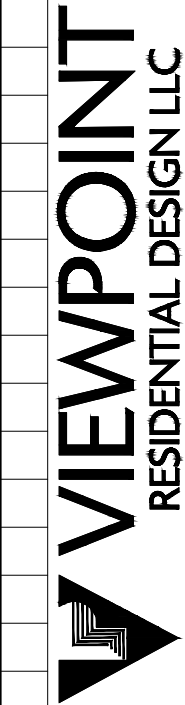


ELEVATIONS:  
SMART PANEL WOOD GRAIN SIDING ON SIDES AND REAR ELEVATIONS  
COMPOSITION ROOF SHINGLES  
LOCATE ROOF AND SOFFIT VENTS PER CODE  
ADJUST FOUNDATION TO GRADE

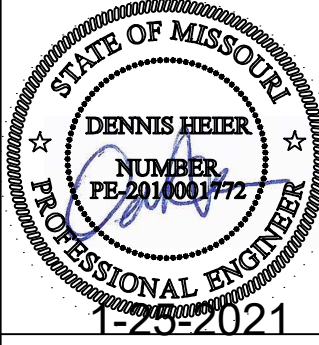
OPTIONAL DECK:  
DECK CONSTRUCTION TO COMPLY WITH MUNICIPALITY'S  
RESIDENTIAL DECK STANDARDS  
2" X 10" #2 TTD. @ 16" O.C. FLOOR JOISTS (MAX SPAN: 14'-0")  
2" X 6" TTD. DECKING  
6" X 6" TTD. POSTS  
2" X 2" TTD. SPINDLES  
2" X 6" TTD. TOP RAIL  
DETERMINE OPTIONAL STAIRS ON SITE

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CONSTRUCTION**  
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**DEVELOPMENT SERVICES**  
**LEE'S SUMMIT, MISSOURI**  
  
01/28/2021

"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)



Drawing Name:  
**The  
WOODVIEW 2**  
Site Description:  
**Lot 20,  
Whispering  
Woods**  
Property Address:  
**1721 SW River Run Dr.,  
Lee's Summit,  
Missouri**  
General Contractor:  
**Walker Custom  
Homes, LLC**

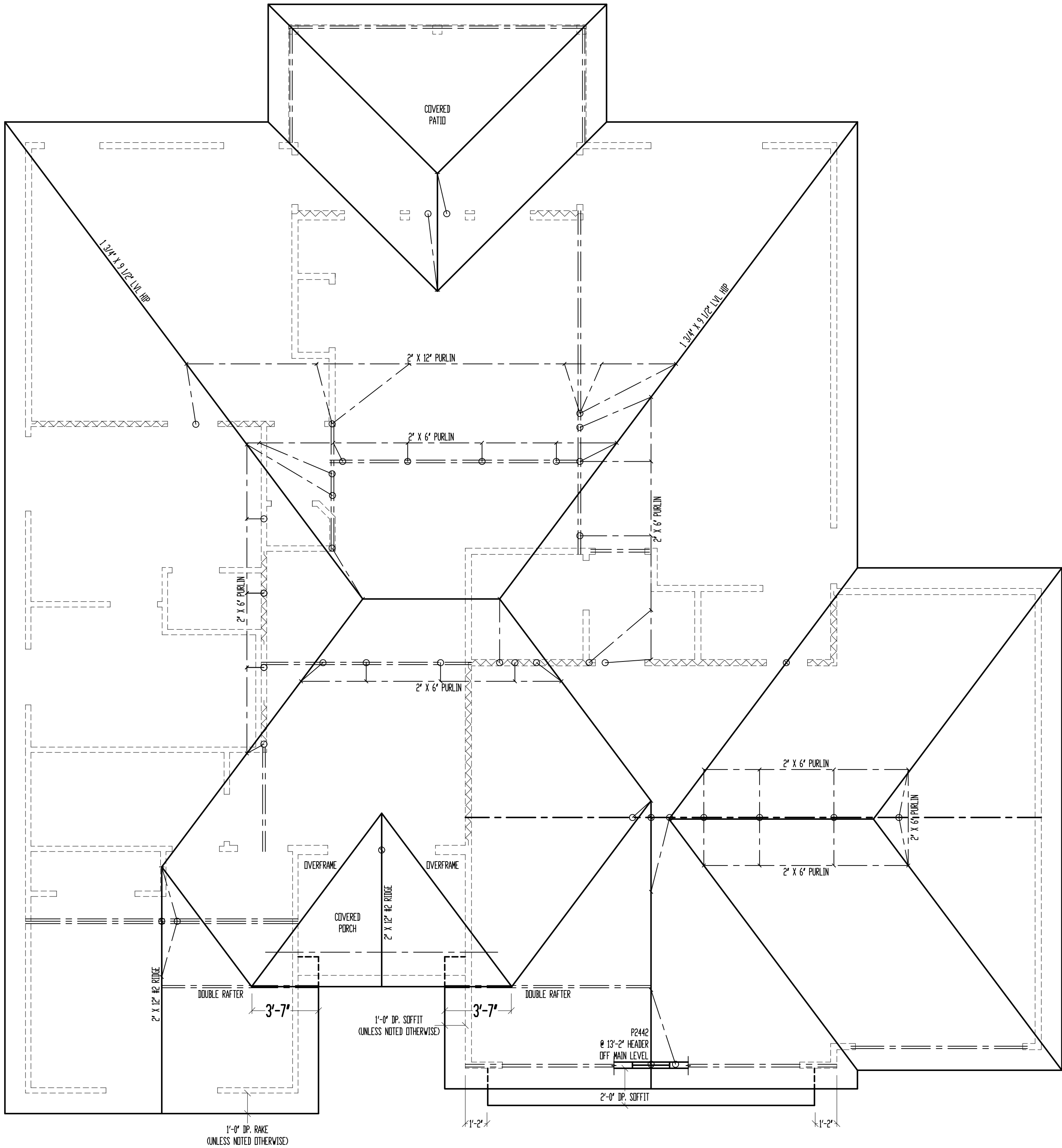


Date: 1 - 7 - AD 2021  
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Rev. 3:

Sheet Title:  
**ELEVATIONS**

Sheet No.:  
**A-1** of 4

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Because of the impossibility of any on site consultation and supervision, Viewpoint  
Residential Design, LLC, and Designer assume no responsibility for any damages,  
including structural failures, due to any deficiencies, omissions or error in the design or  
blueprints. Also, site conditions may vary from those illustrated on this plan. Designer  
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architect to determine the suitability of these plans for your specific site and application.



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LEE'S SUMMIT, MISSOURI

01/28/2021

## ROOF

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

\*ALL RAFTERS SHALL BE 2" X 6" #2 @ 16" O.C., UNLESS NOTED OTHERWISE.

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 HIPS & 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 "I" 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 ).
- \* ~~~~~ DENOTES BEARING WALL
- \* --- DENOTES ROOF BRACE
- \* --- DENOTES PURLIN
- \* --- DENOTES BEARING STRUCTURE

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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).



M/T: (816)647-4437

E: Plans@ViewpointDesign.net

Drawing Name:

### The WOODVIEW 2

Site Description:

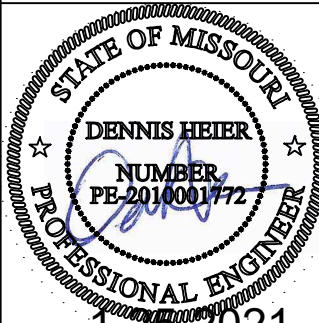
**Lot 20,  
Whispering Woods**

Property Address:

**1721 SW River Run Dr.,  
Lee's Summit,  
Missouri**

General Contractor:

**Walker CUMC  
Homes, LLC**



Date: 1 - 7 - AD 2021

Rev. 1:

Rev. 2:

Rev. 3:

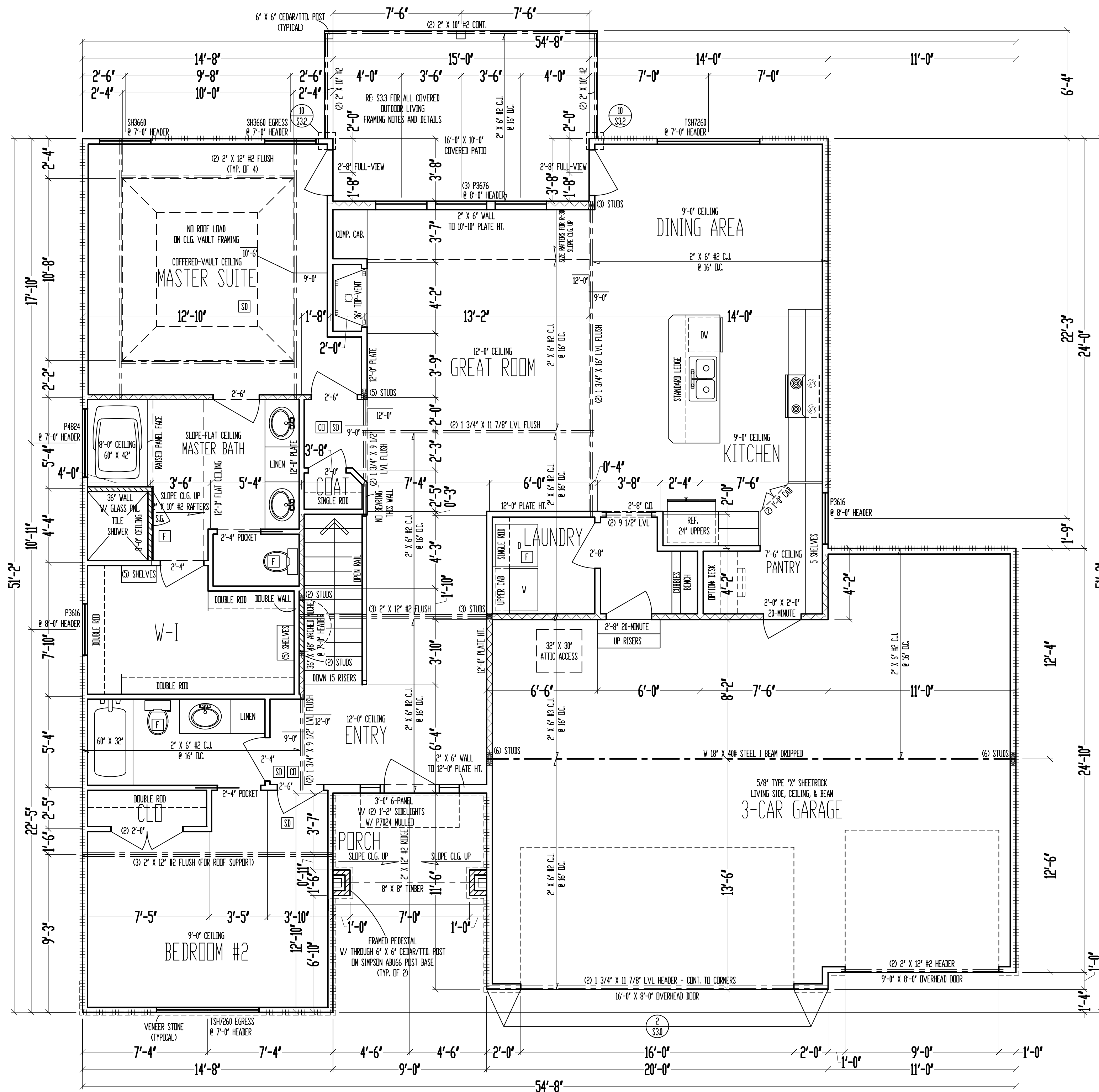
Sheet Title:

### ROOF PLAN

Sheet No.:

**A-2** of 4





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

MAIN LEVEL: 1625 SQ. FT.  
LOWER LEVEL: 951 SQ. FT.  
TOTAL: 2576 SQ. FT.

GARAGE: 704 SQ. FT.  
COV. OUT/LIV: 157 SQ. FT.  
UNFIN. BASEMENT: 475 SQ. FT.

- \*\*\*\*\* = WALL BRACING PER FRAMING NOTE #1 AND PER CALCULATIONS ON SHEET SLL
- FRAMING NOTES:  
1. MAIN 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.  
2. //////////// = GB: 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. / / / / / / / / / / = LOAD BEARING INTERIOR WALL.  
4. (2) 2" X 10" #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.  
5. LOW 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).  
13. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS.

RELEASE FOR  
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AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/28/2021

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**VIEWPOINT**  
RESIDENTIAL DESIGN LLC

MT: (816)547-4437 E: Plans@ViewpointDesign.net

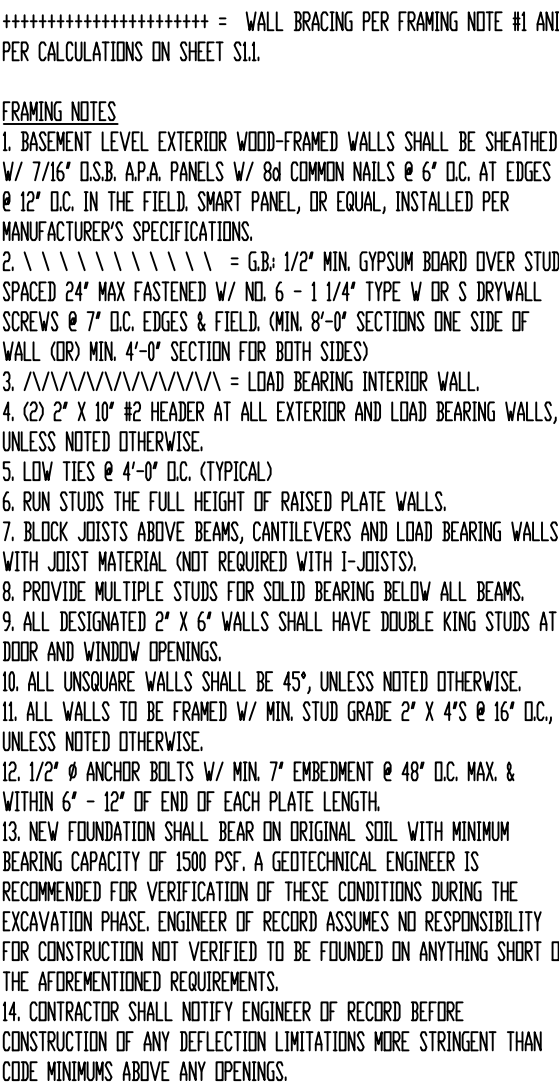
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**The WOODVIEW 2**  
Site Description:  
**Lot 20, Whispering Woods**  
Property Address:  
**1721 SW River Run Dr., Lee's Summit, Missouri**  
General Contractor:  
**Walker Custom Homes, LLC**

STATE OF MISSOURI  
DENNIS HEIER  
NUMBER  
PE-2014001772  
1-25-2021

Date: 1 - 7 - AD 2021  
Rev. 1:  
Rev. 2:  
Rev. 3:





Sheet Title:  
**MAIN LEVEL PLAN**

Sheet No.:  
**A-3** of 4



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

STEEL COLUMN & PAD FOOTING SCHEDULE	
A	3" x 11 GA STEEL COLUMN DN 30" x 30" x 10' PAD FOOTING W/ (4) #4 BARS EACH WAY (125K)
B	3 1/2" x 11 GA STEEL COLUMN DN 36" x 36" x 10' PAD FOOTING W/ (4) #4 BARS EACH WAY (180K)
C	3" SCH. 40 STEEL COLUMN DN 42" x 42" x 12' PAD FOOTING W/ (5) #4 BARS EACH WAY (245K)
D	3 1/2" SCH. 40 STEEL COLUMN DN 48" x 48" x 12' PAD FOOTING W/ (6) #4 BARS EACH WAY (320K)
E	3 1/2" SCH. 40 STEEL COLUMN DN 54" x 54" x 14' PAD FOOTING W/ (7) #4 BARS EACH WAY (405K)
F	3 1/2" SCH. 40 STEEL COLUMN DN 60" x 60" x 14' PAD FOOTING W/ (8) #4 BARS EACH WAY (500K)

PIER FOOTING SCHEDULE	
	12' Ø PIER FTG.
	16' Ø PIER FTG.
	18' Ø PIER FTG.
	24' Ø PIER FTG.

