Project Order Modification (P.O.M.) #5 for Project Order 91

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PROJECT NAME:	U010C - MIA Airside Operation Break Room	PROJECT ORDER No:	91
CONTRACT TITLE:	Miscellaneous Construction Contracts, MCC-8-10	DATE:	04/26/2021
CONTRACTOR:	MCM Corporation	PAGES:	41

The contractor is hereby authorized to make the following changes to the current contract and perform the work subject to all contract stipulations and covenants. Except as otherwise specifically set forth herein, the terms and conditions for the Project Order remain unchanged.

<u>_RWP # - 25</u> AMOUNT:	Direct Cost On Air Mechanical \$ Paradise Construction \$ Subtotal \$ MCC Fee (7.96%) \$		х ж
DESCRIPTION OF WORK REASON FOR CHANGE: JUSTIFICATION: METHOD OF PAYMENT: S	Contractor and finish the re AHJ Requirement The inspector requested a Building code.	vall louver system model ECD-545-MI estroom ceiling in two phases by Para different louver than shown in plar ER (P.O.) AMOUNT	dise Construction.
REASON FOR CHANGE: Regulatory Change Other Agency Requested Change Design Errors Change Design Omission Change County Requested Change	ORIGINAL P.O. AMOUNT COST OF CONSTRUCTION CHANG ADJUSTED P.O. AMOUNT PRIOR COST OF CONSTRUCTION CHANG ADJUSTED P.O. AMOUNT INCLUE	TO THIS P.O.M. SES THIS P.O.M.	\$ 364,090.17 \$ 117,762.13 \$ 481,852.30 \$ 3,179.92 \$ 485,032.22
	LOWED BY THIS CHANGE		_33.22%
A/E CERTIFYING STATEMENT: Hereby certify reasonable and in proper ratio to the cost of the orig By: ACCEPTED: GENERAL CONTRACT PRINT NAME: Juan Munilla (MCM	OR DATE		4/28/21 DATE
By: APPROVED MDAD PROJECT MAN PRINT NAME: Sergio Negreira	De al		
By: APPROVED: MDAD CHIEF OF CON PRINT NAME: Enrique Perez Sergio San By: Miguel APPROVED: MDAD CHIEF FINANC Date: 2021.05.14 15:45:31-0 APPROVED: MDAD CHIEF FINANC PRINT NAME: Sergio San Miguel	Miguel MDAD, MDAD, 400'	APPROVED: ASST. DIRECTOR OF FAC PRINT NAME: Pedro F. Hernández,	

Purchase Order

AVIATION DEPARTMENT	CHANGE ORDER	Dispatch via Print
4200 NW 36TH Street		Date Revision Page
Miami FL 33102		08/09/2019 7 - 04/28/2021 1
United States	Payment Terms Freight Terr	
e u <u>e</u> <u></u>	N30 Destinati	
Supplier: 0000016621		Carrier
MUNILLA CONSTRUCTION MANAGEMENT, LLC		Phone Currency
MCM LOCK BOX ACCOUNT P.O. BOX 829931	Maria Najera-Matos -MDAD Ship To: 1C30401C	
PHILADELPHIA PA 19182	Warehouse Bldg	2040
	4331 NW 22nd S	
	Miami FL 33122	
	United States	
	Attention: Not Specified	
	Bill To: Accounts Payable	
	P.O. Box 526624	
	MIAMI FL 33152-	6624
	United States	
Tax Exempt? Y Tax Exempt ID: 59-6000573	Replenishment Option:	Standard
Line-Sch Item/Description Mfg ID		Price Extended Amt Due Date
1- 1	1.00EA 485,03	2.22 485,032.22 08/09/2019
PO 91, POM 1-5, UO10C MIA AIRSIDE		
OPERATION BREAK ROOM PO 91 -		
\$364,090.17; POM 1-5 = \$120,942.05		
Contract ID: MCC-8-10	Contract Line: 6 Ca	tegory Line: 0 Release: 268
	Item Total	485,032.22
	Total PO Amount	485,032.22

Authorized Signature Vivian R. Gonzalez Oht: cn=VVian R. Gonzalez, o=MDAD, ou=Program Controls, email=vgonzalez, o=MDAD, ou=Program Controls, email=vgonzalez@miami-airport.com, c=US Date: 2021.04.29 14:16:55-04'00'

Martin, Belinda (TOP)

From:	Negreira, Sergio (Aviation)
Sent:	Thursday, April 22, 2021 10:20 AM
То:	Martin, Belinda (TOP)
Cc:	McCudden, Natalie A. (Aviation); Pereira, Felix (Aviation); Perez, Enrique (Aviation)
Subject:	Re: MCC-8-10 - U010C - MIA - Airside Operation Break Room - RWP #25

I had already reviewed the documentation on this, and I agree with the cost. Thank you

Sergio Negreira, CM3 Facilities Dev. MIA

From: Martin, Belinda (TOP) <T-BMartin@miami-airport.com>
Sent: Thursday, April 22, 2021 10:17 AM
To: Negreira, Sergio (Aviation) <SNegreira@miami-airport.com>
Cc: McCudden, Natalie A. (Aviation) <T-NMcCudden@miami-airport.com>
Subject: RE: MCC-8-10 - U010C - MIA - Airside Operation Break Room - RWP #25

Thank you Sergio,

As mentioned below this RWP is less than \$5,000 so it doesn't have to go to US Cost for cost review. Please let me know if you agree with MCM's proposed amount ?

Best regards,

Belinda Martin Cost Engineer (305) 869-3328 t-bmartin@miami-airport.com

Please consider the environment before printing this e-mail. Think Green.

From: Negreira, Sergio (Aviation) <SNegreira@miami-airport.com>
Sent: Thursday, April 22, 2021 9:30 AM
To: Martin, Belinda (TOP) <T-BMartin@miami-airport.com>
Cc: Luis Acevedo <LAcevedo@HNTB.com>; McCudden, Natalie A. (Aviation) <T-NMcCudden@miami-airport.com>; Pereira, Felix (Aviation) <FPereira@miami-airport.com>; Perez, Enrique (Aviation) <EPEREZ@miami-airport.com>
Subject: Re: MCC-8-10 - U010C - MIA - Airside Operation Break Room - RWP #25

Good morning Bel

The inspector requested a different louver than shown in plans to meet new code. This needs the contractor to work around it to gain time. It is an inspector requirement Doing the work in 2 phases is needed to finish the work on time. I hope this answers your question. Thank you Sergio Negreira, CM3 Facilities Dev. MIA

From: Martin, Belinda (TOP) <<u>T-BMartin@miami-airport.com</u>>
Sent: Wednesday, April 21, 2021 2:57 PM
To: Negreira, Sergio (Aviation) <<u>SNegreira@miami-airport.com</u>>
Cc: Luis Acevedo <<u>LAcevedo@HNTB.com</u>>; Lourdes Larrea <<u>llarrea@hntb.com</u>>; jws@schindlerarchitects.com
<<u>jws@schindlerarchitects.com</u>>; Chardiet-Medina, Maite <<u>maite.chardiet-medina@rib-uscost.com</u>>; McCudden, Natalie
A. (Aviation) <<u>T-NMcCudden@miami-airport.com</u>>; DocControl FacilitiesDevelopment <<u>DocControlFacilitiesDev@miami-airport.com</u>>; Subject: RE: MCC-8-10 - U010C - MIA - Airside Operation Break Room - RWP #25

Good Afternoon Sergio,

Please provide merit and justification for the attached *RWP#25 Finish Drywall Ceiling at Restroom*. This RWP is less than \$5,000 so it doesn't have to go to US Cost for cost review.

Please let me know of any negotiation in price and the final amount for the Work Order.

Best regards,

Belinda Martin

Cost Engineer (305) 869-3328 <u>t-bmartin@miami-airport.com</u>

Please consider the environment before printing this e-mail. Think Green.

From: Leticia Green <<u>lgreen@mcm-us.com</u>>
Sent: Wednesday, April 21, 2021 11:03 AM
To: Negreira, Sergio (Aviation) <<u>SNegreira@miami-airport.com</u>>
Cc: Martin, Belinda (TOP) <<u>T-BMartin@miami-airport.com</u>>; McCudden, Natalie A. (Aviation) <<u>T-NMcCudden@miami-airport.com</u>>; Victor Camps <<u>vcamps@mcm-us.com</u>>; vmirabal@mcm-us.com
Subject: MCC-8-10 - U010C - MIA - Airside Operation Break Room - RWP #25

This is an EXTERNAL email. **Exercise Caution**. DO NOT open attachments or click links from unknown senders or unexpected emails. Please use your Report Spam button if this is a suspicious message.

This is an EXTERNAL email. **Exercise Caution**. DO NOT open attachments or click links from unknown senders or unexpected emails. Please use your Report Spam button if this is a suspicious message.

Hi Sergio,

Attached please find RWP #25 for your review/approval. Regards,



LETICIA GREEN PH: 305-541-0000 Ext 235 | M: (786)267-4906 | Igreen@mcm-us.com 6201 SW 70 St., 1 Floor, Miami, FL 33143 | www.mcm-us.com



Transmittal #23

MCM 6201 SW 70th Street, Suite 100 Miami, Florida 33143 Phone: (305) 541-0000 Fax: (305) 541-9771 Project: 2019-759 EXTRA#7 - MIA Airside Op Breakroom MIA - Airside Miami, Florida 33122 Phone: 3055410000

RWP #25

	то:	Sergio Negreira (Miami Dade Aviation Department)	FROM:	Leticia Green (MCM) 6201 SW 70th Street, 2nd Floor Miami, Florida 33143	
CREATED DATE: 04/21/2021 COPIES TO:		: 04/21/2021			

TRANSMIT:	VIA:	FOR:	ACTION:
Attached	Attached	Approval	

Transmittal Items

DESCRIPTION	FORMAT	DATE	COPIES
RWP #25	Other	04/21/ 2021	1

Comments

Emailed 4/21/2021



April 16, 2021

Mr. Sergio Negreira Project Manager Miami Dade Aviation Department P.O. Box 025504 Miami, Florida 33102-5504

RE: MIA – Airside Operation Break Room MCC-U-010-C

REQUEST FOR WORK ORDER/PROJECT ORDER MODIFICATION #25

Dear Mr. Negreira:

Enclosed please find our cost breakdown for necessary work to be performed at the subject project. This proposal is for work and equipment that will be needed to provide the required new wall louver system model ECD-545-MD by OnAir Mechanical Contractor. Also included in this proposal, is the cost break down by Paradise Construction for finishing the restroom ceiling in two phases.

