

DESIGN NOTES:

THIS ENCLOSURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FIFTH EDITION (2014), ASCE 7-10 USING:

Vult= _____ MPH, EXPOSURE ' _____ ', HVHZ YES / NO

SEISMIC DESIGN TO RISK CATEGORY II, IMPORTANCE FACTOR 1.0, SS=0.05533, S1=0.02187, SITE CLASS D, SDS=0.059, SD1=0.035, SEISMIC DESIGN CATEGORY A, BASIC SEISMIC FORCE-RESISTING SYSTEMS ALL OTHER SELF-SUPPORTING STRUCTURES, DESIGN BASE SHEAR 25 LBS (WEIGHT OF TRIBUTARY MAX=500LB, UP TO 10FT ABOVE GRADE), CS=0.047, R=1.25, NON-BUILDING EQUIVALENT LATERAL FORCE PROCEDURE ANALYSIS.

SOIL TO BE WELL COMPACTED TO 95% OPTIMUM DENSITY BY MECHANICAL MEANS. MINIMUM SOIL BEARING CAPACITY = 2000PSF

ALL SPECIFIED CONCRETE AND EPOXY TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. DEPTH OF CONCRETE SHALL BE 1.5X ANCHOR EMBEDMENT MINIMUM IN ALL CASES.

ALL LUMBER SHALL BE A MINIMUM OF PRESSURE TREATED #2 SYP OR BETTER WITH A MINIMUM FIBER STRESS OF 1100 PSI IN BENDING.

ANCHORS: ALL ANCHORS SHALL BE PLACED GREATER THAN 3 INCHES FROM ANY CONCRETE/MASONRY FACE, 1 1/2" MINIMUM PENETRATION EXCLUDING STUCCO AND FINISHES WITH A 1/2" WASHER OR HEAD DIAMETER MINIMUM.

ALL FASTENERS TO BE #12 X 34" OR GREATER 2024-T4, 18-8 SERIES 300 NON-MAGNETIC STAINLESS STEEL, OR CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH J.3.4, SPECIFICATIONS FOR ALUM. STRUCTURES - SECTION 1, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.

ALL PRIMARY MEMBERS SHALL BE CONNECTED WITH POSITIVE FASTENERS (THRU-BOLTS, POP RIVETS, OR OTHER SPECIFIED ANCHOR).

PROTECTION OF MATERIALS: THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALUMINUM MEMBERS FROM DISSIMILAR METALS TO PREVENT ELECTROLYSIS.

ALUMINUM IN CONTACT WITH WOOD OR STEEL SHALL BE PROTECTED WITH HEAVY BOOTED BITUMENOUS PAINT OR WATER WHITE METHACRYLATE LACQUER. ALTERNATIVELY, THE WOOD/STEEL MAY BE PAINTED WITH TWO COATS OF ALUMINUM EXTERIOR HOUSE PAINT AND ALL JOINTS SEALED WITH 15 YEAR SILICONE CAULKING OR BETTER.

ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.

MATERIALS: ALL EXTRUDED STEEL MEMBERS SHALL BE ASTM A36 STEEL OR BETTER.

ALL EXTRUDED ALUMINUM MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6063-T6 OR BETTE.R

FOR SCREENED ENCLOSURES:

THIS SYSTEM IS DESIGNED USING 20 X 20 X 0.013" SCREEN MESH OR GREATER OPENING SIZE (60% OR MORE OPEN). DESIGN LOADS USED PER FBC TABLE 2002.4

SCREENS SHALL BE ATTACHED WITH FLAT OR ROUND SPLINE.

ALL DOORS SHALL BE SELF CLOSING, SELF LATCHING WITH A 60" HIGH DOOR HANDLE MINMUM WHERE ANY POOL OR SPA EXISTS. DOOR LOCATION AND USE OF JAMB EXTRUSION PART 202 IS OPTIONAL.

