



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING
 140 WEST FLAGLER STREET, SUITE 1107
 MIAMI, FLORIDA 33130-1563
 (305) 375-2902 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

CGI WINDOWS AND DOORS, INC.
 10100 NW 25 Street
 Miami, FL 33172

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 "Sentinel 110" Aluminum Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W10-03**, titled Series "**110 Sentinel Aluminum S.H. Window (L.M.I. / S.M.I.)**", sheets 1 through 9 of 9, dated 02/02/10, with the latest revision no. "**A**", dated 08/13/10, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and Approval 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 consists of this page 1, evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
 9/20/10

NOA No. 10-0510.11
 Expiration Date: September 22, 2015
 Approval Date: September 22, 2010

CGI WINDOWS AND DOORS, INC.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W10-03**, titled Series "**110 Sentinel Aluminum S.H. Window (L.M.I. / S.M.I.)**", sheets 1 through 9 of 9, dated 02/02/10, with the latest revision no. "**A**", dated 08/13/10, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of mullion, prepared by Hurricane test Laboratory, LLC, Test Report No. **HTL-0080-0101-10**, dated February 03, 2010, signed and sealed by Vinu J. Abraham, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 04/26/10, signed and sealed by Javad Ahmad, P. E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

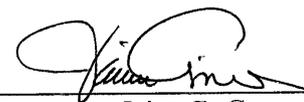
1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.
3. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites Glass Interlayer**" dated 7/17/08, expiring on 12/11/13.

F. STATEMENTS

1. Statement letter of conformance, no financial interest and compliance with the FBC-2007, dated March 23, 2010, signed and sealed by Javad Ahmad, P. E.
2. Laboratory compliance letter for Test Report No. **HTL-0080-0101-10**, issued by Hurricane Test Laboratory, LLC, dated February 03, 2010, signed and sealed by Vinu J. Abraham, P. E.
3. Proposal No. **09-0032** issued by BCCO, dated October 22, 2009, signed by Renzo Narcisco.

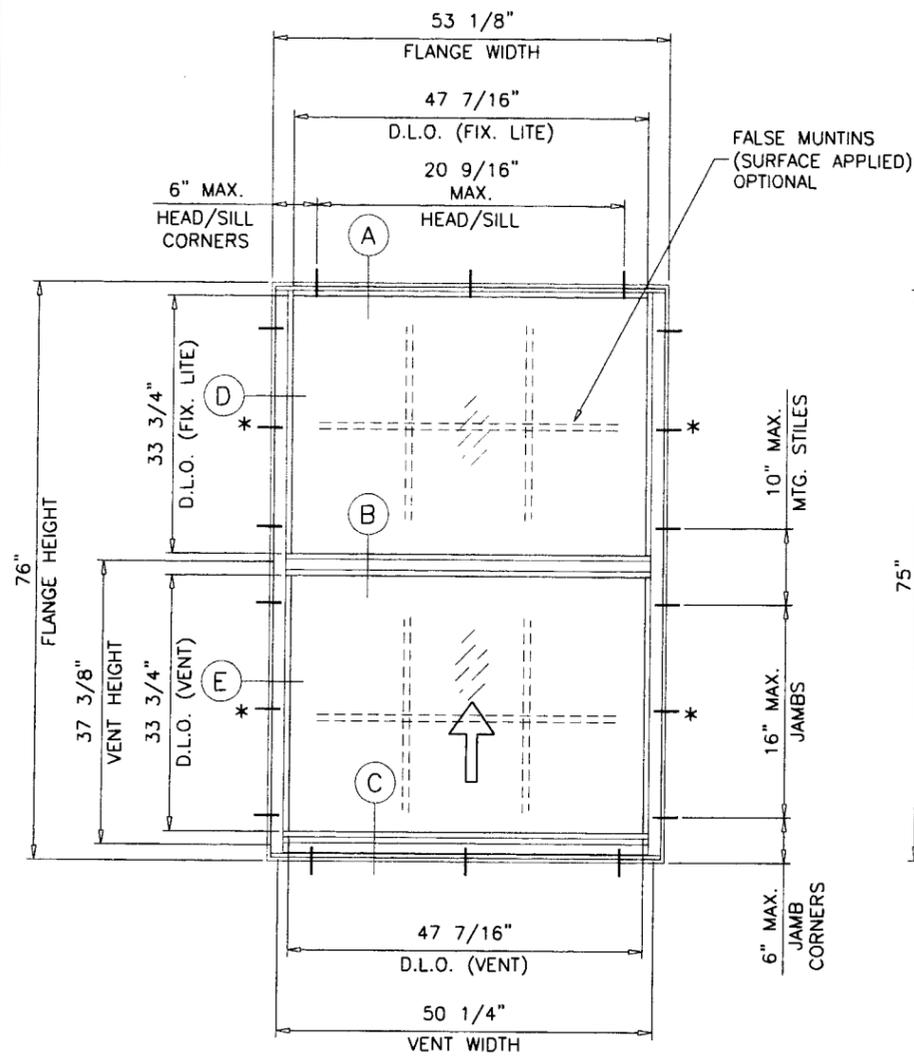
G. OTHERS

1. None.

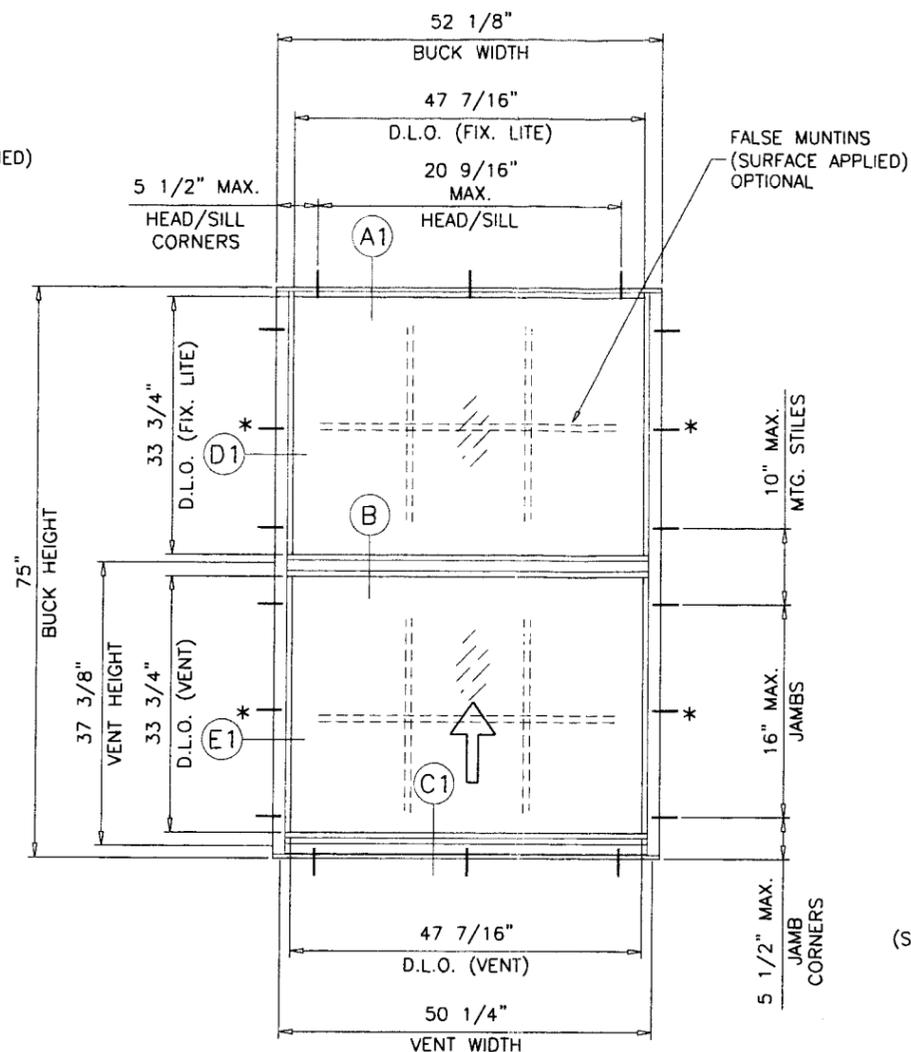


Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 10-0510.11

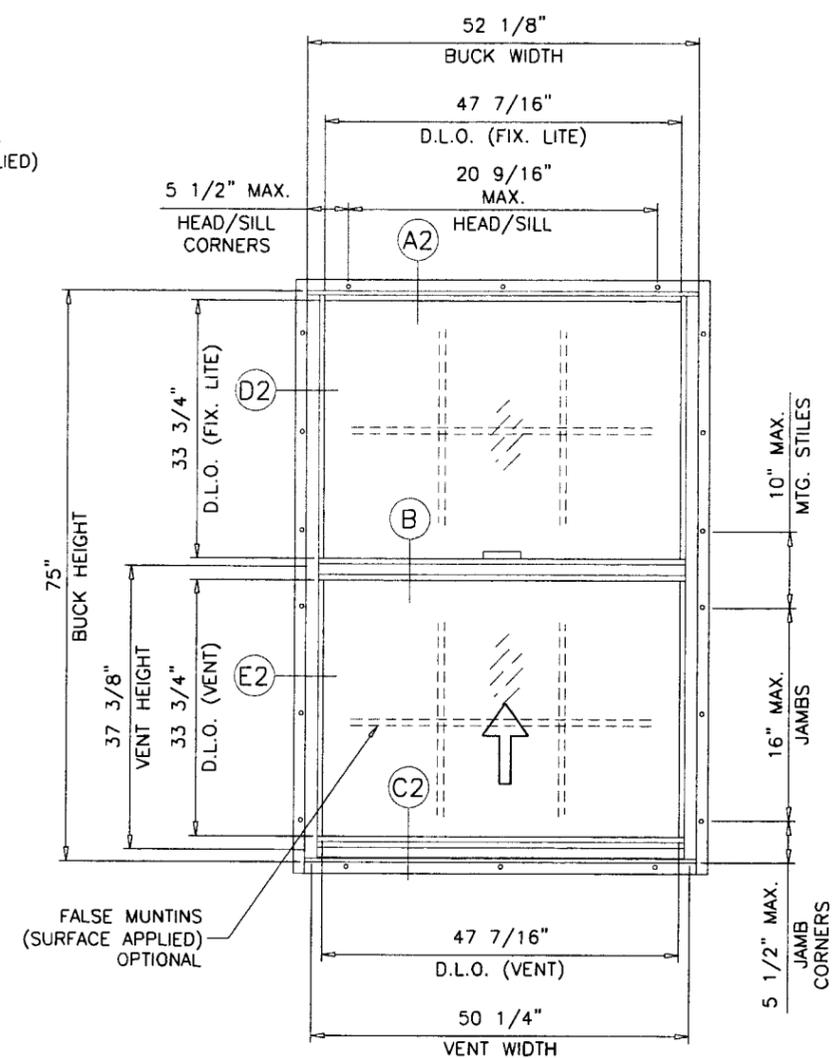
Expiration Date: September 22, 2015
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FLANGE & FLANGE ADAPTOR FRAME



