

KAWNEER 1600 WALL CURTAINWALL SYSTEM 10" SYSTEM 1 LARGE AND SMALL MISSILE IMPACT RESISTANT

GENERAL NOTES:

1. THIS PRODUCT MEETS ALL OF THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
2. THIS SYSTEM HAS BEEN TESTED PER TAS 201, 202, AND 203 FOR LARGE AND SMALL MISSILE IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
3. DESIGN LOADS MUST BE CALCULATED BY A PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT. THE (ASD) DESIGN PRESSURE CANNOT EXCEED THE PRESSURES LISTED FOR EACH COMPONENT OF THIS SYSTEM.
4. WOOD BUCKS ARE BY OTHERS AND MUST BE ANCHORED PROPERLY TO TRANSFER IMPOSED LOADS TO THE STRUCTURE.
5. ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT IN BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
6. CODE REQUIREMENTS FOR SAFE GUARDS MUST BE OBSERVED.
7. THE GLASS CHARTS IN SECTION 5 ARE BASED ON TESTED PRESSURES AND ASTM E 1300-16, AND ALSO LIMITED BY THE ALLOWABLE STRESS OF THE STRUCTURAL SILICONE FOR SSG MULLIONS.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH DISSIMILAR MATERIALS SHALL BE SEPARATED TO PREVENT GALVANIC REACTIONS PER FBC REQUIREMENTS.
9. THE INSTALLATION DETAILS SHOWN IN THIS APPROVAL ARE GENERIC. SITE SPECIFIC DETAILS THAT VARY FROM THE CONDITIONS SHOWN MUST BE APPROVED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT AND THE LOCAL BUILDING OFFICIAL.

SYSTEM NOTES:

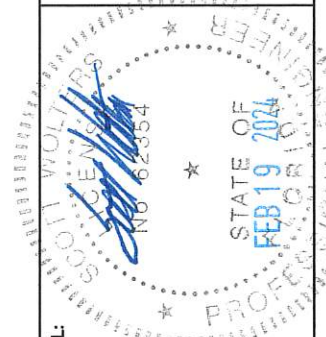
- GLASS..... SEE CHARTS IN SECTION 05 FOR ALLOWABLE GLASS TYPES, SIZES AND DESIGN PRESSURES.
- MULLIONS..... SEE CHARTS IN SECTION 04 FOR ALLOWABLE DESIGN PRESSURES FOR VARIOUS MULLION AND REINFORCEMENT CONFIGURATIONS.
- JAMBS..... SEE CHARTS IN SECTION 04 (FREE JAMBS) AND SECTION 06 (FASTENED JAMB) FOR ALLOWABLE DESIGN PRESSURES.
- HORIZONTALS..... SEE NOTES IN HORIZONTAL DETAILS FOR HORIZONTAL MULLION LIMITATIONS.
- ANCHORS..... SEE CHARTS IN SECTION 06 FOR ALLOWABLE LOADS FOR HEAD/SILL ANCHORS AND FASTENED JAMBS.
- SYSTEM..... THE DESIGN PRESSURE OF THE ENTIRE SYSTEM IS THE LOWEST ALLOWABLE DESIGN PRESSURE OF THE COMPONENTS ABOVE.
- DOORS..... DOORS AND THEIR SUB-FRAMES ARE NOT A PART OF THIS APPROVAL. PLEASE SEE SEPARATE APPROVAL FOR DOOR RATING, GLAZING, ANCHORS, HARDWARE, AND DETAILS.

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1		2/19/24
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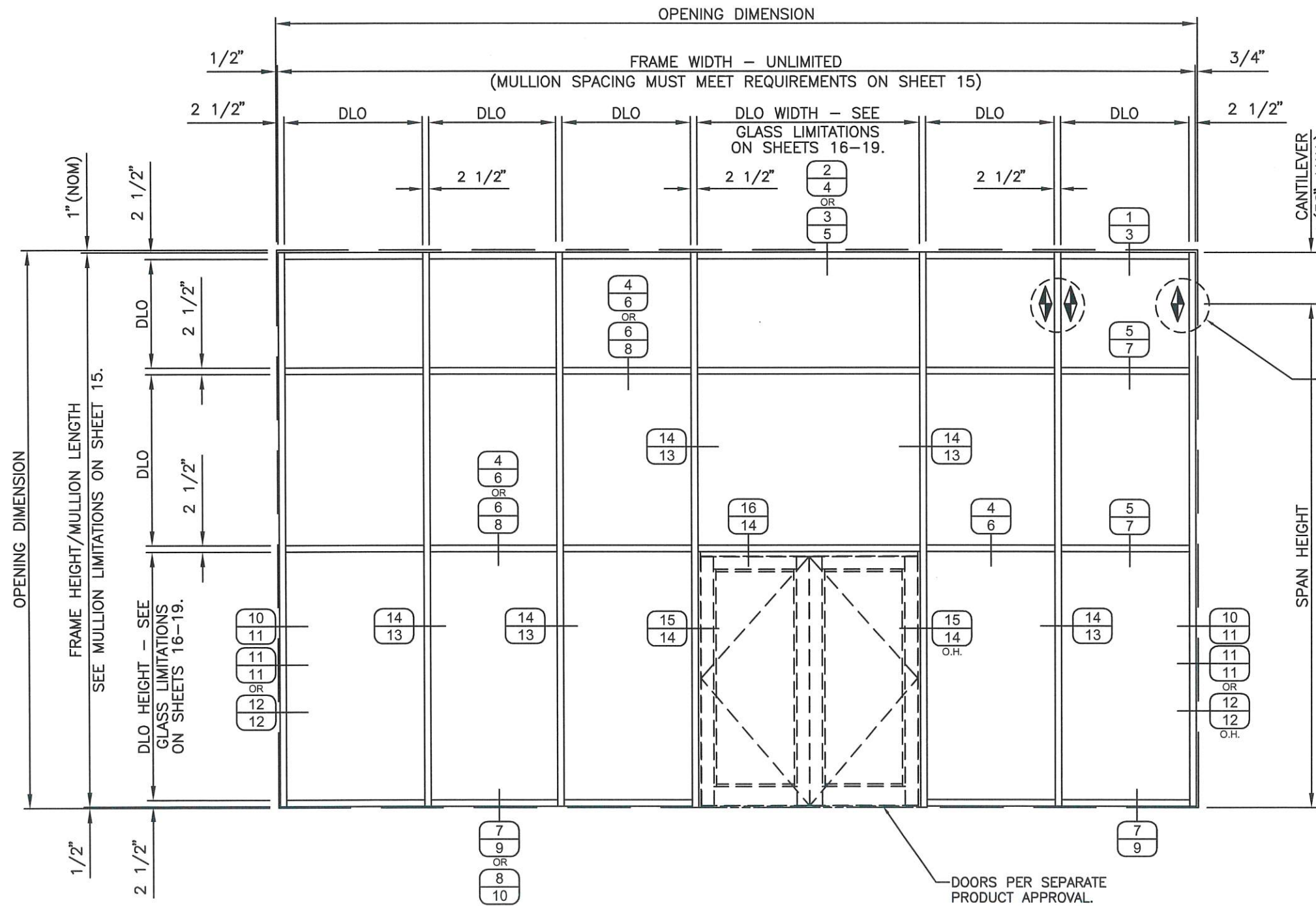
PRODUCT:
1600 WALL
10" SYSTEM 1

DWG:
1600-10-HVHZ

SECTION:
1

SHEET:
1/28

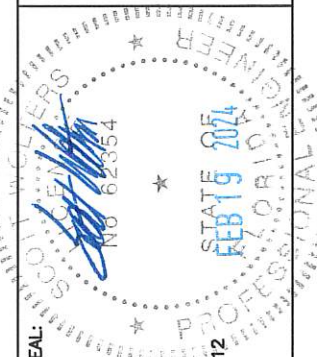
CURTAINWALL ELEVATION



**EXTERIOR VIEW
(NOT TO SCALE)**

OPTIONAL CLIP ANCHORS AT HEAD. SEE SHEETS 22-23.

AT SINGLE SPAN ELEVATIONS WITH A CANTILEVER, THE SPAN HEIGHT IS LIMITED TO THE MULLION HEIGHTS SHOWN IN THE CHART ON SHEET 15, AND THE CANTILEVER IS LIMITED TO 36" MAX.



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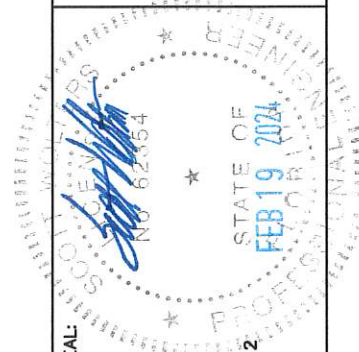
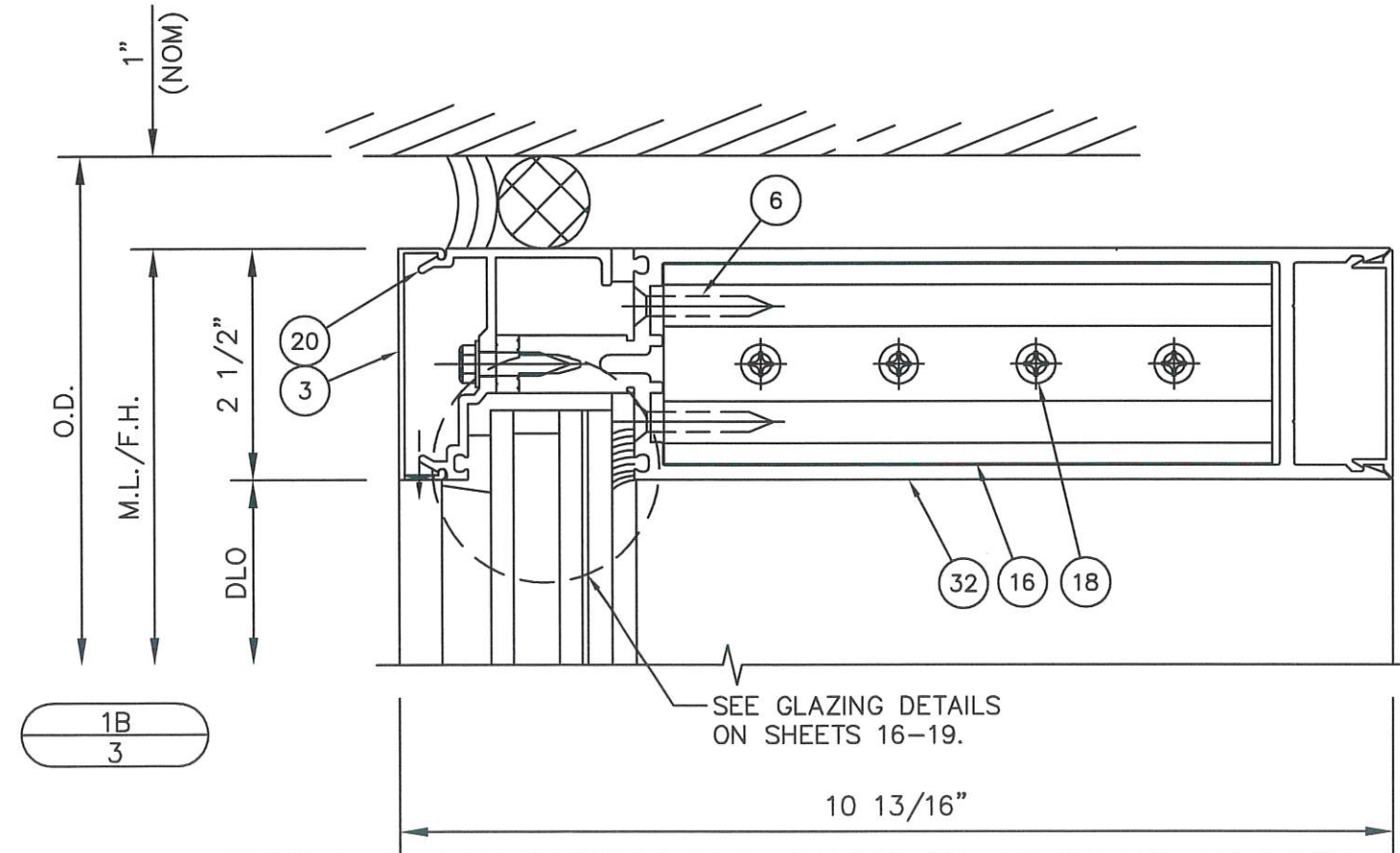
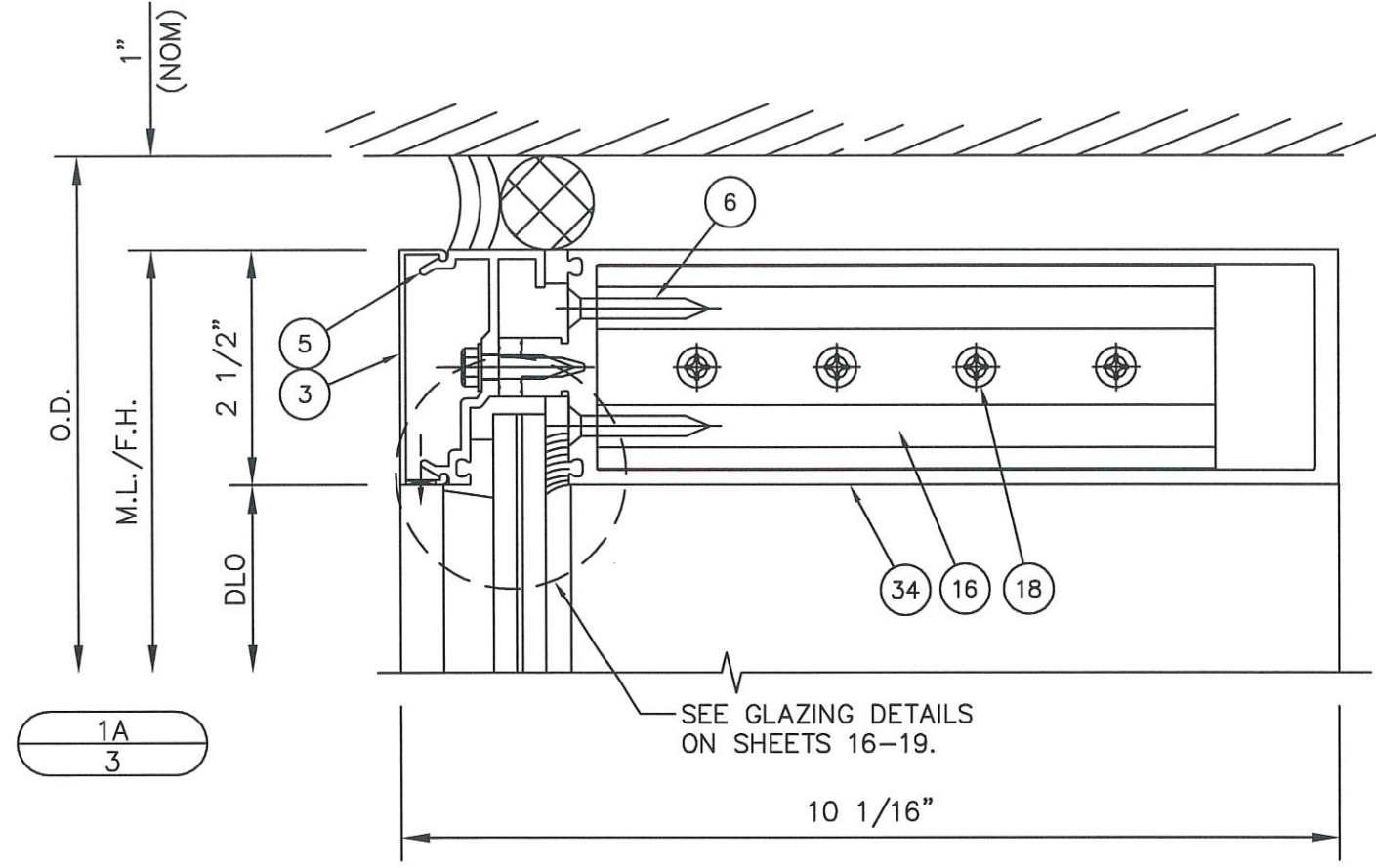


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HEAD DETAILS



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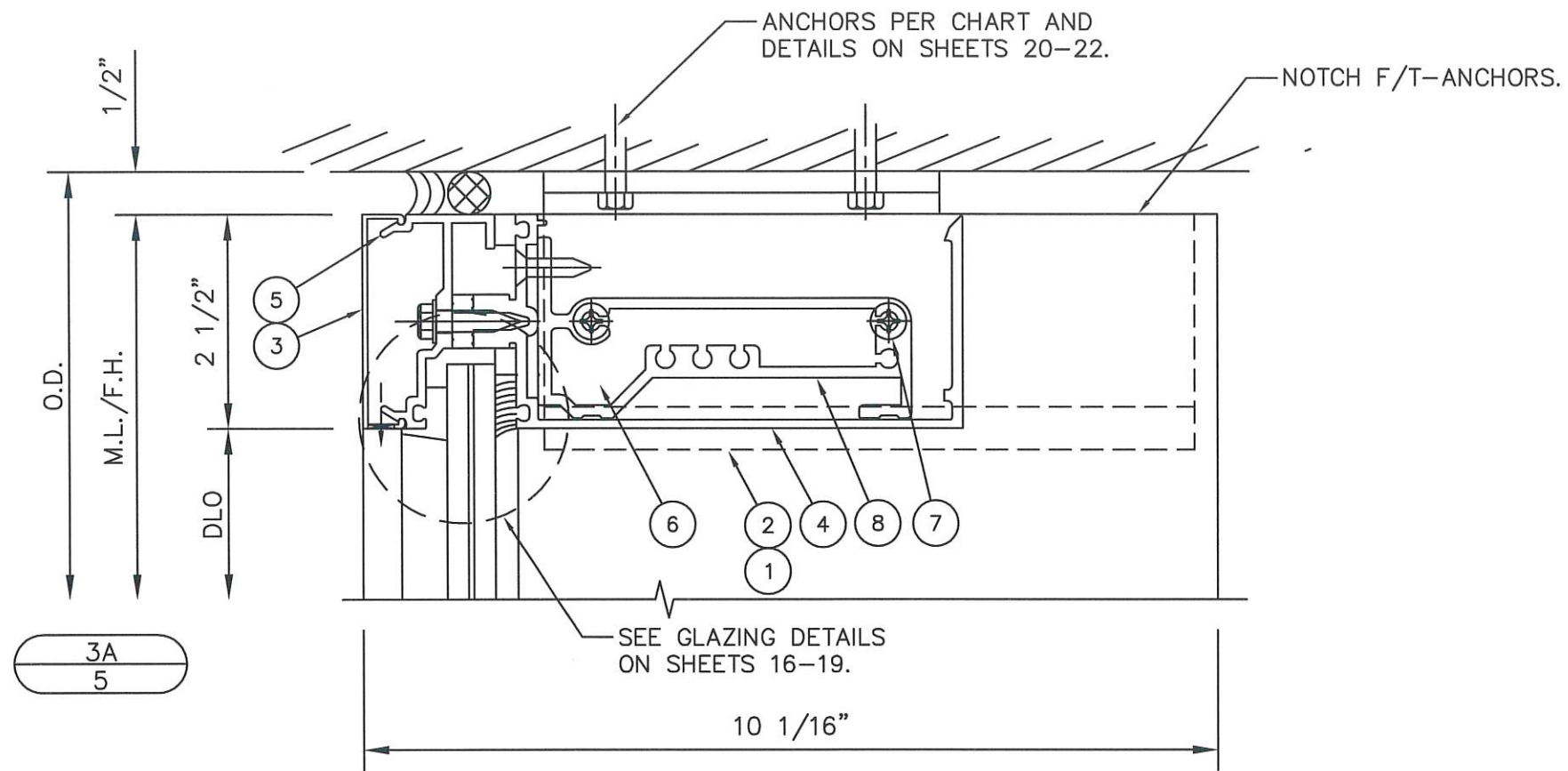
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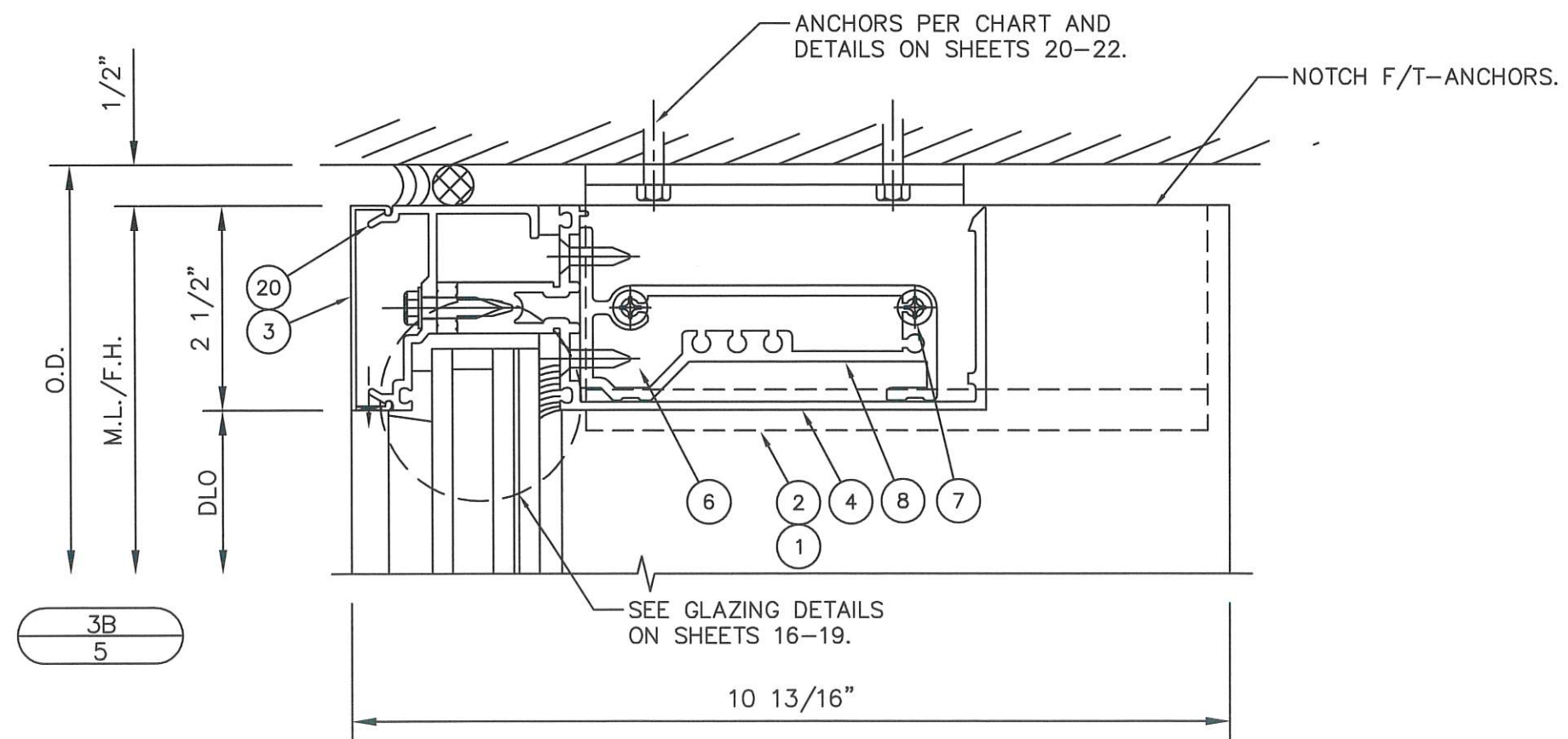
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HEAD DETAILS

OPTIONAL 7" HORIZONTALS



PLEASE NOTE - 7" HORIZONTALS ARE LIMITED TO +/- 90 PSF.



