

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

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

Drawing Title:  
***WWS048 Spec***

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Site Description:  
***Lot 48,  
Whispering  
Woods 2nd Plat***

Street Address:  
***1604 SW 27th St., Lee's  
Summit, Missouri***

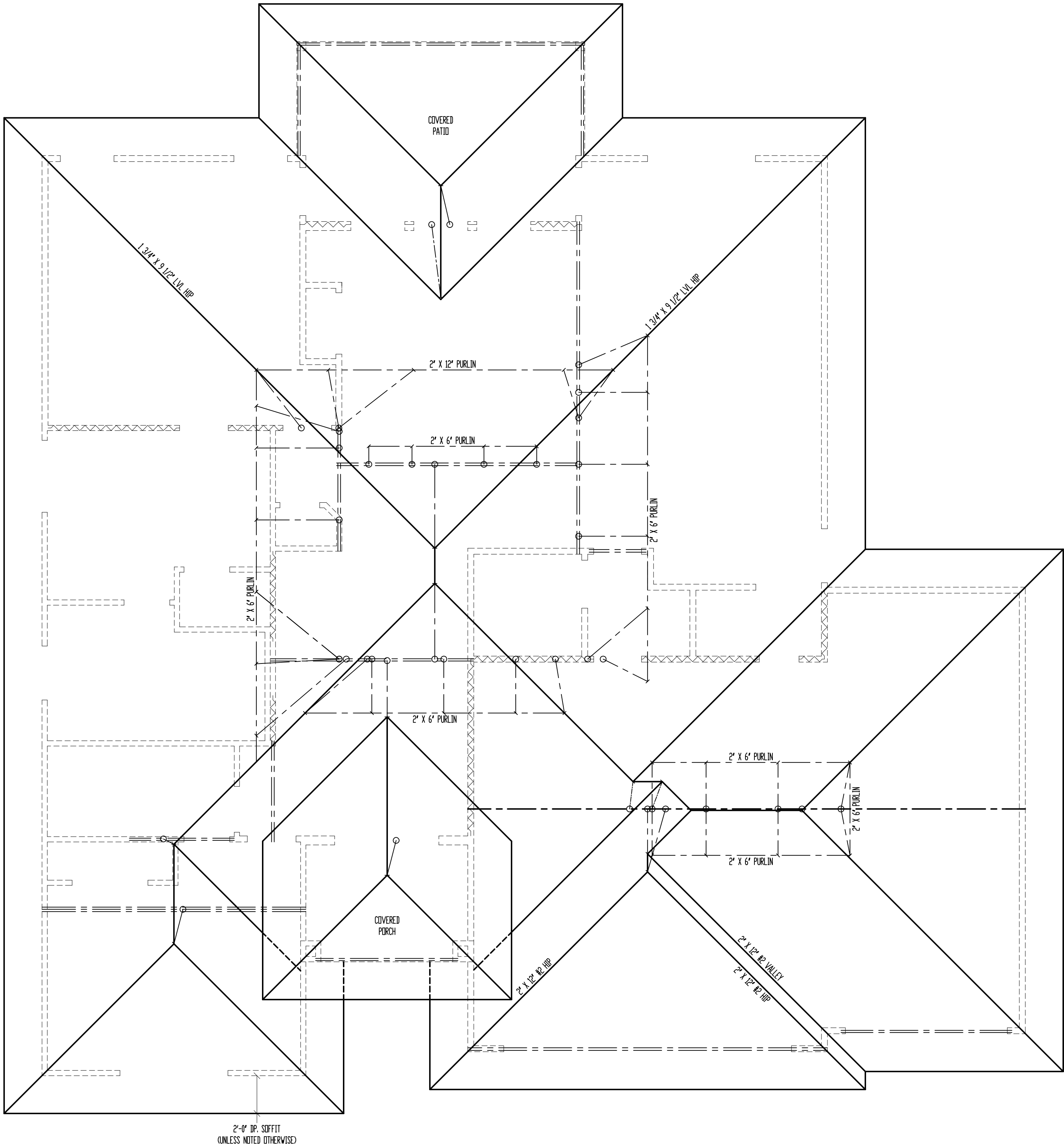
General Contractor:  
***Walker Custom  
Homes, LLC***



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Sheet Title:  
**ELEVATIONS**

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## ROOF

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

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

SEE DETAIL 7/532 FOR ALTERNATE RAFTER BEARING DETAIL WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE WALL DOUBLE TOP PLATE.

