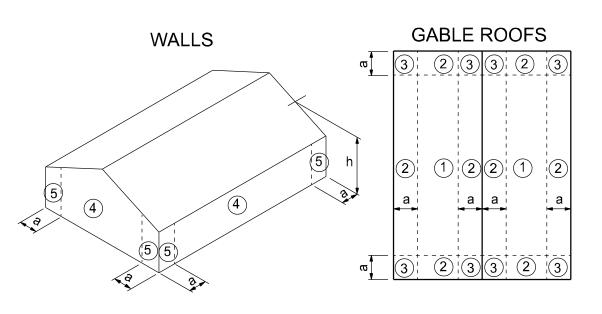
| ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE 6TH EDITION (2017)    FLOOR AND ROOF LIVE LOADS  |                                |      |                          |                |  |
|--|--------------------------------|------|--------------------------|----------------|--|
| UNINHABITABLE ATTICS:  HABITABLE ATTICS, BEDROOM:  ALL OTHER ROOMS:  ALL OTHER ROOMS:  GARAGE:  40 PSF  ROOFS:  20 PSF UNIFORM  WIND DESIGN DATA  ULTIMATE WIND SPEED:  NOMINAL (BASIC) WIND SPEED:  RISK CATEGORY:  WIND EXPOSURE:  ENCLOSURE CLASSIFICATION:  INTERNAL PRESSURE COEFFICIENT:  COMPONENTS AND CLADDING  ROOFING ZONE 1:  ROOFING ZONE 2:  16.8 PSF MAX.  -18.4 PSF MIN.  ROOFING ZONE 3:  ROOFING AT ZONE 2 OVERHANGS:  ROOFING AT ZONE 3 OVERHANGS:  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4:  18.4 PSF MIN.  -21.5 PSF MIN.  -21.5 PSF MIN.  -21.5 PSF MIN.  -21.5 PSF MIN.  -21.6 PSF MIN. |                                |      |                          |                |  |
| ALL OTHER ROOMS:   30 PSF  | FI                             | LOOR | RAND ROOF LIVE LOADS     |                |  |
| ALL OTHER ROOMS:  GARAGE:  GARAGE:  ROOFS:  20 PSF UNIFORM  WIND DESIGN DATA  ULTIMATE WIND SPEED:  NOMINAL (BASIC) WIND SPEED:  RISK CATEGORY:  WIND EXPOSURE:  ENCLOSURE CLASSIFICATION:  INTERNAL PRESSURE COEFFICIENT:  COMPONENTS AND CLADDING  ROOFING ZONE 1:  16.8 PSF MAX.  -18.4 PSF MIN.  ROOFING ZONE 3:  16.8 PSF MAX.  -21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS:  -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS:  -31.1 PSF MIN.  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4:  18.4 PSF MAX.  -19.9 PSF MIN.  ROOFING ZONE 5:  18.4 PSF MAX.  -19.9 PSF MIN.  -18.3 PSF MIN.   | UNINHABITABLE ATTICS:          |      | 20 PS                    | F              |  |
| GARAGE: 40 PSF  ROOFS: 20 PSF UNIFORM  WIND DESIGN DATA  ULTIMATE WIND SPEED: 130 MPH  NOMINAL (BASIC) WIND SPEED: 101 MPH  RISK CATEGORY: II  WIND EXPOSURE: B  ENCLOSURE CLASSIFICATION: ENCLOSED  INTERNAL PRESSURE COEFFICIENT: 0.18 +/-  COMPONENTS AND CLADDING  ROOFING ZONE 1: 16.8 PSF MAX18.4 PSF MIN.  ROOFING ZONE 2: 16.8 PSF MAX21.5 PSF MIN.  ROOFING ZONE 3: 16.8 PSF MAX21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS: -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS: -31.1 PSF MIN.  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4: 18.4 PSF MAX19.9 PSF MIN.  ROOFING ZONE 5: 18.4 PSF MAX24.6 PSF MIN.  9' WIDE O/H DR.: 16.1 PSF MAX18.3 PSF MIN.  | HABITABLE ATTICS, BEDROOM:     |      | 30 PS                    | F              |  |
| ROOFS: 20 PSF UNIFORM  | ALL OTHER ROOMS:               |      | 40 PS                    | F              |  |
| WIND DESIGN DATA           ULTIMATE WIND SPEED:         130 MPH           NOMINAL (BASIC) WIND SPEED:         101 MPH           RISK CATEGORY:         II           WIND EXPOSURE:         B           ENCLOSURE CLASSIFICATION:         ENCLOSED           INTERNAL PRESSURE COEFFICIENT:         0.18 +/-           COMPONENTS AND CLADDING           ROOFING ZONE 1:         16.8 PSF MAX.         -18.4 PSF MIN.           ROOFING ZONE 2:         16.8 PSF MAX.         -21.5 PSF MIN.           ROOFING ZONE 3:         16.8 PSF MAX.         -21.5 PSF MIN.           ROOFING AT ZONE 2 OVERHANGS:         -31.1 PSF MIN.           ROOFING AT ZONE 3 OVERHANGS:         -31.1 PSF MIN.           STUCCO, CLADDING, DOORS AND WINDOWS           ROOFING ZONE 4:         18.4 PSF MAX.         -19.9 PSF MIN.           ROOFING ZONE 5:         18.4 PSF MAX.         -24.6 PSF MIN.           9' WIDE O/H DR.:         16.1 PSF MAX.         -18.3 PSF MIN.   | GARAGE:                        |      | 40 PS                    | F              |  |
| ULTIMATE WIND SPEED:         130 MPH           NOMINAL (BASIC) WIND SPEED:         101 MPH           RISK CATEGORY:         II           WIND EXPOSURE:         B           ENCLOSURE CLASSIFICATION:         ENCLOSED           INTERNAL PRESSURE COEFFICIENT:         0.18 +/-           COMPONENTS AND CLADDING           ROOFING ZONE 1:         16.8 PSF MAX.         -18.4 PSF MIN.           ROOFING ZONE 2:         16.8 PSF MAX.         -21.5 PSF MIN.           ROOFING ZONE 3:         16.8 PSF MAX.         -21.5 PSF MIN.           ROOFING AT ZONE 2 OVERHANGS:         -31.1 PSF MIN.           ROOFING AT ZONE 3 OVERHANGS:         -31.1 PSF MIN.           STUCCO, CLADDING, DOORS AND WINDOWS           ROOFING ZONE 4:         18.4 PSF MAX.         -19.9 PSF MIN.           ROOFING ZONE 5:         18.4 PSF MAX.         -24.6 PSF MIN.           9' WIDE O/H DR.:         16.1 PSF MAX.         -18.3 PSF MIN.  | ROOFS:                         |      | 20 PSF UNI               | FORM           |  |
| NOMINAL (BASIC) WIND SPEED:         101 MPH           RISK CATEGORY:         II           WIND EXPOSURE:         B           ENCLOSURE CLASSIFICATION:         ENCLOSED           INTERNAL PRESSURE COEFFICIENT:         0.18 +/-           COMPONENTS AND CLADDING           ROOFING ZONE 1:         16.8 PSF MAX.         -18.4 PSF MIN.           ROOFING ZONE 2:         16.8 PSF MAX.         -21.5 PSF MIN.           ROOFING ZONE 3:         16.8 PSF MAX.         -21.5 PSF MIN.           ROOFING AT ZONE 2 OVERHANGS:         -31.1 PSF MIN.           ROOFING AT ZONE 3 OVERHANGS:         -31.1 PSF MIN.           STUCCO, CLADDING, DOORS AND WINDOWS           ROOFING ZONE 4:         18.4 PSF MAX.         -19.9 PSF MIN.           ROOFING ZONE 5:         18.4 PSF MAX.         -24.6 PSF MIN.           9' WIDE O/H DR.:         16.1 PSF MAX.         -18.3 PSF MIN.   |                                | WI   | ND DESIGN DATA           |                |  |
| RISK CATEGORY:  WIND EXPOSURE:  B ENCLOSURE CLASSIFICATION:  INTERNAL PRESSURE COEFFICIENT:  COMPONENTS AND CLADDING  ROOFING ZONE 1:  16.8 PSF MAX.  ROOFING ZONE 2:  16.8 PSF MAX.  -21.5 PSF MIN.  ROOFING ZONE 3:  16.8 PSF MAX.  -21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS:  -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS:  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4:  18.4 PSF MAX.  -19.9 PSF MIN.  ROOFING ZONE 5:  18.4 PSF MAX.  -24.6 PSF MIN.  | ULTIMATE WIND SPEED:           |      | 130 M                    | PH             |  |
| WIND EXPOSURE:  ENCLOSURE CLASSIFICATION:  INTERNAL PRESSURE COEFFICIENT:  COMPONENTS AND CLADDING  ROOFING ZONE 1:  16.8 PSF MAX.  ROOFING ZONE 2:  16.8 PSF MAX.  ROOFING ZONE 3:  16.8 PSF MAX.  -21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS:  ROOFING AT ZONE 3 OVERHANGS:  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4:  18.4 PSF MAX.  -19.9 PSF MIN.  ROOFING ZONE 5:  18.4 PSF MAX.  -24.6 PSF MIN.  9' WIDE O/H DR.:  16.1 PSF MAX.  -18.3 PSF MIN.   | NOMINAL (BASIC) WIND SPEED:    |      | 101 M                    | PH             |  |
| ENCLOSURE CLASSIFICATION:  INTERNAL PRESSURE COEFFICIENT:  COMPONENTS AND CLADDING  ROOFING ZONE 1:  16.8 PSF MAX.  -18.4 PSF MIN.  ROOFING ZONE 2:  16.8 PSF MAX.  -21.5 PSF MIN.  ROOFING ZONE 3:  16.8 PSF MAX.  -21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS:  -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS:  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4:  18.4 PSF MAX.  -19.9 PSF MIN.  ROOFING ZONE 5:  18.4 PSF MAX.  -24.6 PSF MIN.  9' WIDE O/H DR.:  16.1 PSF MAX.  -18.3 PSF MIN.   | RISK CATEGORY:                 |      | II.                      |                |  |
| INTERNAL PRESSURE COEFFICIENT:  COMPONENTS AND CLADDING  ROOFING ZONE 1:  16.8 PSF MAX.  -18.4 PSF MIN.  ROOFING ZONE 2:  16.8 PSF MAX.  -21.5 PSF MIN.  ROOFING ZONE 3:  16.8 PSF MAX.  -21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS:  -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS:  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4:  18.4 PSF MAX.  -19.9 PSF MIN.  ROOFING ZONE 5:  18.4 PSF MAX.  -24.6 PSF MIN.  9' WIDE O/H DR.:  16.1 PSF MAX.  -18.3 PSF MIN.  | WIND EXPOSURE:                 |      | В                        |                |  |
| COMPONENTS AND CLADDING  ROOFING ZONE 1: 16.8 PSF MAX18.4 PSF MIN.  ROOFING ZONE 2: 16.8 PSF MAX21.5 PSF MIN.  ROOFING ZONE 3: 16.8 PSF MAX21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS: -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS: -31.1 PSF MIN.  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4: 18.4 PSF MAX19.9 PSF MIN.  ROOFING ZONE 5: 18.4 PSF MAX24.6 PSF MIN.  9' WIDE O/H DR.: 16.1 PSF MAX18.3 PSF MIN.  | ENCLOSURE CLASSIFICATION:      |      | ENCL                     | OSED           |  |
| ROOFING ZONE 1: 16.8 PSF MAX18.4 PSF MIN.  ROOFING ZONE 2: 16.8 PSF MAX21.5 PSF MIN.  ROOFING ZONE 3: 16.8 PSF MAX21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS: -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS: -31.1 PSF MIN.  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4: 18.4 PSF MAX19.9 PSF MIN.  ROOFING ZONE 5: 18.4 PSF MAX24.6 PSF MIN.  9' WIDE O/H DR.: 16.1 PSF MAX18.3 PSF MIN.   | INTERNAL PRESSURE COEFFICIENT: |      | 0.18 +                   | /-             |  |
| ROOFING ZONE 2: 16.8 PSF MAX21.5 PSF MIN.  ROOFING ZONE 3: 16.8 PSF MAX21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS: -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS: -31.1 PSF MIN.  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4: 18.4 PSF MAX19.9 PSF MIN.  ROOFING ZONE 5: 18.4 PSF MAX24.6 PSF MIN.  9' WIDE O/H DR.: 16.1 PSF MAX18.3 PSF MIN.  | СОМРО                          |      | NENTS AND CLADDING       |                |  |
| ROOFING ZONE 3: 16.8 PSF MAX21.5 PSF MIN.  ROOFING AT ZONE 2 OVERHANGS: -31.1 PSF MIN.  ROOFING AT ZONE 3 OVERHANGS: -31.1 PSF MIN.  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4: 18.4 PSF MAX19.9 PSF MIN.  ROOFING ZONE 5: 18.4 PSF MAX24.6 PSF MIN.  9' WIDE O/H DR.: 16.1 PSF MAX18.3 PSF MIN.   | ROOFING ZONE 1:                |      | 16.8 PSF MAX.            | -18.4 PSF MIN. |  |
| ROOFING AT ZONE 2 OVERHANGS:  ROOFING AT ZONE 3 OVERHANGS:  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4:  18.4 PSF MAX.  ROOFING ZONE 5:  18.4 PSF MAX.  -24.6 PSF MIN.  9' WIDE O/H DR.:  16.1 PSF MAX.  -18.3 PSF MIN.   | ROOFING ZONE 2:                |      | 16.8 PSF MAX.            | -21.5 PSF MIN. |  |
| ROOFING AT ZONE 3 OVERHANGS:  STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4:  18.4 PSF MAX.  -19.9 PSF MIN.  ROOFING ZONE 5:  18.4 PSF MAX.  -24.6 PSF MIN.  9' WIDE O/H DR.:  16.1 PSF MAX.  -18.3 PSF MIN.   | ROOFING ZONE 3:                |      | 16.8 PSF MAX.            | -21.5 PSF MIN. |  |
| STUCCO, CLADDING, DOORS AND WINDOWS  ROOFING ZONE 4: 18.4 PSF MAX19.9 PSF MIN.  ROOFING ZONE 5: 18.4 PSF MAX24.6 PSF MIN.  9' WIDE O/H DR.: 16.1 PSF MAX18.3 PSF MIN.  | ROOFING AT ZONE 2 OVERHANGS:   |      | -31.1 PSF MIN.           |                |  |
| ROOFING ZONE 4:       18.4 PSF MAX.       -19.9 PSF MIN.         ROOFING ZONE 5:       18.4 PSF MAX.       -24.6 PSF MIN.         9' WIDE O/H DR.:       16.1 PSF MAX.       -18.3 PSF MIN.  | ROOFING AT ZONE 3 OVERHANGS:   |      | -31.1 PSF MIN.           |                |  |
| ROOFING ZONE 5:         18.4 PSF MAX.         -24.6 PSF MIN.           9' WIDE O/H DR.:         16.1 PSF MAX.         -18.3 PSF MIN.   | STUCCO, CLAD                   |      | DDING, DOORS AND WINDOWS |                |  |
| 9' WIDE O/H DR.: 16.1 PSF MAX18.3 PSF MIN.   | ROOFING ZONE 4:                |      | 18.4 PSF MAX.            | -19.9 PSF MIN. |  |
| Tell till tell te  | ROOFING ZONE 5:                |      | 18.4 PSF MAX.            | -24.6 PSF MIN. |  |
| 16' WIDE O/H DR.: 16.0 PSF MAX17.3 PSF MIN.  | 9' WIDE O/H DR.:               |      | 16.1 PSF MAX.            | -18.3 PSF MIN. |  |
|  | 16' WIDE O/H DR.:              |      | 16.0 PSF MAX.            | -17.3 PSF MIN. |  |



