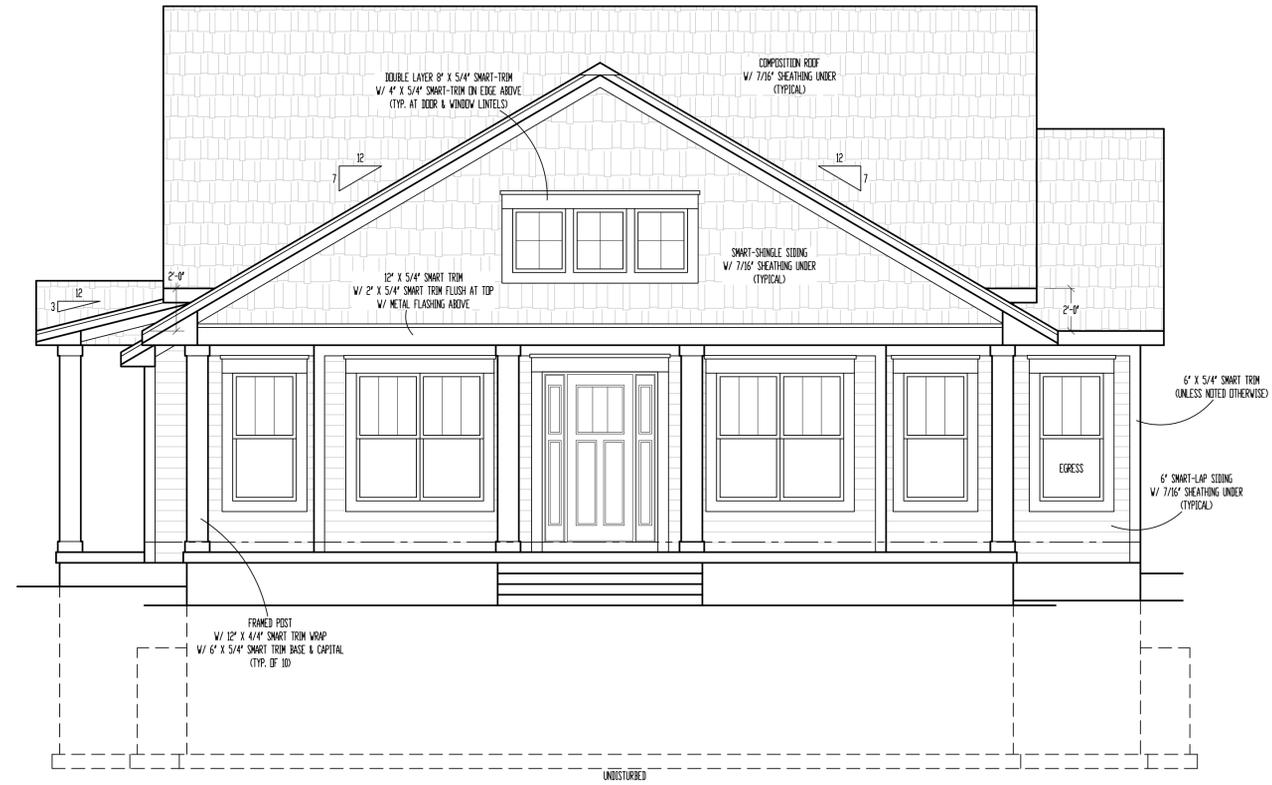
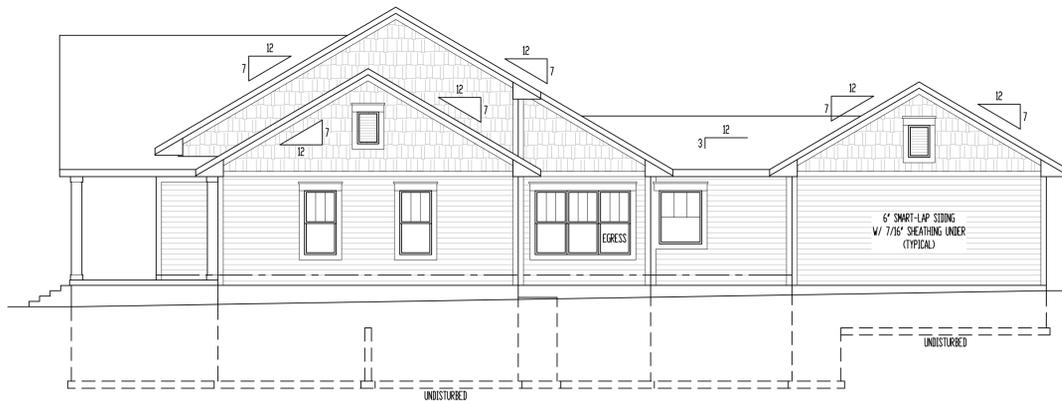


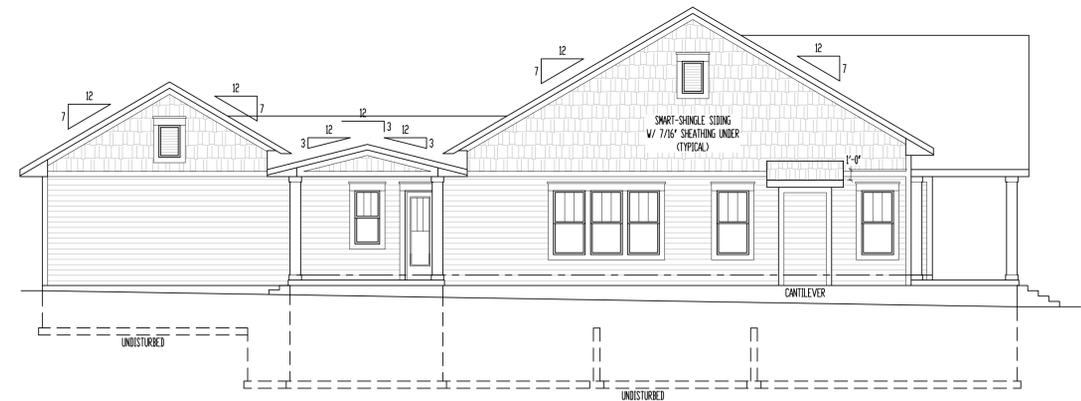
NOTE: GOVERNING CODES &
GENERAL CONTRACTOR'S WRITTEN SPECIFICATIONS
TAKE PRECEDENCE OVER THESE PLANS.



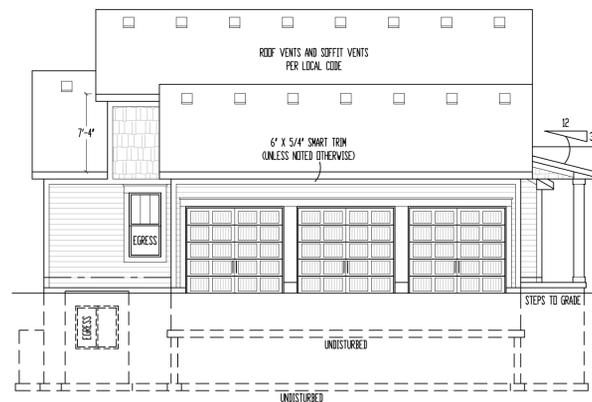
FRONT ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

- ELEVATIONS:
SMART-LAP SIDING ON ALL ELEVATIONS
COMPOSITION ROOF SHINGLES
LOCATE ROOF AND SIFFIT VENTS PER CODE
ADJUST FOUNDATION TO GRADE
- OPTIONAL DECK:
DECK CONSTRUCTION TO COMPLY WITH MUNICIPALITY'S
RESIDENTIAL DECK STANDARDS
2" X 10" @ 16" O.C. FLOOR JOISTS (MAX. SPAN 14'-0")
2" X 6" CEDAR/TTD. DECKING
6" X 6" CEDAR/TTD. POSTS
ALUMINUM SPINDLES
2" X 6" CEDAR TOP RAIL
DETERMINE OPTIONAL STAIRS ON SITE

