



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

**[www.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)**

**United States Aluminum Corporation  
720 Cel-River Road  
Rock Hill, SC 29730**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: Series "IG-500 Storm Front" Aluminum Storefront System – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **USA-2401**, titled "Series IG500 Storm Front Storefront System" Sheets 1 through 9 of 9, dated 06/26/02 with revision A2 dated 01/14/10, prepared by manufacturer, signed and sealed by Cynthia J. Ebert, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**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 and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **revises and renews NOA # 02-1011.04** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 09-0224.08  
Expiration Date: March 17, 2015  
Approval Date: March 17, 2010  
Page 1**

**United States Aluminum Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **USA-2401**, titled "Series IG500 Storm Front Storefront System" Sheets 1 through 9 of 9, dated 06/26/02 with revision A2 dated 01/14/10, prepared by manufacturer, signed and sealed by Cynthia J. Ebert, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per TAS 202-94  
3) Water Resistance Test, per TAS 202-94  
4) Large Missile Impact Test, TAS PA 201-94  
5) Cyclic Loading Test, per FBC TAS 203-94  
along with installation diagram of aluminum storefront system marked-up by Architectural Testing, Inc., Test Reports No. **ATI-03-31371.01**, dated 09-12/02, signed and sealed by Steven M. Urich, P.E.  
*(Submitted under previous NOA#02-1011.04)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Larson Engineering, Inc., dated 11/03/09, signed and sealed by Cynthia J. Ebert, P.E.  
**Complies with ASTM E1300-98/02**

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **07-1116.11** issued to Saf-Glas, LLC for their "SAF-GLAS Polycarbonate Laminate", dated 12/27/07, expiring on 12/16/12.

**F. STATEMENTS**

1. Statement letter of conformance, dated November 2, 2009, signed and sealed by Cynthia J. Ebert, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **02-1011.04**, issued to United States Aluminum Corporation. for their Series "IG-500" Aluminum Storefront System – L.M.I., approved on 03/13/03 and expiring on 03/13/08.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. ~~09-0224.08~~  
Expiration Date: March 17, 2015  
Approval Date: March 17, 2010

# TEST REQUIREMENTS

## ALLOWABLE AIR INFILTRATION:

(ASTM E283-91)  
 1.0 CFM/ft<sup>2</sup> @ 6.24 psf  
 (STOREFRONT-Dade County)  
 0.06 CFM/ft<sup>2</sup> @ 6.24 psf  
 (STOREFRONT-Outside Dade Cty)

## ALLOWABLE WATER INFILTRATION:

(ASTM E331-93) STATIC PRESSURE  
 NO UNCONTROLLED WATER @ 10 psf

## STRUCTURAL PERFORMANCE:

(ASTM E330-96)  
 DESIGN = +/- 65 psf  
 ALLOWABLE DEFLECTION = L/180

## FORCED ENTRY:

## IMPACT TEST:

(FBC PA-201-94)  
 LARGE MISSILE  
 SMALL MISSILE  
 (not required if pass large missile test)

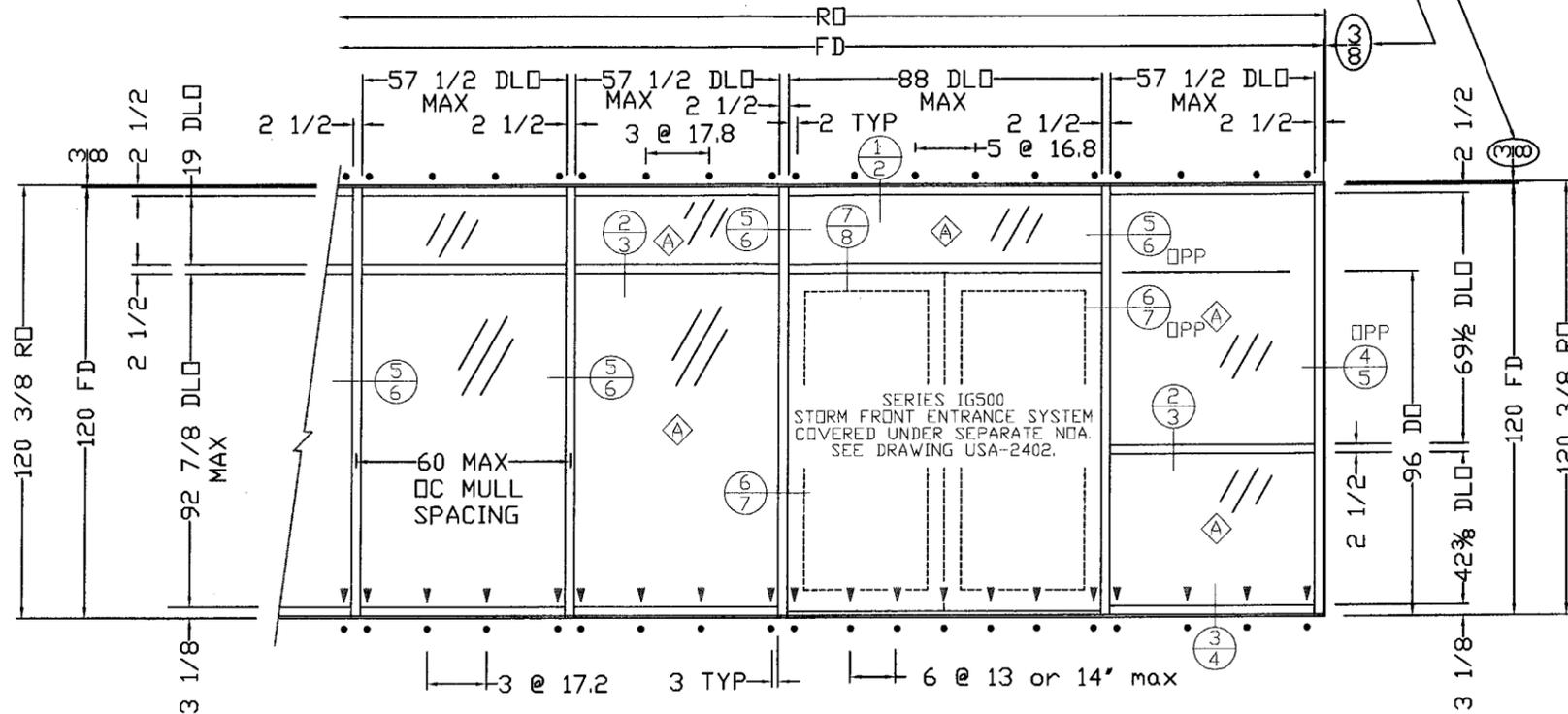
## CYCLICAL LOADING TEST:

(FBC PA-203-94)  
 4,500 CYCLES (+)  
 4,500 CYCLES (-)

