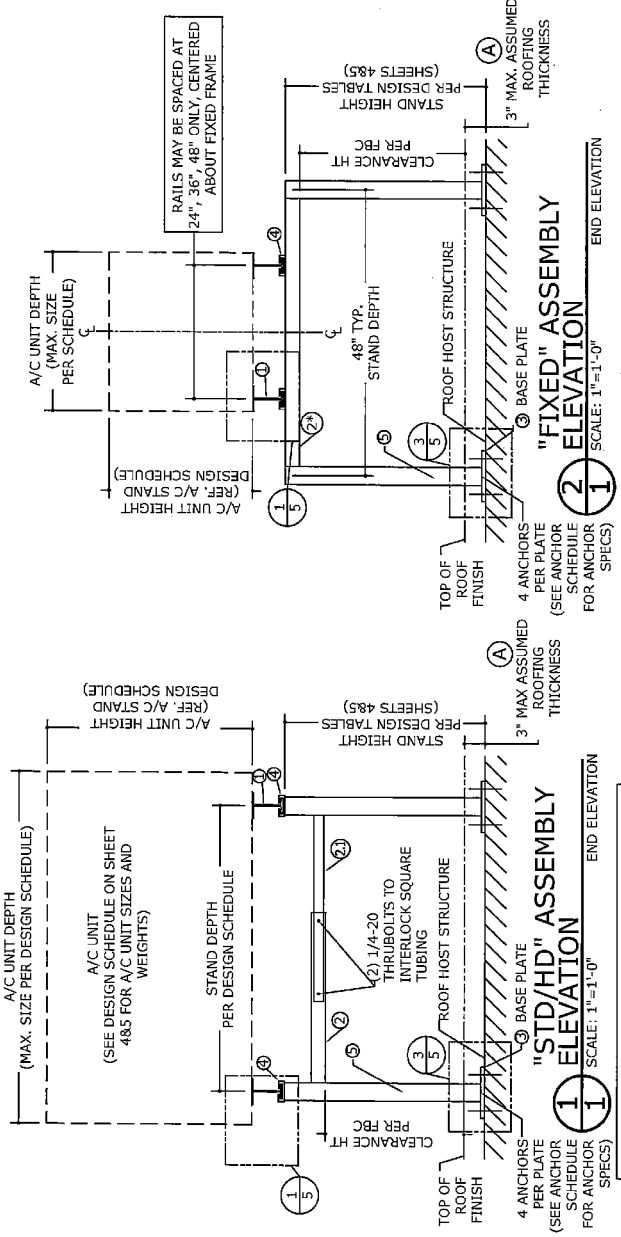
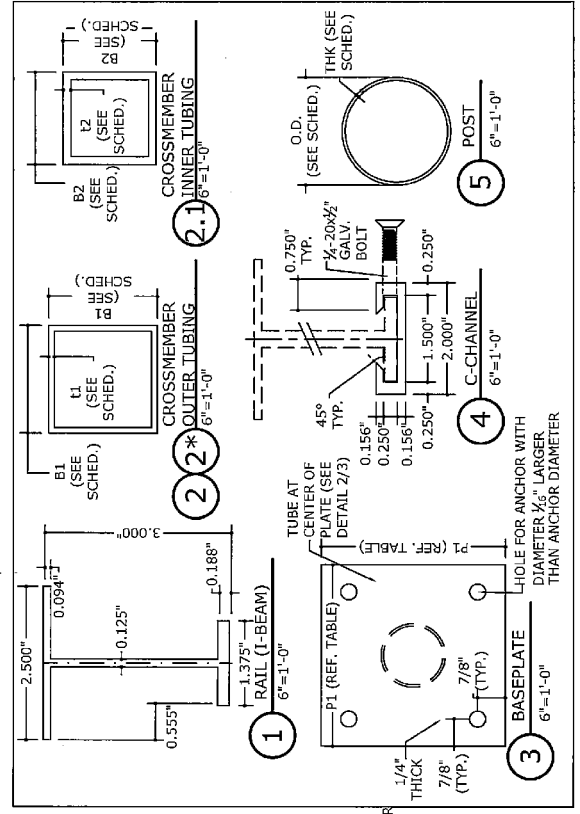


ALUMINUM STANDS FOR MECHANICAL UNITS

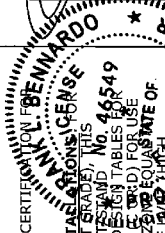


(A) UTILIZE NEXT-HIGHEST STAND HEIGHT FOR LARGER ROOF THICKNESS. FOR ROOFING WITHOUT INSULATION OMIT 2\"/>



USER NOTE:

THIS DOCUMENT SHALL BE USED AS A CERTIFICATION OF THE FOLLOWING:
GROUND MOUNTED A/C STAND, INSTALLED PER THE FOLLOWING:
 GROUND MOUNTED A/C STAND, INSTALLED PER THE FOLLOWING:
 DOCUMENT CERTIFIES ALLOWABLE UNIT/STAND CONFIGURATIONS AND PROVIDES (3) DESIGN TABLES FOR THE ALLOWABLE EXPOSURE CATEGORIES (A, B, C, D) FOR USE WITH INSTALLATIONS WITHIN A WIND ZONE THAT EQUALS OR EXCEEDS 175 MPH INSIDE OR OUTSIDE THE WIND ZONE WHICH VELOCITY HURRICANE ZONE)



ROOF-TOP MOUNTED A/C STAND INSTALLATIONS:
 DOCUMENT CERTIFIES ALLOWABLE UNIT/STAND CONFIGURATIONS AND PROVIDES (3) DESIGN TABLES FOR THE ALLOWABLE PRESSURE OF EACH CONFIGURATION.
 THE ALLOWABLE WIND PRESSURE FOR EACH CONFIGURATION CAN BE CROSS REFERENCED WITH THE "WIND LOAD DESIGN PRESSURE FOR ROOF-TOP MOUNTED UNITS" TABLE IN ORDER TO DETERMINE THE ALLOWABLE EXPOSURE CATEGORY (A, B, C, OR D) FOR USE WITH INSTALLATIONS WITHIN AND OUTSIDE THE WIND ZONE WHICH EQUALS TO VELOCITY=175 MPH.

GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FIFTH EDITION (2014) FOR USE WITHIN AND OUTSIDE OF THE HIGH VELOCITY HURRICANE ZONE.
- MAXIMUM DIMENSIONS AND WEIGHT OF MECHANICAL UNITS SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, MINIMUM 100LB OR MAXIMUM AS LISTED -HEREIN.
- CONTRACTOR SHALL INSURE THAT EACH INSTALLATION ASSEMBLY MEET THE MINIMUM CLEARANCE HEIGHT PER FPC SECTION 1509.6.5 FOR NON-HWHz APPLICABLE TO THE LOCAL JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
- REACTION FORCES LISTED FOR USE WITH HOST STRUCTURE VERIFICATION ARE CALCULATED USING AS METHODOLOGY. DESIGN PROFESSIONAL OF RECORD SHALL VERIFY APPLICATION AND/OR ADDITIONAL FACTORS FOR USE WITH HOST STRUCTURE VERIFICATION.
- CONCRETE CURABLE #12 SAE GRADE 5 CARBIDE PLATED OR OTHERWISE COMPLY WITH 1.3.1. SPECIFICATIONS FOR ALUMINUM STRUCTURES. THE ALUMINUM ASSOCIATION INC., FPC R4406.1.8. IN ADDITION TO APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STAINLESS STEEL FASTENERS SHALL BE ASTM F953 316 SS COLD WORKED CONDITION. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR ALL SCREW CONNECTIONS.
- ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6.
- ALL EXISTING CONCRETE SUBSTRATE SHALL HAVE MINIMUM 1\"/>

- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, OR ANY INDIVIDUALS WHOSE NAMES OR LOGOS ARE USED IN CONNECTION WITH THIS DOCUMENT, DOES NOT CONSTITUTE AN ENDORSEMENT OR GUARANTEE OF THE DESIGN OR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND FROM DEVIATIONS OF THIS PLAN.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THIS DOCUMENT IS HEREBY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- AC STANDS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER FRAME ASSEMBLY CONTAINING THE FOLLOWING:
 PRECISION ALUMINUM, MIAMI FLORIDA
 FLORIDA BUILDING CODE APPROVED

ENGINEERING EXPRESS®
 CORPORATE OFFICE:
 160 SW 12TH AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 PH: (954) 480-6919
 1339 SW 1ST WAY
 DEERFIELD BEACH, FL 33441
 PH: (954) 480-6919

FBC 5TH EDITION (2014) PRODUCT APPROVAL #FL16921
 HVHZ & NON-HVHZ APPLICATIONS
 ALUMINUM A/C STANDS

CENT. OF AUTH. #8985
 ENGINEERING EXPRESS, INC.
 160 SW 12TH AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 PH: (954) 354-0669 F: (954) 354-0404
 ENGINEERINGEXPRESS.COM

