

This item has been electronically signed and sealed by Joseph Simmons, III, P.E. 02/01/20 on the date and time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a Notary Public Certificate Authority on any electronic copy. FBC 0105A-004



RODERICK J. WALLER
509 HILLVIEW DRIVE
ALTA MONTE SPRINGS, FL 32714

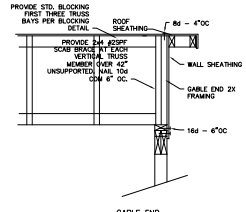
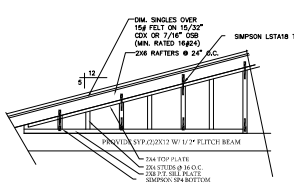
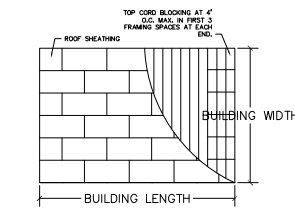
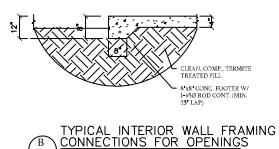
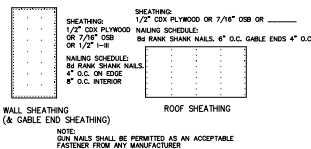
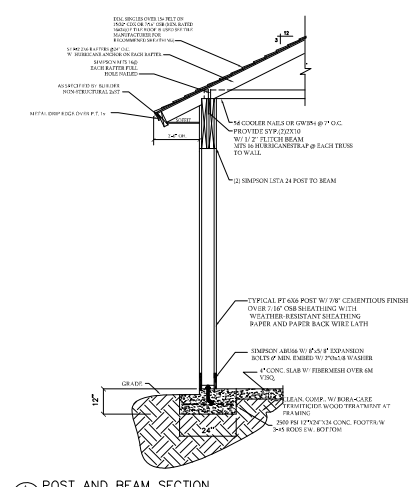
The Architectural and Engineering Design
111 E. MONUMENT AVE., STE. 300, MIAMI, FL 33137
PH. 203-451-4221 DESIGNWEST@GMAIL.COM

SHEET NO
D-1
OF SHEETS

JOSEPH SIMMONS III, P.E.



DESIGNWEST ENGINEERS AND ASSOCIATES INC.



STRUCTURAL NOTES

- ***GRAVITY LOADS***
ROOF - ALL DEAD LOADS PLUS 40 PSF LIVE LOAD
FLOOR - ALL DEAD LOADS PLUS 40 PSF LIVE LOAD
WIND LOADS
160 MPH
CODES
FBC 2020 7TH EDITION SECTION 301.1
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-308)
MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE (ACI 318-83)
AMERICAN CONCRETE INSTITUTE
NATIONAL CONCRETE MASONRY ASSOCIATION
AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- ***MATERIALS***
A. CONCRETE: ALL CONCRETE SHALL BE NORMAL WEIGHT, (USD TYPE CONCRETE) WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS OF AGE.
B. REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE OF NEW BULLET STOCK, CONFORMING WITH ASTM A-615 GRADE 60. CONCRETE PROTECTION FOR REINFORCING BARS: THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED:
FOOTINGS: 3 INCHES
BEAMS AND COLUMNS: 1 1/2 INCHES
SLAB ON GRADE: 2 INCHES

- C. STRUCTURAL STEEL: STRUCTURAL STEEL SHALL BE ASTM A36, FABRICATED AND ERRECTED IN ACCORDANCE WITH AISC SPECIFICATIONS AND STANDARDS. ALL BOLTS TO BE ASTM A307. ALL WELDS TO BE PERFORMED BY CERTIFIED WELDERS ONLY. SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL PRIOR TO FABRICATION.
COLD-FORMED STEEL TUBING: ASTM A500, GRADE B
HOT-FORMED STEEL TUBING: ASTM A501
STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B
ANCHOR BOLTS: ASTM A307, J-TYPE U.G.N.
HEADED STUD TYPE SHEAR CONNECTORS: ASTM A108, GRADE 1015 OR 1020, COLD FINISHED CARBON STEEL, WITH DIMENSIONS COMPLYING WITH AISC SPECIFICATIONS.

- UNFINISHED THREADED FASTENERS: ASTM A307, GRADE A, REGULAR LOW CARBON STEEL BOLTS AND NUTS, PROVIDED EITHER HEXAGONAL, OR SQUARE, HEADS AND NUTS, EXCEPT USE ONLY HEXAGONAL UNITS FOR EXPOSED CONNECTORS.
D. LUMBER: ALL FRAMING LUMBER SHALL BE STRESS GRADE NO. 2 SPF LUMBER WITH MINIMUM F_b = 1200 PSI AND MOISTURE CONTENT NOT TO EXCEED 19%. ALL FRAMING LUMBER IN CONTACT WITH CONCRETE, MASONRY, EARTH, OR STEEL SHALL BE PRESURE TREATED LUMBER.

- E. UNREINFORCED CONCRETE MASONRY: ALL MASONRY WALLS SHALL BE OF CONCRETE BLOCK UNITS CONFORMING TO ASTM C90 PLACED IN RUNNING BOND PATTERN WITH TYPE "S" MORTAR AND REINFORCED WITH DWP-C-WALL OR EQUAL EVERY OTHER COURSE.
F. EXCAVATION AND BACKFILL: ALL EXCAVATIONS SHALL BE KEPT DRY. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE, UTILITIES, PIPING, ETC. PROVIDE END BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISTING FOUNDATIONS OR STRUCTURES. BACKFILL IN HORIZONTAL LAYER, MAXIMUM OF 12" THICK, AND COMPACT TO A MINIMUM OF 95% MAXIMUM STANDARD PROCTOR DENSITY. PLACE BACKFILL SYMMETRICALLY, TAKING CARE TO PREVENT ANY ECCENTRIC LOADING OR REDDING ACTION AGAINST WALLS OR BUILDINGS.

Building design shall conform with the 2020 Florida Building Code, Edition and include the applicable wind criteria (Ultimate design wind speed (Vult) and 3-second gust minimum wind speed (Vasd) both in miles per hour, wind exposure and risk category. All documents are properly signed, dated and sealed as required for the method of submittal. (FBC 107)