# BILL OF MATERIALS

IG504	VERTICAL FILLER
IG515	VERTICAL JAMB
IG505	SUBSILL
IG570	SILL
IG572	GLASS STOP
IG563	HORIZONTAL HEAD
IG562	SUBSILL END DAM
IG552	STEEL REINFORCING
EC801	1/2" Ø GR 5 POWER-BOLT (HEAD @ CONC)
SS802	3/8" Ø GR 5 POWER-BOLT (SILL/JAMB @ CONC)
	3/8" DIA. X 4' GR 5 LAG AT JAMB
	1/2" Ø GRADE 5 HH (HEAD @ STEEL)
	1/2" X 6" GRADE 5 HH LAG (HEAD/JAMB @ WOOD)
	3/8-16 Ø GRADE 5 HH (SILL/JAMB @ STEEL)
	3/8" X 4' GRADE 5 HH LAG (SILL @ WOOD)
ST266	#12x1' HWH DRILL FLEX
ST268	#12 X 3/4' HWH SMS
CP801	VERTICAL CLOSURE PLATES
WD801	SHALLOW WATER DEFLECTOR
WD802	DEEP WATER DEFLECTOR
WD803	JAMB WATER DEFLECTOR
NP225	EXTERIOR GASKET
SP250	INTERIOR SPACER GASKET
SB916	SETTING BLOCK

HIGH VELOCITY HURRICANE ZONE ONLY



## TYPICAL ELEVATION

NOTE: ALL DIMENSIONS ARE INCHES" (A2)

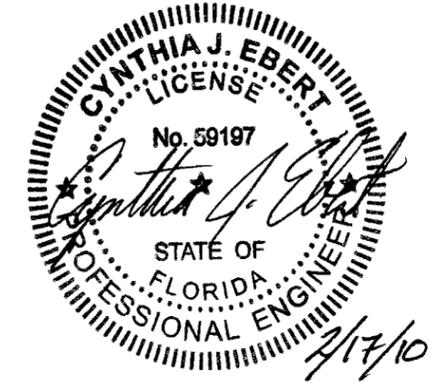
DESIGN PRESSURE RATING		IMPACT RATING	
POSITIVE	+65 PSF	+65 PSF	SMALL MISSILE
NEGATIVE	-65 PSF	-65 PSF	OR LARGE MISSILE IMPACT

SYMBOL KEY	
SYMBOL	DESCRIPTION
◊	1/4 HS + .070 SAF GLAS + 1/4 HS SEE "Saf-Glas LLC" NOA #07-1116.11 (12.27.07 Expires 12.16.12)
▼	ST268 B #12 X 3/4" @ 2" EA END & 16" MAX OC
●	PERIMETER ANCHORS INTO SUBSTRATE ANCHOR NOTES: EACH ● EQUALS = 1. @ .25" STEEL: (1) 3/8" DIA. GRADE 5 BOLT W/ 3/16" EDGE DISANCE. 2. @ 3000 PSI CONCRETE: (1) 3/8" DIA RAWL POWER BOLTS W/2 1/2" EMBED X 4 1/2" EDGE DISTANCE. 3. WOOD: (2) 3/8" DIA GRADE 5 LAG BOLTS W/4" EMBED, 2" APART. W/ 1 3/4" EDGE DISTANCE

ELEVATION CONFIGURATION SHOWN IS NOT INDICATIVE OF ALL FIELD APPLICATIONS.  
 THIS ELEVATION REPRESENTS THE MAXIMUM VERTICAL MULLION SPACING  
 AND FRAME HEIGHT FOR NOA THAT IS BEING REQUESTED.

SUBSIDIARY OF INTERNATIONAL ALUMINUM CORPORATION

SYM	REVISION	DATE	BY
A1	REVISED NOTES PER BCCO AND REVISED ANCHOR NOTES PER LARSON CALCS	11.24.09	DCV
A2	REVISED NOTES PER BCCO	01.14.10	DCV



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**Larson Engineering, Inc.**  
 5757 Phantom Drive, Suite 200  
 St. Louis, MO 63042-2429  
 314.731.4710 Fax: 314.731.4712  
 www.larsonengr.com  
 © 2009 LEI  
 Project Number: 53080332.000  
 Florida COA #: 00009803  
 Cynthia J. Ebert  
 Registration #: 59197

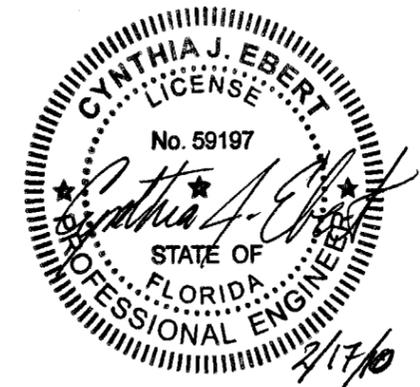
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PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 09-0224.08  
 Expiration Date MARCH 17, 2015  
 By *Maurice Pera*  
 Metro-Dade Product Control  
 Division

**United States Aluminum**  
 720 Cel-River Road  
 Rock Hill, SC 29730  
 200 Singleton Drive  
 Waxahachie, TX 75165  
 Phone 1.800.627.6440  
 Fax 1.800.841.8722  
 Website www.usalum.com

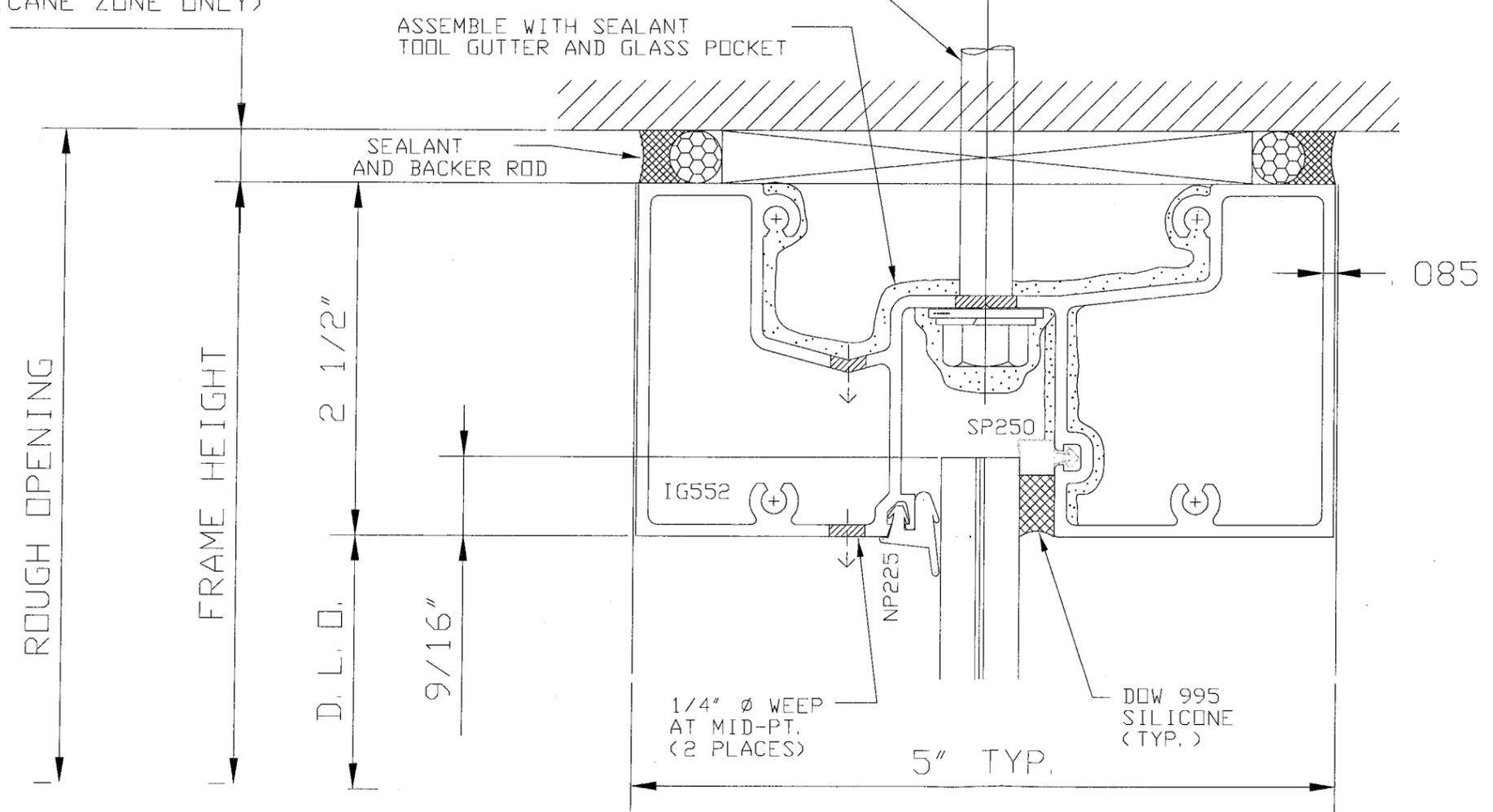
DRAWN BY G.HALL	SYSTEM SERIES IG500 STORM FRONT STOREFRONT SYSTEM
DATE 06/26/02	DESCRIPTION SUBMITTAL DRAWINGS
SCALE NTS	DRAWING NO. USA-2401
	SHEET 1 OF 9