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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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New Longview**
Street Address:
**3258 SW Pergola Park Dr.,
Lee's Summit, Missouri**

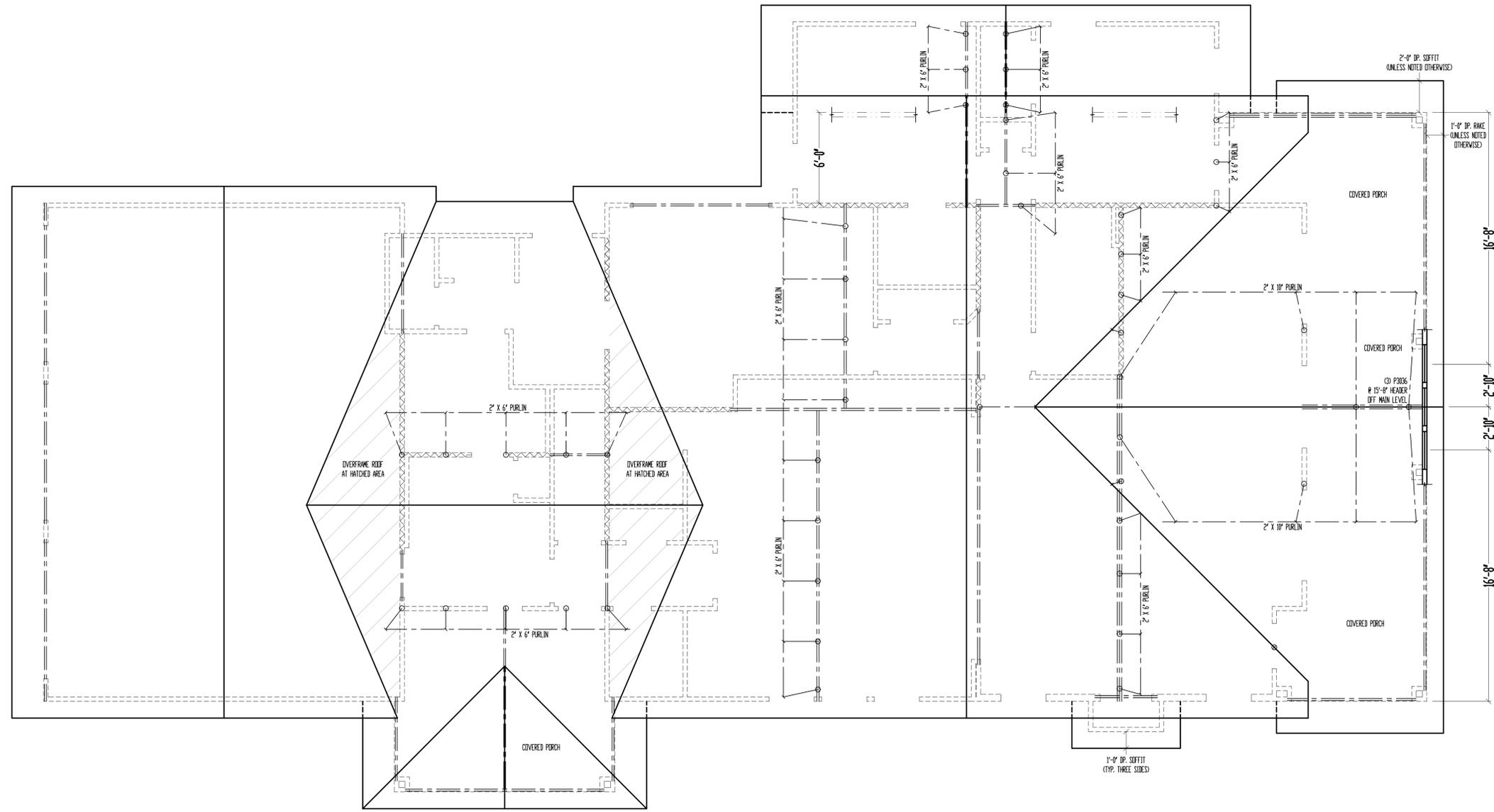
Designed for:
**Peter & Ann
JULICH**
Plan Name:
PGP-122



Date: 11-9-AD 2022
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" R2 R 16' DC, UNLESS NOTED OTHERWISE.
SEE DETAIL 7/532 FOR ALTERNATE RAFTER BEARING DETAIL WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE WALL DOUBLE TOP PLATE.

FLASHING NOTE:
D RIP EDGE, VALLEYS AND FLASHINGS TO BE METAL CLAD.

ROOF NOTES:
ROOF DESIGNED FOR LIGHT ROOF COVERING
30psf TOTAL LOAD (0psf DL, 20psf LL CSJ)

* RAFTERS OEN-FIR, DOUG-FIR, OR EQUAL
SEE SPAN CHARTS BELOW

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
R2-2x6	R24' DC	11'-7"
R2-2x6	R16' DC	14'-2"
R2-2x8	R24' DC	14'-8"
R2-2x8	R16' DC	17'-11"
R2-2x10	R24' DC	17'-8"
R2-2x10	R16' DC	21'-11"

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

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
R2-2x6	R24' DC	8'-4"
R2-2x6	R16' DC	9'-9"
R2-2x8	R24' DC	11'-3"
R2-2x8	R16' DC	12'-9"
R2-2x10	R24' DC	14'-3"
R2-2x10	R16' DC	16'-9"

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

- * VAULTS TO BE 2x10 DEPTH
- * RIDGE BRACES ARE: UNLESS OTHERWISE NOTED
 - R2-2x8 UP TO 10/12 PITCH
 - R2-2x10 OVER 10/12 PITCH
- * ALL HIP & VALLEY BRACES UNLESS OTHERWISE NOTED:
 - R2-2x8 UP TO 10/12 PITCH
 - R2-2x10 OVER 10/12 PITCH
- * PURLINS ARE 2x6 MIN.
 - PURLIN STRUTS ARE AT 4'-0" OC.
 - PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL
 - ALL PURLIN STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0"
 - PURLIN STRUTS SHALL BE CONSTRUCTED IN A "I" CONFIGURATION AND PER THE FOLLOWING CHART:

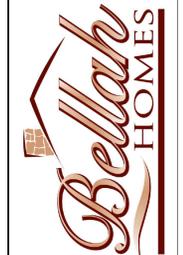
PURLIN STRUT	MAX PURLIN STRUT LENGTH
(1) 2x4	8'-0"
(1) 2x4 & (1) 2x6	12'-0"
(1) 2x6 & (1) 2x8	20'-0"
(1) 2x6 & (1) 2x8	20'-0"
(CONSULT ARCHITECT)	28'-0"

- * 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)
- * --- DENOTES BEARING WALL
- * --- DENOTES ROOF BRACE
- * --- DENOTES PURLIN
- * --- DENOTES BEARING STRUCTURE

