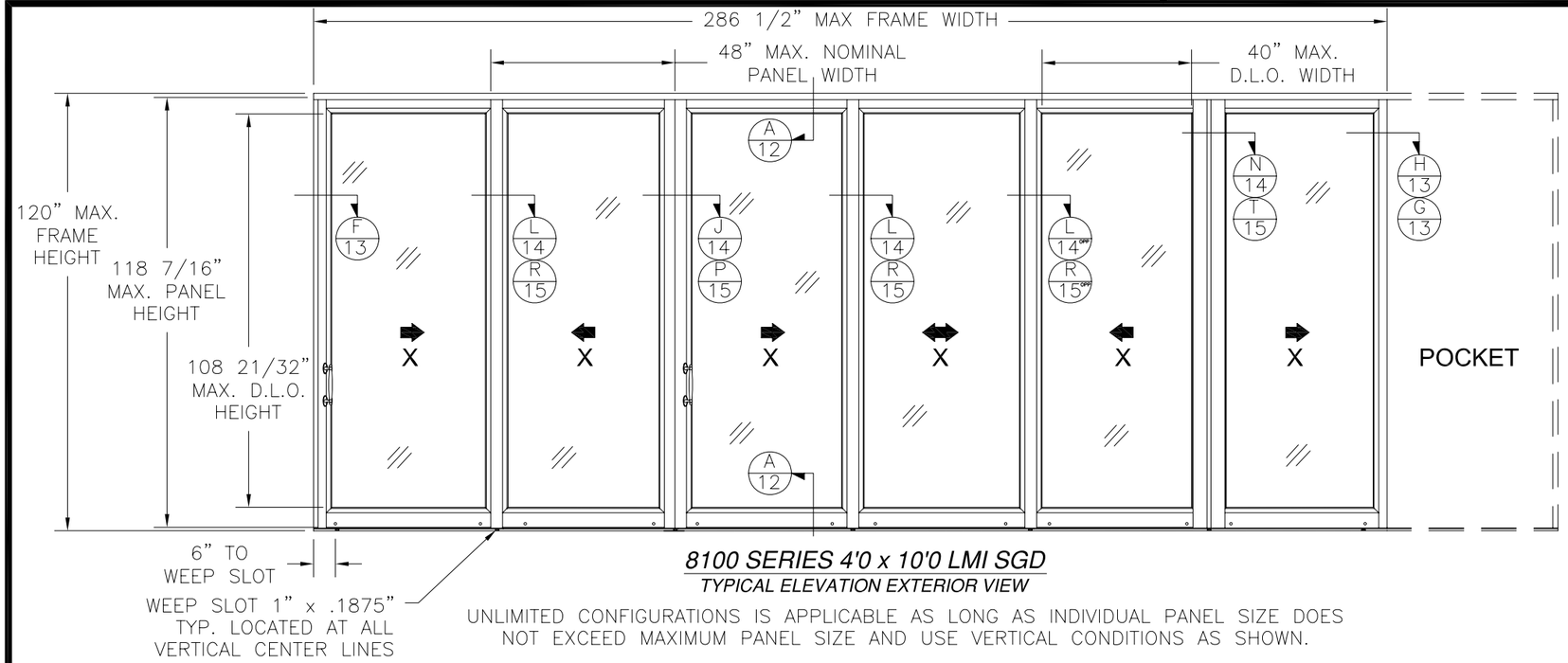
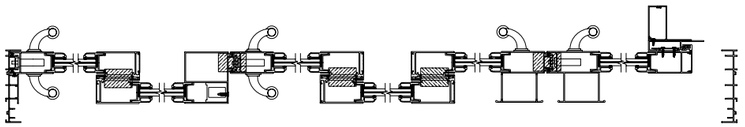


8100 SERIES 4'0 x 10'0 LMI SGD
TYPICAL ELEVATION EXTERIOR VIEW

UNLIMITED CONFIGURATIONS IS APPLICABLE AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE AND USE VERTICAL CONDITIONS AS SHOWN.

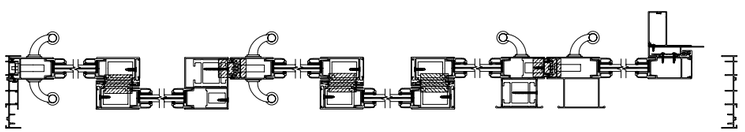


8100 SERIES 4'0 x 10'0 LMI NON-REINFORCED SGD
2 TRACK LAYOUT

NON-REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
±70PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
OPTIONAL SILL RISERS: ITEMS #36 (3 1/2") AND #37 (4 1/4")



8100 SERIES 4'0 x 10'0 LMI REINFORCED SGD
2 TRACK LAYOUT

REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
+90/-110PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
OPTIONAL SILL RISERS: ITEMS #36 (3 1/2") AND #37 (4 1/4")

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.

NOTES:

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS STATE MODIFICATIONS.
2) WOOD FRAMING/2X BUCK, 20 GA. 2X WOOD BACKED STEEL STUD OR MASONRY/CONCRETE OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. WOOD FRAMING/2X BUCK, 20 GA. 2X WOOD BACKED STEEL STUD OR MASONRY/CONCRETE OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4) FRAME MATERIAL: EXTRUDED ALUMINUM 6063–T6 .075" THICK. PANEL MATERIAL: EXTRUDED ALUMINUM 6063–T6 .080" THICK.
5) UNITS MUST BE GLAZED WITH LARGE MISSILE IMPACT SINGLE LAMINATED OR INSULATED LAMINATED GLASS AS SHOWN IN GLAZING DETAILS ON SHEETS 10 AND 11, PER ASTM E1300–04.
6) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN AREAS WHERE WIND BORNE DEBRIS PROTECTION IS REQUIRED.
7) APPROVED TO BE INSTALLED ON A 2 TRACK, 3 TRACK OR 4 TRACK FRAME SYSTEM WITH OR WITHOUT POCKETS. POCKET CAN BE INTERIOR OR EXTERIOR POCKET.
8) POCKET WALL IS NOT PART OF THIS APPROVAL. POCKET WALL MUST BE UNDER SEPERATE APPROVAL.

4'0 x 10'0 PANEL AND D.L.O. FORMULA
PANEL HEIGHT = UNIT HEIGHT – 1 9/16"
D.L.O. HEIGHT STANDARD BOTTOM RAIL = PANEL HEIGHT – 9 25/32"
D.L.O. HEIGHT TALL BOTTOM RAIL = PANEL HEIGHT – 13 3/8"
D.L.O. WIDTH = NOMINAL PANEL WIDTH – 8"

SIGNED: 09/27/2012

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SHEET NO.	DESCRIPTION
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12 – 15	CROSS SECTIONS
16 – 19	INSTALLATION DETAILS
20 – 22	COMPONENTS

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8100 SERIES LMI
REINFORCED & NON–REINFORCED
4'0 x 10'0 PANELS 2TRACK ELEVATIONS

DRAWN:	DWG NO.	REV
TJH	08–00876	C
SCALE NTS	DATE 12/07/09	SHEET 1 OF 22

STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

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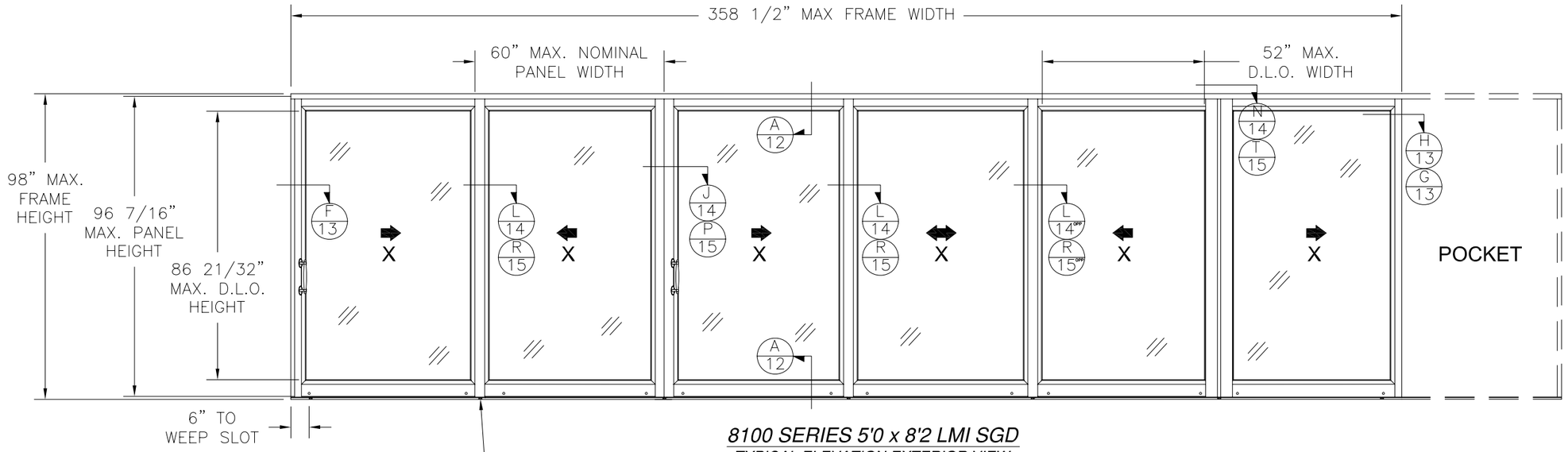

WEEP SLOT 1" x .1875" TYP. LOCATED AT ALL VERTICAL CENTER LINES

8100 SERIES 5'0 x 8'2 LMI SGD

TYPICAL ELEVATION EXTERIOR VIEW

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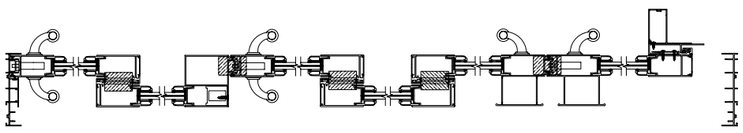

8100 SERIES 5'0 x 8'2 LMI NON-REINFORCED SGD

2 TRACK LAYOUT

NON-REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
±70PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
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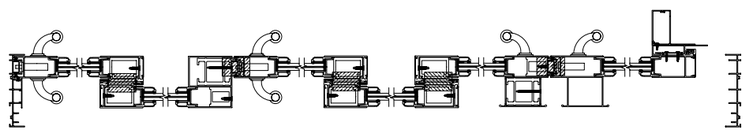

8100 SERIES 5'0 x 8'2 LMI REINFORCED SGD

2 TRACK LAYOUT

REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
+90/-110PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
OPTIONAL SILL RISERS: ITEMS #36 (3 1/2") AND #37 (4 1/4")

5'0 x 8'2 PANEL AND D.L.O. FORMULA

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D.L.O. HEIGHT STANDARD BOTTOM RAIL = PANEL HEIGHT – 9 25/32"
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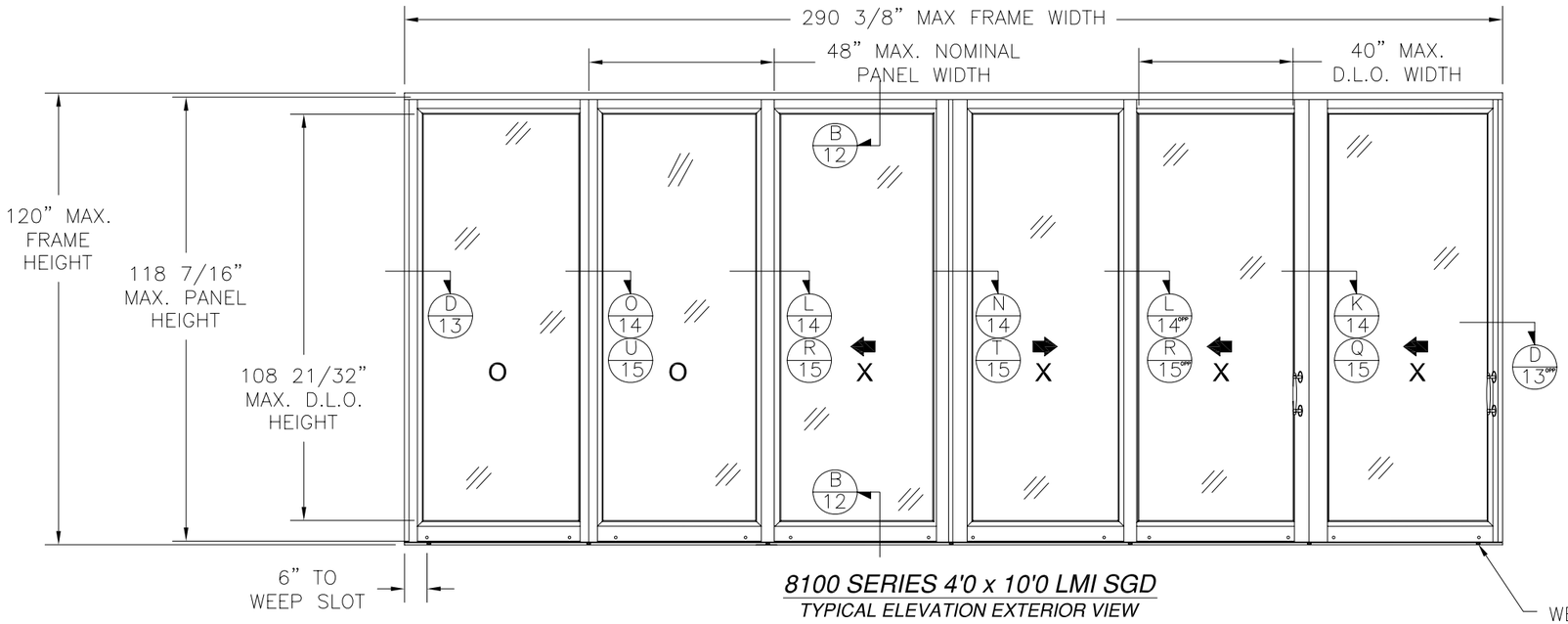

8100 SERIES 4'0 x 10'0 LMI SGD

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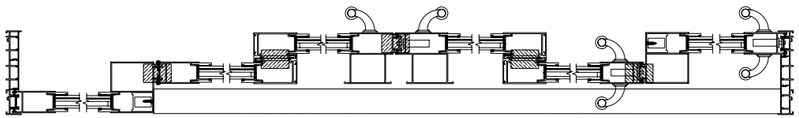


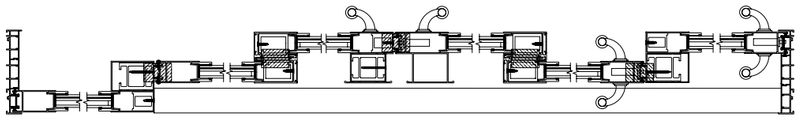
8100 SERIES 4'0 x 10'0 LMI NON-REINFORCED SGD

3 TRACK LAYOUT

NON-REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
±70PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
OPTIONAL SILL RISERS: ITEMS #36 (3 1/2") AND #37 (4 1/4")



8100 SERIES 4'0 x 10'0 LMI REINFORCED SGD

3 TRACK LAYOUT

REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
+90/-110PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
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8100 SERIES LMI
REINFORCED & NON-REINFORCED
4'0 x 10'0 PANELS 3TRACK ELEVATIONS

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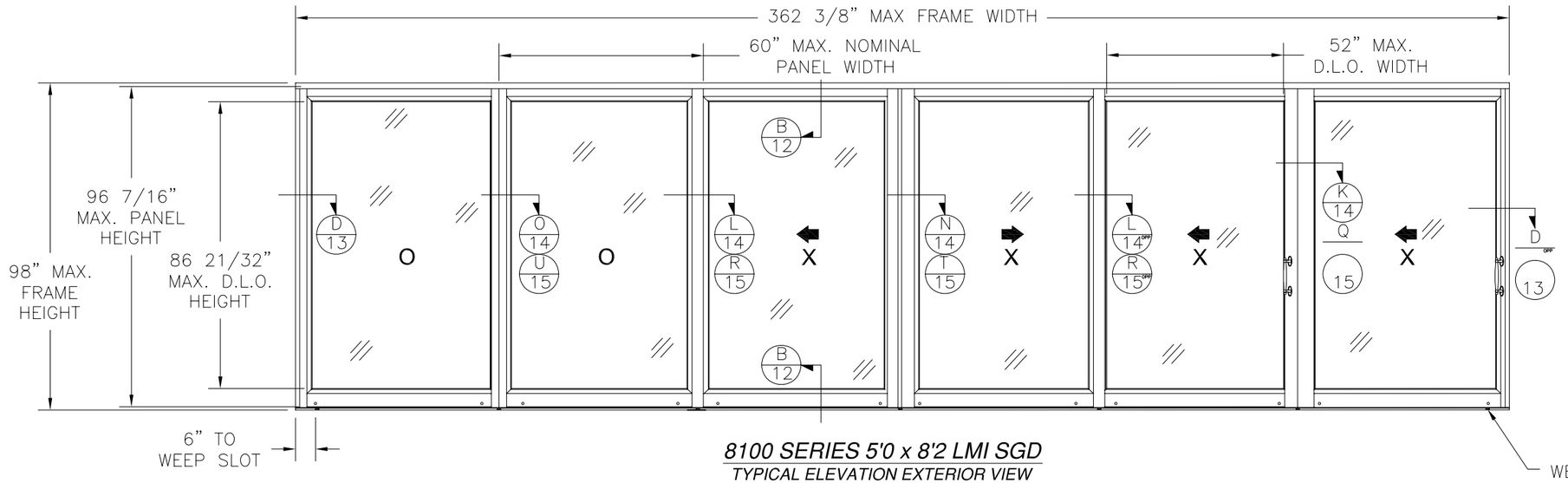

8100 SERIES 5'0 x 8'2 LMI SGD
TYPICAL ELEVATION EXTERIOR VIEW

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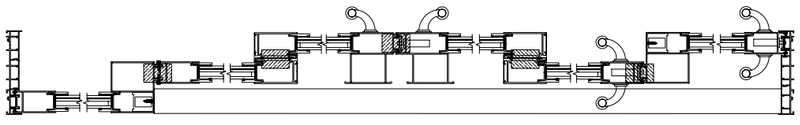

8100 SERIES 5'0 x 8'2 LMI NON-REINFORCED SGD
3 TRACK LAYOUT

NON-REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
±70PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
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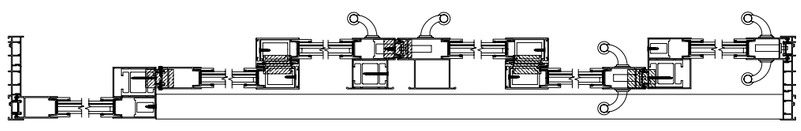

8100 SERIES 5'0 x 8'2 LMI REINFORCED SGD
3 TRACK LAYOUT

REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
+90/-110PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
OPTIONAL SILL RISERS: ITEMS #36 (3 1/2") AND #37 (4 1/4")

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8100 SERIES LMI
REINFORCED & NON-REINFORCED
5'0 x 8'2 PANELS 3TRACK ELEVATIONS

