



C.R.LAURENCE CO.  
ARCHITECTURAL PRODUCTS  
BUILDING GLASS RAILING SYSTEMS  
SAFER STRONGER WITH BRILLIANT TRANSPARENCY

CURTAIN WALLS

StormWall XL

IMPACT - RESISTANT CURTAIN WALL SYSTEM

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Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

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PRODUCT APPROVAL FOR STORMWALL XL IMPACT - RESISTANT CAPTURED CURTAIN WALL SYSTEM WITH  
MULTIPLE GLAZING INFILLS FOR USE IN HURRICANE ZONES REQUIRING LARGE MISSILE IMPACT PROTECTION.

GENERAL NOTES:

1. STORMWALL XL IMPACT RESISTANT CAPTURED CURTAIN WALL SYSTEM LARGE MISSILE INSULATED & LAMINATED GLASS SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH 2016 EDITION OF THE FLORIDA BUILDING CODE. CURTAIN WALL MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES.
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2. IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED FOR ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.
- IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D. AS TESTED WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS  
THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1625 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER ARCHITECTURAL TESTING LAB REPORTS # A8744.01-801-18, & CONSTRUCTION CONSULTING LAB REPORT # CCU-11-201 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1615 OF THE FLORIDA BUILDING CODE.
2. MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR THIS CURTAIN WALL SHALL BE AS SHOWN ON SHEETS 1.03, 3.02, 3.03, 3.05, 3.09, 3.07, 3.11.
3. THIS PRODUCT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE FOR INSTALLATIONS UP TO 30 FEET ABOVE GRADE.
4. THIS PRODUCT IS APPROVED FOR AIR / WATER INFILTRATION (15.0 PSF WATER PRESSURE).
5. STORMWALL XL - IMPACT RESISTANCE CAPTURED CURTAIN WALL SYSTEM LARGE MISSILE INSULATED & LAMINATED GLASS, SHALL COMPLY WITH SECTIONS 2406.1, 2411.4.1 AND 2411.4.2 OF THE FLORIDA BUILDING CODE.
6. ALL STEEL FRAMING SHALL BE WELDED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY A.W.S. D.1.1 REGULATIONS. USE CERTIFIED WELDERS. USE E-70XX ELECTRODES. ALL JOINT WELDING BETWEEN ANGLES AND STEEL STRUCTURE SHALL BE 3/16" FILLET WELD TYPE.
7. PROVIDE 1/2" MAX. LOAD BEARING SHIM (TYP.) WHEN ALLOWED BY THIS P.A.D.
8. SEE ANCHOR SCHEDULES ON SHEET 3.02 & 3.03 FOR ANCHOR TYPE IDENTIFICATION AND SPACING.
9. REMAINING COMPONENTS FOR THIS CURTAIN WALL SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS.
10. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH STEEL AND CONCRETE SHALL COMPLY WITH SECTIONS 2003.8.4.2 AND 2003.8.4.4 OF THE FLORIDA BUILDING CODE, RESPECTIVELY.
11. SHOP DRAWINGS PREPARED BASED ON THIS APPROVAL AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.
12. SUBSTRATE MATERIAL NOTED ON THESE DRAWINGS AS "BY OTHERS" MUST WITHSTAND THE LOADS IMPOSED BY THE CURTAIN WALL SYSTEM.
13. THIS PRODUCT'S INSTALLATION SHALL COMPLY WITH ALL SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
14. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE / SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFICS FOR REVIEW.
- (e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
15. CURTAIN WALL MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT.

INSTRUCTIONS:

- STEP 1. DETERMINE A.S.D. DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, RISK CATEGORY BUILDING, WIND ZONE, USING APPLICABLE ASCE 7-10 STANDARD.
- STEP 2. GO TO SCHEDULE ON SHEET 1.03 TO DETERMINE MAXIMUM A.S.D. DESIGN PRESSURE RATING "W" (psf) OF DESIRED GLASS SIZE BASED ON GLASS PANEL DIMENSION.
- STEP 3. DETERMINE MAXIMUM MULLION AND JAMB SPAN "L" (FT.) FOR A GIVEN MULLION EFFECTIVE SPACING "b", FOR SINGLE AND TWIN SPANS ON SCHEDULES ON SHEETS 3.05, 3.07, 3.09, 3.11.
- STEP 4. USING SCHEDULES ON SHEETS 3.02 AND 3.03 SELECT ANCHOR OPTION FOR MULLIONS AND JAMBS WITH A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN A.S.D. DESIGN LOAD SPECIFIED IN STEP 1.
- STEP 5. THE LOWEST VALUE OF A.S.D. DESIGN PRESSURE RATING RESULTING FROM STEPS 2, 3, AND 4 SHALL APPLY TO THE ENTIRE SYSTEM.

STANDARD ABBREVIATIONS

- RO ROUGH OPENING  
FD FRAME DIMENSION  
DLO DAYLIGHT OPENING  
DO DOOR OPENING  
DD DOOR DIMENSION  
SMC SURFACE MOUNTED CLOSER  
OHCC OVERHEAD CONCEALED CLOSER

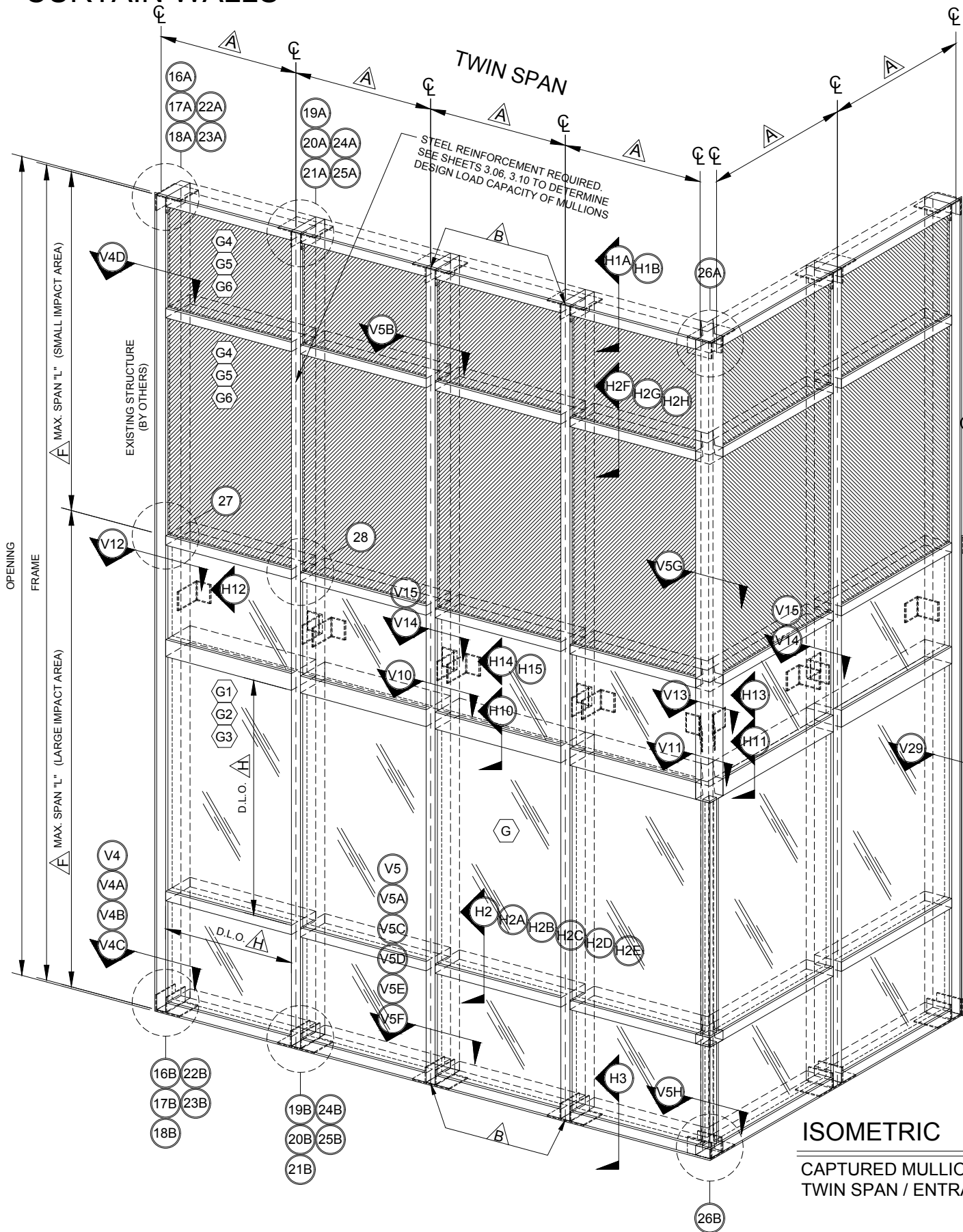
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U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

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StormWall XL  
HURRICANE - RESISTANT CURTAIN WALL SYSTEM



BILL OF MATERIALS						
ITEM #	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL	MFR.	NOTES
1	XLSB2101	SETTING BLOCK	.50 X .188 X 4.00	EPDM 80 DUROMETER	EPG	
2	XLSB2102	SETTING BLOCK	1.250 X .188 X 4.00	EPDM 80 DUROMETER	EPG	
3	XLG5185	INTERIOR SPACER GASKET	.375 X .25	SILICONE 70 DURO	EPG	
4	XLF118	HORIZ. TO SHEAR BLOCK FASTENER	#10 X 1" PFH	ZINC COATED STEEL	VARIES	NOTE 1
5	XLF009	SHEAR BLOCK ASSEMBLY SCREW	#14 X 1-1/2" HH	ZINC COATED STEEL	VARIES	NOTE 1
6	XLF259	JAMB TAP PLATE FASTENER	1/4-20 X 1" PFH TYPE F	ZINC COATED STEEL	VARIES	NOTE 1
7	XLF320	END CAP ATTACHMENT FASTENER	#10 X 1/2" U-DRIVE	ZINC COATED STEEL	VARIES	NOTE 1
8	XLF322	POCKET FILLER ATTACHMENT	#12-14 X 1" HH	ZINC COATED STEEL	VARIES	NOTE 1
9	XLF325	PRESSURE PLATE SCREW	#12-14 X 1-1/2" HH	STALGARD STEEL	ELCO	
10	XLF328	ADAPTOR ATTACHMENT SCREW	#10 X 1-1/2" PFH	ZINC COATED STEEL	VARIES	
11	XLG107	ISOLATOR GASKET	.264 X .626	EPDM 70 DUROMETER	EPG	
12	XLG117	EXTERIOR GASKET	.217 X .438	EPDM 80 DUROMETER	EPG	
13	XLG180	EXTERIOR GASKET AT EXP. HORIZ.	.195 X .380	EPDM 80 DUROMETER	TREMCO	
14	XL100	FACE CAP	R.50 X .50 X .062	6063-T5 ALUMINUM	CRL	
15	XLD102	PRESSURE PLATE	4.394 X .432 X .094	6063-T6 ALUMINUM	CRL	
16	XL115	FACE CAP	3.94 X .528 X .050	6063-T5 ALUMINUM	CRL	
17	XL122	POCKET FILLER	1.562 X .937 X .094	6063-T5 ALUMINUM	CRL	
18	XL130	GLAZING ADAPTOR	.861 X .910 X .080	6063-T5 ALUMINUM	CRL	
19	XL132	CORNER PRESSURE PLATE	3.276 X 2.225 X .094	6063-T6 ALUMINUM	CRL	
20	XL240	CORNER MULLION	6.295 X 2.50 X .094	6063-T6 ALUMINUM	CRL	
21	XLC312	CORNER BRIDGE	3.50 X 1.625 X .625	EPDM 60 DUROMETER	EPG	
22	XLC323	CORNER MULL CAP	3.00 X 1.925 X .063	5005-H32 ALUMINUM	CRL	
23	XLC325	MULL CAP	3.00 X 1.925 X .063	5005-H32 ALUMINUM	CRL	
24	XLC338	JAMB CAP	2.75 X 1.925 X .063	5005-H32 ALUMINUM	CRL	
25	XL500	MULLION	2.50 X 5.00 X .094	6063-T6 ALUMINUM	CRL	
26	XL501	HEAD	2.50 X 5.203 X .094	6063-T6 ALUMINUM	CRL	
27	XL502	SILL	2.50 X 5.203 X .094	6063-T6 ALUMINUM	CRL	
28	XL510	HEAVY MULLION	2.50 X 5.234 X .250	6063-T6 ALUMINUM	CRL	
28A	XL504	HEAVY MULLION	2.50 X 5.234 X .250	6063-T6 ALUMINUM	CRL	
29	XL532	ROLL OVER HORIZONTAL	2.50 X 5.203 X .094	6063-T6 ALUMINUM	CRL	
30	XL533	ROLL UNDER HORIZONTAL	2.50 X 5.203 X .094	6063-T6 ALUMINUM	CRL	
31	XL538	EXPANSION HORIZONTAL	1.625 X 6.729 X .094	6063-T6 ALUMINUM	CRL	
32	XLA10301	"F" ANCHOR (JAMB MULLION)	6.250 X 2.869 X .25 X 4.062	6063-T6 ALUMINUM	CRL	NOTE 2
33	XLA10501	"T" ANCHOR (STD & DOOR JAMB MULLION)	6.250 X 2.869 X .25 X 4.062	6063-T6 ALUMINUM	CRL	NOTE 3
34	XLA10502	"T" ANCHOR (CORNER MULLION)	7.50 X 2.869 X .25 X 4.061	6063-T6 ALUMINUM	CRL	SEE DETAIL
35	XLA17401	"L" ANCHOR (STANDARD & JAMB MULLION)	3.50 X 6.0 X .25 X 4.062	6063-T6 ALUMINUM	CRL	NOTE 2
36	XLB18001	SHEAR BLOCK	3.508 X 2.272 X .50	6063-T6 ALUMINUM	CRL	
37	XLB18002	SHEAR BLOCK	3.508 X 2.272 X .50	6063-T6 ALUMINUM	CRL	
38	XL18003	SHEAR BLOCK	3.508 X 2.272 X .50	6063-T6 ALUMINUM	CRL	
39	XLB18301	SHEAR BLOCK	2.827 X 2.272 X .125	6063-T6 ALUMINUM	CRL	
40	XLB18401	SHEAR BLOCK	3.153 X 1.397 X .125	6063-T6 ALUMINUM	CRL	

ITEM #	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL	MFR.	NOTES
41	XLS19101	CORNER SPLICE	5.557 X 1.125 X 8.00 X .126	6063-T6 ALUMINUM	CRL	
42	XLS19401	JAMB & STANDARD MULLION SPLICE	4.950 X 1.125 X 8.00 X .125	6063-T6 ALUMINUM	CRL	
43	XLS20001	STANDARD MULL ANCHOR SLEEVE	2.282 X 4.953 X 2.50 X .125	6063-T6 ALUMINUM	CRL	
44	XLS20101	HEAVY MULL ANCHOR SLEEVE	2.282 X 4.675 X 2.50 X .125	6063-T6 ALUMINUM	CRL	
45	XL20102	HEAVY MULL SPLICE	2.282 X 4.675 X 8.00 X .125	6063-T6 ALUMINUM	CRL	
46	XLBR15	REINFORCEMENT STEEL	.50 X 4.00	ASTM A-36	CRL	NOTE 4
46A	XLBR17	REINFORCEMENT STEEL	.75 X 4.0	ASTM A-36	CRL	NOTE 4
47	XLBR25	REINFORCEMENT STEEL	1.875 X 4.721 X .25	ASTM A-36	CRL	NOTE 4
48	XL110	FACE CAP	.50 X 2.50 X .050	6063-T6 ALUMINUM	CRL	
49	XL162	PRESSURE PLATE	.442 X 2.394 X .094	6063-T6 ALUMINUM	CRL	
50	XL224	COVER	2.50 X 2.190 X .078	6063-T6 ALUMINUM	CRL	
51	XL237	FILLER	.204 X 4.905 X .080	6063-T6 ALUMINUM	CRL	
52	XLD352	ZONE PLUG	1.056 X 1.675 X .75	ABS PLASTIC	CHARLOMA	
53	795	PERIMETER SEAL		SILICONE	DOW CORNING	
54	SCS2000	PERIMETER SEAL		SILICONE	GE	
55	995	POCKET SEAL		SILICONE	DOW CORNING	
56	SSG4800	POCKET SEAL		SILICONE	GE	
57	FASTENERS	MID POINT ANCHOR AT MULLIONS	5/8-18 X 4 1/2" HH	GRADE 5 ZINC PLATED	VARIES	
58	FASTENERS	MID POINT ANCHOR AT MULLIONS	5/8-18 X NUTS	GRADE 5 ZINC PLATED	VARIES	
59	FASTENERS	MID POINT ANCHOR AT JAMBS	5/8-18 X 1 3/4" HH FN THRD	GRADE 5 ZINC PLATED	VARIES	
60	XL10801 "U" ANCHOR	AT DOOR JAMB MULLION & AT JAMB MULLION AT DOOR w/ NON SIDELITE & OPTIONAL AT JAMB MULLION	2.875 X 1.468 X 0.25 X 4.062	6063-T6 ALUMINUM	CRL	USE ONLY AT BOT.
62	IG510	DOOR JAMB / HEADER	0.812" X 5.00" X .095"	6063-T6 ALUMINUM	CRL	
64	IG047	DOOR STOP	0.704" X 1.762" X .075"	6063-T6 ALUMINUM	CRL	
65	IG046	DOOR STOP	0.575" X 1.187" X .05"	6063-T6 ALUMINUM	CRL	
67	TH811	THRESHOLD		6063-T6 ALUMINUM	CRL	
68	NP801	WEATHERSTRIP		EPDM 80 DUROMETER	EPG	
69	NP811	GASKET		EPDM 70 DUROMETER	EPG	
70	NP825	GASKET		EPDM 80 DUROMETER	EPG	
71	XLC358	ZONE BRIDGE		6063-T6 ALUMINUM	CRL	

NOTES:

NOTE 1: MIN. Fu = 124 ksi & Fy = 92 ksi

NOTE 2: USE TOP & BOTTOM

NOTE 3: TOP & BOTTOM AT STD MULLION  
TOP AT DOOR JAMB MULLION

NOTE 4: ZINC PLATED STEEL

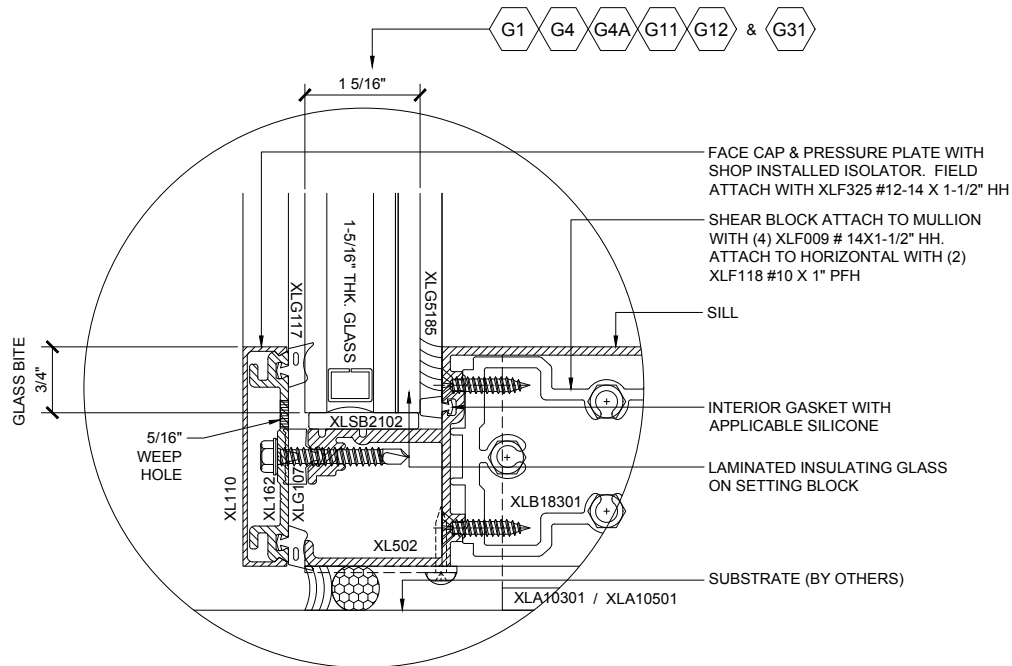
Revisions By:



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STORM WALL XL  
HURRICANE RESISTANT  
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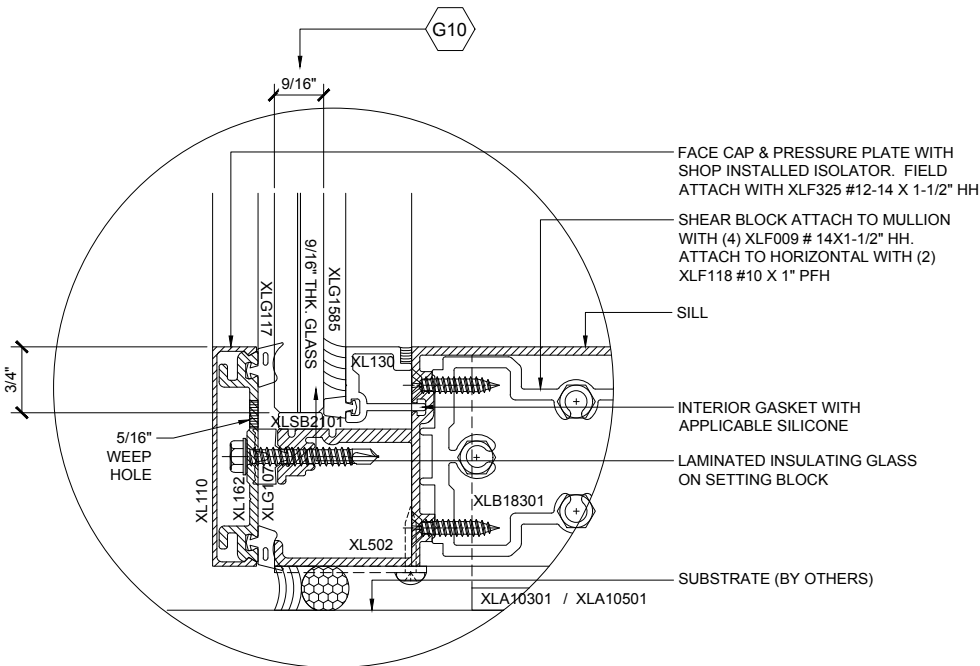
CURTAIN WALLS



INSULATED LAMINATED GLAZING DETAIL

INSULATED LAMINATED GLASS SCHEDULE				
GLASS LABEL	GLASS COMPOSITION	MANUF. NAME	MAX. D.L.O.	MISSILE TYPE
G1	1-5/16" INSULATED LAMINATED GLASS CONSISTING OF EXTERIOR 1/4" H.S. - 1/2" AIR SPACE - 1/4" H.S. - 0.090" BUTACITE PVB INTERLAYER - 1/4" H.S.	DUPONT	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT
G4	1-5/16" INSULATED LAMINATED GLASS CONSISTING OF EXTERIOR 1/4" H.S. - 1/2" AIR SPACE - 1/4" H.S. - 0.090" SENTRYGLAS IONOPLAST INTERLAYER - 1/4" H.S.	DUPONT	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT
G4A	1-5/16" INSULATED LAMINATED GLASS CONSISTING OF EXTERIOR 1/4" TEMP. - 1/2" AIR SPACE - 1/4" H.S. - 0.090" SENTRYGLAS IONOPLAST INTERLAYER - 1/4" H.S.	DUPONT	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT
G11	1-5/16" INSULATED LAMINATED GLASS CONSISTING OF EXTERIOR 1/4" H.S. - 1/2" AIR SPACE - 1/4" H.S. - SAFLEX CP SAFLEX & SAFLEX HP COMPOSITE GLASS INTERLAYERS w/ PET CORE - 1/4" H.S.	EASTMAN CHEMICAL COMPANY	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT
G12	1-5/16" INSULATED LAMINATED GLASS CONSISTING OF EXTERIOR 1/4" TEMP. - 1/2" AIR SPACE - 1/4" H.S. - SAFLEX CP SAFLEX & SAFLEX HP COMPOSITE GLASS INTERLAYERS w/ PET CORE - 1/4" H.S.	EASTMAN CHEMICAL COMPANY	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT
G31	1-5/16" INSULATED LAMINATED GLASS CONSISTING OF EXTERIOR 1/4" H.S. - 1/2" AIR SPACE - 1/4" H.S. - SAFLEX CLEAR AND COLOR GLASS INTERLAYERS - 1/4" H.S.	EASTMAN CHEMICAL COMPANY	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT

StormWall XL  
IMPACT - RESISTANT CURTAIN WALL SYSTEM



MONOLITHIC LAMINATED SPANDREL  
AREAS GLAZING DETAIL

MONOLITHIC LAMINATED GLASS SCHEDULE				
GLASS LABEL	GLASS COMPOSITION	MANUF. NAME	MAX. D.L.O.	MISSILE TYPE
G10	9/16" INSULATED LAMINATED GLASS CONSISTING OF EXTERIOR 1/4" H.S. - SAFLEX CP SAFLEX & SAFLEX HP COMPOSITE GLASS INTERLAYERS w/ PET CORE - 1/4" H.S.	EASTMAN CHEMICAL COMPANY	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT

STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

Revisions By:



CURTAIN WALLS

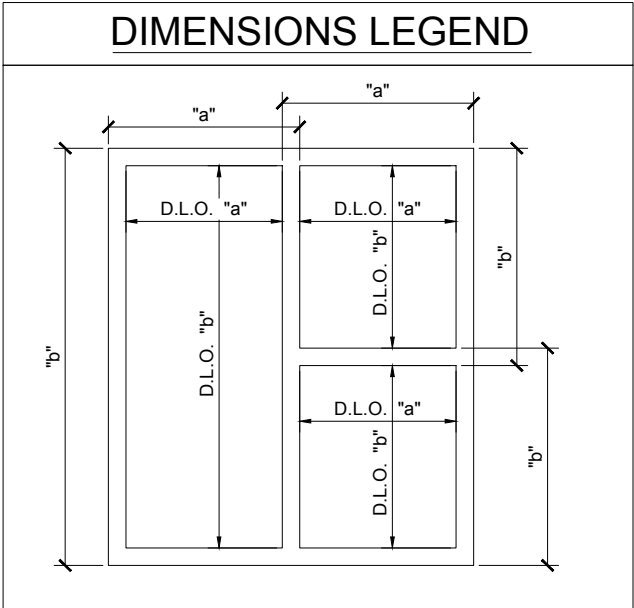
MAXIMUM FRAME WIDTH "a" AND FRAME LENGTH "b" VERSUS  
A.S.D. DESIGN PRESSURE RATING (psf) SCHEDULE

INSULATED LAMINATED GLASS <div>G1G31</div>		
DIMENSION "a"	DIMENSION "b"	MAX. A.S.D. DESIGN PRESSURE RATING (psf)
18" OR LESS *	FROM 18" TO 101"	± 100.0
24" OR LESS	FROM 24" TO 101"	± 100.0
30" OR LESS	FROM 30" TO 72"	± 100.0
30" OR LESS	FROM 30" TO 78"	± 99.5
30" OR LESS	FROM 30" TO 84"	± 97.8
30" OR LESS	FROM 30" TO 90"	± 96.4
30" OR LESS	FROM 30" TO 96"	± 95.2
30" OR LESS	FROM 30" TO 101"	± 94.4
36" OR LESS	FROM 36" TO 78"	± 86.7
36" OR LESS	FROM 36" TO 84"	± 85.2
36" OR LESS	FROM 36" TO 90"	± 83.7
36" OR LESS	FROM 36" TO 96"	± 82.4
36" OR LESS	FROM 36" TO 101"	± 81.5
42" OR LESS	FROM 42" TO 90"	± 74.3
42" OR LESS	FROM 42" TO 96"	± 73.5
42" OR LESS	FROM 42" TO 101"	± 72.5
48" OR LESS	FROM 48" TO 101"	± 65.0
54" OR LESS	FROM 54" TO 93"	± 57.8
57.5" OR LESS	FROM 57.5" TO 88"	± 54.3
60" OR LESS	FROM 60" TO 84"	± 52.0
62.5" OR LESS	FROM 62.5" TO 81"	± 49.9
66" OR LESS	FROM 66" TO 76"	± 47.3

\* MIN. a = 20 3/4" FOR b / a EQUAL OR GREATER THAN 5.0 @ HEAD & SILL AND  
MIN. a = 28 5/8" FOR b / c EQUAL OR GREATER THAN 5.0 @ JAMBS & MULLIONS

INSULATED LAMINATED GLASS <div>G4G4AG11G12</div>		
DIMENSION "a"	DIMENSION "b"	MAX. A.S.D. DESIGN PRESSURE RATING (psf)
18" OR LESS *	FROM 18" TO 101"	± 100.0
24" OR LESS	FROM 24" TO 101"	± 100.0
30" OR LESS	FROM 30" TO 101"	± 100.0
36" OR LESS	FROM 36" TO 101"	± 100.0
42" OR LESS	FROM 42" TO 101"	± 100.0
48" OR LESS	FROM 48" TO 101"	± 100.0
54" OR LESS	FROM 54" TO 101"	± 100.0
57.5" OR LESS	FROM 57.5" TO 101"	± 100.0
60" OR LESS	FROM 60" TO 101"	± 100.0
62.5" OR LESS	FROM 62.5" TO 101"	± 100.0
66" OR LESS	FROM 66" TO 95.64"	± 94.7
72" OR LESS	FROM 72" TO 87.67"	± 86.8
78" OR LESS	FROM 78" TO 80.92"	± 80.1

\* MIN. a = 20 3/4" FOR b / a EQUAL OR GREATER THAN 5.0 @ HEAD & SILL AND  
MIN. a = 28 5/8" FOR b / c EQUAL OR GREATER THAN 5.0 @ JAMBS & MULLIONS



INSULATED LAMINATED GLASS <div>G10</div>		
DIMENSION "a"	DIMENSION "b"	MAX. A.S.D. DESIGN PRESSURE RATING (psf)
18" OR LESS *	FROM 18" TO 101"	± 100.0
24" OR LESS	FROM 24" TO 101"	± 100.0
30" OR LESS	FROM 30" TO 101"	± 100.0
36" OR LESS	FROM 36" TO 101"	± 100.0
42" OR LESS	FROM 42" TO 101"	± 100.0
48" OR LESS	FROM 48" TO 101"	± 100.0
54" OR LESS	FROM 54" TO 101"	± 100.0
57.5" OR LESS	FROM 57.5" TO 101"	± 100.0
60" OR LESS	FROM 60" TO 101"	± 100.0
62.5" OR LESS	FROM 62.5" TO 101"	± 100.0
66" OR LESS	FROM 66" TO 95.64"	± 94.7
72" OR LESS	FROM 72" TO 87.67"	± 86.8
78" OR LESS	FROM 78" TO 80.93"	± 80.1

\* MIN. a = 20 3/4" FOR b / a EQUAL OR GREATER THAN 5.0 @ HEAD & SILL AND  
MIN. a = 28 5/8" FOR b / c EQUAL OR GREATER THAN 5.0 @ JAMBS & MULLIONS

DETERMINATION OF MAXIMUM DAY LIGHT  
OPENING (D.L.O.) AT EACH END OF GLASS  
GIVEN "a" & "b"

SIDE	MAX. DAY LIGHT OPENING
	(D.L.O.) FORMULA
MAX. D.L.O. (a) (SHORT SIDE)	"a" - 5.00"
MAX. D.L.O. (b) (LONG SIDE)	"b" - 5.00"

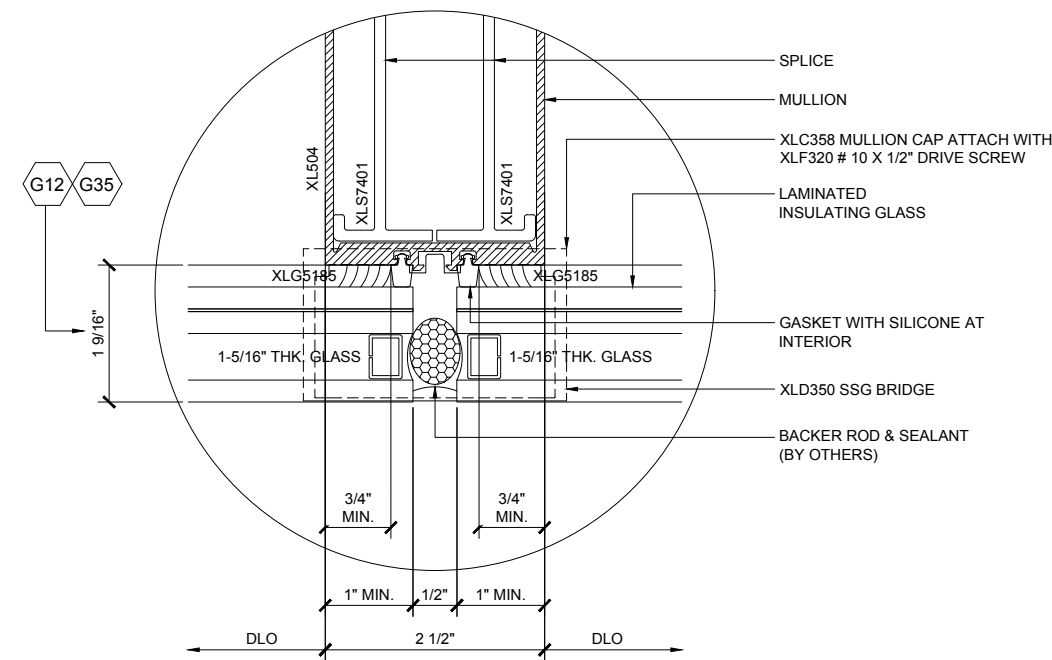
Revisions By:

U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD  
Date: 02/03/17  
Scale: AS NOTED  
File Name: StormWallXL.dwg  
Sheet

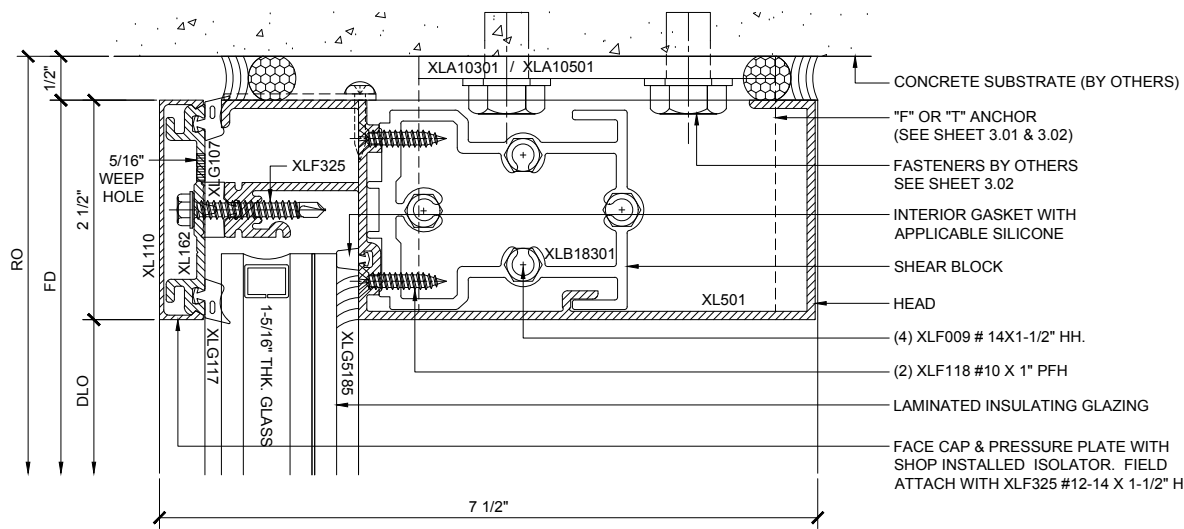
CURTAIN WALLS

StormWall XL  
IMPACT - RESISTANT CURTAIN WALL SYSTEM

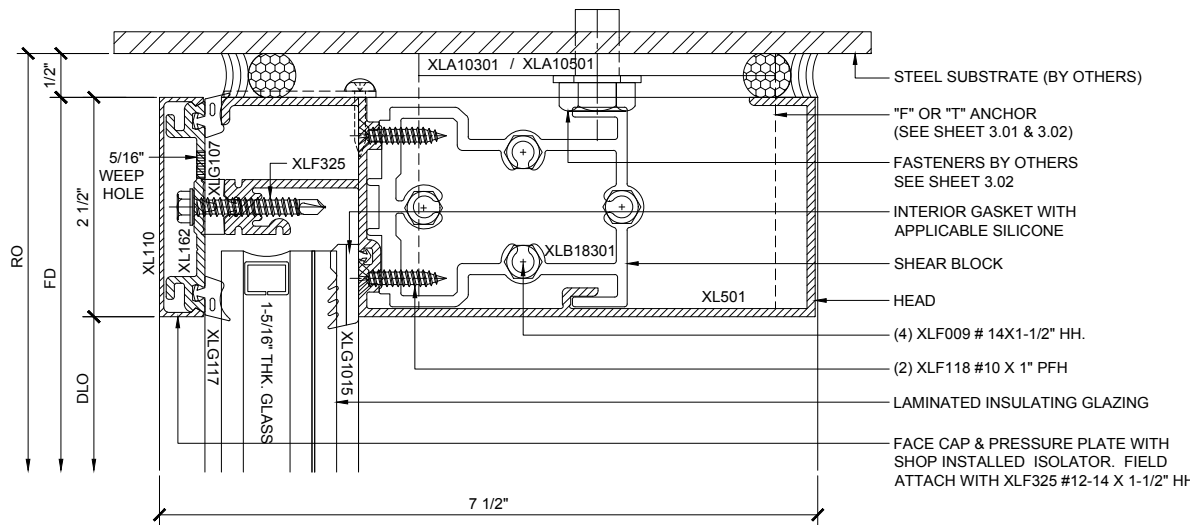


INSULATED LAMINATED GLAZING  
DETAIL AT STANDARD MULLIONS

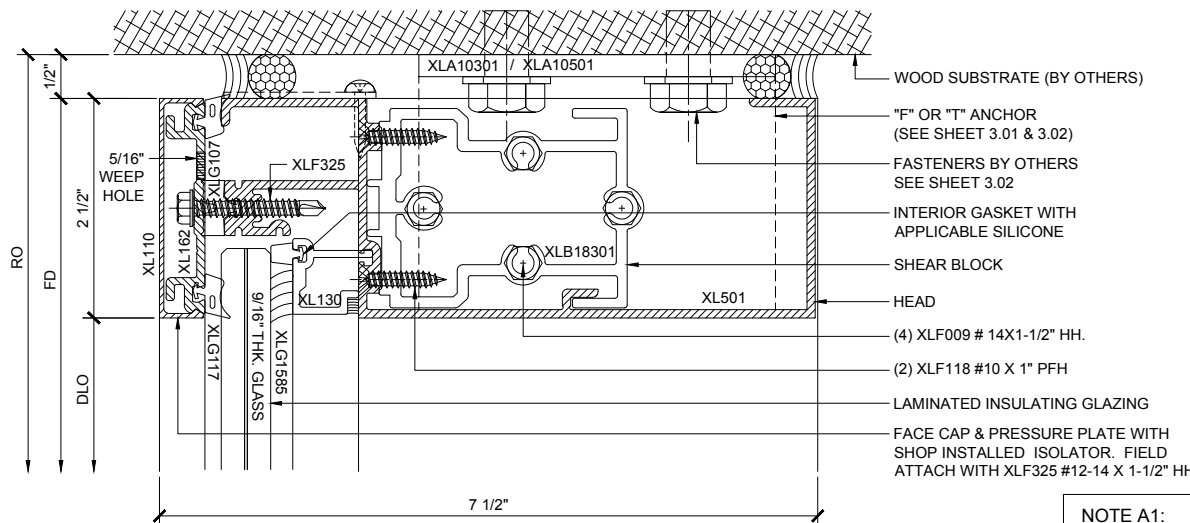
INSULATED LAMINATED GLASS SCHEDULE				
GLASS LABEL	GLASS COMPOSITION	MANUF. NAME	MAX. D.L.O.	MISSILE TYPE
G35	1-5/16" STORMGLASS INSULATED GLASS CONSISTING OF EXTERIOR 1/4" H.S. - 1/2" AIR SPACE - 1/4" SAFLEX CP - SAFLEX & SAFLEX HP COMPOSITE GLASS INTERLAYERS w/ PET CORE - 1/4" H.S.	EASTMAN CHEMICAL COMPANY	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT
G12	1-5/16" STORMGLASS INSULATED GLASS CONSISTING OF EXTERIOR 1/4" TEMP. - 1/2" AIR SPACE - 1/4" SAFLEX CP - SAFLEX & SAFLEX HP COMPOSITE GLASS INTERLAYERS w/ PET CORE - 1/4" H.S.	EASTMAN CHEMICAL COMPANY	SEE SCHEDULE ON SHEET 1.03	LARGE MISSILE IMPACT



**HEAD DETAIL (CONCRETE) (H1)**  
1-5/16" THK. GLASS / WET GLAZED

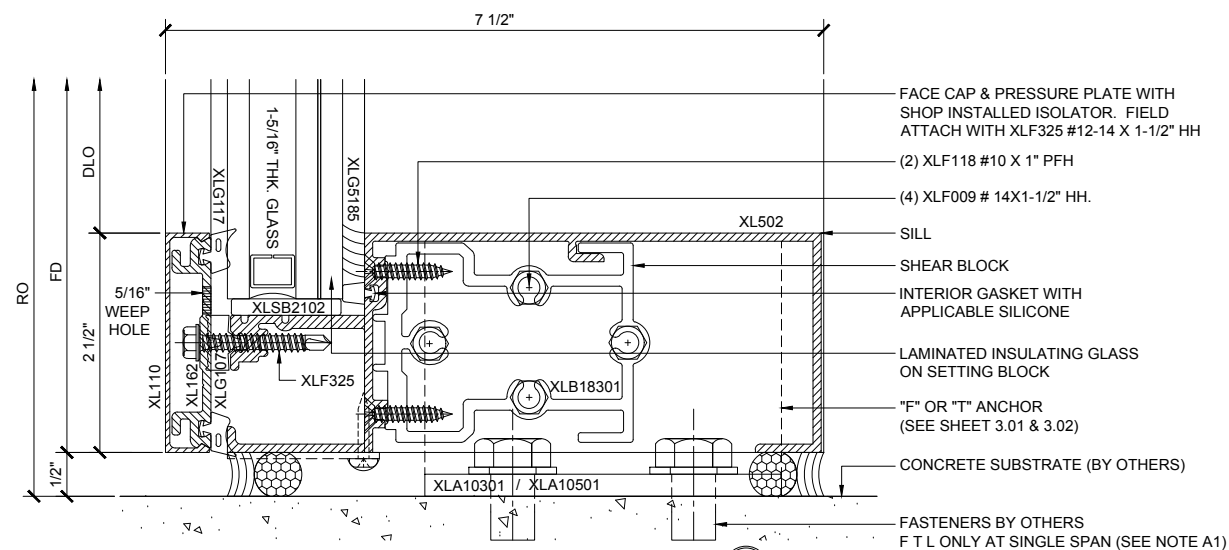


**HEAD DETAIL (STEEL) (H1A)**  
1-5/16" THK. GLASS / DRY GLAZED

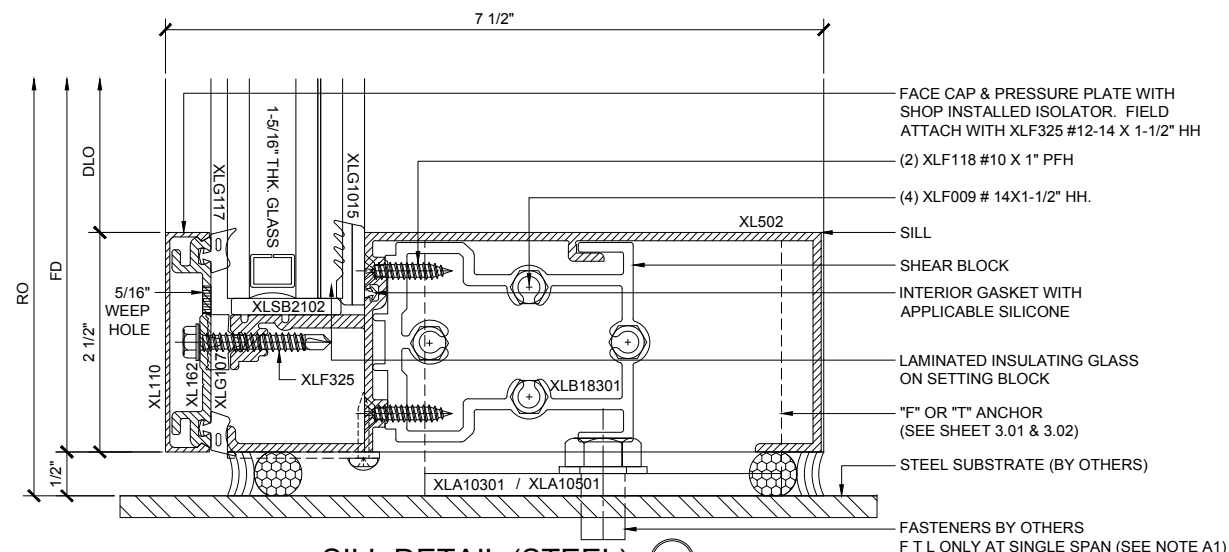


**HEAD DETAIL (WOOD) (H1B)**  
9/16" THK. GLASS / WET GLAZED

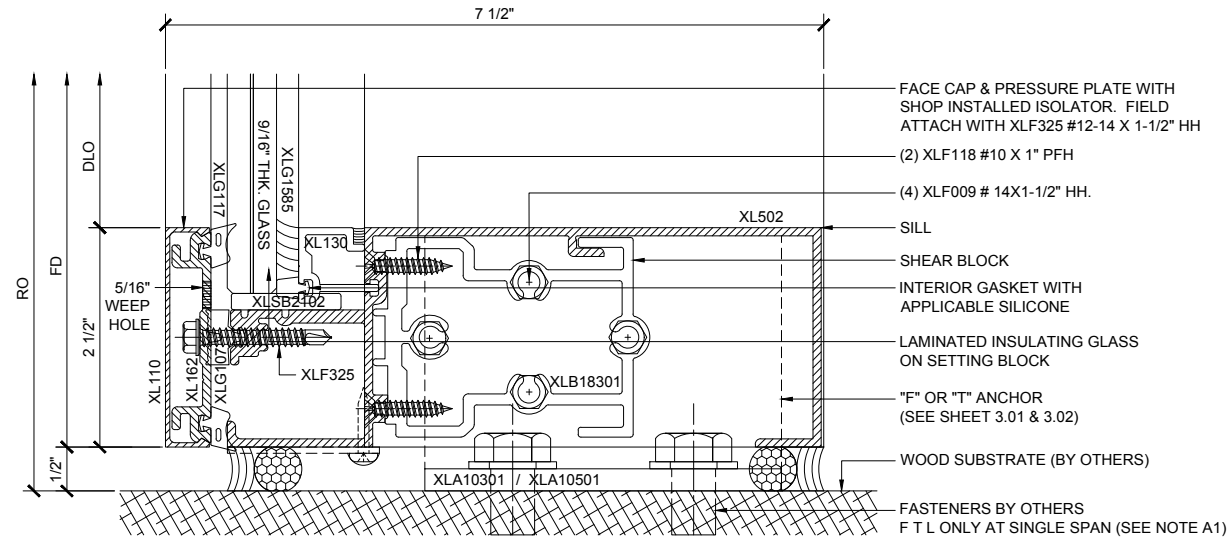
NOTE A1:  
L - XLA1740 SINGLE SPAN ONLY  
F - XLA 10301 - SLEEVE  
XLA 10302 - NO SLEEVE  
T - XLA10501 - SLEEVE  
XLA10502 - NO SLEEVE



**SILL DETAIL (CONCRETE) (H3)**  
1-5/16" THK. GLASS / WET GLAZED



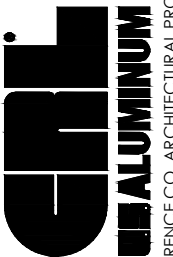
**SILL DETAIL (STEEL) (H3A)**  
1-5/16" THK. GLASS / DRY GLAZED



