

INDEX OF DRAWINGS

UPLIFT CONNECTORS

1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCATION OF THESE WALLS.

1. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED W/ 1/2" DIA. EPOXY ANCHORS WITH 6" EMBEDMENT. SIMPSON "SET" EPOXY ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS. SEE PLAN FOR EMBEDMENT DEPTH AT FLOOR STEPS.

2. FOR MISSED VERT. DOWELS DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDMENT EPOXY (SIMPSON "SET",) MIXED PER MANUFACTURER'S INSTRUCTION. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL DURING BOND BEAM POUR.
3. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONCO FILLED CELL. EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONC. TO FOOTING)
4. MISSED LANT STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED WITH (1) SIMPSON MTSM16 TRUSS STRAP W/ (4) 3/4" X 1/8" TITENS TO MASONRY AND (7)-10 LADS TO TRUSS FOR UPLIFTS LESS THAN 860 LBS (USE (2) MTSM16 FOR UPLIFTS LESS THAN 1720#). NO MORE THAN 10 STRAPS MAY BE SUBSTITUTED OR NO MORE THAN 3 IN A ROW. IF GIRDER TRUSS CONNECTIONS ARE MISSED CONTACT ENGINEER OF RECORD FOR SUBSTITUTION.

SECTION R318 PROTECTION AGAINST TERMITES

TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOLI APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPLIED METHODS OF TERMITE PROTECTION. LABELS FOR USE OF SUBSTITUTIVE TREATMENT TO NEW CONSTRUCTION (SECTION 202) REGISTERED TERMITICIDES, UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE [NAME OF THE COMPANY] HAS BEEN LICENSED BY THE FLORIDA DEPARTMENT OF SUBSTANTIAL TERMITE TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

RADON:

WHERE PROJECT IS TO BE LOCATED IN KNOWN RADON GAS PREVALENT AREAS, APPENDIX "F" OF THE 2017 FLORIDA RESIDENTIAL BUILDING CODE IS TO BE IMPLEMENTED. CONCRETE STRENGTH IN THESE AREAS ARE TO BE A MINIMUM OF 3000 P.S.I.. THEREFORE, ANY AND ALL NOTES ON THESE PLANS THAT INDICATE 2500 PSI SHALL BE REPLACED WITH 3000 P.S.I. FOR THE CONCRETE STRENGTH.

PREFABRICATED WOOD TRUSSES

1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS.
2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL LUMBER PRODUCTS ASSOCIATION.
3. TRUSS MEMBERS AND JOINTS SHALL BE PROPORTIONED (WITHIN A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD.
4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS.
5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE FOLLOWING DESIGN LOADS:
6. DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION.
7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES. SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS, DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE CONNECTIONS, TRUSS LOADINGS, AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER, SUBMIT 2 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

SOIL BEARING VALUE:

ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 2000 PSF SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN. SOIL TO BE COMPACTED TO AT LEAST 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTM - D1557

[illegible]

