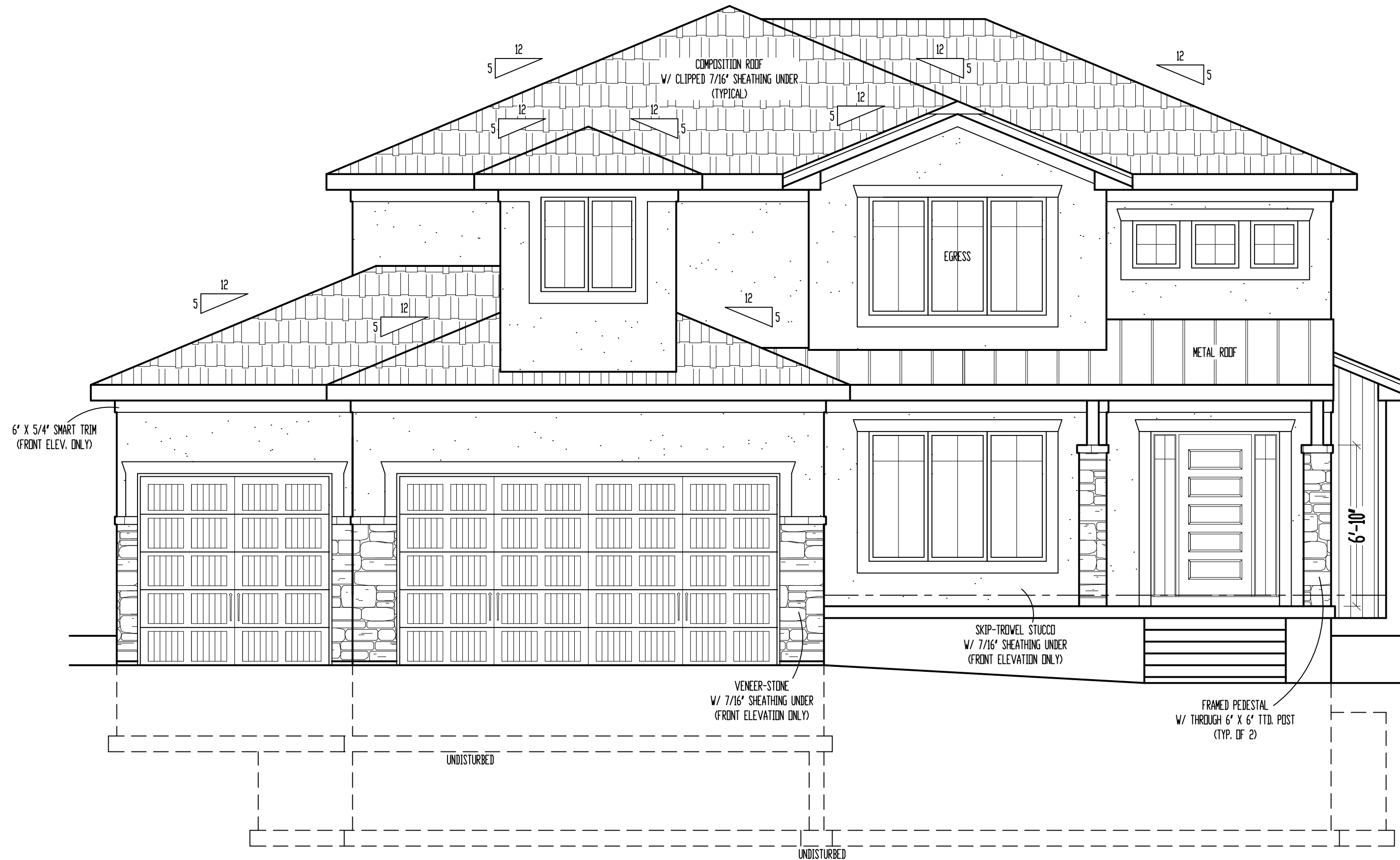
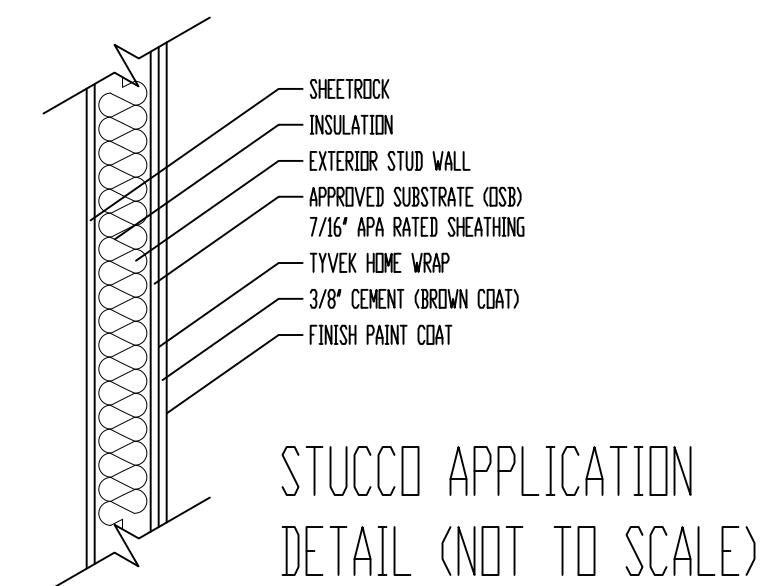


ONE-TIME-BUILD LICENSE AGREEMENT

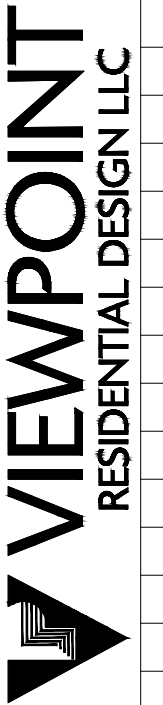
NOTE: GOVERNING CODES &
 GENERAL CONTRACTOR'S WRITTEN SPECIFICATIONS
 TAKE PRECEDENCE OVER THESE PLANS.



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

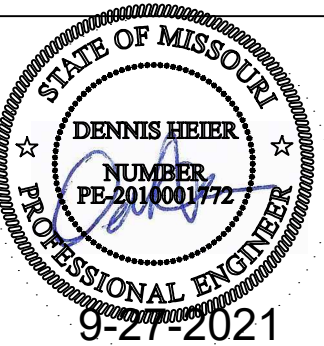


"For God so loved
 the world, that he
 gave his only
 begotten Son,
 that whosoever
 believeth in him
 should not perish,
 but have
 everlasting life"
 (John 3:16)



Office: (816)554-0400 Email: admin@viewpointdesign.net

Project Title:
HHF018 Spec
 Site Description:
**Lot 18, Homestead
 at Hook Farms 1st
 Plat**
 Street Address:
**2034 SW Hook Farm
 Dr., Lee's Summit,
 Missouri**
 General Contractor:
**Walker Custom
 Homes, LLC**

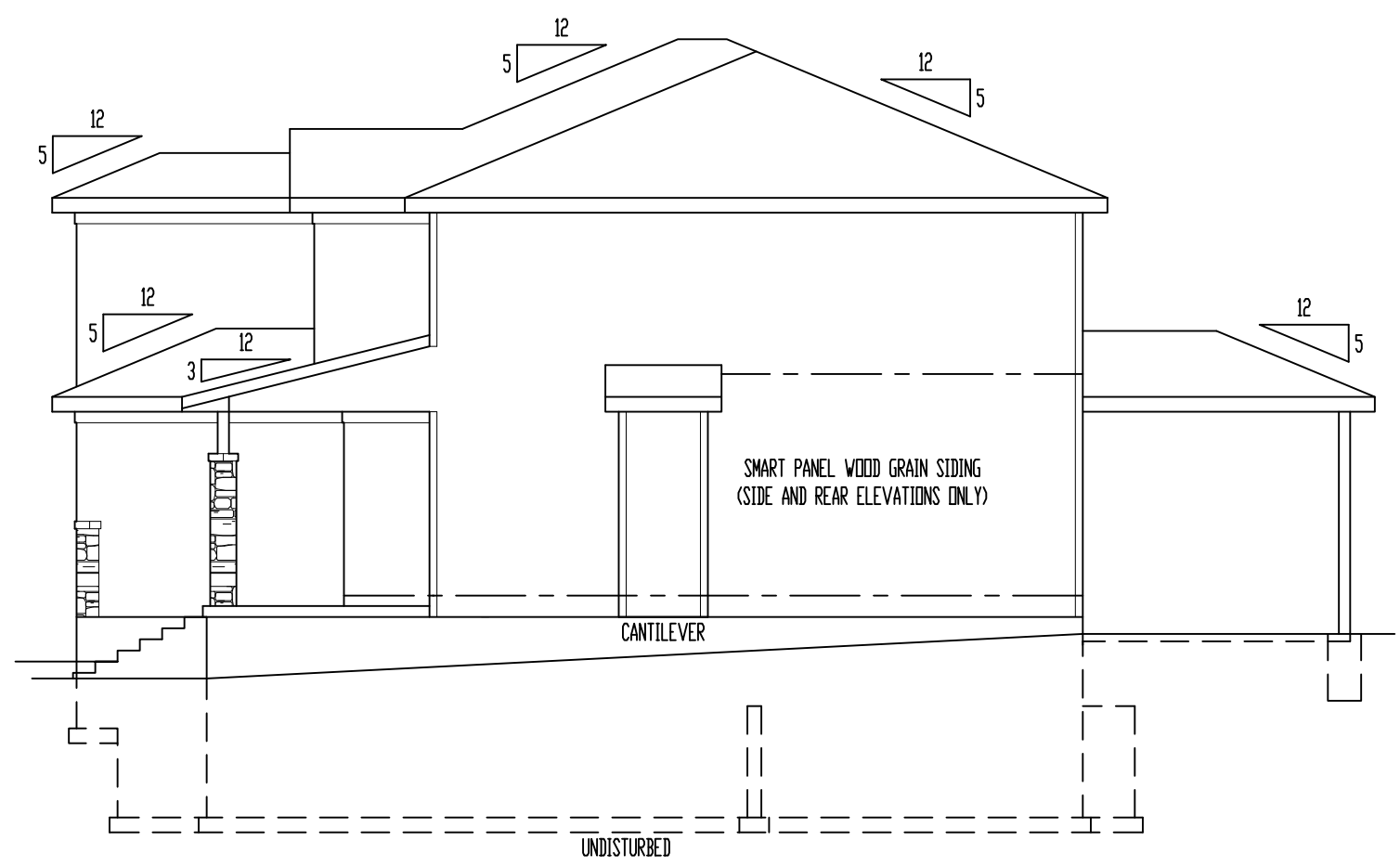


Date: 9-22-AD 2021
 Rev. 1:
 Rev. 2:
 Rev. 3:

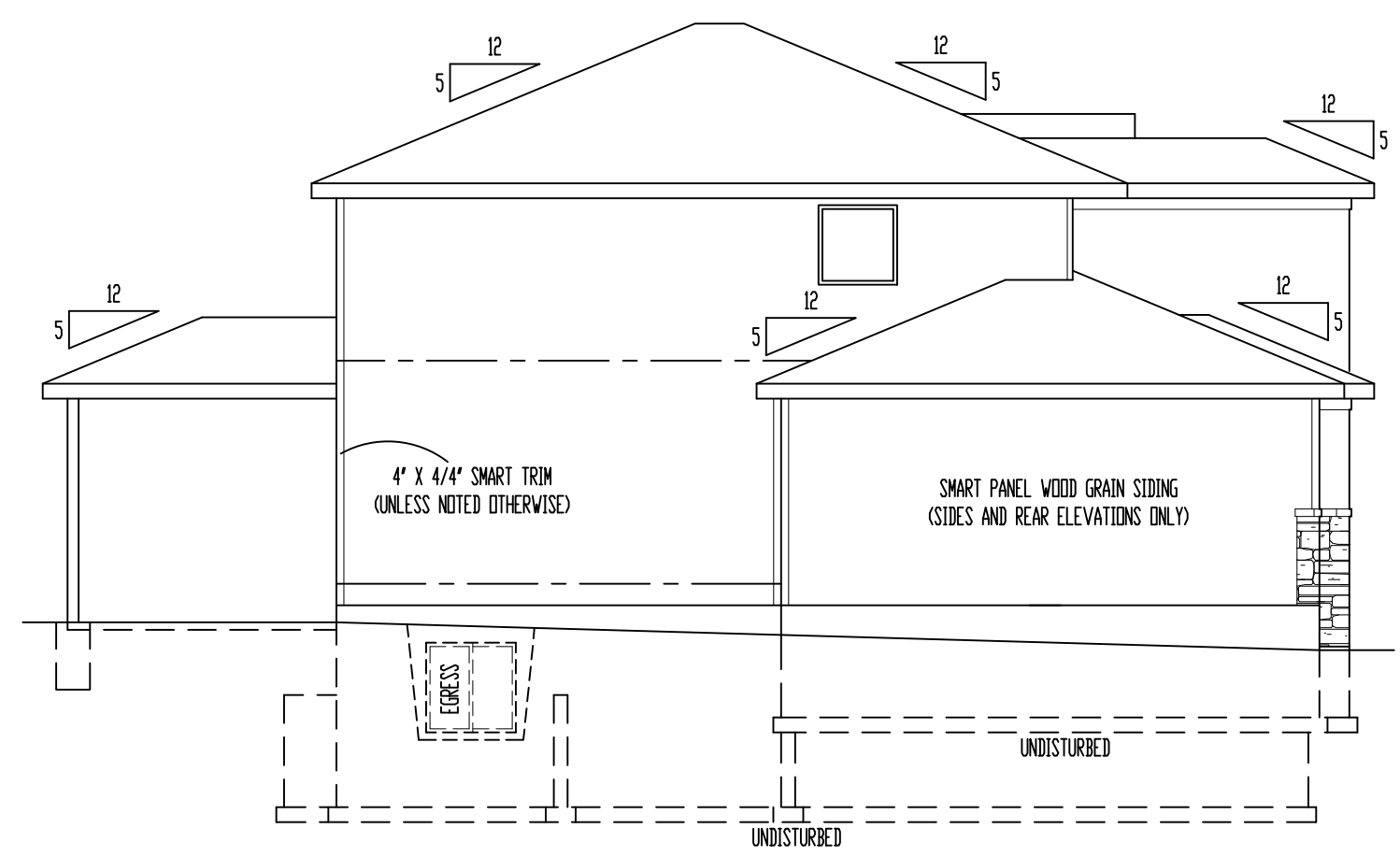
Sheet Title:
**FRONT
 ELEVATION**

Sheet No.:
A-1 of 6

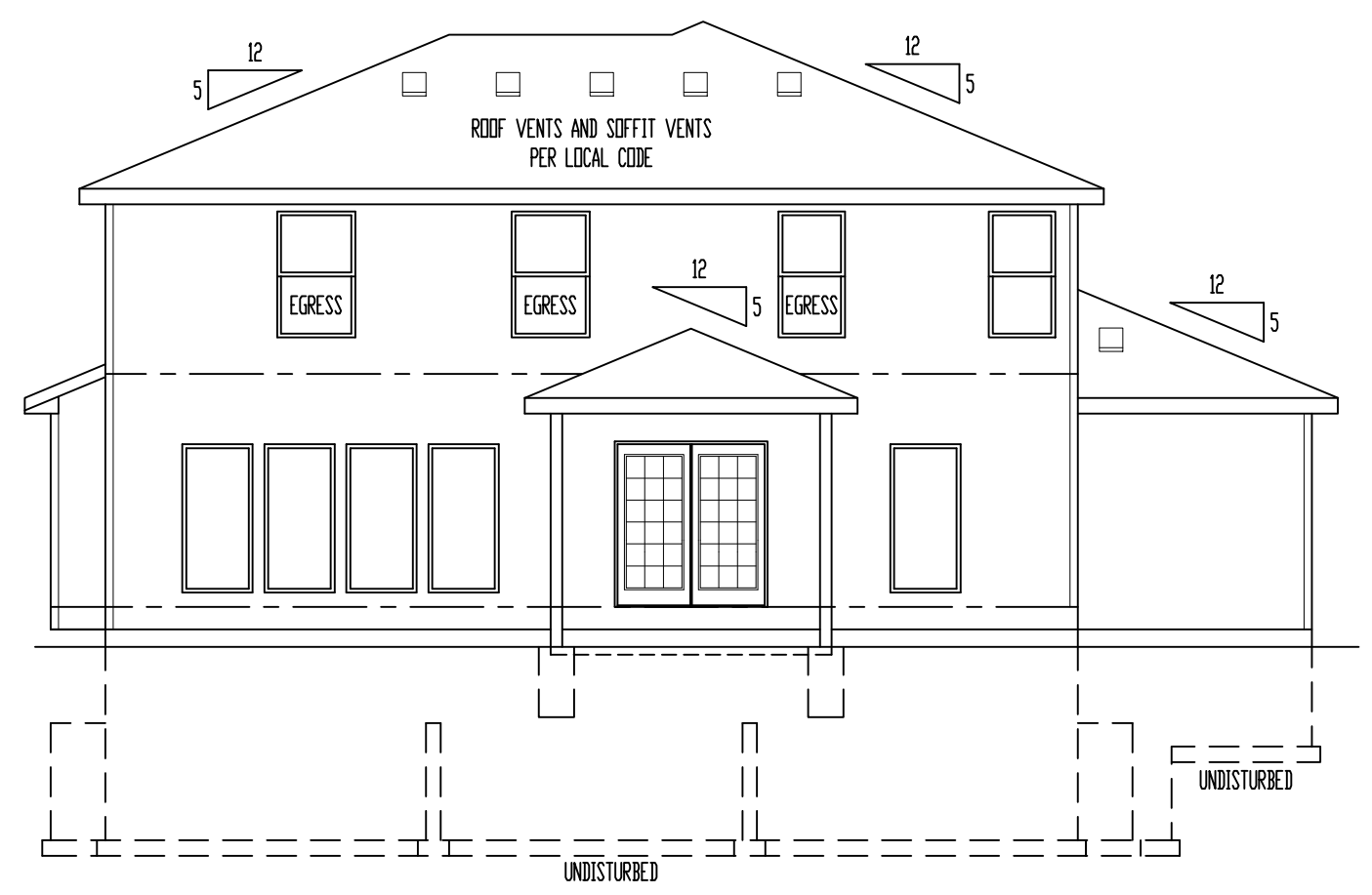
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 including structural failures, due to any deficiencies, omissions or error in the design or
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RIGHT ELEVATION
 SCALE: 1/8" = 1'-0"



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

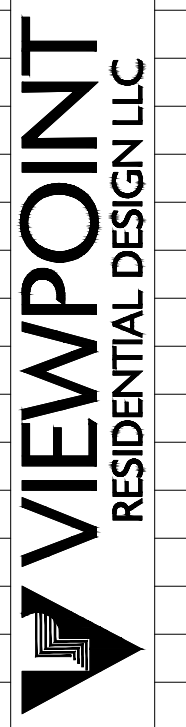


REAR ELEVATION
 SCALE: 1/8" = 1'-0"

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

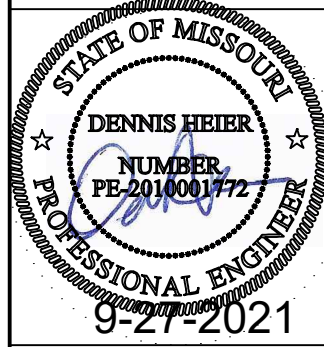
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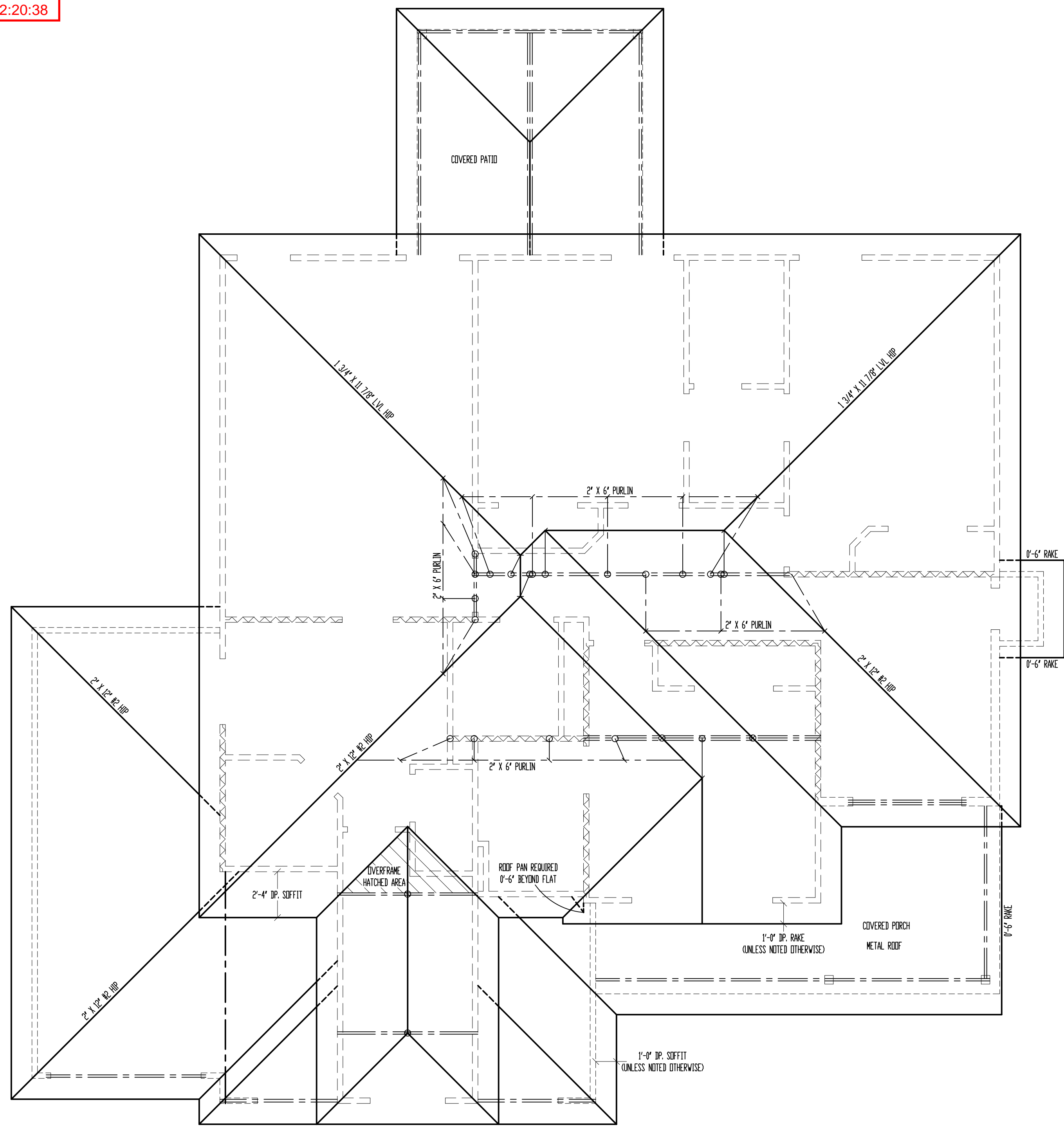
Project Title:
HHF018 Spec
 Site Description:
Lot 18, Homestead at Hook Farms 1st Plat
 Street Address:
2034 SW Hook Farm Dr., Lee's Summit, Missouri
 General Contractor:
Walker Custom Homes, LLC



Date: 9-22-AD 2021
 Rev. 1:
 Rev. 2:
 Rev. 3:

Sheet Title:
SIDES & REAR ELEVATIONS

Sheet No.:
A-2 of 6



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 BE 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 (o)

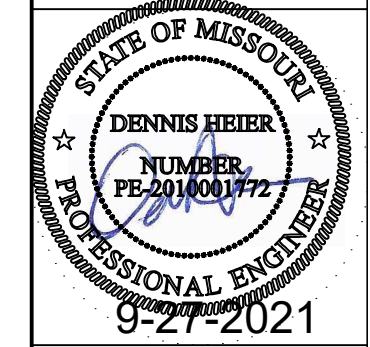
- x ~~~~~ DENOTES BEARING WALL
- x - - - - - DENOTES ROOF BRACE
- x - - - - - DENOTES PURLIN
- x - - - - - DENOTES BEARING STRUCTURE

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VIEWPOINT RESIDENTIAL DESIGN LLC
 Office: (816)554-0400 Email: admin@viewpointdesign.net

Project Title:
HHF018 Spec
 Site Description:
Lot 18, Homestead at Hook Farms 1st Plat
 Street Address:
2034 SW Hook Farm Dr., Lee's Summit, Missouri
 General Contractor:
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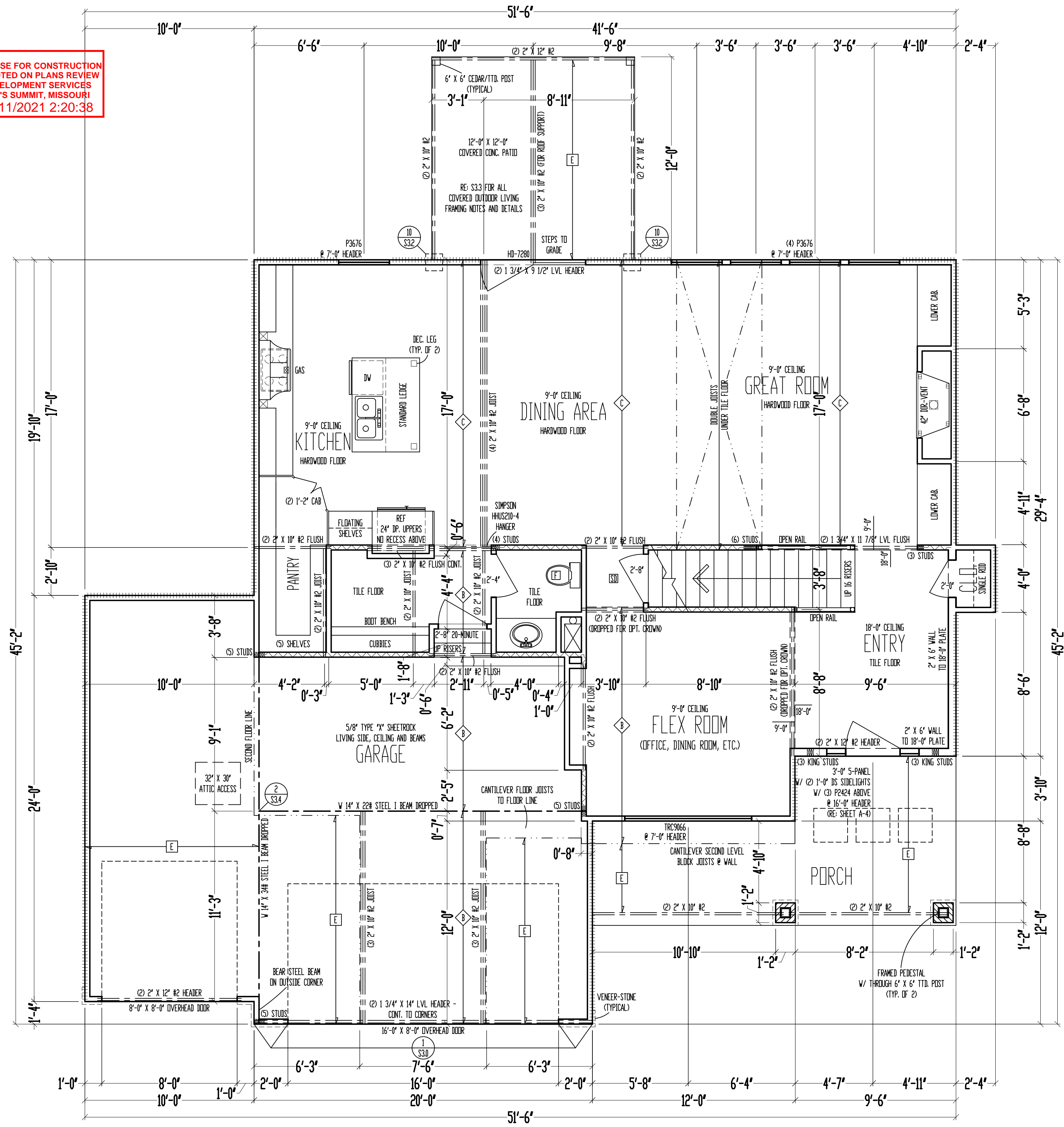


Date: 9 - 22 - AD 2021
 Rev. 1:
 Rev. 2:
 Rev. 3:

Sheet Title:
ROOF PLAN

Sheet No.:
A-3 of 6

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/11/2021 2:20:38



9'-0" CEILING
2" X 10" FLOOR SYSTEM ABOVE
MAIN LEVEL
SCALE: 1/4" = 1'-0"

MAIN LEVEL: 1163 SQ. FT.
SECOND LEVEL: 1304 SQ. FT.
TOTAL: 2467 SQ. FT.