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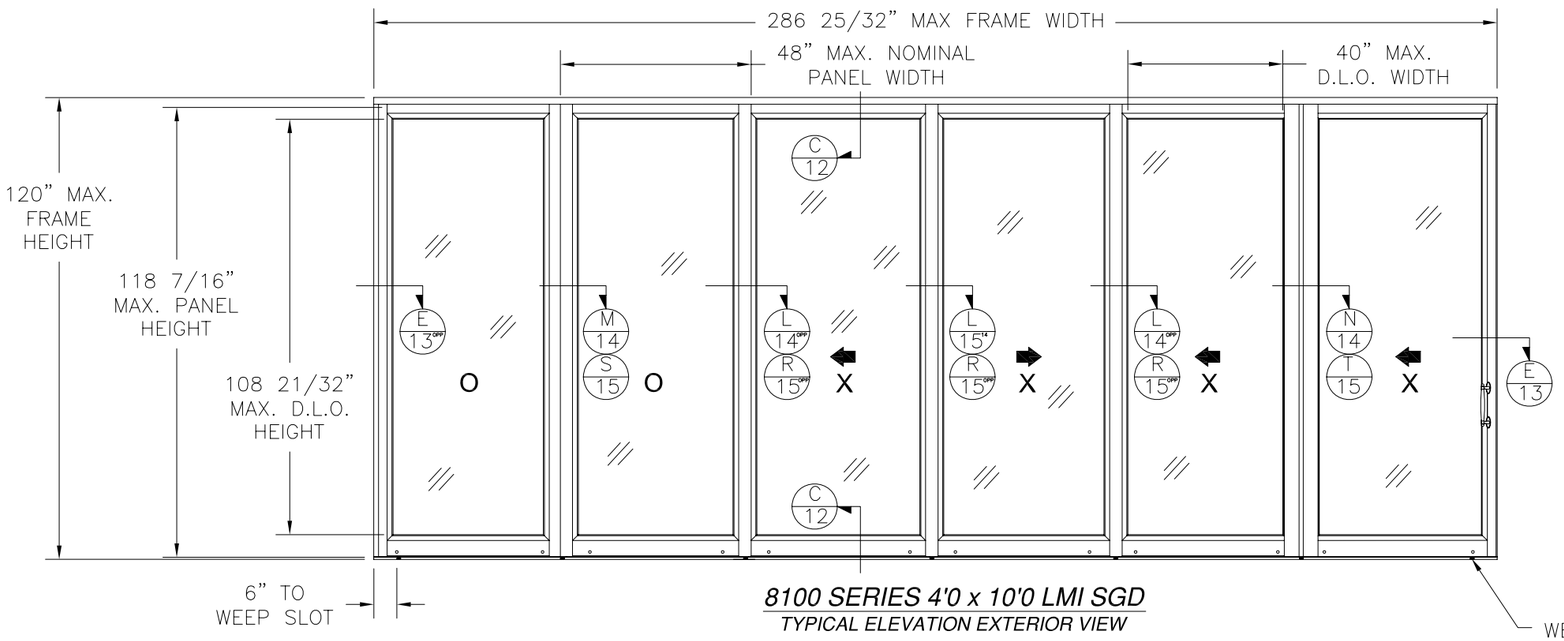

8100 SERIES 4'0 x 10'0 LMI SGD
TYPICAL ELEVATION EXTERIOR VIEW

WEEP SLOT 1" x .1875" TYP. LOCATED AT ALL VERTICAL CENTER LINES

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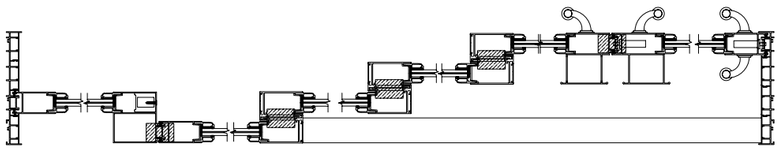
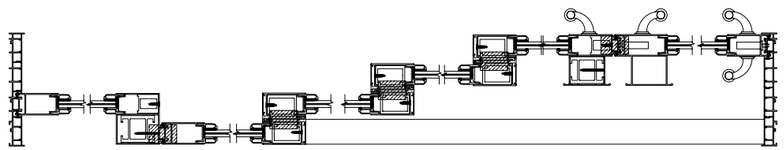


8100 SERIES 4'0 x 10'0 LMI NON-REINFORCED SGD
4 TRACK LAYOUT
NON-REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
±70PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
OPTIONAL SILL RISERS: ITEMS #36 (3 1/2") AND #37 (4 1/4")



8100 SERIES 4'0 x 10'0 LMI REINFORCED SGD
4 TRACK LAYOUT
REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
+90/-110PSF	*LARGE MISSILE IMPACT*

REQUIRED SILL RISER: ITEM #35 (3")
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4'0 x 10'0 PANELS 4TRACK ELEVATIONS

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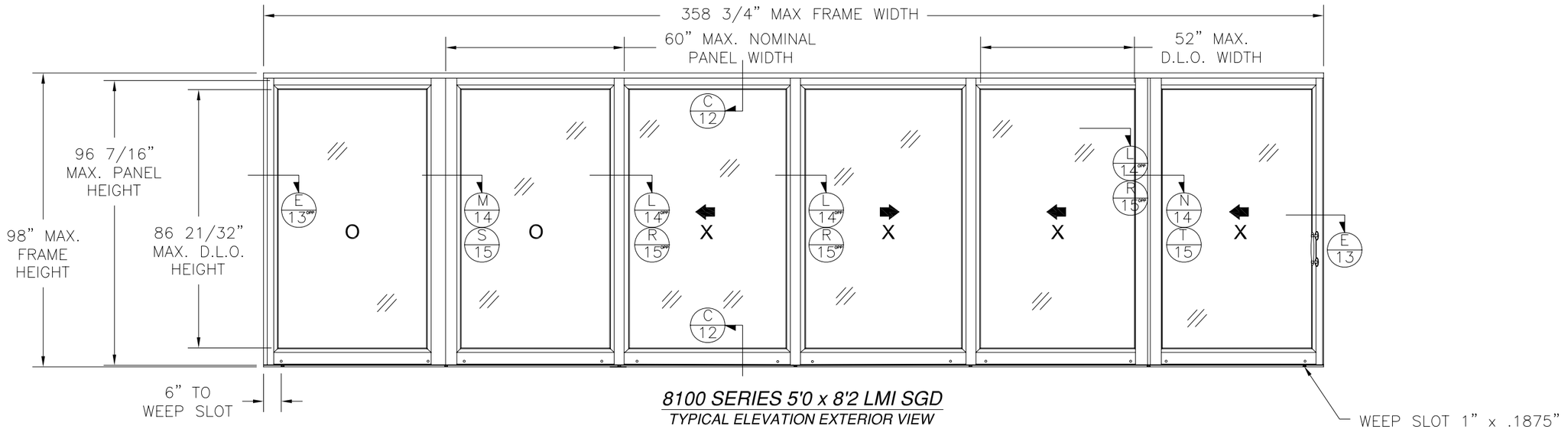

8100 SERIES 5'0 x 8'2 LMI SGD
TYPICAL ELEVATION EXTERIOR VIEW

WEEP SLOT 1" x .1875" TYP. LOCATED AT ALL VERTICAL CENTER LINES

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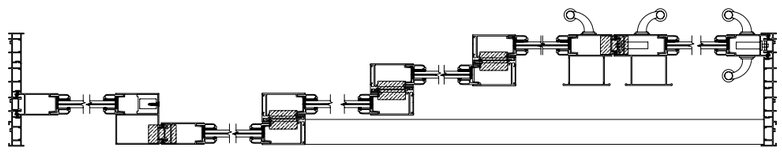

8100 SERIES 5'0 x 8'2 LMI NON-REINFORCED SGD
4 TRACK LAYOUT

NON-REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
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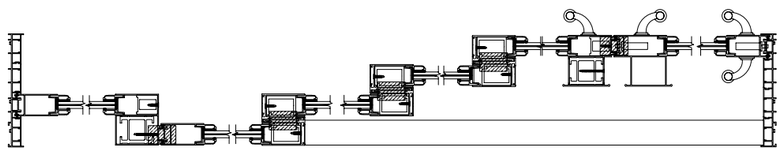

8100 SERIES 5'0 x 8'2 LMI REINFORCED SGD
4 TRACK LAYOUT

REINFORCED

DESIGN PRESSURE RATING	*IMPACT RATING*
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8100 SERIES LMI
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5'0 x 8'2 PANELS 4TRACK ELEVATIONS

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STATE OF TEXAS
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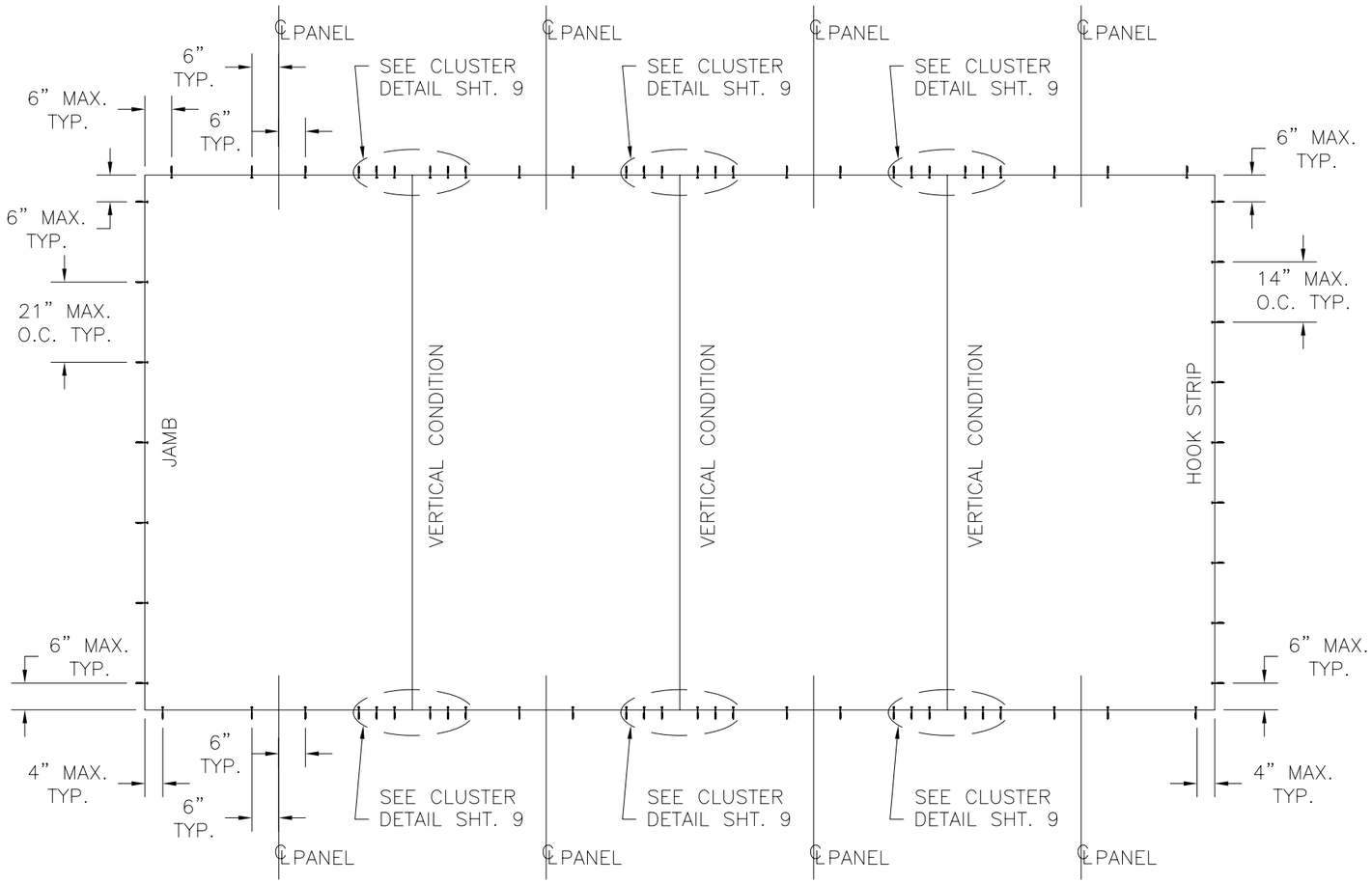

4'0 x 10'0 ANCHORING LAYOUT NON–REINFORCED AND REINFORCED UNITS

4PANEL UNIT SHOWN, APPLICABLE TO ALL CONFIGURATIONS

ANCHORING NOTES:

1) ALL FRAME SYSTEMS, 2 TRACK, 3 TRACK AND 4 TRACK, HAVE TWO ANCHORS AT EACH LOCATION IN HEAD, SILL AND JAMBS.
2) ALL FRAME SYSTEMS, 2 TRACK, 3 TRACK AND 4 TRACK, HAVE ONE ANCHOR AT EACH LOCATION IN HOOK STRIP.
3) FOR ANCHORING INTO MASONRY/CONCRETE THROUGH A PROPERLY SECURED 1X NON–STRUCTURAL WOOD BUCK USE 1/4" ITW TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE AND 2 3/8" MINIMUM SEPARATION. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4) FOR ANCHORING INTO WOOD FRAMING, 2X BUCK OR 2X WOOD BACKED 20 GA. MINIMUM STEEL STUD USE #14 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
5) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE LOAD BEARING SHIM TO BE 1/4".
6) ALL FASTENERS TO BE CORROSION RESISTANT.
7) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
   A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
   B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 2,700 PSI.
   C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
   D. METAL FRAMING – 20 GA (.040) MINIMUM THICKNESS WITH 2X WOOD BACKING.

SIGNED: 09/27/2012

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4'0 x 10'0 ANCHORING LAYOUTS AND NOTES

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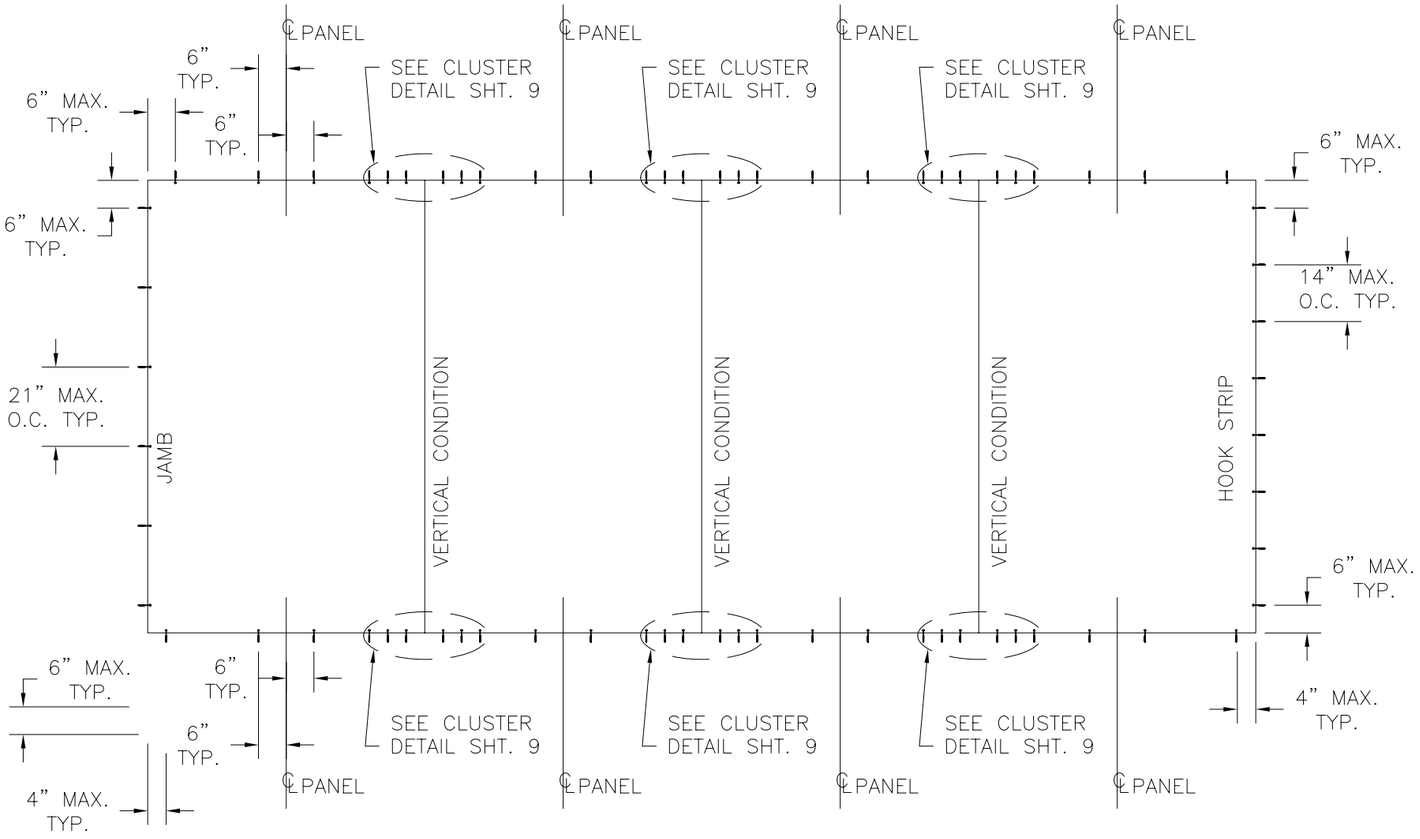

5'0 x 8'2 ANCHORING LAYOUT NON–REINFORCED AND REINFORCED UNITS

4PANEL UNIT SHOWN, APPLICABLE TO ALL CONFIGURATIONS

FOR ANCHORING NOTES SEE SHEET 7.

