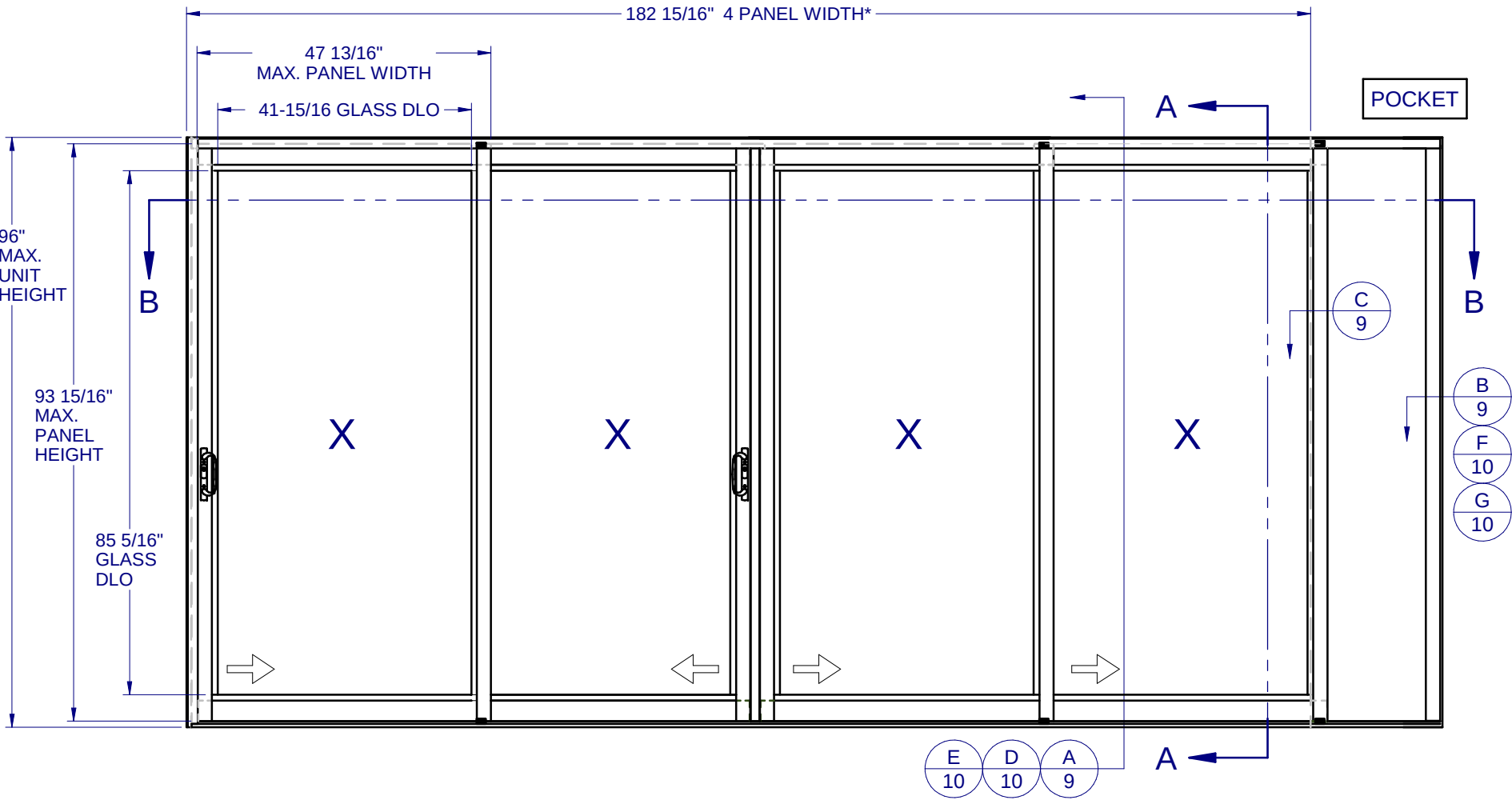


SLIDING GLASS DOOR - LARGE MISSILE IMPACT



GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION AND IS RATED FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
2. GLAZING OPTIONS: (SEE SHEET 3)
3. APPROVED CONFIGURATIONS INCLUDE BUT ARE NOT LIMITED TO:
"XO", "OX", "XX", "OXO", "XXX", "OXXO", "XXXX", "PX", "PXX", "PXXX", "PXXXX", "PXXP", "PXXXXP", "PXXXXXXP", "PXXXXXXXP"
2 TRACK, 3 TRACK, 4 TRACK
4. DESIGN PRESSURE RATING:
-NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
-POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 9-10 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCT APPROVED FOR IMPACT USE. SHUTTERS ARE NOT REQUIRED.
7. ALL FRAMES AND VENTS ARE PROCESSED AND SCREWED TOGETHER.
8. SERIES / MODEL DESIGNATION SGD-3800.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
X = OPERABLE SASH, O = FIXED SASH, P = POCKET/HOOKSTRIP
10. SECTION CALLOUTS APPLY TO ALL CONFIGURATIONS IN A SIMILAR LOCATION.
11. WEEP SLOTS = 1/4" x 1-3/4" LOCATED 6" FROM BOTH ENDS.

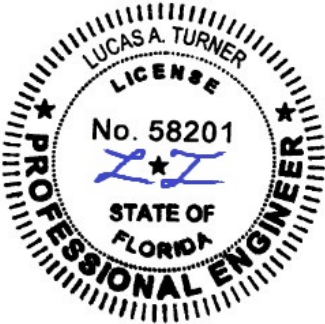


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3800 ALUM.
SLIDING GLASS
DOOR - IMPACT

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9/14/2023

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FL PE # 58201
Turner Engineering &
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2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:
GENERAL NOTES AND
ELEVATIONS

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DWG #:	REV.:
CWS-1156	D
SCALE:	SHEET
1:25	1 OF 10

Lucas Turner
2023.09.14
16:46:56
-05'00'

TABLE OF CONTENTS

GENERAL NOTES & ELEVATIONS.....1
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BOM & GLAZING DETAIL.....3
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ANCHOR PATTERNS (STAGGER).....8
INSTALLATION DETAILS.....9-10

MAX. PANEL SIZE	REINFORCEMENT	DESIGN PRESSURE RATING	IMPACT RATING
47-13/16" x 93-15/16"	N/A	+/-65 PSF	LARGE MISSILE IMPACT
	2096 INTERLOCK 2126 ASTRAGAL	+80/-95 PSF	

*(4) PANELS SHOWN; HVHZ LIMITED TO MAX. (9) PANELS. OUTSIDE HVHZ, UNLIMITED NUMBER
OF PANELS IS ALLOWABLE AS LONG AS INDIVIDUAL PANELS DO NOT EXCEED PANEL SIZE AS SHOWN.



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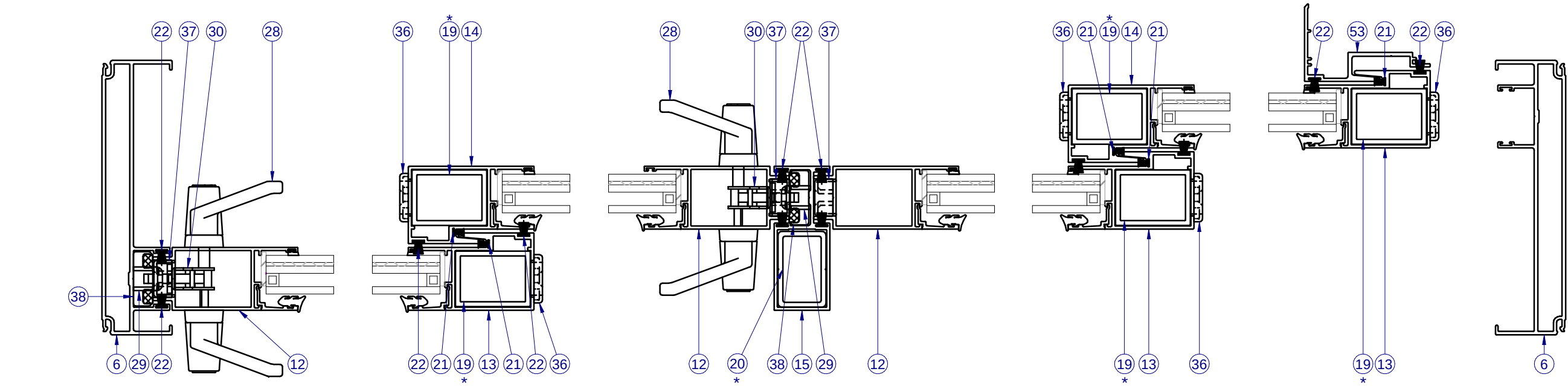
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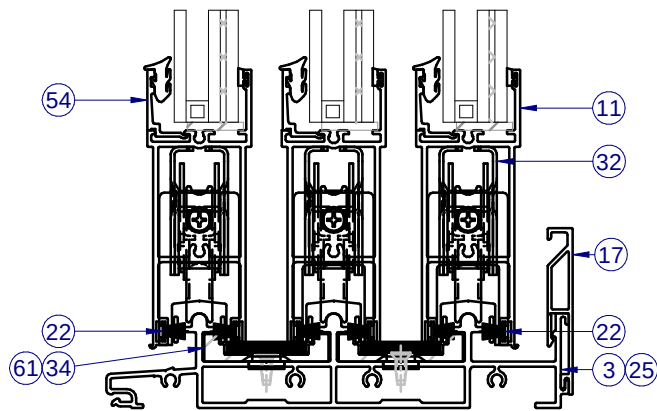
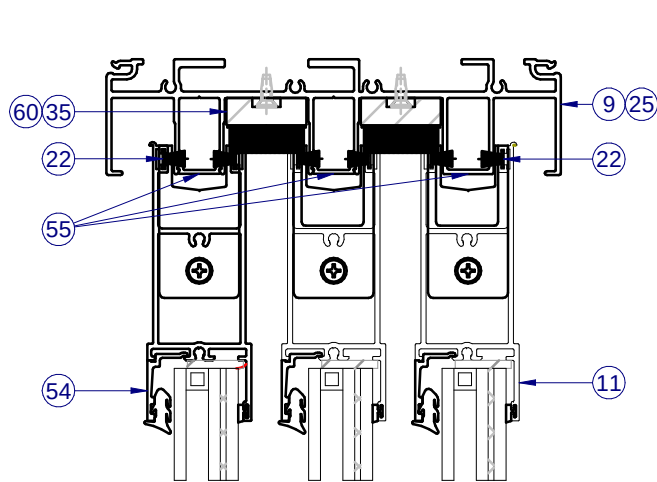
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SECTION VIEWS