GARAGE: 667 SQ. FT.
COV. OUT/LIV: 144 SQ. FT.
UNFIN. BASEMENT: 1065 SQ. FT.

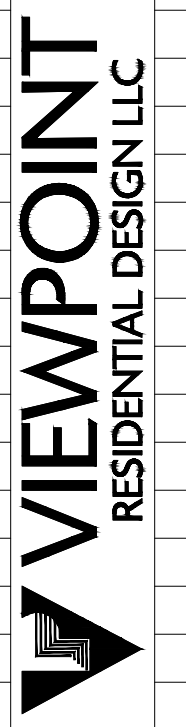
***** = WALL BRACING PER FRAMING NOTE #1 AND PER CALCULATIONS ON SHEET S11.

- FRAMING NOTES**
1. MAIN LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16" D.S.B. APA PANELS W/ 8d COMMON NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE FIELD. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 2. [Symbol] = G.B.: 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)
 3. [Symbol] = 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" @ 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.)
 13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:
(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM
(3) 1 3/4" LVL PLIES = 5 1/2" GLULAM
 14. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS.

JOIST SCHEDULE	
A	2" X 10" #3 FLOOR JOIST @ 16" O.C.
B	2" X 10" #2 FLOOR JOIST @ 16" O.C.
C	2" X 10" #2 FLOOR JOIST @ 16" O.C. - DOUBLE EVERY OTHER
D	2" X 6" #3 CEILING JOIST @ 16" O.C.
E	2" X 6" #2 CEILING JOIST @ 16" O.C.

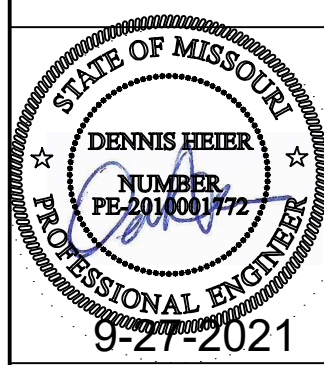
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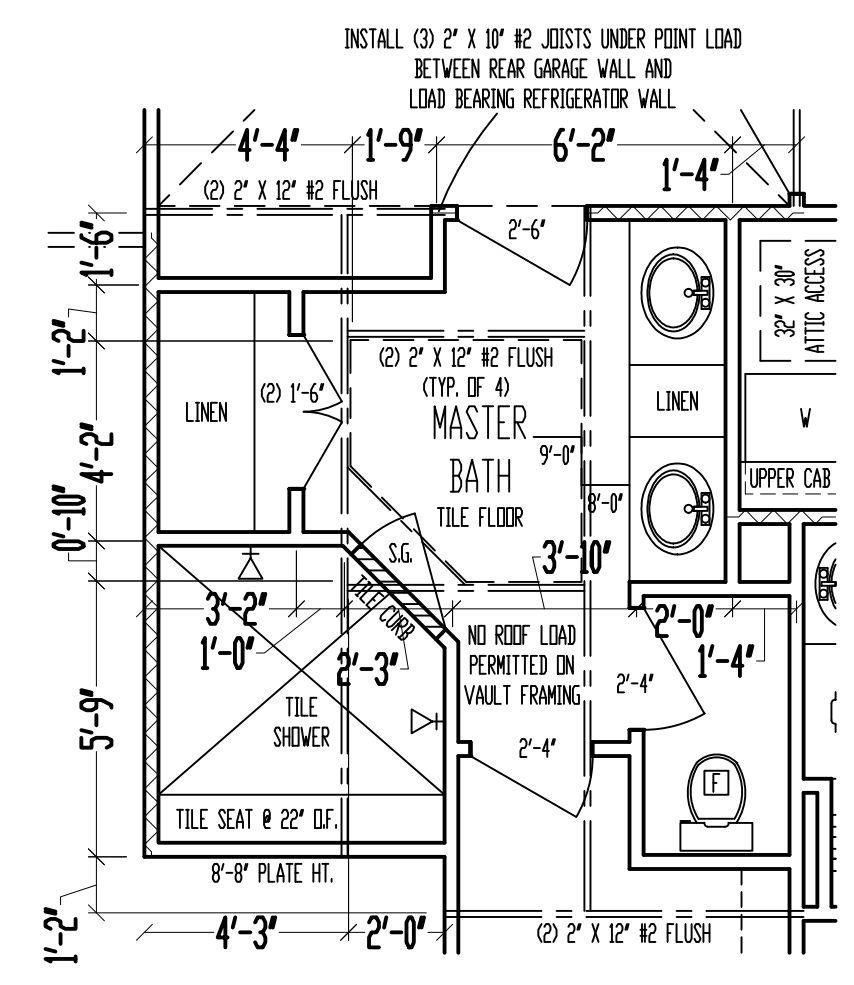
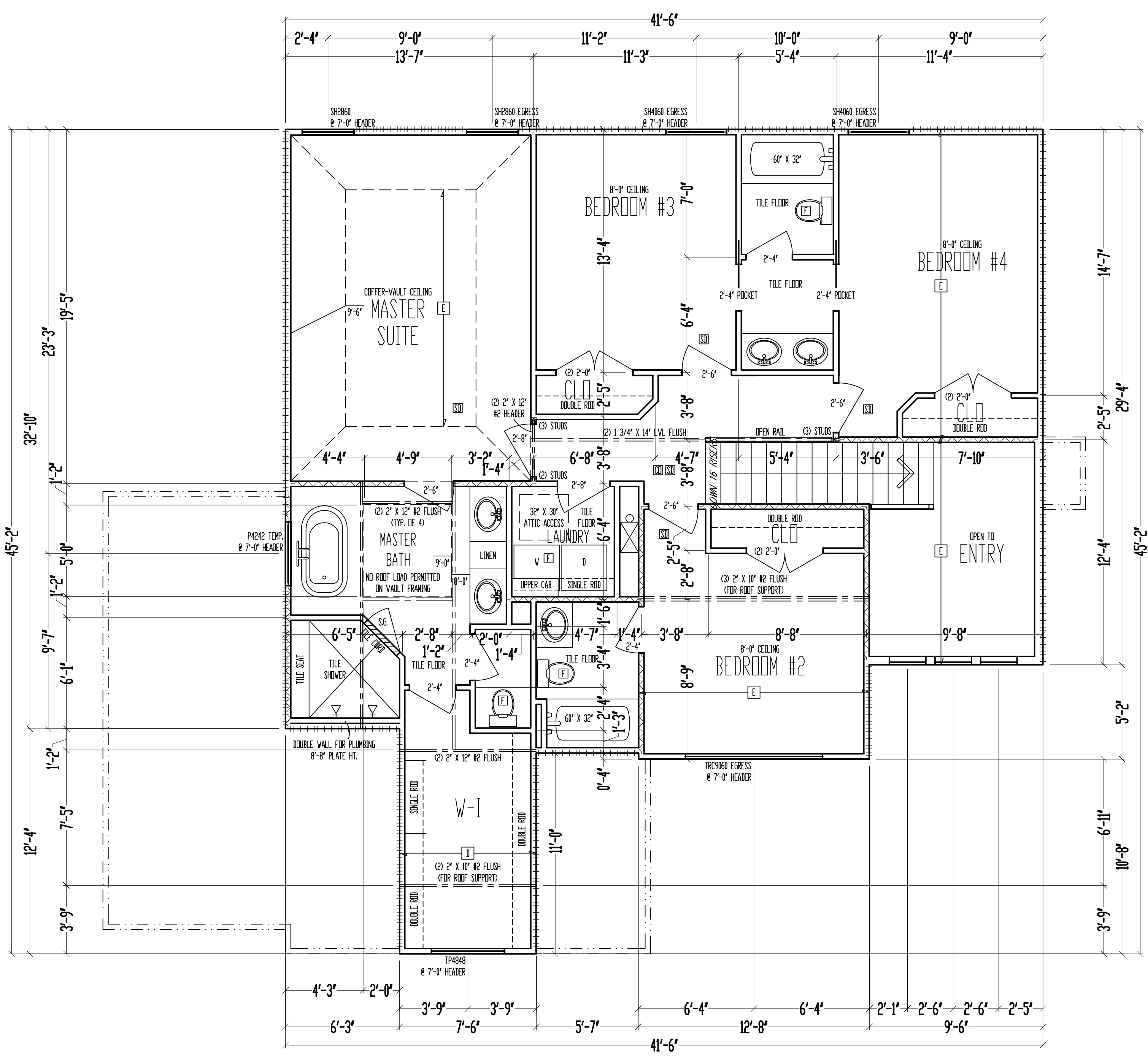
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General Contractor:
Walker Custom Homes, LLC



Date: 9-22-AD 2021
Rev. 1:
Rev. 2:
Rev. 3:

Sheet Title:
MAIN LEVEL PLAN

Sheet No.:
A-4 of 6



OPTION: NO WHIRLPOOL TUB OR WINDOW
SCALE: 1/4" = 1'-0"

8'-0" CEILING
SECOND LEVEL
SCALE: 1/4" = 1'-0"

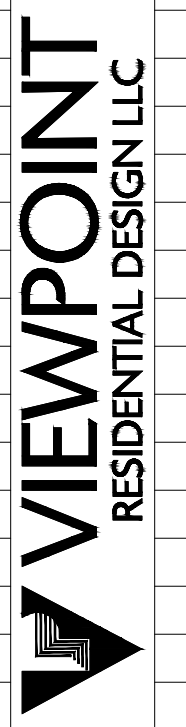
***** = WALL BRACING PER FRAMING NOTE #1 AND PER CALCULATIONS ON SHEET S11.

- FRAMING NOTES**
- SECOND LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16" O.S.B. APA PANELS W/ 8d COMMON NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE FIELD. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - ===== = GB: 1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX. FASTENED W/ NO. 6 - 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)
 - //////////////////// = LOAD BEARING INTERIOR WALL.
 - (2) 2" X 10" #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
 - LOW TIES @ 4'-0" O.C. (TYPICAL)
 - RUN STUDS THE FULL HEIGHT OF RAISED PILE 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.
 - EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS @ 16" O.C. MAX. (WHERE APPLICABLE.)
 - LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:
(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM
(3) 1 3/4" LVL PLIES = 5 1/2" GLULAM
 - CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS.

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

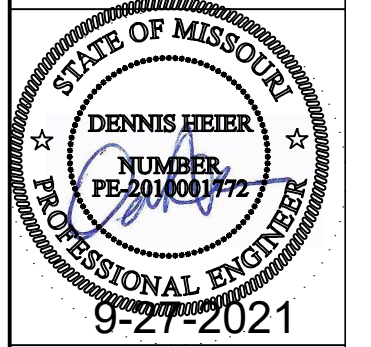
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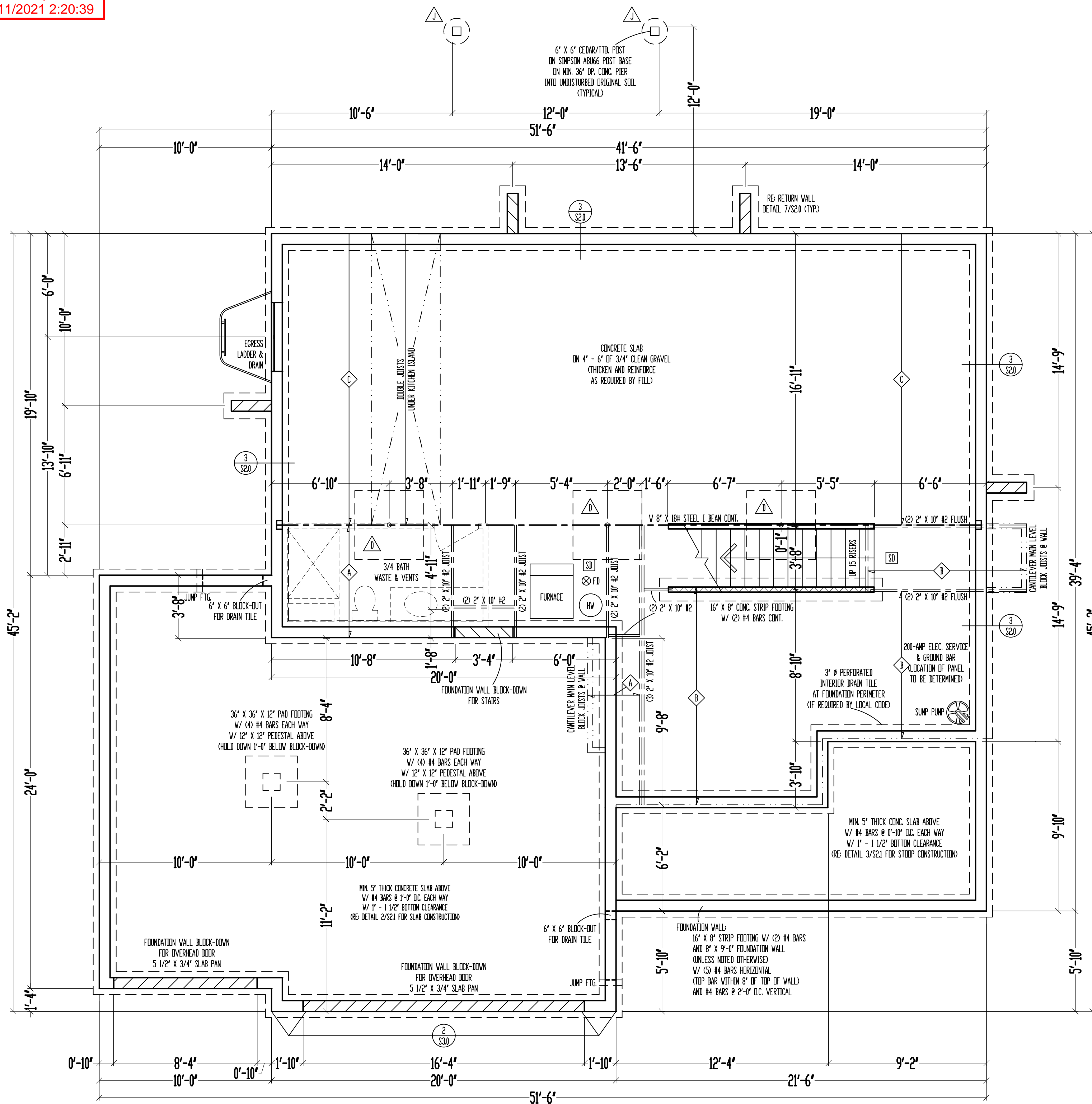
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Date: 9-22-AD 2021
Rev. 1:
Rev. 2:
Rev. 3:

Sheet Title:
SECOND LEVEL PLAN

Sheet No.:
A-5 of 6



9'-0" FOUNDATION WALLS
(UNLESS NOTED OTHERWISE)
ON 16" X 8" STRIP FOOTINGS
(STEP WHERE GRADE REQUIRES)

2" X 10" FLOOR SYSTEM ABOVE
FOUNDATION
SCALE: 1/4" = 1'-0"

***** WALL BRACING PER FRAMING NOTE #1 AND PER CALCULATIONS ON SHEET S11.

FRAMING NOTES

1. BASEMENT LEVEL EXTERIOR WOOD-FRAMED WALLS SHALL BE SHEATHED W/ 7/16" D.S.B. APA PANELS W/ 8d COMMON NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE FIELD. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. [Symbol] = G.B. 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)
3. [Symbol] = LOAD BEARING INTERIOR WALL.
4. (2) 2" X 10" #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
5. L.O.V. 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 1-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 4S @ 16" O.C., UNLESS NOTED OTHERWISE.
12. 1/2" @ ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" O.C. MAX. & WITHIN 6" - 12" OF END OF EACH PLATE LENGTH.
13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:
(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM
(3) 1 3/4" LVL PLIES = 5 1/2" GLULAM
14. 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 FOUND ON ANYTHING SHORT OF THE AFOREMENTIONED REQUIREMENTS.
15. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS.

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

JOIST SCHEDULE	
D	2" X 10" #2 TTD. FLOOR JOIST @ 16" O.C.
B	2" X 10" #2 FLOOR JOIST @ 16" O.C.
C	2" X 10" #2 FLOOR JOIST @ 16" O.C. - DOUBLE EVERY OTHER

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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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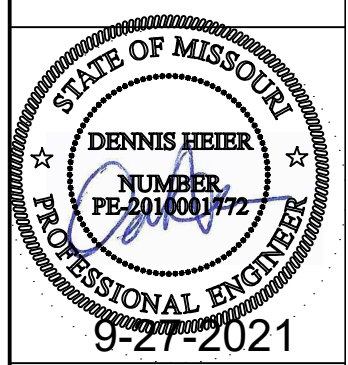
Office: (816) 554-0400 Email: admin@viewpointdesign.net

Project Title:
HHF018 Spec

Site Description:
Lot 18, Homestead at Hook Farms 1st Plat

Street Address:
2034 SW Hook Farm Dr., Lee's Summit, Missouri

General Contractor:
Walker Custom Homes, LLC



Date: 9-22-AD 2021
Rev. 1:
Rev. 2:
Rev. 3:

Sheet Title:
FOUNDATION PLAN

Sheet No.:
A-6 of 6

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS. Table with columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Section: ROOF.

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS. Table with columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Section: WALL.

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS. Table with columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Section: FLOOR.

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS. Table with columns: DESCRIPTION OF BUILDING MATERIALS, DESCRIPTION OF FASTENER, EDGE SPACING (INCHES), INTERMEDIATE SUPPORTS (INCHES). Section: WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING.

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS. Table with columns: DESCRIPTION OF BUILDING MATERIALS, DESCRIPTION OF FASTENER, EDGE SPACING (INCHES), INTERMEDIATE SUPPORTS (INCHES). Section: WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING.

1. IF INFORMATION LISTED ON PLAN SHEETS CONTRADICTS INFORMATION IN THIS TABLE, INFORMATION ON PLANS TAKES PRECEDENCE OVER INFORMATION LISTED IN THIS TABLE

FOUNDATION NOTES

- 1. 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... 2. THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION'S RESIDENTIAL FOUNDATION STANDARDS... 3. PROVIDE A MINIMUM 4"-DIAMETER PERFORATED DRAIN PIPE ALONG PERIMETER OF USABLE SPACE AT FOOTING LEVEL...

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...

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...

ATTIC VENTILATION

- 37. ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH 1/4" TO 1/2" OPENINGS...

EMERGENCY EGRESS

- 38. PROVIDE A MINIMUM OF ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPENABLE HEIGHT OF 2'-0" AND A MINIMUM WIDTH OF 1'-9"...

MASONRY VENEER

- 40. MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-RESISTANT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1/2"...

GARAGE NOTES

- 44. DOOR(S) BETWEEN THE GARAGE AND DWELLING SHALL BE MINIMUM 1 1/2" SOLID CORE OR HONEY-COMBED STEEL DOOR WITH 20-MINUTE FIRE RATING EQUIPPED WITH A SELF-CLOSING DEVICE...

GARAGE NOTES (CONTINUED)

- 44. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM 3/4" GYP. BOARD APPLIED TO THE GARAGE SIDE OF FRAMING... 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...

DESIGN LOADING (PER TABLE R301.5)

Table with columns: USE, LIVE LOAD (PSF), DEAD LOAD. Rows include: UNINHABITABLE ATTICS WITHOUT STORAGE, UNINHABITABLE ATTICS WITH LIMITED STORAGE, HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS, BALCONIES (EXTERIOR) AND DECKS, FIRE ESCAPES, GUARDRAILS AND HANDRAILS, GUARDRAIL IN-FILL COMPONENTS, PASSENGER VEHICLE GARAGES, ROOMS OTHER THAN SLEEPING ROOM, SLEEPING ROOM, STAIRS.

- 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... c. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4...

INSULATION/EFFICIENCY

- 1. BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.1 OR THE 2012 IECC (SEE SHEET S3.1 FOR FRAMING DETAILS AND TABLES ON THIS SHEET FOR MORE INFORMATION)... 2. CATHEDRAL -VAULTED CEILING FRAMING SHALL BE FRAMED WITH A MINIMUM INSULATION VALUE OF R-38...

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (TABLE N1102.1.1). Table with columns: CLIMATE ZONE, U-FACTOR, R-VALUE. Rows include: FENESTRATION U-FACTOR, SKYLIGHT U-FACTOR, GLAZED FENESTRATION SHGC, CEILING R-VALUE, WOOD FRAME WALL R-VALUE, MASS WALL R-VALUE, FLOOR R-VALUE, BASEMENT WALL R-VALUE, SLAB R-VALUE AND DEPTH, CRAWL SPACE WALL R-VALUE, DUCTWORK EXPOSED TO OUTSIDE AIR R-VALUE, DUCTWORK NOT EXPOSED TO OUTSIDE AIR R-VALUE, CATHEDRAL VAULTED CEILING R-VALUE.

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: 1. AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS... 2. 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...

- DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING: 1. 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... 2. ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE SYSTEM...

MECHANICAL VENTILATION SYSTEM FAN EFFICACY. Table with columns: FAN LOCATION, AIR FLOW RATE (CFM), MINIMUM EFFICACY (CFM/WATT), AIR FLOW RATE MAXIMUM (CFM). Rows include: RANGE HOODS, IN-LINE FAN, BATHROOM, UTILITY ROOM, BATHROOM, UTILITY ROOM.



CLIENT: WALKER CUSTOM HOMES, LLC. JOB TITLE: HHF018 SPEC LOT 18, HOMESTEAD AT HOOK FARMS 1st PLAT. LOCATION: 2034 SW HOOK FARM DR. LEE'S SUMMIT, MISSOURI



DRAWING TITLE: STRUCTURAL NOTES. ENGINEER: DMH. CHECKED BY: DMH. JOB NO: 3919. DRAWN BY: DMH. DATE: 09-27-21. SHEET NUMBER: S1.0

RESIDENTIAL SEISMIC & WIND ANALYSIS

DETERMINE WEIGHT OF HOUSE:		INPUT		CALCULATED VALUE	
LOCATION		DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (lbs.)	
ROOF		10	1974	19740	
CEILING		10	1974	19740	
SECOND FLOOR		10	1304	13040	
FIRST FLOOR		10	1974	19740	
SECOND FLOOR EXT. WALL DL	WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)	
FIRST FLOOR EXT. WALL DL	173.34	9	9	14040.54	
	193.34	10	10	19334	
		DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (lbs)	
SECOND FLOOR INT. PARTITION WALL DL		6	1304	7824	
FIRST FLOOR INT. PARTITION WALL DL		6	1974	11844	

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		
SLOPED ROOF	AREA	LOAD	SLOPED ROOF	AREA	LOAD
VERT. ROOF	25	342	VERT. ROOF	0	0
2ND	415	5871	2ND	451.7	6299
1ST	566.5	7739	1ST	496.87	6928
BSMT*	0	0	BSMT*	82	1427
PRESSURE (PSF) - PER ASCE CH. 6			PRESSURE (PSF) - PER ASCE CH. 6		
SLOPED ROOF	ZONE B	5.9	ZONE C	11.6	2a (FIG. 28.6-1, ASCE7)
WALL/VERT. ROOF	ZONE A	17.4	ZONE D	3.4	2a (FIG. 28.6-1, ASCE7)
MEAN ROOF HT., ft		30			9.034

SEISMIC SHEAR		From ASCE7 (Eq. 12.8-1):		V (= 1.2 * S _{DS} * W / R) (lbs.)	
LOCATION					
2ND FLOOR					1099
1ST FLOOR					1986
BASEMENT					1986

Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Shear (#/LF)	Code Reference
Exterior (Option #1)	7/16" APA Rated Plywood/OSB	1-1/2" 16gs. Staples w/ 1" penetration @ 6" O.C. Edges, 8" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	165	per IBC, Table 2306.3(1)
Exterior (Option #2)	7/16" APA Rated Plywood/OSB	1-1/2" 16gs. Staples w/ 1" penetration @ 4" O.C. Edges, 8" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	230	per IBC, Table 2306.3(1)
Exterior (Option #3)	7/16" APA Rated Plywood/OSB	1-1/2" 16gs. Staples w/ 1" penetration @ 3" O.C. Edges, 8" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	310	per IBC, 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 IBC, 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 SECOND FLOOR	4	WIDTH OF 1ST STORY (FT.)	51.5	WIDTH OF 2ND STORY (FT.)	41.5
EXTERIOR SHEATHING OPTION FOR FIRST FLOOR	5	DEPTH OF 1ST STORY (FT.)	45.17	DEPTH OF 2ND STORY (FT.)	45.17
EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS	5	BACK WALL OF GARAGE (FT.)	0		
		GAR. WALL: 1=F-B, 2=S-S	2		

EXTERIOR STRUCTURAL WALL LENGTHS (ft.) & RESISTANCES								
	SEISMIC				WIND			
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)
2ND FLOOR	60	16800	39.5	11060	60	23520	39.5	15484
1ST FLOOR	70	26600	32	12160	70	37240	32	17024
BASEMENT	0	0	17.5	6650	0	0	17.5	9310

	ADDITIONAL RESISTANCE REQUIRED		Anchor Bolt Spacing (in.)		16d Nail Spacing req'd at bottom plate (in.)	
	SEISMIC	WIND	diameter (in.)	spacing (inches)	2nd Floor F-B	2nd Floor S-S
2ND FLOOR FRONT-TO-BACK	0	0	0.5	944	39	39
2ND FLOOR SIDE-TO-SIDE	0	0	111.0	132.2	17	17
1ST FLOOR FRONT-TO-BACK	0	0			20	20
1ST FLOOR SIDE-TO-SIDE	0	0				
BASEMENT FRONT-TO-BACK	0	0				
BASEMENT SIDE-TO-SIDE	0	0				

RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS**							
	ADDITIONAL RESISTANCE REQUIRED (POUNDS)	PORTAL FRAMES OR PERFOR. SHEAR WALL RESISTANCE	INTERIOR X-BRACES (325#/BRACE)	INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?
2ND FLOOR FRONT-TO-BACK	0					0	YES
2ND FLOOR SIDE-TO-SIDE	0					0	YES
1ST FLOOR FRONT-TO-BACK	0					0	YES
1ST FLOOR SIDE-TO-SIDE	0					0	YES
BASEMENT FRONT-TO-BACK	0					0	YES
BASEMENT SIDE-TO-SIDE	0					0	YES

