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—	—	—	10/15/23
—	—	—	10/12/20
2026 CODE UPDATE	—	—	8/17/26
REVISION	—	—	12/16/24
REVISION	—	—	2/19/24
2023 CODE UPDATE	—	—	10/15/23
1ST SUBMITTAL	—	—	10/12/20
PRINTS ISSUED FOR	REV.#	DATE	

1. THIS PRODUCT MEETS ALL THE REQUIREMENTS OF THE 9TH EDITION (2026) 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 E1300-16, 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.

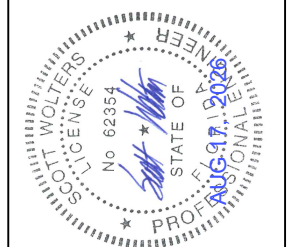
GLASS.....	SEE CHARTS IN SECTION 05 FOR ALLOWABLE GLASS TYPES, SIZES AND DESIGN PRESSURES.
MULLIONS.....	SEE CHARTS IN SECTION 04 FOR ALLOWABLE DESIGN PRESSURES FOR VARIOUS MULLION AND REINFORCEMENT CONFIGURATIONS.
JAMBS.....	SEE CHARTS IN SECTION 04 (FREE JAMBS) AND SECTION 06 (FASTENED JAMB) FOR ALLOWABLE DESIGN PRESSURES.
HORIZONTALS.....	SEE CHARTS IN SECTION 04 FOR ALLOWABLE HORIZONTAL MULLIONS AND DESIGN PRESSURES.
ANCHORS.....	SEE CHARTS IN SECTION 06 FOR ALLOWABLE LOADS FOR HEAD/SILL ANCHORS AND MID-SPAN ANCHORS.
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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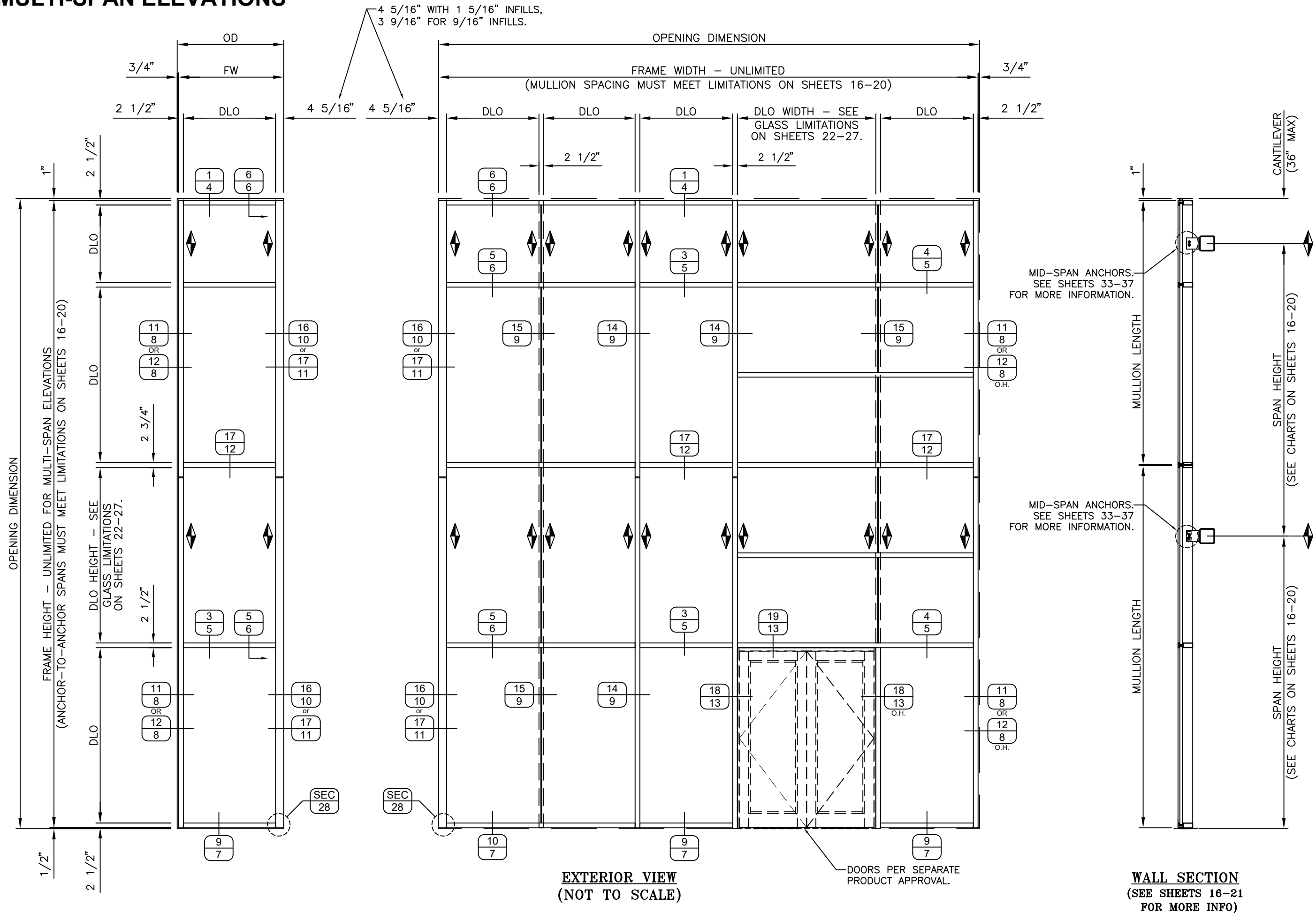
SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

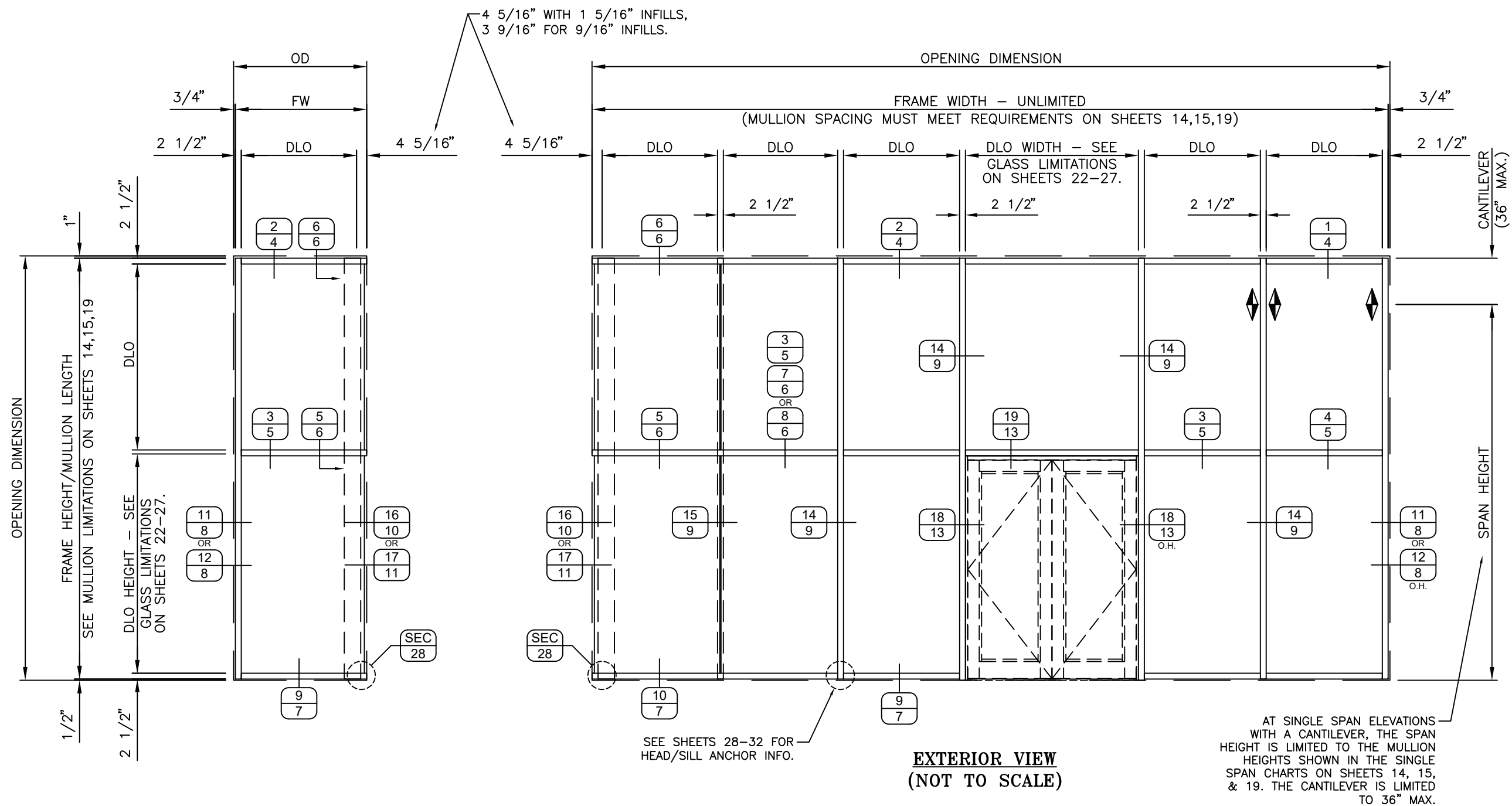
PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	1
SHEET:	1/42

MULTI-SPAN ELEVATIONS



SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982			 KAWNEER AN ARCONIC COMPANY 555 GUTHRIDGE COURT NORCROSS, GA 30092 PH: (770) 449-5555 WWW.KAWNEER.COM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
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SINGLE SPAN ELEVATIONS



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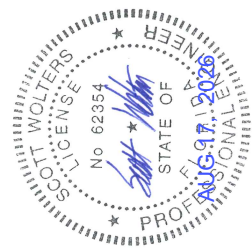
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG: 1600-IR-HVHZ

SECTION: 2
SHEET: 2 / 4

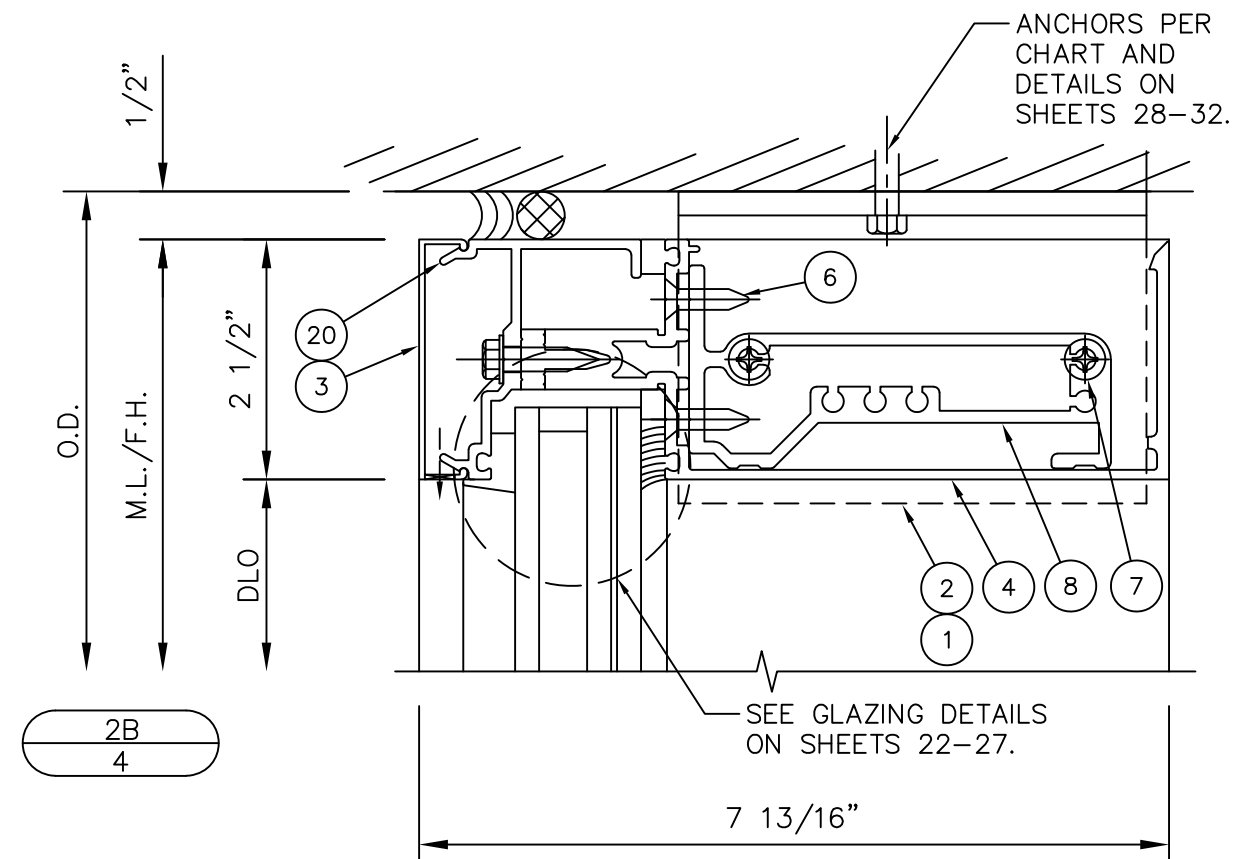
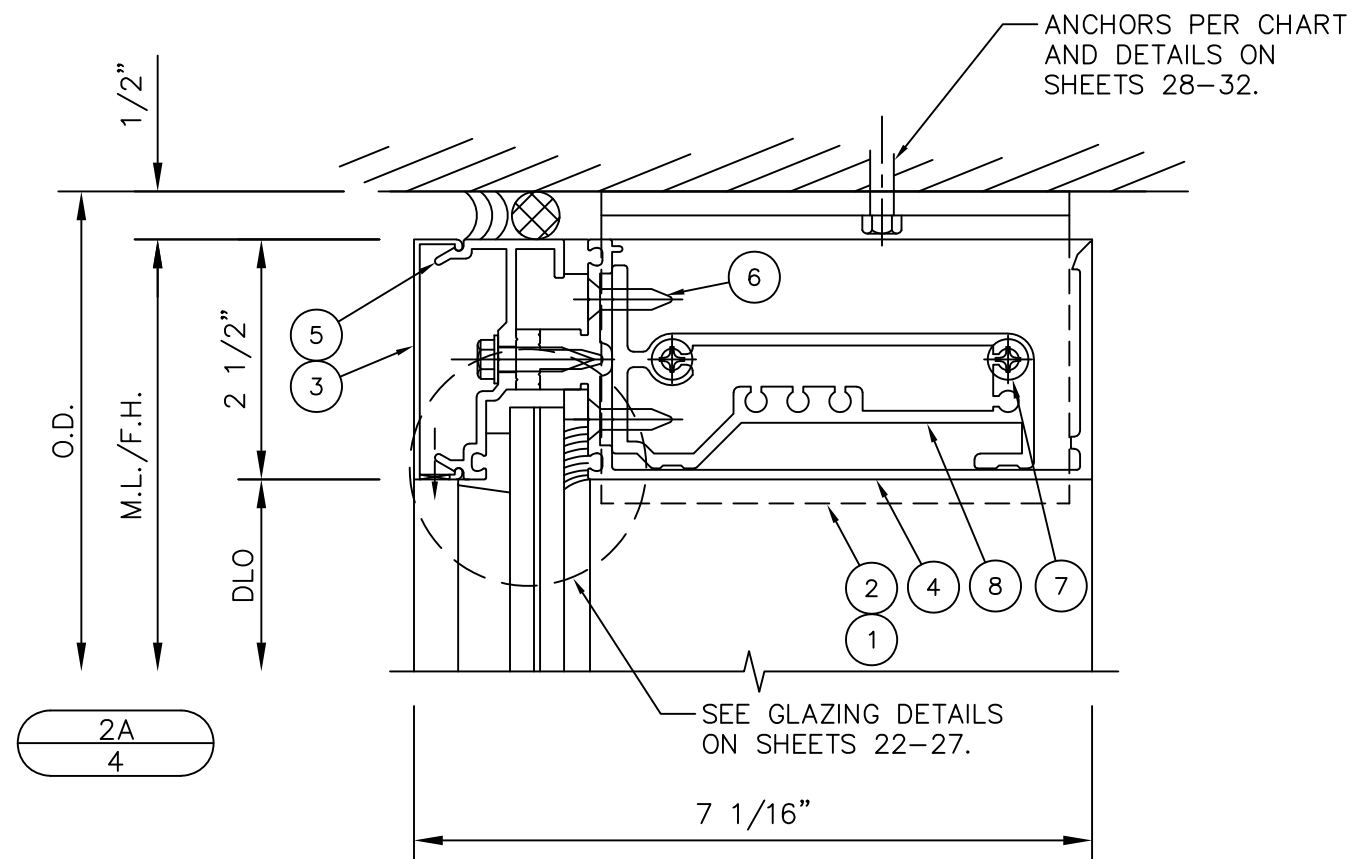
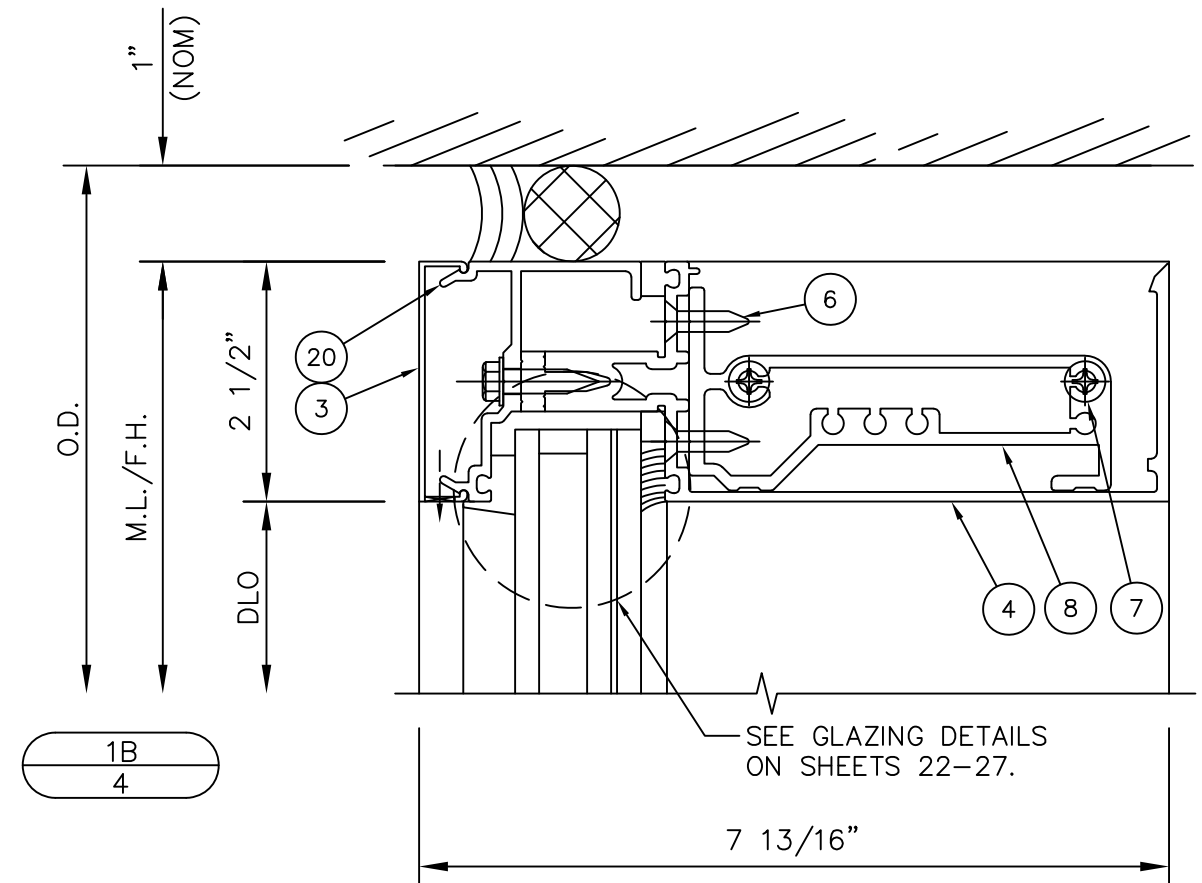
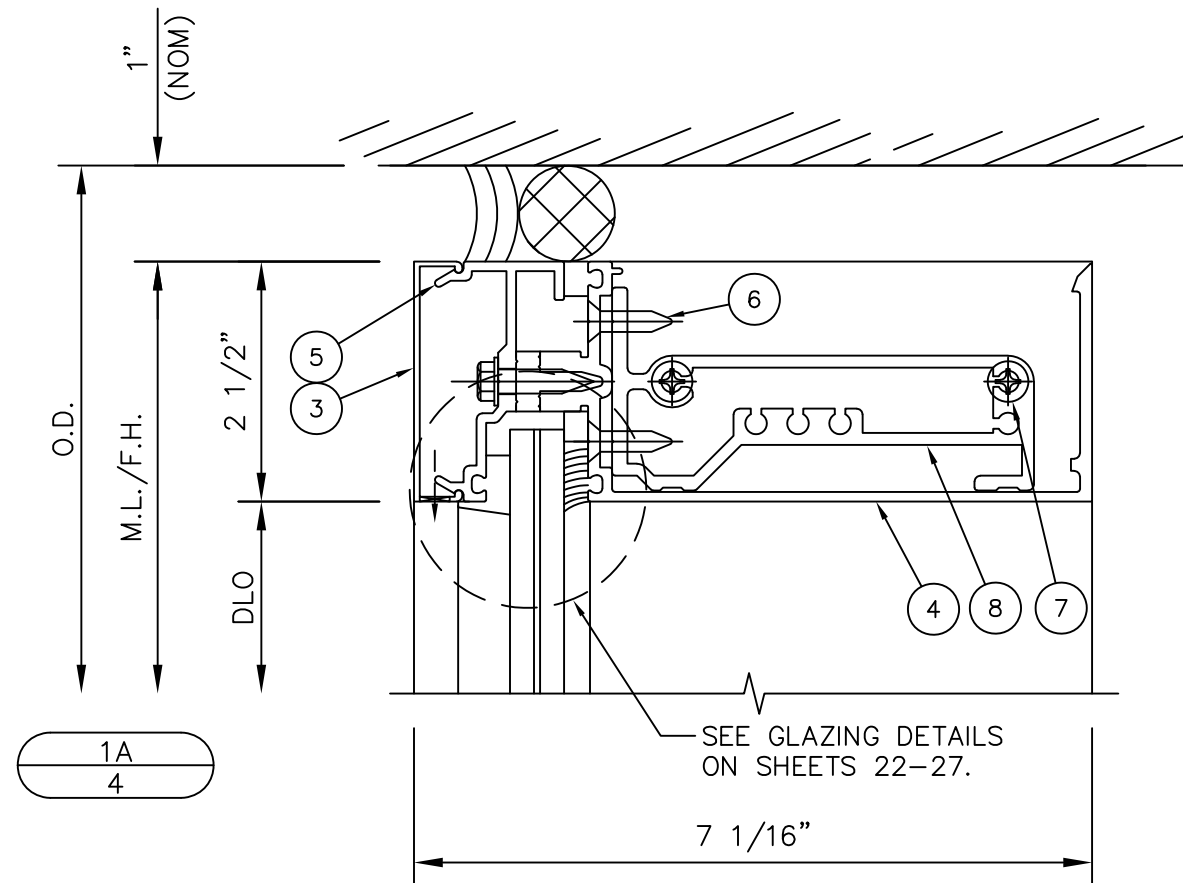


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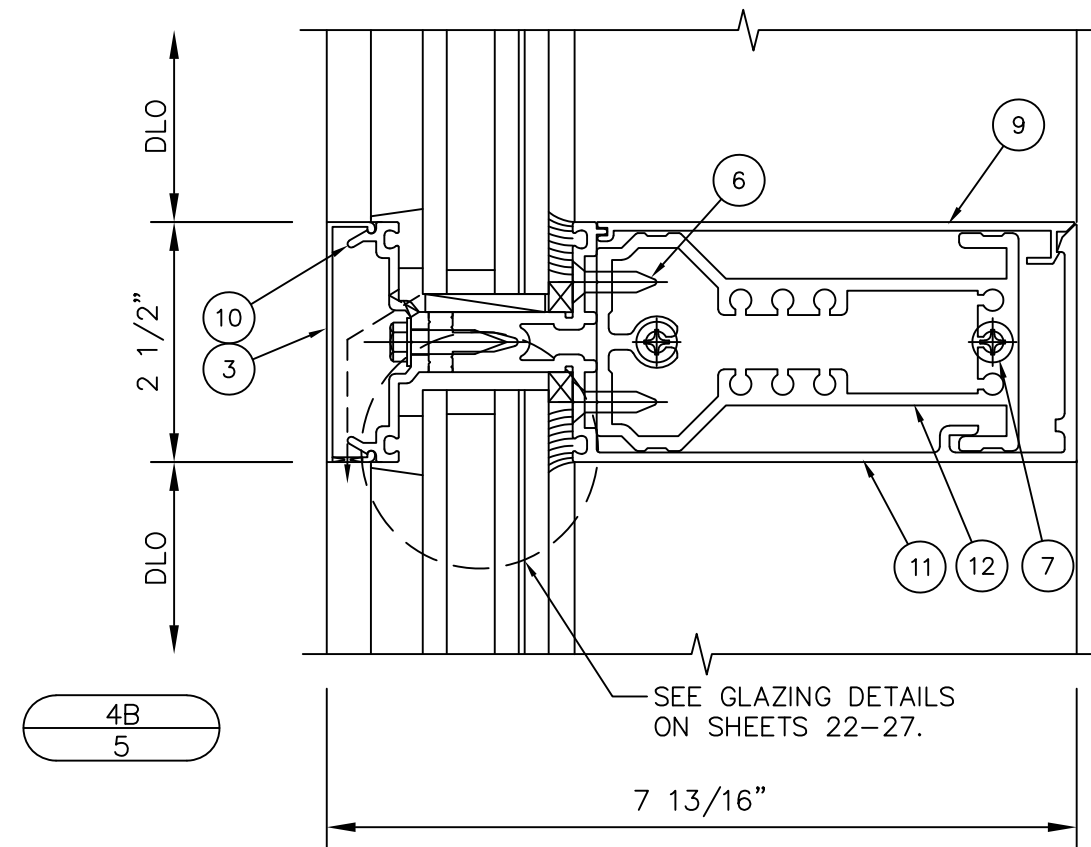
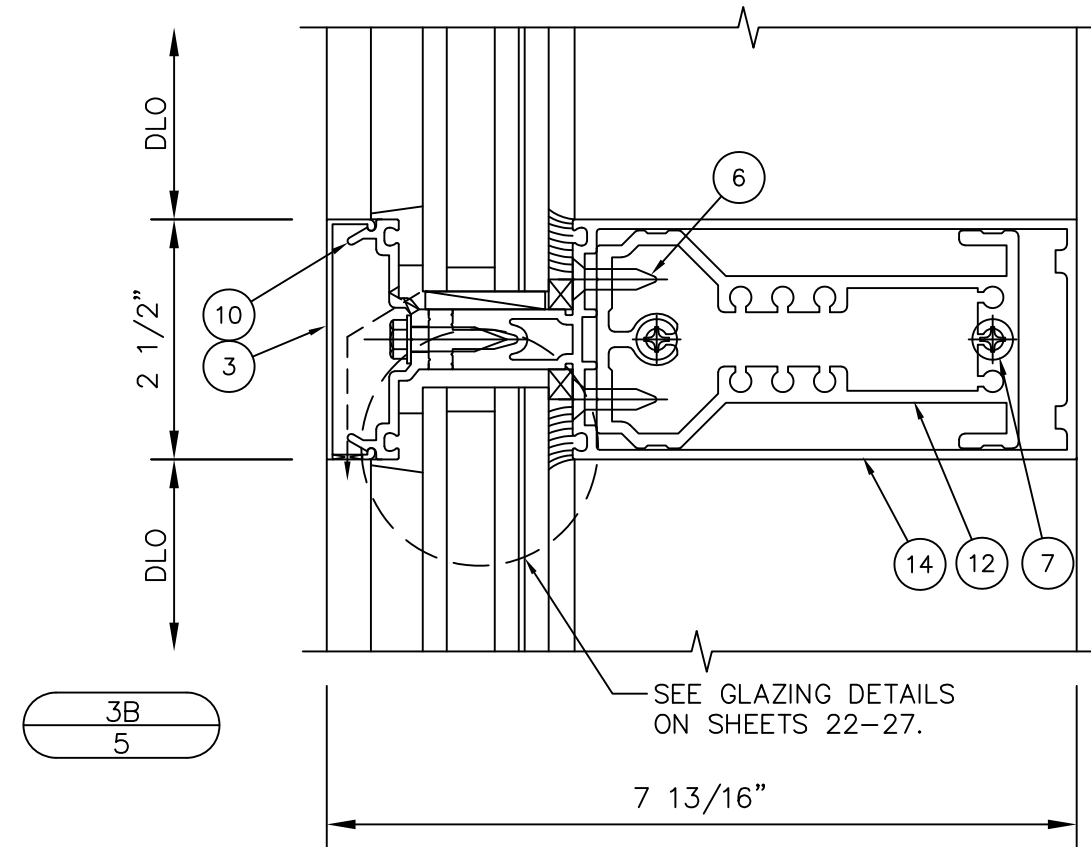
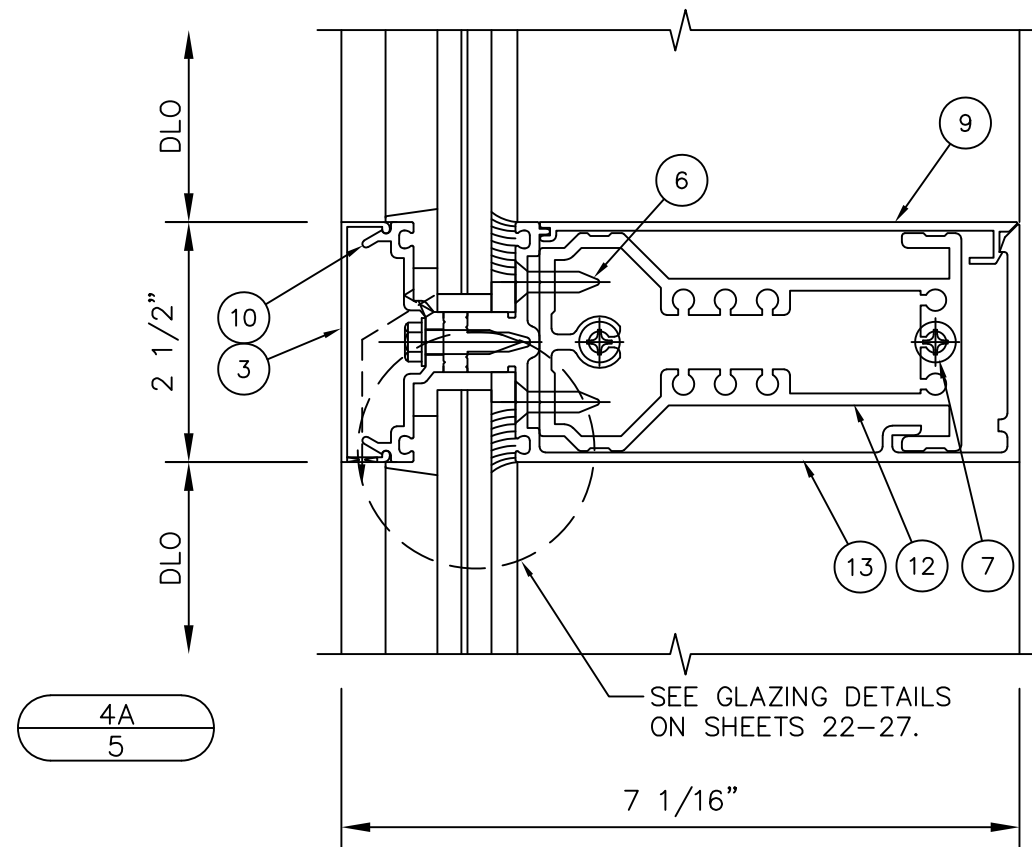
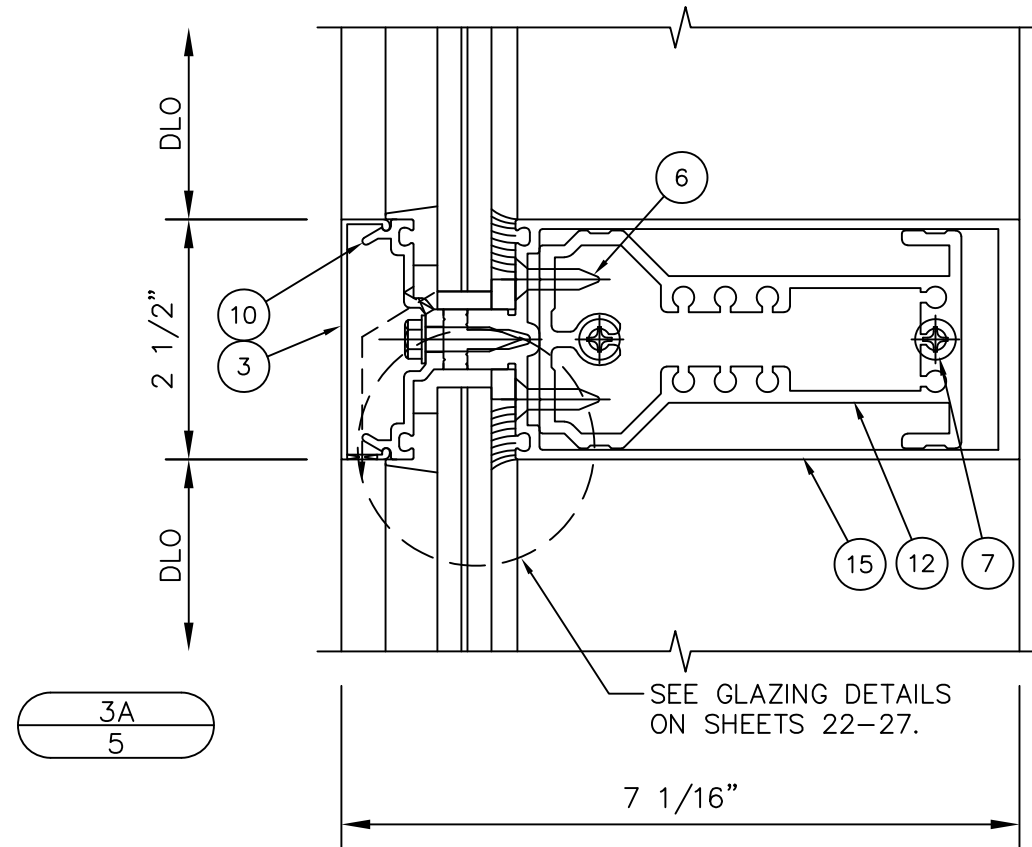
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REVISION	—	12/16/24
2023 CODE UPDATE	—	10/15/23
1ST SUBMITTAL	—	10/12/20
PRINTS ISSUED FOR	REV.#	DATE

HEAD DETAILS



SEAL:	SCOTT WALTERS FL PE# 62354 WALTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N. WEST PALM BEACH, FL 33412 (561) 225-1982				
PRODUCT:	1600 WALL SYSTEM 1 & 2				
DWG:	1600-IR-HVHZ				
SECTION:	3				
SHEET:	4 / 42				

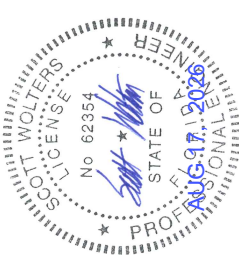
HORIZONTAL DETAILS



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
1521 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

