

DIVERSITECH CORP.  
ALUMINUM STANDS FOR MECHANICAL UNITS  
VALID FOR USE INSIDE AND OUTSIDE THE HVHZ

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

DESIGN CRITERIA:  
FLORIDA BUILDING CODE NINTH EDITION (2026)  
ASCE 7 LOAD COMBINATIONS

1. DEAD LOADING  
1.1. (SEE MECHANICAL UNIT WEIGHTS IN DESIGN SCHEDULES)
2. WIND LOADING INPUTS  
2.1. (SEE DESIGN SCHEDULES FOR MAXIMUM ALLOWABLE LATERAL AND UPLIFT PRESSURES)

DESIGN, CODES. AND CALCULATIONS  
DESIGN NOTES

1. ALLOWABLE DESIGN PRESSURES UTILIZED IN THIS DOCUMENT HAVE BEEN CALCULATED PER THE REQUIREMENTS OF THE CODES AND STANDARDS STATED HEREIN USING ASCE 7 ALLOWABLE STRESS DESIGN METHODOLOGY WITH THE CRITERIA AS OUTLINED HEREIN. THE CONTRACTOR SHALL CONTACT THE AUTHORITY HAVING JURISDICTION TO ENSURE APPROPRIATE CRITERIA TO BE USED BEFORE CONSTRUCTION BEGINS.
2. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. IN SOME CASES, DETAILS MAY BE INTENTIONALLY ALTERED FOR PRESENTATION PURPOSES. DO NOT SCALE DIMENSIONS ELECTRONICALLY OR OTHERWISE. FIELD INSTALLATION MAY VARY SLIGHTLY BUT MUST REMAIN WITHIN 5% OF THE INTENDED DESIGN. CONTRACTOR IS TO VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION.
3. THIS DRAWING SET IS PREPARED AS A GENERIC DESIGN 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.
4. THE INTEGRITY OF ANY EXISTING STRUCTURE HAS NOT BEEN VERIFIED BY THIS ENGINEER. THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL A DESIGN PROFESSIONAL APPROVES THE HOST STRUCTURE AS BEING ABLE TO ACCOMMODATE THE NEW DESIGN.
5. THIS DOCUMENT IS INTENDED TO CERTIFY THE FOLLOWING TO RESIST WIND AND DEAD LOADS ONLY:
- 5.1. THE STRUCTURAL INTEGRITY THE MECHANICAL UNIT STANDS AS NOTED.
- 5.2. THE STRUCTURAL INTEGRITY OF THE CONNECTION OF THE MECHANICAL UNIT STANDS TO THE HOST STRUCTURE AS NOTED.
- 5.3. THE STRUCTURAL INTEGRITY OF THE ATTACHMENT OF THE MECHANICAL UNITS TO THE STANDS AS NOTED.
6. THE STRUCTURAL INTEGRITY OF THE MECHANICAL UNITS DESCRIBED HEREIN IS NOT INCLUDED IN THE CERTIFICATION. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE MECHANICAL UNIT INTEGRITY TO RESIST WIND, IMPACT OR ANY OTHER LOADS SHALL BE CERTIFIED BY OTHERS.
7. FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.

TERMINOLOGY  
SEE TERMINOLOGY SECTION ON THE FOLLOWING PAGE.

CODES & STANDARDS

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF BUILDING CODES LISTED IN THE DESIGN CRITERIA. DESIGN CRITERIA OR SPANS BEYOND STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.

2. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.