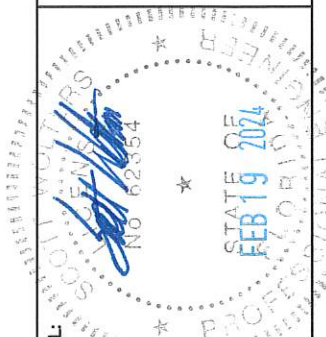
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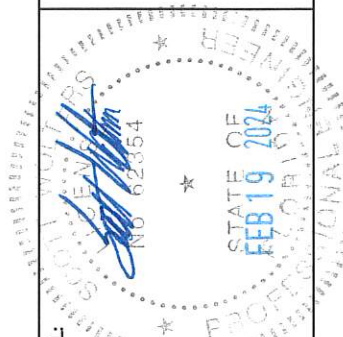
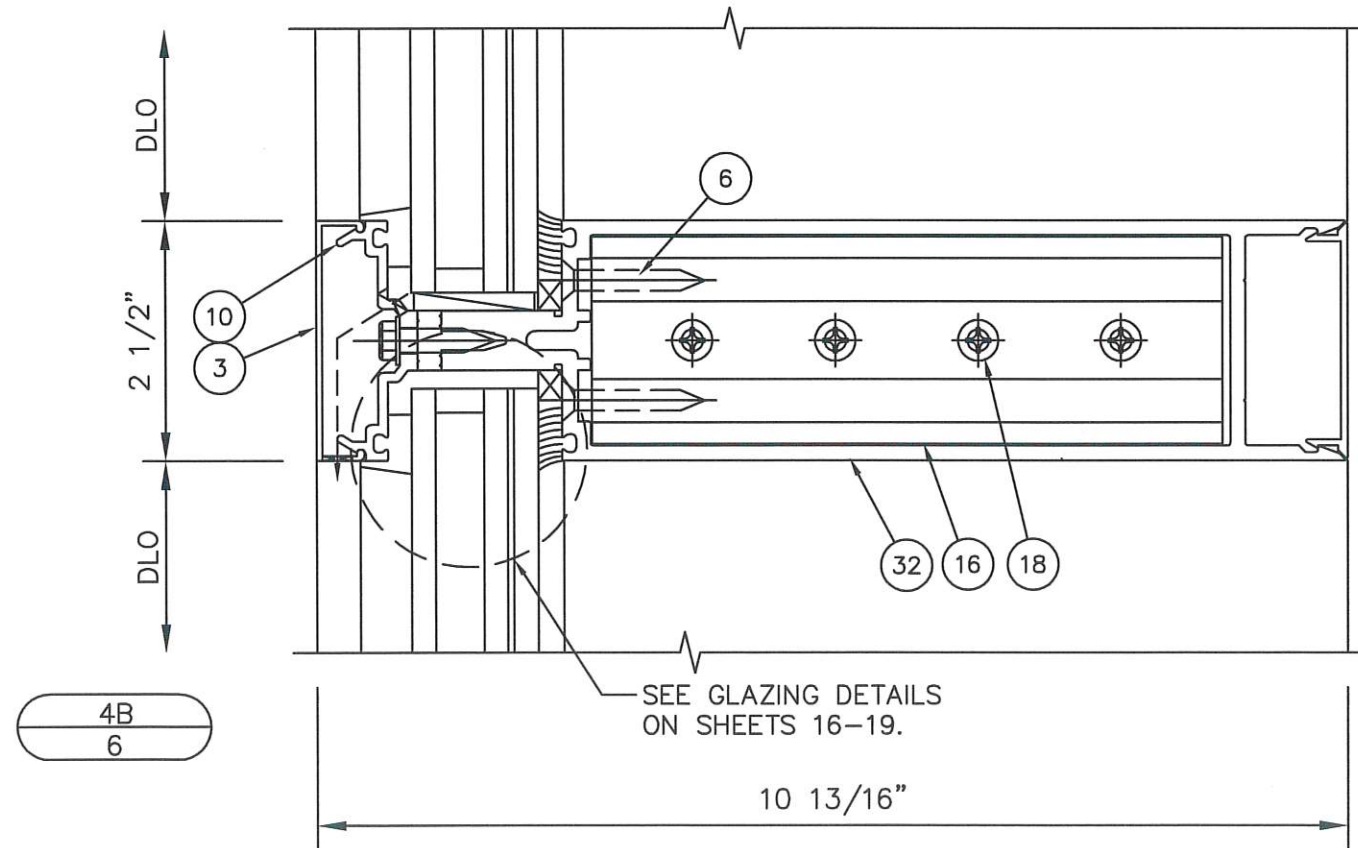
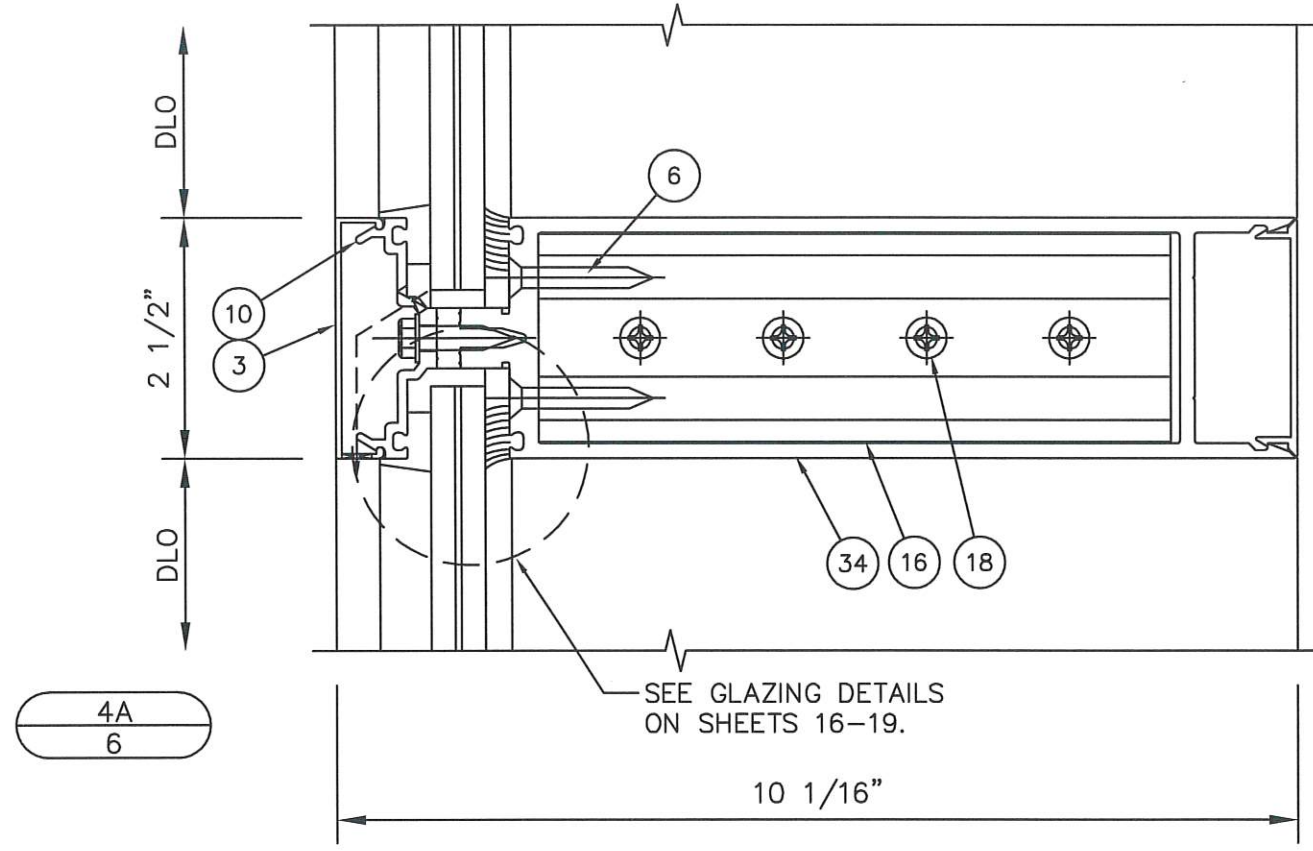
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HORIZONTAL DETAILS



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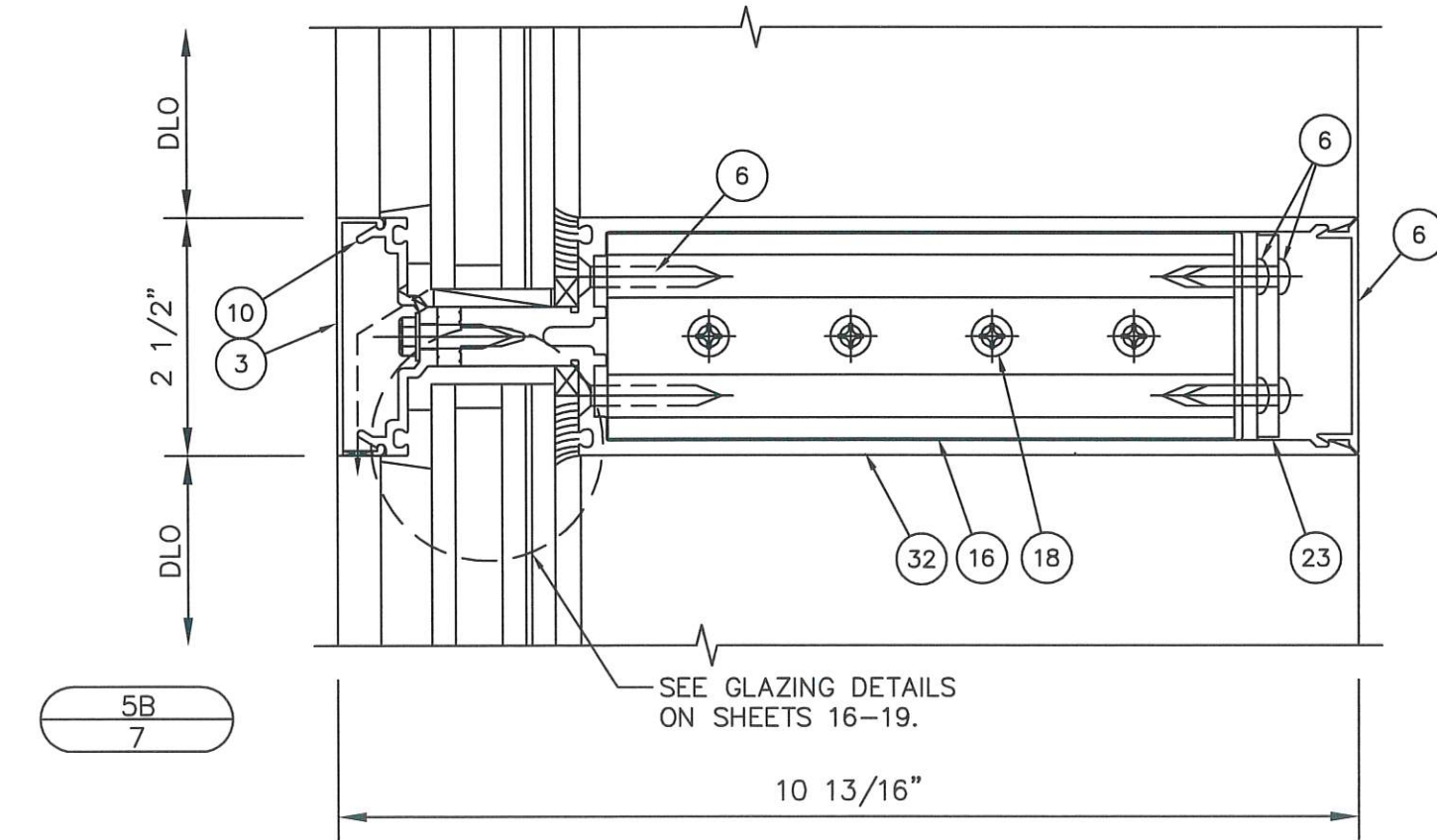
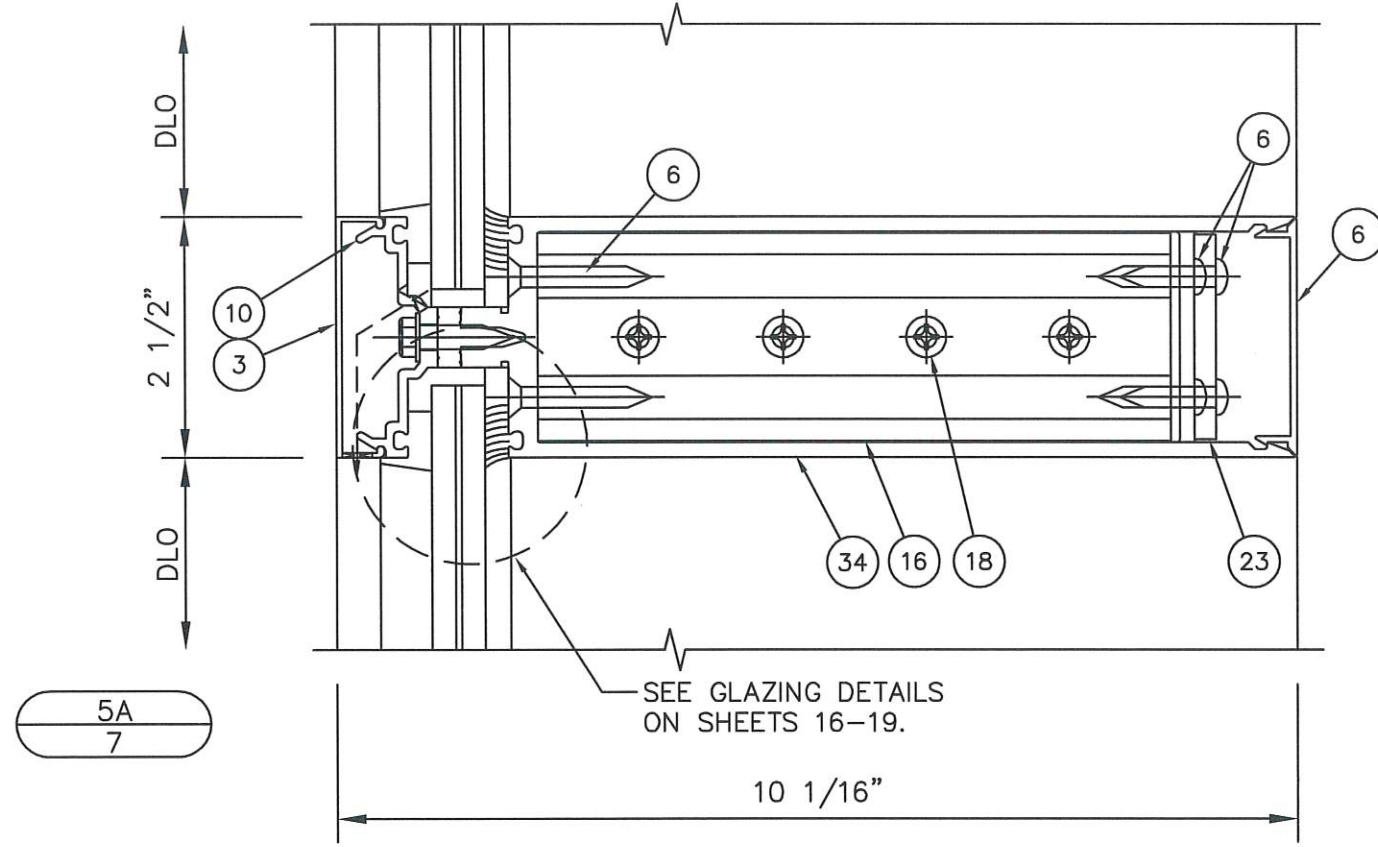
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HORIZONTAL DETAILS
LAST BAY HORIZONTALS

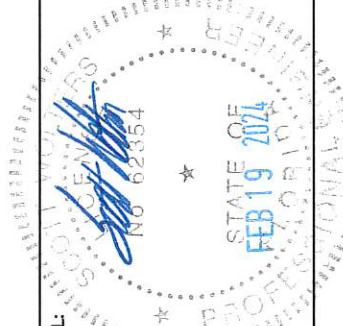


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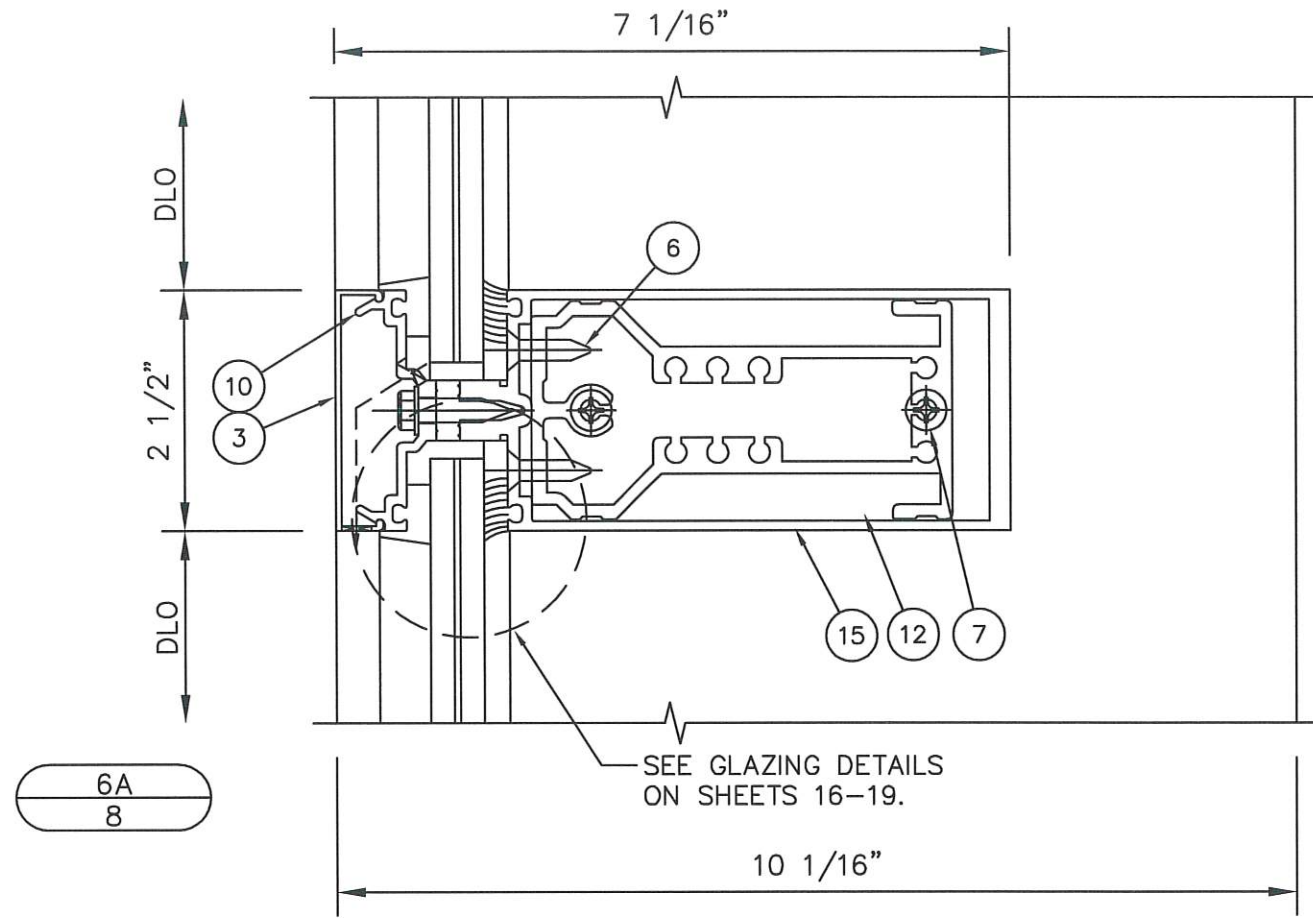


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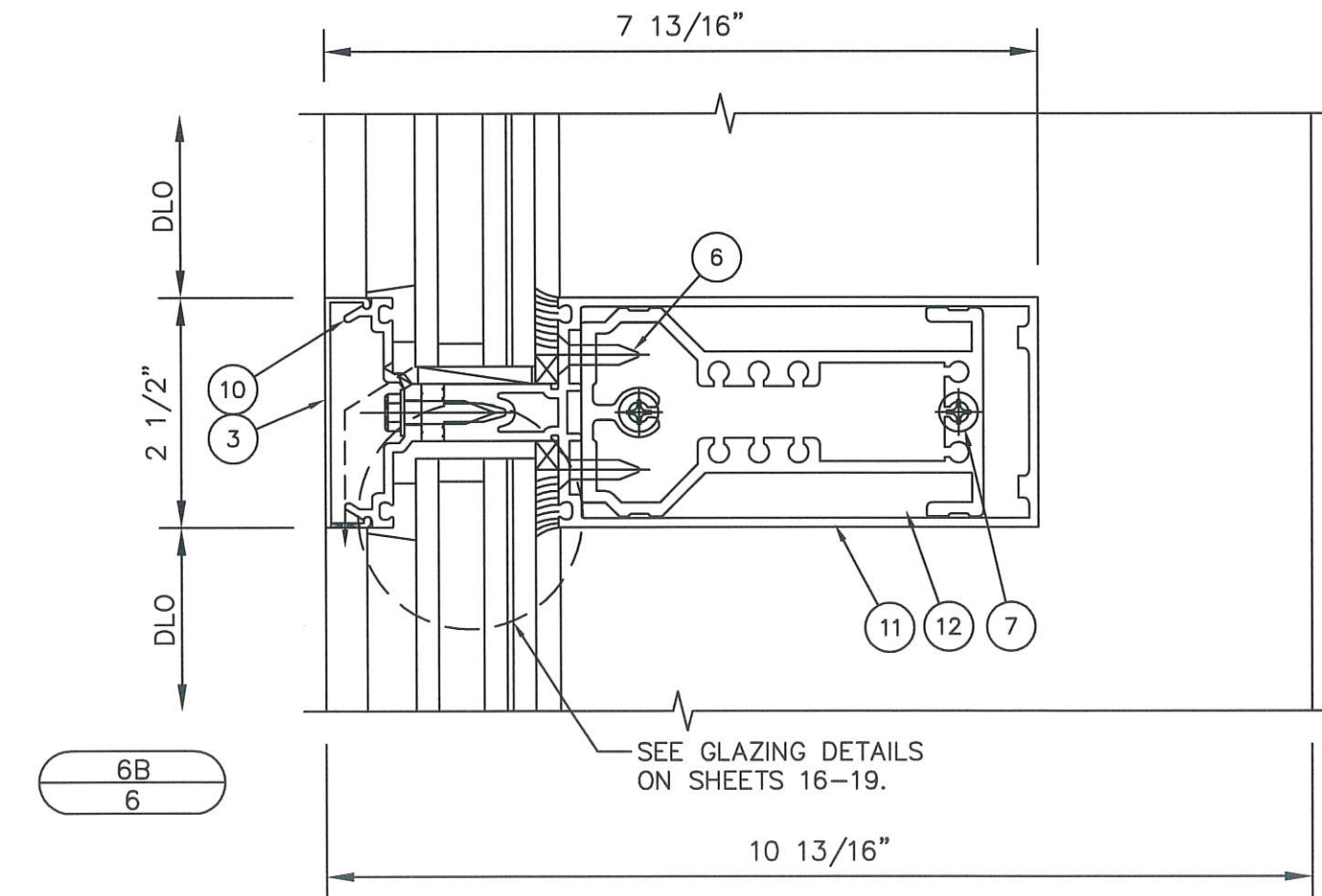
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SECTION:	3
SHEET:	7/28