- a: 10% of least horizontal dim. or 0.4h, whichever is smaller, but not less than
- either 4% of least horizontal dimension or 3 ft. h: mean roof height, in feet.

COMPONENTS AND CLADDING

**HIP ROOFS** 

## STRUCTURAL DESIGN CRITERIA

FLORIDA BUILDING CODE 6TH EDITION (2017) CODES: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14) SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 301-16) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13)

NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 EDITION APA PLYWOOD DESIGN SPECIFICATION

LIVE LOADS:

20 PSF (REDUCIBLE) RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED 40 PSF **BALCONIES** 40 PSF STAIRS

20 PSF

ASTM A615-40 40,000 PSI

ASTM A615-40 40,000 PSI

LIGHT PARTITIONS (DEAD LOAD), U.N.O. WIND LOADS BASED ON FBC, SECTION 1609 WIND LOADS: WIND VELOCITY: 120 M.P.H., USE FACTOR: 1.0 (F.B.C.)

**REINFORCING:** 

**WOOD ROOF** 

ALL CONCRETE UNLESS OTHERWISE INDICATED CONCRETE PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY STRENGTH

3000 PSI (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS) @ 28 DAYS ASTM A185

WELDED WIRE FABRIC SHALL CONFORM TO

ALL STIRRUPS AND TIES ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 PSI CONCRETE

ALL REINFORCING BARS

MORTAR TYPE "S" 1800 PSI MASONRY CONCRETE GROUT 3000 PSI UNITS: CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION

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

BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O. WOOD FRAMING: 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. **DESIGN LOADS:** 

30 PSF TOP CHORD LIVE AND DEAD LOAD: TRUSSES: 10 PSF BOTTOM CHORD DEAD LOAD: 40 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.

ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 1,500 PSF SOIL BEARING 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.