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5'0 x 8'2 ANCHORING LAYOUT

DRAWN:	DWG NO.	REV
TJH	08–00876	C
SCALE NTS	DATE 12/07/09	SHEET 8 OF 22

STATE OF TEXAS
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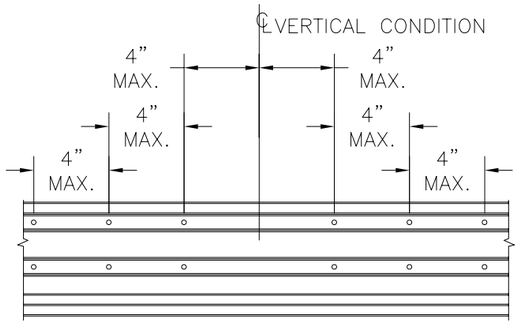
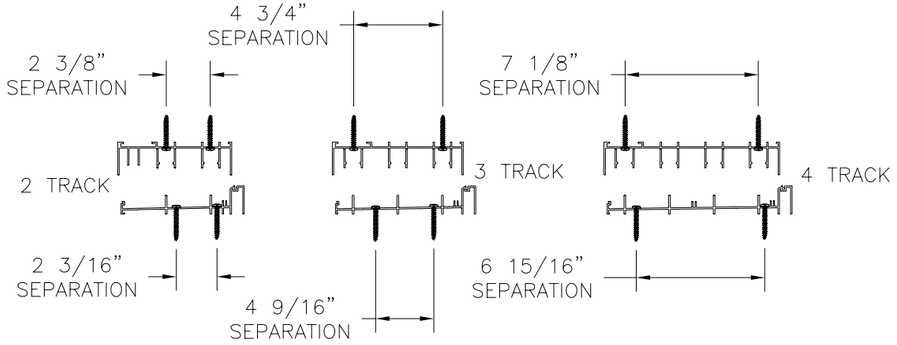
101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889



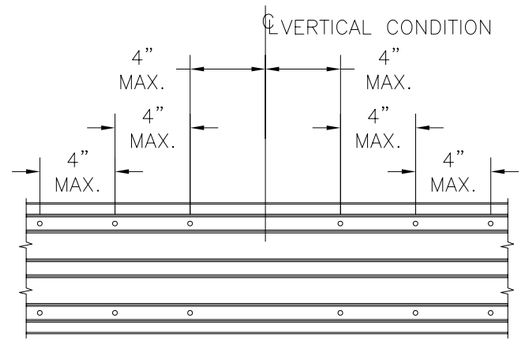
CLUSTER DETAIL
2-TRACK SYSTEM



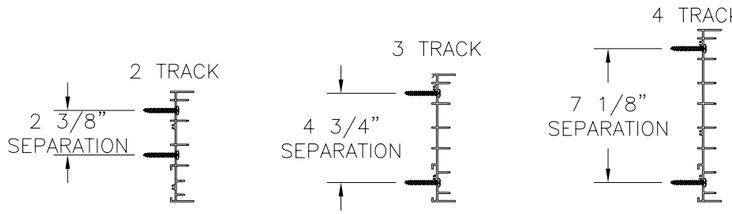
HEAD & SILL ANCHOR LOCATIONS
SEE DETAILS IN SHEETS 16, 17 AND 18

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.

HOOKSTRIP ANCHOR LOCATIONS
SEE DETAILS IN SHEET19



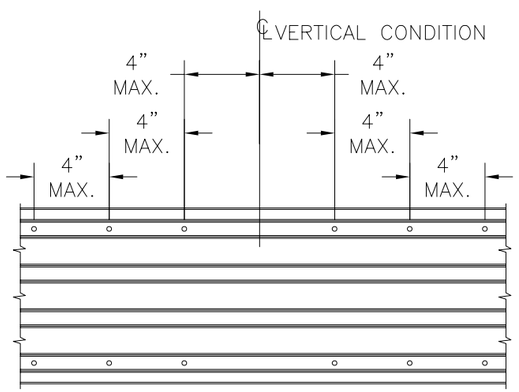
CLUSTER DETAIL
3-TRACK SYSTEM



JAMB ANCHOR LOCATIONS
SEE DETAILS IN SHEETS 16, 17 AND 18

PANEL CONSTRUCTION:
ALL PANELS ARE CONSTRUCTED FROM EXTRUDED 6063–T6 ALUMINUM. VERTICAL STILES ARE NOTCHED TO RECEIVE HORIZONTAL RAILS. EACH RAIL IS SECURED TO STILES WITH (3) #10 x 1 1/4" SQ. DRIVE SCREW AT EACH END, ITEM #47. ALL PANELS HAVE AN INTERIOR AND EXTERIOR APPLIED GLAZING STOP.

FRAME CONSTRUCTION:
EACH FRAME CORNER IS NOTCHED AND BUTTED. HEAD AND SILL ARE SECURED TO JAMBS WITH #7 x 1" TYPE F SCREW, ITEM #48, (2) AT EACH CORNER ON 2 TRACK AND 3 TRACK FRAME AND (3) AT EACH CORNER ON 4 TRACK FRAME.



CLUSTER DETAIL
4-TRACK SYSTEM

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SCALE NTS	DATE 12/07/09	SHEET 9 OF 22

STATE OF TEXAS
LUIS R. LOMAS
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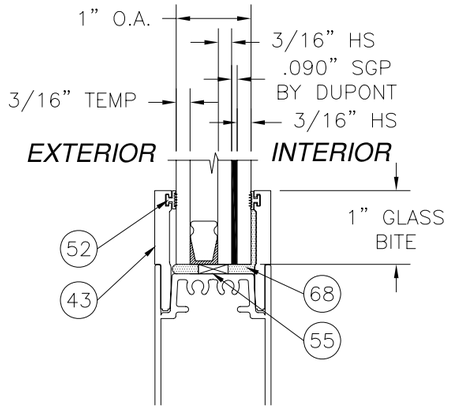
PROFESSIONAL ENGINEER

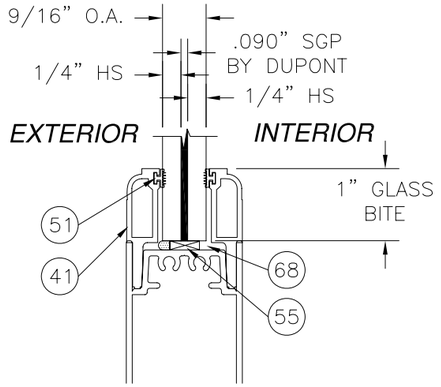
Luis R. Lomas P.E.
Texas No. 101889

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	FS-04641	2 TRACK WS FRAME HEAD	KEYMARK	ALUMINUM 6063-T6
2	FS-04788	2 TRACK WS FRAME JAMB	KEYMARK	ALUMINUM 6063-T6
3	S-44119	2 TRACK NSWS SILL PAN	KEYMARK	ALUMINUM 6063-T6
4	S-44121	2 TRACK WS SILL INSERT	KEYMARK	ALUMINUM 6063-T6
5	S-44116	2 TRACK SILL PAN	KEYMARK	ALUMINUM 6063-T6
6	S-44122	2 TRACK SILL INSERT	KEYMARK	ALUMINUM 6063-T6
7	FS-02180	3 TRACK FRAME HEAD	KEYMARK	ALUMINUM 6063-T6
8	FS-02181	3 TRACK FRAME JAMB	KEYMARK	ALUMINUM 6063-T6
9	S-44123	3 TRACK SILL PAN	KEYMARK	ALUMINUM 6063-T6
10	S-44117	3 TRACK SILL INSERT	KEYMARK	ALUMINUM 6063-T6
11	FS-02071	4 TRACK FRAME HEAD	KEYMARK	ALUMINUM 6063-T6
12	FS-02070	4 TRACK FRAME JAMB	KEYMARK	ALUMINUM 6063-T6
13	S-44118	4 TRACK SILL PAN	KEYMARK	ALUMINUM 6063-T6
14	S-22124	4 TRACK SILL INSERT	KEYMARK	ALUMINUM 6063-T6
15	FS-01882	FRAME HEAD INSERT	KEYMARK	ALUMINUM 6063-T6
16	FS-01883	FRAME JAMB INSERT	KEYMARK	ALUMINUM 6063-T6
17	FH-01869	TOP RAIL	KEYMARK	ALUMINUM 6063-T6
18	FH-04723	BOTTOM RAIL	KEYMARK	ALUMINUM 6063-T6
19	FS-04766	TALL BOTTOM RAIL	KEYMARK	ALUMINUM 6063-T6
20	NPG	PANEL GUIDE		NYLON
21	FH-01871	LOCK STILE	KEYMARK	ALUMINUM 6063-T6
22	FH-05044	INTERLOCK STILE	KEYMARK	ALUMINUM 6063-T6
23	FH-04767	FEMALE BUTT STILE EXT. OFFSET	KEYMARK	ALUMINUM 6063-T6
24	FH-04750	MALE BUTT STILE EXT. OFFSET	KEYMARK	ALUMINUM 6063-T6
25	FH-04826	FEMALE BUTT STILE INT. OFFSET	KEYMARK	ALUMINUM 6063-T6
26	P7569AM	DUST PAD 1.244" x .5" x 2.34"		
27	FS-04747	BUMPER JAMB INSERT	KEYMARK	ALUMINUM 6063-T6
28	FS-04754	PLAIN STILE INTERLOCK	KEYMARK	ALUMINUM 6063-T6
29	FS-04755	PLAIN STILE INTERLOCK COVER	KEYMARK	ALUMINUM 6063-T6
30	FS-05382	INTERLOCK SNAP COVER	KEYMARK	ALUMINUM 6063-T6
31	FS-02726	STILE JAMB INSERT	KEYMARK	ALUMINUM 6063-T6
32	FS-02726	PANEL STILE JAMB INSERT	KEYMARK	ALUMINUM 6063-T6
33		NOT USED		
34		NOT USED		
35	FH-03653	3" SILL RISER	KEYMARK	ALUMINUM 6063-T6
36	FH-03654	3 1/2" SILL RISER	KEYMARK	ALUMINUM 6063-T6
37	FH-03655	4 1/4" SILL RISER	KEYMARK	ALUMINUM 6063-T6
38	FS-02173	HOOK STRIP	KEYMARK	ALUMINUM 6063-T6
39	FS-04476	HOOK STRIP WALL COVER	KEYMARK	ALUMINUM 6063-T6
40	FS-04477	HOOK STRIP WALL MOUNT	KEYMARK	ALUMINUM 6063-T6
41	FH-01877	9/16" HORIZONTAL GLASS STOP	KEYMARK	ALUMINUM 6063-T6
42	FH-01878	9/16" VERTICAL GLASS STOP	KEYMARK	ALUMINUM 6063-T6

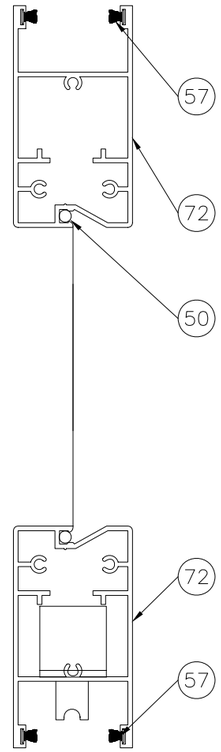
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



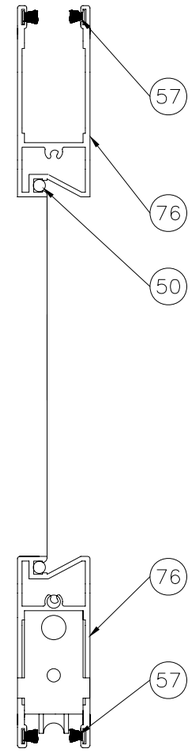
GLAZING TYPE A
LARGE MISSILE IMPACT
REINFORCED UNITS



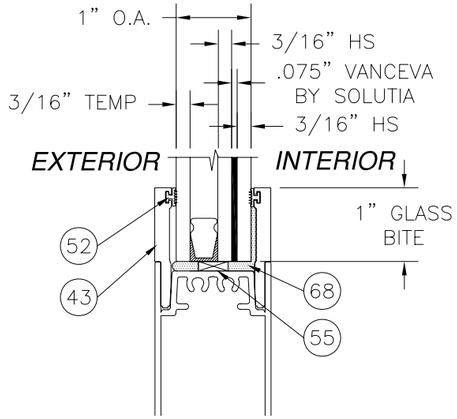
GLAZING TYPE C
LARGE MISSILE IMPACT
REINFORCED UNITS



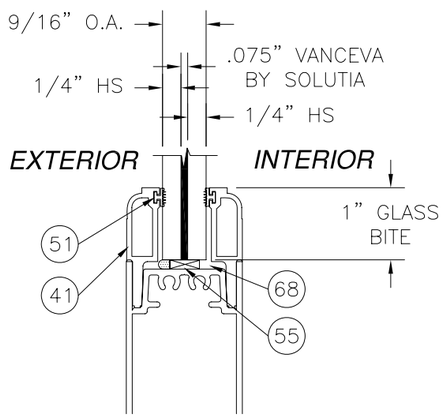
MT SCREEN
VERTICAL CROSS
SECTION
TO BE USED WITH 2TRACK,
2TRACK RETRO, 3TRACK
AND 4TRACK FRAME SYSTEMS



BOX SCREEN
VERTICAL CROSS
SECTION
TO BE USED WITH 2TRACK WS
AND 2TRACK RETRO WS
FRAME SYSTEMS



GLAZING TYPE B
LARGE MISSILE IMPACT
REINFORCED UNITS



GLAZING TYPE D
LARGE MISSILE IMPACT
REINFORCED UNITS

PARTS LIST CONTINUED
ON SHEET 11

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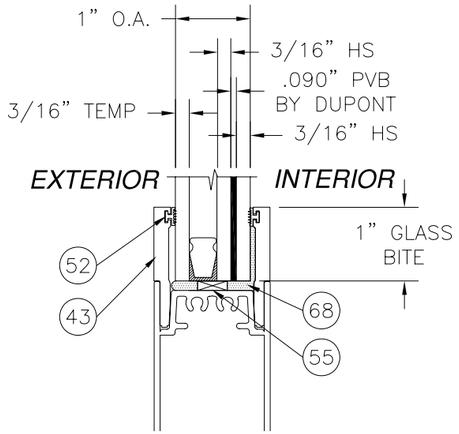
DRAWN:	DWG NO.	REV
TJH	08-00876	C
SCALE NTS	DATE 12/07/09	SHEET 10 OF 22

Luis R. Lomas P.E.
Texas No. 101889

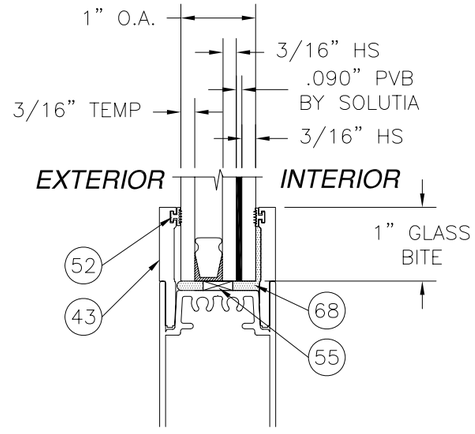
PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
43	FS-01879	1" HORIZONTAL GLASS STOP	KEYMARK	ALUMINUM 6063-T6
44	FS-01880	1" VERTICAL GLASS STOP	KEYMARK	ALUMINUM 6063-T6
45	FH-02642	6000 BUTT STILE REINFORCING BAR	KEYMARK	ALUMINUM 6063-T6
46	FH-05045	INTERLOCK REINFORCING BAR	KEYMARK	ALUMINUM 6063-T6
47	FH-03916	FEMALE BUTT STILE REINFORCING BAR	KEYMARK	ALUMINUM 6063-T6
48	FS-02210	FRAME HEAD COVER	KEYMARK	ALUMINUM 6063-T6
49	FS-02208	SILL COVER	KEYMARK	ALUMINUM 6063-T6
50		SCREEN SPLINE		
51	TP983	9/16" GLAZING VINYL		VINYL
52	TP1051	1" GLAZING VINYL		VINYL
53	#1988-9000	TANDEM ROLLER		
54	2468	DUAL POINT MORTISE LOCK & KEEPER		
55	TP990	GLASS SETTING BLOCK		
56	TP876	INTERLOCK BUMPER		RUBBER
57	W333517K0000	FINSEAL .187 x .350		
58	W332217K0000	FINSEAL .187 x .240		
59	W231417K0000	FINSEAL .187 x .140		
60	131017	#8 x 1/2" PH TEK SCREW		
61	S-44115	2 TRACK NS INSERT		
62	131018	#8 x 3/8" PH TYPE B SS		18-8 SS
63	131004	#10 x 1 1/4" TYPE F SS		
64	131020	#7 x 5/8' PH TYPE A SS		410 SS
65	131011	#8 x 2" FH TEK SCREW		410 SS
66	131009	#10 x 3/4" FH TEK SCREW		410 SS
67	LCS068-N5	SNAP IN SILL GATE		PLASTIC
68	SIKAFAST 552	GLAZING COMPOUND	SIKA	URETHANE
69	S-44114	2 TRACK RETRO SILL PAN	KEYMARK	ALUMINUM 6063-T6
70	S-44120	2 TRACK NS/WS RETRO SILL PAN	KEYMARK	ALUMINUM 6063-T6
71		LMI GLAZING SEE SHEETS 10 AND 11		
72	FH-02727	MT SCREEN TOP/BOTTOM RAIL	KEYMARK	ALUMINUM 6063-T6
73	FH-02728	MT SCREEN STILE	KEYMARK	ALUMINUM 6063-T6
74	FH-02729	MT SCREEN STILE W/SEAL	KEYMARK	ALUMINUM 6063-T6
75	FS-02730	MT SCREEN ASTRAGAL	KEYMARK	ALUMINUM 6063-T6
76	FH-02300	BOX SCREEN TOP/BOTTOM RAIL	KEYMARK	ALUMINUM 6063-T6
77	FH-02395	BOX SCREEN STILE	KEYMARK	ALUMINUM 6063-T6
78	FS-02209	BOX SCREEN SWEEP	KEYMARK	ALUMINUM 6063-T6
79	FS-02650	BOX SCREEN ASTRAGAL	KEYMARK	ALUMINUM 6063-T6
80	7500 A04	SIGNITURE HANDLE SET		
81	FS-02068	2 TRACK FRAME HEAD	KEYMARK	ALUMINUM 6063-T6
82	FS-02067	2 TRACK FRAME JAMB	KEYMARK	ALUMINUM 6063-T6
83		#8 x 3/4" PH TEK SCREW		
84		#10 x 3/4" PH TEK SCREW		

PARTS LIST CONTINUED FROM SHEET 10

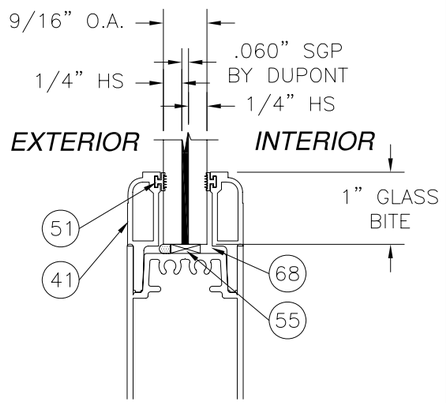
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



