NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION

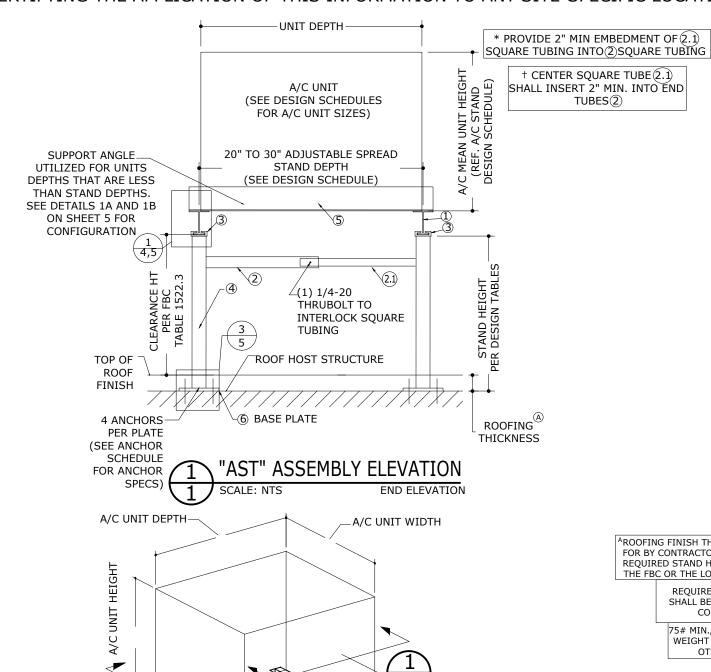
NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT, CONTACT THIS OFFICE AT ENGINEERINGEXPRESS.COM/QUOTE FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

RICHARD NEET, P.E. PF# 86488 CA# 9885

FL

APRIL 30, 2024



CONFIGURATION

**DETAILS** 

STAND WIDTH

**DETAILS** 

& LEG SPACING PER

CONFIGURATION

ROOFING FINISH THICKNESS SHALL BE ACCOUNTED FOR BY CONTRACTOR WHEN DETERMINING REQUIRED STAND HEIGHT IN ACCORDANCE WITH THE FBC OR THE LOCAL JURISDICTION

REQUIRED STAND DEPTH SHALL BE DETERMINED BY CONTRACTOR

> 75# MIN./450 # MAX UNIT WEIGHT AS VERIFIED BY OTHERS, TYP.

### VISIT ECALC.IO/61601

FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE

VISIT ENGINEERINGEXPRESS.COM/STORE FOR ADDITIONAL PLANS, REPORTS & RESOURCES



## MAXIMUM ALLOWABLE DESIGN PRESSURES:

AS NOTED IN DESIGN SCHEDULES

### **DESIGN NOTES:**

DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED SEPARATELY ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE ASCE 7-22 AND CHAPTER 16 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) USING ASD METHODOLOGY. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-22 AND CHAPTER 16 OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) 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 SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023).
- 2. MAXIMUM DIMENSIONS AND WEIGHT OF A/C UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, MINIMUM 75LB OR MAXIMUM AS LISTED
- 3. 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.
- 4. REACTION FORCES LISTED FOR USE WITH HOST STRUCTURE VERIFICATION ARE CALCULATED USING ASD METHODOLOGY. DESIGN PROFESSIONAL OF RECORD TO VERIFY APPLICABILITY AND/OR ADDITIONAL FACTORS FOR USE WITH HOST STRUCTURE VERIFICATION.
- 5. ALL FASTENERS TO BE #10 OR GREATER SAE GRADE 5, UNLESS NOTED OTHERWISE, CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH J.3.3, SPECIFICATIONS FOR ALUM. STRUCTURES -SECTION 1, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES. PROVIDE (3) PITCHES MIN PAST THREAD PLANE.
- 6. ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6 OR
- ALL 22GA DEFORMED STEEL STRAPS USED FOR UNIT TIE-DOWNS SHALL BE Fy = 36KSI MIN. STEEL. FABRICATION OF STEEL STRAPS SHALL BE BY STRAP MANUFACTURER ONLY.
- ALL EXISTING CONCRETE SUBSTRATE SHALL HAVE MINIMUM f'c COMPRESSIVE STRENGTH OF 3000 PSI AS VERIFIED BY OTHERS, U.N.O.
- ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH FBC SECTION 2003.8.1 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL, TABLE J.2.1. SUGGESTED WELD FILLER: 5356 ELECTRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003.2 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS  $\frac{1}{8}$ " THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
- 10. THE CONTRACTOR IS RESPONSIBLE TO INSULATE MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- 15. AC STANDS SHALL LABELED PER MIAMI-DADE REQUIREMENTS FOR NON-MANDATORY PRODUCT APPROVALS IN ACCORDANCE WITH THE FLORIDA