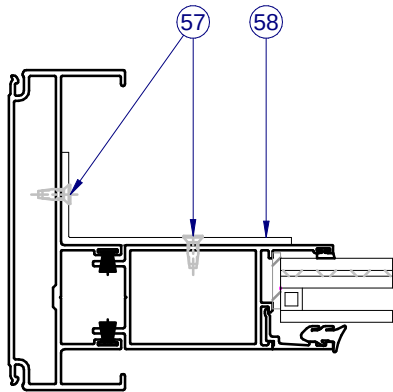
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SCALE:	SHEET
1:3	2 OF 10



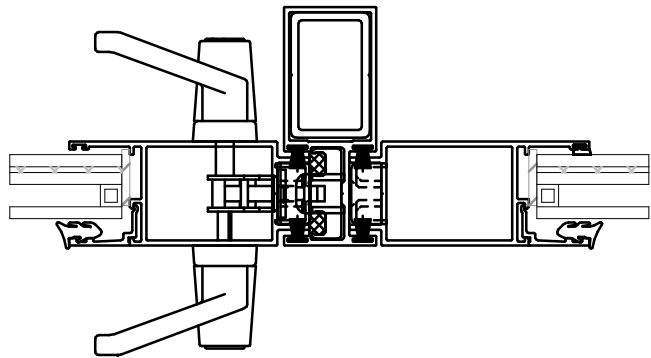
SECTION VIEW B-B



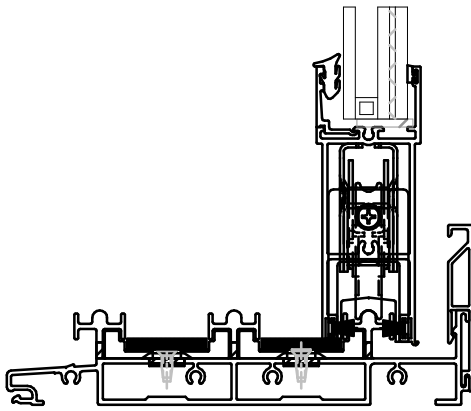
SECTION VIEW A-A
DP +/- 65



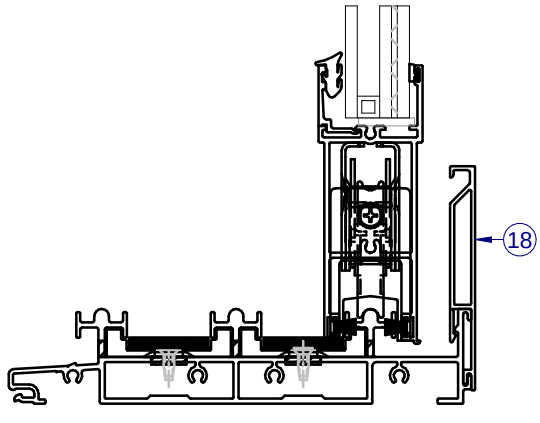
FIXED PANEL
ATTACHMENT



ASTRAGAL ORIENTATION
EXT. TRACK W/SCREEN



ALTERNATE SILL VIEW
SILL RISER - 2094



ALTERNATE SILL RISER VIEW
DP +80 / -95

SILL RISER	DP
2094	65 psf
2095	80 psf

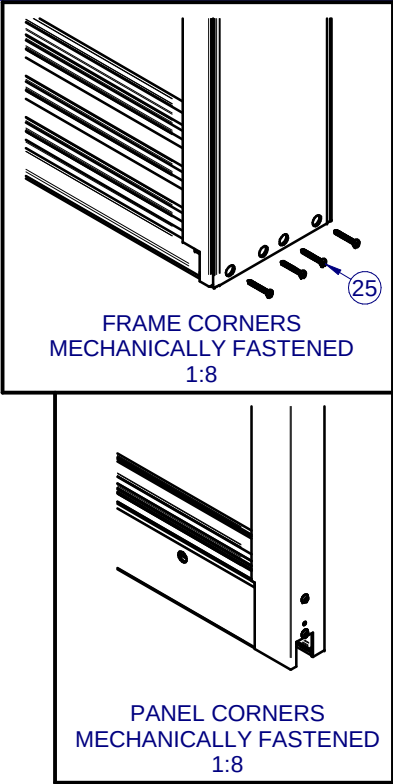
NOTES:

- 1) INSTALLATION W/NO SILL RISER ALLOWED TO THE FULL DP'S INDICATED ABOVE, IN LOCATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED, SUCH AS BUT NOT LIMITED TO LOCATIONS WHERE AN OVERHANG IS PRESENT THAT IS AS WIDE AS THE WALL IS TALL.
- 2) * INTERNAL REINFORCEMENT, H-2126 AND H-2096, REQUIRED ONLY ON UNITS WITH DP OVER +/-65 AND UNITS OVER 96 INCHES TALL.

ITEMS NOT SHOWN FOR CLARITY:
23-24, 26-27, 31, 33, 39-52, 56, 59, 62-63

PARTS LIST			
ITEM	PART #	DESCRIPTION	MATERIAL
1	GLASS	SEE THIS SHEET	
2	H-2076	2-Track Sill	Aluminum
3	H-2077	3-Track Sill	Aluminum
4	H-2078	4-Track Sill	Aluminum
5	H-2079	2-Track Jamb	Aluminum
6	H-2080	3-Track Jamb	Aluminum
7	H-2081	4-Track Jamb	Aluminum
8	H-2082	2-Track Head	Aluminum
9	H-2083	3-Track Head	Aluminum
10	H-2084	4-Track Head	Aluminum
11	H-2085	Top/Bottom Rail	Aluminum
12	H-2086	Lock Stile	Aluminum
13	H-2087	Interlock Stile - Exterior	Aluminum
14	H-2088	Interlock Stile - Interior	Aluminum
15	H-2089	Astragal	Aluminum
16	H-2091	LAMI Glazing Bead, 7/16"	Aluminum
17	H-2094	Sill Riser	Aluminum
18	H-2095	Sill Riser	Aluminum
19	H-2096	Reinforcement, Interlock	Aluminum
20	H-2126	Reinforcement, Astragal	Aluminum
21	P-3300	Wtsp., 0.280" x 0.187" Back, Fin, Black	
22	P-3308	Wtsp., 0.310" x 0.270" Back, Fin, Black	
23		SikaFlex 552, Purfect Glaze "H"	Silicone
24	P-3514	#8 x 1" Ph Truss Hd Type A SMS	Steel
25	P-4138	#10 x 1-1/4" PH PH SELF-DRILLING TEK	Steel
26	P-3539	#8 x 3/4" PN SQ TEK - Roller Asm/Mortise Lock	Steel
27	P-5588	Hole Plug, 0.500" Dia.	Nylon
28	P-5563	KIT, INT/EXT HANDLE W/ THUMBTURN, SGD	Aluminum
29	P-3792	Keeper	Steel
30	P-3793	Multi-Point Mortise Lock	Steel
31	P-5259	#10 x 1 Ph FH TEK	Steel
32	P-5287	Tandem Roller Assy, 2.125" Dia Wheel	Steel
33	P-5531	Setting Block, 0.09" x 1" x 2"	Rubber
34	P-5480	Air Seal Bridge - Sill	Nylon
35	P-5481	Air Seal Bridge - Head	Nylon
36	P-5482	Panel Guide - Interlock Stile	Nylon
37	P-5483	Panel Guide - Lock Stile	Nylon
38	P-5484	Bumper/Panel Guide - Frame and Astragal	Nylon
39	P-5485	Offset Glazing Gasket	Rubber
40	P-5486	Bumper/Panel Guide - Interlock	Rubber
41	P-5498	Glazing Bead Wedge Gasket	Rubber
42	S-2137	Screen, Astragal	Aluminum
43	H-2135	Screen, 1-Track Head/Jamb	Aluminum
45	S-2134	Screen, 1-Track Sill	Aluminum
46	S-2053	Screen, 2-Track Head	Aluminum
47	S-2054	Screen, 2-Track Jamb	Aluminum
48	S-2055	Screen, 2-Track Sill	Aluminum
49	S-2056	Screen, 3-Track Head	Aluminum
50	S-2057	Screen, 3-Track Jamb	Aluminum
51	S-2058	Screen, 3-Track Sill	Aluminum
52	S-2059	Screen, Snap Cover	Aluminum

PARTS LIST			
ITEM	PART #	DESCRIPTION	MATERIAL
53	S-2090	Hook Strip	Aluminum
54	S-2092	IG Glazing Bead, 1"	Aluminum
55	S-2093	Track Filler - Head	Aluminum
56	S-2097	Screen, Interlock	Aluminum
57		Screw, Fixed Panel Clip to Panel	Steel
58		Fixed Panel Clip	Aluminum
59		Gasket, Frame Assembly	
60		Dust Plug @ Head, 1-1/4" x 3-1/2" x 0.44" Tall, Fin	
61		Dust Plug @ Sill, 1-3/16" x 3-1/2" x 0.44" Tall, Fin	
62		Screen, Spline	Rubber
63		Screen, Cloth	