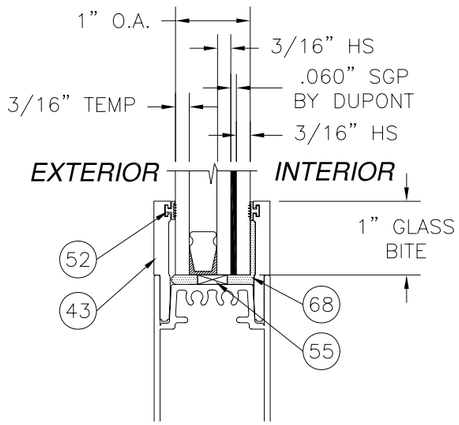
GLAZING TYPE E
LARGE MISSILE IMPACT
NON-REINFORCED UNITS



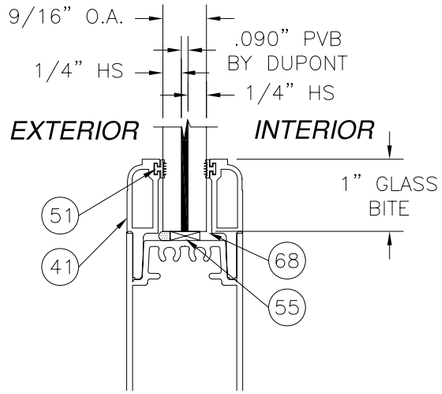
GLAZING TYPE G
LARGE MISSILE IMPACT
NON-REINFORCED UNITS



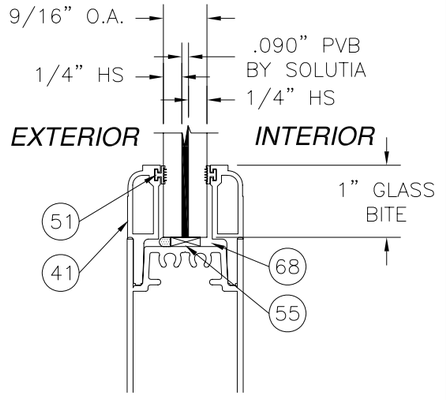
GLAZING TYPE I
LARGE MISSILE IMPACT
NON-REINFORCED UNITS



GLAZING TYPE F
LARGE MISSILE IMPACT
NON-REINFORCED UNITS



GLAZING TYPE H
LARGE MISSILE IMPACT
NON-REINFORCED UNITS



GLAZING TYPE J
LARGE MISSILE IMPACT
NON-REINFORCED UNITS

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DRAWN:	DWG NO.	REV
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SCALE NTS	DATE 12/07/09	SHEET 11 OF 22

STATE OF TEXAS
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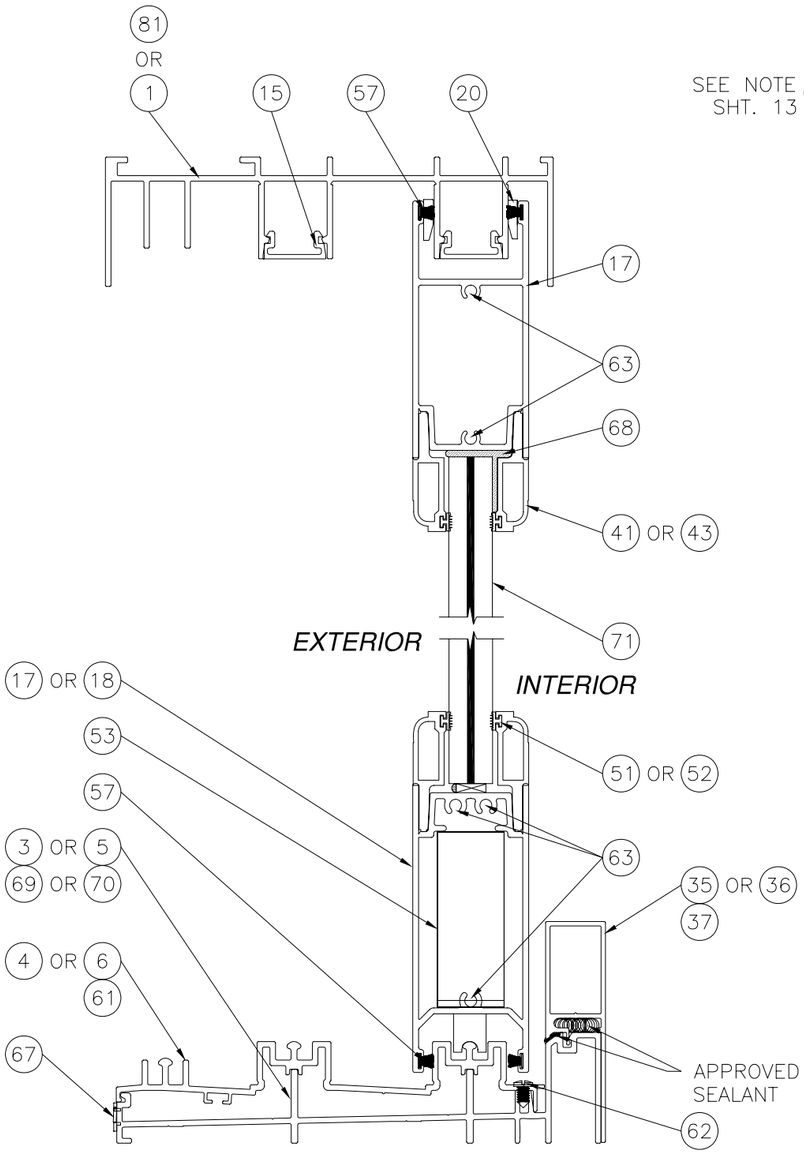
PROFESSIONAL ENGINEER

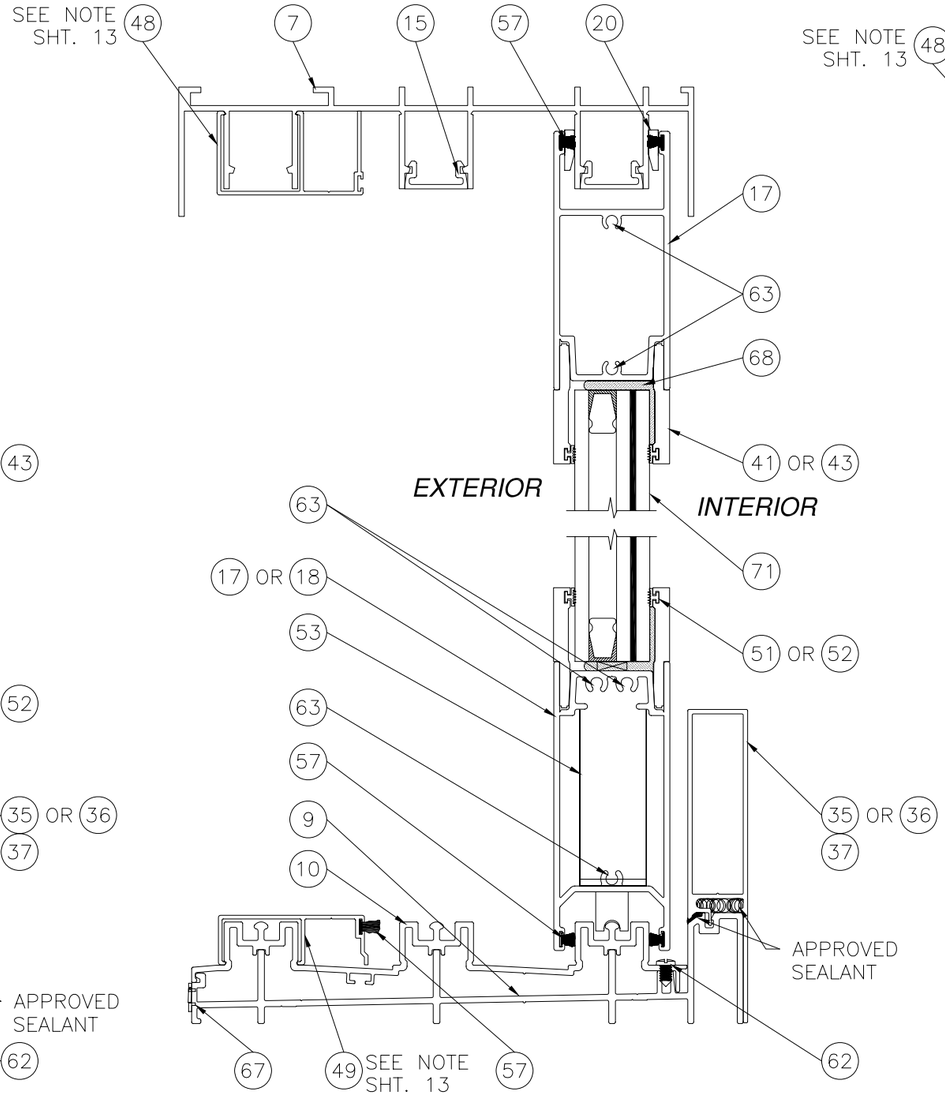
Luis R. Lomas P.E.
Texas No. 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



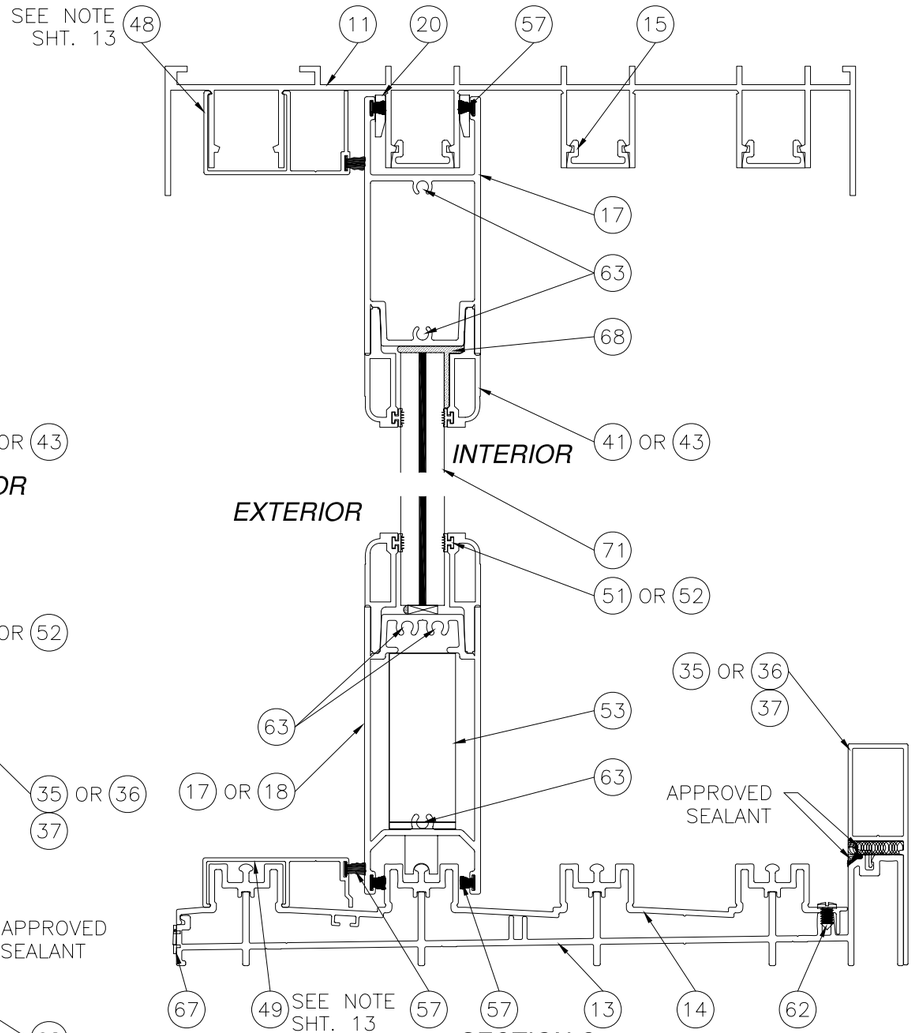
SECTION A

2 TRACK FRAME SYSTEM WITH 3" SILL RISER SHOWN, ALL SILL RISERS MAYBE USED



SECTION B

3 TRACK FRAME SYSTEM WITH 4 1/4" SILL RISER SHOWN, ALL SILL RISERS MAYBE USED



SECTION C

4 TRACK FRAME SYSTEM WITH 3" SILL RISER SHOWN, ALL SILL RISERS MAYBE USED

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NOTE:
SEE SHEETS 16, 17, 18 AND 19 FOR TYPICAL ANCHORAGE TO VARIOUS SUBSRTATE MATERIALS. A SPECIFIC SUBSTRATE IS INDICATED ON EACH HEAD AND TRACK SYSTEM. OTHER HEAD AND TRACK SYSTEMS ARE SIMILAR.

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8100 SERIES LMI
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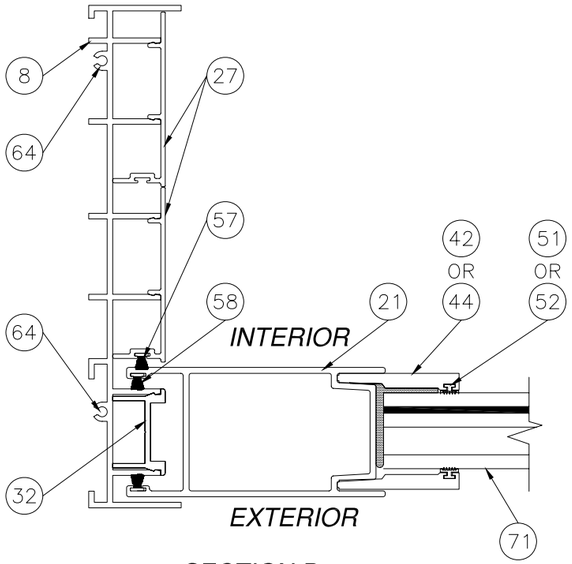
VERTICAL CROSS SECTIONS

DRAWN:	DWG NO.	REV
TJH	08-00876	C
SCALE NTS	DATE 12/07/09	SHEET 12 OF 22

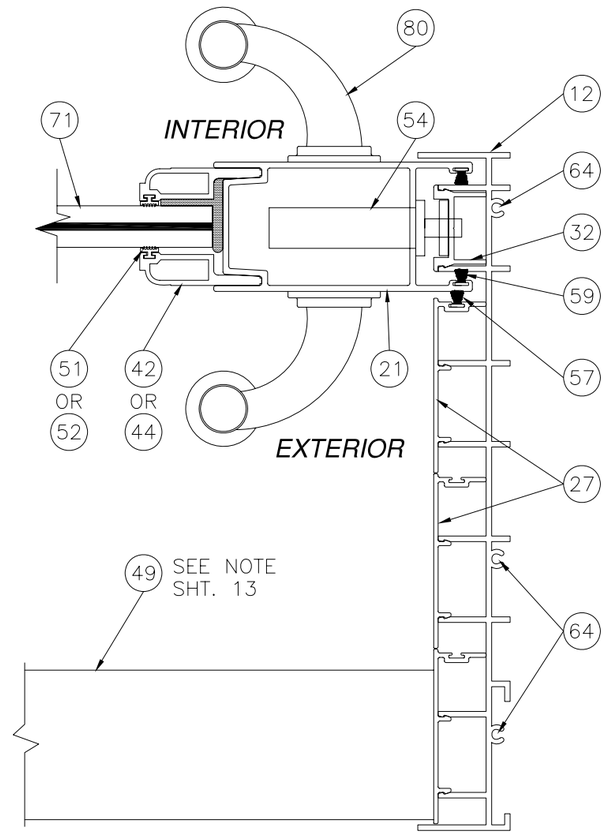
STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889

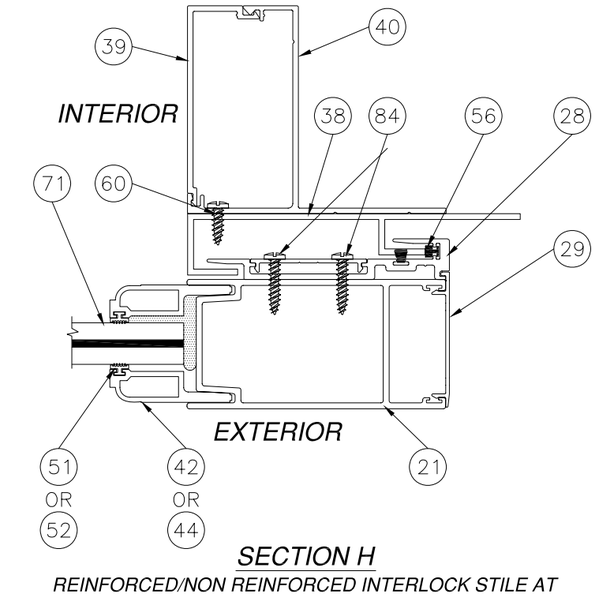
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



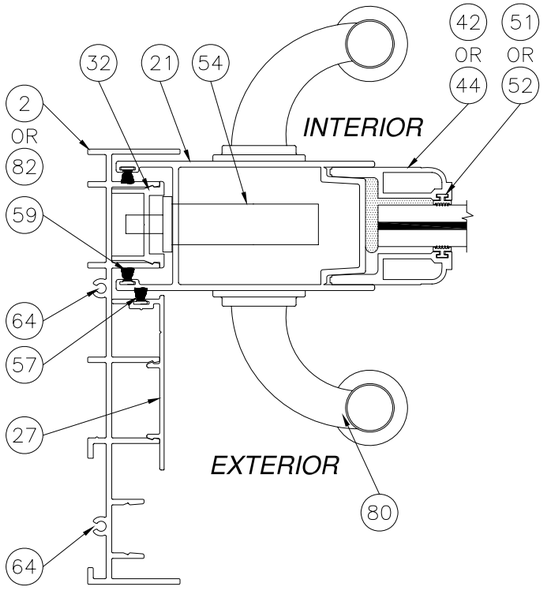
SECTION D
PLAIN STILE AT 3 TRACK JAMB



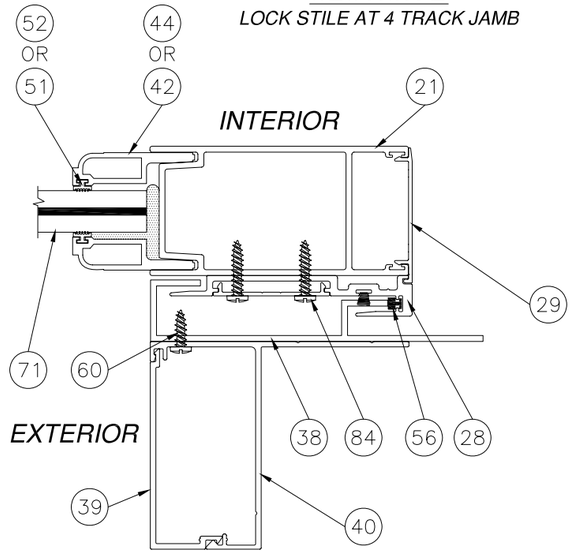
SECTION E
LOCK STILE AT 4 TRACK JAMB



SECTION H
REINFORCED/NON REINFORCED INTERLOCK STILE AT EXTERIOR HOOK STRIP



SECTION F
LOCK STILE AT 2 TRACK JAMB



SECTION G
REINFORCED/NON REINFORCED INTERLOCK STILE AT INTERIOR HOOK STRIP

FIXED PANEL NOTE:
ITEM #49, SILL COVER, AND ITEM #48, FRAME HEAD COVER, ARE USED TO SECURE SINGLE OR MULTIPLE FIXED PANELS IN PLACE. DEPENDING ON CONFIGURATION INSTALLED ITEMS #48 AND #49 MAY BE REPLACED WITH ITEM #83 TO SECURE FIXED PANEL IN PLACE. LOCATE ITEM #83 IN INTERIOR AND EXTERIOR OF FIXED PANEL 4" FROM TOP AND BOTTOM AND ONE AT MIDSPAN. SEE SECTIONS "O" AND "U" IN SHEETS 14 AND 15 RESPECTIVELY.

