



## SUNDOR 5000 SLIDING GLASS DOOR "Large Missile Impact"

### GENERAL NOTES

1. This product has been evaluated and is in compliance with the 2010 Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone".
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the 2010 FBC and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.4 of the FBC.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

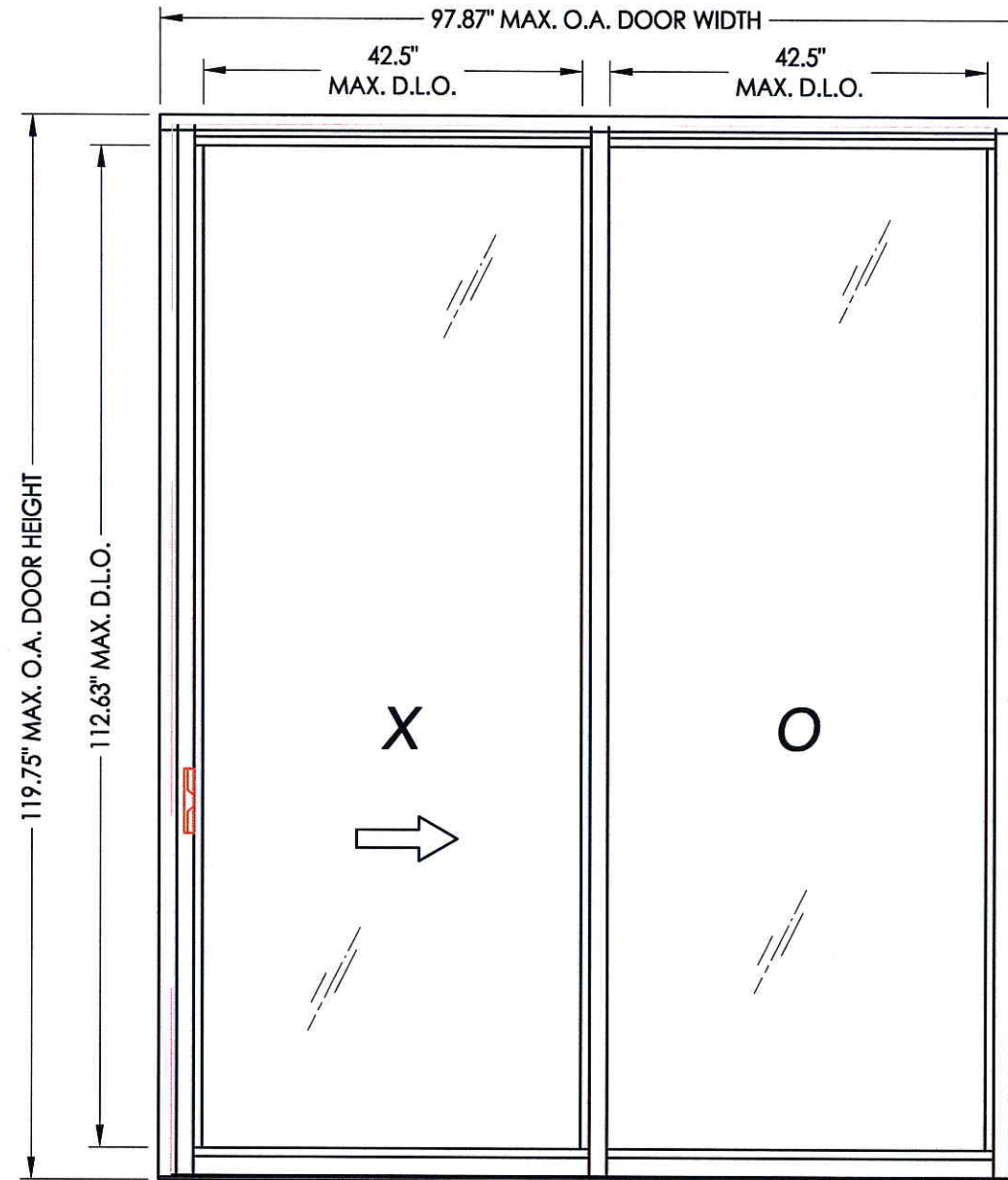


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O.A. FRAME DIMENSION	D.L.O. DIMENSION	REINFORCED	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
97.87" x 119.75"	42.50" x 112.63"	YES	G3, G4	100.0	100.0
			G1, G2	70.0	75.0
97.87" x 119.75"	42.50" x 112.63"	NO	G1, G2 G3, G4	70.0	75.0

Documents Prepared By:  
**RW** BUILDING CONSULTANTS, INC.  
 P.O. Box 230 Valrico FL 33595  
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 Florida Board of Professional Engineers  
 Certificate Of Authorization No. 9813  
*LFS* 8.27.12  
 Lyndon F. Schmidt, P.E. No. 43409

PRODUCT: SLIDING GLASS DOOR

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

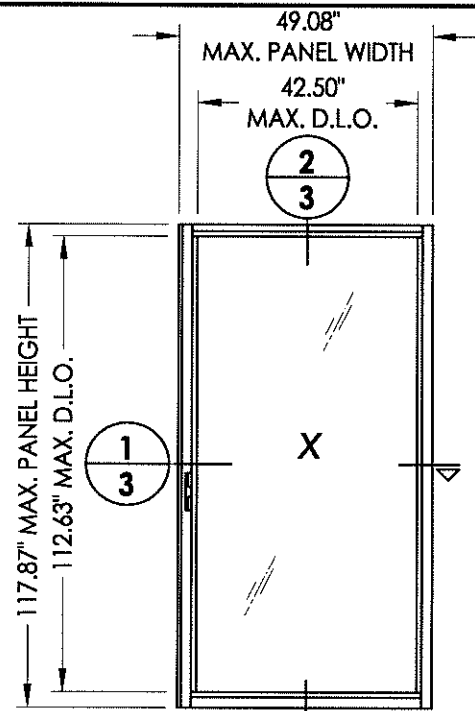
NO.	DATE	BY	REVISIONS

DATE: 8/24/12  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-15903.8  
 SHEET 1 OF 10

