



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

NOTICE OF ACCEPTANCE (NOA)

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

Arrow United Industries a division of Mestek, Inc.
450 Riverside Drive
Wyalusing, PA 18853

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 EAV-66 6" Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. **1504**, titled "EAV-66 Vertical Louver System", sheets 1 through 9 of 9, dated 10/18/2006, with last revision D dated 06/08/2026, prepared by W. W. Schaefer Engineering and consulting, P.A., signed and sealed, by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and the 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 # **23-0713.11** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4 as well as approval document mentioned above.

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



07/07/26

NOA No. 26-0624.04
Expiration Date: March 15, 2032
Approval Date: July 16, 2026
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs

A. DRAWINGS “Submitted under NOA #16-0808.13”

1. Drawing No. **1504**, titled “EAV-66 Vertical Louver System”, sheets 1 through 9 of 9, dated 10/18/2006, with last revision C dated 08/01/2016, prepared by W. W. Schaefer Engineering and consulting, P.A., signed and sealed, by Warren W. Schaefer, P.E.

B. TESTS “Submitted under NOA # 08-0904.01”

1. Test report on Large Missile Test (Level E) and on Cyclic Load Test per ASTM 1886/1996 of an **EAV-66 Aluminum Louver System**, prepared by Hurricane Test Laboratories LLC., Test Report No. **0198-0109-07**, dated 03/08/2007, signed and sealed by Vinu J. Abraham, P.E.
2. Test report on Wind Driven Rain Test per TAS 100(A) of an EAV-66 Aluminum Louver with AFD-20 Damper, prepared by PRI Construction Materials Technologies, LLC, Test Report No. **AWV-006-02-01**, dated 02/07/2008, signed and sealed by Duc T. Nguyen, P.E.
3. Test report on Wind Driven Rain Test per TAS 100(A) of an EAV-66 Aluminum Louver with AC-525, prepared by PRI Construction Materials Technologies, LLC, Test Report No. **AWV/AUI-006-02-01**, dated 02/14/2008, signed and sealed by Duc T. Nguyen, P.E.

“Submitted under NOA # 06-1211.03”

4. Test report on Large Missile Impact Test per FBC, TAS 201, Cyclic Wind Pressure Test per FBC, TAS 203 and Uniform Static Air Pressure Test per FBC, TAS 202 of an EAV-66 Aluminum Louver System, prepared by Hurricane Test Laboratories, LLC, Report No. **0198-0712-06**, dated 11/07/2006, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS “Submitted under NOA #16-0808.13”

1. Anchor calculations prepared by W.W. Schaefer Engineering and Consulting P.A., dated 08/01/2016, signed and sealed by Warren W. Schaefer, P.E.

“Submitted under NOA # 11-1115. 02”

2. Anchor calculations prepared by W.W. Schaefer Engineering and Consulting P.A., dated 11/07/2011, signed and sealed by Warren W. Schaefer, P.E.

“Submitted under NOA # 08-0904.01”

3. Anchorage, stress and deflection calculations of the Louver System with AFD-20 Dampers, sheets 1 through 4 of 4 and with AC-525/526 Dampers, sheets 1 and 2 of 2, both dated 07/22/2008, prepared by W.W. Schaefer Engineering and Consulting P.A., signed and sealed by Warren W. Schaefer, P.E.

“Submitted under NOA # 06-1211.03”

4. Anchorage calculations, 13 pages for Arrow United Industries, **Model EAV-66** Vertical Louver, prepared by W.W. Schaefer Engineering and Consulting P.A., signed and sealed on 11/07/2006 by Warren W. Schaefer, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
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D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS “Submitted under NOA #16-0808.13”

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by W.W. Schaefer Engineering and Consulting P.A., dated 08/01/2016, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest issued by W.W. Schaefer Engineering and Consulting P.A., dated 08/01/2016, signed and sealed by Warren W. Schaefer, P.E.

2. EVIDENCE SUBMITTED UNDER NOA # 20-0622.12

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. None.

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 6th Edition (2017) and 7th Edition (2020) FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 06/03/2020, signed and sealed by Warren W. Schaefer, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 26-0624.04
Expiration Date: March 15, 2032
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER NOA # 21-1228.08

A. DRAWINGS

1. Drawing No. **1504**, titled "EAV-66 Vertical Louver System", sheets 1 through 9 of 9, dated 10/18/2006, with last revision C dated 08/01/2016, prepared by W. W. Schaefer Engineering and consulting, P.A., signed and sealed, by Warren W. Schaefer, P.E. on 12/17/2021.

B. TESTS

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 (Level E, 80 fps)
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with installation diagram of Model EAV-66 Aluminum Louvers, prepared by Intertek, Test Report No. **M9248.01-109-18**, dated 12/14/2021, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 7th Edition (2020) of the FBC, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 12/17/2021, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest issued by W.W. Schaefer Engineering and Consulting P.A., dated 12/17/2021, signed and sealed by Warren W. Schaefer, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER NOA # 23-0713.11 AND NEW

A. DRAWINGS

1. Drawing No. **1504**, titled “EAV-66 Vertical Louver System”, sheets 1 through 9 of 9, dated 10/18/2006, with last revision D dated 06/08/2026, prepared by W. W. Schaefer Engineering and consulting, P.A., signed and sealed, by Warren W. Schaefer, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 9th Edition (2026) of the FBC, including special limitation note that anchors in saltwater environment must meet corrosion resistance requirements of FBC, Chapter 17, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 07/01/2026, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest issued by W.W. Schaefer Engineering and Consulting P.A., dated 06/08/2026, signed and sealed by Warren W. Schaefer, P.E.
3. Statement letter of code conformance to the 7th Edition (2020) and the 8th Edition (2023) of the FBC, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 07/01/2023, signed and sealed by Warren W. Schaefer, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 26-0624.04
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The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT PRODUCTS.
5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
7. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
11. EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS: "ARROW UNITED INDUSTRIES, WYALUSING, PA, MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED".
12. ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
13. ALL WOOD SUBSTRATE SHALL BE MIN. $G = 0.55$ DENSITY.
14. ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. 50 KSI STUDS.
15. ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 12 GAGE $F_y = 36$ KSI.
16. INDIVIDUAL PANEL WIDTHS ARE UNLIMITED IN DIMENSION. PANEL HEIGHTS ARE LIMITED BY THE DIMENSIONS SHOWN IN THE ELEVATIONS.
17. INDIVIDUAL PANELS MAY BE STACKED HORIZONTALLY IN AN UNLIMITED QUANTITY. IT IS THE RESPONSIBILITY OF THE SUPPORTING STRUCTURES DESIGN ENGINEER/ARCHITECT TO INSURE THE SUPPORTING STRUCTURE WILL SUPPORT ALL DESIGN LOADS TRANSFERRED BY THE LOUVERS.
18. THESE LOUVERS HAVE PASSED TESTING IN ACCORDANCE WITH ASTM E1886 & E1996 FOR ESSENTIAL FACILITIES LEVEL "E" 80 FT/S LARGE MISSILE IMPACT SPEED. THEREFORE, THESE LOUVER SYSTEMS ARE APPROVED FOR USE WITH ESSENTIAL FACILITIES.
19. THIS SYSTEM HAS BEEN TESTED FOR WATER INFILTRATION RESISTANCE AND IS A WATER RESISTANT SYSTEM WHEN AN AFD-20 OR AC525/526 DAMPER IS INSTALLED WITH THE LOUVER PANEL.
20. UNLESS THE AFD-20 OR AC525/526 DAMPER IS ATTACHED TO THE LOUVER, THE LOUVER 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/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.

CORNER & BLADE END CONSTRUCTION

BLADE TO HEAD & SILL:
BLADE END IS SQUARE CUT, BUTTED AND JOINED TO HEAD AND SILL WITH TWO NO. 8 X 1" S.S. SMS SCREWS PER BLADE END.
HEAD & SILL TO JAMB:
SIDE JAMB IS SQUARE CUT, BUTTED AND JOINED TO HEAD AND SILL WITH TWO 1/4" X 1" SELF TAPPING SCREWS.

