

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

NOTICE OF ACCEPTANCE (NOA)

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

Ruskin Company 3900 Dr. Greaves Road Grandview, MO 64030

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 EME520MD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **60-022286-00B**, titled "EME520MD", sheets 1 through 21 of 21, dated 08/02/2012, with revision **F** dated 10/24/2017, prepared by Ruskin Company, signed and sealed by Theodore Berman, 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, Geneva, AL and Juarez, Chihuahua C. P., Mexico, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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 revises NOA # 16-1107.03 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

102/23/2018

NOA No. 17-1214.18 Expiration Date: February 23, 2021 Approval Date: March 1, 2018

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

- A. DRAWINGS "Submitted under NOA # 16-0112.02"
 - 1. Drawing No. 60-022286-00B, titled "EME520MD", sheets 1 through 21 of 21, dated 08/02/2012, with revision E dated 12/22/2015, prepared by Ruskin Company, signed and sealed by Chelsea GQ. Welch, P.E.
- B. TESTS "Submitted under NOA # 12-0816.01"
 - 1. Test report 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 Model EME520MD (Assembly A) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **NCTL 210-3792-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.

- 2. Test report 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 Model EME520MD (Assembly B) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **NCTL 210-3782-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.

- 3. Test report 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 Model EME520MD (Assembly C) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **NCTL 210-3784-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.

- 4. Test report 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 Model EME520MD (Assembly D) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. NCTL 210-3790-2, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.

- 5. Test report 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 Model EME520MD (Assembly E) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **NCTL 210-3785-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 17-1214.18

Expiration Date: February 23, 2021 Approval Date: March 1, 2018

Ruskin Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (Continued)

- 6. Test report 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 Model EME520MD (Assembly F) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **NCTL 210-3784-4**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.

"Submitted under NOA # 05-0812.07"

- 7. Test report on 1) Large Missile Impact Test per FBC, TAS 201-94,
 - 2) Cyclic Wind Pressure Test per FBC, TAS 203-94
 - 3) Uniform Static Air Pressure Test per FBC, TAS 202-94

along with marked-up drawings and installation diagram of Series EME520MD aluminum louvers mulled together, prepared by Fenestration Testing Laboratory, Inc, Test Report No. **FTL-4525**, dated 04/22/2005, signed and sealed by E. J. Largaespada, P.E.

C. CALCULATIONS "Submitted under NOA # 16-0112.02"

1. Louver wind load review prepared by Ruskin Company, dated 12/22/2015, signed and sealed by Chelsea GQ. Welch, P.E.

"Submitted under NOA # 12-0816.01"

2. Louver wind load review prepared by Ruskin Company, dated 07/25/2012, signed and sealed by Daniel J. Rau, P.E.

"Submitted under NOA # 05-0812.07"

3. Calculations prepared by Ruskin Company, dated 08/10/2005, pages 1 though 13, signed and sealed by E. P. Hutson, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS "Submitted under NOA # 16-1107.03"

1. Distributor agreement dated 09/22/2016.

"Submitted under NOA # 16-0112,02"

Statement letter of code conformance to the 5th edition (2014) FBC issued by Ruskin Company, dated 12/22/2015, signed and sealed by Chelsea GQ. Welch, P.E.
 No financial interest letter issued by Ruskin Company, dated 12/22/2015, signed and sealed

3. No financial interest letter issued by Ruskin Company, dated 12/22/2015, signed and sealed by Chelsea GO. Welch, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 17-1214.18

Expiration Date: February 23, 2021 Approval Date: March 1, 2018

E-2

Ruskin Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 60-022286-00B, titled "EME520MD", sheets 1 through 21 of 21, dated 08/02/2012, with revision F dated 10/24/2017, prepared by Ruskin Company, signed and sealed by Theodore Berman, P.E.

B. TESTS

1. None.

C. CALCULATIONS

Louver wind load review prepared by Ruskin Company, dated 10/20/2017, signed and sealed by Theodore Berman, P.E. of Ted Berman and Associates, LLC.

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, prepared by Ted Berman and Associates, LLC, dated 10/31/2017, signed and sealed by Theodore Berman, P.E.
- 2. Statement letter of independence and of no financial interest, prepared by Ted Berman and Associates, LLC, dated 10/31/2017, signed and sealed by Theodore Berman, P.E.

O2/23/2018

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 17-1214.18
Expiration Date: February 23, 2021

Approval Date: March 1, 2018

NOTES:

- 1. THE EME520MD HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT. UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
- 2. THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 120 PSF OR LESS.
- 3. THIS LOUVER SYSTEM IS TO BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT. COMPONENTS OR SUPPLIES.
- 4. THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- 5. THIS LOUVER UTILIZES AN ANCHORLESS INSTALLATION METHOD THAT DOES NOT REQUIRE THE USE OF FASTENERS INTO THE WALL SUBSTRATE THAT WILL WITHSTAND THE LOADS TRANSFERRED TO IT BY THE LOUVER. IT SHALL BE THE RESPONSIBILITY OF PERMIT HOLDER/BUILDING DESIGN ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THIS LOUVER SYSTEM.
- 6. MAXIMUM SINGLE SECTION SIZE: 87 15/16" WIDE X 144" HIGH OR 104 15/16" WIDE X 144" HIGH (W/O JAMB ATTACHMENTS, HEAD AND SILL ATTACHMENTS ONLY) OR 144" WIDE X 112" HIGH.
- 7. MAXIMUM ASSEMBLED LOUVER SIZE: UNLIMITED WIDE X 144" HIGH W/ SECTION MULLIONS AT 87 7/8" (TRAPEZOIDS ALLOWED) OR UNLIMITED WIDE X 144" HIGH W/ SECTION MULLIONS AT104 15/16" (W/O JAMB ATTACHMENTS, HEAD AND SILL ATTACHMENTS ONLY) OR ROUND ASSEMBLIES UP TO 144" DIAMETER.
- 8. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
- 9. CMU BLOCKS MUST BE TYPE 1, GRADE N, LIGHT, MEDIUM OR NORMAL WEIGHT CONFORMING TO ASTM C90. CMU BLOCKS MUST BE FULLY GROUTED WITH COARSE GROUT CONFORMING TO FLORIDA BUILDING CODE SECTION 2122.8. TYPE N. S OR M MORTAR MUST COMPLY WITH FLORIDA BUILDING CODE SECTION 2103.9. MASONRY COMPRESSIVE STRENGTH MUST BE AT LEAST 1500 PSI AT TIME OF INSTALLATION.
- 10. ABBREVIATIONS: HDG IS HOT DIP GALVANIZED, STL IS STEEL AND HWH IS HEX WASHER HEAD.
- 11. ALL FASTENERS SHALL BE CORROSION RESISTANT.

$\langle E \rangle \langle F \rangle$ ENGINEER OF RECORD Ted Berman and Associates LLC THEODORE BERMAN Certificate of Authorization # 27502 ENGINEERING DISCIPLINE Miami Beach, FL 33141 (305) 868-4707 CIVIL/STRUCTURAL www.flproductapproval.com **REVISED ENGINEER OF RECORD** $\langle F \rangle$ REGISTRATION NUMBER CJD **MFV** MMM 10/24/17 FL# 09814 REVISED ENGINEER OF RECORD, NOTES & $\langle E \rangle$ **CGW** RSM **NLT** 12/22/15 DRAWING INDEX ONLY RECORD CHANGE DWN. REVISION DESCRIPTION CHK'D. APPV'D. APPV'D. DATE **PRODUCT REVISED** as complying with the Florida Building Code **USE** PLOT SCALE DRP DJR DJR BY: 3900 DR. GREAVES RD NOA-No. 17-1214.18 DATE: ᆼ DATE: DATE: GRANDVIEW, MO 64030 4733 OFFICE I NONE Air & Sound Control 5/16/12 8/2/12 8/2/12 Expiration Date 02/23/2021 TITLE DWG, NO. 2 Mars NGINEE EME520MD LOUVER Miami-Dade Product Control SONALE 10,000 ONAL ENTRY 60-022286-00B APPROVAL DRAWINGS FOR SHEET 1 0F 21

DRAWING INDEX:

60-022286-00B SHEET 1 OF 21 - NOTES AND DRAWING INDEX 60-022286-00B SHEET 2 OF 21 - ASSY. "A" & CONNECTION DETAILS 60-022286-00B SHEET 3 OF 21 - ASSY. "A" ALT. CONNECTION DETAILS 60-022286-00B SHEET 4 OF 21 - ASSY. "A", "B", "C", "D" & "F" ALT.

