

# SERIES HD500-T HURRICANE RESISTANT THERMAL STOREFRONT SYSTEM FOR USE IN HURRICANE ZONES REQUIRING LARGE MISSILE IMPACT PROTECTION ( WET GLAZE ).

**GENERAL NOTES:**

- SERIES HD500-T HURRICANE RESISTANT THERMAL STOREFRONT SYSTEM, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE, (I.B.C) AND INTERNATIONAL RESIDENTIAL CODE (I.R.C.)

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE INTERNATIONAL BUILDING CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE PRODUCT WILL BE INSTALLED.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1609.1.4 AND R301.2.1.2 OF THE ABOVE MENTIONED CODES RESPECTIVELY, AS PER ASTM E-330-14, ASTM E-1886-19, ASTM E 1996-17 PER CONSTRUCTION CONSULTING LABORATORY INTERNATIONAL REPORT CCL 21-097R PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1604 OF THE ABOVE MENTIONED CODE.

- PROVIDE 3/4" MAX. ( $\pm 1/4$ ") LOAD BEARING SHIM (TYP.) WHEN ALLOWED BY THIS DRAWING.
- REMAINING COMPONENTS FOR THIS WINDOW WALL SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 8 OF THIS DRAWING.
- ALL ALUMINUM EXTRUSIONS IN CONTACT WITH STEEL, CONCRETE, GROUT FILLED CONCRETE BLOCK AND WOOD SHALL COMPLY WITH SECTION 6.7 OF THE ALUMINUM DESIGN MANUAL ADM 2015 EDITION.
- SHOP DRAWINGS PREPARED BASED ON THIS T.D.I. REPORT AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.
- SUBSTRATE MATERIAL NOTED ON THIS DRAWING MUST WITHSTAND THE LOADS IMPOSED BY THIS PRODUCT.
- THIS PRODUCTS 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.
- THIS P.E.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.E.D.
  - CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASE ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
  - THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
  - SITE PROJECTS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER OR ARCHITECT WHICH BECOME THE ENGINEER OR RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

- PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH TEXAS DEPARTMENT OF INSURANCE REQUIREMENTS. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

**INDEX:**

- SHEET 1: GENERAL NOTES, INDEX AND INSTRUCTIONS.  
 SHEET 2: MOCK UP ELEVATION AND GLAZING DETAIL.  
 SHEET 3: MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD JAMB AND HEAVY MULLION ( Thermal and Non-Thermal ).  
 SHEET 4: ANCHOR TYPES AND LOAD CAPACITY.  
 SHEET 5: MULLION CONNECTION DETAILS  
 SHEET 6: HEAD AND SILL CONNECTION DETAILS AT SUBSTRATE. JAMB AND MULLION SECTION DETAILS.  
 SHEET 7: HORIZONTAL CONNECTIONS ( ISOMETRIC).  
 SHEET 8: BILL OF MATERIALS.

**INSTRUCTIONS:**

- STEP 1:** DETERMINE A.S.D. DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT AND WIND ZONE USING THE APPLICABLE ASCE 7.
- STEP 2:** DETERMINE THE MAXIMUM MULLION SPAN (FRAME HEIGHT ) FOR THE INSTALLATION AND SELECT A DESIRED MULLION SPACING (TRIBUTARY WIDTH). REFER TO FIGURE ON SHEET 3 OF 8 FOR GUIDANCE ON TRIBUTARY WIDTH. USE THIS INFORMATION IN STEPS 3, 4 AND 5.
- STEP 3 :** DETERMINE THE GLASS CAPACITY FROM TABLE ON SHEET 2 OF 8. DEPENDING ON WHETHER THE SYSTEM IS NON-THERMAL OR THERMAL. THE GLASS CAPACITY MUST EXCEED THE DESIGN WIND LOAD FROM STEP 1.
- STEP 4 :** DETERMINE THE MULLION CAPACITY FOR THE JAMB MULLION AND THE HEAVY MULLION FOR EITHER THERMAL OF NON-THERMAL SYSTEMS FROM TABLE ON SHEET 3 OF 8. THE MULLION CAPACITY MUST EXCEED THE DESIGN WIND LOAD FROM STEP 1.
- STEP 5 :** DETERMINE THE ANCHOR LOAD CAPACITY AS A FUNCTION OF ANCHOR TYPE AND SYSTEM TYPE (NON-THERMAL OR THERMAL) FROM TABLE ON SHEET 4 OF 8. ANCHOR LAYOUT IS SHOWN ON SHEET 5 OF 8. THE ANCHOR CAPACITY MUST EXCEED THE DESIGN WIND LOAD FROM STEP 1.
- STEP 6 :** IF THE CAPACITIES FROM STEPS 3, 4 OR 5 DO NOT EXCEED THE DESIGN WIND LOAD FROM STEP 1, REVISE THE MULLION SPACING (TRIBUTARY WIDTH) FROM STEP 2 AND REPEAT PROCESS.

