



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

Reliable Products a div. of Ruskin Company
1300 Enterprise Road (PO Box 580)
Geneva, AL 36340

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 5DDWRDC Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **60-022270-00B**, titled "5DDWRDC", sheets 1 through 19 of 19, dated 08/02/2012, with revision E dated 03/02/2023, prepared by Reliable Products a div. of Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Geneva, AL, 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 NOA # 23-1116.17** and consists of page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



01/15/26

NOA No. 25-1229.04
Expiration Date: February 23, 2027
Approval Date: January 22, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS “Submitted under NOA # 16-0217.04”

1. Drawing No. **60-022270-00B**, titled “5DDWRDC”, sheets 1 through 21 of 21, dated 08/02/2012, with revision B dated 01/25/2016, prepared by Reliable Products, signed and sealed by Chelsea GQ. Welch, P.E.

B. TESTS “Submitted under NOA # 12-0816.01”

1. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly A) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3792-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.
2. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly B) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3782-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.
3. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly C) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3784-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.
4. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly D) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3790-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.
5. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly E) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3785-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-1229.04
Expiration Date: February 23, 2027
Approval Date: January 22, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (Continued)

6. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly F) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3784-4**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.

“Submitted under NOA # 05-0812.07”
7. Test report on Large Missile Impact Test per FBC, TAS 201-94, Cyclic Wind Pressure Test per FBC, TAS 203-94, and Uniform Static Air Pressure Test per FBC, TAS 202-94 of Series EME520MD aluminum louvers muller together, prepared by Fenestration Testing Laboratory, Inc, Test Report No. **4525**, dated 04/22/2005, signed and sealed by E. J. Largaespada, P.E.

C. CALCULATIONS “Submitted under NOA # 16-0112.02”

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

“Submitted under NOA # 12-0816.01”
2. Louver wind load review prepared by Ruskin Company, dated 07/25/2012, signed and sealed by Daniel J. Rau, P.E.

“Submitted under NOA # 05-0812.07”
3. Calculations prepared by Ruskin Company, dated 08/10/2005, pages 1 though 13, signed and sealed by E. P. Hutson, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS “Submitted under NOA # 16-0217.04”

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Ruskin Company, dated 02/02/2016, signed and sealed by Chelsea GQ. Welch, P.E.
2. No financial interest letter issued by Ruskin Company, dated 02/02/2016, signed and sealed by Chelsea GQ. Welch, P.E.
3. Private label agreement dated 02/02/2016.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-1229.04
Expiration Date: February 23, 2027
Approval Date: January 22, 2026

Reliable Products a div. of Ruskin Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER NOA # 20-1015.05, # 23-1116.17 AND NEW

A. DRAWINGS

1. Drawing No. **60-022270-00B**, titled “5DDWRDC”, sheets 1 through 19 of 19, dated 08/02/2012, with revision E dated 03/02/2023, prepared by Reliable Products a div. of Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Louver wind load review prepared by Ruskin Company, dated 09/04/2020, signed and sealed by Melissa M. Massar, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Test quotation issued by Intertek, dated 10/30/2025, signed by Helena Kohanec.
2. Statement letter of code conformance to the 8th edition (2023) of the FBC, prepared by Reliable Products a div. of Ruskin Company, dated 11/01/2023, signed and sealed by Jeffrey D. Smith, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-1229.04
Expiration Date: February 23, 2027
Approval Date: January 22, 2026

PARTS LIST FOR STANDARD CONSTRUCTION			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
1	HEAD FRAME	0.094" THK. EXTRUDED ALUM.	6063-T6
2	SILL FRAME	0.080" THK. EXTRUDED ALUM.	6063-T6
3	JAMB FRAME	0.080" THK. EXTRUDED ALUM.	6063-T6
4	BLADE	0.060" THK. EXTRUDED ALUM.	6063-T6
5	BLADE BRACE	0.070" THK. EXTRUDED ALUM.	6063-T6
6	H.V.B.S STRAP	0.125" THK. EXTRUDED ALUM.	6063-T6
7	SCR 8-18 X 3.00 HWH AB W/SEAL WASHER	410 SS/ZINC COATED	-
8	SCR 10-16 X 3.00 HWH AB W/SEAL WASHER	410 SS/ZINC COATED	-

MULTI SECTION CONNECTION PARTS			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
9	MULLION SUPPORT ANGLE	0.125" THK EXTRUDED ALUM	6063-T6

INSTALLATION PARTS			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
10	ATTACHMENT CLIP ANGLE, 2" LG.	0.250" THK EXTRUDED ALUM.	6063-T6
11	CLIP ANGLE - FORMED, 2" LG.	0.250" THK FORMED ALUM.	3003-H14
12	CLIP ANGLE - FORMED, 4" LG.	0.250" THK FORMED ALUM.	3003-H14
13	ATTACHMENT CLIP ANGLE, CONT.	0.250" THK EXTRUDED ALUM.	6063-T6
14	CLIP ANGLE - FORMED, CONT.	0.250" THK FORMED ALUM.	3003-H14
15	STRUCTURAL ATTACHMENT ANGLE, CONT.	0.500" THK A36 STL.	-
16	STRUCTURAL ATTACHMENT ANGLE, 28" LG.	0.625" THK A36 STL.	-
17	MULLION SUPPORT ATTACHMENT PLATE	.250" THK A36 STL.	-
18	SCREW #10-16 X 1.500" LG. HWH SDS	410SS/ZINC COATED	-
19	3/8-16 X 1.500" LG A307 GRADE A HHB W/ WASHER & LOCKNUT	ZINC PLATED	-
20	3/8-16 X 2.000" LG A307 GRADE A HHB W/ WASHER & LOCKNUT	ZINC PLATED	-
21	3/8-16 X 2.500" LG A307 GRADE A HHB W/ WASHER & LOCKNUT	ZINC PLATED	-
22	5/8-11 X 2.000" LG A307 GRADE A HHB W/ WASHER & LOCKNUT	ZINC PLATED	-
23	SUBSTRATE FASTENER (BY OTHERS)	VARIES (REF TABLE 02/15)	-

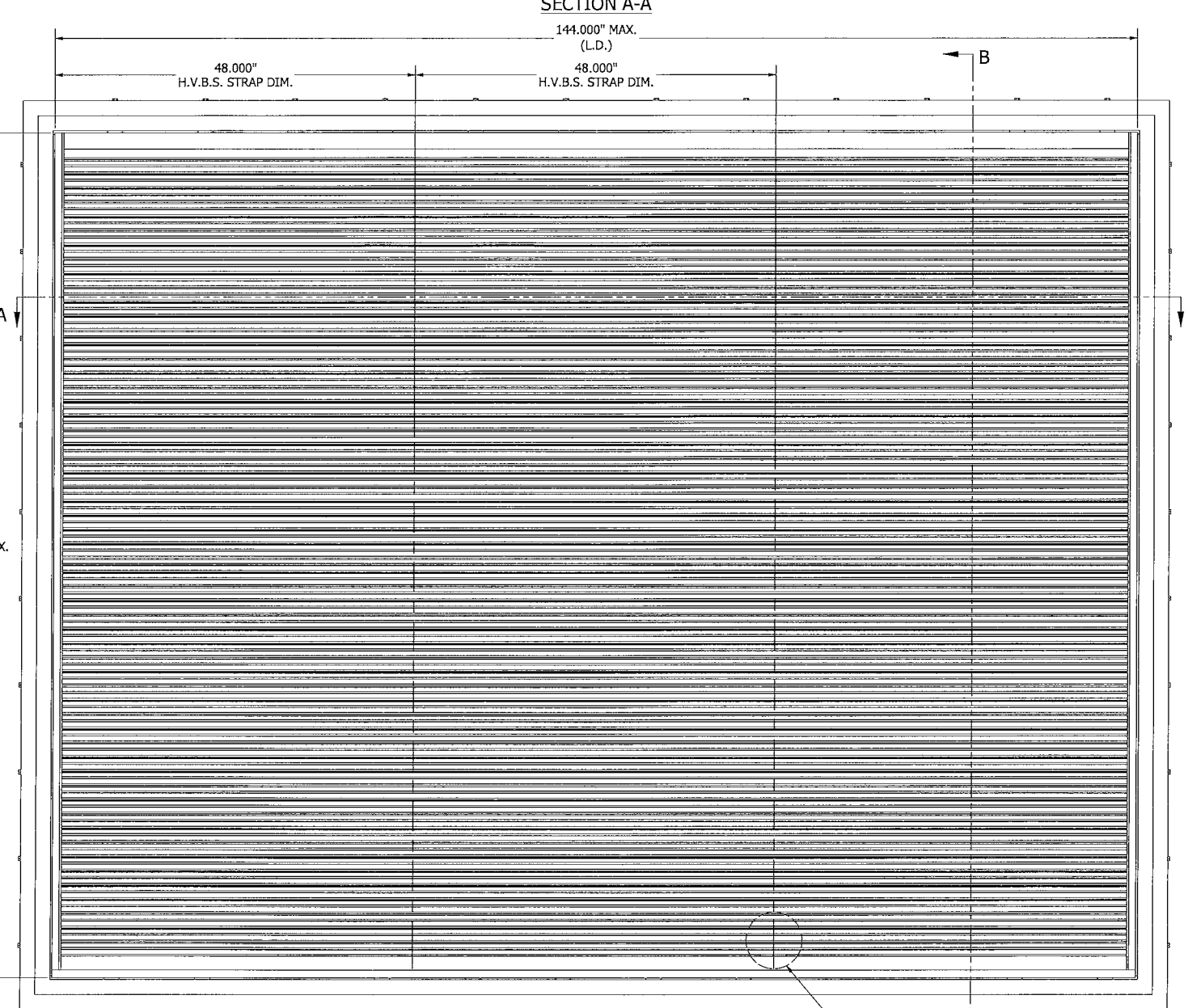
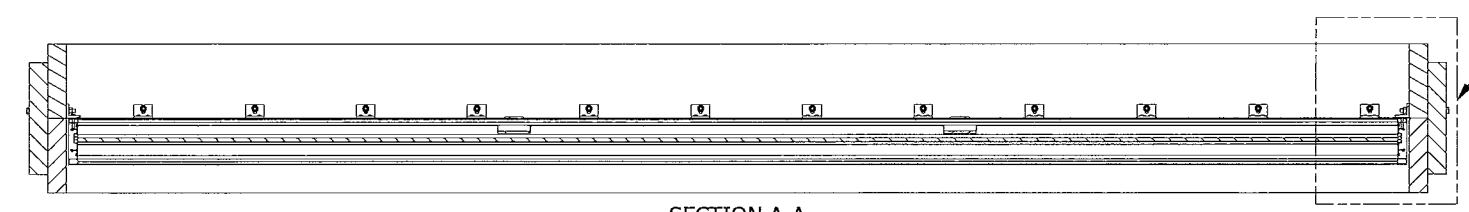
UNIVERSAL SLEEVE PARTS			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
24	HEAD FRAME W/INTEGRAL FLANGE	.094" THK EXTRUDED ALUM.	6063-T6
25	SILL FRAME W/INTEGRAL FLANGE	.080" THK EXTRUDED ALUM.	6063-T6
26	JAMB FRAME W/INTEGRAL FLANGE	.080" THK EXTRUDED ALUM.	6063-T6
27	FRONT FLANGE UNIVERSAL SLEEVE	.188" THK FORMED ALUM.	3003-H14
28	CONT. RETAINING ANGLE	.250" THK EXTRUDED ALUM.	6063-T6
29	US MULLION ATTACHMENT ANGLE, 6" LG.	.250" THK EXTRUDED ALUM.	6063-T6
30	1/2-13 X 2.500" LG A307 GRADE 5 HHB W/ WASHER & LOCKNUT	ZINC PLATED	-
31	SCREW 1/4-20 X 1.000" LG. HWH SDS	410SS/ZINC COATED	-

MULLION SUPPORT OPTIONS BASED ON SECTION HEIGHT				
ITEM #	DESCRIPTION	LOUVER HEIGHT RANGE	MATERIAL	ALLOY
32	CHAN C3 X 4.1 X 20'	GREATER THAN 12" TO 103"	A36 CARBON STEEL	-
33	CHAN C4 X 5.4 X 20'	GREATER THAN 103" TO 116"	A36 CARBON STEEL	-
34	CHAN C5 X 6.7 X 20'	GREATER THAN 116" TO 133"	A36 CARBON STEEL	-
35	CHAN C6 X 8.2 X 20'	GREATER THAN 133" TO 144"	A36 CARBON STEEL	-

CIRCULAR SHAPE LOUVER PARTS/INSTALLATIONS			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
36	I SHAPE FRAME	0.080" THK. EXTRUDED ALUMINIUM	6063-T4
37	6" ATTACHMENT ANGLE	0.250" THK. EXTRUDED ALUMINIUM	6063-T6
38	6" REINFORCING ANGLE	0.125" THK FORMED ALUMINIUM	5005-H34
39	2" ATTACHMENT ANGLE	0.250" THK. EXTRUDED ALUMINIUM	6063-T6
40	2" REINFORCING ANGLE	0.125" THK FORMED ALUMINIUM	5005-H34
41	STRAP SPLICE PLATE	0.125" THK FORMED ALUMINIUM	5005-H34

REVERSE ANGLE INSTALLTION OPTIONS			
ITEM#	DESCRIPTION	MATERIAL	ALLOY
42	ATTACHMENT ANGLE, 2" LG., REVERSE DIR.	.250" THK. EXT. ALUM	6063-T6
43	CONTINUOUS ATTACHMENT ANGLE, REVERSE DIR.	.250" THK. EXT. ALUM	6063-T6
44	ATTACHMENT ANGLE 6" LONG, REVERSE DIR.	.250" THK. EXT. ALUM	6063-T6
45	ALTERNATE ATTACHMENT ANGLE 2" LONG, REVERSE DIR.	.250" THK. EXT. ALUM	6063-T6
46	SUBSTRATE FASTENER, REVERSE ANGLE - BY OTHERS	REF TABLE 01/11	-

- NOTES**
- THE SDDWRDC HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
 - THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF ± 120 PSF OR LESS.
 - THIS LOUVER SYSTEM IS TO BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT / WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.
 - THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
 - IT SHALL BE THE RESPONSIBILITY OF PERMIT HOLDER/BUILDING DESIGN ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THIS LOUVER SYSTEM.
 - MAXIMUM SINGLE SECTION SIZE : **87 15/16" WIDE X 144" HIGH** OR **144" WIDE X 112" HIGH**.
 - MAXIMUM ASSEMBLED LOUVER SIZE : **UNLIMITED WIDE X 144" HIGH** W/SECTION MULLIONS AT **87 7/8"** (TRAPEZOIDS ALLOWED)
 - SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
 - ALL CMU BLOCKS MUST BE GROUT FILLED. MIN. PRISM STRENGTH OF 1500 PSI AT TIME OF INSTALLATION. CMU BLOCKS MUST BE MIN. TYPE 1, GRADE N, LIGHT MEDIUM OR NORMAL WEIGHT PER ASTM C90. GROUT AND MORTAR MUST COMPLY WITH FLORIDA BUILDING CODE.
 - PART NUMBERS WITH SQUARE BALLOONS ARE **"SHIPPED LOOSE PARTS"**.
 - ALL FASTENERS SHALL BE CORROSION RESISTANT.



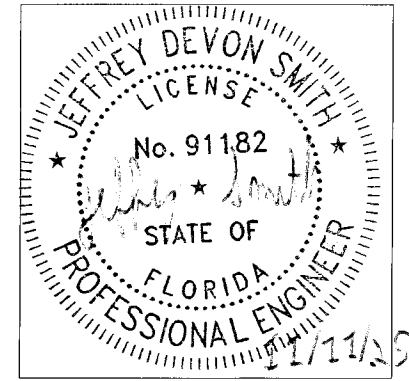
ASSEMBLY "A" - SINGLE SECTION VIEW
MAX. SHIP SECTION : **144" W X 112" H**

2"x1/8" THICK CONT. ALUM FLAT STRAP (ITEM #6)
WELDED TO HEAD/SILL & ALSO AT EACH BLADE BRACE

- REF DETAIL F/03 FOR JAMB CONNECTION DETAIL (WOOD)
- REF DETAIL G/03 FOR JAMB CONNECTION DETAIL (STEEL)
- REF DETAIL H/03 FOR JAMB CONNECTION DETAIL (CONCRETE)
- REF DETAIL J/03 FOR JAMB CONNECTION DETAIL (CMU)
- REF DETAIL K/03 FOR JAMB CONNECTION DETAIL (UNIVERSAL SLEEVE)
- REF DETAIL P,Q,R/04 FOR JAMB CONNECTION DETAIL IN REVERSE DIRECTION (WOOD, STEEL, CONCRETE)

- REF DETAIL A/02 FOR HEAD/SILL CONNECTION DETAIL (WOOD)
- REF DETAIL B/02 FOR HEAD/SILL CONNECTION DETAIL (STEEL)
- REF DETAIL C/02 FOR HEAD/SILL CONNECTION DETAIL (CONCRETE)
- REF DETAIL D/02 FOR HEAD/SILL CONNECTION DETAIL (CMU)
- REF DETAIL E/02 FOR HEAD/SILL CONNECTION DETAIL (UNIVERSAL SLEEVE)
- REF DETAIL L,M,N/04 FOR HEAD/SILL CONNECTION DETAIL IN REVERSE DIRECTION (WOOD, STEEL, CONCRETE)

- ABBREVIATIONS:**
- CONT. - CONTINUOUS
 - C-C - CENTER TO CENTER
 - D - SUBSTRATE DEPTH
 - DIM. - DIMENSION
 - FLG. - FLANGE
 - HDG - HOT DIPPED GALVANIZED
 - H.V.B.S. - HIDDEN VERTICLE BLADE SUPPORT
 - H.H.B.S. - HIDDEN HORIZONTAL BLADE SUPPORT
 - HWH - HEX WASHER HEAD
 - L.D. - LOUVER DIMENSION
 - MAX. - MAXIMUM
 - MIN. - MINIMUM
 - NOM. - NOMINAL
 - N.T.E. - NOT TO EXCEED
 - N.T.S. - NOT TO SCALE
 - O/C - ON CENTER
 - OPP. - OPPOSITE
 - R.O. - ROUGH OPENING
 - REF. - REFERENCE
 - S.S. - SHIP SECTION
 - S.S.D. - SHIP SECTION DIMENSION
 - S.D.S. - SELF DRILLING SCREW
 - STL. - STEEL
 - SUB. - SUBSTRATE
 - TYP. - TYPICAL
 - U.N.O. - UNLESS NOTED OTHERWISE



JEFFREY D. SMITH, P.E.
NO. 91182

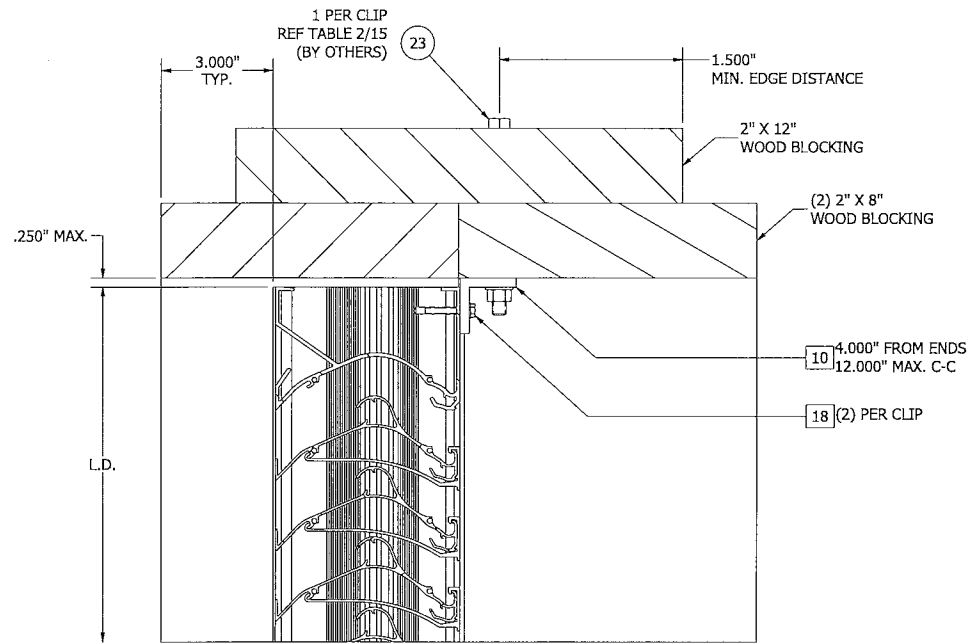
- DRAWING SHEET INDEX:**
- SHEET 01 - NOTES, PARTS LIST, DRAWING INDEX, ASSEMBLY "A"
 - SHEET 02 - ASSEMBLY "A" - HEAD/SILL INSTALL (ALL SUBSTRATES)
 - SHEET 03 - ASSEMBLY "A", "B" & "C" - JAMB INSTALL (ALL SUBSTRATES)
 - SHEET 04 - ASSEMBLY "A", "B" & "C" - REVERSE ANGLE INSTALL (ALL SUBSTRATES)
 - SHEET 05 - ASSEMBLY "B" - BASIC ASSEMBLY
 - SHEET 06 - ASSEMBLY "C" - BASIC ASSEMBLY
 - SHEET 07 - ASSEMBLY "B" & "C" - MULLION SUPPORT CONNECTION @ HEAD/SILL
 - SHEET 08 - ASSEMBLY "B" & "C" - VISIBLE MULLION CONNECTION (ALL SUBSTRATES)
 - SHEET 09 - ASSEMBLY "D"
 - SHEET 10 - ASSEMBLY "D" INSTALL
 - SHEET 11 - ASSEMBLY "D" REVERSE ANGLE INSTALL (ALL SUBSTRATES)
 - SHEET 12 - ASSEMBLY "E" & "F"
 - SHEET 13 - ASSEMBLY "E" & "F" INSTALL
 - SHEET 14 - ASSEMBLY "E" & "F" REVERSE ANGLE INSTALL (ALL SUBSTRATES)
 - SHEET 15 - SUBSTRATE FASTENER TABLE, PARTS (ITEMS 1 THRU 6)
 - SHEET 16 - PARTS (ITEMS 9 THRU 15)
 - SHEET 17 - PARTS (ITEMS 16 & 17, 24 THRU 28)
 - SHEET 18 - PARTS (ITEMS 29, 32 THRU 41)
 - SHEET 19 - PARTS (ITEMS 42 THRU 45)

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027

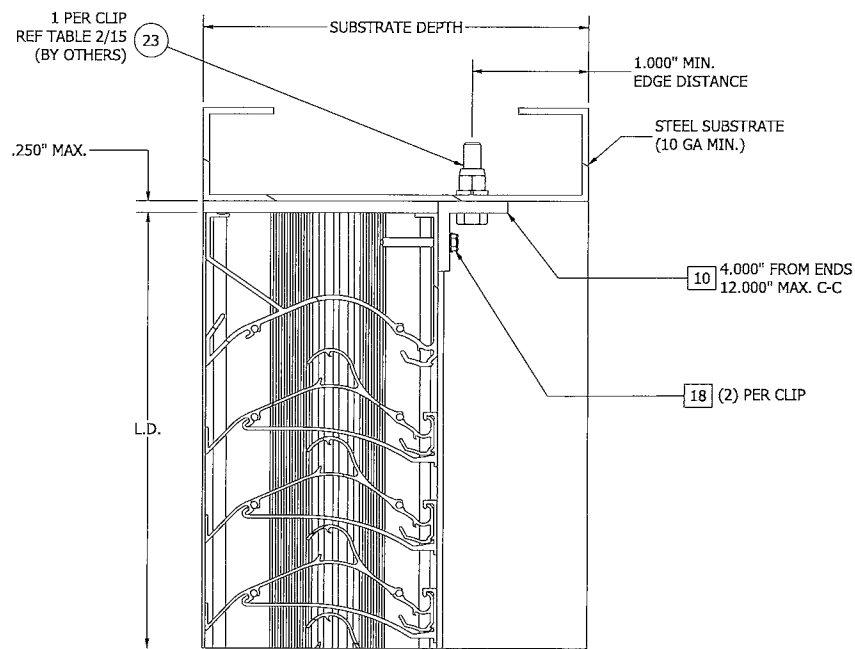
By *[Signature]*
Miami-Dade Product Control

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	SDDWRDC					
TITLE	NOTES, PARTS LIST, DRAWING INDEX, ASSEMBLY "A"					
SIZE	D	DWG NO	60-022270-00B			
SCALE	NONE	INVENTOR	SHEET 1 OF 19			

