



MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

United Enertech Holdings, LLC
3005 South Hickory Street
Chattanooga, TN 37407

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model FL-D-6 Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. **20-207**, titled "Aluminum Louver System Model FL-D-6, sheets 1 through 16 of 16, dated 07/21/2020, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

LIMITATION: This louver has not been evaluated for compliance with the impact testing standard ANSI/AMCA 540.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** and **revises** NOA # **20-0115.04** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No. 20-0901.02
 Expiration Date: January 17, 2026
 Approval Date: November 25, 2020
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS “Submitted under NOA # 15-0420.04”

1. Drawing No. **15-025**, titled “Aluminum Louver System Model FL-D-6, sheets 1 through 15 of 15, dated 03/16/2015, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E. on 03/31/2015.

B. TESTS “Submitted under NOA # 11-0104.03”

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of a Model FLD-4 Aluminum Louver System, prepared by American Test Lab of South Florida, Test Report No. **1207.01-10**, dated 12/22/2010, signed and sealed by Julio E. Gonzalez, P.E.

C. CALCULATIONS “Submitted under NOA # 15-0420.04”

1. Revision to aluminum louver system Model FL-D-6 prepared by Tilteco Inc, dated 03/16/2015, signed and sealed by Walter A. Tillit Jr., P.E.

“Submitted under NOA # 11-0104.03”
2. Revision to aluminum louver system Model FL-D-6 prepared by Tilteco Inc, dated 12/09/2014, signed and sealed by Walter A. Tillit Jr., P.E.

“Submitted under NOA # 08-0902.09”
3. Revision to Aluminum Louver System Model FL-D-6, prepared by Tilteco Inc, dated 08/21/2008, sheets 1 through 134 of 134, complying with F.B.C. 2007, signed and sealed by Walter A. Tillit Jr., P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS “Submitted under NOA # 11-0104.03”

1. Test report on Tensile Test per ASTM E8, issued by QC Metallurgical, Inc., dated 12/21/2010, signed and sealed by Frank E. Grate Jr., P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0901.02
Expiration Date: January 17, 2026
Approval Date: November 25, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS “Submitted under NOA # 15-0420.04”

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Tilteco, Inc, dated 03/31/2015, signed and sealed by Walter A. Tillit Jr., P.E.

“Submitted under NOA # 12-0120.06”

2. Statement letter of code conformance to 2010 FBC issued by Tilteco, Inc, dated 01/16/2012, signed and sealed by Walter A. Tillit Jr., P.E.

“Submitted under NOA # 11-0104.03”

2. Statement letter of no financial interest issued by Tilteco, Inc, dated 12/23/2010, signed and sealed by Walter A. Tillit Jr., P.E.

2. EVIDENCE SUBMITTED UNDER NOA #17-0823.07

A. DRAWINGS

1. Drawing No. 17-127, titled “Aluminum Louver System Model FL-D-6”, sheets 1 through 15 of 15, dated 08/02/2017, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Revision to aluminum louver system Model FL-D-6 prepared by Tilteco Inc., dated 08/15/2017, signed and sealed by Walter A. Tillit Jr., P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to 6th Edition (2017) FBC, issued by Tilteco, Inc., dated 08/02/2017, signed and sealed by Walter A. Tillit Jr., P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0901.02
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER NOA # 20-0115.04

A. DRAWINGS

1. Drawing No. **17-127**, titled “Aluminum Louver System Model FL-D-6, sheets 1 through 15 of 15, dated 08/02/2017, with revision dated 11/08/2019, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Letter requesting the company name change from “United Enertech Corp.” to its parent company, “United Enertech Holdings, LLC”, issued by Winstead PC, dated 01/31/2020, signed by Andrew J. Ostapko, Attorney.
2. Certificate of merger between “United Enertech Corp.” and “Enertech Acquisition Corp.”, issued by the State of Delaware, dated 01/04/2017.
3. Amended and restated certificate of incorporation of “United Enertech Corp.” (F/K/A “Enertech Acquisition Corp.”, issued by the State of Delaware, dated 12/30/2016.
4. Certificate of formation of “United Enertech Holdings, LLC”, issued by the State of Delaware, dated 12/02/2016.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0901.02
Expiration Date: January 17, 2026
Approval Date: November 25, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **20-207**, titled “Aluminum Louver System Model FL-D-6, sheets 1 through 16 of 16, dated 07/21/2020, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to **7th Edition (2020) FBC**, issued by Tilteco, Inc., dated 07/27/2020, signed and sealed by Walter A. Tillit Jr., P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0901.02
Expiration Date: January 17, 2026
Approval Date: November 25, 2020

GENERAL NOTES:

1. ALUMINUM LOUVER SYSTEM SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) AND 2017 (6th EDITION) OF THE FLORIDA BUILDING CODE. THIS PRODUCT MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES (H.V.H.Z).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-16 (FBC 2020) AND ASCE 7-10 (FBC 2017) AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-16 & ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.A.D AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS, A DURATION FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS SPACINGS IN WOOD.

ALUMINUM LOUVER SYSTEM'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER AMERICAN TESTING LAB OF SOUTH FLORIDA REPORTS # 0604.01-01 AND 1207.01-10 AS PER TAS-201, TAS-202 & TAS-203 PROTOCOLS, AS WELL AS PER ANSI/AMCA IMPACT STANDARD 540-08, PER INTERTEK/ARCHITECTURAL TESTING REPORT # E 0370.01-550-18.

2. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY (UNLESS OTHERWISE NOTED). ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2015 ALUMINUM DESIGN MANUAL.

3. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES W/ 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018. THRU BOLTS AT MULLION TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL SCREWS AND BOLTS SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

4. ALL ALUMINUM COMPONENTS FRAMING SHALL BE WELDED IN ACCORDANCE WITH AWS D1.2 ,PER THE AMERICAN WELDING SOCIETY LATEST EDITION REGULATIONS USE CERTIFIED WELDERS. USE ER-5356 ELECTRODES.

5. JAMB ANCHOR REQUIREMENTS: EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.

(A) TO EXISTING POURED CONCRETE: (MIN. f'c = 3192 psi), MIN. EDGE DISTANCE (E.D.) = 2 1/2" - 1/4"Ø TAPCON ANCHORS W/ 1 3/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX.

(B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) = 2 1/2" - 1/4"Ø TAPCON ANCHORS W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX.

(C) TO EXISTING 2x P.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1 1/2" - 1/4"Ø LAG SCREWS W/ 1 1/2" MIN. EMBEDMENT, AS PER N.D.S. 2015

(D) TO EXISTING MIN. 1/8" THICK STEEL MEMBER (ASTM A-500, A-653 OR A-36) MIN. EDGE DISTANCE (E.D.) = 1/2" - 1/4"Øx3/4", AS MANUFACTURED BY ITW BUILDEX.

(E) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

6. ANCHORS REQUIRED FOR MULLION CONNECTIONS SHALL BE AS SPECIFIED ON APPLICABLE SECTIONS SHOWN ON SHEETS 13, 14 & 15.

ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

7. THIS LOUVER SHALL BE ONLY INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, AND THE ROOM WILL HOUSE WATER RESISTENT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.

8. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE LOUVER SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.

9. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, G = 0.55.

10. (A) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION INCLUDING LIFE SAFETY, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(C) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

(D) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D.

(E) ORIGINAL P.A.D SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OR RECORD THAT PREPARED IT.

11. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

PRODUCT REVISED
as complying with the Florida Building Code

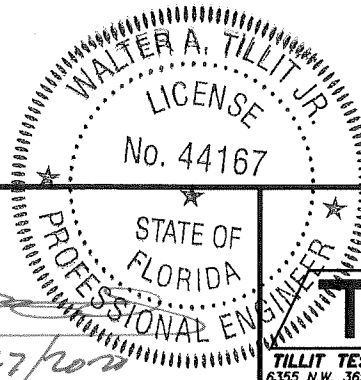
NOA-No. 20-0901.02

Expiration Date 01/17/2026



By 
Miami-Dade Product Control

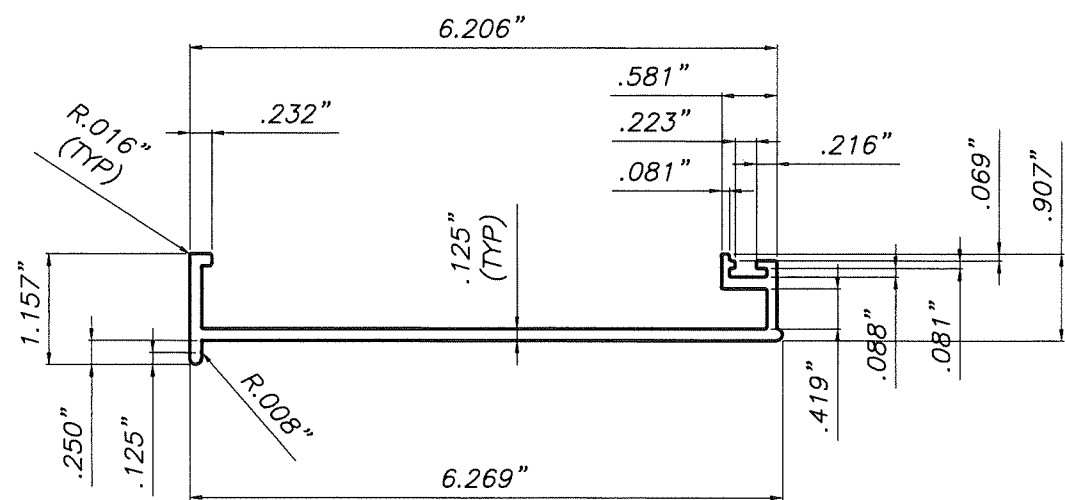
MAXIMUM A.S.D. DESIGN PRESSURE
RATING +150.0, -150.0 psf.
LARGE MISSILE IMPACT RESISTANCE.

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

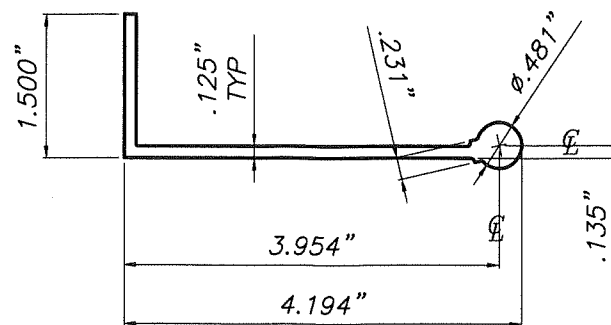


FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

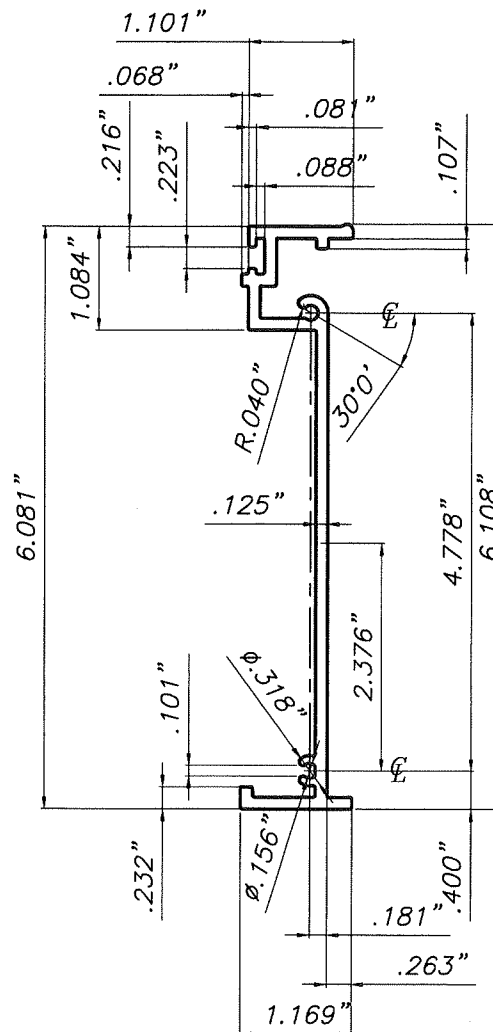
 © 2020 TILTECO, INC TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530. Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	ALUMINUM LOUVER SYSTEM MODEL FL-D-6	M.P. DRAWN BY																		
	UNITED ENERTECH HOLDINGS, LLC 3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407 159 GENCO DRIVE HARTFORD, AL 36344 PHONE: (423)698-7715 FAX: (423)698-6629	7/21/2020 DATE																		
P.E. SEAL/SIGNATURE/DATE 	<table border="1"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 17-127</td> <td>7/21/2020</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 17-127	7/21/2020	3	-	-	2	-	-	4	-	-	20-207 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
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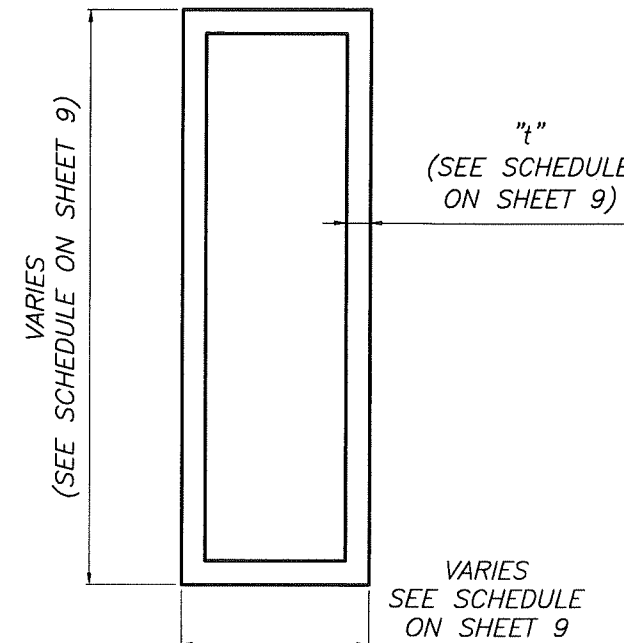
① 6" TOP BLADE
SCALE: 3/8"=1"



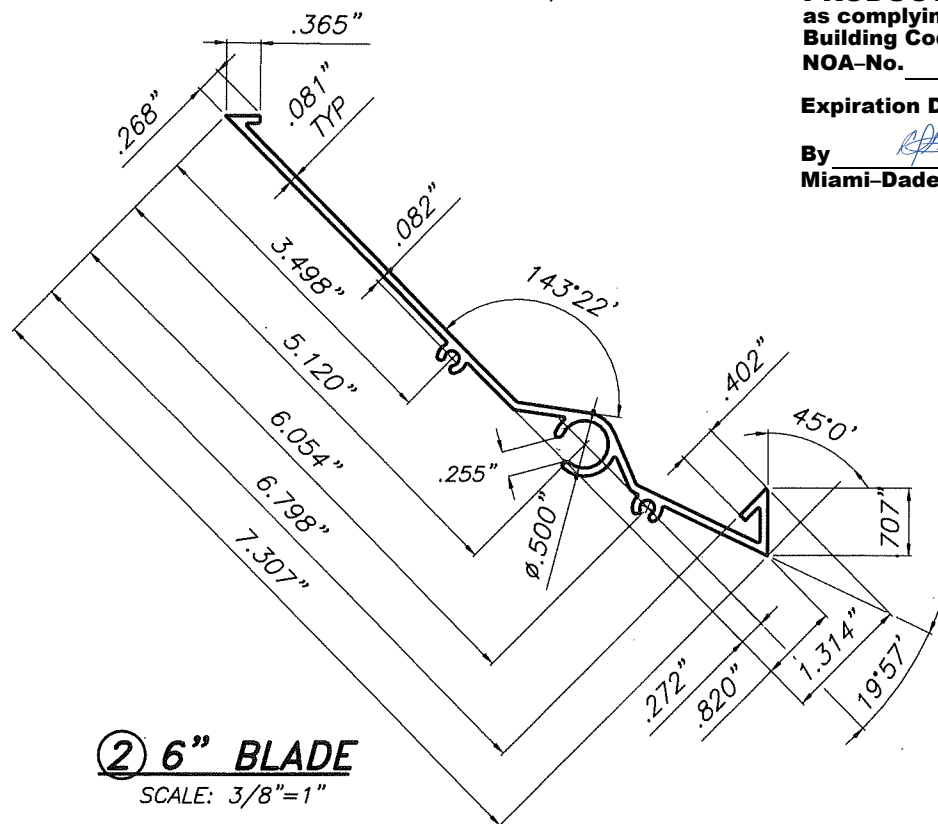
③ 6" BLADE SUPPORT
SCALE: 3/8"=1"



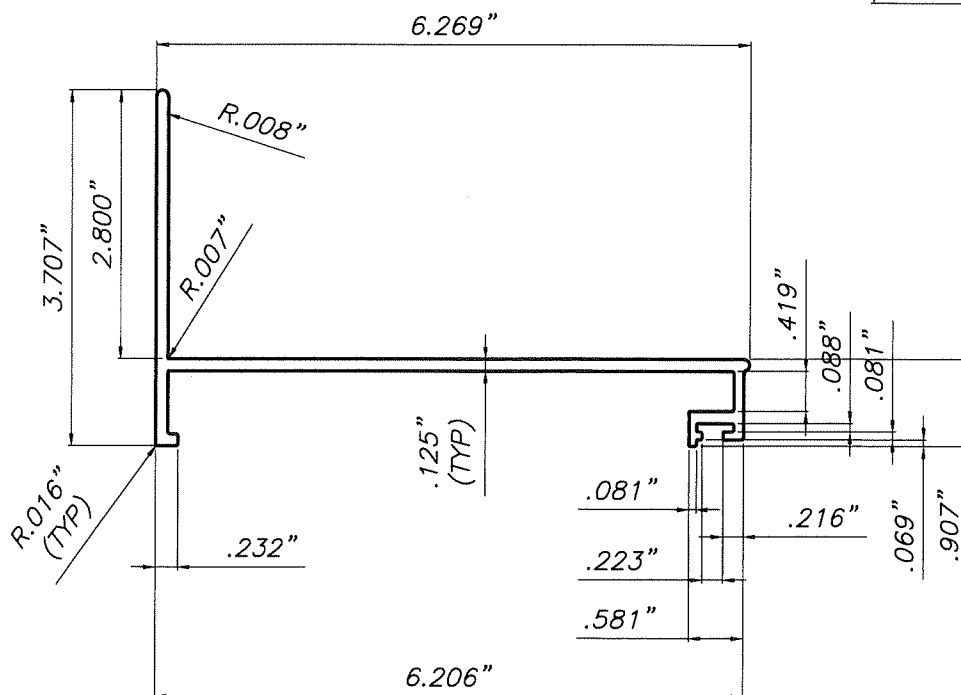
⑤ 6" SIDE JAMB
SCALE: 3/8"=1"