NOTE:
SEE SHEETS 16, 17, 18 AND 19 FOR TYPICAL ANCHORAGE TO VARIOUS SUBSRTATE MATERIALS. A SPECIFIC SUBSTRATE IS INDICATED ON EACH HEAD AND TRACK SYSTEM. OTHER HEAD AND TRACK SYSTEMS ARE SIMILAR.

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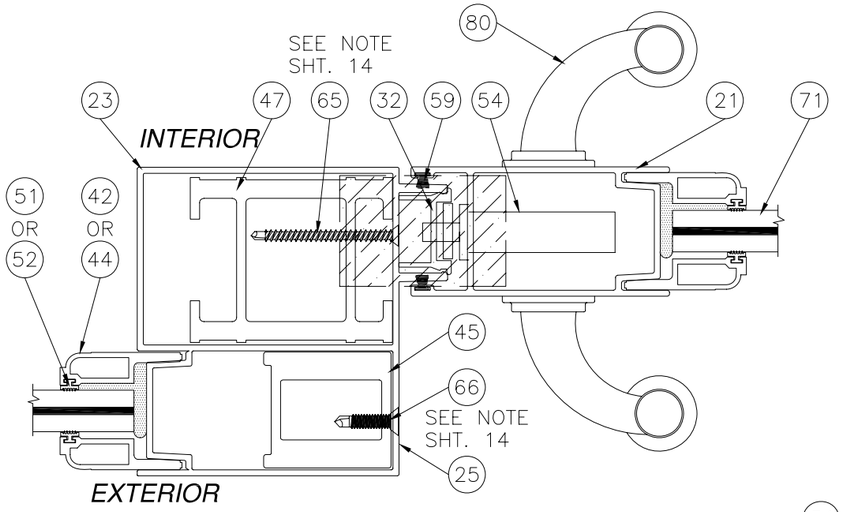
8100 SERIES LMI
REINFORCED & NON-REINFORCED
HORIZONTAL CROSS SECTIONS

DRAWN:	DWG NO.	REV
TJH	08-00876	C
SCALE NTS	DATE 12/07/09	SHEET 13 OF 22

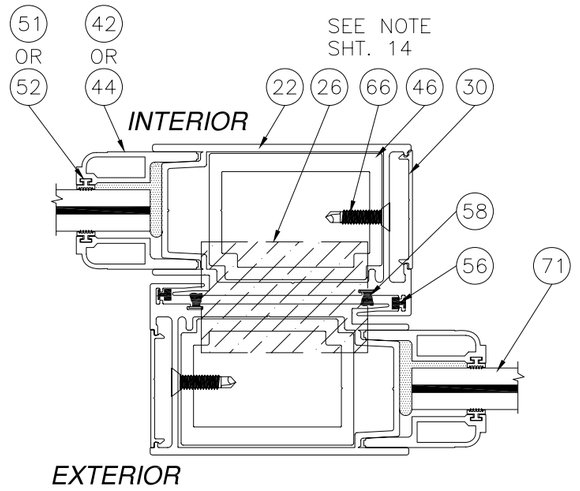
Luis R. Lomas P.E.
Texas No. 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



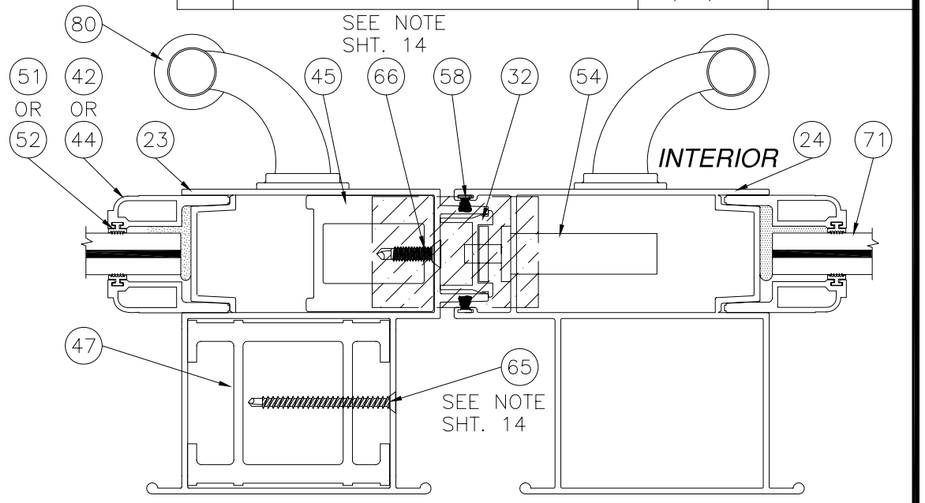
SECTION J

REINFORCED INTERIOR FIXED BUTT STILE TO LOCK STILE



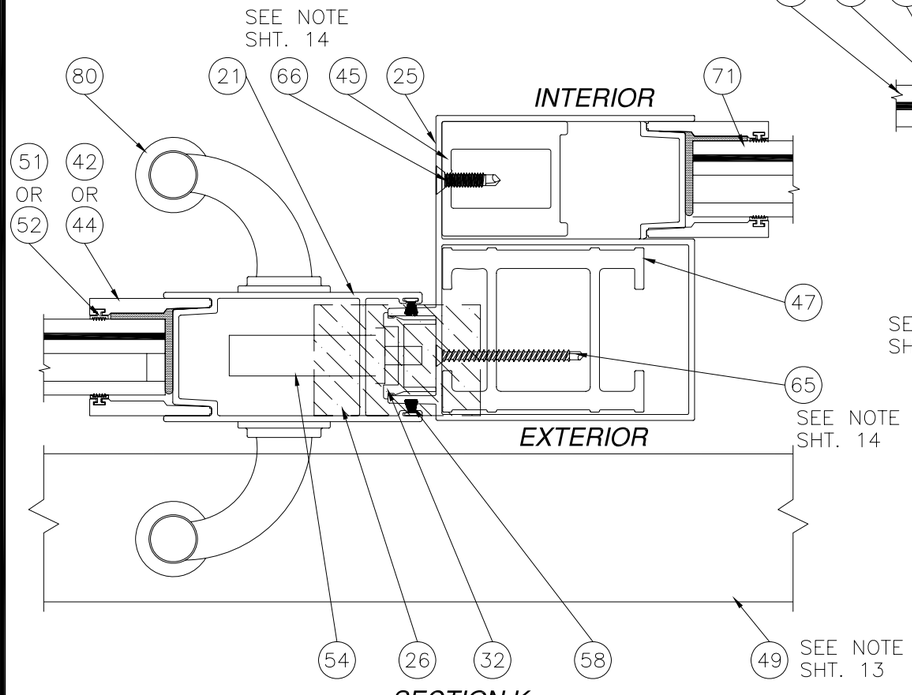
SECTION L

REINFORCED INTERLOCK STILE TO REINFORCED INTERLOCK STILE



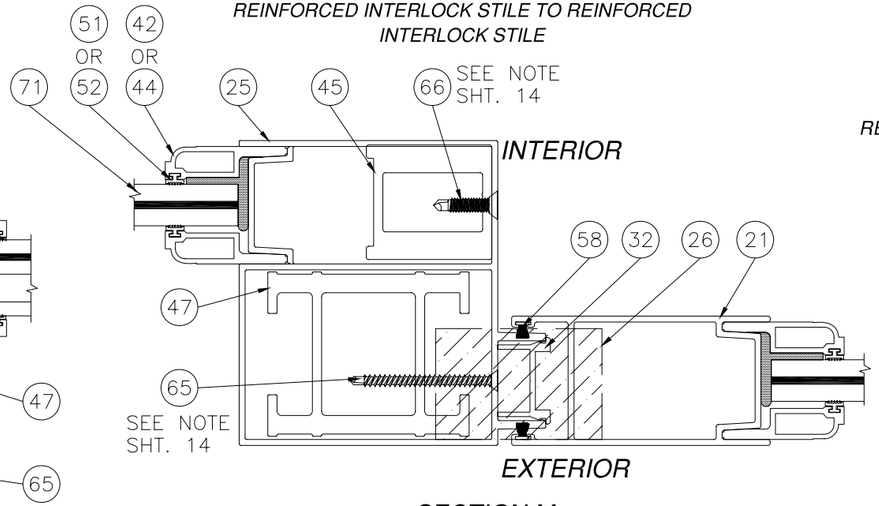
SECTION N

REINFORCED MALE BUTT STILE TO REINFORCED LOCKING BUTT STILE



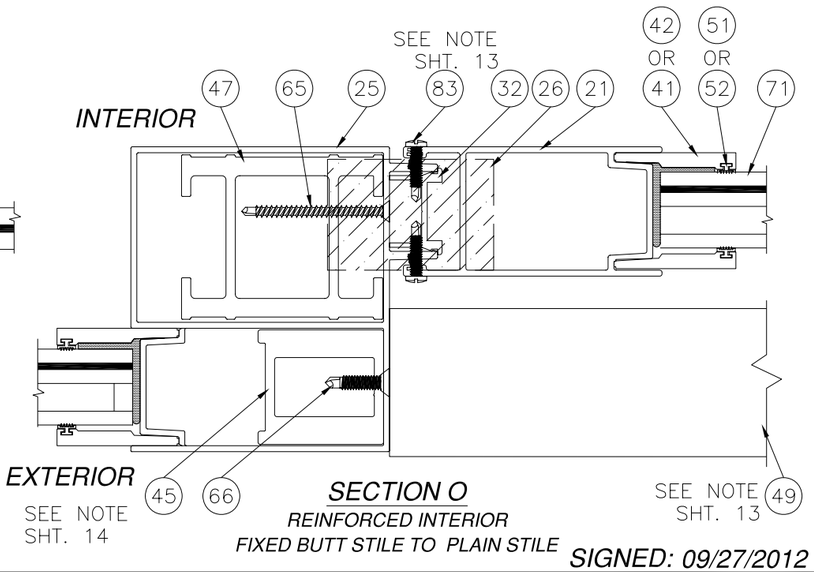
SECTION K

LOCK STILE TO REINFORCED EXTERIOR FIXED BUTT STILE



SECTION M

REINFORCED EXTERIOR FIXED BUTT STILE TO PLAIN STILE



SECTION O

REINFORCED INTERIOR FIXED BUTT STILE TO PLAIN STILE

REINFORCING BAR NOTE:
ITEM #46, INTERLOCK REINFORCING BAR IS SECURED TO INTERLOCK WITH ITEM #66. ITEM #47, FEMALE BUTT STILE REINFORCING BAR IS SECURED TO FEMALE BUTT STILE AND FEMALE BUTT STILE OFFSET WITH ITEM #65. ITEM #45, 6000 BUTT STILE REINFORCING BAR IS SECURED TO FEMALE BUTT STILE AND FEMALE BUTT STILE OFFSET WITH ITEM #66. ALL SCREWS ARE SPACED 6" FROM TOP AND BOTTOM OF STILES AND ONE AT MIDSPAN.

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SCALE NTS	DATE 12/07/09	SHEET 14 OF 22

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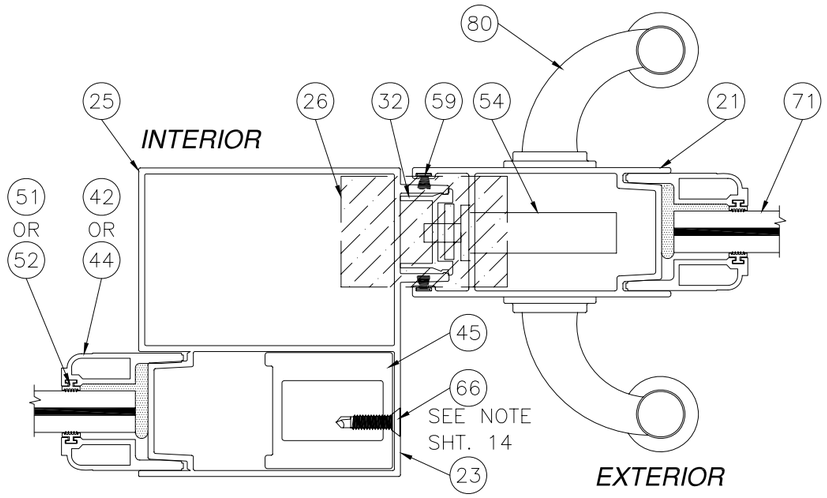
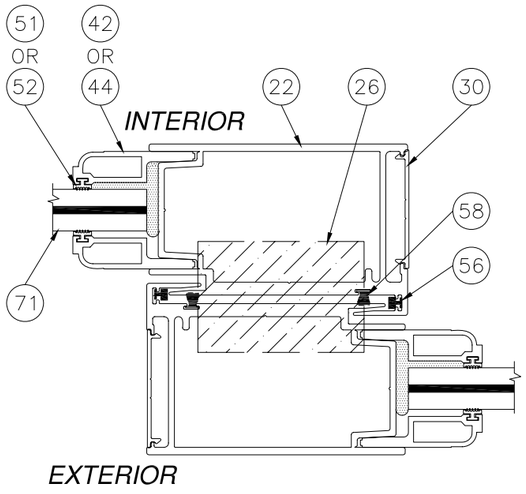
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



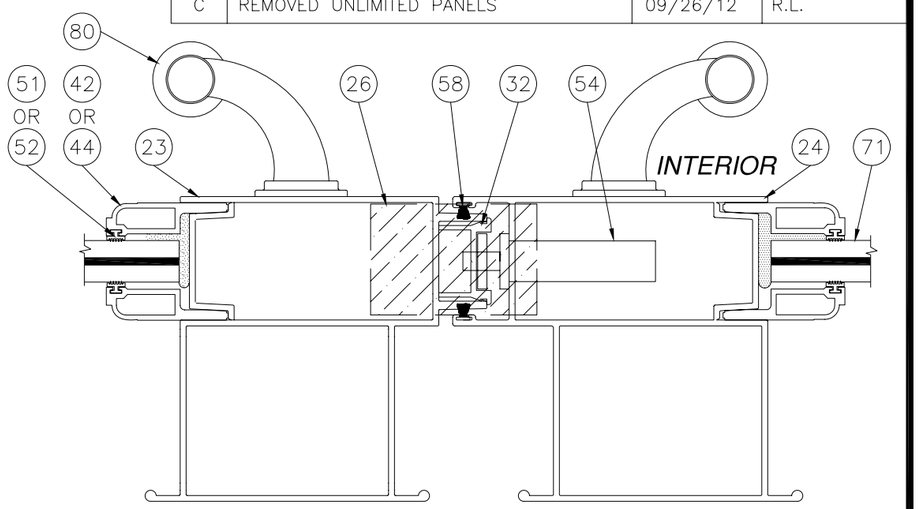
SECTION P

NON-REINFORCED INTERIOR FIXED BUTT STILE TO LOCK STILE



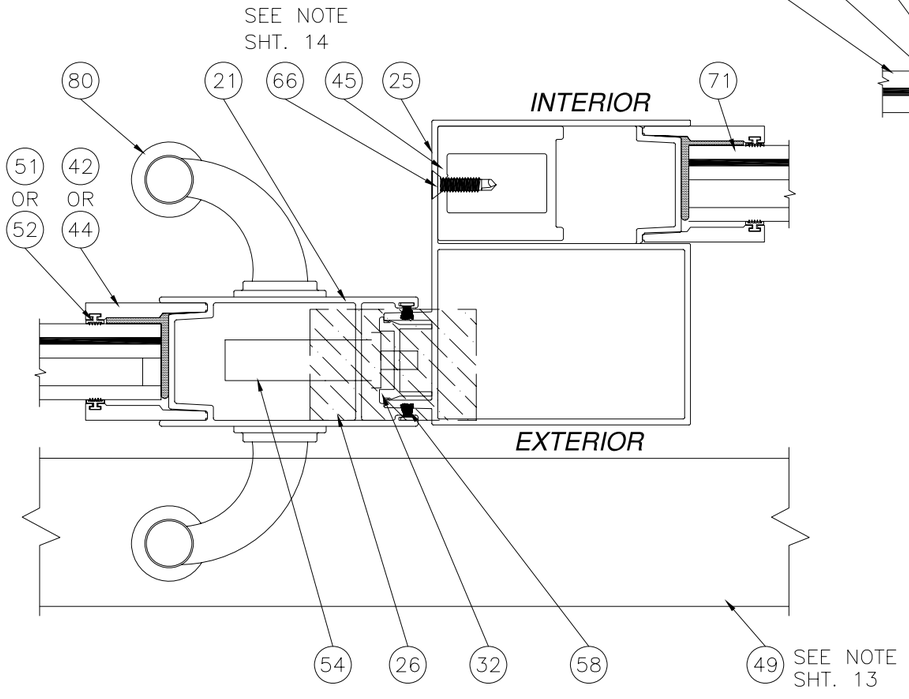
SECTION R

NON-REINFORCED INTERLOCK STILE TO NON-REINFORCED INTERLOCK STILE



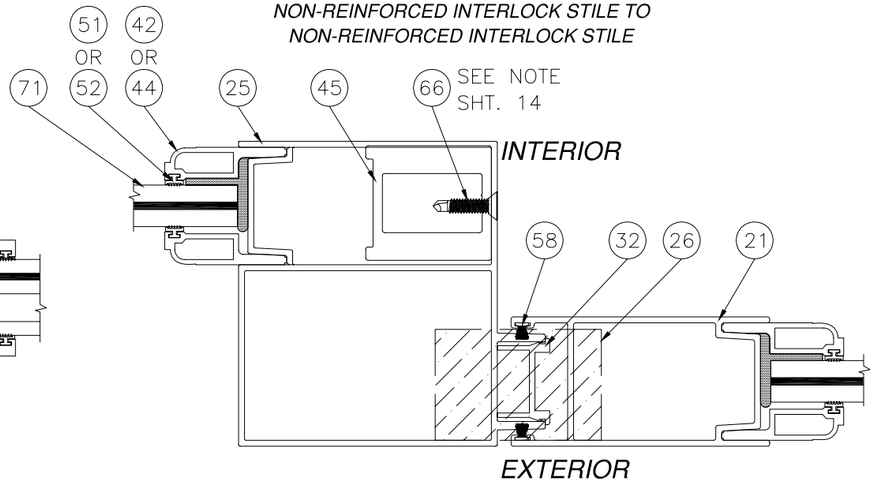
SECTION T

NON-REINFORCED MALE BUTT STILE TO NON-REINFORCED LOCKING BUTT STILE



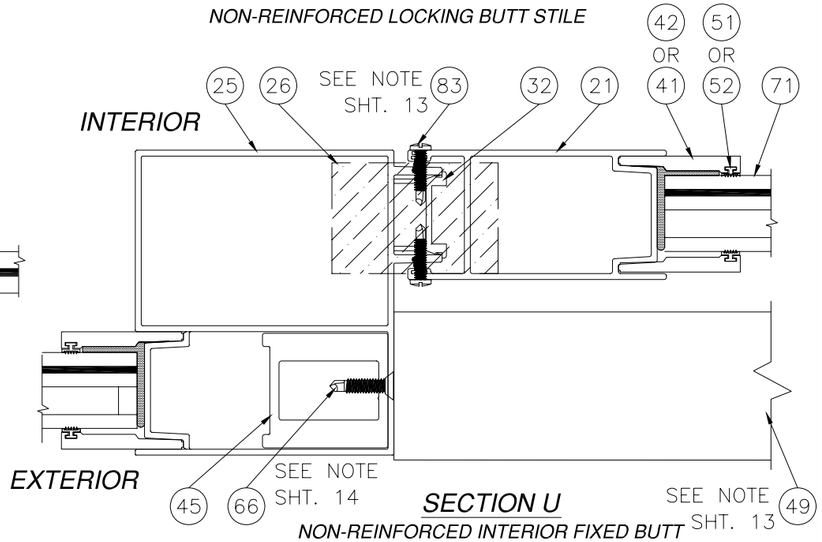
SECTION Q

LOCK STILE TO NON-REINFORCED EXTERIOR FIXED BUTT STILE



SECTION S

NON-REINFORCED EXTERIOR FIXED BUTT STILE TO PLAIN STILE



SECTION U

NON-REINFORCED INTERIOR FIXED BUTT STILE TO PLAIN STILE

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DRAWN:	DWG NO.	REV
TJH	08-00876	C
SCALE NTS	DATE 12/07/09	SHEET 15 OF 22