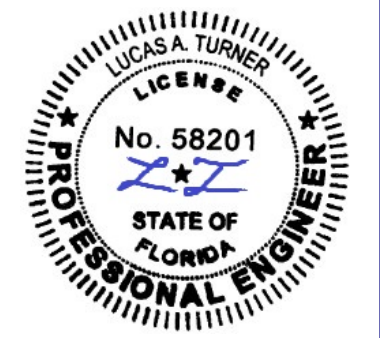
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3800 ALUM. SLIDING GLASS DOOR - IMPACT

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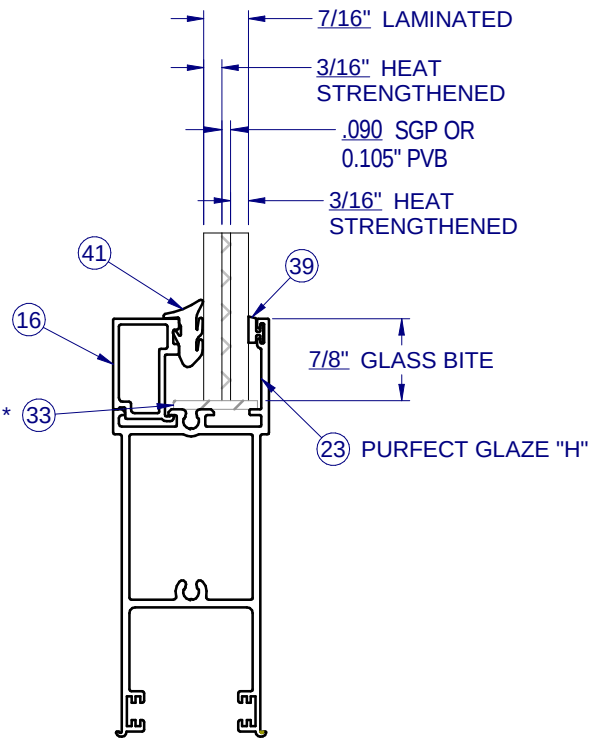
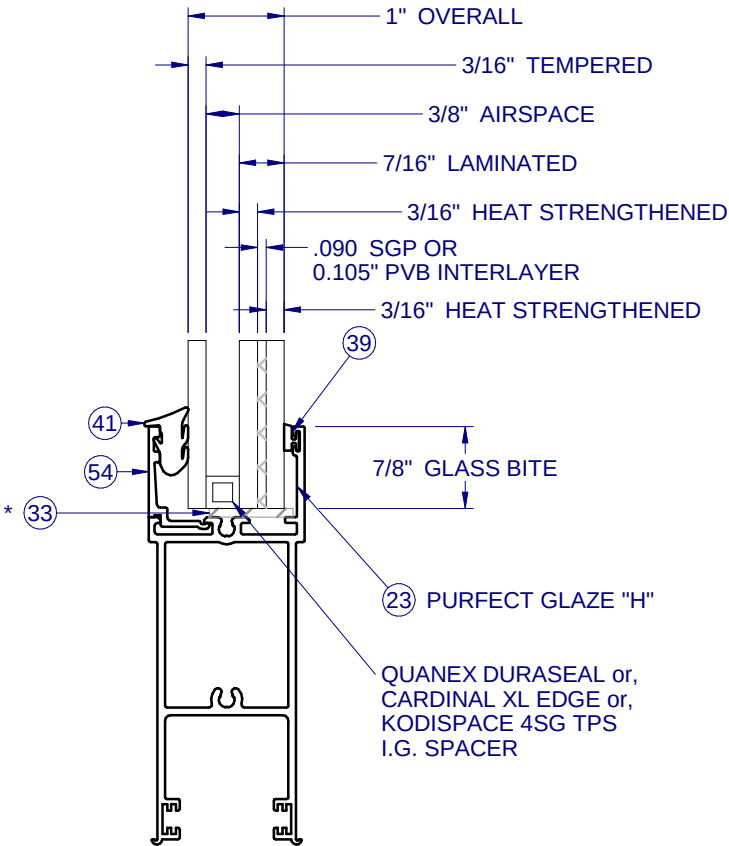


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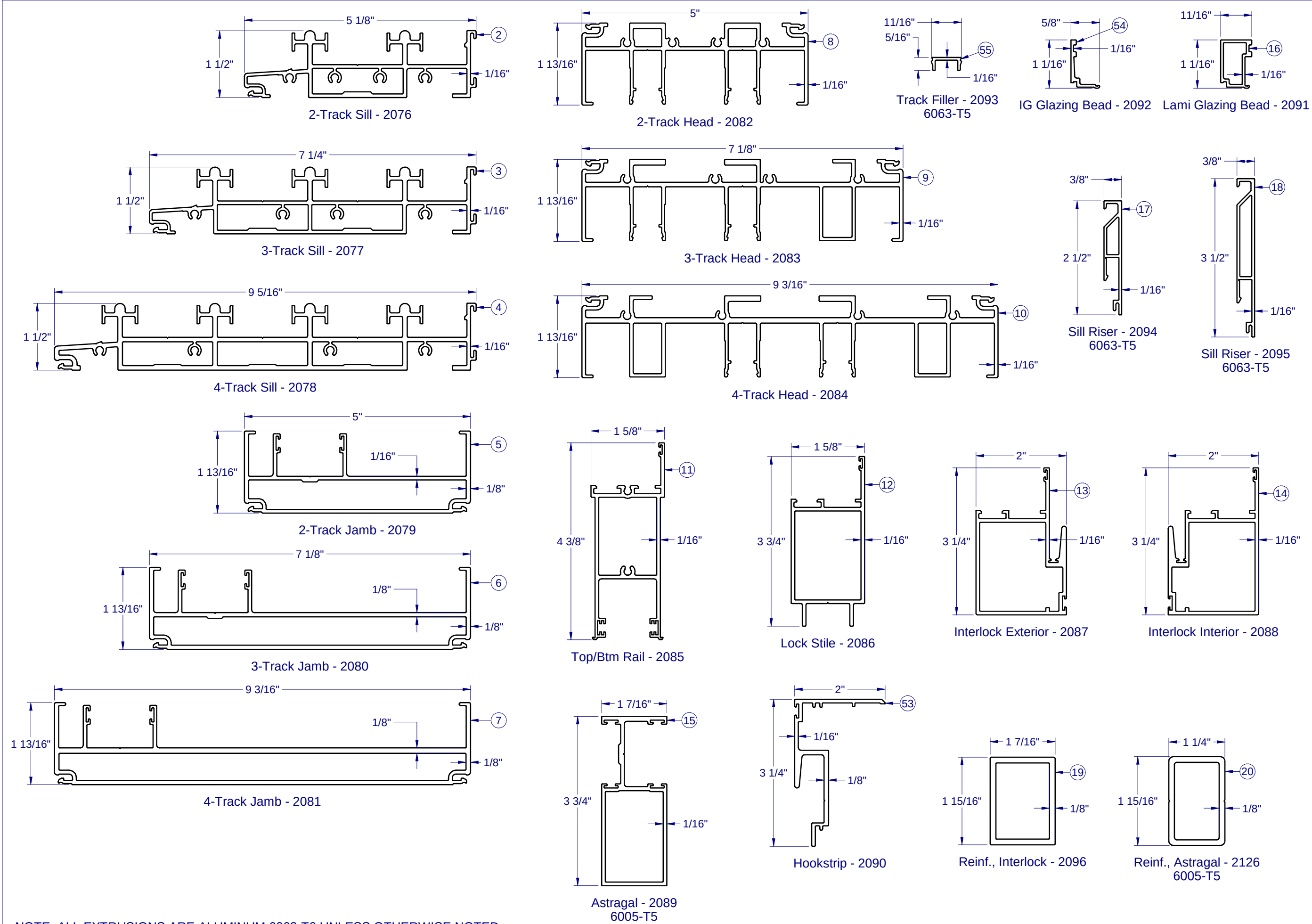
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DETAIL

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DWG #:	REV.:
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SCALE:	SHEET
1:2	3 OF 10



* SETTING BLOCKS PER FBC 2411.3.3.1

NOTE: ALL EXTRUSIONS ARE ALUMINUM 6063-T6 UNLESS OTHERWISE NOTED.



NOTE: ALL EXTRUSIONS ARE ALUMINUM 6063-T6 UNLESS OTHERWISE NOTED.



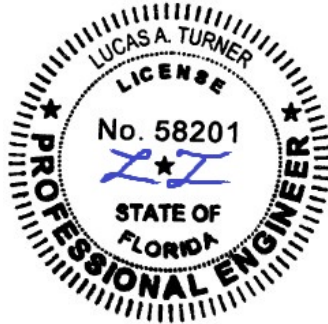
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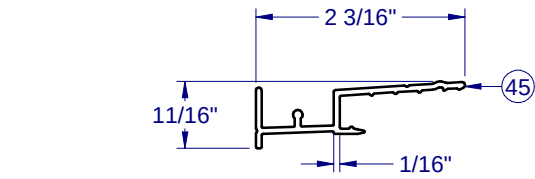
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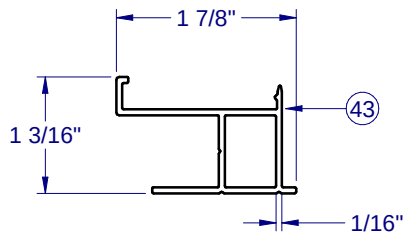
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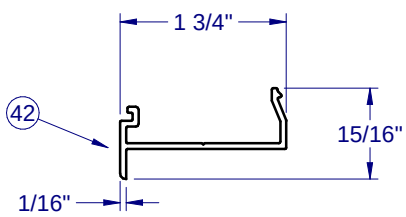
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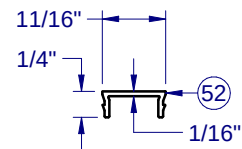
Screen, 1-Track Sill - 2134