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

ROOF NOTES:  
ROOF DESIGNED FOR LIGHT ROOF COVERING  
30psf TOTAL LOAD (10psf DL, 20psf LL (SL))

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

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

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

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

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

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

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

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

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

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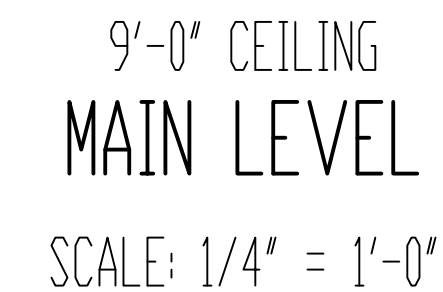


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**ROOF PLAN**

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MAIN LEVEL: 1629 SQ. FT.  
LOWER LEVEL: 784 SQ. FT.  
 TOTAL: 2413 SQ. FT.

GARAGE: 704 SQ. FT.  
UNFIN. BASEMENT: 641 SQ. FT.  
COV. OUT/LIV: 55 SQ. FT.

+++++ = WALL BRACING PER FRAMING NOTE  
#1 AND PER CALCULATIONS ON SHEET S1.1.

**Framing Notes**

1. MAIN LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16" OSB. 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 V OR S IRONWALL 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 4" HD 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 JUST 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. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH IF/OF GRADE 2x4-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:
  - (1) 3/4" LVL. PLIES = 3 1/2" GLULAM
  - (2) 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.

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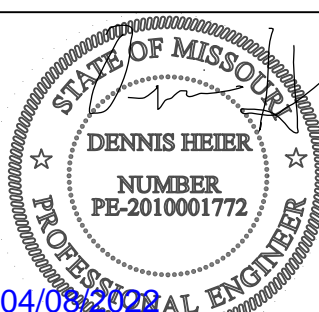
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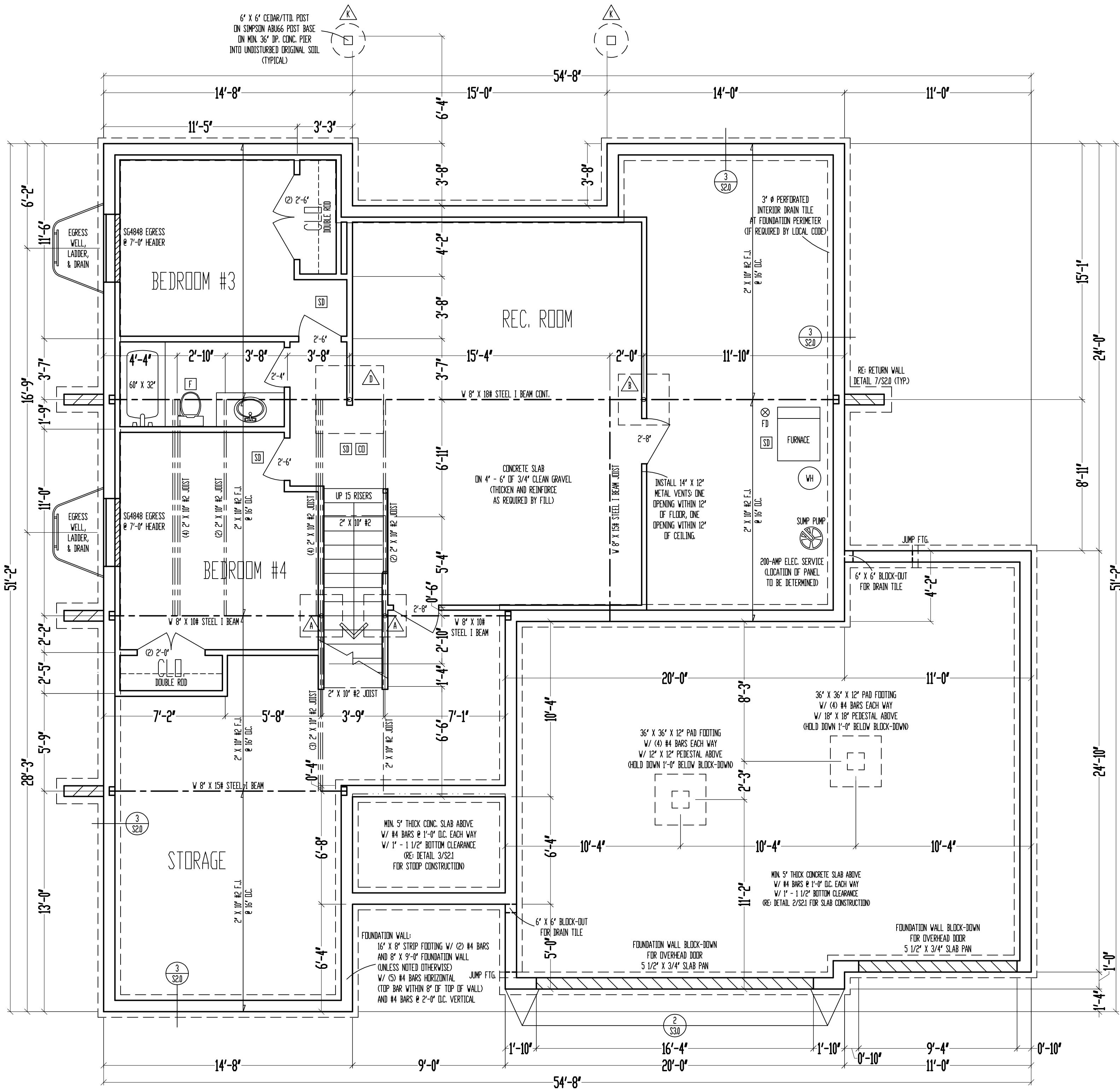
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**MAIN LEVEL  
PLAN**