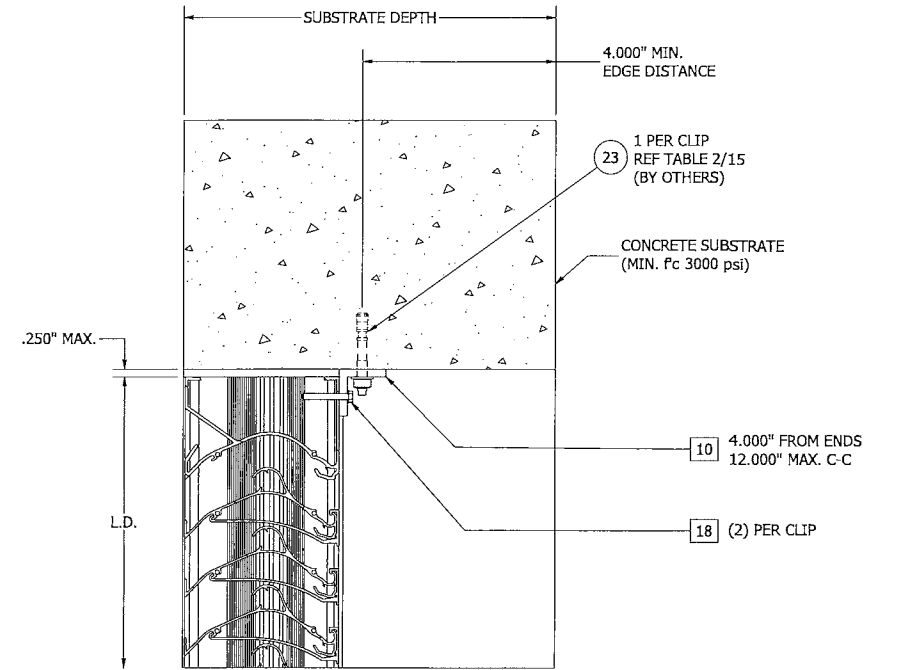




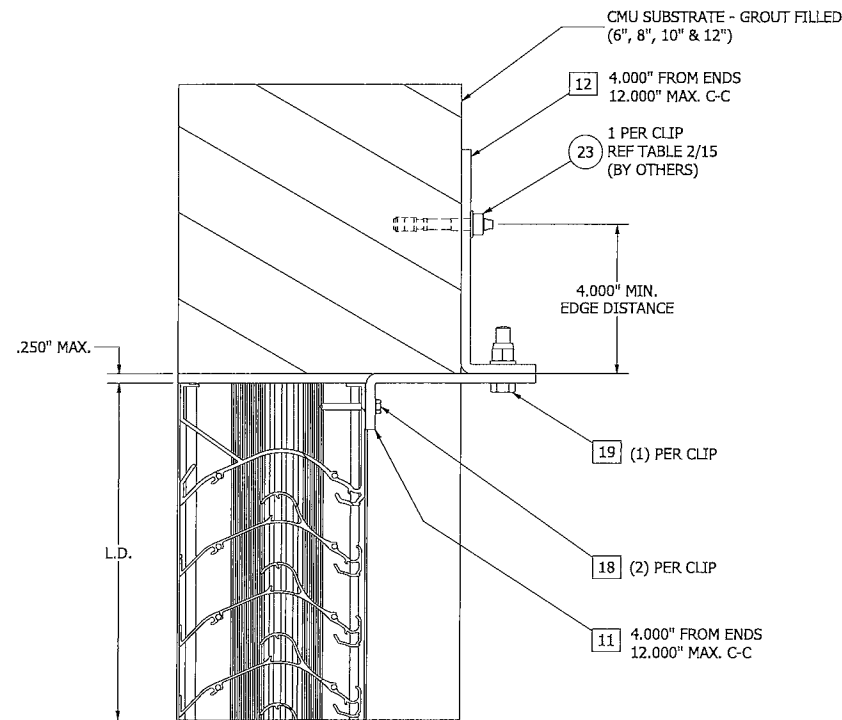
DETAIL A
ASSEMBLY 'A' - HEAD/SILL CONNECTION
(WOOD SUBSTRATE)



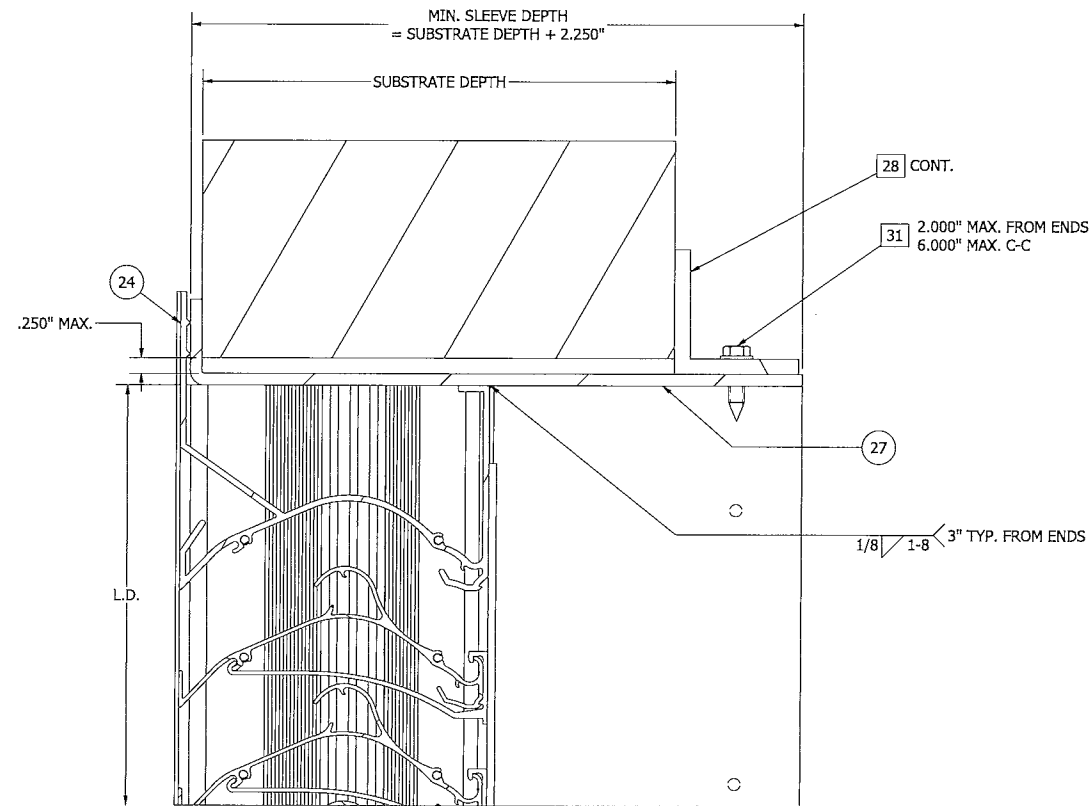
DETAIL B
ASSEMBLY 'A' - HEAD/SILL CONNECTION
(STEEL SUBSTRATE)



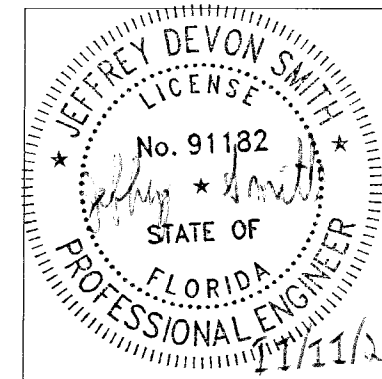
DETAIL C
ASSEMBLY 'A' - HEAD/SILL CONNECTION
(CONCRETE SUBSTRATE)



DETAIL D
ASSEMBLY 'A' - HEAD/SILL CONNECTION
(CMU SUBSTRATE)



DETAIL E
ASSEMBLY 'A' - HEAD/SILL CONNECTION
(UNIVERSAL SLEEVE)

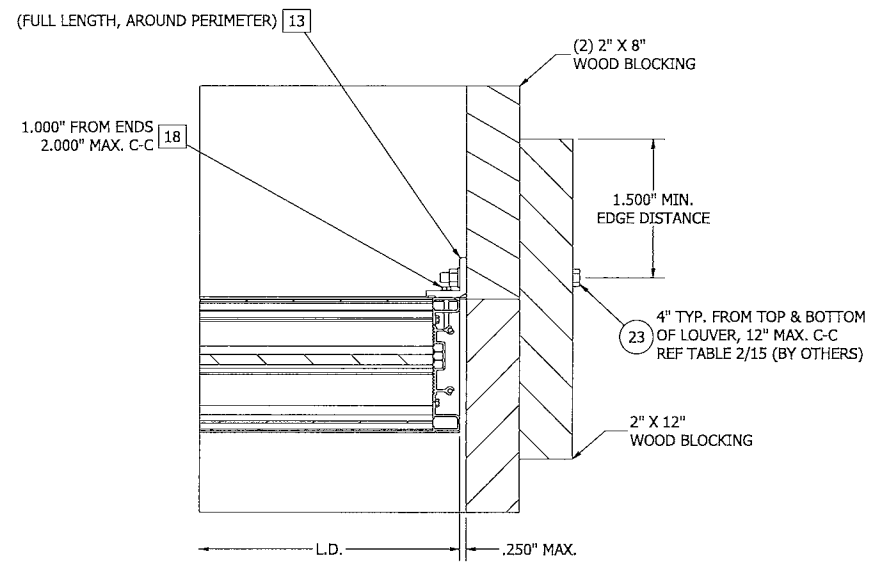


JEFFREY D. SMITH, P.E.
NO. 91182

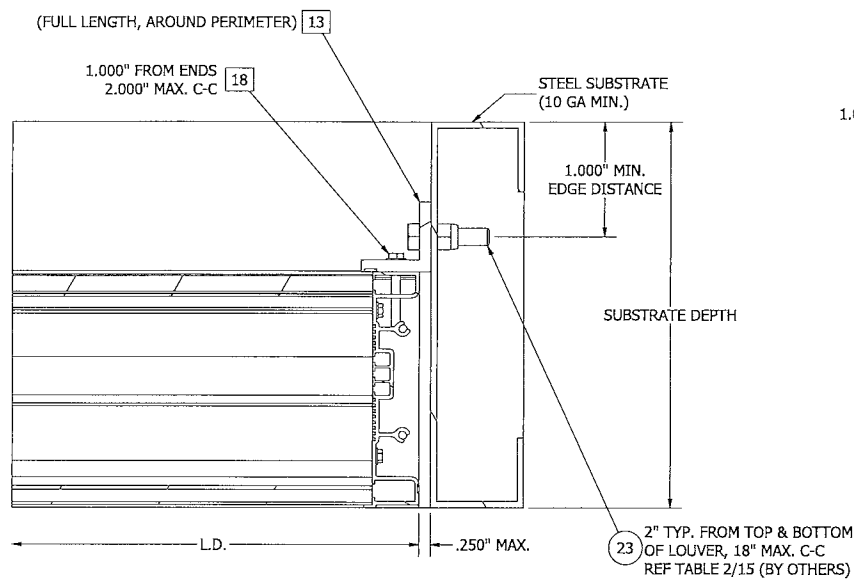
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027
By *[Signature]*
Miami-Dade Product Control

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL						
PRODUCT	SDDWRDC					
TITLE	ASSEMBLY "A" - HEAD/SILL INSTALL DETAILS					
SIZE	D	DWG NO	60-022270-00B		REV	E
EON	12426	SCALE	NONE	INVENTOR	SHEET 2 OF 19	

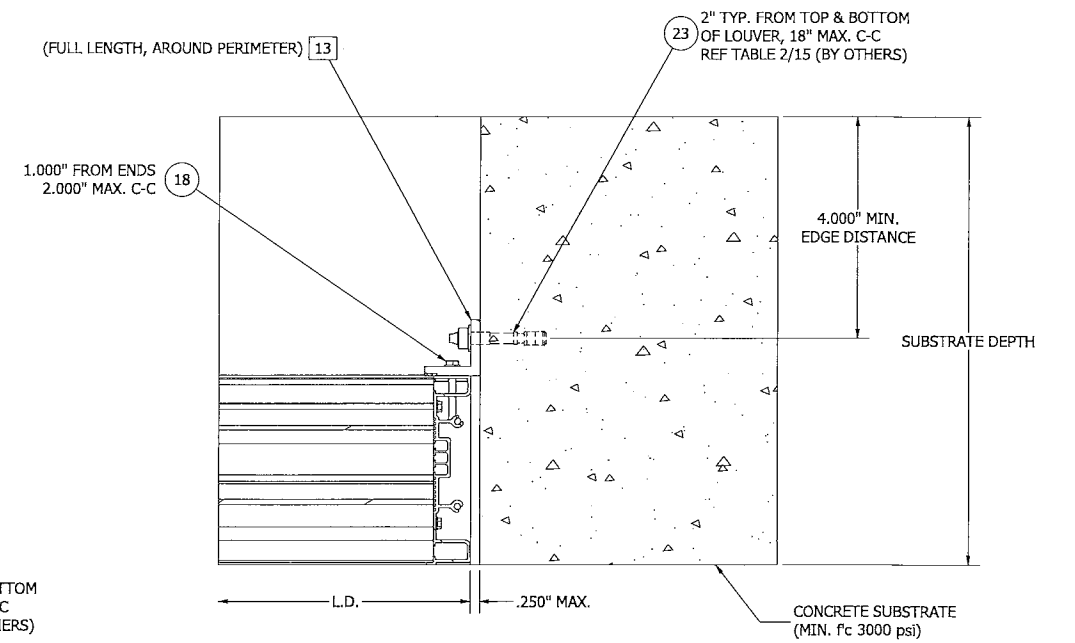




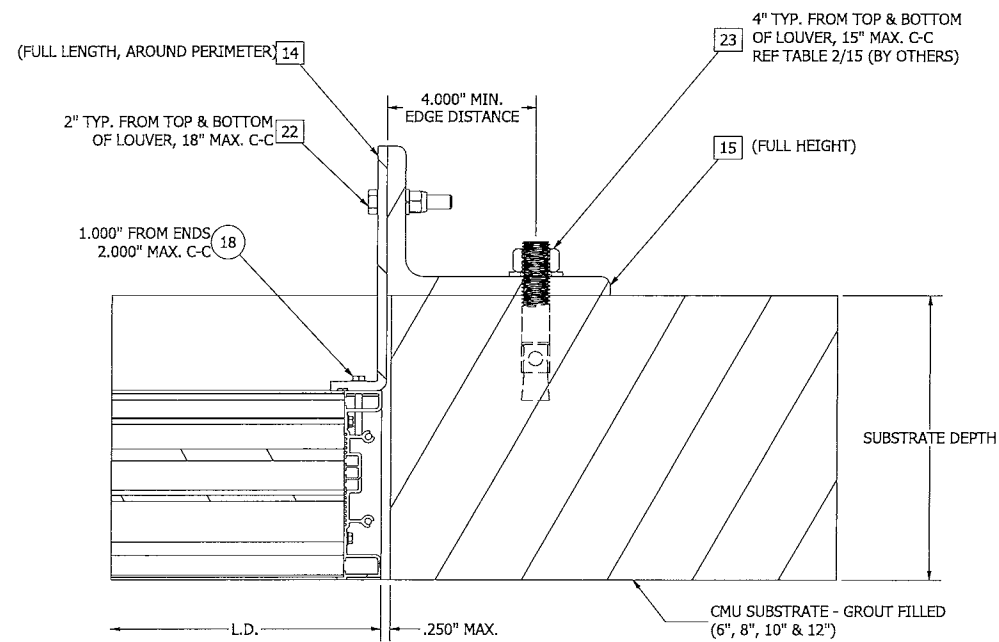
DETAIL F
ASSEMBLY 'A', 'B' & 'C' - JAMB CONNECTION
(WOOD SUBSTRATE)



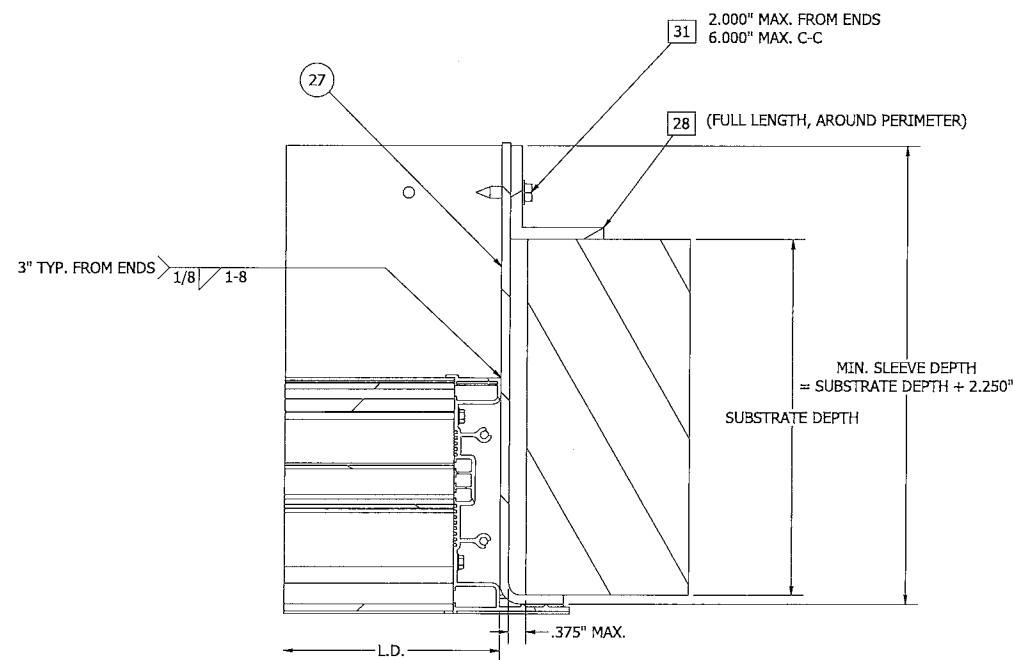
DETAIL G
ASSEMBLY 'A', 'B' & 'C' - JAMB CONNECTION
(STEEL SUBSTRATE)



DETAIL H
ASSEMBLY 'A', 'B' & 'C' - JAMB CONNECTION
(CONCRETE SUBSTRATE)



DETAIL J
ASSEMBLY 'A', 'B' & 'C' - JAMB CONNECTION
(CMU SUBSTRATE)



DETAIL K
ASSEMBLY 'A', 'B' & 'C' - JAMB CONNECTION
(UNIVERSAL SLEEVE)

JEFFREY DEVON SMITH
LICENSE
No. 91182
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

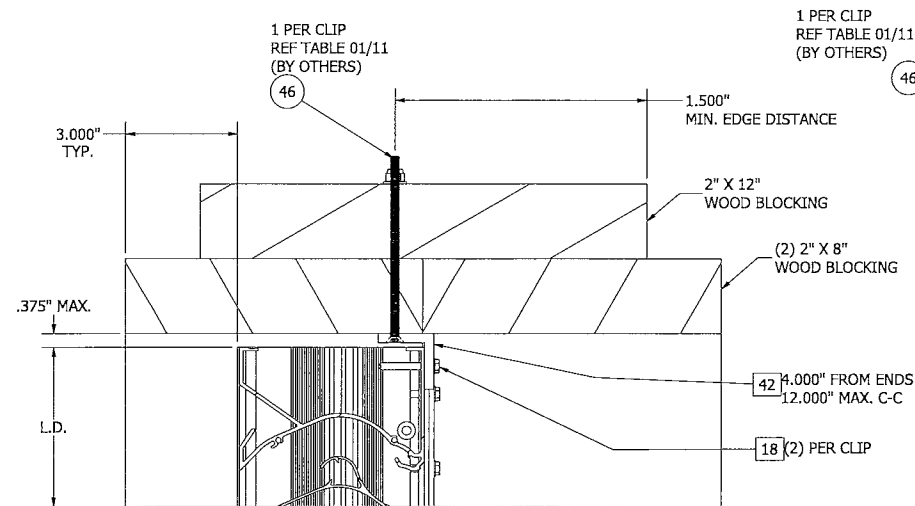
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027
By *[Signature]*
Miami-Dade Product Control

JEFFREY D. SMITH, P.E.
NO. 91182

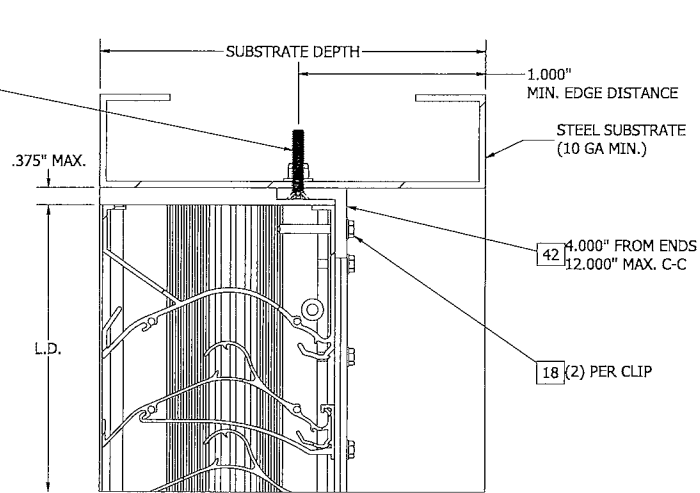
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT: SDDWRDC					
	TITLE: ASSEMBLY 'A', 'B' & 'C' - JAMB INSTALL DETAILS					
SIZE	D	DWG NO.	60-022270-00B		REV	E
EON	12426	SCALE	NONE	INVENTOR	SHEET 3 OF 19	



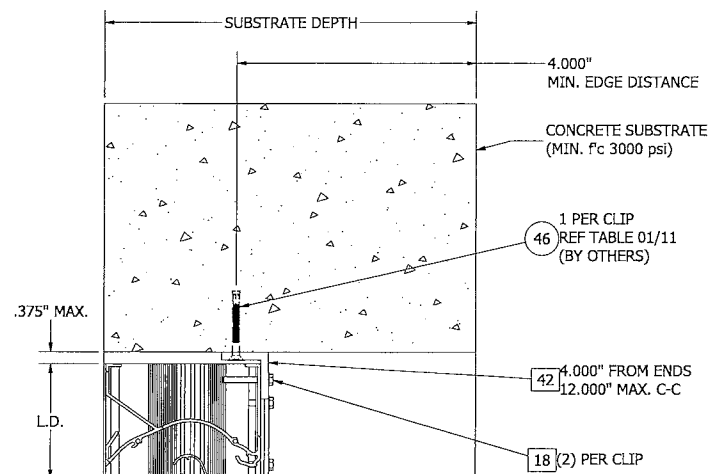
1300 Enterprise Road,
Geneva, Alabama 36540
PROPRIETARY AND
CONFIDENTIAL



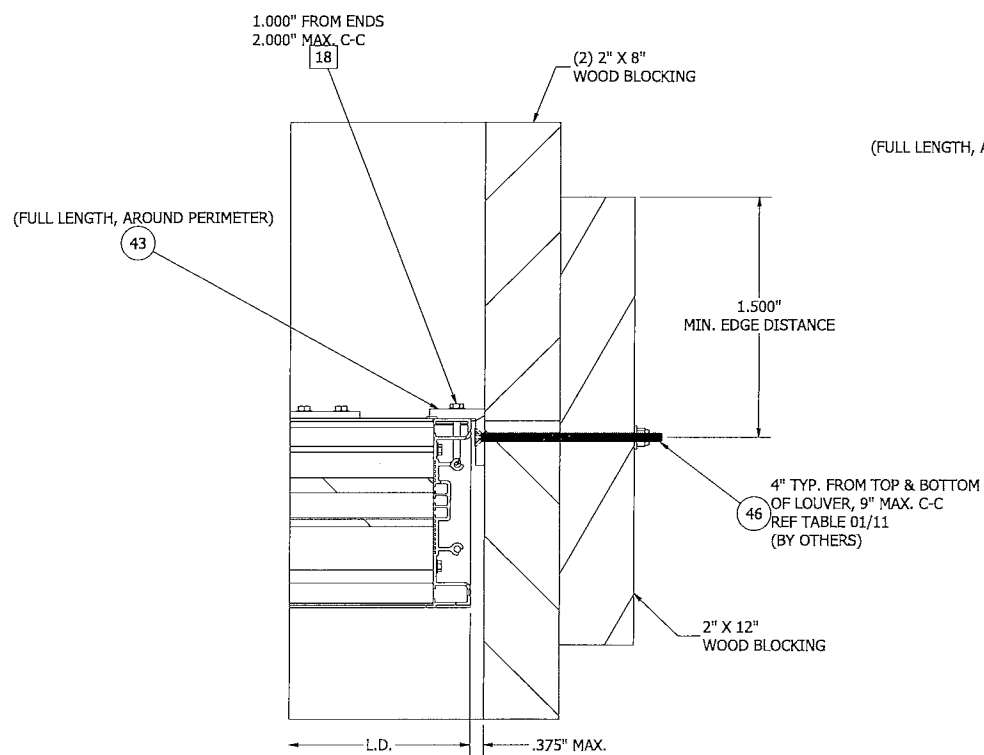
DETAIL L
ASSEMBLY 'A' - HEAD/SILL CONNECTION
IN REVERSE DIRECTION
(WOOD SUBSTRATE)



