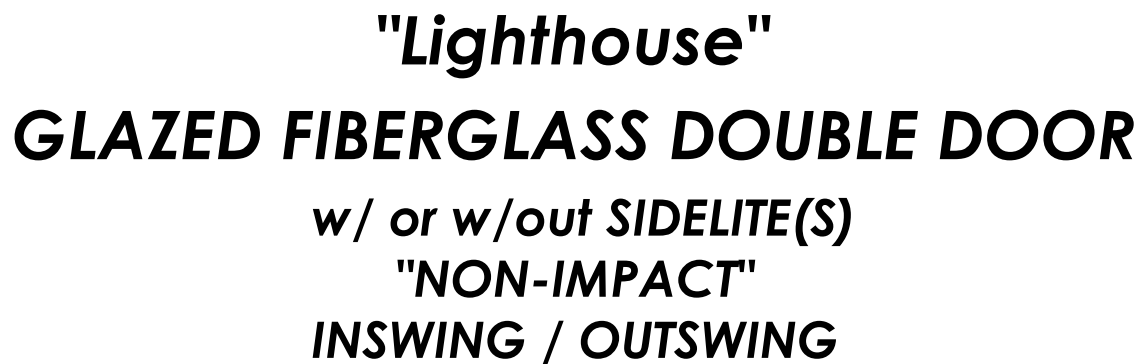
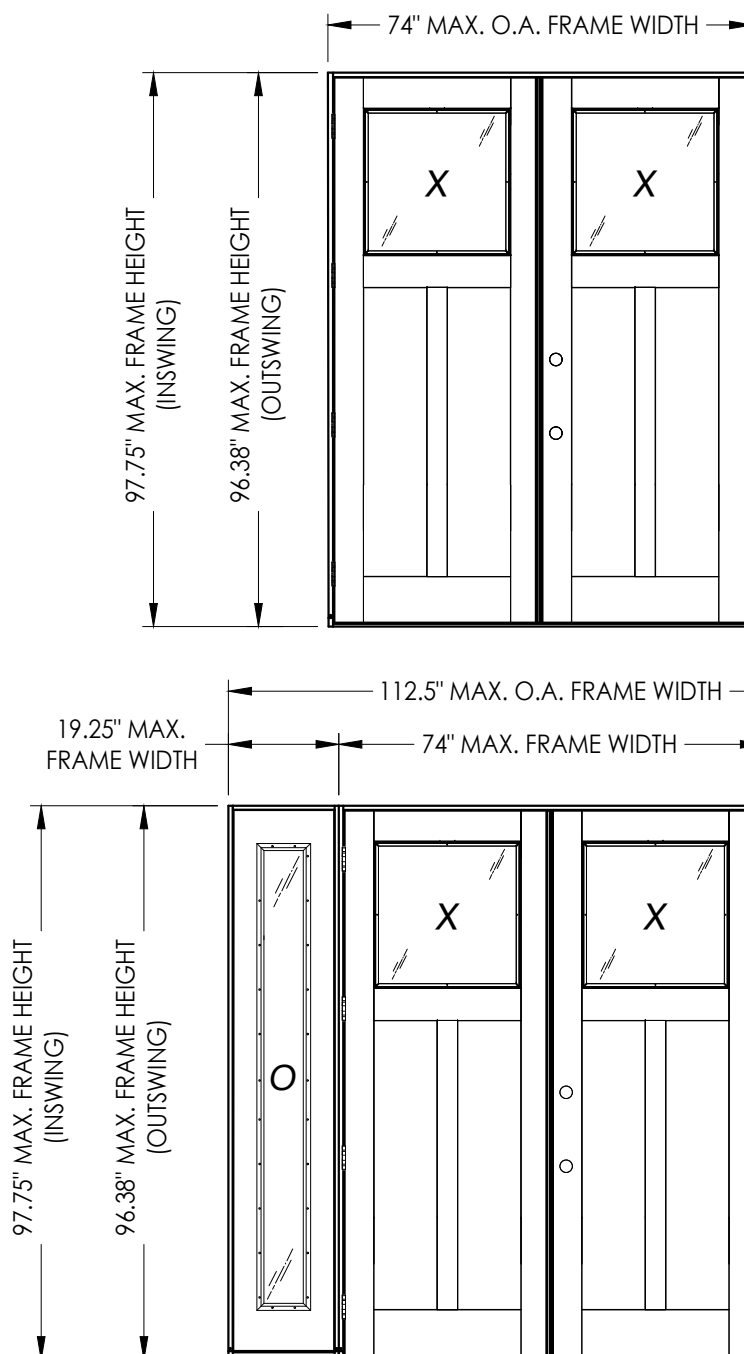