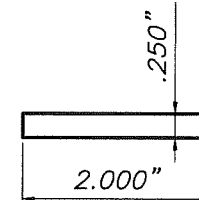
⑦ MULLION
6063-T6 ALLOY
SCALE: 3/8"=1"



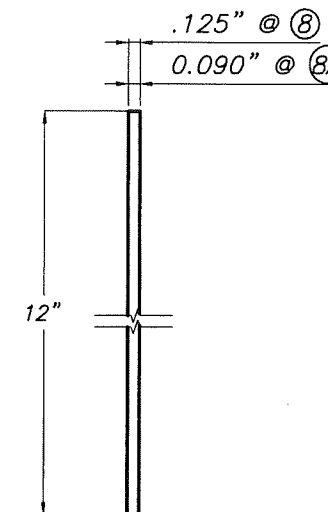
② 6" BLADE
SCALE: 3/8"=1"



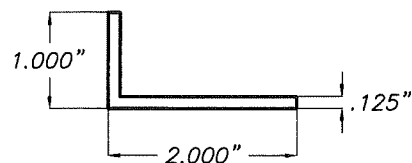
④ 6" BOTTOM BLADE
SCALE: 3/8"=1"



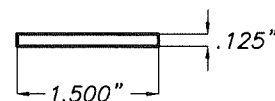
⑥ LOUVER IMPACT STRAP
6463-T6 ALLOY
SCALE: 3/8"=1"



⑧ & ⑧A ALUMINUM SLEEVES
(OPTIONAL)
3003-H14 ALLOY



⑨ JAMB ANGLE



⑩ HORIZONTAL MULLION STRIP

COMPONENTS

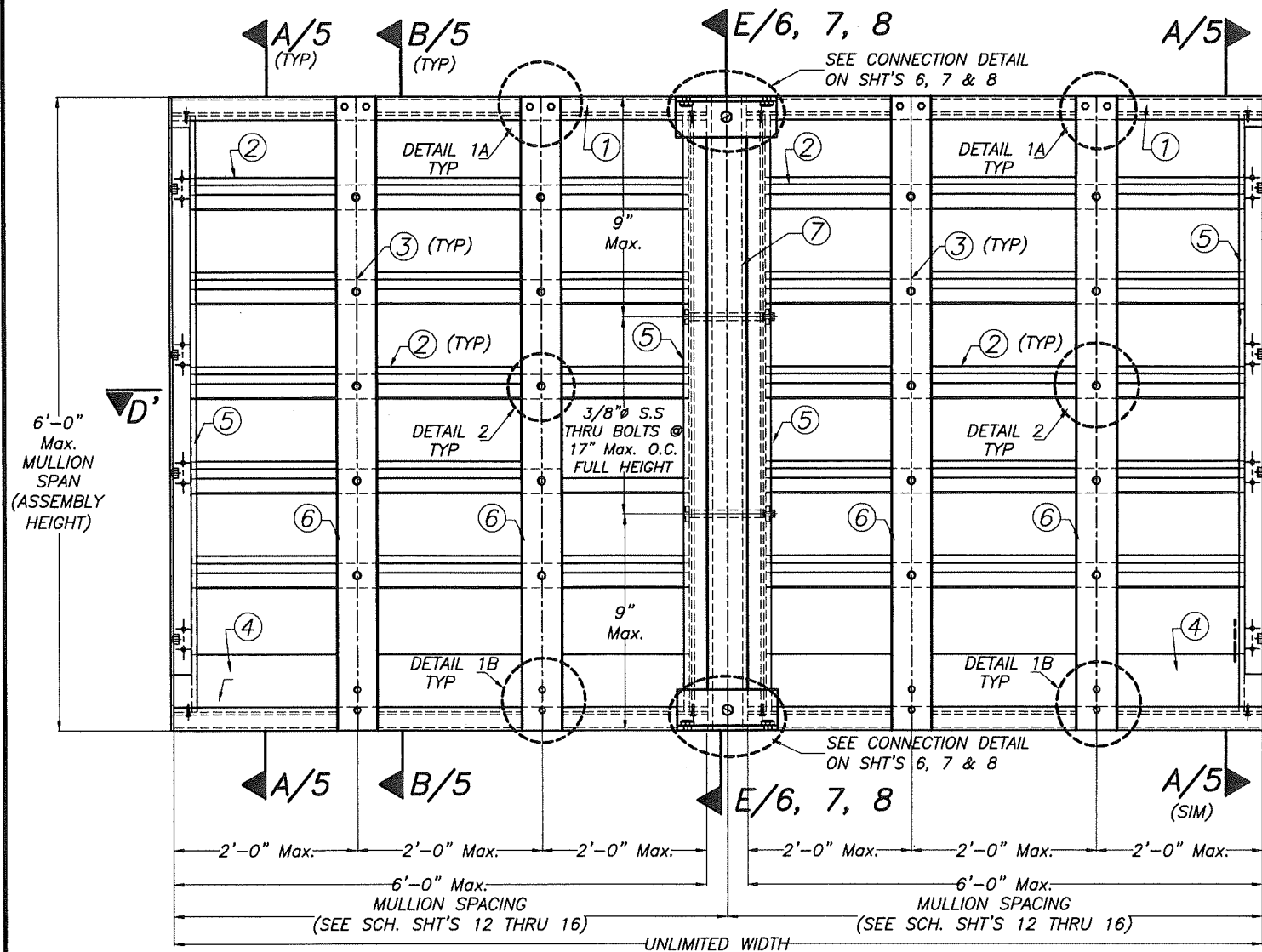
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0901.02
Expiration Date 01/17/2026
By *[Signature]*
Miami-Dade Product Control

WALTER A. TILLIT JR.
LICENSE No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
[Signature]
P.E. SEAL/SIGNATURE/DATE

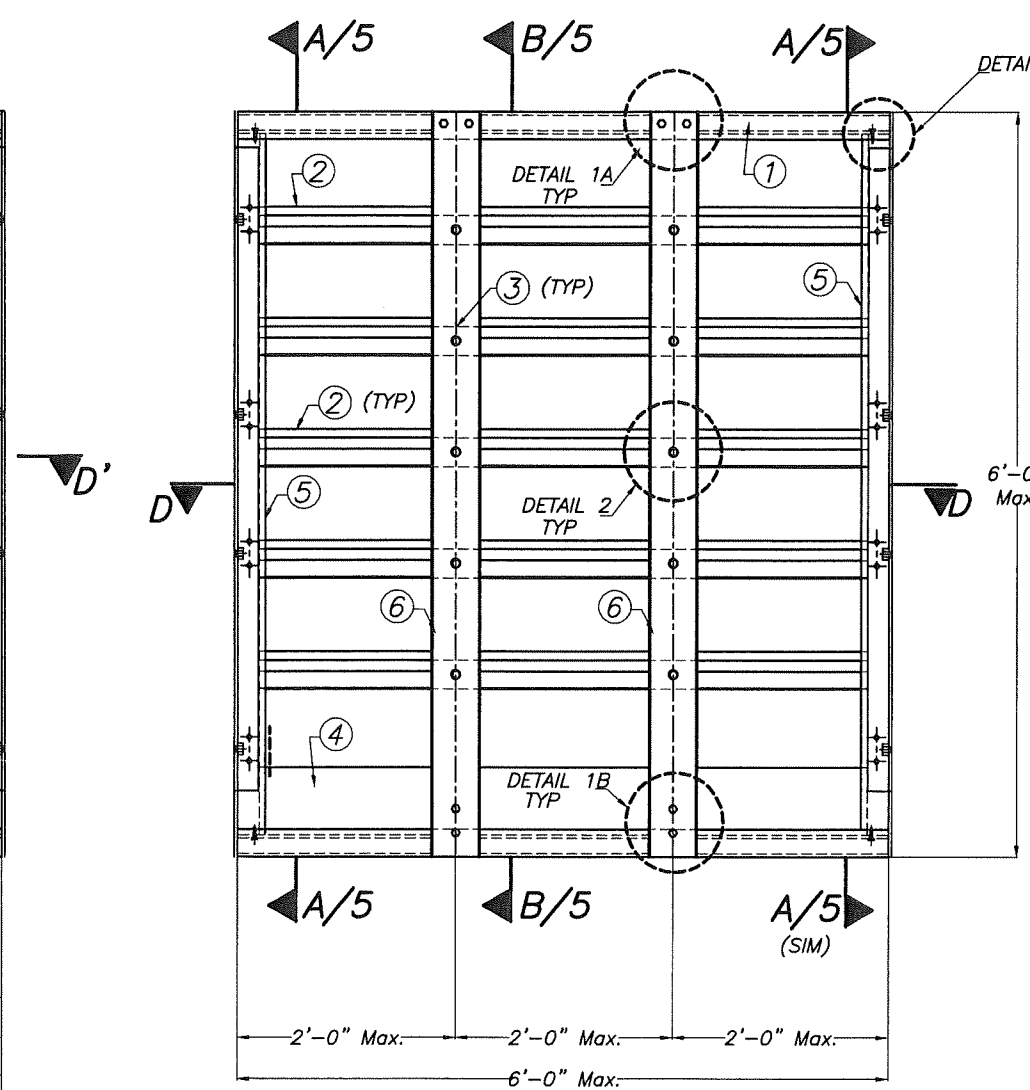
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILTECO inc.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone: (305)871-1530, Fax: (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
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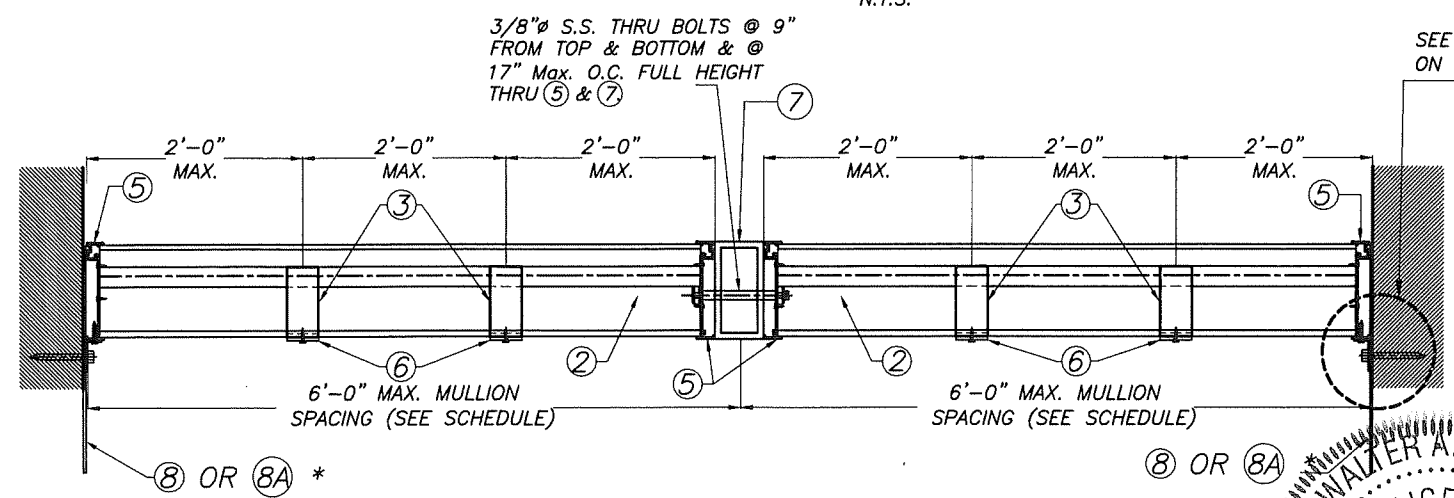
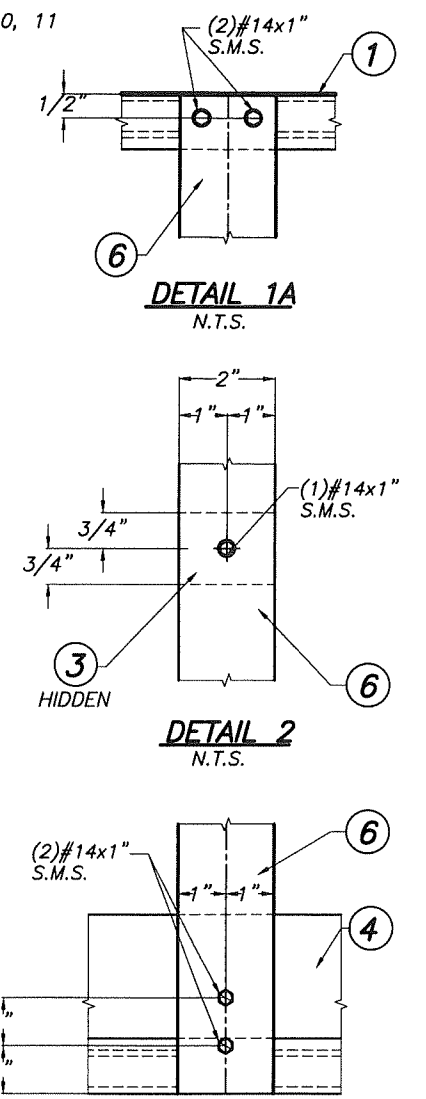
ALUMINUM LOUVER SYSTEM MODEL FL-D-6						M.P.
UNITED ENERTECH HOLDINGS, LLC						DRAWN BY
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159 GENCO DRIVE, HARTFORD, AL 36344						DATE
PHONE: (423)698-7715 FAX: (423)698-6629						20-207
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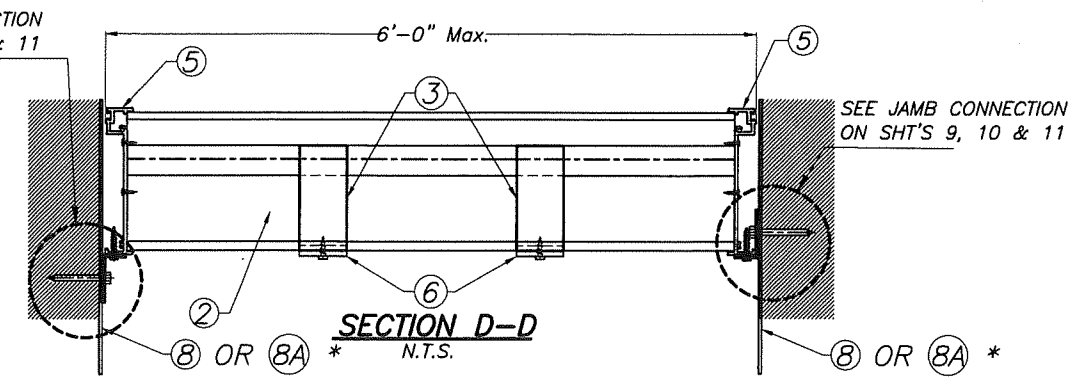
MULTIPLE UNITS HORIZONTALLY EXPANDED (INTERIOR ELEVATION)
N.T.S.



SINGLE UNIT (INTERIOR ELEVATION)
N.T.S.



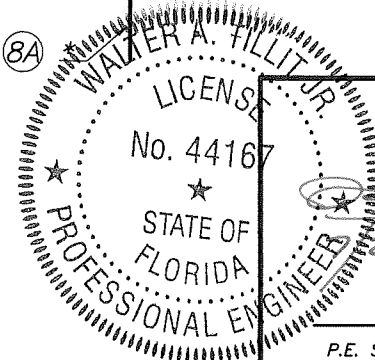
SECTION D-D'
N.T.S.



SECTION D-D
N.T.S.

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as complying with the Florida Building Code
NOA-No. 20-0901.02
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By *[Signature]*
Miami-Dade Product Control

* (8) OR (8A) ARE OPTIONAL



P.E. SEAL/SIGNATURE/DATE

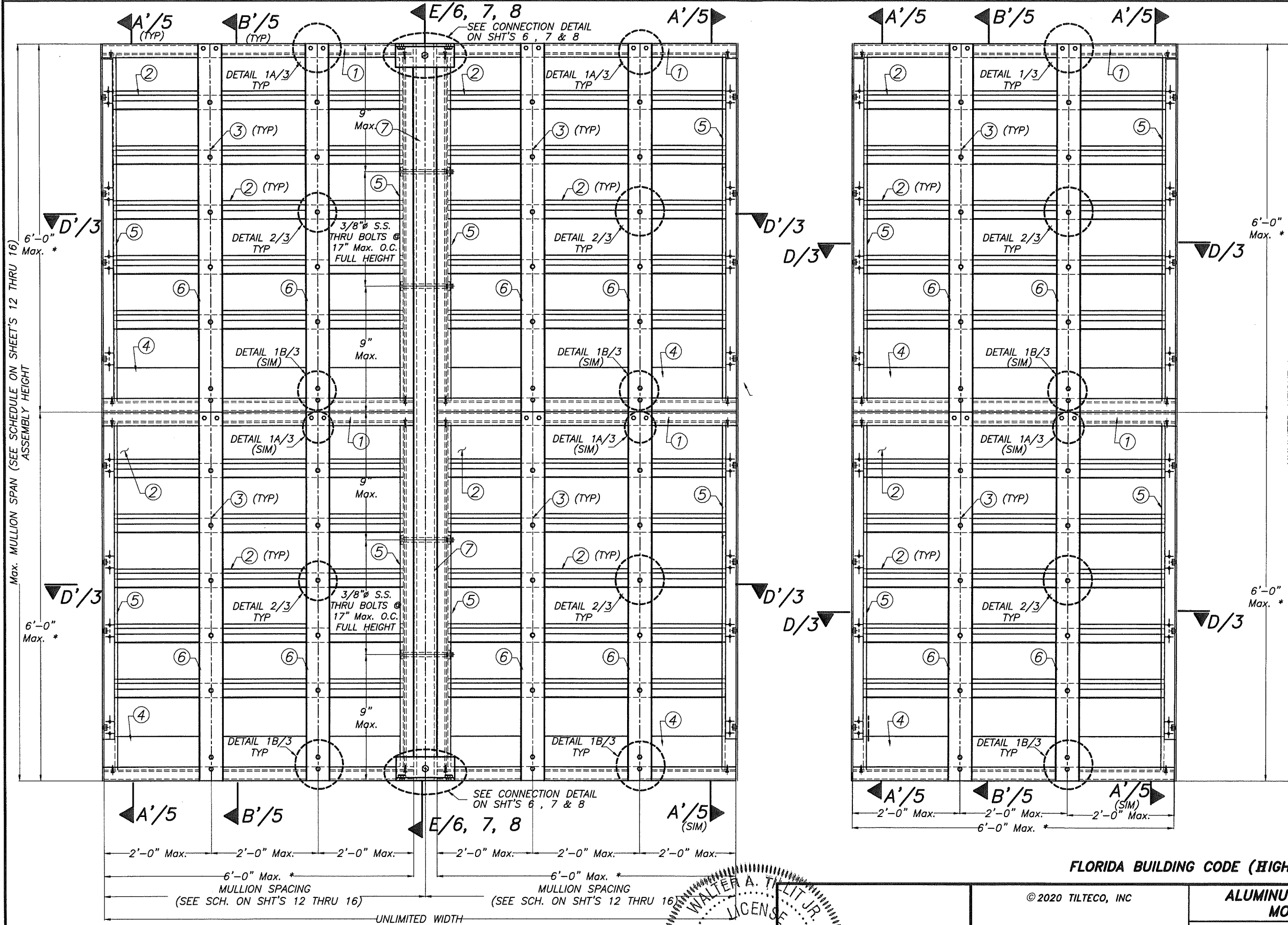
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

© 2020 TILTECO, INC
TILTECO inc.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530. Fax : (305)871-1531
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UNITED ENERTECH HOLDINGS, LLC
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159 GENCO DRIVE HARTFORD, AL 36344
PHONE: (423)698-7715 FAX: (423)698-6629

M.P. DRAWN BY
7/21/2020 DATE
20-207 DRAWING No
SHEET 3 OF 16

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-127	7/21/2020	3	-	-
2	-	-	4	-	-



* NUMBER OF LOUVER PANEL UNITS NEEDED TO ACHIEVE THE OPENING HEIGHT AND WIDTH MAY VARY HOWEVER MAXIMUM UNIT HEIGHT AND WIDTH SHALL NO EXCEED 6'-0".