INDEX OF DRAWINGS

CODES:	2020 FLORIDA BUILDING CODE RESIDENTIAL 2020 FLORIDA FIRE PREVENTION CODE 2020 FLORIDA ACCESSIBILITY CODE NEC NFPA 70 & FCEB ACI 318-19 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 301-19 SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS ACI 530-19 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION 2018 WOOD FRAMED CONSTRUCTION MANUAL APA PLYWOOD DESIGN SPECIFICATION ASCE/SEI 7-16 AMERICAN SOCIETY OF CIVIL ENGINEERS	
LIVE LOADS:	ROOF RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED BALCONIES STAIRS LIGHT PARTITIONS (DEAD LOAD), U.N.O.	20 PSF (REDUCIBLE) 40 PSF 60 PSF 40 PSF 20 PSF 10 PSF ATTIC L.L.
CONCRETE STRENGTH @ 28 DAYS	ALL CONCRETE UNLESS OTHERWISE INDICATED PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS)	2500 PSI 3000 PSI
REINFORCING:	WELDED WIRE FABRIC SHALL CONFORM TO ALL REINFORCING BARS ALL STIRRUPS AND TIES POLYPROPYLENE FIBERS FOR SLABS ON GRADE	ASTM A1064/A1064M ASTM A615-40 40,000 ASTM A615-40 40,000 MINIMUM 1.5 LBS. OF FIBERS PER CUBIC YD
CONCRETE UNITS:	ASTM C90-01, STANDARD WEIGHT UNITS, fm=1500 PSI MORTAR TYPE "S" 1800 PSI CONCRETE GROUT 3000 PSI CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION	
STRUCTURAL STEEL:	ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O SHOP AND FIELD WELDS: E70XX ELECTRODES ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307	
WOOD FRAMING:	BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O. NO. 2 SOUTHERN YELLOW PINE (19% M.C.) ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR, OR OSB FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24) WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB VERSA LAM BEAM Fb = 2900 PSI (2.0E) WOOD COLS. PARALLAM 2.0E U.N.O.	
WOOD ROOF TRUSSES:	DESIGN LOADS: TOP CHORD LIVE LOAD: TOP CHORD DEAD LOAD: BOTTOM CHORD DEAD LOAD: BOTTOM CHORD ATTIC LIVE LOAD:	SHINGLE ROOF: 20 PSF 10 PSF 10 PSF 40 PSF 10 PSF

SHT NO:

TITLE

- 1
- 2
- 3

COVER SHEET
FLOOR PLAN
ELEVATIONS
FOUNDATION PLAN
ELECTRICAL PLAN
TRUSS LAYOUT
DETAILS

S-1

**CONCRETE
STRENGTH
@ 28 DAYS**

REINFORCING:

WELDED WIRE FABRIC SHALL CONFORM TO	ASTM A1064/A1064M
ALL REINFORCING BARS	ASTM A615-40 40,000 PS
ALL STIRRUPS AND TIES	ASTM A615-40 40,000 PS
POLYPROPYLENE FIBERS FOR SLABS ON GRADE	MINIMUM 1.5 LBS. OF FIBER PER SQ. YD. OF SLAB

**CONCRETE
MASONRY
UNITS:**

ASTM C90-01, STANDARD WEIGHT UNITS, fm=1500 PSI
MORTAR TYPE "S" 1800 PSI
CONCRETE GROUT 3000 PSI
CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION

**STRUCTURAL
STEEL:**

ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.C.
SHOP AND FIELD WELDS: E70XX ELECTRODES
ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307

WOOD FRAM

BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O.
NO. 2 SOUTHERN YELLOW PINE (19% M.C.)
ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR, or OSB
FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24
WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB
VERSA LAM BEAM Fb = 2900 PSI (2.0E)
WOOD COLS. PARALL LAM 2.05 U.N.O.

WOOD ROOF TRUSSES:

DESIGN LOADS:	SHINGLE ROOF
TOP CHORD LIVE LOAD:	20 PSF
TOP CHORD DEAD LOAD:	10 PSF
BOTTOM CHORD DEAD LOAD:	<u>10 PSF</u>
	<u>40 PSF</u>

BOTTOM CHORD ATTIC LIVE LOAD: 10 PSF

SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS. DESIGN FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL DEAD LOAD.

WIND LOADING CRITERIA

WIND SPEED (ULTIMATE)	130 MPH
WIND SPEED (ALLOWABLE)	101 MPH
EXPOSURE CATEGORY	B
BUILDING CATEGORY	II
BUILDING TYPE	V
ENCLOSURE CLASSIFICATION	ENCLOSURE
INTERNAL PRESSURE COEFFICIENT	+/- 0.18

NOTICE TO BUILDER

**THIS DRAWING AND DESIGN IS VALID
FOR 12 MONTHS AFTER THE DATE IT
IS SIGNED AND SEALED OR WHILE
CURRENT CODE IS VALID**

IT IS THE INTENT OF THIS DESIGNER THAT THESE PLANS ARE ACCURATE AND ARE CLEAR ENOUGH FOR THE LICENSED PROFESSIONAL TO CONSTRUCT THIS PROJECT. IN THE EVENT THAT SOMETHING IS UNCLEAR OR NEEDS CLARIFICATION, STOP, AND CALL THE DESIGNER LISTED IN THIS TITLE PAGE. IT IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL THAT IS CONSTRUCTING THIS PROJECT TO FULLY REVIEW THESE DOCUMENTS BEFORE CONSTRUCTION BEGINS AND ANY AND ALL CORRECTIONS, IF REQUIRED, TO BE MADE BEFORE ANY WORK IS DONE.