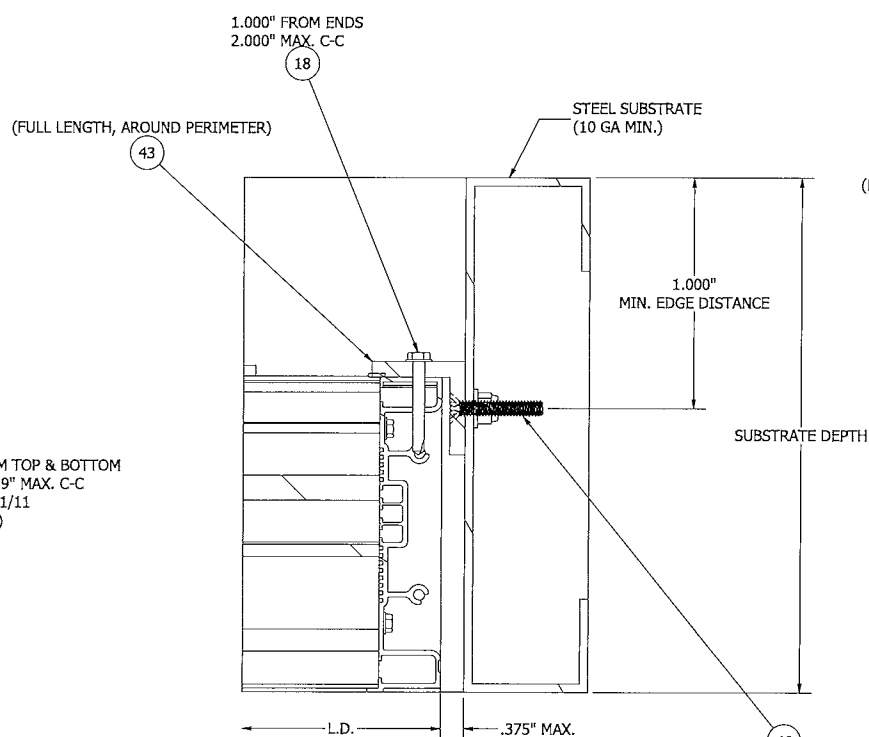
DETAIL M
ASSEMBLY 'A' - HEAD/SILL CONNECTION
IN REVERSE DIRECTION
(STEEL SUBSTRATE)



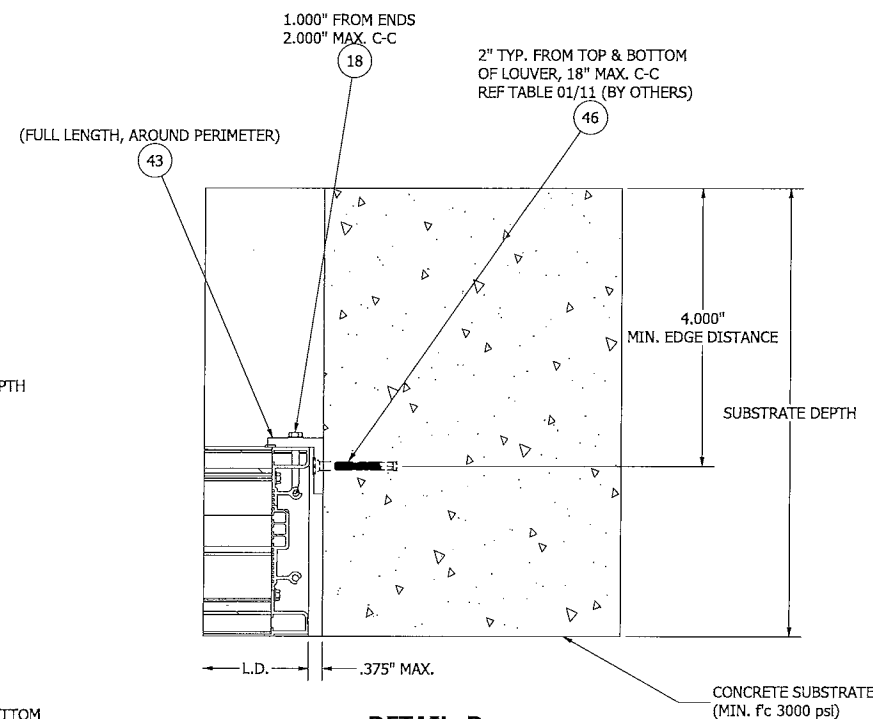
DETAIL N
ASSEMBLY 'A' - HEAD/SILL CONNECTION
IN REVERSE DIRECTION
(CONCRETE SUBSTRATE)



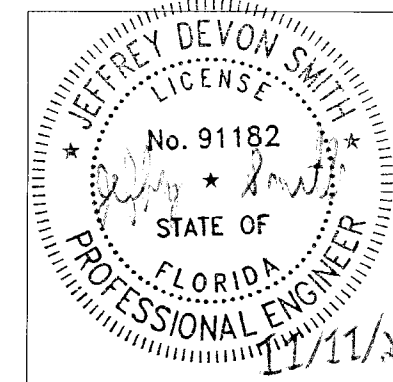
DETAIL P
ASSEMBLY 'A', 'B' & 'C' - JAMB CONNECTION
IN REVERSE DIRECTION
(WOOD SUBSTRATE)



DETAIL Q
ASSEMBLY 'A', 'B' & 'C' - JAMB CONNECTION
IN REVERSE DIRECTION
(STEEL SUBSTRATE)



DETAIL R
ASSEMBLY 'A', 'B' & 'C' - JAMB CONNECTION
IN REVERSE DIRECTION
(CONCRETE SUBSTRATE)



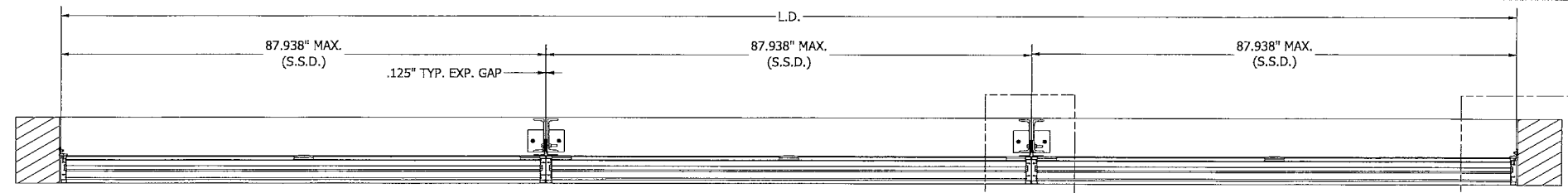
JEFFREY D. SMITH, P.E.
NO. 91182

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04

Expiration Date 02/23/2027

By *[Signature]*
Miami-Dade Product Control

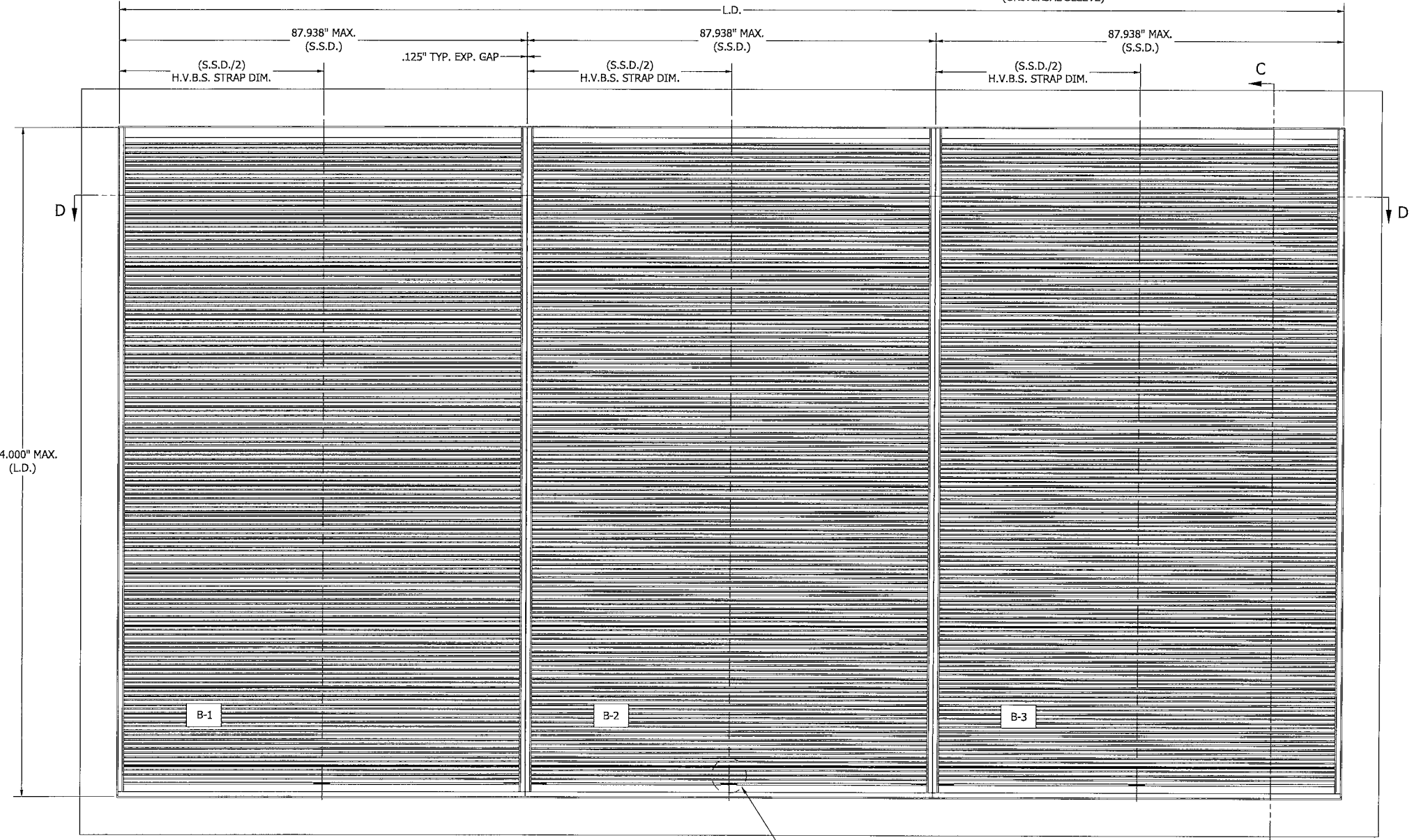
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/15/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL						
PRODUCT	5DDWRDC					
TITLE	ASSEMBLY 'A', 'B' & 'C' - REVERSE ANGLE INSTALL DETAILS					
SIZE	D	DWG NO	60-022270-00B	REV	E	
ECA	12426	SCALE	NONE	INVENTOR	SHEET 4 OF 19	



SECTION D-D

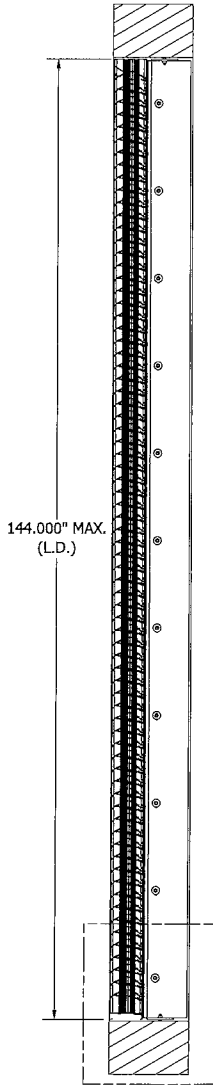
REF DETAIL F/03
FOR JAMB CONNECTION DETAIL (WOOD)
REF DETAIL G/03
FOR JAMB CONNECTION DETAIL (STEEL)
REF DETAIL H/03
FOR JAMB CONNECTION DETAIL (CONCRETE)
REF DETAIL J/03
FOR JAMB CONNECTION DETAIL (CMU)
REF DETAIL K/03
FOR JAMB CONNECTION DETAIL (UNIVERSAL SLEEVE)

REF DETAIL Y/08
FOR VISIBLE MULLION SUPPORT CONNECTION
(WOOD/STEEL/CONCRETE)
REF DETAIL Z/08, AA/08
FOR VISIBLE MULLION SUPPORT CONNECTION (CMU)
REF DETAIL AB/08
FOR VISIBLE MULLION SUPPORT BRACKET CONNECTION
(UNIVERSAL SLEEVE)



ASSEMBLY "B" - 3X1 MULTI SECTION VIEW
MAX. SHIP SECTION : 87.938" W X 144" H

2"x1/8" THICK CONT. ALUM FLAT STRAP (ITEM #6)
WELDED TO HEAD/SILL & ALSO AT EACH BLADE BRACE



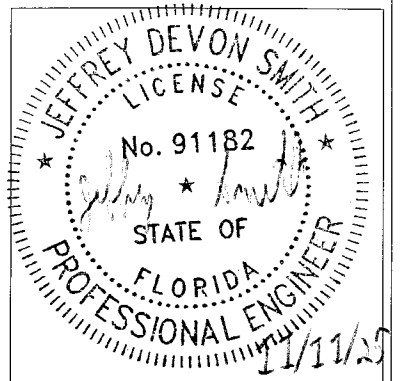
SECTION C-C

REF DETAIL S/07
FOR MULLION SUPPORT ATTACHMENT
PLATE INSTALLATION DETAIL @ SILL(WOOD)
REF DETAIL T/07
FOR MULLION SUPPORT ATTACHMENT
PLATE INSTALLATION DETAIL @ SILL (STEEL)
REF DETAIL U/07
FOR MULLION SUPPORT ATTACHMENT
PLATE INSTALLATION DETAIL @ SILL (CONCRETE)
REF DETAIL V/07
FOR MULLION SUPPORT ATTACHMENT
PLATE INSTALLATION DETAIL @ SILL (CMU)
REF DETAIL W/07
FOR MULLION SUPPORT ATTACHMENT
PLATE INSTALLATION DETAIL @ SILL (UNIVERSAL SLEEVE)

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04

Expiration Date 02/23/2027

By *[Signature]*
Miami-Dade Product Control

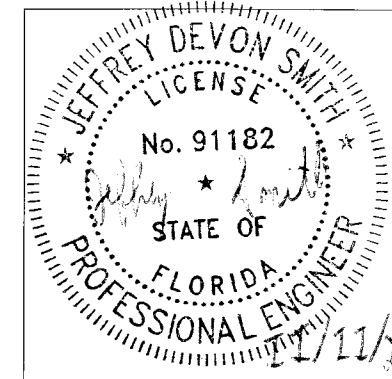


JEFFREY D. SMITH, P.E.
NO. 91182

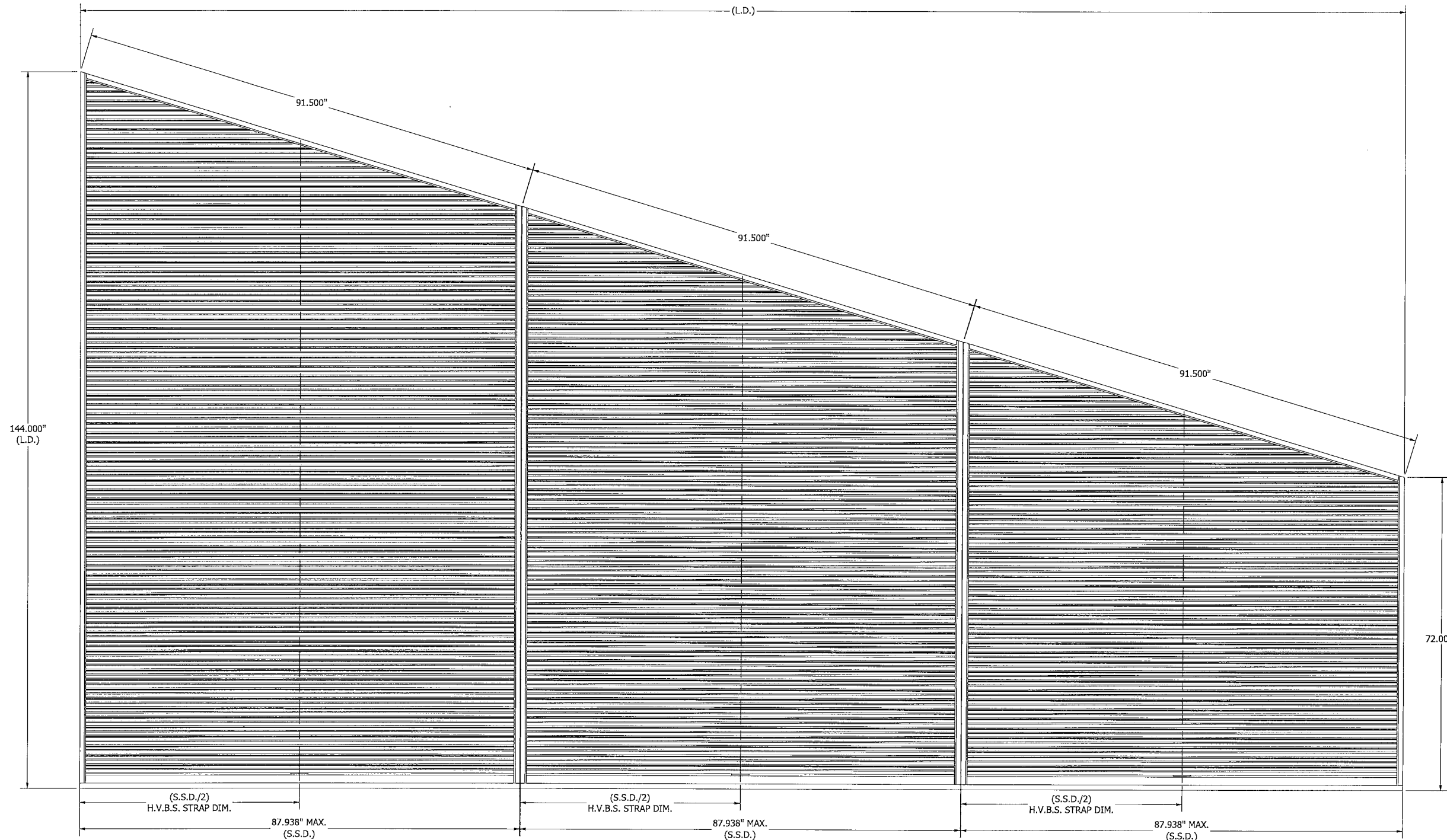
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT SDDWRDC					
	TITLE SDDWRDC ASSEMBLY "B"					
	SIZE D	DWG NO 60-022270-00B		REV E		
EON 12426	SCALE NONE	INVENTOR	SHEET 5 OF 19			



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 NOA-No. 25-1229.04
 Expiration Date 02/23/2027
 By *[Signature]*
 Miami-Dade Product Control

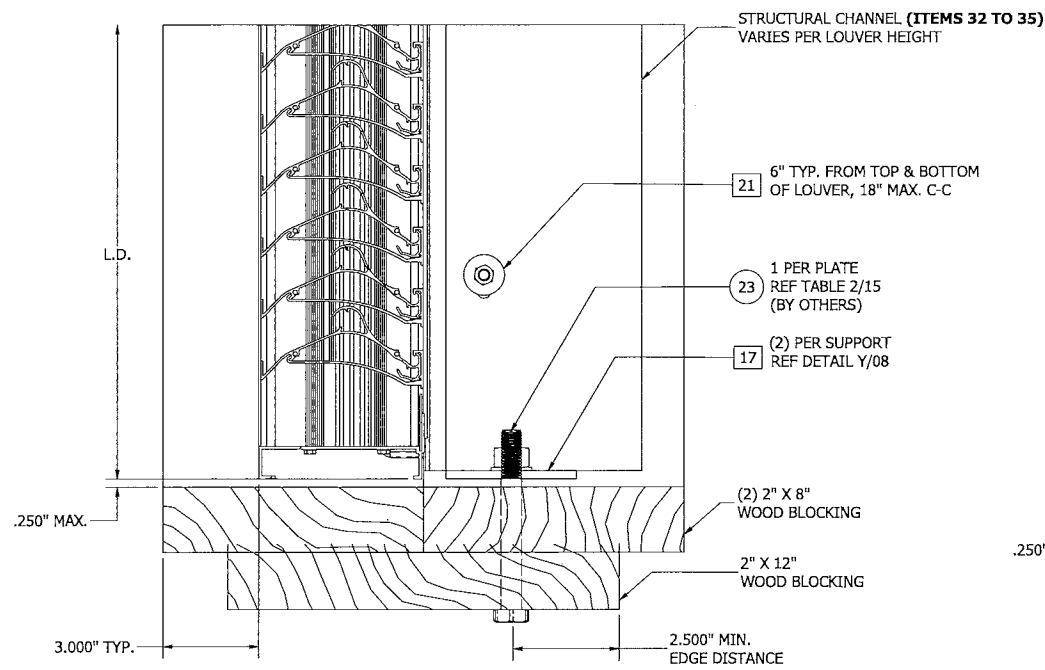


JEFFREY D. SMITH, P.E.
 NO. 91182

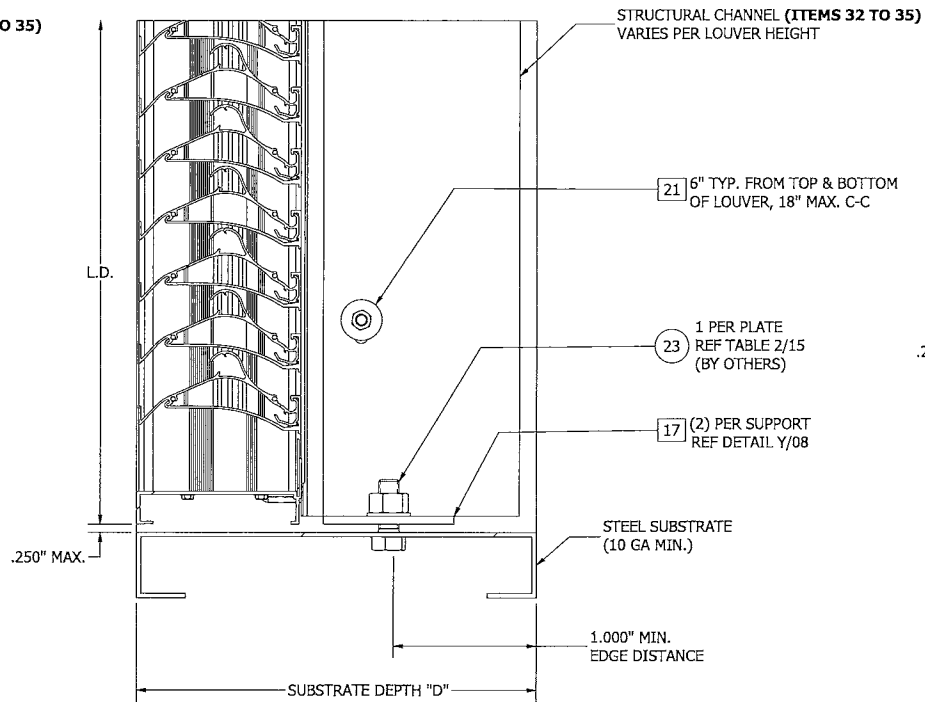


ASSEMBLY "C" - 3X1 MULTI SECTION VIEW
 MAX. SHIP SECTION : 87.938" W X 144" H

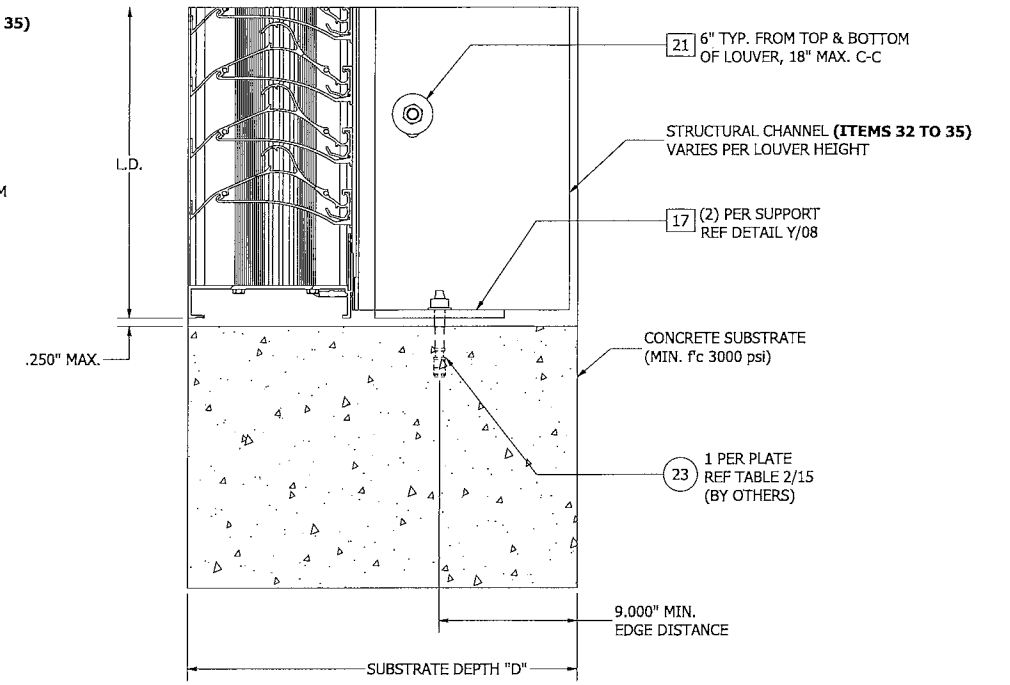
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	<p>RELIABLE <small>ARCHITECTURAL PRODUCTS</small> <small>QUANASS - SCHREIBER - MUELLER - STURM - HEDLEY</small></p> <p>1300 Enterprise Road, Geneva, Alabama 36340 PROPRIETARY AND CONFIDENTIAL</p>					
	PRODUCT	5DDWRDC				
	TITLE	5DDWRDC ASSEMBLY "C"				
	SIZE	D	DWG NO.	60-022270-00B		
	SCALE	NONE		INVENTOR	SHEET 6 OF 19	
EQN	12426					