08/28/2015
 BENJAMIN S. KRIEGER

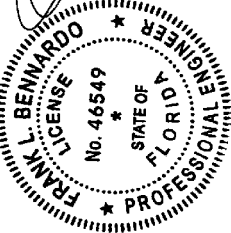
DATE	DESCRIPTION	BY	CHKD
07/20/09	ISSUE	TSB	FLB
09/17/12	REVISED	CSL	TSB
08/15/15	REVISED (2014)	CSL	FLB
08/25/15	BASE OF USER REVIEW	FLB	FLB

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

08/28/2015
Professional Engineer



ENGINEERING EXPRESS
CORPORATE OFFICE
160 SW 12th Ave, Suite 106
Deerfield Beach, FL 33442
P: (954) 354-6660 F: (954) 354-0435
E: HELLO@ENGINEERINGEXPRESS.COM
CERT OF AUTH #9885

PRECISION ALUMINUM PRODUCTS
1339 SW 1ST WAY
DEERFIELD BEACH, FL 33441
PH: (954) 480-6919
ALUMINUM A/C STANDS
HVHZ & NON-HVHZ APPLICATIONS
FBC 5TH EDITION (2014) PRODUCT APPROVAL #FL16921

DATE	ISSUE	REVISIONS	REMARKS
07/28/09	T88	FLB	INITIALS
06/15/12	T88	CSL	REV 2010 FBC
06/15/12	CSL	CSL	REV FBC 6TH (2014)
06/15/12	FLB	FLB	BASE OF USER REVIEW
06/15/12	FLB	FLB	REV 1710 AND 1712

15-2480a
SCALE: 1/8" = 1'-0"
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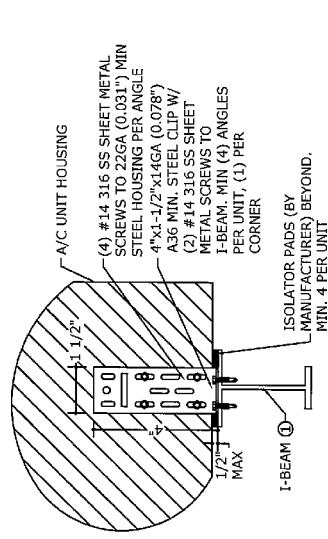
ANCHOR SCHEDULE
FOR USE WITH DETAIL 3 ON THIS SHEET ONLY

ANCHOR TYPE	HOST STRUCTURE	ANCHOR DESCRIPTION
1	CONCRETE	(4) 1/4" POWERS WEDGE-BOLT CONCRETE ANCHORS WITH 6/8" MIN. WASHER, 2-1/2" EMBEDMENT & 3" MIN EDGE DISTANCE; 2-1/4" SPACING PER STD. BASE PLATE; 3-1/4" SPACING PER TYP. BASE PLATE.
2	STEEL	(4) 3/8" SAE GRADE 2 GALVANIZED BOLTS W/ NUT & 3/4" MIN. WASHER, TO STRUCTURAL A36 STEEL MEMBERS (0.27" MIN HOST THICKNESS)
3	WOOD	USE DETAIL 9/6. USE DETAIL 9/6 FOR GROUND MOUNT ONLY WHEN APPROVED BY ENGINEERING OFFICIAL (SEE NOTES BELOW)
4	STEEL	(4) #14 SAE GRADE 5 SHEET METAL SCREWS WITH 5/8" MIN. WASHER TO STRUCTURAL A36 STEEL MEMBERS (1/8" MIN HOST THICKNESS)

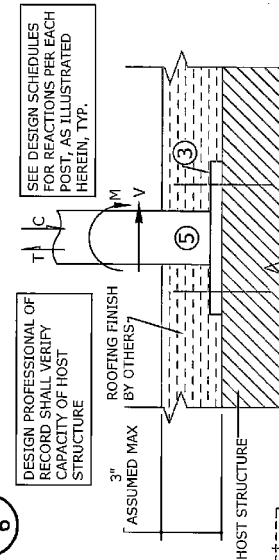
ANCHOR NOTES:

IT IS UP TO THE INSTALLER TO ENSURE THAT THE HOST STRUCTURE IS SOLID AND CREATES A FIXED CONNECTION WITH THE AC STAND IN THAT ROTATION IS STRICTLY PREVENTED. IF THIS IS AT ALL IN QUESTION, THE BUILDING OFFICIAL SHALL REQUIRE A SITE SPECIFIC EVALUATION TO ENSURE STAND STABILITY