*DO NOT SCALE DRAWINGS FOR CRITICAL DIMENSIONS (INSTAD CALL THE DESIGNER/JRSTFJ IN TITLE PAGE)

Residential Design

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tchdesigns@gmail.com

• CAD PLAN ENTRY
• PLAN REVISIONS
• CUSTOM DESIGNS

RANDOLPH WIGGINS, P.E.

Randolph Wiggins
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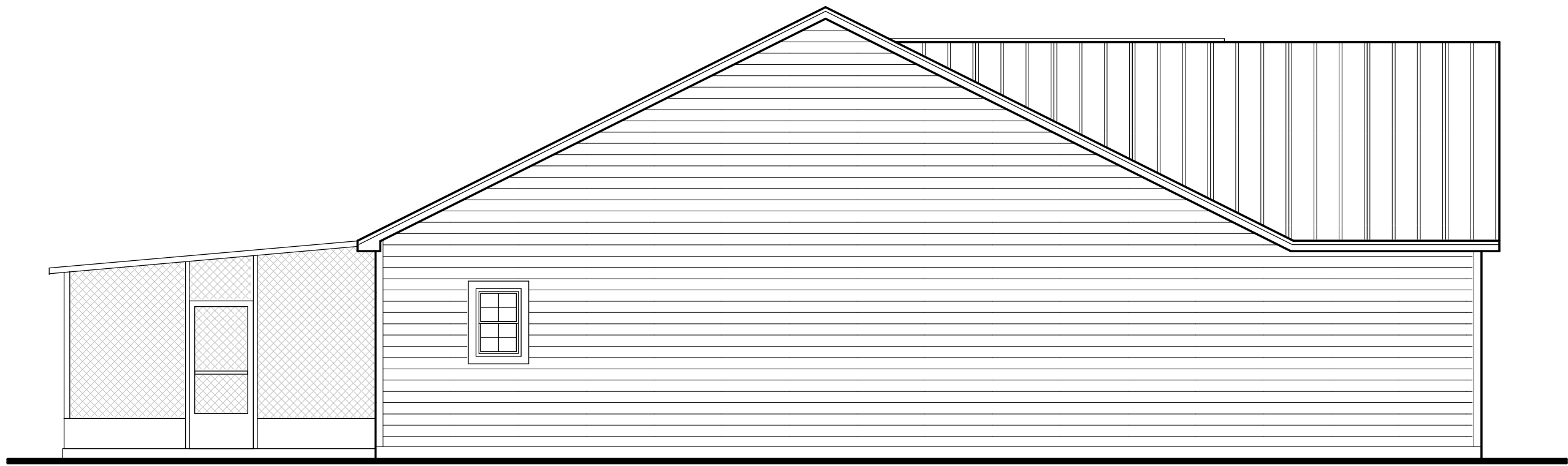
Building Homes, Building Relationships

PROJECT: Speicher Residence
Lot 37 Soxwood Sub
Ft White, FL
Columbia County

SHEET NO.