PRODUCT REVISED
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 NOA-No. 20-0901.02
 Expiration Date 01/17/2026
 By *[Signature]*
 Miami-Dade Product Control

SINGLE UNIT
(INTERIOR ELEVATION)
 N.T.S.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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

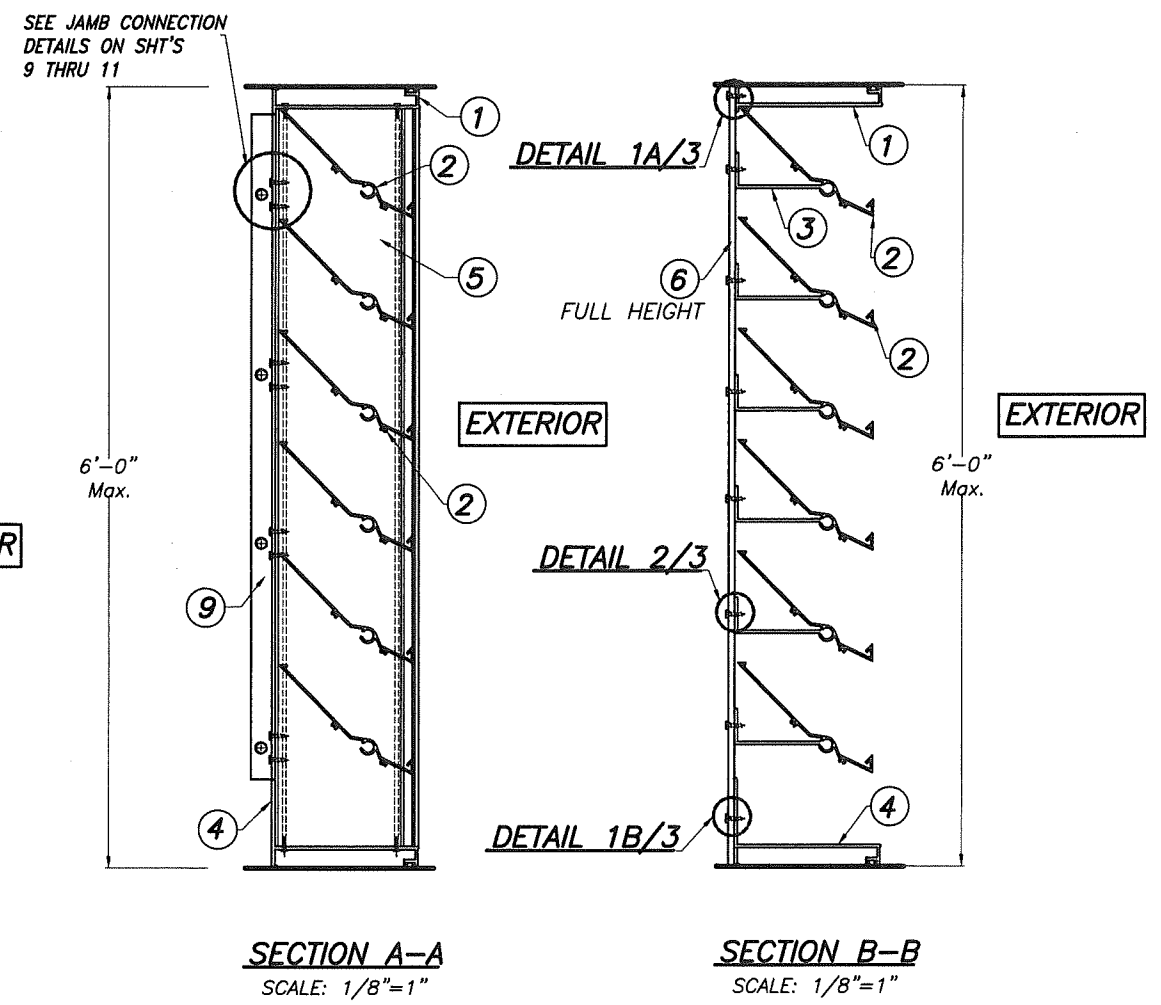
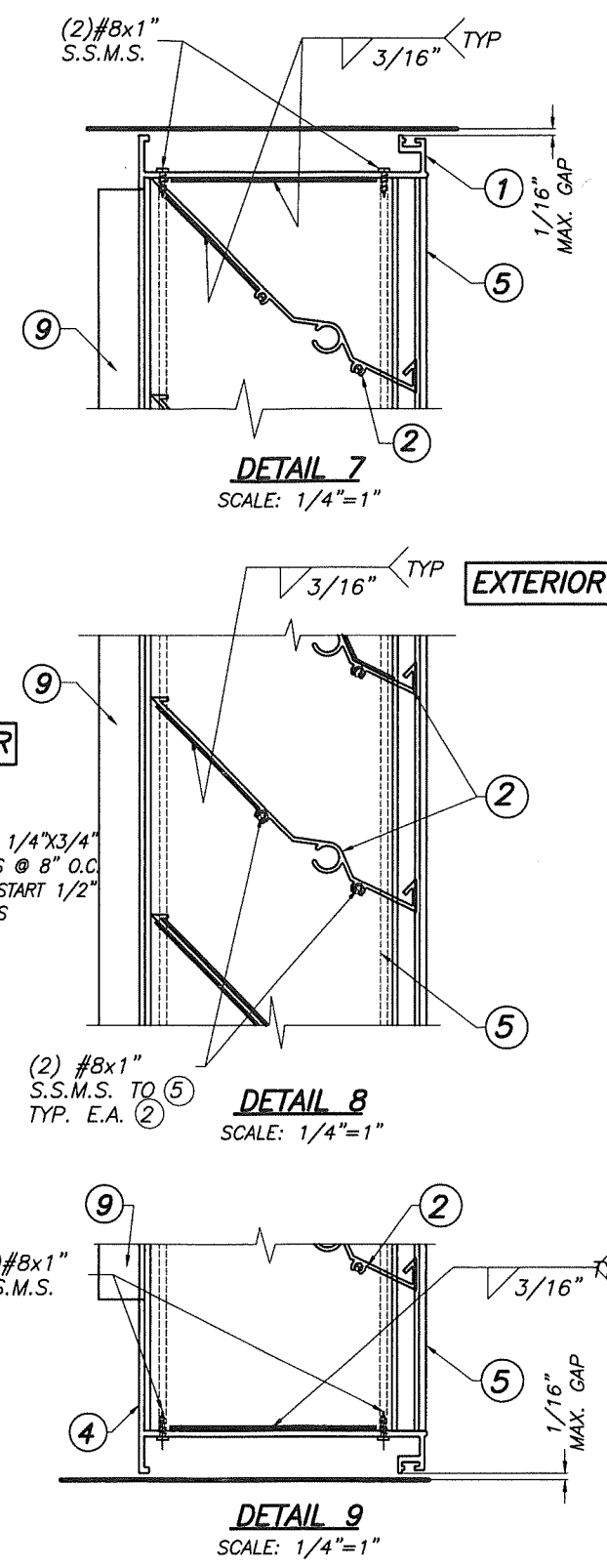
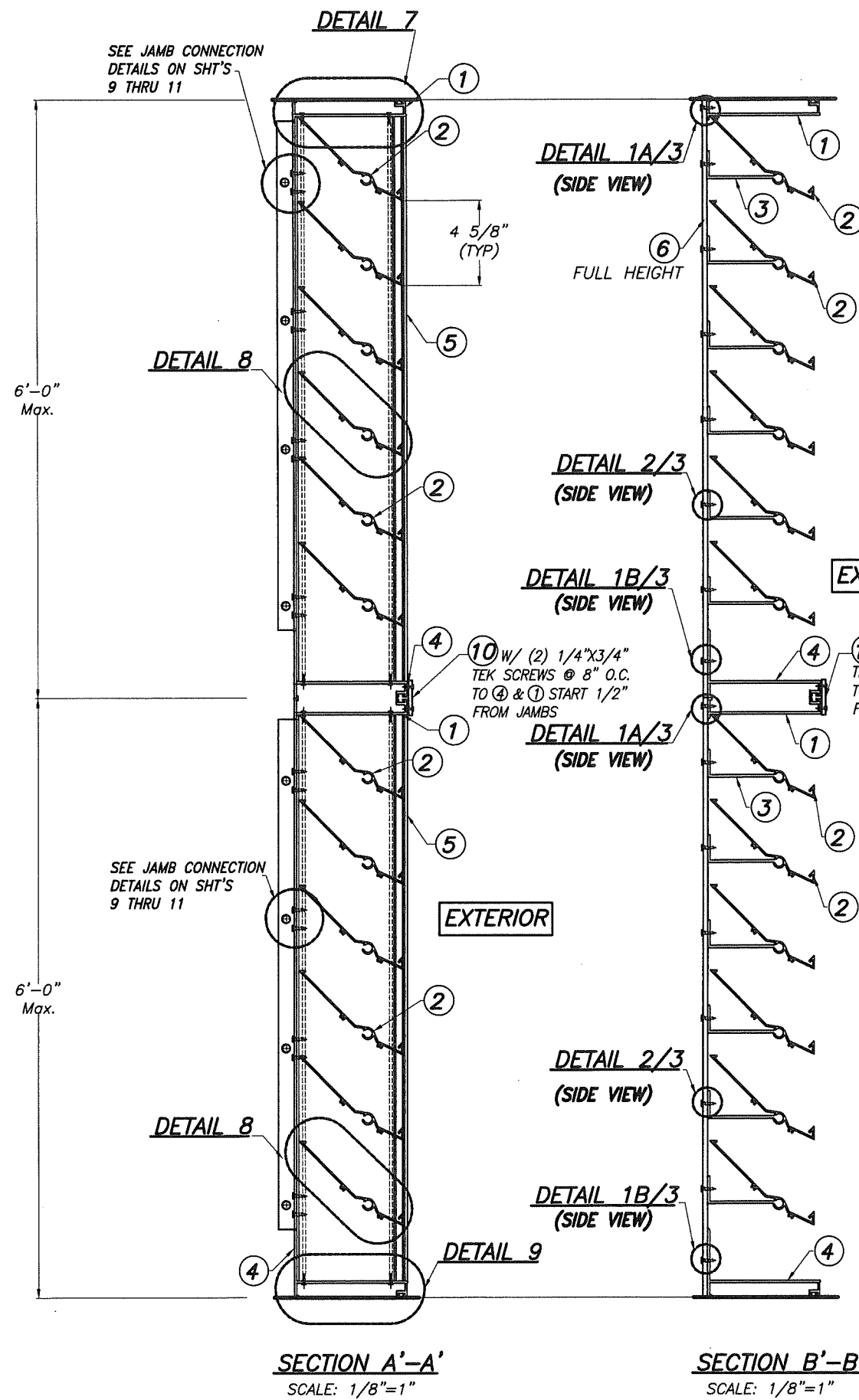
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 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
 Phone : (305)871-1530. Fax : (305)871-1531
 e-mail: tilteco@aol.com
 CA-0006719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167

ALUMINUM LOUVER SYSTEM
MODEL FL-D-6
UNITED ENERTECH HOLDINGS, LLC
 3005 S. HICKORY STREET, 159 GENCO DRIVE
 CHATTANOOGA, TN, 37407 HARTFORD, AL 36344
 PHONE: (423)698-7715 FAX: (423)698-6629

M.P.
 DRAWN BY
 7/21/2020
 DATE
20-207
 DRAWING No
 SHEET 4 OF 16

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-127	7/21/2020	3	-	-
2	-	-	4	-	-

MULTIPLE UNITS HORIZONTALLY & VERTICALLY
EXPANDED (INTERIOR ELEVATION)
 N.T.S.



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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

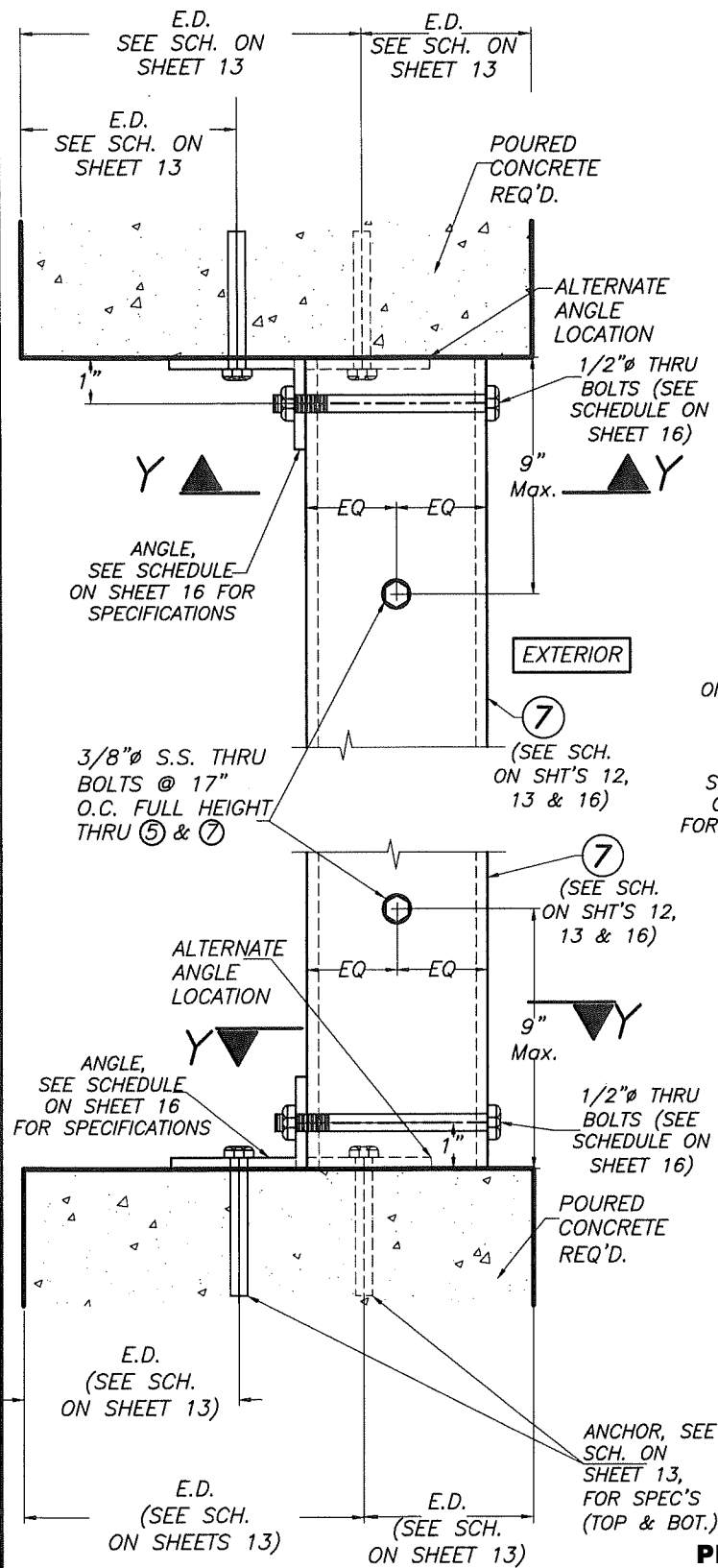
WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF
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 PROFESSIONAL ENGINEER
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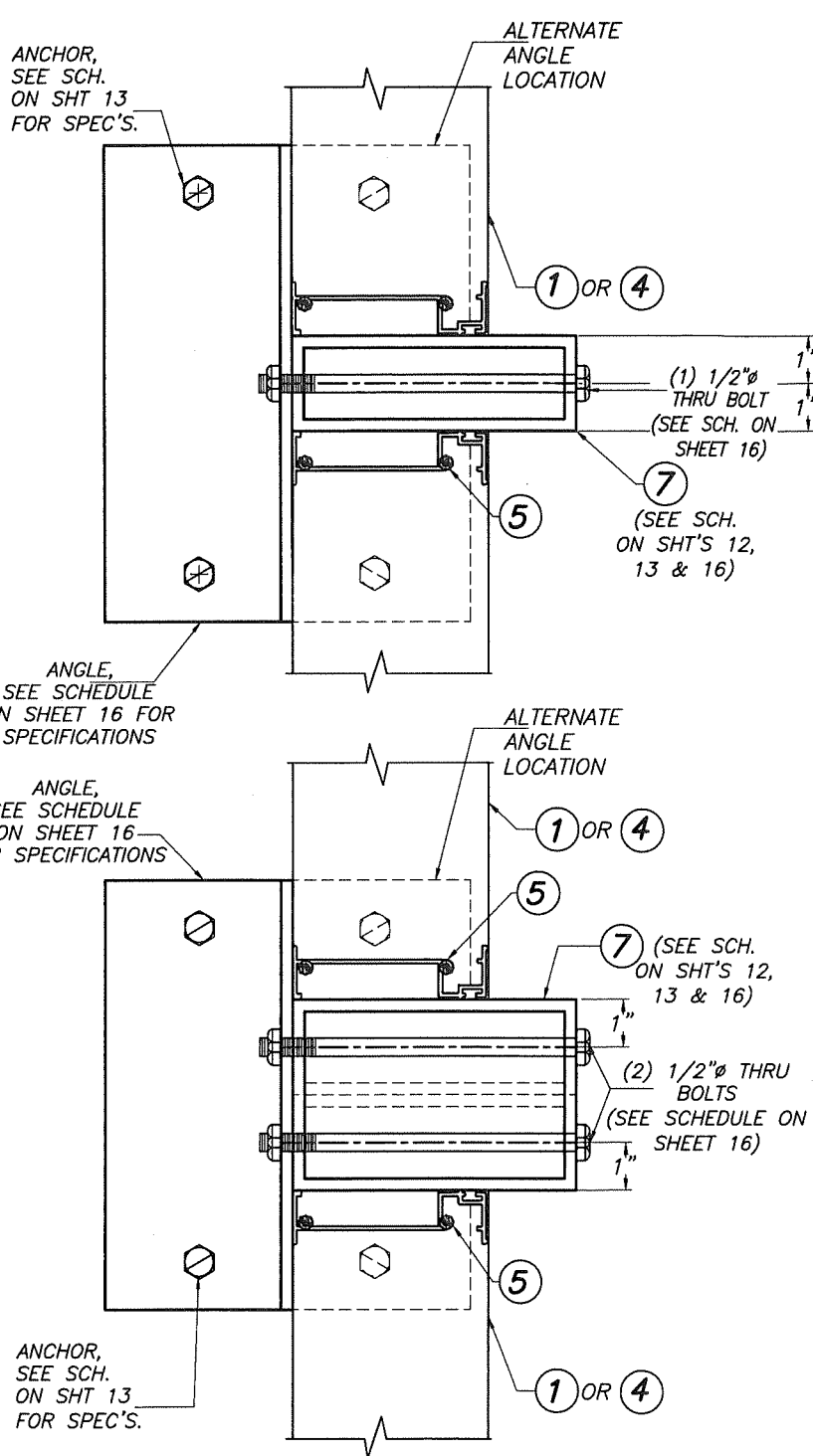
**ALUMINUM LOUVER SYSTEM
 MODEL FL-D-6**
UNITED ENERTECH HOLDINGS, LLC
 3005 S. HICKORY STREET, 159 GENCO DRIVE
 CHATTANOOGA, TN, 37407 HARTFORD, AL 36344
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20-207
 DRAWING No
 SHEET 5 OF 16

