

TYPICAL CURTAINWALL ELEVATION



TYPICAL SINGLE PANEL ELEVATION

DESIGN PRESSURE RATING:

WATER INFILTRATION NOTE:

WATER RESISTANCE PER ASTM E331= 15 P.S.F

STEP ①: USE THE GLASS LOADING TABLES TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.

STEP ③: THE MINIMUM VALUE BETWEEN STEP ① AND STEP ② WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE CURTAIN WALL SYSTEM.



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RELIANCE™ TC CURTAINWALL

FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#17691.5)

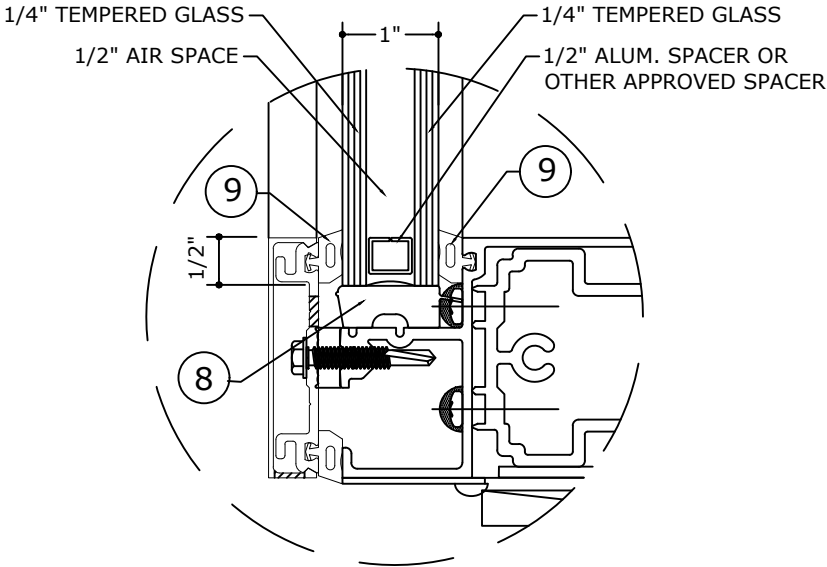
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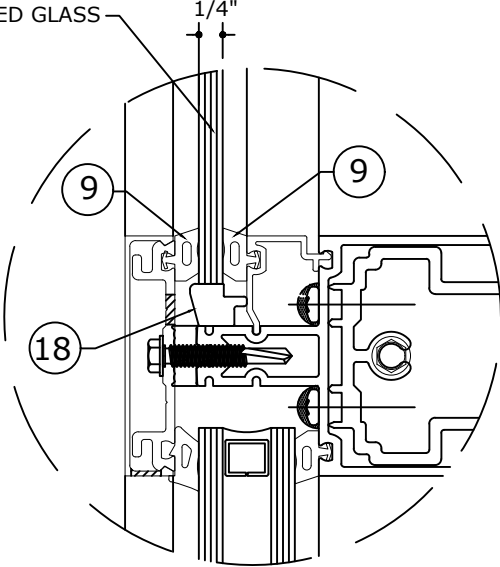
SCALE: NTS UNLESS NOTED

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GLASS TYPES



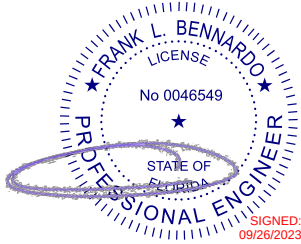
GLASS TYPE **G1**
GLAZING DETAIL
N.T.S.
GLASS RATING:
NON IMPACT



GLASS TYPE **G2**
GLAZING DETAIL
N.T.S.
GLASS RATING:
NON IMPACT

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

SEPTEMBER 26, 2023



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GLASS LOADING TABLES

GLASS TYPE		
G1 G2		
MAX. D.L.O WIDTH (in)	MAX. D.L.O HEIGHT (in)	ALLOWABLE PRESSURE (P.S.F)
24	72	+ / - 40
30	60	+ / - 40
36	58	+ / - 40

NOTE: D.L.O. WIDTH AND HEIGHT DIMENSIONS CAN BE REVERSED.

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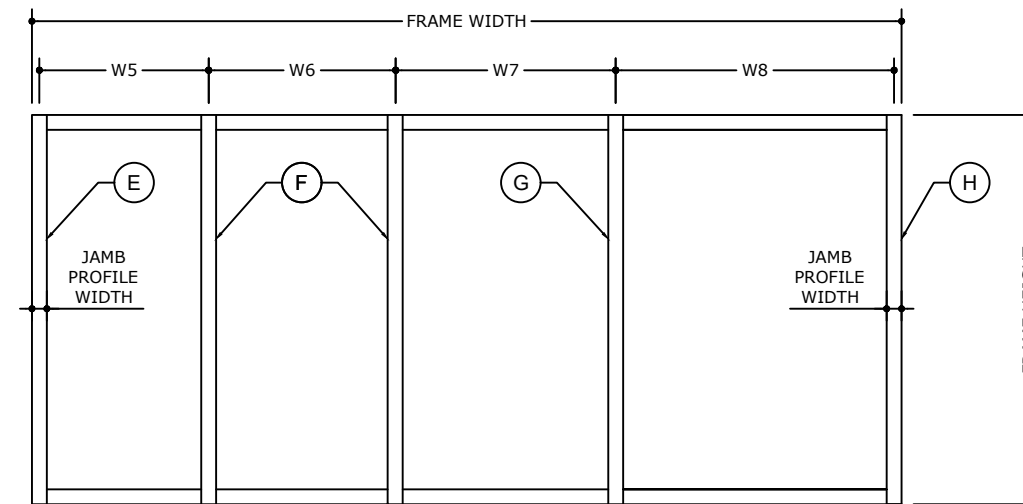
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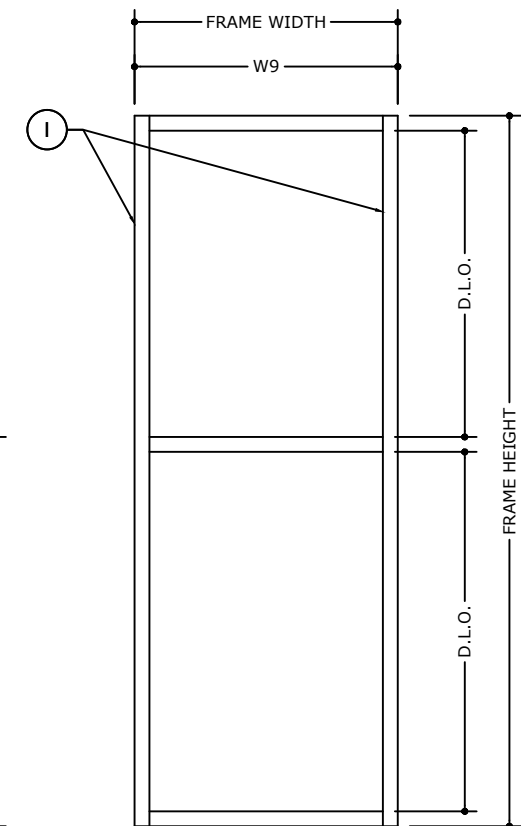
Technical drawing of a four-panel window frame. The drawing includes the following labels and dimensions:

- FRAME WIDTH**: Dimension across the top of the frame.
- W1, W2, W3, W4**: Horizontal dimensions defining the width of the four panels.
- JAMB PROFILE WIDTH**: Dimension for the width of the vertical frame members (jamb).
- D.L.O.**: Dimension Line Offset, indicated on the right side of the drawing.
- FRAME HEIGHT**: Dimension across the right side of the frame.
- Labels A, B, C, D**: Circled letters indicating specific points or components on the frame.
- Diagonal Dashed Lines**: Located in the bottom right panel, indicating a structural or assembly detail.

A	E	I	JAMB MULLION
B	F		STANDARD MULLION
C	G		DOOR JAMB INTERMEDIATE MULLION
D	H		DOOR JAMB MULLION



TRIBUTARY WIDTH H = $\frac{W8}{4}$ + 1/2" JAMB PROFILE WIDTH
(FOR JAMB MULLION)



(FOR STANDARD JAMB MULLION)

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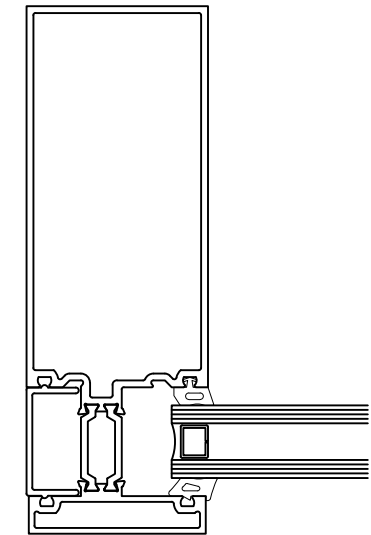
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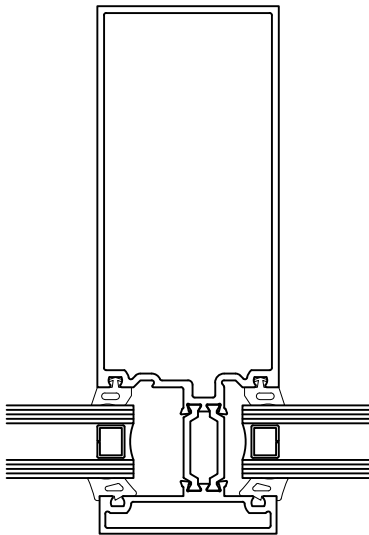
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RELIANCE TC CURTAIN WALL MULLION



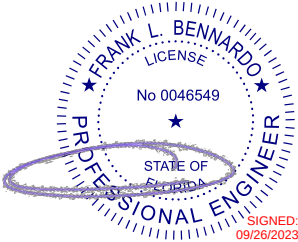
J1



M1

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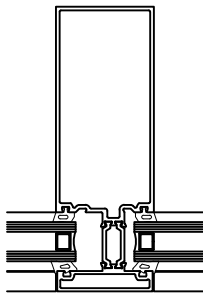
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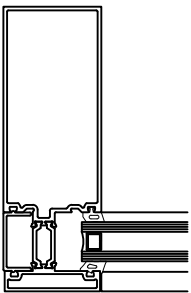
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR SINGLE SPAN MULLIONS

MULLION LOADING CHART		MULLION TYPE	
		M1	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F	(-) P.S.F
96	24	40	40
	30	40	40
	36	40	40
	42	40	40
	48	40	40
	54	40	40
	60	40	40
	66	40	40
	72	40	40
108	24	40	40
	30	40	40
	36	40	40
	42	40	40
	48	40	40
	54	40	40
	60	40	40
116	24	40	40
	30	40	40
	36	40	40
	42	40	40
	48	40	40
	58 3/4	40	40
	60	36	36

JAMB MULLION LOADING CHART		MULLION TYPE	
		J1	
FRAME HEIGHT (in)	TRIBUTARY WIDTH (in)	(+) P.S.F	(-) P.S.F
60	24	40	40
	32	40	40
	36	40	40
	42	40	40
	48	40	40
	54	40	40
72	24	40	40
	32	40	40
	36	40	40
	42	40	40
84	24	40	40
	32	40	40
	36	40	40
96	24	40	40
	32	40	40
	36	40	40
108	24	40	40
	32	40	40
116	24	40	40
	32	40	40



M1
DETAIL 4.1



J1
DETAIL 4

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HEAD DETAIL



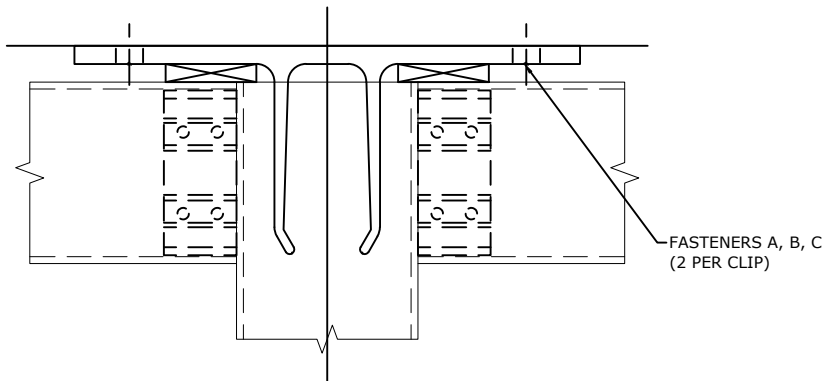
- A - $\frac{1}{2}$ " $\emptyset$ DEWALT POWER STUD WEDGE EXPANSION ANCHOR INTO 3000 PSI CONCRETE, 1-5/8" MIN. EMBED. DEPTH & 2-1/2" MIN EDGE DISTANCE
- B - $\frac{1}{2}$ " $\emptyset$ - 13 TAPFLEX WITH 3/4" HWH WITH SERRATIONS, GRADE 5 , INTO 1/8" MIN. A-36 STEEL, 16 GA MIN. STUD ASTM A-653 GRADE 33 STEEL OR 1/8" MIN. ALUMINUM 6063-T6 & 1 1/2" MIN. EDGE DISTANCE.
- C - $\frac{3}{8}$ " $\emptyset$ LAG SCREW WITH 3" MIN. EMBEDMENT INTO G=0.55" MIN. SPECIFIC GRAVITY WOOD SUBSTRATE WITH 1 1/2" MIN. EDGE DISTANCE. LIMITED TO ± 40 P.S.F.



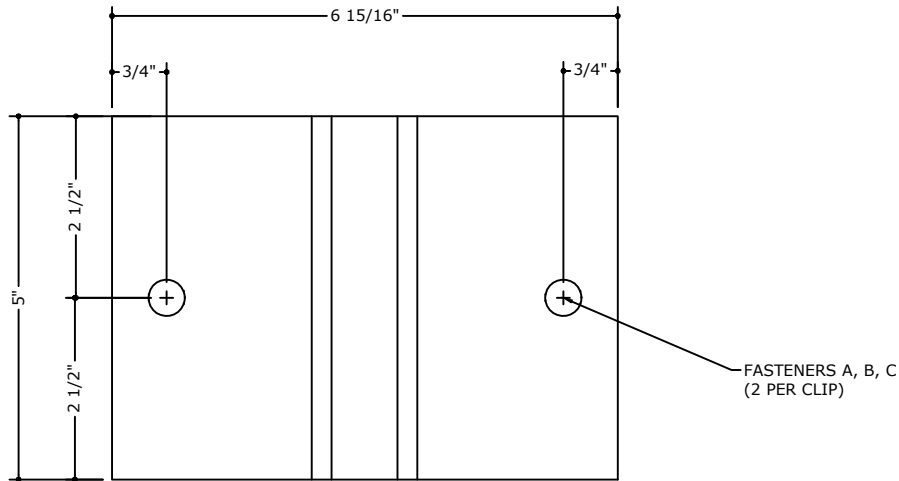
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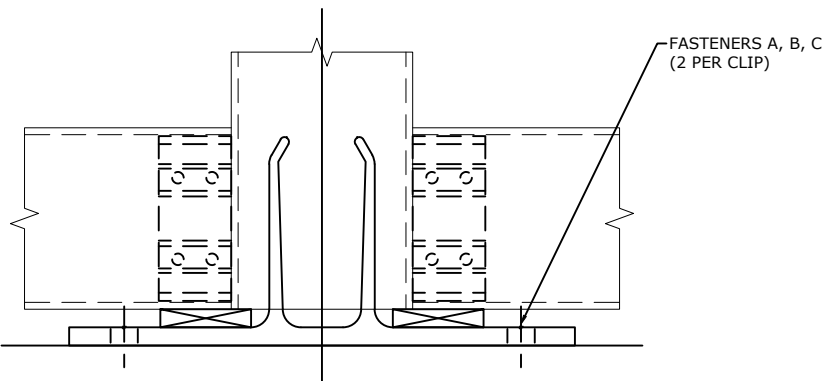
INTERMEDIATE MULLION HEAD/SILL ANCHORAGE



HEAD DETAIL



T ANCHOR CLIP DETAIL



SILL DETAIL

FASTENER TYPES

- A - 1/2" Ø DEWALT POWER STUD WEDGE EXPANSION ANCHOR INTO 3000 PSI CONCRETE, 1-5/8" MIN. EMBED. DEPTH & 2-1/2" MIN EDGE DISTANCE
- B - 1/2" Ø - 13 TAPFLEX WITH 3/4" HWH WITH SERRATIONS, GRADE 5 , INTO 1/8" MIN. A-36 STEEL, 16 GA MIN. STUD ASTM A-653 GRADE 33 STEEL OR 1/8" MIN. ALUMINUM 6063-T6 & 1 1/2" MIN. EDGE DISTANCE.
- C - 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. LIMITED TO ±40 P.S.F.

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PE# 0046549 CA# 9885

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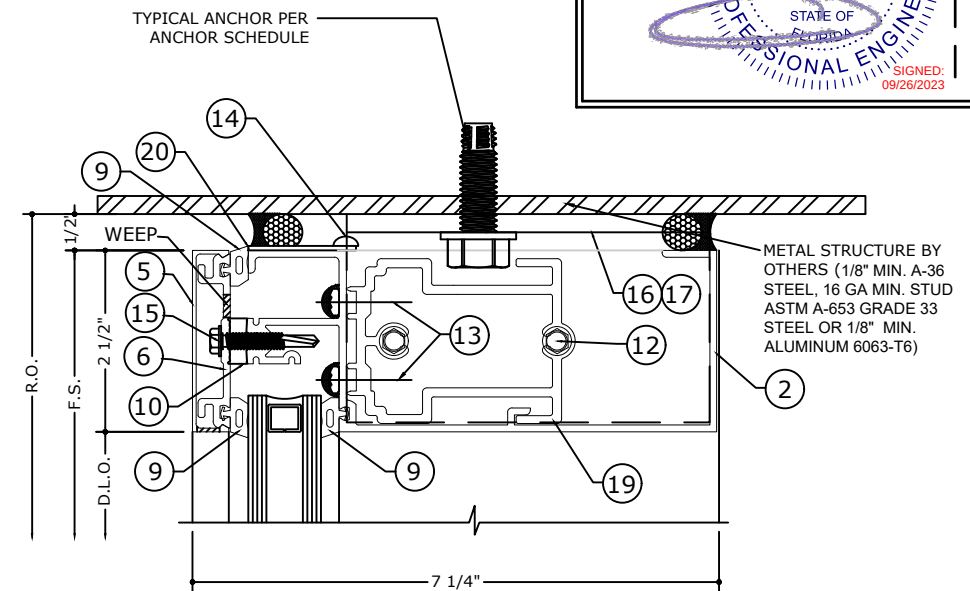
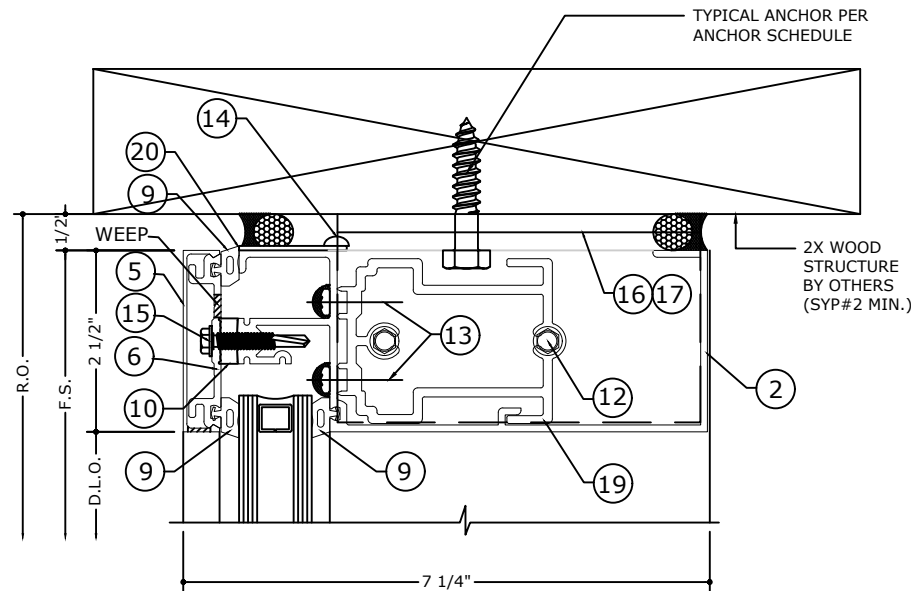
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1.1 HEAD DETAIL

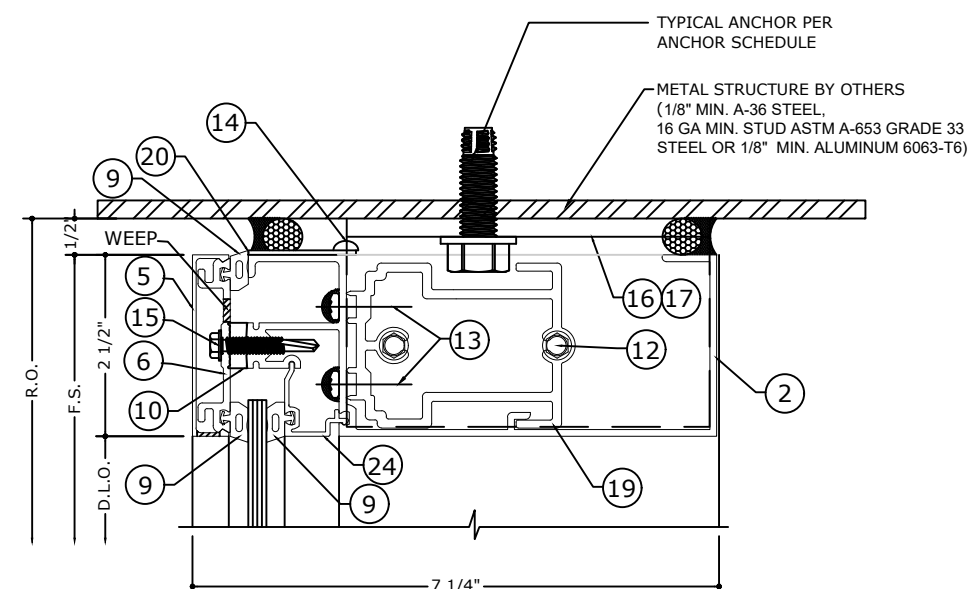
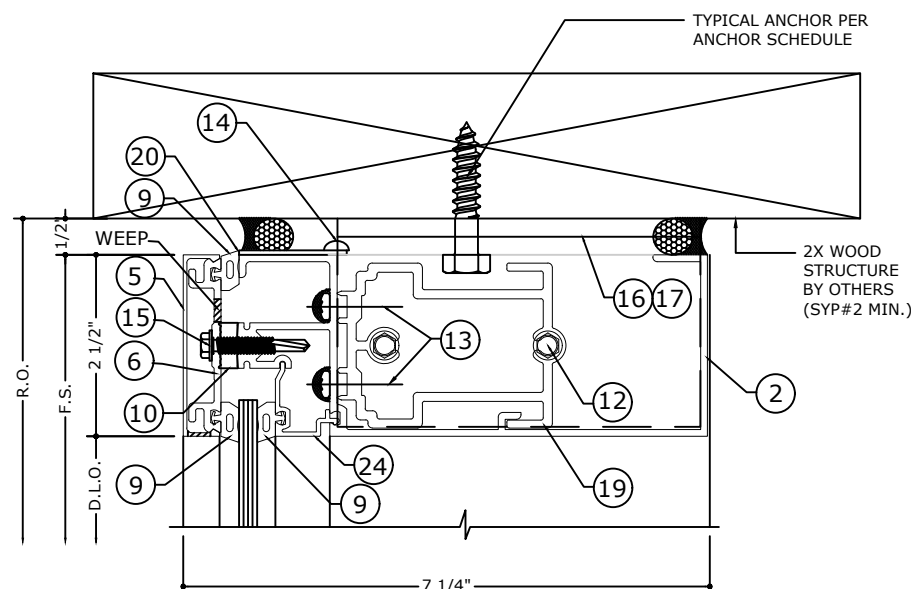


1 HEAD DETAIL

SCALE: 6" = 1'-0"

1.1 HEAD DETAIL

1.2 HEAD DETAIL



1.3 HEAD DETAIL

1.4 HEAD DETAIL

1.5 HEAD DETAIL

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

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2 SILL DETAIL

SCALE: 6" = 1'-0"



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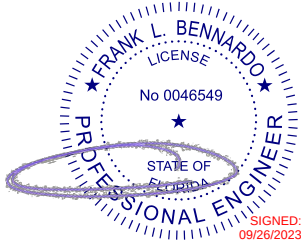
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HORIZONTAL DETAILS

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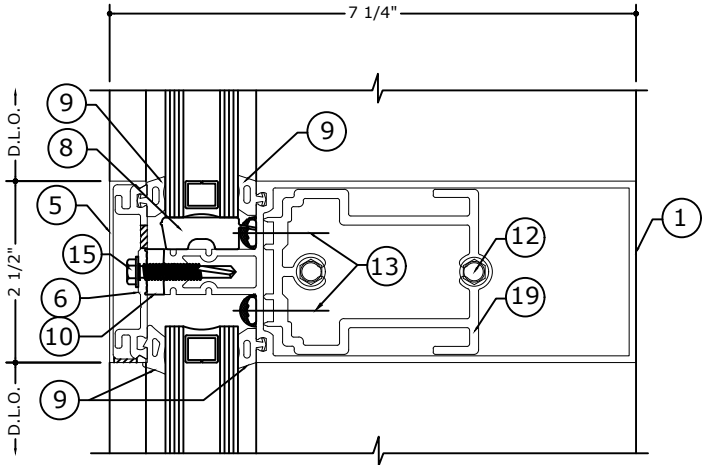
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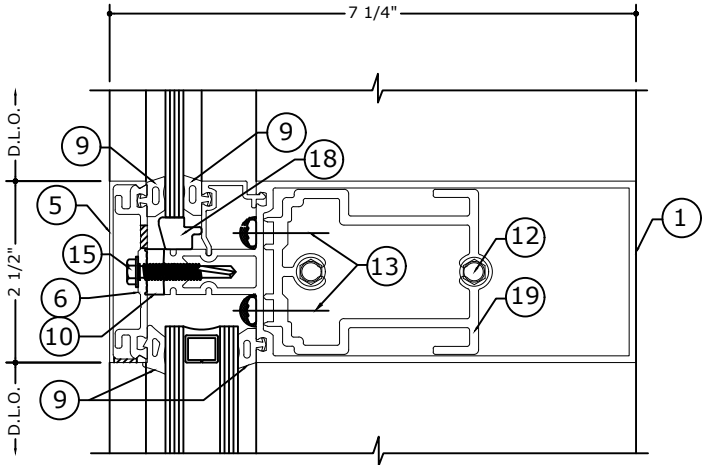
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3 INTERMEDIATE
HORIZONTAL DETAIL
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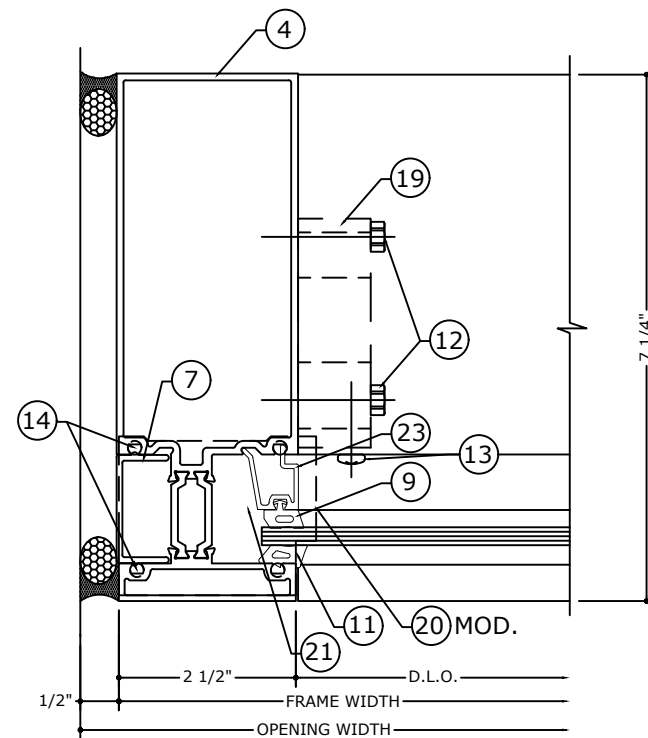


3.1 INTERMEDIATE
HORIZONTAL DETAIL
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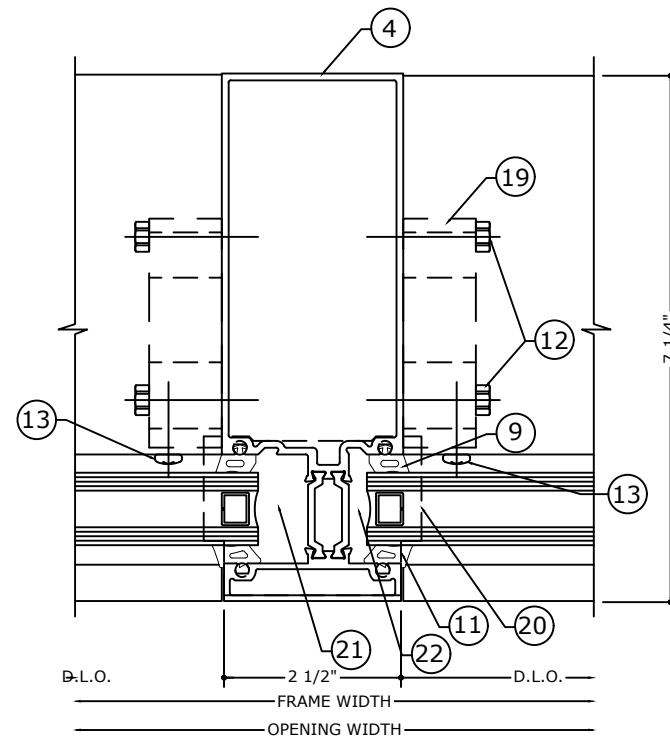
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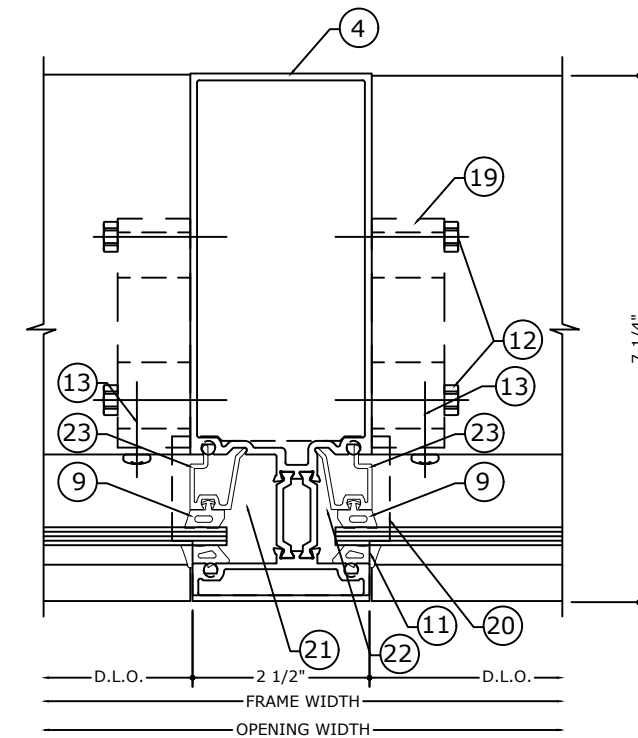
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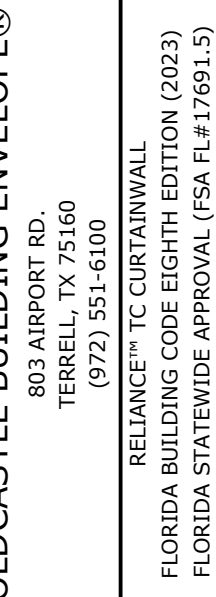
4.1 JAMB DETAIL - J1
SCALE: 6" = 1'-0"



5 VERTICAL DETAIL - M1
SCALE: 6" = 1'-0"



5.1 VERTICAL DETAIL - M1

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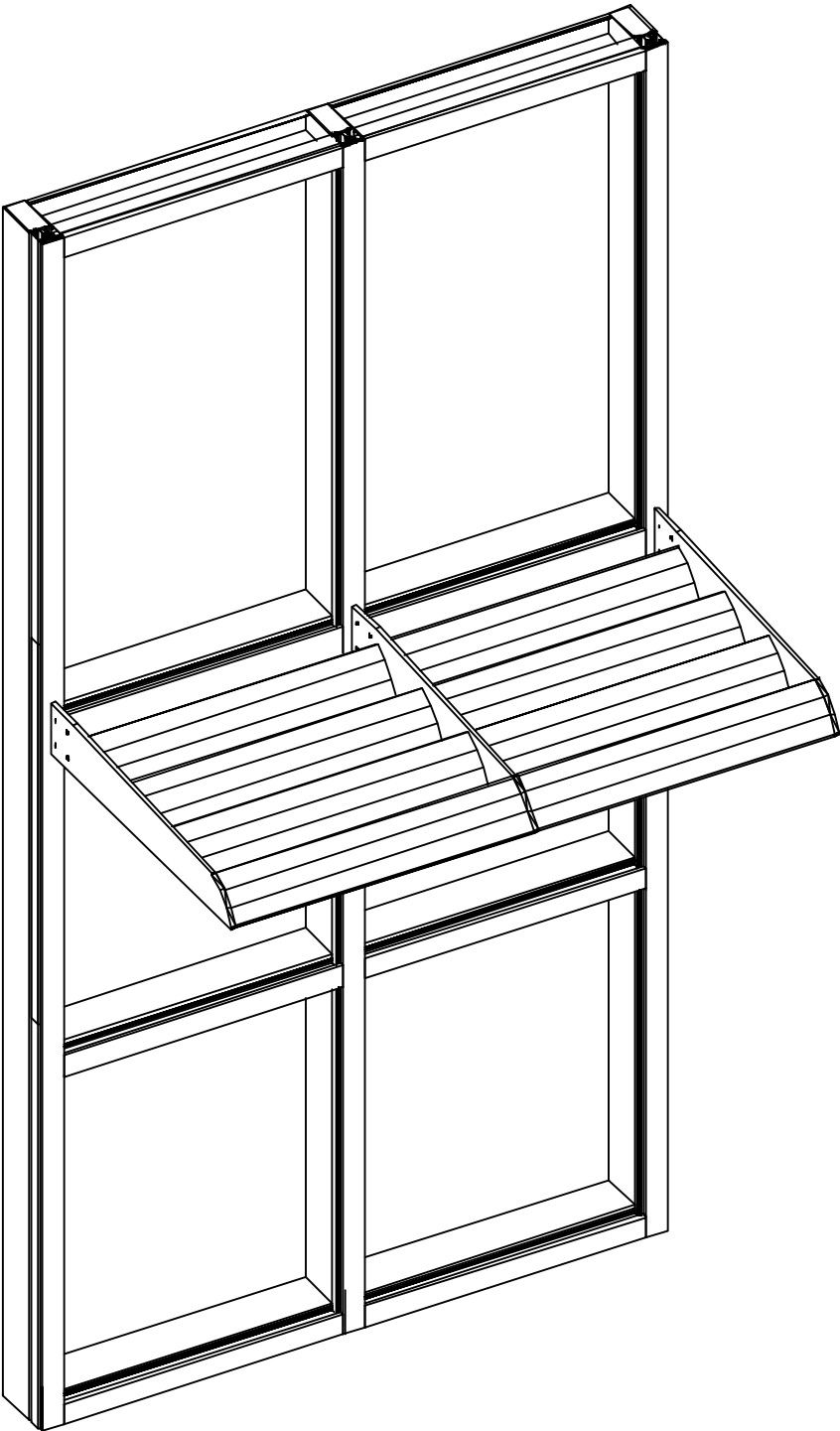
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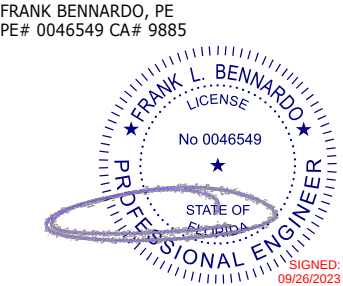
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SUNSHADE OPTION



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



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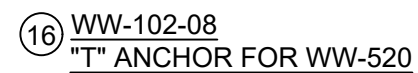
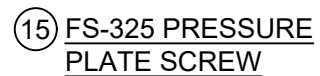
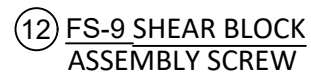
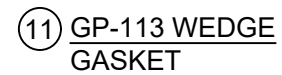
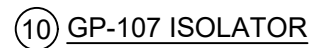
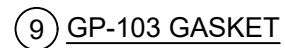
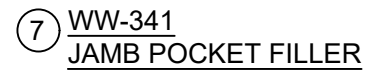
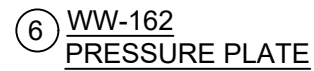
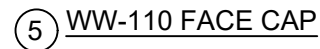
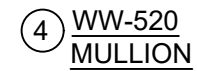
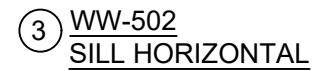
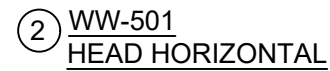
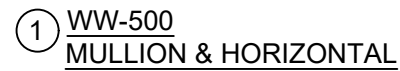
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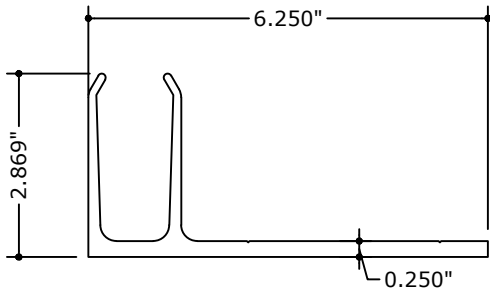
RELANCE™ TC CURTAINWALL
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL #17691.5)

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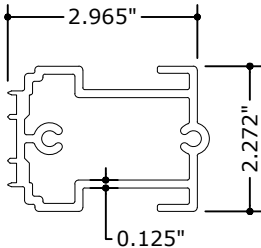
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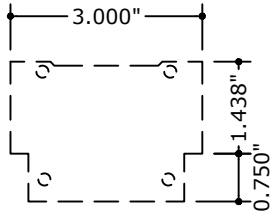
RELIANCE TC CURTAIN WALL SYSTEM COMPONENTS



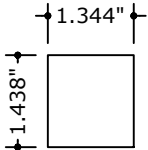
17 WW-103-05
"F" ANCHOR FOR WW-520



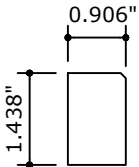
19 WW-181-01
SHEAR BLOCK



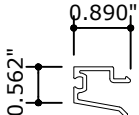
20 WW-343
MULLION END CAP



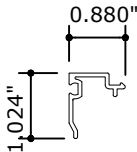
21 WW-364 ZONE PLUG DEEP
POCKET



22 WW-365 ZONE PLUG SHALLOW
POCKET

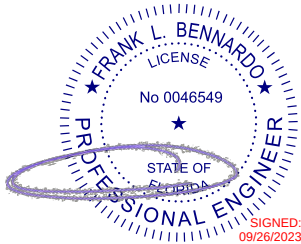


23 WW-145 GLAZING ADAPTOR



24 WW-130 GLAZING ADAPTOR

FRANK BENNARD, PE
PE# 0046549 CA# 9885



SEPTEMBER 26, 2023

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REMARKS	DRWN		CHKD		DATE	
	SQ	RS	SQ	RS	05/23/23	08/31/23
INIT ISSUE						
FBC 2023 UPDATE						

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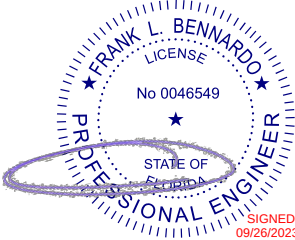
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BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL
1	WW-500	MULLION & HORIZONTAL	2.500" x 6.510" x .094	6063-T6 ALUMINUM
2	WW-501	HEAD HORIZONTAL	2.500" x 6.479" x .094"	6063-T6 ALUMINUM
3	WW-502	SILL HORIZONTAL	2.500" x 6.510" x .094"	6063-T6 ALUMINUM
4	WW-520	MULLION	2.500" x 7.269" x .094"	6063-T6 ALUMINUM
5	WW-110	FACE CAP	2.500" x 0.5" x .050"	6063-T5 ALUMINUM
6	WW-162	PRESSURE PLATE	2.401" x 0.442" x .094	6063-T6 ALUMINUM
7	WW-341	JAMB POCKET FILLER	.719" x 1.560" x .080"	RIGID PVC
8	GP-109	SETTING BLOCK	.438" x 1.296" x 4" LG.	EPDM 85 DUROMETER
9	GP-103	GASKET	.485" x .561"	EPDM 60 DUROMETER
10	GP-107	ISOLATOR GASKET	.626" x .264"	EPDM 70 DUROMETER
11	GP-113	WEDGE GASKET	.412" x .630"	EPDM 70 DUROMETER
12	FS-9	SHEAR BLOCK TO VERTICAL FASTENER	#14 X 1-1/2" SLOTTED HEX HEAD	STEEL
13	FS-115	HORIZONTAL TO SHEAR BLOCK	#10 X 1" PAN HEAD	STEEL
14	FS-320	END CAP TO MULLION FASTENER	#10 X 1/2" DRIVE PIN	STEEL
15	FS-325	PRESSURE PLATE FASTENER	#12-24 X 1.343" HWH DRILL FLEX	STEEL
16	WW-102-08	"T" ANCHOR FOR WW-520	2.869" x 6.968" x .250"	6063-T6 ALUMINUM
17	WW-103-05	"F" ANCHOR FOR WW-520	2.869" x 6.250" x .250"	6063-T6 ALUMINUM
18	GP-110	SETTING BLOCK	.438" x 0.591"	EPDM 85 DUROMETER
19	WW-181-01	SHEAR BLOCK	2.272" x 2.967" x 1.00" LG.	6063-T6 ALUMINUM
20	WW-343	MULL END CAP	2.213" x 3.00" x .062"	3003-H14
21	WW-364	ZONE PLUG DEEP POCKET	1.344" x .750" x 1.438"	ABS PLASTIC
22	WW-365	ZONE PLUG SHALLOW POCKET	.906" x .750" x 1.438"	ABS PLASTIC
23	WW-145	1/4" GLAZING ADAPTOR	.781" x .890" x .060"	6063-T5 ALUMINUM
24	WW-130	1/4" GLAZING ADAPTOR	1.024" x .880" x .060"	6063-T5 ALUMINUM

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



SIGNED:
09/26/2023

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