FL 21464.1

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51" STAND FOR MECHANICAL UNITS BUILDING CODE EIGHTH EDITION (2023) STATEWIDE APPROVAL (FSA FL#21464.1)

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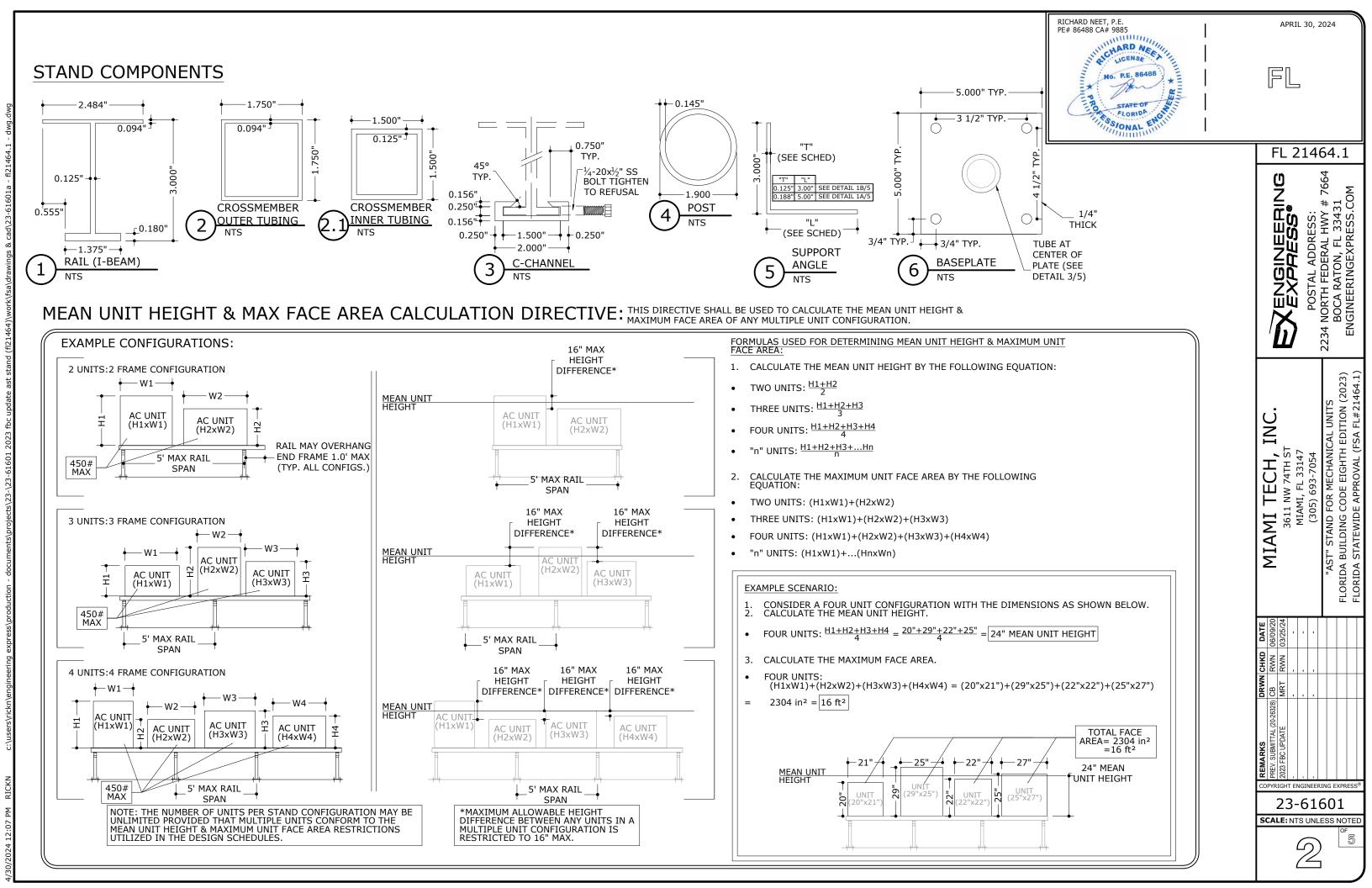
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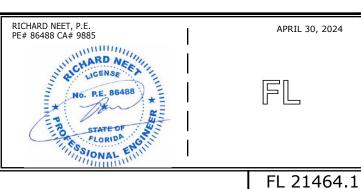
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SCALE: NTS UNLESS NOTED