SYM	REVISION	DATE	BY
A1	REVISED NOTES PER BCCO AND REVISED ANCHOR NOTES PER LARSON CALCS	11.24.09	DCW
A2	REVISED NOTES PER BCCO	01.14.10	DCW



- (A1) ANCHOR NOTES: EACH ● EQUALS =
1. @ .25" STEEL: (1) 3/8" DIA. GRADE 5 BOLT 1/16" EDGE DISANCE.
  2. @ 3000 PSI CONCRETE: (1) 3/8" DIA RAWL POWER BOLTS W/2 1/2" EMBED X 4 1/2" DIA EDGE DISTANCE.
  3. WOOD: (2) 3/8" DIA GRADE 5 LAG BOLTS W/4" EMBED, 2" APART 1 3/4" EDGE DISTANCE.

3/8" MAX  
(HIGH VELOCITY  
HURRICANE ZONE ONLY)



**1** HEAD DETAIL  
6063 T5  
NOTE: ALL DIMENSIONS IN INCHES"

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(A1)

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St. Louis, MO 63042-2429  
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www.larsonengr.com

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Project Number: 53090332.000  
Florida COA #: 00009803  
Cynthia J. Ebert  
Registration #: 59197

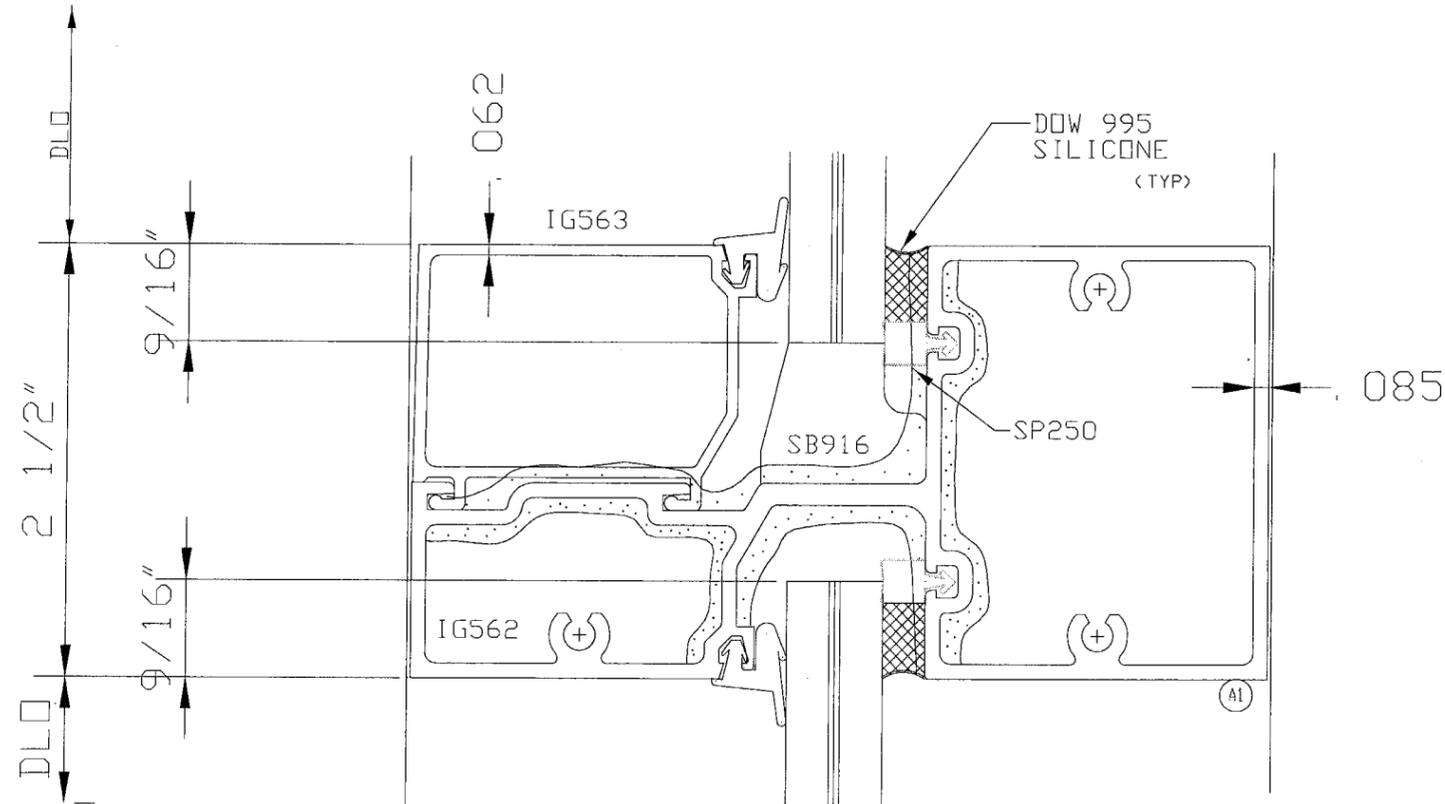
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Building Code  
Acceptance No. 09-0224.08  
Expiration Date 11/17, 2015  
By *Manuel Perez*  
Metro Dade Product Control  
Division

United States Aluminum  
720 Cel-River Road  
Rock Hill, SC 29730  
200 Singleton Drive  
Waxahachie, TX 75165

DRAWN BY G. HALL	SYSTEM SERIES IG500
DATE 06/26/02	STORM FRONT STOREFRONT SYSTEM
APPVD BY	DESCRIPTION SUBMITTAL DRAWINGS
SCALE AS SHOWN	DRAWING NO. USA-2401
	SHEET 2 OF 9

SYM	REVISION	DATE	BY
(A1)	REVISED NOTES PER BCCO AND REVISED ANCHOR NOTES PER LARSON CALCS	11.24.09	DCW
(A2)	REVISED NOTES PER BCCO	01.14.10	DCW