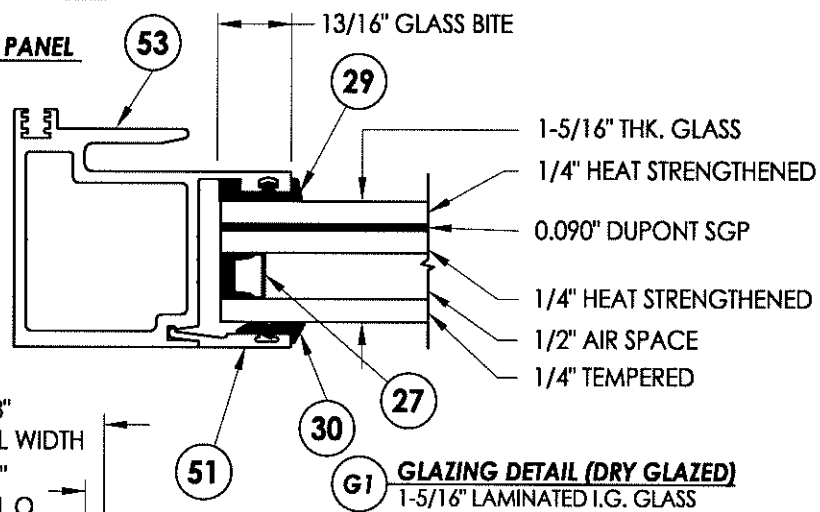
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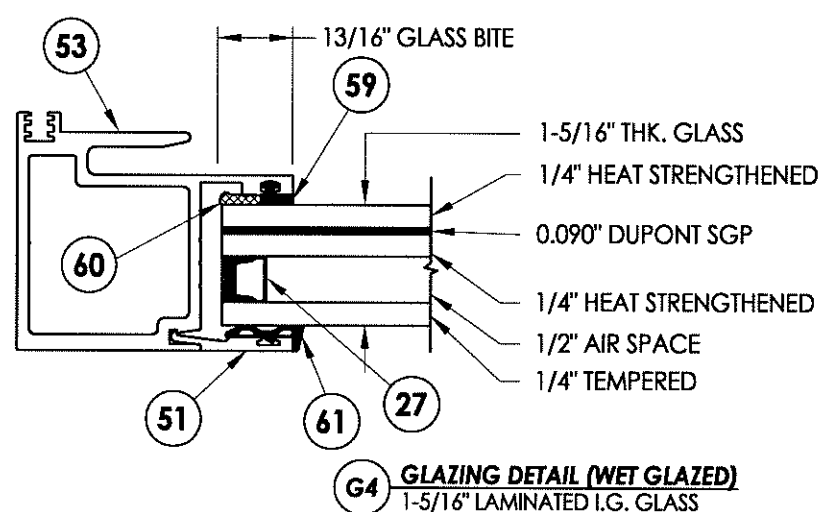
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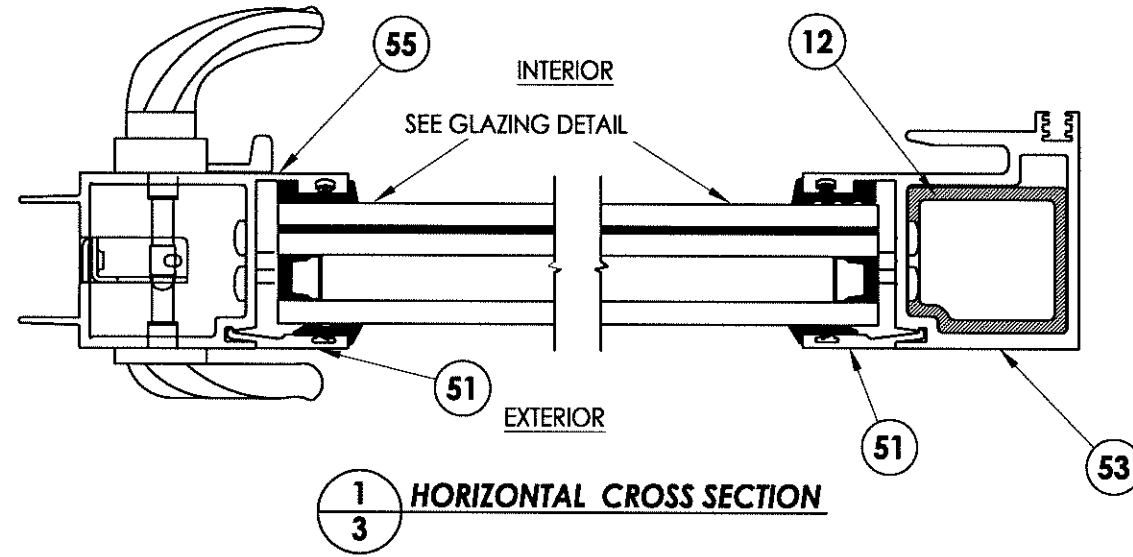
**OPERABLE PANEL**