PROJECT LOCATION LRESIDENC **ABBREVIATIONS** Anchor Bolt Plt. Ht. Plate Height Foundation Fdn. Above Plt Sh. Plant Shelf Air-Conditioner Flr. Sys. Floor System PSF Pounds per square foot A.É.F.

| Adj.      | Adjustable           | F.Pl.  | Fireplace                 | P.T.                 | Pressure Treated       |
|-----------|----------------------|--------|---------------------------|----------------------|------------------------|
| A.É.F.    | Above Finished Floor | Ft.    | Foot / Feet               | Pwd.                 | Powder Room            |
| A.H.U.    | Air Handler Unit     | Ftg.   | Footing                   | Rad.                 | Radius                 |
| ALT.      | Alternate            | FX     | Fixed                     | Ref.                 | Refrigerator           |
| B.C. I    | Base Cabinet         | Galv.  | Galvanized                | Reg'd.               | Required               |
| B.F.      | Bifold Door          | G.C.   | General Contractor        | Rm.                  | Room                   |
| Bk Sh I   | Book Shelf           | G.F.I. | Ground Fault Interrupter  | Rnd.                 | Round                  |
| Bm. I     | Beam                 | G.T.   | Girder Truss              | R/SH                 | Rod and Shelf          |
| BOT. I    | Bottom               | Hdr.   | Header                    | SD.                  | Smoke Detector         |
| B.P. I    | Bypass door          | Hgt.   | Height                    | S.F.                 | Square Ft.             |
| Brg. I    | Bearing              | HB     | Hose Bibb                 | Sh.                  | Shelves                |
|           | Circle               | Int.   | Interior                  | SHT                  | Sheet                  |
| Clg. (    | Ceiling              | K/Wall | Kneewall                  | S.L.                 | Side Lights            |
| Col. (    | Column               | K.S.   | Knee Space                | S.P.F.               | Spruce Pine Fir        |
| Comp. /   | A/C Compressor       | Laun.  | Laundry                   | Sq.                  | Square                 |
|           | Ceramic Tile         | Lav.   | Lavatory                  | S.Y.P.               | Southern Yellow Pine   |
|           | Dryer                | L.F.   | Linear Ft.                | Temp.                | Tempered               |
|           | Decorative           | L.T.   | Laundry Tub               | Thik <sup>i</sup> n. | Thicken                |
|           | Dedicated Outlet     | Mas.   | Masonry                   | T.O.B.               | Top of Block           |
| Dbl. [    | Double               | Max    | Maximum                   | T.O.M.               | Top of Masonry         |
| Dia. I    | Diameter             | M.C.   | Medicine Cabinet          | T.O.P.               | Top of Plate           |
|           | Disposal             | MDP    | Master Distribution Panel | Trans.               | Transom Window         |
|           | Distance             | Mfgr.  | Manufacturer              | Typ.                 | Typical                |
|           | Drawer Stack         | Mičro. | Microwave                 | UČL                  | Under Cabinet Lighting |
|           | Dryer Vent           | Min    | Minimum                   | U.N.O.               | Unless Noted Otherwise |
|           | Dishwasher           | M.L.   | Microlam                  | VB                   | Vanity Base            |
|           | Each                 | Mir.   | Mirror                    | Vert.                | Vertical               |
|           | Each Way             | Mono   | Monolithic                | V.L.                 | Versalam               |
|           | Electrical           | N.T.S. | Not to Scale              | VTR                  | Vent through Roof      |
|           | Elevation            | Opn'g. | Opening                   | W                    | Washer                 |
|           | Exterior             | Opt.   | Optional                  | W/                   | With                   |
|           | Expansion            | Pc.    | Piece                     | W/C                  | Water Closet           |
| F.B.C.    | Florida Bldg. Code   | Ped.   | Pedestal                  | W.A.                 | Wedge Anchor           |
| Fin. Flr. |                      | P.L.   | Parallam                  | Wd                   | Wood                   |
| F.G.      | Fixed Glass          | PLF    | Pounds per linear foot    | WP                   | Water Proof            |
|           |                      |        |                           |                      |                        |

#### **INDEX OF SHEETS**

| SHEET  | DESCRIPTION   |
|--|---|
| A-1<br>A-2<br>A-3<br>A-4<br>A-5<br>A-6<br>A-7<br>A-8 | COVER SHEET FLOOR PLAN ELEVATIONS FRONT AND REAR ELEVATIONS SIDES FOUNDATION PLAN ROOF PLAN MASONRY DETAILS ELECTRICAL PLAN |
|  |   |



CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DIS-CREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRACATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO FINAL PLAN SETS

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATION ON THE PLANS.

INORGANIC ARSENICAL PRESSURE TREATED WOOD SOME FRAMING MATERIALS SPECIFIED FOR THE CONSTRUCTION OF YOUR PROJECT SUCH AS SILLS OR EXTERIOR FRAMING ARE PRESSURE TREATED. EACH PIECE IS CLEARLY MARKED FOR EASY IDENTIFICATION AND IS USUALLY GREENISH IN COLOR.

THIS WOOD HAS BEEN PRESERVED BY PRESSURE-TREATMENT WITH AN EPA-REGISTERED PESTICIDE CONTAINING INORGANIC ARSENIC TO PROTECT IT FROM INSECT ATTACK AND DECAY. EXPOSURE TO TREATED WOOD MAY PRESENT CERTAIN HAZARDS, THEREFORE, PRECAUTIONS SHOULD BE TAKEN BOTH WHEN HANDLING THE TREATED WOOD AND IN DETERMINING WHERE TO USE OR DISPOSE OF THE TREATED WOOD.

FOR FURTHER INFORMATION ON THE USE OF AND DISPOSAL OF INORGANIC ARSENIC PRESSURE TREATED WOOD, PLEASE REFER TO THE EPA MATERIAL SAFETY SHEET DEALING WITH THIS PRODUCT.

#### PREFABRICATED WOOD TRUSSES

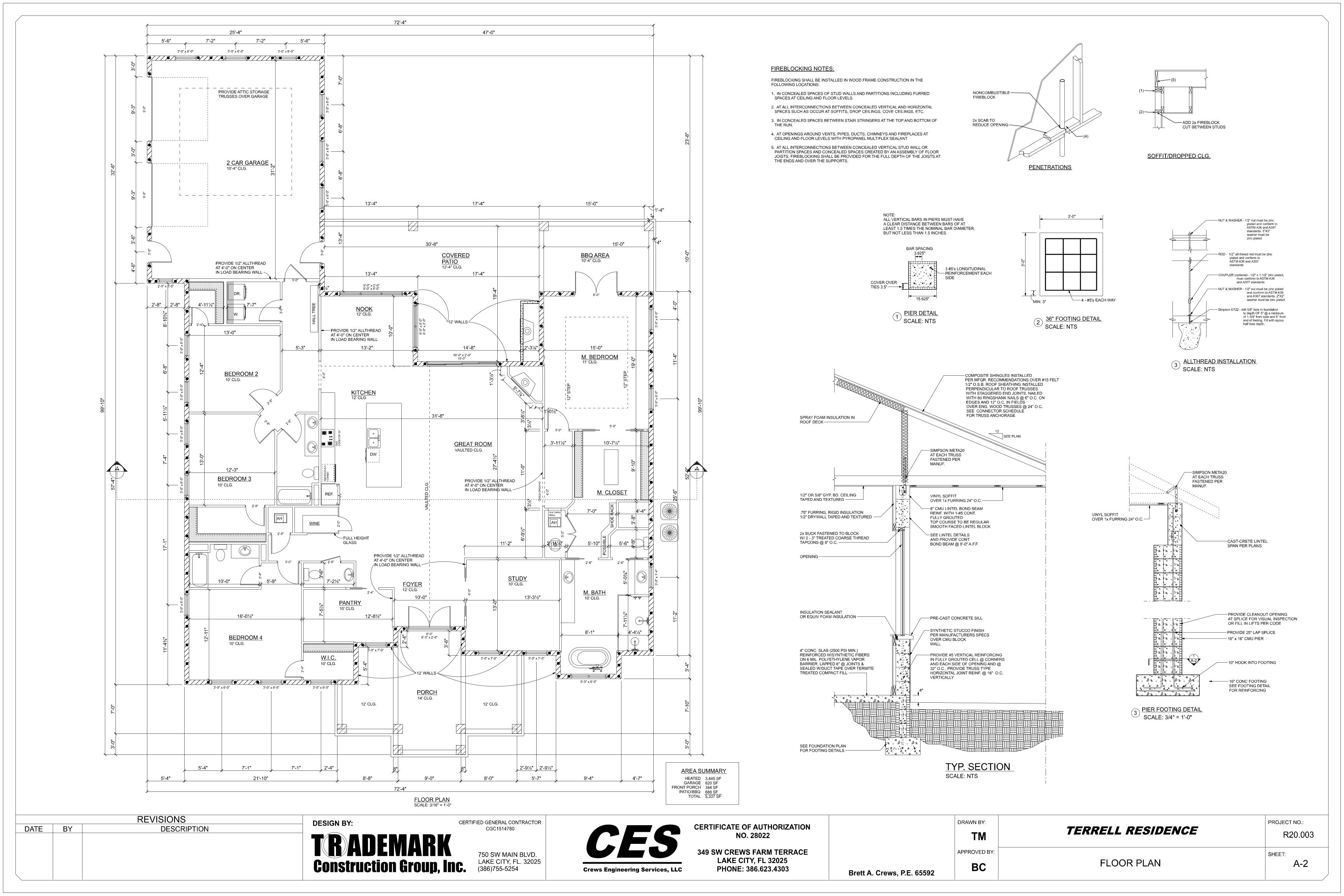
1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH **HURRICANE CLIPS OR ANCHORS** 

- 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 PROPOR-TIONED ( WITH 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:
- 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 AND DETAILS SHOWING MEMBER SIZES. BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND 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 3 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.