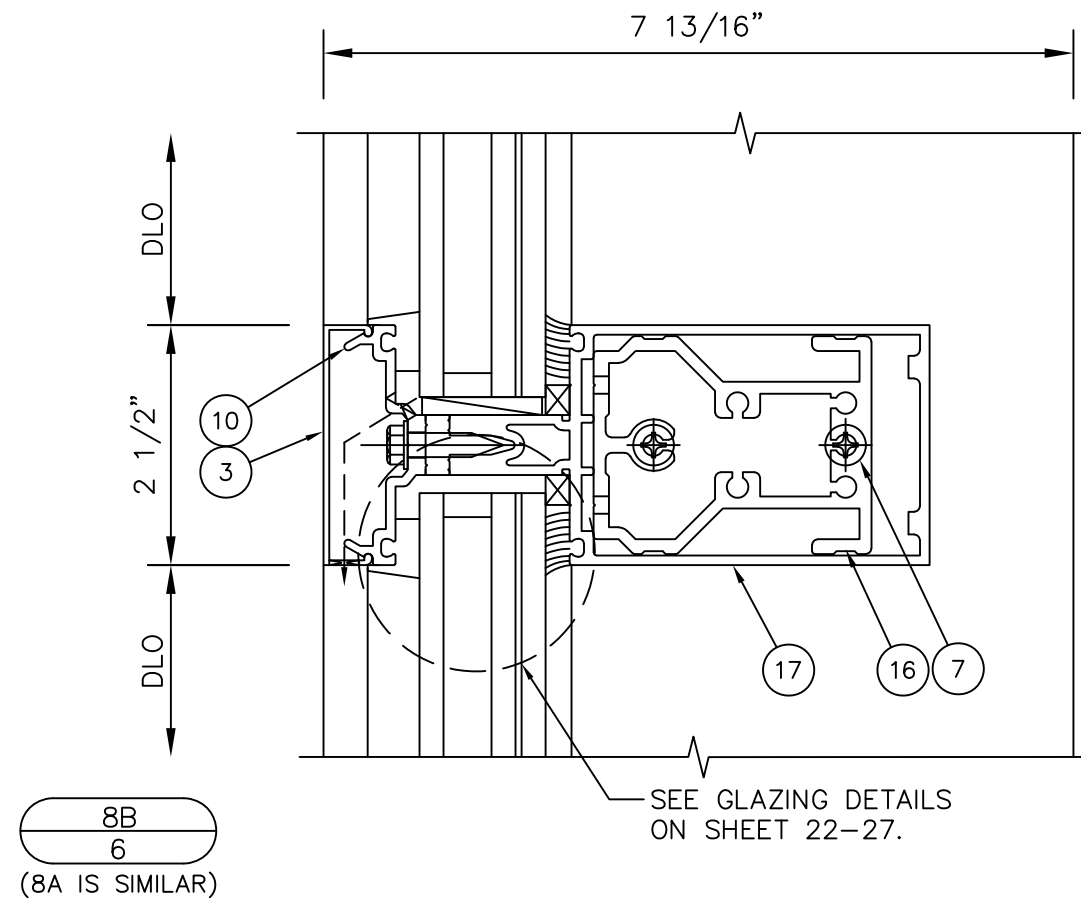
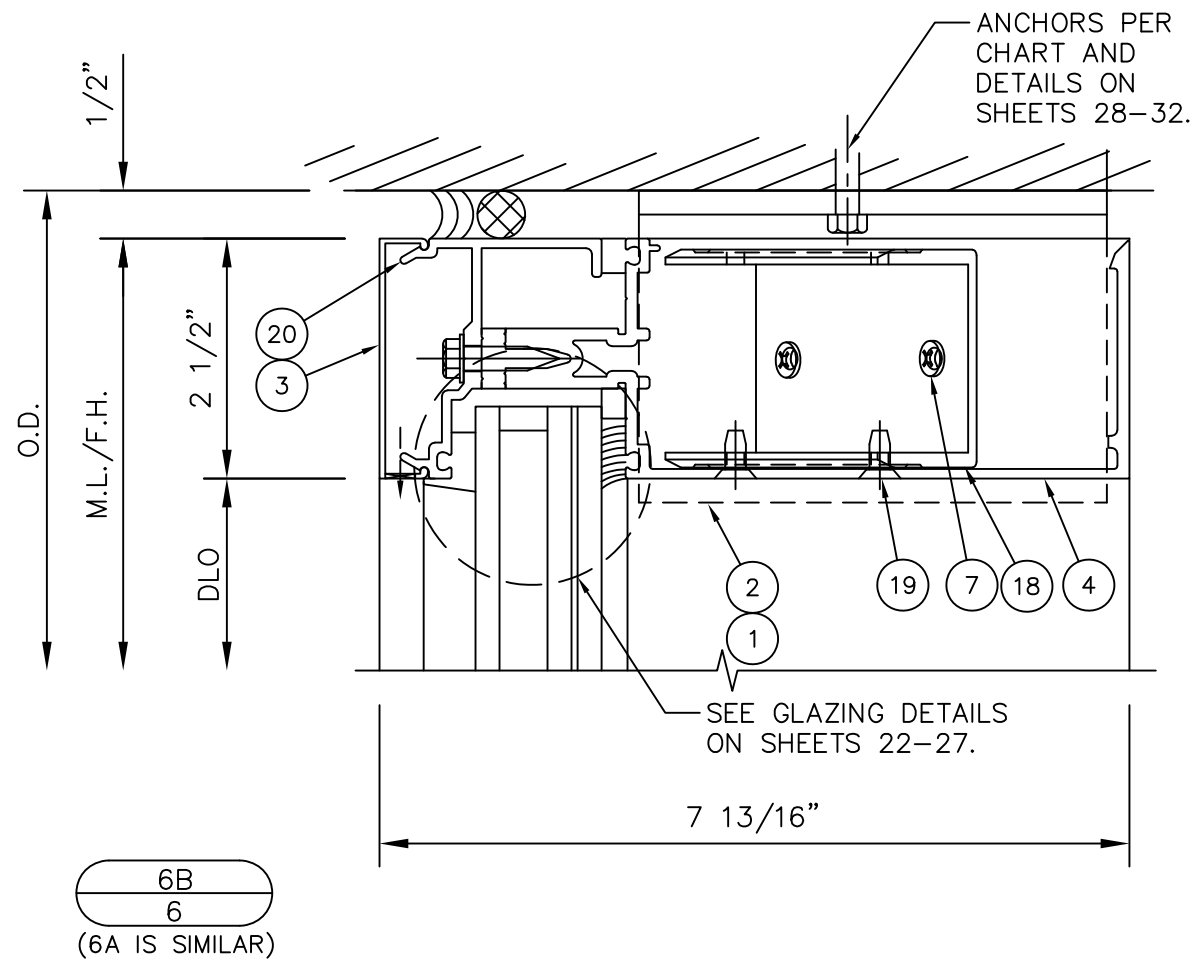
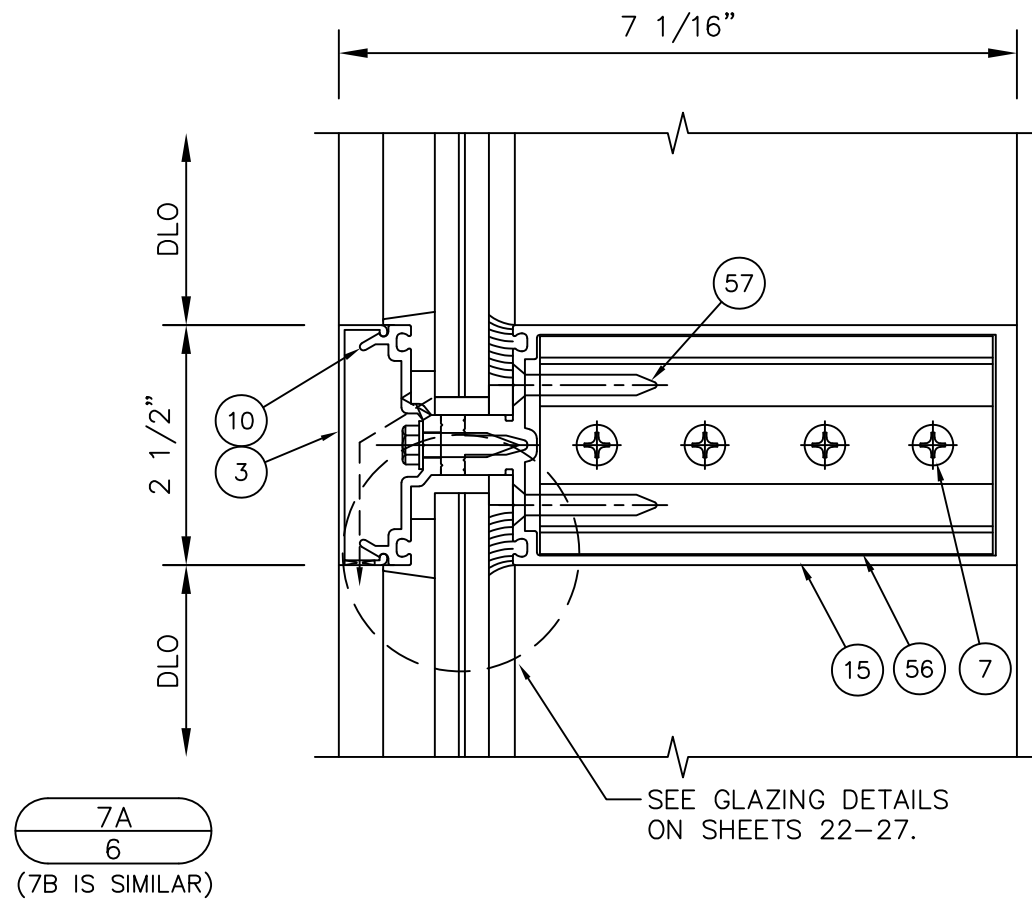
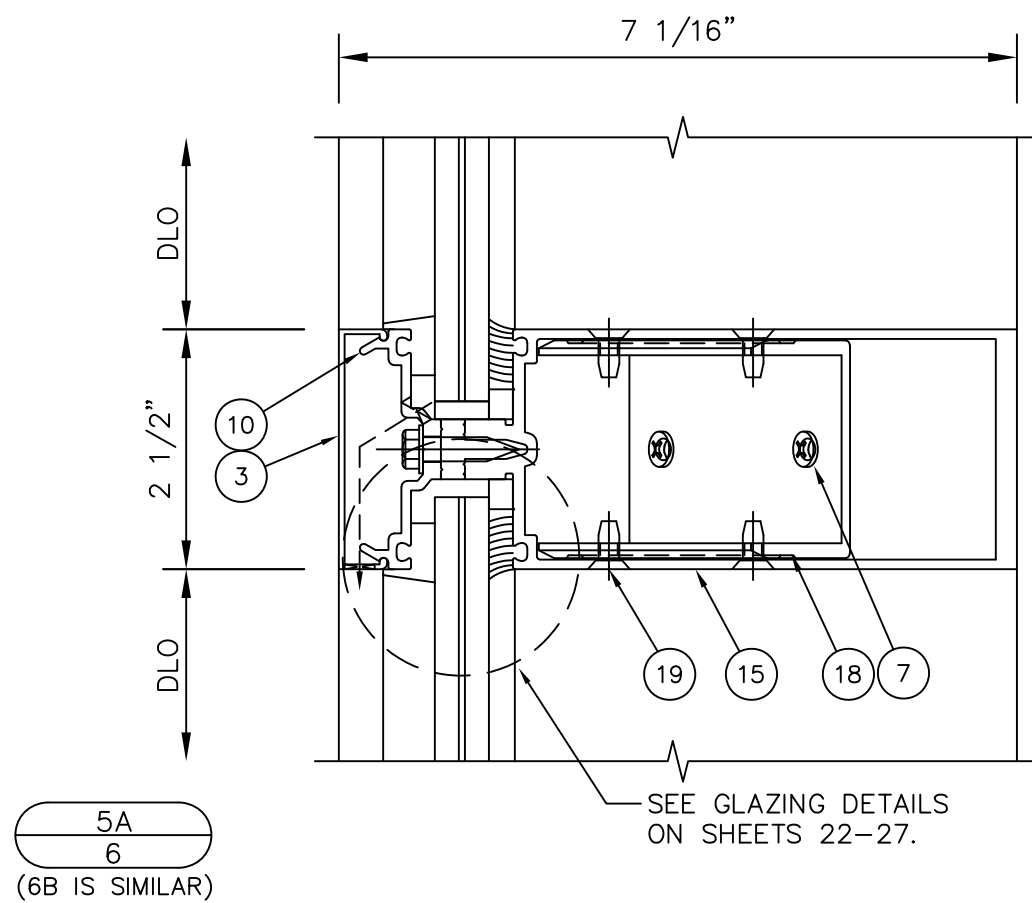


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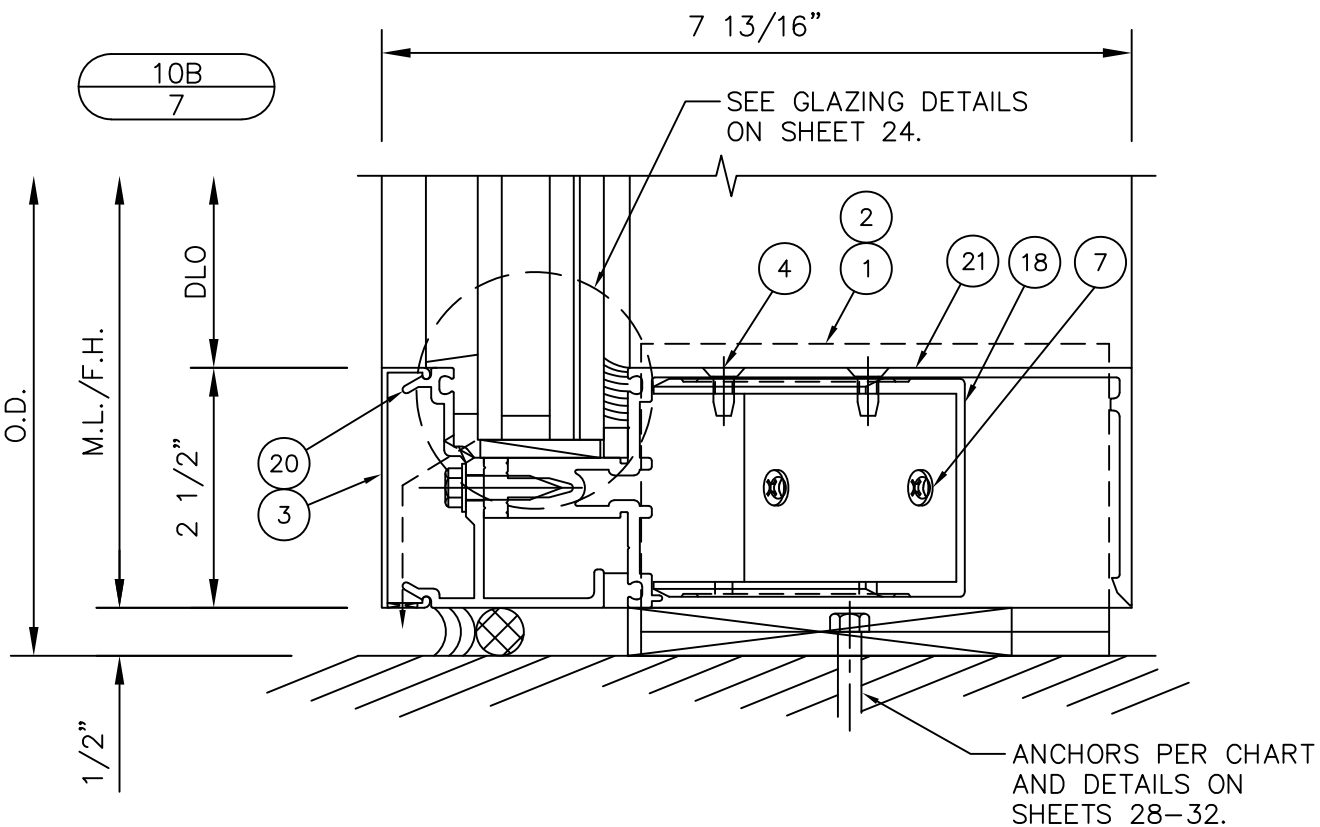
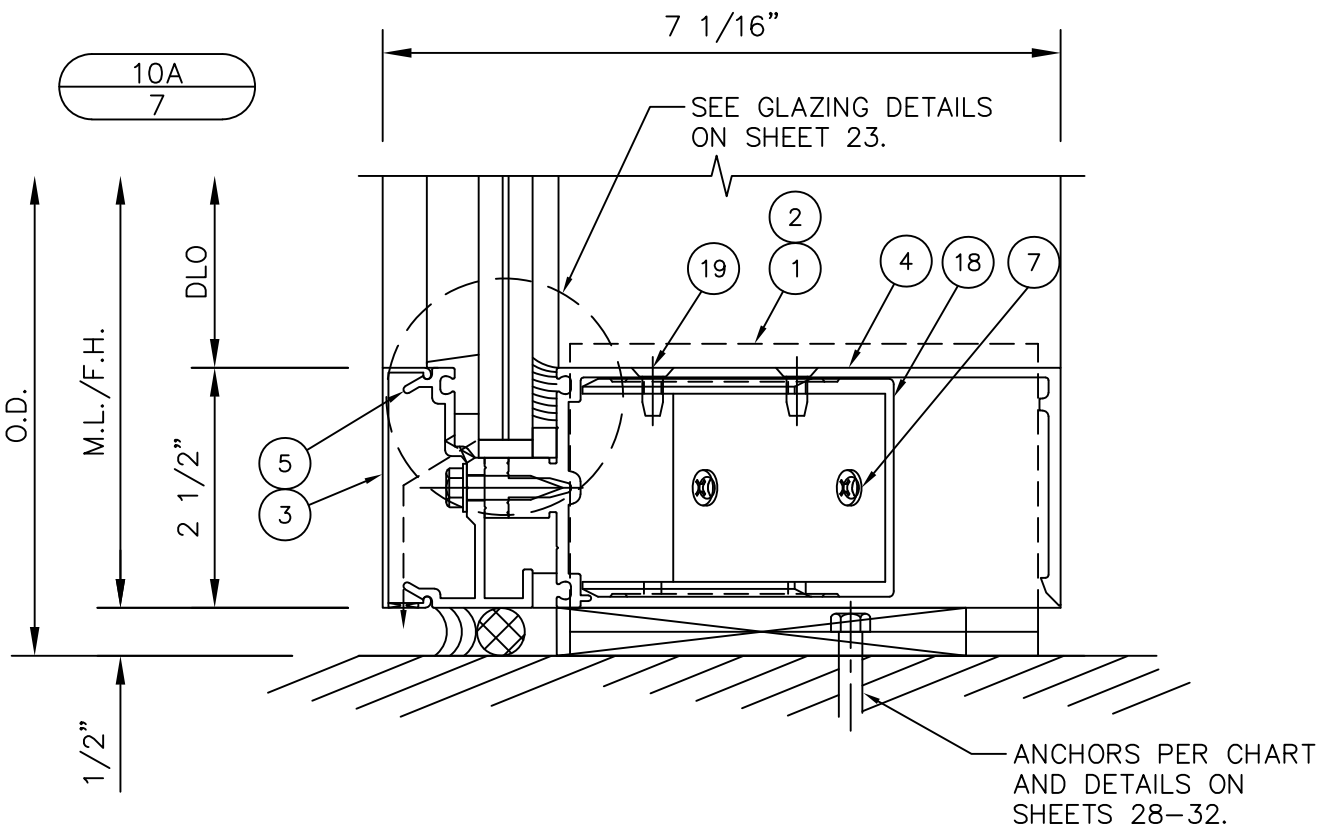
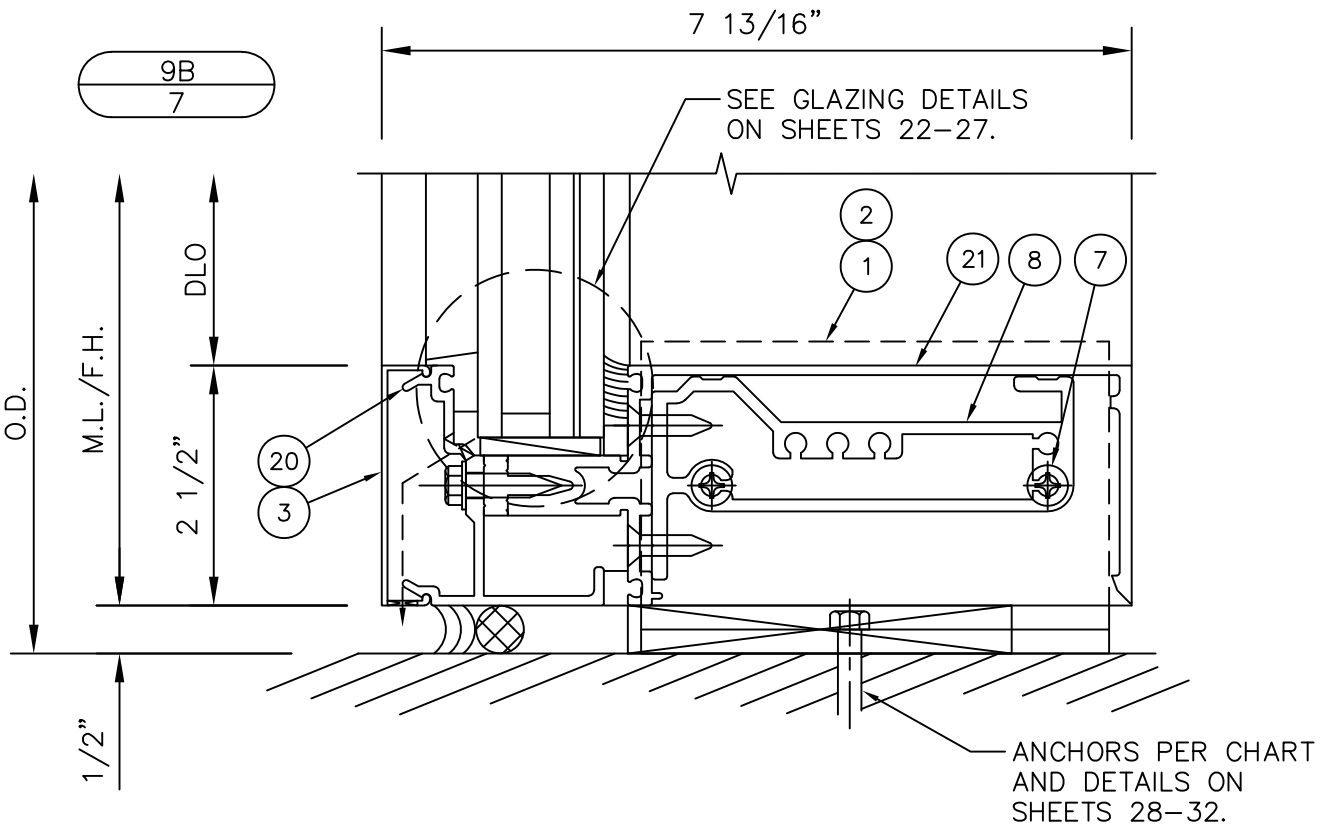
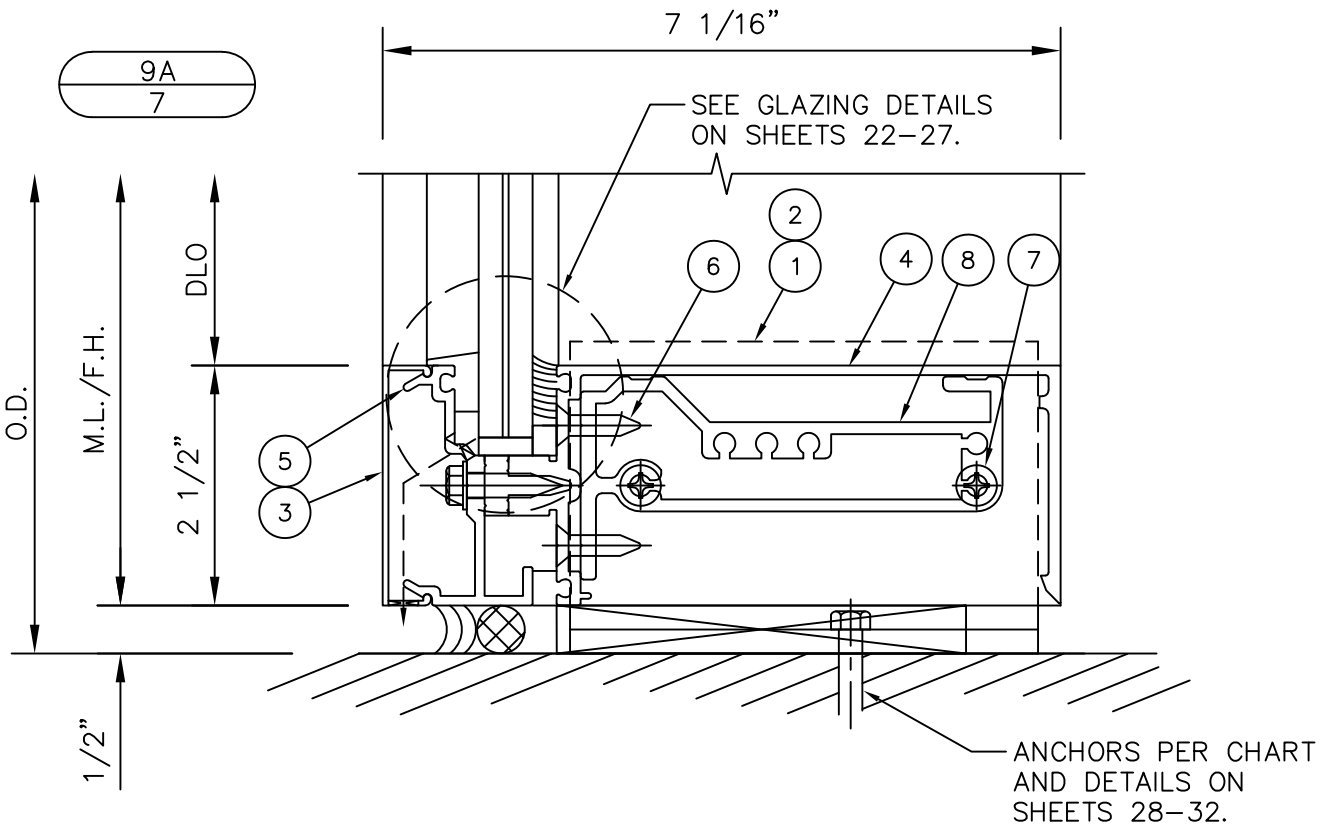
—	REVISION	12/16/24
—	2023 CODE UPDATE	10/15/23
—	1ST SUBMITTAL	10/12/20

HORIZONTAL DETAILS



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SEAL: SCOTT WALTERS FL PE# 62354 WALTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982			
PRODUCT:			
1600 WALL SYSTEM 1 & 2			
DWG:			
1600-IR-HVHZ			
SECTION:			
3			
SHEET:			
6 / 42			

SILL DETAILS



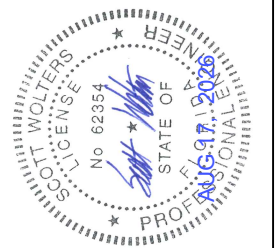
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KAWNEER
AN ARCONIC COMPANY

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NORCROSS, GA 30092

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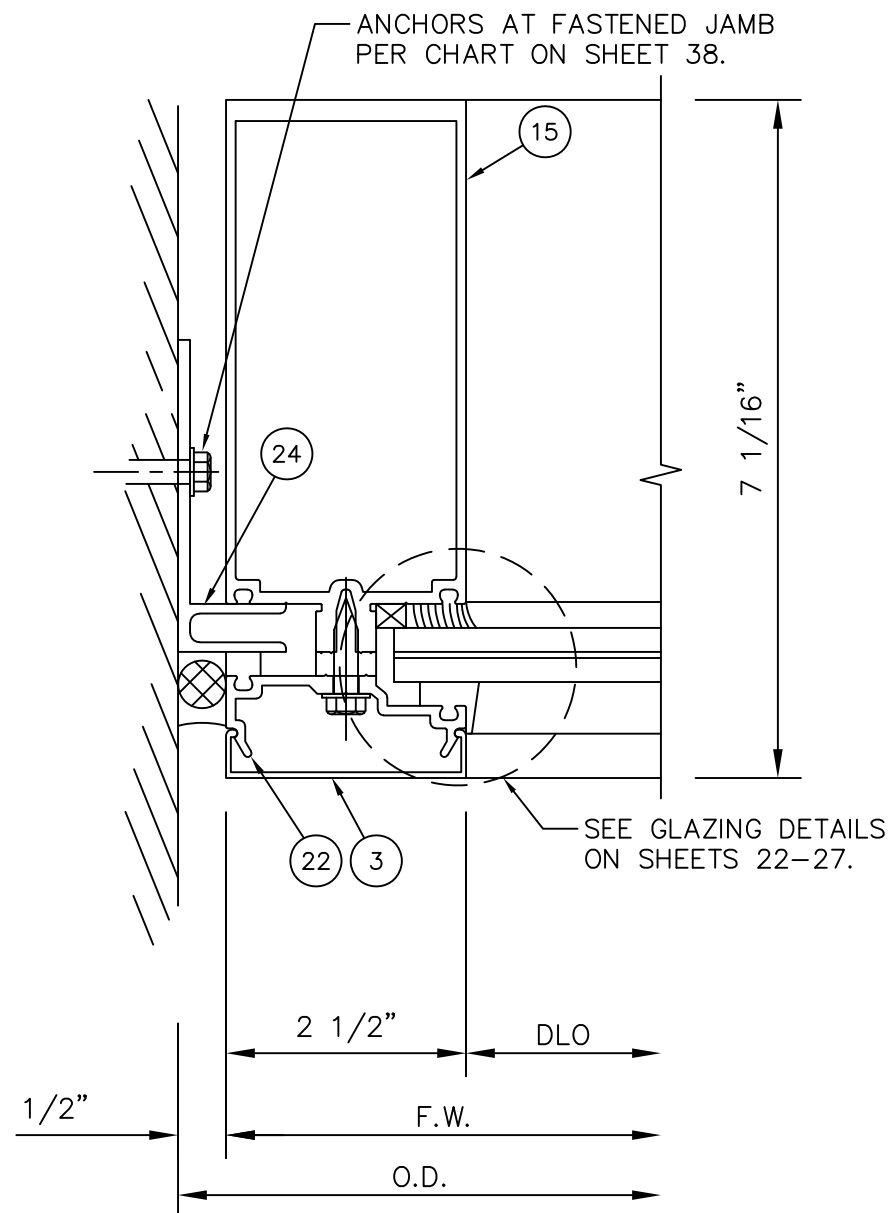
SEAL:

SCOTT WOLTERS
FL PE# 62354

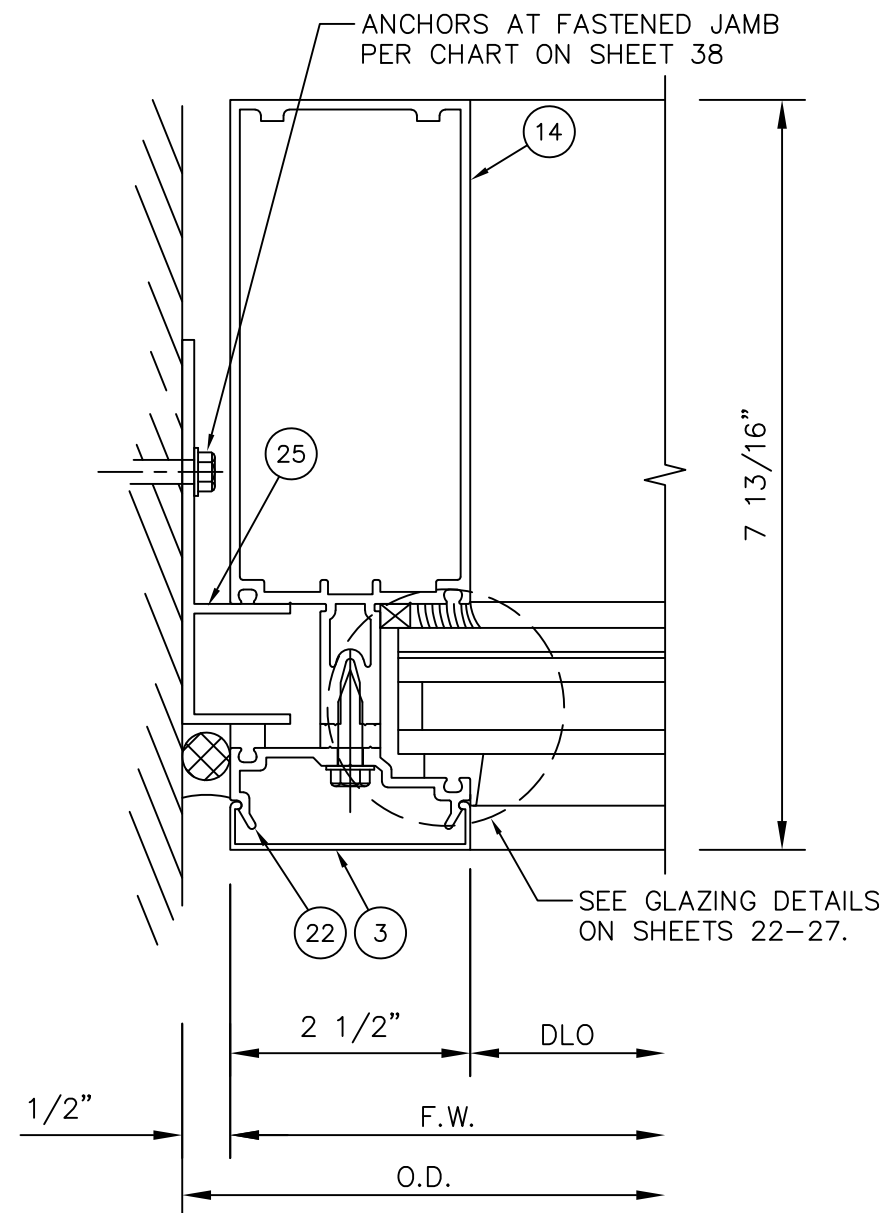
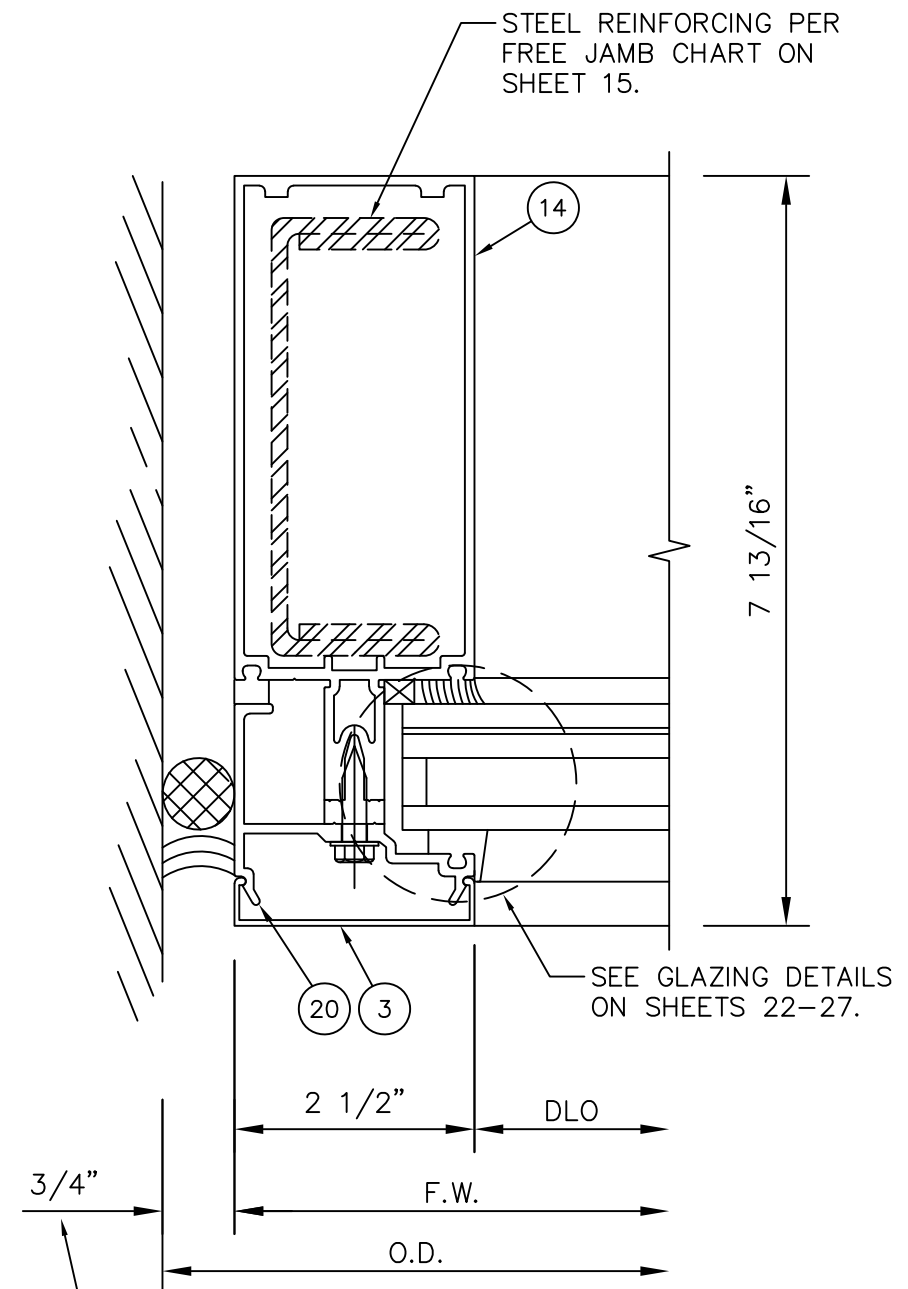
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	3
SHEET:	7/42