FASTENER SCHEDULE

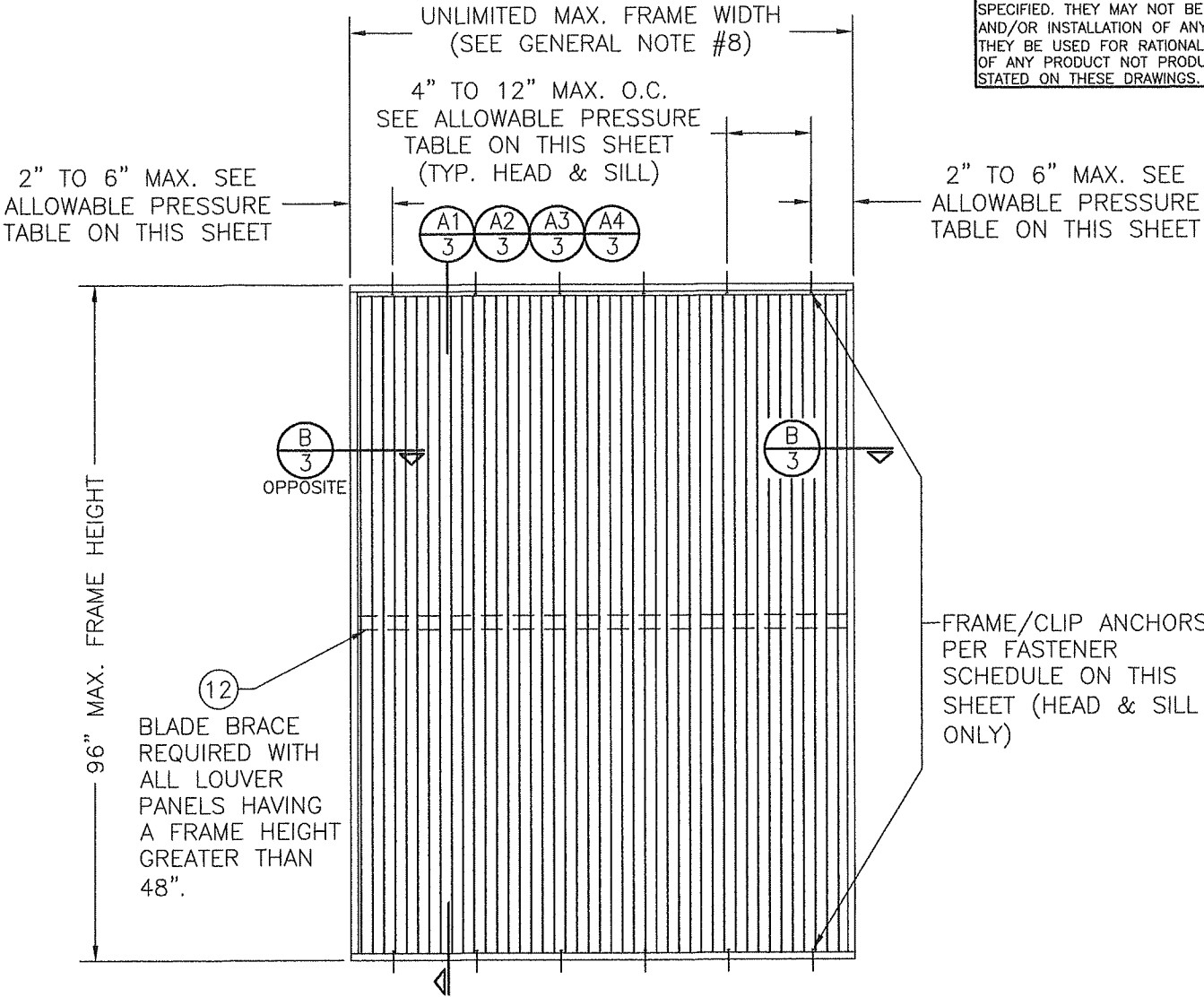
ANCHOR TYPE	(4) SUBSTRATE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
(3)NO. 10 S.S. SCREW	WOOD	1 1/4"	3/4"
(5)NO. 10-16 SELF TAPPING/DRILLING SCREW	METAL STUD	FULL	3/4"
(1)1/4" CONCRETE SCREW	CONCRETE	1 1/2"	2"
(2)1/4" BOLT	STEEL OR METAL STUD	FULL	3/4"
(5)1/4-20 OR 1/4-14 SELF TAPPING/DRILLING SCREW	STEEL	FULL	3/4"

- (1)CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) BOLT SHALL BE MIN. A307 GALVANIZED OR 304 S.S. ($F_v = 10,000$ PSI MIN.)
- (3) SMS WOOD SCREWS SHALL HAVE MIN. YIELD STRENGTH OF $F_y = 80,000$ PSI
- (4) SEE GENERAL NOTES FOR SUBSTRATE REQUIREMENTS.
- (5) SELF TAPPING SCREWS SHALL BE CORROSION RESISTANT MIN. SAE GRADE 2 STEEL OR MIN. ALLOY GROUP 1, 2 & 3 CONDITION "A" STAINLESS STEEL.

(2) ALLOWABLE DESIGN PRESSURE & ANCHOR SPACING REQUIREMENTS (LOUVER PANELS)

(1) MAX. ANCHOR SPACING	(1) MAX. ANCHOR END DISTANCE	ALLOWABLE PRESSURE
4"	2"	+/-150 PSF
8"	4"	+/-75 PSF
12"	6"	+/-50 PSF

- (1) WHEN LOUVERS ARE USED TO PROTECT ESSENTIAL FACILITIES, MAX. ANCHOR SPACING SHALL NOT EXCEED 4" & MAX. ANCHOR END DISTANCE SHALL NOT EXCEED 2" REGARDLESS OF PRESSURE REQUIRED.
- (2) FOR ALLOWABLE PRESSURE ON DAMPERS, SEE SHEET 5 OR 7.

