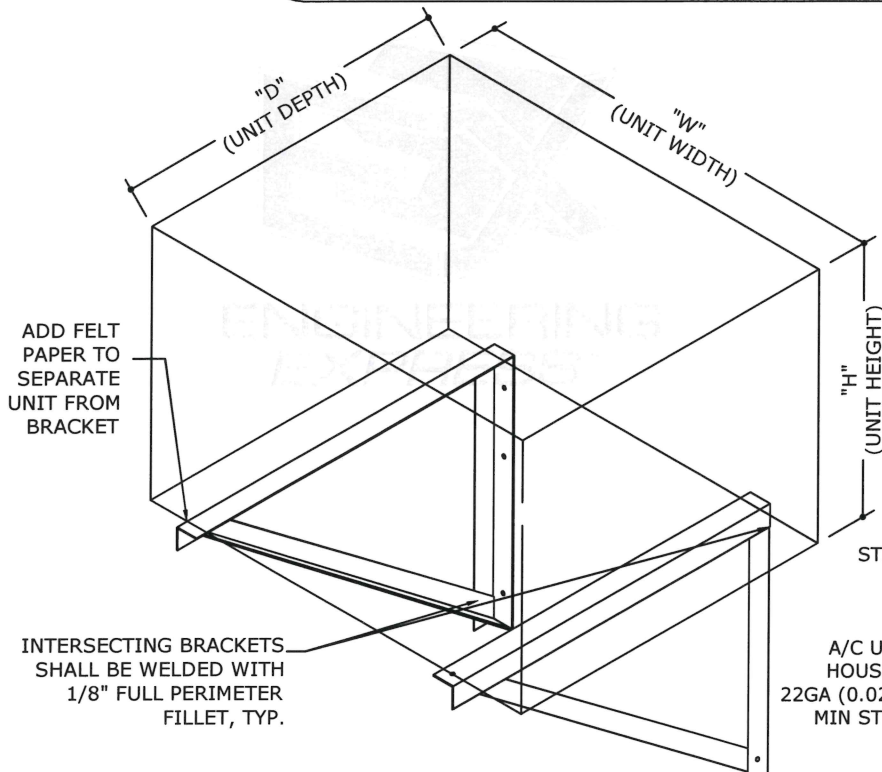
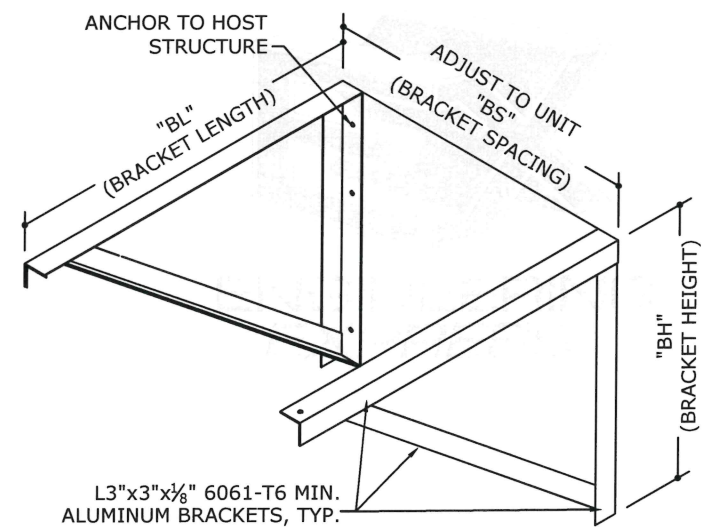


08/20/2020 - 11:26pm Tail Thierry C:\Users\Tail Thierry\Engineering\Express\Production - Documents\Projects\20-26638 - STD Duty Wall Bracket\VP\FBC 2020\20-26638a Wall Bracket AC Stand (2020 FBC).dwg