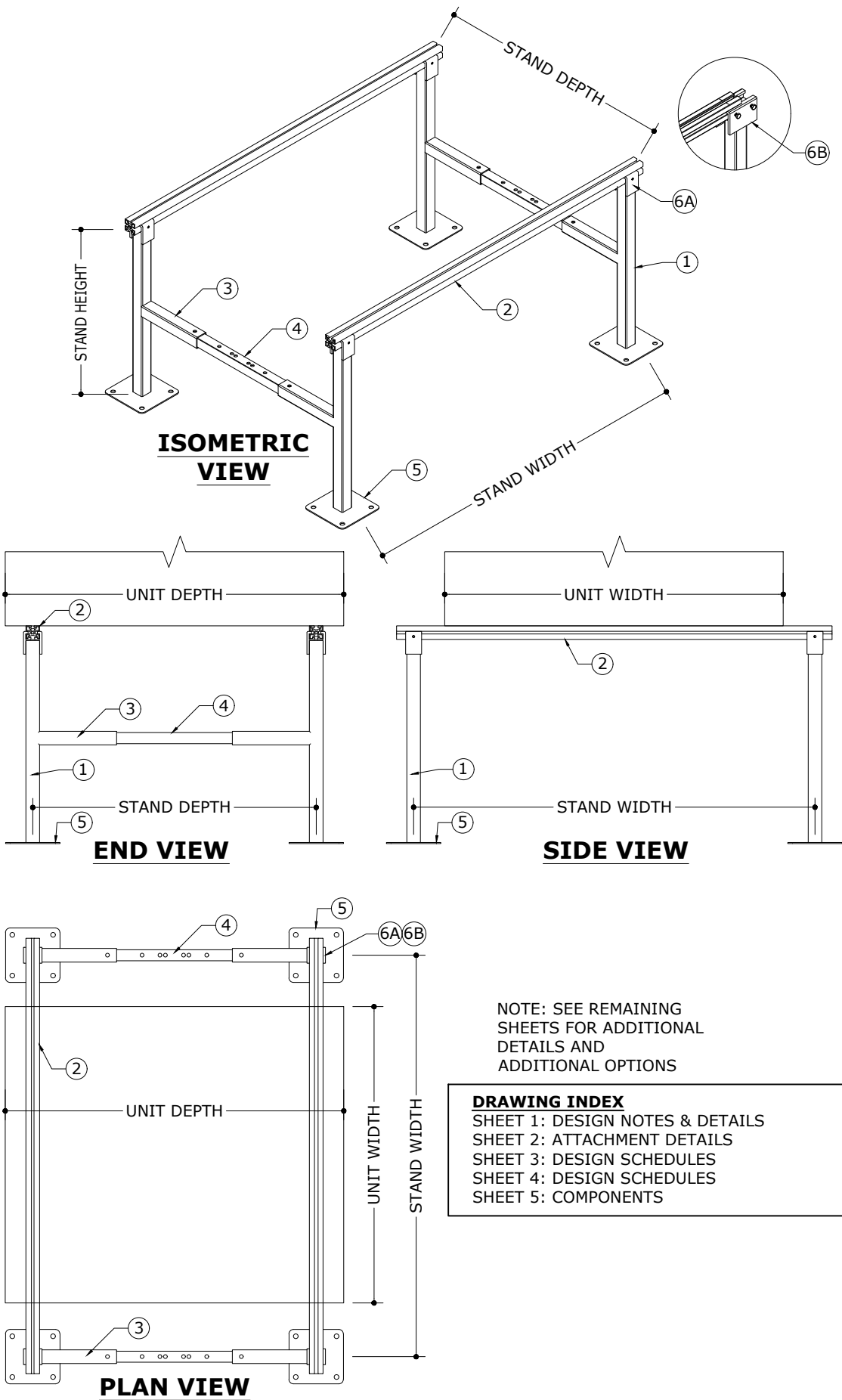
CALCULATIONS

1. ANY EXISTING HOST STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED SYSTEM AS VERIFIED BY THE ENGINEER & OR ARCHITECT OF RECORD, et.al. THE HOST STRUCTURE WHICH IS DESIGNED, CERTIFIED, AND INSPECTED BY OTHERS MUST PROVIDE SUFFICIENT CAPACITY FOR THE SYSTEM & REACTIONS DETAILED HEREIN. NO WARRANTY OR GUARANTEE TO THESE CONDITIONS, EITHER EXPRESSED OR IMPLIED, IS OFFERED WITH THIS CERTIFICATION.

STRUCTURAL MATERIALS & CONNECTIONS

STRUCTURAL ALUMINUM & ALUMINUM WELDING:

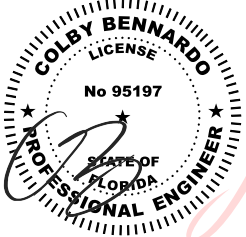
1. ALL COMPONENTS SHALL BE STRUCTURAL ALUMINUM (U.N.O.) AND SHALL BE FABRICATED AND ERECTED ACCORDING TO THE GOVERNING BUILDING CODE AND MATERIAL STANDARDS REFERENCED ON THIS SHEET.
2. ALL STRUCTURAL ALUMINUM SHALL BE MIN 1/8" THICK U.N.O. AND BE OF THE FOLLOWING ALLOY AND TEMPER:
- ALL STAND COMPONENTS ..... 6061-T6 OR 6005-T5 (UNLESS NOTED OTHERWISE)
  - FASTENERS ..... SS 316 MINIMUM (UNLESS NOTED OTHERWISE)
3. WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS STEEL, ZINC OR CADMIUM AND THE FAYING SURFACES ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM.
4. UNCOATED ALUMINUM SHALL NOT BE EXPOSED TO MOISTURE OR RUNOFF THAT HAS COME IN CONTACT WITH OTHER UNCOATED METALS EXCEPT 300 SERIES STAINLESS STEEL, ZINC, OR CADMIUM. ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH MASONRY, CONCRETE, WOOD, FIBERBOARD, OR OTHER POROUS MATERIAL THAT ABSORBS WATER SHALL BE PAINTED.
5. FOR ALUMINUM IN CONTACT WITH CONCRETE: ACCEPTABLE PAINTS: PRIMING PAINT (ONE COAT), SUCH AS ZINC MOLYBDATE PRIMER IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-P-645B ("GOOD QUALITY", NO LEAD CONTENT). ALT: HEAVY COATING OF ALKALI RESISTANT BITUMINOUS PAINT. ALT: WRAP ALUMINUM WITH A SUITABLE PLASTIC TAPE APPLIED IN SUCH A MANNER AS TO PROVIDE ADEQUATE PROTECTION AT THE OVERLAPS.
6. BOLT HOLES SHALL BE DRILLED THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
7. ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS (5356 FILER MIN.) TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A, TABLE 7.3.1. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY, AND METHODS OF CONSTRUCTION AS SET FORTH IN THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
8. STAINLESS STEEL FASTENERS SHALL BE 316 SERIES SS COLD WORKED CONDITION. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR ALL SCREW CONNECTIONS. ALL FASTENER CONNECTIONS TO METAL SHALL PROVIDE 2xDIAMETER EDGE DISTANCE AND 3xDIAMETER SPACING.
9. SELF-DRILLING SCREWS SHALL BE TEK BRAND / ALL POINTS FASTENERS OR EQUIVALENT OF SIZE #12 MINIMUM UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
11. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
12. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE AS NOTED HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE ARE DEPTHS INTO SOLID SUBSTRATE AND DO NOT INCLUDE THICKNESS OF ANY HOST SUBSTRATE FINISHES. ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE UNLESS NOTED OTHERWISE.
13. ANCHOR QUANTITIES INDICATED IN DETAILS ARE FOR GRAPHICAL PURPOSES ONLY. DO NOT SCALE DIAMETER, LENGTH, OR PENETRATION(S). HEAD STYLE(S) ARE FREELY INTERCHANGEABLE.