In the course of obtaining a permit inspection, it was brought to our attention by the inspector that the existing exhaust vent could not be reused as detailed on the approved drawing because it does not meet the current building code. The inspector explained to meet the current building code a wall louver system will need to be installed instead (inspection comments enclosed).

As this wall louver system is a custom item with components that will need to be installed from the interior of the restroom, the drywall ceiling cannot be finished. Without the ceiling in the restroom being finished the floor and wall tiles cannot be grouted, nor can the restroom fixtures and trim be installed. Due to our hard deadline of May 28th 2021 and a (2) week lead time for the required wall louver system, the restroom ceiling will be done in two phases to prevent any further delay. Please find attached the breakdown of these costs.

<u>Subcontractor(s)</u> On Air Mechanical Paradise Construction	Scope of Work See Attached		<u>Amount</u> \$2,554.00 \$391.46
		Subtotal: MCC Fee (7.96%): TOTAL:	\$2,945.46 \$234.46 \$3,179.92

The attached subcontractor breakdown has been reviewed by Munilla Construction Management, LLC (MCM) and is found to be in accordance with current industry standards for the task on hand.

Once approval is finalized, please issue a Work Order/Project Order Modification reflecting the above. A change order to the above subcontractor(s) will follow from MCM.

Should you have any questions regarding this matter, please contact me as soon as possible.

Sincerely Juan Munilla MIA - MCC-8-10 General Manager

Cc: File



Project : MIA Air Side Break Room

PROPOSED CHANGE ORDER # 5

Date: 04/14/2021

BREAKDOWN

DESCRIPTION	UNIT	QTY.	M	ATERIAL	LABOR	SUBCONT.	TOTAL	08	& PROFIT	TO	T. INC. O & PROFIT
Demolition	Lot	1	\$	-	\$ 200.00	\$-	\$ 200.00	\$	30.00	\$	230.00
New wall louver	Ea	1	\$	650.00	\$ 480.00		\$ 1,130.00	\$	169.50	\$	1,299.50
New sheet metal duct	Lot	1	\$	350.00	\$ 480.00		\$ 830.00	\$	124.50	\$	954.50
Note:					\$ -		\$ -	\$	-	\$	-
As per mechanical inspector comments					\$ -		\$ -	\$	-	\$	-
					\$ -		\$ -	\$	-	\$	-
SUB TOTAL			\$	1,000.00	\$ 1,160.00	\$-	\$ 2,160.00	\$	324.00	\$	2,484.00

Approved by:

Approved	k

Date:

Labor Burden	\$ -
Insurance	\$ -
Supervision	\$ -
Material Tax	\$ 70.00
SUB TOTAL	\$ 70.00
TOTAL	\$ 2,554.00

COMPANY: Paradise Construction REFERENCE: MIA – Airside Operations Breakroom Description: Finish Drywall Ceiling at Restroom

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DATE: 4/14/2021 Change Order No. 13

CLASIFICATION	Days	HOURS Re	eg. Rate	Burden %		Uniforms	1:242E	RATE	TOTAL	
Drywall Finisher-Hand Tools		8\$	31,46	24,30% \$	7.64	\$ 0.10	\$	42.55	\$	340.40
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· · · · :	· · · · ·				TOTALI	ABOR		- 21.=95° (S.).	<u>ş</u>	340.40
CLASIFICATION		HOURS/Q	MATER	IAL RATE			onioriane. Nelectroni		TOTAL	
									\$	-
							TAX		\$ \$ 5.0000	-
				UB TOTAL						340,40
LABOR \$	340.40								s 1	
Equipment \$ SUBTOTAL \$	340.40				-	Castro			¥hI	/
0&P 15 % \$ TOTAL 5	51.06 (19)1.46	/		Para	lise Co	nstructi	n		4	
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MIAMI-DADE COUNTY §2-11.16 CODE OF MIAMI-DADE COUNTY RESPONSIBLE WAGES AND BENEFITS SCHEDULE 2021

"BUILDING CONSTRUCTION"

DRYWALL FINISHERS

Drywall Finisher - Hand Tools Drywall Finisher - Bazooka Box		20.71 21.71	1	5.80 5.80	1	4.95 9 4.95 9 31,45 32,46
\$1.00 Charge person working up to 5 employ	es		•		'	and she are the second of the second s

\$1.50 Charge person working 6 or more employees

\$1.00 General Foreman above highest paid Charge person

Apprentices:

NOTE: Apprentices will be permitted to work at these rates when they are employed pursuant to and individually registered in a legitimate apprenticeship program registered with the U. S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a state apprenticeship agency recognized by the Bureau. In Florida this agency is the Florida Department of Education, Division of Career and Adult Education, Apprenticeship Section - http://www.fldoe.org/workforce/apprenticeship. Please see pages 7-8 of the Supplemental General Conditions for more information.

1st 6 months		\$ 13.46	\$	5.80	\$ 1.50	\$
2nd 6 months		\$ 14.50	\$	5.80	\$ 1.50	\$
3rd 6 months		\$ 15.53	\$	5.80	\$ 1.50	S
4th 6 months		\$ 16.57	\$	5.80	\$ 1.50	5 23.87
5th 6 months		\$ 17.60	\$ [.]	5.80	\$ 1.50	5 24.90
6th 6 months		\$ 18.64	\$	5.80	\$ 1.50	\$ 25.94
7th and 8th 6 mont	hs	\$ 19.67	\$	5.80	\$ 1.50	\$ 26.97
	v v					

APPRENTICE RATIO: One (1) Apprentice to every one (1) Drywall Finisher

(1) Per hour health behefit includes hospitalization, medical, life, vision and dental insurance.

Scope of work under this trade includes but is not be limited to: the preparation or leveling of any surface or substrate which is to receive a coating, finishing and/or wall covering; this will include, but not be limited to, all levels of finishing and/or spackling of all surfaces, including gypsum wallboard taping and finishing, fire taping and all fire stopping systems, glaze coatings, skim coating or any other finishing system, spotting of nails, finishing of corner beads/flex beads. Patching and sanding is within the system of preparing surface for finishes. All stucco and dryvit systems.

Victor Camps

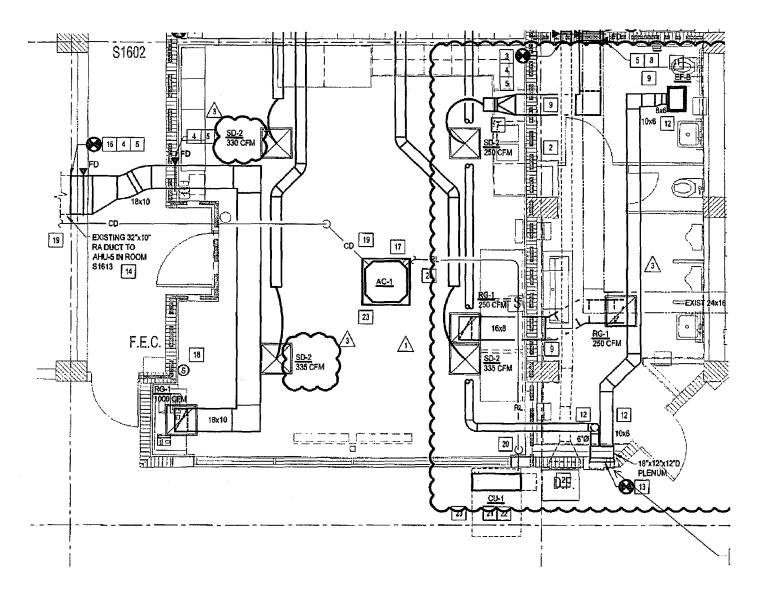
From:	Alberto Garcia <alberto@onairus.com></alberto@onairus.com>
Sent:	Monday, April 12, 2021 2:24 PM
То:	Victor Camps
Cc:	Miguel A. Perez
Subject:	MIA Airside RFI.

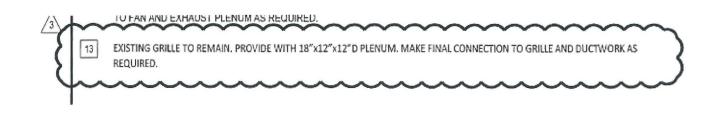
CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good afternoon Victor,

As per mechanical inspector comments today, the exhaust duct must be end on wall louver, please see attached below.

Please advise how to procced.





If you have any questions or concerns, please don't hesitate to call me.