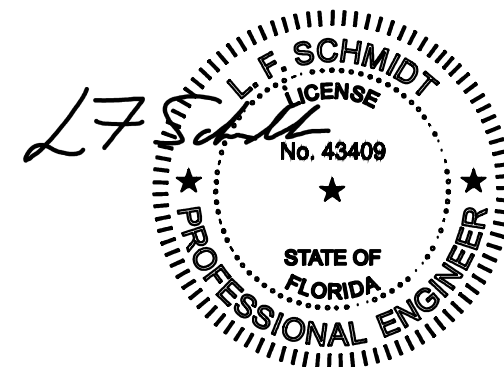


1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details (Lip Lite Frame)
4	Sidelite panel details (Flush Glazing Frame)
5	Elevations
6	Horizontal and vertical cross sections (2x buck)
7	Horizontal and vertical cross sections (1x buck)
8	Horizontal and vertical cross sections (Direct to Masonry)
9	Horizontal cross sections
10	Vertical cross sections
11	Buck anchoring
12	Frame anchoring
13	Components
14	Bill of materials



CONFIGURATION	FRAME MATERIAL	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX, OXXO	FJ PINE	+45.0	-45.0	+40.0	-40.0
XX, OXXO	COMPOSITE	+45.0	-45.0	+45.0	-45.0



This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

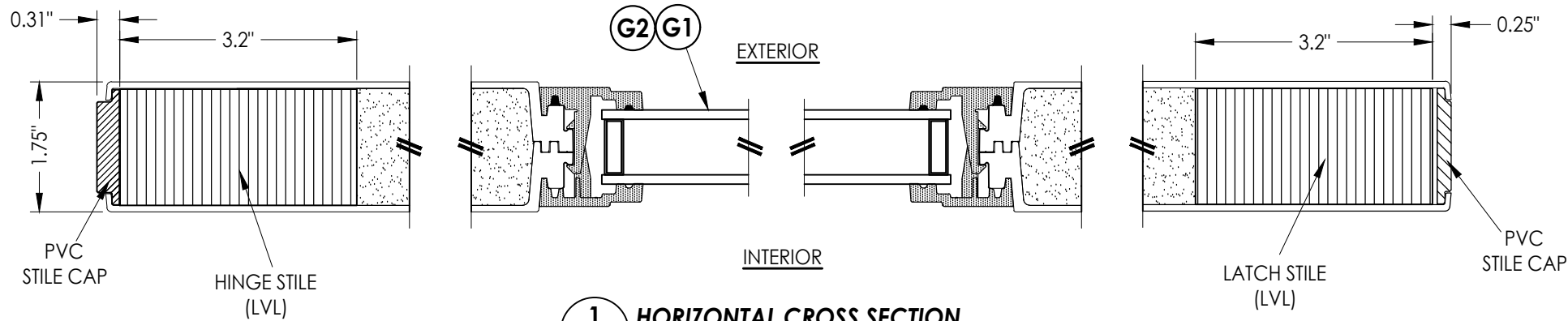
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