CONNECTION DETAILS

60-022286-00B SHEET 5 OF 21 - ASSY. "B"

60-022286-00B SHEET 6 OF 21 - ASSY. "C"

60-022286-00B SHEET 7 OF 21 - ASSY. "D"

60-022286-00B SHEET 8 OF 21 - ASSY. "B", "C" & "D" DETAILS

60-022286-00B SHEET 9 OF 21 - ASSY. "B". "C" & "D"

CONNECTION DETAILS

60-022286-00B SHEET 10 OF 21 - ASSY. "B", "C" & "D"

ALT. CONNECTION DETAILS

60-022286-00B SHEET 11 OF 21 - ASSY, "B", "C" & "D"

ALT. CONNECTION DETAILS

60-022286-00B SHEET 12 OF 21 - ASSY. "E" & CONNECTION DETAILS

60-022286-00B SHEET 13 OF 21 - ASSY. "E" ALT. CONNECTION DETAILS

60-022286-00B SHEET 14 OF 21 - ASSY, "E" DETAILS

60-022286-00B SHEET 15 OF 21 - ASSY. "F" & CONNECTION DETAILS

60-022286-00B SHEET 16 OF 21 - ASSY. "F" ALT. CONNECTION DETAILS

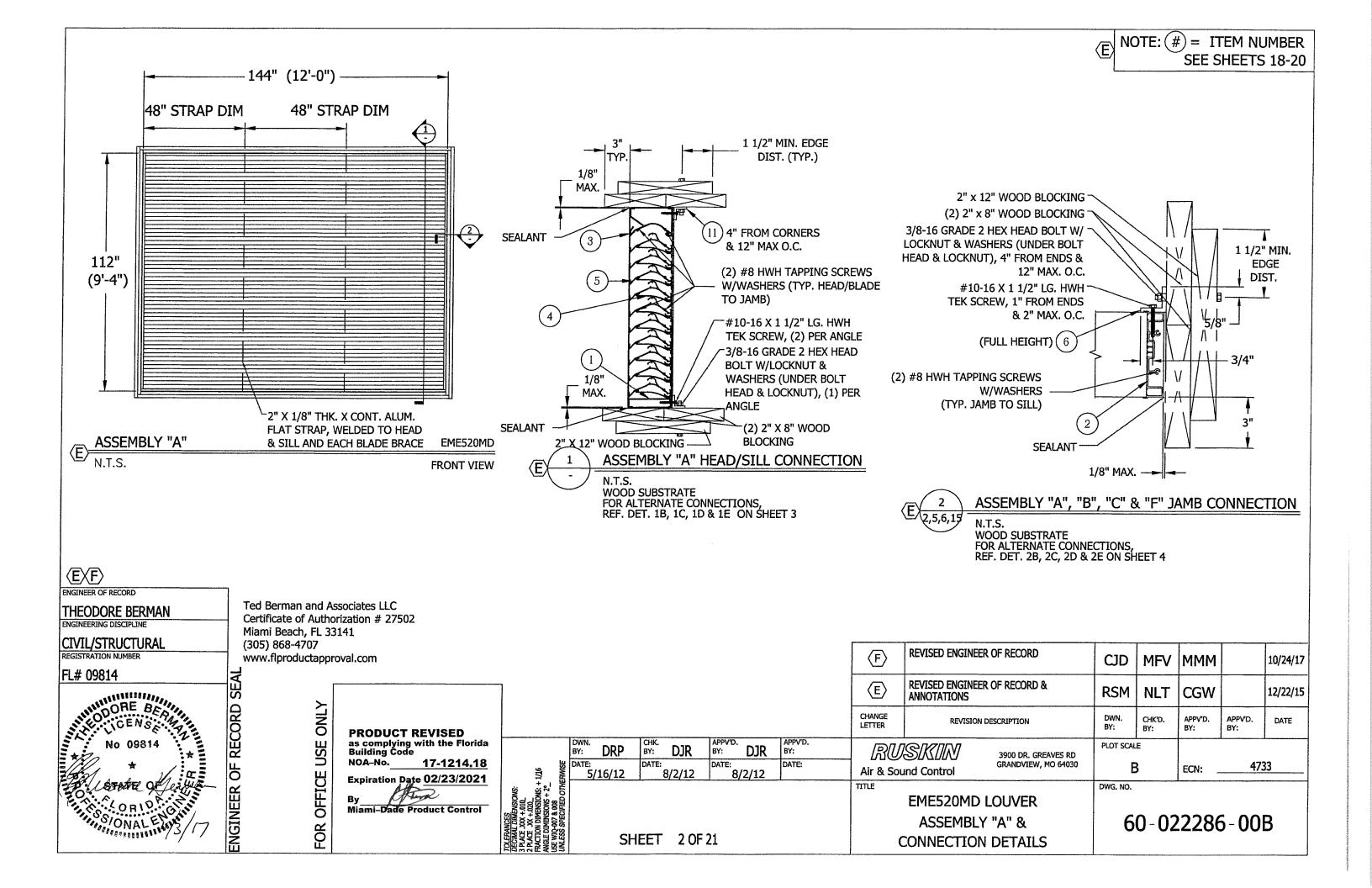
60-022286-00B SHEET 17 OF 21 - ASSY, "F" ALT, CONNECTION DETAILS

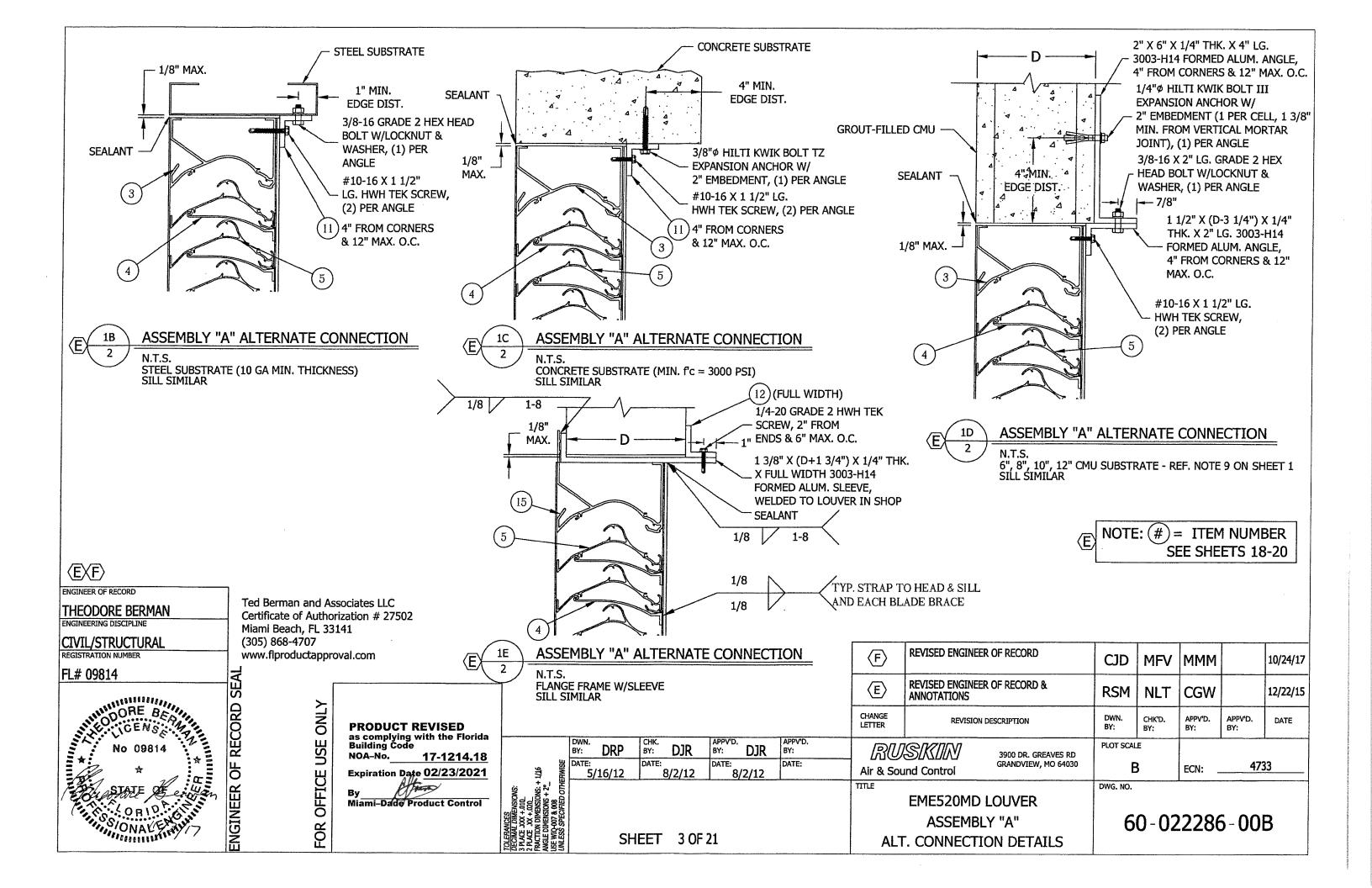
60-022286-00B SHEET 18 OF 21 - PARTS DETAILS

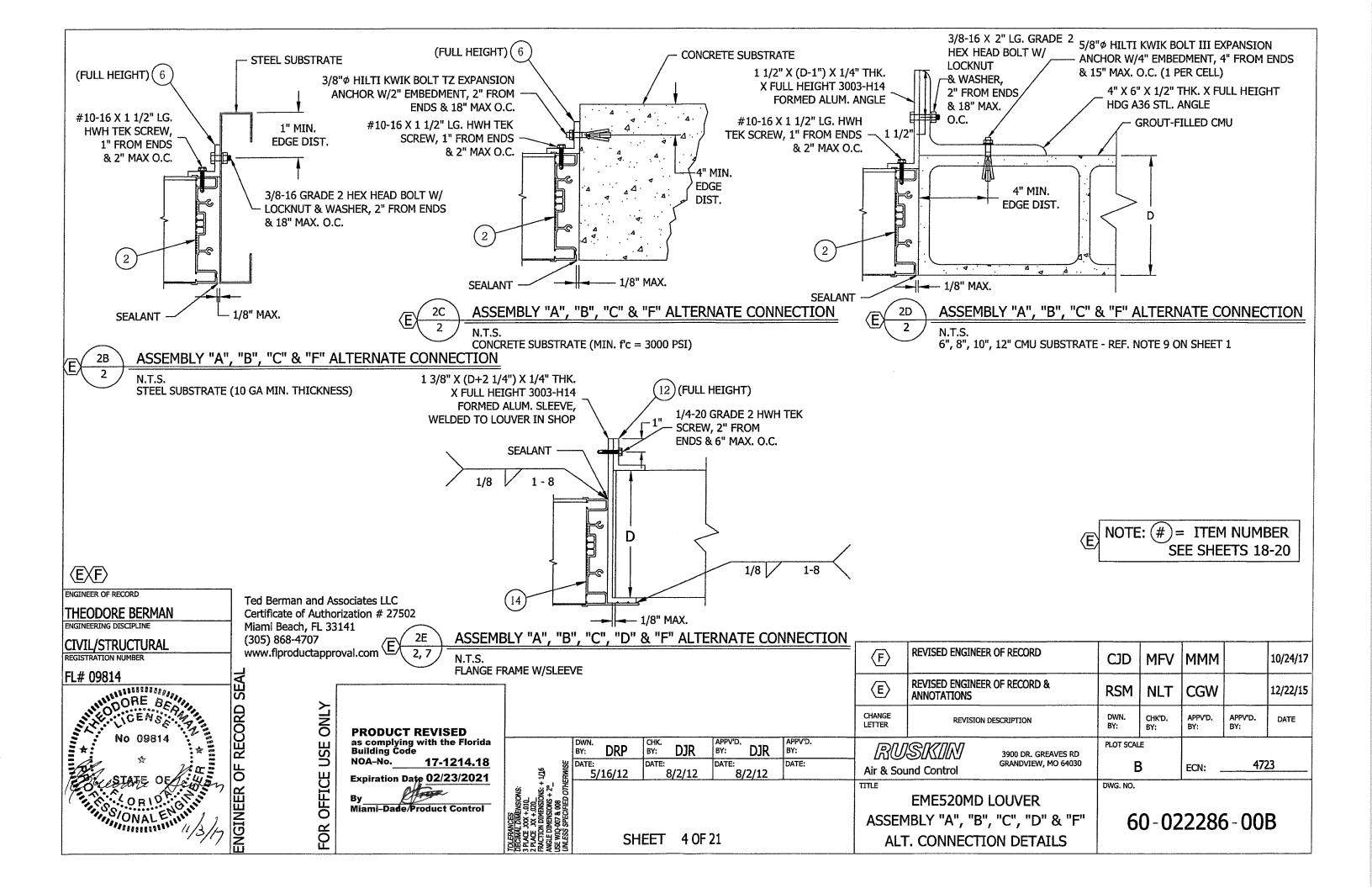
60-022286-00B SHEET 19 OF 21 - PARTS DETAILS