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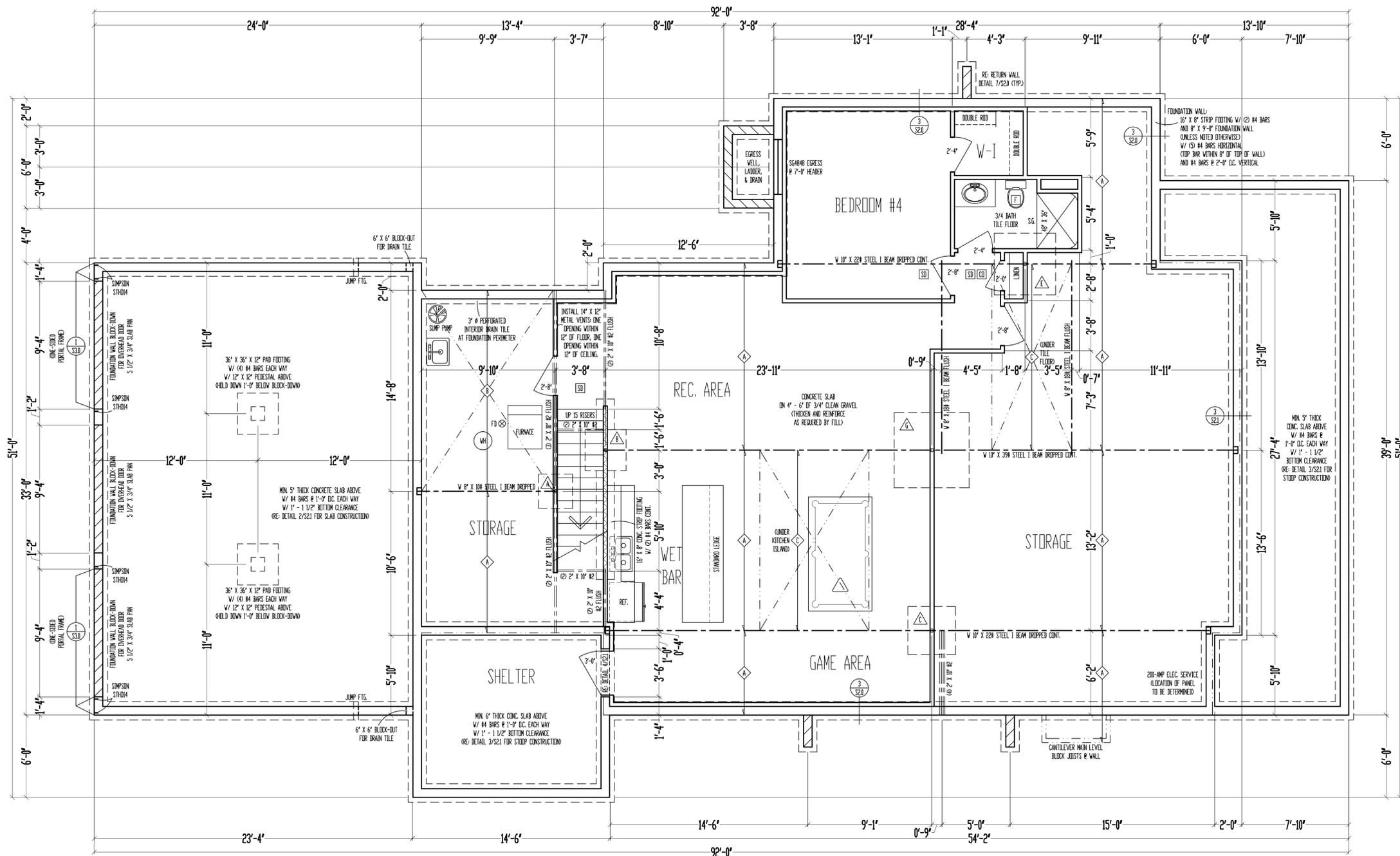
Designed for:
Peter & Ann JULICH
Plan Name:
PGP-122



Date: 11-9-AD 2022
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Rev. 2:
Rev. 3:

Sheet Title:
ROOF PLAN

Sheet No.:
A-2 of 4



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"

STEEL COLUMN & PAD FOOTING SCHEDULE	
▲	3" X 11 GA. STEEL COLUMN ON 36" X 36" X 12" PAD FOOTING W/ (4) #4 BARS EACH WAY (C250)
▲	3 1/2" X 11 GA. STEEL COLUMN ON 36" X 36" X 18" PAD FOOTING W/ (4) #4 BARS EACH WAY (C250)
▲	3" SCH. 40 STEEL COLUMN ON 42" X 42" X 12" PAD FOOTING W/ (5) #4 BARS EACH WAY (C250)
▲	3 1/2" SCH. 40 STEEL COLUMN ON 48" X 48" X 12" PAD FOOTING W/ (6) #4 BARS EACH WAY (C250)
▲	3 1/2" SCH. 40 STEEL COLUMN ON 54" X 54" X 14" PAD FOOTING W/ (7) #4 BARS EACH WAY (C250)
▲	4" SCH. 40 STEEL COLUMN ON 66" X 66" X 14" PAD FOOTING W/ (9) #4 BARS EACH WAY

PIER FOOTING SCHEDULE	
▲	16" Ø PIER FTG.
▲	18" Ø PIER FTG.
▲	24" Ø PIER FTG.

JOIST SCHEDULE	
◇	2" X 10" R2 FLOOR JOIST @ 16" O.C.
◇	2" X 10" R2 FLOOR JOIST @ 16" O.C. - DOUBLE EVERY OTHER
◇	2" X 10" R2 FLOOR JOIST @ 16" O.C. - DOUBLED

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

- FRAMING NOTES
- BASMENT LEVEL EXTERIOR WOOD-FRAMED WALLS SHALL BE SHEATHED W/ 7/16" OSB. APA PANELS W/ 80 COMMON NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE FIELD. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - ===== = 6B-1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ NO. 6 - 1 1/4" TYPE V 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" R2 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 PLATE WALLS.
 - BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL, NOT REQUIRED WITH I-JOISTS.
 - PROVIDE MULTIPLE STUDS FOR SLOD BEARING BELOW ALL BEAMS.
 - ALL DESTINATIONED 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.
 - 12-1/2" Ø ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" O.C. MAX. & WITHIN 6" - 12" OF END OF EACH PLATE LENGTH.
 - 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. PILES = 3 1/2" GLULAM
③ 1 3/4" LVL. PILES = 5 1/2" GLULAM
 - 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 ATTEMTIONED REQUIREMENTS.

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

VIEWPOINT
RESIDENTIAL DESIGN, LLC

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Lee's Summit, Missouri**

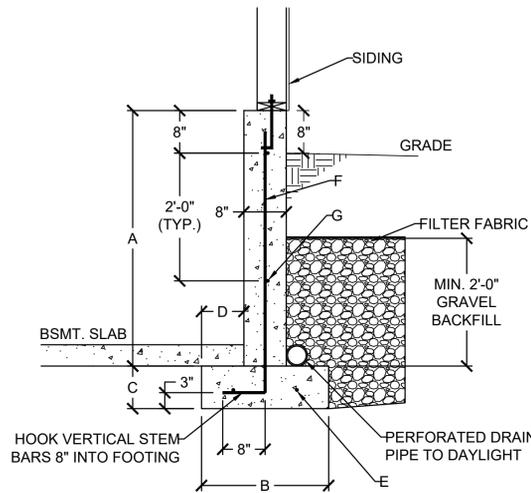
Designed for:
**Peter & Ann
JULICH**
Plan Name:
PGP-122

STATE OF MISSOURI
DENNIS AEBER
NUMBER
PE-20110001772
PROFESSIONAL ENGINEER
11-22-2022

Date: 11-9-AD 2022
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Rev. 2:
Rev. 3:

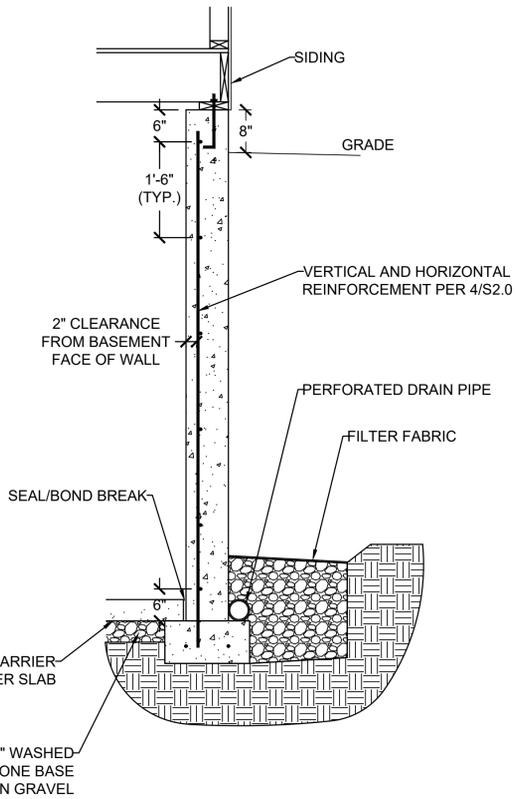
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**FOUNDATION
PLAN**