**SILL DETAIL (WOOD) (H3B)**  
9/16" THK. GLASS / WET GLAZED

# STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

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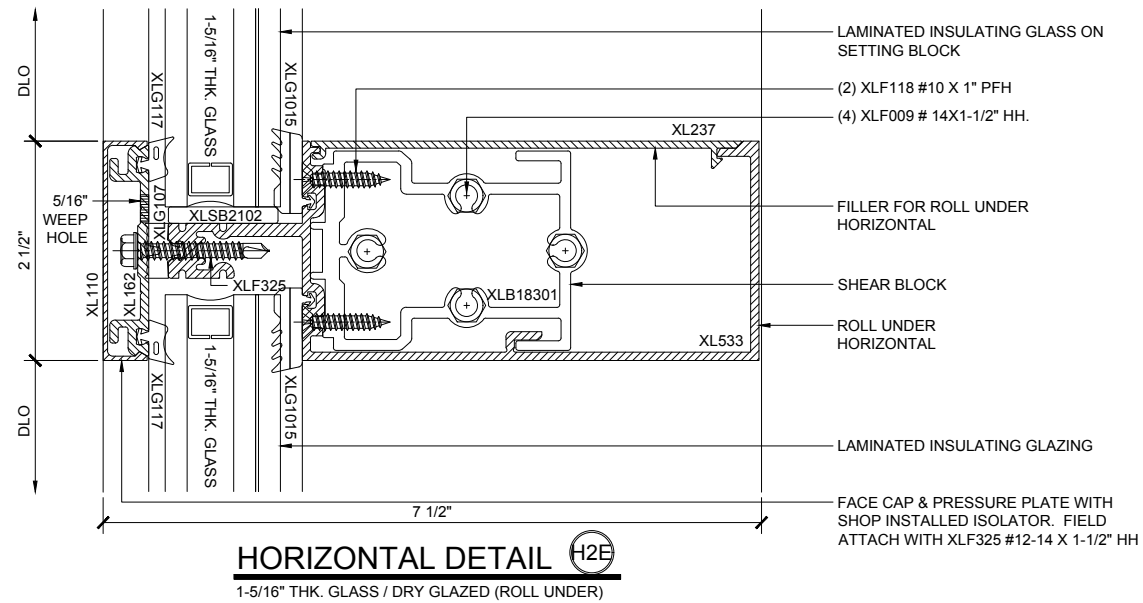
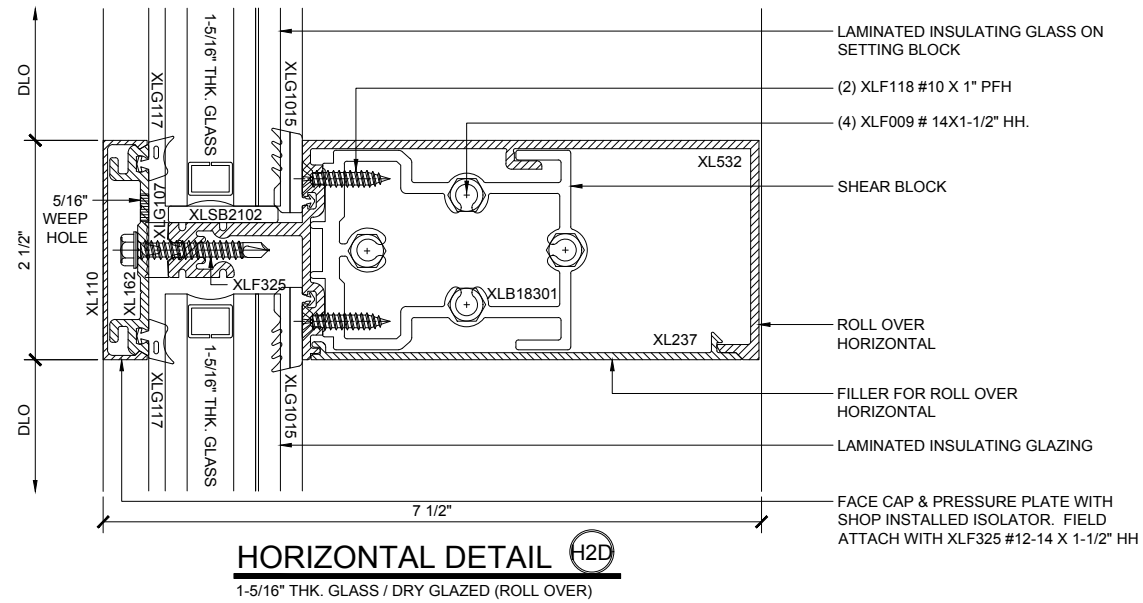
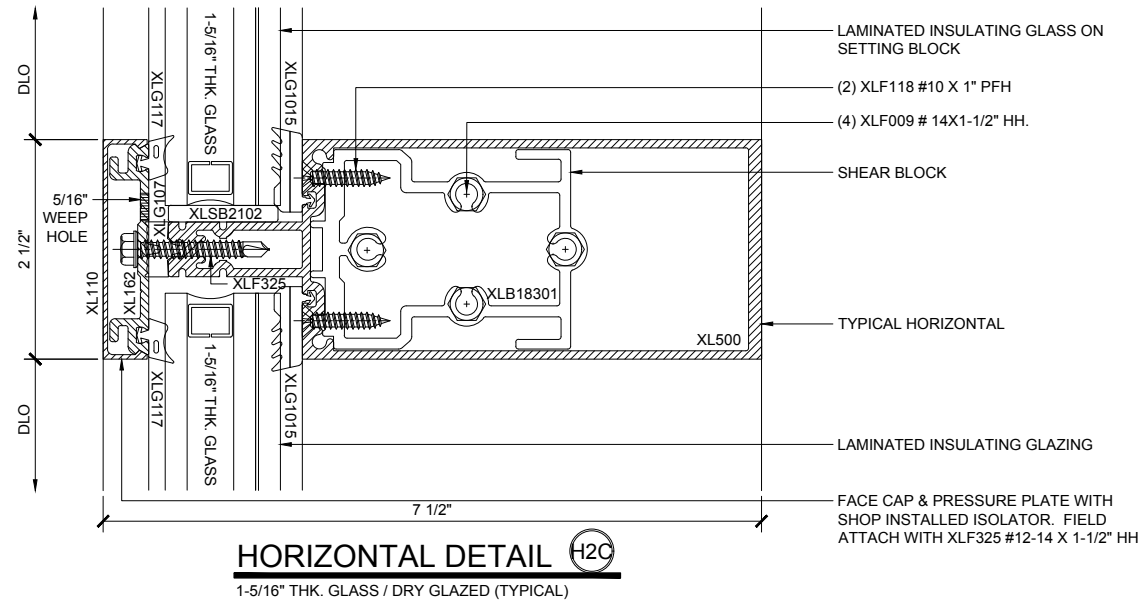
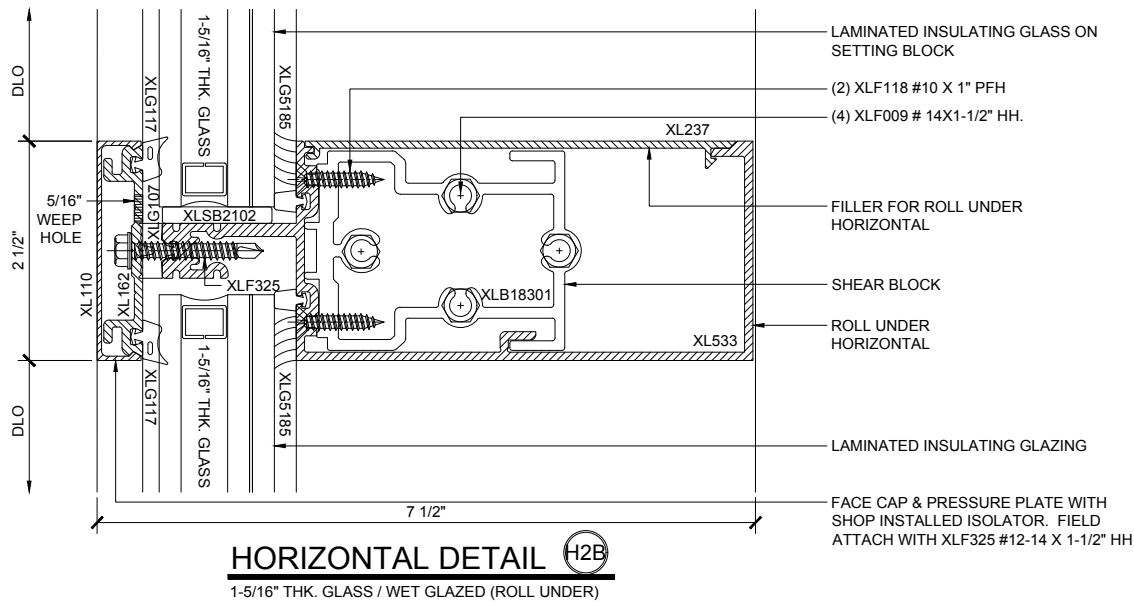
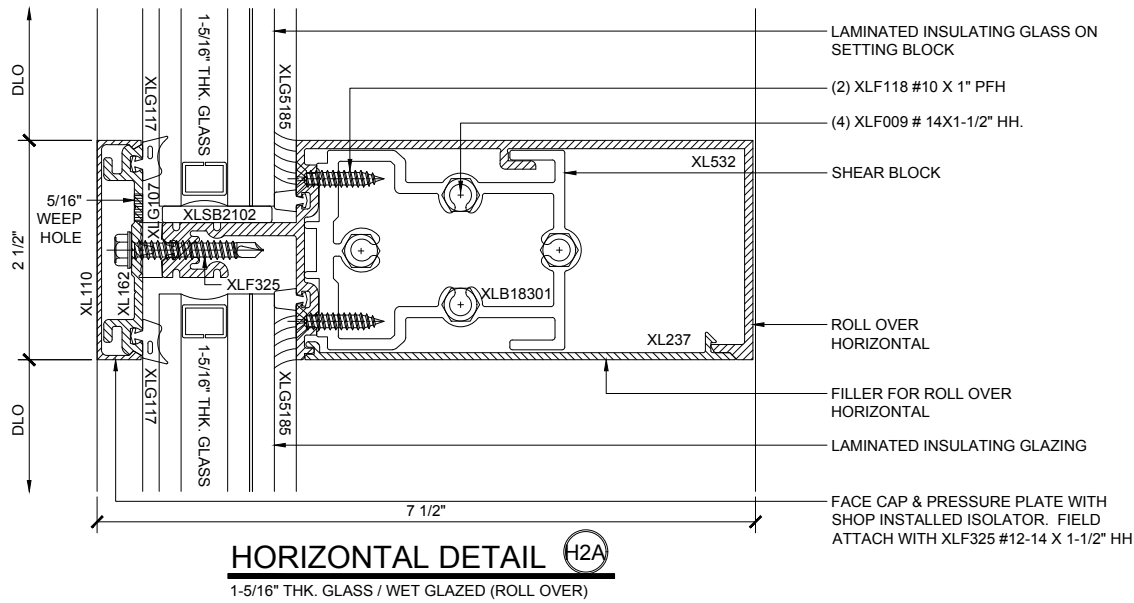
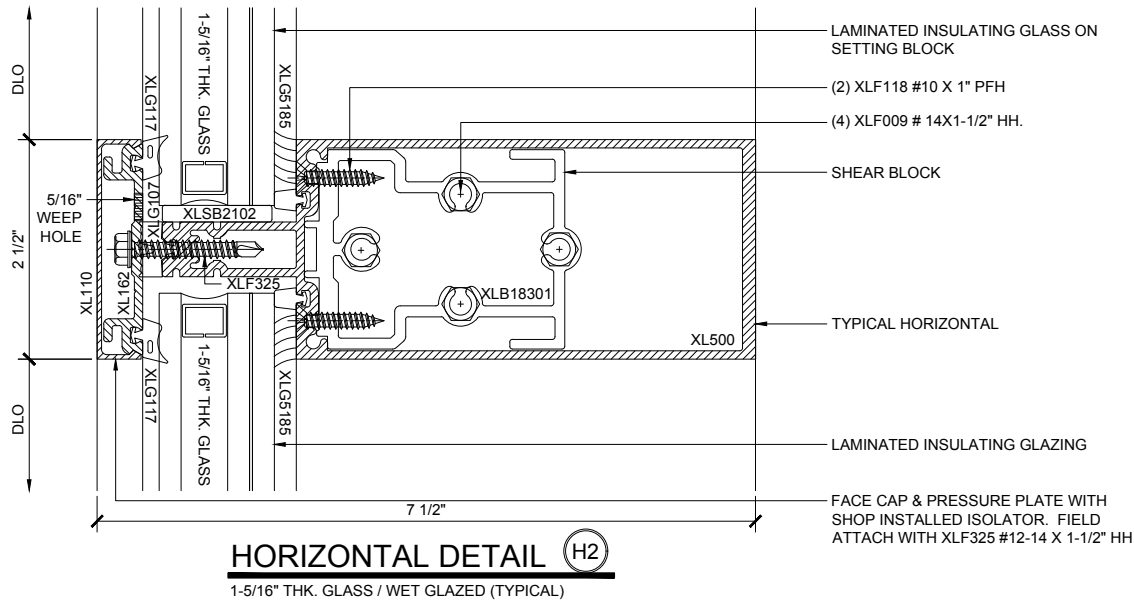


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U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

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Date: 02/03/17  
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## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

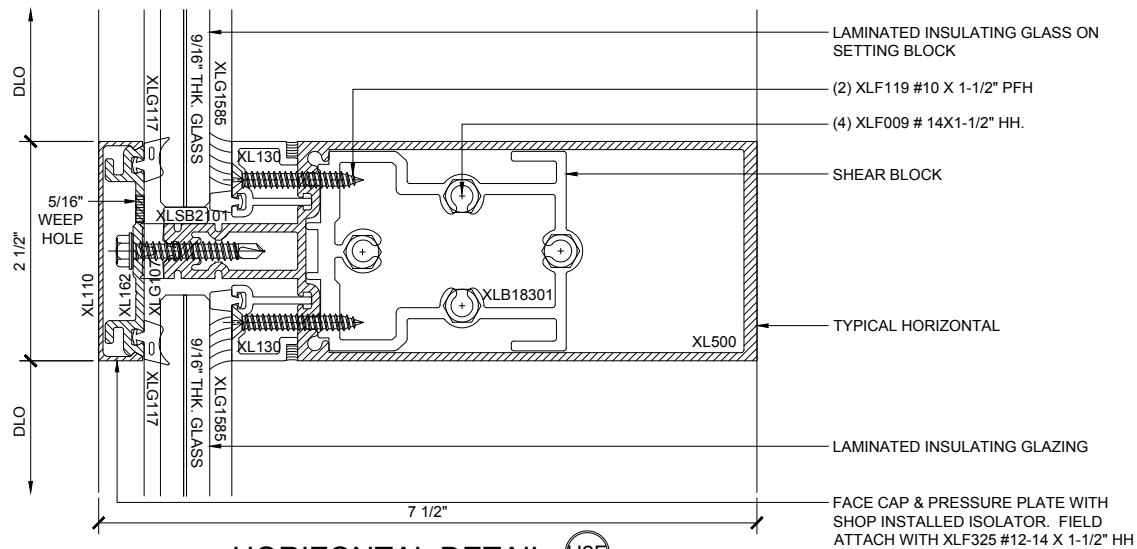
Revisions By:

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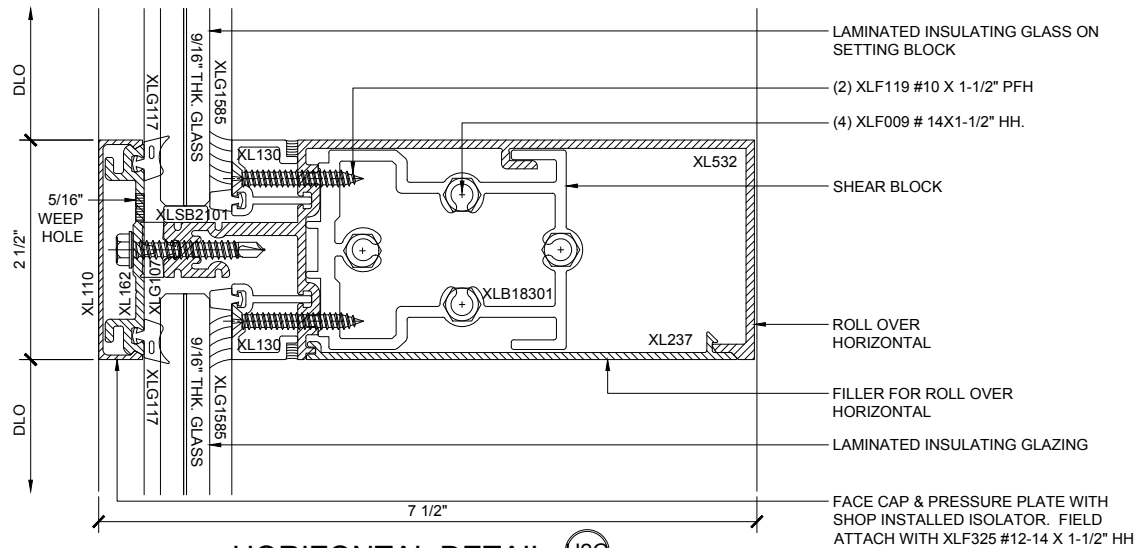
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD  
Date: 02/03/17  
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File Name: StormWallXL.dwg  
Sheet

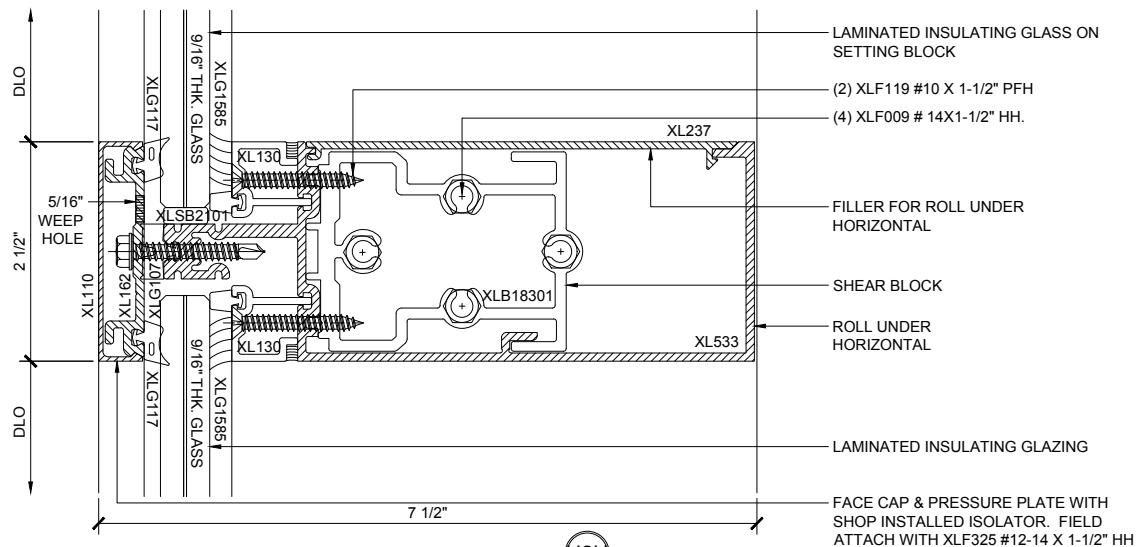
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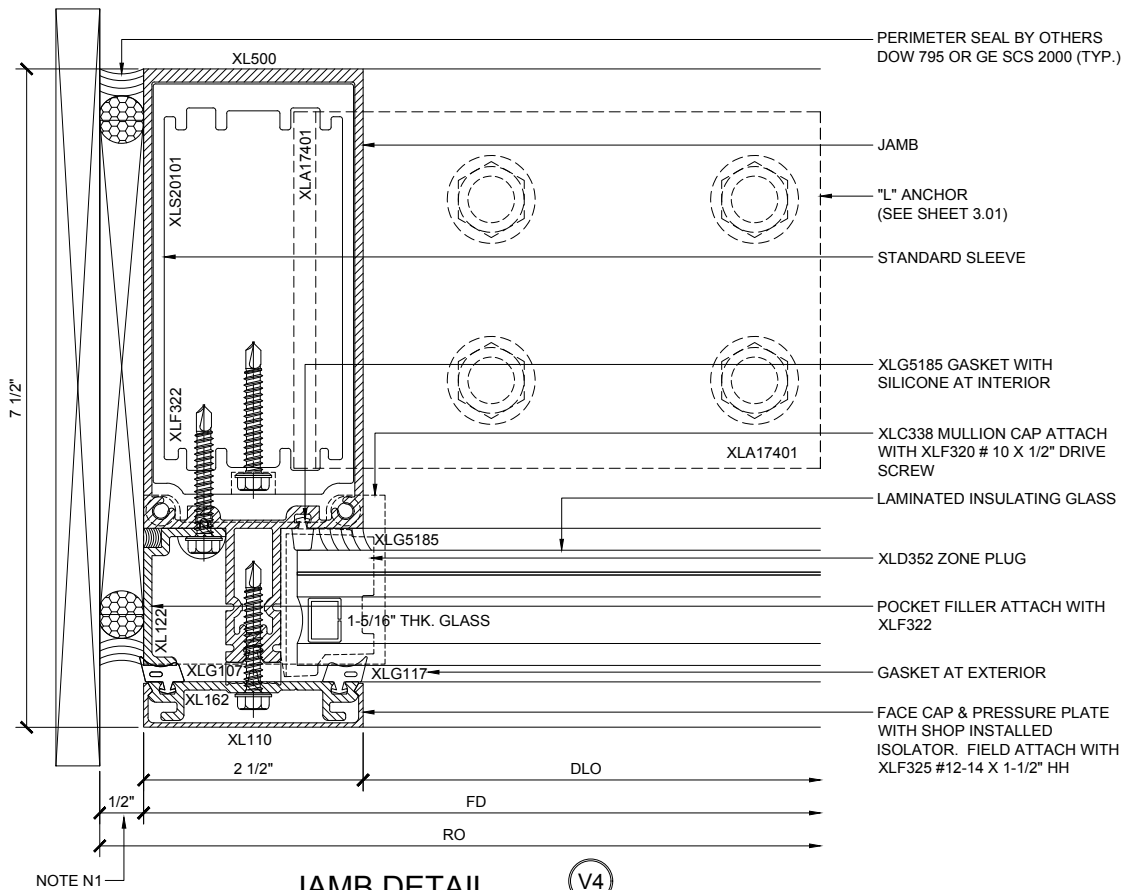
**HORIZONTAL DETAIL H2F**  
9/16" THK. GLASS / WET GLAZED (TYPICAL)



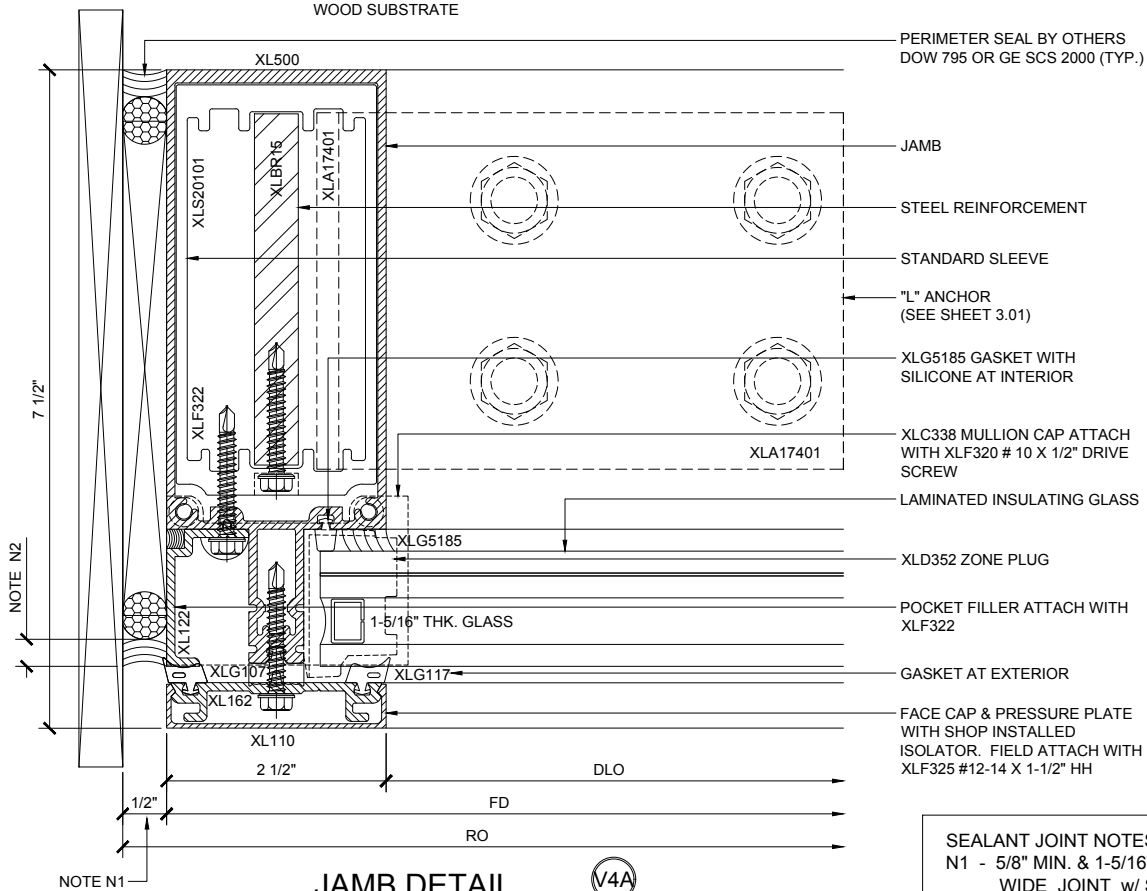
**HORIZONTAL DETAIL H2G**  
9/16" THK. GLASS / WET GLAZED (ROLL OVER)



**HORIZONTAL DETAIL H2H**  
9/16" THK. GLASS / WET GLAZED (ROLL UNDER)



**JAMB DETAIL V4**  
1-5/16" THK. GLASS / WET GLAZED /  
WOOD SUBSTRATE



**JAMB DETAIL V4A**  
1-5/16" THK. GLASS / WET GLAZED /  
WOOD SUBSTRATE

SEALANT JOINT NOTES:  
N1 - 5/8" MIN. & 1-5/16" MAX  
WIDE JOINT w/ SEALANT  
N2 - 1/4" MIN. & 3/8" MAX.  
DEPTH JOINT w/ SEALANT

## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

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CURTAIN WALL SYSTEM

Drawn By: RPD

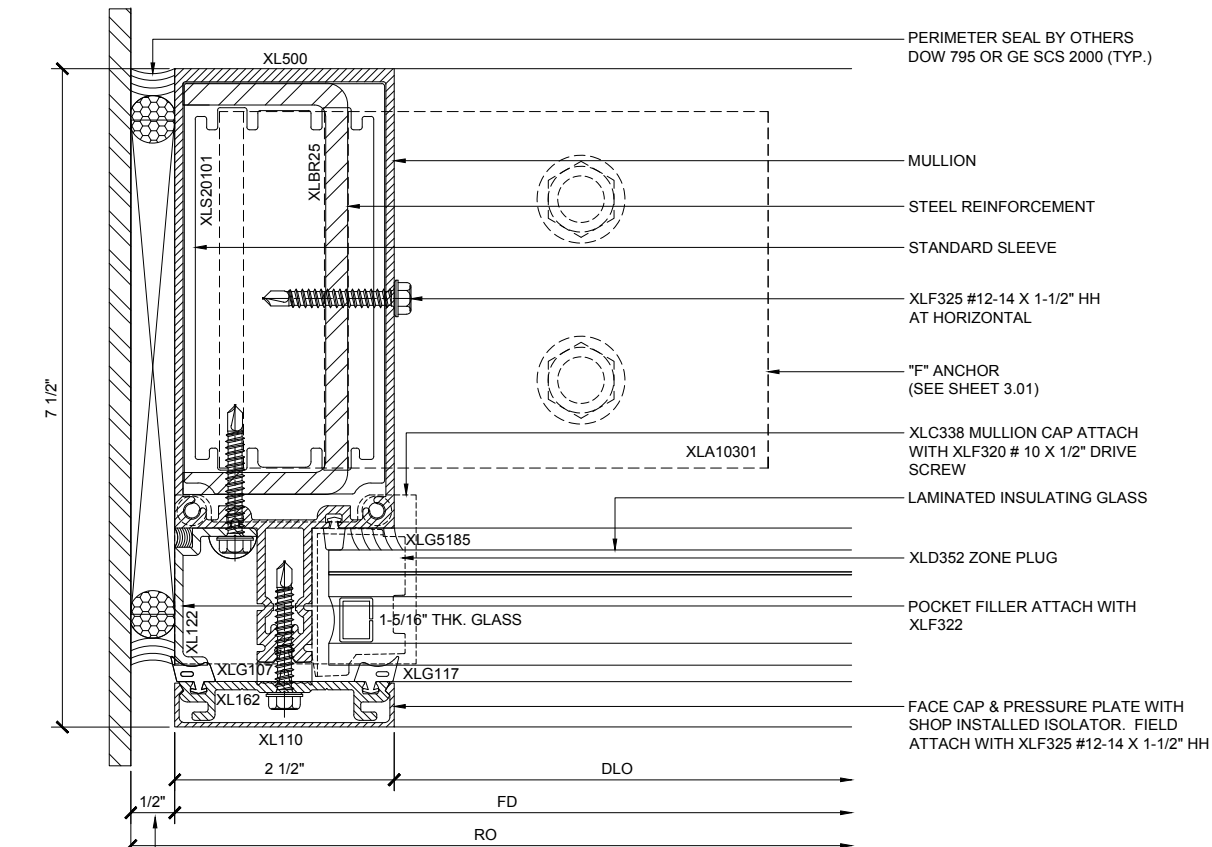
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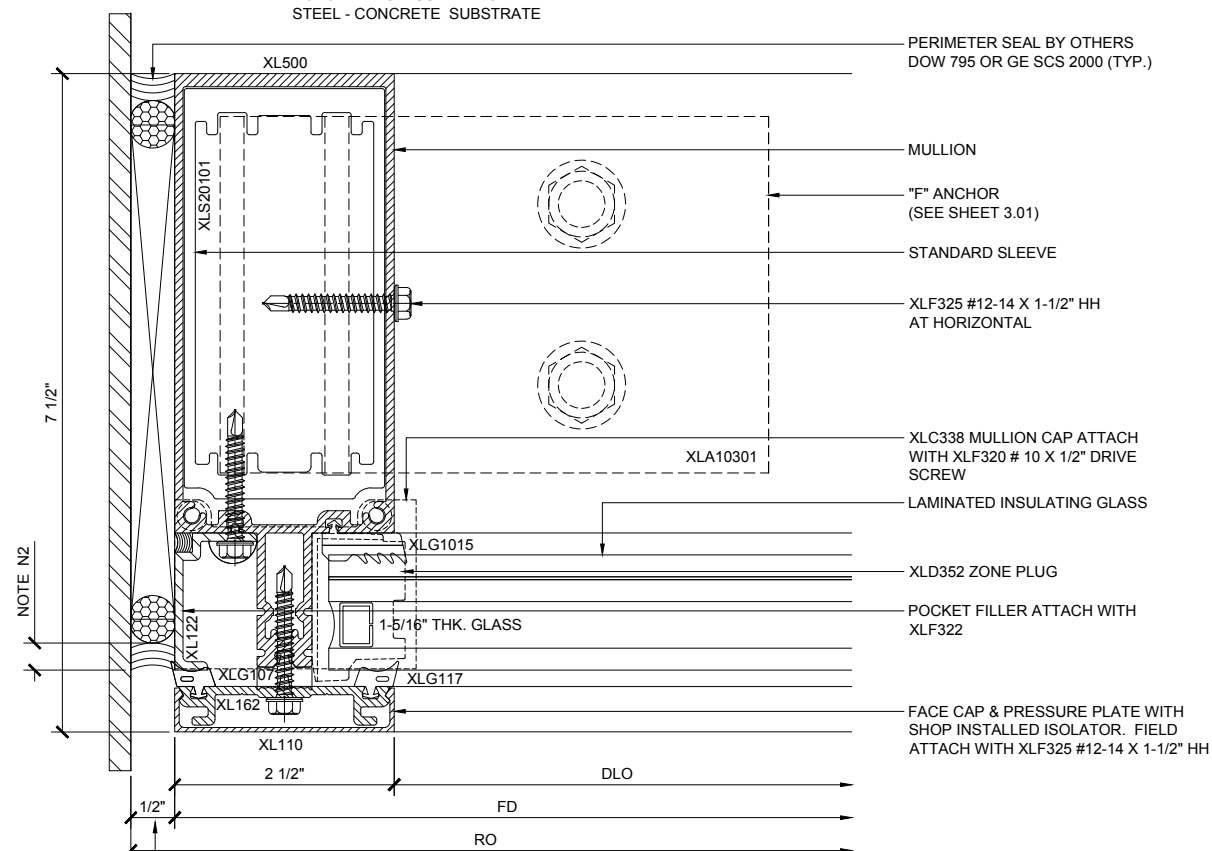
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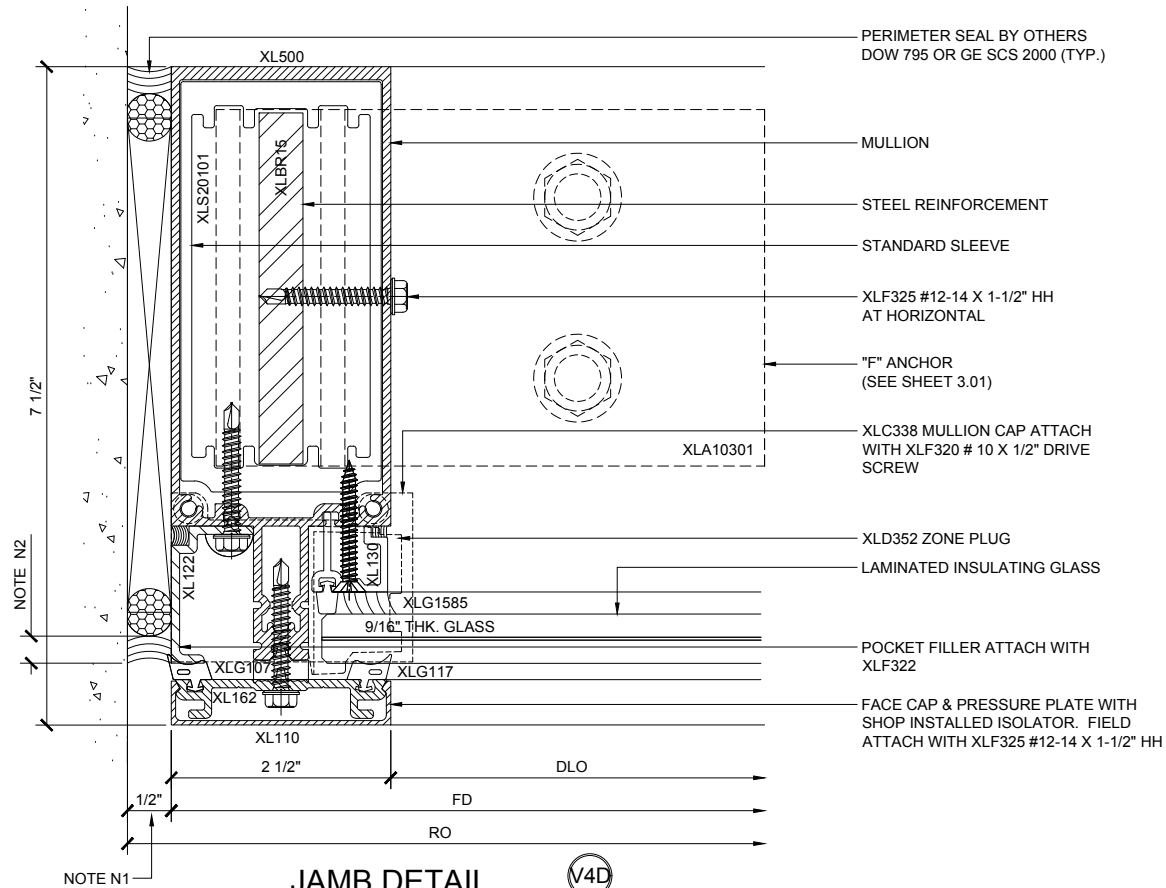
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**JAMB DETAIL** (V4B)  
1-5/16" THK. GLASS / WET GLAZED /  
STEEL - CONCRETE SUBSTRATE



**JAMB DETAIL** (V4C)  
1-5/16" THK. GLASS / DRY GLAZED /  
STEEL - CONCRETE SUBSTRATE



**JAMB DETAIL** (V4D)  
9/16" THK. GLASS / WET GLAZED /  
STEEL - CONCRETE SUBSTRATE

SEALANT JOINT NOTES:  
N1 - 5/8" MIN. & 1-5/16" MAX  
WIDE JOINT w/ SEALANT  
N2 - 1/4" MIN. & 3/8" MAX.  
DEPTH JOINT w/ SEALANT

## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

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Description:

U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD

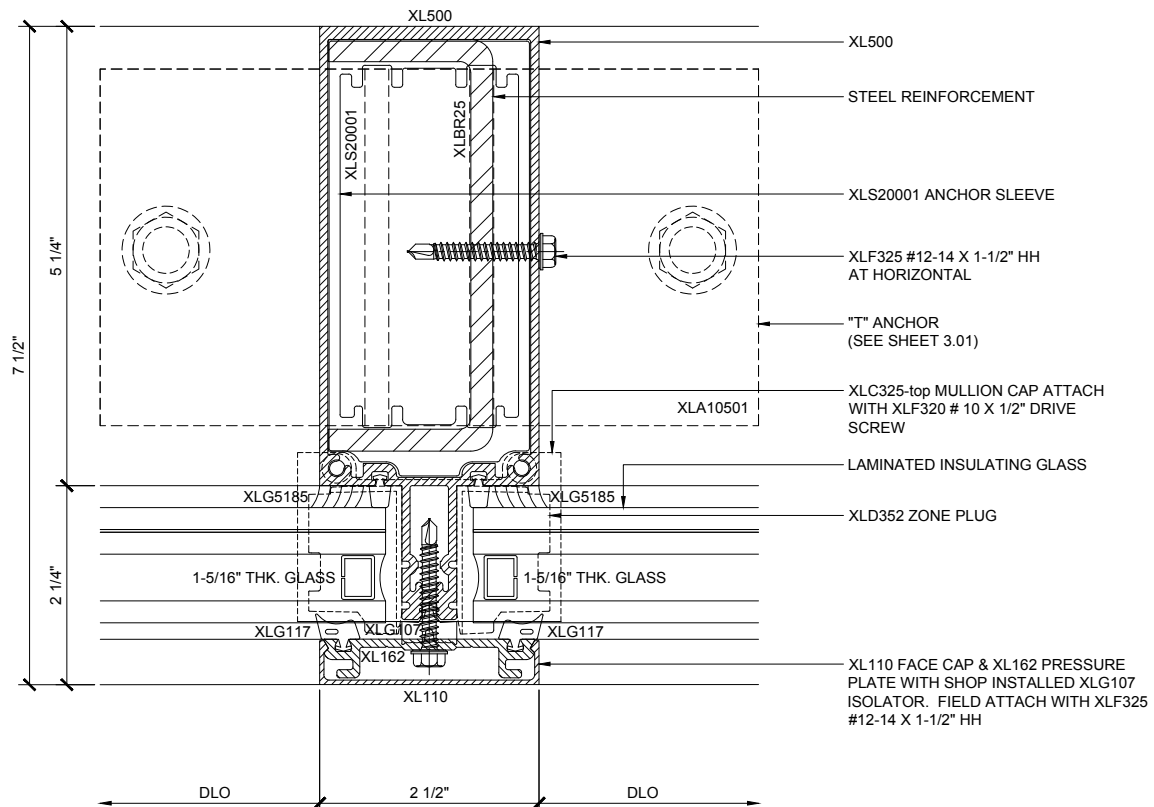
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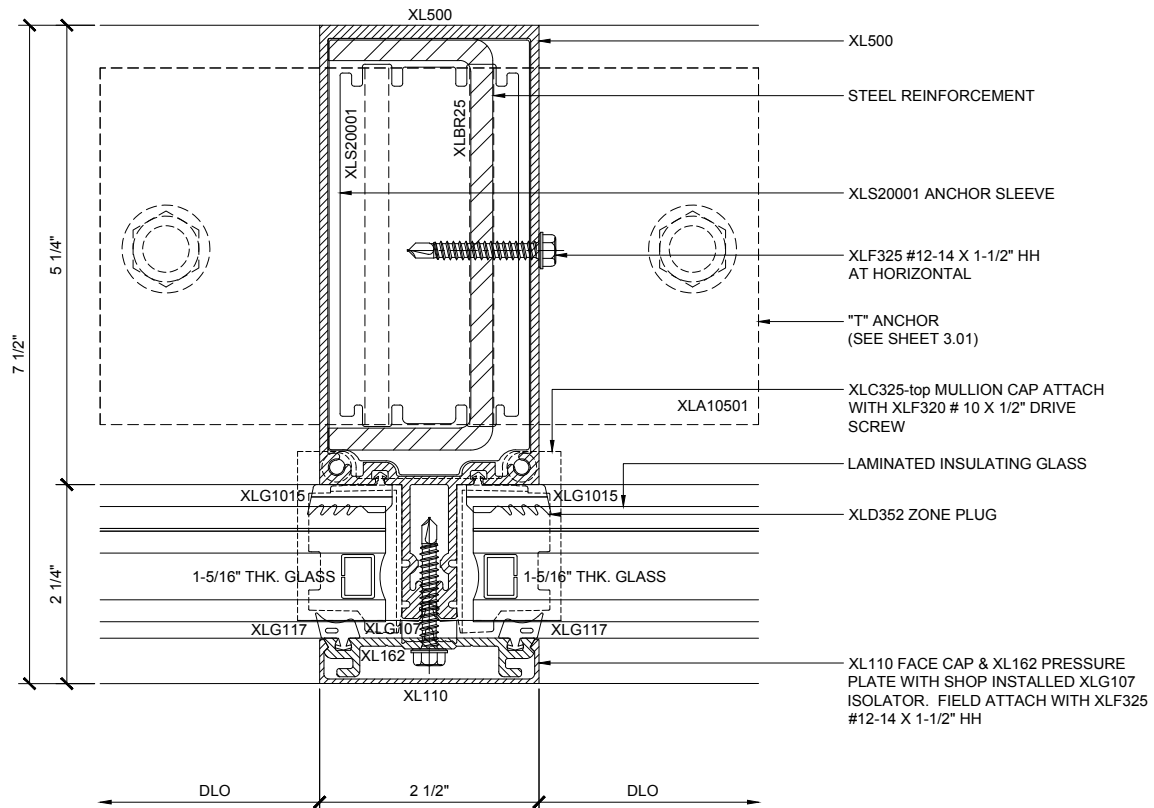
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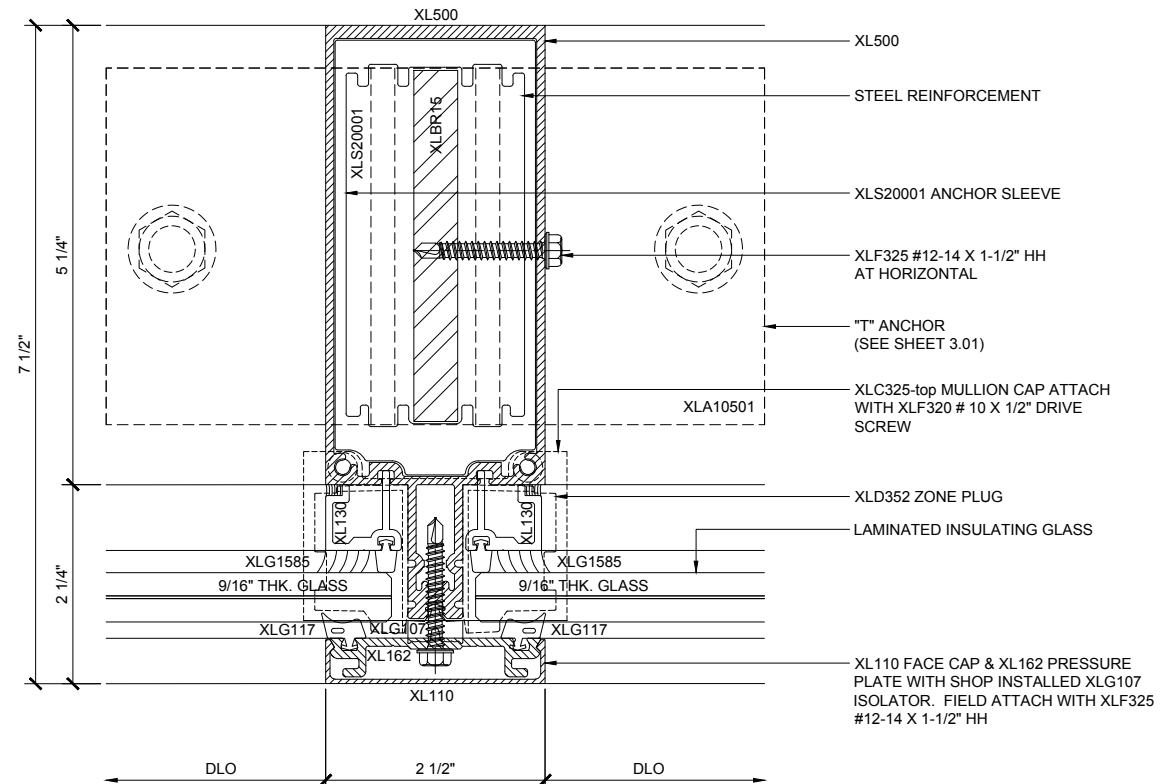
2.04



**MULLION DETAIL V5**  
 1-5/16" THK. GLASS / WET GLAZED /  
 STEEL - CONCRETE SUBSTRATE



**MULLION DETAIL V5A**  
 1-5/16" THK. GLASS / DRY GLAZED /  
 STEEL - CONCRETE SUBSTRATE



**MULLION DETAIL V5B**  
 9/16" THK. GLASS / WET GLAZED /  
 STEEL - CONCRETE SUBSTRATE

## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

Revisions By:

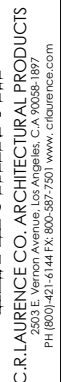


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Discription:  
 U.S. ALUMINUM  
 STORM WALL XL  
 HURRICANE RESISTANT  
 CURTAIN WALL SYSTEM

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 Scale: AS NOTED  
 File Name: StormWallXL.dwg  
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2.05