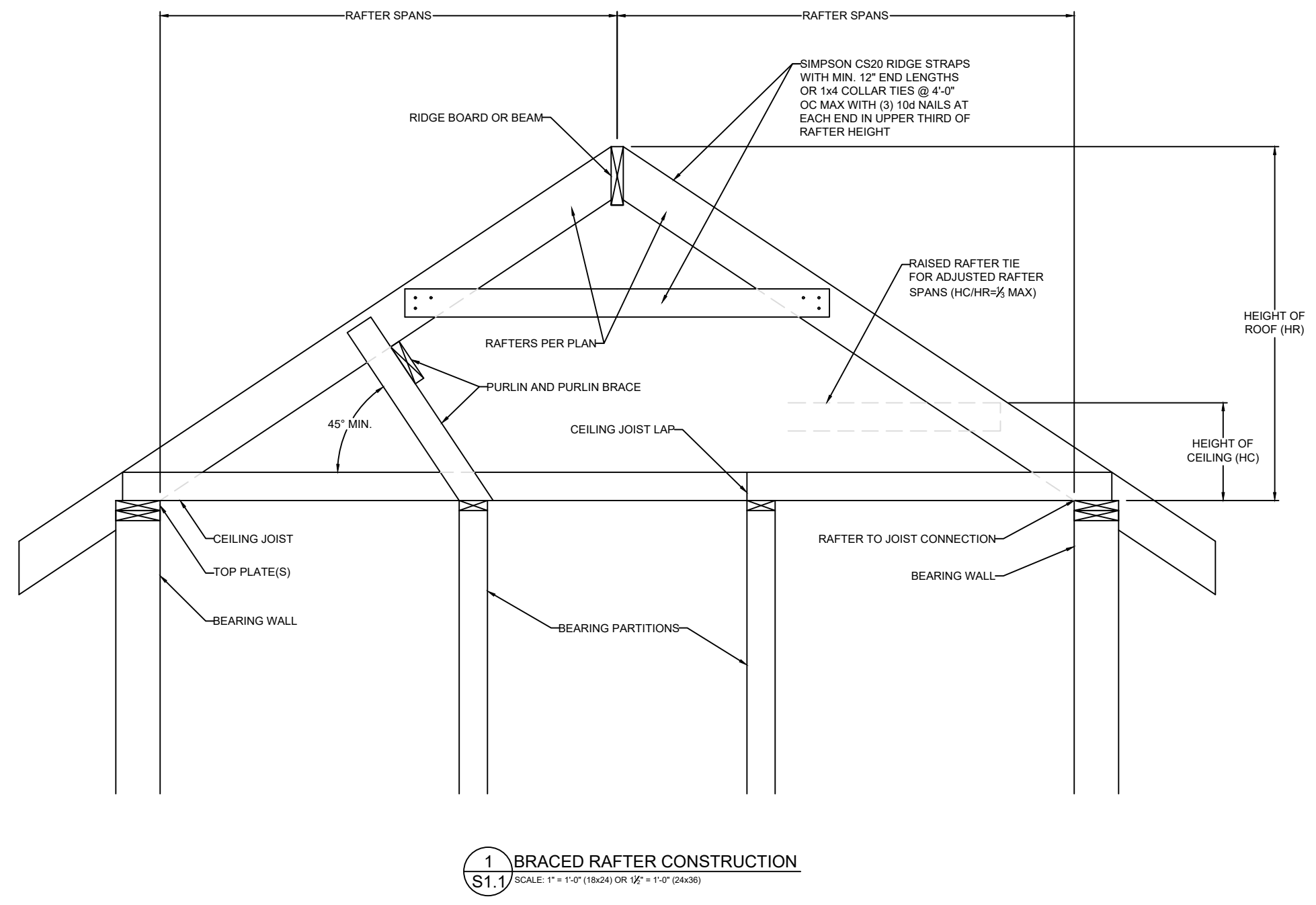
**NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE);
2) SEE SHEET S1 FOR INTERIOR STEEL X-BRACE INSTALLATION; 3) INTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SAME STAPLE/NAILING PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE TABLE ABOVE) AND ARE ONLY APPLICABLE FOR FULL-HEIGHT SECTIONS OF 2'-0" 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				
	5	22.6					
ASCE 7							
OVERHANG	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)			
	1	16.56	196.34	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)
2326.255		1239.500936	1086.754064	15.12	10.5	30152	156.0
*ALONG PERIMETER				TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)		172.5	
**INSIDE EXTERIOR WALLS				RESISTANCE DUE TO DEAD WEIGHT & (3) 16d TOENAILS		251.6	
						UPLIFT OK	

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



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

VISTA
STRUCTURAL
ENGINEERING, LLC

14718 NW DELIA STREET * PORTLAND, OREGON 97229
OFFICE: 971.255.6099 * MOBILE: 971.255.6099 *
EMAIL: DENNIS@VISTASTRUCTURAL.COM

CLIENT: WALKER CUSTOM HOMES, LLC
JOB TITLE: HHF018 SPEC
LOT 18, HOMESTEAD AT HOOK FARMS
1st PLAT
LOCATION: 2034 SW HOOK FARM DR.
LEE'S SUMMIT, MISSOURI

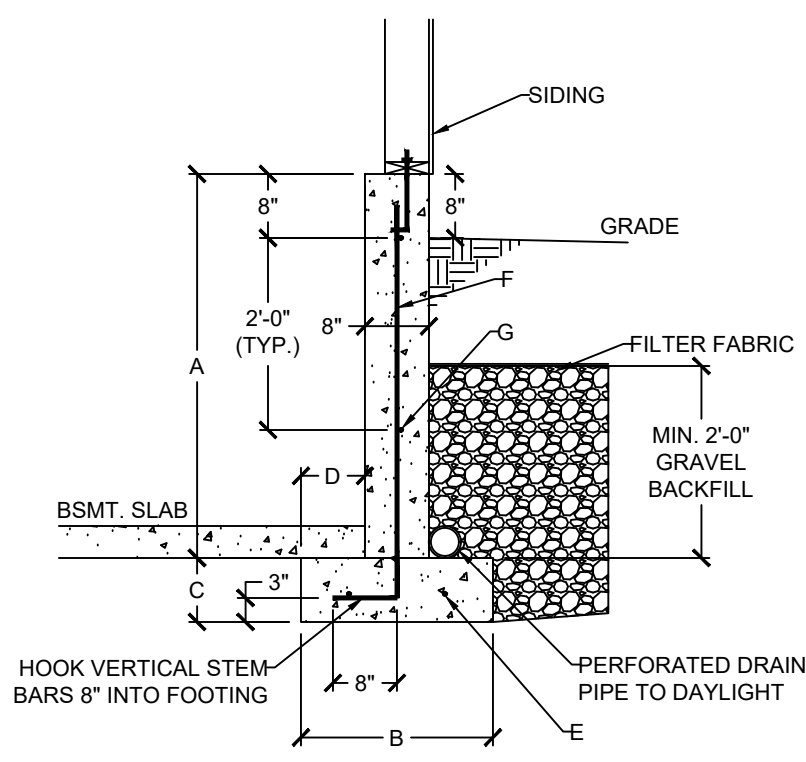
STATE OF MISSOURI
DENNIS HBIER
NUMBER: PE-2014001772
PROFESSIONAL ENGINEER
9-27-2021

NO.	DATE	REVISION	BY

DRAWING TITLE
STRUCTURAL CALCULATIONS

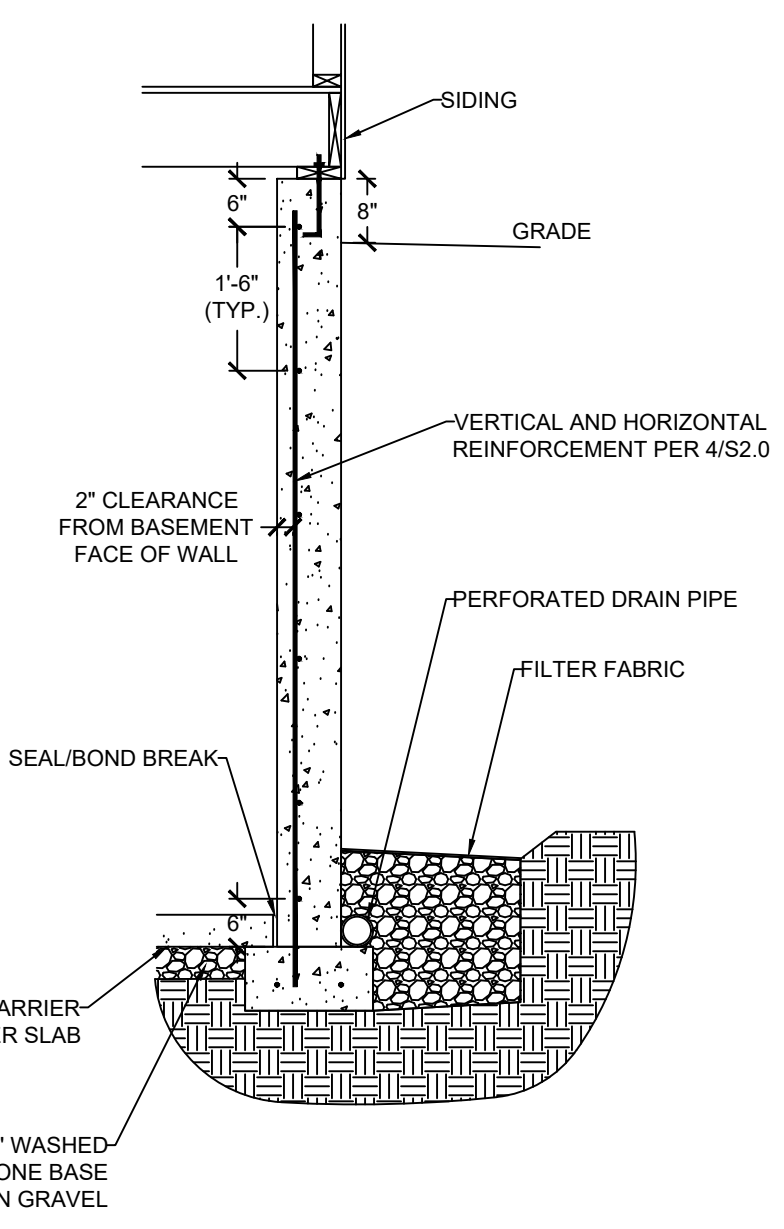
ENGINEER: DMH CHECKED BY: DMH
JOB NO. 3919 DRAWN BY: DMH
DATE: 09-27-21

SHEET NUMBER
S1.1

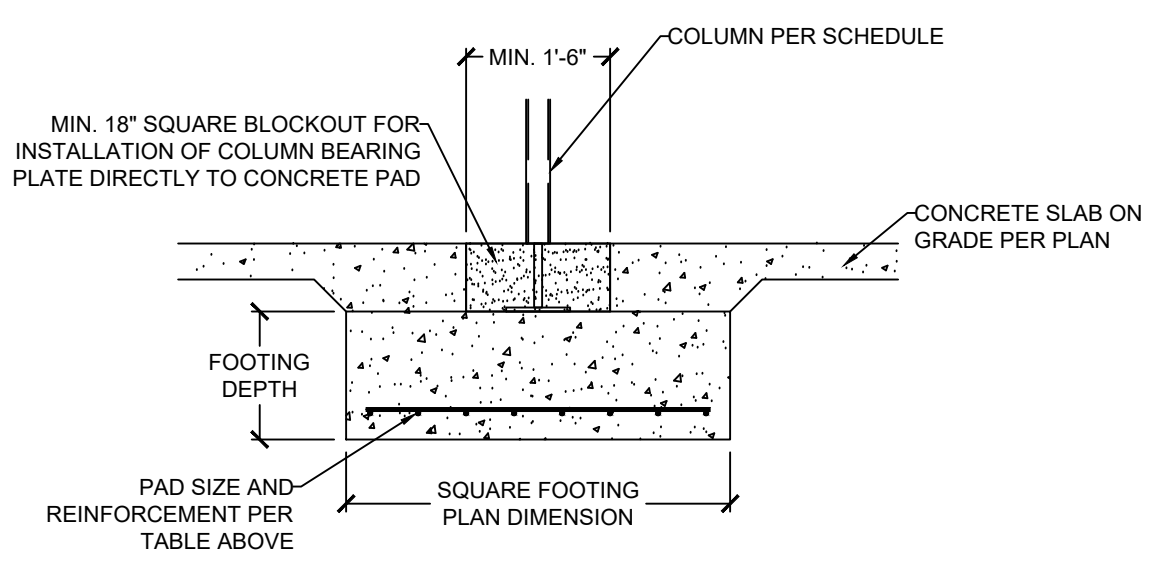


1 DAYLIGHT WALL CONSTRUCTION
 S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

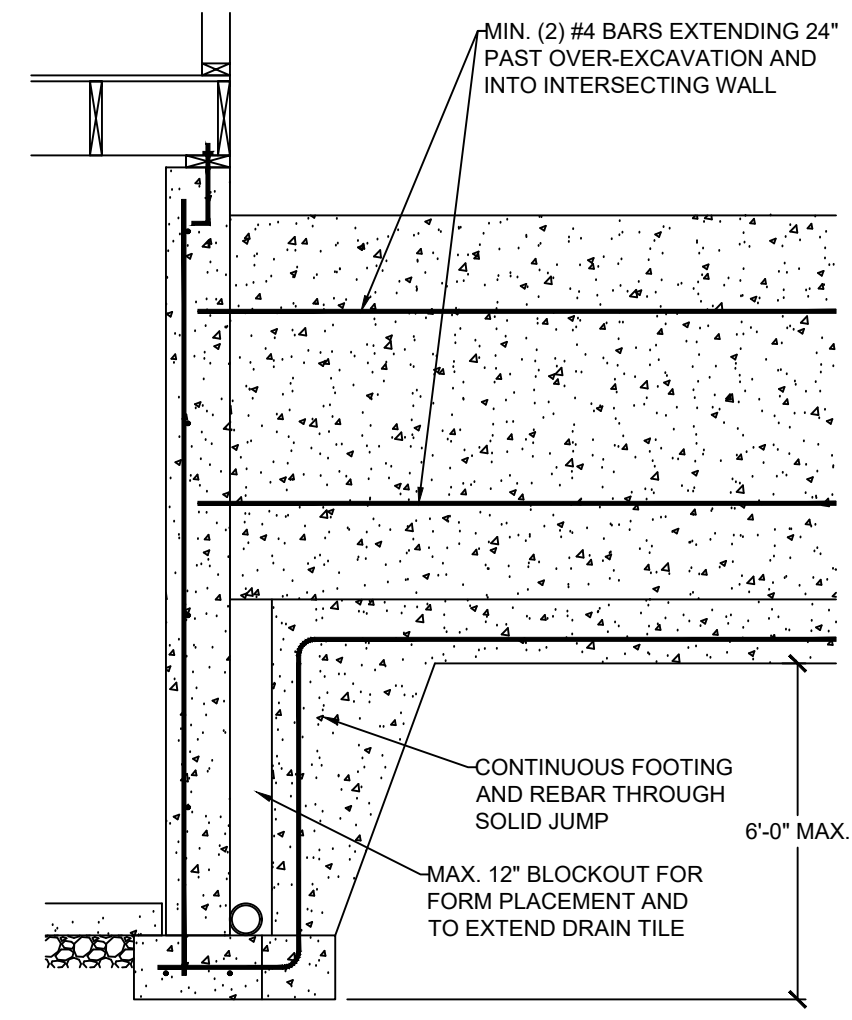
DAYLIGHT BASEMENT WALL SCHEDULE						
A	B	C	D	E	F	G
4'-0"	1'-6"	0'-8"	0'-5"	(2) #4	#4 VERT. @ 12" O.C.	(2) #4 HORIZ.
5'-0"	2'-0"	0'-8"	0'-7"	(2) #4	#4 VERT. @ 12" O.C.	(3) #4 HORIZ.
6'-0"	2'-6"	0'-8"	0'-10"	(3) #4	#4 VERT. @ 12" O.C.	(3) #4 HORIZ.



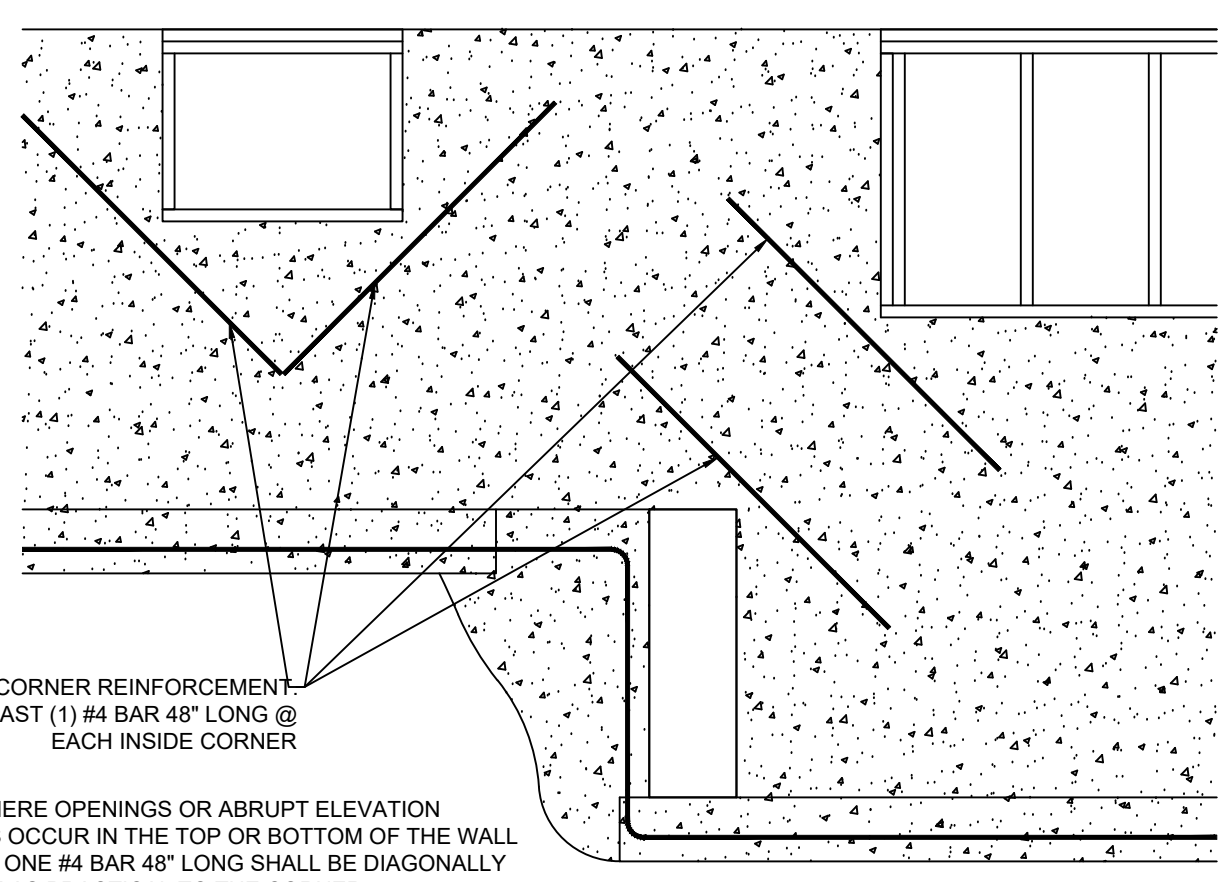
3 CONCRETE WALL SECTION
 S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



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)

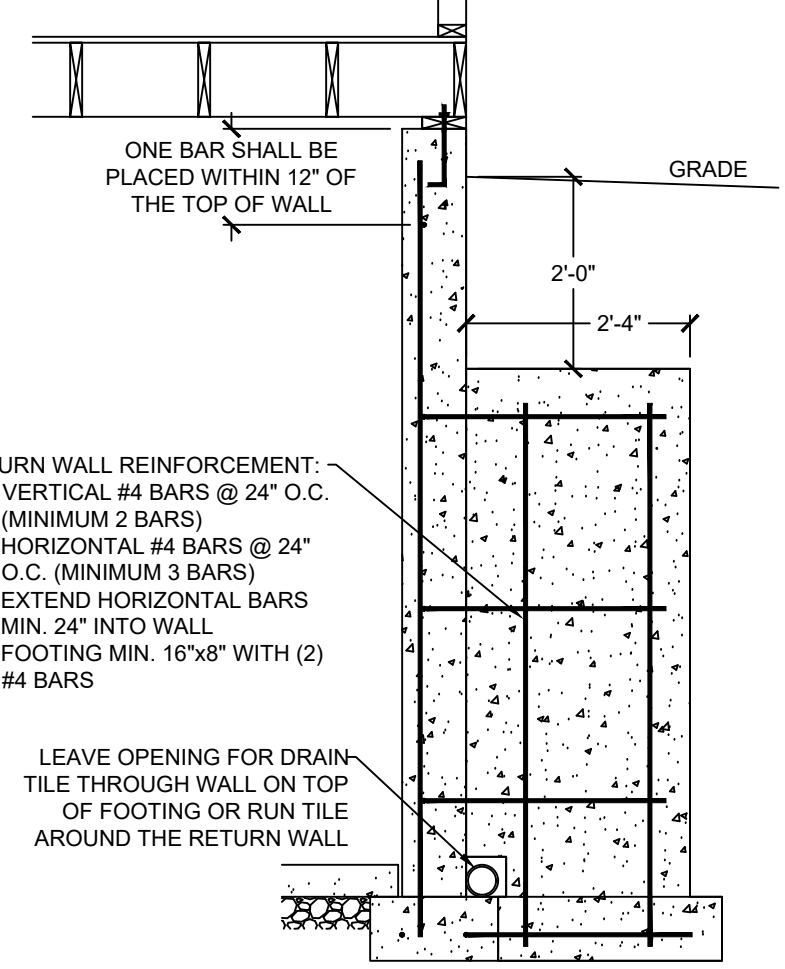
CONCRETE STRENGTH/GRADE REINFORCEMENT (#4 BARS)	8" THICK WALL			10" THICK WALL		
	8'	9'	10'	8'	9'	10'
3,000 PSI/ GRADE 40	24	24	16	24	24	18
3,500 PSI/ GRADE 40	24	24	16	24	24	18
3,000 PSI/ GRADE 60	24	24	16	24	24	18
3,500 PSI/ GRADE 60	24	24	16	24	24	18

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

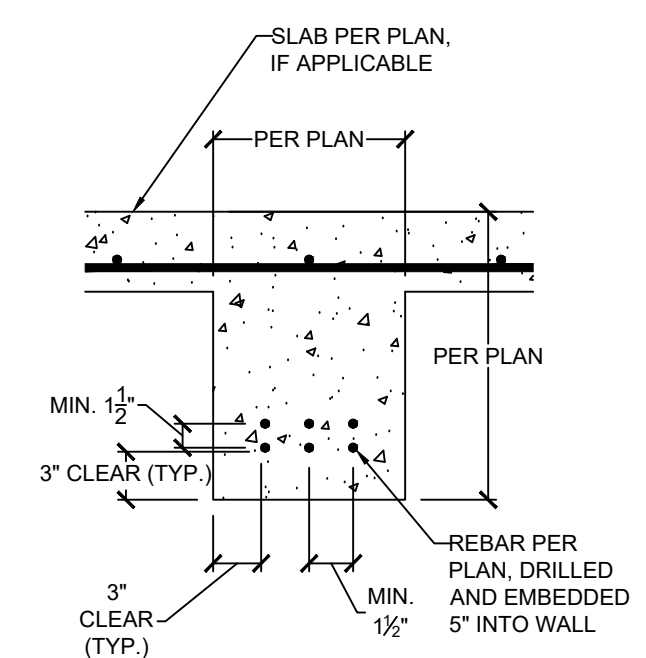
4 FOUNDATION WALL REINFORCEMENT TABLE
 S2.0 NO SCALE

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



- RETURN WALL REINFORCEMENT:
- VERTICAL #4 BARS @ 24" O.C. (MINIMUM 2 BARS)
 - HORIZONTAL #4 BARS @ 24" O.C. (MINIMUM 3 BARS)
 - EXTEND HORIZONTAL BARS MIN. 24" INTO WALL
 - FOOTING MIN. 16"x8" WITH (2) #4 BARS

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 1/2" = 1'-0" (24x36)