EQUAL LEG FRAME



FIN FRAME

TYPICAL ELEVATION

SERIES 110 SENTINEL ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WDW. WITH OTHER MIAMI-DADE COUNTY APPROVED WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

* ADDITIONAL ANCHORS ARE REQUIRED WHEN THE DESIGN PRESSURE IS GREATER THAN > 75 PSF

LAMINATED GLASS
INSULATING LAM. GLASS
SMALL MISSILE IMPACT
LARGE MISSILE IMPACT

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

J.A.
AUG 13 2010

Approved as complying with the
Florida Building Code
Date 09/22/2010
NOA# 10-0510.11
Miami Dade Product Control
Division
By *[Signature]*

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W10-03CGI

SERIES 110 SENTINEL ALUM S.H. WDW.(S.M.I) (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

no	date	description
A	08.13.10	REV. PER BCCO COMMENTS

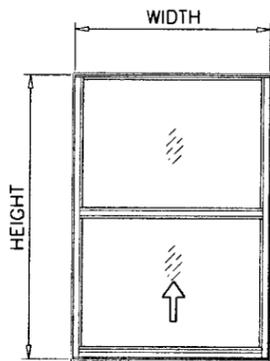
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chk. by:

drawing no.
W10-03

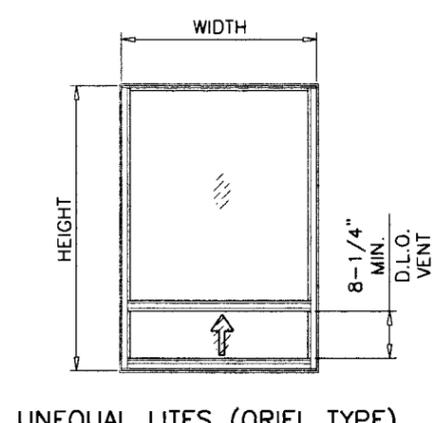
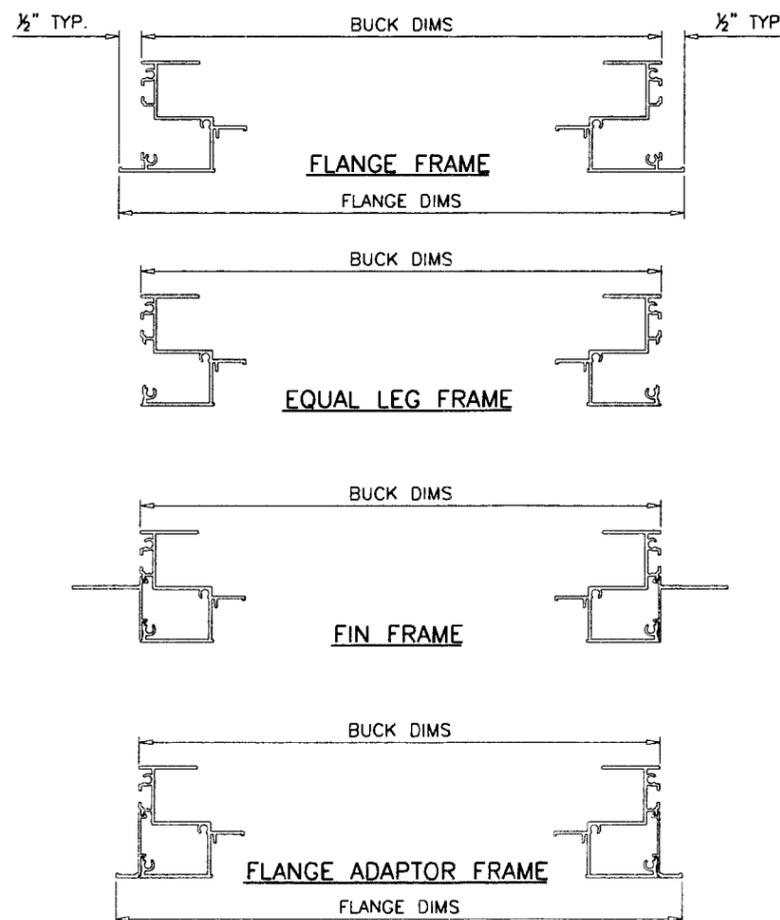
sheet 1 of 9

EQUAL LITES WINDOWS							
DESIGN LOAD CAPACITY - PSF							
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	18-1/8"	25"	75.0	75.0	80.0	85.0
26-1/2"		36"		75.0	75.0	80.0	85.0
37"		48"		75.0	75.0	80.0	85.0
49"		52-1/8"		75.0	75.0	80.0	85.0
53-1/8"	38-3/8"	18-1/8"	37-3/8"	75.0	75.0	80.0	85.0
19-1/8"		36"		75.0	75.0	80.0	85.0
26-1/2"		48"		75.0	75.0	80.0	85.0
37"		52-1/8"		75.0	75.0	80.0	85.0
49"	50-5/8"	18-1/8"	49-5/8"	75.0	75.0	80.0	85.0
19-1/8"		36"		75.0	75.0	80.0	85.0
26-1/2"		48"		75.0	75.0	80.0	85.0
37"		52-1/8"		75.0	75.0	80.0	85.0
49"	63"	18-1/8"	62"	75.0	75.0	80.0	85.0
19-1/8"		36"		75.0	75.0	80.0	85.0
26-1/2"		48"		75.0	75.0	80.0	85.0
37"		52-1/8"		75.0	75.0	80.0	85.0
49"	76"	18-1/8"	75"	75.0	75.0	80.0	85.0
19-1/8"		36"		75.0	75.0	80.0	85.0
26-1/2"		48"		75.0	75.0	80.0	85.0
37"		52-1/8"		75.0	75.0	80.0	85.0
49"	85"	18-1/8"	84"	75.0	75.0	80.0	85.0
19-1/8"		36"		75.0	75.0	80.0	85.0
26-1/2"		48"		75.0	75.0	80.0	85.0
37"		52-1/8"		75.0	75.0	80.0	85.0
46-1/2"		45-1/2"		75.0	75.0	80.0	85.0

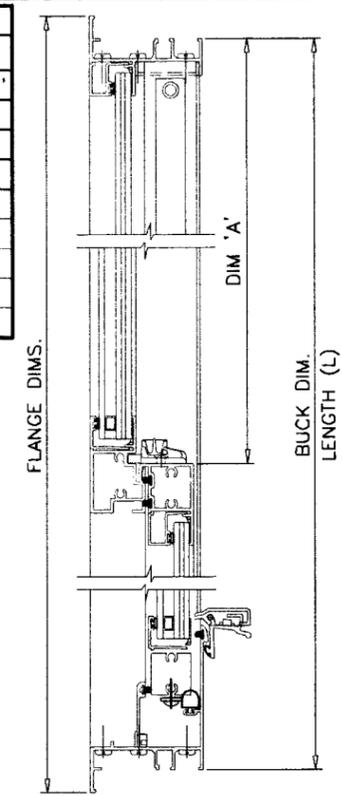
UNEQUAL LITES WINDOWS								
DESIGN LOAD CAPACITY - PSF								
FLANGE DIMS.		BUCK DIMS.		MAX.TOP LITE	GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	'A' DIM.	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
53-1/8"	76"	52-1/8"	75"	36-1/4"	75.0	75.0	80.0	85.0
49"	79"	48"	78"	39-1/4"	75.0	75.0	80.0	85.0
26-1/2"	85"	25-1/2"	84"	70-5/8"	75.0	75.0	80.0	85.0
31"		30"		63-5/8"	75.0	75.0	80.0	85.0
33"		32"		60"	75.0	75.0	80.0	85.0
37"		36"		53-1/2"	75.0	75.0	80.0	85.0
43"		42"		45-1/4"	75.0	75.0	80.0	85.0



EQUAL LITES



UNEQUAL LITES (ORIEL TYPE)



Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538

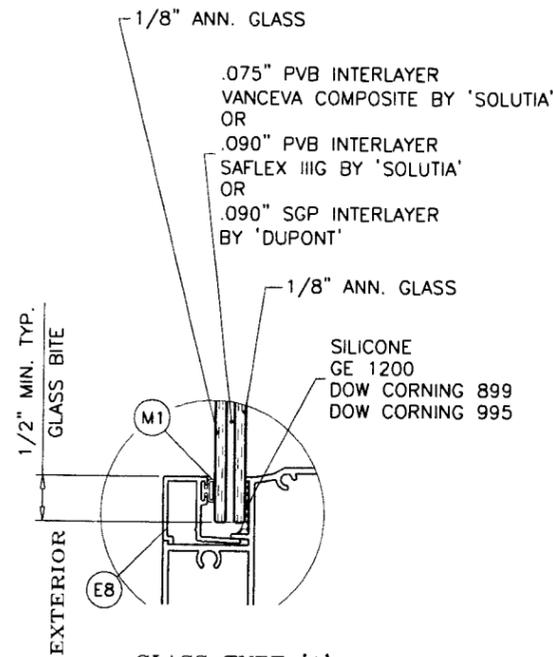
[Signature]
 AUG 13 2010

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 Miami Dade Product Control
 Division
 By *[Signature]*

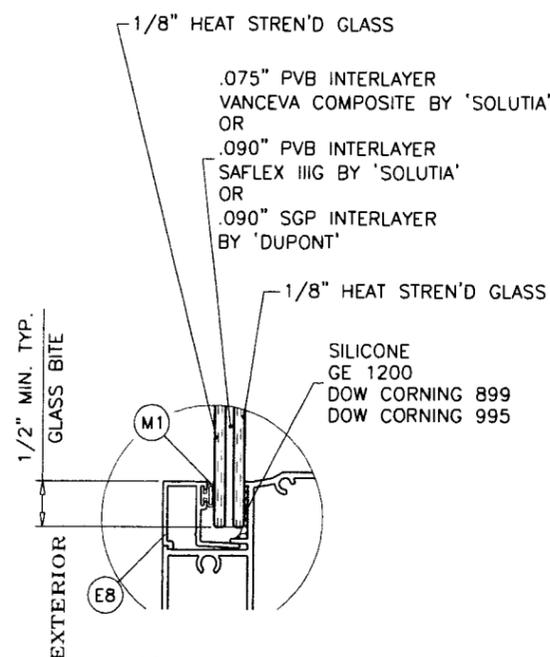
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W10-03CGI

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revisions:	no.	date	by	description
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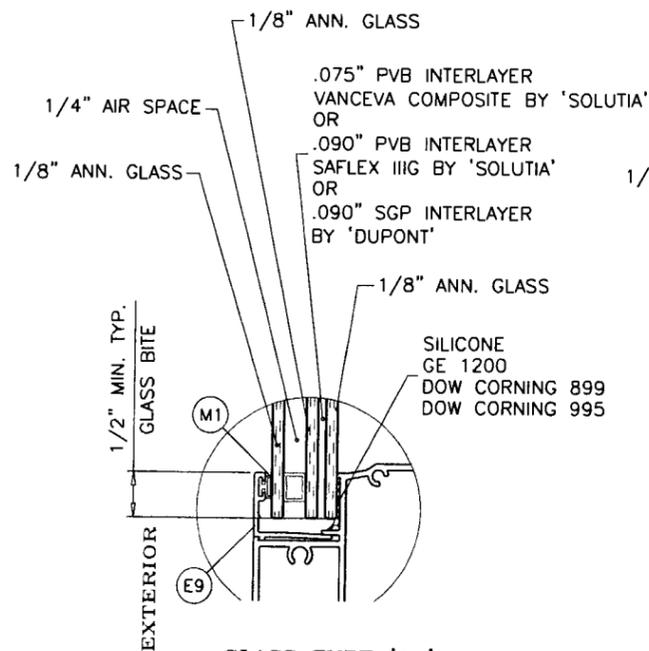


GLASS TYPE 'A'
5/16" OVERALL LAM. GLASS



GLASS TYPE 'B'
5/16" OVERALL LAM. GLASS

(L.M.I. & S.M.I.)

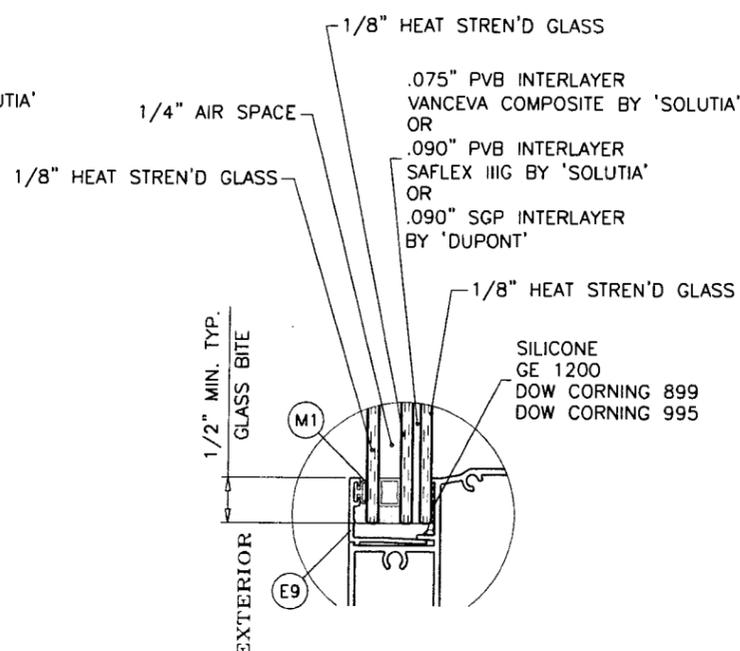


GLASS TYPE 'A1'
0.70" OVERALL INSUL. LAM. GLASS

(L.M.I. ONLY)

(S.M.I.)

IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPES 'A1' & 'B1' MUST BE TEMPERED.



GLASS TYPE 'B1'
0.70" OVERALL INSUL. LAM. GLASS

af c
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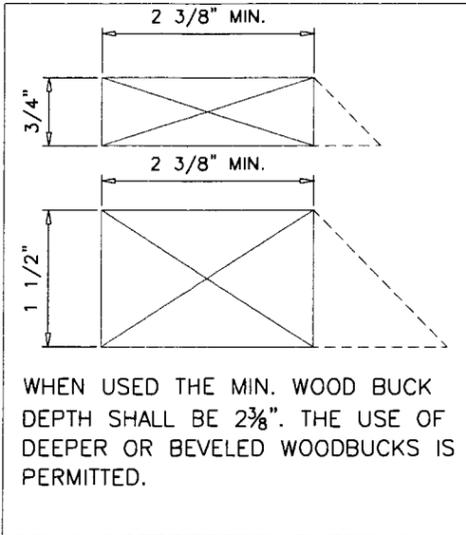
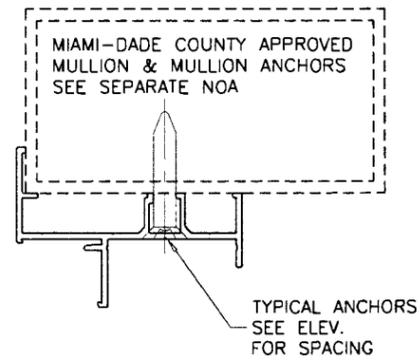
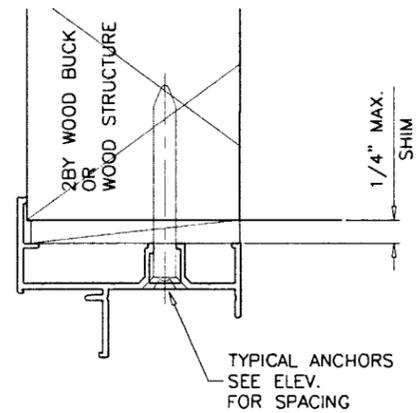
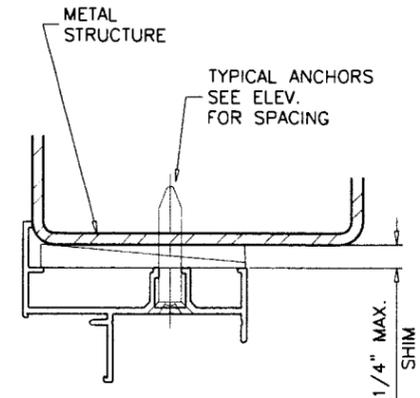
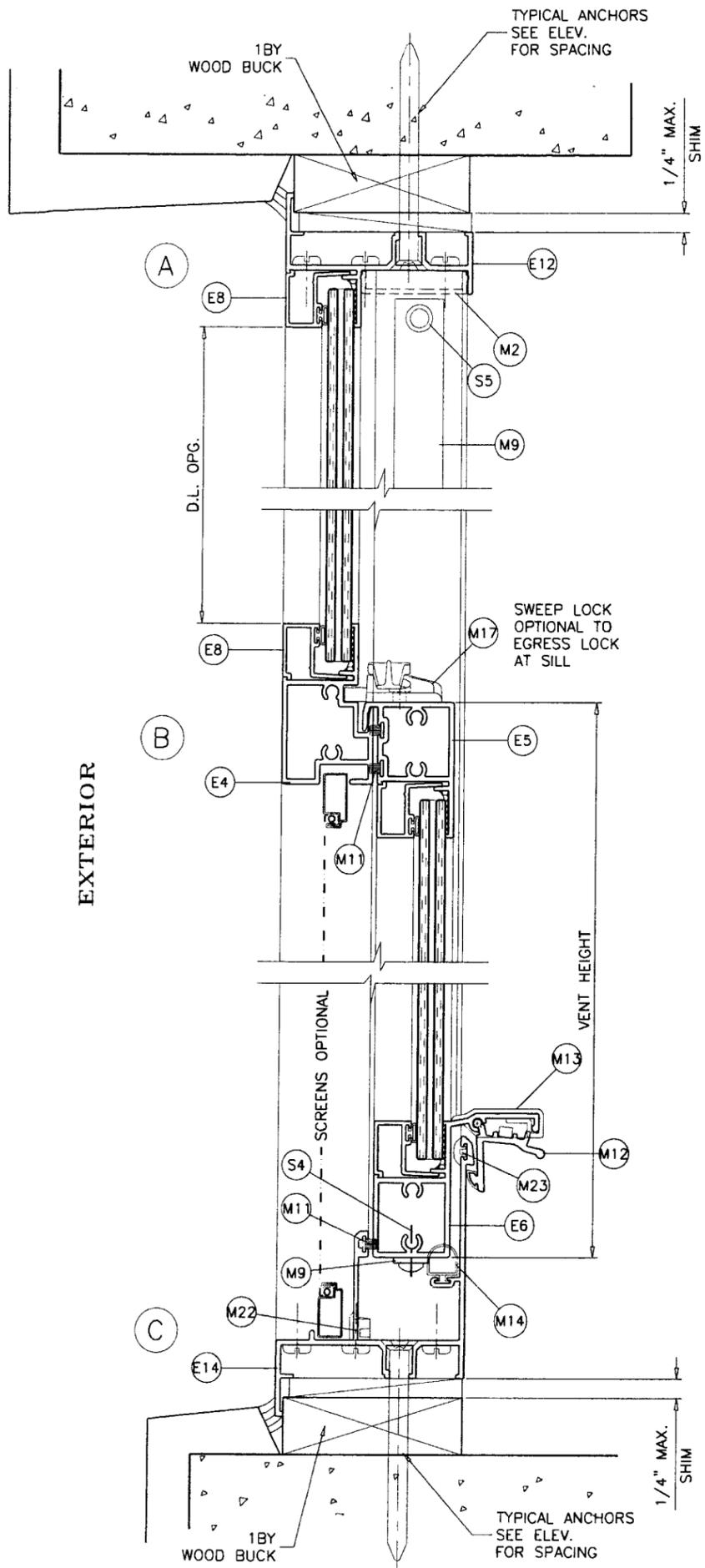
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drawing no.
W10-03
sheet 3 of 9