HORIZONTAL DETAILS
OPTIONAL 7" HORIZONTALS



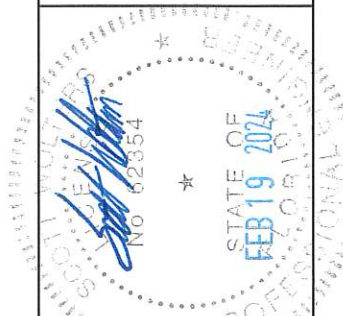
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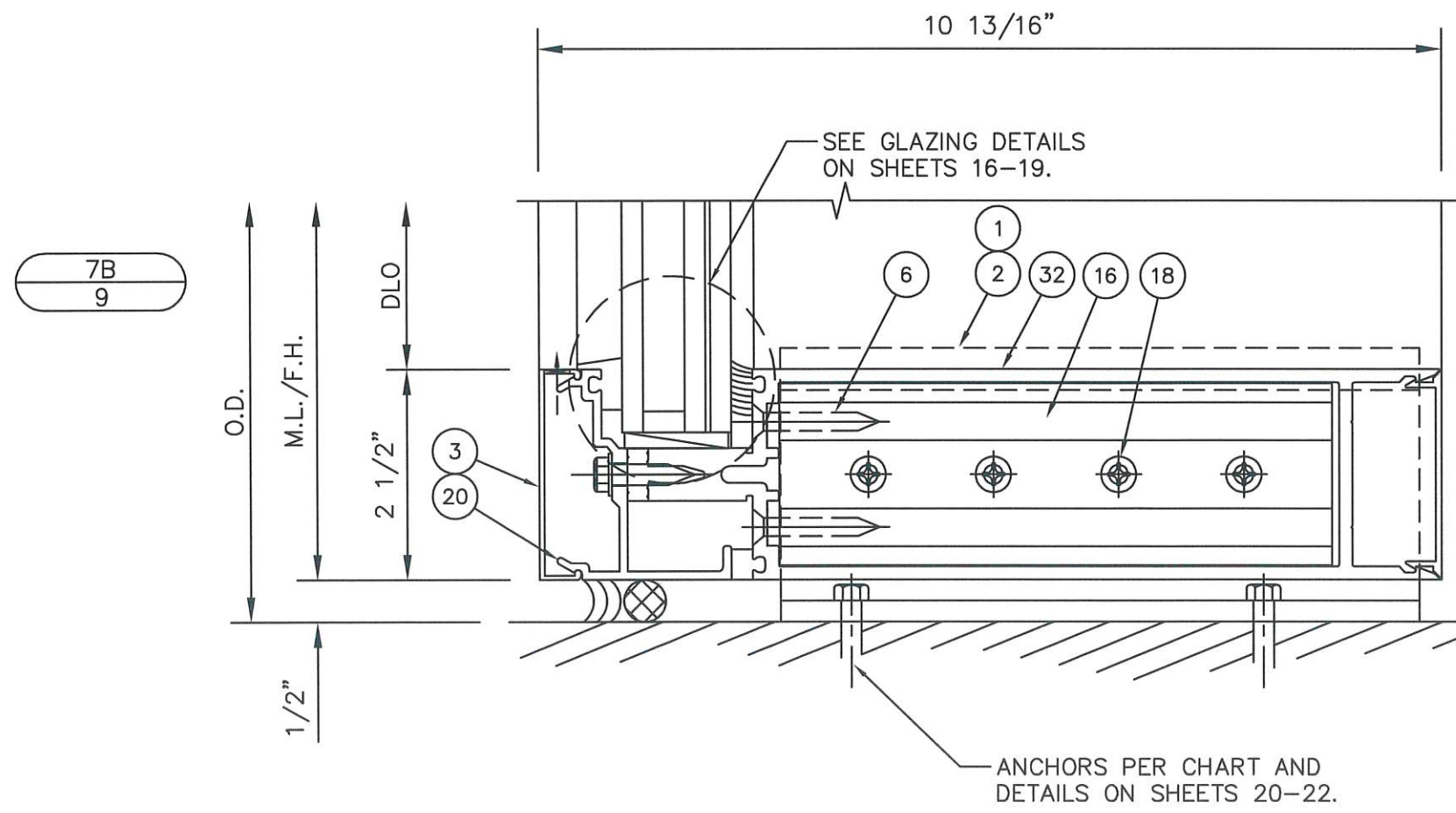
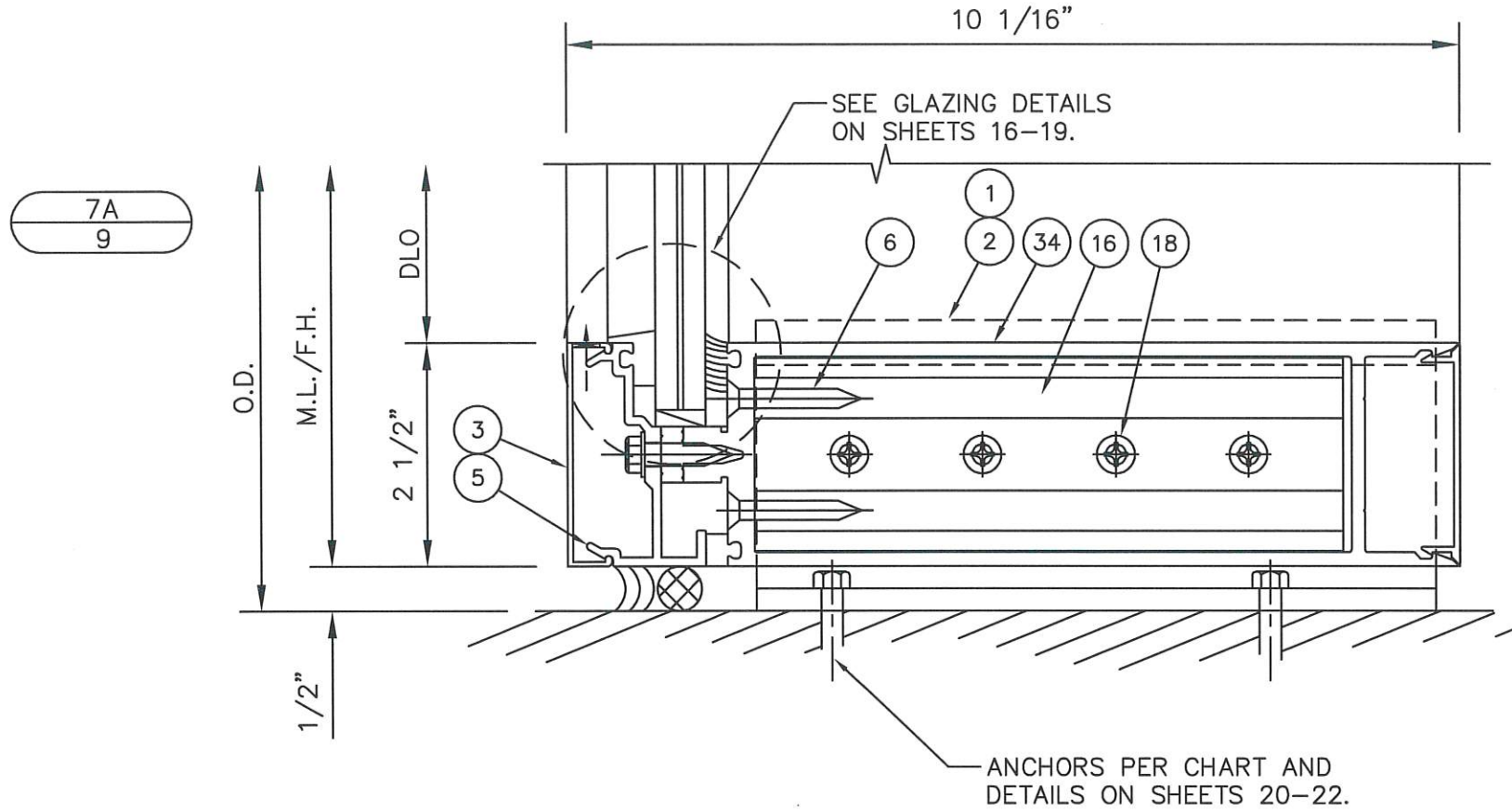
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SILL DETAILS



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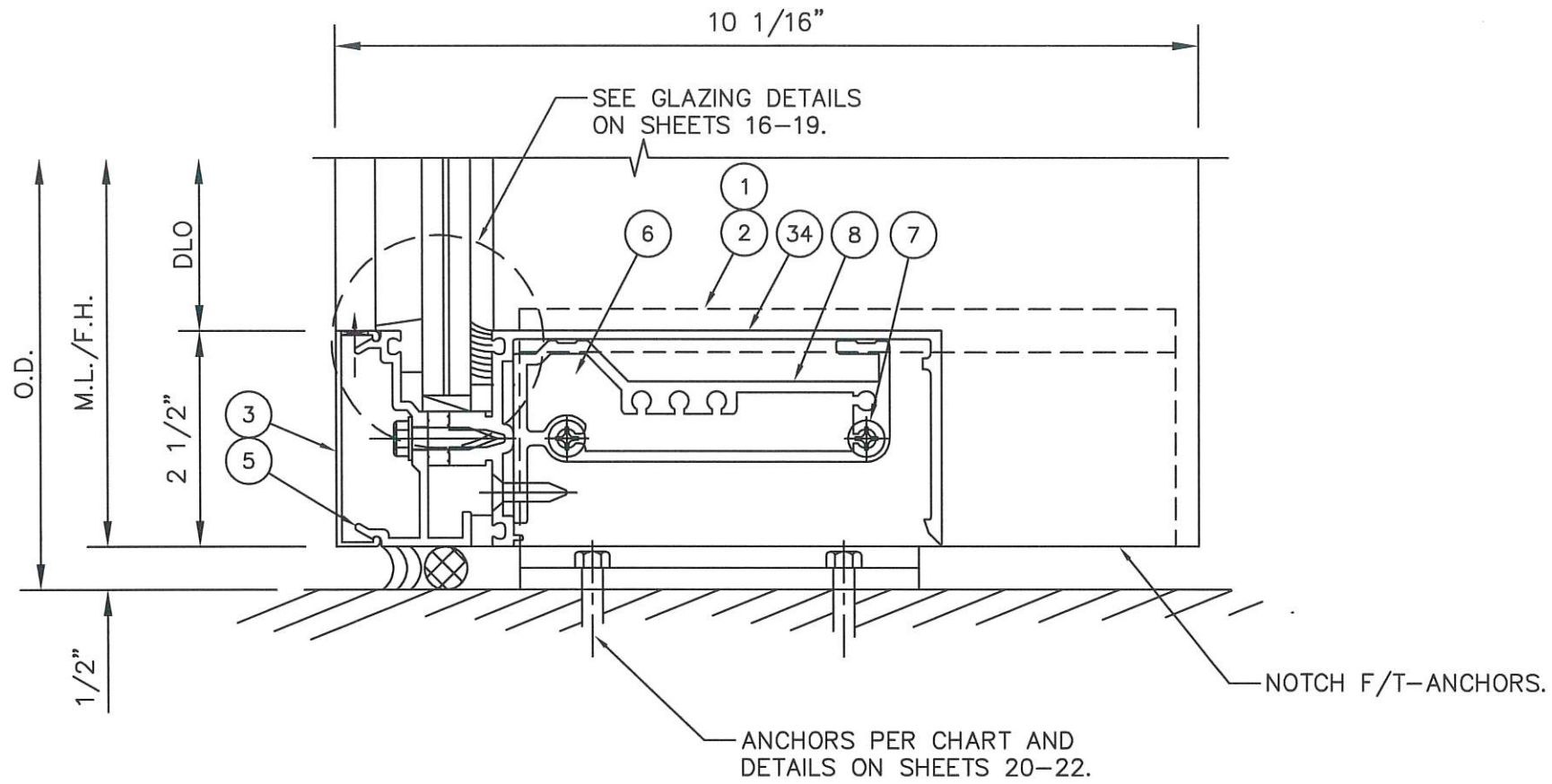
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PRODUCT: 1600 WALL 10" SYSTEM 1
 DWG: 1600-10-HVHZ
 SECTION: 3
 SHEET: 9/28

SILL DETAILS

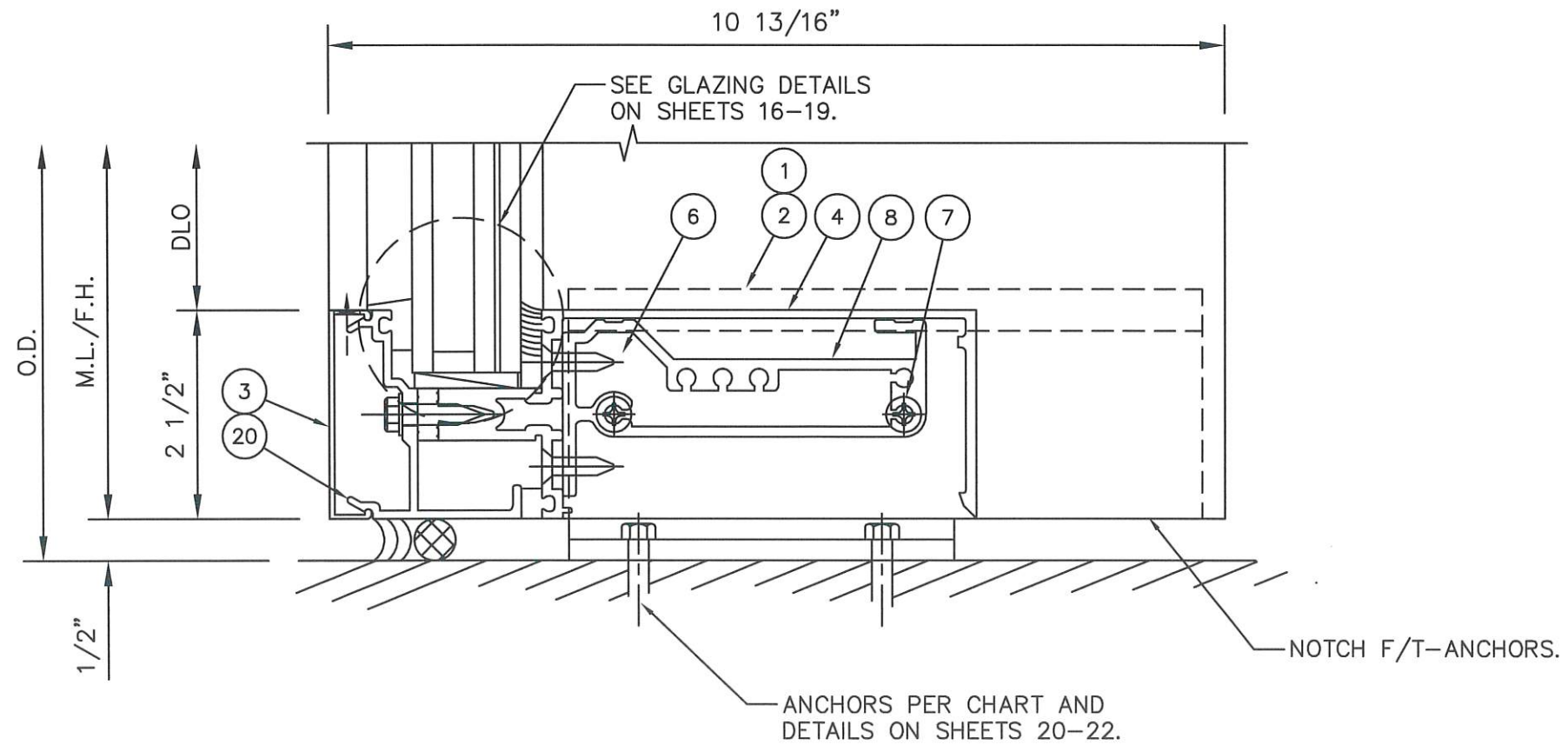
OPTIONAL 7" HORIZONTALS

8A
10



PLEASE NOTE - 7" HORIZONTALS ARE LIMITED TO +/- 90 PSF.

8B
10

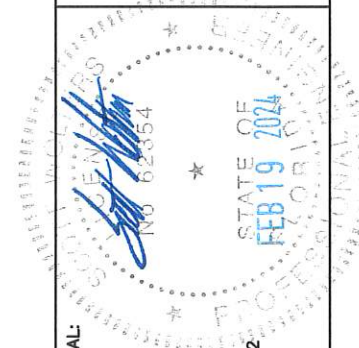


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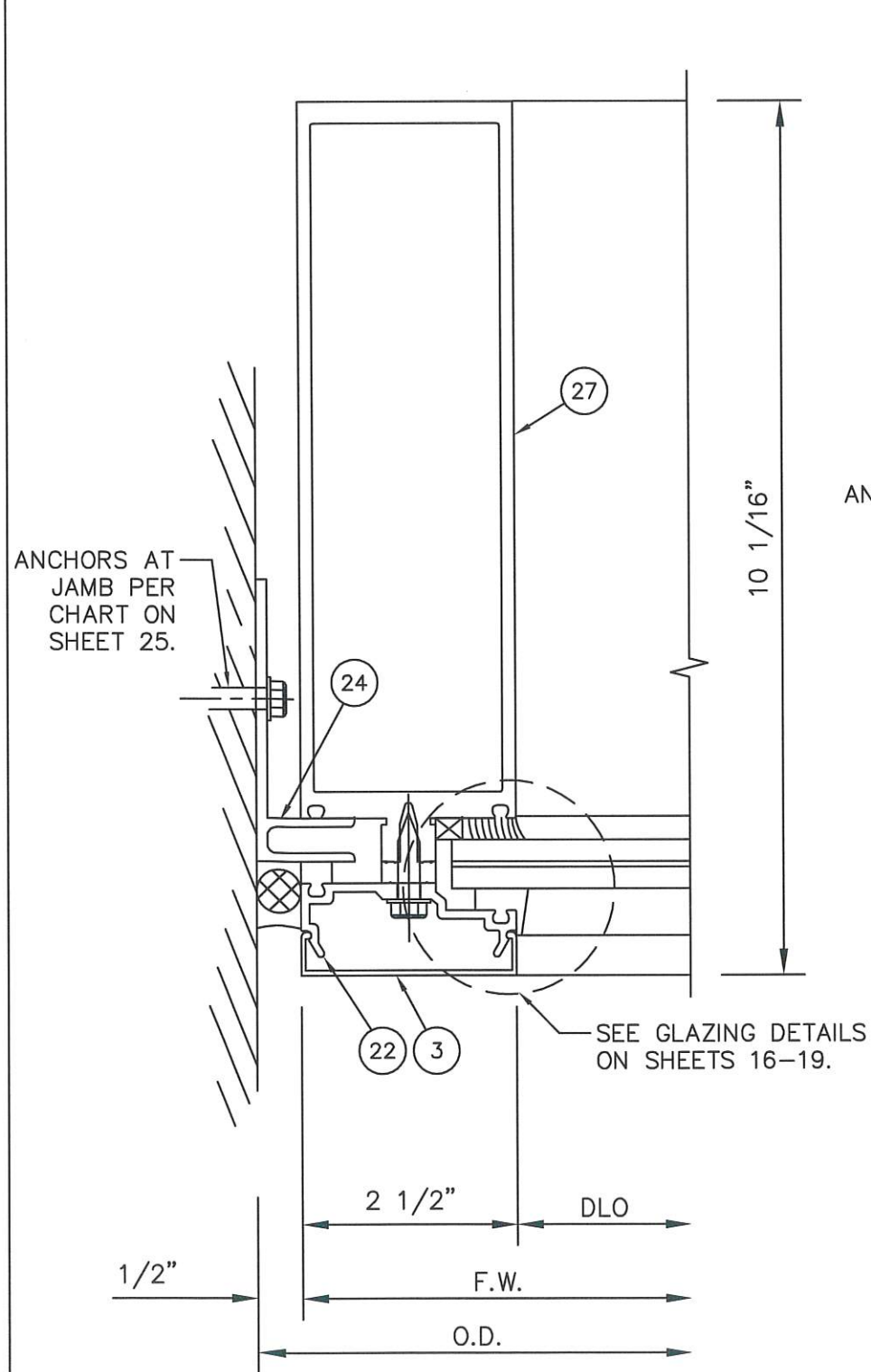
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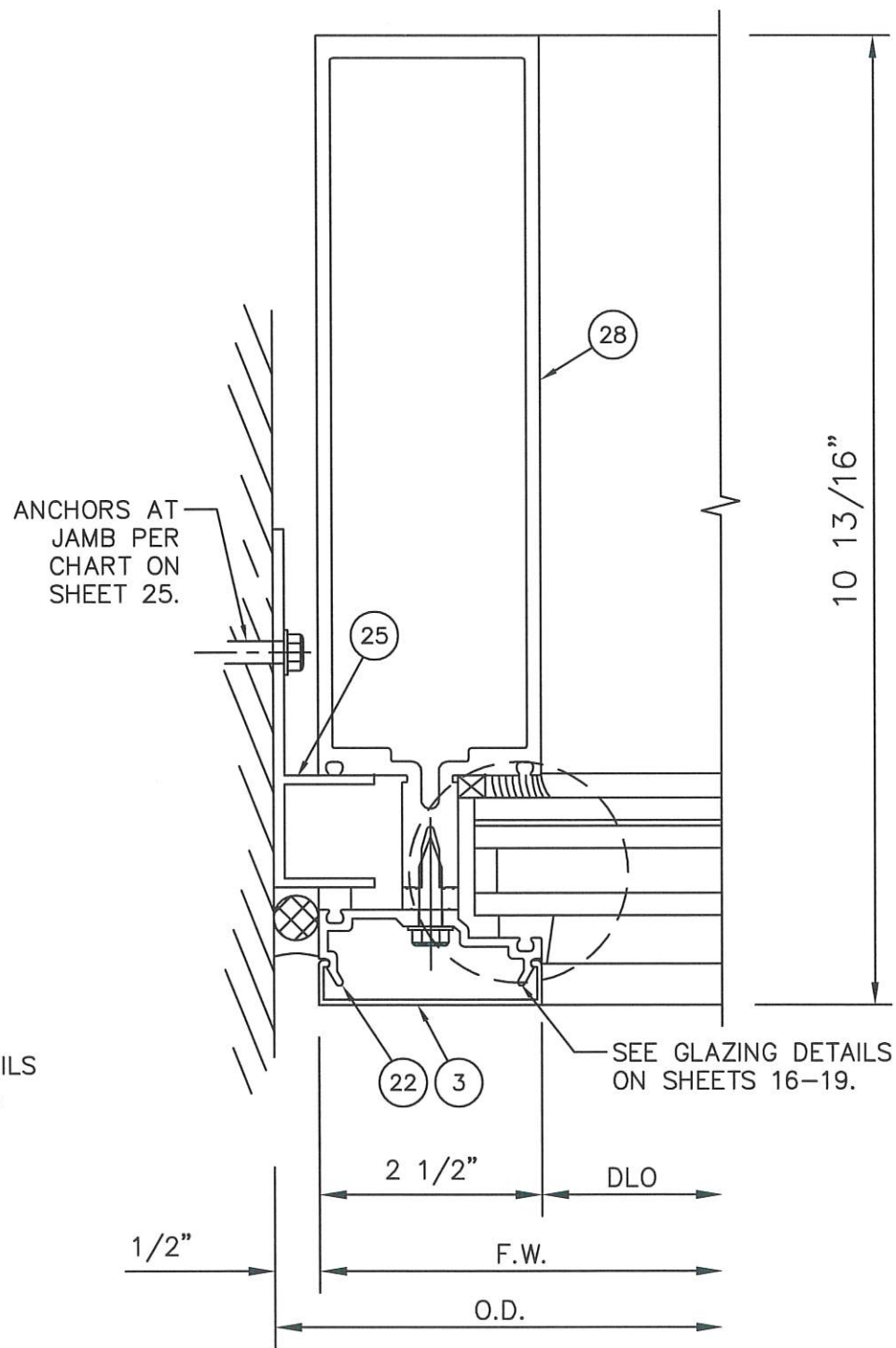
SECTION:
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SHEET:
10/28