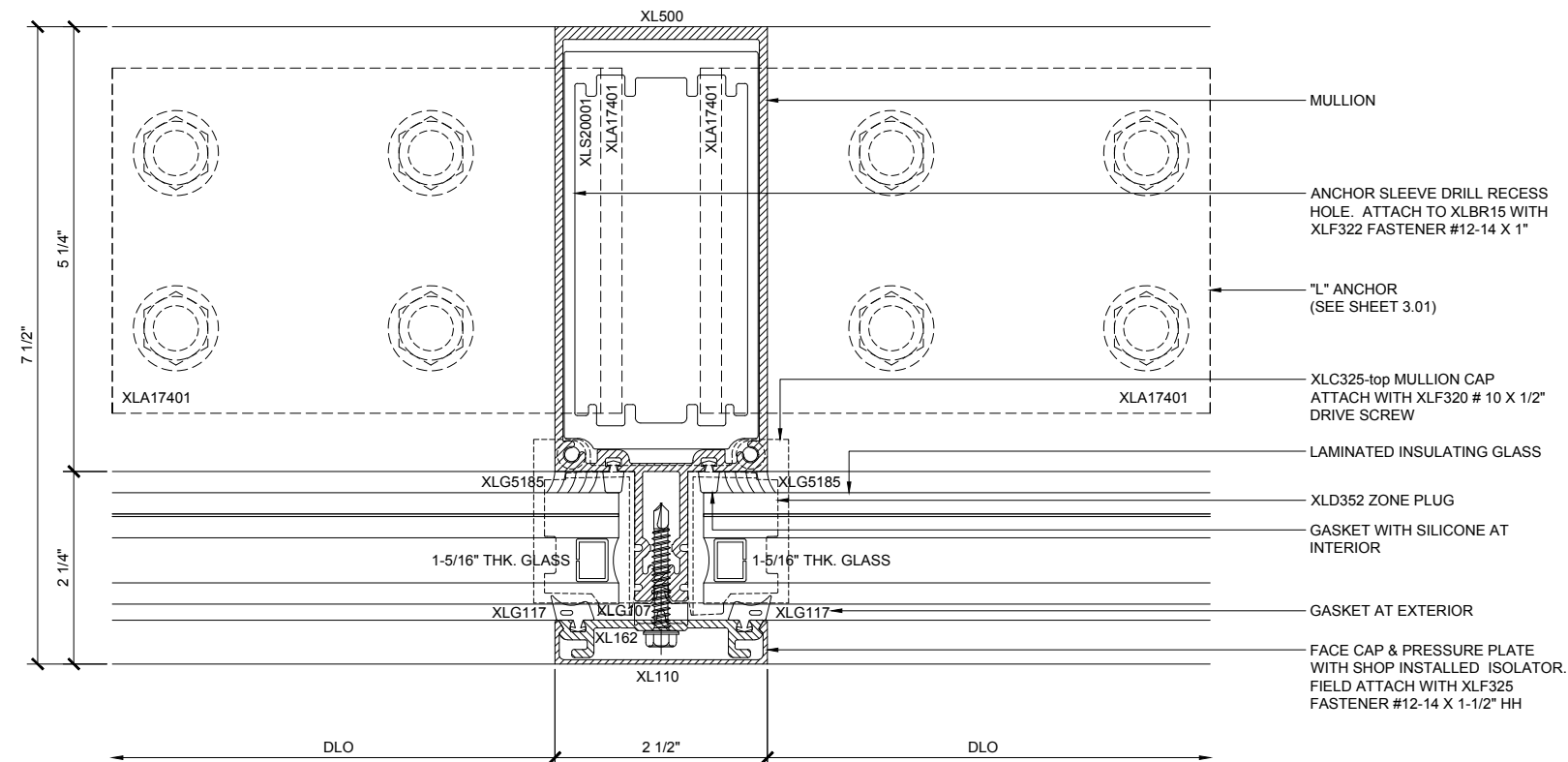



U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Sheet

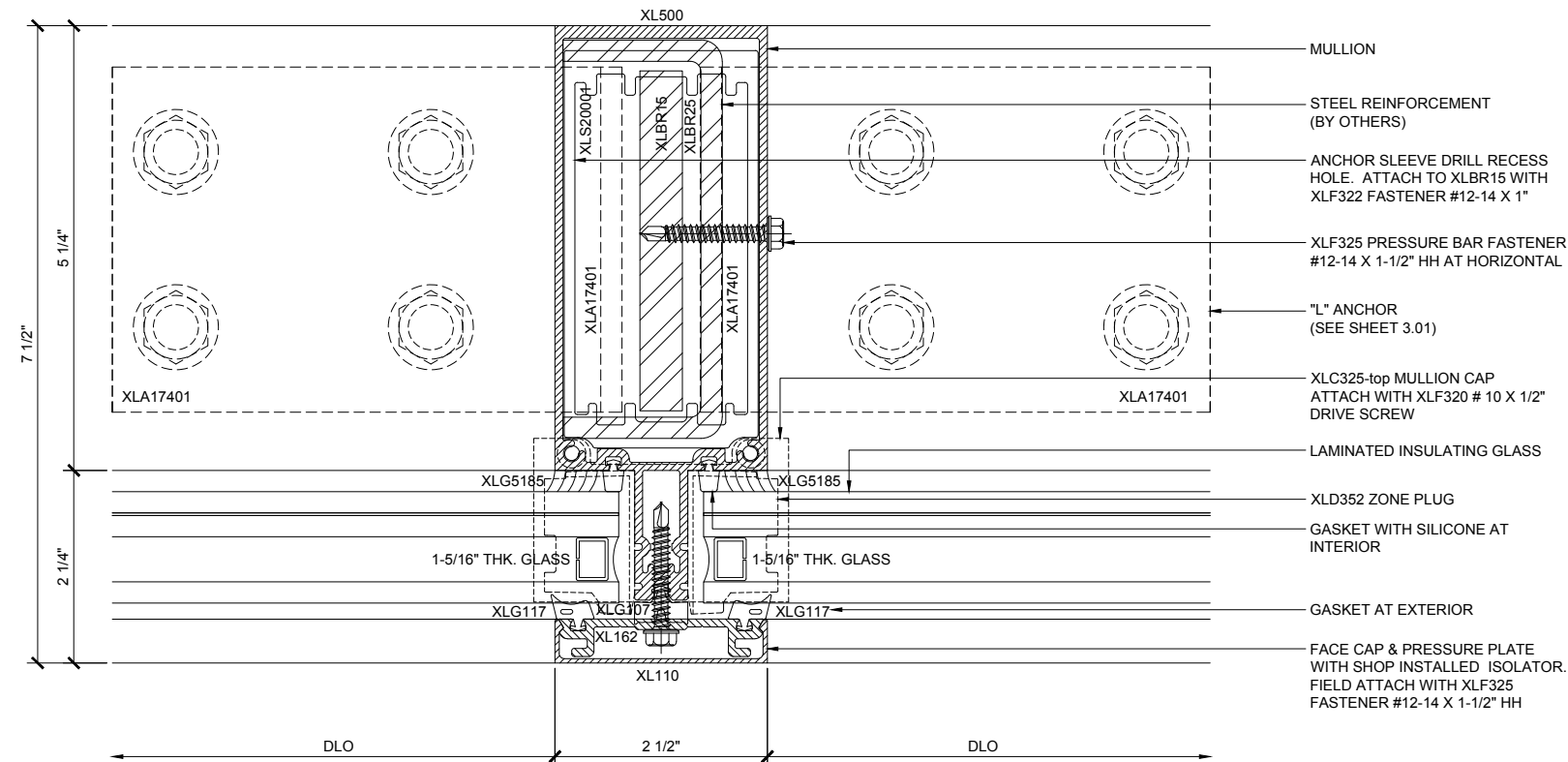
## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM





**MULLION DETAIL V5E** (SEE NOTE: A1 ON SHEET 2.01)

1-5/16" THK. GLASS / WET GLAZED / WOOD SUBSTRATE



**MULLION DETAIL V5F** (SEE NOTE: A1 ON SHEET 2.01)

1-5/16" THK. GLASS / WET GLAZED / WOOD SUBSTRATE

# STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

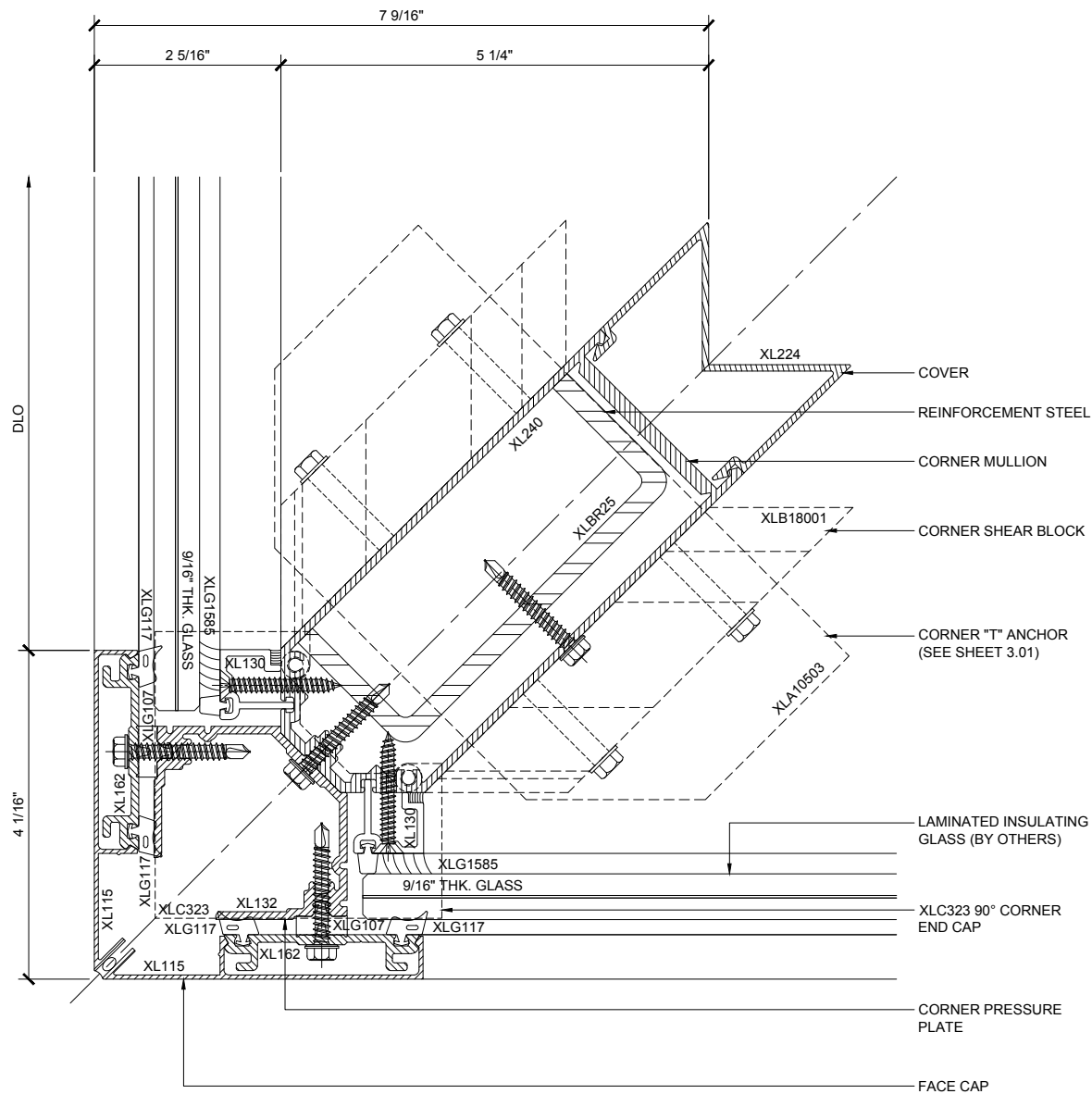
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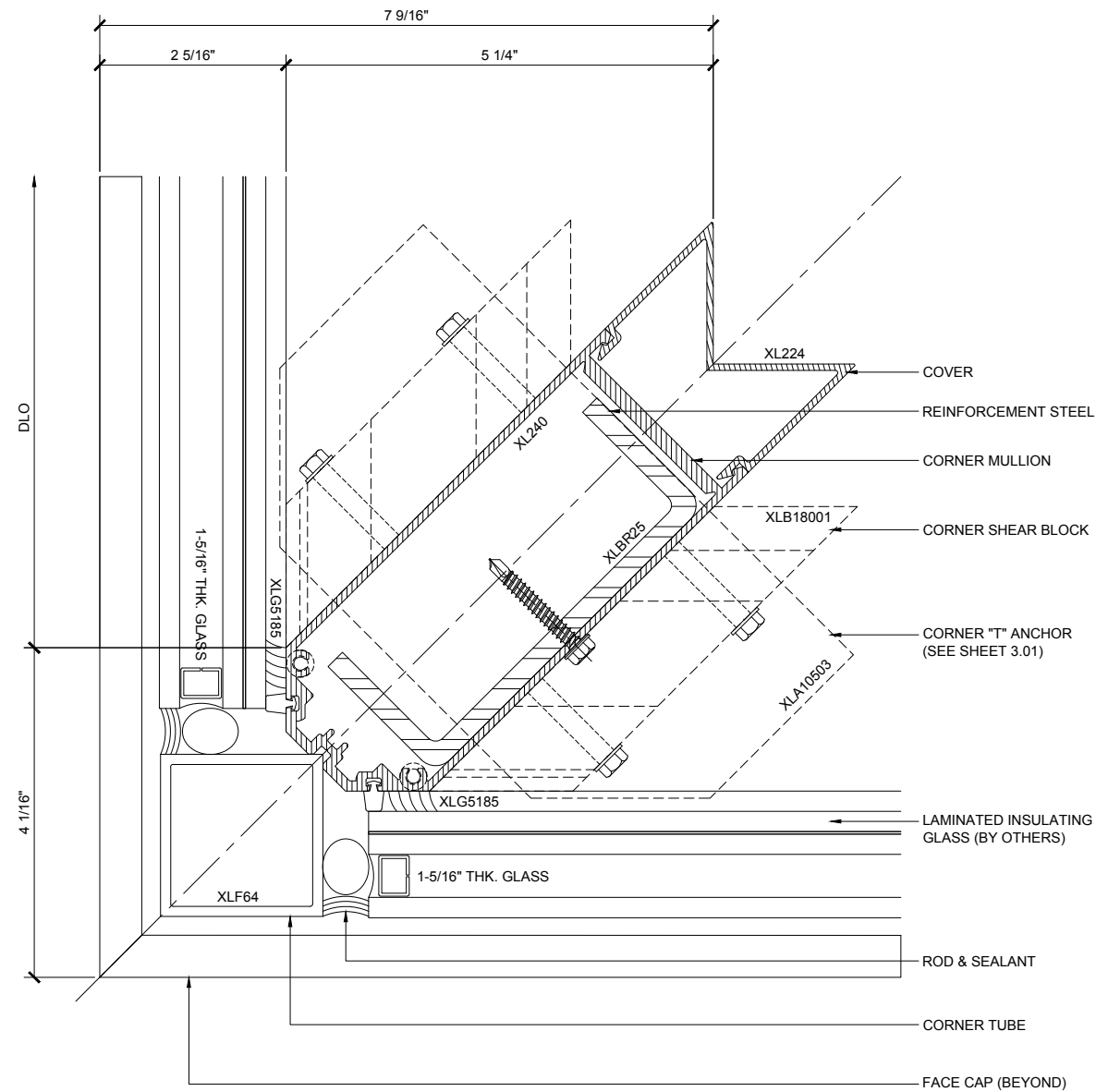
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**90 DEGREE OSC** V5G  
9/16" THK. GLASS / WET GLAZED



**90 DEGREE SSG OSC** V5H  
1-5/16" THK. GLASS / WET GLAZED

## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

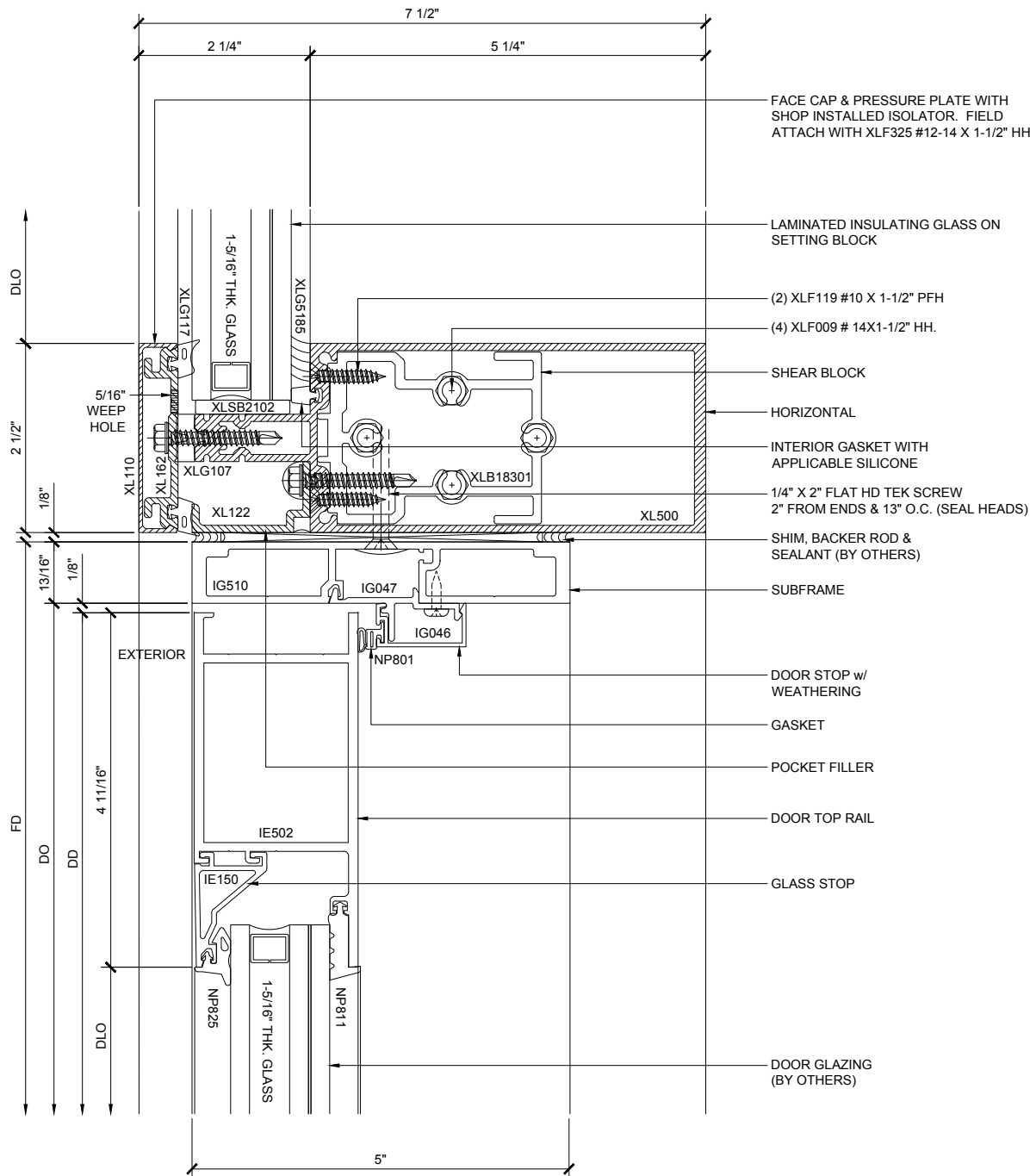
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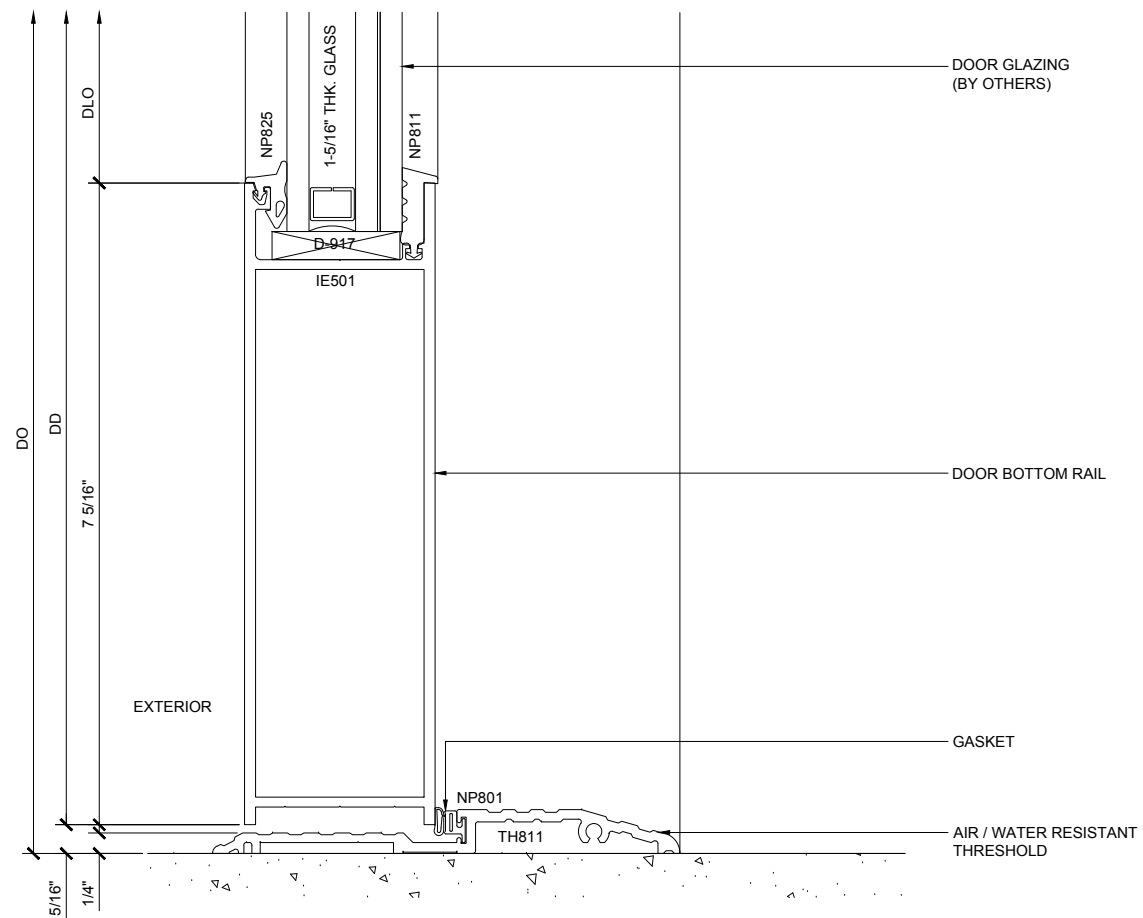
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

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2.08



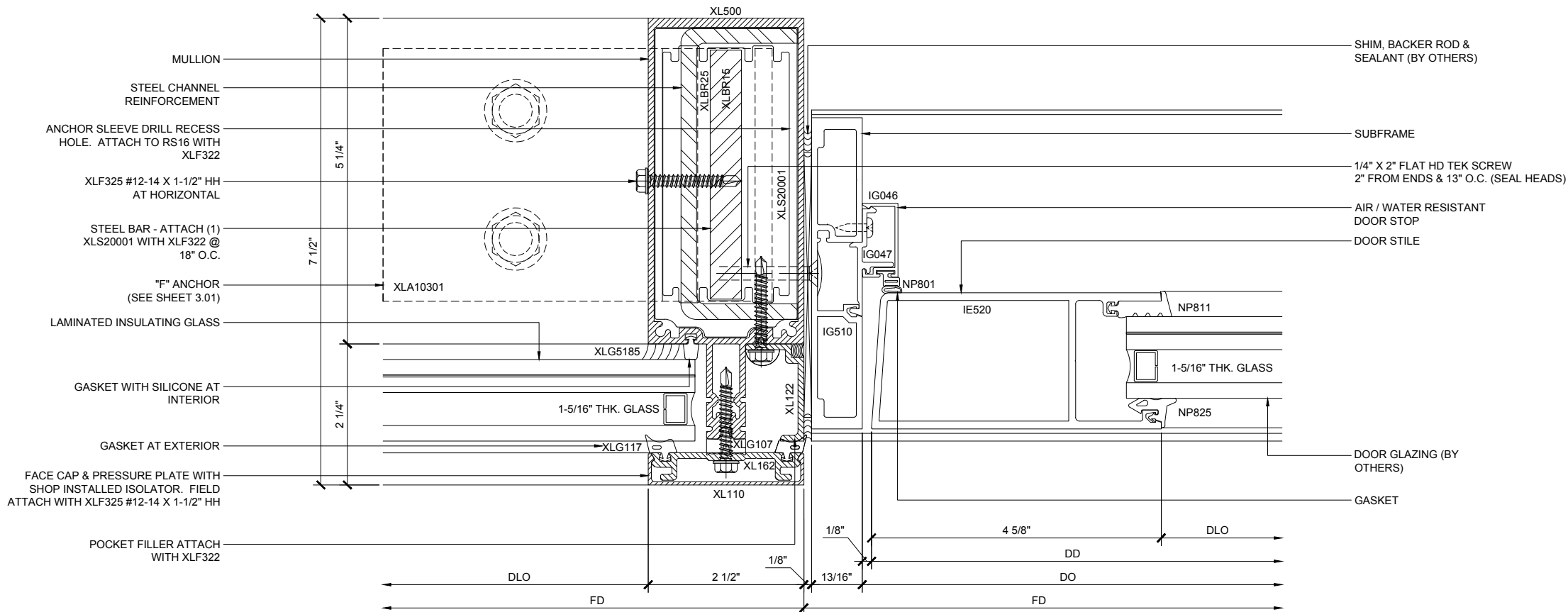
**DOOR HEAD DETAIL** (H6)  
1-5/16" THK. GLASS / WET GLAZED



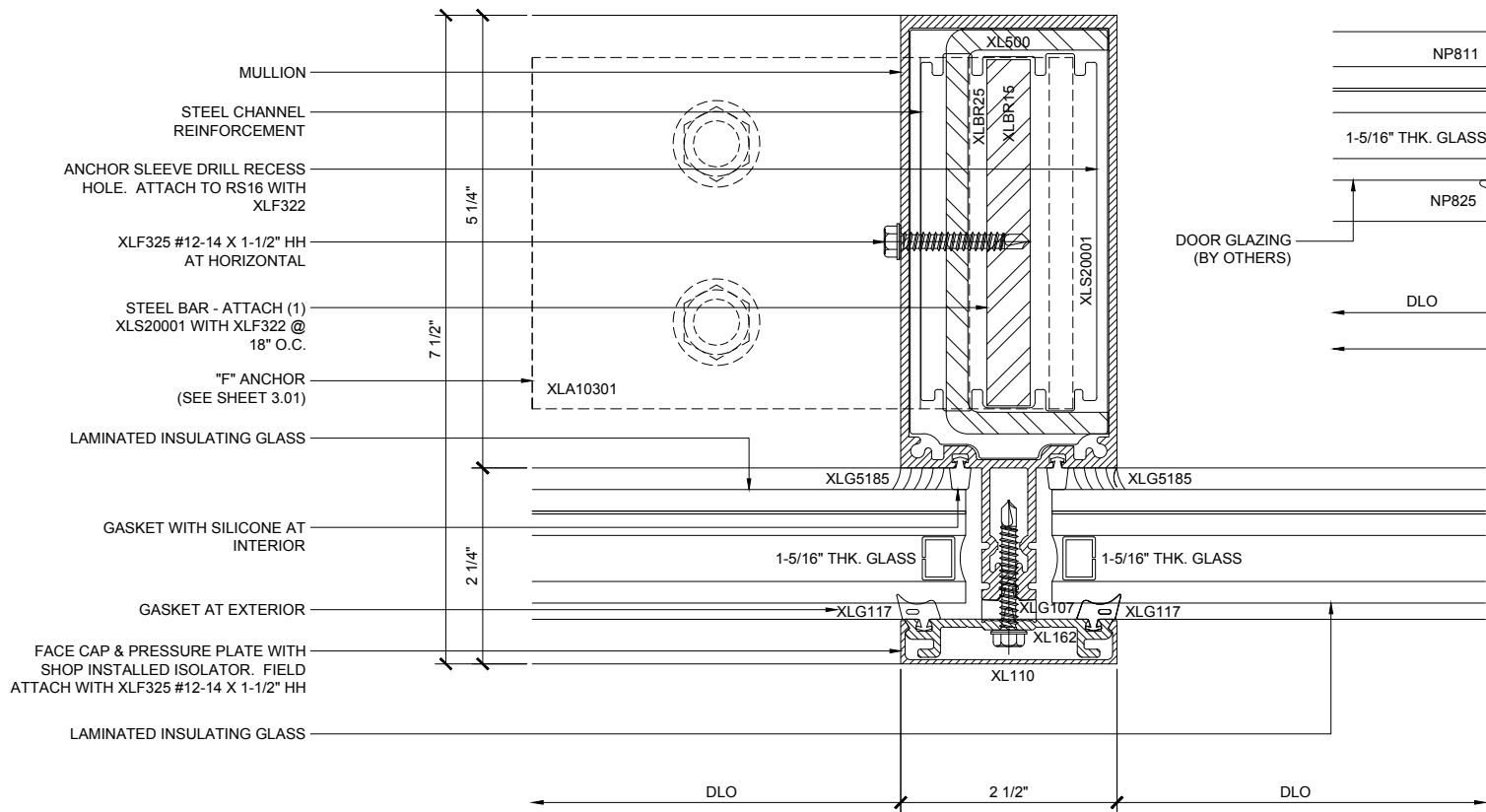
**DOOR BOTTOM RAIL DETAIL** (H7)

Revisions By:

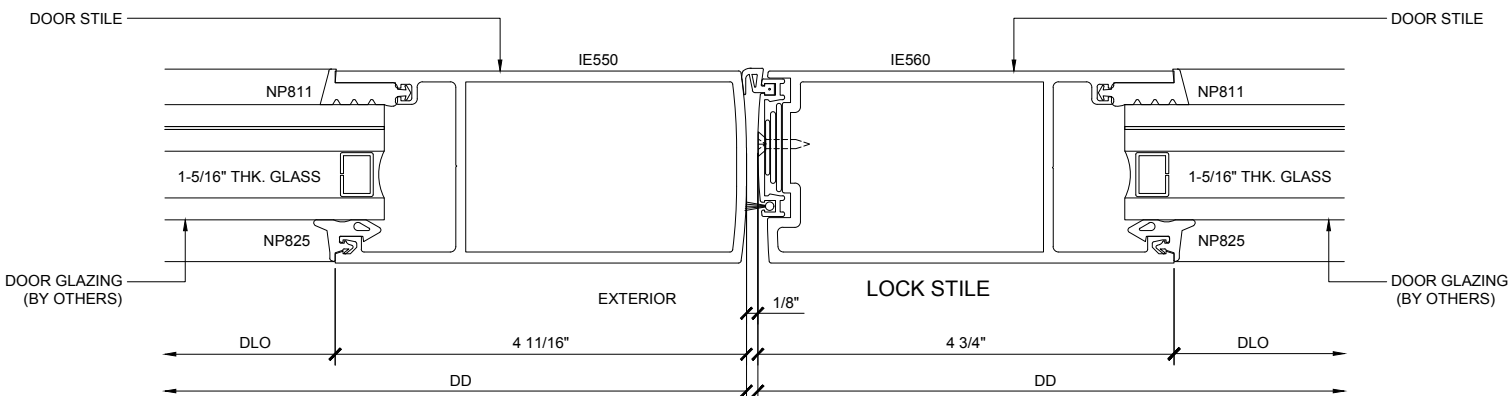




**DOOR JAMB DETAIL** (V8)  
1-5/16" THK. GLASS / WET GLAZED



**TRANSOM DETAIL** (V8A)  
1-5/16" THK. GLASS / WET GLAZED



**MEETING STILE** (V9)

**STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM**

Revisions By:

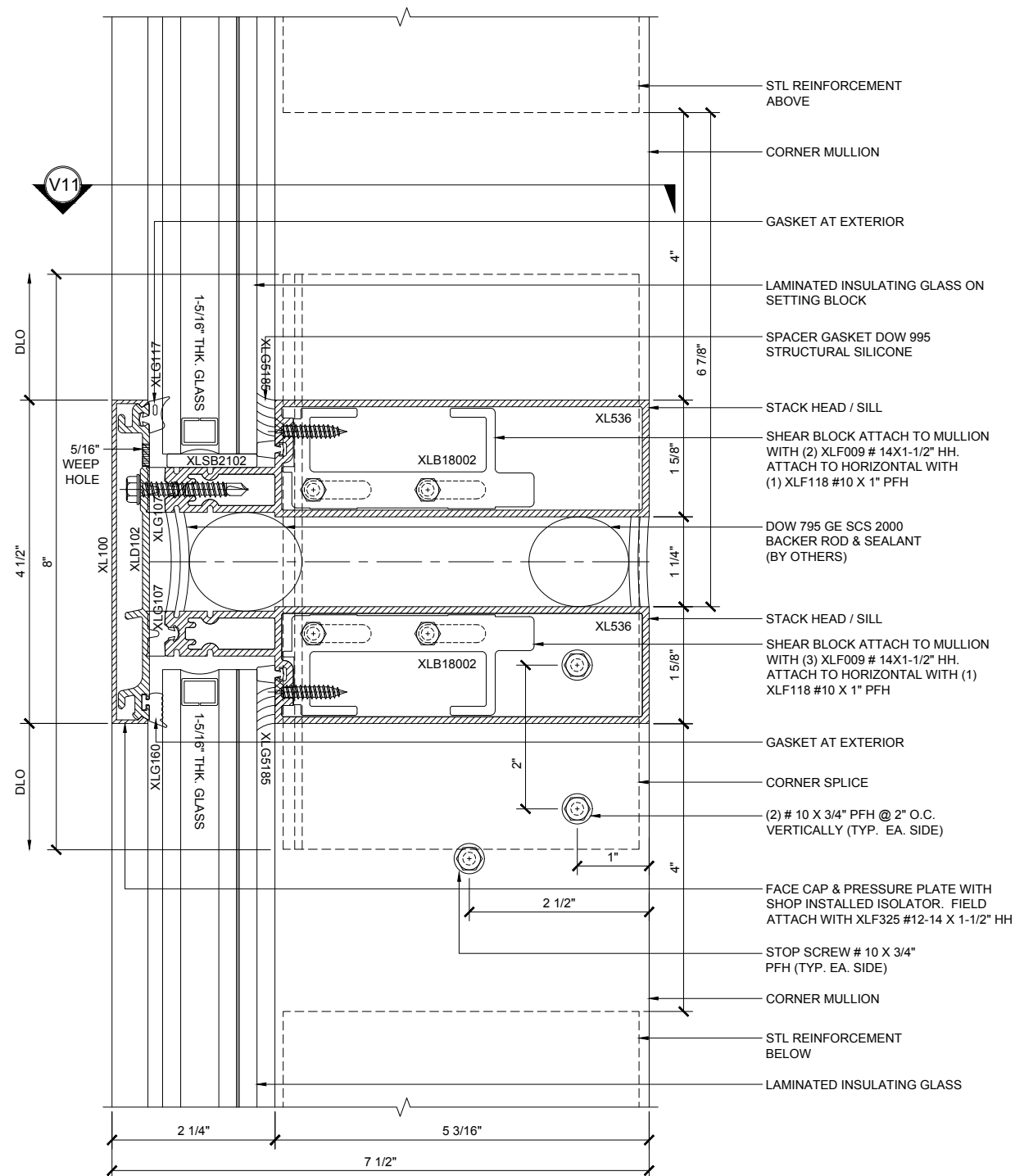


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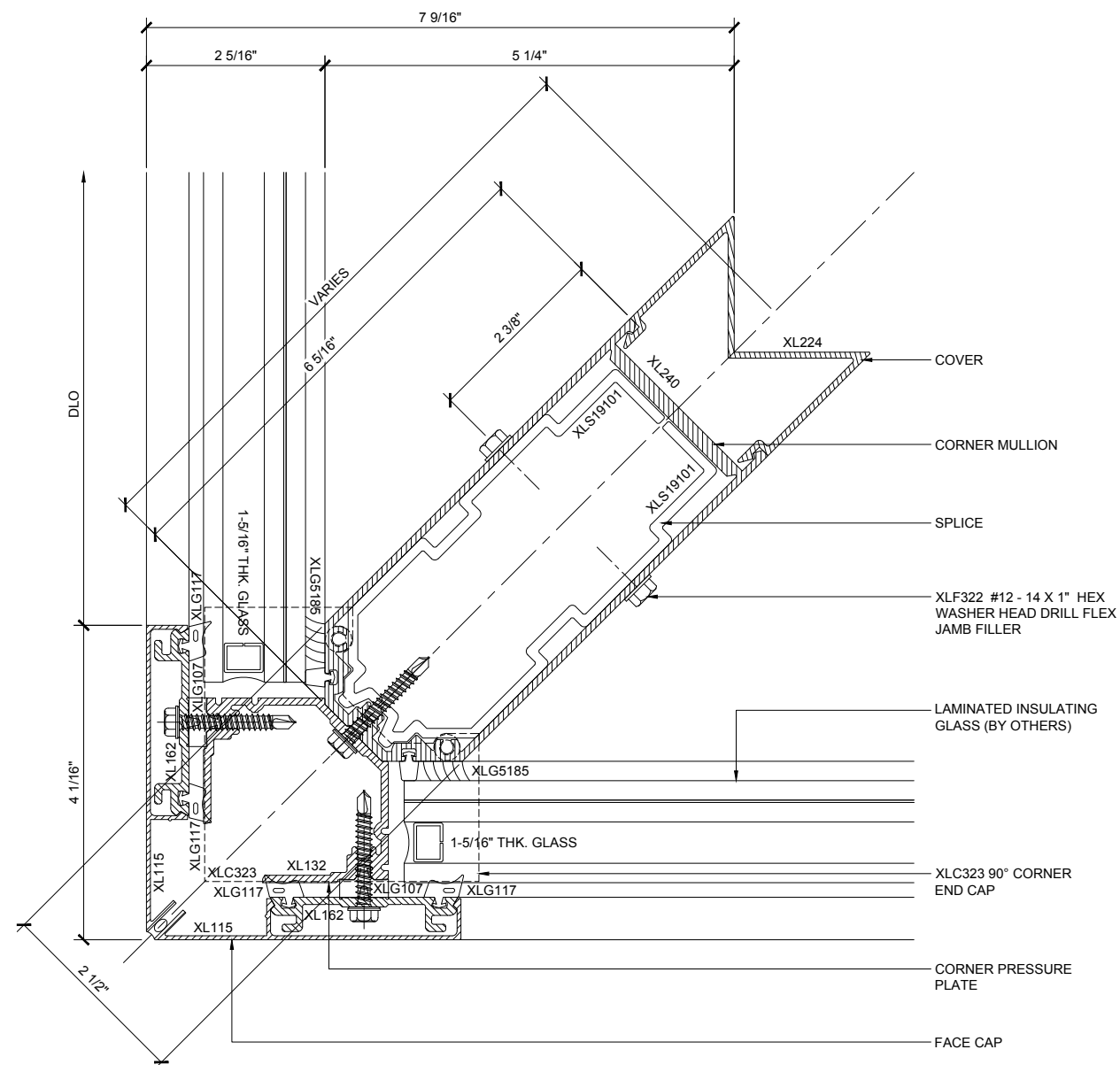
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD  
Date: 02/03/17  
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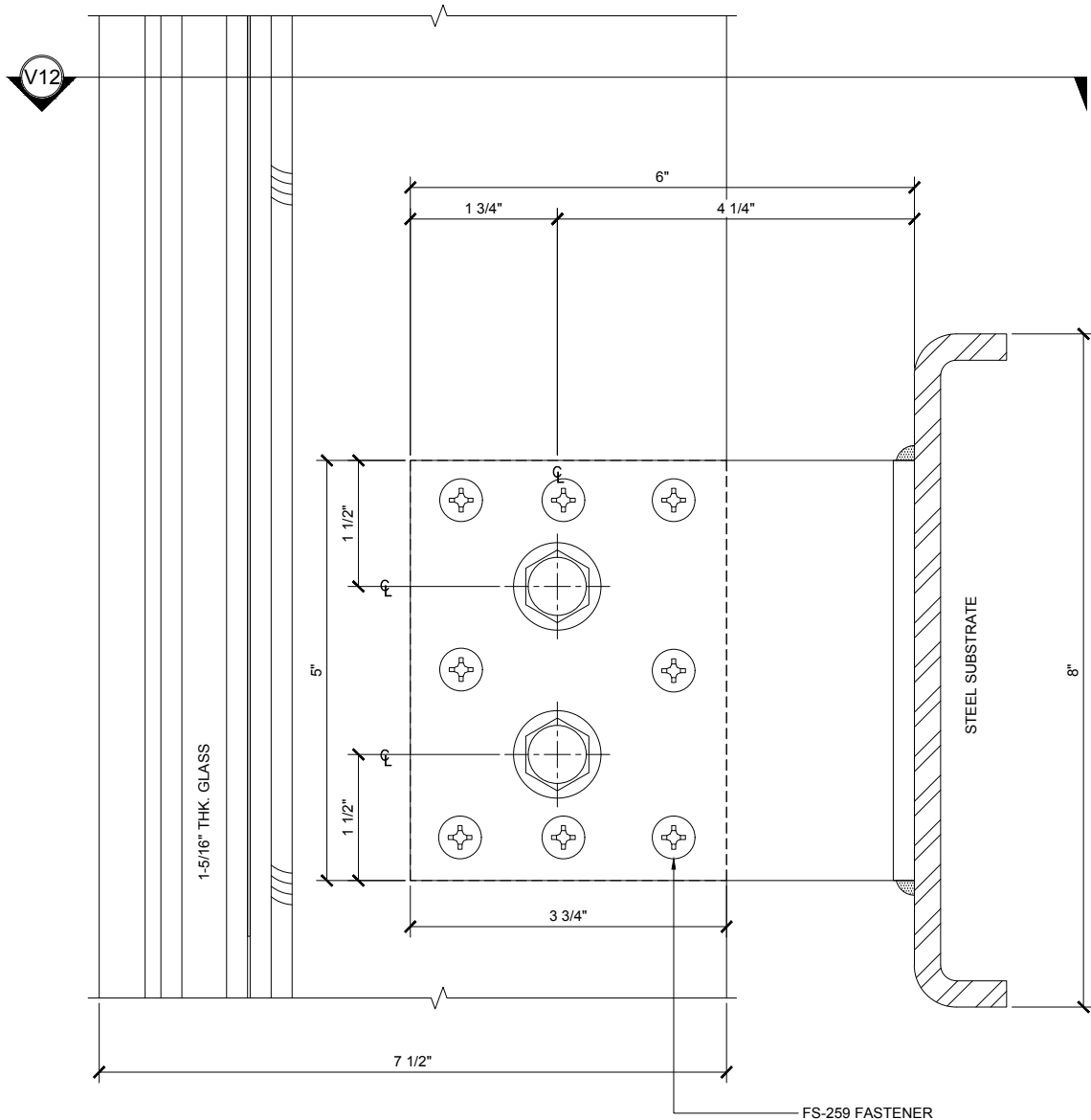


**EXPANSION HORIZONTAL @ CORNER (H11)**  
MULLION SPLICE DETAILS @ CORNER LOCATIONS

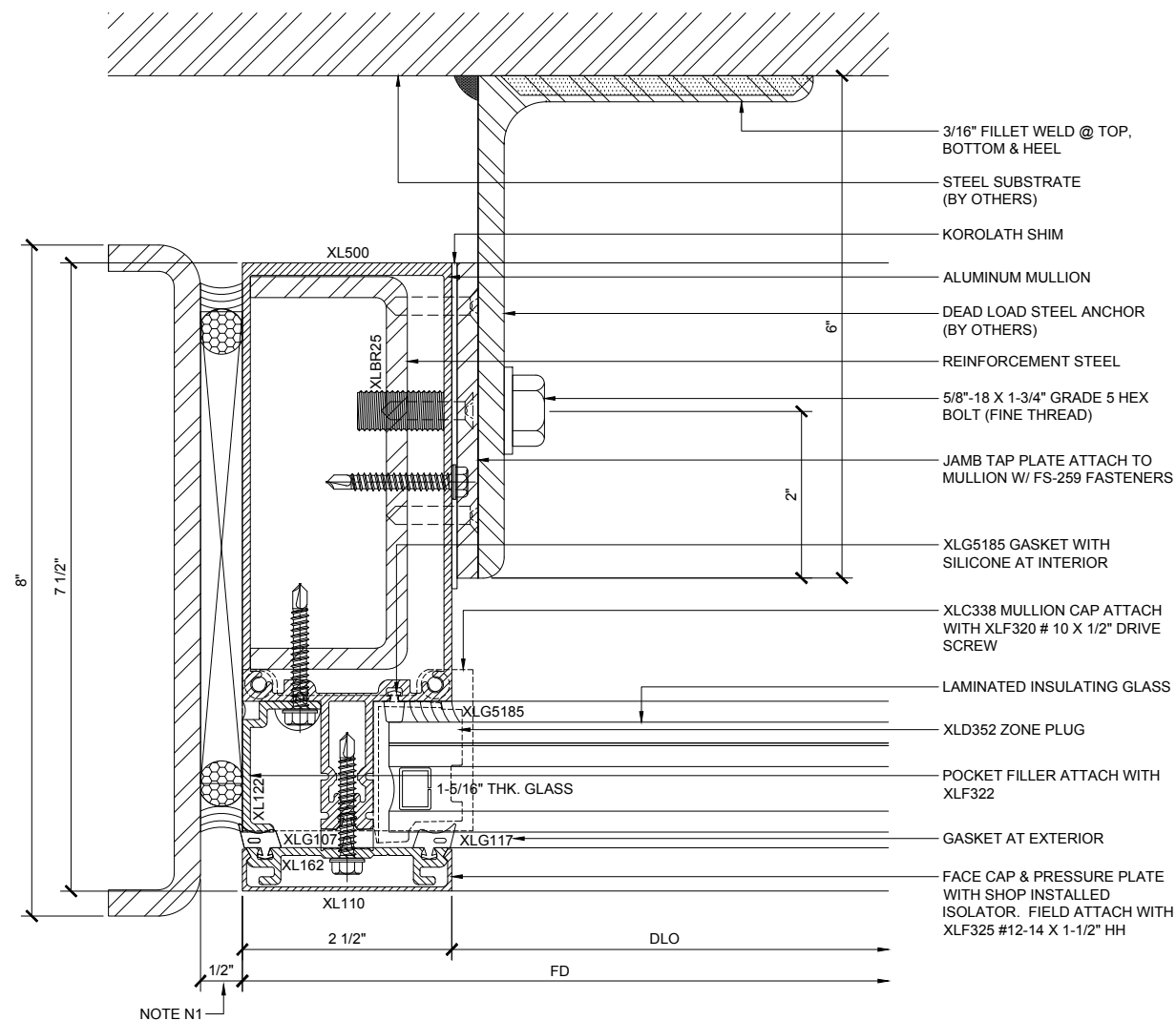


**90 DEGREE OSC (V11)**  
MULLION SPLICE DETAILS

Revisions By:



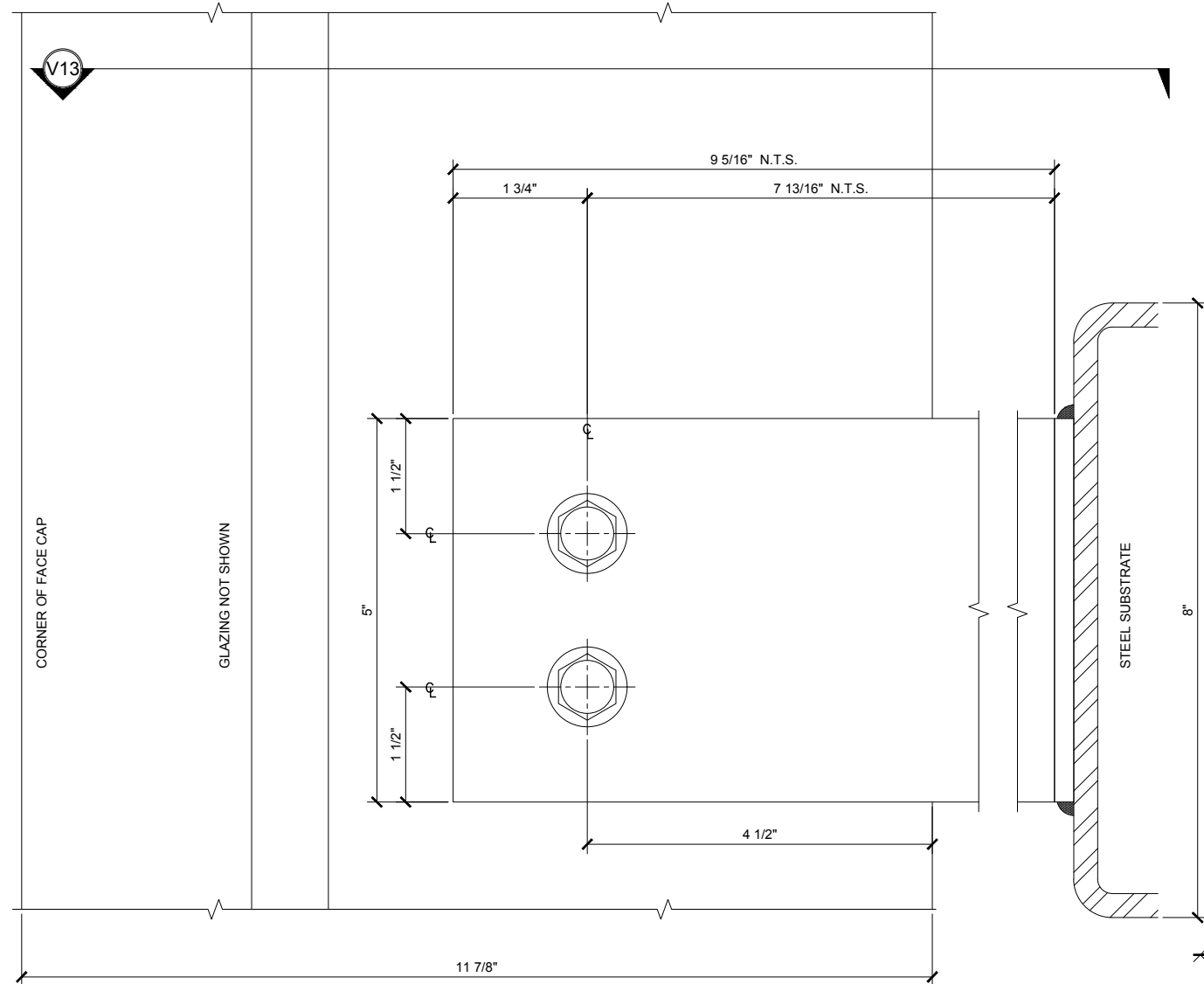
**MID SPAN ANCHOR DETAIL** H12  
 @ JAMB LOCATIONS (DEAD LOAD ANCHOR)