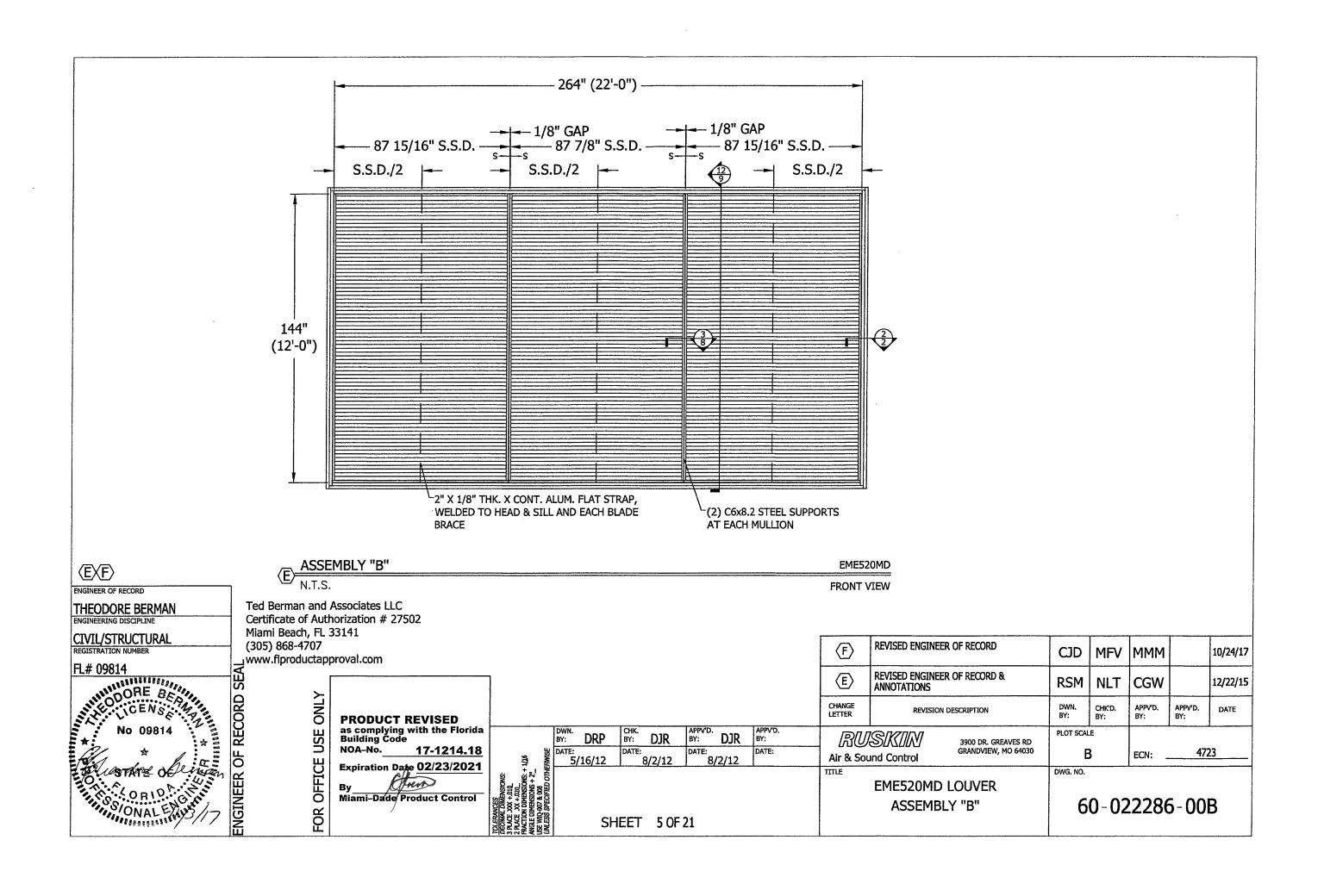
60-022286-00B SHEET 20 OF 21 - PARTS DETAILS

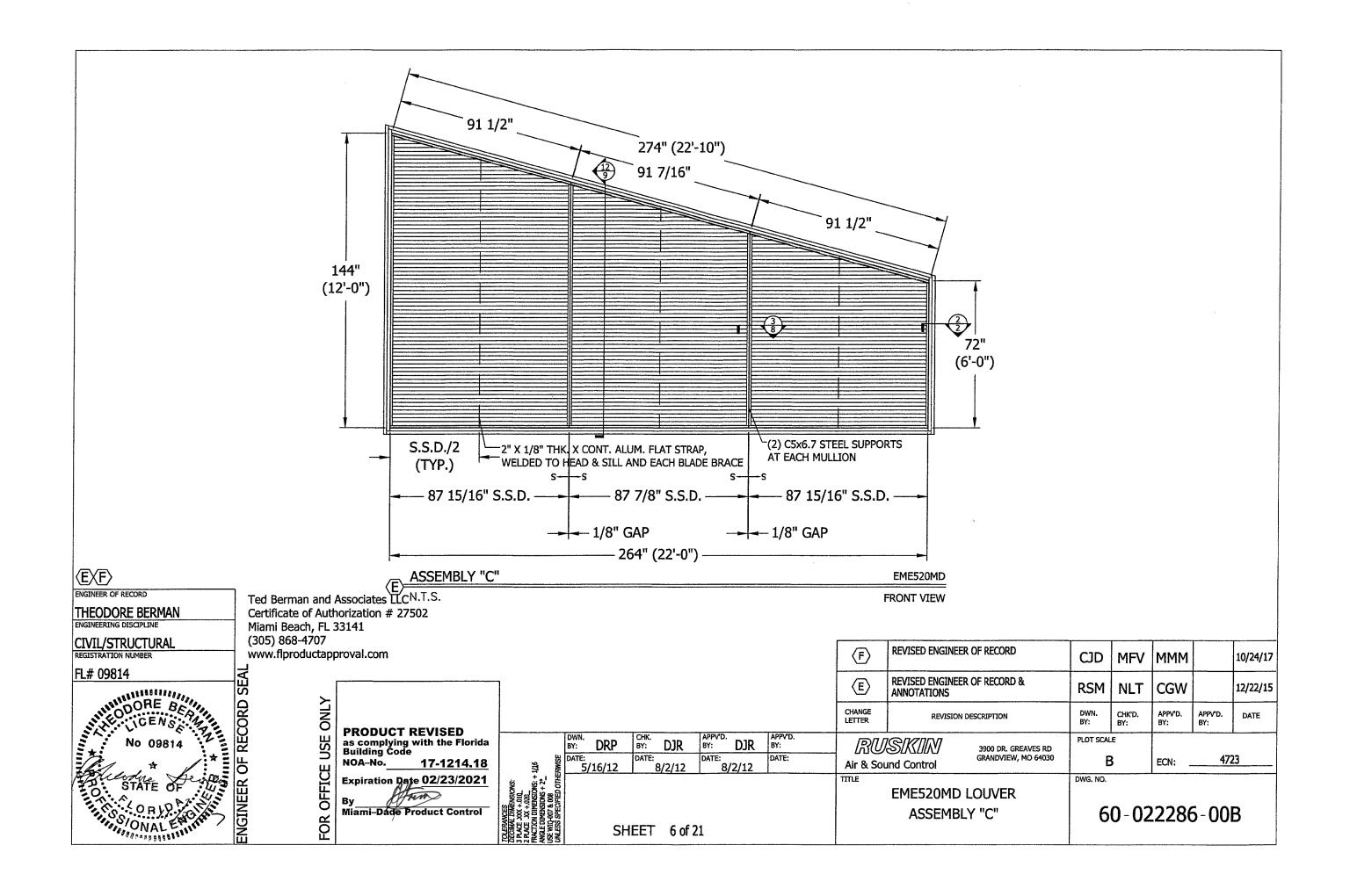
60-022286-00B SHEET 21 OF 21 - ASSY. "B", "C" & "D" SUPPORT TABLES