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
[Signature]
AUG 13 2010

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Miami Dade Product Control
Division
By *[Signature]*

FLANGE & FLANGE ADAPTOR FRAME



WHEN USED THE MIN. WOOD BUCK DEPTH SHALL BE 2 3/8". THE USE OF DEEPER OR BEVELED WOODBUCKS IS PERMITTED.

WOOD BUCKS AND METAL STRUCTURE NOT BY CGI WDW. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

- TYPICAL ANCHORS:** SEE ELEV. FOR SPACING
- 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
 - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 - INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 - 1-3/8" MIN. PENETRATION INTO WOOD
 - THRU 1BY BUCKS INTO CONC. OR MASONRY
 - 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 - DIRECTLY INTO CONC. OR MASONRY
 - 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 - #14 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)
 - INTO METAL STRUCTURES
 - STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 - ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 - (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

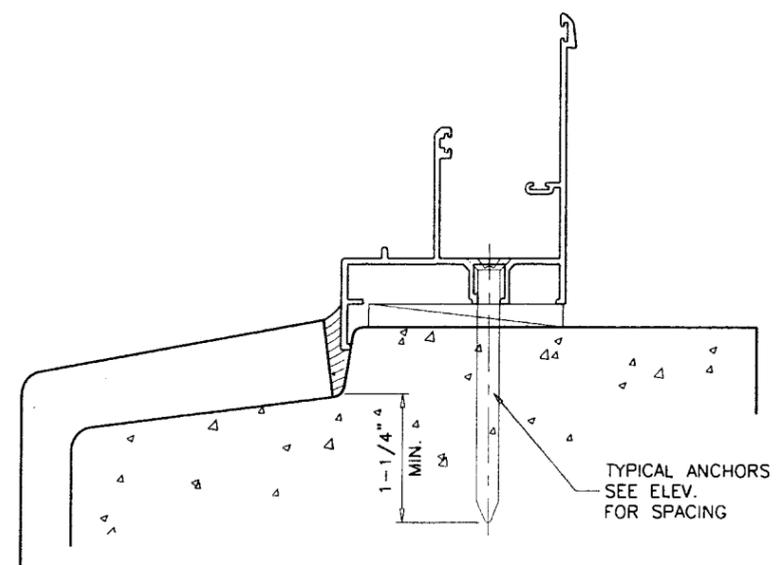
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090") (NO SHIM SPACE)

TYPICAL EDGE DISTANCE

- INTO CONCRETE AND MASONRY = 2" MIN.
- INTO WOOD STRUCTURE = 1" MIN.
- INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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drawing no.
W10-03
sheet 4 of 9

FLANGE & FLANGE ADAPTOR FRAME

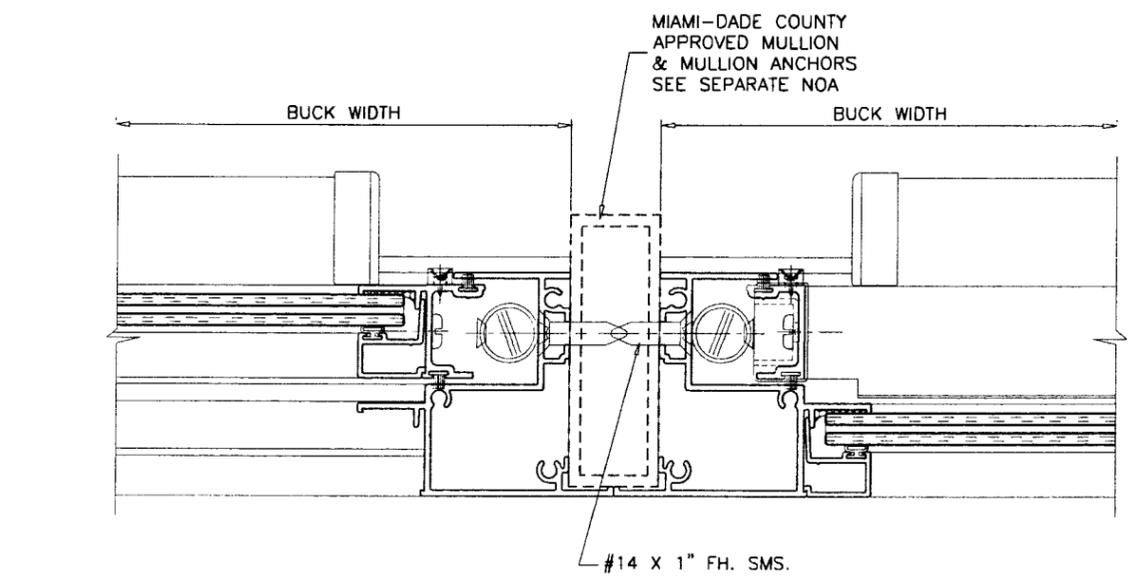
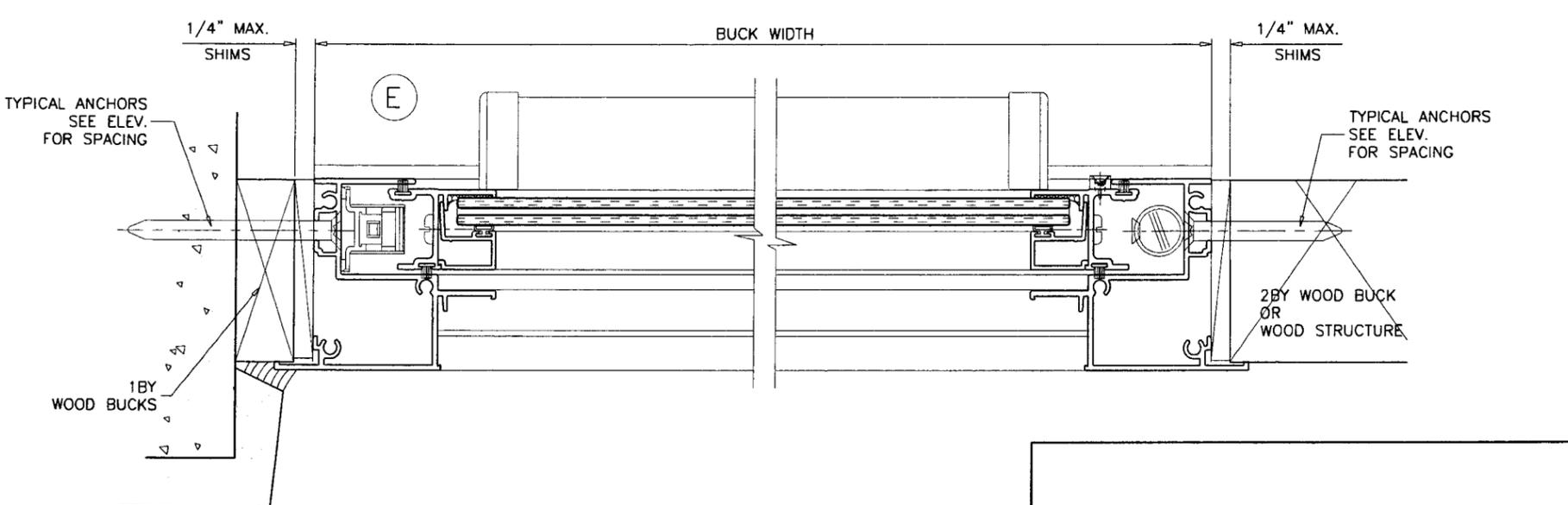
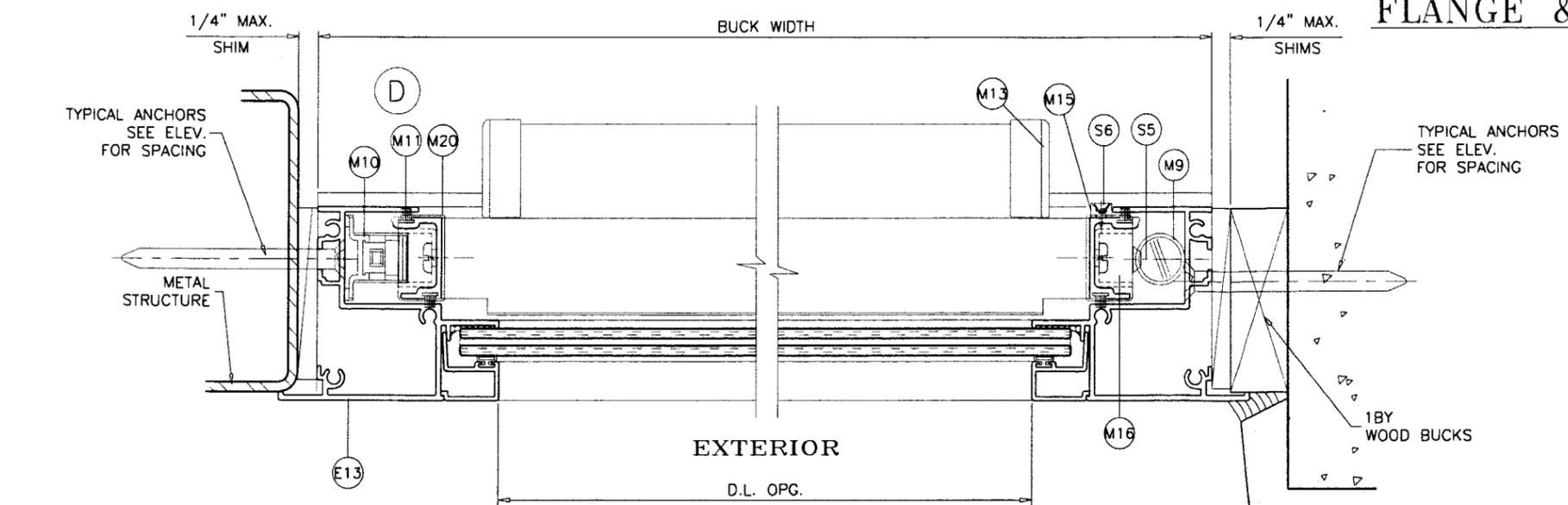
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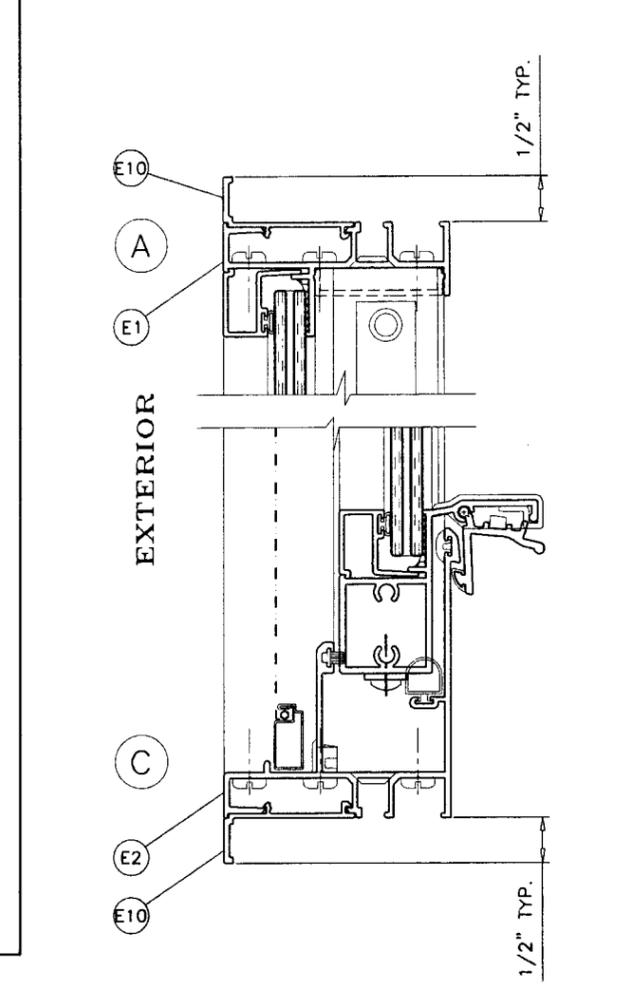
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chk. by:	

