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begotten Son, dathat whosoever Believeth in him Reshould not perish, ir but have

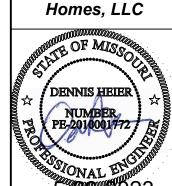
VIEWPOINT RESIDENTIAL DESIGN LLC

Drawing Name: **The** 

PHOENIX 3
Site Description:
Lot 94, Summit

View Farms 4th Plat
Property Address:
3108 SW Summit
View Tr., Lee's
Summit, Missouri
General Contractor:

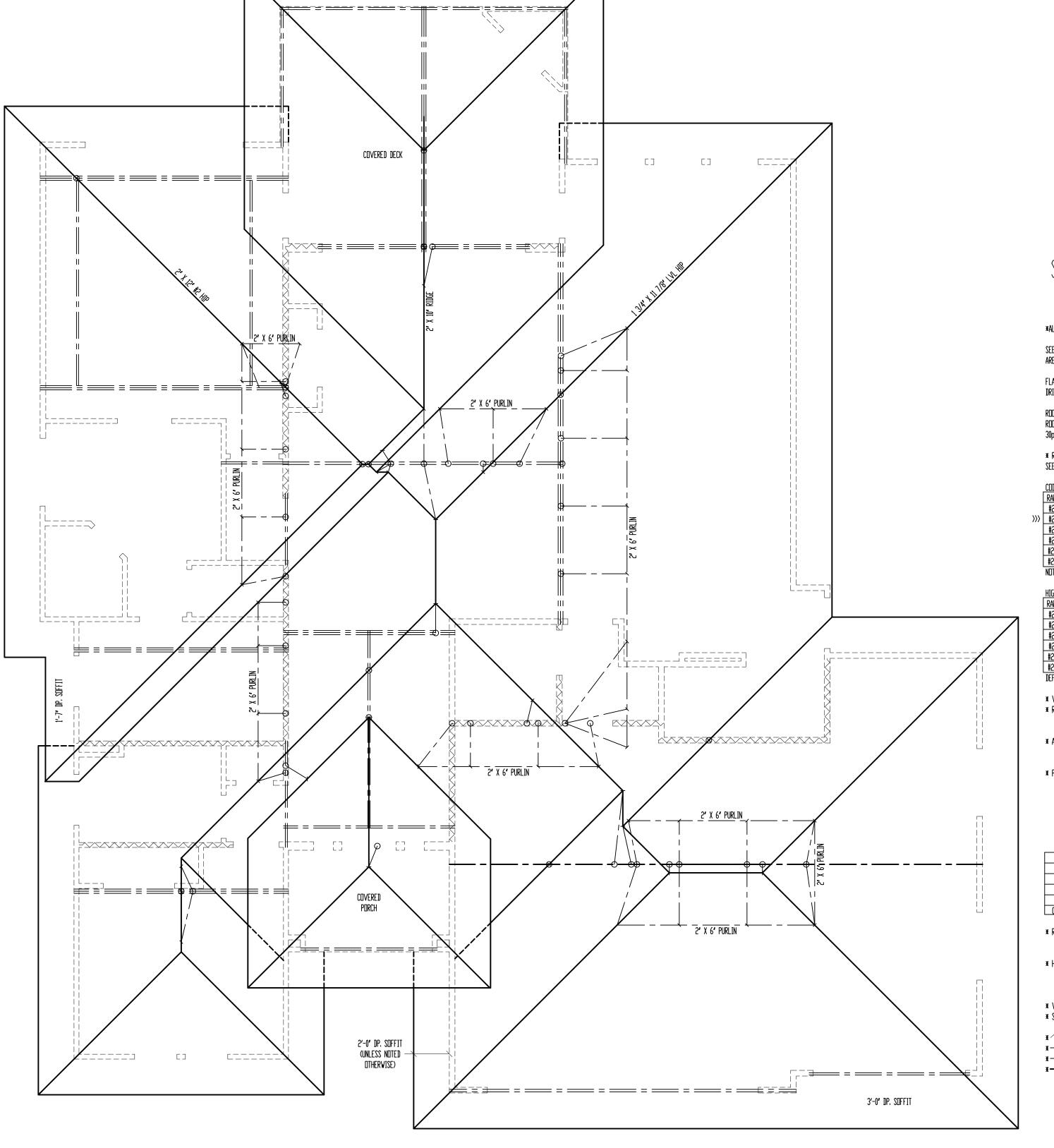
Walker Custom



Date: <u>5 - 8 - AD 2023</u> Rev. 1: Rev. 2: Rev. 3:

Sheet Title: **ELEVATIONS** 





ROOF

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

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

SEE DETAIL 7/S3.2 FOR ALTERNATE RAFTER BEARING DETAIL WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE WALL DOUBLE TOP PLATE.

DRIP EDGE, VALLEYS AND FLASHINGS TO BE METAL CLAD.

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

RAFTERS SPACING MAX HORIZONTAL CLEARSPAN >>> #2-2x6 @16" D.C. #2-2x8 **@24**\* D.C. 14'-8**'** #2-2x8 **@16"** D.C. 

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

עזר.עכס סכ	RFORMANCE (RI	CCUMMENDED)
RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24″ □.C.	8'-6 <b>'</b>
#2-2x6	€16 <b>′</b> □.C.	9'-9 <b>'</b>
#2-2x8	@24′ □.C.	11'-3 <b>'</b>
#2-2x8	<b>0</b> 16 <b>′</b> □.C.	12'-9 <b>'</b>
#2-2x10	@24″ □.C.	14'-3 <b>'</b>
#2-2v10	916" TC	16'-3 <b>'</b>

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 DVER 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' D.C.

- PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL

'T' CONFIGURATION AND PER THE FOLLOWING CHART:

- ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0'

PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8′-0 <b>″</b>
(1) 2x4 & (1) 2x6	12'-0 <b>'</b>
(1) 2x6 & (1) 2x8	20'-0 <b>'</b>
(2) 2x6 & (1) 2x8	30'-0 <b>'</b>
CONSULT ARCH/FNGR. >	30'-0 <b>"</b>

\* 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 ). \* OPENDITES BEARING WALL \*---- DENOTES ROOF BRACE \* — DENDTES PURLIN

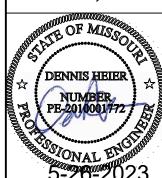
\* — DENDTES BEARING STRUCTURE

Drawing Name:

The **PHOENIX 3** 

Site Description: Lot 94, Summit View Farms -4th Plat Property Address:

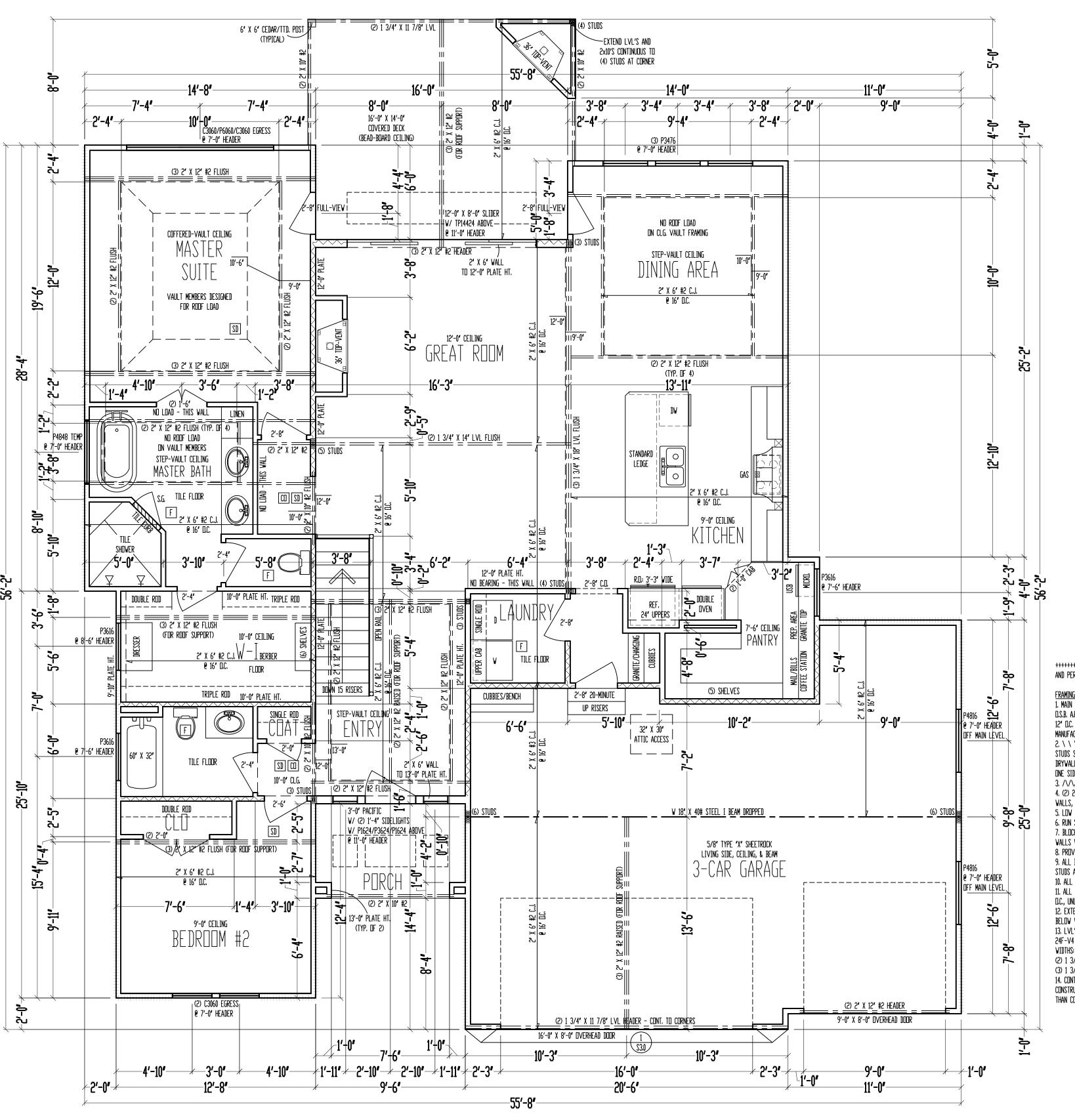
3108 SW Summit View Tr., Lee's Summit, Missouri General Contractor: Walker Custom Homes, LLC



Date: <u>5 - 8 - AD 2023</u> Rev. 1: Rev. 2:

Rev. 3:

Sheet Title: **ROOF PLAN** 



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

MAIN LEVEL: 1789 SQ. FT LOWER LEVEL: 1225 SQ. FT TOTAL: 3014 SQ. FT

GARAGE: 698 SQ. FT. COV. DUT/LIV: 233 SQ. FT UNFIN. BASEMENT: 460 SQ. FT.

