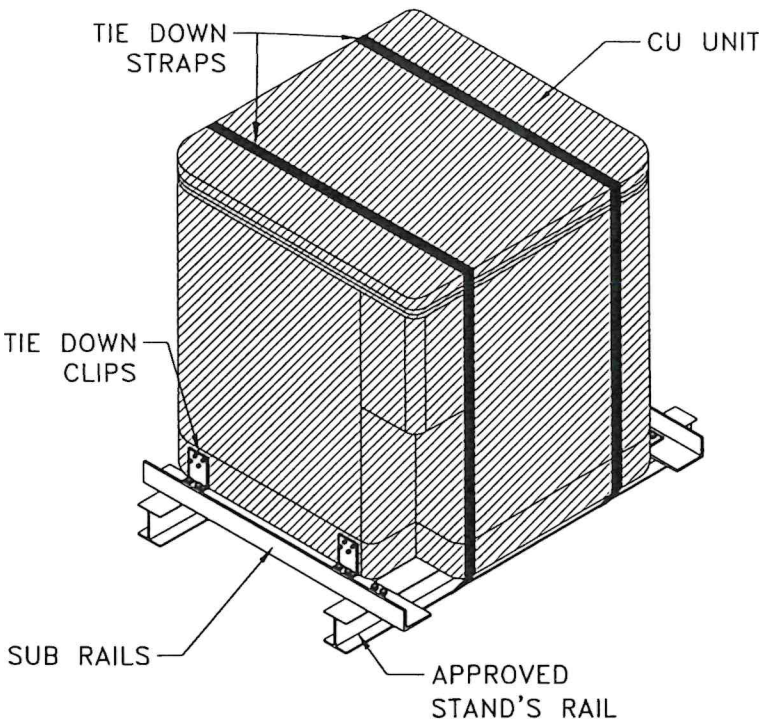


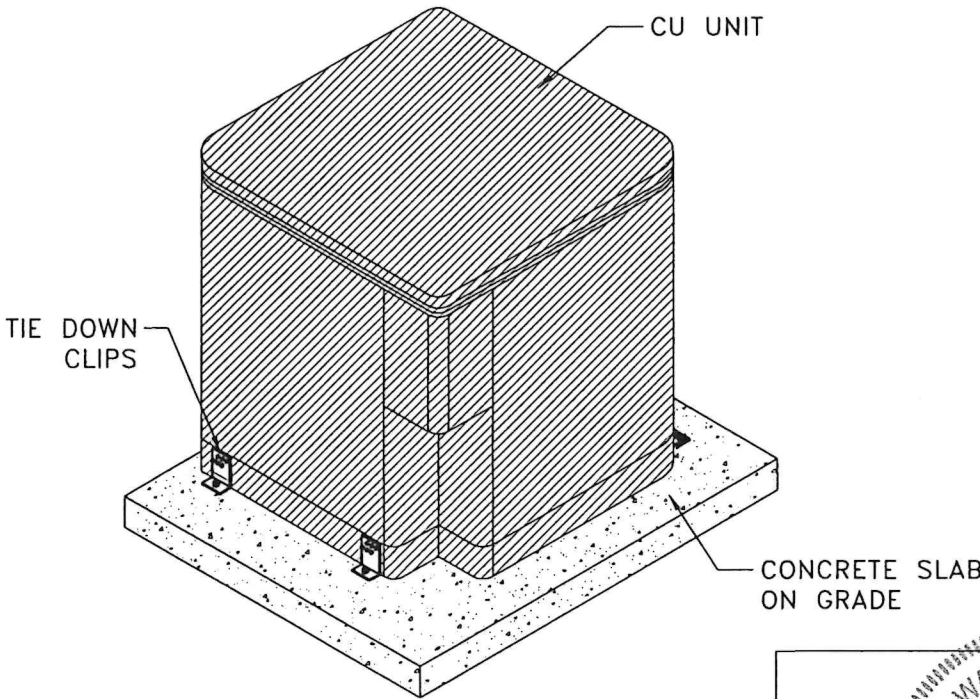
**TIE DOWN INSTALLATION OF MECHANICAL CU UNITS INTO APPROVED STANDS OR INTO CONCRETE SLAB ON GRADE.**

**GENERAL NOTES:**

- 1- INSTALLATION OF CU UNITS INTO APPROVED STANDS OR INTO CONCRETE SLAB ON GRADE HAVE BEEN VERIFIED IN ACCORDANCE WITH THE 2026 (9th EDITION) OF THE FLORIDA BUILDING CODE. DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM HAVE BEEN DETERMINED IN ACCORDANCE WITH ASCE 7-22 AND SECTIONS 1620.6 & 1616, 1604 OF THE 2026 (9th EDITION) OF THE FLORIDA BUILDING CODE. DESIGN BASED ON EQUIPMENT INFORMATION PROVIDED BY THE CONTRACTOR TO THIS OFFICE.
- MAXIMUM ASD DESIGN WIND LOADS ALLOWED FOR THIS TIE DOWN INSTALLATION OF CU UNITS SHALL BE AS PER SHEET 9.
- 2-STAND SHALL BE INSTALLED AS PER APPROVAL DRAWINGS. (MIAMI DADE COUNTY NOA OR FLORIDA APPROVAL). STAND DESIGN NOT INCLUDED ON THIS APPROVAL.
- 3- VIBRATION ISOLATOR PADS IF APPLICABLE, PER UNIT MANUFACTURER SPECS SHALL BE PROVIDED BY OTHERS BETWEEN UNITS & STAND.
- 4- 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.
- 5- MAXIMUM DIMENSIONS AND WEIGHT OF MECHANICAL UNITS SHALL CONFORM TO SPECIFICATIONS STATED HEREIN. MINIMUM CU WEIGHT SHALL BE 100lbs STRUCTURAL ADEQUACY OF EQUIPMENT FOR WIND RESISTANCE IS NOT INCLUDED ON THIS CERTIFICATION.
- 6- ALL BOLTS, SCREWS AND ANCHORS SHALL BE AS SPECIFIED ON THIS DRAWING, AND SHALL COMPLY WITH SECTIONS 2411.3.3.4 & 1711 OF THE FLORIDA BUILDING CODE.
- 7- ALL ALUMINUM EXTRUSIONS SHALL BE MADE OF ALLOYS & TEMPER AS INDICATED ON THIS DRAWING.
- 8- ALL CONCRETE TO BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-19. 4"THK CONCRETE SLAB ON GRADE IS BY OTHERS. MINIMUM  $f'_c=3Ksi$  IS REQUIRED.
- 9- TIE DOWN SPECIFIED HEREIN IS FOR AN INDIVIDUAL CU UNIT, REPEAT AS NEEDED FOR MULTIPLE UNITS.
- 10- ENGINEER SEAL AFFIXED HERETO VALIDATE 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. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED ON THIS DOCUMENT.
- 11- THIS ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY AT SITE WHICH IS THE CONTRACTOR'S RESPONSIBILITY.



**CASE I: MECHANICAL UNIT CU TIE DOWN TO APPROVED STAND**



**CASE II: MECHANICAL UNIT CU TIE DOWN TO CONCRETE SLAB ON GRADE**

FLORIDA BUILDING CODE (High and Non High Velocity Hurricane Zone)

DRAWN BY: W.H

06/26/2026

DATE

26-083

DRAWING No

SHEET 1 OF 9

TIE DOWN INSTALLATION OF MECHANICAL CU UNITS INTO APPROVED STANDS

F&L ALUMINUM PARTS, INC.