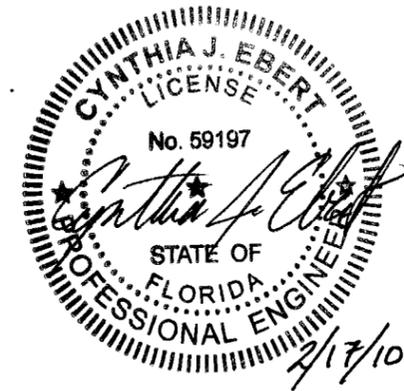


2

INTERMEDIATE HORIZONTAL DETAIL

6063 T5

NOTE: ALL DIMENSIONS IN INCHES"



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 Cynthia J. Ebert  
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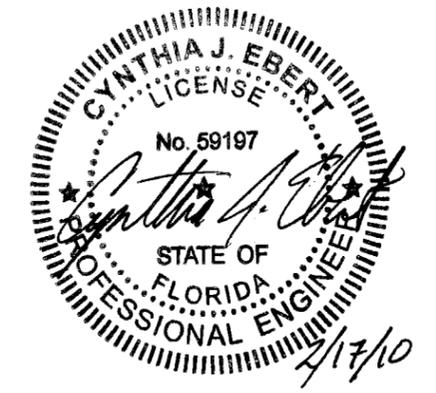
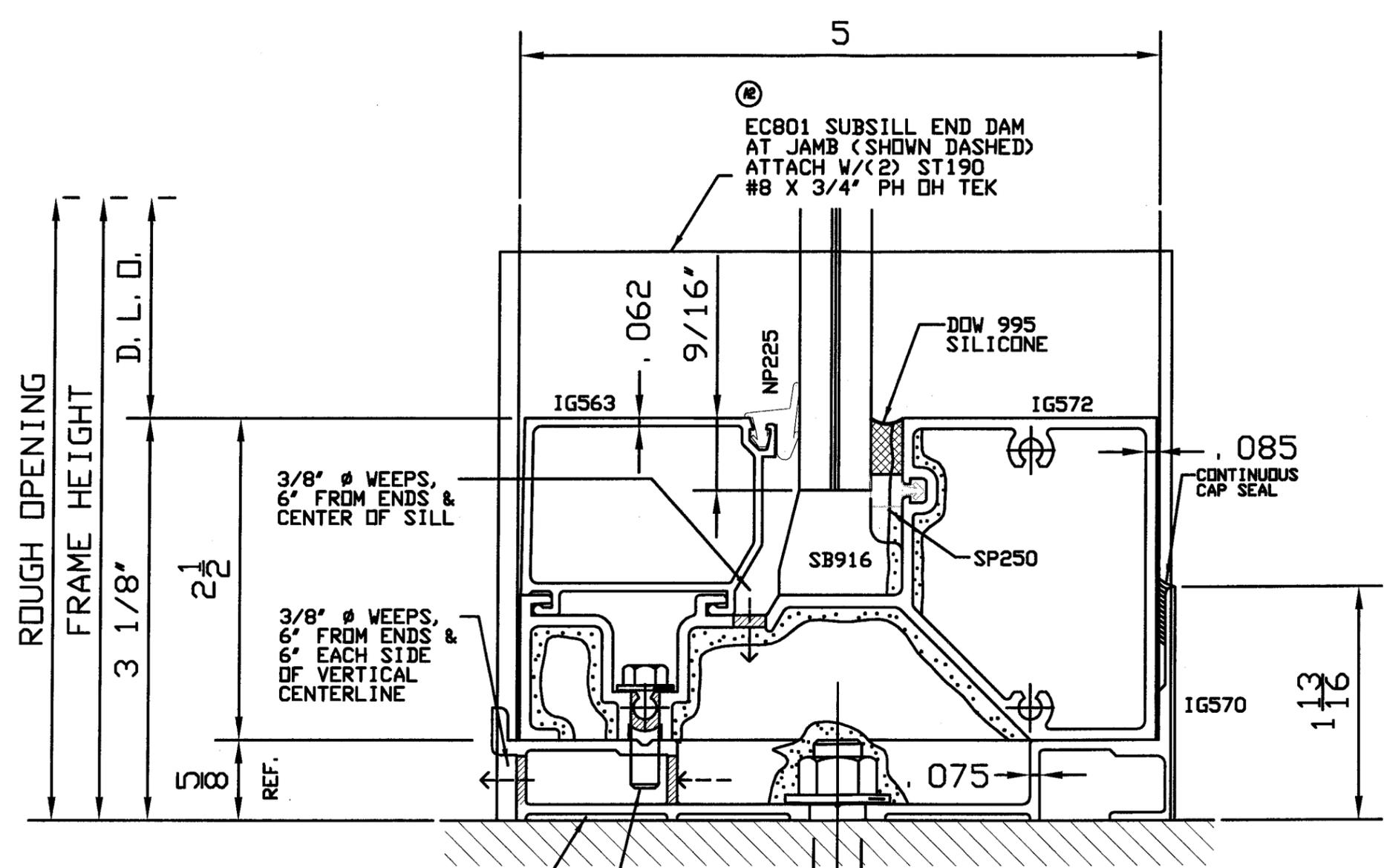
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 Building Code  
 Acceptance No. 09-0274.08  
 Expiration Date MARCH 17, 2015  
 By Warren Jones  
 Metro-Dade Product Control  
 Division

United States Aluminum  
 720 Cel-River Road  
 Rock Hill, SC 29730  
 200 Singleton Drive  
 Waxahachie, TX 75165

DRAWN BY	SYSTEM	
G. HALL	SERIES IG500	
DATE	STORM FRONT	
06/26/02	STOREFRONT SYSTEM	
APPVD BY	DESCRIPTION	
	SUBMITTAL DRAWINGS	
SCALE	DRAWING NO.	SHEET
AS SHOWN	USA-2401	3 OF 9

SYM	REVISION	DATE	BY
(A1)	REVISED NOTES PER BCCI AND REVISED ANCHOR NOTES PER LARSON CALCS	11.24.09	BCV
(A2)	REVISED NOTES PER BCCI	01.14.10	BCV



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Project Number: 53090332.000  
 Florida COA #: 00009803  
 Cynthia J. Ebert  
 Registration #: 59197

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PRODUCT REVIEWED  
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 Acceptance No. 09-0224.08  
 Expiration Date MARCH 17, 2015  
 By Manuel Perez  
 Release Date Product Control Division

**United States Aluminum**  
 720 Cal-River Road  
 Rock Hill, SC 29730  
 200 Singleton Drive  
 Waxahachie, TX 75165

DRAWN BY G. HALL	SYSTEM SERIES IG500
DATE 06/26/02	STORM FRONT STOREFRONT SYSTEM
APPROVED BY	DESCRIPTION SUBMITTAL DRAWINGS
SCALE AS SHOWN	DRAWING NO. USA-2401
	SHEET 4 OF 9