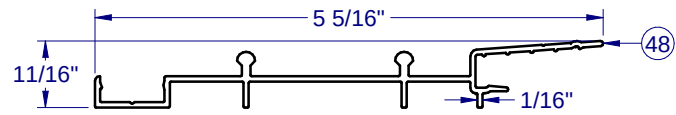
Screen, 1-Track Head/Jamb - 2135



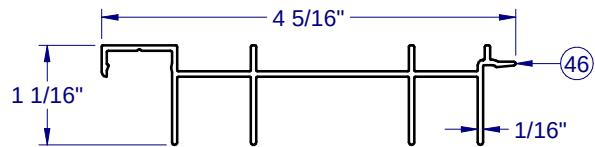
Screen, Astragal - 2137



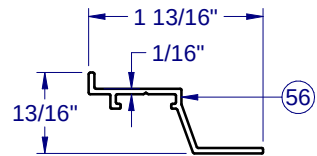
Screen, Snap Cover - 2059



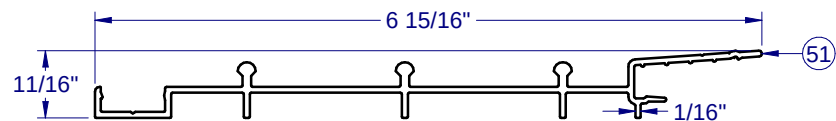
Screen, 2-Track Sill - 2055



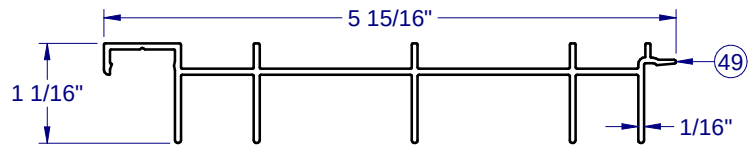
Screen, 2-Track Head - 2053



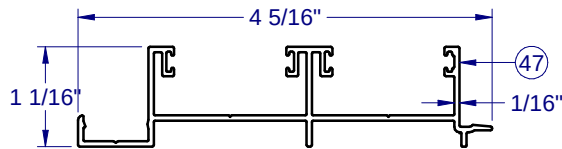
Screen, Interlock - 2097



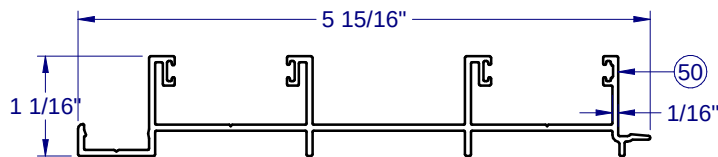
Screen, 3-Track Sill - 2058



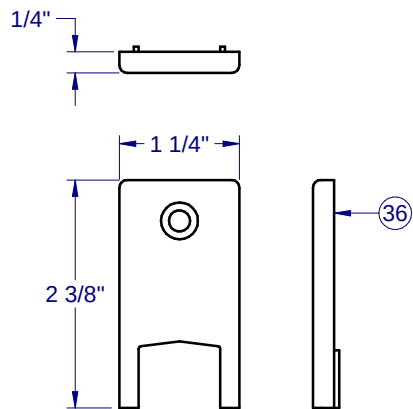
Screen, 3-Track Head - 2056



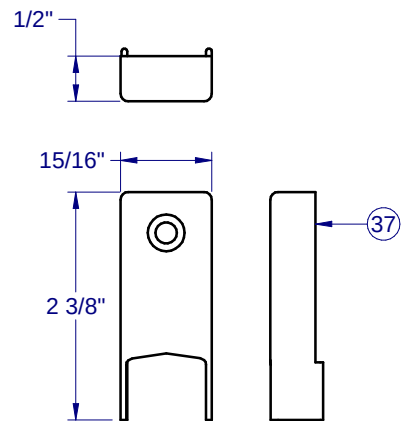
Screen, 2-Track Jamb - 2054



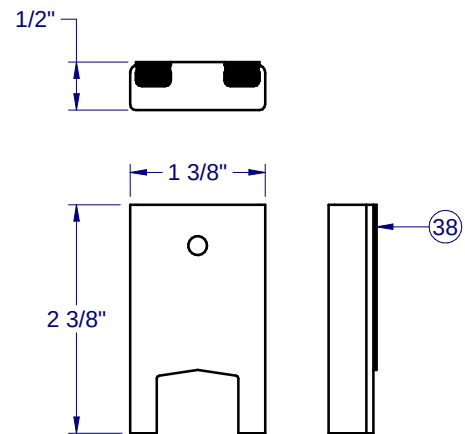
Screen, 3-Track Jamb - 2057



Panel Guide, Interlock - P-5482



Panel Guide, Lock Stile - P-5483



Bumper/Panel Guide - P-5484

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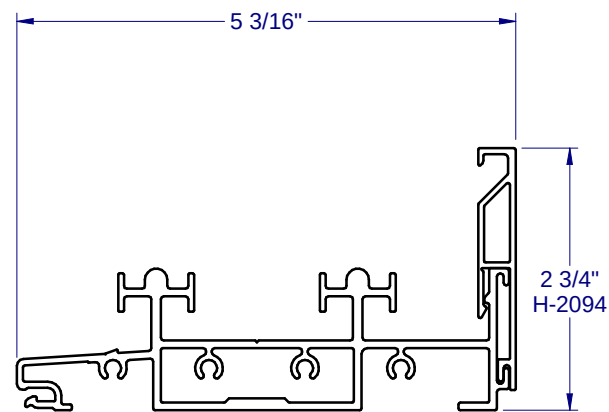
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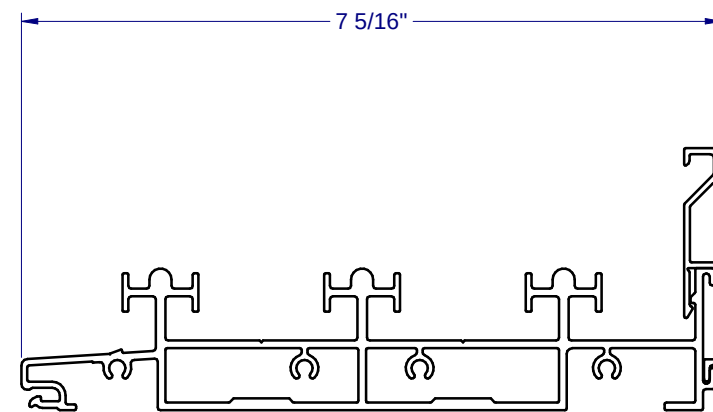
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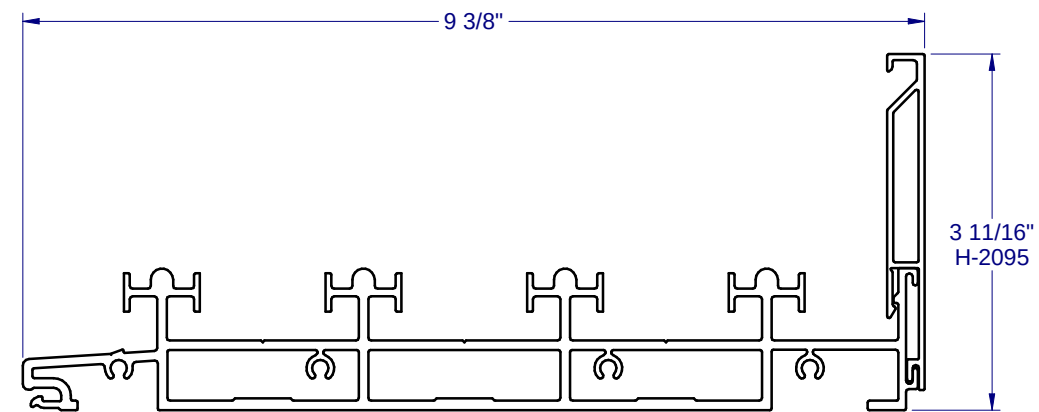
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1:2	5 OF 10



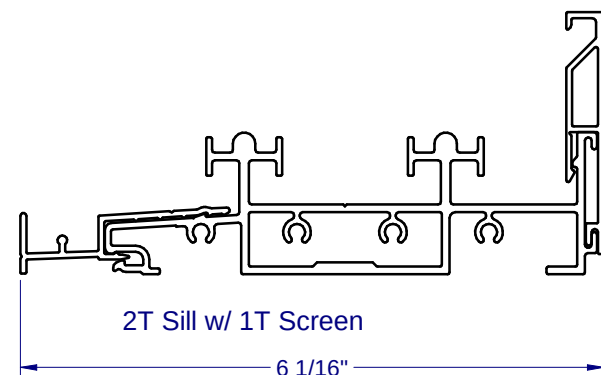
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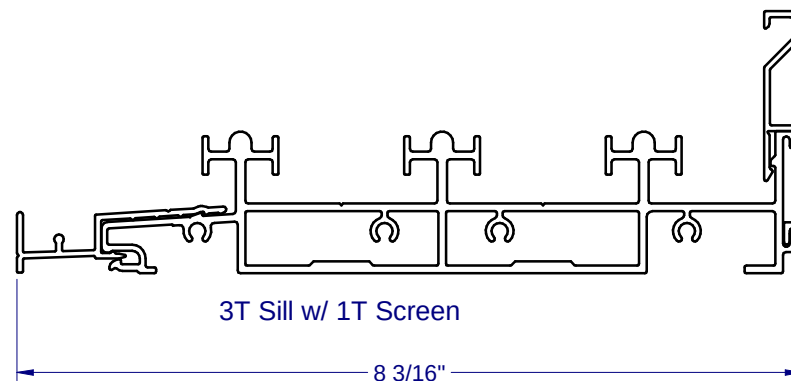
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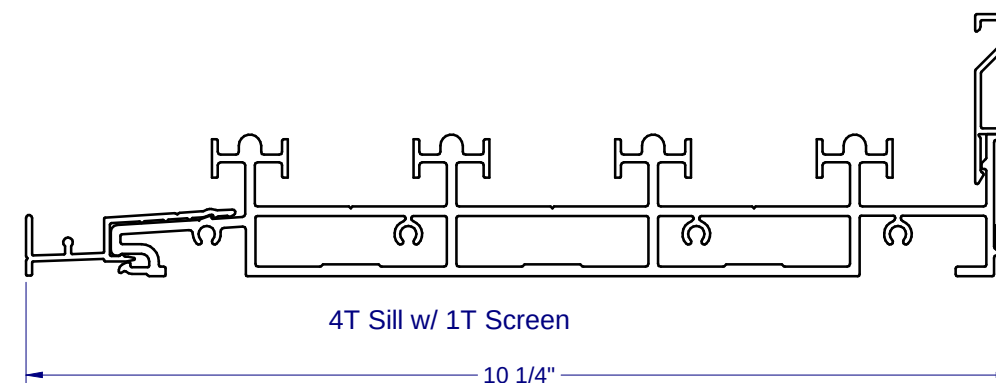
4T Sill w/Riser