2087 N. POWERLINE RD. SUITE #1

POMPANO BEACH, FL. 33069

REV. No

DESCRIPTION

DATE

REV. No

DESCRIPTION

DATE

1

OLD 25-0-5

8/21/26

3

2

-

-

-

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY

6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL. 33166

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CA-0006719

WALTER A. TILLIT Jr. P.E.

FLORIDA Lic. # 44167

WALTER A. TILLIT JR.

LICENSE

No. 44167

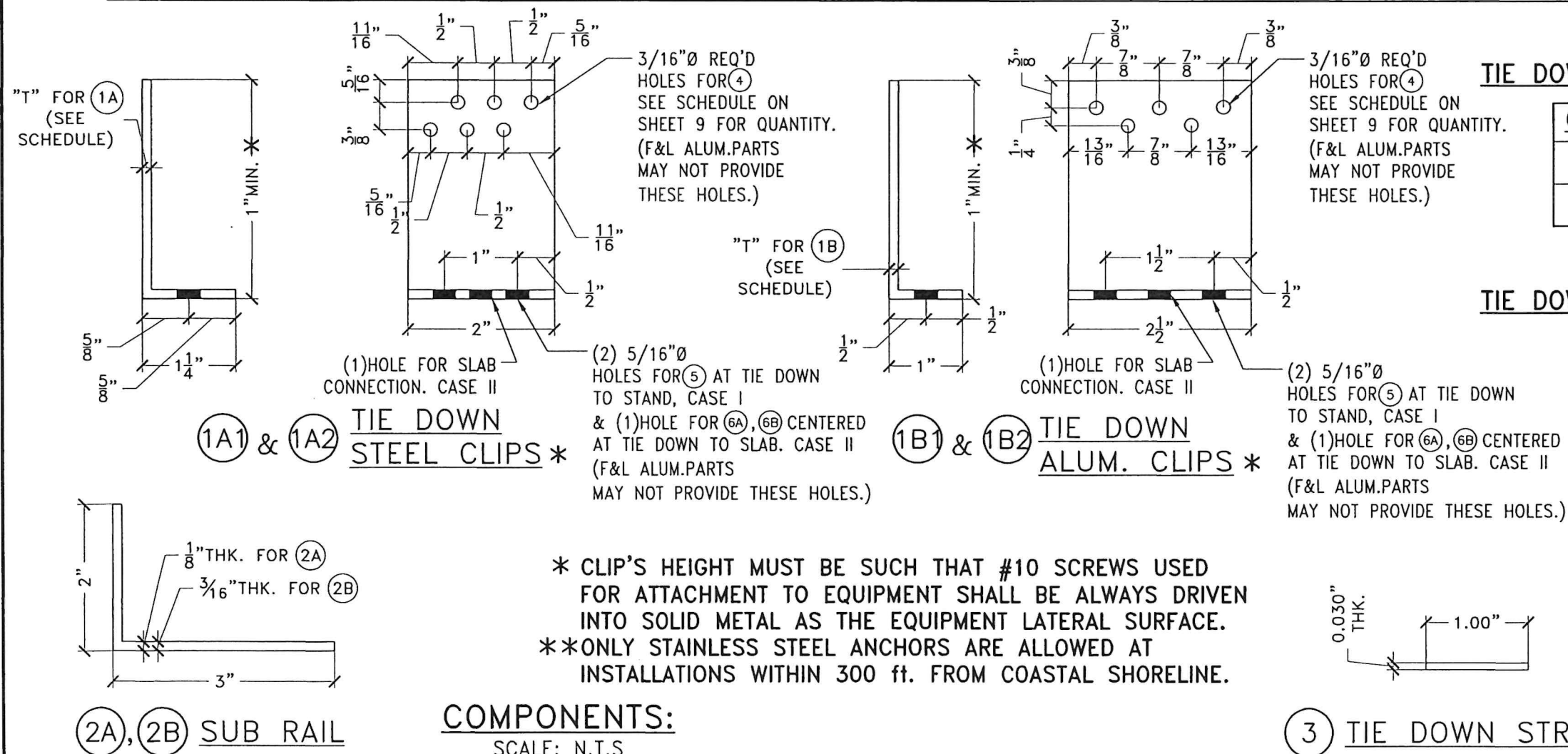
STATE OF FLORIDA

PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

BILL OF MATERIALS: VALID FOR CASES I & II INSTALLATION.

| COMPONENT No. | DESCRIPTION             | DIMENSIONS                                        | MATERIAL                                                                                    | MANUFACTURER/ DISTRIBUTOR                 | NOTES                                                                                                                                                                 |
|---------------|-------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1A            | TIE DOWN STEEL CLIPS    | SEE DETAIL.                                       | ASTM A-653 GRADE 50<br>Fu=90Ksi G-60 GALV.STL OR<br>AISI 410-HT S.S W/Fu=90Ksi<br>Fy=50Ksi. | F&L ALUMINUM PARTS.                       | SEE SCHEDULE ON SHEET 9 FOR QUANTITY REQ'D &<br>SEE SCHEDULE ON THIS SHEET FOR 1A1 & 1A2 THICKNESS.                                                                   |
| 1B            | TIE DOWN ALUMINUM CLIPS | SEE DETAIL.                                       | 5052-H32 AT 1B1<br>6063-T5 AT 1B2                                                           | F&L ALUMINUM PARTS.                       | SEE SCHEDULE ON SHEET 9 FOR QUANTITY REQ'D & SEE<br>SCHEDULE ON THIS SHEET FOR 1B1 & 1B2 THICKNESS.                                                                   |
| 2A            | SUB RAIL                | 2"x3"x1/8"THK.                                    | 6063-T5<br>ALUMINUM ALLOY                                                                   | EASTERN METAL SUPPLY<br>OR EQUAL.         | SEE SCHEDULE ON SHEET 9 FOR REQUIREMENTS.                                                                                                                             |
| 2B            | SUB RAIL                | 2"x3"x3/16"THK.                                   | 6061-T6<br>ALUMINUM ALLOY                                                                   | EASTERN METAL SUPPLY<br>OR EQUAL.         | SEE SCHEDULE ON SHEET 9 FOR REQUIREMENTS.                                                                                                                             |
| 3             | TIE DOWN STRAP          | 1.00" x 0.030"                                    | ASTM A-653 GRADE 33<br>G-60 GALV.STL Fy=33ksi<br>Fu=45ksi                                   | F&L ALUMINUM PARTS.                       | SEE SCHEDULE ON SHEET 9 FOR QUANTITY REQ'D                                                                                                                            |
| 4             | SCREW                   | #10 x 3/4"                                        | AISI 410 OR 304<br>SERIES S.S                                                               | ITW/BUILDEX                               | USE TO CONNECT TIE DOWN CLIPS 1A OR 1B TO CU. SEE<br>SCHEDULE ON SHEET 9 FOR QUANTITY PER CLIP. CASES I & II                                                          |
| 5             | BOLT TO RAIL            | 1/4"Ø-20 x 3/4"W/NUT<br>& 1"Ø.Dx0.050"thk WASHER. | AISI 304 OR 316<br>SERIES S.S                                                               | -                                         | USE TO CONNECT TIE DOWN CLIPS 1A OR 1B TO SUB RAILS<br>2A OR 2B & TO CONNECT SUB RAILS TO STAND'S RAIL. CASE I                                                        |
| 6A**          | ANCHOR TO SLAB          | 1/4"Ø ULTRACON +<br>OR ULTRACON SS4               | Fu=164Ksi Fy=148Ksi<br>STALGARD COATED CARBON STEEL                                         | DEWALT                                    | USE TO CONNECT CLIPS 1A OR 1B TO SLAB W/ 5/16"Ø HOLE AT CASE II, SEE<br>SCHEDULE ON SHEET 9. W/2 1/2"MIN. E.D & 1 3/4"MIN. EMBEDMENT.                                 |
| 6B**          | ANCHOR TO SLAB          | 5/16"Ø ULTRACON OR<br>3/8"Ø S.S KWIK BOLT 3       | Fu=177Ksi Fy=177Ksi STALGARD<br>COATED CARBON STEEL @ 5/16"Ø<br>& 304 S.S @ 3/8"Ø           | DEWALT AT 5/16"Ø OR<br>HILTI INC AT 3/8"Ø | USE TO CONNECT CLIPS 1A OR 1B TO SLAB W/ 3/8"Ø HOLE AT CASE II,<br>SEE SCHEDULE ON SHEET 9. W/3/8"MIN. E.D & 1 3/4"MIN. EMBEDMENT @ 5/16"<br>& 2-3/8" @ 3/8"Ø ANCHORS |