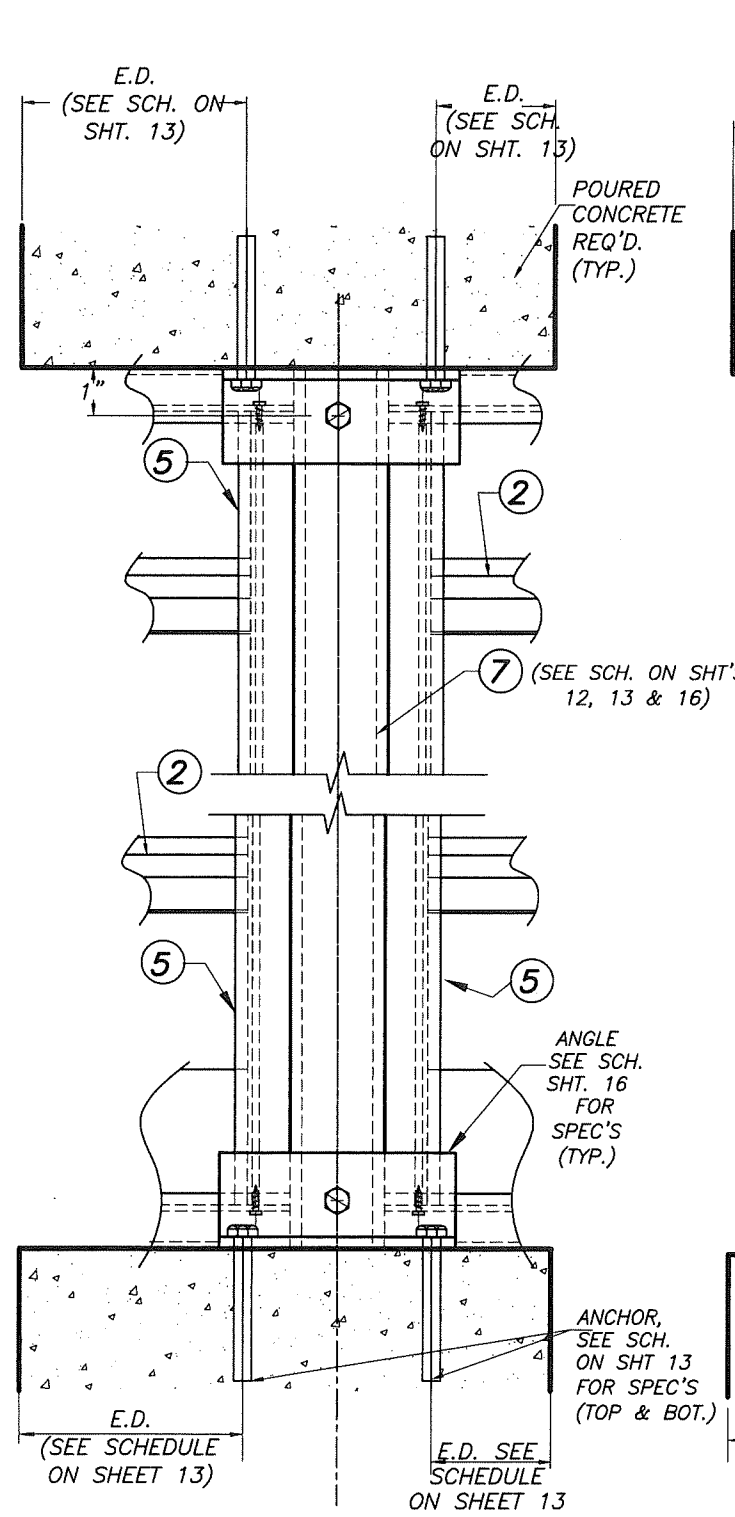
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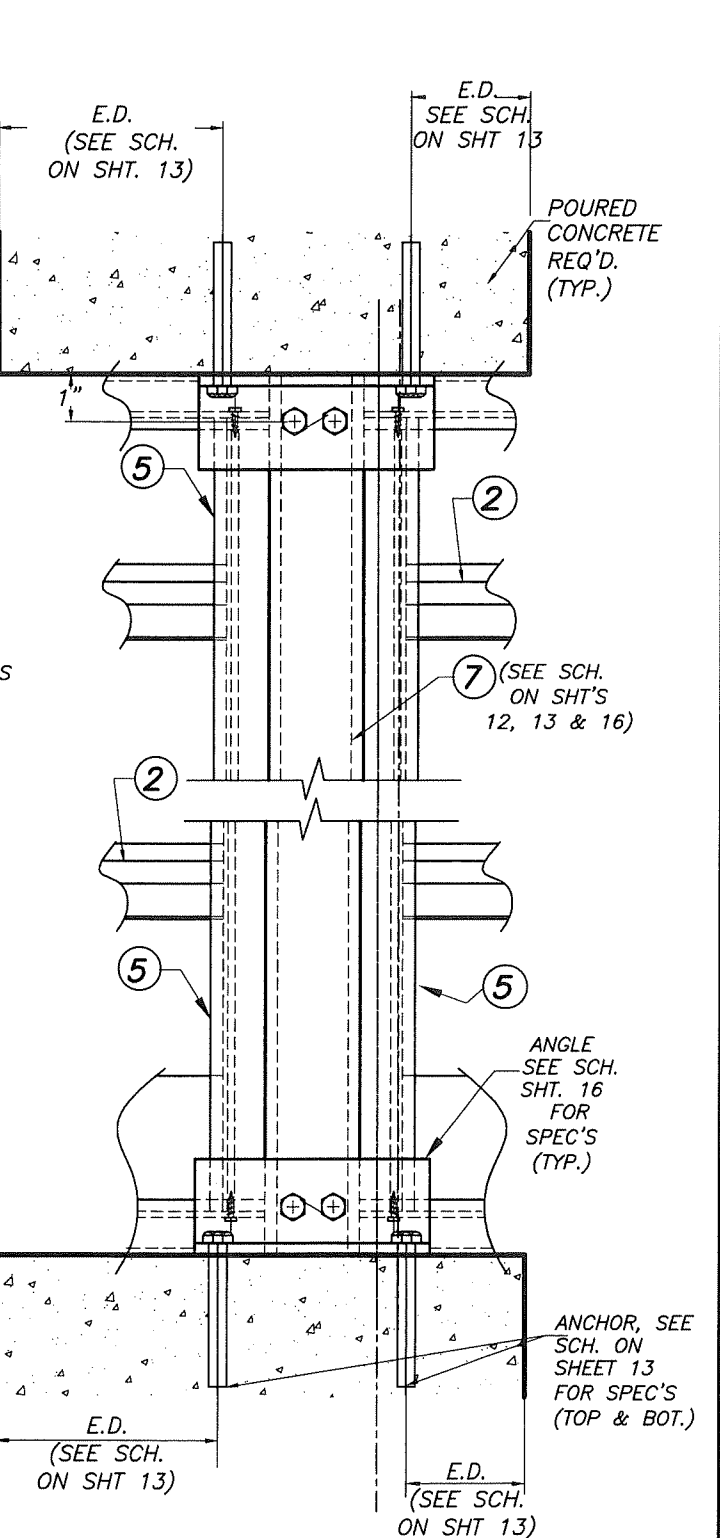
SECTION E-E
SCALE: 1/4"=1"



2"x4"xVARIESx0'-8" ANGLE
SECTION Y-Y
SCALE: 1/4"=1"



FRONT ELEVATION



FRONT ELEVATION

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Miami-Dade Product Control

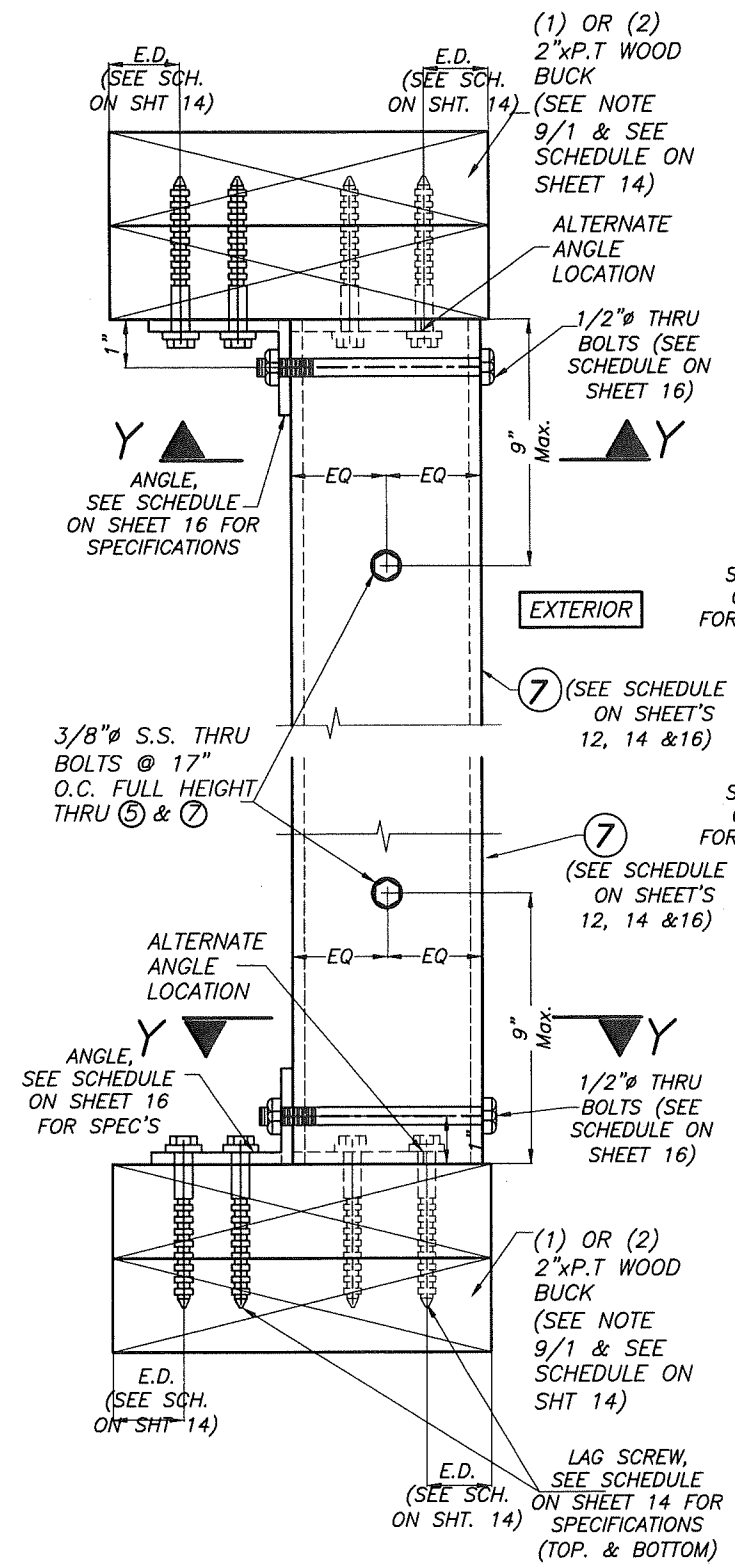
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PROFESSIONAL ENGINEER
[Signature]
SEAL/SIGNATURE/DATE

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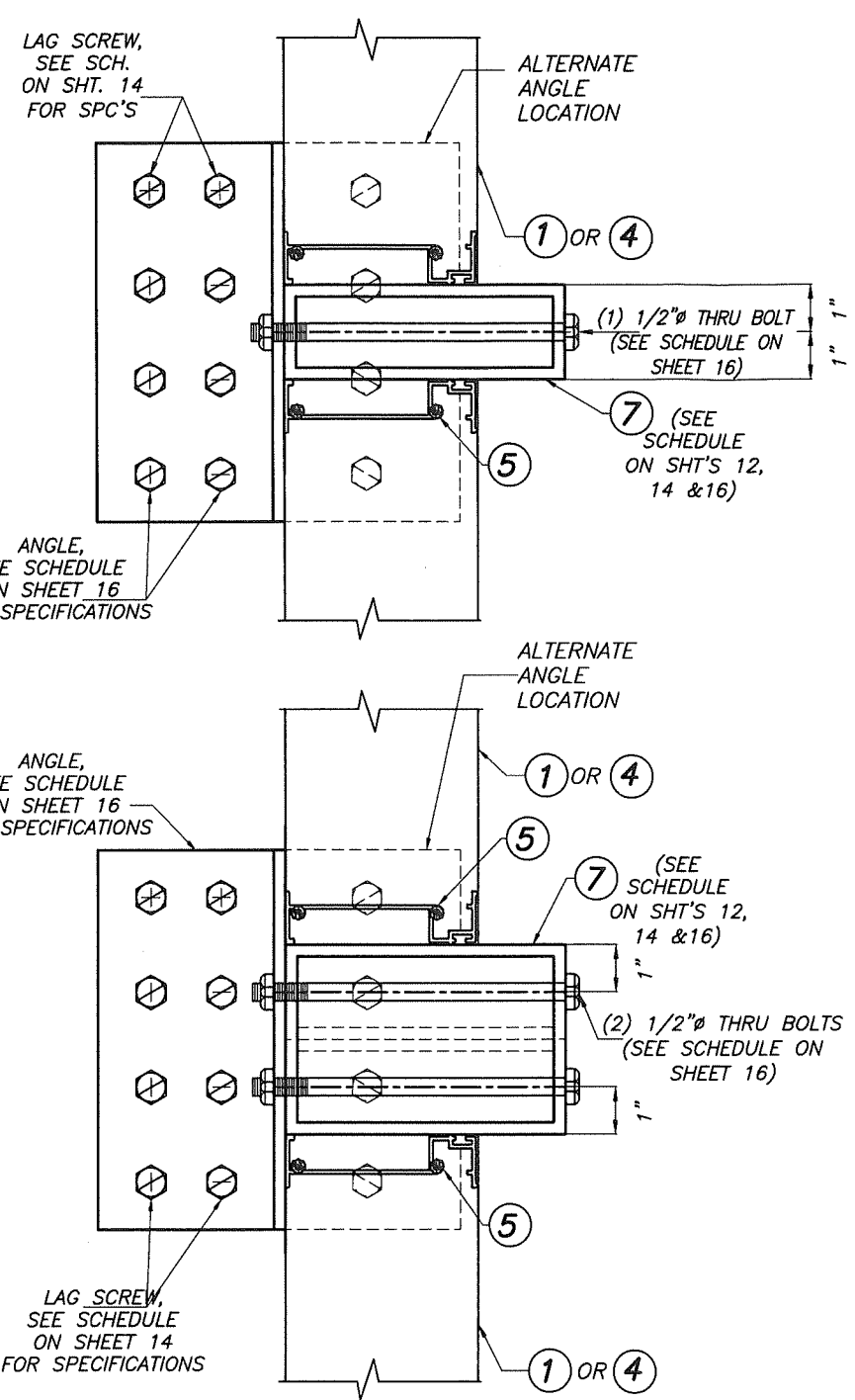
ALUMINUM LOUVER SYSTEM
MODEL FL-D-6
UNITED ENERTECH HOLDINGS, LLC
3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407
159 GENCO DRIVE, HARTFORD, AL 36344
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20-207
DRAWING No
SHEET 6 OF 16

