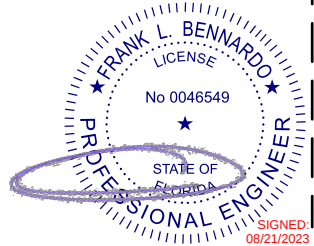


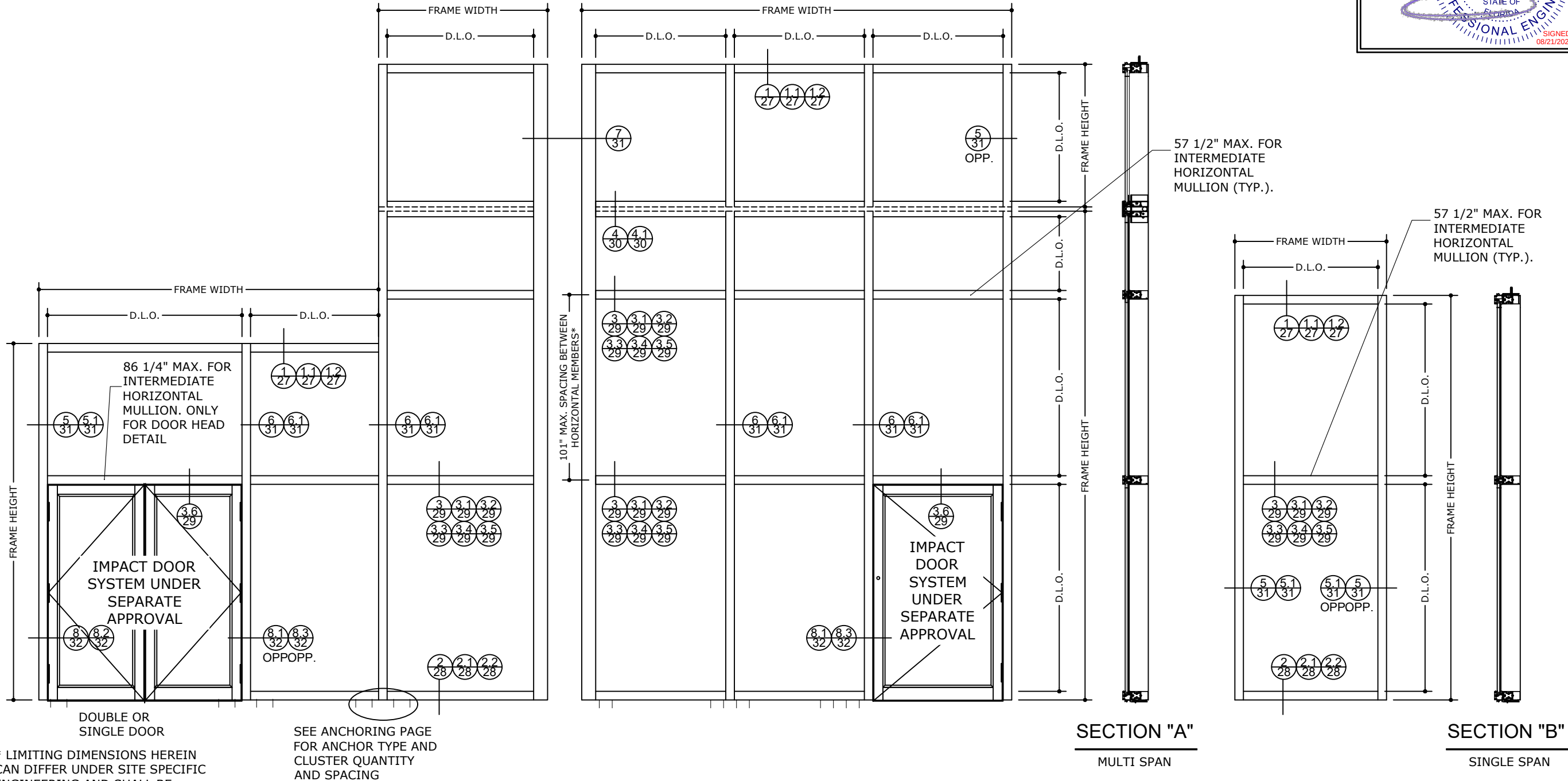
ELEVATIONS DRAWING FOR Reliance™ StormMax® DRY GLAZED
IMPACT RESISTANT CAPTURED CURTAIN WALL SYSTEM

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 21, 2023



FL



* LIMITING DIMENSIONS HEREIN
CAN DIFFER UNDER SITE SPECIFIC
ENGINEERING AND SHALL BE
APPROVED BY THE AUTHORITY
HAVING JURISDICTION (AHJ)

SEE ANCHORING PAGE
FOR ANCHOR TYPE AND
CLUSTER QUANTITY
AND SPACING

TYPICAL CURTAINWALL ELEVATION

INSTRUCTIONS TO DETERMINE DESIGN PRESSURE RATING

- STEP ①: USE THE GLASS LOADING TABLES TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.
- STEP ②: USE THE MULLION LOADING TABLE TO DETERMINE THE ALLOWABLE PRESSURES FOR THE MULLIONS
NOTE: TO DETERMINE THE LOADS OF THE MULLIONS, SEE DIAGRAM ON PAGE 5 FOR SINGLE SPAN OR PAGE 13 FOR TWIN SPAN.
NOTE: FOR TWIN SPANS, BOTH MULLIONS SPANS NEED TO BE LOOKED UP IN THE MULLION LOADING TABLES AND THE MINIMUM PRESSURE SHALL GOVERN.
- STEP ③: THE MINIMUM VALUE BETWEEN STEP ① AND STEP ② WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE CURTAIN WALL SYSTEM.

WATER INFILTRATION NOTE:

WATER RESISTANCE PER TAS 202 AND ASTM E331= 15 P.S.F

TYPICAL SINGLE PANEL OPENING

FRAME SIZE FOR SINGLE OPENINGS
SHALL BE GOVERNED BY THE MAXIMUM
ALLOWABLE D.L.O. DIMENSIONS
DISPLAYED ON THE GLASS CHARTS

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RELANCE™ STORMMAX® DRY GLAZED
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#33108.1)

REMARKS	DATE	DRWN	CHKD
2020 FBC (19-20199)	08/13/20	JPC	AJP
2023 FBC UPDATE	08/16/23	SQ	RS

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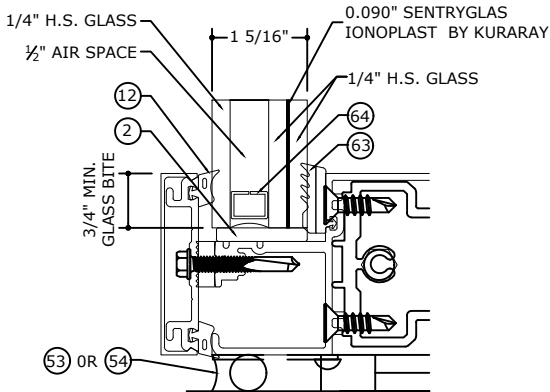
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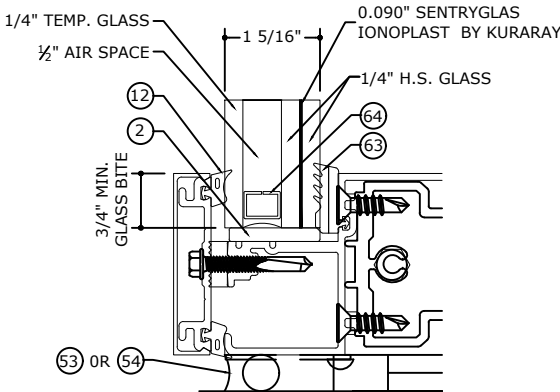
02

OF
41

GLASS TYPES (L.M.I.) - MISSILE LEVEL "D"



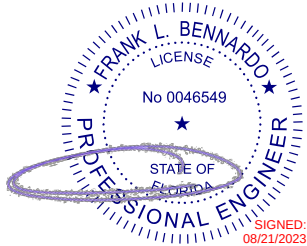
GLASS TYPE **G4**
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
1 5/16" GLASS



GLASS TYPE **G4A**
GLAZING DETAIL
N.T.S.
GLASS RATING:
LARGE MISSILE LEVEL D
1 5/16" GLASS

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PE# 0046549 CA# 9885

AUGUST 21, 2023



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REMARKS	DRWN		CHKD		DATE	
	JPC	AJP	SQ	RS	08/13/20	08/16/23
2020 FBC (19-20199)						
2023 FBC UPDATE	-	-	-	-	-	-

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03 OF 41

NOTES:

- OPTIONAL GLASS CAPS, FINS, OR SIMILAR ACCESSORIES OF VARIOUS SIZES MAY BE ATTACHED WITH SILICONE, BASED ON SITE SPECIFIC CALCULATIONS

GLASS TYPES		G4 G4A	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
90	24	70	70
	30	70	70
	36	70	70
	43	70	70
	48	70	70
	54	70	70
	57-1/2	69	69
	60	67	67
96	24	70	70
	30	70	70
	36	70	70
	43	70	70
	48	70	70
	54	70	70
	57-1/2	70	70
	102	24	70
30		70	70
36		70	70
43		70	70
48		70	70
54		70	70
108	24	70	70
	30	70	70
	36	70	70
	43	70	70
	48	70	70

04

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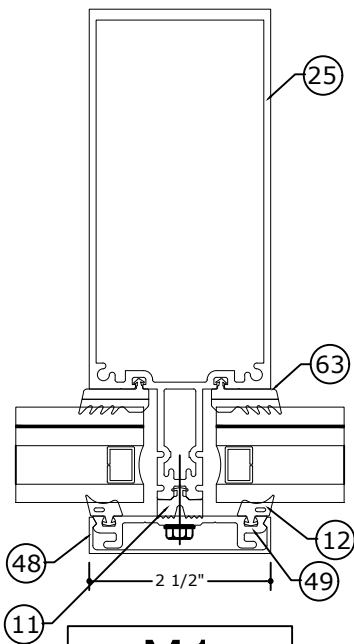
Reliance[™] StormMax[®] SINGLE SPAN MULLION

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

FL

FL 33108.1

FRANK L. BENNARDO
LICENSE
No 0046549
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SIGNED:
08/21/2023

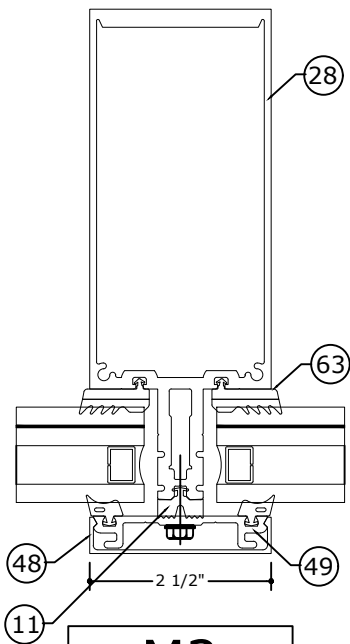


M1

Ix= 10.803 in4
Sx= 3.1168 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6 ON 31

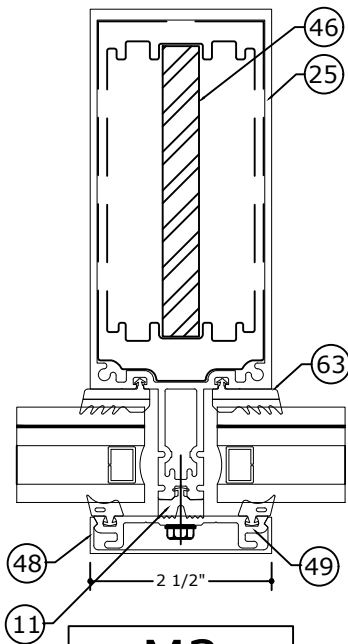


M2

Ix= 14.226 in4
Sx= 4.0529 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6.1 ON 31

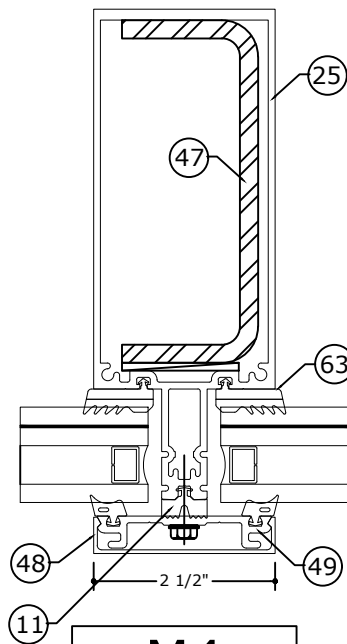


M3

Ix= 28.759 in4
Sx= 6.7634 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6 ON 31

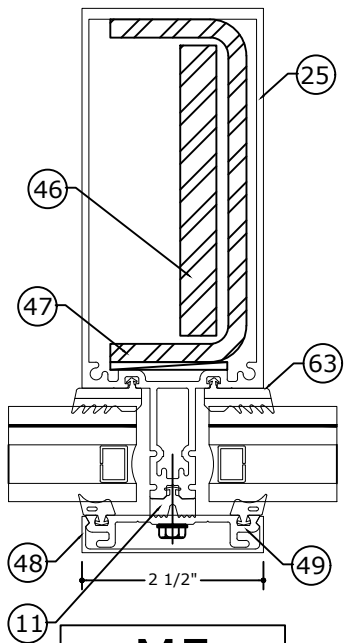


M4

Ix= 29.375 in4
Sx= 7.31 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6 ON 31

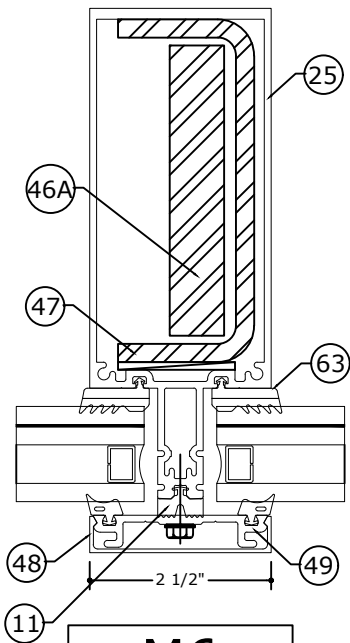


M5

Ix= 33.207 in4
Sx= 7.602 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6 ON 31

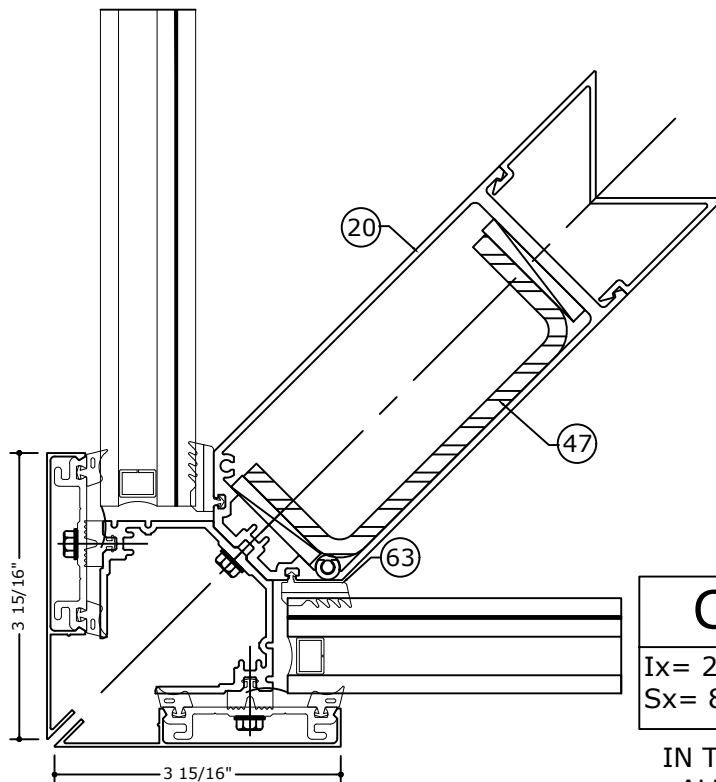


M6

Ix= 48.127 in4
Sx= 10.740 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6 ON 31



CM1

Ix= 27.782 in4
Sx= 8.6737 in3

IN TERMS OF
ALUMINUM

NOTE:
SINGLE SPAN
REINFORCEMENT IS FULL
LENGTH.

NOTE:
REINFORCEMENT MEMBERS
MUST BE SHIMMED TIGHT.

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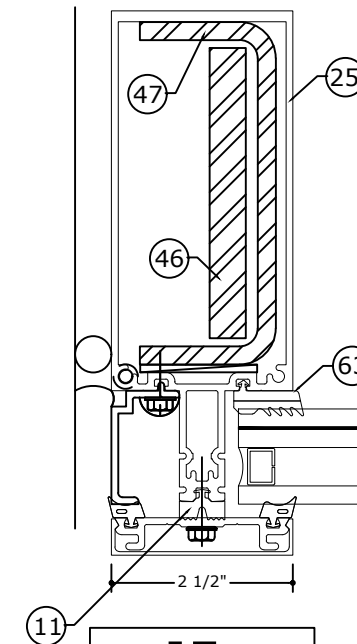
REMARKS	DRWN	CHKD	DATE
2020 FBC (19-20199)	JPC	AJP	08/13/20
2023 FBC UPDATE	SQ	RS	08/16/23

23-59835a

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06

OF 41



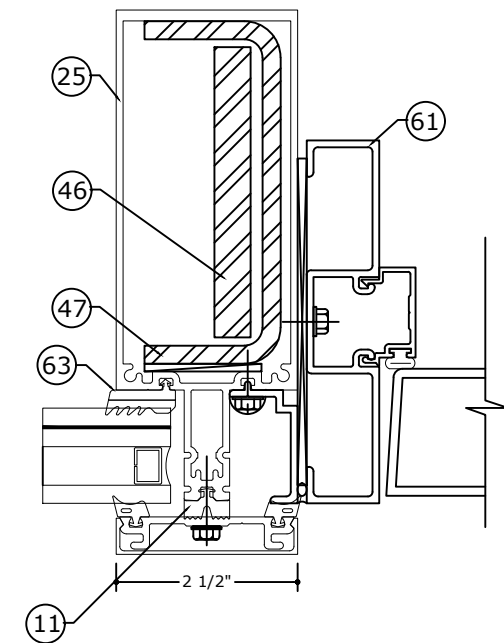
J5

$$\begin{aligned} I_x &= 33.207 \text{ in}^4 \\ S_x &= 7.602 \text{ in}^3 \end{aligned}$$

IN TERMS OF
ALUMINUM

REF. DETAIL 5 ON 31

NOTE:
REINFORCEMENT MEMBERS
MUST BE SHIMMED TIGHT.



DJ5

$I_x = 33.207 \text{ in}^4$
 $S_x = 7.602 \text{ in}^3$

IN TERMS OF
ALUMINUM

REF. DETAIL 8.1 ON 32

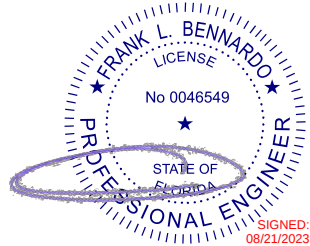
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c:\users\sam\engineering express\production - documents\projects\23-59835 multiple products 2023 fbc update fl 33108\work\drawings & cad\23-59835a - fl33108.1 - fbc 2023.dwg

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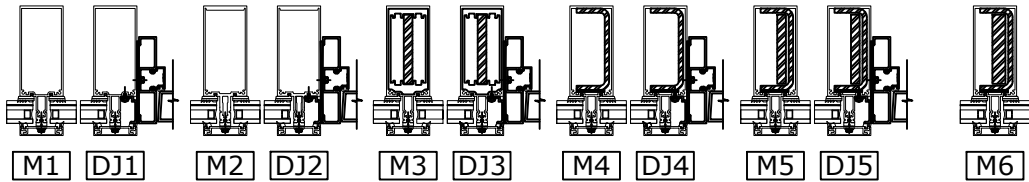
AUGUST 21, 2023



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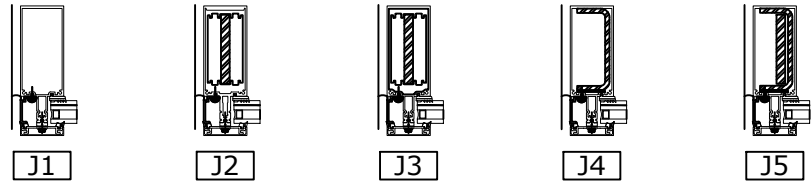
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD
MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		M1 - DJ1		M2 - DJ2		M3 - DJ3		M4 - DJ4		M5 - DJ5		M6	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
60	24	65	65	70	70	70	70	70	70	70	70	70	70
	30	65	65	70	70	70	70	70	70	70	70	70	70
	36	65	65	70	70	70	70	70	70	70	70	70	70
	42	65	65	70	70	70	70	70	70	70	70	70	70
	48	65	65	70	70	70	70	70	70	70	70	70	70
	54	65	65	70	70	70	70	70	70	70	70	70	70
	60	65	65	70	70	70	70	70	70	70	70	70	70
	66	65	65	70	70	70	70	70	70	70	70	70	70
	72	65	65	70	70	70	70	70	70	70	70	70	70
	74	-	-	70	70	70	70	70	70	70	70	70	70
67	24	65	65	70	70	70	70	70	70	70	70	70	70
	30	65	65	70	70	70	70	70	70	70	70	70	70
	36	65	65	70	70	70	70	70	70	70	70	70	70
	42	65	65	70	70	70	70	70	70	70	70	70	70
	48	65	65	70	70	70	70	70	70	70	70	70	70
	54	65	65	70	70	70	70	70	70	70	70	70	70
	60	65	65	70	70	70	70	70	70	70	70	70	70
	66	65	65	70	70	70	70	70	70	70	70	70	70
	72	65	65	70	70	70	70	70	70	70	70	70	70
	74	-	-	70	70	70	70	70	70	70	70	70	70
73	24	65	65	70	70	70	70	70	70	70	70	70	70
	30	65	65	70	70	70	70	70	70	70	70	70	70
	36	65	65	70	70	70	70	70	70	70	70	70	70
	42	65	65	70	70	70	70	70	70	70	70	70	70
	48	65	65	70	70	70	70	70	70	70	70	70	70
	54	65	65	70	70	70	70	70	70	70	70	70	70
	60	65	65	70	70	70	70	70	70	70	70	70	70
	66	65	65	70	70	70	70	70	70	70	70	70	70
	72	65	65	70	70	70	70	70	70	70	70	70	70
	74	-	-	70	70	70	70	70	70	70	70	70	70
78	24	65	65	70	70	70	70	70	70	70	70	70	70
	30	65	65	70	70	70	70	70	70	70	70	70	70
	36	65	65	70	70	70	70	70	70	70	70	70	70
	42	65	65	70	70	70	70	70	70	70	70	70	70
	48	65	65	70	70	70	70	70	70	70	70	70	70
	54	65	65	70	70	70	70	70	70	70	70	70	70
	60	65	65	70	70	70	70	70	70	70	70	70	70
	66	65	65	-	-	70	70	70	70	70	70	70	70
	72	-	-	-	-	70	70	70	70	70	70	70	70
	74	-	-	-	-	70	70	70	70	70	70	70	70



MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD
JAMBS - SINGLE SPAN

SINGLE SPAN JAMB LOADING CHART		JAMB TYPE		JAMB TYPE		JAMB TYPE		JAMB TYPE		JAMB TYPE	
		J1		J2		J3		J4		J5	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
60	8	70	70	70	70	70	70	70	70	70	70
	12	70	70	70	70	70	70	70	70	70	70
	16	70	70	70	70	70	70	70	70	70	70
	20	70	70	70	70	70	70	70	70	70	70
	25-1/2	70	70	70	70	70	70	70	70	70	70
	31-1/2	70	70	70	70	70	70	70	70	70	70
	38	70	70	70	70	70	70	70	70	70	70
	44	70	70	70	70	70	70	70	70	70	70
	50	-	-	70	70	70	70	70	70	70	70
	56	-	-	70	70	70	70	70	70	70	70
67	8	70	70	70	70	70	70	70	70	70	70
	12	70	70	70	70	70	70	70	70	70	70
	16	70	70	70	70	70	70	70	70	70	70
	20	70	70	70	70	70	70	70	70	70	70
	25-1/2	70	70	70	70	70	70	70	70	70	70
	31-1/2	70	70	70	70	70	70	70	70	70	70
	38	70	70	70	70	70	70	70	70	70	70
	44	-	-	70	70	70	70	70	70	70	70
	50	-	-	70	70	70	70	70	70	70	70
	56	-	-	70	70	-	-	70	70	70	70
73	8	70	70	70	70	70	70	70	70	70	70
	12	70	70	70	70	70	70	70	70	70	70
	16	70	70	70	70	70	70	70	70	70	70
	20	70	70	70	70	70	70	70	70	70	70
	25-1/2	70	70	70	70	70	70	70	70	70	70
	31-1/2	70	70	70	70	70	70	70	70	70	70
	38	-	-	70	70	70	70	70	70	70	70
	44	-	-	70	70	70	70	70	70	70	70
	50	-	-	70	70	-	-	70	70	70	70
	56	-	-	70	70	-	-	70	70	70	70
78	8	70	70	70	70	70	70	70	70	70	70
	12	70	70	70	70	70	70	70	70	70	70
	16	70	70	70	70	70	70	70	70	70	70
	20	70	70	70	70	70	70	70	70	70	70
	25-1/2	70	70	70	70	70	70	70	70	70	70
	31-1/2	70	70	70	70	70	70	70	70	70	70
	38	-	-	70	70	70	70	70	70	70	70
	44	-	-	70	70	70	70	70	70	70	70
	50	-	-	70	70	-	-	70	70	70	70
	56	-	-	70	70	-	-	70	70	70	70



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FLORIDA BUILDING CODE EIGHTH EDITION (2023)

FLORIDA STATEWIDE APPROVAL (FSA FL#33108.1)

REMARKS	2020 FBC (19-20199)	2023 FBC UPDATE	DRWN / CHKD		DATE	
			JPC	AJP	08/13/20	08/16/23
			SQ	RS	.	.
			.	.	.	.

