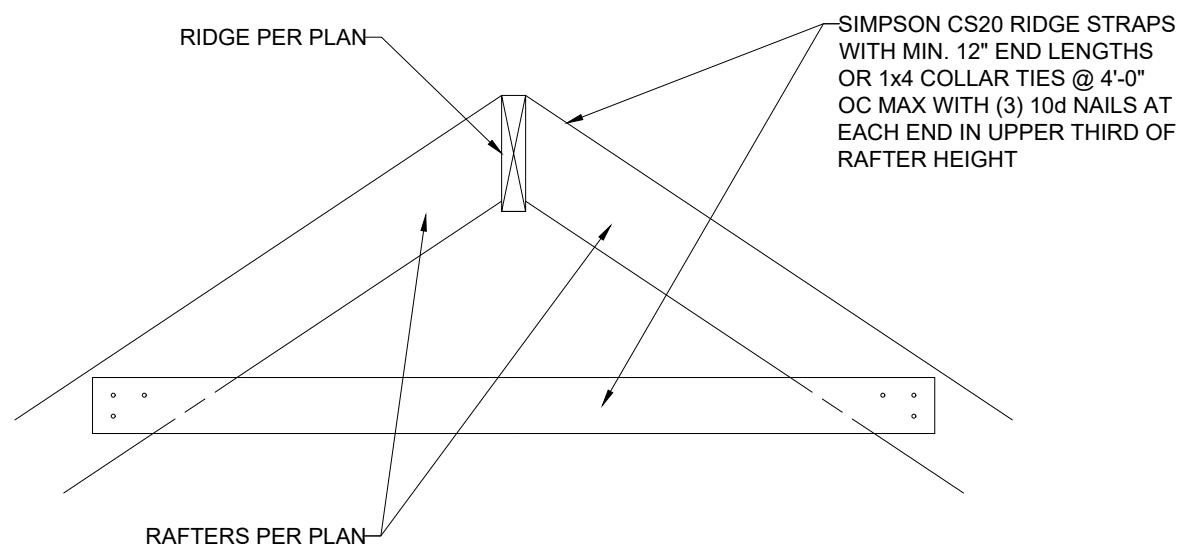
3 EXTERIOR WALL SECTION
S3.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