NOTE: SEE REMAINING SHEETS FOR ADDITIONAL DETAILS AND ADDITIONAL OPTIONS

DRAWING INDEX  
SHEET 1: DESIGN NOTES & DETAILS  
SHEET 2: ATTACHMENT DETAILS  
SHEET 3: DESIGN SCHEDULES  
SHEET 4: DESIGN SCHEDULES  
SHEET 5: COMPONENTS

COLBY BENNARDO, PE  
PE# 95197 CA# 9885



Digitally signed by  
Colby Bennardo  
Date: 2026.08.18  
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& MORE INFORMATION ABOUT THIS DOCUMENT  
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1. THE INSTALLATION OF ANY ACCESSORIES THAT DO NOT AFFECT THE STRUCTURAL INTEGRITY OF THE STRUCTURE ARE OUTSIDE THE SCOPE OF THIS CERTIFICATION AND NOT REQUIRED TO BE CERTIFIED UNDER THIS STRUCTURAL DRAWING. THEY MAY BE INSTALLED WITHIN LIMITATIONS STATED HEREIN AND AS DESIRED PER MFR. SPECIFICATIONS. DETAILS PROVIDED HEREIN ARE FOR REFERENCE ONLY

GENERAL NOTES & DISCLAIMERS

1. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT SHALL REMAIN IN CONFORMANCE WITH THE LIMITATIONS OF THIS PLAN. THE CONTRACTOR IS TO VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION, AND VERIFY THAT PROPOSED DIMENSIONS AND FIELD CONDITIONS AGREE WITH THIS PROPOSED PLAN.
2. USE OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THE PROPOSED SYSTEM LAYOUT, COMPONENTS SELECTED, AND INSTALLATION. THESE DRAWINGS ARE NOT INTENDED TO BE USED AS FABRICATION OR SHOP DRAWINGS.
3. 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.
4. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE ONLY PERMITTED TO SHOW SITE-SPECIFIC CONDITIONS, HOWEVER ANY CHANGES, ALTERATIONS OR ADDITIONS MADE TO THE CONTENT OF THIS DOCUMENT WILL INVALIDATE THIS CERTIFICATION.
5. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED

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DIVERSITECH ALUMINUM STAND

FLORIDA BUILDING CODE NINTH EDITION (2026)

FLORIDA STATEWIDE APPROVAL (FSA FL#40968.1)

| REMARKS               | DATE     | DRWN  | CHKD |
|-----------------------|----------|-------|------|
| INIT ISSUE (21-48243) | 1/10/22  | RWN   | MLD  |
| FBC 2023 (23-61191)   | 8/17/23  | MLD   | CCB  |
| 2026 FBC UPDATE       | 08/17/26 | NDIER | EPR  |
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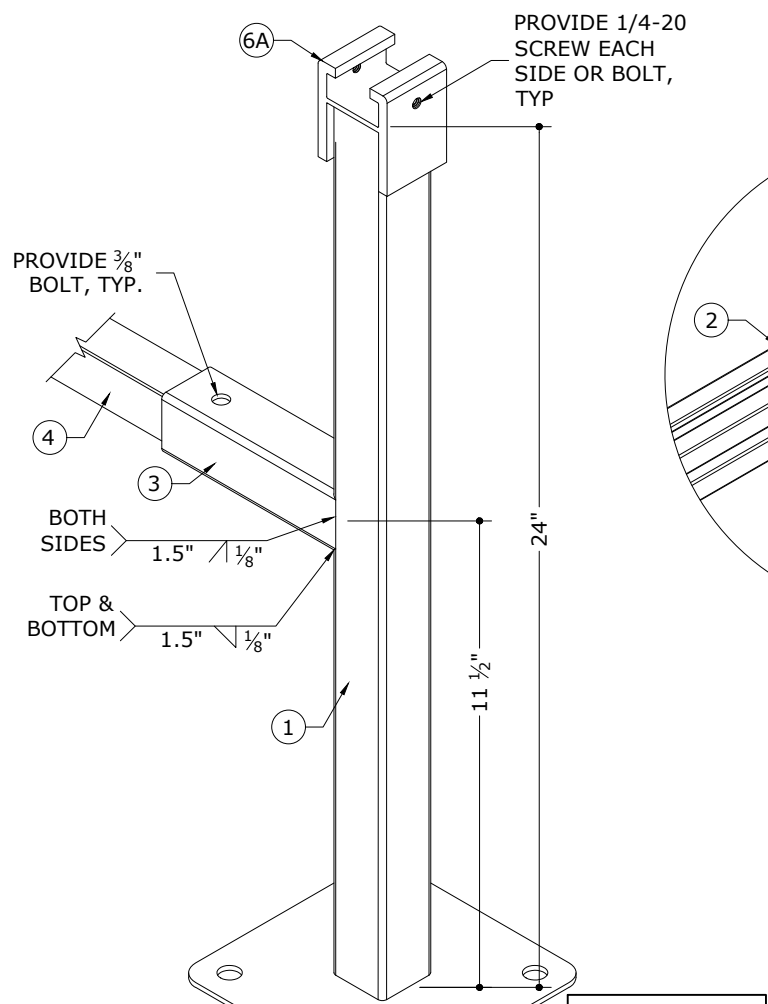
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| REMARKS                | DRWN  | CHKD | DATE     |
|------------------------|-------|------|----------|
| (INIT ISSUE (21-48243) | RWN   | MLD  | 1/10/22  |
| FBC 2023 (23-61191)    | MILD  | CCB  | 8/17/23  |
| 2028 FBC UPDATE        | ND/ER | EPR  | 08/17/26 |
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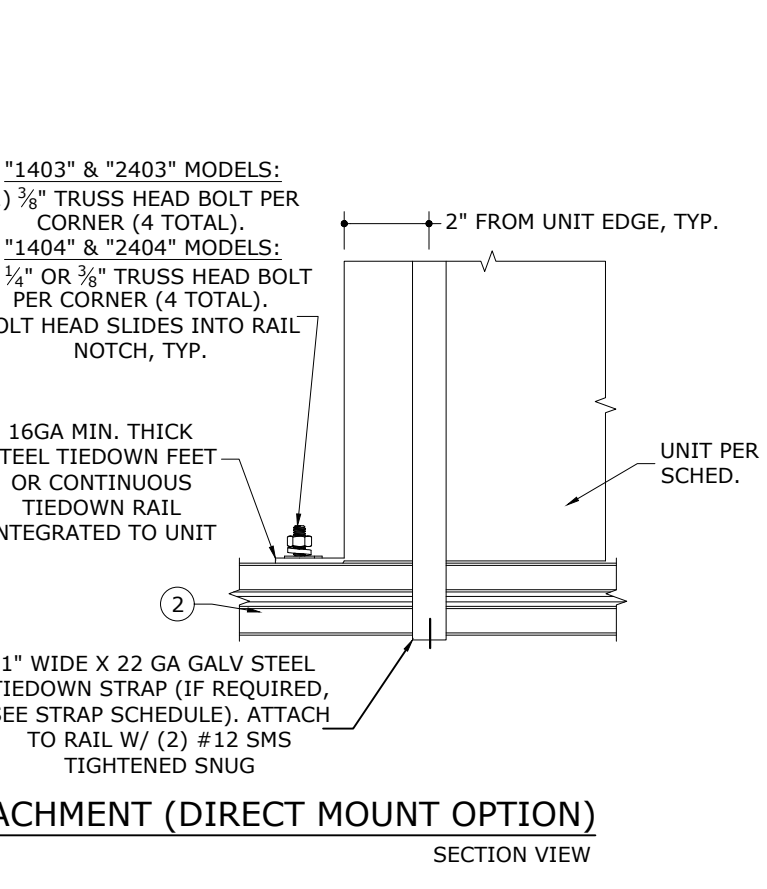
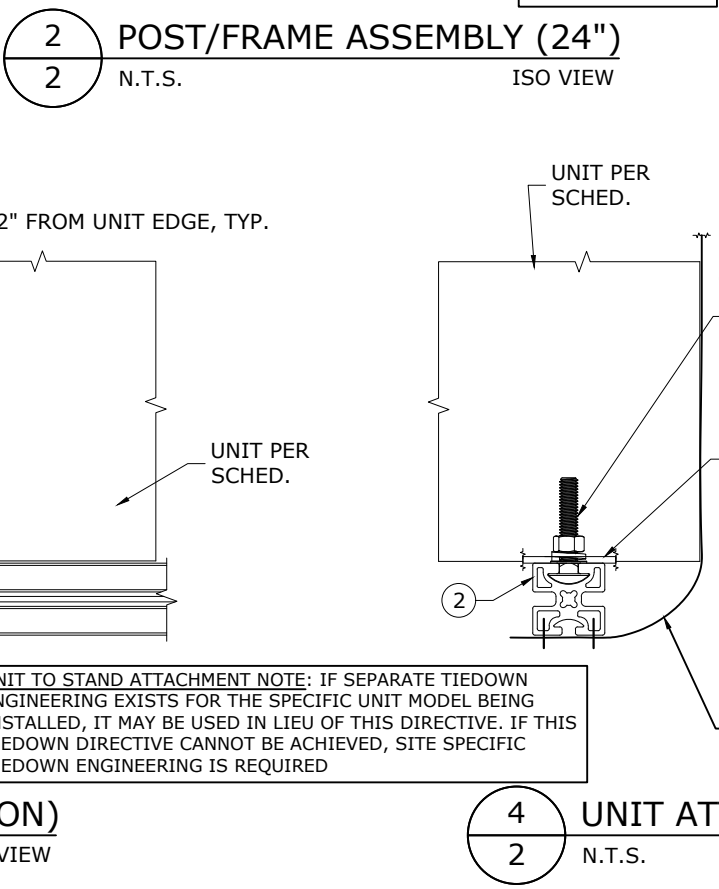
NOTES:

1. NOTE: PRESSURES LISTED ARE ALLOWABLE (ASD) PRESSURES.
2. STRAPS SHALL BE TIGHTENED SNUG AROUND ENTIRE UNIT ATTACH TO RAILS ON EACH SIDE.
3. ALTERNATE TIEDOWN METHODS MAY BE USED IN LIEU OF THE DIRECTIVE HEREIN IF APPROVED BY A LICENSED ENGINEER

**TERMINOLOGY:**  
THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

"ADDTL" FOR "ADDITIONAL", "AHJ" FOR "AUTHORITY HAVING JURISDICTION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "EA." FOR "EACH", "E.D."/"/EDGE"/"EDGE DIST." FOR "EDGE DISTANCE", "ELEV" FOR "ELEVATION", "EMBED" FOR "EMBEDMENT", "EQ"/"/EQUIV." FOR "EQUIVALENT", "FBC" FOR "FLORIDA BUILDING CODE", "G" FOR "SPECIFIC GRAVITY", "GA" FOR "GAUGE", "GALV" FOR "GALVANIZED", "GR" FOR "GRADE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "L" FOR "LENGTH", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "MIN" FOR "MINIMUM", "N.T.S." FOR "NOT TO SCALE", "O.C." FOR "ON-CENTER", "P.E." FOR "PROFESSIONAL ENGINEER", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft<sup>2</sup>)", "QTY" FOR "QUANTITY", "REF." FOR "REFERENCE", "SCHED." FOR "SCHEDULE", "SDS" FOR "SELF-DRILLING SCREWS", "SMS" FOR "SHEET METAL SCREWS", "SPECS" FOR "SPECIFICATIONS", "SS" FOR "STAINLESS STEEL", "TYP." FOR "TYPICAL", "U.N.O." FOR "UNLESS NOTED OTHERWISE", "UTS" OR "Fu" FOR "ULTIMATE TENSILE STRENGTH/STRESS", "W"/" FOR "WITH", "W/O" FOR "WITHOUT", "YS" FOR "YIELD STRENGTH", "#" FOR "NUMBER", "&" FOR "AND", AND "Ø" FOR "DIAMETER".

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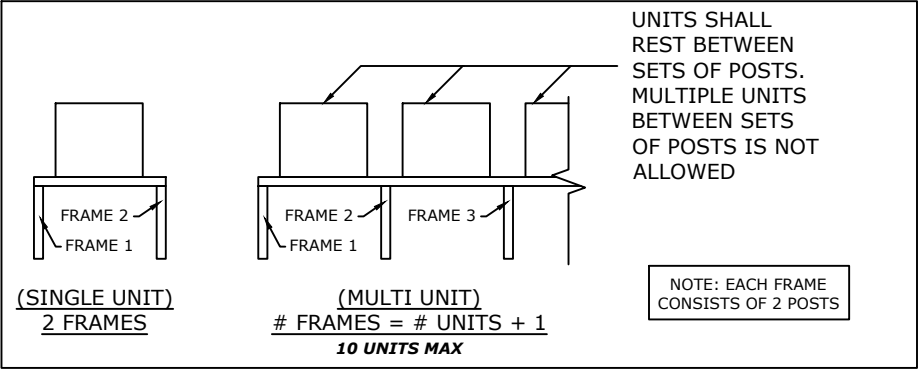