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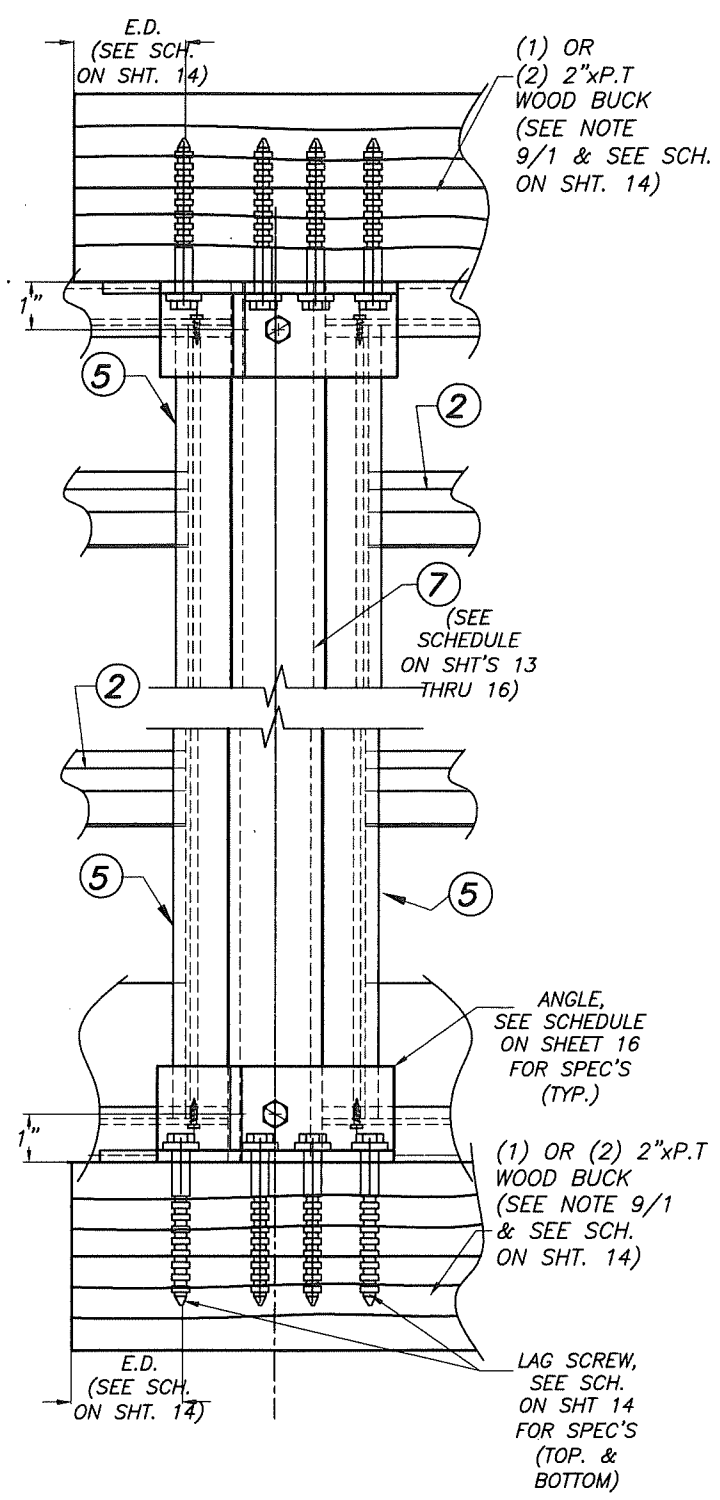
MULLION INSTALLATION INTO POURED CONCRETE



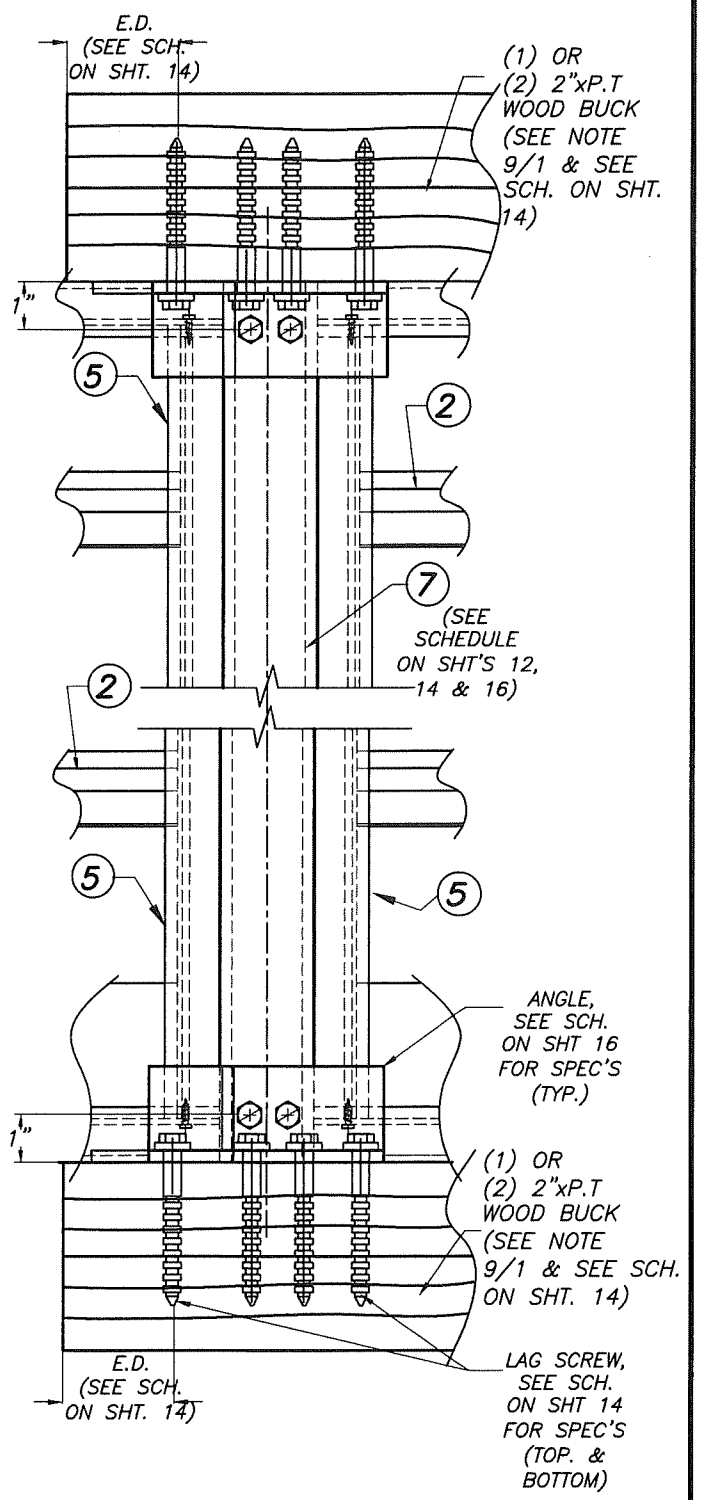
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SCALE: 1/4"=1"



2"x4"xVARIESx0'-8" ANGLE
SECTION Y-Y
SCALE: 1/4"=1"



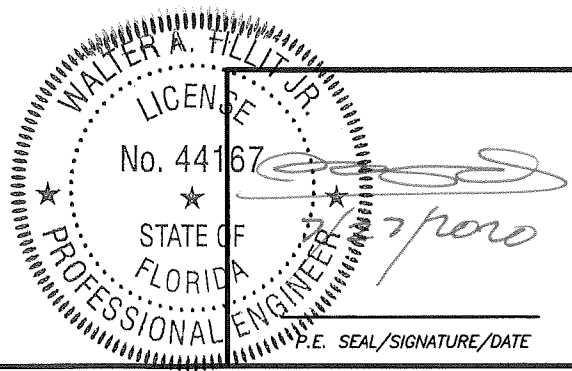
FRONT ELEVATION



FRONT ELEVATION

PRODUCT REVISED
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MULLION INSTALLATION INTO WOOD



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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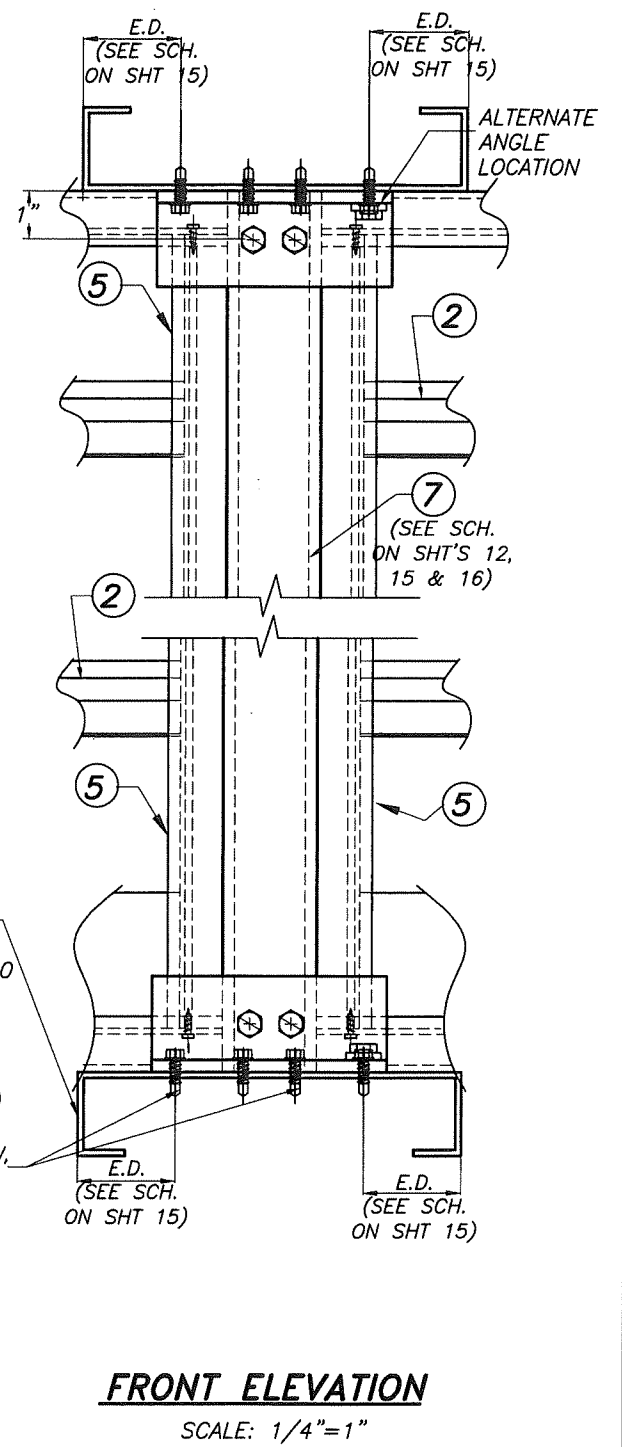
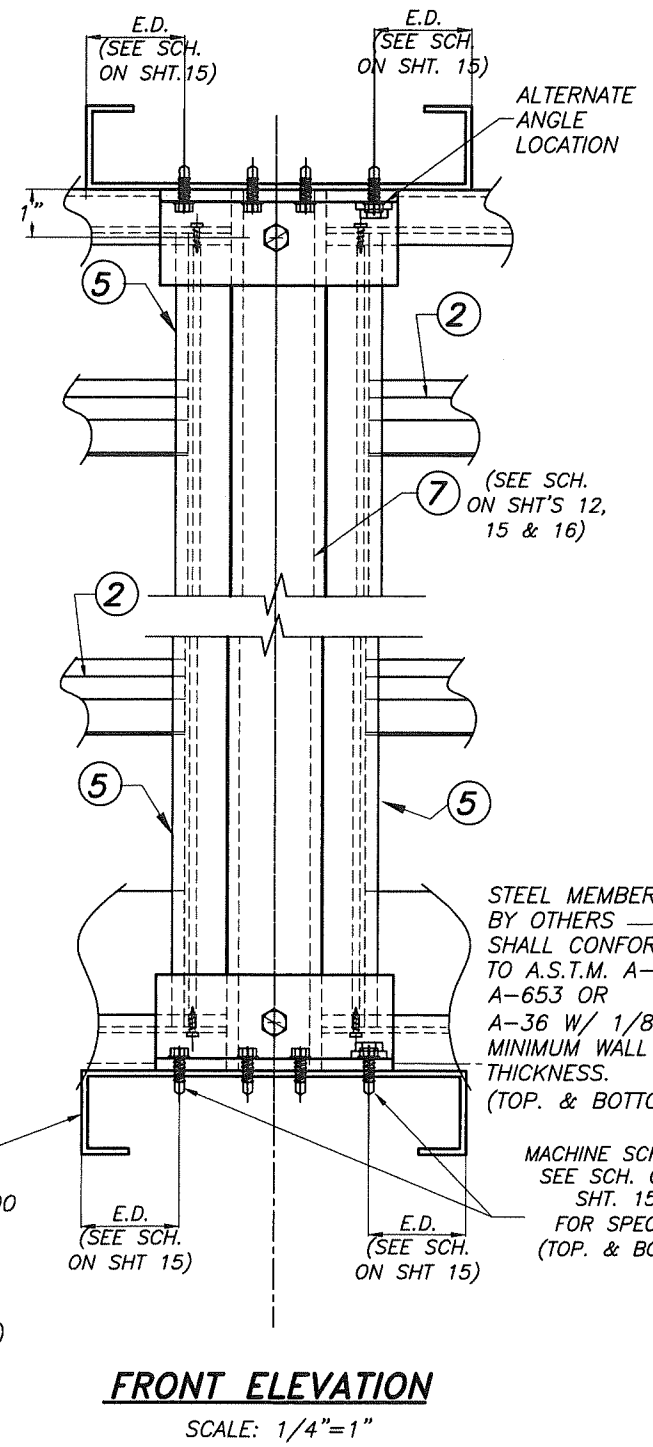
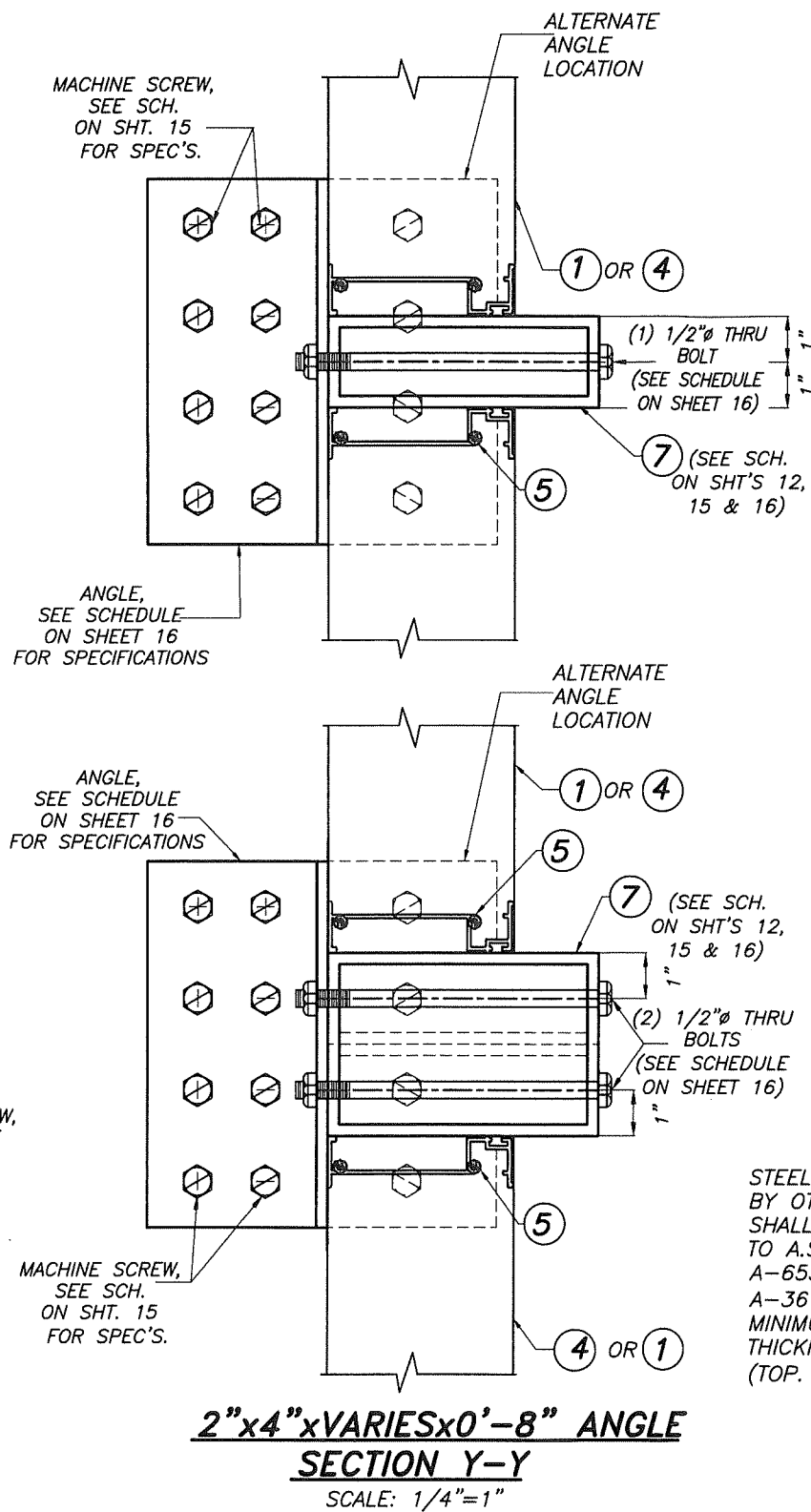
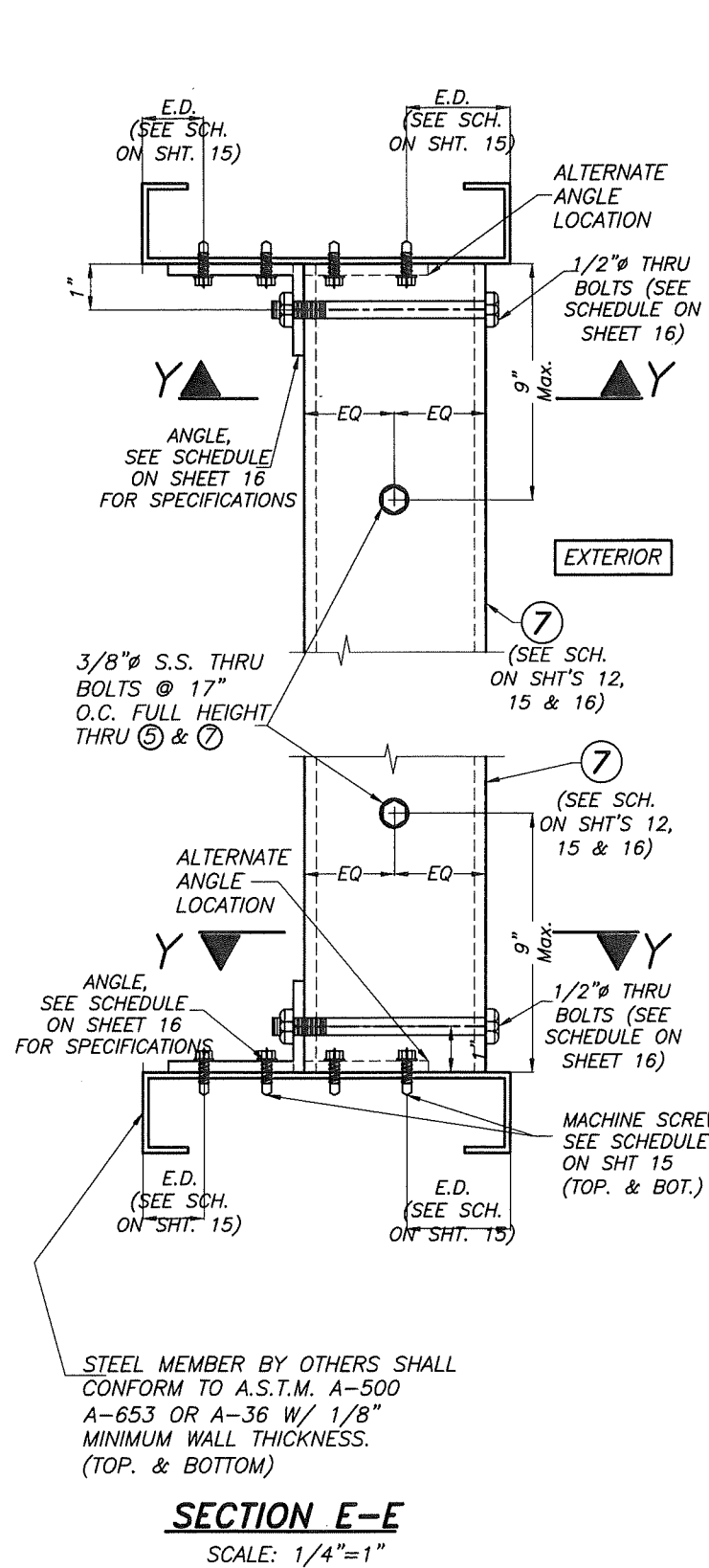
ALUMINUM LOUVER SYSTEM
MODEL FL-D-6