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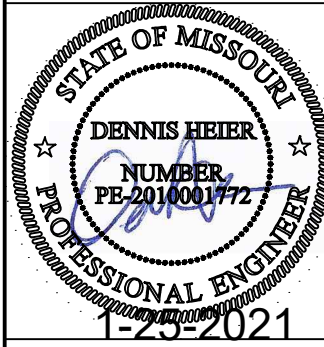
Drawing Name:  
**The  
PODVIEW 2**

---

Site Description:  
**Lot 20,  
Whispering  
Woods**

Property Address:  
**SW River Run Dr.,  
Lee's Summit,  
Missouri**

General Contractor:  
**Walker Custom  
Homes, LLC**



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Sheet Title:  
**FOUNDATION  
PLAN**

Sheet No.:  
**A-4** of 4



FASTENER SCHEDULE FOR STRUCTURAL MEMBERS		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF <sup>1</sup>		
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	4-8d (2½" x 0.113")	TOENAIL
CEILING JOISTS TO PLATE, TOE NAIL	4-8d (2½" x 0.113")	PER JOIST, TOENAIL
CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, FACE NAIL	4-10d (3" x 0.128")	FACE NAIL
CEILING JOIST TO PARALLEL RAFTER (HEEL JOINT)	TBLE R802.5.2	FACE NAIL
COLLAR TIE TO RAFTER, FACE NAIL OR 1 ¼" x 20 GA. RIDGE STRAP TO RAFTER	4-10d (3" x 0.128")	FACE NAIL, EACH RAFTER
RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX NAILS (3½" x 0.135") OR 3-10d COMMON NAILS (3" x 0.148")	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
WALL		
STUD TO STUD (NOT AT BRACED WALL PANELS)	10d (3" x 0.128")	16" O.C. FACE NAIL
STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d (3½" x 0.135")	12" O.C. FACE NAIL
BUILT-UP HEADER, TWO PIECES WITH ½" SPACER	16d (3½" x 0.135")	12" O.C. EACH EDGE FACE NAIL
CONTINUOUS HEADER TO STUD	4-8d (2½" x 0.131")	TOENAIL
TOP PLATE TO TOP PLATE	10d (3" x 0.128")	12" O.C. FACE NAIL
DOUBLE TOP PLATE SPLICE	8-16d COMMON (3 ½" x 0.162")	FACE NAIL ON EACH SIDE OF END JOINT (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 ½" x 0.162")	16" O.C. FACE NAIL
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (AT BRACED WALL PANEL)	3-16d BOX (3 ½" x 0.135")	3 EACH 16" O.C. FACE NAIL
TOP OR SOLE PLATE TO STUD, END NAIL	4-8d BOX (2 ½" x 0.113") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL	TOENAIL, END NAIL (SEE LEFT)
TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128")	FACE NAIL
1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 ½" x 0.113")	FACE NAIL
1"x6" SHEATHING TO EACH BEARING	3-8d BOX (2 ½" x 0.113")	FACE NAIL
1"x8" SHEATHING TO EACH BEARING	3-8d BOX (2 ½" x 0.113") - FACE NAIL; WIDER THAN 1"x8" - 4-8d BOX (2 ½" x 0.113")	FACE NAIL
FLOOR		
JOIST TO SILL, TOP PLATE, OR GIRDER	4-8d BOX (2 ½" x 0.113")	TOE NAIL
RIM JOIST, BAND JOIST, OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d BOX (2 ½" x 0.113")	4" O.C. TOE NAIL
1" x 6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2 ½" x 0.113")	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3 ½" x 0.135")	BLIND AND FACE NAIL
2" PLANKS (PLAN & BEAM - FLOOR AND ROOF)	3-16d BOX (3 ½" x 0.135")	AT EACH BEARING, FACE NAIL
BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 ½" x 0.162")	END NAIL
BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10d BOX (3" x 0.128")	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16d BOX (3 ½" x 0.135")	AT EACH JOIST OR RAFTER, FACE NAIL
BRIDGING OR BLOCKING TO JOIST	2-10d BOX (3" x 0.128")	EACH END, TOENAIL

FASTNER SCHEDULE FOR STRUCTURAL MEMBERS			
DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER	EDGE SPACING (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING <sup>1</sup>			
¾" - ½"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	12
⅝" - 1"	8d COMMON NAIL (2½" x 0.131")	6	12
1⅝" - 1¼"	10d COMMON (3" x 0.148") NAIL OR 8d (2½" x 0.131") DEFORMED NAIL	6	12
OTHER WALL SHEATHING <sup>1</sup>			
½" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 ¾" GALVANIZED ROOFING NAIL, ⅝" HEAD DIAMETER, OR 1 ¾" LONG 16 GA. STAPLE WITH ⅝" OR 1" CROWN	3	6
⅝" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 ¾" GALVANIZED ROOFING NAIL, ⅝" HEAD DIAMETER, OR 1 ¾" LONG 16 GA. STAPLE WITH ⅝" OR 1" CROWN	3	6
½" GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1½" SCREWS, TYPE W OR S	7	7
⅝" GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1½" SCREWS, TYPE W OR S	7	7
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
¾" AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2½" x 0.131") NAIL	6	12
¾" - 1"	8d COMMON (2½" x 0.131") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12
1⅝" - 1¼"	10d COMMON (3" x 0.148") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12

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

FOUNDATION NOTES

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, 3000 PSI FOR FOUNDATION WALLS, AND 3500 PSI FOR PORCHES AND GARAGE FLOOR SLABS
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 OR OTHER EQUIVALENT MATERIALS PER IRC SECTION R405.1. THE PIPE SHALL BE COVERED WITH A MINIMUM OF 6" OF GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT BELOW FOOTING LEVEL OR TERMINATE IN A MINIMUM 20 GALLON SUMP PIT.
4. FOUNDATION SHALL BE DESIGNED FOR A BEARING CAPACITY OF 1500 PSF AND FOUNDED ON COMPETENT ORIGINAL SOIL AS DETERMINED AND CONFIRMED BY A LICENSED GEOTECHNICAL ENGINEER OR ENGINEERING GEOLOGIST. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANY SOIL WITH THE AFOREMENTIONED MINIMUM PROPERTIES.
5. FOOTINGS SHALL BE A MINIMUM OF 16" WIDE x 8" DEEP AND SHALL HAVE A MINIMUM OF (2) CONTINUOUS GRADE 40 #4 BARS WITH 3" BOTTOM CLEARANCE. BOTTOM OF FOOTING SHALL BE LOCATED A MINIMUM OF 3'-0" BELOW GRADE FOR FROST PROTECTION.
6. CONCRETE PADS SUPPORTING COLUMN LOADS SHALL BE NO SMALLER THAN 2'-0" x 2'-0" x 1'-0" DEEP WITH A MINIMUM OF (4) GRADE 40 #4 BARS EACH WAY WITH 3" BOTTOM CLEARANCE
7. FOUNDATION WALLS SHALL BE A MINIMUM OF 8" NOMINAL WIDTH AND SHALL HAVE HOIZONTAL GRADE 40 #4 BARS AT 2'-0" O.C. MAX. WITH VERTICAL #4 BARS AS REQUIRED ON FOUNDATION CROSS SECTION ON SHEET S2.0
8. REINFORCEMENT SHALL LAP A MINIMUM OF 2'-0" (CLASS B SPLICE)
9. INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB
10. BASEMENT FLOOR SLAB SHALL BE A MINIMUM OF 4" THICK ON A MINIMUM BASE COURSE OF 4" TO 6" OF SAND, GRAVEL OR CRUSHED ROCK. BETWEEN THE BASE COURSE AND FLOOR SLAB SHALL BE PLACED A 6-MIL POLY VAPOR RETARDER WITH MINIMUM OVERLAP OF 6" AT DISCONTINUITIES
11. IF A FLOOR IS TO BE SUPPORTED BY A MINIMUM OF 2'-0" OF GRANULAR FILL OR 8" OF EARTH, BASEMENT SLAB SHALL BE DESIGNED BY A LICENSED ENGINEER
12. SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH ½" Ø ANCHOR BOLTS EMBEDDED A MINIMUM OF 7" INTO CENTER OF WALL STEM AND SHALL BE INSTALLED AT A MAXIMUM OF 6'-0" O.C. (OR AS NOTED ON PLANS) AND SHALL BE INSTALLED WITHIN 6" TO 12" OF EACH END OF EACH SILL PLATE LENGTH, PER IRC SECTION R403.1.6
13. FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET S2.0
14. THE GARAGE FLOOR SHALL SLOPE TOWARD THE VEHICLE DOORS OR TO A TRENCH OR UNTRAPPED DRAIN THAT DISCHARGES TO THE EXTERIOR, ABOVE GRADE

FRAMING NOTES

15. ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS-FIR-LARCH GRADE #2, UNLESS NOTED OTHERWISE ON PLANS
16. ALL INTERIOR LOAD-BEARING AND EXTERIOR WALL HEADERS SHALL BE (2) #2 - 2x10's, UNLESS NOTED OTHERWISE ON PLANS
17. BLOCK OVER BEAMS AND AT CANTILEVERS AND DOOR JAMBS
18. INTERIOR NON-BEARING WALLS RESTING ON BASEMENT SLAB SHALL BE ISOLATED FROM ABOVE FRAMING BY A MINIMUM OF ½"
19. ALL HEADERS/BEAMS SHALL BEAR ON A MINIMUM OF (2) 2x4 POSTS (KING AND JACK STUDS), UNLESS NOTED OTHERWISE
20. WHERE JOISTS SPAN PARALLEL TO FOUNDATION, BLOCKING SHALL BE PROVIDED IN THE TWO SPACES MOST ADJACENT TO THE FOUNDATION WALL AT 4'-0" O.C. FOR THE PURPOSE OF TRANSFERRING LATERAL FOUNDATION WALL LOAD TO THE FLOOR DIAPHRAGM. FASTEN JOISTS AND BLOCKING TO SILL PLATE WITH (4) 10d NAILS. IF MECHANICAL DUCTWORK IS INSTALLED IN ONE OF THESE FIRST TWO BAYS, FASTEN 2x4's FLAT AT 4'-0" O.C. BETWEEN JOIST(S) AND/OR SILL AND PROVIDE BLOCKING AS PRESCRIBED ABOVE IN THE NEXT TWO JOIST BAYS. SECURE 2x4's TO JOIST(S) SILL PLATE WITH (4) 10d NAILS.
21. ALL WOOD MATERIAL SUPPORTED ON CONCRETE OR MASONRY SHALL BE TREATED OR OF DECAY-RESISTANT MATERIAL
22. JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD.
23. JOISTS FRAMING INTO THE FACE OF A STEEL OR WOOD BEAM SHALL BE SUPPORTED WITH APPROPRIATE COLD-FORMED STEEL JOIST HANGERS
24. JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID BLOCKING MIN. 1½" IN THICKNESS OR BY FASTENING RIM TO JOISTS PER FASTENING TABLE TO LEFT
25. ALL WALL COVERINGS SHALL COMPLY WITH IRC SECTION R702.3
26. ALL RAFTERS AND COLLAR TIES SHALL COMPLY WITH IRC SECTION R802.3
27. ALL RAFTERS SHALL HAVE 2x4 COLLAR TIES @ 4'-0" O.C. IN UPPER ½ OF VERTICAL DISTANCE BETWEEN CEILING AND ROOF
28. BLOCKING BETWEEN JOISTS UNDER A LOAD-BEARING WALL IS NOT REQUIRED
29. PER IRC SECTION 501.3, BOTTOM OF ALL FLOOR ASSEMBLIES ABOVE UNFINISHED AREAS SHALL BE PROVIDED WITH A ½" GYPSUM BOARD MEMBRANE OR RESIDENTIAL FIRE SPRINKLER SYSTEM WHEN FLOOR SYSTEM IS CONSTRUCTED OF OTHER THAN DIMENSION LUMBER OR STRUCTURAL COMPOSITE LUMBER EQUAL TO OR GREATER THAN 2x10 NOMINAL DIMENSION(WHERE REQUIRED BY ENFORCING JURISDICTION)
30. ENGINEERED LVL's SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E=1900 ksi, AND Fv=285 psi
31. ENGINEERED PARALLAMS SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E = 2000 ksi, AND Fv = 290 psi
32. COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. ½" x 2" BOLTS SHALL THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTIFIED INSPECTOR.
33. WHEN MECHANICAL EQUIPMENT IS LOCATED IN AN ENCLOSED ROOM, THERE SHALL BE (2) 14"x12" VENTS LOCATED IN A WALL COMMON WITH ADDITIONAL LIVING AREA. ONE VENT SHALL BE LOCATED SUCH THAT THE BOTTOM OF THE VENT BEGINS 12" FROM THE FLOOR AND THE OTHER VENT SHALL BE LOCATED SUCH THAT THE TOP OF THE VENT BEGINS 12" FROM THE CEILING.
34. ALL ROOF SHEATHING SHALL BE ⅝" OSB WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD

GLAZING NOTES

35. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 2'-0" ARC OF THE DOOR IN A CLOSED POSITION AND FOR WHICH THE BOTTOM EDGE IS WITHIN 5'-0" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 5'-0" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS, GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING NINE SQUARE FEET AND FOR WHICH THE BOTTOM EDGE IS LESS THAN 1'-6" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 3'-0"
36. ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC SECTION R612.2

ATTIC VENTILATION

37. ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH ½" TO ¾" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/160 OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED - THE REQUIRED AREA MAY BE REDUCED TO 1/300.

EMERGENCY EGRESS

38. PROVIDE A MINIMUM OF ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPENABLE HEIGHT OF 2'-0" AND A MINIMUM WIDTH OF 1'-9". IN ADDITION, THE OPENABLE PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 3'-8" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP.
39. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR, INCLUDING BASEMENT (IF APPLICABLE). ALARMS SHALL BE HARDWIRED TOGETHER SO THAT THE ACTIVATION OF ONE SMOKE ALARM WILL ACTIVATE ALL SMOKE ALARMS IN THE DWELLING. PROVIDE CARBON MONOXIDE DETECTORS OUTSIDE EACH SLEEPING AREA.