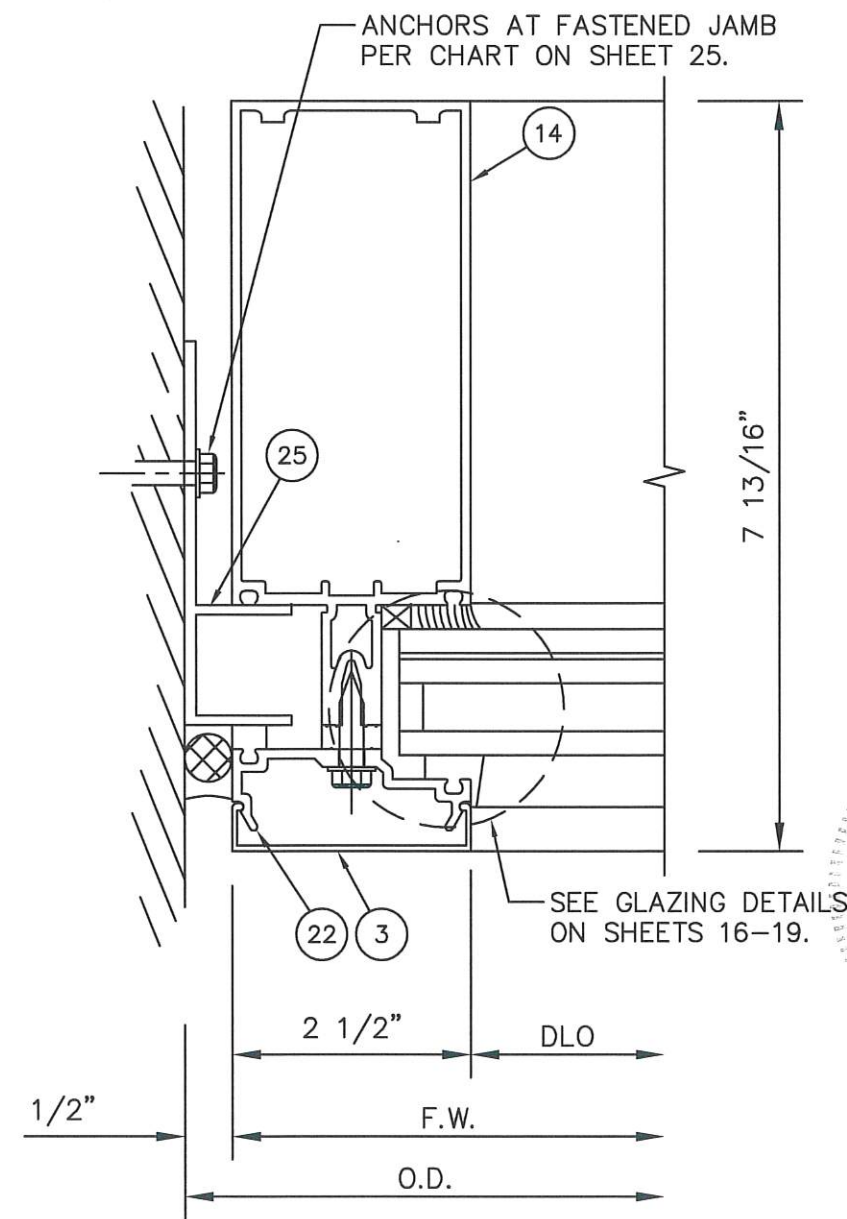
FASTENED JAMB DETAILS



10A
11



10B
11



11B
11

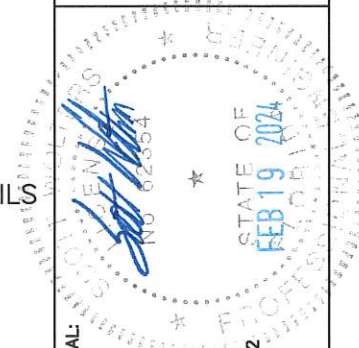
OPTIONAL 7" JAMB AND HORIZONTALS

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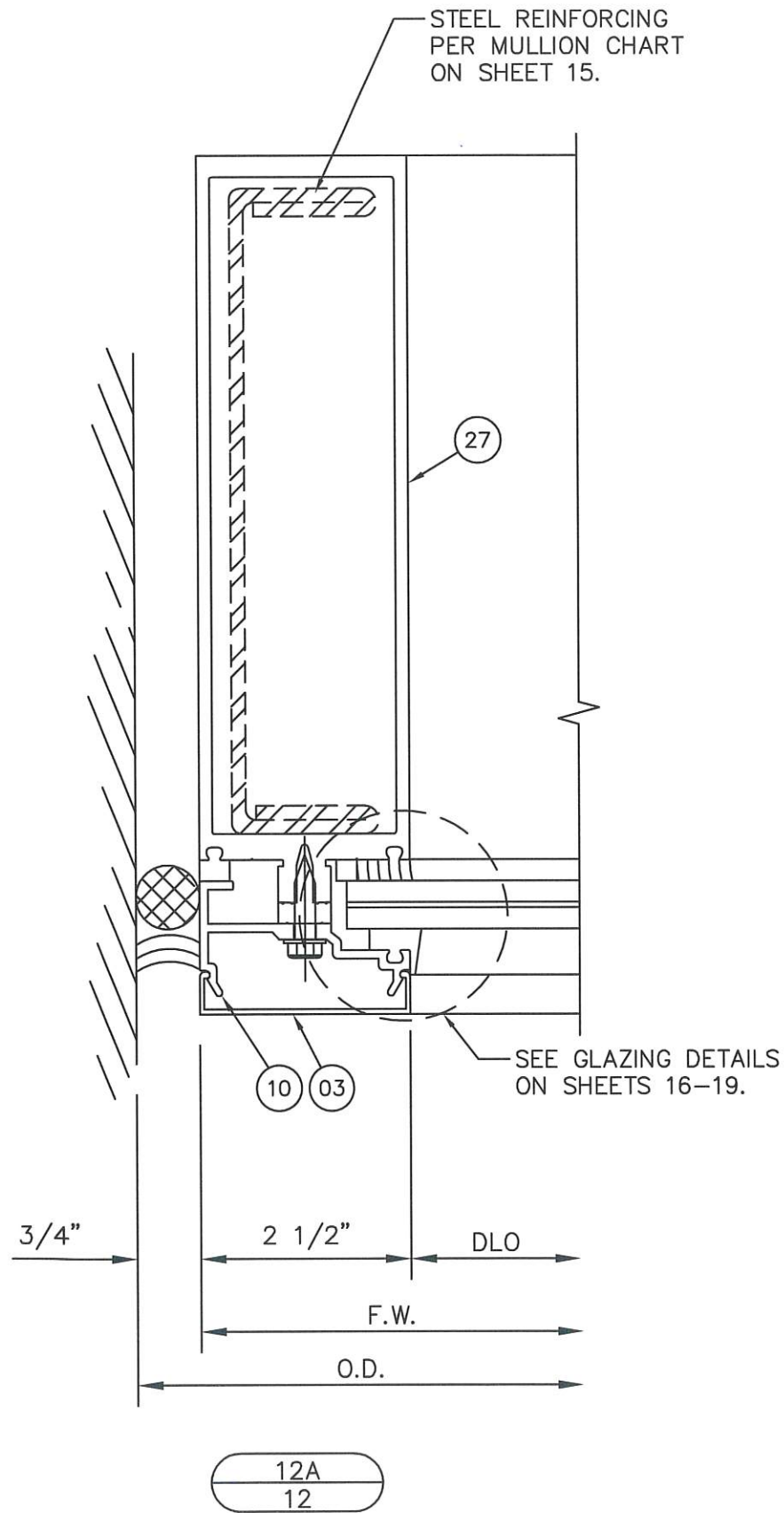
PRODUCT: 1600 WALL
10" SYSTEM 1

DWG: 1600-10-HVHZ

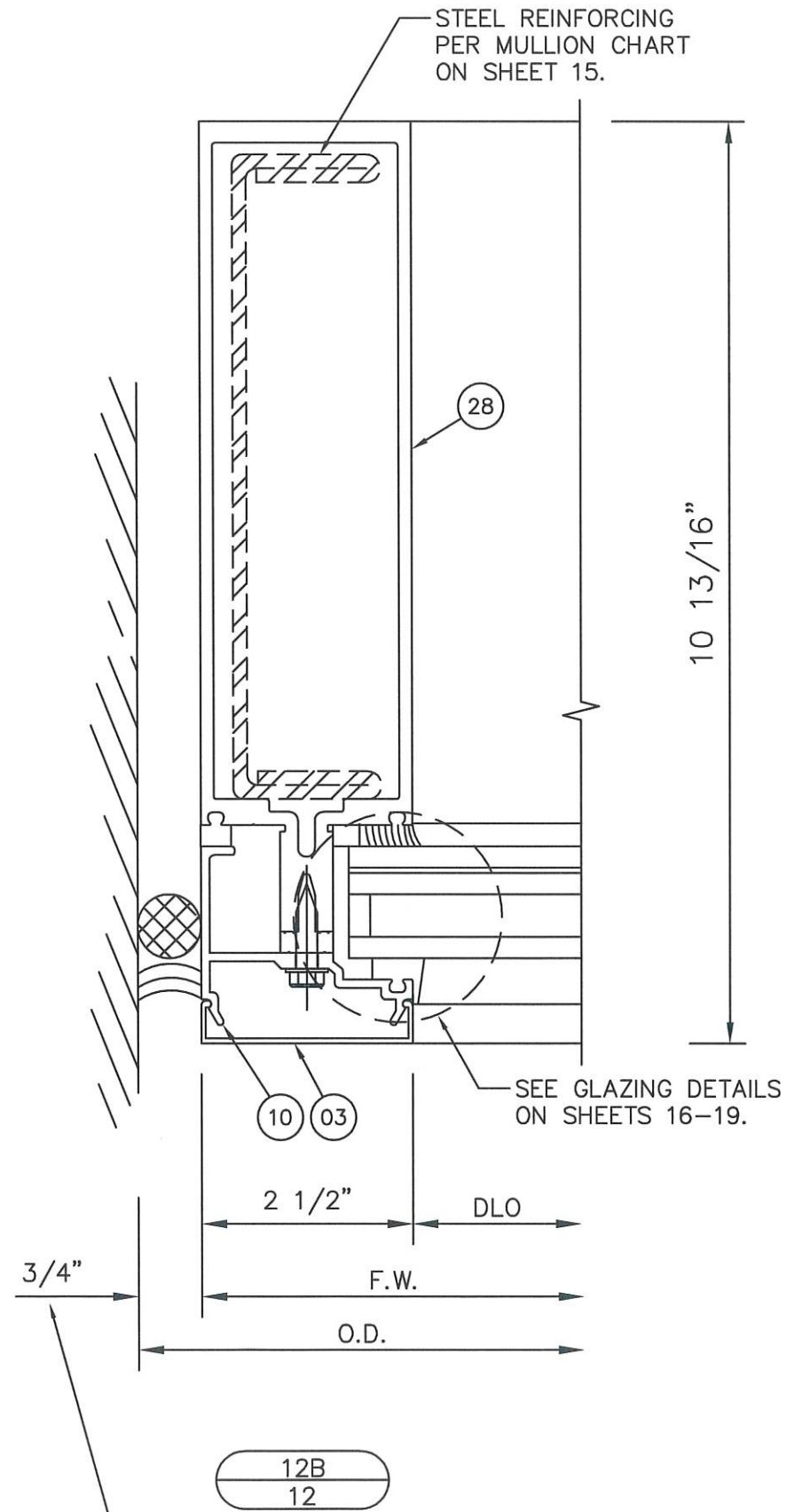
SECTION: 3

SHEET: 11/28

FREE JAMB DETAILS



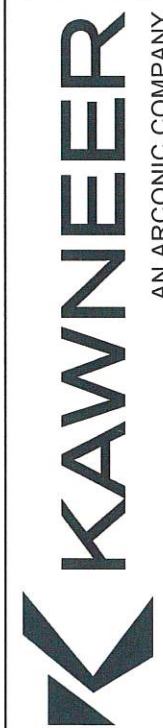
12A
12



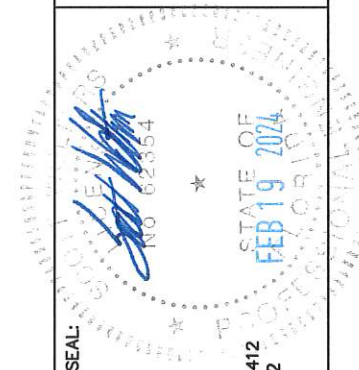
12B
12

NOMINAL DIMENSION. PERIMETER SEALANT WIDTH MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND ASTM C1472.

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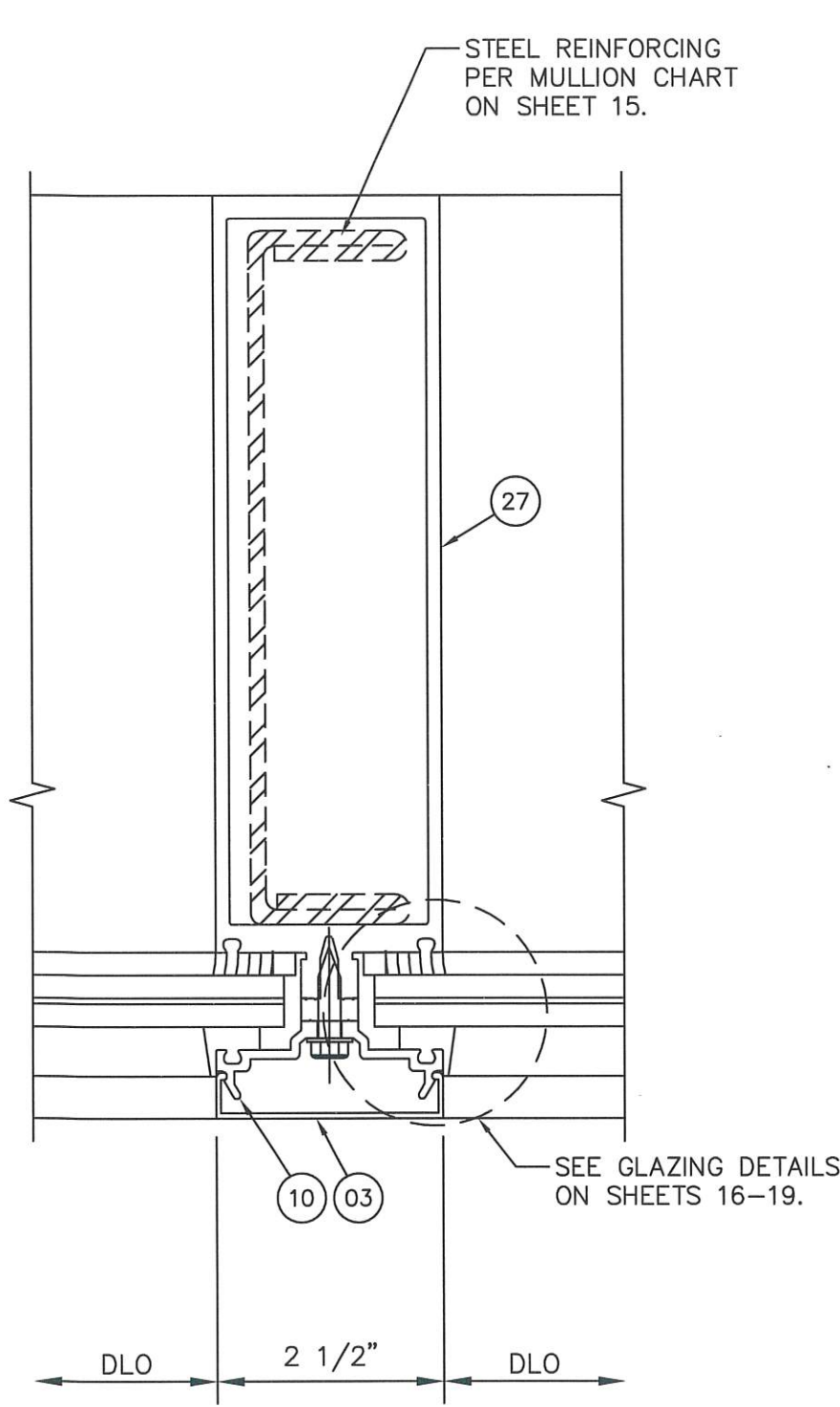
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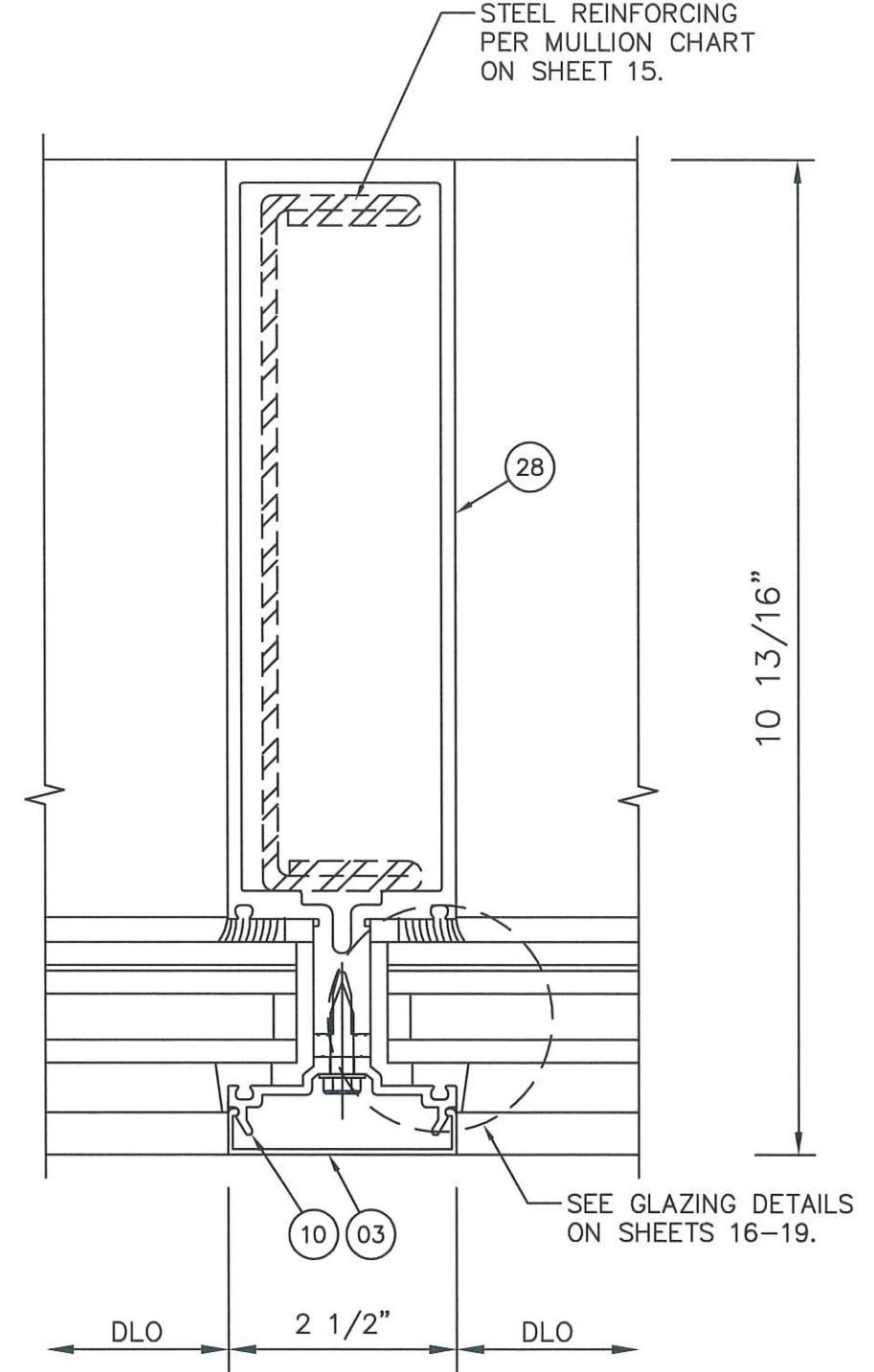
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MULLION DETAILS



14A
13

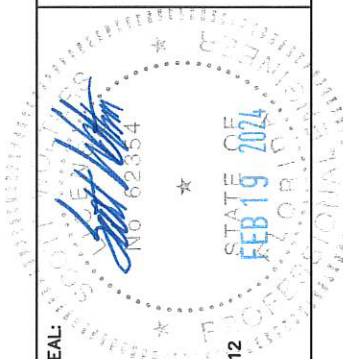


14B
13

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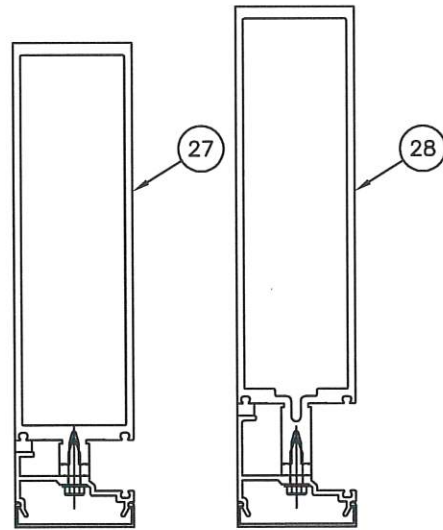
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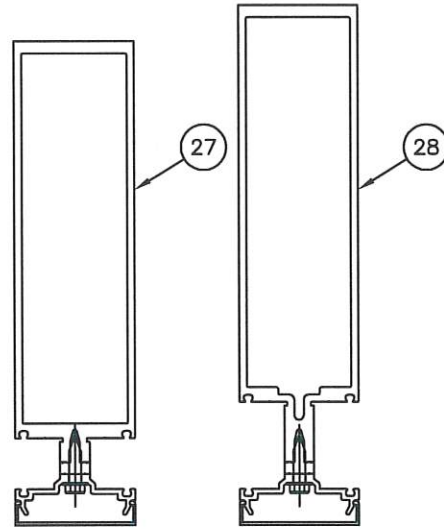
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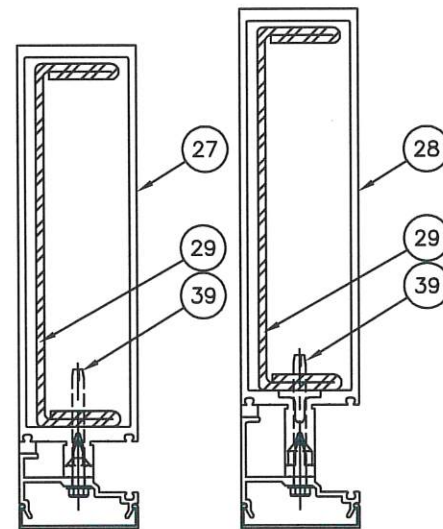
VERTICAL MULLION LIMITATIONS



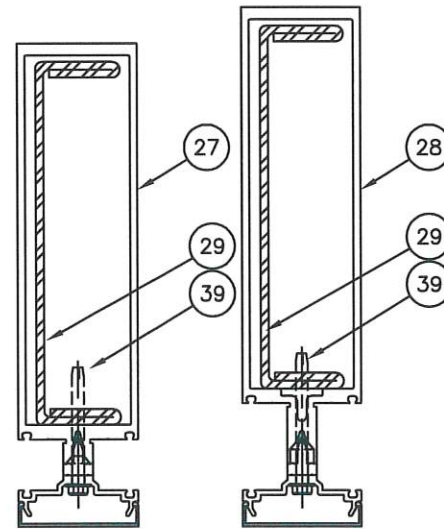
JAMB J1



MULLION M1

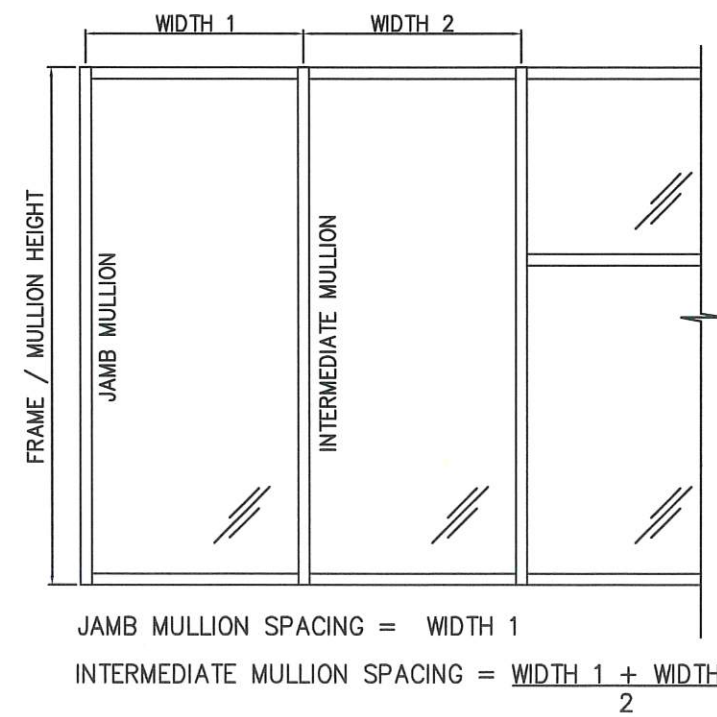


JAMB J2

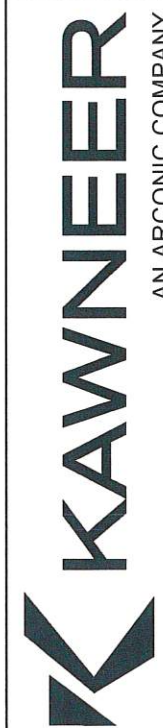


MULLION M2

		MAX. DESIGN PRESSURE (psf)			
		JAMBS		MULLIONS	
HEIGHT (in)	WIDTH (in)	J1 (+/-)	J2 (+/-)	M1 (+/-)	M2 (+/-)
150	62 1/2	110	110	110	110
	72	-	110	-	110
	81 3/8	-	110	-	110
	92	-	110	-	90
	100 1/4	-	110	-	-
168	82 3/4	-	-	-	90
186	74 1/2	-	-	-	90
203	68 5/8	-	-	-	90