UNITED ENERTECH HOLDINGS, LLC

3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407
159 GENCO DRIVE, HARTFORD, AL 36344
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20-207	DRAWING No
SHEET 7 OF 16	

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-



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MULLION INSTALLATION INTO 1/8" THICK MIN. STEEL

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

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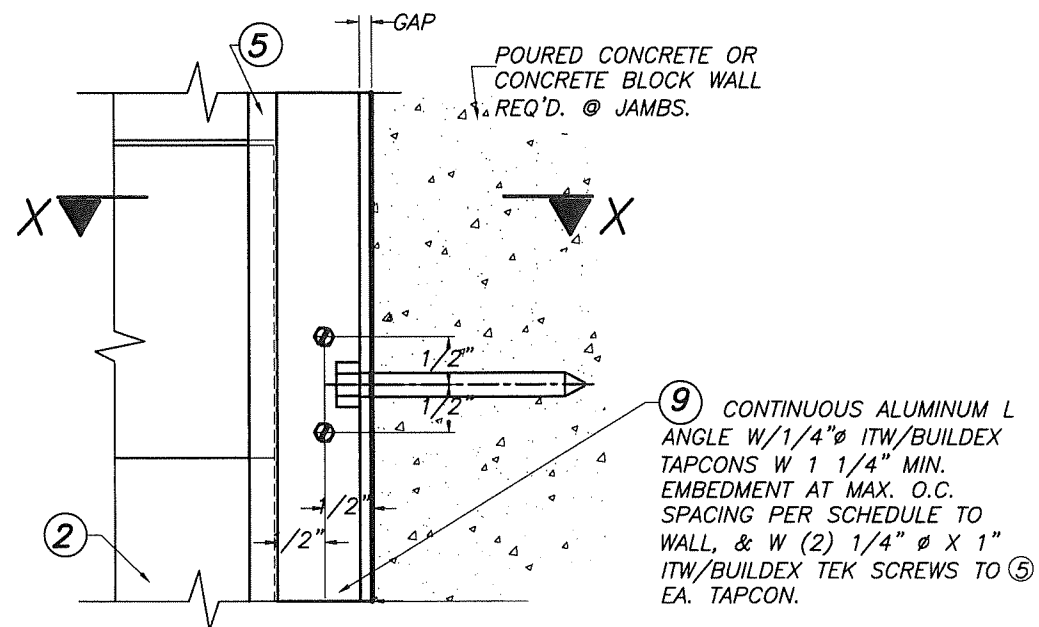
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WALTER A. TILLIT Jr. P.E.
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ALUMINUM LOUVER SYSTEM MODEL FL-D-6

UNITED ENERTECH HOLDINGS, LLC
3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407
159 GENCO DRIVE, HARTFORD, AL 36344
PHONE: (423)698-7715 FAX: (423)698-6629

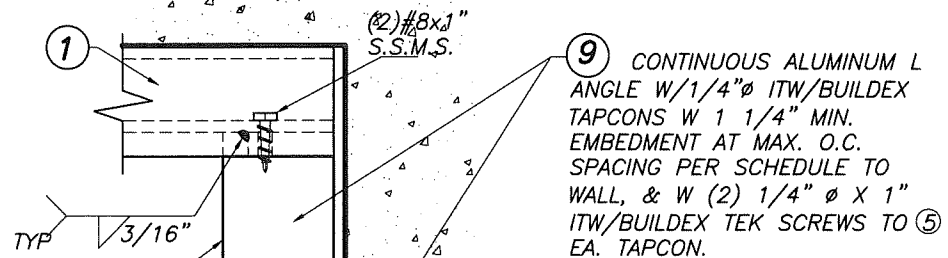
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7/21/2020 DATE
20-207 DRAWING No
SHEET 8 OF 16



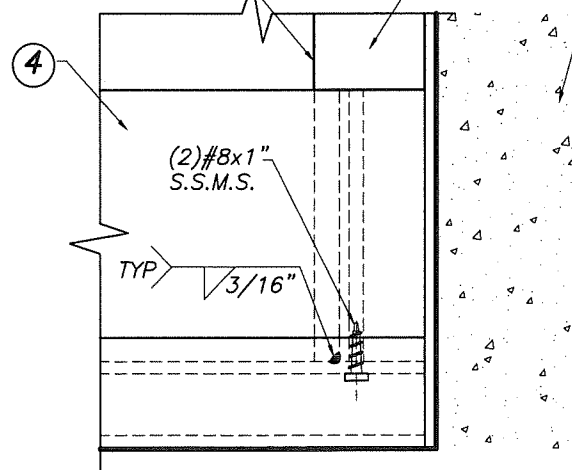
DETAIL 3

SCALE: 1/2"=1"



DETAIL 5

SCALE: 1/2"=1"



DETAIL 6

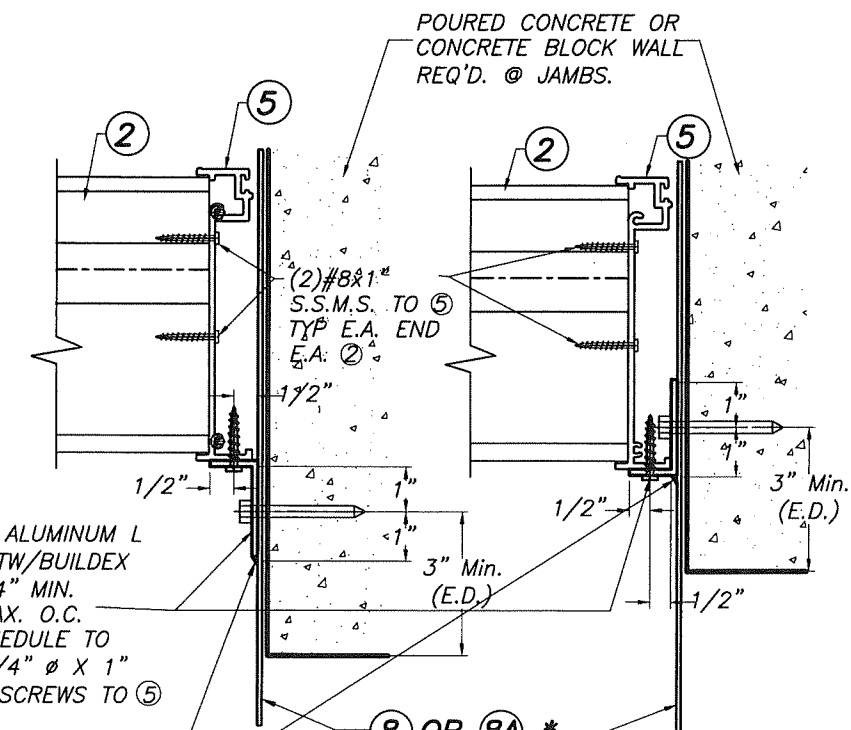
SCALE: 1/2"=1"

JAMB INSTALLATION INTO POURED CONCRETE OR CONCRETE BLOCK.

MAXIMUM TAPCON SPACING AT JAMBS*

A.S.D. DESIGN PRESSURE RATING (psf)	MAX. O.C. SPACING	
	CONCRETE	BLOCK
UP TO 150.0	7" O.C.	3" O.C.

* START FIRST TAPCON AT 5" FROM TOP & BOTTOM



ALTERNATE 1 ALTERNATE 2

SECTION X-X

SCALE: 1/4"=1"

* 8 OR 8A ARE OPTIONAL

PRODUCT REVISED
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NOA-No. 20-0901.02
Expiration Date 01/17/2026
By *[Signature]*
Miami-Dade Product Control

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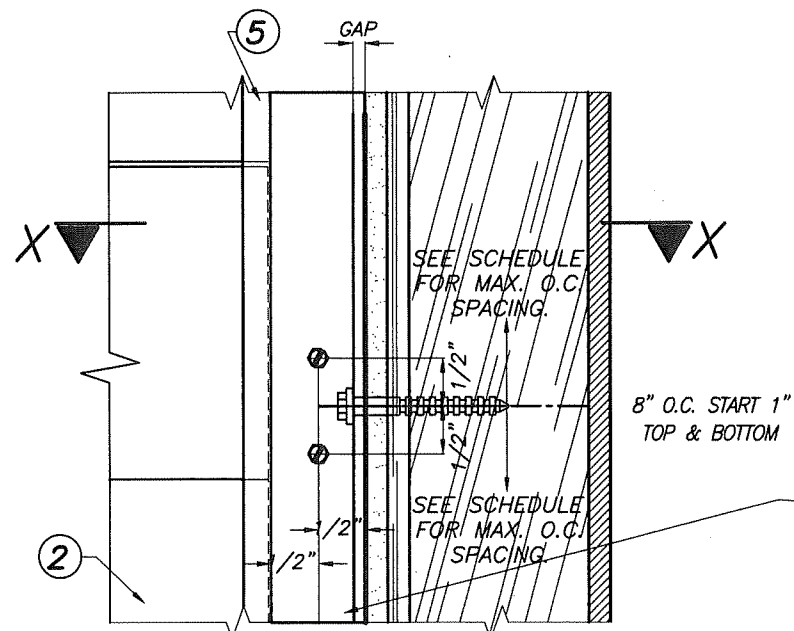
WALTER A. TILLIT JR.
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
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WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

ALUMINUM LOUVER SYSTEM MODEL FL-D-6
UNITED ENERTECH HOLDINGS, LLC
3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407
159 GENCO DRIVE, HARTFORD, AL 36344
PHONE: (423)698-7715 FAX: (423)698-6629

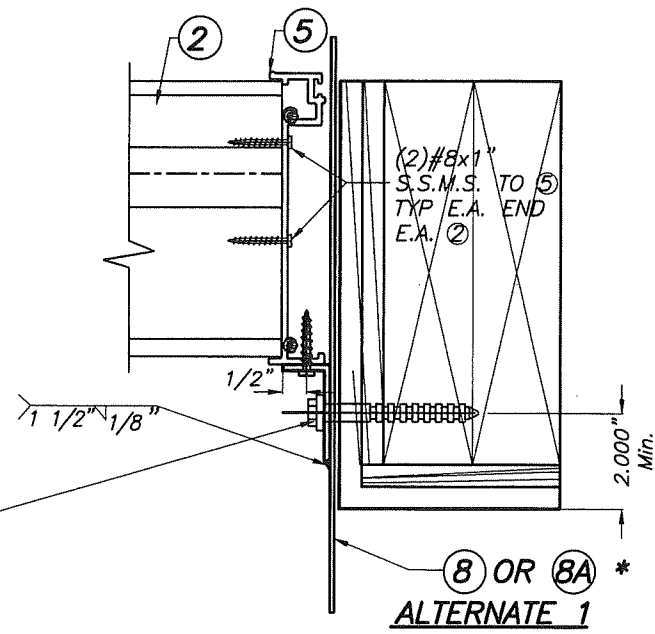
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7/21/2020 DATE
20-207 DRAWING No
SHEET 9 OF 16

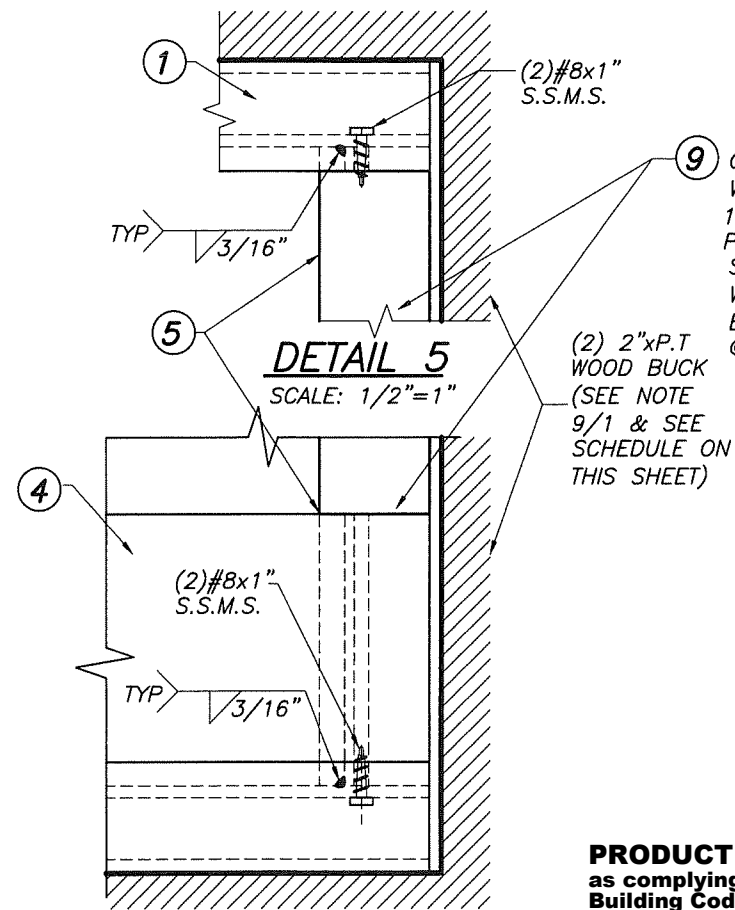


DETAIL 3
SCALE: 1/2"=1"

9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Ø LAG SCREW W/ 1 1/2" Min. THREADED PENETRATION @ Max. O.C. SPACING PER SCHEDULE TO WALL & W/ (2) 1/4"Øx1" (ITW BUILDEX) TEK SCREWS. TO 5 @ EA. LAG SCREW.



ALTERNATE 1



DETAIL 5
SCALE: 1/2"=1"

DETAIL 6
SCALE: 1/2"=1"

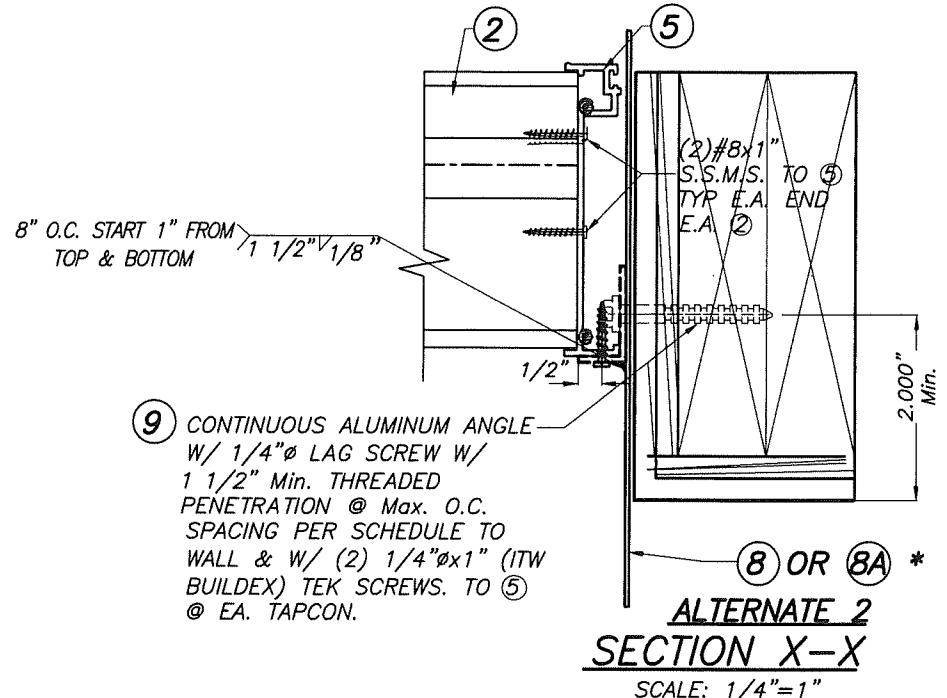
9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Ø LAG SCREW W/ 1 1/2" Min. THREADED PENETRATION @ Max. O.C. SPACING PER SCHEDULE TO WALL & W/ (2) 1/4"Øx1" (ITW BUILDEX) TEK SCREWS. TO 5 @ EA. LAG SCREW.