MASONRY VENEER

40. MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-RESISTANT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1½", WITH NOT LESS THAN ¾" MORTAR OR GROUT COVER TO OUTSIDE FACE.
41. VENEER TIES, IF STRAND WIRE, SHALL NOT BE LESS IN THICKNESS THAN NO. 9 U.S. GAGE WIRE AND SHALL HAVE A HOOK EMBEDDED IN THE MORTAR JOINT, OR IF SHEET METAL, SHALL BE NOT LESS THAN NO. 22 U.S. GAGE BY ½" CORRUGATED.
42. EACH TIE SHALL SUPPORT NOT MORE THAN 2.67 SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE THAN 32 INCHES ON CENTER HORIZONTALLY AND 24 INCHES ON CENTER VERTICALLY.
43. VENEER TIES AROUND WALL OPENINGS: ADDITIONAL METAL TIES SHALL BE PROVIDED AROUND ALL WALL OPENINGS GREATER THAN 16 INCHES IN EITHER DIMENSION. METAL TIES AROUND THE PERIMETER OF OPENINGS SHALL BE SPACED NOT MORE THAN 3 FEET ON CENTER AND PLACED WITHIN 12 INCHES OF THE WALL OPENING.

GARAGE NOTES

44. DOOR(S) BETWEEN THE GARAGE AND DWELLING SHALL BE MINIMUM 1½" SOLID CORE OR HONEY-COMBED STEEL DOOR WITH 20-MINUTE FIRE RATING EQUIPPED WITH A SELF-CLOSING DEVICE
45. VEHICLE DOORS AND FRAMES SHALL BE INSTALLED TO MEET THE 115-MPH 3-SECOND GUST LOADING PER DASMA 108 AND ASTM E 2308-99 (RC-218)

REVISION FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

01/28/2021

GARAGE NOTES (CONTINUED)

44. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM ¾" GYP. BOARD APPLIED TO THE GARAGE SIDE OF FRAMING. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE, THE GARAGE CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM ¾" TYPE X GYP. BOARD. WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH ¾" GYP. BOARD.
45. GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING AND SHALL BE FASTENED WITH 2½"" x 0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3½" x 0.120" NAILS THROUGH THE JAMB INTO THE HEADER. MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

DESIGN LOADING (PER TABLE R301.5)

MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (PSF)	USE	
	LIVE LOAD	DEAD LOAD
UNINHABITABLE ATTICS WITHOUT STORAGE	10	10
UNINHABITABLE ATTICS WITH LIMITED STORAGE	20	10
HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS	30	10
BALCONIES (EXTERIOR) AND DECKS	40	10 <sup>d</sup>
FIRE ESCAPES	40	10
GUARDRAILS AND HANDRAILS <sup>a</sup>	200 <sup>c</sup>	-
GUARDRAIL IN-FILL COMPONENTS <sup>b</sup>	50 <sup>c</sup>	-
PASSENGER VEHICLE GARAGES	50	DEPENDENT UPON SLAB CONSTRUCTION
ROOMS OTHER THAN SLEEPING ROOM	40	10 <sup>d</sup>
SLEEPING ROOM	30	10 <sup>d</sup>
STAIRS	40	10 <sup>d</sup>

- a. A single concentrated load applied in any direction at any point along the top.
- b. Guard in-fill components (all those except the handrail), ballusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to one square foot. This load need not be assumed to act concurrently with any other live load requirement.
- c. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the in-fill components. These loads shall be determined independently of one another, and loads are assumed not to occur with any other live load.
- d. An additional dead loading of 10 psf shall be applied where thinslet tile floor is to be installed. An additional dead loading of 50 psf shall be applied where mudset tile floor is to be installed.

INSULATION/EFFICIENCY

1. BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.1 OR THE 2012 IECC (SEE SHEET S3.1 FOR FRAMING DETAILS AND TABLES ON THIS SHEET FOR MORE INFORMATION)
2. CATHEDRAL -VAULTED CEILING FRAMING SHALL BE FRAMED WITH A MINIMUM INSULATION VALUE OF R-38. IF VAULTED RAFTERS DO NOT PROVIDE REQUIRED DEPTH TO ACHIEVE R-38 INSULATION BUILDER SHALL FUR DOWN RAFTERS PER DETAILS PROVIDED ON SHEET S3.1.

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (TABLE N1102.1.1)	
CLIMATE ZONE	4-A
FENESTRATION U-FACTOR	0.35
SKYLIGHT U-FACTOR	0.55
GLAZED FENSTRATION SHGC	0.40
CEILING R-VALUE	49
WOOD FRAME WALL R-VALUE	15
MASS WALL R-VALUE	8 / 13
FLOOR R-VALUE	19
BASEMENT WALL R-VALUE	10-CONTINUOUS OR 13-CAVITY
SLAB R-VALUE AND DEPTH	10 AT 2'-0"
CRAWL SPACE WALL R-VALUE	10-CONTINUOUS OR 13-CAVITY
DUCTWORK EXPOSED TO OUTSIDE AIR R-VALUE	8
DUCTWORK NOT EXPOSED TO OUTSIDE AIR R-VALUE	6
CATHEDRAL VAULTED CEILING R-VALUE	38

DUCT SEALING

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

EXCEPTIONS:

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 SO AS TO PREVENT A HINGE EFFECT.
3. CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES OF WATER COLUMN PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.

DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING:

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, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.
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, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST, TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA.

EXCEPTION: THE TOTAL LEAKAGE TEST IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

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

VISTA

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CLIENT: WALKER CUSTOM HOMES  
JOB TITLE: WWS020 SPEC - THE WOODVIEW 2  
LOT 20, WHISPERING WOODS  
LOCATION: LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI

DENNIS HEIER

NUMBER

PE-2014001772

PROFESSIONAL ENGINEER

1-25-2021

NO.	DATE	REVISION	BY
DRAWING TITLE			
STRUCTURAL NOTES			
ENGINEER: DMH		CHECKED BY: DMH	
JOB NO. 3052		DRAWN BY: DMH	
DATE: 1-25-21			
SHEET NUMBER			

S1.0



RESIDENTIAL SEISMIC & WIND ANALYSIS

DETERMINE WEIGHT OF HOUSE:				INPUT
CALCULATED VALUE				
LOCATION		DEAD LOAD (psf)	AREA (ft²)	WEIGHT (lbs.)
ROOF		10	2703	27030
CEILING		10	2703	27030
FIRST FLOOR		10	2703	27030
	WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)
FIRST FLOOR EXT. WALL DL	223.88	10	10	22388
FIRST FLOOR INT. PARTITION WALL DL		DEAD LOAD (psf)	AREA (ft²)	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	
SLOPED ROOF	246	2093		SLOPED ROOF	502	4268	
VERT. ROOF	170	2113	CUMULATIVE	VERT. ROOF	0		CUMULATIVE
1ST	612.37	7613	11895	1ST	617.87	7675	12018
BSMT <sup>a</sup>	0	0	0	BSMT <sup>a</sup>	108	1529	7538
PRESSURE (PSF) - PER ASCE CH. 6							
	SLOPED ROOF	ZONE B	9.7		ZONE C	11.3	2a (FIG. 28.6-1, ASCE7)
	WALL/VERT. ROOF	ZONE A	14.2		ZONE D	7.7	11.134
	MEAN ROOF HT., h		24				

a) If there is a walkout wall to be sheathed, determine tributary wind area and enter here. If no walkout, enter 0 for area.  
 $q_{e10} = 0.00256 K_d K_e K_z V^2$  (ASCE7-10 Velocity Pressure)  $q_{e10, ASD} = 0.6 q_{e10}$  (Design Velocity Pressure for ASD analysis under ASCE7-10 and IRC/IBC 2012)

1ST FLOOR TRIBUTARY WEIGHT  
BASEMENT TRIBUTARY WEIGHT  
S<sub>g</sub> (SITE GROUND MOTION - %g - FROM ASCE7 SEISMIC MAP)  
F<sub>a</sub> (from ASCE7 Table 11.4-1)  
S<sub>DS</sub> (= 2/3 \* S<sub>g</sub> \* F<sub>a</sub>)  
R (from ASCE7 Table 12.2-1)

65244  
65244  
12.0%  
1.6  
0.128  
6.5

SEISMIC SHEAR		
LOCATION	From ASCE7 (Eq. 12.8-1):	V (= 1.2 * S <sub>DS</sub> * W / R) (lbs.)
1ST FLOOR		1542
BASEMENT		1542

Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Shear (#/LF)	Code Reference
Exterior ( <a href="#">Option #1</a> )	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 6" O.C. Edges, 5" O.C. Field For 24" stud spacing, 12" O.C. Field For 18" stud spacing	155	per IBC, Table 2306.3(1)
Exterior ( <a href="#">Option #2</a> )	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 4" O.C. Edges, 5" O.C. Field For 24" stud spacing, 12" O.C. Field For 18" stud spacing	230	per IBC, Table 2306.3(1)
Exterior ( <a href="#">Option #3</a> )	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 5" O.C. Edges, 5" O.C. Field For 24" stud spacing, 12" O.C. Field For 18" stud spacing	310	per IBC, Table 2306.3(1)
Exterior ( <a href="#">Option #4</a> )	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 ( <a href="#">Option #5</a> )	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 ( <a href="#">Option #6</a> )	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 manufacture specifications - see detail on sheet S3)	325	

EXTERIOR SHEATHING OPTION FOR FIRST FLOOR	5
EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS	4

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

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
1ST FLOOR	70	26600	28	10640	70	37240	28
BASEMENT	0	0	25	7000	0	0	25

1ST FLOOR FRONT-TO-BACK	0	0
1ST FLOOR SIDE-TO-SIDE	0	0
BASEMENT FRONT-TO-BACK	0	0
BASEMENT SIDE-TO-SIDE	0	0

ADDITIONAL RESISTANCE REQUIRED	
SEISMIC	WIND
0	0
0	0
0	0
0	0

Anchor Bolt Spacing (in.)	
diameter (in.)	0.5
Shear value (per NDS)	944
Spacing F-B (inches)	171.2
spacing S-S (inches)	167.9

16d Nail Spacing req'd at bottom plate (in.)	
1st Floor F-B	26
1st Floor S-S	25

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
BASEMENT FRONT-TO-BACK	0					0	YES
BASEMENT SIDE-TO-SIDE	0					0	YES

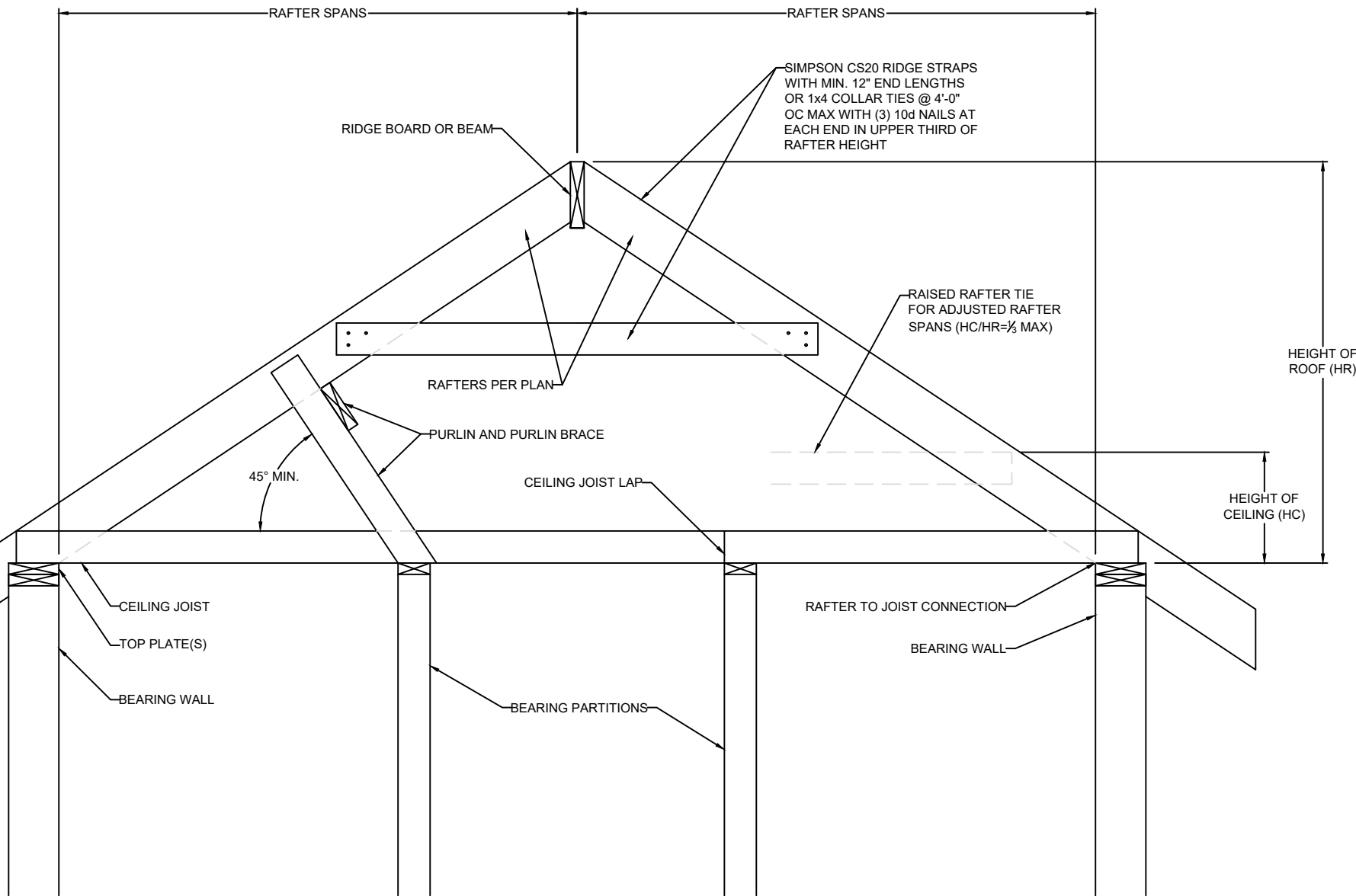
\*\*NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE),  
2) SEE SHEET S1 FOR INTERIOR STEEL X-BRACE INSTALLATION, 3) INTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SAME STAPLE/NAILING PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE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

WIND UPLIFT ANALYSIS							
ROOF PITCH (MAX)	X/12	DEGREES					
	8	33.7	PITCH OF 6 OR LESS: EOH -13.3, E -7.2, G -5.2				
	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)			
OVERHANG	1	-1.08	225.68	-1.08			
	TOTAL AREA (FT²)	ZONE E AREA (FT²)	ZONE G AREA (FT²)	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @ PERIMETER (LBS)
MAIN ROOF**	3128.9839	-451.327824	3578.311724	-1.08	-0.36	-801	-3.6
*ALONG PERIMETER	TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)			-4.7	UPLIFT OK		
**INSIDE EXTERIOR WALLS	RESISTANCE DUE TO DEAD WEIGHT & (3) 1d TOENAILS			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**



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

Combustion Air Calculation  
Per 2012 IRC Section G2407.5

Appliance #1	Furnace	100000	BTU/h
Appliance #2			BTU/h
Appliance #3	Water Heater	50000	BTU/h

Total BTU/hr 150000 BTU/h

Area of Combined Space (floor where appliances are located)	744	ft²
Ceiling Height in Usable Space	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?	701

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 )

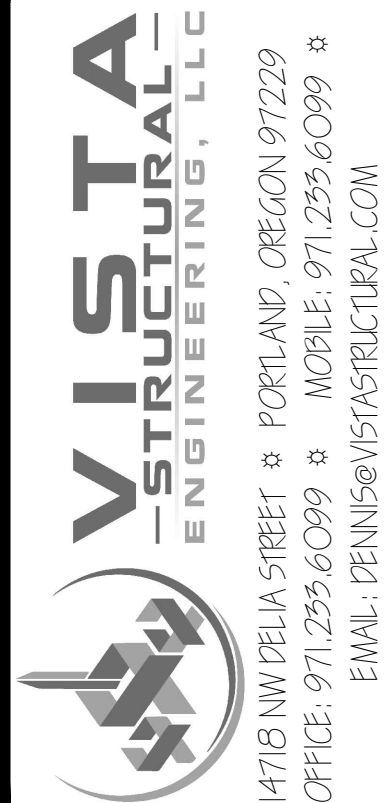
Required air space in combined areas: 7500 ft³

Required combined area: 882 ft²

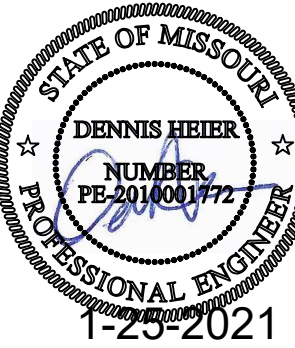
Area of Combined Space > Required combined area? OK

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.