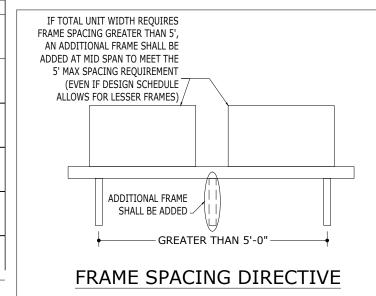


# ALUMINUM STAND DESIGN SCHEDULE



# STAND DESIGN SCHEDULE [MAXIMUM ALLOWABLE (ASD) LATERAL/UPLIFT PRESSURES]

3 STAND DESIGN SCHEDOLE [MAXIMON ALLOWADLE (ASD) LATERAL/ OF LITT TRESSURES]																					
MAX UNIT	MAX UNIT MAX FACE AREA		MAX POST	2 FRA	RAMES 3 I		MES	4 FRAMES		5 FRAMES		6 FRAMES		7 FRAMES		8 FRAMES		9 FRAMES		10 FRAMES	
HEIGHT	IVIAA FA	ACE AREA	HEIGHT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT
			18 in	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
24.0 in	576.0 in <sup>2</sup>	(= 4.0 sqft)	24 in	194 psf	153 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
			30 in	160 psf	126 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
			18 in	161 psf	127 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
30.0 in	900.0 in <sup>2</sup>	(= 6.3 sqft)	24 in	124 psf	98 psf	187 psf	147 psf	200 psf	158 psf	200 psf	158 psf										
			30 in	102 psf	81 psf	153 psf	121 psf	200 psf	158 psf	200 psf	158 psf										
			18 in	144 psf	114 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
36.0 in	1008.0 in <sup>2</sup>	(= 7.0 sqft)	24 in	111 psf	88 psf	167 psf	132 psf	200 psf	158 psf	200 psf	158 psf										
			30 in	91 psf	72 psf	137 psf	108 psf	183 psf	144 psf	200 psf	158 psf	200 psf	158 psf								
			18 in	126 psf	100 psf	189 psf	149 psf	200 psf	158 psf	200 psf	158 psf										
36.0 in	1152.0 in <sup>2</sup>	(= 8.0 sqft)	24 in	97 psf	77 psf	146 psf	115 psf	194 psf	153 psf	200 psf	158 psf	200 psf	158 psf								
			30 in	80 psf	63 psf	120 psf	95 psf	160 psf	126 psf	200 psf	158 psf	200 psf	158 psf								
			18 in	101 psf	80 psf	151 psf	119 psf	200 psf	158 psf	200 psf	158 psf										
36.0 in	1440.0 in <sup>2</sup>	(= 10.0 sqft)	24 in	78 psf	61 psf	117 psf	92 psf	156 psf	123 psf	194 psf	153 psf	200 psf	158 psf	200 psf	158 psf						
			30 in	64 psf	50 psf	96 psf	76 psf	128 psf	101 psf	160 psf	126 psf	192 psf	151 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
			18 in	84 psf	66 psf	126 psf	100 psf	168 psf	133 psf	200 psf	158 psf	200 psf	158 psf								
36.0 in	1728.0 in <sup>2</sup>	(= 12.0 sqft)	24 in	65 psf	51 psf	97 psf	77 psf	130 psf	102 psf	162 psf	128 psf	194 psf	153 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