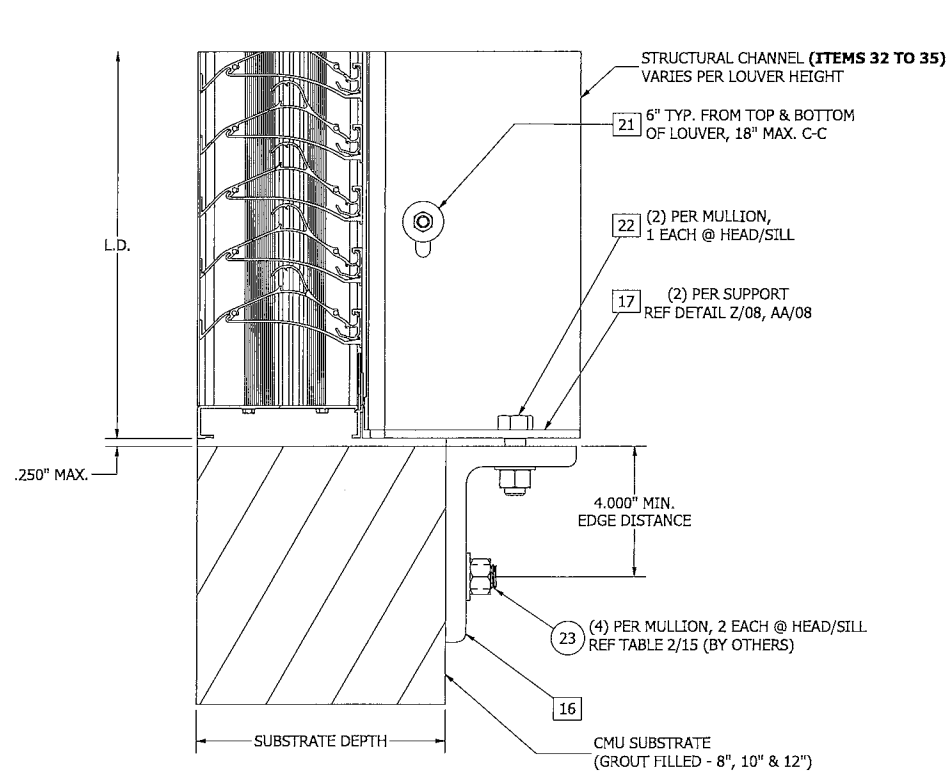
DETAIL S
ASSEMBLY 'B' & 'C' - MULLION SUPPORT ATTACHMENT PLATE
INSTALLATION @ HEAD/SILL (WOOD SUBSTRATE ONLY)



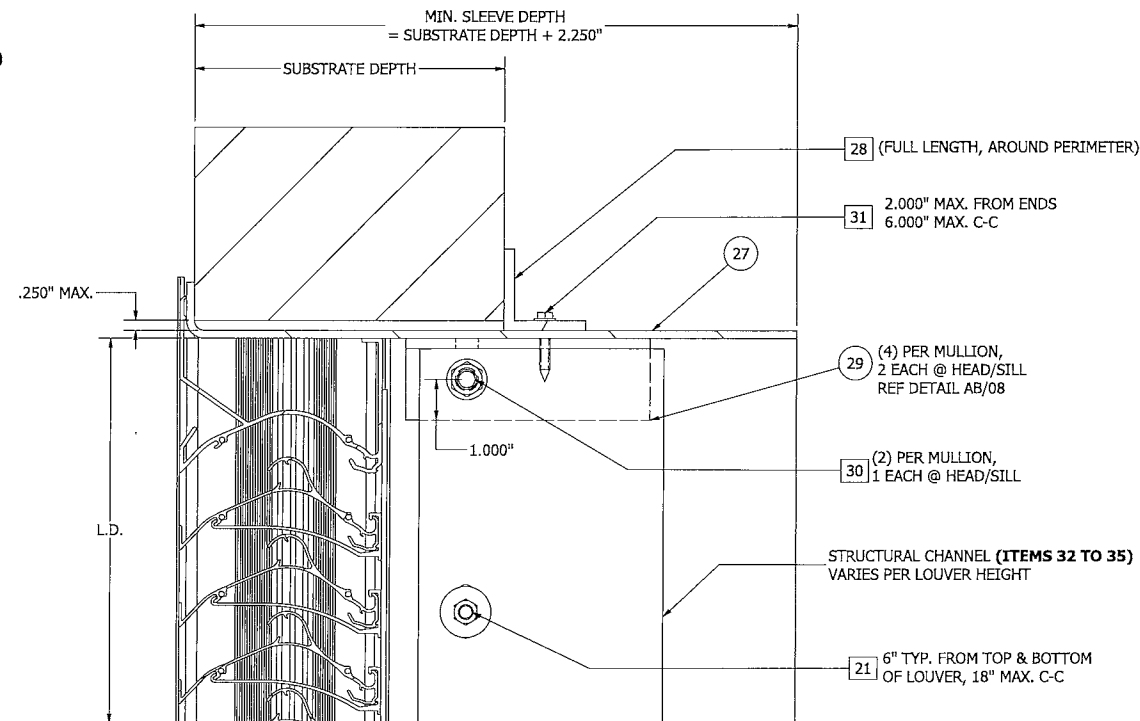
DETAIL T
ASSEMBLY 'B' & 'C' - MULLION SUPPORT ATTACHMENT PLATE
INSTALLATION @ HEAD/SILL (STEEL SUBSTRATE ONLY)



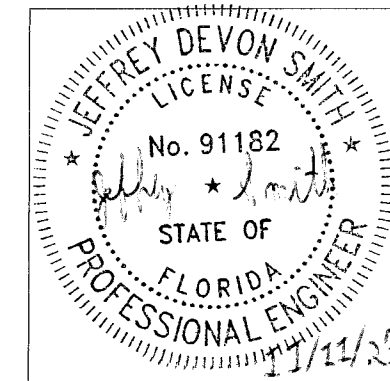
DETAIL U
ASSEMBLY 'B' & 'C' - MULLION SUPPORT ATTACHMENT PLATE
INSTALLATION @ HEAD/SILL (CONCRETE SUBSTRATE ONLY)



DETAIL V
ASSEMBLY 'B' & 'C' - MULLION SUPPORT ATTACHMENT PLATE
INSTALLATION @ HEAD/SILL (CMU SUBSTRATE ONLY)



DETAIL W
ASSEMBLY 'B' & 'C' - UNIVERSAL SLEEVE CONNECTION DETAIL
(TYP. @ PERIMETER)

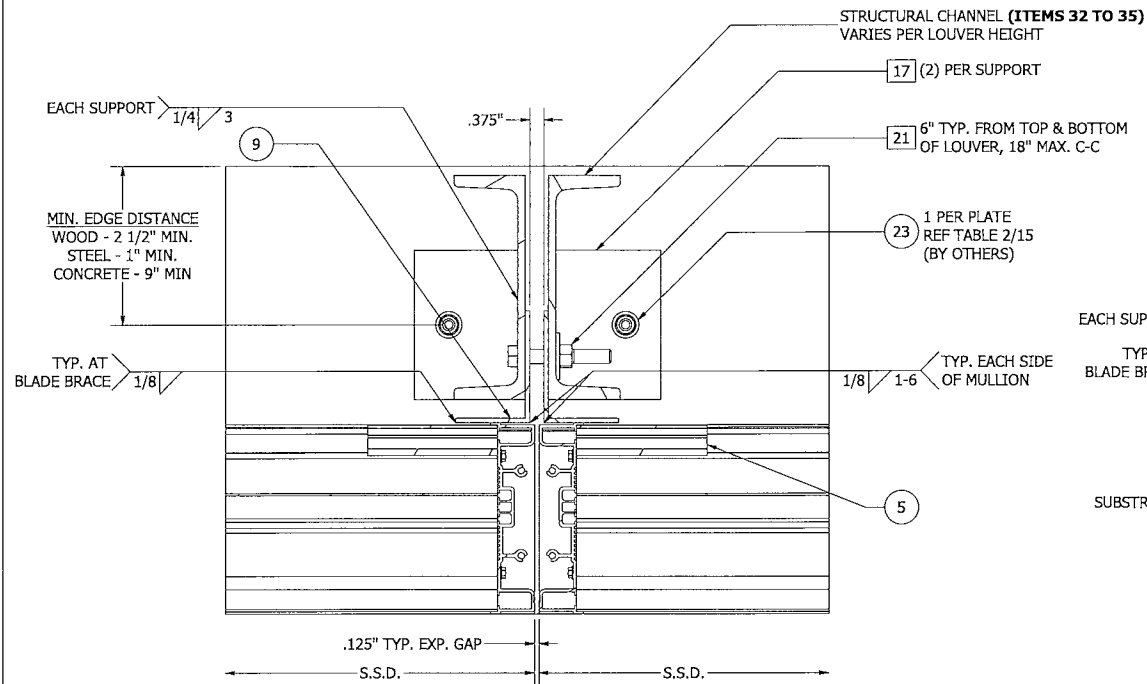


JEFFREY D. SMITH, P.E.
NO. 91182

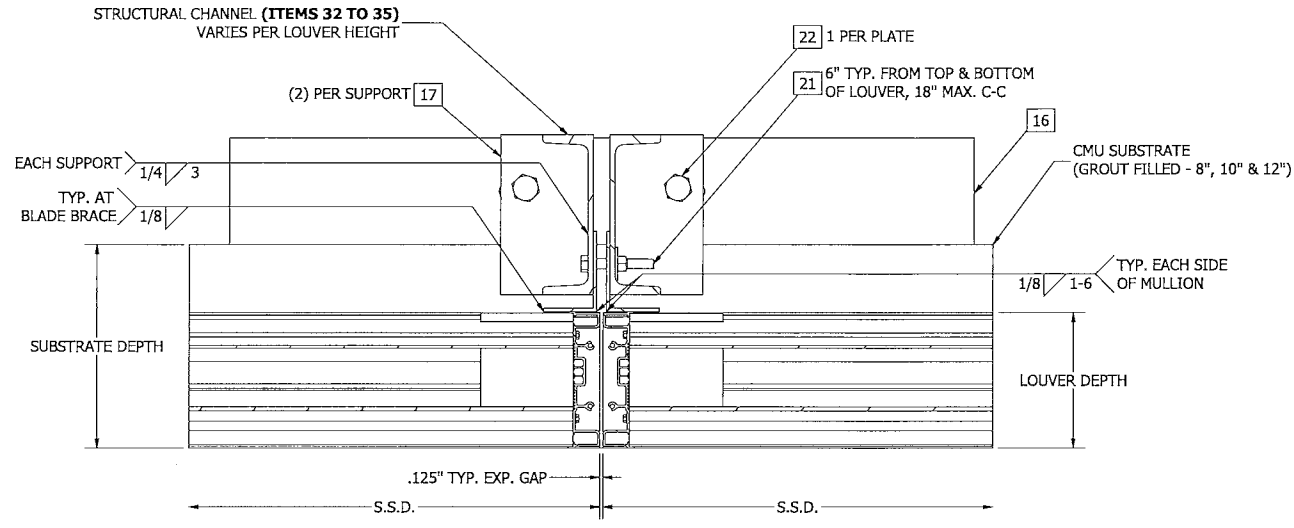
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027
By *[Signature]*
Miami-Dade Product Control

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, JUNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL						
PRODUCT	SDDWDC					
TITLE	ASSEMBLY 'B' & 'C' - MULLION SUPPORT CONNECTION @ HEAD/SILL DETAILS					
SIZE	D	DWS NO	60-022270-00B			
SCALE	NONE	INVENTOR	SHEET 7 OF 19			
ECN	12426					

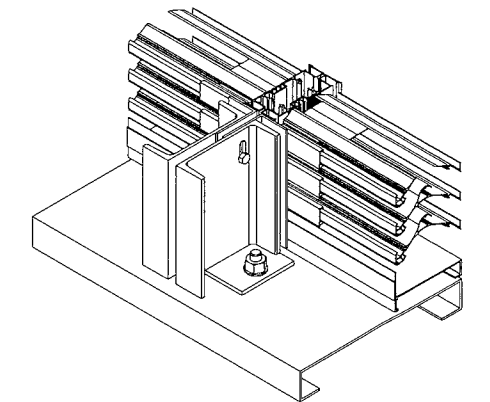




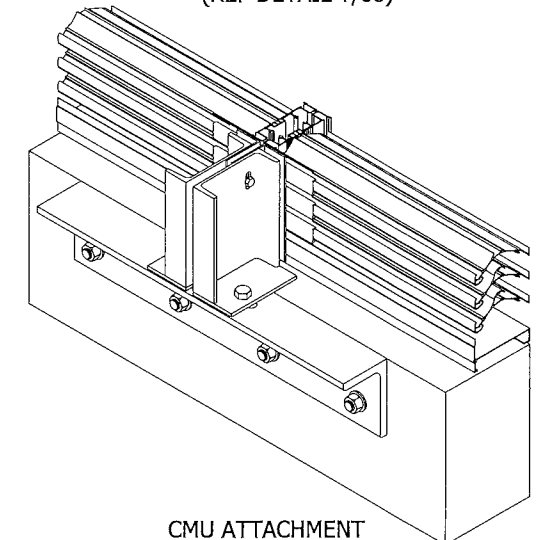
DETAIL Y
ASSEMBLY 'B' & 'C' - VISIBLE MULLION SUPPORT CONNECTION DETAIL
(WOOD, STEEL, CONCRETE SUBSTRATE ONLY)



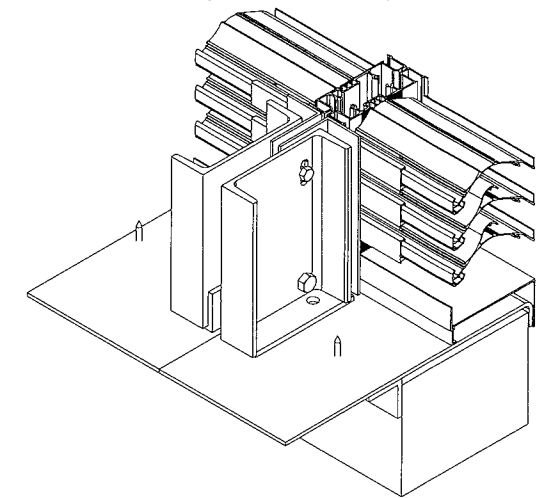
DETAIL Z
ASSEMBLY 'B' & 'C' - VISIBLE MULLION SUPPORT CONNECTION DETAIL
(CMU SUBSTRATE ONLY)



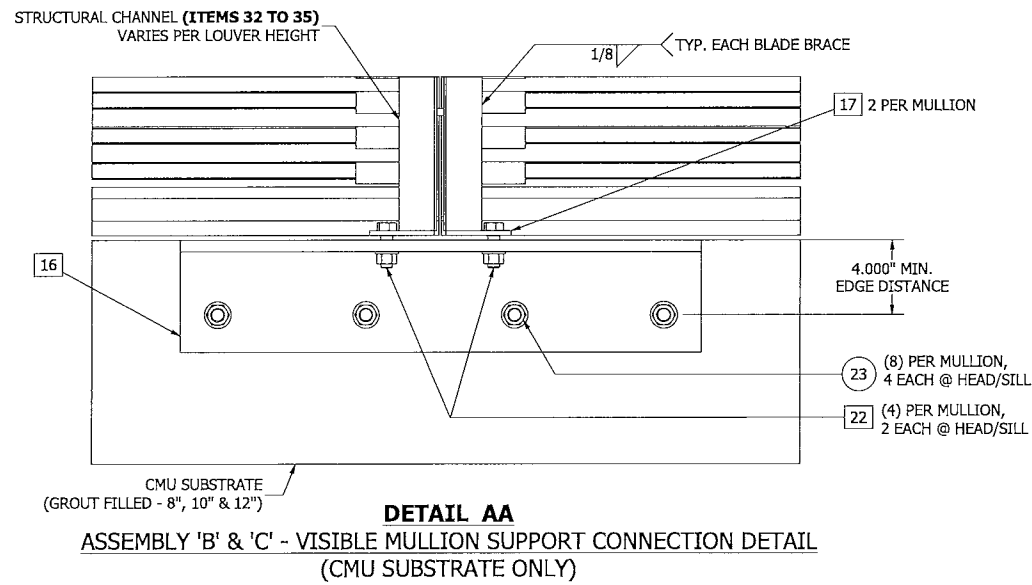
STEEL (SHOWN ATTACHMENT)
(WOOD, CONCRETE SIM.)
(REF DETAIL Y/08)



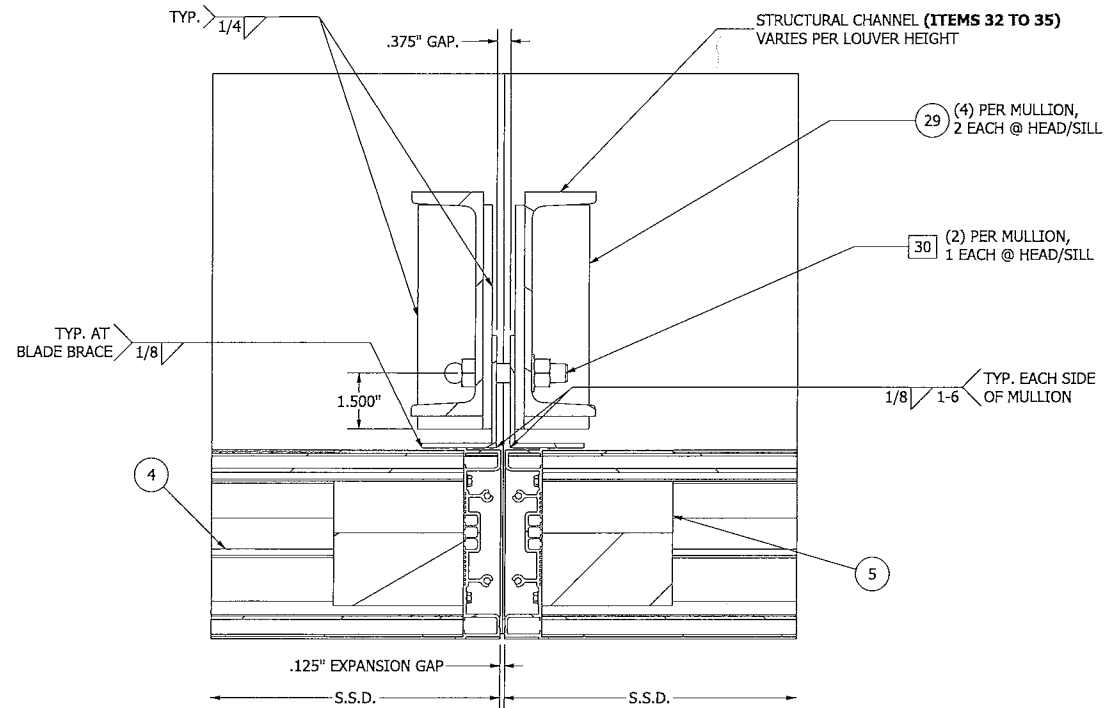
CMU ATTACHMENT
(REF DETAIL Z/08)



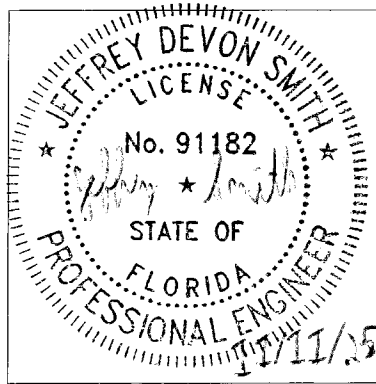
UNIVERSAL SLEEVE ATTACHMENT
(REF DETAIL AB/08)



DETAIL AA
ASSEMBLY 'B' & 'C' - VISIBLE MULLION SUPPORT CONNECTION DETAIL
(CMU SUBSTRATE ONLY)



DETAIL AB
ASSEMBLY 'B' & 'C' - VISIBLE MULLION SUPPORT BRACKET ATTACHMENT DETAIL
(UNIVERSAL SLEEVE ONLY)