CLIENT: WALKER CUSTOM HOMES  
JOB TITLE: WWS020 SPEC - THE WOODVIEW 2  
LOT 20, WHISPERING WOODS  
LOCATION: LEE'S SUMMIT, MISSOURI

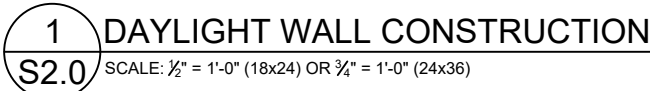


NO.	DATE	REVISION	BY
DRAWING TITLE			
STRUCTURAL CALCULATIONS			
ENGINEER: DMH		CHECKED BY: DMH	
JOB NO. 3052		DRAWN BY: DMH	
DATE: 1-25-21			
SHEET NUMBER			
S1.1			

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

01/28/2021

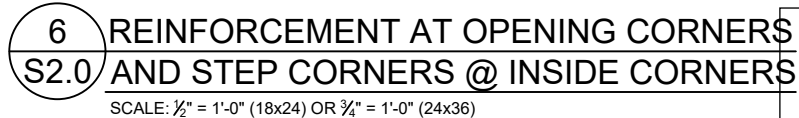
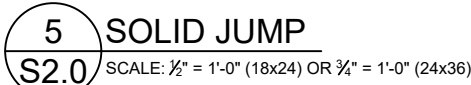
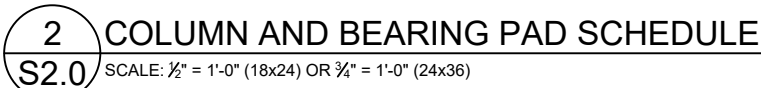




This technical cross-section diagram illustrates the foundation and drainage details for a basement wall. The wall is shown with a vertical reinforcement bar (labeled "VERTICAL AND HORIZONTAL REINFORCEMENT PER 4/S2.0") and a horizontal reinforcement bar (labeled "1'-6\" (TYP.)"). The wall is finished with "SIDING" and "GRADE" is indicated. A "2\" CLEARANCE FROM BASEMENT FACE OF WALL" is shown. A "PERFORATED DRAIN PIPE" is embedded in the foundation, surrounded by "FILTER FABRIC". A "SEAL/BOND BREAK" is located at the base of the wall. The foundation is supported by a "CARRIER SLAB" and a "6\" WASHED CRUSHED STONE BASE IN GRAVEL".

## 3 CONCRETE WALL SECTION

S2.0 SCALE:  $\frac{1}{2}" = 1'-0"$  (18x24) OR  $\frac{3}{4}" = 1'-0"$  (24x36)



01/28/2021

VERTICAL REINFORCEMENT SPACING						
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) HORIZONTAL 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 6¾" 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 1½"
  - B) NOT EXPOSED TO WEATHER (INTERIOR SIDE OF WALLS) - ¾"
  - C) CONCRETE EXPOSED TO WEATHER (TOP CLEARANCE IN GARAGE AND DRIVEWAY SLABS) - 1½"
- 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 3¾". 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 S2.0 FOUNDATION WALL REINFORCEMENT TABLE NO SCALE

ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF WALL

GRADE

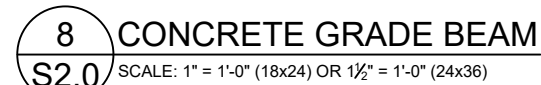
2'-0"

2'-4"

TURN 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



CLIENT: WALKER CUSTOM HOMES

JOB TITLE: WWS020 SPEC - THE WOODVIEW 2  
LOT 20, WHISPERING WOODS

LOCATION: LEE'S SUMMIT, MISSOURI

[illegible]

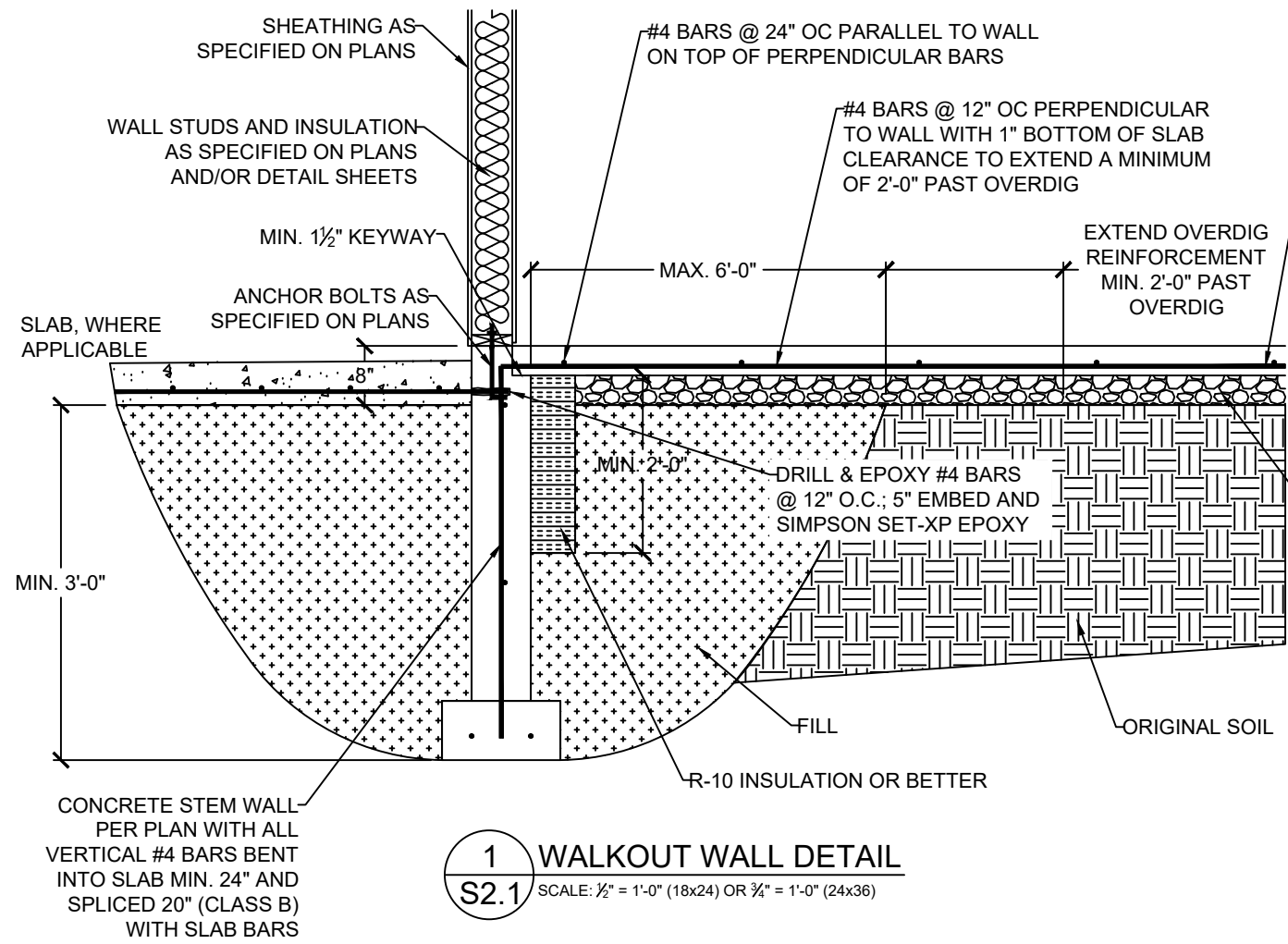
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## FOUNDATION DETAILS

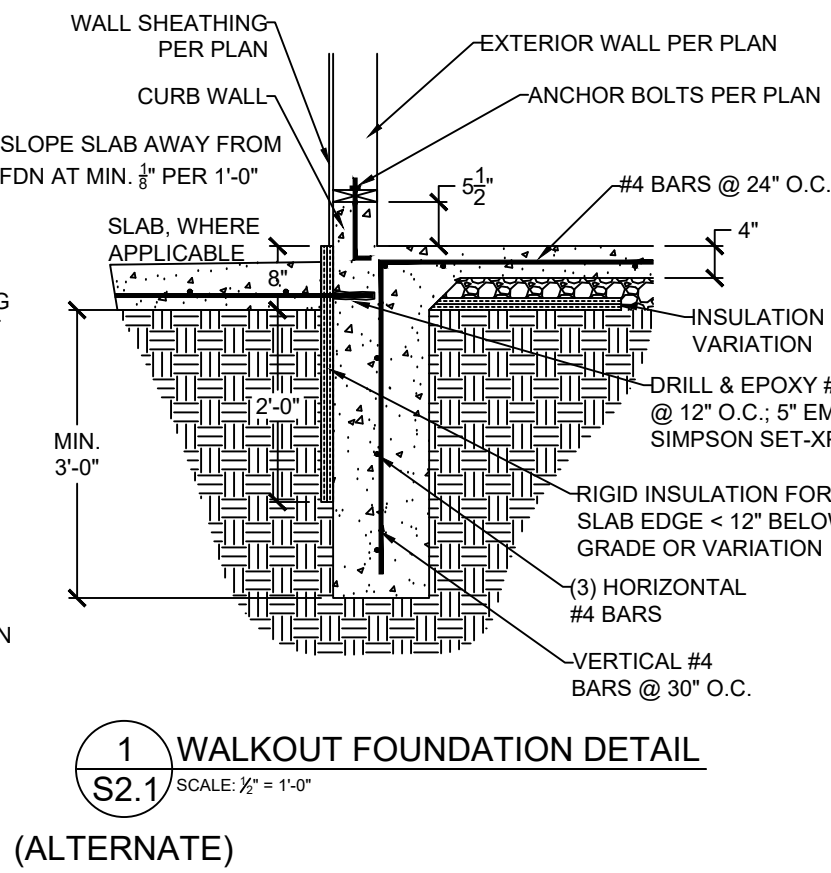
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JOB NO. 3052	DRAWN BY: DMH
DATE: 1-25-21	