AND PER CALCULATIONS ON SHEET S1.1.

1. MAIN LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16" D.S.B. A.P.A. PANELS W/ 8d CDMMDN NAILS @ 6" D.C. AT EDGES & @ 12' D.C. IN THE FIELD. SMART PANEL, DR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2. \ \ \ \ \ \ \ \ = G.B.: 1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ ND. 6 - 1 1/4" TYPE W DR S DRYWALL SCREWS @ 7" D.C. EDGES & FIELD. (MIN. 8'-0" SECTIONS ONE SIDE OF WALL (OR) MIN. 4'-0" SECTION FOR BOTH SIDES) 3.  $\/\/\/\/\/\/\$  = LOAD BEARING INTERIUR WALL. 4. (2) 2' X 10' #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.

5. LOW TIES @ 4'-0' D.C. (TYPICAL)

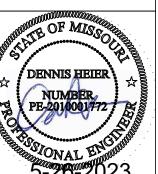
- 6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS. 7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS). 8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS. 9. ALL DESIGNATED 2' X 6' WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND VINDOW 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' D.C., UNLESS NOTED OTHERWISE.
- 12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS @ 8' D.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
- (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.

**Drawing Name:** 

The **PHOENIX 3** Site Description:

Lot 94, Summit View Farms -4th Plat Property Address: 3108 SW Summit View Tr., Lee's

Summit, Missouri General Contractor: Walker Custom Homes, LLC

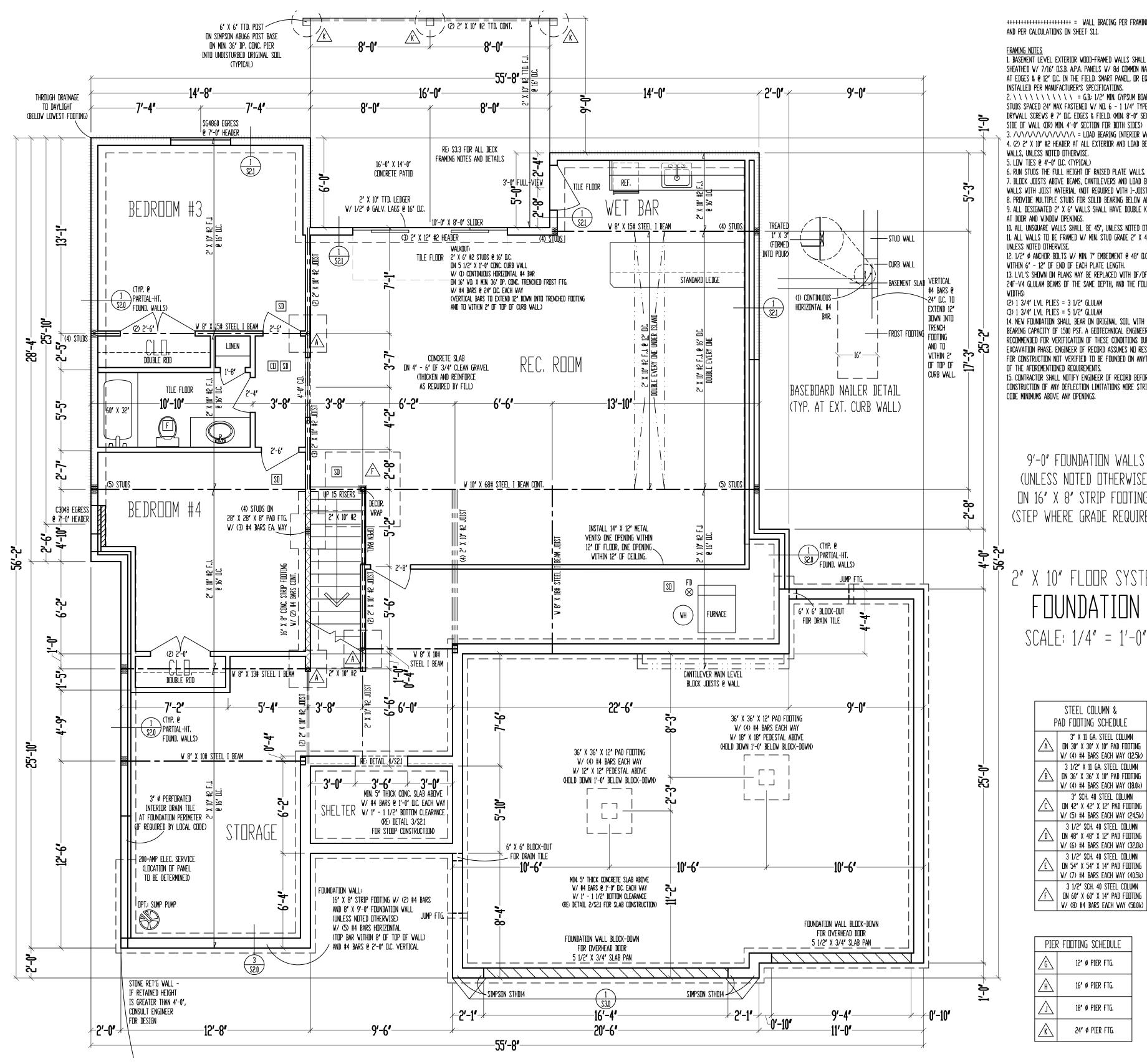


Date: <u>5 - 8 - AD 2023</u> Rev. 1: Rev. 2:

Rev. 3: Sheet Title:

MAIN LEVEL **PLAN** 

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 06/08/2023 4:10:05



AND PER CALCULATIONS ON SHEET S1.1.

1. BASEMENT LEVEL EXTERIOR WOOD-FRAMED WALLS SHALL BE SHEATHED W/ 7/16' D.S.B. A.P.A. PANELS W/ 8d COMMON NAILS @ 6' D.C. AT EDGES & @ 12' D.C. IN THE FIELD. SMART PANEL, DR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2. \ \ \ \ \ \ \ \ \ = G.B.: 1/2" MIN. GYPSUM BOARD DVER STUDS SPACED 24" MAX FASTENED W/ ND. 6 - 1 1/4" TYPE W DR S DRYWALL SCREWS @ 7" D.C. EDGES & FIELD. (MIN. 8'-0" SECTIONS DNE

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.

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

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' D.C.,

12. 1/2" Ø ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" D.C. MAX. & VITHIN 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

(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 FOUNDED 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.

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

2" X 10" FLOOR SYSTEM FOUNDATION

> STEEL COLUMN & PAD FOOTING SCHEDULE 3' X 11 GA. STEEL COLUMN

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

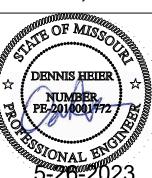
W/ (7) #4 BARS EACH WAY (40.5k) 3 1/2" SCH. 40 STEEL COLUMN F ON 60' X 60' X 14' PAD FOOTING W/ (8) #4 BARS EACH WAY (50.0k)

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

**Drawing Name:** The

PHOENIX 3 Site Description: Lot 94, Summit View Farms -4th Plat

Property Address: 3108 SW Summit View Tr., Lee's Summit, Missouri General Contractor: Walker Custom



Homes, LLC

Date: <u>5 - 8 - AD</u> 2023 Rev. 1: Rev. 2:

Rev. 3: Sheet Title:

**FOUNDATION** PLAN

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERV LEE'S SUMMIT, MI 06/08/2023 4:

10.06 PES PRIPTION OF BUILDING ELEMENTS NUMBER AND TYPE OF FASTENER SPACING AND LOCATION ROOF BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP 4-8d (21/2" x 0.113") TOENAIL PLATE, TOE NAIL CEILING JOISTS TO PLATE, TOE NAIL 4-8d (21/2" x 0.113") PER JOIST, TOENAIL CEILING JOISTS NOT ATTACHED TO PARALLEL 4-10d (3" x 0.128") FACE NAIL RAFTER, LAPS OVER PARTITIONS, FACE NAIL CEILING JOIST TO PARALLEL RAFTER (HEEL JOINT TBLE R802.5.2 FACE NAIL COLLAR TIE TO RAFTER, FACE NAIL OR 1 4" x 20 GA. 4-10d (3" x 0.128") FACE NAIL, EACH RAFTER RIDGE STRAP TO RAFTER 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 RAFTER OR ROOF TRUSS TO PLATE OPPOSITE SIDE OF EACH RAFTER OR TRUSS ROOF RAFTERS TO RIDGE, VALLEY, OR HIF 4-16d (3 $\frac{1}{2}$ " x 0.135") - TOENAIL; 3-16d BOX (3 $\frac{1}{2}$ " x RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE TOENAIL. END NAIL 0.135") - END NAIL BEAM 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 12" O.C. FACE NAIL 16d (3½" x 0.135") INTERSECTING WALL CORNERS (AT BRACED WALL 12" O.C. EACH EDGE FACE NAIL 16d (31/2" x 0.135") BUILT-UP HEADER, TWO PIECES WITH 1/8" SPACER 4-8d (21/3" x 0.131") **TOENAIL** CONTINUOUS HEADER TO STUD 10d (3" x 0.128") 12" O.C. FACE NAIL TOP PLATE TO TOP PLATE FACE NAIL ON EACH SIDE OF END JOINT (MIN. 24' 8-16d COMMON (3 3 x 0.162") DOUBLE TOP PLATE SPLICE LAP SPLICE LENGTH EACH SIDE OF END JOINT) BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST 16" O.C. FACE NAIL 16d COMMON (3 ½" x 0.162") OR BLOCKING (NOT AT BRACED WALL PANELS) 3 EACH 16" O.C. FACE NAIL BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST 3-16d BOX (3 <del>\frac{1}{2}"</del> x 0.135") OR BLOCKING (AT BRACED WALL PANEL) 4-8d BOX (2 ½" x 0.113") - TOENAIL; 3-16d BOX (3 ½" x TOENAIL, END NAIL (SEE LEFT) TOP OR SOLE PLATE TO STUD, END NAIL 0.135") - END NAIL 3-10d BOX (3" x 0.128") FACE NAIL TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS FACE NAIL 3-8d BOX (2 ½" x 0.113") 1" BRACE TO EACH STUD AND PLATE FACE NAIL 3-8d BOX (2 ½" x 0.113") 1"x6" SHEATHING TO EACH BEARING 3-8d BOX ( $2\frac{1}{2}$ " x 0.113") - FACE NAIL; WIDER THAN FACE NAIL 1"x8" SHEATHING TO EACH BEARING 1"x8" - 4-8d BOX (2 \( \frac{4}{7}\)" x 0.113") FLOOR TOE NAIL 4-8d BOX (2<sup>1</sup>/<sub>2</sub>" x 0.113") JOIST TO SILL, TOP PLATE, OR GIRDER 4" O.C. TOE NAIL RIM JOIST, BAND JOIST, OR BLOCKING TO SILL OF 8d BOX (2 ½" x 0.113") TOP PLATE (ROOF APPLICATIONS ALSO) FACE NAIL 3-8d BOX (2 ½" x 0.113") 1" x 6" SUBFLOOR OR LESS TO EACH JOIST BLIND AND FACE NAIL 3-16d BOX (3 ½" x 0.135") 2" SUBFLOOR TO JOIST OR GIRDER AT EACH BEARING, FACE NAIL 3-16d BOX (3 ½" x 0.135") 2" PLANKS (PLAN & BEAM - FLOOR AND ROOF) END NAIL 3-16d COMMON (3 ½" x 0.162") BAND OR RIM JOIST TO JOIST 24" O.C. FACE NAIL AT TOP AND BOTTOM BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER 10d BOX (3" x 0.128") LAYERS AT EACH JOIST OR RAFTER, FACE NAIL 4-16d BOX (3 ½" x 0.135") LEDGER STRIP SUPPORTING JOISTS OR RAFTERS 2-10d BOX (3" x 0.128") EACH END, TOENAIL