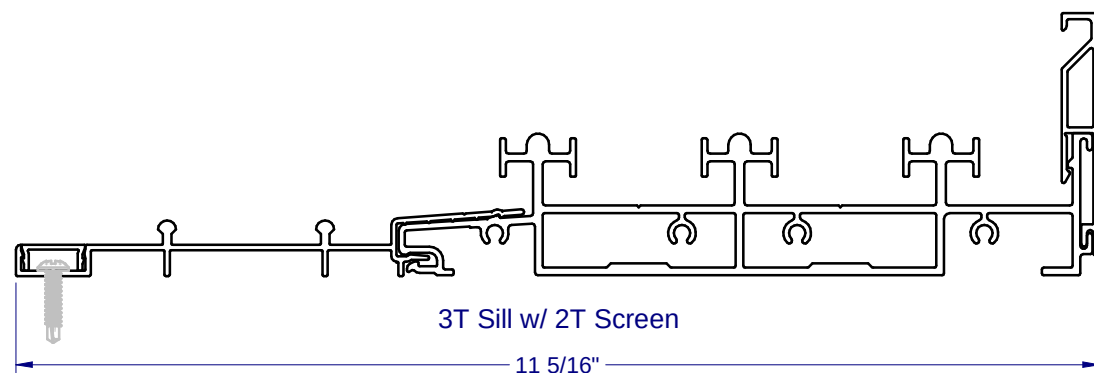
2T Sill w/ 1T Screen



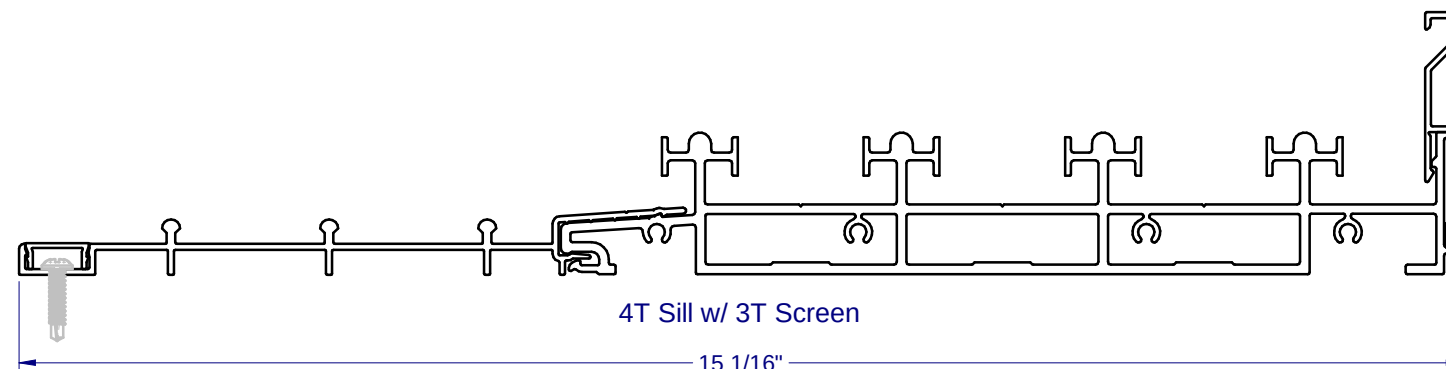
3T Sill w/ 1T Screen



4T Sill w/ 1T Screen



3T Sill w/ 2T Screen



4T Sill w/ 3T Screen



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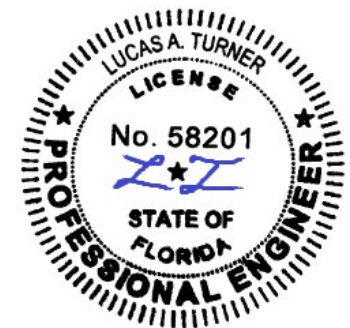
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SHEET DESCRIPTION:

TRACK WIDTHS

DRAWN BY:

MCS

DATE:

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DWG #:

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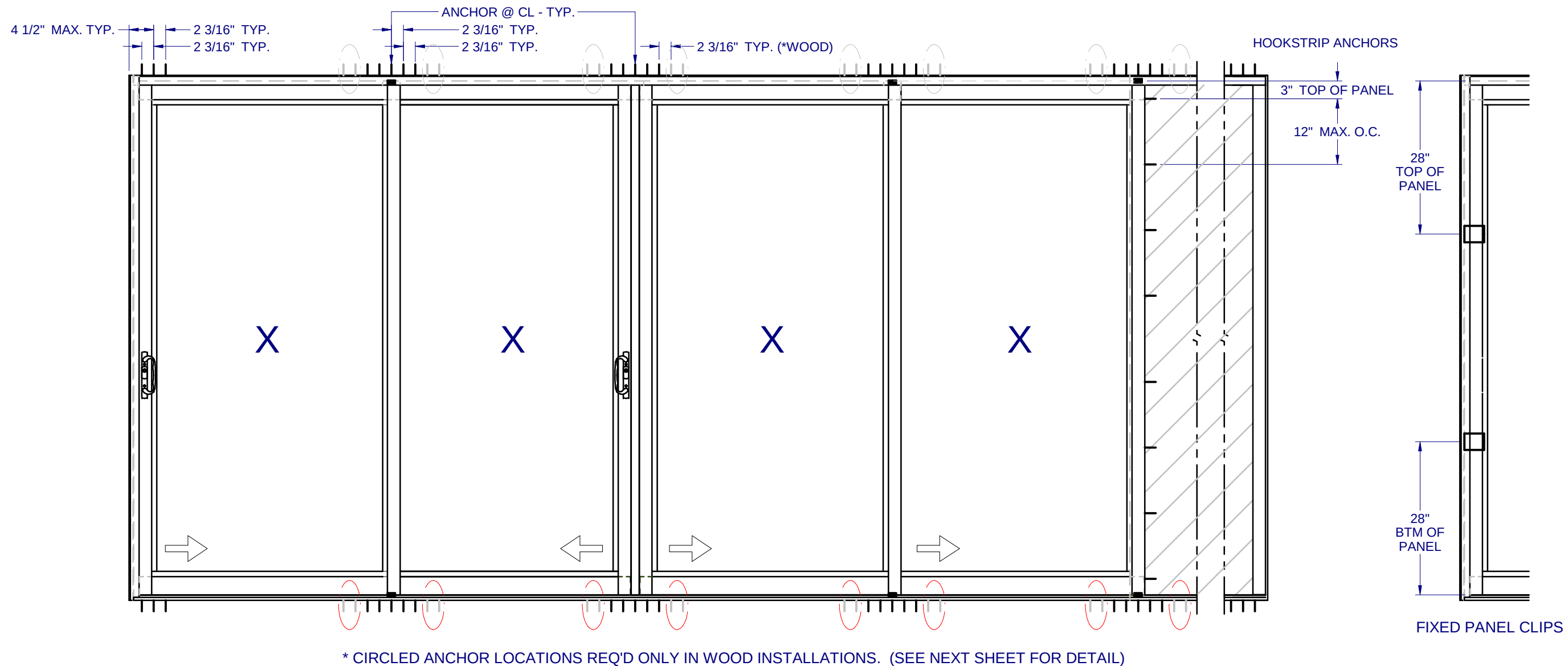
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SCALE:

1:2

SHEET

6 OF 10



NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION (SEE STAGGER DETAILS ON NEXT SHEET). SILL ANCHOR SPACING SAME AS HEAD FOR 3T AND 4T. INSTALL ONE ANCHOR AT EACH LOCATION IN HOOKSTRIP. SEE SPECIAL LOCATIONS AND SPACING FOR 2T SILL, NEXT PAGE.
2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 9.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 9.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR SOLID CONCRETE, 6" FOR CMU MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE1, SHEET 9. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)



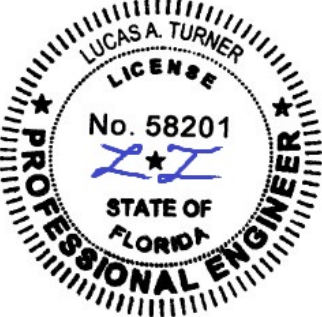
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

**3800 ALUM.
SLIDING GLASS
DOOR - IMPACT**

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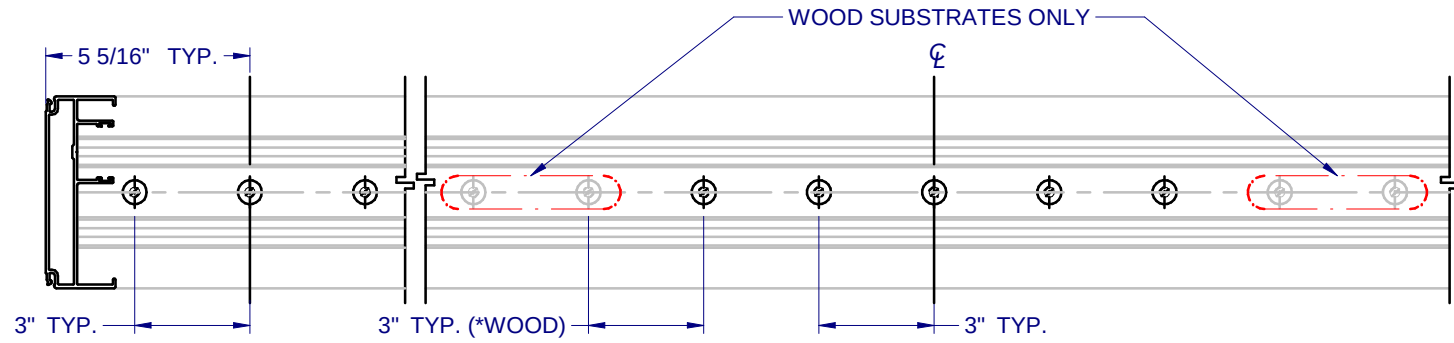