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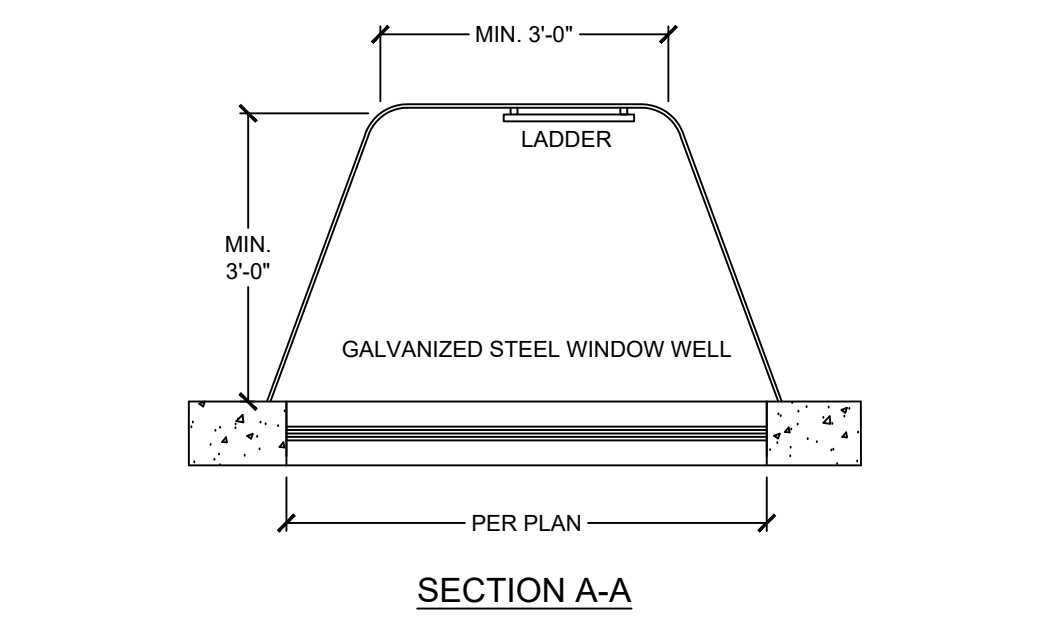
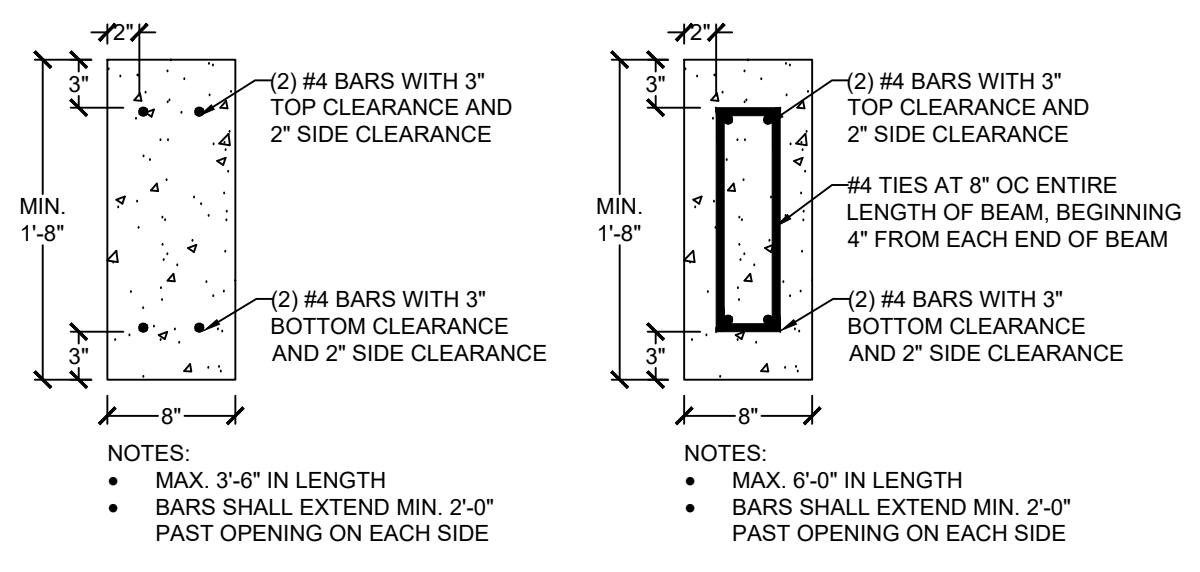
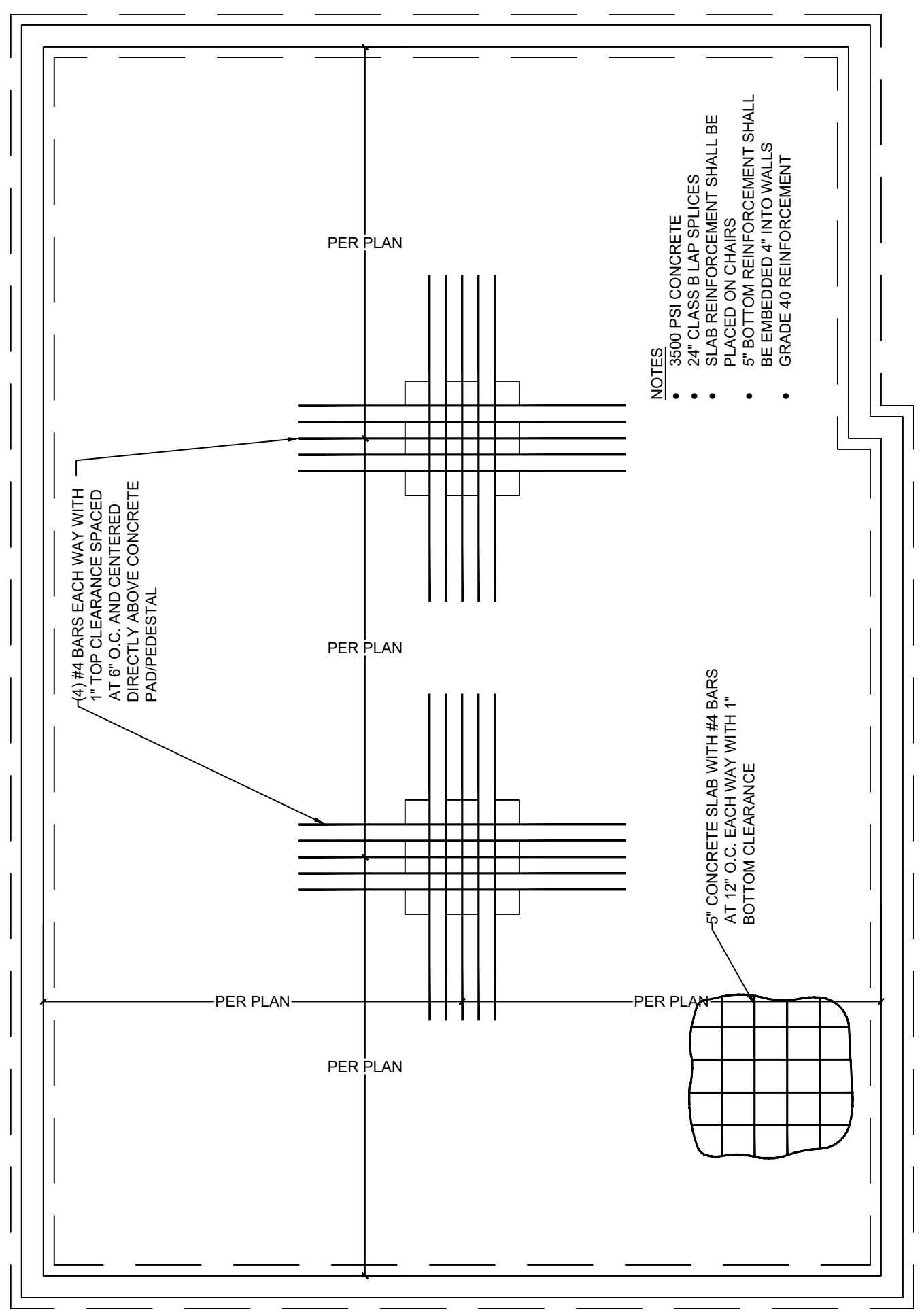
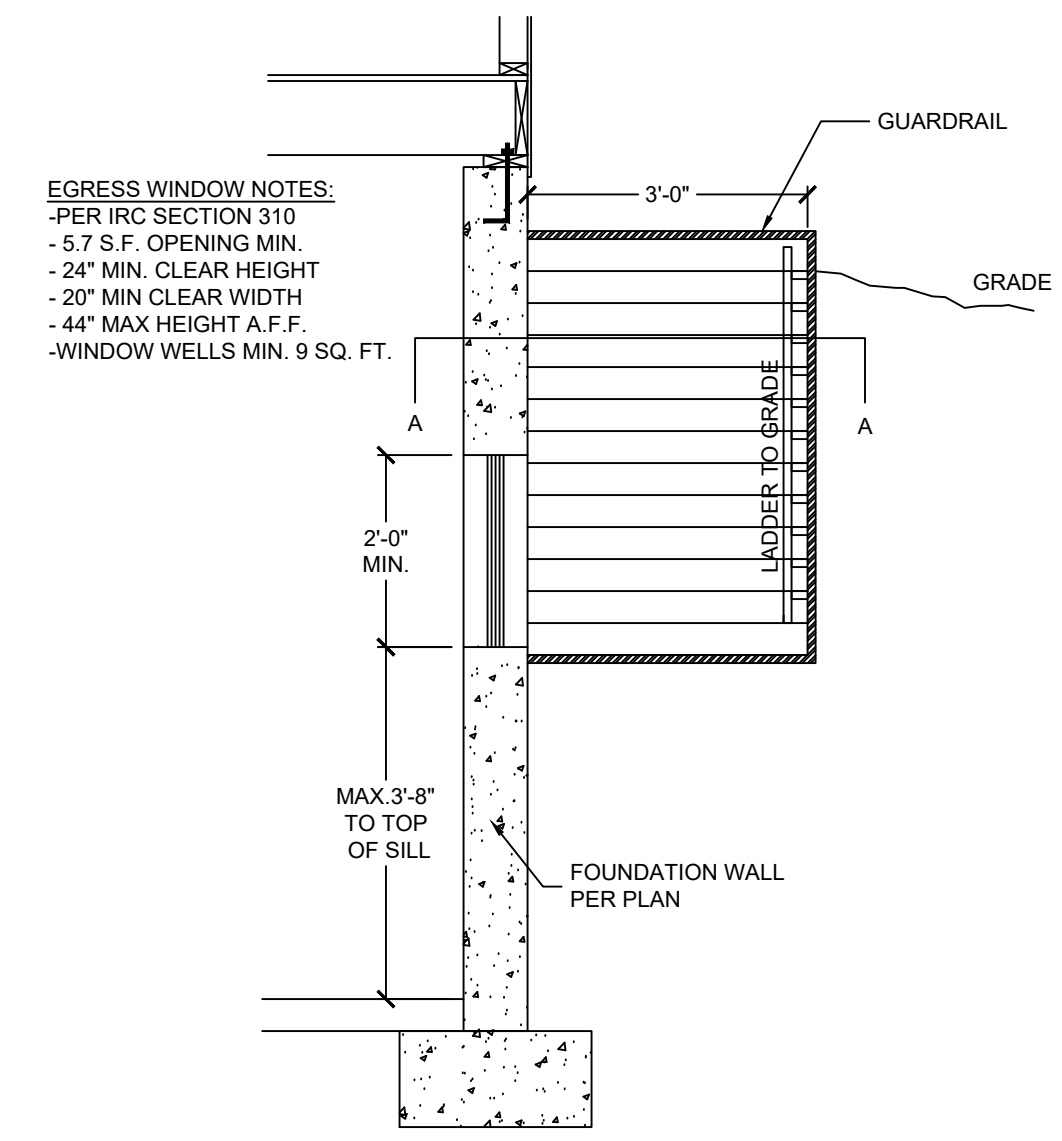
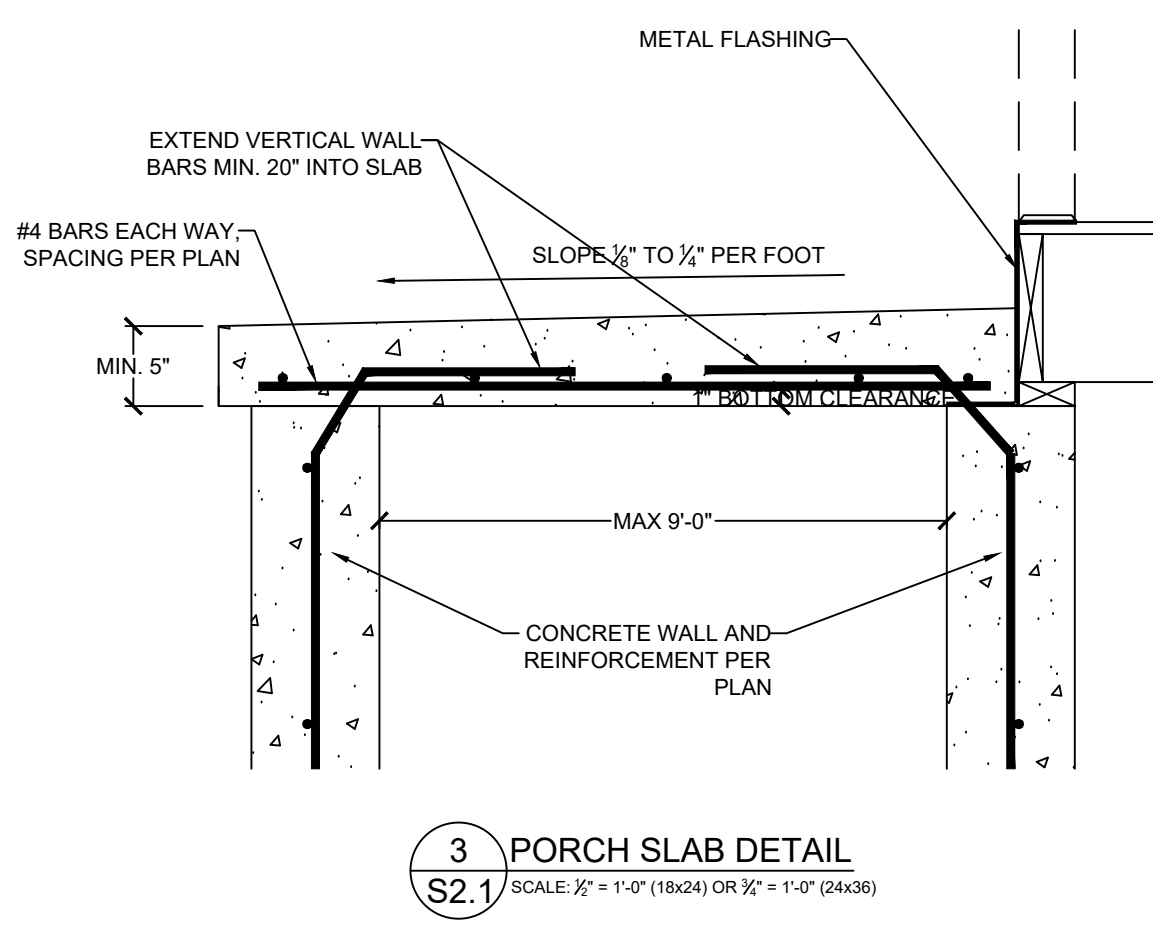
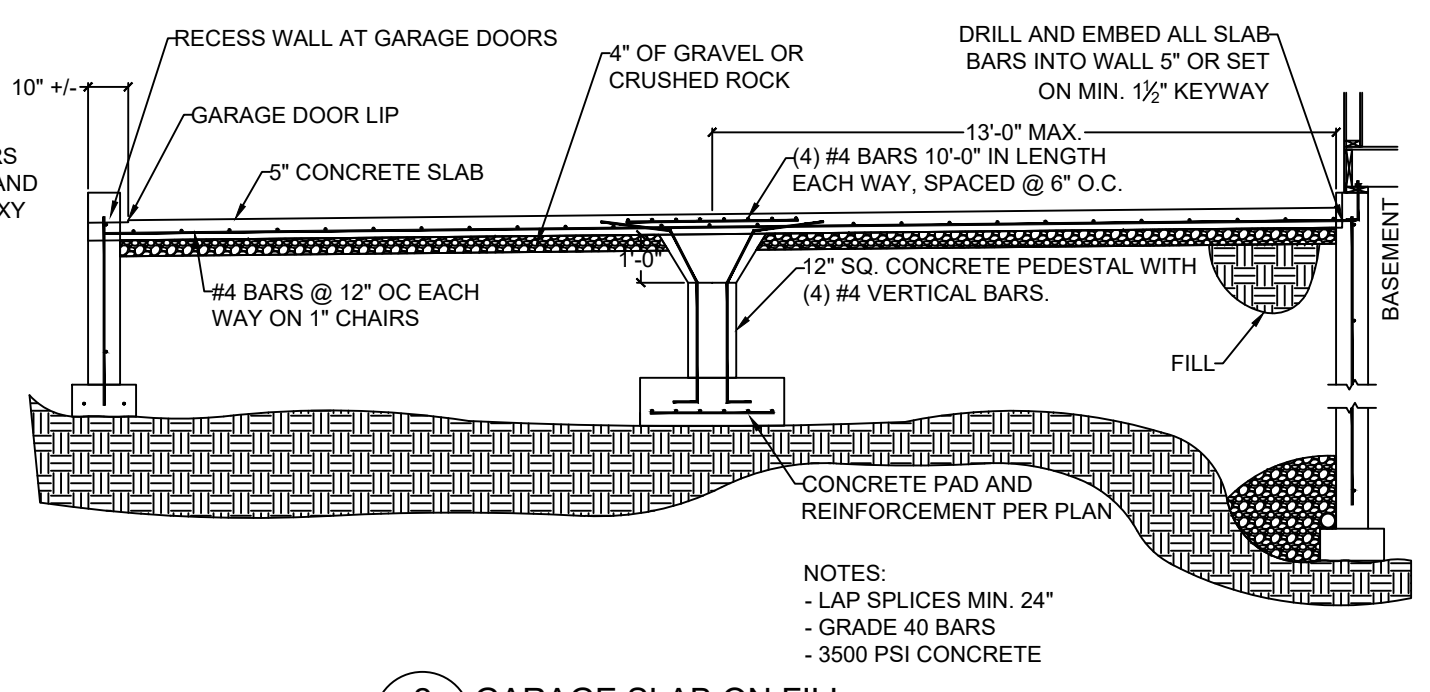
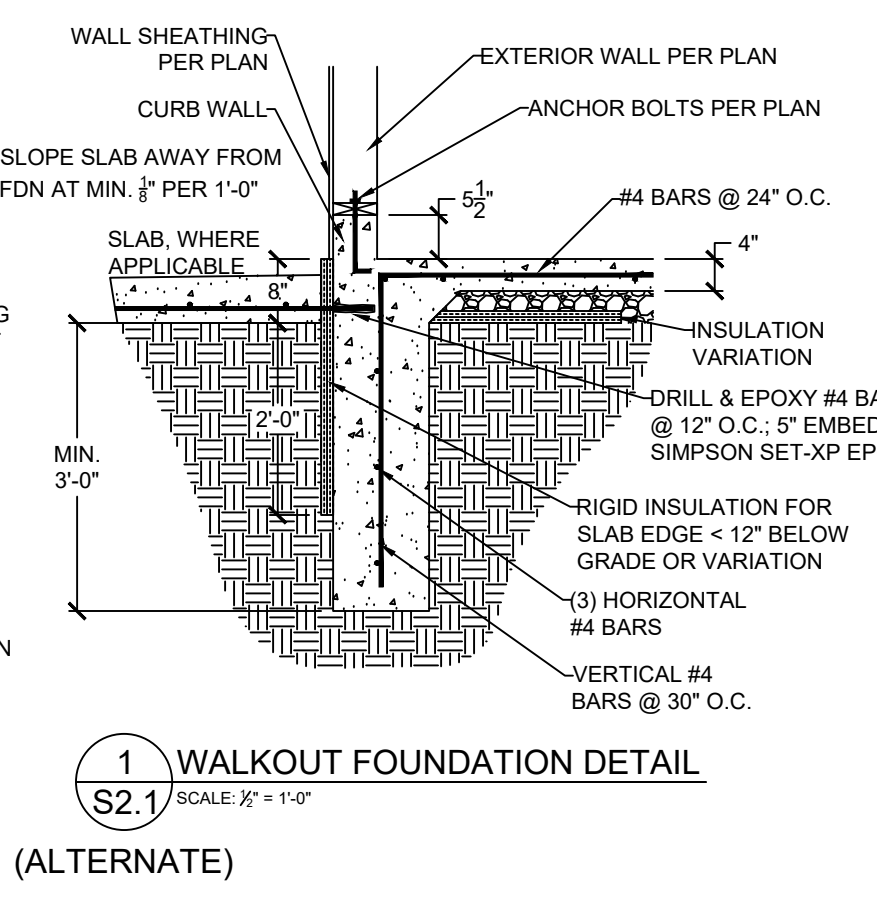
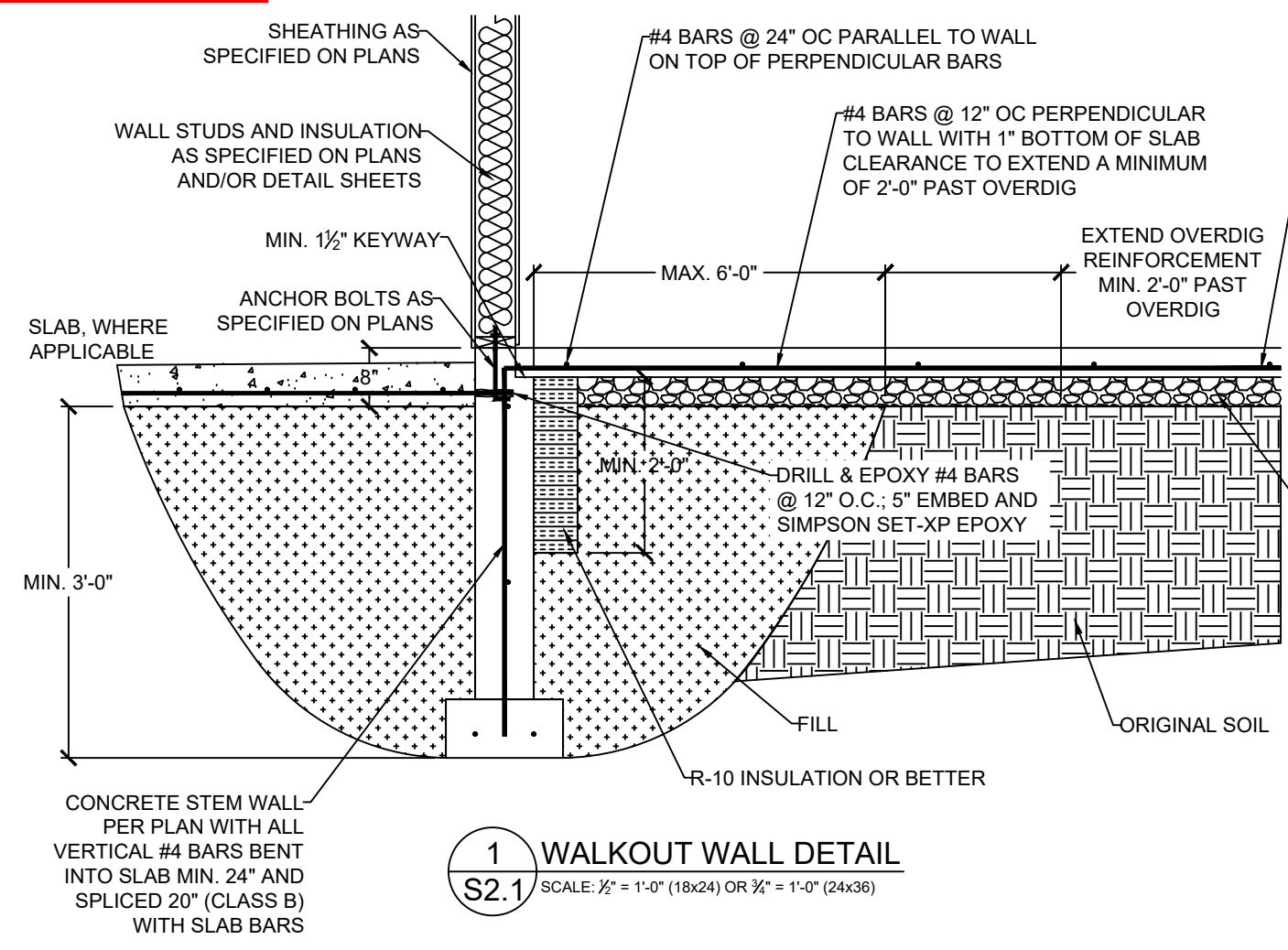
CLIENT: WALKER CUSTOM HOMES, LLC
 JOB TITLE: HHF018 SPEC
 LOT 18, HOMESTEAD AT HOOK FARMS
 1st PLAT
 LOCATION: 2034 SW HOOK FARM DR.
 LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
 DENNIS HEIER
 NUMBER: PE-2014001772
 PROFESSIONAL ENGINEER
 9-27-2021

NO.	DATE	REVISION	BY

DRAWING TITLE
FOUNDATION DETAILS

ENGINEER: DMH CHECKED BY: DMH
 JOB NO: 3919 DRAWN BY: DMH
 DATE: 09-27-21
 SHEET NUMBER
S2.0



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CLIENT: WALKER CUSTOM HOMES, LLC
 JOB TITLE: HHF018 SPEC
 LOT 18, HOMESTEAD AT HOOK FARMS
 1st PLAT

LOCATION: 2034 SW HOOK FARM DR.
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 DENNIS HEIER
 NUMBER
 PE-2010001772
 PROFESSIONAL ENGINEER
 9-27-2021

NO.	DATE	REVISION	BY

DRAWING TITLE
FOUNDATION DETAILS

ENGINEER: DMH CHECKED BY: DMH
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S2.1

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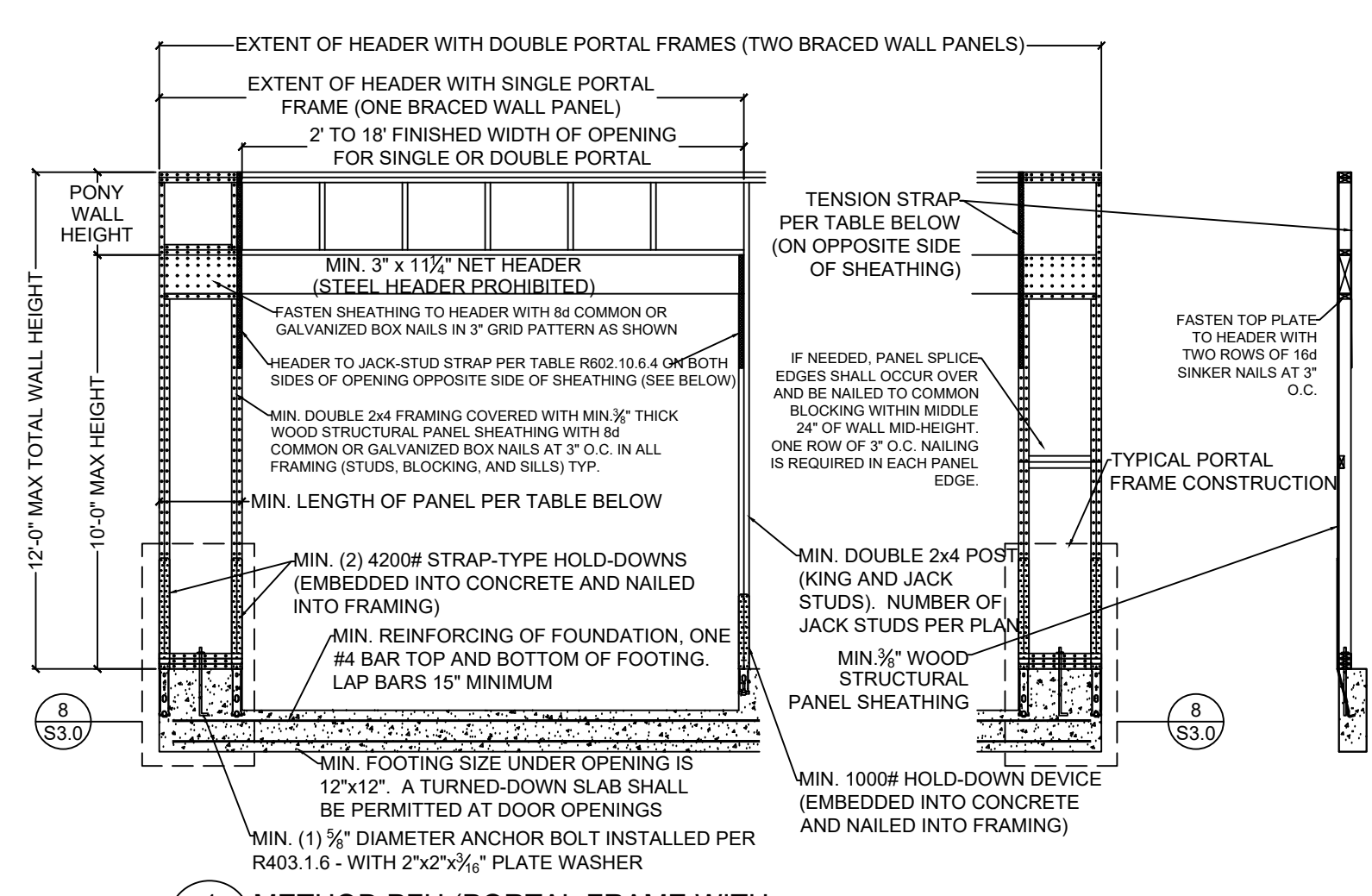
CLIENT: WALKER CUSTOM HOMES, LLC
JOB TITLE: HHF018 SPEC
LOT 18, HOMESTEAD AT HOOK FARMS
1st PLAT
LOCATION: 2034 SW HOOK FARM DR.
LEE'S SUMMIT, MISSOURI

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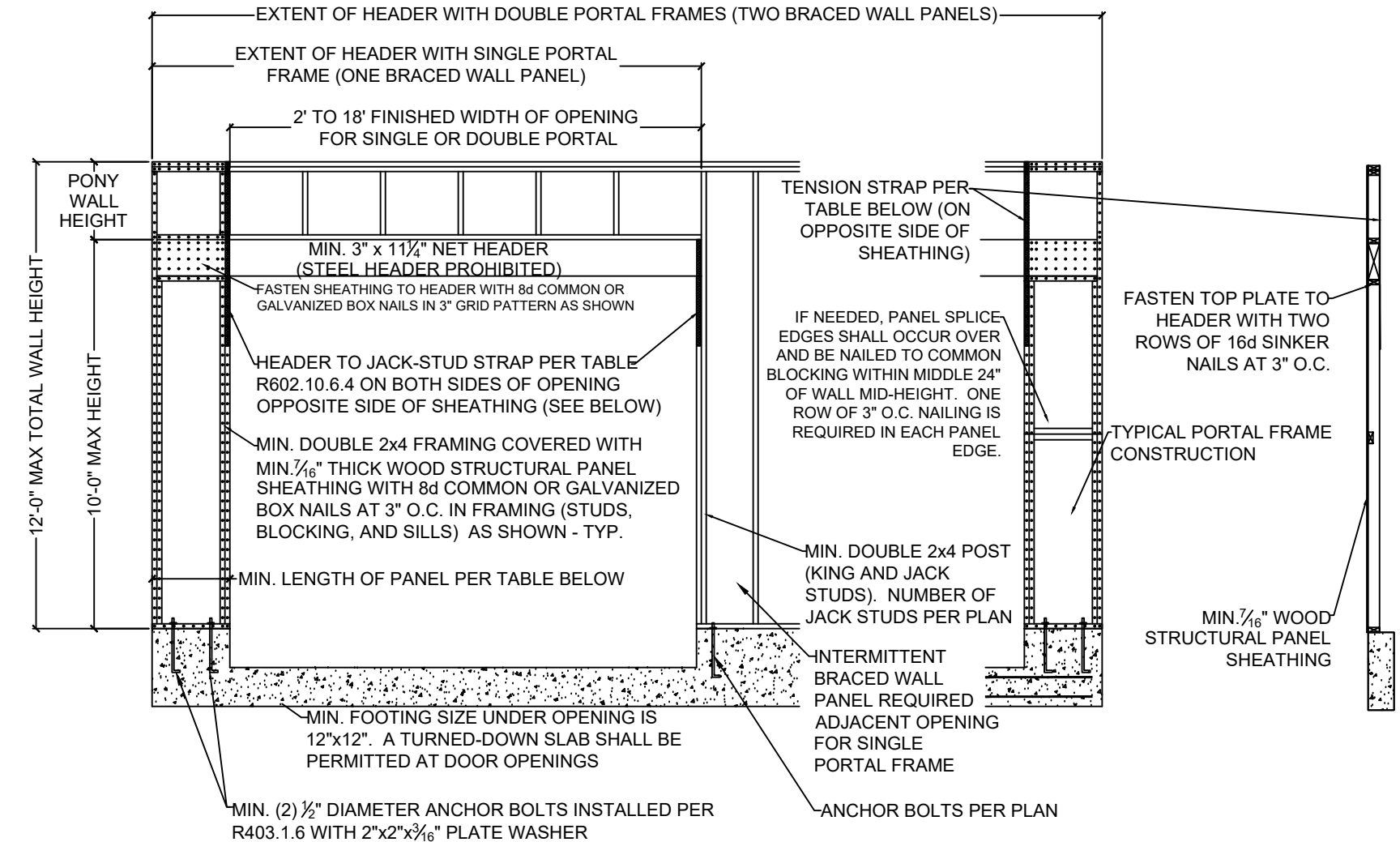
DRAWING TITLE
FRAMING DETAILS

ENGINEER: DMH CHECKED BY: DMH
JOB NO: 3919 DRAWN BY: DMH
DATE: 09-27-21
SHEET NUMBER
S3.0



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)