WHERE SCREEN PANELS ARE SPECIFIED HEREIN AS REMOVABLE, THEY SHALL FULLY COMPLY WITH FBC 2002.7. SPECIFICALLY NOTING THAT REMOVABLE SCREEN MAY CONSIST OF REMOVABLE PANELS, RETRACTABLE PANELS, OR BY DESIGNATING SPECIFIC SCREEN PANELS IN THE DESIGN IN WHICH THE SCREEN IS TO BE REMOVED BY CUTTING THE SCREEN. REMOVABLE PANELS SHALL BE REMOVED, RETRACTABLE PANELS SHALL BE PLACED IN THE RETRACTED POSITION WITHOUT INCREASING THE LOAD ON THE AFFECTED AREA. SCREEN DESIGNATED IN THE DESIGN TO BE CUT SHALL BE COMPLETELY CUT WHEN WIND SPEEDS ARE FORECAST TO EXCEED 75 MPH. REMOVABLE SCREEN PANELS, AND SCREEN PANELS IDENTIFIED TO BE CUT SHALL BE CLEARLY IDENTIFIED ON ADJACENT STRUCTURAL MEMBERS WITH HIGHLY VISIBLE PERMANENT LABELS, AT EACH PANEL, OR BY OTHER MEANS APPROVED BY THE LOCAL BUILDING DEPARTMENT.

FOR GLASS/PANEL ENCLOSURES:

THIS ENCLOSURE IS CALSSIFIED PER FBC 2002.6 AND AAMA 2100 AS A CATEGORY I, II, OR III NON-HABITABLE SUNROOM ONLY. ELECTRICAL, HVHZ, AND OTHER NON STRUCTURAL CONSIDERATIONS ARE OUTSIDE THE SCOPE OF THIS CERTIFICATION.

THE EXISTING BUILDING ENVELOPE SHALL NOT BE MODIFIED OR REMOVED WITH THE ADDITION OF THIS ENCLOSURE.

IN THE CASE WHERE IMPACT GLAZING IS INSTALLED IN THIS ENCLOSURE, THE SYSTEM AS A WHOLE DOES NOT QUALIFY AS AN APPROVED IMPACT PROTECTION SYSTEM FOR THE HOST STRUCTURE. IF REQUIRED, AN APPROVED IMPACT PROTECTION SYSTEM SHALL BE PLACED ON THE GLAZED SURFACES OF THE HOST STRUCTURE TO PROVIDE IMPACT INTEGRITY.

OTHER GENERAL NOTES

ALL WORK HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE AS STATED HEREIN. ANY LOCAL AMENDMENTS SHALL BE CONSIDERED BY THE CONTRACTOR AND MAY REQUIRE ADDITIONAL ENGINEERING.

ENGINEERING EXPRESS HAS NOT VISITED THIS JOBSITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR-SUPPLIED DATA AND MEASUREMENTS. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT MUST REMAIN WITHIN THE LIMITATIONS SPECIFIED HEREIN. WORK SHALL BE FIELD VERIFIED BY OTHERS PRIOR TO CONSTRUCTION. ENGINEERING EXPRESS SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.

ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

**** ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.**

FRANK L. BENNARDO, P.E.
PE# 0046549



IF CHECKED, CERTIFYING P.E. APPEARS BELOW
FRANK L. BENNARDO, P.E.
46549

VALID FOR 1 PERMIT ONLY U.N.O.
VALID ONLY WITH ORIGINAL ENGINEER SEAL

ENGINEERING EXPRESS
CORPORATE OFFICE:
160 SW 12th AVE, SUITE 106
DEERFIELD BEACH, FL 33442
P: (954) 354-0660 F: (954) 354-0443
E: HELLO@ENGINEERINGEXPRESS.COM
ENGINEERINGEXPRESS.COM
CERT OF AUTH #9885

REMARKS	DRWN	CHKD	DATE
INIT. ISSUE			

THIS DOCUMENT IS THE PROPERTY OF ENGINEERING EXPRESS, AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF ENGINEERING EXPRESS. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.

COPYRIGHT ENGINEERING EXPRESS®

SCALE: N.T.S.

1 OF 2