SUN METALS

5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634

SUNDOR 5000
SLIDING GLASS DOOR

"SMALL MISSILE IMPACT"

GORDON D. THOMAS LICENSE No. 46718 STATE OF FLORIDA PROFESSIONAL ENGINEER

9/11/25
FL46718

GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).

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 installed greater than 30 feet above grade in areas requiring wind borne debris protection this product complies with Section 1626.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "A" and includes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.2 of the FBC.

4. When installed 30 feet or less above grade in areas requiring wind borne debris protection this product must be protected win an impact resistant covering that complies with Section 1609.1.2 of the FBC.

5. 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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9	ANCHORING - STEEL SUBSTRATE
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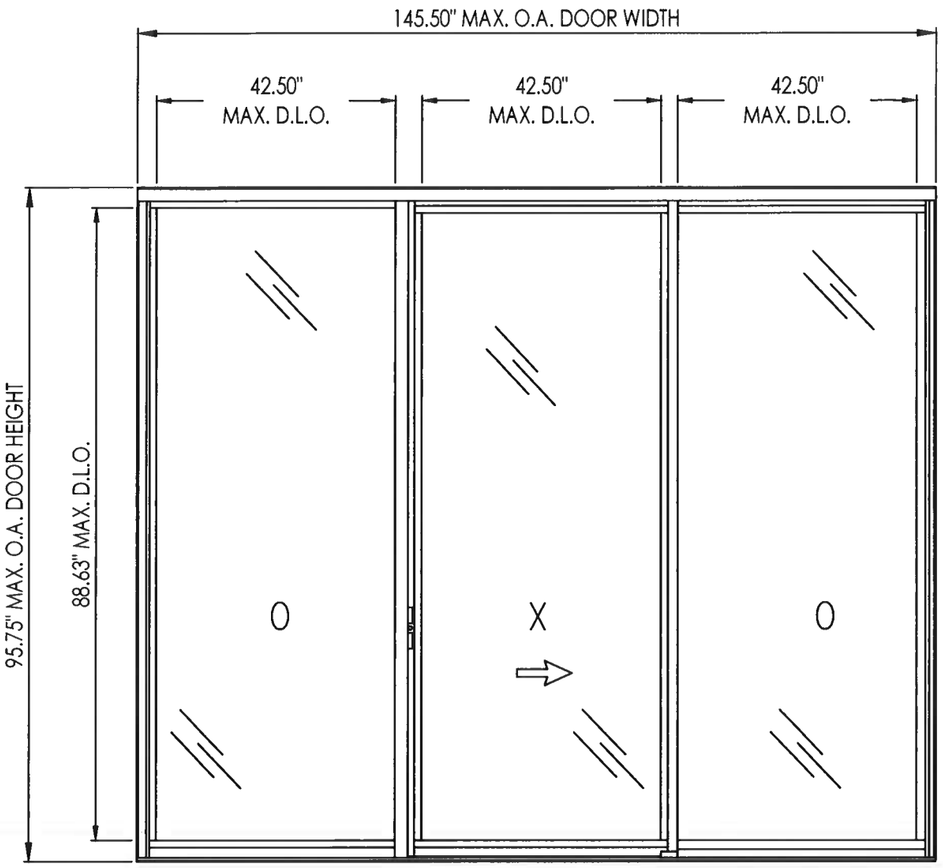

O.A. FRAME DIMENSION	D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
145.50" x 95.75"	42.50" x 88.63"	G1	115.0	135.0
145.50" x 95.75"	42.50" x 88.63"	G2	115.0	135.0

5008 TAMPA WEST BLVD.
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SUN METALS

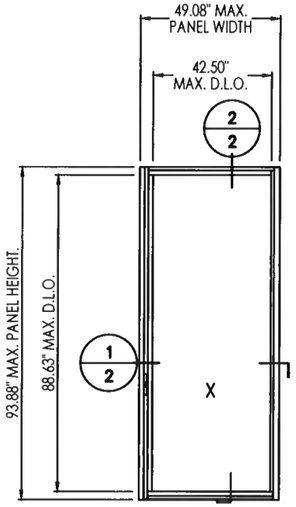
PRODUCT: SLIDING GLASS DOOR

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

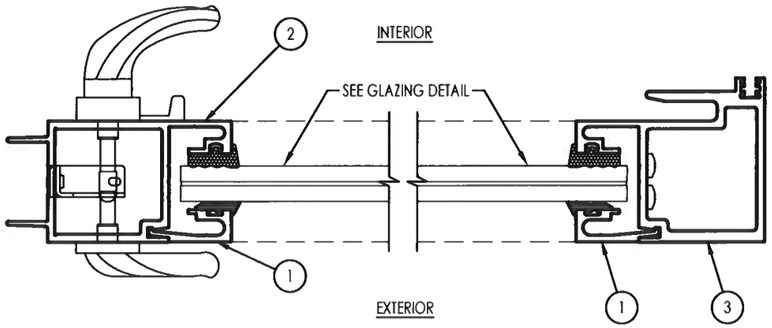
NO	DATE	DESCRIPTION	BY
5	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
4	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB
3	8/9/19	UPDATE TO 6TH ED. (2017) FBC	ECV
2	2/26/16	CHANGE INT. .060 SCP TO .060 PVB	CO
1	2/18/15	UPDATE TO 5TH ED. (2014) FBC	LFS

REVISIONS

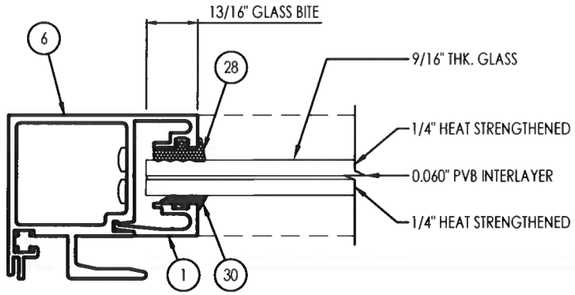
DATE: 02/26/16
SCALE: NTS
DWG. BY: CO
CHK BY: ECV
DRAWING NO.: FL-15903.14
SHEET: 1 OF 11