JEFFREY D. SMITH, P.E.
NO. 91182

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04

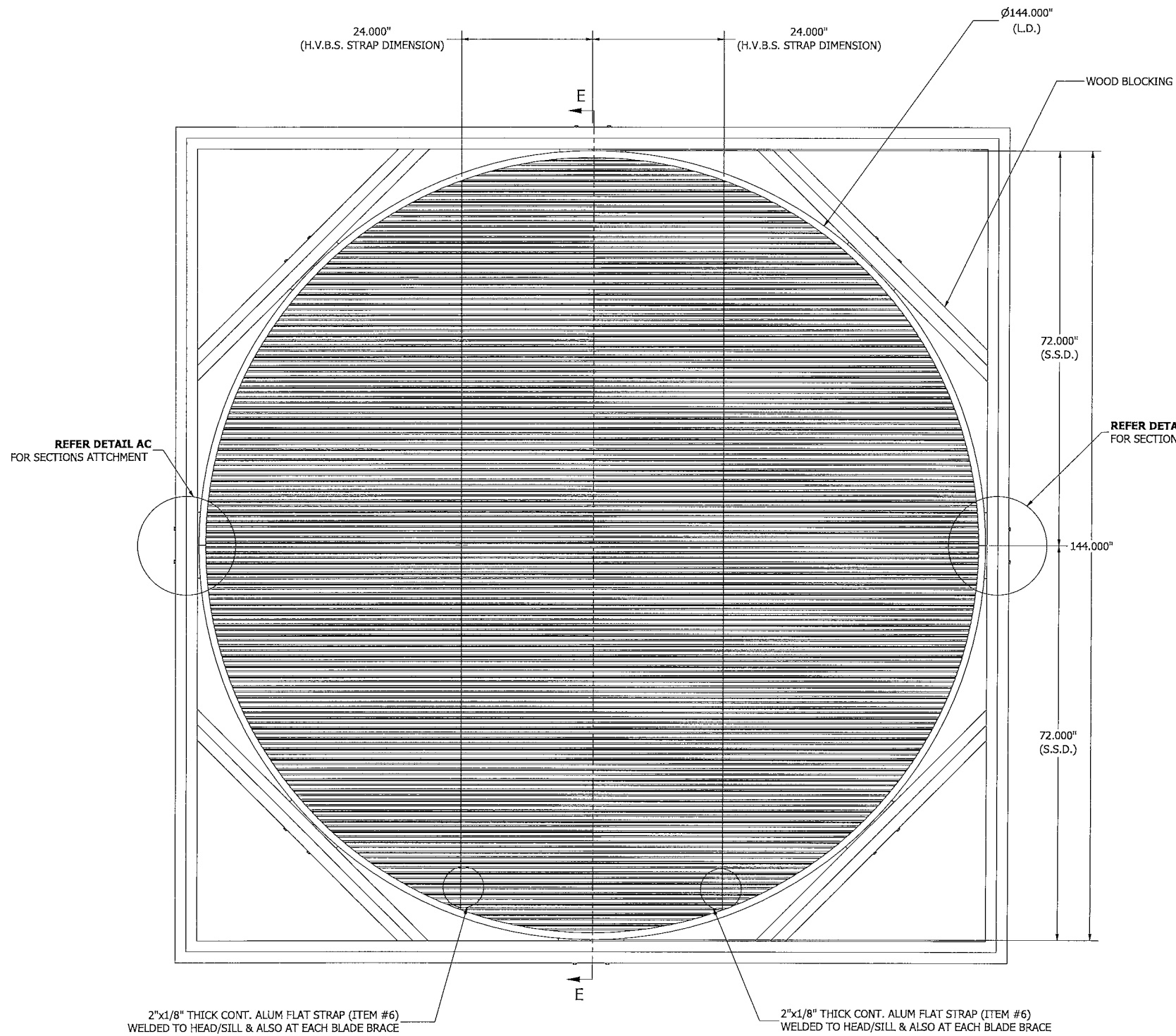
Expiration Date 02/23/2027

By *[Signature]*
Miami-Dade Product Control

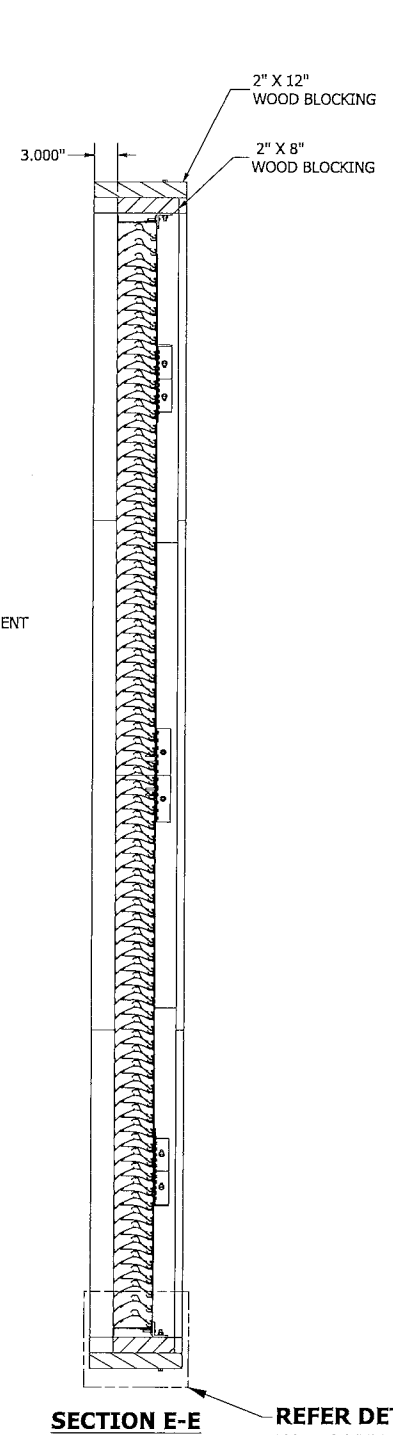
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL						
PRODUCT	SDWDRDC					
TITLE	ASSEMBLY 'B' & 'C' - VISIBLE MULLION SUPPORT CONNECTION DETAILS					
SIZE		DWG NO.	60-022270-00B			
D						REV E
EGN	12426	SCALE	NONE	INVENTOR	SHEET 8 OF 19	



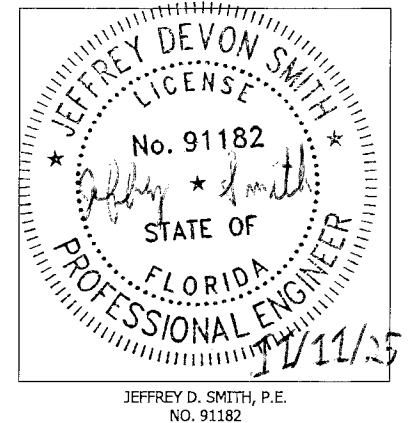
1300 Enterprise Road,
Geneva, Alabama 36340
PROPRIETARY AND
CONFIDENTIAL



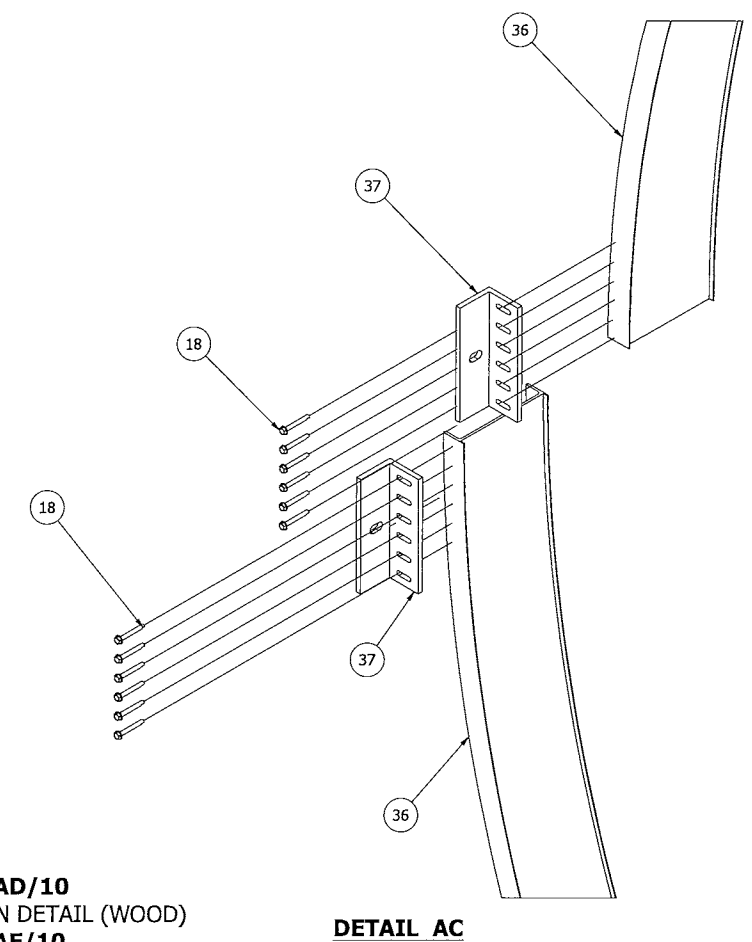
ASSEMBLY "D" - 1X2 MULTI SECTION VIEW
 MAX. SHIP SECTION : 144" W X 72" H



SECTION E-E
 REFER DETAIL AD/10 FOR CONNECTION DETAIL (WOOD)
 REFER DETAIL AE/10 FOR CONNECTION DETAIL (STEEL)
 REFER DETAIL AF/10 FOR CONNECTION DETAIL (CONCRETE)
 REFER DETAIL AH,AJ,AK/11 FOR CONNECTION DETAIL IN REVERSE DIRECTION (WOOD,STEEL,CONCRETE)



PRODUCT RENEWED
 as complying with the Florida Building Code
 NOA-No. 25-1229.04
 Expiration Date 02/23/2027
 By *[Signature]*
 Miami-Dade Product Control

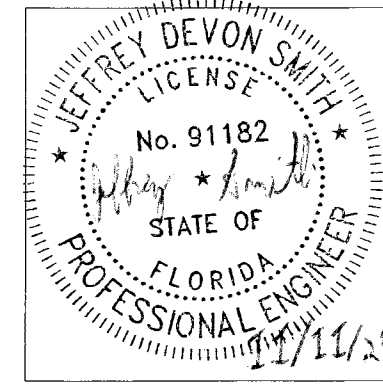


DETAIL AC

CIRCULAR SHAPE LOUVER ATTACHMENT ANGLE OPTIONS			
DIAMETER	ATTACHMENT ANGLE	ATTACHMENT ANGLE IN REVERSE DIRECTION	QTY.
GREATER THAN 104" TO 144"	ITEM NO. 37 (6" LONG)	ITEM NO. 44 (6" LONG)	2 ANGLES AT EACH 45-DEGREE AROUND CIRCLE
GREATER THAN 60" TO 104"	ITEM NO. 37 (6" LONG)	ITEM NO. 44 (6" LONG)	1 ANGLE AT EACH 45-DEGREE AROUND CIRCLE
12" TO 60"	ITEM NO. 39 (2" LONG)	ITEM NO. 45 (2" LONG)	1 ANGLE AT EACH 45-DEGREE AROUND CIRCLE

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT: SDDWRDC					
	TITLE: SDDWRDC ASSEMBLY "D"					
	SIZE: D	DWG NO: 60-022270-00B	REV: E			
EON: 12426	SCALE: NONE	INVENTOR:	SHEET 9 OF 19			



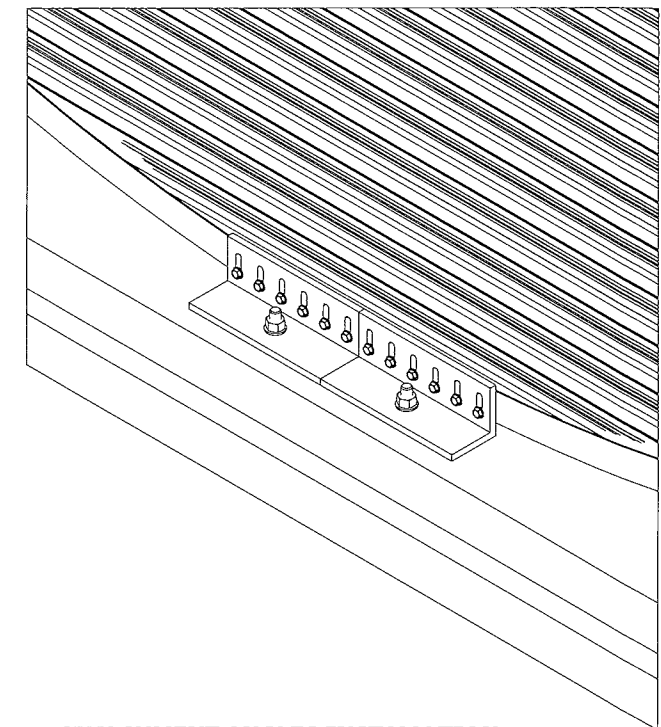
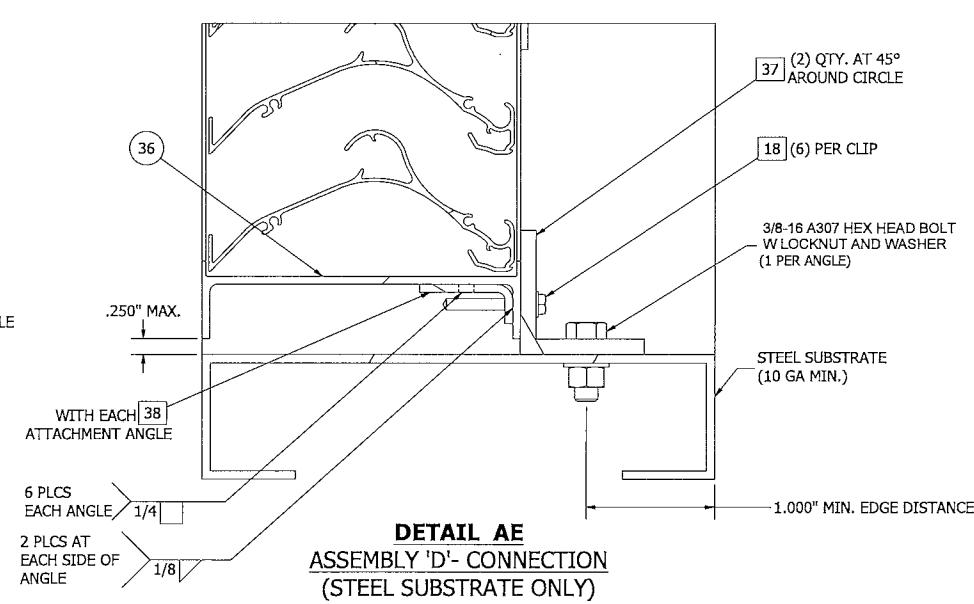
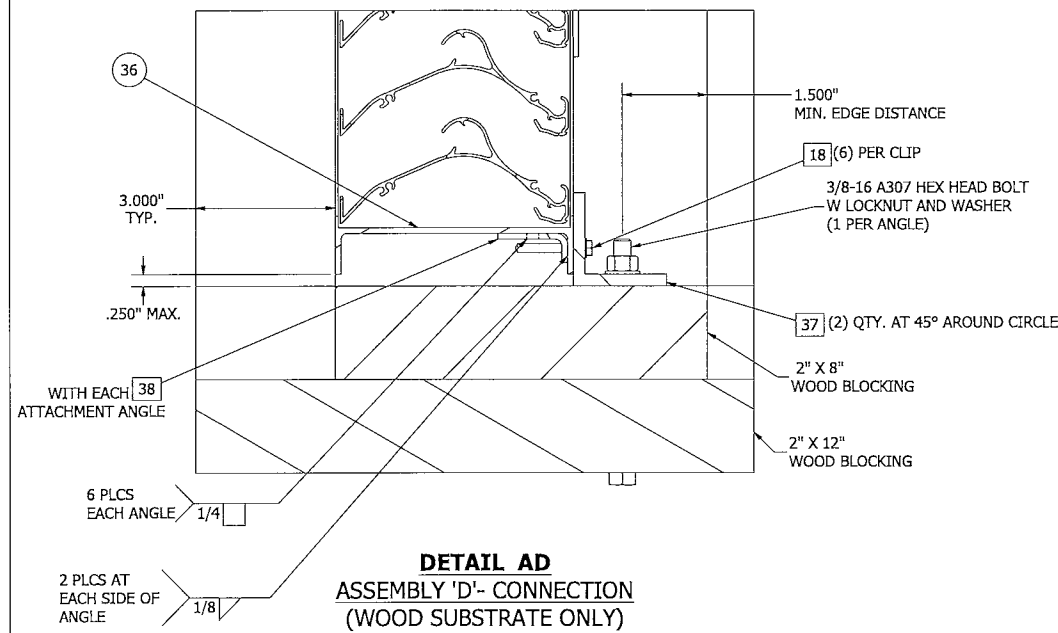


PRODUCT RENEWED
 as complying with the Florida
 Building Code
 NOA-No. 25-1229.04

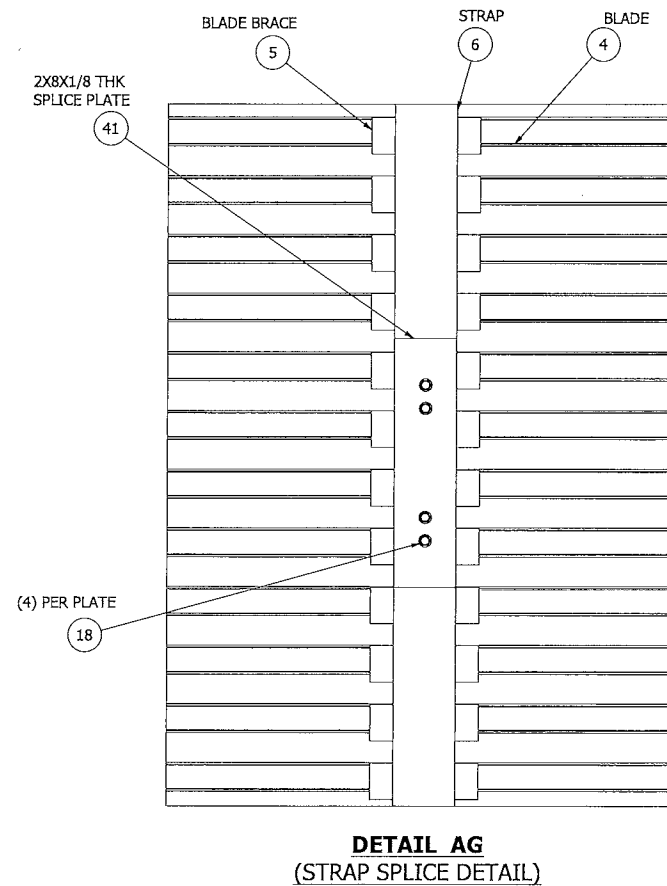
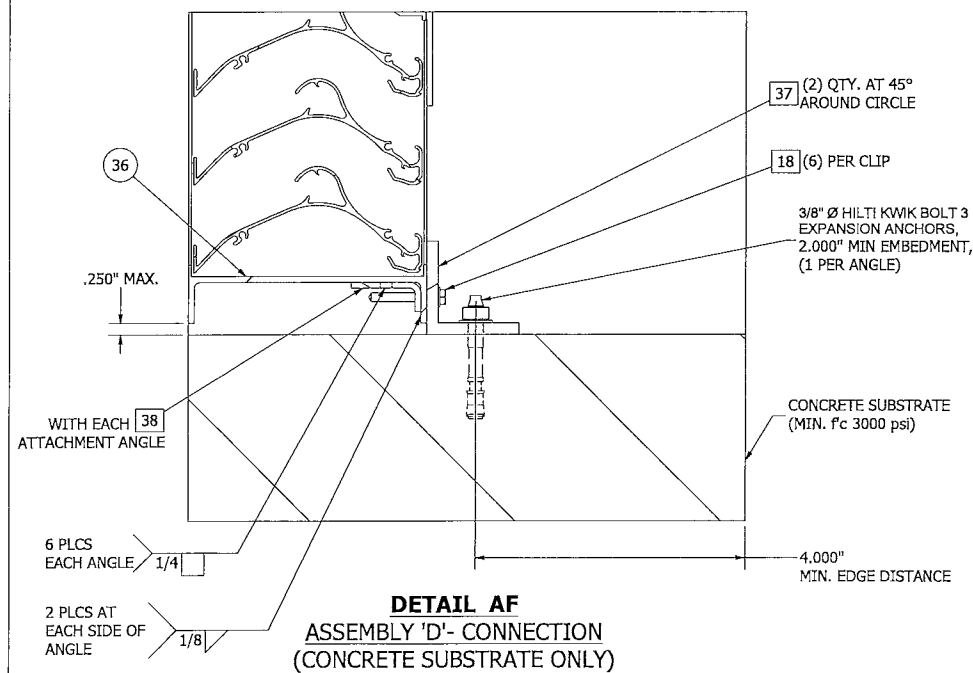
Expiration Date 02/23/2027

By *[Signature]*
 Miami-Dade Product Control

JEFFREY D. SMITH, P.E.
 NO. 91182



ATTACHMENT ANGLES INSTALLTION
 (ASSEMBLY D)



E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT SDDWRDC					
TITLE ASSEMBLY "D" INSTALL DETAILS						
SIZE	D		DIWG NO	60-022270-00B		REV E
ECN	12426	SCALE	NONE	INVENTOR	SHEET 10 OF 19	

RELIABLE
 ARCHITECTURAL PRODUCTS
 1300 Enterprise Road,
 Geneva, Alabama 36340
 PROPRIETARY AND
 CONFIDENTIAL

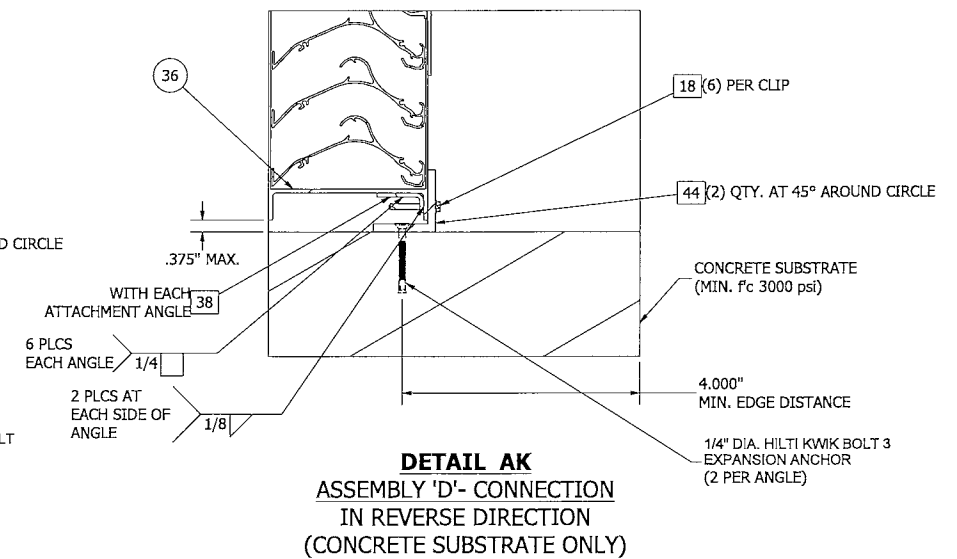
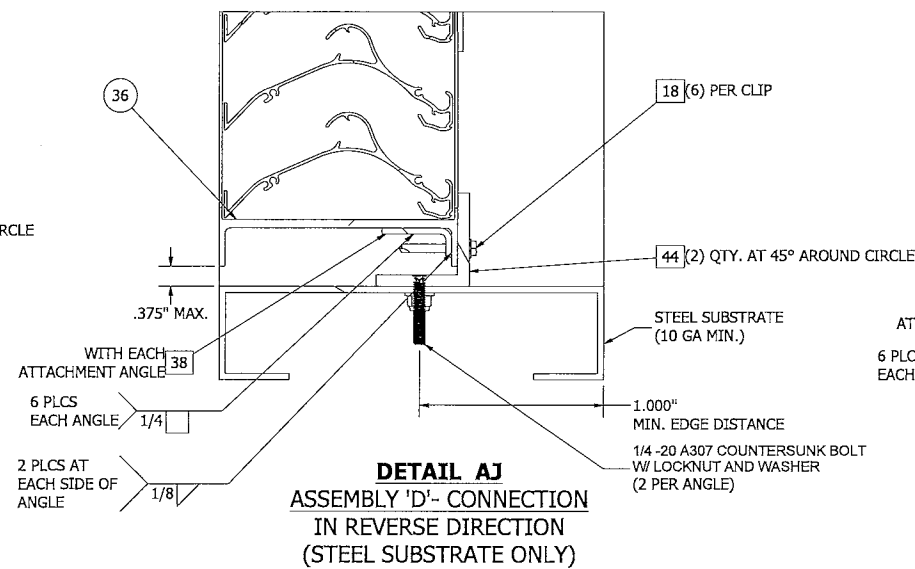
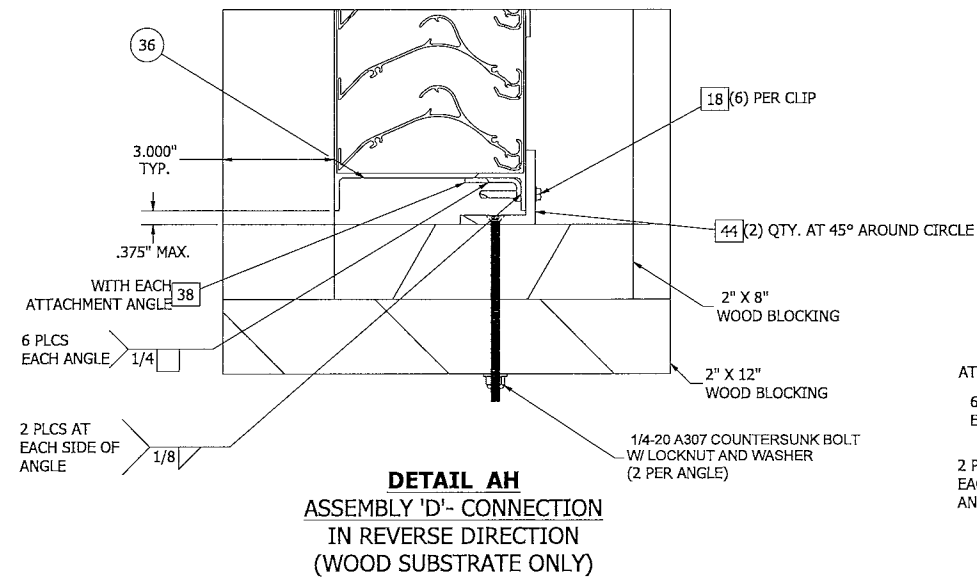
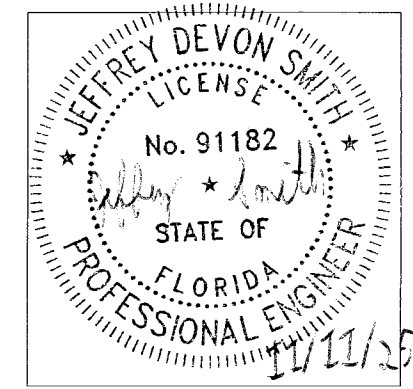


TABLE 01 - 5DDWRDC - COUNTERSUNK WALL FASTENER TABLE (N.I.C.)