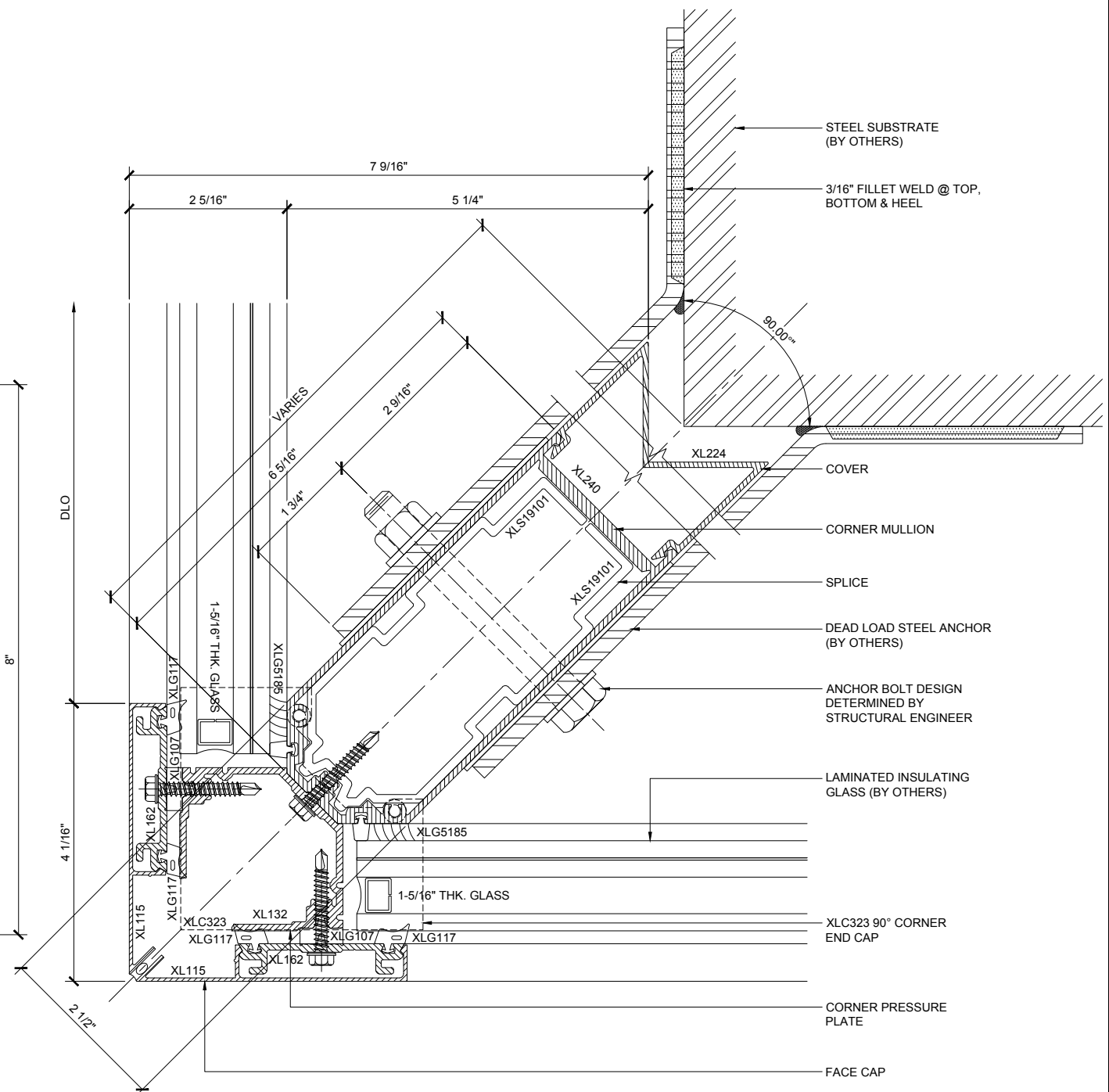
SEALANT JOINT NOTE:  
 N1 - 5/8" MIN. & 1-5/16" MAX  
 WIDE JOINT w/ SEALANT

**MID SPAN ANCHOR DETAIL** V12  
 @ JAMB LOCATIONS (DEAD LOAD ANCHOR)

Revisions By:	
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Description: <b>U.S. ALUMINUM          STORM WALL XL          HURRICANE RESISTANT          CURTAIN WALL SYSTEM</b>	
Drawn By: RPD Date: 02/03/17 Scale: AS NOTED File Name: StormWallXL.dwg	
Sheet <b>2.13</b>	



**MID SPAN ANCHOR DETAIL** H13  
@ CORNER MULLION LOCATIONS (DEAD LOAD ANCHOR)



**MID SPAN ANCHOR DETAIL** (V13)  
@ CORNER MULLION LOCATIONS (DEAD LOAD ANCHOR)

Revisions By:



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PH (800)-421-6144 FX: 800-587-7501 [www.crlaurence.com](http://www.crlaurence.com)

Description:

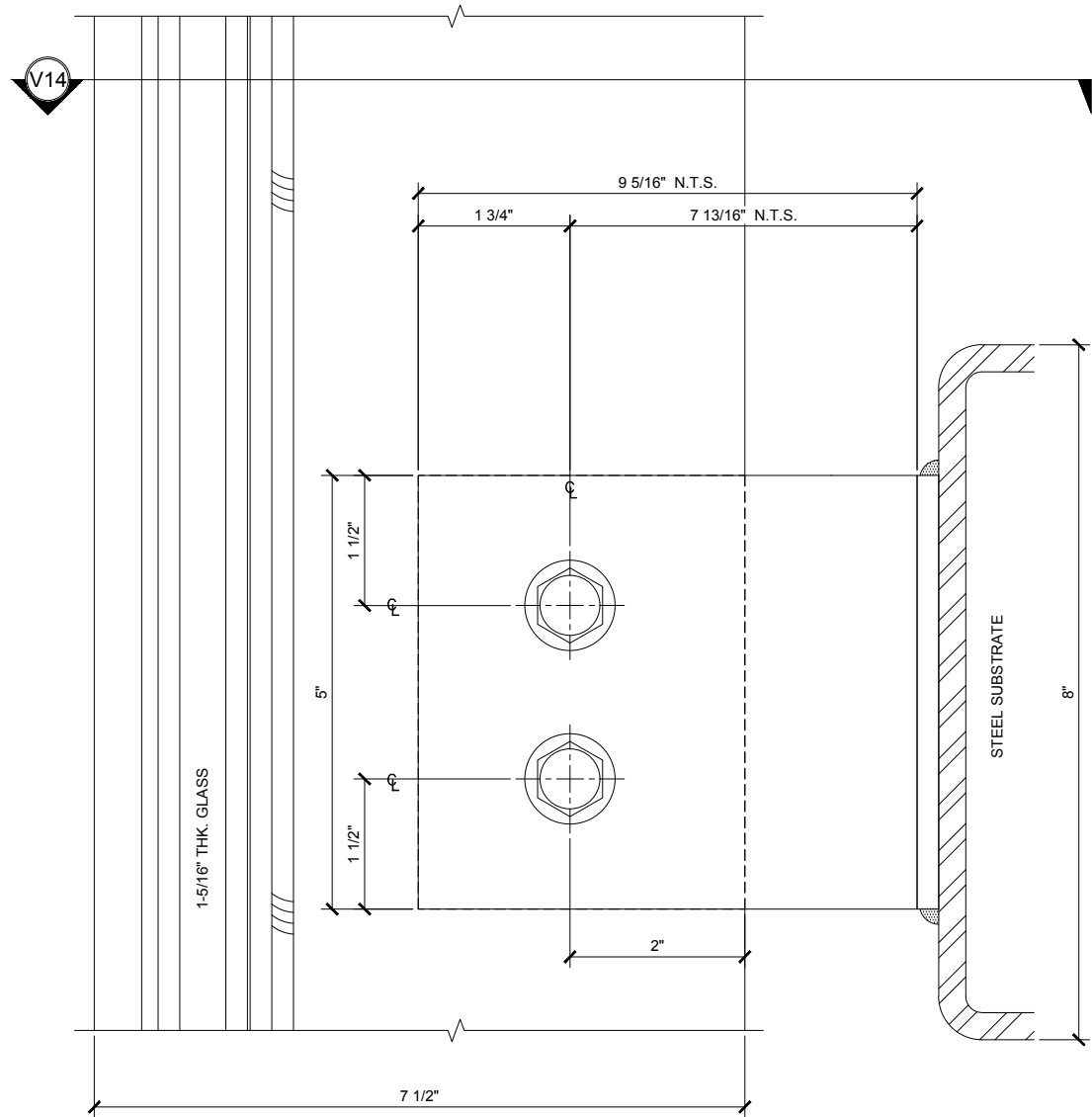
Drawn By: RPD

Date: 02/03/17

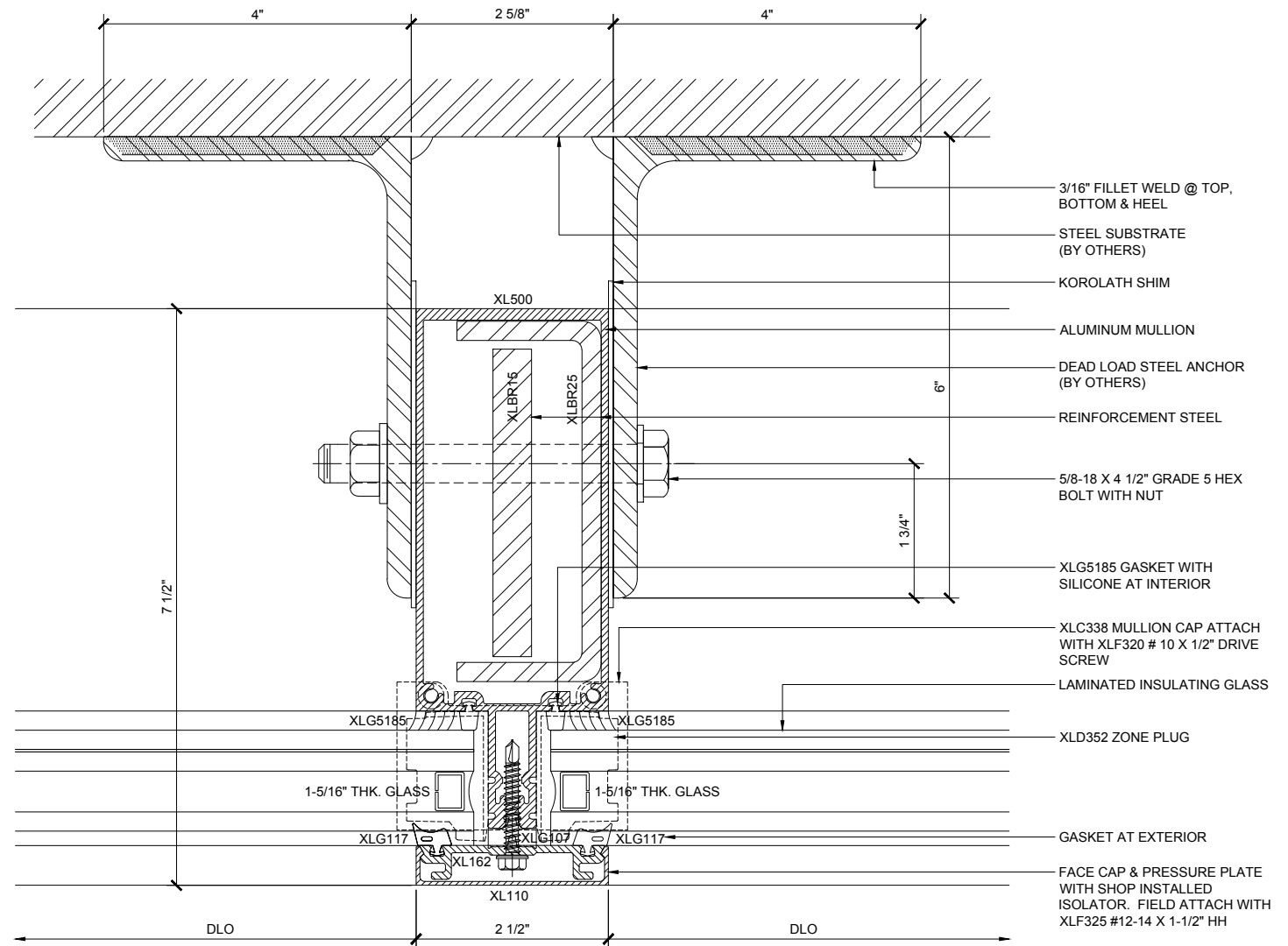
Scale: AS NOTED

File Name: StormWallXL.dwg

heet



**MID SPAN ANCHOR DETAIL** H14  
 @ CENTER MULLION LOCATIONS (DEAD LOAD ANCHOR)



**MID SPAN ANCHOR DETAIL** V14  
 @ CENTER MULLION LOCATIONS (DEAD LOAD ANCHOR)

Revisions By:

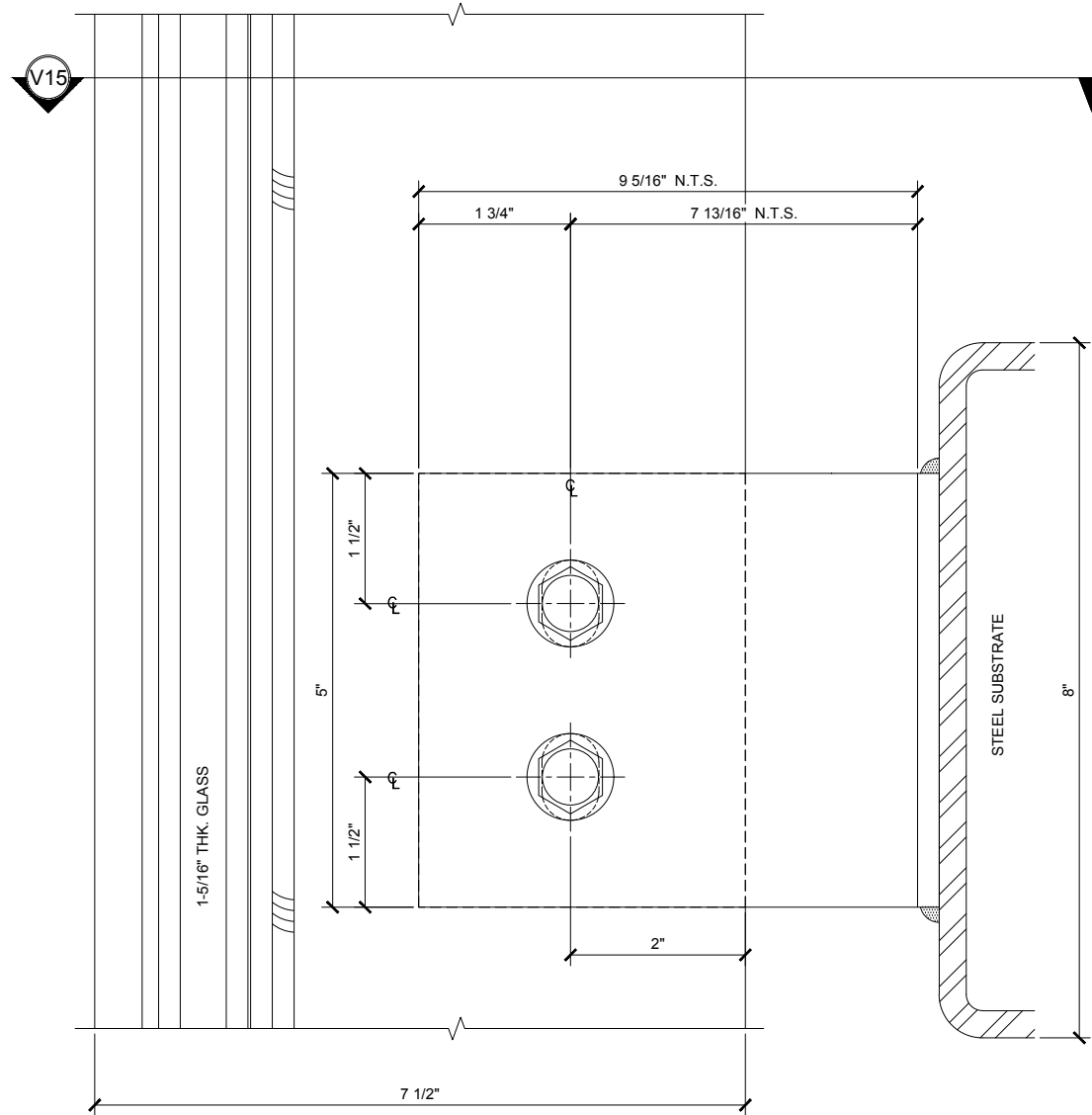
CCL

ALUMINUM

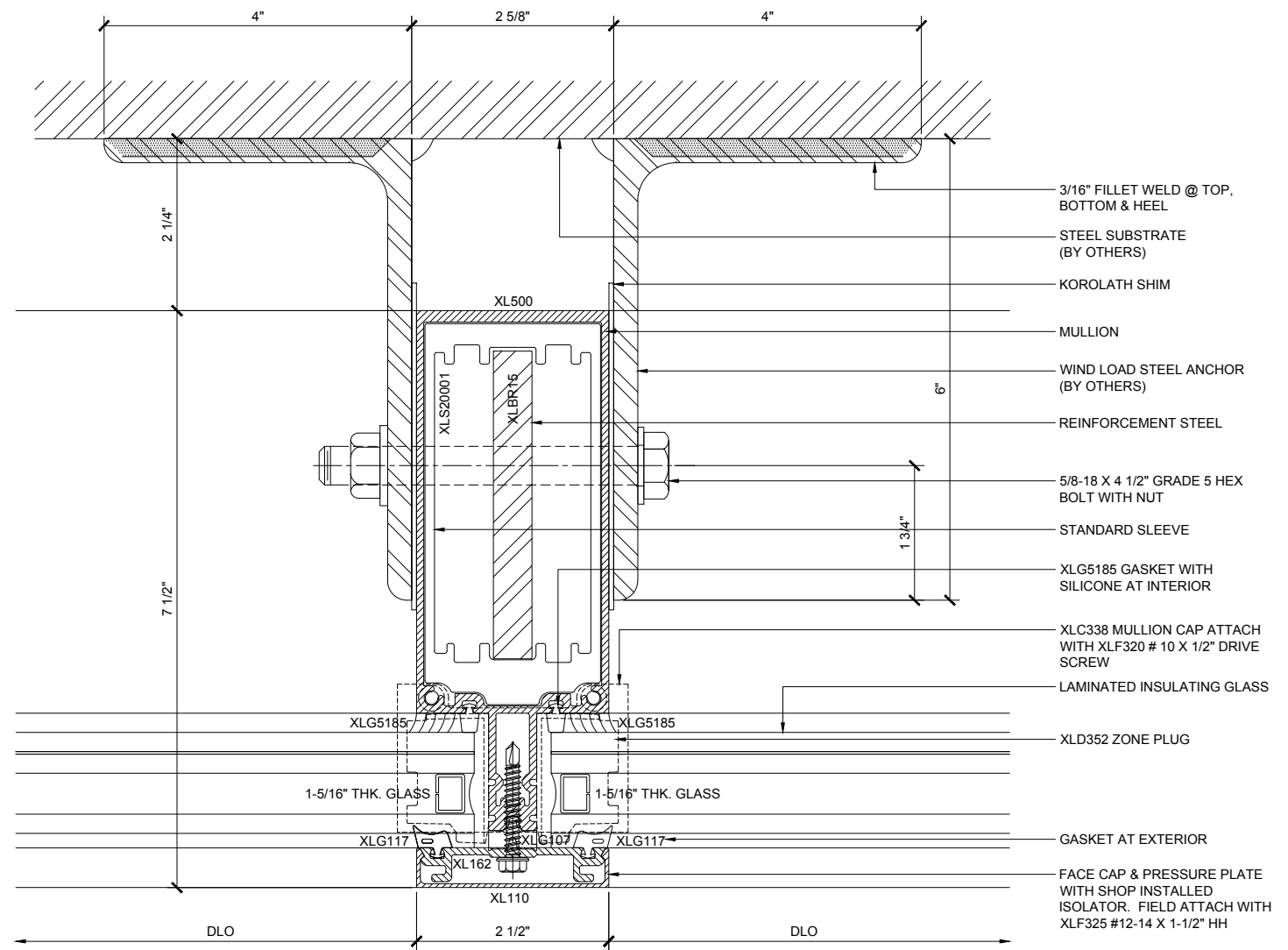
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS  
 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897  
 PH (800)-421-6144 FX 800-387-7501 www.crlaurence.com

U.S. ALUMINUM  
 STORM WALL XL  
 HURRICANE RESISTANT  
 CURTAIN WALL SYSTEM

Drawn By: RPD  
 Date: 02/03/17  
 Scale: AS NOTED  
 File Name: StormWallXL.dwg  
 Sheet

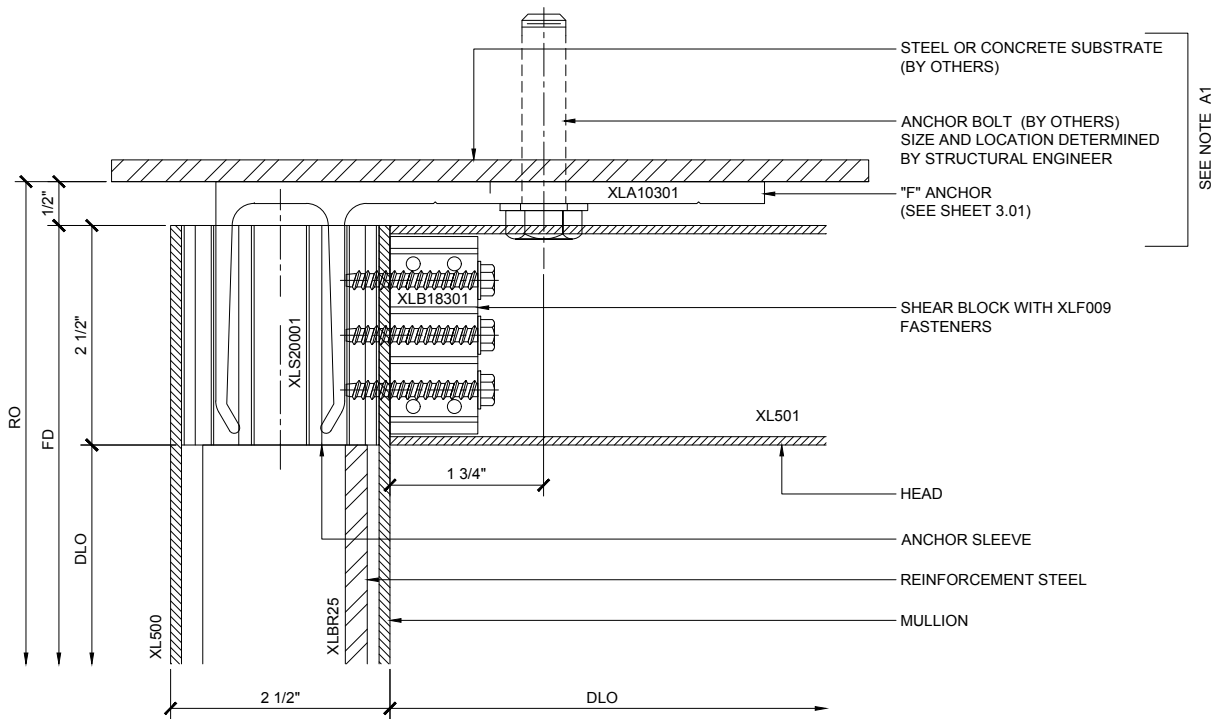


**MID SPAN ANCHOR DETAIL** H15  
 @ CENTER MULLION LOCATIONS (WIND LOAD ANCHOR)

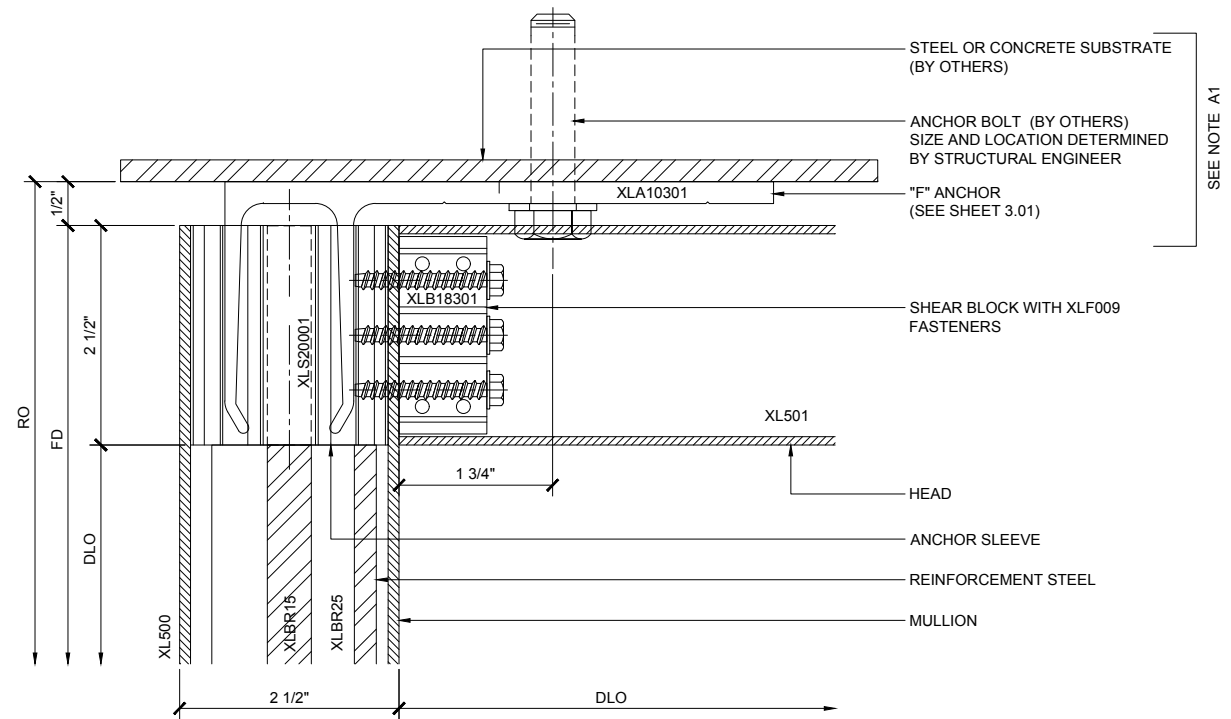


**MID SPAN ANCHOR DETAIL** V15  
 @ CENTER MULLION LOCATIONS (WIND LOAD ANCHOR)

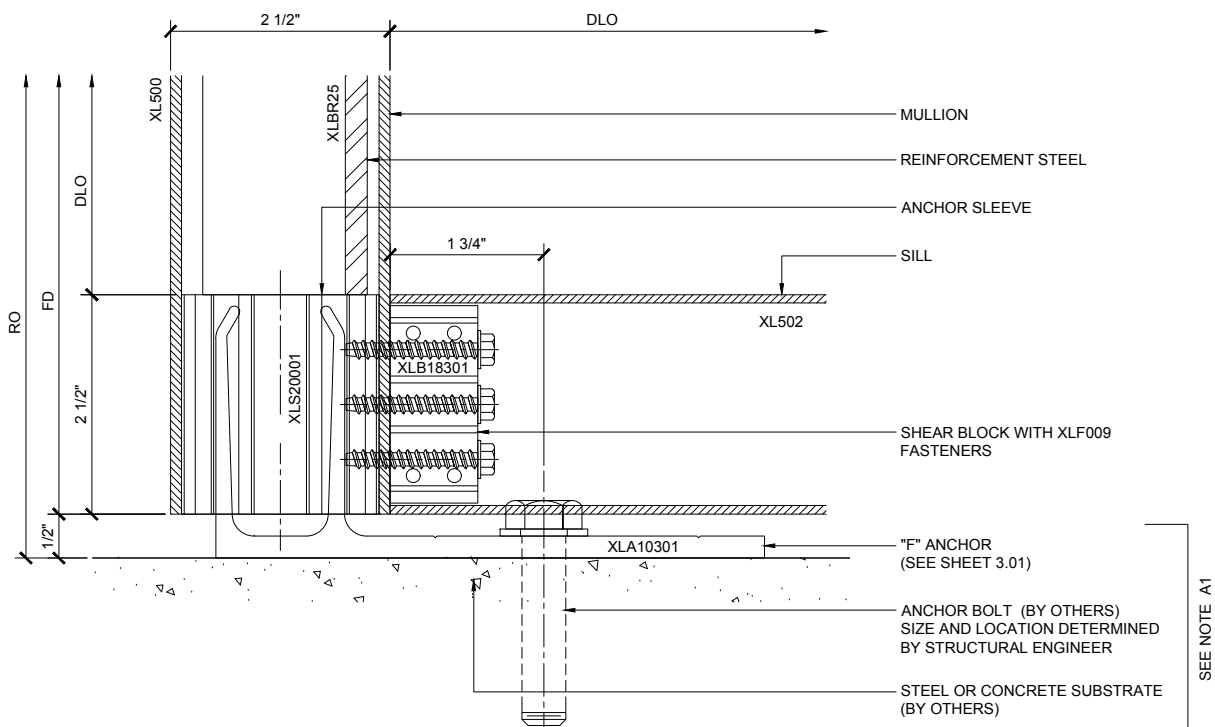
Revisions By:	
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897 PH (800) 421-6144 FX 800-387-7501 www.crlaurence.com	
Description:	<b>U.S. ALUMINUM</b> <b>STORM WALL XL</b> <b>HURRICANE RESISTANT</b> <b>CURTAIN WALL SYSTEM</b>
Drawn By: RPD Date: 02/03/17 Scale: AS NOTED File Name: StormWallXL.dwg	
2.16	



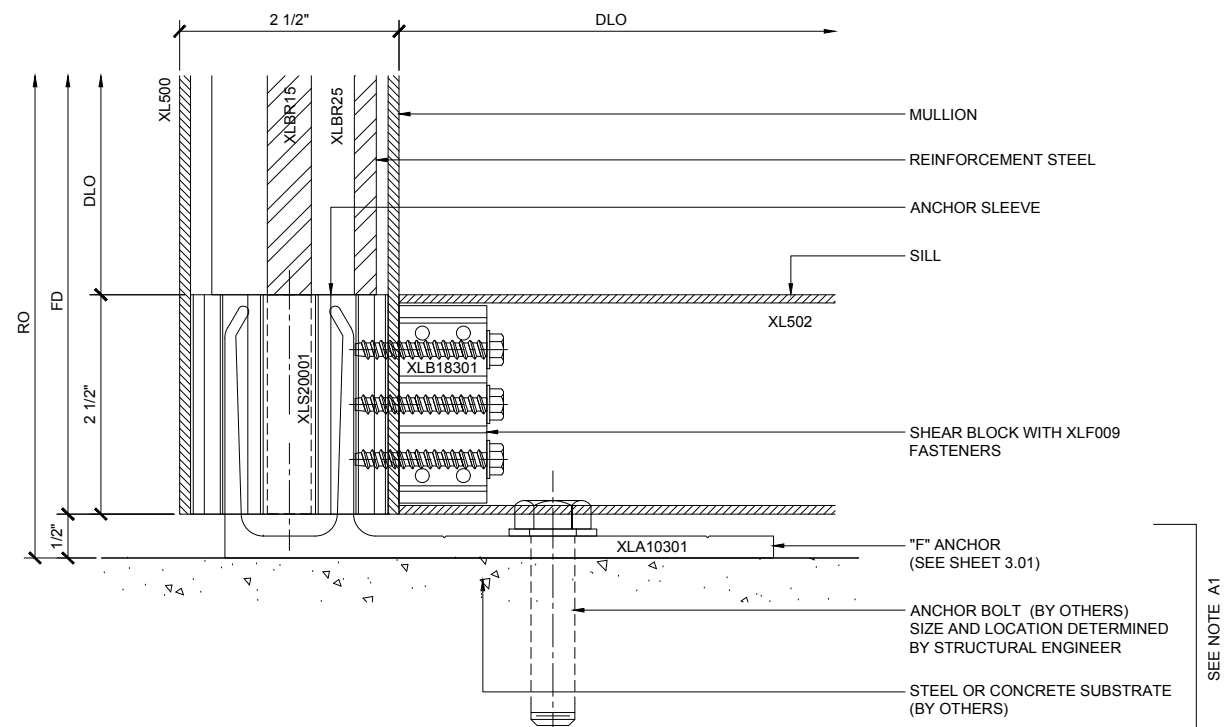
**JAMB ANCHOR AT HEAD** (16A)  
XLBR25 FOR STEEL / CONCRETE SUBSTRATE



**JAMB ANCHOR AT HEAD** (17A)  
XLBR15 & XLBR25 FOR STEEL / CONCRETE SUBSTRATE



**JAMB ANCHOR AT SILL** (16B)  
XLBR25 FOR STEEL / CONCRETE SUBSTRATE



**JAMB ANCHOR AT SILL** (17B)  
XLBR15 & XLBR25 FOR STEEL / CONCRETE SUBSTRATE

NOTE A1:  
L - XLA1740 SINGLE SPAN ONLY  
F - XLA 10301 - SLEEVE  
XLA 10302 - NO SLEEVE  
T - XLA10501 - SLEEVE  
XLA10502 - NO SLEEVE

## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

Revisions By:

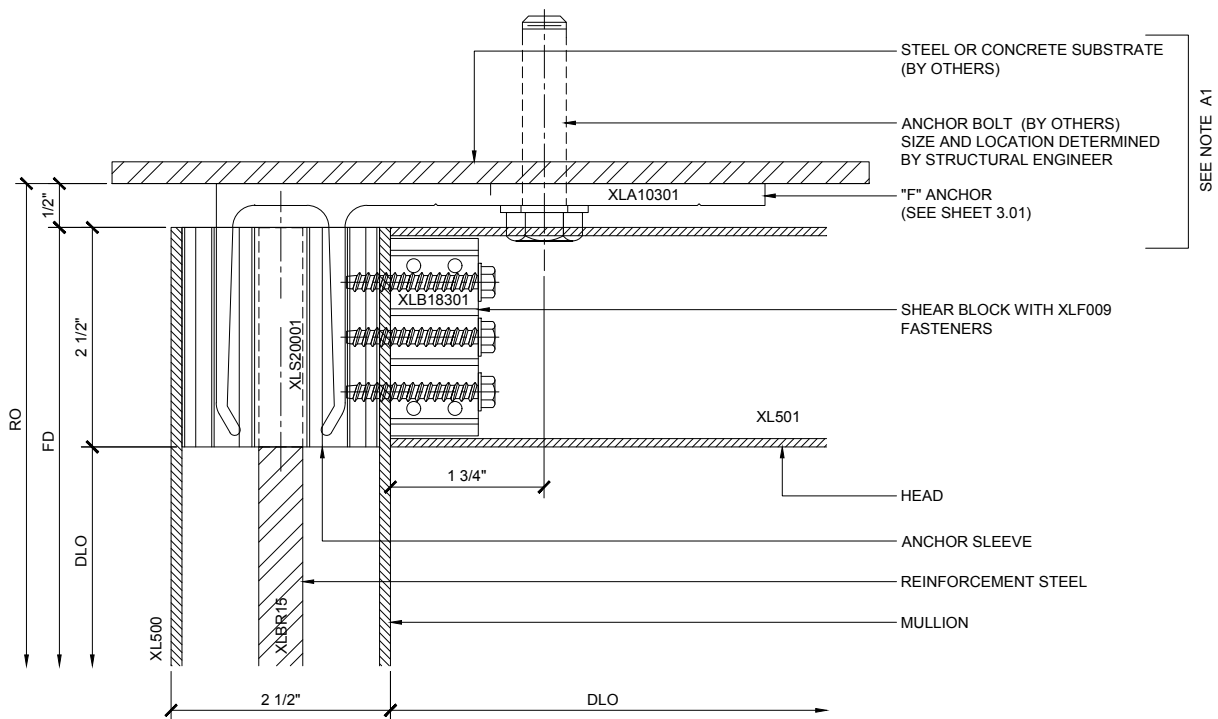
**CAL ALUMINUM**  
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS  
2503 E. Vernon Avenue, Los Angeles, CA 90058-1897  
PH (800) 421-6144 FX 800-387-7501 www.crlaurence.com

Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

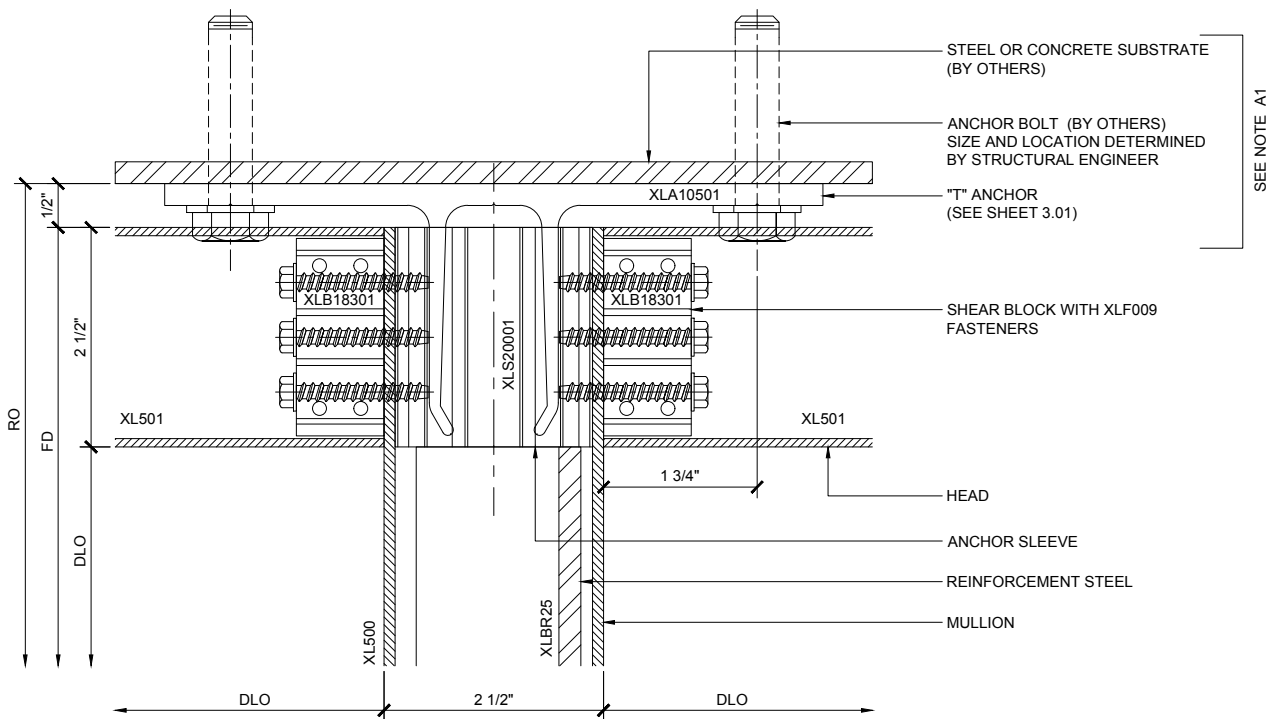
Drawn By: RPD  
Date: 02/03/17  
Scale: AS NOTED  
File Name: StormWallXL.dwg  
Sheet

2.17

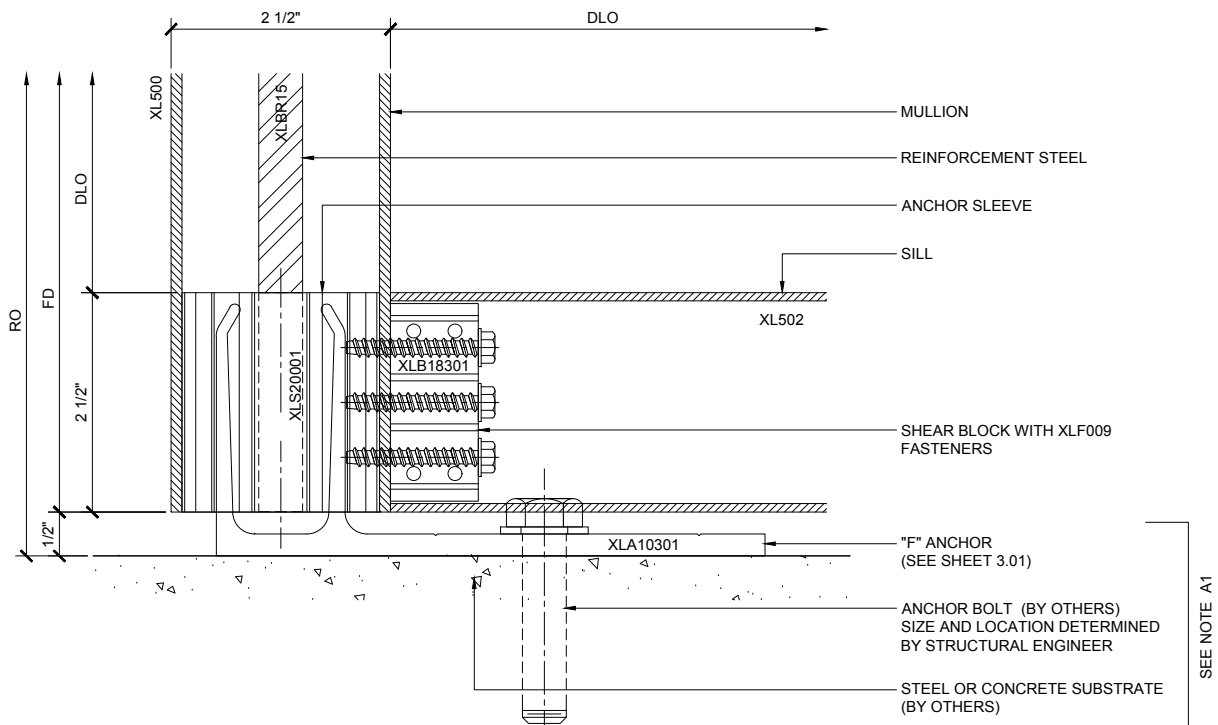




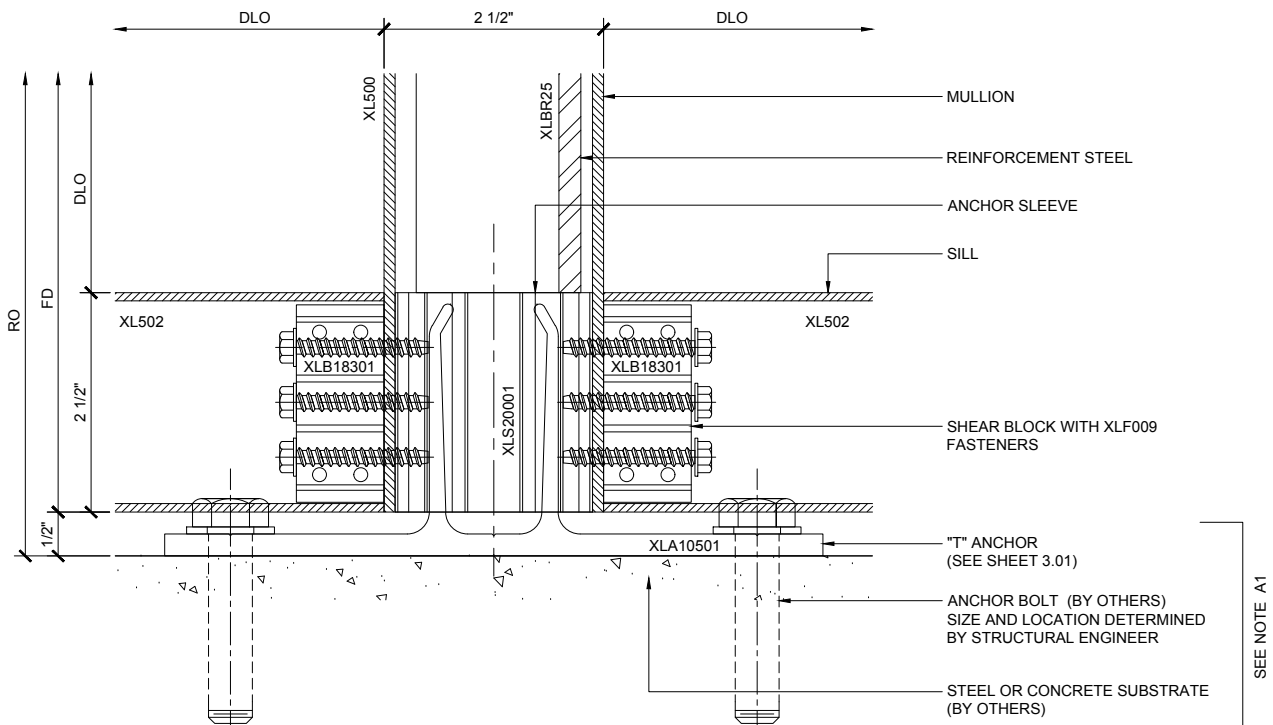
**JAMB ANCHOR AT HEAD** (18A)  
XLBR15 FOR STEEL / CONCRETE SUBSTRATE



**MULLION ANCHOR AT HEAD** (19A)  
XLBR25 FOR STEEL / CONCRETE SUBSTRATE

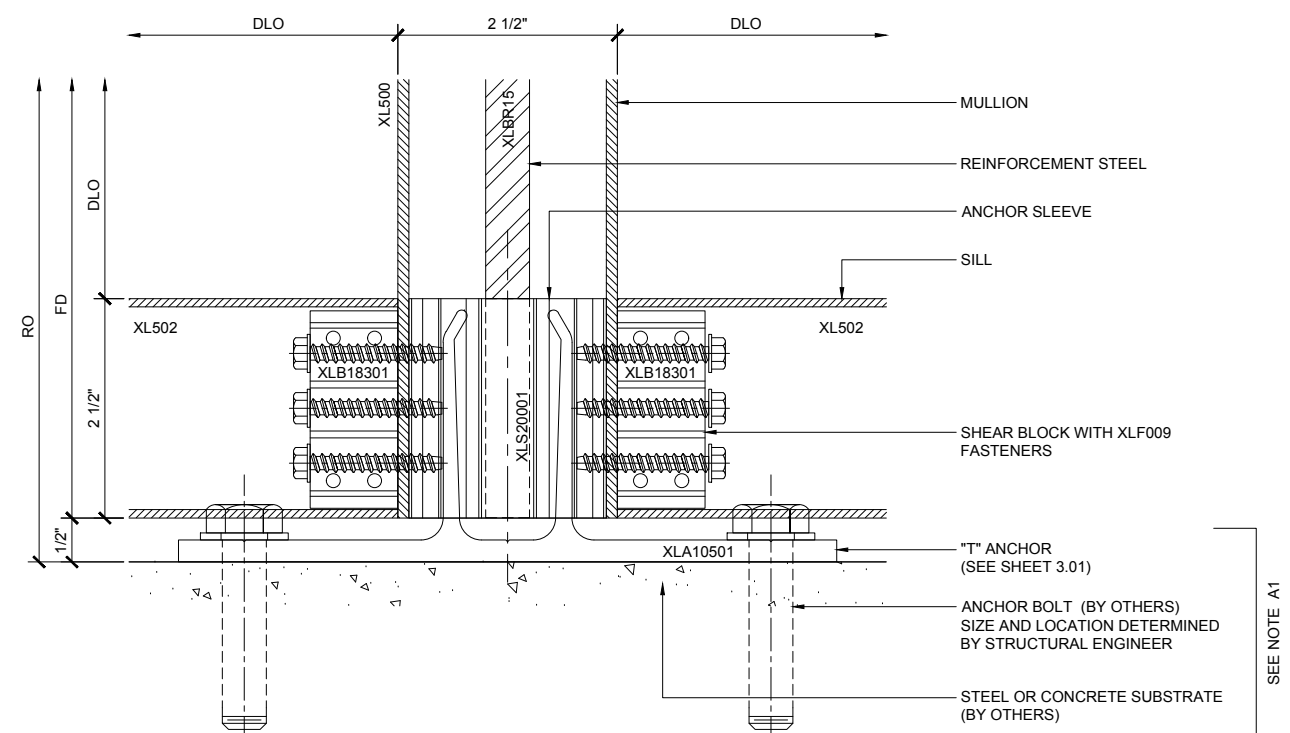
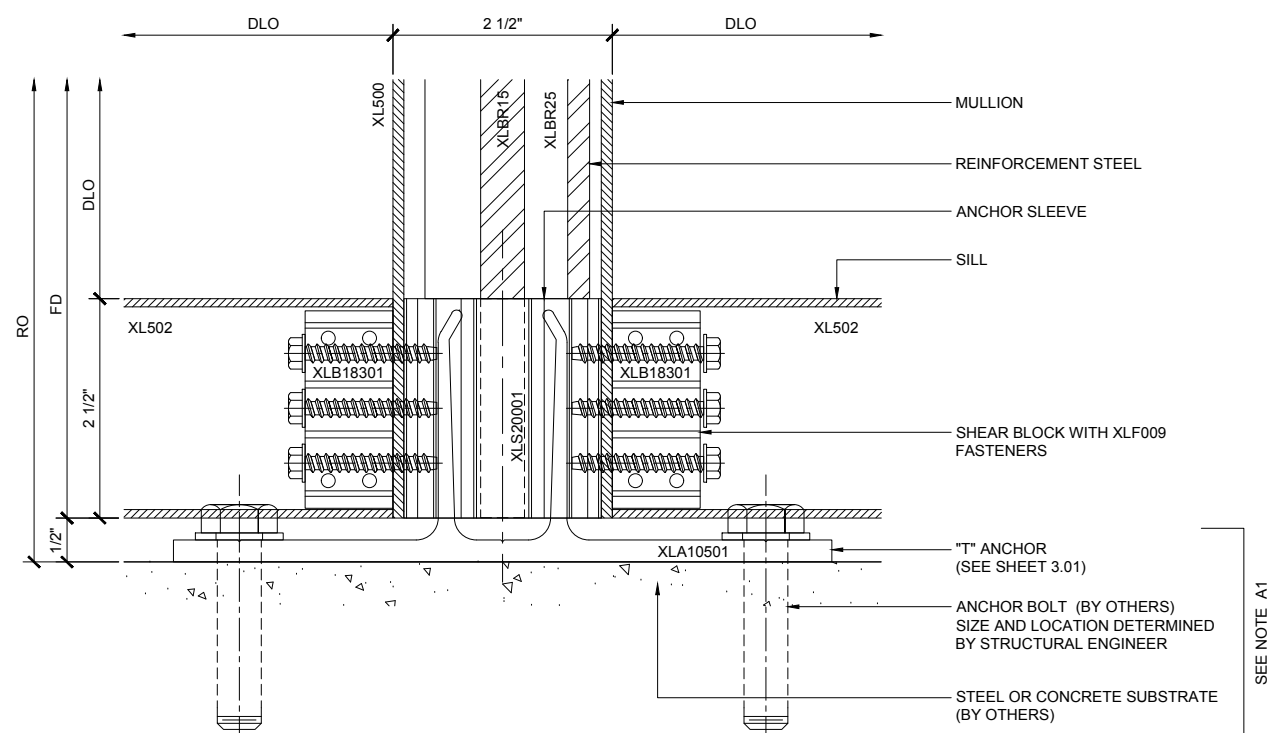
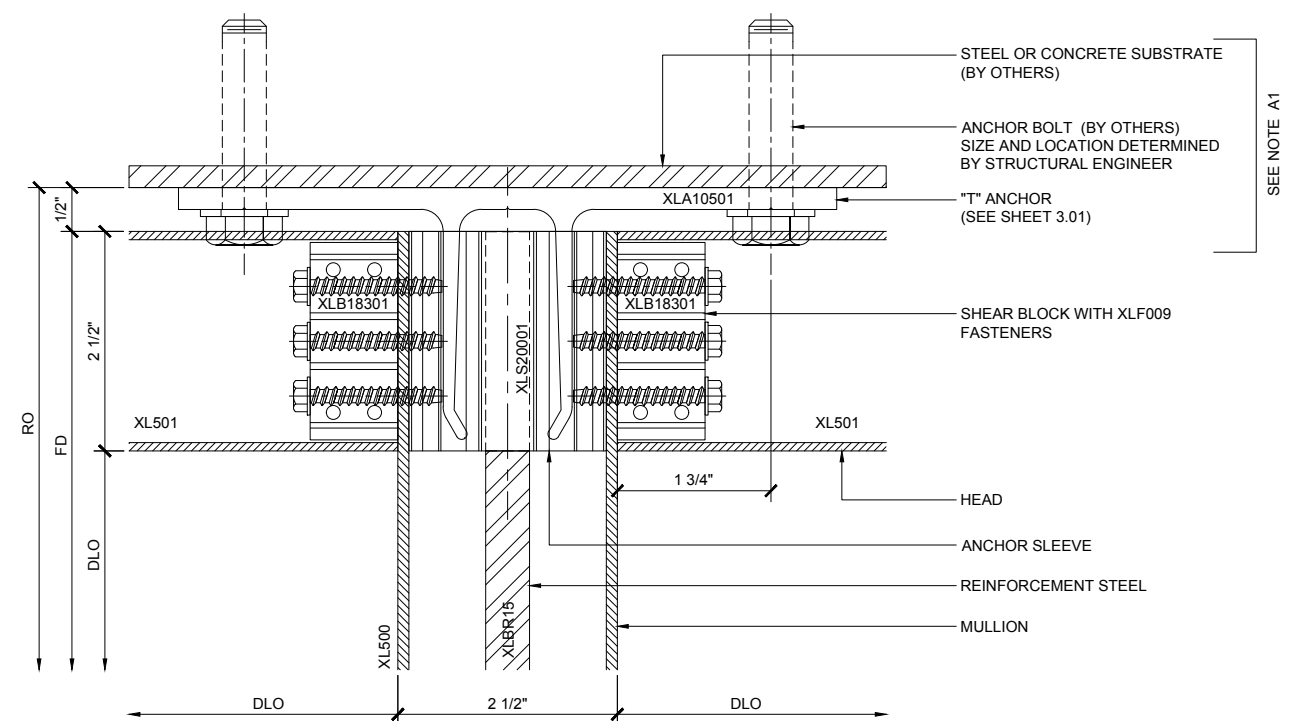
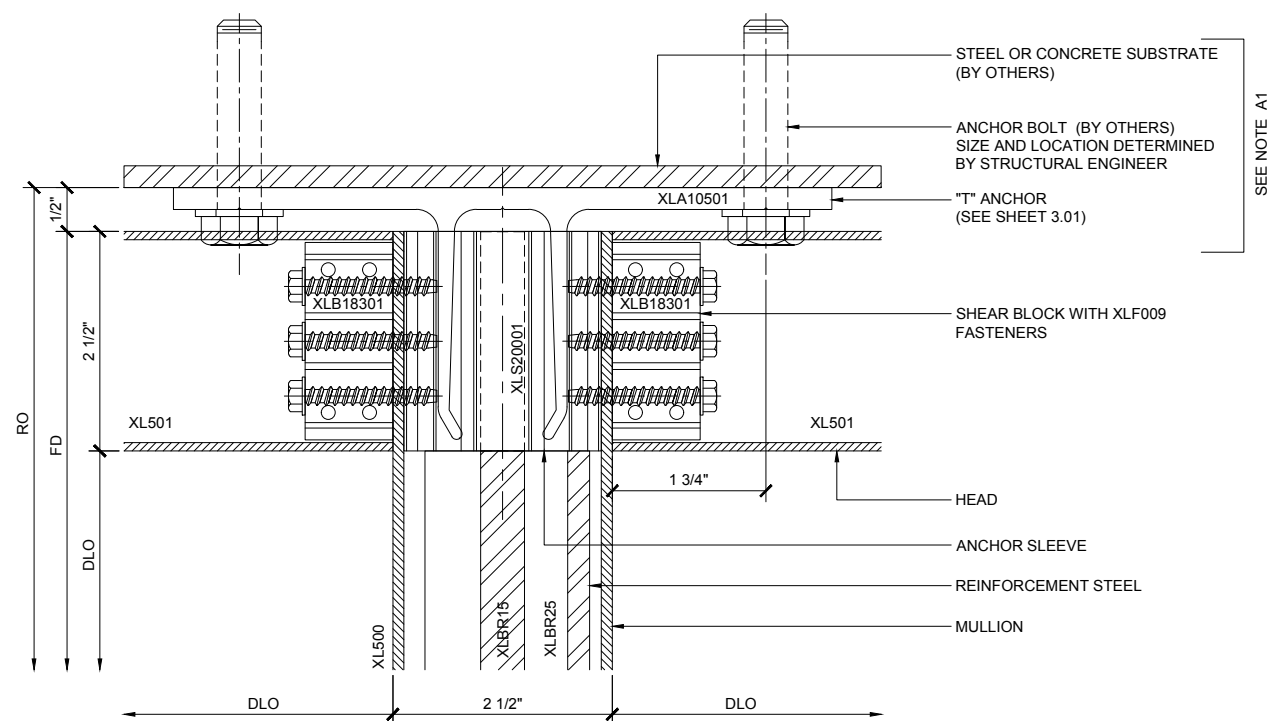