SHEET NUMBER

# S2.0

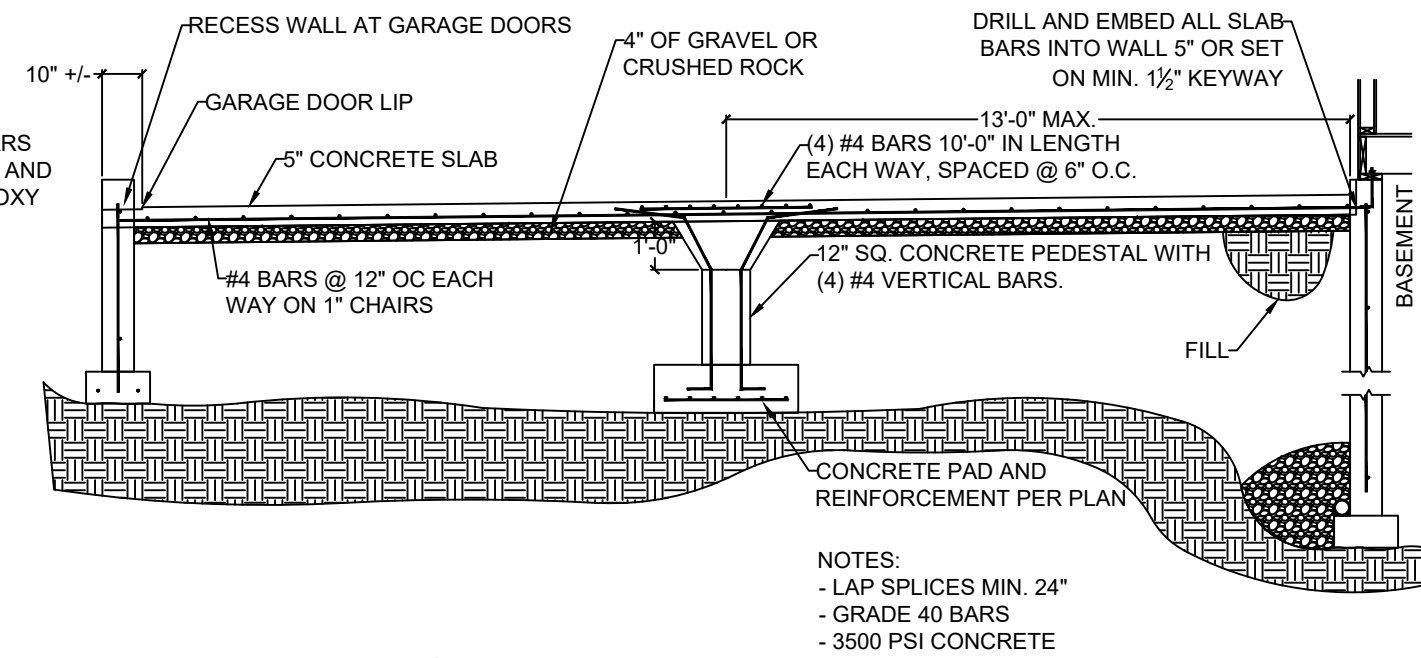


1 WALKOUT WALL DETAIL  
S2.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



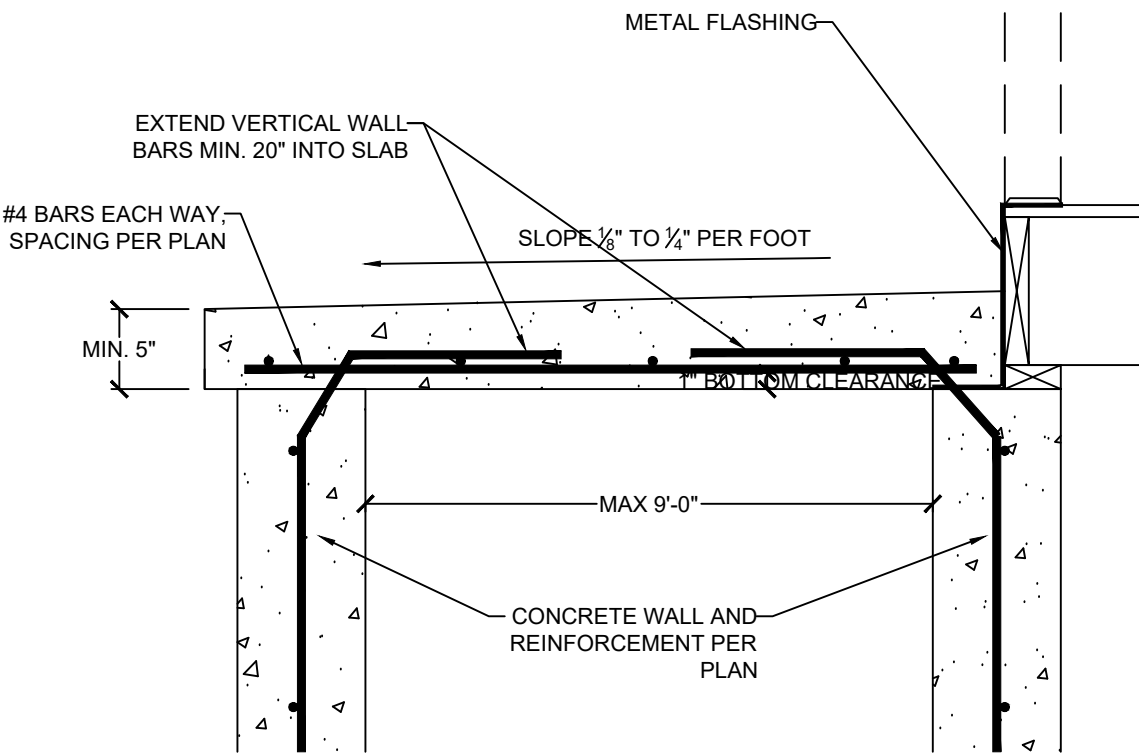
1 WALKOUT FOUNDATION DETAIL  
S2.1 SCALE: 1/2" = 1'-0"

(ALTERNATE)

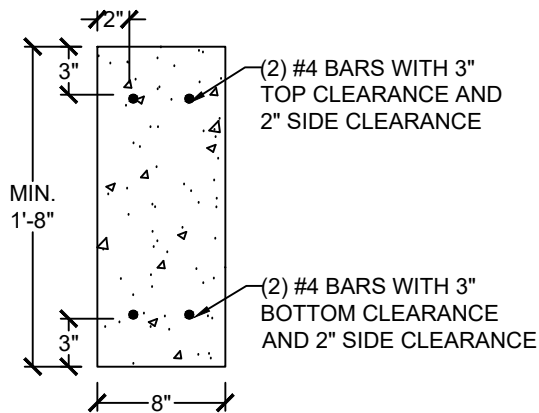


2 GARAGE SLAB ON FILL  
S2.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

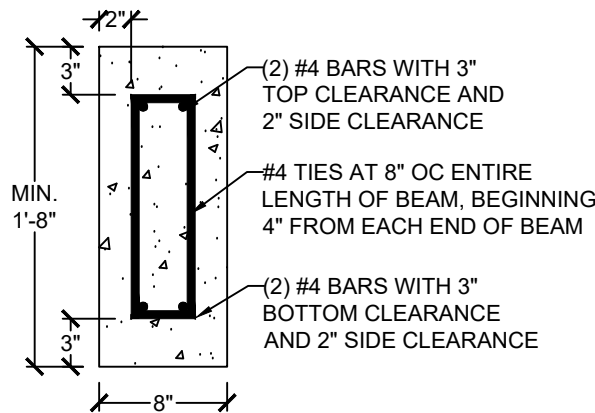
- NOTES:
- LAP SPLICES MIN. 24"
  - GRADE 40 BARS
  - 3500 PSI CONCRETE



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

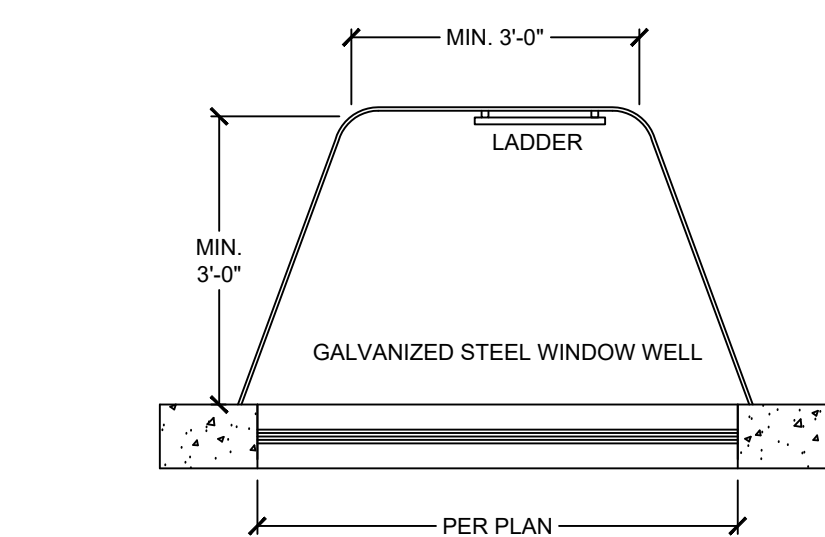
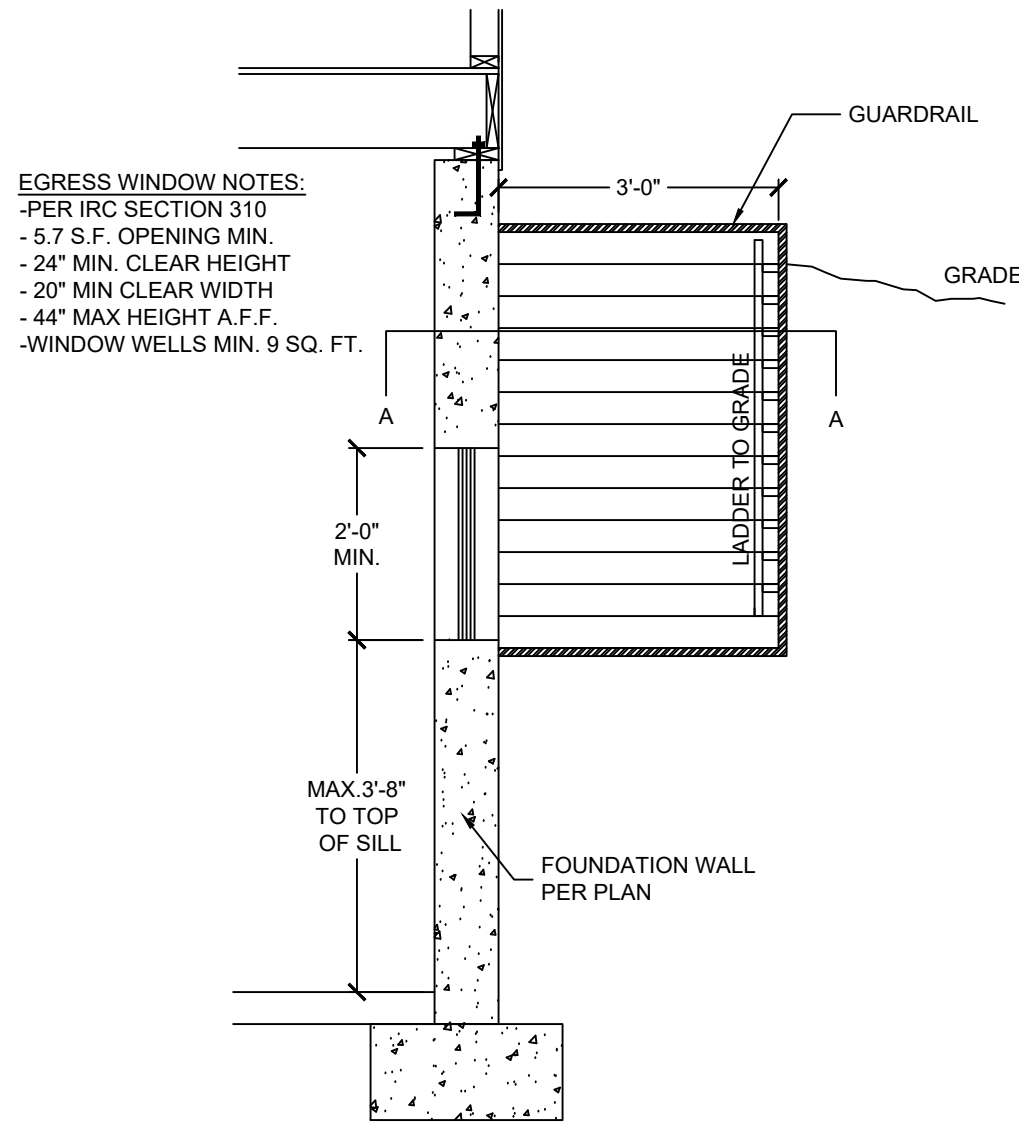


- NOTES:
- MAX. 3'-6" IN LENGTH
  - BARS SHALL EXTEND MIN. 2'-0" PAST OPENING ON EACH SIDE



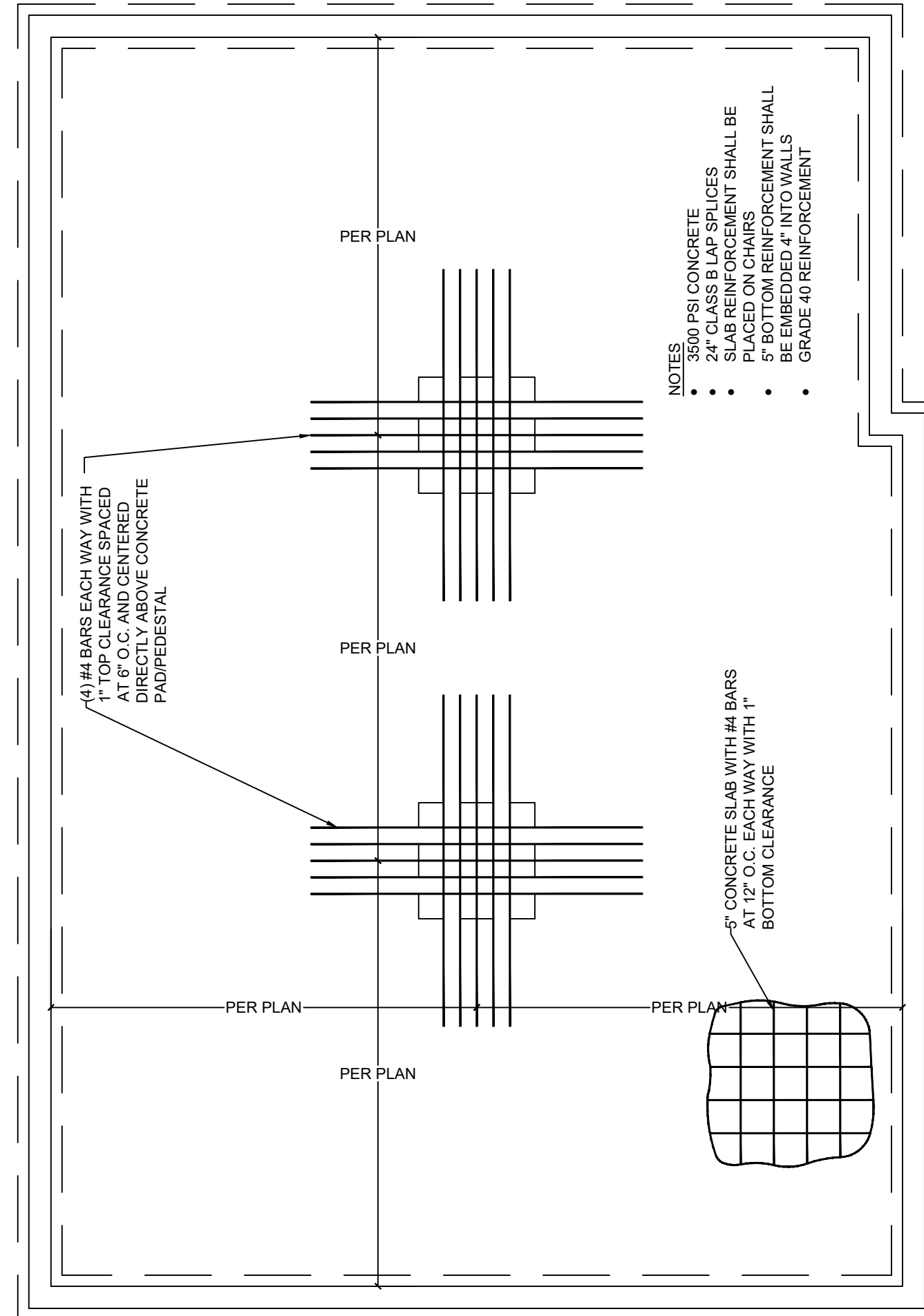
- NOTES:
- MAX. 6'-0" IN LENGTH
  - BARS SHALL EXTEND MIN. 2'-0" PAST OPENING ON EACH SIDE