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DWG: 1600-10-HVHZ
SECTION: 4
SHEET: 15/28

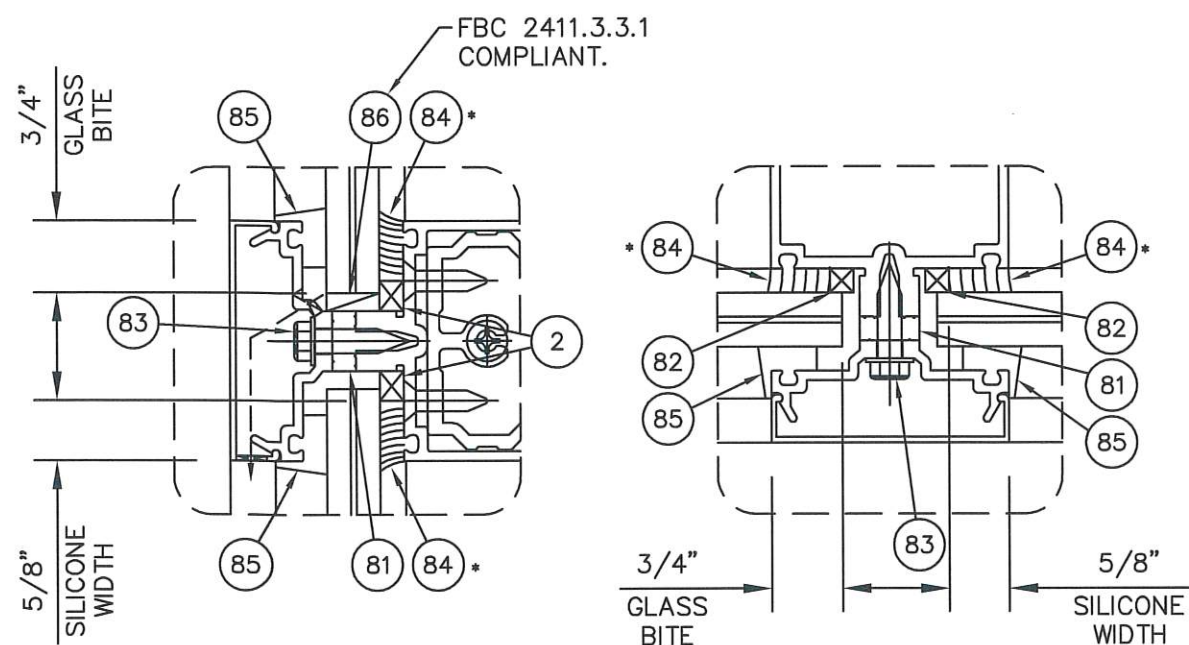
LARGE AND SMALL MISSILE GLAZING CAPTURED VERTICALS

GLASS TYPE 1 - 1/4" HEAT STRENGTHENED
0.090" SAFLEX PVB INTERLAYER
1/4" HEAT STRENGTHENED

GLASS TYPE 2 - 1/4" HEAT STRENGTHENED
0.090" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED

GLASS TYPE 3 - 1/4" HEAT STRENGTHENED
0.100" SAFLEX HP INTERLAYER
1/4" HEAT STRENGTHENED

GLASS TYPE 4 - 1/4" HEAT STRENGTHENED
0.090" KURARAY SENTRYGLAS
1/4" HEAT STRENGTHENED



*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATING GLASS UNIT MANUFACTURER.

SEE SHEET 26 FOR GLAZING MATERIALS

GLASS CHART

GLASS TYPES 1 & 2 (LM/SMI)												
TESTED DLO'S = 58 1/2"x93 1/2" (65 psf), 57 3/4"x94 3/4" (65 psf), 73 3/4"x54 5/8" (65 psf)												
ALLOWABLE DESIGN PRESSURE (psf)												
DLO HEIGHT (in)	DLO WIDTH (in)											
	38	39	42	45	48	52	57 3/4	66	72	78	84	93 1/2
58 1/2	65	65	65	65	65	65	65	65	65	65	65	65
65	65	65	65	65	65	65	65	65	65	65	65	-
70	65	65	65	65	65	65	65	65	65	65	-	-
76	65	65	65	65	65	65	65	65	65	-	-	-
82	65	65	65	65	65	65	65	65	-	-	-	-
94 3/4	65	65	65	65	65	65	65	-	-	-	-	-
105	65	65	65	65	65	65	-	-	-	-	-	-
114	65	65	65	65	65	-	-	-	-	-	-	-
120	65	65	65	65	-	-	-	-	-	-	-	-
130	65	65	65	-	-	-	-	-	-	-	-	-
138	65	65	-	-	-	-	-	-	-	-	-	-
144	65	-	-	-	-	-	-	-	-	-	-	-

GLASS TYPE 3 (LM/SMI)												
TESTED DLO'S = 58 1/2"x93 1/2" (90 psf), 57 3/4"x94 3/4" (90 psf), 73 3/4"x54 5/8" (90 psf)												
ALLOWABLE DESIGN PRESSURE (psf)												
DLO HEIGHT (in)	DLO WIDTH (in)											
	38	39	42	45	48	52	57 3/4	66	72	78	84	93 1/2
58 1/2	90	90	90	90	90	90	90	90	90	90	90	90
65	90	90	90	90	90	90	90	90	90	90	90	-
70	90	90	90	90	90	90	90	90	90	90	-	-
76	90	90	90	90	90	90	90	90	90	-	-	-
82	90	90	90	90	90	90	90	90	-	-	-	-
94 3/4	90	90	90	90	90	90	90	-	-	-	-	-
105	90	90	90	90	90	90	-	-	-	-	-	-
114	90	90	90	90	90	-	-	-	-	-	-	-
120	90	90	90	90	-	-	-	-	-	-	-	-
130	90	90	90	-	-	-	-	-	-	-	-	-
138	90	90	-	-	-	-	-	-	-	-	-	-
144	90	-	-	-	-	-	-	-	-	-	-	-

GLASS TYPE 4 (LM/SMI)												
TESTED DLO'S = 58 1/2"x93 1/2" (90 psf), 57 3/4"x94 3/4" (90 psf), 73 3/4"x54 5/8" (90 psf), 70 1/2"x94 1/2" (+70/-90 psf)												
ALLOWABLE DESIGN PRESSURE (psf)												
DLO HEIGHT (in)	DLO WIDTH (in)											
	38	39	42	45	48	52	57 3/4	66	72	78	84	93 1/2
58 1/2	90	90	90	90	90	90	90	90	90	90	90	90
65	90	90	90	90	90	90	90	90	90	90	90	+70/-90
70	90	90	90	90	90	90	90	90	90	90	+70/-90	+70/-90
76	90	90	90	90	90	90	90	90	90	+70/-90	+70/-90	-
79	90	90	90	90	90	90	90	90	90	+70/-90	+70/-90	-
82	90	90	90	90	90	90	90	90	+70/-90	+70/-90	-	-
92 1/2	90	90	90	90	90	90	90	+70/-90	+70/-90	-	-	-
94 3/4	90	90	90	90	90	90	90	+70/-90	-	-	-	-
100	90	90	90	90	90	90	+70/-90	+70/-90	-	-	-	-
105	90	90	90	90	90	90	+70/-90	-	-	-	-	-
114	90	90	90	90	90	+70/-90	+70/-90	-	-	-	-	-
120	90	90	90	90	+70/-90	+70/-90	-	-	-	-	-	-
128	90	90	90	+70/-90	+70/-90	+70/-90	-	-	-	-	-	-
130	90	90	90	+70/-90	+70/-90	-	-	-	-	-	-	-
138	90	90	+70/-90	+70/-90	+70/-90	-	-	-	-	-	-	-
144	90	+70/-90	+70/-90	+70/-90	-	-	-	-	-	-	-	-

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NORCROSS, GA 30092



SEAL:
SCOTT WALTERS
FL PE# 62354
WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

PRODUCT:
**1600 WALL
10" SYSTEM 1**
DWG:
1600-10-HVHZ
SECTION:
5
SHEET:
16/28

REV #	DATE
10/15/23	
10/19/20	
2023 CODE UPDATE	
1ST SUBMITTAL	
PRINTS ISSUED FOR	

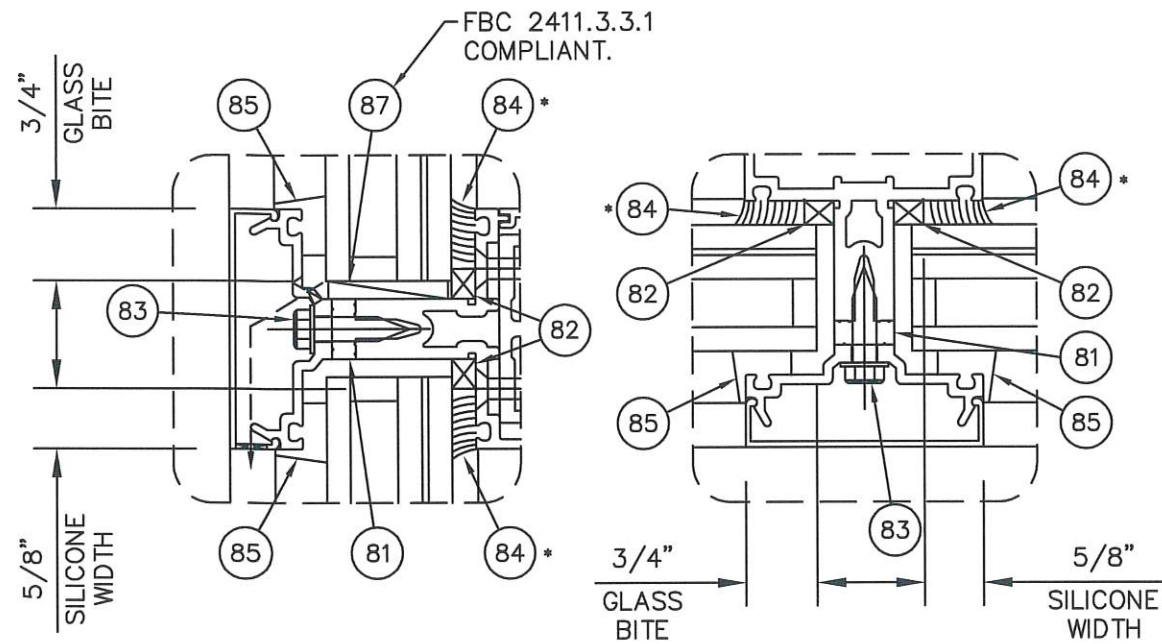
LARGE AND SMALL MISSILE GLAZING

GLASS TYPE 5 - 1/4" H.S. or TEMPERED
 1/2" AIR SPACE (ALUM SPACER)
 1/4" HEAT STRENGTHENED
 0.090" SAFLEX PVB INTERLAYER
 1/4" HEAT STRENGTHENED

GLASS TYPE 6 - 1/4" H.S. or TEMPERED
 1/2" AIR SPACE (ALUM SPACER)
 1/4" HEAT STRENGTHENED
 0.090" KURARAY BUTACITE PVB
 1/4" HEAT STRENGTHENED

GLASS TYPE 7 - 1/4" TEMPERED
 1/2" AIR SPACE (ALUM SPACER)
 1/4" HEAT STRENGTHENED
 0.090" KURARAY SENTRYGLAS
 1/4" HEAT STRENGTHENED

GLASS TYPE 8 - 1/4" H.S. or TEMPERED
 1/2" AIR SPACE (ALUM SPACER)
 1/4" HEAT STRENGTHENED
 0.075" SAFLEX CP INTERLAYER
 1/4" HEAT STRENGTHENED



*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATING GLASS UNIT MANUFACTURER.

SEE SHEET 26 FOR GLAZING MATERIALS

GLASS CHART

GLASS TYPES 5 & 6 (LM/SMI)

TESTED DLO'S = 58 1/2"x93 1/2" (90 psf), 57 3/4"x94 3/4" (90 psf), 73 3/4"x54 5/8" (90 psf)

ALLOWABLE DESIGN PRESSURE (psf)												
DLO HEIGHT (in)	DLO WIDTH (in)											
	38	39	42	45	48	52	57 3/4	66	72	78	84	93 1/2
58 1/2	90	90	90	90	90	90	90	90	90	90	90	90
65	90	90	90	90	90	90	90	90	90	90	90	-
70	90	90	90	90	90	90	90	90	90	90	-	-
76	90	90	90	90	90	90	90	90	90	-	-	-
82	90	90	90	90	90	90	90	90	-	-	-	-
94 3/4	90	90	90	90	90	90	90	-	-	-	-	-
105	90	90	90	90	90	90	-	-	-	-	-	-
114	90	90	90	90	90	-	-	-	-	-	-	-
120	90	90	90	90	-	-	-	-	-	-	-	-
130	90	90	90	-	-	-	-	-	-	-	-	-
138	90	90	-	-	-	-	-	-	-	-	-	-
144	90	-	-	-	-	-	-	-	-	-	-	-

GLASS TYPE 7 (LM/SMI)

TESTED DLO'S = 98 1/2"x70 1/2" (50 psf), 60"x94 3/4" (110 psf)

ALLOWABLE DESIGN PRESSURE (psf)												
DLO HEIGHT (in)	DLO WIDTH (in)											
	39	43	48	52 1/2	57 1/2	60	64	70 1/2	73	78	90	98 1/2
70 1/2	110	110	110	110	110	110	110	110	110	110	50	50
72	110	110	110	110	110	110	110	110	110	110	50	-
77	110	110	110	110	110	110	110	110	110	50	50	-
80	110	110	110	110	110	110	110	110	50	50	-	-
88 1/2	110	110	110	110	110	110	110	50	50	50	-	-
94 3/4	110	110	110	110	110	110	50	50	50	-	-	-
98 1/2	110	110	110	110	110	50	50	50	-	-	-	-
102	110	110	110	110	50	50	50	-	-	-	-	-
108	110	110	110	110	50	50	50	-	-	-	-	-
115	110	110	110	50	50	50	-	-	-	-	-	-
118	110	110	110	50	50	-	-	-	-	-	-	-
132	110	110	50	50	-	-	-	-	-	-	-	-
144	110	50	50	-	-	-	-	-	-	-	-	-

GLASS TYPE 8 (LM/SMI)

TESTED DLO'S = 58 1/2"x67" (+100/-130 psf)

ALLOWABLE DESIGN PRESSURE (psf)												
DLO HEIGHT (in)	DLO WIDTH (in)											
	36	39	42	45	48	52	58 1/2	60	66	72	81	93 1/2
41 1/2	110	110	110	110	110	110	110	110	110	110	110	110
48	110	110	110	110	110	110	110	110	110	110	110	-
54	110	110	110	110	110	110	110	110	110	110	-	-
60	110	110	110	110	110	110	110	110	110	-	-	-
66	110	110	110	110	110	110	110	110	-	-	-	-
67	110	110	110	110	110	110	110	-	-	-	-	-
75	110	110	110	110	110	110	-	-	-	-	-	-
81	110	110	110	110	110	-	-	-	-	-	-	-
87	110	110	110	110	-	-	-	-	-	-	-	-
93	110	110	110	-	-	-	-	-	-	-	-	-
100	110	110	-	-	-	-	-	-	-	-	-	-
108	110	-	-	-	-	-	-	-	-	-	-	-

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SEAL:
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 FL PE# 62354
 WALTERS ENGINEERING
 (COA# 27194)
 15211 97TH ROAD N
 WEST PALM BEACH, FL 33412
 PH/FAX: (561) 225-1982

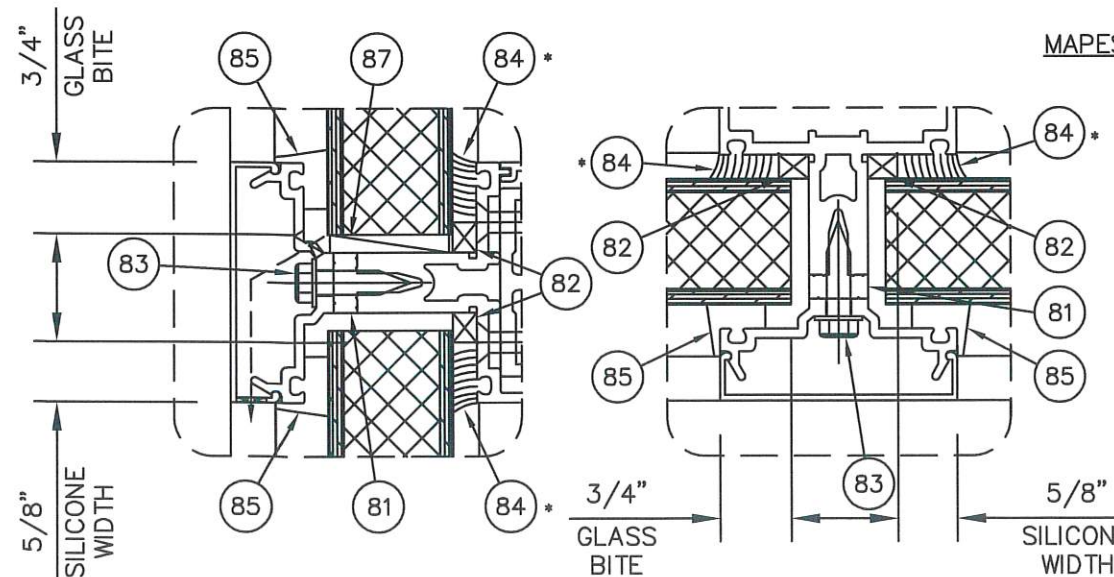
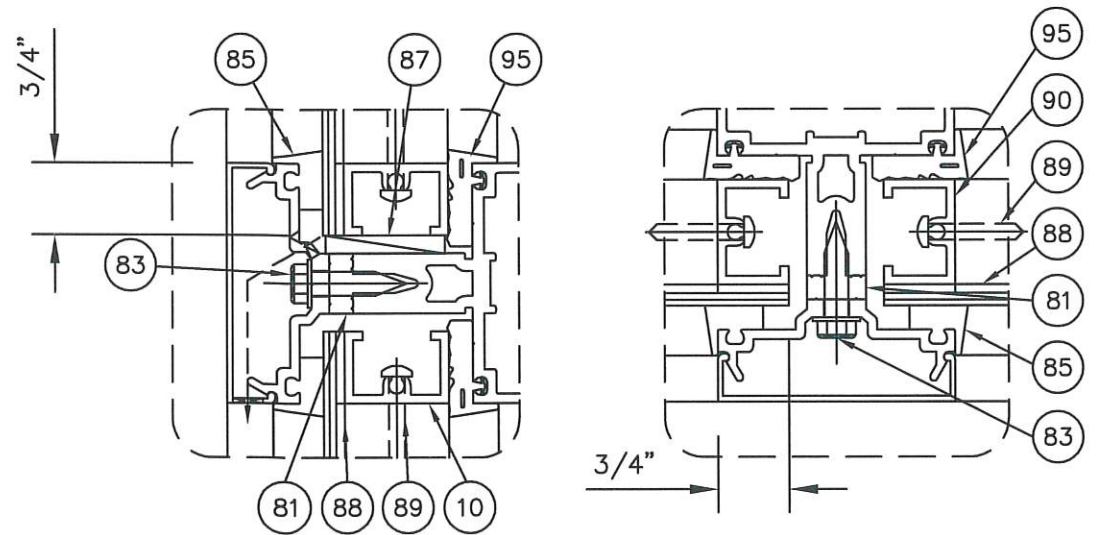
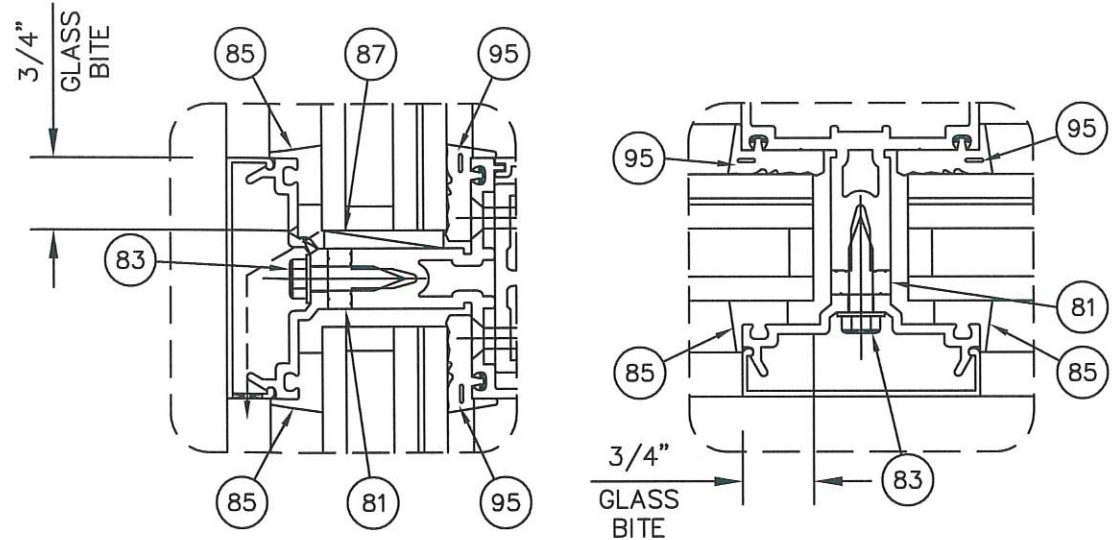
PRODUCT:
**1600 WALL
 10" SYSTEM 1**
 DWG:
1600-10-HVHZ
 SECTION:
5
 SHEET:
17/28

10/15/23	REV.#	DATE
2023 CODE UPDATE		
1ST SUBMITTAL		
PRINTS ISSUED FDR		

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 NORCROSS, GA 30092

LARGE AND SMALL MISSILE GLAZING

GLASS TYPE 7D - 1/4" TEMPERED
 1/2" AIR SPACE (ALUM SPACER)
 1/4" HEAT STRENGTHENED
 0.090" KURARAY SENTRYGLAS
 1/4" HEAT STRENGTHENED



GLASS TYPE 7D (LM/SMI - DRY GLAZED)
 TESTED DLO'S = 98 1/2"x70 1/2" (50 psf)

DLO HEIGHT (in)	ALLOWABLE DESIGN PRESSURE (psf)											
	DLO WIDTH (in)											
	39	43	48	52 1/2	57 1/2	60	64	70 1/2	73	78	90	98 1/2
70 1/2	50	50	50	50	50	50	50	50	50	50	50	50
77	50	50	50	50	50	50	50	50	50	50	50	-
88 1/2	50	50	50	50	50	50	50	50	50	50	-	-
94 3/4	50	50	50	50	50	50	50	50	50	-	-	-
98 1/2	50	50	50	50	50	50	50	50	-	-	-	-
108	50	50	50	50	50	50	50	-	-	-	-	-
115	50	50	50	50	50	50	-	-	-	-	-	-
118	50	50	50	50	50	-	-	-	-	-	-	-
132	50	50	50	50	-	-	-	-	-	-	-	-
144	50	50	50	-	-	-	-	-	-	-	-	-

SEE SHEET 39 FOR GLAZING MATERIALS

REYNOBOND ACM PANEL:
 0.130" REYNOBOND ACM PANEL
 0.090"x3/4" 3M VHB GLAZING TAPE
 3/4"x1.093" ALUMINUM CHANNEL

NOTE - #90 REINFORCING CHANNELS ARE REQUIRED, TAPED TO THE PANEL ACROSS THE SHORT DIMENSION WITH #88 GLAZING TAPE, SPACED 23 7/8" MAX. O.C.