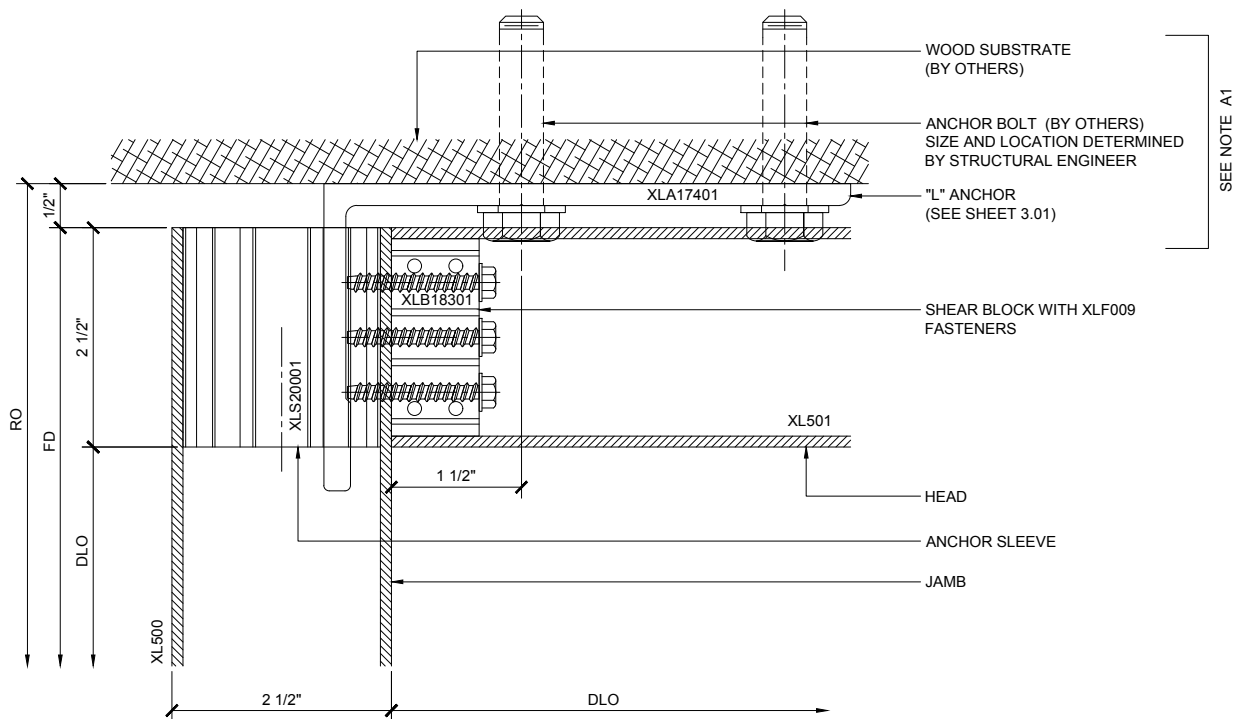
**JAMB ANCHOR AT SILL** (18B)  
XLBR15 FOR STEEL / CONCRETE SUBSTRATE



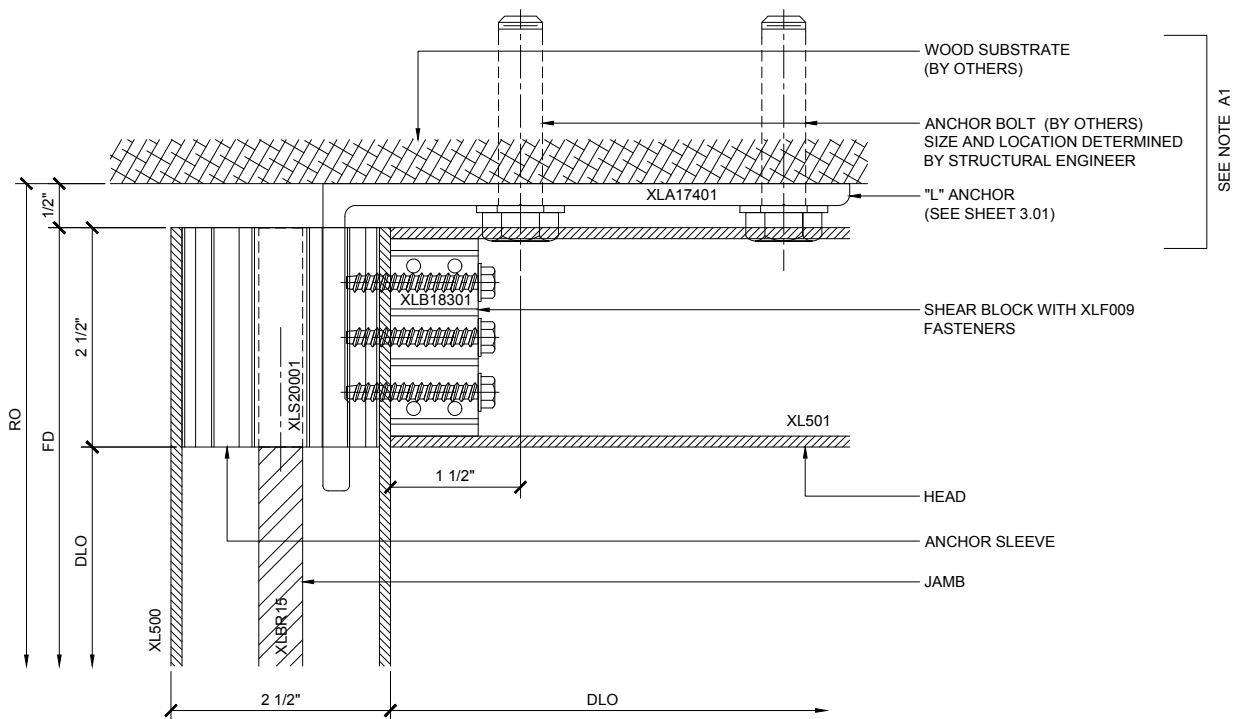
**MULLION ANCHOR AT SILL** (19B)  
XLBR25 FOR STEEL / CONCRETE SUBSTRATE

Revisions By:	
	
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897 PH (800) 421-6144 FX 800-387-7501 www.crlaurence.com	
Description: U.S. ALUMINUM STORM WALL XL HURRICANE RESISTANT CURTAIN WALL SYSTEM	
Drawn By: RPD Date: 02/03/17 Scale: AS NOTED File Name: StormWallXL.dwg	
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2.18	

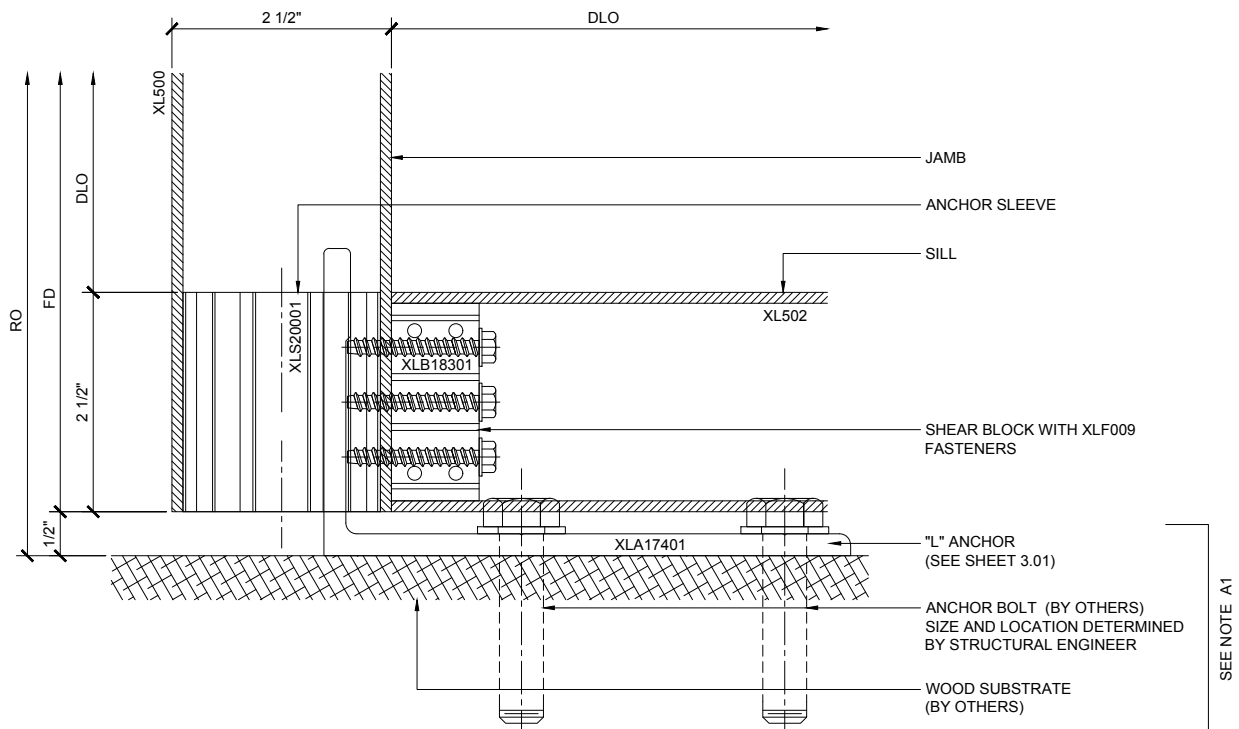




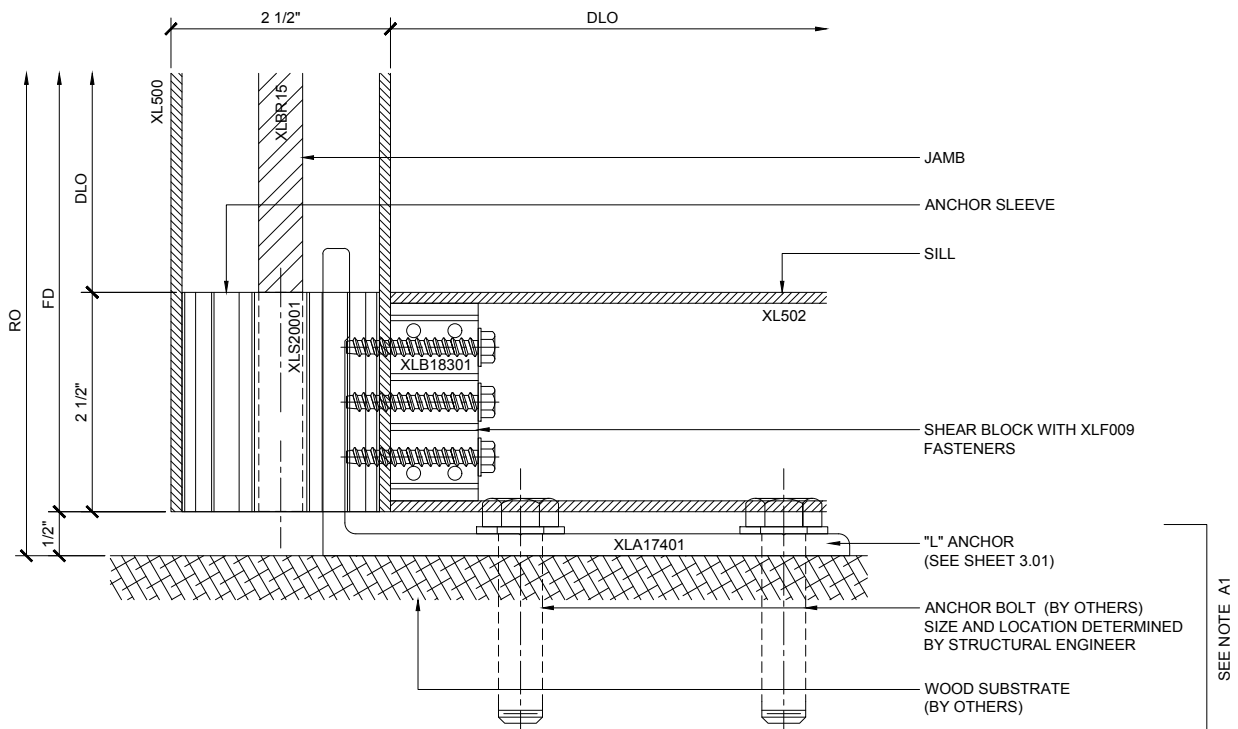
**JAMB ANCHOR AT HEAD** (22A)  
NO STEEL REINFORCEMENT FOR WOOD SUBSTRATE



**JAMB ANCHOR AT HEAD** (23A)  
XLBR15 FOR WOOD SUBSTRATE



**JAMB ANCHOR AT SILL** (22B)  
NO STEEL REINFORCEMENT FOR WOOD SUBSTRATE



**JAMB ANCHOR AT SILL** (23B)  
XLBR15 FOR WOOD SUBSTRATE

## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

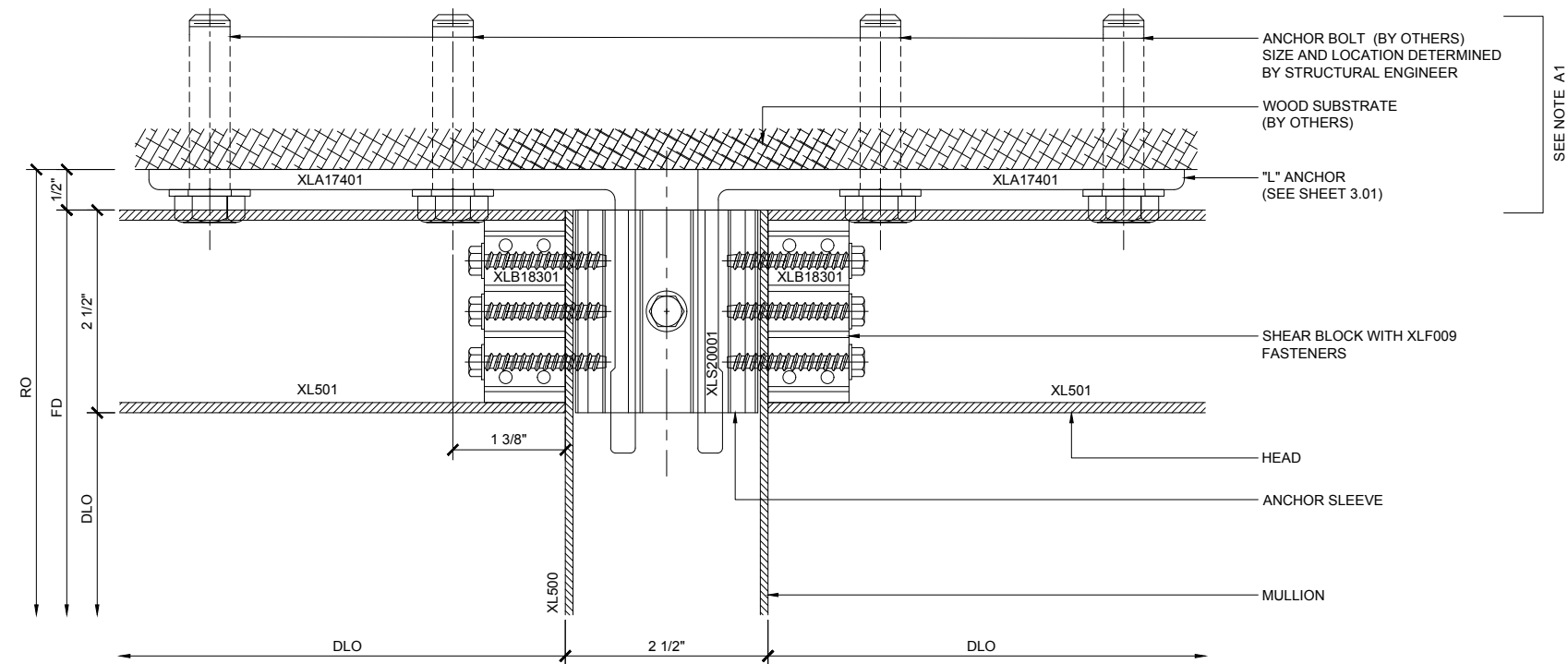
Revisions By:

**CAL ALUMINUM**  
C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS  
2503 E. Vernon Avenue, Los Angeles, CA 90058-1897  
PH (800) 421-6144 FX 800-387-7501 www.crlaurence.com

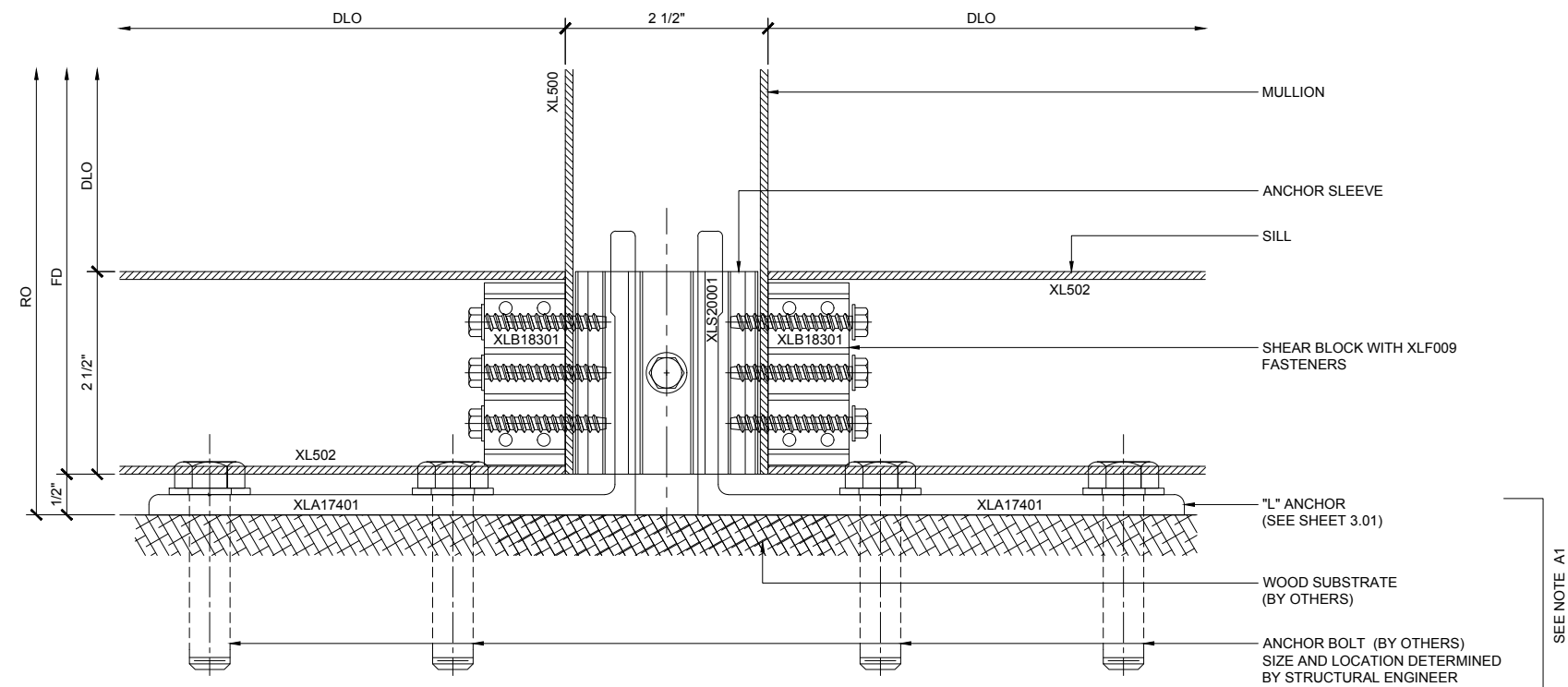
Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD  
Date: 02/03/17  
Scale: AS NOTED  
File Name: StormWallXL.dwg  
Sheet

2.20

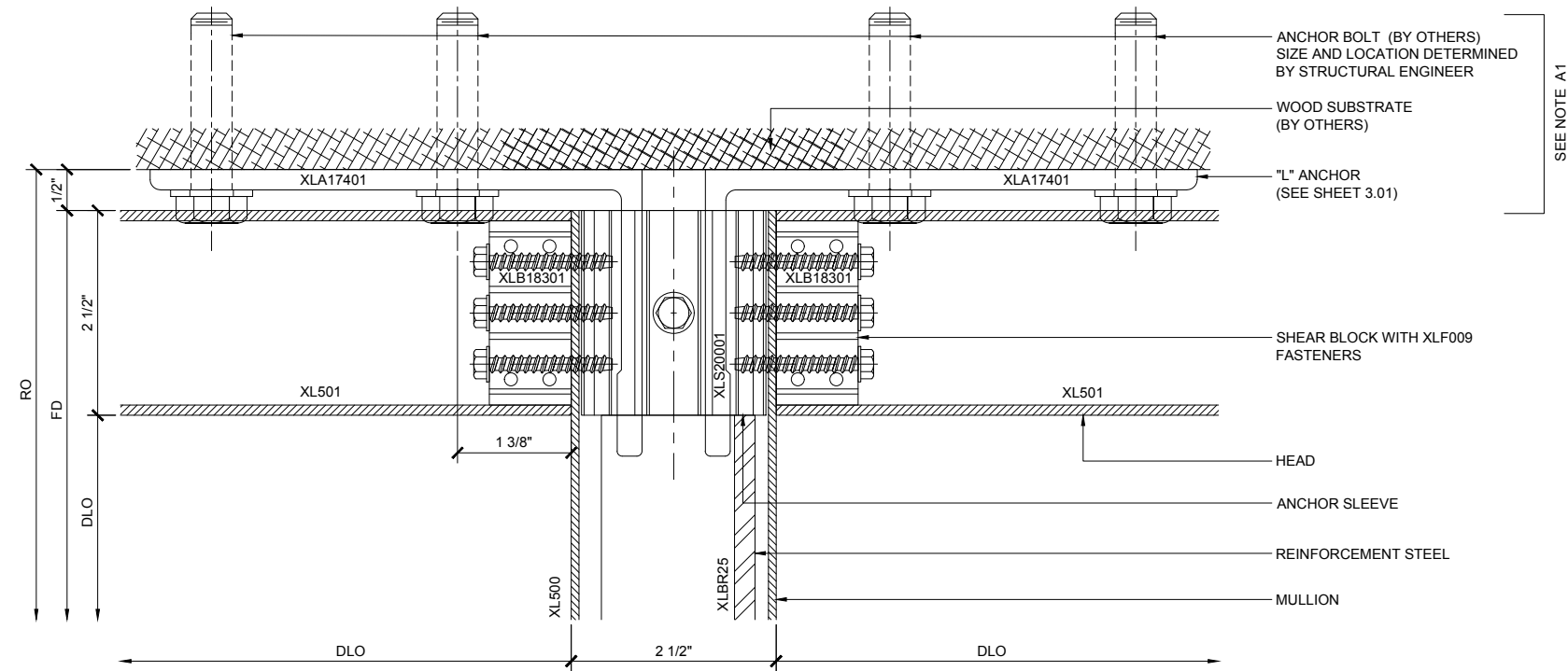


**MULLION ANCHOR AT HEAD** (24A)  
NO STEEL REINFORCEMENT FOR WOOD SUBSTRATE

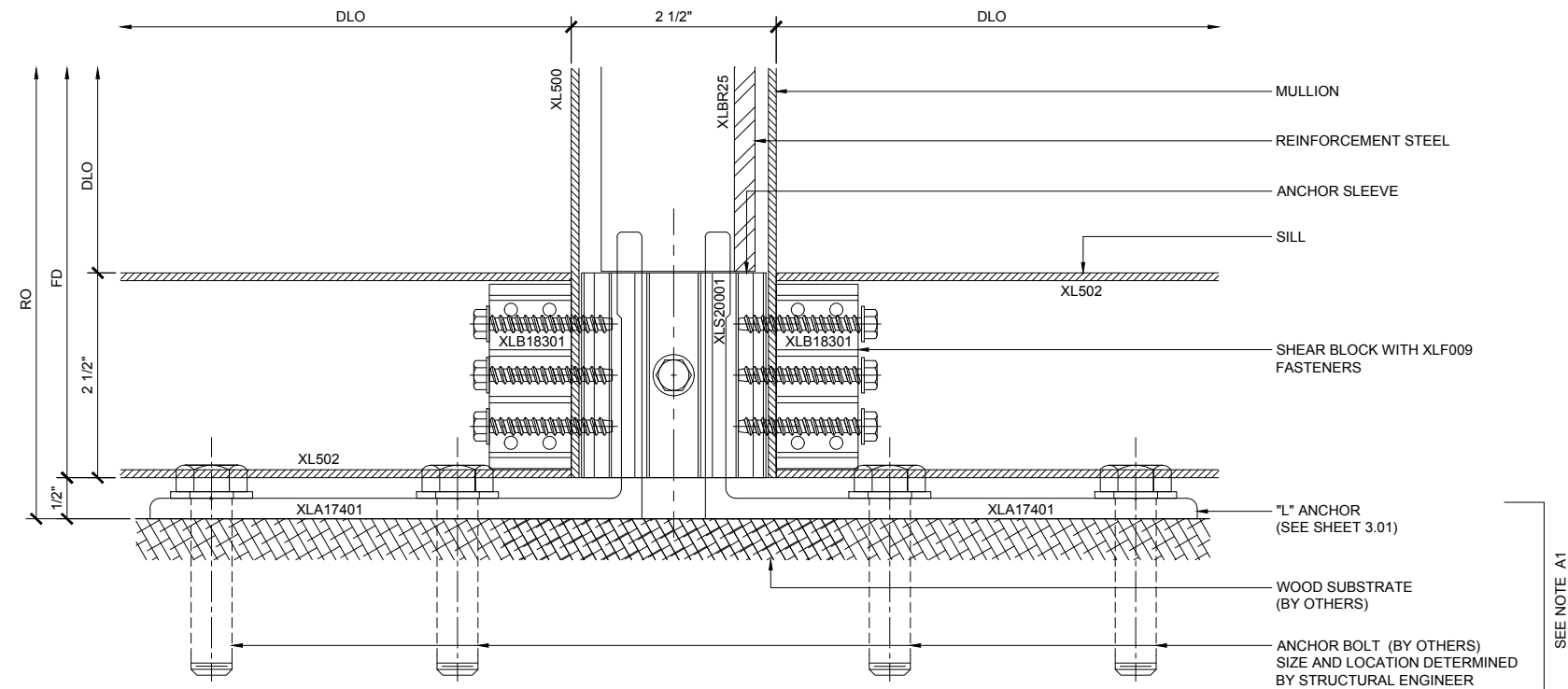


**MULLION ANCHOR AT SILL** (24B)  
NO STEEL REINFORCEMENT FOR WOOD SUBSTRATE

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 <p>C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897 PH (800) 421-6144 FX 800-587-7501 www.crlaurence.com</p>	
<p>Discription:</p> <p><b>U.S. ALUMINUM STORM WALL XL HURRICANE RESISTANT CURTAIN WALL SYSTEM</b></p>	
<p>Drawn By: RPD Date: 02/03/17 Scale: AS NOTED File Name: StormWallXL.dwg</p>	
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2.21	



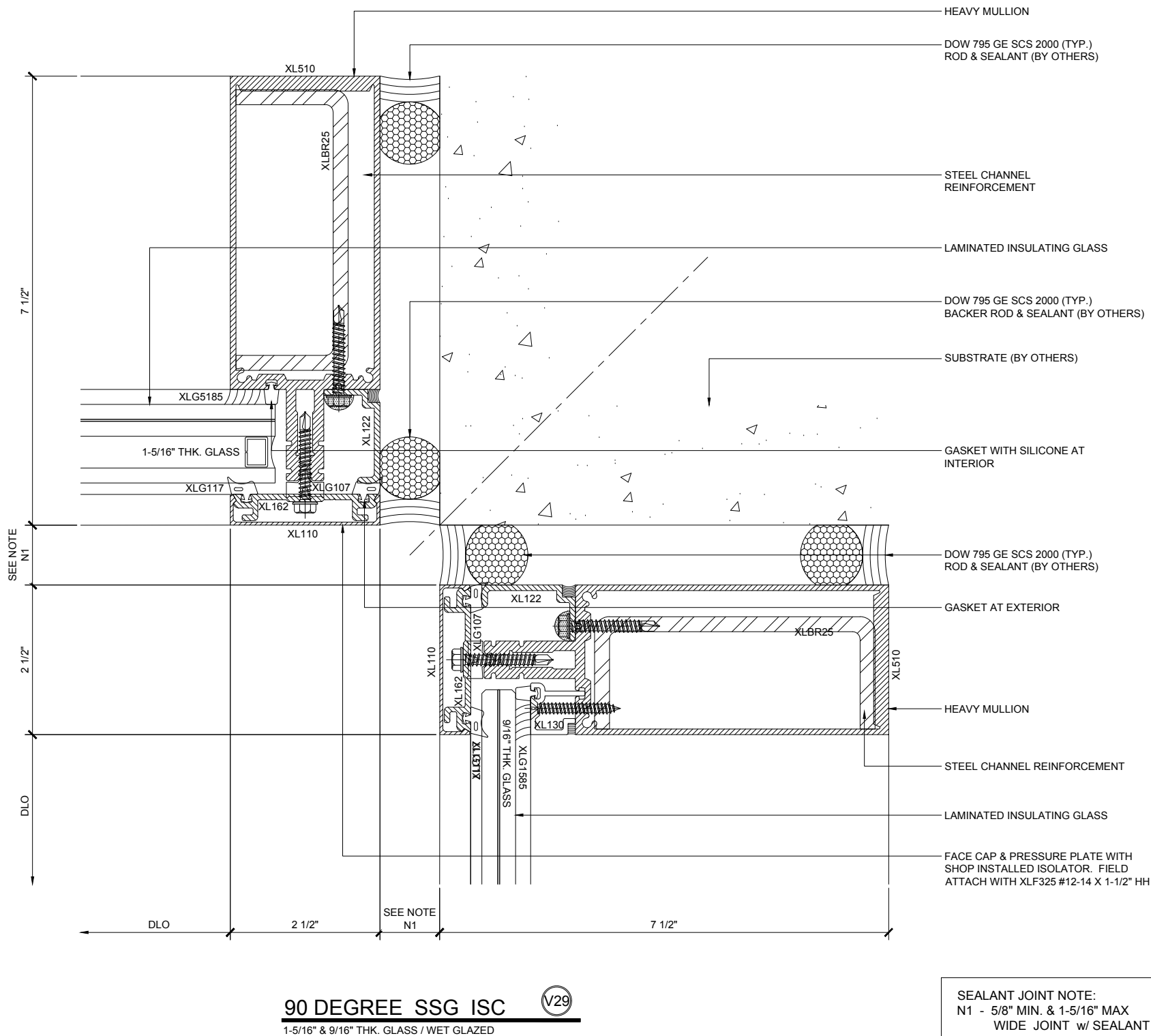
**MULLION ANCHOR AT HEAD** (25A)  
XLBR25 FOR WOOD SUBSTRATE



**MULLION ANCHOR AT SILL** (25B)  
XLBR25 FOR WOOD SUBSTRATE

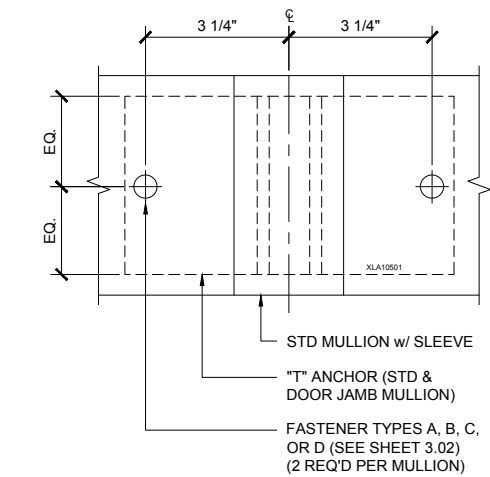
Revisions By:	
 C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897 PH (800) 421-6144 FX 800-587-7501 www.crlaurence.com	
Description: U.S. ALUMINUM STORM WALL XL HURRICANE RESISTANT CURTAIN WALL SYSTEM	
Drawn By: RPD Date: 02/03/17 Scale: AS NOTED File Name: StormWallXL.dwg	
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2.22	





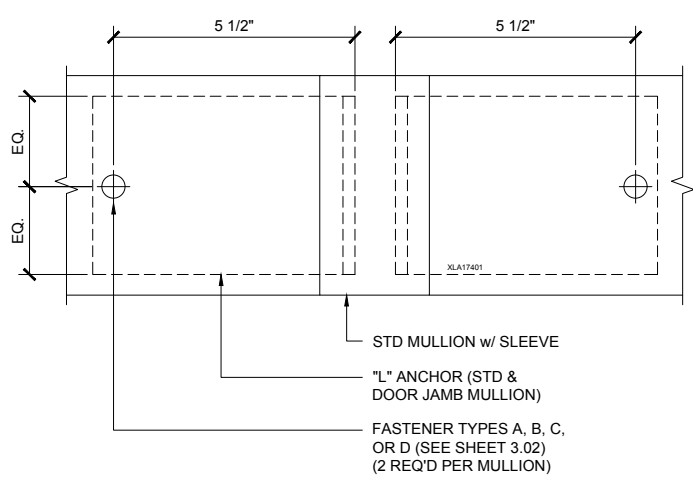
Revisions By:	
 <p>C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897 PH (800)-421-6144 FX 800-587-7501 www.crlaurence.com</p>	
<p>Discription:</p> <p>U.S. ALUMINUM STORM WALL XL HURRICANE RESISTANT CURTAIN WALL SYSTEM</p>	
<p>Drawn By: RPD Date: 02/03/17 Scale: AS NOTED File Name: StormWallXL.dwg</p>	
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APPLICABILITY OR REQUIRED ANCHORS & FASTENERS FOR MULLION TYPE & SUBSTRATE (SCHEMATIC)



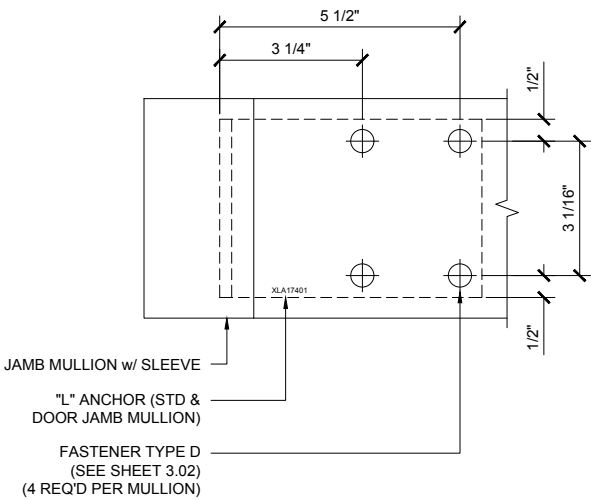
INSTALLATIONS w/ "T" ANCHOR  
 FOR CONCRETE & STEEL SUBSTRATE

N.T.S.



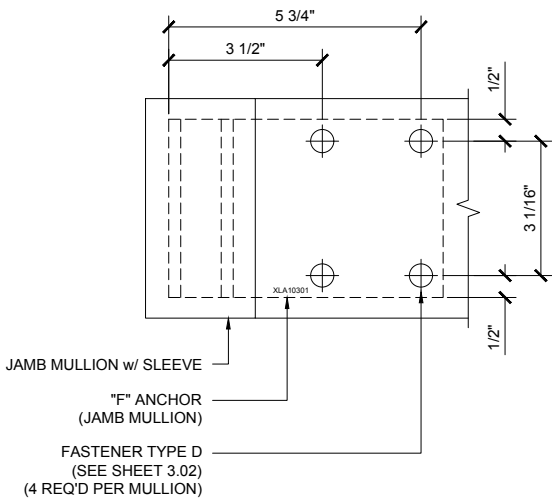
INSTALLATIONS w/ "L" ANCHOR \*  
 FOR CONCRETE & STEEL SUBSTRATE

N.T.S.



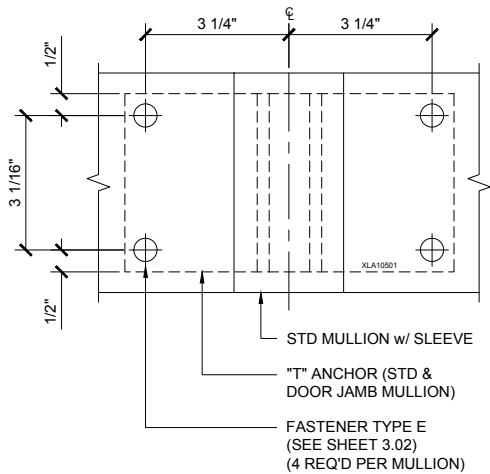
INSTALLATIONS w/ "L" ANCHOR \*  
 FOR CONCRETE & STEEL SUBSTRATE

N.T.S.



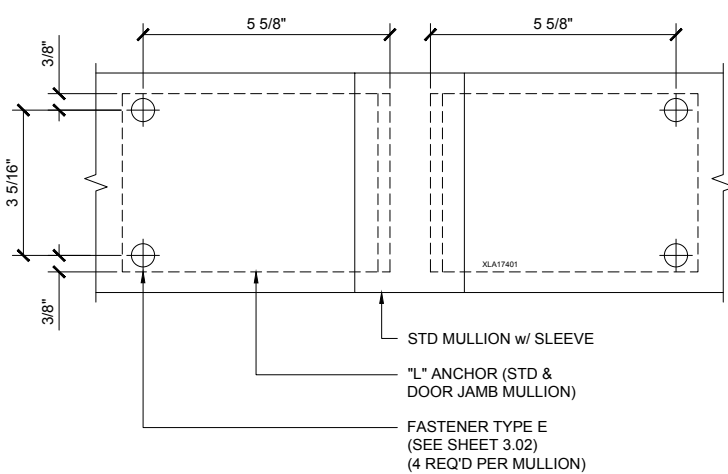
INSTALLATIONS w/ "F" ANCHOR  
 FOR CONCRETE & STEEL SUBSTRATE

N.T.S.



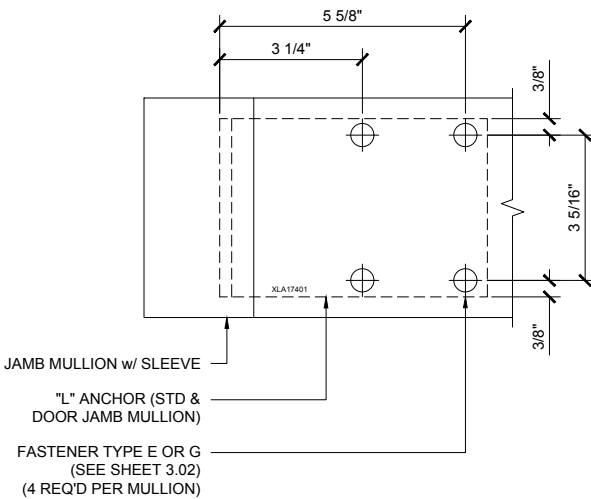
INSTALLATIONS w/ "T" ANCHOR  
 FOR WOOD SUBSTRATE

N.T.S.



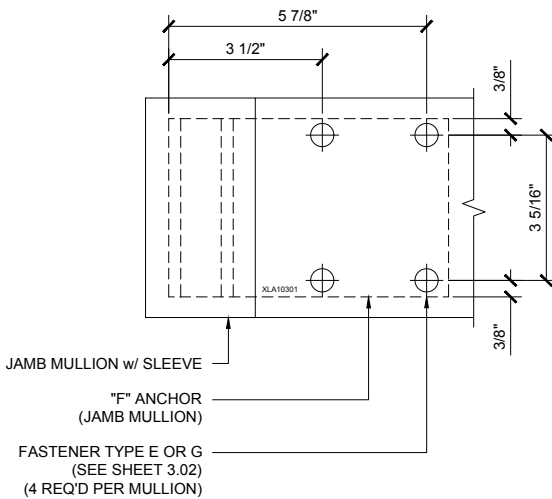
INSTALLATIONS w/ "L" ANCHOR \*  
 FOR WOOD SUBSTRATE

N.T.S.



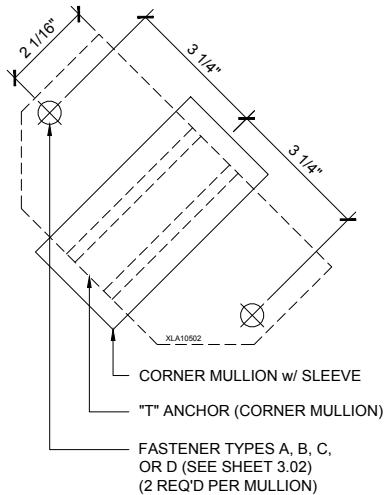
INSTALLATIONS w/ "L" ANCHOR \*  
 FOR WOOD SUBSTRATE

N.T.S.



INSTALLATIONS w/ "F" ANCHOR  
 FOR WOOD SUBSTRATE

N.T.S.



INSTALLATION OF CORNER  
 MULLION w/ HW-105-02 "T" ANCHOR  
 FOR CONCRETE & STEEL SUBSTRATE

N.T.S.

STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

Revisions By:

U.S. ALUMINUM  
 C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS  
 2503 E. Vernon Avenue, Los Angeles, CA 90058-1897  
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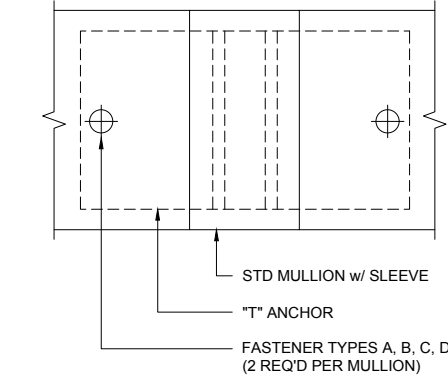
Description:  
 U.S. ALUMINUM  
 STORM WALL XL  
 HURRICANE RESISTANT  
 CURTAIN WALL SYSTEM

Drawn By: RPD  
 Date: 02/03/17  
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 File Name: StormWallXL.dwg  
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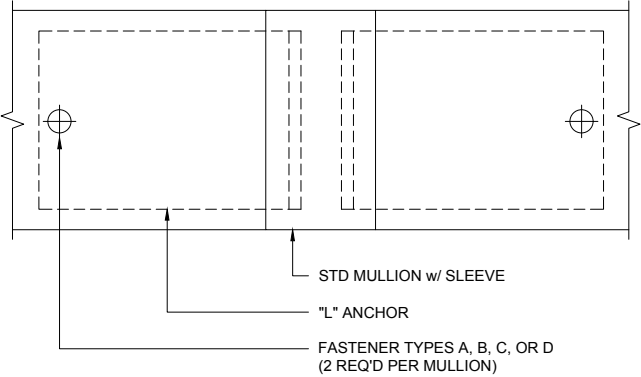


MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR SINGLE & TWIN SPAN HEAD & SILL STANDARD OR CORNER MULLION CONNECTIONS

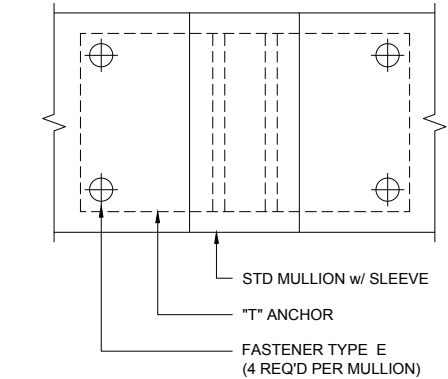
HEAD & SILL CONNECTION FASTENERS A, B, C & D					
MAXIMUM MULLION SPAN	EFFECTIVE SPACING	MAX. A.S.D. DESIGN PRESSURE RATING			
		POURED CONCRETE (MIN. fc = 3 ksi) SUBSTRATE			1/4" Min. THK. ASTM-36 STEEL SUBSTRATE
		FASTENER TYPES			
		A	B	C	
"L" (ft-in)	"b" (ft-in)	A	B	C	D
8'-0"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	100.0	100.0
	5' - 6"	100.0	100.0	100.0	100.0
	6' - 0"	100.0	100.0	100.0	100.0
8'-6"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	100.0	100.0
	5' - 6"	100.0	100.0	100.0	100.0
	6' - 0"	100.0	100.0	100.0	100.0
9'-0"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	100.0	100.0
	5' - 6"	100.0	100.0	100.0	100.0
	6' - 0"	100.0	100.0	100.0	100.0
9'-6"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	100.0	100.0
	5' - 6"	100.0	100.0	100.0	100.0
	6' - 0"	100.0	100.0	97.1	100.0
10'-0"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	100.0	100.0
	5' - 6"	100.0	100.0	100.0	100.0
	6' - 0"	100.0	100.0	100.0	100.0
10'-6"	3' - 6"	100.0	100.0	92.2	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	100.0	100.0
	5' - 6"	100.0	100.0	95.8	100.0
	6' - 0"	100.0	100.0	87.8	100.0
11'-0"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	100.0	100.0
	5' - 6"	100.0	100.0	91.5	100.0
	6' - 0"	100.0	100.0	83.6	99.8
11'-6"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	96.2	100.0
	5' - 6"	100.0	100.0	87.5	100.0
	6' - 0"	100.0	100.0	80.2	95.3
12'-0"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	100.0	100.0
	5' - 0"	100.0	100.0	92.2	100.0
	5' - 6"	100.0	100.0	83.8	100.0
	6' - 0"	97.4	96.4	76.8	95.3
12'-6"	3' - 6"	100.0	100.0	100.0	100.0
	4' - 0"	100.0	100.0	100.0	100.0
	4' - 6"	100.0	100.0	98.4	100.0
	5' - 0"	100.0	100.0	88.5	100.0
	5' - 6"	100.0	100.0	80.5	95.7
	6' - 0"	93.5	92.6	73.8	87.7



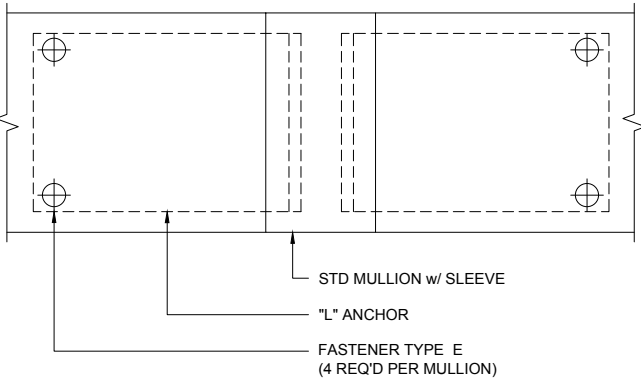
SCHEMATIC "T" ANCHOR / SLEEVE CONNECTION DETAIL FOR FASTENERS A, B, C, & D



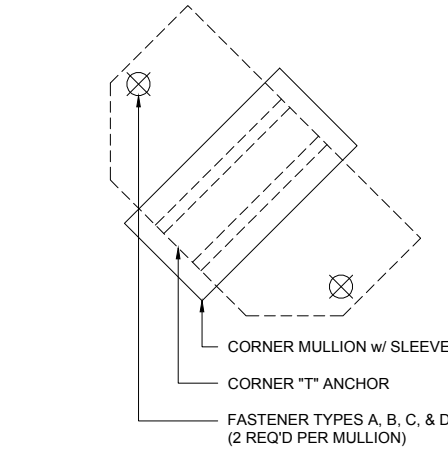
SCHEMATIC "L" ANCHORS / SLEEVE CONNECTION DETAIL FOR FASTENERS A, B, C & D



SCHEMATIC "T" ANCHOR / SLEEVE CONNECTION DETAIL FOR FASTENER E



SCHEMATIC "L" ANCHOR / SLEEVE CONNECTION DETAIL FOR FASTENER E



SCHEMATIC "T" ANCHOR / SLEEVE CONNECTION DETAIL FOR FASTENERS A, B, C, & D

B FASTENERS TYPES REQUIREMENTS

- A - 1/2" Ø HILTI KWIK BOLT TZ ANCHOR w/ 3-1/4" MIN. EMBEDMENT INTO 8" MIN. THICK POURED CONCRETE (MIN. fc = 3 ksi) BEYOND ANY FINISH MATERIAL w/ 6" MIN. EDGE DISTANCE
- B - 1/2" Ø HILTI KWIK BOLT TZ ANCHOR w/ 3-1/4" MIN. EMBEDMENT INTO 8" MIN. THICK POURED CONCRETE (MIN. fc = 3 ksi) BEYOND ANY FINISH MATERIAL w/ 7-1/2" MIN. EDGE DISTANCE
- C - 1/2" Ø HILTI KWIK HUS - H SCREW ANCHOR w/ 3" MIN. EMBEDMENT INTO 4" MIN. THICK POURED CONCRETE (MIN. fc = 3 ksi) BEYOND ANY FINISH MATERIAL w/ 3-3/4" MIN. EDGE DISTANCE
- D - 1/2" -13 TYPE "F" GRADE 5 BOLT TO 1/4" MIN. THK. ASTM A-36 STEEL w/ 1" MIN. EDGE OR 1/2" Ø SAE GALVANIZED STEEL GRADE 5 HHB THRU BOLT w/ NUT & LOCK WASHER TO 1/4" MIN. THK. ASTM A-36 STEEL w/ 1" MIN. EDGE DISTANCE
- E - 3/8" Ø LAG SCREW w/ 3" MIN. EMBEDMENT INTO G = 0.55" MIN. SPECIFY GRAVITY WOOD SUBSTRATE w/ 1-1/2" MIN. EDGE DISTANCE.

SINGLE & TWIN SPAN HEAD & SILL CONNECTION		
MAXIMUM MULLION SPAN	EFFECTIVE SPACING	MAX. A.S.D. DESIGN PRESSURE RATING
		WOOD SUBSTRATE
		FASTENER E
6'-0"	3' - 0"	70.0
	3' - 6"	70.0
	4' - 0"	70.0
	4' - 6"	70.0
	5' - 0"	64.7
6'-6"	3' - 0"	70.0
	3' - 6"	70.0
	4' - 0"	70.0
	4' - 6"	66.4
	5' - 0"	59.7
7'-0"	3' - 0"	70.0
	3' - 6"	70.0
	4' - 0"	69.3
	4' - 6"	61.6
	5' - 0"	55.5
7'-6"	3' - 0"	70.0
	3' - 6"	70.0
	4' - 0"	64.7
	4' - 6"	57.5
	5' - 0"	51.8
8'-0"	3' - 0"	70.0
	3' - 6"	69.0
	4' - 0"	60.7
	4' - 6"	53.9
	5' - 0"	48.5
8'-6"	3' - 0"	70.0
	3' - 6"	65.0
	4' - 0"	57.1
	4' - 6"	50.7
	5' - 0"	45.7
9'-0"	3' - 0"	70.0
	3' - 6"	62.0
	4' - 0"	53.9
	4' - 6"	47.9
	5' - 0"	43.1

SINGLE & TWIN SPAN HEAD & SILL CONNECTION						
MAXIMUM MULLION SPAN	EFFECTIVE SPACING	POURED CONCRETE (MIN. fc = 3 ksi) SUBSTRATE			1/4" Min. THK. ASTM-36 STEEL SUBSTRATE	
		FASTENER TYPES				FASTENER
		A	B	C	D	
		12'-6" OR LESS	3' - 0"	90.0	90.0	
	3' - 6"	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	

Revisions By:

U.S. ALUMINUM

STORM WALL XL

HURRICANE RESISTANT CURTAIN WALL SYSTEM

Discription:

Drawn By: RPD

Date: 02/03/17

Scale: AS NOTED

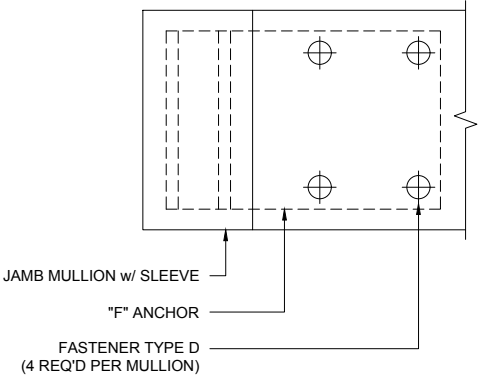
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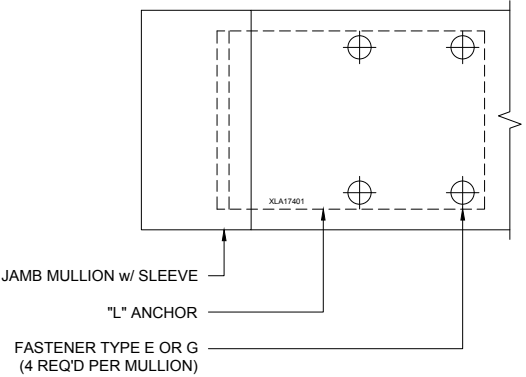
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MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR SINGLE & TWIN SPAN HEAD & SILL JAMB OR DOOR JAMB MULLION CONNECTIONS

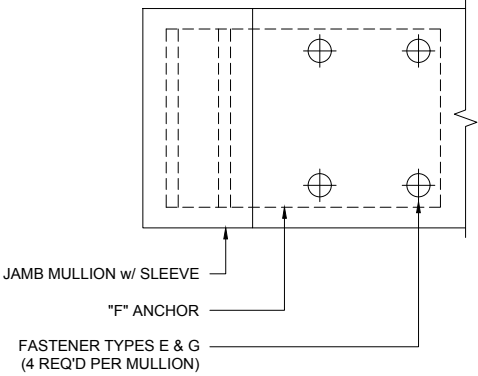
SINGLE & TWIN SPAN HEAD & SILL CONNECTION			
MAXIMUM MULLION SPAN	EFFECTIVE SPACING	MAX. A.S.D. DESIGN PRESSURE RATING	
		1/4" Min. THK. ASTM-36 STEEL SUBSTRATE	POURED CONCRETE (MIN. fc = 3 ksi) SUBSTRATE
		FASTENER	FASTENER
"L" (ft-in)	"b" (ft-in)	D	G
12'-0" OR LESS	3' - 6"	100.0	100.0
	4' - 0"	100.0	100.0
	4' - 6"	100.0	100.0
	5' - 0"	100.0	100.0
	5' - 6"	100.0	100.0
12'-6"	6' - 0"	100.0	100.0
	3' - 6"	100.0	100.0
	4' - 0"	100.0	100.0
	4' - 6"	100.0	100.0
	5' - 0"	100.0	100.0
	5' - 6"	90.5	90.5
	6' - 0"	83.3	83.3



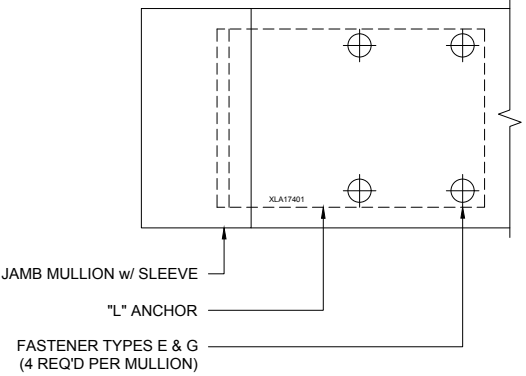
SCHEMATIC "F" ANCHOR / SLEEVE CONNECTION DETAIL FOR FASTENER D \*



SCHEMATIC "L" ANCHOR / SLEEVE CONNECTION DETAIL FOR FASTENER D \*



SCHEMATIC "F" ANCHOR / SLEEVE CONNECTION DETAIL FOR FASTENERS E & G \*



SCHEMATIC "L" ANCHOR / SLEEVE CONNECTION DETAIL FOR FASTENERS E & G \*

**B** FASTENERS TYPES REQUIREMENTS

- D** - 1/2" Ø - 13 TYPE "F" GRADE 5 BOLT TO 1/4" MIN. THK. ASTM A-36 STEEL w/ 1" MIN. EDGE DISTANCE OR 1/2" Ø - 13 SAE GALVANIZED STEEL GRADE 5 HHB THRU BOLT w/ NUT & LOCK WASHER TO 1/4" MIN. THK. ASTM A-36 STEEL w/ 1" MIN. EDGE DISTANCE.
- E** - 1/2" Ø LAG SCREW w/ 3" MIN. EMBEDMENT INTO G = 0.55" MIN. SPECIFY GRAVITY WOOD SUBSTRATE w/ 1-1/2" MIN. EDGE DISTANCE.
- F** - 1/2" Ø POWER FASTENERS WEDGE BOLT, w/ 3-1/2" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (fc = 3 ksi) BEYOND ANY FINISH MATERIAL w/ 6" MIN. EDGE DISTANCE.
- G** - 1/2" Ø POWER FASTENERS WEDGE BOLT, w/ 3-1/2" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (fc = 3 ksi) BEYOND ANY FINISH MATERIAL w/ 4-1/2" MIN. EDGE DISTANCE.

SINGLE & TWIN SPAN HEAD & SILL CONNECTION		
MAXIMUM MULLION SPAN	EFFECTIVE SPACING	MAX. A.S.D. DESIGN PRESSURE RATING
		POURED CONCRETE (MIN. fc = 3 ksi) SUBSTRATE
		FASTENER F
"L" (ft-in)	"b" (ft-in)	
12'-6" OR LESS	3' - 6"	80.0
	4' - 0"	80.0
	4' - 6"	80.0
	5' - 0"	80.0
	5' - 6"	80.0
	6' - 0"	80.0

NOTE :  
SEE CONNECTION  
DETAILS ON SHEETS 20 & 26  
FOR FASTENERS QUANTITY  
& LOCATION AT MULLION

SINGLE & TWIN SPAN HEAD & SILL CONNECTION		
MAXIMUM MULLION SPAN	EFFECTIVE SPACING	MAX. A.S.D. DESIGN PRESSURE RATING
		WOOD SUBSTRATE FASTENER E
"L" (ft-in)	"b" (ft-in)	
6'-0"	4' - 0"	70.0
	4' - 6"	70.0
	5' - 0"	64.7
6'-6"	4' - 0"	70.0
	4' - 6"	66.4
	5' - 0"	59.7
7'-0"	4' - 0"	69.3
	4' - 6"	61.6
	5' - 0"	55.5
7'-6"	4' - 0"	64.7
	4' - 6"	57.5
	5' - 0"	51.8
8'-0"	4' - 0"	60.7
	4' - 6"	53.9
	5' - 0"	48.5
8'-6"	4' - 0"	57.1
	4' - 6"	50.7
	5' - 0"	45.7
9'-0"	4' - 0"	53.9
	4' - 6"	47.9
	5' - 0"	43.1

Revisions By:

U.S. ALUMINUM

STORM WALL XL

HURRICANE RESISTANT

CURTAIN WALL SYSTEM

Discription:

U.S. ALUMINUM

STORM WALL XL

HURRICANE RESISTANT

CURTAIN WALL SYSTEM

Drawn By: RPD

Date: 02/03/17

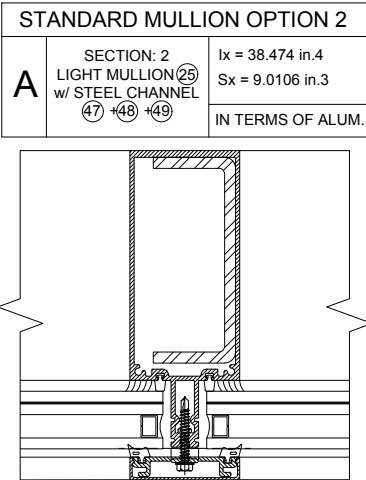
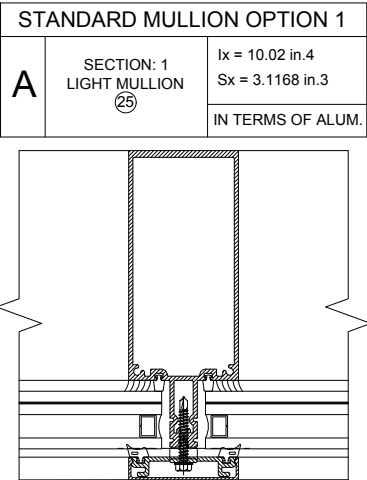
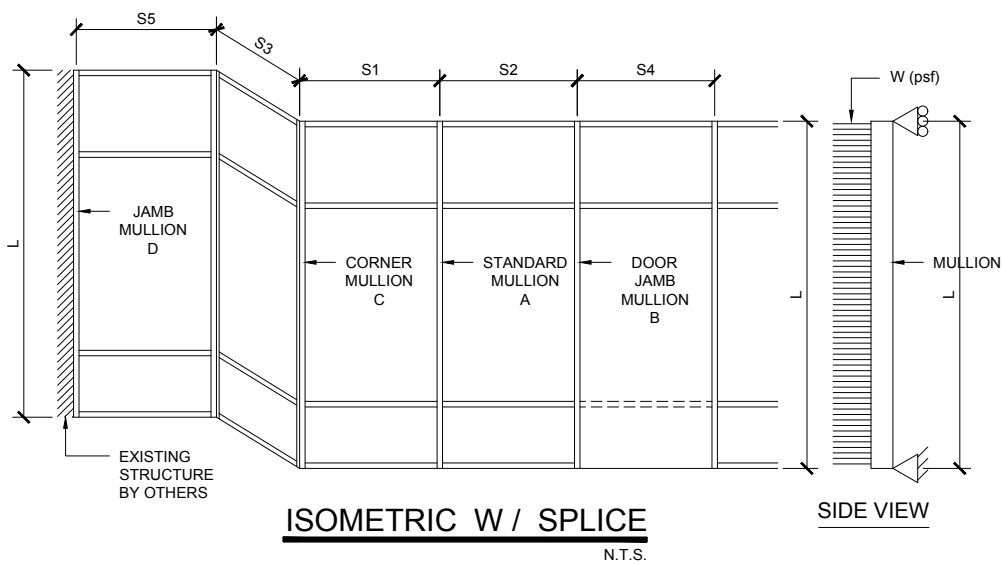
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3.03

SINGLE SPAN MULLION



DEFINITION OF MULLION SECTIONS

- SECTION 1: SINGLE SPAN UNREINFORCED STANDARD MULLION A OPTION 1 (SEE SECT. 7A / 3.14)
- SECTION 2: SINGLE SPAN REINFORCED STANDARD MULLION A OPTION 2 (SEE SECT. 7B / 3.14)
- SECTION 2A: SINGLE SPAN REINFORCED STANDARD MULLION A OPTION 2A (SEE SECT. 7C / 3.14)
- SECTION 3: SINGLE SPAN UNREINFORCED STANDARD HEAVY MULLION A OPTION 3 (SEE SECT. 7N / 3.14)
- SECTION 4: SINGLE SPAN REINFORCED STANDARD MULLION A OPTION 4 (SEE SECT. 7D / 3.14)
- SECTION 4A: SINGLE SPAN REINFORCED STANDARD MULLION A OPTION 4A (SEE SECT. 7O / 3.14)
- SECTION 5: SINGLE SPAN REINFORCED DOOR JAMB MULLION B (SEE DET. 12 / 3.15)
- SECTION 6: SINGLE SPAN REINFORCED CORNER MULLION C (SEE DET. 7G / 3.15)
- SECTION 7: SINGLE SPAN REINFORCED JAMB MULLION D OPTION 1 (SEE DET. 7K / 3.15)
- SECTION 8: SINGLE SPAN REINFORCED JAMB MULLION D OPTION 2 (SEE DET. 7H / 3.15)
- SECTION 9: SINGLE SPAN LIGHT REINFORCED JAMB MULLION D OPTION 3 (SEE DET. 7J / 3.15)

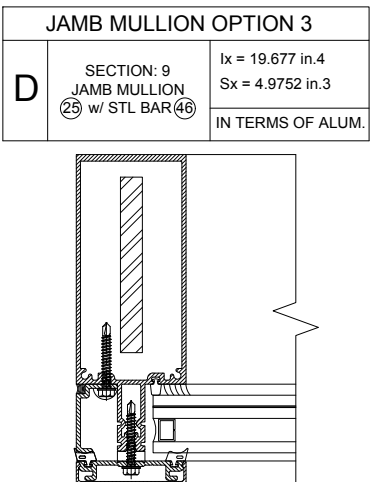
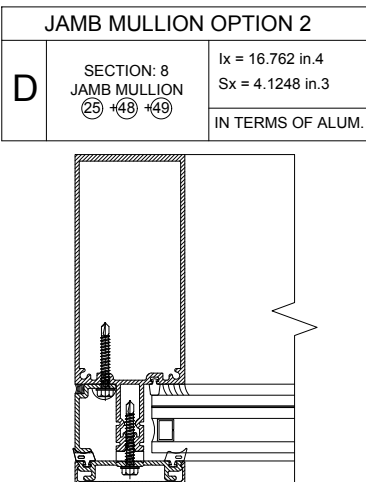
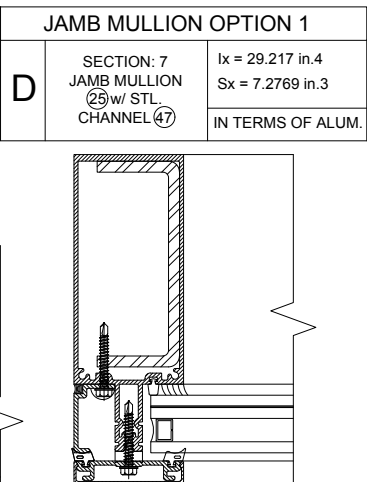
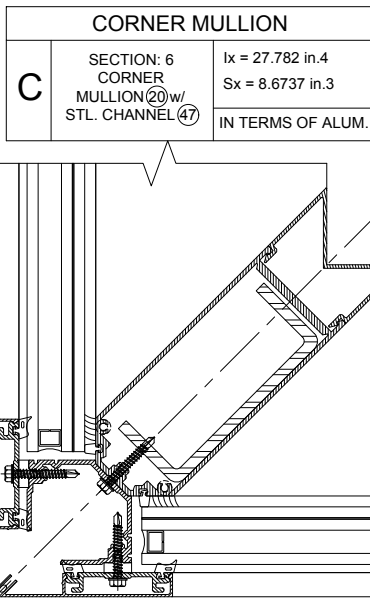
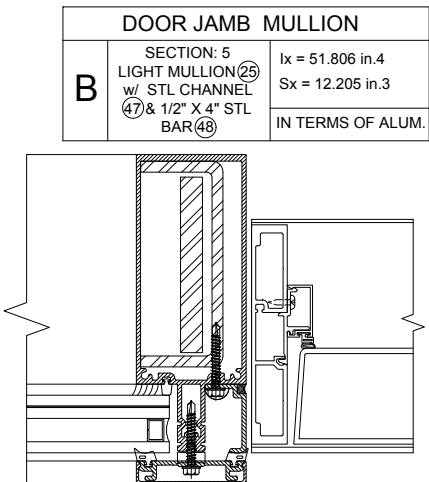
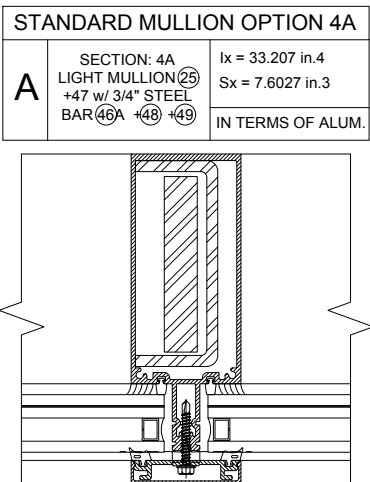
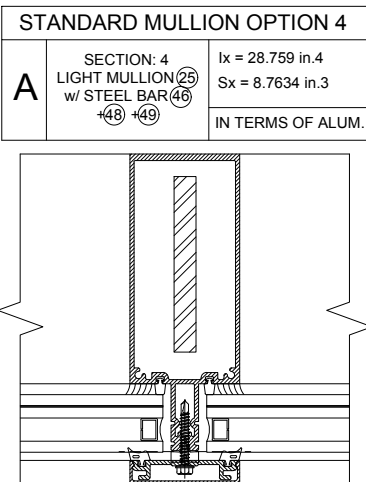
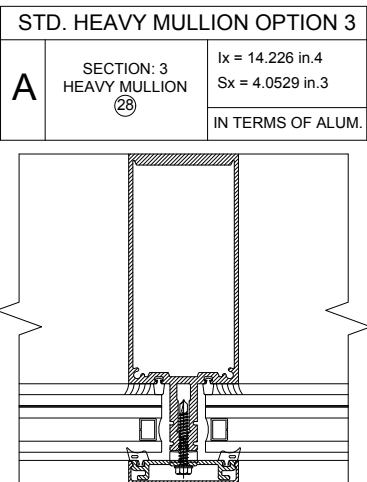
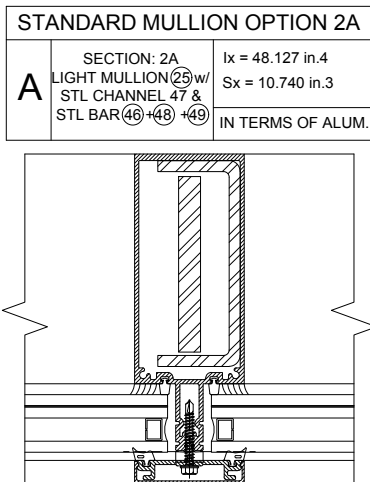
L = MULLION SPAN : S1, S2, S3, S4 & S5 = MULLION SPACING

EFFECTIVE SPACING  $b = \frac{S1 + S2}{2}$   
(FOR STANDARD MULLION)

EFFECTIVE SPACING  $b = \frac{S1 + S3}{2}$   
(FOR CORNER MULLION)

EFFECTIVE SPACING  $b = \frac{S2 + S4}{2}$   
(FOR DOOR JAMB MULLION)

EFFECTIVE SPACING  $b = \frac{S5}{2}$   
(FOR JAMB MULLION)



STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

Revisions By:

**U.S. ALUMINUM**  
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Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

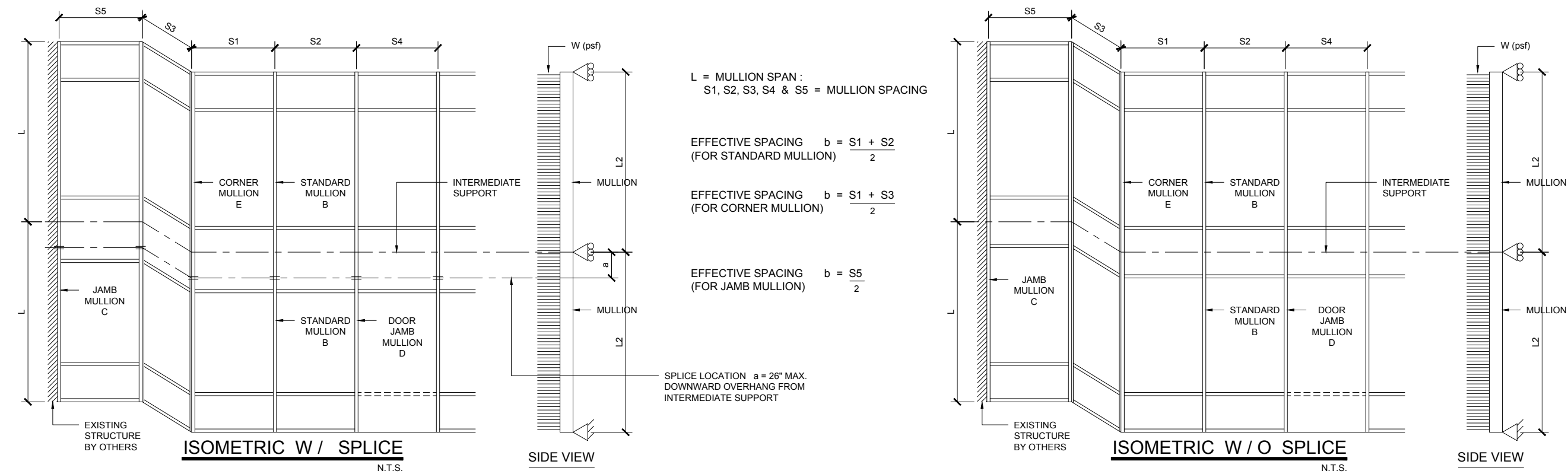
Drawn By: RPD  
Date: 02/03/17  
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MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD,  
DOOR JAMB, CORNER & JAMB MULLIONS FOR SINGLE SPAN

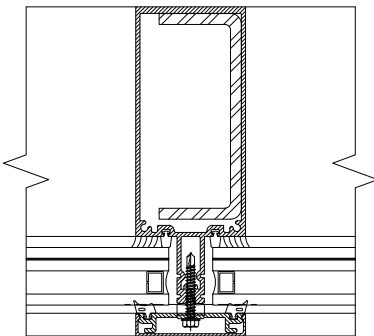
MAXIMUM MULLION SINGLE SPAN "L" (FT.) SCHEDULE FOR A GIVEN A.S.D. DESIGN  
PRESSURE RATING (psf) AND A GIVEN MULLION EFFECTIVE SPACING "b"

MAX. A.S.D. DESIGN PRESSURE RATING	EFFECTIVE SPACING	SINGLE SPAN MULLION									
		SECTION 1	SECTION 2	SECTION 2A	SECTION 3	SECTION 4	SECTION 4A	SECTION 6	SECTION 7	SECTION 8	SECTION 9
		STANDARD MULLION A	STANDARD MULLION A	STANDARD MULLION A	STANDARD MULLION A	STANDARD MULLION A	STANDARD MULLION A	CORNER MULLION C	JAMB MULLION D	JAMB MULLION D	JAMB MULLION D
(psf)	"b" (ft-in)	OPTION 1	OPTION 2	OPTION 2A	OPTION 3	OPTION 4	OPTION 4A		OPTION 1	OPTION 2	OPTION 3
	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)
60.0	3' - 6"	8' - 10"	12' - 6"	12' - 6"	8' - 5"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	8' - 10"	12' - 6"	12' - 6"	8' - 5"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	8' - 1"	12' - 6"	12' - 6"	8' - 5"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	7' - 3"	12' - 6"	12' - 6"	7' - 10"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	6' - 7"	12' - 6"	12' - 6"	7' - 2"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
65.0	6' - 0"	6' - 1"	12' - 6"	12' - 6"	8' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	8' - 10"	12' - 6"	12' - 6"	8' - 5"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	8' - 5"	12' - 6"	12' - 6"	8' - 5"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	7' - 5"	12' - 6"	12' - 6"	8' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	6' - 9"	12' - 6"	12' - 6"	7' - 3"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
70.0	5' - 6"	6' - 1"	12' - 6"	12' - 6"	6' - 7"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	6' - 0"	5' - 7"	12' - 6"	12' - 6"	6' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	---	12' - 6"	12' - 6"	8' - 5"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	---	12' - 6"	12' - 6"	8' - 5"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	---	12' - 6"	12' - 6"	7' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
75.0	5' - 0"	---	12' - 6"	12' - 6"	6' - 9"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	---	12' - 6"	12' - 6"	6' - 1"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
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	3' - 6"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	4' - 0"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
80.0	4' - 6"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	5' - 0"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	5' - 6"	---	12' - 6"	12' - 6"	---	12' - 1"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	6' - 0"	---	12' - 6"	12' - 6"	---	11' - 11"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	3' - 6"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
85.0	4' - 0"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	4' - 6"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	5' - 0"	---	12' - 6"	12' - 6"	---	11' - 9"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	5' - 6"	---	12' - 6"	12' - 6"	---	10' - 8"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	6' - 0"	---	11' - 0"	11' - 3"	---	9' - 10"	11' - 8"	12' - 3"	12' - 6"	---	12' - 6"
90.0	3' - 6"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	4' - 0"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	4' - 6"	---	12' - 6"	12' - 6"	---	12' - 4"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	5' - 0"	---	12' - 6"	12' - 6"	---	11' - 1"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	5' - 6"	---	11' - 4"	12' - 6"	---	10' - 1"	12' - 0"	12' - 6"	12' - 6"	---	12' - 6"
95.0	6' - 0"	---	11' - 5"	11' - 7"	---	9' - 3"	11' - 0"	11' - 7"	12' - 6"	---	12' - 6"
	3' - 6"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	4' - 0"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	4' - 6"	---	12' - 6"	12' - 6"	---	11' - 8"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	5' - 0"	---	11' - 10"	12' - 6"	---	10' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
100.0	5' - 6"	---	10' - 9"	12' - 6"	---	9' - 7"	11' - 4"	11' - 11"	12' - 6"	---	12' - 6"
	6' - 0"	---	9' - 10"	11' - 0"	---	8' - 9"	10' - 5"	10' - 11"	12' - 6"	---	12' - 6"
	3' - 6"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	4' - 0"	---	12' - 6"	12' - 6"	---	12' - 6"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"
	4' - 6"	---	12' - 6"	12' - 6"	---	11' - 1"	12' - 6"	12' - 6"	12' - 6"	---	12' - 6"

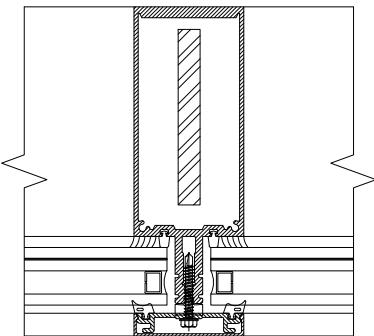
TWIN SPAN MULLION WITH & W/O SPLICE



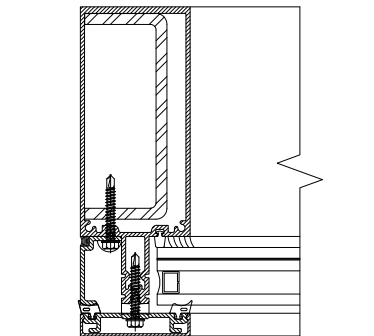
STANDARD MULLION OPTION 1		
B	SECTION: 2 LIGHT MULLION (25) w/ STL CHANNEL (47)	lx = 29.217 in.4 Sx = 7.2769 in.3
	IN TERMS OF ALUM.	



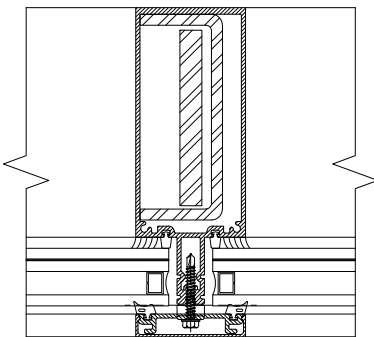
STANDARD MULLION OPTION 2		
B	SECTION: 4 HEAVY MULLION (28) w/ STL. BAR (46) + (48) + (49)	lx = 32.156 in.4 Sx = 7.5841 in.3
	IN TERMS OF ALUM.	



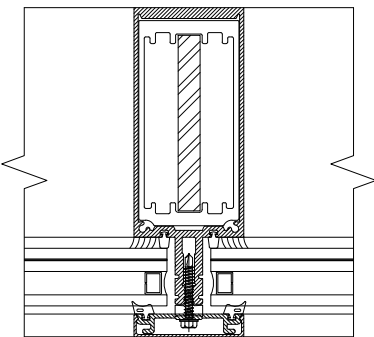
JAMB MULLION		
C	SECTION: 5 JAMB MULLION (25) w/ STL. CHANNEL (47)	lx = 29.217 in.4 Sx = 7.2769 in.3
	IN TERMS OF ALUM.	



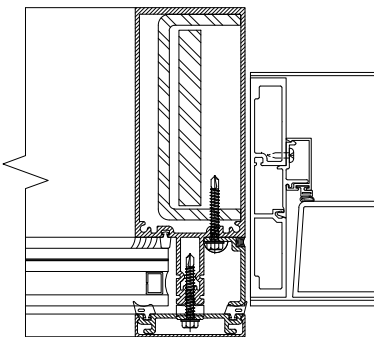
STANDARD MULLION OPTION 1		
B	SECTION: 1 LIGHT MULLION (25) w/ STL CHANNEL (47) & 1/2\" X 4\" STL BAR (46)	lx = 37.488 in.4 Sx = 9.085 in.3
	IN TERMS OF ALUM.	



STANDARD MULLION OPTION 2		
B	SECTION: 3 HEAVY MULLION (28) w/ STL. BAR (46) & SLEEVE (44) + (48) + (49)	lx = 40.8090 in.4 Sx = 9.3365 in.3
	IN TERMS OF ALUM.	



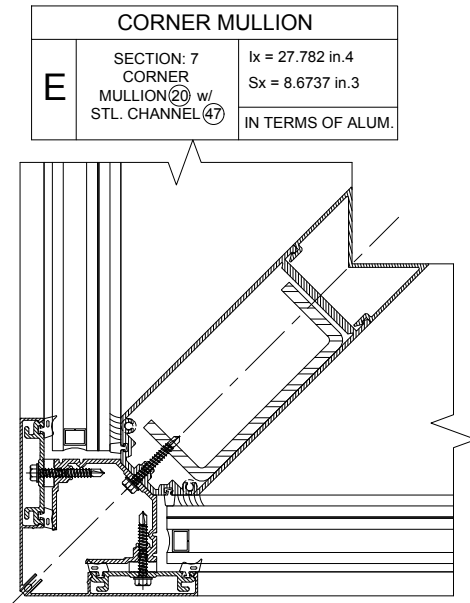
DOOR JAMB MULLION		
D	SECTION: 6 LIGHT MULLION (25) w/ STL CHANNEL (47) & 1/2\" X 4\" STL BAR (46)	lx = 51.806 in.4 Sx = 12.205 in.3
	IN TERMS OF ALUM.	



STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

DEFINITION OF MULLION SECTIONS

- SECTION 1: TWIN SPAN HEAVILY REINFORCED STANDARD MULLION B OPTION 1 (SEE SHEET 3.13 & SECT. 7C / 3.14)
- SECTION 2: TWIN SPAN REINFORCED STANDARD MULLION B OPTION 1 (SEE SHEET 3.13 & SECT. 7B / 3.14)
- SECTION 3: TWIN SPAN REINFORCED HEAVY MULLION B OPTION 2 (SEE SHEET 3.13 & SECT. 7L / 3.14)
- SECTION 4: TWIN SPAN REINFORCED HEAVY MULLION B OPTION 2 (SEE SHEET 3.13 & SECT. 7M / 3.14)
- SECTION 5: TWIN SPAN REINFORCED JAMB MULLION C (SEE SECT. 7K / 3.15)
- SECTION 6: SINGLE SPAN REINFORCED DOOR JAMB MULLION D (SEE SECT. 12 / 3.15)
- SECTION 7: SINGLE SPAN REINFORCED CORNER MULLION E (SEE SECT. 7G / 3.15)



L1 = MULLION SPAN FIRST BAY  
L2 = MULLION SPAN SECOND BAY

Revisions By:

**U.S. ALUMINUM**  
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2503 E. Vernon Avenue, Los Angeles, CA 90058-1897  
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Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD  
Date: 02/03/17  
Scale: AS NOTED  
File Name: StormWallXL.dwg  
Sheet

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR  
STANDARD, JAMB, & CORNER MULLIONS FOR  
TWIN SPAN w/ SPLICED MULLIONS

MAXIMUM MULLION TWIN SPAN "L" (FT.) SCHEDULE  
FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (psf)  
AND A GIVEN MULLION EFFECTIVE SPACING "b"

MAX. A.S.D. DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING	TWIN SPAN MULLION W/ SPLICE			
		SECTIONS 1 & 2 STANDARD MULLION B OPTION 1	SECTIONS 3 & 4 STANDARD MULLION B OPTION 2	SECTION 5 JAMB MULLION C	SECTION 7 CORNER MULLION E
	"b" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)
60.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	6' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
65.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	6' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
70.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	6' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
75.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	6' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
80.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	6' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
85.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	6' - 0"	12' - 3"	12' - 3"	12' - 6"	12' - 6"
90.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	6' - 0"	11' - 7"	11' - 7"	12' - 6"	12' - 6"
95.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	12' - 0"	12' - 0"	12' - 6"	11' - 11"
	6' - 0"	11' - 0"	11' - 0"	12' - 6"	10' - 11"
100.0	3' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
	5' - 6"	11' - 4"	11' - 4"	11' - 4"	11' - 4"
	6' - 0"	10' - 5"	10' - 5"	10' - 5"	10' - 5"

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR  
STANDARD, JAMB, & CORNER MULLIONS FOR TWIN SPAN  
w/ CONTINUOUS (NON SPLICED) MULLIONS

MAXIMUM MULLION TWIN SPAN "L1" (FT.) SCHEDULE FOR  
A GIVEN A.S.D. DESIGN PRESSURE RATING (psf) AND A  
GIVEN MULLION EFFECTIVE SPACING "b"

MAX. A.S.D. DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING	TWIN SPAN MULLION CONTINUOUS (W/O SPLICE)							
		SECTIONS 1 & 2 STANDARD MULLION B OPTION 1		SECTIONS 3 & 4 STANDARD MULLION B OPTION 2		SECTION 5 JAMB MULLION C		SECTION 7 CORNER MULLION E	
		"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)
60.0	3' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	6' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
65.0	3' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	6' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
70.0	3' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	6' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
75.0	3' - 6"	13' - 8"	12' - 6"	13' - 8"	12' - 6"	13' - 8"	12' - 6"	13' - 8"	12' - 6"
	4' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 6"	13' - 10"	12' - 6"	13' - 10"	12' - 6"	13' - 10"	12' - 6"	13' - 10"	12' - 6"
	6' - 0"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"	12' - 6"
80.0	3' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 0"	14' - 4"	12' - 6"	14' - 4"	12' - 6"	14' - 4"	12' - 6"	14' - 4"	12' - 6"
	5' - 6"	13' - 2"	12' - 6"	13' - 2"	12' - 6"	13' - 2"	12' - 6"	13' - 2"	12' - 6"
	6' - 0"	12' - 6"	12' - 0"	12' - 6"	12' - 0"	12' - 6"	12' - 0"	12' - 6"	12' - 0"
85.0	3' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	5' - 0"	13' - 7"	12' - 6"	13' - 7"	12' - 6"	13' - 7"	12' - 6"	13' - 7"	12' - 6"
	5' - 6"	12' - 6"	12' - 5"	12' - 6"	12' - 5"	12' - 6"	12' - 5"	12' - 6"	12' - 5"
	6' - 0"	12' - 6"	11' - 5"	12' - 6"	11' - 5"	12' - 6"	11' - 5"	12' - 6"	11' - 5"
90.0	3' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 6"	14' - 0"	12' - 6"	14' - 0"	12' - 6"	14' - 0"	12' - 6"	14' - 0"	12' - 6"
	5' - 0"	12' - 10"	12' - 6"	12' - 10"	12' - 6"	12' - 10"	12' - 6"	12' - 10"	12' - 6"
	5' - 6"	12' - 6"	11' - 9"	12' - 6"	11' - 9"	12' - 6"	11' - 9"	12' - 6"	11' - 9"
	6' - 0"	12' - 6"	10' - 9"	12' - 6"	10' - 9"	12' - 6"	10' - 9"	12' - 6"	10' - 9"
95.0	3' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 0"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 6"	13' - 6"	12' - 6"	13' - 6"	12' - 6"	13' - 6"	12' - 6"	13' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 0"	12' - 6"	12' - 0"	12' - 6"	12' - 0"	12' - 6"	12' - 0"
	5' - 6"	12' - 6"	10' - 0"	12' - 6"	10' - 0"	12' - 6"	10' - 0"	12' - 6"	10' - 0"
	6' - 0"	12' - 6"	9' - 6"	12' - 6"	9' - 6"	12' - 6"	9' - 6"	12' - 6"	9' - 6"
100.0	3' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"	14' - 7"	12' - 6"
	4' - 0"	14' - 3"	12' - 6"	14' - 3"	12' - 6"	14' - 3"	12' - 6"	14' - 3"	12' - 6"
	4' - 6"	12' - 10"	12' - 6"	12' - 10"	12' - 6"	12' - 10"	12' - 6"	12' - 10"	12' - 6"
	5' - 0"	12' - 6"	11' - 4"	12' - 6"	11' - 4"	12' - 6"	11' - 4"	12' - 6"	11' - 4"
	5' - 6"	12' - 6"	9' - 9"	12' - 6"	9' - 9"	12' - 6"	9' - 9"	12' - 6"	9' - 9"
	6' - 0"	12' - 6"	8' - 6"	12' - 6"	8' - 6"	12' - 6"	8' - 6"	12' - 6"	8' - 6"

STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

Revisions By:

Discription:

U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD

Date: 02/03/17

Scale: AS NOTED

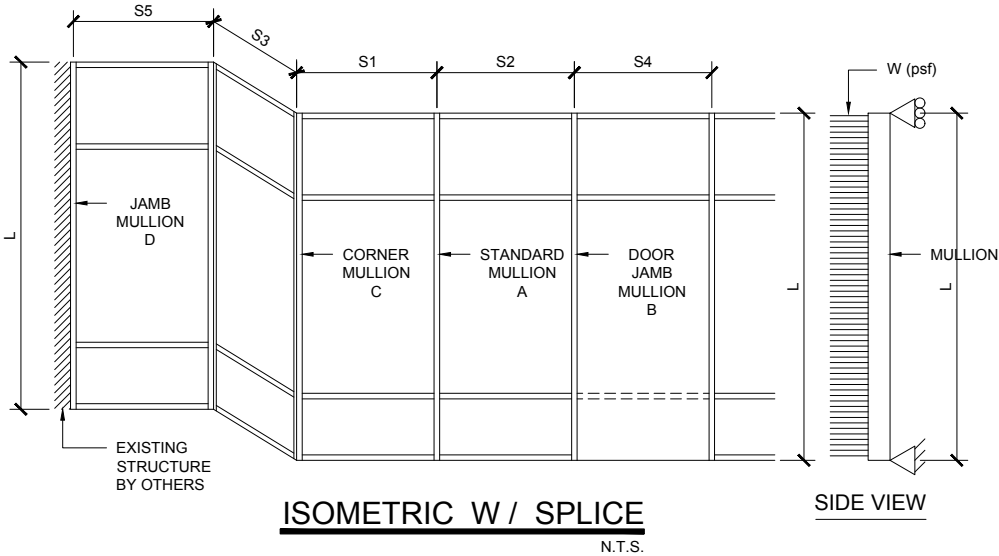
File Name: StormWallXL.dwg

Sheet

3.07

**U.S. ALUMINUM**  
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2503 E. Vernon Avenue, Los Angeles, CA 90058-1897  
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SSG SINGLE SPAN MULLION



L = MULLION SPAN : S1, S2, S3, S4 & S5 = MULLION SPACING

EFFECTIVE SPACING (FOR STANDARD MULLION)  $b = \frac{S1 + S2}{2}$

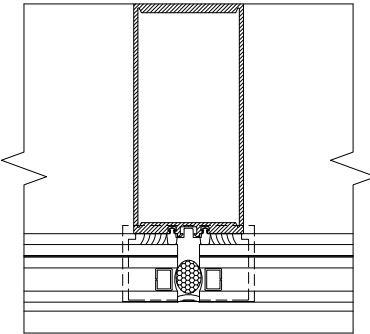
EFFECTIVE SPACING (FOR CORNER MULLION)  $b = \frac{S1 + S3}{2}$

EFFECTIVE SPACING (FOR JAMB MULLION)  $b = \frac{S5}{2}$

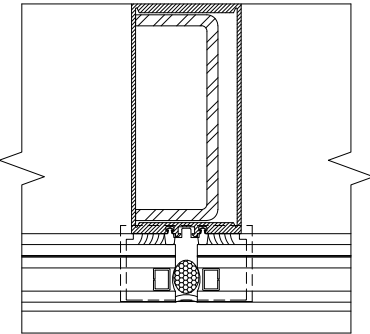
DEFINITION OF MULLION SECTIONS

- SECTION 1: SINGLE SPAN UNREINFORCED STANDARD HEAVY MULLION A OPTION 1 (SEE SECT. 8B / 3.15)
- SECTION 2: SINGLE SPAN REINFORCED STANDARD HEAVY MULLION A OPTION 2 (SEE SECT. 8A / 3.15)
- SECTION 3: SINGLE SPAN REINFORCED DOOR JAMB B (SEE DET. 12 / 3.15)
- SECTION 4: SINGLE SPAN REINFORCED CORNER MULLION C (SEE DET. 7F / 3.15)
- SECTION 5: SINGLE SPAN UNREINFORCED JAMB MULLION D OPTION 1 (SEE SECT. 7H / 3.15)
- SECTION 6: SINGLE SPAN REINFORCED JAMB MULLION D OPTION 2 (SEE SECT. 7J / 3.15)

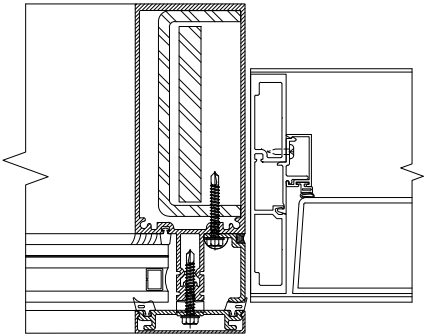
STD. HEAVY MULLION OPTION 1		
A	SECTION: 1 HEAVY MULLION 28	Ix = 8.0273 in.4 Sx = 3.0435 in.3
		IN TERMS OF ALUM.