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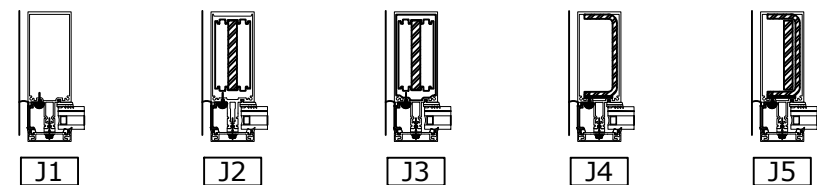
SCALE: NTS UNLESS NOTED

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41



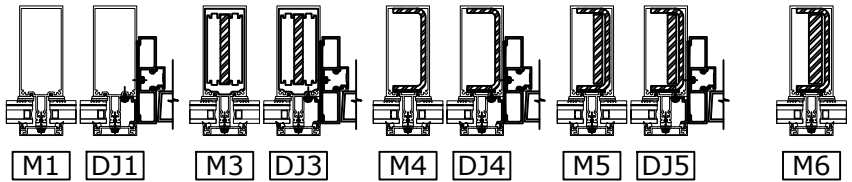
MAXIMUM A.S.D. DESIGN PRESSURE RATING
FOR STANDARD JAMBS - SINGLE SPAN

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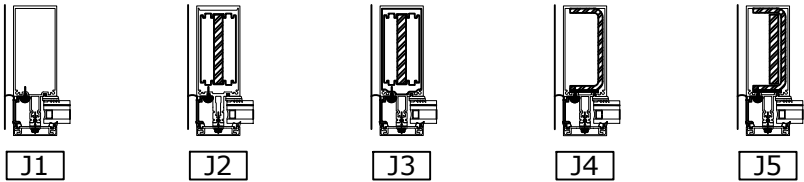
09 OF 41

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD
MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		M1 - DJ1		M3 - DJ3		M4 - DJ4		M5 - DJ5		M6	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
106	24	65	65	70	70	70	70	70	70	70	70
	30	65	65	70	70	70	70	70	70	70	70
	36	65	65	70	70	70	70	70	70	70	70
	42	65	65	70	70	70	70	70	70	70	70
	48	60	60	70	70	70	70	70	70	70	70
	54	-	-	70	70	70	70	70	70	70	70
	60	-	-	70	70	70	70	70	70	70	70
	66	-	-	70	70	70	70	70	70	70	70
	72	-	-	70	70	70	70	70	70	70	70
74	-	-	70	70	70	70	70	70	70	70	
114	24	-	-	70	70	70	70	70	70	70	70
	30	-	-	70	70	70	70	70	70	70	70
	36	-	-	70	70	70	70	70	70	70	70
	42	-	-	70	70	70	70	70	70	70	70
	48	-	-	70	70	70	70	70	70	70	70
	54	-	-	70	70	70	70	70	70	70	70
	60	-	-	70	70	70	70	70	70	70	70
	66	-	-	70	70	70	70	70	70	70	70
	72	-	-	70	70	70	70	70	70	70	70
74	-	-	70	70	70	70	70	70	70	70	
120	24	-	-	70	70	70	70	70	70	70	70
	30	-	-	70	70	70	70	70	70	70	70
	36	-	-	70	70	70	70	70	70	70	70
	42	-	-	70	70	70	70	70	70	70	70
	48	-	-	70	70	70	70	70	70	70	70
	54	-	-	70	70	70	70	70	70	70	70
	60	-	-	70	70	70	70	70	70	70	70
	66	-	-	70	70	70	70	70	70	70	70
	72	-	-	70	70	70	70	70	70	70	70
74	-	-	70	70	70	70	70	70	70	70	
126	24	-	-	70	70	70	70	70	70	70	70
	30	-	-	70	70	70	70	70	70	70	70
	36	-	-	70	70	70	70	70	70	70	70
	42	-	-	70	70	70	70	70	70	70	70
	48	-	-	70	70	70	70	70	70	70	70
	54	-	-	70	70	70	70	70	70	70	70
	60	-	-	70	70	70	70	70	70	70	70
	66	-	-	70	70	70	70	70	70	70	70
	72	-	-	-	-	-	-	70	70	-	-
74	-	-	-	-	-	-	70	70	-	-	



MAXIMUM A.S.D. DESIGN PRESSURE RATING
FOR STANDARD JAMBS - SINGLE SPAN

[illegible]

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REMARKS	DRWN	CHKD	DATE
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2020 FBC (19-20199)	JPC	AJP	08/13/20
2023 FBC UPDATE	SQ	RS	08/16/23

04		
5	,	
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1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
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81	82	83	84
85	86	87	88
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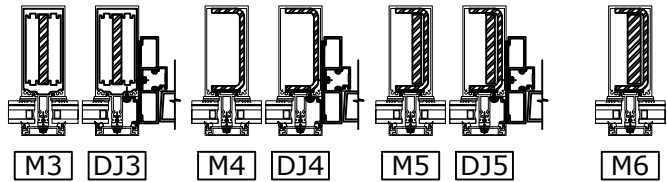
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4

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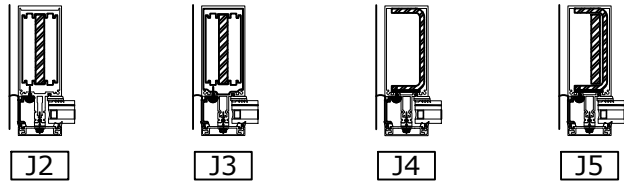
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD
MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		M3 - DJ3		M4 - DJ4		M5 - DJ5		M6	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
132	24	70	70	70	70	70	70	70	70
	30	70	70	70	70	70	70	70	70
	36	70	70	70	70	70	70	70	70
	42	70	70	70	70	70	70	70	70
	48	70	70	70	70	70	70	70	70
	54	70	70	70	70	70	70	70	70
	60	70	70	70	70	70	70	70	70
	66	70	70	70	70	70	70	70	70
	72	-	-	-	-	70	70	-	-
	74	-	-	-	-	70	70	-	-
138	24	70	70	70	70	70	70	70	70
	30	70	70	70	70	70	70	70	70
	36	70	70	70	70	70	70	70	70
	42	70	70	70	70	70	70	70	70
	48	70	70	70	70	70	70	70	70
	54	70	70	70	70	70	70	70	70
	60	70	70	70	70	70	70	70	70
	66	-	-	-	-	70	70	-	-
	72	-	-	-	-	70	70	-	-
	74	-	-	-	-	70	70	-	-
144	24	70	70	70	70	70	70	70	70
	30	70	70	70	70	70	70	70	70
	36	70	70	70	70	70	70	70	70
	42	70	70	70	70	70	70	70	70
	48	70	70	70	70	70	70	70	70
	54	70	70	70	70	70	70	70	70
	60	70	70	70	70	70	70	70	70
	66	-	-	-	-	70	70	-	-
	72	-	-	-	-	70	70	-	-
	74	-	-	-	-	70	70	-	-
150	24	70	70	70	70	70	70	70	70
	30	70	70	70	70	70	70	70	70
	36	70	70	70	70	70	70	70	70
	42	70	70	70	70	70	70	70	70
	48	70	70	70	70	70	70	70	70
	54	70	70	70	70	70	70	70	70
	60	70	70	70	70	70	70	70	70
	66	-	-	-	-	70	70	-	-
	72	-	-	-	-	70	70	-	-
	74	-	-	-	-	70	70	-	-

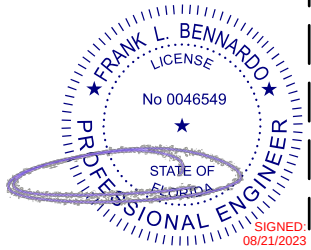


MAXIMUM A.S.D. DESIGN PRESSURE RATING
FOR STANDARD JAMBS - SINGLE SPAN

SINGLE SPAN JAMB LOADING CHART		JAMB TYPE		JAMB TYPE		JAMB TYPE		JAMB TYPE	
		J2		J3		J4		J5	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
132	8	70	70	70	70	70	70	70	70
	12	70	70	70	70	70	70	70	70
	16	70	70	70	70	70	70	70	70
	20	70	70	70	70	70	70	70	70
	25-1/2	70	70	70	70	70	70	70	70
	31-1/2	70	70	-	-	70	70	70	70
	38	-	-	-	-	-	-	70	70
	44	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-
	56	-	-	-	-	-	-	-	-
138	8	70	70	70	70	70	70	70	70
	12	70	70	70	70	70	70	70	70
	16	70	70	70	70	70	70	70	70
	20	70	70	70	70	70	70	70	70
	25-1/2	70	70	70	70	70	70	70	70
	31-1/2	70	70	-	-	70	70	70	70
	38	-	-	-	-	-	-	70	70
	44	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-
	56	-	-	-	-	-	-	-	-
144	8	70	70	70	70	70	70	70	70
	12	70	70	70	70	70	70	70	70
	16	70	70	70	70	70	70	70	70
	20	70	70	70	70	70	70	70	70
	25-1/2	70	70	70	70	70	70	70	70
	31-1/2	70	70	-	-	70	70	70	70
	38	-	-	-	-	-	-	70	70
	44	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-
	56	-	-	-	-	-	-	-	-
150	8	70	70	-	-	70	70	70	70
	12	70	70	-	-	70	70	70	70
	16	70	70	-	-	70	70	70	70
	20	70	70	-	-	70	70	70	70
	25-1/2	70	70	-	-	70	70	70	70
	31-1/2	70	70	-	-	70	70	70	70
	38	-	-	-	-	-	-	70	70
	44	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-
	56	-	-	-	-	-	-	-	-



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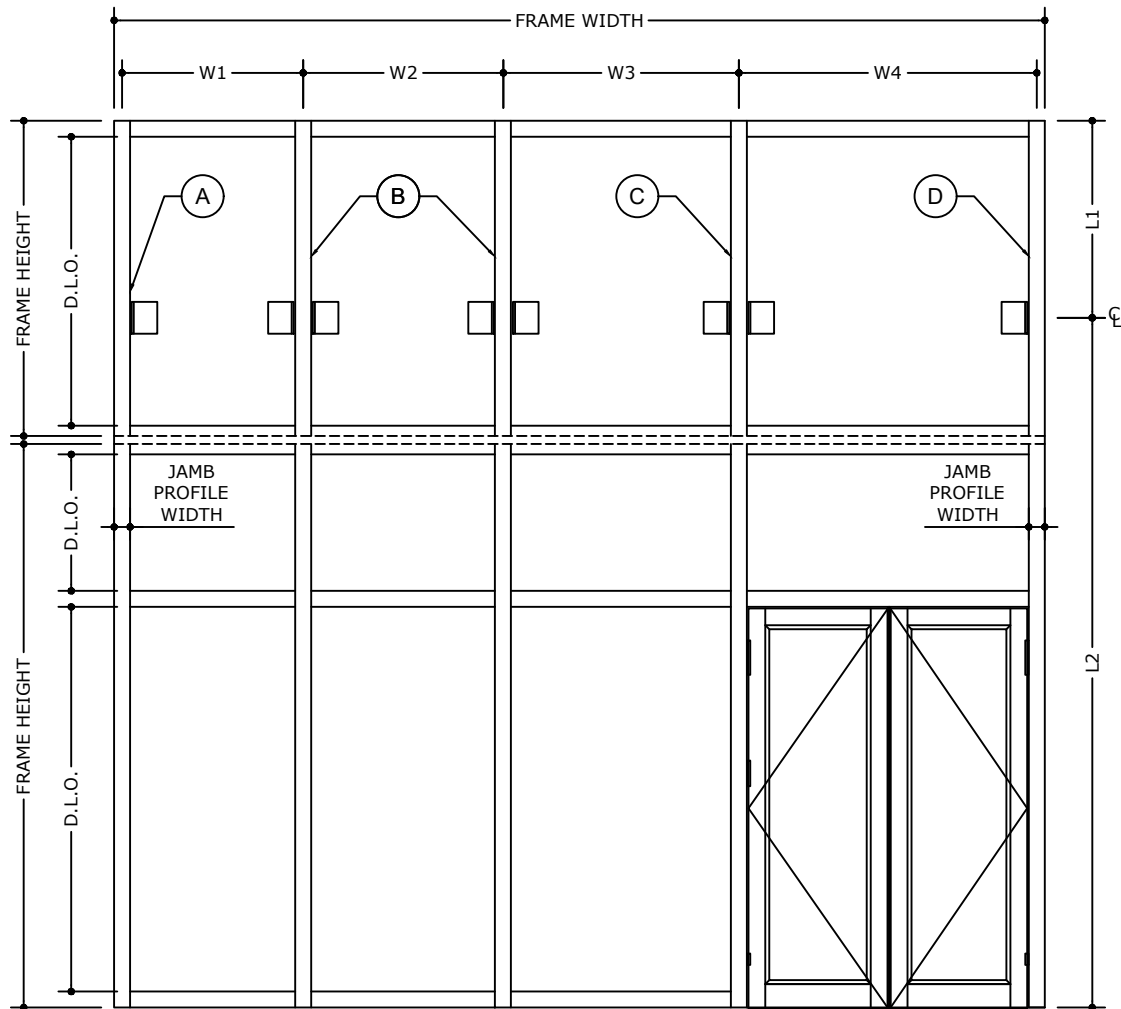
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2023 FBC UPDATE	SQ	RS	08/16/23

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TWIN SPAN MULLION DETERMINATION LOAD



SPAN (L) = LARGER OF L1 OR L2

LOAD DETERMINATION

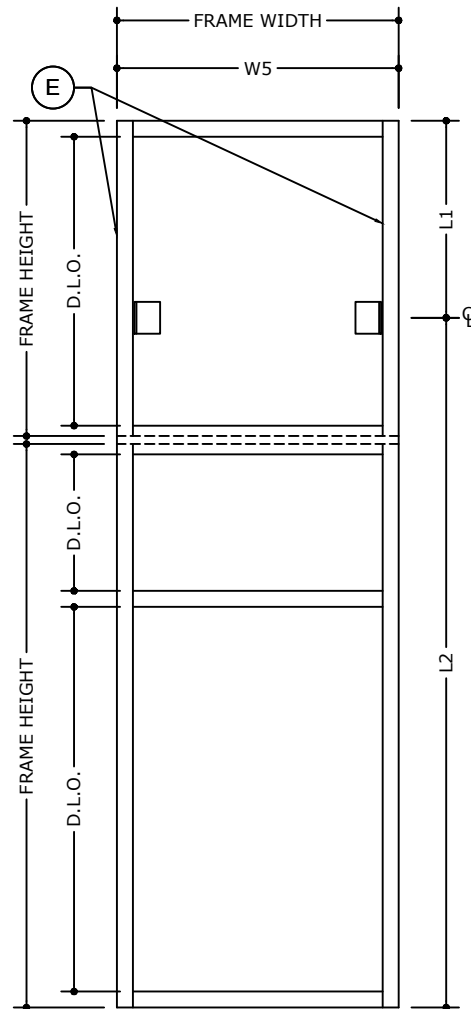
TRIBUTARY WIDTH A = $\frac{W1}{2} + 1/2"$ JAMB PROFILE WIDTH
(FOR STANDARD JAMB MULLION)

TRIBUTARY WIDTH B = LARGER OF $\frac{W1 + W2}{2}$ OR $\frac{W2 + W3}{2}$
(FOR STANDARD MULLION)

TRIBUTARY WIDTH C = $\frac{W3 + W4}{2}$
(FOR INTERMEDIATE DOOR MULLION)

TRIBUTARY WIDTH D = $\frac{W4}{2} + 1/2"$ JAMB PROFILE WIDTH
(FOR DOOR JAMB MULLION)

- A E JAMB MULLION
- B STANDARD MULLION
- C DOOR JAMB INTERMEDIATE MULLION
- D DOOR JAMB MULLION

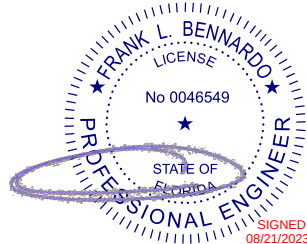


LOAD DETERMINATION

TRIBUTARY WIDTH E = $\frac{W5}{2}$
(FOR STANDARD JAMB MULLION)

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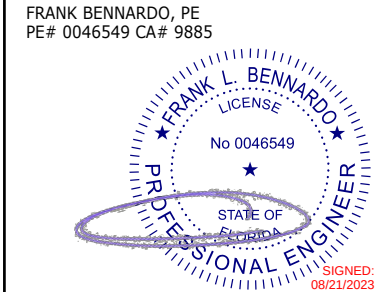
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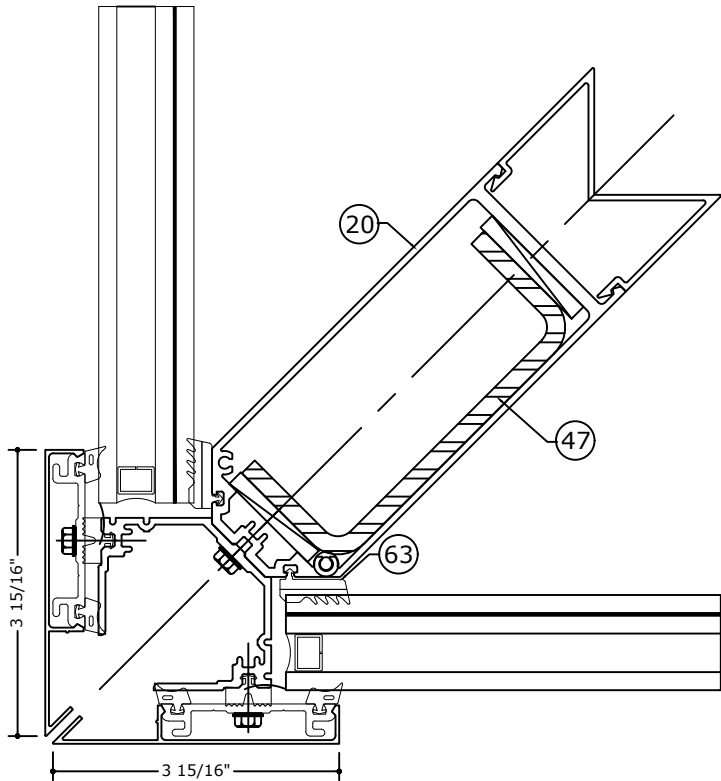
OF
41

RelianceTM StormMax[®] TWIN SPAN MULLION (WITH & WITHOUT SPLICE)



FL

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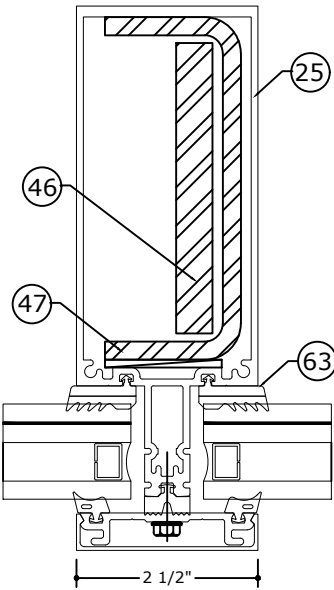


TCM1

Ix= 27.782 in4
Sx= 8.6737 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 7 ON 31

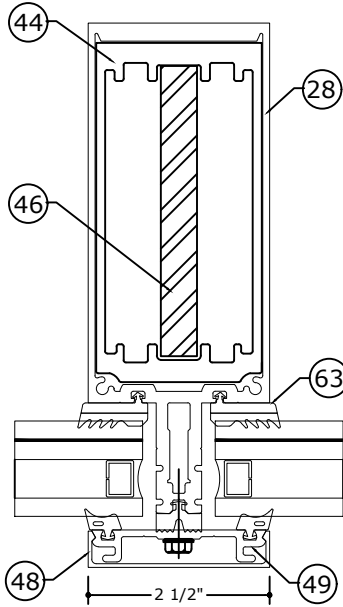


TM1

Ix= 33.207 in4
Sx= 7.602 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6 ON 31



TM2

Ix= 32.185 in4
Sx= 9.1693 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6.1 ON 31

NOTE:
REFER TO PAGE 16 & 17 FOR
LENGTH OF SLEEVE (PART 44)
& AND REINFORCEMENT (PART
46 & 47)

NOTE:
REINFORCEMENT MEMBERS
MUST BE SHIMMED TIGHT.

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FLORIDA STATEWIDE APPROVAL (FSA FL#33108.1)

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41

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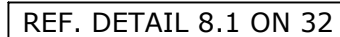
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FLORIDA STATEWIDE APPROVAL (FSA FI #33108.1)

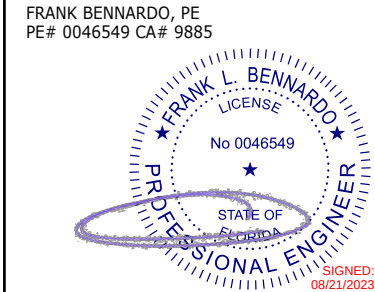


NOTE:
REINFORCEMENT MEMBERS
MUST BE SHIMMED TIGHT.