JAMB DETAILS



11A
8

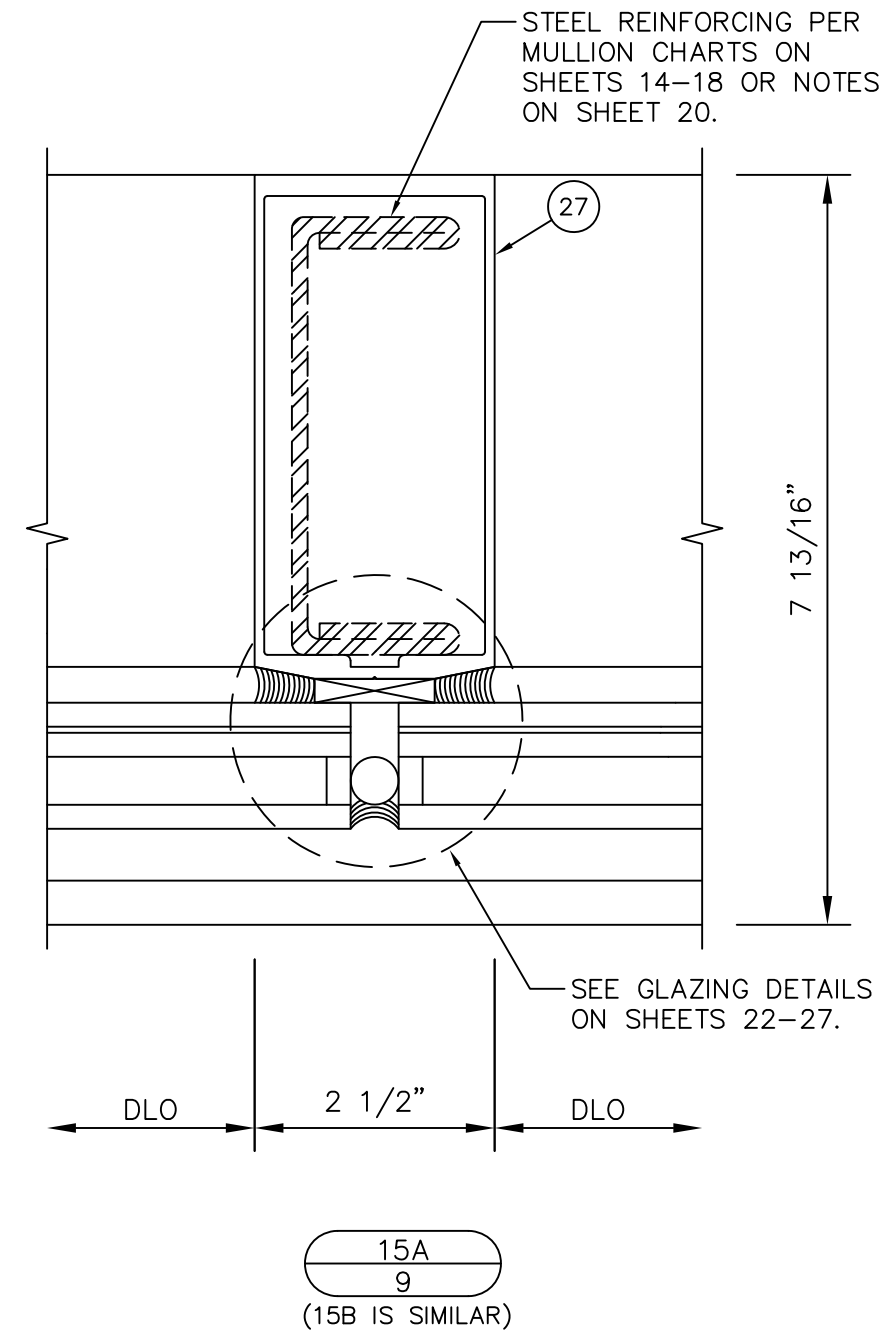
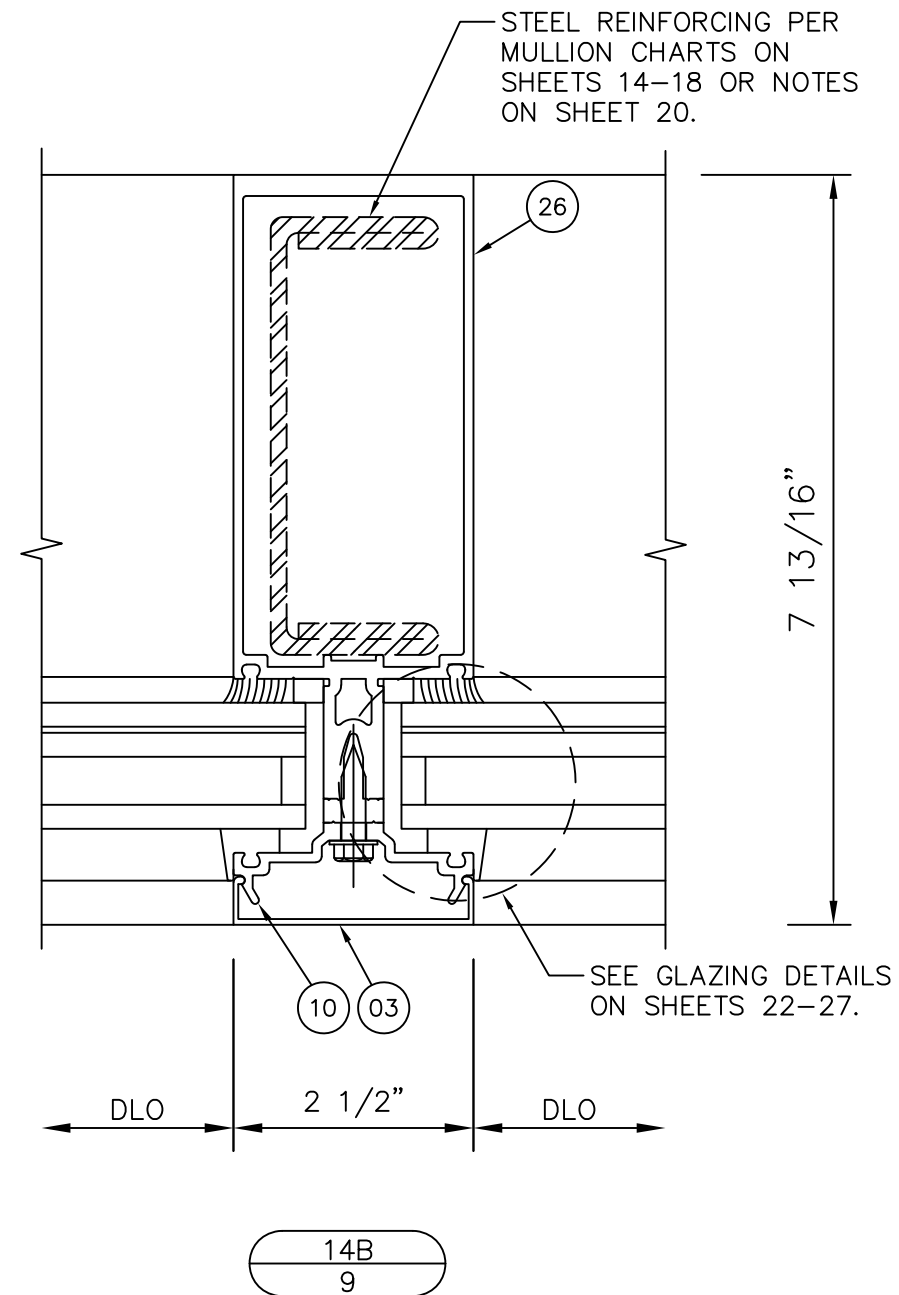
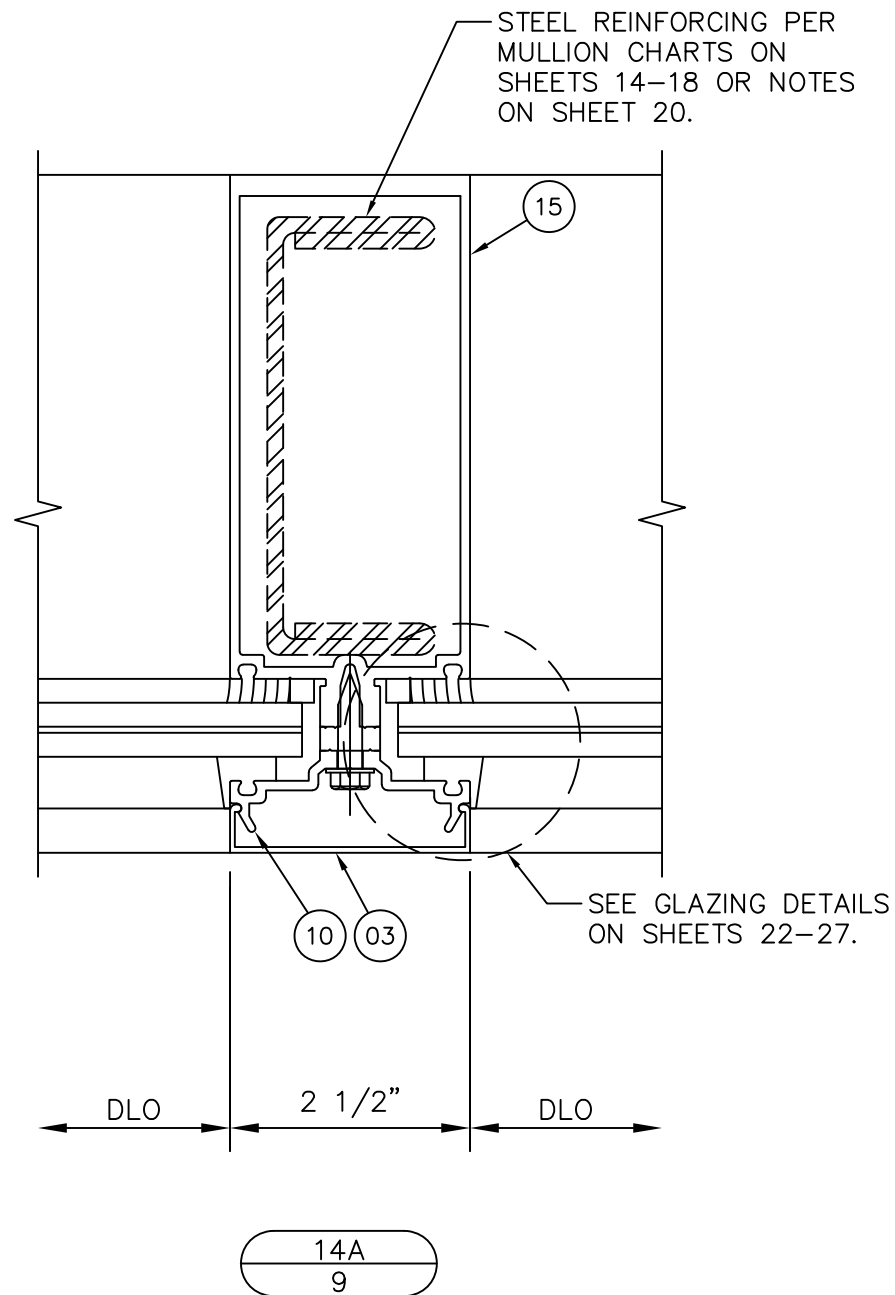

$$\frac{11B}{8}$$


12A
8
(12B IS SIMILAR)

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

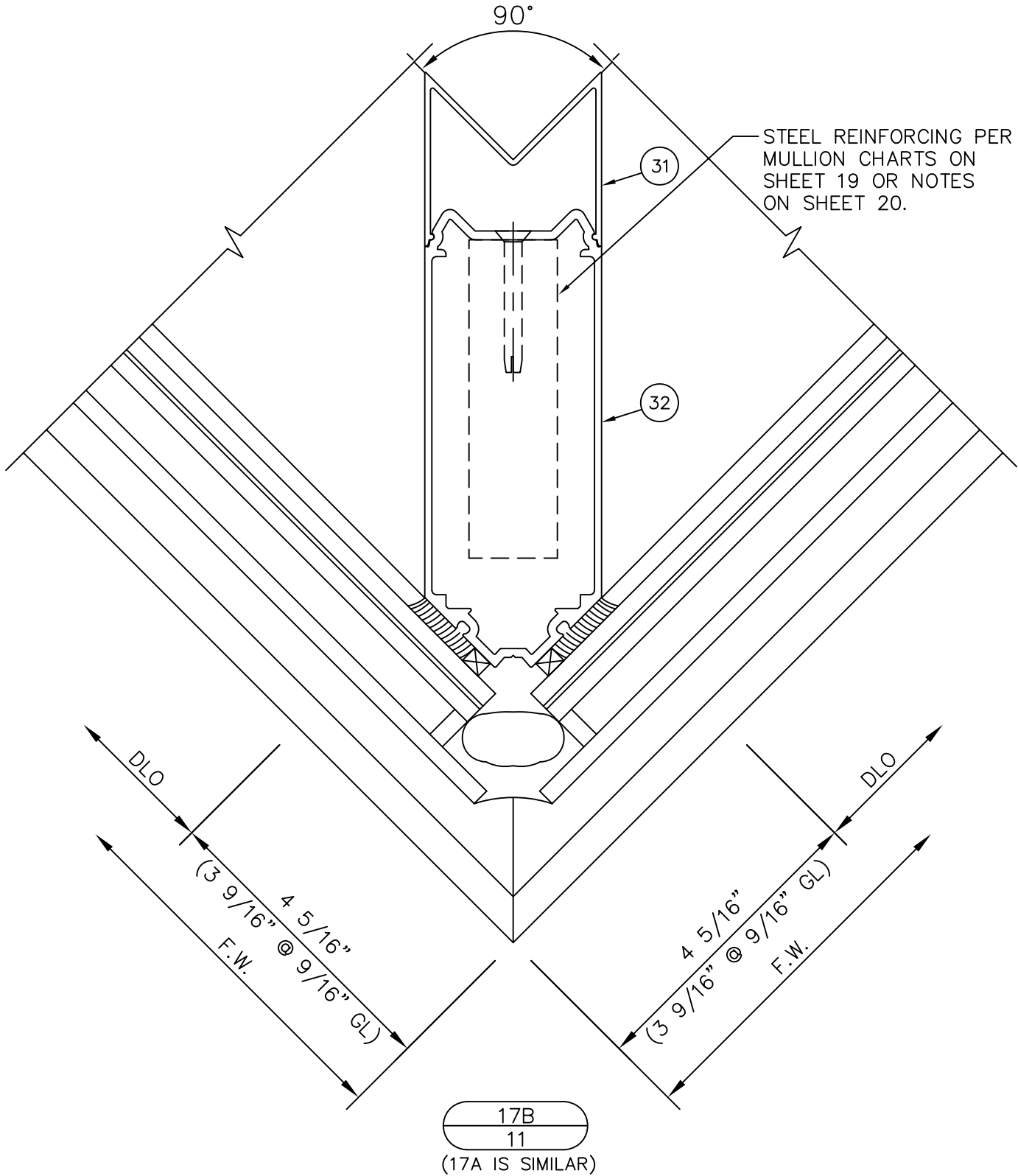
SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211, 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982			
PRODUCT: 1600 WALL SYSTEM 1 & 2			
DWG: 1600-IR-HVHZ			
SECTION:		3	
SHEET:		8/42	

MULLION DETAILS

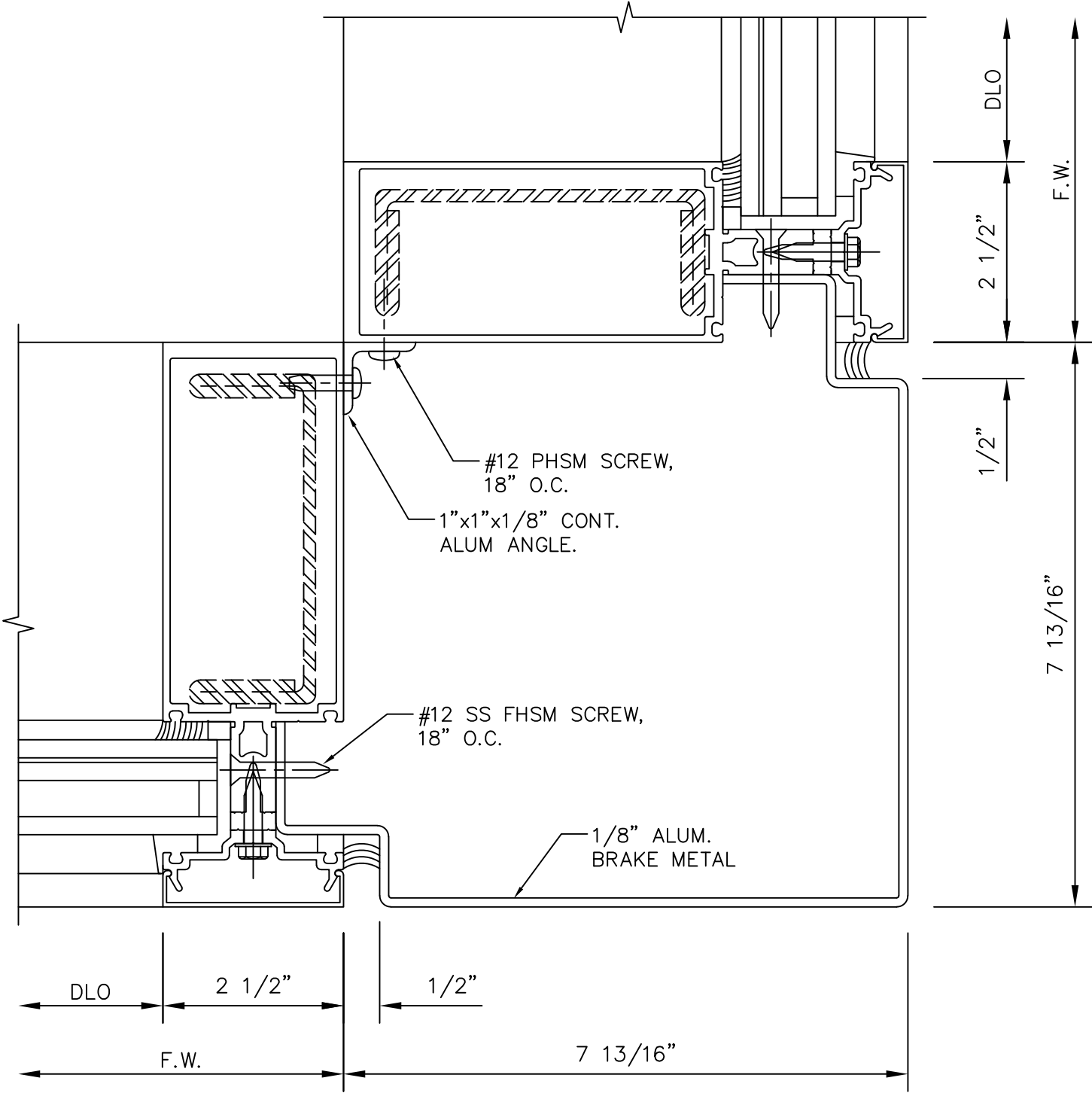


SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982 		555 GUTHRIDGE COURT NORCROSS, GA 30092 PH: (770) 449-5555 WWW.KAWNEER.COM		 KAWNEER AN ARCONIC COMPANY		—	—	—	—	—	—
PRODUCT: 1600 WALL SYSTEM 1 & 2		REVISION —		12/16/24		—	—	—	—	—	
DWG: 1600-IR-HVHZ		2023 CODE UPDATE —		10/15/23		—	—	—	—	—	
SECTION: 3		1ST SUBMITTAL —		10/12/20		—	—	—	—	—	
SHEET: 9/42		PRINTS ISSUED FOR —		REV.#		DATE	—	—	—	—	

SSG CORNER DETAILS



OPTIONAL TWO-MULLION CORNER.
ALLOWABLE MULLION HEIGHT, SPACING, AND DESIGN PRESSURE PER STANDARD MULLION CHARTS ON SHEETS 14,16-18, OR 20.



KAWNEER		AN ARCONIC COMPANY		PH: (770) 449-5555 WWW.KAWNEER.COM	
555 GUTHRIDGE COURT NORCROSS, GA 30092		REVISION		12/16/24	
		2023 CODE UPDATE		10/15/23	
		1ST SUBMITTAL		10/12/20	
		PRINTS ISSUED FDR		REV.#	
				DATE	

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

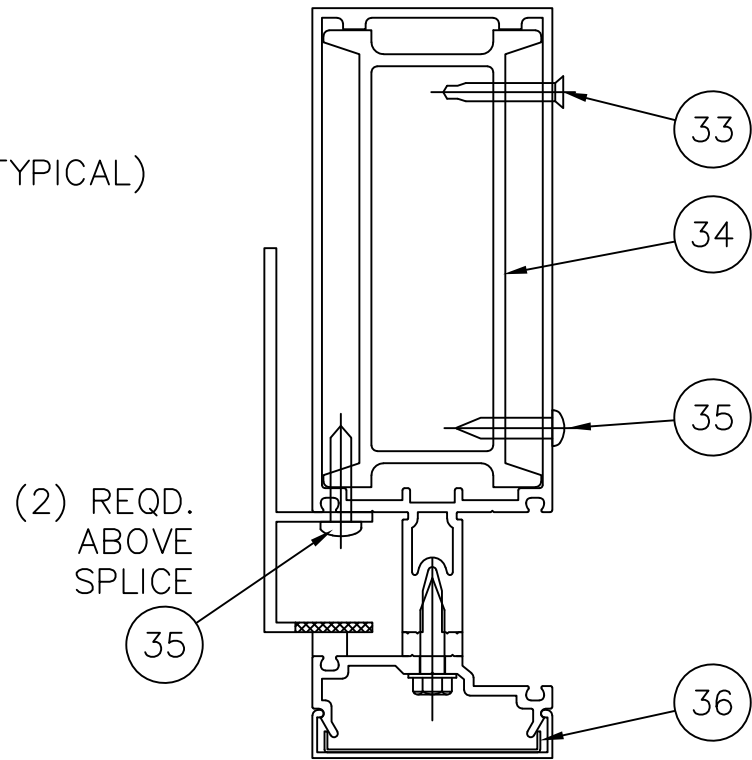
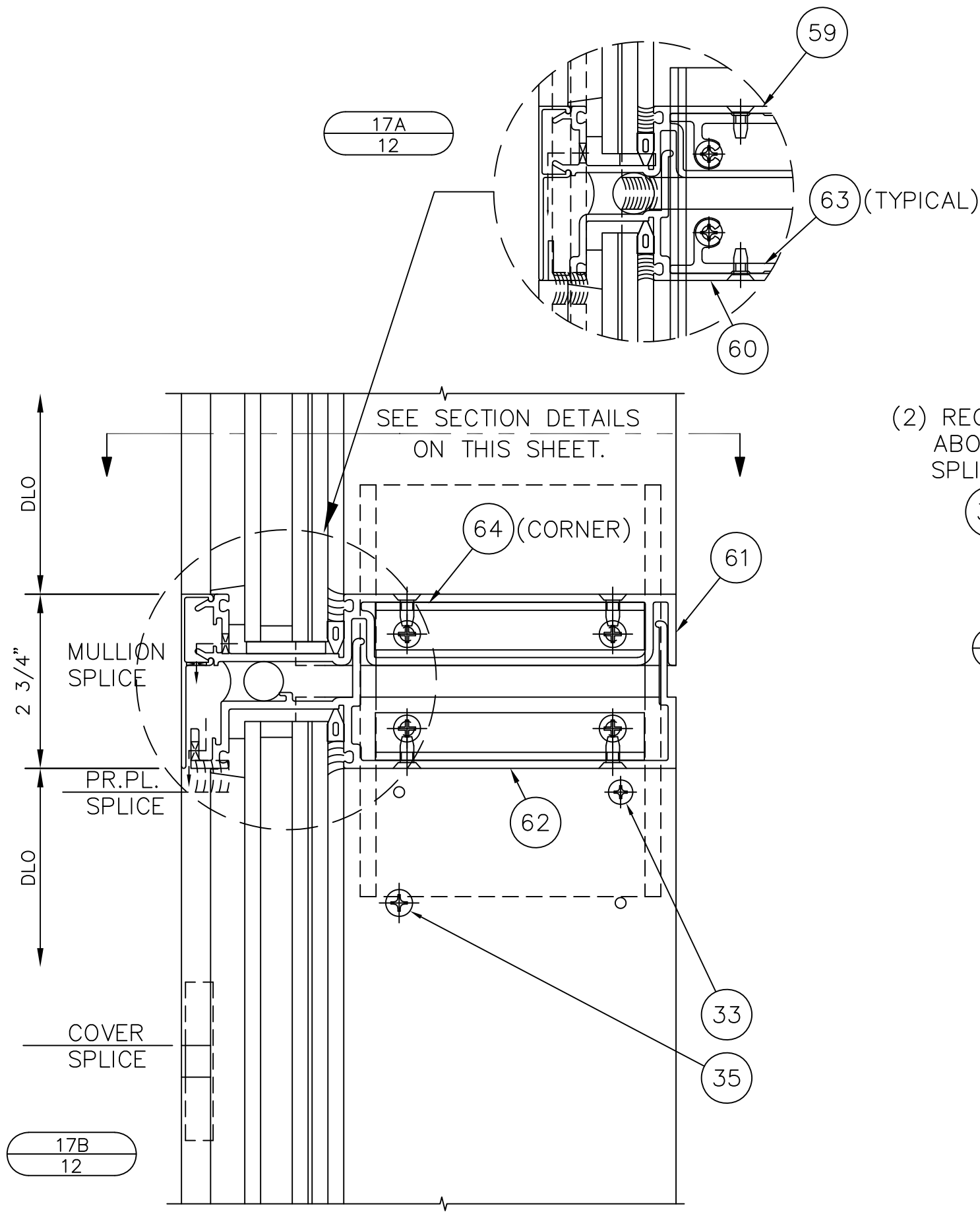
PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG:
1600-IR-HVHZ

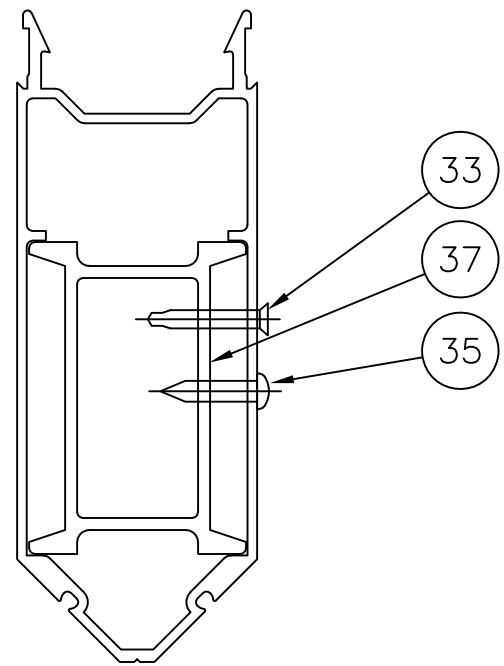
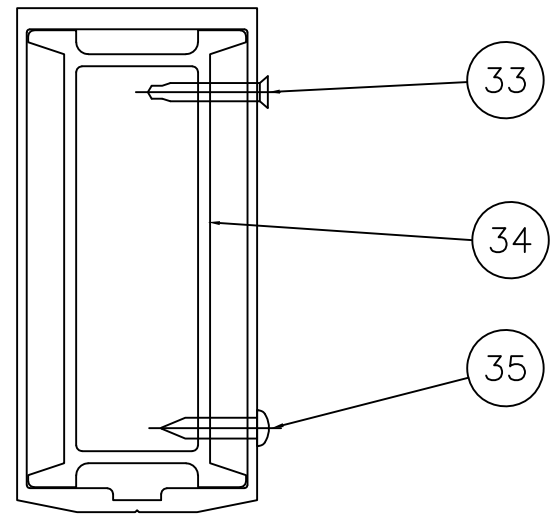
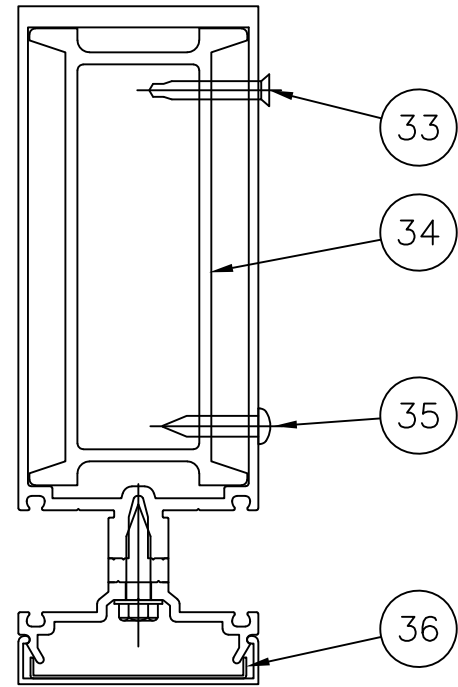
SECTION:
3

SHEET:
11/42

MULLION SPLICE DETAILS



SECTION AT SPLICE



12/16/24	10/15/23	10/12/20	DATE
REVISION	2023 CODE UPDATE	1ST SUBMITTAL	PRINTS ISSUED FDR
REV.#	REV.#	REV.#	REV.#

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SEAL:

SCOTT WALTERS
FL PE# 62354

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

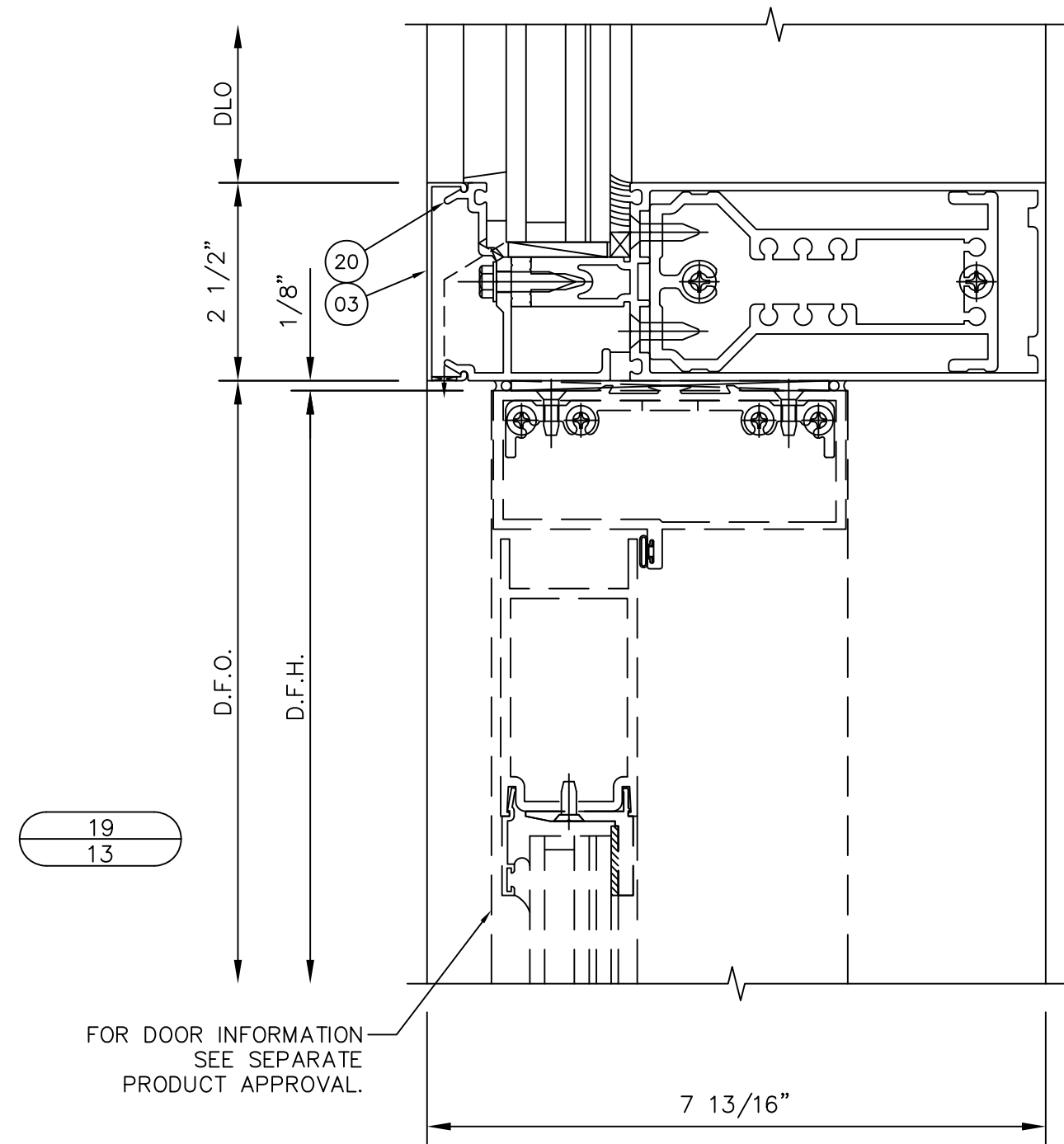
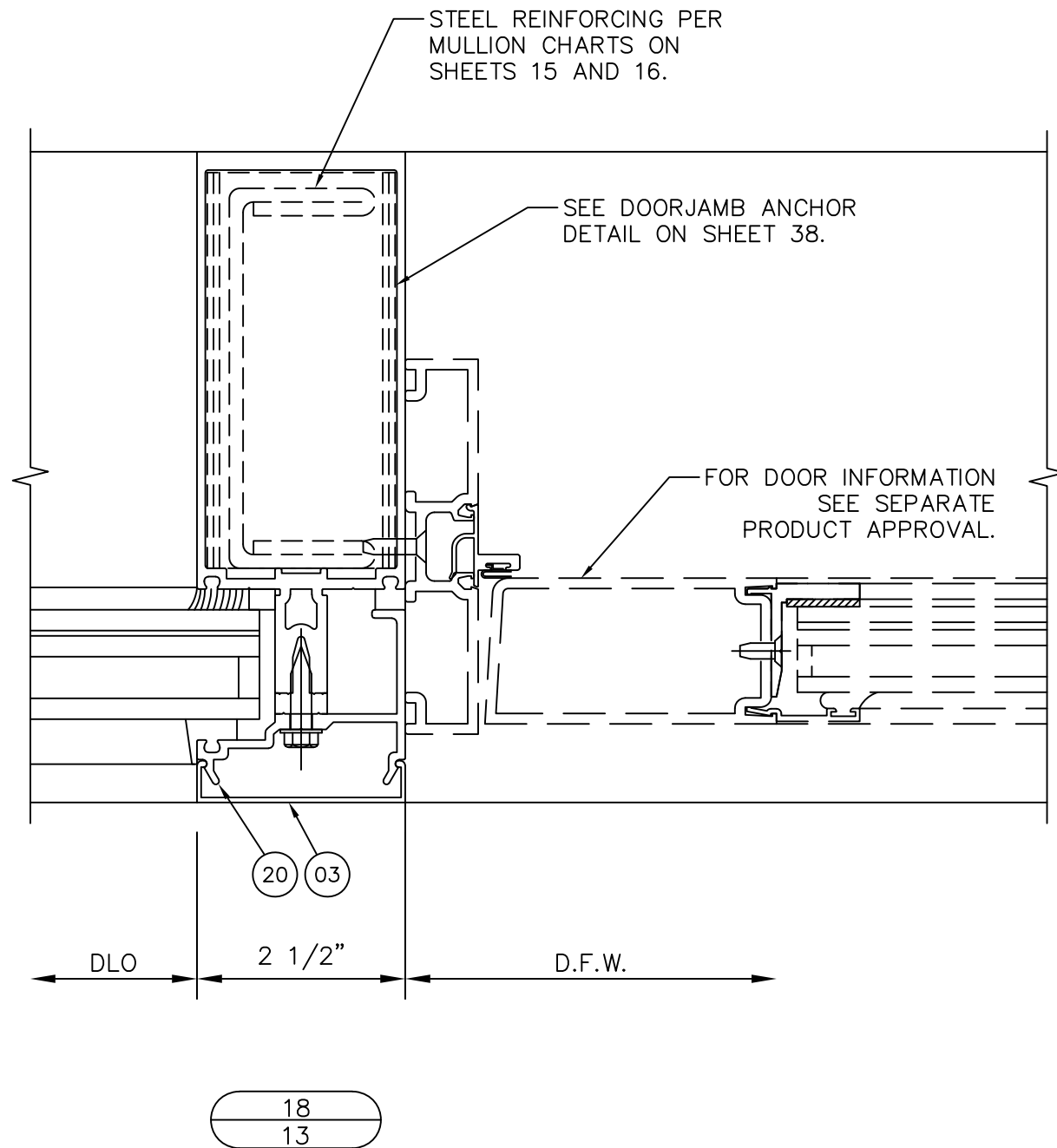
PRODUCT:
1600 WALL SYSTEM 1 & 2

DWG:
1600-IR-HVHZ

SECTION:
3

SHEET:
12/42

DOOR DETAILS



SEAL:

SCOTT WOLTERS
FL PE# 62354

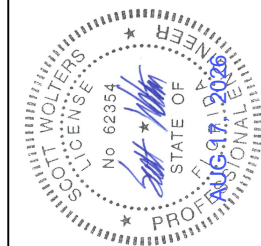
WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG:
1600-IR-HVHZ

SECTION:	3
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SHEET: 13/42



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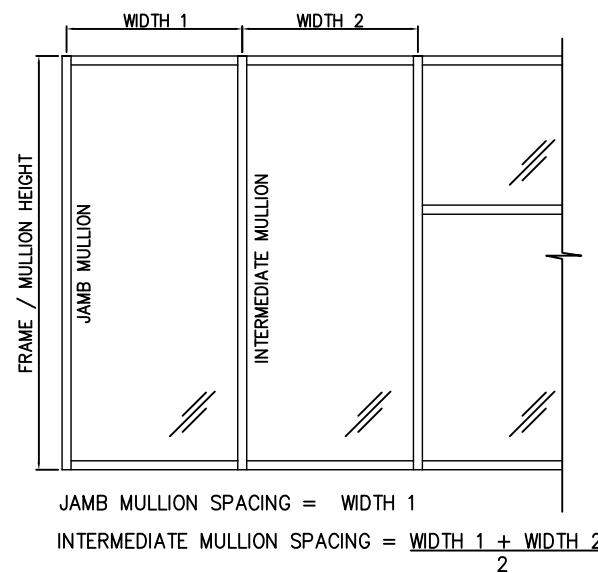
555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449-5555
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—	—	—
REVISION	—	12/16/24
2023 CODE UPDATE	—	10/15/23
1ST SUBMITTAL	—	10/12/20
PRINTS ISSUED FOR	REV.#	DATE

CAPTURED MULLIONS



CAPTURED MULLION CHART					
		MAX. DESIGN PRESSURE (psf)			
		M1		M2	
HEIGHT (in)	WIDTH (in)	(+)	(-)	(+)	(-)
72	61	100	130	100	130
	72	84.7	110.1	84.7	110.1
	84	72.6	94.4	72.6	94.4
	96	63.2	82.2	63.5	82.6
84	54	97.1	118.6	98	127
	61	97.1	118.6	98	127
	72	82.3	100	83	107.6
	83	71.4	87.1	72	93.3
	96	-	-	62.3	80.7
96	54	94.3	107.1	96	124.1
	61	94.3	107.1	96	124.1
	72	79.9	90.7	81.3	105.1
	84	-	-	69.7	90.1
	96	-	-	61	78.9
108	54	91.4	95.7	94	121.7
	61	91.4	95.7	94	121.7
	64	87.1	91.2	89.6	116
	72	-	-	79.6	103.1
	84	-	-	68.3	88.4
	89	-	-	64.4	83.4
114	36	90	90	93	119.6
	48	90	90	93	119.6
	61	90	90	93	119.6
	72	-	-	78.8	101.3
	85	-	-	66.7	85.8



SHADED VALUES ARE APPROVED FOR
USE OUTSIDE OF THE HVHZ ONLY

CAPTURED MULLION CHART												
		MAX. DESIGN PRESSURE (psf)										
		M1		M2		M3		M4		M5		
HEIGHT (in)	WIDTH (in)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	
114	61	90	90	93	119.6	93	127	93	127	93	127	
	72	-	-	78.8	101.3	93	110.6	93	110.6	93	110.6	
	85	-	-	66.7	85.8	93	93.6	93	93.6	93	93.6	
	88 1/2	-	-	-	-	90	90	90	90	90	90	
	96	-	-	-	-	-	-	83	83	83	83	
123	48	90	90	91.5	127	91.5	127	91.5	127	91.5	127	
	52	84	84	91.5	127	91.5	127	91.5	127	91.5	127	
	56 3/8	77.5	77.5	91.5	127	91.5	127	91.5	127	91.5	127	
	60	-	-	91.5	119.3	91.3	127	91.3	127	91.3	127	
	68 3/8	-	-	83.2	108.5	90.9	127	90.9	127	90.9	127	
	78 3/4	-	-	69.7	90.9	90.2	94.7	90.2	94.7	90.2	94.7	
	82	-	-	-	-	90	90	90	90	90	90	
	86 1/2	-	-	-	-	-	-	85.3	85.3	85.3	85.3	
96	-	-	-	-	-	-	76.9	76.9	76.9	76.9		
132	42	84.2	84.2	90	127	90	127	90	127	90	127	
	48	73.6	73.6	90	112.5	90	127	90	127	90	127	
	52 1/2	67.3	67.3	90	102.8	90	127	90	127	90	127	
	60	-	-	90	90	90	114.4	90	114.4	90	114.4	
	66	-	-	81.8	81.8	90	104	90	104	90	104	
	73 1/2	-	-	73.5	73.5	90	93.3	90	94.5	90	94.5	
	76 1/4	-	-	-	-	90	90	90	91	90	91	
	80 1/2	-	-	-	-	-	-	84	85.5	84	85.5	
	88	-	-	-	-	-	-	73.5	76	73.5	76	
96	-	-	-	-	-	-	62.2	65.8	62.2	65.8		
147	36	71.1	71.1	90	127	90	127	90	127	90	127	
	42	61	61	90	110	90	127	90	127	90	127	
	47	54.5	54.5	90	98.3	90	127	90	127	90	127	
	60	-	-	77	77	90	102.9	90	102.9	90	102.9	
	66	-	-	70	70	90	93.5	90	93.5	90	93.5	
	68 5/8	-	-	-	-	90	90	90	90	90	90	
	72 1/4	-	-	-	-	-	-	84.3	85	84.3	85	
	80	-	-	-	-	-	-	72.1	74.4	72.1	74.4	
89	-	-	-	-	-	-	58	62	58	62		
156	36	59.5	59.5	90	107.4	90	127	90	127	90	127	
	41 1/4	51.9	51.9	90	93.7	90	125.3	90	126.2	90	126.2	
	44 1/2	48.1	48.1	86.8	86.8	90	116.1	90	117	90	117	
	54	-	-	71.6	71.6	90	95.7	90	96.4	90	96.4	
	62	-	-	62.3	62.3	83.2	83.2	83.2	84	83.2	84	
	64 1/2	-	-	-	-	80	80	80	80.7	80	80.7	
	72	-	-	-	-	-	-	67.7	72.3	67.7	72.3	
84	-	-	-	-	-	-	58	62	58	62		
168	36	47.6	47.6	86	86	90	114.9	90	115.8	90	124.9	
	41	41.8	41.8	75.5	75.5	90	100.9	90	101.7	90	109.6	
	50	-	-	61.9	61.9	82.7	82.7	82.7	83.4	89.9	89.9	
	57 1/2	-	-	53.8	53.8	72	72	72	72.5	78.2	78.2	
	60	-	-	-	-	69	69	69	69.4	74.9	74.9	
	69	-	-	-	-	-	-	60	60.4	65.1	65.1	
	78	-	-	-	-	-	-	53.1	53.4	57.6	57.6	
174	37	-	-	75.3	75.3	90	100.6	90	101.4	90	117.3	
	48	-	-	58	58	77.6	77.6	77.6	78.2	90	90.4	
	55 1/2	-	-	50.2	50.5	67.1	67.1	67.1	67.6	78.2	78.2	
	58	-	-	-	-	64.2	64.2	64.2	64.7	74.8	74.8	
	66 1/2	-	-	-	-	-	-	56	56.4	65.2	65.2	
	75 1/4	-	-	-	-	-	-	49.5	49.9	57.6	57.6	
183	35 5/16	-	-	71	71	90	93	90	93	90	116.8	
	42	-	-	59.7	59.7	78.2	78.2	78.2	78.2	90	98.2	
	46 1/4	-	-	54.2	54.2	71	71	71	71	89.2	89.2	
	53	-	-	47.3	47.3	62	62	62	62	77.8	77.8	
	55	-	-	-	-	59.7	59.7	59.7	59.7	75	75	
	58 1/8	-	-	-	-	-	-	56.7	56.7	71	71	
	63	-	-	-	-	-	-	48.9	48.9	65.5	65.5	
71 1/2	-	-	-	-	-	-	45.9	45.9	57.5	57.7		
195	36	-	-	51.3	51.3	73.5	73.5	76.8	76.8	94.7	94.7	
	43	-	-	43	43	61.5	61.5	64.4	64.4	79.3	79.3	
	49 1/2	-	-	37.3	37.3	53.4	53.4	56	56	68.9	68.9	
	51 1/2	-	-	-	-	51.4	51.4	53.8	53.8	66.2	66.2	
	59 1/2	-	-	-	-	-	-	46.5	46.5	57.3	57.3	
	67	-	-	-	-	-	-	41.3	41.3	50.9	50.9	
199	36	-	-	48.3	48.3	70.9	70.9	75.4	75.4	89.1	89.1	
	42	-	-	41.4	41.4	60.8	60.8	64.6	64.6	76.4	76.4	
	48 3/4	-	-	35.7	35.7	52.4	52.4	55.7	55.7	65.8	65.8	
	50 1/2	-	-	-	-	50.5	50.5	53.8	53.8	63.5	63.5	
	54 5/16	-	-	-	-	-	-	50	50	59.1	59.1	
	60	-	-	-	-	-	-	45.2	45.2	53.5	53.5	
65 3/4	-	-	-	-	-	-	41.3	41.3	48.8	48.8		
204	36	-	-	44.9	44.9	65.8	65.8	70	70	82.7	82.7	
	42	-	-	38.5	38.5	56.4	56.4	60	60	70.9	70.9	
	47 1/2	-	-	34	34	49.9	49.9	53	53	62.7	62.7	
	49 1/2	-	-	-	-	47.9	47.9	50.9	50.9	60.2	60.2	
	56 3/4	-	-	-	-	-	-	44.4	44.4	52.5	52.5	
64 1/4	-	-	-	-	-	-	39.2	39.2	46.3	46.3		
216	36	-	-	37.8	37.8	55.5	55.5	59	59	69.7	69.7	
	42	-	-	32.4	32.4	47.5	47.5	50.5	50.5	59.7	59.7	
	44 3/4	-	-	30.4	30.4	44.6	44.6	47.4	47.4	56.1	56.1	
	46 1/2	-	-	-	-	42.9	42.9	45.6	45.6	54	54	
	54	-	-	-	-	-	-	39.3	39.3	46.5	46.5	
60 1/2	-	-	-	-	-	-	35.1	35.1	41.5	41.5		

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG:
1600-IR-HVHZ

SECTION: 4

SHEET: 14 / 15

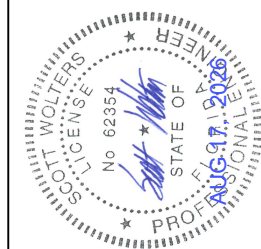


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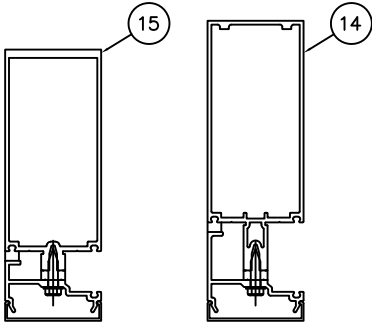
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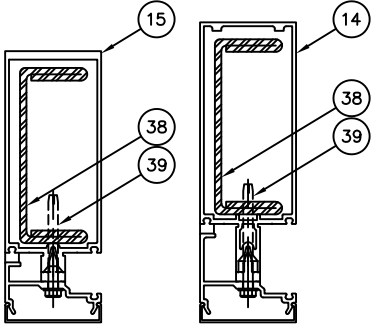
555 GUTHRIDGE COURT
NORCROSS, GA 30092



SINGLE SPAN MULLION LIMITATIONS
FREE JAMB MULLIONS



JAMB MULLION J1



JAMB MULLION J2

Table with 4 columns: HEIGHT (in), WIDTH (in), JAMB J1 1/2" MIN. CAULK JOINT WIDTH (+), JAMB J1 1/2" MIN. CAULK JOINT WIDTH (-). Rows include heights 72, 84, 96, 114, and 123 with various widths and caulk joint values.