	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

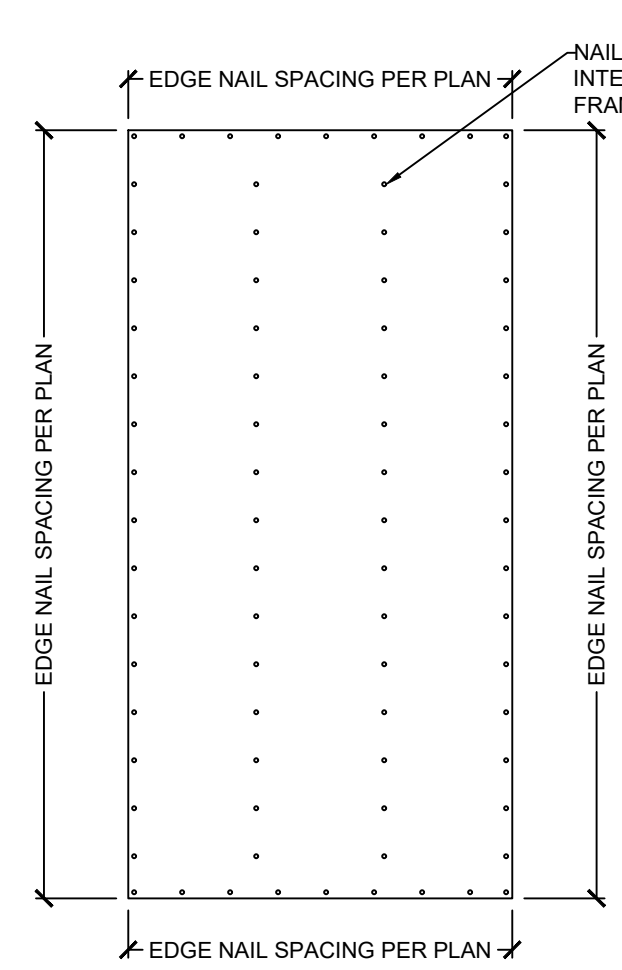


2 METHOD PFG (PORTAL FRAME AT GARAGE DOOR) - PER FIGURE IRC R602.10.6.3
SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

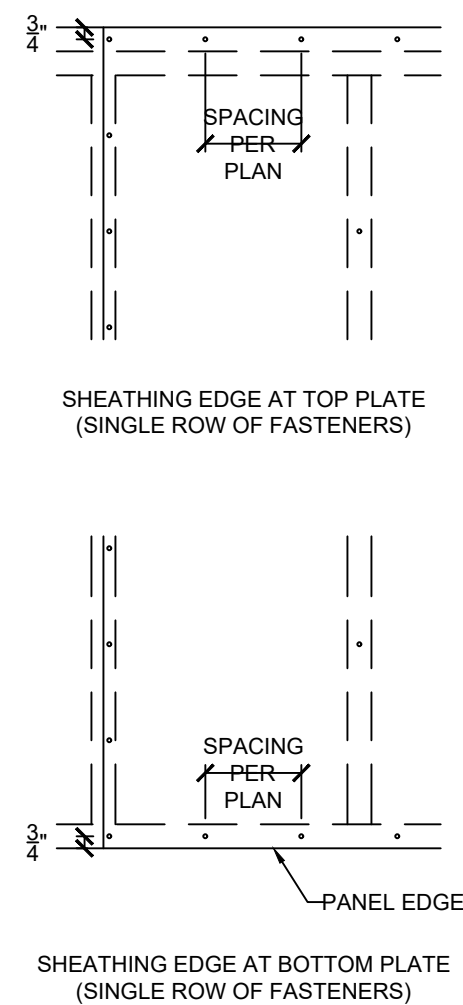
MINIMUM PANEL LENGTH FOR DETAIL 2/S3.0 (INCHES)				
WALL HEIGHT				
8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
24	27	30	33 ^a	36 ^a

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

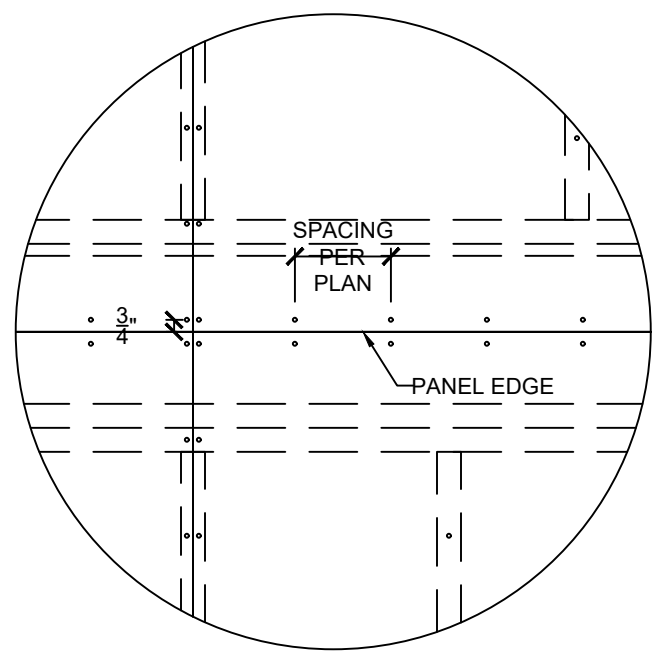
MAX GARAGE OPENING (FT.)	PONY WALL WALL HT. (FT.)	REQUIRED SIMPSON STRAP	MIN. STRAP END LENGTH	NAILS REQUIRED IN EACH STRAP END LENGTH
18'-0"	0'-0"	CS20	0'-9"	(7) 8d
9'-0"	1'-0"	CS20	0'-9"	(7) 8d
18'-0"	1'-0"	CS14	1'-4"	(15) 8d
9'-0"	2'-0"	CS18	0'-11"	(9) 8d
18'-0"	2'-0"	CMSTC16	1'-8"	(25) 16d SINKER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



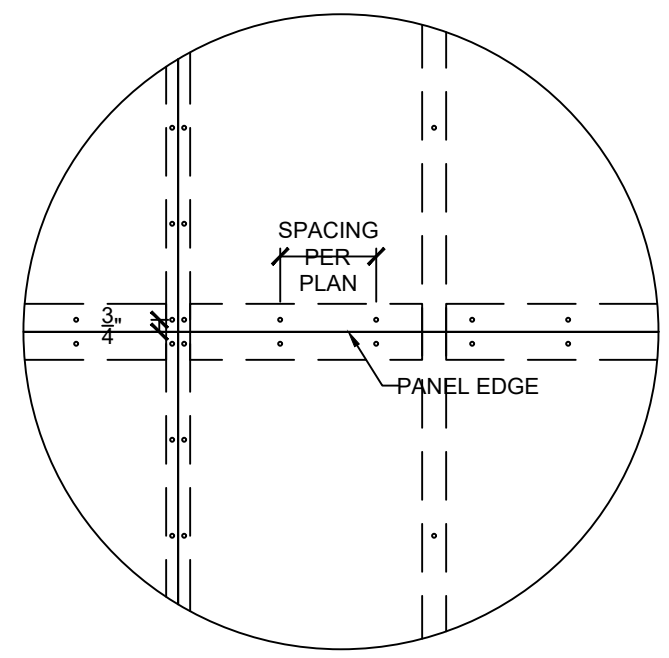
3 EXTERIOR WALL SHEATHING PANEL ATTACHMENT
SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



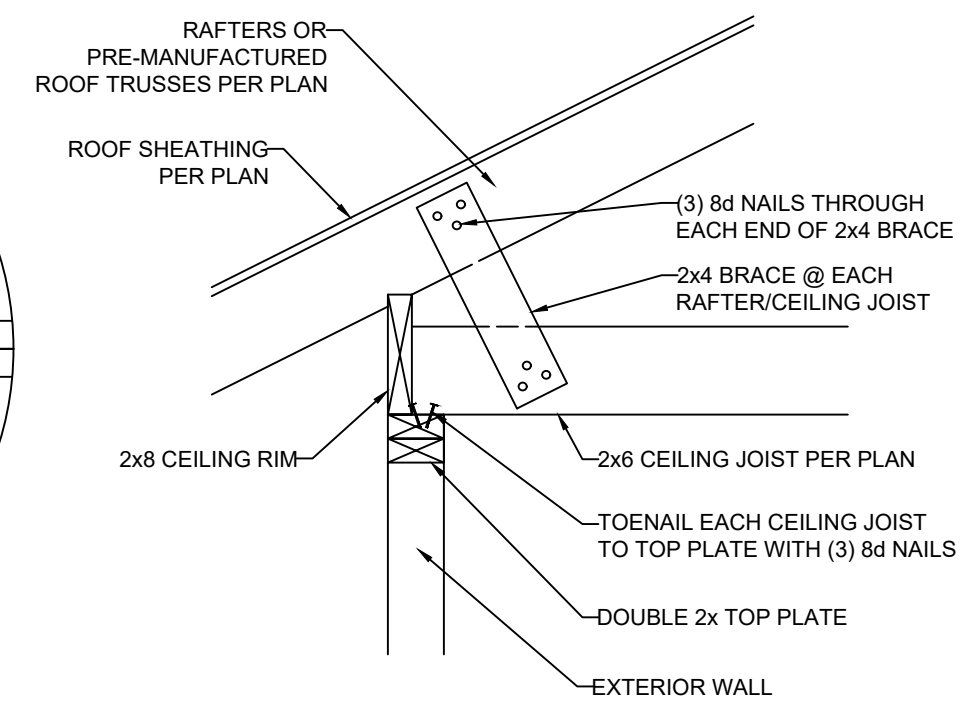
4 SHEATHING EDGE AT TOP AND BOTTOM PLATES
SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



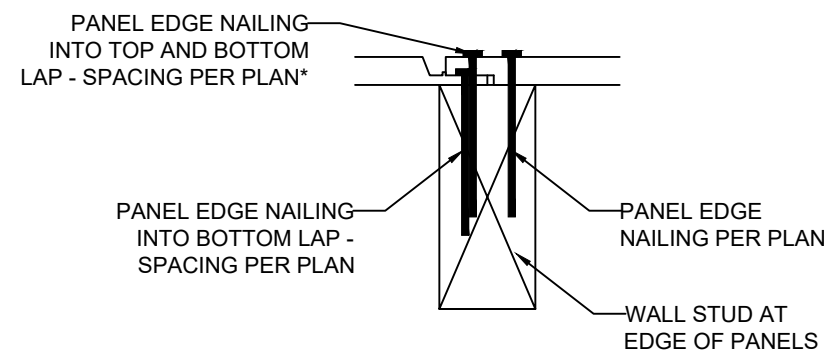
5 SHEATHING EDGE AT HORIZONTAL FRAMING MEMBER
SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



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

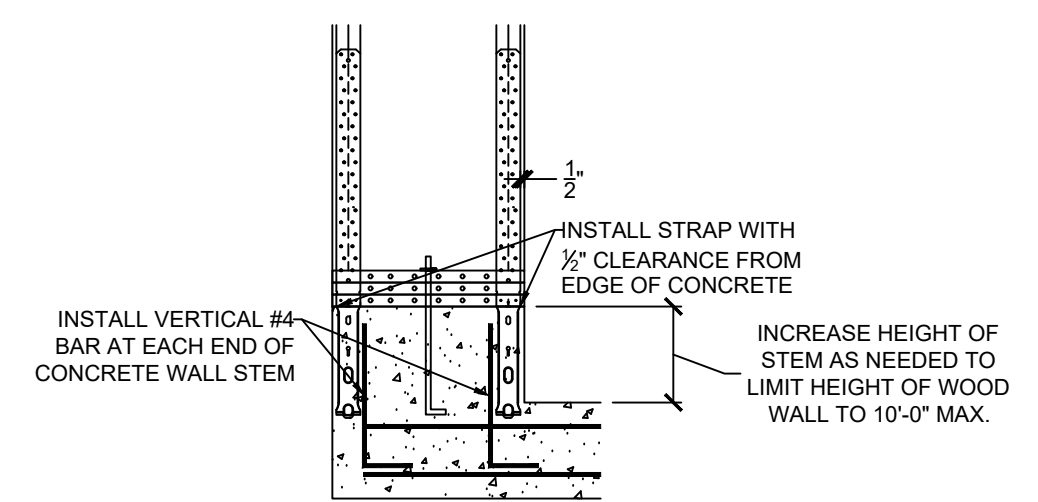


7 RAFTER BEARING OPTION DETAIL
SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

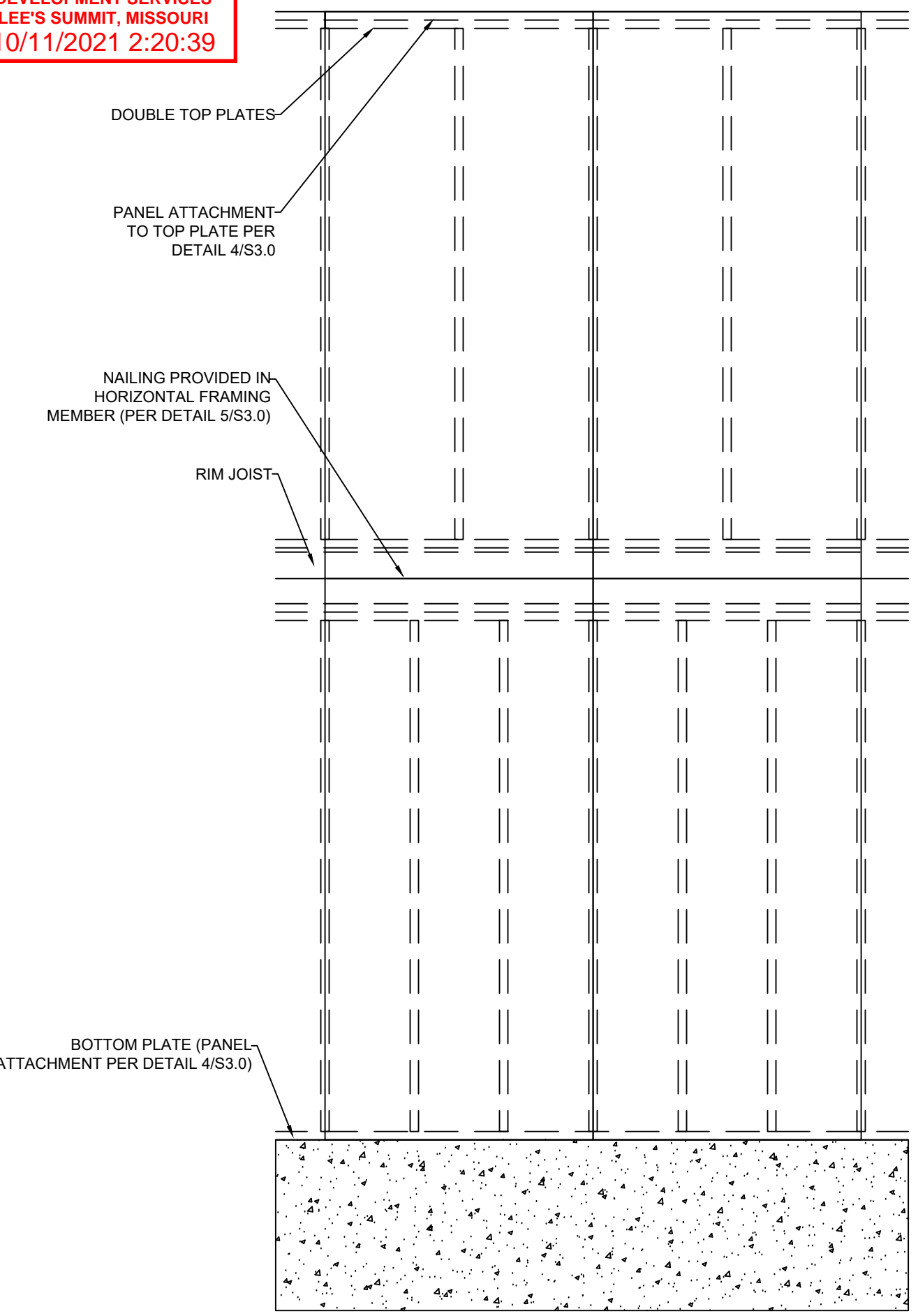


*NOTE: NAILING INTO TOP AND BOTTOM LAP IS IN ADDITION TO NAILING REQUIRED INTO BOTTOM LAP. FOR EXAMPLE, IF PLAN CALLS FOR NAILS @ 6" O.C. AT EDGES, BOTTOM LAP SHALL BE FASTENED AT 6" O.C. AND, IN ADDITION, NAILING SHALL ALSO BE INSTALLED THROUGH TOP AND BOTTOM LAP @ 6" O.C. STAGGERED 3" FROM BOTTOM LAP NAILING

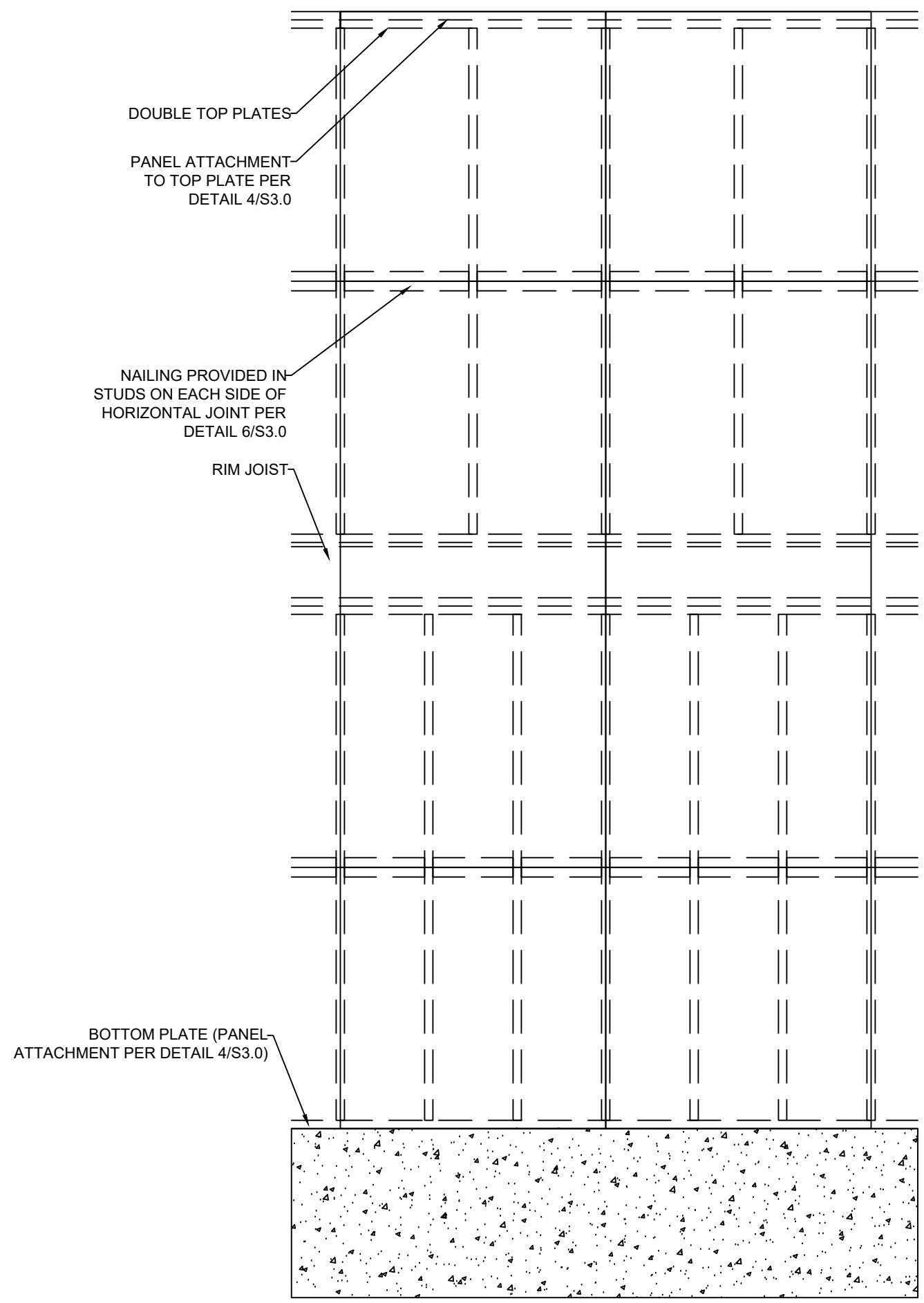
8 FASTENING INSTRUCTIONS FOR SHIPLAP PANEL SHEATHING
SCALE: 4" = 1'-0" (18x24) OR 6" = 1'-0" (24x36)



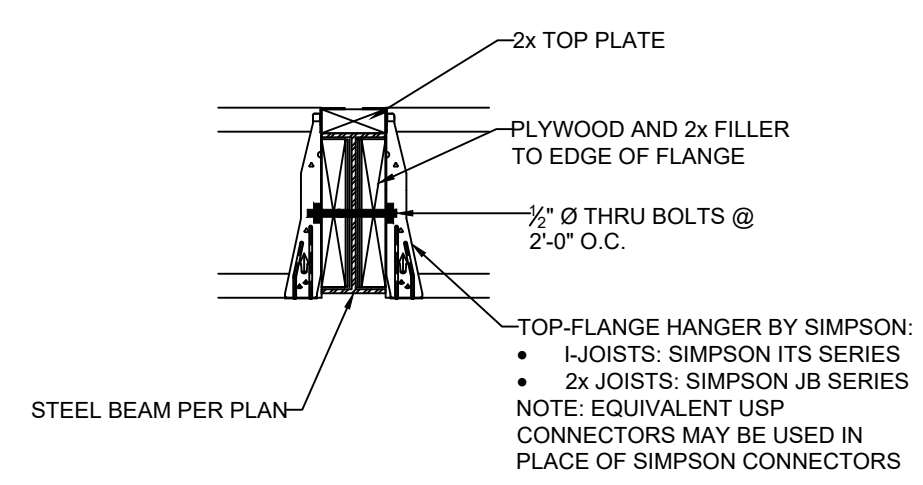
9 GARAGE HOLD-DOWN STRAP INSTALLATION
SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



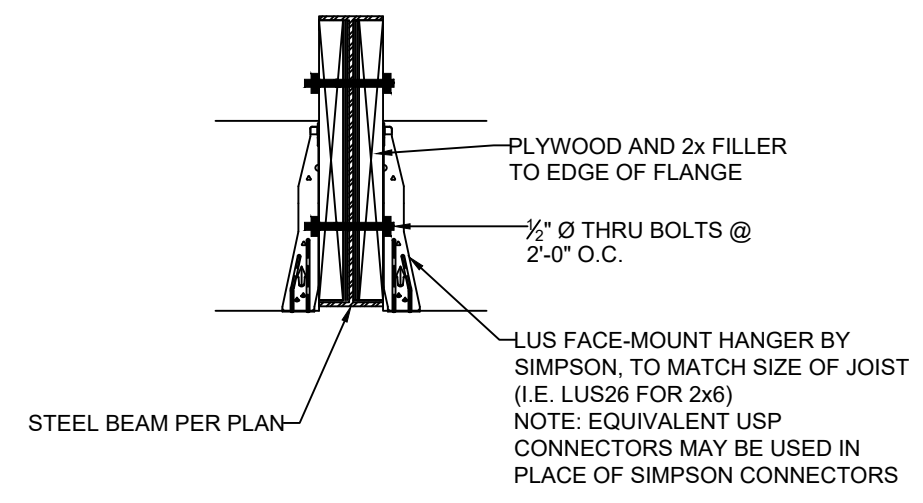
1 EXTERIOR WALL SHEATHING PANEL ATTACHMENT
S3.1 PANEL SPLICE OVER HORIZONTAL FRAMING MEMBER
 SCALE: 1/2" = 1'-0" (18x24) OR 1/4" = 1'-0" (24x36)