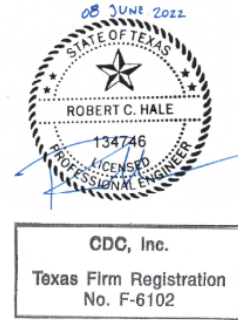
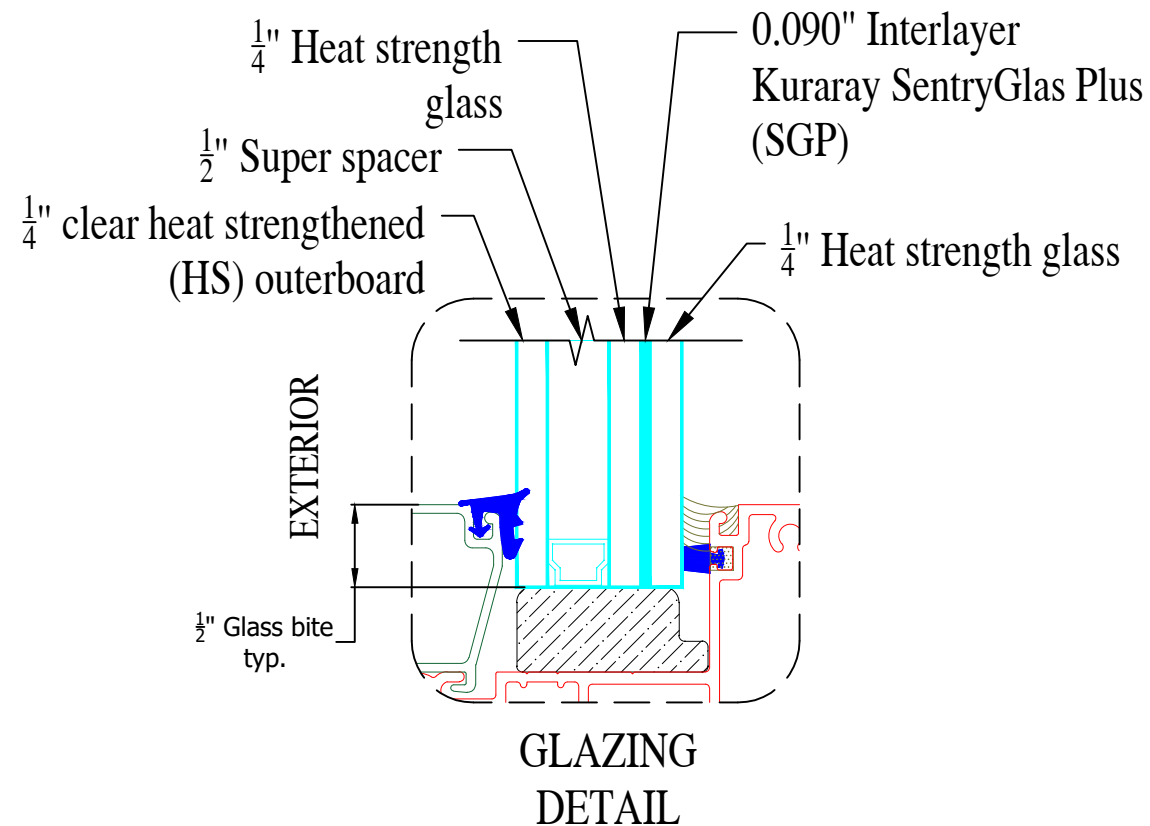
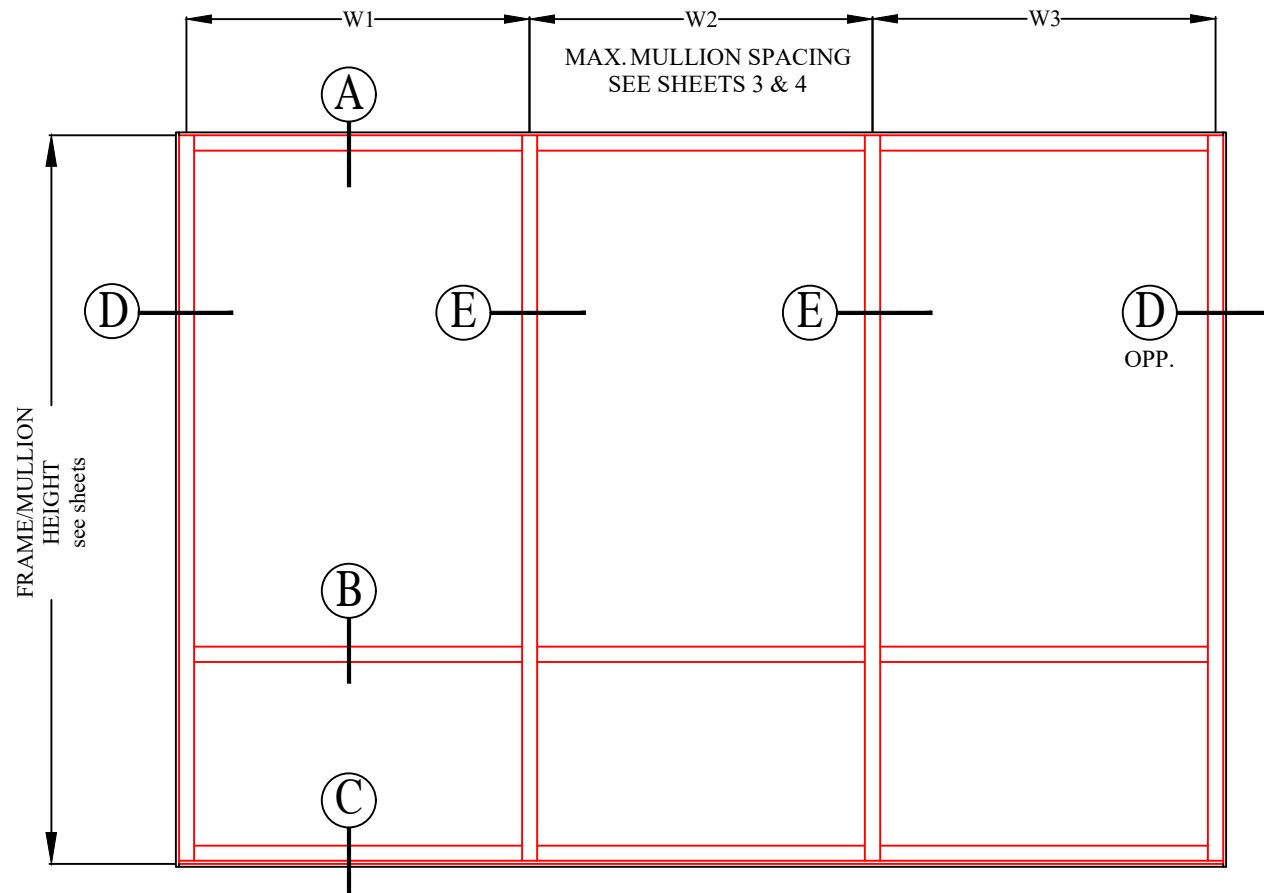
AN APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT WHEN INSTALLED IN AREAS WHERE IMPACT PROTECTION IS REQUITED.

GLASS MEETS THE REQUIREMENTS OF ASTM E 1300.

DRAWING SHALL BE USED TO OBTAIN PERMITS UNDER THE TEXAS DEPARTMENT OF INSURANCE JURISDICTION .



TEXAS DEPARTMENT OF INSURANCE 2022	HD500-T LARGE MISSILE IMPACT ALUMINUM STOREFRONT SYSTEM	<p>CDC CURTAINWALL DESIGN CONSULTING</p>	<p>ARCHITECTURAL METALS, INC.</p>
		8070 PARK LANE, SUITE 400 DALLAS, TX 75231 PH: 972-437-4200 FAX: 972-437-4562 CDC-USA.COM	11940 Britton Park Dr. Houston, TX 77041 PH: 713-889-9551 Fax: 713-889-4254
		PROJECT: _____ DRAWN BY: M. Camarena CHECKED BY: _____ SCALE: _____	DRAWING NO. : <b>HD500T-22</b> DATE: <b>06/07/22</b> SHEET NUMBER <b>1 of 8</b>



DLO WIDTH [in]	DLO HEIGHT [in]	Non-Thermal System	Thermal System
		GLAZING MAKEUP 1/4" HS - 1/2 AIR GAP - 1/4" HS -0.060 SGP - 1/4" HS	GLAZING MAKEUP 1/4" HS - 1/2 AIR GAP - 1/4" HS -0.060 SGP - 1/4" HS
		Glass Capacity [psf], +/-	Glass Capacity [psf], +/-
46	36	60	50
	48	60	50
	56	60	50
	62	60	50
	70	60	50
	78	60	50
49	81.75	60	50
	36	60	50
	48	60	50
	56	60	50
	62	60	50
	70	60	50
52	78	60	50
	81.75	60	50
	36	60	50
	48	60	50
	56	60	50
	62	60	50
54	70	60	50
	78	60	50
	81.75	60	50
	36	60	50
	48	60	50
	56	60	50

GLASS MEETS THE REQUIREMENTS OF ASTM E 1300.

TEXAS DEPARTMENT OF INSURANCE 2022 HD500-T LARGE MISSILE IMPACT ALUMINUM STOREFRONT SYSTEM

PROJECT :	PROJ. NO. :	DATE :
DRAWN BY : M. Camarena	NO. :	NO. :
CHECKED BY :	NO. :	NO. :
SCALE :	NO. :	NO. :
DRAWING NO. :		
DATE : 06/07/22		
SHEET NUMBER : 2 of 8		



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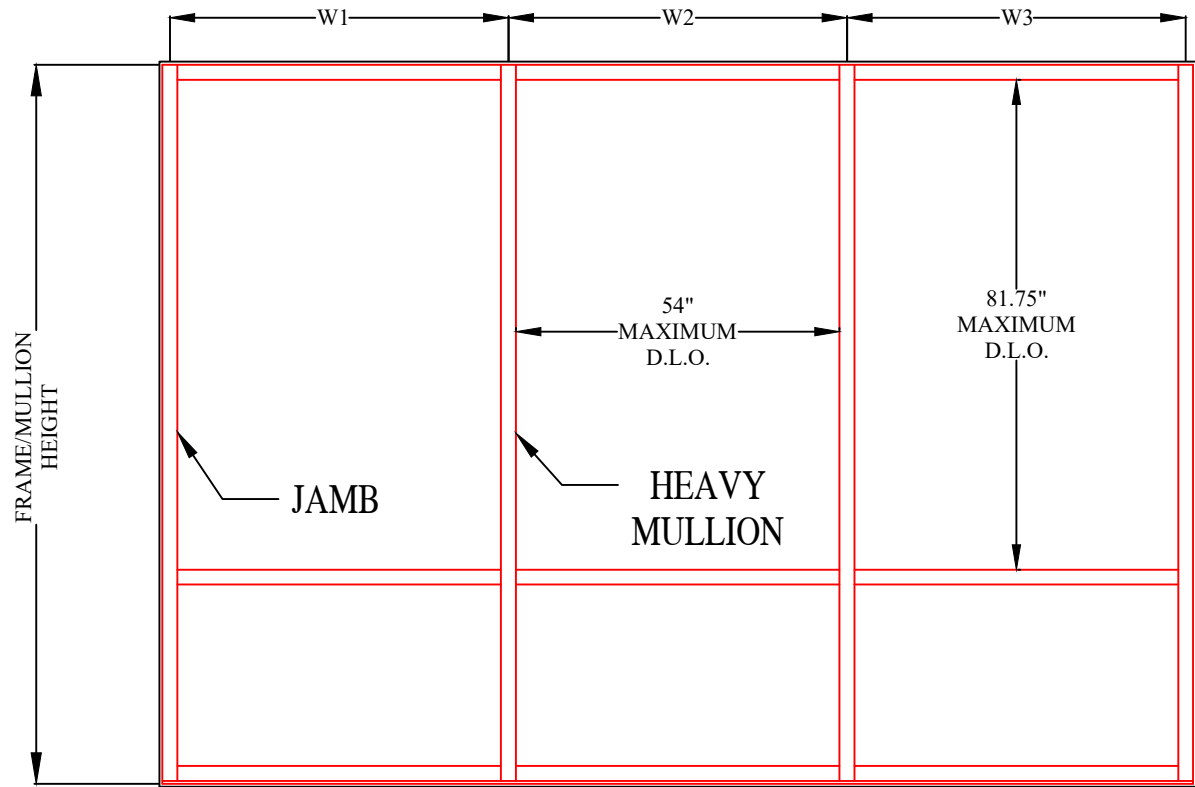
FRAMING CAPACITIES ARE BASED ON THE PROVISIONS WITHIN ADM 2015 AND AAMA TIR A11 FOR FRAMING CAPACITY AND DEFLECTION CAPACITY. DEFLECTIONS OVER A SINGLE LITE OF GLASS MUST BE DETERMINED INDEPENDENTLY AND ARE NOT TO EXCEED 3/4".