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

CRIPTION OF BUILDING MATERIAL		STRUCTURAL MEMBERS EDGE SPACING (INCHES)	INTERMEDIATE SUPPORTS (INCHE
WOOD STRUCTURAL PANELS, SU	BFLOOR, ROOF AND INTERIOR WALL SHEA	ATHING TO FRAMING AND PARTICLES	OARD WALL SHEATHING TO FRAMING
%" - ½"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	12
19/32" - 1"	8d COMMON NAIL (2 <b>½</b> " x 0.131")	6	12
11%" - 11¼"	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	1½" GALVANIZED ROOFING NAIL, 78" HEAD DIAMETER, OR 1½" LONG 16 GA. STAPLE WITH 78" OR 1" CROWN	3	6
25" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 3 GALVANIZED ROOFING NAIL, 7 HEAD DIAMETER, OR 1 1 LONG 16 GA. STAPLE WITH 7 OR 1 CROWN	3	6
<b>½</b> " GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1½" SCREWS, TYPE W OR S	7	7
<b>%</b> " GYPSUM SHEATHING	1¾" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1¾" LONG; 1¾" SCREWS, TYPE W OR S	7	7
W	OOD STRUCTURAL PANELS, COMBINATION	N SUBFLOOR UNDERLAYMENT TO FRA	AMING
<b>火</b> " AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2½" x 0.131") NAIL	6	12
<b>%</b> " - 1"	8d COMMON (2½" x 0.131") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12
1 <b>½</b> " - 1 <b>½</b> "	10d COMMON (3" x 0.148") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12

BRIDGING OR BLOCKING TO JOIST

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** 

- CONCRETE SHALL BE AIR-ENTRAINED BETWEEN 5%-7% WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS-ON-GRADE, 3000 PSI FOR FOUNDATION WALLS, AND 3500 PSI FOR
- PORCHES AND GARAGE FLOOR SLABS THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION'S RESIDENTIAL FOUNDATION
- PROVIDE A MINIMUM 4"-DIAMETER PERFORATED DRAIN PIPE ALONG PERIMETER OF USABLE SPACE AT FOOTING LEVEL OR OTHER EQUIVALENT MATERIALS PER IRC SECTION R405.1. THE PIPE SHALL BE COVERED WITH A MINIMUM OF 6" OF GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT BELOW FOOTING LEVEL OR TERMINATE IN A MINIMUM 20 GALLON SUMP PIT
- FOUNDATION SHALL BE DESIGNED FOR A BEARING CAPACITY OF 1500 PSF AND FOUNDED ON COMPETENT ORIGINAL SOIL AS DETERMINED AND CONFIRMED BY A LICENSED GEOTECHNICAL ENGINEER OR ENGINEERING GEOLOGIST. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANY SOIL WITH THE AFOREMENTIONED MINIMUM PROPERTIES.
- FOOTINGS SHALL BE A MINIMUM OF 16" WIDE x 8" DEEP AND SHALL HAVE A MINIMUM OF (2) CONTINUOUS GRADE 40 #4 BARS WITH 3" BOTTOM CLERANCE. BOTTOM OF FOOTING SHALL BE LOCATED A MINIMUM OF 3'-0" BELOW GRADE
- CONCRETE PADS SUP0PORTING COLUMN LOADS SHALL BE NO SMALLER THAN 2'-0" x 2'-0" x 1'-0" DEEP WITH A MINIMUM OF (4) GRADE 40 #4 BARS EACH WAY WITH 3" BOTTOM CLEARANCE FOUNDATION WALLS SHALL BE A MINIMUM OF 8" NOMINAL WIDTH AND SHALL HAVE HOIZONTAL GRADE 40 #4 BARS
- AT 2'-0" O.C. MAX. WITH VERTICAL #4 BARS AS REQUIRED ON FOUNDATION CROSS SECTION ON SHEET S2.0
- REINFORCEMENT SHALL LAP A MINIMUM OF 2'-0" (CLASS B SPLICE) INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB
- BASEMENT FLOOR SLAB SHALL BE A MINIMUM OF 4" THICK ON A MINIMUM BASE COURSE OF 4" TO 6" OF SAND, GRAVEL OR CRUSHED ROCK. BETWEEN THE BASE COURSE AND FLOOR SLAB SHALL BE PLACED A 6-MIL POLY
- VAPOR RETARDER WITH MINIMUM OVERLAP OF 6" AT DISCONTINUITIES 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
- 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 FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET
- 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

- ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS-FIR-LARCH GRADE #2, UNLESS NOTED OTHERWISE ON PLANS ALL INTERIOR LOAD-BEARING AND EXTERIOR WALL HEADERS SHALL BE (2) #2 - 2x10's, UNLESS NOTED OTHERWISE
- BLOCK OVER BEAMS AND AT CANTILEVERS AND DOOR JAMBS
- INTERIOR NON-BEARING WALLS RESTING ON BASEMENT SLAB SHALL BE ISOLATED FROM ABOVE FRAMING BY A MINIMUM OF 1/31
- ALL HEADERS/BEAMS SHALL BEAR ON A MINIMUM OF (2) 2x4 POSTS (KING AND JACK STUDS), UNLESS NOTED **OTHERWISE**
- 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.
- ALL WOOD MATERIAL SUPPORTED ON CONCRETE OR MASONRY SHALL BE TREATED OR OF DECAY-RESISTANT MATERIAL
- JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD. JOISTS FRAMING INTO THE FACE OF A STEEL OR WOOD BEAM SHALL BE SUPPORTED WITH APPROPRIATE
- JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID BLOCKING MIN. 1%" IN THICKNESS OR BY FASTENING RIM TO JOISTS PER FASTENING TABLE TO LEFT
- ALL WALL COVERINGS SHALL COMPLY WITH IRC SECTION R702.3 ALL RAFTERS AND COLLAR TIES SHALL COMPLY WITH IRC SECTION R802.3.
- ALL RAFTERS SHALL HAVE 2x4 COLLAR TIES @ 4'-0" O.C. IN UPPER ½ OF VERTICAL DISTANCE BETWEEN CEILING AND
- BLOCKING BETWEEN JOISTS UNDER A LOAD-BEARING WALL IS NOT REQUIRED
- PER IRC SECTION 501.3, BOTTOM OF ALL FLOOR ASSEMBLIES ABOVE UNFINISHED AREAS SHALL BE PROVIDED WITH A %" 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)
- ENGINEERED LVL's SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E=1900 ksi, AND Fv=285 psi ENGINEERED PARALLAMS SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E = 2000 ksi, AND Fv = 290 psi
- 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.
- 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
- ALL ROOF SHEATHING SHALL BE  $\frac{7}{6}$ " OSB WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD

## **GLAZING NOTES**

- 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" ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC SECTION R612.2

## ATTIC VENTILATION

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 1/2" TO 1/2" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN  $\chi_{50}$  OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED - THE REQUIRED AREA MAY BE REDUCED TO 1/300.

## **EMERGENCY EGRESS**

- 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
- 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

- 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 %" MORTAR OR GROUT COVER TO OUTSIDE FACE.
- 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 🔏 CORRUGATED.
- 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.
- 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

- DOOR(S) BETWEEN THE GARAGE AND DWELLING SHALL BE MINIMUM 1% SOLID CORE OR HONEY-COMBED STEEL
- DOOR WITH 20-MINUTE FIRE RATING EQUIPPED WITH A SELF-CLOSING DEVICE
- VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST LOADING PER DASMA 108 AND ASTM E 330-96 PER IRC 2018

#### GARAGE NOTES (CONTINUED)

THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM 5/4" GYP. BOARD APPLIED TO THE GARAGE SIDE OF FRAMING. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE, THE GARAGE CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM 5/4" 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 5/8" GYP. BOARD. 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) 31/4" x 0.120" NAILS THROUGH THE JAMB INTO THE HEADER. MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

#### DESIGN LOADING (PER TABLE R301.5)

MINIMUM UNIFORMLY 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 SLAN				
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 infill components. These loads shall be determined independently of one another, and loads are assumed

d. An additional dead loading of 10 psf shall be applied where thinset tile floor is to be installed. An additional dead loading of 50 psf shall be applied where mudset tile floor is to be installed

#### INSULATION/EFFICIENCY

not to occur with any other live load.

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

INSULATION AND FENESTRATION REQUIRE	MENTS BY COMPONENT (TABLE NI1102 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:** 

- AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS.
- WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE. THREE SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT.
- CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES OF WATER COLUMN

## DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING: POST-CONSTRUCTION TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM

- PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST
- ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST, TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA.