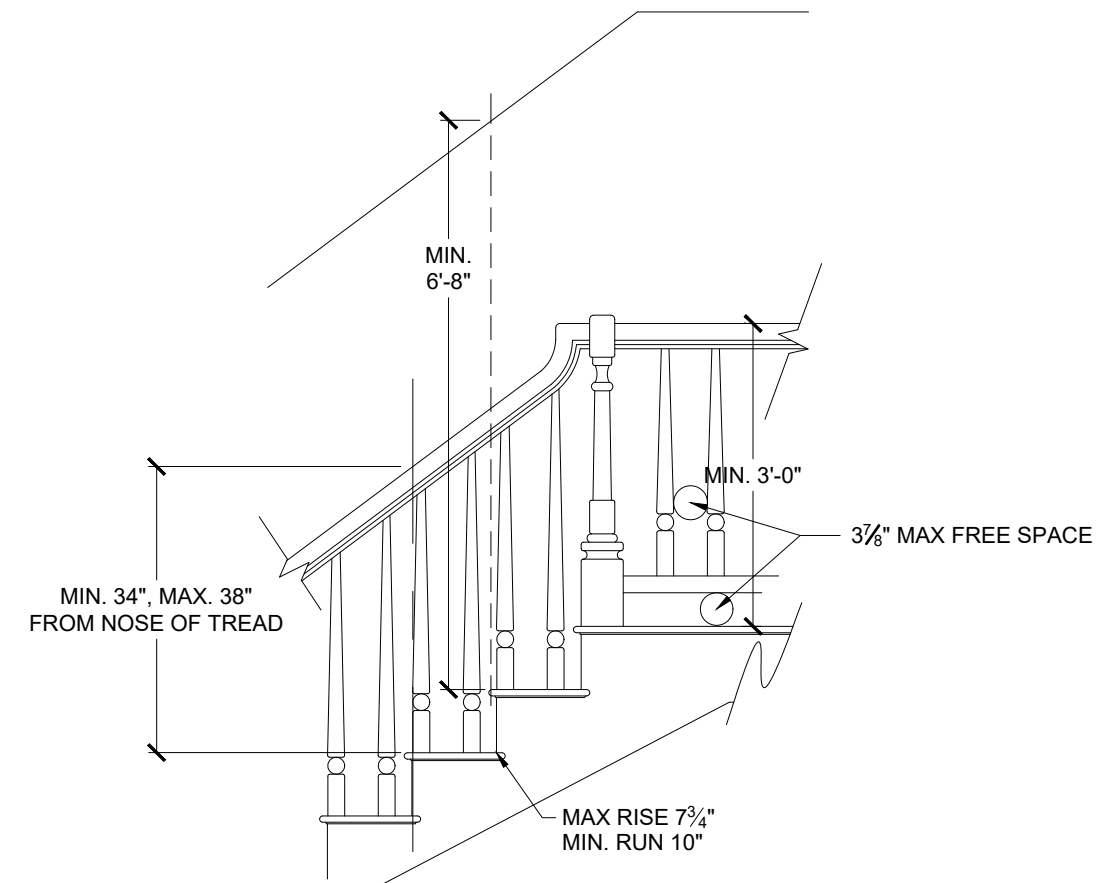
DAYLIGHT BASEMENT OPTION



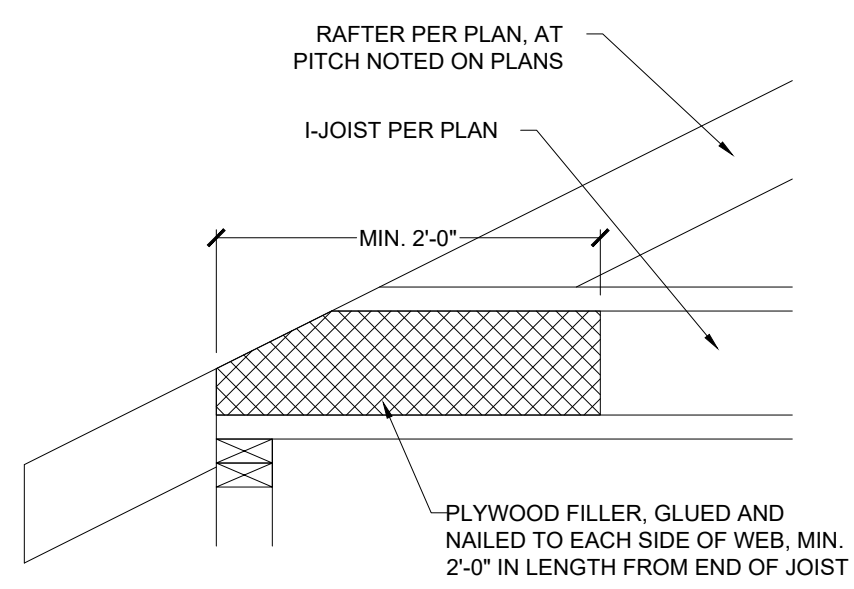
FULL-HEIGHT CONCRETE WALL OPTION



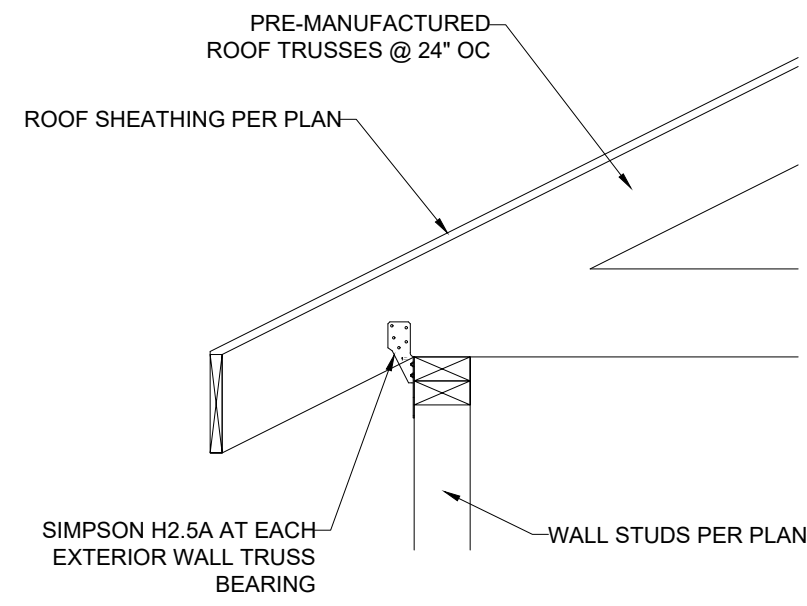
1 RIDGE FRAMING DETAIL
S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