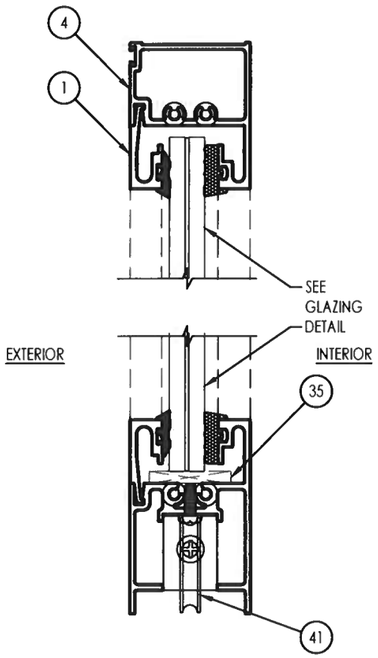
OPERABLE PANEL



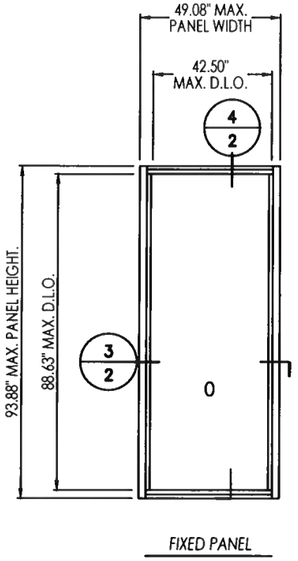
1/2 HORIZONTAL CROSS SECTION



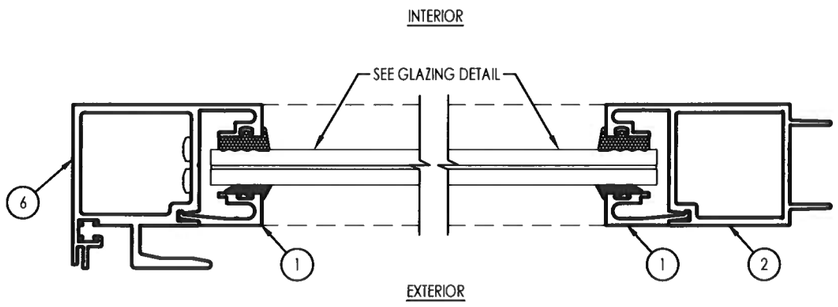
G2 GLAZING DETAIL (DRY GLAZED)
MONOLITHIC
9/16" LAMINATED GLASS



2/2 VERTICAL CROSS SECTION



FIXED PANEL



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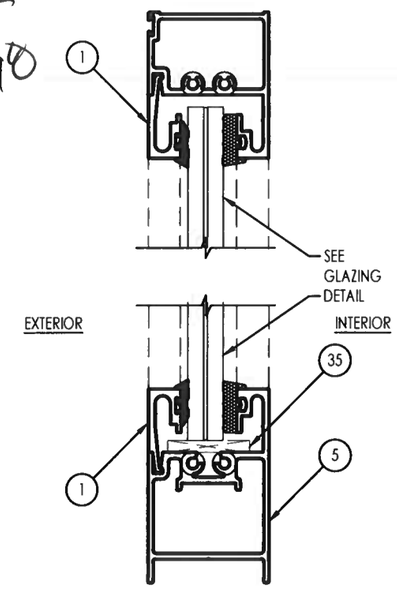

4/2 VERTICAL CROSS SECTION

GORDON D. THOMAS
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No. 46718
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PROFESSIONAL ENGINEER

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PART OR ASSEMBLY: DOOR PANEL DETAILS

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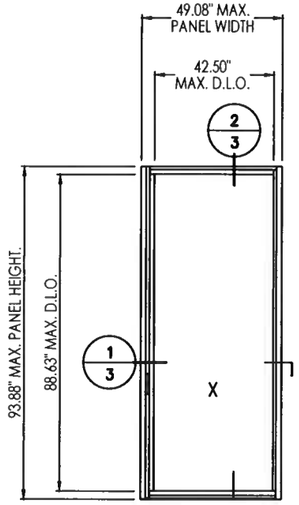
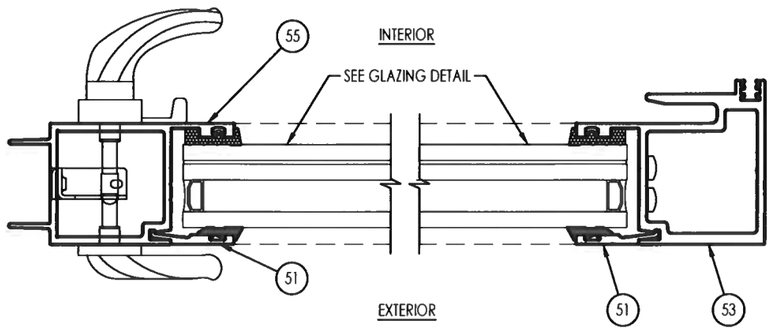
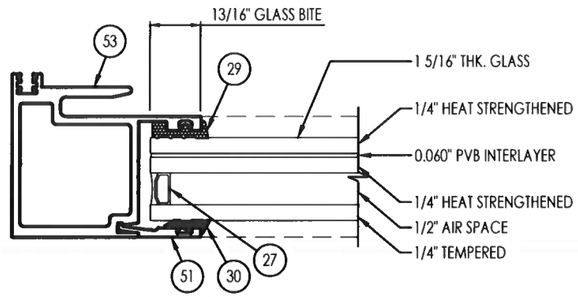
CHK BY: ECV
DRAWING NO.: FL-15903.14
SHEET: 2 OF 11