## STAND MODELS

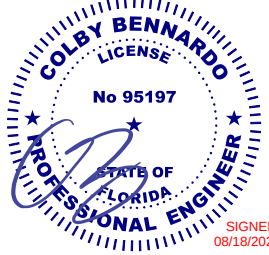
| STAND MODEL  | STAND HEIGHT (in) | STAND WIDTH (in) | MIN. STAND DEPTH (in) |
|--------------|-------------------|------------------|-----------------------|
| QSTD1403-AL  | 14                | 48 MAX           | 11.5                  |
| QSTD1403-ALX |                   |                  |                       |
| QSTD1404-AL  |                   |                  | 18.5                  |
| QSTD1404-ALX |                   |                  |                       |
| QSTD2403-AL  | 24                |                  | 11.5                  |
| QSTD2403-ALX |                   |                  |                       |
| QSTD2404-AL  |                   |                  | 18.5                  |
| QSTD2404-ALX |                   |                  |                       |

**STAND MODEL NOTES:**

1. THE STAND DEPTH MAY BE ADJUSTED AS NEEDED BASED ON THE UNIT SIZE/SHAPE BUT SHALL NOT BE LESS THAN THE MINIMUM STAND DEPTH LISTED AND SHALL NOT EXCEED 2X THE MIN. DEPTH LISTED.
2. EACH MODEL IS APPROVED FOR SINGLE AND MULTI UNIT CONFIGURATIONS IN ACCORDANCE WITH THE DIRECTIVE ON THIS SHEET.
3. FOR MULTI UNIT CONFIGURATIONS WITH DIFFERENT SIZE UNITS, ASSUME ALL UNITS TO BE THE SIZE OF THE TALLEST UNIT WHEN USING THE DESIGN SCHEDULES.



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PE# 95197 CA# 9885



FL 40968.1

DESIGN SCHEDULE 1: MODELS QSTD1403-AL & QSTD1403-ALX NOTE: PRESSURES AND REACTIONS LISTED ARE ALLOWABLE (ASD) PRESSURES AND REACTIONS.

| MAX UNIT HEIGHT (in) | UNIT WIDTH (in) | UNIT DEPTH (in) | MAX LATERAL PRESSURE (psf) | MAX UPLIFT PRESSURE (psf) | BASE MOMENT (PER POST) (lb-in) | BASE SHEAR (PER POST) (lb) | BASE GRAVITY (PER POST) (lb) | ALLOWABLE UNIT WEIGHT RANGE (lb) |
|----------------------|-----------------|-----------------|----------------------------|---------------------------|--------------------------------|----------------------------|------------------------------|----------------------------------|
| 24                   | 24              | 24              | 134                        | 106                       | 1005                           | 134                        | 299                          | 75 - 150                         |
|                      | 30              | 30              | 134                        | 106                       | 1256                           | 168                        | 358                          | 100 - 175                        |
|                      | 36              | 36              | 134                        | 106                       | 1508                           | 201                        | 431                          | 150 - 250                        |
| 30                   | 24              | 24              | 99                         | 78                        | 928                            | 124                        | 285                          | 100 - 200                        |
|                      | 30              | 30              | 101                        | 80                        | 1184                           | 158                        | 336                          | 125 - 225                        |
|                      | 36              | 36              | 120                        | 95                        | 1688                           | 225                        | 469                          | 150 - 250                        |
| 36                   | 24              | 24              | 76                         | 60                        | 855                            | 114                        | 277                          | 125 - 225                        |
|                      | 30              | 30              | 78                         | 62                        | 1097                           | 146                        | 320                          | 150 - 250                        |
|                      | 36              | 36              | 93                         | 73                        | 1569                           | 209                        | 437                          | 200 - 300                        |
|                      | 48              | 48              | 60                         | 47                        | 1350                           | 180                        | 356                          | 200 - 350                        |
| 42                   | 24              | 24              | 59                         | 47                        | 774                            | 103                        | 267                          | 150 - 300                        |
|                      | 30              | 30              | 61                         | 48                        | 1001                           | 133                        | 304                          | 175 - 350                        |
|                      | 36              | 36              | 63                         | 50                        | 1240                           | 165                        | 349                          | 200 - 350                        |
|                      | 48              | 48              | 60                         | 47                        | 1575                           | 210                        | 414                          | 200 - 350                        |
| 48                   | 24              | 24              | 48                         | 38                        | 720                            | 96                         | 265                          | 150 - 250                        |
|                      | 30              | 30              | 50                         | 39                        | 938                            | 125                        | 299                          | 175 - 275                        |
|                      | 36              | 36              | 60                         | 47                        | 1350                           | 180                        | 397                          | 175 - 300                        |
|                      | 48              | 48              | 60                         | 47                        | 1800                           | 240                        | 479                          | 200 - 400                        |

DESIGN SCHEDULE 2: MODELS QSTD1404-AL & QSTD1404-ALX      NOTE: PRESSURES AND REACTIONS LISTED ARE ALLOWABLE (ASD) PRESSURES AND REACTIONS.