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



SECTION A-A

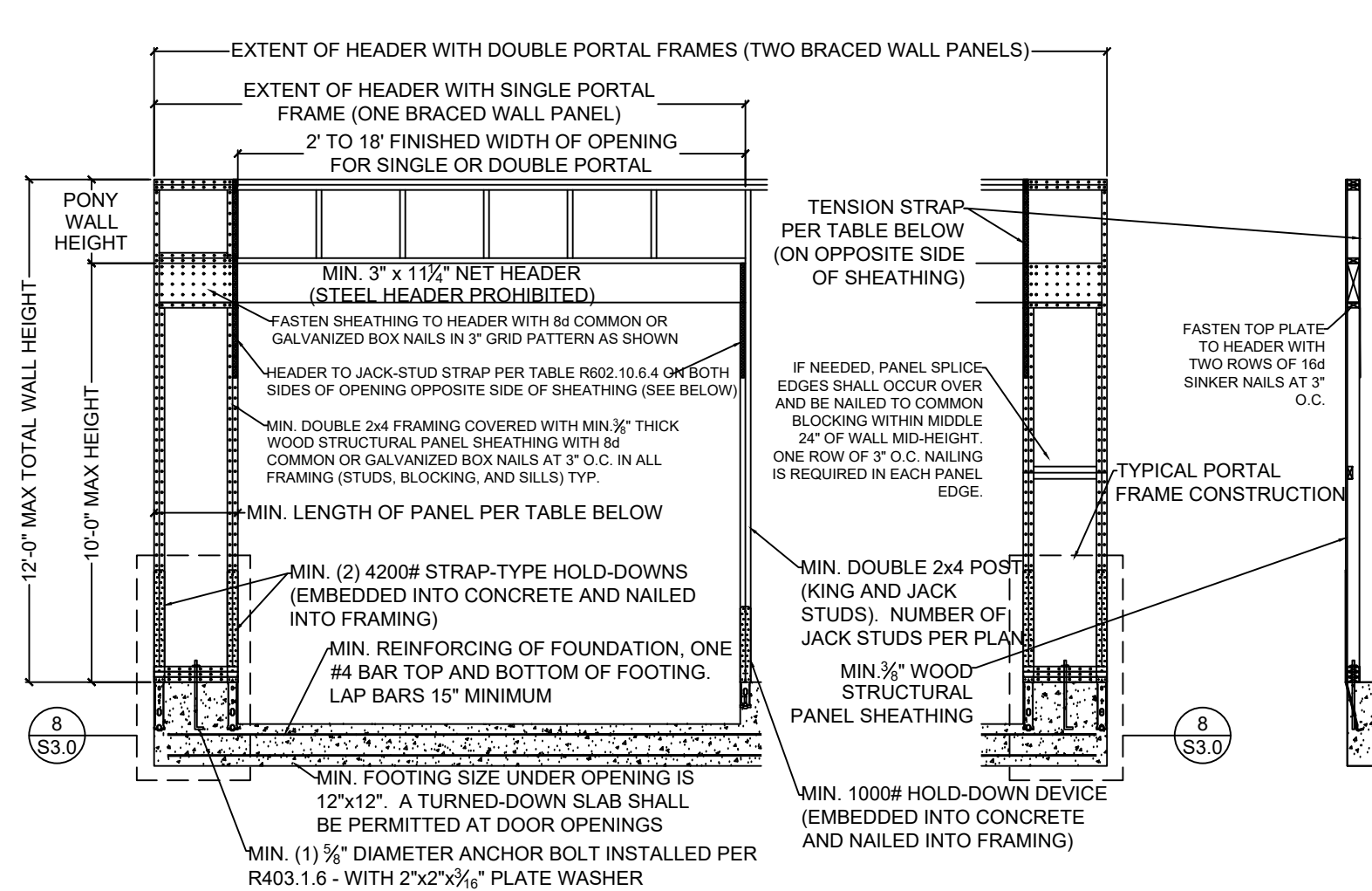
5 EGRESS WINDOW WELL ELEVATION AND PLAN DETAILS  
S2.1 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



- NOTES:
- 3500 PSI CONCRETE
  - 24" CLASS B LAP SPLICES
  - SLAB REINFORCEMENT SHALL BE PLACED ON CHAIRS
  - 5" BOTTOM REINFORCEMENT SHALL BE EMBEDDED 4" INTO WALLS
  - GRADE 40 REINFORCEMENT

5" CONCRETE SLAB WITH #4 BARS AT 12" O.C. EACH WAY WITH 1" BOTTOM CLEARANCE

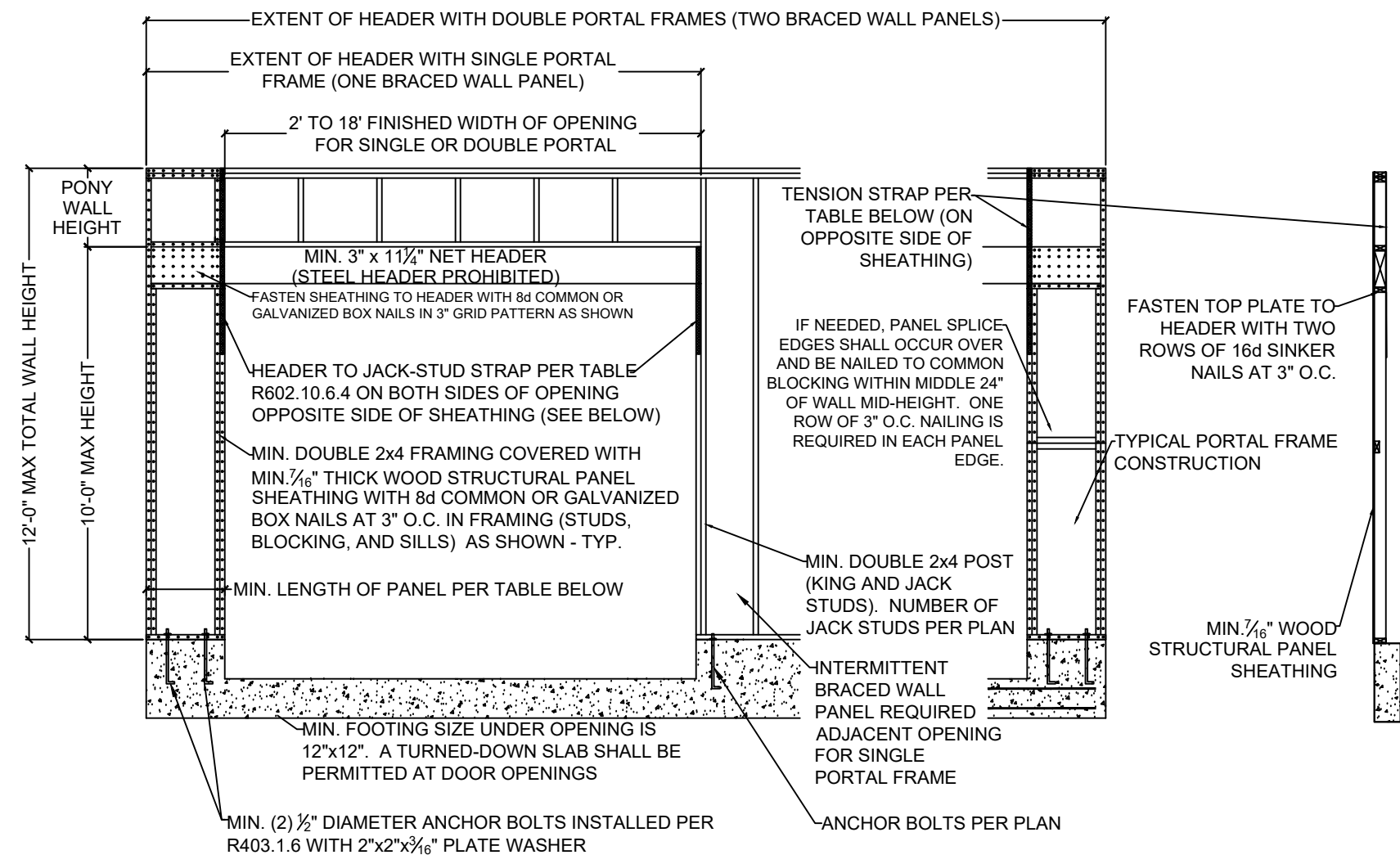




**1 METHOD PFH (PORTAL FRAME WITH HOLD-DOWNS) - PER FIGURE IRC R602.10.6.2**

SCALE:  $\frac{1}{2}" = 1'-0"$  (18x24) OR  $\frac{3}{8}" = 1'-0"$  (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



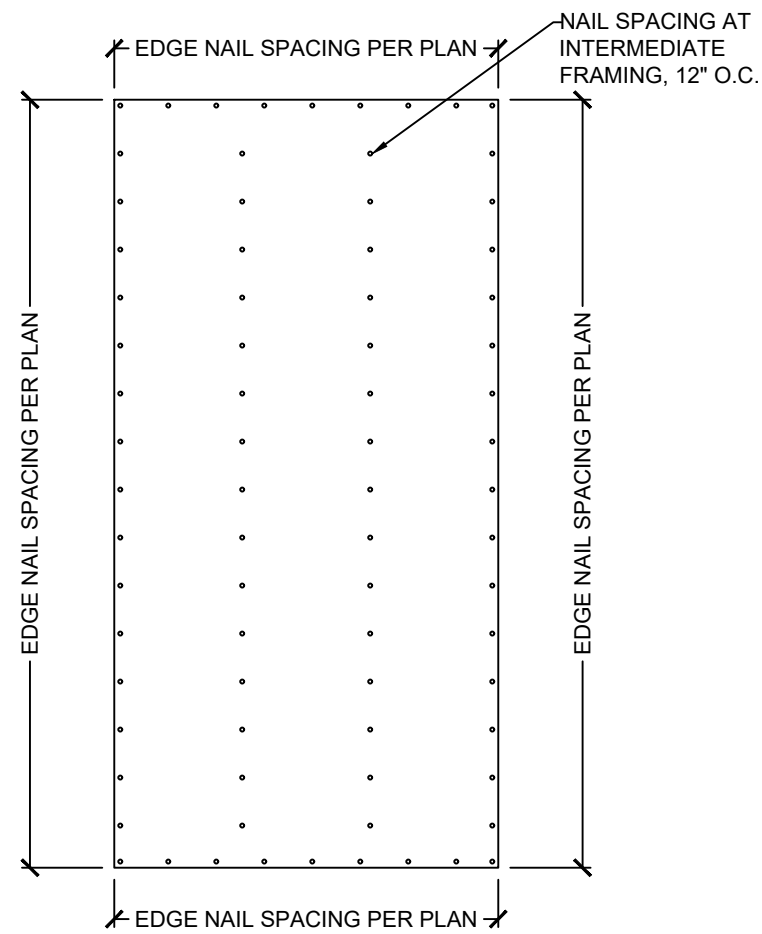
**2 METHOD PFG (PORTAL FRAME AT GARAGE DOOR) - PER FIGURE IRC R602.10.6.3**

SCALE:  $\frac{1}{2}" = 1'-0"$  (18x24) OR  $\frac{3}{8}" = 1'-0"$  (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 <sup>a</sup>	36 <sup>a</sup>

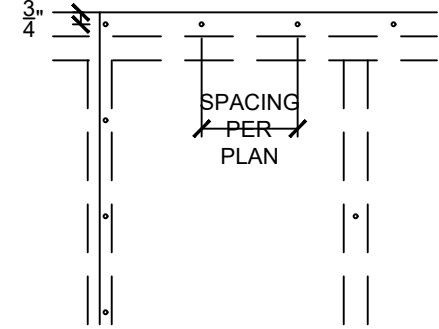
a. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall

MAX GARAGE OPENING (FT.)	PONY WALL 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



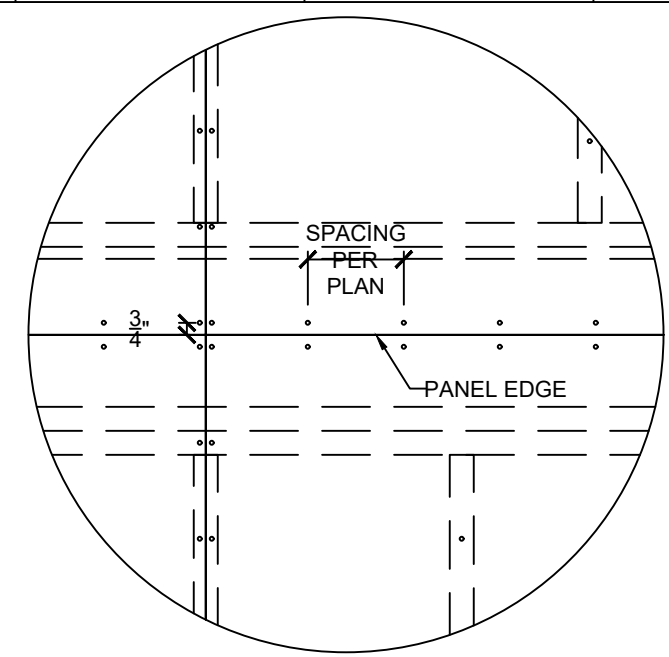
**3 EXTERIOR WALL SHEATHING PANEL ATTACHMENT**

SCALE:  $\frac{1}{2}" = 1'-0"$  (18x24) OR  $\frac{3}{8}" = 1'-0"$  (24x36)



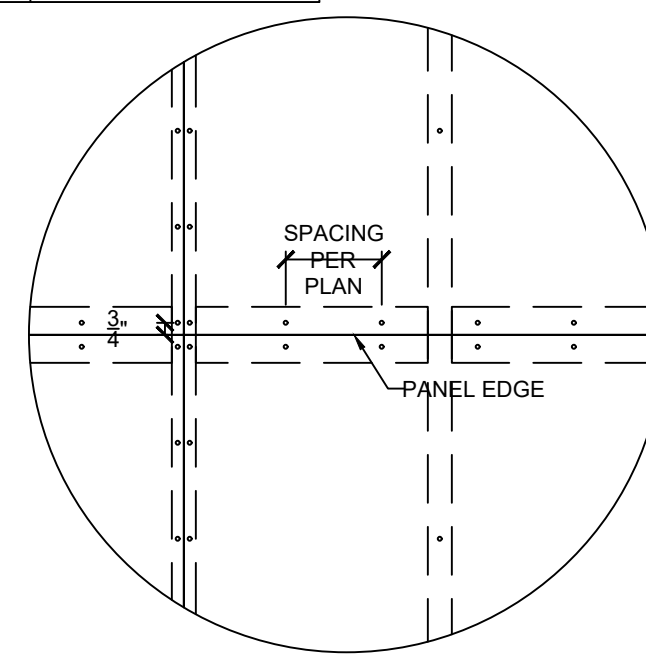
**4 SHEATHING EDGE AT TOP AND BOTTOM PLATES**

SCALE:  $1" = 1'-0"$  (18x24) OR  $\frac{1}{2}" = 1'-0"$  (24x36)



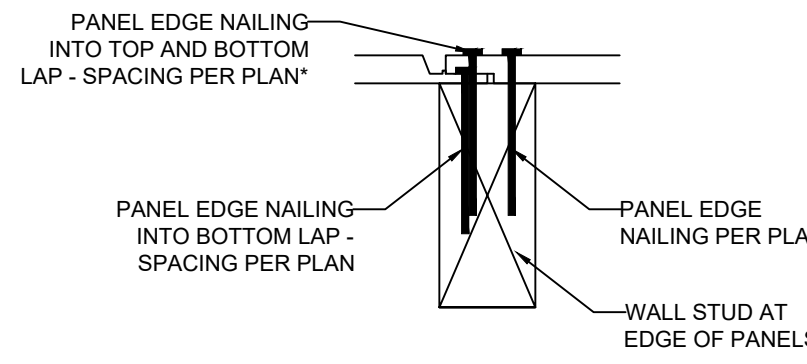
**5 SHEATHING EDGE AT HORIZONTAL FRAMING MEMBER**

SCALE:  $1" = 1'-0"$  (18x24) OR  $\frac{1}{2}" = 1'-0"$  (24x36)