1
OF
4

LAST PLOT DATE: June 23, 2021



LEFT ELEVATION
SCALE: 3/16" = 1'-0"



RIGHT ELEVATION
SCALE: 3/16" = 1'-0"



REAR ELEVATION
SCALE: 3/16" = 1'-0"



FRONT ELEVATION
SCALE: 3/16" = 1'-0"

EXTERIOR WALL SHEATHING INFORMATION

NOTES:

1. ALL EXTERIOR WALL SHEATHING TO BE MIN. 7/16" WINDSTORM OR EQ. MFG. APPROPRIATE LENGTH SUB-SIDING
2. ALL WALL SECTIONS GREATER THAN 30% OF WALL HEIGHT AND WITH OPENING AREA LESS THAN 1 S.F. TO BE CONSIDERED SHEAR WALL SEGMENT
3. NAILING PATTERN:

TOP PLATE:	8d@3" O.C.
LONG EDGE:	8d@6" O.C.
FIELD:	8d@12" O.C.
BOTTOM PLATE:	8d@3" O.C.

WALL LEGEND

FRAMED WALL
FRAMED SHEAR WALL
BEARING WALL
FRAMED WALL W/ SIDING

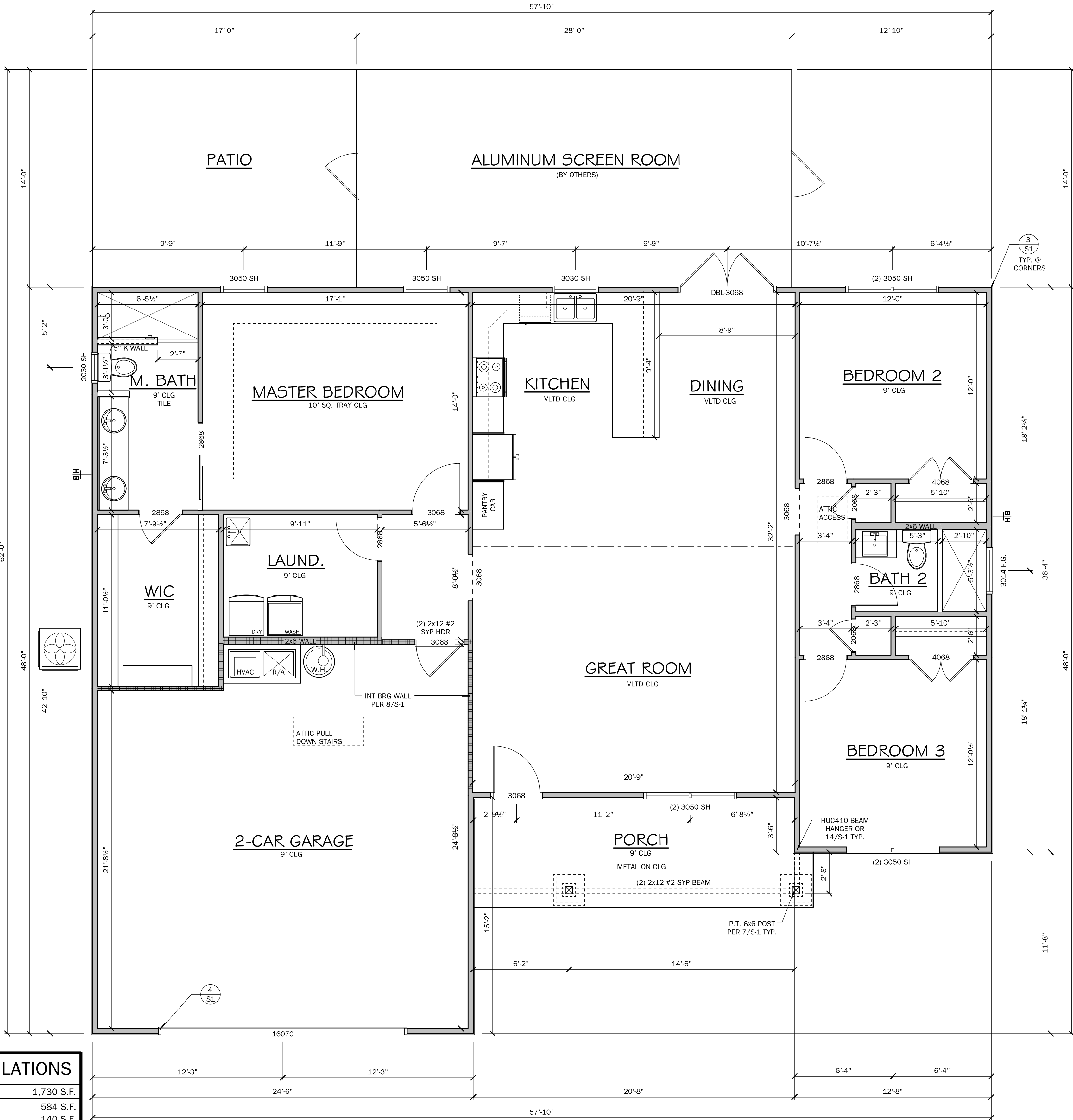
VENTILATION CALCULATION

NOTE: SOFFITS ARE TO BE PERFORATED AND THE NET FREE SQUARE INCHES SHALL MEET OR EXCEED THE CALCULATED AMOUNT OF VENTILATION REQUIRED

FORMULA PER FRBC 2020 SEC 806.2= S.F. / 300 (1/300) / 2 (INTAKE vs EXHAUST) * 144 (TO CONVERT TO SQ. INCHES) = NET SQ. INCH REQUIREMENT

2454/300 = 8.1 / 2 = 4 * 144 = 576

576 SQ. INCHES OF VENTILATION REQUIRED



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

AREA CALCULATIONS	
TOTAL LIVING	1,730 S.F.
GARAGE	584 S.F.
ENTRY PORCH	140 S.F.
ALUMINUM SCREEN PORCH	392 S.F.
TOTAL AREA UNDER ROOF	2,846 S.F.