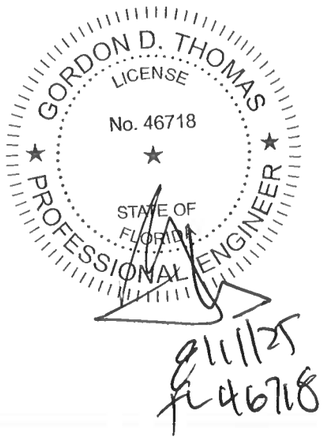
OPERABLE PANEL

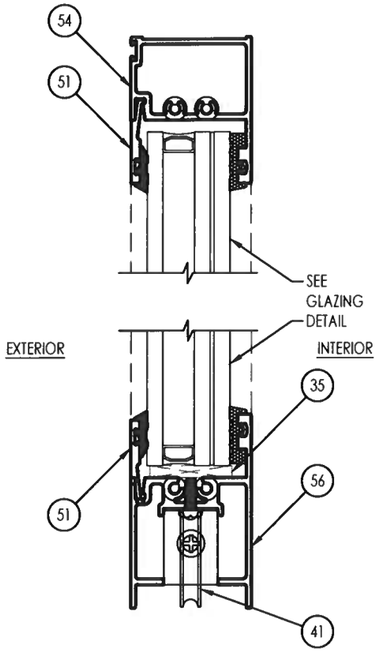


1/3 HORIZONTAL CROSS SECTION

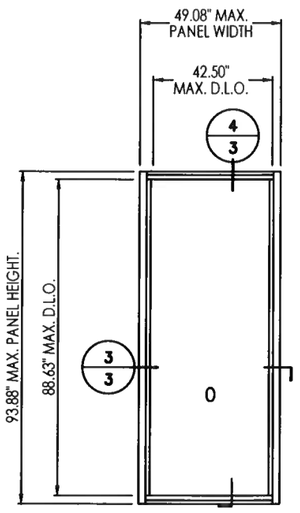


G1 GLAZING DETAIL (DRY GLAZED)
1 5/16" LAMINATED I.G. GLASS

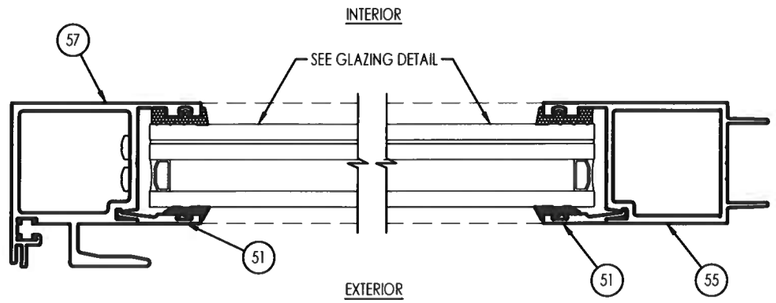




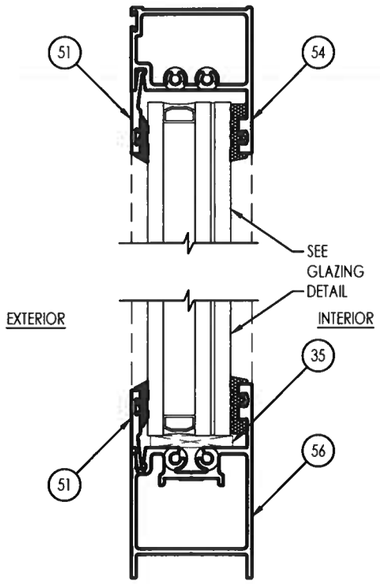
2/3 VERTICAL CROSS SECTION



FIXED PANEL



3/3 HORIZONTAL CROSS SECTION



4/3 VERTICAL CROSS SECTION

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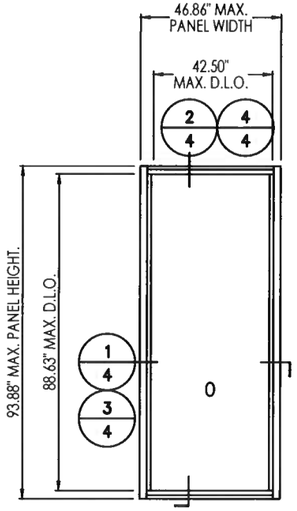
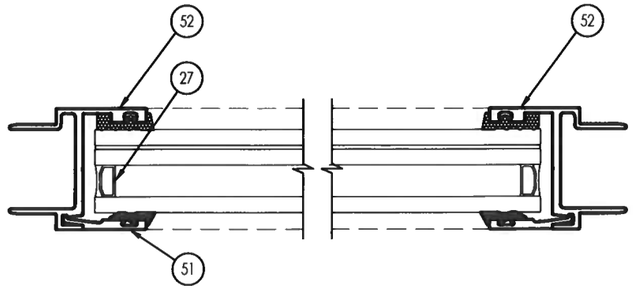
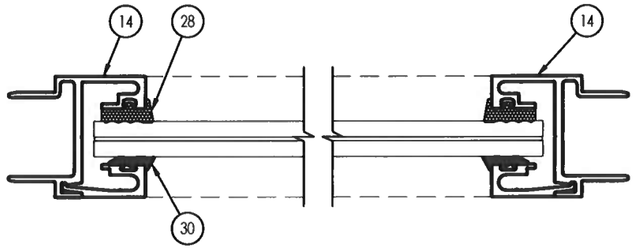
SHEET: 3 OF 11



SIDELITE PANEL



1/4 HORIZONTAL CROSS SECTION



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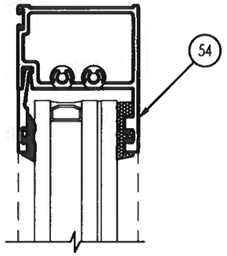
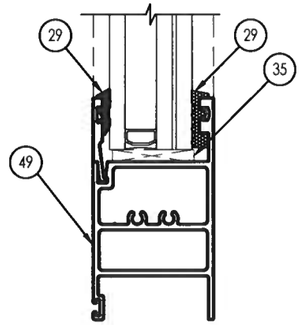
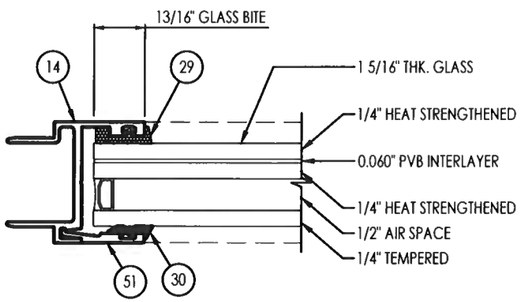




2/4 VERTICAL CROSS SECTION



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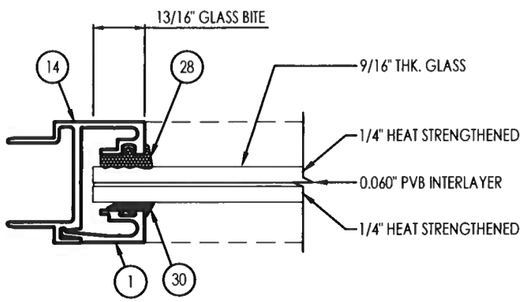
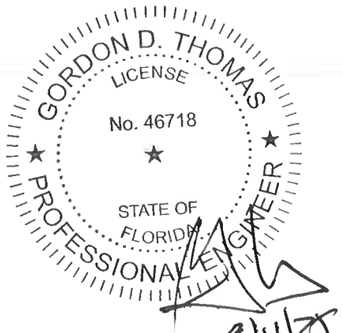
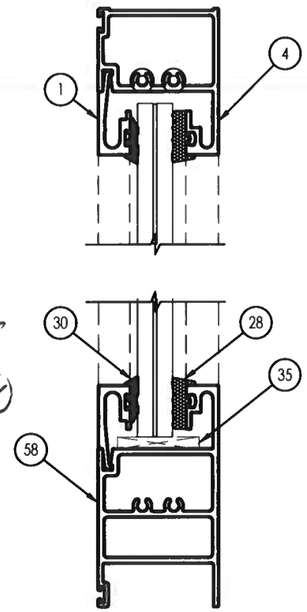
1 5/16" LAMINATED I.G. GLASS



G2 GLAZING DETAIL
MONOLITHIC
9/16" LAMINATED GLASS





4/4 VERTICAL CROSS SECTION

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SUN METALS

PRODUCT: SLIDING GLASS DOOR

PART OR ASSEMBLY: SIDELITE PANEL DETAILS

NO	DATE	DESCRIPTION	BY
5	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
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REVISIONS

DATE: 02/26/16

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DWG. BY: CO

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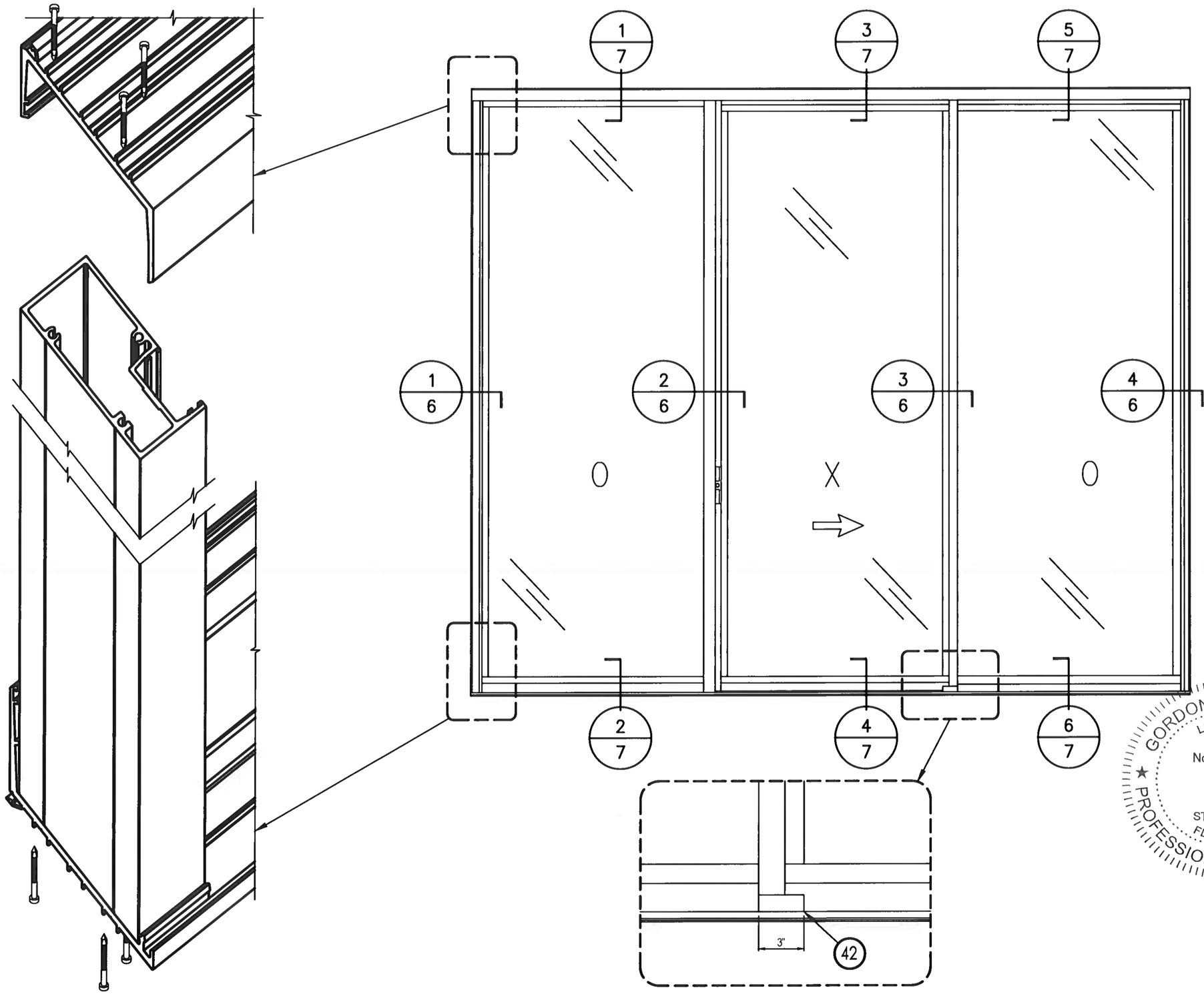
DRAWING NO.: FL-15903.14

