

1. DESIGN SOIL BEARING PRESSURE: 1500 PSF.
2. EXPANSIVE SOILS: WHERE DIRECTED BY THE SOILS ENGINEER, SOIL AUGMENTATION FOR THE SOILS ENGINEER'S SPECIFICATIONS SHALL BE IMPLEMENTED PRIOR TO PLACING ANY FOUNDATIONS - TESTS AS SPECIFIED SHALL BE PERFORMED TO DETERMINE THE SUITABILITY OF THE SUB-GRADE TO SUPPORT THE DESIGN LOADS.
3. CLEAN SAND FILL OVER STRIPPED AND COMPACTED EXISTING GD. SHALL BE PLACED IN 12" LIFTS. BOTH SUB-SOIL AND FILL COMPACTION SHALL BE NOT LESS THAN 98% AS MEASURED BY A MODIFIED PROCTOR TEST AT THE RATE OF ONE TEST FOR EACH 1500 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.
4. REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE REQUIREMENTS OF ASTM A615, ALL BENDS SHALL BE MADE COLD.
5. WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A185 - MIN. YIELD STRESS = 85 KSI.

6. CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD FUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.
7. CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - Fm = 1500 PSI.
8. MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.
9. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH. BOLTS SHALL BE ASTM A307 / GRADE I OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.
11. 2X4 P/T WOOD SILL, CONT., ALL AROUND, W/ 5/8"-A.B. W/ 3" SQ. X 1/4" PLATE WASHERS WITHIN 12"-6" FROM EACH CORNER, EA. WAY, & WITHIN 8"-12" FROM ALL WALL OPENINGS / ENDS - 1/2" - A.B. W/ 2" SQ. WASHERS ALONG EACH END & 48" O.C., MAX. - ALL ANCHOR BOLTS SHALL HAVE A MINIMUM OF 8" EMBEDMENT INTO THE CONCRETE.

Diagram illustrating the cross-section of a concrete beam and footing, showing reinforcement details and dimensions:

- Top Reinforcement:** #5 ELLS $\times 16'' \times 16''$ @ 48" O.C. MAX.
- Beam Bond:** 3" CMU BOND BEAM W/ #5 BAR CONT/25" MIN. LAP
- Wall Reinforcement:** #5 DOWELS @ 48" O.C. MAX.
- Footing:** 2500 PSI CONC. FOOTING
- Bottom Reinforcement:** 2-#5 BARS CONTINUOUS ON WIRE OR PLASTIC CHAIRS
- Dimensions:**
 - Overall height: 10"
 - Overall width: 20"
 - Top section width: 18"
 - Bottom section width: 7" (left), 6" (center), 7" (right)
 - Wall thickness: 8" CMU
 - Beam width: 6"
 - Beam height: 3"

SCALE: 3/4" = 1'-0"

1.5"

#5 ELLS $\times 18" \times 18"$
 $\phi 48"$ O.C. MAX.

18"

8" CMU

6"

#5 DOWELS $\phi 48"$ O.C. MAX.

24"

2500 PSI CONC.
 FOOTING

7" 6" 7"

20"

2 #5 BARS CONTINUOUS
 ON WIRE OR
 PLASTIC CHAIRS

SCALE: 3/4" = 1'-0"