			30 in	53 psf	42 psf	80 psf	63 psf	107 psf	84 psf	133 psf	105 psf	160 psf	126 psf	186 psf	147 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
			18 in	67 psf	53 psf	101 psf	80 psf	134 psf	106 psf	168 psf	133 psf	200 psf	158 psf	200 psf	158 psf						
36.0 in	2160.0 in <sup>2</sup>	(= 15.0 sqft)	24 in	52 psf	41 psf	78 psf	61 psf	104 psf	82 psf	130 psf	102 psf	156 psf	123 psf	181 psf	143 psf	200 psf	158 psf	200 psf	158 psf	200 psf	158 psf
			30 in	43 psf	34 psf	64 psf	50 psf	85 psf	67 psf	107 psf	84 psf	128 psf	101 psf	149 psf	118 psf	170 psf	135 psf	192 psf	151 psf	200 psf	158 psf
			18 in	45 psf	36 psf	68 psf	54 psf	91 psf	72 psf	113 psf	90 psf	136 psf	108 psf	159 psf	125 psf	182 psf	143 psf	200 psf	158 psf	200 psf	158 psf
40.0 in	3200.0 in <sup>2</sup>	(= 22.2 sqft)	24 in	35 psf	28 psf	52 psf	41 psf	70 psf	55 psf	87 psf	69 psf	105 psf	83 psf	122 psf	97 psf	140 psf	111 psf	157 psf	124 psf	175 psf	138 psf
			30 in	29 psf	23 psf	43 psf	34 psf	58 psf	45 psf	72 psf	57 psf	86 psf	68 psf	101 psf	79 psf	115 psf	91 psf	129 psf	102 psf	144 psf	114 psf
			18 in	38 psf	30 psf	57 psf	45 psf	76 psf	60 psf	95 psf	75 psf	113 psf	90 psf	132 psf	105 psf	151 psf	119 psf	170 psf	134 psf	189 psf	149 psf
48.0 in	3840.0 in <sup>2</sup>	(= 26.7 sqft)	24 in	29 psf	23 psf	44 psf	35 psf	58 psf	46 psf	73 psf	58 psf	87 psf	69 psf	102 psf	81 psf	117 psf	92 psf	131 psf	104 psf	146 psf	115 psf
			30 in	24 psf	19 psf	36 psf	28 psf	48 psf	38 psf	60 psf	47 psf	72 psf	57 psf	84 psf	66 psf	96 psf	76 psf	108 psf	85 psf	120 psf	95 psf
			18 in	30 psf	24 psf	45 psf	36 psf	61 psf	48 psf	76 psf	60 psf	91 psf	72 psf	106 psf	84 psf	121 psf	96 psf	136 psf	108 psf	151 psf	119 psf
48.0 in	4800.0 in <sup>2</sup>	(= 33.3 sqft)	24 in	23 psf	18 psf	35 psf	28 psf	47 psf	37 psf	58 psf	46 psf	70 psf	55 psf	82 psf	64 psf	93 psf	74 psf	105 psf	83 psf	117 psf	92 psf
			30 in	19 psf	15 psf	29 psf	23 psf	38 psf	30 psf	48 psf	38 psf	58 psf	45 psf	67 psf	53 psf	77 psf	61 psf	86 psf	68 psf	96 psf	76 psf



"AST" STAND FOR MECHANICAL UNITS FLORIDA BUILDING CODE EIGHTH EDITION (2023) FLORIDA STATEWIDE APPROVAL (FSA FL#21464.1)

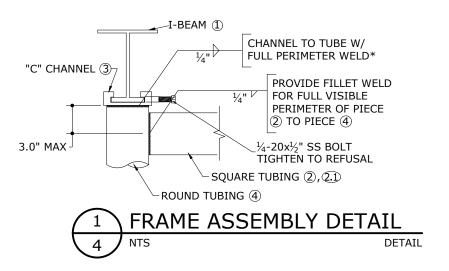
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ENGINEER OF RECORD TO VERIFY THAT THE HOST STRUCTURE CAN SUPPORT THE SERVICE LOAD REACTIONS LISTED BELOW M = 2.1 KIP-INV = 0.3 KIPST = C = 0.7 KIPSBASE PLATE REACTIONS