REMARKS	DRWN	CHKD	DATE
2020 FEB (19-2019)	JPC	AJP	08/13/20
2020 FEB UPDATE	SQ	RS	08/16/23
-	-	-	-
-	-	-	-
-	-	-	-

15 OF 41

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



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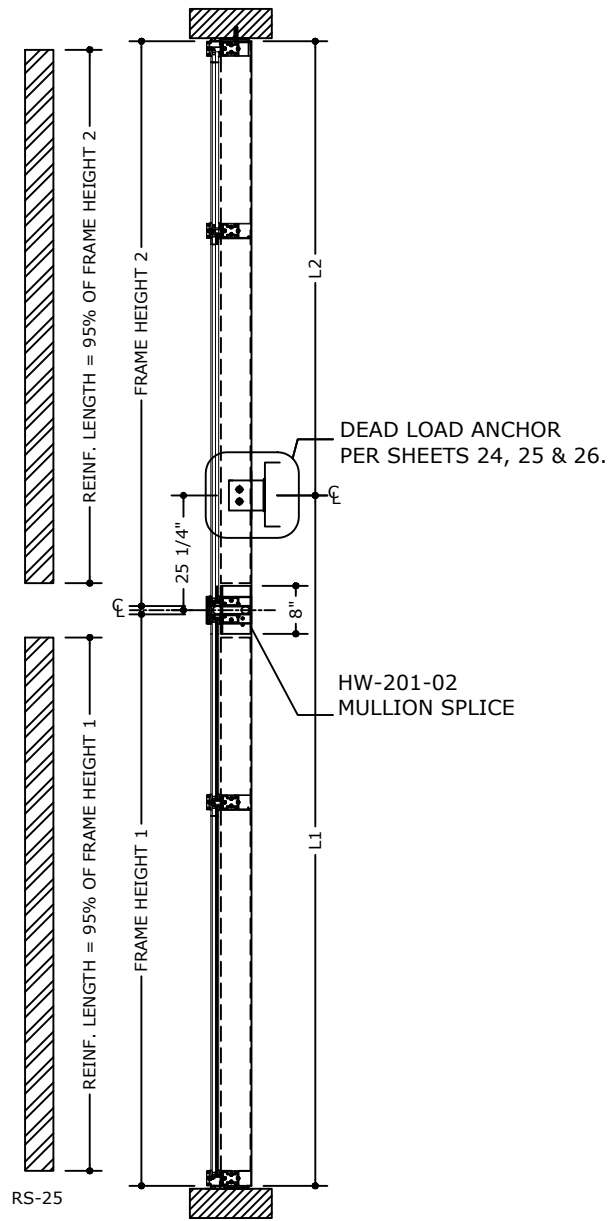
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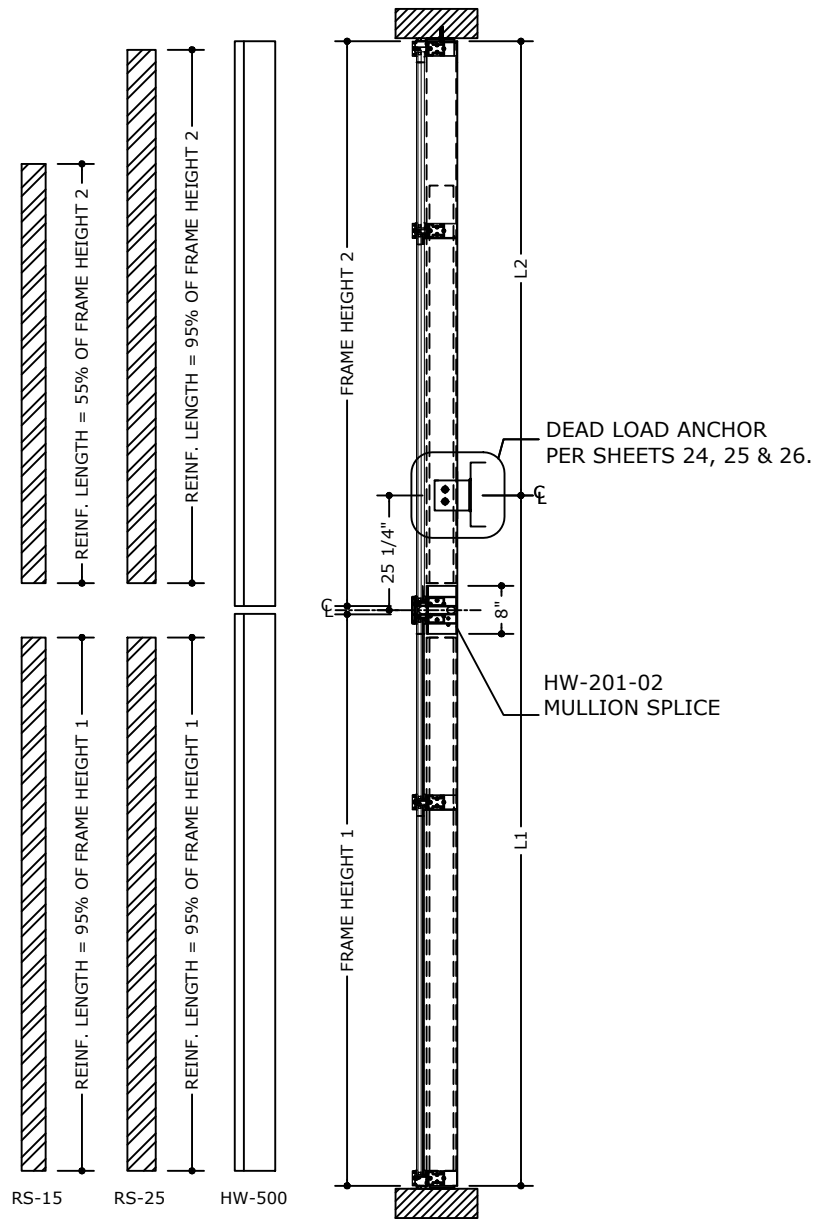
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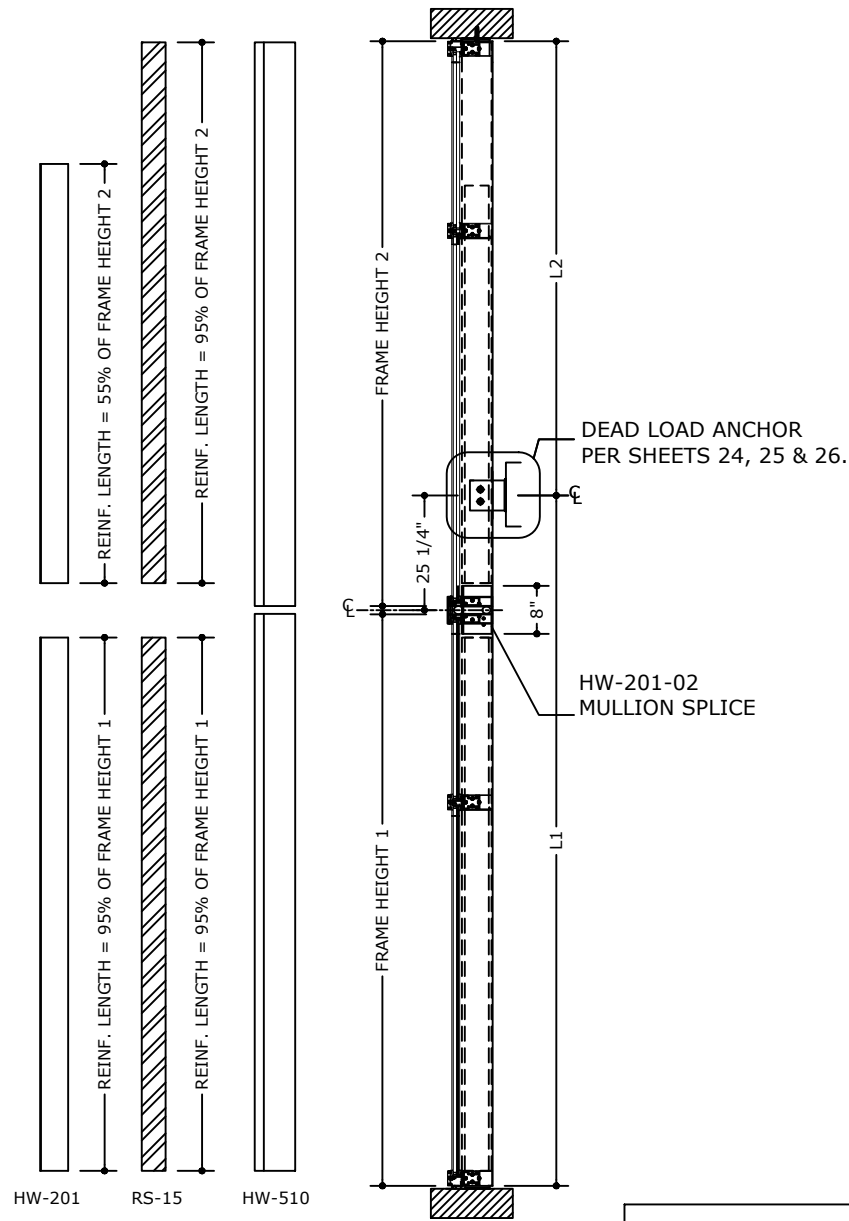


HW-500 AT JAMB MULLION
HW-240 AT CORNER MULLION

SIDE VIEW FOR: TJ1 TCM1



SIDE VIEW FOR: TM1 TDJ1



SIDE VIEW FOR: TM2

NOTE: REFER TO 4/30
AND 4.1/30 FOR
REINFORCEMENT
LOCATION

NOTE: CONTINUOUS
REINFORCEMENT AS
SHOWN

NOTE:
L1+ L2 SHALL NOT
EXCEED 325" IN LENGTH

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

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PE# 0046549 CA# 9885

FRANK L. BENNARDO

LICENSE

No 0046549

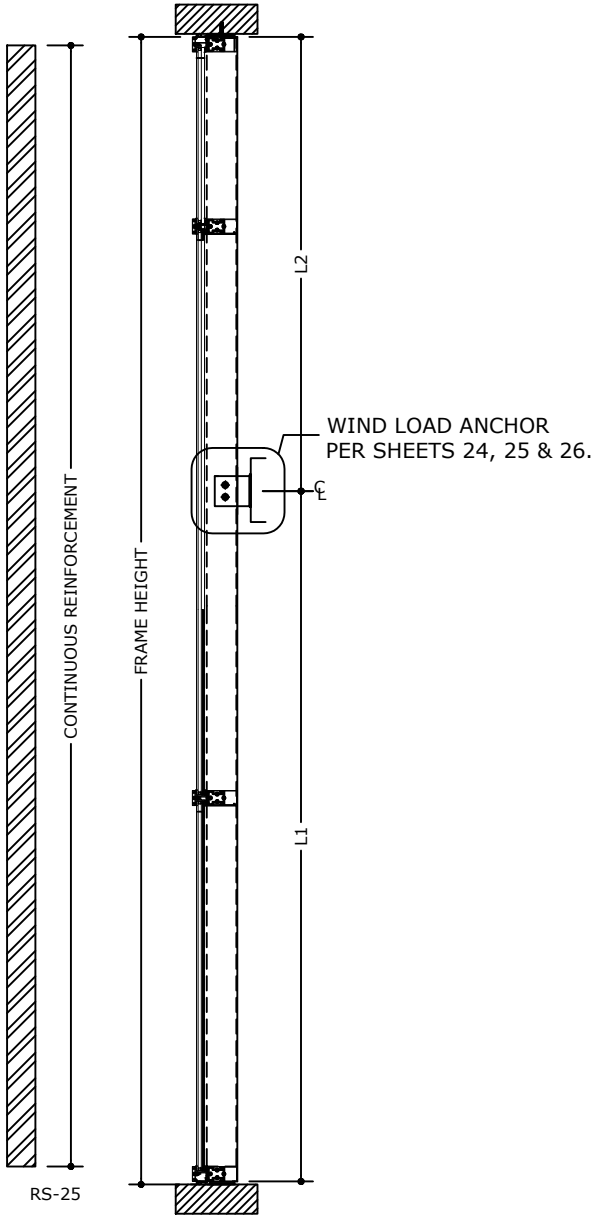
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PROFESSIONAL ENGINEER

SIGNED: 08/21/2023

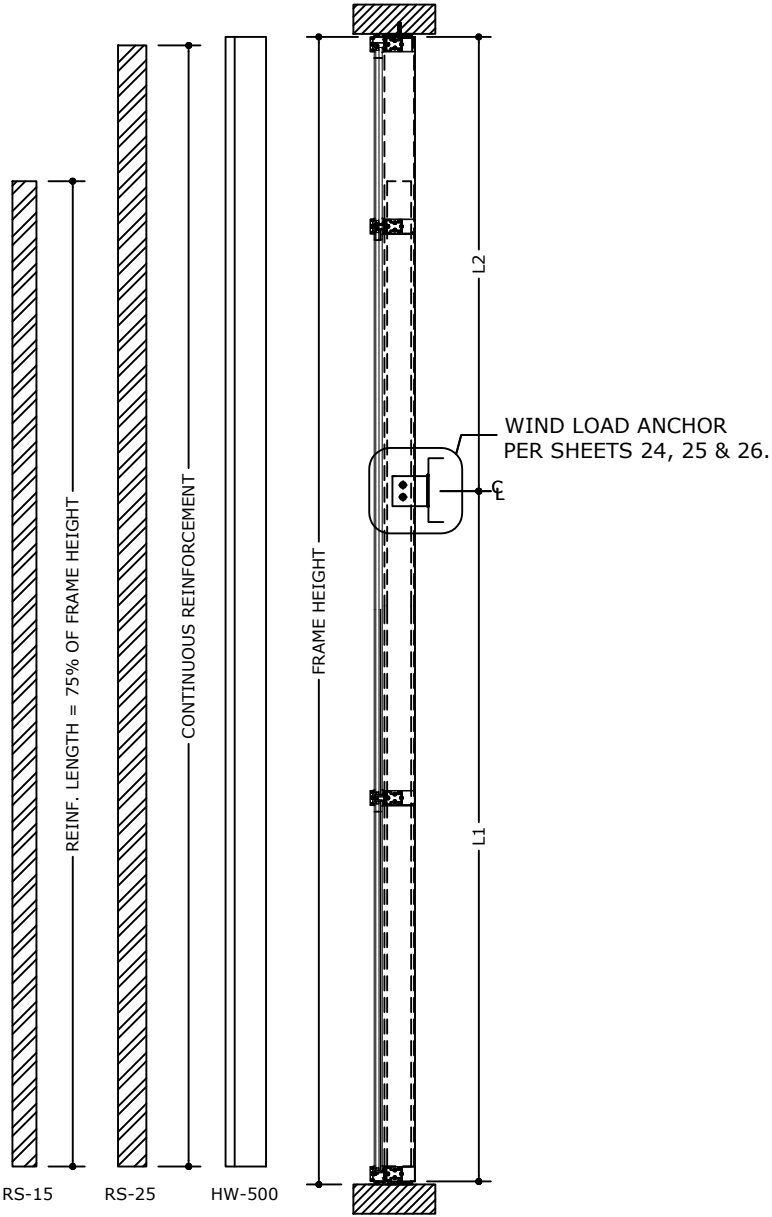
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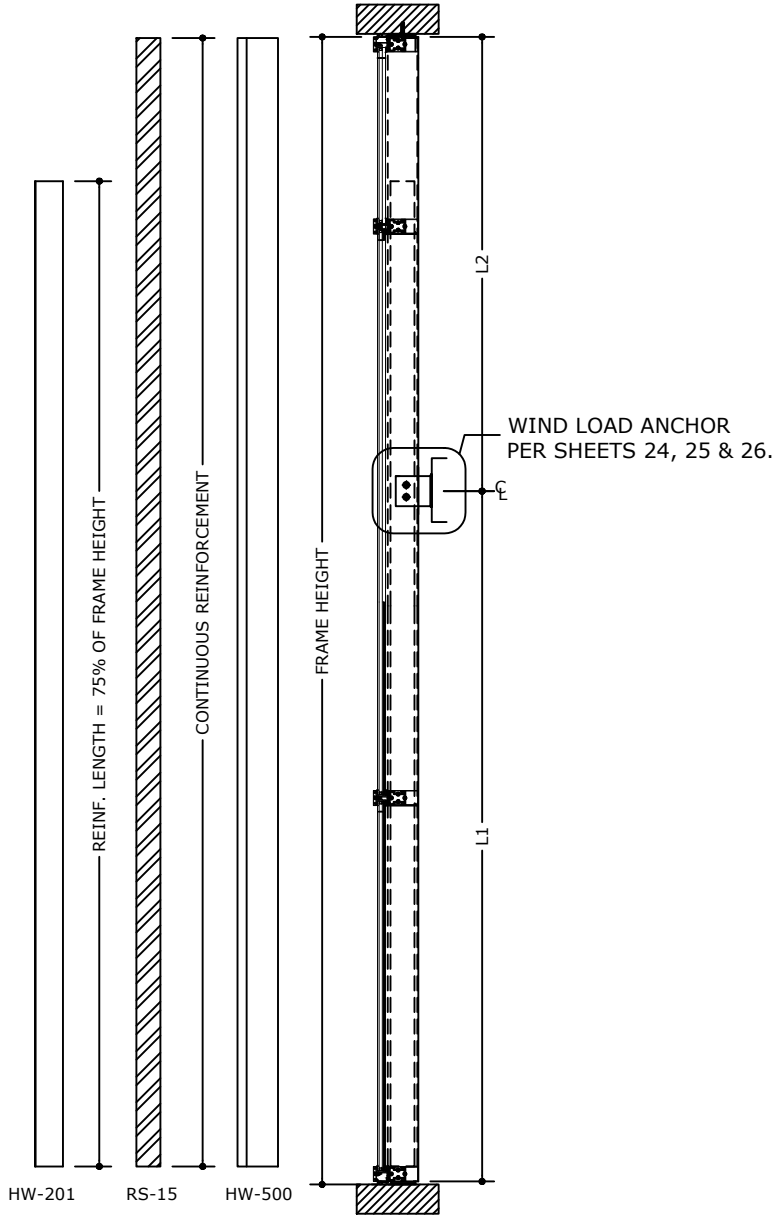


HW-500 AT JAMB MULLION
HW-240 AT CORNER MULLION

SIDE VIEW FOR: TJ1 TCM1



SIDE VIEW FOR: TM1 TDJ1



SIDE VIEW FOR: TM2

NOTE: CONTINUOUS
REINFORCEMENT AS
SHOWN

NOTE:
L1+ L2 SHALL NOT
EXCEED 325" IN LENGTH

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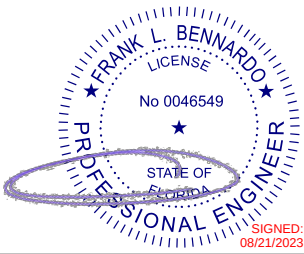
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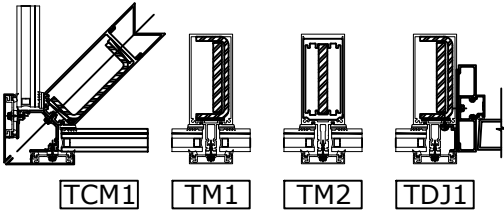


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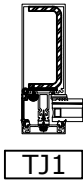
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD MULLIONS
TWIN SPAN WITH SLICED AND NON-SPICED MULLIONS

TWIN SPAN MULLION LOADING CHART		MULLION TYPE	
		TCM1 - TM1 - TM2 - TDJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
96	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70
	72	70	70
102	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70
	72	70	70
108	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70
	72	70	70



MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD JAMBS
TWIN SPAN WITH SLICED AND NON-SPICED JAMBS

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (In)	(+) P.S.F.	(-) P.S.F.
96	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
	38	70	70
	44	70	70
	50	70	70
	56	70	70
102	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
	38	70	70
	44	70	70
	50	70	70
	56	70	70
108	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
	38	70	70
	44	70	70
	50	70	70
	56	70	70



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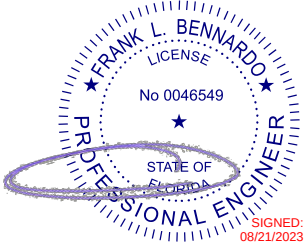
18

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c:\users\sam\engineering express\production - documents\projects\23-59835 multiple products 2023 fbc update fl 33108\work\drawings & cad\23-59835a - fl33108.1 - fbc 2023.dwg

8/21/2023 11:19 AM SAM

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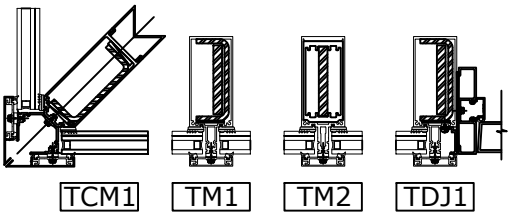


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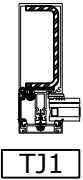
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD MULLIONS
TWIN SPAN WITH SLICED AND NON-SPICED MULLIONS

TWIN SPAN MULLION LOADING CHART		MULLION TYPE	
		TCM1 - TM1 - TM2 - TDJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
114	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70
	72	70	70
120	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70
	72	70	70
126	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70
	72	70	70



MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD JAMBS
TWIN SPAN WITH SLICED AND NON-SPICED JAMBS

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (In)	(+) P.S.F.	(-) P.S.F.
114	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
	38	70	70
	44	70	70
	44	70	70
	44	70	70
120	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
	38	70	70
	44	70	70
	44	70	70
	44	70	70
126	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
	38	70	70



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SQ RS

DATE
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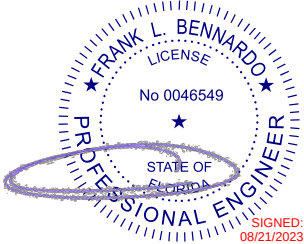
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19 OF 41

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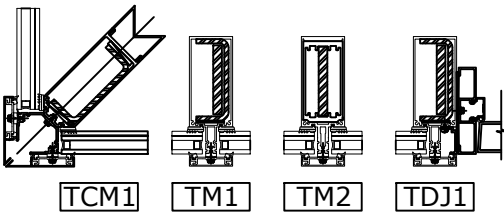


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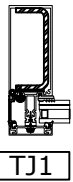
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD MULLIONS
TWIN SPAN WITH SLICED AND NON-SPICED MULLIONS

TWIN SPAN MULLION LOADING CHART		MULLION TYPE	
		TCM1 - TM1 - TM2 - TDJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
132	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70
138	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70
144	24	70	70
	30	70	70
	36	70	70
	42	70	70
	48	70	70
	54	70	70
	60	70	70
	66	70	70
	72	70	70



MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD JAMBS
TWIN SPAN WITH SLICED AND NON-SPICED JAMBS

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (In)	(+) P.S.F.	(-) P.S.F.
132	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
	38	70	70
138	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
144	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70



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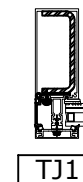
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MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD JAMBS
TWIN SPAN WITH SLICED AND NON-SPICED JAMBS

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (In)	(+) P.S.F.	(-) P.S.F.
150	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
156	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
162	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
168	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/2	70	70
175-1/2	8	70	70
	12	70	70
	16	70	70
	20	70	70
	25-1/2	70	70
	31-1/4	70	70