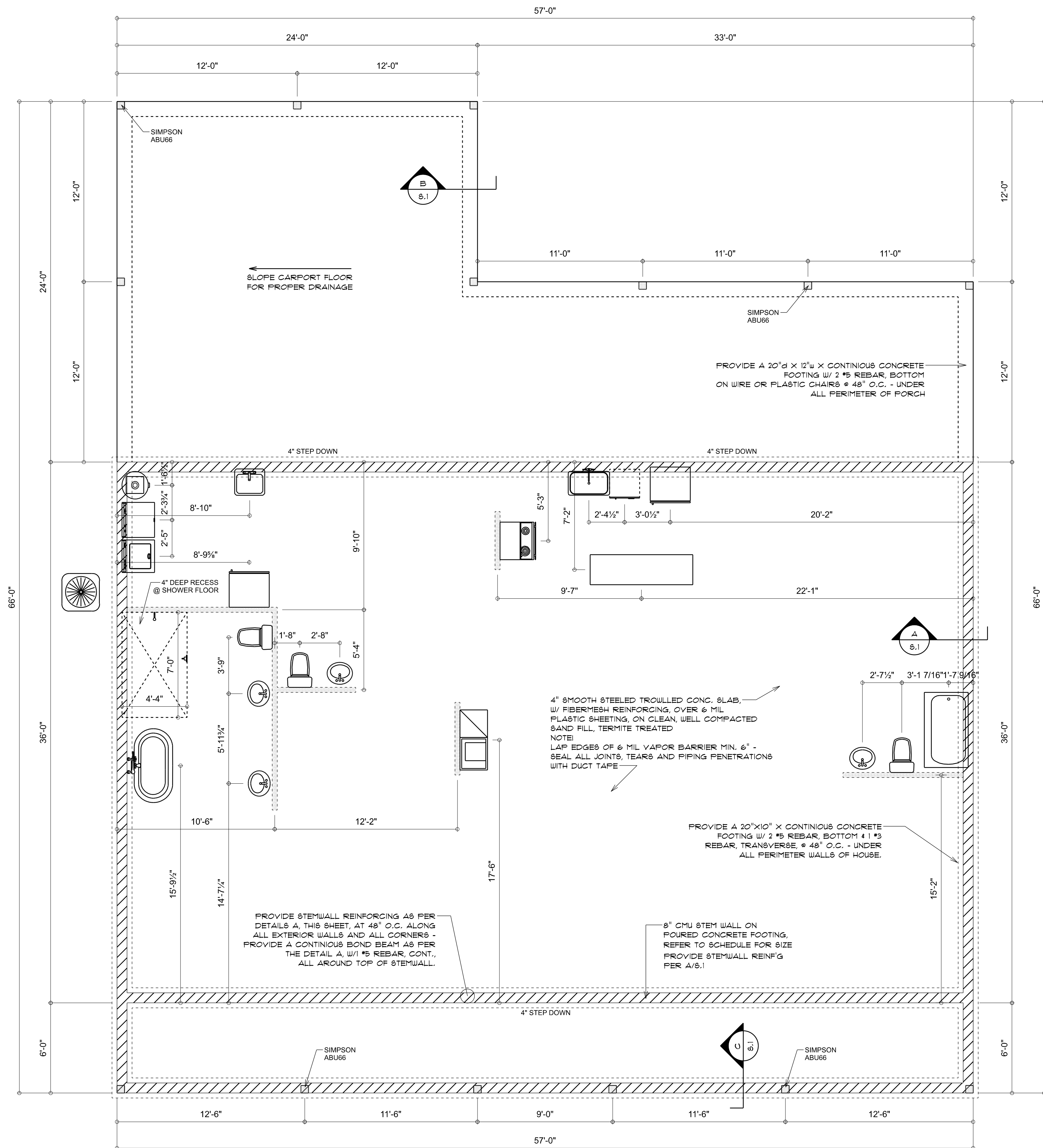
NOTE:
ADDED FILL SHALL BE APPLIED IN 8" LIFTS -
EA. LIFT SHALL BE COMPACTED TO 98% DRY
COMPACTION PER THE "MODIFIED PROCTOR"
METHOD.

NOTE:
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP
DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL
DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING
REPORT - CON'TR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS
TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

SCALE: not to scale

SCALE: 3/4" = 1'-0"

NOTE:
VERIFY INTERIOR BEARING WALLS WITH
TRUSS MANUFACTURE DRAWINGS! USE DETAIL
"B" THIS PAGE AT ALL INTERIOR BEARING LOC



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

REVISIONS
Aug. 5th, 2026

CUSTOM HOME FOR:
SESSONS RESIDENCE
COLUMBIA COUNTY, FLORIDA

N
**NICHOLAS PAUL
GEISLER
ARCHITECT**

SHEET NUMBER

S.1

OF 4 SHEETS

Nicholas P. Geisler

Digitally signed
by Nicholas P
Geisler
Date: 2026.08.10
10:36:35 -04'00'

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