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

FRAMING NOTES

- BASEMENT LEVEL EXTERIOR WOOD-FRAMED 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.
- ===== = G.B.: 1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ NDL 6 - 1 1/4" TYPE W OR S DRYWALL SCREWS @ 7" O.C. EDGES & FIELD. (MIN. 8'-0" SECTIONS ONE SIDE OF WALL (OR) MIN. 4'-0" SECTION FOR BOTH SIDES)
- ^/^^/^^/^^/^^/^^/^^/^^ = LOAD BEARING INTERIOR WALL.
- (2) 2" X 10" #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
- LOW TIES @ 4'-0" O.C. (TYPICAL)
- RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS.
- BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS).
- PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS.
- ALL DESIGNATED 2" X 6" WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW OPENINGS.
- ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE.
- ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2" X 4"S @ 16" O.C., UNLESS NOTED OTHERWISE.
- 1/2" Ø ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" O.C. MAX. & WITHIN 6" - 12" OF END OF EACH PLATE LENGTH.
- LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:  
(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM  
(3) 1 3/4" LVL PLIES = 5 1/2" GLULAM
- NEW FOUNDATION SHALL BEAR ON ORIGINAL SOIL WITH MINIMUM BEARING CAPACITY OF 1500 PSF. A GEOTECHNICAL ENGINEER IS RECOMMENDED FOR VERIFICATION OF THESE CONDITIONS DURING THE EXCAVATION PHASE. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANYTHING SHORT OF THE AFOREMENTIONED REQUIREMENTS.
- 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 ABOVE 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 (12.5K)
B	3 1/2" X 11 GA. STEEL COLUMN DN 36" X 36" X 10" PAD FOOTING W/ (4) #4 BARS EACH WAY (18.0K)
C	3" SCH. 40 STEEL COLUMN DN 42" X 42" X 12" PAD FOOTING W/ (5) #4 BARS EACH WAY (24.5K)
D	3 1/2" SCH. 40 STEEL COLUMN DN 48" X 48" X 12" PAD FOOTING W/ (6) #4 BARS EACH WAY (32.0K)
E	3 1/2" SCH. 40 STEEL COLUMN DN 54" X 54" X 14" PAD FOOTING W/ (7) #4 BARS EACH WAY (40.5K)
F	3 1/2" SCH. 40 STEEL COLUMN DN 60" X 60" X 14" PAD FOOTING W/ (8) #4 BARS EACH WAY (50.0K)

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

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

STATE OF MISSOURI  
DENNIS HEIER  
NUMBER PE-2010001772  
PROFESSIONAL ENGINEER  
04/08/2022

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Sheet Title:  
**FOUNDATION PLAN**

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