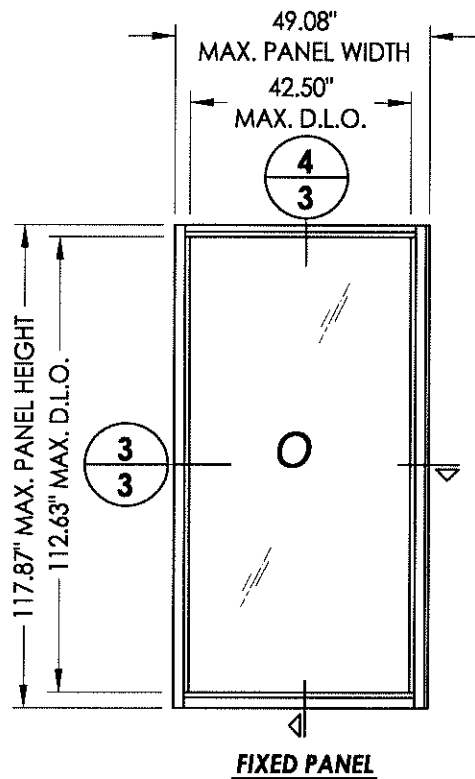
**G1 GLAZING DETAIL (DRY GLAZED)**  
1-5/16" LAMINATED I.G. GLASS



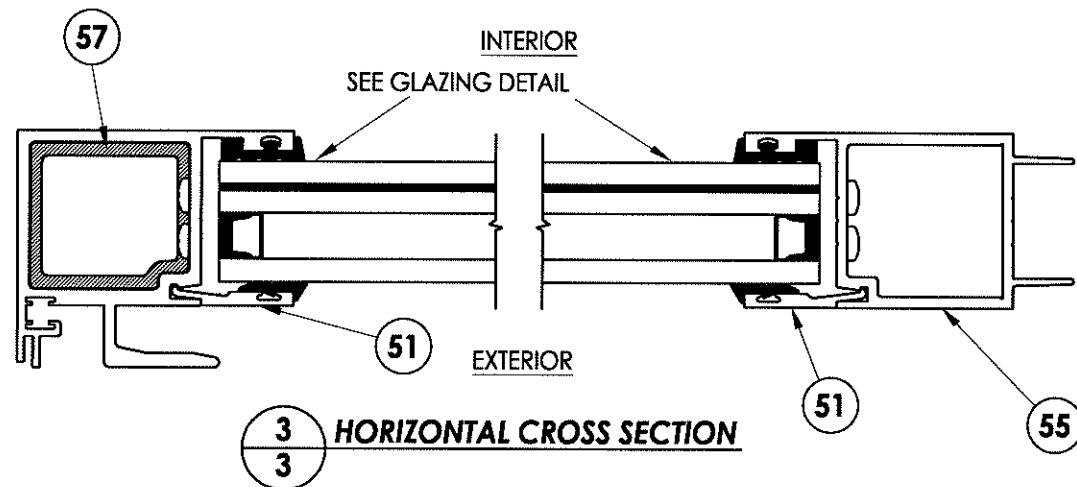
**G4 GLAZING DETAIL (WET GLAZED)**  
1-5/16" LAMINATED I.G. GLASS



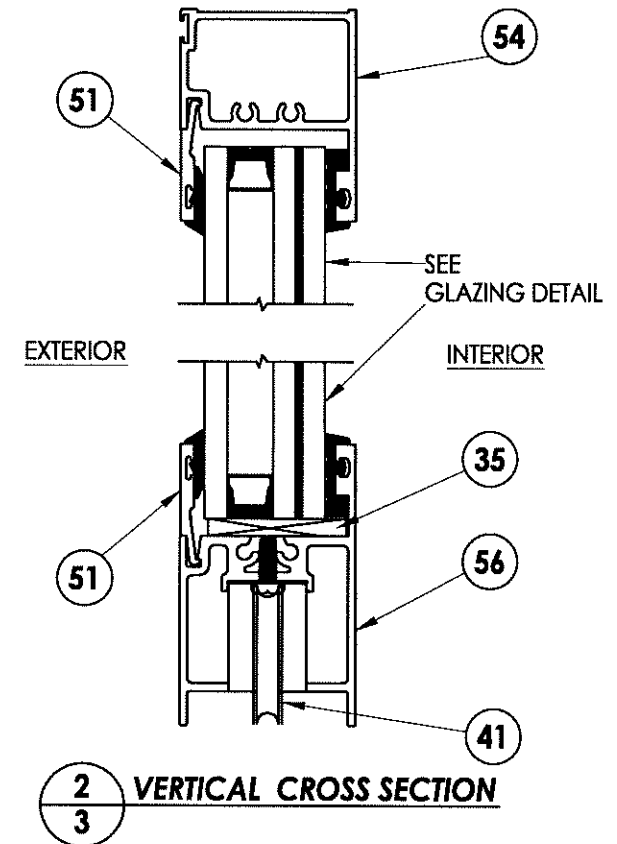
**1 HORIZONTAL CROSS SECTION**



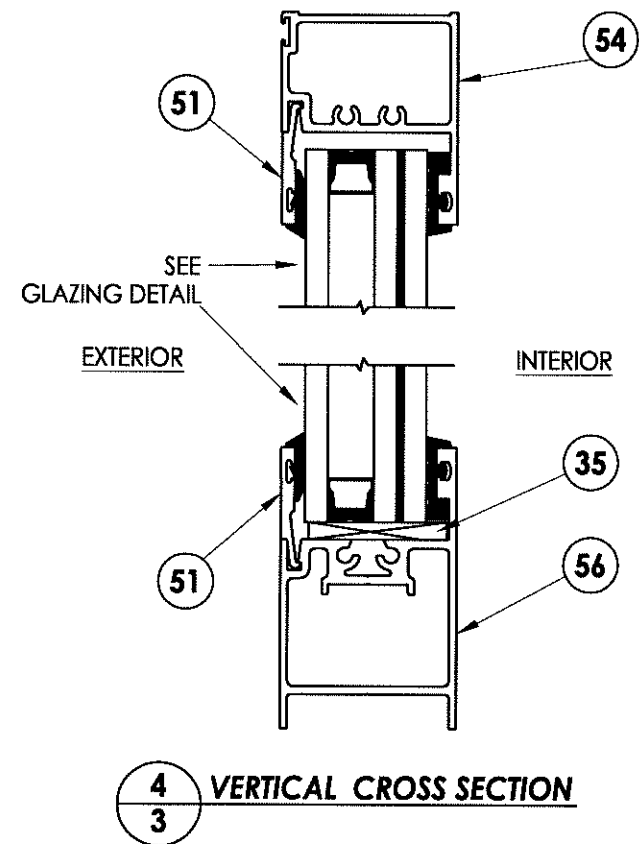