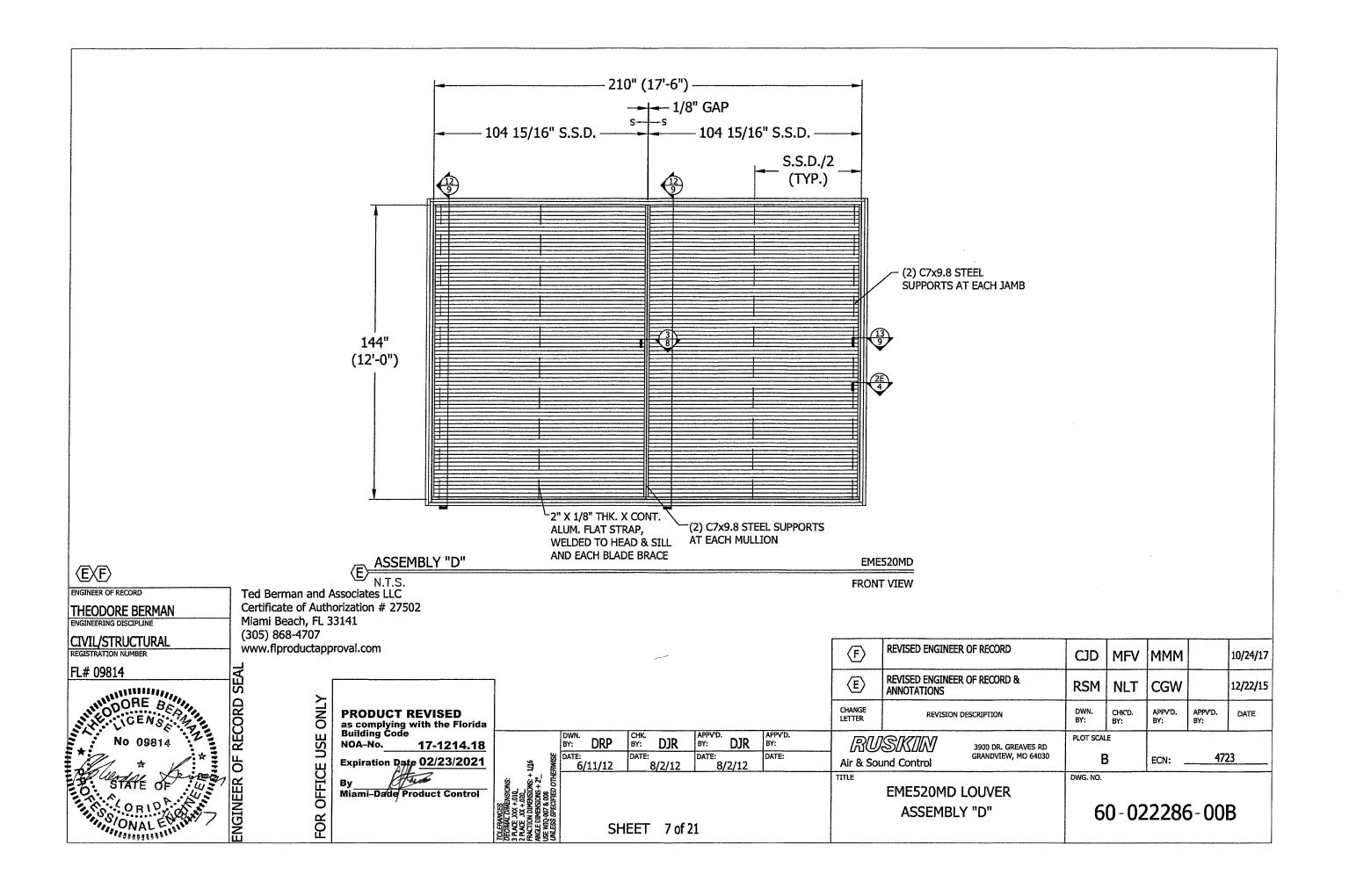


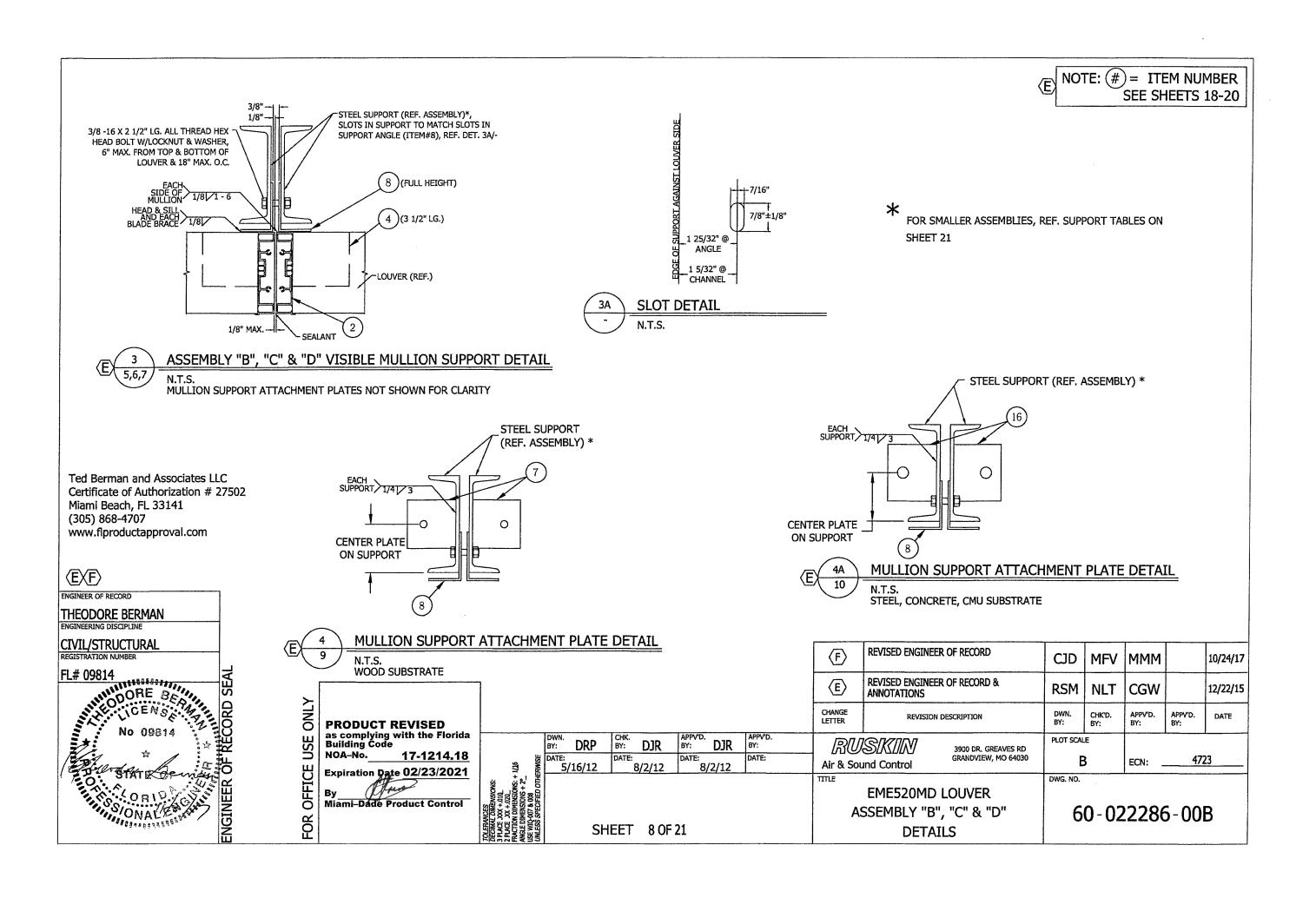


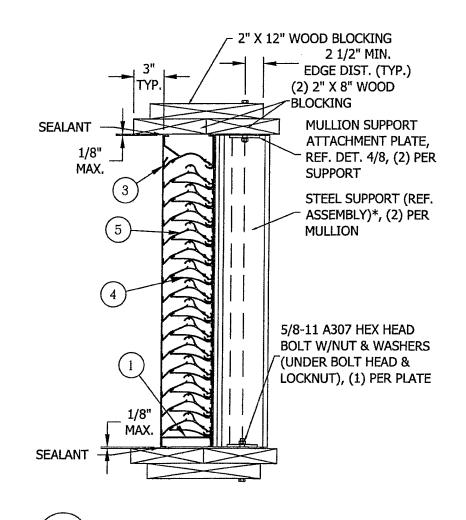


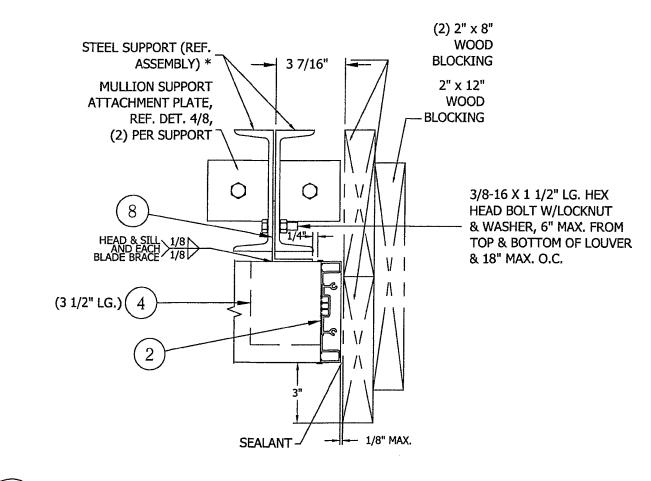












ASSEMBLY "B", "C" & "D" MULLION SUPPORT CONNECTION N.T.S. WOOD SUBSTRATE FOR ALTERNATE CONNECTIONS, REF. DET. 12A, 12B & 12C ON SHEET 10 AND DET. 12E ON SHEET 11 $\langle E \rangle \langle F \rangle$ ENGINEER OF RECORD Ted Berman and Associates LLC THEODORE BERMAN Certificate of Authorization # 27502

