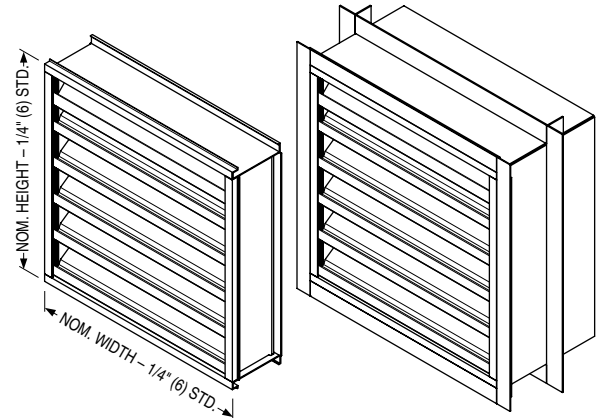
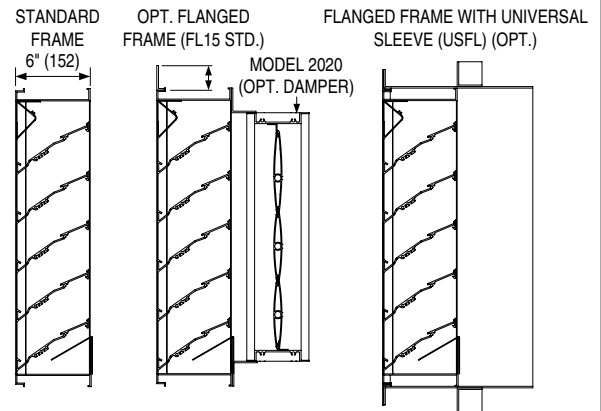


**QUALIFICATIONS:**

- Miami-Dade County NOA No. : 24-0516.04
- Florida Product Approval No. : 28078.3
- Texas Department of Insurance Evaluation ID : LVR-27
- Tested in accordance with: TAS-100A (Wind-Driven Rain [with optional Model 2020 damper in closed position]), TAS-201 (Large Missile Impact Test), TAS-202 (Uniform Static Air Pressure Test) and TAS-203 (Cyclic Wind Pressure Loading Test).
- AMCA 500-L (Water Penetration, Air Performance).
- AMCA 540 (Wind-Borne Debris Impact Test [Enhanced "Level E" Protection]).
- AMCA 550 (High Velocity Wind-Driven Rain Resistance Test [with optional Model 2020 damper in closed position]).
- Wind load rating +/- 150 PSF.


**STANDARD CONSTRUCTION:**

- FRAME:** 6" (152) deep, Type 6063-T6 extruded aluminum, .120" (3.05) nominal wall thickness. Integral downspouts and caulking slot provided.
- BLADES:** Type 6063-T6 extruded aluminum, .100" (2.54) nominal wall thickness, with reinforcing bosses.
- BLADE ANGLE:** Fixed at 37.5 degrees.
- BLADE SPACING:** Approximately 4" (102) on centers.
- BLADE SUPPORT:** Concealed type, factory installed on rear of louver. Reinforced with 2" x 2" (51 x 51) angle (adds approximately 2" [51] to overall louver depth).
- SCREEN:** 3/4" x .050 (19 x 1.27) expanded, flattened aluminum bird screen in removable frame, inside (rear) mount (adds approx. 3/8" [10] to louver depth).
- FINISH:** Mill.
- MINIMUM SIZE:** 12" W x 12" H (305 x 305).
- MAX. SINGLE SECTION SIZE:** 72" W x 120" H (1829 x 3048). 60 sq. ft. (5.6 m<sup>2</sup>) (36" W x 120" H [914 x 3048] with optional Model 2020 damper). Larger louvers will require field assembly of smaller sections.
- MAXIMUM SIZE:** Unlimited Width x 120" H (3048).


**OPTIONS:**

- ☐ **FL15** Flanged Frame, 1 1/2" (38).
- ☐ **FL20** Flanged Frame, 2" (51).
- ☐ **USFL** Universal Sleeve/Flanged Frame.
- ☐ **BSSS** Type 304 S.S. Bird Screen.
- ☐ **BSN** No Bird Screen.
- ☐ **ISA** Aluminum Insect Screen.
- ☐ **ISSS** Type 304 S.S. Insect Screen.
- ☐ **ESI** Extended Sill.
- ☐ **PASI** Sill Pan.
- ☐ **Other:** \_\_\_\_\_.

**OPTIONAL FINISHES:**

- ☐ **PC3** Powder Coat AAMA 2603. Color: \_\_\_\_\_.
- ☐ **PC4** High Performance Powder Coat AAMA 2604 (Equivalent to 50% Kynar<sup>®</sup>). Color: \_\_\_\_\_.
- ☐ **PC5** Fluoropolymer Powder Coat AAMA 2605 (Equivalent to 70% Kynar<sup>®</sup>). Color: \_\_\_\_\_.
- ☐ **PCC** Prime Coat.
- ☐ **AN04** Clear Anodized 204-R1.
- ☐ **AN15** Clear Anodized 215-R1.
- ☐ **ANLB** Light Bronze.

- ☐ **ANMB** Medium Bronze.
- ☐ **ANDB** Dark Bronze.
- ☐ **ANBK** Black.

**OPT. FACTORY MOUNTED 2020 CONTROL DAMPER:**

- Extruded Aluminum
- Opposed Airfoil Blades
- Concealed Linkage
- Silicone Blade Seal
- Cambered Stainless Steel Jamb Seals
- 1/2" (13) Plated Steel Axles

**SCHEDULE TYPE:**
**PROJECT:**
**ENGINEER:**
**CONTRACTOR:**

For Installation Instructions, see approved NOA.  
 Page 1 of 3 Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
8 - 23 - 24	1600F	5 - 23 - 24	1606DHPM



**EXTRUDED ALUMINUM STATIONARY LOUVER**  
**MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED**  
**HIGH PERFORMANCE DRAINABLE BLADE**  
**6" (152) DEEP • HORIZONTAL BLADE • PERFORMANCE DATA**  
**MODEL: 1606DHPM**

**FREE AREA in Square Feet and Square Meters**

		Width in Inches and Meters											
		12	18	24	30	36	42	48	54	60	66	72	
Height in Inches and Meters	12	0.31	0.51	0.70	0.89	1.09	1.28	1.48	1.67	1.87	2.06	2.25	
	0.30	0.03	0.05	0.07	0.08	0.10	0.12	0.14	0.16	0.17	0.19	0.21	
	18	0.60	0.98	1.35	1.73	2.11	2.48	2.86	3.23	3.61	3.99	4.36	
	0.46	0.06	0.09	0.13	0.16	0.20	0.23	0.27	0.30	0.34	0.37	0.41	
	24	0.90	1.47	2.03	2.60	3.16	3.73	4.29	4.85	5.42	5.98	6.55	
	0.61	0.08	0.14	0.19	0.24	0.29	0.35	0.40	0.45	0.50	0.56	0.61	
	30	1.19	1.93	2.68	3.42	4.16	4.90	5.64	6.39	7.13	7.87	8.61	
	0.76	0.11	0.18	0.25	0.32	0.39	0.46	0.52	0.59	0.66	0.73	0.80	
	36	1.33	2.16	3.00	3.83	4.66	5.49	6.32	7.15	7.98	8.81	9.65	
	0.36	0.12	0.20	0.28	0.36	0.43	0.51	0.59	0.66	0.74	0.82	0.90	
	42	1.77	2.87	3.97	5.07	6.17	7.27	8.37	9.47	10.57	11.67	12.78	
	1.07	0.16	0.27	0.37	0.47	0.57	0.68	0.78	0.88	0.98	1.08	1.19	
	48	2.05	3.33	4.61	5.89	7.17	8.45	9.65	11.01	12.29	13.57	14.85	
	1.22	0.19	0.31	0.43	0.55	0.67	0.79	0.90	1.02	1.14	1.26	1.38	
	54	2.34	3.80	5.26	6.73	8.19	9.65	11.11	12.57	14.03	15.49	16.95	
	1.37	0.22	0.35	0.49	0.62	0.76	0.90	1.03	1.17	1.30	1.44	1.57	
	60	2.64	4.28	5.92	7.57	9.21	10.86	12.50	14.14	15.79	17.43	19.07	
	1.52	0.24	0.40	0.55	0.70	0.86	1.01	1.16	1.31	1.47	1.62	1.77	
	66	2.92	4.74	6.56	8.39	10.21	12.03	13.85	15.67	17.49	19.31	21.13	
	1.68	0.27	0.44	0.61	0.78	0.95	1.12	1.29	1.46	1.63	1.79	1.96	
	72	3.21	5.22	7.22	9.22	11.23	13.23	15.24	17.24	19.24	21.25	23.25	
	1.83	0.30	0.48	0.67	0.86	1.04	1.23	1.42	1.60	1.79	1.97	2.16	
	78	3.50	5.68	7.87	10.05	12.23	14.41	16.60	18.78	20.96	23.14	25.33	
	1.98	0.33	0.53	0.73	0.93	1.14	1.34	1.54	1.74	1.95	2.15	2.35	
	84	3.79	6.16	8.52	10.89	13.25	15.61	17.98	20.34	22.71	25.07	27.43	
	2.13	0.35	0.57	0.79	1.01	1.23	1.45	1.67	1.89	2.11	2.33	2.55	
	90	4.08	6.63	9.17	11.72	14.26	16.81	19.35	21.89	24.44	26.98	29.53	
	2.29	0.38	0.62	0.85	1.09	1.32	1.56	1.80	2.03	2.27	2.51	2.74	
	96	4.37	7.09	9.82	12.54	15.27	17.99	20.71	23.44	26.16	28.89	31.61	
	2.44	0.41	0.66	0.91	1.17	1.42	1.67	1.92	2.18	2.43	2.68	2.94	
	102	4.66	7.57	10.47	13.38	16.28	19.19	22.09	25.00	27.90	30.81	33.71	
	2.59	0.43	0.70	0.97	1.24	1.51	1.78	2.05	2.32	2.59	2.86	3.13	
	108	4.95	8.04	11.12	14.21	17.29	20.38	23.46	26.55	29.63	32.72	35.80	
	2.74	0.46	0.75	1.03	1.32	1.61	1.89	2.18	2.47	2.75	3.04	3.33	
	114	5.24	8.51	11.78	15.04	18.31	21.58	24.84	28.11	31.38	34.65	37.91	
	2.90	0.49	0.79	1.09	1.40	1.70	2.00	2.31	2.61	2.92	3.22	3.52	
	120	5.53	8.98	12.42	15.87	19.31	22.76	26.21	29.65	33.10	36.54	39.99	
	3.05	0.51	0.83	1.15	1.47	1.79	2.11	2.43	2.75	3.07	3.40	3.72	

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 2 of 3  
Dimensions are in inches (mm).

**DATE**

**B SERIES**

**SUPERSEDES**

**DRAWING NO.**

8 - 23 - 24

1600F

5 - 23 - 24

1606DHPM



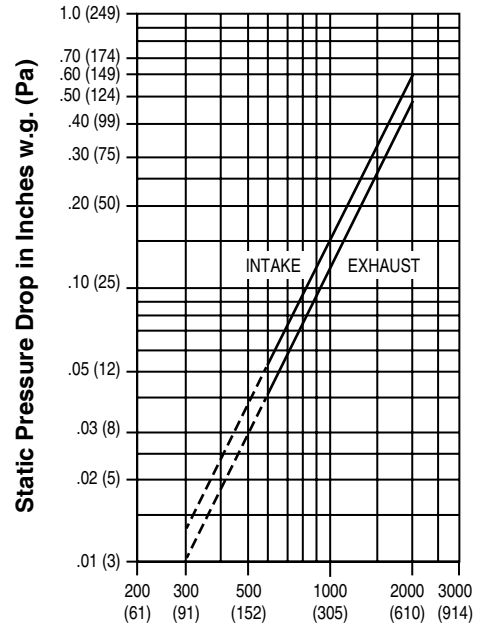
**EXTRUDED ALUMINUM STATIONARY LOUVER**  
**MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED**  
**HIGH PERFORMANCE DRAINABLE BLADE**  
**6" (152) DEEP • HORIZONTAL BLADE • PERFORMANCE DATA**  
**MODEL: 1606DHPM**

**AIRFLOW/WATER PENETRATION DATA**  
**for 48" x 48" (1219 x 1219) Louver Size**

I N T A K E	Free Area %	60%
	Free Area sq. ft. (sq. m.)	9.65 (0.90)
	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1186 fpm (361 m/min.)
	Air Volume at 1186 fpm Free Area Velocity	11,445 cfm (5401 l/s)
	Pressure Drop @ 1186 fpm	.19 in. w.g. (47 Pa)

**NOTE:** To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the beginning point of water penetration.

**PRESSURE DROP**



**Air Velocity in Feet (Meters) Per Minute**  
**Through Free Area**

Louver test size: 48" x 48" (1219 x 1219 mm).  
Standard air density @ 0.075 lbs/ft³.  
Tested to AMCA Fig. 5.5 – 6.5.



Nailor Industries Inc. certifies that the Model 1606DHPM shown herein is licensed to bear the AMCA Certified Ratings Program seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Program Seal applies to Air Performance and Water Penetration performance ratings.

Louvers were tested in accordance with AMCA Standard 500-L.



Nailor Industries Inc. certifies that the 1606DHPM shown herein is approved to bear the AMCA International Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA publications and comply with the requirements of the AMCA International Listing Label program. The AMCA International Listing Label applies to pressure cycle tested Wind Borne Debris impact resistant louvers rated for "Enhanced Protection" and +/- 150PSF with a minimum blade span of 12 in. (305mm) and a maximum unsupported blade span of 58 in. (1346 mm) and to High Velocity Wind-Driven Rain Resistant Louvers tested in the fully closed position that stops airflow through the louver.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 3 of 3  
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
8 - 23 - 24	1600F	5 - 23 - 24	1606DHPM


 Slate Blue **LF01**

 Medium Bronze **LF02**

 Sandstone **LF03**

 Light Gray **LF04**

 Charcoal **LF05**

 Bone White **LF06**

 Western Tan **LF07**

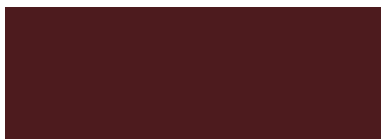
 Architectural Bronze **LF08**

 Regal Blue **LF09**

 Forest Green **LF10**

 Surrey Beige **LF11**

 Royal Brown **LF12**

 Barn Red **LF13**

 Burgundy **LF14**

 Clay **LF15**

 Almond **LF16**

 Coastal White **LF17**

 Vista Green **LF18**

 Black **LF19**

 Gloss Black **LF20**

 Campus Green **LF21**

Nailor offers 21 standard paint colors selected for architectural exterior use which meet or exceed AAMA specifications and performance requirements for color retention, chalk resistance, gloss retention, erosion, corrosion and chemical resistance as well as dry film thickness and hardness. Our state-of-the-art powder coat system provides an environment friendly finishing solution with more uniform coverage and coating thickness. The result is an exceptional finish that better resists scratching, fading and general wear. Additional liquid coat facilities for special requirements complete our ability to provide unmatched beauty and durability for any application.

Custom color matching is also available upon request. Contact your local Nailor representative.

# Available Finishes

FINISH TYPE	DESCRIPTION	STANDARD WARRANTY
<b>Fluoropolymer Powder Coat</b> AAMA 2605-Superior Finish (AKA: Powdura® 5000, Corafalon® Powder, Interpon® D3000-Fluoromax, IFS 500FP)	<b>"Ultimate"</b> - A next generation hyper durable powder coating, based on FEVE fluoropolymer resins and ceramic pigmentation that the industry has acknowledged as the foundation for superior performance coatings. They provide a hard surface that is resistant to scratching and scuffing, with superior color and gloss retention, when applied to a variety of exterior architectural applications. This technology represents the "ultimate" in environmentally friendly finishes, with Zero-VOC emissions. A superior alternative to traditional 70% Kynar 500® / Hylar 500® PVDF fluoropolymer liquid coatings.	10 years (Consult Nailor for availability of extended warranty)
<b>High Performance Powder Coat</b> AAMA 2604 - High Performance Finish (AKA: Powdura® 4000, Envirocron® Ultra Durable Powder, Dynadure™ 400, Interpon® D2000, IFS 400SD)	<b>"Better"</b> - A high performance polyester powder coating, based on "super durable" resins that utilize infrared reflective pigments, which provides excellent resistance to outdoor weathering. A harder and more environmentally friendly coating than other liquid paint counterparts and with Zero-VOC emissions. A good alternative to 50% Kynar 500® / Hylar 5000® liquid coatings.	5 years
<b>Durable Powder Coat</b> AAMA 2603 - Pigmented Organic Coatings (AKA: Powdura® 3000, Envirocron® Durable Powder, Dynadure™ 300, Interpon® D1000, IFS 300SP)	<b>"Good"</b> - A durable powder coat based on thermosetting polyester resin technology. Provides a good economical combination of physical and chemical resistance properties. Environmentally superior to liquid spray paints and Zero – VOC emissions.	1 year
<b>Clear Anodize 215-R1</b> AA-M10C22A41 (0.7 mil. min.)	Architectural Class I. Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack. Recommended for severely corrosive and abrasive atmospheric exposure.	5 years
<b>Clear Anodize 204-R1</b> AA-M10C22A31 (0.4 - 0.7 mil.)	Architectural Class II. Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack. Recommended for normal weather exposure.	1 year
<b>Color Anodize</b> AA-M10C22A44 (0.7 mil. min.)	Architectural Class I. "Two-step" aluminum coating process. Following a standard anodizing procedure, a second electrolytic process deposits colored metallic pigments which penetrate the aluminum oxide pores, producing a corrosion resistant, colorfast finish. Available in light, medium, dark bronze and black.	5 years
<b>Prime Coat</b>	Prime coat provides a stable base for painting of louvers in the field. Surface pretreatment includes degreasing and a chemical cleaning before an epoxy prime coat is applied. Finish coat should be field applied as soon as possible for best adhesion, after a thorough cleaning for dust etc. that can contaminate the final finish and cause premature flaking or peeling.	N/A

*Paint finish warranties are not applicable to steel products.*

*Powdura® is a registered trademark of The Sherwin-Williams Company.*

*Corafalon® and Envirocron® are registered trademarks of PPG Industries Ohio, Inc.*

*Interpon® is a registered trademark of Akzo Nobel Powder Coatings Ltd.*

*Kynar 500® is a registered trademark of Arkema, Inc.*

*Hylar 5000® is a registered trademark of Solvay Solexis, Inc.*



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/building](http://www.miamidade.gov/building)

**Nailor Industries Inc.**  
**4714 Winfield Road**  
**Houston, TX 77039**

**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 1606DHPM Aluminum Louver w/ and w/o Damper – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **1606DHPM**, titled “1606DHPM Louver w/ and w/o Damper”, sheets 1 through 27 of 27, prepared by manufacturer, dated 11/29/2021, with revision B dated 08/14/2024, signed and sealed by Wayne K. Helmila, 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, Houston, TX, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**LIMITATION:** This system is to be 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 resistant/waterproof equipment, components, or supplies.