- MAXIMUM FRAME-TO-FRAME SPACING SHALL NOT EXCEED 5'-0" O.C. (SEE FRAME SPACING DIRECTIVE)
  ALLOWABLE STAND DEPTH SHALL BE 20" MINIMUM UP TO 30" MAXIMUM.
- A "FRAME" CONSISTS OF (2) POSTS CONNECTED WITH (1) CROSS MEMBER. FOR EXAMPLE, A "2 FRAME" STAND WILL HAVE 4 POSTS TOTAL.
- REFERENCE STAND DETAILS HEREIN FOR STAND COMPONENTS AND INSTALLATION OPTIONS.
- SEE TIEDOWN DIRECTIVE FOR UNIT TIEDOWN REQUIREMENTS AND LIMITATIONS.
- UNIT OR STAND DIMENSIONS OUTSIDE THE PARAMETERS LISTED IN THIS SCHEDULE WILL REQUIRE SEPARATE SITE SPECIFIC ENGINEERING.
- REQUIRED DESIGN PRESSURES FOR INSTALLATION SHALL BE CALCULATED ON A SITE SPECIFIC BASIS AND BE LESS THAN OR EQUAL TO THE MAX ALLOWABLE PRESSURES LISTED IN THIS DRAWING.
- INTERPOLATION BETWEEN UNIT HEIGHTS, FACE AREA OR POST HEIGHT IS NOT PERMITTED.
- THE UNIT DEPTH SHALL NOT EXCEED THE MAX UNIT HEIGHT LISTED. SEE THE TIEDOWN STRAP SCHEDULE FOR MINIMUM ALLOWABLE UNIT

# FRAME ASSEMBLY & UNIT TIE-DOWN DETAILS:

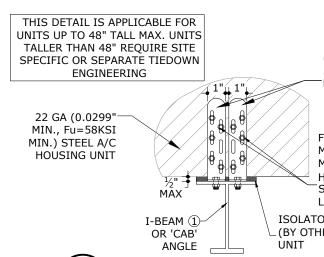


# TIEDOWN STRAP SCHEDULE

MAX UNIT HEIGHT (in)	MIN UNIT DEPTH (in)	MAX LATERAL PRESSURE (psf)	NO. OF STRAPS REQUIRED (PER UNIT)			
		UPTO 80	0			
	12-19	UP TO 120	0			
UP TO 24		UP TO 200	2			
UP 10 24		UPTO 80	0			
	20	UP TO 120	0			
		UP TO 200	0			
		UPTO 80	0			
	12-19	UP TO 120	2			
UP TO 30		UP TO 200	2			
UP 10 30		UPTO 80	0			
	20	UP TO 120	0			
		UP TO 200	0			
		UPTO 80	0			
	12-19	UP TO 120	2			
UP TO 36		UP TO 200	3			
UP 10 36		UPTO 80	0			
	20	UP TO 120	0			
		UP TO 200	2			
		UPTO 80	0			
	14-23	UP TO 120	2			
UP TO 40		UP TO 200	3			
UP 10 40		UPTO 80	0			
	24	UP TO 120	2			
		UP TO 200	3			
		UPTO 80	3			
	16-23	UP TO 120	4			
UP TO 48		UP TO 200	5			
UP 10 46		UPTO 80	0			
	24	UP TO 120	2			
		UP TO 200	4			
		UPTO 80	4			
	16-23	UP TO 120	5			
UP TO 54		UP TO 200	6			
UP 1U 54		UPTO 80	2			
	24	UP TO 120	3			
		UP TO 200	5			