**FIXED PANEL**



**3 HORIZONTAL CROSS SECTION**



**2 VERTICAL CROSS SECTION**



**4 VERTICAL CROSS SECTION**

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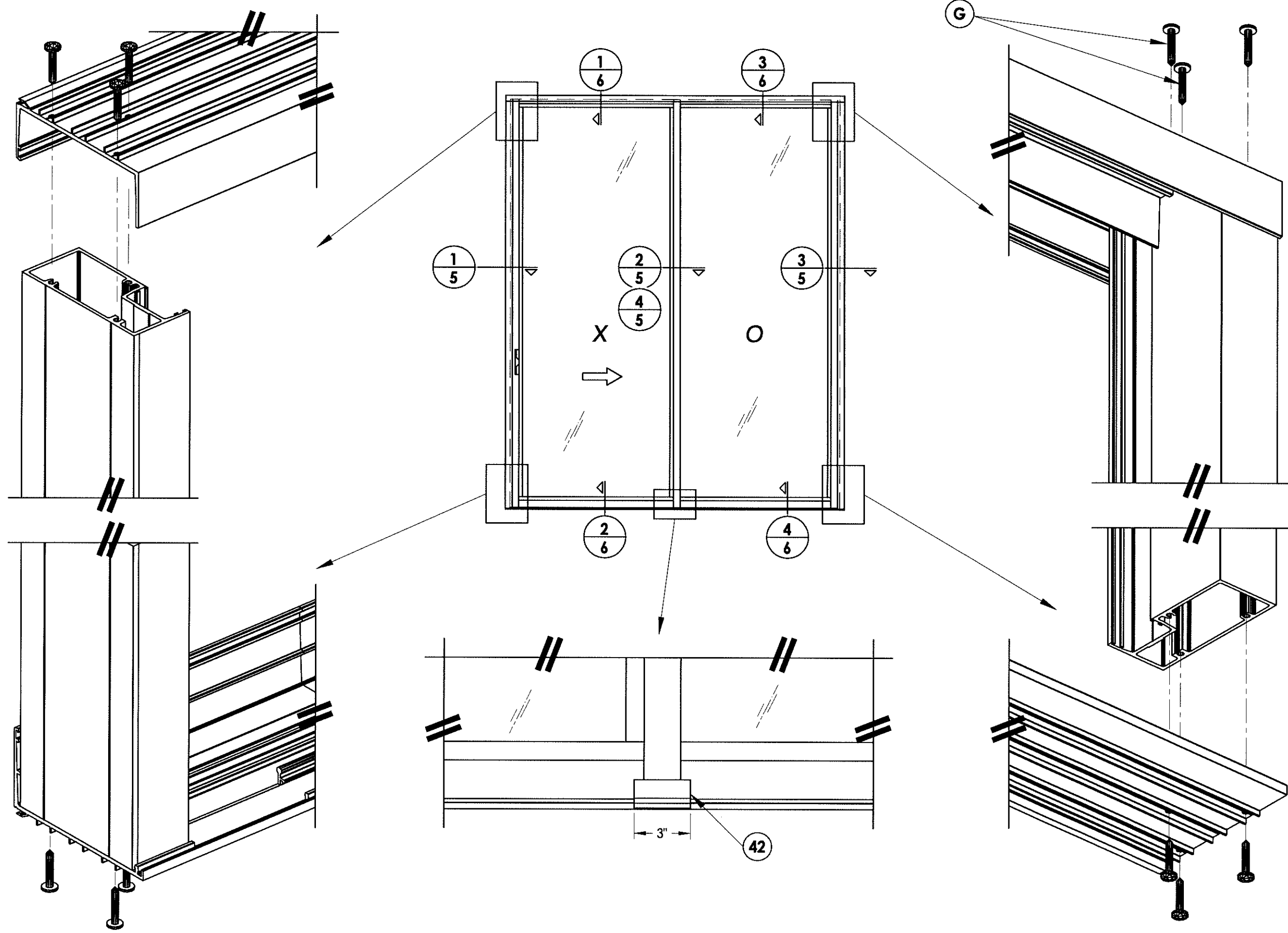
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*RFS* 8/27/12  
Lyndon F. Schmidt, P.E. No. 43409