#### FIELD REPAIR NOTES

- 1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSM16 TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TITENS TO THE BOND BEAM BLOCK AND (7) 10d TO THE TRUSS FOR UPLIFTS OF 1000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASIS.
- 2. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUB-STITUTED W/ 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA. X 6" DEEP UNITEX "PROPOXY" 300 ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS (OR 1/2" X 6" RAWL STUD EXPANSION ANCHORS. )
- 3. REGARDING MISSED REBAR IN VERTICAL FILLED CELLS: 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 EMBEDDEMENT EPOXY ( SIMPSON "EPOXY TIE SET", OR HILTI " 2 PART" EMBEDDMENT EPOXY ), MIXED PER MANUFACTURER'S INSTRUCTIONS. 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 WAY DURING BOND BEAM POUR.
- 4. HURRICANE STRAPS MAY BE SUBSTITUTED WITH A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT VALUE IN THE FIELD WITHOUT VERIFICATION, PROVIDED ALL MANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.
- 5. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING)



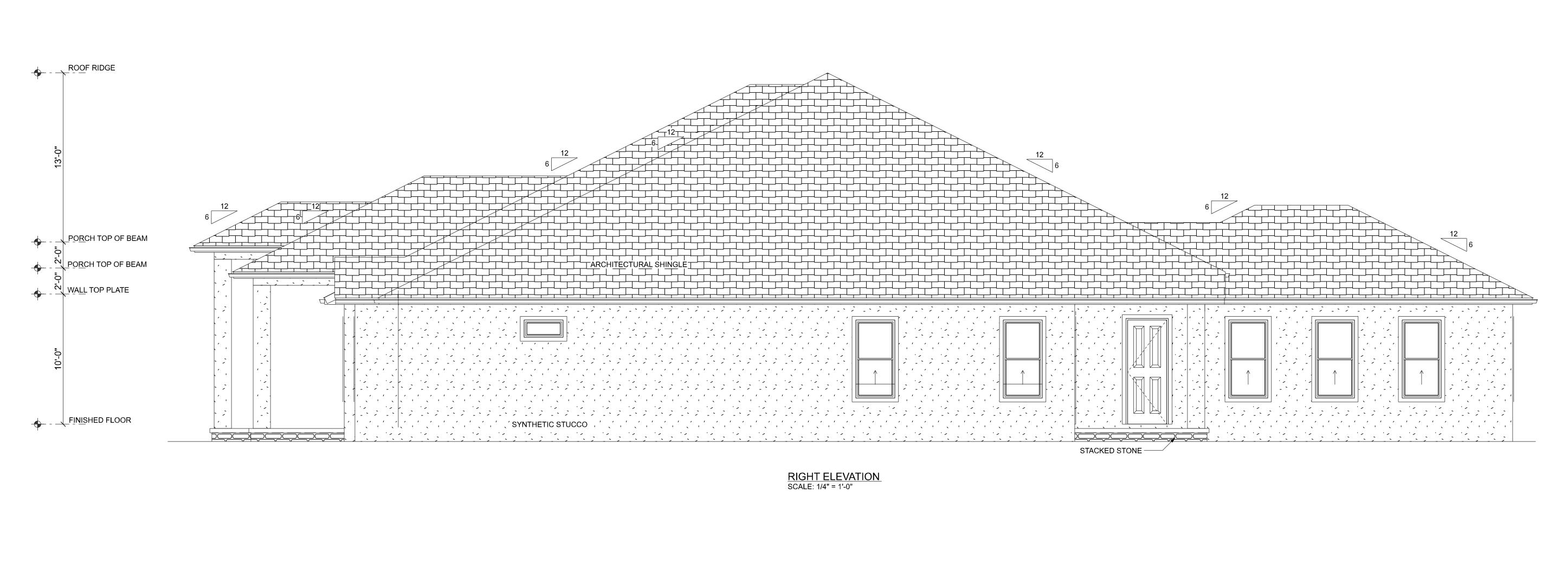






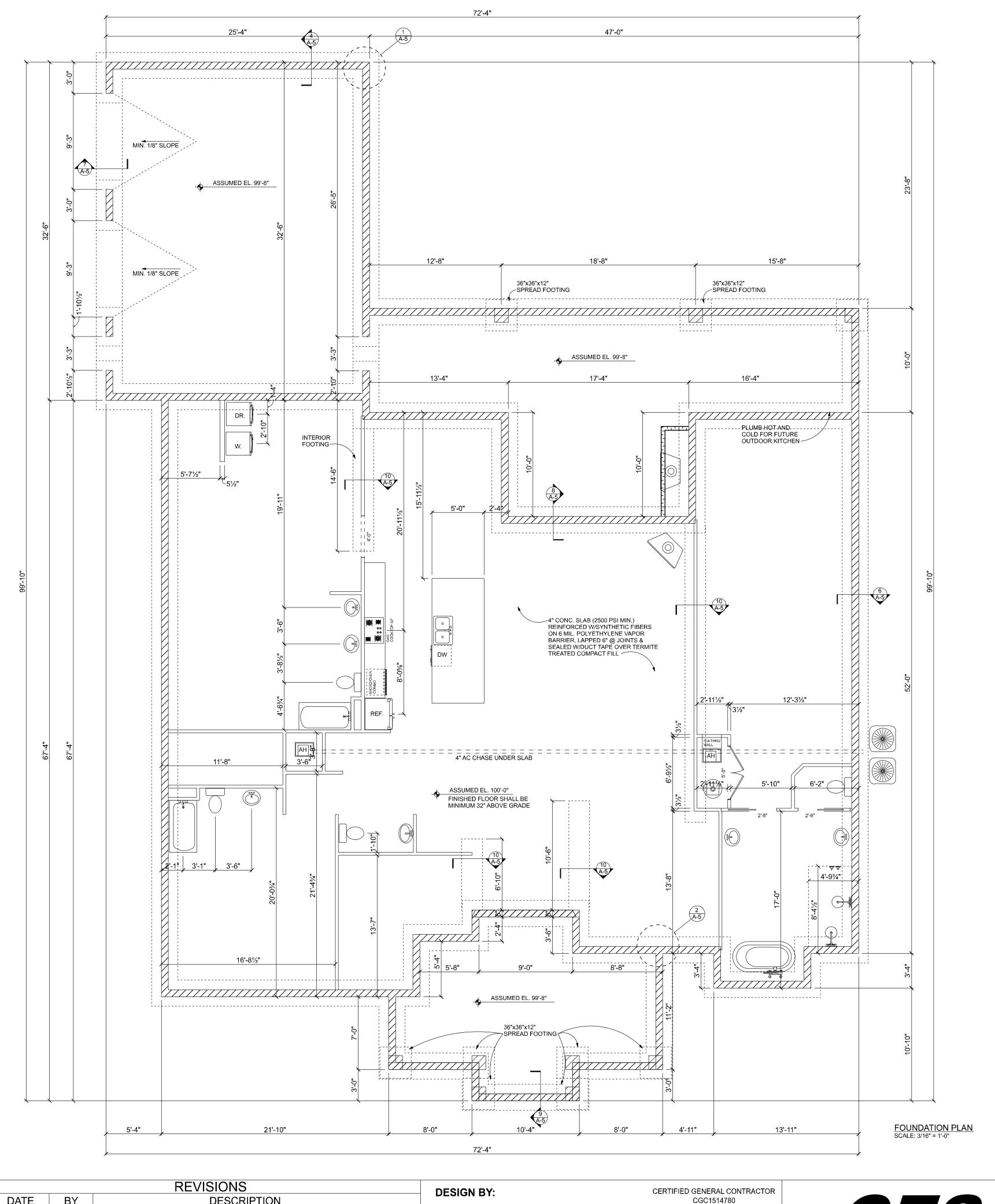
REVISIONS

DESCRIPTION **DESIGN BY:** CERTIFIED GENERAL CONTRACTOR CGC1514780 DRAWN BY: PROJECT NO.: CERTIFICATE OF AUTHORIZATION NO. 28022 DATE BY TERRELL RESIDENCE R20.003 TRADEMARK Construction Group, Inc. 349 SW CREWS FARM TERRACE 750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254 APPROVED BY: LAKE CITY, FL 32025 **ELEVATIONS FRONT AND REAR** A-3 BC PHONE: 386.623.4303 Crews Engineering Services, LLC Brett A. Crews, P.E. 65592





| REVISIONS DATE BY DESCRIPTION | DESIGN BY:  TRADEMARK    | RTIFIED GENERAL CONTRACTOR<br>CGC1514780                   | CFS                             | CERTIFICATE OF AUTHORIZATION<br>NO. 28022                               |                            | DRAWN BY:    | TERRELL RESIDENCE | PROJECT NO.:<br>R20.003 |
|-------------------------------|--------------------------|--|---------------------------------|---|----------------------------|--------------|-------------------|-------------------------|
|                               | Construction Group, Inc. | 750 SW MAIN BLVD.<br>LAKE CITY, FL. 32025<br>(386)755-5254 | Crews Engineering Services, LLC | 349 SW CREWS FARM TERRACE<br>LAKE CITY, FL 32025<br>PHONE: 386.623.4303 | Brett A. Crews, P.E. 65592 | APPROVED BY: | ELEVATIONS SIDES  | SHEET: A-4              |



**FOUNDATION NOTES** 

COVER OVER REINFORCING STEEL

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH
OF 2500 PSI AT 28 DAYS.

REINFORCING STEEL: THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFROCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

1. ALL REINFORCEMENT IS BENT COLD,

2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND

3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH

A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF

HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES

THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I.

