

TRULITE SB750 ALUMINUM CURTAIN WALL SYSTEM (N.I.)

1. SB750 CURTAIN WALL SYSTEM, NON-IMPACT WITH INSULATED OR MONOLITHIC SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE.
2. THIS PRODUCT IS NOT RATED FOR IMPACT RESISTANCE AND QUALIFIES FOR INSTALLATION OUTSIDE THE HVHZ ZONE ONLY (NON-HVHZ).
3. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODES, ASCE 7-22 FOR INSTALLATIONS UNDER 2023 FBC.
4. ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-22,MULTIPLY BY 0.6, A.S.D. DESIGN PRESSURE, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.
5. MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR THIS CURTAIN WALL SHALL BE AS SHOWN ON SHEETS 3,4,5,6,7,8 & 10.
6. ALL JOINT WELDING BETWEEN ANGLES AND STEEL STRUCTURE SHALL BE AS DETAIL SPECIFIED AND SHALL BE WELDED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY A.W.S. D.1.1 REGULATIONS. USE CERTIFIED WELDERS. USE E-70xx ELECTRODES.
7. ANCHORS SHALL BE AS LISTED. SPACED AS SPECIFIED ON THIS DRAWING. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. SEE ANCHOR SCHEDULES ON SHEETS 9 AND 10 FOR ANCHOR TYPE IDENTIFICATION AND SPACING FOR HEAD & SILL ANCHORS.
8. ANCHOR BOLTS/RODS WITH WASHER & NUTS AS PER ACI-318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
9. ALL BOLTS WITH WASHER & NUTS AND SCREWS AS PER AAMA TIR-A9-14 METAL CURTAIN WALL FASTENERS AND ANSI/AISC 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
10. ALL WELDING AS PER AWS D1.1 STRUCTURAL WELDING CODE - STEEL. ALL WELDS SHALL BE E70, Fu = 70ksi,
11. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE AS APPLICABLE.
12. SHOP DRAWING PREPARED BASED ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.
13. SUBSTRATE MATERIAL NOTED ON THIS DRAWING AS "BY OTHERS" MUST WITHSTAND THE LOADS IMPOSED BY THE CURTAIN WALL SYSTEM.
14. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

15. (A) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM P.A.D.
- (B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION, INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (C) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (D) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- (E) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
16. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

INSTRUCTIONS:

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING APPLICABLE ASCE 7-22 STANDARDS.
- STEP 2: SEE CHART ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS TYPE AND SIZE.
- STEP 3: CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 4 TO 6 FOR SINGLE SPANS AND CHARTS ON SHEETS 7 AND 8 FOR EQUAL MULTIPLE SPANS.
- STEP 4: FOR LIMITATION ON HORIZONTAL MULLION SEE SHEET 13.
- STEP 5: FOR TYPICAL HEAD AND SILL ANCHOR WITH "T" OR "F" CLIP, SEE SHEET 9.
- STEP 6: USE CHART ON SHEET 10 FOR DESIGN LOAD CAPACITY FOR HEAD AND SILL ANCHOR THROUGH FRAME.
- STEP 7: FOR CURTAIN WALL INTERMEDIATE ANCHOR SEE SHEET 11.
- STEP 8: THE LOWEST VALUE RESULTING FROM STEP 2,3,4,5 AND 6 SHALL APPLY TO ENTIRE SYSTEM.




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p. 800-432-8132

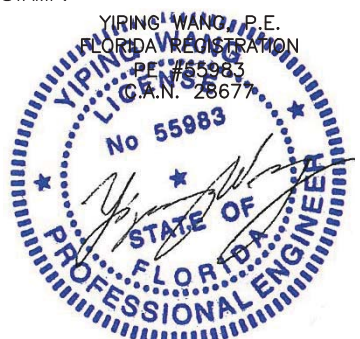
PRODUCT:	
SERIES SB750 CURTAIN WALL	
REV#	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

ENGINEER:

**MCY ENGINEERING, INC.**
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

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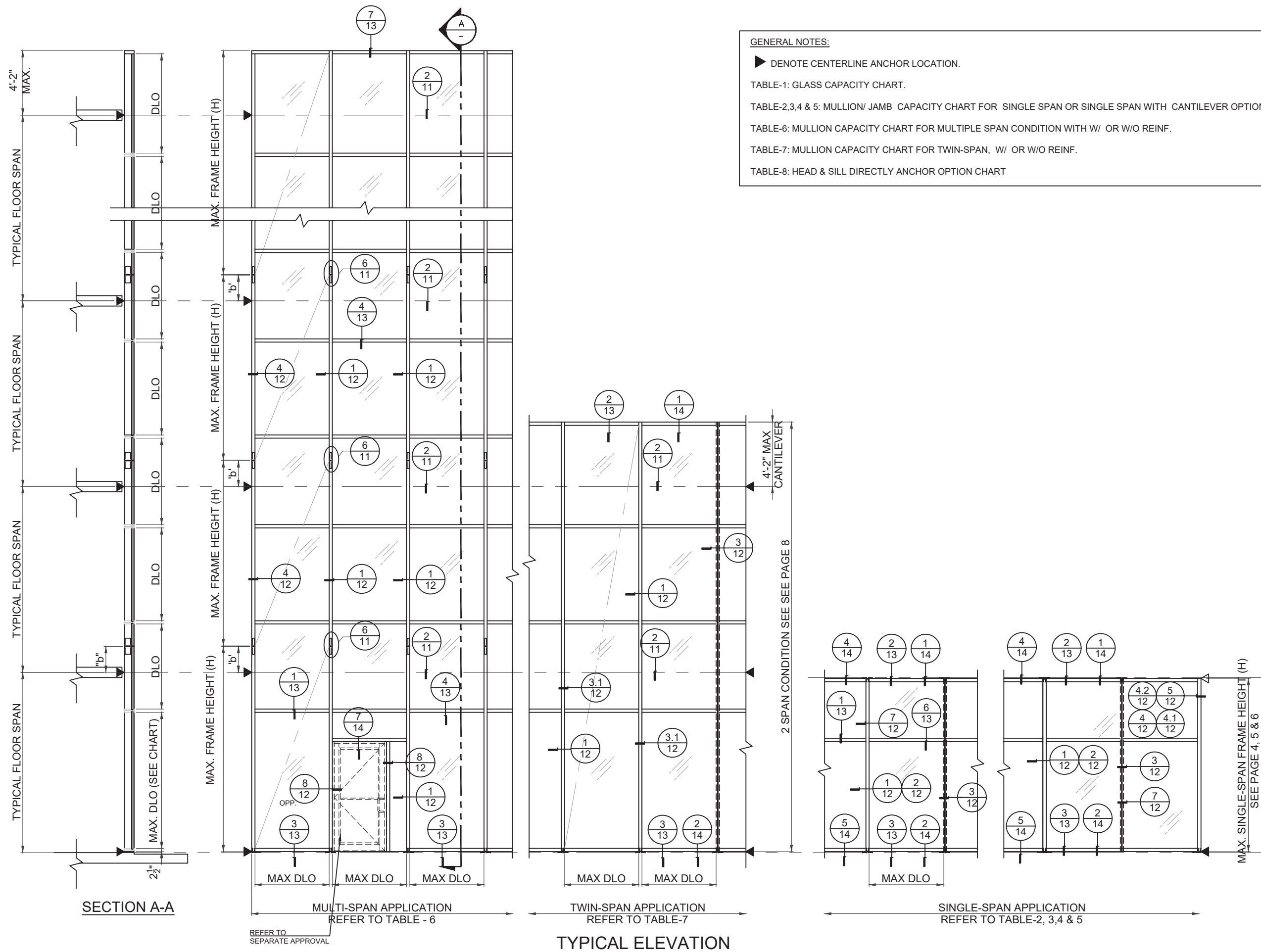
YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.E.N. 28677

August 01st, 2023

FLORIDA APPROVAL:

FL #17881

DRAWN: James	DRAWING No:
DATE: 3/12/21	1 OF 17
DWG: SB750PA	



GENERAL NOTES:

► DENOTE CENTERLINE ANCHOR LOCATION.

TABLE-1: GLASS CAPACITY CHART.

TABLE-2,3,4 & 5: MULLION/ JAMB CAPACITY CHART FOR SINGLE SPAN OR SINGLE SPAN WITH CANTILEVER OPTION

TABLE-6: MULLION CAPACITY CHART FOR MULTIPLE SPAN CONDITION WITH W/ OR W/O REINF.

TABLE-7: MULLION CAPACITY CHART FOR TWIN-SPAN, W/ OR W/O REINF.

TABLE-8: HEAD & SILL DIRECTLY ANCHOR OPTION CHART



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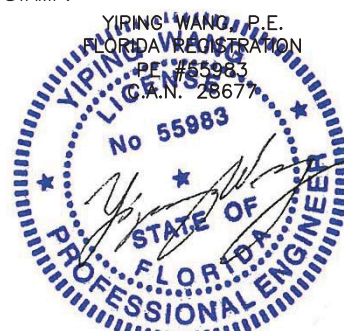
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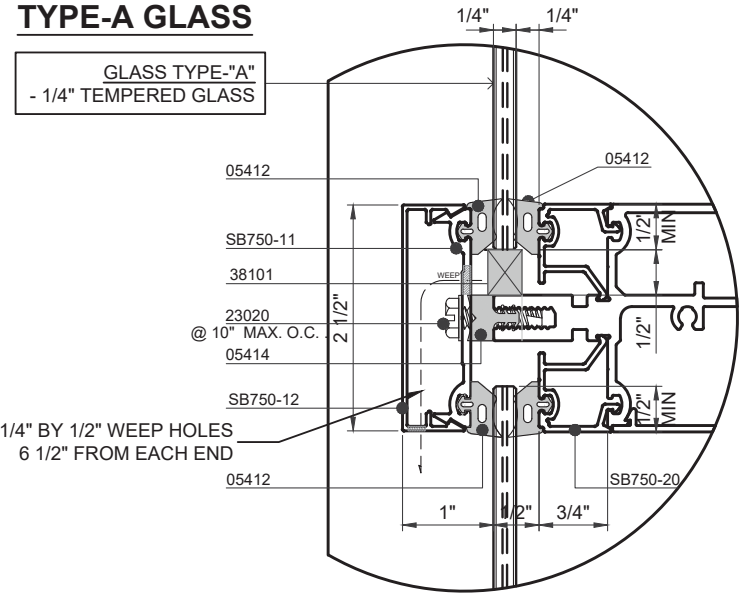
TABLE-1

DESIGN LOAD DUE TO GLASS CAPACITY					
NOMINAL DIMENSIONS			Glass Type		
			"A"	"B"	"C"
Daylight Opening (DLO)			Ext. (+)	Ext. (+)	Ext. (+)
Height (in)	Width (in)	Glass Area (in)	Int. (-) (psf)	Int. (-) (psf)	Int. (-) (psf)
≤ 72	42	21.00	100	100	100
	45	22.50	100	100	100
	48	24.00	100	100	100
	51	25.50	100	100	100
	54	27.00	100	100	100
	57	28.50	100	100	100
	60	30.00	100	100	100
	63	31.50	100	100	100
	66	33.00	100	100	100
	69	34.50	100	100	100
78	72	36.00	100	100	100
	42	22.75	100	100	100
	45	24.38	100	100	100
	48	26.00	100	100	100
	51	27.63	100	100	100
	54	29.25	100	100	100
	57	30.88	100	100	100
	60	32.50	100	100	100
	63	34.13	100	100	100
	66	35.75	100	100	100
84	69	37.38	100	100	100
	72	39.00	100	100	100
	42	24.50	100	100	100
	45	26.25	100	100	100
	48	28.00	100	100	100
	51	29.75	100	100	100
	54	31.50	100	100	100
	57	33.25	100	100	100
	60	35.00	100	100	100
	63	36.75	100	100	100
90	66	38.50	100	100	100
	69	40.25	100	100	100
	72	42.00	100	100	100
	42	26.25	100	100	100
	45	28.13	100	100	100
	48	30.00	100	100	100
	51	31.88	100	100	100
	54	33.75	100	100	100
	57	35.63	100	100	100
	60	37.50	100	100	100
96	63	39.38	100	100	100
	66	41.25	100	100	100
	69	43.13	100	100	100
	72	45.00	100	100	99
	42	28.00	100	100	100
	45	30.00	100	100	100
	48	32.00	100	100	100
	51	34.00	100	100	100

DESIGN LOAD DUE TO GLASS CAPACITY					
NOMINAL DIMENSIONS			Glass Type		
			"A"	"B"	"C"
Daylight Opening (DLO)			Ext. (+)	Ext. (+)	Ext. (+)
Height (in)	Width (in)	Glass Area (in)	Int. (-) (psf)	Int. (-) (psf)	Int. (-) (psf)
96	54	36.00	100	100	100
	57	38.00	100	100	100
	60	40.00	100	100	100
	63	42.00	100	100	100
	66	44.00	100	100	99.6
	69	46.00	100	100	96.5
102	42	29.75	100	100	100
	45	31.88	100	100	98
	48	34.00	100	100	98
	51	36.13	100	100	98
	54	38.25	100	100	98
	57	40.38	100	100	98
	60	42.50	100	100	97
	63	44.63	100	100	96
	66	46.75	100	100	93
108	42	31.50	100	100	94
	45	33.75	100	100	91
	48	36.00	100	100	90
	51	38.25	100	100	90
	54	40.50	100	100	90
	57	42.75	100	100	90
	60	45.00	100	100	90
114	42	33.25	100	100	90
	45	35.63	95.6	100	86
	48	38.00	94.2	100	84
	51	40.38	93.9	100	84
	54	42.75	94.4	100	84
	57	45.13	94.9	100	84
120	42	35.00	96.3	100	86
	45	37.50	90.5	100	81
	48	40.00	86.8	100	78
	51	42.50	87	100	78
	54	45.00	87.3	100	78
126	42	36.75	92.4	100	83
	45	39.38	85.5	100	77
	48	42.00	82.2	100	74
	51	44.63	81	100	73
132	42	38.50	89.3	100	80
	45	41.25	82.1	100	74
	48	44.00	78.4	100	70
	51	46.75	77.1	100	69
138	42	40.25	64.8	100	77
	45	43.13	59.7	100	71
	48	0.00	56.6	100	67
144	42	42.00	62.9	100	75
	45	45.00	57.9	100	69

TYPE-A GLASS

GLASS TYPE-"A"
- 1/4" TEMPERED GLASS

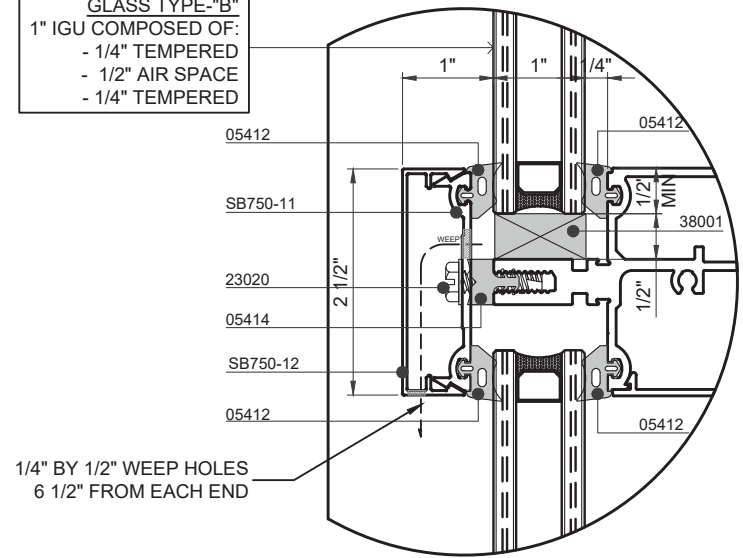


NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUST)

NOTE:
IN ORDER TO COMPLY WITH FBC SECTION
2406 / 2411.1.11 THE OUTBOARD LITE
MUST BE TEMPERED AND COMPLY WITH
FED. STD. 16 CFR 1201 WHERE REQUIRED.
ie. GLASS LITES AT GROUND LEVEL AND
NEXT TO DOORS.

TYPE-B GLASS

GLASS TYPE-"B"
1" IGU COMPOSED OF:
- 1/4" TEMPERED
- 1/2" AIR SPACE
- 1/4" TEMPERED



TYPE-C GLASS

GLASS TYPE-"C"
1" IGU COMPOSED OF:
- 1/4" H.S.
- 1/2" AIR SPACE
- 1/4" H.S.

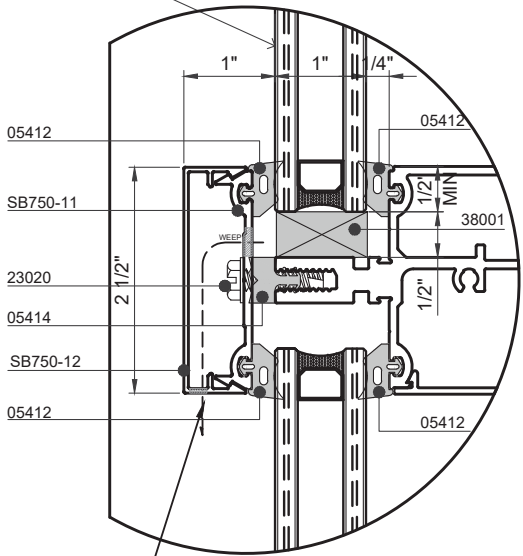


FIG-A: TYPICAL GLAZING DETAIL

GLASS TABLE
GLASS TYPE A: 1/4" GLASS TEMPERED
GLASS TYPE B: 1/4" TEMPERED + 1/2" AIR SPACE + 1/4" TEMPERED
GLASS TYPE C: 1/4" H.S. + 1/2" AIR SPACE + 1/4" H.S.



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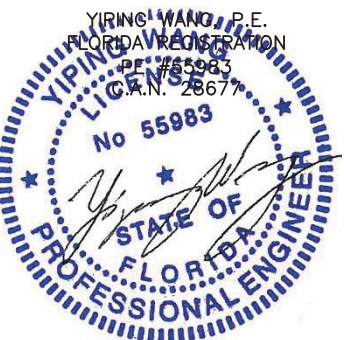
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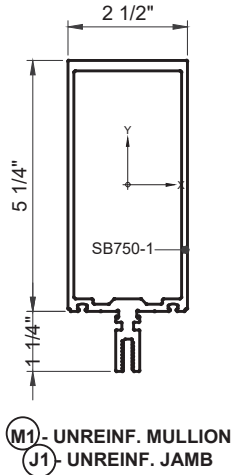
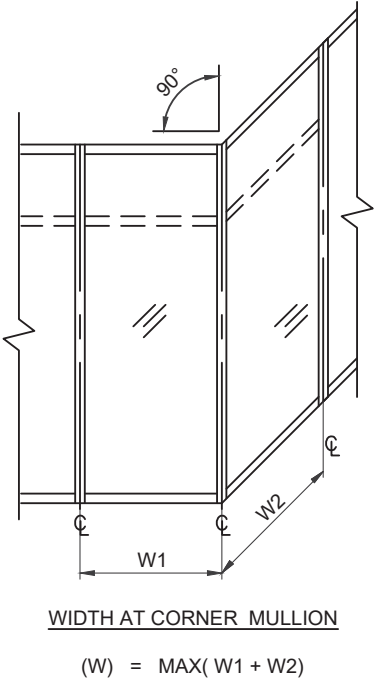
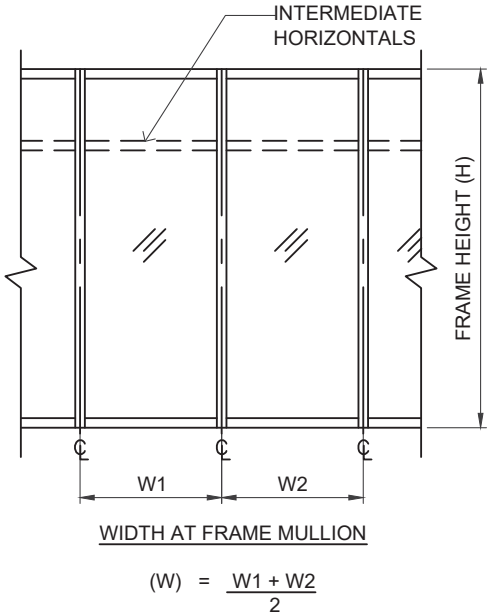
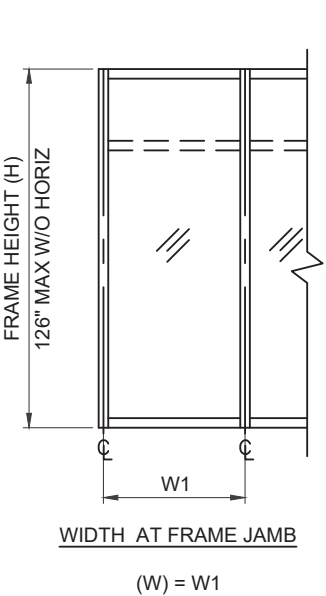
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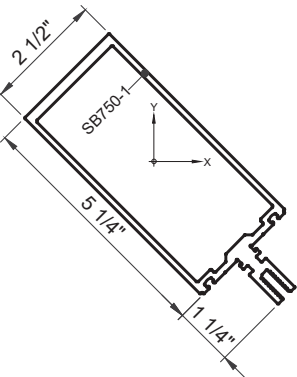
DRAWN: James DRAWING No:
DATE: 3/12/21 3 OF 17
DWG: SB750PA

TABLE-2

MULLION LOAD CAPACITY (PSF)				MULLION LOAD CAPACITY (PSF)			
SINGLE-SPAN W/ OR W/O INTERM. HORIZONTALS				SINGLE-SPAN W/ OR W/O INTERM. HORIZONTALS			
NOM. DIMENSION		ALLOW DESIGN LOAD		NOM. DIMENSION		ALLOW DESIGN LOAD	
HEIGHT	WIDTH	M1, M1C	M2, J1, M2C	HEIGHT	WIDTH	M1, M1C	M2, J1, M2C
H (in)	W (in)	(+ / -) psf	(+ / -) psf	H (in)	W (in)	(+ / -) psf	(+ / -) psf
≤90	42	73.5	96.5	132	42	50.1	65.8
	48	64.3	84.4		48	43.8	57.6
	54	57.2	75.1		54	39.0	51.2
	60	51.4	67.6		60	35.1	46.1
	66	46.8	61.4		66	31.9	41.9
	72	42.9	56.3		72	29.2	38.4
96	42	68.9	90.5	138	42	47.9	62.9
	48	60.3	79.2		48	41.9	55.1
	54	53.6	70.4		54	37.3	49.0
	60	48.2	63.3		60	33.5	44.1
	66	43.8	57.6		66	30.5	40.1
	72	40.2	52.8		72	28.2	36.2
102	42	64.8	85.2	144	42	45.9	60.3
	48	56.7	74.5		48	40.2	52.8
	54	50.4	66.2		54	35.7	46.9
	60	45.4	59.6		60	32.1	42.2
	66	41.3	54.2		66	29.2	38.4
	72	37.8	49.7		72	26.8	34.9
108	42	61.2	80.4	150	42	44.1	57.9
	48	53.6	70.4		48	38.6	50.7
	54	47.6	62.6		54	34.3	45.0
	60	42.9	56.3		60	30.9	40.5
	66	39.0	51.2		72	28.2	36.2
	72	35.7	46.9		72	25.8	32.2
114	42	58.0	76.2	156	42	40.3	51.7
	48	50.8	66.7		48	35.3	45.3
	54	45.1	59.3		54	31.3	40.2
	60	40.6	53.3		60	28.2	36.2
	66	36.9	48.5		72	25.1	32.2
	72	33.8	44.4		72	22.2	28.6
120	42	55.1	72.4	162	42	34.9	44.9
	48	48.2	63.3		48	30.6	39.3
	54	42.9	56.3		54	27.2	34.9
	60	38.6	50.7		60	24.5	31.4
	66	35.1	46.1		72	21.4	27.9
	72	32.1	42.2		72	18.5	24.4
126	42	52.5	68.9	168	42	32.2	41.4
	48	45.9	60.3		48	28.2	36.2
	54	40.8	53.6		54	25.1	32.2
	60	36.7	48.3		72	22.2	28.6
	66	33.4	43.9		72	19.7	25.4
	72	30.6	40.2		72	17.2	22.4

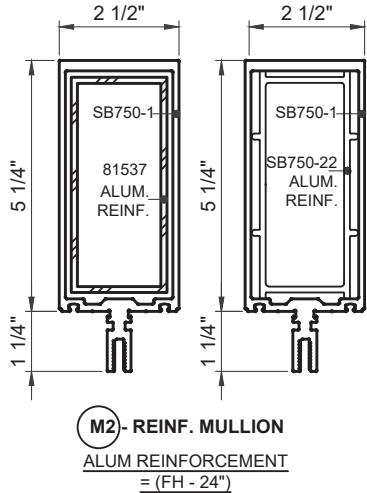


SB750-1 MULLION
Ix= 12.8010 in^4
Sx= 3.7671 in^3

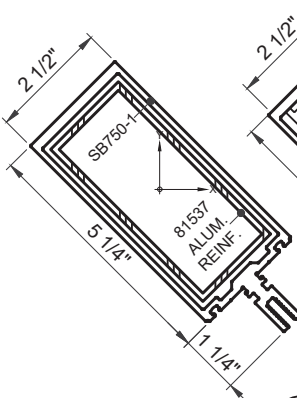


M1C - UNREINF. MULLION

SB750-1 CORNER MULLION
Ix=Iy= 7.5219 in^4
Sx=Sy= 2.4493 in^3



81537 (ALUM REINF)
Ix= 3.9925 in^4
Sx= 1.7744 in^3



M2C - REINF. MULLION

81537 (ALUM REINF)
Ix=Iy= 2.5472 in^4
Sx=Sy= 2.2981 in^3

SB750-22 (ALUM REINF)
Ix= 4.2145 in^4
Sx= 1.7832 in^3

SB750-22 (ALUM REINF)
Ix=Iy= 2.6459 in^4
Sx=Sy= 1.1366 in^3

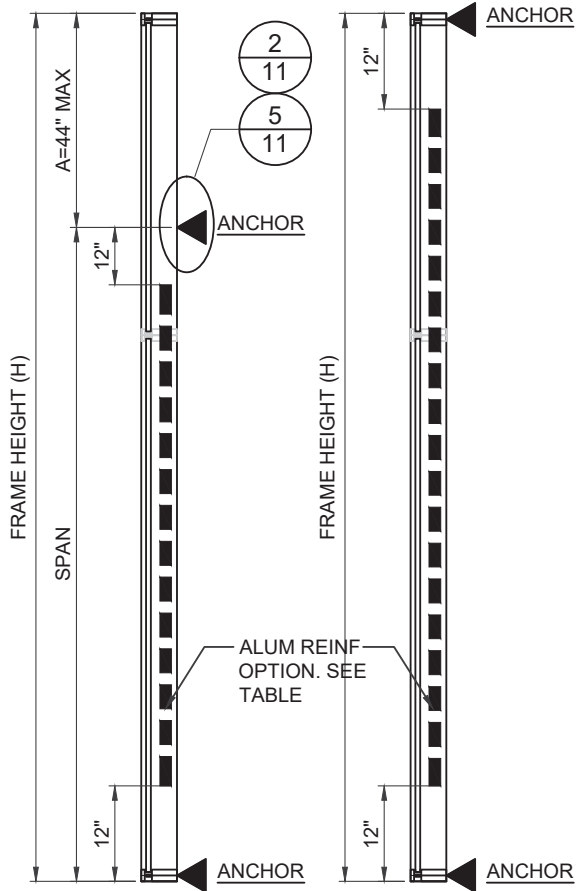


FIGURE-C

FIGURE-D



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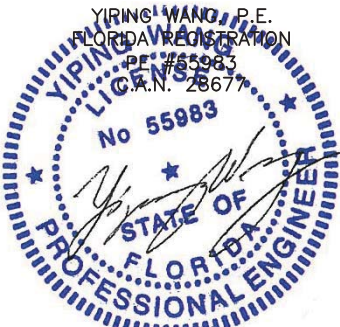
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FL #17881

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DATE: 3/12/21	4 OF 17
DWG: SB750PA	

TABLE-3

SB750-2 MULLION LOAD CAPACITY (PSF)			
SINGLE-SPAN W/ OR W/O INTERM. HORIZONTALS			
NOM. DIMENSION		ALLOW DESIGN LOAD	
HEIGHT	WIDTH	M3	M4/J2
H (in)	W (in)	(+ / -) psf	(+ / -) psf
≤90	42	63.6	73.5
	48	55.7	64.3
	54	49.5	57.2
	60	44.6	51.4
	66	40.5	46.8
	72	37.1	42.9
96	42	59.7	68.9
	48	52.2	60.3
	54	46.4	53.6
	60	41.8	48.2
	66	38.0	43.8
	72	34.8	40.2
102	42	56.2	64.8
	48	49.1	56.7
	54	43.7	50.4
	60	39.3	45.4
	66	35.7	41.3
	72	32.8	37.8
108	42	53.0	61.2
	48	46.4	53.6
	54	41.3	47.6
	60	37.1	42.9
	66	33.8	39.0
	72	30.9	35.7
114	42	50.2	58.0
	48	44.0	50.8
	54	39.1	45.1
	60	35.2	40.6
	66	32.0	36.9
	72	29.3	33.8
120	42	47.7	55.1
	48	41.8	48.2
	54	37.1	42.9
	60	33.4	38.6
	66	30.4	35.1
	72	27.8	32.1
126	42	45.5	52.5
	48	39.8	45.9
	54	35.4	40.8
	60	31.8	36.7
	66	28.9	33.4
	72	26.5	30.6

SB750-2 MULLION
Ix = 10.4229 in^4
Sx = 3.0781 in^3

SB750-22 (ALUM REINF.)
Ix = 4.2145 in^4
Sx = 1.7832 in^3

81537 (ALUM. REINF.)
Ix = 3.9925 in^4
Sx = 1.7744 in^3

NOTE:

- REFER TO FIGURE-C & D FOR FURTHER INFO.

- ALUM REINFORCEMENT IS FRAME HEIGHT- 24".

SB750-2 MULLION LOAD CAPACITY (PSF)			
SINGLE-SPAN W/ OR W/O INTERM. HORIZONTALS			
NOM. DIMENSION		ALLOW DESIGN LOAD	
HEIGHT	WIDTH	M3	M4/J2
H (in)	W (in)	(+ / -) psf	(+ / -) psf
132	42	43.4	50.1
	48	38.0	43.8
	54	33.8	39.0
	60	30.4	35.1
	66	27.6	31.9
	72	25.3	29.2
138	42	41.5	47.9
	48	36.3	41.9
	54	32.3	37.3
	60	29.1	33.5
	66	26.4	30.5
144	42	39.8	45.9
	48	34.8	40.2
	54	30.9	35.7
	60	27.8	32.1
	66	25.3	29.2
150	42	38.2	44.1
	48	33.4	38.6
	54	29.7	34.3
	60	26.7	30.9
156	42	36.7	42.4
	48	32.1	37.1
	54	28.6	33.0
	60	25.7	29.7
162	42	34.9	40.8
	48	30.6	35.7
	54	27.2	31.8
	60	24.5	28.6
168	42	32.1	37.1
	48	28.1	32.4
	54	25.0	28.8
174	42	28.5	33.4
	48	25.0	29.2
	54	22.2	25.9
180	42	25.3	30.1
	48	22.2	26.4
	54	19.7	23.4

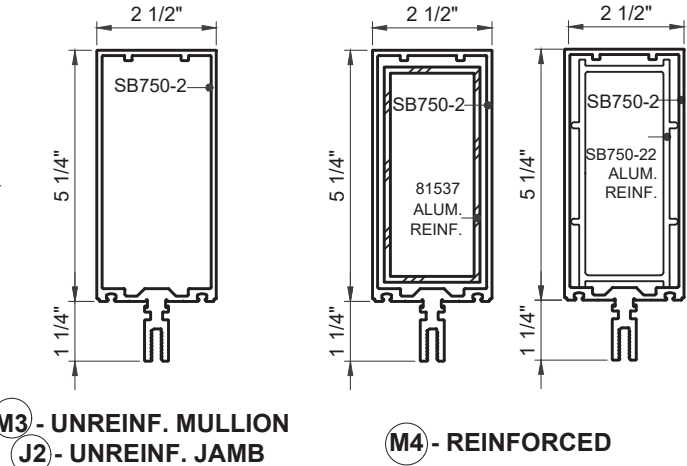


TABLE-4

MULLION LOAD CAPACITY (PSF)			
SINGLE-SPAN W/ OR W/O INTERM. HORIZONTALS			
NOM. DIMENSION		ALLOW DESIGN LOAD	
HEIGHT	WIDTH	M5	M6/J3
H (in)	W (in)	(+ / -) psf	(+ / -) psf
≤90	42	53.9	68.6
	48	47.2	60.0
	54	42.0	53.3
	60	37.8	48.0
	66	34.3	43.6
	72	31.5	40.0
96	42	50.6	68.6
	48	44.3	60.0
	54	39.3	53.3
	60	35.4	48.0
	66	32.2	43.6
	72	29.5	40.0
102	42	47.6	64.8
	48	41.6	56.7
	54	37.0	50.4
	60	33.3	45.4
	66	30.3	41.3
	72	27.8	37.8
108	42	45.0	61.2
	48	39.3	53.6
	54	35.0	47.6
	60	31.5	42.9
	66	28.6	39.0
	72	26.2	35.7
114	42	42.6	58.0
	48	37.3	50.8
	54	33.1	45.1
	60	29.8	40.6
	66	27.1	36.9
	72	24.8	33.8
120	42	40.5	55.1
	48	35.4	48.2
	54	31.5	42.9
	60	28.3	38.6
	66	25.7	35.1
	72	23.6	32.1
126	42	38.5	52.5
	48	33.7	45.9
	54	30.0	40.8
	60	27.0	36.7
	66	24.5	33.4
	72	22.5	30.6

82520 ALUM. REINF.
Ix = 3.4520 in^4
Sx = 1.5791 in^3

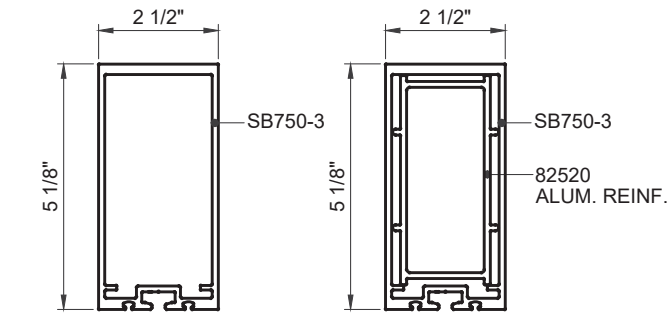
SB750-3 MULLION
Ix = 8.8170 in^4
Sx = 3.3787 in^3

NOTE:

- REFER TO FIGURE-C & D FOR FURTHER INFO.

- ALUM REINFORCEMENT IS FRAME HEIGHT- 24".

MULLION LOAD CAPACITY (PSF)			
SINGLE-SPAN W/ OR W/O INTERM. HORIZONTALS			
NOM. DIMENSION		ALLOW DESIGN LOAD	
HEIGHT	WIDTH	M5	M6/J3
H (in)	W (in)	(+ / -) psf	(+ / -) psf
132	42	36.8	50.1
	48	32.2	43.8
	54	28.6	39.0
	60	25.7	35.1
	66	23.4	31.9
	72	21.5	29.2
138	42	35.2	47.9
	48	30.8	41.9
	54	27.4	37.3
	60	24.6	33.5
	66	22.4	30.5
144	42	33.7	45.9
	48	29.5	40.2
	54	26.2	35.7
	60	23.6	32.1
	66	21.5	29.2
150	42	32.4	44.1
	48	28.3	38.6
	54	25.2	34.3
	60	22.7	30.9
156	42	31.1	42.4
	48	27.2	37.1
	54	24.2	33.0
	60	21.8	29.7
162	42	30.0	40.8
	48	26.2	35.7
	54	23.3	31.8
	60	21.0	28.6
168	42	27.2	37.1
	48	23.8	32.4
	54	21.2	28.8
174	42	24.5	33.4
	48	21.4	29.2
	54	19.0	25.9
180	42	22.1	30.1
	48	19.4	26.4
	54	17.2	23.4



NOTE: STRUCTURAL SILICONE CAPACITIES HAVE BEEN INCOOPORATED IN MULLION CHART.



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PRODUCT:

SERIES SB750
CURTAIN WALL


REVN	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

ENGINEER:


MCY ENGINEERING, INC.
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

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FLORIDA APPROVAL:

FL #17881

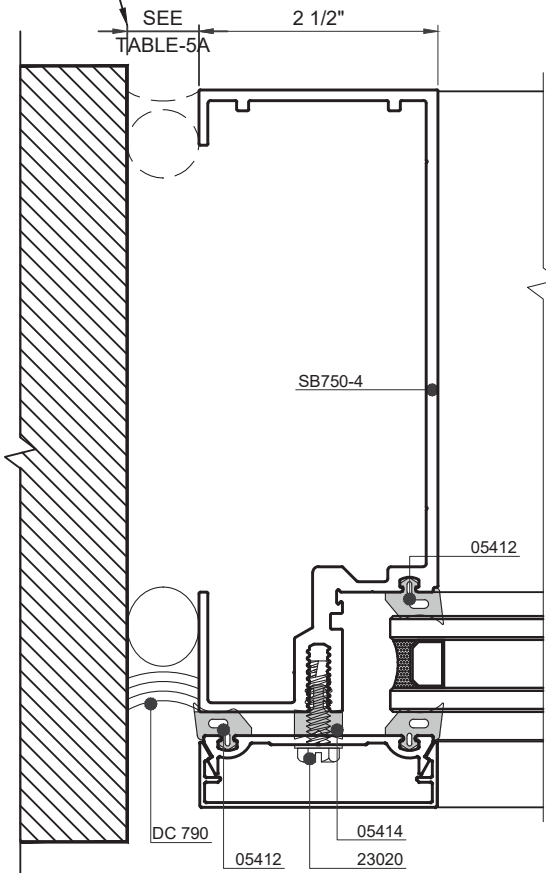
DRAWN: James	DRAWING No:
DATE: 3/12/21	5 OF 17
DWG: SB750PA	

TABLE-5

ALLOW DESIGN LOAD CAPACITY (PSF)			
NOM. DIMENSION		JAMB	MULLION
HEIGHT	WIDTH	J4	M0, J0
H (in)	W (in)	(+ / -) psf	(+ / -) psf
≤90	42	73.5	38.3
	48	63.4	33.5
	54	57.2	29.8
	60	51.4	26.8
	66	46.8	24.4
	72	42.9	22.3
96	42	68.9	35.9
	48	60.3	31.4
	54	53.6	27.9
	60	48.2	25.1
	66	43.8	22.8
	72	40.2	20.9
102	42	64.8	33.8
	48	56.7	29.6
	54	50.4	26.3
	60	45.4	23.7
	66	41.3	21.5
	72	37.8	19.7
108	42	61.2	31.9
	48	53.6	27.9
	54	47.6	24.8
	60	42.9	22.3
	66	39.0	20.3
	72	35.7	18.6
114	42	55.3	30.2
	48	48.4	26.5
	54	43.0	23.5
	60	38.7	21.2
	66	35.2	19.2
	72	32.2	17.6
120	42	44.9	28.7
	48	39.3	25.1
	54	34.9	22.3
	60	31.4	20.1
	66	28.5	18.3
	72	26.2	16.8

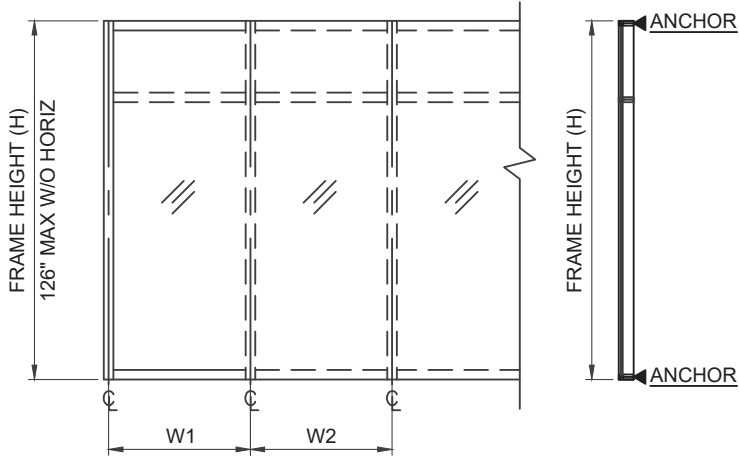
TABLE - 5A

FRAME HEIGHT	MIN. GAP	MAX. GAP
120" (10' - 0")	3/8"	1"
156" (13' - 0")	1/2"	
180" (15' - 0")	5/8"	



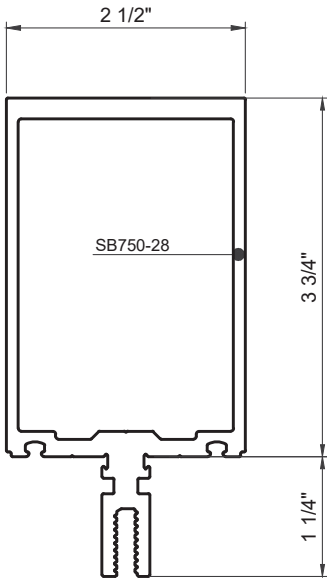
J4 - SB750-4 JAMB MULLION

SB750-4 MULLION
Ix = 10.0154 in^4
Sx = 2.8265 in^3



WIDTH AT FRAME JAMB WIDTH AT FRAME MULLION

(W) = W1 (W) = $\frac{W1 + W2}{2}$



M0 - SB750-28 MULLION

J0 - SB750-28 JAMB

SB750-28 MULLION/JAMB
Ix = 6.2441 in^4
Sx = 2.3182 in^3



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MCY ENGINEERING, INC.
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.E.N. 28677

August 01st, 2023

FLORIDA APPROVAL:

FL #17881

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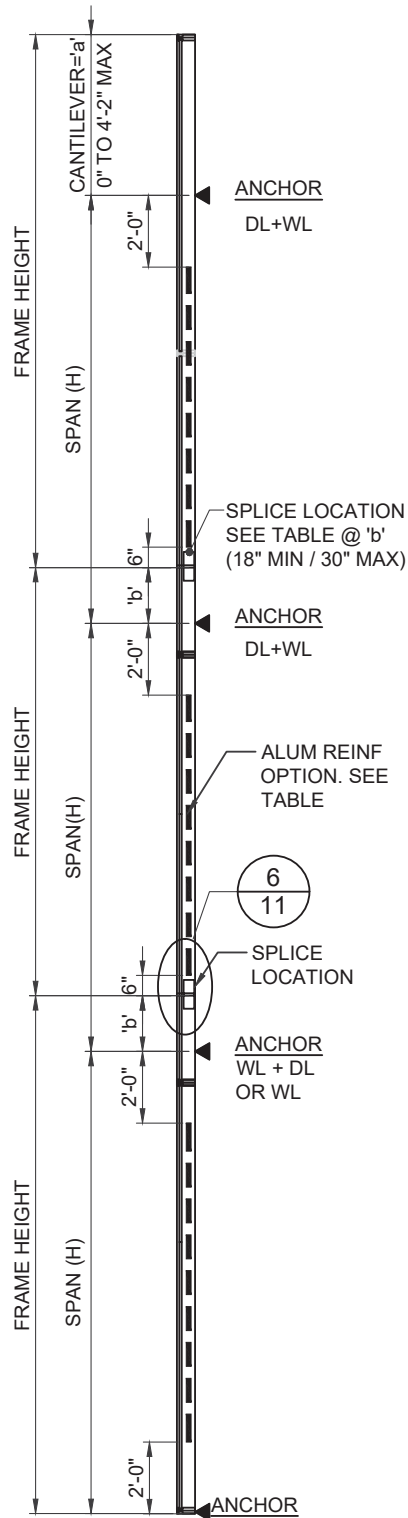
DWG: SB750PA

TABLE-6

SB750-1 MULLION LOAD CAPACITY (PSF)							
MULTIPLE SPANS							
SPAN HEIGHT H (in)	WIDTH W (in)	M1, M1C			M2, J1, M2C		
		Splice Above Anchor (b)			Splice Above Anchor (b)		
		18 in	24 in	30 in	18 in	24 in	30 in
≤144	36	61.1	66.6	71.6	78.2	85.4	91.9
	42	52.4	57.1	61.3	67.1	73.2	78.8
	48	45.8	49.9	53.7	58.7	64.1	68.9
	54	40.7	44.4	47.7	52.2	56.9	61.3
	60	36.7	40.0	42.9	46.9	51.2	55.1
	66	33.3	36.3	39.0	42.7	46.6	50.1
156	36	47.0	51.1	54.9	60.3	65.6	70.6
	42	40.3	43.8	47.0	51.7	56.2	60.5
	48	35.3	38.3	41.1	45.3	49.2	52.9
	54	31.3	34.0	36.6	40.2	43.7	47.0
	60	28.2	30.6	32.9	36.2	39.4	42.3
163	36	40.8	44.2	47.4	52.4	56.8	61.0
	42	34.9	37.8	40.6	44.9	48.7	52.3
	48	30.6	33.1	35.6	39.3	42.6	45.8
	54	27.2	29.4	31.6	34.9	37.9	40.7
	60	24.5	26.5	28.4	31.4	34.1	36.6
168	36	37.6	40.7	43.6	48.3	52.4	56.2
	42	32.2	34.9	37.4	41.4	44.9	48.2
	48	28.2	30.5	32.7	36.2	39.3	42.2
	54	25.1	27.1	29.1	32.2	34.9	37.5
180	36	29.6	31.8	34.1	38.0	41.0	44.0
	42	25.3	27.3	29.2	32.6	35.2	37.7
	48	22.2	23.9	25.6	28.5	30.8	33.0
	54	19.7	21.2	22.7	25.4	27.4	29.3

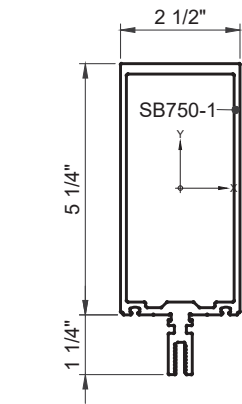
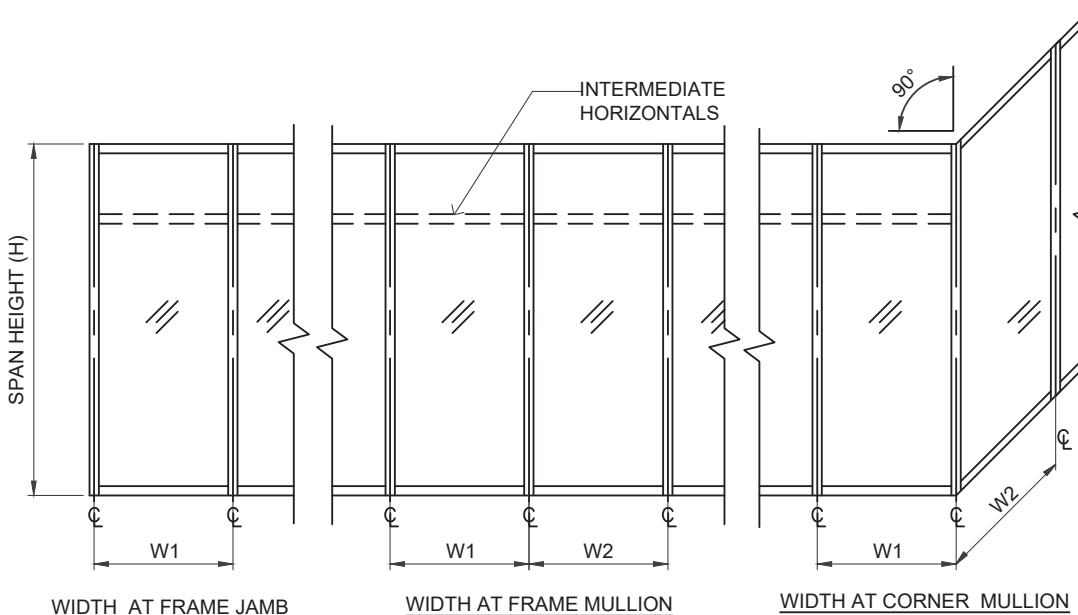
GENERAL NOTE:

- UNEQUAL SPANS TO BE CHECKED ON A JOB-TO-JOB BASIS.
- END REACTIONS MAY CHANGE WITH LOCATION OF EXPANSION JOINT.
- LENGTH OF CANTILEVER'S WORST CONDITION DEPICTED. PROJECT CONDITION MAY VARY.
- TWIN-SPAN CONTINUOUS MULLION WITHOUT OVERHANG CAN BE INSTALLED. FOR EACH SPAN USE TABLE ON THIS SHEET.



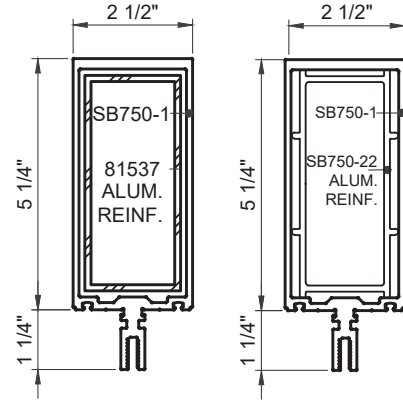
CONDITION C:

MULTIPLE-SPAN WITH OR WITHOUT CANTILEVER. (SEE TABLE).



M1 - UNREINF. MULLION
J1 - UNREINF. JAMB

SB750-1 MULLION
Ix= 12.8010 in⁴
Sx= 3.7671 in³

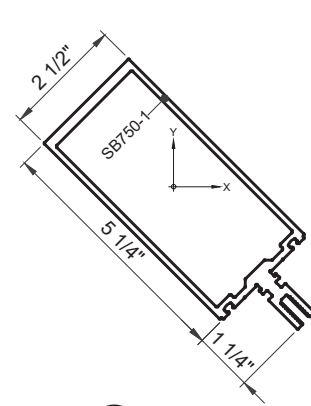


M2 - REINF. MULLION

ALUM REINFORCEMENT= (H-4'-0")

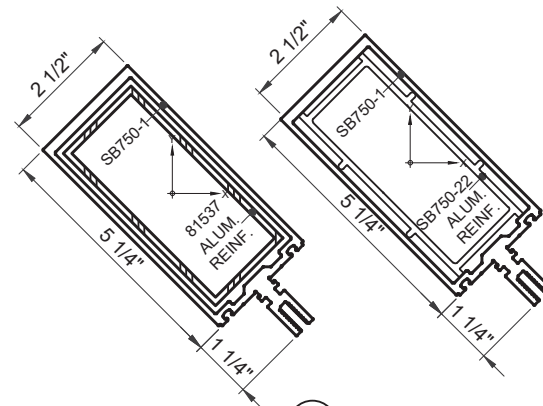
81537 (ALUM REINF)
Ix= 3.9925 in⁴
Sx= 1.7744 in³

SB750-22 (ALUM REINF)
Ix= 4.2145 in⁴
Sx= 1.7832 in³



M1C - UNREINF. MULLION

SB750-1 CORNER MULLION
Ix=Iy= 7.5219 in⁴
Sx=Sy= 2.4493 in³



M2C - REINF. MULLION

81537 (ALUM REINF)
Ix=Iy= 2.5472 in⁴
Sx=Sy= 2.2981 in³

SB750-22 (ALUM REINF)
Ix=Iy= 2.6459 in⁴
Sx=Sy= 1.1366 in³



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GLAZING CONSULTANT

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Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

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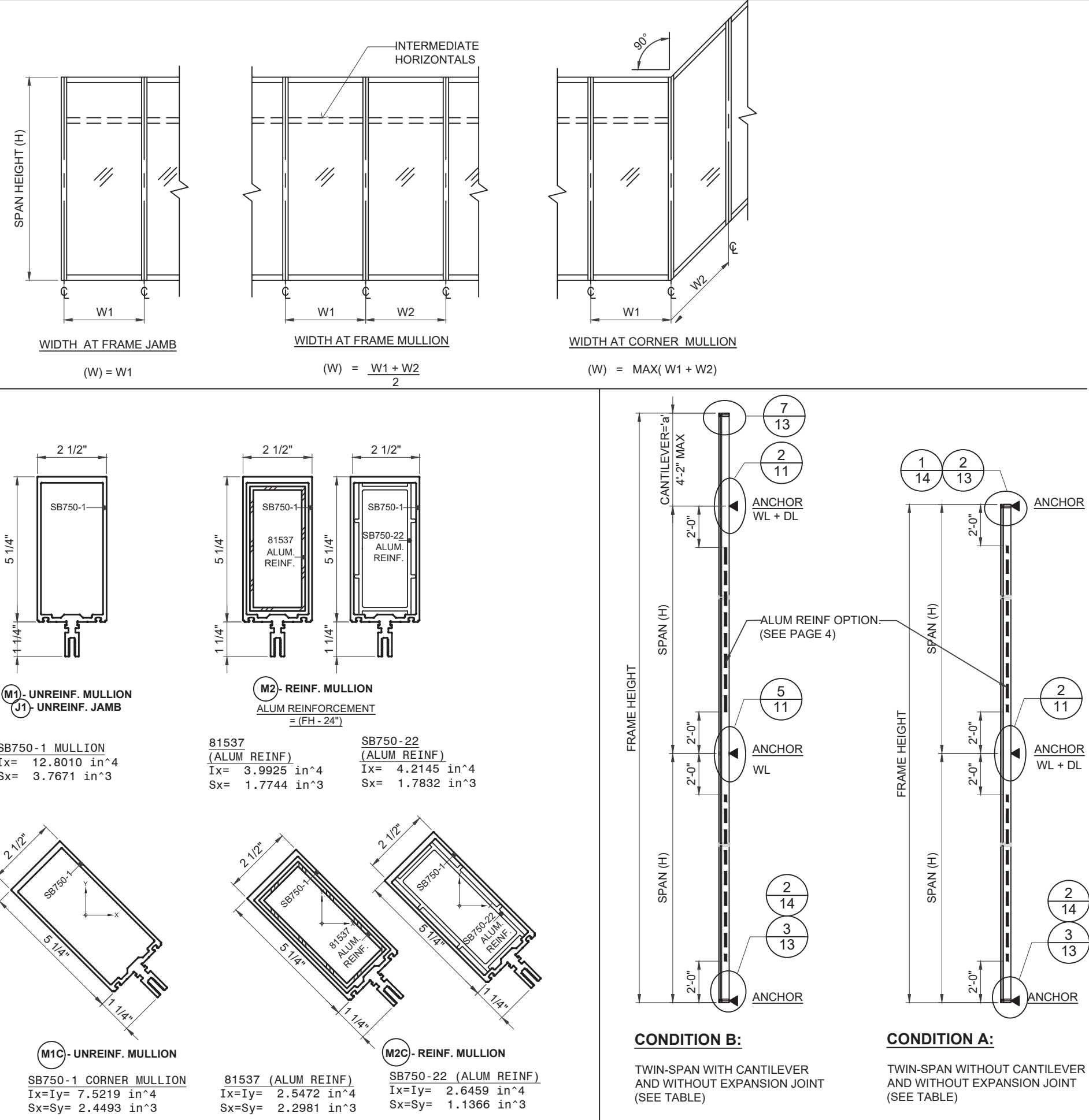
FLORIDA APPROVAL:

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DATE: 3/12/21	7 OF 17
DWG: SB750PA	

TABLE-7

SB750-1 MULLION LOAD CAPACITY (PSF)			
TWIN - SPAN C O N D I T I O N A & B			
SPAN HEIGHT H (in)	WIDTH W (in)	M1, M1C	M2,J1, M2C
≤144	36	79.7	85.9
	42	68.3	73.6
	48	59.8	64.4
	54	53.1	57.2
	60	47.8	51.5
	66	43.5	46.8
156	36	67.9	73.0
	42	58.2	62.6
	48	50.9	54.8
	54	45.2	48.7
	60	40.7	43.8
163	36	62.2	66.8
	42	53.3	57.3
	48	46.6	50.1
	54	41.4	44.6
	60	37.3	40.1
168	36	58.5	62.9
	42	50.2	53.9
	48	43.9	47.2
	54	39.0	41.9
180	36	51.0	54.7
	42	43.7	46.9
	48	38.2	41.0
	54	34.0	36.5



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Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

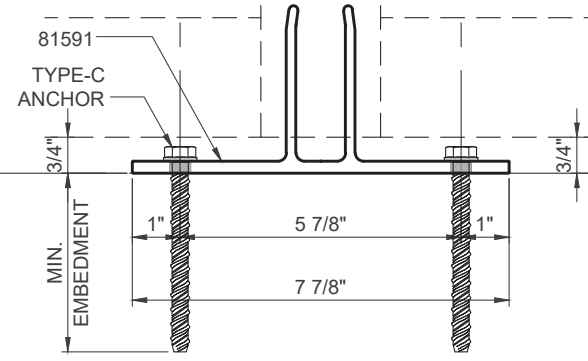
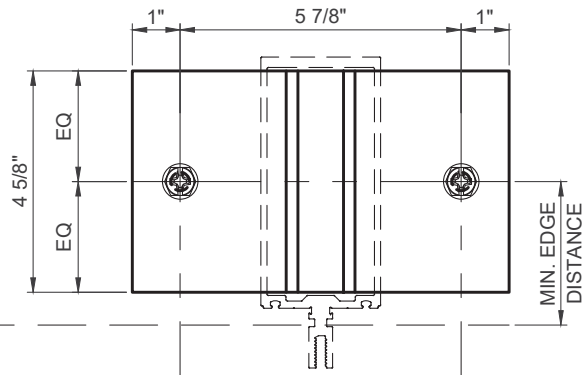
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FLORIDA REGISTRATION
No. 55983
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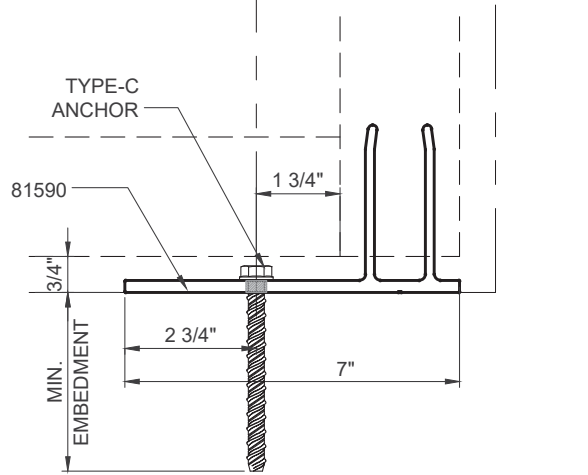
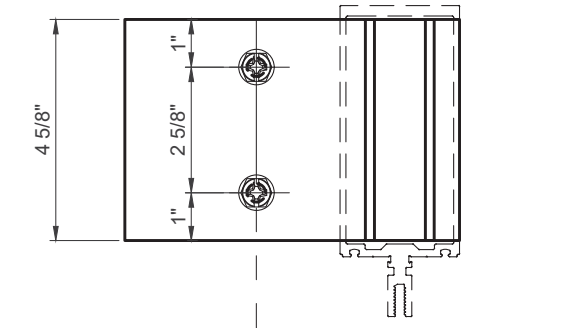
FLORIDA APPROVAL:

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DRAWN: James	DRAWING No:
DATE: 3/12/21	8 OF 17
DWG: SB750PA	



1 ANCHOR TYPE-C @ MULLION



2 ANCHOR TYPE-C @ JAMB MULLION

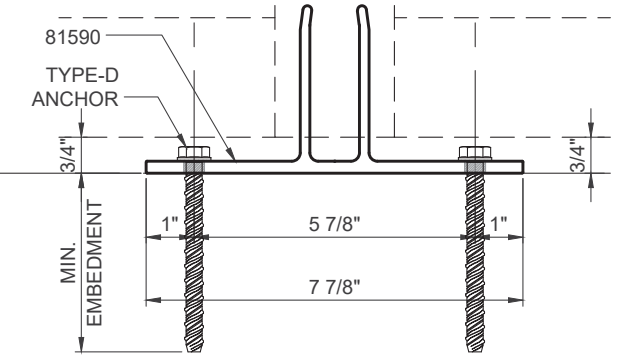
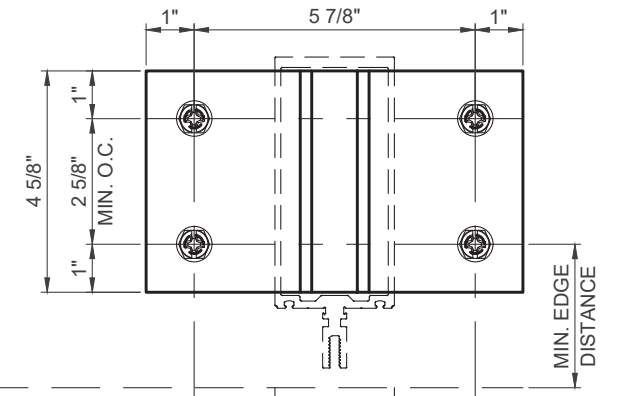
"F" & "T" MULLION ANCHORS

TYPE 'C' 3/8"Ø DEWALT SCREW BOLT + INTO CONCRETE (fc' = 3 ksi MIN.)
- 3 1/4" MIN. EMBEDMENT
- 3" MIN. EDGE DISTANCE

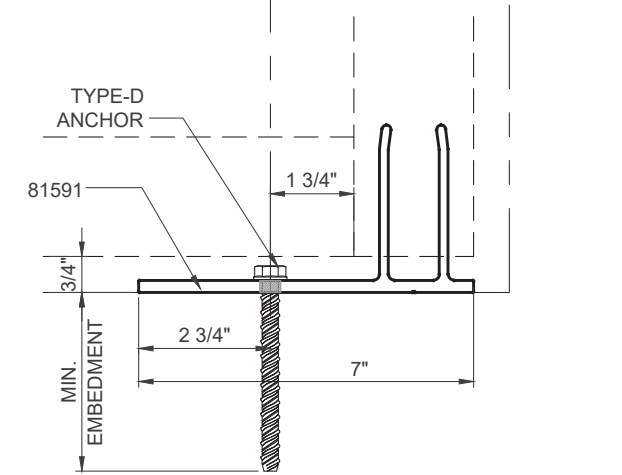
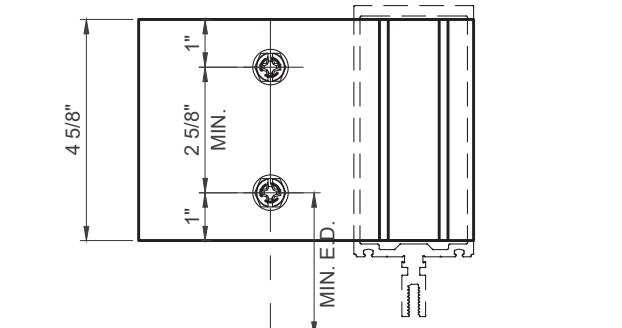
TYPE 'D' 5/16" DIA ULTRACON + BY DEWALT (Fu=177 ksi, Fy=155 ksi)
- 1-3/4" MIN. EMBEDMENT INTO CONCRETE (fc' = 3 ksi MIN.)
- 2 1/4" MIN. EDGE DISTANCE

NOTE:
ANCHORS SHOWN ON THIS PAGE MEET THE DESIGN LOAD REQUIREMENTS FOR MULLIONS AND JAMBS FROM SHEETS 4 TO 8.

5 ANCHOR TYPE @ DEEP MULLION OR JAMB



3 ANCHOR TYPE-D @ MULLION




4 ANCHOR TYPE-D @ JAMB MULLION

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REVN	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

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GLAZING CONSULTANT
12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

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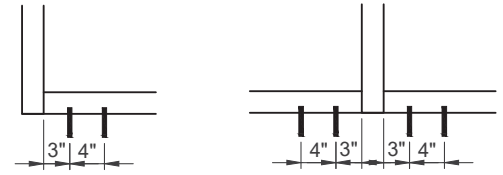
FL #17881

DRAWN: James	DRAWING No:
DATE: 3/12/21	9 OF 17
DWG: SB750PA	

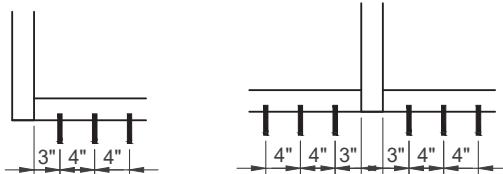
TABLE-8
ANCHOR CAPACITIES CHART (DIRECT ANCHOR THRU FRAME)

ANCHOR LOAD CAPACITIES (PSF)			
NOM. DIMENSION	3/8" SHIM SPACE		
HEIGHT	WIDTH	"A2/B2"	"A3/B3"
H (in)	W (in)	(+/-) psf	(+/-) psf
≤90	42	75.6	113.4
	48	66.1	99.2
	54	58.8	88.2
	60	52.9	79.4
	66	48.1	72.1
	72	44.1	66.1
96	42	70.9	106.3
	48	62.0	93.0
	54	55.1	82.7
	60	49.6	74.4
	66	45.1	67.6
	72	41.3	62.0
102	42	66.7	100.0
	48	58.4	87.5
	54	51.9	77.8
	60	46.7	70.0
	66	42.4	63.7
	72	38.9	58.4
108	42	63.0	94.5
	48	55.1	82.7
	54	49.0	73.5
	60	44.1	66.1
	66	40.1	60.1
	72	36.7	55.1
114	42	59.7	89.5
	48	52.2	78.3
	54	46.4	69.6
	60	41.8	62.7
	66	38.0	57.0
	72	34.8	52.2
120	42	56.7	85.0
	48	49.6	74.4
	54	44.1	66.1
	60	39.7	59.5
	66	36.1	54.1
	72	33.1	49.6
126	42	54.0	81.0
	48	47.2	70.9
	54	42.0	63.0
	60	37.8	56.7
	66	34.4	51.5
	72	31.5	47.2

ANCHOR LOAD CAPACITIES (PSF)			
NOM. DIMENSION	3/8" SHIM SPACE		
HEIGHT	WIDTH	"A2/B2"	"A3/B3"
in	in	(+/-) psf	(+/-) psf
132	42	51.5	77.3
	48	45.1	67.6
	54	40.1	60.1
	60	36.1	54.1
	66	32.8	49.2
	72	30.1	45.1
138	42	49.3	73.9
	48	43.1	64.7
	54	38.3	57.5
	60	34.5	51.8
	66	31.4	47.1
144	42	47.2	70.9
	48	41.3	62.0
	54	36.7	55.1
	60	33.1	49.6
	66	30.1	45.1
150	42	45.3	68.0
	48	39.7	59.5
	54	35.3	52.9
	60	31.7	47.6
156	42	43.6	65.4
	48	38.2	57.2
	54	33.9	50.9
	60	30.5	45.8
162	42	42.0	63.0
	48	36.7	55.1
	54	32.7	49.0
	60	29.4	44.1
168	42	40.5	60.7
	48	35.4	53.1
	54	31.5	47.2
174	42	39.1	58.6
	48	34.2	51.3
	54	30.4	45.6
180	42	37.8	56.7
	48	33.1	49.6
	54	29.4	44.1

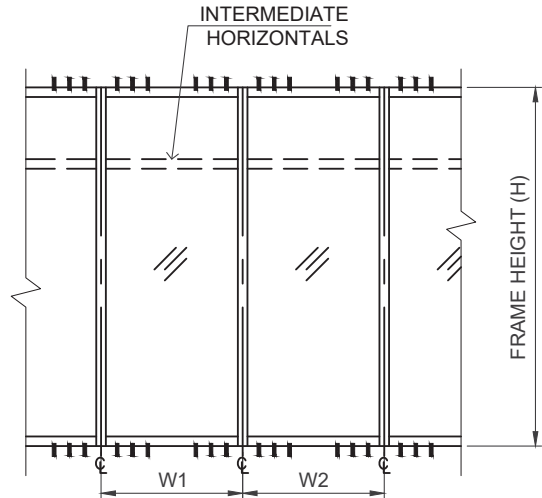


ANCHORS TYPE "A" OR "B"
2 @ EACH SIDE OF MULLION OR JAMB



ANCHORS TYPE "A" OR "B"
3 @ EACH SIDE OF MULLION OR JAMB

"A2" - 2 ANCHOR TYPE A AT EACH SIDE OF MULLION OR JAMB
"A3" - 3 ANCHOR TYPE A AT EACH SIDE OF MULLION OR JAMB
"B2" - 2 ANCHOR TYPE B AT EACH SIDE OF MULLION OR JAMB
"B3" - 3 ANCHOR TYPE B AT EACH SIDE OF MULLION OR JAMB



WIDTH AT FRAME MULLION
$$(W) = \frac{W1 + W2}{2}$$

METAL STRUCTURES NOT BY TRULITE GLASS & ALUMINUM. MUST SUPPORT
LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER TO THE BUILDING STRUCTURE.

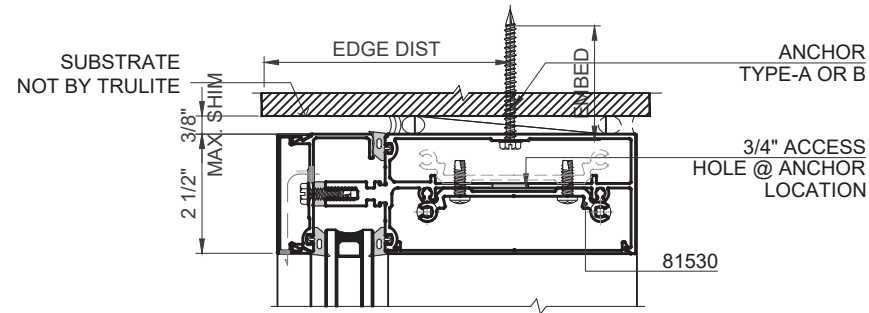
HEAD & SILL ANCHORS

TYPE "A" 1/4 DIA ULTRACON + BY DEWALT (Fu=164 ksi, Fy=148 ksi)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBEDMENT INTO CONCRETE.

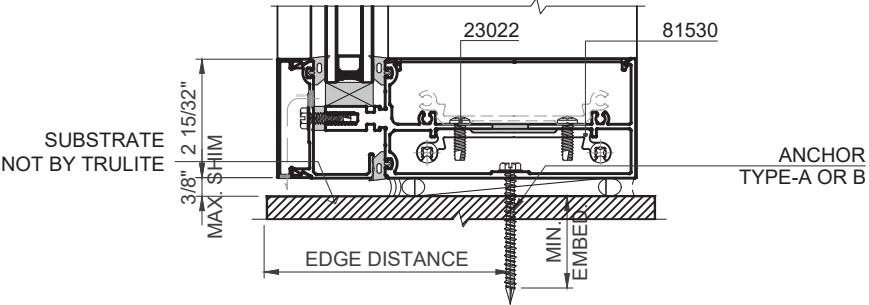
TYPE "B" 1/4 DIA TEK OR SELF DRILLING SCREWS (Grade-5) (Fu=120 ksi, Fy=92 ksi)
INTO METAL STRUCTURES
- STEEL: 1/8" THK MIN. (Fy = 36 ksi MIN.)
- ALUMINUM: 1/8" THK MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
- INTO CONCRETE = 2 1/2" MIN.
- INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL f_c = 3050 psi MIN. (EXCEPT AS NOTED)



1
10 TYPICAL HEAD / SILL ANCHOR DETAIL



2
10 TYPICAL HEAD / SILL ANCHOR DETAIL



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PRODUCT:

SERIES SB750
CURTAIN WALL

REV#	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

ENGINEER:

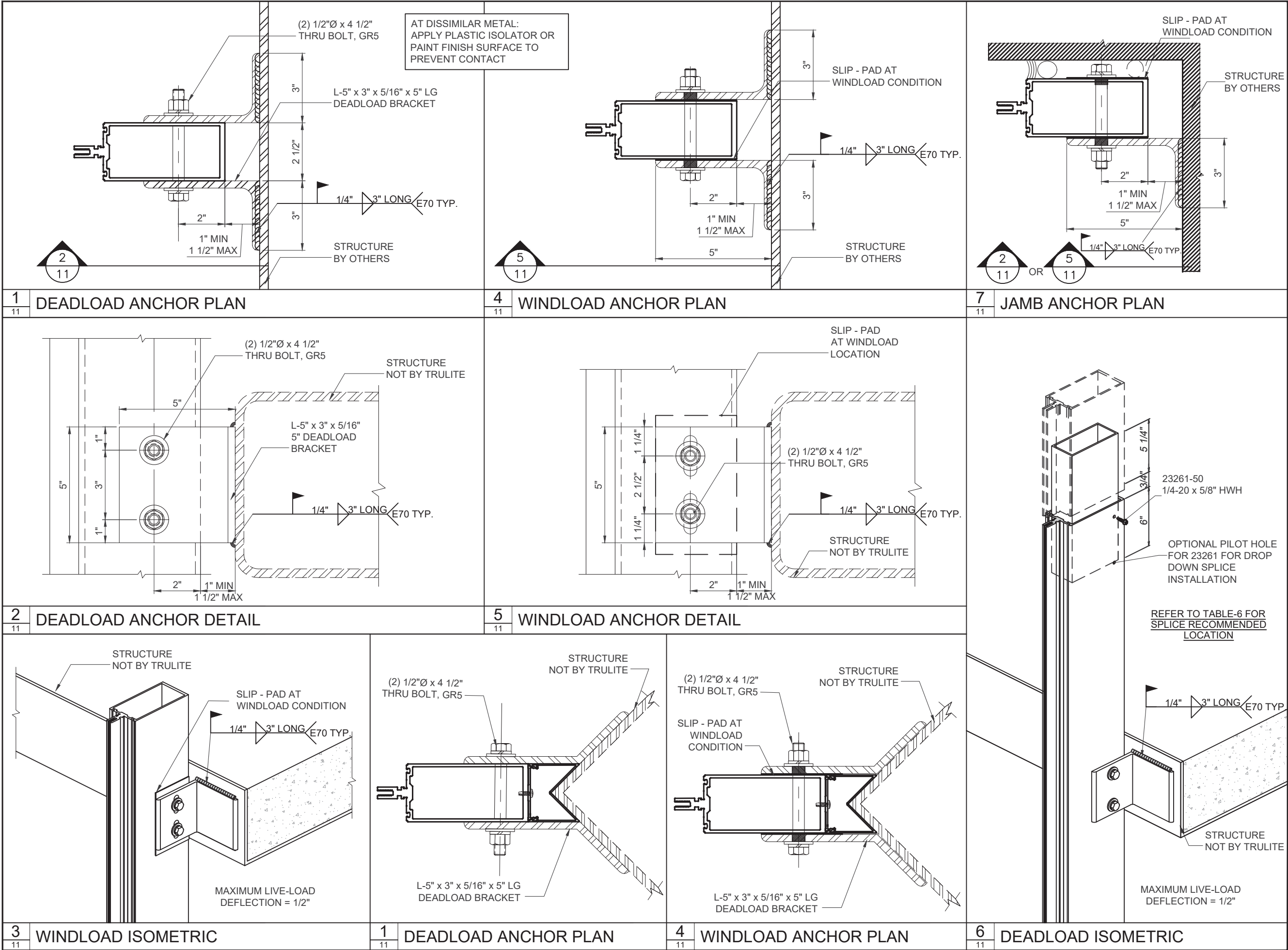
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GLAZING CONSULTANT
12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

STAMP:

FLORIDA APPROVAL:

FL #17881

DRAWN: James	DRAWING No:
DATE: 3/12/21	10 OF 17
DWG: SB750PA	



PRODUCT:

**SERIES SB750
CURTAIN WALL**

REV#	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

ENGINEER:

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GLAZING CONSULTANT

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STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
August 01st, 2023

FLORIDA APPROVAL:

FL #17881

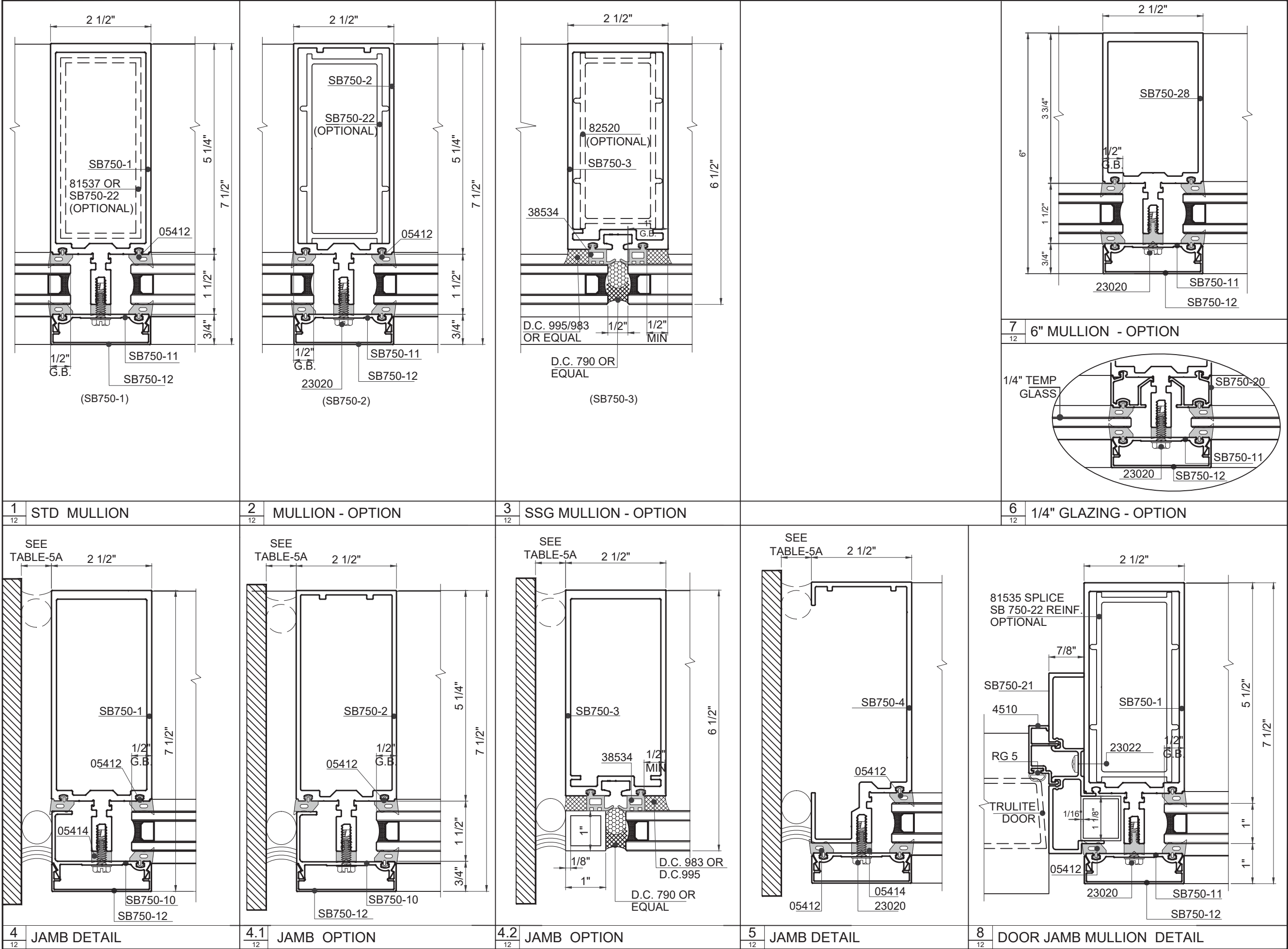
DRAWN: James


DATE: 3/12/21

DWG: SB750PA

DRAWING No:

11 OF 17





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PRODUCT:

SERIES SB750
CURTAIN WALL

REV#	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

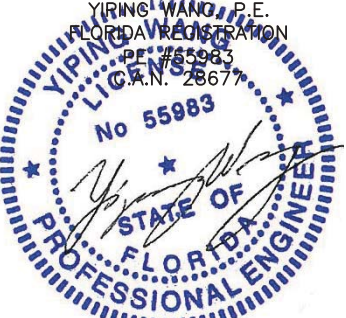
ENGINEER:



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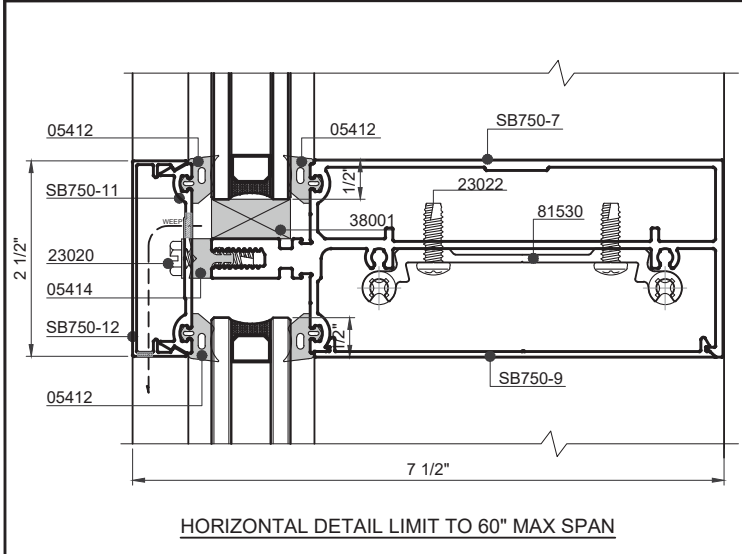


August 01st, 2023

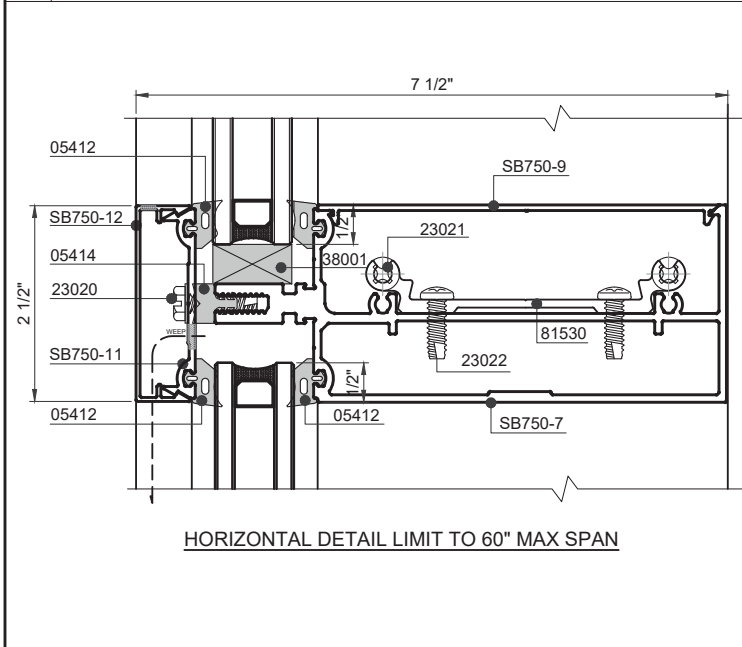
FLORIDA APPROVAL:

FL #17881

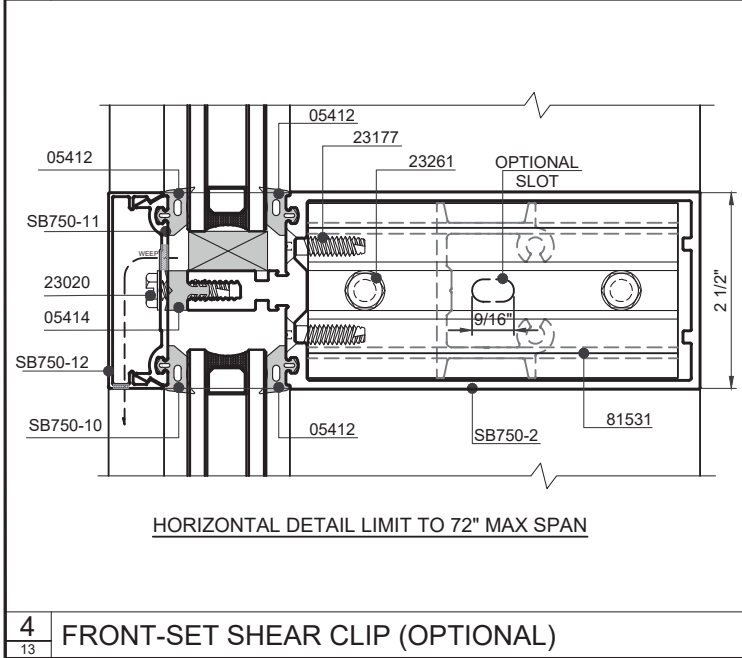
DRAWN: James	DRAWING No:
DATE: 3/12/21	12 OF 17
DWG: SB750PA	



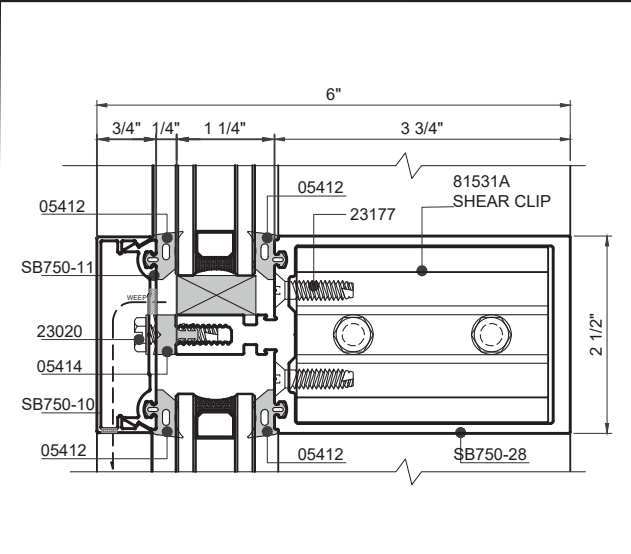
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13 TOP-SET SHEAR CLIP (OPTION-1)



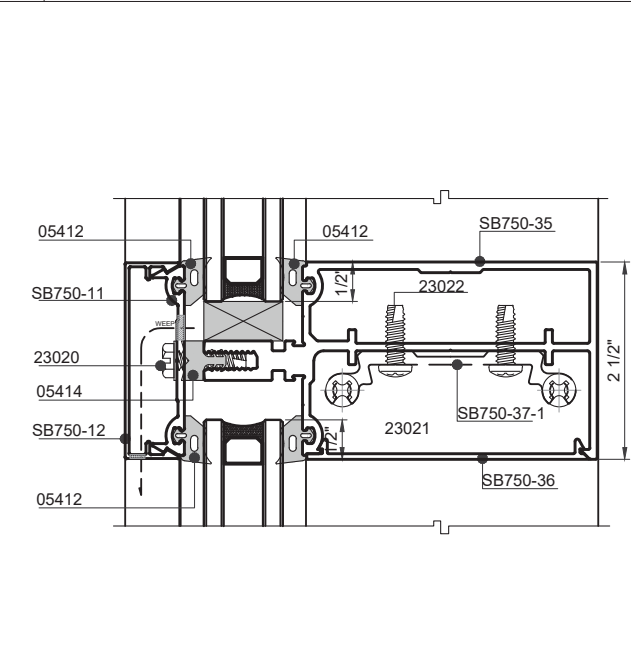
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13 HORIZONTAL - OPTION 2



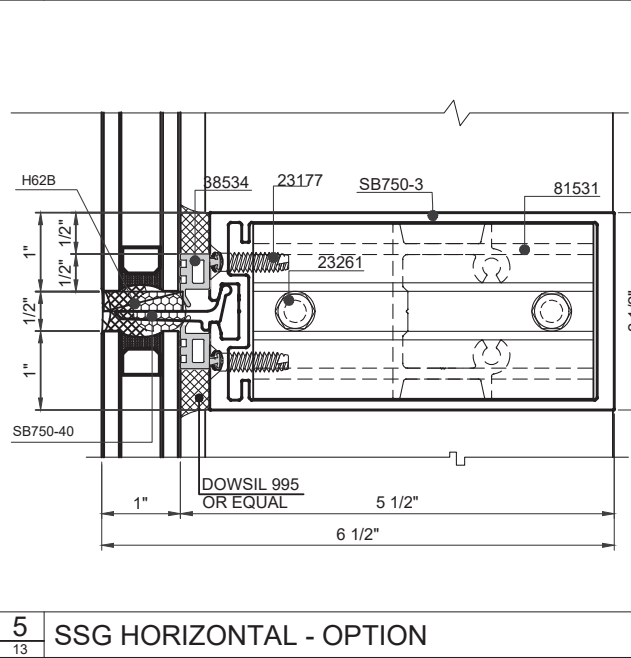
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13 FRONT-SET SHEAR CLIP (OPTIONAL)



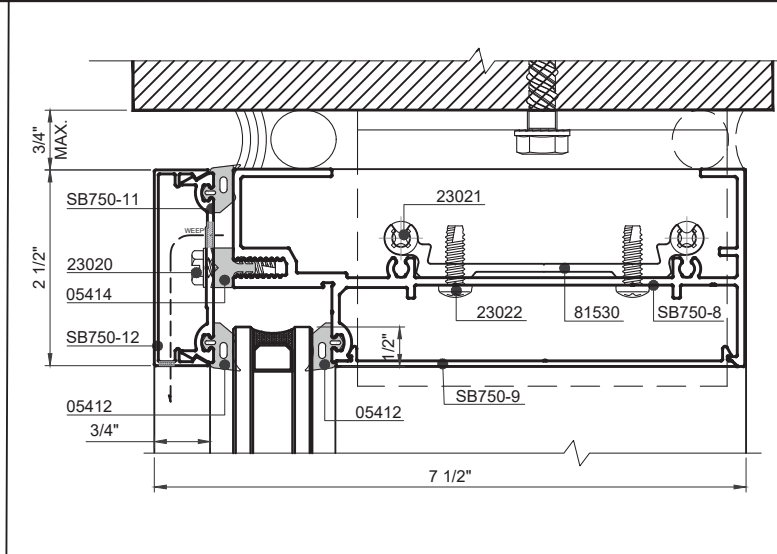
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13 HORIZONTAL - DETAIL



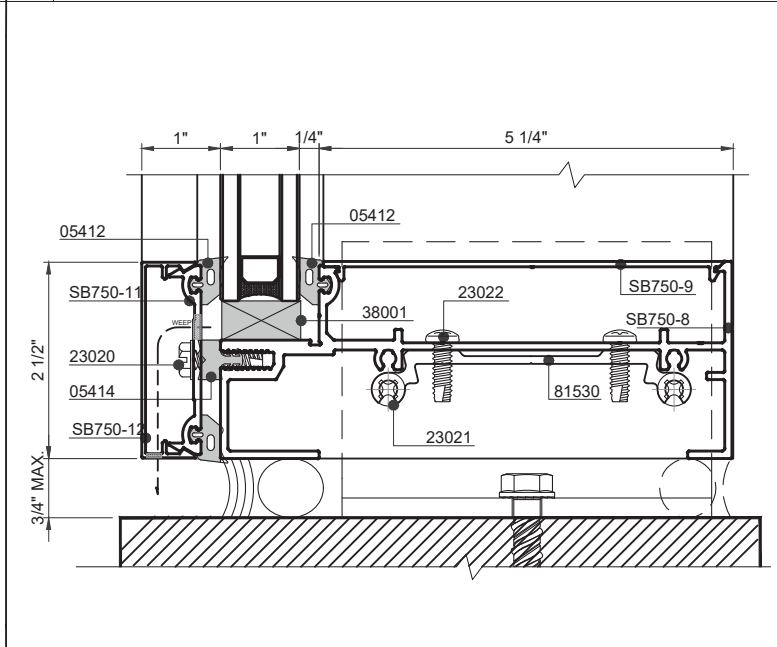
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13 HORIZONTAL - OPTION



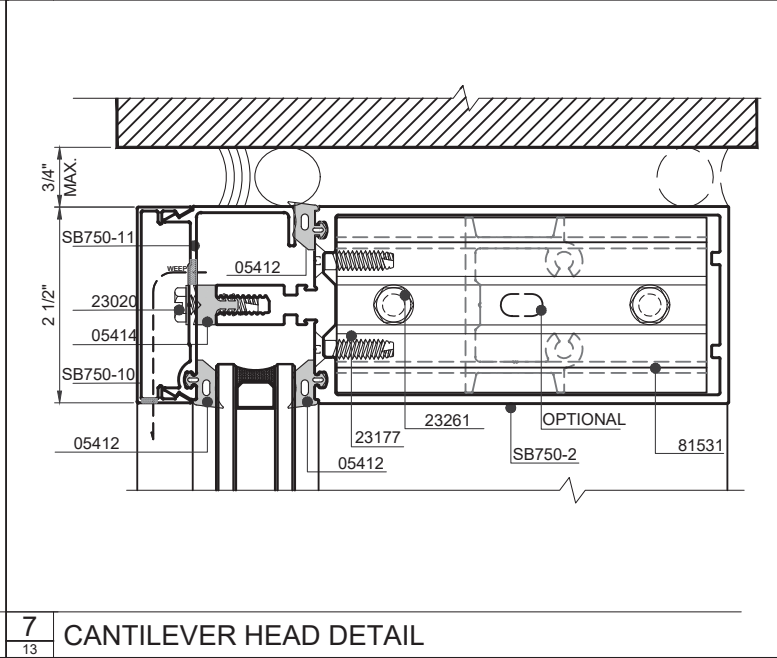
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13 SSG HORIZONTAL - OPTION



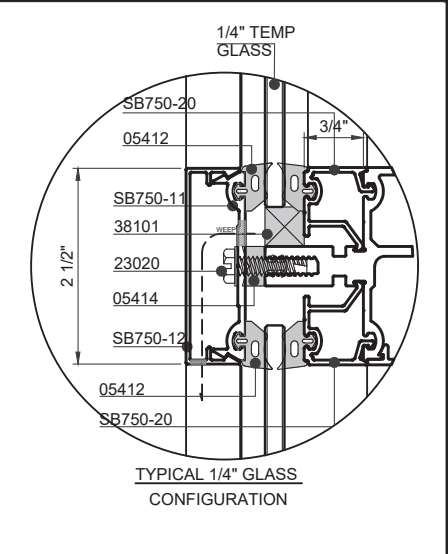
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13 OPEN-BACK HEAD DETAIL



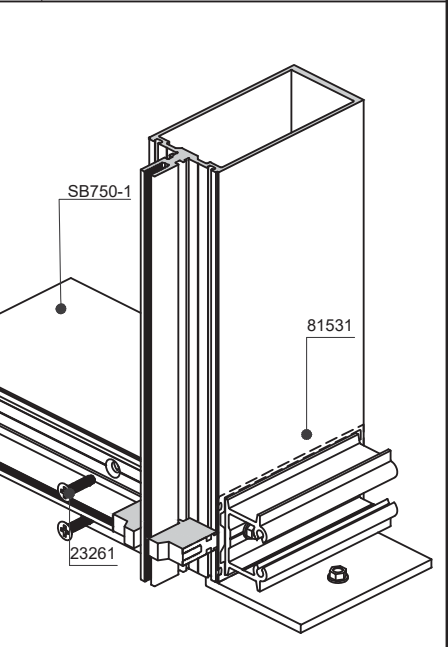
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13 OPEN-BACK SILL DETAIL



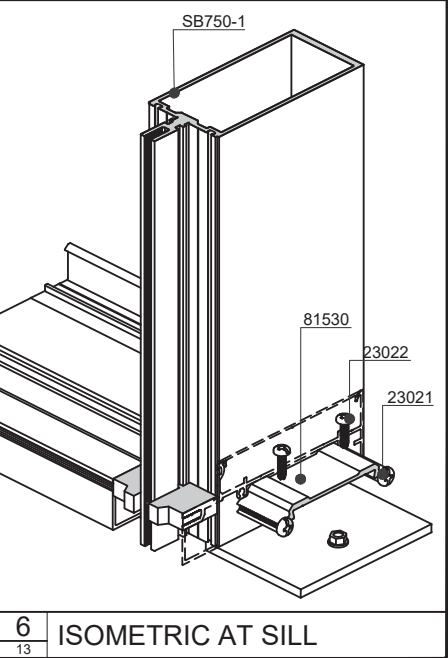
7
13 CANTILEVER HEAD DETAIL



-
13 1/4" GLASS OPTION



5
13 ISOMETRIC AT SILL



6
13 ISOMETRIC AT SILL



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PRODUCT:

SERIES SB750
CURTAIN WALL

REVN	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

ENGINEER:

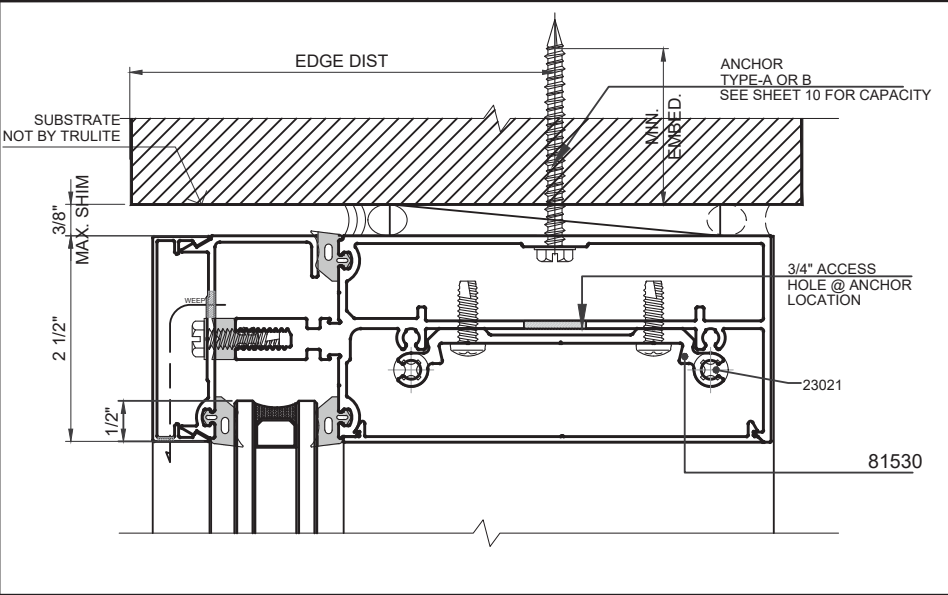
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GLAZING CONSULTANT
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Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

STAMP:

FLORIDA APPROVAL:

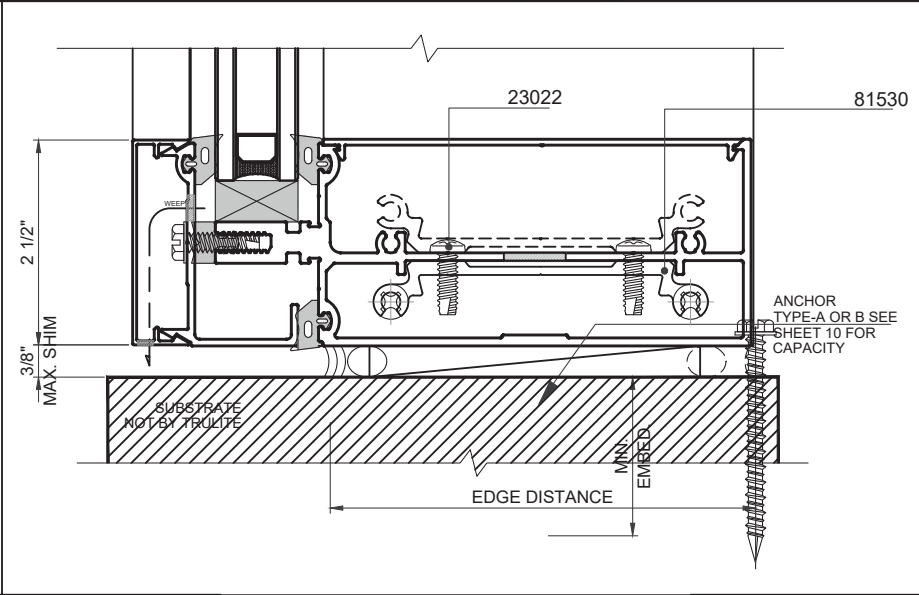
FL #17881

DRAWN: James	DRAWING No:
DATE: 3/12/21	13 OF 17
DWG: SB750PA	



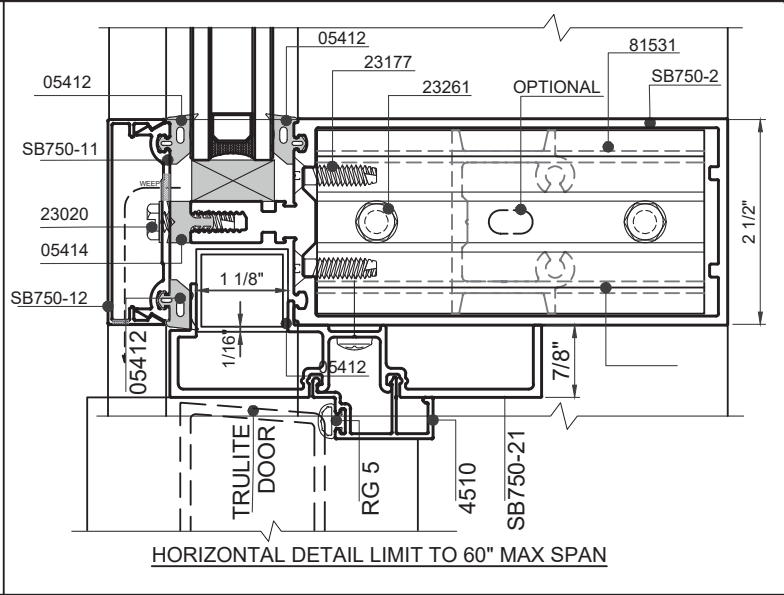
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14

TYPICAL HEAD/SILL ANCHOR DETAIL



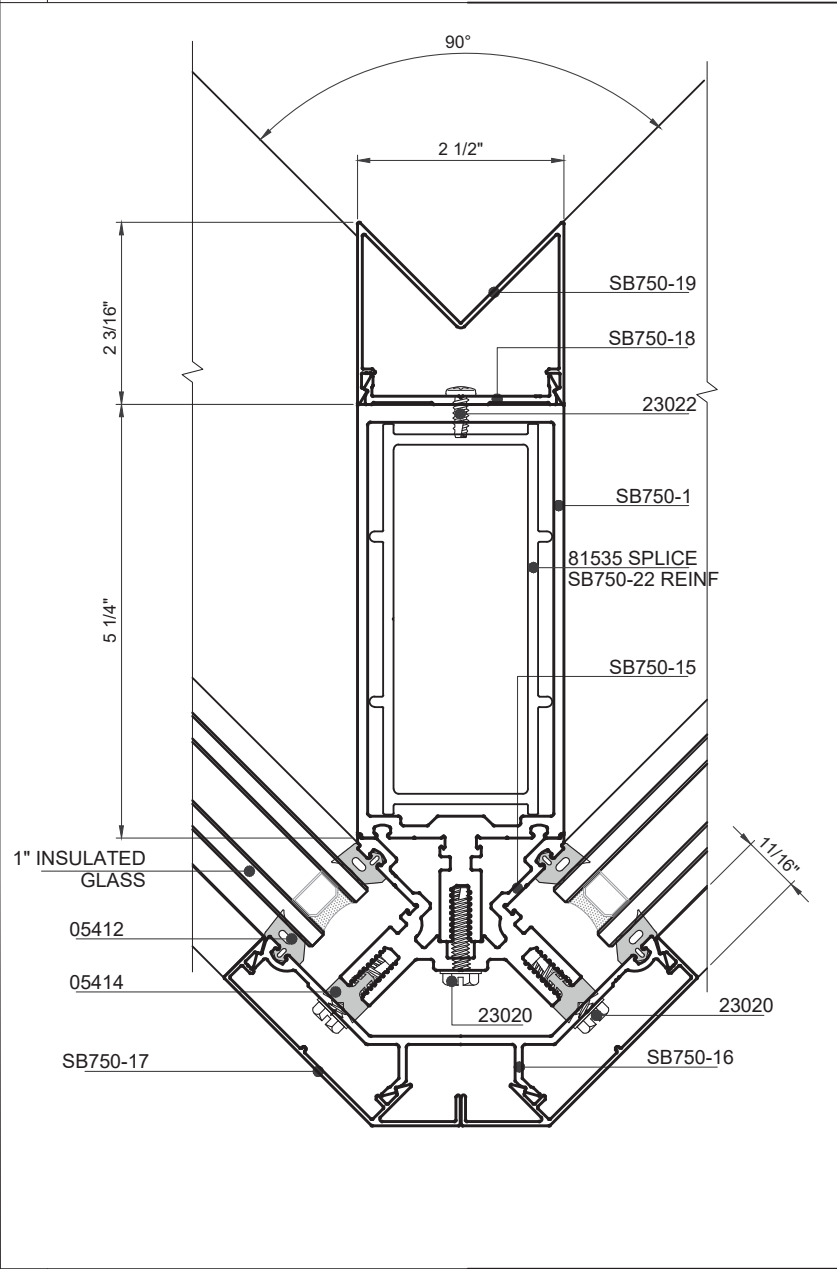
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TYPICAL HEAD/SILL ANCHOR DETAIL



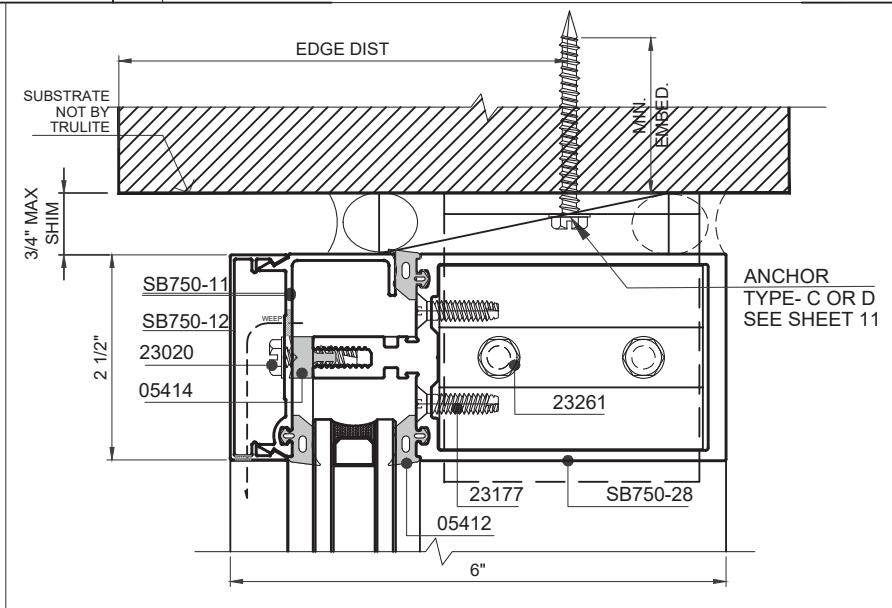
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14

HORIZONTAL



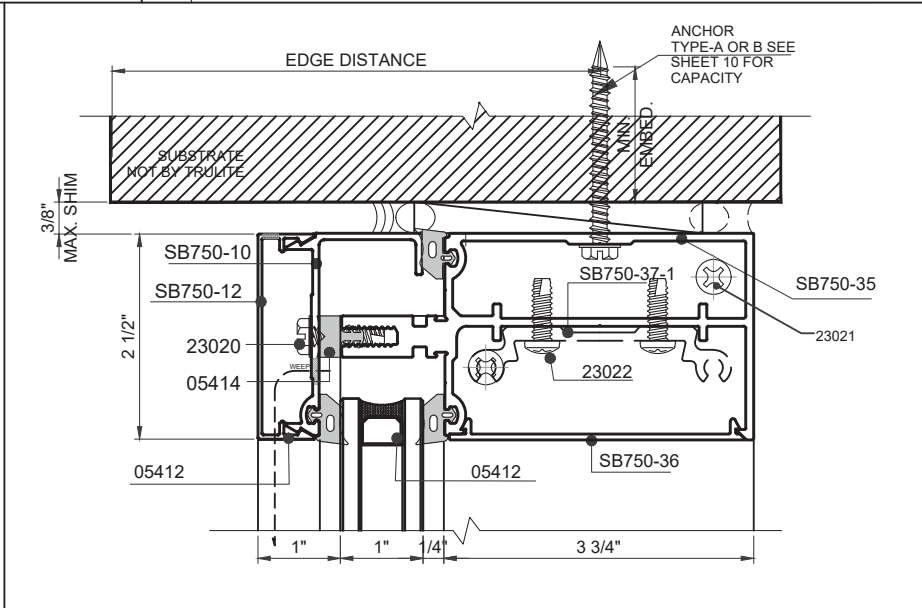
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14

90° CORNER-OPTIONAL 3-PIECE ASSEMBLY



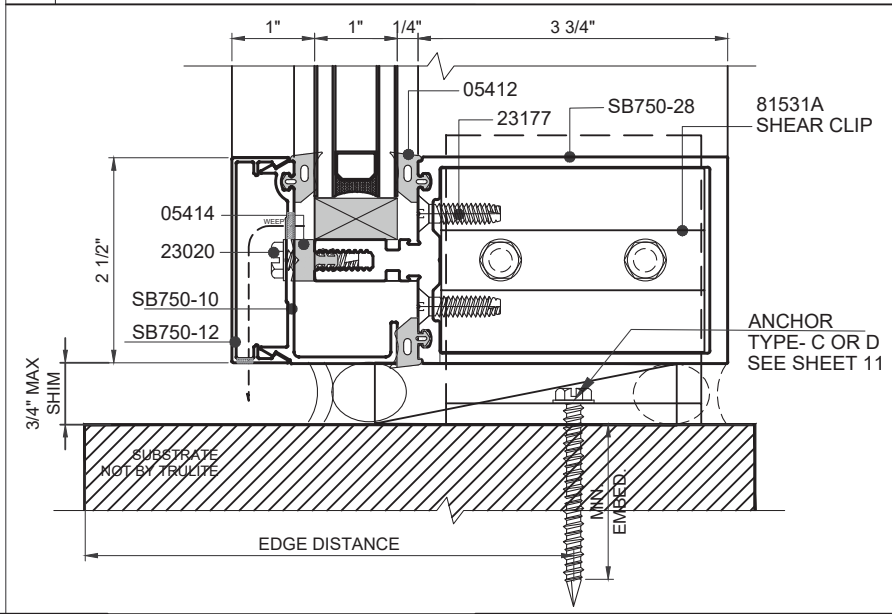
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HEAD DETAIL



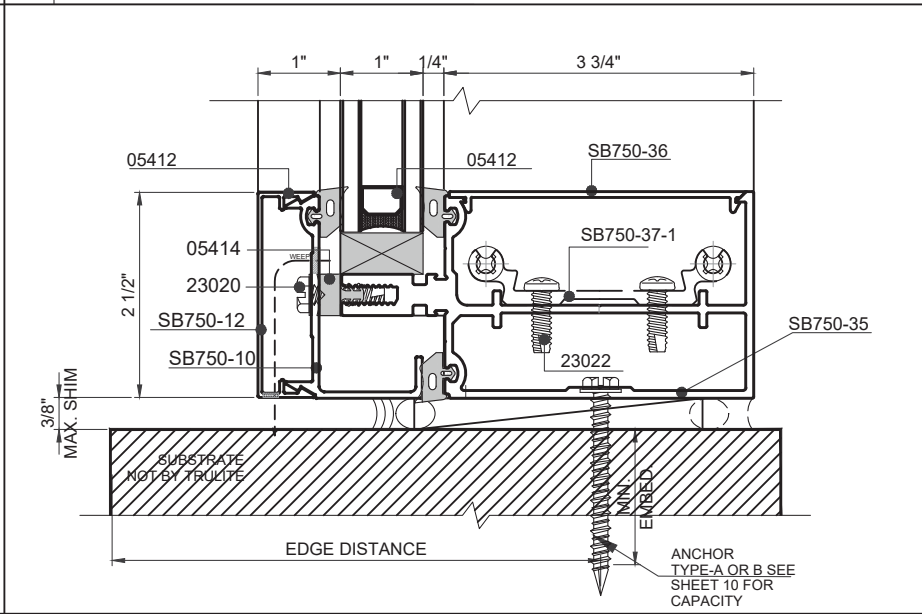
4
14

HEAD OPTION



5
14

SILL DETAIL



5
14

SILL OPTION



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PRODUCT:

SERIES SB750
CURTAIN WALL

REVN	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

ENGINEER:

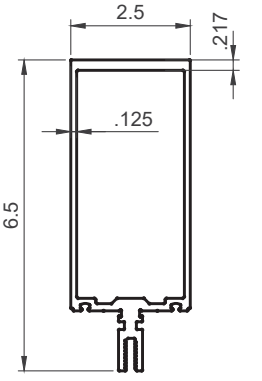
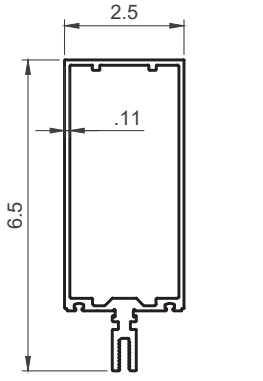
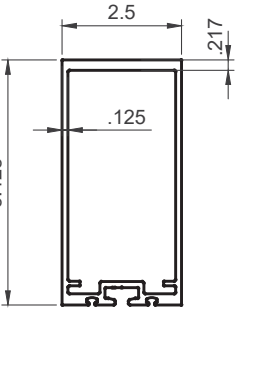
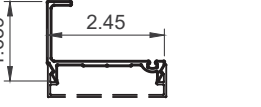
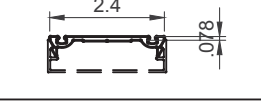
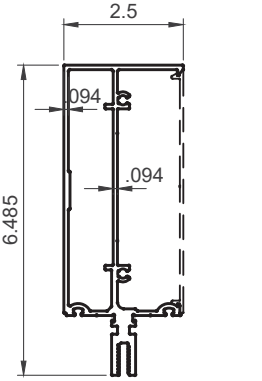
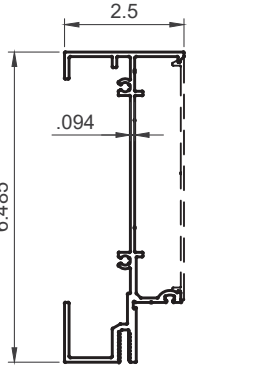
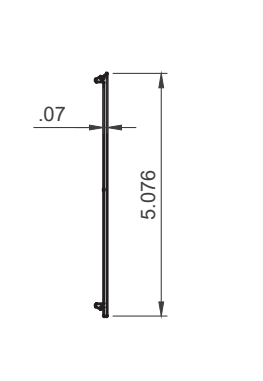
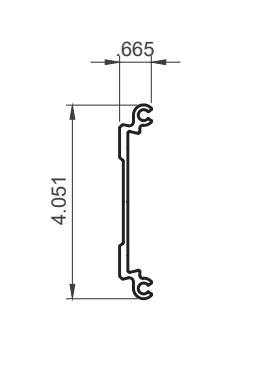
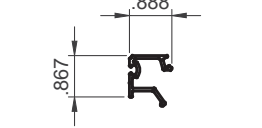
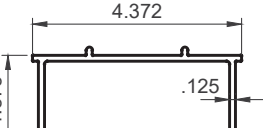
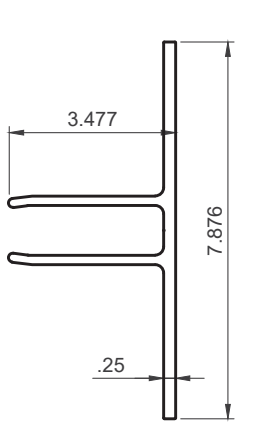
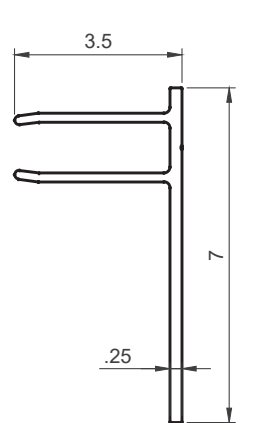
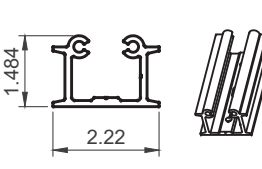
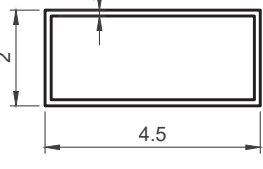
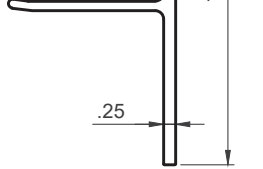
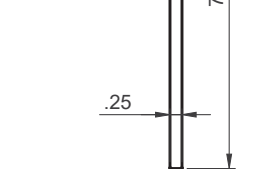
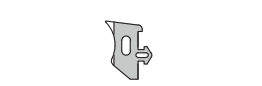


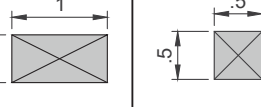



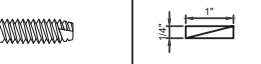

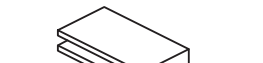
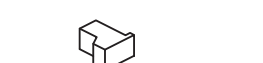

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FLORIDA APPROVAL:

FL #17881

DRAWN: James	DRAWING No:
DATE: 3/12/21	14 OF 17
DWG: SB750PA	

			 [7] SB750-10
[1] SB750-1	[2] SB750-2	[3] SB750-3	 [8] SB750-11
			 [9] SB750-12
[4] SB750-7	[5] SB750-8	[6] SB750-9	[12] 81530
			
[10] SB750-20	[11] SB750-22 / 81535		
			
[13] 81531	[14] 81537	[15] 81591	[16] 81590
			 [24] 38001
[21] 05412	[22] 05414	[23] 38534	[25] 38101
			 [34] 23177
[31] 23020	[32] 23021	[33] 23022	[26] H62B
			 [43] ED750-2
[35] 23261	[41] HB750-1	[42] ED750-1	

SB750 BILL OF MATERIALS				
Item	Part Name	Description	Material	Supplier
1	SB750-1	Standard Mullion	6063-T6	Bonnell
2	SB750-2	Light Mullion	6063-T6	Bonnell
3	SB750-3	SSG Vertical Mullion	6063-T6	Bonnell
4	SB750-7	Horizontal Mullion	6063-T6	Bonnell
5	SB750-8	Open Back Head / Sill Horizontal	6063-T6	Bonnell
6	SB750-9	Flat Filler (For SB750-7 & 8)	6063-T6	Bonnell
7	SB750-11	Pressure Bar	6063-T6	Bonnell
8	SB750-10	Perimeter Pressure Bar	6063-T6	Bonnell
9	SB750-12	Cover Cap	6063-T6	Bonnell
10	SB750-20	9/16" Glazing Adaptor	6063-T6	Bonnell
11	SB750-22/ 81535	Splice Sleeve/Reinforcement	6063-T6	Bonnell
12	81530	Shear Clip (For SB750-7 & 8)	6063-T6	Bonnell
13	81531	Shear Clip (For SB750- 1 & 2)	6063-T6	Bonnell
14	81537	Splice Sleeve/Reinforcement	6063-T6	Bonnell
15	81591	"T"-Anchor @ Interm. Ver Mullion	6063-T6	Bonnell
16	91590	"F"-Anchor @ Jamb Mullion	6063-T6	Bonnell
17	82531	Shear clip for SB 750-3	6063-T6	Bonnell
21	05412	Glazing Gasket	EPDM	Tremco/GRP
22	05414	Pressure Bar Gasket	EPDM	Tremco/GRP
23	38534	SSG Backing Gasket	EPDM	Tremco/GRP
24	38001	Setting Block for 1" Glazing @ $\frac{1}{8}$ " point	EPDM	Tremco/GRP
25	38101	Setting Block for 1/4" Glazing @ $\frac{1}{8}$ " point	EPDM	Tremco/GRP
26	H62B	Setting Block for 1" Glazing @ $\frac{1}{8}$ " point	EPDM	Trem co/GRP
31	23020	1/4-20 x 7/8" HWH-23 M/S 10" O.C. MAX	Zinc Coated Steel	Alloy Fastener
32	23021	#12-14 X 2" PPH-23 M/S	Zinc Coated Steel	Alloy Fastener
33	23022	1/4-20 X 3/4" PPH-23 M/S	Zinc Coated Steel	Alloy Fastener
34	23177	#14 X 1 FHP-23 M/S	S/S 18-8	Alloy Fastener
35	23261	1/4-20 X 5/8 HWH 9 (GRADE 2)	Zinc Coated Steel	Alloy Fastener
41	HB750-1	Horizontal Bridge @ SSG	Foam	Glazing Rubber
42	ED750-1	End Dam for 1/4" Glazing	Foam	Glazing Rubber
43	ED750-2	End Dam for 1" Glazing	Foam	Glazing Rubber



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PRODUCT:

SERIES SB750
CURTAIN WALL

REVN	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

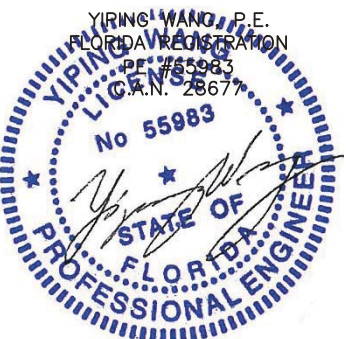
ENGINEER:



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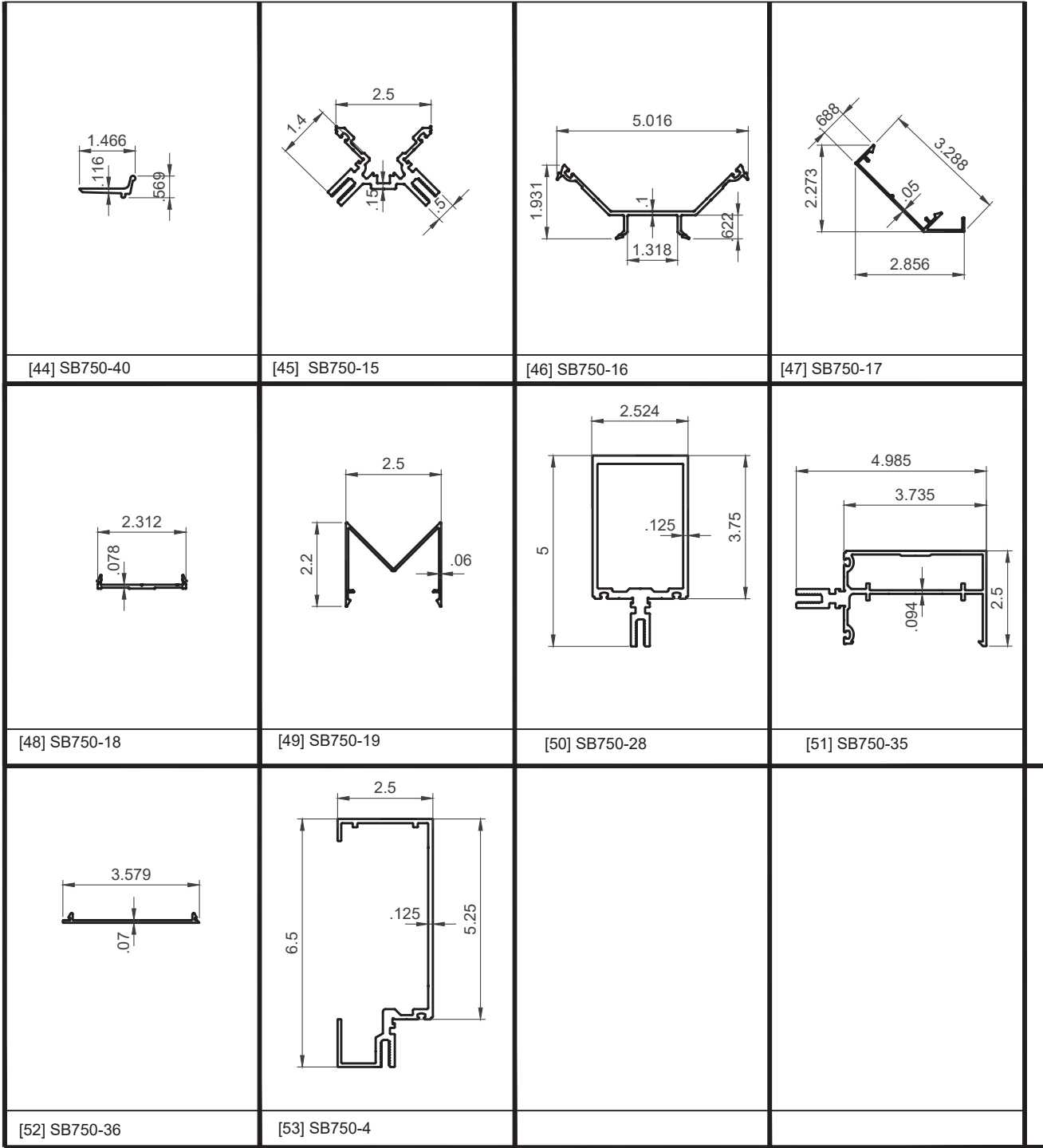
YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.E.N. 28677

August 01st, 2023

FLORIDA APPROVAL:

FL #17881

DRAWN: James	DRAWING No:
DATE: 3/12/21	15 OF 17
DWG: SB750PA	



SB750 BILL OF MATERIALS

Item	Part Name	Description	Material	Supplier
44	SB750-40	SSG Setting chair 5" long	6063-T6	Bonnell
45	SB750-15	90° Corner adapter	6063-T6	Bonnell
46	SB750-16	90° Corner pressure bar	6063-T6	Bonnell
47	SB750-17	90° Cover cap	6063-T6	Bonnell
48	SB750-18	90° Corner mullion extender clip	6063-T6	Bonnell
49	SB750-19	90° Corner mullion extender	6063-T6	Bonnell
50	SB750-28	Optional back member 3 3/4" deep	6063-T6	Bonnell
51	SB750-35	Horizontal Mullion	6063-T6	Bonnell
52	SB750-36	Flat Filler (For SB750-35)	6063-T6	Bonnell
53	SB750-4	Open back jamb	6063-T6	Bonnell
54	01531A	Shear clip for SB 750 - 28	6063-T6	Bonnell



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PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

SERIES SB750
CURTAIN WALL

REV#	DATE/REMARKS
REV. 3	08/02/23 2023 FBC UPDATE

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

STAMP:



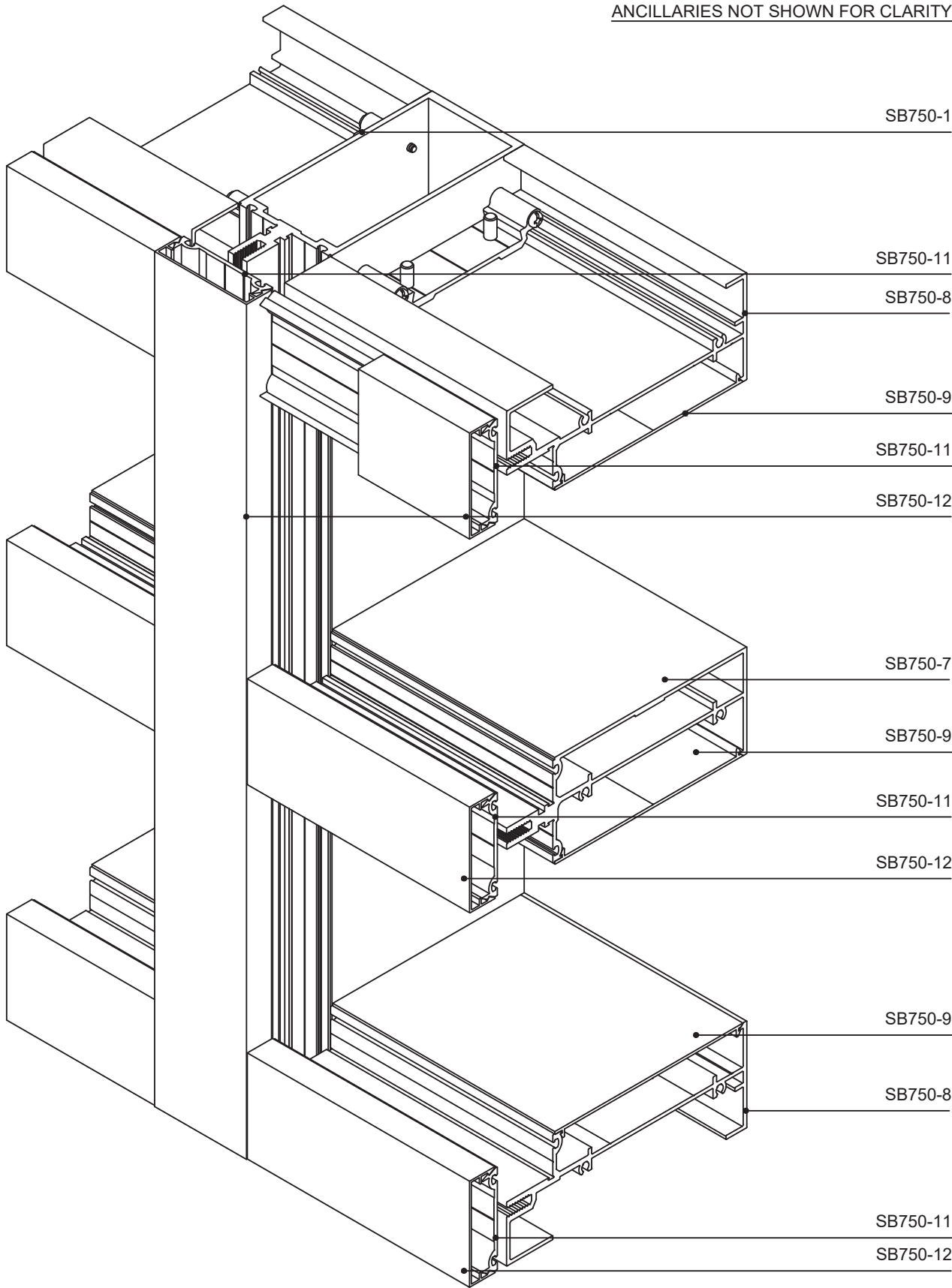
August 01st, 2023

FLORIDA APPROVAL:

FL #17881

DRAWN: James	DRAWING No:
DATE: 3/12/21	16 OF 17
DWG: SB750PA	

ANCILLARIES NOT SHOWN FOR CLARITY



SB750 CURTAINWALL SYSTEM



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PRODUCT:

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Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
mcy@mcyengineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.E.N. 28677

August 01st, 2023

FLORIDA APPROVAL:

FL #17881

DRAWN: James	DRAWING No:
DATE: 3/12/21	17 OF 17
DWG: SB750PA	