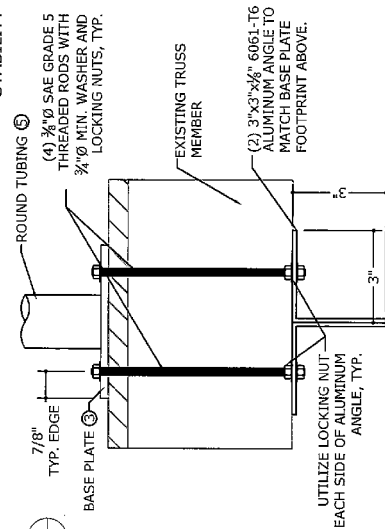
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE FOR EACH ANCHOR.
3. ALL CONCRETE SUBSTRATE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. CONCRETE SUBSTRATE THICKNESS SHALL BE GREATER THAN OR EQUAL TO 1.5" ANCHOR EMBEDMENT. INSTALL CONCRETE ANCHORS TO UN-CRACKED CONCRETE ONLY.
4. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES ROOFING FINISHES.



2 A/C UNIT TIE-DOWN DETAIL

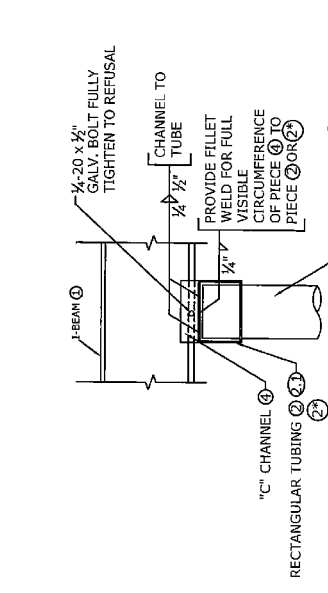


4 BASEPLATE REACTIONS
FOR ILLUSTRATIVE PURPOSES ONLY

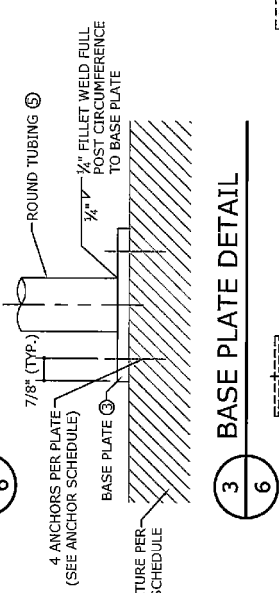


5 ALTERNATE BASE PLATE ATTACHMENT AT WOOD/STEEL

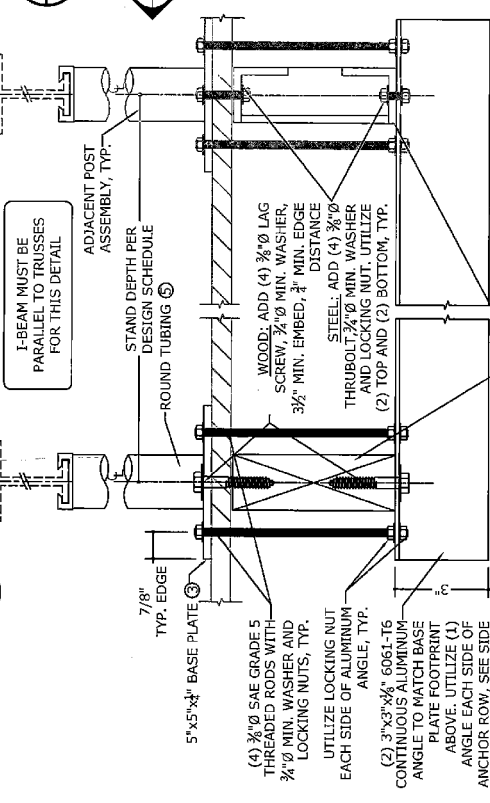
FOR USE AS AN ALTERNATE ATTACHMENT METHOD FOR ALL ANCHOR TYPES ON DESIGN SCHEDULE TABLES. SITE SPECIFIC DESIGN RECOMMENDED.



1 FRAME ASSEMBLY DETAIL



3 BASE PLATE DETAIL



6 ALTERNATE ATTACHMENT METHOD FOR ALL ANCHOR TYPES

FOR USE AS AN ALTERNATE ATTACHMENT METHOD FOR ALL ANCHOR TYPES ON DESIGN SCHEDULE TABLES. SITE SPECIFIC DESIGN RECOMMENDED.