

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", EPOXY), 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 FULL STRENGTH BEFORE TRUSS INSTALLATION. THEN, FILL THE CELL IN THE NORMAL WAY 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 ULT 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 SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE A PREVENTIVE MEASURE. A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED 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 BUILDING HAS BEEN TREATED FOR TERMITES IN ACCORDANCE WITH THE DEFINITION OF SUBTERANEAN 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 FOREST PRODUCTS ASSOCIATION.
3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED (WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 20%) 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 PTI 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 AND DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND PERMANENT BRACING AND/OR BRACING 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 & FBCEB 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 PSI ASTM A615-40 40,000 PSI MINIMUM 1.5 LBS. OF FIBERS PER CUBIC YARD
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.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
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.		

SHT NO:	TITLE
1	COVER SHEET
2	FLOOR PLAN
	ELEVATIONS
3	FOUNDATION PLAN
	ELECTRICAL PLAN
	TRUSS LAYOUT
S-1	DETAILS

Residential Design

1431 E. Wade Street
Trenton, FL 32693
352-274-3006
tchdesigns@gmail.com

- CAD PLANS
- PLAN REVISIONS
- CUSTOMER SERVICE



RANDOLPH WIGGINS, P.E.
431 E. Wade Street, Suite B Trenton, FL 32693
STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE
TOWN OF TRENTO'S RESIDENTIAL BUILDING CODE
SIGNATURE/SEAL ON ANY SHEET IS VALID ONLY
FOR THE STRUCTURAL DESIGN

RANDOLPH WIGGINS, P.E. FL # 15721

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Building Homes,
Building Relationships

1431 E. Wade St.
Trenton, NJ 08611
609-981-3785
CRCC1331070

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

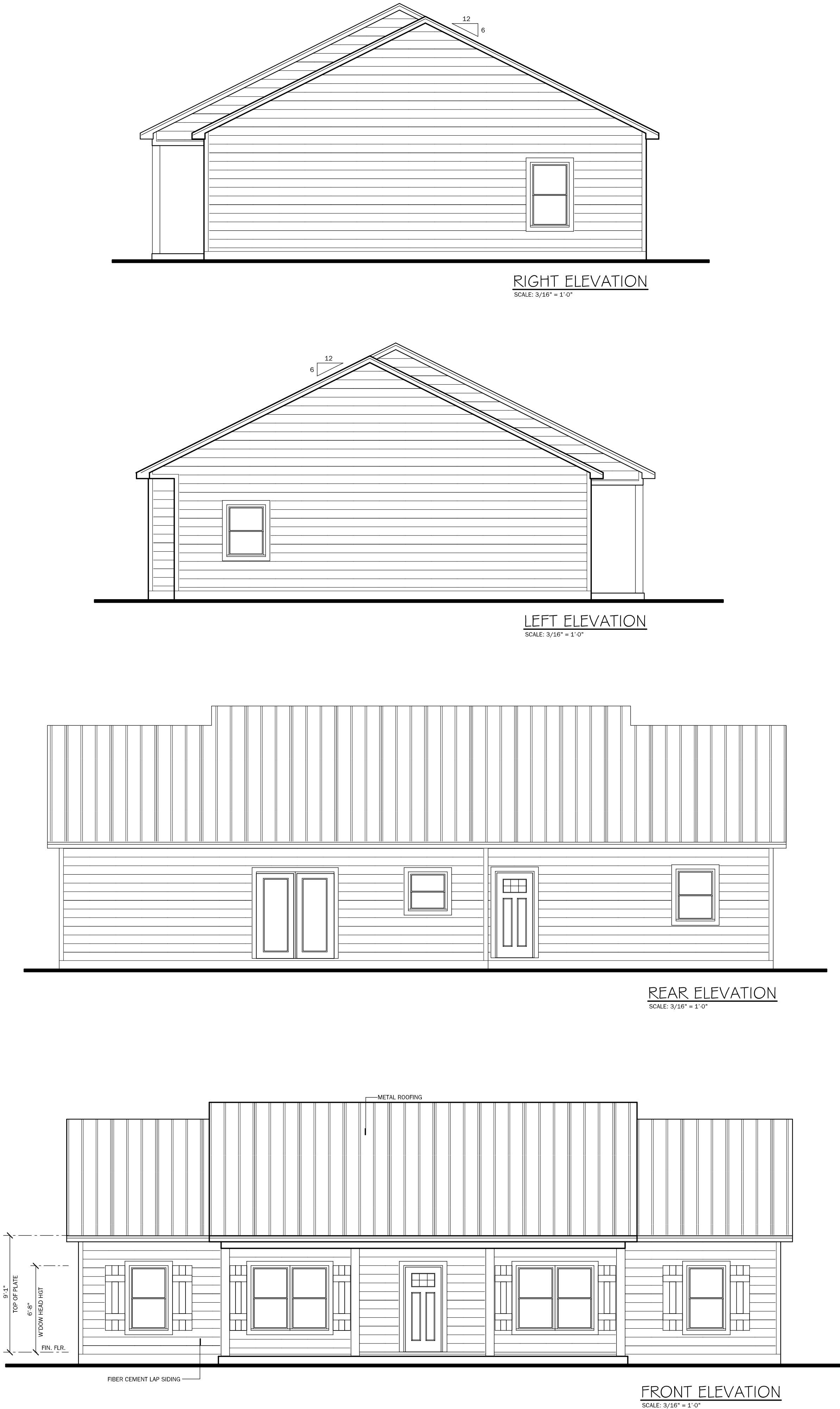
**THIS DRAWING AND DESIGN IS VALID
FOR 12 MONTHS AFTER THE DATE IT
IS SIGNED AND SEALED OR WHILE
CURRENT CODE IS VALID**