SET IG570 SUBSILL IN FULL BED OF SEALANT

ST268 #12 X 3/4" HWH SMS TYPE B, 2" FROM EACH END OF SILL & EQUALLY SPACED @ 16" O.C. MAX

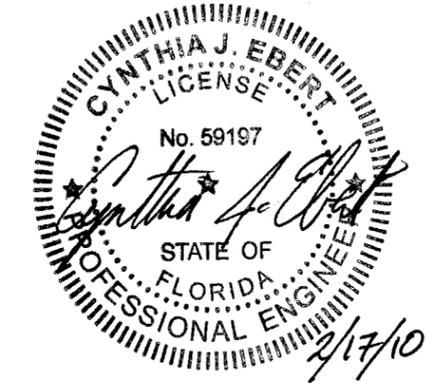
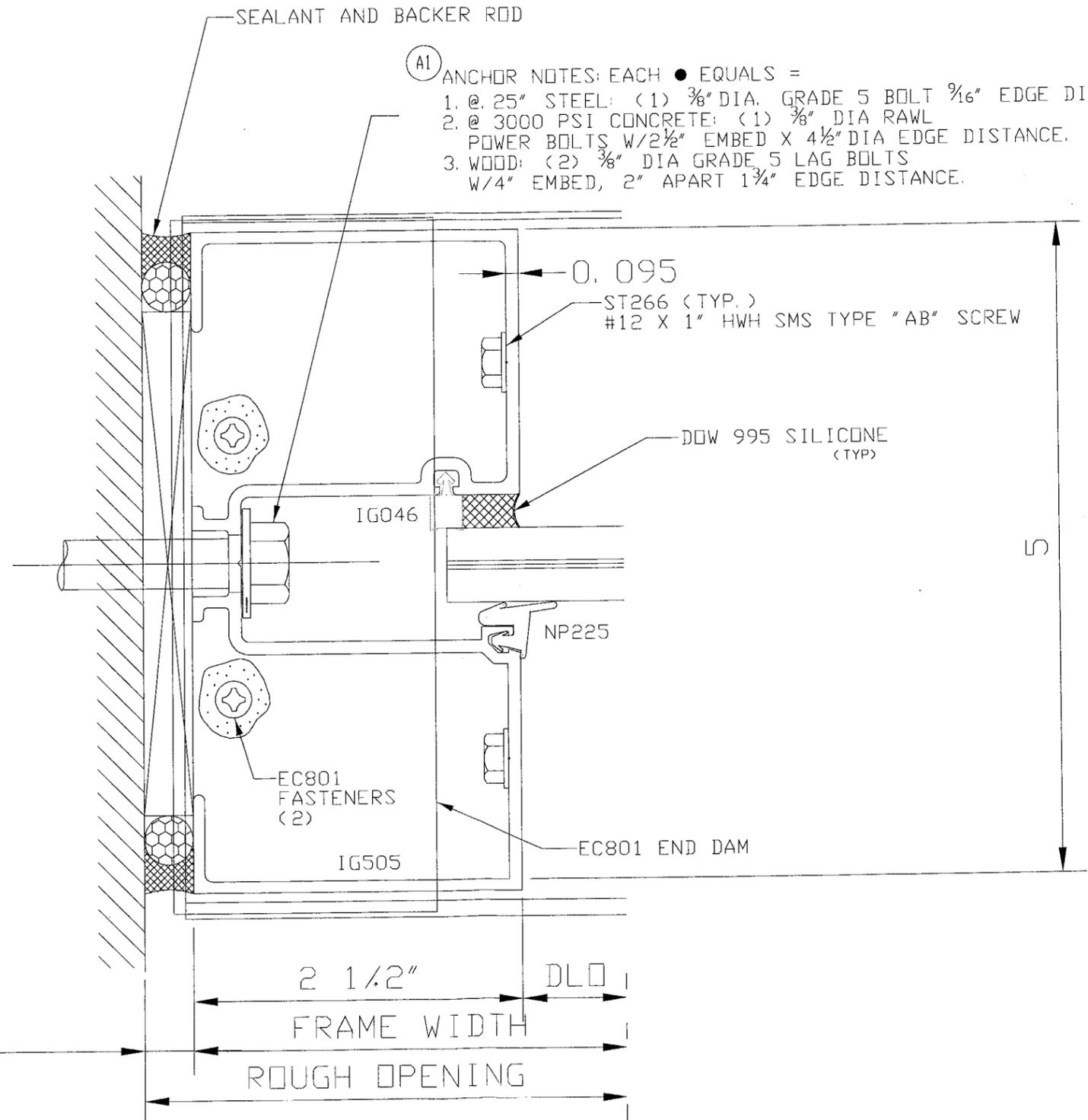
- (A1) ANCHOR NOTES: EACH ● EQUALS =
- 25" STEEL: (1) 3/8" DIA. GRADE 5 BOLT 1/6" EDGE DISANCE.
  - 3000 PSI CONCRETE: (1) 3/8" DIA RAWL POWER BOLTS W/2 1/2" EMBED X 4 1/2" DIA EDGE DISTANCE.
  - WOOD: (2) 3/8" DIA GRADE 5 LAG BOLTS W/4" EMBED, 2" APART 1 3/4" EDGE DISTANCE.

**3 SILL DETAIL**  
6063 T5

NOTE: ALL DIMENSIONS IN INCHES'

SYM	REVISION	DATE	BY
A1	REVISED NOTES PER DCCO AND REVISED ANCHOR NOTES PER LARSON CALCS	11.24.09	DCV
A2	REVISED NOTES PER DCCO	01.14.10	DCV

- (A1) ANCHOR NOTES: EACH ● EQUALS =
- @ .25" STEEL: (1) 3/8" DIA. GRADE 5 BOLT 1/16" EDGE DISANCE.
  - @ 3000 PSI CONCRETE: (1) 3/8" DIA RAWL POWER BOLTS W/2 1/2" EMBED X 4 1/2" DIA EDGE DISTANCE.
  - WOOD: (2) 3/8" DIA GRADE 5 LAG BOLTS W/4" EMBED, 2" APART 1 1/4" EDGE DISTANCE.



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 Florida COA #: 00009803  
 Cynthia J. Ebert  
 Registration #: 59197

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**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 09-0224.08  
 Expiration Date MARCH 17, 2015  
 By *Manuel Perez*  
 Miami Dade Product Control Division