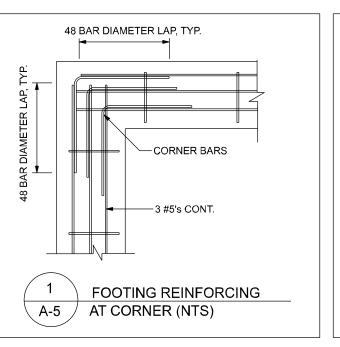
3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT COLUMN CENTER-LINES DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

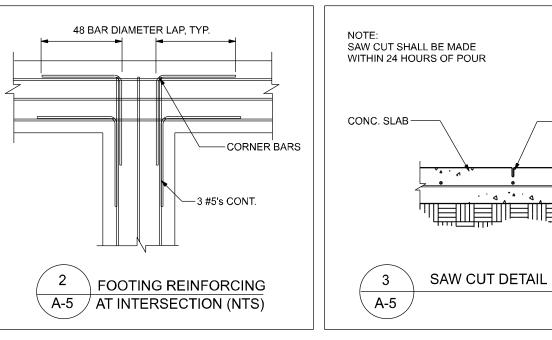
4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C.

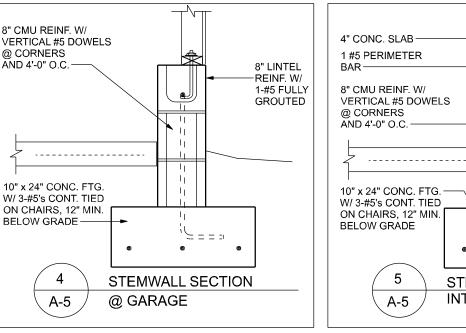
REINFORCEMENT AND EMBEDDED FIXTURES AND ALL FORMS AND KEYWAYS.

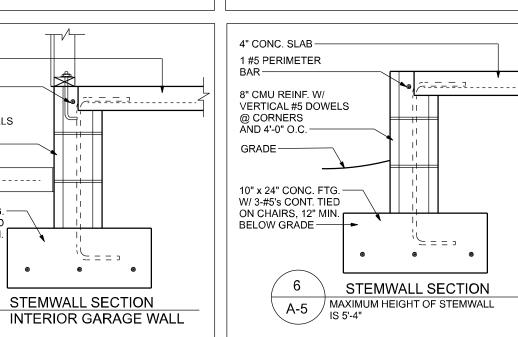
5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12"
AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A
DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE
DENSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND
RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

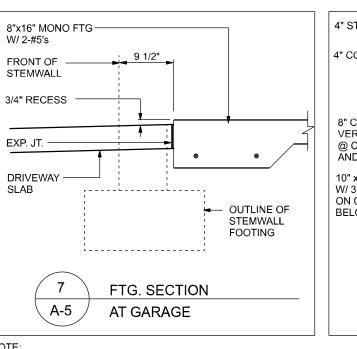
6. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MECHANICAL
VIBRATION DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND

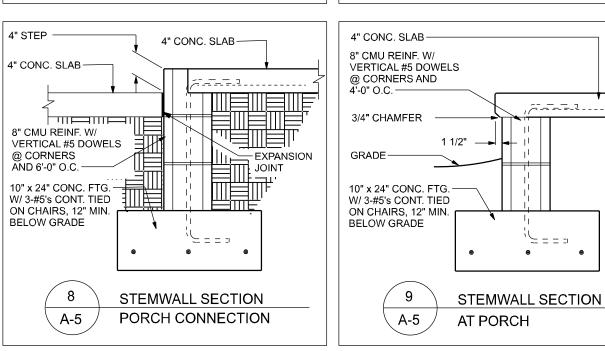


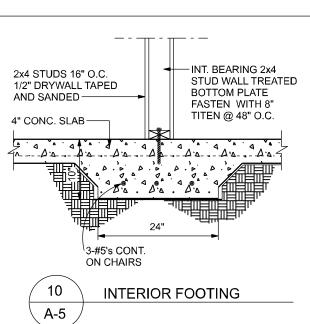












GENERAL NOTES:

DETAILS MAY NOT DEPICT ACTUAL STEMWALL

FLOOR ELEVATION AND STEMWALL HEIGHT IN

HEIGHT. CONTRACTOR SHALL VERIFY FINISHED

THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FORM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.

2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORK-MANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.

3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.

4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.

5. THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.

6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.

7. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.

8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED

9. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

BY THE BUILDING OFFICIAL.

CONSTRUCTION DOCUMENTS:

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING

CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL

BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

DO NOT SCALE THESE PLANS:

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS.

SIMPLE ARITHMATIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE

ITEMS NOT DIMENSIONED.

CHANGES TO PLAN SETS:

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THES PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

DATE BY DESCRIPTION

TRADEMARK

CERTIFICATION

CONSTRUCTION GROUP, Inc.



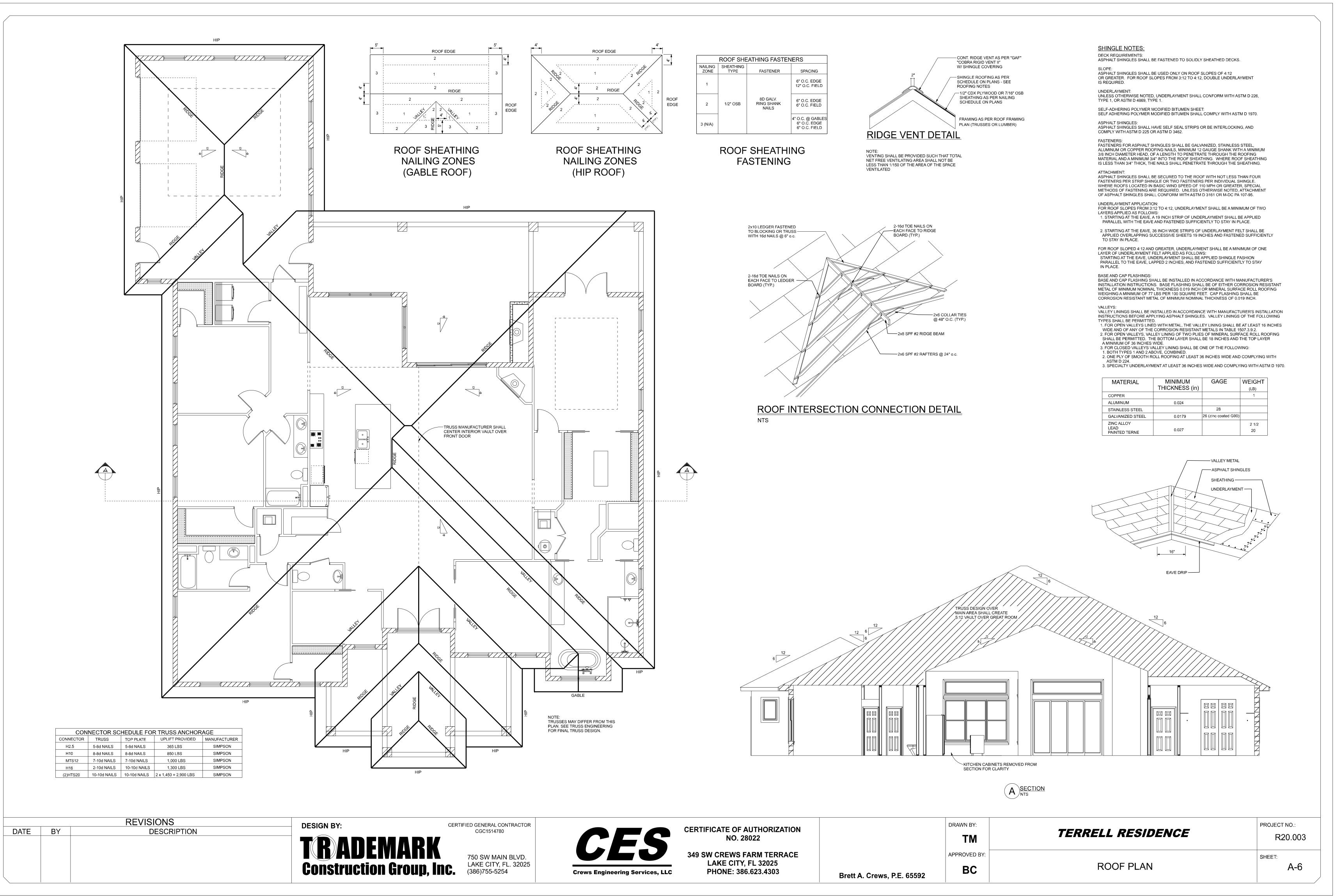
LAKE CITY, FL. 32025 (386)755-5254 CERTIFICATE OF AUTHORIZATION NO. 28022

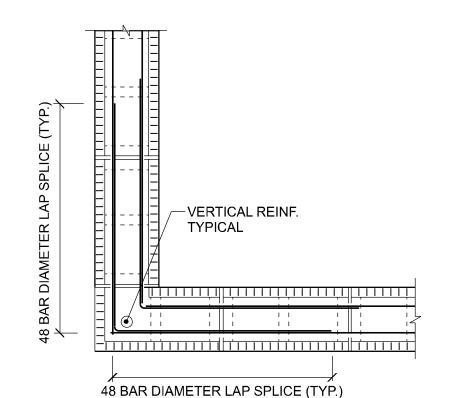
349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303 TM