drawing no.
W10-03
 sheet 5 of 9



FLANGE ADAPTOR FRAME



INSTALLATION DETAILS SHOWN ON PAGES 4 AND 5 APPLY TO BOTH FLANGE FRAME AND FLANGE ADAPTOR FRAMES.

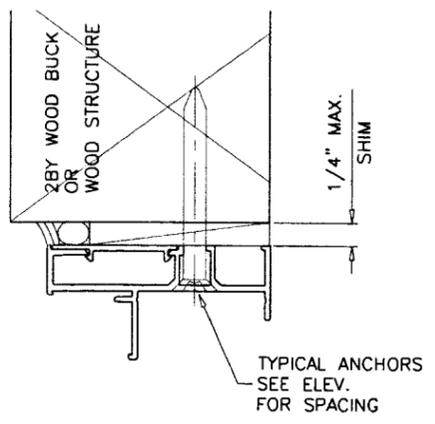
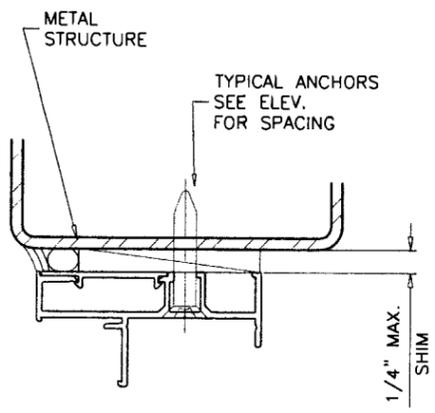
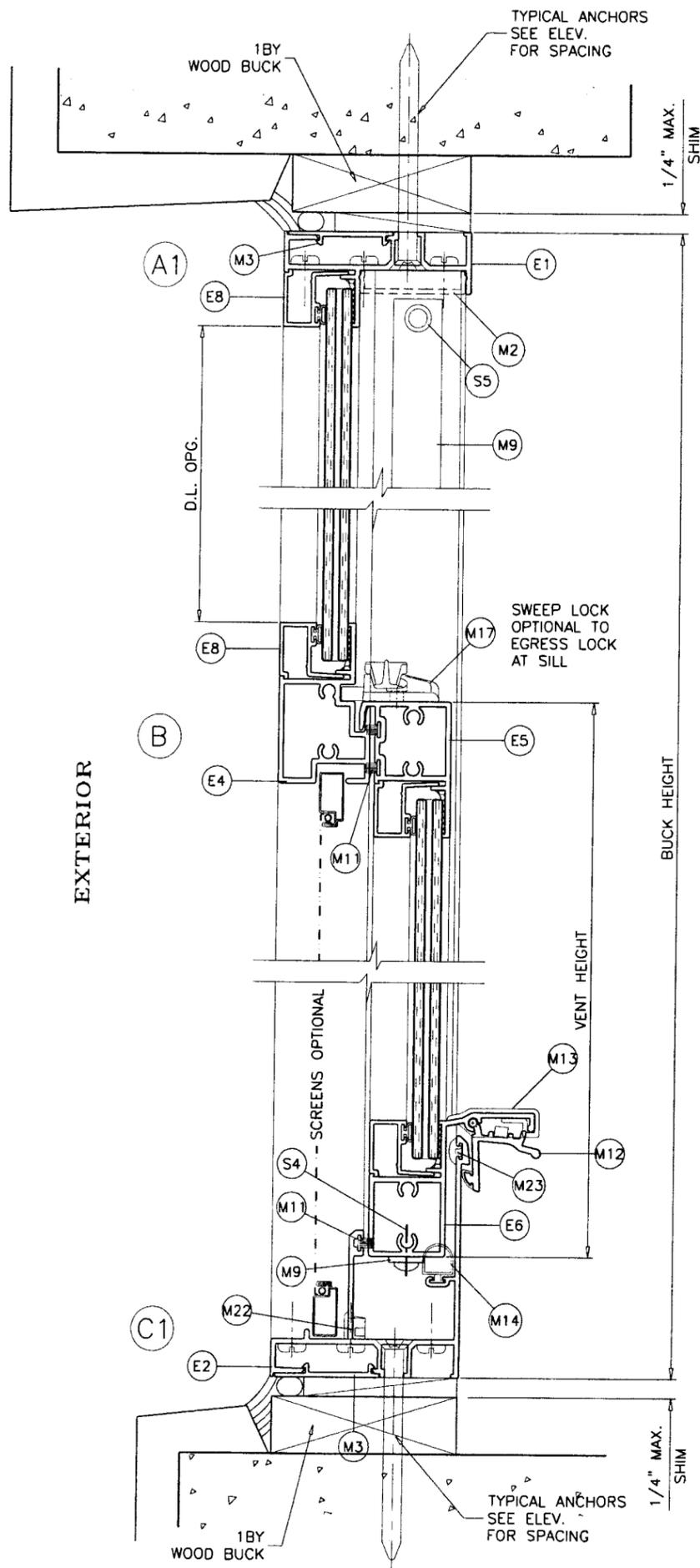
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 Division
 By *Javad Ahmad*