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 FULFILL ALL THE REQUIREMENTS BEFORE CONSTRUCTION BEGINS AND ANY AND ALL CORRECTIONS, IF NEEDED, TO BE MADE BEFORE ANY WORK IS DONE.

DO NOT SCALE DRAWINGS FOR CRITICAL DIMENSIONS. INSTEAD CALL THE DESIGNER LISTED IN TITLE PAGE

PROJECT: **Wright
319 S
Ft Wh
Column**

SHEET NO. **1
OF
4**

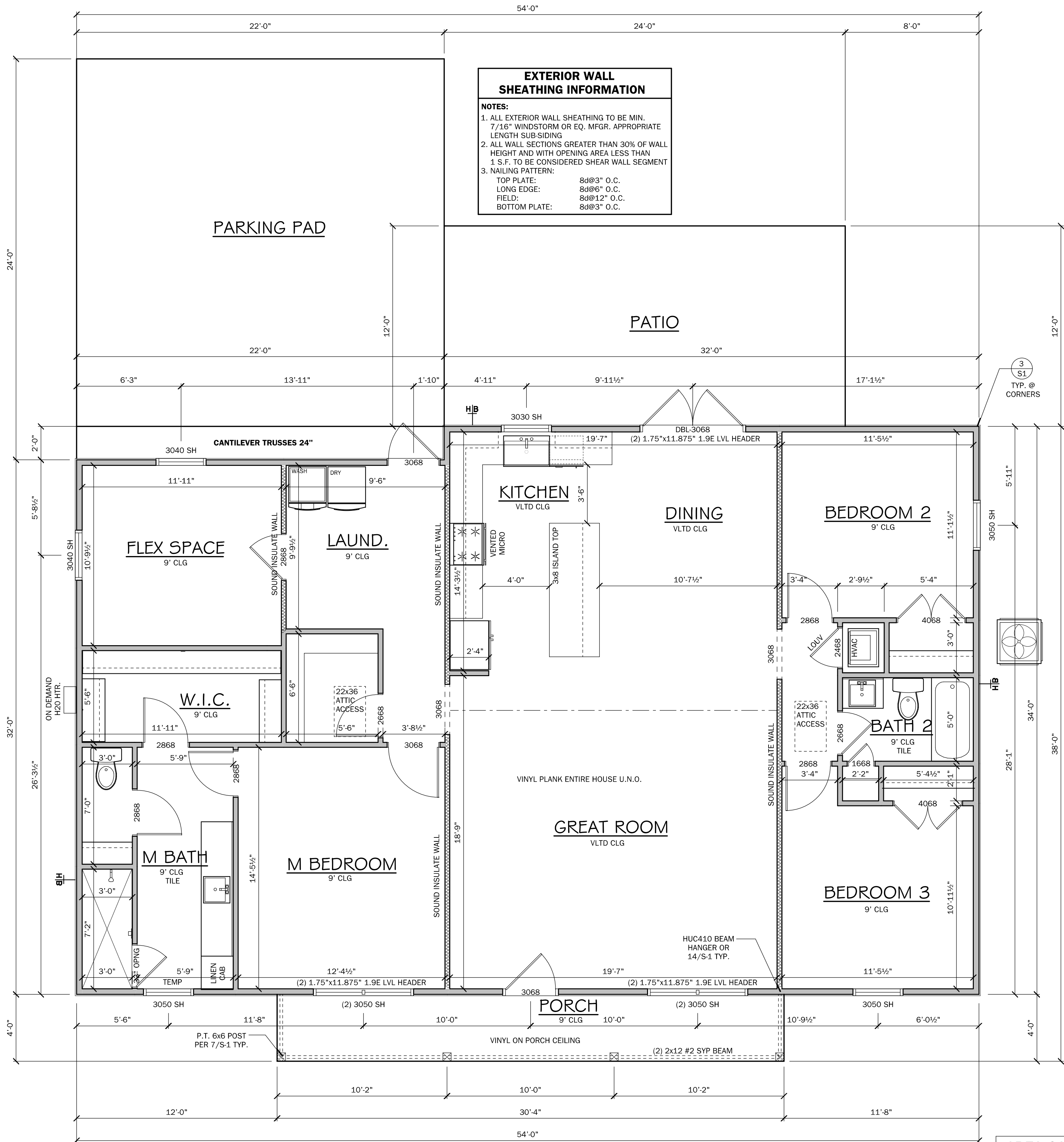


RIGHT ELEVATION
SCALE: 3/16" = 1'-0"

LEFT 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.

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

AREA CALCULATIONS	
TOTAL LIVING	1,792 S.F.
FRONT PORCH	121 S.F.
TOTAL AREA UNDER ROOF	1,913 S.F.

- NOTE:
1. ALL WINDOWS WITHIN 2'-0" OF DOORS AND IN SHOWER OR TUB AREAS WILL BE SAFETY TEMPERED GLASS.
 2. ALL DOORS LEADING FROM UNCONDITIONED SPACE TO CONDITIONED SPACE SHALL BE SOLID CORE.
 3. CEILING FOR EXTERIOR ENTRIES AND COVERED PORCHES TO HAVE 7/16" SPAN RATED OSB NAILED PER ZONE ON ROOF DIAPHRAGM NAILING SCHEDULE ON SHEET S-1 OR EXTERIOR GYPSUM SOFFIT BOARD INSTALLED PER GA-216

WALL LEGEND

FRAMED WALL

FRAMED SHEAR WALL

BEARING WALL

FRAMED WALL W/ SIDING

VENTILATION CALCULATION

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

1913/300 = 6.4 /2 =3.2* 144 = 461

461 SQ. INCHES OF VENTILATION REQUIRED

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

Residential Design

1431 E. Wade Street
Trenton, FL 32693
352-274-3006
tchdesigns@gmail.com | <CUSTOM DESIGNS

RA **BD**

RANDOLPH WIGGINS, P.E.

1431 E. Wade Street, Suite B Trenton, FL 32693

STRUCTURAL DESIGNER IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND THE FLORIDA ENGINEERING BOARD (FEB) REQUIREMENTS FOR THE STRUCTURAL DESIGN

RANDOLPH WIGGINS, P.E., F.E., F.S.E., F.S.E.