SHEET: 4 OF 11



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SUN METALS

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PART OR ASSEMBLY: CORNER DETAILS

NO	DATE	DESCRIPTION	BY
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5	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
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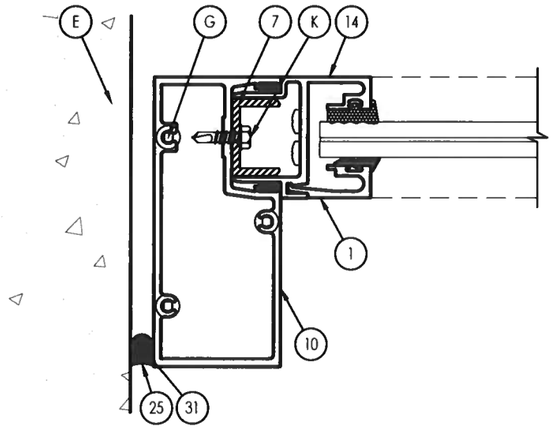
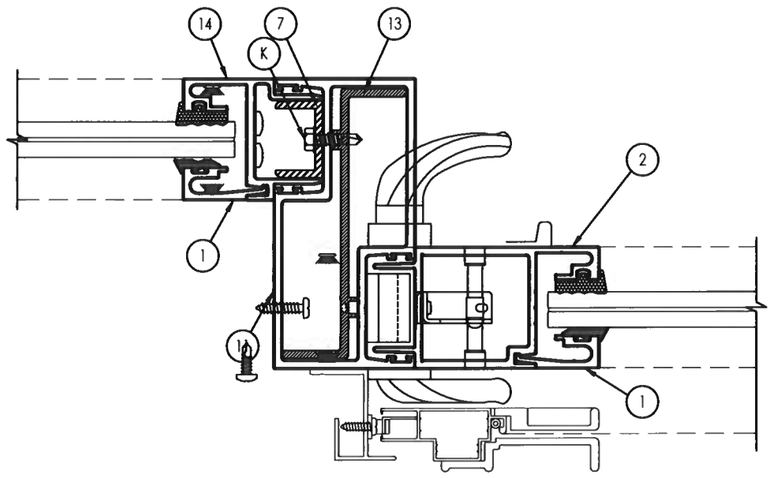
SHEET: 5 OF 11



1/6 HORIZONTAL CROSS SECTION



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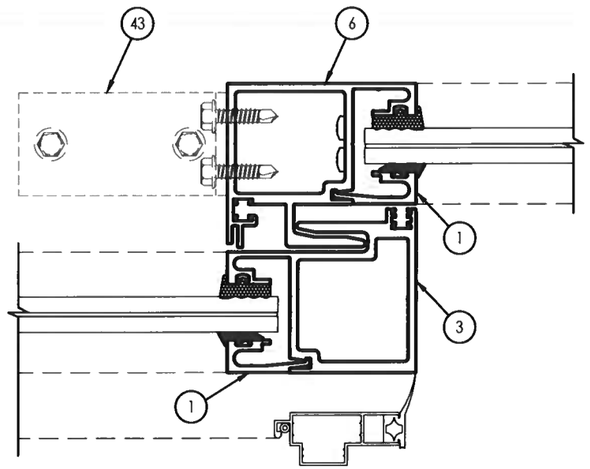

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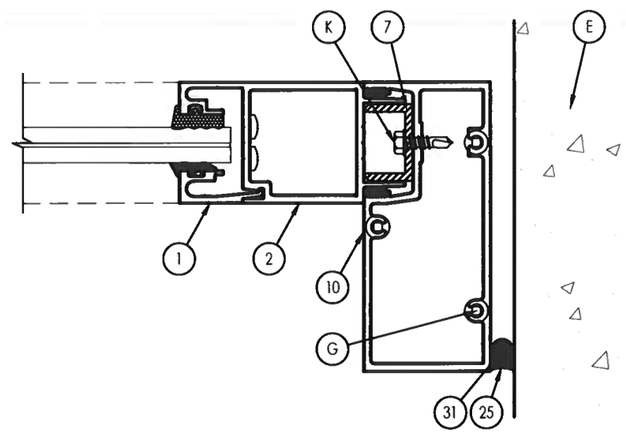

4/6 HORIZONTAL CROSS SECTION

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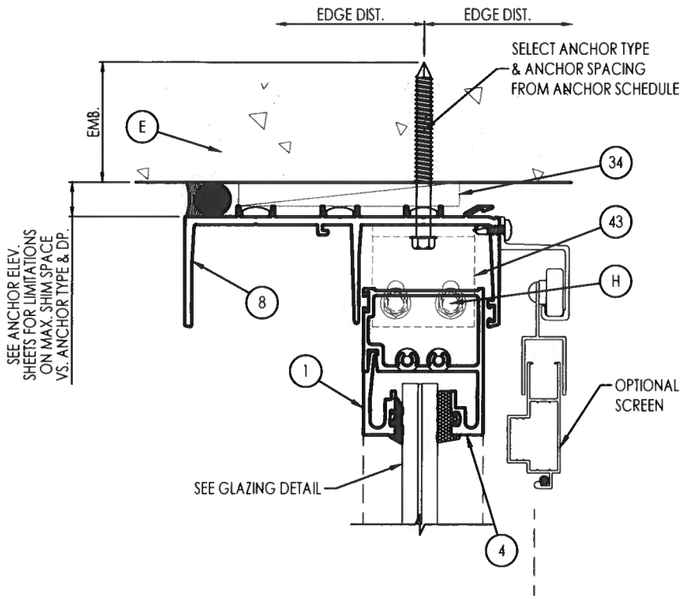
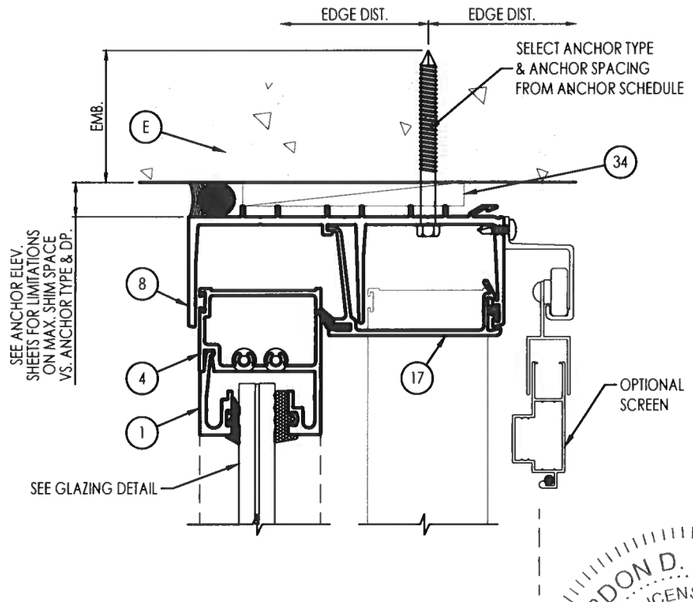
SHEET: 6 OF 11