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A-4 of 4

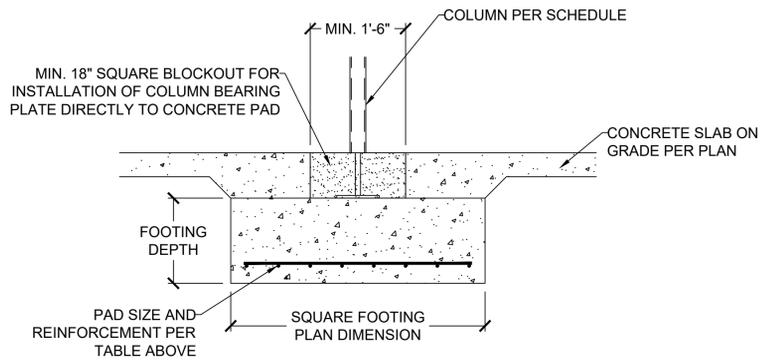


1 DAYLIGHT WALL CONSTRUCTION
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

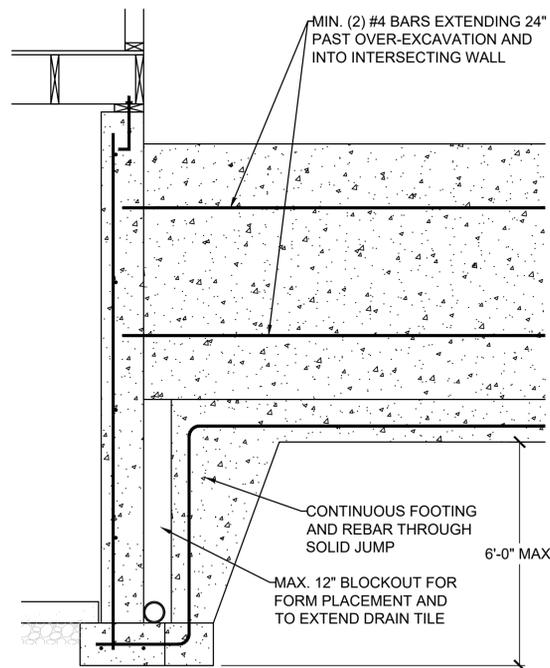
DAYLIGHT BASEMENT WALL SCHEDULE						
A	B	C	D	E	F	G
4'-0"	1'-6"	0'-8"	0'-5"	(2) #4	#4 VERT. @ 12" O.C.	(2) #4 HORIZ.
5'-0"	2'-0"	0'-8"	0'-7"	(2) #4	#4 VERT. @ 12" O.C.	(3) #4 HORIZ.
6'-0"	2'-6"	0'-8"	0'-10"	(3) #4	#4 VERT. @ 12" O.C.	(3) #4 HORIZ.



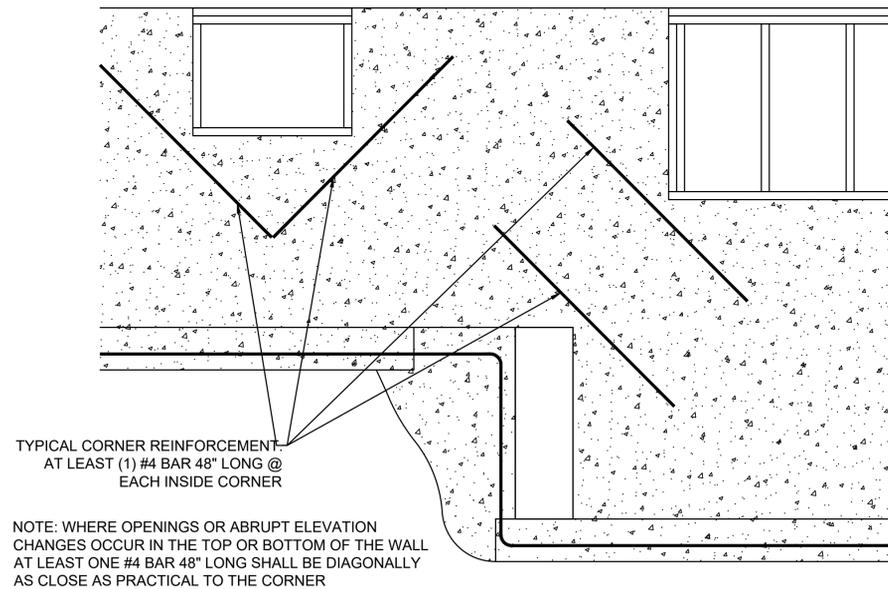
3 CONCRETE WALL SECTION
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



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

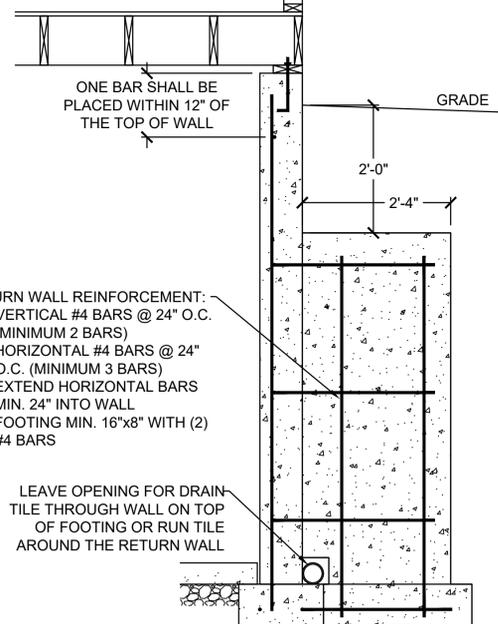


5 SOLID JUMP
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



6 REINFORCEMENT AT OPENING CORNERS AND STEP CORNERS @ INSIDE CORNERS
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



- 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

LEAVE OPENING FOR DRAIN TILE THROUGH WALL ON TOP OF FOOTING OR RUN TILE AROUND THE RETURN WALL

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

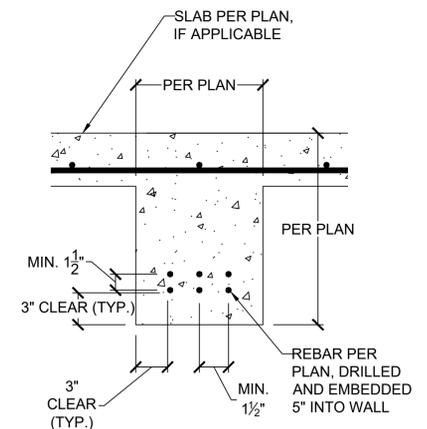
CONCRETE STRENGTH/GRADE REINFORCEMENT (#4 BARS)	8" THICK WALL			10" THICK WALL		
	8'	9'	10'	8'	9'	10'
3,000 PSI/ GRADE 40	24	24	16	24	24	18
3,500 PSI/ GRADE 40	24	24	16	24	24	18
3,000 PSI/ GRADE 60	24	24	16	24	24	18
3,500 PSI/ GRADE 60	24	24	16	24	24	18

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:**
- 1) WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB
 - 2) 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:
 - A) 8" WALL - MINIMUM 5" FROM THE OUTSIDE FACE
 - B) 10" WALL - MINIMUM 6 1/2" FROM THE OUTSIDE FACE
 - C) EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL
 - 3) REINFORCEMENT CLEARANCES:
 - A) CONCRETE EXPOSED TO EARTH - MINIMUM 1 1/2"
 - B) NOT EXPOSED TO WEATHER (INTERIOR SIDE OF WALLS) - 3/4"
 - C) CONCRETE EXPOSED TO WEATHER (TOP CLEARANCE IN GARAGE AND DRIVEWAY SLABS) - 1/2"
 - 4) HORIZONTAL REINFORCEMENT:
 - A) ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL
 - B) OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" OC
 - C) HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR) AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE)
 - D) 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.
 - 5) REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND CORNERS.
 - 6) 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.
 - 7) 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
 - 8) WALL SHALL NOT BE BACKFILLED UNTIL FLOOR SYSTEM AND DIAPHRAGM ARE IN PLACE