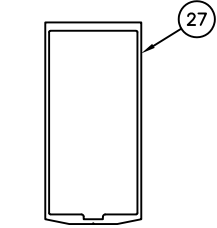
Table with 10 columns: HEIGHT (in), WIDTH (in), JAMB J1 1/2" MIN. CAULK JOINT WIDTH (+), JAMB J1 1/2" MIN. CAULK JOINT WIDTH (-), JAMB J2 1/2" MIN. CAULK JOINT WIDTH (+), JAMB J2 1/2" MIN. CAULK JOINT WIDTH (-). Rows include heights 132, 147, 156, 168, 180, 195, 204, and 216 with various widths and caulk joint values.

- FREE JAMB MULLION NOTES:
- 1. SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.
 - 2. JAMB MULLIONS THAT DO NOT MEET THE REQUIREMENTS ABOVE MUST BE ANCHORED TO THE STRUCTURE PER DETAIL 11/8 AND THE JAMB ANCHOR CHARTS ON SHEET 38.
 - 3. FREE JAMB MULLION DEFLECTION AND CAULK JOINT PERIMETER SEALANT MUST MEET THE REQUIREMENTS OF ASTM C1472.
 - 4. STEEL REINFORCING LENGTH IS SPAN LENGTH MINUS 24".

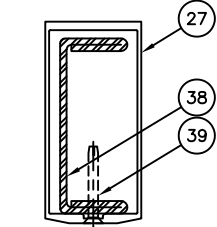
SSG MULLION PRESSURE CHART. Table with 10 columns: HEIGHT (in), WIDTH (in), MULLION M6 (+), M6 (-), M7 (+), M7 (-), M8 (+), M8 (-), M9 (+), M9 (-). Rows include heights 106, 120, 132, 144, 156, 168, 180, 192, 204, and 216 with various widths and pressure values.

SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY

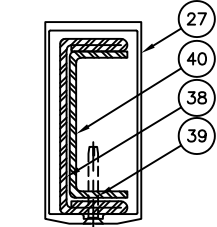
SSG MULLIONS



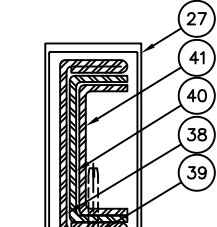
MULLION M6



MULLION M7



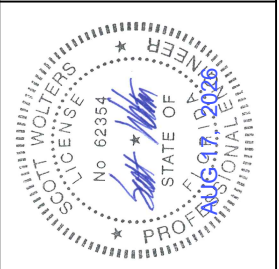
MULLION M8



MULLION M9

Revision table with columns: REVISION, 2023 CODE UPDATE, 1ST SUBMITTAL, PRINTS ISSUED, REV.#, DATE. Rows show dates 12/16/24, 10/15/23, and 10/12/20.

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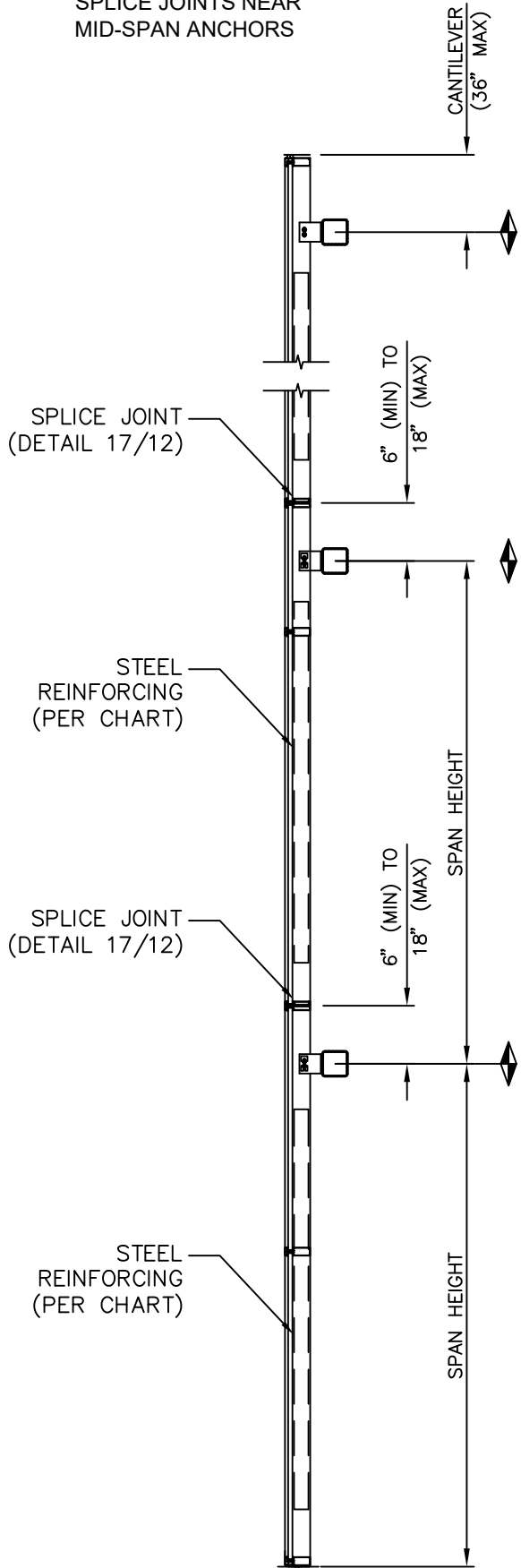
SEAL: SCOTT WALTERS FL PE# 62354. WALTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982

PRODUCT: 1600 WALL SYSTEM 1 & 2. DWG: 1600-IR-HVHZ. SECTION: 4. SHEET: 15/42

MULTI-SPAN MULLION LIMITATIONS

WALL SECTION 1:

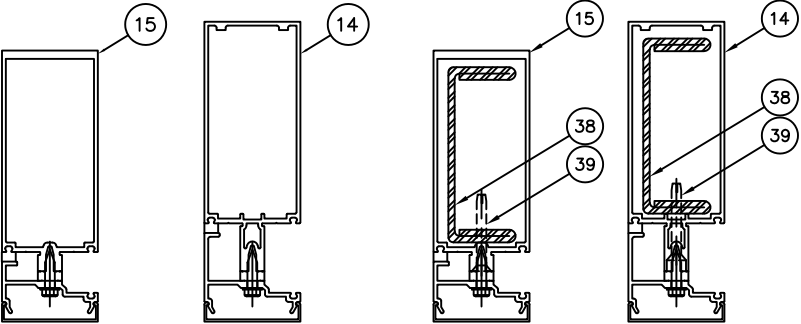
SPLICE JOINTS NEAR MID-SPAN ANCHORS



MULTI-SPAN MULLION CHART - WALL SECTION 1													
		MAX. DESIGN PRESSURE (psf)											
		JAMB MULLION		CAPTURED MULLIONS			SSG MULLIONS						
HEIGHT	WIDTH	J1	J2	M1	M2	M3	M6		M7		M8		
(in)	(in)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+)	(-)	(+)	(-)	(+)	(-)	
114	54	90	90	90	90	90	60	66.3	60	74	60	74	
	62	90	90	86.1	86.1	86.1	57.8	57.8	60	74	60	74	
	66	-	90	-	80.9	80.9	-	-	60	74	60	74	
	72	-	90	-	74.2	74.2	-	-	60	74	60	74	
	78	-	85.6	-	68.5	68.5	-	-	60	68.5	60	68.5	
	84	-	79.5	-	63.6	63.6	-	-	60	63.6	60	63.6	
	96	-	69.6	-	55.6	55.6	-	-	55.6	55.6	55.6	55.6	
118	48	90	90	90	90	90	60	69.3	60	74	60	74	
	54	90	90	80	90	90	60	61.6	60	74	60	74	
	60	90	90	72	86.4	86.4	55.4	55.4	60	74	60	74	
	66	-	90	-	78.5	78.5	-	-	60	74	60	74	
	72	-	89.6	-	72	72	-	-	60	72	60	72	
	78	-	82.7	-	66.4	66.4	-	-	60	66.4	60	66.4	
	84	-	76.8	-	61.7	61.7	-	-	60	61.7	60	61.7	
94	-	68.6	-	55.1	55.1	-	-	55.1	55.1	55.1	55.1		
132	48	90	90	73.6	90	90	51.4	51.4	60	74	60	74	
	52 1/2	90	90	67.3	88.6	88.6	47	47	60	74	60	74	
	60	-	90	-	77.5	77.5	-	-	60	65.5	60	74	
	72	-	80.8	-	64.6	64.6	-	-	54.6	54.6	60	64.6	
	78	-	74.6	-	59.6	59.6	-	-	50.4	50.4	59.6	59.6	
	84	-	69.2	-	-	55.4	-	-	-	-	55.4	55.6	
144	48	90	90	56.7	89.1	89.1	39	39	60	74	60	74	
	54	-	90	-	79.2	79.2	-	-	60	74	60	74	
	60	-	83	-	71.3	71.3	-	-	60	71.3	60	71.3	
	70	-	71.2	-	61.1	61.1	-	-	60	60	60	61.1	
	77 1/2	-	64.3	-	-	55.2	-	-	-	-	55.2	55.2	
156	54	-	78.4	-	73	73	-	-	60	68.6	60	68.6	
	60	-	70.5	-	65.7	65.7	-	-	60	61.8	60	61.8	
	64 1/2	-	65.6	-	61.2	61.2	-	-	57.5	57.5	57.5	57.5	
	71 3/4	-	59	-	-	55	-	-	-	-	51.7	51.7	
168	42	-	86.4	-	84.5	87.4	-	-	60	74	60	74	
	48	-	75.6	-	73.9	76.5	-	-	60	66.3	60	66.3	
	54	-	67.2	-	65.7	68	-	-	58.9	58.9	58.9	58.9	
	60	-	60.5	-	59.1	61.2	-	-	53	53	53	53	
	66 5/8	-	54.4	-	-	55.1	-	-	-	-	47.7	47.7	
180	42	-	74.7	-	72	81.6	-	-	60	65.5	60	65.5	
	48	-	65.4	-	63	71.4	-	-	57.4	57.4	57.4	57.4	
	56	-	56	-	54	61.2	-	-	49.2	49.2	49.2	49.2	
	64	-	49	-	-	53.5	-	-	-	-	43.1	43.1	
192	36	-	76.4	-	67.2	84	-	-	60	64	60	67	
	42	-	65.5	-	57.6	72	-	-	54.8	54.8	57.4	57.4	
	48	-	57.3	-	50.4	63	-	-	48	48	50.2	50.2	
	52 1/2	-	52.4	-	46.1	57.6	-	-	43.9	43.9	45.9	45.9	
	60	-	45.8	-	-	50.4	-	-	-	-	40.2	40.2	
204	36	-	67.6	-	56	69.2	-	-	53.2	53.2	59.4	59.4	
	42	-	57.9	-	48	59.3	-	-	45.6	45.6	50.9	50.9	
	49 1/4	-	49.4	-	40.9	50.6	-	-	38.9	38.9	43.4	43.4	
56 1/2	-	43.1	-	-	44.1	-	-	-	-	37.8	37.8		
216	36	-	60	-	46.8	58.8	-	-	44.6	44.6	52.4	52.4	
	42	-	51.4	-	40.1	50.4	-	-	38.2	38.2	44.9	44.9	
	46 1/2	-	46.4	-	36.2	45.5	-	-	34.5	34.5	40.5	40.5	
	53 3/8	-	40.4	-	-	39.6	-	-	-	-	35.3	35.3	

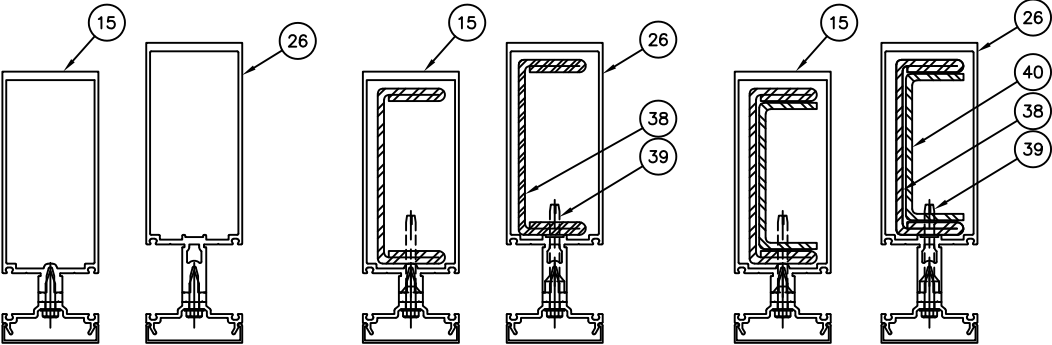
WALL SECTION 1 NOTES:

1. SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.
2. SPLICE JOINTS ARE LOCATED NEAR (6" to 18") EACH MID-SPAN ANCHOR.
3. VALUES IN CHART ARE FOR EQUAL SPANS. FOR UNEQUAL SPANS, SEE THE MULTI-SPAN REQUIREMENTS ON SHEET 20.
4. FOR MULLIONS WITH NO SPLICE JOINTS, SPLICE JOINTS FARTHER FROM ANCHOR POINTS, OR MULLIONS THAT EXCEED THE DIMENSIONS LISTED, SEE EITHER THE WALL SECTIONS ON SHEETS 17, 18, OR THE MULTI-SPAN NOTES ON SHEET 20.
5. STEEL REINFORCING LENGTH IS SPAN LENGTH MINUS 24", OR DISTANCE FROM SPLICE TO ANCHOR MINUS 24".
6. THE VALUES IN THE CHART ARE SHOWN FOR CONVENIENCE. ALL MULLIONS MUST MEET THE MULTI-SPAN MULLION REQUIREMENTS LISTED ON SHEET 20.



JAMB MULLION J1

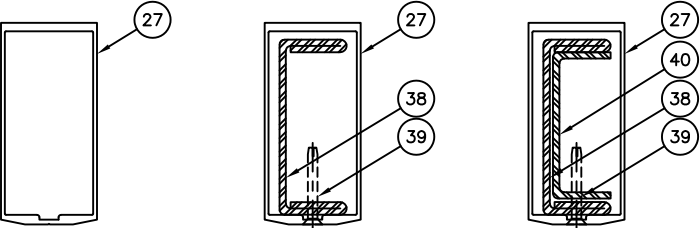
JAMB MULLION J2



MULLION M1

MULLION M2

MULLION M3



MULLION M6

MULLION M7

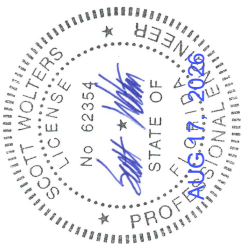
MULLION M8

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REVISION		—	12/16/24
REVISION		—	2/19/24
2023 CODE UPDATE		—	10/15/23
1ST SUBMITTAL		—	10/12/20
PRINTS ISSUED FOR	REV.#	DATE	

KAWNEER
AN ARCONIC COMPANY

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WWW.KAWNEER.COM

555 GUTHRIDGE COURT
NORCROSS, GA 30092



SEAL:

SCOTT WOLTERS
FL PE# 62354

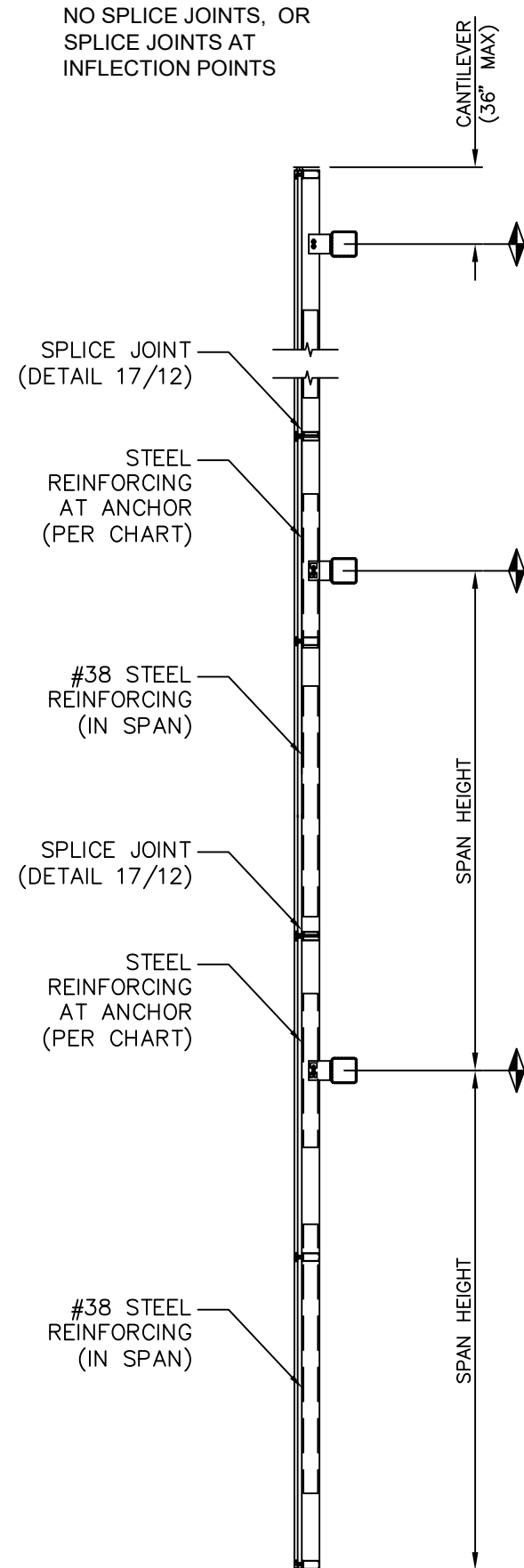
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	4
SHEET:	16/42

MULTI-SPAN MULLION LIMITATIONS

WALL SECTION 2:

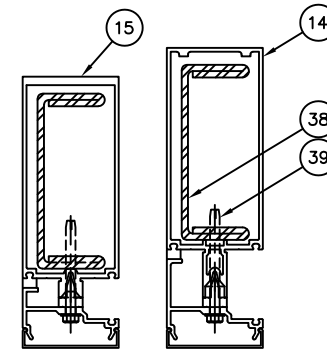
NO SPLICE JOINTS, OR
SPLICE JOINTS AT
INFLECTION POINTS



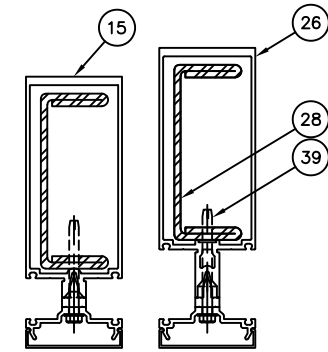
		MAX DESIGN PRESSURE (PSF)							
		JAMB MULLION	CAPTURED MULLIONS				SSG MULLION		
HEIGHT (in)	WIDTH (in)	J2 (+/-)	M2 (+/-)	M3 (+/-)	M4 (+/-)	M7 (+) (-)		M8 (+) (-)	
120	54	90	90	90	90	60	74	60	74
	60	90	89.9	90	90	60	74	60	74
	72	79.2	74.9	90	90	60	74	60	74
	84	67.9	64.2	81	90	60	74	60	74
	96	59.4	-	-	90	-	-	60	60
132	54	90	90	90	90	60	74	60	74
	60	86	81.4	90	90	60	74	60	74
	68	75.8	71.8	90	90	60	74	60	74
	76	67.9	64.3	81	90	60	74	60	74
	87	59.3	-	-	90	-	-	60	60
144	54	87.8	83.2	90	90	60	74	60	74
	60	79	74.9	90	90	60	70	60	74
	70	67.8	64.2	80.6	90	60	60	60	68.6
	80	59.3	-	-	90	-	-	60	60
156	48	90	86.4	90	90	60	74	60	74
	54	80.5	76.8	90	90	60	71.6	60	74
	60	72.5	69.1	86.9	90	60	64.5	60	69.6
	64 1/2	67.4	64.3	80.8	90	60	60	60	64.7
	73 1/2	59.2	-	-	90	-	-	56.8	56.8
168	42	90	90	90	90	60	74	60	74
	48	84.6	80.1	90	90	60	74	60	74
	54	75.2	71.2	89.6	90	60	66.7	60	74
	60	67.7	64.1	80.6	90	60	60	60	66.9
	68 5/8	59.2	-	-	90	-	-	58.5	58.5
180	42	89.6	85.6	90	90	60	74	60	74
	48	78.4	74.9	90	90	60	65.7	60	65.7
	56	66.8	64.2	80.7	90	56.3	56.3	56.3	56.3
	64	58.8	-	-	83.7	-	-	49.3	49.3
192	36	90	90	90	90	60	74	60	74
	42	78.5	80.2	90	90	60	66	60	66
	48	68.7	70.2	88.2	90	57.7	57.7	57.7	57.7
	52 1/2	62.8	64.2	80.6	89.8	52.8	52.8	52.8	52.8
	60	55	-	-	78.6	-	-	46.2	46.2
204	36	80.8	88	90	90	60	68.2	60	68.2
	42	69.2	75.4	90	90	58.4	58.4	58.4	58.4
	49 1/4	59	64.3	79.5	84.5	49.8	49.8	49.8	49.8
	56 1/2	51.5	-	-	73.5	-	-	43.4	43.4
216	36	70.8	78.4	90	90	60	62.4	60	62.4
	42	60.7	67.2	85	85.7	53.5	53.5	53.5	53.5
	46 1/2	54.8	60.7	76.8	77.4	48.3	48.3	48.3	48.3
	53 3/8	47.7	-	-	67.4	-	-	42.1	42.1

WALL SECTION 2 NOTES:

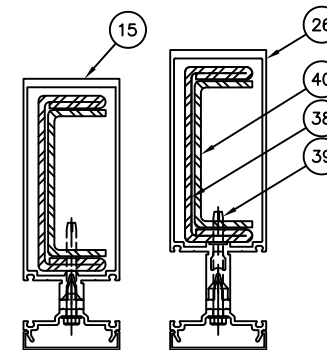
1. SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.
2. SPLICE JOINTS, IF REQUIRED, ARE LOCATED AT BENDING MOMENT INFLECTION POINTS.
3. LENGTH OF #38 STEEL REINFORCING IN SPAN = (SPAN LENGTH)/1.75
4. STEEL REINFORCING IN SPAN IS CENTERED BETWEEN STEEL AT MID-SPAN ANCHORS, BETWEEN STEEL AT MID-SPAN ANCHOR AND SPLICE JOINT, OR BETWEEN MID-SPAN ANCHOR AND HEAD/SILL.
5. LENGTH OF STEEL REINFORCING AT MID-SPAN ANCHORS = (SPAN LENGTH)/2.8.
6. VALUES IN CHART ARE FOR MULLIONS WITH EQUAL SPANS. FOR MULLIONS WITH UNEQUAL SPANS, SEE THE MULTI-SPAN REQUIREMENTS ON SHEET 20.
7. THE VALUES IN THE CHART ARE SHOWN FOR CONVENIENCE. ALL MULLIONS MUST MEET THE MULTI-SPAN MULLION REQUIREMENTS LISTED ON SHEET 20.



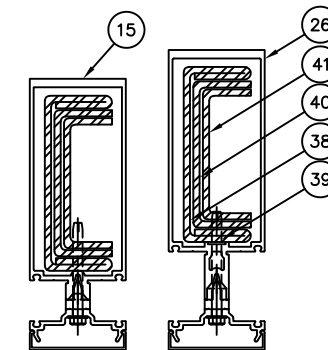
JAMB MULLION J2



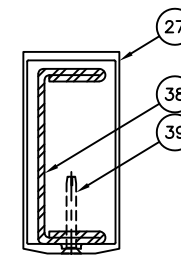
MULLION M2



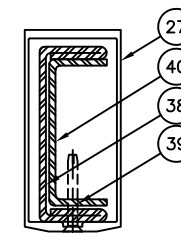
AT ANCHOR



AT ANCHOR



MULLION M7



AT ANCHOR

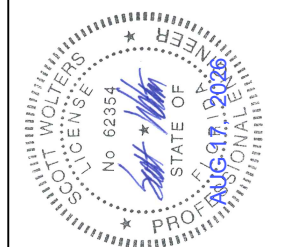


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-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
REVISION	-	12/16/24
2023 CODE UPDATE	-	10/15/23
1ST SUBMITTAL	-	10/12/20
PRINTS ISSUED FOR	REV.#	DATE

KAWNEER
AN ARCONIC COMPANY

555 GUTHRIDGE COURT
NORCROSS, GA 30092

PH: (770) 449-5555
WWW.KAWNEER.COM



SEAL:

SCOTT WOLTERS
FL PE# 62354

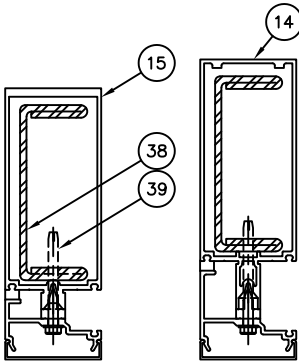
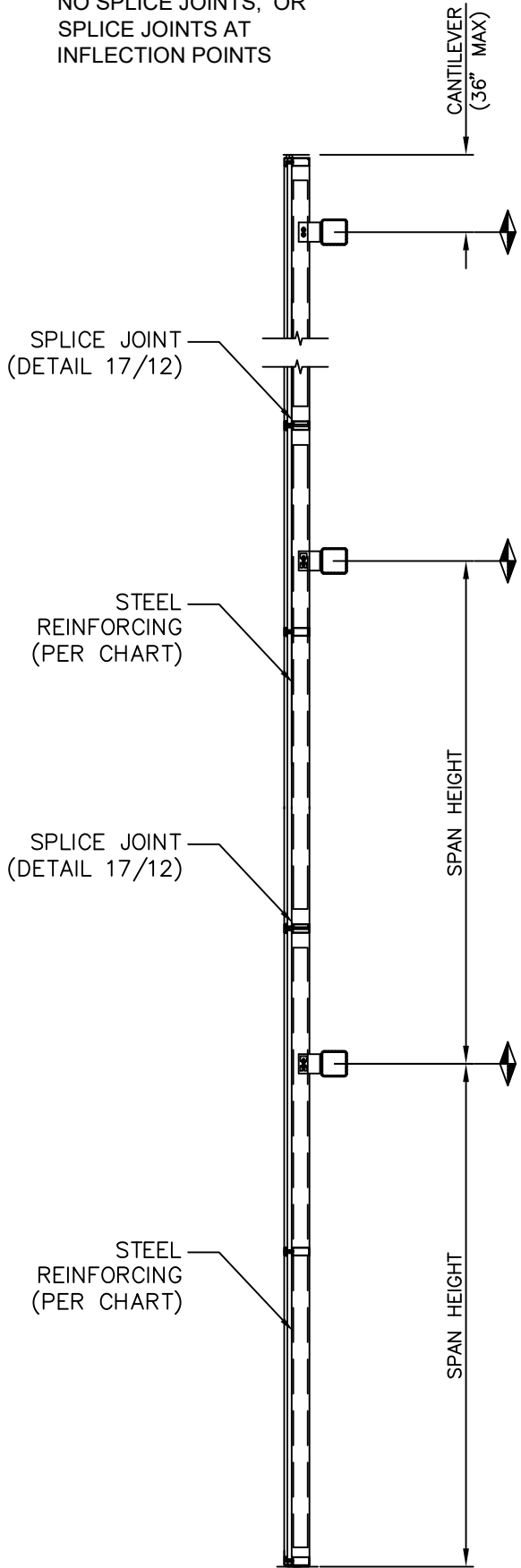
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	4
SHEET:	17/42

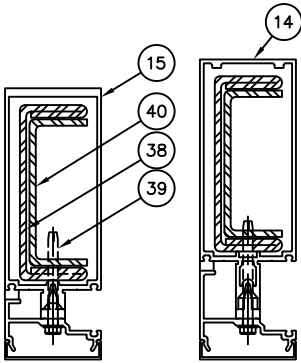
MULTI-SPAN MULLION LIMITATIONS

WALL SECTION 3:

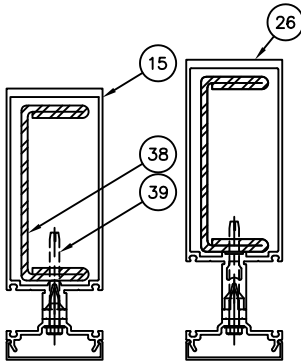
NO SPLICE JOINTS, OR
SPLICE JOINTS AT
INFLECTION POINTS



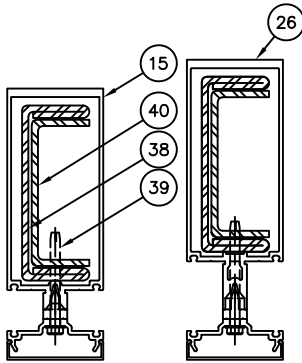
JAMB MULLION J2



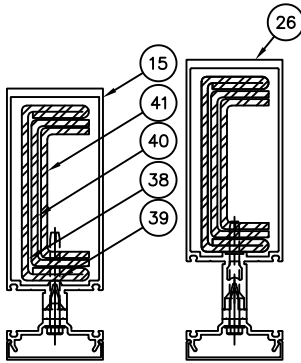
JAMB MULLION J3



MULLION M2



MULLION M3



MULLION M4

MULTI-SPAN MULLION CHART - WALL SECTION 3							
HEIGHT (in)		MAX. DESIGN PRESSURE (PSF)					
		JAMB MULLION		CAPTURED MULLION			
		J2 (+/-)	J3 (+/-)	M2 (+/-)	M3 (+/-)	M4 (+)	(-)
144	62	71	71	71	71	71	90
	66	-	71	68.3	71	71	90
	73	-	65.1	61.7	71	71	90
	77	-	61.7	58.5	71	71	90
	84	-	-	53.6	67.9	71	86.7
	92	-	-	-	62	71	79.2
	96	-	-	-	-	71	75.9
156	57 1/2	71	71	71	71	71	90
	60	-	71	69.4	71	71	90
	67	-	65.3	62.1	71	71	90
	71	-	61.6	58.6	71	71	90
	78	-	-	53.3	67.6	71	86.3
	85	-	-	-	62	71	79.2
	90	-	-	-	-	71	74.8
96	-	-	-	-	70.1	70.1	
168	53	71	71	71	71	71	90
	62 1/2	-	64.9	62	71	71	90
	66	-	61.5	58.7	71	71	90
	72	-	-	53.8	68	71	86.8
	79	-	-	-	62	71	79.1
	84	-	-	-	-	71	74.4
	90	-	-	-	-	69.4	69.4
96	-	-	-	-	65.1	65.1	
180	49 1/2	71	71	71	71	71	90
	58	-	65.5	62.3	71	71	90
	61	-	62.3	59.2	71	71	90
	68	-	-	53.1	67.1	71	85.8
	74	-	-	-	61.7	71	78.1
	80	-	-	-	-	71	72.9
89	-	-	-	-	65.5	65.5	
187	48	71	71	71	71	71	90
	54	-	67.2	64	71	71	90
	56	-	64.8	61.7	71	71	90
	59	-	61.5	58.5	71	71	90
	66	-	-	52.3	66.5	71	85.1
	71	-	-	-	61.8	71	79.1
	78	-	-	-	-	71	72
86	-	-	-	-	65.3	65.3	
192	48	-	71	70.5	71	71	90
	54	-	65.6	62.6	71	71	90
	57 1/2	-	61.6	-	71	71	90
	69	-	-	-	62	71	79.3
	72	-	-	-	-	71	76
	78	-	-	-	-	70.1	70.1
84	-	-	-	-	65.1	65.1	
204	42	-	71	71	71	71	71
	48	-	69.6	63.4	71	71	71
	51 1/2	-	64.8	59.1	71	71	71
	54	-	61.8	-	71	71	71
	60	-	-	-	67.2	71	71
	65	-	-	-	62	71	71
	72	-	-	-	-	67.8	67.8
79	-	-	-	-	61.8	61.8	
216	36	-	71	71	71	71	71
	42	-	71	68.2	71	71	71
	48	-	63	59.7	71	71	71
	51	-	59.3	-	71	71	71
	61	-	-	-	59.7	71	71
	68	-	-	-	-	65	65
74	-	-	-	-	59.7	59.7	
231	36	-	71	70	71	71	71
	42	-	62.7	60	71	71	71
	45 1/2	-	57.6	55	69.9	71	71
	48	-	54.6	-	66.3	71	71
	57 3/4	-	-	-	55.1	66.5	66.5
	66	-	-	-	-	58.2	58.2
70	-	-	-	-	54.9	54.9	

WALL SECTION 3 NOTES:

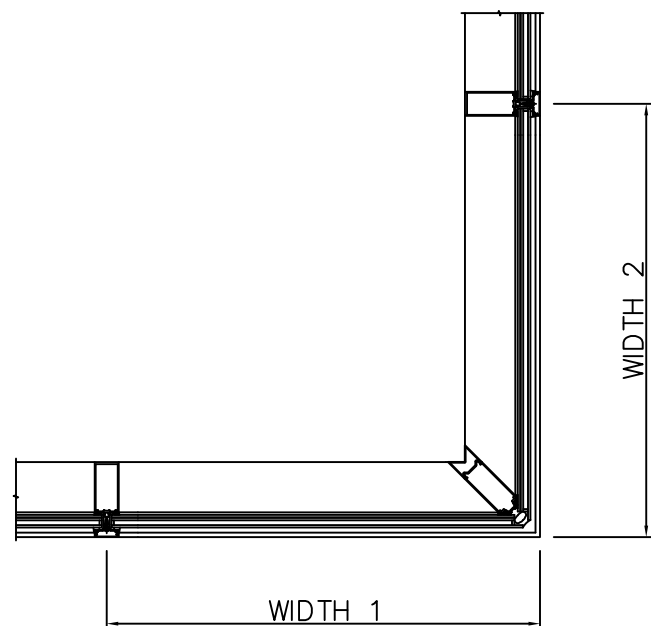
1. SPLICE JOINTS, IF REQUIRED, ARE LOCATED AT BENDING MOMENT INFLECTION POINTS.
2. VALUES IN CHART ARE FOR EQUAL SPANS. FOR UNEQUAL SPANS, SEE THE MULTI-SPAN LIMITATIONS ON SHEET 20.
3. STEEL REINFORCING LENGTH = MULLION LENGTH - 24".
4. THE VALUES IN THE CHART ARE SHOWN FOR CONVENIENCE. ALL MULLIONS MUST MEET THE MULTI-SPAN MULLION REQUIREMENTS LISTED ON SHEET 20.

SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982		K KAWNEER AN ARCONIC COMPANY			—	—	—
					—	—	—
					—	—	—
					—	—	—
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PRODUCT:		1600 WALL SYSTEM 1 & 2		REVISION	12/16/24	—	
DWG:		1600-IR-HVHZ		2023 CODE UPDATE	10/15/23	—	
SECTION:		4		1ST SUBMITTAL	10/12/20	—	
SHEET:		18/42		PRINTS ISSUED FOR	REV.#	DATE	
				PH: (770) 449-5555 WWW.KAWNEER.COM			
				555 GUTHRIDGE COURT NORCROSS, GA 30092			

CORNER MULLION LIMITATIONS

SINGLE AND MULTI-SPAN MULLIONS.

SINGLE SPAN CORNER MULLION CHART				
		MAX. DESIGN PRESSURE (psf)		
		CORNER MULLIONS		
HEIGHT (in)	WIDTH (in)	C3 (+/-)	C4 (+/-)	C7 (+/-)
110	48	74	90	74
	54	68.3	90	68.3
	61 3/4	60	90	60
	63 1/4	-	90	-
	72	-	74	-
	85	-	74	-
120	42	62.4	90	62.4
	48	55	90	55
	52	50.9	90	50.9
	56 1/2	46.7	90	46.7
	63 1/4	-	90	-
	67 1/2	-	74	-
132	77 1/2	-	74	-
	36	58.1	90	58.1
	42	50.3	90	50.3
	48	44.2	90	44.2
	51	41.6	90	41.6
	63 1/4	-	90	-
147	70 1/2	-	74	-
	36	42.1	90	42.1
	42	36.4	90	36.4
	45 1/2	33.6	90	33.6
	54	-	90	-
	63 1/4	-	90	-
156	36	35.2	90	35.2
	42	30.4	90	30.4
	48	-	90	-
	54	-	87.6	-
	59 1/4	-	80	-
168	36	-	90	-
	42	-	89.2	-
	48	-	78.5	-
	55	-	68.8	-

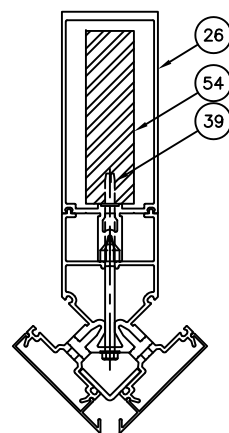


$$\text{CORNER MULLION SPACING} = \frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$$

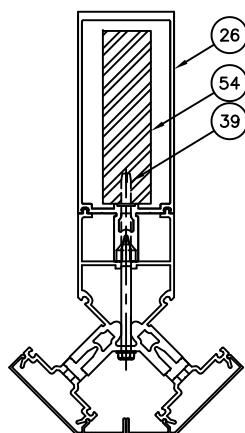
MULTI-SPAN CORNER MULLION CHART										
		MAX. DESIGN PRESSURE (PSF)								
		CAPTURED MULLIONS				SSG MULLIONS				
HEIGHT (in)	WIDTH (in)	C1 (+/-)	C2 (+/-)	C3 (+/-)	C4 (+/-)	C5 (+/-)	C6 (+) (-)		C7 (+) (-)	
114	64	60	74	74	90	60	60	74	60	74
	66	60	74	74	90	60	60	74	60	74
	71 1/4	-	74	74	90	-	60	74	60	74
	78 3/4	-	67.1	74	90	-	60	67.1	60	74
	84	-	-	74	90	-	-	-	60	74
	63 1/4	60	74	74	90	60	60	74	60	74
	72	-	71.3	74	90	-	60	71.3	60	74
	76	-	67.6	74	90	-	60	67.6	60	74
118	84	-	-	60	90	-	-	-	60	60
	48	60	74	74	90	60	60	74	60	74
	56	53.7	73.3	74	90	53.7	60	73.3	60	74
	67 1/2	-	61	74	90	-	60	61	60	74
132	81	-	-	60	90	-	-	-	60	60
	42	59.4	74	74	90	59.4	60	74	60	74
	45 1/2	55	74	74	90	55	60	74	60	74
	51 1/4	49	68	74	90	49	60	68	60	74
144	62	-	56.8	74	90	-	56.8	56.8	60	74
	74	-	-	60	90	-	-	-	60	60
	36	55.6	74	74	90	55.6	60	74	60	74
	42	50.7	69.6	74	90	50.7	60	69.6	60	74
156	47 1/4	45.2	62.1	74	90	45.2	60	62.1	60	74
	57	-	51.9	74	90	-	51.9	51.9	60	74
	68	-	-	60	90	-	-	-	60	60
	36	50.1	70.4	74	90	50.1	60	70.4	60	74
168	43 3/4	41.6	58.8	74	90	41.6	58.8	58.8	60	74
	48	-	53.5	74	90	-	53.5	53.5	60	74
	52 3/4	-	48.9	71.4	90	-	48.9	48.9	60	71.4
	63 1/4	-	-	60	90	-	-	-	60	60
180	36	44	61	60	90	44	60	61	60	74
	40 1/2	39.3	54.5	60	90	39.3	54.5	54.5	60	74
	49	-	45.5	60	90	-	45.5	45.5	60	70.3
	54	-	-	60	89.8	-	-	-	60	60
192	58 3/4	-	-	59.1	82.8	-	-	-	59.1	59.1
	36	38.9	53.3	60	90	38.9	53.3	53.3	60	74
	38	37	50.7	60	90	37	50.7	50.7	60	74
	42	-	46.1	60	90	-	46.1	46.1	60	72.3
204	45 3/4	-	42.3	60	90	-	42.3	42.3	60	66.5
	48	-	-	60	87.6	-	-	-	60	60
	55	-	-	55.8	76.8	-	-	-	55.8	55.8
	36	-	47.4	60	90	-	47.4	47.4	60	60
216	43	-	40	60	84.5	-	40	40	60	63.9
	48	-	-	57.6	76.2	-	-	-	57.6	57.6
	51 1/2	-	-	53.8	71.2	-	-	-	53.8	53.8
	36	-	42.4	60	90	-	42.4	42.4	60	66.4
228	40 1/2	-	37.8	59.2	80.9	-	37.8	37.8	59.2	59.2
	42	-	-	57.3	78.3	-	-	-	57.3	57.3
	48 1/2	-	-	49.8	68	-	-	-	49.8	49.8

MULTI-SPAN CORNER NOTES:

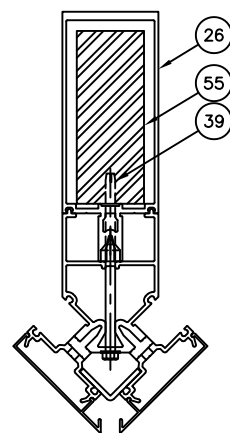
1. SHADED VALUES ARE APPROVED FOR USE OUTSIDE OF THE HVHZ ONLY.
2. SIZES AND PRESSURES LISTED ARE FOR MULLIONS WITH EQUAL SPANS. FOR MULLIONS WITH UNEQUAL SPANS, SEE THE MULTI-SPAN MULLION LIMITATIONS LISTED ON SHEET 20.
3. WIDTHS AT CORNER MULLIONS WITH HORIZONTAL SPLICES ARE LIMITED TO 64" MAX.
4. THE VALUES IN THE CHART ARE SHOWN FOR CONVENIENCE. ALL MULLIONS MUST MEET THE MULTI-SPAN MULLION REQUIREMENTS LISTED ON SHEET 20.



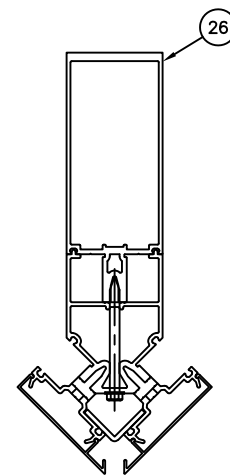
CORNER MULLION C3



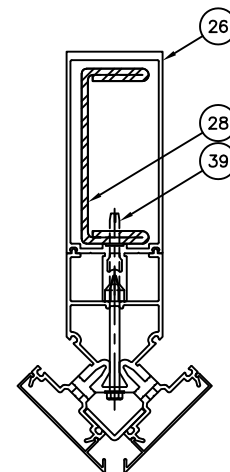
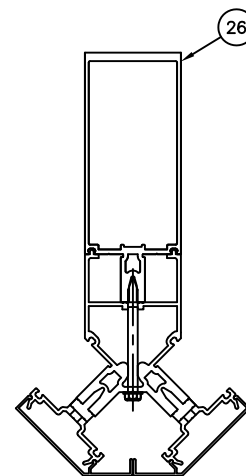
CORNER MULLION C4



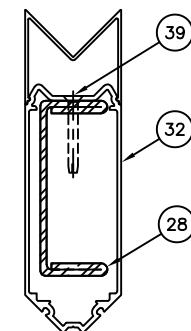
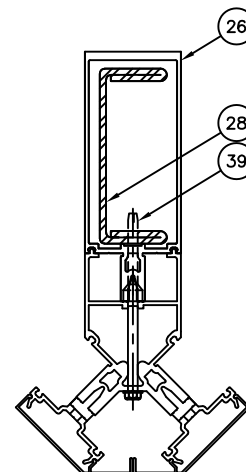
CORNER MULLION C5



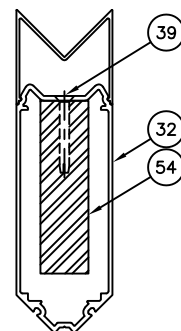
CORNER MULLION C1



CORNER MULLION C2



CORNER MULLION C6



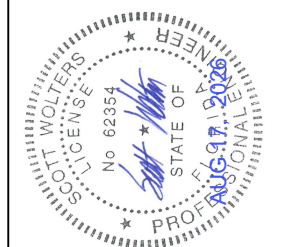
CORNER MULLION C7

[illegible]

KAWNEER
AN ARCONIC COMPANY

555 GUTHRIDGE COURT
NORCROSS, GA 30092

PH: (770) 449-5555
WWW.KAWNEER.COM



SEAL:

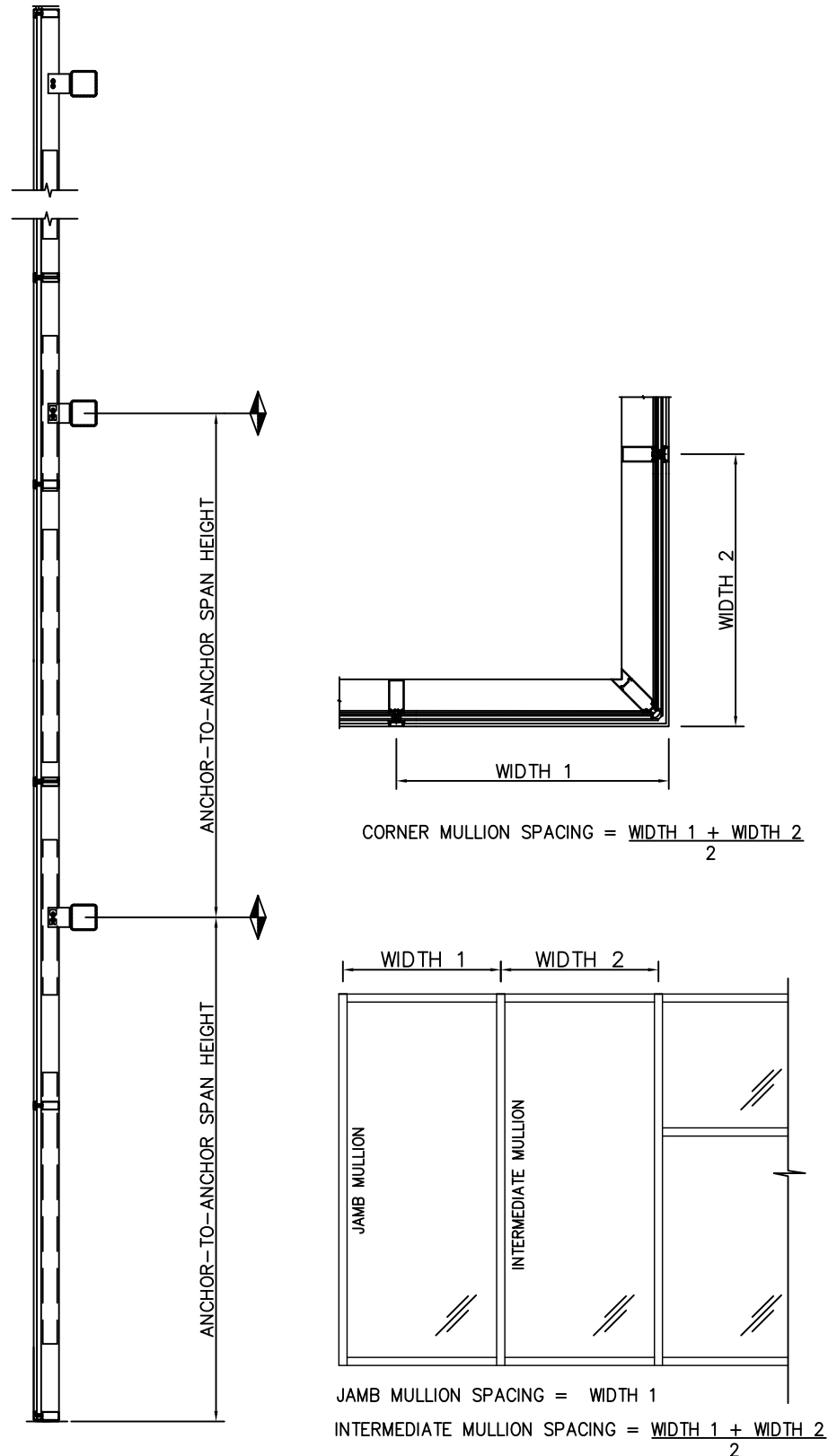
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	4
SHEET:	19/42

MULTI-SPAN MULLION LIMITATIONS

ALL WALL SECTIONS:



MULTI-SPAN MULLION LIMITATIONS

VERTICAL MULLIONS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS:

CAPTURED MULLIONS WITH WINDLOADS $\leq \pm 71$ psf:

1. MAX SPAN TRIB. AREA = 112 ft² (SEE NOTE #1 BELOW)
2. IN THE HVHZ, MAX ANCHOR-TO-ANCHOR
SPAN HEIGHT = 231 in.
3. MAX DEFLECTION = L/180.

CAPTURED MULLIONS WITH WINDLOADS $\leq \pm 90$ psf:

1. MAX SPAN TRIB. AREA = 80 ft² (SEE NOTE #1 BELOW)
2. IN THE HVHZ, MAX ANCHOR-TO-ANCHOR
SPAN HEIGHT = 168 in.
3. MAX DEFLECTION = L/180.

ALL CAPTURED MULLIONS:

4. MAX BENDING MOMENTS:
- | | |
|-------------|----------------------------|
| MID-SPAN: | 60,918 in-lb (MULLION M1) |
| | 81,184 in-lb (MULLION M2) |
| | 100,477 in-lb (MULLION M3) |
| | 121,716 in-lb (MULLION M4) |
| AT ANCHORS: | 60,918 in-lb (MULLION M1) |
| | 116,277 in-lb (MULLION M2) |
| | 147,640 in-lb (MULLION M3) |
| | 178,848 in-lb (MULLION M4) |
5. MAX WINDLOAD REACTIONS:
- | | |
|--------------------------|--------------------|
| AT HEAD/SILL F/T-ANCHOR: | 3367 lb. |
| AT MID-SPAN ANCHOR: | 4363 lb (NO STEEL) |
| | 5621 lb (M2 STEEL) |
| | 7138 lb (M3 STEEL) |
| | 9119 lb (M4 STEEL) |

SSG MILLIONS:

1. MAX. WINDLOADS = +60/-74 psf.
2. MAX. SPAN TRIB. AREA = 77 ft² (SEE NOTE #1 BELOW)
3. IN THE HVHZ, MAX ANCHOR-TO-ANCHOR
SPAN HEIGHT = 168 in (+/-60 psf)
= 132 in (+60/-74 psf)
4. MAX. DEFLECTION = L/180.
5. MAX. BENDING MOMENTS:
MID-SPAN: 36,468 in-lb (MULLION M6)
72,731 in-lb (MULLION M7)
72,731 in-lb (MULLION M8)
AT ANCHORS: 38,267 in-lb (MULLION M6)
92,687 in-lb (MULLION M7)
6. MAX. WINDLOAD REACTIONS:
AT HEAD/SILL F/T-ANCHOR: 3367 lb.
AT MID-SPAN ANCHOR: 4363 lb (NO STEEL)
6702 lb (M7 STEEL)
7138 lb (M8 STEEL)

MULTI-SPAN MULLION NOTES:

1. SPAN TRIB. AREA = ANCHOR-TO-ANCHOR SPAN HEIGHT x MULLION SPACING.
2. FREE JAMB MULLION DEFLECTION AND CAULK JOINT PERIMETER SEALANT MUST MEET THE REQUIREMENTS OF ASTM C1472.
3. MULLION WIDTHS AT CORNER MULLIONS WITH SPLICE HORIZONTALS ARE LIMITED TO 64" MAX.

FREE JAMB MULLIONS:

1. MAX WINDLOADS = +/-90 psf
2. MAX. SPAN TRIB. AREA = 40.5 ft² (SEE NOTE #1 BELOW)
3. IN THE HVHZ, MAX ANCHOR-TO-ANCHOR
SPAN HEIGHT = 168 in (+/-90 psf)
= 231 in (+/-71 psf)
4. MAX DEFLECTION = L/180. (SEE NOTE #2 BELOW)
5. MAX. BENDING MOMENTS:
MID-SPAN: 21,902 in-lb (MULLION J1)
41,501 in-lb (MULLION J2)
41,501 in-lb (MULLION J3)
AT ANCHORS: 52,812 in-lb (MULLION J1)
52,801 in-lb (MULLION J2)
61,342 in-lb (MULLION J3)
6. MAX WINDLOAD REACTIONS:
AT HEAD/SILL F/T-ANCHOR: 1092 lb.
AT MID-SPAN ANCHOR: 2714 lb (NO STEEL)
2986 lb (WITH STEEL)

JAMB MULLIONS THAT EXCEED THE VALUES LISTED ABOVE
MUST BE ANCHORED TO THE STRUCTURE PER DETAIL 11/8
AND THE JAMB ANCHOR CHARTS ON SHEET 38.

CAPTURED CORNER MULLIONS:

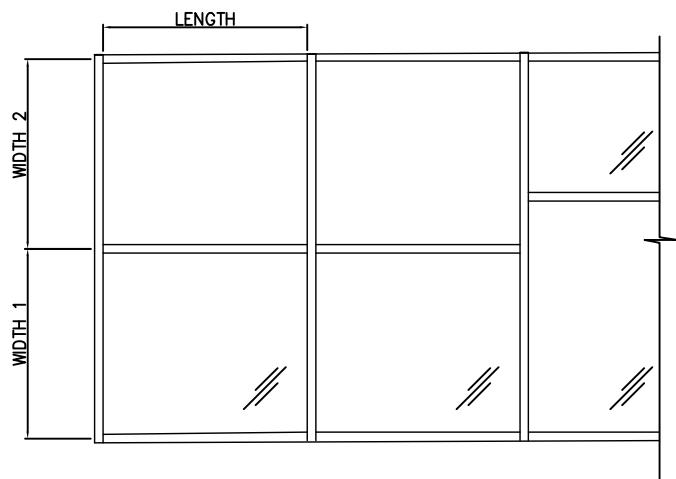
1. MAX WINDLOADS = +/-90 psf
2. MAX. SPAN TRIB. AREA = 73.8 ft² (SEE NOTE #1 BELOW)
3. IN THE HVHZ, MAX ANCHOR-TO-ANCHOR
SPAN HEIGHT = 168 in.
4. MAX DEFLECTION = L/180.
5. MAX BENDING MOMENTS:
MID-SPAN: 34,807 in-lb (MULLION C1)
34,807 in-lb (MULLION C2)
50,375 in-lb (MULLION C3)
55,845 in-lb (MULLION C4)
AT ANCHORS: 52,812 in-lb (MULLION C1)
54,538 in-lb (MULLION C2)
72,994 in-lb (MULLION C3)
105,927 in-lb (MULLION C4)
6. MAX WINDLOAD REACTIONS:
AT HEAD/SILL F/T-ANCHOR: 1797 lb.
AT MID-SPAN ANCHOR: 3022 lb (NO STEEL)
3943 lb (C2 STEEL)
4109 lb (C3 STEEL)
6113 lb (C4 STEEL)

SSG CORNER MULLIONS:

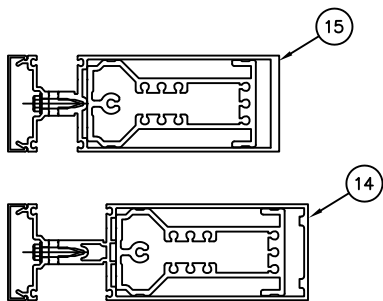
1. MAX. WINDLOADS = +60/-74 psf
2. MAX. SPAN TRIB. AREA = 73.8 ft² (SEE NOTE #1 BELOW)
3. IN THE HVHZ, MAX ANCHOR-TO-ANCHOR
SPAN HEIGHT = 168 in (+/-60 psf)
= 132 in (+60/-74 psf)
4. MAX DEFLECTION = L/180.
5. MAX. BENDING MOMENTS:
- MID-SPAN: 22,875 in-lb (MULLION C5)
22,875 in-lb (MULLION C6)
50,375 in-lb (MULLION C7)
- AT ANCHORS: 23,319. in-lb (MULLION C5)
54,538 in-lb (MULLION C6)
72,994 in-lb (MULLION C7)
6. MAX WINDLOAD REACTIONS:
- AT HEAD/SILL F/T-ANCHOR: 1415 lb.
- AT MID-SPAN ANCHOR: 3053 lb (NO STEEL)
3943 lb (C6 STEEL)
4109 lb (C7 STEEL)

SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982			
PRODUCT: 1600 WALL SYSTEM 1 & 2			
DWG: 1600-IR-HVHZ			
SECTION: 4			
SHEET: 20/42			

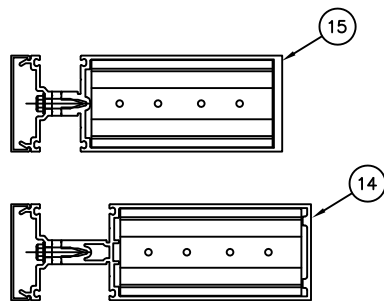
HORIZONTAL MULLION LIMITATIONS



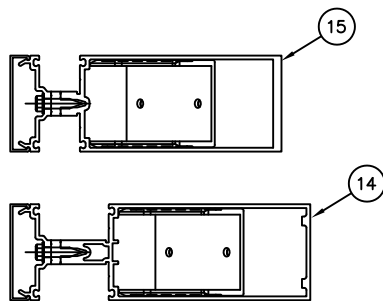
$$\text{HORIZONTAL MULLION SPACING} = \frac{\text{WIDTH 1} + \text{WIDTH 2}}{2}$$



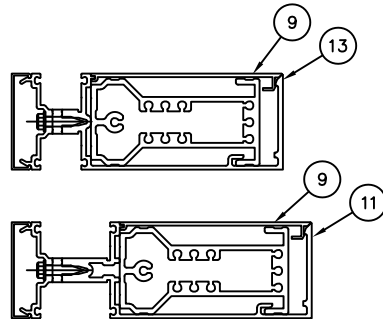
HORIZONTAL MULLION H1
(TYPICAL HORIZONTAL)



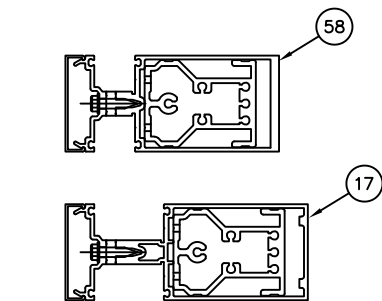
HORIZONTAL MULLION H2
(WITH HIGH PRESSURE SHEAR BLOCK)



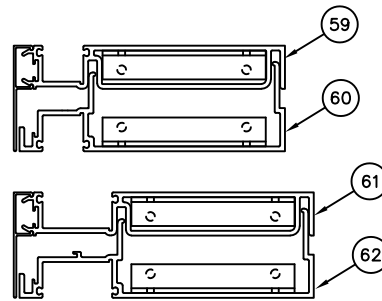
**HORIZONTAL MULLION H3
(AT CORNER MULLION)**



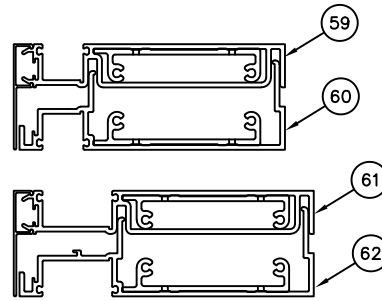
HORIZONTAL MULLION H4
(LAST BAY)



HORIZONTAL MULLION H5
(SHALLOW HORIZONTAL)

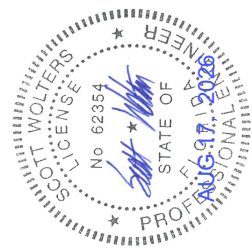


HORIZONTAL MULLION H7
(SPLICE AT CORNER)



HORIZONTAL MULLION H6
(SPLICE HORIZONTAL)

		MAX. DESIGN PRESSURE (psf)						
		INTERMEDIATE HORIZONTAL MULLIONS						
LENGTH (in)	WIDTH (in)	H1 (+/-)	H2 (+/-)	H3 (+/-)	H4 (+/-)	H5 (+/-)	H6 (+/-)	H7 (+/-)
39 1/2	40 1/8	127	127	90	127	90	90	90
	69	127	127	90	90	90	90	90
	84	90	127	90	90	90	90	90
	96	90	127	90	90	90	90	90
58 1/2	46 3/4	127	127	90	90	90	90	90
	63	90	127	90	90	90	90	90
	69 1/2	90	90	90	90	90	90	90
	72	90	90	90	90	90	-	-
	92	90	90	-	90	90	-	-
68 1/4	40 1/8	127	127	90	90	-	90	90
	54	90	127	90	90	-	90	90
	59 1/2	90	127	90	90	-	90	90
	61 1/2	90	90	90	90	-	-	-
	66	83.8	83.8	-	83.8	-	-	-
	72	83.7	83.7	-	83.7	-	-	-
	79	83.7	83.7	-	83.7	-	-	-
73 3/4	42	90	127	90	90	-	90	90
	48	90	127	89.1	90	-	90	90
	50	90	127	87.3	90	-	90	90
	52 5/8	90	90	85.2	90	-	90	90
	55 1/4	90	90	83.5	90	-	82	82
	57	90	90	82.5	90	-	-	-
	66	73.6	73.6	-	73.6	-	-	-
	73 1/4	72.8	72.8	-	72.8	-	-	-
81 1/2	42	83.7	127	83.7	83.7	-	82.3	82.3
	45	80.1	127	80.1	80.1	-	78.7	78.7
	50	75.3	75.3	75.3	75.3	-	74	74
	51 5/8	74	74	74	74	-	-	-
	54	66.2	66.2	-	66.2	-	-	-
	60	63.1	63.1	-	63.1	-	-	-
	66	60.9	60.9	-	60.9	-	-	-
92 1/4	40 1/8	67.3	127	-	67.3	-	-	-
	48	59.5	59.5	-	59.5	-	-	-
	54	55.3	55.3	-	55.3	-	-	-
	58 1/2	52.9	52.9	-	52.9	-	-	-
98 1/2	42	59.9	59.9	-	59.9	-	-	-
	48	57.6	57.6	-	57.6	-	-	-
	54 7/8	50	50	-	50	-	-	-



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
1521 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	4
SHEET:	21/42

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
REVISION	-	12/16/24	-
2023 CODE UPDATE	-	10/15/23	-
1ST SUBMITTAL	-	10/12/20	-

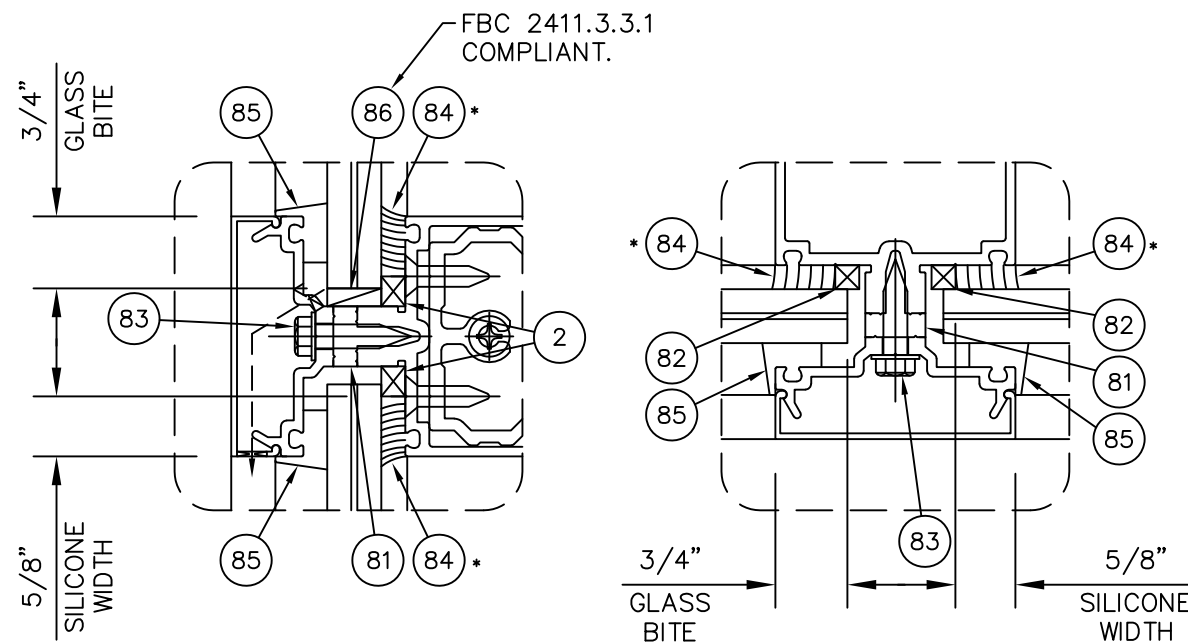
LARGE AND SMALL MISSILE GLAZING CAPTURED VERTICALS

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 39 FOR GLAZING MATERIALS

GLASS CHART												
GLASS TYPES 1 & 2 (LMI/SMI)												
TESTED DLO'S = 58 1/2"x93 1/2" (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	60	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	-	-	-	-
91	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 (LMI/SMI)												
TESTED DLO'S = 58 1/2"x93 1/2" (90 psf), 70 1/2"x94 1/2" (+70/-90 psf struct, +90/-100 cycle)												
ALLOWABLE DESIGN PRESSURE (psf)												
DLO HEIGHT (in)	DLO WIDTH (in)											
	38	39	42	45	48	52	60	66	70 1/2	78	84	93 1/2
58 1/2	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+85/-100
71	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+73/-94	+70/-90
74 1/4	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+75/-97	+70/-90	-
79	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+72/-95	-	-
85	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+82/-100	+75/-99	+70/-90	-	-
94 1/2	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+82/-100	+75/-96	+70/-90	-	-	-
101	+90/-100	+90/-100	+90/-100	+90/-100	+90/-100	+89/-100	+76/-98	+70/-90	-	-	-	-
111	+90/-100	+90/-100	+90/-100	+90/-100	+87/-100	+81/-100	+70/-90	-	-	-	-	-
120	+90/-100	+90/-100	+90/-100	+84/-100	+79/-100	+75/-97	-	-	-	-	-	-
128	+90/-100	+90/-100	+86/-100	+80/-100	+75/-97	+70/-90	-	-	-	-	-	-
138	+88/-100	+86/-100	+80/-100	+74/-96	+70/-90	-	-	-	-	-	-	-
144	+83/-100	+80/-100	+75/-96	+70/-90	-	-	-	-	-	-	-	-
GLASS TYPE 4 (LMI/SMI)												
TESTED DLO'S = 58 1/2"x93 1/2" (90 psf)												
ALLOWABLE DESIGN PRESSURE (psf)												
DLO HEIGHT (in)	DLO WIDTH (in)											
	38	39	42	45	48	54	58 1/2	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	-	-	-
83	90	90	90	90	90	90	90	90	-	-	-	-
93 1/2	90	90	90	90	90	90	90	-	-	-	-	-
101	90	90	90	90	90	90	-	-	-	-	-	-
114	90	90	90	90	90	-	-	-	-	-	-	-
121	90	90	90	90	-	-	-	-	-	-	-	-
130	90	90	90	-	-	-	-	-	-	-	-	-
140	90	90	-	-	-	-	-	-	-	-	-	-
144	90	-	-	-	-	-	-	-	-	-	-	-

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:
1600 WALL
SYSTEM 1 & 2

1600-IR-HVHZ

SECTION: 5

SHEET: 22/42

[illegible]

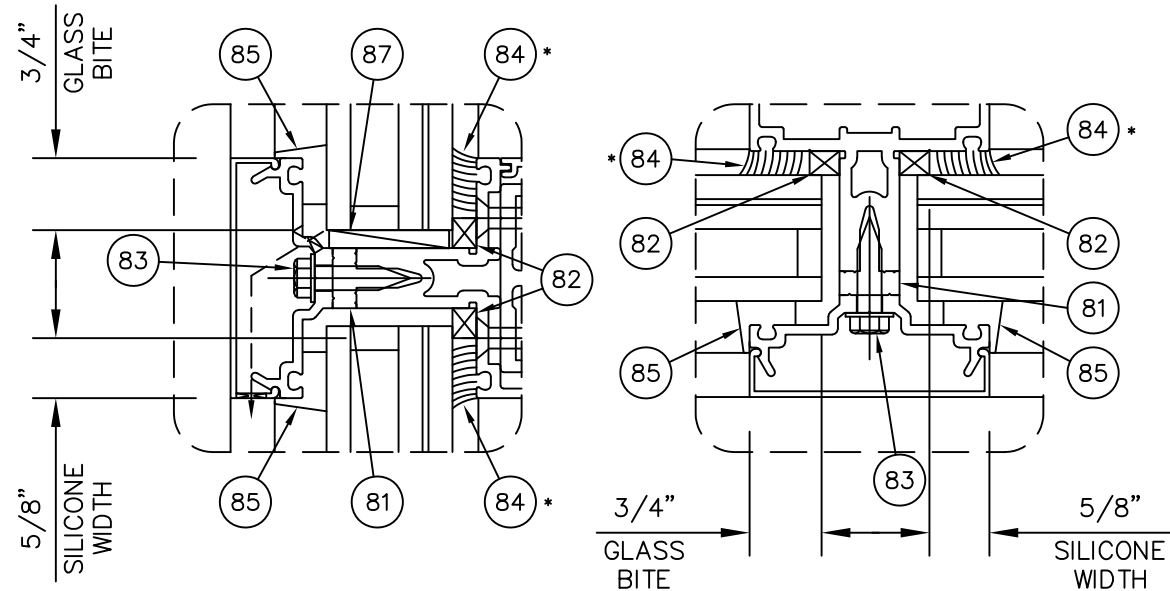
KAWNEER
AN ARCONIC COMPANY

555 GUTHRIDGE COURT
NORCROSS, GA 30092

PH: (770) 449-5555
WWW.KAWNEER.COM

LARGE AND SMALL MISSILE GLAZING CAPTURED VERTICALS

GLASS TYPE 8 - 1/4" H.S. or TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.075" SAFLEX STORM 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 39 FOR GLAZING MATERIALS

[illegible]

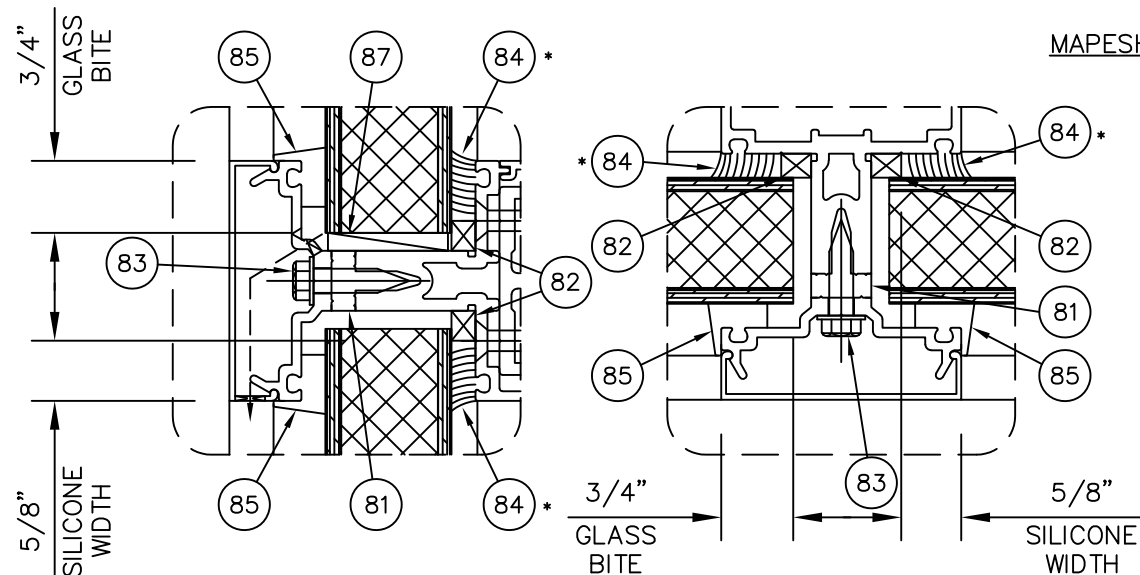
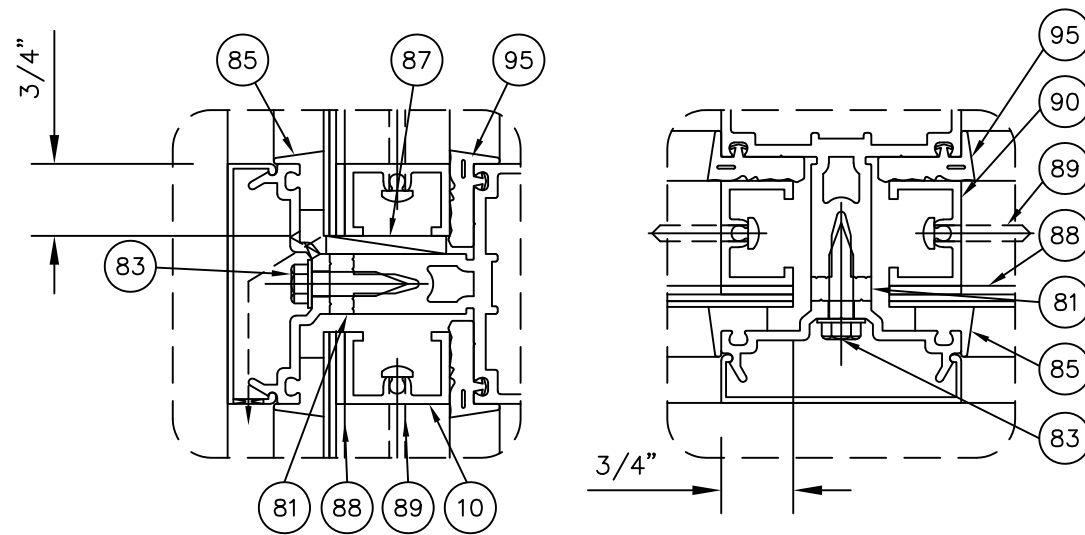
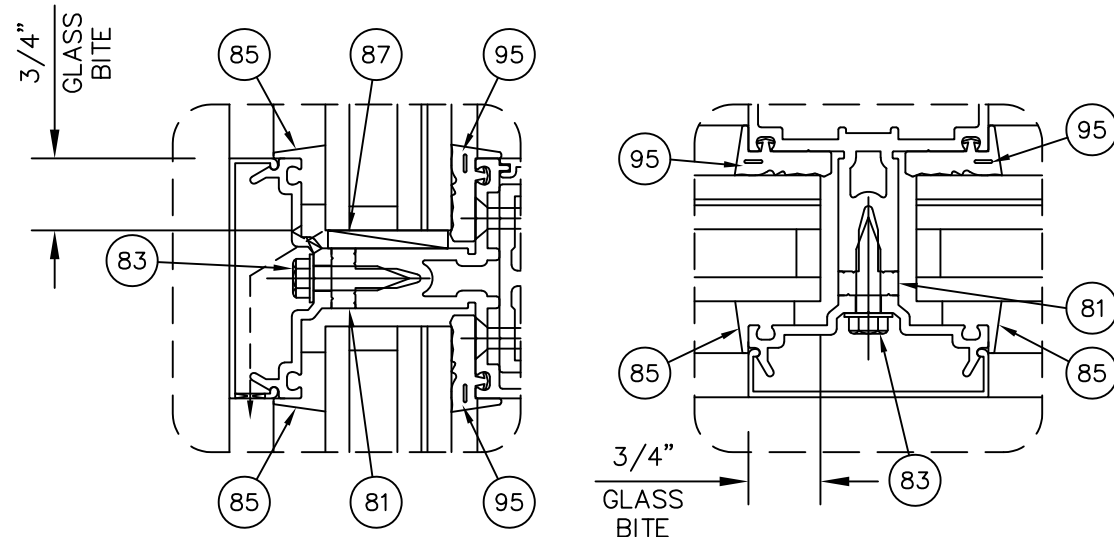
GLAZING NOTES:

1. IN THE HVHZ, THE HEAT STRENGTHENED OUTER LITE FOR GLASS TYPES 5,6, & 8 ARE NOT APPROVED FOR USE MORE THAN 30 ft. ABOVE GRADE.
2. SETTING BLOCKS 86 AND 87 MEET THE REQUIREMENTS OF FBC SECTION 2411.3.3.1, AND ARE INSTALLED (2) PER LITE.

SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982	KAWNEER AN ARCONIC COMPANY	—	—	
PRODUCT:		1600 WALL SYSTEM 1 & 2	—	—
DWG:		1600-IR-HVHZ	—	—
SECTION:		5	—	—
SHEET:		23/42	—	—
			REVISION	12/16/24
			2023 CODE UPDATE	10/15/23
		1ST SUBMITTAL	10/12/20	
		PRINTS ISSUED FOR	REV #	
		PH: (770) 449-5555 WWW.KAWNEER.COM	DATE	

LARGE AND SMALL MISSILE GLAZING CAPTURED VERTICALS

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



RENOBOND ACM PANEL:
0.130" RENOBOND 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.

MAPESHIELD PANEL:
26 Ga. ALUMINUM SKIN
1/8" TEMPERED HARDBOARD
24 Ga. GALVANIZED STEEL
3/4" FOAM CORE
1/8" TEMPERED HARDBOARD
26 GA. ALUMINUM SKIN

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

[illegible]

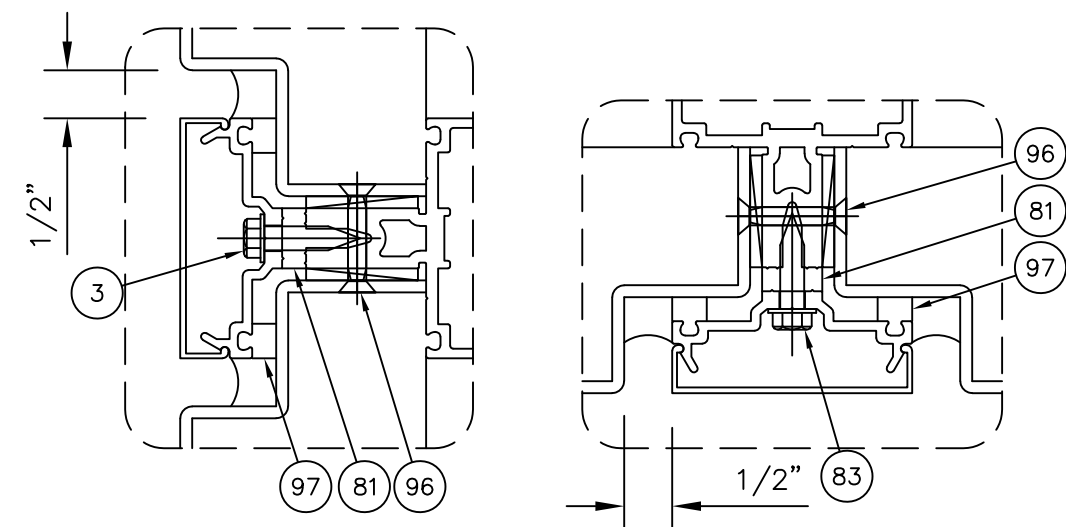
SEE SHEET 39 FOR GLAZING MATERIALS

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:

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

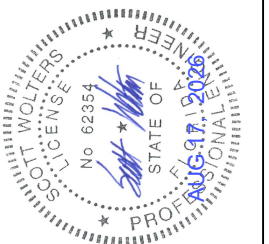
1/8" BRAKE METAL PANEL:
1/8" ALUMINUM BRAKE METAL

[illegible]

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SEAL

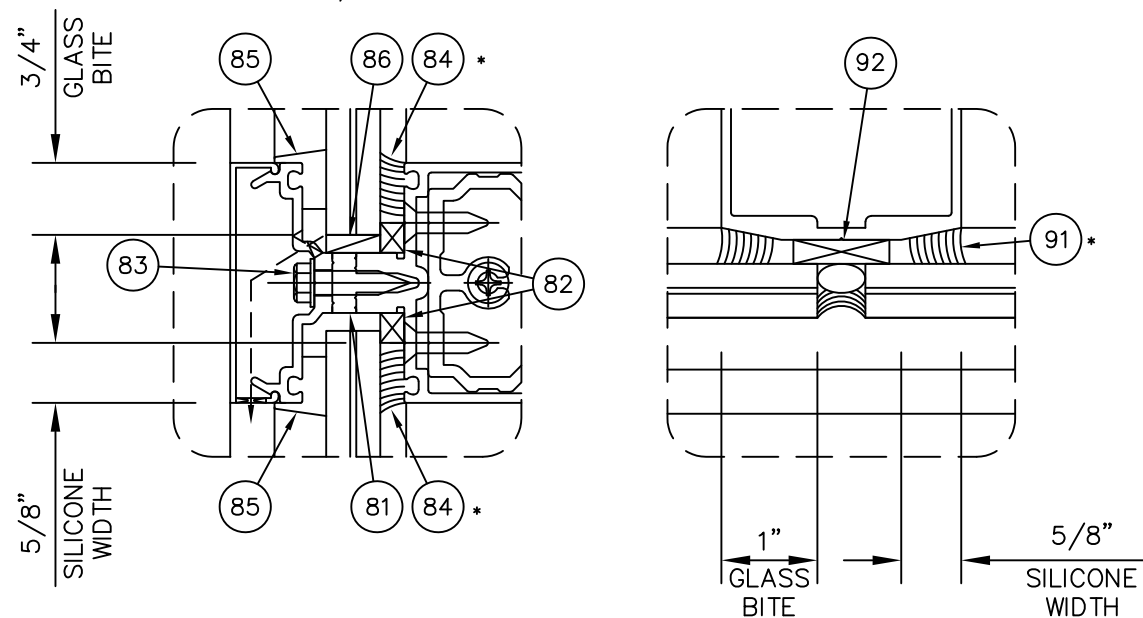
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

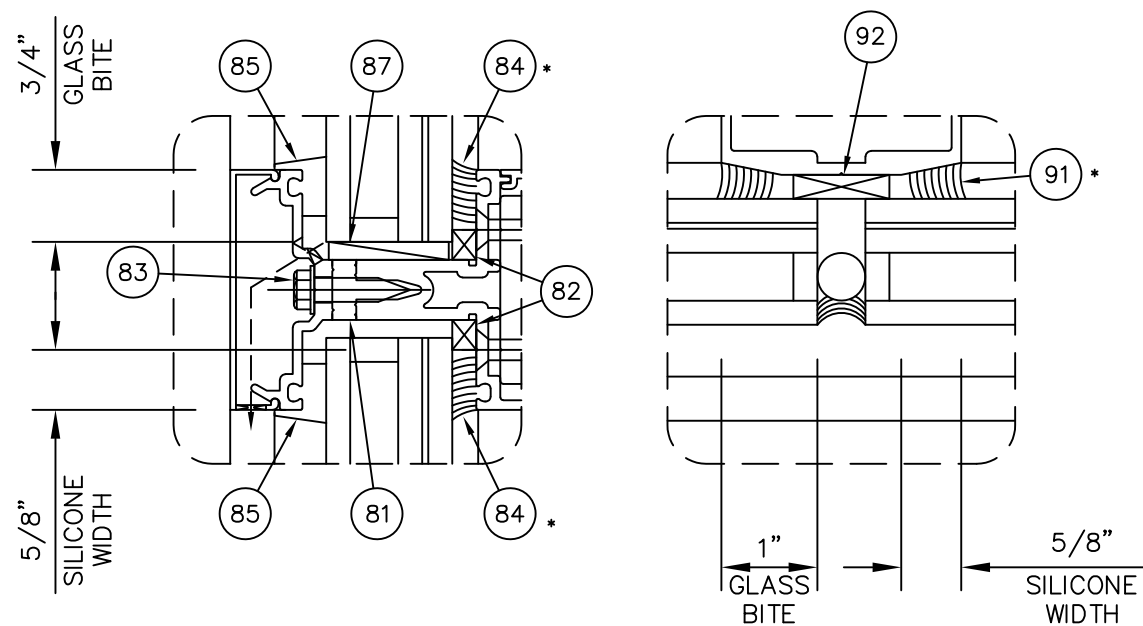
PRODUCT:	1600 WALL SYSTEM 1 & 2
WG:	1600-IR-HVHZ
SECTION:	5
SHEET:	24/42

LARGE AND SMALL MISSILE GLAZING SSG VERTICALS

GLASS TYPE 9 - 1/4" HEAT STRENGTHENED
0.090" KURARAY SENTRYGLAS
1/4" HEAT STRENGTHENED



GLASS TYPE 10 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.100" SAFLEX HP INTERLAYER
1/4" HEAT STRENGTHENED



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

GLASS CHART

GLASS TYPE 9 (LMI/SMI)

TESTED DLO'S = 81 1/2"x30" (+60/-74 psf)

ALLOWABLE DESIGN PRESSURE (psf)	
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000

[illegible]

GLASS TYPE 10 (LMI/SMI)

TESTED DLO'S = 57 1/2"x93 1/2" (+/-60 psf)

ALLOWABLE DESIGN PRESSURE (psf)

[illegible]

GLAZING NOTES:

1. SETTING BLOCKS 86 AND 87 MEET THE REQUIREMENTS OF FBC SECTION 2411.3.3.1, AND ARE INSTALLED (2) PER LITE.

SEE SHEET 39 FOR GLAZING MATERIALS

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG: 1600-IR-HVHZ

SECTION: 5

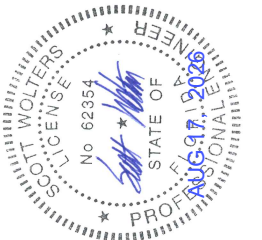
SHEET: 25 / 42



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[illegible]

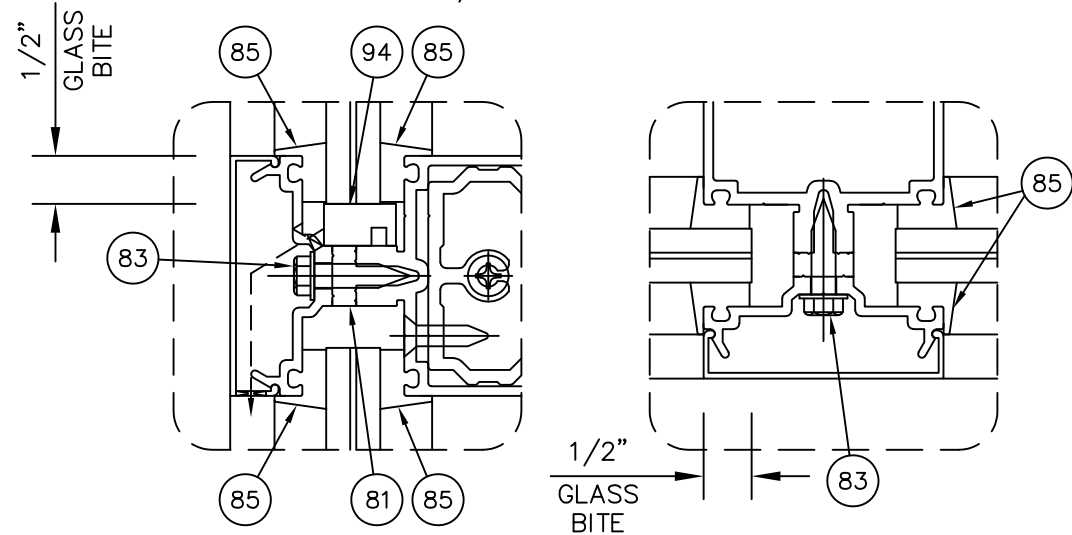
SMALL MISSILE ONLY GLAZING CAPTURED VERTICALS

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

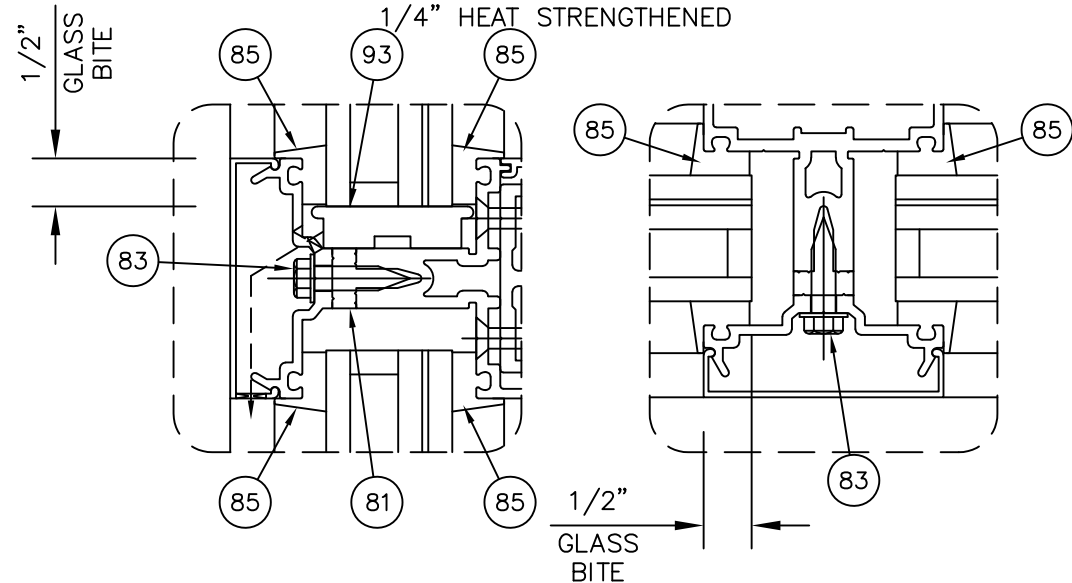
GLASS TYPE 13 - 1/4" HEAT STRENGTHENED
0.090" SAFLEX PVB INTERLAYER
1/4" HEAT STRENGTHENED

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)												
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), 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	-	-	-	-	-	-	-	-

GLAZING NOTES:

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

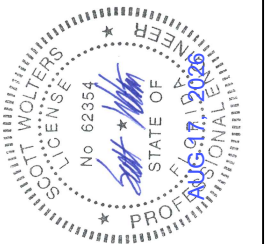
SEE SHEET 39 FOR GLAZING MATERIALS

—	REVISION	12/16/24	DATE
—	2023 CODE UPDATE	10/15/23	DATE
—	1ST SUBMITTAL	10/12/20	DATE
—	PRINTS ISSUED FOR	REV.#	DATE

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SEAL

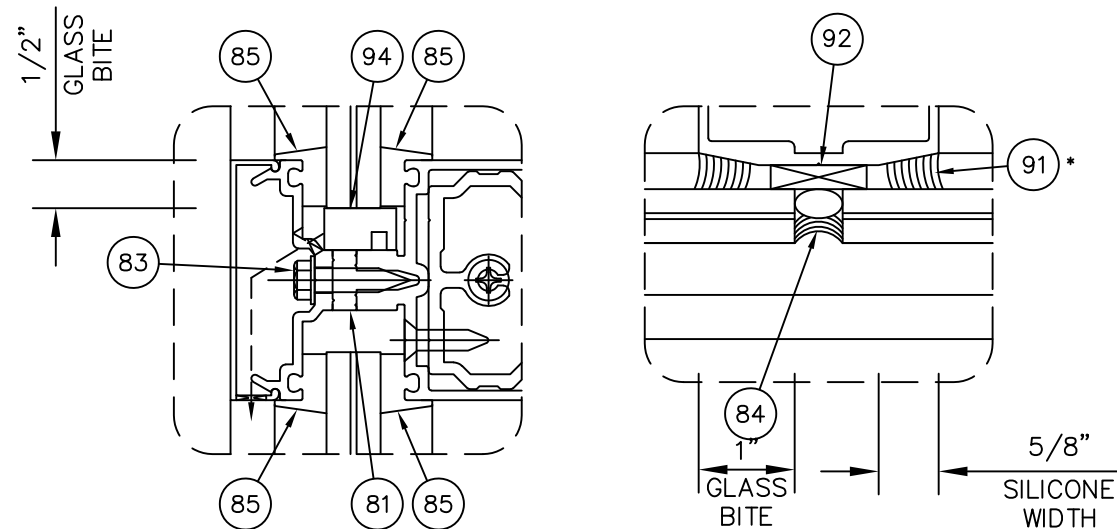
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

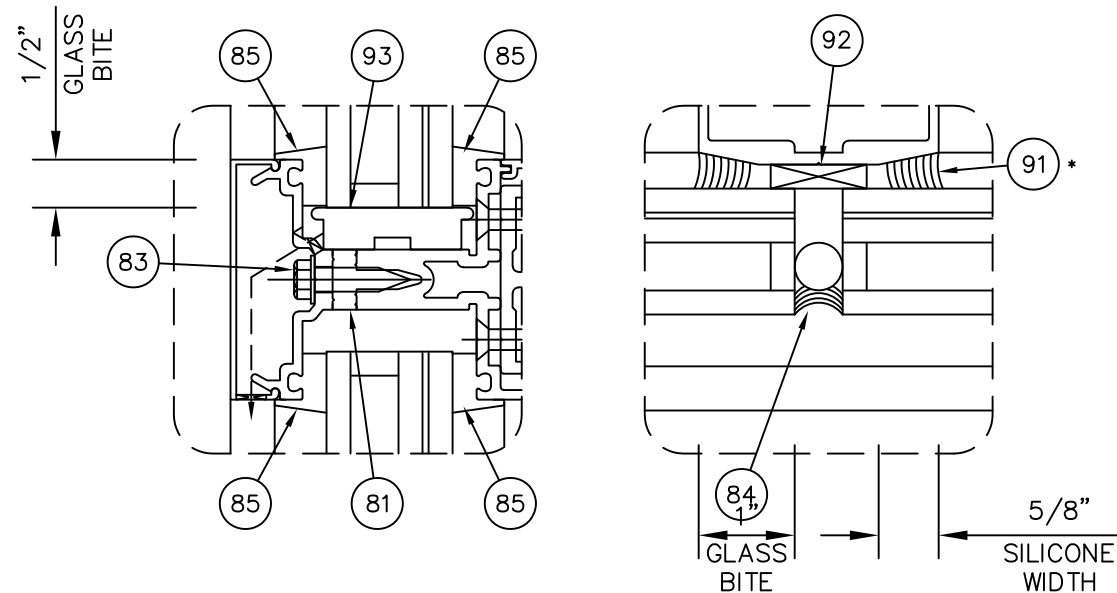
PRODUCT:	1600 WALL SYSTEM 1 & 2
WG:	1600-IR-HVHZ
SECTION:	5
SHEET:	26/42

SMALL MISSILE ONLY GLAZING SSG VERTICALS

GLASS TYPE 17 - 1/4" HEAT STRENGTHENED
0.060" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED



GLASS TYPE 18 - 1/4" TEMPERED
1/2" AIR SPACE (ALUM SPACER)
1/4" HEAT STRENGTHENED
0.060" SAFLEX PVB 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.

[illegible]

GLAZING NOTES:

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

SEE SHEET 39 FOR GLAZING MATERIALS

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:
1600 WALL
SYSTEM 1 & 2

DWG: 1600-IR-HVHZ

SECTION: 5

SHEET: 27 / 42

A circular professional engineer seal for Scott Wolters. The outer ring contains the text "SCOTT WOLTERS" on the left and "PROFESSIONAL ENGINEER" on the right, separated by two stars. The inner circle contains the text "STATE OF FLORIDA" at the bottom, separated by two stars. In the center, the license number "No. 62354" is printed. A blue ink signature "Scott Wolters" is written across the center. To the right of the signature, the date "AUG 17, 2029" is stamped in blue ink.



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AN ARCONIC COMPANY

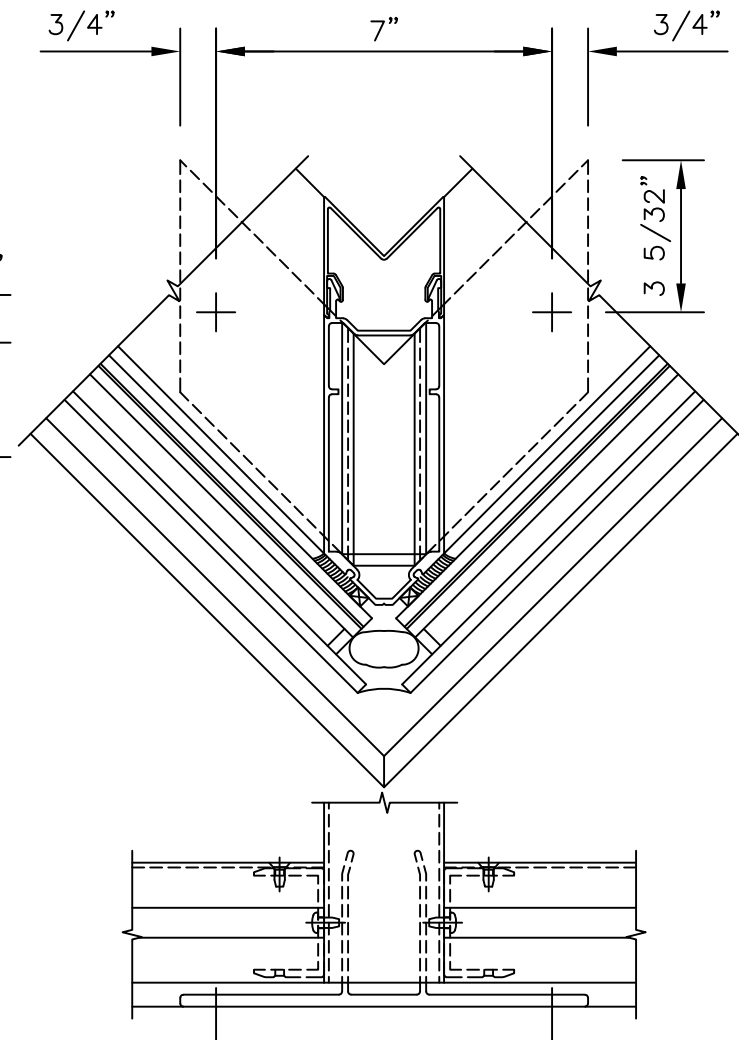
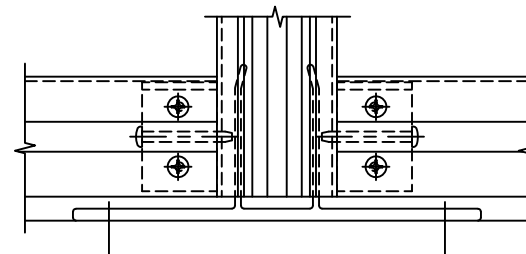
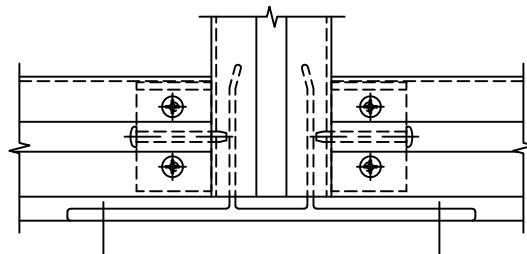
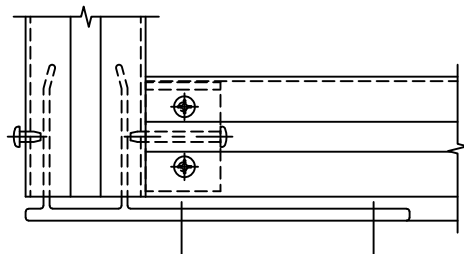
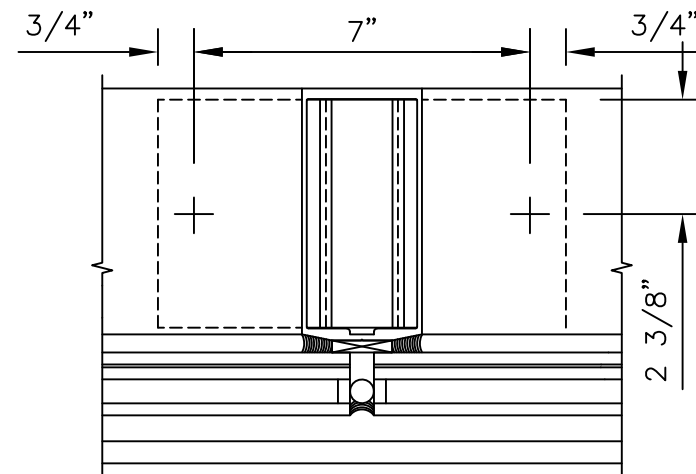
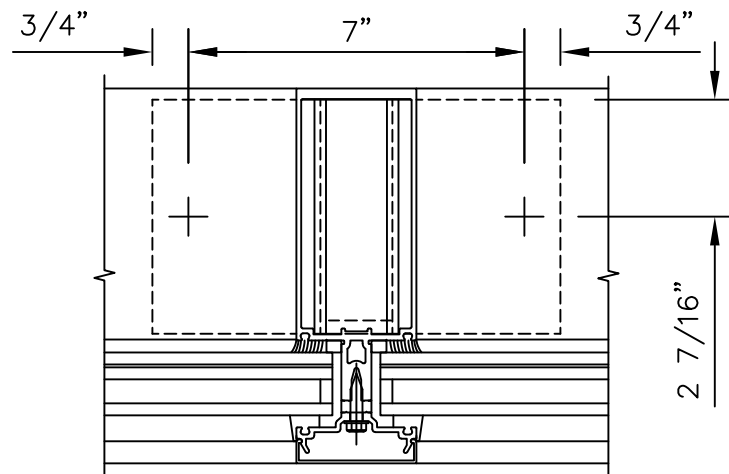
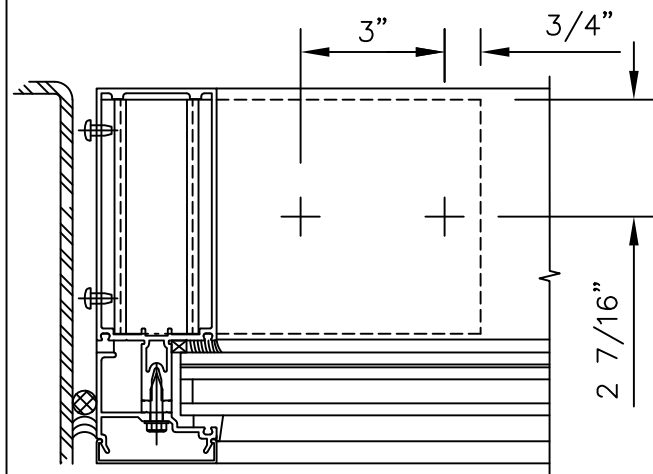
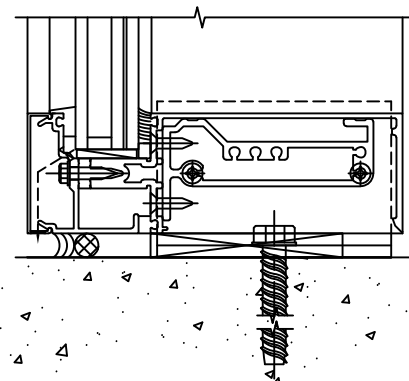
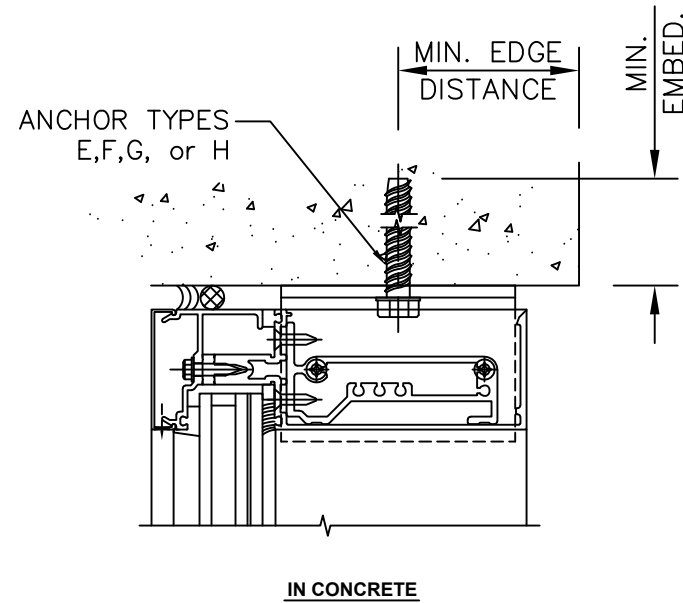
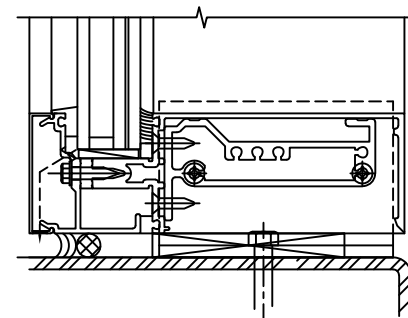
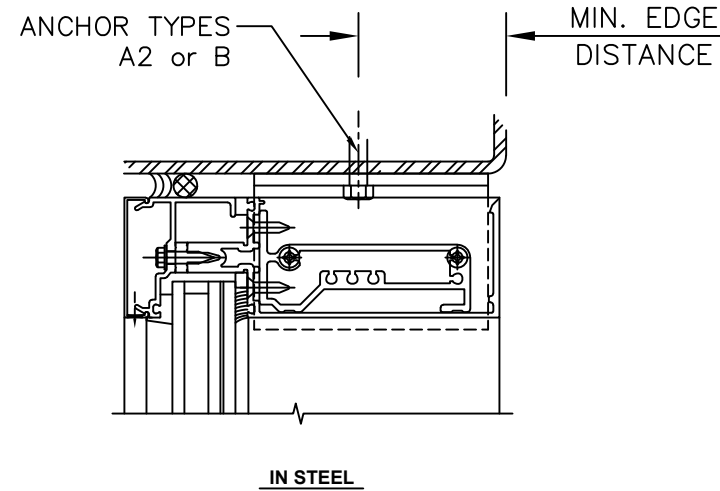
555 GUTHRIDGE COURT
NORCROSS, GA 30092

PH: (770) 449-5555
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[illegible]

HEAD/SILL ANCHOR DETAILS

**SEE CHART ON SHEET 31 FOR
FASTENER & SUBSTRATE INFORMATION.**

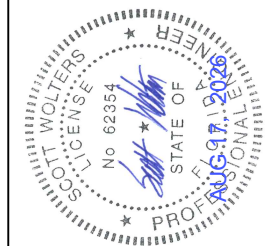


SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	6
SHEET:	28/42



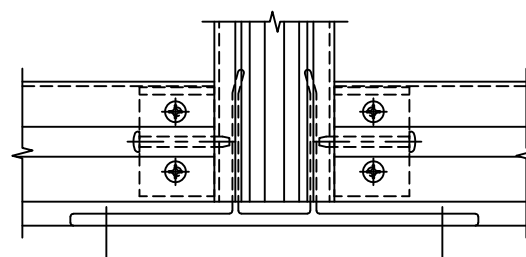
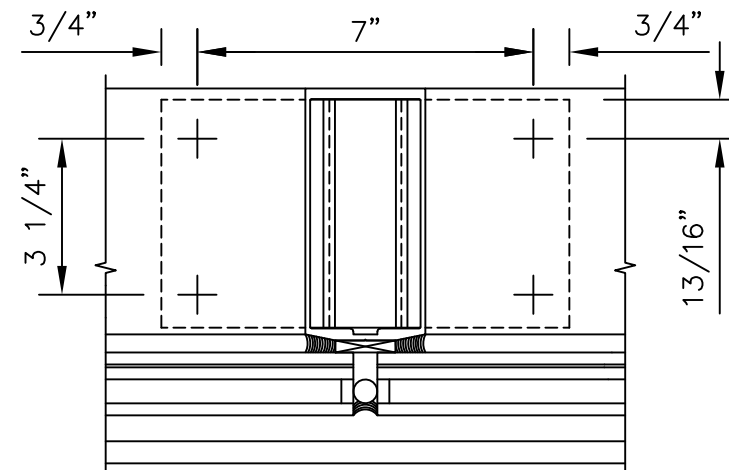
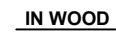
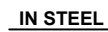
KAWNEER
AN ARCONIC COMPANY

PH: (770) 449-5555
WWW.KAWNEER.COM

555 GUTHRIDGE COURT
MIDROSS CA 90062

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REVISION	—	12/16/24
2023 CODE UPDATE	—	10/15/23
1ST SUBMITTAL	—	10/12/20
PRINTS ISSUED FOR	REV #	DATE

**SEE CHART ON SHEET 31 FOR
FASTENER & SUBSTRATE INFORMATION.**



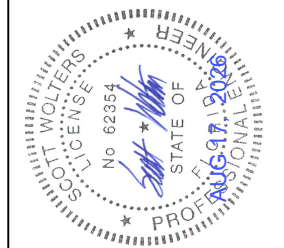
CORNER ANCHORS
ARE SIMILAR

-		-	-
-		-	-
-		-	-
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REVISION		-	12/16/24
2023 CODE UPDATE		-	10/15/23
1ST SUBMITTAL		-	10/12/20
PRINTS ISSUED FOR		REV.#	DATE

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SEAL:

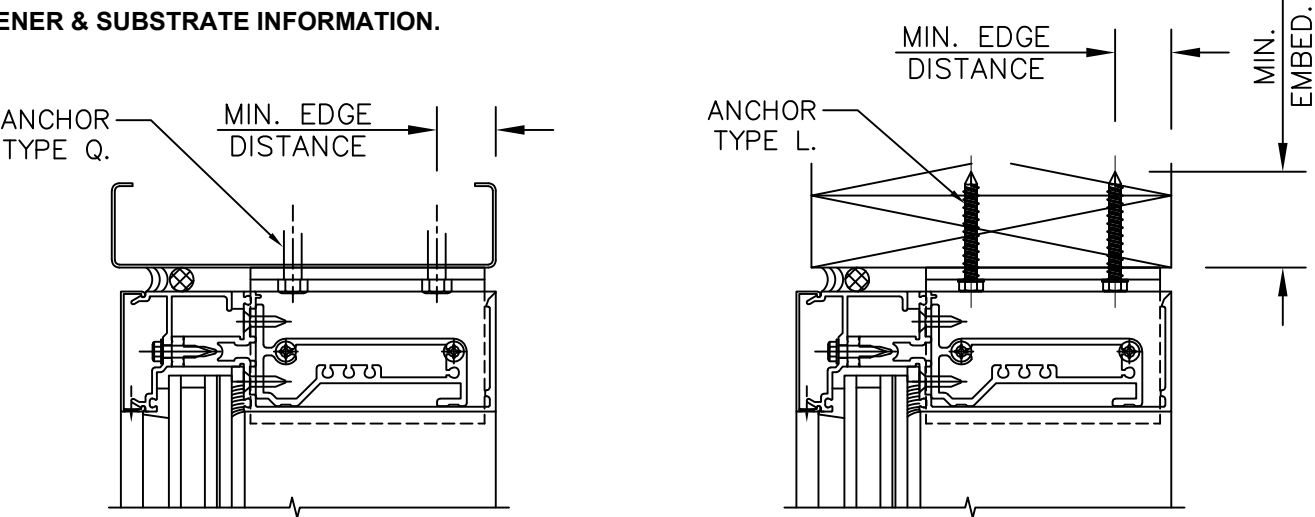
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	6
SHEET:	29/42

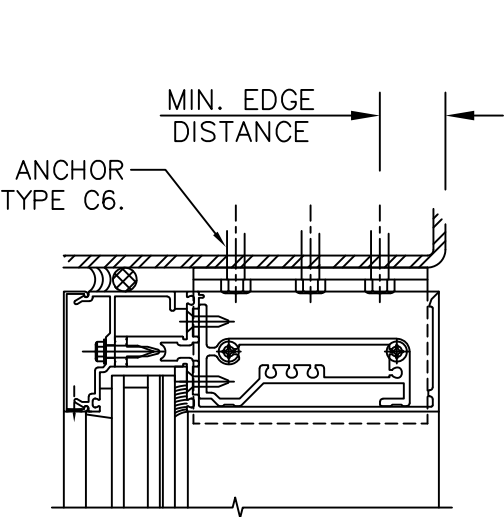
HEAD/SILL ANCHOR DETAILS

SEE CHART ON SHEET 31 FOR
FASTENER & SUBSTRATE INFORMATION.