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Texas Firm Registration  
No. F-6102

TRIBUTARY WIDTH ( TW ) =  $W1/2$  ( JAMB )

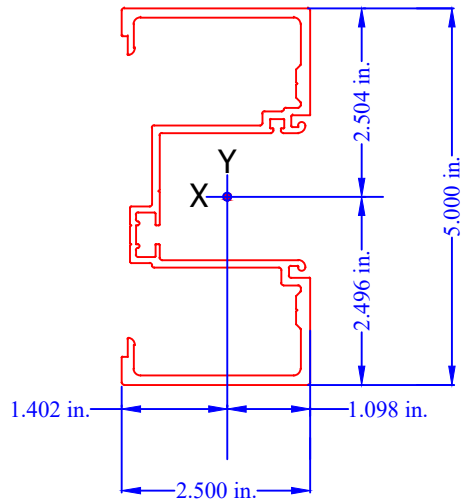
TRIBUTARY WIDTH ( TW ) =  $\frac{W2 + W3}{2}$  ( HEAVY MULLION )



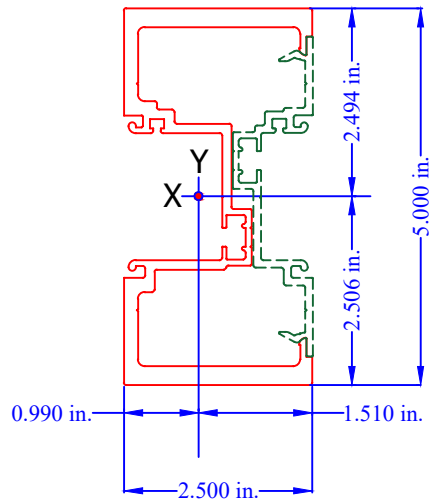
Design Pressure Table: Vertical Section Capacity - Single Span

Tributary Width "TW" [in]	Span Height "L" [in]	Non-Thermal Heavy Mullion [psf], +/-	Thermal Heavy Mullion [psf], +/-	Non-Thermal Jamb Mullion [psf], +/-	Thermal Jamb Mullion [psf], +/-
36	96	60	50	60	50
42		60	50	60	50
48		60	50	60	50
54		60	50	60	50
60		60	50	59	50
66		60	50	54	46
72		60	50	49	42
36	102	60	50	60	50
42		60	50	60	50
48		60	50	60	50
54		60	50	58	49
60		60	50	52	45
66		60	50	48	40
72		60	50	44	37
36	108	60	50	60	50
42		60	50	60	50
48		60	50	58	50
54		60	50	52	44
60		60	50	47	40
66		60	50	42	36
72		60	50	39	33
36	114	60	50	60	50
42		60	50	60	50
48		60	50	52	45
54		60	50	47	40
60		60	50	42	36
66		60	50	38	32
72		55	47	35	30
36	120	60	50	60	50
42		60	50	53	45
48		60	50	46	39
54		60	50	41	35
60		57	49	37	31
66		52	44	33	28
72		48	40	31	26
36	126	60	50	53	45
42		60	50	45	39
48		60	50	40	34
54		55	47	35	30
60		49	42	32	27
66		45	38	29	25
72		41	35	27	23

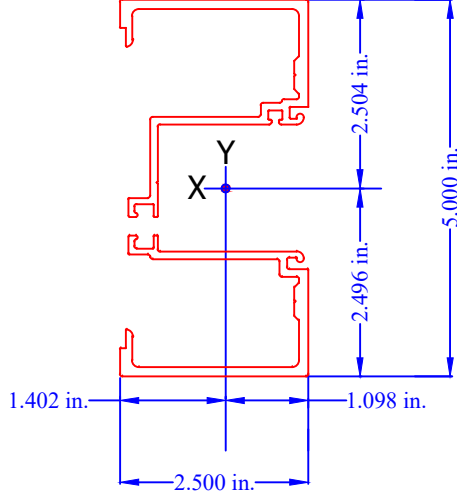
JAMB MULLION



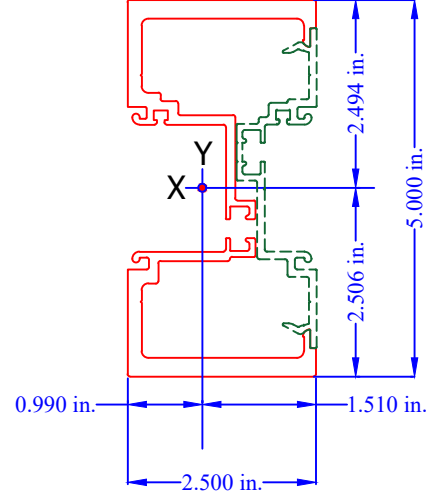
HEAVY MULLION



THERMAL JAMB MULLION



THERMAL HEAVY MULLION



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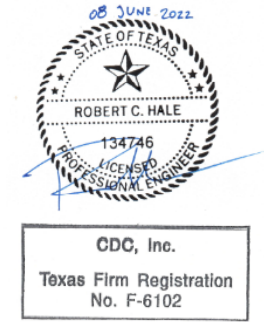
**AMUS** ARCHITECTURAL METALS, INC.  
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PROJECT: HD500-T  
DRAWN BY: M.Camarena  
CHECKED BY:  
SCALE:  
DRAWING NO.: HD500T-22  
DATE: 06/07/22  
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# ANCHOR TYPES & LOAD CAPACITY

## THERMAL & NON-THERMAL



Anchor Load Capacity - Anchor Type [psf] +/-							
Tributary Width "TW" [in]	Span Height "L" [in]	Types 1, 2, 3, 5		Types 1, 2, 3, 5		Type 4	
		Non-Thermal 6 Fasteners	Non-Thermal 12 Fasteners	Thermal 6 Fasteners	Thermal 12 Fasteners	Non-Thermal 4 Fasteners	Thermal 4 Fasteners
36	96	58	60	50	50	60	50
42		50	60	50	50	60	50
48		44	60	44	50	60	50
54		39	60	39	50	60	50
60		35	60	35	50	60	50
66		32	60	32	50	60	50
72	29	59	29	50	59	50	
36	102	55	60	50	50	60	50
42		47	60	47	50	60	50
48		41	60	41	50	60	50
54		37	60	37	50	60	50
60		33	60	33	50	60	50
66		30	60	30	50	60	50
72	27	55	27	50	55	50	
36	108	52	60	50	50	60	50
42		44	60	44	50	60	50
48		39	60	39	50	60	50
54		35	60	35	50	60	50
60		31	60	31	50	60	50
66		28	57	28	50	57	50
72	26	52	26	50	52	50	
36	114	49	60	49	50	60	50
42		42	60	42	50	60	50
48		37	60	37	50	60	50
54		33	60	33	50	60	50
60		29	59	29	50	59	50
66		27	54	27	50	54	50
72	25	49	25	49	49	49	
36	120	47	60	47	50	60	50
42		40	60	40	50	60	50
48		35	60	35	50	60	50
54		31	60	31	50	60	50
60		28	56	28	50	56	50
66		25	51	25	50	51	50
72	23	47	23	47	47	47	
36	126	44	60	44	50	60	50
42		38	60	38	50	60	50
48		33	60	33	50	60	50
54		30	60	30	50	60	50
60		27	54	27	50	54	50
66		24	49	24	49	49	49
72	22	45	22	45	45	45	

**TYPICAL ANCHORS AT HEADER AND SILL:**

**TYPE 1 - STUD FRAMING SUBSTRATE ( LIGHT GAUGE STEEL STUD FRAMING):**

1/4 -20 x 2-1/2LG #4 PT DRILL FLEX @ 1" O.C.  
INTO MIN. 16 GAUGE (FY=50KSI STUD FRAMING BY OTHERS.)