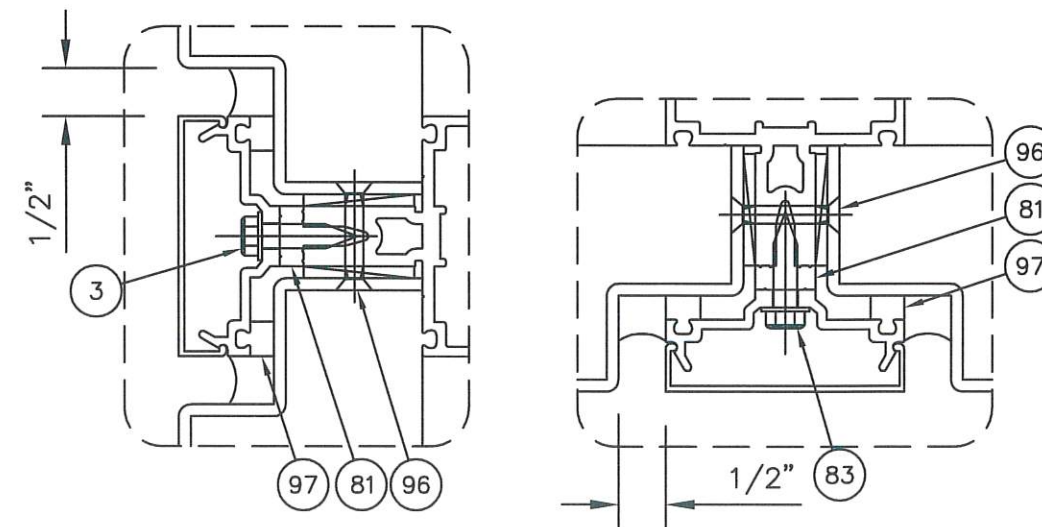
PANEL SIZE/PRESSURE CHART

PANEL TYPE	MAX DLO WIDTH (in)	MAX DLO HEIGHT (in)	MAX AREA (ft ²)	MAX DESIGN PRESSURE (psf)
REYNOBOND PANEL	57 1/2	94 3/4	38.0	+/-80
MAPESHIELD PANEL	58 1/2	116 1/2	47.3	+/-75
1/8" ALUM BRAKEMETAL PANEL	21 7/8	144	21.9	+/-71

PANEL NOTES:

- HORIZONTAL AND VERTICAL DLO DIMENSIONS MAY BE TRANSPOSED.
- COMPARATIVE ANALYSIS MAY BE PERFORMED PER FBC REQUIREMENTS, BUT THE LEAST DIMENSION FOR EACH PANEL TYPE MAY NOT BE EXCEEDED.
- SETTING BLOCK #81 MEETS THE REQUIREMENTS OF FBC SECTION 2411.3.3.1, AND IS INSTALLED (2) PER LITE.

1/8" BRAKE METAL PANEL:
 1/8" ALUMINUM BRAKE METAL



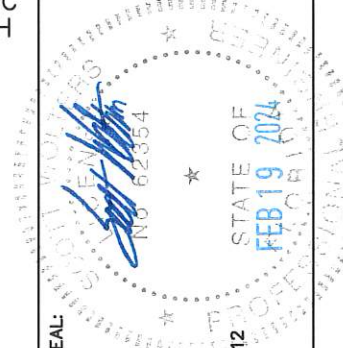
*INSTALLER NOTE: INSTALLER IS RESPONSIBLE FOR ALL REQUIRED COMPATIBILITY REVIEW AND APPROVALS WITH THE STRUCTURAL SILICONE MANUFACTURER AND THE INSULATING GLASS UNIT MANUFACTURER.

REV.#	DATE
1	2/19/24
2	10/15/23
3	10/19/20

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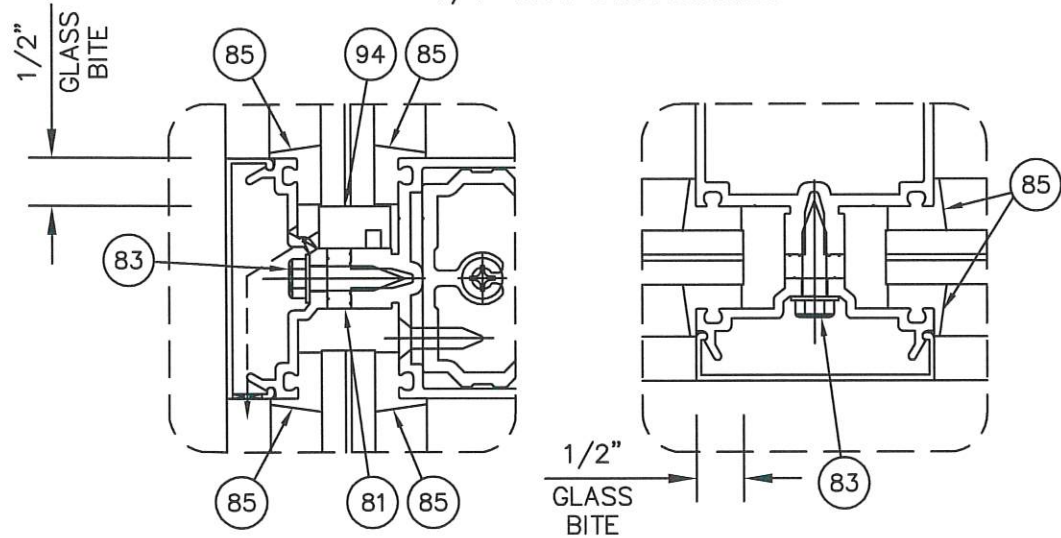
SEAL: SCOTT WALTERS
 FL PE# 62354

WALTERS ENGINEERING
 (COA# 27194)
 15211 97TH ROAD N
 WEST PALM BEACH, FL 33412
 PH/FAX: (561) 225-1982

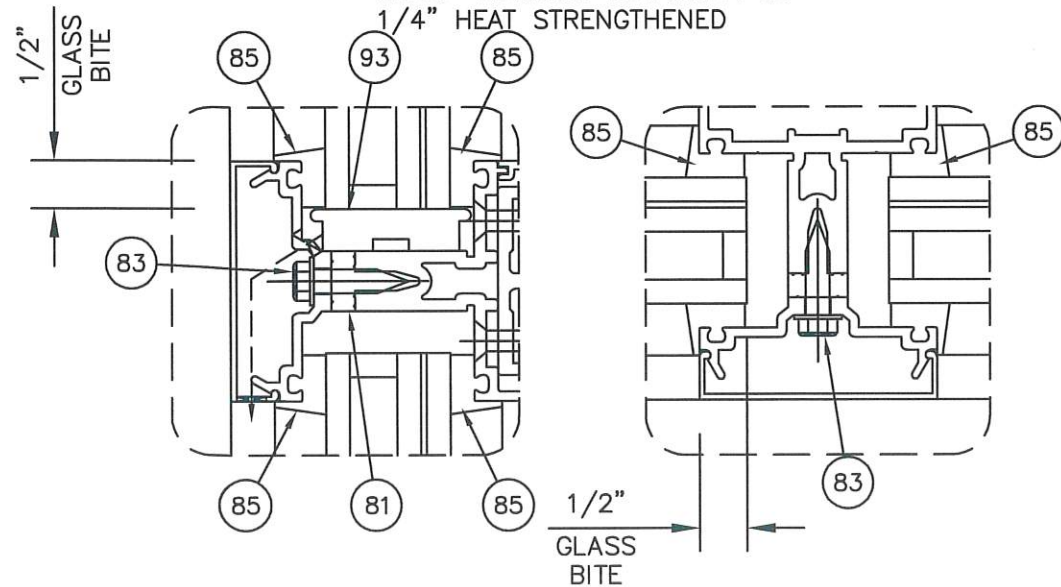
PRODUCT: 1600 WALL 10" SYSTEM 1
 DWG: 1600-10-HVHZ
 SECTION: 5
 SHEET: 18/28

SMALL MISSILE ONLY GLAZING

- GLASS TYPE 11 - 1/4" HEAT STRENGTHENED
0.060" SAFLEX PVB INTERLAYER
1/4" HEAT STRENGTHENED
- GLASS TYPE 12 - 1/4" HEAT STRENGTHENED
0.060" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED
- GLASS TYPE 13 - 1/4" HEAT STRENGTHENED
0.090" SAFLEX PVB INTERLAYER
1/4" HEAT STRENGTHENED
- GLASS TYPE 14 - 1/4" HEAT STRENGTHENED
0.090" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED



- GLASS TYPE 15 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.060" SAFLEX PVB INTERLAYER
1/4" HEAT STRENGTHENED
- GLASS TYPE 16 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.060" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED



GLASS CHART

GLASS TYPES 11, 12, 13, & 14 (SMI ONLY)

TESTED DLO'S = 58 1/2"x82 1/8" (90 psf), 51 3/8"x93 1/2" (90 psf), 50 5/8"x94 3/4" (90 psf), 73 3/4"x54 5/8" (90 psf)

ALLOWABLE DESIGN PRESSURE (psf)

DLO HEIGHT (in)	DLO WIDTH (in)											
	33 1/4	36	40	44 1/2	48	50 5/8	58 1/2	66	72	78	84	93 1/2
51 3/8	90	90	90	90	90	90	90	90	90	90	90	90
57	90	90	90	90	90	90	90	90	90	90	90	-
61 1/2	90	90	90	90	90	90	90	90	90	90	-	-
66 3/4	90	90	90	90	90	90	90	90	90	-	-	-
72 3/4	90	90	90	90	90	90	90	90	-	-	-	-
82 1/8	90	90	90	90	90	90	90	-	-	-	-	-
94 3/4	90	90	90	90	90	90	-	-	-	-	-	-
100	90	90	90	90	90	-	-	-	-	-	-	-
108	90	90	90	90	-	-	-	-	-	-	-	-
120	90	90	90	-	-	-	-	-	-	-	-	-
132	90	90	-	-	-	-	-	-	-	-	-	-
144	90	-	-	-	-	-	-	-	-	-	-	-

GLASS TYPES 15 & 16 (SMI ONLY)

TESTED DLO'S = 58 1/2"x93 1/2" (90 psf), 57 3/4"x94 3/4" (90 psf), 67 1/2"x116 1/2" (71 psf)

ALLOWABLE DESIGN PRESSURE (psf)

DLO HEIGHT (in)	DLO WIDTH (in)											
	38	41	45 1/2	54 1/2	58 1/2	63	69	75	78 1/2	84	90	99 1/2
55	90	90	90	90	90	90	90	90	90	90	90	90
60 3/4	90	90	90	90	90	90	90	90	90	90	90	71
65	90	90	90	90	90	90	90	90	90	90	71	71
69 1/2	90	90	90	90	90	90	90	90	90	71	71	71
72 3/4	90	90	90	90	90	90	90	90	71	71	71	71
78 3/4	90	90	90	90	90	90	90	71	71	71	71	71
86 1/2	90	90	90	90	90	90	71	71	71	71	71	-
93 1/2	90	90	90	90	90	71	71	71	71	71	-	-
100	90	90	90	90	71	71	71	71	71	-	-	-
104 1/2	90	90	90	71	71	71	71	71	-	-	-	-
113 1/2	90	90	90	71	71	71	71	-	-	-	-	-
120	90	90	90	71	71	71	-	-	-	-	-	-
132	90	90	71	71	71	-	-	-	-	-	-	-
144	90	71	71	71	-	-	-	-	-	-	-	-

SEE SHEET 26 FOR GLAZING MATERIALS

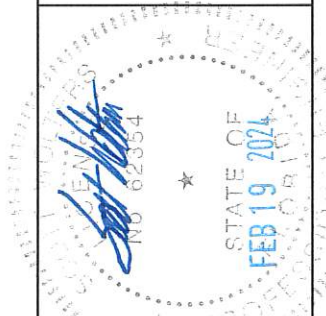
GLAZING NOTES:

- THESE GLASS TYPES ARE SMALL MISSILE IMPACT RESISTANT ONLY. SHUTTERS ARE REQUIRED FOR USE BELOW 30 FT. IN WINDBORNE DEBRIS REGIONS.
- SETTING BLOCKS 93 AND 94 MEET THE REQUIREMENTS OF FBC SECTION 2411.3.3.1, AND ARE INSTALLED (2) PER LITE.

REV #	DATE
10/15/23	
10/12/20	



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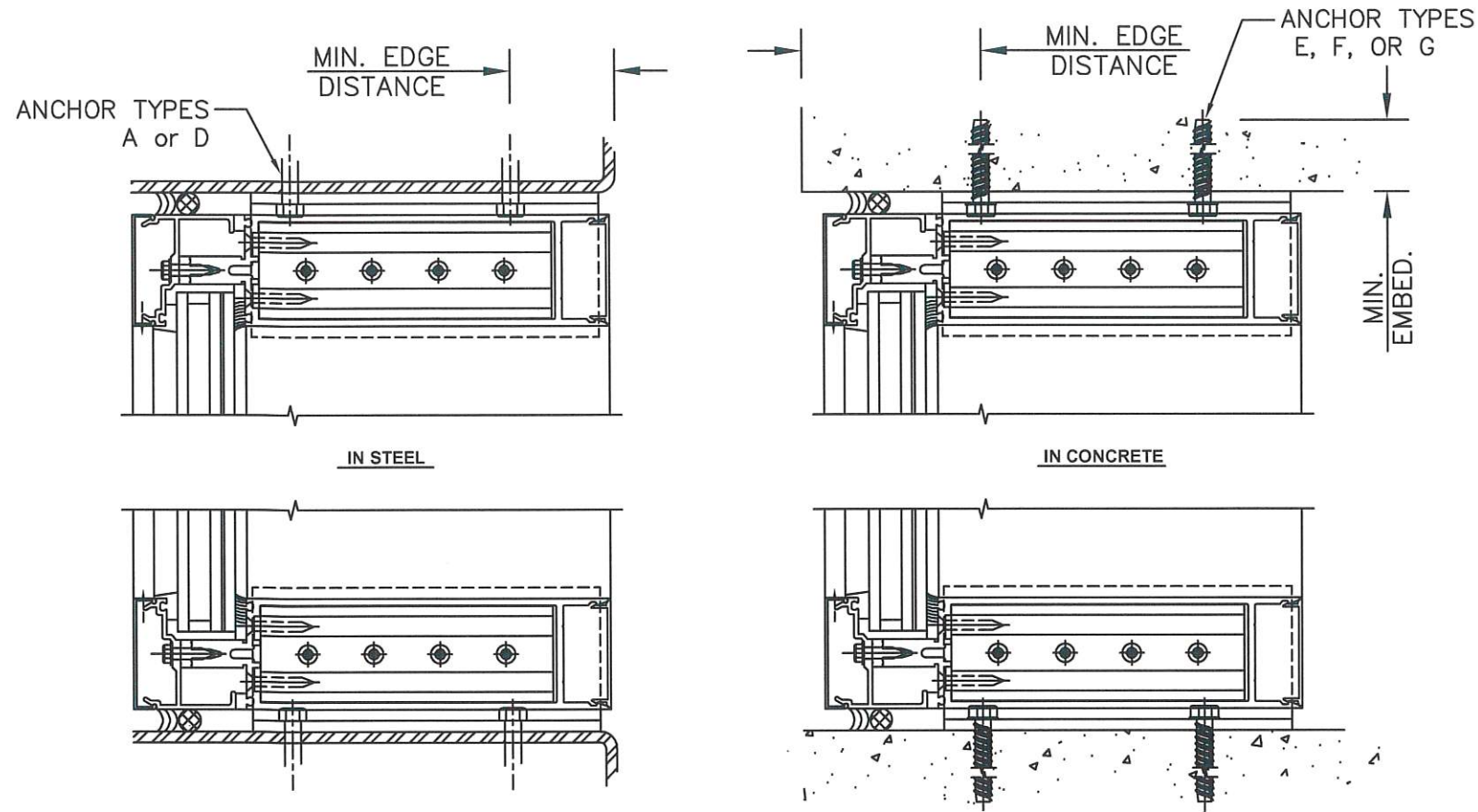


SEAL:
SCOTT WALTERS
FL PE# 62354
WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

PRODUCT:
1600 WALL SYSTEM 1 & 2
DWG:
1600-IR-HVHZ
SECTION:
5
SHEET:
19/28

HEAD/SILL ANCHOR DETAILS

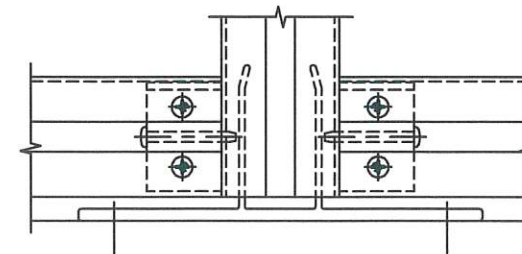
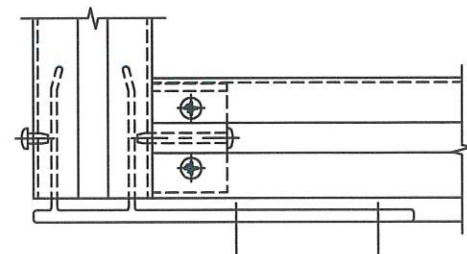
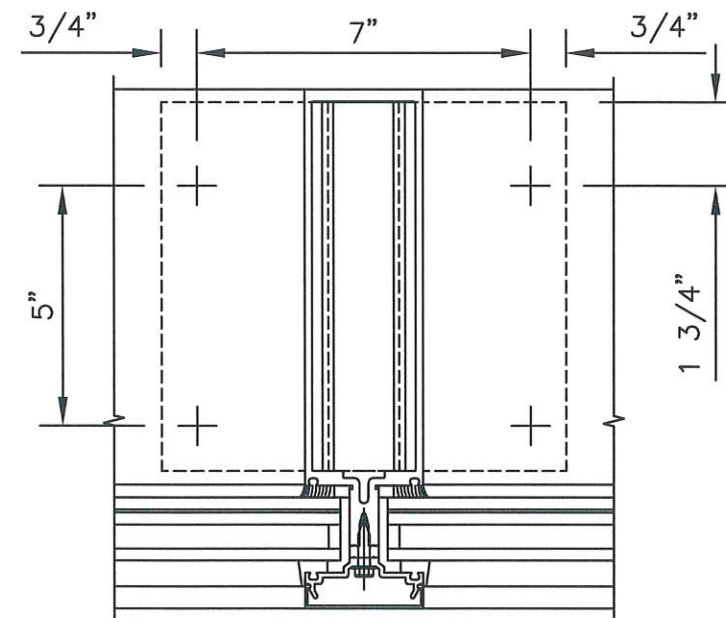
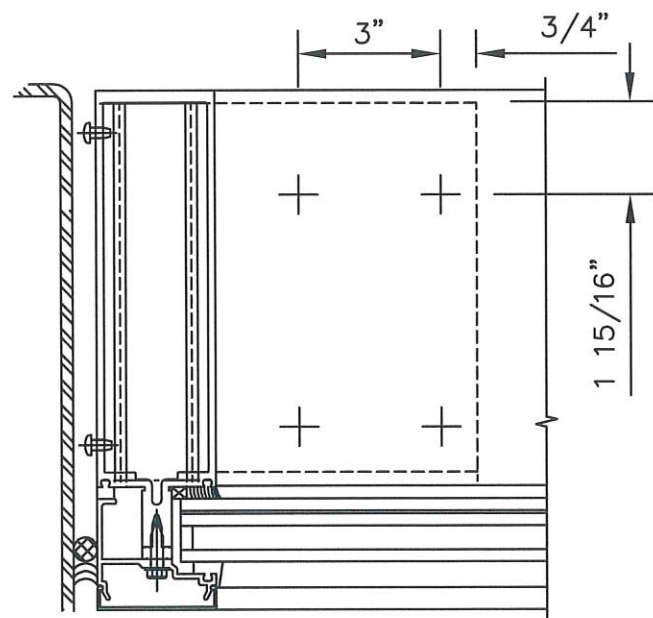
SEE CHART FOR FASTENER & SUBSTRATE INFORMATION.



HEAD/SILL ANCHORS						
SUBSTRATE	MARK	TYPE	QUANTITY		MIN EMBED (in)	MIN EDGE DISTANCE (in)
			MULLION	JAMB ⁴		
STRUCTURAL STEEL (1/4", A36 min)	A	3/8" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min)	4	4	FULL*	3/4"
	B	1/4" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min)	8	6	FULL*	1"
	C	1/4" DIA. ELCO DRIL-FLEX	8	6	FULL*	1"
	D	1/4" DIA. ELCO DRIL-FLEX	4	4	FULL*	1"
CONCRETE (4000 psi min)	E	3/8" DIA. WEDGE -TYPE CONCRETE ANCHOR ¹	4	4	3 1/2"	4 1/2"
	F	3/8" DIA. STUD -TYPE CONCRETE ANCHOR ²	4	4	3"	6"
	G	1/2" DIA. SLEEVE -TYPE CONCRETE ANCHOR ³	4	4	3 1/2"	6"

ANCHOR NOTES:

1. WEDGE-TYPE ANCHORS INCLUDE DeWALT SCREW-BOLT+, HILTI KWIK HUS-EZ, AND SIMPSON STRONG-TIE TITAN HD.
 2. STUD-TYPE ANCHORS INCLUDE DeWALT POWER-STUD+SD1, HILTI KWIK BOLT3, AND SIMPSON STRONG-TIE WEDGE-ALL.
 3. SLEEVE-TYPE ANCHORS INCLUDE DeWALT POWER-BOLT+, HILTI HSL-3, AND SIMPSON STRONG-TIE SLEEVE-ALL.
 4. ONLY (2) 1/4" DIA. ELCO ULTRACONS OR DRIL-FLEX ARE REQUIRED AT HEAD/SILL F-ANCHORS WHEN THE JAMB MULLION IS ANCHORED TO THE STRUCTURE USING F-PERIMETER PER DETAIL 10/11.
- * FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

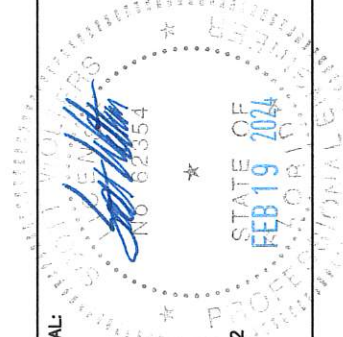


10/15/23	DATE
10/12/19	DATE
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NORCROSS, GA 30092