4 FOUNDATION WALL REINFORCEMENT TABLE
S2.0 NO SCALE



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

VISTA ENGINEERING, LLC
14718 NW DELIA STREET * PORTLAND, OREGON 97229
OFFICE: 971.255.6099 * MOBILE: 971.255.6099 *
DENNIS@VISTAENGINEERING.COM * VISTAENGINEERING.COM

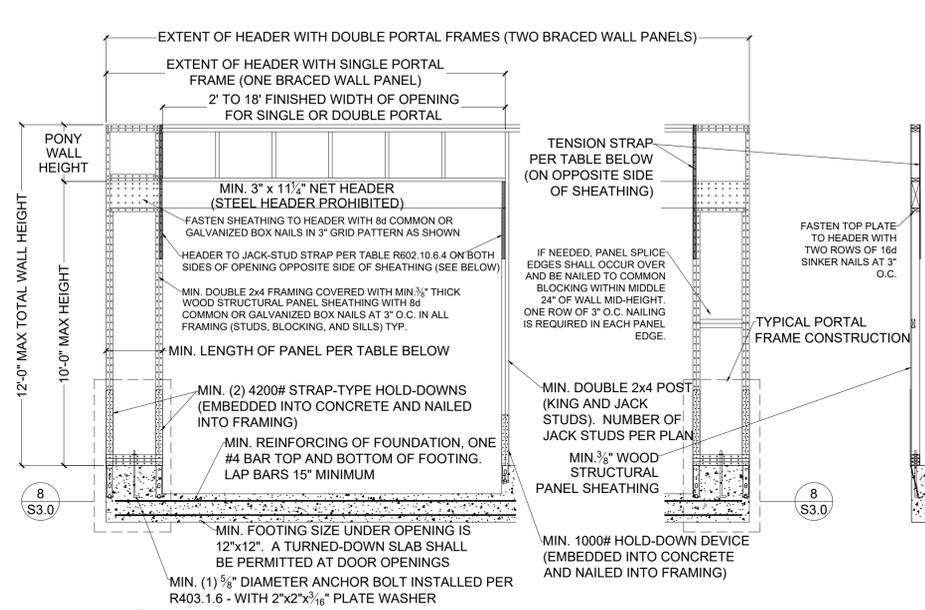
CLIENT: PETER AND ANN JULICH
JOB TITLE: PGP122 JULICH LOT 122, PERGOLA PARK, NEW LONGVIEW
LOCATION: 3258 SW PERGOLA PARK DR. LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
DENNIS HEIER
NUMBER: PE-2018001772
PROFESSIONAL ENGINEER
11-21-2022

NO.	DATE	REVISION	BY

DRAWING TITLE
FOUNDATION DETAILS

ENGINEER: DMH CHECKED BY: DMH
JOB NO. DRAWN BY: DMH
DATE: 11-21-22
SHEET NUMBER
S2.0

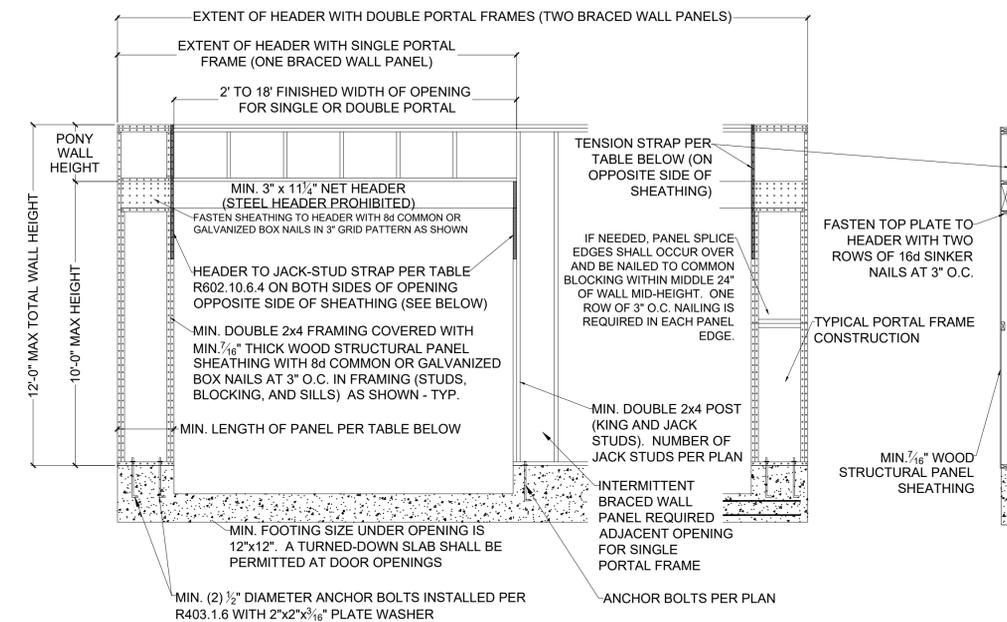


1 METHOD PFH (PORTAL FRAME WITH S3.0 HOLD-DOWNS) - PER FIGURE IRC R602.10.6.2

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

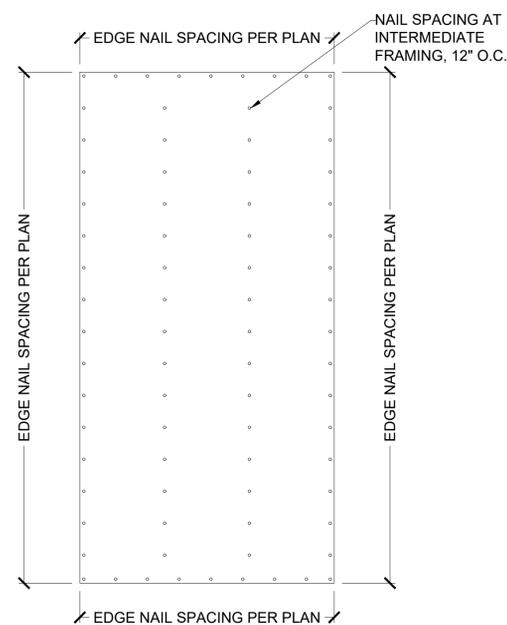


2 METHOD PFG (PORTAL FRAME AT GARAGE S3.0 DOOR) - PER FIGURE IRC R602.10.6.3

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

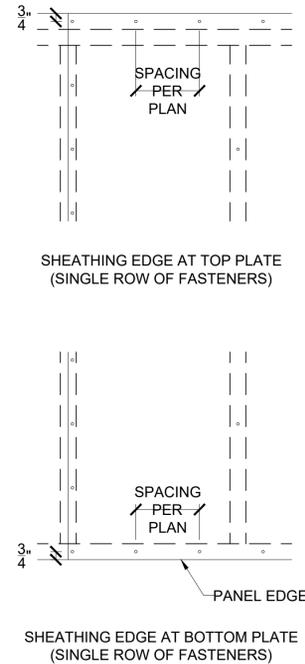
MINIMUM PANEL LENGTH FOR DETAIL 2/S3.0 (INCHES)				
WALL HEIGHT				
8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
24	27	30	33 ^a	36 ^a