**TYPE 2 - STEEL FRAME SUBSTRATE:**

1/4 -20 x 2-1/2LG #4 PT DRILL FLEX @ 1" O.C.  
INTO MIN. 1/8" ASTM A36 STEEL OR ASTM A500 GR.B HSS  
MAX. 5/16" THICK STEEL PER ESR-3332

**TYPE 3 - ALUMINUM SUBSTRATE:**

1/4-20 x 2-1/2LG #4 PR DRILL FLEX @ 1" O.C.  
INTO MIN. 1/8" 6063-T6 MIN. ALUMINUM

**TYPE 4 - CONCRETE SUBSTRATE:**

(4) 1/2" HILTI KB TZ2 @ 4" O.C.  
INTO MIN. 3000 PSI NWC  
3-3/4" MIN. EMBEDMENT  
4-1/2" MIN. EDGE DISTANCE

**TYPE 5 - WOOD SUBSTRATE:**

SIMPSON STRONG DRIVE SDS WOOD SCREWS MIN. 3-1/2" LG  
@ 3" O.C. SPACING INTO MIN. SG 0.5 PER ESR-2236 MIN. 1-1/2"  
ACTUAL THICKNESS INSTALLED PER ESR-2236 REQUIREMENTS

FOR STEEL AND ALUMINUM, ANCHOR MUST BE SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS OF PENETRATION BEYOND THE WALL OF THE METAL.

**ANCHORS**

TEXAS DEPARTMENT OF INSURANCE 2022 HD500-T LARGE MISSILE IMPACT ALUMINUM STOREFRONT SYSTEM

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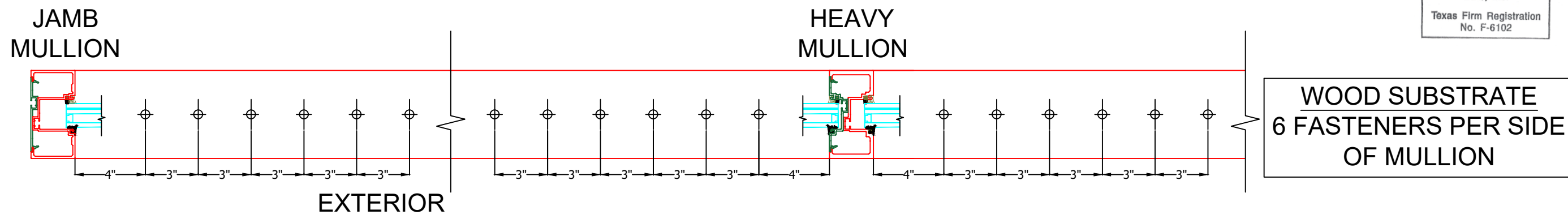
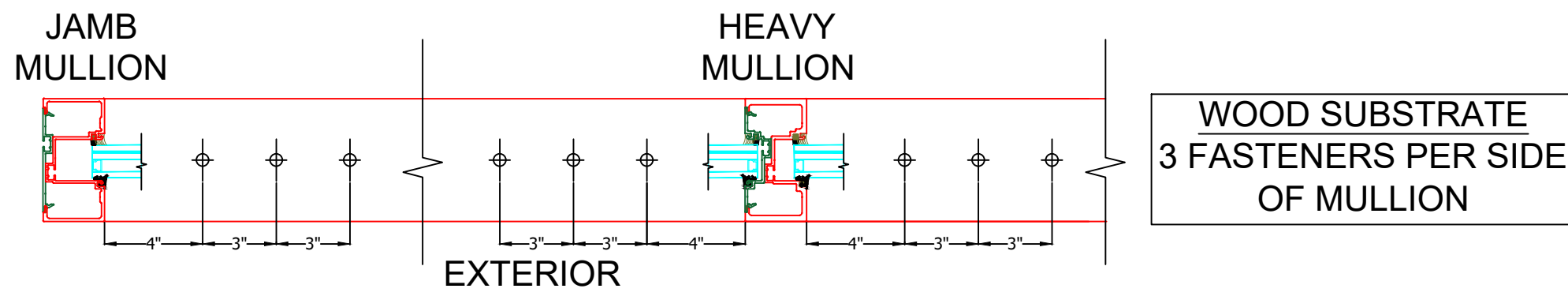
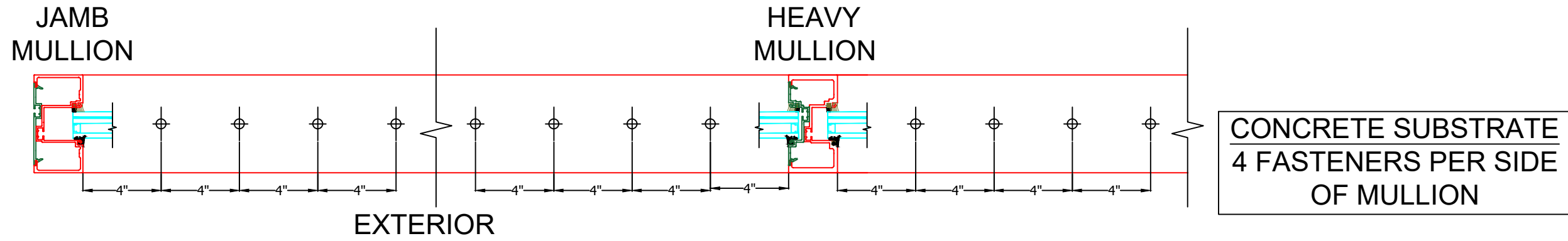
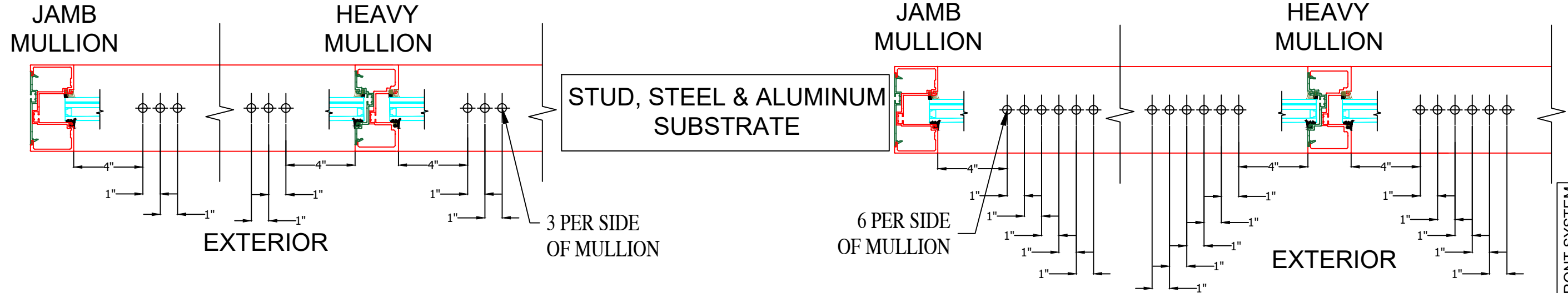
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PROJECT:	
DRAWN BY:	M.Camarena
CHECKED BY:	
SCALE:	

