

## NOTE:

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

## FOUNDATION NOTES:

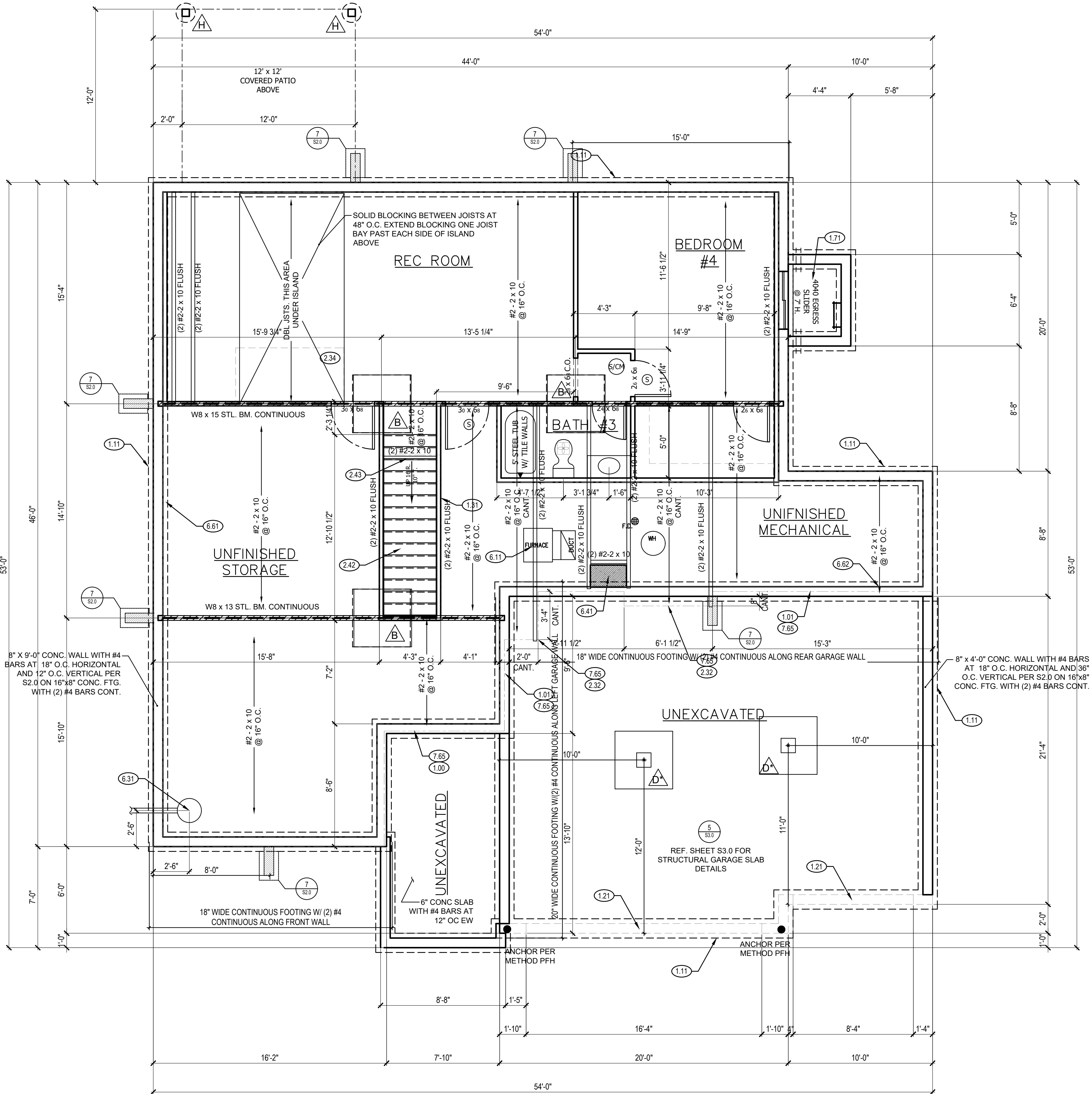
ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".  
SOIL BEARING CAPACITY SHALL BE 2000 PSF.  
COMPRESSIVE STRENGTH OF CONCRETE F'C COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2. REQUIRED AIR ENTRAINMENT SHALL BE 5-7%.  
ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. DAMPPROOFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR WATERPROOFING SHALL BE A MINIMUM 6-MIL THICK MOISTURE BARRIER OVER POROUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS SHALL BE A MINIMUM 6".  
FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC SECTION R406.  
FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH WITH IRC SECTION R405.  
BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION R310.1  
ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.  
ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 6" O.C. AND BE EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS SUFFICIENT STRENGTH OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY BACKFILL.