(2) 2"xP.T WOOD BUCK (SEE NOTE 9/1 & SEE SCHEDULE ON THIS SHEET)

MAXIMUM LAG SCREW SPACING AT JAMBS*

A.S.D. DESIGN PRESSURE RATING (psf)	MAX.O.C. SPACING
UP TO 50	8"
>50 TO 70	7"
>70 TO 90	5 1/2"
>90 TO 110	4 1/2"
>110 TO 130	3 1/2"
>130 TO 150	3"

* START FIRST LAG SCREW AT 5" FROM TOP & BOTTOM



ALTERNATE 2 SECTION X-X
SCALE: 1/4"=1"

* 8 OR 8A ARE OPTIONAL

PRODUCT REVISED
as complying with the Florida Building Code
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Expiration Date 01/17/2026
By *[Signature]*
Miami-Dade Product Control

JAMB INSTALLATION INTO WOOD

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
[Signature]
7/21/2020
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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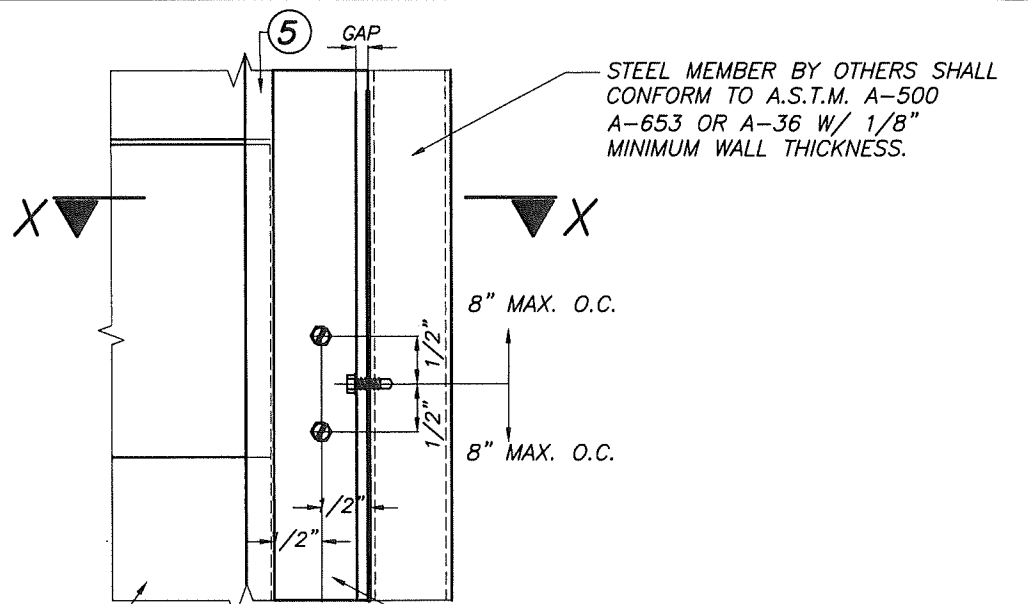
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TILLIT TESTING & ENGINEERING COMPANY
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WALTER A. TILLIT Jr. P.E.
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ALUMINUM LOUVER SYSTEM MODEL FL-D-6

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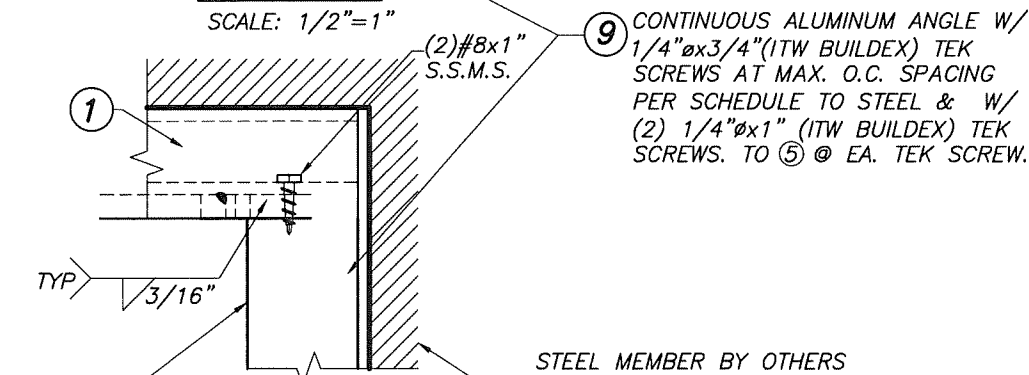
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20-207 DRAWING No
SHEET 10 OF 16



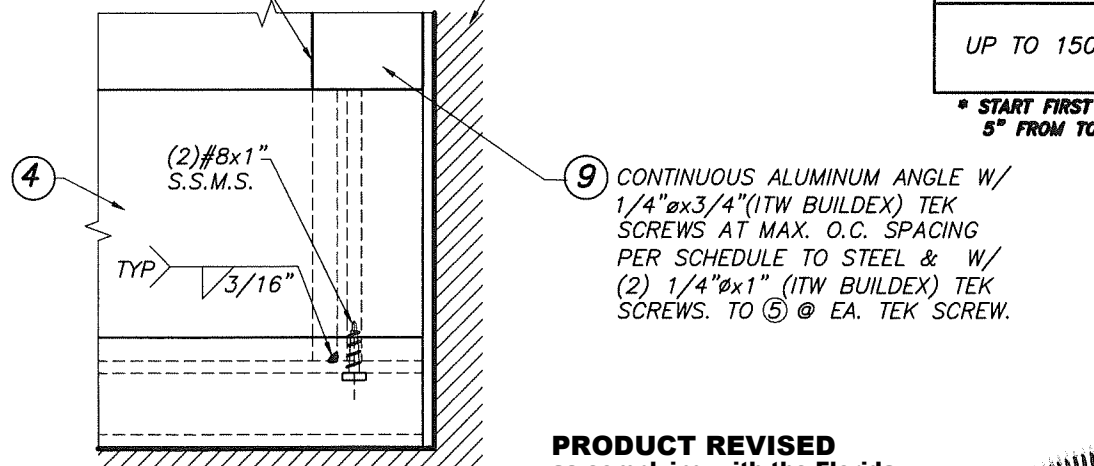
DETAIL 3

SCALE: 1/2"=1"



DETAIL 5

SCALE: 1/2"=1"



DETAIL 6

SCALE: 1/2"=1"

**JAMB INSTALLATION INTO
1/8" THICK MIN. STEEL**

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 1/8" MINIMUM WALL THICKNESS.

9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Øx3/4" (ITW BUILDEX) TEK SCREWS AT MAX. O.C. SPACING PER SCHEDULE TO STEEL & W/ (2) 1/4"Øx1" (ITW BUILDEX) TEK SCREWS. TO 5 @ EA. TEK SCREW.

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 1/8" MINIMUM WALL THICKNESS.

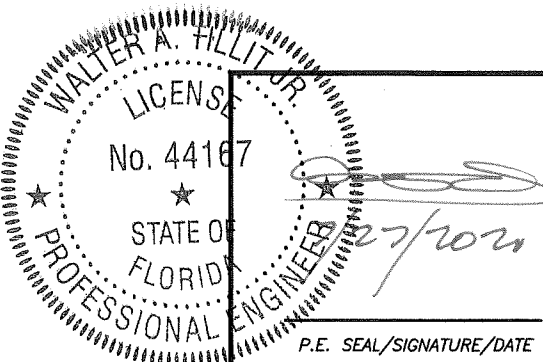
9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Øx3/4" (ITW BUILDEX) TEK SCREWS AT MAX. O.C. SPACING PER SCHEDULE TO STEEL & W/ (2) 1/4"Øx1" (ITW BUILDEX) TEK SCREWS. TO 5 @ EA. TEK SCREW.

MAXIMUM TEK SCREW SPACING AT JAMBS*

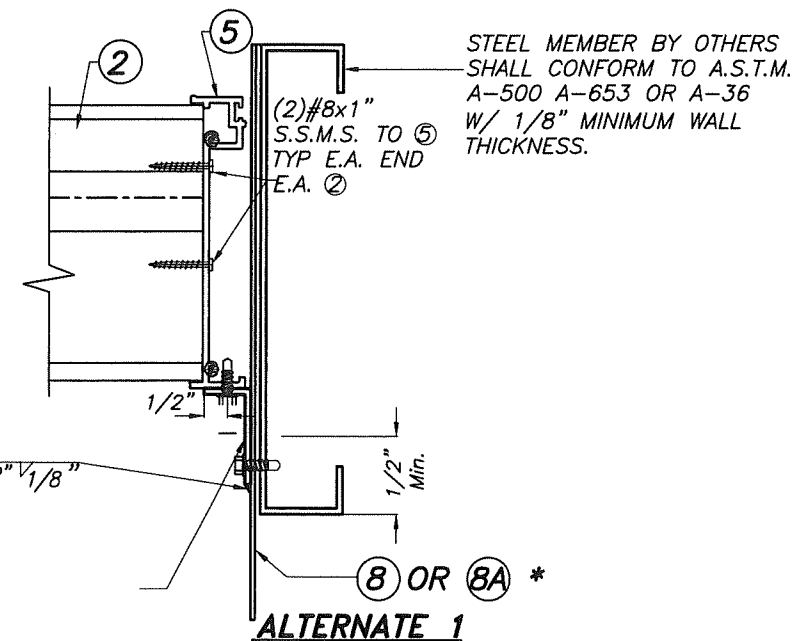
A.S.D. DESIGN PRESSURE RATING (psf)	MAX. O.C. SPACING
UP TO 150.0	8"

* START FIRST TEK SCREW AT 5" FROM TOP & BOTTOM

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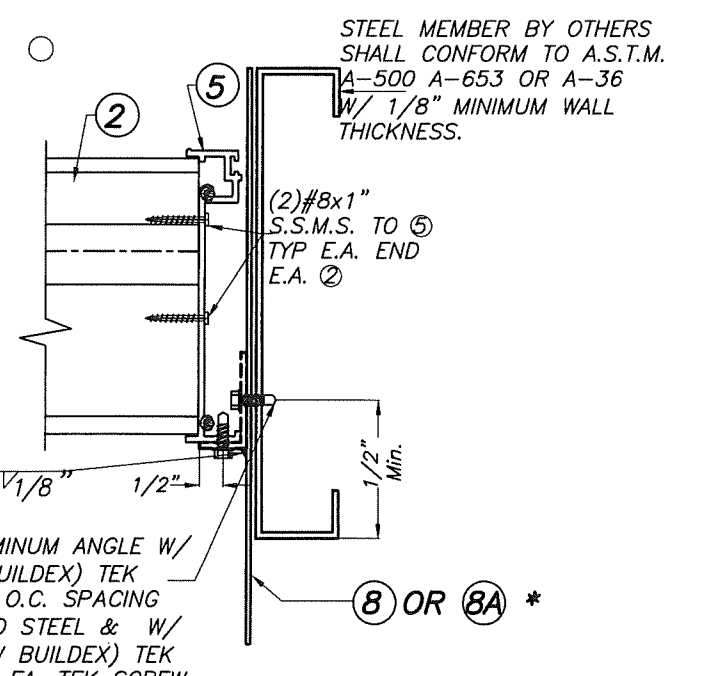
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ALTERNATE 1

8" O.C. START 1" FROM TOP & BOTTOM 1/2" V 1/8"

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 1/8" MINIMUM WALL THICKNESS.



ALTERNATE 2

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 1/8" MINIMUM WALL THICKNESS.

8" O.C. START 1" FROM TOP & BOTTOM 1/2" V 1/8"

9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Øx3/4" (ITW BUILDEX) TEK SCREWS AT MAX. O.C. SPACING PER SCHEDULE TO STEEL & W/ (2) 1/4"Øx1" (ITW BUILDEX) TEK SCREWS. TO 5 @ EA. TEK SCREW.

SECTION X-X

SCALE: 1/4"=1"

* 8 OR 8A ARE OPTIONAL

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)


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		3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407 159 GENCO DRIVE HARTFORD, AL 36344 PHONE: (423)698-7715 FAX: (423)698-6629		20-207 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-127	7/21/2020	3	-	-
2	-	-	4	-	-

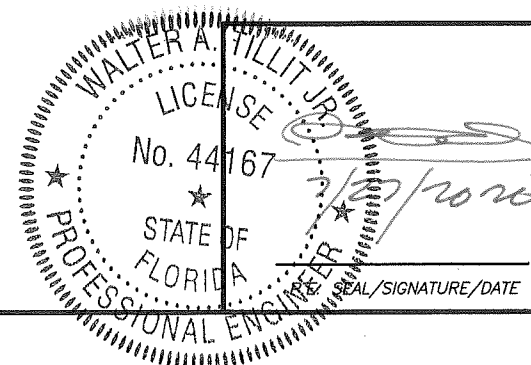
MAX. MULLION SPAN SCHEDULE FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING *

A.S.D. DESIGN PRESSURE RATING (psf)	MULLIONS												ASSEMBLY HEIGHT
	2"x6"x1/4"				4"x6"x1/4" OR (2) 2"x6"x1/4"				4"x8"x1/4"				
	MULLION SPACING				MULLION SPACING				MULLION SPACING				
	3'	4'	5'	6'	3'	4'	5'	6'	3'	4'	5'	6'	
30	10'-0"	10'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	
50	10'-0"	10'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	
70	10'-0"	10'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	11'-10"	12'-0"	12'-0"	12'-0"	12'-0"	
90	10'-0"	10'-0"	10'-0"	9'-5"	12'-0"	12'-0"	11'-7"	10'-11"	12'-0"	12'-0"	12'-0"	12'-0"	
100	10'-0"	10'-0"	9'-8"	9'-0"	12'-0"	12'-0"	11'-2"	10'-6"	12'-0"	12'-0"	12'-0"	12'-0"	
110	10'-0"	10'-0"	9'-4"	8'-7"	12'-0"	11'-8"	10'-10"	10'-2"	12'-0"	12'-0"	12'-0"	12'-0"	
120	10'-0"	9'-9"	9'-0"	8'-2"	12'-0"	11'-4"	10'-6"	9'-11"	12'-0"	12'-0"	12'-0"	12'-0"	
130	10'-0"	9'-6"	8'-7"	7'-10"	12'-0"	11'-0"	10'-3"	9'-8"	12'-0"	12'-0"	12'-0"	12'-0"	
140	10'-0"	9'-3"	8'-4"	7'-7"	11'-10"	10'-9"	10'-0"	9'-5"	12'-0"	12'-0"	12'-0"	11'-11"	
150	10'-0"	9'-0"	8'-0"	7'-4"	11'-7"	10'-6"	9'-9"	9'-2"	12'-0"	12'-0"	12'-0"	11'-6"	

* SEE ADDITIONAL LIMITATIONS FOR MAXIMUM MULLION SPAN (ASSEMBLY HEIGHT) ON SHEETS 13 THRU 16 FOR A MULLION CONNECTION TYPE. MAXIMUM FINAL MULLION SPAN (ASSEMBLY HEIGHT) SHALL BE THE MINIMUM VALUE BETWEEN THIS SCHEDULE AND ANY OTHER SCHEDULE GIVEN ON ABOVE MENTIONED SHEETS.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

PRODUCT REVISED
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NOA-No. 20-0901.02
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By 
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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**ALUMINUM LOUVER SYSTEM
MODEL FL-D-6**

UNITED ENERTECH HOLDINGS, LLC

3005 S. HICKORY STREET, 159 GENCO DRIVE
CHATTANOOGA, TN, 37407. HARTFORD, AL 36344
PHONE: (423)698-7715 FAX: (423)698-6629

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1	OLD 17-127	7/21/2020	3	-	-
2	-	-	4	-	-

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7/21/2020
DATE

20-207
DRAWING No

SHEET 12 OF 16

MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 1 CONNECTION*

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	11'-3"	
90	12'-0"	12'-0"	10'-6"	8'-9"	
100	12'-0"	12'-0"	9'-5"	7'-10"	
110	12'-0"	12'-0"	8'-7"	7'-2"	
120	12'-0"	12'-0"	7'-10"	6'-7"	
130	12'-0"	12'-0"	7'-3"	6'-1"	
140	12'-0"	8'-5"	6'-9"	5'-7"	
150	10'-6"	7'-10"	6'-3"	5'-3"	

TYPE 1 CONNECTION TO POURED CONCRETE:

2 - 1/2" Ø KWIK BOLT TZ (HILTI, INC.) W/ 4" MIN. EMBEDMENT & 8" MIN. MEMBER THICKNESS, W/ 3" MIN. E.D & 6" MIN. SPACING

MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 3 CONNECTION *

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	11'-11"	
90	12'-0"	12'-0"	11'-1"	9'-3"	
100	12'-0"	12'-0"	10'-0"	8'-4"	
110	12'-0"	11'-4"	9'-1"	7'-7"	
120	12'-0"	10'-5"	8'-4"	6'-11"	
130	12'-0"	9'-7"	7'-8"	6'-5"	
140	11'-11"	8'-11"	7'-2"	5'-11"	
150	11'-1"	8'-4"	6'-8"	5'-7"	

TYPE 3 CONNECTION TO POURED CONCRETE:

2 - 1/2" Ø KWIK BOLT TZ (HILTI, INC.) W/ 4" MIN. EMBEDMENT & 8" MIN. MEMBER THICKNESS W/ 4" MIN. E.D. & 6" MIN. SPACING

MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 2 CONNECTION *

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	12'-0"	
90	12'-0"	12'-0"	12'-0"	10'-0"	
100	12'-0"	12'-0"	10'-10"	9'-0"	
110	12'-0"	12'-0"	9'-10"	8'-2"	
120	12'-0"	11'-3"	9'-0"	7'-6"	
130	12'-0"	10'-5"	8'-4"	6'-11"	
140	12'-0"	9'-8"	7'-9"	6'-5"	
150	12'-0"	9'-0"	7'-2"	6'-0"	

TYPE 2 CONNECTION TO POURED CONCRETE:

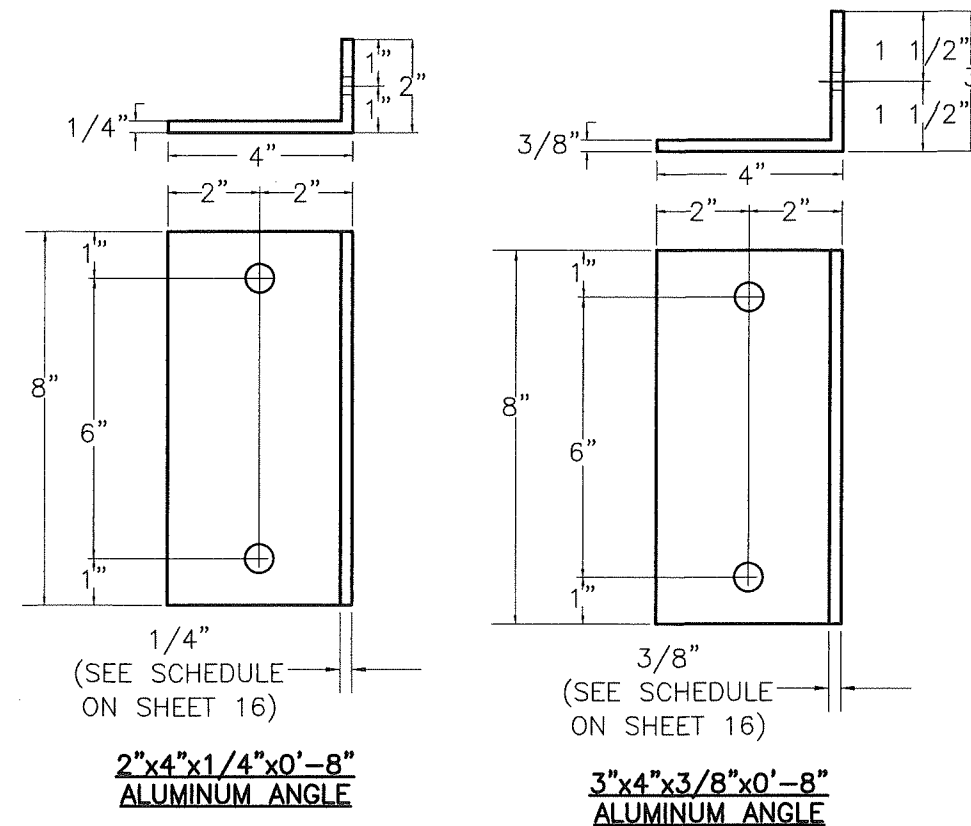
2 - 5/8" Ø KWIK BOLT TZ (HILTI, INC.) W/ 5" MIN. EMBEDMENT & 8" MIN. MEMBER THICKNESS W/ 3" MIN. E.D & 6" MIN. SPACING

MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 4 CONNECTION *

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	12'-0"	
90	12'-0"	12'-0"	12'-0"	10'-0"	
100	12'-0"	12'-0"	10'-10"	9'-0"	
110	12'-0"	12'-0"	9'-10"	8'-2"	
120	12'-0"	11'-3"	9'-0"	7'-6"	
130	12'-0"	10'-5"	8'-4"	6'-11"	
140	12'-0"	9'-8"	7'-9"	6'-5"	
150	12'-0"	9'-0"	7'-2"	6'-0"	

TYPE 4 CONNECTION TO POURED CONCRETE:

2 - 1/2" Ø KWIK BOLT TZ (HILTI, INC.) W/ 4" MIN. EMBEDMENT & 8" MIN. MEMBER THICKNESS W/ 6" MIN. E.D. & 6" MIN. SPACING



2"x4"x1/4"x0'-8" ALUMINUM ANGLE

3"x4"x3/8"x0'-8" ALUMINUM ANGLE

SCHEDULE FOR MULLION CONNECTION TO POURED CONCRETE (Min. f'c = 3 ksi)

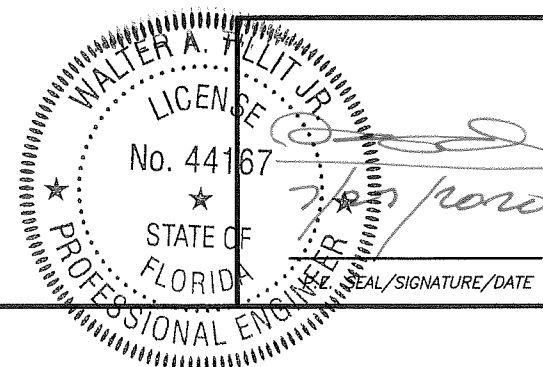
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*** NOTES:**

(1) SEE SHEET 12 & 16 FOR ADDITIONAL MAXIMUM MULLION SPAN LIMITATIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND MAXIMUM SPACING. MAXIMUM MULLION SPAN SHALL BE THE MINIMUM BETWEEN SCHEDULES ON SHEETS 12, 16 AND THIS SHEET FOR A CONNECTION TYPE.