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# MULLION ANCHOR CONNECTIONS THERMAL & NON-THERMAL



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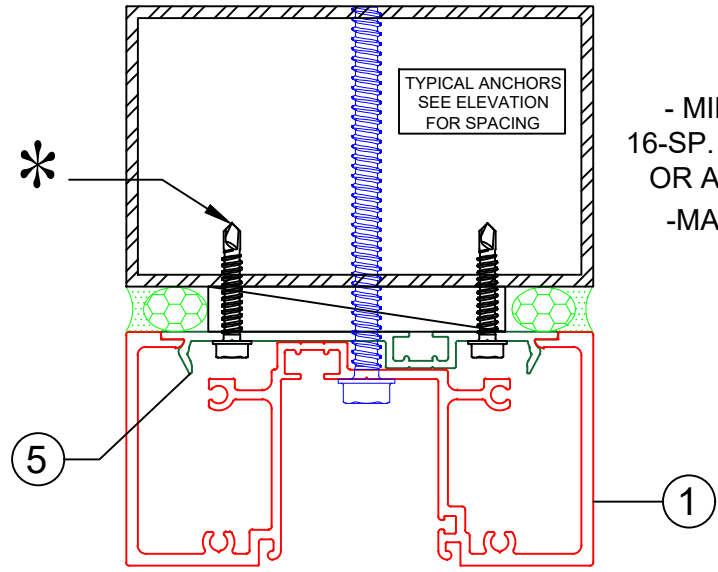
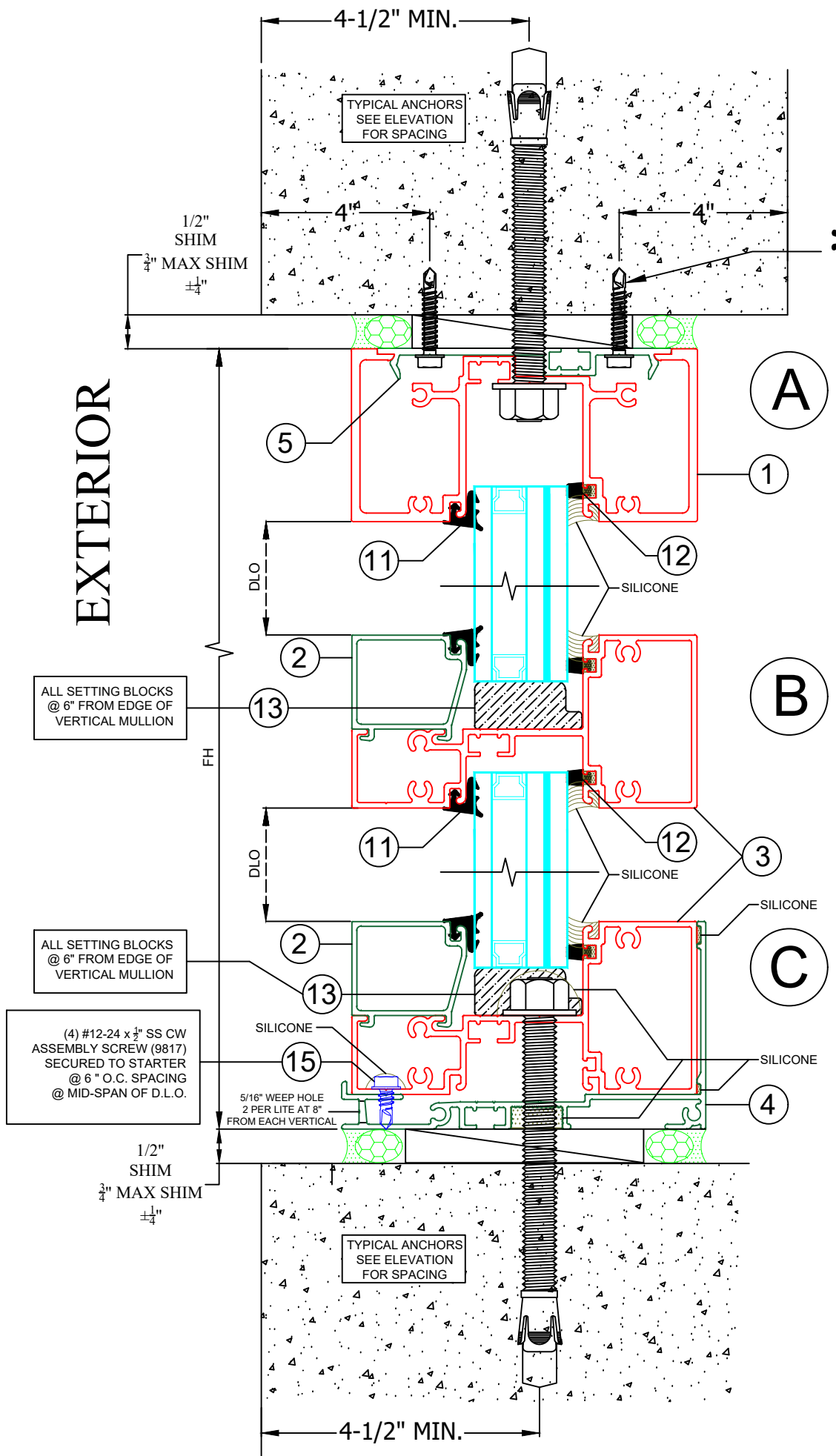
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DRAWN BY: M.Camarena	DATE
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SCALE:	

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SHEET NUMBER: 5 of 8

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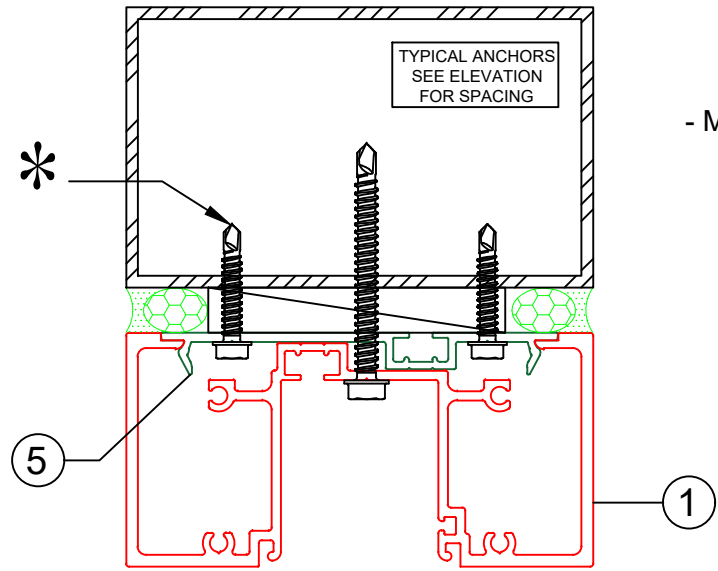
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EXTERIOR

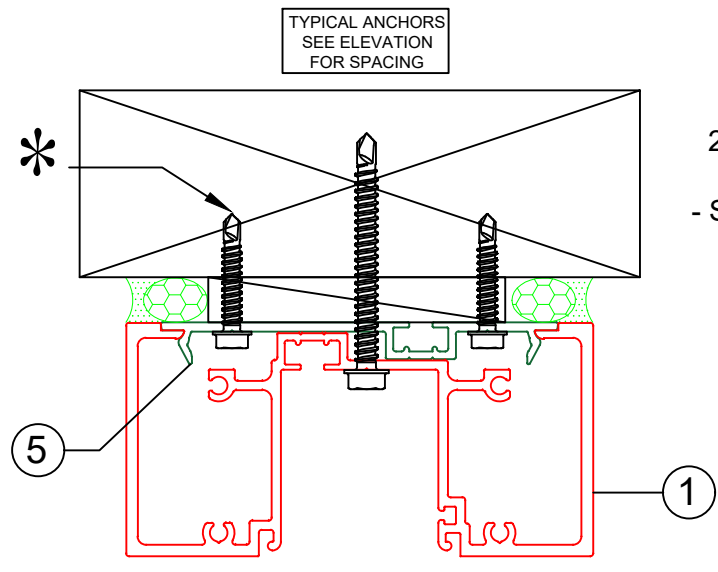
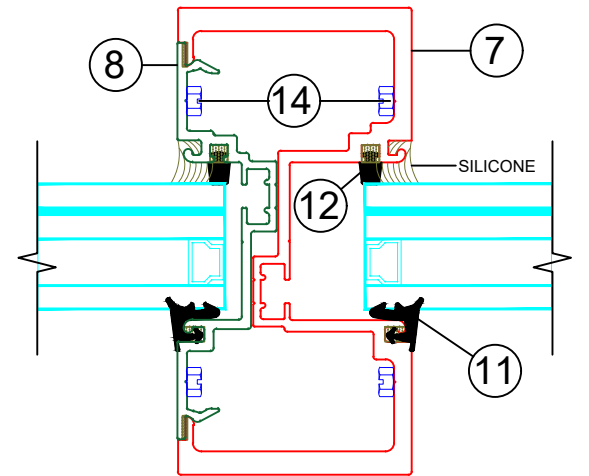
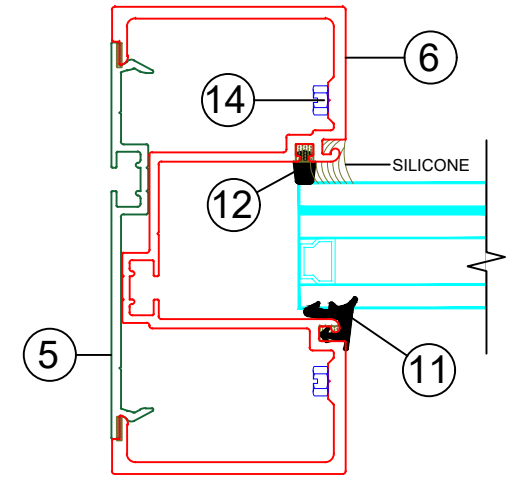