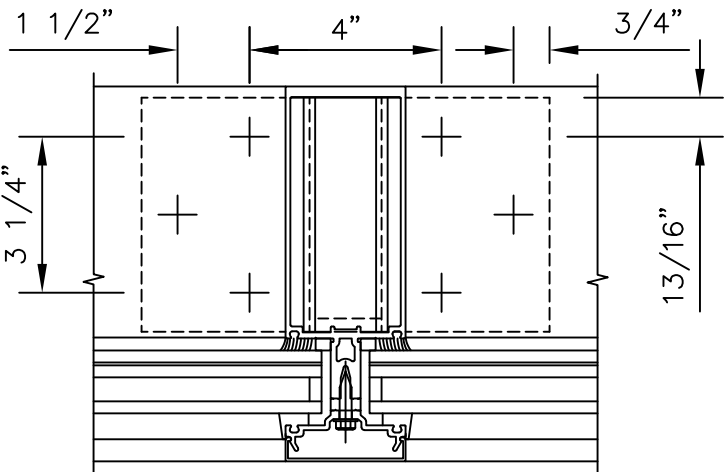
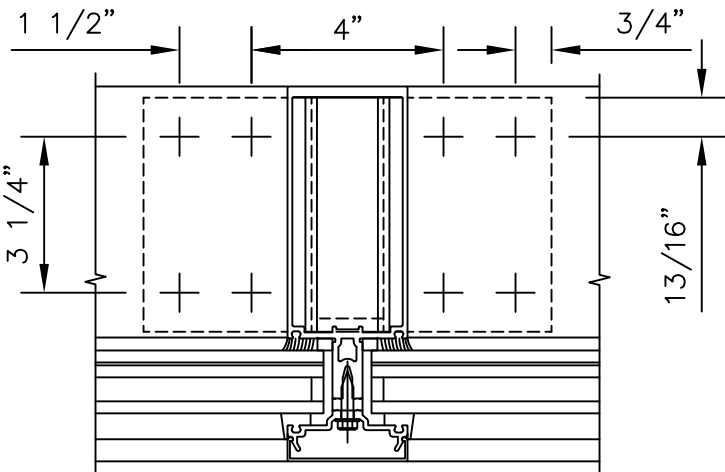
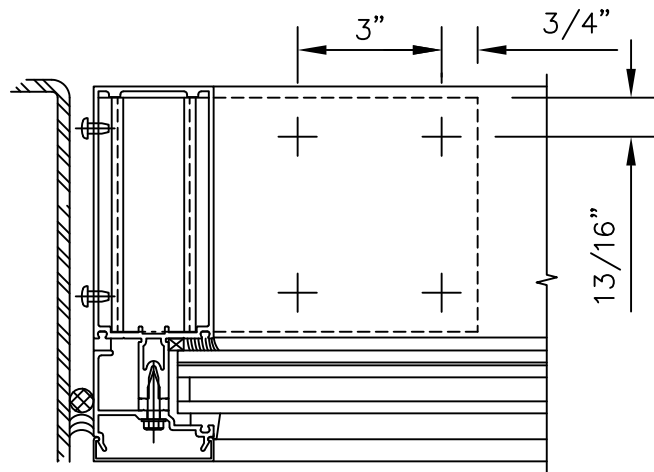


IN METAL STUD

IN WOOD



IN STEEL



SSG MULLION ANCHORS
AND CORNER ANCHORS
ARE SIMILAR

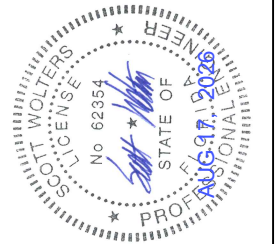
12/16/24	10/15/23	10/12/20	DATE
REVISION	2023 CODE UPDATE	1ST SUBMITTAL	PRINTS ISSUED FDR
12/16/24	10/15/23	10/12/20	DATE



KAWNEER
AN ARCONIC COMPANY

555 GUTHRIDGE COURT
NORCROSS, GA 30092

PH: (770) 449-5555
WWW.KAWNEER.COM



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

PRODUCT:
**1600 WALL
SYSTEM 1 & 2**

DWG:
1600-IR-HVHZ

SECTION:
6

SHEET:
30/42

HEAD/SILL ANCHOR CHARTS

ANCHOR CHART AND ALLOWABLE LOADS AT SINGLE-SPAN MULLIONS

HEAD/SILL ANCHORS							
SUBSTRATE	MARK	TYPE	QUANTITY		MIN EMBED (in)	MIN EDGE DISTANCE (in)	MAX. END REACTION (lb)
			MULLION	JAMB			
STRUCTURAL STEEL (1/4", A36 min)	A2	3/8" DIA. F-TYPE SCREW ⁴ or BOLT (Fu=120 ksi min) ⁴	2	2	FULL*	3/4"	2175 lb.
	A4	3/8" DIA. F-TYPE SCREW ⁴ or BOLT (Fu=120 ksi min) ⁴	4	2	FULL*	3/4"	3150 lb.
	B	1/2" DIA. F-TYPE SCREW ⁵ or BOLT (Fu=120 ksi min) ⁵	2	2	FULL*	1"	3710 lb.
	C4	5/16"-24 DEWALT DRIL-FLEX	4	4	FULL*	1/2"	3150 lb.
	C6	5/16"-24 DEWALT DRIL-FLEX	6	4	FULL*	3/4"	3710 lb.
CONCRETE (4000 psi min)	E1	3/8" DIA. WEDGE -TYPE	2	2	3 1/2"	4 1/2"	2625 lb.
	E2	CONCRETE ANCHOR ¹				2 1/2"	1800 lb.
	F1	1/2" DIA. WEDGE-TYPE	2	2	3 1/2"	6"	2900 lb.
	F2	CONCRETE ANCHOR ¹				3"	1990 lb.
	G1	1/2" DIA. STUD -TYPE	2	2	3 1/2"	6"	2625 lb.
	G2	CONCRETE ANCHOR ²				3 1/2"	1800 lb.
	H1	1/2" DIA. SLEEVE -TYPE				6"	2645 lb.
WOOD (S.G.=0.55 min)	H2	CONCRETE ANCHOR ³	2	2	3 1/2"	3 1/2"	1550 lb.
	J	3/8" DIA. LAG SCREW (Fu=75 ksi min) ⁴				1 7/8"	1660 lb.
	K	5/16" DEWALT ULTRACON	4	4	2"	1 5/8"	1675 lb.
	L	1/4" DIA. SELF-DRILLING SCREW ⁶ or DEWALT ULTRACON	8	4	1 1/2"	1 1/4"	2175 lb.
STRUCTURAL STEEL (1/8", A36 min)	M	1/4" DIA. SELF-DRILLING ⁶ or F-TYPE SCREW (Fu=120 ksi min) ⁴	4	4	FULL*	1/2"	2175 lb.
CONCRETE (3500 psi min)	N1	5/16" DIA. DEWALT ULTRACON	4	4	1 3/4"	3 1/8"	1800 lb.
CONCRETE (3050 psi min)	N2					2 1/2"	1580 lb.
METAL STUD (16 Ga, 45 ksi min)	P1	1/4" DIA. DEWALT ULTRACON	4	4	1 3/4"	2 1/2"	1400 lb.
	P2					1 3/4"	1050 lb.
	Q	1/4" DIA. SELF-DRILLING SCREW (Fu=120 ksi min) ⁶	8	4	FULL*	1/2"	2100 lb.
	R	1/4" DIA. SELF-DRILLING SCREW (Fu=120 ksi min) ⁶	4	4	FULL*	1/2"	1450 lb.

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 BOLT 3, AND SIMPSON STRONG-TIE STRONG-BOLT 2.
3. SLEEVE-TYPE ANCHORS INCLUDE DeWALT POWER-BOLT+, HILTI HSL-3, AND SIMPSON STRONG-TIE SLEEVE-ALL.
- * FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

CORROSION RESISTANCE NOTES:

WITHIN 3000 ft OF A SALTWATER COASTLINE:

1. WEDGE-TYPE ANCHORS INCLUDE KWIK HUS-EZ SS316, MECHANICALLY GALVANIZED SIMPSON STRONG-TIE TITAN HD, OR STAINLESS STEEL SIMPSON STRONG-TIE TITAN HD.
2. STUD-TYPE ANCHORS INCLUDE HILTI KWIK BOLT 3 STAINLESS STEEL, HILTI KWIK-BOLT 3 HOT-DIP GALVANIZED, SIMPSON STRONG-TIE STAINLESS STEEL STRONG-BOLT 2, OR SIMPSON STRONG-TIE MECHANICALLY GALVANIZED STRONG-BOLT 2.
3. SLEEVE-TYPE ANCHORS INCLUDE DEWALT STAINLESS STEEL POWER-BOLT OR HILTI HSL-3 STAINLESS STEEL.
4. FASTENERS MUST BE EITHER:

A. GALVANIZED TO MEET ASTM A153, CLASS C.

B. GALVANIZED TO MEET ASTM A641 CLASS 3S.

C. COATED TO EXHIBIT <5% RED RUST AFTER 1000 HOURS OF EXPOSURE PER ASTM B117

D. 300 SERIES STAINLESS STEEL (Fu=100 ksi min).
5. FASTENERS MUST BE EITHER:

A. GALVANIZED TO MEET ASTM A153, CLASS C.

B. 300 SERIES STAINLESS STEEL (Fu=100 ksi min).
6. USE DEWALT DRIL-FLEX, DEWALT BI-FLEX, OR OTHER FASTENER MEETING THE REQUIREMENTS OF NOTE #4 ABOVE.

ANCHOR CONFIGURATIONS A4, B, & C6 ARE APPROVED FOR ALL MULLION SIZES & PRESSURES SHOWN IN THE MULLION CHARTS ON SHEETS 14,15,19.

HEAD/SILL ANCHORS - ALLOWABLE DESIGN PRESSURES																					
MULLION HEIGHT (in)	MULLION WIDTH (in)	DESIGN PRESSURES FOR SINGLE SPAN MULLIONS (psf)																			
		ANCHOR CONFIGURATION																			
		A2	C4	E1	E2	F1	F2	G1	G2	H1	H2	J	K	L	M	N1	N2	P1	P2	Q	R
72	61	130	130	130.0	118.0	130	130	130	118.0	130	101.6	108.9	109.8	130	130	118.0	103.6	91.8	68.9	130	95.1
	72	110.1	110.1	110.1	100.0	110.1	110.1	110.1	100.0	110.1	86.1	92.2	93.1	110.1	110.1	100.0	87.8	77.8	58.3	110.1	80.6
	84	94.4	94.4	94.4	85.7	94.4	94.4	94.4	85.7	94.4	73.8	79.0	79.8	94.4	94.4	85.7	75.2	66.7	50.0	94.4	69.0
	96	82.6	82.6	82.6	75.0	82.6	82.6	82.6	75.0	82.6	64.6	69.2	69.8	82.6	82.6	75.0	65.8	58.3	43.8	82.6	60.4
84	54	127.5	127.5	127.5	114.3	127.5	126.3	127.5	114.3	127.5	98.4	105.4	106.3	127.5	127.5	114.3	100.3	88.9	66.7	127.5	92.1
	61	127.5	127.5	127.5	101.2	127.5	111.9	127.5	101.2	127.5	87.1	93.3	94.1	122.2	122.2	101.2	88.8	78.7	59.0	118	81.5
	72	108	108	108.0	85.7	108	94.8	108	85.7	108	73.8	79.0	79.8	103.6	103.6	85.7	75.2	66.7	50.0	100	69.0
	83	93.7	93.7	93.7	74.4	93.7	82.2	93.7	74.4	93.7	64.0	68.6	69.2	89.8	89.8	74.4	65.3	57.8	43.4	86.7	59.9
96	54	120.8	125	125.0	100.0	125	110.6	125	100.0	125	86.1	92.2	93.1	120.8	120.8	100.0	87.8	77.8	58.3	116.7	80.6
	61	107.0	125	125.0	88.5	125	97.9	125	88.5	125	76.2	81.6	82.4	107.0	107.0	88.5	77.7	68.9	51.6	103.3	71.3
	72	90.6	105.9	105.9	75.0	105.9	82.9	105.9	75.0	105.9	64.6	69.2	69.8	90.6	90.6	75.0	65.8	58.3	43.8	87.5	60.4
	84	77.7	90.8	90.8	64.3	90.8	71.1	90.8	64.3	90.8	55.4	59.3	59.8	77.7	77.7	64.3	56.4	50.0	37.5	75.0	51.8
114	96	68.0	79.4	79.4	56.3	79.4	62.2	79.4	56.3	79.4	48.4	51.9	52.3	68.0	68.0	56.3	49.4	43.8	32.8	65.6	45.3
	61	90.1	127	108.7	74.5	120.1	82.4	108.7	74.5	109.5	64.2	68.7	69.4	90.1	90.1	74.5	65.4	58.0	43.5	87.0	60.1
	72	76.3	110.5	92.1	63.2	101.8	69.8	92.1	63.2	92.8	54.4	58.2	58.8	76.3	76.3	63.2	55.4	49.1	36.8	73.7	50.9
	85	64.6	93.6	78.0	53.5	86.2	59.1	78	53.5	78.6	46.1	49.3	49.8	64.6	64.6	53.5	47.0	41.6	31.2	62.4	43.1
123	88 1/2	62.1	89.9	74.9	51.4	82.8	56.8	74.9	51.4	75.5	44.2	47.4	47.8	62.1	62.1	51.4	45.1	40.0	30.0	59.9	41.4
	96	57.2	82.9	69.1	47.4	76.3	52.4	69.1	47.4	69.6	40.8	43.7	44.1	57.2	57.2	47.4	41.6	36.8	27.6	55.3	38.2
	48	106.1	127.0	127.0	87.8	127	97.1	127	87.8	127.0	75.6	81.0	81.7	106.1	106.1	87.8	77.1	68.3	51.2	102.4	70.7
	52	97.9	127.0	118.2	81.1	127	89.6	118.2	81.1	119.1	69.8	74.7	75.4	97.9	97.9	81.1	71.1	63.0	47.3	94.6	65.3
132	56 3/8	90.3	127.0	109.0	74.8	120.4	82.7	109	74.8	109.9	64.4	68.9	69.6	90.3	90.3	74.8	65.6	58.1	43.6	87.2	60.2
	60	84.9	122.9	102.4	70.2	113.2	77.7	102.4	70.2	103.2	60.5	64.8	65.4	84.9	84.9	70.2	61.7	54.6	41.0	82.0	56.6
	68 3/8	74.5	107.9	89.9	61.6	99.3	68.1	89.9	61.6	90.6	53.1	56.8	57.4	74.5	74.5	61.6	54.1	47.9	36.0	71.9	49.7
	78 3/4	64.7	93.7	78.0	53.5	86.2	59.2	78	53.5	78.6	46.1	49.4	49.8	64.7	64.7	53.5	47.0	41.6	31.2	62.4	43.1
147	82	62.1	89.9	75.0	51.4	82.8	56.8	75	51.4	75.5	44.3	47.4	47.8	62.1	62.1	51.4	45.1	40.0	30.0	60.0	41.4
	86 1/2	58.9	85.3	71.1	48.7	78.5	53.9	71.1	48.7	71.6	42.0	44.9	45.3	58.9	58.9	48.7	42.8	37.9	28.4	56.8	39.2
	96	53.0	76.8	64.0	43.9	70.7	48.5	64	43.9	64.5	37.8	40.5	40.9	53.0	53.0	43.9	38.5	34.1	25.6	51.2	35.4
	42	113.0	127.0	127.0	93.5	127	103.4	127	93.5	127.0	80.5	86.2	87.0	113.0	113.0	93.5	82.1	72.7	54.5	109.1	75.3
156	48	98.9	127.0	119.3	81.8	127	90.5	119.3	81.8	120.2	70.5	75.5	76.1	98.9	98.9	81.8	71.8	63.6	47.7	95.5	65.9
	52 1/2	90.4	127.0	109.1	74.8	127	82.7	109.1	74.8	109.9	64.4	69.0	69.6	90.4	90.4	74.8	65.7	58.2	43.6	87.3	60.3
	60	79.1	114.4	95.5	65.5	105.5	72.4	95.5	65.5	96.2	56.4	60.4	60.9	79.1	79.1	65.5	57.5	50.9	38.2	76.4	52.7
	66	71.9	104.0	86.8	59.5	95.9	65.8	86.8	59.5	87.4	51.2	54.9	55.4	71.9	71.9	59.5	52.2	46.3	34.7	69.4	47.9
168	73 1/2	64.6	93.5	77.9	53.4	86.1	59.1	77.9	53.4	78.5	46.0	49.3	49.7	64.6	64.6	53.4	46.9	41.6	31.2	62.3	43.0
	76 1/4	62.2	90.1	75.1	51.5	83	56.9	75.1	51.5	75.7	44.4	47.5	47.9	62.2	62.2	51.5	45.2	40.1	30.0	60.1	41.5
	80 1/2	58.9	85.4	71.1	48.8	78.6	53.9	71.1	48.8	71.7	42.0	45.0	45.4	58.9	58.9	48.8	42.8	37.9	28.5	56.9	39.3
	88	53.9	74.0	65.1	44.6	71.9	49.3	65.1	44.6	65.6	38.4	41.2	41.5	53.9	53.9	44.6	39.2	34.7	26.0	52.1	36.0
183	96	49.4	65.8	59.7	40.9	65.8	45.2	59.7	40.9	60.1	35.2	37.7	38.1	49.4	49.4	40.9	35.9	31.8	23.9	47.7	33.0
	42	118.4	127.0	127.0	98.0	127	108.3	127	98.0	127.0	84.4	90.3	91.2	118.4	118.4	98.0	86.0	76.2	57.1	114.3	78.9
	46	101.5	127.0	122.4	84.0	127	92.8	122.4	84.0	123.4	72.3	77.4	78.1	101.5	101.5	84.0	73.7	65.3	49.0	98.0	67.6
	47	90.7	127.0	109.4	75.0	120.9	83.0	109.4	75.0	110.3	64.6	69.2	69.8	90.7	90.7	75.0	65.9	58.4	43.8	87.5	60.4
195	60	71.0	102.9	85.7	58.8	94.7	65.0	85.7	58.8	86.4	50.6	54.2	54.7	71.0	71.0	58.8	51.6	45.7	34.3	68.6	47.3
	66	64.6	93.5	77.9	53.4	86.1	59.1	77.9	53.4	78.5	46.0	49.3	49.7	64.6	64.6	53.4	46.9	41.6	31.2	62.3	43.0
	68 5/8	62.1	89.9	74.9	51.4	82.8	56.8	74.9	51.4	75.5	44.3	47.4	47.8	62.1	62.1	51.4	45.1	40.0	30.0	60.0	41.4
	72 1/4	59.0	85.0	71.2	48.8	78.6	54.0	71.2	48.8	71.7	42.0	45.0	45.4	59.0	59.0	48.8	42.8	38.0	28.5	56.9	39.3
204	80	53.3	74.4	64.3	44.1	71	48.7	64.3	44.1	64.8	38.0	40.7	41.0	53.3	53.3	44.1	38.7	34.3	25.7	51.4	35.5
	89	47.9	62.0	57.8	39.6	62	43.8	57.8	39.6	58.2	34.1	36.5	36.9	47.9	47.9	39.6	34.8	30.8	23.1	46.2	31.9
	41 1/4	111.5	127.0	127.0	92.3	127	102.1	127	92.3	127.0	79.5	85.1	85.9	111.5	111.5	92.3	81.0	71.8	53.8	107.7	74.4
	44 1/2	97.3	126.2	117.5	80.6	126.2	89.1	117.5	80.6	118.4	69.4	74.3	75.0	97.3	97.3	80.6	70.7	62.7	47.0	94.0	64.9
216	52	90.2	117.0	108.9	74.7	117	82.6	108.9	74.7	109.7	64.3	68.9	69.5	90.2	90.2	74.7	65.5	58.1	43.6	87.1	60.2
	54	74.4	96.4	89.7	61.5	96.4	68.0	89.7	61.5	90.4	53.0	56.8	57.3	74.4	74.4	61.5	54.0	47.9	35.9	71.8	49.6
	62	64.8	84.0	78.2	53.6	84	59.3	78.2	53.6	78.8	46.2	49.4	49.9	64.8	64.8	53.6	47.0	41.7	31.3	62.5	43.2
	64 1/2	62.3	80.7	75.1	51.5	80.7	57.0	75.1	51.5	75.7	44.4	47.5	47.9	62.3	62.3	51.5	45.2	40.1	30.1	60.1	41.5
219	72	55.8	72.3	67.3	46.2	72.3	51.0	57.3	46.2	67.8	39.7	42.6	42.9	55.8	55.8	46.2	40.5	35.9	26.9	53.8	37.2
	84	47.8	62.0	57.7	39.6	62	43.7	57.7	39.6	58.1	34.1	36.5	36.8	47.8	47.8	39.6	34.7	30.8	23.1	46.2	31.9
	36	103.6	124.9	124.9	85.7	124.9	94.8	124.9	85.7	124.9	73.8	79.0	79.8	103.6	103.6	85.7	75.2	66.7	50.0	100.0	69.0
	41	90.9	109.6	109.6	75.3	109.6	83.2	109.6	75.3	109.6	64.8	69.4	70.0	90.9	90.9	75.3	66.1	58.5	43.9	87.8	60.6
225	50	74.6	89.9	89.9	61.7	89.9	68.2	89.9	61.7	89.9	53.1	56.9	57.4	74.6	74.6	61.7	54.2	48.0	36.0	72.0	49.7
	54	64.8	78.2	78.2	53.7	78.2	59.3	78.2	53.7	78.2	46.2	49.5	49.9	64.8	64.8	53.7	47.1	41.7	31.3	62.6	43.2
	60	62.1	74.9	74.9	51.4	74.9	56.9	74.9	51.4	74.9	44.3	47.4	47.9	62.1	62.1	51.4	45.1	40.0	30.0	60.0	41.4
	69	54.0	65.1	65.1	44.7	65.1	49.4	65.1	44.7	65.1	38.5	41.2	41.6	54.0	54.0	44.7	39.3	34.8	26.1	52.2	36.0
231	78	47.8	57.6	57.6	39.6	57.6	43.7	57.6	39.6	57.6	34.1	36.5	36.8	47.8	47.8	39.6	34.7	30.8	23.1	46.2	31.9
	37	97.3	117.3	117.3	80.5	117.3	89.0	117.3	80.5	117.3	69.3	74.3	74.9	97.3	97.3	80.5	70.7	62.6			

**ALLOWABLE LOADS FOR HEAD/SILL ANCHORS
AT MULTI-SPAN MULLIONS WITH EQUAL SPANS.**

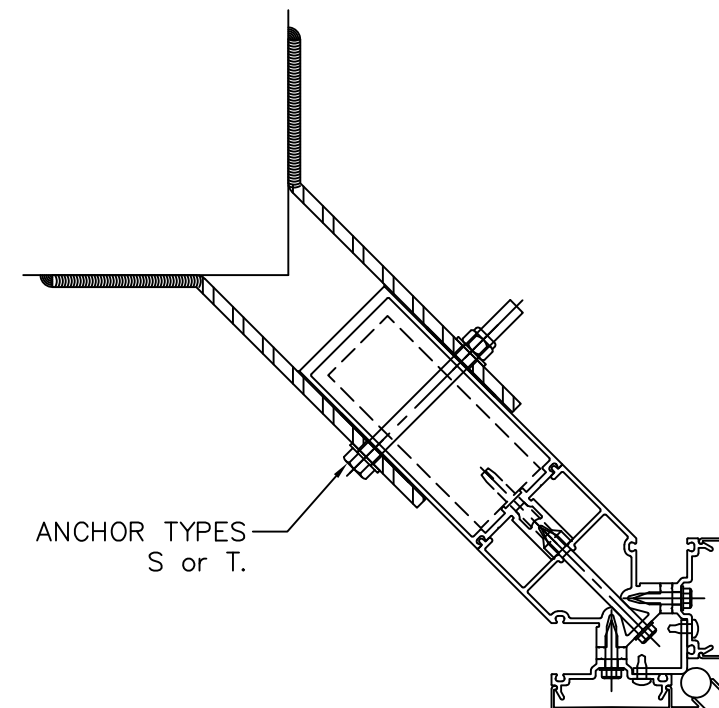


ANCHOR NOTE:

1. THE ALLOWABLE ANCHOR DESIGN PRESSURES LISTED ARE FOR MULTI-SPAN MULLIONS WITH EQUAL SPANS. ALLOWABLE DESIGN PRESSURES FOR UNEQUAL SPANS WILL REQUIRE PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.

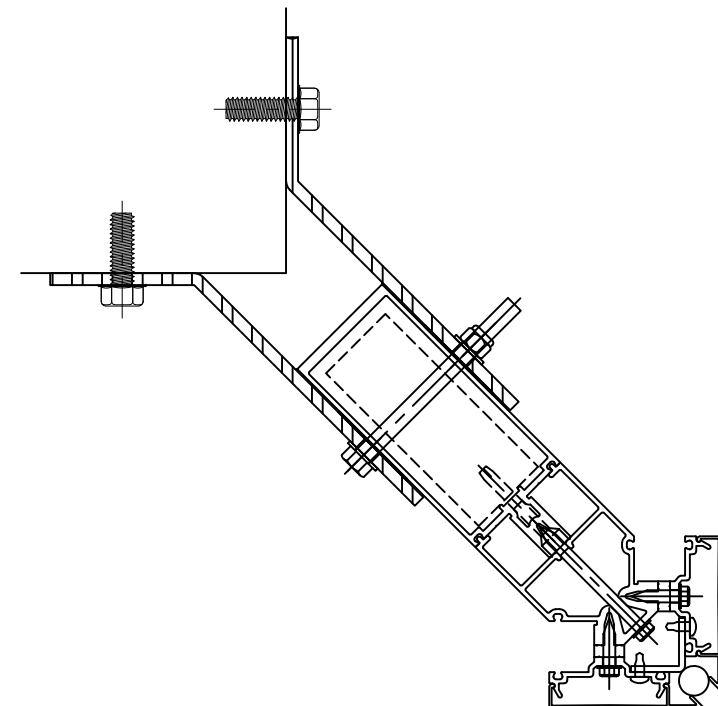
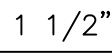
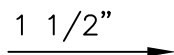
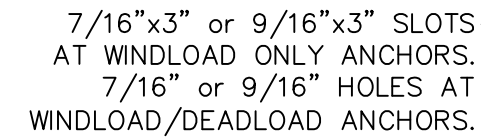
SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982			KAWNEER AN ARCONIC COMPANY		—	—	—
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				REVISION	—	12/16/24	—
				2023 CODE UPDATE	—	10/15/23	—
				1ST SUBMITTAL	—	10/12/20	—
				PRINTS ISSUED FOR	REV.#	DATE	
555 GUTHRIDGE COURT NORCROSS, GA 30092		PH: (770) 449-5555 WWW.KAWNEER.COM					
PRODUCT: 1600 WALL SYSTEM 1 & 2							
DWG: 1600-IR-HVHZ							
SECTION: 6							
SHEET: 32/42							

**SEE CHART ON SHEET 37 FOR
FASTENER & SUBSTRATE INFORMATION**



SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982 PRODUCT: 1600 WALL SYSTEM 1 & 2 DWG: 1600-IR-HVHZ SECTION: 6 SHEET: 33/42		KAWNEER AN ARCONIC COMPANY		PH: (770) 449-5555 WWW.KAWNEER.COM	555 GUTHRIDGE COURT NORCROSS, GA 30092
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2023 CODE UPDATE	10/15/23	—	—		
1ST SUBMITTAL	10/12/20	—	—		
PRINTS ISSUED FOR	REV.#	DATE			

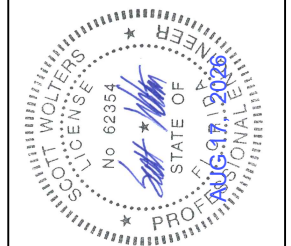
**SEE CHART ON SHEET 37 FOR
FASTENER & SUBSTRATE INFORMATION**



KAWNEER
AN ARCONIC COMPANY

555 GUTHRIDGE COURT
NORCROSS, GA 30092

PH: (770) 449-5555
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SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

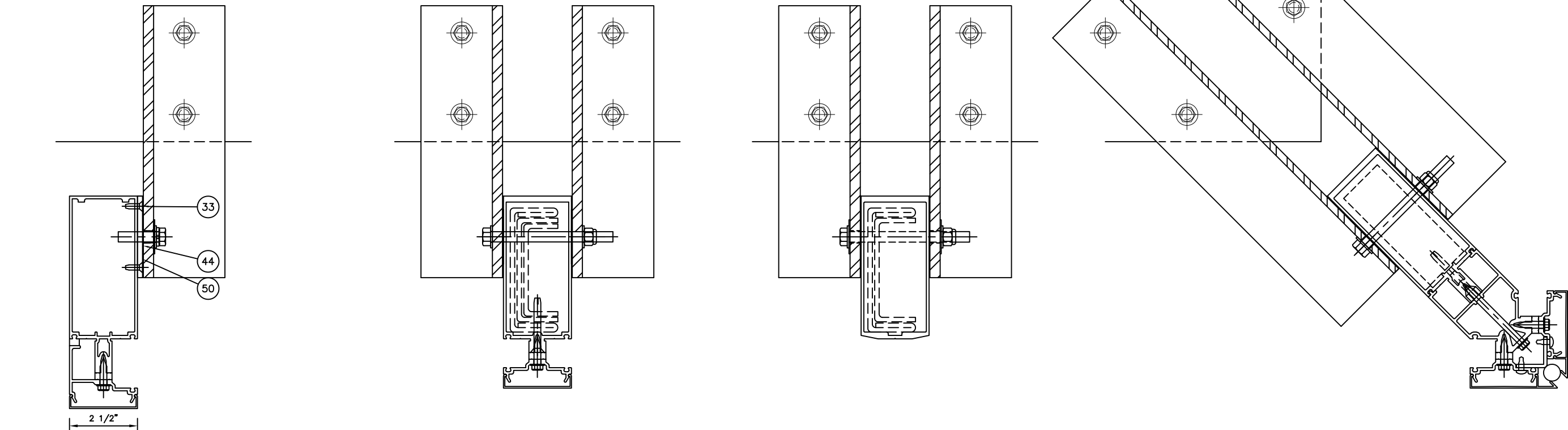
PRODUCT: 1600 WALL SYSTEM 1 & 2
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DWG:	1600-IR-HVHZ
SECTION:	

SECTION: 6

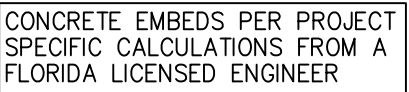
SHEET: 34/42

**SEE CHART ON SHEET 37 FOR
FASTENER & SUBSTRATE INFORMATION**



SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982			
PRODUCT: 1600 WALL SYSTEM 1 & 2		DWG: 1600-IR-HVHZ	
SECTION: 6		SHEET: 35/42	

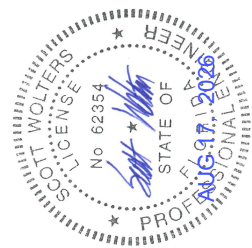
**SEE CHART ON SHEET 37 FOR
FASTENER & SUBSTRATE INFORMATION**



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	6
SHEET:	36/42



KAWNEER
AN ARCONIC
COMPANY

555 GUTHRIDGE COURT
PH: (770) 449-5555

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REVISION	—	12/16/24
2023 CODE UPDATE	—	10/15/23
1ST SUBMITTAL	—	10/12/20
DATE	DATE	DATE

MID-SPAN ANCHOR CHARTS

MID-SPAN ANCHORS							
SUBSTRATE	MARK	TYPE	QUANTITY		MIN EMBED (in)	MIN EDGE DISTANCE (in)	MAX WL REACTION (lb)
			MULLION	JAMB			
THRU MULLION AND ANCHORS	S	3/8" DIA. BOLT, LOCKNUT, AND WASHERS (Fu=120 ksi min) ⁴	2	2	N/A	N/A	6705 lb.
	T	1/2" DIA. BOLT, LOCKNUT, AND WASHERS (Fu=120 ksi min) ⁴	2	2	N/A	N/A	9119 lb.
STRUCTURAL STEEL (1/4", A36 min)	U	3/8" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min)	4	2	FULL*	3/4"	9119 lb.
	V	1/2" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min)	2	1	FULL*	1"	9119 lb.
	W	3/8" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min)	4	2	FULL*	3/4"	7748 lb.
	X	1/2" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min)	4	2	FULL*	1"	9119 lb.
CONCRETE (4000 psi min)	Y	3/8" DIA. WEDGE-TYPE CONCRETE ANCHOR ¹	4	2	3 1/4"	3"	5792 lb.
	Z	3/8" DIA. WEDGE-TYPE CONCRETE ANCHOR ¹	4	2	4 1/2"	3"	7212 lb.
	AA	1/2" DIA. WEDGE-TYPE CONCRETE ANCHOR ¹	2	1	4 1/4"	4"	5142 lb.
	BB	1/2" DIA. STUD -TYPE CONCRETE ANCHOR ²	2	1	4 1/2"	6"	4882 lb.

ANCHOR NOTES:

1. WEDGE-TYPE ANCHORS INCLUDE DeWALT SCREW-BOLT+, HILTI KWIK HUZ-EZ, AND SIMPSON STRONG-TIE TITAN HD.
2. STUD-TYPE ANCHORS INCLUDE HILTI KWIK BOLT 3 AND SIMPSON STRONG-TIE WEDGE-ALL.
3. THRU BOLTS MAY BE CARBON STEEL (GRADE 5 MIN) OR STAINLESS STEEL(Fu=120 ksi min)
- * FOR FASTENERS IN STEEL, FASTENER THREADS MUST FULLY PENETRATE THE WALL THICKNESS OF THE STEEL, WITH THREE ADDITIONAL THREADS BEYOND.

ANCHOR CONFIGURATIONS T, U, V, and X ARE APPROVED FOR ALL MULLION SIZES AND PRESSURES SHOWN IN THE MULLION CHARTS ON SHEETS 16-21.