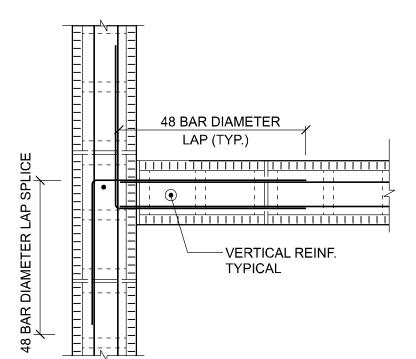
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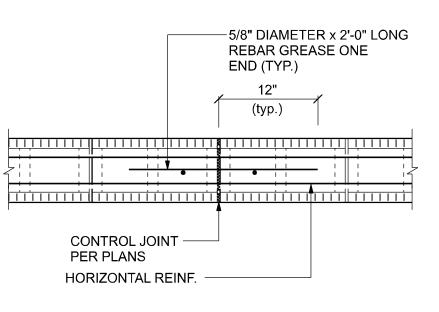
|                   | PROJECT NO.: |
|-------------------|--------------|
| TERRELL RESIDENCE | R20.00       |
| FOUNDATION PLAN   | SHEET: A-5   |

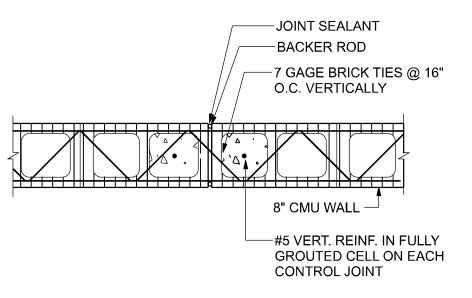
Brett A. Crews, P.E. 65592

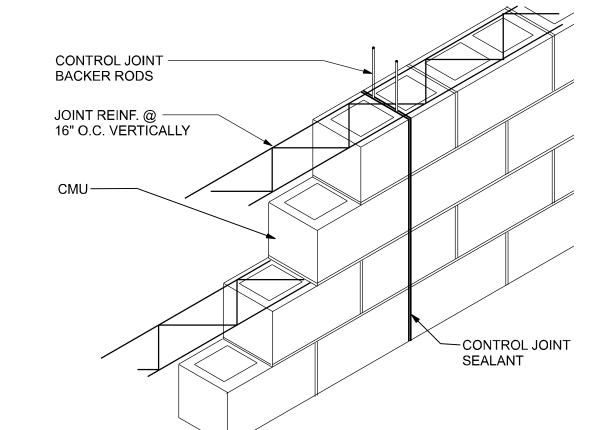












**CONTROL JOINT PLAN** SCALE: 3/4" = 1'-0"

AT CHANGES IN WALL HEIGHT OR THICKNESS

AT COLUMNS, PILASTERS, AND WALL INTERSECTIONS

## **BOND BEAM AT CORNER**

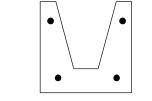
SCALE: 3/4" = 1'-0"

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

**BOND BEAM AT** 

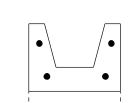
BOND BEAM AT CONTROL **JOINT** SCALE: 3/4" = 1'-0"

#### **CONTROL JOINT LOCATION** CONTROL JOINTS SHOULD BE SPACED EVERY 100' TO 125' ALONG UNBROKEN WALL LENGTHS OR:



# Lintel Concrete Strength = 4000 psi Fill Concrete Strength = 3000 psi Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

| <u>TYPE</u> | TOP BARS | BOTTOM BAR |
|-------------|----------|------------|
| Α           | NONE     | 2-#3       |
| В           | 2-#2     | 2-#4       |
| С           | 2-#3     | 2-#4       |
| D           | 2-#3     | 2-#5       |
| Е           | 2-#4     | 2-#6       |



#### Fill Concrete Strength = 3000 psi Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

| <u>TYPE</u> | TOP BARS | <b>BOTTOM BARS</b> |
|-------------|----------|--------------------|
| Α           | NONE     | 2-#3               |
| В           | NONE     | 2-#4               |
| С           | 2-#2     | 2-#4               |

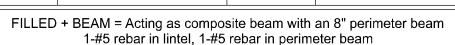
## PRECAST LINTEL OVER OPENINGS

SEE SCHEDULE FOR REINF.

-OPEN END COURSES

ABOVE

| 11120/101 2111122 3 1211 31 21111133 |            |      |               |  |
|--------------------------------------|------------|------|---------------|--|
| LENGTH                               | CLEAR SPAN | TYPE | FILLED + BEAM |  |
| 4'-6"                                | 3'-2"      | Α    | 6000+ PLF     |  |
| 7'-6"                                | 6'-2"      | В    | 5663 PLF      |  |
| 12'-0"                               | 10'-8"     | D    | 2181 PLF      |  |
| 17'-4"                               | 16'-0"     | E    | 1366 PLF      |  |



CMU Lintel Schedule

REINF. AT

1-#5

LINTEL DEPTH

8" CMU

4'-0" or

less

DATE BY

|                 | • •             |   |
|-----------------|-----------------|---|
|                 | <br>            |   |
| Lintel Concrete | Strength = 4000 | _ |

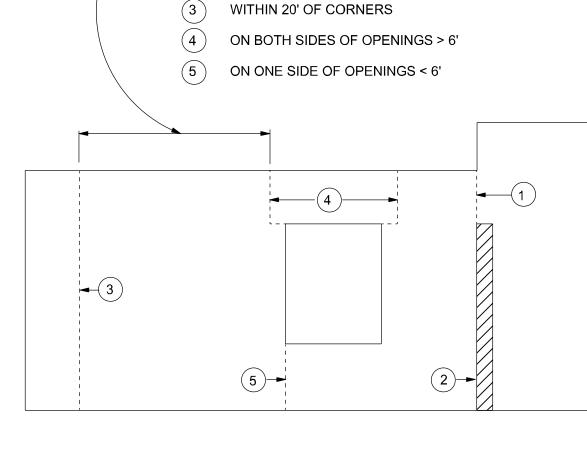
| Α | NONE | 2-#3 |
|---|------|------|
| В | NONE | 2-#4 |
| С | 2-#2 | 2-#4 |
|   |      |      |

### DOORWAY HEADER

| DOOR SIZE | TYPE | FILLED + BEAM |
|-----------|------|---------------|
| 3'-0"     | А    | 6000+ PLF     |
| 5'-0"     | В    | 5689 PLF      |
| 6'-0"     | С    | 4262 PLF      |

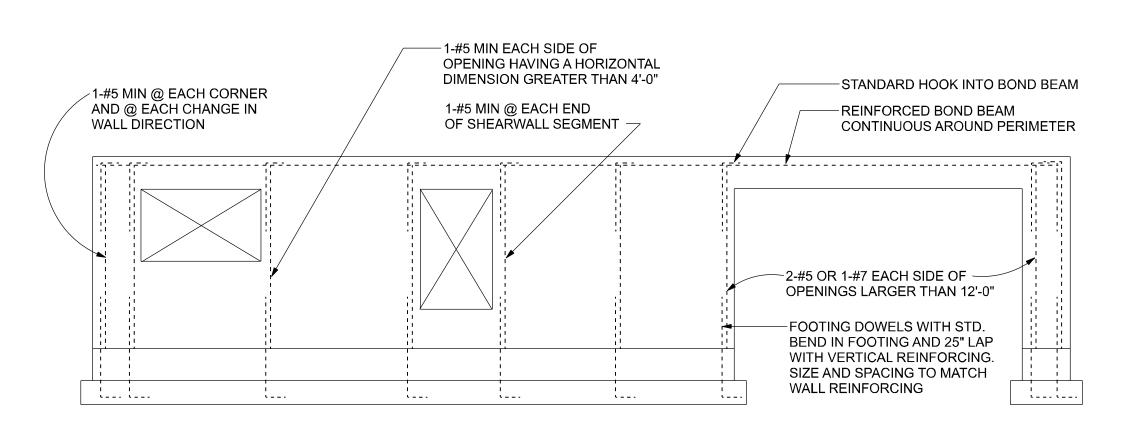
FILLED + BEAM = Acting as composite beam with an 8" perimeter beam 1-#5 rebar in lintel, 1-#5 rebar in perimeter beam





| LAP |  | GENERAL REINFORCING REQUIREMENT   |
|-----|--|---|
|     |  | TOP OF WALL, 1-#5 CONTINUOUS  |
| ·   |  | TOP OF WALL OPENINGS, 1-#5 CONTINUOUS  VERTICAL REINFORCEMENT TO BE 5/8" DIAMETER MINIMUM @ 4'-0" O.C. MAXIMUM.  FOOTING DOWELS WITH STD. BEND IN |
|     |  | FOOTING AND 25" LAP WITH VERTICAL REINF. SIZE AND SPACING TO MATCH WALL REINF.  NOTE:   |
|     | 25" Z5"   LAP   LA | PROVIDE TRUSS TYPE JOINT REINFORCING<br>NOT TO EXCEED 16" VERTICALLY.   |