STEEL FRAME SUBSTRATE  
- MINIMUM 1/8" ASTM A36, 16-SP. GAUGE STEEL STUDS OR ASTM A500 GR. B HSS  
- MAX. 5/16" PER ESR-3332

CDC, Inc.  
Texas Firm Registration No. F-6102



ALUMINUM SUBSTRATE  
- MINIMUM 1/8" 6063-T6



2BY WOOD STUDS SUBSTRATE  
- SG = 0.50 MINIMUM

\* 3/16" x 2" (FOR CONCRETE), 3/16" x 2" LAG SCREW (FOR WOOD) OR 3/16" x 1" S.S. SCREWS NON-STRUCTURAL FASTENERS, LOCATE (2) AT EACH END AND (2) AT MID LENGTH TO SECURE PERIMETER FILLER (8953) UNTIL FASTENERS ARE INSTALLED.  
\*\* PERIMETER HARDWARE PROVIDED BY OTHERS.

TEXAS DEPARTMENT OF INSURANCE 2022 HD500-T LARGE MISSILE IMPACT ALUMINUM STOREFRONT SYSTEM

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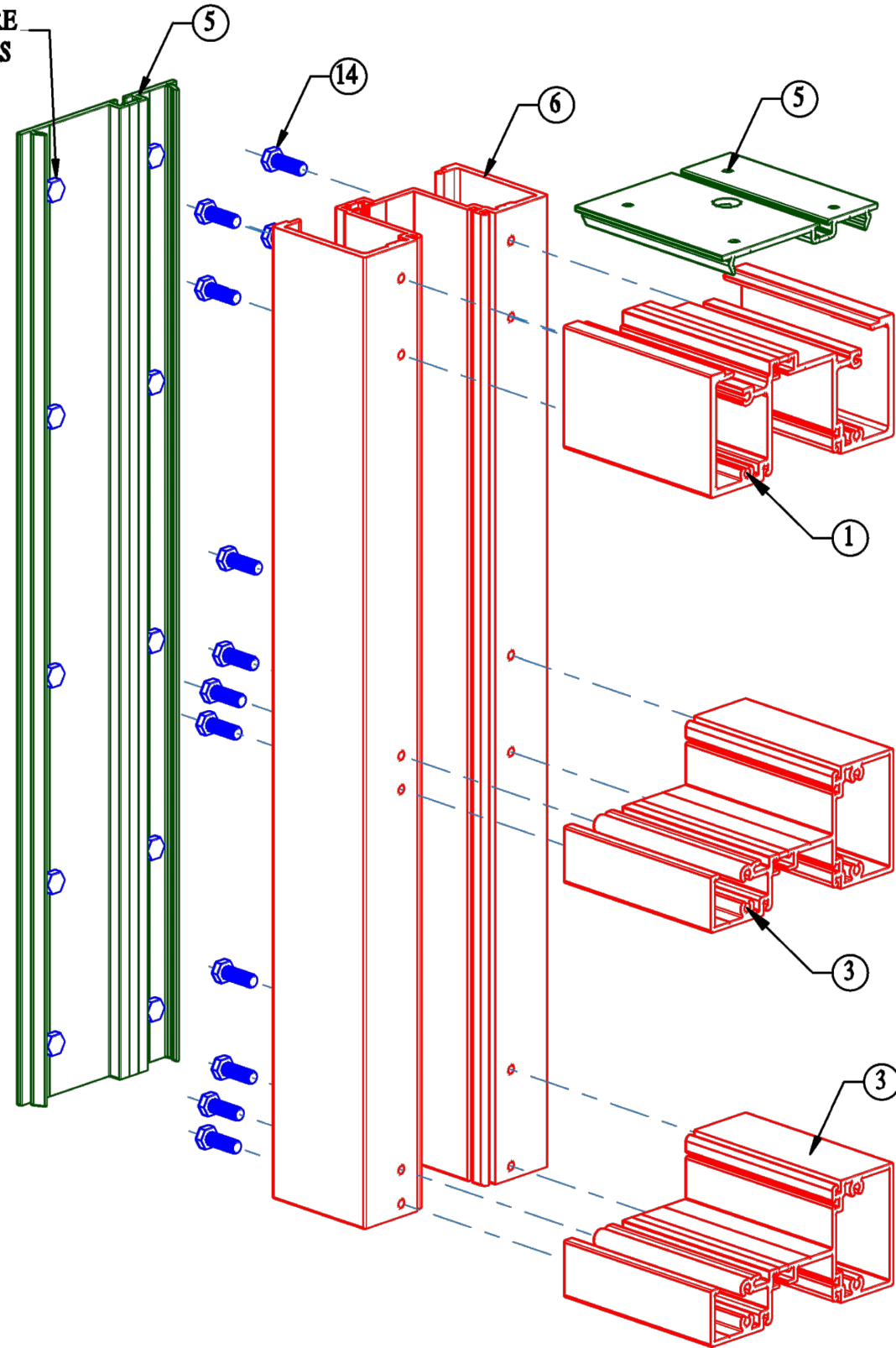
CDC CURTAINWALL DESIGN CONSULTING  
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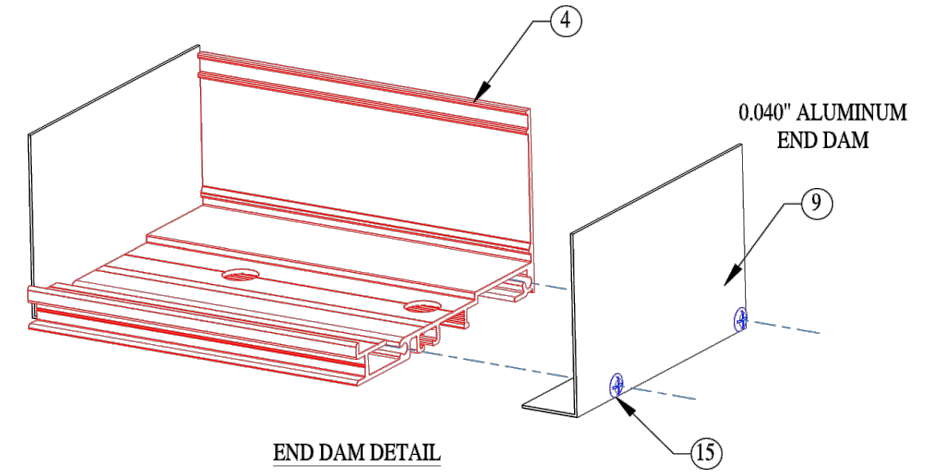
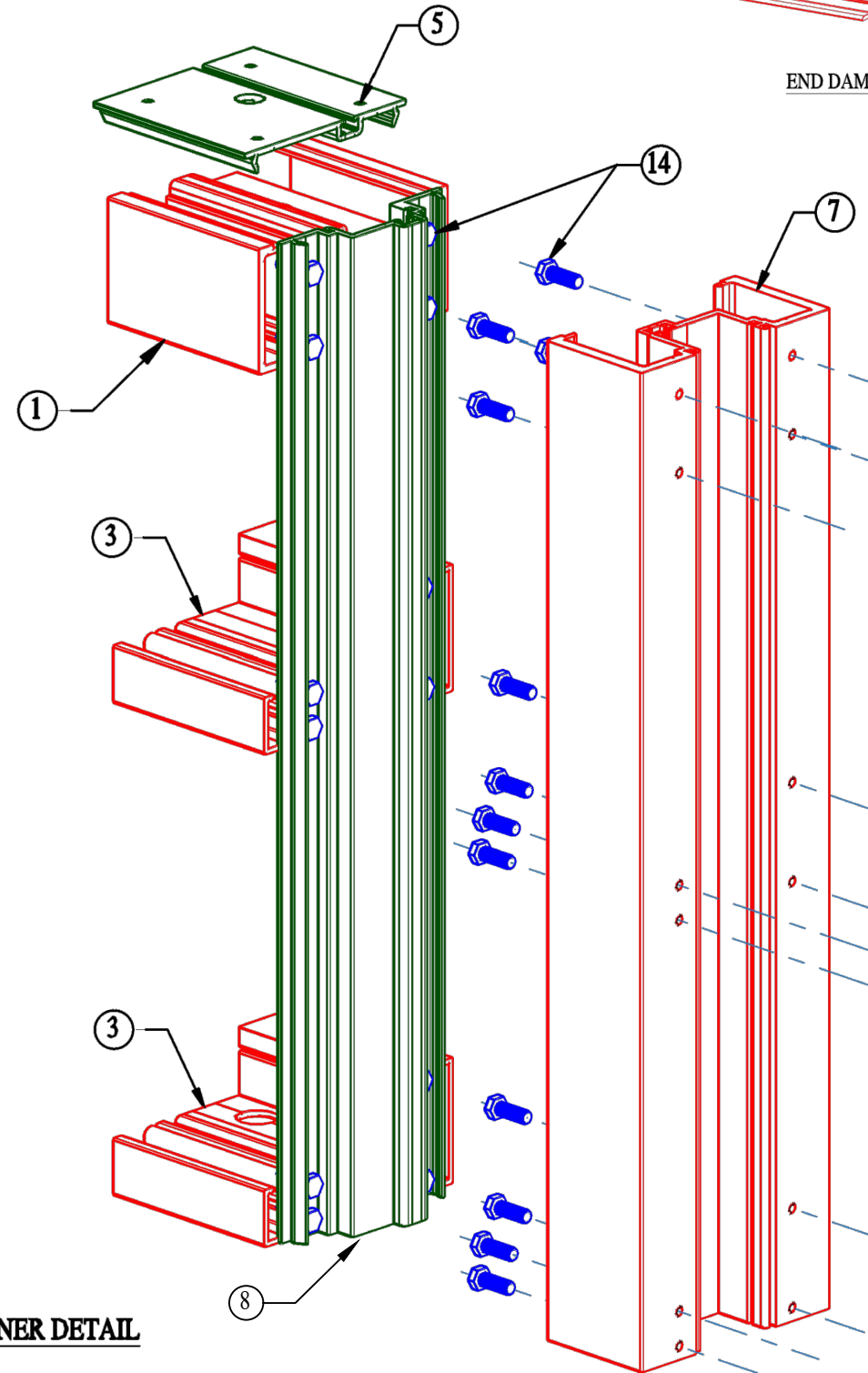
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PERIMETER  
HARDWARE  
BY OTHERS