DAYTON, OH 45424

Randolph Wiggins

2022.05.02

15:37:22 -04'00'

Building Homes, Building Relationships

1431 E. Wade St.
Trenton, FL 32693
352-949-3785
CRC1331070
www.wadecustomhomes.com

PROJECT:

Wright Residence

319 SW Healan Ct

Ft White, FL

Columbia County

LAST PLOT DATE: May 02, 2022

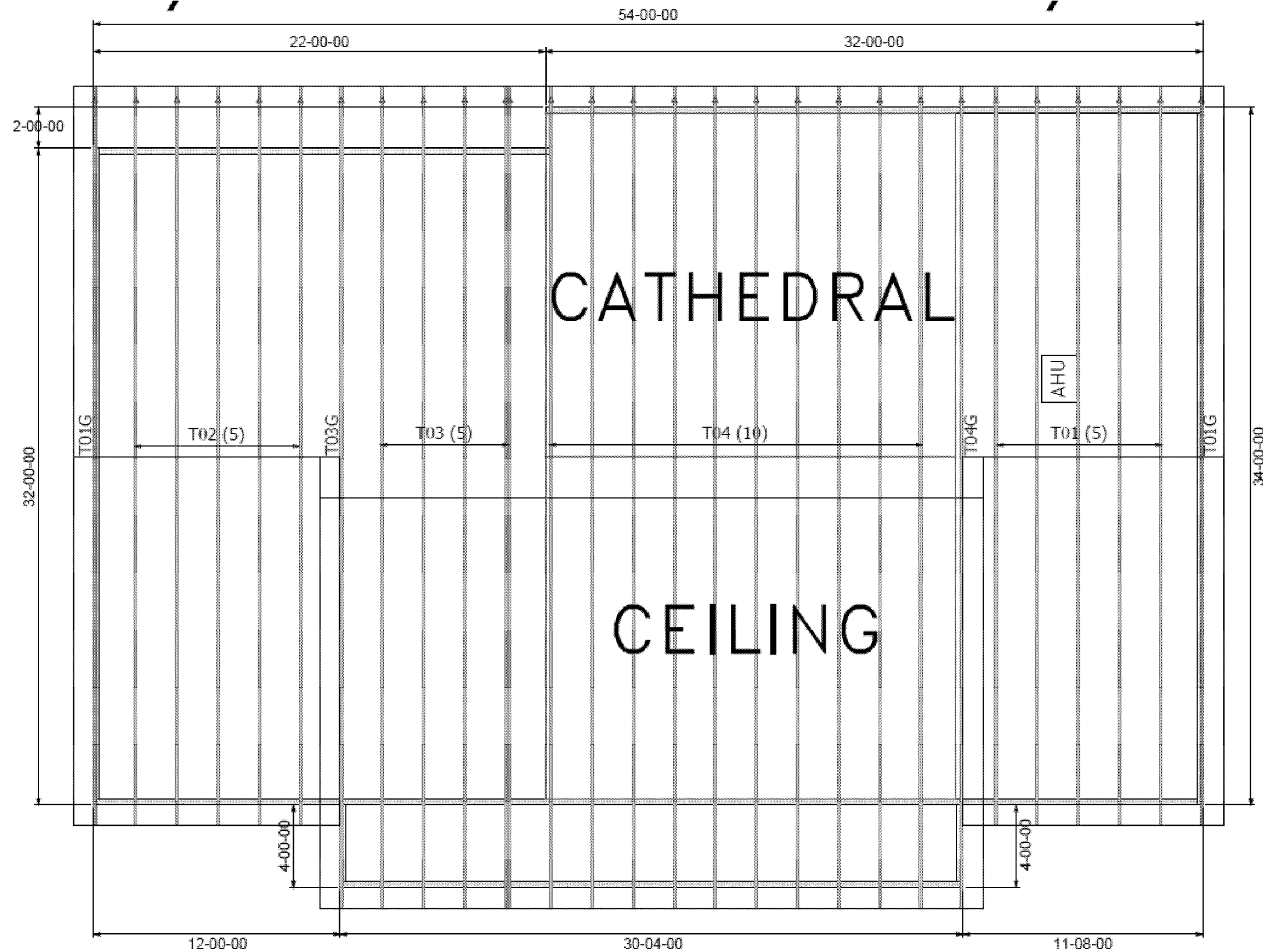
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2