FLORIDA BUILDING CODE (High and Non High Velocity Hurricane Zone)

**TITLE DOWN INSTALLATION OF MECHANICAL  
CU UNITS INTO APPROVED STANDS**

|            |      |
|------------|------|
| 06/25/2026 | DATE |
| 26-083     |      |

**F&L ALUMINUM PARTS, INC.**  
 2087 N. POWERLINE RD. SUITE #1  
 POMPANO BEACH, FL. 33069

| I. No | DESCRIPTION | DATE    | REV. No | DESCRIPTION | DATE |
|-------|-------------|---------|---------|-------------|------|
| 1     | OLD 25-045  | 6/26/76 | 3       | -           | -    |

SHEET 2 OF 9

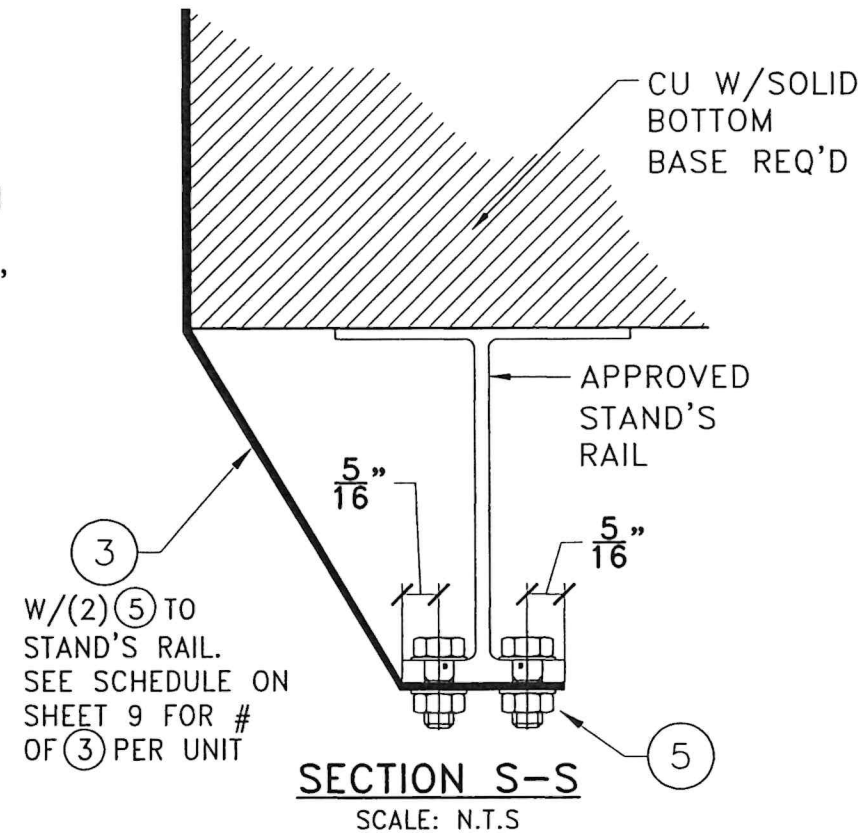
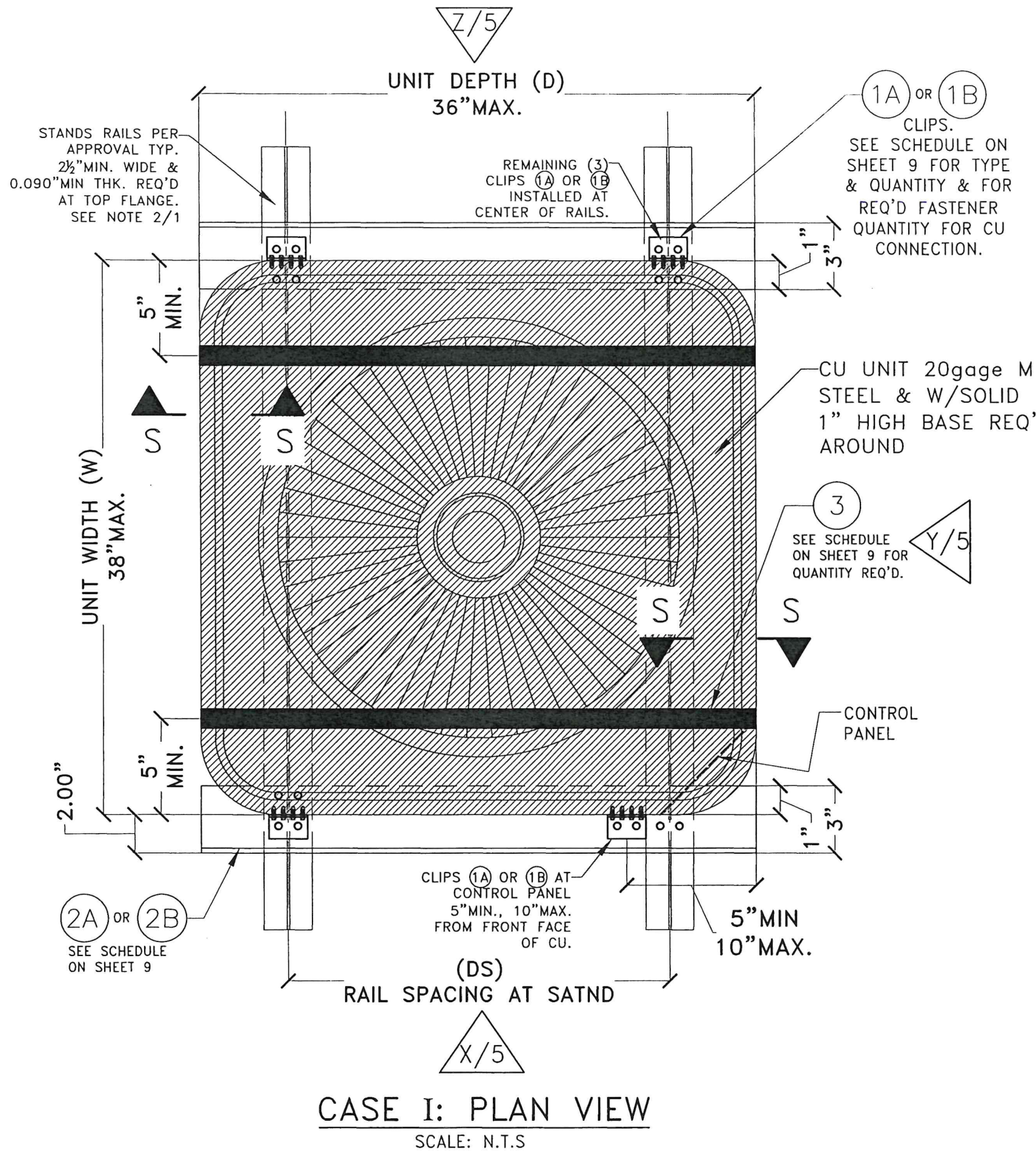
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**TILLIT TESTING & ENGINEERING COMPANY**  
 5355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
 Phone : (305)871-1530 • Fax : (305)871-1531  
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 CA--0006719  
**WALTER A. TILLIT Jr., P.E.**  
 FLORIDA Lic. # 44167