OF
41

SINGLE & TWIN SPAN HEAD & SILL STANDARD OR CORNER MULLION CONNECTIONS

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PE# 0046549 CA# 9885

FRANK L. BENNARDO

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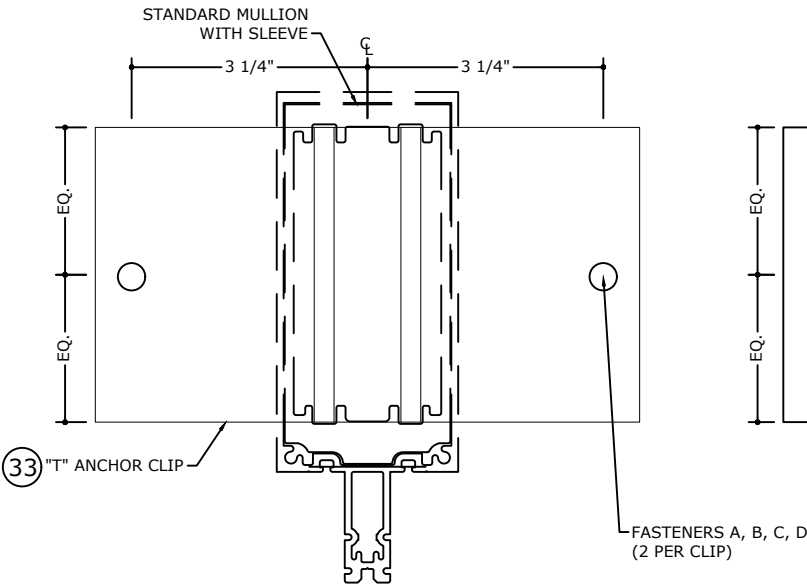
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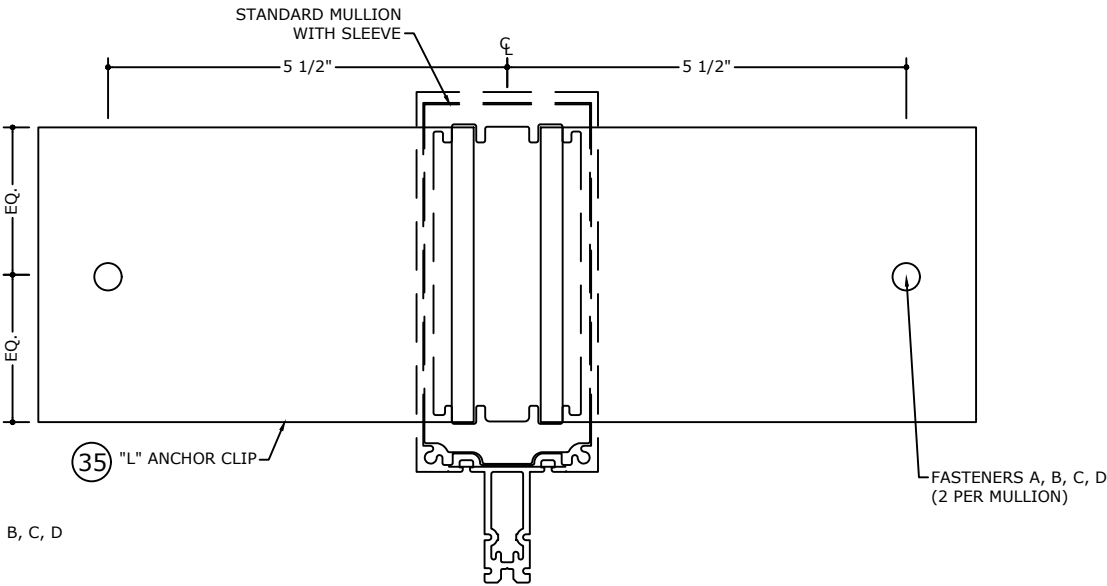
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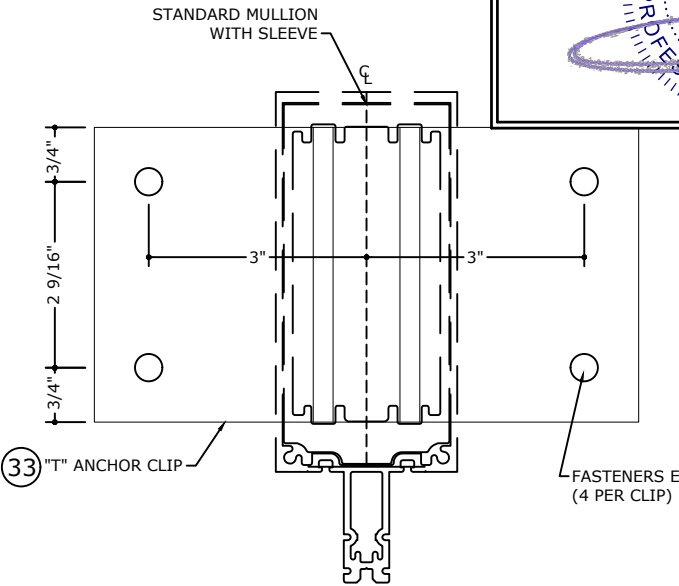
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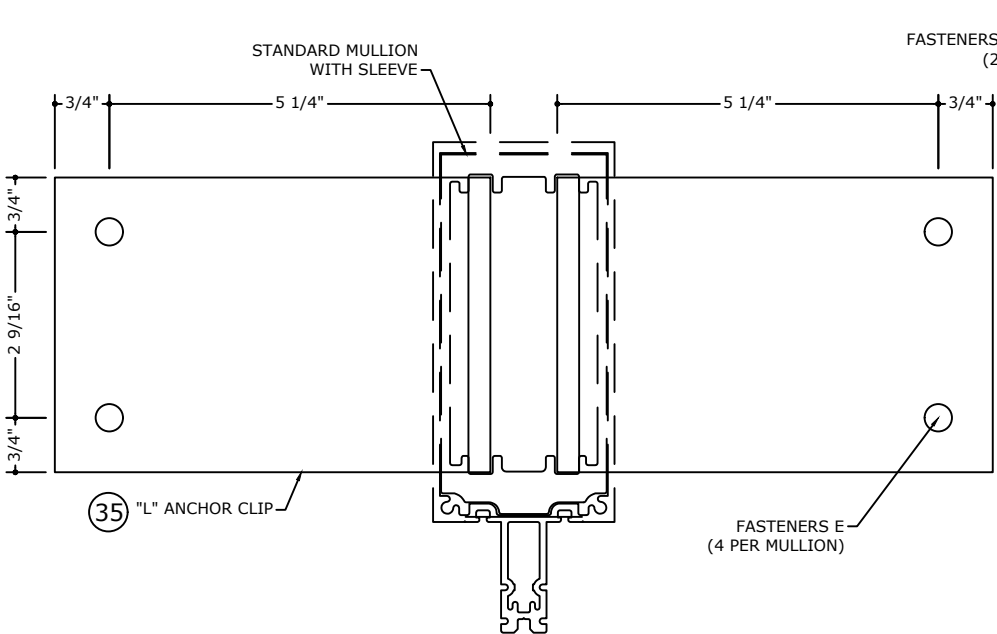
"T" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
FASTENERS A, B, C & D
CONCRETE & STEEL



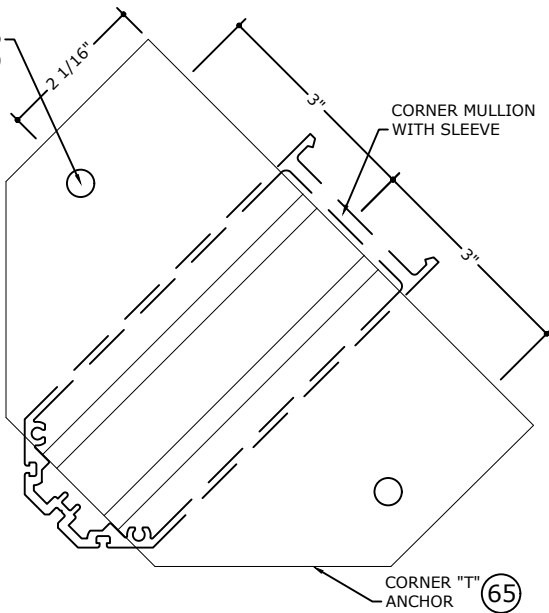
"L" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
FASTENERS A, B, C & D
CONCRETE & STEEL



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



"L" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
FASTENERS E
WOOD



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

FASTENER TYPES

- A - 1/2" Ø HILTI KWIK BOLT TZ ANCHOR WITH 3 1/4" MIN. EMBEDMENT INTO 8" MIN. THICK POURED CONCRETE (MIN. f'c=3 ksi.) BEYOND ANY FINISH MATERIAL WITH 6" MIN. EDGE DISTANCE.

70 P.S.F. MAX.**
- B - 1/2" Ø HILTI KWIK BOLT TZ ANCHOR WITH 3 1/4" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (MIN. f'c=3 ksi.) BEYOND ANY FINISH MATERIAL WITH 7 1/2" MIN. EDGE DISTANCE.

70 P.S.F. MAX.**
- C - 1/2" Ø HILTI KWIK HUS-H SCREW ANCHOR WITH 3" MIN. EMBEDMENT INTO 4" MIN. THICK POURED CONCRETE (MIN. f'c=3 ksi.) BEYOND ANY FINISH MATERIAL WITH 3 3/4" MIN. EDGE DISTANCE.

70 P.S.F. MAX.**
- D - 1/2" Ø -13 TYPE "F" GRADE 5 BOLT TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE OR 1/2" Ø -13 SAE GALVANIZED STEEL GRADE 5 HHB THRU BOLT WITH NUT & LOCK WASHER TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE.

70 P.S.F. MAX.**
- E - 3/8" Ø LAG SCREW WITH 3" MIN. EMBEDMENT INTO G=0.55" MIN. SPECIFIC GRAVITY WOOD SUBSTRATE WITH 1 1/2" MIN. EDGE DISTANCE.

70 P.S.F. MAX.
REFER TO
LOADING CHART
ON SHEET 23

*NOTE:
1. FOR SPANS LISTED ON MULLION/GLASS TABLES LIMITED TO MULLION/GLASS DESIGN PRESSURE.
2. INSTALLATION WITH "L" ANCHOR CLIPS ARE LIMITED TO 12' MULLION HEIGHT AND 4' MULLION TRIBUTARY.

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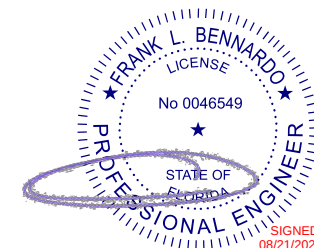
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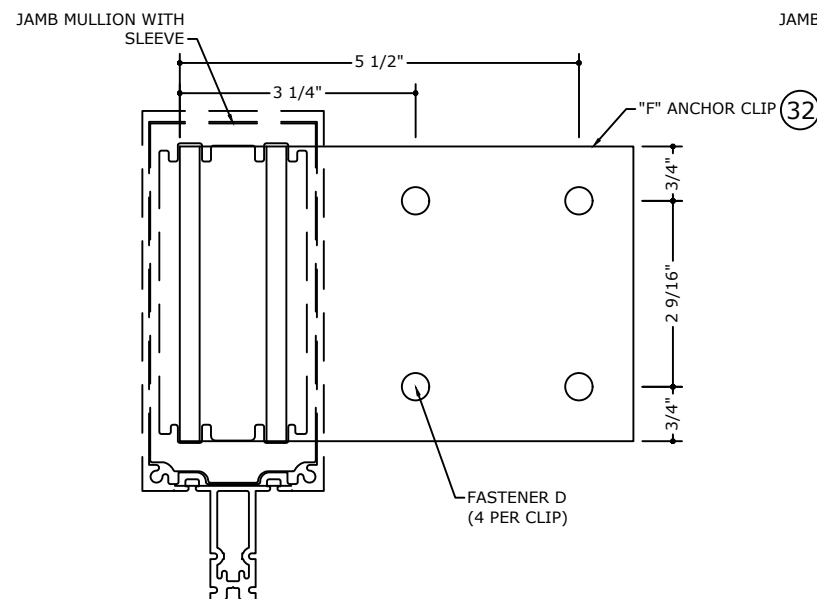
SINGLE & TWIN SPAN HEAD & SILL JAMB OR DOOR JAMB MULLION CONNECTIONS

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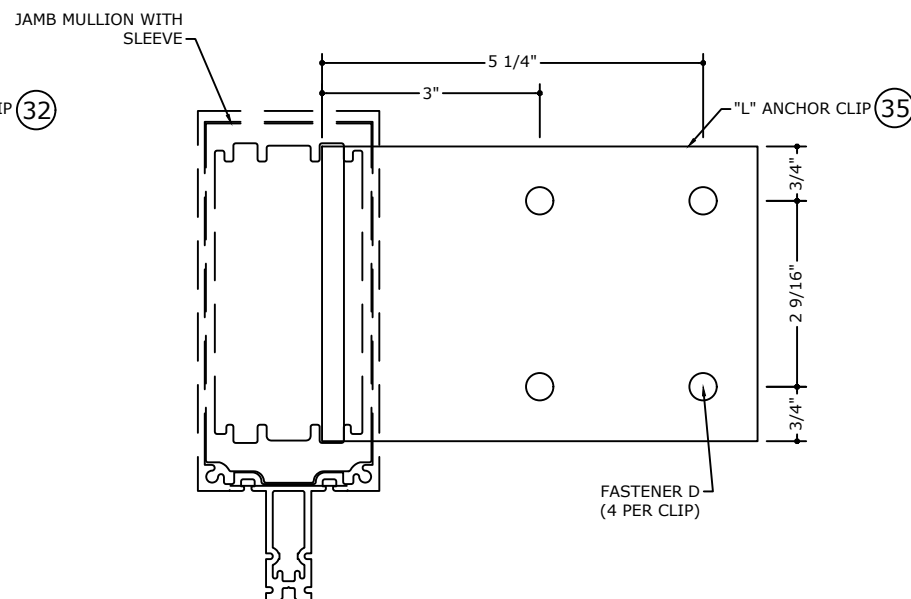
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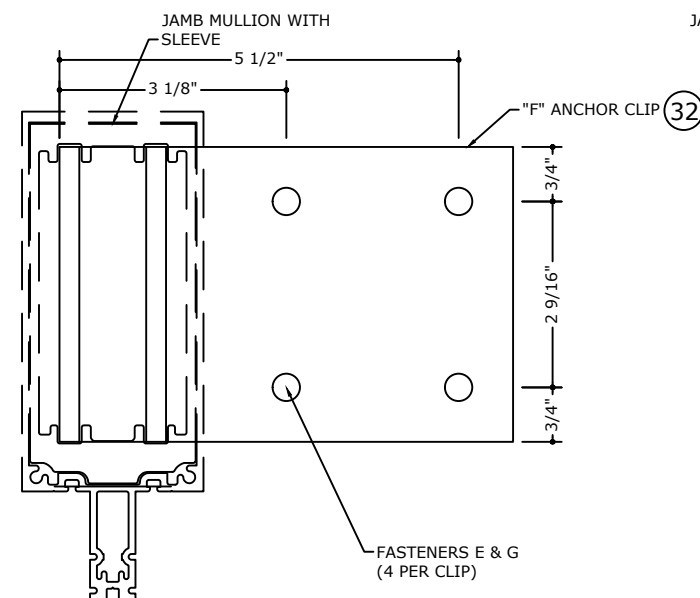
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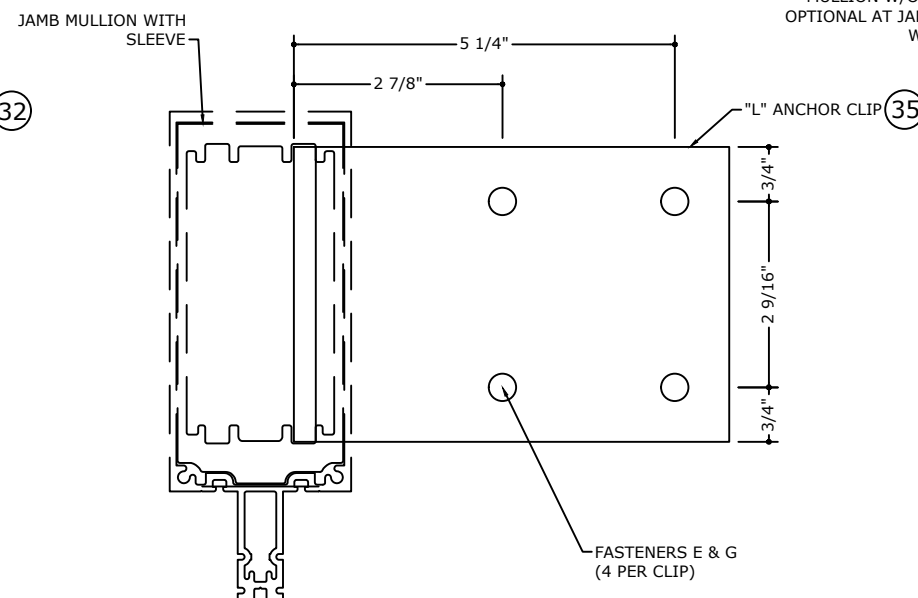
"F" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
FASTENERS D
STEEL



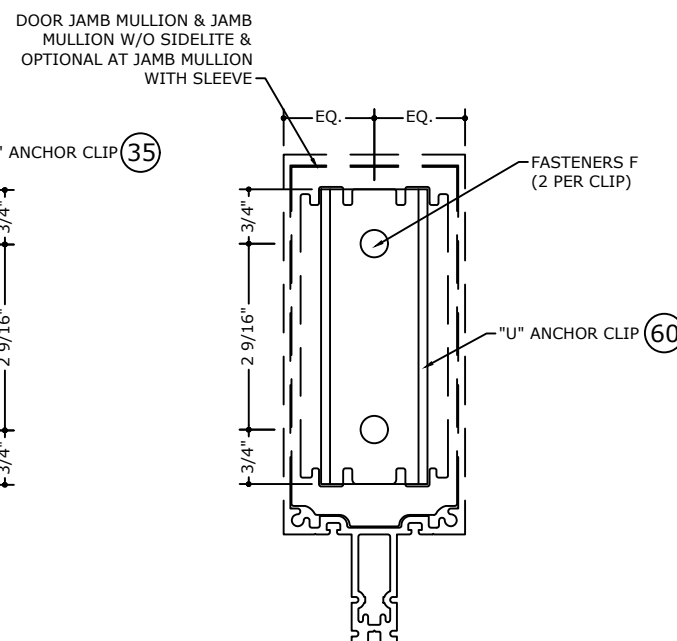
"L" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
FASTENERS D
STEEL



"F" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
FASTENERS E & G
WOOD AND CONCRETE



"L" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
FASTENERS E & G
WOOD AND CONCRETE



"U" ANCHOR WITH SLEEVE
CONNECTION DETAIL FOR
FASTENER F
CONCRETE

FASTENER TYPES

- D - 1/2" Ø -13 TYPE "F" GRADE 5 BOLT TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE OR 1/2"Ø -13 SAE GALVANIZED STEEL GRADE 5 HHB THRU BOLT WITH NUT & LOCK WASHER TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE. 70 P.S.F. MAX.**
- E - 3/8" Ø LAG SCREW WITH 3" MIN. EMBEDMENT INTO G=0.55" MIN. SPECIFIC GRAVITY WOOD SUBSTRATE WITH 1 1/2" MIN. EDGE DISTANCE. 70 P.S.F. MAX. REFER TO LOADING CHART ON SHEET 23
- F - 1/2" Ø DEWALT FASTENER SCREW-BOLT WITH 3 1/2" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (f'c=3 ksi) BEYOND ANY FINISH MATERIAL AND 6" MIN. EDGE DISTANCE. 70 P.S.F. MAX.**
- G - 3/8" Ø DEWALT FASTENER SCREW-BOLT WITH 3 1/2" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (f'c=3 ksi) BEYOND ANY FINISH MATERIAL AND 4 1/2" MIN. EDGE DISTANCE. 70 P.S.F. MAX.**

FASTENER "E" LOADING CHART		
MAX FRAME HEIGHT/SPAN(in)	MAX TRIBUTARY (in)	DESIGN PRESSURE A.S.D.
120" OR LESS	24"	70 PSF
84" OR LESS	36" OR LESS	70 PSF
78" OR LESS	48" OR LESS	60 PSF
78" OR LESS	60" OR LESS	50 PSF
90" OR LESS	72" OR LESS	40 PSF
120" OR LESS	84" OR LESS	20 PSF

*NOTE:
1. FOR SPANS LISTED ON MULLION/GLASS TABLES LIMITED TO MULLION/GLASS DESIGN PRESSURE.
2. INSTALLATION WITH "L" ANCHOR CLIPS ARE LIMITED TO 12' MULLION HEIGHT AND 4' MULLION TRIBUTARY.

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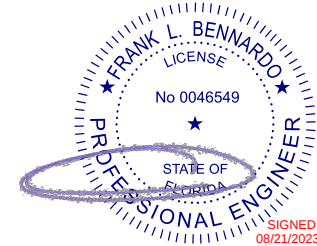
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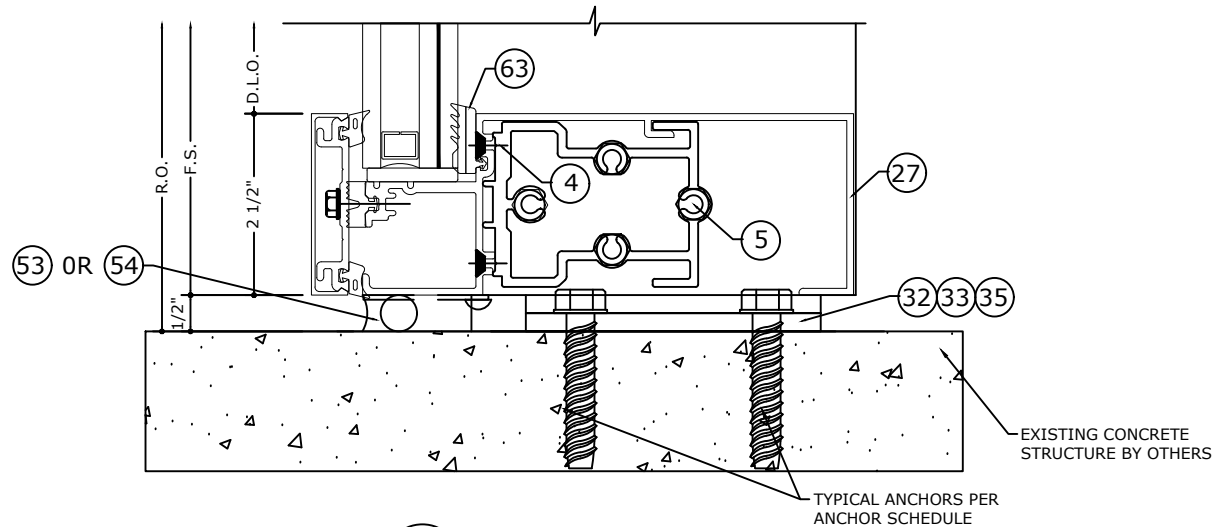
SILL CONNECTION DETAILS

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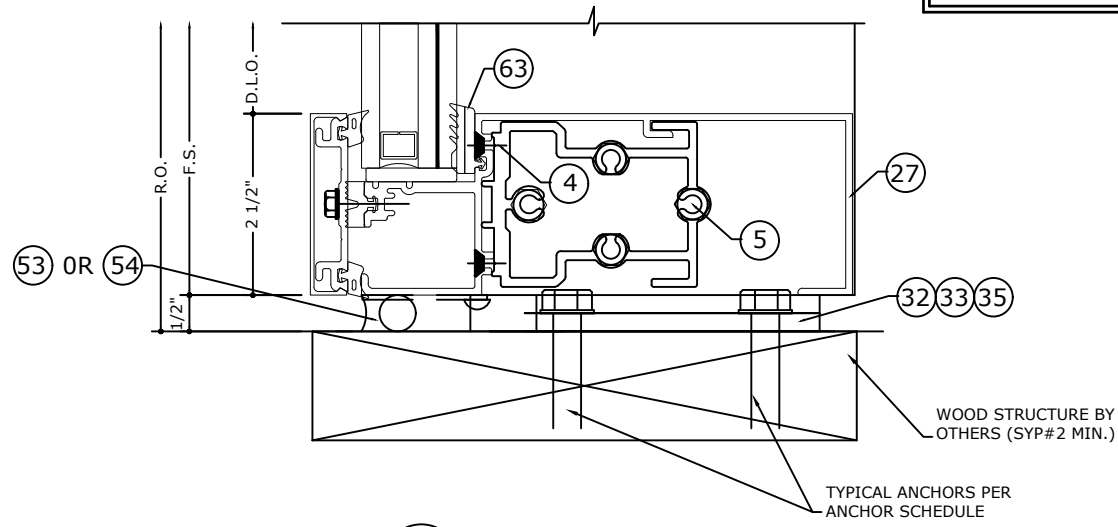
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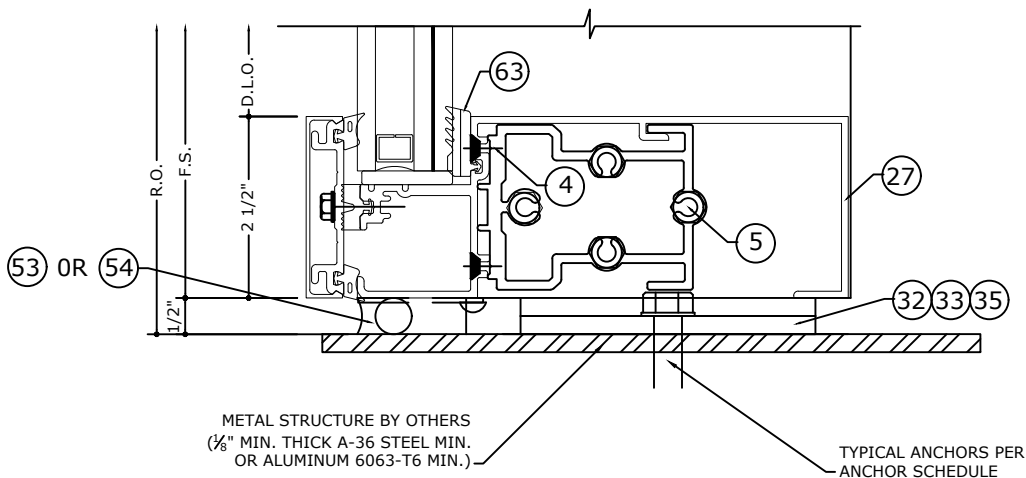
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2 SILL DETAIL