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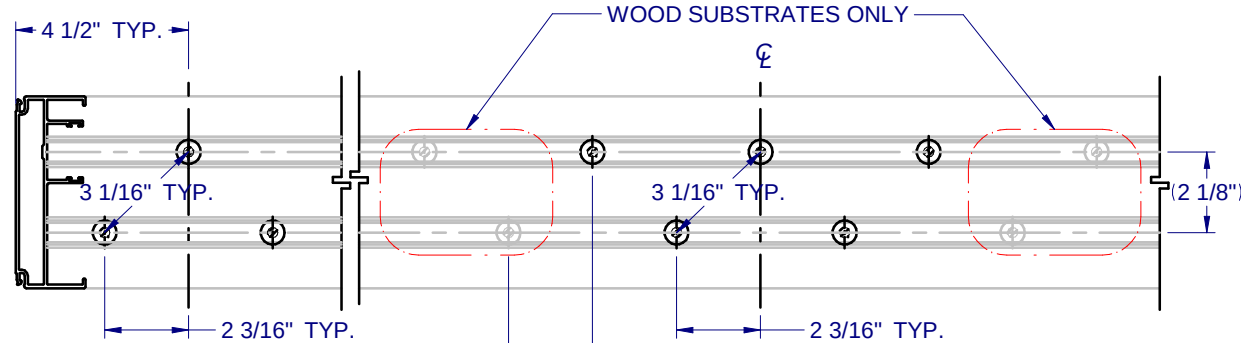
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FL PE # 58201
Turner Engineering & Consulting, Inc.
2428 Old Natchez Trc Trl
Camden, TN 38320
PH. 941-380-1574

SHEET DESCRIPTION:
ANCHOR SCHEDULE AND NOTES

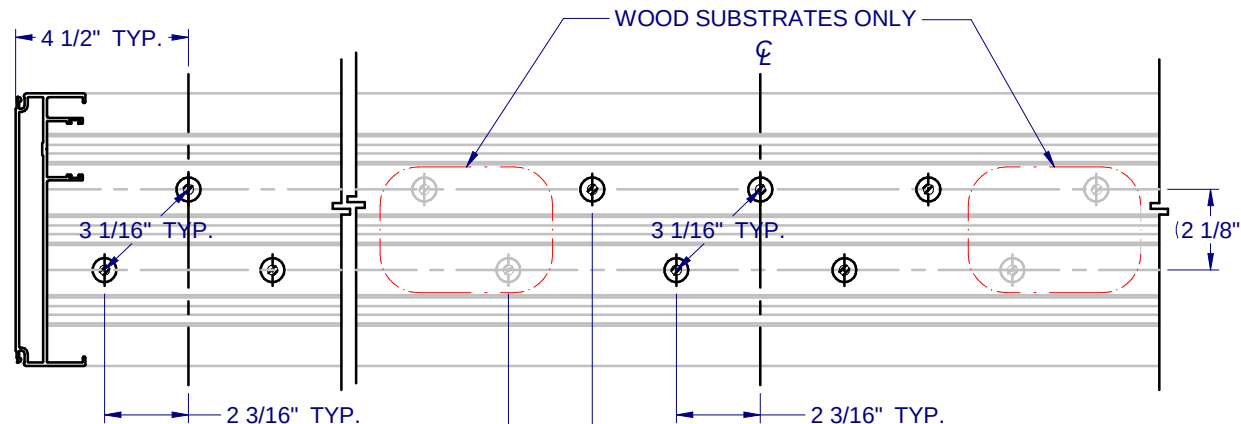
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DWG #: CWS-1156	REV.: D
SCALE: 1:20	SHEET 7 OF 10



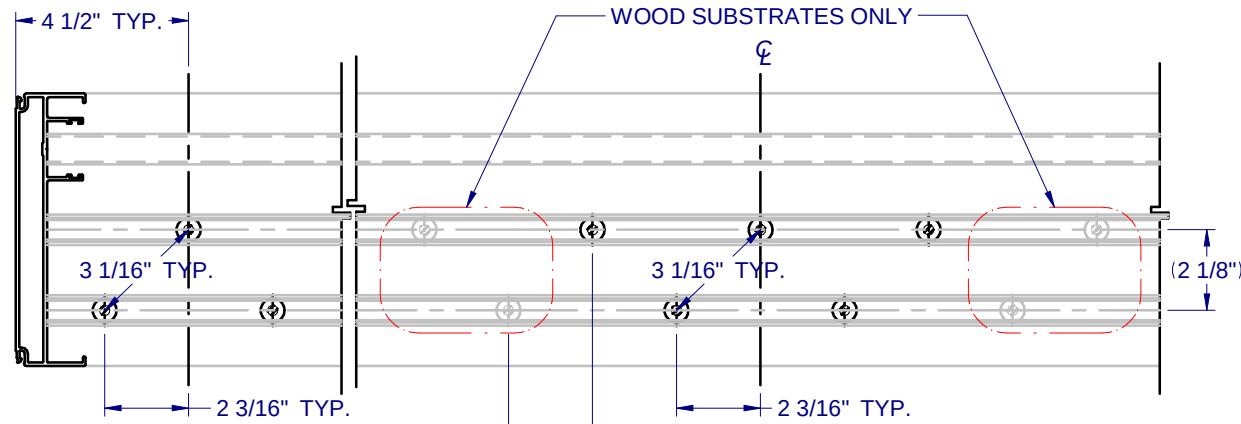
2T SILL



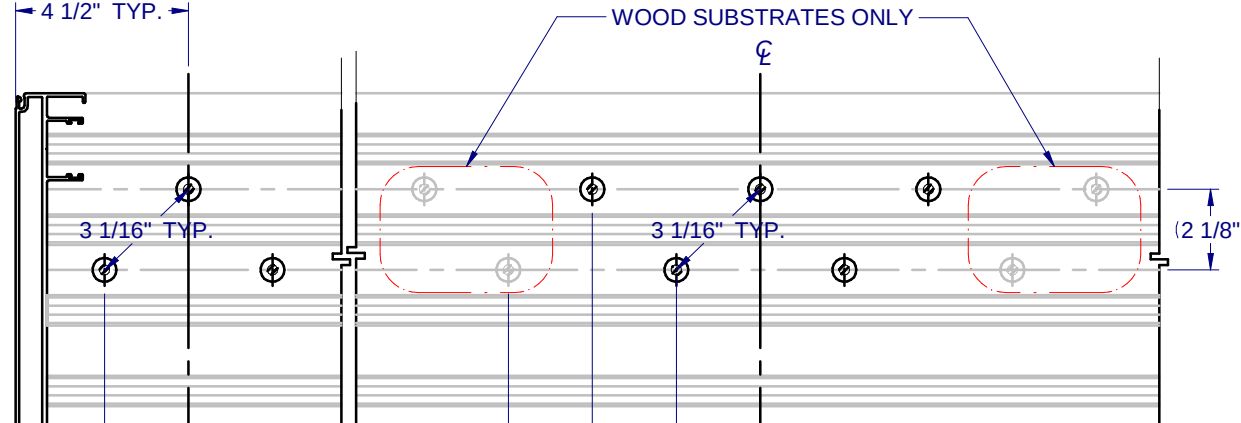
2T HEAD



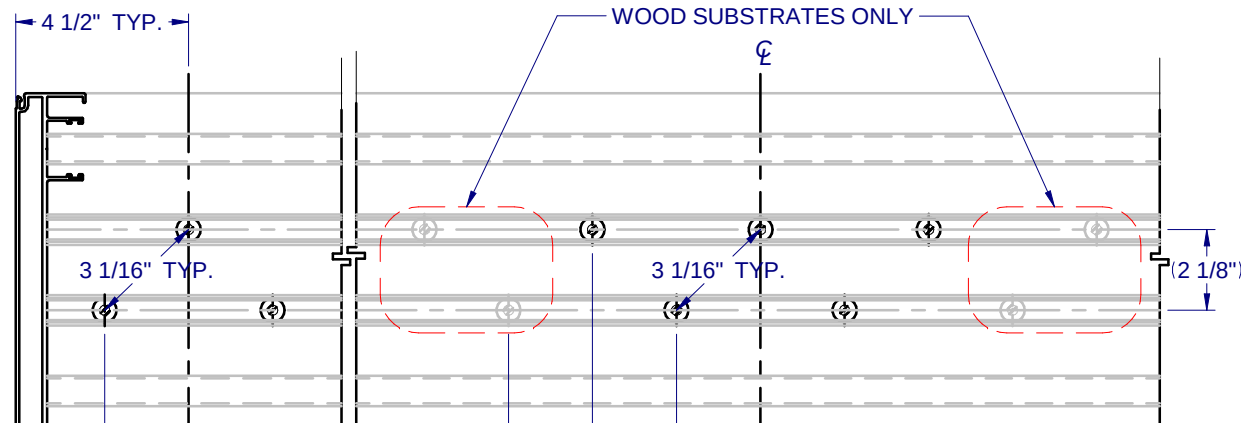
3T SILL



3T HEAD



4T SILL



4T HEAD

* CIRCLED ANCHOR LOCATIONS REQ'D ONLY IN WOOD INSTALLATIONS. NOTE: CL = CENTERLINE OF INTERLOCK OR ASTRAGAL



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SHEET DESCRIPTION:
ANCHOR PATTERNS
(STAGGER)