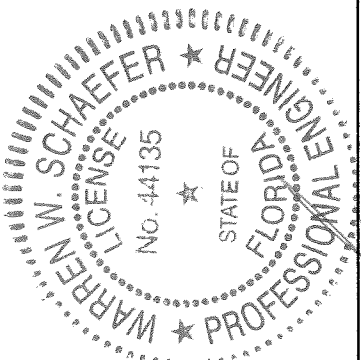


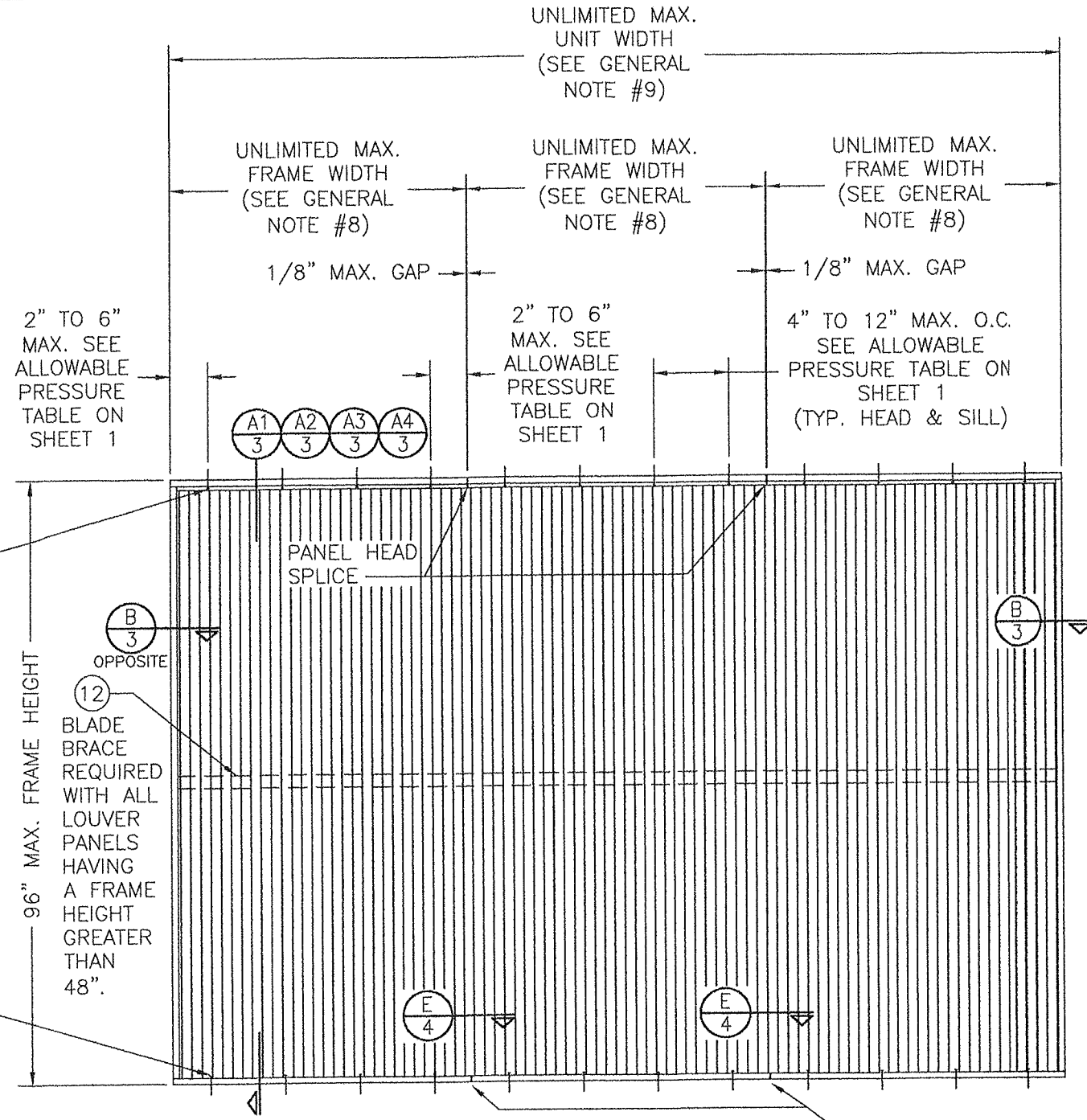
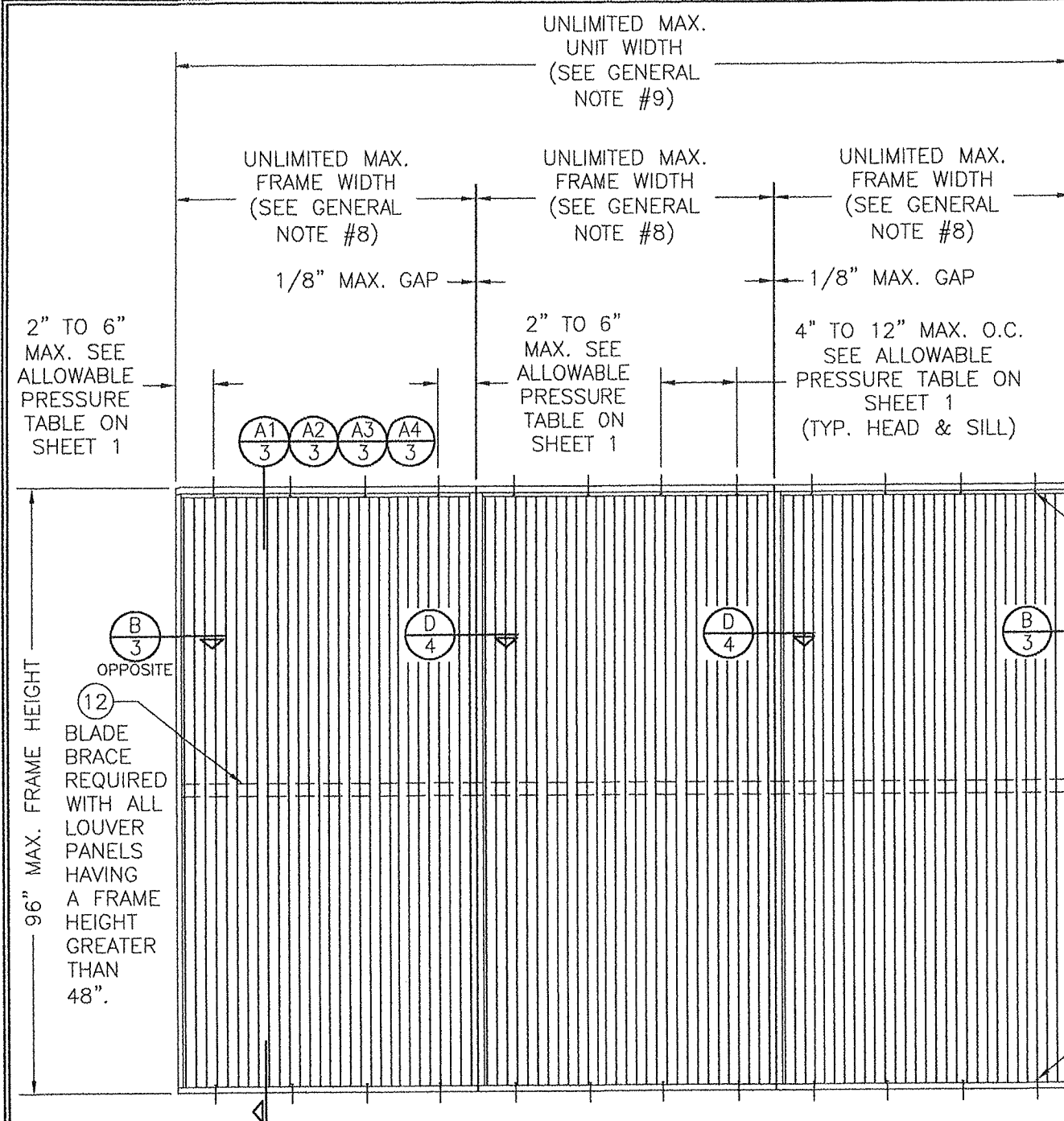
EXTERIOR ELEVATION
SINGLE LOUVER PANEL
(ARCHITECTURAL & NON-ARCHITECTURAL)
SCALE: 1/2" = 1'-0"

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/18/06	
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO PRESENT STANDARDS	W.W.S.	07/14/08
A2	ADDED DAMPER CONDITIONS	W.W.S.	07/14/08
A3	ADDED ESSENTIAL FACILITIES USE	W.W.S.	07/14/08
B	UPDATE TO CURRENT STANDARDS	W.R.M.	11/08/11
C	UPDATE TO CURRENT STANDARDS	W.W.S.	08/01/16
D	UPDATE BORDER INFO	W.W.S.	06/08/26
EAV-66 VERTICAL LOUVER SYSTEM			
MANUFACTURER		ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS		W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983	
DRAWING TITLE		CERTIFICATION	
JUN 08 2026		WARREN W. SCHAEFER P.E. NO. 44135	
DRAWING NO. 1504		REV. D	
SHEET NO. 1 OF 9			

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0624.04
Expiration Date 03/15/2032
By *Warren W. Schaefer*
Miami-Dade Product Control

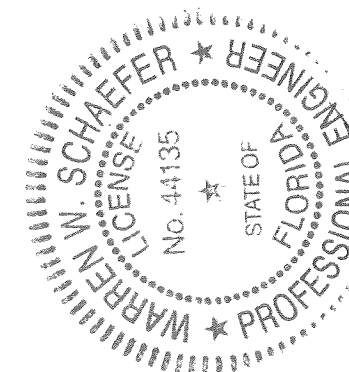




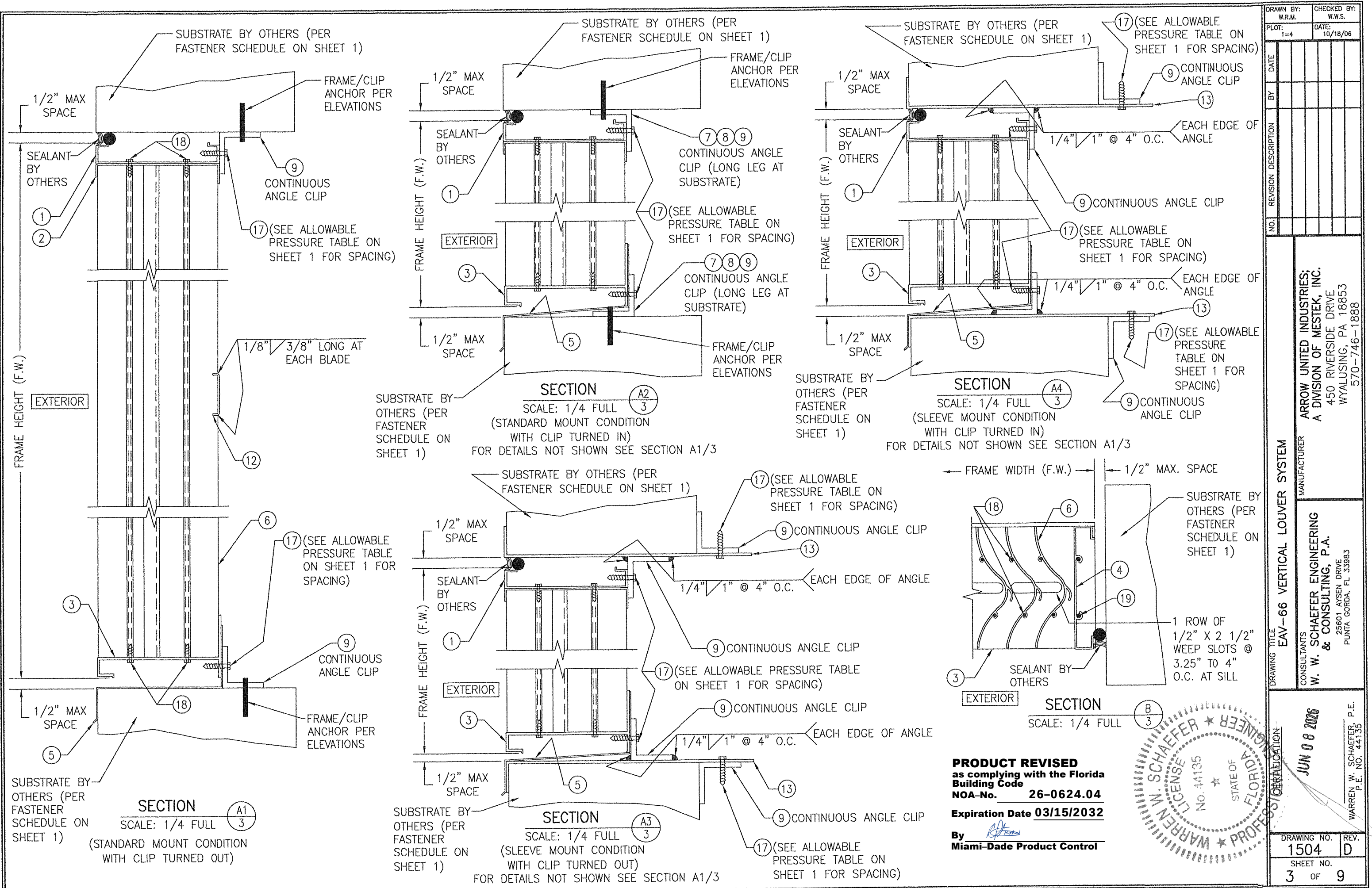
—FRAME/CLIP ANCHORS PER
FASTENER SCHEDULE ON SHEET 1
(HEAD & SILL ONLY)