STATE OF TEXAS
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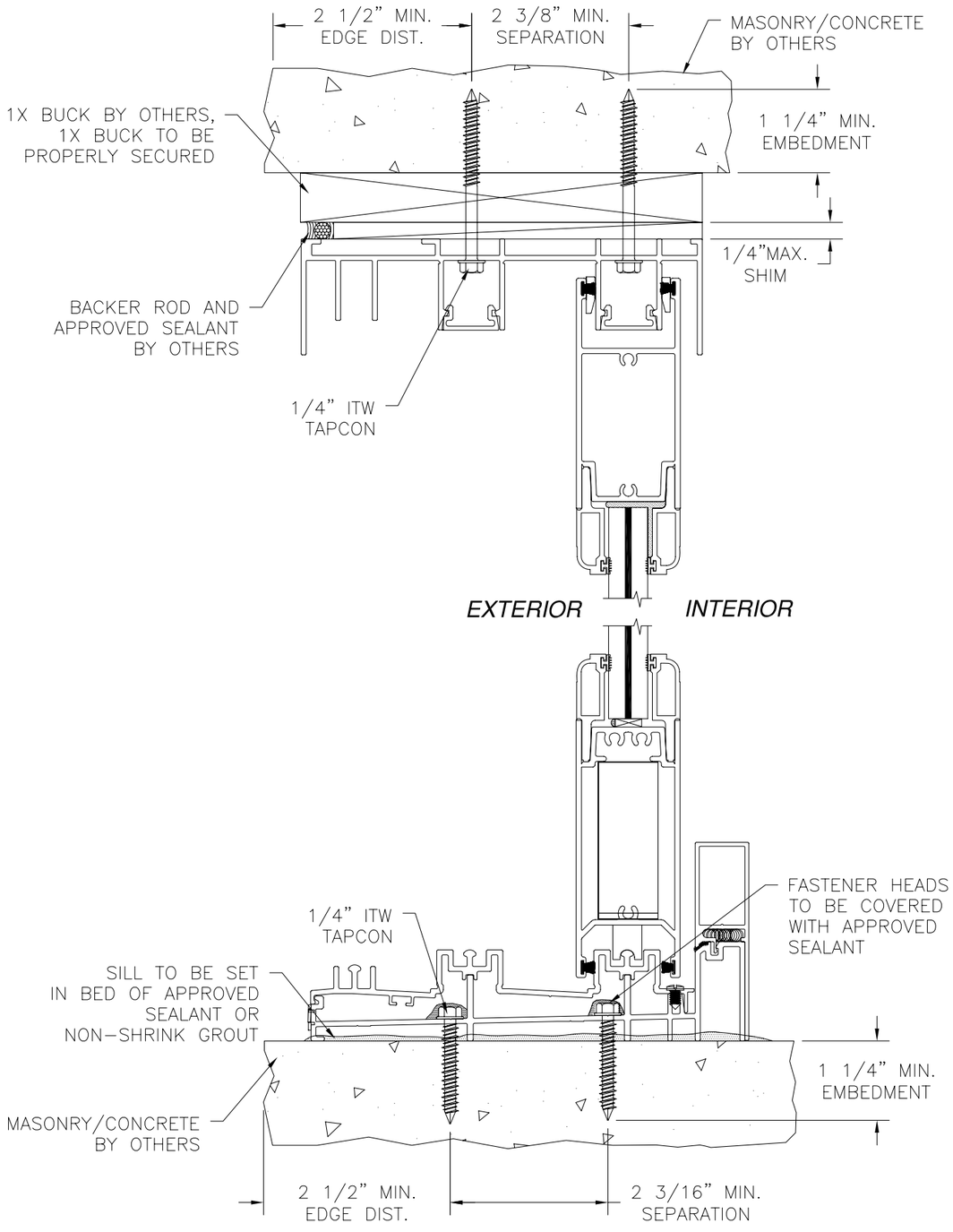
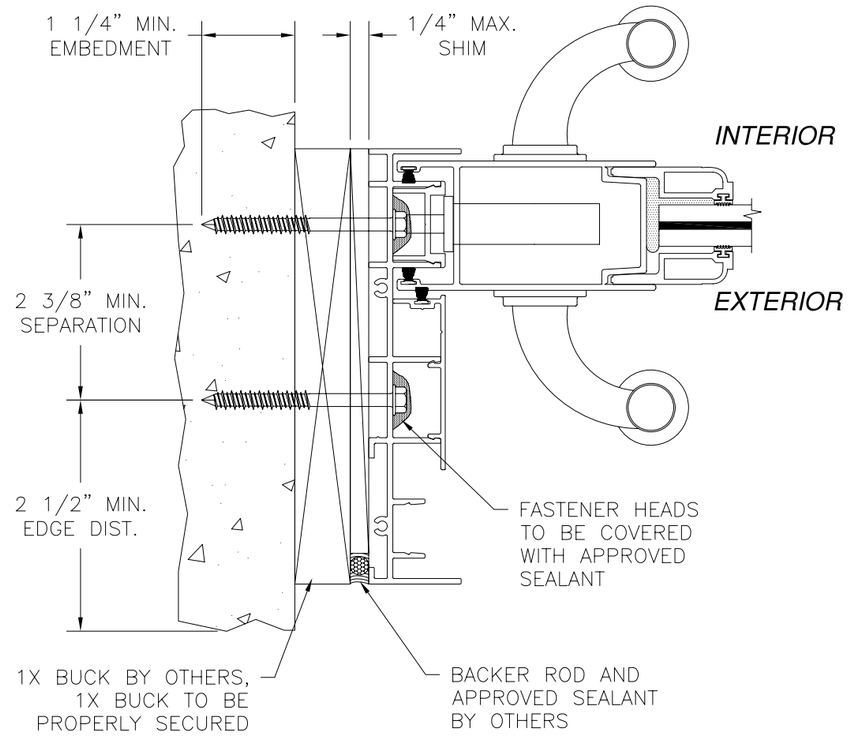
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



2 TRACK FRAME VERTICAL INSTALLATION

MASONRY/CONCRETE INSTALLATION



2 TRACK FRAME JAMB INSTALLATION

1X BUCK TO MASONRY/CONCRETE INSTALLATION, 2 TRACK SHOWN 3 TRACK & 4 TRACK ARE SIMILAR

NOTE:
CONCRETE SUBSTRATE INSTALLATION FOR 2 TRACK SHOWN.
ANCHORAGE SIMILAR FOR 3 TRACK AND 4 TRACK SYSTEMS.
SEE SHEET 9 FOR ANCHOR SEPARATION.

2 TRACK WITH 3" SILL RISER SHOWN 3 TRACK & 4 TRACK ARE SIMILAR. ALL SILL RISERS MAYBE USED

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DRAWN:	DWG NO.	REV
TJH	08-00876	C
SCALE NTS	DATE 12/07/09	SHEET 16 OF 22

STATE OF TEXAS
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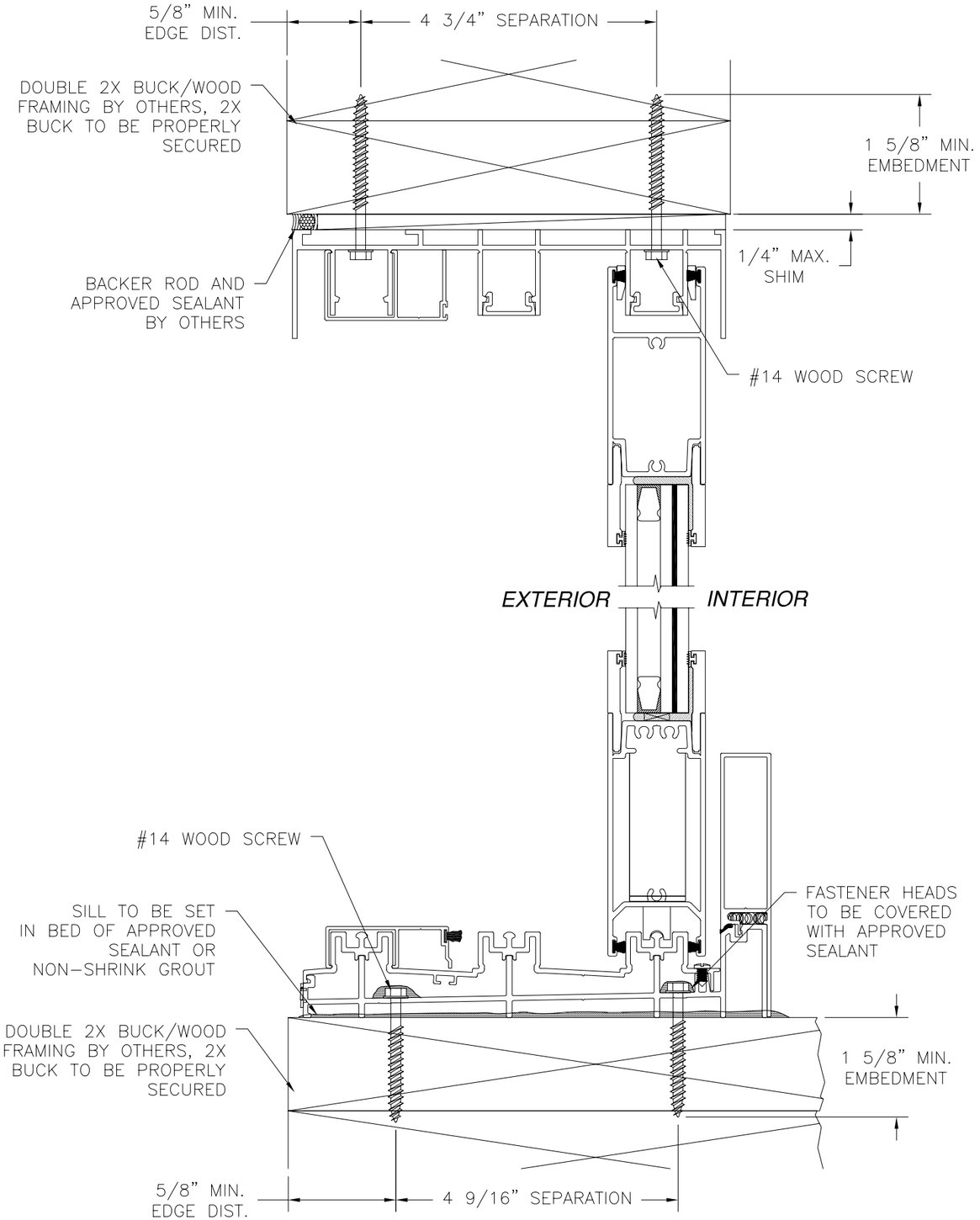
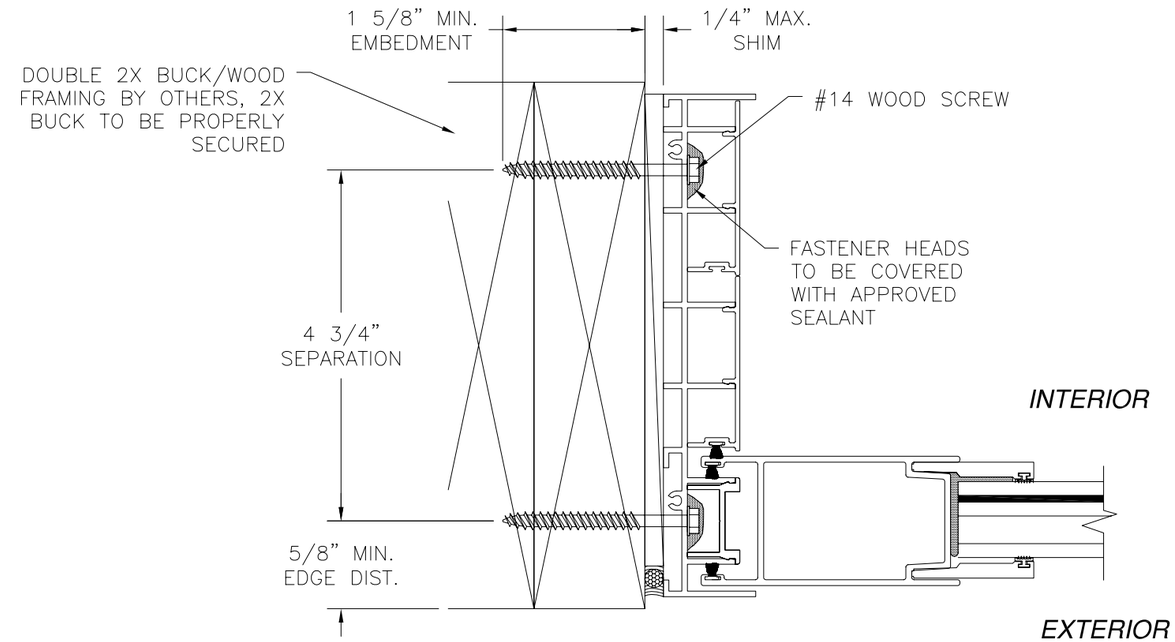
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



3 TRACK FRAME VERTICAL INSTALLATION

2X BUCK/WOOD FRAME INSTALLATION



3 TRACK FRAME JAMB INSTALLATION

2X BUCK/WOOD FRAME INSTALLATION, 3 TRACK SHOWN 2 TRACK & 4 TRACK ARE SIMILAR

NOTE:
2X BUCK/WOOD FRAME SUBSTRATE INSTALLATION FOR 3 TRACK SHOWN. ANCHORAGE SIMILAR FOR 2 TRACK AND 4 TRACK SYSTEMS. SEE SHEET 9 FOR ANCHOR SEPARATION.

3 TRACK WITH 4 1/4" SILL RISER SHOWN 2 TRACK & 4 TRACK ARE SIMILAR. ALL SILL RISERS MAYBE USED

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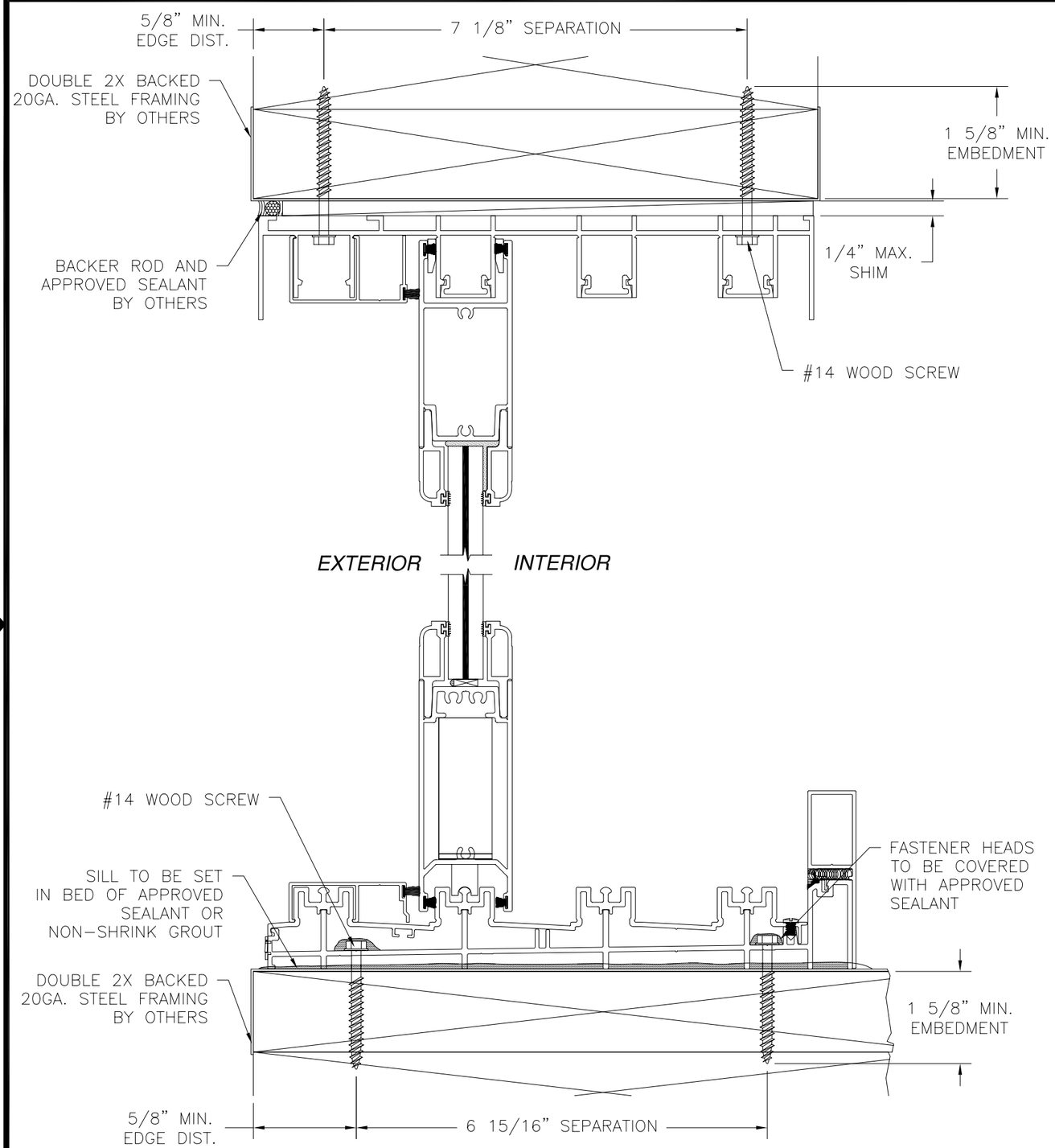
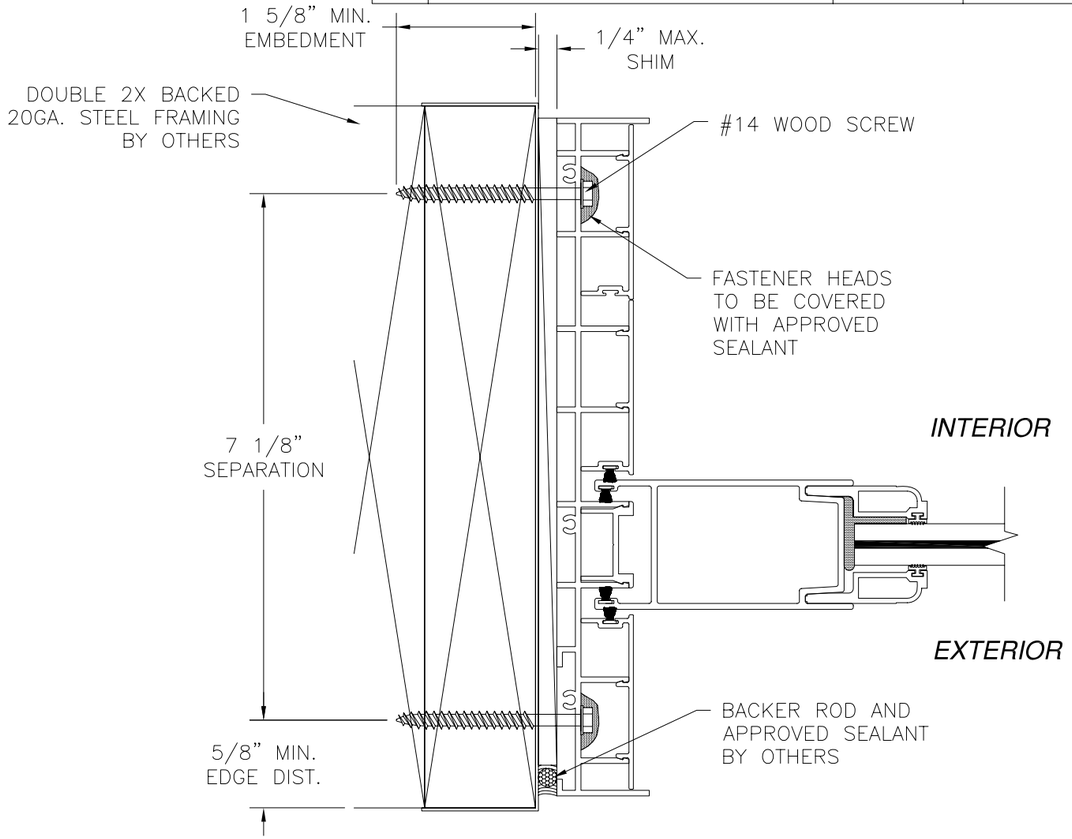