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Wade

WADE

CUSTOM HOMES

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

Randolph Wiggins
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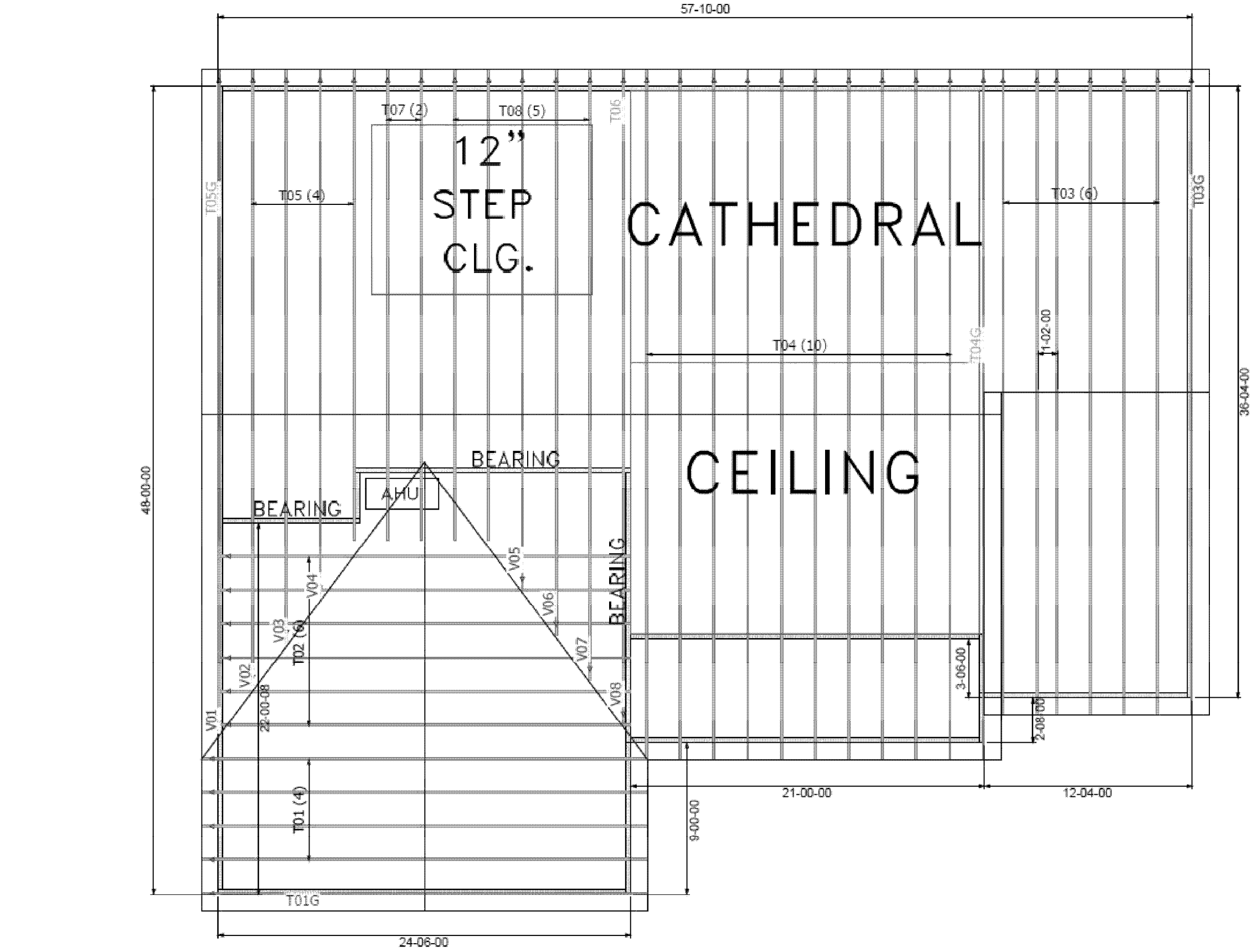