1/7 VERTICAL CROSS SECTION



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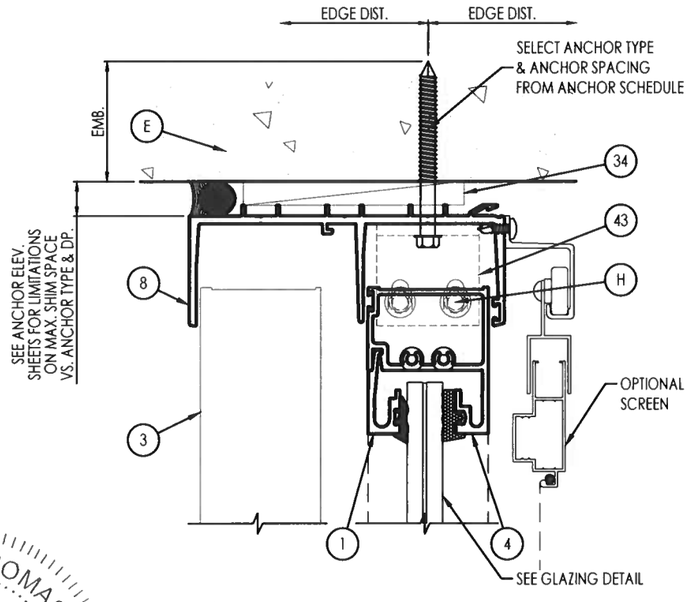
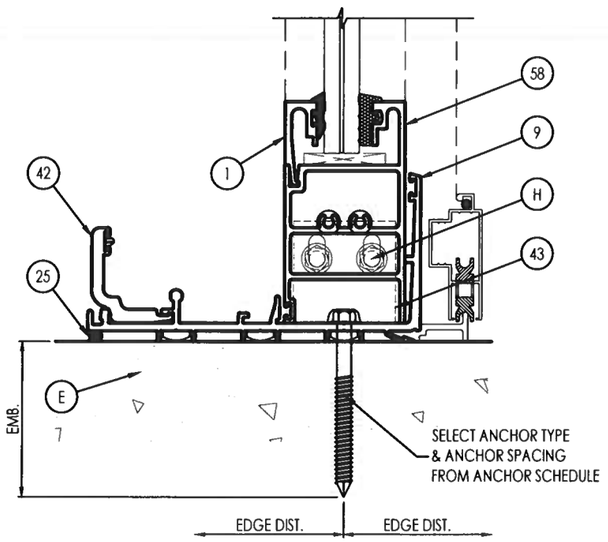
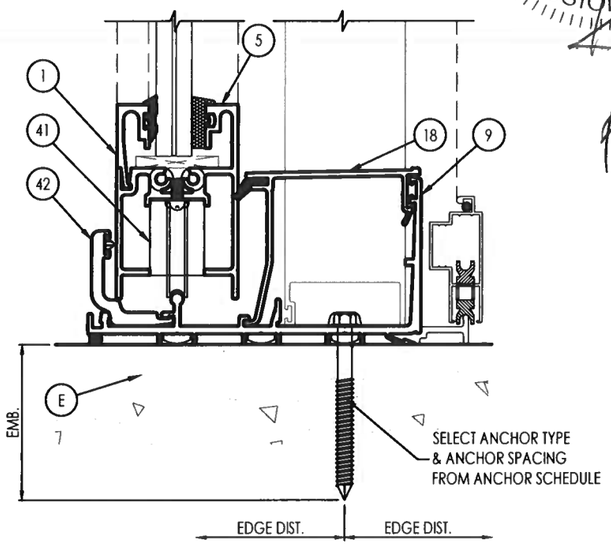


5/7 VERTICAL CROSS SECTION



2/7 VERTICAL CROSS SECTION



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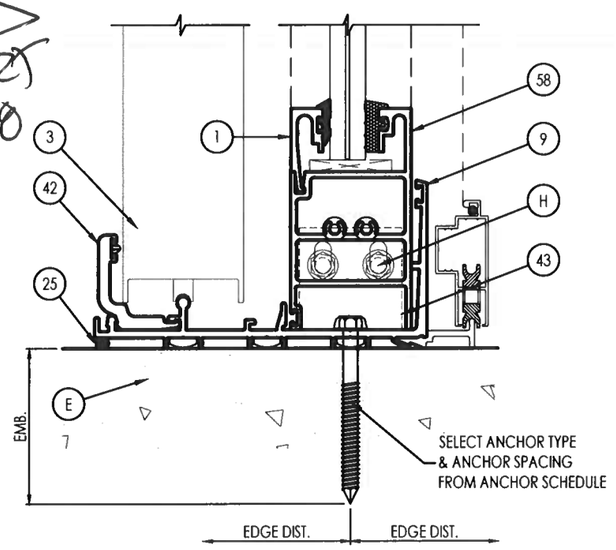

6/7 VERTICAL CROSS SECTION

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1	2/18/15	UPDATE TO 5TH ED. (2014) FBC	LFS