EXTERIOR ELEVATION
MULTIPLE LOUVER PANELS
(ARCHITECTURAL)
SCALE: 1/2" = 1'-0"

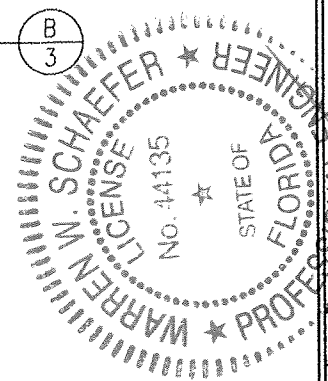
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0624.04
Expiration Date 03/15/2032
By 
Miami-Dade Product Control



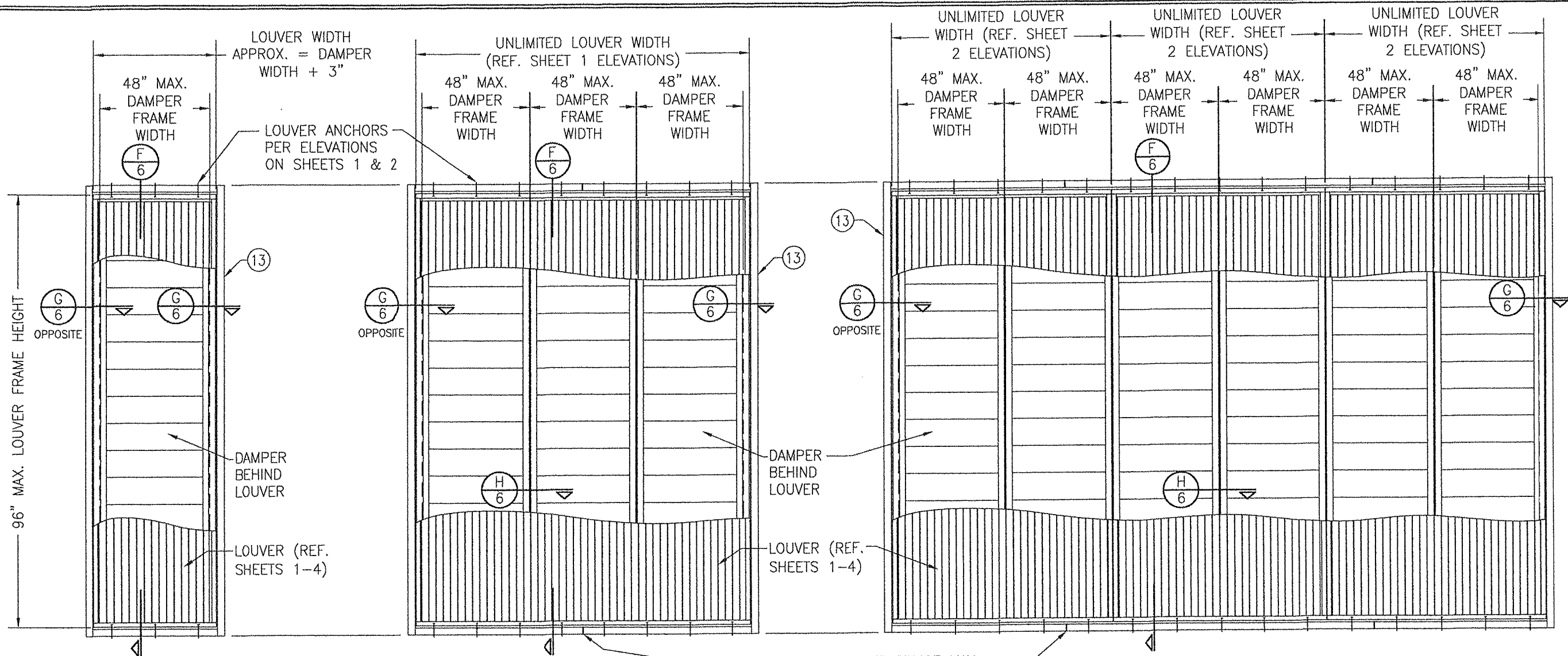
DRAWING NO.		REV	
1504		D	
SHEET NO.			
2 OF 9			
CERTIFICATION  JUN 08 2026 WARREN W. SCHAEFER, P.E.		DRAWING TITLE EAV-66 VERTICAL LOUVER SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983		MANUFACTURER ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
NO. REVISION DESCRIPTION BY DATE		DRAWN BY: W.R.M. CHECKED BY: W.W.S. PLOT: 1=24 DATE: 10/18/06	



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0624.04
Expiration Date 03/15/2032
By *W. Schaefer*
Miami-Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 10/18/06
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE EAV-66 VERTICAL LOUVER SYSTEM	
MANUFACTURER ARROW UNITED INDUSTRIES, INC. A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983	
DATE JUN 08 2006	
DRAWING NO. 1504	
REV. D	
SHEET NO. 3 OF 9	



**EXTERIOR ELEVATION:
SINGLE LOUVER PANEL WITH A
SINGLE AFD-20 DAMPER**

SCALE: 1/2" = 1'-0"

**EXTERIOR ELEVATION:
SINGLE LOUVER PANEL WITH
MULTIPLE AFD-20 DAMPERS**

SCALE: 1/2" = 1'-0"

- 1) NUMBER OF DAMPERS BEHIND A LOUVER PANEL IS UNLIMITED.
- 2) EACH INDIVIDUAL DAMPER PANEL IS LIMITED TO A 48" FRAME WIDTH.

SUPPORT SLEEVE SPLICE MAY OCCUR MID-WAY BETWEEN ANCHORS AT ANY LOCATION PROVIDING NO SLEEVE SECTION LENGTH IS LESS THAN THE DAMPER PANEL FRAME WIDTHS. SPLICING OF SLEEVES SHALL BE DONE IN A MANNER THAT DOES NOT ALLOW WATER LEAKAGE THROUGH THE SPLICE.

**EXTERIOR ELEVATION:
MULTIPLE LOUVER PANELS WITH
MULTIPLE AFD-20 DAMPERS**

SCALE: 1/2" = 1'-0"

- 1) NON-ARCHITECTURAL LOUVERS SHOWN. ARCHITECTURAL LOUVERS ALSO APPLY.
- 2) MORE THAN 1 DAMPER MAY BE PLACED BEHIND EACH LOUVER PANEL.
- 3) DAMPER MULLIONS/SEAMS DO NOT HAVE TO ALIGN WITH LOUVER PANEL SEAMS.
- 4) EACH INDIVIDUAL DAMPER PANEL IS LIMITED TO A 48" FRAME WIDTH.

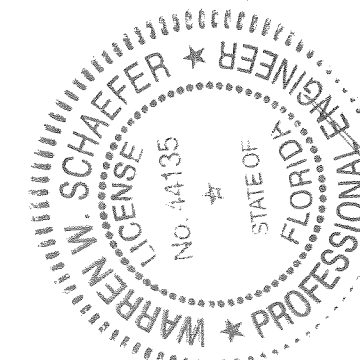
ALLOWABLE DESIGN PRESSURE (AFD-20 DAMPERS)

MAX. DAMPER FRAME HEIGHT (IN.)	MAX. DAMPER FRAME WIDTH (1) (IN.)	ALLOWABLE PRESSURE (+/- PSF)	MAX. DAMPER FRAME HEIGHT (IN.)	MAX. DAMPER FRAME WIDTH (1) (IN.)	ALLOWABLE PRESSURE (+/- PSF)
90.5	48	90.1	72.5	48	122.3
	42	103.0		42	139.8
	36	120.1		38	150.0
	30	144.2	66.5	48	133.4
	28	150.0		42	150.0
84.5	48	104.2	60.5	48	146.6
	42	119.0		46	150.0
	36	138.9	(1) DAMPER FRAME HEIGHT IS APPROXIMATELY 5.5" LESS THAN THE LOUVER FRAME HEIGHT.		
	33	150.0			
78.5	48	113.0			
	42	129.1			
	36	150.0			