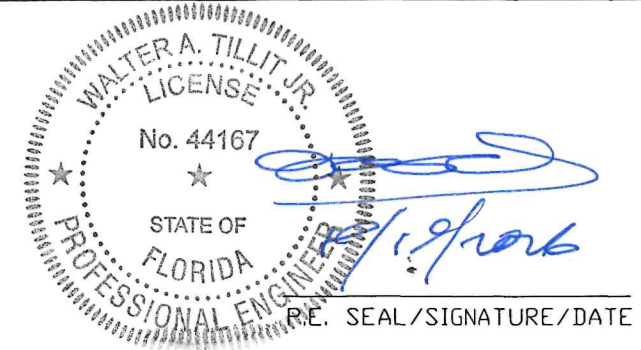
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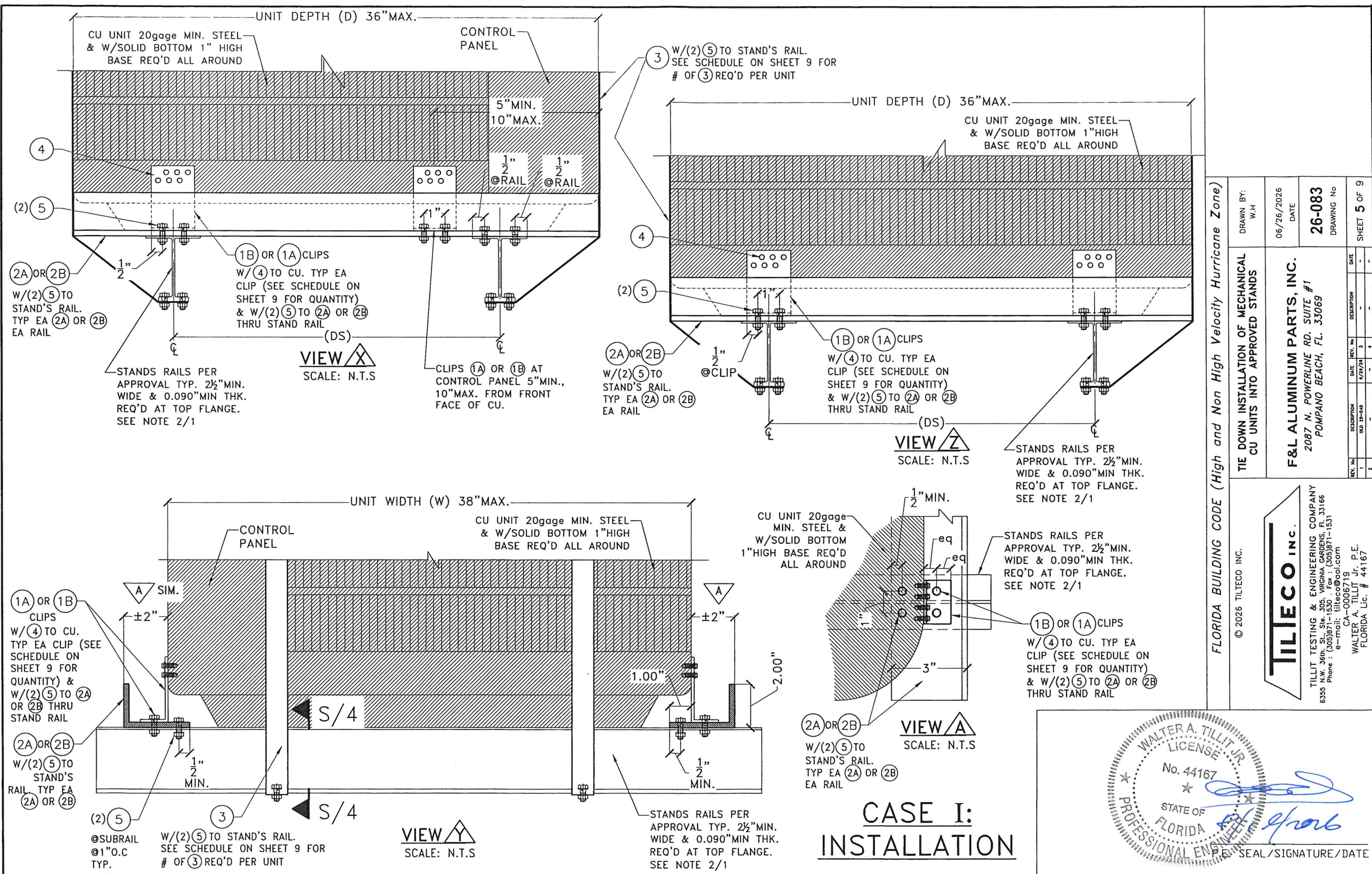
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| DRAWN BY:<br>W.H                                                     |  | DATE<br>06/26/2026                                                                     |  | DRAWING No<br>26-083 |             | SHEET 4 OF 9 |   |
| TIE DOWN INSTALLATION OF MECHANICAL<br>CU UNITS INTO APPROVED STANDS |  | F&L ALUMINUM PARTS, INC.<br>2087 N. POWERLINE RD. SUITE #1<br>POMPANO BEACH, FL. 33069 |  | REV. No              | DESCRIPTION | DATE         |   |
|                                                                      |  |                                                                                        |  | 1                    | OLD 25-045  | 6/21/26      | 3 |
|                                                                      |  |                                                                                        |  | 2                    |             |              | 4 |