Miami Beach, FL 33141 NGINEERING DISCIPLINE (305) 868-4707

www.flproductapproval.com

ONLY

USE

OFFICE

FOR

CIVIL/STRUCTURAL

FL# 09814 STATE OF ENGINEER

PRODUCT REVISED as complying with the Florida Building Code 17-1214.18

Expiration Date 02/23/2021

Miami-Dade Product Control

DRP BY: DATE: 5/16/12

CHK, BY:

DATE:

DJR

8/2/12

BY:

DATE:

DJR

BY:

DATE:

ASSEMBLY "D" JAMB SUPPORT CONNECTION

N.T.S. WOOD SUBSTRATE OPPOSITE JAMB SIMILAR REF. DET. 12 ON THIS SHEET FOR ALTERNATE CONNECTIONS

FOR SMALLER ASSEMBLIES, REF. SUPPORT TABLES ON SHEET 21

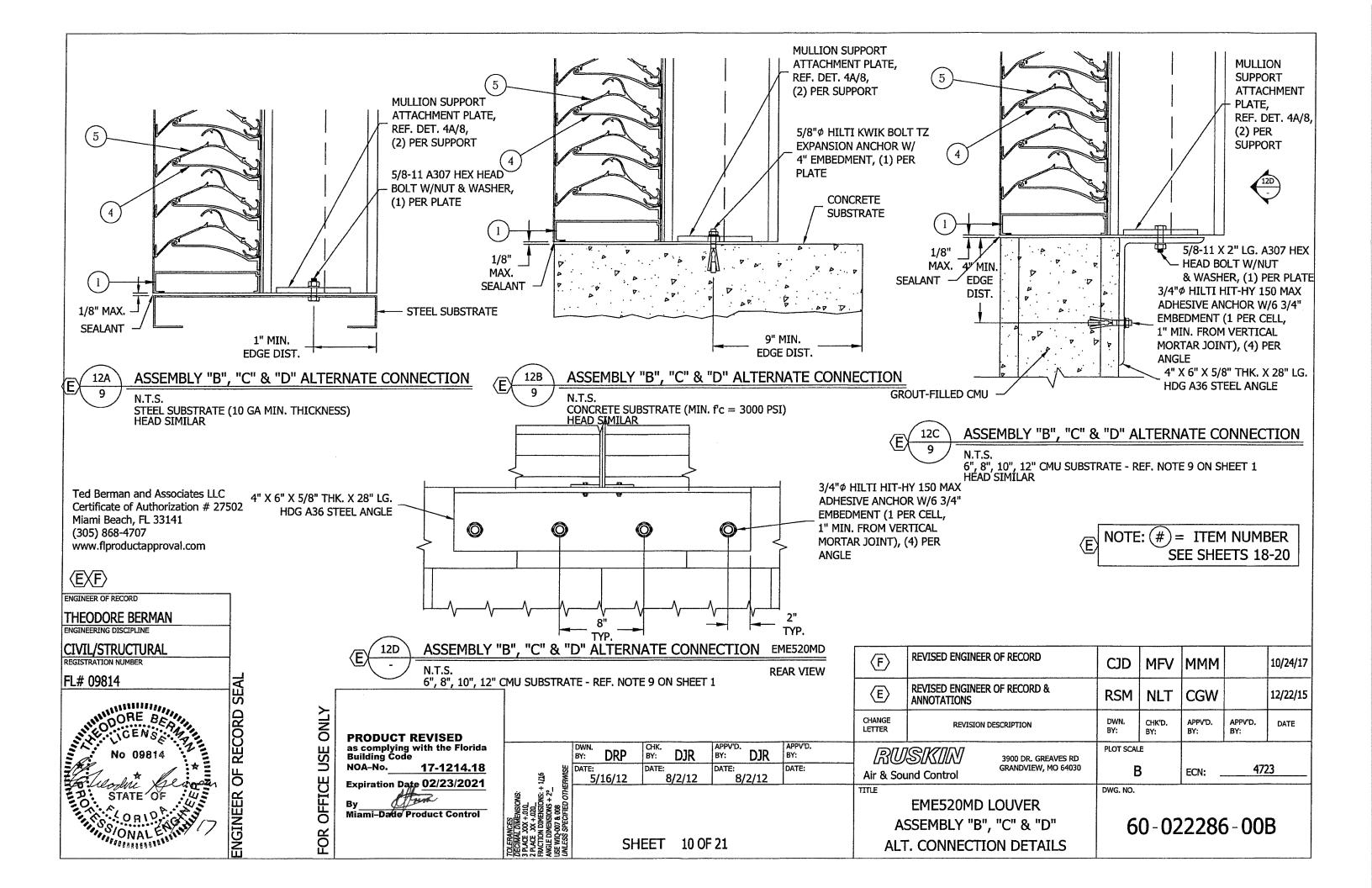
 $\langle F \rangle$ CJD MFV MMM 10/24/17 **REVISED ENGINEER OF RECORD &** (E) **RSM** NLT **CGW** 12/22/15 **ANNOTATIONS** CHANGE LETTER CHK'D. BY: APPV'D. APPV'D. REVISION DESCRIPTION DATE BY: PLOT SCALE RUSKIN 3900 DR. GREAVES RD GRANDVIEW, MO 64030 4723 Air & Sound Control

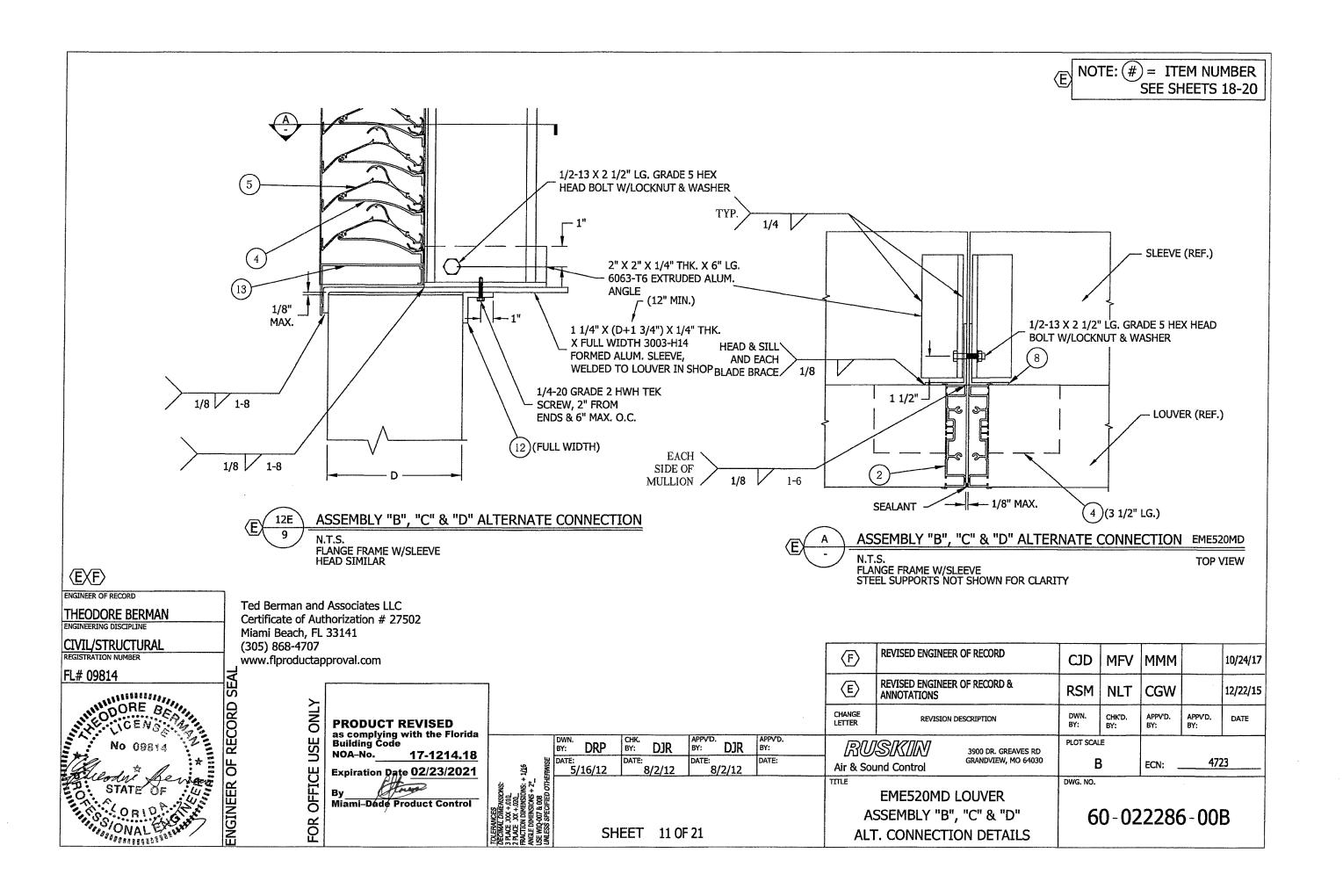
DWG. NO.