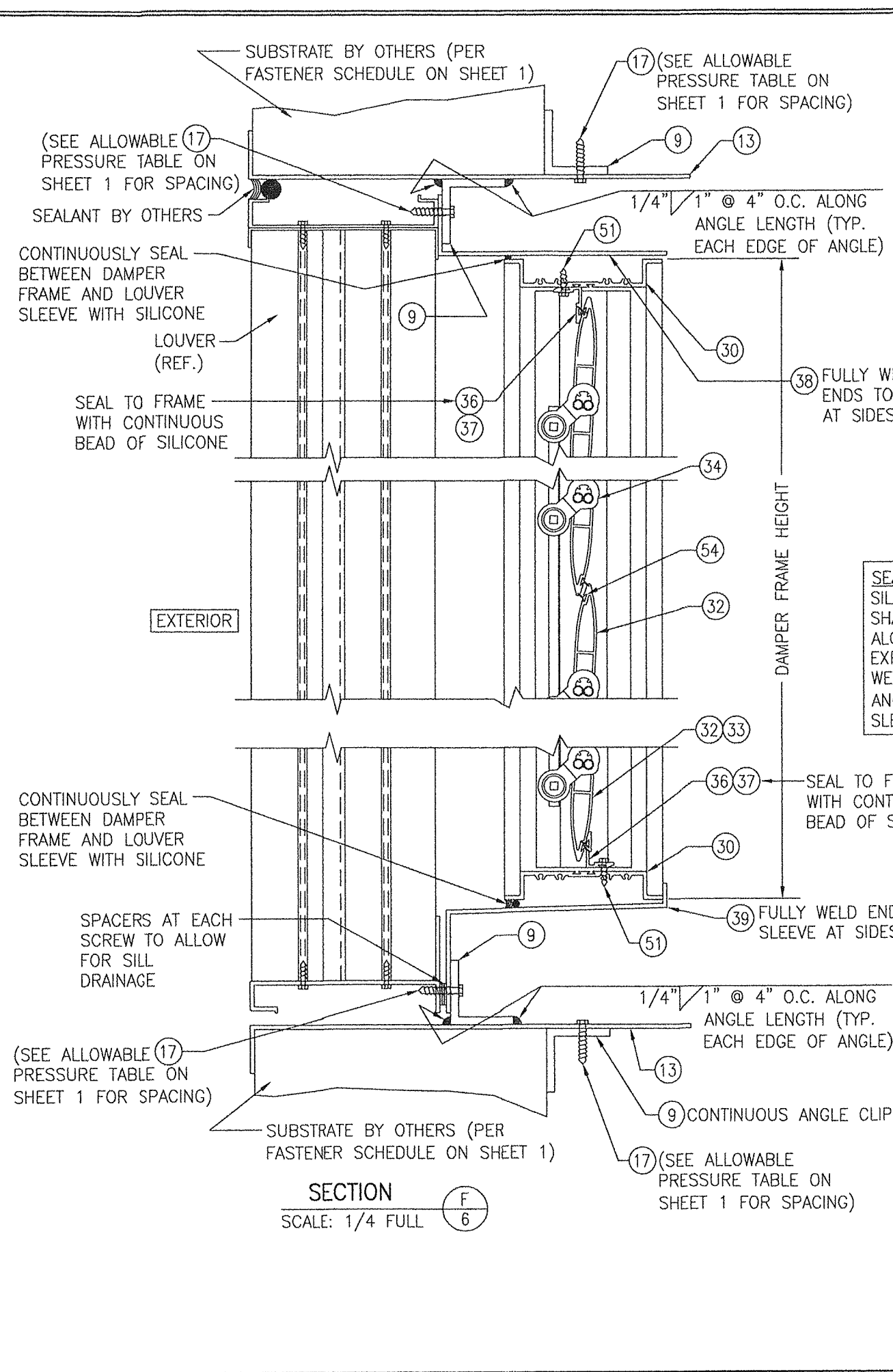
DAMPER CORNER CONSTRUCTION (AFD-20): HEAD AND SILL ARE BUTTED TO THE SIDE JAMBS, SECURED WITH 4 NO. 7 X 1" SELF TAPPING 410 S.S. SCREWS AND SEALED WITH SEALANT.

SLEEVE CORNER CONSTRUCTION: SIDE MEMBERS ARE JOINED & FULLY WELDED TO HEAD & SILL MEMBERS

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0624.04
Expiration Date 03/15/2032
By *[Signature]*
Miami-Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/18/06	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: EAV-66 VERTICAL LOUVER SYSTEM			
MANUFACTURER: ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC.		450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		25801 AYSEN DRIVE PUNTA GORDA, FL 33983	
CERTIFICATION: JUN 08 2026		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1504	REV. D	SHEET NO. 5 OF 9	



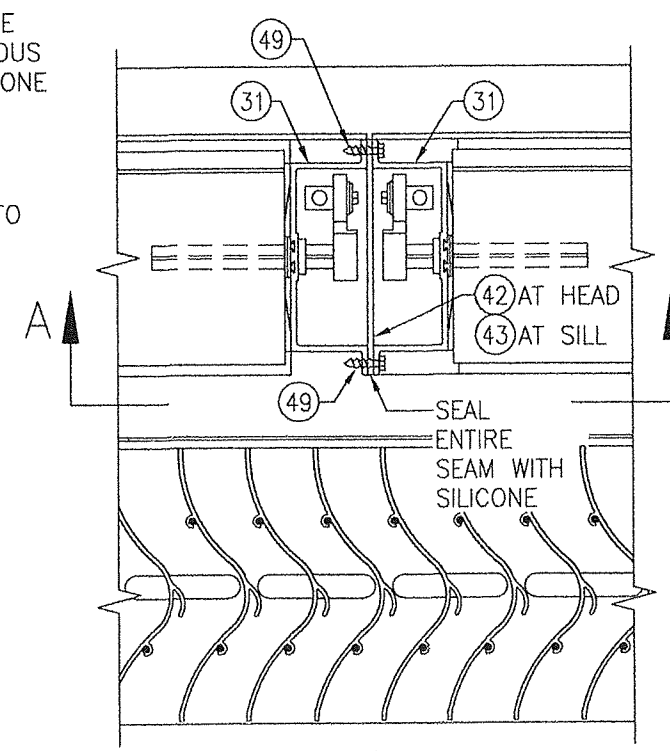
SECTION F
SCALE: 1/4 FULL

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 26-0624.04
Expiration Date 03/15/2032
By *[Signature]*
Miami-Dade Product Control

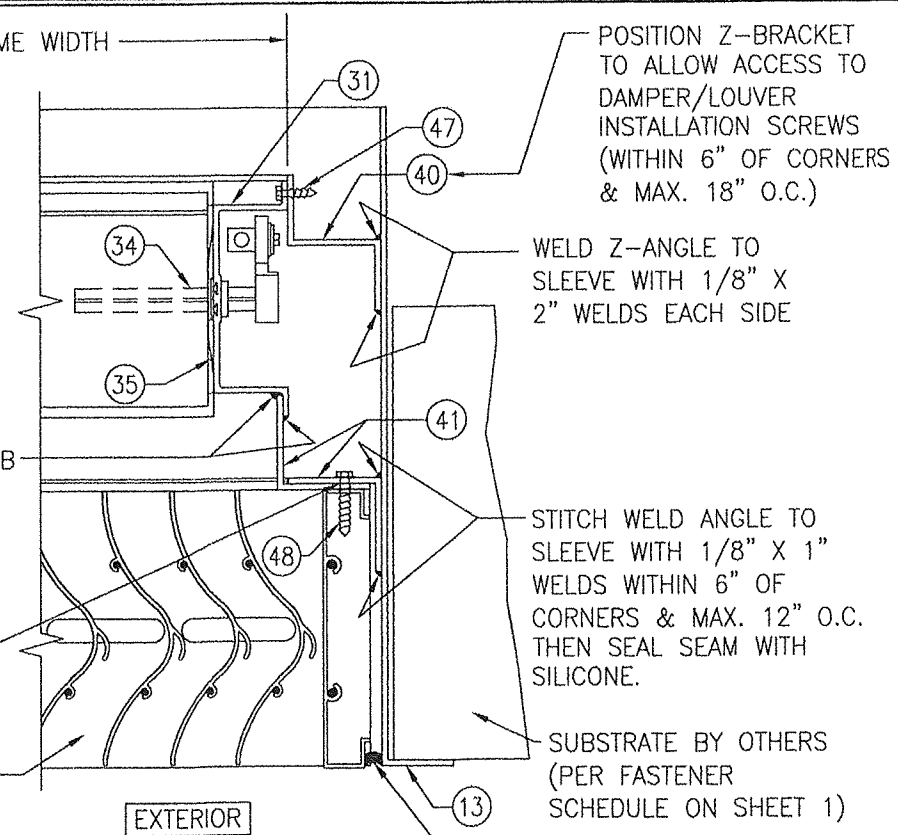
STITCH WELD ANGLE TO JAMB WITH 1/8" X 1" WELDS WITHIN 6" OF CORNERS & MAX. 12" O.C. THEN SEAL SEAM WITH SILICONE.

PLACE 1/4" BEAD OF SILICONE BETWEEN ANGLES PRIOR TO JOINING

SEALANT NOTE:
SILICONE SEALANT SHALL BE PLACED ALONG ALL EXTERIOR EXPOSED STITCH WELDED SEAMS JOINING ANGLE PART #9 TO SLEEVE.