**6 SHEATHING EDGE AT PANEL SPLICE ACROSS STUDS**

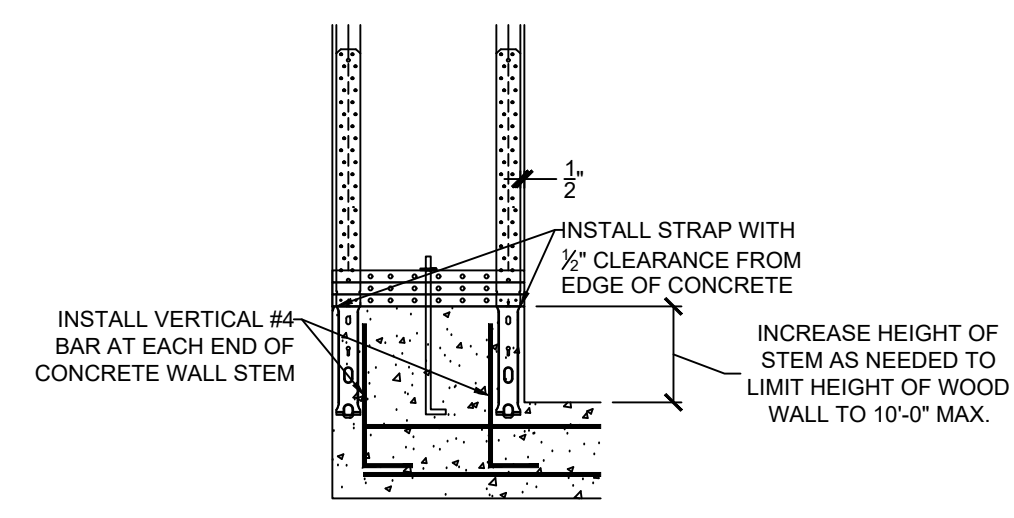
SCALE:  $1" = 1'-0"$  (18x24) OR  $\frac{1}{2}" = 1'-0"$  (24x36)



\*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

**7 FASTENING INSTRUCTIONS FOR SHIPLAP PANEL SHEATHING**

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



**8 GARAGE HOLD-DOWN STRAP INSTALLATION**

SCALE:  $\frac{1}{2}" = 1'-0"$  (18x24) OR  $\frac{3}{8}" = 1'-0"$  (24x36)

**VISTA**  
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ENGINEERING, LLC

14718 NW DELIA STREET \* PORTLAND, OREGON 97229  
OFFICE: 971.255.6099 \* MOBILE: 971.255.6099 \*  
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CLIENT: WALKER CUSTOM HOMES

JOB TITLE: WWS020 SPEC - THE WOODVIEW 2  
LOT 20, WHISPERING WOODS

LOCATION: LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI

DENNIS HEIER  
NUMBER  
PE-2010001772  
PROFESSIONAL ENGINEER  
1-25-2021

NO. DATE REVISION BY

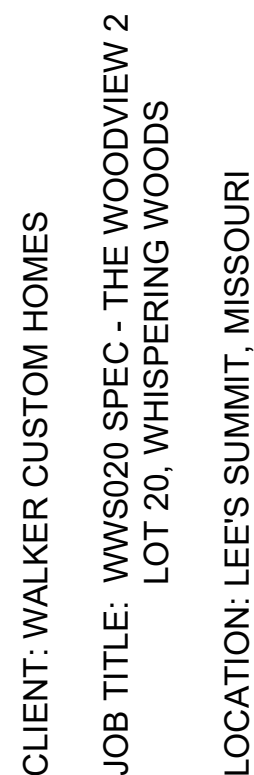
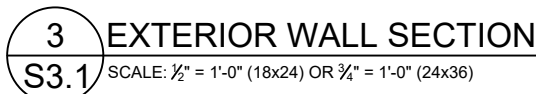
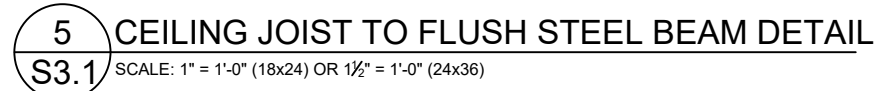
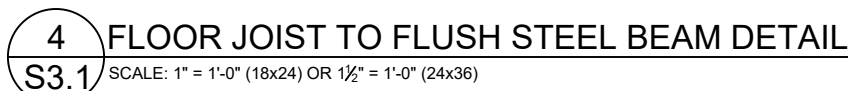
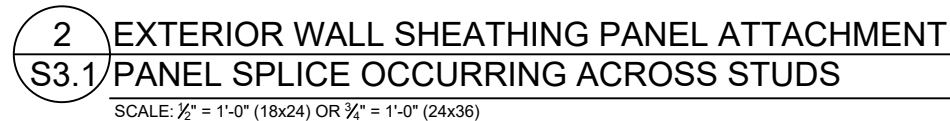
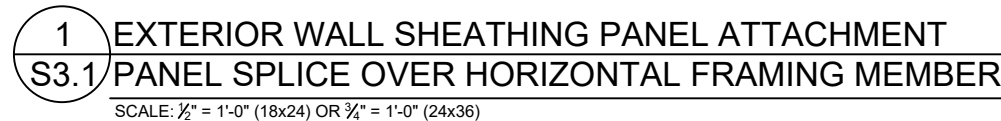
DRAWING TITLE

**FRAMING DETAILS**

ENGINEER: DMH CHECKED BY: DMH  
JOB NO. 3052 DRAWN BY: DMH  
DATE: 1-25-21  
SHEET NUMBER

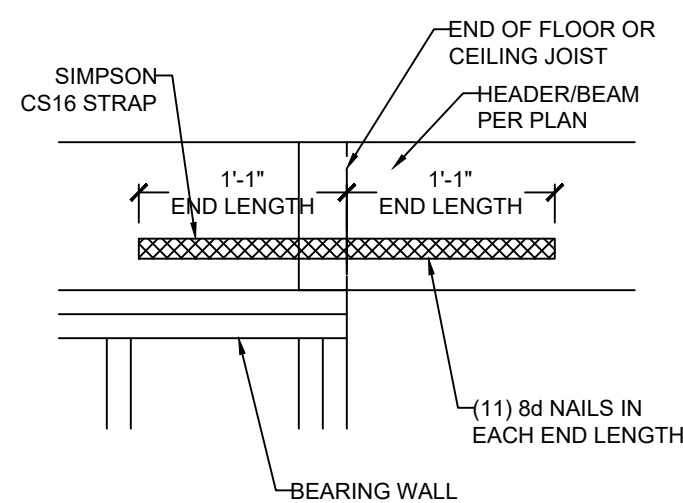
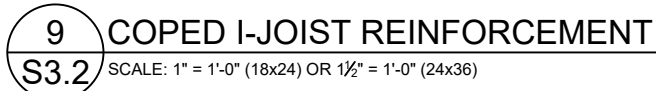
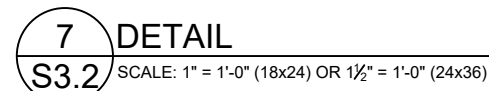
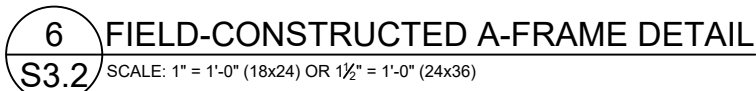
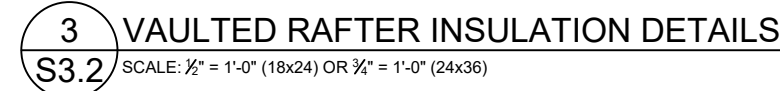
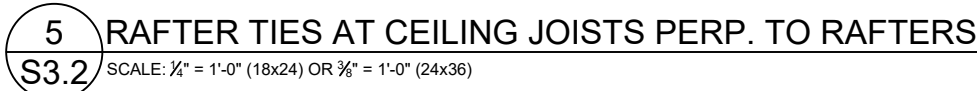
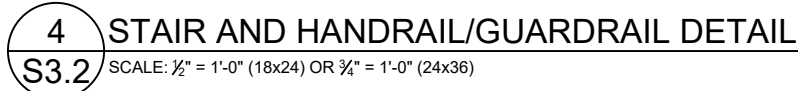
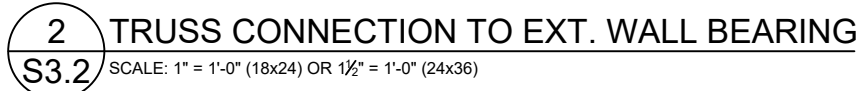
**S3.0**





## S3.1





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"



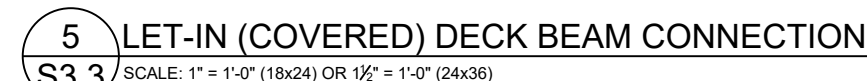




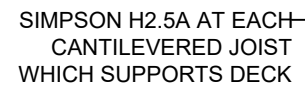
DECK JOIST SPAN	½" Ø GALV. LAG OR ¾" Ø LEDGER-LOK SPACING
10'-0" OR LESS	16" OC
10'-0" - 13'-11"	12" OC OR @ 16" OC DOUBLED EVERY OTHER
14'-0" - 18'-0"	8" OC OR @ 16" OC DOUBLED

1 LEDGER ATTACHMENT  
S3 3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

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



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



**2** CANTILEVER WITH DECK ATTACHMENT  
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

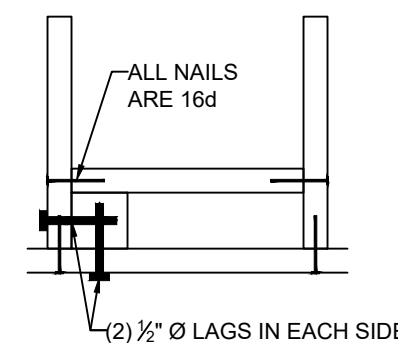
**S3 3** SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



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



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

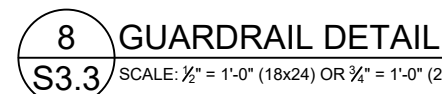


## 4 REINF. POST CONNECTIONS

SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



SCAFF: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



3.3 SCALE:  $\frac{1}{2}" = 1'-0"$  (18x24) OR  $\frac{3}{4}" = 1'-0"$  (24x36)

**RELEASE FOR  
CONSTRUCTION**  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

01/28/2021



SCALE:  $\frac{1}{8}" = 1'-0"$  (18x24) OR  $\frac{3}{16}" = 1'-0"$  (24x36)



**VISTA**  
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CLIENT: WALKER CUSTOM HOMES

JOB TITLE: WWS020 SPEC - THE WOODVIEW 2  
LOT 20, WHISPERING WOODS

LOCATION: LEE'S SUMMIT, MISSOURI

[illegible]

DRAWING TITLE

## FRAMING DETAILS

ENGINEER: DMH CHECKED BY DMH

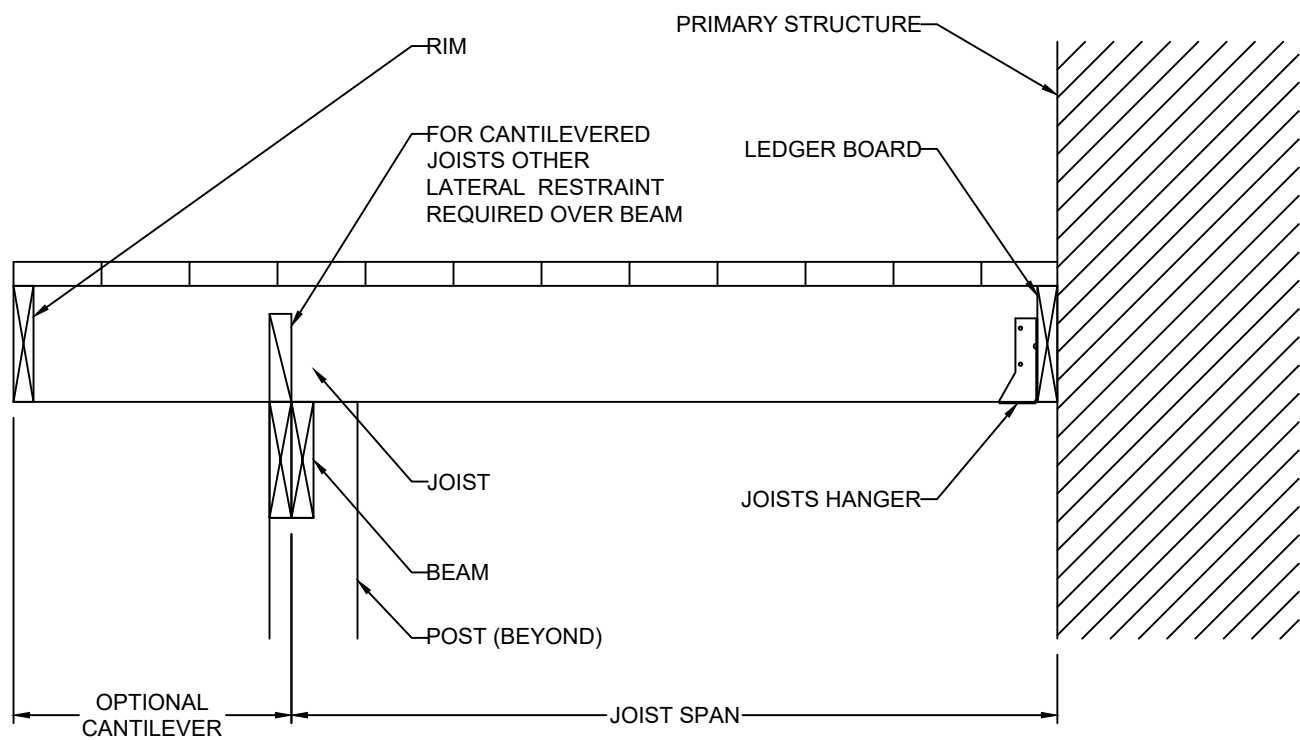
JOB NO.	3052	DRAWN BY:	DMH
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DATE: 1-25-21	
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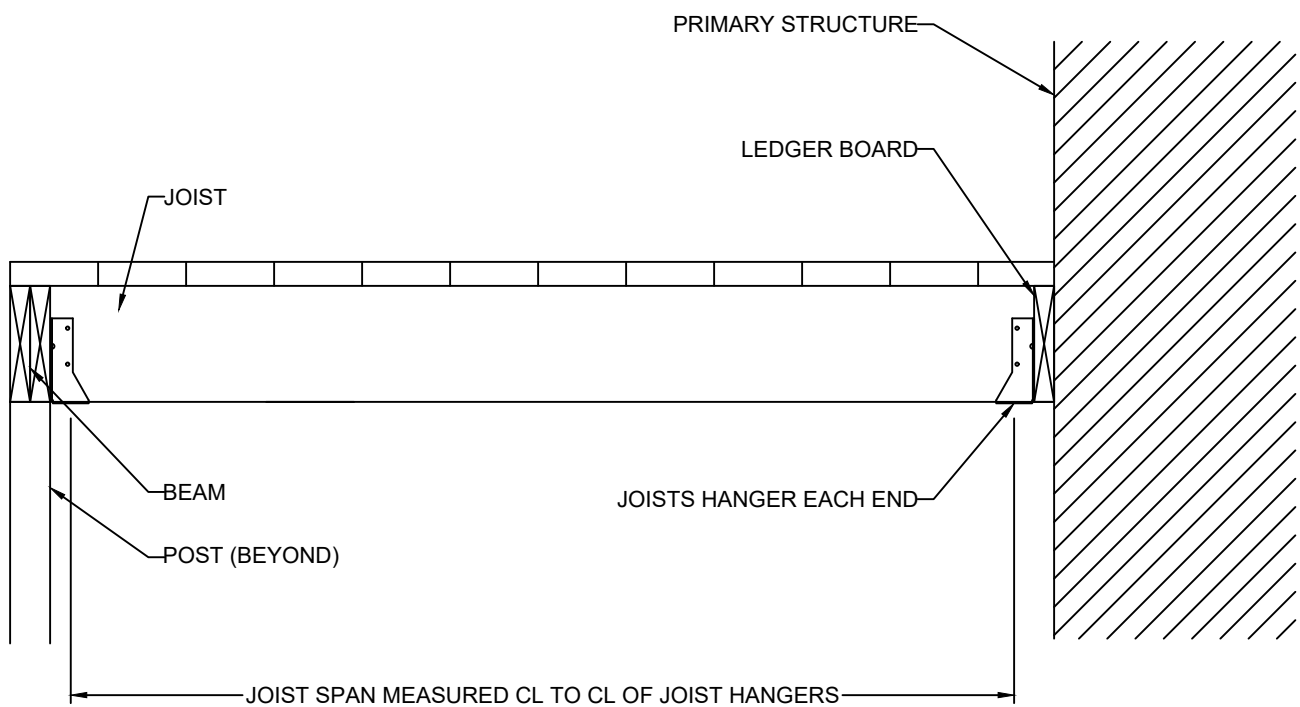
SHEET NUMBER