OF

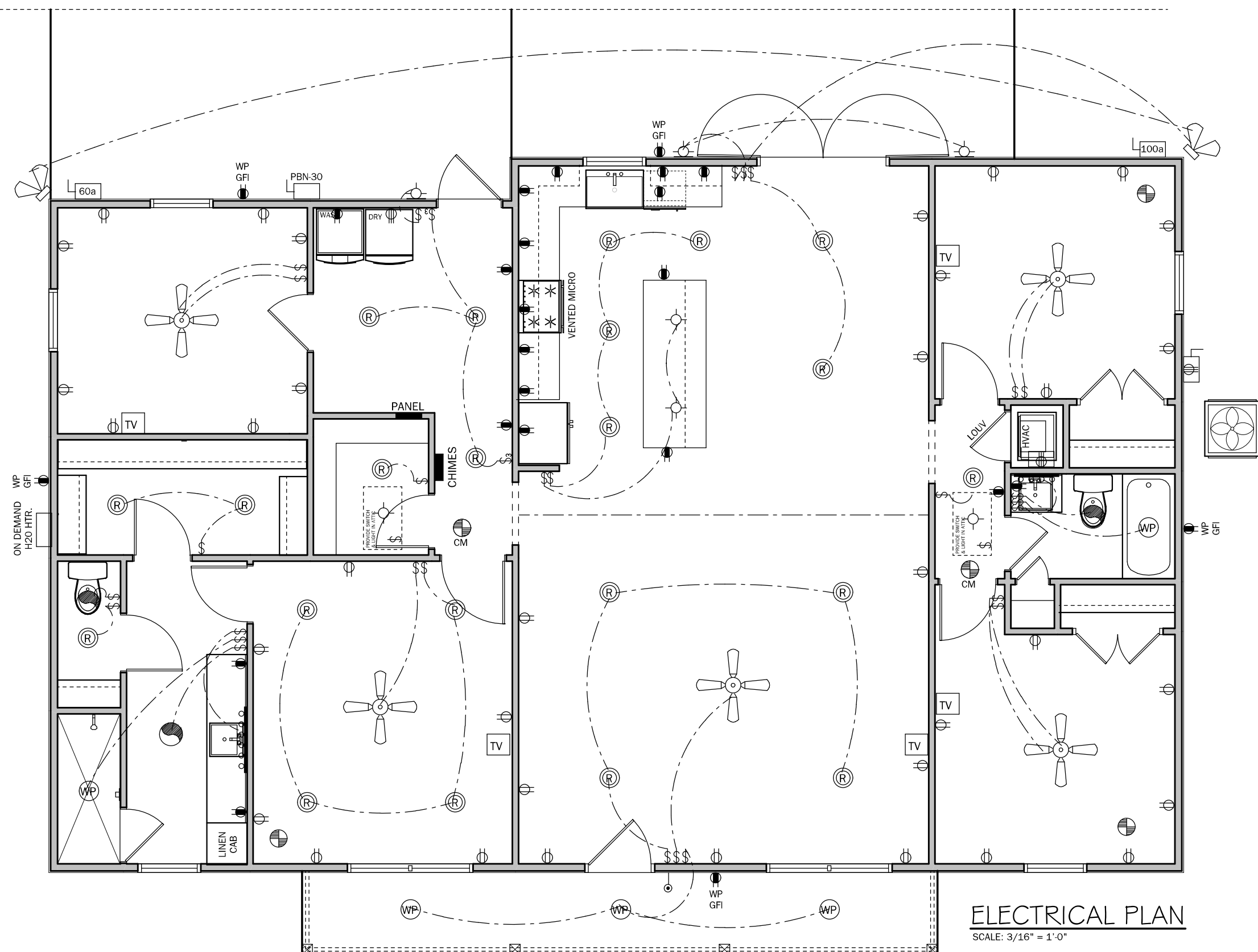
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