| MAX UNIT HEIGHT (in) | UNIT WIDTH (in) | UNIT DEPTH (in) | MAX LATERAL PRESSURE (psf) | MAX UPLIFT PRESSURE (psf) | BASE MOMENT (PER POST) (lb-in) | BASE SHEAR (PER POST) (lb) | BASE GRAVITY (PER POST) (lb) | ALLOWABLE UNIT WEIGHT RANGE (lb) |
|----------------------|-----------------|-----------------|----------------------------|---------------------------|--------------------------------|----------------------------|------------------------------|----------------------------------|
| 24                   | 24              | 24              | 150                        | 118                       | 1125                           | 150                        | 337                          | 75 - 150                         |
|                      | 30              | 30              | 150                        | 118                       | 1406                           | 188                        | 404                          | 100 - 175                        |
|                      | 36              | 36              | 150                        | 118                       | 1688                           | 225                        | 485                          | 150 - 250                        |
| 30                   | 24              | 24              | 125                        | 99                        | 1172                           | 156                        | 367                          | 100 - 200                        |
|                      | 30              | 30              | 125                        | 99                        | 1465                           | 195                        | 422                          | 125 - 225                        |
|                      | 36              | 36              | 125                        | 99                        | 1758                           | 234                        | 490                          | 150 - 250                        |
| 36                   | 24              | 24              | 99                         | 78                        | 1114                           | 149                        | 369                          | 125 - 225                        |
|                      | 30              | 30              | 99                         | 78                        | 1392                           | 186                        | 413                          | 150 - 250                        |
|                      | 36              | 36              | 99                         | 78                        | 1671                           | 223                        | 466                          | 200 - 300                        |
|                      | 48              | 48              | 60                         | 47                        | 1350                           | 180                        | 356                          | 200 - 350                        |
| 42                   | 24              | 24              | 80                         | 63                        | 1050                           | 140                        | 371                          | 150 - 300                        |
|                      | 30              | 30              | 80                         | 63                        | 1313                           | 175                        | 406                          | 175 - 350                        |
|                      | 36              | 36              | 80                         | 63                        | 1575                           | 210                        | 450                          | 200 - 350                        |
|                      | 48              | 48              | 60                         | 47                        | 1575                           | 210                        | 414                          | 200 - 350                        |
| 48                   | 24              | 24              | 66                         | 52                        | 990                            | 132                        | 374                          | 150 - 250                        |
|                      | 30              | 30              | 66                         | 52                        | 1238                           | 165                        | 403                          | 175 - 275                        |
|                      | 36              | 36              | 65                         | 51                        | 1463                           | 195                        | 432                          | 175 - 300                        |
|                      | 48              | 48              | 60                         | 47                        | 1800                           | 240                        | 479                          | 200 - 400                        |
| 54                   | 30              | 30              | 57                         | 45                        | 1202                           | 160                        | 414                          | 175 - 275                        |
|                      | 36              | 36              | 55                         | 43                        | 1392                           | 186                        | 428                          | 175 - 300                        |
|                      | 48              | 48              | 53                         | 42                        | 1789                           | 239                        | 485                          | 200 - 400                        |

DESIGN SCHEDULE NOTES:

1. CHOOSE UNIT SIZE TIER BASED ON ACTUAL UNIT SIZE. IF UNIT WIDTH, DEPTH OR HEIGHT IS IN BETWEEN SIZE TIERS, USE HIGHER TIER. INTERPOLATION NOT PERMITTED. IF ANY UNIT DIMENSION IS BEYOND LISTED VALUE(S), SITE SPECIFIC CERTIFICATION IS REQUIRED.
2. ENGINEER OF RECORD OF HOST STRUCTURE SHALL UTILIZE THE SERVICE LOADS LISTED ABOVE (IF REQUIRED). "GRAVITY" LOAD SHALL BE CONSIDERED IN BOTH POSITIVE (+) AND NEGATIVE (-) DIRECTION (WHICHEVER PRODUCES WORST CASE HOST REACTION).

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DIVERSITECH ALUMINUM STAND  
FLORIDA BUILDING CODE NINTH EDITION (2

| REMARKS               | DRWN  | CHKD | DATE     |
|-----------------------|-------|------|----------|
| INIT ISSUE (21-48243) | RWVN  | MILD | 1/10/22  |
| FBC 2023 (23-61191)   | MILD  | CCB  | 8/17/23  |
| 2026 FBC UPDATE       | ND/ER | EPR  | 08/17/26 |
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# 26-102691

**SCALE:** NTS UNLESS NOTED

NOTE: PRESSURES AND REACTIONS LISTED ARE ALLOWABLE (ASD) PRESSURES AND REACTIONS.

| MAX UNIT HEIGHT (in) | UNIT WIDTH (In) | UNIT DEPTH (In) | MAX LATERAL PRESSURE (psf) | MAX UPLIFT PRESSURE (psf) | BASE MOMENT (PER POST) (lb-in) | BASE SHEAR (PER POST) (lb) | BASE GRAVITY (PER POST) (lb) | ALLOWABLE UNIT WEIGHT RANGE (lb) |
|----------------------|-----------------|-----------------|----------------------------|---------------------------|--------------------------------|----------------------------|------------------------------|----------------------------------|
| 24                   | 24              | 24              | 134                        | 106                       | 1541                           | 134                        | 343                          | 75 - 150                         |
|                      | 30              | 30              | 125                        | 99                        | 1797                           | 156                        | 374                          | 100 - 175                        |
|                      | 36              | 36              | 104                        | 82                        | 1794                           | 156                        | 363                          | 150 - 250                        |
| 30                   | 24              | 24              | 99                         | 78                        | 1423                           | 124                        | 326                          | 100 - 200                        |
|                      | 30              | 30              | 99                         | 78                        | 1779                           | 155                        | 370                          | 125 - 225                        |
|                      | 36              | 36              | 83                         | 66                        | 1790                           | 156                        | 352                          | 150 - 250                        |
| 36                   | 24              | 24              | 76                         | 60                        | 1311                           | 114                        | 315                          | 125 - 225                        |
|                      | 30              | 30              | 78                         | 62                        | 1682                           | 146                        | 359                          | 150 - 250                        |
|                      | 36              | 36              | 69                         | 54                        | 1785                           | 155                        | 352                          | 200 - 300                        |
|                      | 48              | 48              | 52                         | 41                        | 1794                           | 156                        | 331                          | 200 - 350                        |
| 42                   | 24              | 24              | 59                         | 47                        | 1187                           | 103                        | 301                          | 150 - 300                        |
|                      | 30              | 30              | 62                         | 49                        | 1560                           | 136                        | 345                          | 175 - 350                        |
|                      | 36              | 36              | 59                         | 47                        | 1781                           | 155                        | 359                          | 200 - 350                        |
|                      | 48              | 48              | 44                         | 35                        | 1771                           | 154                        | 322                          | 200 - 350                        |
| 48                   | 24              | 24              | 48                         | 38                        | 1104                           | 96                         | 297                          | 150 - 250                        |
|                      | 30              | 30              | 50                         | 39                        | 1438                           | 125                        | 333                          | 175 - 275                        |
|                      | 36              | 36              | 52                         | 41                        | 1794                           | 156                        | 375                          | 175 - 300                        |
|                      | 48              | 48              | 39                         | 31                        | 1794                           | 156                        | 329                          | 200 - 400                        |

