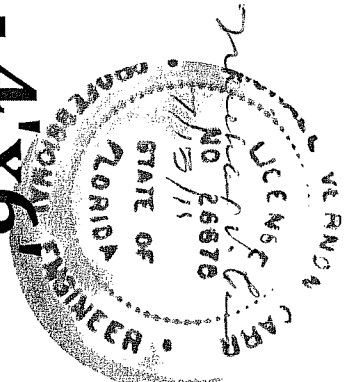


RESIDENTIAL STORM SHELTER - 4'X6'

(TORNADO SAFE ROOM)



CONFORMS TO FEMA 320 AND 361 DESIGN AND CONSTRUCTION GUIDANCE FOR COMMUNITY SAFE ROOMS (RESIDENTIAL ASPECTS) AUGUST 2008
OCCUPANCY LOAD 8 (3SF PER OCCUPANT)

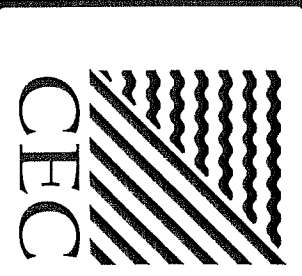
S.1 COASTLINE ENGINEERING & CONSTRUCTION

STRUCTURAL NOTES

DRAWN BY: RING
REVIEWED BY: MWC
DATE: 7/5/2011
PROJECT NAME: PROJECT NUMBER
PROJECT LOCATION

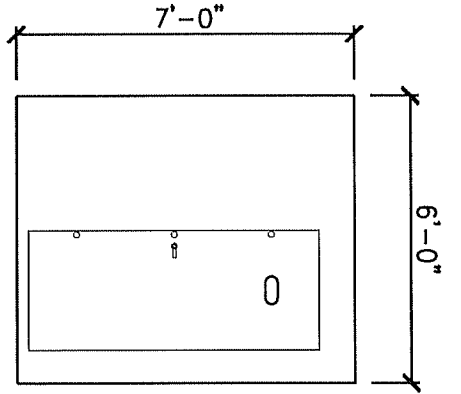
+36 STORM SHELTER
11-069

PHONE: (850) 230-8812
FAX: (850) 230-8519
13305 PANAMA CITY BEACH PARKWAY
PANAMA CITY BEACH, FLORIDA

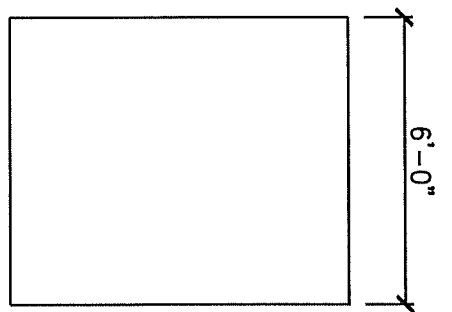


STRUCTURAL NOTES:

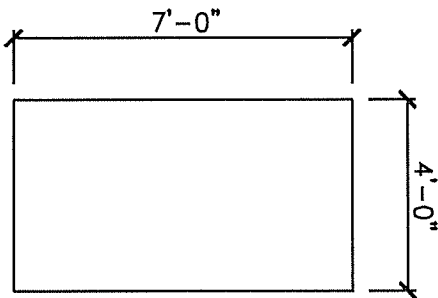
- * FLORIDA BUILDING CODE 2004 RESIDENTIAL & GUIDELINES FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION, IBHS
- * STRUCTURE DESIGNED AS AN ENCLOSED BUILDING ABOVE GROUND
- * INTERNAL PRESSURE COEFFICIENT PER FIG. 6-5 ASCE 7-05 (+0.55 & -0.55)
- * DESIGN IS BASED ON WIND SPEEDS TO 300 MPH
- * 3 SECOND GUST
- * EXPOSURE CATEGORY C
- * IMPORTANCE FACTOR 1.0
- * TOPO(K_e) & DIRECTIONALITY FACTORS(K_d) 1.0
- * ROOF LIVE LOAD (PSF) 16
- * SOIL BEARING CAPACITY (PSF) 2,000
- * CONCRETE F_c (PSI) PER ACI 318 2,500
- * REINFORCING STEEL GRADE 40, ASTM A615
- * SELECT FILL UNDER SLAB TO BE CLEAN AND COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) TREAT FOR TERMITES
- * ASSURE 16 SQUARE INCHES OF VENTILATION (TOTAL (2 SQ. IN. PER OCCUPANT))
- * DESCRIPTION OF STORM SHELTER UNIT
- * UNIT CONSISTS OF 1/4" STEEL PLATE WALLS, DOORS AND ROOF (A36 STEEL) REINFORCED WITH 2"X2"X1/4" TUBE STEEL BRACING
- * FULLY WELDED CONSTRUCTION* GASKETED LATCHED SAFETY STEEL DOOR WITH VENT
- * UNIT ANCHORED WITH 5/8" DIAMETER HILTI HIT-ITZ ANCHORS EMBEDDED 3 5/8" MINIMUM INTO CONCRETE SLAB -5' EDGE CLEARANCE MIN
- * ON GRADE EXISTING SITE CONDITIONS:
- * CONTRACTOR TO VERIFY THAT SOIL IS FREE OF MUCK, CLAY, SILT ORGANIC DEBRIS AND OTHER DELETERIOUS MATERIALS
- * CONTRACTOR VERIFY FLOOD ZONE AND WATER TABLE PRIOR TO START OF CONSTRUCTION AND ASSURE FINISH FLOOR ELEVATION IS AT THE REQUIRED ELEVATION ABOVE STORM SURGE
- * THE CONTRACTOR (OWNER / BUILDER) SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS FOR THE PROJECT, WHERE JOB CONDITIONS PREVENT OBTAINING DIMENSIONS OR RESULTS AS SHOWN OR SPECIFIED, THE CONTRACTOR (OWNER / BUILDER) SHALL CONSULT THE ARCHITECT / ENGINEER FOR RESOLUTION
- * THE CONTRACTOR (OWNER / BUILDER) IS RESPONSIBLE THAT EASEMENTS AND SETBACKS ARE NOT ENCROACHED.