### TIEDOWN SCHEDULE NOTES:

- THE TIEDOWN CLIP AND STRAP REQUIREMENTS ON THIS SHEET DO NOT ACCOUNT FOR INTEGRATED FEET OR RAILS ON THE MECHANICAL UNITS. IF INTEGRATED TIEDOWN FEET OR RAILS EXIST ON THE UNIT, SEPARATE ENGINEERING IS REQUIRED.
- THE TIEDOWN REQUIREMENTS ON THIS SHEET ACCOUNT FOR RECTANGULAR SHAPED UNITS ONLY. CIRCULAR OR OTHER SHAPED MECHANICAL EQUIPMENT (FANS, DUCTWORK, PIPES, ETC.) SHALL BE CERTIFIED



(2) 1" WIDE x 14GA (0.070") OR x 12GA (0.105") ASTM A-653 GRADE 33 GALV STEEL ANGLE (CUTD-1 BY MIAMI TECH). UTILIZE (2) MIN. PER CORNER.

FASTEN CLIP VERTICAL LEG TO 22 GA (0.0299" MIN.) STEEL HOUSING WITH (5) #10 SAE GRADE 2 MIN. SHEET METAL SCREWS PER CLIP. FASTEN CLIP HORIZONTAL LEG TO I-BEAM RAIL WITH (1) 1/4 "Ø SAE GRADE 2 MIN. THRU BOLT CENTERED ÁBOUT

**ISOLATOR PADS BEYOND** (BY OTHERS). MIN. 4 PER

'C UNIT TIE-DOWN DETAIL

(SEE TIEDOWN STRAP SCHED. FOR STRAP REQUIREMENTS)

\*C-CHANNEL TO POST WELD NOTE: IN AREAS WHERE 1/4" WELD DIAMETER CANNOT BE ACHIEVED, CONTINUE WELD AROUND FULL PERIMETER OF POST TO PREVENT WATER INFILTRATION. WELD DIAMETER WILL DECREASE TO 0.05" ALONG C-CHANNEL EDGE. SEE DETAIL BELOW. UNDERSIDE OF C-CHANNEL 0.05 **POST** ·1/4" FILLET WELD

22 GA (0.0299" MIN., Fu=58KSI MIN.) STEEL A/C HOUSING UNIT ISOLATOR PADS BEYOND. MIN. 4 PER UNIT I-BEAM ① OR 'CAB' **ANGLE** 

(2) #14 SAE GR 2 MIN. SMS WITH WASHERS AT EACH STRAP END TO UNDERSIDE OF I-BEAM OR SIDE OF 'CAB' ANGLE

SEE TIEDOWN STRAP SCHEDULE FOR

REQUIRED NUMBER OF STRAPS PER UNIT

RICHARD NEET, P.E. PE# 86488 CA# 9885

NOTE: UNIT TIEDOWN DETAILS MAY ALSO

BE USED TO ANCHOR THE UNIT TO THE

SUPPORT ANGLE SHOWN ON NEXT SHEET. (I.E. I-BEAM CAN BE SUBSTITUTED WITH

ANGLE SUPPORT AS BASE MATERIAL)

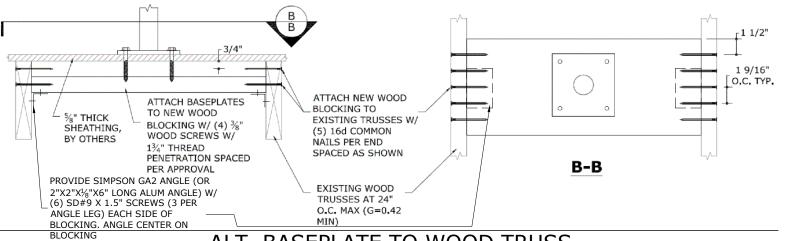
1"x 22ga CONTINUOUS GALV. STEEL STRAP (Fy = 36 KSI MIN.) SHALL PASS OVER UNIT TO I-BEAM ON OPPOSITE SIDE

TIGHTENED SNUG AGAINST UNIT. STRAPS SHALL BE SPACED SYMMETRICALLY OVER UNITS NO CLOSER THAN 2" FROM UNIT

TIE-DOWN STRAP DETAIL\*\*

\*SHALL BE USED IN COMBINATION WITH ANY A/C UNIT TIE-DOWN DETAIL ON THIS SHEET

EDGES, TYP.