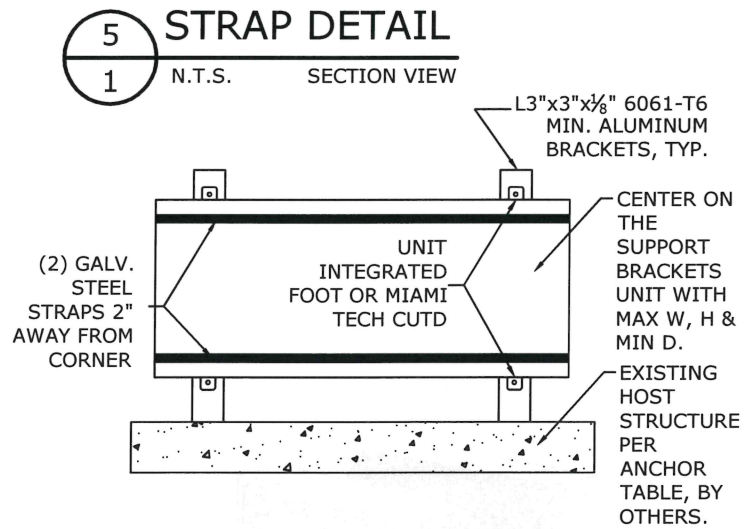
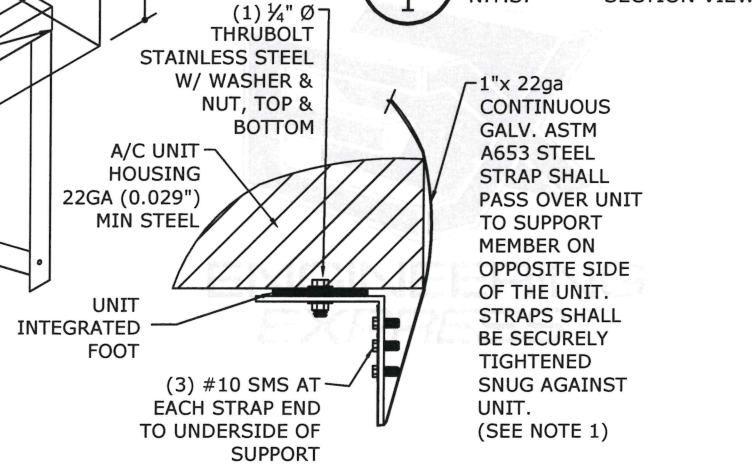
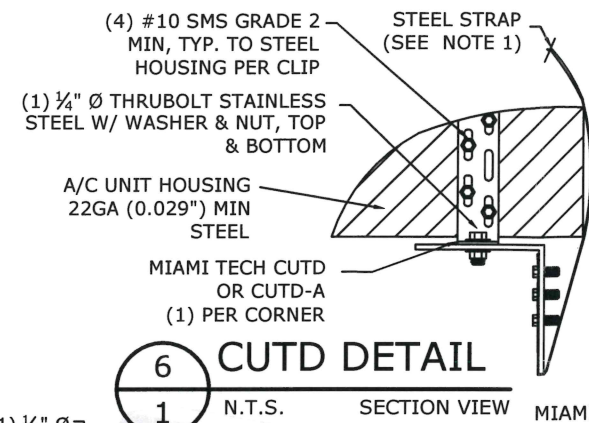
MIAMI TECH, INC. ALUMINUM WALL BRACKET SUPPORTS



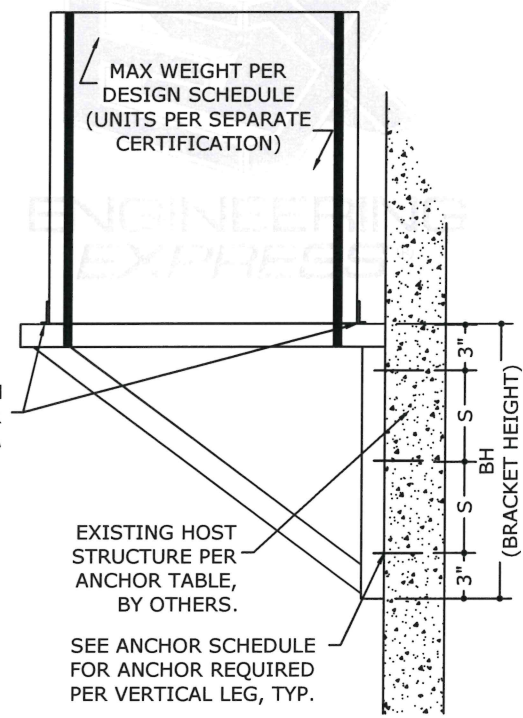
1 ALUMINUM WALL STAND
1 N.T.S. ISOMETRIC VIEW



3 ALUMINUM WALL STAND
1 N.T.S. ISOMETRIC VIEW



NOTE:
WALL BRACKET SUPPORTS AS ILLUSTRATED HEREIN ARE NOT INTENDED FOR ROOF-TOP MOUNTING CONDITIONS. THIS DESIGN SHALL NOT BE USED AT PARAPETS, ANY PART OF THE BUILDING THAT EXCEEDS THE FINISHED ROOF ELEVATION, OR ANY WALL ZONE WITHIN 10% OF THE SHORTEST BUILDING DIMENSION PER ASCE 7-16.