**EXCEPTION:** THE TOTAL LEAKAGE TEST IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS 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					

MULTIPLE-PLY WOOD BEAM FASTENING SCHEDULE								
DIMENSIONAL LUMBER BEAM SIZE/TYPE	FASTENERS	LVL BEAM SIZE/TYPE	FASTENERS	LVL BEAM SIZE/TYPE	FASTENERS			
(2) 2x	(2) ROWS 10d @ 12" O.C. ONE SIDE	(2) 1 ¾" UP TO 11 ½" DEPTH	(2) ROWS 16d @ 12" O.C. ONE SIDE	(3) 1 ¾" x 14"+ DEPTH	(3) ROWS 16d @ 12" O.C. BOTH SIDES			
(3) 2x	(2) ROWS 10d @ 12" O.C. BOTH SIDES	(2) 1 ¾" 14"+ DEPTH	(3) ROWS 16d @ 12" O.C. ONE SIDE	(4) 1 ¾" UP TO 11 ½" DEPTH	(2) ROWS ¼" x 5" SIMPSON SDS OR SDWS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM BOTH SIDES			
(4) 2x	(2) ROWS ¼" x 5" SIMPSON SDS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM, BOTH SIDES	(3) 1 ¾" UP TO 11 ½" DEPTH	(2) ROWS OF 16d @ 12" O.C. BOTH SIDES	(4) 1 ¾" x 14"+ DEPTH	(3) ROWS ½" x 5" SIMPSON SDS OR SDWS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM BOTH SIDES			



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#### RESIDENTIAL SEISMIC & WIND ANALYSIS

				INPUT
DETERMINE WEIGHT OF HOUSE:				CALCULATED VALUE
LOCATION		DEAD LOAD (psf)	AREA (ft <sup>2</sup> )	WEIGHT (lbs.)
ROOF		10	2767	27670
CEILING		10	2767	27670
FIRST FLOOR		10	2767	27670
	WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)
FIRST FLOOR EXT. WALL DL	281	10	_10	28100
		DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)
FIRST FLOOR INT. PARTITION WALL DL		6	2767	16602

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	268	1180		SLOPED ROOF	420	1808		
VERT. ROOF	40	558	CUMULATIVE	VERT. ROOF	0	0	CUMULATIVE	
1ST	731.5	10200	12103	1ST	814	11160	13133	
BSMT <sup>a</sup>	0	0	0	BSMT <sup>a</sup>	122	2123	8689	
			PRESSURE (PSF	F) - 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	13.3	
	MEAN ROOF HT., h		20			· ·		

a) If there is a walkout wall to be sheathed, determine tributary wind area and enter here. If no walkout, enter 0 for area.

 $q_{z10} = 0.00256 K_z K_{zt} K_d V^2 \text{ (ASCE7-10 Velocity Pressure)}$   $q_{z10\_ASD} = 0.6 q_{z10} \text{ (Design Velocity Pressure for ASD analysis under ASCE7-10 and IRC/IBC 2012)}$ 

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

R (from ASCE7 Table 12.2-1)

69390 12.0% 1.6 0.128 6.5

<u> </u>		From AS	CE7 (Eq. 12.8-1):	V (= 1.2 * S <sub>DS</sub> * W / R) (lbs.)
DR IT				1640 1640
Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Shear (#/l	LF) Code Reference
Exterior (Option \$1)	7/16" APA Reted Plywood/OSB	1-1/2" 16ga, Staples w/ 1" penetration@ 6" OC Edges, 6" OC Field For 24" stud specing, 12" OC Field For 16" stud specing	155	per IBC, Table 2306.3(1)
Exterior (Option #2)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 4" OC Edges, 6" 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" 16ga. Staples w/ 1" penetration@ 3" OC Edges, 6" OC Field For 24" stud specing, 12" OC Field For 16" stud specing	310	per IBC, Table 2305.3(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 SDPW 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 SDPW 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 pane edge	8d Common Nails w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C.	410	AF&PA SDPW Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 1 <sup>1</sup> / <sub>4</sub> " Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field	60	per IBC, Table 2306.4.4

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

Interior

WIDTH OF 1ST STORY (FT.)	66.5
DEPTH OF 1ST STORY (FT.)	74
BACK WALL OF GARAGE (FT.)	22.5
GAR. WALL: 1=F-B, 2=S-S	2

DEPTH OF 2ND STORY (FT.)

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.)
1ST FLOOR	92	34960	27.5	10450	92	48944	27.5	14630
BASEMENT	0	0	24	6720	0	0	24	9408
	-							

specifications - see detail on sheet S3)

16 Ga. Simpson/USP Type WB Steel X-Brace (or (3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacture

	ADDITIONAL RESISTANCE REQUIRED			
	SEISMIC	WIND		
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		
BASEMENT SIDE-TO-SIDE	0	0		

Anchor Bolt Spacin	ng (in.)
diameter (in.)	0.5
Shear value (per NDS)	944
Spacing F-B (inches)	221.6
spacing S-S (inches)	183.6

Crical value (per 1120,	10(1100100		
Spacing F-B (inches)	221.6		
spacing S-S (inches)	183.6		
STANCE PROVIDED BY EXTERIOR WA	ALLS**		
INTERIOR WALL LENGTH W/ 1/2"	INT. WALL LENGTH SHEATHED W/ OSB	RESISTANCE PROVIDED BY	

	RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS**						
ADDITIONAL RESISTANCE PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE INTERIOR X-BRACES (325#/BRACE) INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)		INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?			
1ST FLOOR FRONT-TO-BACK	0					0	YES
1ST FLOOR SIDE-TO-SIDE 0 0 YES							YES
BASEMENT FRONT-TO-BACK	0					0	YES
BASEMENT SIDE-TO-SIDE	0					0	YES
**NOTES: 1) SEE ATTACHED CALCULATION	IC FOR BORTAL FRAME	*NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL ERAMS OR REPERBATED SHEAR WALL RESISTANCE CARACITIES (IF ARRIVED IN A REPERBATED SHEAR WALL RESISTANCE CARA					

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

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 REQUIRE

ALL LATEIVAL DIVACE	ELE ENTERNAL BRACING ACHIEVED AT EXTERIOR WALLS AND WALLS DIRECTED ON TOURDATIONS, THEREI ORE, NO INTERIOR BRACING I ER 2012 ING SECTION ROSS.2.2.1 TO REQUIRE						
	WIND UPLIFT ANALYSIS						
	X/12	DEGREES			_	•	·
ROOF PITCH (MAX)	5	22.6	PITCH OF 6 OR LESS:	EOH -13.3, E -7.2, G -5.2			
	ASCE 7						
	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)			
OVERHANG	1	16.56	283	16.56			
	TOTAL AREA (FT <sup>2</sup> )	ZONE E AREA (FT <sup>2</sup> )	ZONE G AREA (FT <sup>2</sup> )	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @ PERIMETER (LBS)
MAIN ROOF**	4921	-654.36	5575.36	15.12	10.5	48647	173.1
*ALONG PERIMETER	*ALONG PERIMETER TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)			189.7	UPLIFT OK		
**INSIDE EXTERIOR V	*INSIDE EXTERIOR WALLS RESISTANCE DUE TO DEAD WEIGHT & (3) 10d TOENAILS				251.6		

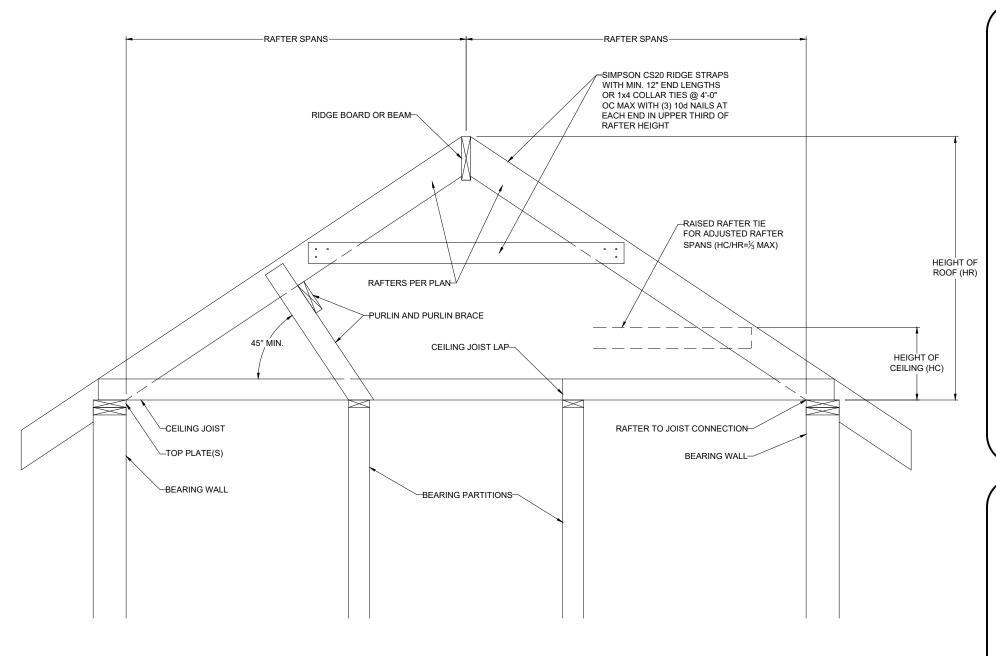
## NOTE FOR CONSTRUCTION:

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 DESIG

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 S1.1 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

Combustion Air Calculation Per 2018 IRC Section G2407.5

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

Total BTU/hr 150000 BTU/h

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

1172 ft<sup>2</sup> 8.5 ft

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

Is floor where appliances are located open to adjacent level?

If Yes, what is the area of open space adjacent to appliance area?

Yes 0

Per 2018 IRC Section G2407.5.1 (Standard Method), the minimum required volume shall be 50 cubic feet per 1,000 BTU/hr (Total BTU/hr / 1,000 BTU/hr x 50  $\rm ft^3$ )

Required air space in combined areas:

Area of Combined Space > Required combined area?

7500 ft<sup>3</sup>

882 ft<sup>2</sup>

Required combined area:

ОК

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

The minimum dimension of air openings shall be not less than 3 inches.

Note: two grills required - one within 12" of floor, one within 12" of clg.