4 TRACK FRAME VERTICAL INSTALLATION

WOOD BACKED 20 GA. STEEL STUD INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



4 TRACK FRAME JAMB INSTALLATION

WOOD BACKED 20 GA. STEEL STUD INSTALLATION, 4 TRACK SHOWN 2 TRACK & 3 TRACK ARE SIMILAR

NOTE:
WOOD BACKED 20 GA. STEEL STUD SUBSTRATE INSTALLATION FOR 4 TRACK SHOWN. ANCHORAGE SIMILAR FOR 2 TRACK AND 3 TRACK SYSTEMS. SEE SHEET 9 FOR ANCHOR SEPARATION.

4 TRACK WITH 3" SILL RISER SHOWN 2 TRACK & 3 TRACK ARE SIMILAR. ALL SILL RISERS MAYBE USED

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DRAWN:	DWG NO.	REV
TJH	08-00876	C
SCALE NTS	DATE 12/07/09	SHEET 18 OF 22

Luis R. Lomas P.E.
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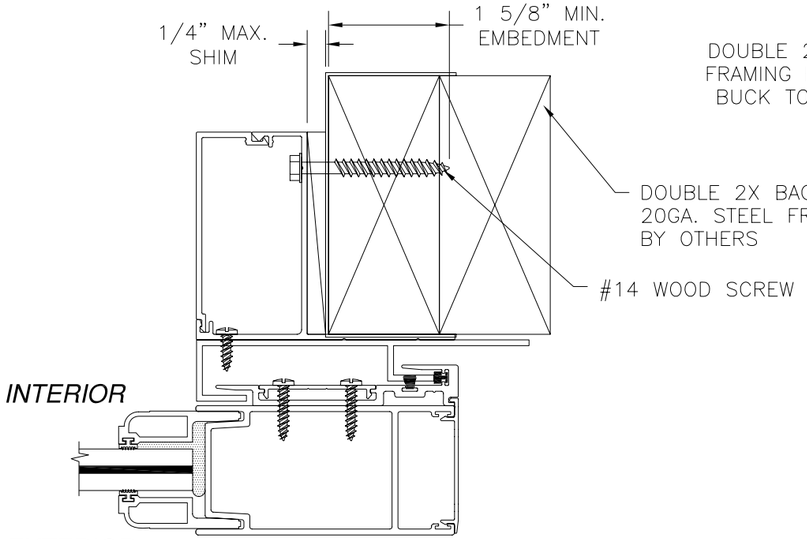
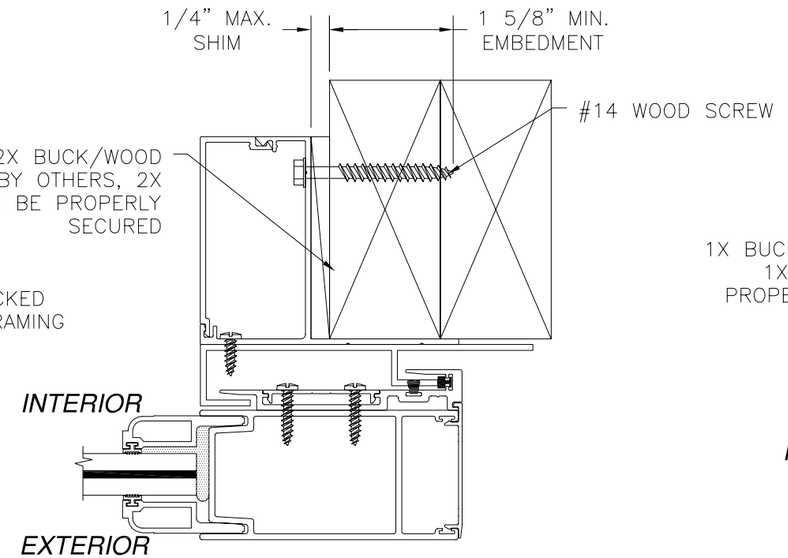
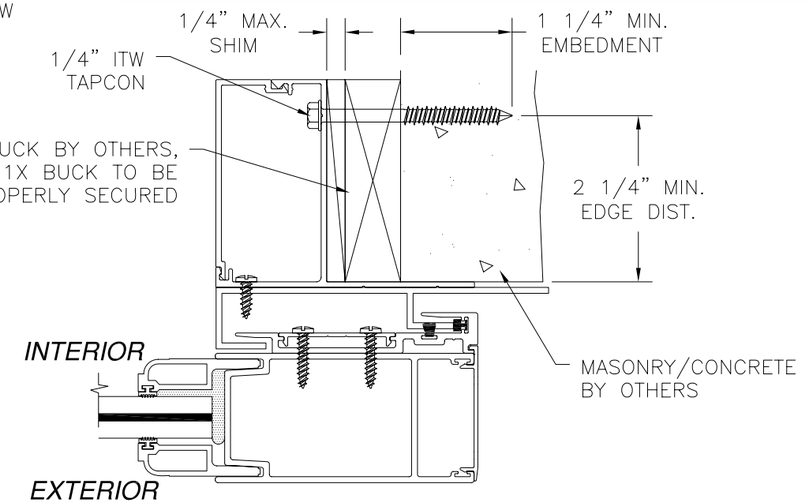
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



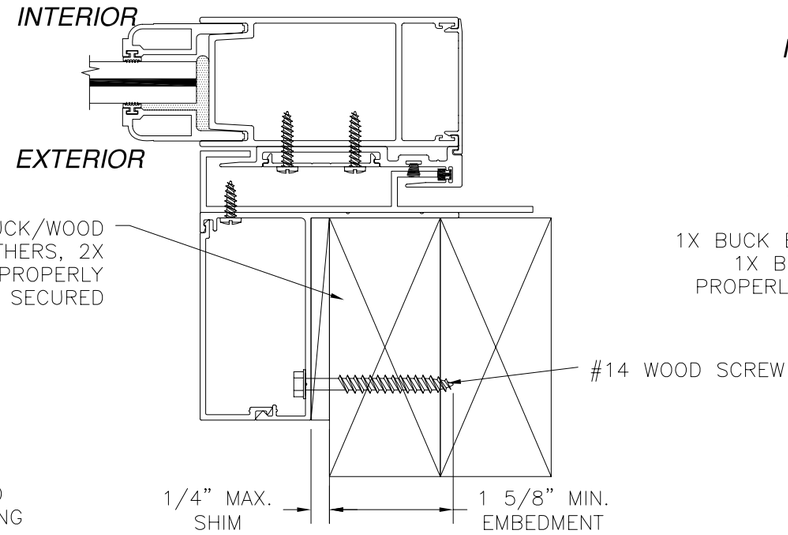
INTERIOR POCKET HOOK STRIP
WOOD BACKED 20 GA. STEEL STUD INSTALLATION



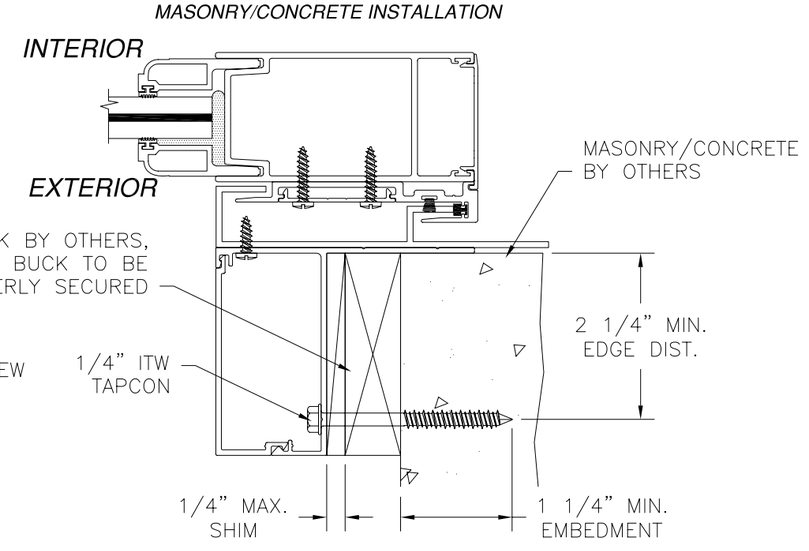
INTERIOR POCKET HOOK STRIP
2X BUCK/WOOD FRAME INSTALLATION



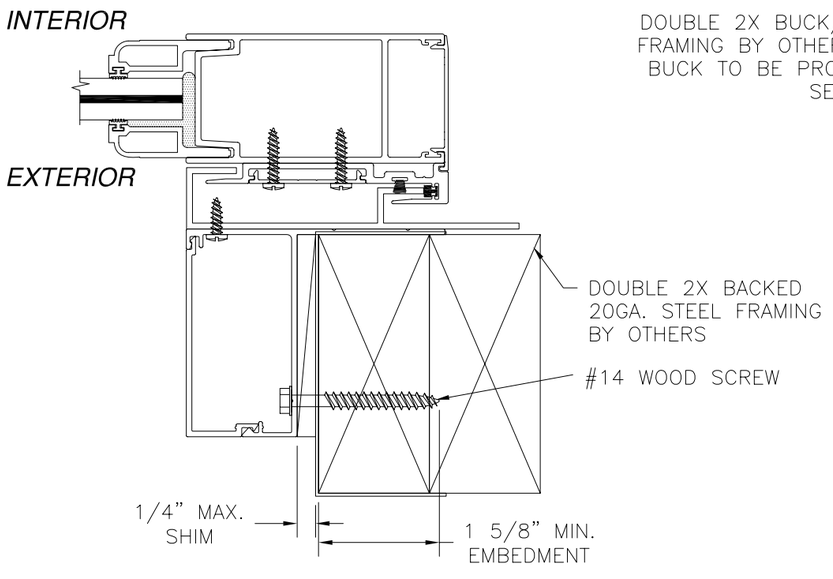
INTERIOR POCKET HOOK STRIP
MASONRY/CONCRETE INSTALLATION



EXTERIOR POCKET HOOK STRIP
2X BUCK/WOOD FRAME INSTALLATION



EXTERIOR POCKET HOOK STRIP
MASONRY/CONCRETE INSTALLATION



EXTERIOR POCKET HOOK STRIP
WOOD BACKED 20 GA. STEEL STUD INSTALLATION

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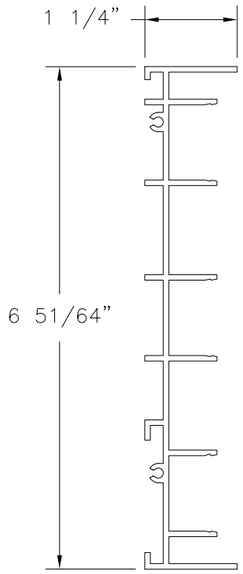
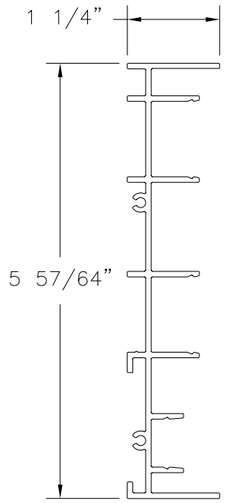
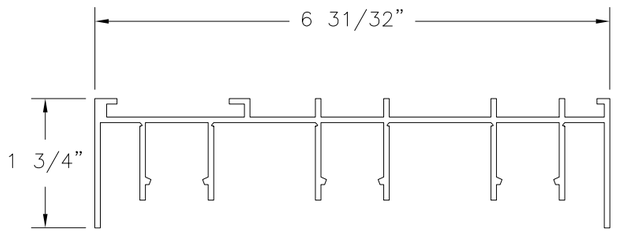
REV	DESCRIPTION	DATE	APPROVED
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



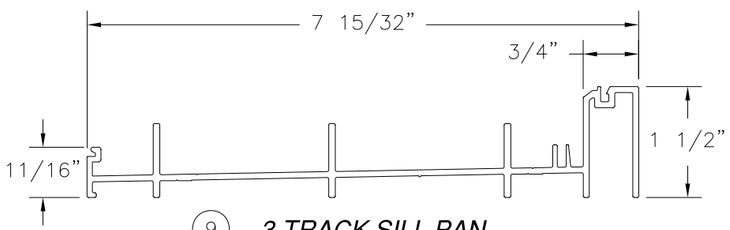


(2) **2 TRACK WS FRAME JAMB**
ALUMINUM 6063-T6 .075" THICK

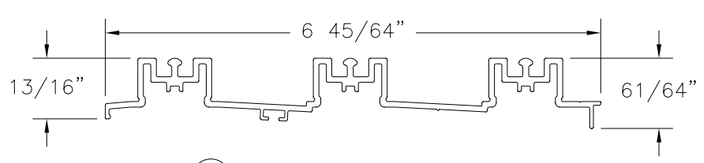
(8) **3 TRACK FRAME JAMB**
ALUMINUM 6063-T6 .075" THICK



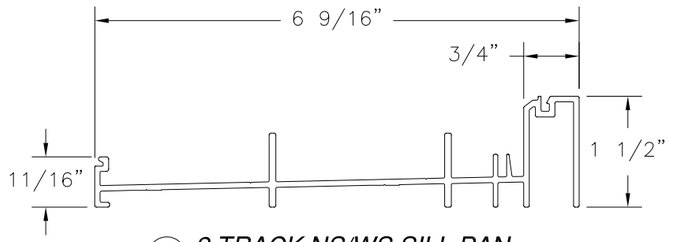
(7) **3 TRACK FRAME HEAD**
ALUMINUM 6063-T6 .075" THICK



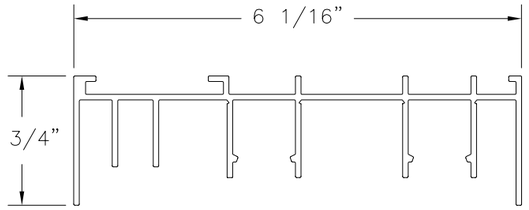
(9) **3 TRACK SILL PAN**
ALUMINUM 6063-T6 .075" THICK



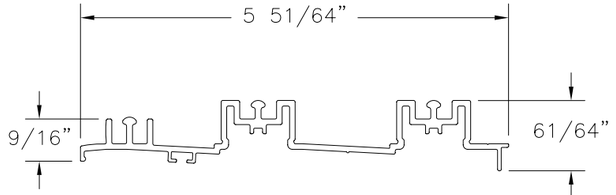
(10) **3 TRACK SILL INSERT**
ALUMINUM 6063-T6 .075" THICK



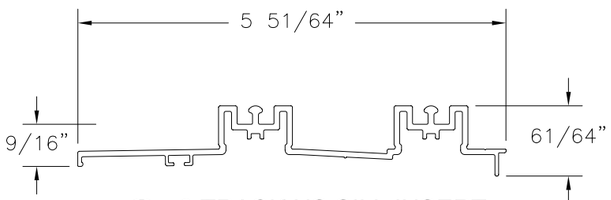
(3) **2 TRACK NS/WS SILL PAN**
ALUMINUM 6063-T6 .075" THICK



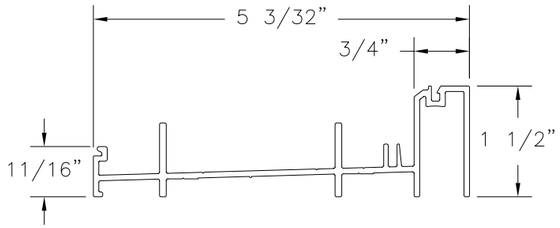
(1) **2 TRACK WS FRAME HEAD**
ALUMINUM 6063-T6 .075" THICK



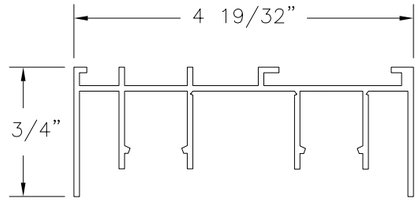
(4) **2 TRACK WS SILL INSERT**
ALUMINUM 6063-T6 .075" THICK