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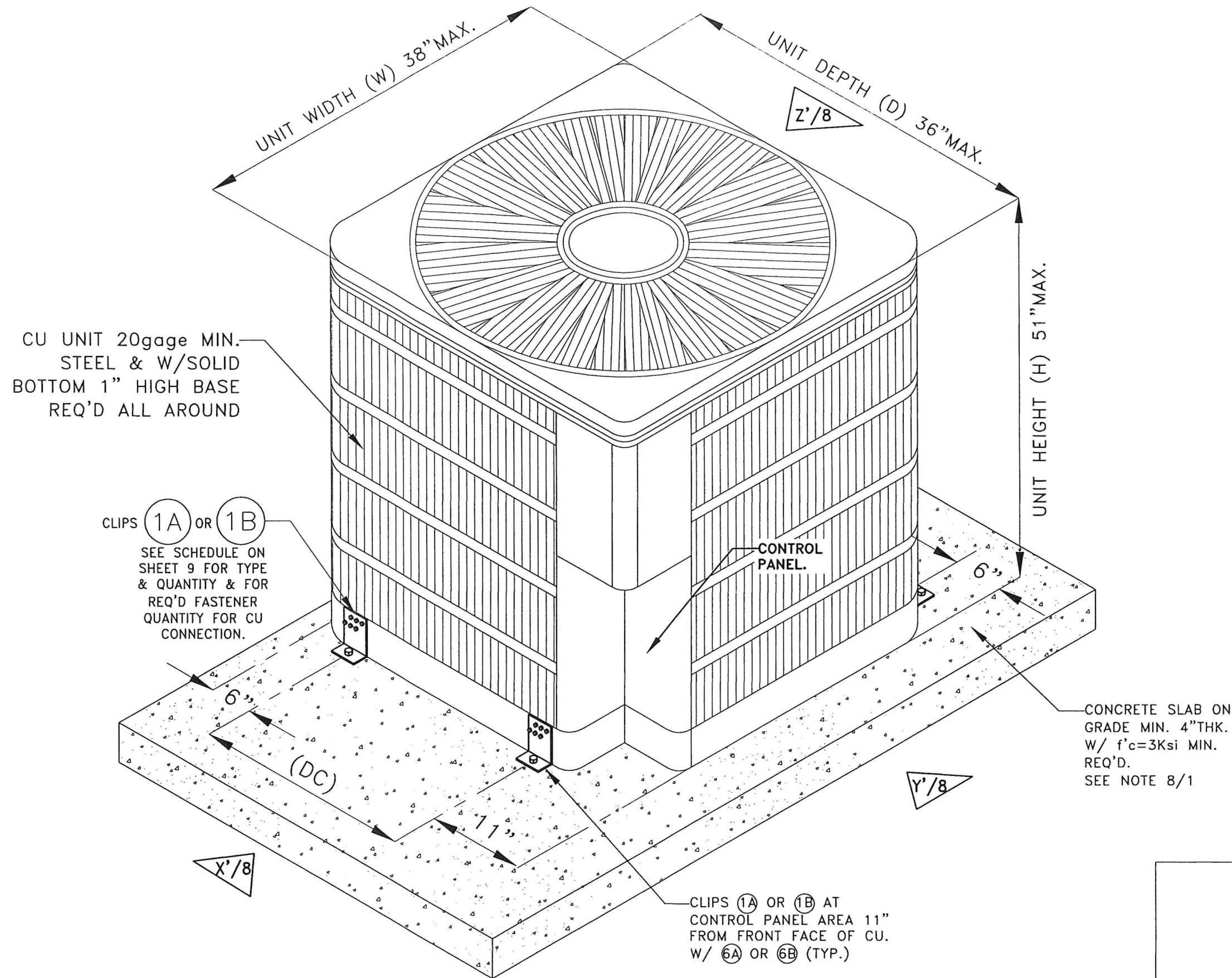


**FLORIDA BUILDING CODE (High and Non High Velocity Hurricane Zone)**

|                                                                   |  |                                                                                        |  |                                                                                                                                                                                                                                              |  |              |  |
|-------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|
| DRAWN BY: W.H                                                     |  | DATE: 06/26/2026                                                                       |  | DRAWING No: 26-083                                                                                                                                                                                                                           |  | SHEET 5 OF 9 |  |
| TIE DOWN INSTALLATION OF MECHANICAL CU UNITS INTO APPROVED STANDS |  | F&L ALUMINUM PARTS, INC.<br>2087 N. POWERLINE RD. SUITE #1<br>POMPANO BEACH, FL. 33069 |  | DATE: 6/26/24                                                                                                                                                                                                                                |  | REV. No: 3   |  |
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| REV. No | DESCRIPTION | DATE     | REV. No | DESCRIPTION | DATE |
|---------|-------------|----------|---------|-------------|------|
| 1       |             | 06/26/24 | 3       |             |      |
| 2       |             |          | 4       |             |      |

WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
SEAL/SIGNATURE/DATE



**CASE II: MECHANICAL UNIT CU TIE DOWN TO CONCRETE SLAB ON GRADE (SCHEMATIC)**

SCALE: N.T.S

NOTE: SEE PLAN VIEW ON SHEET 7

FLORIDA BUILDING CODE (High and Non High Velocity Hurricane Zone)

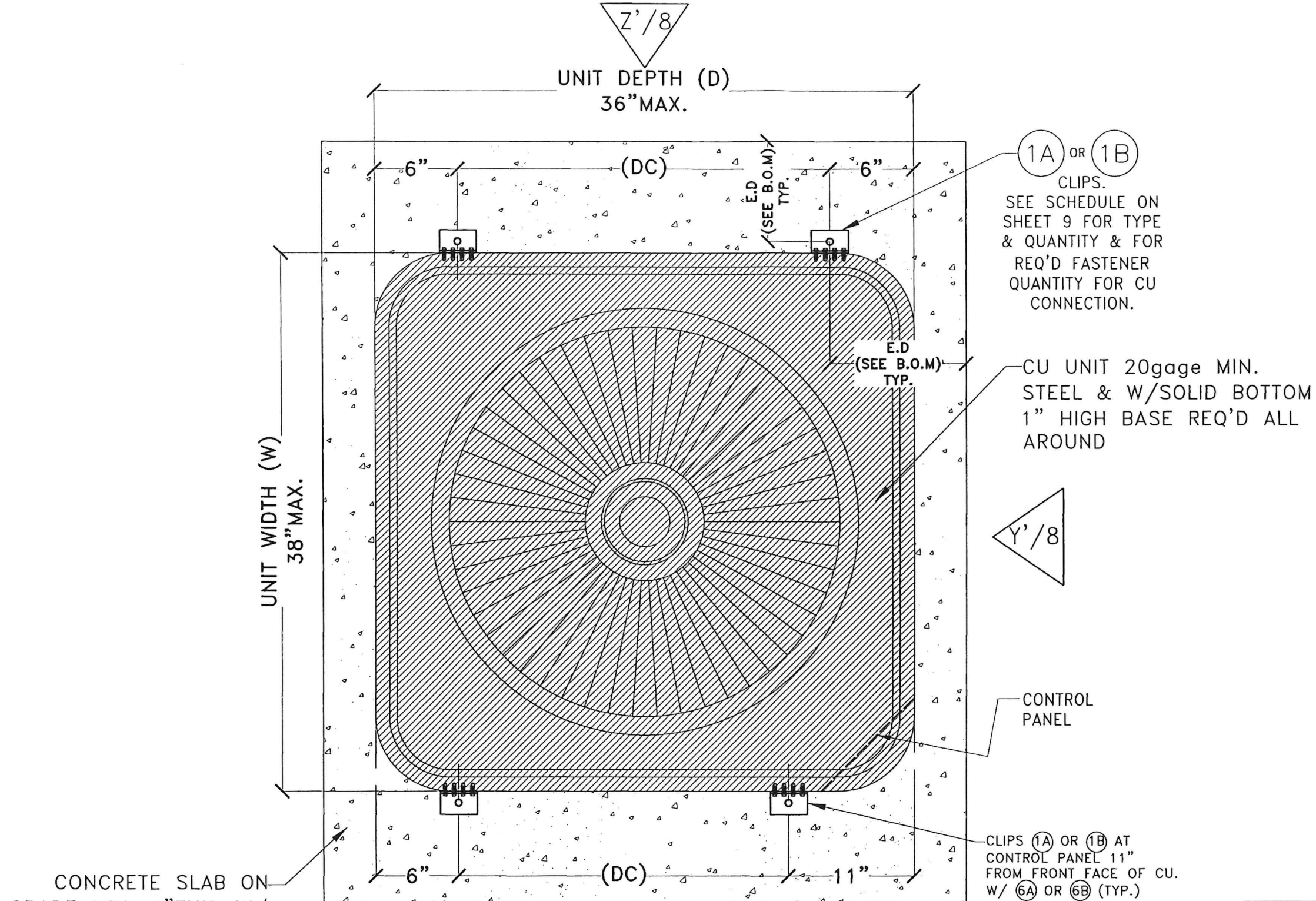
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| DRAWN BY:<br>W.H                                                  |  | DATE<br>06/26/2026                                                                     |  | DRAWING NO<br>26-083 |             | SHEET 6 OF 9 |   |
| TIE DOWN INSTALLATION OF MECHANICAL CU UNITS INTO APPROVED STANDS |  | F&L ALUMINUM PARTS, INC.<br>2087 N. POWERLINE RD. SUITE #1<br>POMPANO BEACH, FL. 33069 |  | REV. NO              | DESCRIPTION | DATE         |   |
|                                                                   |  |                                                                                        |  | 1                    | OLD 25-0-5  | 6/21/26      | 3 |
|                                                                   |  |                                                                                        |  | 2                    |             |              | 4 |