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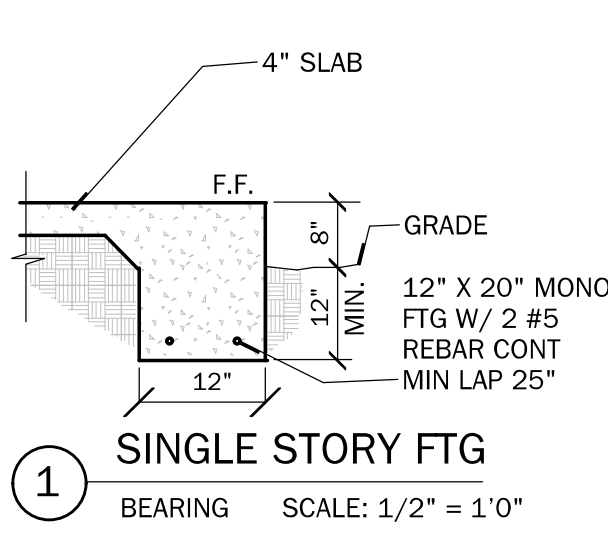
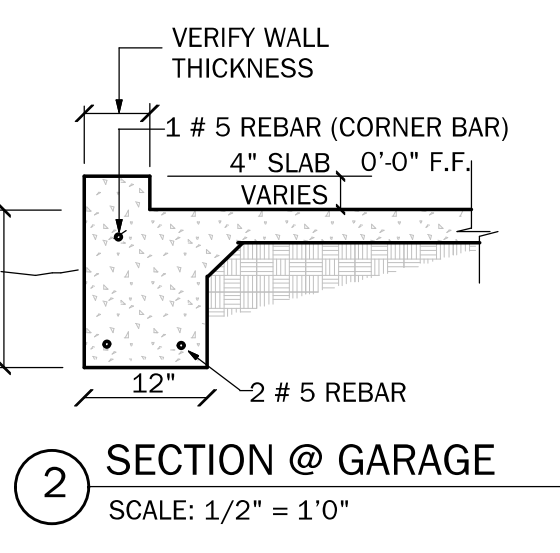
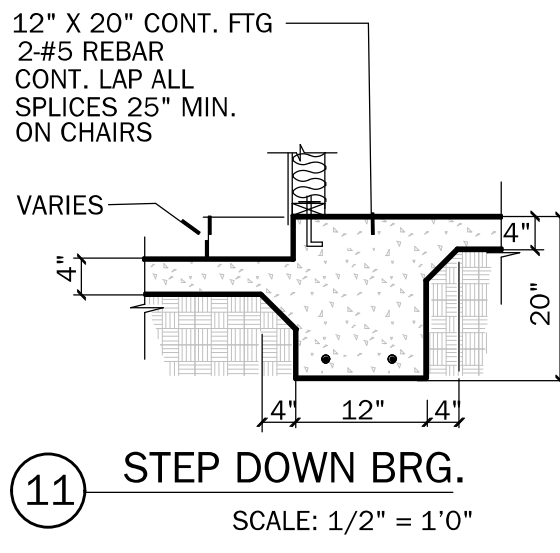
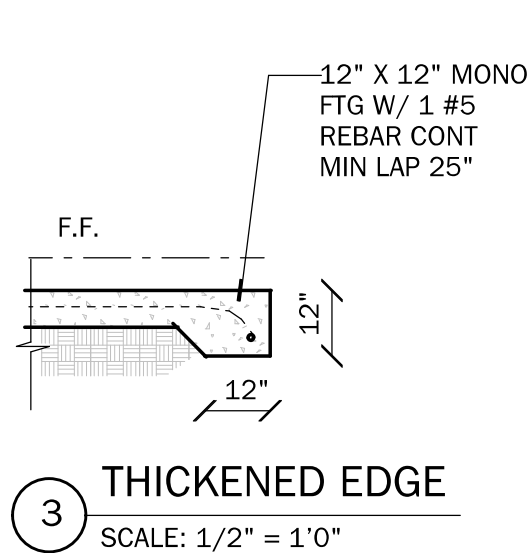
PROJECT:
Speicher Residence
Lot 37 Soxwood Sub
Ft White, FL
Columbia County