ALT. BASEPLATE TO WOOD TRUSS ATTACHMENT (2X10 WOOD BLOCKING) SCALE: NTS

WOOD (G=0.55 MIN.)

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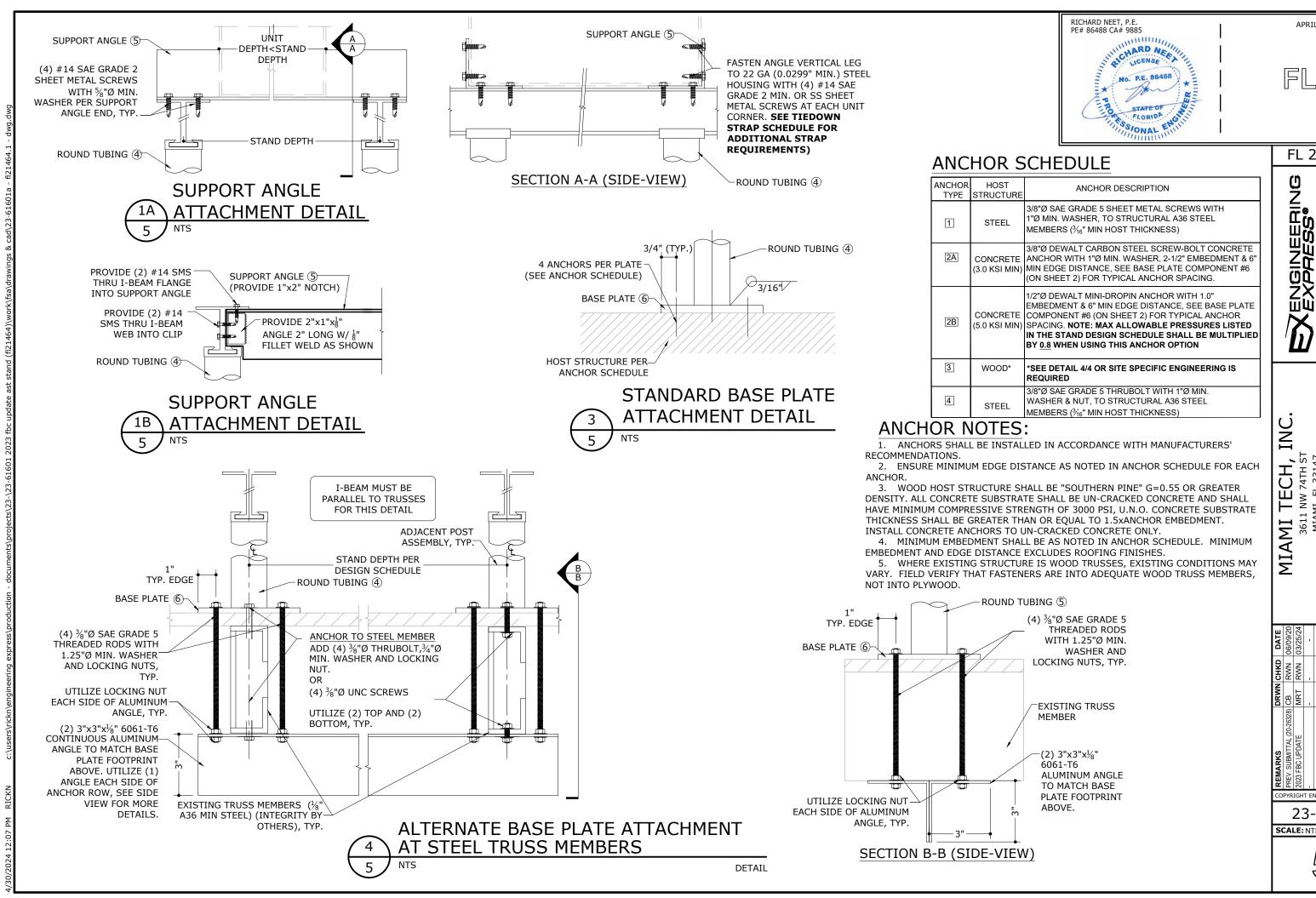
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