**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 No. 23-0724.23** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



08/15/24

**NOA No. 24-0516.04**  
**Expiration Date: August 30, 2028**  
**Approval Date: August 15, 2024**  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS “Submitted under NOA No. 18-0117.12”**

1. Drawing No. **1606DHPM**, titled “1606DHPM Louver w/ and w/o Damper”, sheets 1 through 21 of 21, dated 06/14/17, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

**B. TESTS “Submitted under NOA No. 18-0117.12”**

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 1606 DHPM Louver System, prepared by Intertek, Test Report No. **H1900.01-801-18-R2**, dated 09/21/17 and revised on 05/23/18, signed and sealed by Tyler Westerling, P.E.
2. Test Report on Wind Driven Rain Resistance per TAS 100(A)-95 on a Model 1606 DHPM Aluminum Louver with damper, prepared by Intertek, Test Report No. **H0222.04-801-18**, dated 09/27/17, signed and sealed by Tyler Westerling, P.E.
3. Test Report on High Velocity Wind Driven Rain Resistance per ANSI/AMCA 550-09 on a Model 1606 DHPM Aluminum Louver, prepared by Intertek, Test Report No. **H0222.03-801-18**, dated 09/28/17, signed and sealed by Tyler Westerling, P.E.

**C. CALCULATIONS “Submitted under NOA No. 18-0117.12”**

1. Louver structural calculations dated 11/03/17, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, 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 **FBC 6<sup>th</sup> Edition (2017)** issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 24-0516.04**  
**Expiration Date: August 30, 2028**  
**Approval Date: August 15, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED UNDER NOA # 21-0630.10 AND NEW**

**A. DRAWINGS**

1. Drawing No. **1606DHPM**, titled “1606DHPM Louver w/ and w/o Damper”, sheets 1 through 27 of 27, prepared by manufacturer, dated 11/29/2021, with revision B dated 08/14/2024, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Louver calculations, prepared by Rice Engineering, dated 08/14/2024, signed and sealed by Wayne K. Helmila, 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 8<sup>th</sup> edition (2023) of the FBC, issued by Rice Engineering, dated 07/22/2024, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 07/22/2024, signed and sealed by Wayne K. Helmila, P.E.  
***“Submitted under NOA # 21-0630.10”***
3. Statement letter of code conformance to the **7<sup>th</sup> edition (2020) FBC**, issued by Rice Engineering, dated 08/16/2021, signed and sealed by Wayne K. Helmila, P.E.

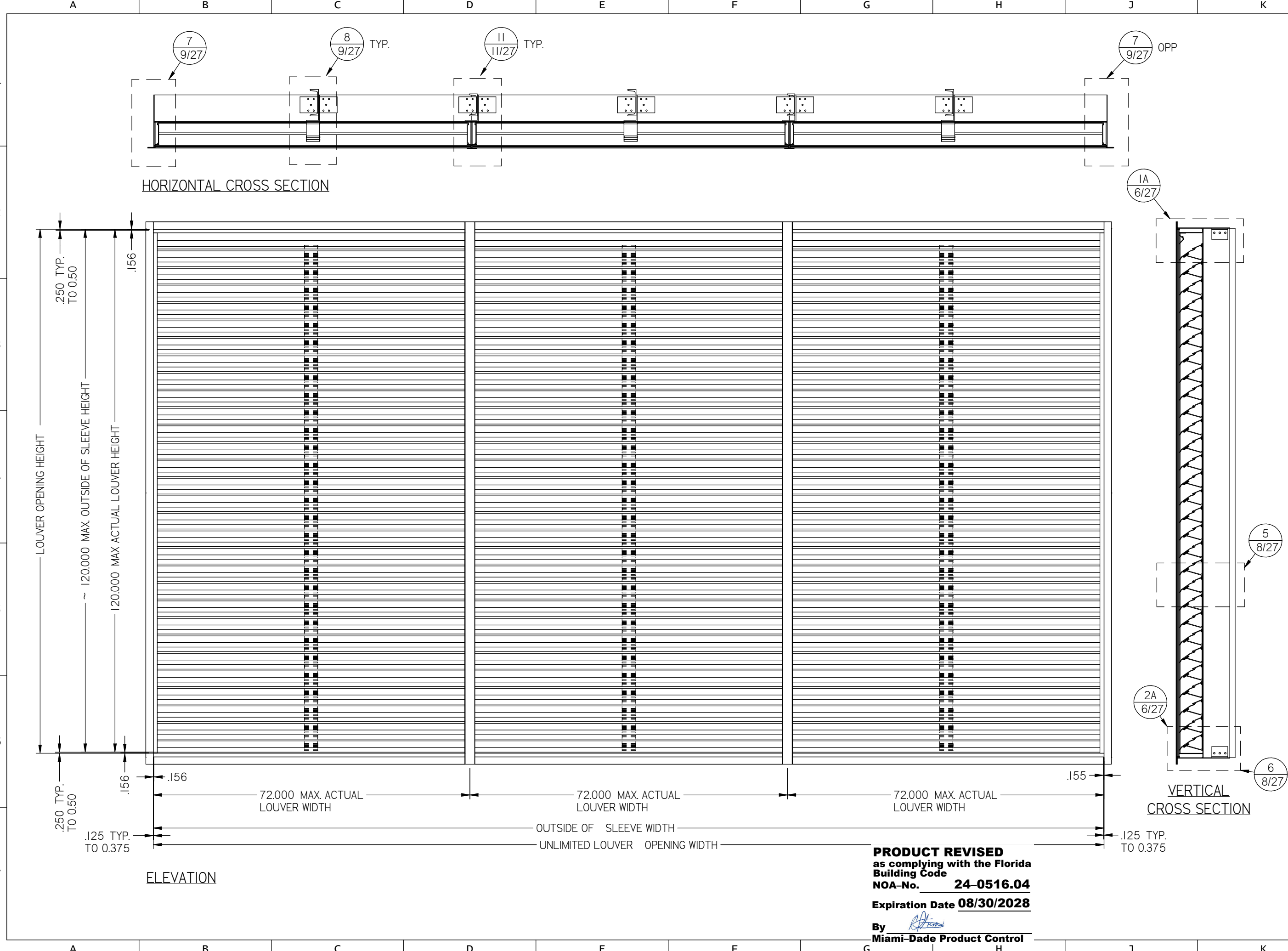


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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 24-0516.04**  
**Expiration Date: August 30, 2028**  
**Approval Date: August 15, 2024**



[illegible]



DWN BY: f cortinas		CHK BY: BDennis	
DATE: 11/29/2021		SCALE: NTS	
SHEET: 2 OF 27			
DWG. NO. 1606DHPM		REV B	

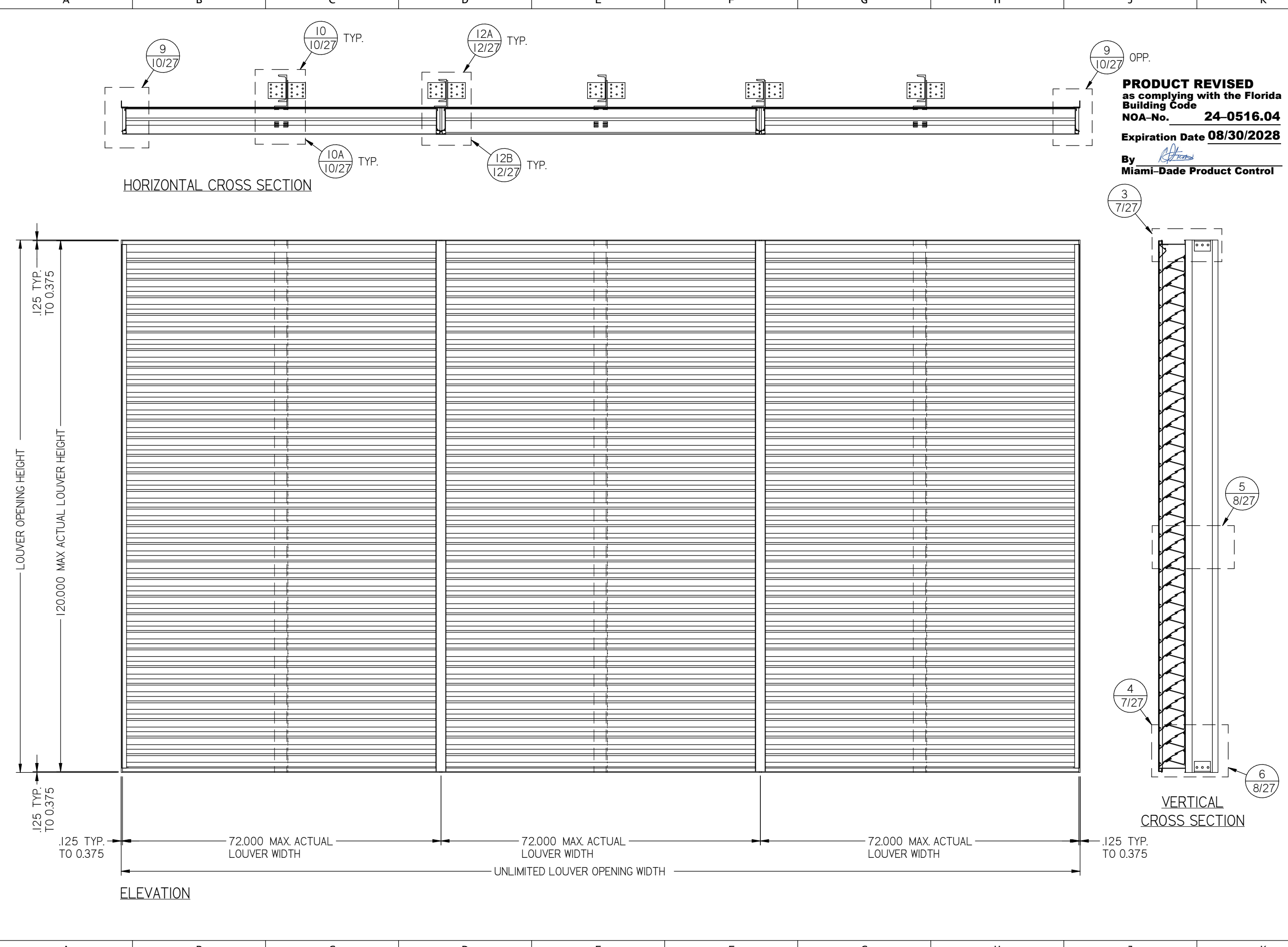
**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086


**TITLE:**  
1606DHPM LOUVER  
FLANGE FRAME  
SLEEVE MOUNT

**PROFESSIONAL ENGINEER**  
WAYNE K. HELMILA  
LICENSE No. 59092  
STATE OF FLORIDA  
07/23/2024  
COA: 9090


**RICE ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **24-0516.04**  
Expiration Date **08/30/2028**  
By *[Signature]*  
**Miami-Dade Product Control**



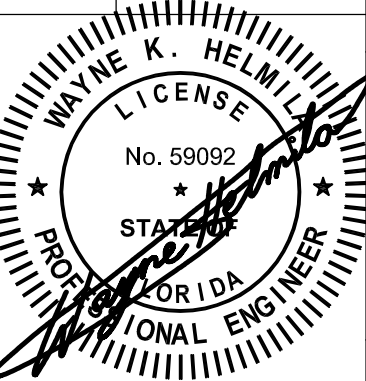
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **24-0516.04**  
Expiration Date **08/30/2028**  
By   
**Miami-Dade Product Control**

DWN BY: fcortinas		CHK BY: BDennis	
DATE: 11/29/2021		SCALE: NTS	
SHEET: 3 OF 27		REV B	
DWG. NO. 1606DHPM			



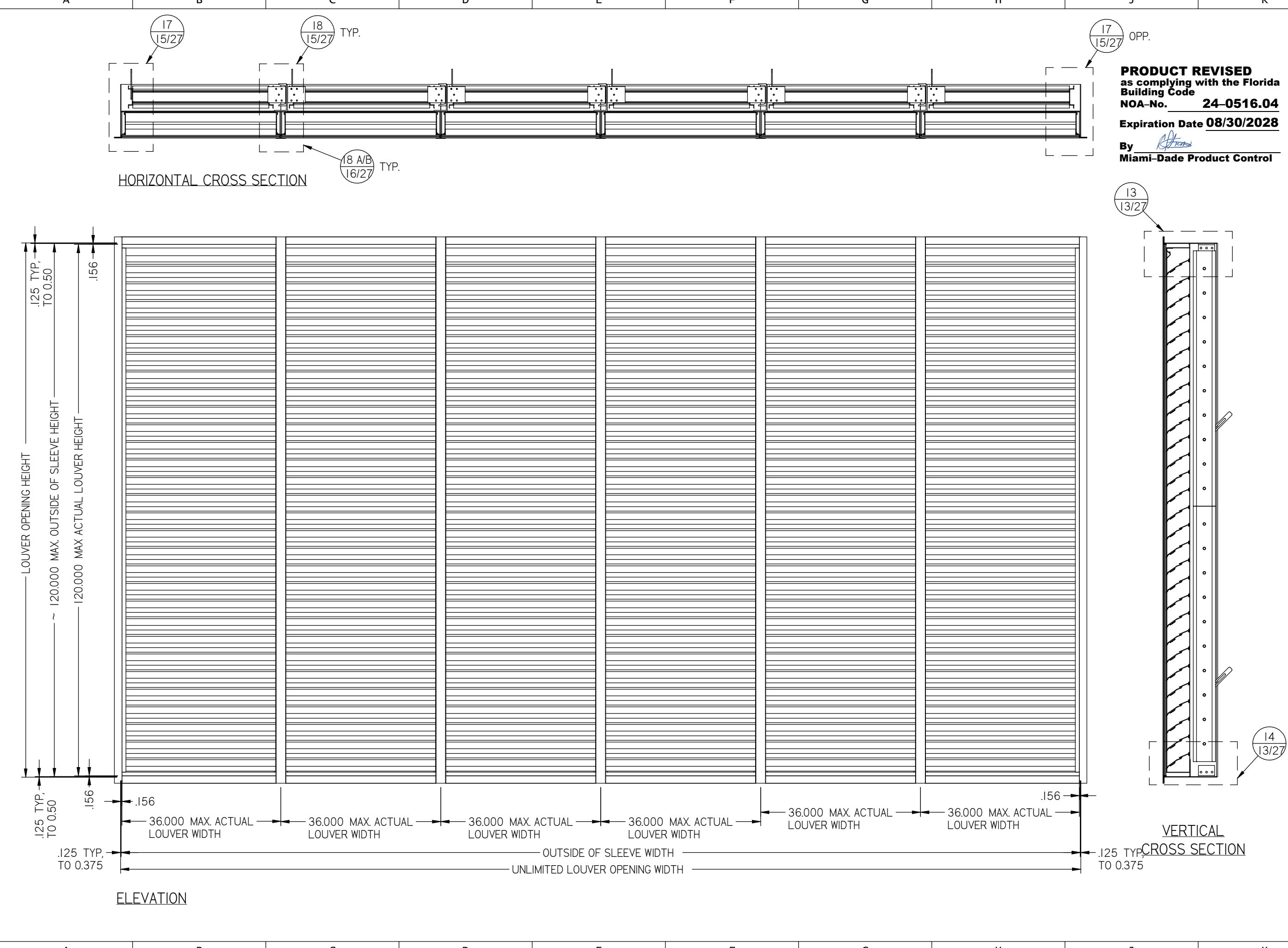
**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:  
**1606DHPM LOUVER  
COUNTINOUS ANGLE MOUNT**



07/23/2024  
COA: 9090

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**ENGINEERING**  
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Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092




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Building Code  
NOA-No. **24-0516.04**  
Expiration Date **08/30/2028**  
By *[Signature]*  
**Miami-Dade Product Control**

DWN BY: fcortinas	CHK BY: BDennis	REV	B
DATE: 11/29/2021	SCALE: NTS	SHEET: 4 OF 27	
DWG. NO.		1606DHPM	



**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

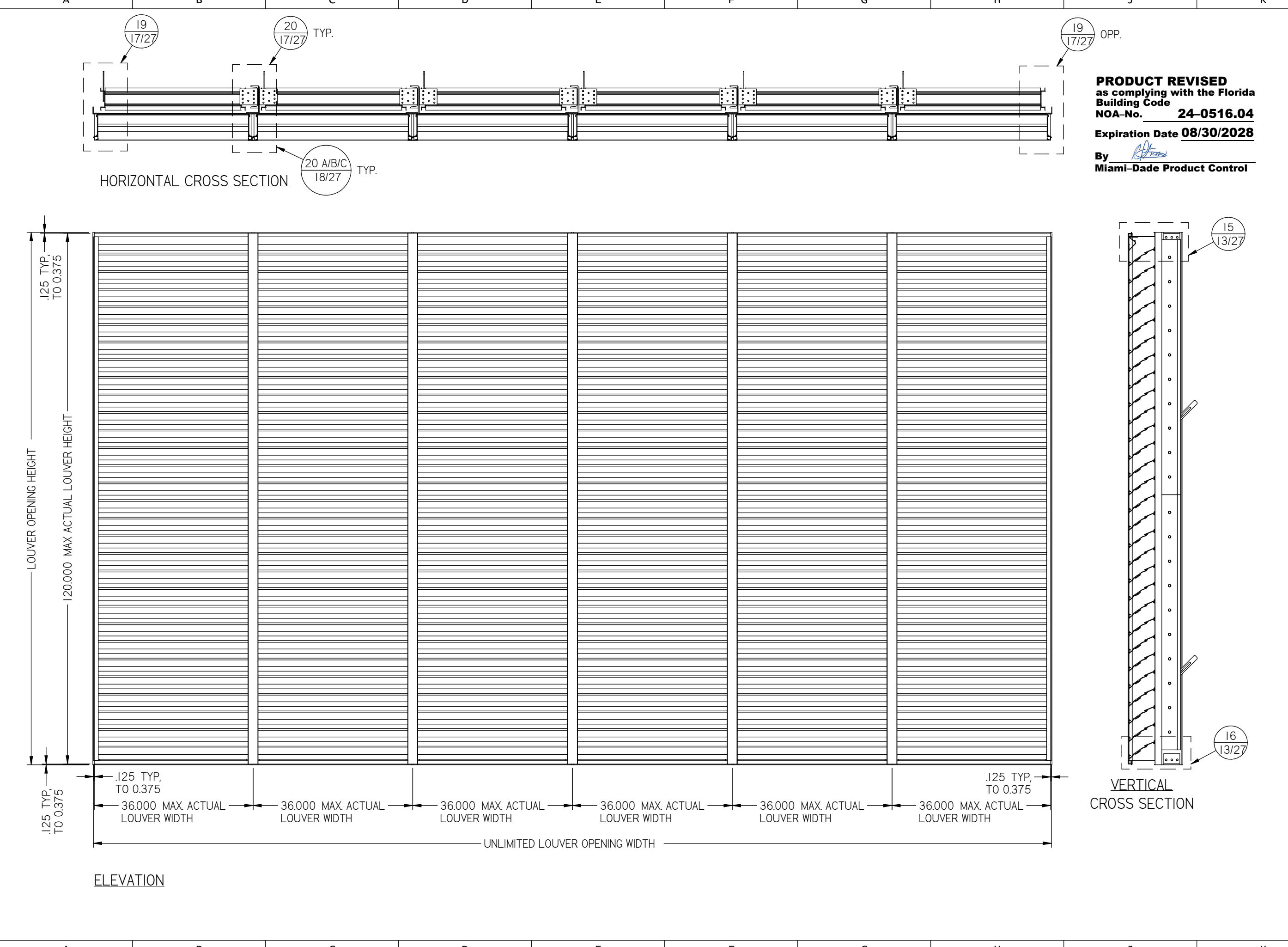
TITLE:  
**1606DHPM / DAMPER  
FLANGE FRAME  
SLEEVE MOUNT**