DATE: 02/26/16

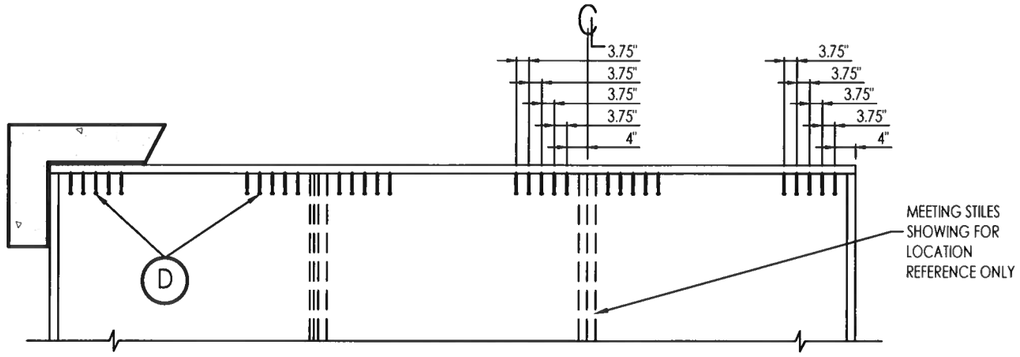
SCALE: NTS

DWG. BY: CO

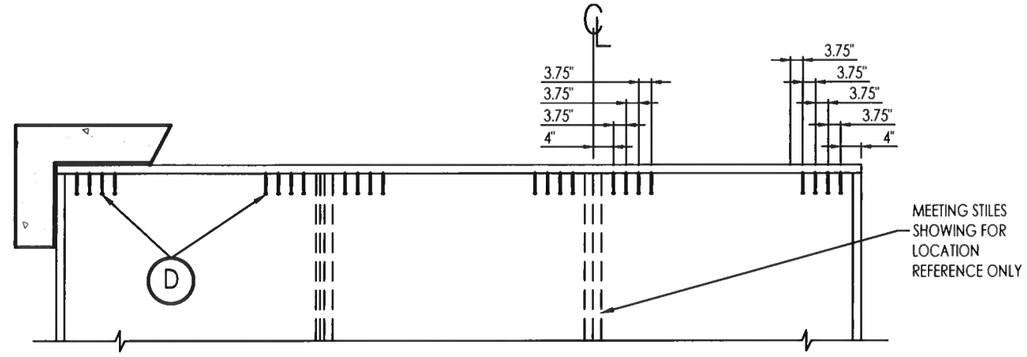
CHK BY: ECV

DRAWING NO.: FL-15903.14

SHEET: 7 OF 11



FRAME ANCHORING @ HEAD
DP <= 80 PSF
Max. shim space <= .625



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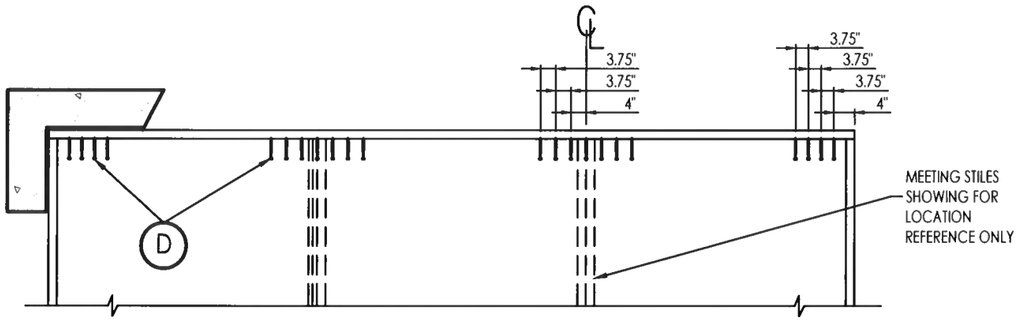

FRAME ANCHORING @ HEAD
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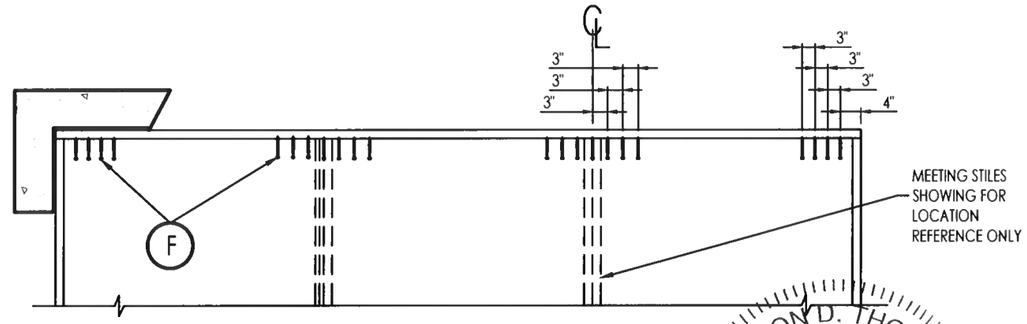
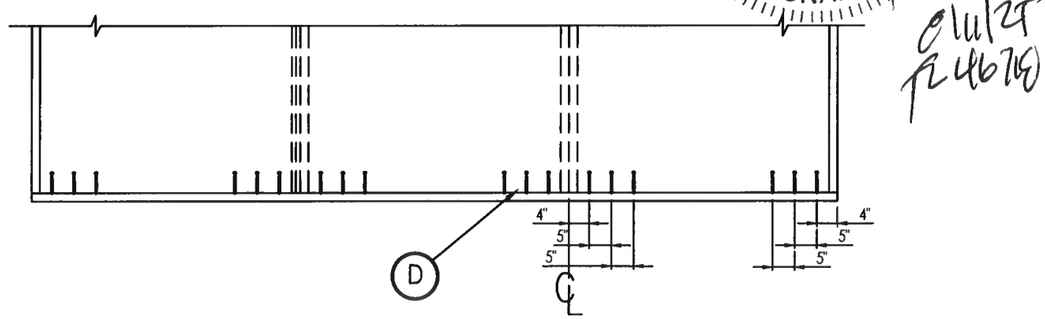


FRAME ANCHORING @ HEAD
DP <= 135 PSF
Max. shim space <= .625

SUBSTRATE		ANCHOR SCHEDULE
CONCRETE	(D)	5/16" Ø HWH ITW Tapcon® XL concrete anchor with 1-3/4" min. embedment, 2-3/16" minimum edge distance and 3-3/4" minimum clearance to adjacent concrete anchors. Concrete is 3,000 PSI minimum conforming to ACI 301.
	(F)	3/8" Ø ITW Dynabolt Sleeve Anchor with 1-1/2" min. embedment, 2-1/2" minimum edge distance and 3" minimum clearance to adjacent concrete anchors. Concrete is 3,000 PSI minimum conforming to ACI 301.



FRAME ANCHORING @ SILL
DP <= 135 PSF
Max. shim space <= .17

GORDON D. THOMAS
LICENSE
No. 46718
STATE OF FLORIDA
PROFESSIONAL ENGINEER

6/11/25
FL 46718

5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

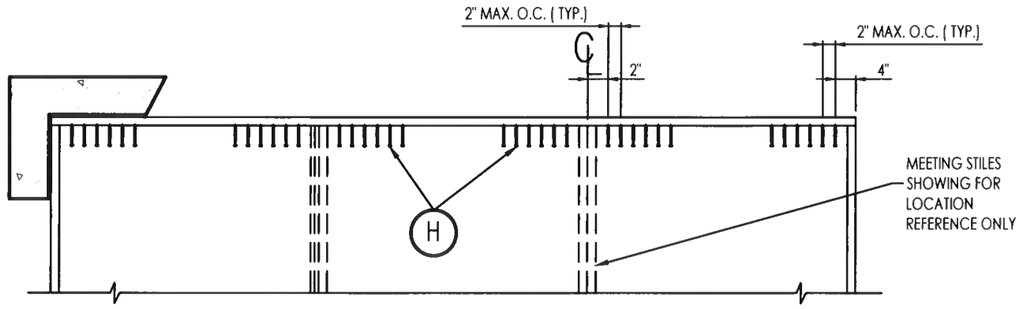
SUN METALS

PRODUCT: SLIDING GLASS DOOR

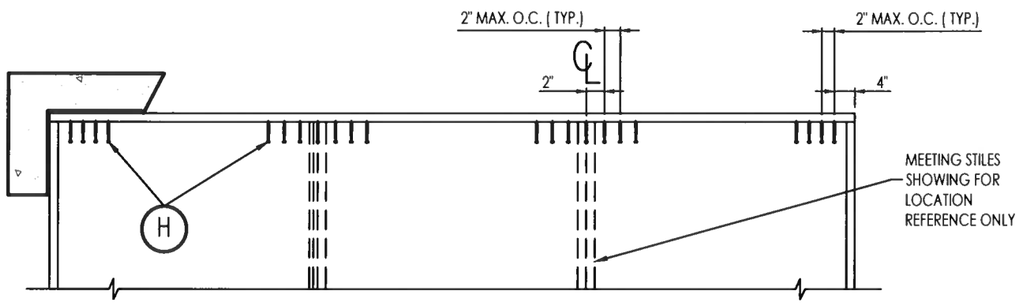
PART OR ASSEMBLY: ANCHORING CONCRETE SUBSTRATE

NO	DATE	DESCRIPTION	BY
REVISIONS			
5	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
4	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB
3	8/9/19	UPDATE TO 6TH ED. (2017) FBC	ECV
2	2/26/16	CHANGE INT. .060 SGP TO .060 PVB	CO
1	2/18/15	UPDATE TO 5TH ED. (2014) FBC	LFS

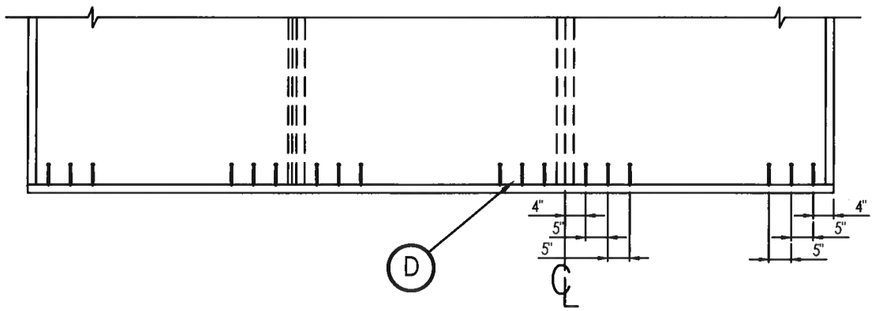
DATE: 02/26/16
SCALE: NTS
DWG. BY: CO
CHK BY: ECV
DRAWING NO.: FL-15903.14
SHEET: 8 OF 11



FRAME ANCHORING @ HEAD
Steel substrate
DP <= 135 PSF
Max. shim space <= .625

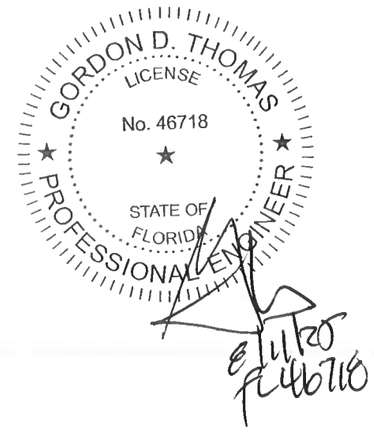


FRAME ANCHORING @ HEAD
Steel substrate
DP <= 80 PSF
Max. shim space <= .625



FRAME ANCHORING @ SILL
Concrete substrate
DP <= 135 PSF
Max. shim space <= .17

SUBSTRATE		ANCHOR SCHEDULE
CONCRETE	(D)	5/16" Ø HWH ITW Tapcon® XL concrete anchor with 1-3/4" min. embedment, 2-3/16" minimum edge distance and 3-3/4" minimum clearance to adjacent concrete anchors. Concrete is 3,000 PSI minimum conforming to ACI 301.
STEEL	(H)	1/4-20 HWH Hilti KWIK-FLEX® self drilling screws. Steel with 0.125" minimum wall thickness conforming to ASTM A500 Grade B, Fy=46,999 PSI & Fu=58,000 PSI or ASTM A653, Fy=33,000 PSI, Fu= 45,000 PSI. Minimum embedment of 3 threads through steel substrate, with 1" min. edge distance and 1" min. CL to CL spacing.



5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

SUN METALS

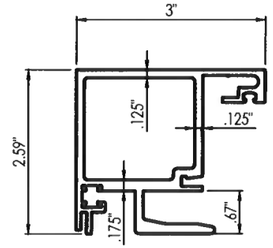
PRODUCT: SLIDING GLASS DOOR

PART OR ASSEMBLY: ANCHORING STEEL SUBSTRATE

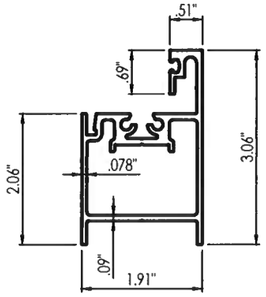
NO	DATE	DESCRIPTION	BY
5	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
4	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB
3	8/9/19	UPDATE TO 6TH ED. (2017) FBC	ECV
2	2/26/16	CHANGE INT. .060 SKP TO .060 PMB	CO
1	2/18/15	UPDATE TO 5TH ED. (2014) FBC	LFS

REVISIONS

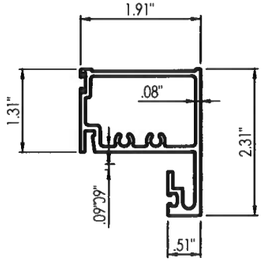
DATE: 02/26/16
SCALE: NTS
DWG. BY: CO
CHK BY: ECV
DRAWING NO.: FL-15903.14
SHEET: 9 OF 11



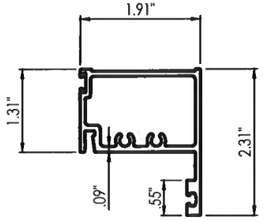
6 INTERLOCK STILE - FIXED PANEL
9/16" GLASS



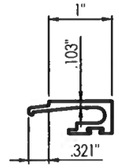
5 BOTTOM RAIL - MOVING PANEL
9/16" GLASS



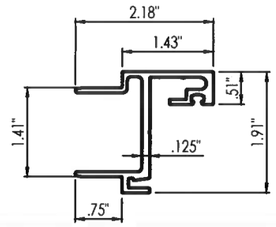
4 TOP RAIL
9/16" GLASS



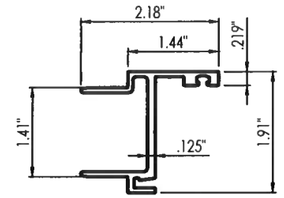
54 I.G. TOP RAIL
1- 5/16" GLASS



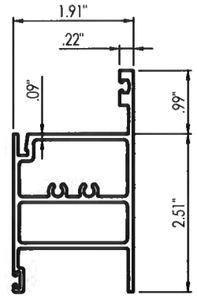
1 GLAZING BEAD
9/16" GLASS



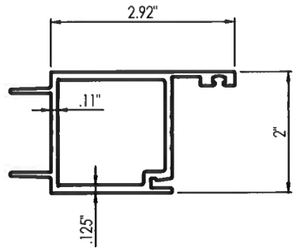
14 FIXED PANEL STILE
9/16" GLASS



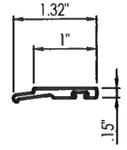
52 I.G. FIXED PANEL STILE
1- 5/16" GLASS



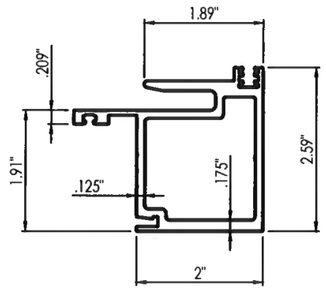
49 I.G. BOTTOM RAIL - FIXED PANEL
1- 5/16" GLASS



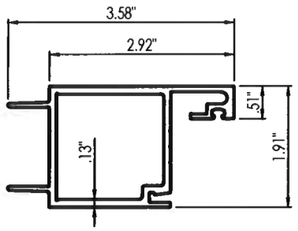
55 I.G. LEAD STILE
1- 5/16" GLASS



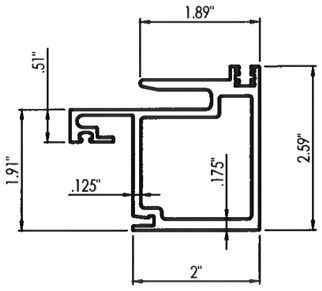
51 I.G. GLAZING BEAD
1- 5/16" GLASS



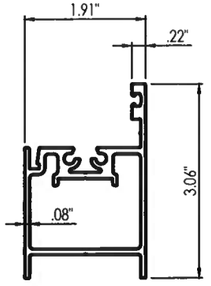
53 I.G. INTERLOCK STILE - MOVING PANEL
1-5/16" GLASS