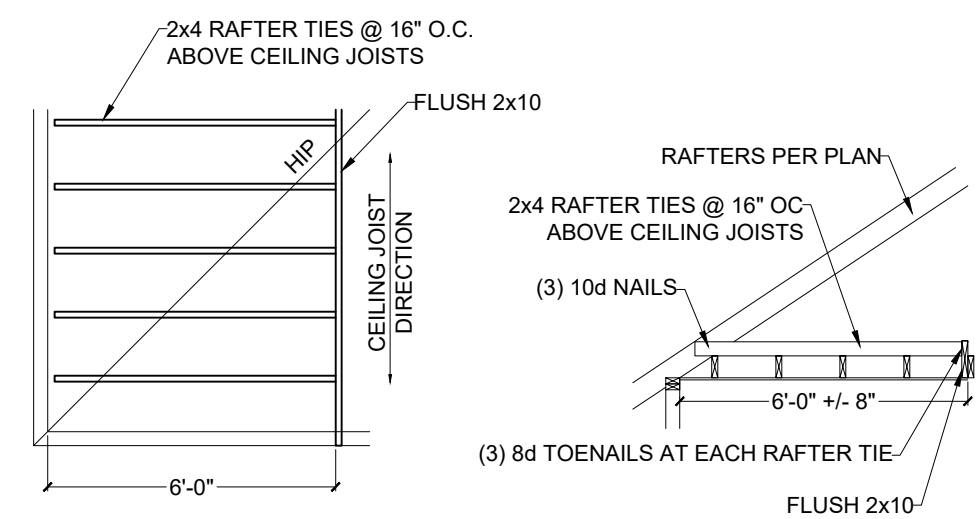
4 STAIR AND HANDRAIL/GUARDRAIL DETAIL
S3.2 SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



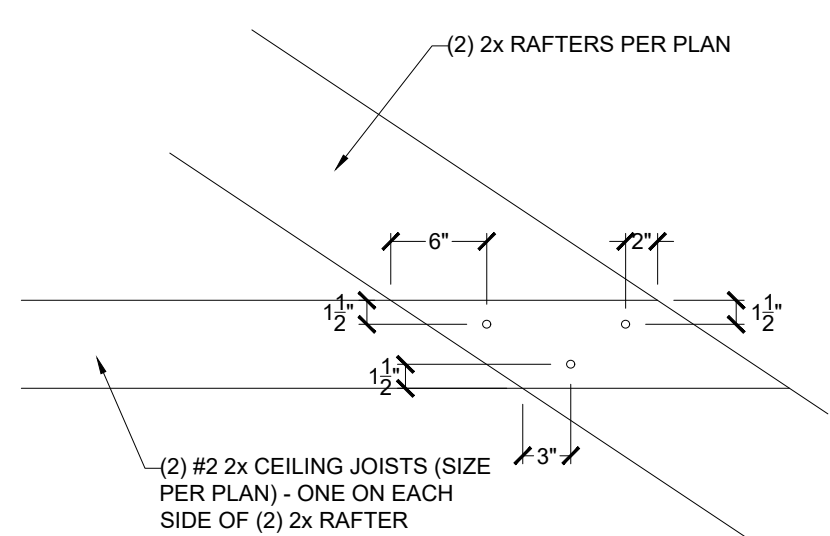
9 COPED I-JOIST REINFORCEMENT
S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



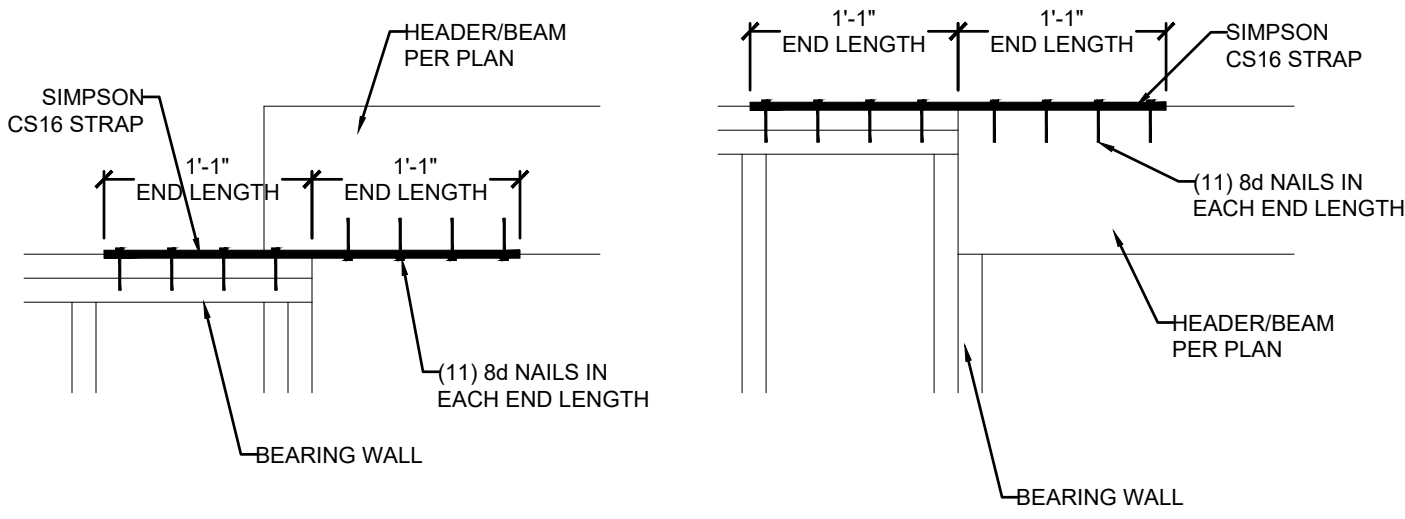
2 TRUSS CONNECTION TO EXT. WALL BEARING
S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