NOTE: PRESSURES AND REACTIONS LISTED ARE ALLOWABLE (ASD) PRESSURES AND REACTIONS.

| MAX UNIT HEIGHT (in) | UNIT WIDTH (in) | UNIT DEPTH (in) | MAX LATERAL PRESSURE (psf) | MAX UPLIFT PRESSURE (psf) | BASE MOMENT (PER POST) (lb-in) | BASE SHEAR (PER POST) (lb) | BASE GRAVITY (PER POST) (lb) | ALLOWABLE UNIT WEIGHT RANGE (lb) |
|----------------------|-----------------|-----------------|----------------------------|---------------------------|--------------------------------|----------------------------|------------------------------|----------------------------------|
| 24                   | 24              | 24              | 150                        | 118                       | 1725                           | 150                        | 387                          | 75 - 150                         |
|                      | 30              | 30              | 124                        | 98                        | 1783                           | 155                        | 371                          | 100 - 175                        |
|                      | 36              | 36              | 104                        | 82                        | 1794                           | 156                        | 363                          | 150 - 250                        |
| 30                   | 24              | 24              | 125                        | 99                        | 1797                           | 156                        | 419                          | 100 - 200                        |
|                      | 30              | 30              | 100                        | 79                        | 1797                           | 156                        | 374                          | 125 - 225                        |
|                      | 36              | 36              | 83                         | 66                        | 1790                           | 156                        | 352                          | 150 - 250                        |
| 36                   | 24              | 24              | 99                         | 78                        | 1708                           | 149                        | 418                          | 125 - 225                        |
|                      | 30              | 30              | 83                         | 66                        | 1790                           | 156                        | 383                          | 150 - 250                        |
|                      | 36              | 36              | 69                         | 54                        | 1785                           | 155                        | 352                          | 200 - 300                        |
|                      | 48              | 48              | 52                         | 41                        | 1794                           | 156                        | 331                          | 200 - 350                        |
| 42                   | 24              | 24              | 80                         | 63                        | 1610                           | 140                        | 417                          | 150 - 300                        |
|                      | 30              | 30              | 71                         | 56                        | 1786                           | 155                        | 399                          | 175 - 350                        |
|                      | 36              | 36              | 59                         | 47                        | 1781                           | 155                        | 359                          | 200 - 350                        |
|                      | 48              | 48              | 44                         | 35                        | 1771                           | 154                        | 322                          | 200 - 350                        |
| 48                   | 24              | 24              | 66                         | 52                        | 1518                           | 132                        | 418                          | 150 - 250                        |
|                      | 30              | 30              | 62                         | 49                        | 1783                           | 155                        | 418                          | 175 - 275                        |
|                      | 36              | 36              | 52                         | 41                        | 1794                           | 156                        | 375                          | 175 - 300                        |
|                      | 48              | 48              | 39                         | 31                        | 1794                           | 156                        | 329                          | 200 - 400                        |
| 54                   | 30              | 30              | 55                         | 43                        | 1779                           | 155                        | 440                          | 175 - 275                        |
|                      | 36              | 36              | 46                         | 36                        | 1785                           | 155                        | 389                          | 175 - 300                        |
|                      | 48              | 48              | 34                         | 27                        | 1760                           | 153                        | 328                          | 200 - 400                        |