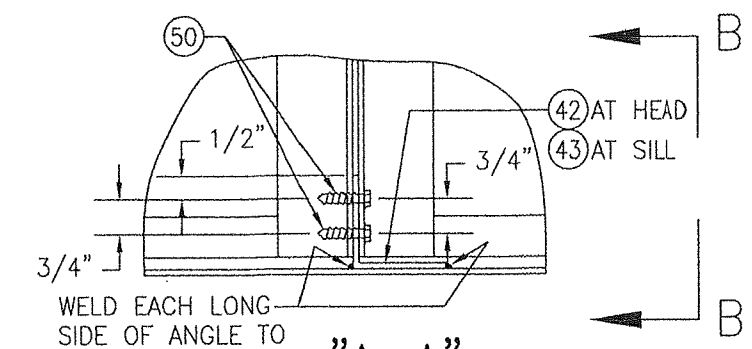


SECTION H
SCALE: 1/4 FULL

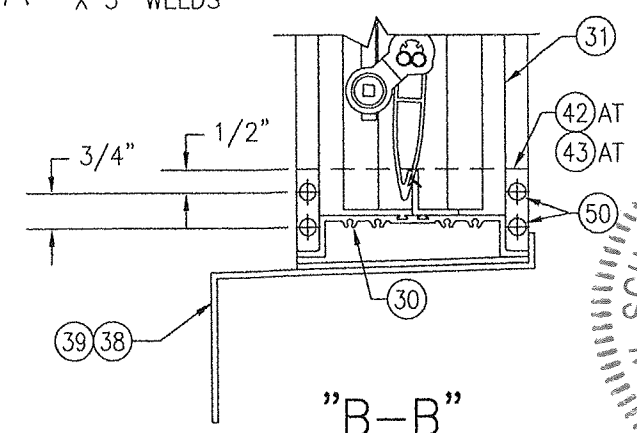


SECTION G
SCALE: 1/4 FULL

NOTE: Z-BRACKET PART #40 AND DAMPER SUPPORT ANGLE PART #41 MAY BE TURNED IN AS SHOWN OR TURNED OUT.



"A-A"

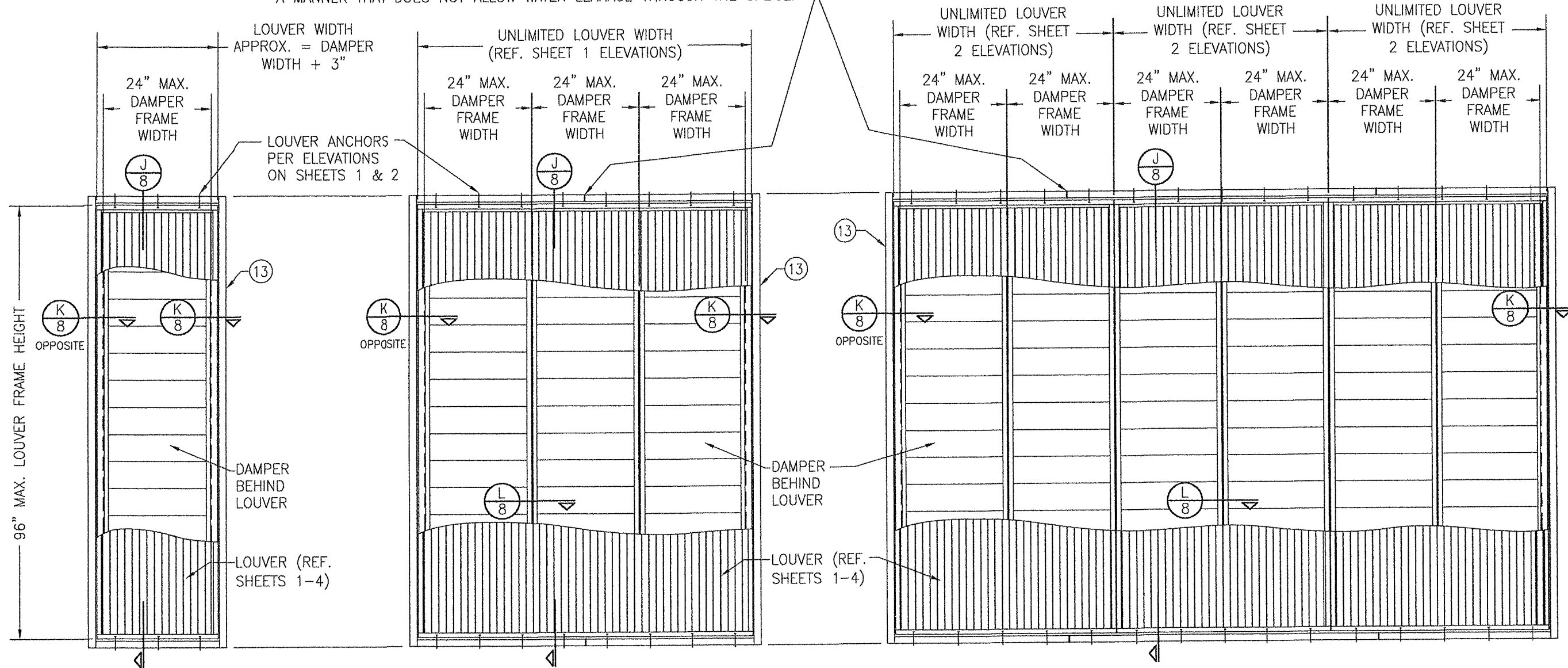


"B-B"

(SILL SECTION SHOWN, HEAD IS SIMILAR)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 10/18/06
DATE	BY
REVISION	DESCRIPTION
NO.	
DRAWING TITLE EAV-66 VERTICAL LOUVER SYSTEM	
MANUFACTURER ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983	
PROFESSIONAL ENGINEER WARREN W. SCHAEFER, P.E. P.E. NO. 44135 JUN 08 2025	
DRAWING NO. 1504	REV. D
SHEET NO. 6 OF 9	

SUPPORT SLEEVE SPLICE MAY OCCUR MID-WAY BETWEEN ANCHORS AT ANY LOCATION PROVIDING NO SLEEVE SECTION LENGTH IS LESS THAN THE DAMPER PANEL FRAME WIDTHS. SPICING OF SLEEVES SHALL BE DONE IN A MANNER THAT DOES NOT ALLOW WATER LEAKAGE THROUGH THE SPLICE.



EXTERIOR ELEVATION:
SINGLE LOUVER PANEL WITH A
SINGLE AC-525/526 DAMPER
SCALE: 1/2" = 1'-0"

EXTERIOR ELEVATION:
SINGLE LOUVER PANEL WITH
MULTIPLE AC-525/526 DAMPERS
SCALE: 1/2" = 1'-0"
1) NUMBER OF DAMPERS BEHIND A LOUVER
PANEL IS UNLIMITED.
2) EACH INDIVIDUAL DAMPER PANEL IS LIMITED
TO A 24" FRAME WIDTH.

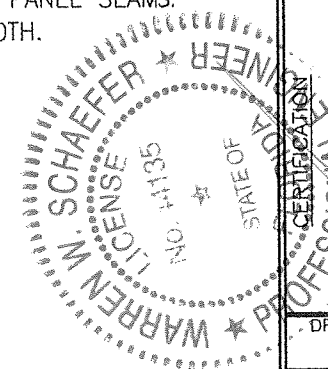
EXTERIOR ELEVATION:
MULTIPLE LOUVER PANELS WITH
MULTIPLE AC-525/526 DAMPERS
SCALE: 1/2" = 1'-0"
1) NON-ARCHITECTURAL LOUVERS SHOWN. ARCHITECTURAL LOUVERS ALSO APPLY.
2) MORE THAN 1 DAMPER MAY BE PLACED BEHIND EACH LOUVER PANEL.
3) DAMPER MULLIONS/SEAMS DO NOT HAVE TO ALIGN WITH LOUVER PANEL SEAMS.
4) EACH INDIVIDUAL DAMPER PANEL IS LIMITED TO A 24" FRAME WIDTH.

DAMPER CORNER CONSTRUCTION (AC-525/526): HEAD AND SILL ARE BUTTED TO THE SIDE JAMBS, SECURED WITH 4 NO. 8 X 3/4" 410 S.S. SHEET METAL SCREWS AND SEALED WITH SEALANT.