2 ALUMINUM WALL STAND
1 N.T.S. SECTION VIEW

ANCHOR SCHEDULE:

SUBSTRATE	ANCHOR
CONCRETE: (5" THICK MIN, 3000 PSI MIN.)	3/8" Ø CARBON STEEL POWERS WEDGE BOLTS WITH 3/8" Ø SAE WASHER, 2 1/2" FULL EMBED TO NON-CRACKED CONCRETE, 4" MIN. EDGE DISTANCE, SPACING AS ILLUSTRATED IN ELEVATION/SECTION.
GROUT FILLED CMU: (SHALL CONFORM TO ASTM C90)	3/8" Ø CARBON STEEL POWERS WEDGE BOLTS WITH 3/8" Ø SAE WASHER, 2 1/2" FULL EMBED TO GROUT FILLED BLOCK, 12" MIN. EDGE DISTANCE, SPACING AS ILLUSTRATED IN ELEVATION/SECTION.
WOOD: (G=0.55 MIN.)	1/2" Ø CARBON STEEL WOOD LAG SCREW W/ 1/2" Ø SAE WASHER, 2 3/8" MIN. THREAD PENETRATION TO WOOD HOST, 3/4" MIN. EDGE DISTANCE, SPACING AS ILLUSTRATED IN SECTION.
STEEL: (GR. 33, 3/8" THICK MIN.)	5/16" Ø STAINLESS STEEL SELF DRILLING SCREW W/ 1" Ø SELF LOCKING WASHER. 3/4" EDGE DISTANCE MIN., SPACING AS ILLUSTRATED IN SECTION.

1. EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.
3. INSTALL ALL ANCHORS PER MANUFACTURER'S SPECIFICATIONS.
4. PRE-DRILL WOOD LAGS TO AVOID SPLITTING OF WOOD MEMBERS.

**MAXIMUM ALLOWABLE
DESIGN PRESSURES:**
+/- 90 PSF

DESIGN NOTES:

DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE USING ASD METHODOLOGY. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-16 AND CHAPTER 16 OF FLORIDA BUILDING CODE SEVENTH EDITION (2020) SHALL BE LESS THAN OR EQUAL TO THE LATERAL AND UPLIFT DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

GENERAL NOTES:

1. THIS SPECIFICATION HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 6TH EDITION FLORIDA BUILDING CODE (2017) AND 7TH EDITION FLORIDA BUILDING CODE (2020) FOR USE WITHIN AND OUTSIDE THE HVHZ. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
2. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
3. MAXIMUM DIMENSIONS AND WEIGHT OF A/C UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN.
4. SEPARATE 'SITE-SPECIFIC' SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE FROM LOADS, OR MAXIMUM MEMBER SPANS CONTAINED HEREIN.
5. 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.
6. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
7. ALL STEEL MEMBERS SHALL HAVE TENSILE STRENGTH OF 90 KSI MIN.
8. ALL ALUMINUM EXTRUSIONS/ MEMBERS SHALL BE 6061-T6 OR 6005-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
9. ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH FBC SECTION 2003.8.1.4 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL, TABLE A.3.6. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003.2. MINIMUM WELD IS 3/16" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
10. CONCRETE ANCHORS NOTED HEREIN SHALL BE EMBEDDED TO UN-CRACKED CONCRETE ONLY. INSTALL ALL CONCRETE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.
11. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
12. 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.
13. ENGINEER SEAL AFFIXED HERE TO 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.
14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
15. ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

DESIGN SCHEDULE:

CONFIGURATION TYPE	BRACKET DIMENSIONS			MAX UNIT DIMENSIONS			MIN DIM D	ANCHORS		MAXIMUM TOTAL UNIT WEIGHT
	BL	BS	BH	W	D	H		QTY. PER BRACKET LEG	S	
AWB2418	24"	ADJUST TO UNIT	18"	30"	20"	30"	10"	(3)	6"	350 LB
AWB3630	36"		30"	30"	30"	35"	15"	(3)	12"	350 LB
AWB4836	48"		36"	36"	36"	40"	28"	(3)	15"	400 LB

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FRANK BENNARDO PE
PE# 0046549 CA# 9885
08/20/2020
DESIGNING ENGINEER IS THE NAME LISTED ON THE SEAL

VALID FOR 1 PERMIT ONLY U.N.O.
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WALL BRACKET AC STAND
MASTER PLAN SHEET
FLORIDA BUILDING CODE SEVENTH EDITION (2020)

REMARKS	DRWN	CHKD	DATE
REV FOR 2020 FBC	TT	FB	06/11/20

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SCALE: NTS UNLESS NOTED
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