07/23/2024  
COA: 9090

**RICE**  
**ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

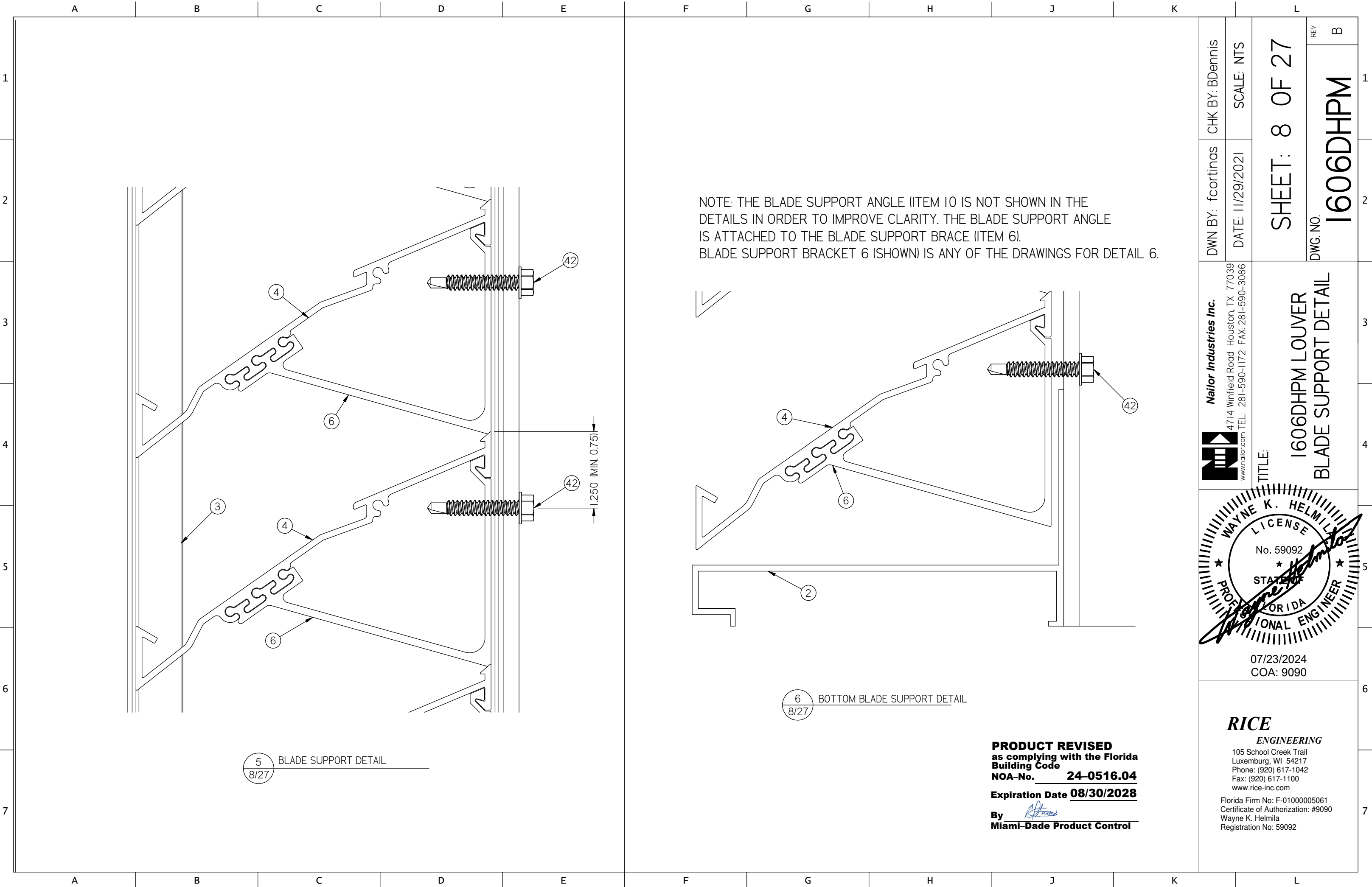


<b>Nailor Industries Inc.</b> 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086	DWN BY: fcortinas	CHK BY: BDennis
	DATE: 11/29/2021	SCALE: NTS
TITLE: <b>1606DHPM / DAMPER CONTINUOUS ANGLE MOUNT</b>	SHEET: 5 OF 27	
	DWG. NO. <b>1606DHPM</b>	
 07/23/2024 COA: 9090	REV B	
	<b>RICE ENGINEERING</b> 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092	










NOTE: THE BLADE SUPPORT ANGLE (ITEM 10 IS NOT SHOWN IN THE DETAILS IN ORDER TO IMPROVE CLARITY. THE BLADE SUPPORT ANGLE IS ATTACHED TO THE BLADE SUPPORT BRACE (ITEM 6).  
BLADE SUPPORT BRACKET 6 (SHOWN) IS ANY OF THE DRAWINGS FOR DETAIL 6.

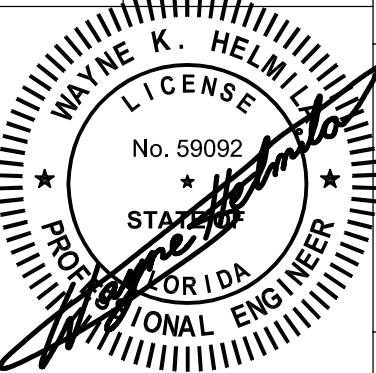
DWN BY: fcortinas	CHK BY: BDennis
DATE: 11/29/2021	SCALE: NTS
SHEET: 8 OF 27	
DWG. NO.	REV B
1606DHPM	




**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:

**1606DHPM LOUVER  
BLADE SUPPORT DETAIL**



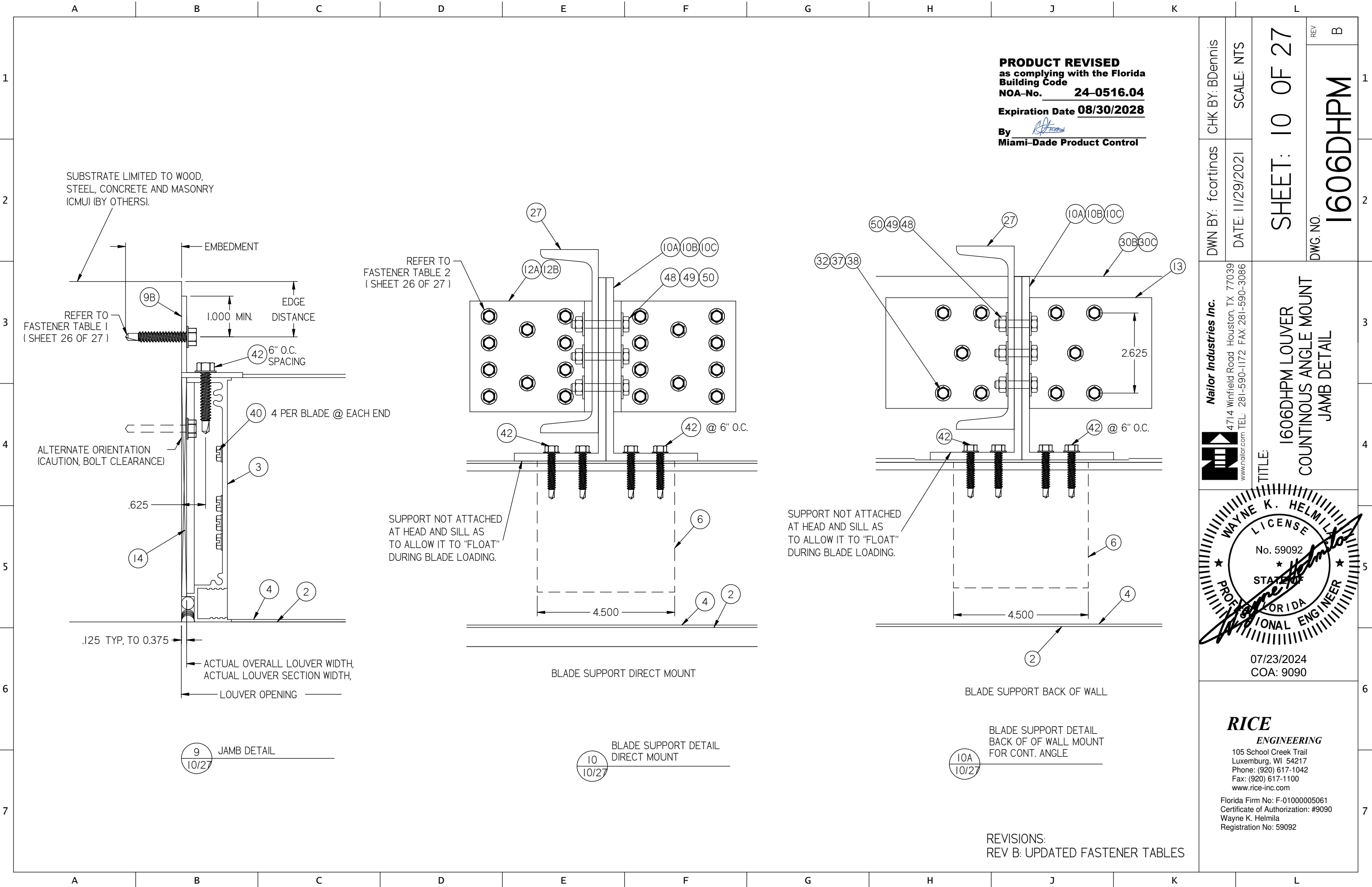
07/23/2024  
COA: 9090

**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No. 24-0516.04**  
**Expiration Date 08/30/2028**  
**By**   
**Miami-Dade Product Control**

**RICE**  
**ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
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www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092







CHK BY: BDennis

DWN BY: fcortinas

SCALE: NTS

DATE: 11/29/2021

SHEET: 10 OF 27

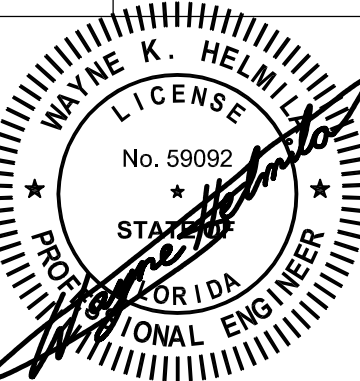
REV B  
DWG. NO. 1606DHPM

Nailor Industries Inc.



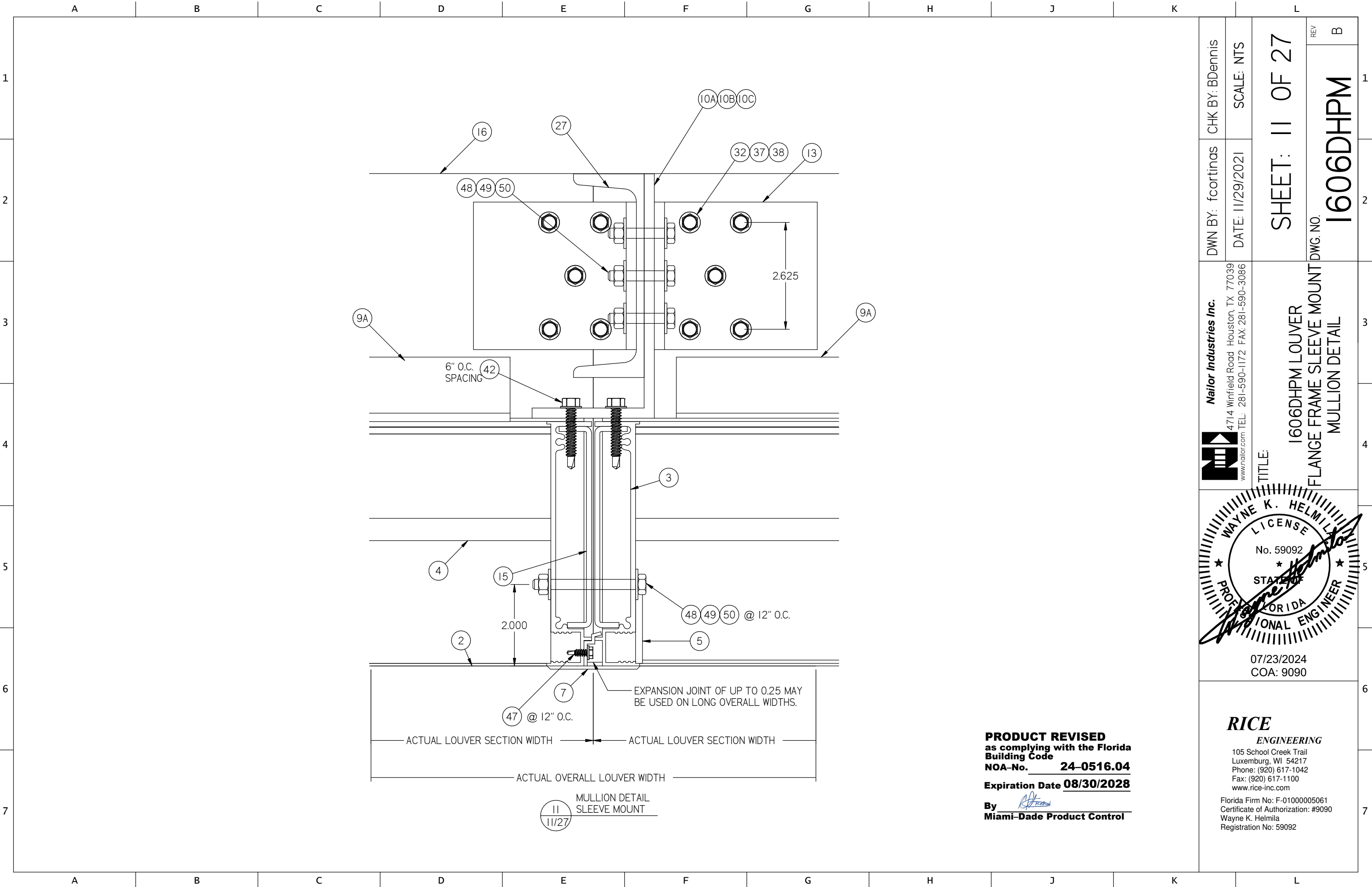
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:  
1606DHPM LOUVER  
COUNTINOUS ANGLE MOUNT  
JAMB DETAIL



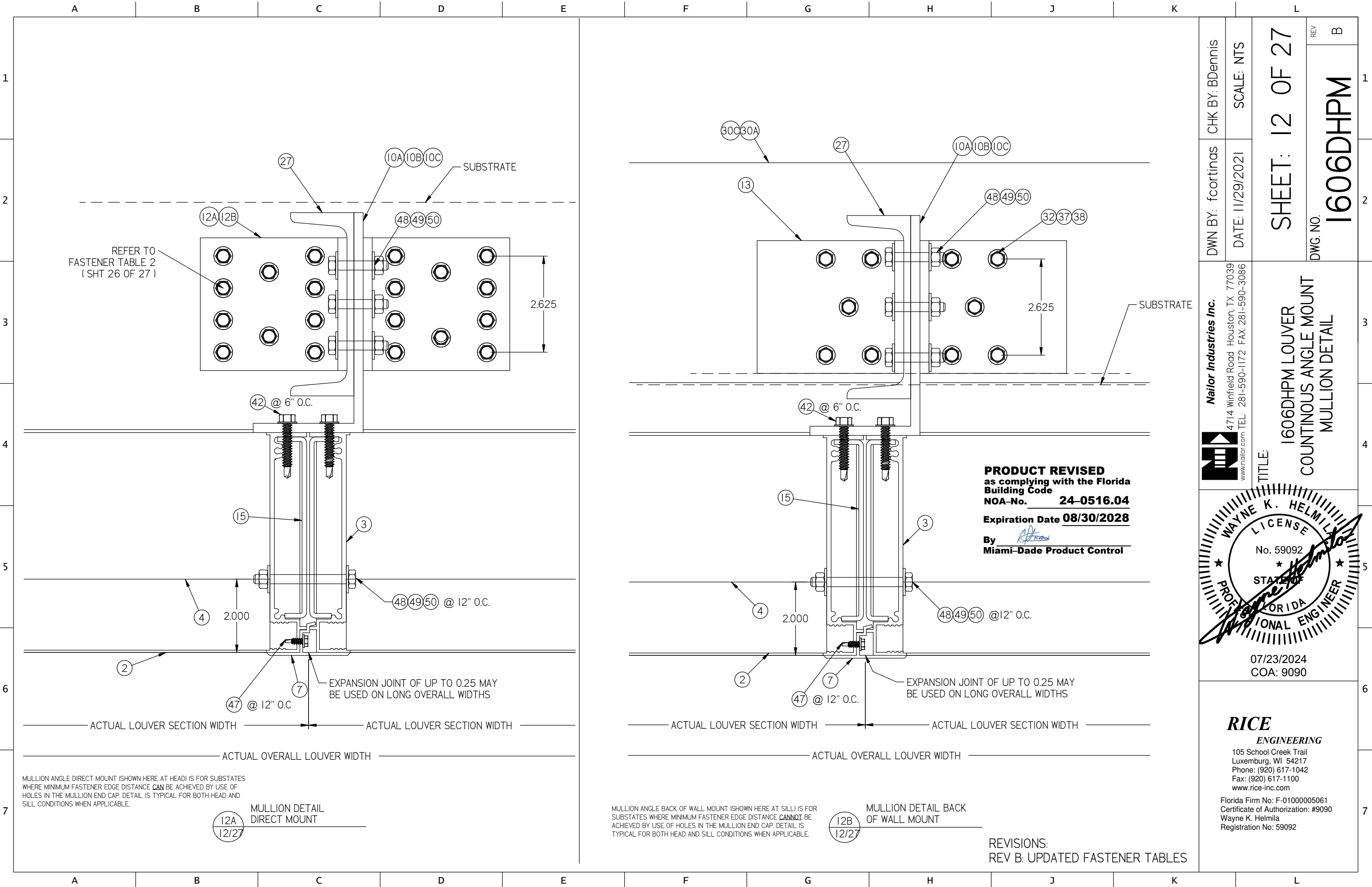
07/23/2024  
COA: 9090

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ENGINEERING  
105 School Creek Trail  
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Wayne K. Helmila  
Registration No: 59092