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



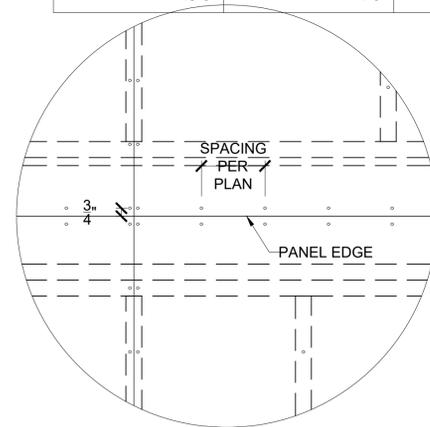
3 EXTERIOR WALL SHEATHING S3.0 PANEL ATTACHMENT

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



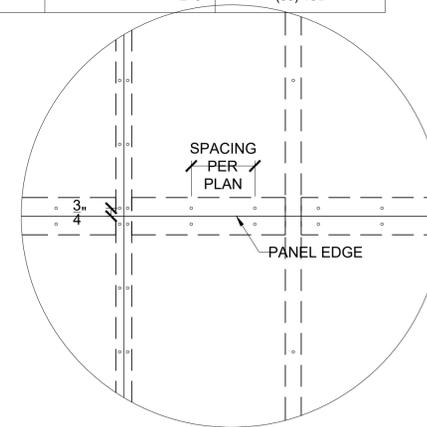
4 SHEATHING EDGE AT TOP AND BOTTOM PLATES S3.0

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



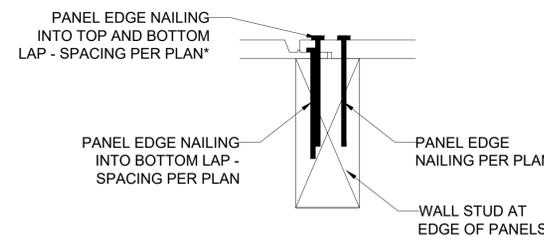
5 SHEATHING EDGE AT HORIZONTAL S3.0 FRAMING MEMBER

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



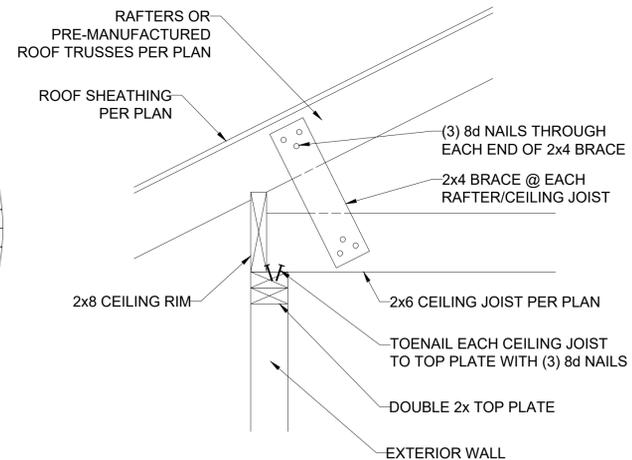
6 SHEATHING EDGE AT PANEL S3.0 SPLICE ACROSS STUDS

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



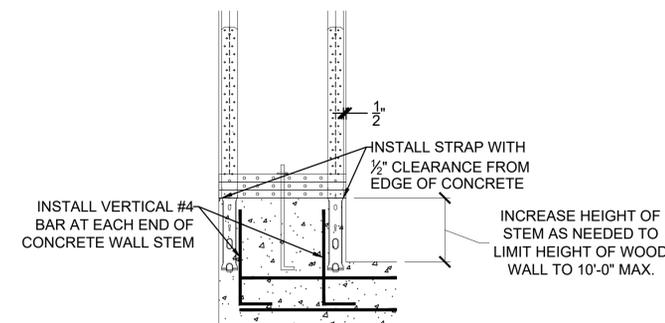
8 FASTENING INSTRUCTIONS FOR S3.0 SHIPLAP PANEL SHEATHING

SCALE: 4" = 1'-0" (18x24) OR 6" = 1'-0" (24x36)



7 RAFTER BEARING OPTION DETAIL S3.0

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



9 GARAGE HOLD-DOWN S3.0 STRAP INSTALLATION

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

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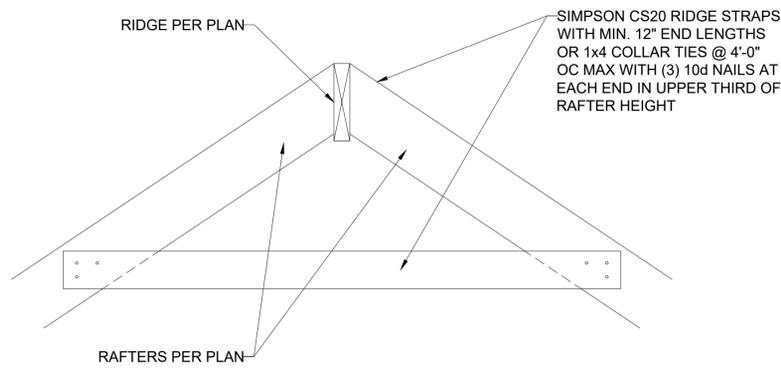
CLIENT: PETER AND ANN JULICH
 JOB TITLE: PGP122 JULICH
 LOT 122, PERGOLA PARK, NEW LONGVIEW
 LOCATION: 3258 SW PERGOLA PARK DR.
 LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
 DENNIS HEIER
 NUMBER: PE-201001772
 PROFESSIONAL ENGINEER
 11-21-2022

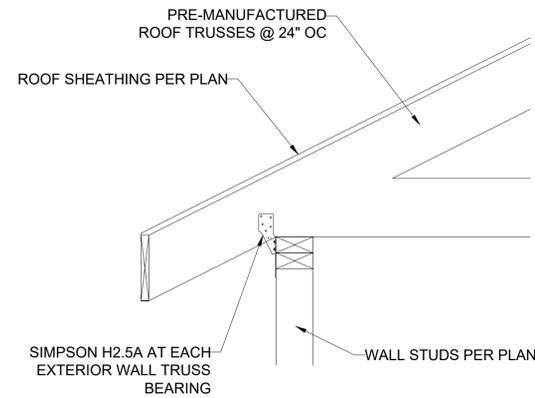
NO.	DATE	REVISION	BY

DRAWING TITLE
FRAMING DETAILS

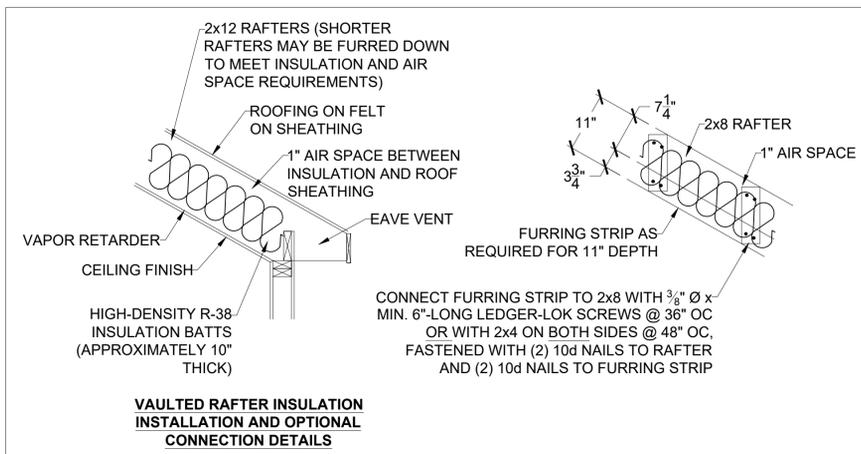
ENGINEER: DMH CHECKED BY: DMH
 JOB NO. DRAWN BY: DMH
 DATE: 11-21-22
 SHEET NUMBER
S3.0