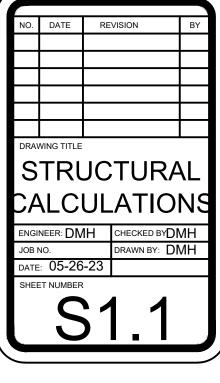
Minmum required opening area: 150 in<sup>2</sup>
Minimum grill size: 14 x 11 (inches)

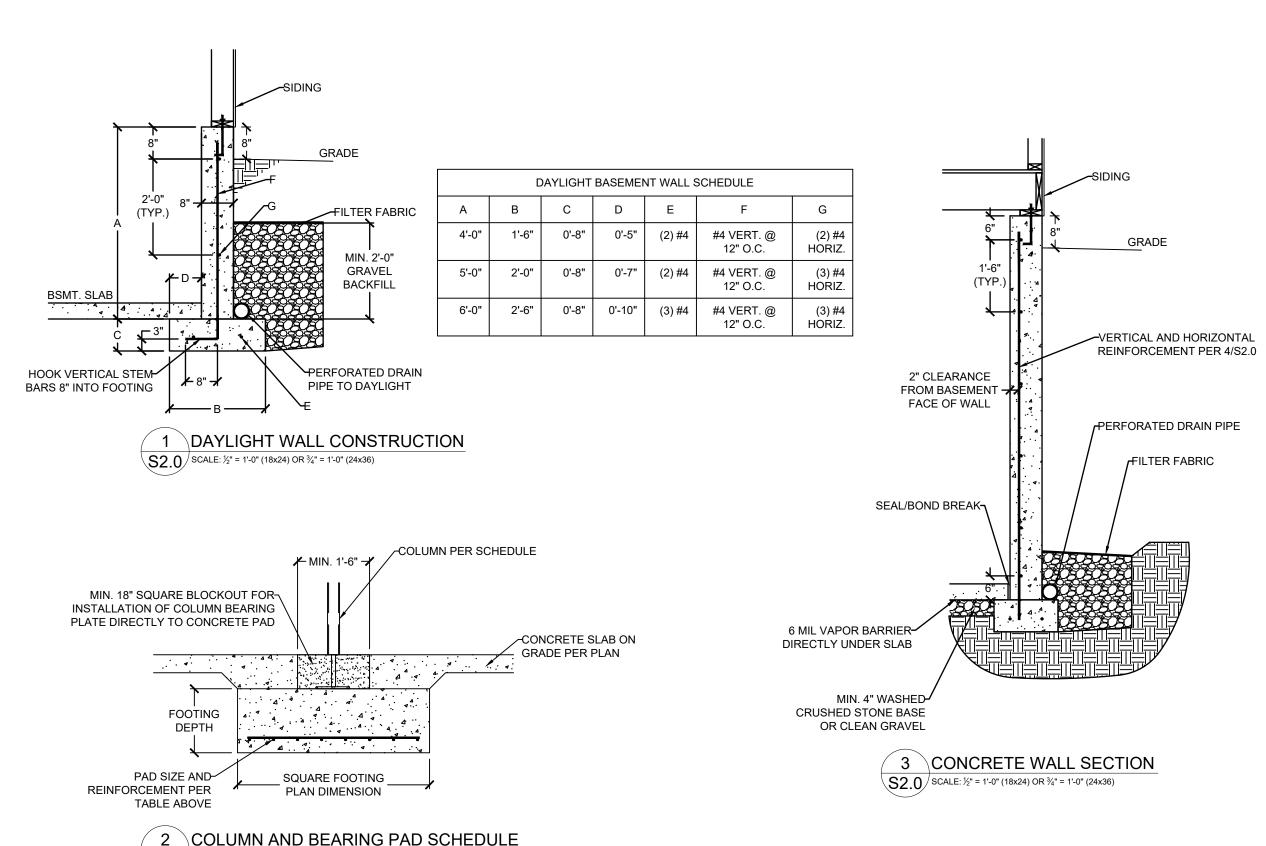
S TITLE: SVF094 SPEC
LOT 94, SUMMIT VIEW FARMS,
SATION: 3108 SW SUMMIT VIEW TR.
LEE'S SUMMIT, MISSOURI

WALKER CUSTOM HOMES, LLC

CLIENT:







VERTICAL REINFORCEMENT SPACING 10" THICK WALL CONCRETE STRENGTH/GRADE 8" THICK WALL REINFORCEMENT (#4 BARS) 9' 9' 10' 8' 10' 8' 3.000 PSI/ GRADE 40 24 24 16 24 24 18 3,500 PSI/ GRADE 40 24 24 18 16 24 24 3,000 PSI/ GRADE 60 24 24 24 18 16 24 3,500 PSI/ GRADE 60 24 24 24 18 24 16 HORIZONTAL REINFORCEMENT - MINIMUM GRADE 40 STEEL ONE BAR 12" FROM TOP OF WALL; 6-#4 7-#4 7-#4 6-#4 7-#4 7-#4 MAX. SPACING 24" OC

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 63/4" 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 11/2"

B) NOT EXPOSED TO WEATHER (INTERIOR SIDE OF WALLS) -3/4" C) CONCRETE EXPOSED TO WEATHER (TOP CLEARANCE IN GARAGE AND DRIVEWAY

SLABS) - 1½" 4) HORIZONTAL RÉINFORCEMENT:

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

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 31/2". 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

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



VIEW VIEW SUMMIT VIMINATION OF THE STATE SPEC SUMMIT 3108 SW { LEE'S SUI SVF094 LOT 94, TITLE:

DENNIS HEIER PE-2010001772

-SLAB PER PLAN, IF APPLICABLE

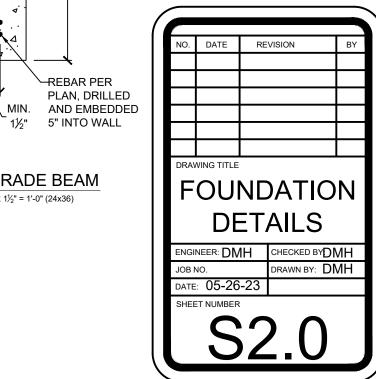
PER PLAN

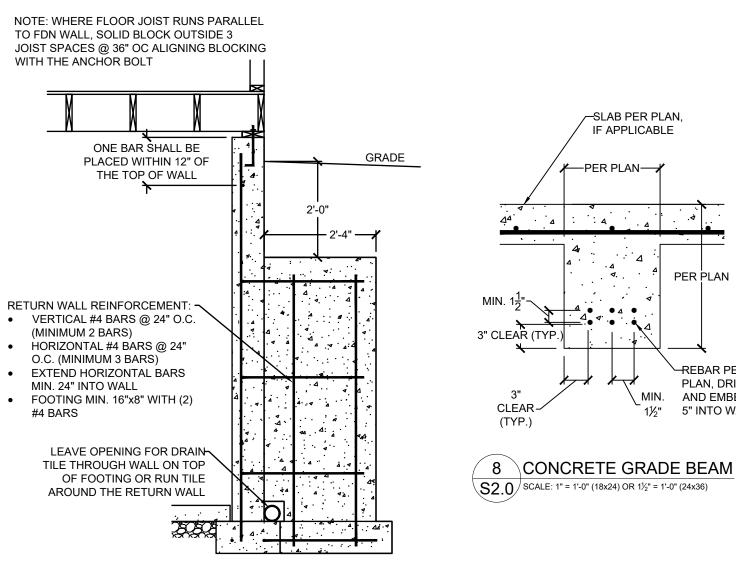
-REBAR PER

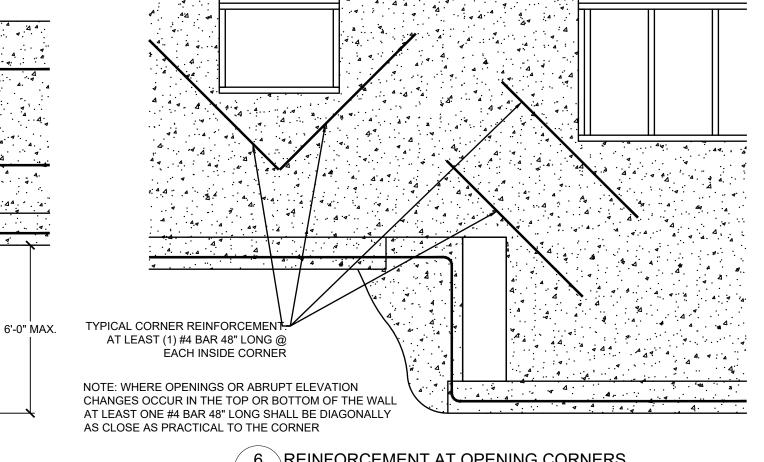
5" INTO WALL

PLAN, DRILLED

PER PLAN







6 REINFORCEMENT AT OPENING CORNERS S2.0/AND STEP CORNERS @ INSIDE CORNERS

SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)

5 \SOLID JUMP \$2.0\scale: \frac{10}{2} = 1'-0" (18x24) OR \frac{3}{4}" = 1'-0" (24x36)