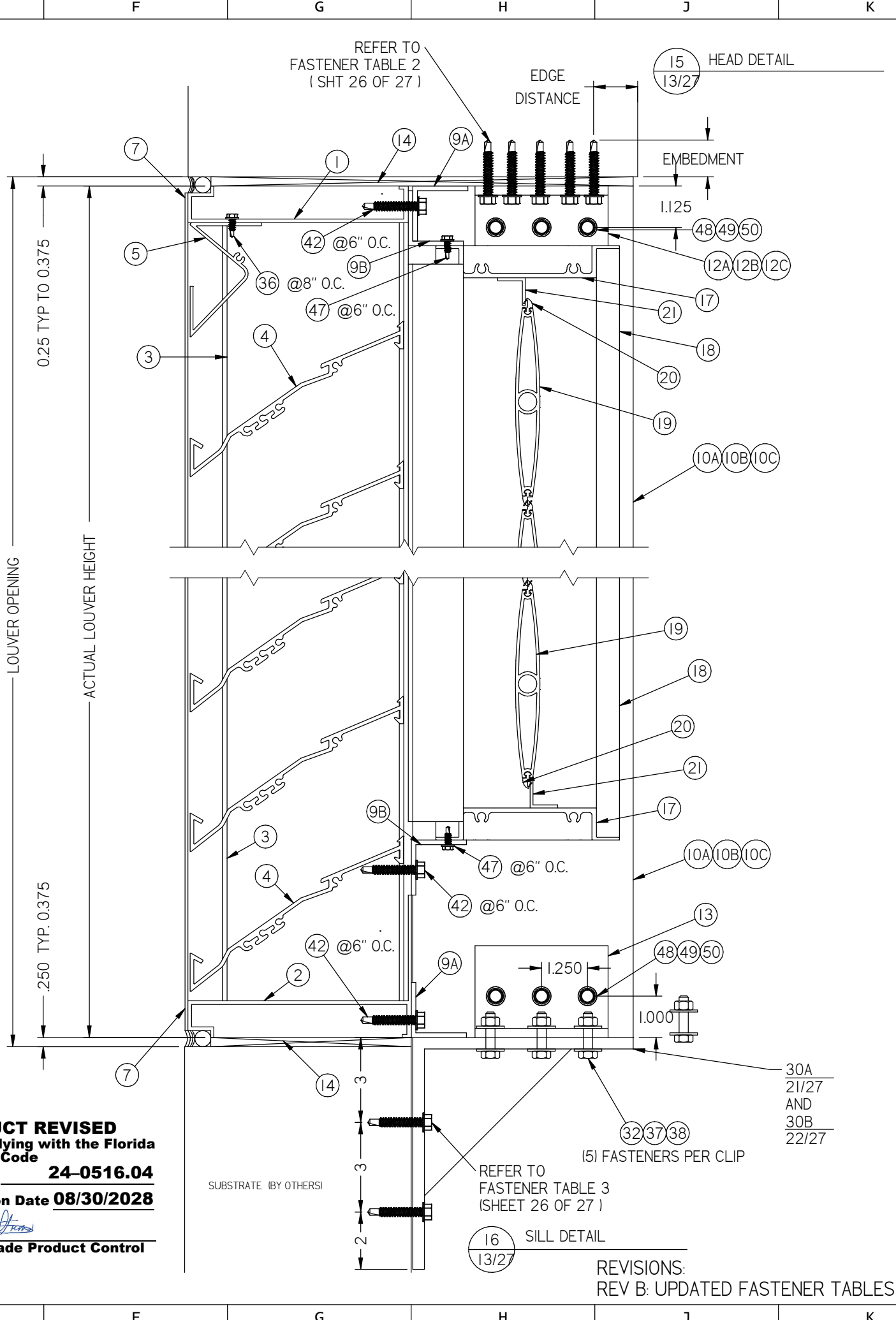
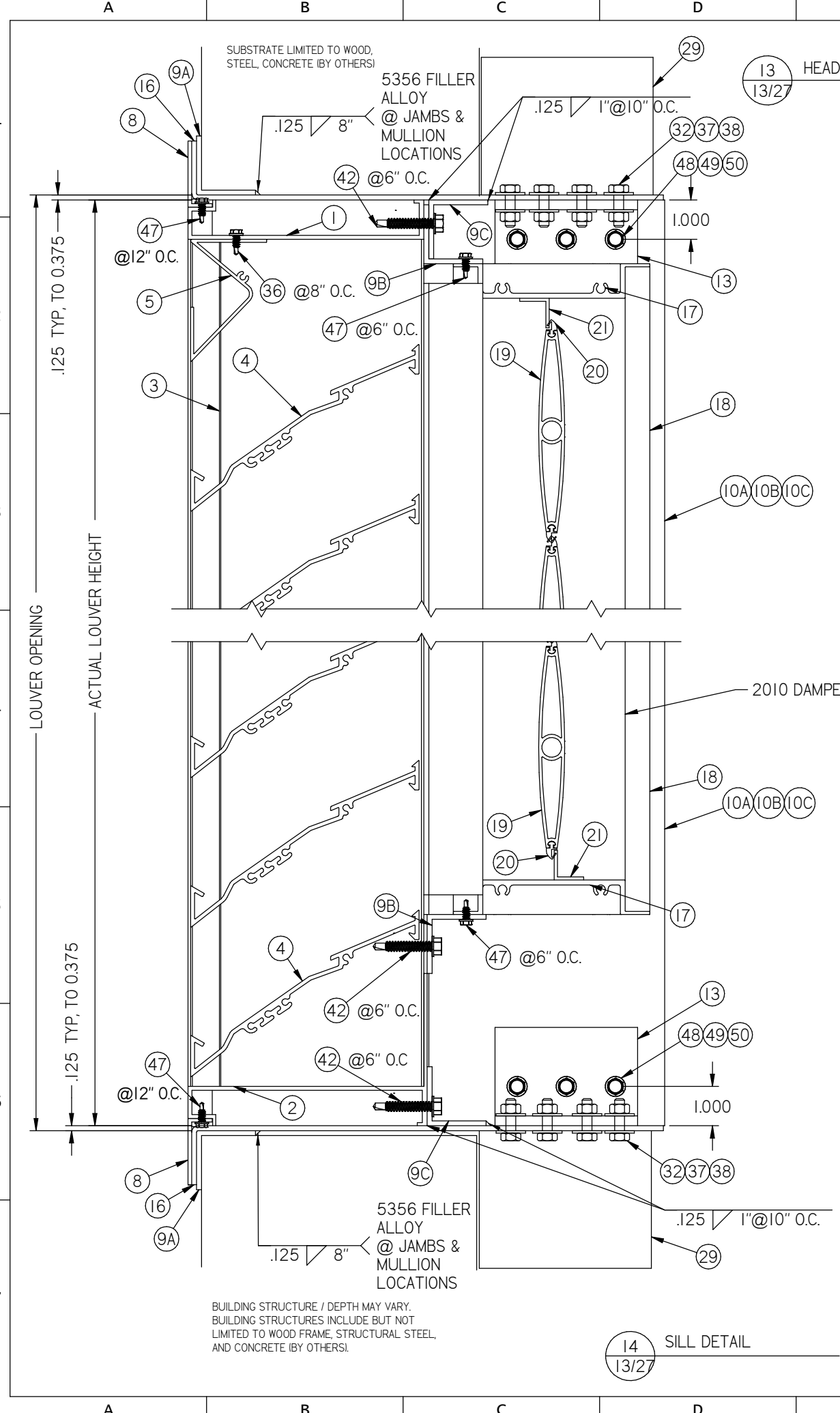
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
**NOA-No. 24-0516.04**  
**Expiration Date 08/30/2028**  
**By**   
**Miami-Dade Product Control**

 <b>Nailor Industries Inc.</b> 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086	DWN BY: fcortinas	CHK BY: BDennis
	DATE: 11/29/2021	SCALE: NTS
SHEET: 11 OF 27		
DWG. NO. <b>1606DHPM</b>		
TITLE: <b>1606DHPM LOUVER FLANGE FRAME SLEEVE MOUNT MULLION DETAIL</b>		
 07/23/2024 COA: 9090		
<b>RICE</b> <b>ENGINEERING</b> 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092		



CHK BY: BDennis		DWN BY: f cortinas		DATE: 11/29/2021		SCALE: NTS	
SHEET: 12 OF 27				DWG. NO. 1606DHPM			
Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086				1606DHPM LOUVER COUNTINOUS ANGLE MOUNT MULLION DETAIL			
WAYNE K. HELMILA LICENSE No. 59092 STATE OF FLORIDA PROFESSIONAL ENGINEER 07/23/2024 COA: 9090				RICE ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092			

REVISIONS:  
REV B: UPDATED FASTENER TABLES



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **24-0516.04**  
Expiration Date **08/30/2028**  
By *[Signature]*  
**Miami-Dade Product Control**

DWN BY: f cortinas		CHK BY: BDennis
DATE: 11/29/2021		SCALE: NTS
SHEET: 13 OF 27		
DWG. NO. <b>1606DHPM</b>		
REV. B		

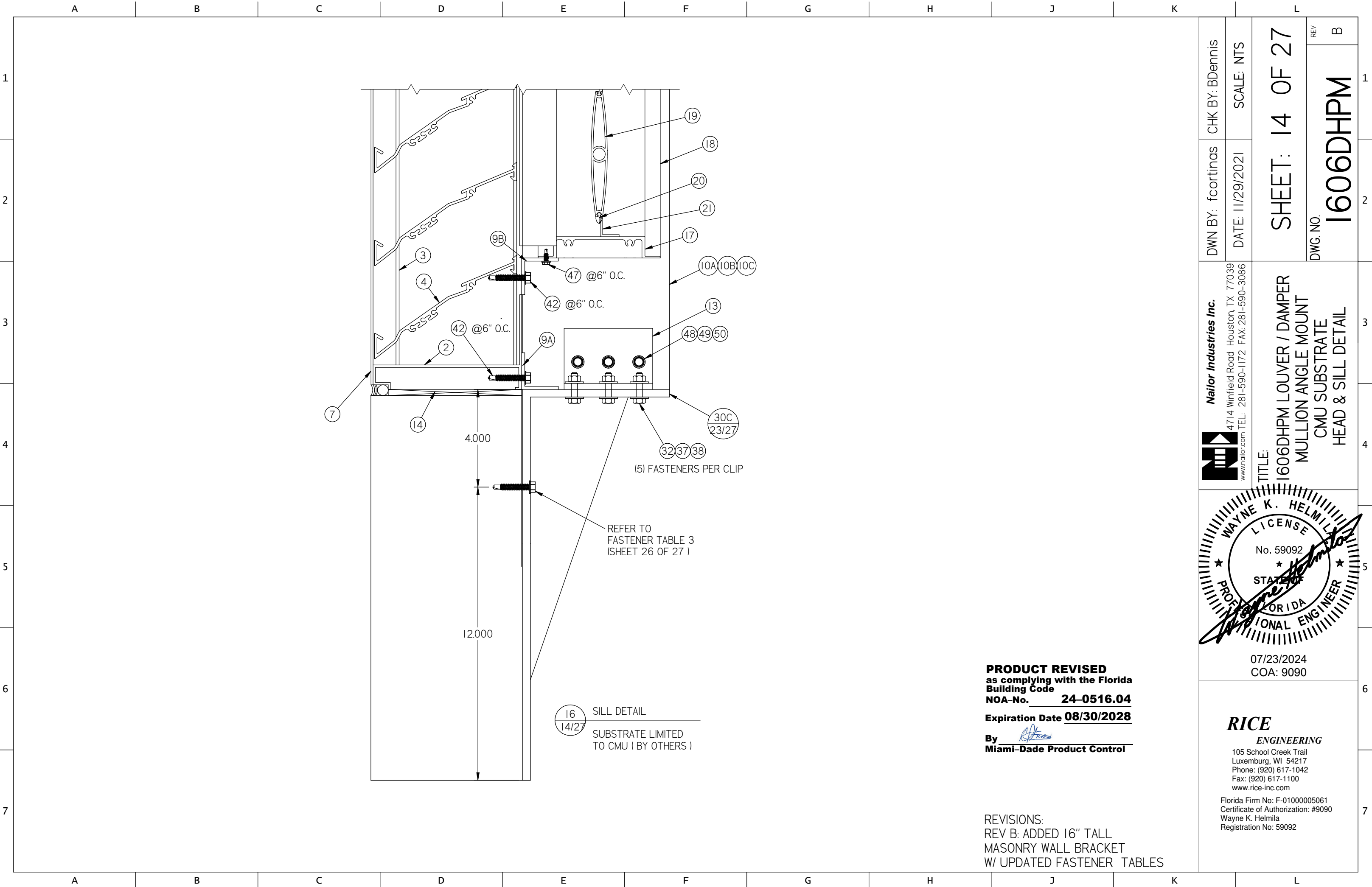
**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086


**TITLE:**  
1606DHPM LOUVER / DAMPER  
FLANGE FRAME W/SLEEVE  
MULLION ANGLE MOUNT  
HEAD & SILL DETAIL

**WAYNE K. HELMILA**  
LICENSE  
No. 59092  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
07/23/2024  
COA: 9090

**RICE ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
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Florida Firm No: F-01000005061  
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Wayne K. Helmila  
Registration No: 59092





**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **24-0516.04**  
Expiration Date **08/30/2028**  
By   
**Miami-Dade Product Control**

REVISIONS:  
REV B: ADDED 16" TALL  
MASONRY WALL BRACKET  
W/ UPDATED FASTENER TABLES

DWN BY: fcortinas	CHK BY: BDennis
DATE: 11/29/2021	SCALE: NTS
SHEET: 14 OF 27	
DWG. NO.	REV B
1606DHPM	



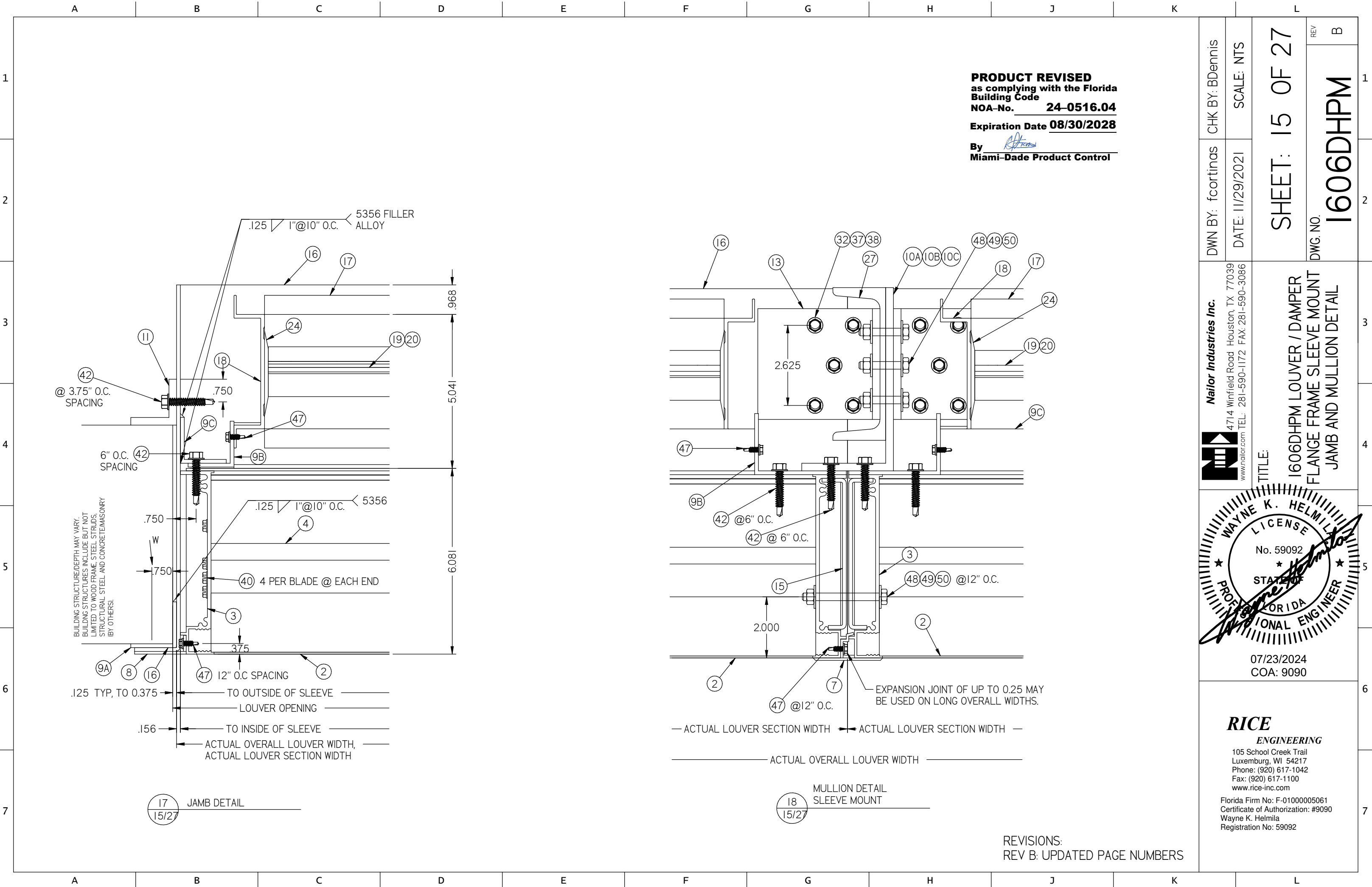
**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

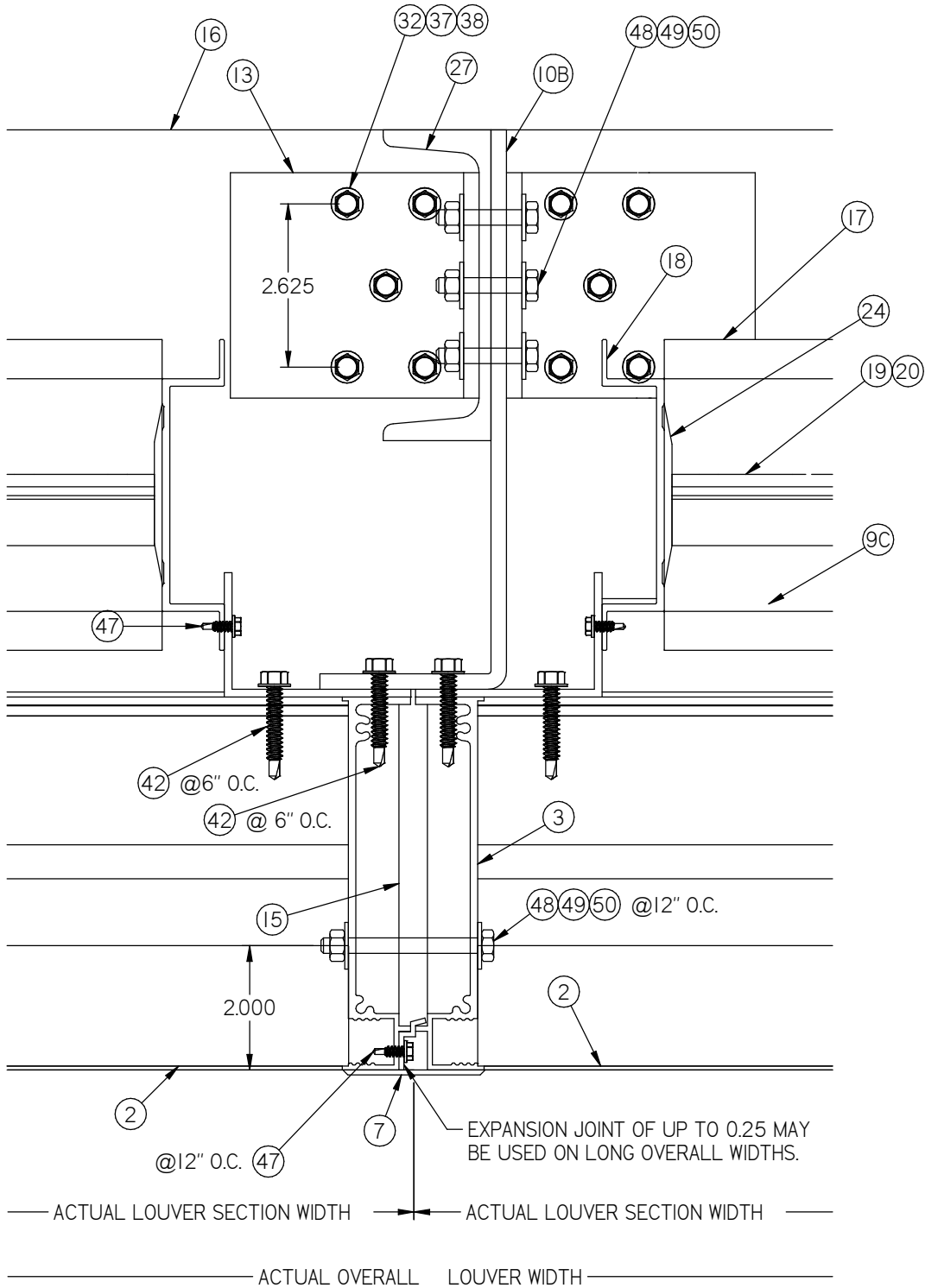
TITLE:  
1606DHPM LOUVER / DAMPER  
MULLION ANGLE MOUNT  
CMU SUBSTRATE  
HEAD & SILL DETAIL