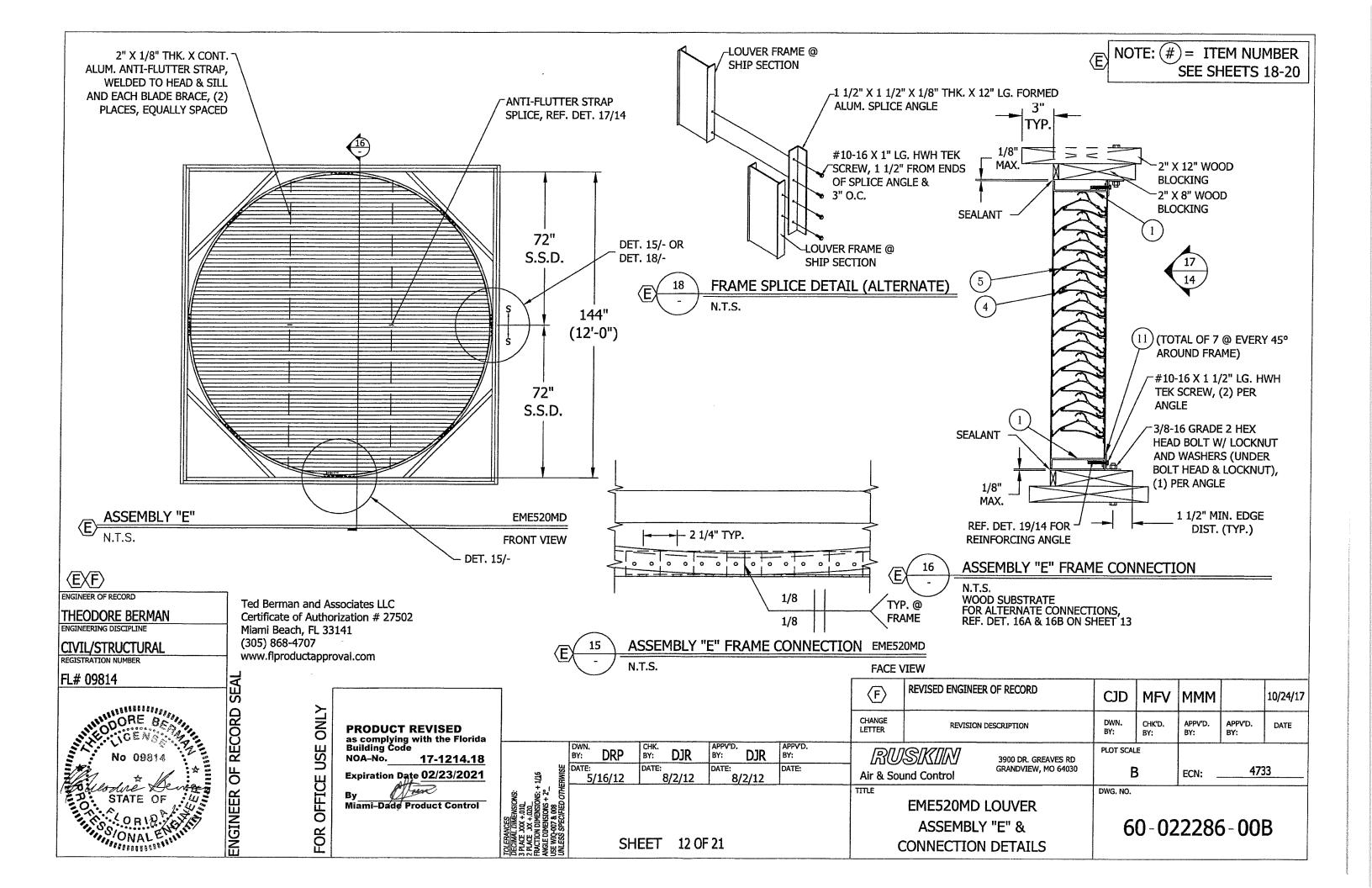
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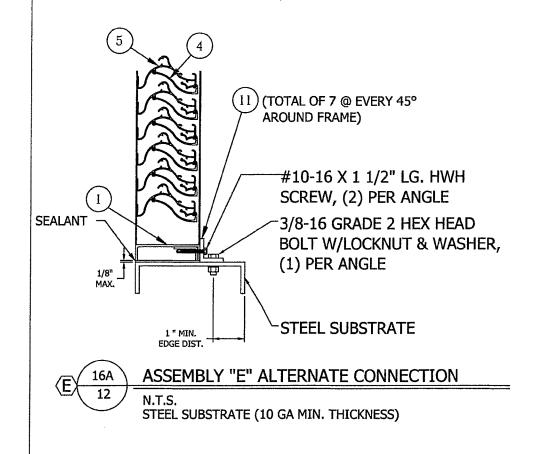
EME520MD LOUVER ASSEMBLY "B", "C" & "D" SHEET 9 OF 21 CONNECTION DETAILS

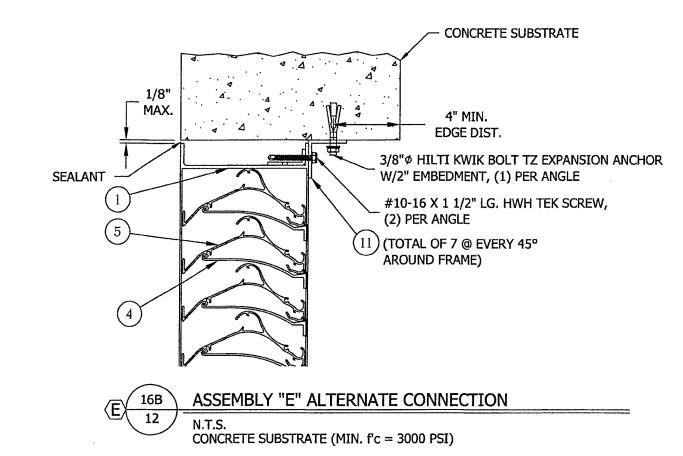
60-022286-00B











 $\langle E \rangle \langle F \rangle$ ENGINEER OF RECORD Ted Berman and Associates LLC THEODORE BERMAN Certificate of Authorization # 27502 Miami Beach, FL 33141 (305) 868-4707 CIVIL/STRUCTURAL REGISTRATION NUMBER www.flproductapproval.com FL# 09814 FOR OFFICE USE ONLY **PRODUCT REVISED** as complying with the Florida Building Code NOA-No. 17-1214.18 Expiration Date 02/23/2021

Miami-Dade Product Control

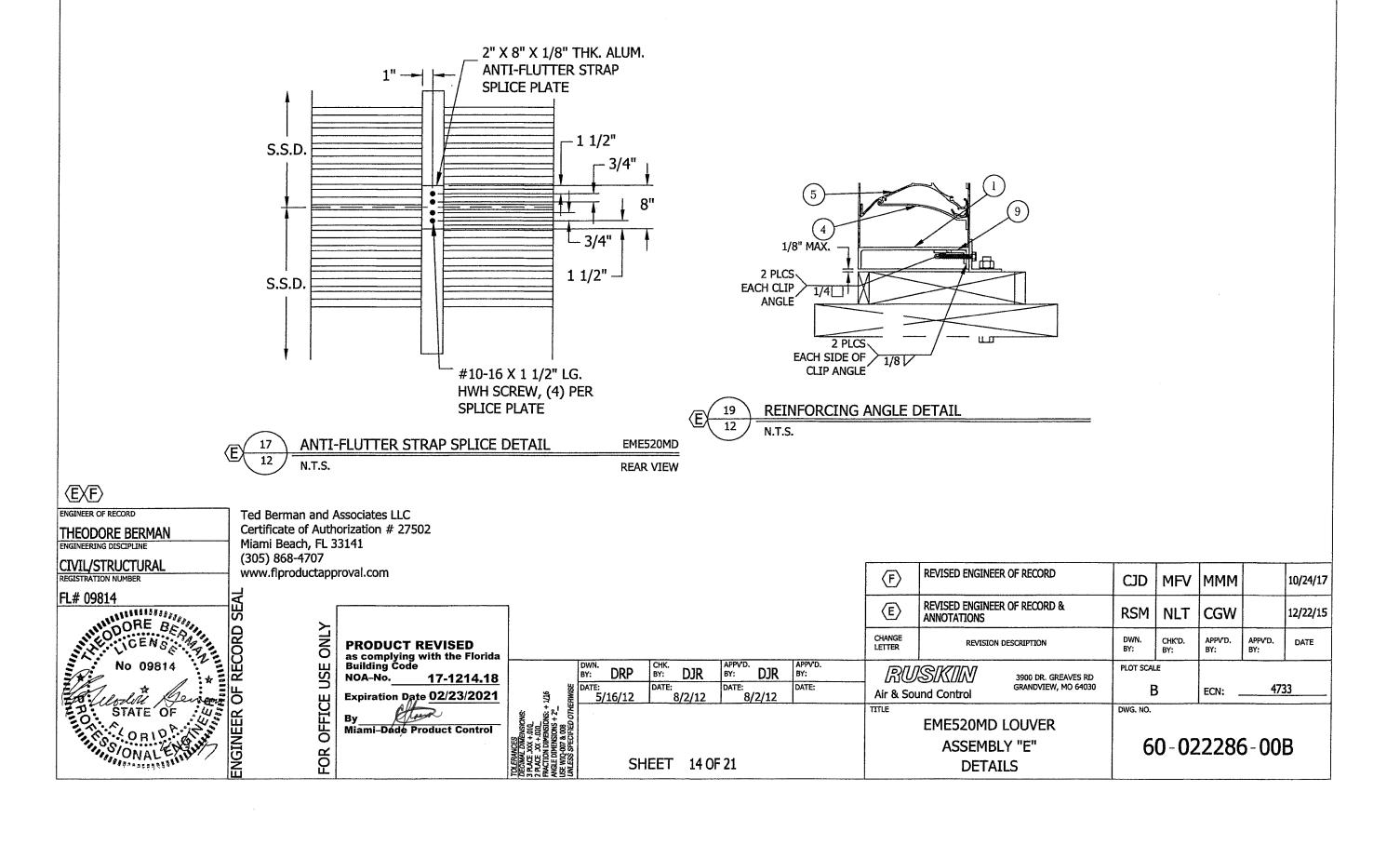
SHEET 13 0F 21

ON DIMENSIONS: + 1/16 DIMENSIONS + 2° Q-007 & 008 SPECIFIED OTHERWIS						EME520MD ASSEMBL		6	0-02	22286	5-00	В
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	DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:	RU	SKUN	3900 DR. GREAVES RD	PLOT SCAL	Ē			
					CHANGE LETTER	REVISION	DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
					E	REVISED ENGINEE ANNOTATIONS	R OF RECORD &	RSM	NLT	CGW		12/22/15
						TETTOLIS ENGLISE.	COLUMN TECONO	CJD	MFV	MMM		10/24/17

REVISED ENGINEER OF RECORD

ALT. CONNECTION DETAILS

NOTE: # = ITEM NUMBER
SEE SHEETS 18-20



NOTE: (#) = ITEM NUMBER SEE SHEETS 18-20

ASSEMBLY "F" - REMOVED

EME520MD

FRONT VIEW

Ted Berman and Associates LLC Certificate of Authorization # 27502 Miami Beach, FL 33141 (305) 868-4707 www.flproductapproval.com

ASSEMBLY "F" MULLION CONNECTION - REMOVED

WOOD SUBSTRATE
FOR ALTERNATE CONNECTIONS,
REF. DET. 5A, 5B & 5C ON SHEET 16 AND DET. 5E ON SHEET 17

(EXF) ENGINEER OF RECORD THEODORE BERMAN CIVIL/STRUCTURAL REGISTRATION NUMBER FL# 09814 HINDORE BEAT ENGINEER

ONLY

USE

FOR OFFICE

NOA-No.