**CORNER DETAIL**



**END DAM DETAIL**

06 JUNE 2022  
STATE OF TEXAS  
ROBERT C. HALE  
134746  
LICENSED PROFESSIONAL ENGINEER

**CDC, Inc.**  
Texas Firm Registration  
No. F-6102

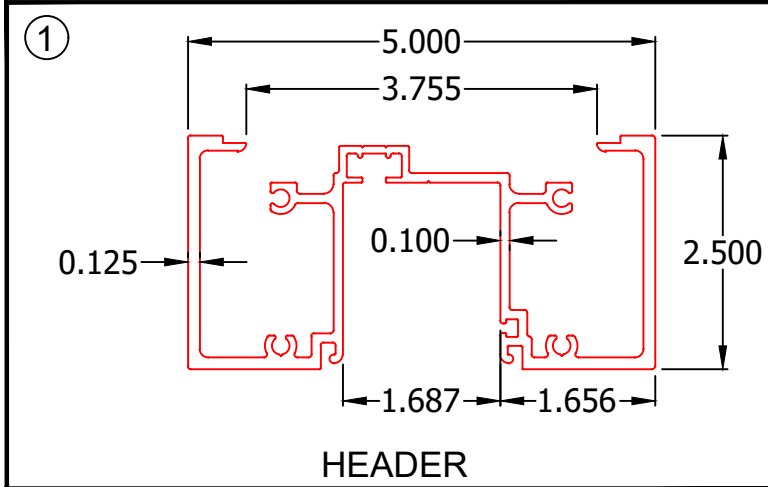
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DRAWN BY:	M. Camarena
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SCALE:	
DRAWING NO.:	HD500T-22
DATE:	06/07/22
SHEET NUMBER:	7 of 8

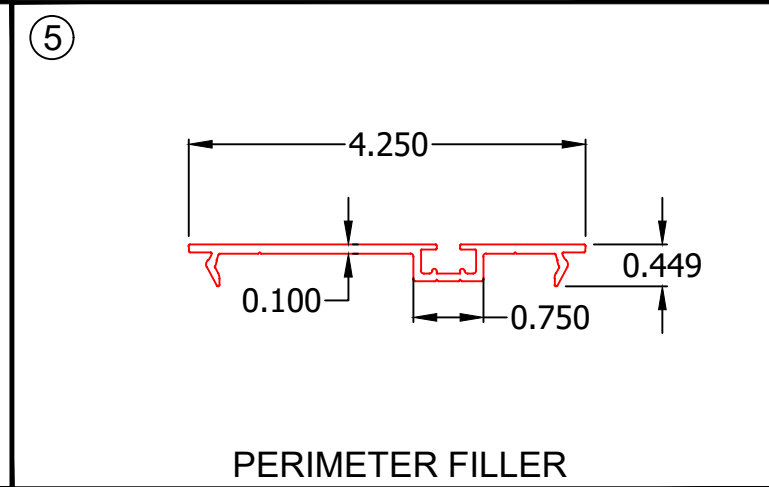
**CDC**  
CURTAINWALL DESIGN CONSULTING  
8070 PARK LANE, SUITE 400  
DALLAS, TX 75231  
PH: 972-437-4200 FAX: 972-437-4562  
CDC-USA.COM