07/23/2024  
COA: 9090

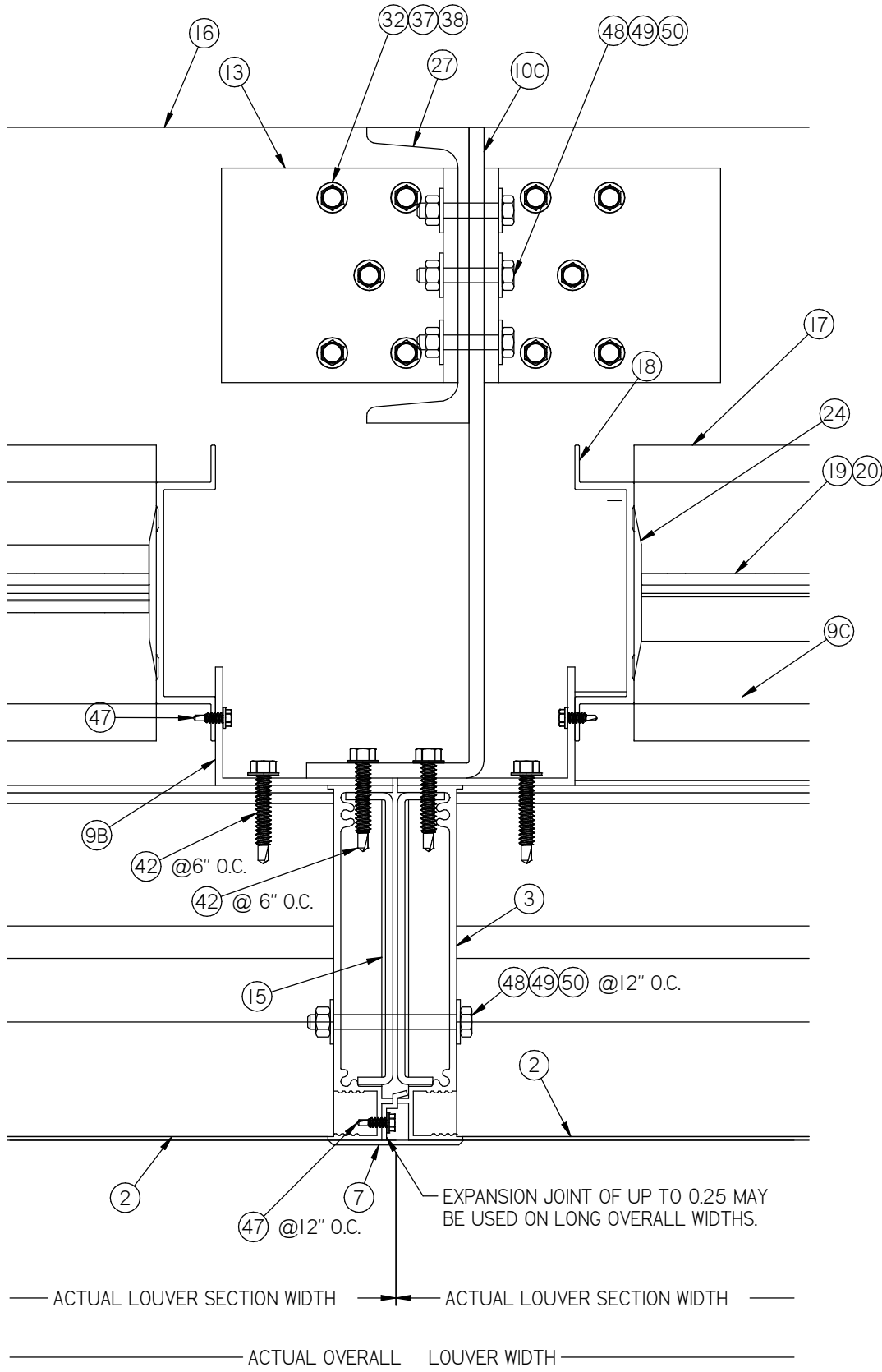
**RICE**  
**ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092





18A  
16/27  
MULLION DETAIL  
SLEEVE MOUNT  
FOR 36" BLADE SLEEVE MOUNT  
STEEL C6X8.2 & ALUM 9X3 X 1/4 "

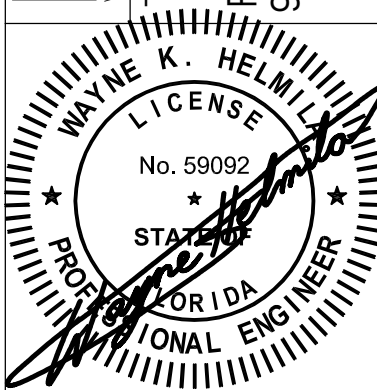
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **24-0516.04**  
Expiration Date **08/30/2028**  
By   
**Miami-Dade Product Control**



18B  
16/27  
MULLION DETAIL  
SLEEVE MOUNT  
FOR 36" BLADE SLEEVE MOUNT  
STEEL C6X8.2 & ALUM 11X3 X 1/4 "

REVISIONS:  
REV B: ADDED 9X3 ANGLE AND  
11 X 3 ANGLE SECTION.  
REV B: UPDATED PAGE NUMBER.

**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



07/23/2024  
COA: 9090

**RICE**  
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105 School Creek Trail  
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Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

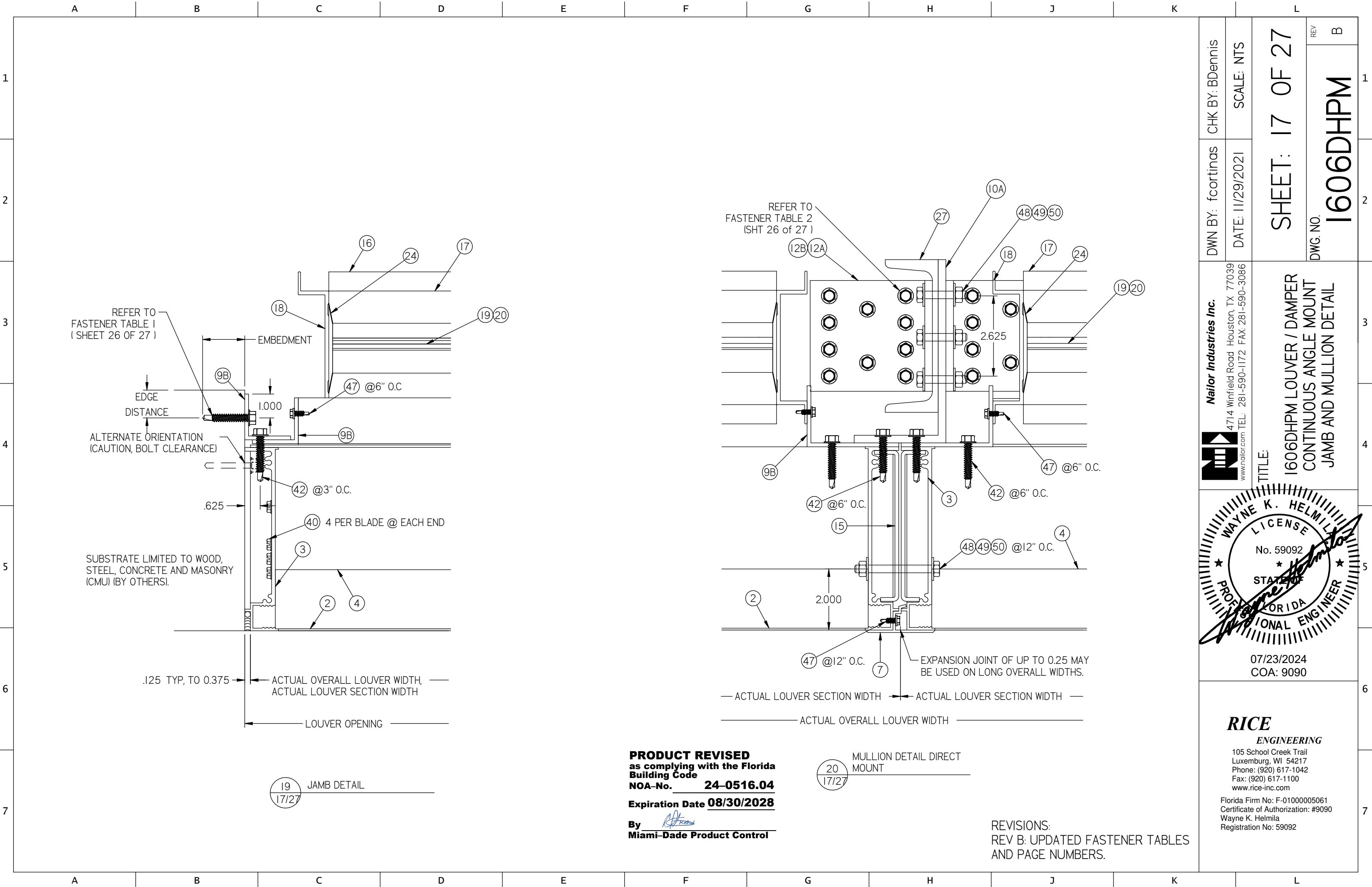
DWN BY: f.cortinas  
CHK BY: BDennis  
DATE: 11/29/2021  
SCALE: NTS

TITLE:  
1606DHPM LOUVER / DAMPER  
FLANGE FRAME SLEEVE MOUNT  
9 X3 X 1/4 & 9 X 11 X 1/4 ANGLE  
MULLION DETAIL

SHEET: 16 OF 27

DWG. NO. **1606DHPM**  
REV. B





**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **24-0516.04**  
Expiration Date **08/30/2028**  
By *[Signature]*  
**Miami-Dade Product Control**

REVISIONS:  
REV B: UPDATED FASTENER TABLES  
AND PAGE NUMBERS.

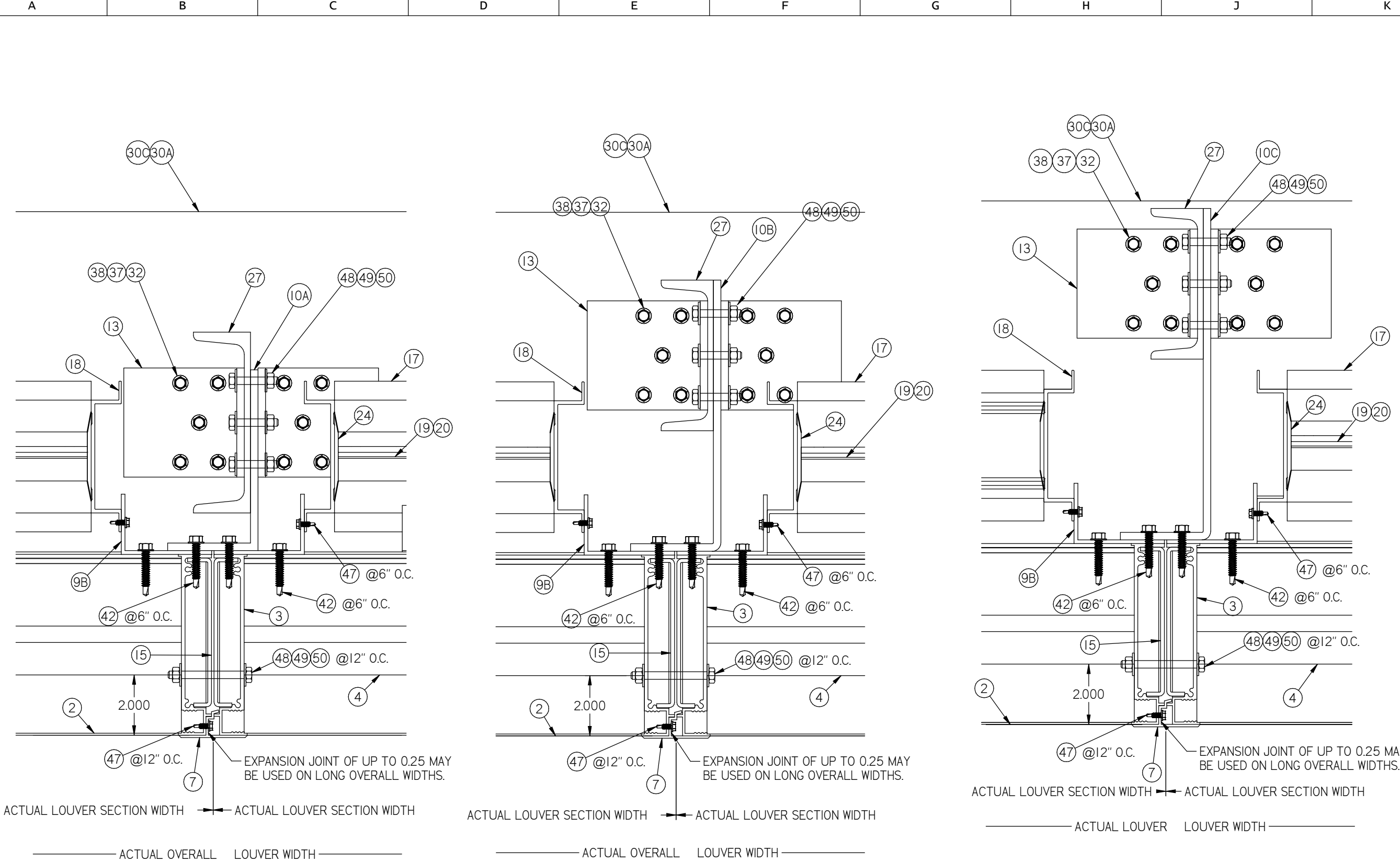
DWN BY: fcortinas	CHK BY: BDennis
DATE: 11/29/2021	SCALE: NTS
SHEET: 17 OF 27	
DWG. NO. <b>1606DHPM</b>	REV. <b>B</b>

**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
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**TITLE:**  
1606DHPM LOUVER / DAMPER  
CONTINUOUS ANGLE MOUNT  
JAMB AND MULLION DETAIL

**WAYNE K. HELMILA**  
LICENSE  
No. 59092  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
07/23/2024  
COA: 9090

**RICE ENGINEERING**  
105 School Creek Trail  
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Wayne K. Helmila  
Registration No: 59092



20 A  
18/27  
MULLION DETAIL BACK  
OF WALL MOUNT  
FOR 36" BLADE SLEEVE MOUNT  
STEEL C6X8.2 & ALUM 6X3 X 1/4 "

20 B  
18/27  
MULLION DETAIL BACK  
OF WALL MOUNT  
FOR 36" BLADE SLEEVE MOUNT  
STEEL C6X8.2 & ALUM 9X3 X 1/4 "

20C  
18/27  
MULLION DETAIL BACK  
OF WAL MOUNT  
FOR 36" BLADE SLEEVE MOUNT  
STEEL C6X8.2 & ALUM 11X3 X 1/4 "

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0516.04  
Expiration Date 08/30/2028  
By *R. Helms*  
Miami-Dade Product Control

REVISIONS:  
REV B: ADDED 9X3 ANGLE AND  
11 X 3 ANGLE SECTION.  
REV B: UPDATED PAGE NUMBER.

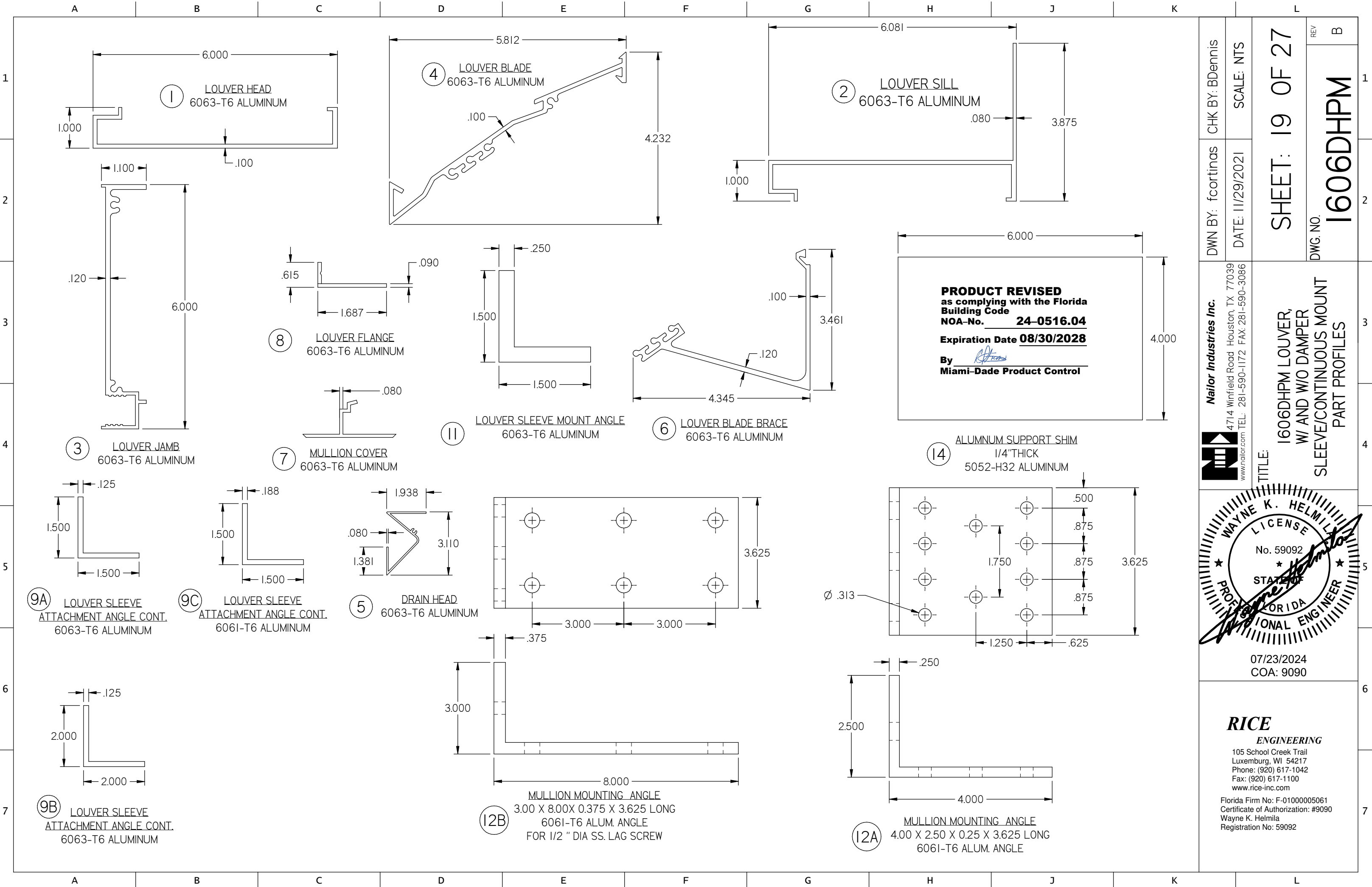
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DATE: 11/29/2021		SCALE: NTS
SHEET: 18 OF 27		
DWG. NO. 1606DHPM		REV B