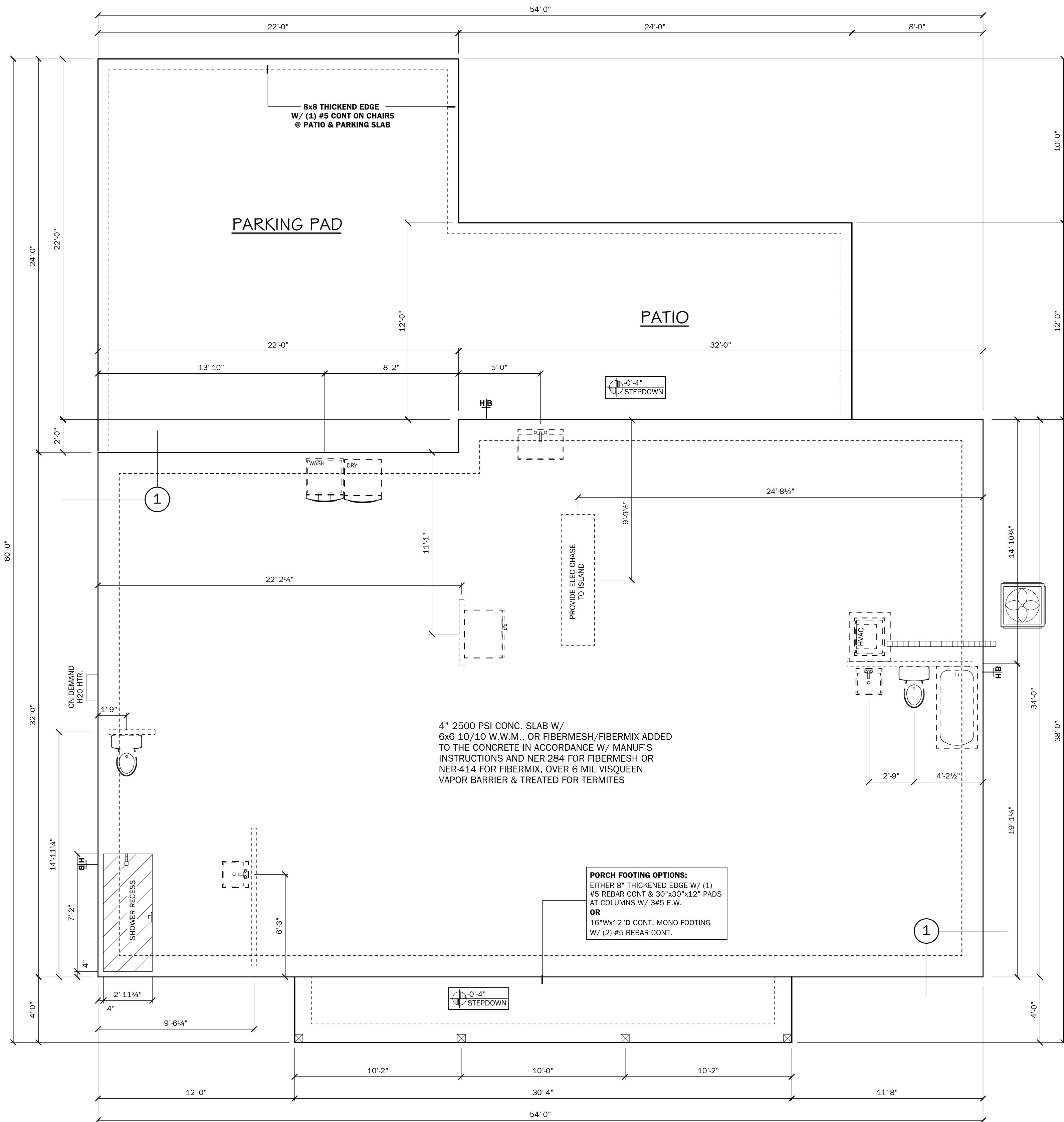
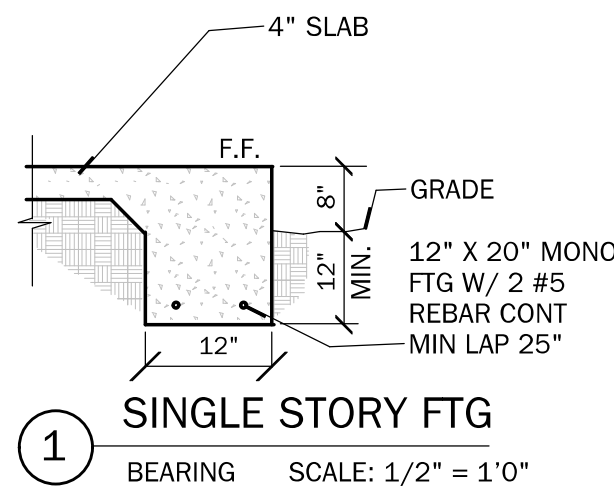