DRAWN BY:	DATE:
MCS	9/6/2023
DWG #:	REV.:
CWS-1156	D
SCALE:	SHEET
1:5	8 OF 10

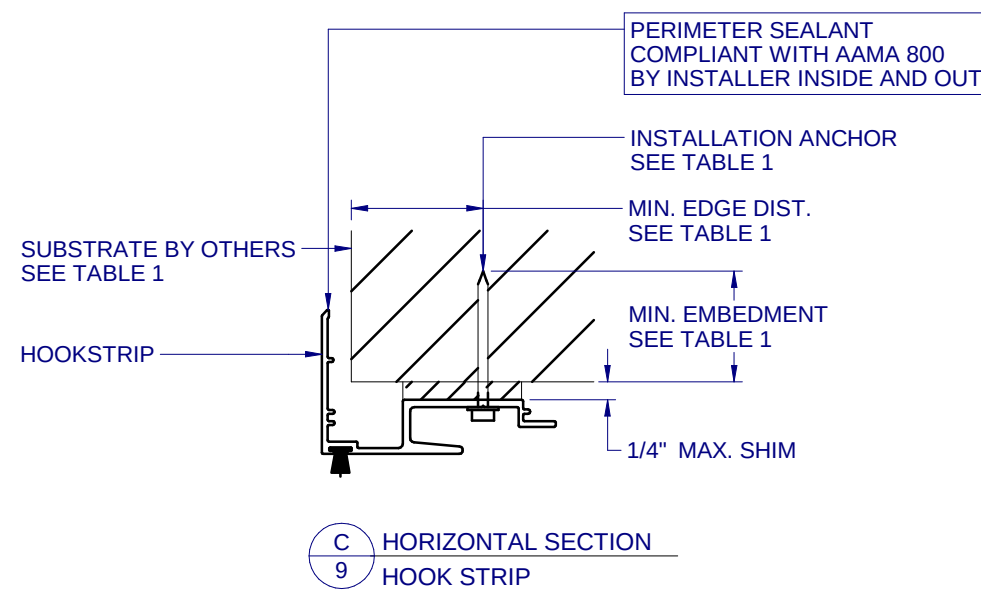
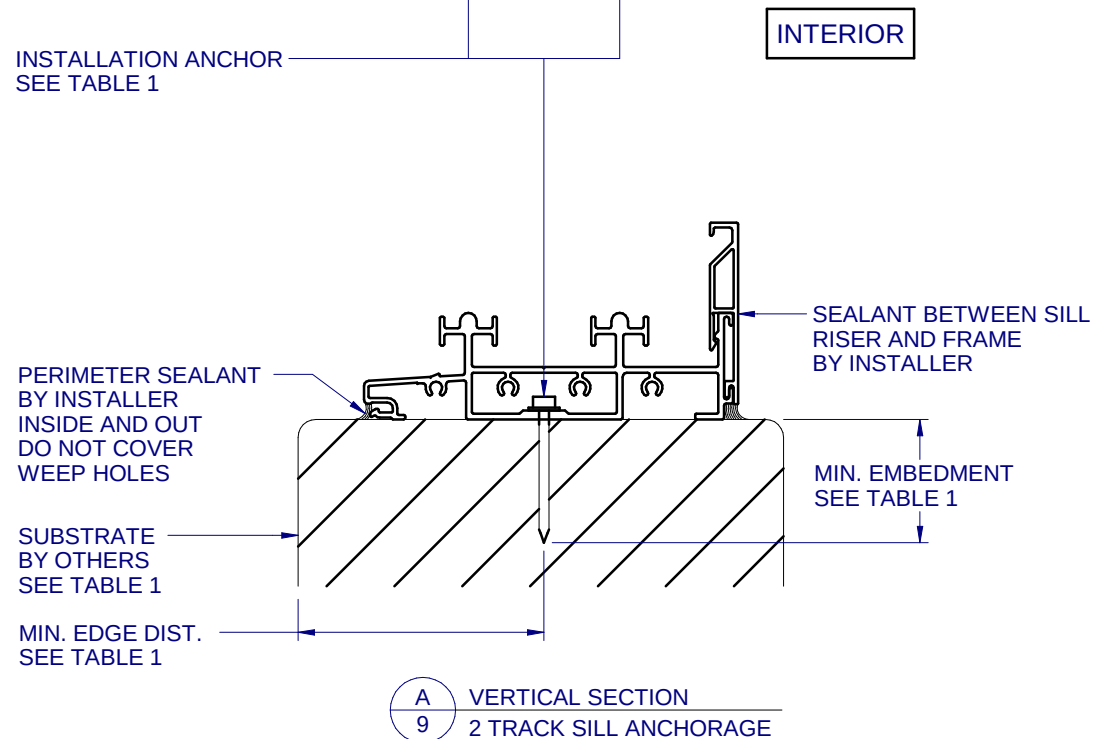
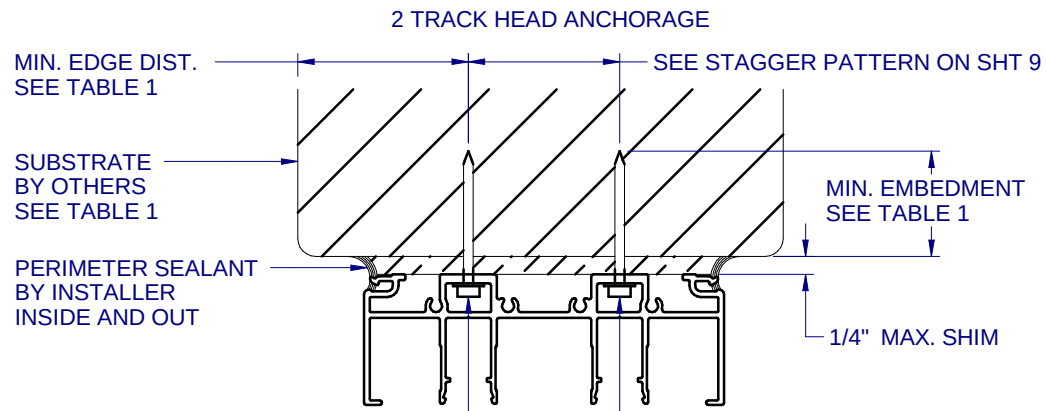


TABLE 1: APPROVED INSTALLATION FASTENERS			
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN.)	1/4" ITW TAPCON	1-1/2"	4"
CONCRETE (3.05 KSI MIN.)	1/4" DEWALT ULTRACON+	1-3/4"	2-1/2"
2X MIN. SOUTHERN PINE (G=0.55)	1/4" ITW TAPCON OR DEWALT ULTRACON+	1-3/8"	7/8"
2X MIN. SOUTHERN PINE (G=0.55)	#12 WOOD SCREW	1-3/8"	7/8"
16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN)	#12-14 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	1/2"
1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#12 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	1/2"
HOOKSTRIP ONLY: HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	1/4" DEWALT ULTRACON+	1-3/4"	2-1/2"