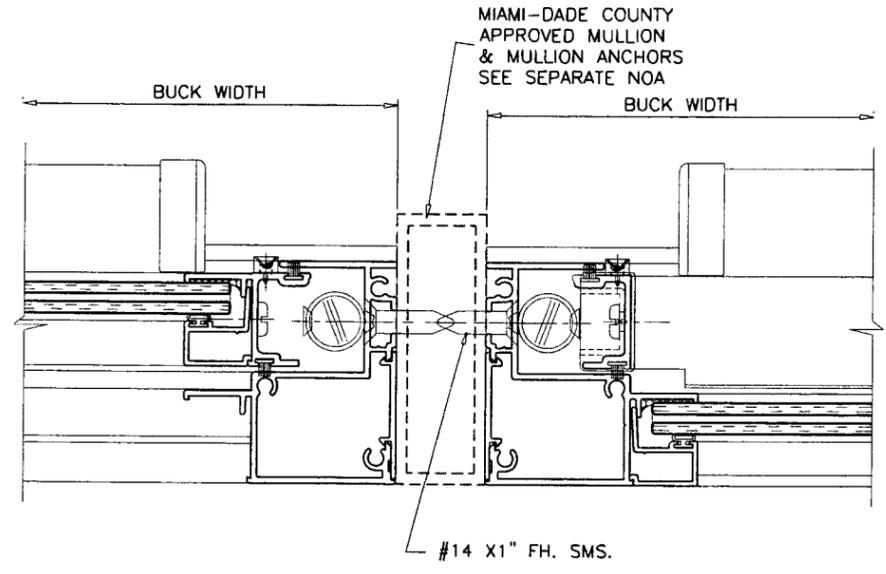
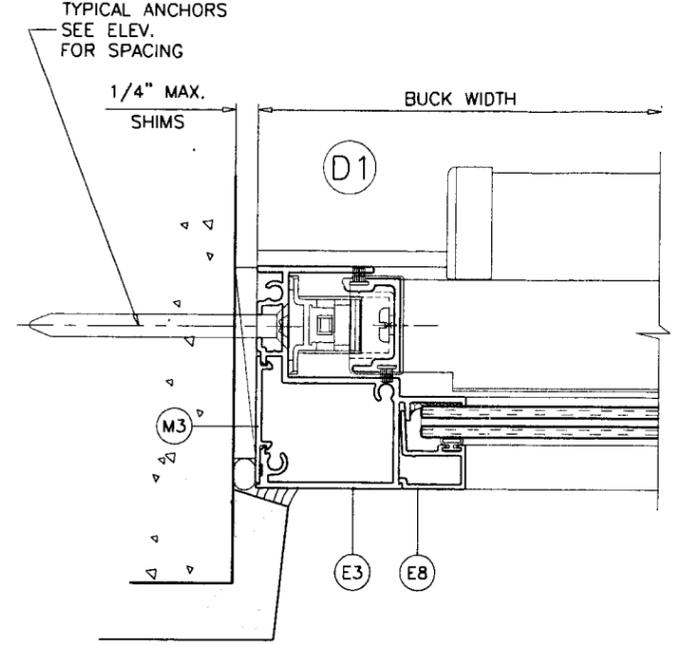
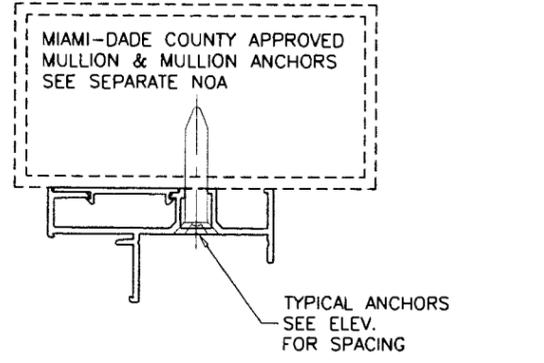
MIAMI-DADE COUNTY
 APPROVED MULLION
 & MULLION ANCHORS
 SEE SEPARATE NOA

#14 X 1" FH. SMS.

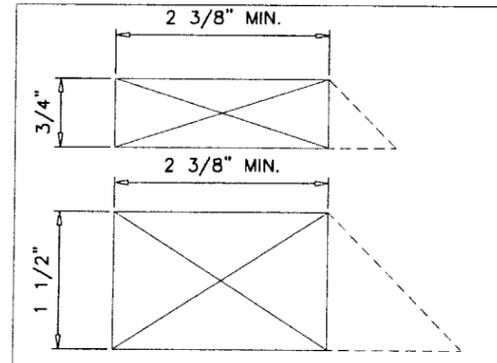
EXTERIOR



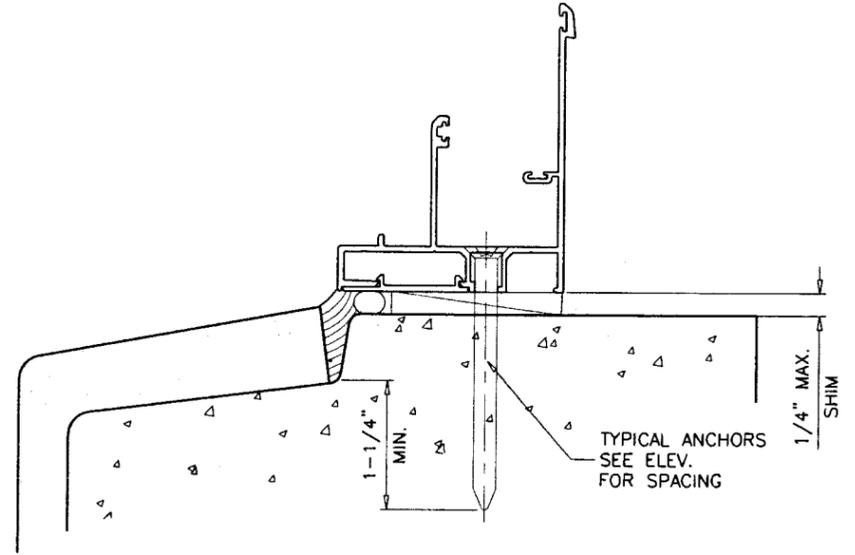
EQUAL LEG FRAME



EQUAL LEG FRAME CAN BE INSTALLED DIRECTLY INTO WOOD, CONCRETE OR METAL STRUCTURES WITHOUT THE NEED OF A WOOD BUCK.



WHEN USED THE MIN. WOOD BUCK DEPTH SHALL BE 2 3/8". THE USE OF DEEPER OR BEVELED WOODBUCKS IS PERMITTED.



Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 AUG 13 2010

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 Date 09/22/2010
 NOA# 10-0510-11
 Miami-Dade Product Control
 Division
 By *[Signature]*

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W10-03CGI

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CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
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no	date	description
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drawing no.
W10-03