WALL REINFORCING REQUIREMENTS



# EXTERIOR WALL REINFORCEMENT SUMMARY ONE STORY (TWO STORY SIMILAR)

| to 7'-4"   | 16" | 1-#5   | VERTICAL REINF. TO            |  |  |  |  |
|--|-----|--------|-------------------------------|--|--|--|--|
| over 7'-4"<br>to 11'-4"  | 24" | 1-#5's | MATCH BELOW                   |  |  |  |  |
| over 11'-4"<br>to 14'-0"   | 32" | 1-#5's | 2- #5's                       |  |  |  |  |
| over 14'-0"<br>to 16'-0"   | 40" | 1-#5's | CLOSED BOTTOM<br>LINTEL BLOCK |  |  |  |  |
| <ol> <li>For openings 6'-0" and less ,provide 8" bearing with 1-#5 each side of opening.</li> <li>For openings larger than 6'-0" provide min. 16" bearing with 2-#5's each side of opening</li> <li>Extend horizontal reinforcement min. 16" past each side of opening.</li> <li>Extend vertical reinforcement full height of wall each side of opening.</li> <li>Grout all all reinforcement solid with 3,000 psi grout.</li> <li>Grout lintel solid to depth indicated on schedule unless otherwise on the drawings.</li> <li>Shore all cmu lintels during construction for 48 hours after grout has been placed.</li> </ol> |     |        |                               |  |  |  |  |

| DESIGN BY:                          |
|-------------------------------------|
|                                     |
| TRADEMARK<br>Construction Group, In |
|                                     |

CERTIFIED GENERAL CONTRACTOR CGC1514780 750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254

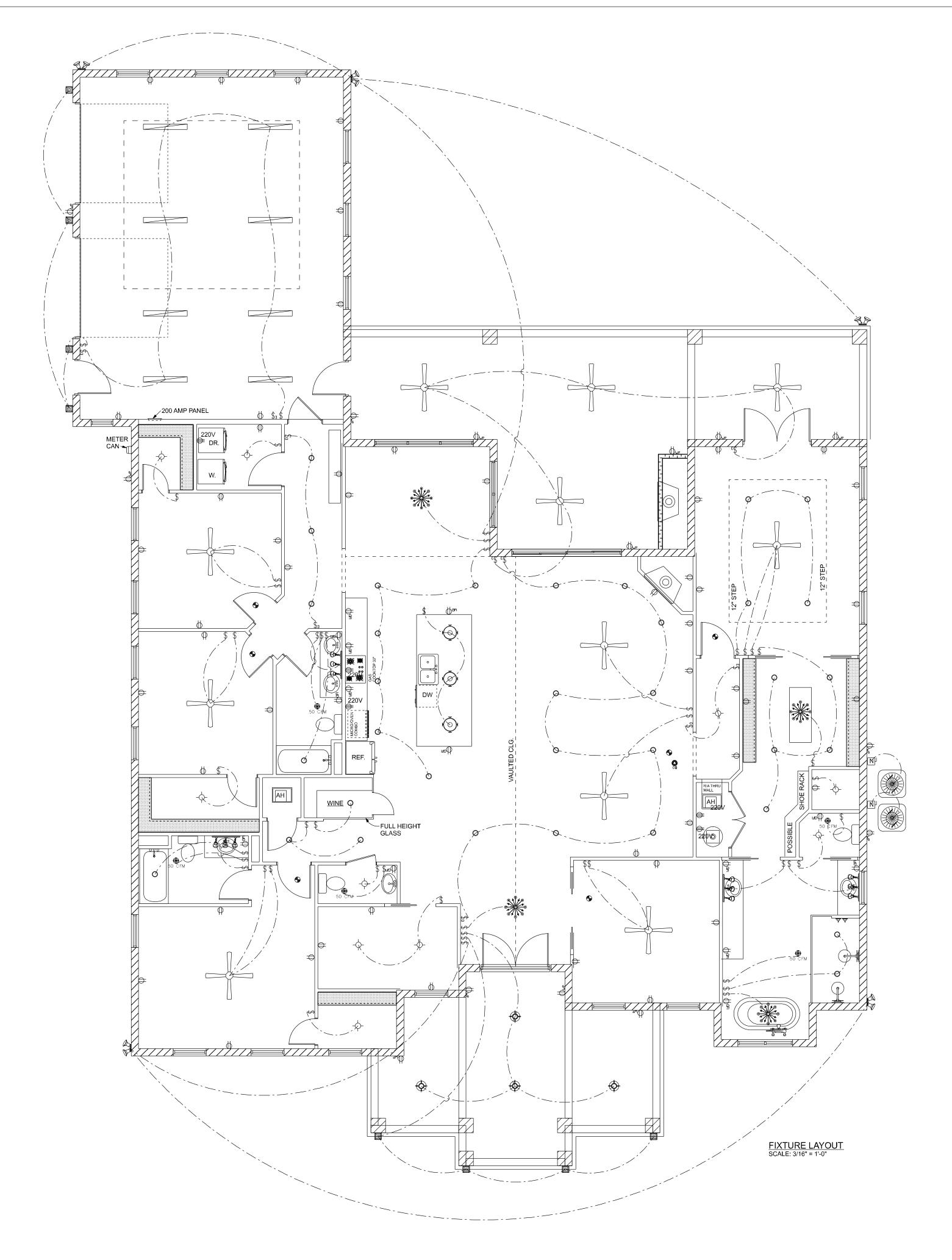
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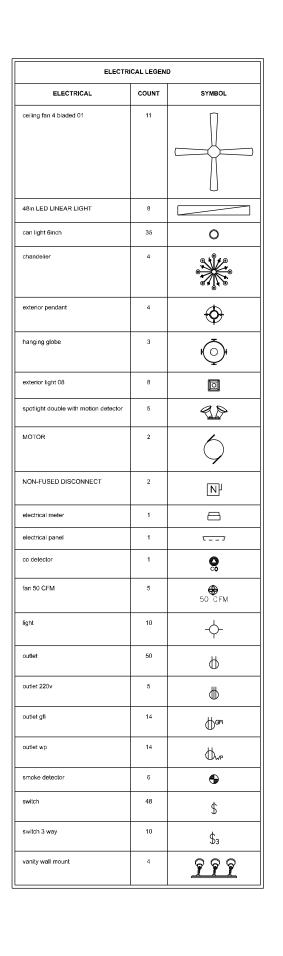


| IFICATE OF AUTHORIZATION<br>NO. 28022                               |                            |
|---|----------------------------|
| SW CREWS FARM TERRACE<br>LAKE CITY, FL 32025<br>PHONE: 386.623.4303 | Brett A. Crews, P.E. 65592 |

|             | DRAWN BY:    |  |
|-------------|--------------|--|
| TERRELL RES | TM           |  |
|             | APPROVED BY: |  |
| MASONRY DE  | ВС           |  |

| TERRELL RESIDENCE | PROJECT NO.:<br>R20.003 |
|-------------------|-------------------------|
| MASONRY DETAILS   | SHEET: <b>A-7</b>       |





#### WIRING NOTES: WIRING, DISTRIBUTION EQUIPMENT AND DEVICES

A. CONDUCTORS: COPPER, IN ACCORDANCE WITH ASTM STANDARDS, SIZE REFERENCE AWG. CONDUCTORS NO. 10 AND SMALLER SIZE SOLID, NO. 8 AND LARGER, STRANDED. INSULATION OF CONDUCTOR THERMOPLASTIC, TYPE THHN (MIN. SIZE NO. 12) ANY WIRE INSTALLED OUTSIDE, UNDERGROUND, IN SLABS OR EXPOSED

TO MOISTURE SHALL
HAVE THWN INSULATION.
B. RACEWAYS: RIGID STEEL CONDUIT, FULL WEIGHT PIPE GALVANIZED, THREADED,
AND MINIMUM 1/2 INCH EXCEPT AS NOTED OR REQUIRED FOR WIRING. ELECTRICAL METALLIC TUBING (EMT), THIN WALL PIPE, GALVANIZED, THREADLESS, COMPRESSION FITTINGS, AND MINIM 1/2" SIZE EXCEPT AS NOTED OR REQUIRED FOR WIRING. FLEXIBLE STEEL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED, AND MINIMUM 1/2" SIZE EXCEPT AS NOTED OR REQUIRED FOR WIRING. PVC CONDUIT, HEAVY DUTY TYPE, SIZE AS INDICATED. SEPARATE RACEWAYS SHALL BE USED FOR EACH VOLTAGE

C: DISCONNECT SWITCHES: GENERAL DUTY, HORSEPOWER RATED FOR MOTOR LOADS 250 VOLT RATING, FUSED OR NON-FUSED AS NOTED; NUMBER OF POLES AS INDICATED. ENCLOSURE NEMA 1 FOR INDOOR USE AND NEMA 3R FOR WEATHERPROOF APPLICATIONS. SWITCH TO BE SQUARE "D" OR EQUAL. D: CIRCUIT BREAKERS: MOLDED CASE, THERMAL-MAGNETIC, QUICK MAKE, QUICK BREAK, BOLT-ON TYPE WITH MANUALLY OPERATED INSULATED TRIP-FREE HANDLE. MULTI-POLE TYPES WITH INTERNAL COMMON TRIP BAR. TERMINALS SUITABLE FOR COPPER OR ALUMINUM CONDUCTORS. INTERRUPTING CAPACITY MINIMUM 10,000 RMS SYMMETRICAL AMPERES CIRCUIT CIRCUIT BREAKERS TO BE SQUARE "D", SIEMENS OR EQUAL, TYPE AS REQUIRED. E: PANELBOARDS: VOLTAGE, PHASING, AND AMPERE RATINGS AS INDICATED, CIRCUIT BREAKER TYPE AS INDICATED, BUSS BARS OF HARD DRAWN COPPER, MINIMUM 98% CONDUCTIVITY, GALVANIZED STEEL BACK BOX, DOOR AND TRIM. ALL CORNERS LAPPED AND WELDED, HARDWARE CHROME PLATED WITH FLUSH LOCK AND CATCH. HINGES SEMI-CONCEALED, 5 KNUCKLES STEEL WITH NONFERROUS PINS. 180 DEGREE OPENINGS. MINIMUM GUTTER SPACE 5-3/4" SIDES, TOP AND BOTTOM. INCREASE SIZE WHERE REQUIRED BY CODE. DIRECTORY HOLDER COMPLETE WITH CLEAR PLASTIC TRANSPARENT COVER INDICATING TYPWRITTEN LIST OF FEEDER CABLES, CONDUIT