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

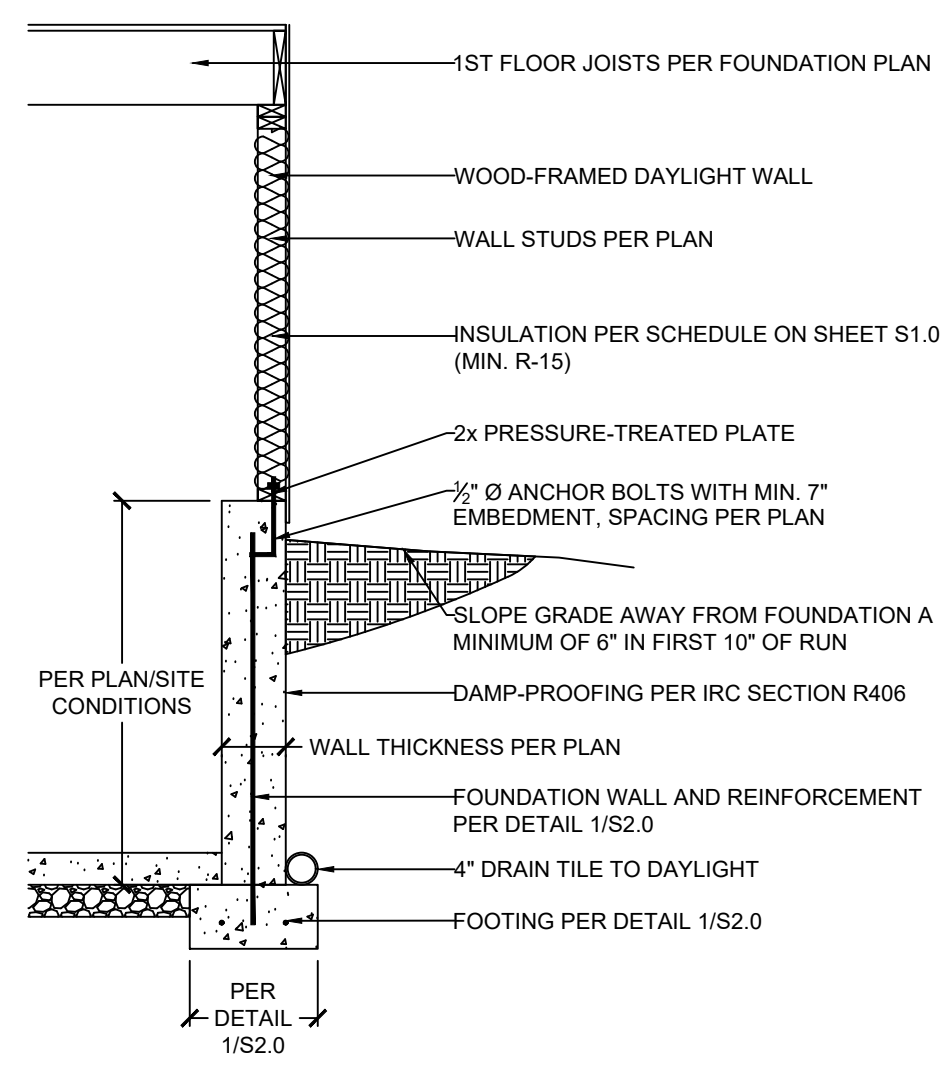


4 FLOOR JOIST TO FLUSH STEEL BEAM DETAIL
S3.1 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

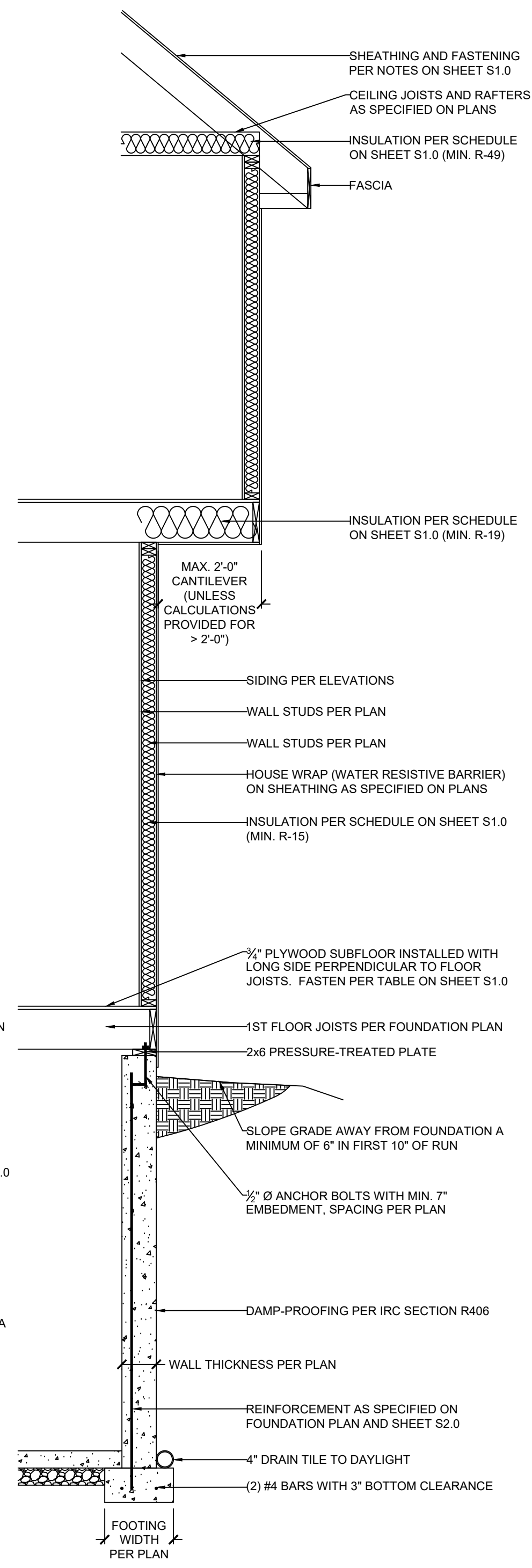


5 CEILING JOIST TO FLUSH STEEL BEAM DETAIL
S3.1 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

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



DAYLIGHT BASEMENT OPTION



FULL-HEIGHT CONCRETE WALL OPTION

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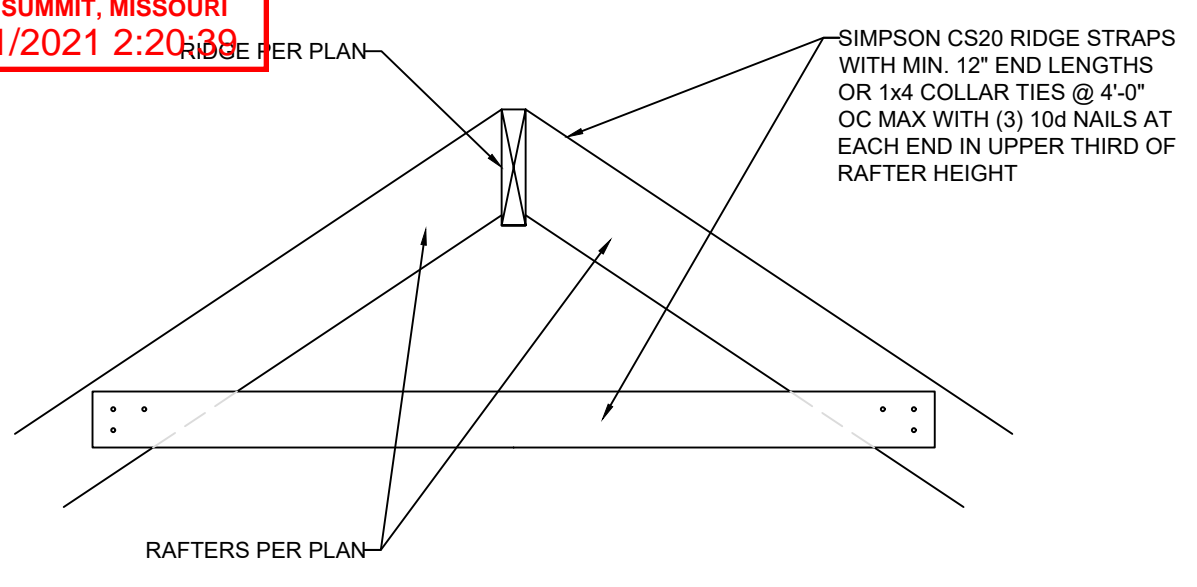
CLIENT: WALKER CUSTOM HOMES, LLC
 JOB TITLE: HHF018 SPEC
 LOT 18, HOMESTEAD AT HOOK FARMS
 1st PLAT
 LOCATION: 2034 SW HOOK FARM DR.
 LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
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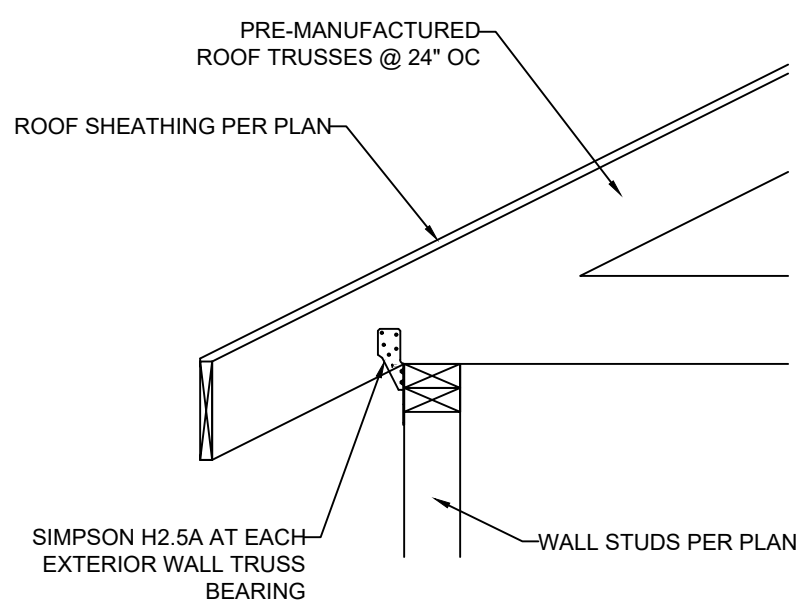
NO.	DATE	REVISION	BY

DRAWING TITLE
FRAMING DETAILS

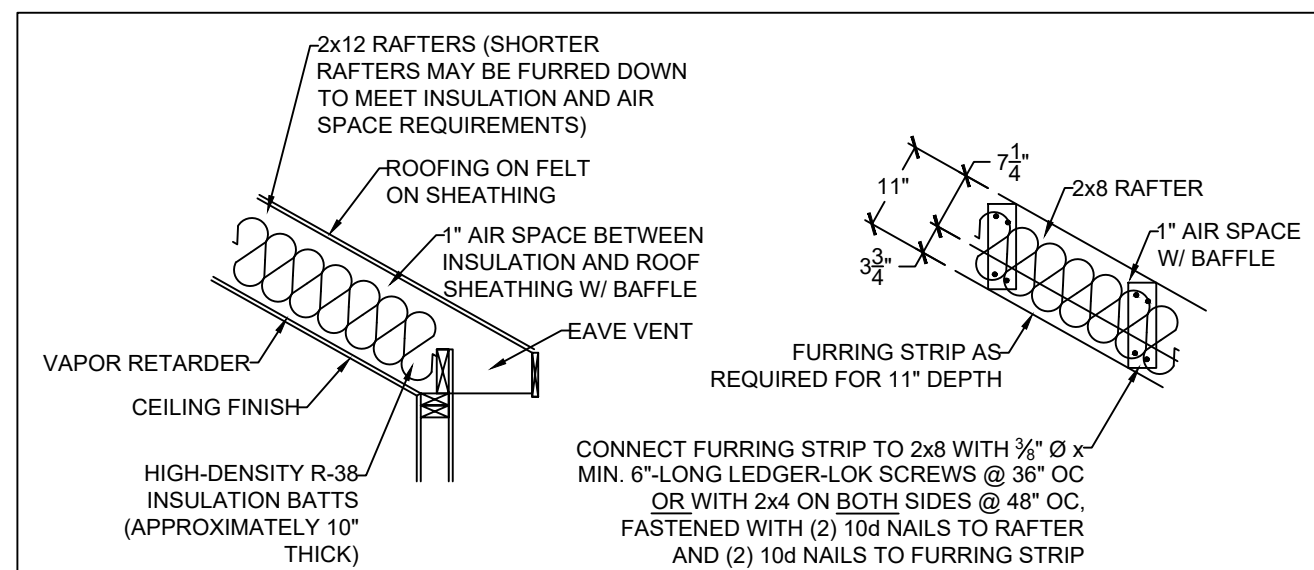
ENGINEER: DMH CHECKED BY: DMH
 JOB NO. 3919 DRAWN BY: DMH
 DATE: 09-27-21
 SHEET NUMBER
S3.1



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

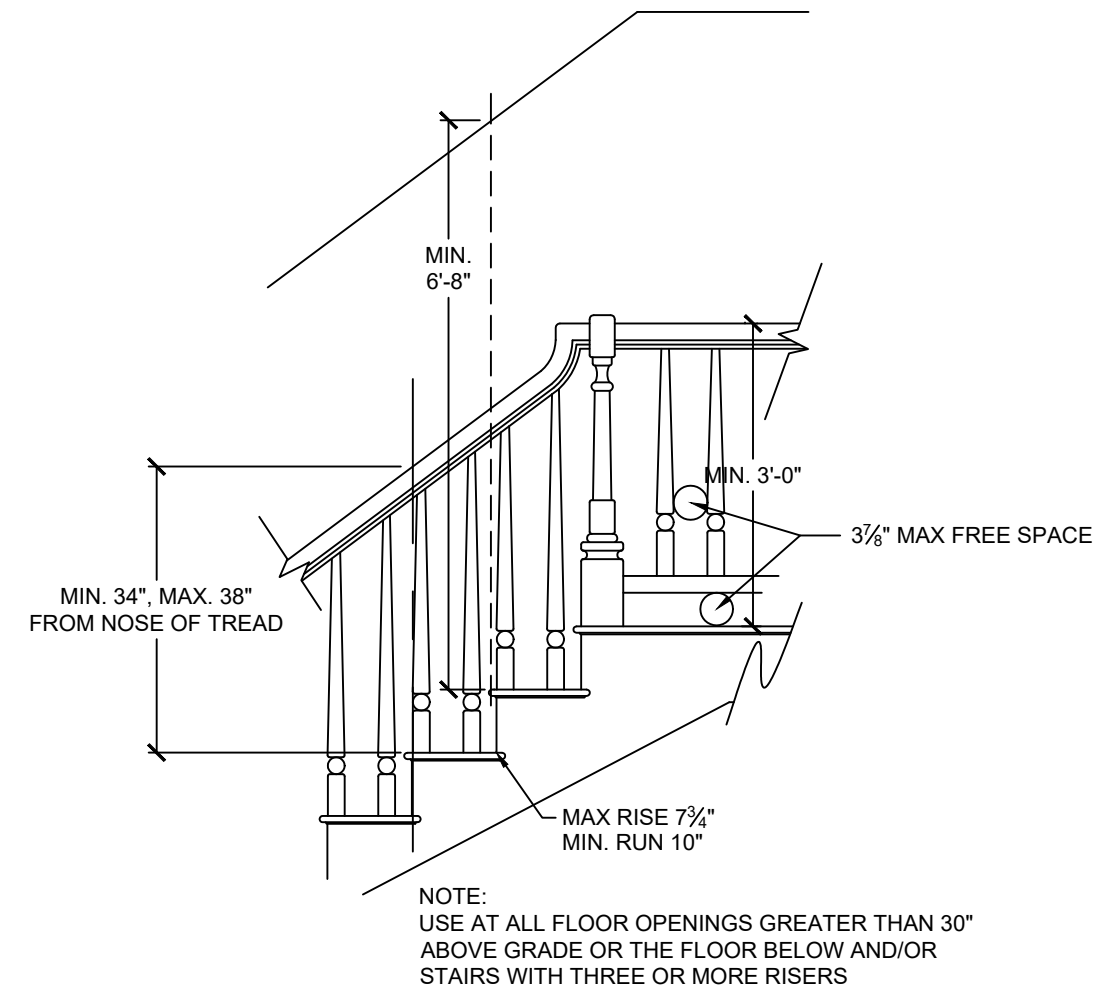


2 TRUSS CONNECTION TO EXT. WALL BEARING
 S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

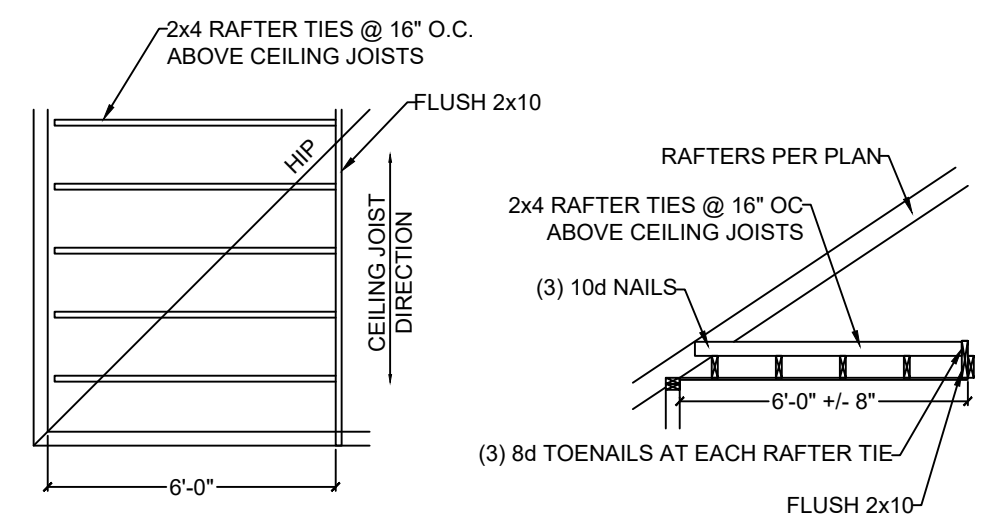


VAULTED RAFTER INSULATION INSTALLATION AND OPTIONAL CONNECTION DETAILS

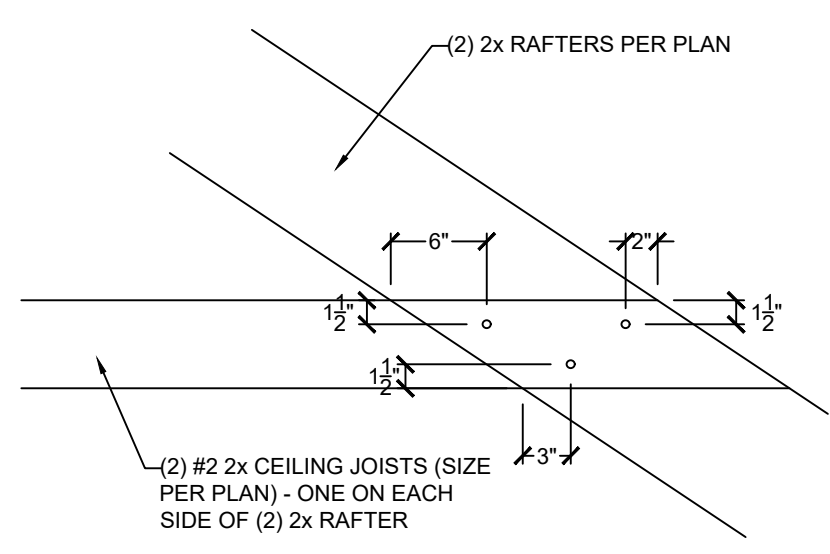
3 VAULTED RAFTER INSULATION DETAILS
 S3.2 SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



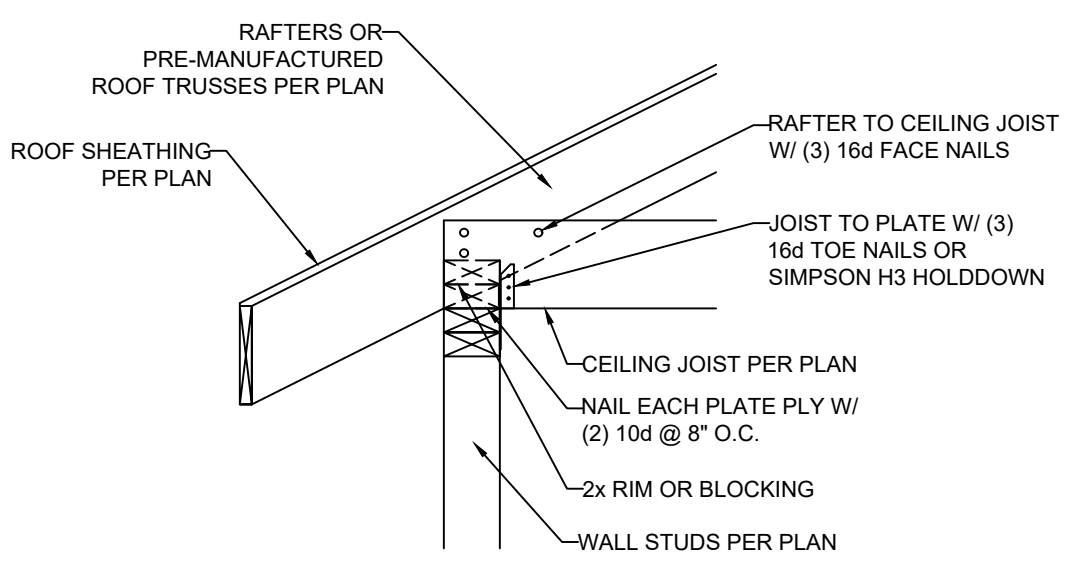
4 STAIR AND HANDRAIL/GUARDRAIL DETAIL
 S3.2 SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



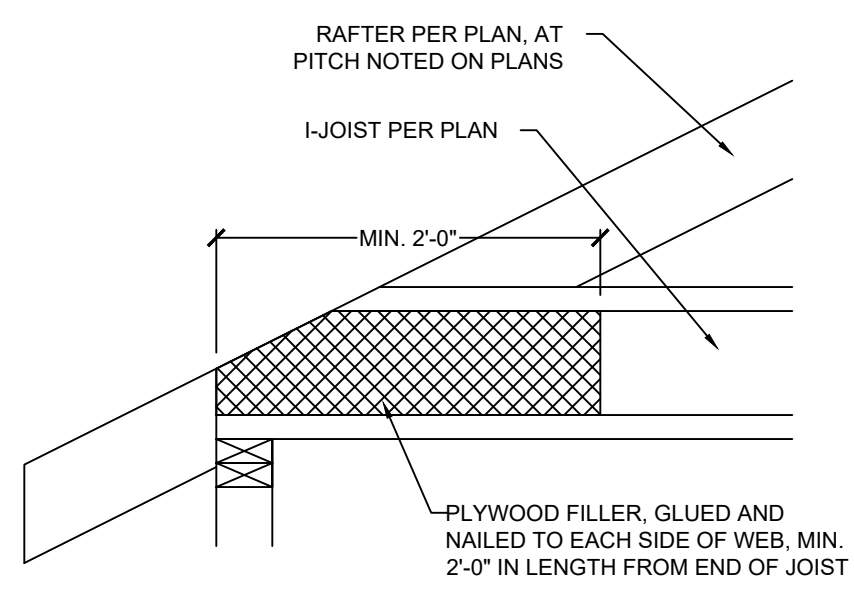
5 RAFTER TIES AT CEILING JOISTS PERP. TO RAFTERS
 S3.2 SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



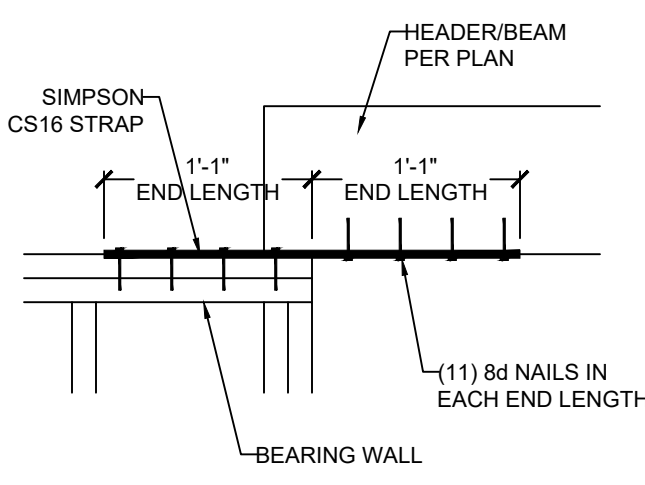
6 FIELD-CONSTRUCTED A-FRAME DETAIL
 S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



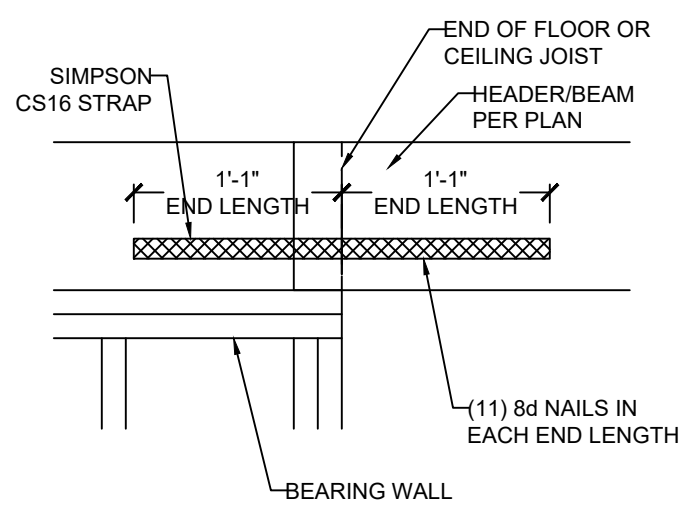
7 RAFTER BEARING OPTION DETAIL
 S3.2 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



9 COPED I-JOIST REINFORCEMENT
 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)



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

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"

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CLIENT: WALKER CUSTOM HOMES, LLC
 JOB TITLE: HHF018 SPEC
 LOT 18, HOMESTEAD AT HOOK FARMS
 1st PLAT

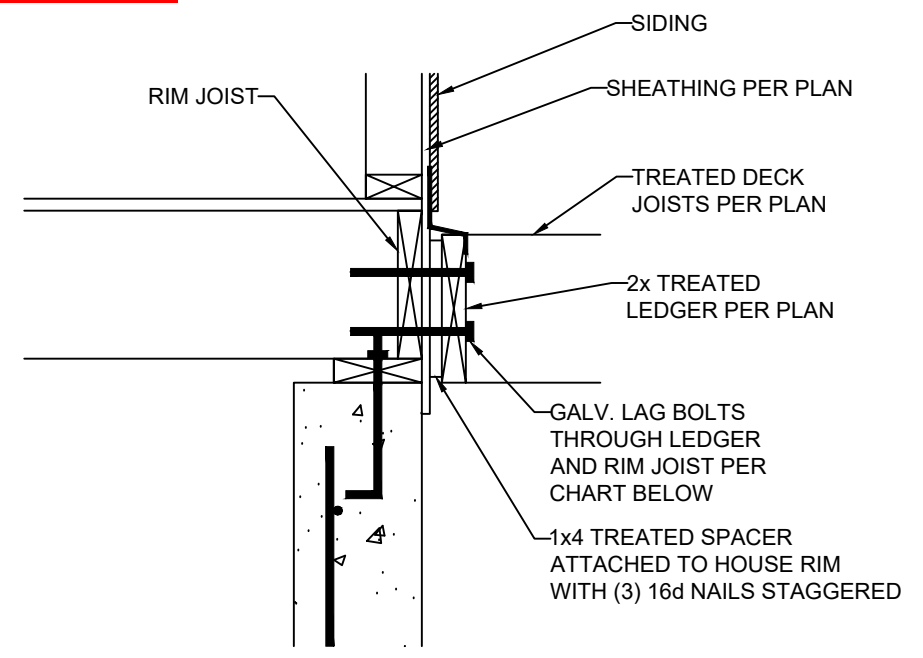
LOCATION: 2034 SW HOOK FARM DR.
 LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
 DENNIS HEIER
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NO.	DATE	REVISION	BY

DRAWING TITLE
FRAMING DETAILS

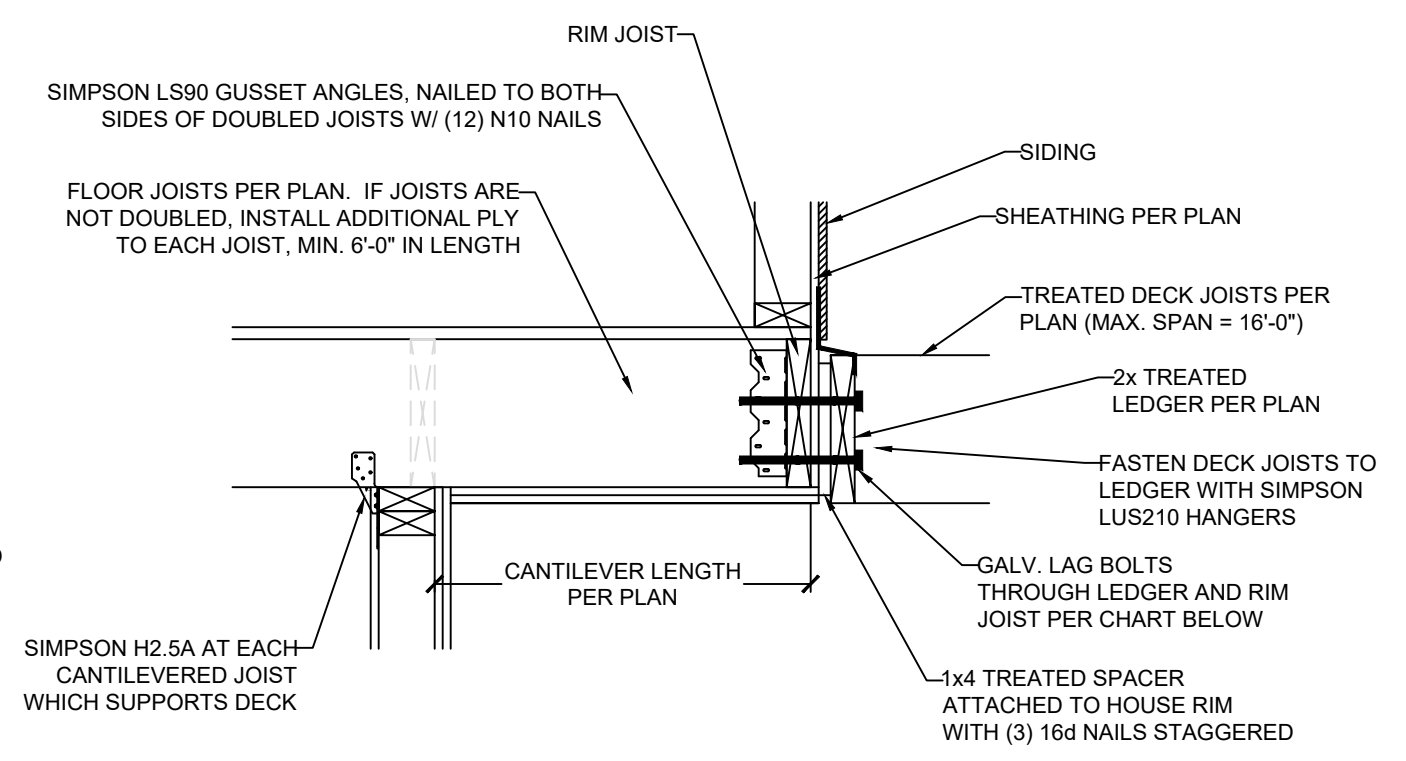
ENGINEER: DMH CHECKED BY: DMH
 JOB NO. 3919 DRAWN BY: DMH
 DATE: 09-27-21
 SHEET NUMBER
S3.2