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LICENSE  
No. 44167  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
SEAL/SIGNATURE/DATE



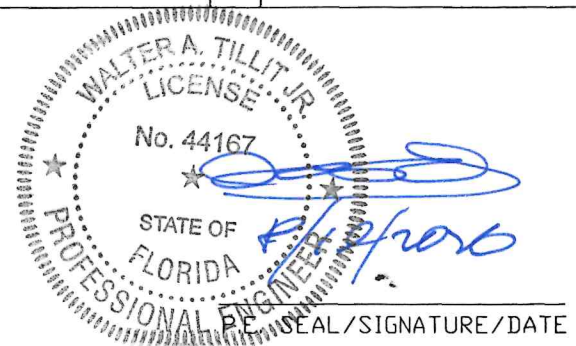
**CASE II: PLAN VIEW**  
SCALE: N.T.S

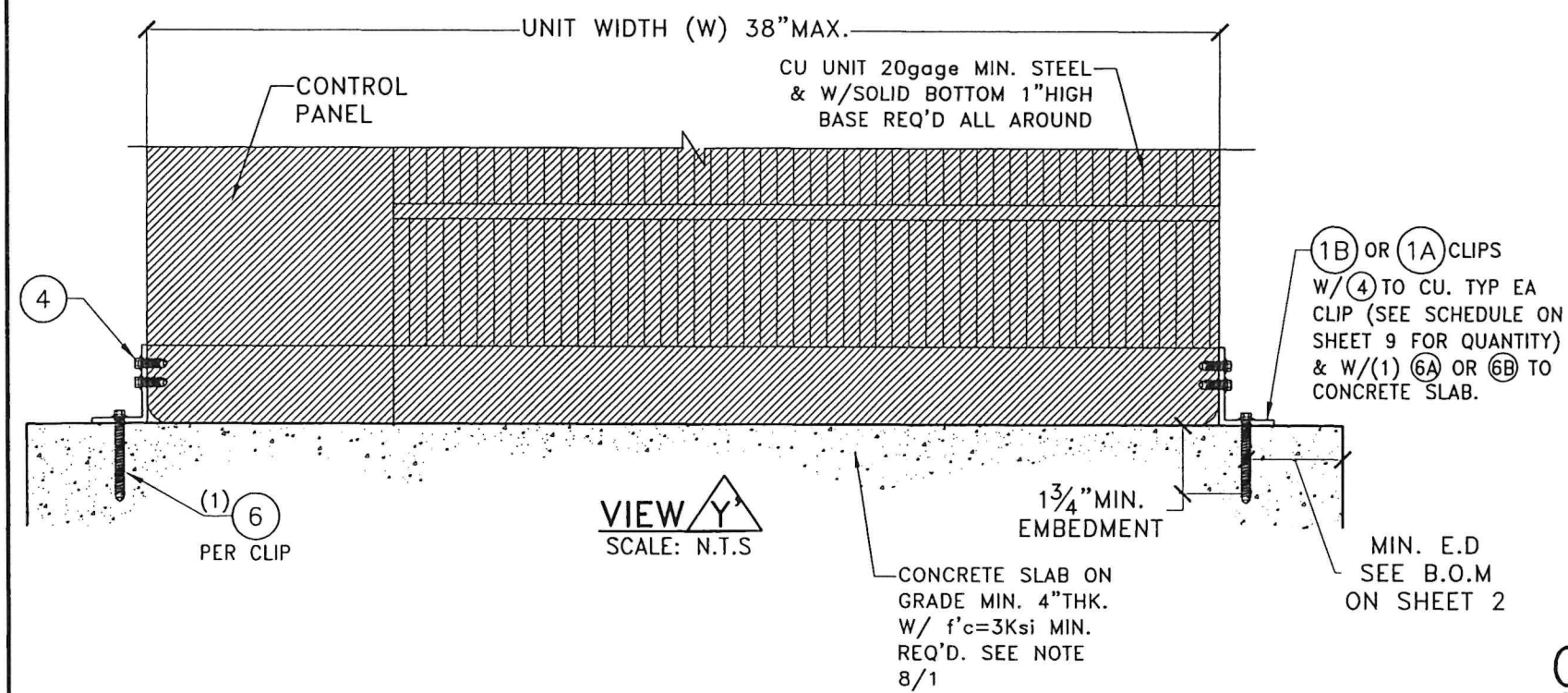
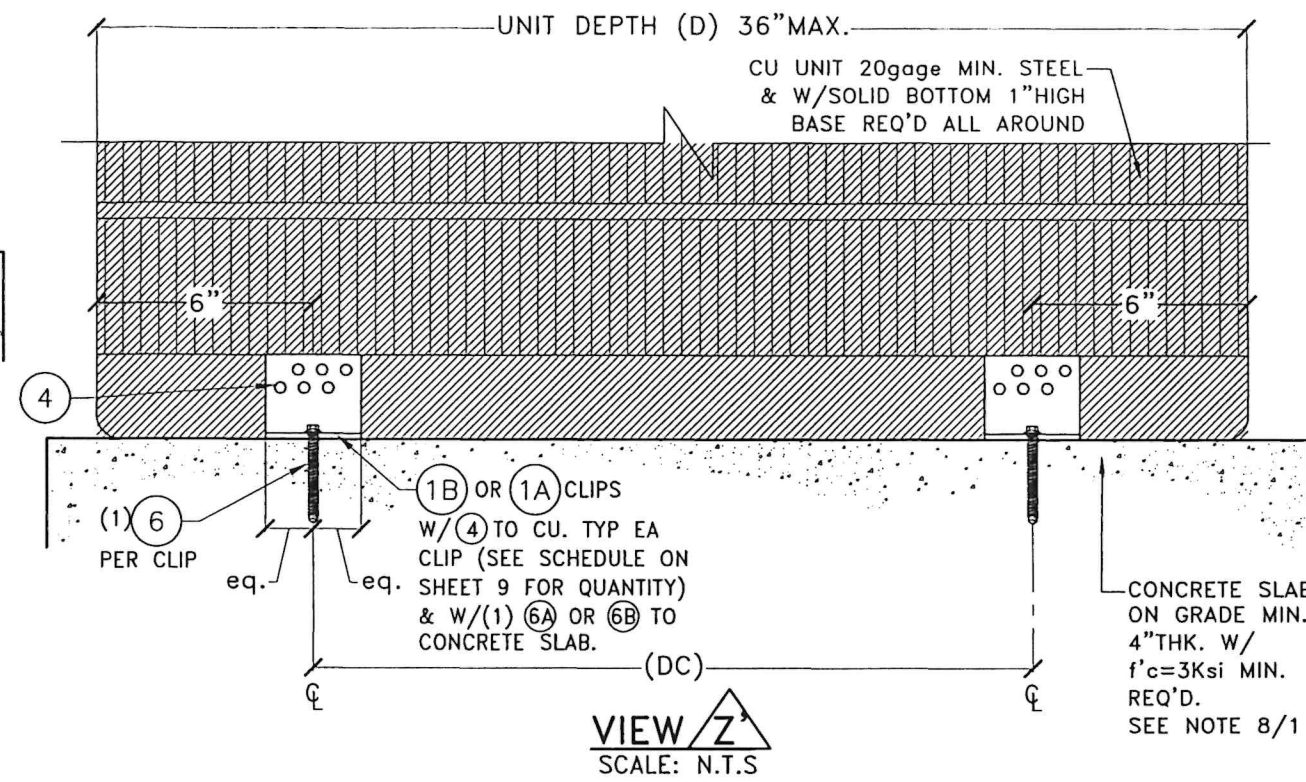
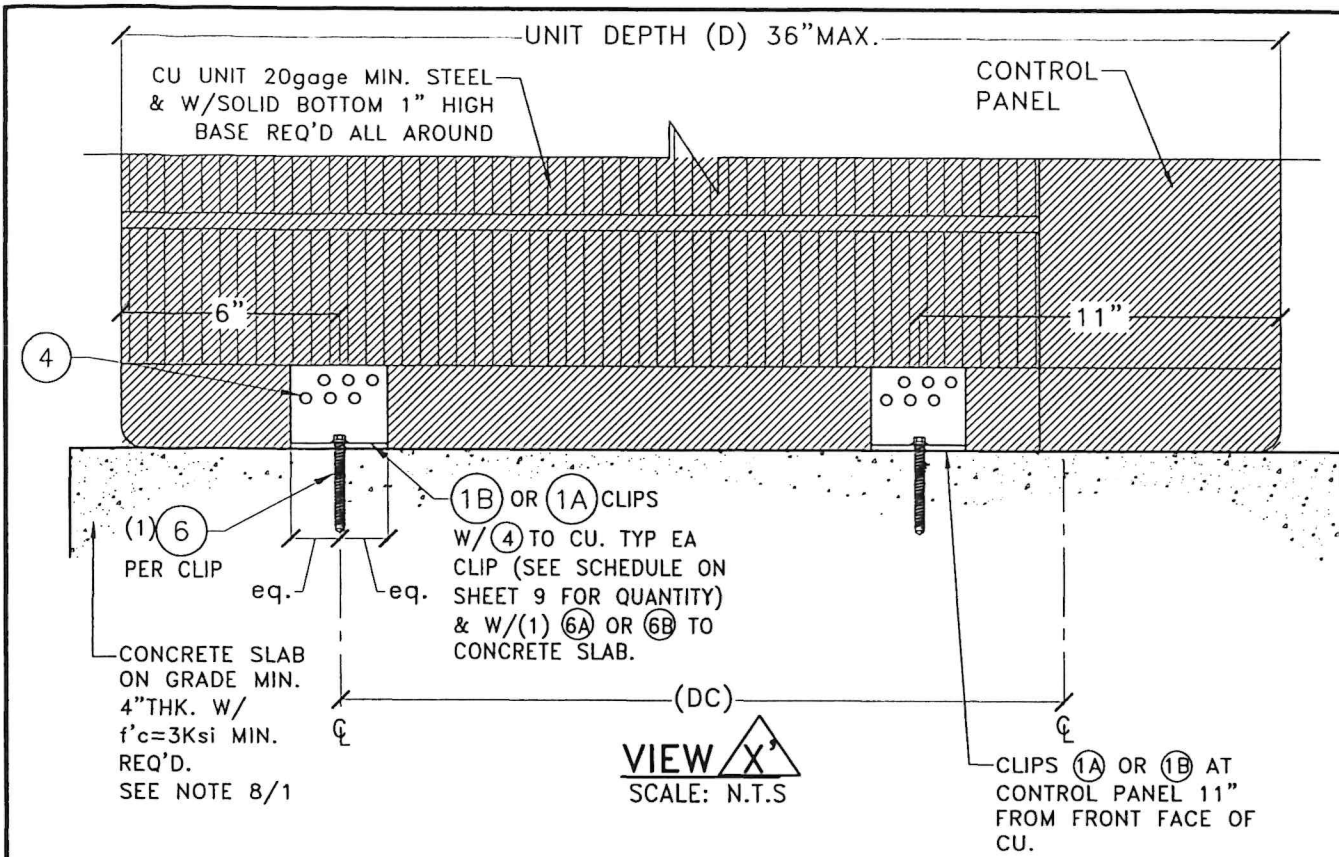
FLORIDA BUILDING CODE (High and Non High Velocity Hurricane Zone)