PRODUCT REVISED as complying with the Florida Building Code

Expiration Date 02/23/2021

Miami-Dade Product Control

17-1214.18

ASSEMBLY "F" MULLION CONNECTION - REMOVED EME520MD N.T.S. WOOD SUBSTRATE **REAR VIEW**

F REVISED ENGINEER OF RECORD CJD MFV MMM 10/24/17 (E) **REVISED ENGINEER OF RECORD &** 12/22/15 RSM | NLT CGW ANNOTATIONS, REMOVED ASSY. "F" & **CONNECTION DETAILS** CHANGE LETTER CHK'D. BY: APPV'D. APPV'D. DATE REVISION DESCRIPTION BY: RUSIKIIN PLOT SCALE 3900 DR. GREAVES RD GRANDVIEW, MO 64030 В 4733 Air & Sound Control TITLE DWG. NO.

APPV'D. BY: APPV'D. BY: CHK. BY: DJR DATE: DATE: DATE:

SHEET 15 OF 21

EME520MD LOUVER 60-022286-00B ASSEMBLY "F" & **CONNECTION DETAILS**

NOTE: # = ITEM NUMBER SEE SHEETS 18-20

5B 15

ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED

N.T.S.

CONCRETE SUBSTRATE (MIN. f'c = 3000 PSI) HEAD SIMILAR

(E) 15

ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED

OFFICE

FOR

STEEL STRUCTURE (10 GA MIN. THICKNESS) HEAD SIMILAR

Ted Berman and Associates LLC Certificate of Authorization # 27502 Miami Beach, FL 33141 (305) 868-4707 www.flproductapproval.com

15

ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED

PLOT SCALE

DWG. NO.

В

N.T.S. 6", 8", 10", 12" CMU SUBSTRATE - REF. NOTE 9 ON SHEET 1 HÉAD SIMÍLAR

(EXF)

ENGINEER OF RECORD

THEODORE BERMAN ENGINEERING DISCIPLINE

CIVIL/STRUCTURAL

FL# 09814 ENGINEER OF OR V. OR V.

ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED EME520MD

N.T.S. 6", 8", 10", 12" CMU SUBSTRATE - REF. NOTE 9 ON SHEET 1

REAR VIEW

REVISED ENGINEER OF RECORD F CJD MFV MMM 10/24/17 **REVISED ENGINEER OF RECORD &** $\langle E \rangle$ **RSM** NLT **CGW** 12/22/15 ANNOTATIONS, REMOVED CONNECTION **DETAILS** CHANGE LETTER DWN. BY: CHK'D. BY: REVISION DESCRIPTION APPV'D. APPV'D. DATE

ONLY PRODUCT REVISED as complying with the Florida Building Code NOA-No. 17-1214.18

APPV'D. BY: DJR DATE: DATE:

GRANDVIEW, MO 64030 Air & Sound Control TITLE **EME520MD LOUVER**

RUSKIN

ASSEMBLY "F" **ALT. CONNECTION DETAILS**

3900 DR. GREAVES RD

60-022286-00B

4733

Expiration Date 02/23/2021 Miami-Dade Product Control

SHEET 16 OF 21

NOTE: (#) = ITEM NUMBER SEE SHEETS 18-20

ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED

N.T.S. FLANGE FRAME W/SLEEVE

ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED

REVISED ENGINEER OF RECORD

REVISED ENGINEER OF RECORD &

ANNOTATIONS, REMOVED CONNECTION

REVISION DESCRIPTION

EME520MD

FLANGE FRAME W/ SLEEVE

F

(E)

CHANGE LETTER

TOP VIEW

10/24/17

12/22/15

DATE

(EXF)

ENGINEER OF RECORD

THEODORE BERMAN ENGINEERING DISCIPLINE

CIVIL/STRUCTURAL

FL# 09814

Ted Berman and Associates LLC Certificate of Authorization # 27502 Miami Beach, FL 33141 (305) 868-4707 www.flproductapproval.com

> FOR OFFICE USE ONLY PRODUCT REVISED as complying with the Florida Building Code NOA-No. 17-1214.18 Expiration Date 02/23/2021

Miami-Dade Product Control

APPV'D. BY: APPV'D. BY: CHK. BY: DJR DJR DATE:

RUSKIN Air & Sound Control

DETAILS

3900 DR. GREAVES RD GRANDVIEW, MO 64030

PLOT SCALE В

DWG. NO.

DWN.

CJD

RSM

MFV

CHK'D.

MMM

APPV'D.

NLT CGW

ECN:

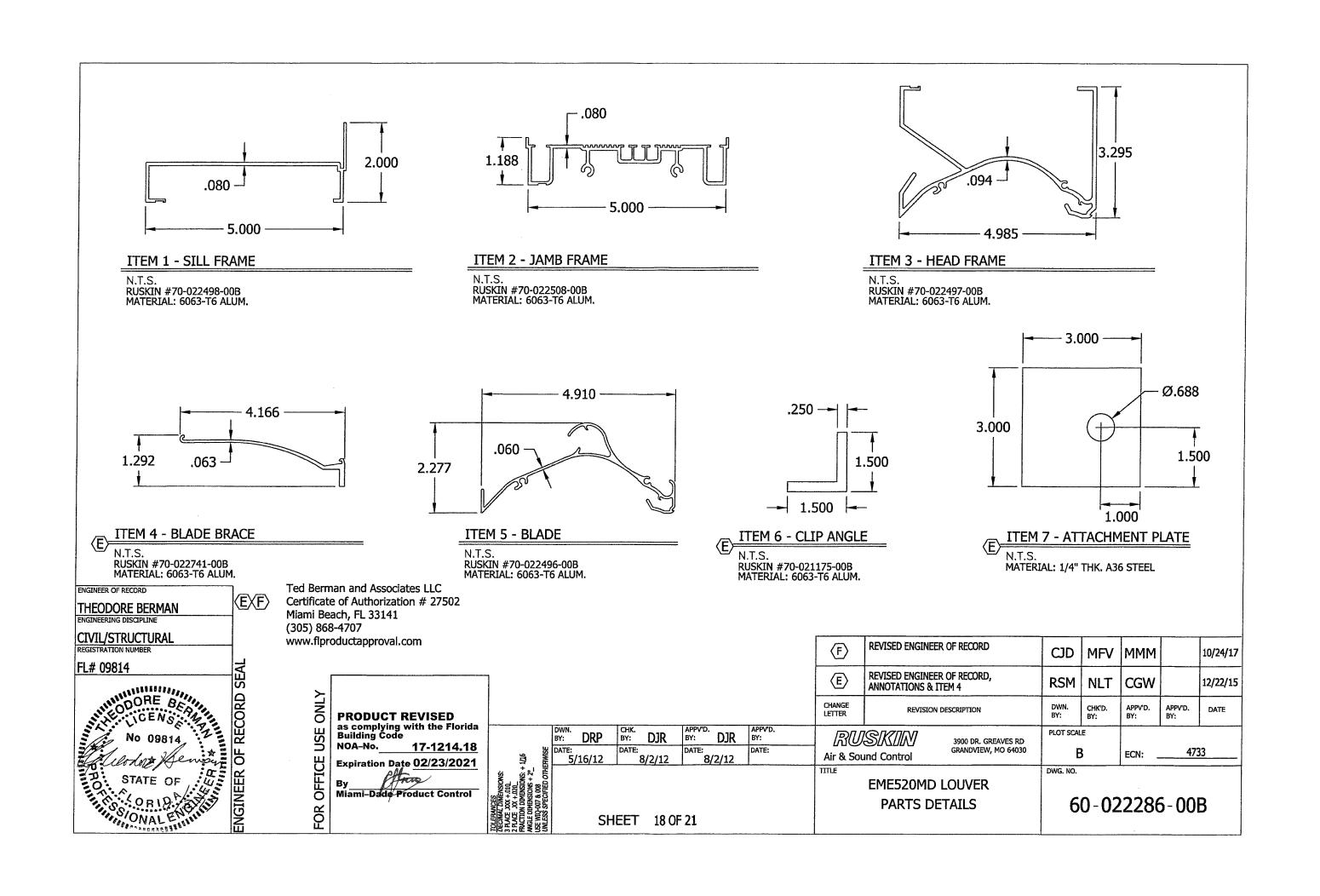
APPV'D.

