



CONCRETE

Concrete shall be ready mix and have a minimum compressive strength of 2500 PSI for foundation and slab on grade, 3000 PSI for structural slabs 3000 PSI for beams, columns at 28 days. All concrete work shall comply with the requirements of the ACI Building Code (ACI 318—11 Edition), the ACI Detailing Manual (ACI 315/Latest Edition), and the specifications for structural concrete for buildings (ACI 301/Latest Edition). Concrete cover for reinforcing steel shall be as required by the latest ACI specifications. Welded wire fabric shall comply with ASTM A-185, unless otherwise specified. Place fabric 2" clear from top of the slab in slab on grade Lap all WWF a minimum of 6 inches unless otherwise noted. All reinforcing steel shall be manufactured from high strength billet steel conforming to ASTM Designation A-615 Grade 60. Lap all bars minimum 48 diameters unless otherwise noted on drawings. All hooks shown in reinforcement shall be ACI recommended hooks unless otherwise noted.

STRUCTURAL STEEL:

All structural steel shall be fabricated and erected in accordance with the latest AISC code. Structural steel shall conform to ASTM Specification A36. All steel tubing shall conform to ASTM Specification A-500 Grade B (FY=46KSI). All steel to have a shop coat of rust inhibitive paint. All shop and field welding shall be performed by welders qualified, as described in "American Welding Society's Standard Qualification Procedure" (ASW D1.1), to perform the type of work required. All steel welding rods shall be E70XX electrodes.

MASONRY

This project is designed as engineered unit masonry. 2014 FBC 2121.2 structural design shall be in accordance with ACI 530—11 / ASCE 5—02 / TMS 402—02, building code requirements for masonry structures and the commentary on building code requirements for masonry

Masonry units shall be ASTM C—90 Type II with minimum compressive strength of 1500 psi on net area of individual units. All CMU shall be laid in a full bed of mortar in running bond U.O.N. All reinforcing steel shall be manufactured from high strength billet steel conforming to ASTM Designation A-615 Grade 60.

All mortar shall be Type S in accordance with ASTM Specification C—270 with a minimum compressive strength of 1800 PSI at 28 days. No testing for mortar strength is required for this project.

Grout shall be a high slump mix (9"+/-1") in accordance with ASTM Specification C-476 having a minimum compressive strength of 2000 PSI. No testing for grout strength is required for this project.

Provide 9 guage horizontal joint reinforcement (ladder type only) at every second course for all exterior walls.

All concrete masonry bearing and shear wal<u>ls must be inspected by a qualified engineer</u> just prior to pouring of the foundation.

SOIL STATEMENT:

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

THE ENGINEER HAS VISITED & OBSERVED THE SITE AND FOUND THE FOUNDATION CONDITIONS ARE SAND AND LOOSE ROCK, WICH ARE SIMILAR TO DESIGN BASIS. FURTHERMORE, UPON BREAKING OF GROUND, A LETTER SHALL BE SUBMITTED TO THE BUILDING OFFICIAL VERIFYING AND ATTESTING THAT THE SITE CONDITIONS ARE SIMILAR TO THOSE WHICH THE DESIGN WAS BASED ON. ASSUMED BRG. CAP. IS 2000 P.S.F.

SOIL TREATMENT NOTES: 1816.1.1 & 1816.1.7

. Termite protection shall be provided by registered Termitecides or approved methods of termite protection labeled for use as a preventative treatment to new construction.

2. A certificate of compliance for protection against Subterranean Termites shall be issued to the Building Dept. by a liscensed Pest control company which contains the following statement:

"The building has received a complete treatement for the prevention of subterranean Termites. Treatment is in accordance with rules & laws established by the FDA and Consumer Services.

Foundation & Column Schedule		
MARK	DIMENSIONS	REINFORCING
(EX)WMF16	EXISTING 16"x 12" MONOLITH CONC. WALL FTG.	W/(2) -#5 CONTINUOUS & #5 Transverse @ 24" O.C.
FC	1 #5 Vert. in Concrete filled Block Cells @ 48" O.C. Max. & Adj. to open'gs between 3' to 8' U.O.N.	#5 From Ftg. to Tie Beam Top Stl.& W/8" Bend top/Bott.
XTC	8"X 16" TIE COLUMN	EXISTING W/ (4) # 5 DIA. & # 3 TIES @ 12" O.C.
XWF16	12"x 16" CONC. FOOTING	EXISTING

Codes & standards

Wind loads as per Florida Building Code, 2020 and

DRILL& EPOXY (2) # 5 DIA INTO EXISTG. CON. FOOTER

ANSI/ASCE 7-16

Wind Speed=175 MPH (3 Second Gust)

Structure Type= II Exposure = C

The project was designed in accordance with the building code requirements for reinforced concrete (ACI 318-14 Edition).

ASD/13TH Edition. Building Code Requirements and Specifications for Masonry structures (ACI 530-13/ACI 318-14/TMS 402-08). Building Code Requirements and National Design Specifications for Wood Construction (NDS-2015)

SECTION AND DETAILS

All details, sections and notes shown on the drawings are intended to be typical and shall apply to similar situations elsewhere unless otherwise noted.

FOUNDATION
Bottom of footings to bear on soil capable of safely supporting 2,000 psf.

10/15/21 1/4° = 1'-0°

DRAWN BY:

OWNER: Nachum Caplan & Alyssa Cohen PROJECT :Garage enclosure to Bath & Study Addition

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DATE:

REVISIONS