FRONT



REAR



ENDS

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

MICHAEL V. S. NO. 1
LICENSED PROFESSIONAL ENGINEER
7/13/11
STATE OF FLORIDA

S.3

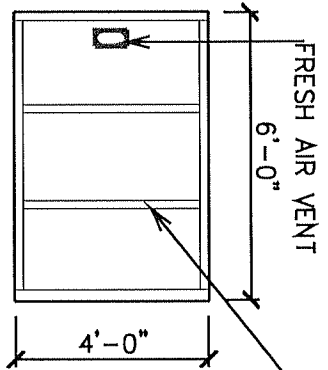
COASTLINE ENGINEERING
& CONSTRUCTION

SHEET

REVISIONS
No. Date By
DRAWN BY: PROJECT NAME
REVIEWED BY: PROJECT NUMBER
DATE: PROJECT LOCATION
SCALE: 1/4"=1'

PROJECT NAME
PROJECT NUMBER
PROJECT LOCATION
CITY/STATE/ZIP
PHONE: (850) 230-8812
FAX: (850) 230-8319
EMAIL
13305 PANAMA CITY BEACH PARKWAY
PANAMA CITY BEACH, FLORIDA
32407





FRESH AIR VENT

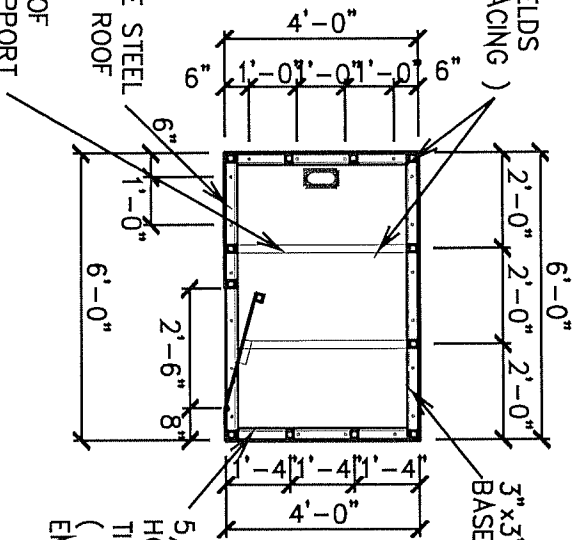
6'-0"

4'-0"

2"x2"x1/4" TUBE
STEEL (STITCH WELDS
6" LONG & 6" SPACING)

1/4" PLATE STEEL
@ SIDES & ROOF
ROOF
SUPPORT

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



3"x3"x3/8" STEEL
BASE ANGLE

5/8" PRE DRILLED
HOLES FOR 1/2" DIA.
TITEN SCREW ANCHORS
(NLT 18 ANCHORS)
EMBEDDED 3 5/8" (MIN.)

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

S.2

COASTLINE ENGINEERING
& CONSTRUCTION

SHEET

REVISIONS
No. Date By
DRAWN BY: DATE: SCALE: 1/4"=1'
DRAWNBY: REVIEWEDBY: PROJECT NAME: PROJECT NUMBER: PROJECT LOCATION: CITY/STATE/ZIP

PHONE: (850) 230-8812
FAX: (850) 230-8519
EMAIL
13305 PANAMA CITY BEACH PARKWAY
PANAMA CITY BEACH, FLORIDA
32407

MICHAEL VERNON
LICENSED PROFESSIONAL ENGINEER
7/13/11