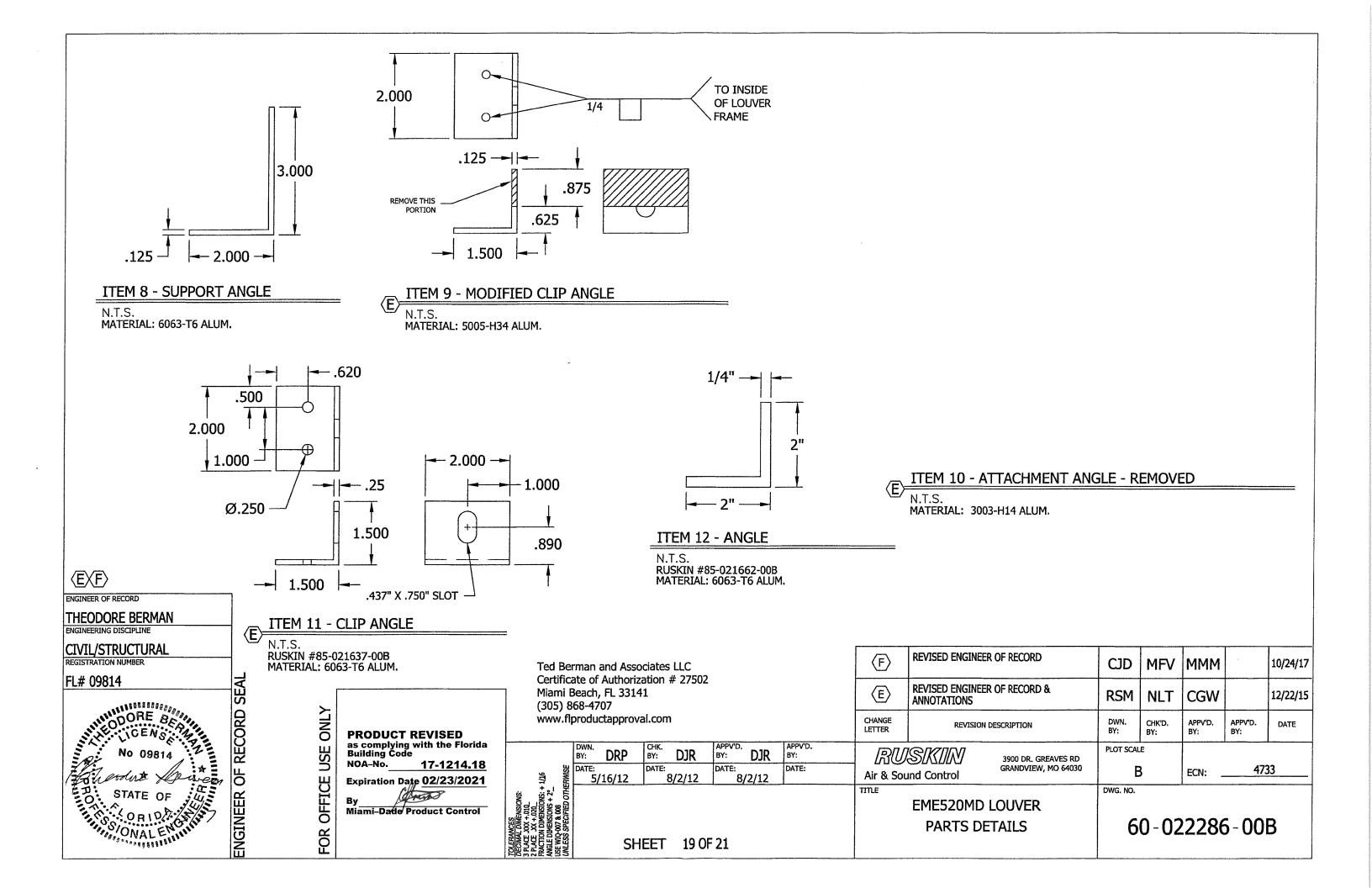
EME520MD LOUVER ASSEMBLY "F"

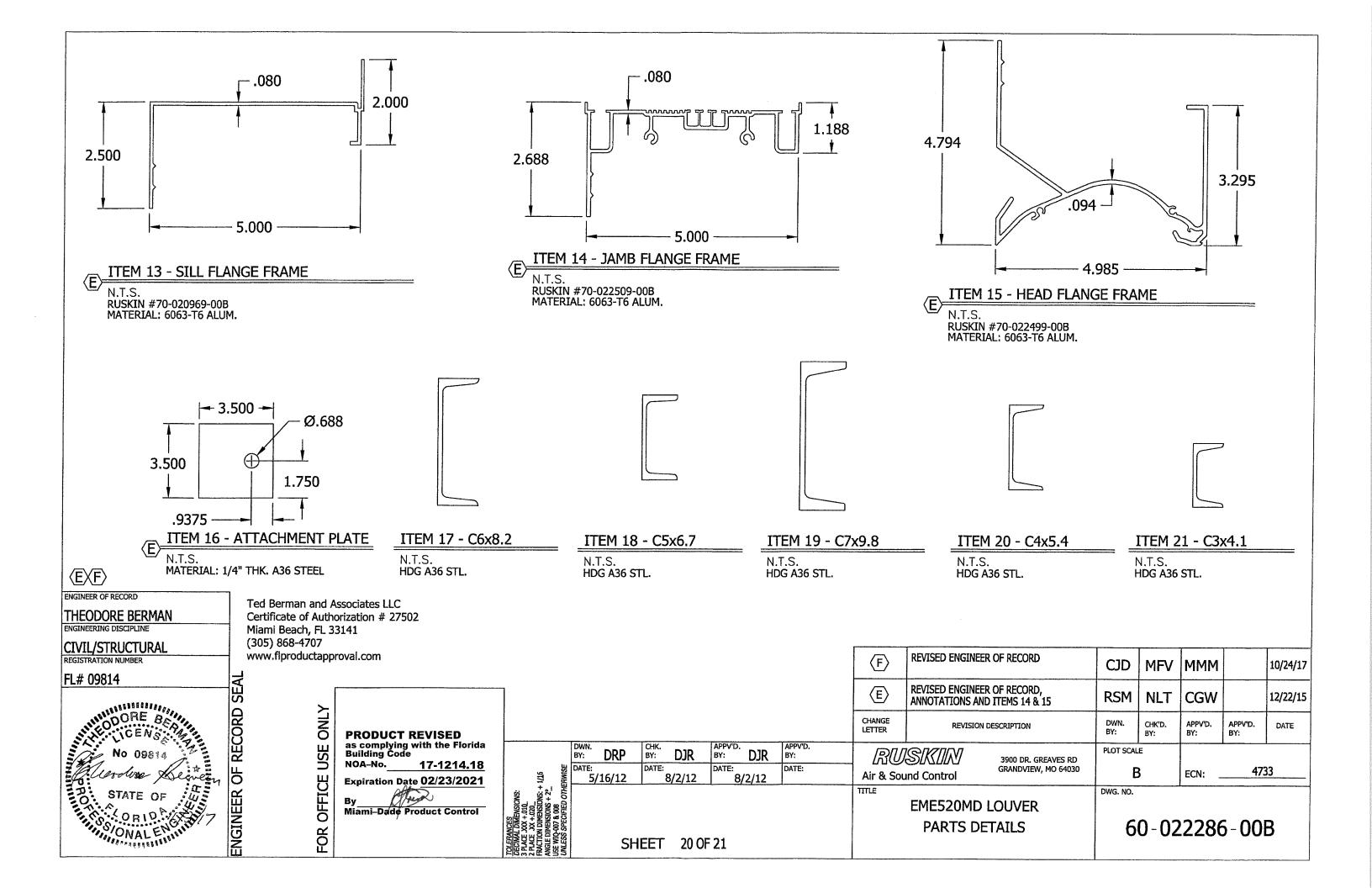
ALT. CONNECTION DETAILS

60-022286-00B

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© ASSEMBLY "B" & "C" SUPPORT TABLE									
MULLION HEIGHT	LLION HEIGHT MULLION SUPPORT		MULLION TO STEEL ATTACHMENT	MULLION TO CONCRETE ATTACHMENT	MULLION TO CMU ATTACHMENT				
FROM 133" TO 144"	(2) C6x8.2	DETAIL 4, 12	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				
FROM 116" TO 133"	(2) C5x6.7	DETAIL 4, 12	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				
FROM 103" TO 116"	(2) C4x5.4	DETAIL 4, 12	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				
FROM 12" TO 103"	(2) C3x4.1	DETAIL 4, 12	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				

© ASSEMBLY "D" SUPPORT TABLE									
JAMB/MULLION HEIGHT	JAMB/MULLION SUPPORT	JAMB/MULLION TO WOOD ATTACHMENT	JAMB/MULLION TO STEEL ATTACHMENT	' (ONCRETE)					
FROM 140" TO 144"	(2) C7x9.8	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				
FROM 123" TO 140"	(2) C6x8.2	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				
FROM 108" TO 123"	(2) C5x6.7	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				
FROM 95" TO 108"	(2) C4x5.4	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				
FROM 12" TO 95"	(2) C3x4.1	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C				

 $\langle E \rangle \langle F \rangle$

ENGINEER OF RECORD

THEODORE BERMAN ENGINEERING DISCIPLINE

CIVIL/STRUCTURAL REGISTRATION NUMBER

ENGINEER OF RECORD SEAL

Ted Berman and Associates LLC Certificate of Authorization # 27502 Miami Beach, FL 33141 (305) 868-4707

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USE ONLY	PRODUCT REVISED as complying with the Florida Building Code NOA–No. 17-1214.18
OFFICE	By Miami-Dade Product Control
FOR	

					LETTER
	DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:	<i>R</i> 3
VS: + 1/16 + 2°_ OTHERWISE	DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:	Air &
VSIONS: + NNS + 2° NOS + 2° NO					TITLE

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F	REVISED ENGINEER OF RECORD	CJD	MFV	ммм		10/24/17	
Œ	REVISED ENGINEER OF RECORD & SUPPORT TABLES	RSM	NLT	CGW		12/22/15	
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE	
RU	RUSIKIIN 3900 DR. GREAVES RD		PLOT SCALE				
	ind Control GRANDVIEW, MO 64030	В		ECN: 473		33	
TITLE		DWG, NO.					

EME520MD LOUVER ASSEMBLY "B", "C" & "D" SUPPORT TABLES

REVISED ENGINEER OF RECORD

60-022286-00B