PRODUCT: SLIDING GLASS DOOR

PART OR ASSEMBLY: DOOR PANEL SECTIONS

NO.	DATE	BY

DATE: 8/24/12  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-15903.8  
SHEET 3 OF 10



PRODUCT:

SLIDING GLASS DOOR

PART OR ASSEMBLY:

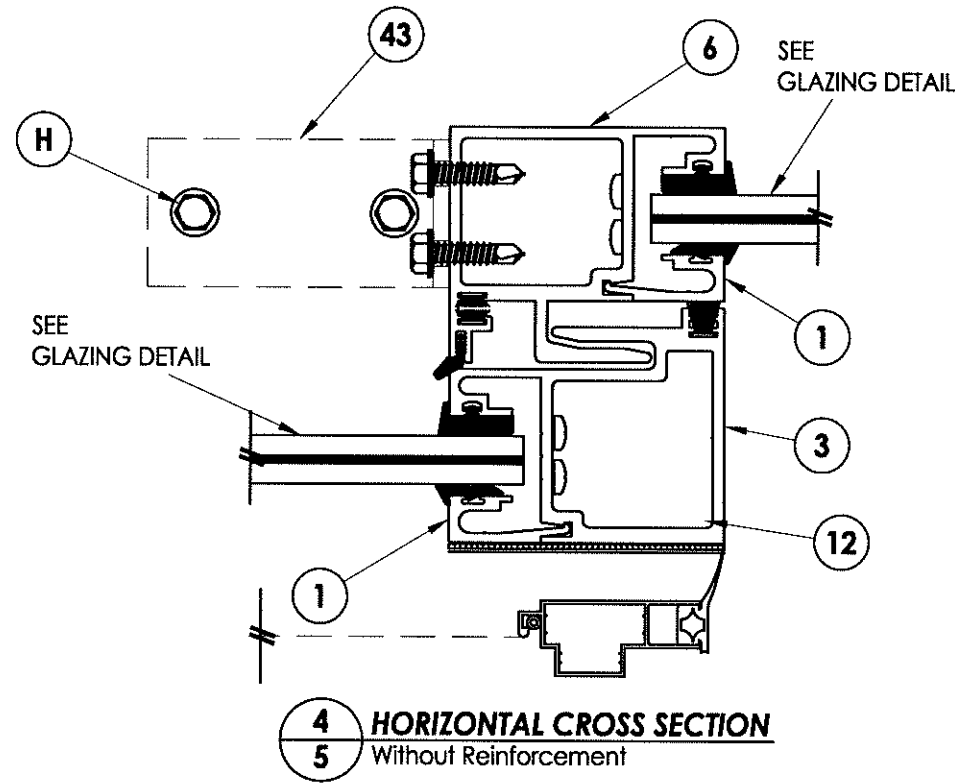
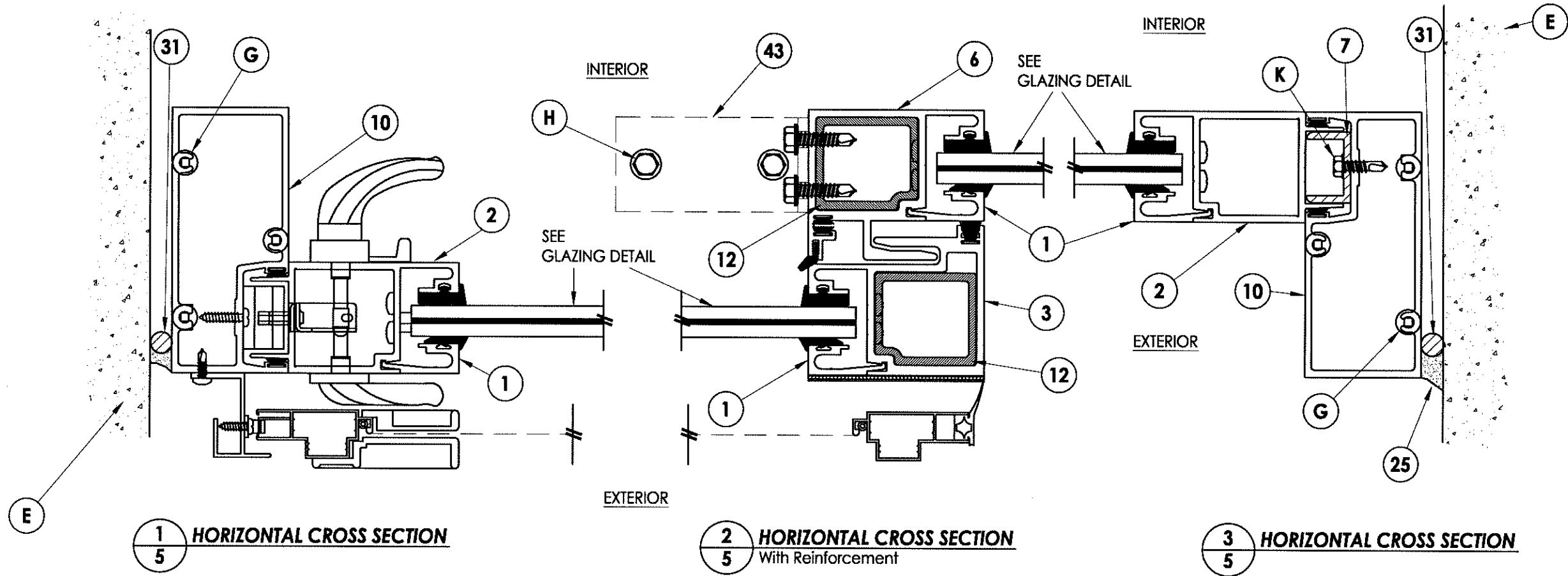
CORNER DETAILS