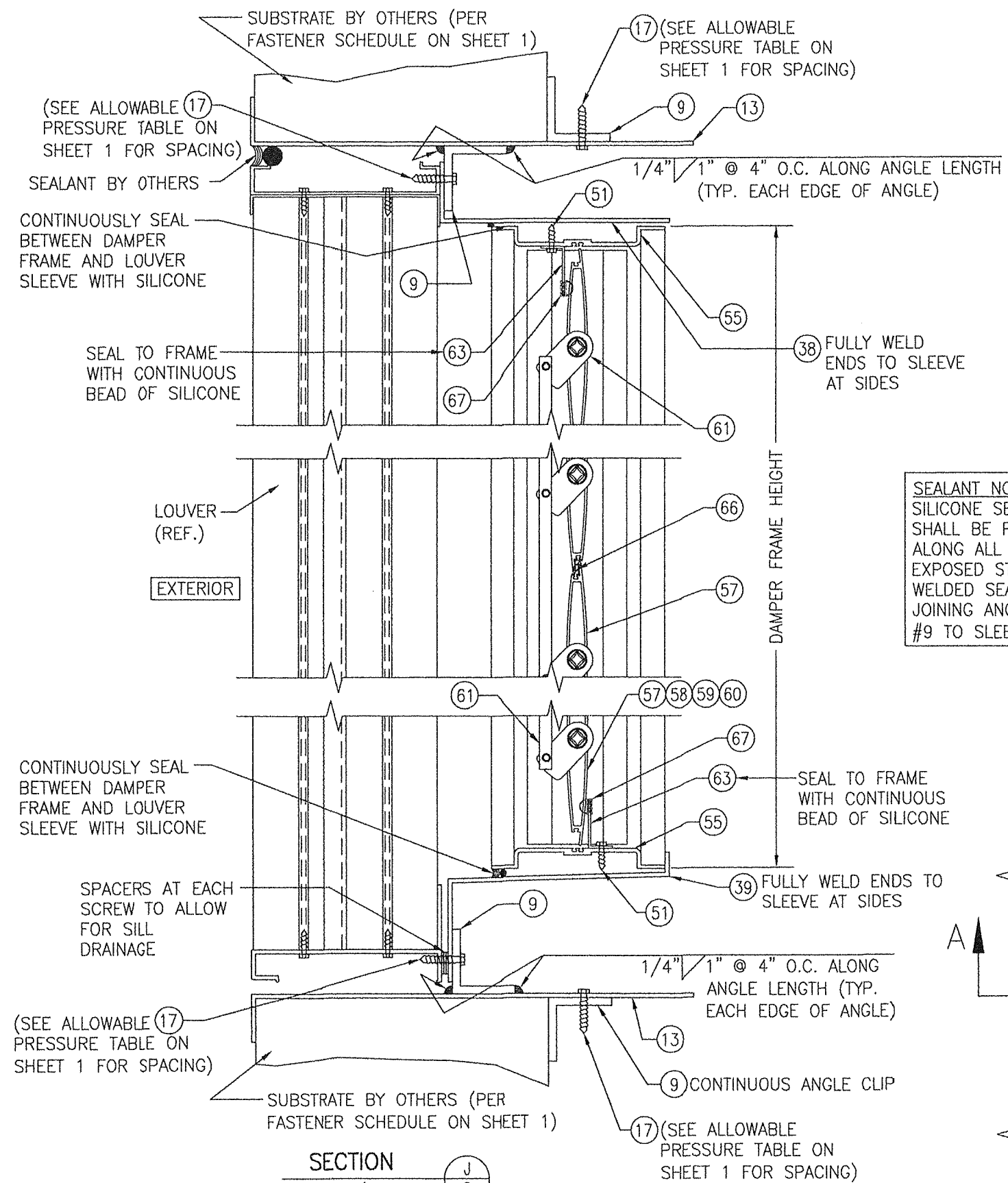
SLEEVE CORNER CONSTRUCTION: SIDE MEMBERS ARE JOINED & FULLY WELDED TO HEAD & SILL MEMBERS

ALLOWABLE DESIGN PRESSURE
(AC-525/526 DAMPERS)
+150/-150 PSF

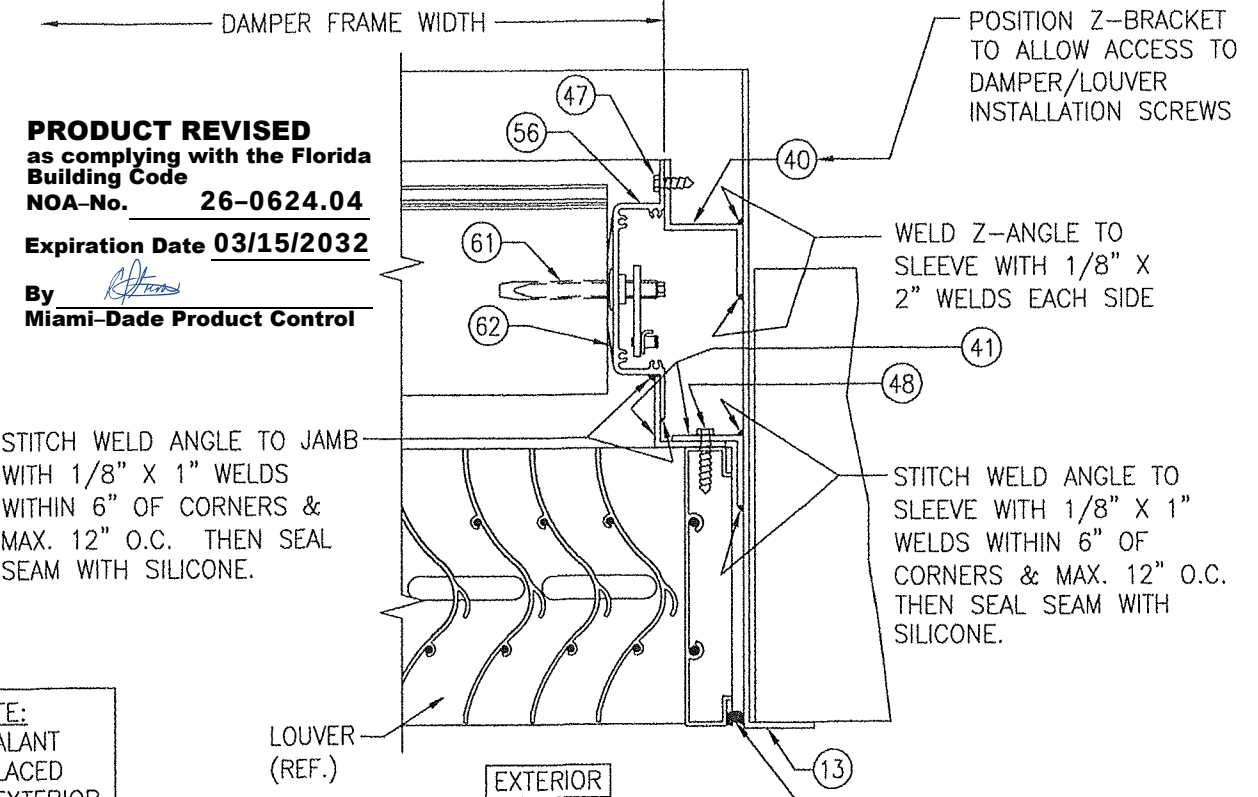
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 26-0624.04
Expiration Date 03/15/2032
By *[Signature]*
Miami-Dade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/18/06
DATE	
BY	
REVISION DESCRIPTION	
NO.	
EAV-66 VERTICAL LOUVER SYSTEM MANUFACTURER ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888 CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.
1504	D
SHEET NO.	
7 OF 9	



SECTION J
SCALE: 1/4 FULL

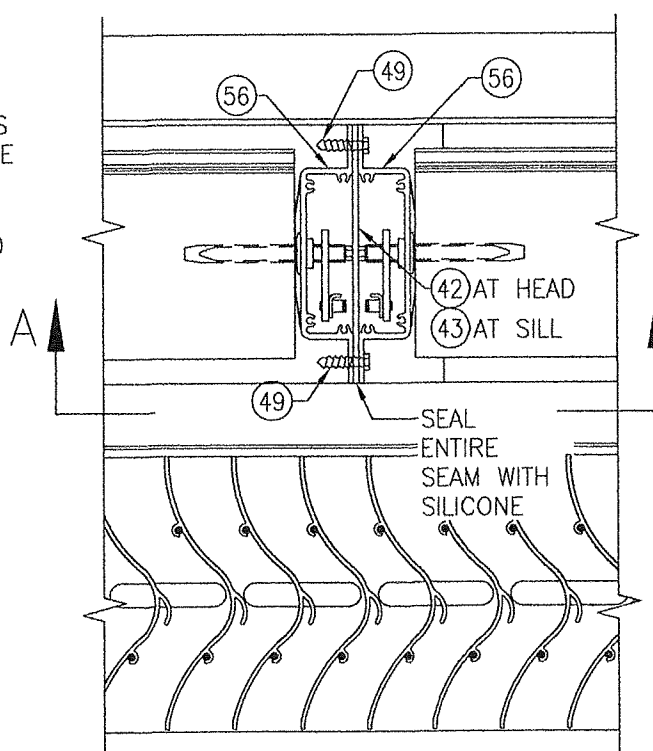


PRODUCT REVISED
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NOA-No. 26-0624.04
Expiration Date 03/15/2032
By Miami-Dade Product Control

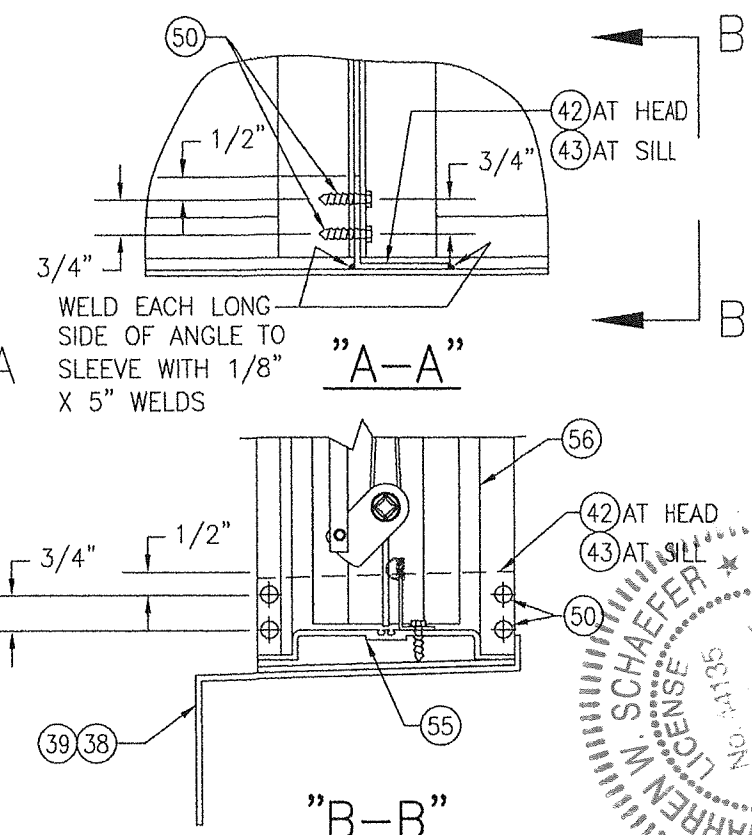
SEALANT NOTE:
SILICONE SEALANT SHALL BE PLACED ALONG ALL EXTERIOR EXPOSED STITCH WELDED SEAMS JOINING ANGLE PART #9 TO SLEEVE.