|                                                                      |  |                                                                                        |  |                      |  |              |  |
|----------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|----------------------|--|--------------|--|
| DRAWN BY:<br>W.H                                                     |  | DATE<br>06/26/2026                                                                     |  | DRAWING No<br>26-083 |  | SHEET 7 OF 9 |  |
| TIE DOWN INSTALLATION OF MECHANICAL<br>CU UNITS INTO APPROVED STANDS |  | F&L ALUMINUM PARTS, INC.<br>2087 N. POWERLINE RD. SUITE #1<br>POMPANO BEACH, FL. 33069 |  | REV. No              |  | DATE         |  |
| DESCRIPTION                                                          |  | REV. No                                                                                |  | DATE                 |  | DESCRIPTION  |  |
| 1                                                                    |  | 3                                                                                      |  | 6/24/26              |  | -            |  |
| 2                                                                    |  | 4                                                                                      |  | -                    |  | -            |  |

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## CASE II: INSTALLATION

**FLORIDA BUILDING CODE (High and Non High Velocity Hurricane Zone)**

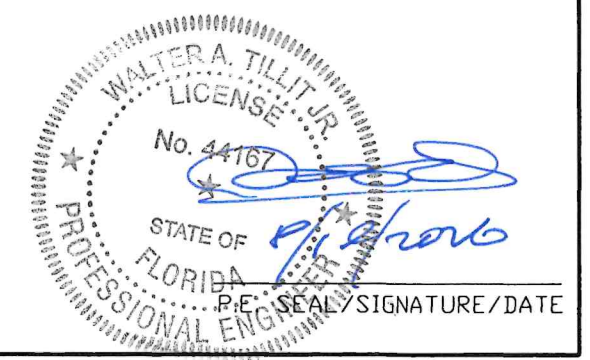
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**TIE DOWN INSTALLATION OF MECHANICAL CU UNITS INTO APPROVED STANDS**

**F&L ALUMINUM PARTS, INC.**  
2087 N. POWERLINE RD. SUITE #1  
POMPANO BEACH, FL. 33069

**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
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|           |     |             |            |            |        |              |
|-----------|-----|-------------|------------|------------|--------|--------------|
| DRAWN BY: | W.H | DATE        | 06/26/2026 | DRAWING No | 26-083 | SHEET 8 OF 9 |
| REV.      | No. | DESCRIPTION | DATE       | REV.       | No.    | DESCRIPTION  |
| 1         | 1   | OLD 12-0-03 | 4/19/26    | 3          | 4      |              |
| 2         |     |             |            |            |        |              |