### S3.3a

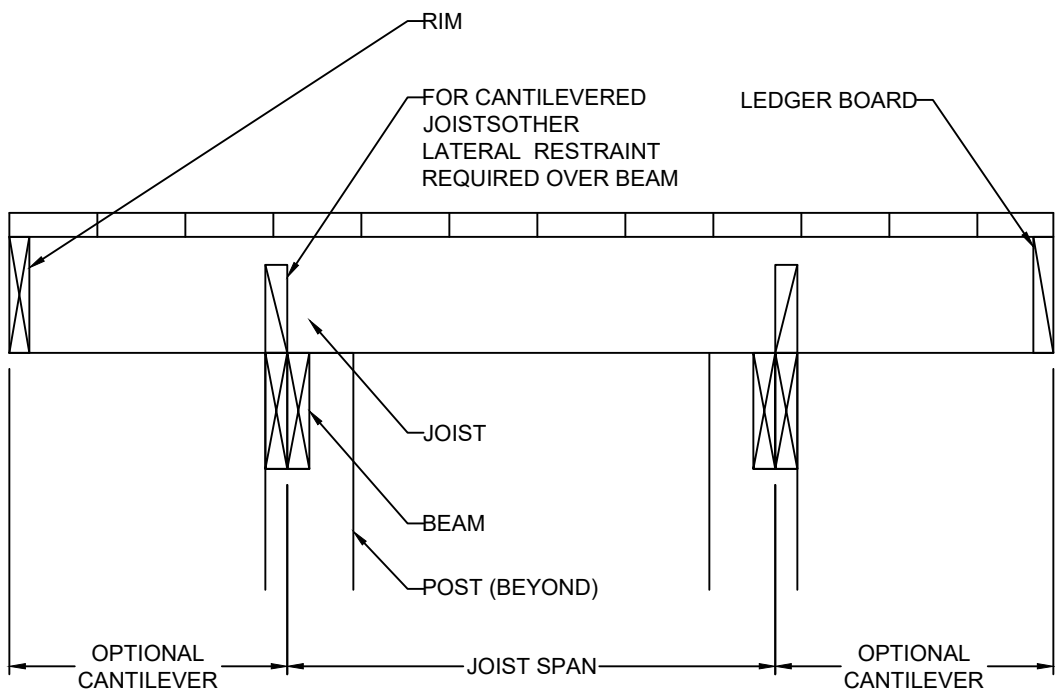




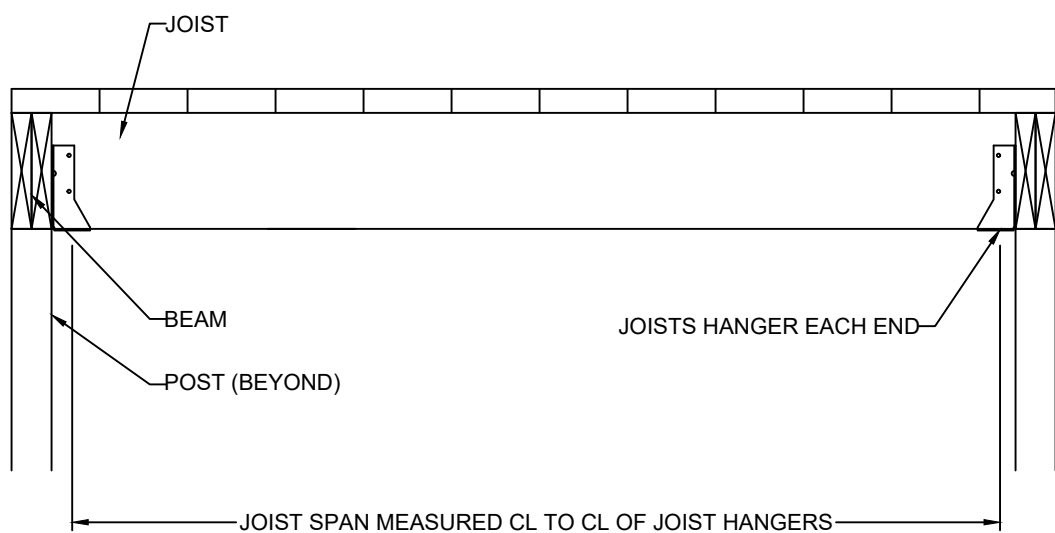
CANTILEVERED JOISTS WITH DROPPED BEAM



JOISTS WITH FLUSH BEAM

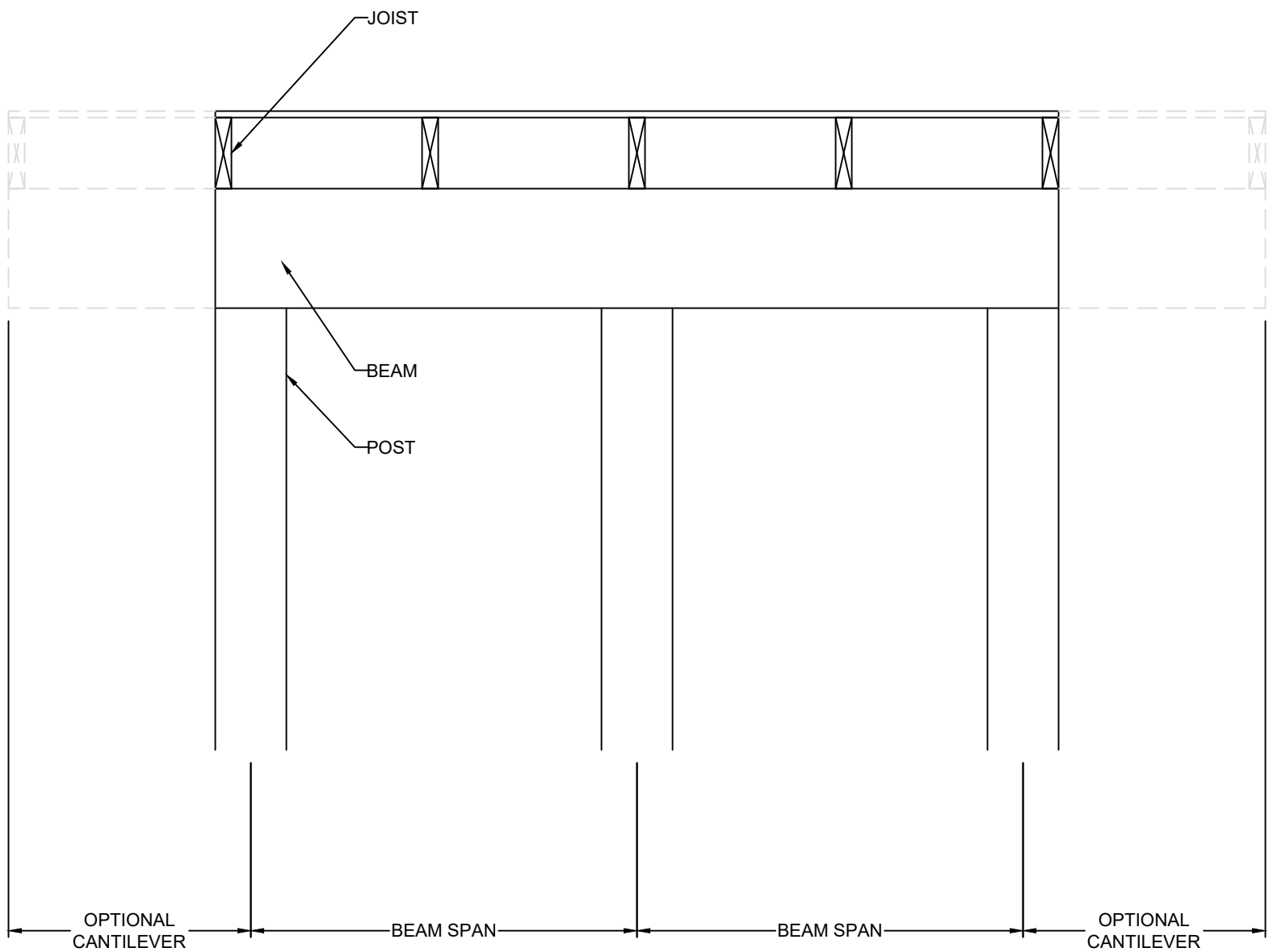


JOISTS ON FREE-STANDING DECK WITH DROPPED BEAM

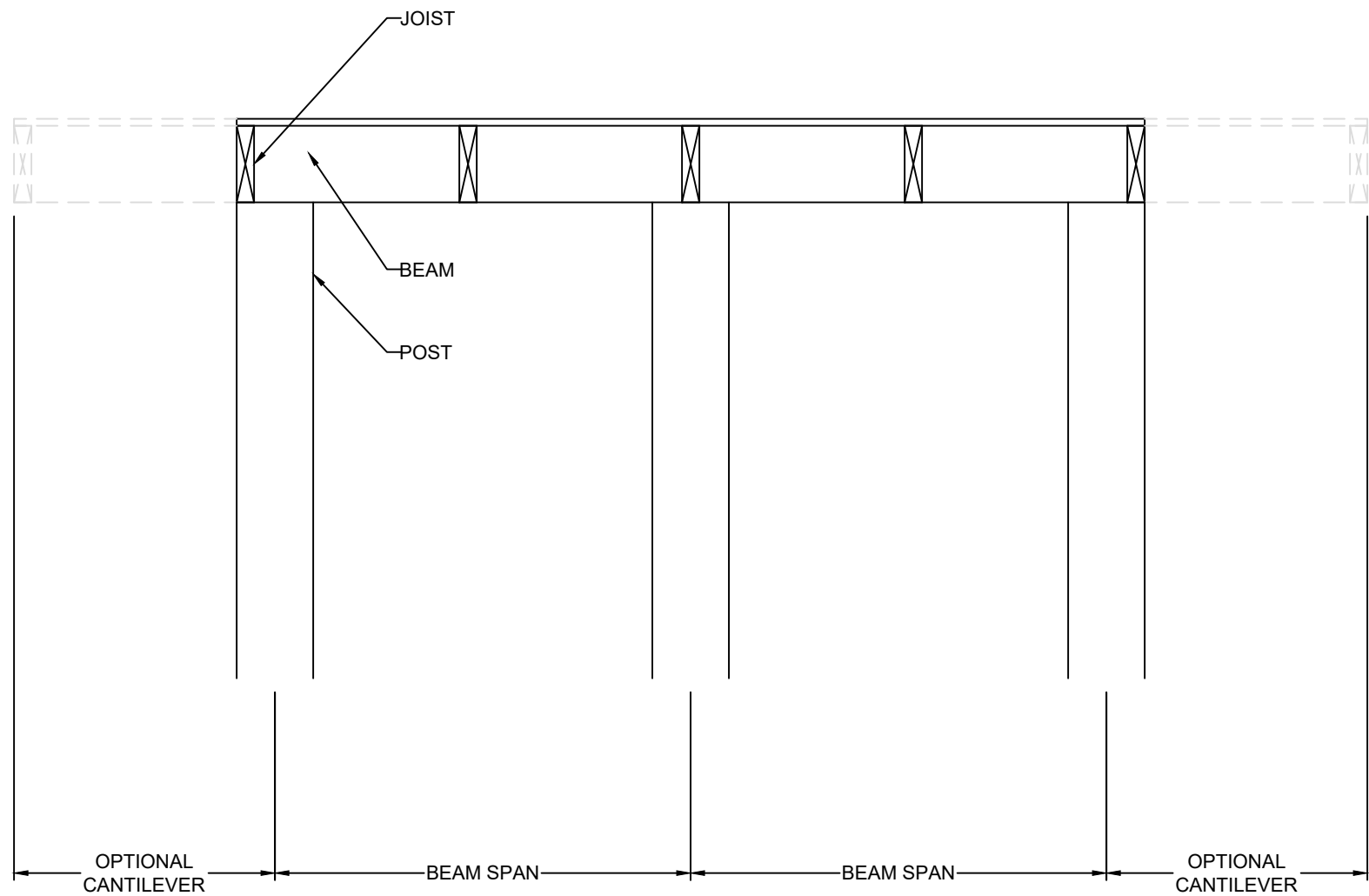


JOISTS WITH FLUSH BEAM

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



DROPPED BEAM



FLUSH BEAM

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

01/28/2021

**VISTA**  
— STRUCTURAL —  
ENGINEERING, LLC

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OFFICE: 971.255.6099 \* MOBILE: 971.255.6099 \*  
EMAIL: DENNIS@VISTASTRUCTURAL.COM

CLIENT: WALKER CUSTOM HOMES

JOB TITLE: WWS020 SPEC - THE WOODVIEW 2  
LOT 20, WHISPERING WOODS

LOCATION: LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI  
DENNIS HEIER  
NUMBER  
PE-2010001772  
PROFESSIONAL ENGINEER  
1-25-2021

NO.	DATE	REVISION	BY

DRAWING TITLE

**FRAMING  
DETAILS**

ENGINEER: DMH	CHECKED BY: DMH
JOB NO. 3052	DRAWN BY: DMH
DATE: 1-25-21	
SHEET NUMBER	

**S3.3b**