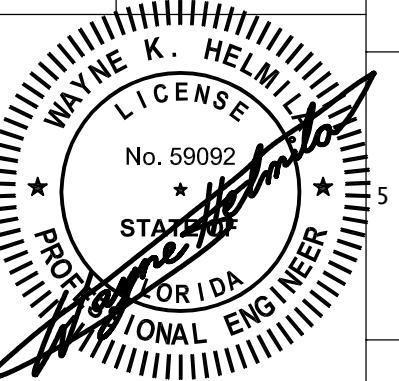
**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

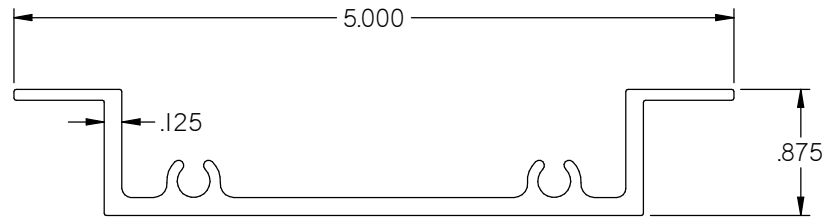
TITLE:  
1606DHPM LOUVER / DAMPER  
CONTINUOUS ANGLE MOUNT  
9 X3 X 1/4 & 9 X 11 X 1/4 ANGLE  
MULLION DETAIL

**WAYNE K. HELMILA**  
LICENSE  
No. 59092  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
07/23/2024  
COA: 9090

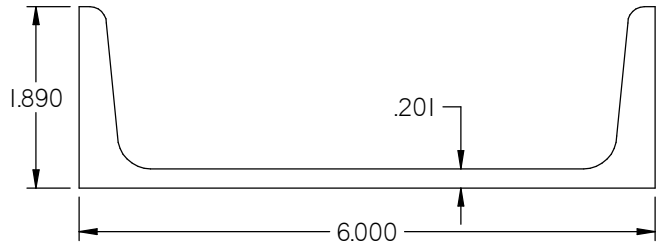
**RICE ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
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www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092



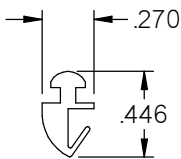
DWN BY: f cortinas	CHK BY: BDennis	SCALE: NTS	SHEET: 19 OF 27	REV B
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Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086		TITLE: 1606DHPM LOUVER, W/ AND W/O DAMPER SLEEVE/CONTINUOUS MOUNT PART PROFILES		
				
<b>RICE ENGINEERING</b> 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092				



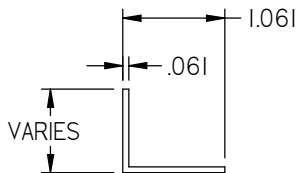
17 DAMPER HEAD/SILL  
6063-T6 ALUMINUM



27 LOUVER BRACE  
SUPPORT CHANNEL  
C6X8.2 ASTM A36 STEEL CHANNEL



20 DAMPER BLADE SEAL  
MATERIAL VARIES



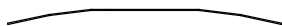
21 DAMPER TOP/BOTTOM  
CLOSER  
ALUMINUM



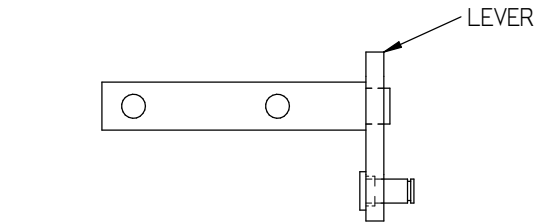
22 DAMPER BUSHING  
MATERIAL VARIES



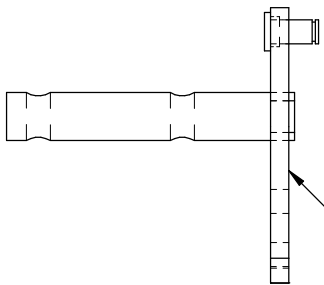
23 DAMPER LINKAGE BAR  
MATERIAL VARIES



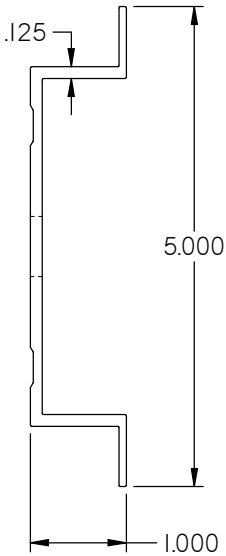
24 DAMPER JAMB SEAL  
STAINLESS STEEL



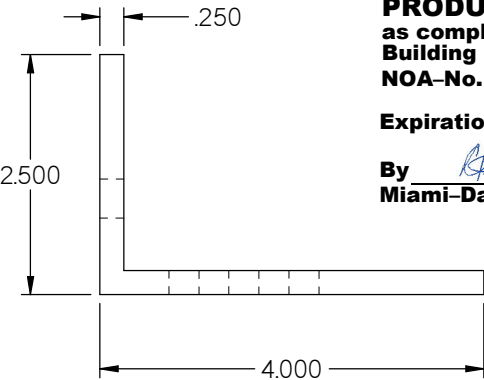
25 NON DRIVE DAMPER AXEL ASM  
MATERIAL VARIES



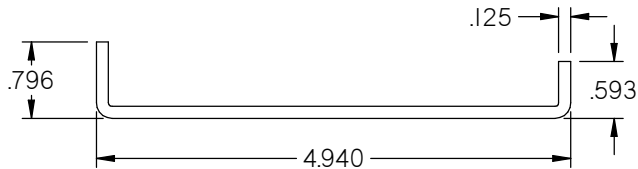
26 DRIVE SIDE DAMPER AXLE ASM  
MATERIAL VARIES



18 DAMPER JAMB  
6063-T6 ALUMINUM



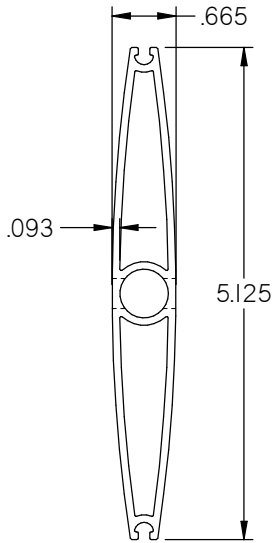
13 SLEEVE ATTACHMENT ANGLE  
4.00X 2.50 X 0.25 X 3.625 LONG  
6061-T6 ALUM. ANGLE



15 MULLION STIFFNER ALUM.  
6063-T6 ALUMINUM



16 SLEEVE FORMED ALUM.  
5052-H32 ALUMINUM

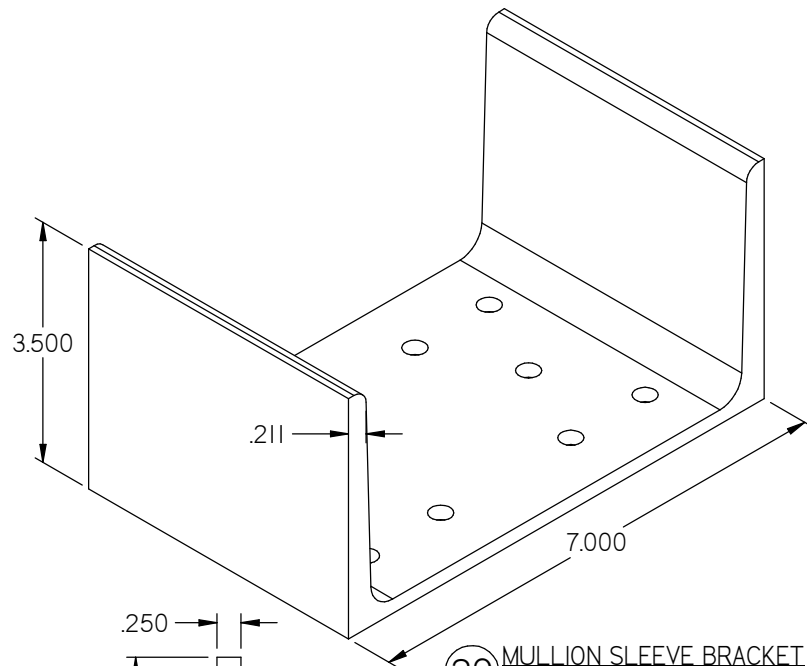


19 DAMPER BLADE  
6063-T6 ALUMINUM

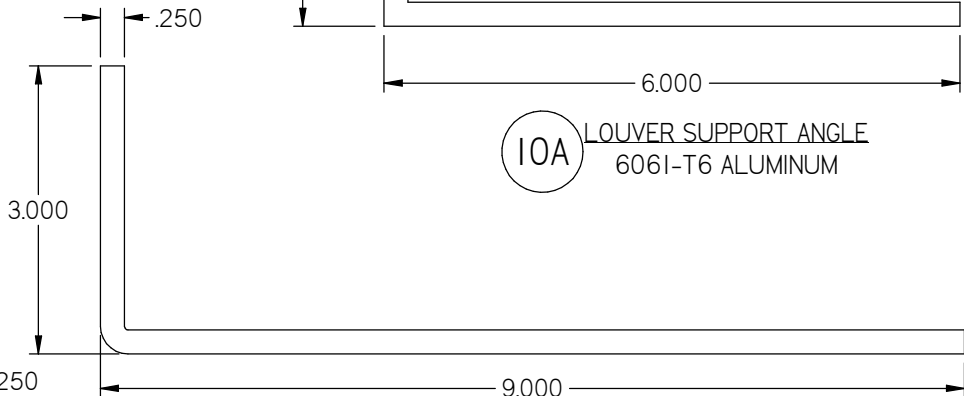
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **24-0516.04**

Expiration Date **08/30/2028**

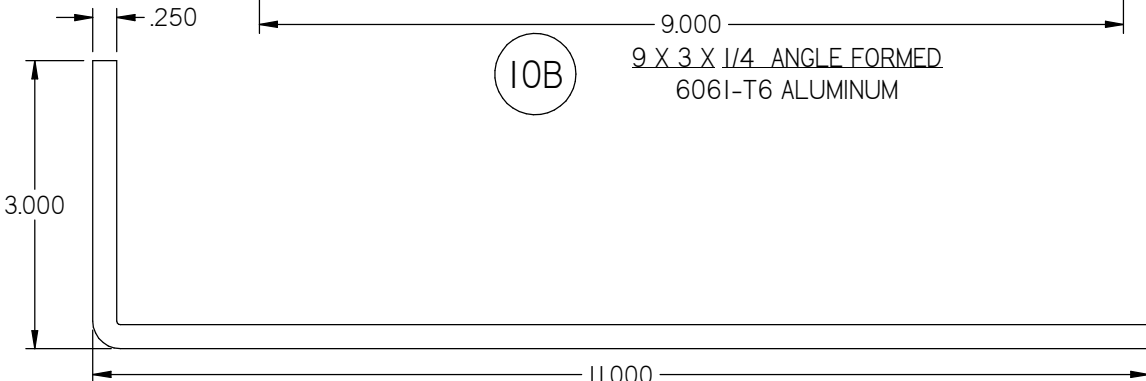
By *R. Helmita*  
Miami-Dade Product Control



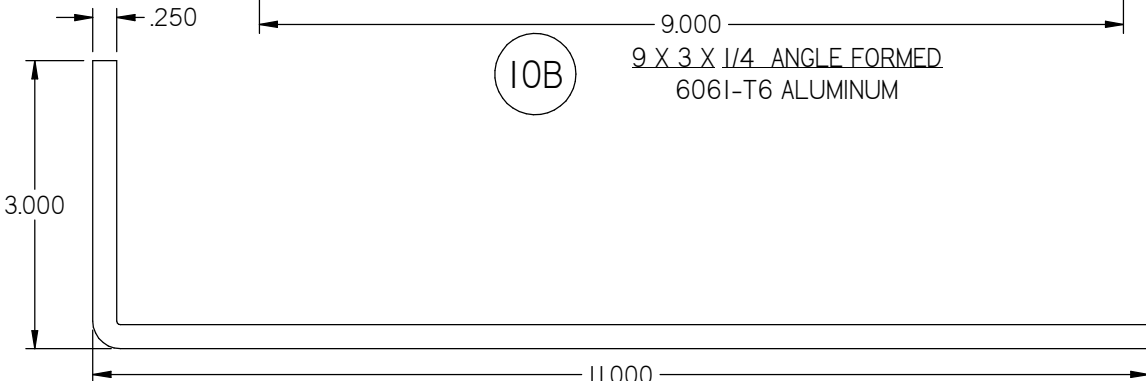
29 MULLION SLEEVE BRACKET  
6061-T6 ALUMINUM



10A LOUVER SUPPORT ANGLE  
6061-T6 ALUMINUM



10B 9 X 3 X 1/4 ANGLE FORMED  
6061-T6 ALUMINUM



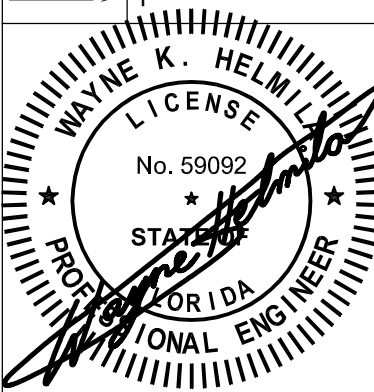
10C 11 X 3 X 1/4 ANGLE FORMED  
6061-T6 ALUMINUM

REVISIONS:  
REV B: ADDED 10A, 9X3 X .25 ANGLE  
10B, 11X3X.25 ANGLE.



Nailor Industries Inc.

4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086



**RICE**

ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmita  
Registration No: 59092

DWN BY: f cortinas

CHK BY: BDennis

DATE: 11/29/2021

SCALE: NTS

1606DHPM LOUVER  
W/ AND W/O DAMPER  
SLEEVE/CONTINUOUS MOUNT  
PART PROFILES CONT.

SHEET: 20 OF 27

DWG. NO.

1606DHPM

REV

B



30A

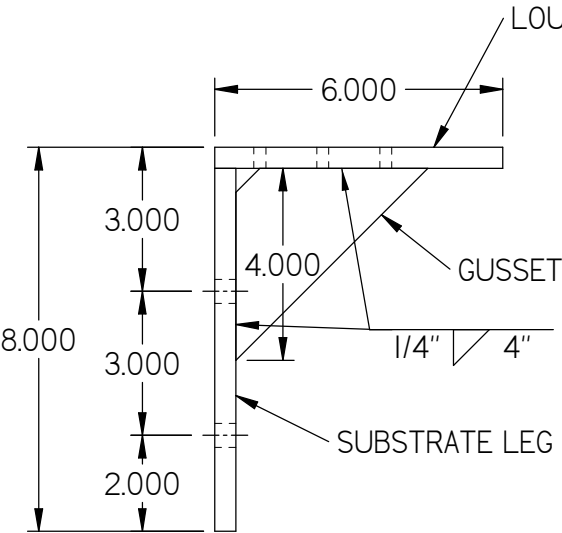
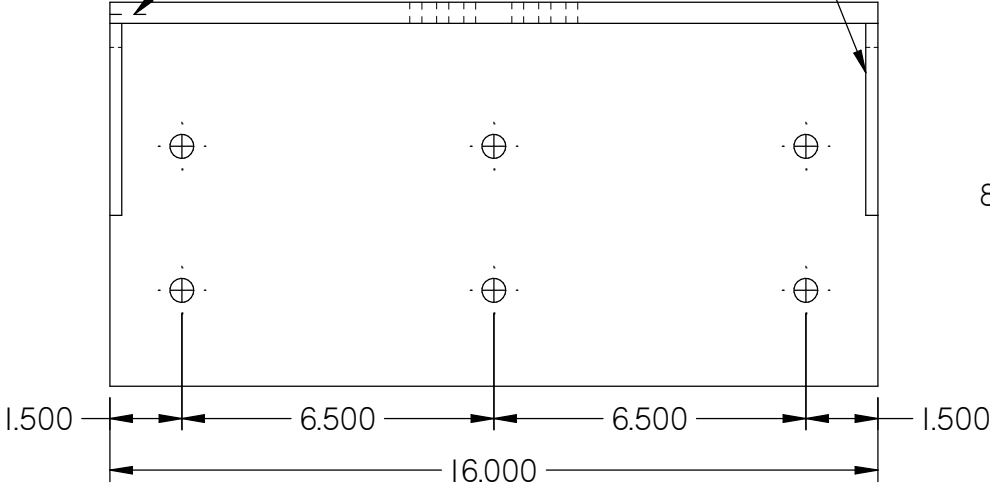
MULLION MOUNTING BRACKET  
FOR MULLION ANGLE BACK OF WALL MOUNT  
ASTM A36

GUSSET SUPPORT  
4 X 4 TRIANGLE  
ONE NEAR EACH END

SUBSTRATE EDGE

1/2" DIA S.S. 316 HILTI KWIK HUS-EZ

USE (6) 1/2" DIA. S.S. 316 HILTI KWIK HUS-EZ  
3" EMBEDMENT  
6.5" SPACING (HORIZ) / 3" SPACING (VERT.)  
3" MIN. EDGE DISTANCE  
4" MIN END DISTANCE  
SPACING AS SHOWN  
ASSUME FC= 4000 PSI CRACKED CONCRETE



L8X6X7/16 AT 16" LONG  
STEEL (A36)