NOTE: Z-BRACKET PART #40 AND DAMPER SUPPORT ANGLE PART #41 MAY BE TURNED IN AS SHOWN OR TURNED OUT.

SECTION K
SCALE: 1/4 FULL

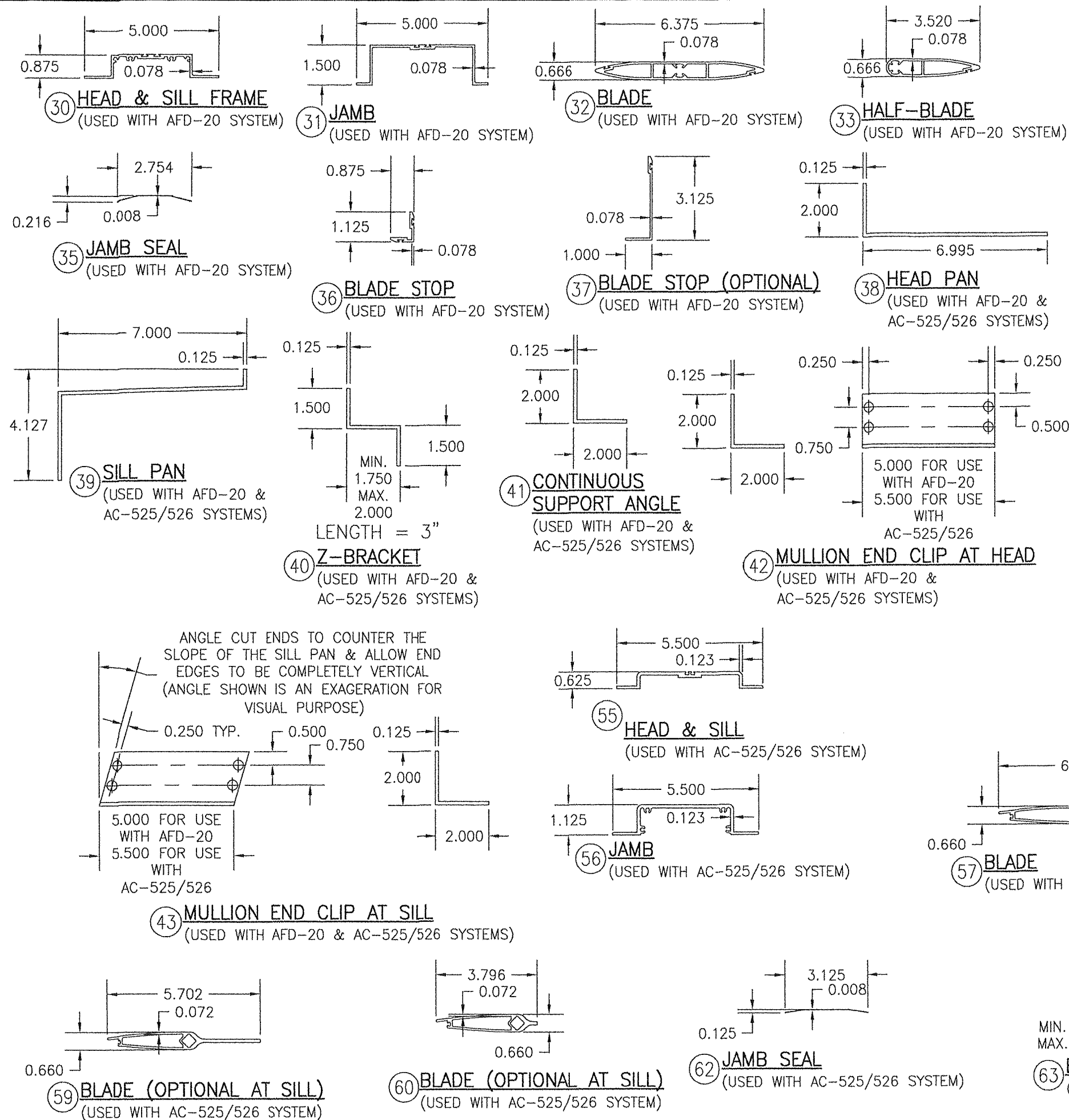


SECTION L
SCALE: 1/4 FULL



SECTION A-A
SCALE: 1/4 FULL

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 10/18/06
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: EAV-66 VERTICAL LOUVER SYSTEM MANUFACTURER: ARROW UNITED INDUSTRIES; A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983 CERTIFICATION: PROFESSIONAL ENGINEER JUN 8 2026 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1504	REV. D
SHEET NO. 8	OF 9



AFD-20 DAMPER (ALL PARTS BY ARROW UNITED INDUSTRIES)		
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
30	HEAD & SILL FRAME	6063-T5 ALUMINUM
31	JAMB	6063-T6 ALUMINUM
32	BLADE	6063-T5 ALUMINUM
33	HALF-BLADE	6063-T5 ALUMINUM
34	BLADE LINKAGE ASSEMBLY	BY AWW
35	JAMB SEAL	304 STAINLESS STEEL
36	BLADE STOP	6063-T5 ALUMINUM
37	BLADE STOP (OPTIONAL)	6063-T5 ALUMINUM
38	HEAD PAN	5052-H32 ALUMINUM
39	SILL PAN	5052-H32 ALUMINUM
40	Z-BRACKET	5052-H32 ALUMINUM
41	CONTINUOUS SUPPORT ANGLE	6063-T5 ALUMINUM
42	MULLION END CLIP AT HEAD	6063-T5 ALUMINUM
43	MULLION END CLIP AT SILL	6063-T5 ALUMINUM
MISC. FASTENERS		
47	NO. 8 X 3/4" 18-8 SS SMS SCREW	2 PER Z-BRACKET
48	1/4" X 1" 410 S.S. SELF TAPPING SCREW	WITHIN 6" OF ENDS & MAX. 12" O.C.
49	NO. 8 X 3/4" 18-8 SS SMS SCREW	WITHIN 6" OF ENDS & MAX. 12" O.C.
50	1/4" X 1" 410 S.S. SELF TAPPING SCREW	4 PER MULLION END CLIP
51	NO. 8 X 3/4" 18-8 SS SMS SCREW	WITHIN 2" OF CORNERS & MAX. 12" O.C.
SEALS & SEALANTS		
54	BLADE SEAL	SOLID SILICONE

AC-525/526 DAMPER (ALL PARTS BY AIR BALANCE, INC.)		
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
55	HEAD & SILL FRAME	6063-T5 ALUMINUM
56	JAMB	6063-T6 ALUMINUM
57	BLADE	6063-T5 ALUMINUM
58	BLADE (OPTIONAL AT SILL)	6063-T5 ALUMINUM
59	BLADE (OPTIONAL AT SILL)	6063-T5 ALUMINUM
60	BLADE (OPTIONAL AT SILL)	6063-T5 ALUMINUM
61	BLADE LINKAGE ASSEMBLY	BY AWW
62	JAMB SEAL	304 STAINLESS STEEL
63	BLADE STOP	6063-T5 ALUMINUM
SEALS & SEALANTS		
66	BLADE SEAL	SANTOPRENE
67	BULB SEAL	VINYL

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NOA-No. **26-0624.04**
Expiration Date **03/15/2032**
By *[Signature]*
Miami-Dade Product Control

DRAWN BY: W.R.M. PLOT: 1=4 DATE: 10/18/06	CHECKED BY: W.W.S. DATE: 10/18/06
REVISION DESCRIPTION NO. 1 DATE	
DRAWING TITLE EAV-66 VERTICAL LOUVER SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 25601 AYSEN DRIVE PUNTA GORDA, FL 33983	MANUFACTURER ARROW UNITED INDUSTRIES, INC. A DIVISION OF MESTEK, INC. 450 RIVERSIDE DRIVE WYALUSING, PA 18853 570-746-1888
PROFESSIONAL ENGINEER WARREN W. SCHAEFER, P.E. NO. 14135 STATE OF FLORIDA JUN 08 2026	
DRAWING NO. 1504	REV. D
SHEET NO. 9 OF 9	