(2) SEE SHEET 16 FOR ANGLE SCHEDULE INDICATING MAXIMUM ALLOWABLE A.S.D. DESIGN PRESSURE RATING, MULLION SPACING AND MULLION SPAN FOR 1/4" THICK & 3/8" THICK ALUMINUM ANGLES USED TOP & BOTTOM FOR MULLION CONNECTION TO SUBSTRATE.



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 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 e-mail: tilliteco@aol.com CA-0006719 WALTER A. TILLIT JR. P.E. FLORIDA Lic. # 44167		UNITED ENERTECH HOLDINGS, LLC 3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407 159 GENCO DRIVE HARTFORD, AL 36344 PHONE: (423)698-7715 FAX: (423)698-6629		7/21/2020 DATE
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2	-	-	4	-

MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 5 CONNECTION *

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
50	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
60	12' - 0"	12' - 0"	12' - 0"	10' - 6"	
70	12' - 0"	12' - 0"	10' - 10"	9' - 0"	
90	12' - 0"	10' - 6"	8' - 5"	7' - 0"	
100	12' - 0"	9' - 5"	7' - 7"	6' - 4"	

TYPE 5 CONNECTION W/ 1/4" THICK ALUMINUM ANGLE TO WOOD
 8 - 3/8"Ø LAG SCREWS W/ 3" Min. THREADED PENETRATION
 W/ 1.25" E.D & 2" SPACING

MAXIMUM MULLION SPAN (L ft) FOR A GIVEN DESIGN LOAD & MULLION SPACING FOR TYPE 7 CONNECTION *

W (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
50	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
60	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
70	12' - 0"	12' - 0"	12' - 0"	10' - 5"	
90	12' - 0"	12' - 0"	9' - 9"	8' - 2"	
120	12' - 0"	9' - 2"	7' - 4"	6' - 1"	

TYPE 7 CONNECTION W/ 3/8" THICK ALUMINUM ANGLE TO WOOD
 8 - 3/8"Ø LAG SCREWS W/ 3" Min. THREADED PENETRATION
 W/ 1.25" E.D & 2" SPACING

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 Miami-Dade Product Control

*** NOTES:**

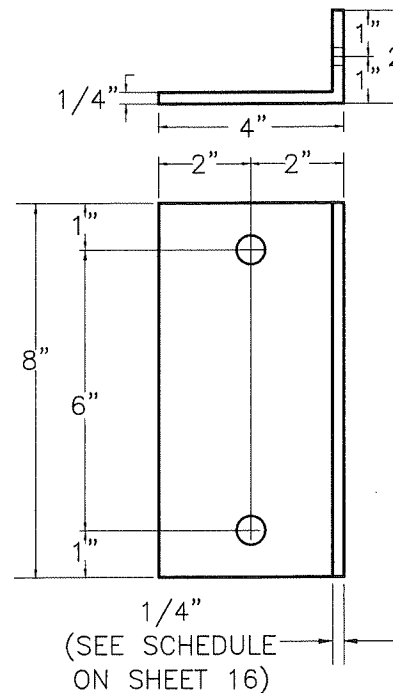
(1) SEE SHEET 12 THRU 16 FOR ADDITIONAL MAXIMUM MULLION SPAN LIMITATIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND MAXIMUM SPACING. MAXIMUM MULLION SPAN (ASSEMBLY HEIGHT) SHALL BE THE MINIMUM BETWEEN SCHEDULES ON SHEET 12 AND THIS SHEET FOR A CONNECTION TYPE.

(2) SEE SHEET 16 FOR ANGLE SCHEDULE INDICATING MAXIMUM ALLOWABLE A.S.D. DESIGN PRESSURE RATING, MULLION SPACING AND MULLION SPAN FOR 1/4" THICK & 3/8" THICK ALUMINUM ANGLES USED TOP & BOTTOM FOR MULLION CONNECTION TO SUBSTRATE.

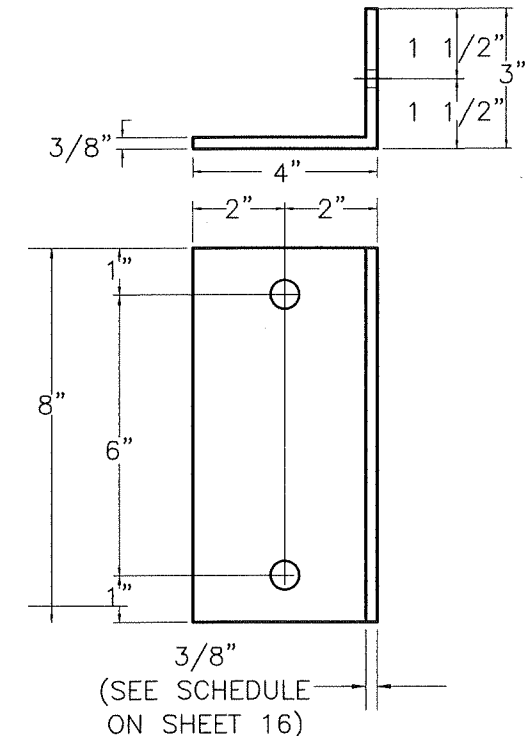
MAXIMUM MULLION SPAN (L ft) FOR A GIVEN DESIGN LOAD & MULLION SPACING FOR TYPE 6 CONNECTION *

W (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
50	12' - 0"	9' - 9"	7' - 9"	6' - 6"	
60	10' - 0"	8' - 1"	6' - 6"	5' - 5"	
70	9' - 0"	6' - 11"	5' - 7"	4' - 8"	
90	7' - 0"	5' - 5"	4' - 4"	3' - 7"	

TYPE 6 CONNECTION W/ 3/8" THICK ALUMINUM ANGLE TO WOOD
 8 - 3/8"Ø LAG SCREWS W/ 1.5" Min. THREADED PENETRATION
 W/ 1.25" E.D & 2" SPACING



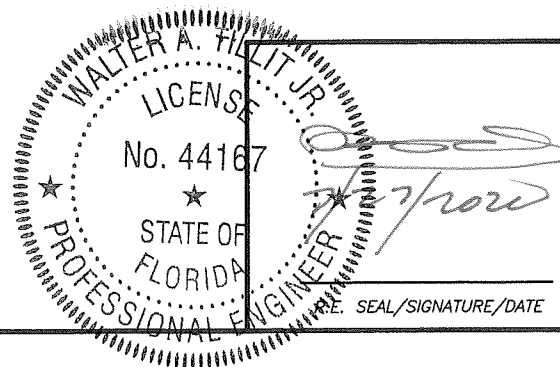
1/4"
 (SEE SCHEDULE ON SHEET 16)
2"x4"x1/4"x0'-8" ALUMINUM ANGLE



3/8"
 (SEE SCHEDULE ON SHEET 16)
3"x4"x3/8"x0'-8" ALUMINUM ANGLE

SCHEDULE FOR MULLION CONNECTION TO WOOD
 (Min. G=0.55)

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 e-mail: tilteco@aol.com
 CA-0006719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167

ALUMINUM LOUVER SYSTEM MODEL FL-D-6
UNITED ENERTECH HOLDINGS, LLC
 3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407
 159 GENCO DRIVE, HARTFORD, AL 36344
 PHONE: (423)698-7715 FAX: (423)698-6629

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 SHEET 14 OF 16

MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE

RATING & MULLION SPACING FOR TYPE 8 CONNECTION*

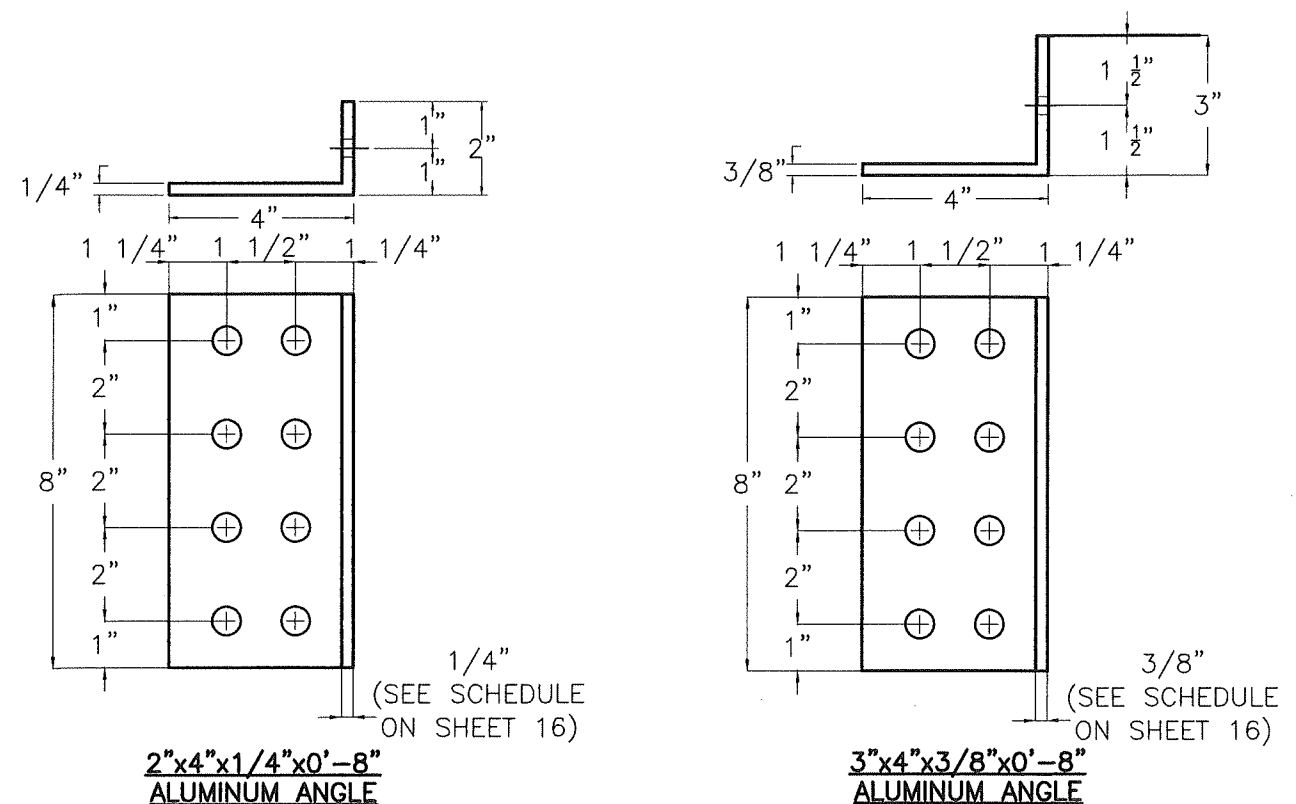
A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	12'-0"	
90	12'-0"	12'-0"	12'-0"	12'-0"	
100	12'-0"	12'-0"	12'-0"	12'-0"	
110	12'-0"	12'-0"	12'-0"	12'-0"	
120	12'-0"	12'-0"	12'-0"	12'-0"	
130	12'-0"	12'-0"	12'-0"	12'-0"	
140	12'-0"	12'-0"	12'-0"	12'-0"	
150	12'-0"	12'-0"	12'-0"	12'-0"	

TYPE 8 CONNECTION W/ 1/4" THICK ALUMINUM ANGLE* TO STEEL
8 - 3/8"Ø-16 MACHINE SCREWS W/ 1/8" MIN. MEMBER THICKNESS

MAXIMUM MULLION SPAN (L ft) FOR A GIVEN DESIGN LOAD & MULLION SPACING FOR TYPE 9 CONNECTION*

W (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	12'-0"	
90	12'-0"	12'-0"	12'-0"	12'-0"	
100	12'-0"	12'-0"	12'-0"	12'-0"	
110	12'-0"	12'-0"	12'-0"	12'-0"	
120	12'-0"	12'-0"	12'-0"	12'-0"	
130	12'-0"	12'-0"	12'-0"	12'-0"	
140	12'-0"	12'-0"	12'-0"	12'-0"	
150	12'-0"	12'-0"	12'-0"	12'-0"	

TYPE 9 CONNECTION W/ 3/8" THICK ALUMINUM ANGLE* TO STEEL
8 - 3/8"Ø-16 MACHINE SCREWS W/ 1/8" MIN. MEMBER THICKNESS



SCHEDULE FOR MULLION CONNECTION TO STEEL
(Min. Fy=33 ksi)

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*** NOTES:**

(1) SEE SHEET 9 FOR ADDITIONAL MAXIMUM MULLION SPAN LIMITATIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND MAXIMUM SPACING. MAXIMUM MULLION SPAN SHALL BE THE MINIMUM BETWEEN SCHEDULES ON SHEET 9 AND THIS SHEET FOR A CONNECTION TYPE.

(2) SEE SHEET 16 FOR ANGLE SCHEDULE INDICATING MAXIMUM ALLOWABLE A.S.D. DESIGN PRESSURE RATING, MULLION SPACING AND MULLION SPAN FOR 1/4" THICK & 3/8" THICK ALUMINUM ANGLES USED TOP & BOTTOM FOR MULLION CONNECTION TO SUBSTRATE.

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	<table border="1"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 17-127</td> <td>7/21/2020</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 17-127	7/21/2020	3	-	-	2	-	-	4	-	-	SHEET 15 OF 16
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	OLD 17-127	7/21/2020	3	-	-															
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**SCHEDULE FOR MAX. MULLION SPAN FOR A GIVEN A.S.D. DESIGN PRESSURE
RATING & MULLION SPACING IN ORDER TO USE 1/4" THICK ALUMINUM
ANGLE FOR MULLION CONNECTION TO SUBSTRATE***

A.S.D. D.P.R. (psf)	MULLION SPACING (ft)				ASSEMBLY HEIGHT
	3	4	5	6	
30	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
50	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
70	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
90	12' - 0"	12' - 0"	12' - 0"	10' - 0"	
100	12' - 0"	12' - 0"	10' - 10"	9' - 0"	
110	12' - 0"	12' - 0"	9' - 10"	8' - 2"	
120	12' - 0"	11' - 3"	9' - 0"	7' - 6"	
130	12' - 0"	10' - 5"	8' - 4"	6' - 11"	
140	12' - 0"	9' - 8"	7' - 9"	6' - 5"	
150	12' - 0"	9' - 0"	7' - 2"	6' - 0"	

*** NOTES:**

(1) ANY MULLION SPACING OR MULLION SPAN (ASSEMBLY HEIGHT) LARGER THAN THE ONES INCLUDED ON THIS SCHEDULE WILL REQUIRE A 3" x 4" x 3/8" THICK ALUMINUM ANGLE INSTEAD OF 2" x 4" x 1/4" THICK ALUMINUM ANGLE.

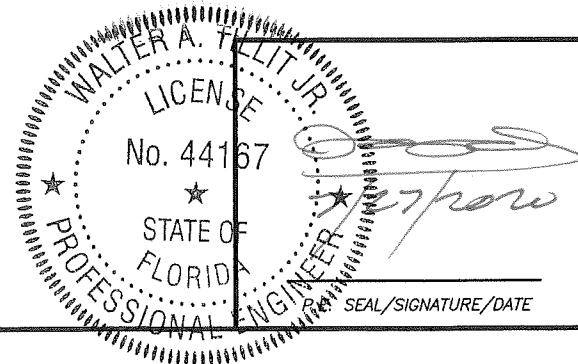
(2) SEE SHEET 12 FOR ADDITIONAL MAXIMUM MULLION SPAN (ASSEMBLY HEIGHT) LIMITATIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND MAXIMUM SPACING. MAXIMUM MULLION SPAN (ASSEMBLY HEIGHT) SHALL BE THE MINIMUM BETWEEN SCHEDULES ON SHEETS 12 THRU 14 AND 15 FOR A CONNECTION TYPE, AND SCHEDULE ON THIS SHEET.

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1/2"Ø THRU BOLT REQUIREMENTS FOR CONNECTION OF ALUMINUM ANGLE TO MULLION FOR MULLION END CONNECTION TO SUBSTRATE.

MULLION TYPE	1/2"Ø THRU BOLT REQUIRED
2"x6"	(1) REQUIRED
(2) 2"x6"	(2) REQUIRED & (1) EACH TUBE
4"x6" & 4"x8"	(2) REQUIRED

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**ALUMINUM LOUVER SYSTEM
MODEL FL-D-6**

UNITED ENERTECH HOLDINGS, LLC

3005 S. HICKORY STREET, CHATTANOOGA, TN, 37407
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