2.1 SILL DETAIL



2.2 SILL DETAIL

NOTE: REFER TO SYSTEM INSTALLATION MANUAL
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HORIZONTAL CONNECTION DETAILS

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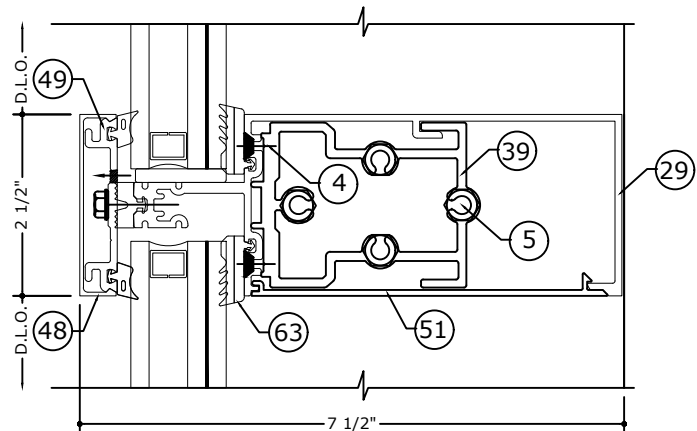
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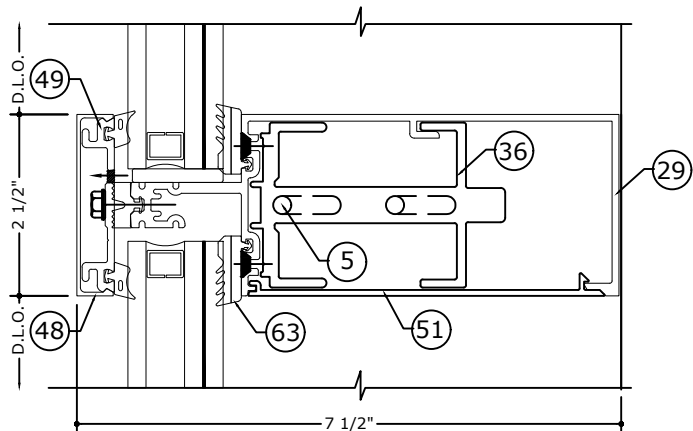
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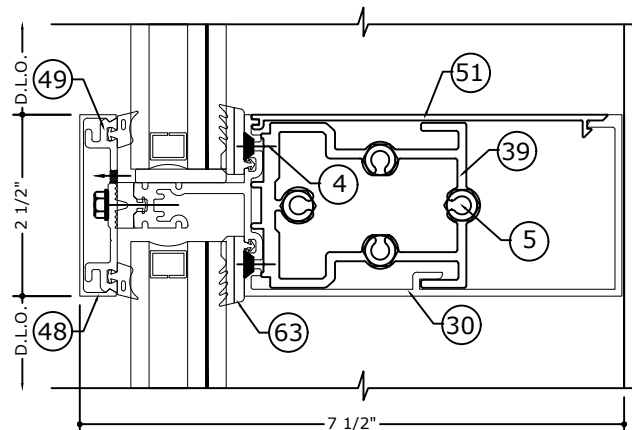
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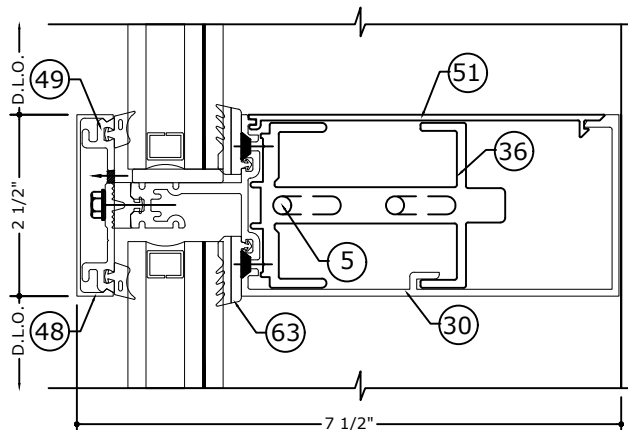
3 INTERMEDIATE HORIZONTAL DETAIL (ROLL OVER)
SCALE: 6" = 1'-0"



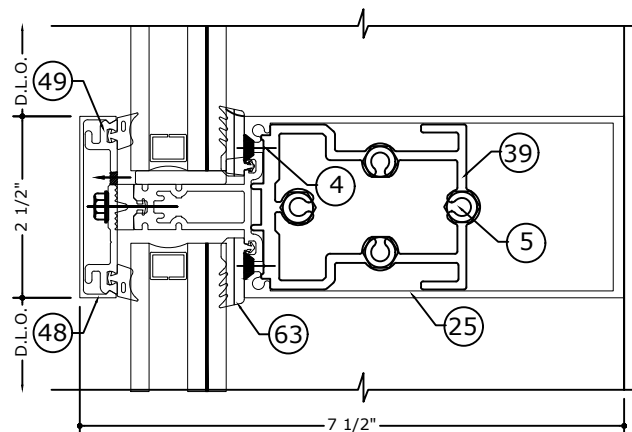
3.1 INTERMEDIATE HORIZONTAL AT CORNER MULLION DETAIL (ROLL OVER)
SCALE: 6" = 1'-0"



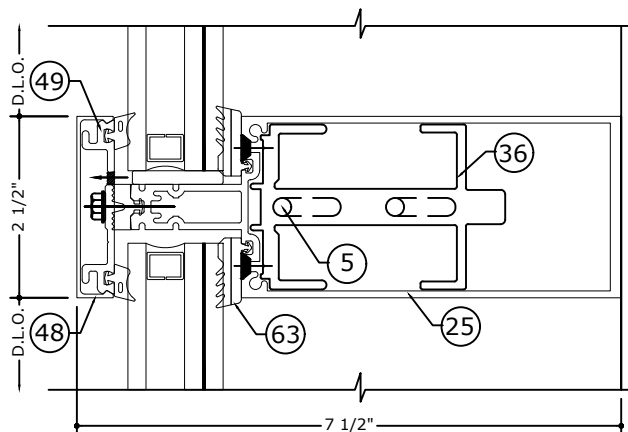
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SCALE: 6" = 1'-0"



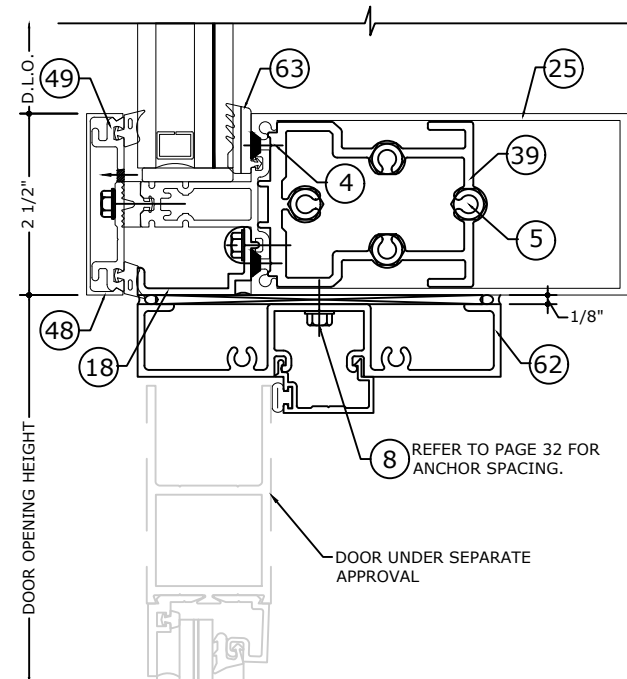
3.3 INTERMEDIATE HORIZONTAL AT CORNER MULLION DETAIL (ROLL UNDER)
SCALE: 6" = 1'-0"



3.4 INTERMEDIATE HORIZONTAL DETAIL
SCALE: 6" = 1'-0"



3.5 INTERMEDIATE HORIZONTAL AT CORNER MULLION DETAIL
SCALE: 6" = 1'-0"



3.6 DOOR HEADER DETAIL
SCALE: 6" = 1'-0"

NOTE: REFER TO SYSTEM ELEVATION ON PAGE 02 FOR LENGTH LIMITATIONS ON HORIZONTAL MULLIONS.

NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

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FLORIDA STATEWIDE APPROVAL (FSA FL#33108.1)

REMARKS	DRWN	CHKD	DATE
2020 FBC (19-20199)	JPC	AJP	08/13/20
2023 FBC UPDATE	SQ	RS	08/16/23

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SCALE: NTS UNLESS NOTED

EXPANSION HORIZONTAL CONNECTION DETAILS

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FLORIDA STATEWIDE APPROVAL (FSA FL#33108.1)

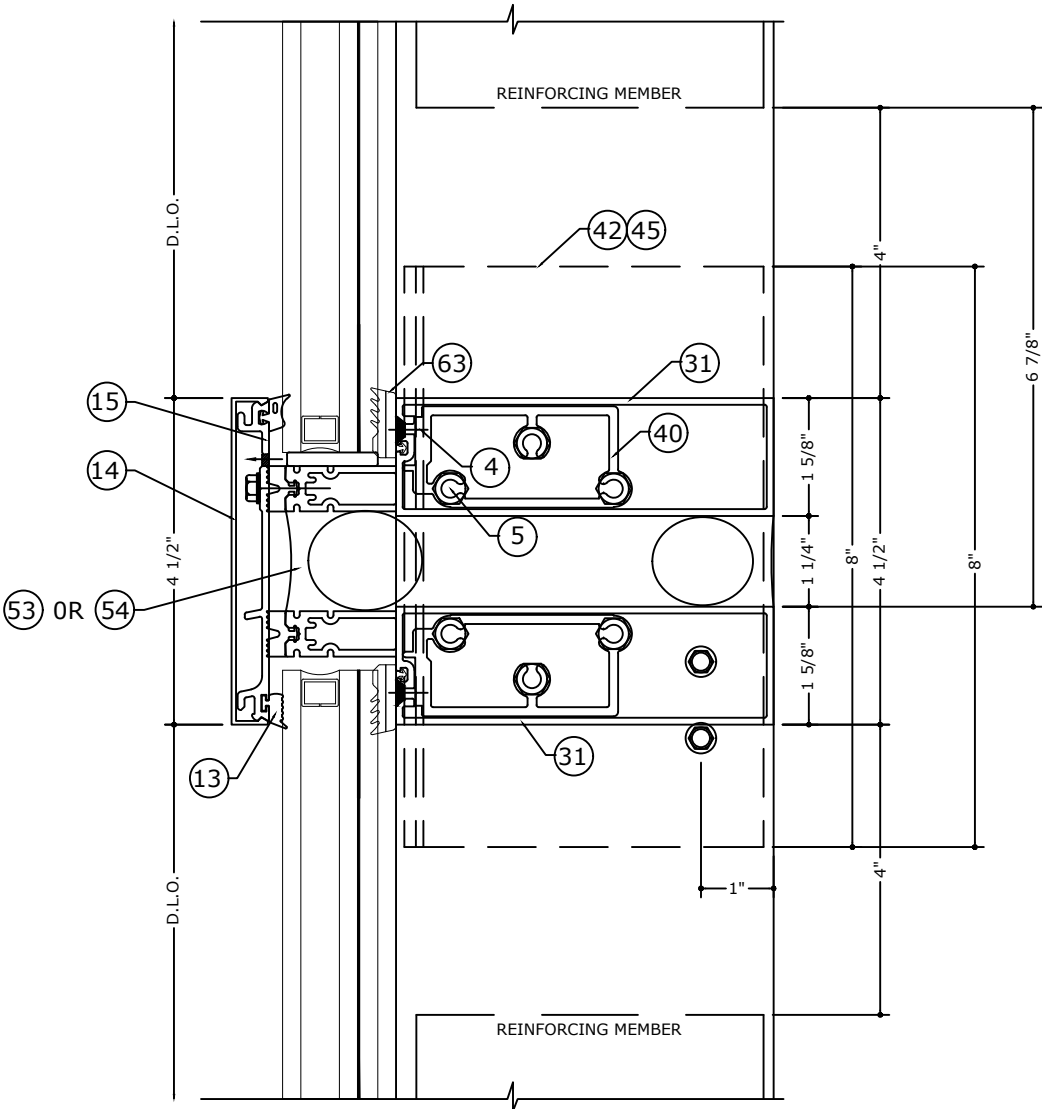
REMARKS	DRWN	CHKD	DATE
2020 FBC (19-20199)	JPC	AJP	08/13/20
2023 FBC UPDATE	SQ	RS	08/16/23

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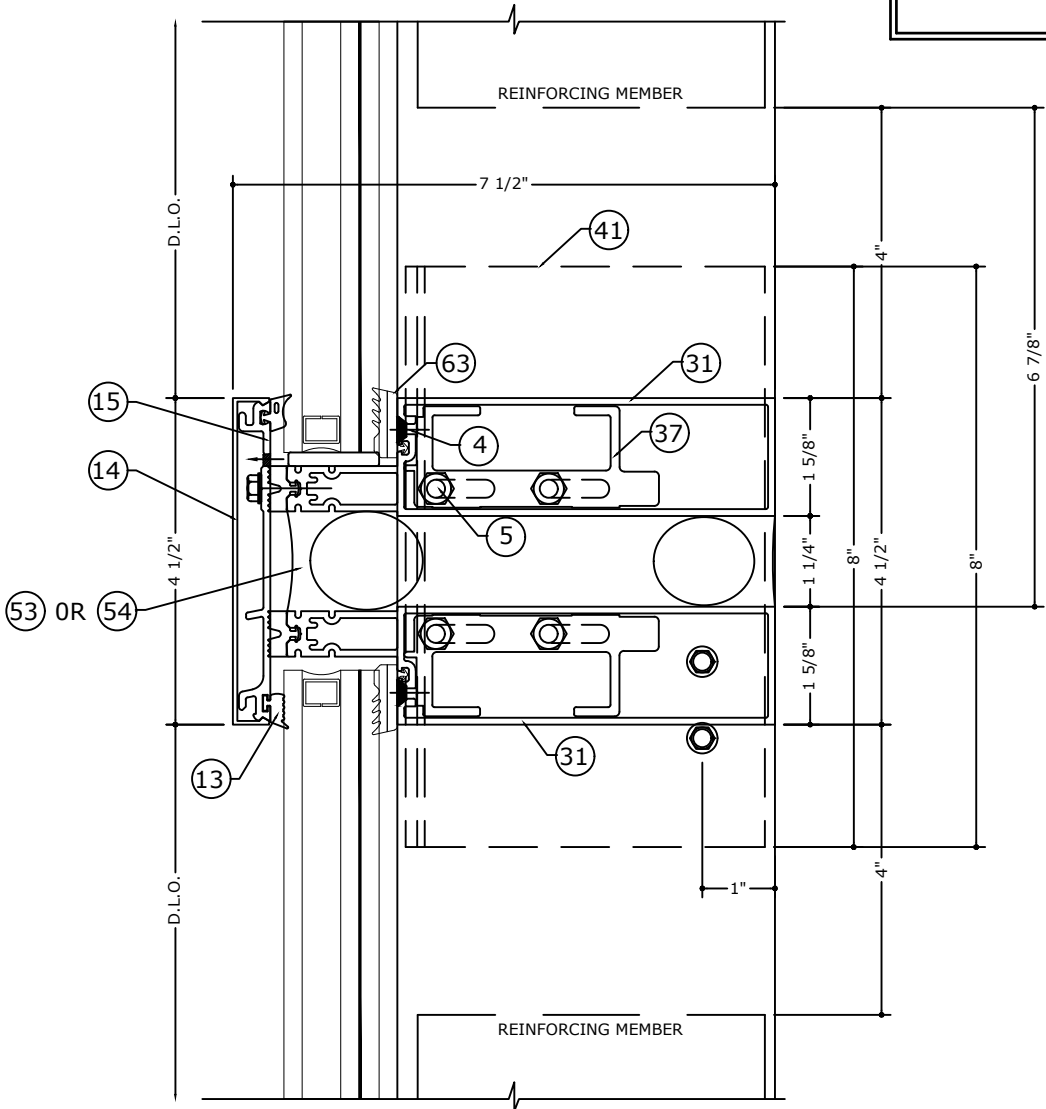
SCALE: NTS UNLESS NOTED

30

OF
41



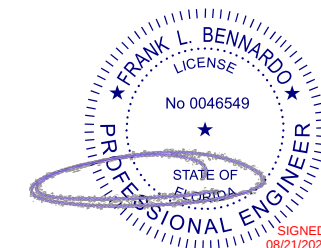
4 EXPANSION HORIZONTAL CONNECTION
DETAIL AT STANDARD OR JAMB MULLION
SCALE: 6" = 1'-0"



4.1 EXPANSION HORIZONTAL CONNECTION
DETAIL AT CORNER MULLION
SCALE: 6" = 1'-0"

NOTE: REFER TO SYSTEM ELEVATION ON PAGE 02
FOR LENGTH LIMITATIONS ON HORIZONTAL
MULLIONS.

NOTE: REFER TO SYSTEM INSTALLATION MANUAL
FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.



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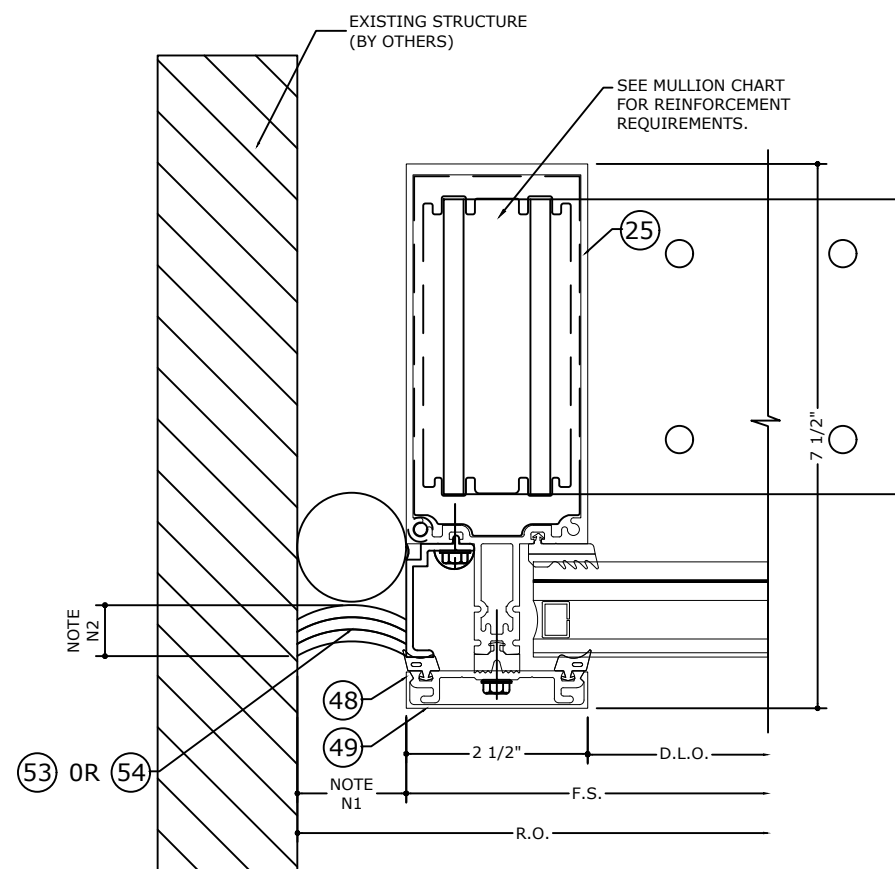
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SCALE: NTS UNLESS NOTED

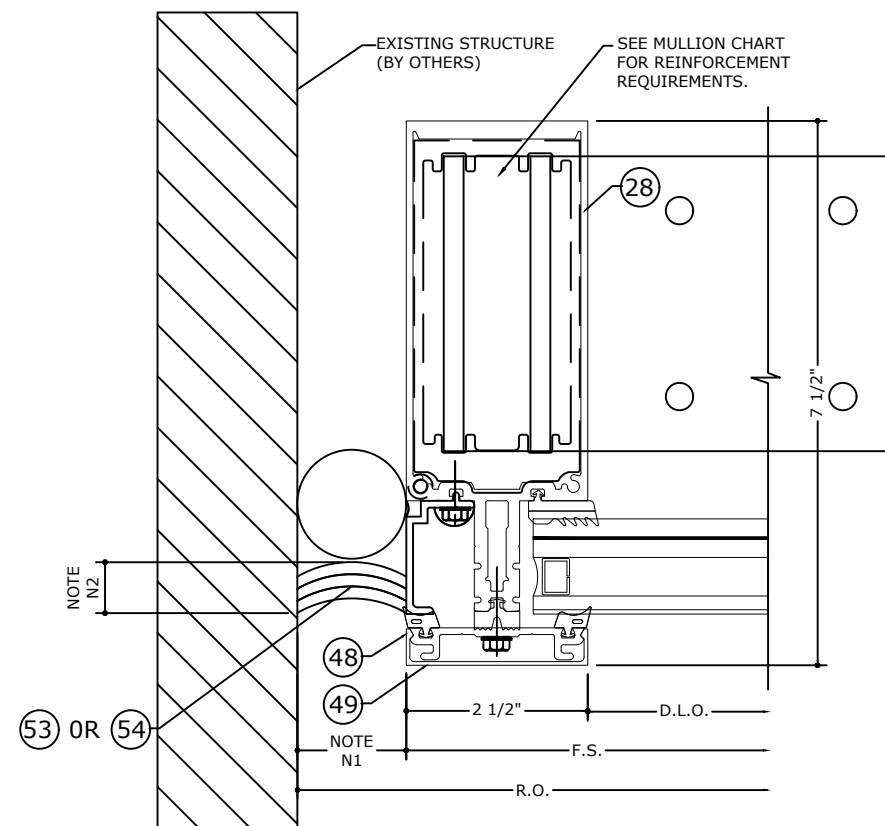
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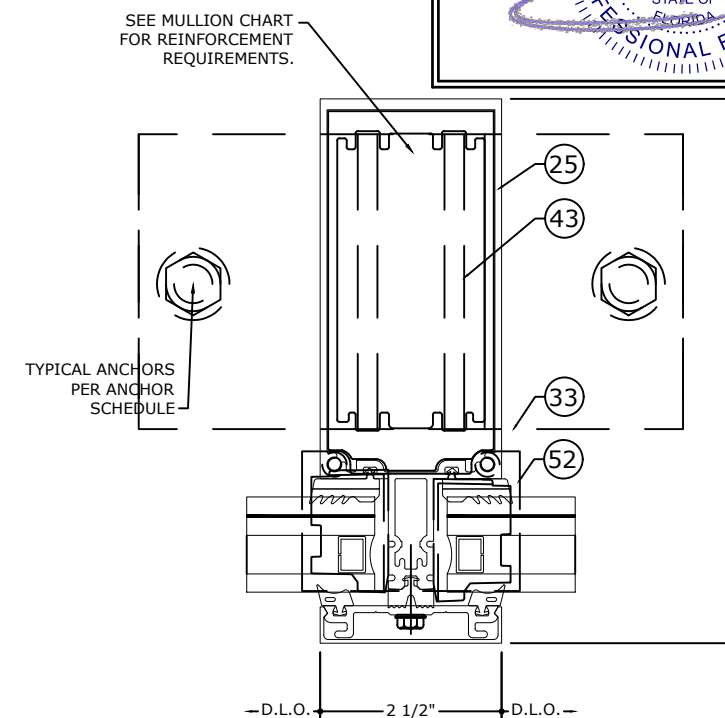
**5 STANDARD MULLION
JAMB DETAIL**

SCALE: 6" = 1'-0"

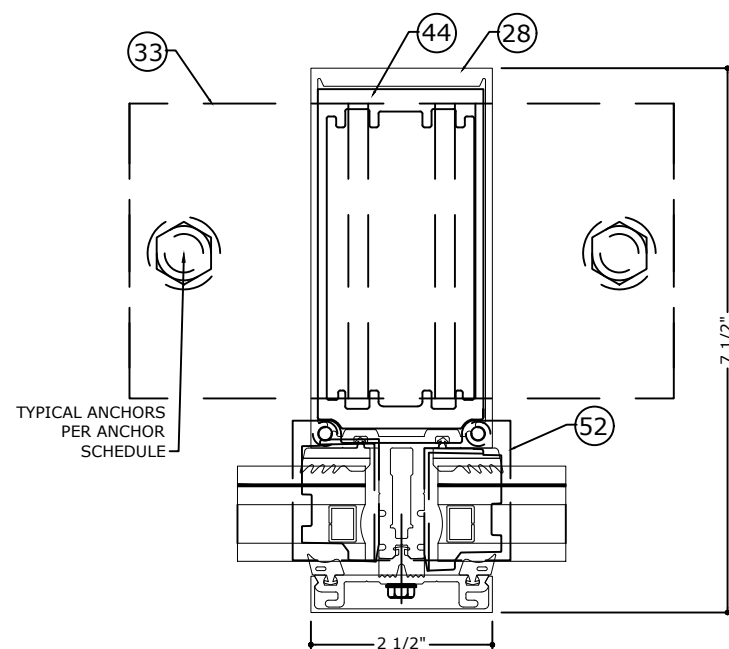
REFER TO J1, J3, J4, J5 ON
PAGE 7 & TJ1 ON PAGE 15
FOR STEEL REINFORCEMENT.



5.1 **HEAVY MULLION
JAMB DETAIL**
SCALE: 6" = 1'-0"
REFER TO J2 ON PAGE 7 FOR
STEEL REINFORCEMENT.



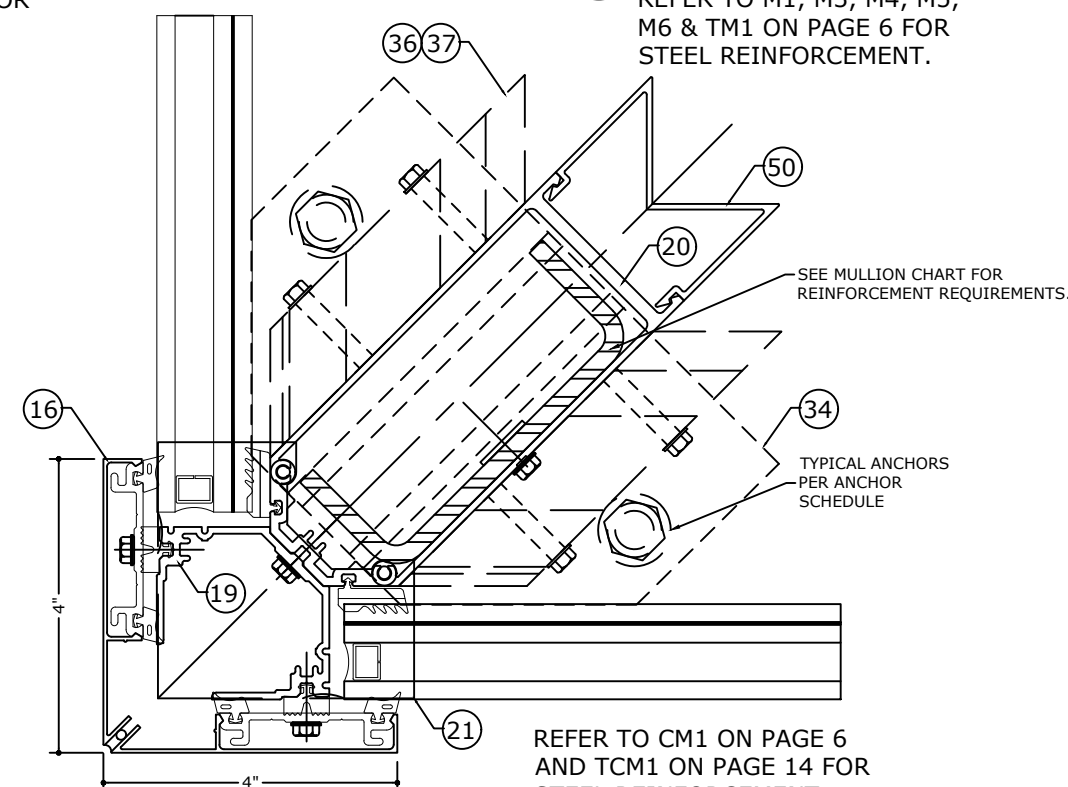
6 **STANDARD MULLION**
VERTICAL DETAIL
SCALE: 6" = 1'-0"
REFER TO M1, M3, M4, M5,
M6 & TM1 ON PAGE 6 FOR
STEEL REINFORCEMENT.



6.1 HEAVY MULLION VERTICAL DETAIL

SCALE: 6" = 1'-0"

REFER TO M2 ON PAGE 6 AND TM2 ON PAGE 14 FOR STEEL REINFORCEMENT.



7 CORNER DETAIL
SCALE: 6" = 1'-0"

REFER TO CM1 ON PAGE 6
AND TCM1 ON PAGE 14 FOR
STEEL REINFORCEMENT.

NOTE: REFER TO SYSTEM INSTALLATION MANUAL
FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

SEALANT JOINT NOTES

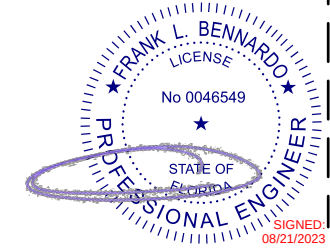
N1: 5/8" MIN. & 1 5/8" MAX. WIDE JOINT WITH SEALANT (53) OR (54).

N2: 1/4" MIN. & 3/8" MAX. DEPTH JOINT
WITH 1/4" DEPTH AT MIDWIDTH OF
JOINT WITH SEALANT (53) OR (54)

DOOR JAMB CONNECTION TO CURTAIN WALL VERTICALS

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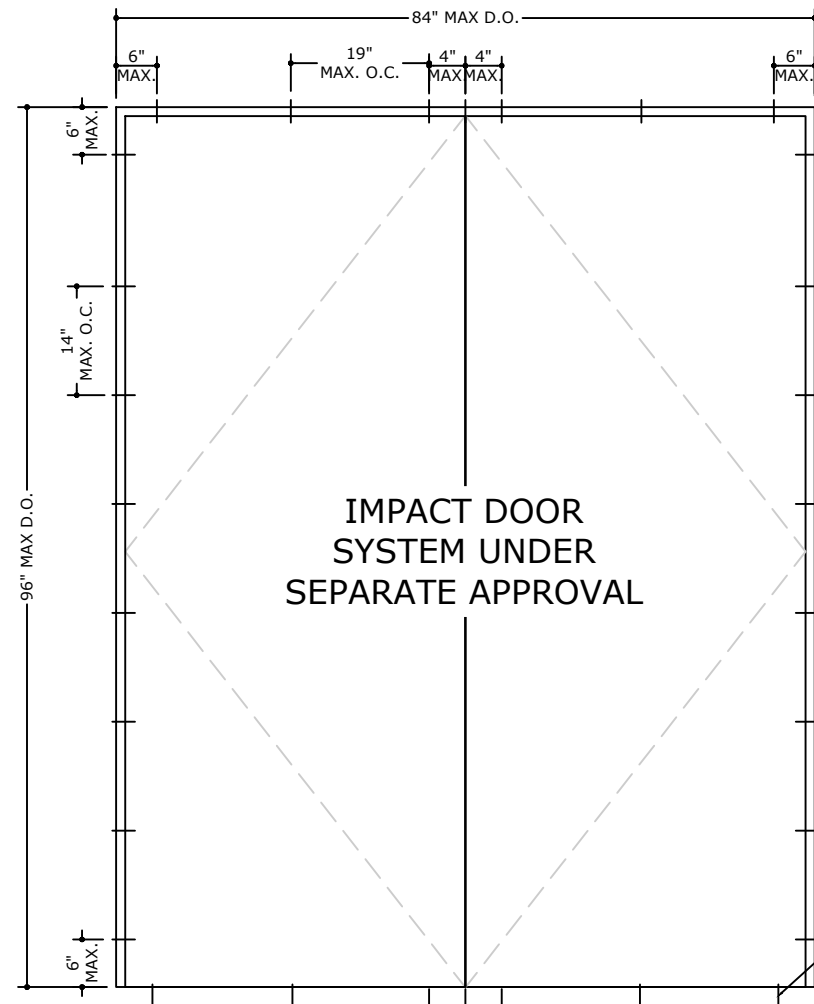
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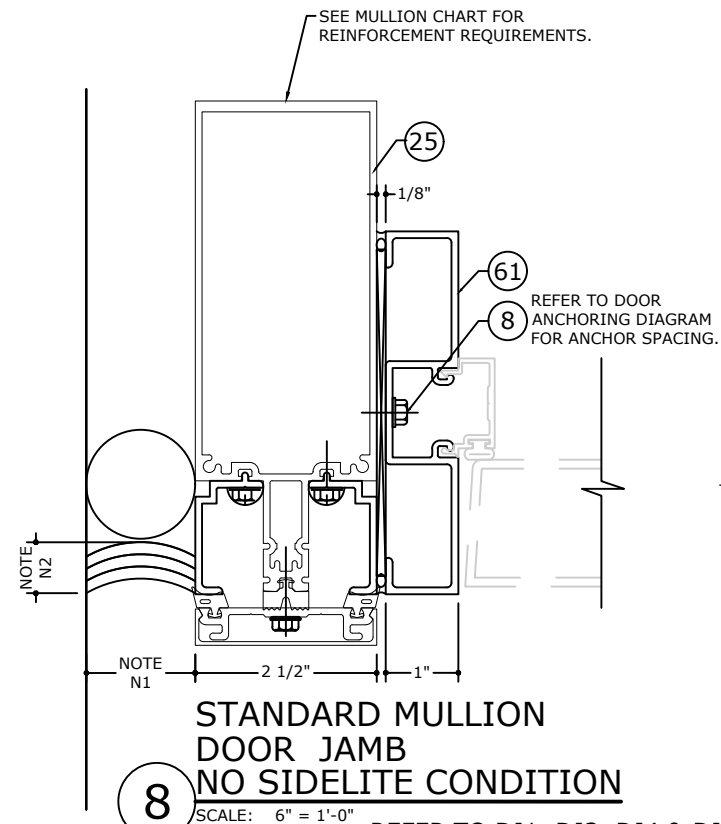


LOCATIONS FOR DOOR FRAME ATTACHMENTS
ABOVE DIMENSIONS ARE MAXIMUM SIZES TESTED

SEALANT JOINT NOTES

N1: 1/2" MIN. & 1 3/4" MAX. WIDE JOINT WITH SEALANT (28) OR (30).

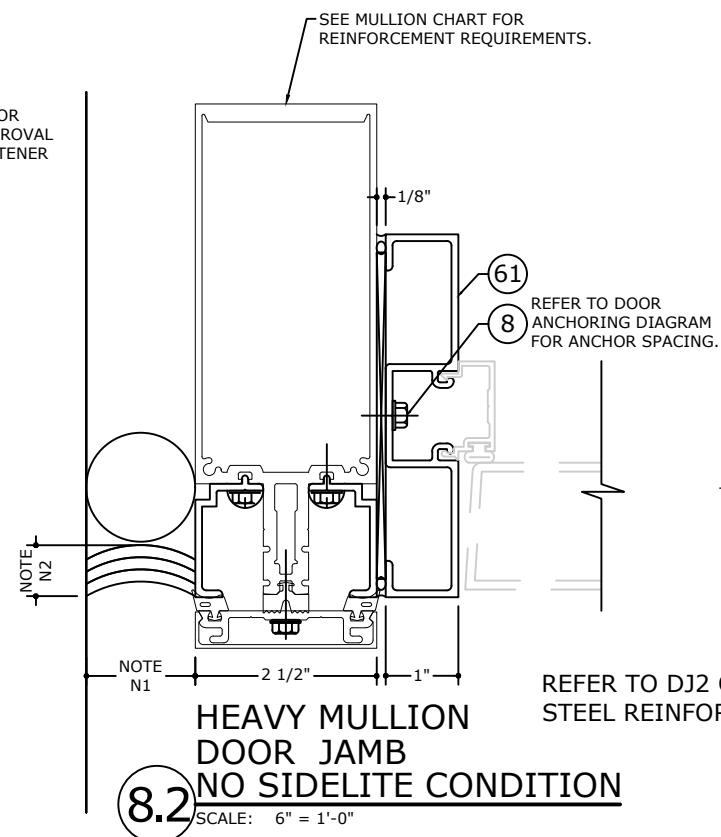
N2: 1/4" MIN. & 3/8" MAX. DEPTH JOINT
WITH 1/4" DEPTH AT MIDWIDTH OF
JOINT WITH SEALANT (28) OR (30)



STANDARD MULLION
DOOR JAMB
NO SIDELITE CONDITION

SCALE: 6" = 1'-0"

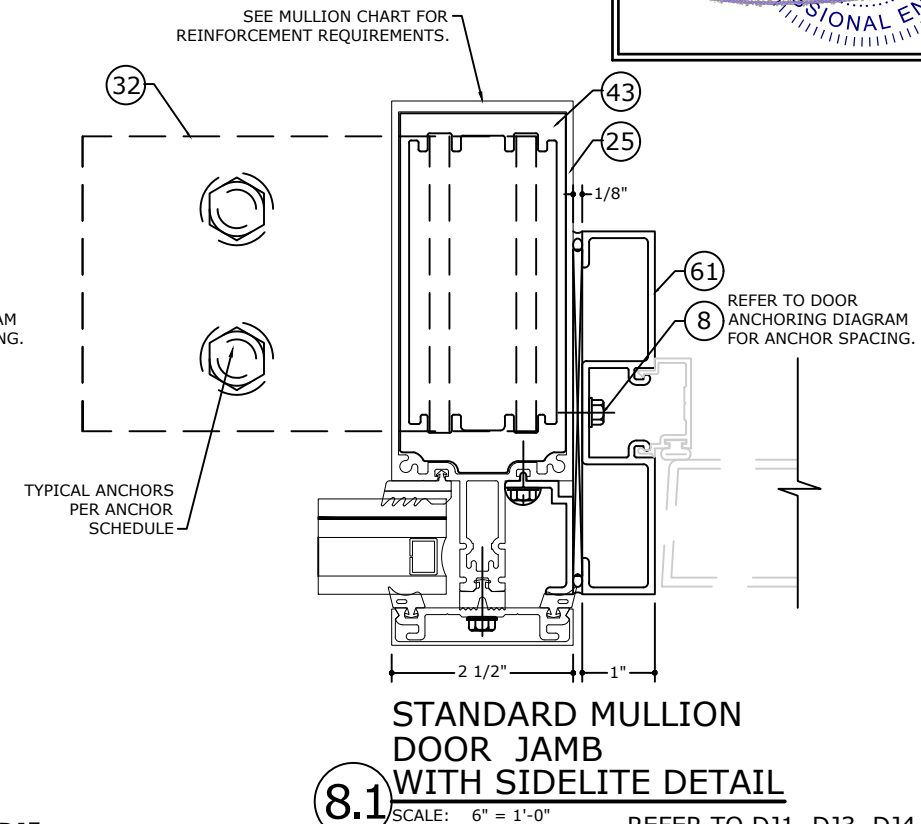
REFER TO DJ1, DJ3, DJ4 & DJ5
ON PAGE 7 AND TDJ1 ON PAGE
15 FOR STEEL REINFORCEMENT.



92 NO SIDELITE CONDITION

(0.2) SCALE: 6" = 1'-0"

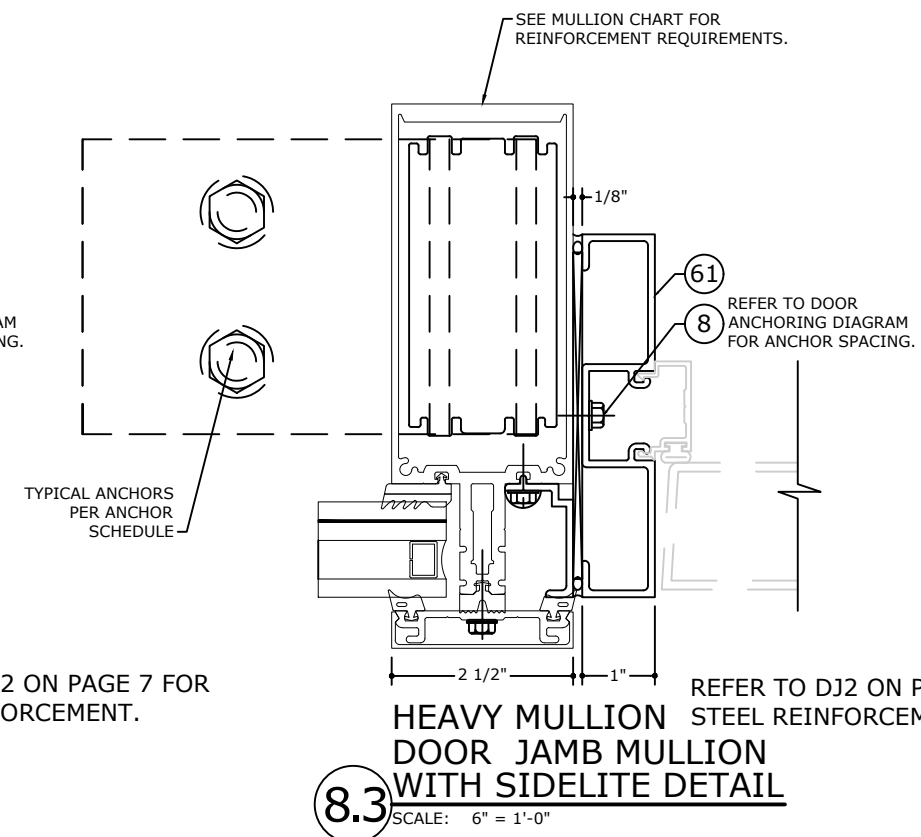
REFER TO DJ2 ON PAGE 7 FOR
STEEL REINFORCEMENT.



STANDARD MULLION DOOR JAMB WITH SIDELITE DETAIL

(8.1) SCALE: 6" = 1'-0"

REFER TO DJ1, DJ3, DJ4 & DJ5
ON PAGE 7 AND TDJ1 ON PAGE
15 FOR STEEL REINFORCEMENT.



03 DOOR SAVED POSITION
WITH SIDELITE DETAIL

(0.5) SCALE: 6" = 1'-0"

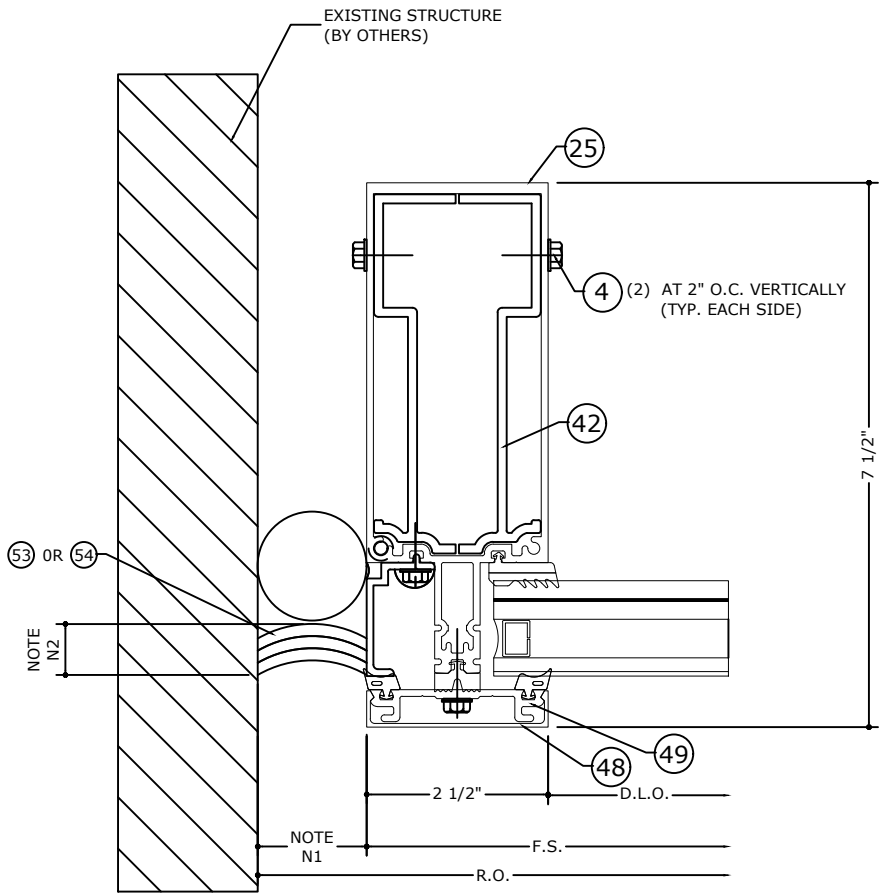
REFER TO DJ2 ON PAGE 7 FOR
STEEL REINFORCEMENT.

JAMB AND STANDARD MULLION SPLICE DETAILS
AT TWIN SPAN (PLAN)

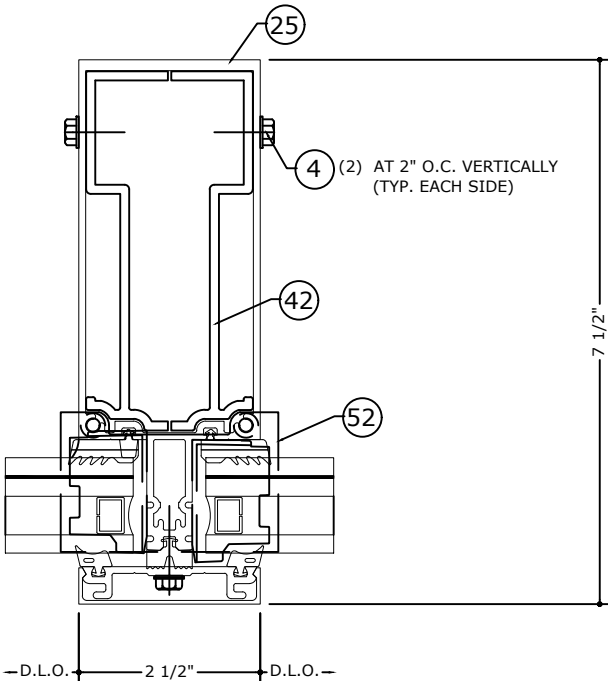
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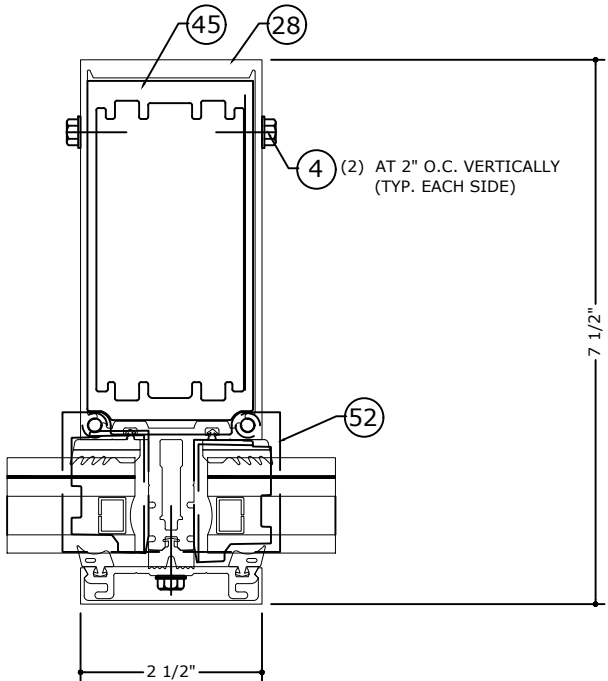
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JAMB MULLION SPLICE DETAIL
SCALE: 6" = 1'-0"



STANDARD MULLION SPLICE DETAIL
SCALE: 6" = 1'-0"



HEAVY MULLION SPLICE DETAIL
SCALE: 6" = 1'-0"

SEALANT JOINT NOTES

N1: 5/8" MIN. & 1 5/8" MAX. WIDE JOINT
WITH SEALANT (53) OR (54).

N2: 1/4" MIN. & 3/8" MAX. DEPTH JOINT
WITH 1/4" DEPTH AT MIDWIDTH OF
JOINT WITH SEALANT (53) OR (54).

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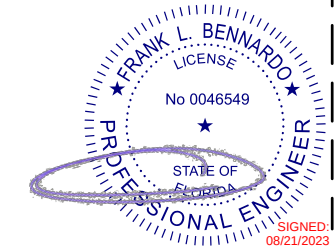
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ZONE PLUG INSTALLATION

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AUGUST 21, 2023



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06/10/2023	07/10/2023	08/10/2023	09/10/2023	10/10/2023	11/10/2023	12/10/2023	13/10/2023	14/10/2023	15/10/2023	16/10/2023	17/10/2023	18/10/2023	19/10/2023	20/10/2023	21/10/2023	22/10/2023	23/10/2023	24/10/2023	25/10/2023	26/10/2023	27/10/2023	28/10/2023	29/10/2023	30/10/2023	31/10/2023	01/11/2023	02/11/2023	03/11/2023	04/11/2023	05/11/2023	06/11/2023	07/11/2023	08/11/2023	09/11/2023	10/11/2023	11/11/2023	12/11/2023	13/11/2023	14/11/2023	15/11/2023	16/11/2023	17/11/2023	18/11/2023	19/11/2023	20/11/2023	21/11/2023	22/11/2023	23/11/2023	24/11/2023	25/11/2023	26/11/2023	27/11/2023	28/11/2023	29/11/2023	30/11/2023	01/12/2023	02/12/2023	03/12/2023	04/12/2023	05/12/2023	06/12/2023	07/12/2023	08/12/2023	09/12/2023	10/12/2023	11/12/2023	12/12/2023	13/12/2023	14/12/2023	15/12/2023	16/12/2023	17/12/2023	18/12/2023	19/12/2023	20/12/2023	21/12/2023	22/12/2023	23/12/2023	24/12/2023	25/12/2023	26/12/2023	27/12/2023	28/12/2023	29/12/2023	30/12/2023	31/12/2023	01/01/2024	02/01/2024	03/01/2024	04/01/2024	05/01/2024	06/01/2024	07/01/2024	08/01/2024	09/01/2024	10/01/2024	11/01/2024	12/01/2024	13/01/2024	14/01/2024	15/01/2024	16/01/2024	17/01/2024	18/01/2024	19/01/2024	20/01/2024	21/01/2024	22/01/2024	23/01/2024	24/01/2024	25/01/2024	26/01/2024	27/01/2024	28/01/2024	29/01/2024	30/01/2024	31/01/2024	01/02/2024	02/02/2024	03/02/2024	04/02/2024	05/02/2024	06/02/2024	07/02/2024	08/02/2024	09/02/2024	10/02/2024	11/02/2024	12/02/2024	13/02/2024	14/02/2024	15/02/2024	16/02/2024	17/02/2024	18/02/2024	19/02/2024	20/02/2024	21/02/2024	22/02/2024	23/02/2024	24/02/2024	25/02/2024	26/02/2024	27/02/2024	28/02/2024	29/02/2024	01/03/2024	02/03/2024	03/03/2024	04/03/2024	05/03/2024	06/03/2024	07/03/2024	08/03/2024	09/03/2024	10/03/2024	11/03/2024	12/03/2024	13/03/2024	14/03/2024	15/03/2024	16/03/2024	17/03/2024	18/03/2024	19/03/2024	20/03/2024	21/03/2024	22/03/2024	23/03/2024	24/03/2024	25/03/2024	26/03/2024	27/03/2024	28/03/2024	29/03/2024	30/03/2024	31/03/2024	01/04/2024	02/04/2024	03/04/2024	04/04/2024	05/04/2024	06/04/2024	07/04/2024	08/04/2024	09/04/2024	10/04/2024	11/04/2024	12/04/2024	13/04/2024	14/04/2024	15/04/2024	16/04/2024	17/04/2024	18/04/2024	19/04/2024	20/04/2024	21/04/2024	22/04/2024	23/04/2024	24/04/2024	25/04/2024	26/04/2024	27/04/2024	28/04/2024	29/04/2024	30/04/2024	01/05/2024	02/05/2024	03/05/2024	04/05/2024	05/05/2024	06/05/2024	07/05/2024	08/05/2024	09/05/2024	10/05/2024	11/05/2024	12/05/2024	13/05/2024	14/05/2024	15/05/2024	16/05/2024	17/05/2024	18/05/2024	19/05/2024	20/05/2024	21/05/2024	22/05/2024	23/05/2024	24/05/2024	25/05/2024	26/05/2024	27/05/2024	28/05/2024	29/05/2024	30/05/2024	31/05/2024	01/06/2024	02/06/2024	03/06/2024	04/06/2024	05/06/2024	06/06/2024	07/06/2024	08/06/2024	09/06/2024	10/06/2024	11/06/2024	12/06/2024	13/06/2024	14/06/2024	15/06/2024	16/06/2024	17/06/2024	18/06/2024	19/06/2024	20/06/2024	21/06/2024	22/06/2024	23/06/2024	24/06/2024	25/06/2024	26/06/2024	27/06/2024	28/06/2024	29/06/2024	30/06/2024	01/07/2024	02/07/2024	03/07/2024	04
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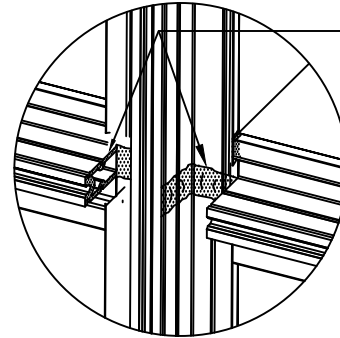
OF 11

24 |

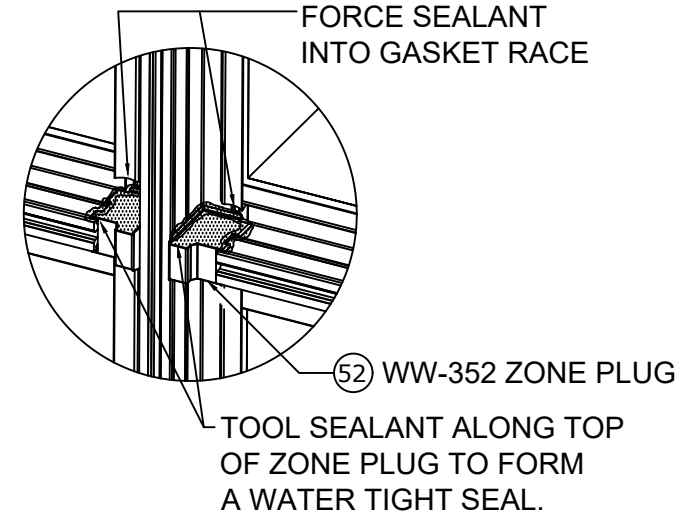
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STEP 1

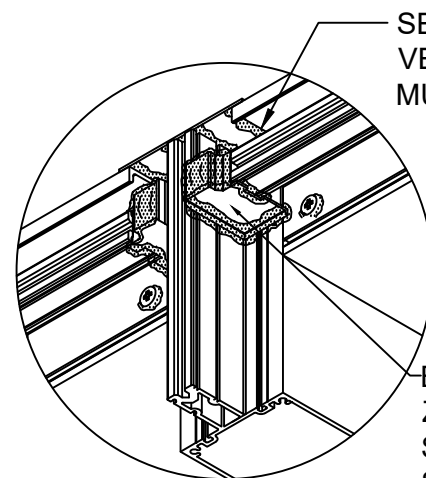


STEP 2



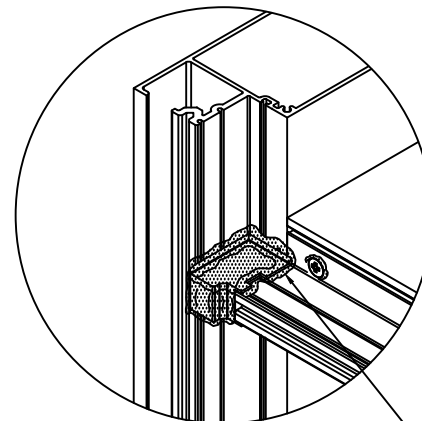
—(52) WW-352 ZONE PLUG

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



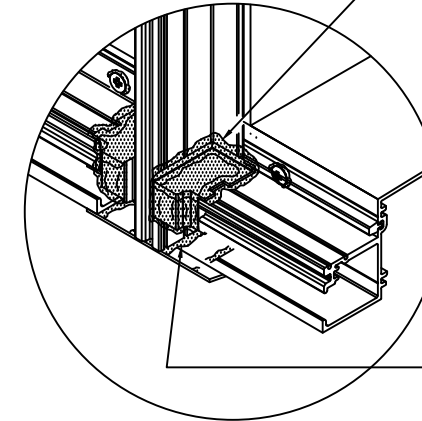
BOTTOM SIDE OF
 ZONE PLUG SHOWN.
 SEAL TOP
 SIDE SIMILAR.

ZONE PLUG AT HEAD



SEAL JAMB & SILL
ZONE PLUGS SAME
AS SHOWN AT LEFT

ZONE PLUG AT JAMB



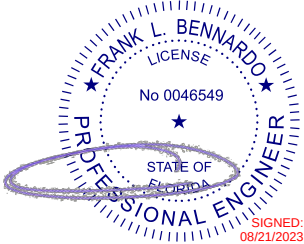
SEAL JAMB & SILL
/ ZONE PLUGS SAME
AS SHOWN AT LEFT

- SEAL BETWEEN SILL, VERTICAL & MULLION CAP

ZONE PLUG AT SILL

PRESSURE PLATE AND FACE CAP INSTALLATION

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PE# 0046549 CA# 9885



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REMARKS	DRWN		CHKD		DATE	
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2020 FBC (19-20199)						
2023 FBC UPDATE						

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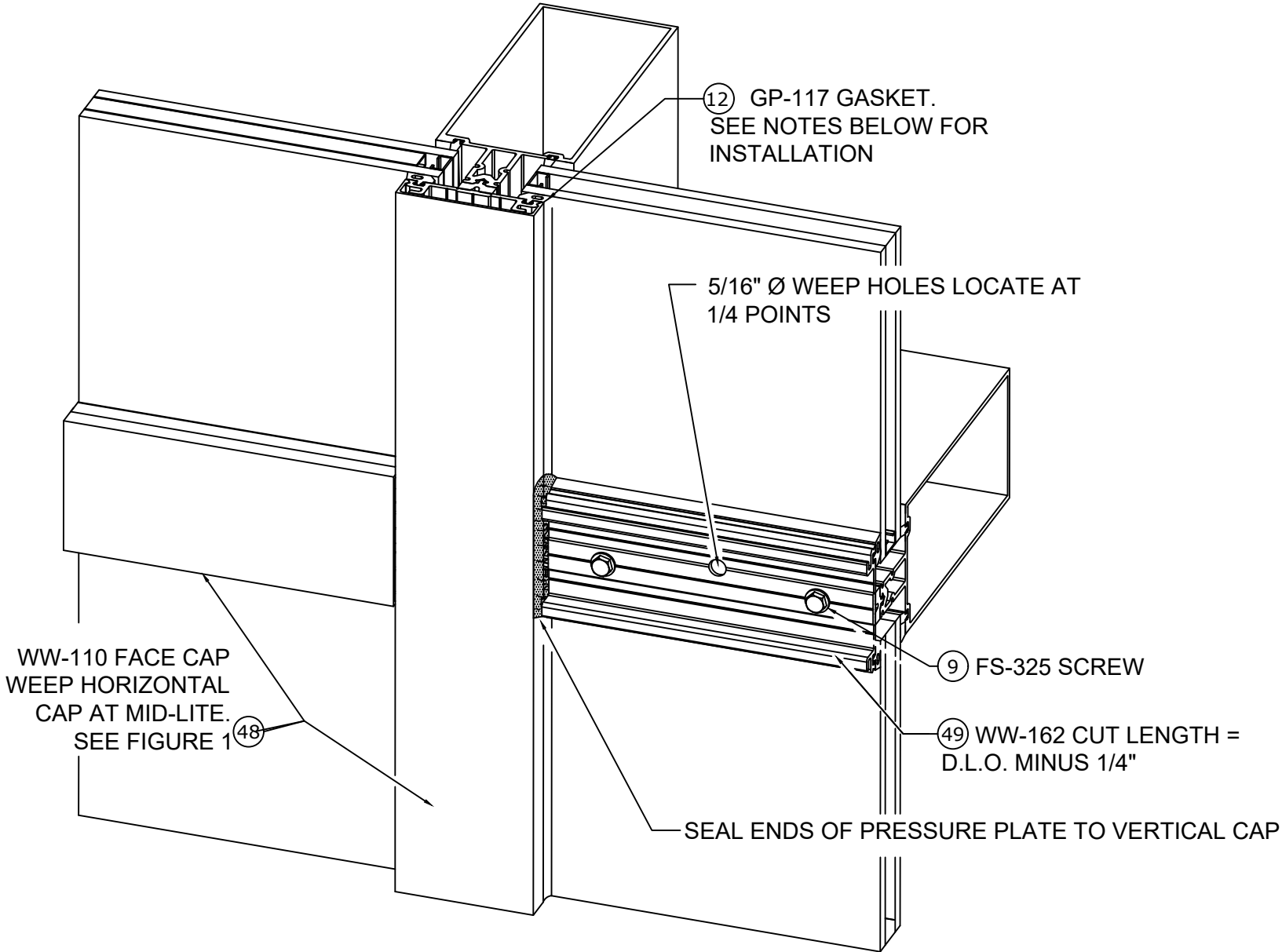
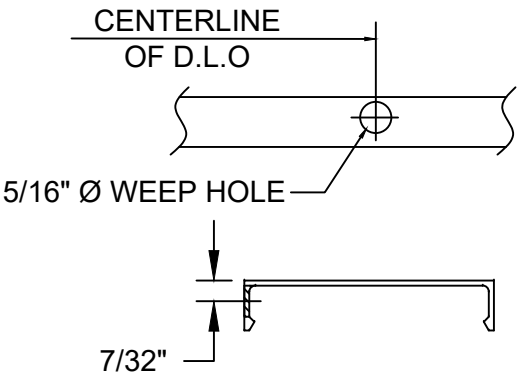
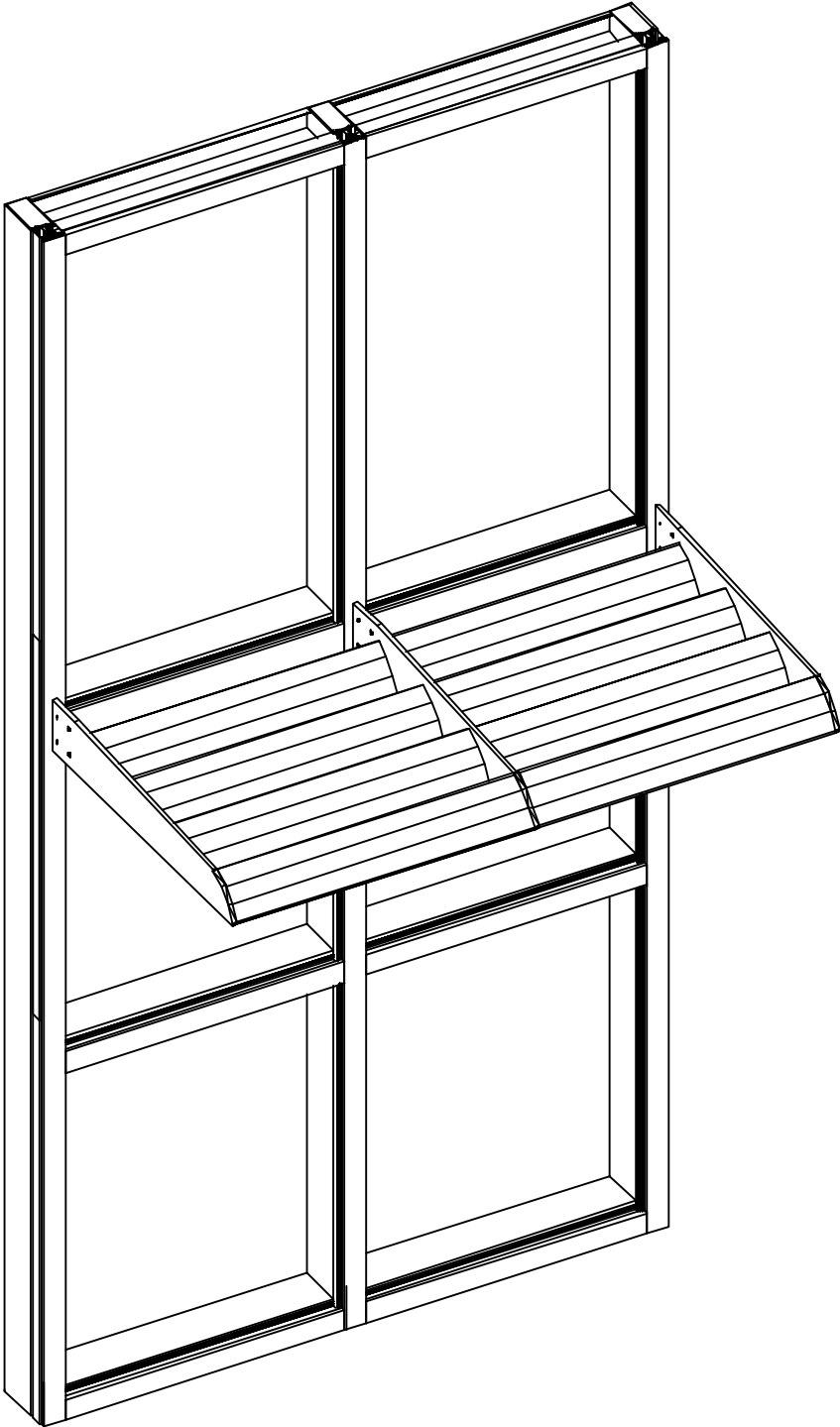


FIGURE 1
GLAZING INSTRUCTIONS
HORIZONTAL FACE CAP FABRICATION



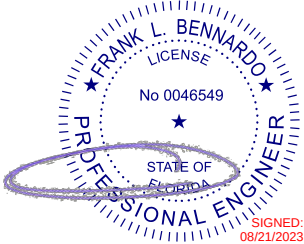
SUNSHADE OPTION



NOTE: OPTIONAL SUNSHADES IN NON-HVHZ
CONDITIONS CAN BE USED BASED ON SITE
SPECIFIC ENGINEERING.

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	JPC	AJP	SQ	RS	08/13/20	08/16/23
2020 FBC (19-20199)						
2023 FBC UPDATE						

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RelianceTM StormMax[®] CURTAIN WALL SYSTEM COMPONENTS

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PHONE: (972) 551-6100

RELANCE[™] STORMMAX[®] DRY GLAZED
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#33108.1)

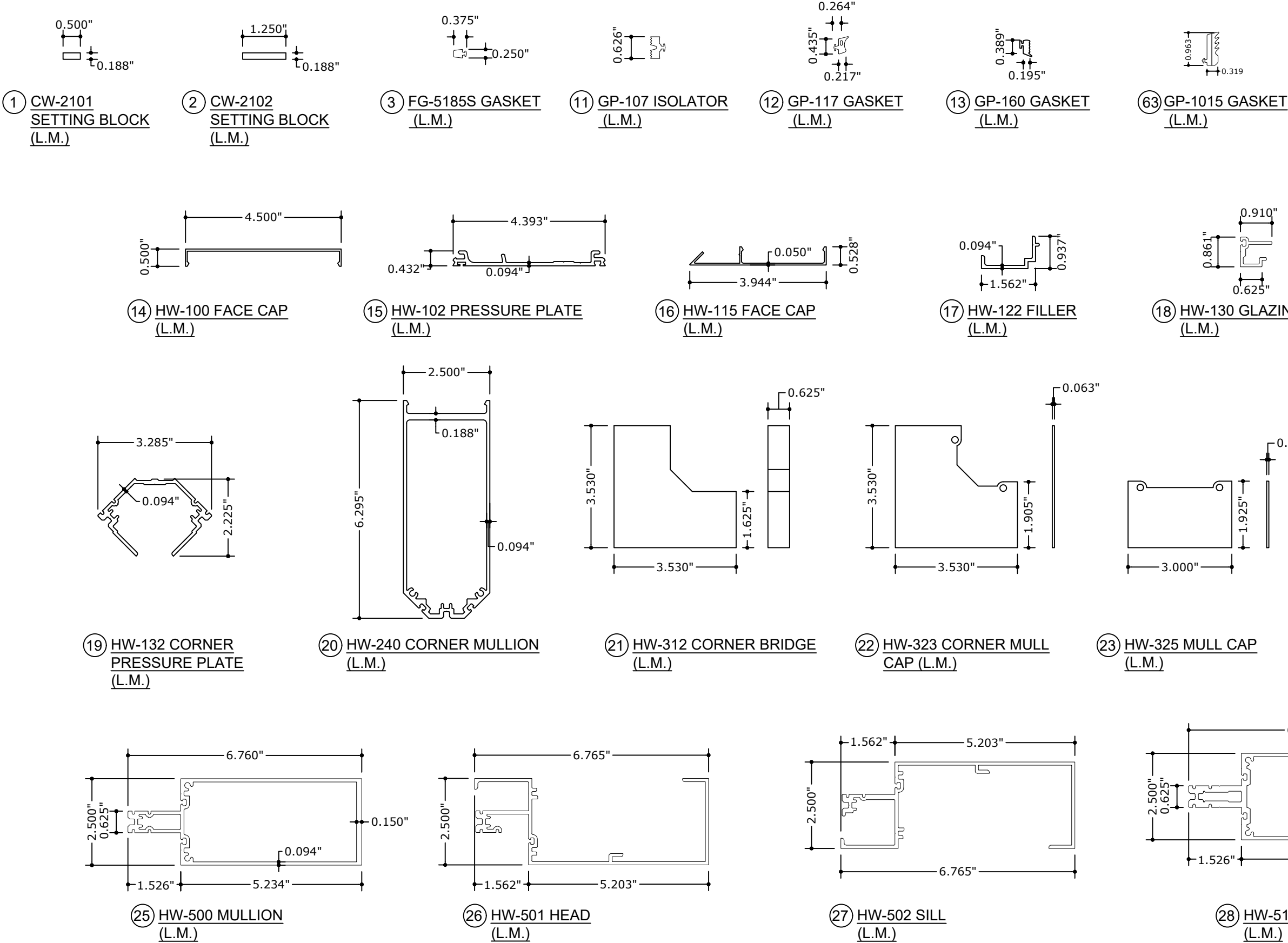
REMARKS	DRWN	CHKD	DATE
2020 FBC (19-20199)	JPC	AJP	08/13/20
2023 FBC UPDATE	SQ	RS	08/16/23

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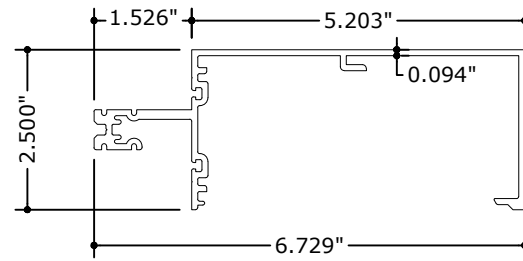
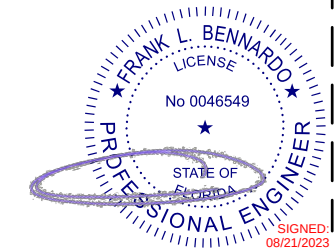
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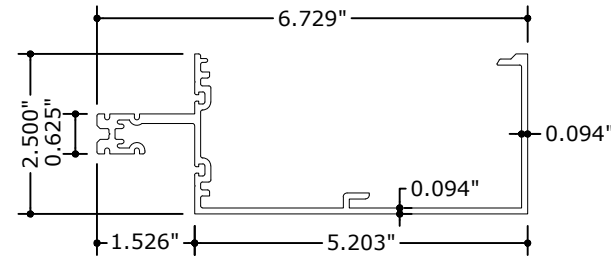
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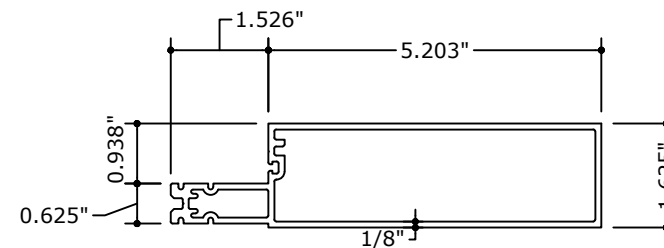
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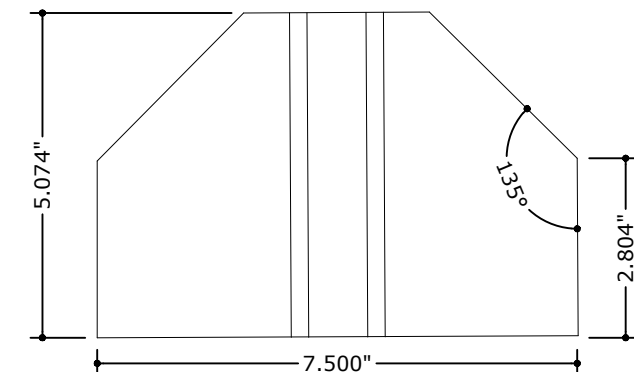
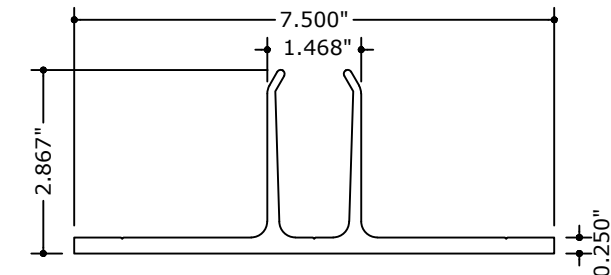
②9 HW-532 ROLL OVER HORIZ.
(L.M.)



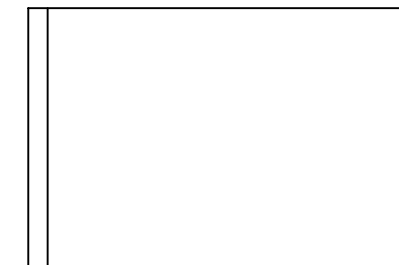
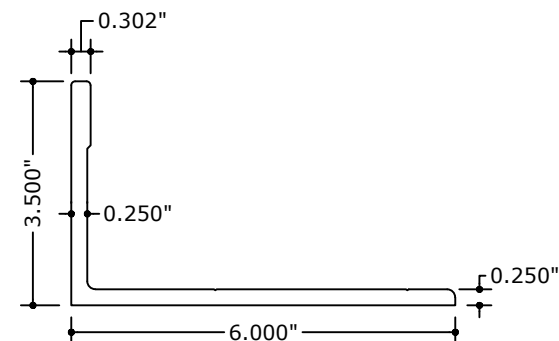
③① HW-533 ROLL UNDER HORIZ.
(L.M.)



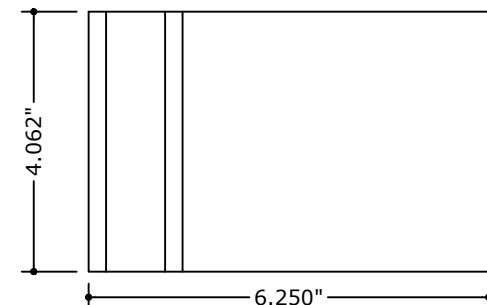
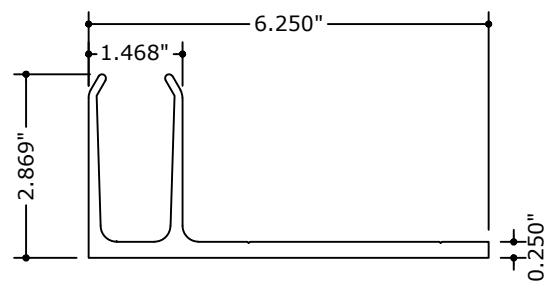
③1 HW-536 HORIZONTAL
(L.M.)



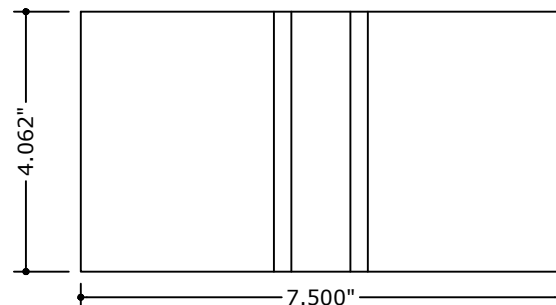
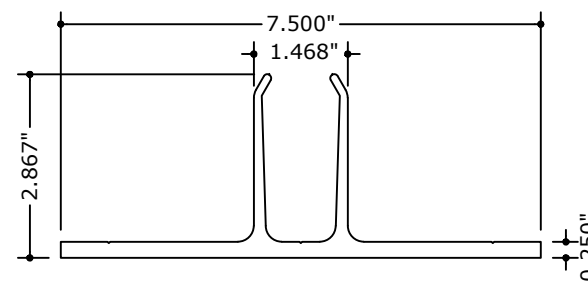
7.1500
 (65) HW-105-03 "T" ANCHOR
(CORNER MULLION)
(L.M.)



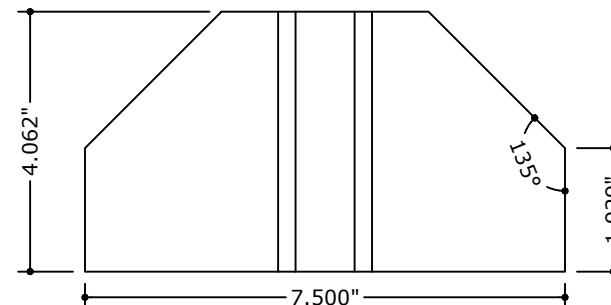
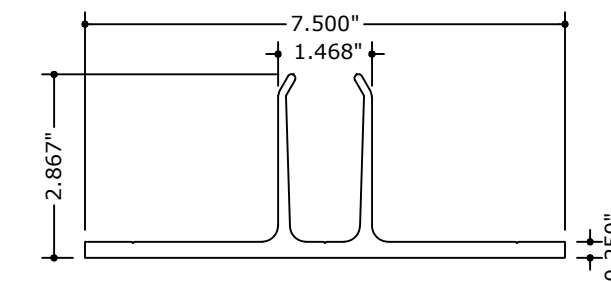
35 HW-174-01 "L" ANCHOR
(JAMB & STD. MULLION)
(L.M.)



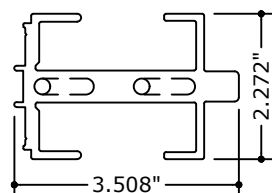
③2 HW-103-01 "F" ANCHOR
(JAMB MULLION)
(L.M.)



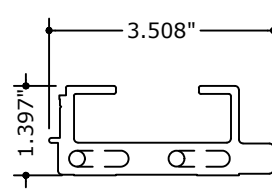
③③ HW-105-01 "T" ANCHOR
(STD. MULLION & TOP OF
DOOR JAMB MULLION)
(L.M.)



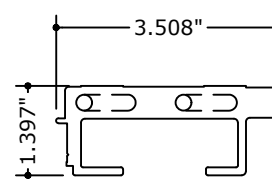
③④ HW-105-02 "T" ANCHOR
(CORNER MULLION)
(L.M.)



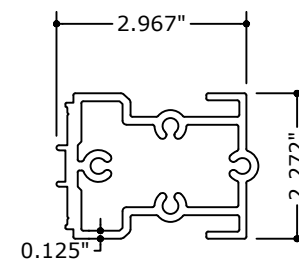
(36) HW-180-01 CORNER
SHEAR BLOCK
(L.M.)



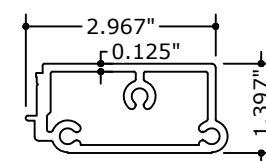
(37) HW-180-02 CORNER
SHEAR BLOCK
(L.M.)



(38) HW-180-03 CORNER
SHEAR BLOCK
(L.M.)



(39) HW-183-01 SHEAR BLOCK
(L.M.)



④ HW-184-01 SHEAR BLOCK
(L.M.)

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FLORIDA STATEWIDE APPROVAL (FSA FL#33108.1)

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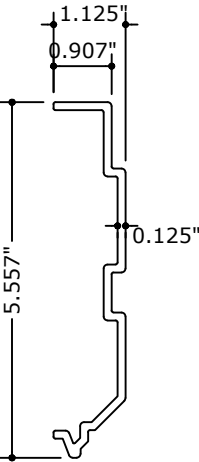
38 OF 41

RelianceTM StormMax[®] CURTAIN WALL SYSTEM COMPONENTS

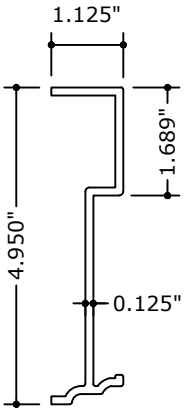
FRANK BENNARDO, PE
PE# 0046549 CA# 9885

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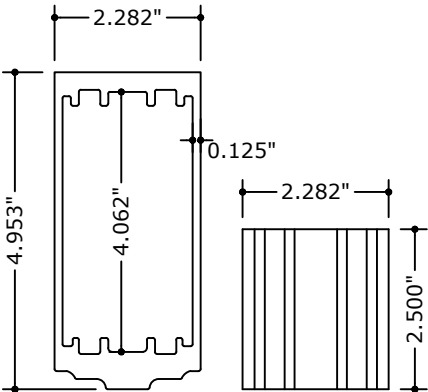
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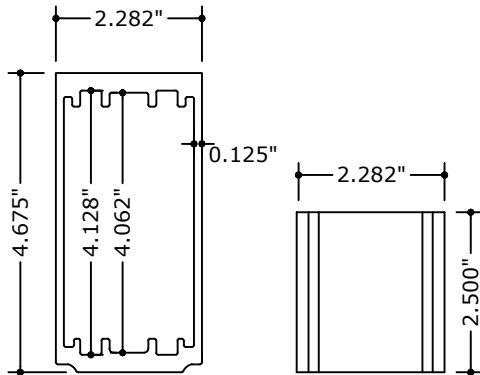
41 HW-191-01 CORNER SPLICE
(L.M.)



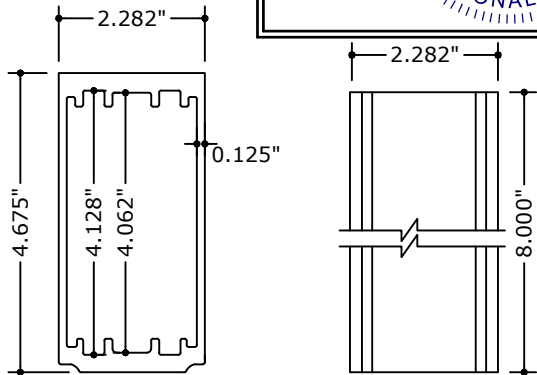
42 HW-194-01 MULLIUON SPLICE
(L.M.)



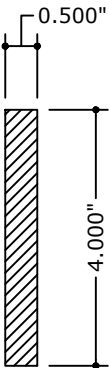
43 HW-200-01 STANDARD
ANCHOR SLEEVE
(L.M.)



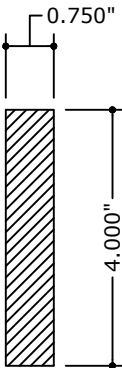
44 HW-201-01 HEAVY
ANCHOR SLEEVE
(L.M.)



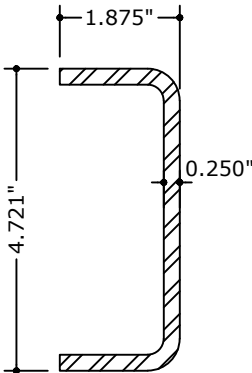
45 HW-201-02 HEAVY
MULLION HARD SPLICE
(L.M.)



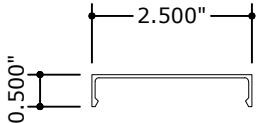
46 RS-15 STEEL
REINFORCEMENT
(L.M.)



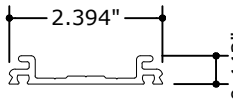
46A RS-17 STEEL
REINFORCEMENT
(L.M.)



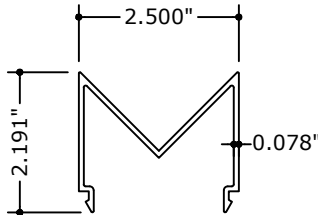
47 RS-25 STEEL
REINFORCEMENT
(L.M.)



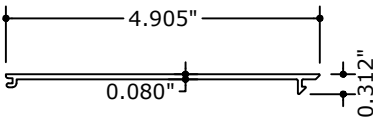
48 HW-110 FACE CAP
(L.M.)



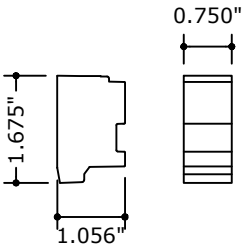
49 HW-162 PRESSURE PLATE
(L.M.)



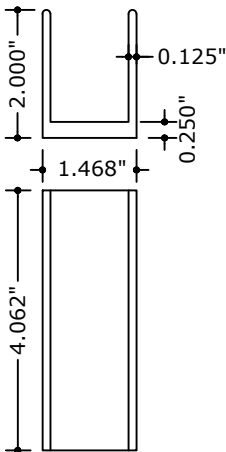
50 HW-224 COVER
(L.M.)



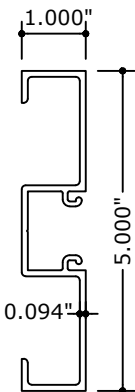
51 HW-237 FILLER (L.M.)



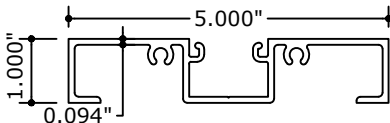
52 WW-352 ZONE PLUG
(L.M.)



60 HW-108-01 "U" ANCHOR
(L.M.)



61 D-226 DOOR JAMB
(L.M. & S.M.)



62 D-231 DOOR HEADER
(L.M. & S.M.)

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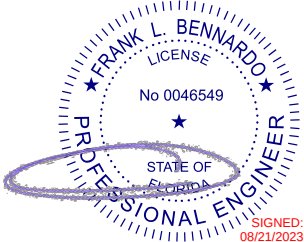
REMARKS	DRWN	CHKD	DATE
2020 FBC (19-20199)	JPC	AJP	08/13/20
2023 FBC UPDATE	SQ	RS	08/16/23

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BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL
1	CW-2101	SETTING BLOCK	.50x .188x 4.00	EPDM 80 DUROMETER
2	CW-2102	SETTING BLOCK	1.250x .188x 4.00	EPDM 80 DUROMETER
3	FG-5185S	INTERIOR SPACER GASKET	.375x 0.25	SILICONE 70 DURO
4	FS-7	HORIZ. TO SHEAR BLOCK FASTENER #10x 3/4" PFH	#10x 3/4" PFH	STEEL
5	FS-9	SHEAR BLOCK ASSEMBLY SCREW #14x 1 1/2" HH	#14x 1 1/2" HH	STEEL
6	FS-259	JAMB CAP PLATE FASTENER M4x16mm HEADED HELICAL KNURLED PIN	1/4-20x 1" PFH TYPE F	STEEL
7	FS-320	END CAP ATTACHMENT FASTENER	M4 X 16MM HEADED HELICAL KNURLED PIN	STEEL
8	FS-322	POCKET FILLER ATTACHMENT #12-14x 1" HH	1"	STEEL
9	FS-325	PRESSURE PLATE SCREW	#12-24 X 1-11/32 HWH SELF DRILLING SCREW	STEEL
N/A	NOT USED	-	-	-
11	GP-107	ISOLATOR GASKET	.264x .626	EPDM 70 DUROMETER
12	GP-117	EXTERIOR GASKET	.217x .438	EPDM 60 DUROMETER
13	GP-160	EXTERIOR GASKET AT EXP HORIZ.	.195x .380	EPDM 85 DUROMETER
14	HW-100	FACE CAP	4.50x .50x .062	6063-T5 ALUMINUM
15	HW-102	PRESSURE PLATE	4.394x .432x .094	6063-T6 ALUMINUM
16	HW-115	FACE CAP	3.94x .528x .050	6063-T5 ALUMINUM
17	HW-122	POCKET FILLER	.861x .910x .080	6063-T5 ALUMINUM
18	HW-130	GLAZING ADAPTOR	3.276x 2.225x .094	6063-T5 ALUMINUM
19	HW-132	CORNER PRESSURE PLATE	6.295x 2.50x .094	6063-T6 ALUMINUM
20	HW-240	CORNER MULLION	-	6063-T6 ALUMINUM
21	HW-312	CORNER BRIDGE	3.50x 1.625x .625	55 SHORE "00" DUROMETER, CLOSED CELL
22	HW-323	CORNER MULL CAP	3.00x 1.925x .063	5005-H32 ALUMINUM
23	HW-325	MULL CAP	3.00x 1.925x .063	5005-H32 ALUMINUM
24	HW-338	JAMB CAP	2.75x 1.925x .063	5005-H32 ALUMINUM
25	HW-500	MULLION	2.50x 5.00x .094	6063-T6 ALUMINUM
26	HW-501	HEAD	2.50x 5.203x .094	6063-T6 ALUMINUM
27	HW-502	SILL	2.50x 5.203x .094	6063-T6 ALUMINUM
28	HW-510	HEAVY MULLION	2.50x 5.234x .094	6063-T6 ALUMINUM
29	HW-532	ROLL OVER HORIZONTAL	2.50x 5.203x .094	6063-T6 ALUMINUM
30	HW-533	ROLL UNDER HORIZONTAL	2.50x 5.203x .094	6063-T6 ALUMINUM
31	HW-536	EXPANSION HORIZONTAL	1.625x 6.729x .094	6063-T6 ALUMINUM
32	HW-103-01	"F" ANCHOR (JAMB MULLION)	6.25x 2.869x 0.25x 4.062	6063-T6 ALUMINUM
33	HW-105-01	"T" ANCHOR (STD. & DOOR JAMB MULLION)	7.50x 2.869x 0.25x 4.062	6063-T6 ALUMINUM
34	HW-105-02	"T" ANCHOR (CORNER MULLION)	7.50x 2.869x 0.25x 4.061	6063-T6 ALUMINUM
35	HW-174-01	"L" ANCHOR (STD. & JAMB MULLION)	3.50x 6.0x 0.25x 4.062	6063-T6 ALUMINUM
36	HW-180-01	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM
37	HW-180-02	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM
38	HW-180-03	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM
39	HW-183-01	SHEAR BLOCK	2.827x 2.272x .125	6063-T6 ALUMINUM
40	HW-184-01	SHEAR BLOCK	3.153x 1.397x .125	6063-T6 ALUMINUM
41	HW-191-01	CORNER SPLICE	5.557x 1.125x 8.00x .126	6063-T6 ALUMINUM
42	HW-194-01	JAMB & STD. MULLION SPLICE	4.950x 1.125x 8.00x .125	6063-T6 ALUMINUM
43	HW-200-01	STD. MULLION ANCHOR SLEEVE	2.282x 4.953X 2.50x .125	6063-T6 ALUMINUM

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



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AUGUST 21, 2023

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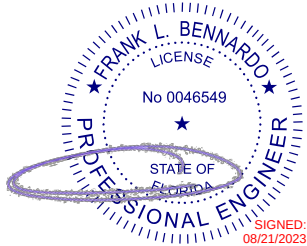
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BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL
44	HW-201-01	HEAVY MULL ANCHOR SLEEVE	2.282x 4.675X 2.50x .125	6063-T6 ALUMINUM
45	HW-201-02	HEAVY MULL SPLICE	2.282x 4.675X 8.00x .125	6063-T6 ALUMINUM
46	RS-15	REINFORCEMENT STEEL	.50x 4.00	ASTM A-36
46A	RS-17	REINFORCEMENT STEEL	.75x 4.00	ASTM A-36
47	RS-25	REINFORCEMENT STEEL	1.875x 4.721x 0.25	ASTM A-36
48	WW-110	FACE CAP	.50x 2.50x .050	6063-T5 ALUMINUM
49	WW-162	PRESSURE PLATE	.442x 2.394x .094	6063-T6 ALUMINUM
50	WW-224	COVER	2.50x 2.190x .078	6063-T5 ALUMINUM
51	WW-237	FILLER	.204x 4.905x .080	6063-T5 ALUMINUM
52	WW-352	ZONE PLUG	1.056x 1.675x .75	ABS PLASTIC
53	DOWSIL 795	PERIMETER SEAL	-	SILICONE
54	GE SCS 2000	PERIMETER SEAL	-	SILICONE
55	DOWSIL 995	POCKET SEAL	-	SILICONE
56	SSG 4600	POCKET SEAL	-	SILICONE
57	FASTENERS	MID POINT ANCHOR AT MULLIONS 5/8-18x 4 1/2" HH	4 1/2"	GRADE 5
58	FASTENERS	MID POINT ANCHOR AT MULLIONS 5/8-18x NUTS	-	GRADE 5
59	FASTENERS	MID POINT ANCHOR AT JAMBS 5/8-18x 1 3/4" HH FN THREAD	1 3/4"	GRADE 5
60	HW-108-01 "U" ANCHOR	AT DOOR JAMB MULLION & AT JAMB MULLION AT DOOR W/ NO SIDELITE & OPTIONAL AT JAMB MULLION	2.875x 1.468x 0.25x 4.062	6063-T6 ALUMINUM
61	D-226	DOOR JAMB	1.00x 5.00x .094	6063-T6 ALUMINUM
62	D-231	DOOR HEADER	1.00x 5.00x .094	6063-T6 ALUMINUM
63	GP-1015	DRY GLAZE GASKET	.319x 0.963	EPDM 70 DUROMETER
64	INSULATING GLASS UNIT SPACER	MODEL H 6.5 1/2" WIDEx 1/4" HIGHx 0.014" THICK		3105-H24 ALUMINUM
65	HW-105-03	"T" ANCHOR (CORNER MULLION)	7.50x 2.804x 0.25x 5.074	6063-T6 ALUMINUM

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 21, 2023



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