- NOTES:**
UNLESS OTHERWISE NOTED
1. ELECTRICAL OUTLET HEIGHTS AS MEASURED FROM FINISHED FLOOR TO CENTERED LINE OF THE BOX IS TO BE: 12" AFF (GENERAL)

KITCHEN	36" AFF
BATHROOM	40" AFF
LAUNDRY ROOM	44" AFF
EXTERIOR WATERPROOF	42" AFF
GARAGE GENERAL PURPOSE	42" AFF
RANGE	2" AFF
 2. ALL TRIM PLATES & DEVICES TO BE 42" ABOVE FINISHED FLOOR.
 3. ELECTRICAL SWITCHES TO BE AT 42" CENTERLINE ABOVE FINISHED FLOOR.
 4. ELECTRICAL PLAN IS INTENDED FOR BID PURPOSES ONLY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, LATEST EDITION, BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION & SIZING OF ALL ELECTRICAL, WIRING & ACCESSORIES.
 5. SMOKE DETECTORS SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE, SECTION 907.
 6. KEEP ALL SMOKE DETECTORS MINIMUM OF 36" FROM BATHROOM DOORS
 7. IN NEW CONSTRUCTION, SMOKE DETECTORS SHALL BE HARDWIRED INTO AN INTERLOCKED POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP.
 8. BATHROOM EXHAUST FANS MUST VENT TO THE EXTERIOR OF THE BUILDING. ATTIC SPACE AND SOFFITS ARE NOT ACCEPTABLE.
 9. ALL DOORS AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2017 AND 2015 LIFE SAFETY CODE PRESSURE RATING OF 90 PSIA AT 10 FEET, AND EITHER HARDWARED OR OF THE PLUNG TYPE. THE EXIT ALARM SHALL PRODUCE A CONTINUOUS AUDIBLE WARNING WHEN THE DOOR OR WINDOW IS OPENED.
 10. STOVE AND DRYER TO HAVE NEUTRAL
 11. PROVIDE TAMPER RESISTANT RECEPTACLES WHERE APPLICABLE
 14. PROVIDE ARC-FAULT RECEPTACLES ON ALL 15 & 20 AMP NON GFCI PROTECTED CIRCUITS



MARK	HOLD DOWN ANALYSIS	UPLIFT
	<p>UNLESS NOTED OTHERWISE PROVIDE APPROPRIATE CONNECTOR PER CHART AND PROVIDED TRUSS ENGINEERING</p> <p>WOOD CONNECTIONS =</p> <p>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#</p>	
(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



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