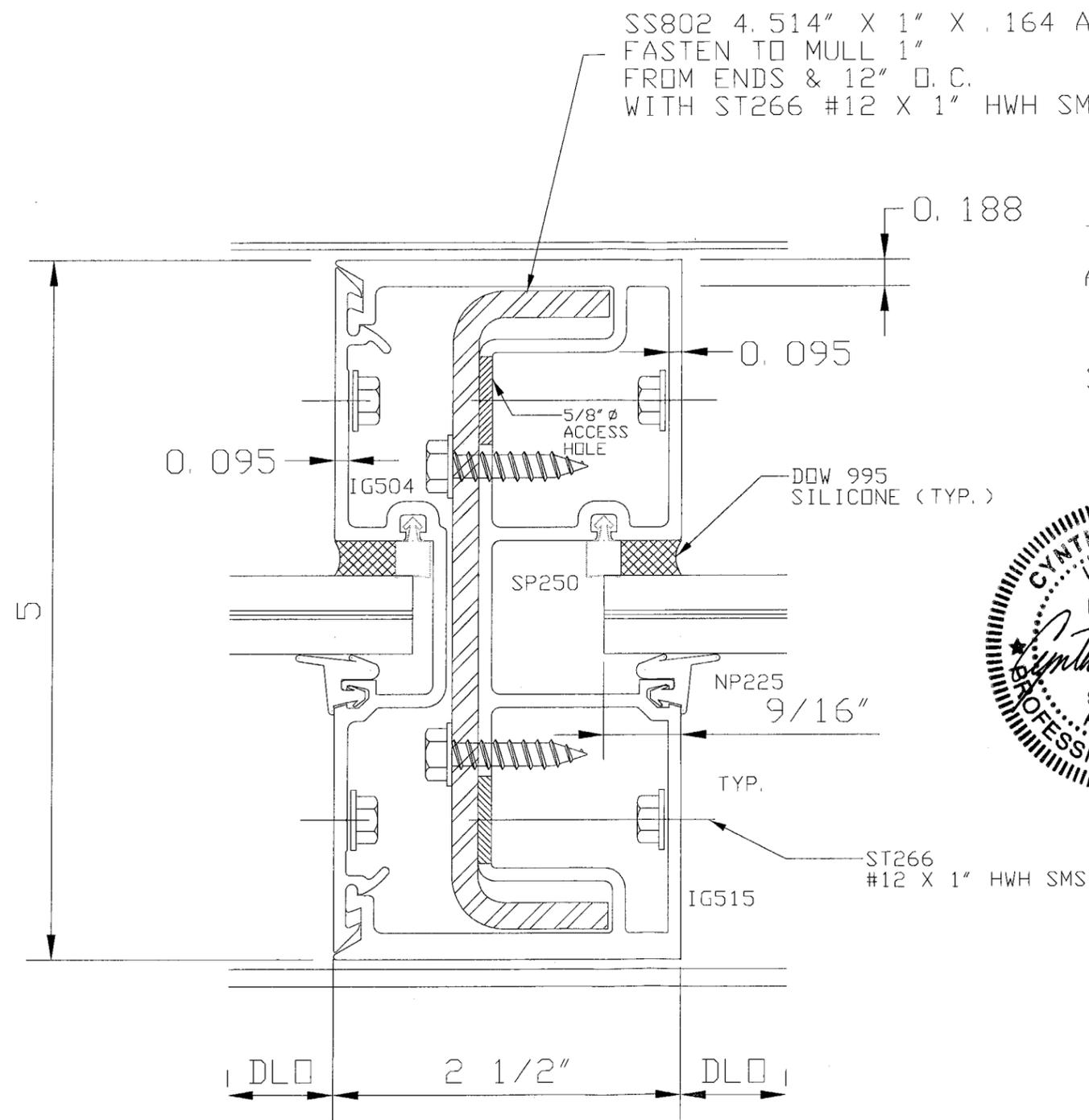
**United States Aluminum**  
 720 Cel-River Road  
 Rock Hill, SC 29730  
 200 Singleton Drive  
 Waxahachie, TX 75165

**4** VERTICAL MULLION / JAMB DETAIL

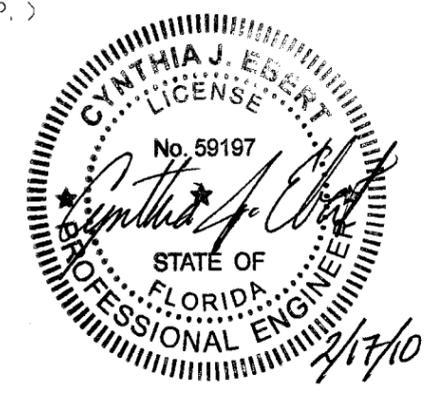
6063 T5  
 NOTE: ALL DIMENSIONS IN INCHES"

DRAWN BY G. HALL	SYSTEM SERIES IG500 STORM FRONT
DATE 06/26/02	DESCRIPTION STOREFRONT SYSTEM
APPVD BY	DESCRIPTION SUBMITTAL DRAWINGS
SCALE AS SHOWN	DRAWING NO. USA-2401
	SHEET 5 OF 9

SYM	REVISION	DATE	BY
(A1)	REVISED NOTES PER BCCO AND REVISED ANCHOR NOTES PER LARSON CALCS	11.24.09	DCV
(A2)	REVISED NOTES PER BCCO	01.14.10	DCV



(A2) MULL ASSEMBLY PROPERTIES:  
TOTAL IN TERMS OF ALUMINUM:  $I \times a_{lum} = 14.758 \text{ IN}^4$   
 $S \times a_{lum} = 3.139 \text{ IN}^3$   
 $S \times a_{steel} = 1.050 \text{ IN}^3$



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Florida COA #: 00009803  
Cynthia J. Ebert  
Registration #: 59197

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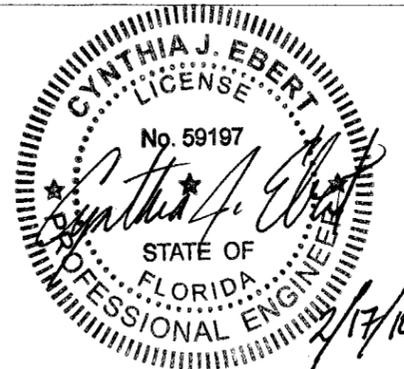
**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 09-0224.08  
Expiration Date MARCH 17, 2015  
By Manuel...  
Miami Dade Product Control Division

United States Aluminum  
720 Cel River Road  
Rock Hill, SC 29730  
200 Singleton Drive  
Waxahachie, TX 75165

**5** VERTICAL MULLION DETAIL  
6063 T5  
NOTE: ALL DIMENSIONS IN INCHES"

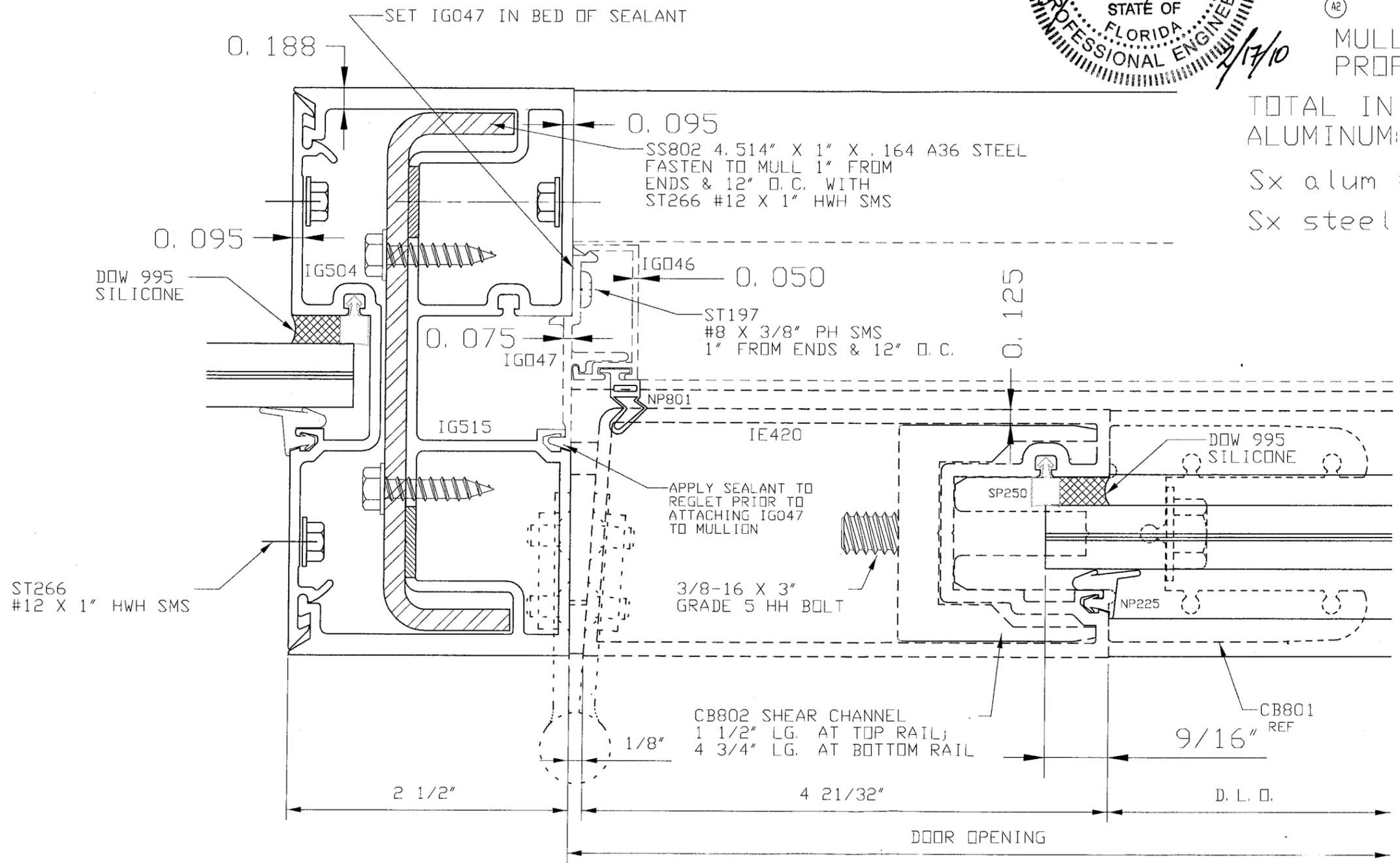
DRAWN BY G. HALL	SYSTEM SERIES IG500 STORM FRONT STOREFRONT SYSTEM
DATE 06/26/02	
APPVD BY	DESCRIPTION SUBMITTAL DRAWINGS
SCALE AS SHOWN	DRAWING NO. USA-2401
	SHEET 6 OF 9