EQUAL. A PLASTIC LABEL SHALL BE LOCATED ON EXTERIOR OF PANELBOARD IDENTIFYING THE SYSTEM VOLTAGE, PHASE, AND CURRENT RATING. F: WIRING DEVICES: ALL DEVICES THEIR PRODUCT OF THE SAME MANUFACTURER. WALL SWITCHES AND RECEPTACLES TO BE 20 AMP, 125 VOLT, UNLESS NOTED OTHERWISE. COLOR TO BE SELECTED BY ARCHITECT.
G: DEVICE PLATES: PROVIDE FOR ALL OUTLETS WHERE DEVICES ARE INSTALLED. PROVIDE ENGRAVED MARKING FOR SPECIAL OUTLETS (WHERE NOTED). PROVIDE BLANK PLATES FOR EMPTY OR FUTURE OUTLET BOXES. DEVICE AND DEVICE PLATE COLORS TO BE VERIFIED WITH ARCHITECT AND OWNER.

SIZES, CIRCUIT NUMBER, OUTLETS OF EQUIPMENT SUPPLIED, AND THEIR LOCATION.

CIRCUIT BREAKER TYPE PANELBOARDS TO BE SQUARE "D" TYPE NQOD OR I-LINE, OR

GROUNDING SYSTEM: A. EQUIPMENT: GROUND NON-CURRENT CARRYING METAL PARTS OF PANEL BOARD, RECEWAYS AND ALL LIGHTING FIXTURES. ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTORS.

A. SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS SPECIFIED UNDER RACEWAYS. SUPPORT HORIZONTAL RUNS OF METALLIC CONDUIT NOT MORE THAN 10 FEET APART RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO

B. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES. EXPECT CROSSING WHERE THE RACEWAY SHALL BE AT LEAST 2 INCHES FROM PIPE COVER.

C. CUT CONDUIT ENDS SQUARE , REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASED PIP COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS. D. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 50 FEET IN WHICH WIRING IS NOT INSTALLED. FURNISH PULL WIRE.

E. VERIFY LOCATIONS OF OUTLETS AND SWITCHES.
F. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.
G. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BASES WITH FLEXIBLE CONDUIT; MINIMUM 18 INCHES IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

H. THIS CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL DISTRIBUTION SYSTEM AS REQUIRED; 120/208 VOLT, 1 PHASE, 100 AMP, FOR NEW CONSTRUCTION. ALL TEMPORARY WORK SHALL BE INSTALLED IN A NEAT AND SAFE MANNER. CONTRACTOR TO REMOVE AND SALVAGE ALL ABANDONED ELECTRICAL EQUIPMENT J. THIS CONTRACTOR SHALL WARRANT ALL LABOR AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL WRITTEN ACCEPTANCE.

#### ELECTRICAL PLAN NOTES

INSTALLATION:

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

|         | REVISIONS   | DESIGN BY:                           |
|---------|-------------|--------------------------------------|
| DATE BY | DESCRIPTION |                                      |
|         |             | TRADEMARK<br>Construction Group, Inc |

CERTIFIED GENERAL CONTRACTOR CGC1514780 750 SW MAIN BLVD. LAKE CITY, FL. 32025

(386)755-5254



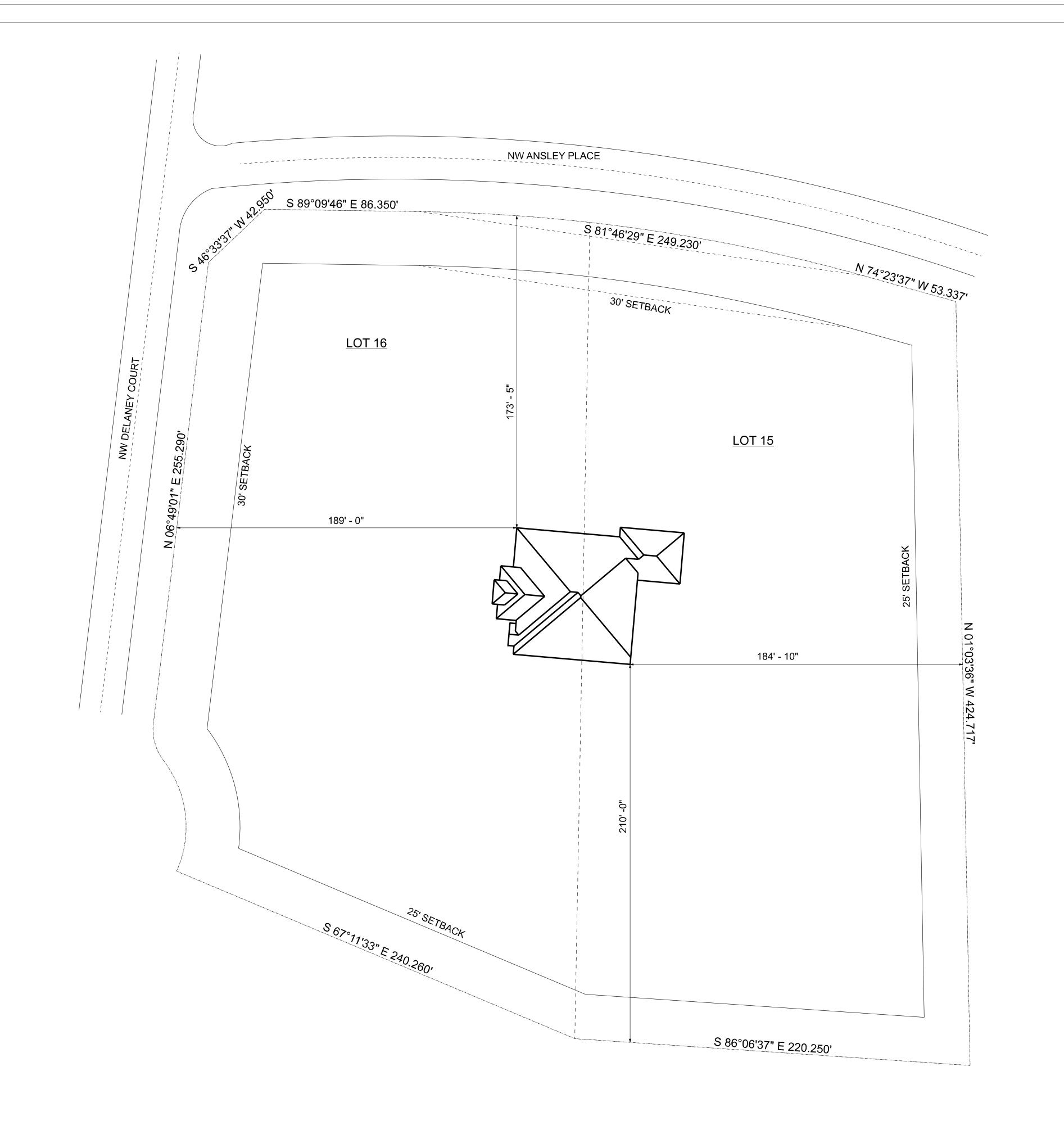
**CERTIFICATE OF AUTHORIZATION** NO. 28022 349 SW CREWS FARM TERRACE

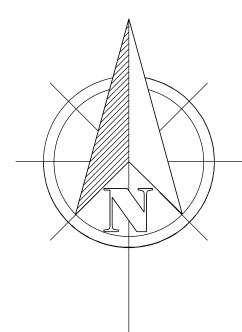
LAKE CITY, FL 32025

PHONE: 386.623.4303

|                            | DRA  |
|----------------------------|------|
|                            | APPF |
| Brett A. Crews, P.E. 65592 |      |

| I BY:   |                   | PROJECT NO.: |
|---------|-------------------|--------------|
| M       | TERRELL RESIDENCE | R20.003      |
| VED BY: | ELECTRICAL PLAN   | SHEET: A-8   |





SCALE: 1" = 30'

#### PARCEL 20-3S-16-02202-115

LOTS 15 AND 16 OF HIGH POINTE, A SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PRRD BOOK 1, PAGES 28 THROUGH 31, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

| DATE BY | REVISIONS<br>DESCRIPTION | DESIGN BY: CERT | ERTIFIED GENERAL CONTRACTOR CGC1514780                     | CERTIFICATE OF AUTHORIZATION<br>NO. 28022 | DRAWN BY:  | TERRELL RESIDENCE          | PROJECT NO.:<br>R20.003 |           |        |
|---------|--------------------------|-----------------|--|---|--|----------------------------|-------------------------|-----------|--------|
|         |                          | _               | 750 SW MAIN BLVD.<br>LAKE CITY, FL. 32025<br>(386)755-5254 | Crews Engineering Services, LLC           | P.O. BOX 970<br>LAKE CITY, FL 32056<br>PHONE: 386.754.4085 | Brett A. Crews, P.E. 65592 | APPROVED BY:            | SITE PLAN | SHEET: |