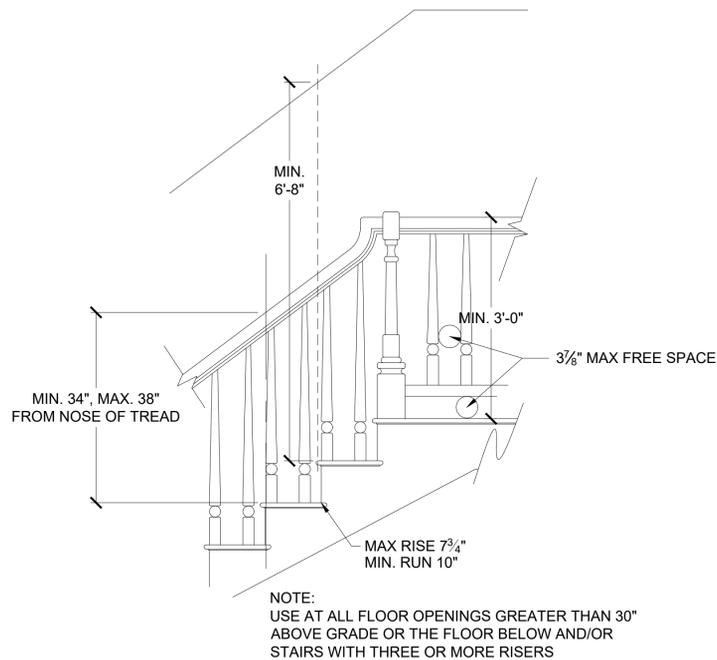
1 RIDGE FRAMING DETAIL
S3.2 SCALE: 1" = 1'-0" (18x24) OR 1 1/2" = 1'-0" (24x36)



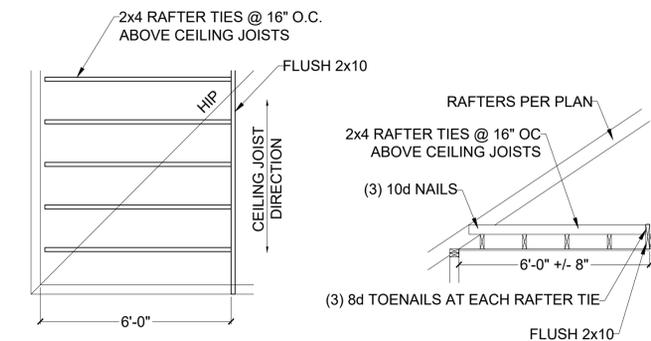
2 TRUSS CONNECTION TO EXT. WALL BEARING
S3.2 SCALE: 1" = 1'-0" (18x24) OR 1 1/2" = 1'-0" (24x36)



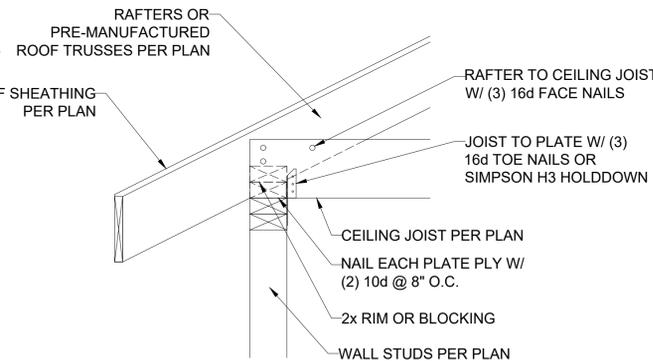
3 VAULTED RAFTER INSULATION DETAILS
S3.2 SCALE: 3/4" = 1'-0"



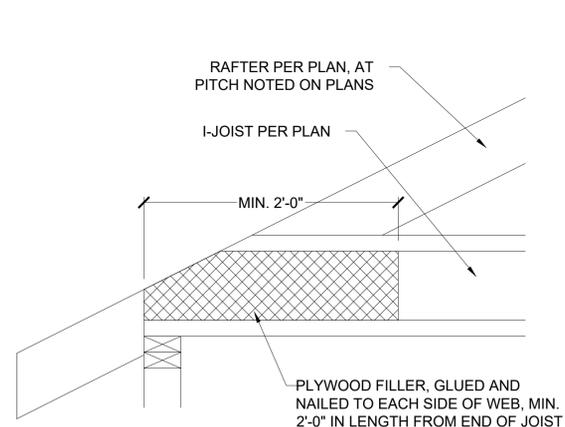
4 STAIR AND HANDRAIL/GUARDRAIL DETAIL
S3.2 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



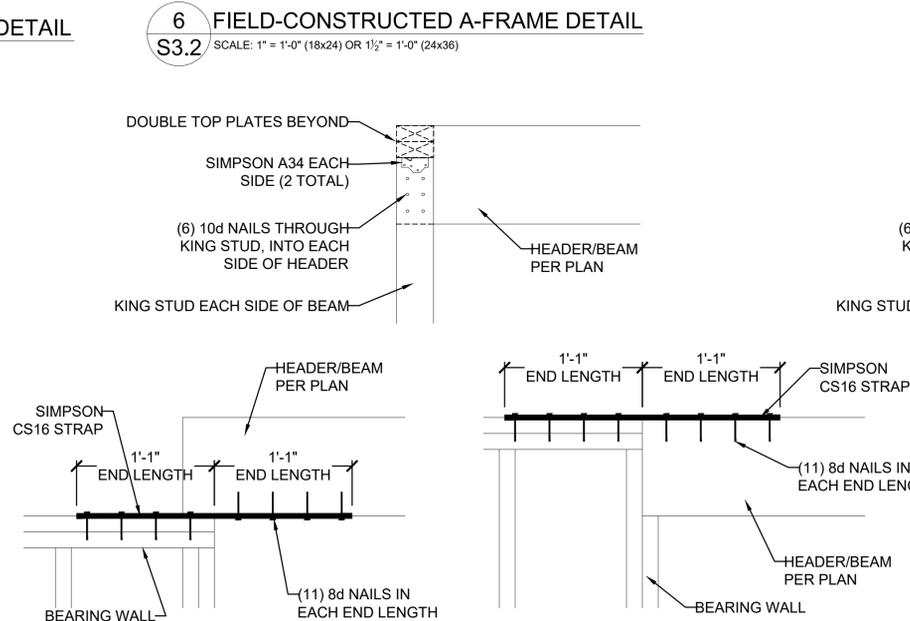
5 RAFTER TIES AT CEILING JOISTS PERP. TO RAFTERS
S3.2 SCALE: 1/2" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)



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



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



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

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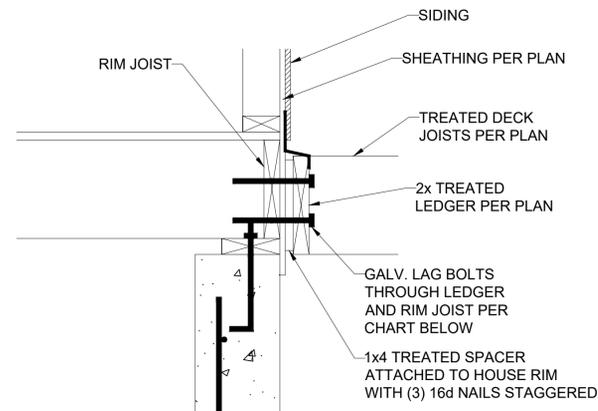
STATE OF MISSOURI
DENNIS HEIER
NUMBER: PE-2018001772
PROFESSIONAL ENGINEER
11-21-2022

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DRAWING TITLE
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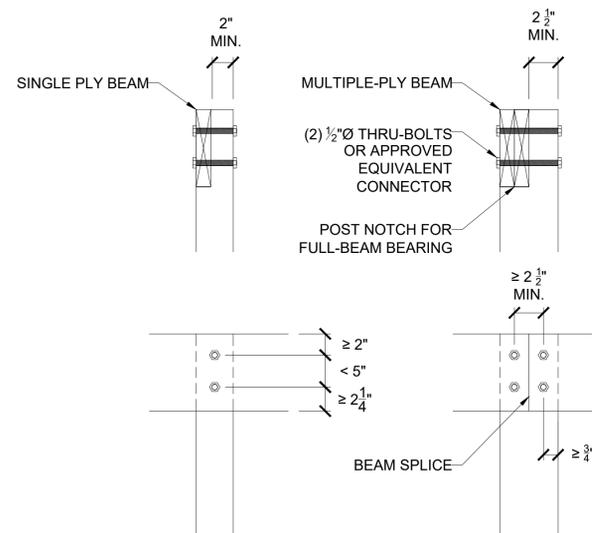
S3.2