SOLID JUMP

MAX. 12" BLOCKOUT FOR

FORM PLACEMENT AND

TO EXTEND DRAIN TILE

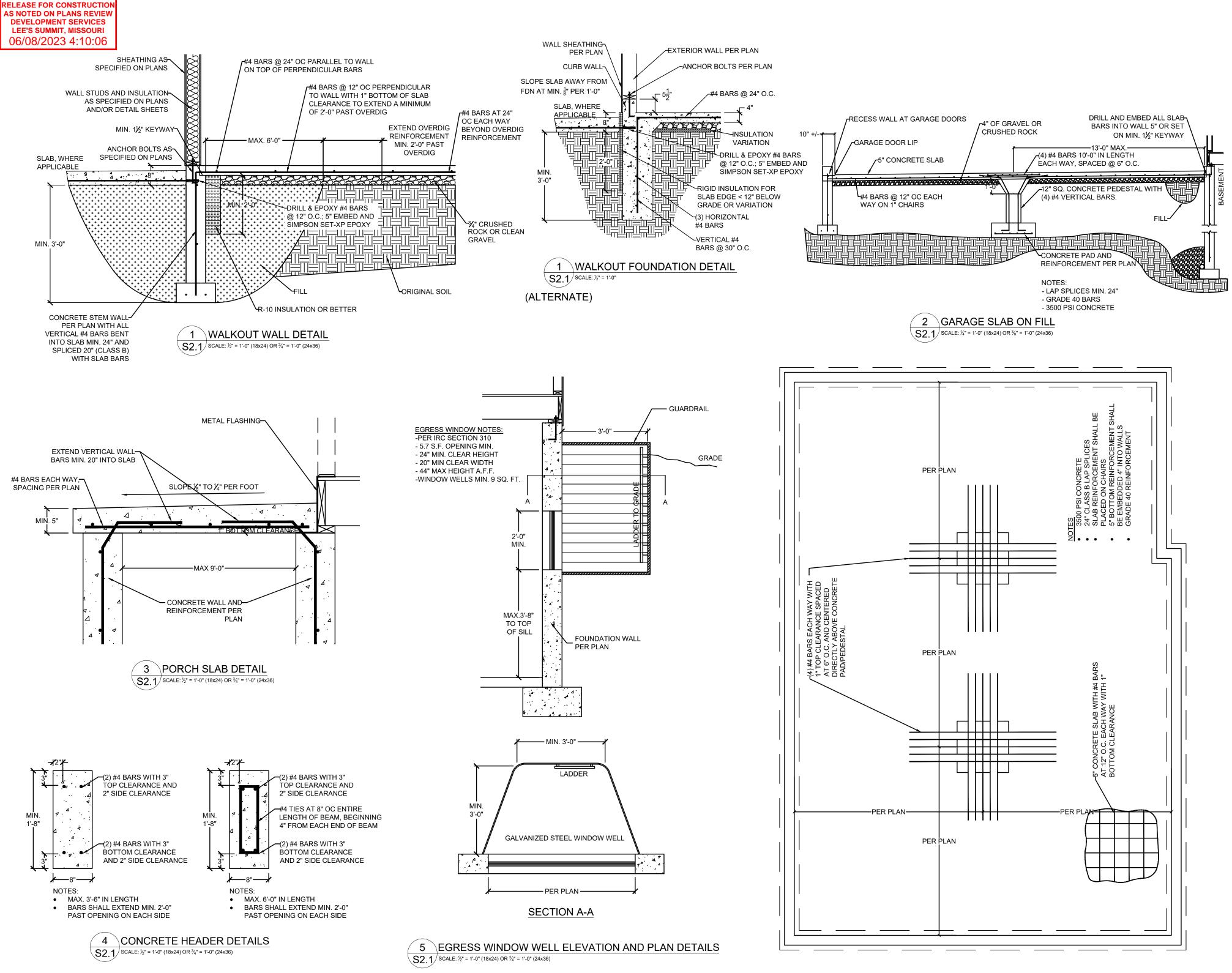
-CONTINUOUS FOOTING AND REBAR THROUGH

\$2.0 SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)

MIN. (2) #4 BARS EXTENDING 24"

PAST OVER-EXCAVATION AND INTO INTERSECTING WALL

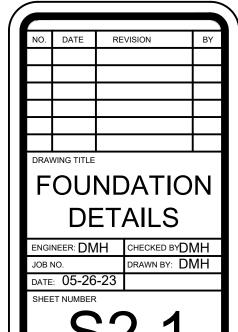
> 7 RETURN WALL DETAIL S2.0 SCALE:  $\frac{1}{2}$ " = 1'-0" (18x24) OR  $\frac{3}{4}$ " = 1'-0" (24x36)

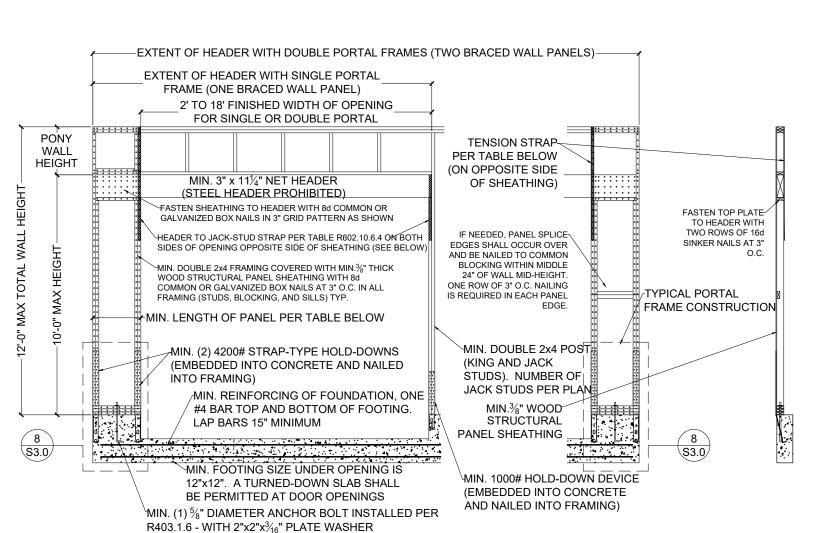


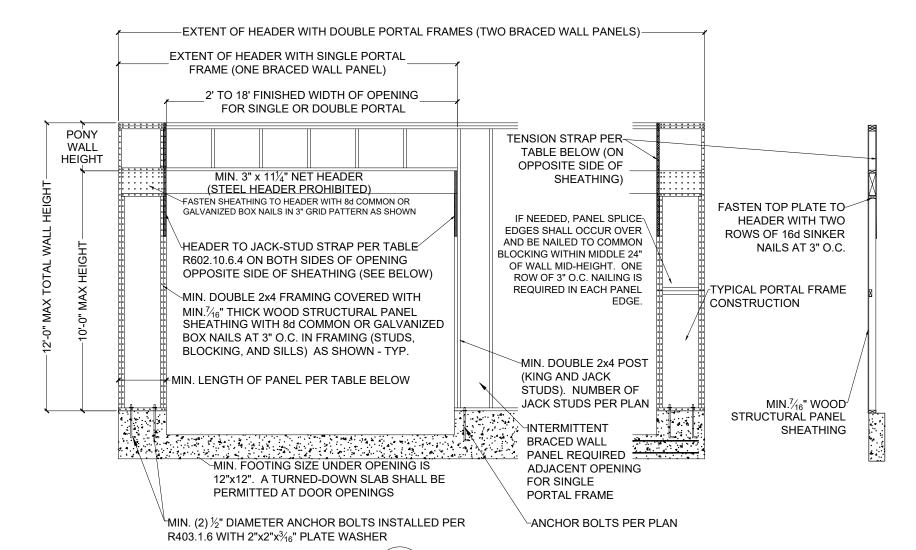


CLIENT: WALKER CUSTOM HOMES, LLC
JOB TITLE: SVF094 SPEC
LOT 94, SUMMIT VIEW FARMS, 4TH PLAT
LOCATION: 3108 SW SUMMIT VIEW TR.
LEE'S SUMMIT, MISSOURI







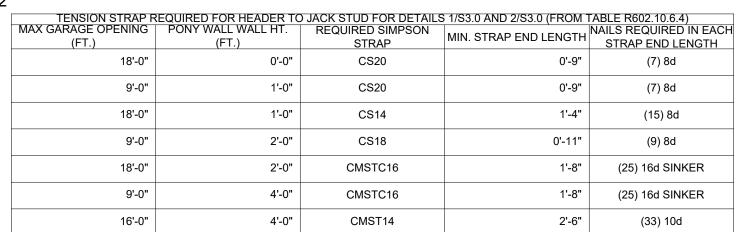


1 \METHOD PFH (PORTAL FRAME WITH

S3.0/HOLD-DOWNS) - PER FIGURE IRC R602.10.6.2

SCALE: ½" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

	MINIMUM PANEL LENGTH FOR DETAIL 1/S3.0 (INCHES)				
	WALL HEIGHT				
	8 FEET	ET 9 FEET	10	11	12
	OFEET	9 FEET	FEET	FEET	FEET
SUPPORTING ROOF ONLY	16	16	16	18	20
SUPPORTING ONE STORY AND ROOF	24	24	24	27	29

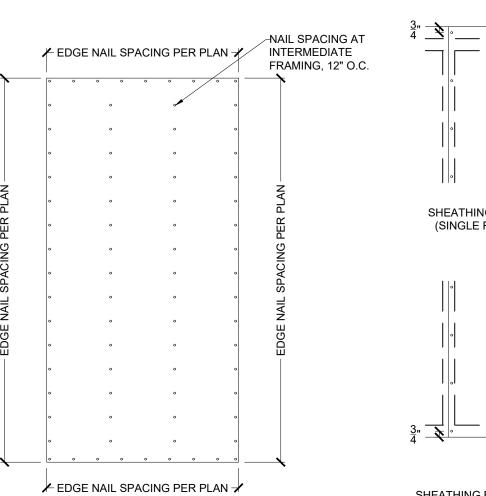




SCALE: 1/4" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

MINIMUM PANEL LENGTH FOR DETAIL 2/S3.0 (INCHES)					
	V	/ALL HEIGH	T		
8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	
24	27	30	33 <sup>a</sup>	36 <sup>a</sup>	

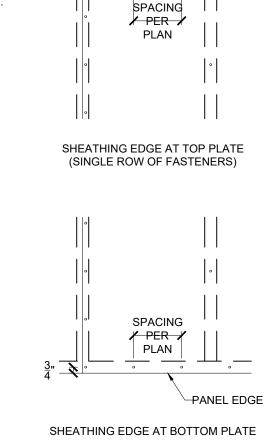
a. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall

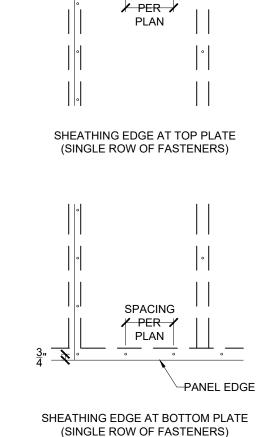


3 EXTERIOR WALL SHEATHING

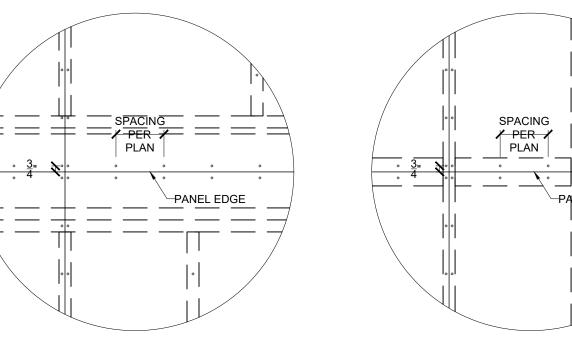
SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)