SEAL:
SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

PRODUCT:
**1600 WALL
10" SYSTEM 1**

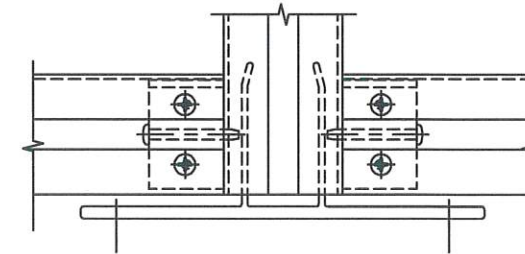
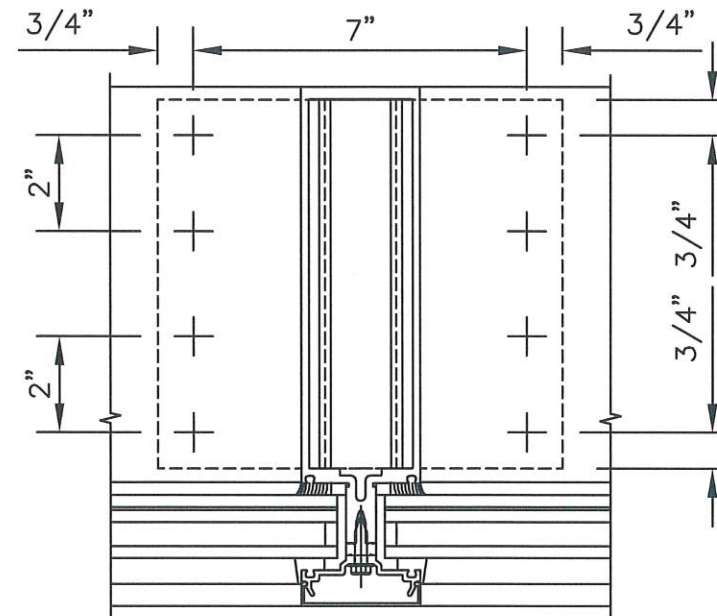
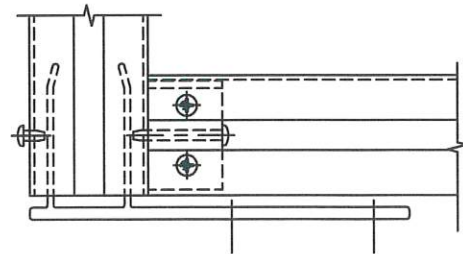
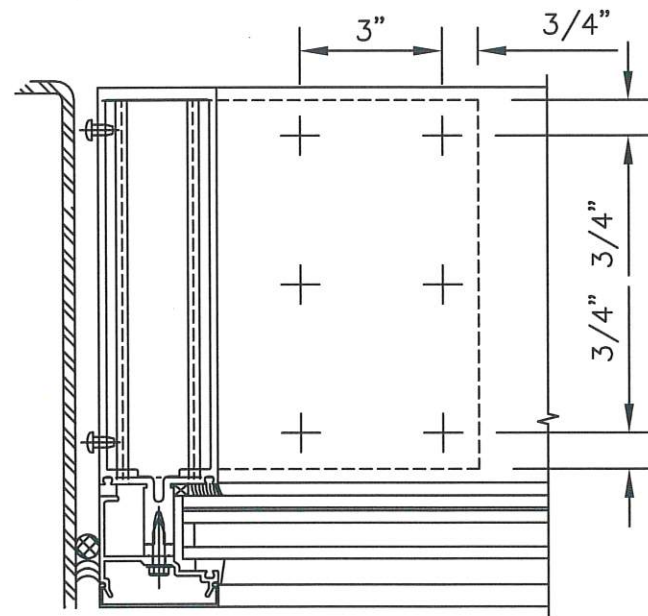
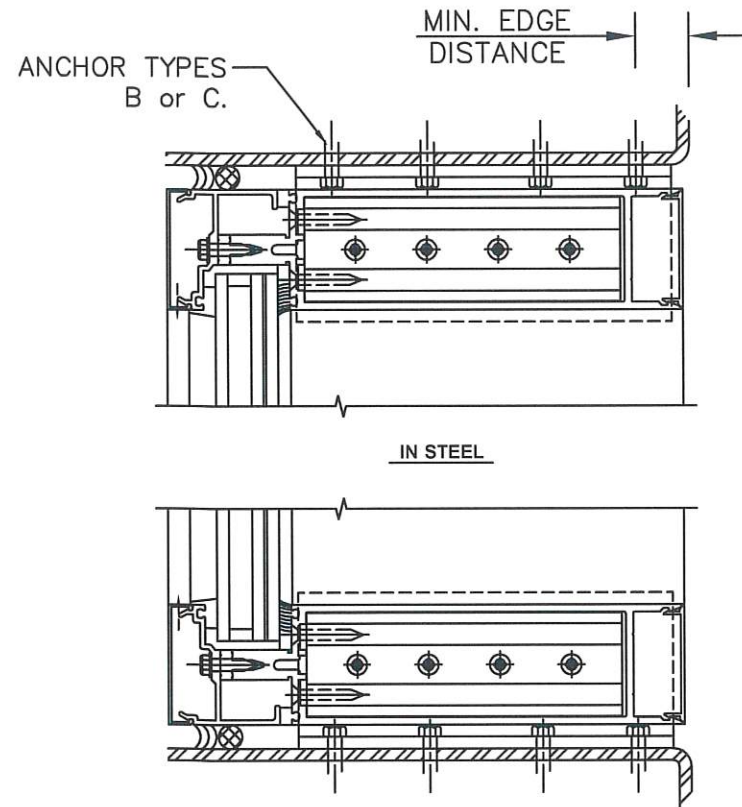
DWG:
1600-10-HVHZ

SECTION:
6

SHEET:
20/28

HEAD/SILL ANCHOR DETAILS

SEE CHART ON SHEET 20 FOR FASTENER & SUBSTRATE INFORMATION.



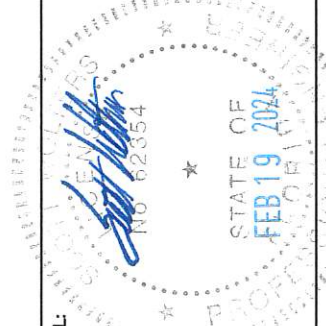
HEAD/SILL ANCHORS - ALLOWABLE DESIGN PRESSURES									
MULLION HEIGHT (in)	MULLION WIDTH (in)	MAX. ALLOWABLE DESIGN PRESSURES (psf)							
		STANDARD ANCHORS				SHALLOW HORIZONTAL ANCHORS			
		D	E	F	G	D	E	F	G
150	48	103.4	110.0	110.0	110.0	103.4	110.0	110.0	108.0
	54	91.9	110.0	110.0	110.0	91.9	110.0	110.0	96.0
	60	82.7	110.0	110.0	99.2	82.7	110.0	110.0	86.4
	72	68.9	110.0	110.0	82.7	68.9	100.8	100.8	72.0
	84	59.1	110.0	96.0	70.9	59.1	86.4	86.4	61.7
168	92	53.9	110.0	87.7	64.7	53.9	78.9	78.9	56.3
	48	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
	54	82.0	90.0	90.0	90.0	82.0	90.0	90.0	85.7
	60	73.8	90.0	90.0	88.6	73.8	90.0	90.0	77.1
186	72	61.5	90.0	90.0	73.8	61.5	90.0	90.0	64.3
	82 3/4	53.5	90.0	87.0	64.2	53.5	78.3	78.3	55.9
	48	83.4	90.0	90.0	90.0	83.4	90.0	90.0	87.1
	54	74.1	90.0	90.0	88.9	74.1	90.0	90.0	77.4
203	60	66.7	90.0	90.0	80.0	66.7	90.0	90.0	69.7
	74 1/2	53.7	90.0	87.3	64.4	53.7	78.6	78.6	56.1
	48	76.4	90.0	90.0	90.0	76.4	90.0	90.0	79.8
203	54	67.9	90.0	90.0	81.4	67.9	90.0	90.0	70.9
	60	61.1	90.0	90.0	73.3	61.1	89.4	89.4	63.8
	68 5/8	53.4	90.0	86.8	64.1	53.4	78.1	78.1	55.8

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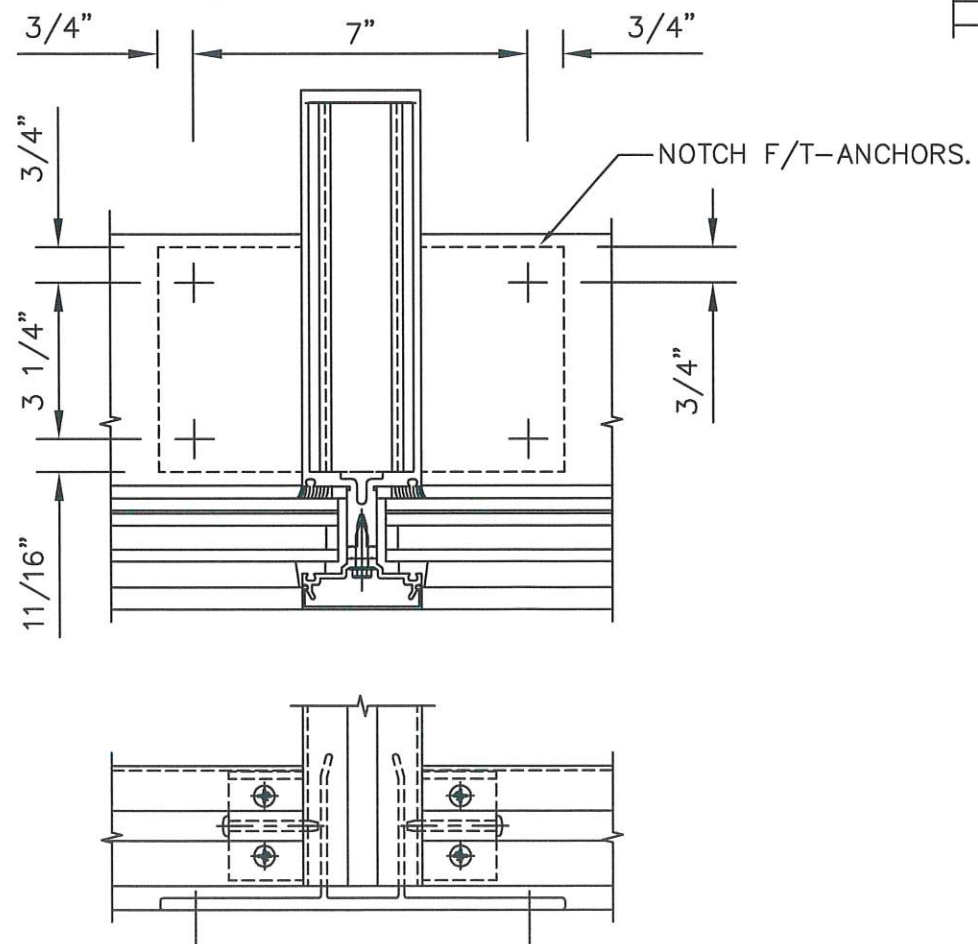
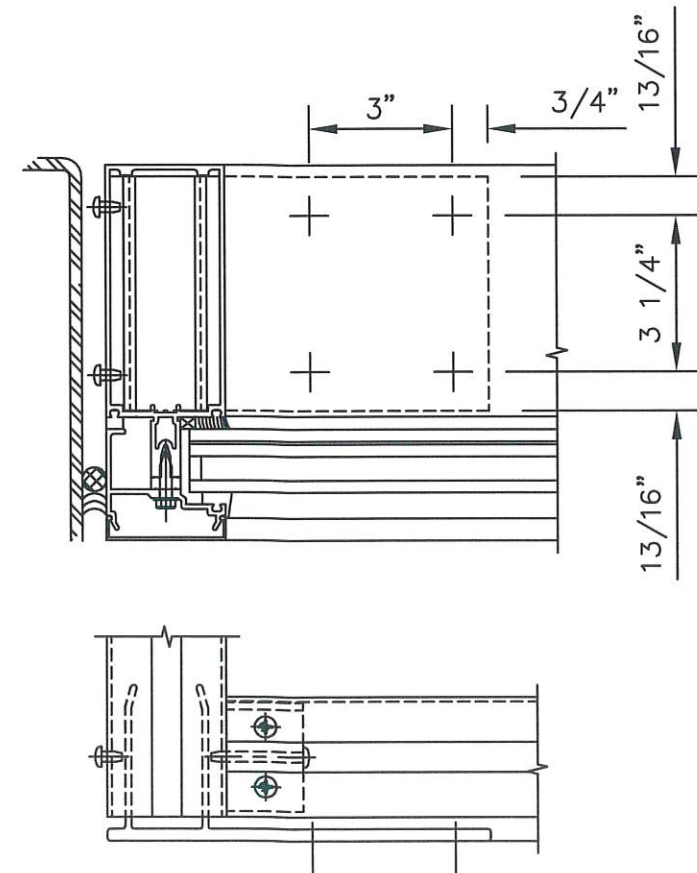
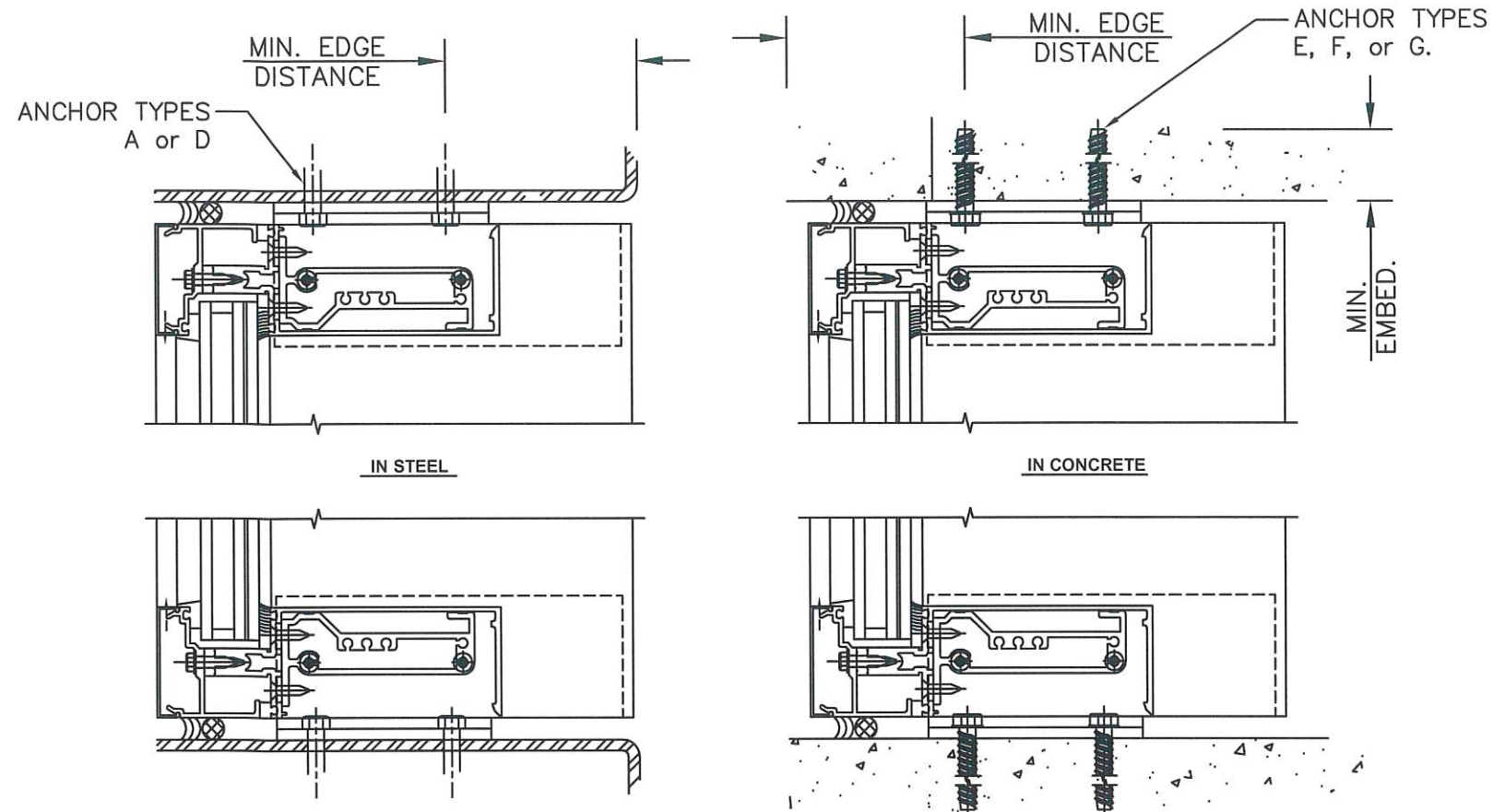
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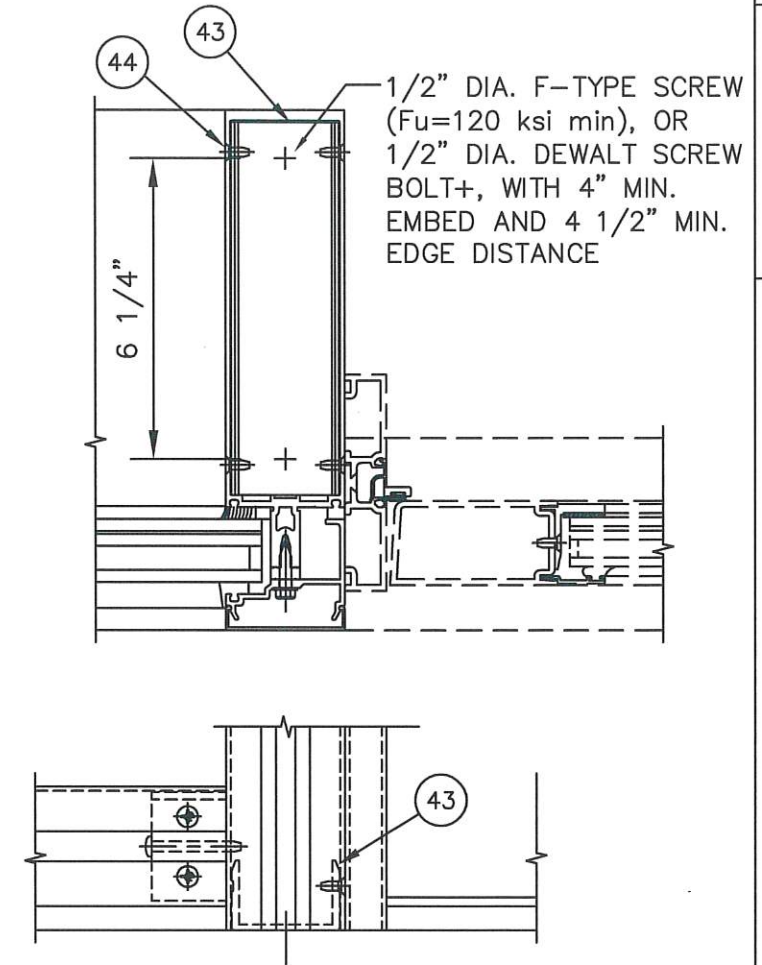
PRODUCT: 1600 WALL 10" SYSTEM 1
DWG: 1600-10-HVHZ
SECTION: 6
SHEET: 21/28

HEAD/SILL ANCHOR DETAILS

WITH OPTIONAL 7" HORIZONTALS AND JAMBS



DOORJAMB ANCHORS

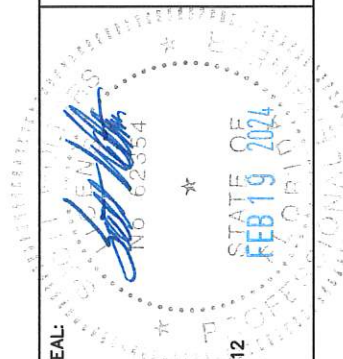


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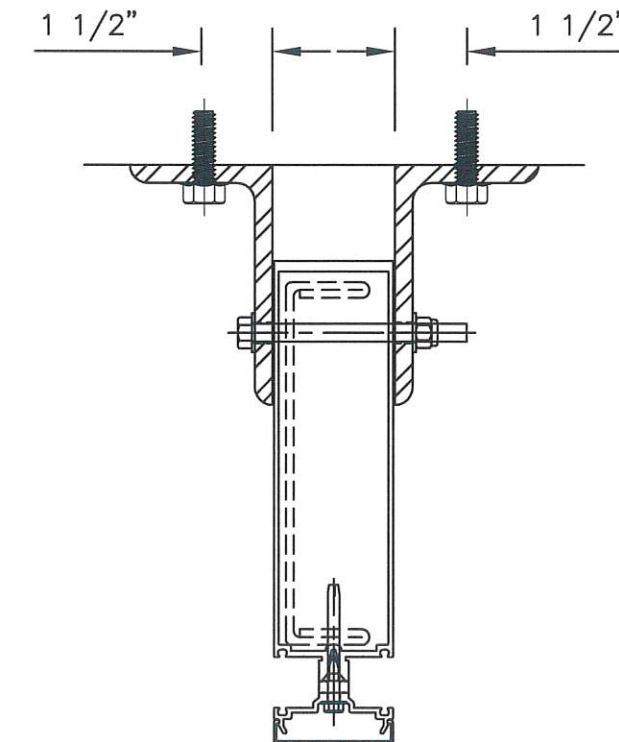
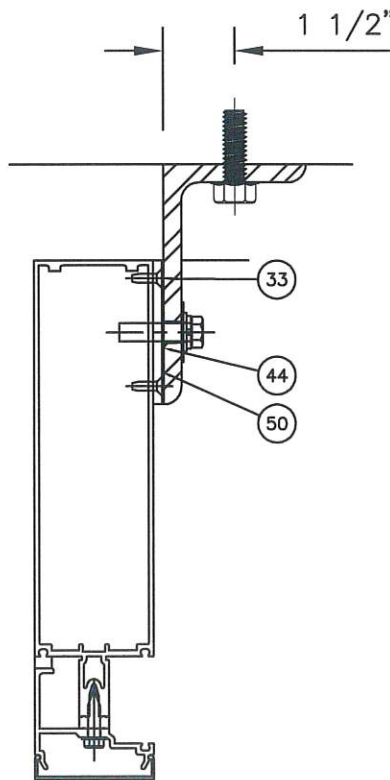
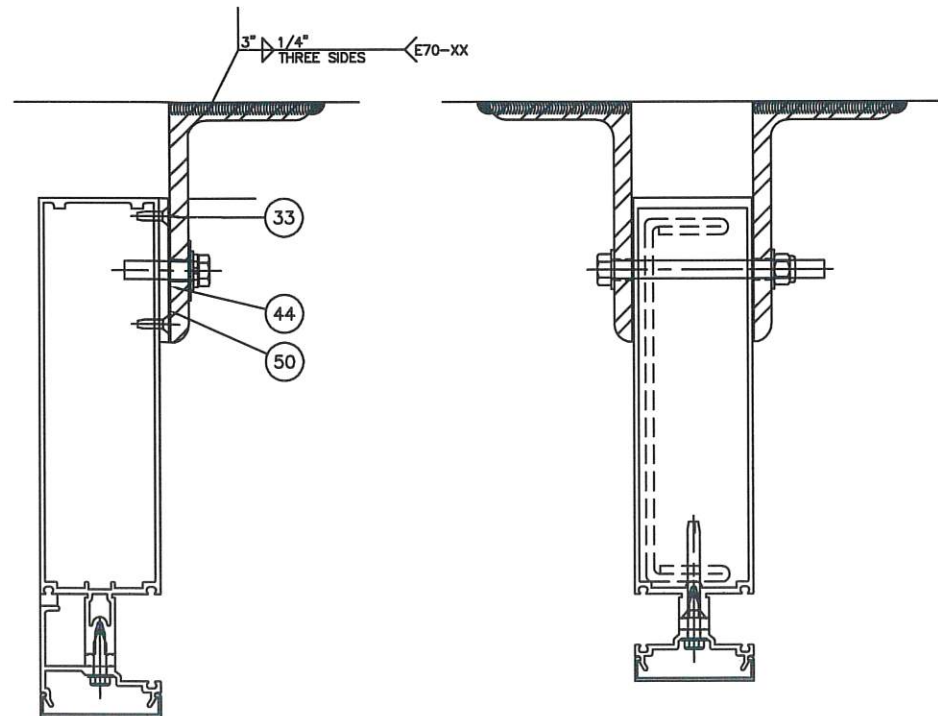
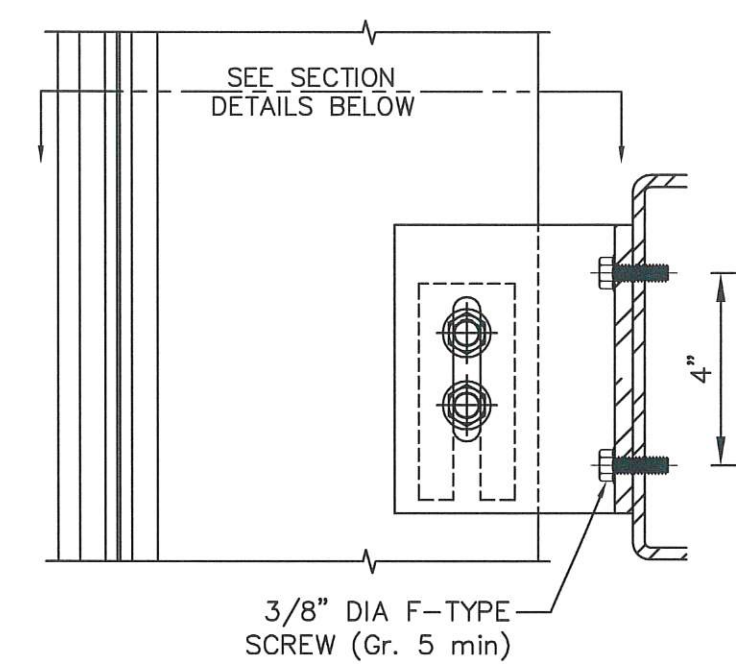
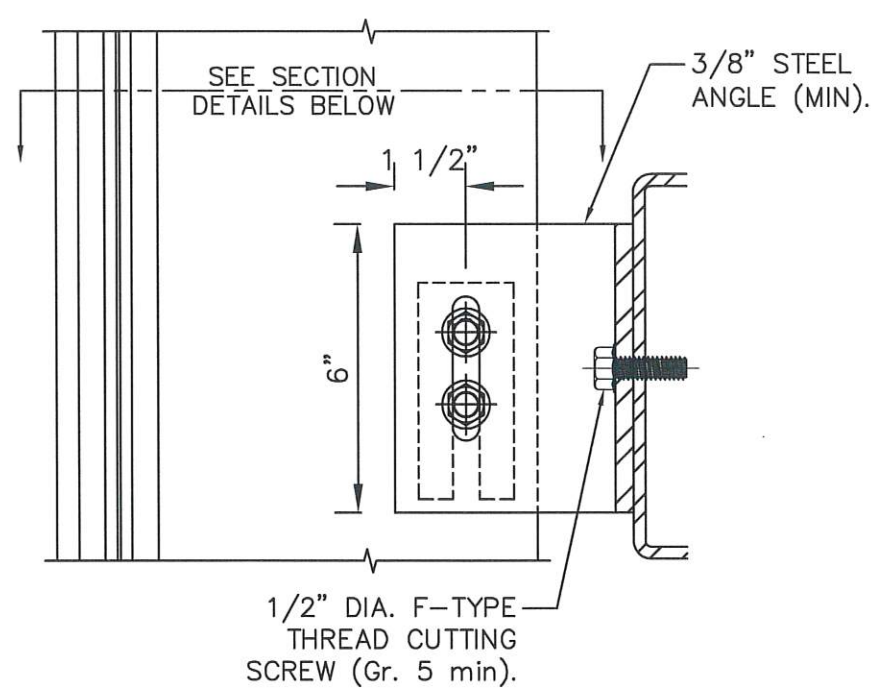
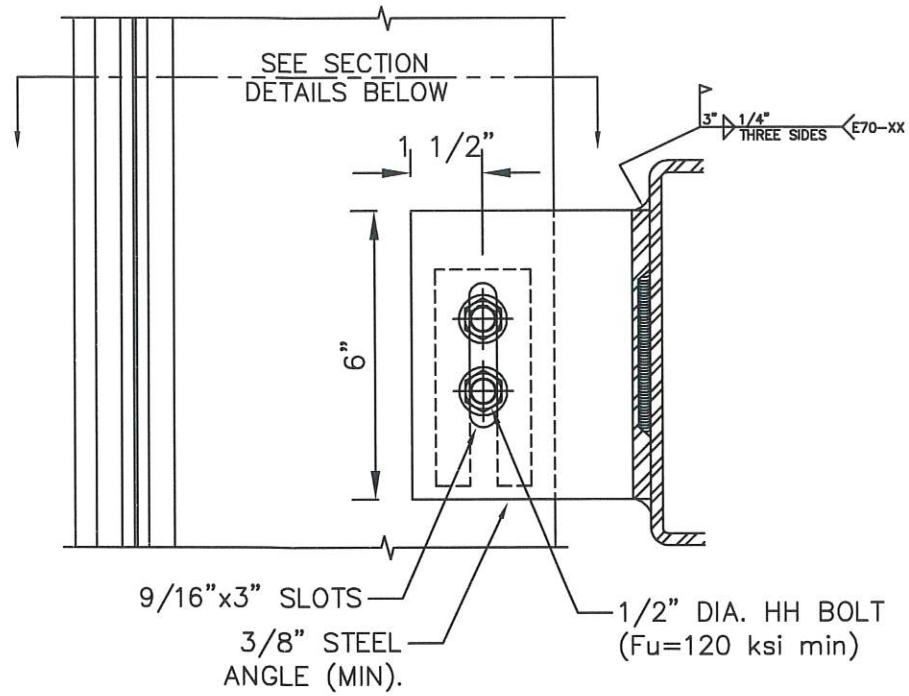