MID-SPAN ANCHORS - ALLOWABLE DESIGN PRESSURES												
MULLION HEIGHT (in)	MULLION WIDTH (in)	DESIGN PRESSURES FOR MULTI-SPAN MULLIONS WITH EQUAL SPANS (pdf)										
		(2) 3/8" BOLTS THRU MULLION	WINDLOAD ONLY ANCHORS					WINDLOAD/DEADLOAD ANCHORS				
			W	Y	Z	AA	BB	W	Y	Z	AA	BB
144	48	90.0	90.0	90.0	90.0	85.7	81.4	90.0	77.8	90.0	65.9	61.8
	60	89.3	90.0	77.2	90.0	68.6	65.1	90.0	57.9	71.6	47.8	44.7
	72	74.4	86.1	64.4	80.1	57.1	54.2	85.8	44.3	55.7	35.5	32.9
	78	68.7	79.5	59.4	74.0	52.7	50.1	79.2	39.0	49.5	30.6	28.3
	84	63.8	73.8	55.2	68.7	49.0	46.5	73.6	34.5	44.1	26.3	24.2
	90	59.6	68.9	51.5	64.1	45.7	43.4	68.7	30.4	39.4	22.5	20.6
	96	55.8	64.6	48.3	60.1	42.9	40.7	64.4	26.9	35.3	19.1	17.4
156	48	90.0	90.0	89.1	90.0	79.1	75.1	90.0	71.9	90.0	60.8	57.1
	60	82.5	90.0	71.3	90.0	63.3	60.1	90.0	53.4	66.1	44.2	41.2
	72	68.7	79.5	59.4	74.0	52.7	50.1	79.2	40.9	51.4	32.7	30.4
	84	58.9	68.1	50.9	63.4	45.2	42.9	67.9	31.8	40.7	24.3	22.4
	96	51.5	59.6	44.6	55.5	39.6	37.6	59.4	24.8	32.6	17.6	16.0
168	48	90.0	90.0	82.7	90.0	73.5	69.7	90.0	66.7	81.5	56.5	53.0
	60	76.6	88.5	66.2	82.4	58.8	55.8	88.3	49.6	61.4	41.0	38.3
	66	69.6	80.5	60.2	74.9	53.4	50.7	80.3	43.3	54.0	35.3	32.8
	72	63.8	73.8	55.2	68.7	49.0	46.5	73.6	38.0	47.7	30.4	28.2
	84	54.7	63.2	47.3	58.9	42.0	39.9	63.1	29.5	37.8	22.5	20.8
	90	51.0	59.0	44.1	54.9	39.2	37.2	58.9	26.1	33.8	19.3	17.7
	96	47.9	55.3	41.4	51.5	36.7	34.9	55.2	23.0	30.2	16.3	14.9
180	48	89.3	90.0	77.2	90.0	68.6	65.1	90.0	62.3	76.1	52.7	49.4
	60	71.5	82.6	61.8	76.9	54.8	52.1	82.4	46.3	57.3	38.3	35.7
	66	65.0	75.1	56.2	69.9	49.9	47.3	74.9	40.4	50.4	32.9	30.6
	72	59.6	68.9	51.5	64.1	45.7	43.4	68.7	35.5	44.6	28.4	26.3
	78	55.0	63.6	47.5	59.2	42.2	40.1	63.4	31.2	39.6	24.5	22.6
	84	51.0	59.0	44.1	54.9	39.2	37.2	58.9	27.6	35.3	21.0	19.4
	89	48.2	55.7	41.7	51.9	37.0	35.1	55.6	24.9	32.1	18.5	16.9
187	48	86.0	90.0	74.3	90.0	66.0	62.7	90.0	59.9	73.2	50.7	47.6
	54	76.4	88.4	66.1	82.3	58.7	55.7	88.1	51.4	63.2	43.1	40.3
	60	68.8	79.6	59.5	74.0	52.8	50.1	79.3	44.6	55.1	36.8	34.4
	66	62.5	72.3	54.1	67.3	48.0	45.6	72.1	38.9	48.5	31.7	29.5
	72	57.3	66.3	49.6	61.7	44.0	41.8	66.1	34.1	42.9	27.3	25.4
	78	52.9	61.2	45.7	57.0	40.6	38.6	61.0	30.1	38.1	23.5	21.8
	86	48.0	55.5	41.5	51.7	36.8	35.0	55.3	25.5	32.7	19.2	17.7
192	48	83.8	90.0	72.4	90.0	64.3	61.0	90.0	58.4	71.3	49.4	46.4
	54	74.4	86.1	64.4	80.1	57.1	54.2	85.8	50.1	61.5	41.9	39.3
	60	67.0	77.5	57.9	72.1	51.4	48.8	77.3	43.4	53.7	35.9	33.5
	66	60.9	70.4	52.7	65.6	46.7	44.4	70.2	37.9	47.2	30.9	28.7
	72	55.8	64.6	48.3	60.1	42.9	40.7	64.4	33.2	41.8	26.6	24.7
	78	51.5	59.6	44.6	55.5	39.6	37.6	59.4	29.3	37.1	22.9	21.2
	84	47.9	55.3	41.4	51.5	36.7	34.9	55.2	25.8	33.1	19.7	18.2
204	42	71.0	71.0	71.0	71.0	69.1	65.6	71.0	64.9	71.0	55.5	52.1
	48	71.0	71.0	68.1	71.0	60.5	57.4	71.0	54.9	71.0	46.5	43.6
	54	70.1	71.0	60.6	71.0	53.8	51.1	71.0	47.1	57.9	39.5	36.9
	60	63.1	71.0	54.5	67.9	48.4	45.9	71.0	40.8	50.5	33.8	31.5
	66	57.3	66.3	49.6	61.7	44.0	41.8	66.1	35.7	44.4	29.0	27.0
	72	52.5	60.8	45.4	56.6	40.3	38.3	60.6	31.3	39.3	25.0	23.2
	79	47.9	55.4	41.4	51.6	36.8	34.9	55.2	27.0	34.3	21.1	19.5
216	42	71.0	71.0	71.0	71.0	65.3	62.0	71.0	61.3	71.0	52.4	49.2
	48	71.0	71.0	64.4	71.0	57.1	54.2	71.0	51.9	63.4	43.9	41.2
	54	66.2	71.0	57.2	71.0	50.8	48.2	71.0	44.5	54.7	37.3	34.9
	60	59.6	68.9	51.5	64.1	45.7	43.4	68.7	38.6	47.7	31.9	29.8
	66	54.1	62.6	46.8	58.3	41.6	39.5	62.4	33.7	42.0	27.4	25.5
74	48.3	55.8	41.7	52.0	37.1	35.2	55.7	28.3	35.7	22.5	20.9	
231	36	71.0	71.0	71.0	71.0	71.0	67.6	71.0	69.0	71.0	59.5	56.0
	42	71.0	71.0	71.0	71.0	61.1	58.0	71.0	57.3	71.0	49.0	46.0
	48	71.0	71.0	60.2	71.0	53.4	50.7	71.0	48.5	59.3	41.1	38.5
	54	61.9	71.0	53.5	71.0	47.5	45.1	71.0	41.6	51.2	34.9	32.6
	60	55.7	66.5	48.1	59.9	42.7	40.6	66.5	36.1	44.6	29.8	27.8
	66	50.6	58.2	43.8	54.5	38.9	36.9	58.2	31.5	39.2	25.6	23.9
	70	47.7	54.9	41.3	51.4	36.6	34.8	54.9	28.8	36.1	23.2	21.6

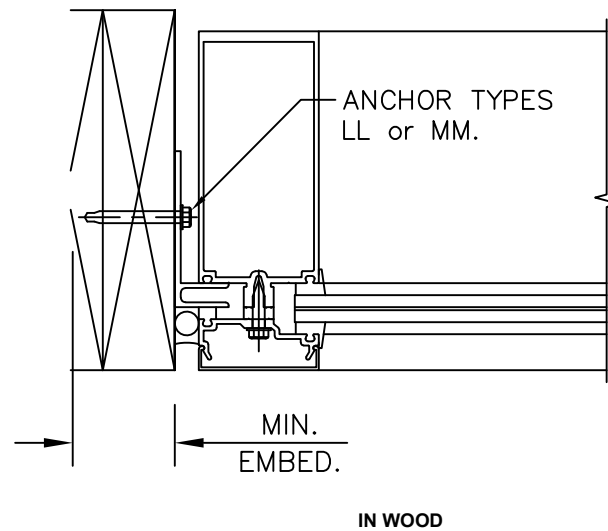
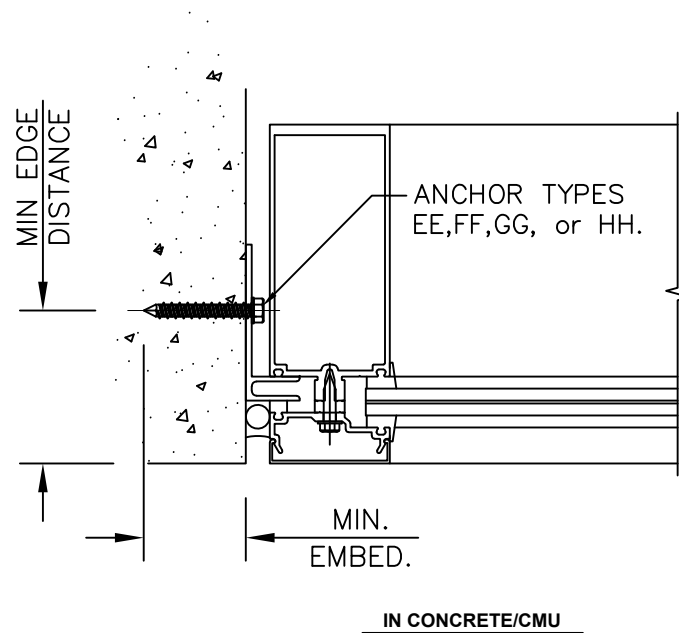
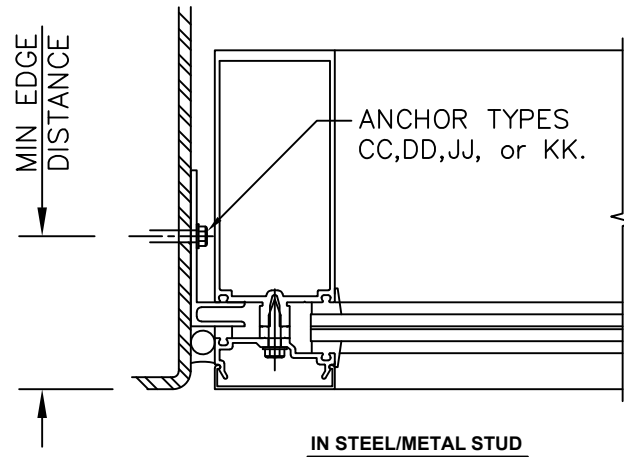
WALL SECTION 1 NOTES:

1. THE ALLOWABLE ANCHOR DESIGN PRESSURES LISTED ARE FOR MULTI-SPAN MULLIONS WITH EQUAL SPANS. ALLOWABLE ANCHOR DESIGN PRESSURES FOR UNEQUAL SPANS WILL REQUIRE PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.
2. THE ALLOWABLE DESIGN PRESSURES LISTED FOR WINDLOAD/DEADLOAD ANCHORS ARE BASED ON 288" MAX. MULLION LENGTHS AND STANDARD ANCHOR CONFIGURATIONS AS SHOWN. ALLOWABLE DESIGN PRESSURES FOR LONGER MULLION LENGTHS OR FOR ANY DEVIATIONS FROM THE ANCHORS SHOWN WILL REQUIRE PROJECT SPECIFIC CALCULATIONS BY A FLORIDA LICENSED ENGINEER.

 KAWNEER AN ARCONIC COMPANY	PH: (770) 449-5555	555 GUTHRIDGE COURT	SEAL:
	WWW.KAWNEER.COM	NORCROSS, GA 30092	
			SCOTT WALTERS FL PE# 62354
			WALTERS ENGINEERING (COA # 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982
REVISION	12/16/24		
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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)	CC	1/4" DIA. F-TYPE SCREW or BOLT (Fu=120 ksi min) ¹	FULL*	3/4"	425 lb.
	DD	1/4" DIA. DEWALT DRIL-FLEX	FULL*	3/4"	581 lb.
CONCRETE (2846 psi min)	EE	1/4" DIA. DEWALT ULTRACON	1 3/4"	2 1/2"	357 lb.
CONCRETE (3515 psi min)	FF	5/16" DIA. DEWALT ULTRACON	1 3/4"	3 1/8"	581 lb.
CMU (ASTM C-90 GRADE N, TYPE 1 min)	GG	1/4" DIA. DEWALT ULTRACON	1 3/4"	2 1/2"	200 lb.
	HH	5/16" DIA. DEWALT ULTRACON	1 3/4"	2 1/2"	296 lb.
METAL STUD (16 Ga, 45 ksi min)	JJ	1/4" DIA. F-TYPE SCREW (Fu=120 ksi min) ¹	FULL*	3/4"	357 lb.
	KK	1/4" DIA. DEWALT DRIL-FLEX	FULL*	3/4"	357 lb.
WOOD (S.G.=0.5 min)	LL	1/4" DIA. DEWALT ULTRACON	1 3/4"	1 5/8"	196 lb.
	MM	5/16" DIA. DEWALT ULTRACON	1 3/4"	1 3/4"	357 lb.

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

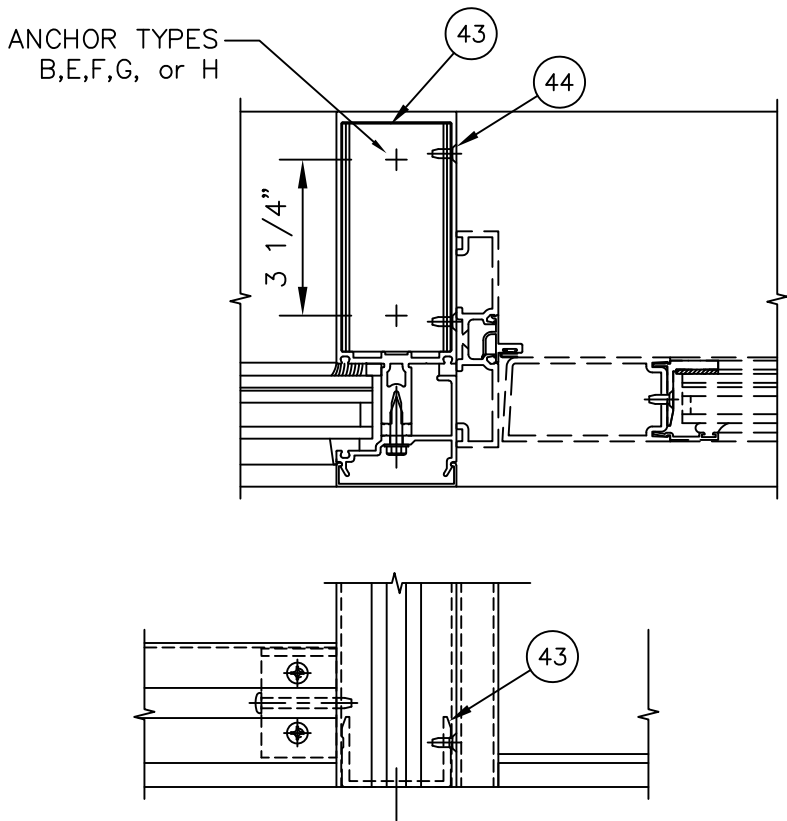
CORROSION RESISTANCE NOTES:

WITHIN 3000 ft OF A SALTWATER COASTLINE:

1. FASTENERS MUST BE EITHER:
 - A. GALVANIZED TO MEET ASTM A153, CLASS C.
 - B. GALVANIZED TO MEET ASTM A641 CLASS 3S.
 - C. COATED TO EXHIBIT <5% RED RUST AFTER 1000 HOURS OF EXPOSURE PER ASTM B117.
 - D. 300 SERIES STAINLESS STEEL (Fu=100 ksi min).

JAMB F-PERIMETER MAX. FASTENER SPACING (in)											
WINDLOAD (+/- psf)	JAMB DLO WIDTH (in)	FASTENER CONFIGURATIONS									
		CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM
60	48	18	24	18	18	18	18	18	18	18	32
	60	18	24	18	18	15	18	18	18	14	26
	72	18	24	18	18	12	18	18	18	12	22
	84	18	24	18	18	11	16	18	18	11	19
	96	18	24	17	18	10	14	17	17	9	17
75	48	18	24	18	18	14	18	18	18	14	26
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DOORJAMB ANCHORS



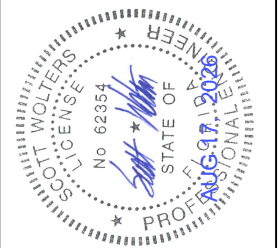
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FOR ALL MULLION SIZES AND PRESSURES SHOWN
IN THE MULLION CHARTS ON SHEETS 14-20.
ANCHOR CONFIGURATIONS E, G, & H ARE APPROVED
FOR USE UP TO THE DESIGN PRESSURES LISTED IN
THE CHARTS ON SHEETS 31-32.

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CODE UPDATE	—	8/17/26
REVISION	—	12/16/24
2023 CODE UPDATE	—	10/15/23
1ST SUBMITTAL	—	10/12/20
PRINTS ISSUED FOR	REV.#	DATE

KAWNEER
AN ARCONIC COMPANY

555 GUTHRIDGE COURT
NORCROSS, GA 30092

PH: (770) 449-5555
WWW.KAWNEER.COM



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	6
SHEET:	38/42

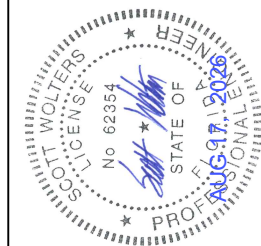
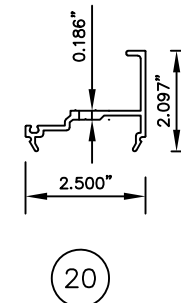
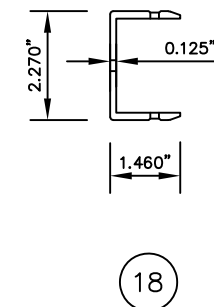
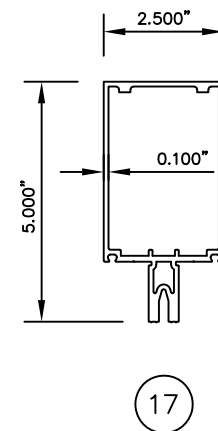
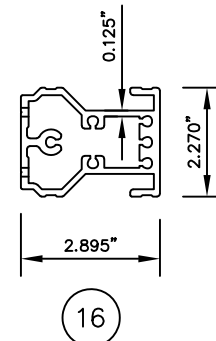
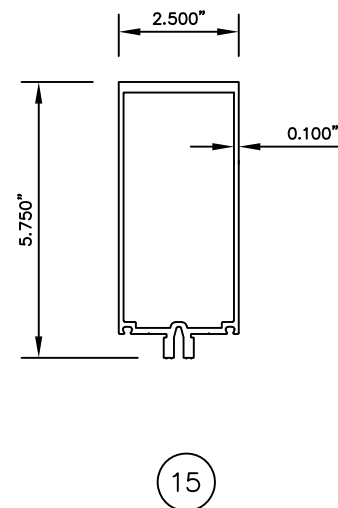
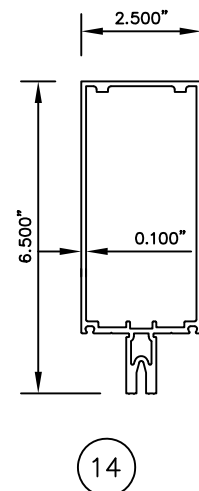
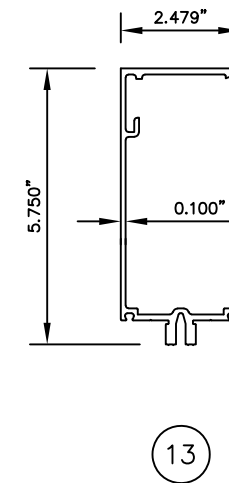
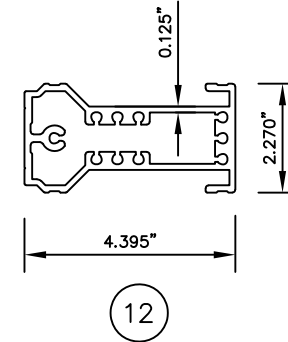
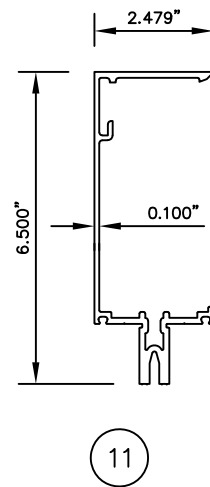
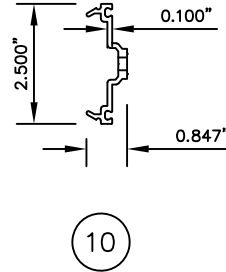
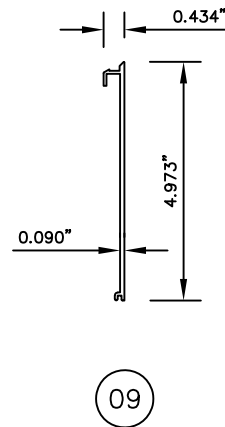
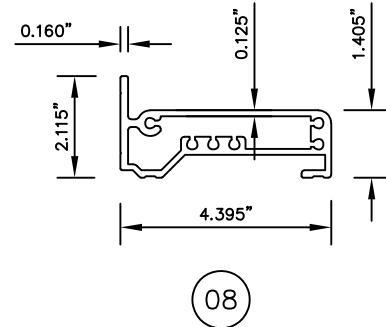
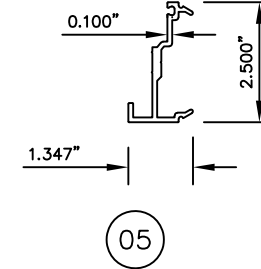
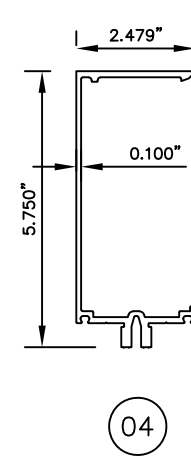
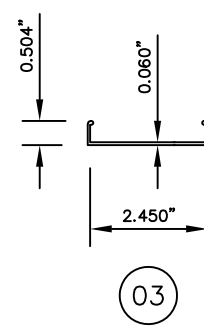
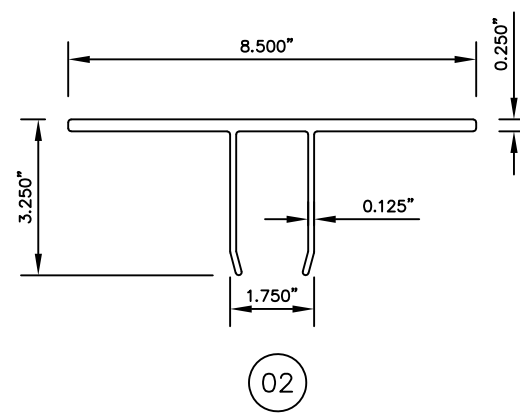
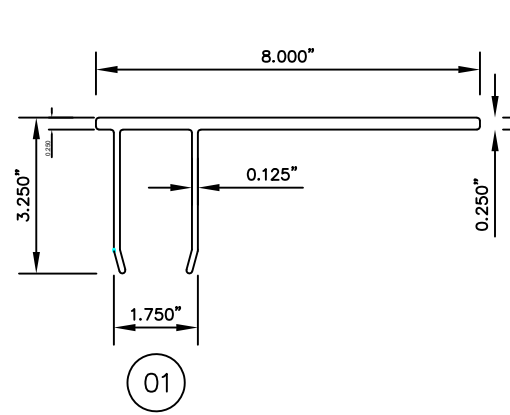
BILL OF MATERIALS

BILL OF MATERIALS				
NO.	PART NO.	DESCRIPTION	DIMENSIONS	MATERIAL
01	162311	"F" ANCHOR	3.250 x 8.000 x 0.250	6063 T6 ALUMINUM
02	162312	"T" ANCHOR	3.250 x 8.500 x 0.250	6063 T6 ALUMINUM
03	162006	COVER	2.500 x 0.504 x 0.060	6063 T6 ALUMINUM
04	162097	6-3/4" OPEN BACK HORIZONTAL	2.479 x 5.750 x 0.100	6063 T6 ALUMINUM
05	162518	PERIMETER OFFSET PRESSURE PLATE	2.500 x 1.347 x 0.100	6063 T6 ALUMINUM
06	128405	#12 x 7/8" AB FHTF	#12 x 7/8" AB FHTF	300 SERIES STAINLESS STEEL
07	128394	#12 x 1-7/8" TYPE I CRPHTFS B	#12 x 1-7/8" B PHTF	430 SERIES STAINLESS STEEL
08	162332	7-1/2" HEAD / SILL SHEAR BLOCK	4.395 x 2.115 x 0.125	6063 T6 ALUMINUM
09	162020	OPEN BACK FILLER	0.434 x 4.973 x 0.090	6063 T6 ALUMINUM
10	162517	OFFSET PRESSURE PLATE	2.500 x 0.847 x 0.100	6063 T6 ALUMINUM
11	162091	7-1/2" OPEN BACK HORIZONTAL	2.479 x 6.500 x 0.100	6063 T6 ALUMINUM
12	162378	7-1/2" SHEAR BLOCK	4.395 x 2.270 x 0.125	6063 T6 ALUMINUM
13	162093	6-3/4" OPEN BACK HORIZONTAL	2.479 x 5.750 x 0.100	6063 T6 ALUMINUM
14	162003	LIGHT 7-1/2" VERTICAL / HORIZONTAL	2.479 x 6.500 x 0.100	6063 T6 ALUMINUM
15	162016	HEAVY 6-3/4" VERTICAL / HORIZONTAL	2.479 x 5.750 x 0.100	6063 T6 ALUMINUM
16	162377	6" SHEAR BLOCK	2.895 x 2.270 x 0.125	6063 T6 ALUMINUM
17	162001	LIGHT 6" HORIZONTAL	2.500 x 5.000 x 0.100	6063 T6 ALUMINUM
18	162405	SHEAR BLOCK AT 90 DEG CORNERS	1.460 x 2.270 x 0.125	6063 T6 ALUMINUM
19	028843	#12 x 1/2" TYPE I CRFCHT SB	#12 x 1/2" TYPE I CRFCHT SB	300 SERIES STAINLESS STEEL
20	162528	1-5/16" PERIMETER OFFSET PRESSURE PLATE	2.500 x 2.097 x 0.100	6063 T6 ALUMINUM
21	162095	7-1/2" OPEN BACK HORIZONTAL FOR 1" FRAME	2.479 x 6.500 x 0.100	6063 T6 ALUMINUM
22	162516	JAMB OFFSET PRESSURE PLATE	2.500 x 0.847 x 0.100	6063 T6 ALUMINUM
24	162176	F PERIMETER FOR 1/4" FRAME	3.250 x 1.125 x 0.100	6063 T6 ALUMINUM
25	162017	F PERIMETER FOR 1" FRAME	4.000 x 1.125 x 0.100	6063 T6 ALUMINUM
26	162004	HEAVY 7-1/2" VERTICAL / HORIZONTAL FOR 1" FRAME	2.500 x 6.500 x 0.100	6063 T6 ALUMINUM
27	166017	7-1/2" HEAVY SSG VERTICAL	2.500 x 5.250 x 0.100	6063 T6 ALUMINUM
28	162222	90 DEG CORNER ADAPTER	2.500 x 3.745 x 0.100	6063 T6 ALUMINUM
29	809331	CUSTOM 90 DEG CORNER ADAPTER	2.500 x 4.344 x 0.100	6063 T5 ALUMINUM (#10 FINISH)
30	176012	90 DEG OUTSIDE CORNER COVER	2.482 x 0.504 x 0.060	6063 T6 ALUMINUM
31	162255	7-1/2" 90 DEG OUTSIDE CORNER COVER	2.500 x 2.458 x 0.080	6063 T6 ALUMINUM
32	162254	7-1/2" 90 DEG OUTSIDE CORNER SSG MULLION	2.500 x 6.473 x 0.125	6063 T6 ALUMINUM
33	128348	10-16 x 1-1/4" FHSM D	10-16 x 1-1/4" FHSM D	400 SERIES STAINLESS STEEL
34	162307	7-1/2" SLEEVE	2.260 x 4.750 x 0.125	6063 T6 ALUMINUM
35	128267	12 x 1" TYPE I CRPHTFS AB	12 x 1" TYPE I CRPHTFS AB	300 SERIES STAINLESS STEEL
36	162313	SLEEVE FOR EXTERIOR COVER 3/4"	2.219 x 0.187 x 0.031	.031 5005 H32 SHEET ALUMINUM FINISH
37	162306	6" SLEEVE	2.260 x 3.250 x 0.125	6063 T6 ALUMINUM
38	162301	MATING STEEL REINFORCING 1	1.750 x 4.560 x 0.164	GRADE 50 STEEL
39	904208	1/4 x 2" FCHTCS D/F	1/4 x 2" FCHTCS D/F	300 SERIES STAINLESS STEEL
40	162302	MATING STEEL REINFORCING 2	1.500 x 3.810 x 0.164	GRADE 50 STEEL
41	162303	MATING STEEL REINFORCING 3	1.250 x 3.388 x 0.164	GRADE 50 STEEL
42	N/A	1" x 3" STEEL (BY OTHERS)	1.000 x 3.000	GRADE 50 STEEL
43	162320	7-1/2" SHEAR BLOCK AT DOOR	1.460 x 2.270 x 0.125	6063 T6 ALUMINUM
44	128910	10 x 1/2" TYPE I CRFCHTFS B	10 x 1/2" TYPE I CRFCHTFS B	300 SERIES STAINLESS STEEL
45	977110	10 x 5/8" TYPE I CRFCHTFS B	10 x 5/8" TYPE I CRFCHTFS B	300 SERIES STAINLESS STEEL
46	028596	3/8" FLAT WASHER TYPE A - NARROW	DIA 0.750 x 0.040	300 SERIES STAINLESS STEEL
47	028779	3/8" HELICAL SPRING LOCK WASHER	DIA 0.869 x 0.125	300 SERIES STAINLESS STEEL
48	028778	3/8"-16 x 1-1/2" HCS B	3/8"-16 x 1-1/2" HCS B	400 SERIES STAINLESS STEEL
49	027477	ALUMINUM TO STEEL SEPARATOR	2.000 x 4.500 x 0.031	THERMO-TORK TN-9004 NON-ASBESTOS GASKET
50	162507	ANCHOR PLATE AT JAMBS	3.000 x 0.188	6063 T6 ALUMINUM
51	216301	1/2" SLIP PLAIN WASHER	DIA 1.250 x 0.063	#101 NYLON NATURAL COLOR BY JET FASTENER
52	128392	3/8"-16 HEX LOCKNUT	0.563 x 0.650	300 SERIES STAINLESS STEEL
53	128918	3/8-16 x 4-1/2" PRHHMS	3/8-16 x 4-1/2" PRHHMS	300 SERIES STAINLESS STEEL
54	N/A	1 1/4" x 4 1/2" BAR STEEL	1 1/4" x 4 1/2" BAR STEEL	GRADE 50 STEEL
55	N/A	1 3/4" x 4-1/2" BAR STEEL	1 3/4" x 4-1/2" BAR STEEL	GRADE 50 STEEL
56	162519	HIGH PRESSURE SHEAR BLOCK	2.217" x 4.718" x 1.5"	6063-T6 ALUMINUM
57	128284	#12 x 1 1/2" AB FHTF SCREW	#12 x 1 1/2" AB FHTF	400 SERIES STAINLESS STEEL
58	162014	LIGHT 5 1/4" HORIZONTAL	2.500 x 4.25 x 0.100	6063 T6 ALUMINUM
59	162218	9/16" FEMALE SPLICE HORIZONTAL	1.125 x 6.848 x .125	6063-T6 ALUMINUM
60	162219	9/16" MALE SPLICE HORIZONTAL	2.328 x 6.912 x .125	6063-T6 ALUMINUM
61	162249	1 5/16" FEMALE SPLICE HORIZONTAL	1.125 x 7.598 x .125	6063 T6 ALUMINUM
62	162250	1 5/16" MALE SPLICE HORIZONTAL	2.328 x 7.662 x 0.125	6063 T6 ALUMINUM
63	162521	SHEAR BLOCK - EXPANSION HORIZONTAL	1.50 x .750 x .125 x 4.25	6063 T6 ALUMINUM
64	162250	CORNER SHEAR BLOCK - EXP. HORIZONTAL	1.50 x .750 x .125 x 4.25	6063 T6 ALUMINUM

GLAZING MATERIALS				
NO.	PART NO.	DESCRIPTION	DIMENSIONS	MATERIAL
81	162310	THERMAL SEPARATOR	0.626 x 0.600	SHORE "A" 60±5 DUROMETER EPDM
82	027845	TAPE	0.313 x 0.250	BLACK POLYURETHANE FOAM
83	128406	1/4 x 1" HWHFTS AB	1/4 x 1" HWHFTS AB	300 SERIES STAINLESS STEEL
84	N/A	STRUCTURAL SILICONE SEALANT (BY OTHERS)	N/A	SILICONE
85	027850	FIXED GASKET	0.615 x 0.630	SHORE "A" 60±5 DUROMETER EPDM
86	027342	SETTING BLOCK	0.563 x 0.188	SHORE "A" 80±5 DUROMETER EPDM
87	027081	SETTING BLOCK	1.875 x 4.125 x 0.250	SHORE "A" 85±5 DUROMETER EPDM
88	127254	3M VHB 3/4" SG TAPE B23	0.750 x 0.090	CONFORMABLE ACRYLIC FOAM
89	128475	8 x 1" TYPE I CRPHTFS A	8 x 1" TYPE I CRPHTFS A	300 SERIES STAINLESS STEEL
90	611002	SUPPORT/STIFFENER ACM PANEL	0.750 x 1.093 x 0.090	6063 T6 ALUMINUM
91	N/A	DOW CORNING	N/A	995 SILICONE SEALANT (BY OTHERS)
92	127143	TAPE	1.000 x 0.250	BLACK POLYURETHANE FOAM
93	127150	SETTING BLOCK	1.688 x 0.437	SHORE "A" DUROMETER EPDM
94	027367	SETTING BLOCK	0.750 x 0.438	SHORE "A" 85±5 DUROMETER EPDM
95	127196	SS EXTERIOR GASKET	0.928 x 0.615	SHORE "A" 60±5 DUROMETER EPDM
96	128401	10 x 1" TYPE I CRFCHTFS	10 x 1" TYPE I CRFCHTFS	300 SERIES STAINLESS STEEL
97	027857	FIXED GASKET	0.310 x 0.360	SHORE "A" 70±5 DUROMETER EPDM

		KAWNEER AN ARCONIC COMPANY		REVISION REVISION 2023 CODE UPDATE 1ST SUBMITTAL	12/16/24 2/19/24 10/15/23 10/12/20	DATE DATE DATE DATE
SEAL:		SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982		PH: (770) 449-5555 WWW.KAWNEER.COM		REV.# ISSUED FOR PRINTS
PRODUCT:		1600 WALL SYSTEM 1 & 2		555 GUTHRIDGE COURT NORCROSS, GA 30092		DATE
DWG:		1600-IR-HVHZ		7		DATE
SECTION:		7		39/42		DATE

EXTRUSION PROFILES



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:
1600 WALL
SYSTEM 1 & 2

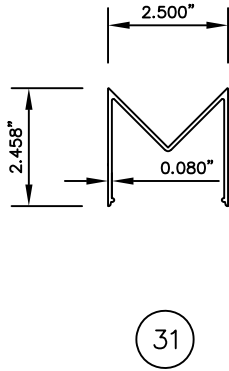
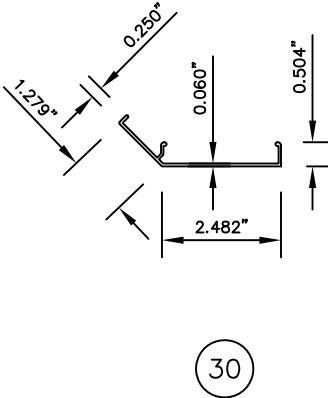
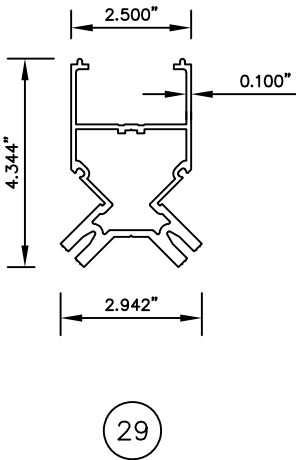
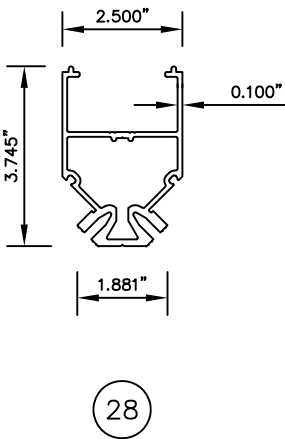
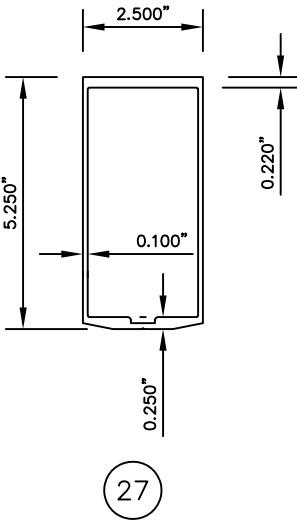
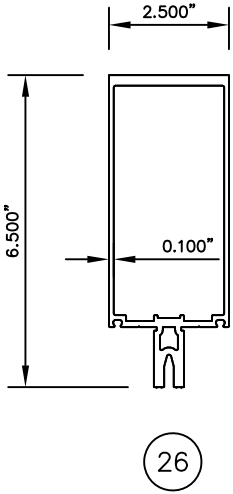
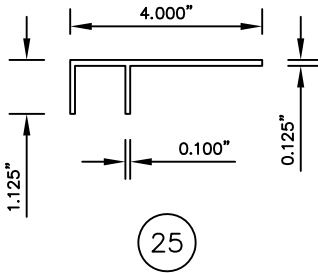
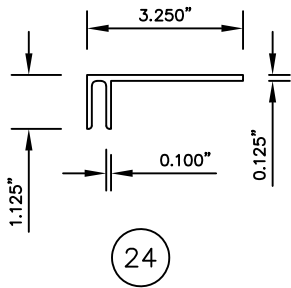
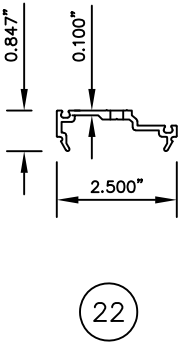
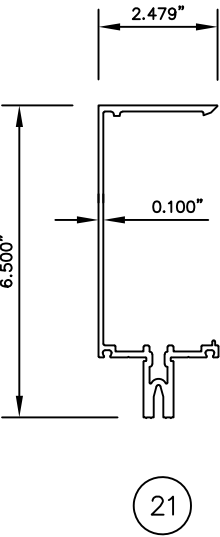
DWG:	1600-IR-HVHZ
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SECTION: 7

SHEET: 40/42

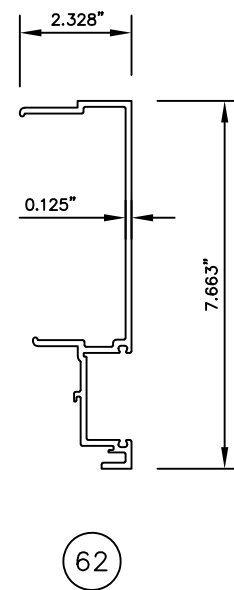
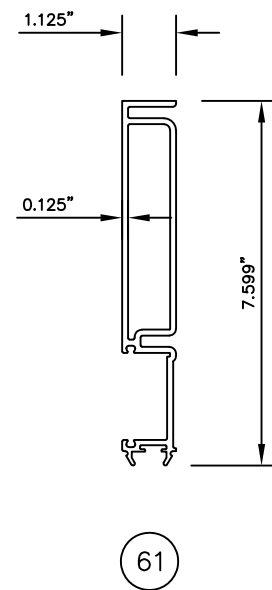
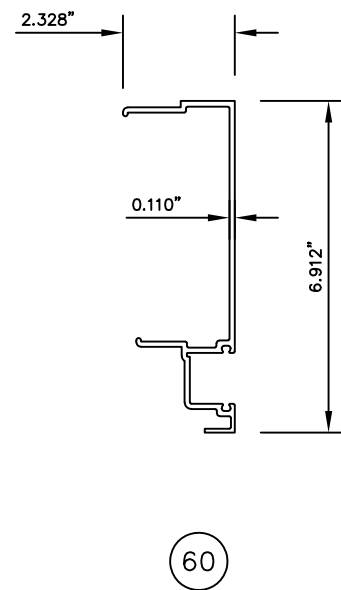
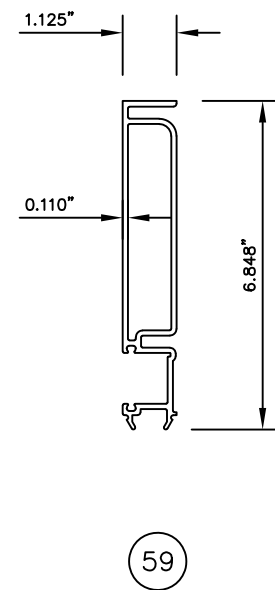
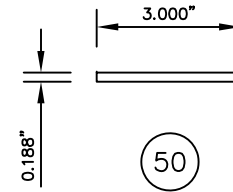
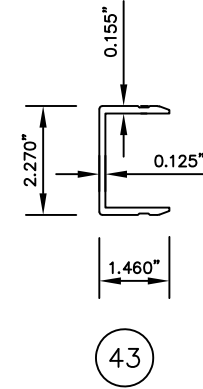
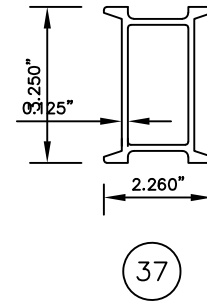
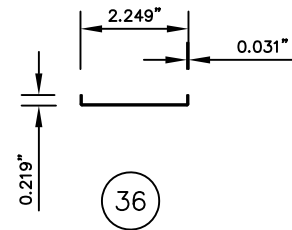
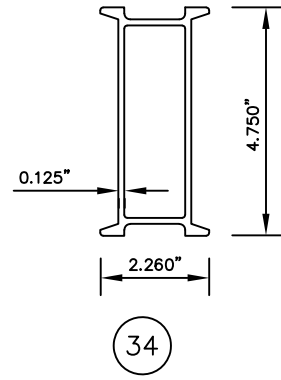
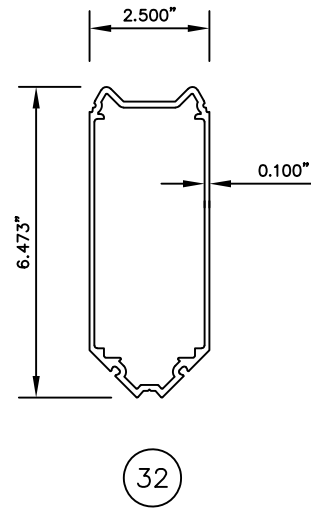
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REVISION	—	12/16/24
2023 CODE UPDATE	—	10/15/23
1ST SUBMITTAL	—	10/12/20
PRINTS ISSUED FOR	REV #	DATE

EXTRUSION PROFILES



SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982 PRODUCT: 1600 WALL SYSTEM 1 & 2 DWG: 1600-IR-HVHZ SECTION: 7 SHEET: 41/42										  AN ARCONIC COMPANY 555 GUTHRIDGE COURT NORCROSS, GA 30092 PH: (770) 449-5555 WWW.KAWNEER.COM										REVISION 2023 CODE UPDATE 1ST SUBMITTAL PRINTS ISSUED FOR REV.# DATE 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EXTRUSION PROFILES



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

PRODUCT:	1600 WALL SYSTEM 1 & 2
DWG:	1600-IR-HVHZ
SECTION:	7
SHEET:	42/48

KAWNEER
AN ARCONIC
COMPANY

555 GUTHRIDGE COURT PH: (770) 449-5555

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REVISION	12/16/24	—
REVISION	2/19/24	—
2023 CODE UPDATE	10/15/23	—
1ST SUBMITTAL	10/12/20	—