SHEET NO.
2
OF
4

LAST PLOT DATE: June 23, 2021 10:12 AM



MARK	HOLD DOWN ANALYSIS	UPLIFT
	UNLESS NOTED OTHERWISE PROVIDE APPROPRIATE CONNECTOR PER CHART AND PROVIDED TRUSS ENGINEERING	
	WOOD CONNECTIONS =	
	H2.5 W/ 10-8d NAILS	365#
	H1 W/ 10-8d NAILS	400#
	H10 W/ 16-8d NAILS OR	850#
	MTS12 W/ 14-10dX1-1/2" NAILS	
	HCP (HIP TRUSS) 12-10dX1-1/2" NAILS	645#
A	2 - MTS12 W/ 14 10dX1 1/2" NAILS	1720 #U
B	2 - HTS20 W/ 20 - 10d	2900 #U
C	HCP2 W/ 12-10d X 1 1/2" NAILS	520 #U
D	LGT2 W/30-16d SINKERS	1785 #U



ELECTRICAL LEGEND

1 SINGLE POLE SWITCH

2 DOUBLE POLE SWITCH

3 THREE-WAY SWITCH

4 FOUR-WAY SWITCH

5 DIMMER SWITCH

6 CEILING FIXTURE

7 SOUNDCUE (WALL MOUNTED) FIXTURE

8 110 VOLT DUPLEX OUTLET

9 110 VOLT SPLIT SWITCHED OUTLET