SYM	REVISION	DATE	BY
A1	REVISED NOTES PER BCCD AND REVISED ANCHOR NOTES PER LARSON CALCS	11.25.09	DCW
A2	REVISED NOTES PER BCCD	01.14.10	DCW



A2 MULL ASSEMBLY PROPERTIES:

TOTAL IN TERMS OF ALUMINUM:  $I_x \text{ alum} = 14.758 \text{ IN}^4$   
 $S_x \text{ alum} = 3.139 \text{ IN}$   
 $S_x \text{ steel} = 1.050 \text{ IN}$



**6** VERTICAL MULLION @ DOOR DETAIL  
 REF ONLY SEE DOOR SEPARATE NOA  
 6063 T5 NOTE: ALL DIMENSIONS IN INCHES"

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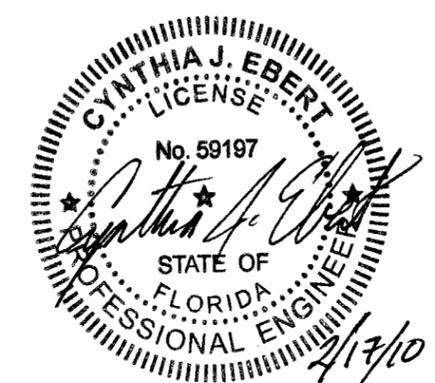
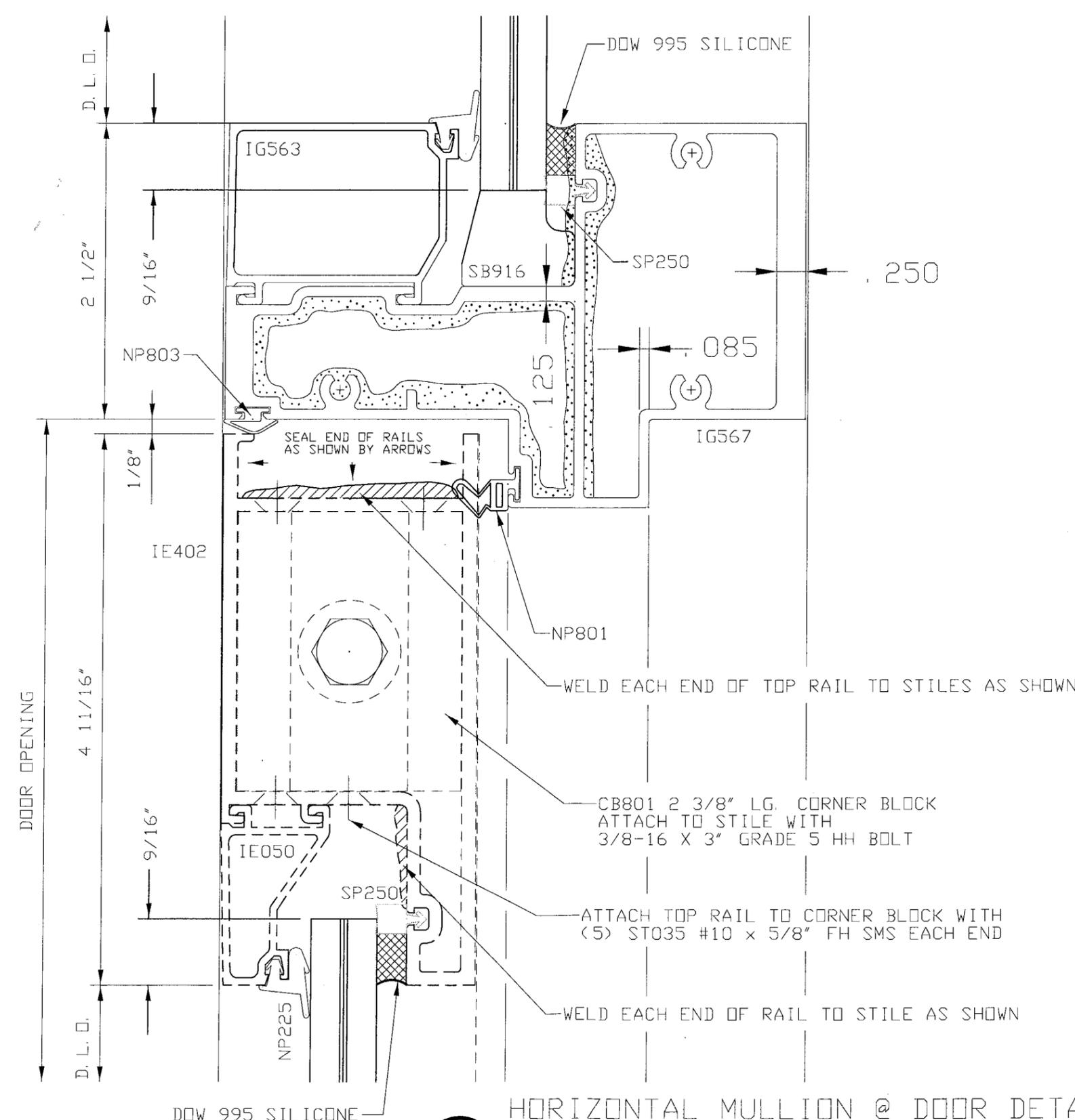
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 By *Maureen Pera*  
 Metro/Dade Product Control  
 Division

United States Aluminum  
 720 Cel-River Road  
 Rock Hill, SC 29730  
 200 Singleton Drive  
 Waxahachie, TX 75165