**AMUS**  
ARCHITECTURAL METALS, INC.  
11940 Britton Park Dr.  
Houston, TX 77041  
PH: 713-889-9551 Fax: 713-889-4254

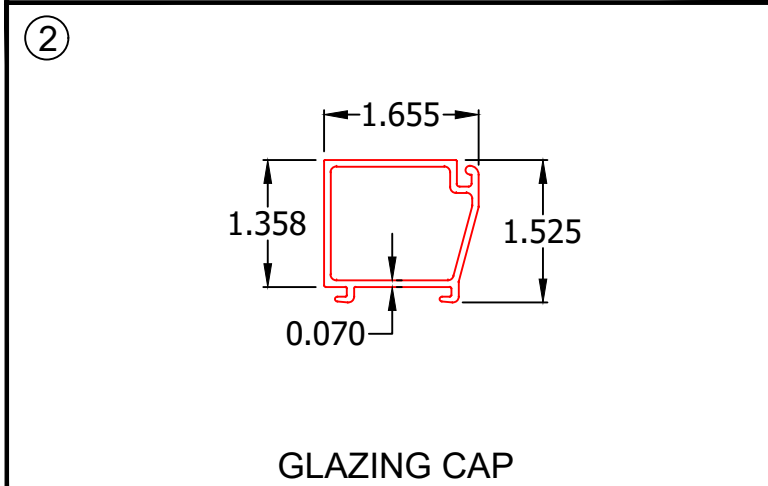
NO.	DATE	REVISION	INDEX



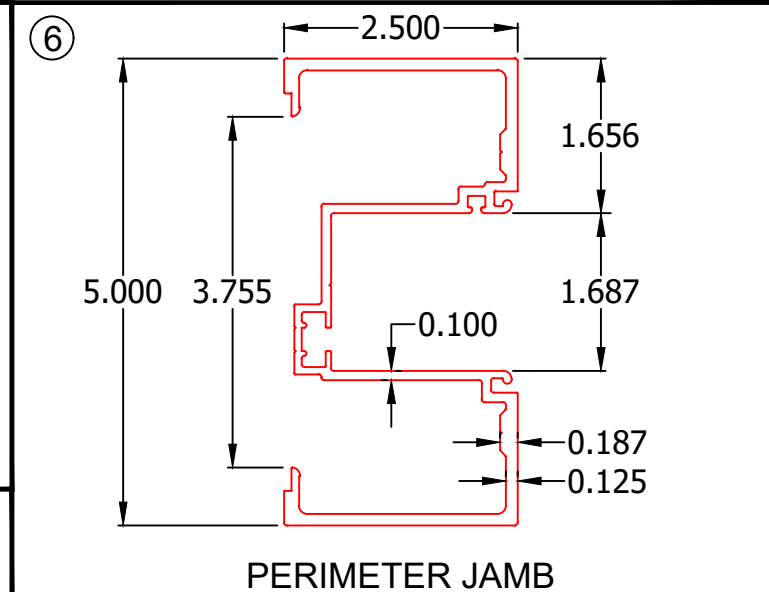
HEADER



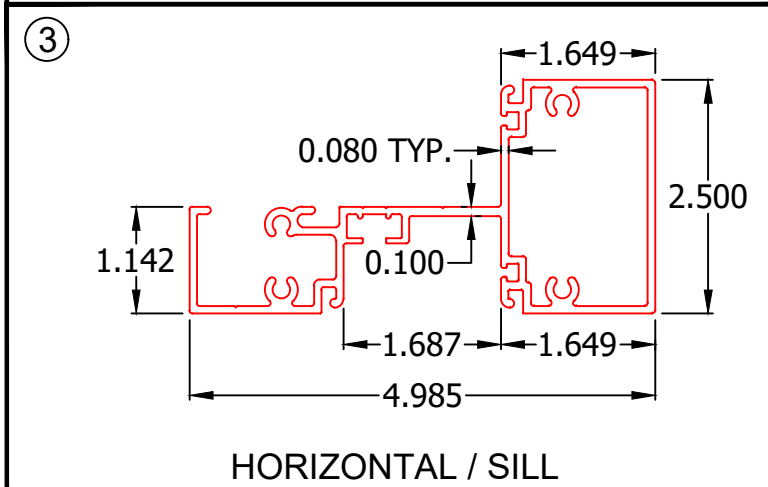
PERIMETER FILLER



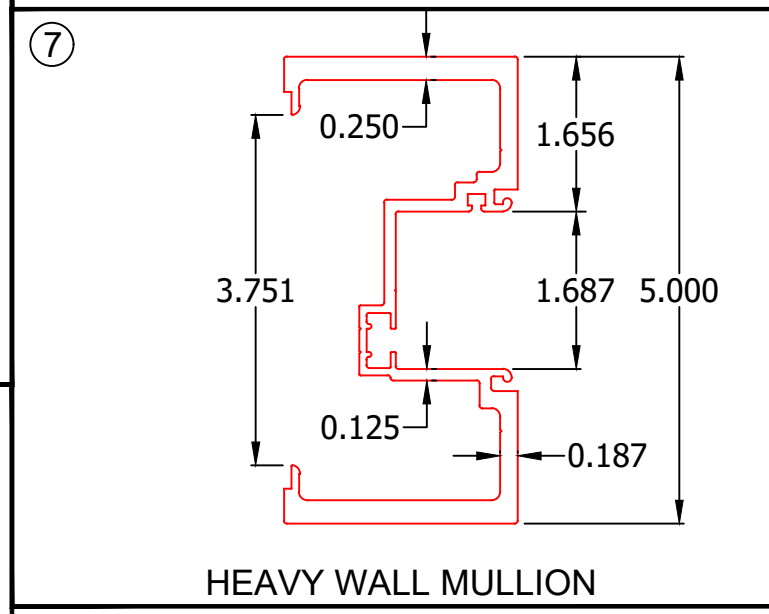
GLAZING CAP



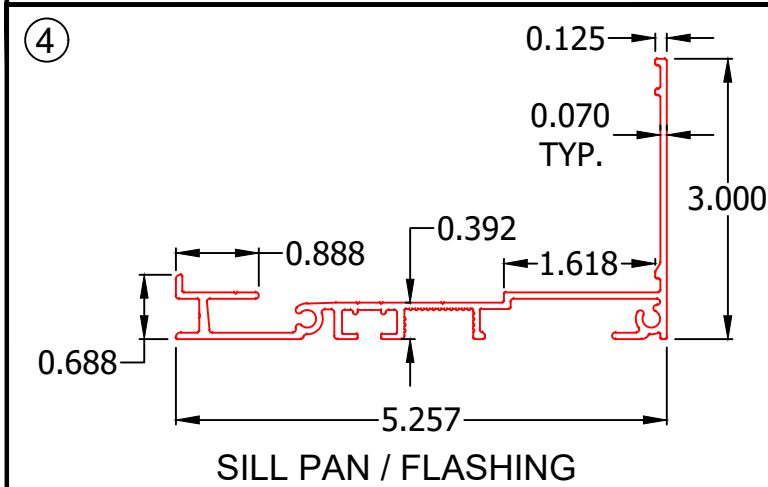
PERIMETER JAMB



HORIZONTAL / SILL



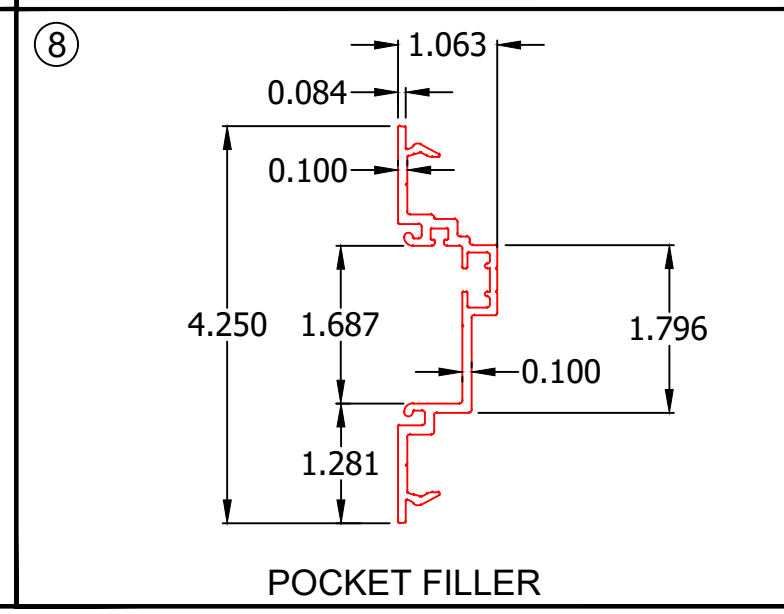
HEAVY WALL MULLION



SILL PAN / FLASHING

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANF. / NOTES
1	8951	HEADER	6063-T6	
2	8954	GLAZING CAP	6063-T6	
3	8952	HORIZONTAL / SILL	6063-T6	
4	8955	SILL PAN / FLASHING	6063-T6	
5	8953	PERIMETER FILLER	6063-T6	
6	8946	PERIMETER JAMB	6063-T6	
7	8948	HEAVY WALL MULLION	6063-T6	
8	8949	POCKET FILLER	6063-T6	
9	4019	5" END DAM	ALUM. .040	
10	8015	WATER DIVERTER	ALUM. .040	
11	9100XXRX	EXTERIOR FLUSH GLAZE	EPDM	
12	9810XXRX	INTERIOR H-70 DURO GASKET	EPDM	
13	9809XXXX	SETTING BLOCK	EPDM	
14	9817	ASSMBLY SCREW	STEEL	#14 x 1" HHSTS SS CW
15	9818	PHILLIPS PAN HEAD SCREW	STEEL	#12-24 SS CW

SEALANTS :  
ALL FRAME CORNERS JOINTS AND INSTALLATION SCREWS AT SILL  
SEALED WITH SILICONE.



POCKET FILLER

TEXAS DEPARTMENT OF INSURANCE 2022 HD500-T LARGE MISSILE IMPACT ALUMINUM STOREFRONT SYSTEM

NO.	DATE	REVISION INDEX

**CDC**  
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PROJECT :	
DRAWN BY :	M.Camarera
CHECKED BY :	
SCALE :	



CDC, Inc.  
Texas Firm Registration  
No. F-6102

DRAWING NO. :	HD500T-22
DATE	06/07/22
SHEET NUMBER	8 of 8