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	LOCATION	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	SPACING
WOOD	SPECIFIC GRAVITY = 0.42	HEAD/SILL	1/4-20 A307 COUNTERSUNK BOLT W/ LOCKNUT AND WASHER	NA	1 1/2"	12" MAX.O.C. (TO MATCH CLIP SPACING)
		JAMBS	1/4 -20 A307 COUNTERSUNK BOLT W/ LOCKNUT AND WASHER	NA	1 1/2"	9" O.C.
STEEL	STEEL - MIN. 10 GA	HEAD/SILL	1/4 -20 A307 COUNTERSUNK BOLT W/ LOCKNUT AND WASHER	NA	1"	12" MAX.O.C. (TO MATCH CLIP SPACING)
		JAMBS	1/4 -20 A307 COUNTERSUNK BOLT W/ LOCKNUT AND WASHER	NA	1"	9" O.C.
CONCRETE	3000 PSI MIN. COMP. STRENGTH	HEAD/SILL	1/4" DIA. HILTI KWIK BOLT 3 EXPANSION ANCHOR	1 1/2 "	4"	12" MAX.O.C. (TO MATCH CLIP SPACING)
		JAMBS	1/4" DIA. HILTI KWIK BOLT 3 EXPANSION ANCHOR	1 1/2 "	4"	18" O.C.

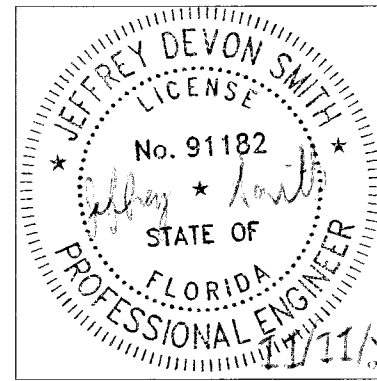


JEFFREY D. SMITH, P.E.
NO. 91182

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027
By *[Signature]*
Miami-Dade Product Control

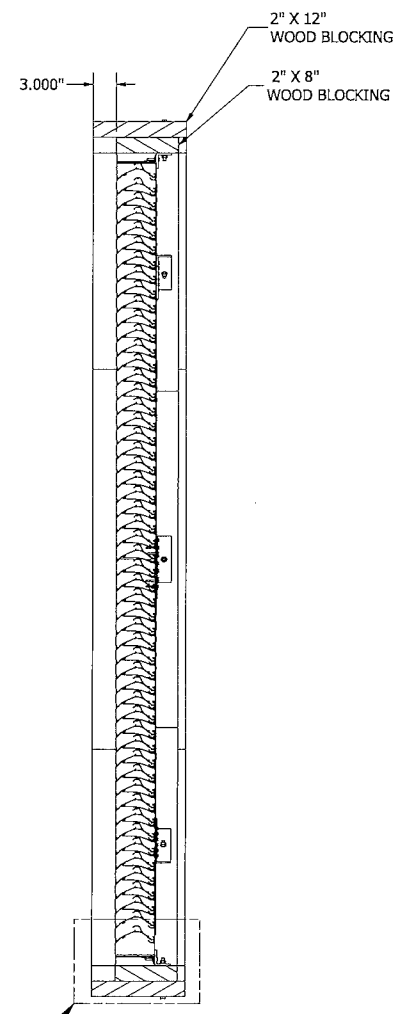
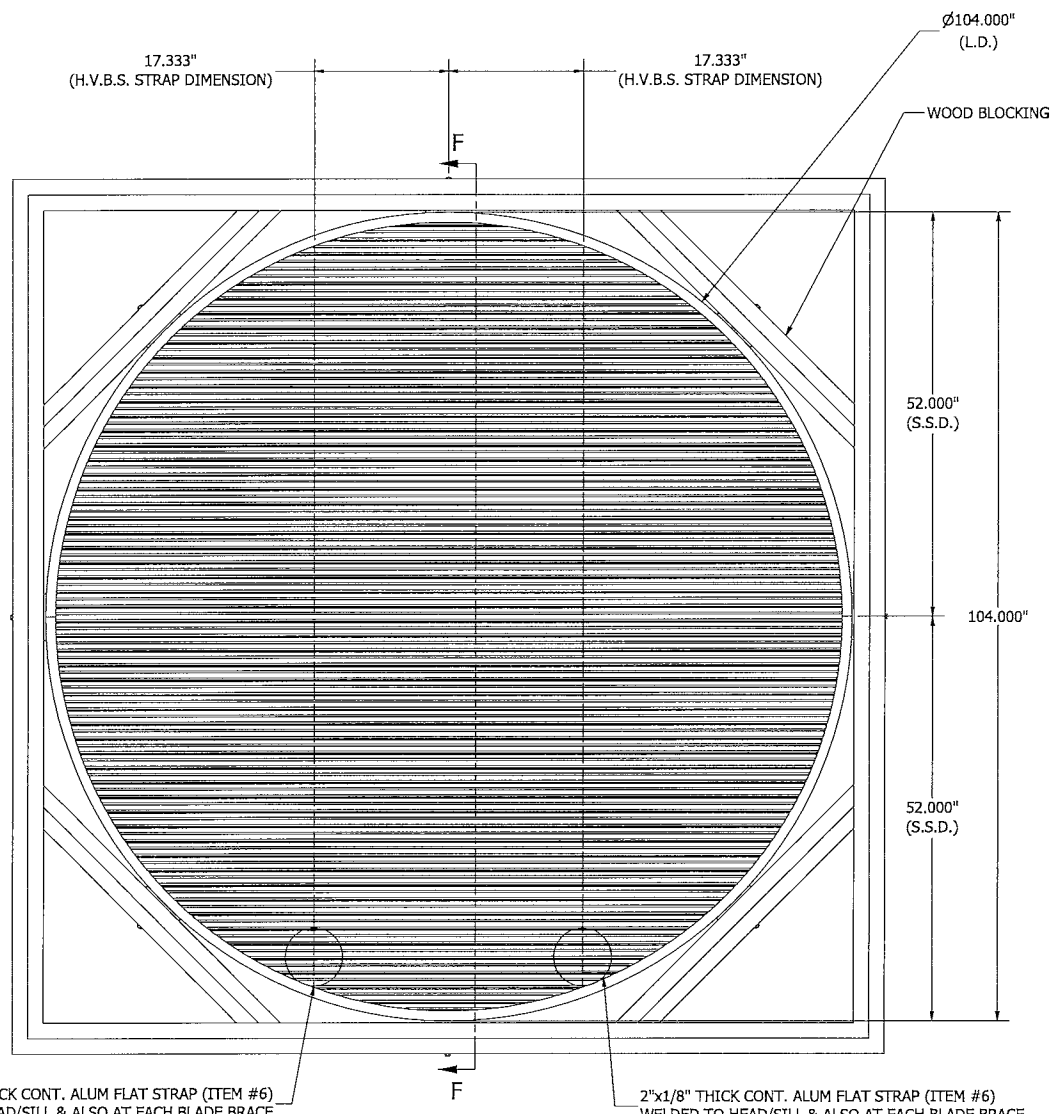
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL						
PRODUCT		5DDWRDC				
TITLE		ASSEMBLY "D" REVERSE ANGLE INSTALL DETAILS				
SIZE	D	DWG NO	60-022270-00B			REV E
EON	12426	SCALE	NONE	INVENTOR	SHEET 11 OF 19	



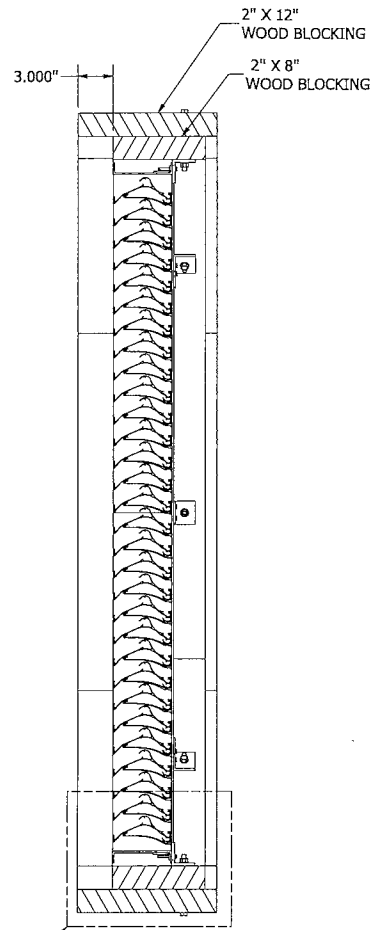
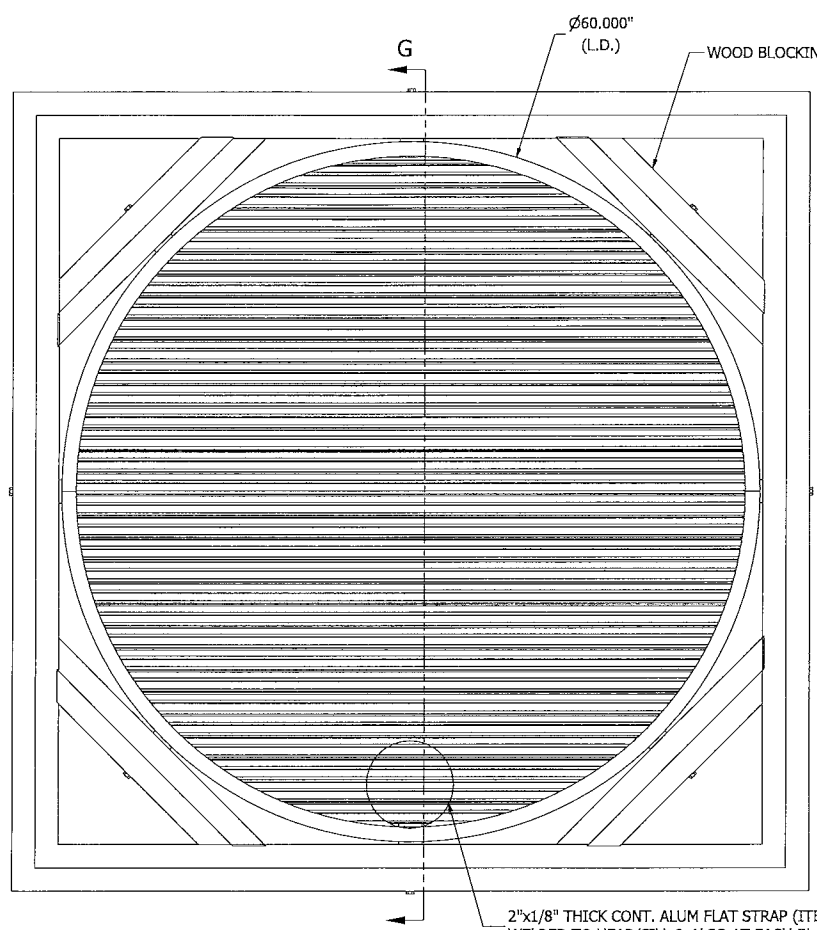


PRODUCT RENEWED
 as complying with the Florida
 Building Code
 NOA-No. 25-1229.04
 Expiration Date 02/23/2027
 By *[Signature]*
 Miami-Dade Product Control

JEFFREY D. SMITH, P.E.
 NO. 91182



SECTION F-F



SECTION G-G

2"x1/8" THICK CONT. ALUM FLAT STRAP (ITEM #6)
 WELDED TO HEAD/SILL & ALSO AT EACH BLADE BRACE

2"x1/8" THICK CONT. ALUM FLAT STRAP (ITEM #6)
 WELDED TO HEAD/SILL & ALSO AT EACH BLADE BRACE

ASSEMBLY "E" - MULTI SECTION VIEW
 SIZE - 104" DIAMETER

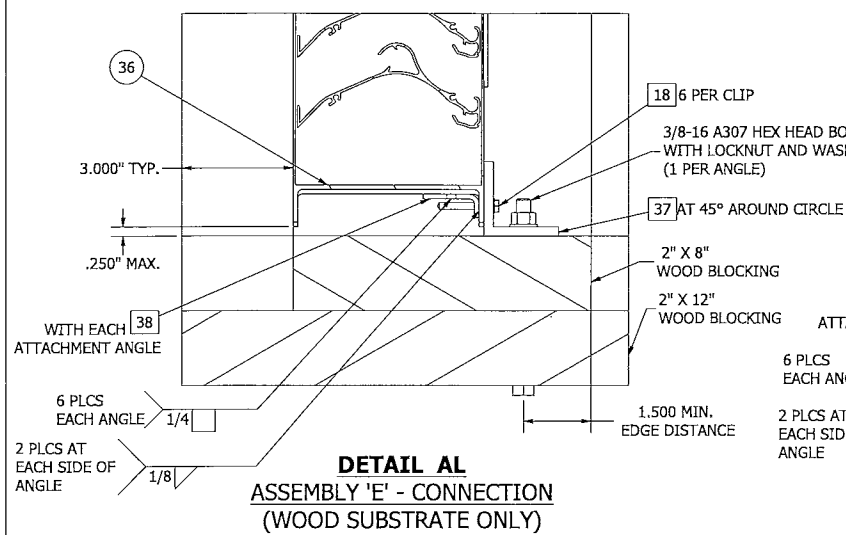
ASSEMBLY "F" - SINGLE SECTION VIEW
 SIZE - 60" DIAMETER

REFER DETAIL AL/13
 FOR CONNECTION DETAIL (WOOD)
REFER DETAIL AM/13
 FOR CONNECTION DETAIL (CONCRETE)
REFER DETAIL AN/13
 FOR CONNECTION DETAIL (STEEL)
REFER DETAIL AS,AT,AU/14
 FOR CONNECTION DETAIL
 IN REVERSE DIRECTION
 (WOOD,CONCRETE,STEEL)

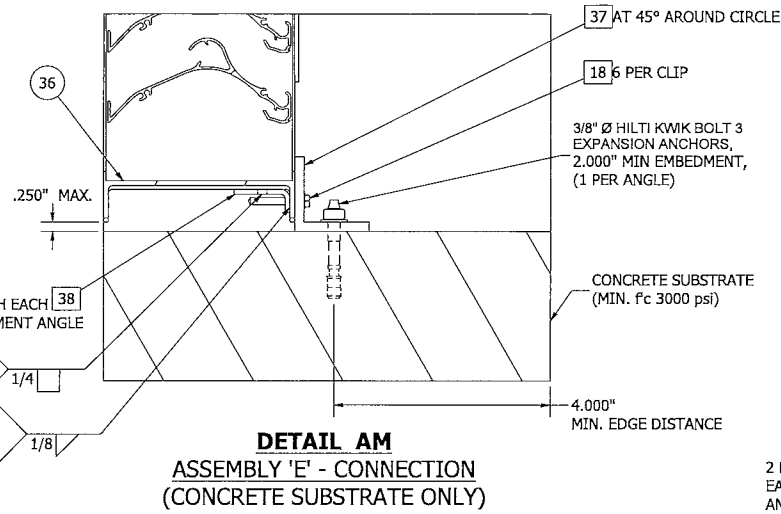
REFER DETAIL AP/13
 FOR CONNECTION DETAIL (WOOD)
REFER DETAIL AQ/13
 FOR CONNECTION DETAIL (CONCRETE)
REFER DETAIL AR/13
 FOR CONNECTION DETAIL (STEEL)
REFER DETAIL AV,AW,AY/14
 FOR CONNECTION DETAIL
 IN REVERSE DIRECTION
 (WOOD,CONCRETE,STEEL)

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT SDDWRDC					
	TITLE SDDWRDC ASSEMBLY "E" AND "F"					
	SIZE D	DWG NO	60-022270-00B	REV	E	
ECN	12426	SCALE	NONE	INVENTOR	SHEET 12 OF 19	

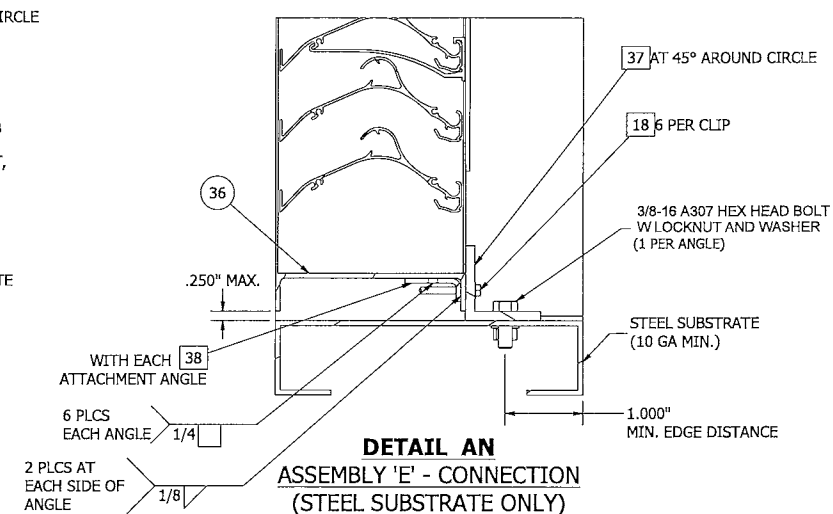




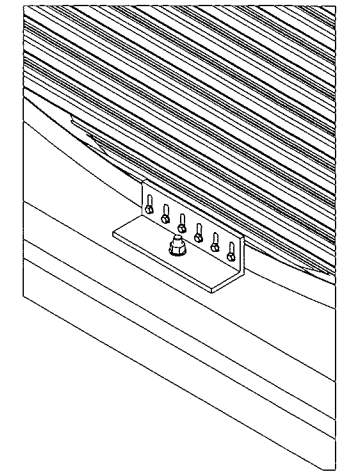
DETAIL AL
ASSEMBLY 'E' - CONNECTION
(WOOD SUBSTRATE ONLY)



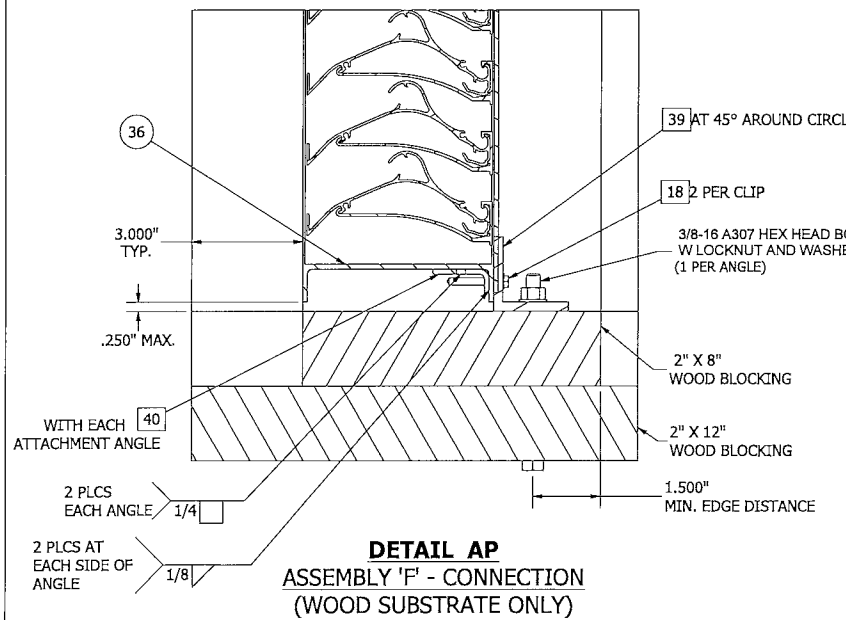
DETAIL AM
ASSEMBLY 'E' - CONNECTION
(CONCRETE SUBSTRATE ONLY)



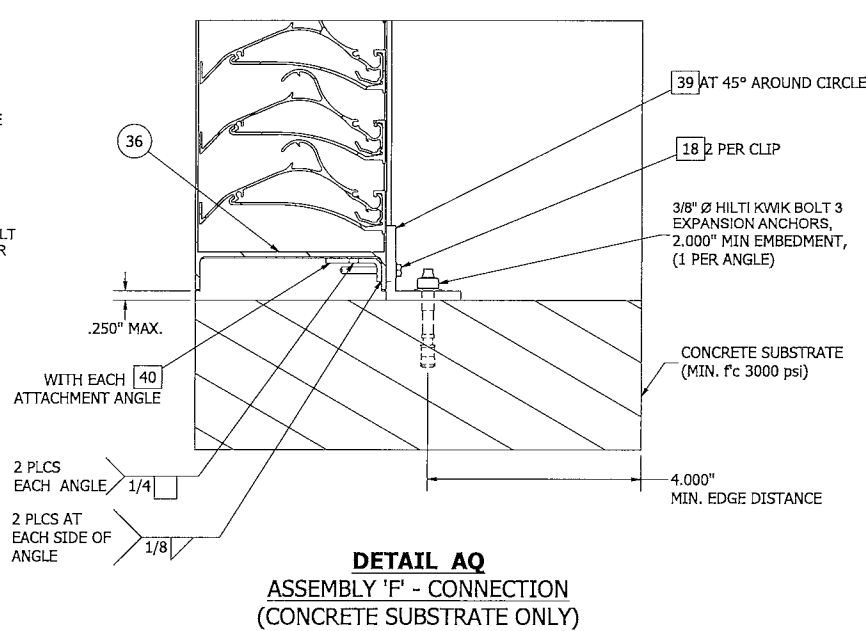
DETAIL AN
ASSEMBLY 'E' - CONNECTION
(STEEL SUBSTRATE ONLY)



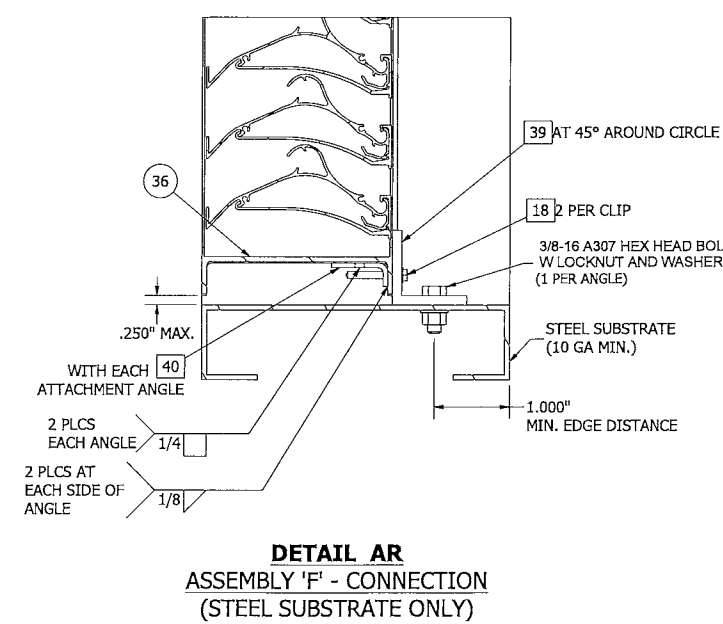
ATTACHMENT ANGLE INSTALLATION
ASSEMBLY 'E'



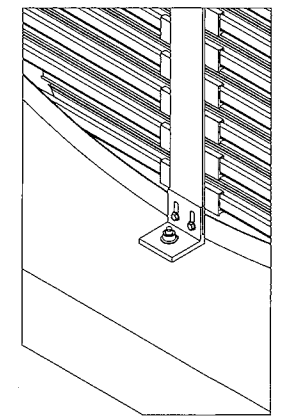
DETAIL AP
ASSEMBLY 'F' - CONNECTION
(WOOD SUBSTRATE ONLY)



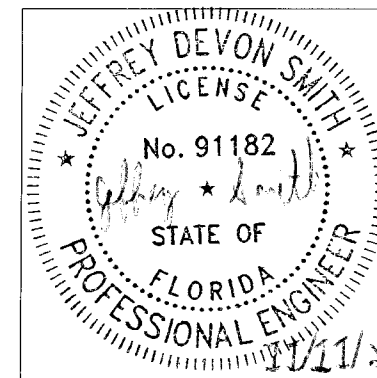
DETAIL AQ
ASSEMBLY 'F' - CONNECTION
(CONCRETE SUBSTRATE ONLY)