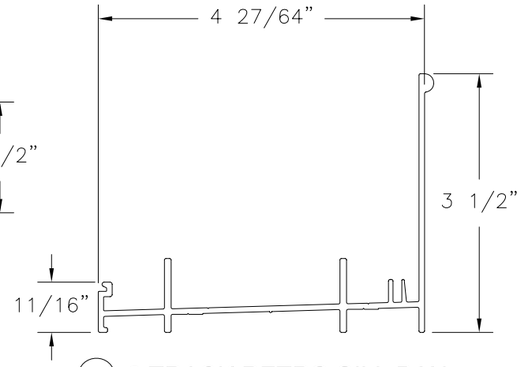
(61) **2 TRACK NS SILL INSERT**
ALUMINUM 6063-T6 .075" THICK



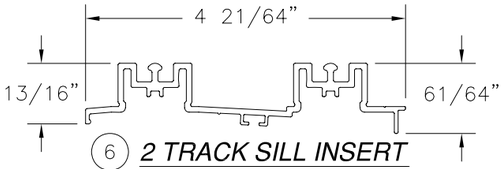
(5) **2 TRACK SILL PAN**
ALUMINUM 6063-T6 .075" THICK



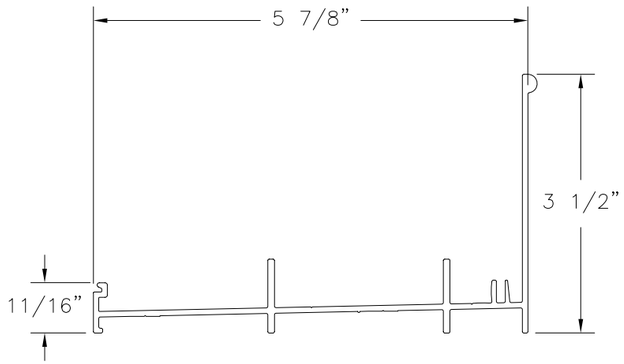
(81) **2 TRACK FRAME HEAD**
ALUMINUM 6063-T6 .075" THICK



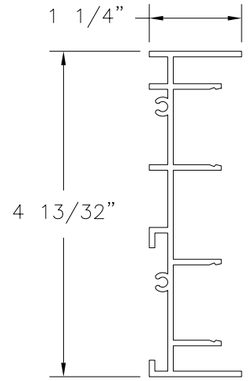
(69) **2 TRACK RETRO SILL PAN**
ALUMINUM 6063-T6 .075" THICK



(6) **2 TRACK SILL INSERT**
ALUMINUM 6063-T6 .075" THICK



(70) **2 TRACK WS RETRO SILL PAN**
ALUMINUM 6063-T6 .075" THICK



(82) **2 TRACK FRAME JAMB**
ALUMINUM 6063-T6 .075" THICK

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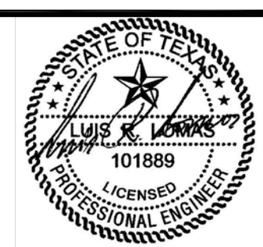
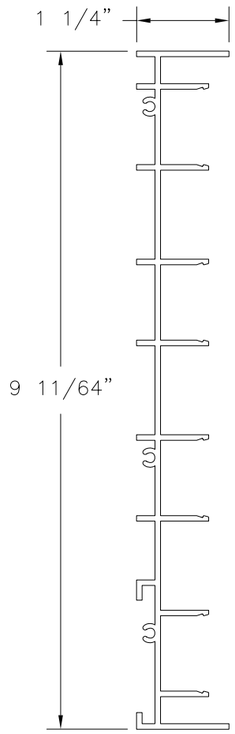
DRAWN:	DWG NO.	REV
TJH	08-00876	C
SCALE NTS	DATE 12/07/09	SHEET 20 OF 22

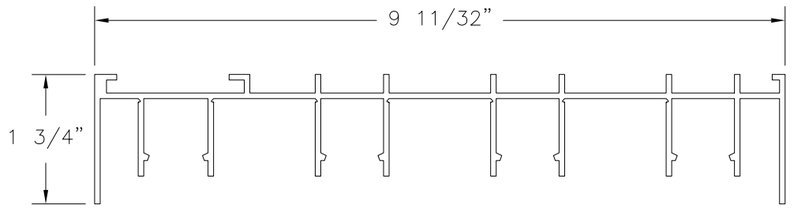


Luis R. Lomas P.E.
Texas No. 101889

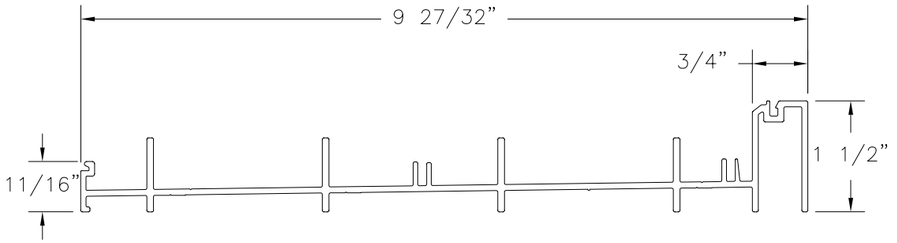
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
C	REMOVED UNLIMITED PANELS	09/26/12	R.L.



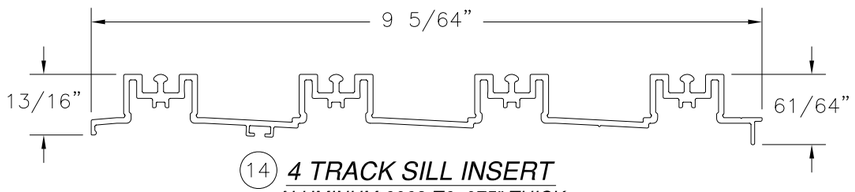
(12) 4 TRACK FRAME JAMB
ALUMINUM 6063-T6 .075" THICK



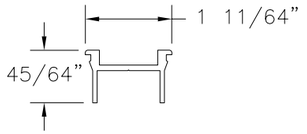
(11) 4 TRACK FRAME HEAD
ALUMINUM 6063-T6 .075" THICK



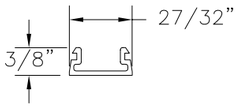
(13) 4 TRACK SILL PAN
ALUMINUM 6063-T6 .075" THICK



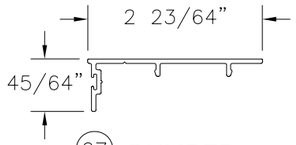
(14) 4 TRACK SILL INSERT
ALUMINUM 6063-T6 .075" THICK



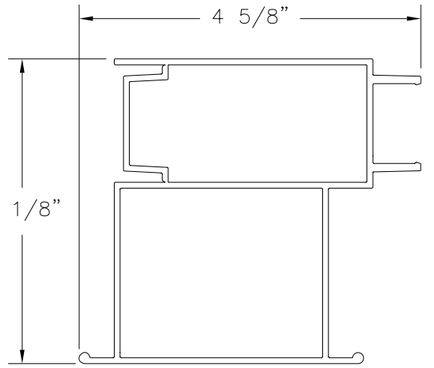
(32) PANEL STILE JAMB INSERT
ALUMINUM 6063-T6 .075" THICK



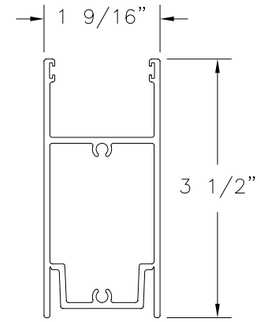
(15) FRAME HEAD INSERT
ALUMINUM 6063-T6 .060" THICK



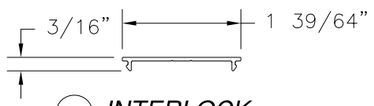
(27) BUMPER JAMB INSERT
ALUMINUM 6063-T6 .060" THICK



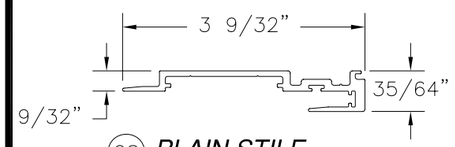
(23) FEMALE BUTT STILE EXT. OFFSET
ALUMINUM 6063-T6 .080" THICK



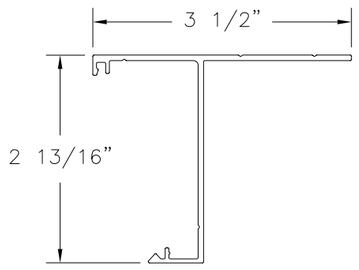
(17) TOP RAIL
ALUMINUM 6063-T6 .080" THICK



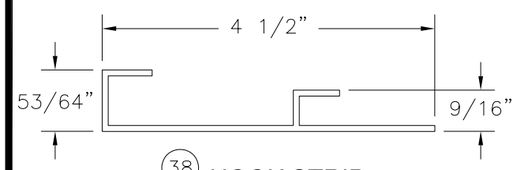
(30) INTERLOCK SNAP COVER
ALUMINUM 6063-T6 .051" THICK



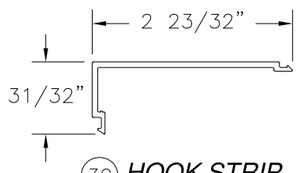
(28) PLAIN STILE INTERLOCK
ALUMINUM 6063-T6 .075" THICK



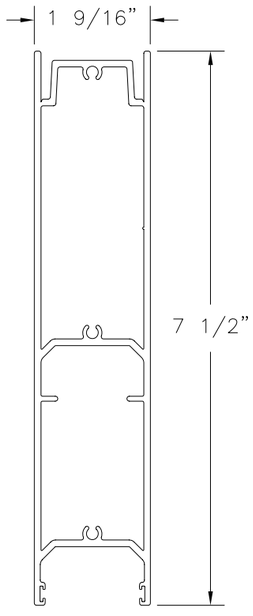
(40) HOOK STRIP WALL MOUNT
ALUMINUM 6063-T6 .075" THICK



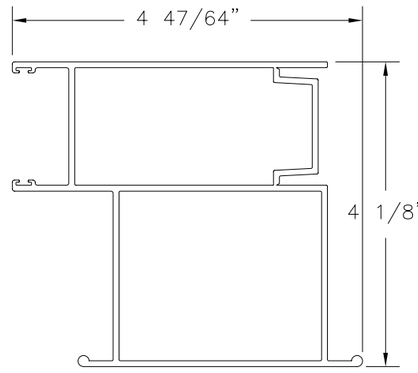
(38) HOOK STRIP
ALUMINUM 6063-T6 .080" THICK



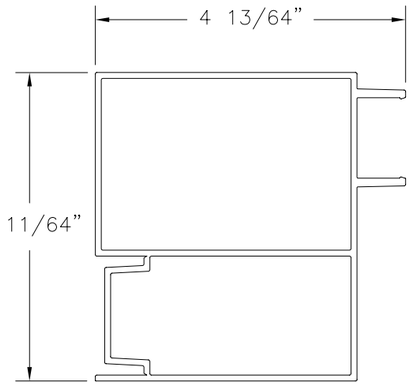
(39) HOOK STRIP WALL COVER
ALUMINUM 6063-T6 .075" THICK



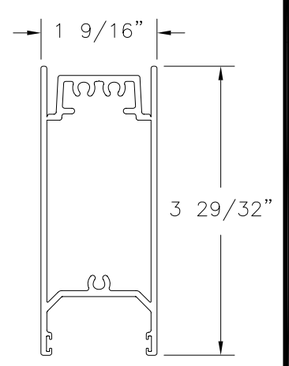
(19) TALL BOTTOM RAIL
ALUMINUM 6063-T6 .080" THICK



(24) MALE BUTT STILE EXT. OFFSET
ALUMINUM 6063-T6 .080" THICK



(25) FEMALE BUTT STILE INT. OFFSET
ALUMINUM 6063-T6 .080" THICK



(18) BOTTOM RAIL
ALUMINUM 6063-T6 .080" THICK

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COMPONENTS

DRAWN:	DWG NO.	REV
TJH	08-00876	C
SCALE NTS	DATE 12/07/09	SHEET 21 OF 22

Luis R. Lomas P.E.
Texas No. 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED DP CHARTS/REVISED SILL RISERS	06/16/10	R.L.
B	REVISED DP RATING BOX	06/16/10	R.L.
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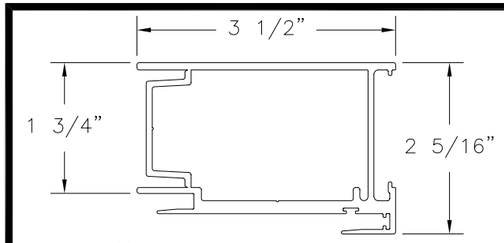
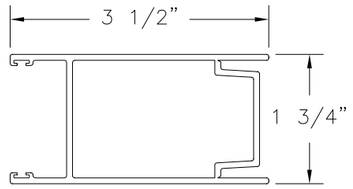
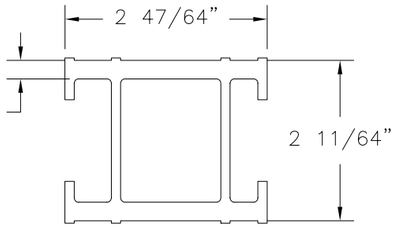


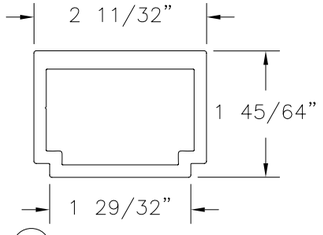
(22) **INTERLOCK STILE**
ALUMINUM 6063-T6 .080" THICK



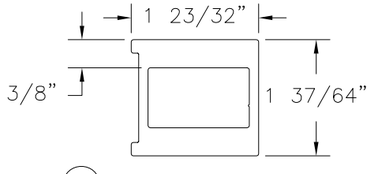
(21) **LOCK STILE**
ALUMINUM 6063-T6 .080" THICK



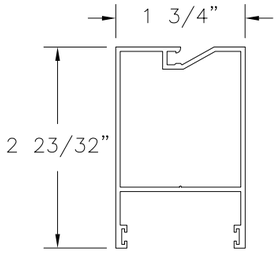
(47) **FEMALE BUTT STILE REINFORCING BAR**
ALUMINUM 6063-T6 .125" THICK



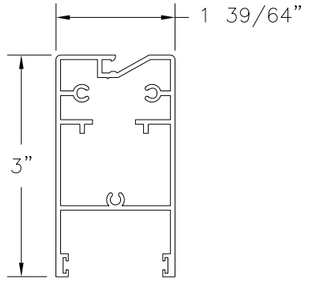
(46) **INTERLOCK REINFORCING BAR**
ALUMINUM 6063-T6 .168" THICK



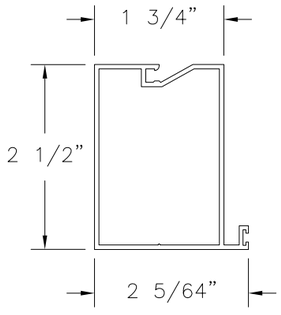
(45) **6000 BUTT STILE REINFORCING BAR**
ALUMINUM 6063-T6 .127" THICK



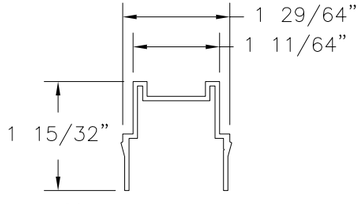
(73) **MT SCREEN STILE**
ALUMINUM 6063-T6 .060" THICK



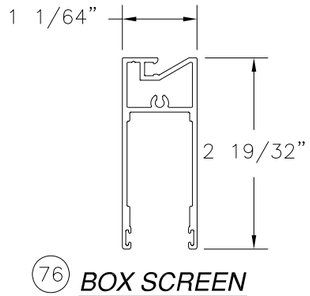
(72) **MT SCREEN TOP/BOTTOM RAIL**
ALUMINUM 6063-T6 .060" THICK



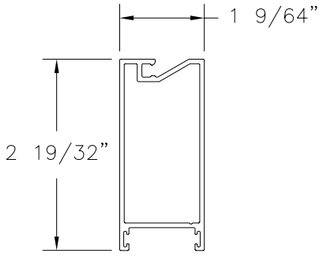
(74) **MT SCREEN STILE W/SEAL**
ALUMINUM 6063-T6 .060" THICK



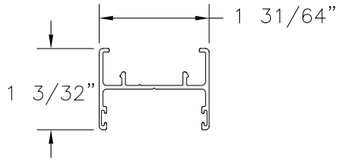
(75) **MT SCREEN ASTRAGAL**
ALUMINUM 6063-T6 .060" THICK



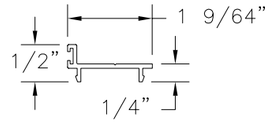
(76) **BOX SCREEN TOP/BOTTOM RAIL**
ALUMINUM 6063-T6 .062" THICK



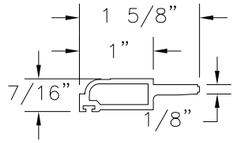
(73) **BOX SCREEN STILE**
ALUMINUM 6063-T6 .062" THICK



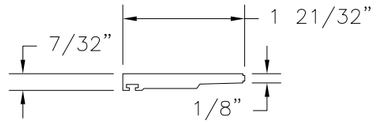
(79) **BOX SCREEN ASTRAGAL**
ALUMINUM 6063-T6 .050" THICK



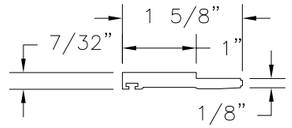
(78) **BOX SCREEN SWEEP**
ALUMINUM 6063-T6 .060" THICK



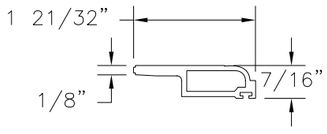
(41) **9/16" HORIZONTAL GLASS STOP**
ALUMINUM 6063-T6 .070" THICK



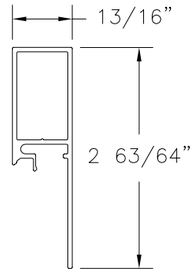
(44) **1" VERTICAL GLASS STOP**
ALUMINUM 6063-T6 .20" THICK



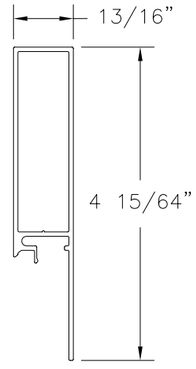
(43) **1" HORIZONTAL GLASS STOP**
ALUMINUM 6063-T6 .20" THICK



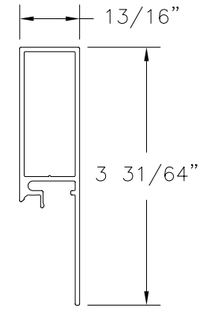
(42) **9/16" VERTICAL GLASS STOP**
ALUMINUM 6063-T6 .070" THICK



(35) **3" SILL RISER**
ALUMINUM 6063-T6 .060" THICK



(37) **4 1/4" SILL RISER**
ALUMINUM 6063-T6 .060" THICK



(36) **3 1/2" SILL RISER**
ALUMINUM 6063-T6 .060" THICK

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STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889