STEEL BEAM FLANGE WIDTH:  
W8 x 13- 4"  
W8X15 - 4.015"

LOWER LEVEL FINISH: +749 SQ FT



## ISOLATED FOOTINGS AND COLUMN PADS

SYM	PIER PAD SIZE	DEPTH	MINIMUM REINFORCEMENT GRADE 40 KSI STEEL	SCHEDULE 40 STEEL COLUMN, MIN F <sub>y</sub> = 36KSI
A	30"x30"	1'-0"	(5) #4 BAR E.W.	3" DIAMETER
B	36"x36"	1'-0"	(6) #4 BAR E.W.	3" DIAMETER
C	42"x42"	1'-2"	(7) #4 BAR E.W.	3" DIAMETER
D	48"x48"	1'-4"	(8) #4 BAR E.W.	3" DIAMETER
E	48"x48"	1'-4"	(8) #4 BAR E.W.	N/A
F	54"x54"	1'-4"	(9) #4 BAR E.W.	3.5" DIAMETER
F	60"x60"	1'-6"	(10) #4 BAR E.W.	3.5" DIAMETER

## ISOLATED FOOTINGS AND COLUMN PADS

SYM	PIER DIAMETER	DEPTH	MINIMUM REINFORCEMENT GRADE 40 KSI STEEL
G	12"	3'-0"	(4) VERTICAL #4
H	16"	3'-0"	(4) VERTICAL #4
J	18"	3'-0"	(4) VERTICAL #4
K	24"	3'-0"	(4) VERTICAL #4
L	28"	3'-0"	(4) VERTICAL #4

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'.  
COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.

## FOUNDATION PLAN NOTES

- 1.00 HOLD SILL PLATE BACK 2"
- 1.01 HOLD SILL PLATE BACK 4"
- 1.11 CONTINUOUS CONCRETE FOOTING
- 1.21 RECESS TOP OF FOUNDATION WALL
- 1.31 2X4 STUD WALL WITH TREATED SILL PLATE
- 1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.
- 2.32 INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING
- 2.34 PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE
- 2.42 FIRE RATED SHEETROCK UNDER STAIRS
- 2.43 VERIFY 6'-8" HEADROOM CLEARANCE. CLIP FLOOR ABOVE IF REQUIRED. PULL FLOOR JOIST HEADER BACK AS NECESSARY TO ALLOW REQUIRED HEADROOM
- 5.51 DRAIN LINE ONLY FOR FUTURE USE. LOCATION TO BE MARKED WITH REBAR AND CUT FLUSH TO FLOOR FINISH.
- 6.11 DIRECT FURNACE, FUEL BURNING APPLIANCES SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION AIR.
- 6.21 HOT WATER HEATER WITH THERMAL EXPANSION CONTROL DEVICE
- 6.31 SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.
- 6.41 HVAC CHASE ABOVE
- 6.61 200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE.
- 6.62 UFER GROUND- VERIFY LOCATION WITH PROJECT MANAGER.
- 7.65 LINE OF FLOOR ABOVE

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
CODES ADMINISTRATION  
LEE'S SUMMIT, MISSOURI

BY \_\_\_\_\_  
DATE \_\_\_\_\_

## GENERAL NOTES

BACK WATER VALVES REQUIRED ON ALL BASEMENT PLUMBING FIXTURES. PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION.

ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR MASONRY SHALL BE OF DECAY-RESISTANT MATERIALS.

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C.

SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.

WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARD. EX: 30S0SH= 3'-0" X 5'-0" SINGLE HUNG, 3066FIX= 3'-0" X 6'-6" FIXED.

CPG DBA



120 SE 30TH ST.  
LEE'S SUMMIT, MO 64082  
816-246-6700

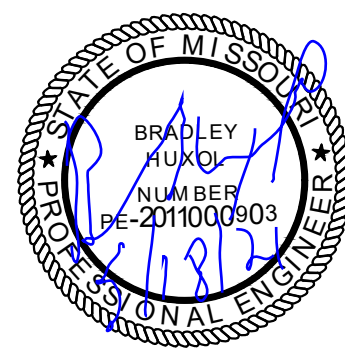
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CARBONDALE  
OLD WORLD  
WOODSIDE RIDGE #1

## PROFESSIONAL SEAL:



RESIDENTIAL ENGINEERING SERVICES, LLC IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS.

RESIDENTIAL ENGINEERING SERVICES, LLC  
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816-399-4901

DRAWN BY:  
S. SCARBO

ISSUE DATE:  
11.3.20

SHEET NUMBER:

A3.0

FOUNDATION PLAN 1

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