DATE: 8/24/12  
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 SHEET 4 OF 10

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*LFS* 8-27-12  
 Lyndon F. Schmidt, P.E. No. 43409

NO.	DATE	BY
REVISIONS		





PRODUCT:

SLIDING GLASS DOOR

PART OR ASSEMBLY:

HORIZONTAL CROSS SECTION

DATE: 8/24/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-15903.8

SHEET 5 OF 10

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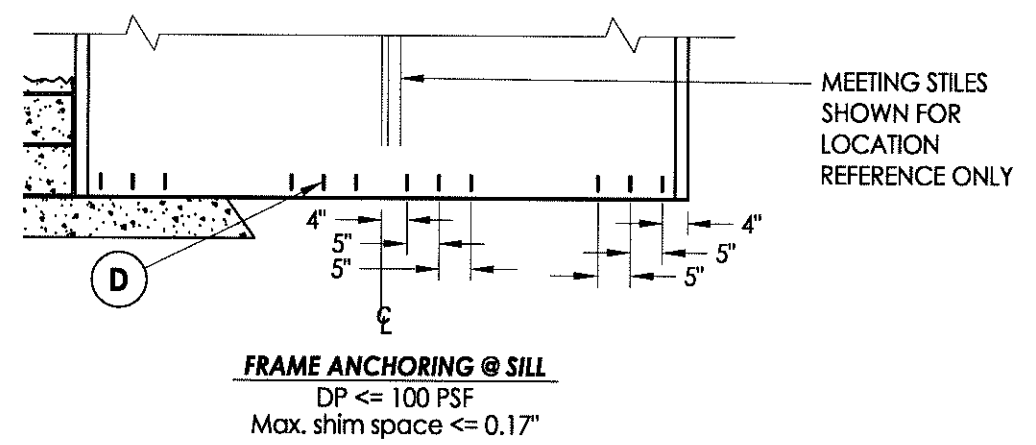
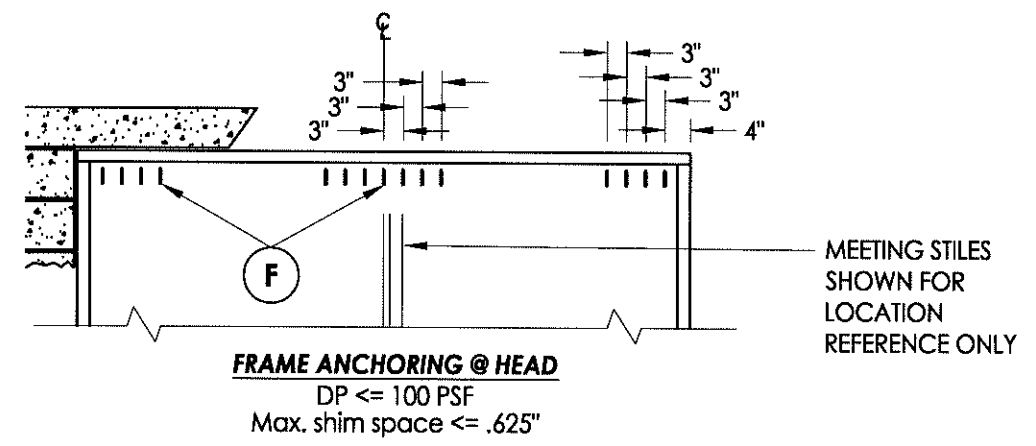
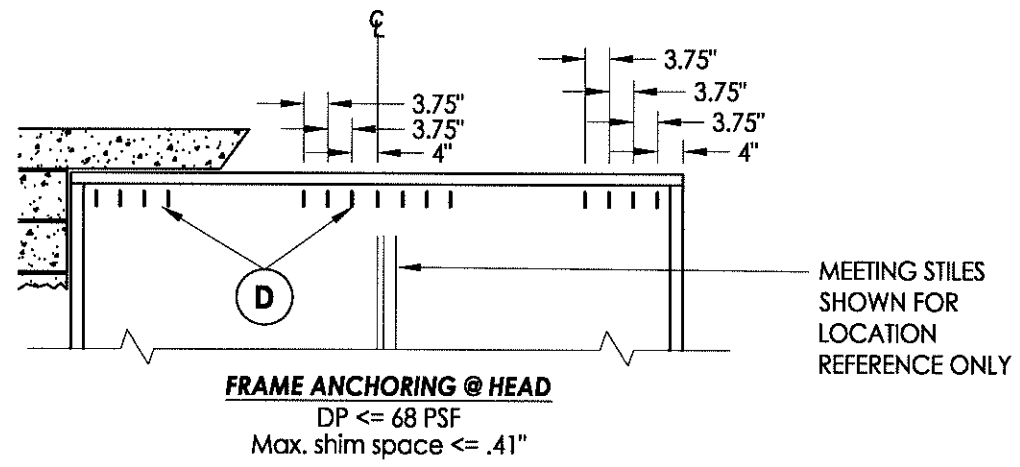
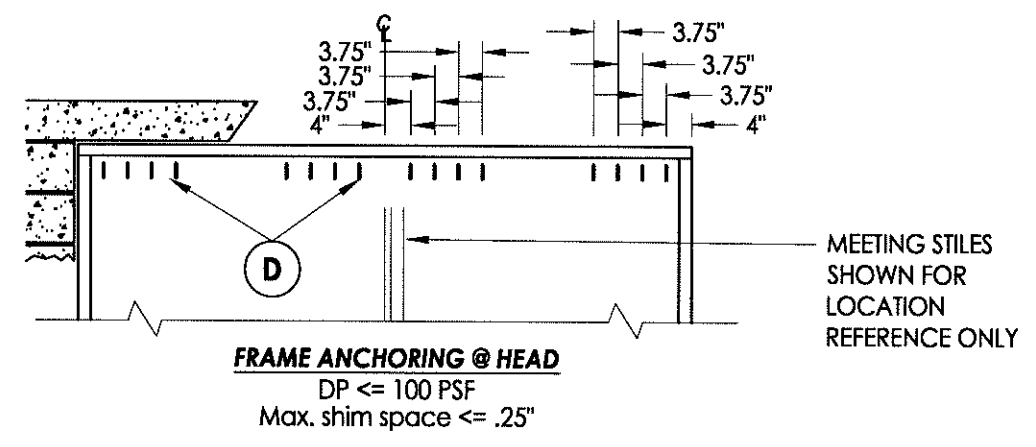
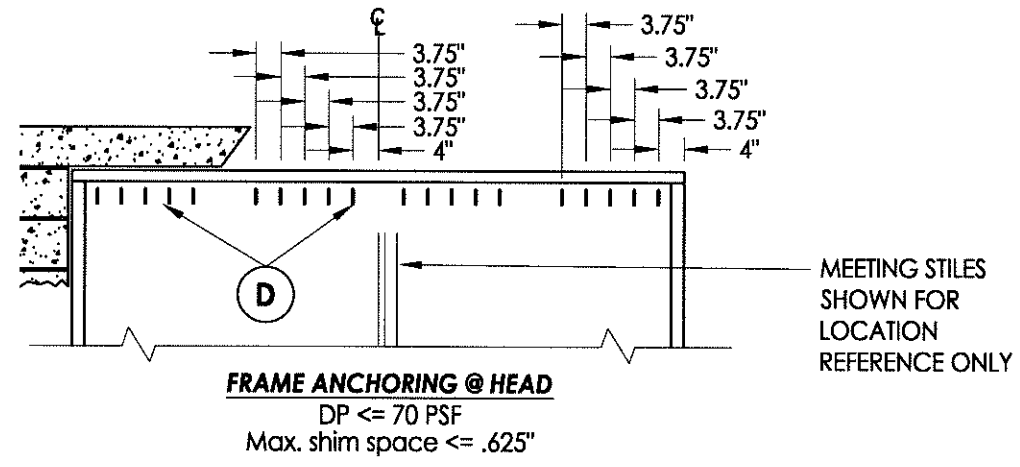
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REVISIONS





SUBSTRATE	ANCHOR SCHEDULE	
CONCRETE	D	5/16" x 2-3/4" ITW (XL) HWH concrete screw with 1.75" Min. embedment, 4" minimum edge distance and 3.75" minimum clearance to adjacent concrete anchors. Concrete is 2,899 PSI minimum conforming to ACI 301.
	F	3/8" diameter x 2-1/4" ITW Dyna-Bolt sleeve anchor with 1.5" minimum embedment, 2.5" minimum edge distance and 3.0" minimum clearance to adjacent concrete screws. Concrete is 2,000 PSI minimum conforming to ACI 301.