# CASE I

## TIE DOWN SCHEDULE: CU TO APPROVED STANDS

| MAX. ASD PRESSURE RATING  |                          | "DS" AT STAND       | REQ'D TOTAL NUMBER & TYPE OF CLIPS<br>(1A) OR (1B)/CU     |                                                                 | REQ'D NUMBER OF STRAP<br>(3) | REQ'D SUB-RAIL<br>(2A) OR (2B) | # OF (4) PER CLIP |       |      |       |
|---------------------------|--------------------------|---------------------|-----------------------------------------------------------|-----------------------------------------------------------------|------------------------------|--------------------------------|-------------------|-------|------|-------|
| LATERAL                   | UPLIFT                   |                     | FOR H ≤ 43 3/4"                                           | FOR H >43 3/4" TO ≤51"                                          |                              |                                | (1A)              | (1A2) | (1B) | (1B2) |
| ≤55.0 psf                 | ≤43.4 psf                | 20" MIN.<br>24" MAX | (4)(1A) OR (1B) OR (1B2)<br>W/NO STRAPS REQ'D             | (4)(1A) W/NO STRAPS REQ'D<br>(4)(1B) OR (1B2) W/(2)STRAPS REQ'D | VARIES.<br>SEE REQUIREMENTS  | (2A)                           | 4                 |       |      | 5     |
| ≥55.0 psf<br>TO 82.1 psf  | ≥43.4 psf<br>TO 64.8 psf | 20" MIN.<br>24" MAX | (4)(1A) OR (1B) OR (1B2)<br>W/STRAPS REQ'D                | (4)(1A) OR (1B) OR (1B2)<br>W/STRAPS REQ'D                      | 2                            | (2A)                           | 4                 |       |      | 5     |
| ≥82.1 psf<br>TO 103.2 psf | ≥64.8 psf<br>TO 81.4 psf | 20" MIN.<br>24" MAX | (4)(1A) OR (1A2) OR<br>(4)(1B) OR (1B2)<br>W/STRAPS REQ'D | (4)(1A1)<br>W/STRAPS REQ'D                                      | 2                            | (2A)                           | 4                 |       |      | 5     |
| ≥103.2 psf<br>TO 112.7psf | ≥81.4 psf<br>TO 89.0 psf | 20" MIN.<br>24" MAX | (4)(1A) OR (1A2) OR<br>(4)(1B) OR (1B2)<br>W/STRAPS REQ'D | (4)(1A2)<br>W/STRAPS REQ'D                                      | 2                            | (2A)                           | 4                 |       |      | 5     |
| ≥112.7 psf<br>TO 121.7psf | ≥89.0 psf<br>TO 96.1psf  | 20" MIN.<br>24" MAX | (4)(1A) OR (1A2) OR<br>(4)(1B) OR (1B2)<br>W/STRAPS REQ'D | (4)(1A2)<br>W/STRAPS REQ'D                                      | 2                            | (2A)                           | 4                 |       |      | 5     |
| ≥121.7 psf<br>TO 131.1psf | ≥96.1 psf<br>TO 103.5psf | 20" MIN.<br>24" MAX | (4)(1A) OR (1A2)<br>W/STRAPS REQ'D                        | (4)(1A2)<br>W/STRAPS REQ'D                                      | 2                            | (2B)                           | 6                 |       |      | 5     |

# CASE II:

## TIE DOWN SCHEDULE: CU TO CONCRETE SLAB ON GRADE.

| MAX. ASD PRESSURE RATING |           | "DC"                                   | REQ'D TOTAL NUMBER & TYPE OF CLIPS<br>(1A) OR (1B)/CU & ANCHOR TYPE EA CLIP. |                        | # OF (4) PER CLIP |       |      |       |
|--------------------------|-----------|----------------------------------------|------------------------------------------------------------------------------|------------------------|-------------------|-------|------|-------|
| LATERAL                  | UPLIFT    |                                        | FOR H ≤ 43 3/4"                                                              | FOR H >43 3/4" TO ≤51" | (1A)              | (1A2) | (1B) | (1B2) |
| ≤60.0 psf                | ≤47.4 psf | SEE PLAN ON SHEET 7 FOR CLIP LOCATION. | (4)(1A) W/ (6A)<br>(4)(1A2) W/ (6A)<br>(4)(1B) W/ (6A)<br>(4)(1B2) W/ (6A)   | (4)(1A2) W/ (6B)*      | 4                 |       |      | 5     |

\* NOTE: (4) (1A2) W/ (6A) MAY BE USED FOR H ≤ 47 1/2"  
SEE \*\* NOTE ON SHEET 2 OF 9

## DESIGN PRESSURE REQUIREMENTS FOR SOME WIND SPEED .

| MAX. ULTIMATE WIND SPEED<br>(m.p.h) | MAX. MEAN ROOF HEIGHT<br>(ft) | EXPOSURE CATEGORY | REQUIREMENT ASD WIND PRESSURES (p.s.f) |        |
|-------------------------------------|-------------------------------|-------------------|----------------------------------------|--------|
|                                     |                               |                   | LATERAL                                | UPLIFT |
| 142                                 | ≤20'-0"                       | C                 | 45.0                                   | 35.6   |
|                                     |                               | D                 | 54.1                                   | 42.7   |
|                                     | ≥20' TO 75'                   | C                 | 59.5                                   | 46.9   |
|                                     |                               | D                 | 67.9                                   | 53.6   |
|                                     | ≥75' TO 125'                  | C                 | 66.2                                   | 52.3   |
|                                     |                               | D                 | 74.2                                   | 58.6   |
|                                     | ≥125' TO 195'                 | C                 | 72.7                                   | 57.3   |
|                                     |                               | D                 | 80.1                                   | 63.3   |
|                                     | ≥195' TO 300'                 | C                 | 79.5                                   | 62.8   |
|                                     |                               | D                 | 86.3                                   | 68.1   |
| 175                                 | ≤20'-0"                       | C                 | 68.4                                   | 54.0   |
|                                     |                               | D                 | 82.1                                   | 64.8   |
|                                     | ≥20' TO 75'                   | C                 | 90.3                                   | 71.3   |
|                                     |                               | D                 | 103.2                                  | 81.4   |
|                                     | ≥75' TO 125'                  | C                 | 100.5                                  | 79.4   |
|                                     |                               | D                 | 112.7                                  | 89.0   |
|                                     | ≥125' TO 195'                 | C                 | 110.4                                  | 87.1   |
|                                     |                               | D                 | 121.7                                  | 96.1   |
|                                     | ≥195' TO 300'                 | C                 | 120.8                                  | 95.4   |
|                                     |                               | D                 | 131.1                                  | 103.5  |
| 186                                 | ≤20'-0"                       | C                 | 77.3                                   | 61.0   |
|                                     |                               | D                 | 92.7                                   | 73.2   |
|                                     | ≥20' TO 75'                   | C                 | 102.0                                  | 80.5   |
|                                     |                               | D                 | 116.6                                  | 91.9   |
|                                     | ≥75' TO 125'                  | C                 | 113.5                                  | 89.7   |
|                                     |                               | D                 | 127.3                                  | 100.5  |
|                                     | ≥125' TO 195'                 | C                 | 124.7                                  | 98.4   |
|                                     |                               | D                 | -                                      | -      |
|                                     | ≥195' TO 300'                 | C                 | -                                      | -      |
|                                     |                               | D                 | -                                      | -      |

NOTE: WIND SPEED IS BASED ON RISK CATEGORY OF BUILDING WHERE INSTALLATION WILL BE MADE, AND SHALL BE CHOSEN BASED ON ASCE 7-22 CRITERIA.

FLORIDA BUILDING CODE (High and Non High Velocity Hurricane Zone)

DRAWN BY:  
W.H

DATE  
06/26/2026

DRAWING No  
**26-083**

SHEET **9** OF **9**

TIE DOWN INSTALLATION OF MECHANICAL CU UNITS INTO APPROVED STANDS

**F&L ALUMINUM PARTS, INC.**  
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POMPANO BEACH, FL. 33069

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