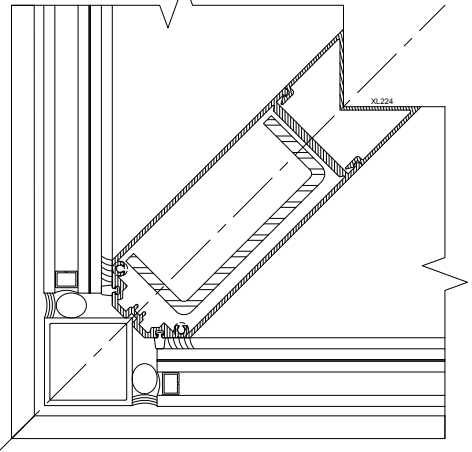
STD. HEAVY MULLION OPTION 2		
A	SECTION: 2 HEAVY MULLION 28 w/ STL CHANNEL 47	Ix = 25.5382 in.4 Sx = 9.8032 in.3
		IN TERMS OF ALUM.



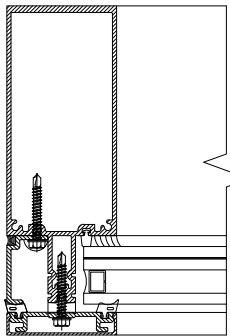
DOOR JAMB MULLION		
B	SECTION: 3 LIGHT MULLION 25 w/ STL CHANNEL 47 & 1/2" X 4" STL BAR 46	Ix = 51.806 in.4 Sx = 12.205 in.3
		IN TERMS OF ALUM.



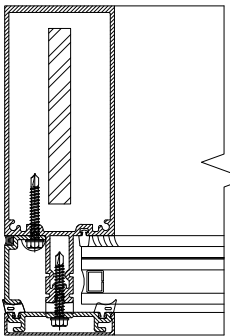
CORNER MULLION		
C	SECTION: 4 ACORNER MULLION 20 w/ STL. CHANNEL 47	Ix = 27.782 in.4 Sx = 8.6737 in.3
		IN TERMS OF ALUM.



JAMB MULLION OPTION 1		
D	SECTION: 5 JAMB MULLION 25	Ix = 10.803 in.4 Sx = 3.1168 in.3
		IN TERMS OF ALUM.



JAMB MULLION OPTION 2		
D	SECTION: 6 JAMB MULLION 25 w/ STL BAR 46	Ix = 19.677 in.4 Sx = 4.9752 in.3
		IN TERMS OF ALUM.



STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

Revisions By:

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Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD  
Date: 02/03/17  
Scale: AS NOTED  
File Name: StormWallXL.dwg  
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MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD,  
CORNER & JAMB MULLIONS FOR SINGLE SPAN

MAXIMUM MULLION SINGLE SPAN "L" (FT.) SCHEDULE FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (psf) AND A GIVEN MULLION EFFECTIVE SPACING "b"

MAX. A.S.D. DESIGN PRESSURE RATING  (psf)	EFFECTIVE SPACING  "b" (ft-in)	SINGLE SPAN MULLION W/ SPLICE				
		SECTION 1 STANDARD MULLION A OPTION 1	SECTION 2 STANDARD MULLION A OPTION 2	SECTION 4 CORNER MULLION C	SECTION 5 JAMB MULLION D OPTION 1	SECTION 6 JAMB MULLION D OPTION 2
		"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)	"L" (ft-in)
60.0	3' - 0"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	3' - 6"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	4' - 0"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	5' - 0"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
65.0	3' - 0"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	3' - 6"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	4' - 0"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	5' - 0"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
70.0	3' - 0"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	3' - 6"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	4' - 0"	8' - 5"	12' - 0"	12' - 0"	8' - 5"	12' - 0"
	5' - 0"	---	12' - 0"	12' - 0"	---	12' - 0"
75.0	3' - 0"	---	12' - 0"	12' - 0"	---	12' - 0"
	3' - 6"	---	12' - 0"	12' - 0"	---	12' - 0"
	4' - 0"	---	11' - 2"	11' - 2"	---	11' - 2"
	5' - 0"	---	---	---	---	---
80.0	3' - 0"	---	12' - 0"	12' - 0"	---	12' - 0"
	3' - 6"	---	12' - 0"	12' - 0"	---	12' - 0"
	4' - 0"	---	10' - 6"	10' - 6"	---	10' - 6"
	5' - 0"	---	---	---	---	---
85.0	3' - 0"	---	12' - 0"	12' - 0"	---	12' - 0"
	3' - 6"	---	11' - 4"	11' - 4"	---	11' - 4"
	4' - 0"	---	9' - 11"	9' - 11"	---	9' - 11"
90.0	3' - 0"	---	12' - 0"	12' - 0"	---	12' - 0"
	3' - 6"	---	10' - 8"	10' - 8"	---	10' - 8"
	4' - 0"	---	9' - 4"	9' - 4"	---	9' - 4"

## STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

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Discription:

U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD

Date: 02/03/17

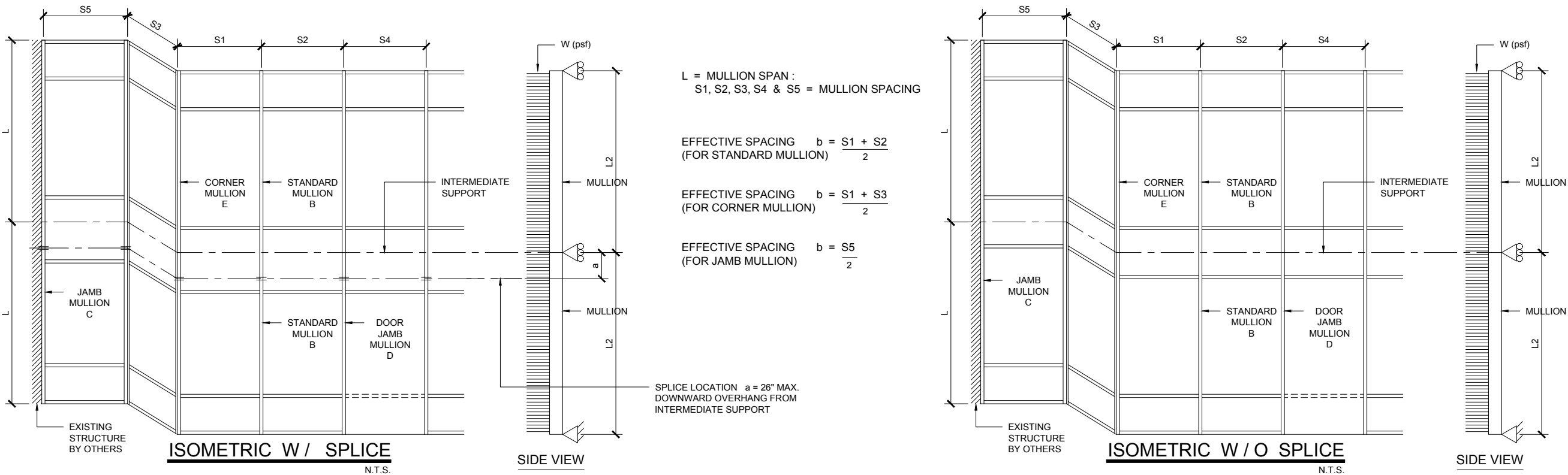
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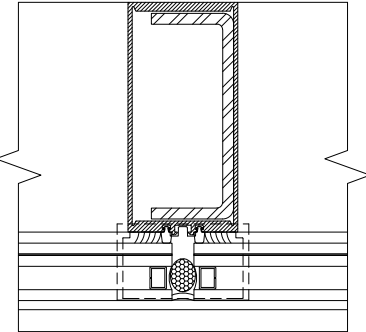


SSG TWIN SPAN MULLION WITH & W/O SPLICE

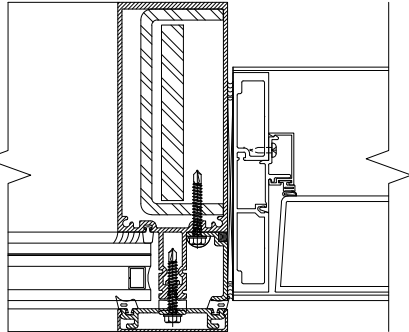


L1 = MULLION SPAN FIRST BAY  
L2 = MULLION SPAN SECOND BAY

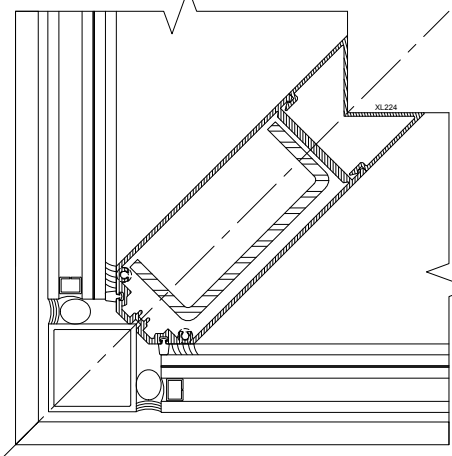
STANDARD HEAVY MULLION		
A	SECTION: 1 HEAVY MULLION (28) w/ STL CHANNEL (47)	lx = 25.5382 in.4 Sx = 9.7144 in.3
	IN TERMS OF ALUM.	



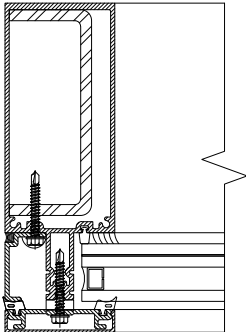
DOOR JAMB MULLION		
B	SECTION: 2 LIGHT MULLION (29) w/ STL CHANNEL (47) & 1/2" X 4" STL BAR (46)	lx = 51.806 in.4 Sx = 12.205 in.3
	IN TERMS OF ALUM.	



CORNER MULLION		
C	SECTION: 3 ACORNER MULLION (20) w/ STL CHANNEL (47)	lx = 27.782 in.4 Sx = 8.6737 in.3
	IN TERMS OF ALUM.	



JAMB MULLION OPTION 3		
D	SECTION: 4 JAMB MULLION (29) w/ STL CHANNEL (47)	lx = 29.217 in.4 Sx = 7.2769 in.3
	IN TERMS OF ALUM.	



DEFINITION OF MULLION SECTIONS	
SECTION 1:	TWIN SPAN REINFORCED STANDARD HEAVY MULLION A (SEE SECT. 8A / 3.15)
SECTION 2:	TWIN SPAN REINFORCED DOOR JAMB MULLION B (SEE SECT. 12 / 3.15)
SECTION 3:	TWIN SPAN REINFORCED CORNER MULLION C (SEE DET. 7F / 3.15)
SECTION 4:	TWIN SPAN LIGHT REINFORCED JAMB MULLION D OPTION 3 (SEE SECT. 7K / 3.15)

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Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD  
Date: 02/03/17  
Scale: AS NOTED  
File Name: StormWallXL.dwg  
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3.10

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD,  
CORNER & JAMB MULLIONS FOR SINGLE SPAN

MAXIMUM MULLION TWIN SPAN "L" (FT.) SCHEDULE FOR A GIVEN A.S.D. DESIGN  
PRESSURE RATING (psf) AND A GIVEN MULLION EFFECTIVE SPACING "b"

MAX. A.S.D. DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING  "b" (ft-in)	TWIN SPAN MULLION W/ SPLICE		
		SECTION 1 STANDARD MULLION A	SECTION 3 CORNER MULLION C	SECTION 4 JAMB MULLION D
60.0	3' - 0"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"
65.0	3' - 0"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"
70.0	3' - 0"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"
75.0	3' - 0"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"
80.0	3' - 0"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"
85.0	3' - 0"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"
90.0	3' - 0"	12' - 6"	12' - 6"	12' - 6"
	3' - 6"	12' - 6"	12' - 6"	12' - 6"
	4' - 0"	12' - 6"	12' - 6"	12' - 6"
	5' - 0"	12' - 6"	12' - 6"	12' - 6"

Revisions By:

U.S. ALUMINUM

STORM WALL XL

HURRICANE RESISTANT

CURTAIN WALL SYSTEM

Discription:

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Date: 02/03/17

Scale: AS NOTED

File Name: StormWallXL.dwg

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3.11

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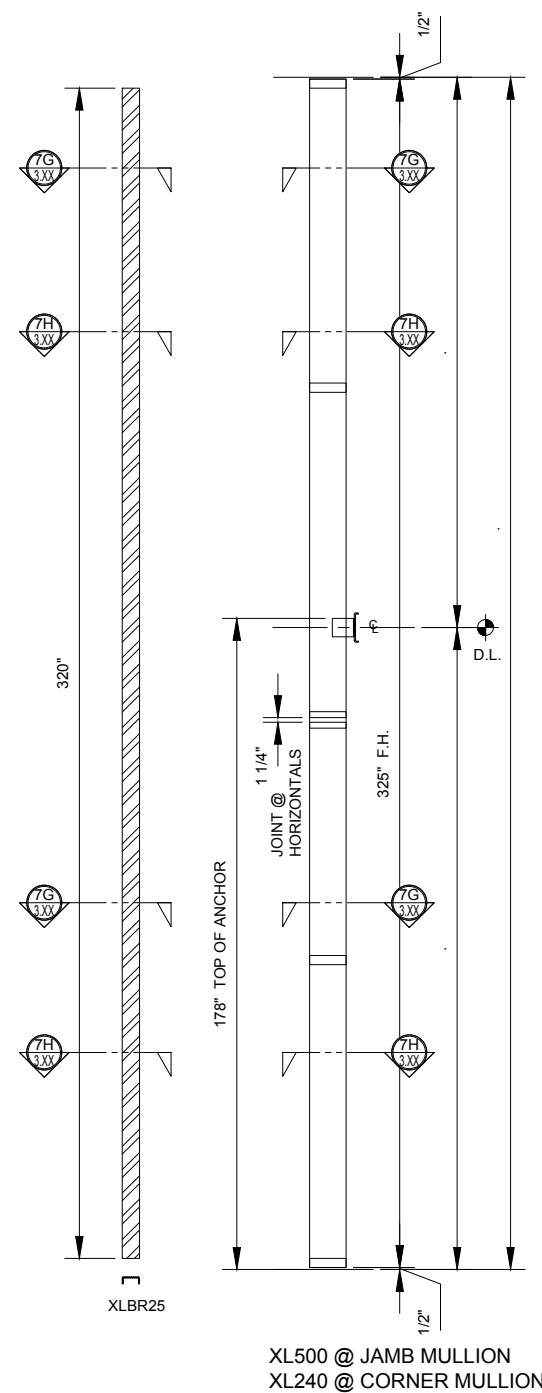
ALUMINUM

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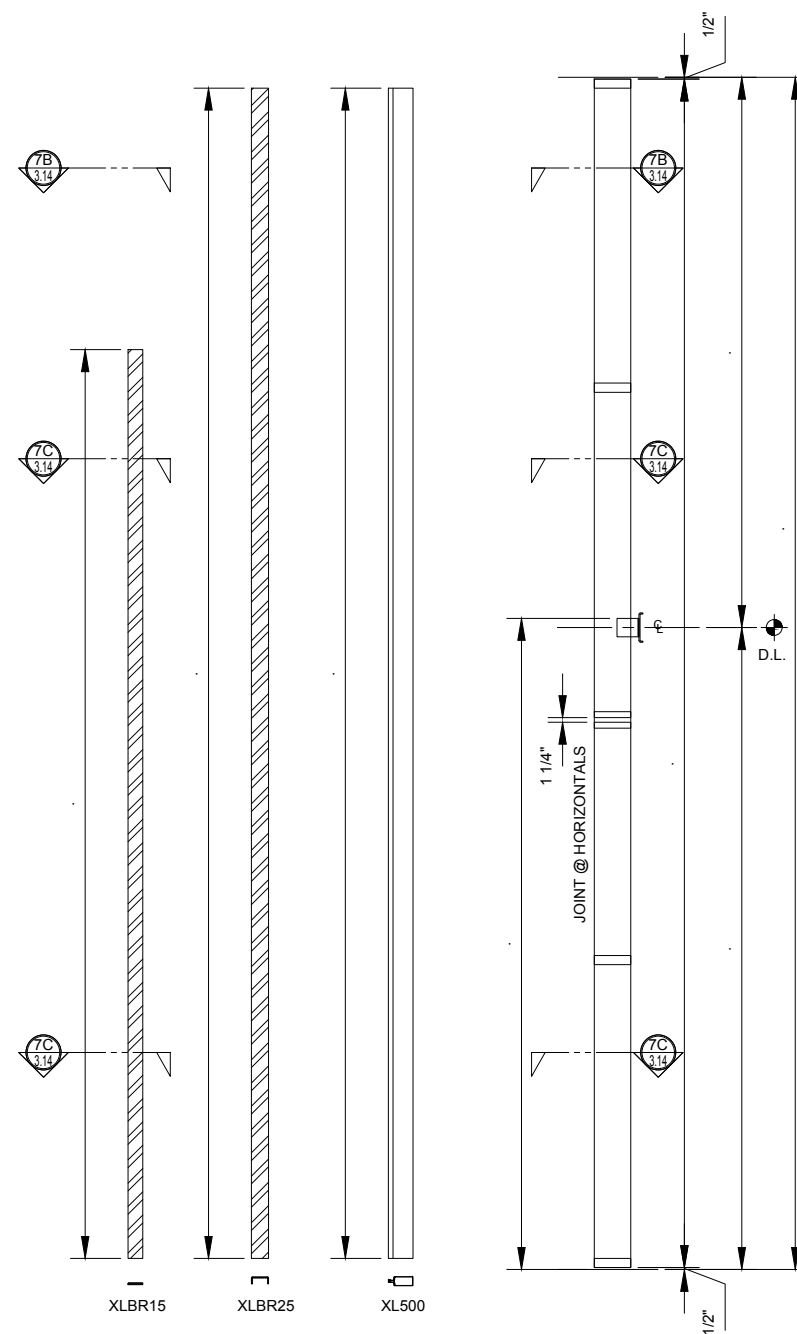
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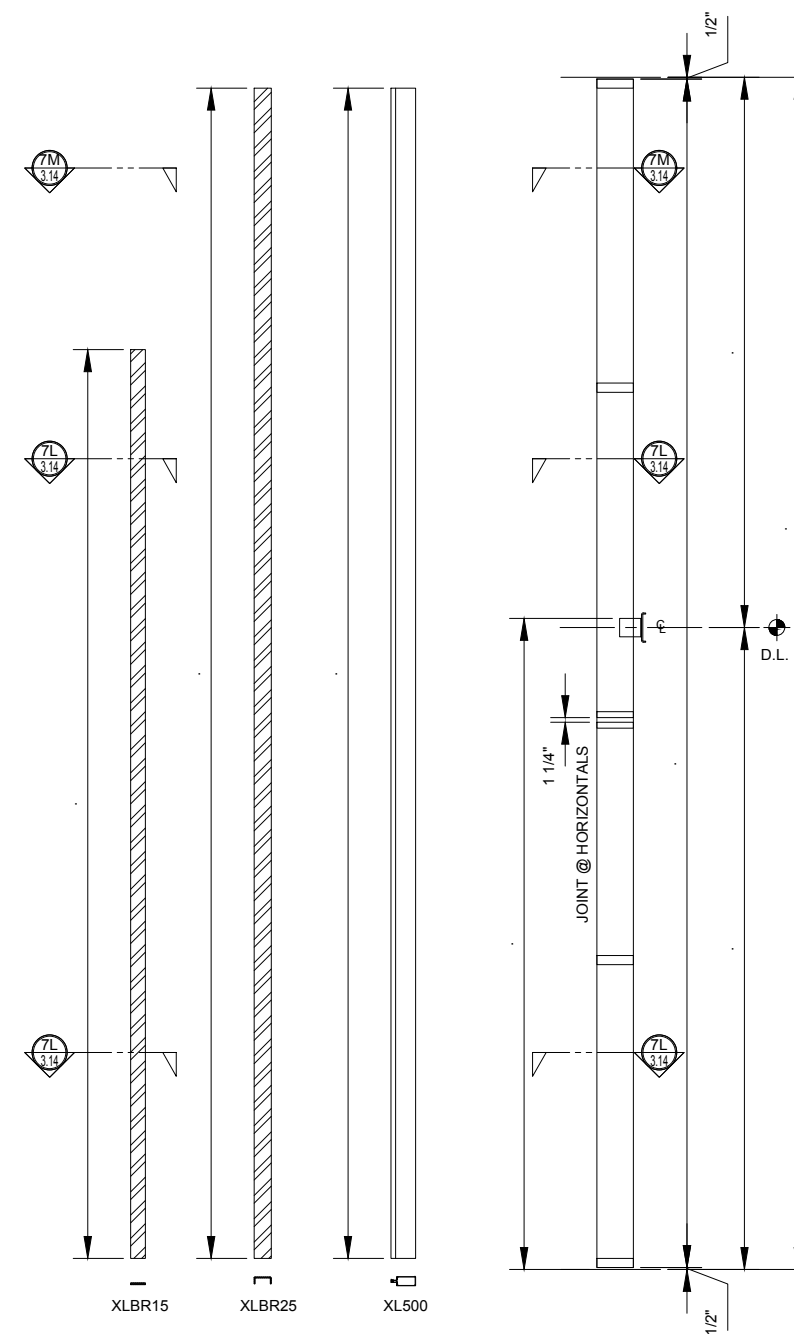
OPTIONS FOR JAMB, CORNER AND STANDARD MULLIONS INSTALLATION FOR TWIN SPAN CURTAIN WALL SYSTEM w/ CONTINUOUS (NON-SPLICED) MULLIONS



SIDEVIEW FOR JAMB MULLION "C" &  
CORNER MULLION "E" (SEE SHEET 3.06)



SIDEVIEW FOR OPTION # 1 FOR  
STANDARD MULLION "B" (SEE SHEET 3.06)



SIDEVIEW FOR OPTION # 2 FOR  
STANDARD MULLION "B" (SEE SHEET 3.06)

Revisions By:

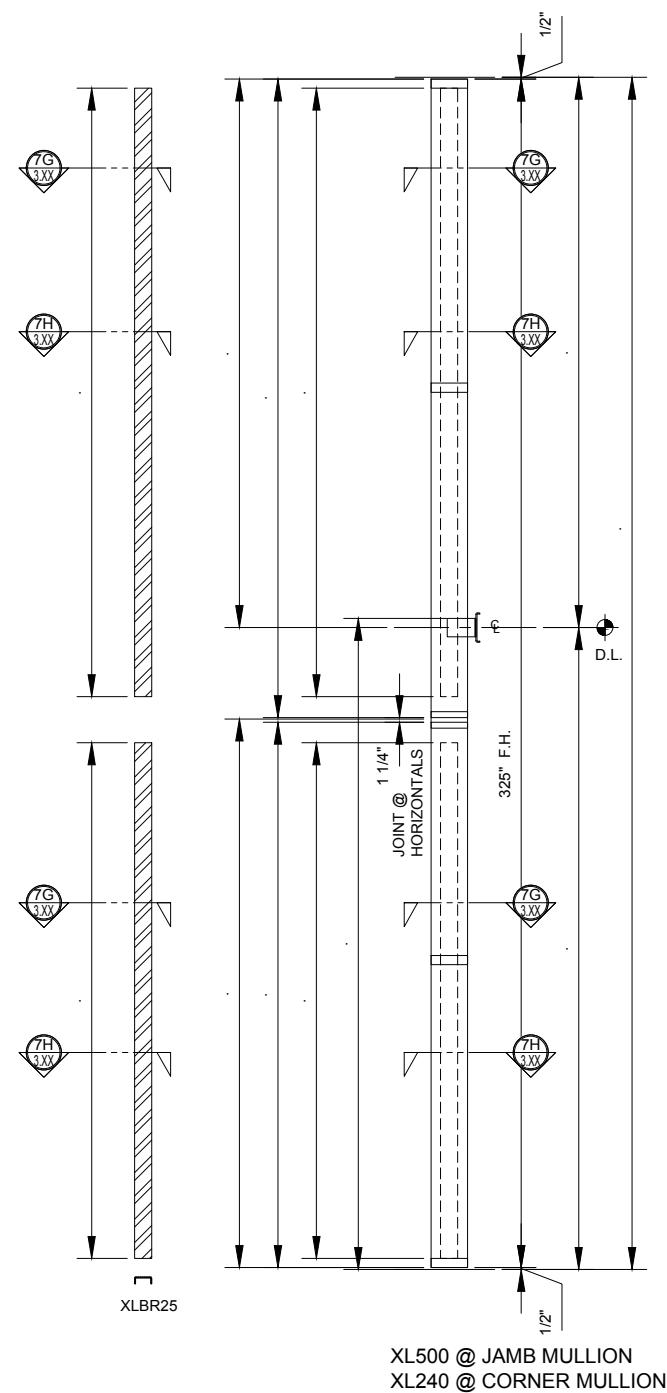


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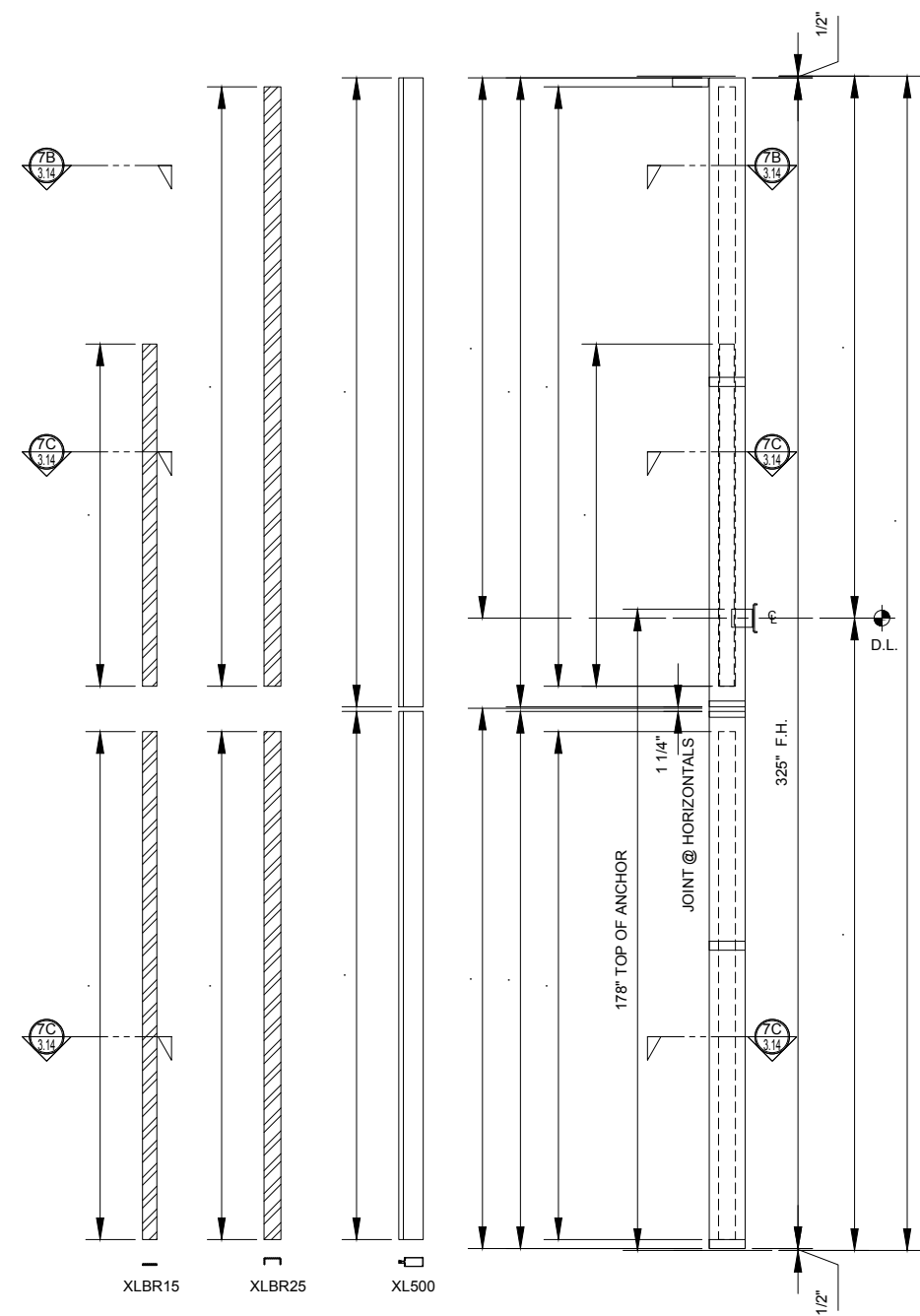
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

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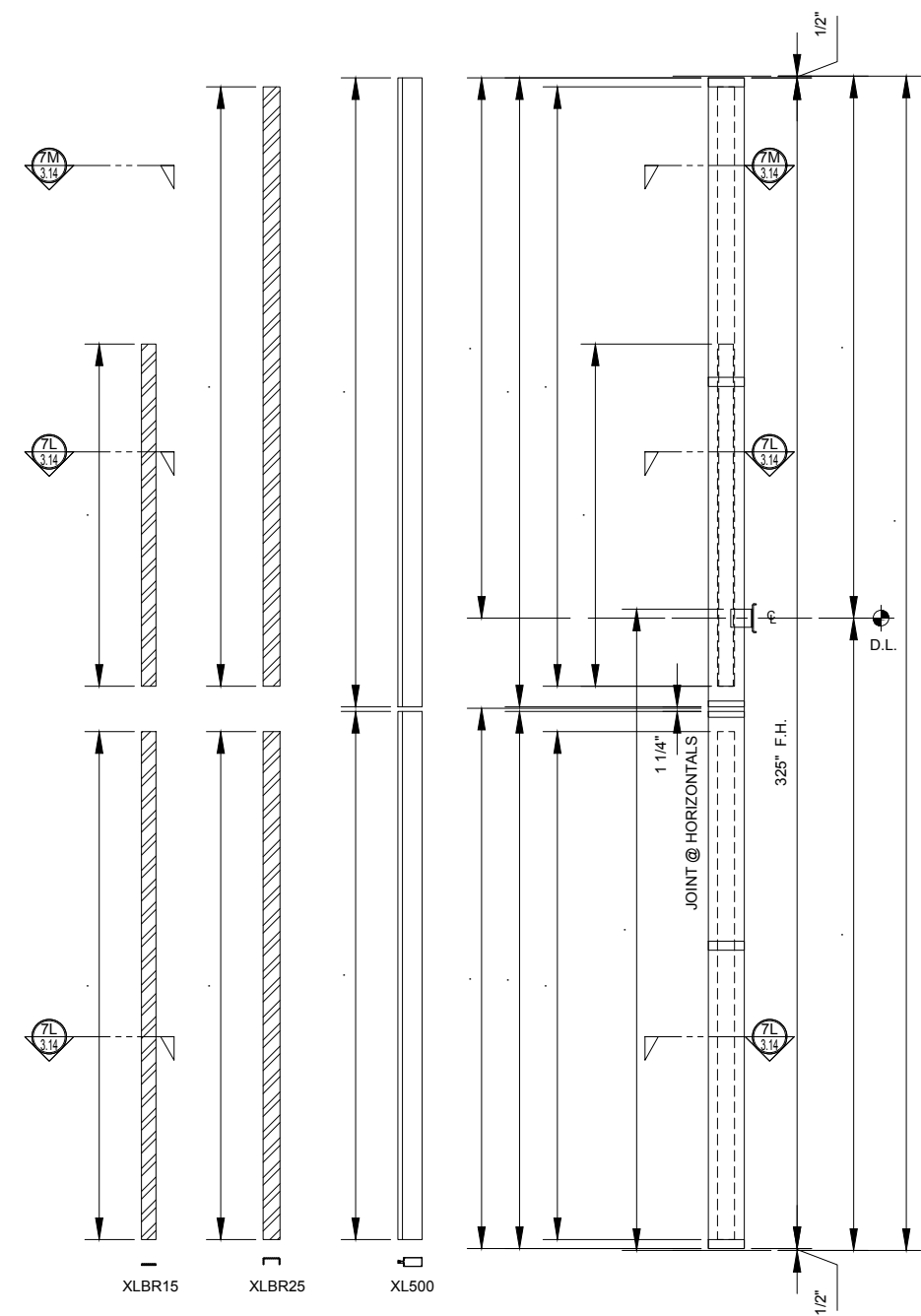
OPTIONS FOR JAMB, CORNER AND STANDARD MULLIONS INSTALLATION  
FOR TWIN SPAN CURTAIN WALL SYSTEM w/ SPLICED MULLIONS



SIDEVIEW FOR JAMB MULLION "C" &  
CORNER MULLION "E" (SEE SHEET 3.06)



SIDEVIEW FOR OPTION # 1 FOR  
STANDARD MULLION "B" (SEE SHEET 3.06)



SIDEVIEW FOR OPTION # 2 FOR  
STANDARD MULLION "B" (SEE SHEET 3.06)

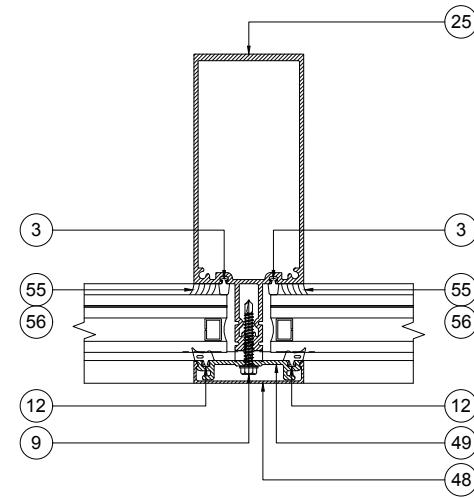
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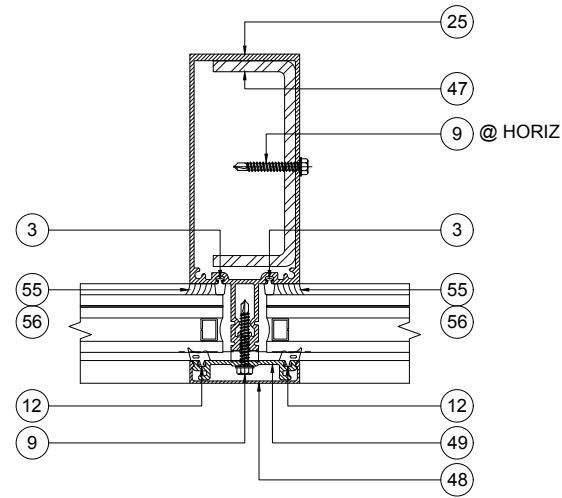
Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
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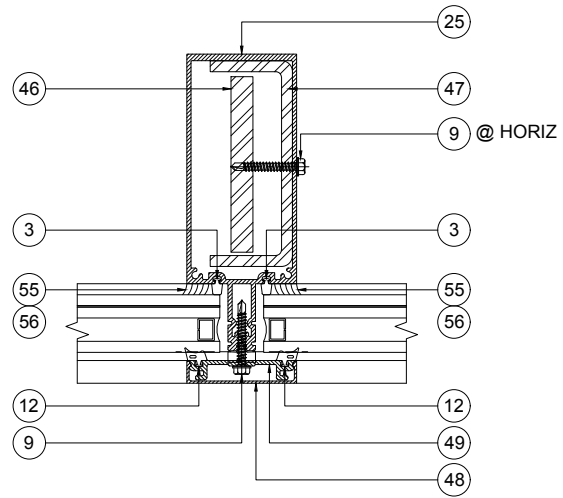
HORIZONTAL SECTION AT STANDARD MULLIONS (PLAN)



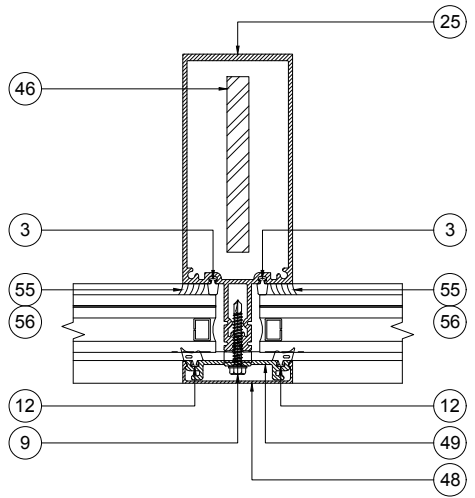
STD MULLION 7A  
MULLION A, OPTION 1 (1/3.04)



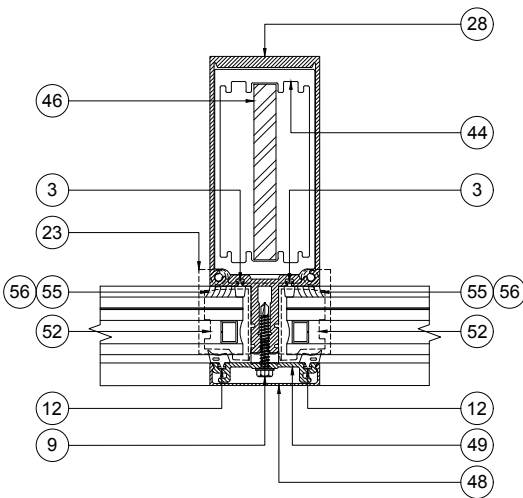
STD MULLION 7B  
MULLION A, OPTION 2 (2/3.04)



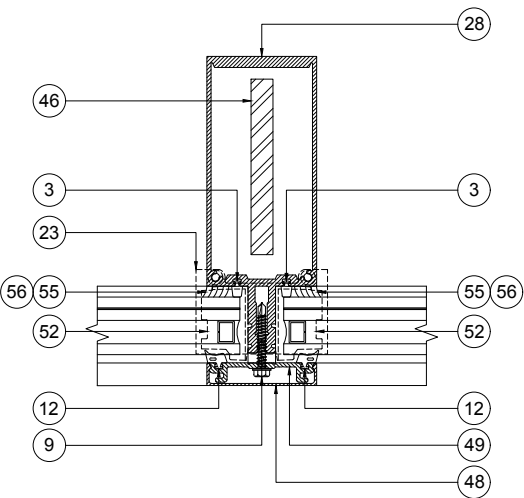
STD MULLION 7C  
MULLION A, OPTION 2A (2A/3.04)  
MULLION B, OPTION 1 (1/3.06)



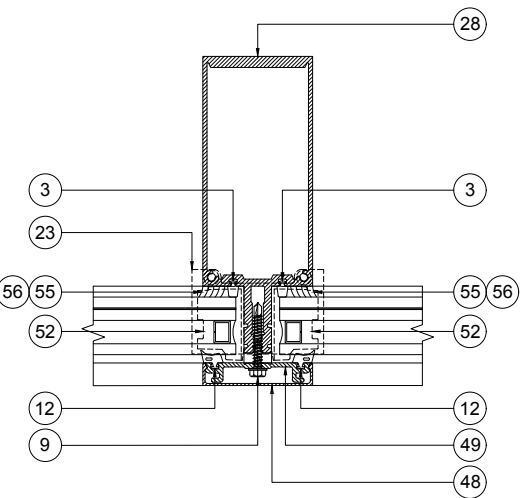
STD MULLION 7D  
MULLION A, OPTION 4 (4/3.04)



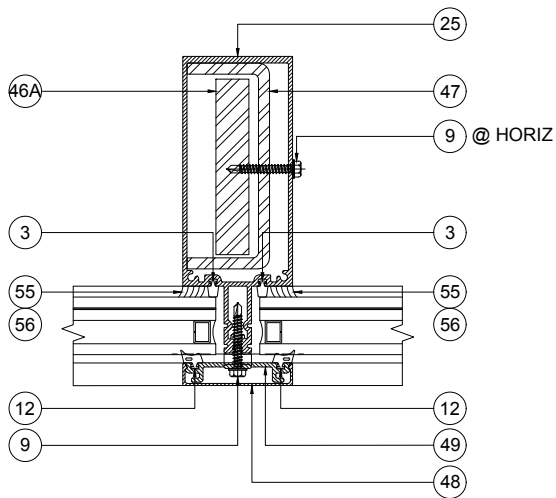
STD HEAVY MULLION 7L  
MULLION B, OPTION 2 (3/3.06)



STD HEAVY MULLION 7M  
MULLION B, OPTION 2 (4/3.06)



STD HEAVY MULLION 7N  
MULLION A, OPTION 3 (3/3.04)



STD MULLION 7O  
MULLION A, OPTION 4A (4A/3.04)

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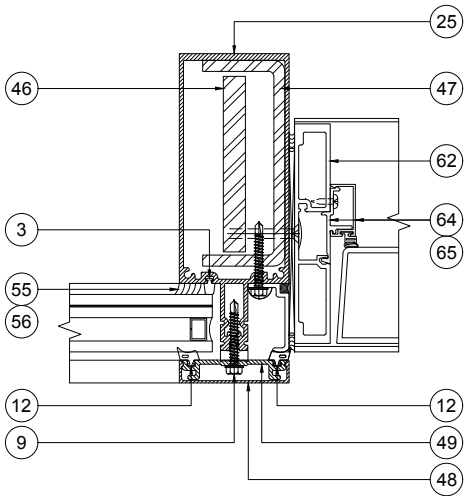
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STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

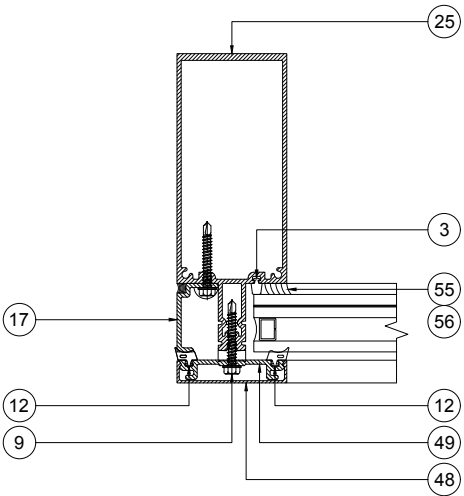
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Date: 02/03/17  
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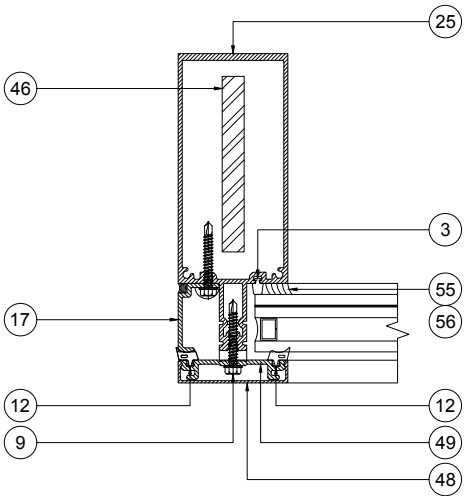
HORIZONTAL SECTION AT STANDARD MULLIONS (PLAN)



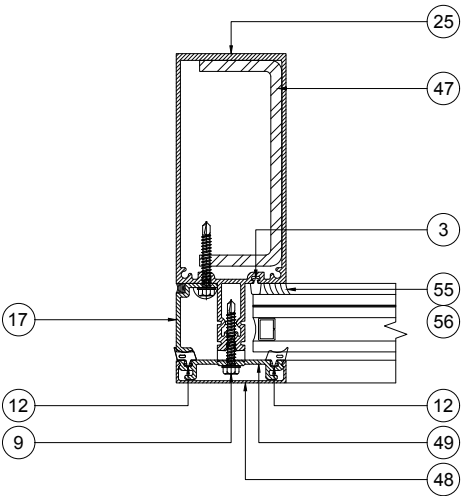
**DOOR JAMB MULLION (12)**  
MULLION B (5/3.04, 3/3.08, 2/3.10)  
MULLION D (6/3.06)



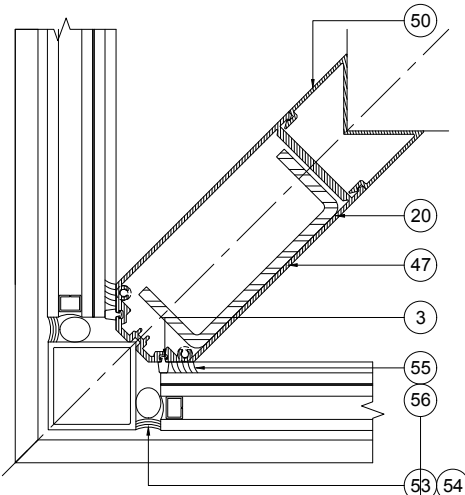
**JAMB MULLION (7H)**  
MULLION D, OPTION 2 (8/3.04)  
MULLION D, OPTION 1 (6/3.08)



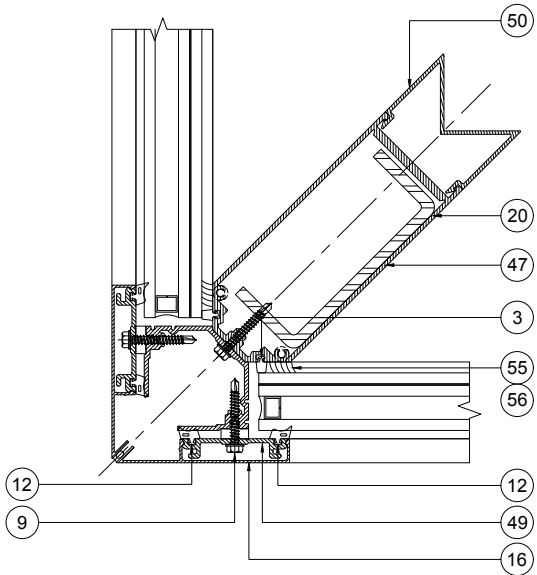
**JAMB MULLION (7J)**  
MULLION D, OPTION 3 (9/3.04)  
MULLION D, OPTION 2 (6/3.08)



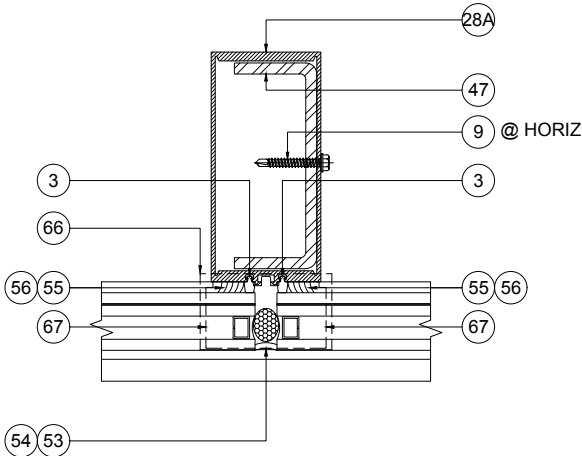
**JAMB MULLION (7K)**  
MULLION D, OPTION 1 (7/3.04, 4/3.10)  
MULLION C (5/3.06)



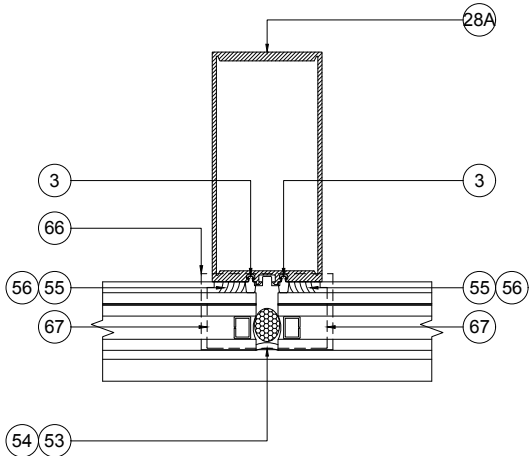
**CORNER MULLION (7F)**  
MULLION C (4/3.08, 3/3.10)



**CORNER MULLION (7G)**  
MULLION C (6/3.04)  
MULLION E (7/3.06)

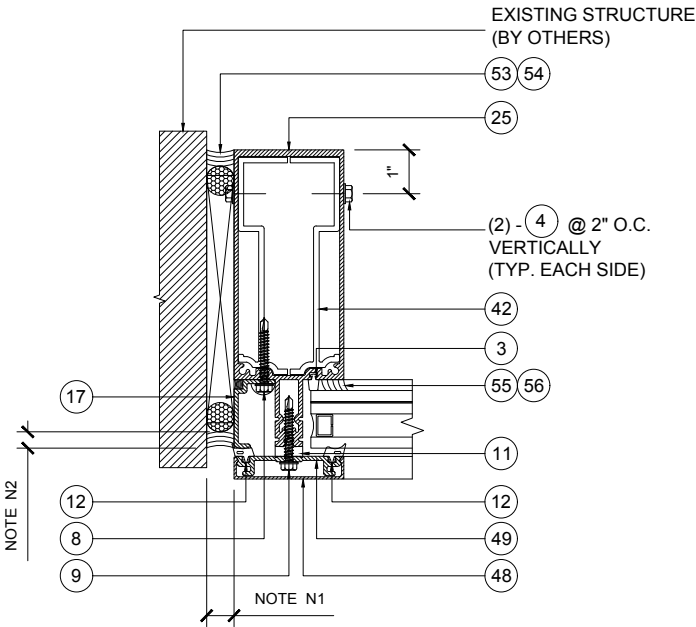


**STD HEAVY MULLION (8A)**  
MULLION A, OPTION 2 (2/3.08)  
MULLION A (1/3.10)

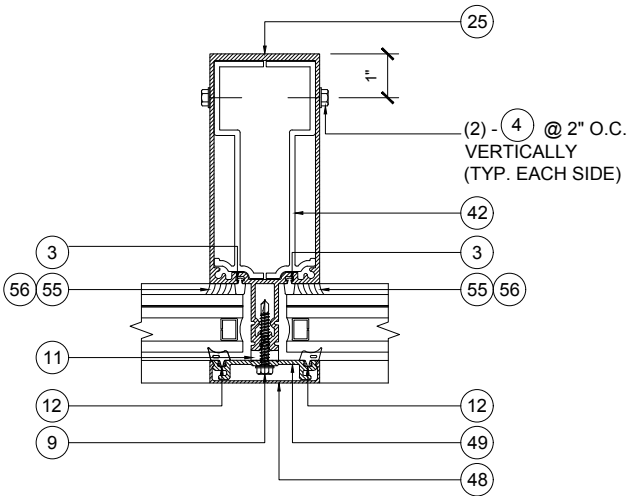


**STD HEAVY MULLION (8B)**  
MULLION A, OPTION 1 (1/3.08)

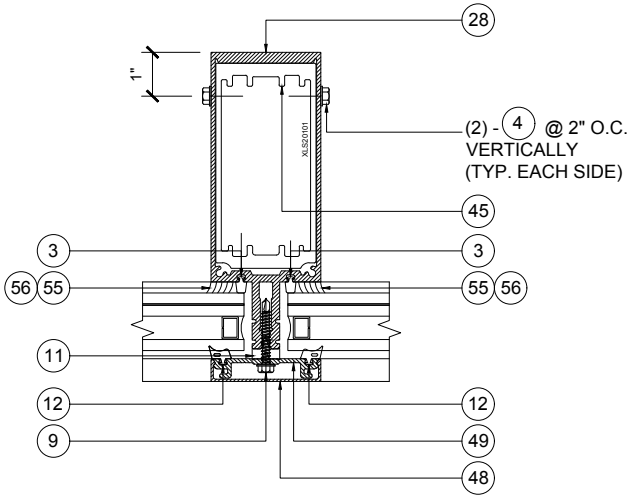
HORIZONTAL SECTION AT STANDARD MULLIONS (PLAN)