FIN FRAME



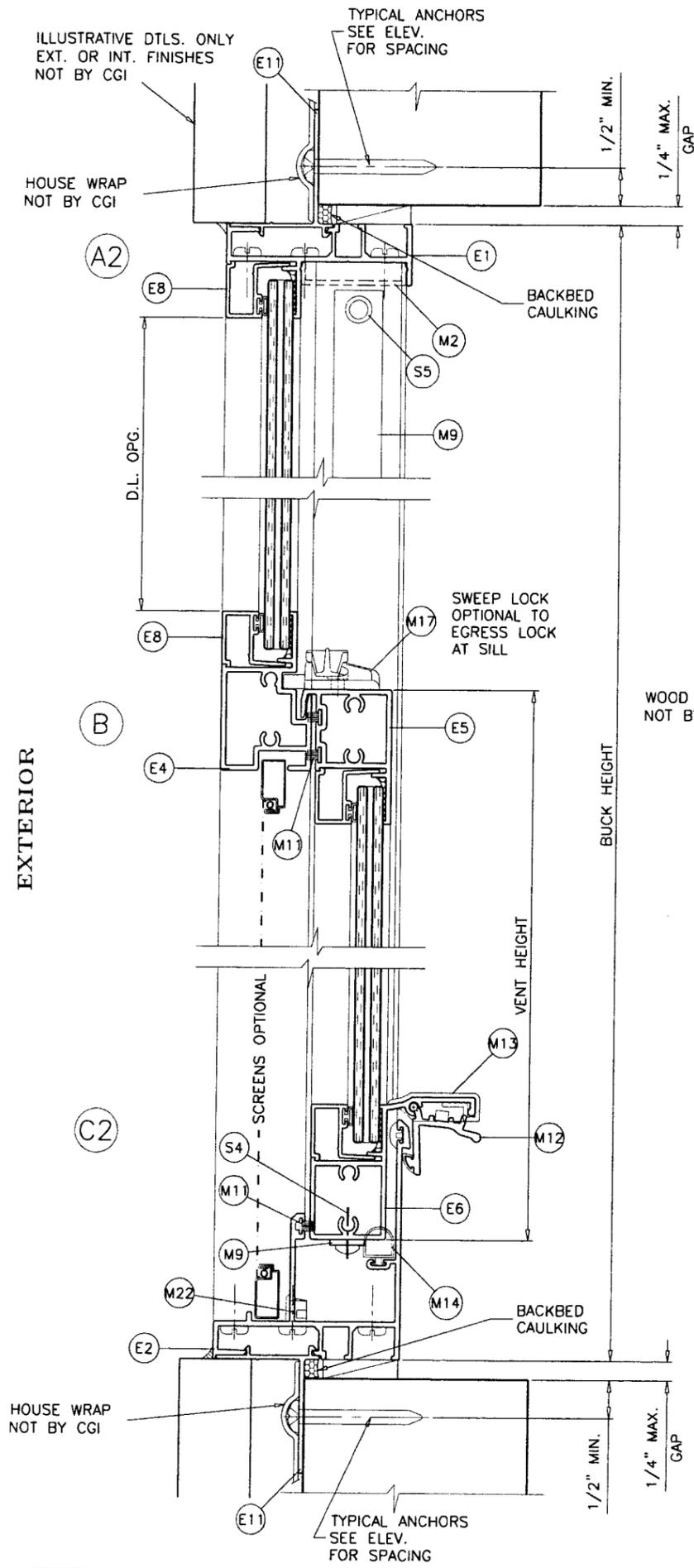
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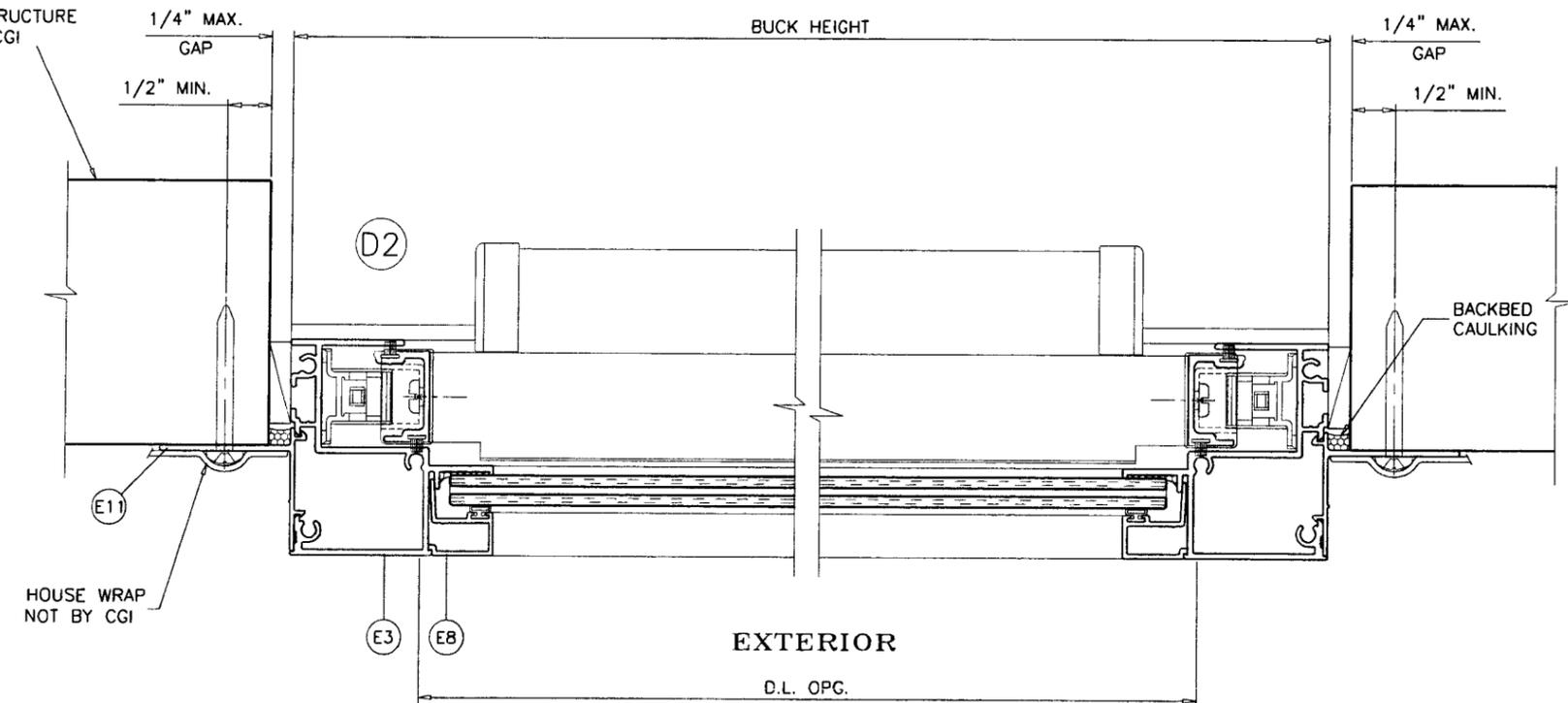
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dr. by:
chk. by:

drawing no.
W10-03
sheet 7 of 9



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
#8 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/4" MIN. PENETRATION INTO WOOD



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ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	CGI-100	1	FRAME HEAD	6063-T6	-
E2	CGI-101	1	FRAME SILL	6063-T6	-
E3	CGI-102	2	FRAME JAMB	6063-T6	-
E4	CGI-103	1	MEETING RAIL	6063-T6	-
E5	CGI-104	1	LOCK RAIL	6063-T6	-
E6	CGI-105	1	HANDLE RAIL	6063-T6	-
E7	CGI-106	2	SASH RAIL	6063-T6	-
E8	CGI-107	AS REQD.	5/16" GLAZING BEAD	6063-T5	-
E9	CGI-108	AS REQD.	0.700" GLAZING BEAD	6063-T5	-
E10	CGI-109	AS REQD.	FRONT FLANGE ADAPTOR	6063-T6	-
E11	CGI-110	AS REQD.	NAIL FIN ADAPTOR	6063-T5	-
E12	CGI-135	1	FLANGE FRAME HEAD	6063-T6	-
E13	CGI-136	2	FLANGE FRAME JAMB	6063-T6	-
E14	CGI-137	1	FLANGE FRAME SILL	6063-T6	-
E17	CGI-605	OPTIONAL	SCREEN FRAME	6063-T5	-
M1	CGI-382V	AS REQD.	GLAZING BULB VINYL (DUROMETER 75-80 SHORE A)	PVC	-
M2	CGI-111	OPTIONAL	SCREW COVER	PVC	PROTOTYPE OR EQUIV.
M3	CGI-112	AS REQD.	EQUAL LEG COVER/SHIM, 3" LONG AT ANCHOR LOCATIONS	PVC	-
M9	SUPER BOOST	2/ WDW.	SPIRAL BALANCE	-	BSI OR EQUIV.
M10	-	2/ WDW.	BLOCK/TACKLE BALANCE	-	BSI OR EQUIV.
M11	W23201NG	AS REQD.	PILE WITH CENTER FIN	WOOL	ULTRAFAB OR EQUIV.
M12	CGI-129	1/ WDW.	EGRESS LOCK	ALUM.	SULLIVAN
M13	CGI-131	2/ WDW.	HANDLE RAIL END CAP	NYLON	M&M
M14	E26018WN	-	D BULB-T SLOT	PVC	ULTRAFAB OR EQUIV.
M15	CGI-133	4/ WDW.	SASH GUIDE(SPIRAL BALANCE)	NYLON	M&M
M16	CGI-130	2/ WDW.	SASH TOP GUIDE(SPIRAL BALANCE)	NYLON	M&M
M17	A30730401-32	1/ WDW.	CAM LOCK	ZINC	TRUTH OR EQUIV.
M18	CGI-132	2/ WDW.	SASH STOP, 2" LONG	PVC	PROTOTYPE OR EQUIV.
M20	CGI-125	2/ WDW.	SASH CAM (B/T BALANCE)	NYLON	M&M
M21	-	2/ WDW.	B/T BALANCE TAKE OUT CLIP	-	BSI OR EQUIV.
M22	146-6	2/ WDW.	WEEP COVER	NYLON	AMESBURY OR EQUIV
M23	CGI-134	-	SILL SPACER	PVC	PROTOTYPE OR EQUIV.
S2	-	2 OR 3/CORNER	# 10 X 1 1/4" LG. PHL. PH. SMS. ST/ST. ASSEMBLY SCREW	-	-
S4	-	4/ WDW.	# 8 X 1/2" PH. SMS. ST/ST BALANCE BRACKET SCREW	-	-
S5	-	2/ WDW.	# 8 X 1" LG. FH. SMS. ST/ST. SPIRAL B. ASSEMBLY	-	-
S6	-	2/ LOCK	# 6 X 1/2" LG. FH. SMS. @ CGI-133 & CAM LOCK	-	-

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JA
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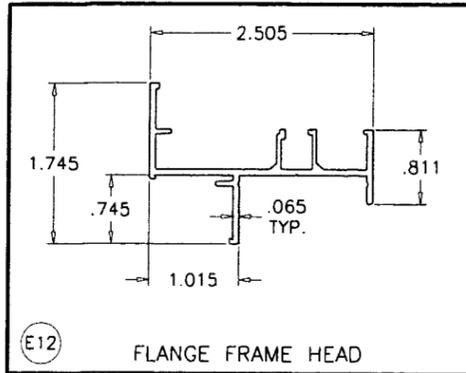
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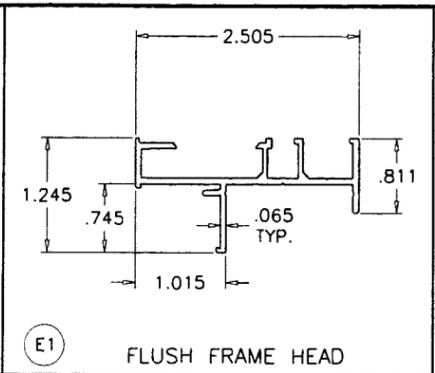
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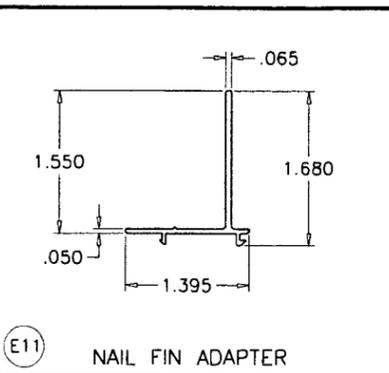
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 sheet 8 of 9