Thank you,



e-Permitting

Search:



mlamidade.gov

Permit Inspection History

Permit Number:	2020039487						
Inspector Name:	MUNOZ, MANUEL	Request Date:	04/12/2021				
Inspection Type:	ROUGH	Inspection Date:	04/12/2021				
Disposition:	PARTIAL APPROVAL COMPLEX STRUC	Result Date:	04/12/2021				
Clerk Name:	MUNOZ, MANUEL	Inspection Time:	0				
Comments: M2.0,EXH FAN/DUCTWORK,NOTE:CHK POINT TERMINATION/LOUVER REQ							
nspector Name:	MUNOZ, MANUEL	Request Date:	04/09/2021				
Inspection Type:	ROUGH	Inspection Date:					
Disposition:	PARTIAL APPROVAL COMPLEX STRUC	Result Date:	04/09/2021				
Clerk Name:	rk Name: INTERNET REQUEST Inspection		0				
Comments:	S/A,R/A,EXH DUCTWORK,PDG F/D MANUF.INS	ALLATION.					
Inspector Name:	MUNOZ, MANUEL	Request Date:	04/08/2021				
Inspection Type:	ROUGH	Inspection Date:	04/08/2021				
Disposition:	PARTIAL APPROVAL COMPLEX STRUC	Result Date:	04/08/2021				
Clerk Name:	INTERNET REQUEST	Inspection Time:	0				
Comments:	CHK,F/D MANUF.INSTALLATION.						
Inspector Name:	MUNOZ, MANUEL	Request Date:	04/07/2020				
Inspection Type:	ROUGH	Inspection Date:	04/07/2020				
Disposition:	PARTIAL APPROVAL COMPLEX STRUC	Result Date:	04/07/2020				
Clerk Name:	MUNOZ, MANUEL	Inspection Time:	0				
Comments:	M2.0,S/A DUCTWORK 20X10/BRANCHES/OK TO	INOLU ATE DDO					

Outstanding Categories/Completion Holds

Permit Status

Page: 1

INSPECTION HISTORY INQUIRY SUCCESSFUL (NO MORE ENTRIES)

<u>BLDG Home Page</u> | <u>BLDG Main Menu</u> | <u>BLDG Permit Menu</u> | <u>BLDG Plans Processing Menu</u> | <u>Inspection Types</u> | <u>Address Format</u>

Home | About | Phone Directory | Privacy | Disclaimer



SUBMITTAL

PROJECT: MIA AIRSIDE

SUBMITTED BY:eiturralde@adehvac.com
ADE Engineered Solutions of FI
150 Albany Ave
Albany, NY 11520PHONE:516-568-6500FAX:1-516-256-3299EMAIL:eiturralde@adehvac.com

DATE: 4/13/2021

ITEMSLouversENCLOSED:ECD-545-MD

Installation Instructions ECD-545-MD sleeved installation

Attribute Attachments Louvers (ECD-545-MD)

Information is subject to change without notice or obligation.

Note: Dimensions in parentheses () are millimeters.

Project: MIA Airside Submittal Date: 4/13/2021 Submitted By: eiturralde@adehvac.com

Submittal Model ECD-545-MD Extruded aluminum louver, 5" deep, 45 degree horizontal blade General construction Dimensions: Nominal (approximately 1/2" (12) undersized) Material: Mill 6063-T5 extruded aluminum Material thickness (in): 0.081 Frame and blade attachment: Mechanically fastened Frame: 5" deep channel Blade: 45° drainable style Screen 1 configuration: Material: Aluminum; Type: Bird screen; Pattern: 1/2" x 0.063" Options Flange: Type: Flange frame, Width (in): 1.5 Sleeve: Sleeve, 16 Ratings Free area: [48" x 48" (1219 x 1219) unit]: 6.7 ft² (0.62 m²) 41.9% (1 side) Velocity @ 0.15 in.wg. Pressure Loss: 1057 fpm (5.37 m/s) 5" (127) Std. Design Load: 150 psf Model ECD-545-MD Listinas AMCA CRP Listing: 'Air, Water, Wind' AMCA: 540 enhanced (impact resistant) Performance at beginning point of water penetration Free area velocity: 1250 fpm (6.35 m/s) Air volume delivered: 9600 cfm (4.53 m³/s) Pressure loss: 0.21 in.wg. (52 Pa) 1-1/2" (35 Wind Driven Rain Performance – AMCA 500-L [29 mph, 3 in/hr] Airflow and core velocity:: 7361 CFM; 862 FPM ECD-545-MD with flange frame Effectivness Ratio (%): 99.4 Wind class: A (effectiveness, 1.000 to 0.99) Discharge class: 2 (loss coefficient = 0.3 to 0.399) Wind Driven Rain Performance – AMCA 500-L [50 mph, 8 in/hr] Airflow and core velocity:: 6068 CFM; 975 FPM Effectivness Ratio (%): 95.3 Wind class: B (effectiveness, 0.989 to 0.95)

Details

Line			Louver size (in.xxxx)	Sections		Ratings		Free	e area	Approx.
item	Тад	Qty	W×H	Wide x High	CFM	FPM	PD (in.w.g.)	ft²	%	weight (lbs)
1		1	18 x 12	1 x 1				0.31	22.1	11

This submittal sheet reflects only the construction and options selected and is not indicative of all constructions and options that are available for the product. For more information, please contact your local representative or visit us at www.pottorff.com.

Note that performance data in the details section of this submittal are calculated values, and are not AMCA certified.

Information is subject to change without notice or obligation.

Discharge class: 2 (loss coefficient = 0.3 to 0.399)

Note: $\ensuremath{\mathsf{Dimensions}}$ in parentheses () are millimeters.

Project: MIA Airside Submittal Date: 4/13/2021 Submitted By: eiturralde@adehvac.com

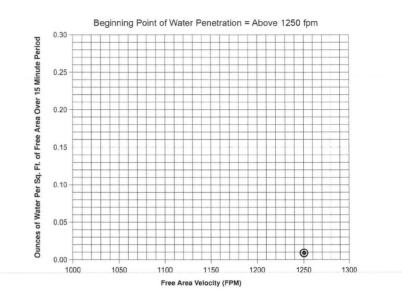
Submittal

Model ECD-545-MD Performance



Certified Ratings:

Pottorff certifies that the model ECD-545-MD shown herein is licensed to bear the AMCA seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings seal applies to air performance and water penetration ratings.



Water penetration

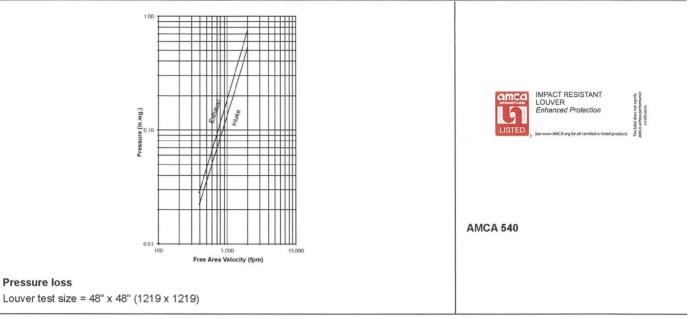
AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area and is measured through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides a method for comparing louver models and designs as to their efficiency in resisting the penetration of rainfall under specific lab conditions. Pottorff recommends that intake louvers are selected with a reasonable margin of safety below the beginning point of water penetration in order to avoid unwanted penetration during severe storm conditions.

This submittal sheet reflects only the construction and options selected and is not indicative of all constructions and options that are available for the product. For more information, please contact your local representative or visit us at www.pottorff.com.

Information is subject to change without notice or obligation.

Note: Dimensions in parentheses () are millimeters.





This submittal sheet reflects only the construction and options selected and is not indicative of all constructions and options that are available for the product. For more information, please contact your local representative or visit us at www.pottorff.com.

Information is subject to change without notice or obligation.

Note: Dimensions in parentheses () are millimeters.



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

PCI Industries Inc d/b/a Pottorff 5101 Blue Mound Road Fort Worth, TX 76106

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 ECD-545-MD Aluminum Louver w/ or w/o CD-51 Damper

APPROVAL DOCUMENT: Drawing No. **ECD-545-MD** NOA, titled "ECD-545-MD", sheets 1 through 17 of 17, dated 08/30/2018, prepared by the manufacturer, 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, city, state, 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 renews and revises NOA # 17-0227.07 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.



12/27/2018

NOA No. 18-1120.06 Expiration Date: October 23, 2023 Approval Date: January 3, 2019 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's

A. DRAWINGS "Submitted under NOA # 17-0227.07"

1. Drawing No. ECD-545-MD NOA, titled "ECD-545-MD", sheets 1 through 19 of 19, dated 05/08/2014, with revision 3 dated 01/26/2017, prepared by the manufacturer, signed and sealed by L. David Rice, P.E.

B. TESTS "Submitted under NOA # 14-0714.03"

- 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 installation diagram of Model ECD-545-MD Aluminum Louvers, prepared by Architectural Testing, Inc, Test Report No. **C8133.01-801-18**, dated 04/10/2014, with revision 2 dated 01/27/2015, signed and sealed by Shawn G. Collins, P.E.

- 2. 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 installation diagram of Model ECD-545-MD Aluminum Louvers, prepared by Architectural Testing, Inc, Test Report No. C8133.01-801-18, dated 04/10/2014, signed and sealed by Vinu J. Abraham, P.E.

 Test report on High Velocity Wind Driven Rain Resistance per AMCA 550-09 of a Model ECD-545-MD Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. C3811.01-801-18, dated 12/18/2012, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA # 11-0429.04"

- 4. 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 installation diagram of a Model ECD-545-MD Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. A1620.01-801-18, dated 10/18/2010, signed and sealed by Joseph A. Reed, P.E.

"Submitted under NOA # 09-1015.08"

5. Test report on Wind Driven Rain Resistance per FBC TAS 100(A)-95 (modified by Checklist # 0240) along with marked-up drawings and installation diagram of Model ECD-545-MD Fixed Aluminum Louver with a CD-55 Damper, prepared by Architectural Testing, Inc, Test Report No. 92027.01-109-18, dated 09/09/2009, with Revision 1 dated 01/11/2010, signed and sealed by Michael D. Stremmel, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 18-1120.06 Expiration Date: October 23, 2023 Approval Date: January 3, 2019

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (Cont.)

"Submitted under NOA # 08-0528.04"

- 6. 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 Model ECD-545-MD Aluminum Louver, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-0399-0116-07, dated 02/27/2008, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS "Submitted under NOA # 14-0714.03"

1. ECD-545-MD Louver calculations prepared by Rice Engineering, dated 01/21/2015, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 11-0429.04"

2. ECD-545-MD Louver calculations prepared by Rice Engineering, dated 04/21/2011, signed and sealed by L. David Rice, 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 # 15-0428.02"

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Rice Engineering, dated 04/17/2015, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 14-0714.03"

- 2. Statement letter of code conformance to 2010 FBC issued by Rice Engineering, dated 11/13/2013, signed and sealed by L. David Rice, P.E.
- 3. No financial interest letter issued by Rice Engineering, dated 03/30/2011, signed and sealed by L. David Rice, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 18-1120.06 Expiration Date: October 23, 2023 Approval Date: January 3, 2019

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New evidence submitted

A. DRAWINGS

1. Drawing No. ECD-545-MD NOA, titled "ECD-545-MD", sheets 1 through 17 of 17, dated 08/30/2018, prepared by the manufacturer, signed and sealed by Theodore Berman, P.E.