S3.0/PANEL ATTACHMENT





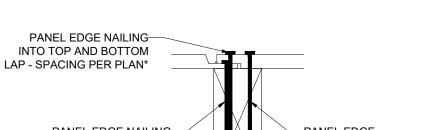






S3.0/FRAMING MEMBER

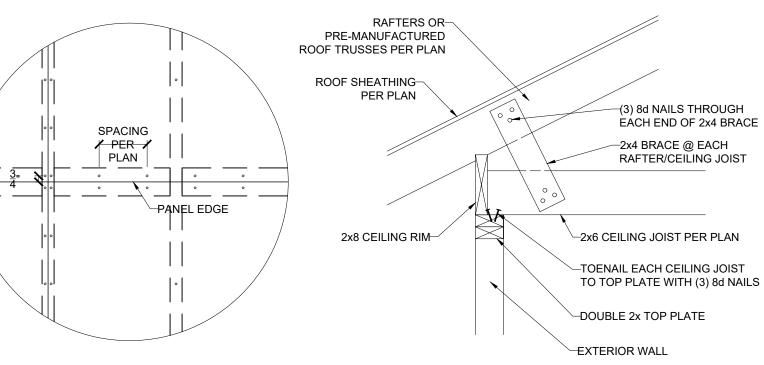
6 SHEATHING EDGE AT PANEL S3.0/SPLICE ACROSS STUDS SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36) SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



PANEL EDGE NAILING-PANEL EDGE INTO BOTTOM LAP -SPACING PER PLAN WALL STUD AT

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 S3.0/SHIPLAP PANEL SHEATHING SCALE: 4" = 1'-0" (18x24) OR 6" = 1'-0" (24x36)



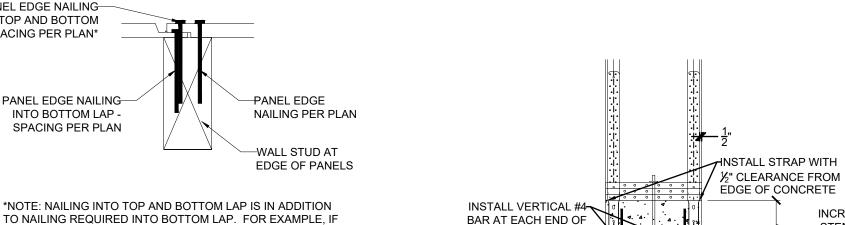
7 RAFTER BEARING OPTION DETAIL  $\sqrt{3.0}$  SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

INCREASE HEIGHT OF

STEM AS NEEDED TO

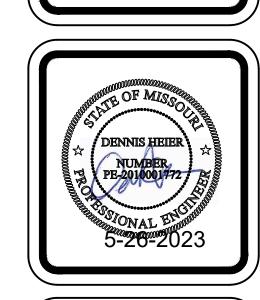
LIMIT HEIGHT OF WOOD

WALL TO 10'-0" MAX.



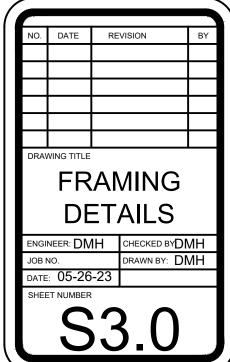
CONCRETE WALL STEM

9 GARAGE HOLD-DOWN S3.0/STRAP INSTALLATION SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)



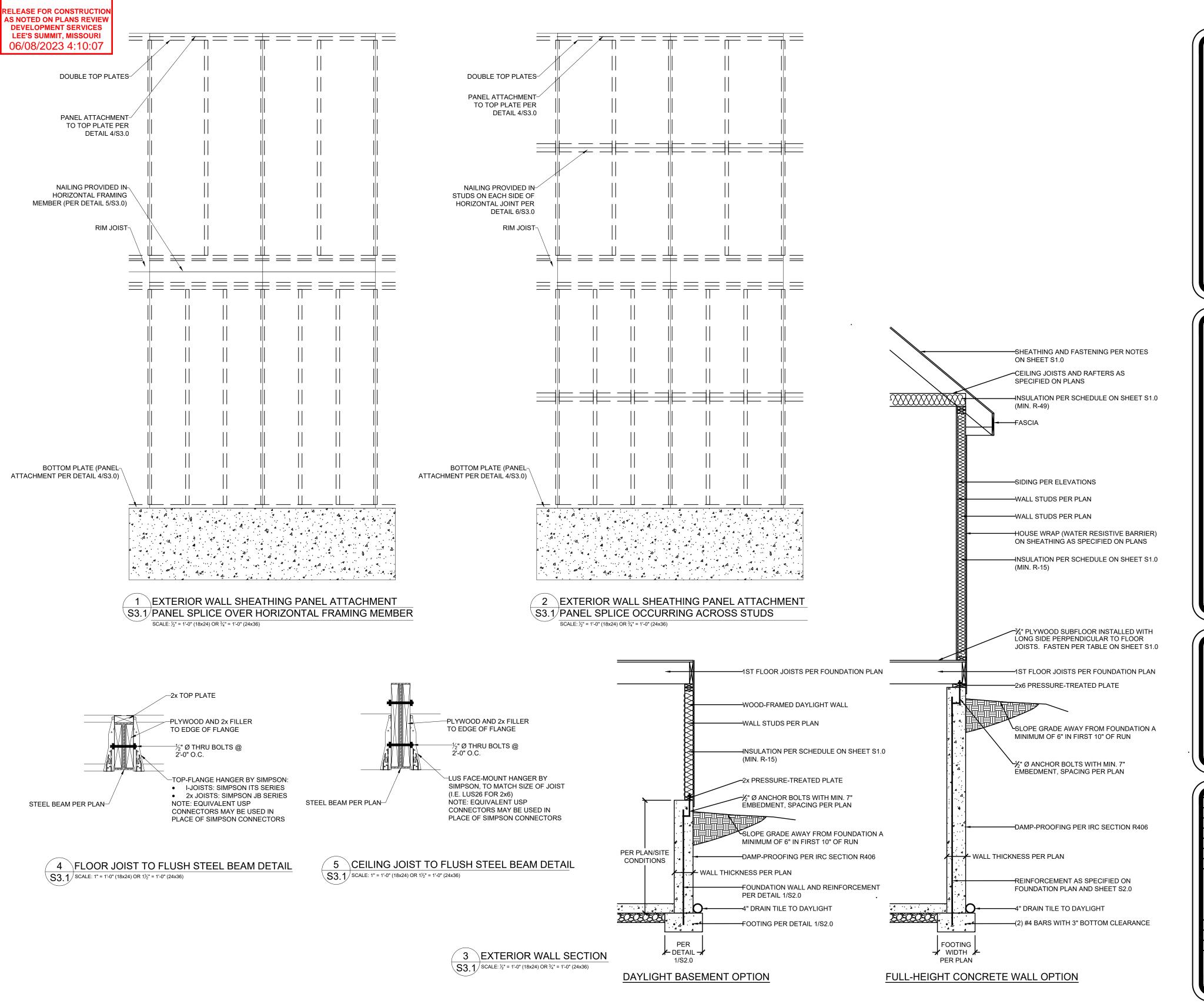
В

C



FARMS, SW SUMMIT VIEW TE SUMMIT, MISSOURI SPEC SUMMIT CUSTOM SVF094 LOT 94,  $\bar{\mathbf{o}}$ 3108 LEE'S

₩.





CLIENT: WALKER CUSTOM HOMES, LLC

JOB TITLE: SVF094 SPEC

LOT 94, SUMMIT VIEW FARMS, 4TH PLAT

LOCATION: 3108 SW SUMMIT VIEW TR.