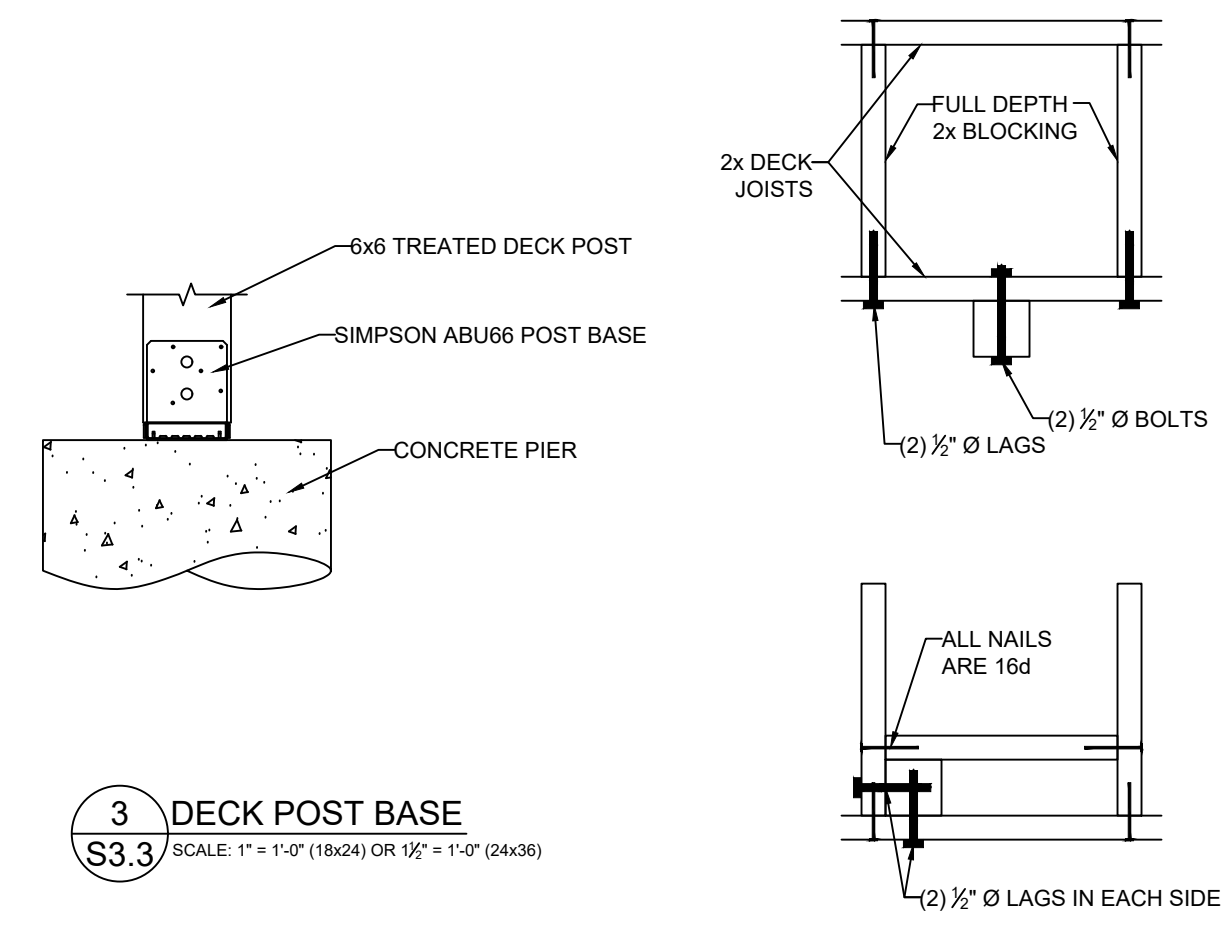
DECK LEDGER ATTACHMENT GUIDE

DECK JOIST SPAN	1/2" Ø GALV. LAG OR 3/8" Ø LEDGER-LOK SPACING
10'-0" OR LESS	16" OC
10'-0" - 13'-11"	12" OC OR @ 16" OC DOUBLED EVERY OTHER
14'-0" - 18'-0"	8" OC OR @ 16" OC DOUBLED

1 LEDGER ATTACHMENT
 S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

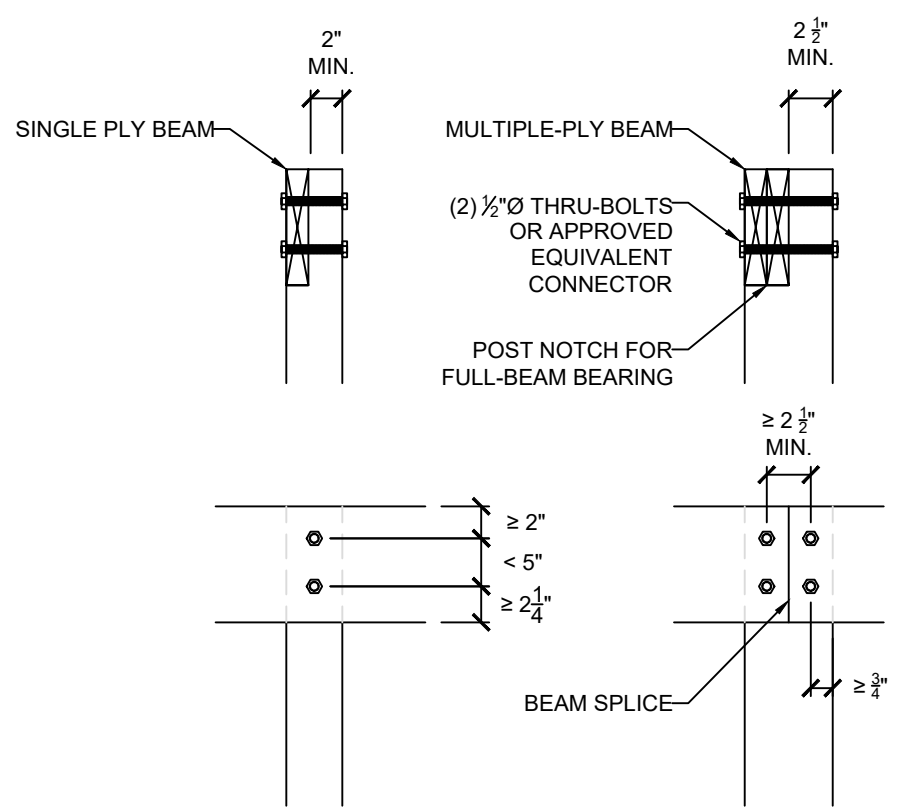


2 CANTILEVER WITH DECK ATTACHMENT
 S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

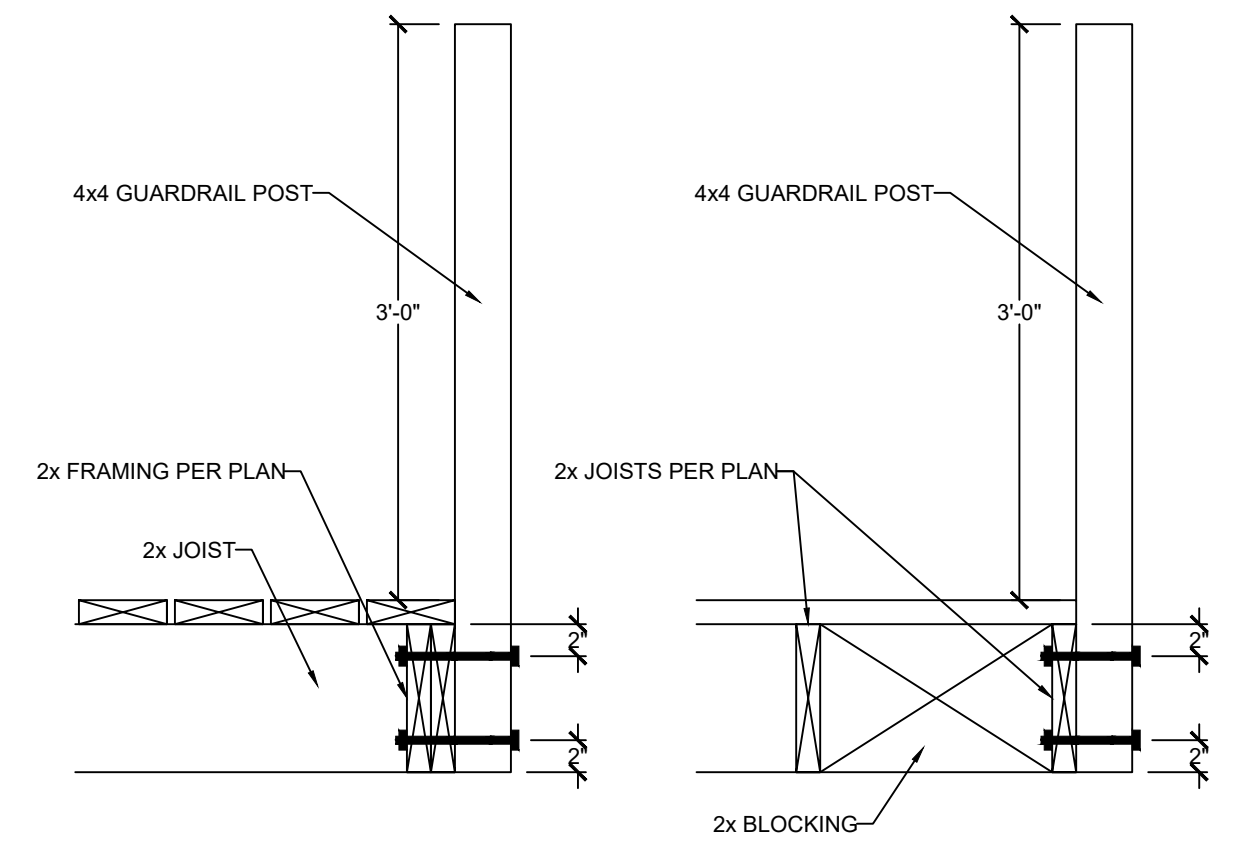


3 DECK POST BASE
 S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

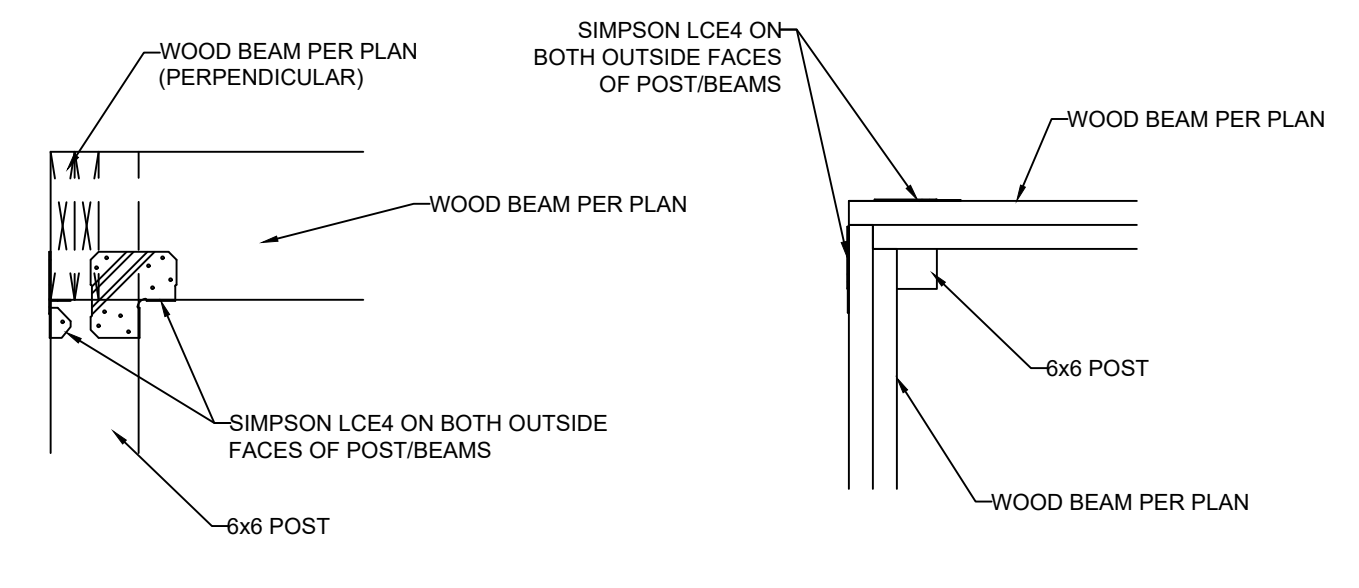
4 REINF. POST CONNECTIONS
 S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



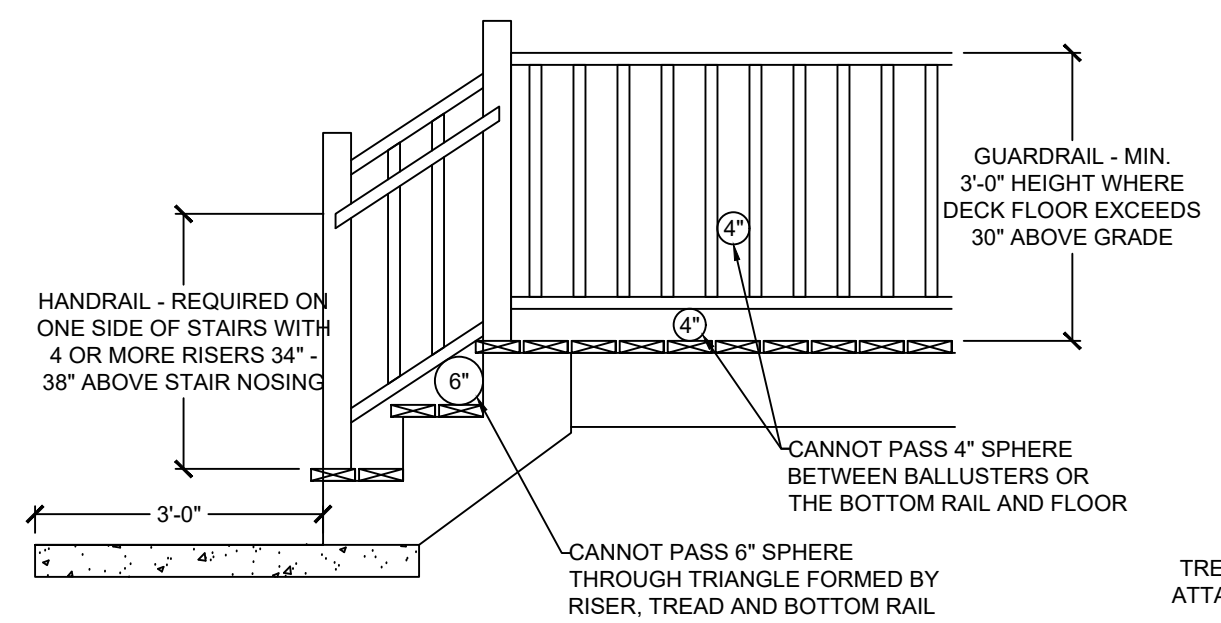
5 LET-IN (COVERED) DECK BEAM CONNECTION
 S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



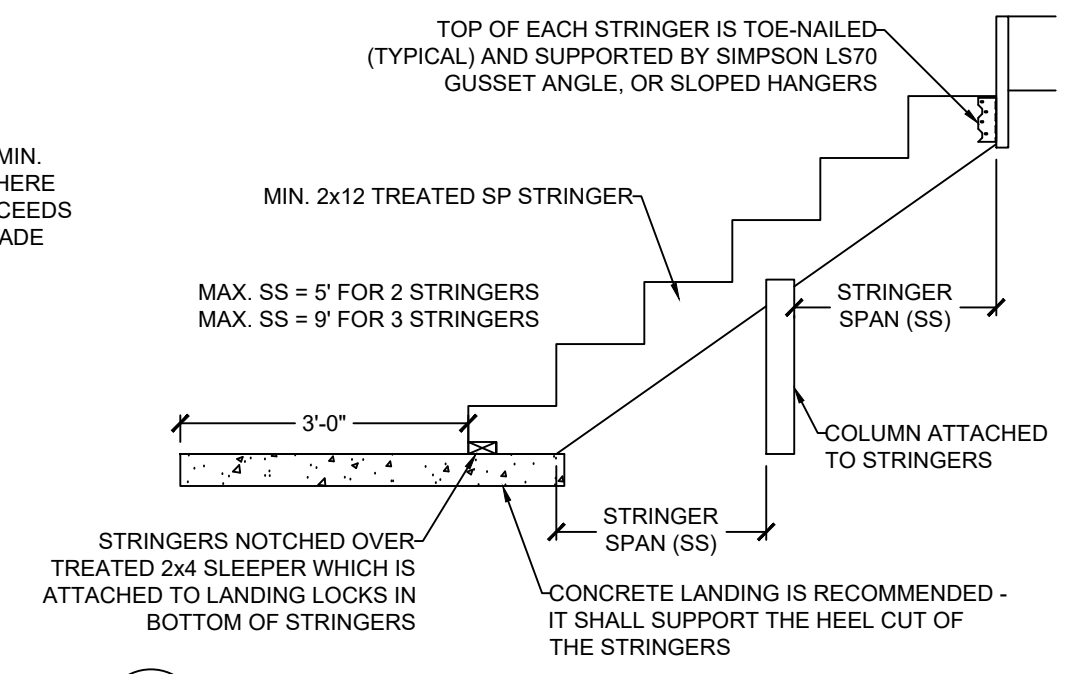
6 GUARDRAIL CONNECTION
 S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



7 ALTERNATE COVERED DECK/PORCH INTERSECTION
 S3.3 CORNER BEAM CONNECTION
 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



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



9 STAIR STRINGER DETAIL (MAX. 5' STAIR WIDTH)
 S3.3 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

VISTA
 STRUCTURAL
 ENGINEERING, LLC

14718 NW DELIA STREET * PORTLAND, OREGON 97229
 OFFICE: 971.255.6099 * MOBILE: 971.255.6099 *
 EMAIL: DENNIS@VISTASTRUCTURAL.COM

CLIENT: WALKER CUSTOM HOMES, LLC
 JOB TITLE: HHF018 SPEC
 LOT 18, HOMESTEAD AT HOOK FARMS
 1st PLAT
 LOCATION: 2034 SW HOOK FARM DR.
 LEE'S SUMMIT, MISSOURI

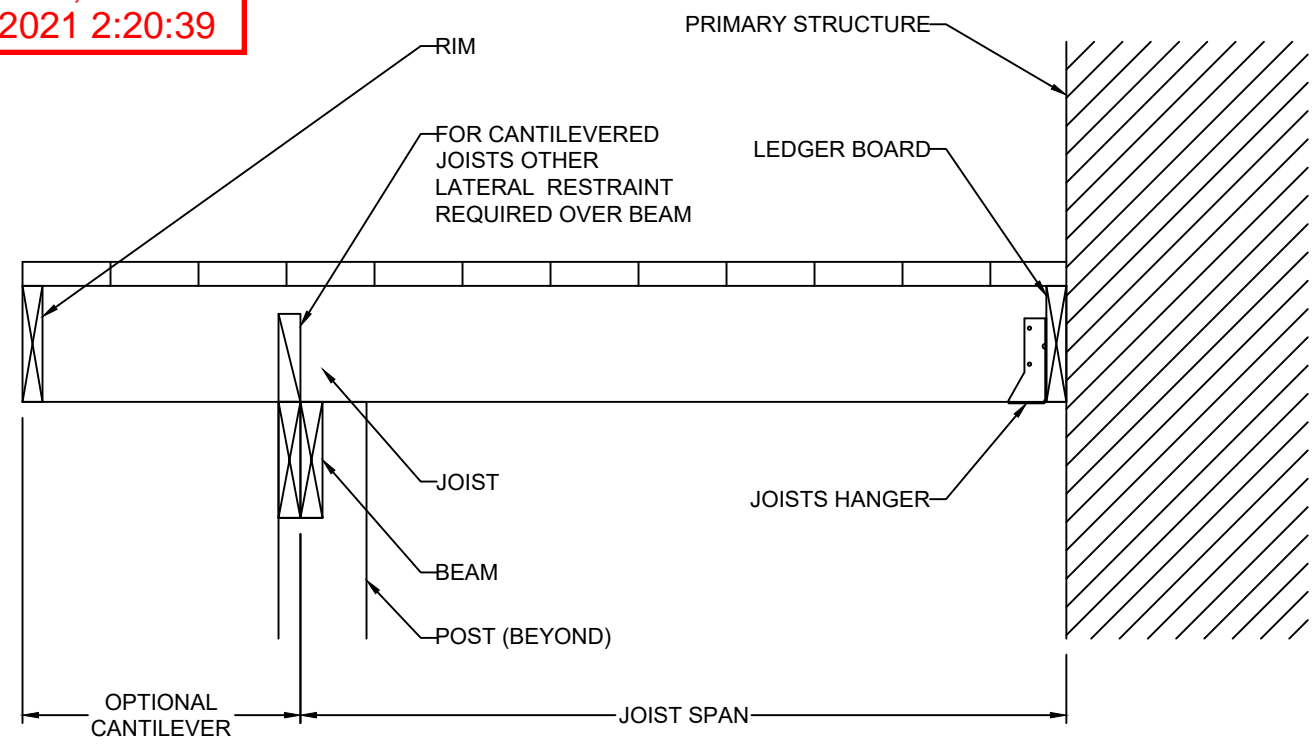
STATE OF MISSOURI
 DENNIS HEIER
 NUMBER PE-201001772
 PROFESSIONAL ENGINEER
 9-27-2021

NO.	DATE	REVISION	BY

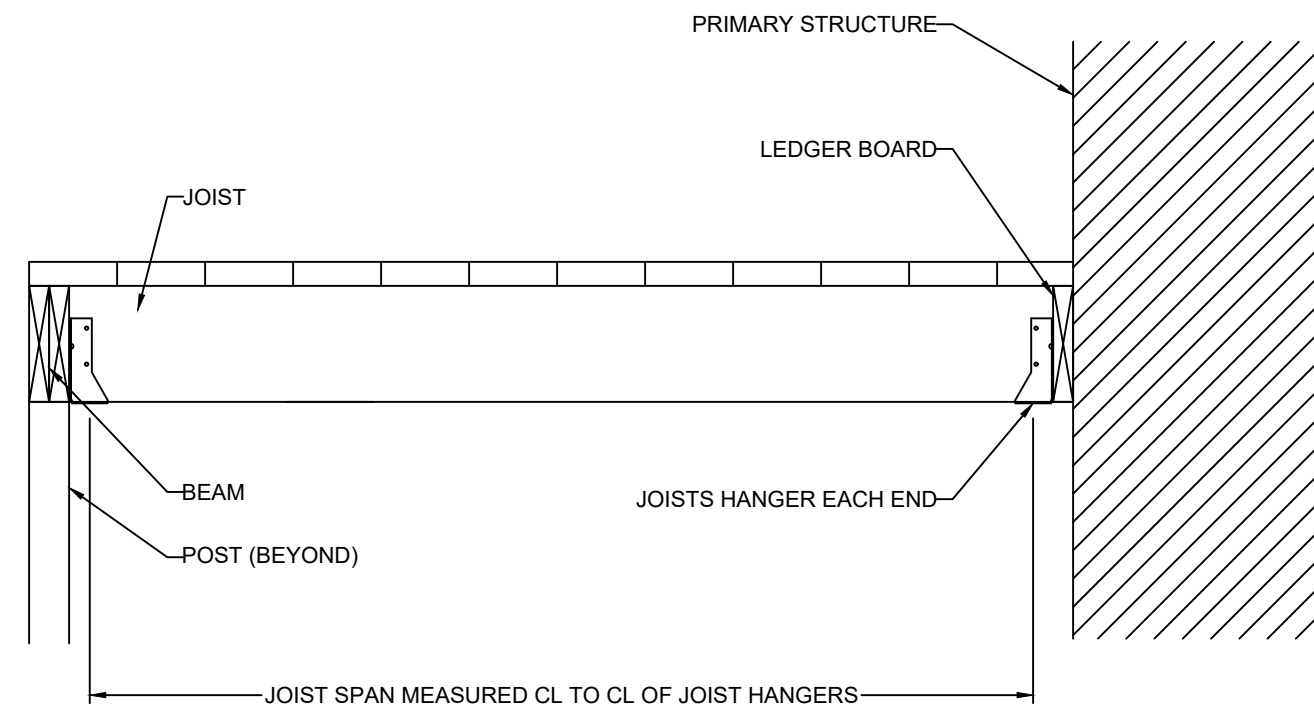
DRAWING TITLE
**FRAMING
 DETAILS**

ENGINEER: DMH CHECKED BY: DMH
 JOB NO. 3919 DRAWN BY: DMH
 DATE: 09-27-21
 SHEET NUMBER
S3.3a

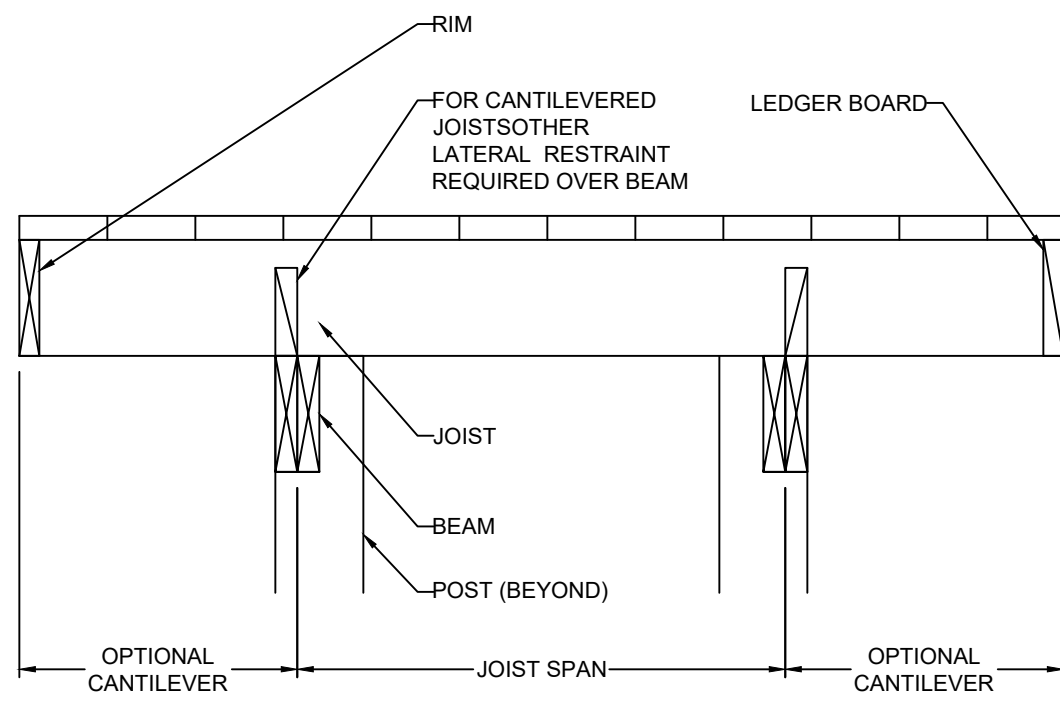
RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 10/11/2021 2:20:39