B. TESTS

- Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94

 Large Missile Impact Test per FBC, TAS 201-94 (Missile Level 'E')
 Cyclic Wind Pressure Loading per FBC, TAS 203-94

 along with installation diagram of Model ECD-545-MD Aluminum Louvers, prepared by UL LLC, Test Report No. SV30902-20180808, dated 09/13/2018, signed and sealed by Alexis Spvrou, P.E.
- 2. Test report on Wind Driven Rain Resistance per FBC TAS 100(A)-95 on an ECD-545-MD Louver with a CD-51 Damper, prepared by Intertek, Test Report No. **I8042.01-801-44 R0**, dated 09/05/2018, signed and sealed by Tyler Westerling, P.E.
- 3. Test report on Wind Driven Rain Resistance per FBC AMCA 550-15 on an ECD-545-MD Louver with a CD-51 Damper, prepared by Intertek, Test Report No. **I8042.02-801-44 R0**, dated 09/07/2018, signed and sealed by Tyler Westerling, P.E.

C. CALCULATIONS

1. ECD-545-MD louver structural calculations prepared by the manufacturer, dated 07/17/2018, signed and sealed by Theodore Berman, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

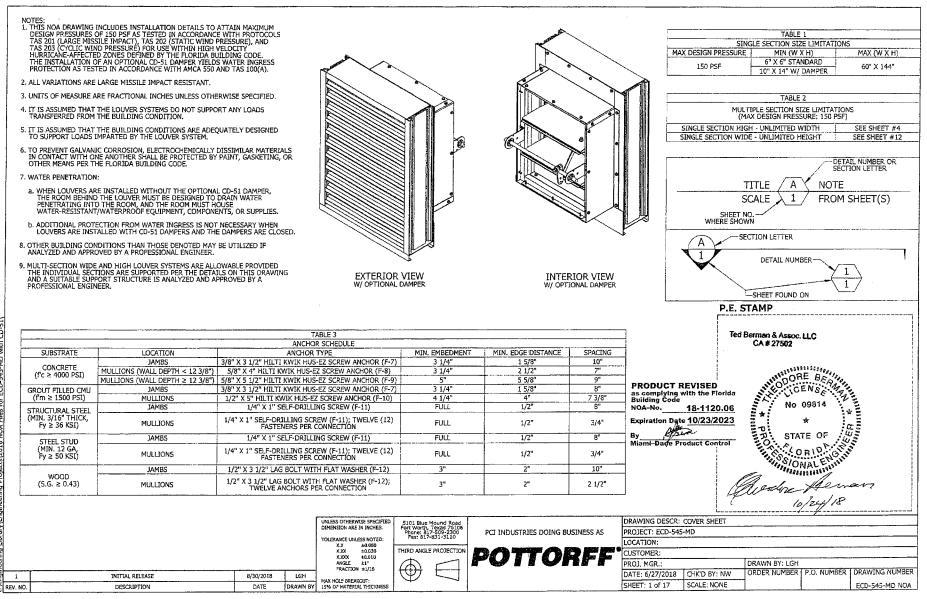
1. None.

F. STATEMENTS

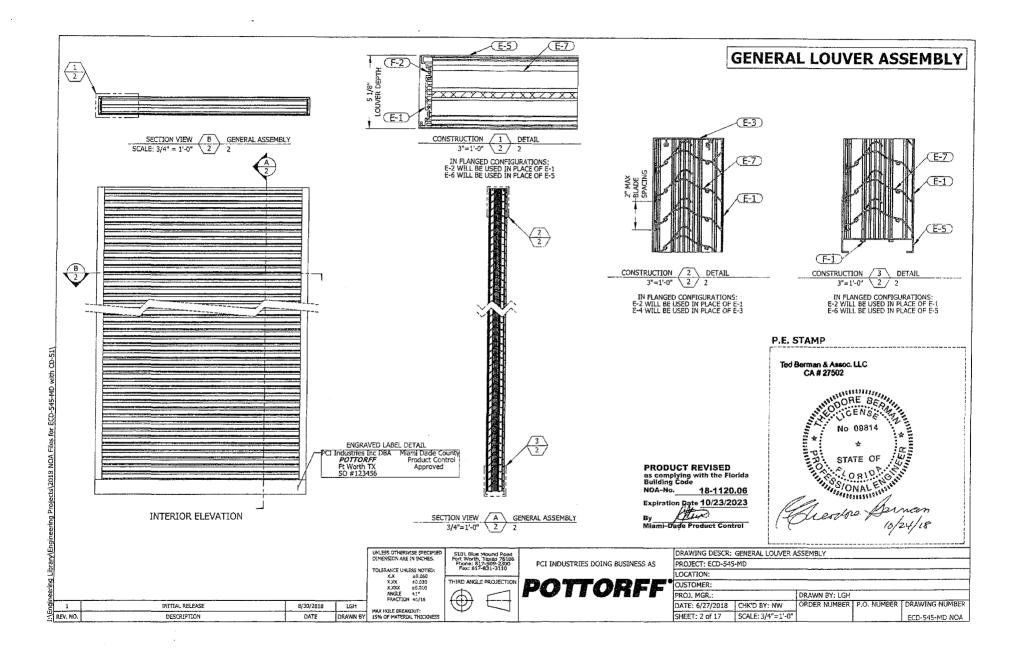
1. Statement letter of code conformance to the 6th edition (2017) FBC and of no financial interest, dated 12/19/2018, issued, signed and sealed by Theodore Berman, P.E.

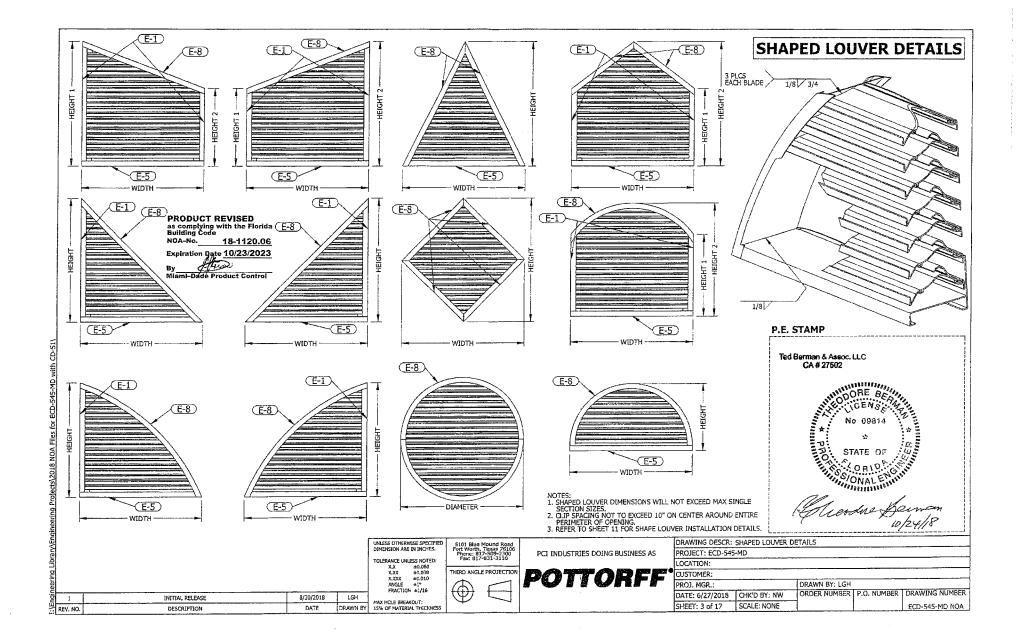
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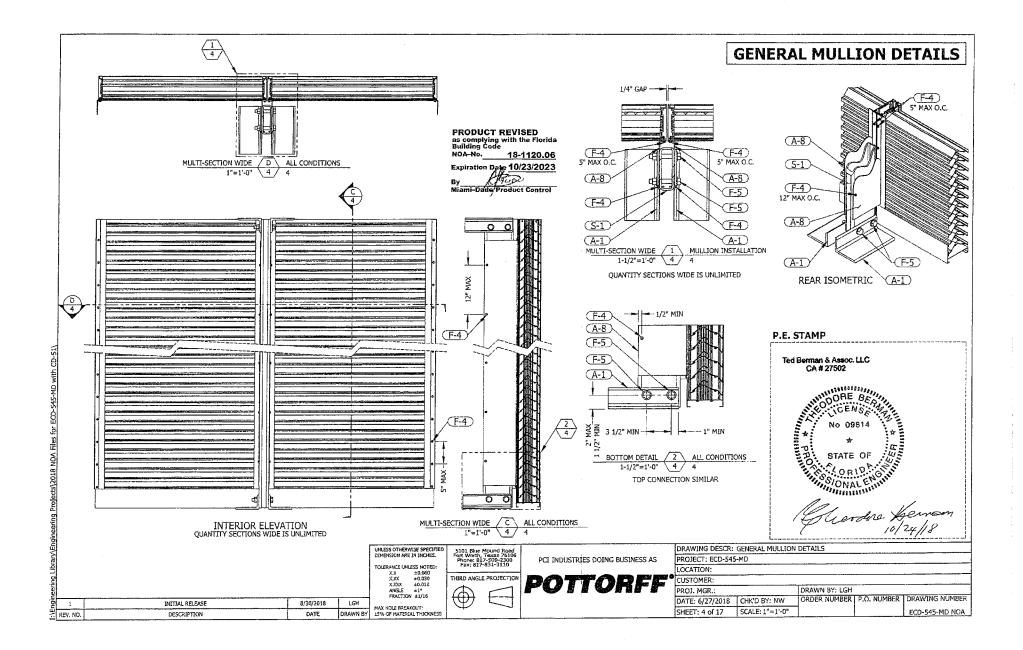
Carlos M. Utrera, P.E. Product Control Examiner NOA No. 18-1120.06 Expiration Date: October 23, 2023 Approval Date: January 3, 2019