LEE'S SUMMIT, MISSOURI



DRAWING TITLE

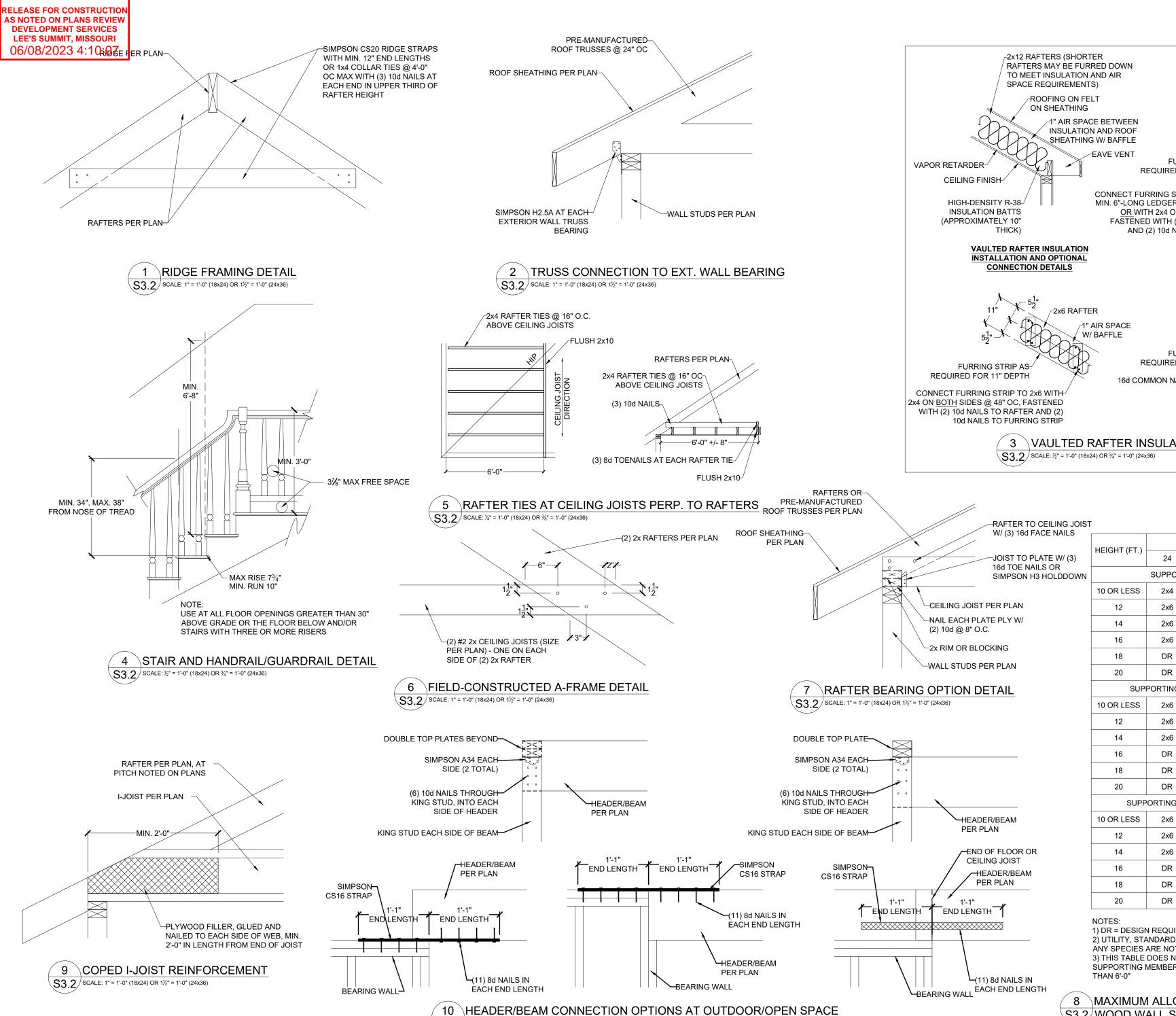
FRAMING
DETAILS

ENGINEER: DMH

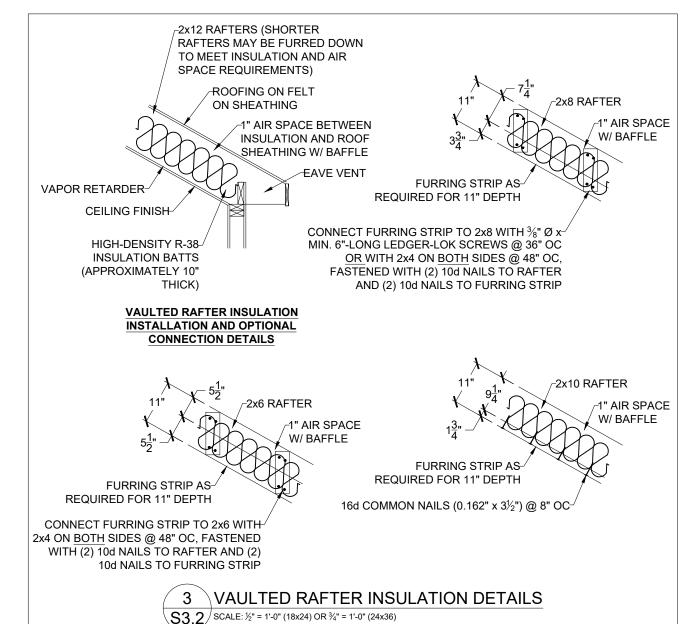
JOB NO.
DATE: 05-26-23

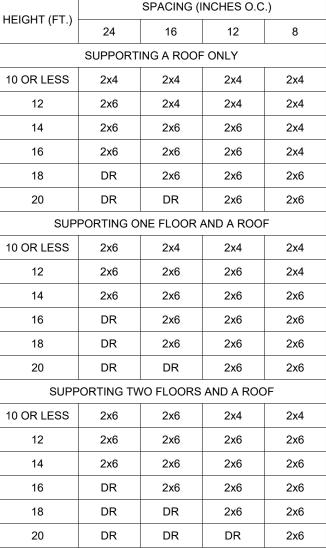
SHEET NUMBER

S3.1



 $\sqrt{$3.2}$  SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)





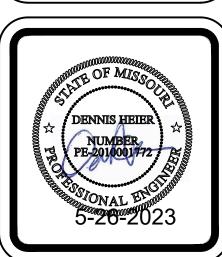
1) DR = DESIGN REQUIRED 2) UTILITY, STANDARD, STUD AND #3 GRADE LUMBER OF ANY SPECIES ARE NOT PERMITTED 3) THIS TABLE DOES NOT APPLY FOR STUDS SUPPORTING MEMBERS WITH A TRIB. LENGTH GREATER

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

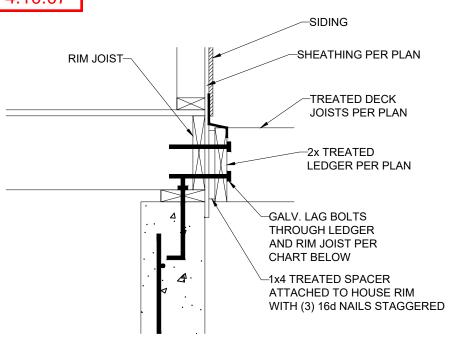


SPEC SUMMIT VIEW FARMS, SW SUMMIT VIEW TR S SUMMIT, MISSOURI SVF094 S LOT 94,

WALKER CUSTOM HOMES,

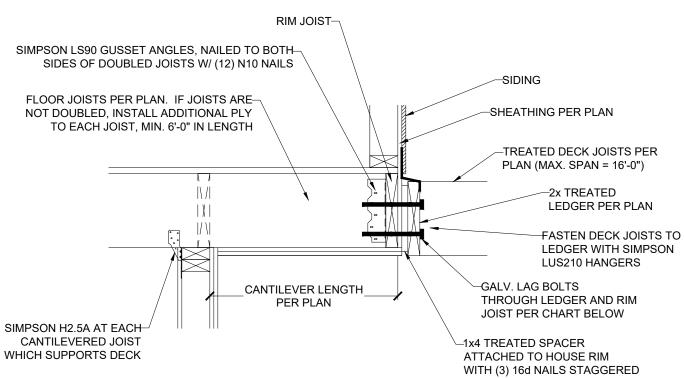


NO.	DATE	RE	VISION		BY
DRAV	WING TITLE				
	FRAMING				
	DETAILS				
ENGI	NEER: DN	1H	CHECKE	ED BY <b>D</b>	ИΗ
JOB 1	NO.		DRAWN	BY: DI	ИΗ
DATE	: 05-26	-23			
SHEET NUMBER					
	$C_{2}$				



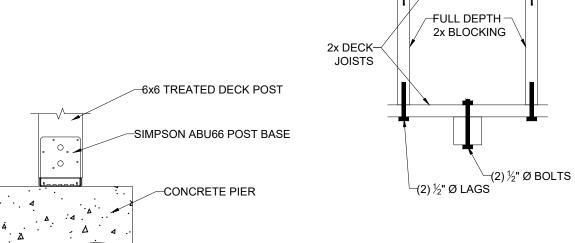
#### DECK LEDGER ATTACHMENT GUIDE

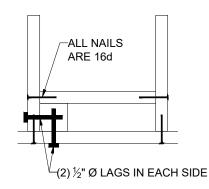
DECK JOIST SPAN	½" Ø GALV. LAG OR ¾" Ø LEDGER-LOK SPACING
10'-0" OR LESS	16" OC
10'-0" - 13'-11"	12" OC OR @ 16" OC DOUBLED EVERY OTHER
14'-0" - 18'-0"	8" OC OR @ 16" OC DOUBLED



2 CANTILEVER WITH DECK ATTACHMENT

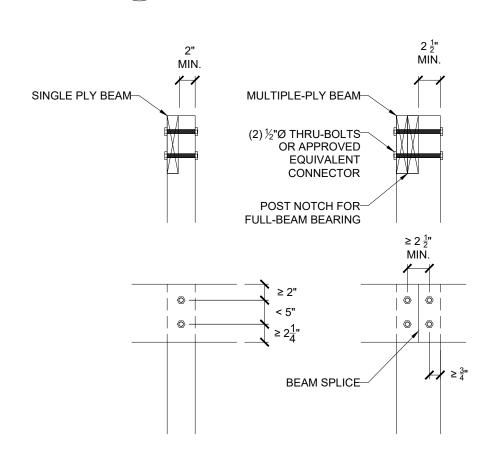
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)





4 REINF. POST CONNECTIONS S3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

## **LEDGER ATTACHMENT** \$3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

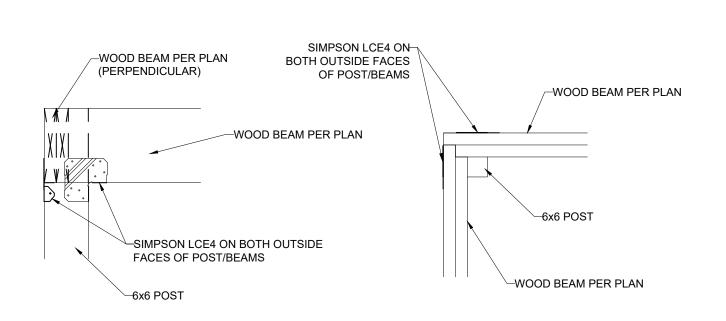




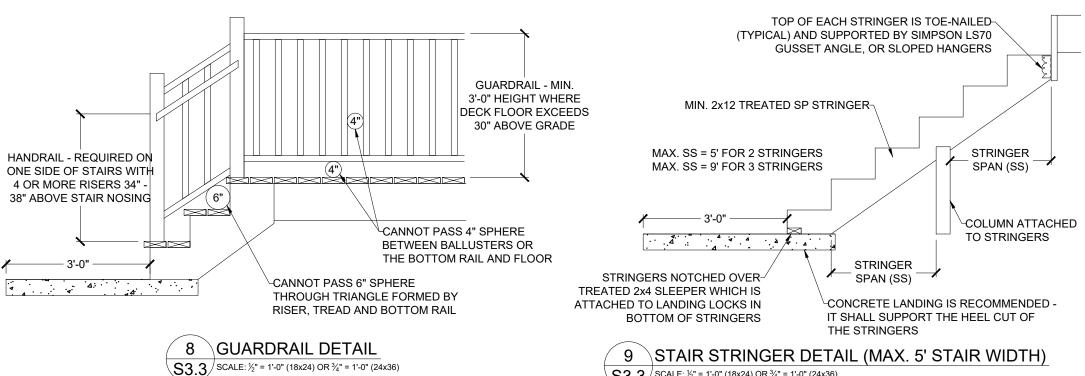
# 4x4 GUARDRAIL POST-4x4 GUARDRAIL POST-3'-0" 2x FRAMING PER PLAN-2x JOISTS PER PLAN-2x JOIST-

6 \GUARDRAIL CONNECTION \$3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

2x BLOCKING-



**ALTERNATE COVERED DECK/PORCH INTERSECTION** S3.3/CORNER BEAM CONNECTION SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



3 DECK POST BASE S3.3 SCALE: 1" = 1'-0" (18x24) OR  $1\frac{1}{2}$ " = 1'-0" (24x36)

\$3.3 SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)



SPEC SUMMIT VIEW FARMS 3108 SW SUMMIT VIEW TR LEE'S SUMMIT, MISSOURI WALKER CUSTOM HOMES, LOCATION: JOB