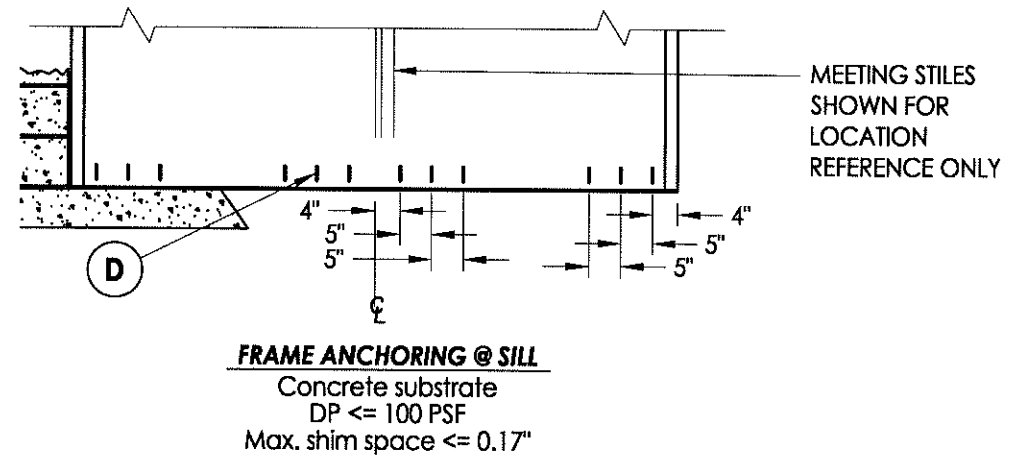
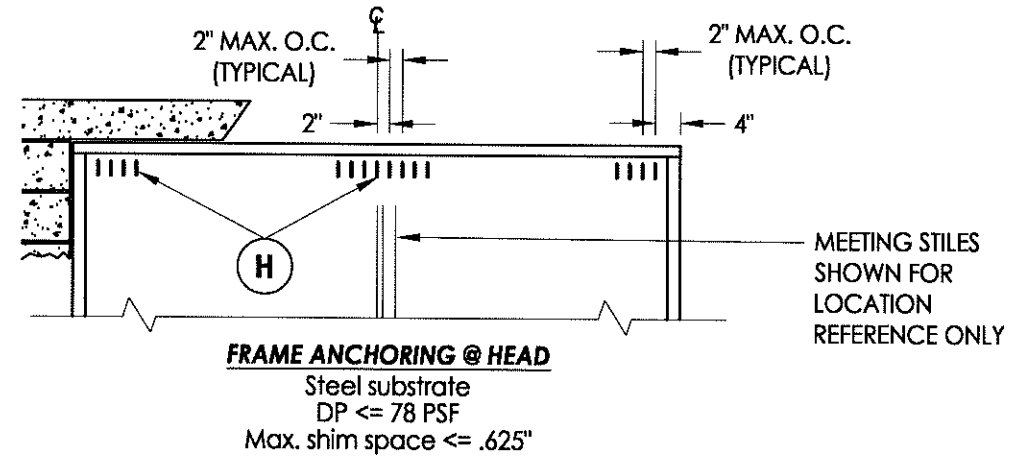
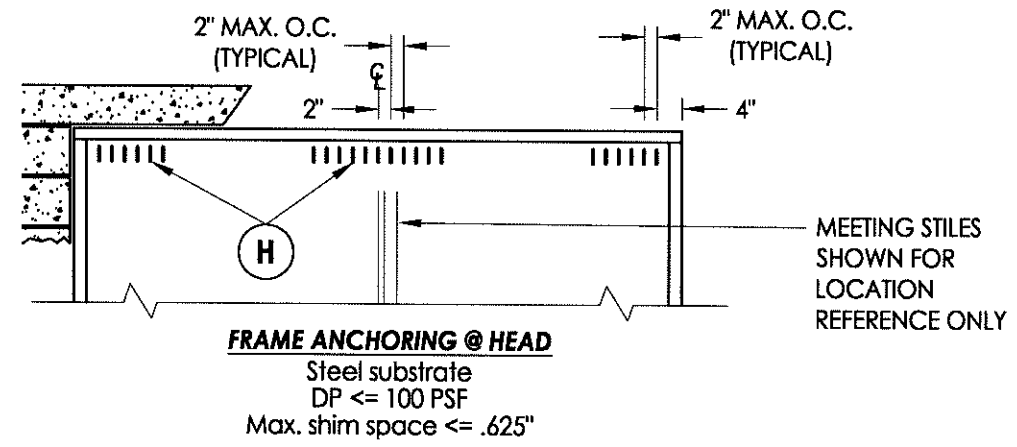
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PRODUCT: SLIDING GLASS DOOR  
 PART OR ASSEMBLY: ANCHORING CONCRETE SUBSTRATE

NO.	DATE	BY

DATE: 8/24/12  
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 DRAWING NO.: FL-15903.8  
 SHEET 7 of 10

SUBSTRATE	ANCHOR SCHEDULE	
CONCRETE	(D)	5/16" x 2-3/4" ITW (XL) HWH concrete screw with 1.75" Min. embedment, 4" minimum edge distance and 3.75" minimum clearance to adjacent concrete anchors. Concrete is 2,899 PSI minimum conforming to ACI 301.
STEEL	(H)	1/4"-20 HWH Hilti KWIK PRO self-drilling screws. Steel with 0.125" minimum wall thickness conforming to ASTM A500 Grade B, Fy = 46,000 PSI & Fu = 58,000 PSI or ASTM A653, Fy = 33,000 PSI, Fu = 45,000 PSI. Minimum embedment of 3 threads through steel substrate.



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*LFS* 8.27.12  
 Lyndon F. Schmidt, P.E. No. 43409