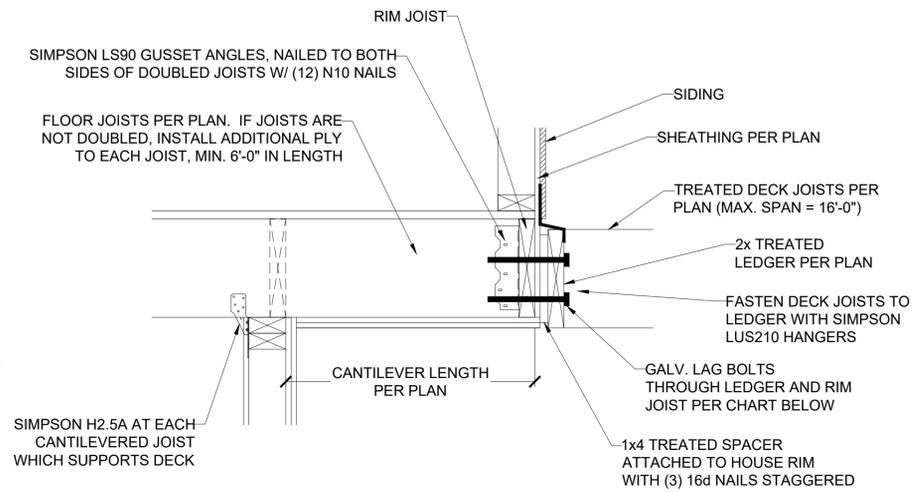
DECK LEDGER ATTACHMENT GUIDE

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

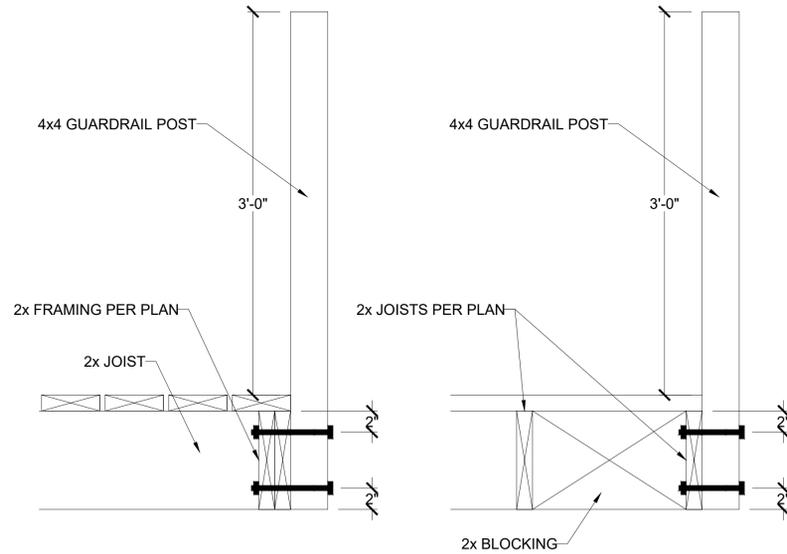
1 LEDGER ATTACHMENT
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



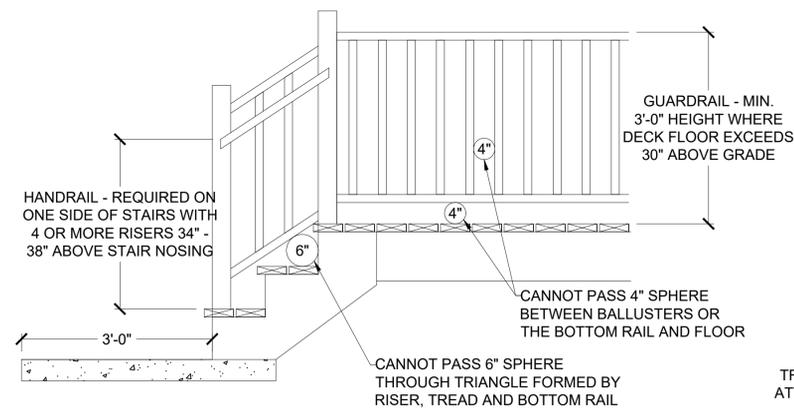
5 LET-IN (COVERED) DECK BEAM CONNECTION
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



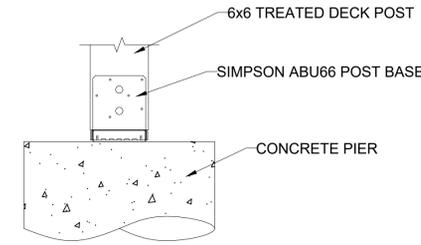
2 CANTILEVER WITH DECK ATTACHMENT
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



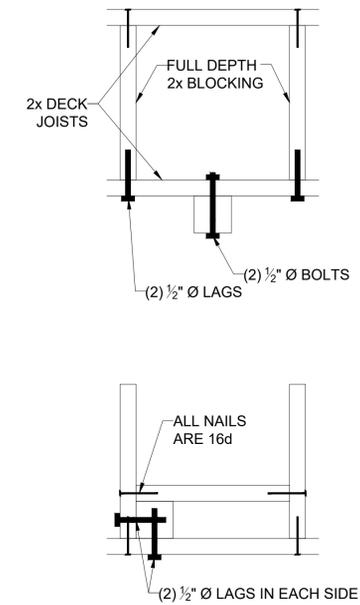
6 GUARDRAIL CONNECTION
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



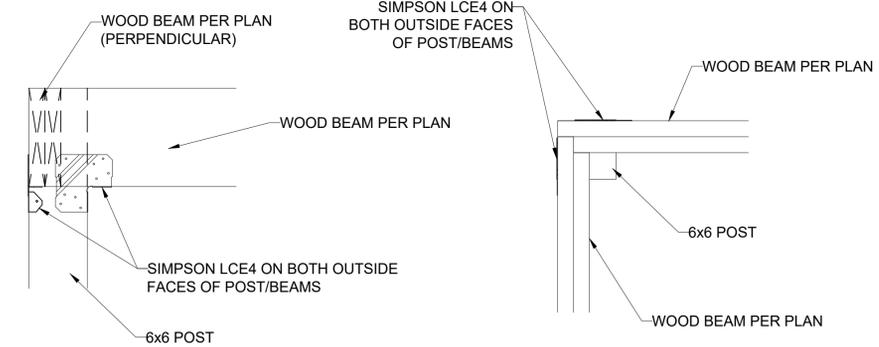
8 GUARDRAIL DETAIL
S3.3 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



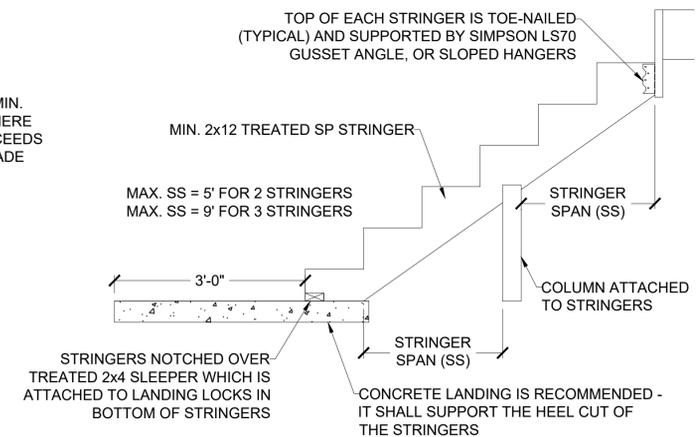
3 DECK POST BASE
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



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



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

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S3.3a