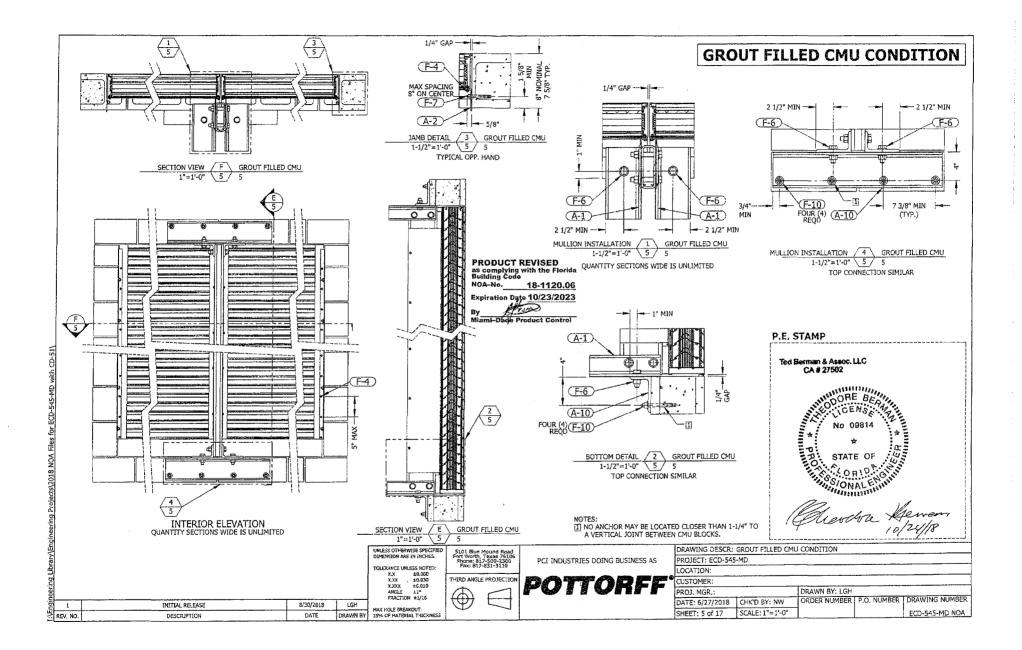


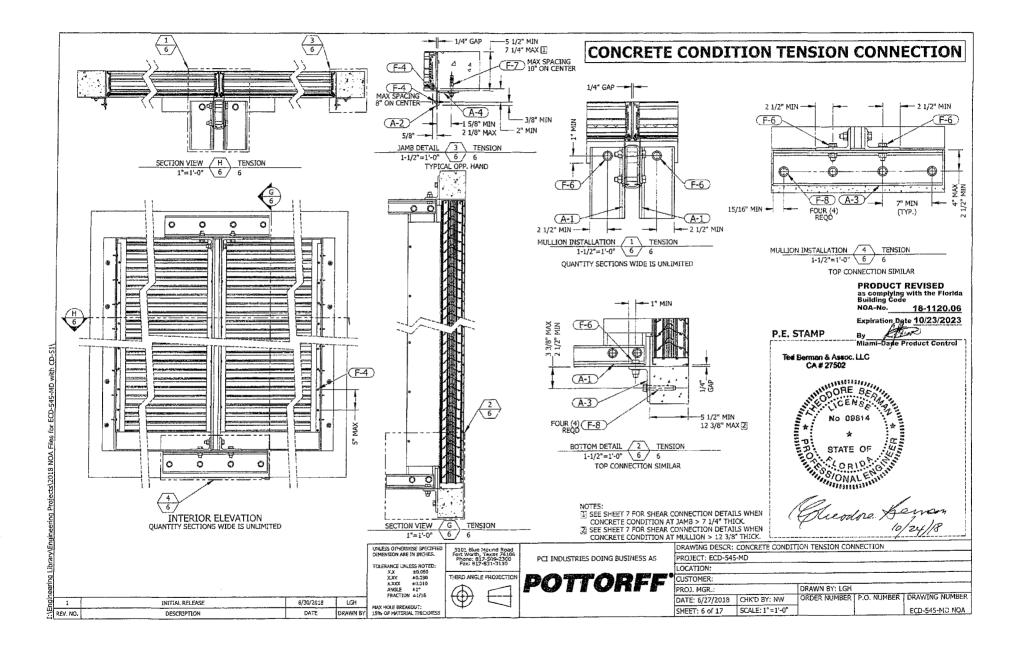
Projects/2018 NOA Files for ECD-545-MD with CD-51/ rring Library/Engineering