PRODUCT: SLIDING GLASS DOOR  
 PART OR ASSEMBLY: ANCHORING STEEL SUBSTRATE

NO.	DATE	BY

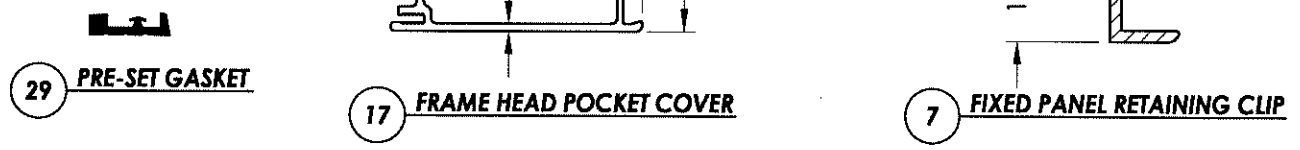
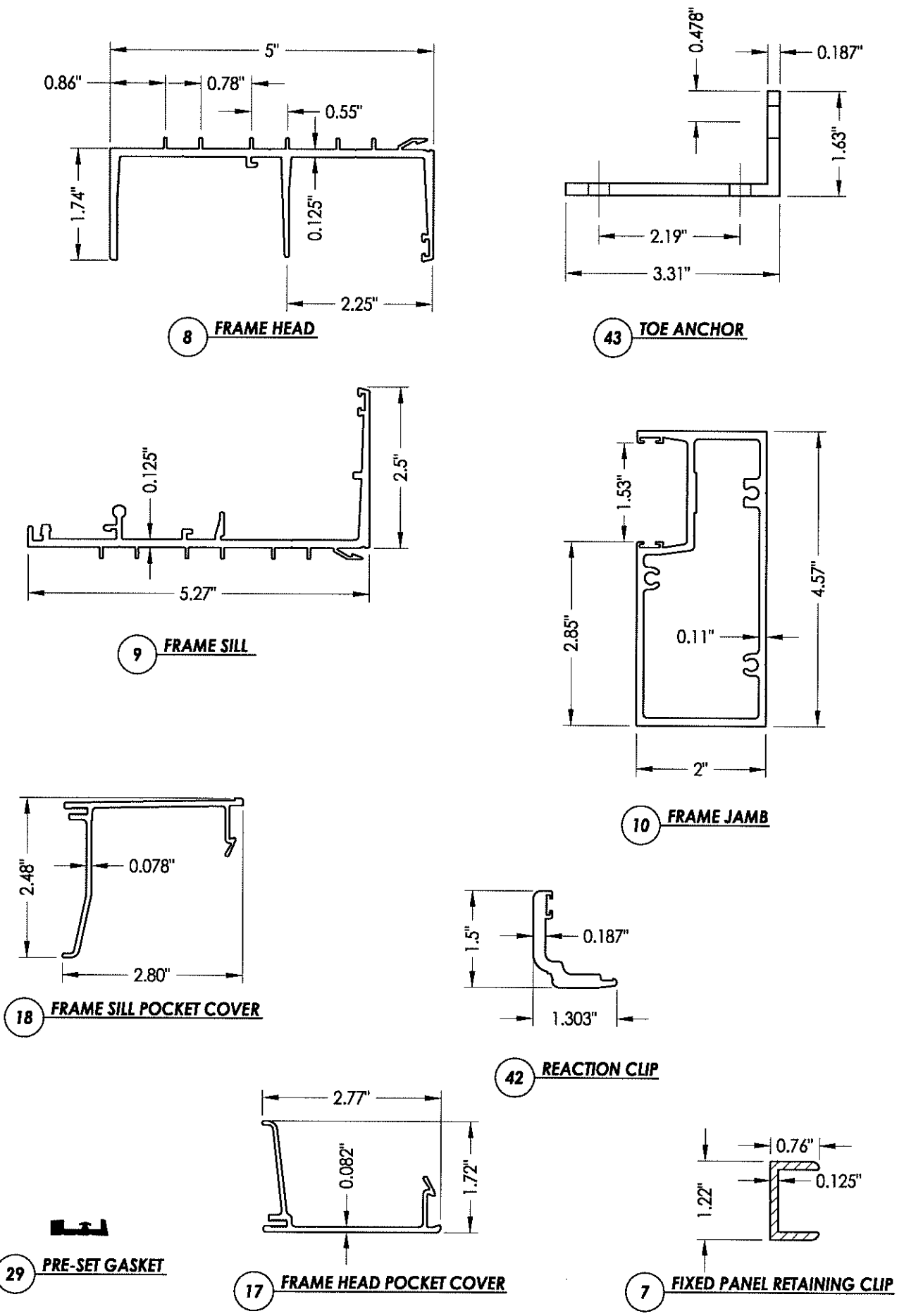
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 SHEET 8 OF 10





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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
D	5/16" X 2-3/4" ITW HWH CONCRETE SCREW	STEEL
E	MASONRY - 3,192 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	3/8" X 2-1/2" DYNA BOLT SLEEVE ANCHOR	STL. STEEL
G	#10 X 1-1/2" SQ-PH ASSEMBLY SCREW	STL. STEEL
H	1/4"-20 HWH HILTI KWIK PRO SELF-DRILLING SCREW (WITH KWIK-COTE COATING)	STL. STEEL
K	#10 X 3/4" HH-SELF TAP SCREW	STL. STEEL
1	GLAZING BEAD 6063-T6 (9/16")	ALUM
2	LEAD STYLE 6063-T6 (9/16")	ALUM
3	INTERLOCK STILE - MOVING PANEL 6005-T5 (9/16")	ALUM
4	TOP RAIL 6063-T6 (9/16")	ALUM
5	BOTTOM RAIL - MOVING PANEL 6063-T6 (9/16")	ALUM
6	INTERLOCK STILE - FIXED PANEL 6005-T6 (9/16")	ALUM
7	FIXED PANEL RETAINING CLIP 6063-T6	ALUM
8	FRAME HEAD 6063-T6	ALUM
9	FRAME SILL 6063-T6	ALUM
10	FRAME JAMB 6063-T6	ALUM
12	REINFORCEMENT 6005-T5	ALUM
17	FRAME HEAD POCKET COVER 6063-T6	ALUM
18	FRAME SILL POCKET COVER 6063-T6	ALUM
25	WEATHERSEAL SEALANT (WS001) DOW 795	SILICONE
27	GASKET, EPDM CLOSED CELL FOAM (9/16" STRUCTURAL GLAZING)	-
28	GASKET, EPDM CLOSED CELL FOAM (1-5/16" GLAZING)	EPDM
29	WEDGE 70±5 EPDM (1-5/16" GLAZING)	EPDM
30	WEDGE GASKET (EXTERIOR)	EPDM
31	BACKER ROD - CLOSED CELL EXTRUDED FOAM	POLYETHYLENE
34	SHIM	-
35	SETTING/EDGE BLOCK	PLASTIC
41	ROLLER ASSM.	STL. STEEL
42	REACTION CLIP 6005-T5	ALUM
43	TOE ANCHOR 6005-T5	STEEL
51	I.G. GLAZING BEAD 6063-T6	ALUM
53	I.G. INTERLOCK STILE - MOVING PANEL 6005-T5	ALUM
54	I.G. TOP RAIL 6063-T6	ALUM
55	I.G. LEAD STILE 6063-T6 (1-5/16")	ALUM
56	I.G. BOTTOM RAIL - MOVING PANEL 6063-T6 (1-5/16")	ALUM
57	INTERLOCK STILE - FIXED PANEL 6005-T5 (1-5/16")	ALUM
59	CAULK STOP, EPDM CLOSED CELL FOAM (9/16" STRUCTURAL GLAZING)	EPDM
60	STRUCTURAL SILICONE DOW 995	SILICONE
61	WEDGE, 70±5 EPDM (9/16" GLAZING)	EPDM



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PRODUCT: SLIDING GLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 8/24/12  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-15903.8  
SHEET 10 of 10

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