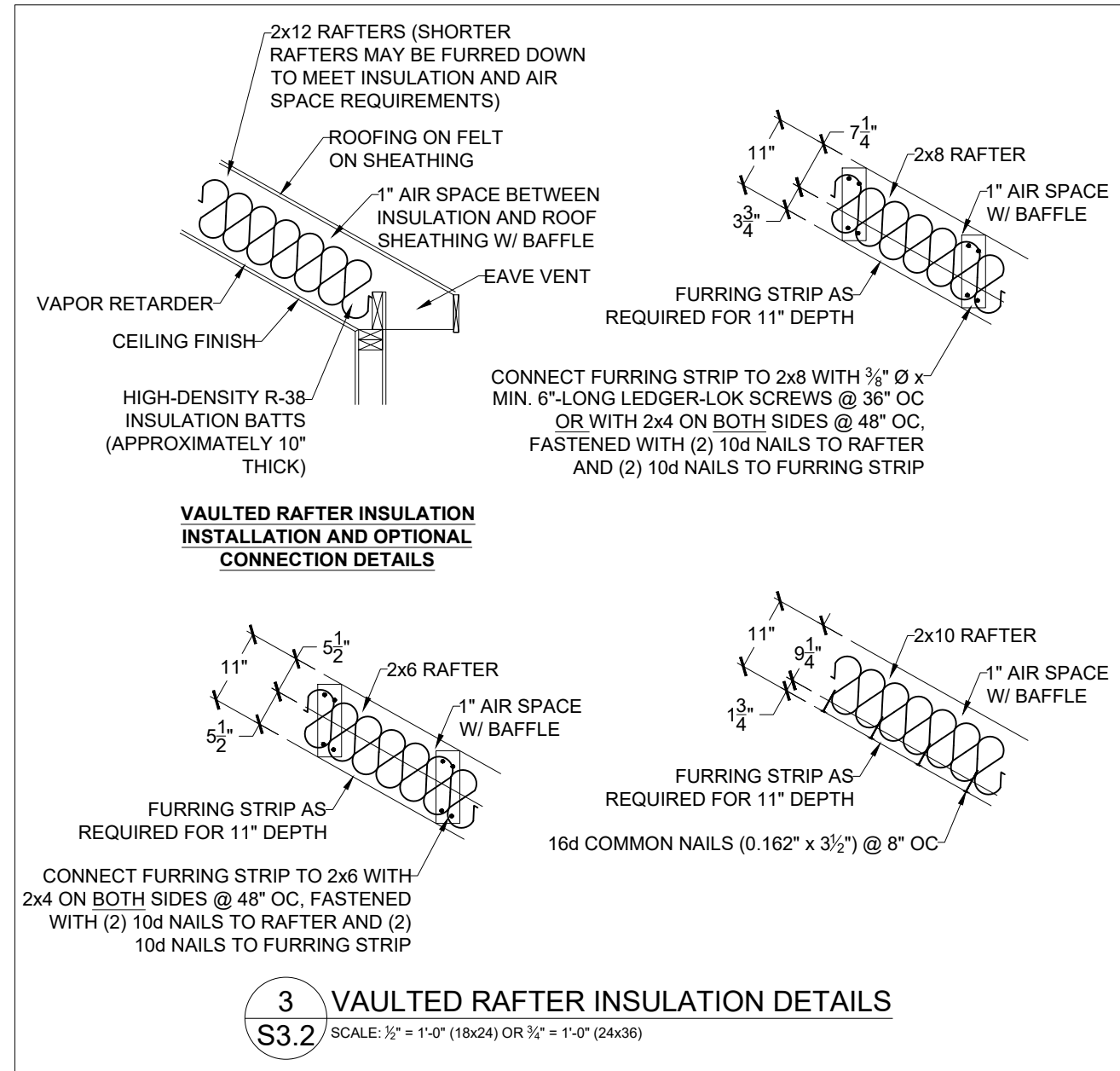
5 RAFTER TIES AT CEILING JOISTS PERP. TO RAFTERS
S3.2 SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