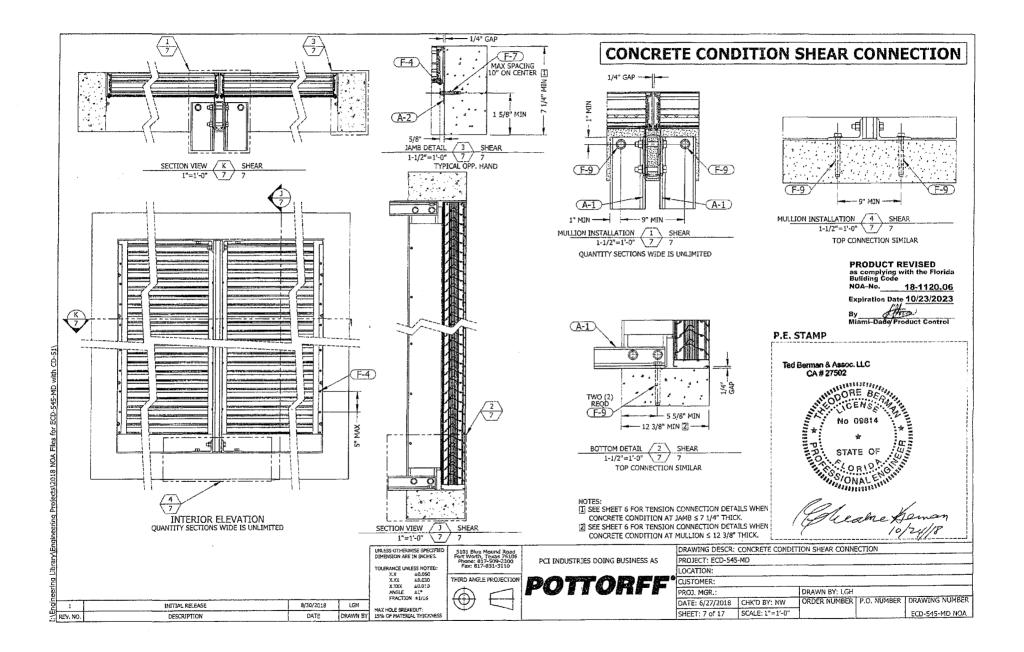


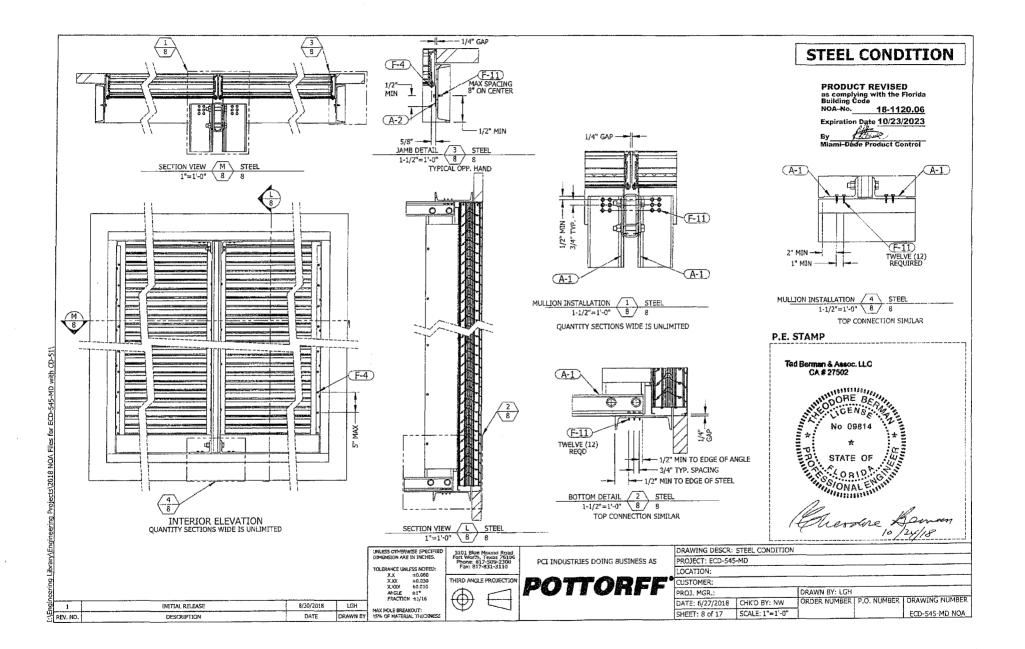


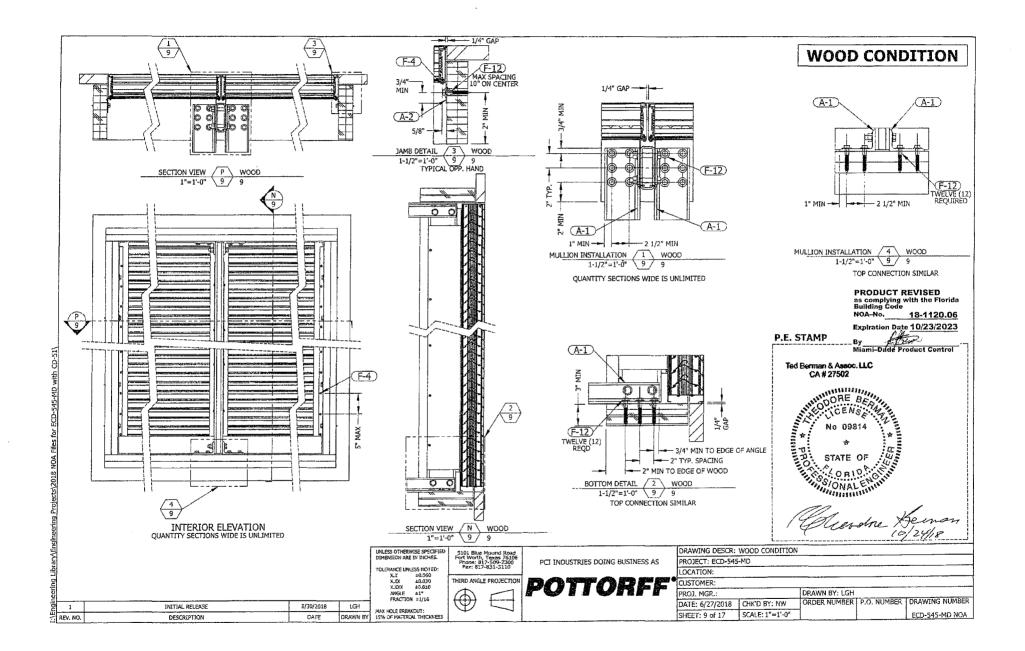


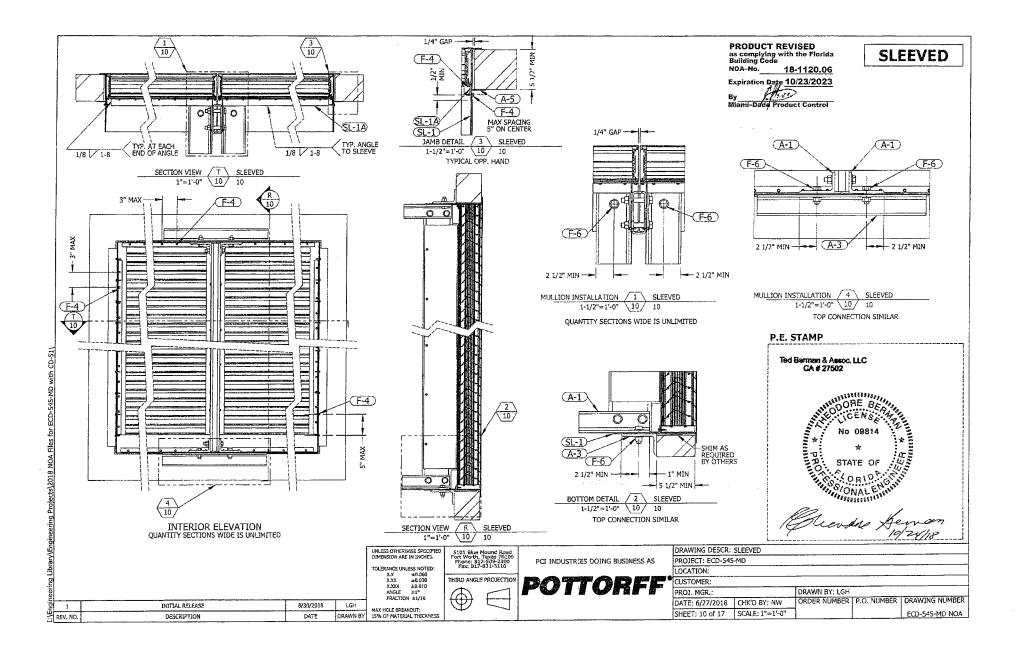


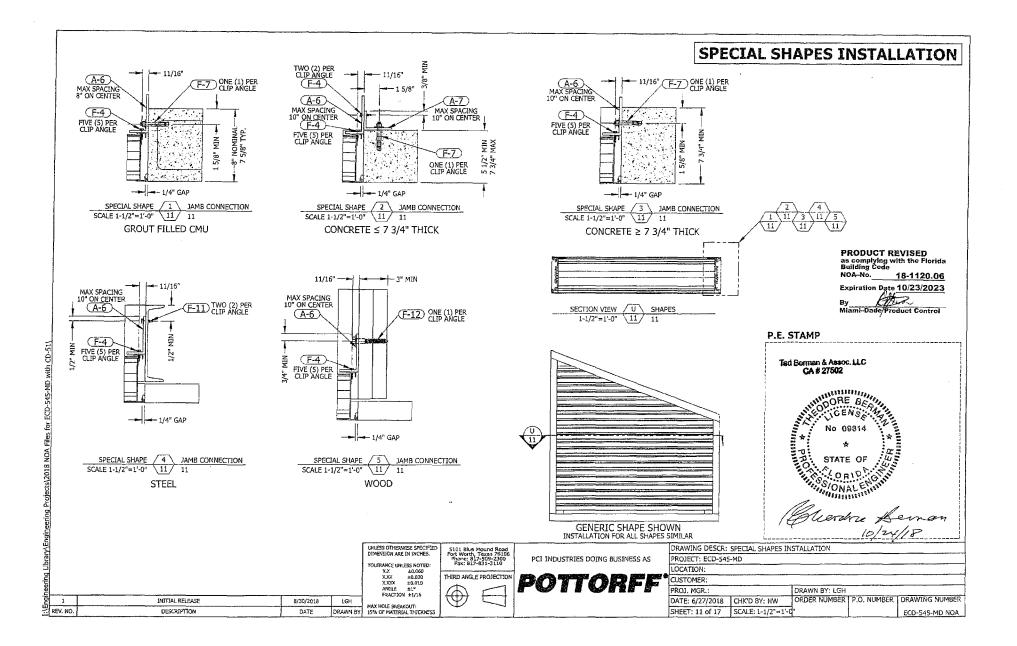


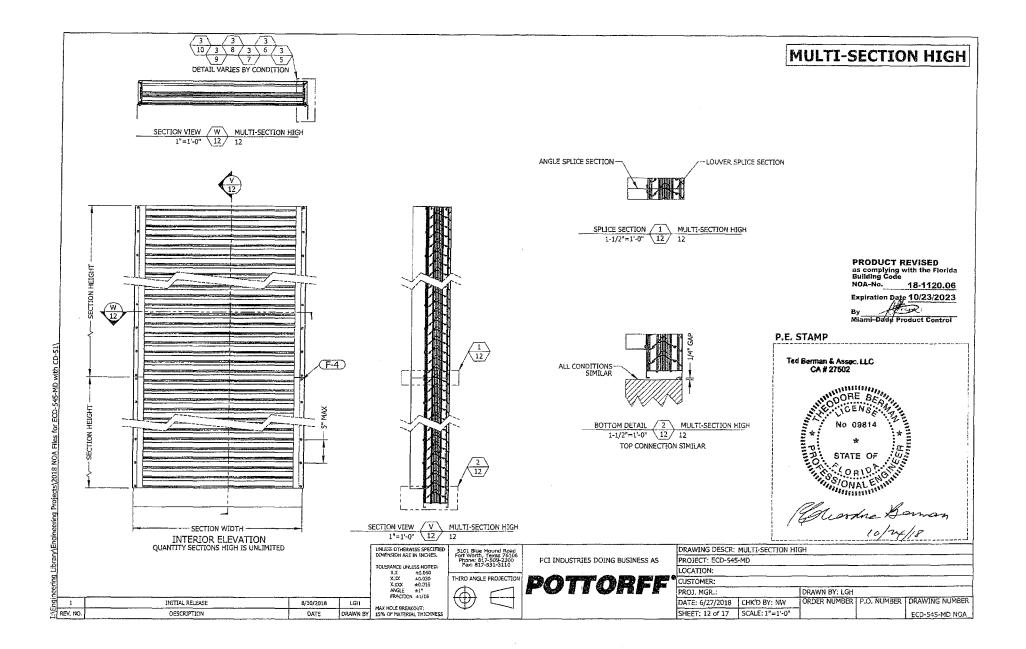


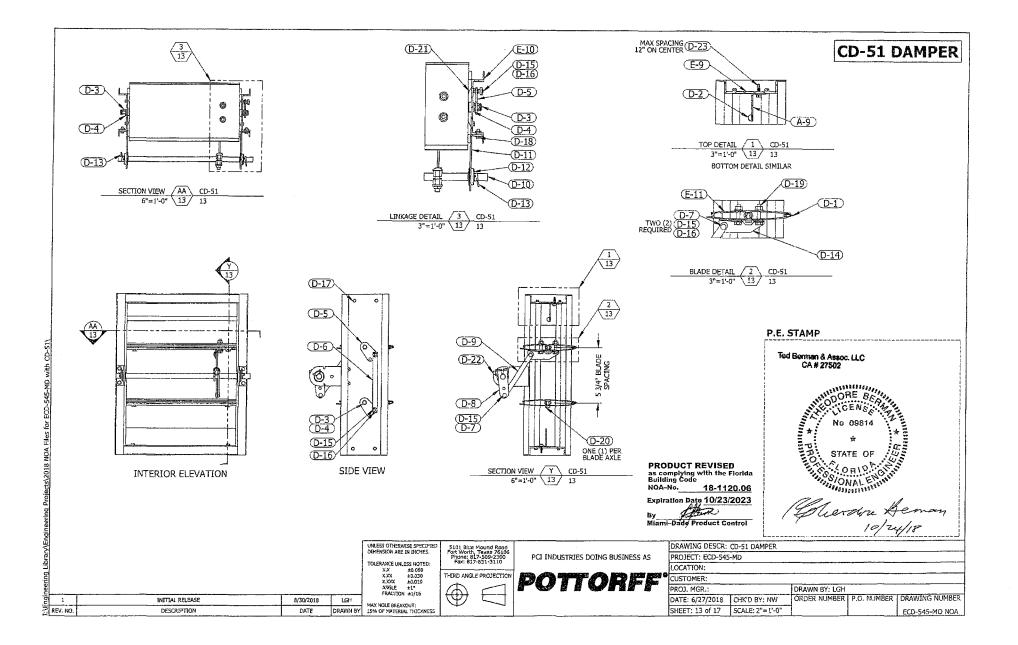


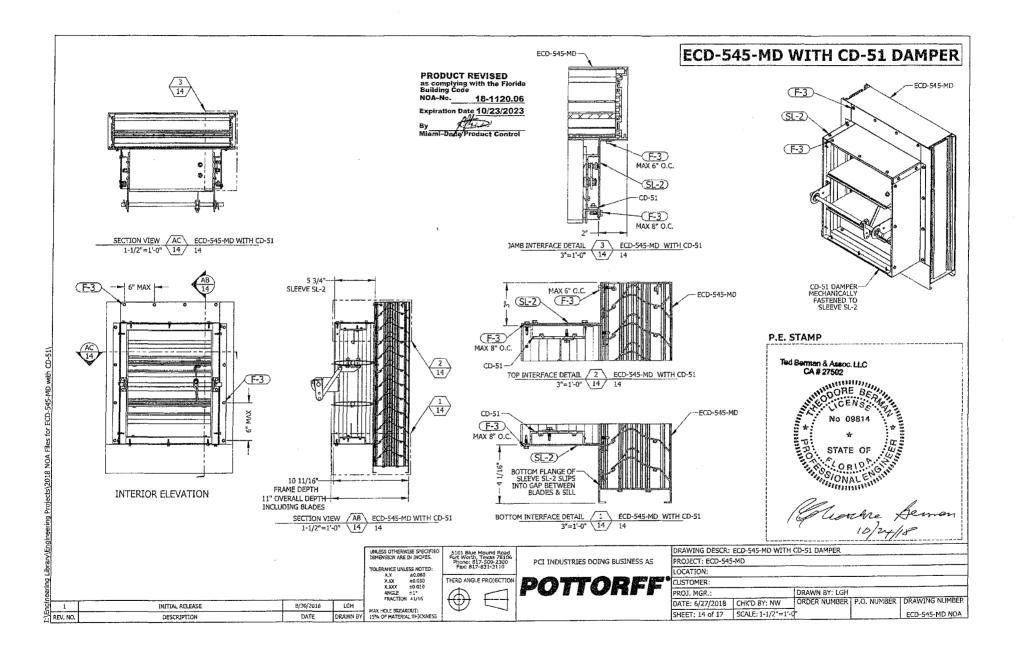


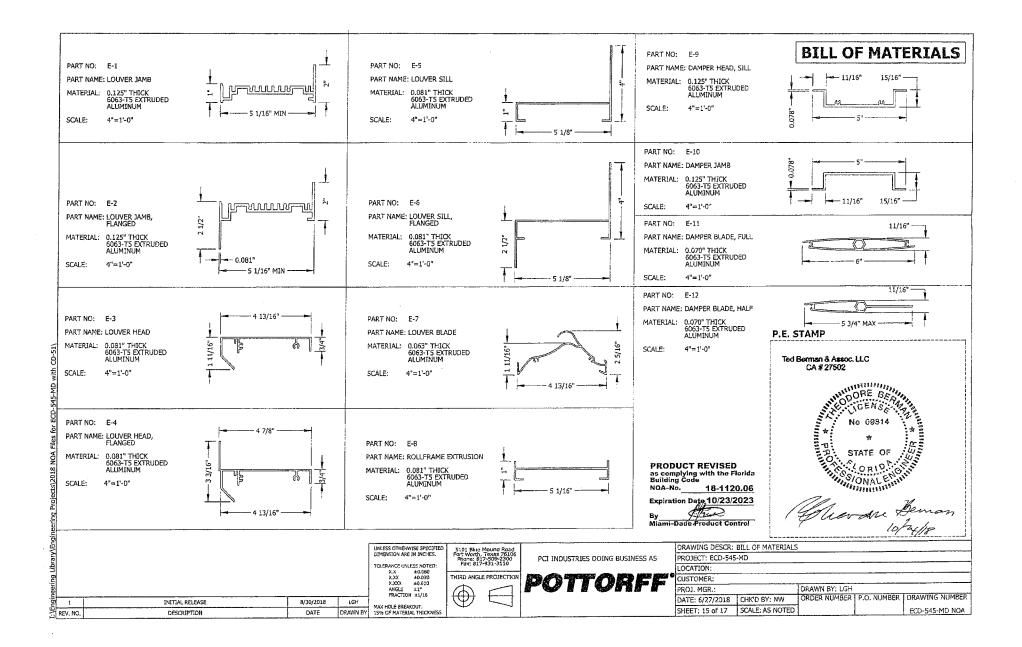


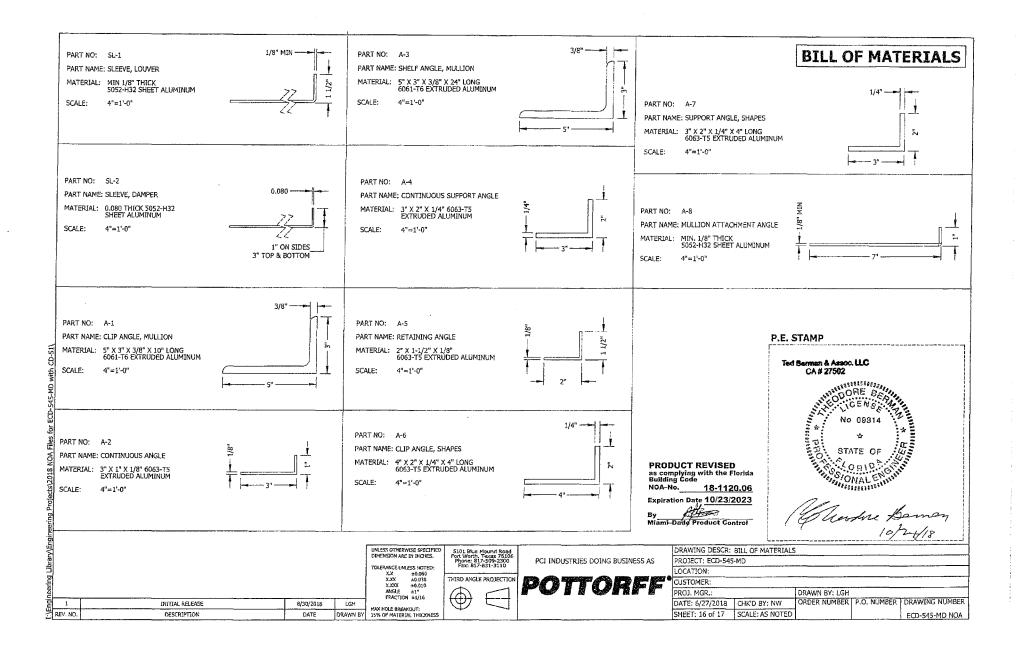


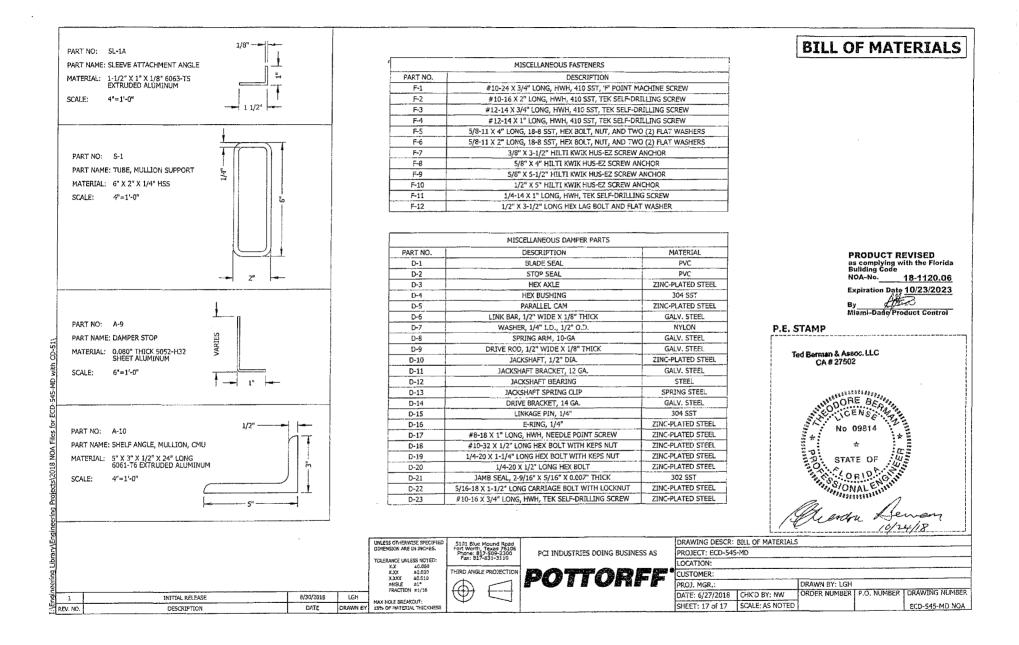












IMPORTANT: READ ALL INSTRUCTIONS BEFORE PROCEEDING WITH INSTALLATION

<u>General</u>

The following guidelines provide basic assembly and installation instructions for ECD-545-MD extruded aluminum louvers mounting to various building conditions using the sleeved installation method. The ECD-545-MD is designed to withstand severe weather effects typically associated with hurricanes, and has been tested for resistance to impacts, cyclic fatigue, and static pressures up to 150 psf.

- 1. For additional details, refer to the product drawing package posted at www.pottorff.com as well as any job-specific submittal drawings when provided.
- 2. Carefully lift louver sections by the frames using multiple lifting points as necessary to avoid distortion, racking, or other damage. Do not apply excessive force to a single blade, and NEVER LIFT UNITS BY LOUVER BLADES. Take necessary precautions to prevent marring the louver finish.
- 3. While installation is underway and before louver sections are permanently fastened in place, Pottorff recommends that the installer employ temporary straps or bracing (by others) to prevent units from shifting unexpectedly.
- 4. All gaskets and caulk are supplied by others.

Preparation

Louvers and Hardware:

- 1. Locate all crates, boxes, cartons, etc.
- Remove louvers from packaging, inspect for damage, confirm quantities and sizes with packing list, and organize parts in order of installation. To verify installation hardware quantities, refer to Table 1. Installation hardware will typically be shipped in a separate box.
- Notify your Pottorff representative immediately of any shortages or shipping damage.