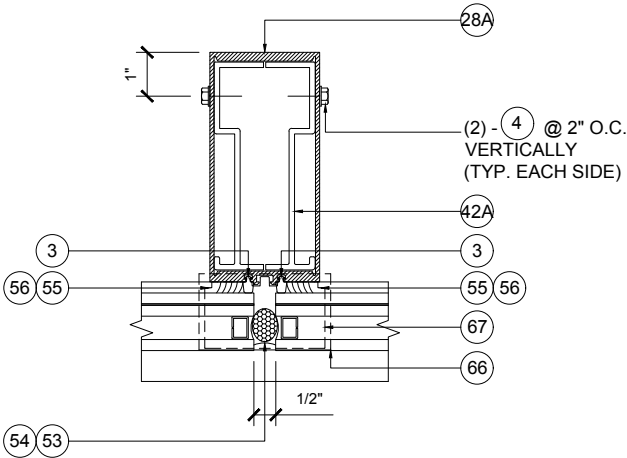
JAMB MULLION SPLICE 9A



STD MULLION SPLICE 9B



STD HEAVY MULLION HARD SPLICE 9C



STD HEAVY MULLION SPLICE 9D

SEALANT JOINT NOTES:  
N1 - 5/8" MIN. & 1-5/16" MAX  
WIDE JOINT w/ SEALANT 53 54  
N2 - 1/4" MIN. & 3/8" MAX.  
DEPTH JOINT w/ SEALANT 53 54

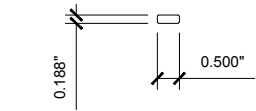
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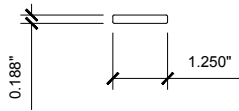
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD  
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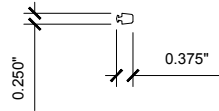
STORMWALL XL CURTAIN WALL SYSTEM COMPONENTS



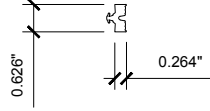
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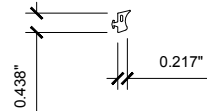
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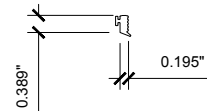
3 XLG5185  
GASKET



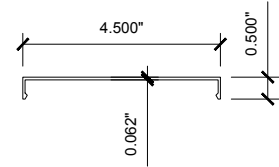
11 XLG107  
ISOLATOR



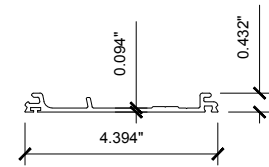
12 XLG117  
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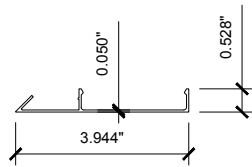
13 XLG160  
GASKET



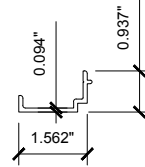
14 XL100  
FACE CAP



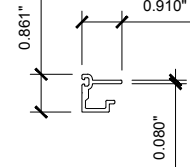
15 XLD102  
PRESSURE PLATE



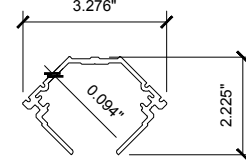
16 XL115  
PRESSURE PLATE



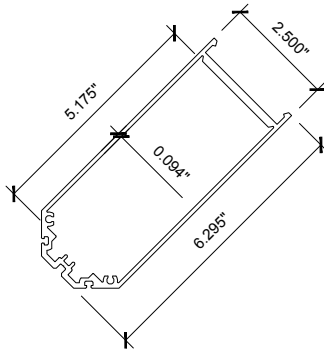
17 XL122  
FILLER



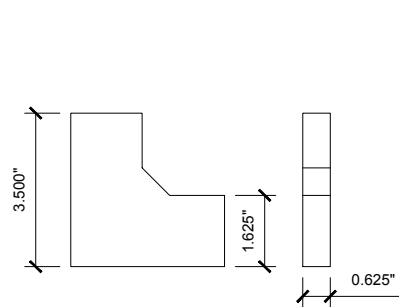
18 XL130  
GLAZING ADAPTOR



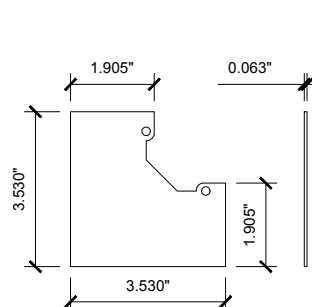
19 XL132 CORNER  
PRESSURE PLATE



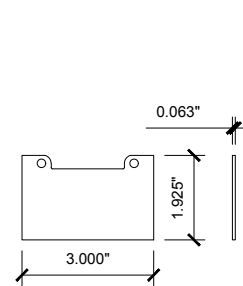
20 XL240  
CORNER MULLION



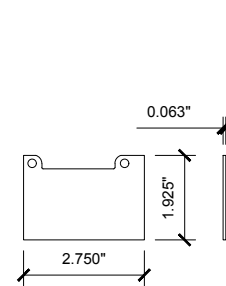
21 XLC312  
CORNER BRIDGE



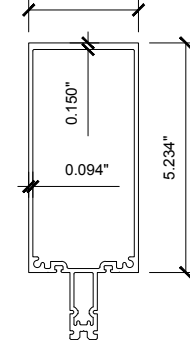
22 XLC323 CORNER  
MULLION CAP



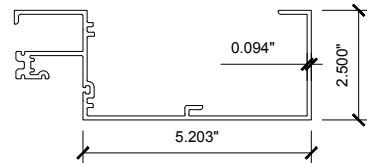
23 XLC325  
MULL CAP



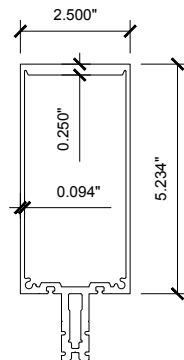
24 XLC338  
JAMB CAP



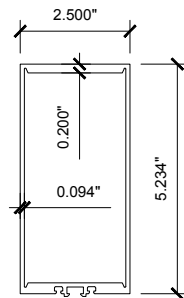
25 XL500  
MULLION



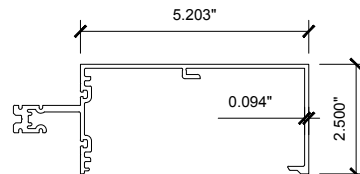
26 XL501  
HEAD



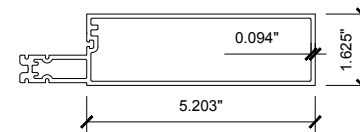
28 XL510  
HEAVY MULLION



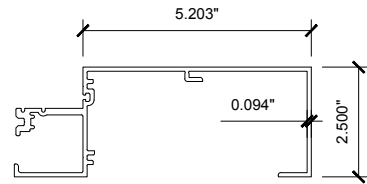
28A XL504  
HEAVY MULLION



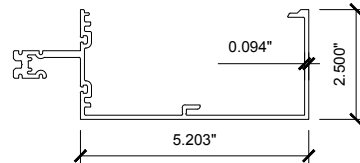
29 XL532 ROLL  
OVER HORIZONTAL



31 XL536  
HORIZONTAL



27 XL502  
SILL



30 XL533 ROLL  
OVER HORIZONTAL

STORMWALL XL - IMPACT RESISTANT CURTAIN WALL SYSTEM

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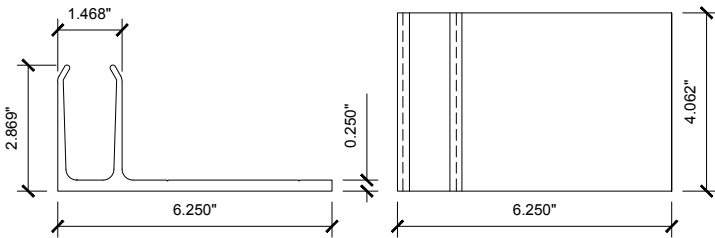
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Description:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

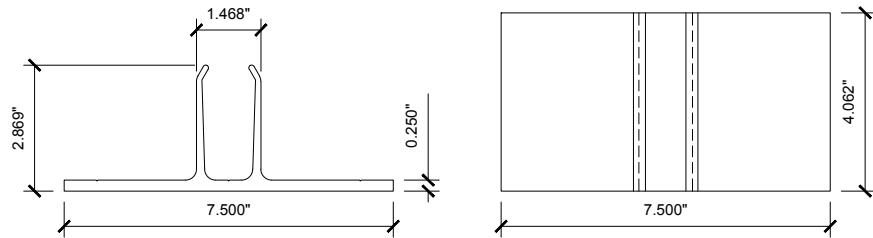
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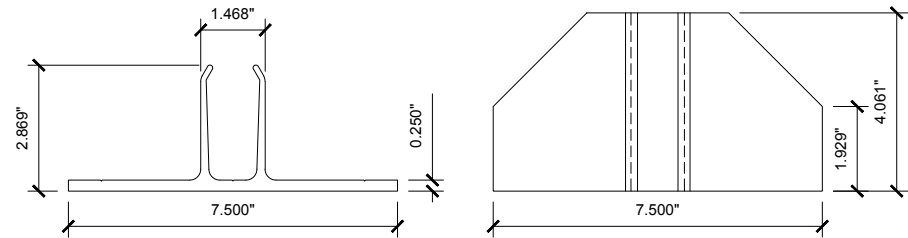
STORMWALL XL CURTAIN WALL SYSTEM COMPONENTS (CONTINUED)



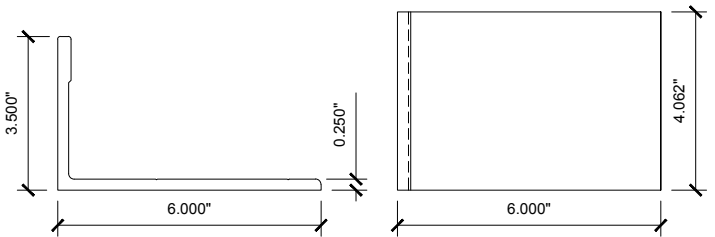
32 XLA10301 "F" ANCHOR  
(JAMB MULLION)



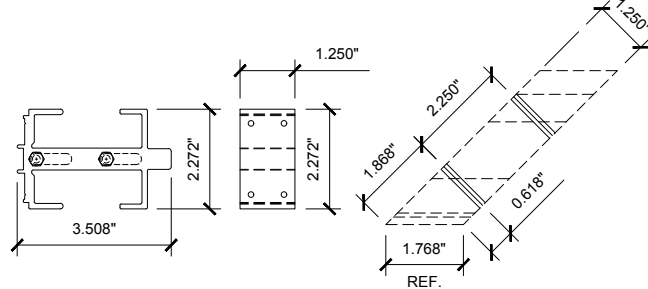
33 XLA10501 "T" ANCHOR  
(STD MULLION & TOP OF DOOR JAMB MULLION)



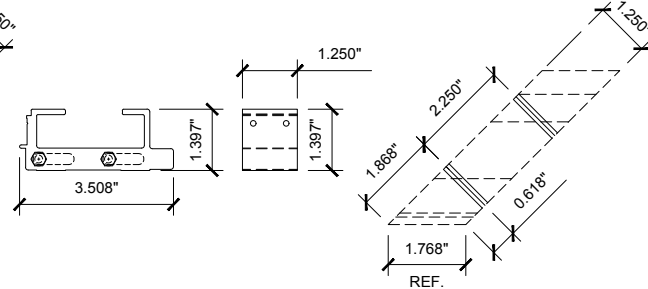
34 XLA10503 "T" ANCHOR  
(CORNER MULLION)



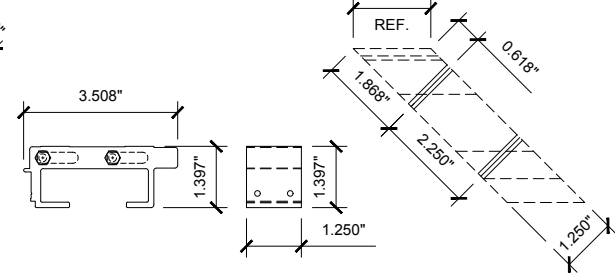
35 XLA17401 "L" ANCHOR  
(JAMB & STD MULLION)



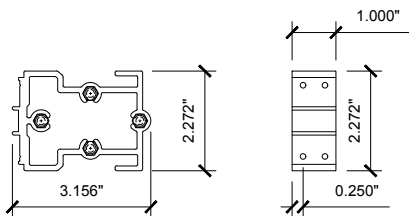
36 XLB18001  
CORNER SHEAR BLOCK



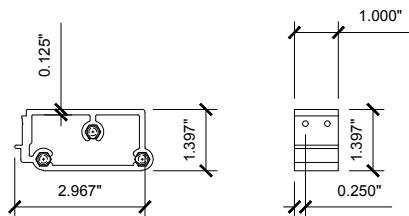
37 XLB18002  
CORNER SHEAR BLOCK



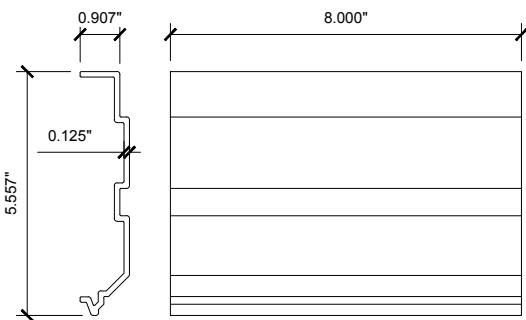
38 XLB18003  
CORNER SHEAR BLOCK



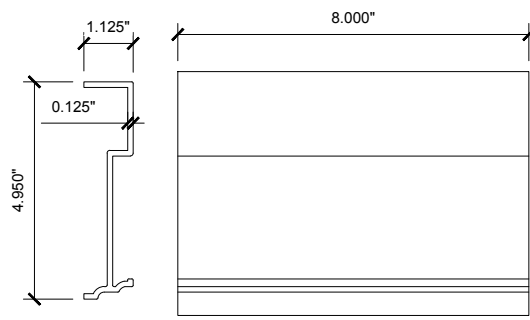
39 XLB18301  
SHEAR BLOCK



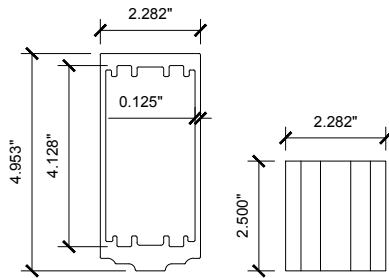
40 XLB18401  
SHEAR BLOCK



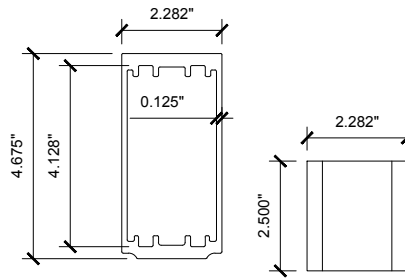
41 XLS19101  
CORNER SPLICE



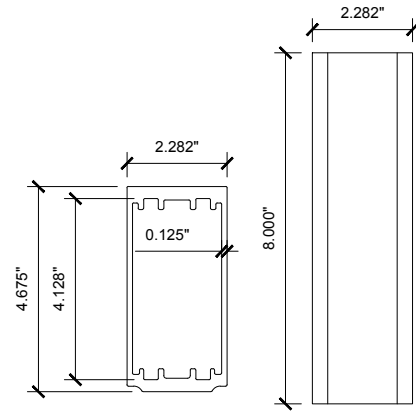
42 XLS19401  
MULLION SPLICE



43 XLS20001 STD  
ANCHOR SLEEVE

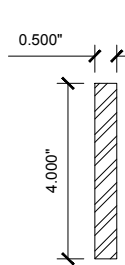


44 XLS20101 HEAVY  
ANCHOR SLEEVE

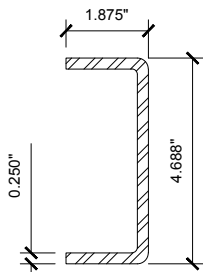


45 XLS20102 HEAVY  
MULLION HARD SPLICE

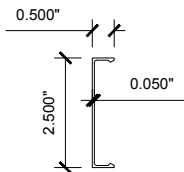
STORMWALL XL CURTAIN WALL SYSTEM - DELTA DOOR FRAME COMPONENTS



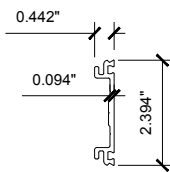
XLBR15 @46  
XLBR17 @48A STEEL  
REINFORCEMENT



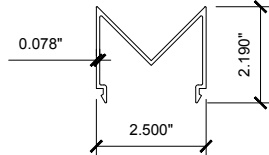
XLBR25 STEEL  
REINFORCEMENT



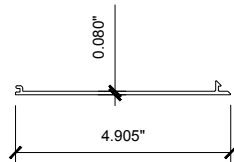
XL110  
FACE CAP



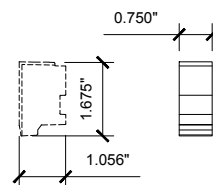
XL162  
PRESSURE PLATE



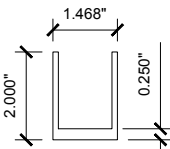
XL224  
COVER



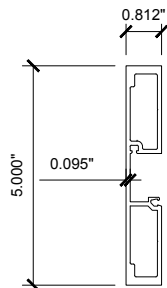
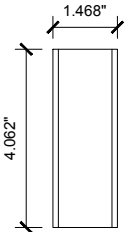
XL237  
FILLER



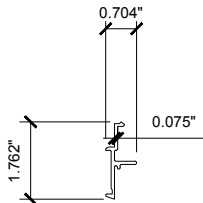
XLD352  
ZONE PLUG



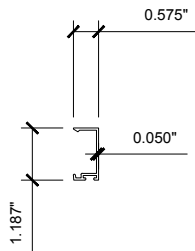
XLA10801  
"U" ANCHOR



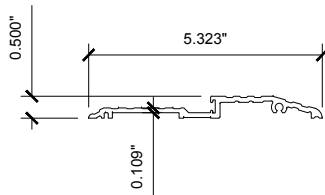
IG510  
DOOR JAMB /  
HEADER



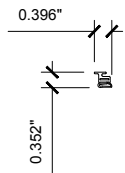
IG047  
DOOR STOP



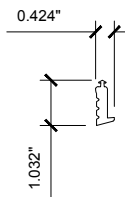
IG046  
DOOR STOP



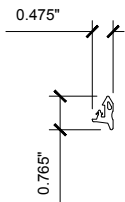
TH811  
THRESHOLD



NP801  
WEATHERSTRIP



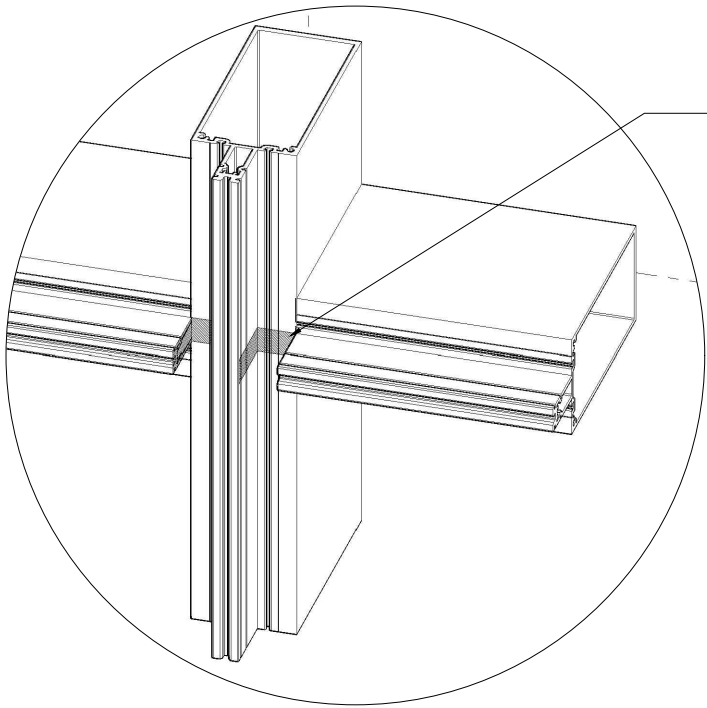
NP811  
GASKET



NP825  
GASKET

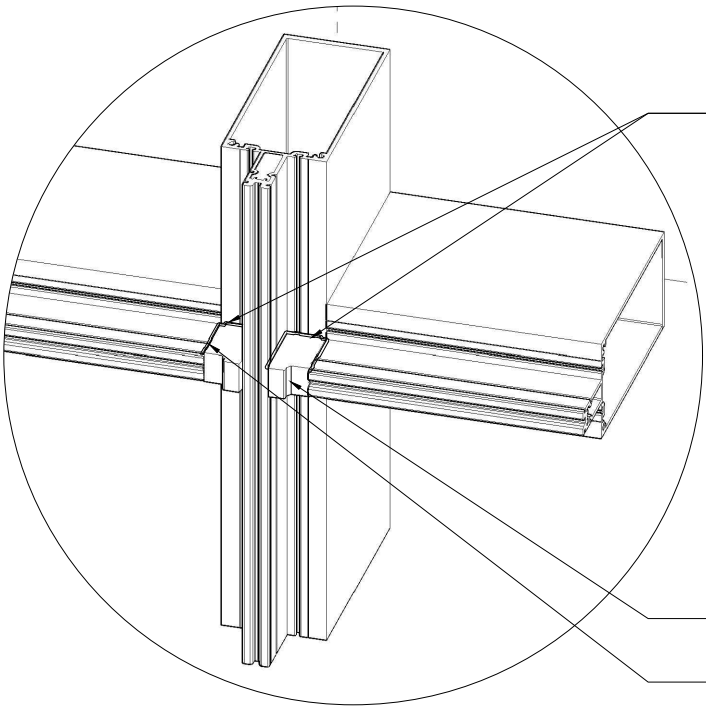
ZONE PLUG INSTALLATION

CURTAIN WALLS



STEP 1

SEAL ALONG TONGUE OF  
HORIZONTAL & ACROSS FACE  
AND TONGUE OF MULLION  
BEFORE INSTALLING XLD352  
ZONE PLUGS

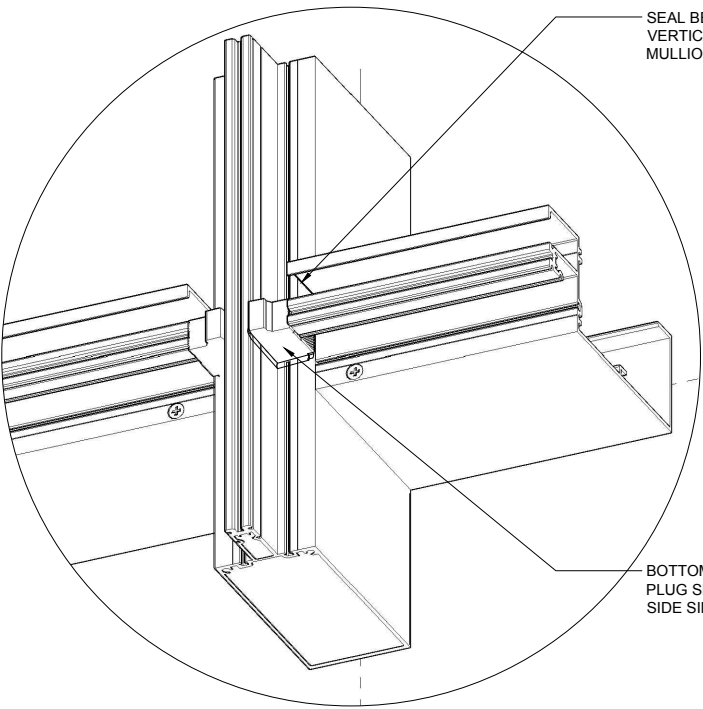


STEP 2

FORCE SEALANT INTO  
GASKET RACE

XLD352 ZONE PLUG

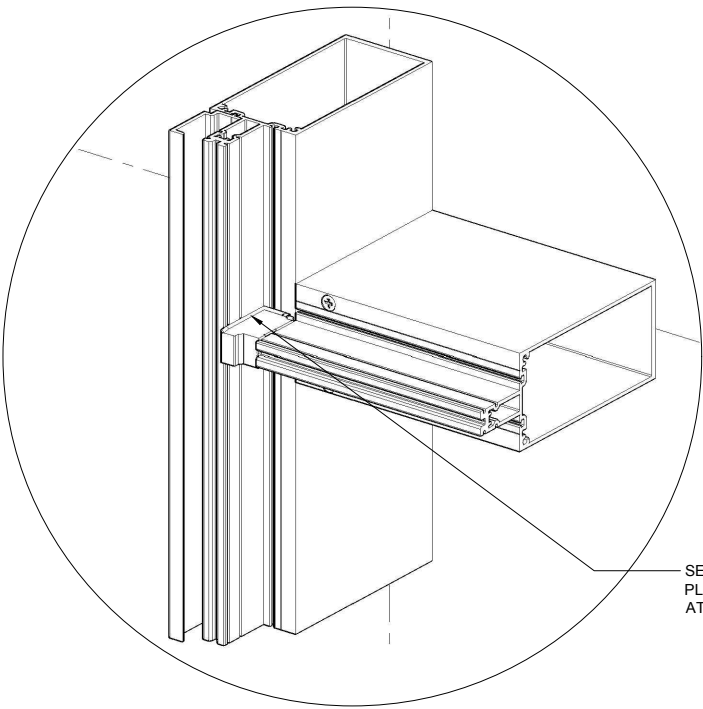
TOOL SEALANT ALONG  
TOP OF ZONE PLUG TO  
FORM A WATER TIGHT  
SEAL



SEAL BETWEEN HEAD,  
VERTICAL MULLION &  
MULLION CAP

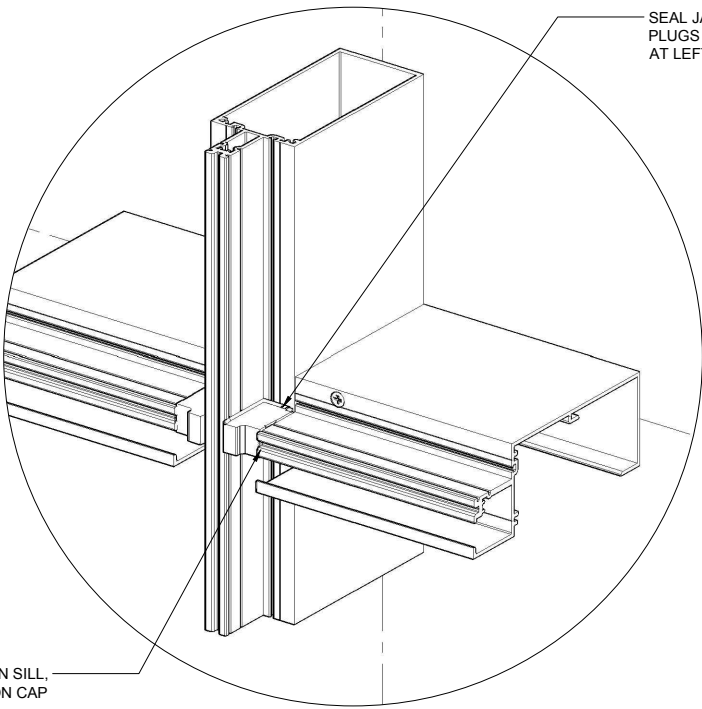
BOTTOM SIDE OF ZONE  
PLUG SHOWN. SEAL TOP  
SIDE SIMILAR

ZONE PLUG AT HEAD



SEAL JAMB & SILL ZONE  
PLUGS - SAME AS SHOWN  
AT LEFT

ZONE PLUG AT JAMB



SEAL JAMB & SILL ZONE  
PLUGS SAME AS SHOWN  
AT LEFT

SEAL BETWEEN SILL,  
VERTICAL & MULLION CAP

ZONE PLUG AT SILL

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Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

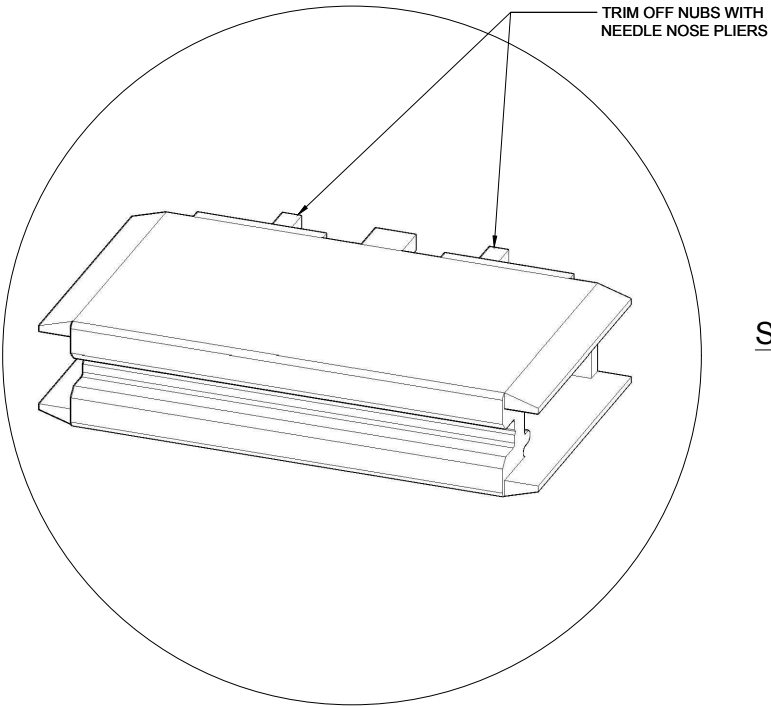
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BRIDGE AND ZONE PLUG INSTALLATION

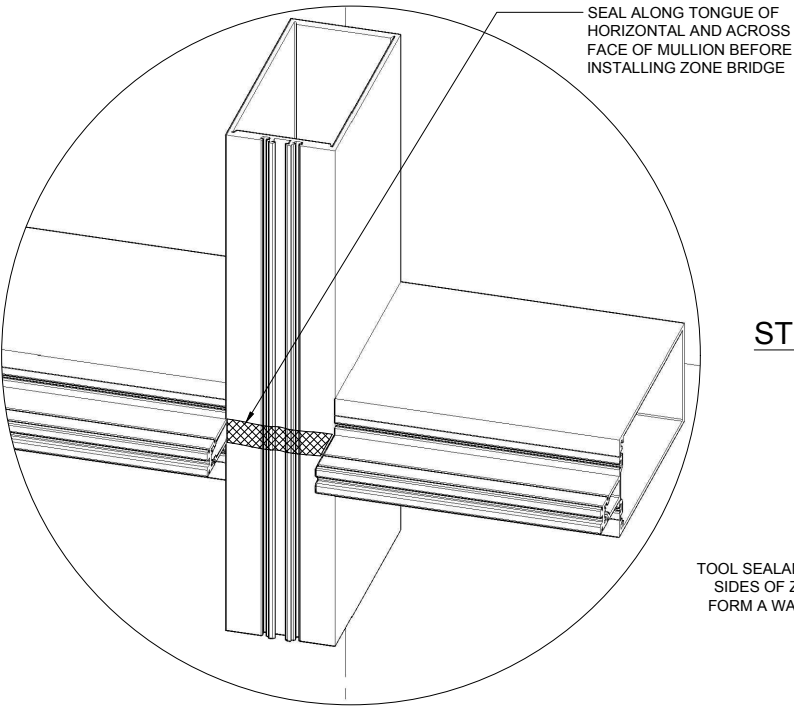
CURTAIN WALLS

STEP 1

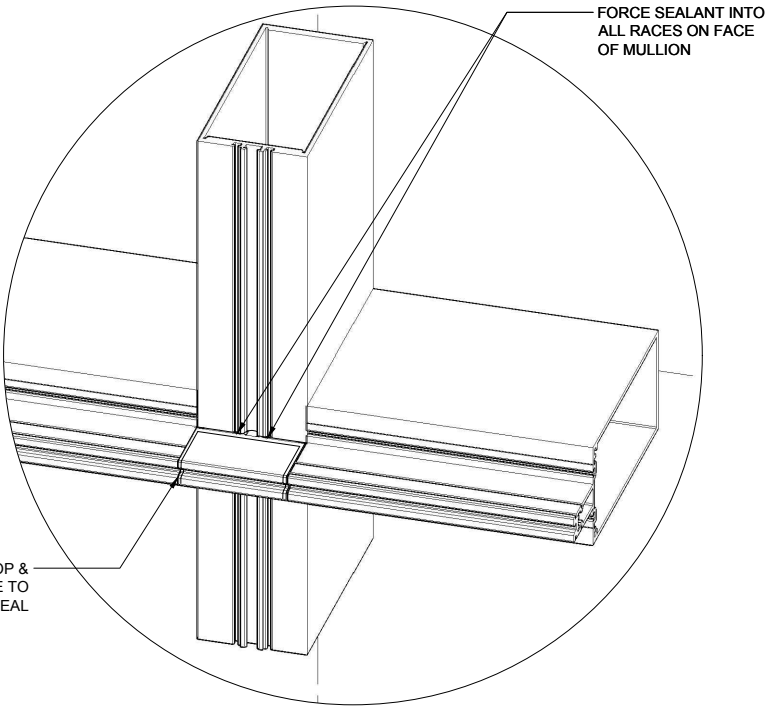


XLD350 ZONE BRIDGE

STEP 2

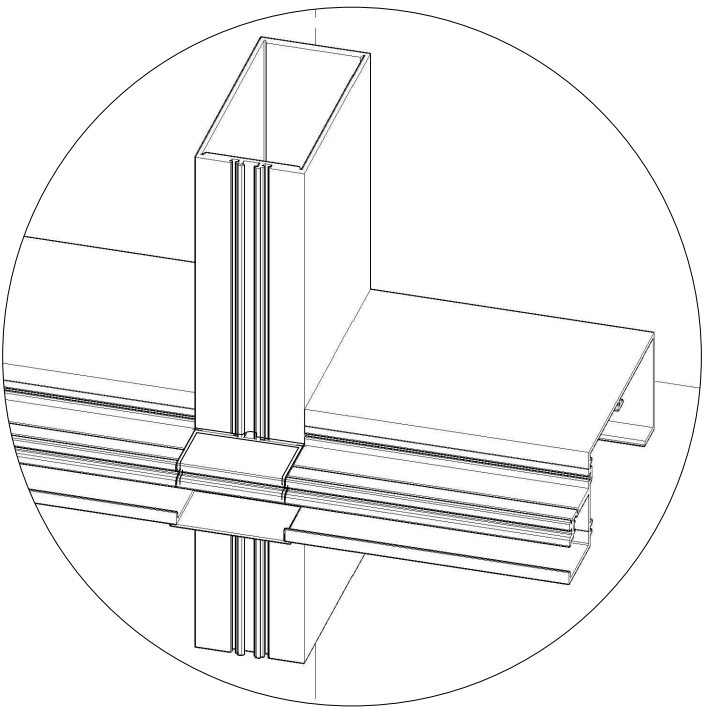


STEP 3



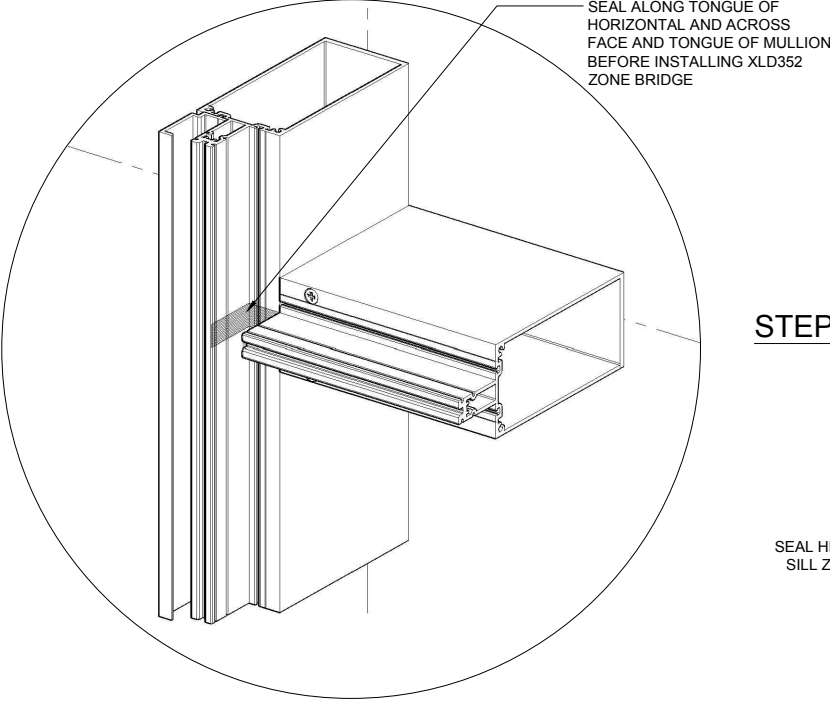
TOOL SEALANT ALONG TOP & SIDES OF ZONE BRIDGE TO FORM A WATER TIGHT SEAL

STEP 4



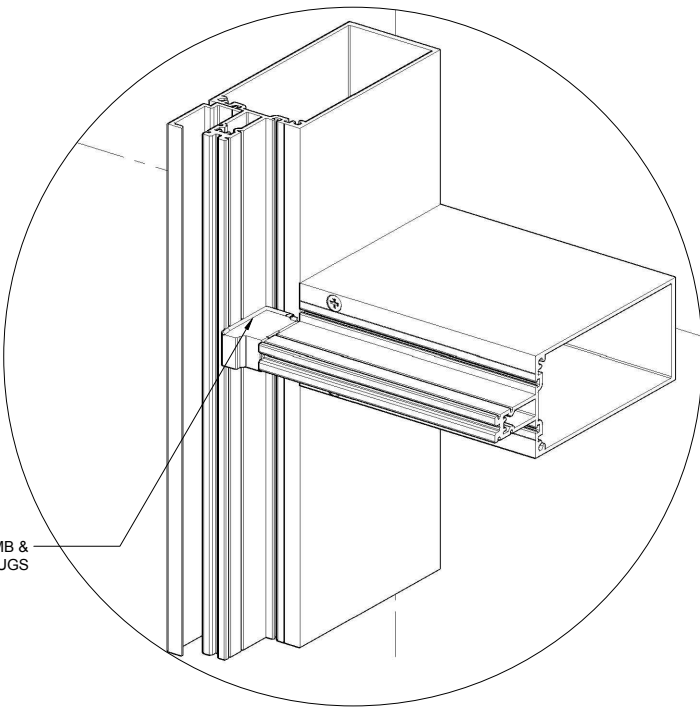
XLD350 ZONE BRIDGE  
AT SILL (HEAD SIMILAR)

STEP 1



XLD352 ZONE PLUG  
AT JAMB

STEP 2



XLD352 ZONE PLUG  
AT JAMB

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Discription:  
U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

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PRESSURE PLATE AND FACE CAP INSTALLATION

CURTAIN WALLS

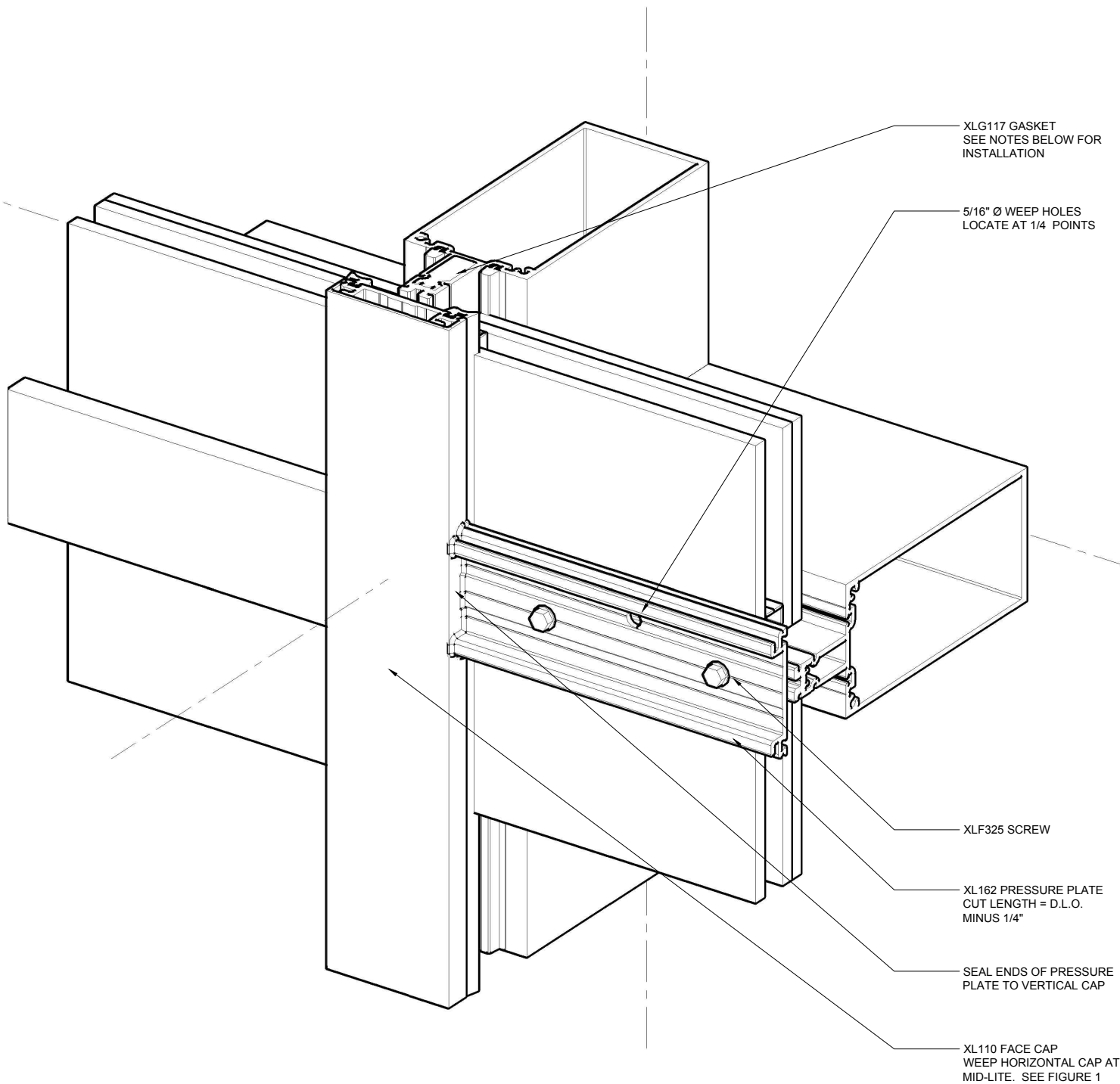
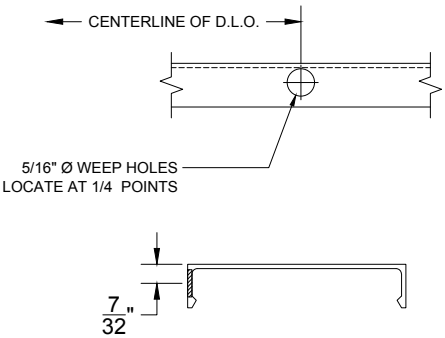


FIGURE 1  
GLAZING  
INSTRUCTIONS  
HORIZONTAL FACE  
CAP FABRICATION



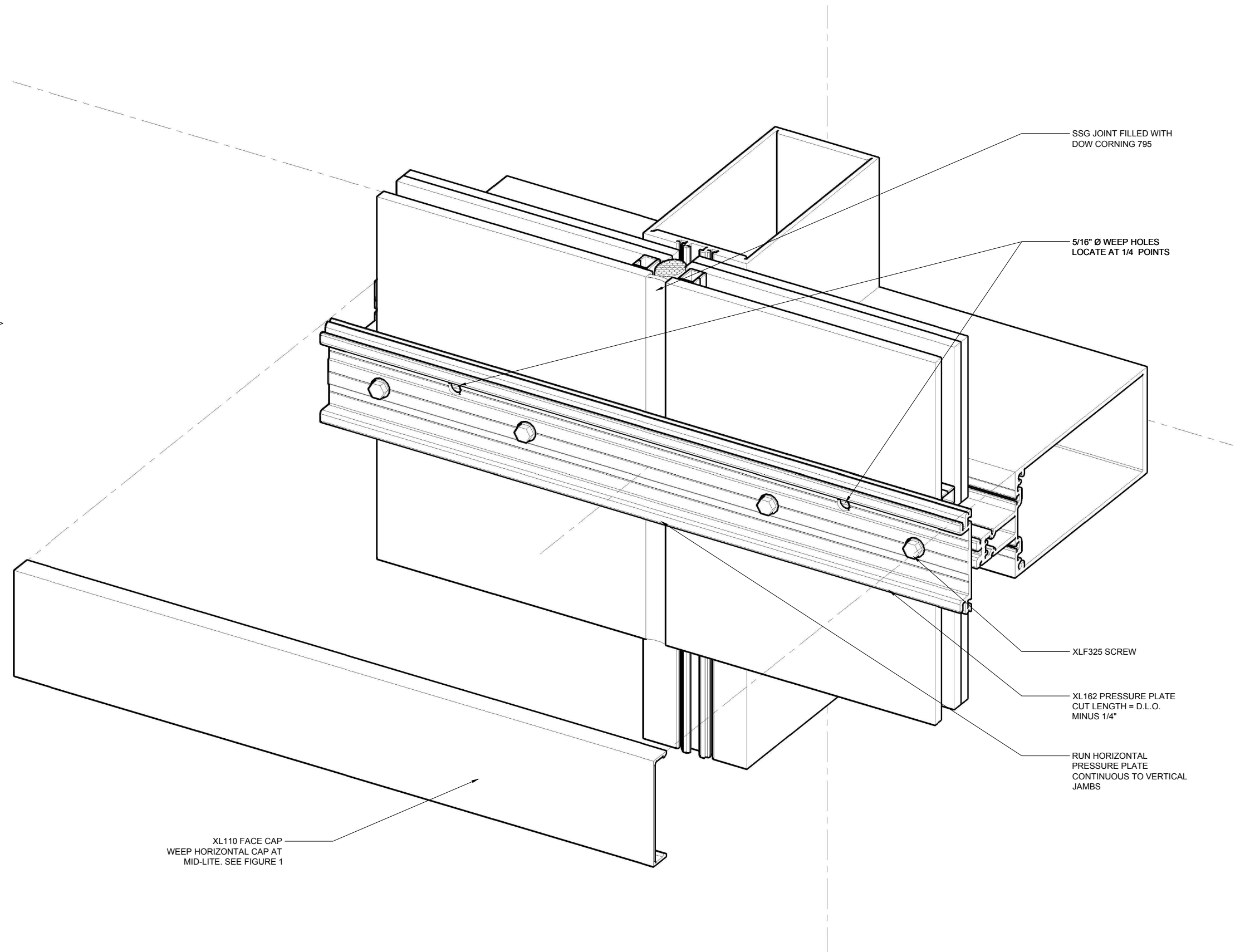
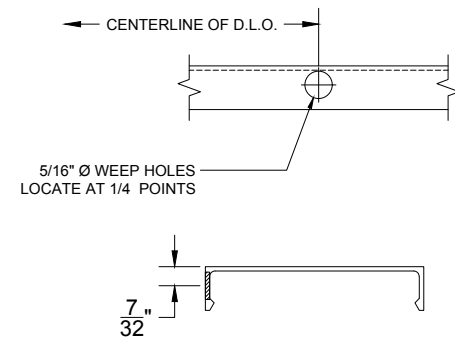
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## PRESSURE PLATE AND FACE CAP INSTALLATION

## CURTAIN WALLS

FIGURE 1

# GLAZING INSTRUCTIONS HORIZONTAL FACE CAP FABRICATION



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Description:

U.S. ALUMINUM  
STORM WALL XL  
HURRICANE RESISTANT  
CURTAIN WALL SYSTEM

Drawn By: RPD

Date: 02/03/17

Scale: AS NOTED

File Name: StormWallXL.dwg

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