DRAWN BY G. HALL	SYSTEM SERIES IG500 STORM FRONT ENTRANCE SYSTEM
DATE 06/26/02	DESCRIPTION SUBMITTAL DRAWINGS
SCALE AS SHOWN	DRAWING NO. USA-2401
	SHEET 7 OF 9

SYM	REVISION	DATE	BY
A1	REVISED NOTES PER BCCD AND REVISED ANCHOR NOTES PER LARSON CALCS	11.25.09	DCW
A2	REVISED NOTES PER BCCD	01.14.10	DCW



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 Miami Dade Product Control  
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 720 Cel-River Road  
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DRAWN BY G. HALL	SYSTEM SERIES IG500 STORM FRONT ENTRANCE SYSTEM
DATE 06/26/02	DESCRIPTION SUBMITTAL DRAWINGS
SCALE AS SHOWN	DRAWING NO. USA-2401
	SHEET 8 OF 9

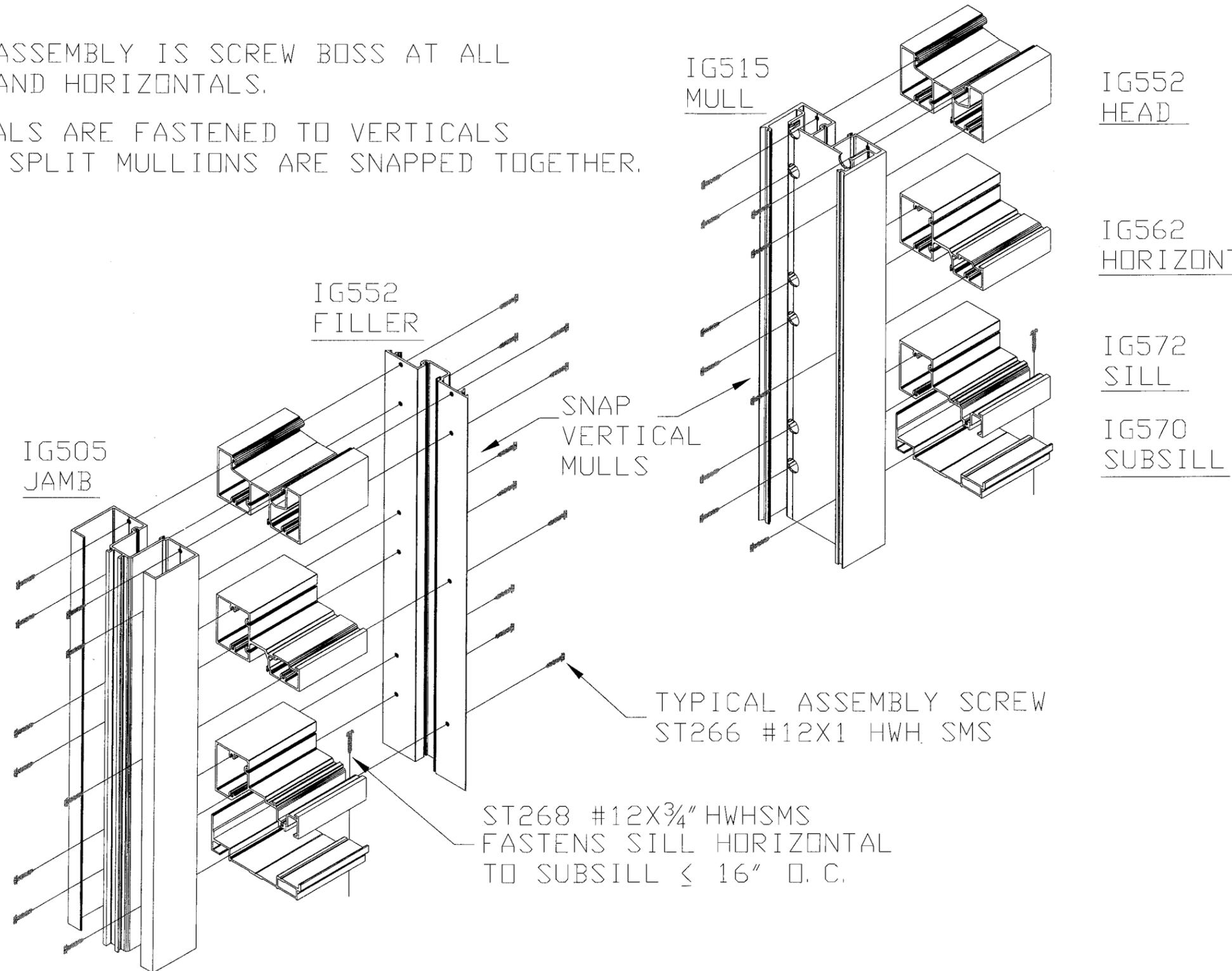
**7**

HORIZONTAL MULLION @ DOOR DETAIL

REF ONLY SEE DOOR SEPARATE NOA  
 6063 T5 NOTE: ALL DIMENSIONS IN INCHES"

SYM	REVISION	DATE	BY
(A2)	ADDED SHEET REVISED NOTES PER BCCO AND REVISED ANCHOR NOTES PER LARSON CALCS	01.14.10	DCW

NOTE:  
 TYPICAL ASSEMBLY IS SCREW BOSS AT ALL CORNERS AND HORIZONTALS.  
 HORIZONTALS ARE FASTENED TO VERTICALS AND THEN SPLIT MULLIONS ARE SNAPPED TOGETHER.



TYPICAL ASSEMBLY SCREW  
 ST266 #12X1 HWH SMS

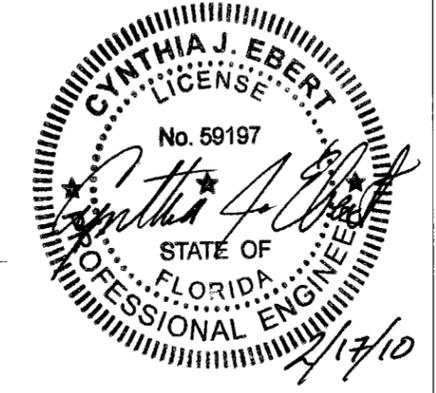
ST268 #12X3/4" HWH SMS  
 FASTENS SILL HORIZONTAL  
 TO SUBSILL ≤ 16" O. C.

IG552  
 HEAD

IG562  
 HORIZONTAL

IG572  
 SILL

IG570  
 SUBSILL



THIS SPACE RESERVED FOR STRUCTURAL ENGINEER

(A1)

**Larson Engineering, Inc.**  
 5757 Phantom Drive, Suite 200  
 St. Louis, MO 63042-2429  
 314.731.4710 Fax: 314.731.4712  
 www.larsonengr.com © 2009 LEI  
 Project Number: 53090332.000  
 Florida COA #: 00009803  
 Cynthia J. Ebert  
 Registration #: 59197

THIS SPACE RESERVED FOR METRO-DADE USE ONLY

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 09-0224-08  
 Expiration Date MARCH 15, 2015  
 By *Warrick D...*  
 Metro Dade Product Control  
 Division

United States Aluminum  
 720 Cel-River Road  
 Rock Hill, SC 29730  
 200 Singleton Drive  
 Waxahachie, TX 75165

DRAWN BY DCW	SYSTEM SERIES IG500
DATE 01.14.10	STORM FRONT ENTRANCE SYSTEM
APPVD BY	DESCRIPTION SUBMITTAL DRAWINGS
SCALE AS SHOWN	DRAWING NO. USA-2401
	SHEET 9 OF 9