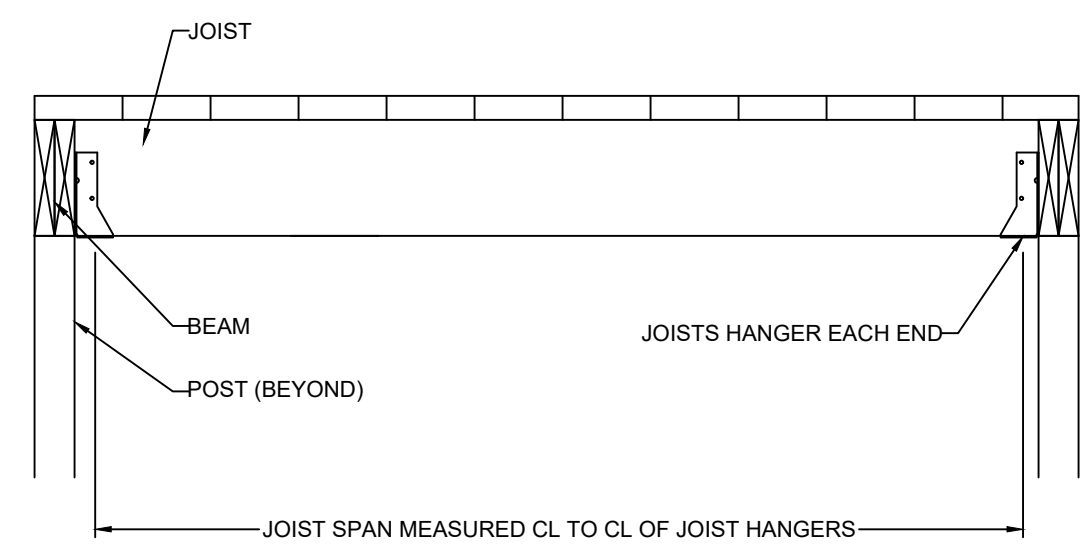
CANTILEVERED JOISTS WITH DROPPED BEAM



JOISTS WITH FLUSH BEAM

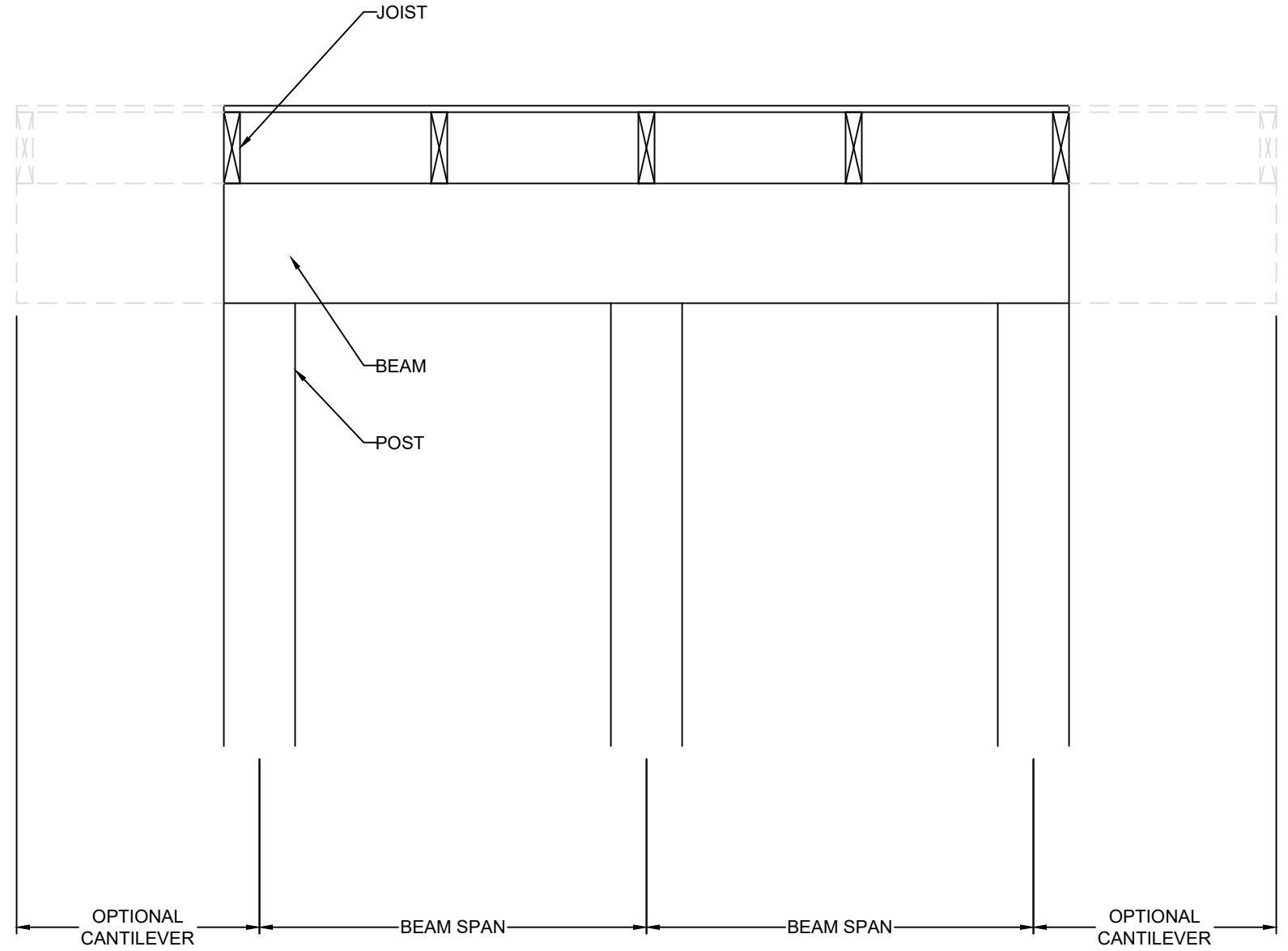


JOISTS ON FREE-STANDING DECK WITH DROPPED BEAM

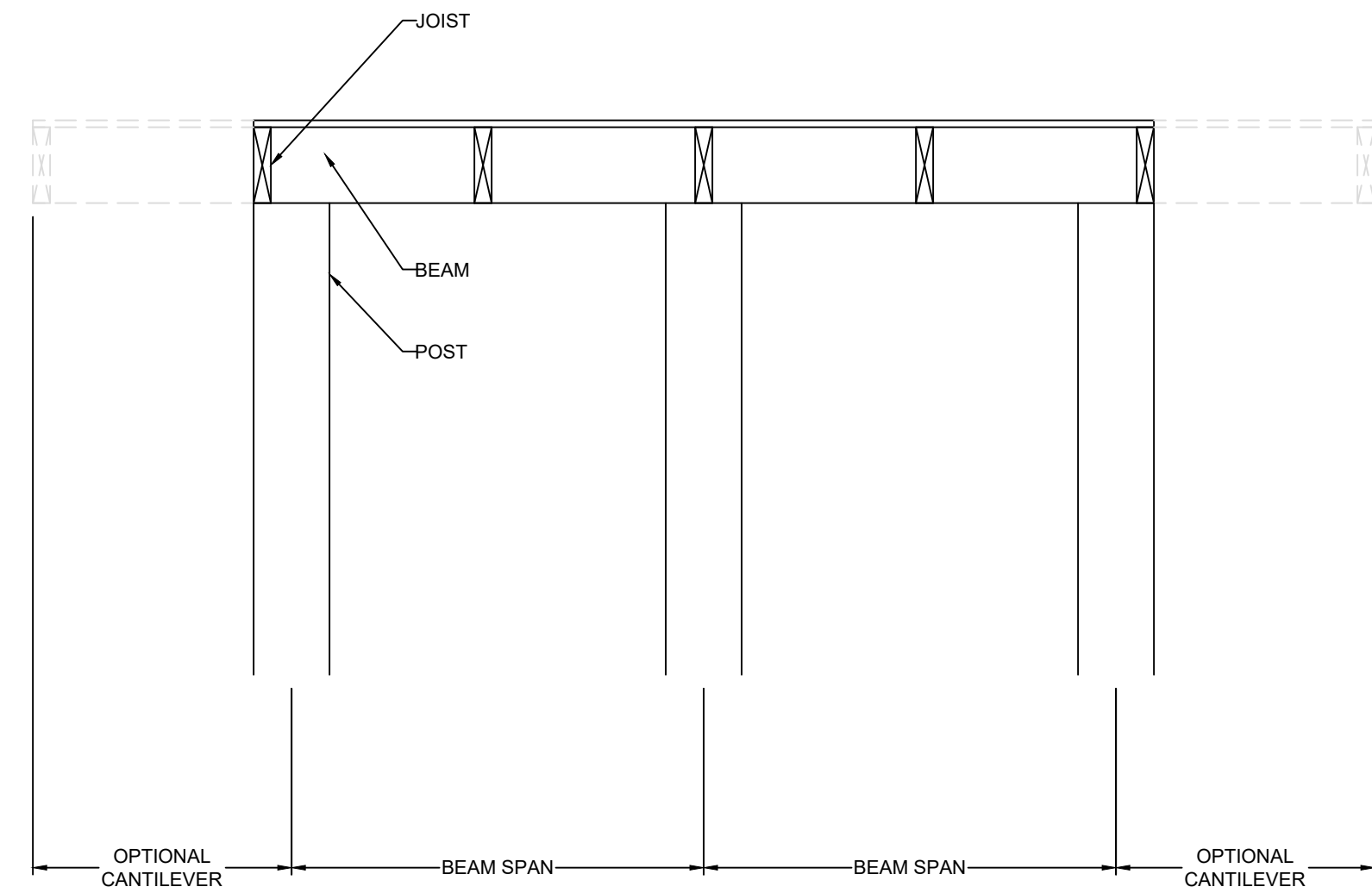


JOISTS WITH FLUSH BEAM

10 TYP. DECK JOIST SPANS
 S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



DROPPED BEAM



FLUSH BEAM

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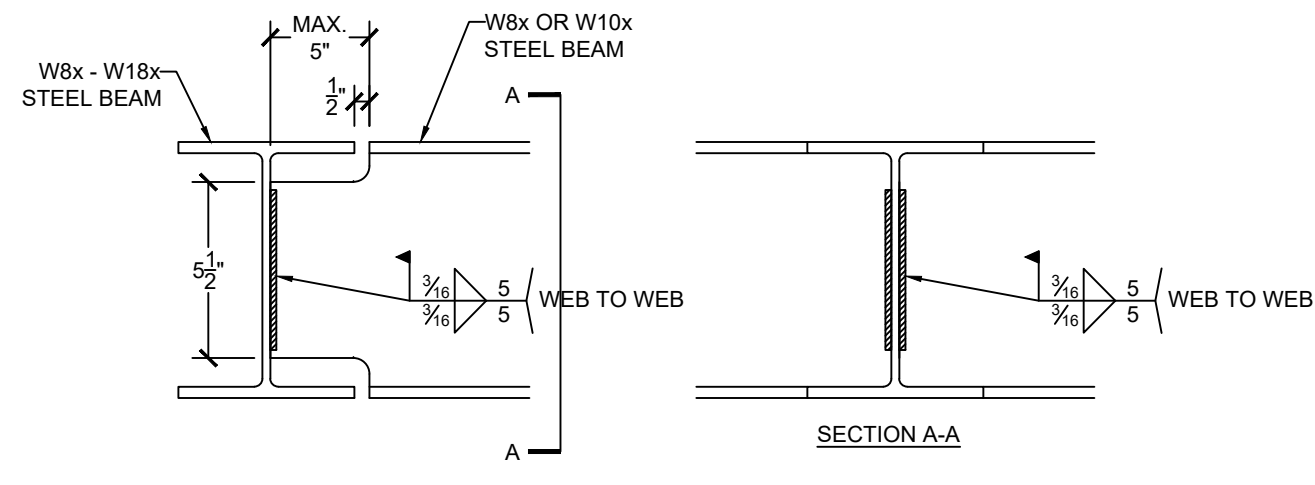
CLIENT: WALKER CUSTOM HOMES, LLC
 JOB TITLE: HHF018 SPEC
 LOT 18, HOMESTEAD AT HOOK FARMS
 1st PLAT
 LOCATION: 2034 SW HOOK FARM DR.
 LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
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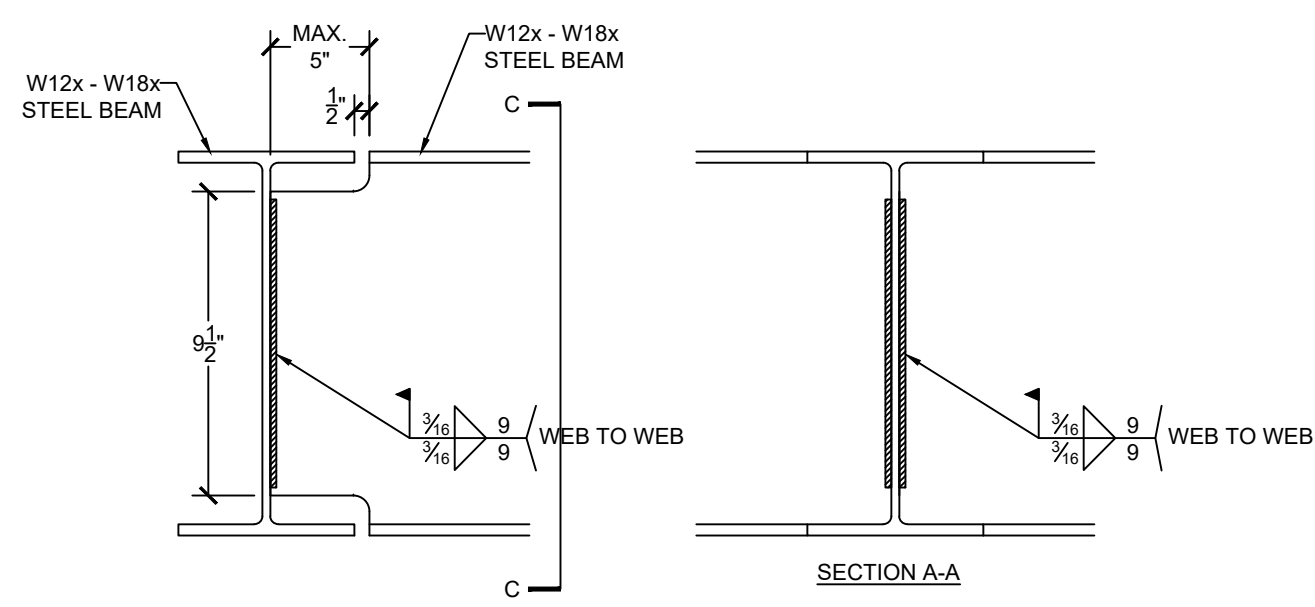
DRAWING TITLE
FRAMING DETAILS

ENGINEER: DMH CHECKED BY: DMH
 JOB NO. 3919 DRAWN BY: DMH
 DATE: 09-27-21
 SHEET NUMBER
S3.3b



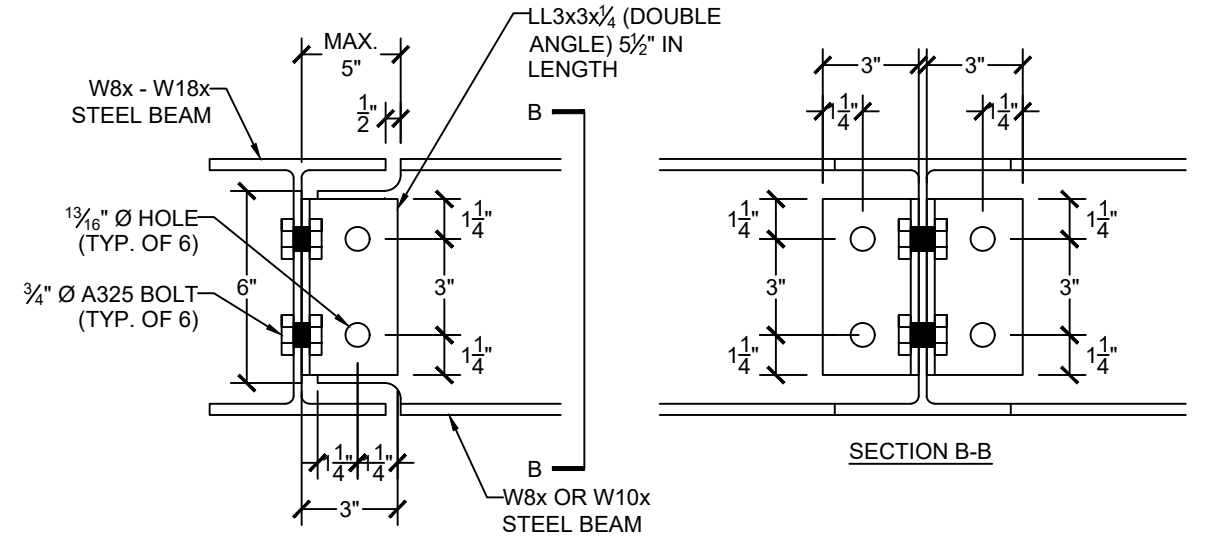
1 WELDED T-BEAM CONNECTION FOR W8x AND W10x BEAMS
S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #1)



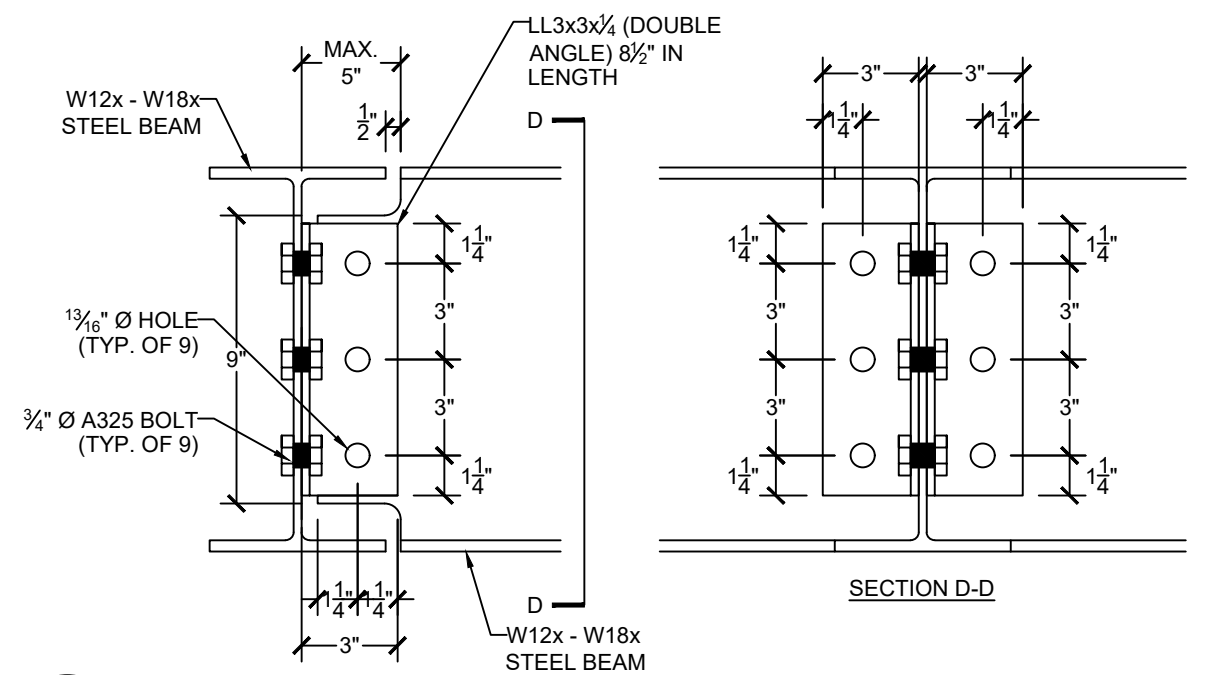
2 WELDED T-BEAM CONNECTION FOR W12x, W14x, W16x & W18x BEAMS
S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #1)



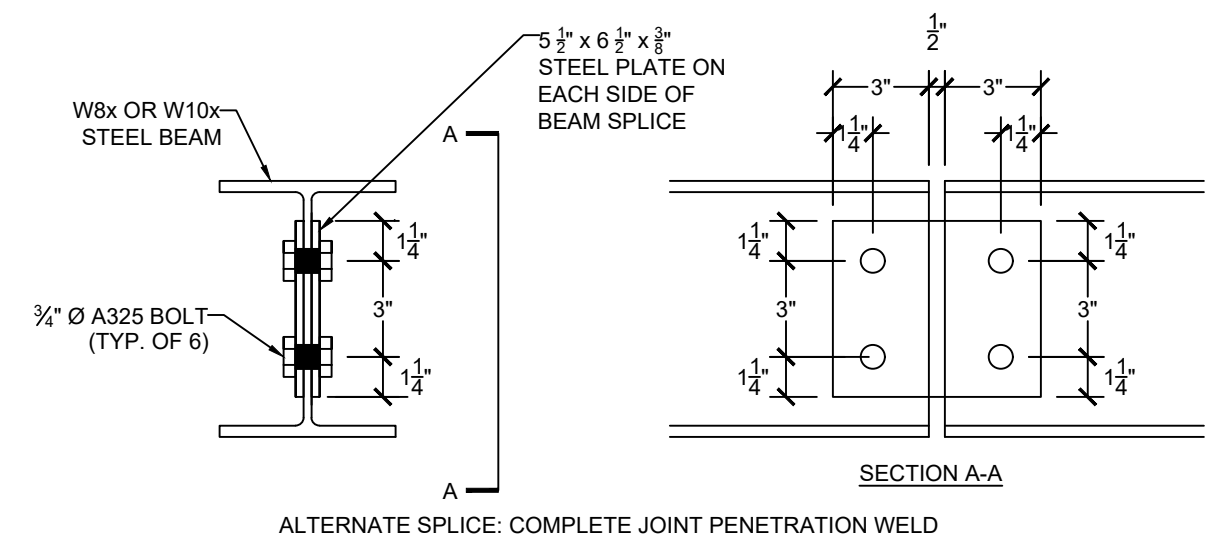
1 BOLTED T-BEAM CONNECTION FOR W8x AND W10x BEAMS
S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #2)



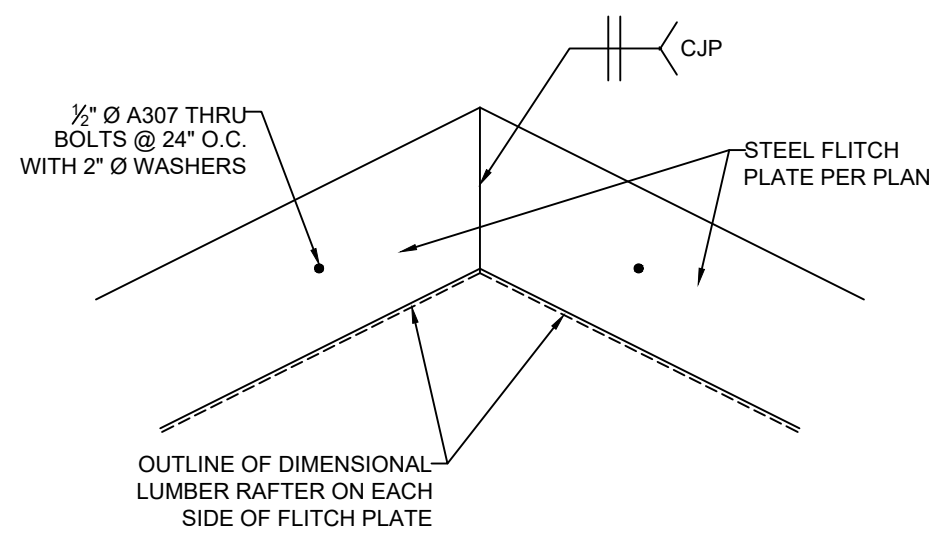
2 BOLTED T-BEAM CONNECTION FOR W12x, W14x, W16x & W18x BEAMS
S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #2)

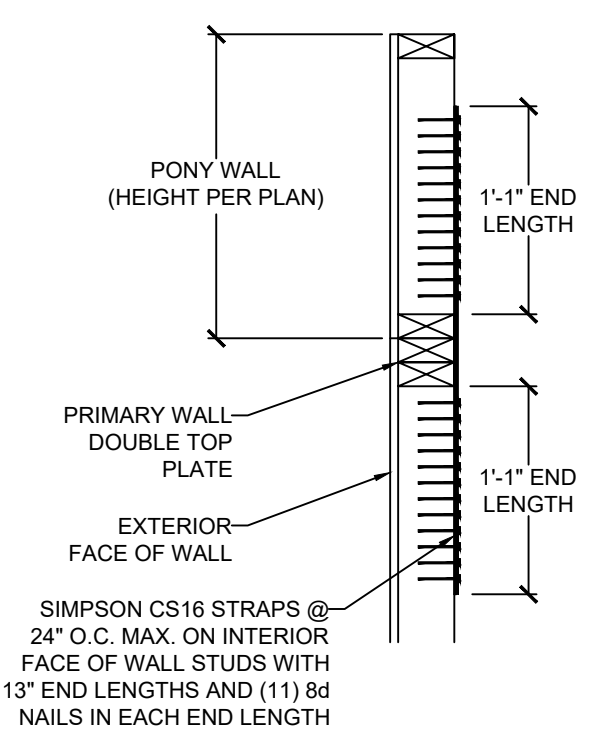


3 BEAM SPLICE CONNECTION FOR W8x AND W10x BEAMS
S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

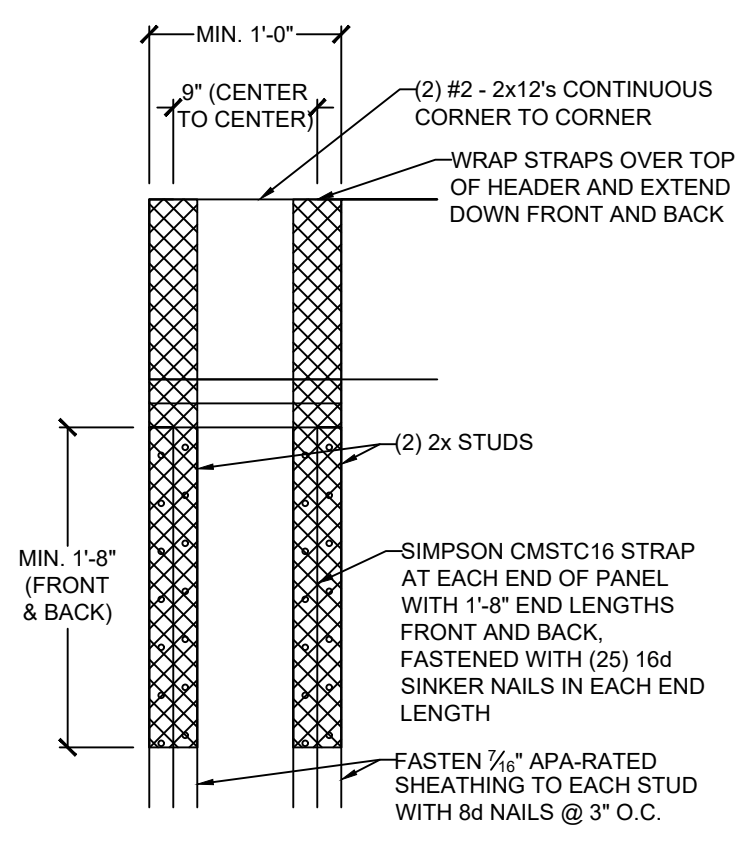
ALTERNATE SPLICE: COMPLETE JOINT PENETRATION WELD



4 RAFTER FLITCH PLATE DETAIL
S3.4 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

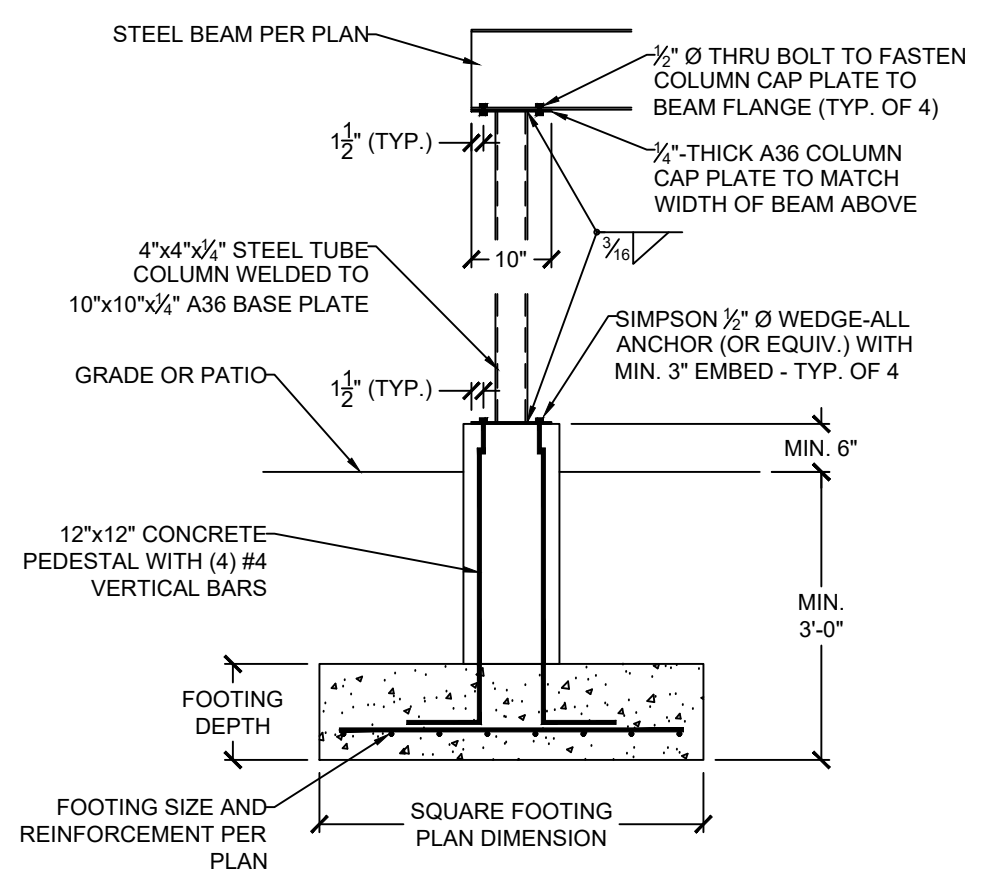


5 SPLICED WALL CONNECTION
S3.4 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



6 3RD CAR STALL BRACING
S3.4 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)

NOTE: SILL PLATE OF PANEL SHALL BE MIN. (1) 2x AND FASTENED WITH 1/2" Ø ANCHOR BOLT AND 2" Ø WASHER PLATE



7 EXTERIOR STEEL COLUMN CONNECTIONS
S3.4 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

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PROFESSIONAL ENGINEER
9-27-2021

NO.	DATE	REVISION	BY

DRAWING TITLE
STEEL BEAM CONNECTIONS

ENGINEER: DMH CHECKED BY: DMH
JOB NO. 3919 DRAWN BY: DMH
DATE: 09-27-21
SHEET NUMBER
S3.4