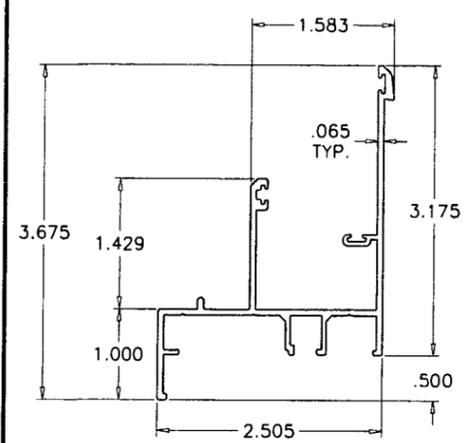
E12 FLANGE FRAME HEAD



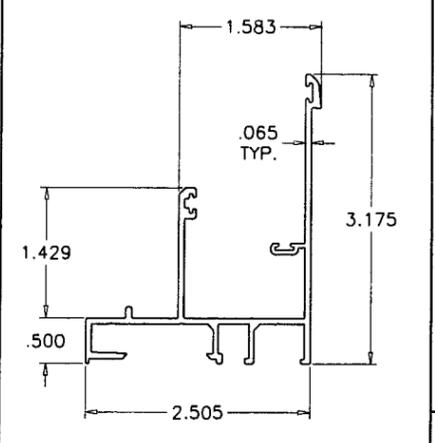
E1 FLUSH FRAME HEAD



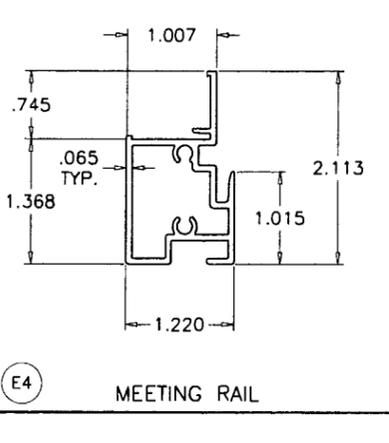
E11 NAIL FIN ADAPTER



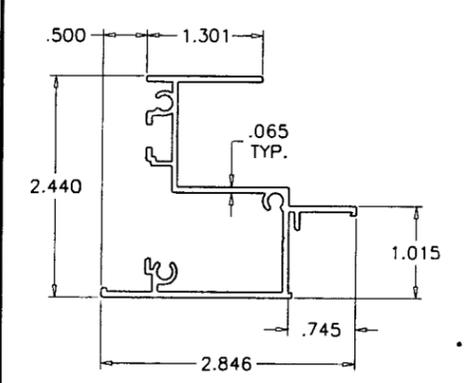
E14 FLANGE FRAME SILL



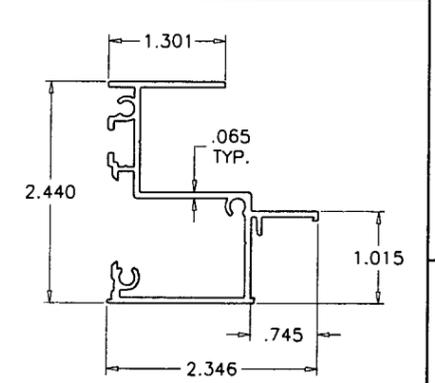
E2 FLUSH FRAME SILL



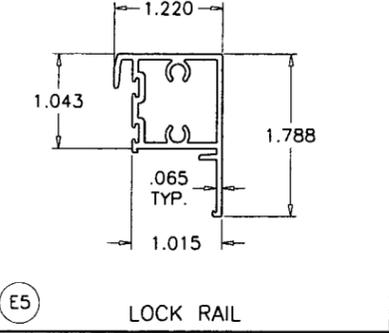
E4 MEETING RAIL



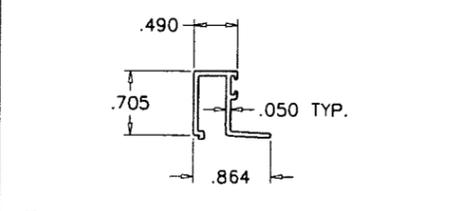
E13 FLANGE FRAME JAMB



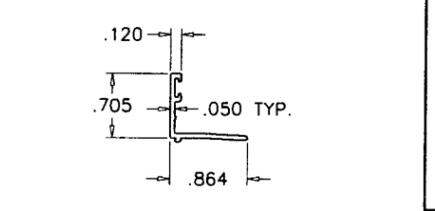
E3 FLUSH FRAME JAMB



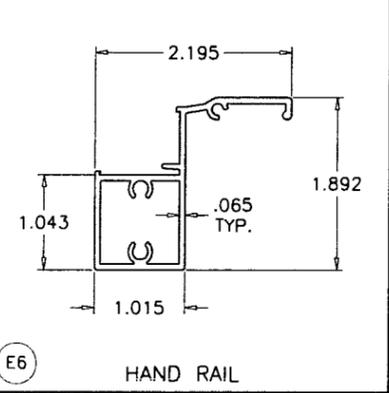
E5 LOCK RAIL



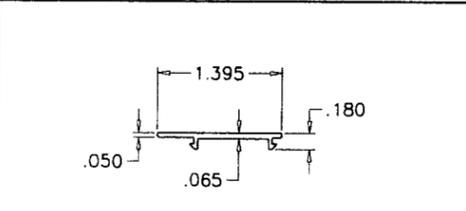
E8 5/16" GLAZING BEAD



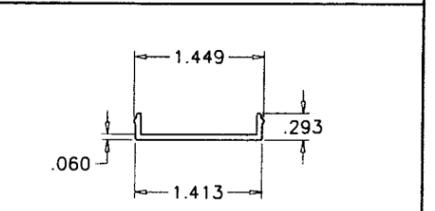
E9 .700" GLAZING BEAD



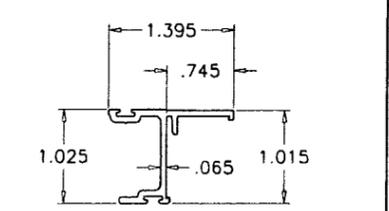
E6 HAND RAIL



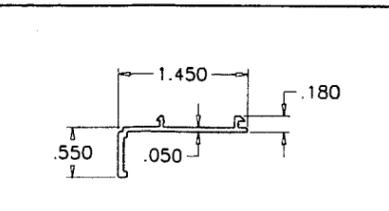
M3 FLUSH FRAME COVER



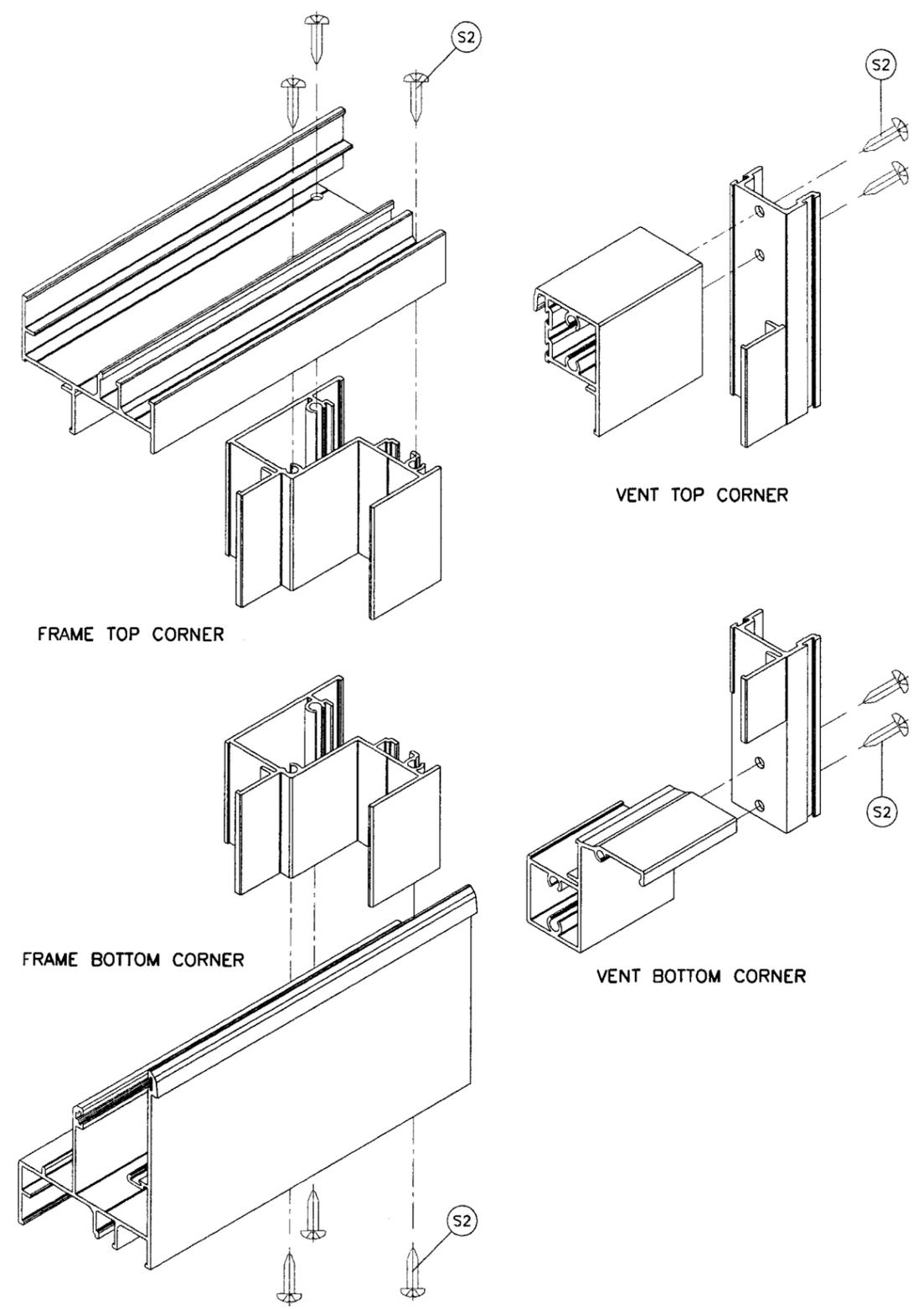
M19 SCREW COVER



E7 SASH RAIL



E10 FLANGE ADAPTOR



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 sheet 9 of 9