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PRODUCT: 1600 WALL 10" SYSTEM 1
DWG: 1600-10-HVHZ
SECTION: 6
SHEET: 22/28

OPTIONAL CLIP ANCHOR DETAILS

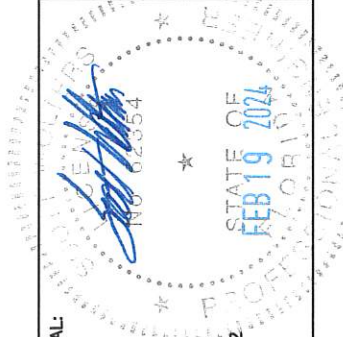


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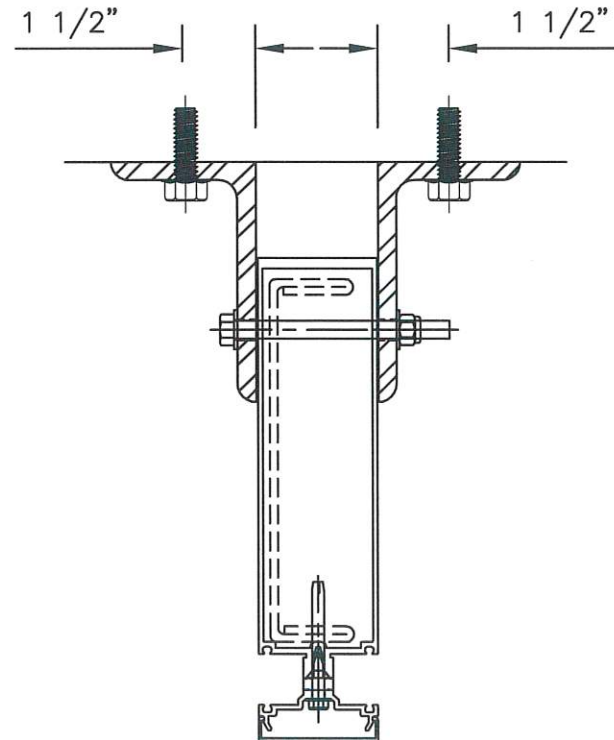
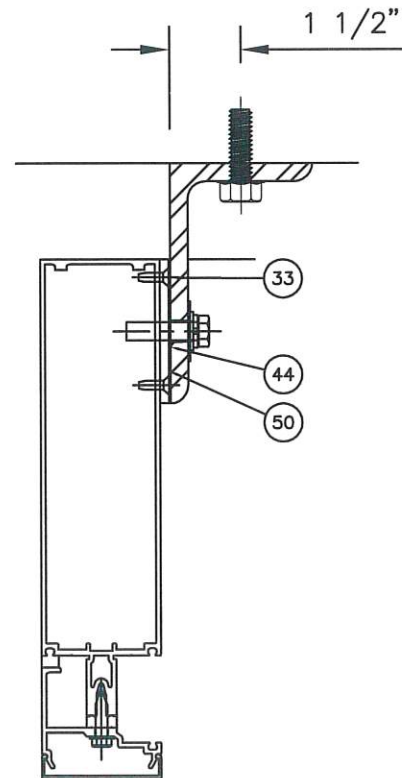
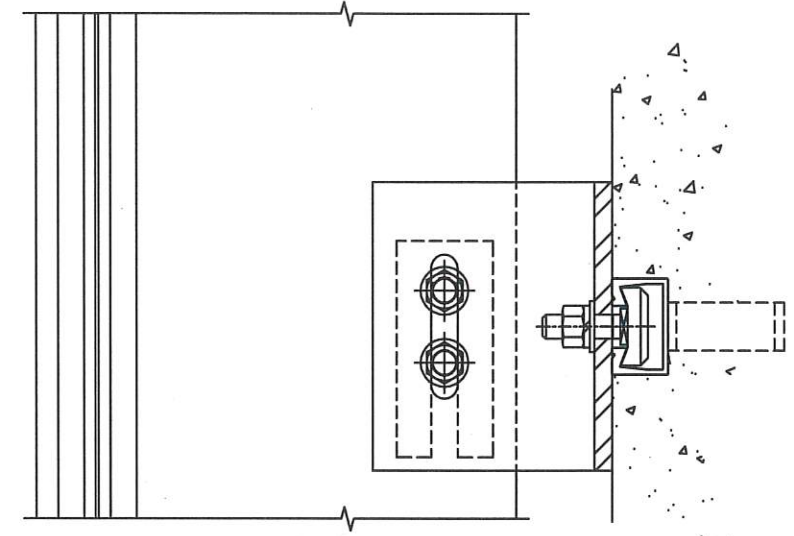
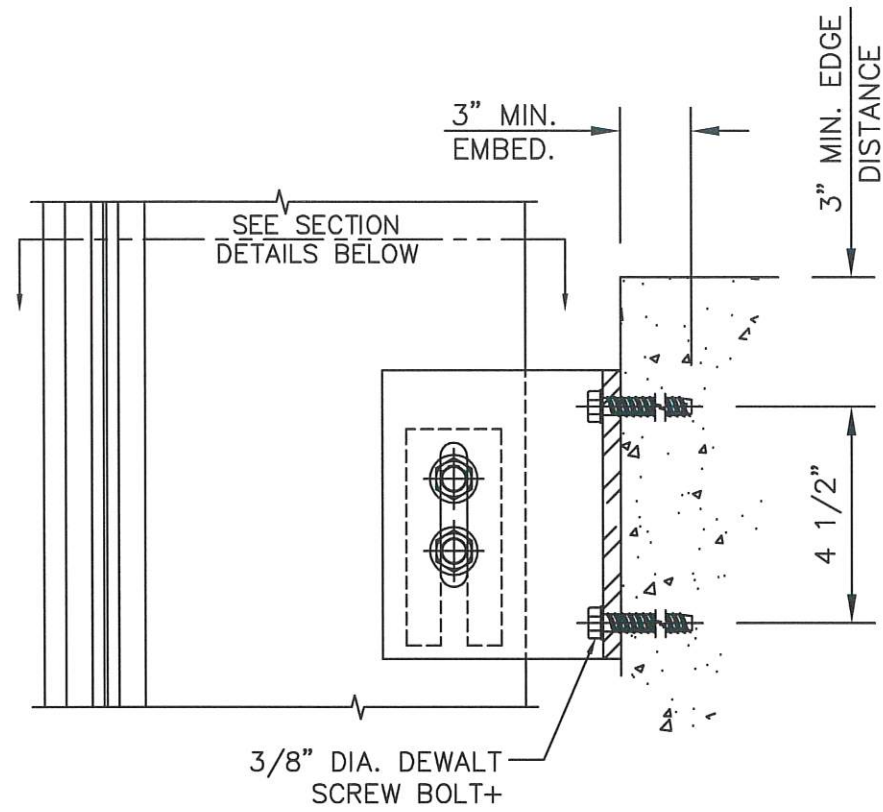
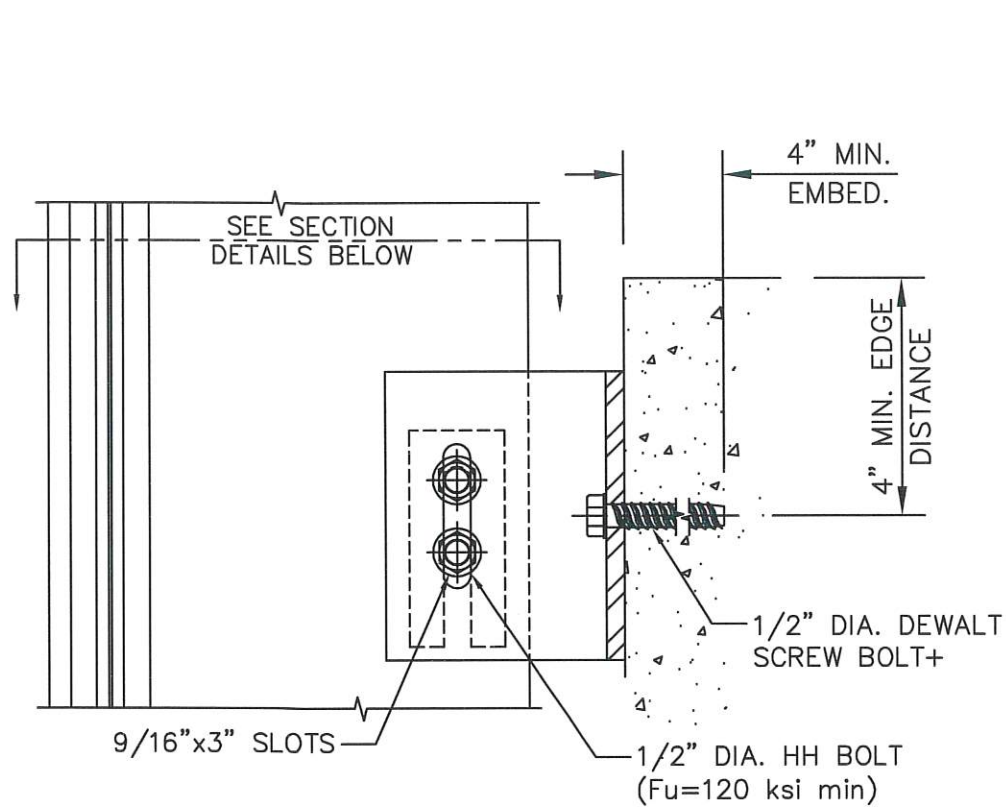
PRODUCT:
**1600 WALL
10" SYSTEM 1**

DWG:
1600-10-HVHZ

SECTION:
6

SHEET:
23/28

MID-SPAN ANCHOR DETAILS

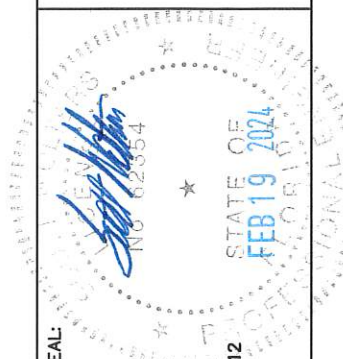


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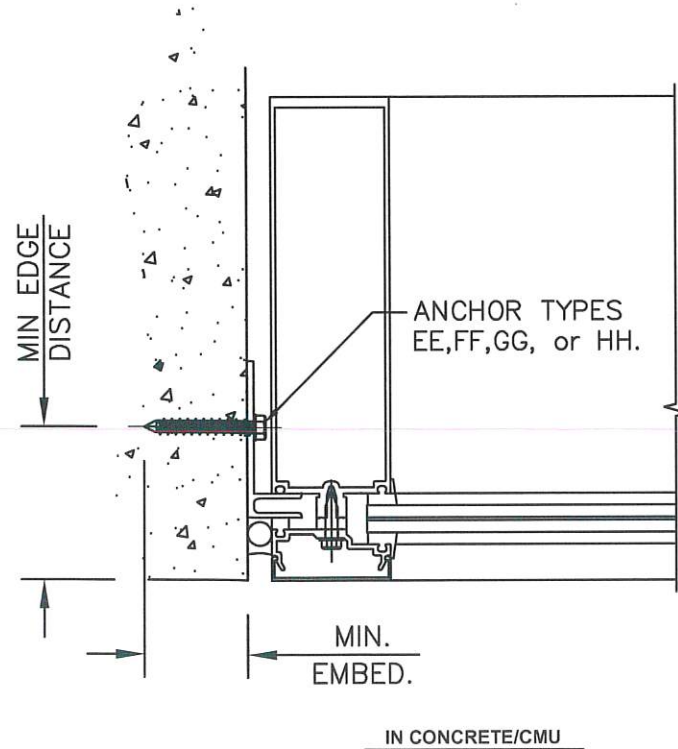
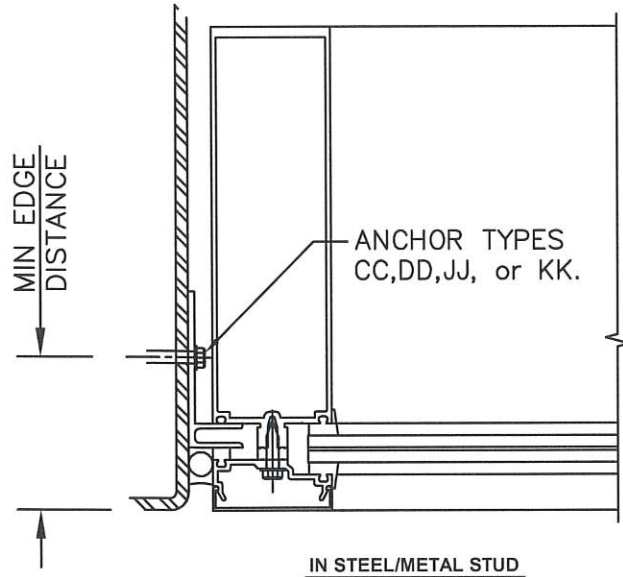
PRODUCT:
**1600 WALL
10" SYSTEM 1**

DWG:
1600-10-HVHZ

SECTION:
6

SHEET:
24/28

FASTENED JAMB DETAILS F-PERIMETER ANCHOR CHARTS



JAMB F-PERIMETER ANCHORS					
SUBSTRATE	MARK	TYPE	MIN EMBED (in)	MIN EDGE DISTANCE (in)	MAX. REACTION (lb)
STRUCTURAL STEEL (1/4", A36 min)	H	1/4" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min)	FULL*	3/4"	425 lb.
	J	1/4" DIA. ELCO DRIL-FLEX	FULL*	3/4"	581 lb.
CONCRETE (2846 psi min)	K	1/4" DIA. ELCO ULTRACON	1 3/4"	2 1/2"	357 lb.
CONCRETE (3515 psi min)	L	5/16" DIA. ELCO ULTRACON	1 3/4"	3 1/8"	581 lb.
CMU (ASTM C-90 GRADE N, TYPE 1 min)	M	1/4" DIA. ELCO ULTRACON	1 3/4"	2 1/2"	200 lb.
	N	5/16" DIA. ELCO ULTRACON	1 3/4"	2 1/2"	296 lb.
METAL STUD (16 Ga, 45 ksi min)	P	1/4" DIA. F-TYPE SCREW (Fu=120 ksi min)	FULL*	3/4"	357 lb.
	Q	1/4" DIA. ELCO DRIL-FLEX	FULL*	3/4"	357 lb.

* FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

JAMB F-PERIMETER MAX. FASTENER SPACING (in)									
WINDLOAD (+/- psf)	JAMB DLO WIDTH (in)	FASTENER CONFIGURATIONS							
		H	J	K	L	M	N	P	Q
60	48	18	24	18	18	18	18	18	18
	60	18	24	18	18	15	18	18	18
	72	18	24	18	18	12	18	18	18
	84	18	24	18	18	11	16	18	18
	96	18	24	17	18	10	14	17	17
75	48	18	24	18	18	14	18	18	18
	60	18	24	18	18	12	17	18	18
	72	18	24	18	18	10	15	18	18
	84	18	24	15	18	9	13	15	15
	96	16	22	14	18	8	11	14	14
90	48	18	24	18	18	12	18	18	18
	60	18	24	18	18	10	15	18	18
	72	18	24	15	18	8	12	15	15
	84	15	21	13	18	7	11	13	13
	96	13	18	11	18	6	9	11	11
100	48	18	24	18	18	11	16	18	18
	60	18	24	16	18	9	13	16	16
	72	16	22	13	18	7	11	13	13
	84	14	19	12	18	6	10	12	12
	96	12	17	10	17	6	8	10	10
110	48	18	24	18	18	11	16	18	19
	60	17	23	14	18	8	12	14	14
	72	14	20	12	18	7	10	12	12
	84	13	17	11	17	6	9	11	11
	96	11	15	9	15	-	8	9	9

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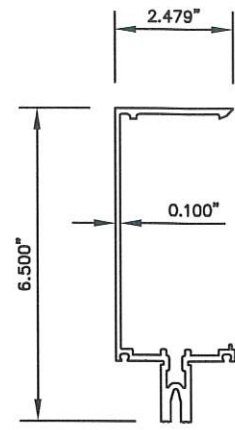
PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-HVHZ

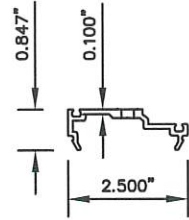
SECTION:
6

SHEET:
25/28

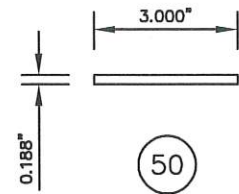
EXTRUSION PROFILES



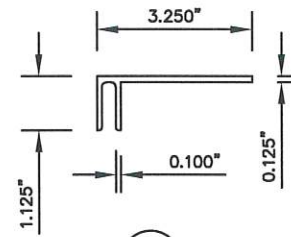
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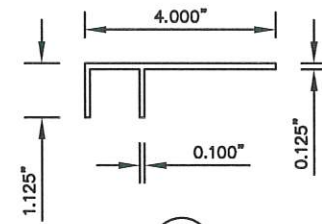
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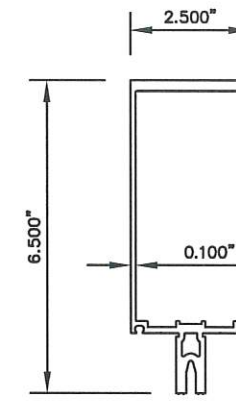
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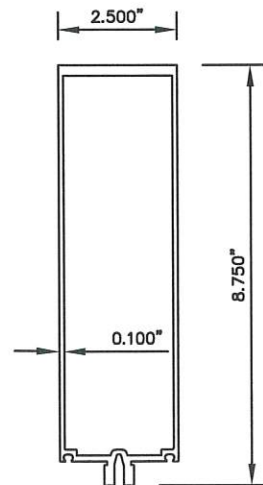
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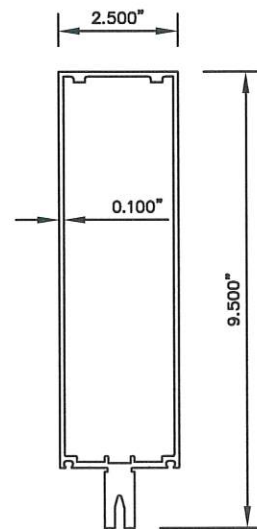
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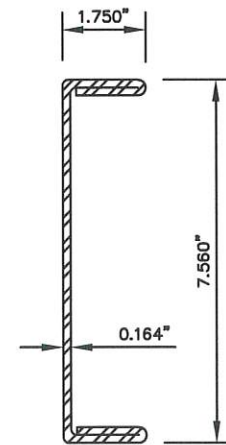
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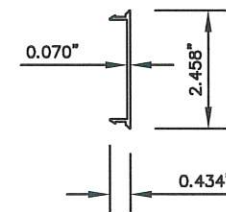
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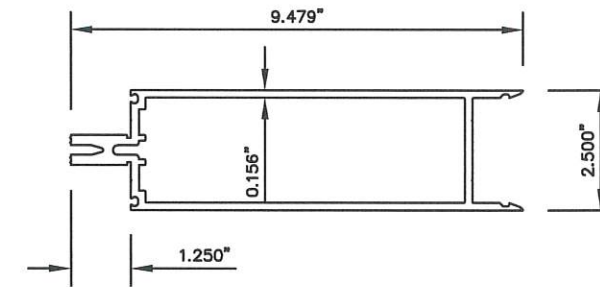
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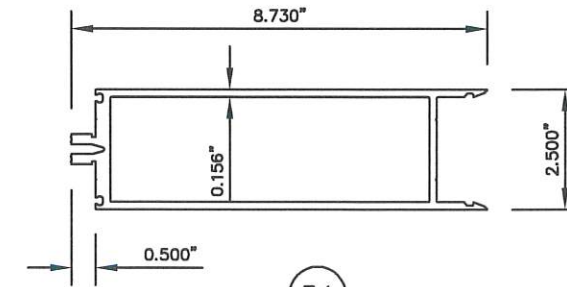
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PRODUCT:
**1600 WALL
10" SYSTEM 1**

DWG:
1600-10-HVHZ

SECTION:
7

SHEET:
28/28