DETAIL AR
ASSEMBLY 'F' - CONNECTION
(STEEL SUBSTRATE ONLY)



ATTACHMENT ANGLE INSTALLATION
ASSEMBLY 'F'



JEFFREY D. SMITH, P.E.
NO. 91182

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04

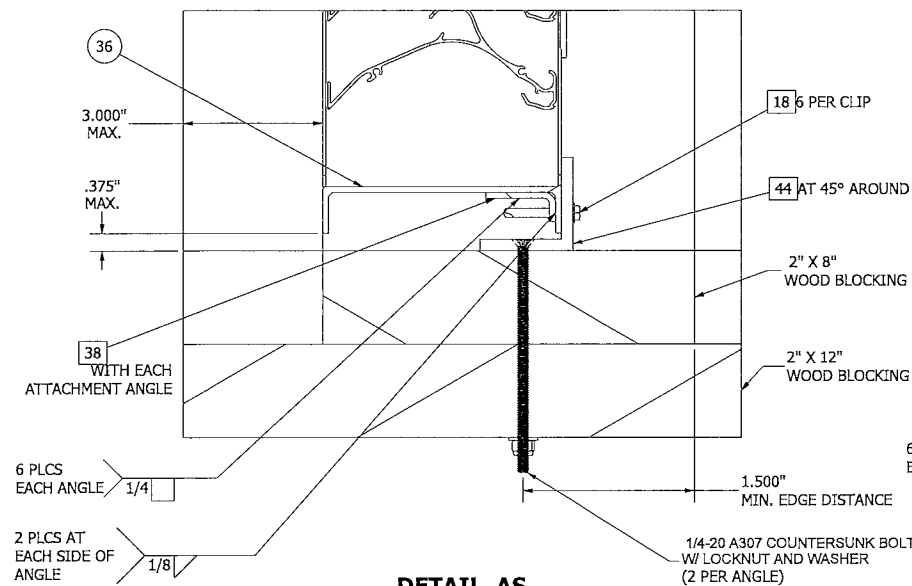
Expiration Date 02/23/2027

By *[Signature]*
Miami-Dade Product Control

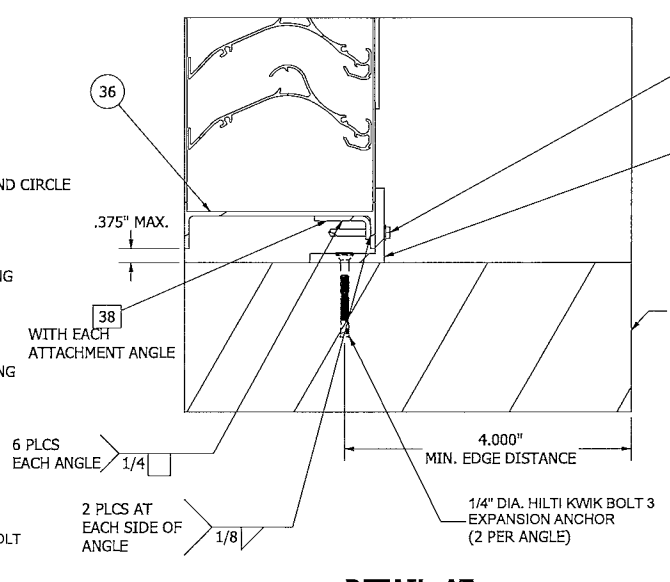
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT SDDWRDC					
	TITLE ASSEMBLY "E" AND "F" INSTALL					
	SIZE D	DWG NO	60-022270-00B		REV	E
EON	12426	SCALE	NONE	INVENTOR	SHEET 13 OF 19	



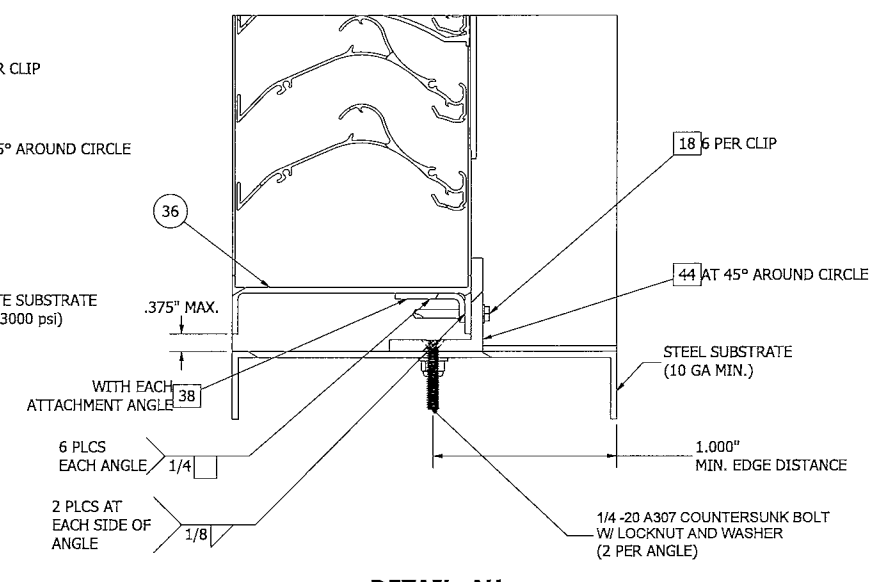
1300 Enterprise Road,
Geneva, Alabama 36340
PROPRIETARY AND
CONFIDENTIAL



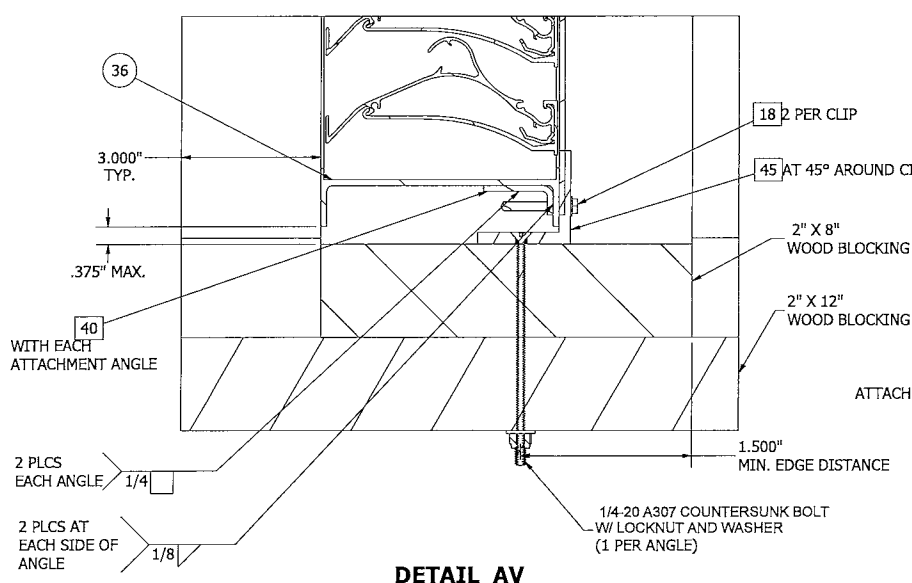
DETAIL AS
ASSEMBLY 'E' - CONNECTION
IN REVERSE DIRECTION
(WOOD SUBSTRATE ONLY)



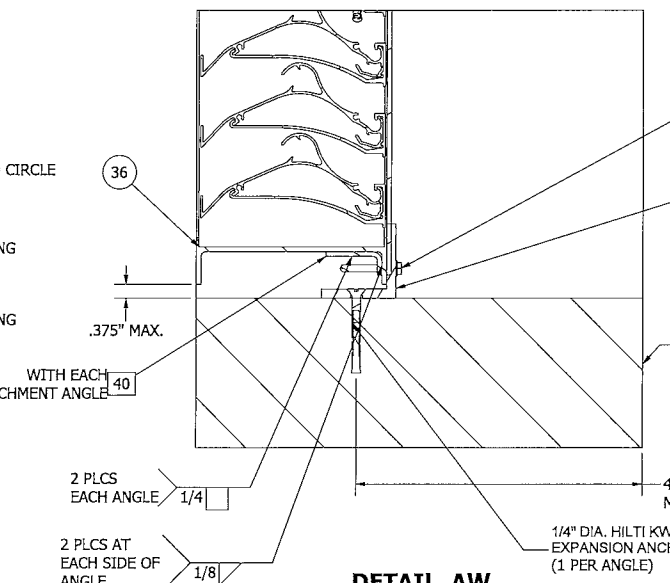
DETAIL AT
ASSEMBLY 'E' - CONNECTION
IN REVERSE DIRECTION
(CONCRETE SUBSTRATE ONLY)



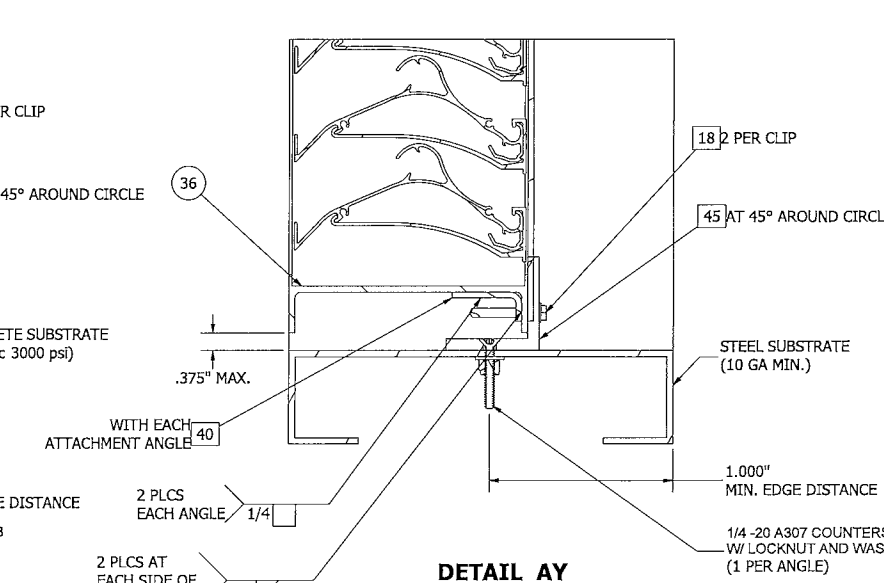
DETAIL AU
ASSEMBLY 'E' - CONNECTION
IN REVERSE DIRECTION
(STEEL SUBSTRATE ONLY)



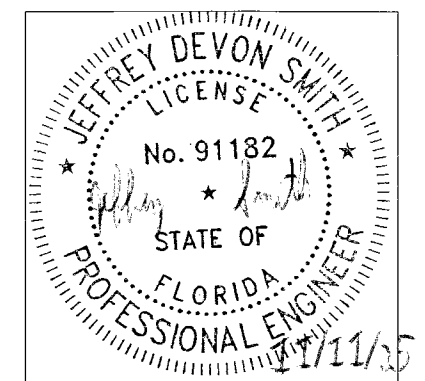
DETAIL AV
ASSEMBLY 'F' - CONNECTION
IN REVERSE DIRECTION
(WOOD SUBSTRATE ONLY)



DETAIL AW
ASSEMBLY 'F' - CONNECTION
IN REVERSE DIRECTION
(CONCRETE SUBSTRATE ONLY)



DETAIL AY
ASSEMBLY 'F' - CONNECTION
IN REVERSE DIRECTION
(STEEL SUBSTRATE ONLY)



JEFFREY D. SMITH, P.E.
NO. 91182

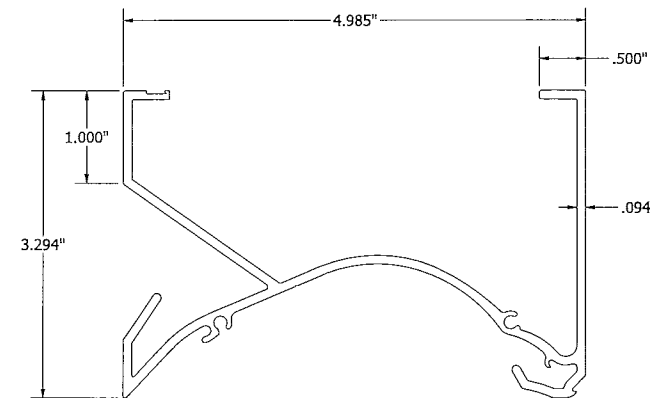
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027
By *[Signature]*
Miami-Dade Product Control

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT 5DDWRDC					
	TITLE ASSEMBLY "E" AND "F" REVERSE ANGLE INSTALL					
	SIZE D	DWG NO	60-022270-00B	REV	E	
ECN 12426	SCALE NONE	INVENTOR	SHEET 14 OF 19			

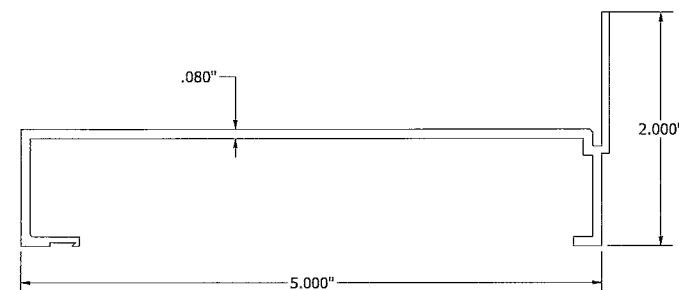


TABLE 02 - 5DDWRDC - WALL FASTENER TABLE (N.I.C.)

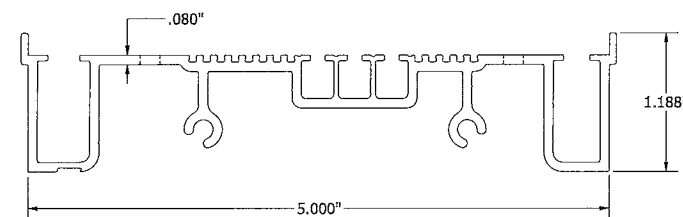
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	LOCATION	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	SPECIFIC GRAVITY = 0.4	HEAD/SILL	3/8-16 A307 HEX HEAD BOLT W LOCKNUT AND WASHER (UNDER BOLT HEAD & LOCKNUT)	NA	1 1/2"
		JAMBS	3/8-16 A307 HEX HEAD BOLT W LOCKNUT AND WASHER (UNDER BOLT HEAD & LOCKNUT)	NA	1 1/2"
		MULLION SUPPORT (END PLATE)	5/8-11 A307 HEX HEAD BOLT W NUT AND WASHER	NA	2 1/2"
STEEL	STEEL - MIN. 10 GA	HEAD/SILL	3/8-16 A307 HEX HEAD BOLT W LOCKNUT AND WASHER	NA	1"
		JAMBS	3/8-16 A307 HEX HEAD BOLT W LOCKNUT AND WASHER	NA	1"
		MULLION SUPPORT (END PLATE)	5/8-11 A307 HEX HEAD BOLT W NUT AND WASHER	NA	1"
CONCRETE	3000 PSI MIN. COMP. STRENGTH	HEAD/SILL	3/8" Ø HILTI KWIK BOLT III EXPANSION ANCHORS	2"	4"
		JAMBS	3/8" Ø HILTI KWIK BOLT III EXPANSION ANCHORS	2"	4"
		MULLION SUPPORT (END PLATE)	5/8" Ø HILTI KWIK BOLT III EXPANSION ANCHORS	4"	9"
GROUT FILLED CMU (6", 8", 10" & 12")	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	HEAD/SILL	1/4" Ø HILTI KWIK HUS EZ SCREW ANCHOR (1 PER CELL, 1 3/8" MIN. FROM VERTICAL MORTAR JOINT)	1 5/8"	4"
		JAMBS	5/8" Ø HILTI KWIK HUS EZ SCREW ANCHOR (1 PER CELL)	3 1/4"	4"
		MULLION SUPPORT (END PLATE)	3/4" Ø HILTI HIT-HY 270 ANCHOR (1 PER CELL, 1" MIN. FROM VERTICAL MORTAR JOINT)	6 3/4"	4"



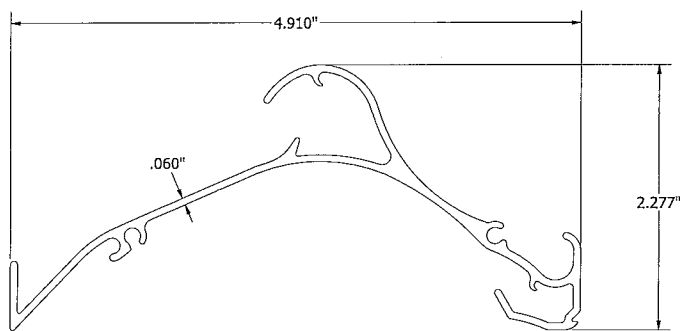
HEAD FRAME ITEM #01
RELIABLE #70-022497-00B



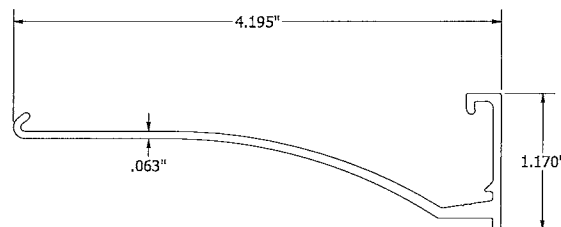
SILL FRAME ITEM #02
RELIABLE #70-022498-00B



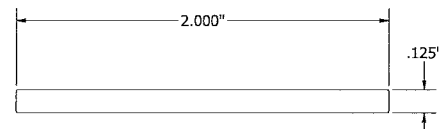
JAMB FRAME ITEM #03
RELIABLE #70-022508-00B



BLADE ITEM #04
RELIABLE #70-022496-00B

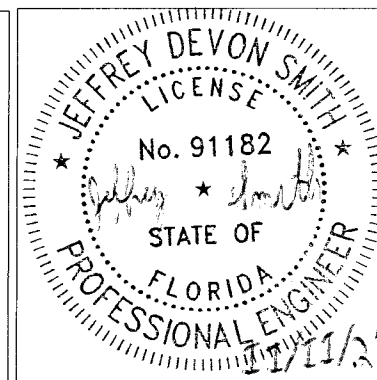


BLADE BRACE ITEM #05
RELIABLE #70-023870-00B



H.V.B.S STRAP ITEM #06
RELIABLE #85-021658-00B

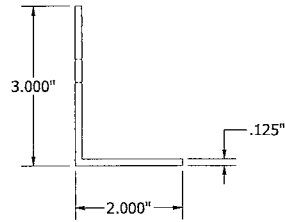
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027
By *[Signature]*
Miami-Dade Product Control



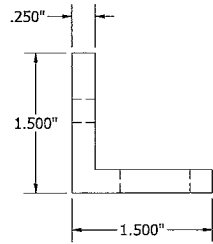
JEFFREY D. SMITH, P.E.
NO. 91182

REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/15/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT	5DDWRDC				
	TITLE	SUBSTRATE WALL FASTENER TABLE 5DDWRDC PARTS				
	SIZE	D	DWG NO	60-022270-00B	REV	E
ECN	12426	SCALE	NONE	INVENTOR	SHEET 15 OF 19	

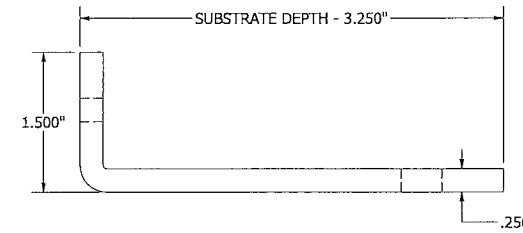
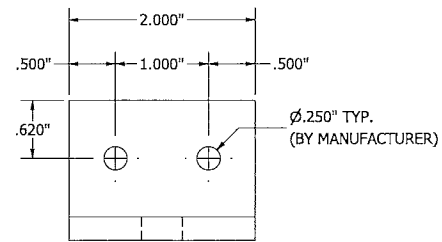




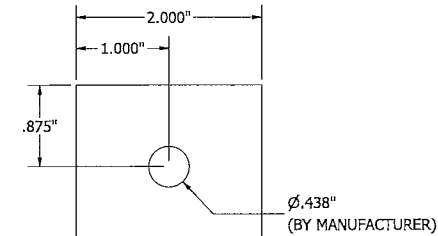
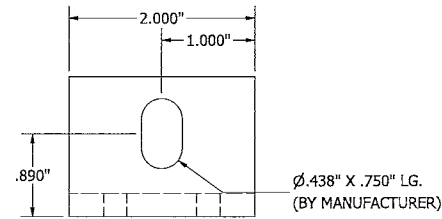
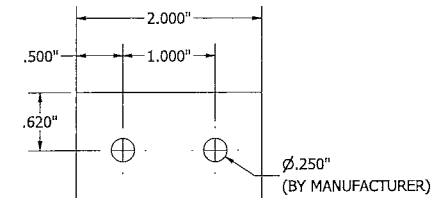
MULLION SUPPORT ANGLE ITEM#09
RELIABLE #A1139



ATTACHMENT CLIP ANGLE, 2" LG. ITEM#10
RELIABLE #85-021637-00B

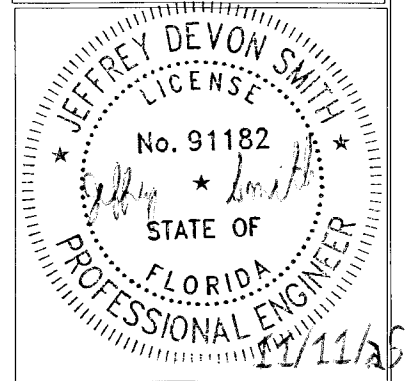


CLIP ANGLE - FORMED, 2" LG. ITEM#11
RELIABLE #N/A

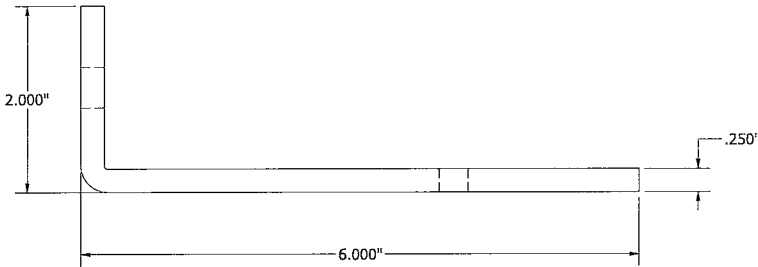


PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027

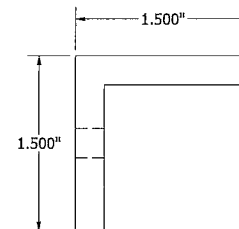
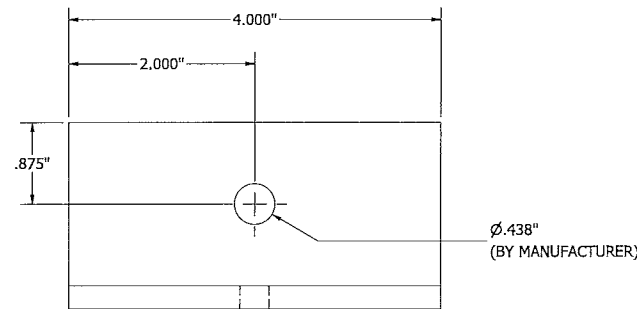
By *[Signature]*
Miami-Dade Product Control



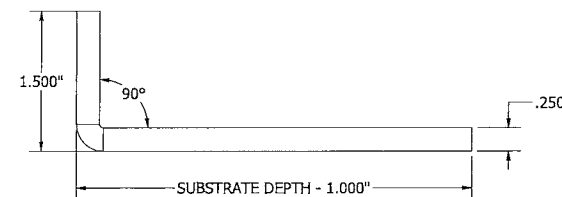
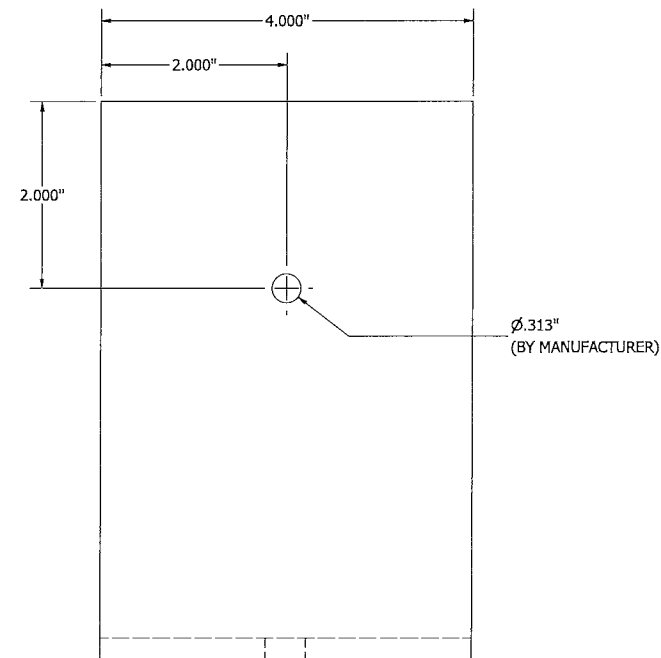
JEFFREY D. SMITH, P.E.
NO. 91182