10 GROUND FAULT INTERRUPT

11 WATER-PROOF W/ GROUND FAULT

12 220 VOLT OUTLET

13 SPECIAL SERVICES OUTLET

14 T.V. CABLE OUTLET

15 TELEPHONE CABLE OUTLET

16 5\"/>

16 CARBON MONOXIDE DETECTOR

17 SMOKE DETECTOR

18 FLOOD LIGHT

19 L.E.D. STRIP LIGHT

20 CEILING FAN

21 DOOR BELL CHIMES

22 DOOR BELL

23 DISPOSAL

24 DISCONNECT SWITCH

25 PREWIRE SPEAKER

26 JUNCTION BOX

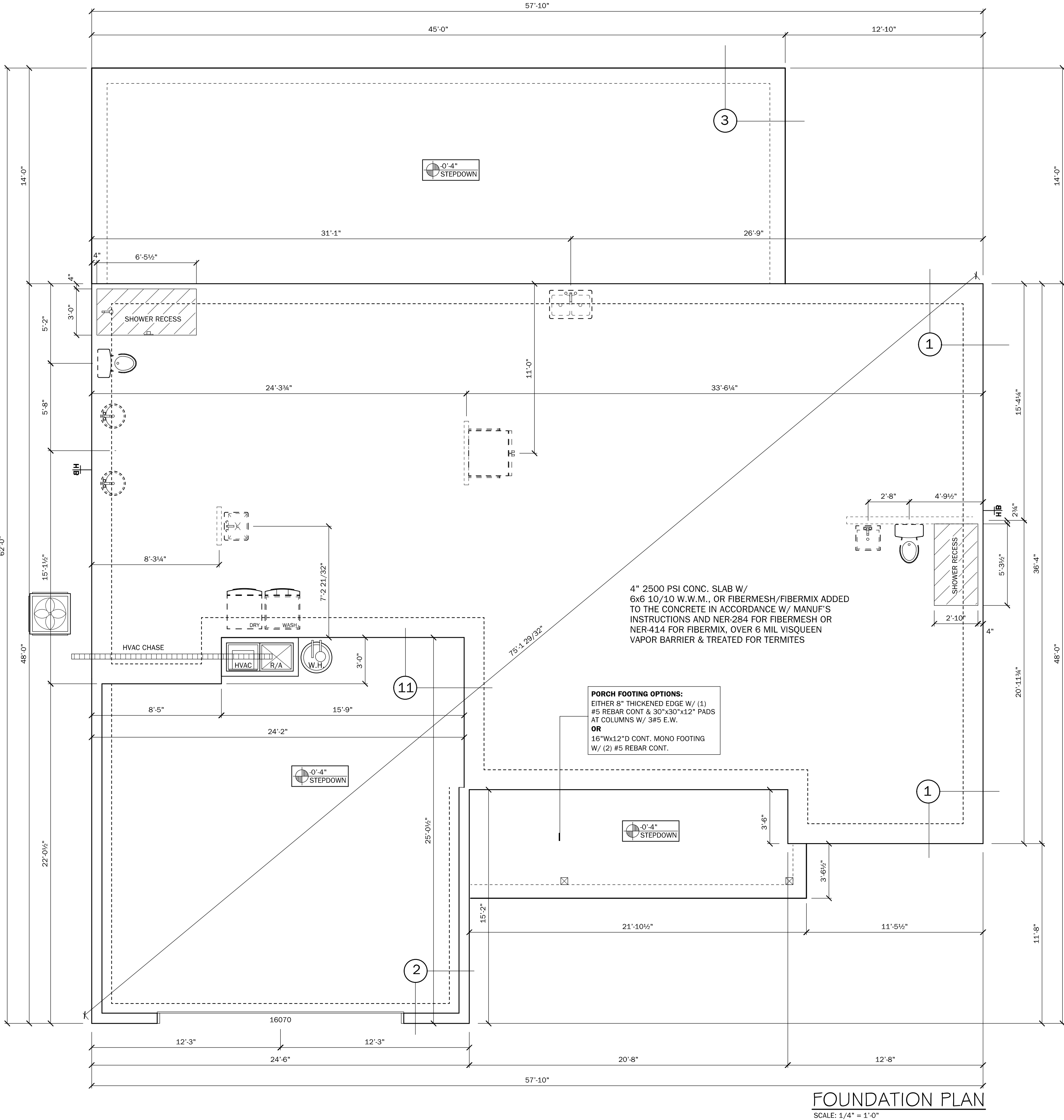
27 RECESSED LIGHTING

28 5\"/>

NOTES:

UNLESS OTHERWISE NOTED

1. ELECTRICAL OUTLET HEIGHTS AS MEASURED FROM FINISHED FLOOR TO CENTERED LINE OF THE BOX TO BE 12\"/>



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WADE CUSTOM HOMES

LAST PLOT DATE: June 23, 2021 10:14 AM

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PLAN

13