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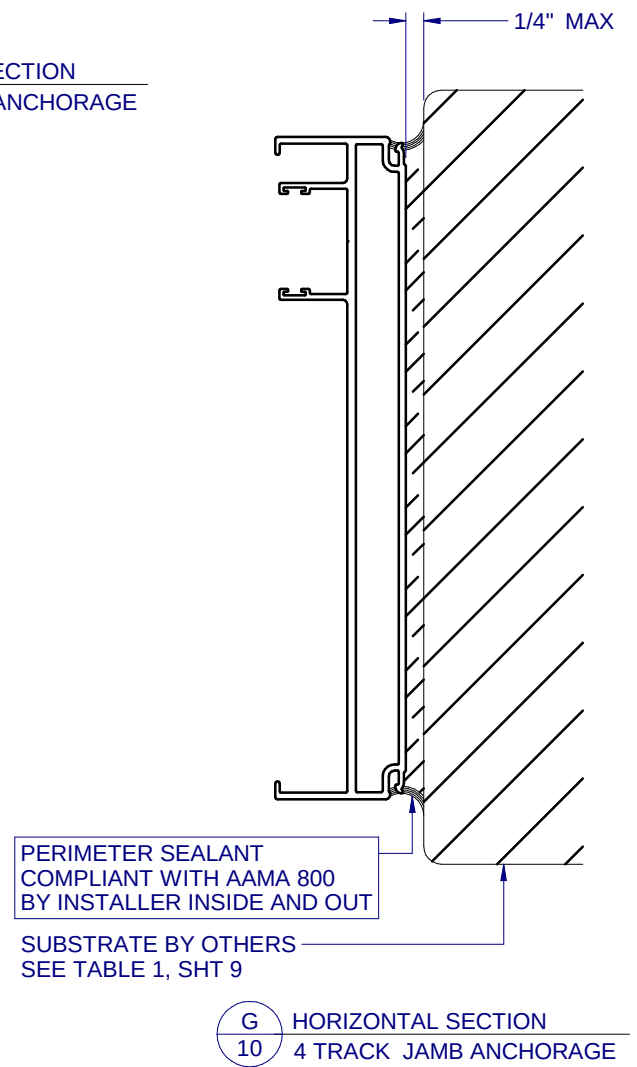
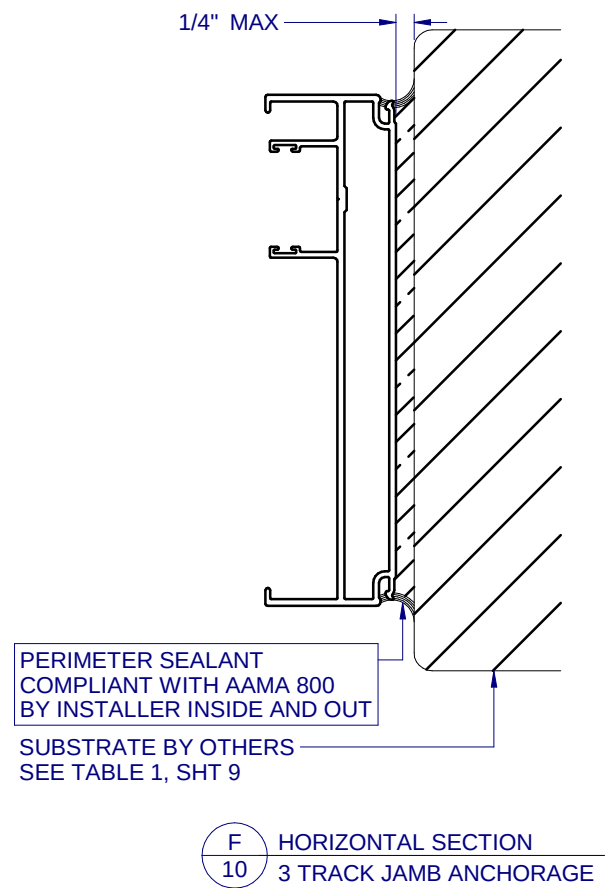
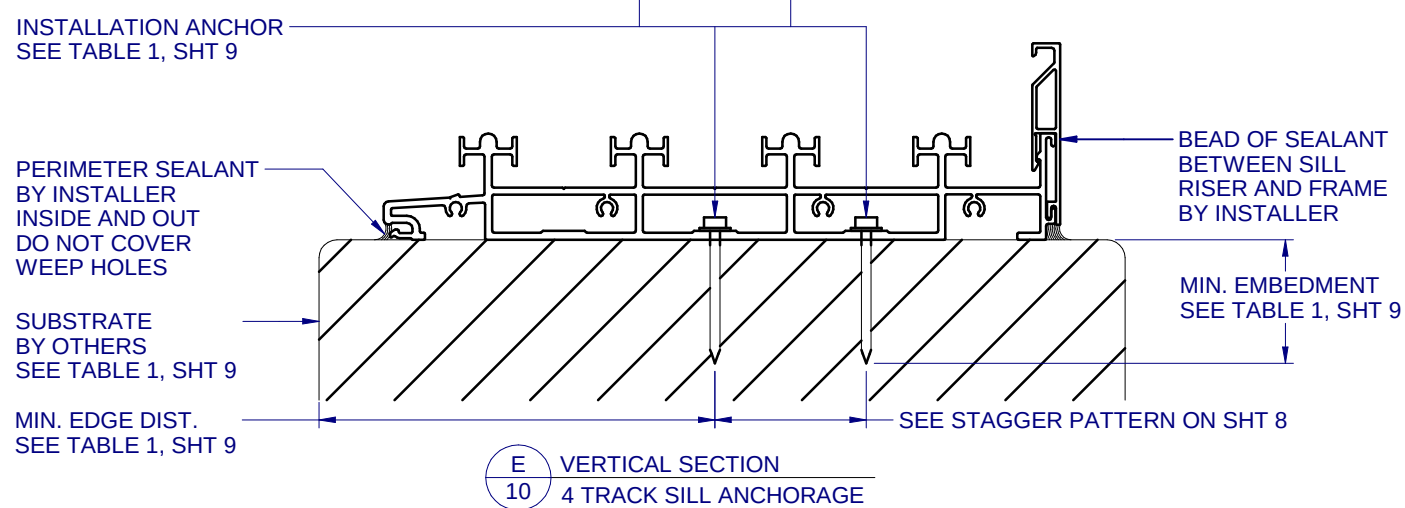
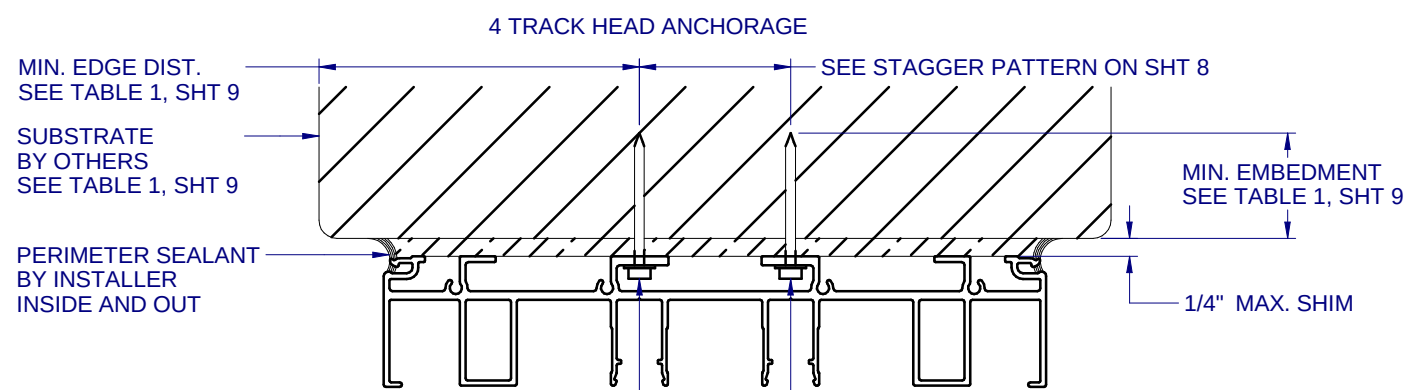
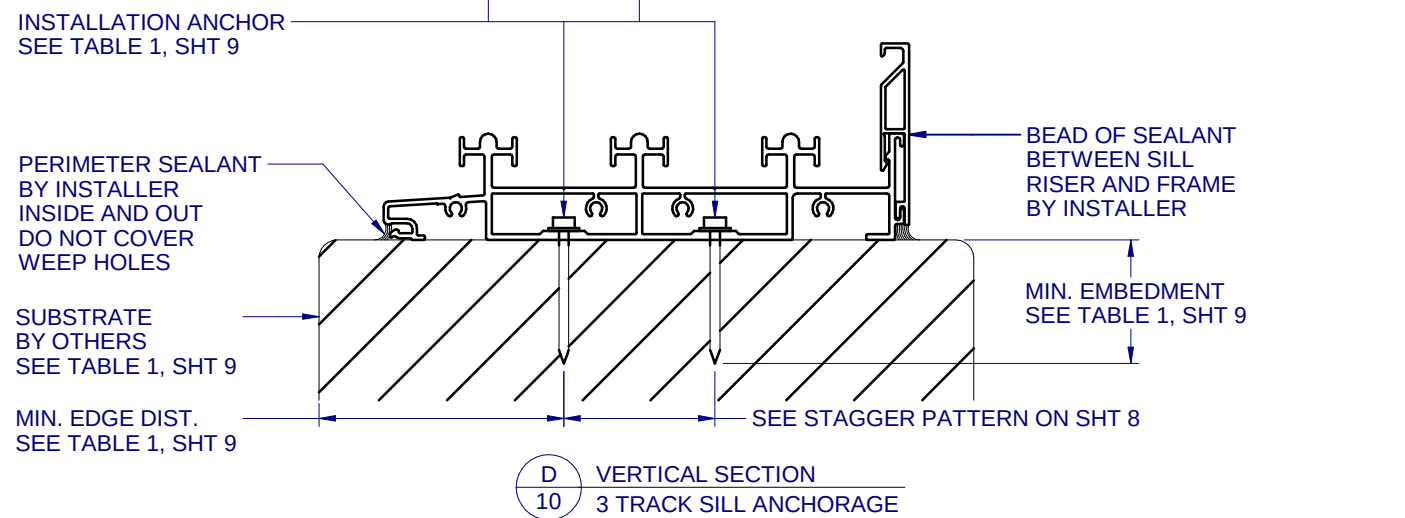
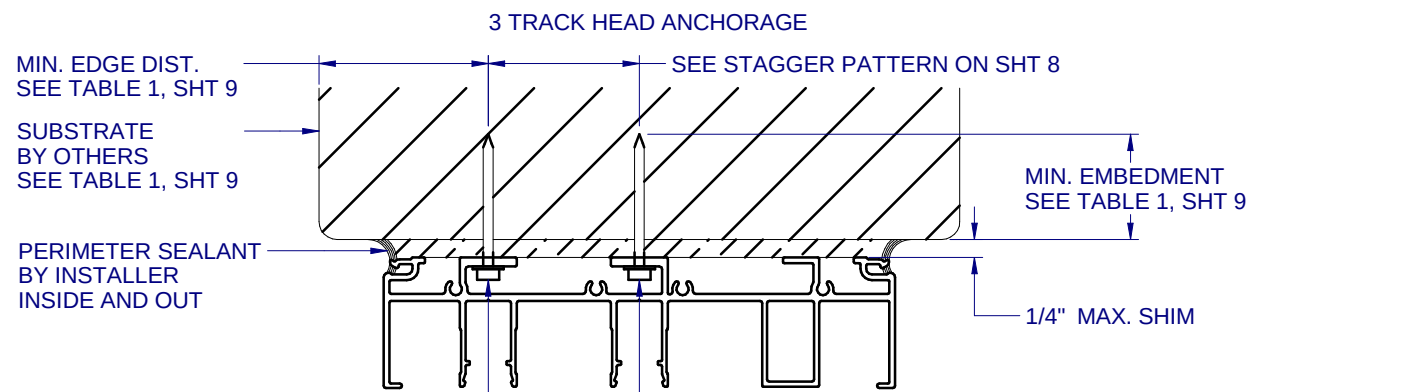


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SHEET DESCRIPTION:
INSTALLATION DETAILS
2 TRACK

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SCALE: 1:2	SHEET 9 OF 10





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SHEET DESCRIPTION:
**INSTALLATION DETAILS
3 & 4 TRACK**

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DWG #: CWS-1156	REV.: D
SCALE: 1:2	SHEET 10 OF 10