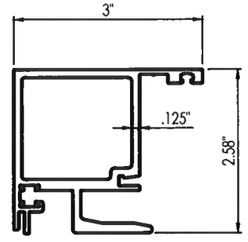
2 LEAD STILE
9/16" GLASS



3 INTERLOCK STILE - MOVING PANEL
9/16" GLASS



56 I.G. BOTTOM RAIL - MOVING PANEL
1-5/16" GLASS



57 I.G. INTERLOCK STILE - FIXED PANEL
1-5/16" GLASS

5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

SUN METALS

GORDON D. THOMAS
LICENSE
No. 46718
STATE OF FLORIDA
PROFESSIONAL ENGINEER

8/11/25
FL 46718

PRODUCT: SLIDING GLASS DOOR

PART OR ASSEMBLY: COMPONENTS

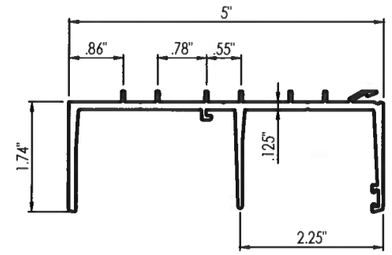
NO	DATE	DESCRIPTION	BY
5	7/14/25	UPDATE TO 8TH ED. (2023)	ECV
4	9/21/20	UPDATE TO 7TH ED. (2020)	JCB
3	8/9/19	UPDATE TO 6TH ED. (2017)	ECV
2	2/26/16	CHANGE INT. .060 SGP TO .060 PVB	CO
1	2/18/15	UPDATE TO 5TH ED. (2014)	LFS

REVISIONS

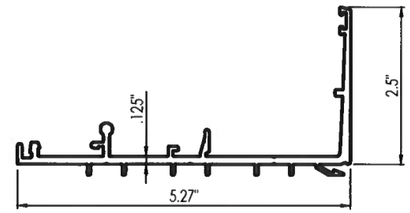
DATE: 02/26/16
SCALE: NTS
DWG. BY: CO
CHK BY: ECV
DRAWING NO.: FL-15903.14
SHEET: 10 OF 11

BILL OF MATERIALS

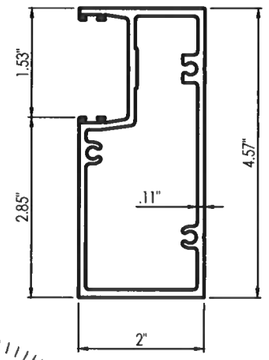
ITEM #	DESCRIPTION	MATERIAL
D	5/16" x 2-3/4" HWH ITW TAPCON XL CONCRETE ANCHOR	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301	CONCRETE
F	3/8" x 2-1/2" ITW DYNABOLT SLEEVE ANCHOR	STEEL
G	#10 x 1-1/2" SQ-PH ASSEMBLY SCREW	STL. STEEL
H	1/4-20 HWH HILTI KWIK-FLEX SELF DRILLING SCREW	STEEL
K	#10 x 3/4" HH SELT TAP SCREW	STL. STEEL
1	GLAZING BEAD 6063-T6 (9/16")	ALUM
2	LEAD STILE 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-T5 (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
11	OXO ADAPTOR 6005-T5	ALUM
13	OXO REINFORCEMENT 6005-T5	ALUM
14	FIXED PANEL STILE 6063-T6 (9/16")	ALUM
17	FRAME HEAD POCKET COVER 6063-T6	ALUM
18	FRAME SILL POCKET COVER 6063-T6	ALUM
25	WEATHERSEAL SEALANT (W5001) DOW 795	SILICONE
27	GLAZING SPACER	ALUM
28	GASKET, EPDM CLOSED CELL FOAM (9/16" GLAZING) (TREMCO)	EPDM
29	GASKET, EPDM CLOSED CELL FOAM (1-5/16" GLAZING) (TREMCO)	EPDM
30	WEDGE 70±5 EPDM (9/16" & 1-5/16" GLAZING) (TREMCO)	EPDM
31	BACKER ROD - CLOSED CEL EXTRUDED FOAM	POLYETHYLENE
34	SHIM	-
35	SETTING/ EDGE BLOCK	SILICONE
41	ROLLER ASSM.	STL. STEEL
42	REACTION CLIP 6005-T5	ALUM
43	TOE ANCHOR 6005-T5	ALUM
51	I.G. GLAZING BEAD 6063-T6 (1-5/16")	ALUM
52	I.G. FIXED PANEL STILE 6063-T6 (1-5/16")	ALUM
53	I.G. INTERLOCK STILE - MOVING PANEL 6063-T6 (1-5/16")	ALUM
54	I.G. TOP RAIL 6063-T6 (1-5/16")	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 (1-5/16")	ALUM
58	BOTTOM RAIL - FIXED PANEL 6063-T6 (9/16")	ALUM



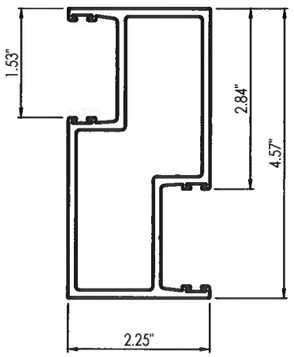
8 FRAME HEAD



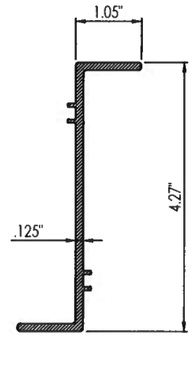
9 FRAME SILL



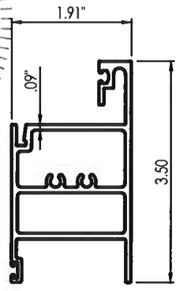
10 FRAME JAMB



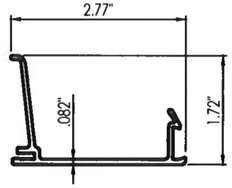
11 OXO ADAPTOR



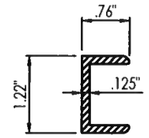
13 OXO REINFORCEMENT



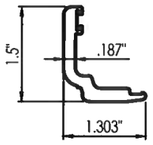
58 BOTTOM RAIL - FIXED PANEL
9/16" GLASS



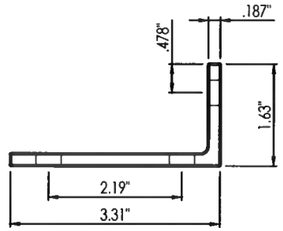
17 FRAME HEAD POCKET COVER



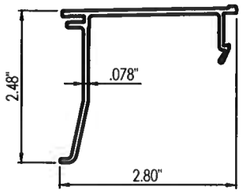
7 FIXED PANEL RETAINING CLIP



42 REACTION CLIP



43 TOE ANCHOR

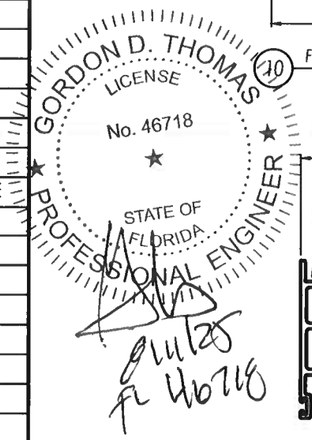


18 FRAME SILL POCKET COVER

30 WEDGE GASKET

28 PRE-SET GASKET

29 PRE-SET GASKET



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TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

SUN METALS

PRODUCT: SLIDING GLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO	DATE	DESCRIPTION	BY
5	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
4	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB
3	8/9/19	UPDATE TO 6TH ED. (2017) FBC	ECV
2	2/26/16	CHANGE INT. .060 SCP TO .060 PVB	CO
1	2/18/15	UPDATE TO 5TH ED. (2014) FBC	LFS

REVISIONS

DATE: 02/26/16

SCALE: NTS

DWG. BY: CO

CHK BY: ECV

DRAWING NO.: FL-15903.14

SHEET: 11 OF 11