Openings:

- 1. Inspect openings for damage, repair as needed, and remove any obstructions or debris.
- 2. Prior to installation, verify that openings are square and plumb and the louvers will fit properly.

Table 1: Installation Hardware. Sleeved

Part	Description		
A-1	Mullion Clip Angle (5" x 3" x 3/8" x 10" - Long)		Included for multi-wide assemblies only
A-3	Mullion Retaining Angle (5" x 3" x 3/8" x 24" Long)		Included for multi-wide assemblies only
A-5	Retaining Angle (1-1/2" x 2" x 1/8" Varying Length)		Included
A-8	Mullion Attachment Angle (7" x 1" x 1/8" x Varying Length)		Included for multi-wide assemblies only
S-1	Mullion Support Tube 6" x 2" x 1/4" x Varying Length)		Included for multi-wide assemblies only
F-4	#12-14 x 1" Hex Head Self Drilling Machine Screw	Comme	Included
F-5	5/8-11 x 4" Hex Bolt with Nut and two (2) Flat Washers	0-000	Included for multi-wide assemblies only
F-6	5/8-11 x 2" Hex Bolt with Nut and two (2) Flat Washers	000	Included for multi-wide assemblies only

Single Section Louver Installation

- Lift the louver section (with attached sleeve) up and slide it into the wall opening as shown in Figure 1. The back of the sleeve should project through the wall into the building interior, while the front flange will rest directly against the outside face of the wall.
- 2. As necessary, shim around the perimeter to level the louver and to maintain an approximate 1/4" clearance between the louver frame and the edges of the opening (shims are by others).
- Along the sides of the opening, place 2" x 1 1/2" retaining angles (A-5) against the rear face of the wall, and use #12-14 x 1" selfdrilling screws (F-4) to fasten the angles to the sleeve.
 - a. Each length of angle will arrive with one side pre-drilled with clearance holes for #12 fasteners. These holes are included to facilitate attachment to the sleeve. The angle leg without holes should sit against the wall.
 - b. No direct anchorage to the building substrate is necessary. In effect, the wall is "sandwiched" between the sleeve flange in front and the continuous angles behind.
- 4. Install backer rod and caulk around the perimeter of the louver, as required.

Multiple Section Louver Installation

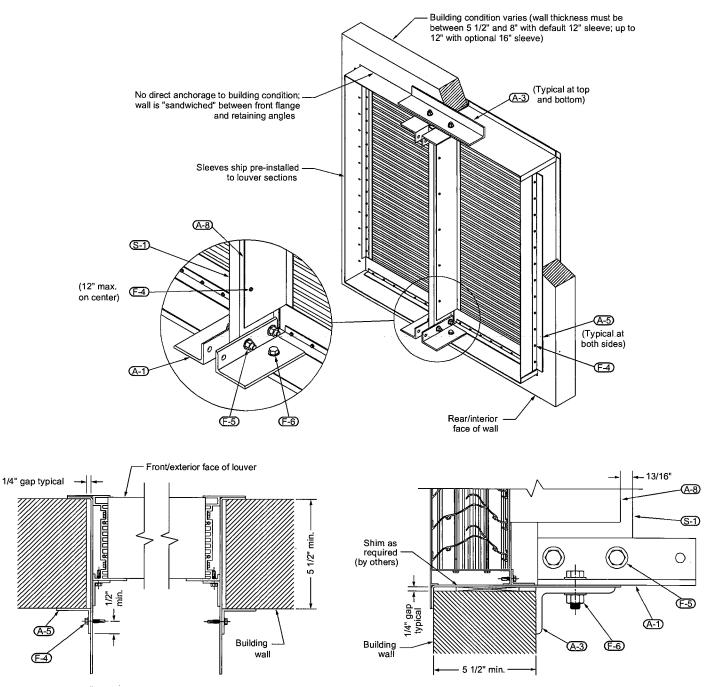
- First, determine how the individual louver sections will be located relative to each other. Every section is shipped with a factory-attached sleeve, but end sections will be sleeved on three sides, while center sections (if present) will have sleeve only on the top and bottom.
- 2. Lay out the louver sections face down in the approximate order in which they will be positioned within the opening. At mullion joints between adjacent sections, use #12-14 x 1" self-drilling screws (F-4) to install mullion attachment angles (A-8) to the back of the louver frame jambs. Use Figures 3 and 4 as a reference.
 - a. Align the edge of the 1" angle leg with the edge of the frame jamb. The bottom end of the angle will sit directly against the top of the frame sill.
 - b. Screws will run through the existing clearance holes in the mullion attachment angle into the louver frame.
- 3. Lift each louver section up and place it within the opening as shown in Figure 1. The back of the sleeve should project through the wall into the building interior, while the front flange will rest directly against the outside face of the wall.
 - a. Shim as necessary to level the louver sections and to maintain an approximate 1/4" clearance between the louver frames and the edges of the opening, and approximately 1/4" between sections (shims by others).
 - b. Secure with temporary straps or bracing as needed.
- Locate the mullion clip angles (A-1) and drill an 11/16"-diameter hole in the 5" leg of each angle.
 - a. Use Figure 2 as a guide for hole placement.
 - b. Note that Dimension 'A' in Figure 2 is variable and depends on the overall thickness of the wall into which the louver will be installed. To find Dimension A, measure the wall thickness and subtract 4 1/8".
 - c. For example, if the building wall is 8" thick, Dimension A should be 3 7/8".
- 5. Locate each mullion support tube (S-1), and fasten pairs of mullion clip angles (A-1) to the ends of the tube using 5/8" x 4" bolts, nuts, and flat washers (F-5) as shown in Figure 2. For an easier fit during installation, fully tighten only the bolts at the bottom end of the tube. Loosely connect the bolts at the top, but wait to tighten them until the mullion tube has been placed in its final location.
- Lift each mullion tube (with attached clip angles) up and fasten it to the mullion attachment angles (A-8) using #12-14 x 1" self-drilling screws (F-4). Use Figures 2 and 4 for reference.
 - a. Screws should be located no more than 12" on center, 6" from each end of the angle, and at least 1/2" from any edge.
 - b. Drill pilot holes as necessary. To ensure proper thread engagement, pilot hole diameters must not exceed 3/16".
- 7. Seal the entire length of the joints in the sleeve between adjacent. louver sections using caulk, gasket, or other means (by others).
- 8. Using the 11/16" clearance holes in the mullion clip angles (A-1) as a guide, match-drill 11/16" holes through the sleeve at each mullion connection.

- Above and below each mullion joint, place a mullion retaining angle (A-3) against the rear face of the wall, and use 5/8"-11 x 2" bolts, nuts, and washers to fasten it to the mullion clip angles (A-1) as shown in Figure 1.
 - a. Mullion retaining angles will arrive with one side pre-drilled with clearance holes for 5/8" bolts. The angle leg without holes should sit against the wall.
 - b. Pre-drilled holes in the mullion retaining angles should align with field-drilled holes in the clip angles and sleeve.
 - c. Once all mullion retaining angles have been installed, any temporary straps or bracing may be removed.

10. Finish by installing backer rod and caulk in the following locations:

- a. All vertical joints between sections
- b. Around the perimeter of the opening

Figure 1: Sleeved Installation



Section Detail at Jamb Connections

Section Detail at Mullion Connections

. .

Figure 2: Mullion Support Assembly

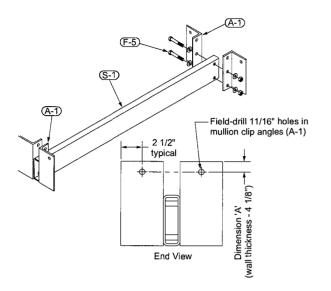


Figure 4: Mullion Section Detail

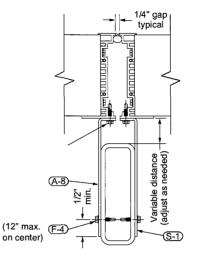
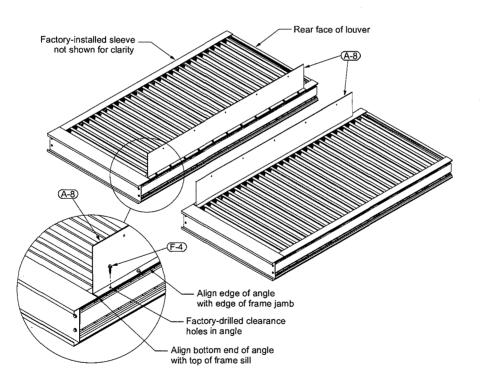


Figure 3: Installation Mullion Attachment Angles



Transmittal

PROJECT N	AME <u>MIA-</u>	Airside Operatio	PROJECT No. U010C					
FI	ROM Natali	e McCudden	TRANSMITTAL No.					
	TO Docur	ment Control	DATE May 17, 2021					
REFERE	REFERENCE Fully Executed Project Order Modification #5							
COF SER CON SHC SAV PRC SPE REP	Corwarding to RESPONDE VICE/WORK ITRACT DOC OP DRAWING IPLES DJECT PRINT CIFICATION ORTS	Medium X ORIGINALS REPRODUCTIONS COPIES D						
COPIES	COPIES ITEM DATED DESCRIPTION							
1	1	4/26/2021	U010C – Fully Executed Project Order M	lodification #5				
SENT VIA: REMARKS	Facsimi		Iail Courier Interoffice Delivery SIGNED: Natalia McCudde, Printed Name Natalie McCudden	n				
Distribution: Document Control - Original Enrique Perez – MDAD Juan Munilla – MCM Virginia Mirabal – MDAD Elizabeth Ramos - MDAD Jorge Gonzales - MDAD Maribel Westgate – MDAD Sergio Negreira - MDAD Mayra Ramirez – MDAD Lourdes Larrea – HNTB Maritza Casas – HNTB Natalie McCudden - PCI Belinda Martin - PCI Barbara Gonzalez - PCI								

Please acknowledge receipt by signing transmittal.

Received by: