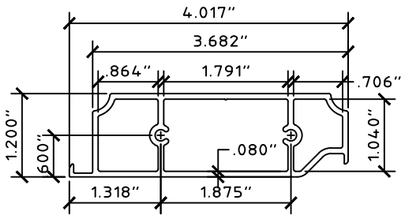
CROCI NORTH AMERICA

COLONIAL SHUTTER - PATENT #8126298

IMPACT RATED

FOR USE OUTSIDE OF AND WITHIN HVHZ

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.



1 MUNTIN
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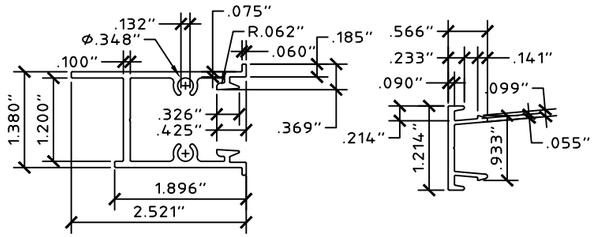

2 JAMB
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3 JAMB SNAP
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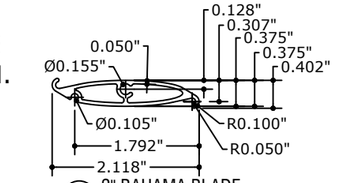
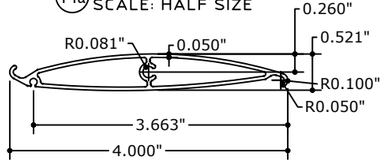


14a 2" BAHAMA BLADE
SCALE: HALF SIZE



14b 4" BAHAMA BLADE
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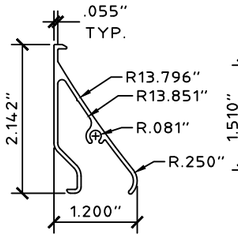
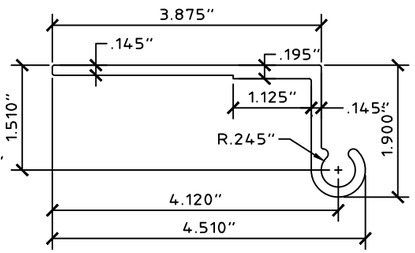
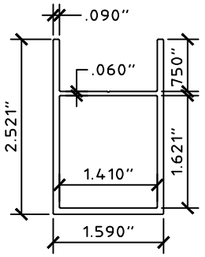


5 COLONIAL BLADE
SCALE: HALF SIZE



6 WALL HINGE
SCALE: HALF SIZE



7 HEADER / SILL
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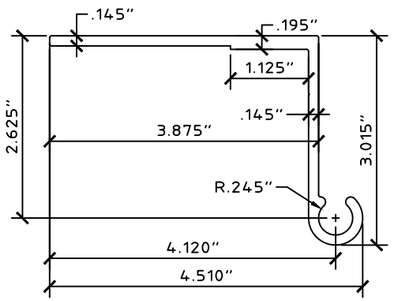

8 BUILD-OUT WALL HINGE
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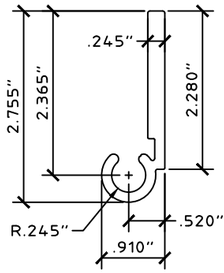
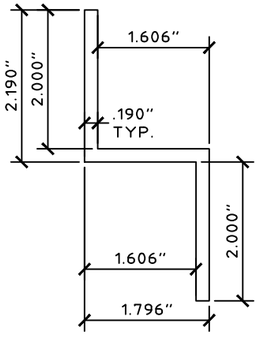
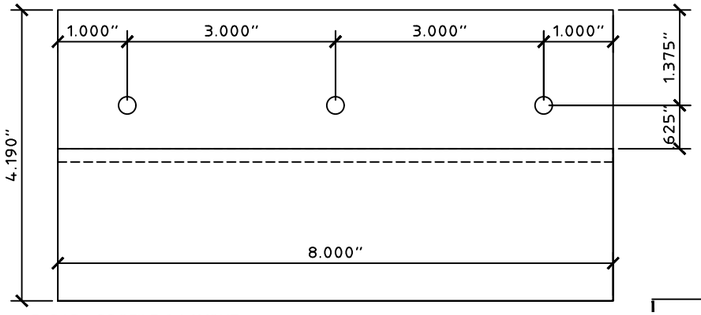


9 FLAT HINGE
SCALE: HALF SIZE





10 "Z" BAR - PROFILE & LAYOUT
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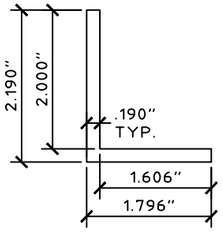

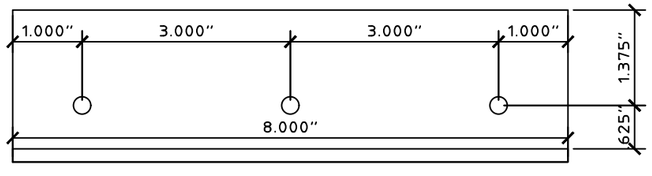

11 ANGLE
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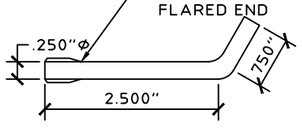
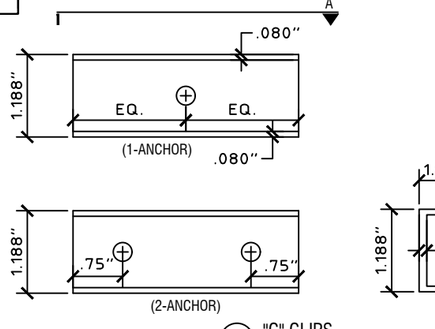
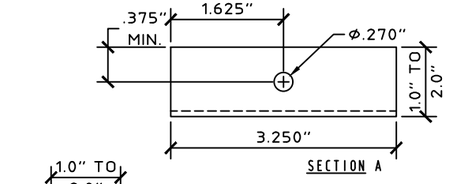
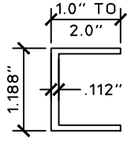


12 L-PIN - 1/4" Ø
SCALE : HALF SIZE







13 "C" CLIPS
SCALE : HALF SIZE

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT **ENGINEERINGEXPRESS.COM/QUOTE** FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

DESIGN PRESSURES (ASD)

MAXIMUM ALLOWABLE DESIGN PRESSURE
- IN CLOSED POSITION FOR ALL NON-SLIDING PANEL WITH TRACK CONFIGURATIONS, PROVIDING WIND LOAD & IMPACT RESISTANCE = **+69.3/-79.5 PSF**

MAXIMUM ALLOWABLE DESIGN PRESSURE
- IN CLOSED POSITION FOR ALL SLIDING PANEL TRACK CONFIGURATIONS = **+57.2/-66.2 PSF.**

MAXIMUM ALLOWABLE DESIGN PRESSURE
- IN OPEN POSITION = **+/- 28 PSF**

GENERAL NOTES:

1. THESE INSTALLATION INSTRUCTIONS ARE PART OF A PRODUCT APPROVAL EVALUATION AND SHALL ONLY BE USED IN CONJUNCTION WITH THE EVALUATION REPORT SUBMITTED FOR THE SAME PRODUCT APPROVAL.
2. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
3. THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LEVEL D LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE INSIDE THE HIGH VELOCITY HURRICANE ZONE, AND THE INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC). SEE EVALUATION FOR MORE INFORMATION.
4. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
5. TESTING WAS CONDUCTED IN ACCORDANCE WITH TAS 201/202/203 AND ASTM E1886/E1996/E330. SEE EVALUATION REPORT FOR MORE INFORMATION.
6. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
7. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THESE PRODUCTS. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD ANCHOR DESIGN.
8. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7, A DIRECTIONALITY FACTOR OF Kd =0.85 SHALL BE USED.
9. A DESIGN PROFESSIONAL SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
10. USE OF THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
11. THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
12. ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
13. EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED WITH THE FOLLOWING MINIMUM INFORMATION. UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.
14. ALL EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N., WITH A MINIMUM Fy OF 25 K.S.I.
15. ALL BOLTS AND WASHERS (EXCLUDING INSTALLATION) SHALL BE STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N. POP RIVETS SHALL BE 1/4"Ø OR 3/16"Ø 5052 ALUM. ALLOY.
16. SHUTTER ASSEMBLY MUST BE CLOSED AND SECURED AND SHALL NOT BE LEFT IN THE OPEN POSITION IN THE EVENT OF A WIND STORM EVENT.
17. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.
18. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
19. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
20. ANCHORS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
21. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION IN.C, AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES.
22. ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
23. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO EXISTING STRUCTURE.
24. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
25. ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
26. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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PE# 0046549 CA# 9885

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REMARKS	DRWN	CHKD	DATE
2020 FBC (20-29009)	CCB	RWN	7/01/22
2023 FBC	MLD	CCB	10/05/23

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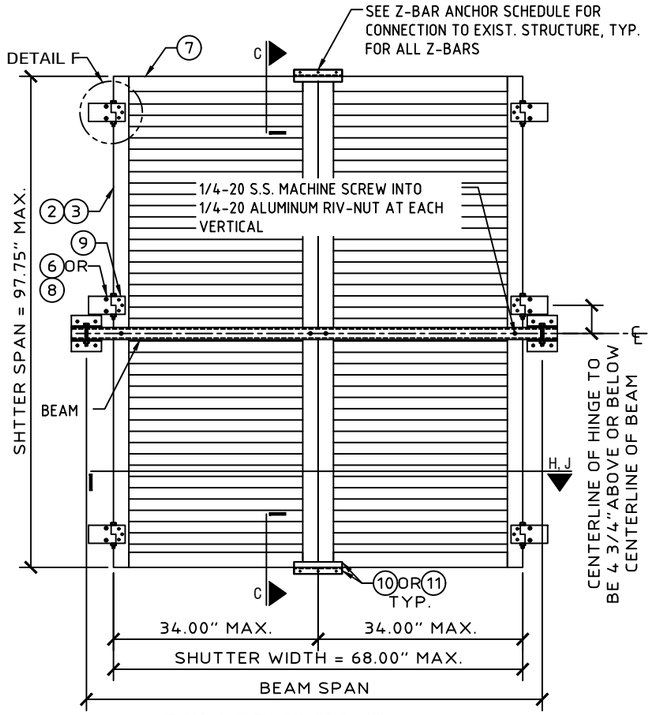
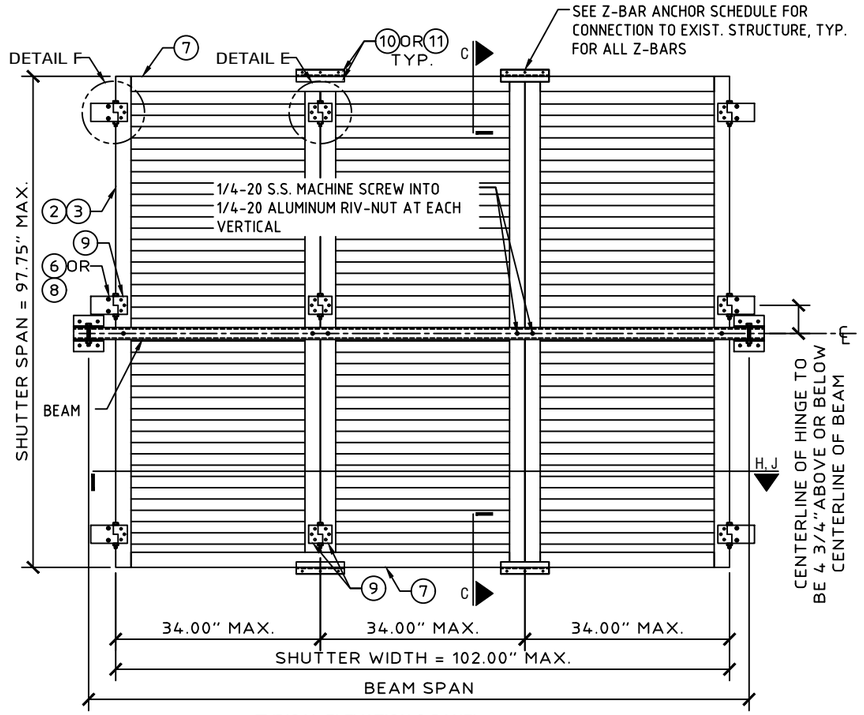


A TYPICAL ELEVATION 2 PANEL
SCALE: 1/2" = 1'-0"



B TYPICAL ELEVATION 3 PANEL
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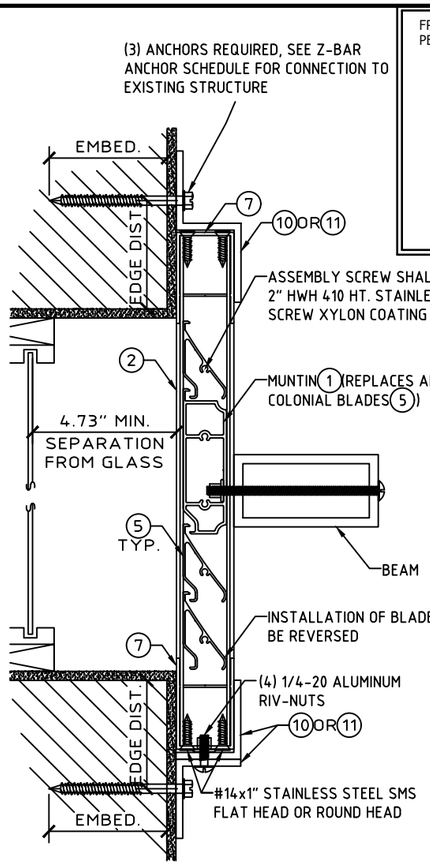

C TYPICAL PANEL SECTION
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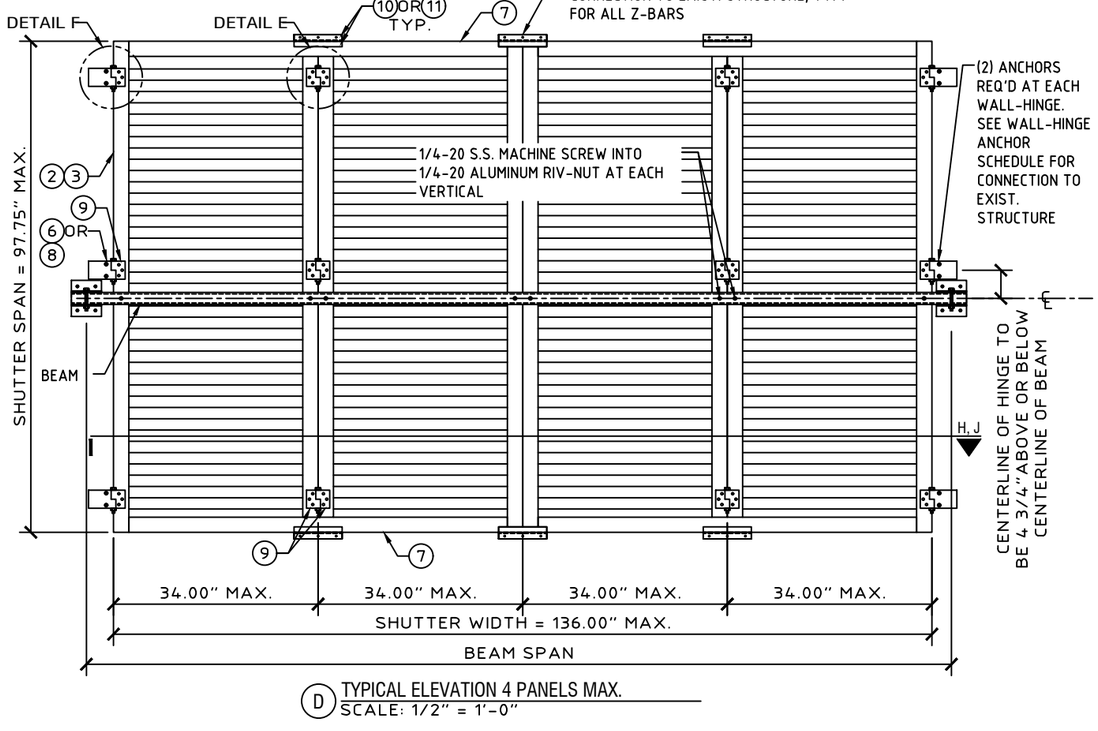

D TYPICAL ELEVATION 4 PANELS MAX.
SCALE: 1/2" = 1'-0"

BEAM SCHEDULE (ASD DESIGN PRESSURES)

BEAM SIZE	ALUMINUM ALLOY	SHUTTER SPAN	BEAM SPAN (+/- 79.5 PSF MAX)	WALL BRACKET ANCHOR TYPES (+69.3/-79.5 PSF MAX)		
				CONCRETE	HOLLOW BLOCK	WOOD (G=0.42 MIN)
2"x3"x1/8"	6063-T6	8'-1.75"	5' 6"	A,B,C,D,E	A,C,E	B,C
		6'-8"	6' 1"	A,B,C,D,E	A,B,C,E	B,C
		5'-10"	6' 6"	A,B,C,D,E	A,B,C,E	B,C
2"x4"x1/8"	6063-T6	8'-1.75"	6' 9"	A,B,C,D,E	A,C,	B,C
		6'-8"	7' 5"	A,B,C,D,E	A,C,	B,C
		5'-10"	8' 0"	A,B,C,D,E	A,C,	B,C
2"x5"x1/8"	6063-T6	8'-1.75"	8' 0"	A,B,C,D,E	A,C,	
		6'-8"	8' 10"	A,B,C,D,E	A,C,	B,C
		5'-10"	9' 5"	A,B,C,D,E	A,C,	B,C
2"x4"x1/4"	6061-T6	8'-1.75"	10' 5"	A,B,C,D,E		
		6'-8"	11' 6"	A,B,C,D,E	A,C,	
		5'-10"	12' 4"	A,B,C,D,E	A,C,	

- **TYPE A**: ¼-20 ALL POINT SOLID SET ANCHORS:
  - IN CONCRETE (3.35KSI MIN) WITH ⅞" MIN EMBED., 3" MIN EDGE DIST. AND 3" MIN SPACING
  - IN HOLLOW CONCRETE BLOCK WITH ⅞" MIN EMBED., 3" MIN EDGE DIST. AND 3" MIN SPACING
- **TYPE B**: ¼" EYEWALL ARMOR MALE/FEMALE BOLT OR ¼-20 DEWALT PANELMATES (MALE/FEMALE):
  - IN CONCRETE (3.35KSI MIN) WITH 1¾" MIN EMBED., 2½" MIN EDGE DIST. AND 3" MIN SAPCING
  - IN HOLLOW CONCRETE BLOCK WITH 1¼" MIN EMBED., 2" MIN EDGE DIST. AND 3" MIN SPACING
  - IN WOOD (G=0.42 MIN) WITH 1½" MIN EMBED., ¾" MIN EDGE DIST. AND 1½" MIN SPACING
- **TYPE C**: ¼" ITW TAPCON SG:
  - IN CONCRETE (3.35KSI MIN) WITH 1¾" MIN EMBED., 2½" MIN EDGE DIST. AND 3" MIN SPACING
  - IN HOLLOW CONCRETE BLOCK WITH 1¼" MIN EMBED., 2" MIN EDGE DIST. AND 3" MIN SPACING
  - IN WOOD (G=0.42 MIN) WITH 1⅞" MIN EMBED., ¾" MIN EDGE DIST. AND 1½" MIN SPACING
- **TYPE D**: ¼" MILLENIUM MILLFAST (W/ T&C ULTRACOTE):
  - IN CONCRETE (3.275KSI MIN) WITH 1¾" EMBED, 2½" EDGE DIST., AND 4" MIN SPACING
  - IN HOLLOW CONCRETE BLOCK WITH 1¼" EMBED., 2½" MIN EDGE DIST. AND 4" MIN SPACING
- **TYPE E**: #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT:
  - IN CONCRETE (2KSI MIN) WITH 2" EMBED, 2" EDGE DIST. AND 3" MIN SPACING
  - IN HOLLOW CONCRETE BLOCK WITH 1¼" EMBED, 2" EDGE DIST. AND 3" MIN SPACING

FRANK L. BENNARDO, PE
PE# 0046549 CA# 9885

FL

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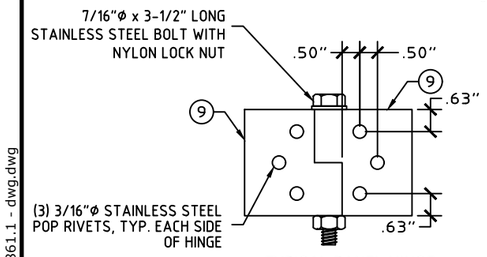
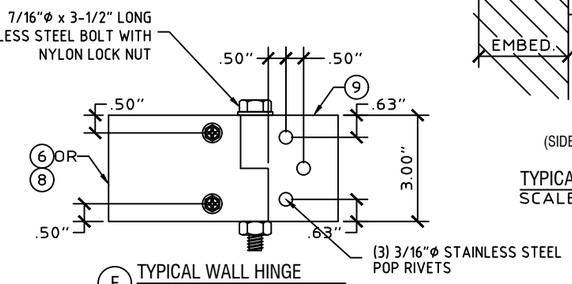
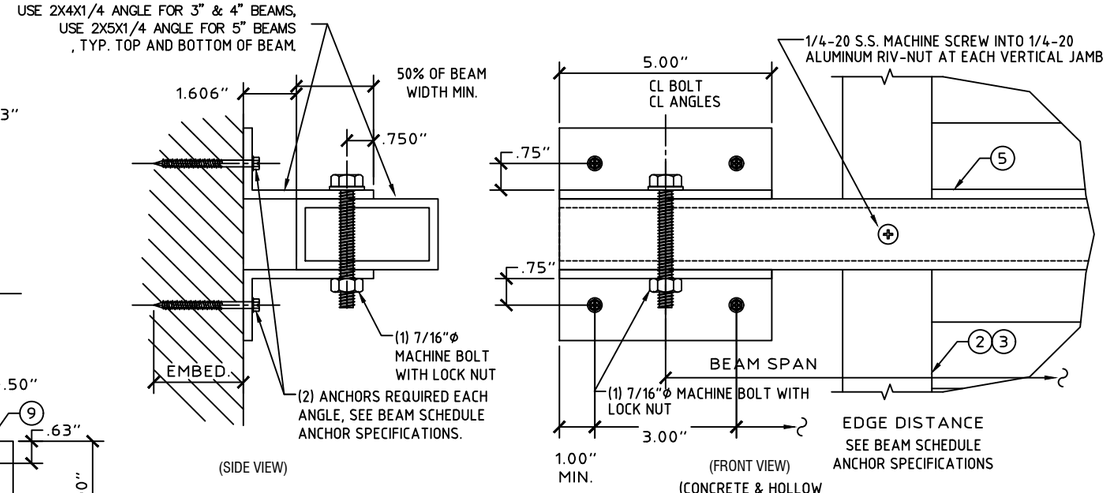


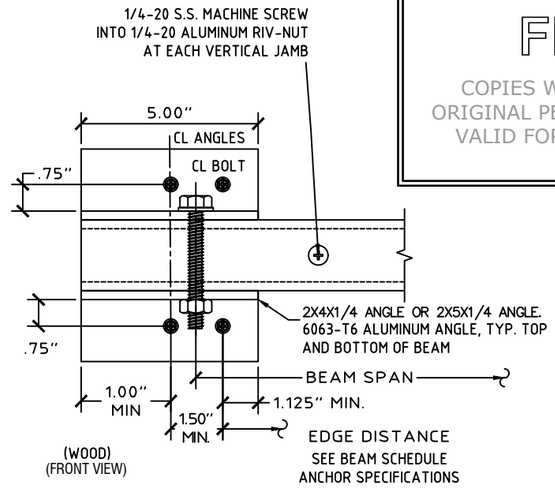
E TYPICAL PANEL HINGE
SCALE: 3" = 1'-0"

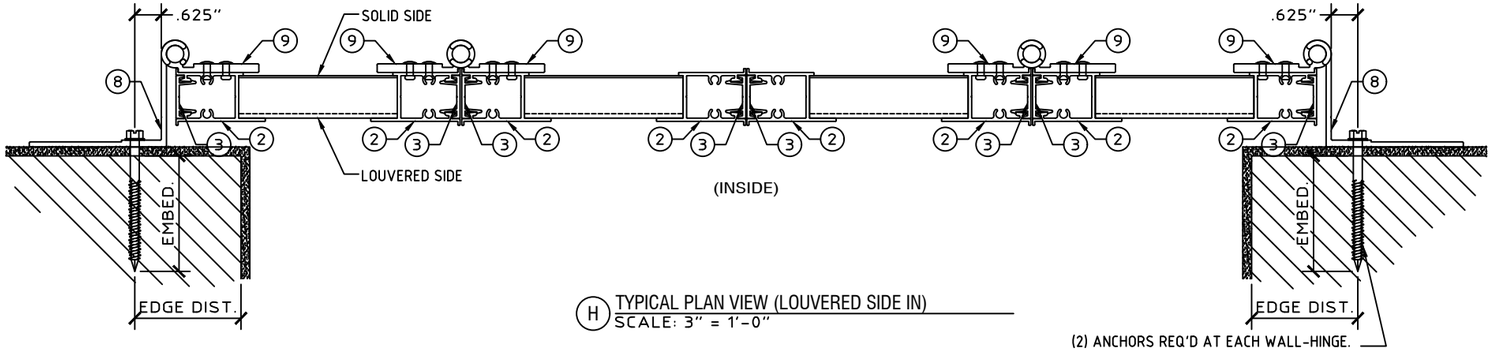


F TYPICAL WALL HINGE
SCALE: 3" = 1'-0"

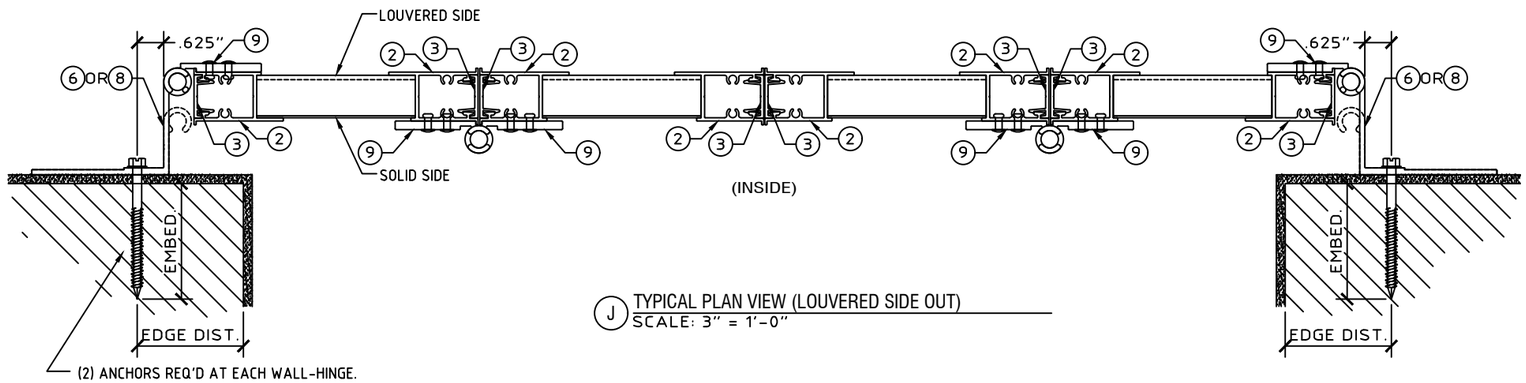


TYPICAL WALL BRACKET CONNECTION DETAIL
SCALE: 3" = 1'-0"





H TYPICAL PLAN VIEW (LOUVERED SIDE IN)
SCALE: 3" = 1'-0"



J TYPICAL PLAN VIEW (LOUVERED SIDE OUT)
SCALE: 3" = 1'-0"

Z-BAR ANCHOR SCHEDULE

MANUF.	DIAMETER	DESCRIPTION	MIN. EDGE DISTANCE	MIN. EMBED.	MIN. SPACING
CONCRETE (MIN. f'c = 3350 PSI)					
DEWALT	1/4 IN.	STAINLESS STEEL PANELMATE	2.50 IN	2.00 IN	3.00 IN
DEWALT	1/4 IN.	MALE PANELMATE (or P..PRO)	2.50 IN	2.00 IN	3.00 IN
DEWALT	1/4 IN.	FEMALE PANELMATE	2.50 IN	1.75 IN	3.00 IN
EYEWALL ARMOR	1/4 IN.	MALE/FEMALE BOLT	2.50 IN	1.75 IN	3.00 IN
ITW	1/4 IN.	TAPCON SG	2.50 IN	1.75 IN	3.00 IN
ALL-POINTS	1/4 IN.	SOLID-SET ANCHOR	2.00 IN	0.875 IN	3.00 IN
MILLENIUM	1/4 IN.	MILLFAST	2.50 IN	1.75 IN	3.00 IN
HOLLOW CONCRETE BLOCK					
DEWALT	1/4 IN.	STAINLESS STEEL PANELMATE	2.00 IN	1.25 IN	3.00 IN
DEWALT	1/4 IN.	MALE PANELMATE (or P..PRO)	2.00 IN	1.25 IN	3.00 IN
DEWALT	1/4 IN.	FEMALE PANELMATE	2.00 IN	1.25 IN	3.00 IN
EYEWALL ARMOR	1/4 IN.	MALE/FEMALE BOLT	2.50 IN	1.25 IN	3.00 IN
ITW	1/4 IN.	TAPCON SG	2.50 IN	1.25 IN	3.00 IN
ALL-POINTS	1/4 IN.	SOLID-SET ANCHOR	2.50 IN	0.875 IN	3.00 IN
MILLENIUM	1/4 IN.	MILLFAST	2.50 IN	1.25 IN	3.00 IN
WOOD (SOUTHERN YELLOW PINE, G=0.54)					
DEWALT	1/4 IN.	STAINLESS STEEL PANELMATE	0.75 IN	1.875 IN	3.00 IN
DEWALT	1/4 IN.	MALE PANELMATE (or P..PRO)	0.75 IN	1.875 IN	3.00 IN
DEWALT	1/4 IN.	FEMALE PANELMATE	0.75 IN	1.875 IN	3.00 IN
EYEWALL ARMOR	1/4 IN.	MALE/FEMALE BOLT	0.75 IN	1.50 IN	3.00 IN
ITW	1/4 IN.	TAPCON SG	0.75 IN	1.50 IN	3.00 IN
	1/4 IN.	S.S. HANGER BOLT	0.75 IN	1.25 IN	1.50 IN
WOOD (SPRUCE-PINE-FIR (SPF), G=0.42)					
	1/4 IN.	S.S. HANGER BOLT	0.75 IN	1.25 IN	1.50 IN

WALL-HINGE ANCHOR SCHEDULE

MANUF.	DIAMETER	DESCRIPTION	MIN. EDGE DISTANCE	MIN. EMBED.	MIN. SPACING
CONCRETE (MIN. f'c = 3192 PSI)					
ITW	1/4 IN.	SS TAPCON	2.50 IN	1.00 IN	2.00 IN
ITW	5/16 IN.	TAPCON XL	2.1875 IN	1.75 IN	2.00 IN
HOLLOW CONCRETE BLOCK					
DEWALT	1/4 IN.	ULTRACON	2.50 IN	1.25 IN	2.00 IN
ITW	5/16 IN.	TAPCON XL	2.1875 IN	1.75 IN	2.00 IN
WOOD (G=0.42 MIN)					
	#14	SMS OR WOOD SCREW	0.75 IN	1.50 IN	1.50 IN
	1/4 IN.	LAG SCREW	0.75 IN	1.25 IN	1.50 IN

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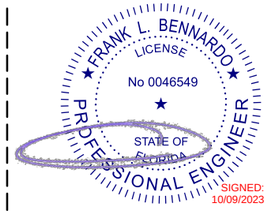

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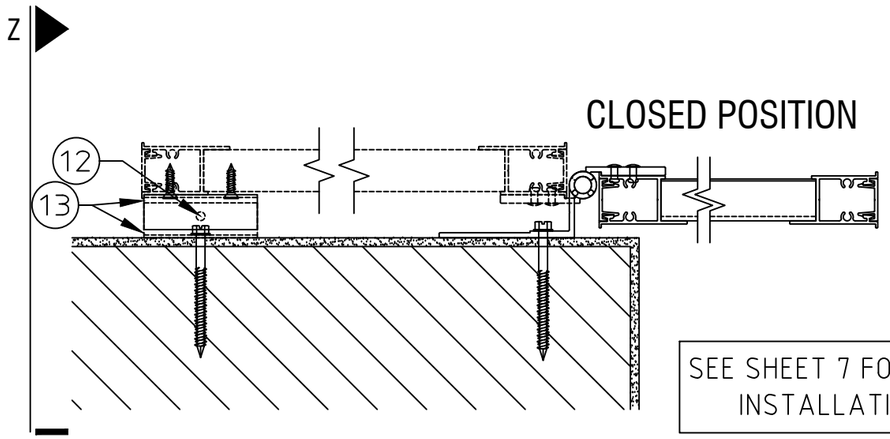
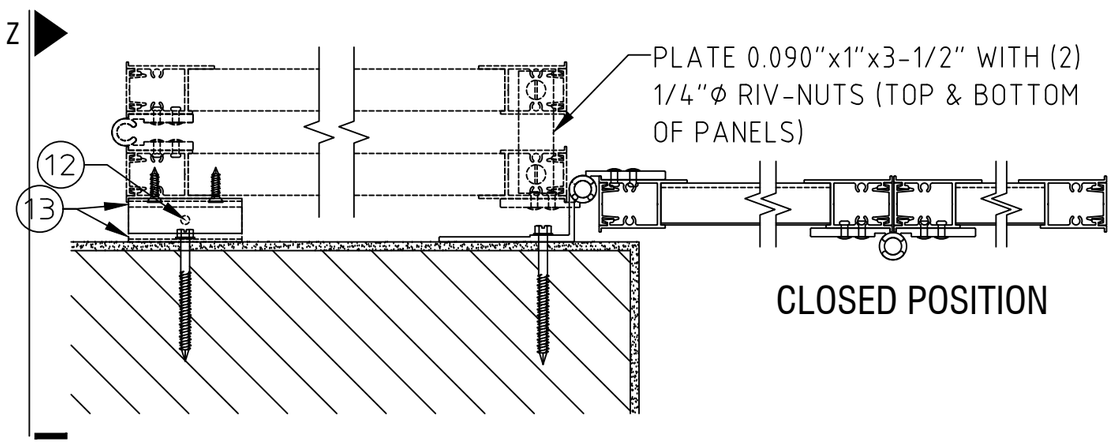


CLOSED POSITION

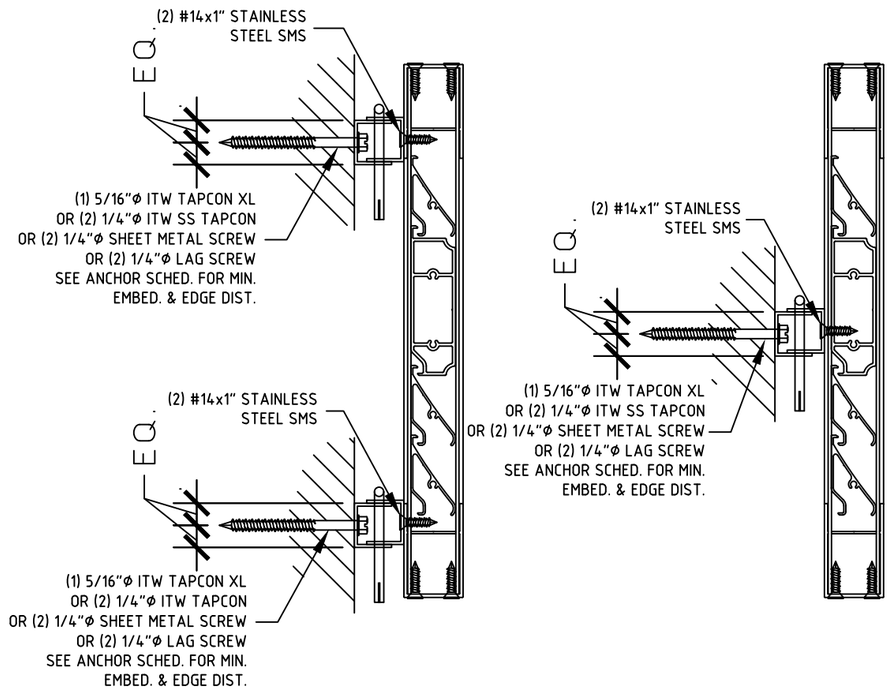
SEE SHEET 7 FOR ALL PLAN VIEW INSTALLATION POSITIONS

R PLAN VIEW 1
SCALE: 1-1/2" = 1'-0"



CLOSED POSITION

S PLAN VIEW 2
SCALE: 1-1/2" = 1'-0"



OPEN POSITION LOCK ANCHOR SCHEDULE:

WITH "C" CLIPS OR DOUBLE "C" CLIPS:

TO 2899 PSI MIN. CONCRETE:
- (1) 5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 2" MIN. EDGE DISTANCE.

TO 3192 PSI MIN. CONCRETE:
- (2) 1/4" ITW SS TAPCON W/ 1-3/4" MIN. EMBEDMENT AND 1" MIN. EDGE DISTANCE.

TO HOLLOW CONCRETE BLOCK:
- (1) 5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 4" MIN. EDGE DISTANCE.

TO G=0.42 MIN. WOOD HOST STRUCTURE:
- (2) 1/4" WOOD SCREWS OR SHEET METAL SCREWS W/ 1-3/4" MIN. THREAD PENETRATION AND 3/4" MIN. EDGE DISTANCE.
- (2) 1/4" LAG SCREWS W/ 1-1/2" MIN. THREAD PENETRATION AND 3/4" MIN. EDGE DISTANCE.

(HINGES NOT SHOWN FOR CLARITY)

(DOUBLE "C" CLIP) (SINGLE "C" CLIP)

NOTE:
CLIPS REQ'D TOP & BOTTOM FOR SPANS > 69". ONE CLIP REQ'D AT MID-SPAN (±3") FOR SPANS ≤ 69".

T OPEN POSITION LOCK
SCALE: 3" = 1'-0"

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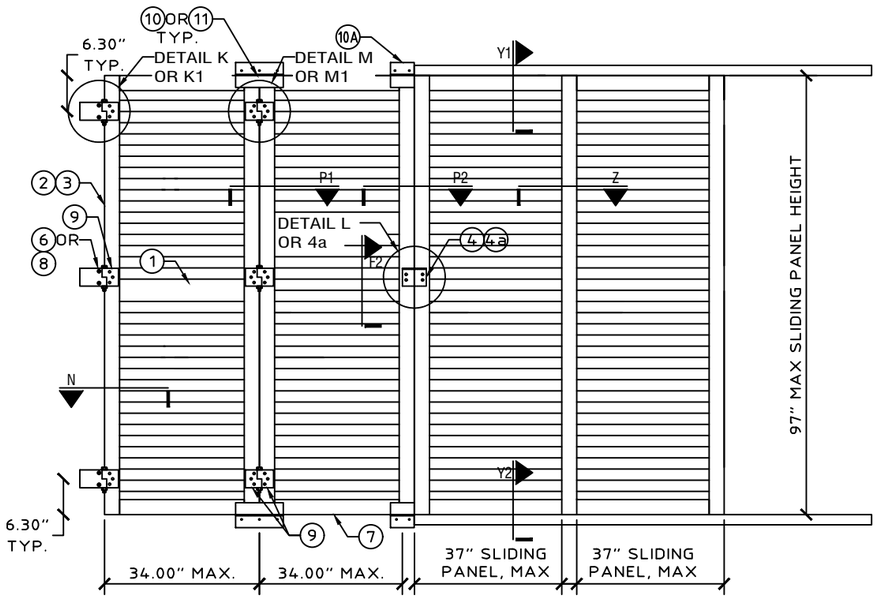
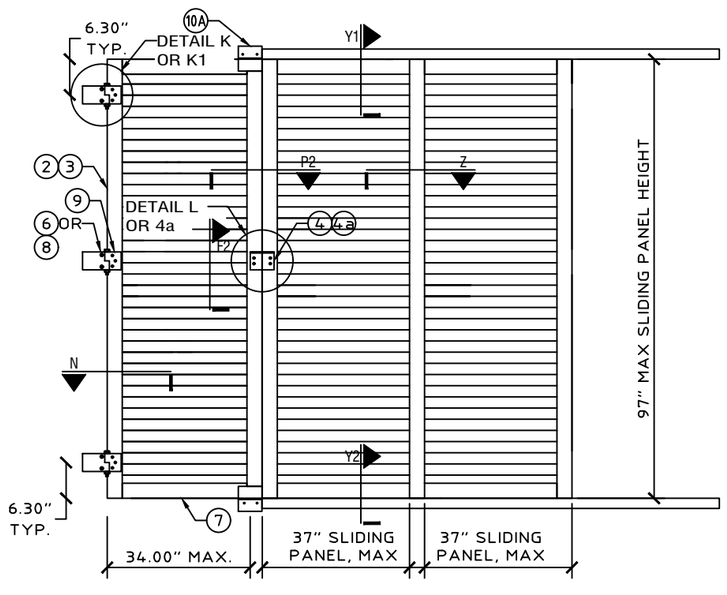
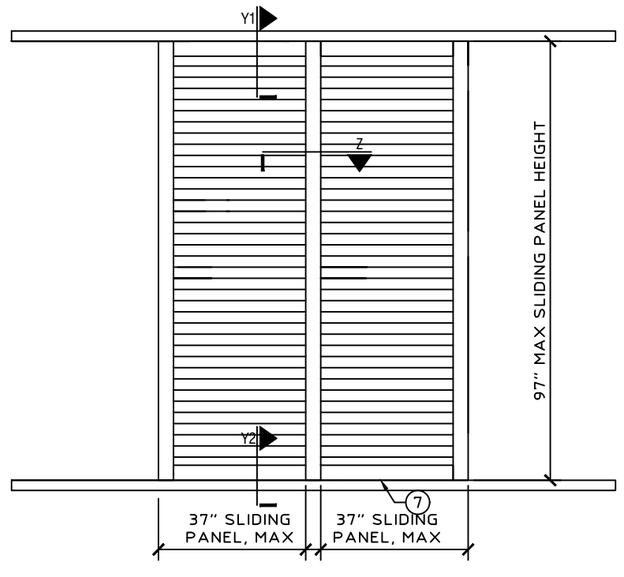


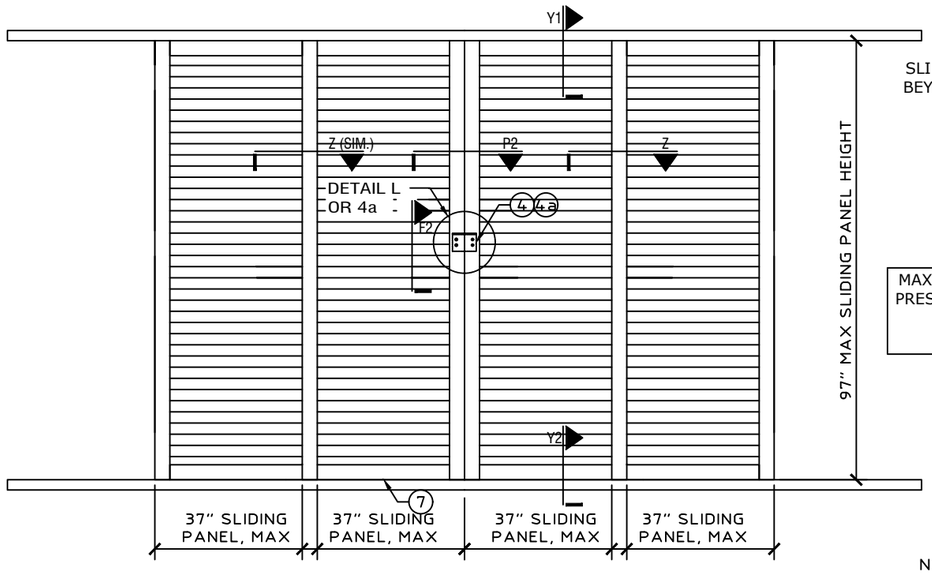
X1 ELEVATION: 2 HINGED AND 2 SLIDING PANELS
SCALE: N.T.S.



X2 ELEVATION: 1 HINGED AND 2 SLIDING PANELS
SCALE: N.T.S.



X5 ELEVATION: 2 SLIDING PANELS
SCALE: N.T.S.

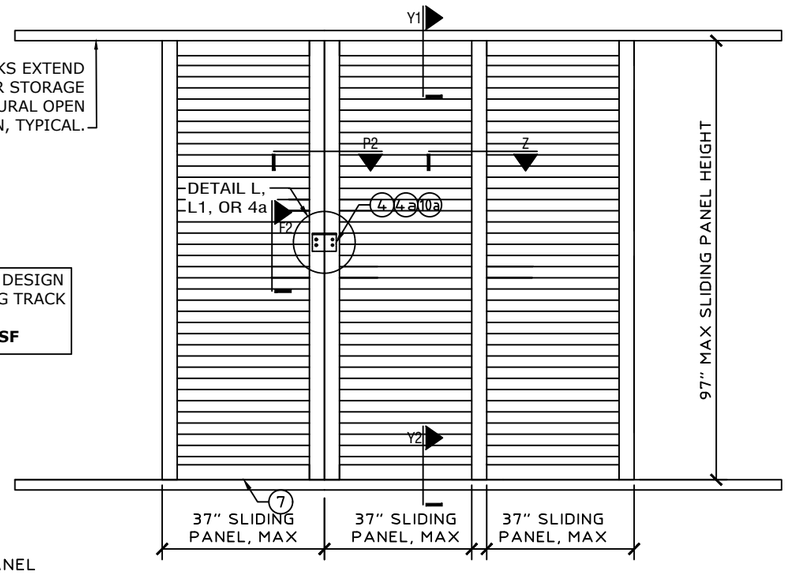


X3 ELEVATION: 4 SLIDING PANELS
SCALE: N.T.S.

SLIDING PANEL TRACKS EXTEND BEYOND FOR SHUTTER STORAGE IN NON-STRUCTURAL OPEN POSITION, TYPICAL.

MAXIMUM ALLOWABLE DESIGN PRESSURE FOR SLIDING TRACK OPTION:
+57.2 / -66.2 PSF

NOTE: SLIDING PANEL CONSTRUCTION SAME AS HINGED PANELS.



X4 ELEVATION: 3 SLIDING PANELS
SCALE: N.T.S.

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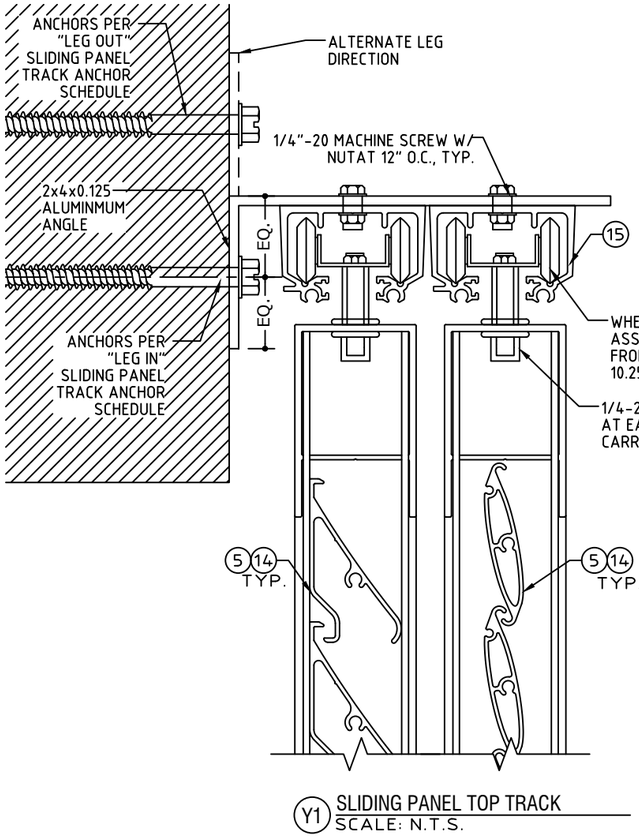
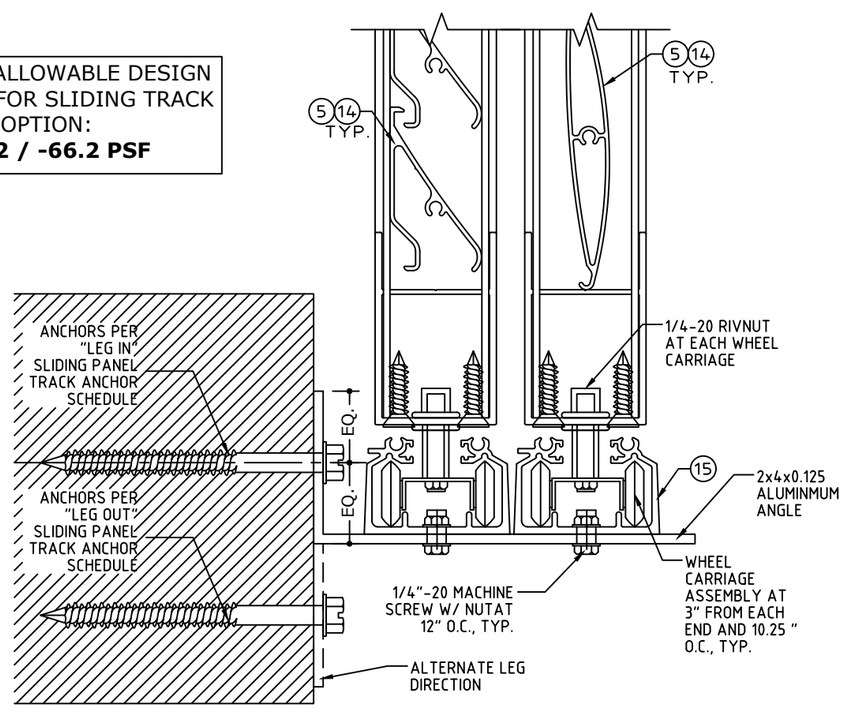
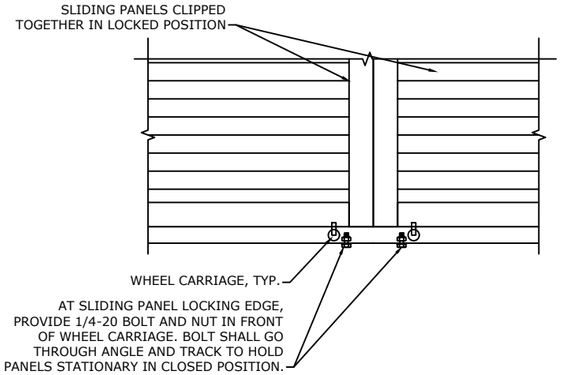


Y1 SLIDING PANEL TOP TRACK
SCALE: N.T.S.

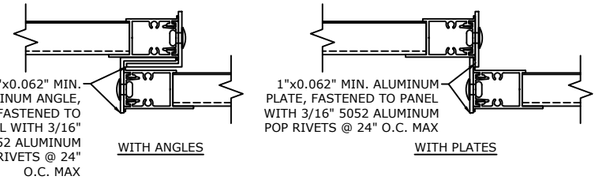
MAXIMUM ALLOWABLE DESIGN PRESSURE FOR SLIDING TRACK OPTION:
+57.2 / -66.2 PSF



Y2 SLIDING PANEL BOTTOM TRACK
SCALE: N.T.S.



ZZ WHEEL CARRIAGE STOPS FOR SLIDING PANELS
SCALE: N.T.S.



Z SLIDING PANEL INTERLOCK
SCALE: N.T.S.

"LEG IN" SLIDING PANEL TRACK ANCHOR SCHEDULE:

HOST STRUCTURE	ANCHOR	SLIDING PANEL VERTICAL SPAN					
		36"	48"	60"	72"	84"	97"
CONCRETE (3192 PSI MIN.)	1/4" ITW SS TAPCONS W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.
	1/4" DEWALT ULTRACON W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.
CONCRETE (3500 PSI MIN.)	1/4" MILLENIUM MILLFAST W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.
HOLLOW CONCRETE BLOCK	1/4" MILLENIUM MILLFAST W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	13" O.C.	11" O.C.	9" O.C.	8" O.C.	7" O.C.
	1/4" ITW SS TAPCONS W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	15" O.C.	12" O.C.	9" O.C.	8" O.C.	7" O.C.	6" O.C.
	1/4" DEWALT ULTRACON W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	13" O.C.	10" O.C.	8" O.C.	7" O.C.	6" O.C.
	5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 4" MIN. EDGE DISTANCE.	16" O.C.	16" O.C.	15" O.C.	13" O.C.	11" O.C.	9" O.C.
	5/16" DEWALT ULTRACON W/ 1-1/4" MIN. EMBEDMENT AND 3-1/8" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	14" O.C.	12" O.C.	10" O.C.
WOOD (G=0.42 MIN.)	1/4" LAG SCREW W/ 1-1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.
	#14 SMS OR WOOD SCREW W/ 1-1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	15" O.C.	13" O.C.

NOTES: TABLE PROVIDES MAXIMUM ANCHOR SPACING FOR INDICATED ANCHOR TYPES AND SLIDING PANEL VERTICAL SPANS FOR "LEG IN" CONDITION. ANCHORS SHALL BE LOCATED 2" MAX FROM TRACK ENDS.
*MILLENIUM MILLFAST SCREWS SHALL HAVE T&C ULTRACOTE

"LEG OUT" SLIDING PANEL TRACK ANCHOR SCHEDULE:

HOST STRUCTURE	ANCHOR	SLIDING PANEL VERTICAL SPAN					
		36"	48"	60"	72"	84"	97"
CONCRETE (3192 PSI MIN.)	1/4" ITW SS TAPCONS W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	13" O.C.	10" O.C.	9" O.C.	7" O.C.	6" O.C.
	1/4" DEWALT ULTRACON W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	13" O.C.	11" O.C.	9" O.C.	8" O.C.
CONCRETE (3500 PSI MIN.)	1/4" MILLENIUM MILLFAST W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	13" O.C.	10" O.C.	9" O.C.	7" O.C.	6" O.C.
HOLLOW CONCRETE BLOCK	1/4" MILLENIUM MILLFAST W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	7" O.C.	5" O.C.	4" O.C.			
	1/4" ITW SS TAPCONS W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	6" O.C.	4" O.C.	4" O.C.	3" O.C.	3" O.C.	
	1/4" DEWALT ULTRACON W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	6" O.C.	5" O.C.	4" O.C.	3" O.C.	3" O.C.	
	5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 4" MIN. EDGE DISTANCE.	10" O.C.	7" O.C.	6" O.C.	5" O.C.	4" O.C.	4" O.C.
	5/16" DEWALT ULTRACON W/ 1-1/4" MIN. EMBEDMENT AND 3-1/8" MIN. EDGE DISTANCE	10" O.C.	8" O.C.	6" O.C.			
WOOD (G=0.42 MIN.)	1/4" LAG SCREW W/ 1-1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE	16" O.C.	14" O.C.	11" O.C.	10" O.C.	8" O.C.	7" O.C.
	#14 SMS OR WOOD SCREW W/ 1-1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE.	13" O.C.	10" O.C.	8" O.C.	7" O.C.	6" O.C.	5" O.C.

NOTES: TABLE PROVIDES MAXIMUM ANCHOR SPACING FOR INDICATED ANCHOR TYPES AND SLIDING PANEL VERTICAL SPANS FOR ALTERNATE "LEG OUT" CONDITION. ANCHORS SHALL BE LOCATED 2" MAX FROM TRACK ENDS.
*MILLENIUM MILLFAST SCREWS SHALL HAVE T&C ULTRACOTE

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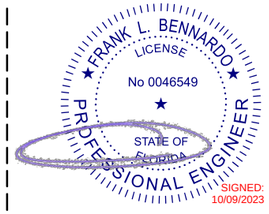

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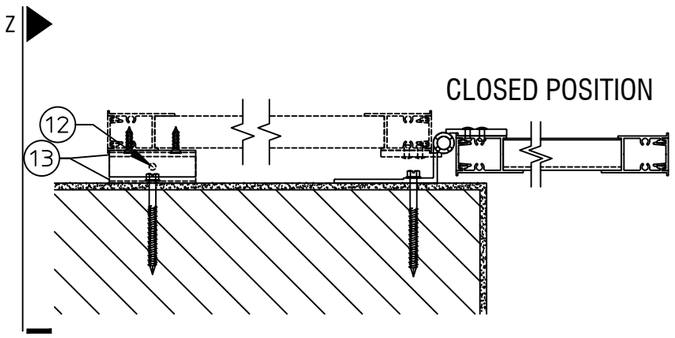
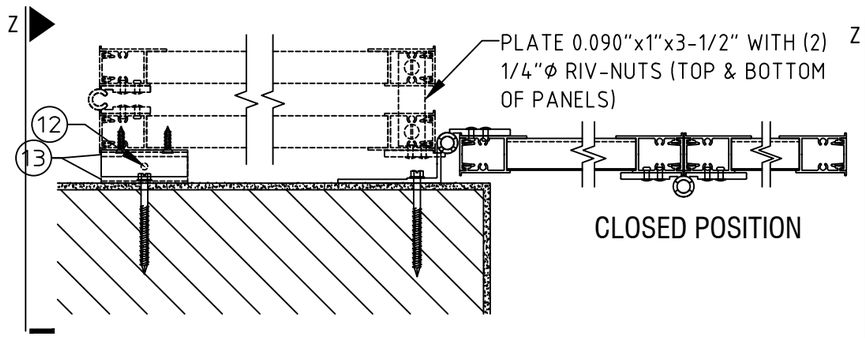
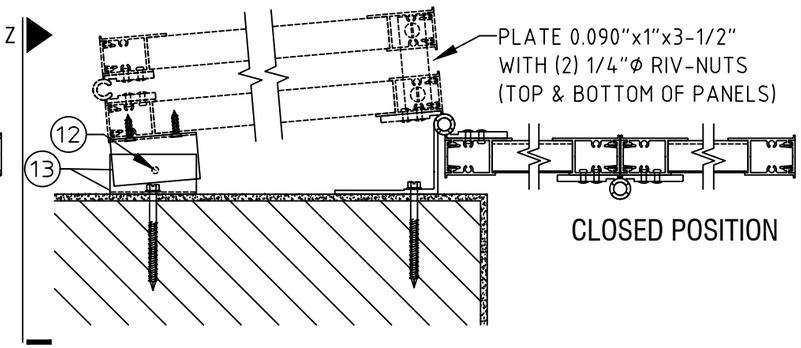


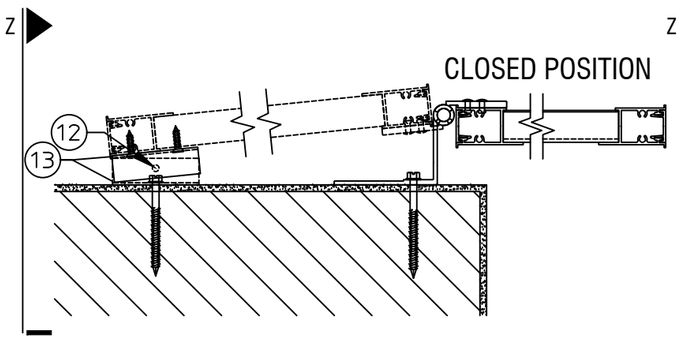
R PLAN VIEW 1
SCALE: 1-1/2" = 1'-0"



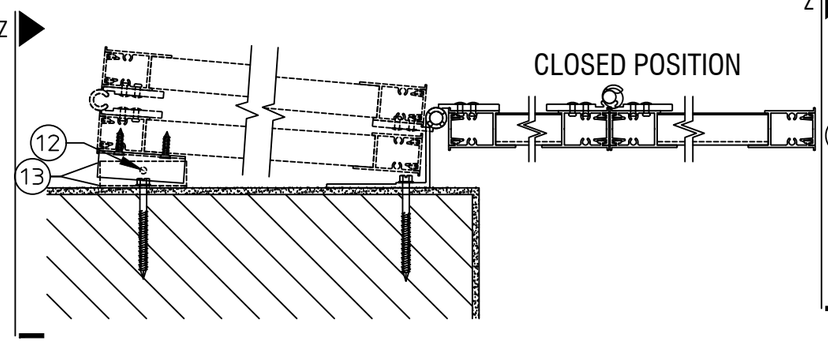
S PLAN VIEW 2
SCALE: 1-1/2" = 1'-0"



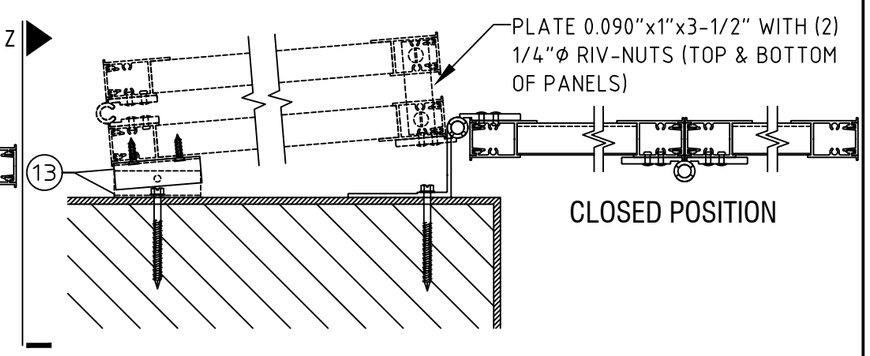
T PLAN VIEW 3
SCALE: 1-1/2" = 1'-0"



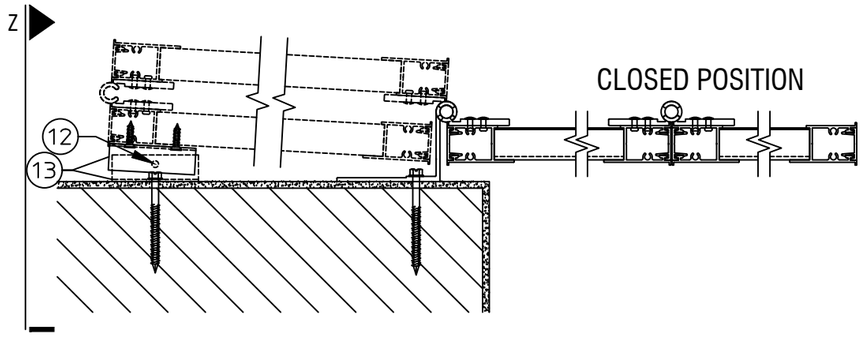
U PLAN VIEW 4
SCALE: 1-1/2" = 1'-0"



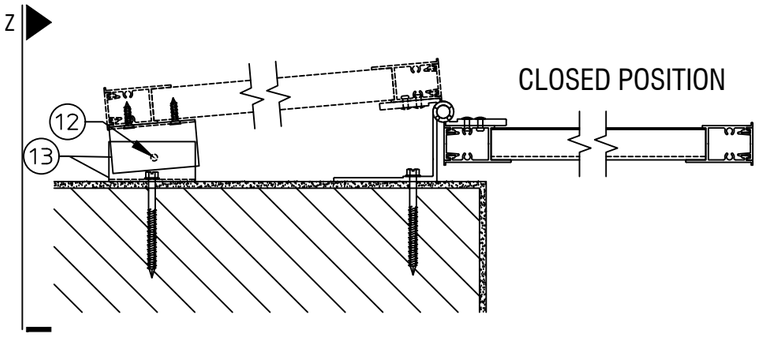
V PLAN VIEW 5
SCALE: 1-1/2" = 1'-0"



Y PLAN VIEW 8
SCALE: 1-1/2" = 1'-0"



W PLAN VIEW 7
SCALE: 1-1/2" = 1'-0"



X PLAN VIEW 6
SCALE: 1-1/2" = 1'-0"

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REMARKS	DRWN	CHKD	DATE
2020 FBC (20-29009)	CCB	RWN	7/01/22
2023 FBC	MLD	CCB	10/05/23

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23-66638

SCALE: NTS UNLESS NOTED

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