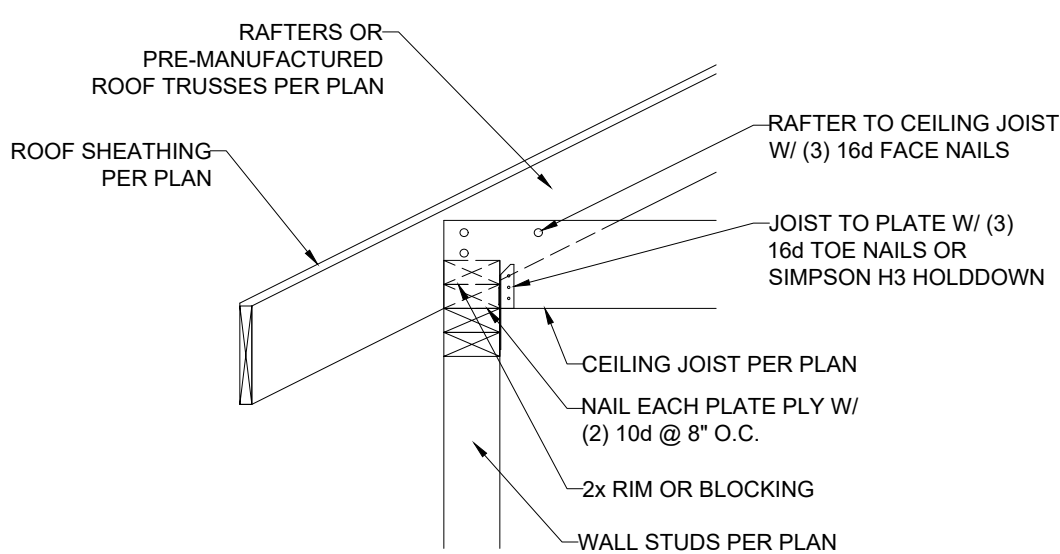
6 FIELD-CONSTRUCTED A-FRAME DETAIL
S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



10 HEADER/BEAM CONNECTION OPTIONS AT OUTDOOR/OPEN SPACE
S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



3 VAULTED RAFTER INSULATION DETAILS
S3.2 SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



7 RAFTER BEARING OPTION DETAIL
S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

HEIGHT (FT.)	SPACING (INCHES O.C.)			
	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
SUPPORTING ONE FLOOR AND A ROOF				
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
SUPPORTING TWO FLOORS AND A ROOF				
10 OR LESS	2x6	2x6	2x4	2x4
12	2x6	2x6	2x6	2x6
14	2x6	2x6	2x6	2x6
16	DR	2x6	2x6	2x6
18	DR	DR	2x6	2x6
20	DR	DR	DR	2x6

NOTES:
1) DR = DESIGN REQUIRED
2) UTILITY, STANDARD, STUD AND #3 GRADE LUMBER OF ANY SPECIES ARE NOT PERMITTED
3) THIS TABLE DOES NOT APPLY FOR STUDS SUPPORTING MEMBERS WITH A TRIB. LENGTH GREATER THAN 6'-0"

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

VISTA STRUCTURAL ENGINEERING, LLC
14718 NW DELLA STREET * PORTLAND, OREGON 97229
OFFICE: 971.255.6099 * MOBILE: 971.255.6099 *
EMAIL: DENNIS@VISTASTRUCTURAL.COM

CLIENT: WALKER CUSTOM HOMES, LLC
JOB TITLE: PKF300 SPEC
LOT 300, PARK RIDGE 6TH PLAT
LOCATION: LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
DENNIS HEIER
NUMBER: PE-201001772
PROFESSIONAL ENGINEER
06-14-2021

NO.	DATE	REVISION	BY

DRAWING TITLE
FRAMING DETAILS

ENGINEER: DMH CHECKED BY: DMH
JOB NO. 3568 DRAWN BY: DMH
DATE: 06-14-21
SHEET NUMBER

S3.2

RELEASED FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/24/2021