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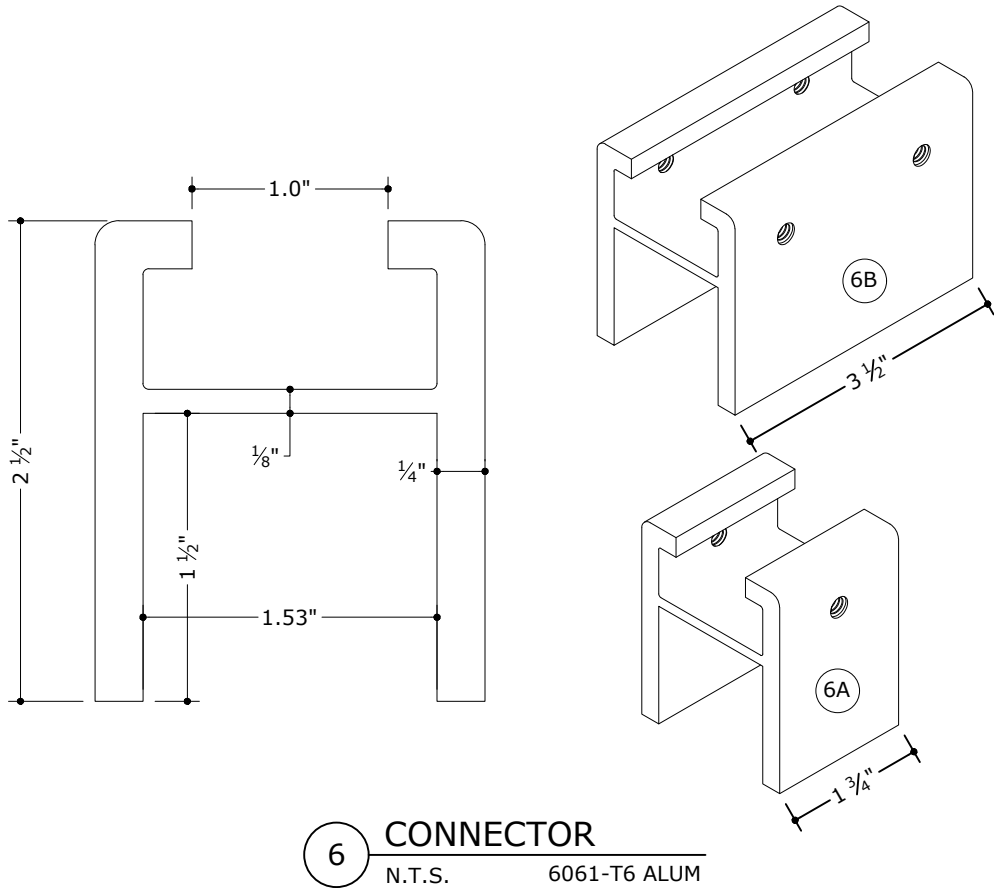
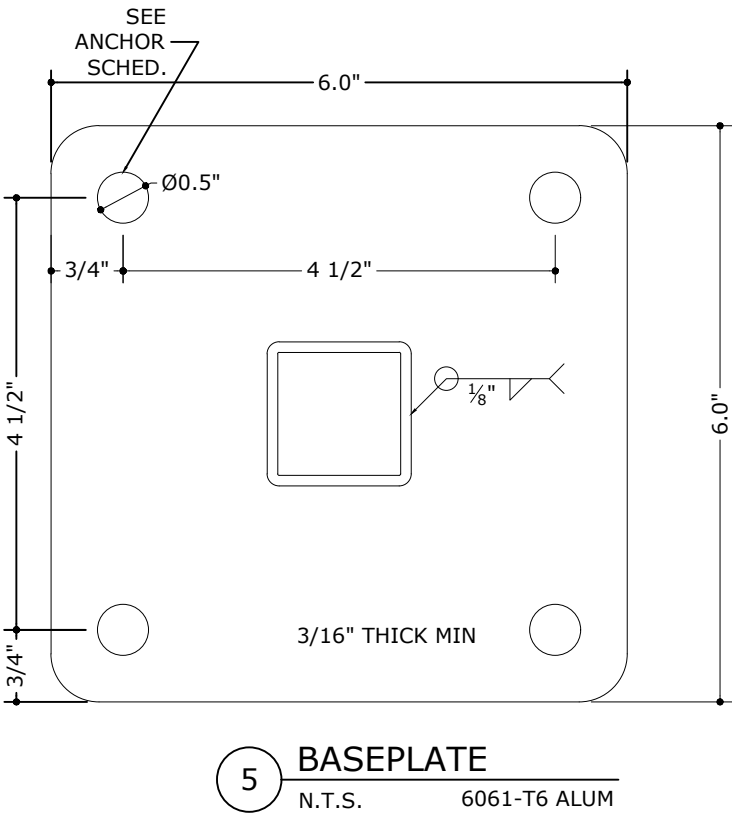
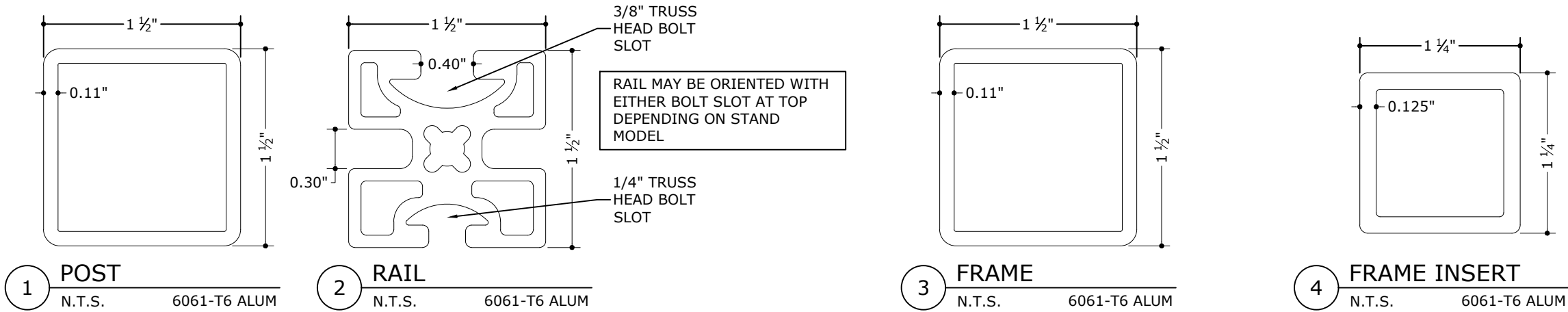
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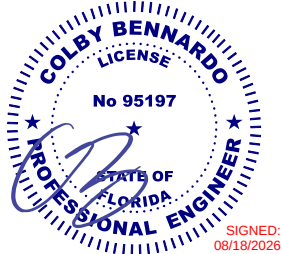


ANCHOR SCHEDULE

| ANCHOR TYPE | SUBSTRATE                         | DESCRIPTION                                                            |
|-------------|-----------------------------------|------------------------------------------------------------------------|
| A           | 3.0 KSI CONCRETE                  | 3/8" DEWALT SCREW BOLT W/ 2.5" EMBED., 4" MIN. EDGE DIST.              |
| B           | 3.0 KSI CONCRETE                  | 3/8" HILTI KWIK-BOLT W/ 2.5" EMBED., 4" MIN. EDGE DIST.                |
| C           | MIN. 3/16" THICK STEEL (A36 MIN.) | 3/8" SAE GR 5 OR 316 SS UNC SCREW, 1.25" MIN. EDGE DIST.               |
| D           | MIN. 3/16" THICK STEEL (A36 MIN.) | 3/8" SAE GR 5 OR 316 SS BOLT W/ STD SAE WASHERS, 1.25" MIN. EDGE DIST. |

- ANCHOR SCHEDULE NOTES:
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. PROVIDE SAE GR MIN WASHERS, TYP.
  - FOR ANCHOR TYPE A: SCREW BOLT ANCHOR SHALL BE MECHANICALLY GALVANIZED (MG) VERSION, TYP.
  - FOR ANCHOR TYPE B: KWIK-BOLT ANCHOR SHALL BE KWIK-BOLT T22 SS304 OR 316, TYP.
  - ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE FOR EACH ANCHOR.
  - ATTACHMENT TO WOOD HOST ROOF MEMBERS SHALL BE CERTIFIED ON A SITE SPECIFIC BASIS.
  - MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES ROOFING FINISHES.

COLBY BENNARDO, PE  
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| REMARKS               | DRWN  | CHKD | DATE     |
|-----------------------|-------|------|----------|
| INIT ISSUE (21-48243) | RWN   | MLD  | 1/10/22  |
| FBC 2023 (23-61191)   | MLD   | CCB  | 8/17/23  |
| 2026 FBC UPDATE       | ND/ER | EPR  | 08/17/26 |
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