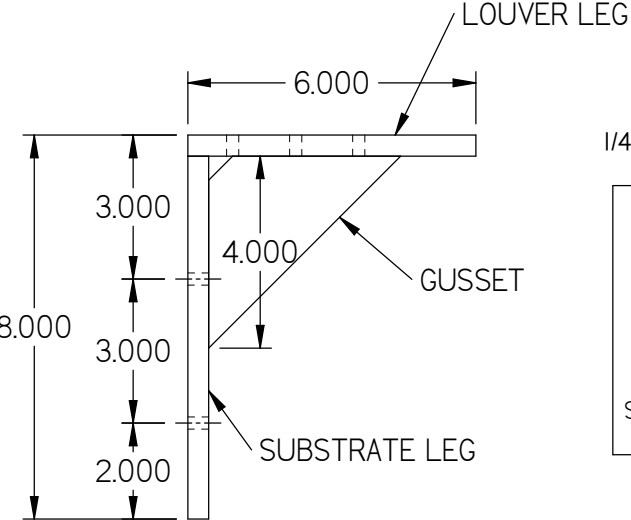
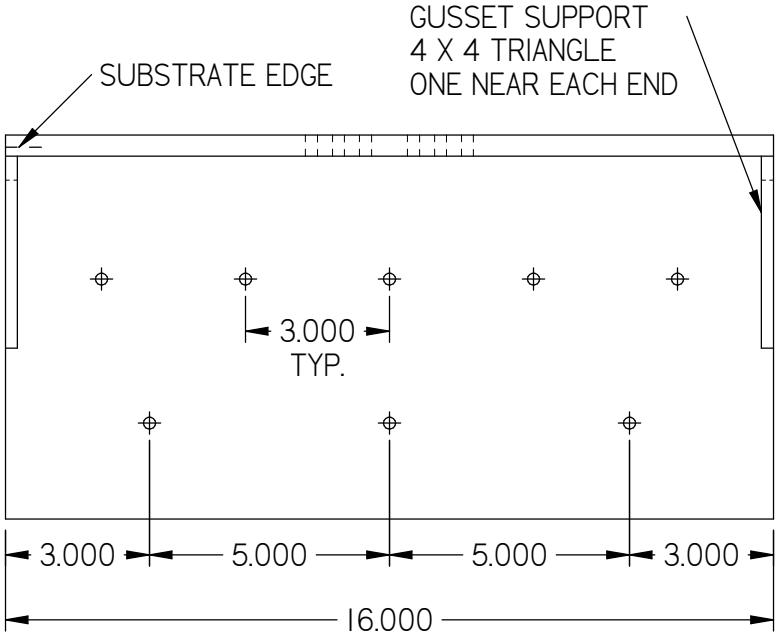
THESE MOUNTING BRACKETS ARE  
FOR DETAILS I2B-I2/27,  
20A-I8/27, 20B-I8/27, AND  
20C-I8/27  
( CONCRETE AND WOOD )

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **24-0516.04**  
Expiration Date **08/30/2028**

By   
**Miami-Dade Product Control**

1/4" DIA LAG SCREWS ANCHORS:

USE (8) 1/4"DIA. X 6" LONG  
STANDARD HEX S.S. SERIES 300  
LAG SCREW  
3-9/32" FULL THREAD ENGAGMENT  
1-1/2" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: SPRUCE/PINE/FIR, SG=0.42

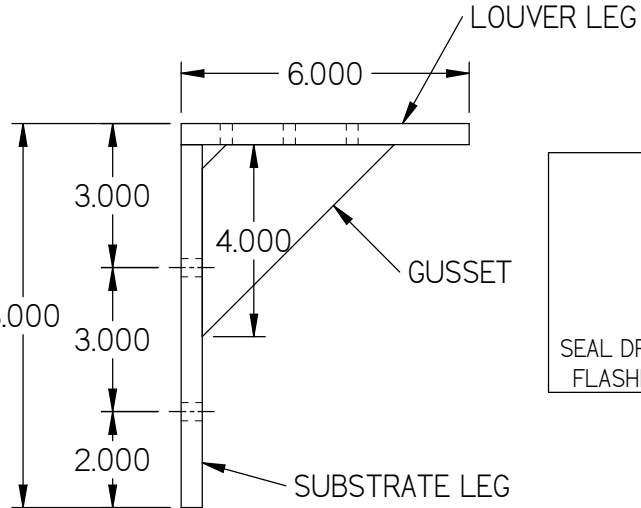
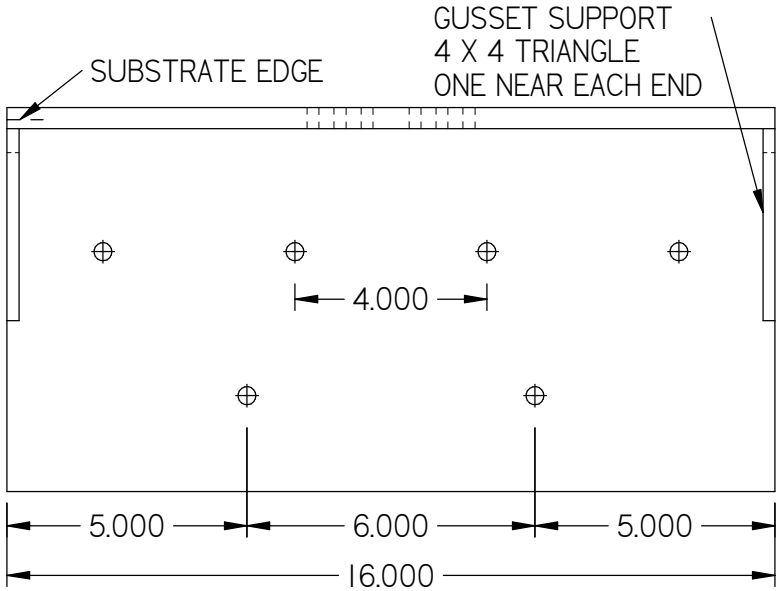


1/4-20 DIA. S.S. ELCO BI-FLEX AND DRIL-FLEX ANCHORS:

USE (8) 1/4" DIA. S.S. SERIES 300  
ELCO BI-FLEX OR  
ELCO DRIL-FLEX FASTENERS  
FULL THREAD ENGAGEMENT  
1" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: 1/4" STEEL (A-36)  
SEAL DRIL-FLEX FASTENERS WITH LIQUID PROSOCO  
FLASHING IF EXPOSED TO EXTERIOR CONDITIONS.

3/8" DIA. LAG SCREWS ANCHORS:

USE (6) 3/8" DIA X 6" LONG  
STANDARD HEX S.S. SERIES 300  
LAG SCREW  
3-9/32"FULL THREAD ENGAGMENT  
1-1/2" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: SPRUCE / PINE / FIR, SG= 0.42



5/16-24 DIA. DRIL-FLEX ANCHORS

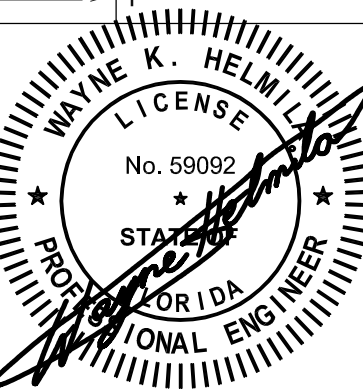
USE (6) 5/16" DIA.  
S.S. ELCO DRIL-FLEX FASTENERS  
FULL THREAD ENGAGMENT  
1" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: 1/4" STEEL (A36)  
SEAL DRIL-FLEX FASTENERS WITH LIQUID PROSOCO  
FLASHING IF EXPOSED TO EXTERIOR CONDITIONS

REVISIONS:  
REV B: UPDATED I6" MULLION BRACKET

Nailor Industries Inc.



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07/23/2024  
COA: 9090

**RICE**

**ENGINEERING**

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www.rice-inc.com

Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

CHK BY: BDennis

DWN BY: fcortinas

SCALE: NTS

DATE: 11/29/2021

SHEET: 21 OF 27

DWG. NO. **1606DHPM**

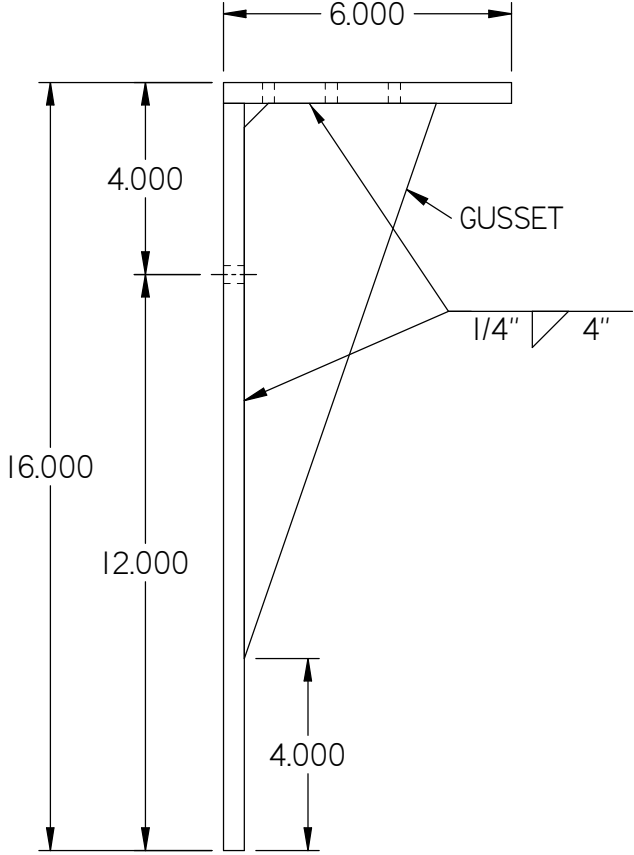
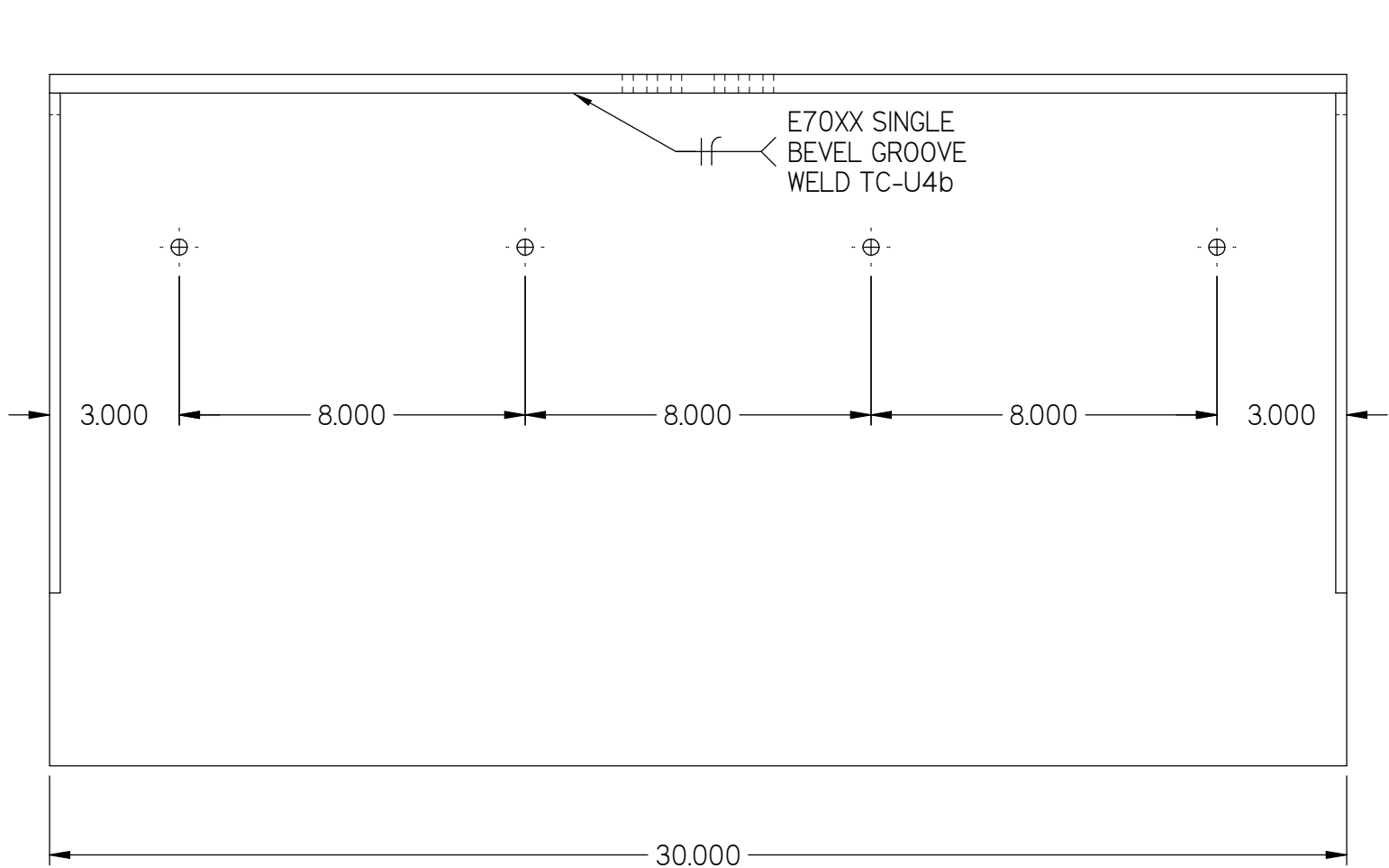
16" MULLION ANGLES  
BACK OF THE WALL MOUNT



30C

MULLION MOUNTING BRACKET  
FOR MULLION ANGLE BACK OF WALL MOUNT  
ASTM A36

USE 16" X 6" X 1/2" STEEL PLATE ANGLE  
AT 30" LONG AS SHOWN ( A36 OR BETTER )  
WELD 1/2" STEEL PLATE ANGLE TOGETHER WITH FULL  
PENETRATION BEVEL GROOVE WELD.  
(2) 1/4" X 4" GUSSET PLATES AT 12" LONG WELDED TO  
EACH END  
WELD 1/4" GUSSET PLATES WITH FILLET WELDS.



USE (4) 1/2" DIA. HILTI KWIK HUZ-EZ SCREW ANCHORS  
4-1/4" EMBEDMENT  
8" SPACING AS SHOWN. LOCATE (I) FASTENER IN THE CENTER OF EACH  
MASONRY CELL. BRACKET CAN BE INSTALL 4" LEFT OR RIGHT OF MULLION  
CENTERLINE SO ANCHORS CAN BE INSTALLED AT CENTER OF MASONRY CELLS.  
4" MIN. EDGE DISTANCE  
4" MIN END DISTANCE  
ASSUME GROUT FILLED MASONRY FM= 2000 PSI (DESIGNED BY OTHERS)  
SEAL FASTENERS WITH LIQUID PROSOCO FLASHING AT EXTERIOR CONDITIONS.

THESE MOUNTING BRACKETS ARE  
FOR DETAILS 10A-10/27,  
12B-12/27, 20A-18/27/  
20B-18/27, AND 20C-18/27  
( GROUT FILLED CMU )

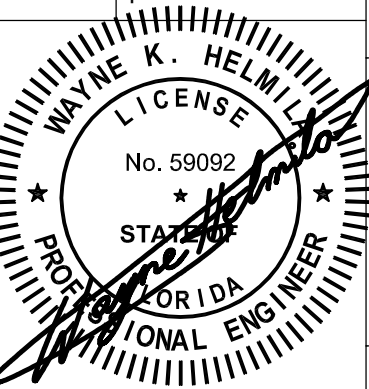
**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No. 24-0516.04**  
**Expiration Date 08/30/2028**  
**By** *[Signature]*  
**Miami-Dade Product Control**

REVISIONS:  
REV B: ADDEDD 30" MULLION BRACKET

Nailor Industries Inc.



4714 Winfield Road Houston, TX 77039  
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07/23/2024  
COA: 9090

**RICE**  
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105 School Creek Trail  
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www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

DWN BY: f cortinas

CHK BY: BDennis

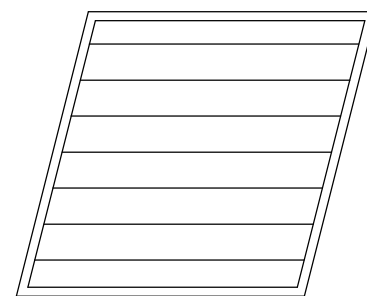
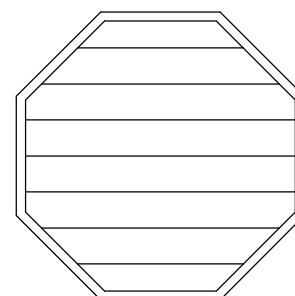
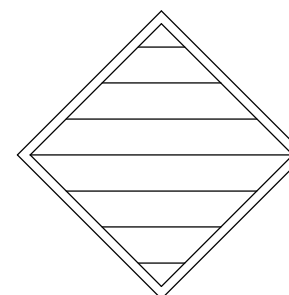
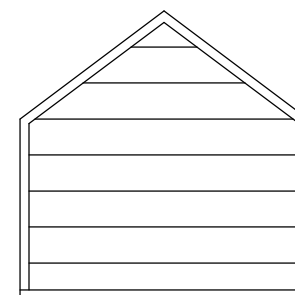
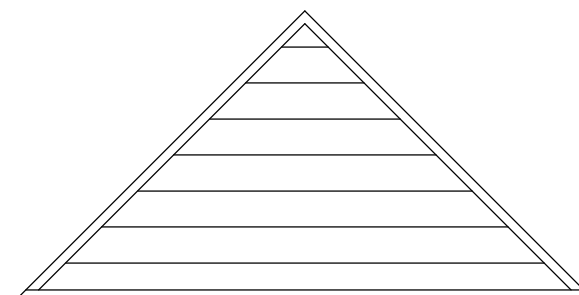
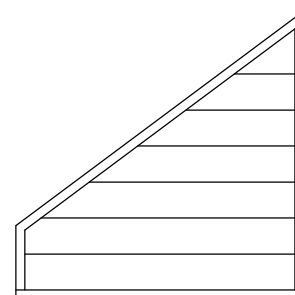
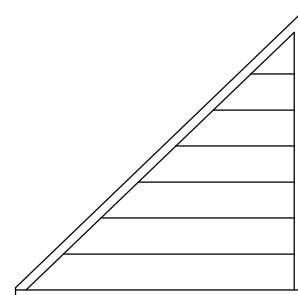
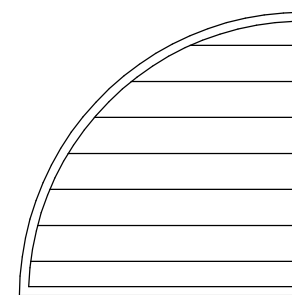
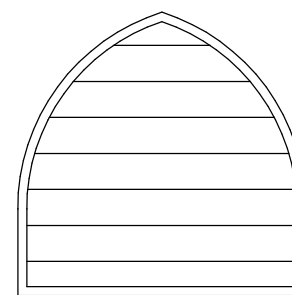
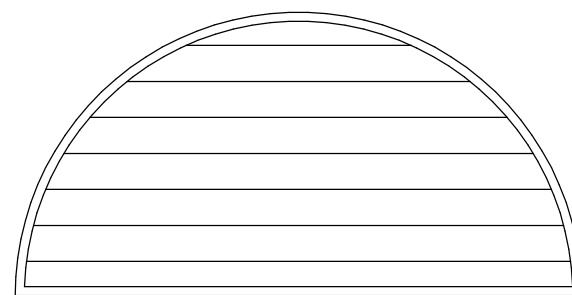
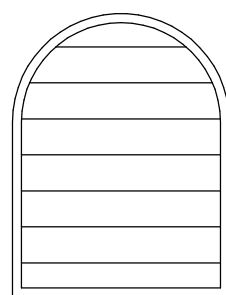
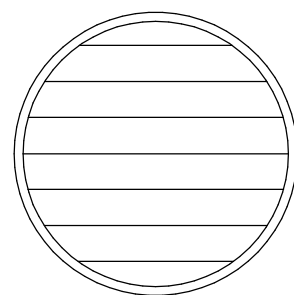
DATE: 11/29/2021

SCALE: NTS

SHEET: 23 OF 27

REV B  
DWG. NO. 1606DHPM

TITLE:  
30" CMU MULLION ANGLES  
BACK OF THE WALL MOUNT



NOTES:

I. OTHER SHAPES MAY APPLY PROVIDING THEY ARE  
SIMILAR TO THOSE SHOWN AND HAVE CORNER  
CONSTRUCTION AS DESCRIBED ON ALL SHEETS.