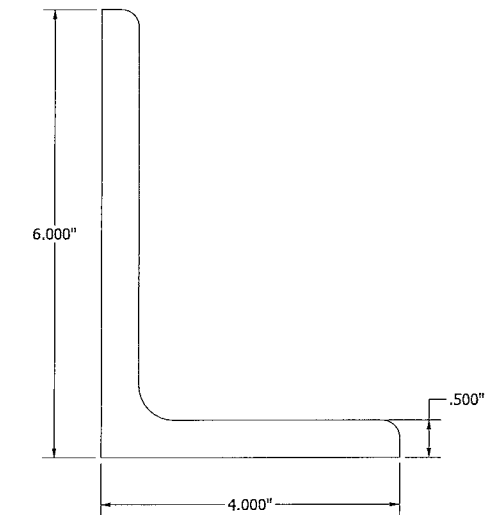
CLIP ANGLE - FORMED, 4" LG. ITEM#12
RELIABLE #N/A



ATTACHMENT ANGLE, CONT. ITEM #13
RELIABLE #85-023099-00B



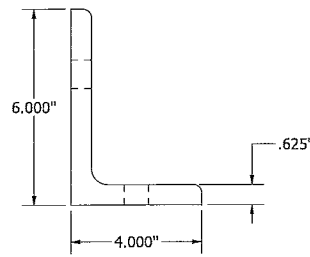
CLIP ANGLE - FORMED, CONT. ITEM #14
RELIABLE #85-023100-00B



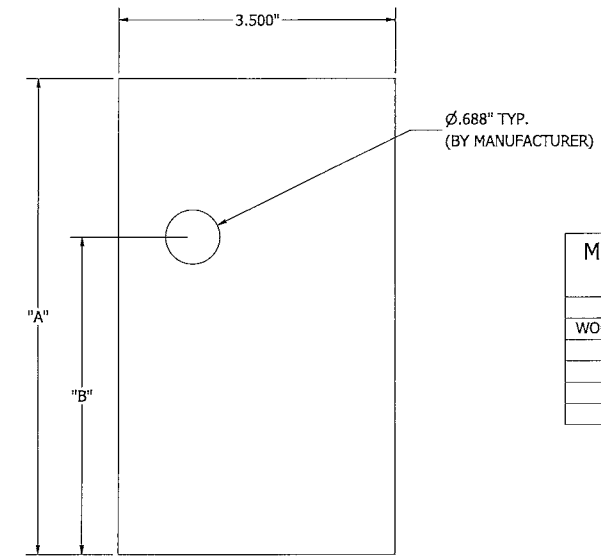
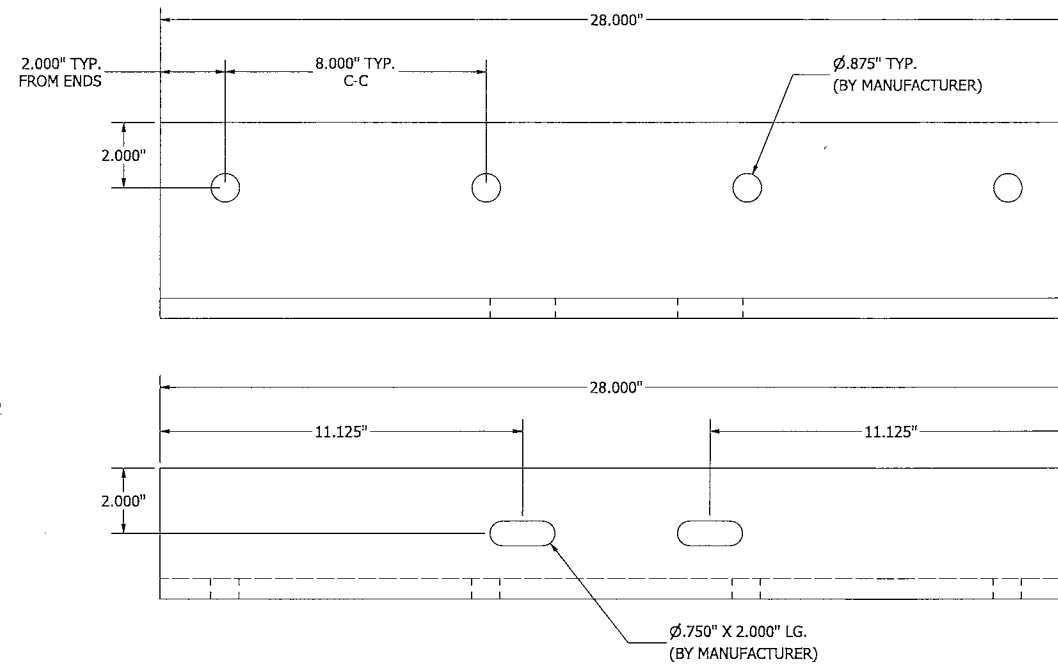
STRUCTURAL ATTACHMENT ANGLE, CONT. ITEM #15
RELIABLE #85-023122-00B

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT SDDWRDC					
	TITLE SDDWRDC - PARTS					
SIZE	DWG NO 60-022270-00B					REV E
ECN 12426	SCALE NONE	INVENTOR		SHEET 16 OF 19		



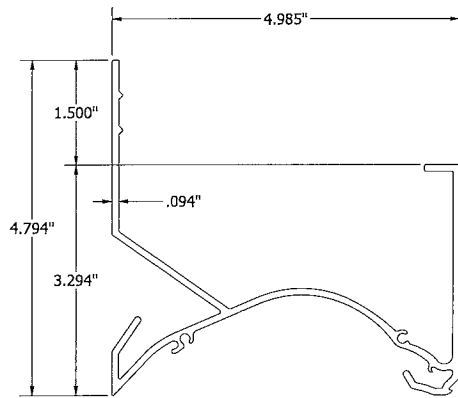


STRUCTURAL ATTACHMENT ANGLE, 28" LG. ITEM #16
RELIABLE #85-023102-00B

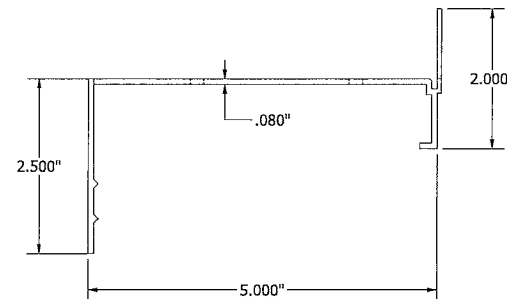


MULLION SUPPORT ATTACHMENT PLATE DIMENSION TABLE		
WALL TYPE	"A"	"B"
WOOD/STEEL/CONCRETE	3.500	1.750
6" CMU	4.000	2.000
8" CMU	6.000	4.000
10" CMU	8.000	6.000
12" CMU	10.000	8.000

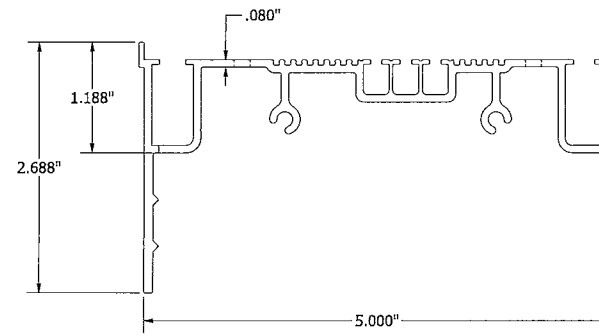
MULLION SUPPORT ATTACHMENT PLATE ITEM #17
RELIABLE #85-023103-00B



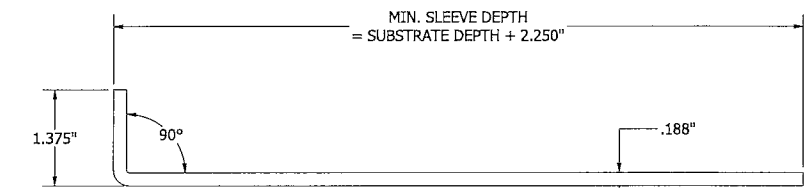
HEAD FRAME W/INTEGRAL FLANGE ITEM #24
RELIABLE #70-022499-00B



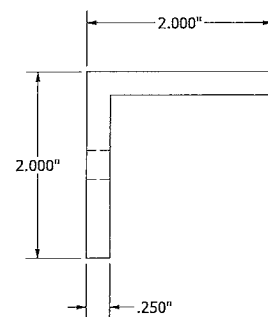
SILL FRAME W/INTEGRAL FLANGE ITEM #25
RELIABLE #70-020969-00B



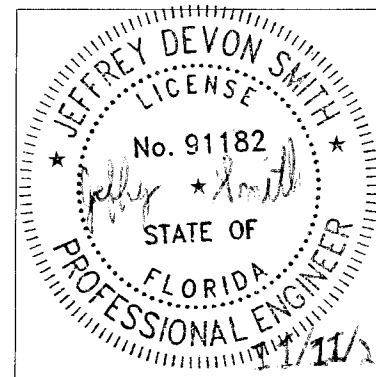
JAMB FRAME W/INTEGRAL FLANGE ITEM #26
RELIABLE #70-022509-00B



FRONT FLANGE UNIVERSAL SLEEVE ITEM #27



CONT. RETAINING ANGLE ITEM #28
RELIABLE #85-023107-00B

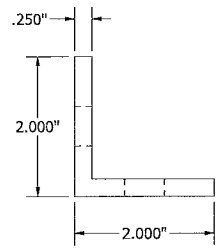


JEFFREY D. SMITH, P.E.
NO. 91182

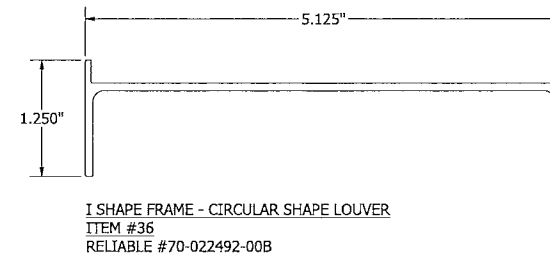
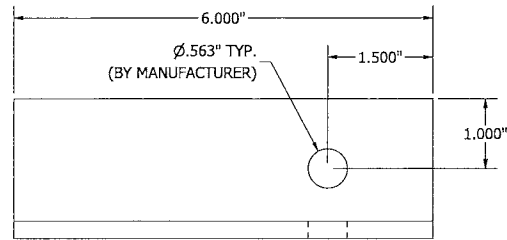
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027
By *[Signature]*
Miami-Dade Product Control

REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT: SDDWRDC					
	TITLE: SDDWRDC - PARTS					
	SIZE D	DWG NO	60-022270-00B	REV E		
ECN 12426	SCALE NONE	INVENTOR	SHEET 17 OF 19			

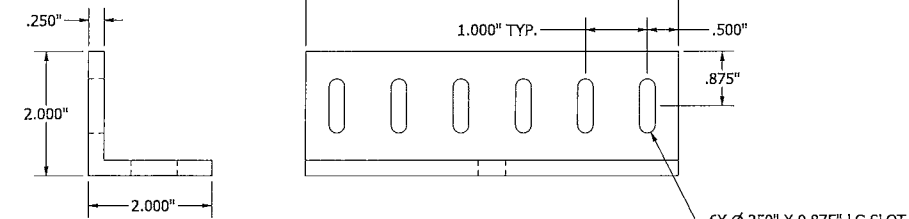
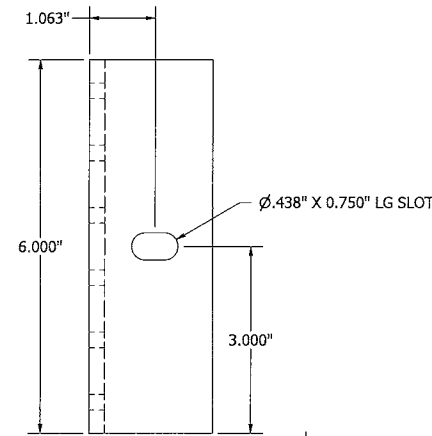
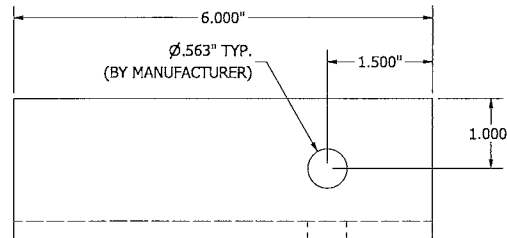
RELIABLE
ARCHITECTURAL PRODUCTS
1300 Enterprise Road,
Geneva, Alabama 36340
PROPRIETARY AND
CONFIDENTIAL



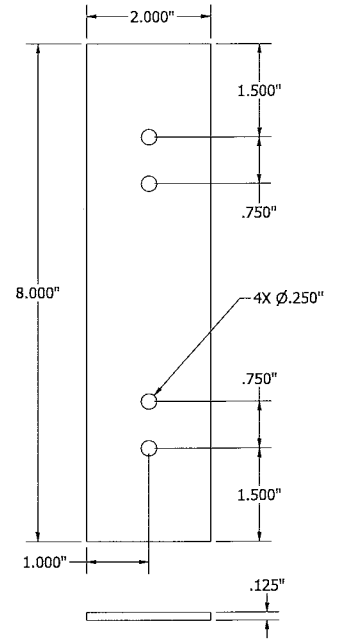
UNIVERSAL SLEEVE - MULLION SUPPORT ATTACHMENT ANGLE ITEM #29
RELIABLE #85-023108-00B



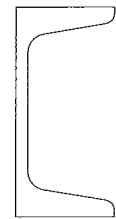
I SHAPE FRAME - CIRCULAR SHAPE LOUVER
ITEM #36
RELIABLE #70-022492-00B



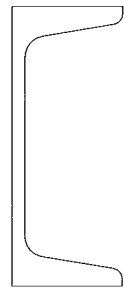
6" ATTACHMENT ANGLE - CIRCULAR SHAPE LOUVER
ITEM #37
RELIABLE # 85-023293-00B



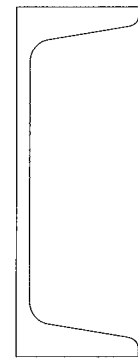
SPLICE PLATE - CIRCULAR SHAPE LOUVER
ITEM #41
RELIABLE # 85-023281-00B



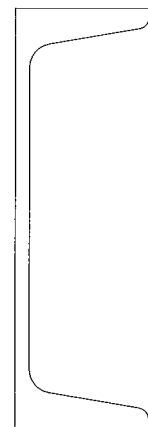
C3X4.1 ITEM #32



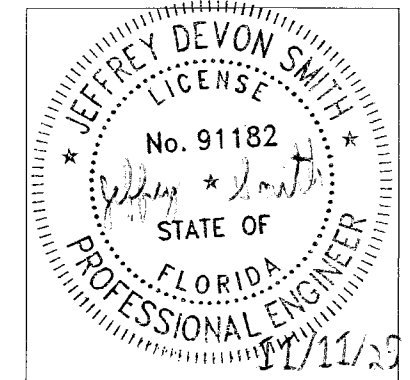
C4X5.4 ITEM #33



C5X6.7 ITEM #34



C6X8.7 ITEM #35

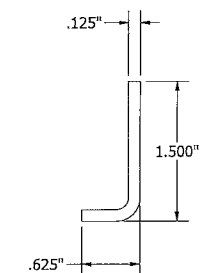


JEFFREY D. SMITH, P.E.
NO. 91182

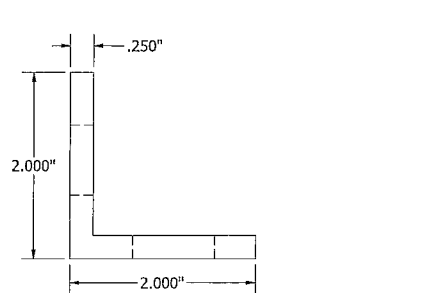
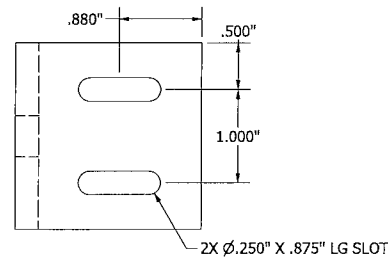
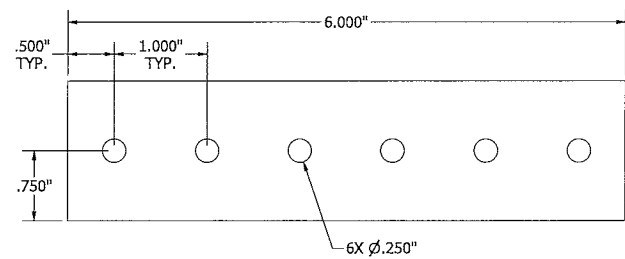
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04

Expiration Date 02/23/2027

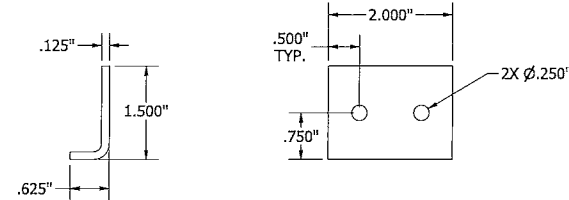
By *[Signature]*
Miami-Dade Product Control



6" REINFORCING ANGLE - CIRCULAR SHAPE LOUVER
ITEM #38
RELIABLE # 85-023280-00B



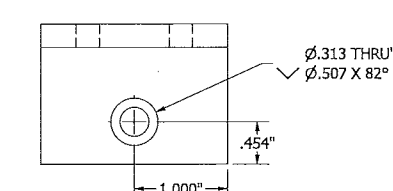
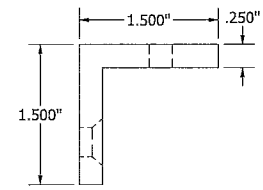
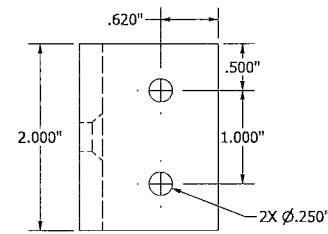
2" ATTACHMENT ANGLE - CIRCULAR SHAPE LOUVER
ITEM #39
RELIABLE # 85-022012-00B



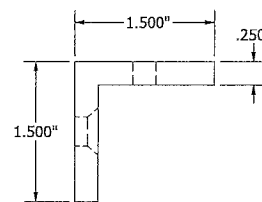
2" REINFORCING ANGLE - CIRCULAR SHAPE LOUVER
ITEM #40
RELIABLE # 85-023279-00B

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
REV	DESCRIPTION	BY	CHK	APVD	APVD	DATE
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT	SDDWRDC				
	TITLE	SDDWRDC - PARTS				
	SIZE	DWG NO	60-022270-00B			
	D	REV	E			
EON	12426	SCALE	NONE	INVENTOR	SHEET 18 OF 19	

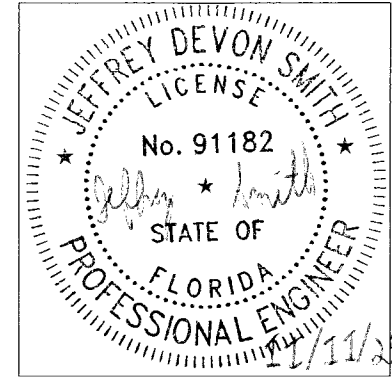




ATTACHMENT ANGLE, 2" LG., REVERSE DIRECTION ITEM #42
RELIABLE # 85-023294-00B

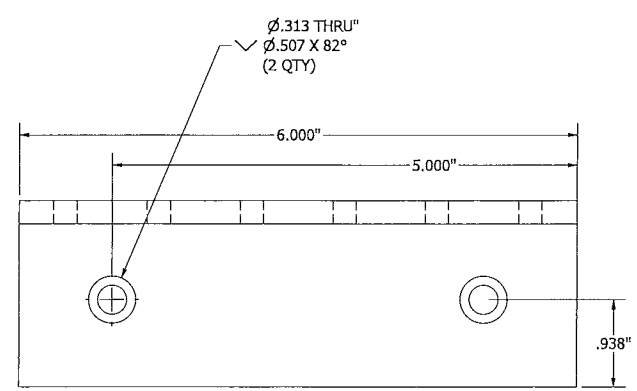
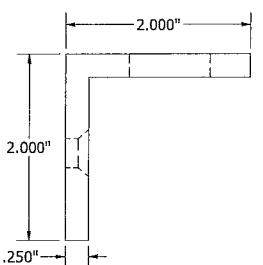
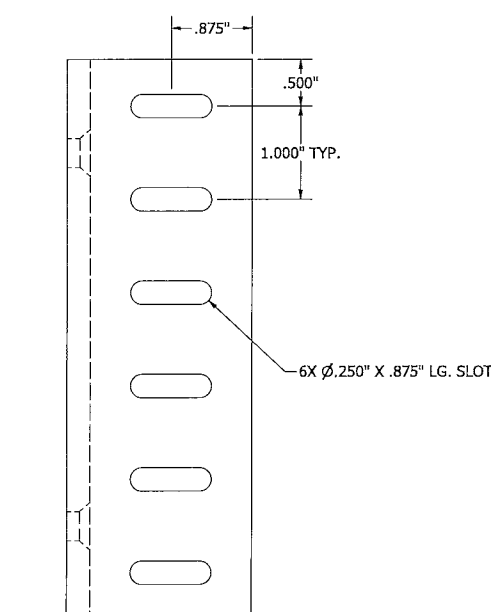


ATTACHMENT ANGLE, CONT. REVERSE DIRECTION ITEM #43
RELIABLE # 85-023295-00B

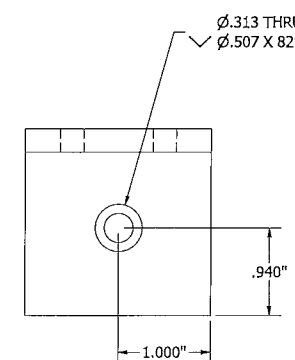
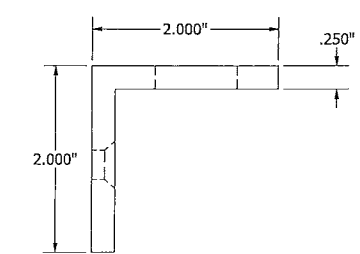
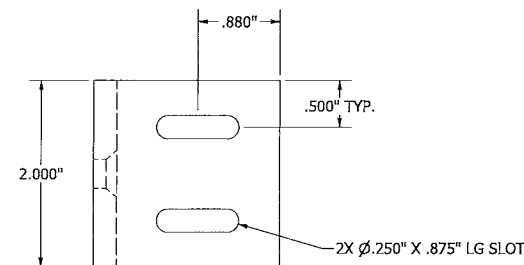


JEFFREY D. SMITH, P.E.
NO. 91182

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 25-1229.04
Expiration Date 02/23/2027
By *[Signature]*
Miami-Dade Product Control



6" ATTACHMENT ANGLE, REVERSE DIRECTION - CIRCULAR SHAPE LOUVER
ITEM #44
RELIABLE # 85-023296-00B



2" ATTACHMENT ANGLE, REVERSE DIRECTION - CIRCULAR SHAPE LOUVER
ITEM #45
RELIABLE # 85-023297-00B

E	ADDED DETAILS OF CIRCULAR SHAPE LVR, REVERSE ANGLE, UNI. SLEEVE THK.	RVT	JDS	-	JDS	03/02/23
D	REV'D ENGINEER OF RECORD, UPDATED INFO.	SSK/NS	JDS	WRT	MMM	09/10/20
AUTHOR	DRP	5/16/12				
CHECKED	DJR	8/2/12				
APPROVED	DJR	8/2/12				
MATERIAL	PRODUCT SDDWRDC					
	TITLE SDDWRDC - PARTS					
SIZE	D	DWG NO	60-022270-00B		REV	E
ECN	12426	SCALE	NONE	INVENTOR	SHEET 19 OF 19	

RELIABLE
ARCHITECTURAL PRODUCTS
1300 Enterprise Road,
Geneva, Alabama 36340
PROPRIETARY AND
CONFIDENTIAL