2. ALL SHAPED LOUVER PANELS ARE RESTRICTED TO THE SAME PANEL WIDTH AND PRESSURE AS THE RECTANGULAR LOUVER PANELS AND BE STACKED VERTICALLY AND HORIZONTALLY THE SAME AS THE RECTANGULAR PANELS.

3. WHEN SECTION EXCEED 36" IN LENGTH BLADE  
SUPPORT ANGLES AND BRACKETS ARE REQUIRED.

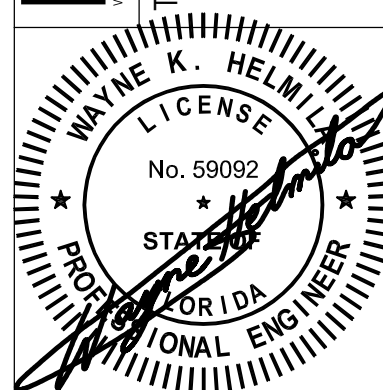
4. USE CONTINUOUS ANGLES TO ANCHOR OTHER LOUVER SHAPES TO BUILDING SUBSTRATE. SEE ANCHOR SCHEDULE FOR SUBSTRATE-SPECIFIC LIMITATIONS.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

**Building Code**  
**NOA-No. 24-0516.04**

**Expiration Date 08/30/2028**

By   
Miami-Dade Product Control



07/23/2024  
COA: 9090

*RICE*

## ENGINEERING

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Luxemburg, WI 54217

Phone: (920) 617-1042

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Florida Firm No: F-01000005061

Certificate of Authorization: #9090

Wayne K. Helmila

Registration No: 59092



**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX

 4714 Winfield Road Houston, TX 77039  
www.napha.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE:

**I606DHPM LOUVER  
W/ AND W/O DAMPER  
AVAILABLE SHAPES**

DWN BY: f cortinas	CHK BY: BDennis
--------------------	-----------------

DATE: 11/29/2021	SCALE: NTS
------------------	------------

SHEET: 24 OF 27

DWG. NO.

# 1606DHPM

REV



A		B		C		D		E		F		G		H		J		K		L	
BILL OF MATERIALS																					
ITEM	DESCRIPTION			MATERIAL			NOTES														
1	C6-139 LOUVER HEAD			6063-T6 ALUMINIUM																	
2	C6-140 LOUVER SILL			6063-T6 ALUMINIUM																	
3	C6-141 LOUVER JAMB			6063-T6 ALUMINIUM																	
4	C6-142 LOUVER BLADE			6063-T6 ALUMINIUM																	
5	C6-168 LOUVER DRAIN			6063-T6 ALUMINIUM																	
6	C6-143 LOUVER BLADE BRACE			6063-T6 ALUMINIUM																	
7	C6-104 MULLION COVER			6063-T6 ALUMINIUM																	
8	C6-096 LOUVER FLANGE			6063-T6 ALUMINIUM																	
9A	C6-176 1 1/2 X 1 1/2 X 1/8 ANGLE CONT.			6063-T6 ALUMINIUM			USED AT HEAD/SILL/JAMB, OF LOUVER AND SLEEVE														
9B	C6-160 2 X 2 X 1/8 ANGLE CONT.			6063-T6 ALUMINIUM			USE AS ATTACHMENT ANGLE														
9C	1 1/2 X 1 1/2 X 3/16 ANGLE CONT.			6063-T6 ALUMINIUM			USE AS ATTACHMENT ANGLE														
10A	C6-161B 6 X 3 X 1/4 ANGLE			6061-T6 ALUMINIUM			USED AT BLADE SUPPORT AND JAMB SUPPORT														
10B	9 X3 X 1/4 ANGLE			6061-T6 ALUMINIUM			FORMED ALUM ANGLE														
10C	11/ X 3 X 1/4 ANGLE			6061-T6 ALUMINIUM			FORMED ALUM ANGLE														
11	1 1/2 X 1 1/2 X 1/4 ANGLE			6063-T6 ALUMINIUM			USED AT HEAD/SILL/JAMB OF SLEEVE														
12A	4 X 2.50 X 1/4 X 3 5/8 LONG ANGLE			6063-T6 ALUMINIUM			USED AT HEAD/ SILL OF MULLION ATTACHMENT														
12B	8 X 3 X 3-5/8 LONG ANGLE			6063-T6 ALUMINIUM			USED AT HEAD/ SILL OF MULLION ATTACHMENT W/ 1/2" LAG														
13	4 X 2.50 X 1/4 3 5/8 LONG ANGLE			6061-T6 ALUMINIUM			USED AT HEAD/ SILL OF LOUVER SLEEVE ATTACHMENT														
14	6 X 4 X 1/4 ALUMININM SUPPORT SHIM			6063-T6 ALUMINIUM			USED AT SILL FOR SUPPORT ANGLE														
15	MULLION STIFFENER ALUM			6063-T6 ALUMINIUM			1/8 FORMED ALUM CHANNEL USED AT MULLION														
16	FORMED SLEEVE 1/8 THK			5052-H32 ALUMINIUM			1/8 FORMED SLEEVE - DEPTH VARIES														
17	B2-610 DAMPER HEAD/SILL			6063-T6 ALUMINIUM																	
18	B2-609 DAMPER JAMB			6063-T6 ALUMINIUM																	
19	B2-527 DAMPER BLADE			6063-T6 ALUMINIUM																	
20	DAMPER BLADE SEAL			SILICONE / RUBBER TYPE			MATERIAL VARIES														
21	DAMPER TOP/BOTTOM CLOSURE			ALUMINIUM																	
22	DAMPER BUSHING			BRONZE / SS																	
23	DAMPER LINKAGE BAR			SS																	
24	DAMPER JAMB SEAL			SS																	
25	NON DRIVE DAMPER AXEL ASM			SS																	
26	DRIVE SIDE DAMPER AXEL ASM			SS																	
27	C6 X 8.2 STEEL CHANNEL			ASTM A36			USED AT BLADE BLACE & MULLION														
29	7" X 21" ALUMINIUM SLEEVE BRACKET			6061-T6			MULLION SLEEVE BRACKET														
30	MULLION MOUNTING ANGLE BRACKET			ASTM A36			MULLION MOUNTING														
31	C6-180			SCREW,MTL,10-24X1,HEX																	
32	C6-181			1/4 NYLON INSERT LOCKNUT																	
33	C6-182			1/4-20x2-1/2 HEX CAP SCREW																	
34	C6-183			WASHER,BONDED,10X1/2,SS			300 SERIES, SS COND. CW FY = 65 KSI														
35	C6-184			SCREW,MTL,12-24-1-1/4,HEX			300 SERIES, SS COND. CW FY = 65 KSI														
36	C6-185			1/4-20x1 HEX SCREW			300 SERIES, SS COND. CW FY = 65 KSI														
37	C6-186			1/4 COMM'L FLAT WASHER			300 SERIES, SS COND. CW FY = 65 KSI														
38	C6-187			1/4-20x1 HEX CAP SCREW 18-8 SS																	
39	C6-188			SCREW, MTL,HEX, 8-32 X 1,			300 SERIES, SS COND. CW FY = 65 KSI														
40	C6-189			SCREW, METAL, HW, 10-24 X 1-1/2,			300 SERIES, SS COND. CW FY = 65 KSI														
41	C6-192			SCREW, MTL, HEX, 8 X 1-1/2,			300 SERIES, SS COND. CW FY = 65 KSI														
42	C6-193			SCREW, METAL, HEX, 1/4-20 X 1-1/2			300 SERIES, SS COND. CW FY = 65 KSI														
43	C6-194			SCREW, METAL, HEX, 12 X 1-1/2, SS			300 SERIES, SS COND. CW FY = 65 KSI														
44	C6-195			1/4-20 X 1 1/4 HEX CAP SCREW 18-8 S/S																	
45	C6-196			1/4-20 FIN. HEX NUT 18-8 S/S																	
46	C6-197			1/4 LOCKWASHER 18-8 S/S																	
47	C6-198			SCREW, MTL, HEX, 8 X 3/4,			300 SERIES, SS COND. CW FY = 65 KSI														
48				3/8"-16 X 2 18-6 HEX HEAD BOLT SS			300 SERIES, SS COND. CW FY = 65 KSI														
49				3/8-16 HEX LOCK NUT SS			300 SERIES, SS COND. CW FY = 65 KSI														
50				3/8-FLAT WASHER SS			300 SERIES, SS COND. CW FY = 65 KSI														

Nailor Industries Inc.

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www.nailor.com

TEL: 281-590-1172 FAX: 281-590-3086

1606DHPM LOUVER

W/ AND W/O DAMPER

SLEEVE / CONTINUOUS MOUNT

BILL OF MATERIAL

CHK BY: BDennis

DWN BY: fcortinas

DATE: 11/29/2021

SCALE: NTS

SHEET: 25 OF 27

DWG. NO. 1606DHPM

REV B

07/23/2024


COA: 9090

PRODUCT REVISED

as complying with the Florida Building Code

NOA-No. 24-0516.04

Expiration Date 08/30/2028

By  Miami-Dade Product Control

REVISIONS:

REV B: UPDATED BILL OF MATERIAL

WAYNE K. HELMILA

LICENSE

No. 59092

STATE OF FLORIDA

PROFESSIONAL ENGINEER

07/23/2024

COA: 9090

RICE

ENGINEERING

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Fax: (920) 617-1100


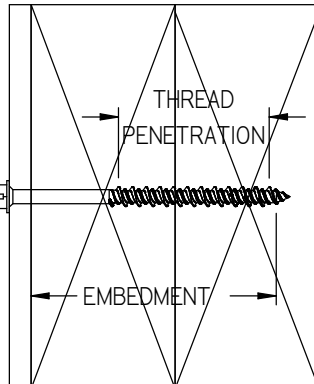
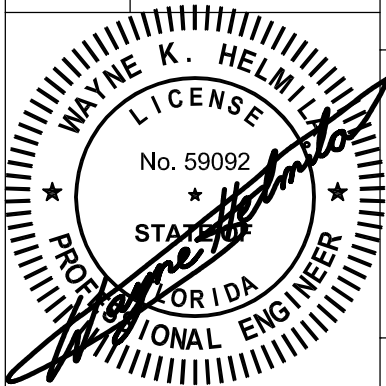
www.rice-inc.com

Florida Firm No: F-01000005061

Certificate of Authorization: #9090

Wayne K. Helmila

Registration No: 59092

A	B	C	D	E	F	G	H	J	K	L		
*EMBEDMENT DEPTH IS EQUAL TO OVERALL LENGTH FOR CONCRETE /CMU FASTENERS. IF SHIMS ARE USED, FASTENER LENGTH MUST BE INCREASED BY THICKNESSOF SHIMS												
LOUVER MODEL I606DHPM FASTENER TABLES												
JAMB ANGLE MOUNT FASTENER, WIDTH ≤ 72 INCHES ( TABLE 1 )												
WOOD	STEEL STUD	STEEL	CONCRETE	CMU	MIN.	FASTENER TYPE	DIAMETER	# Rqd	CENTERS	EDGE	END	EMBEDMENT
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	1	3"	2"		2"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	1	5"	2"		2"
	X				16 Ga.	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	1	4-1/2"	2"		3 THREAD BEYOND SUBSTRATE
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	1	13-1/2"	2"		1/4"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	1	20"	2"		1/4"
			X-CRACKED 6" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 ANCHOR	1/4"	1	7"	4"		2"
			X-CRACKED 6" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 ANCHOR	3/8"	1	12"	4"		2"
				X	2ksi	HILTI KWIK HUS-EZ SS316 ANCHOR	3/8"	1	12"	4"		3-1/4"
				X	2ksi	DEWALT GALVANIZED SCREW-BOLT+ ANCHOR	3/8"	1	4-1/2"	1-1/2"	1-1/2"	3-1/4"
MULLION ANGLE MOUNT FASTENERS, HEIGHT ≤ 120 INCHES (TABLE 2)												
WOOD	STEEL STUD	STEEL	CONCRETE	CMU	MIN.	FASTENER TYPE	DIAMETER	# Rqd / CLIP	CENTERS	EDGE	END	EMBEDMENT
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	10	1-1/4 X 7/8	2"		2-5/8 "
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	6	2-1/8 X 3	2"		1-5/8"
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	4	2-1/2"X 2-5/8"	2"		1/4"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS ( COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	4	2-1/2" X 2-5/8"	2"		1/4"
MULLION ANGLE MOUNT BACK OF WALL FASTENERS, HEIGHT ≤ 120 INCHES ( TABLE 3 )												
WOOD	STEEL STUD	STEEL	CONCRETE	CMU	MIN.	FASTENER TYPE	DIAMETER	# Rqd	CENTERS	EDGE	END	EMBEDMENT
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	8	VARIES	1"		3-11/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	10	VARIES	1"		3-11/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	6	VARIES	1-1/2"		3-9/32"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	8	VARIES	1-1/2"		3-9/32"
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	8	VARIES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO BI-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	10	VARIES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS ( COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	6	VARIES	1"		FULL THREAD ENGAGEMENT
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS ( COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	8	VARIES	1"		FULL THREAD ENGAGEMENT
			X-CRACKED 8" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 **	1/2"	6	6-1/2 X 3	3"	4"	3"
			X-CRACKED 8" DEEP		4ksi	HILTI KWIK BOLT EZ SS 300 SERIES **	1/2"	8	5 X 3	3"	4"	4-1/4"
				X	2ksi	HILTI KWIK HUS-EZ SCREW ANCHORS - SEAL w/ LIQUID PROSOCO @ EXTERIOR CONDITIONS	1/2"	4	8"	4"	4"	4-1/4"
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 24-0516.04 Expiration Date 08/30/2028 By  Miami-Dade Product Control												
												
REVISIONS: REV B: UPDATED FASTENER TABLES												
DWN BY: f cortinas										CHK BY: BDennis		
DATE: 11/29/2021										SCALE: NTS		
Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086												
TITLE: I606DHPM LOUVER W/ AND W/O DAMPER FASTENER TABLES												
												
08/14/2024 COA: 9090												
RICE ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092												

	A	B	C	D	E	F	G	H	J	K	L			
1	<p>GENERAL NOTES:</p> <p>1. IT SHALL BE THE RESPONISBILITY OF THE ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVER(S).</p> <p>2. THE 1606DHPM WITH /WITHOUT DAMPER HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS TAS 100(A) WIND DRIVEN RAIN, TAS-201 (IMPACT), TAS-202 (UNIFORM STATIC PRESSURE) , AND TAS-203 (CYCLIC FATIGUE).</p> <p>3. MAXIMUM SINGLE SECTION SIZE IS 72" WIDE X 120" HIGH.</p> <p>4. MAXIMUM ASSEMBLED LOUVER SIZE IS UNLIMITED WIDE X 120" HIGH.</p> <p>5. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.</p> <p>6. CMU SHALL BE ASTM C90, TYPE II, 2,000 MIN PSI GROUT-FILLED, STEEL STUDS TO BE 16 G.A. FY=50ksi MIN.</p> <p>7. THE SLEEVE MOUNT STYLE LOUVER UTILIZES AN ANCHORLESS INSTALLATION METHOD THAT DOES NOT REQUIRE THE USE OF FASTENERS INTO THE SUBSTRATE. IT MAY BE INSTALLED IN ANY SUBSTRATE THAT WILL WITHSTAND THE LOADS TRANSFERRED TO IT BY THE LOUVER. NAILOR IND. DOES NOT DETERMINE THE STRUCTURAL INTERGRITY OF THE SUBSTRATE STRUCTURE.</p> <p>8. THE CONTINUOUS ANGLE MOUNT STYLE UTILIZES A CONTINUOUS JAMB ANGLETHAT IS ATTACHED TO THE SUBSTRATE BY FASTENERS. IT MAY BE INSTALLED IN CONCRETE, CMU, STEEL, OR WOOD ACCORDING TO THE FASTENER SCHEDULE. NAILOR IND. DOES NOT DETERMINE THE STRUCTRAL INTERGRITY OF THE SUBSTRATE STUCTURE.</p> <p>9. LOUVER ASSEMBLY IS QUALIFIEDFOR A MAXIMUM DESIGN LOAD OF <math>\pm</math> 150 PSF.</p> <p>10. LOUVER ASSEMBLY WITH AND WITHOUT DAMPER SHALL ONLY BE 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 RESISTANT / WATER PROOF EQUIPMENT, COMPONENTS, AND / OR SUPPLIES.</p> <p>11. INSTALLER TO PROVIDE SEPERATION OF DISSIMILAR MATERIALS AS REQUIRED.</p> <p>12. THE 2020 DAMPER MAY BE OPERATIED BY A MANUAL QUADRANT OR BY AN ELECTRIC OR PNEUMATIC ACTUALTOR, THE DAMPER'S ACTUATOR IS NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.</p> <p>13. FRAME CONSTRUCTION, HEAD AND SILL ARE SQUARE CUT, JAMBS ARE SQUARE CUT @ HEAD AND SILL. CORNERS ARE SECURED WITH (2) #10-24 x 1 1/2 HW, BLADES ARE SECURED TO JAMBS WITH (4) #10-24 X 1 1/2 HW, @ EACH END.</p> <p>14. STEEL / STAINLESS-STEEL/ ALUMINIUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THA HAS EQUAL OR GREATER YIELD STRENGTH.</p> <p>15. BLADE SUPPORT ANGLE AND BLADE SUPPORT BRACE ONLY REQUIRED WHEN ACTUAL LOUVER SECTION WIDTH IS GREATER THAN 36 INCHES.</p> <p>16. THREAD PENETRATION LENGTH SIGNIFIES THE REQUIRED LENGTH OF THE THREADED PORTION OF THE FASTENER INTO THE WOOD SUBSTRATE PROVIDING FULL CONTACT WITH WOOD. LAG SCREW TIP CANNOT BE CONSIDERED PART OF THE THREADED PORTION OF THE SCREW. LAG SCREWS ARE NOT TO BE INSTALLED AT WOOD JOINTS/SPLICES WHERE THE LAG SCREW COULD FALL BETWEEN MEMEBERS.</p> <p>** NOTE ENGINEER OF RECORD ( EOR ) IS RESPONSIBLE FOR DETERMINING IF CONCRETE IS TO BE CONSIDERED CRACKED OR UNCRACKED.</p>										CHK BY: BDennis	SCALE: NTS	SHEET: 27 OF 27	REV B
2	DWN BY: fcortinas	DATE: 11/29/2021	DWG. NO. 1606DHPM											
3	Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086		TITLE: 1606DHPM LOUVER W/ AND W/O DAMPER GENERAL NOTES											
4														
5	<p><b>PRODUCT REVISED</b> as complying with the Florida Building Code NOA-No. <b>24-0516.04</b> Expiration Date <b>08/30/2028</b> By  <b>Miami-Dade Product Control</b></p>													
6														
7														
	REVISIONS: REV B: ADDED GENERAL NOTES PAGE													
	A	B	C	D	E	F	G	H	J	K	L			