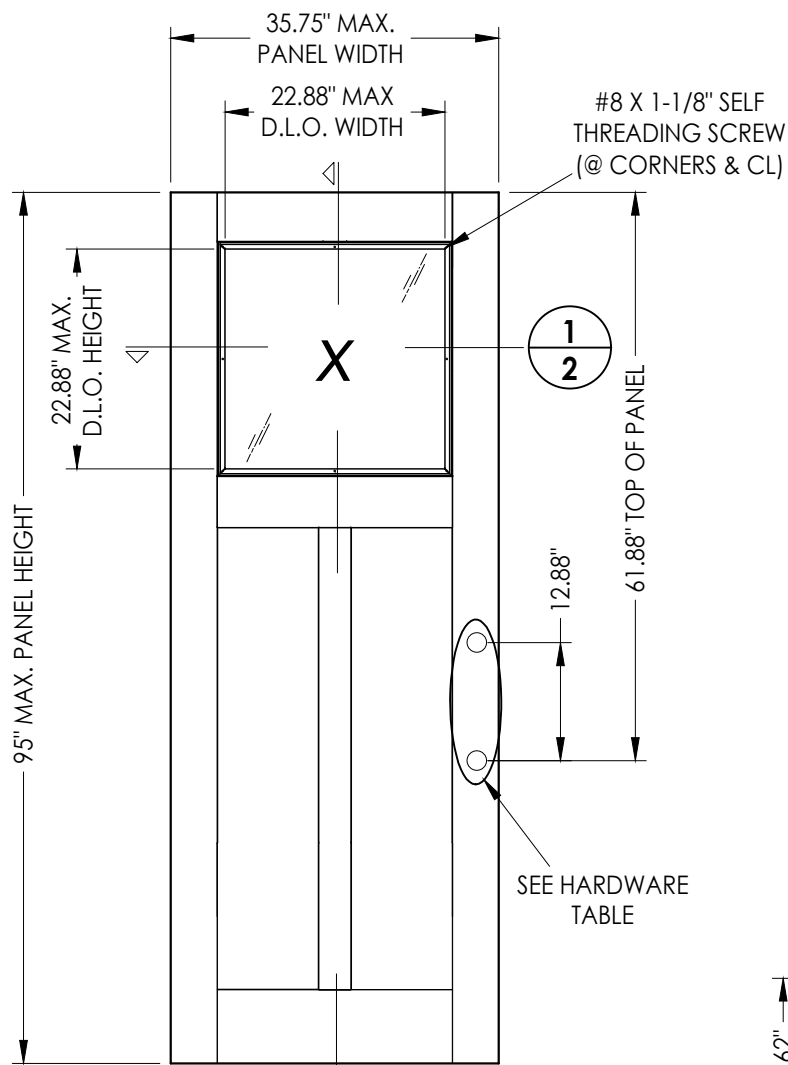
R²W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 1/28/20		PRODUCT: TRINITY GLASS INT'L	
SCALE: N.T.S.		PART OR ASSEMBLY:	
DWG. BY: TRJ		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
CHK. BY: LFS			
DRAWING NO.: FL-25575.5			
SHEET 1 OF 14			

Z:\2023 FBC Drawings\Trinity Glass Int'l\FL-25575 R5\FL-25575.5-6.dwg

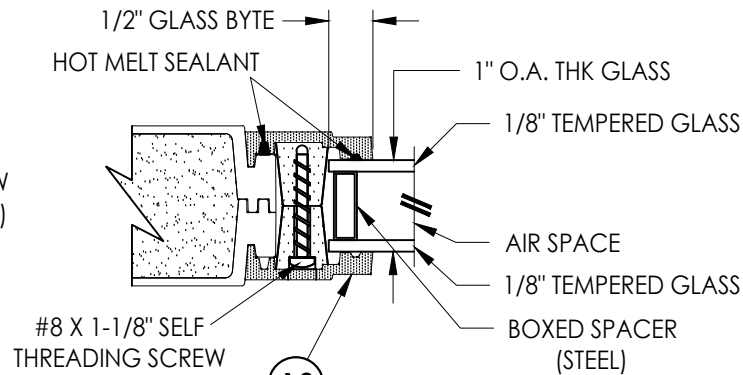


1
2 **HORIZONTAL CROSS SECTION**

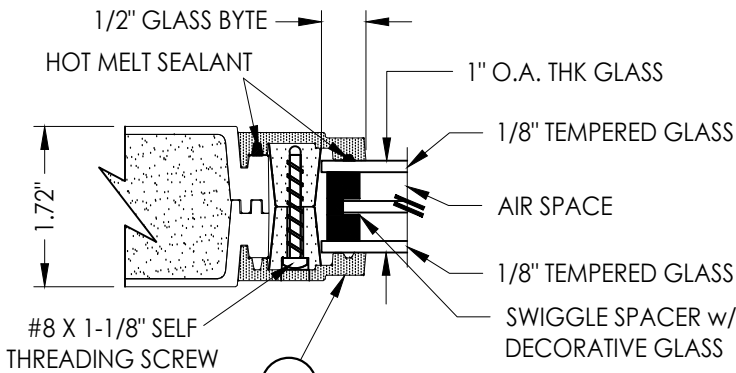


2
2 **GLAZED DOOR PANEL**
LIGHHOUSE

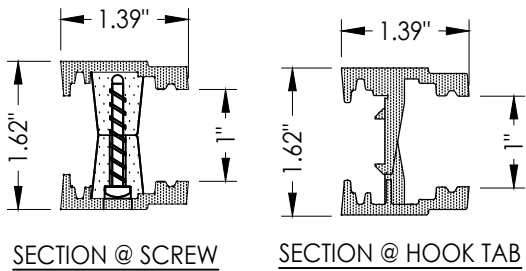
DOOR SKIN: 0.079" MIN. THK. FIBERGLASS
CORE MATERIAL: POLYURETHANE FOAM



G1 **GLAZING DETAIL**

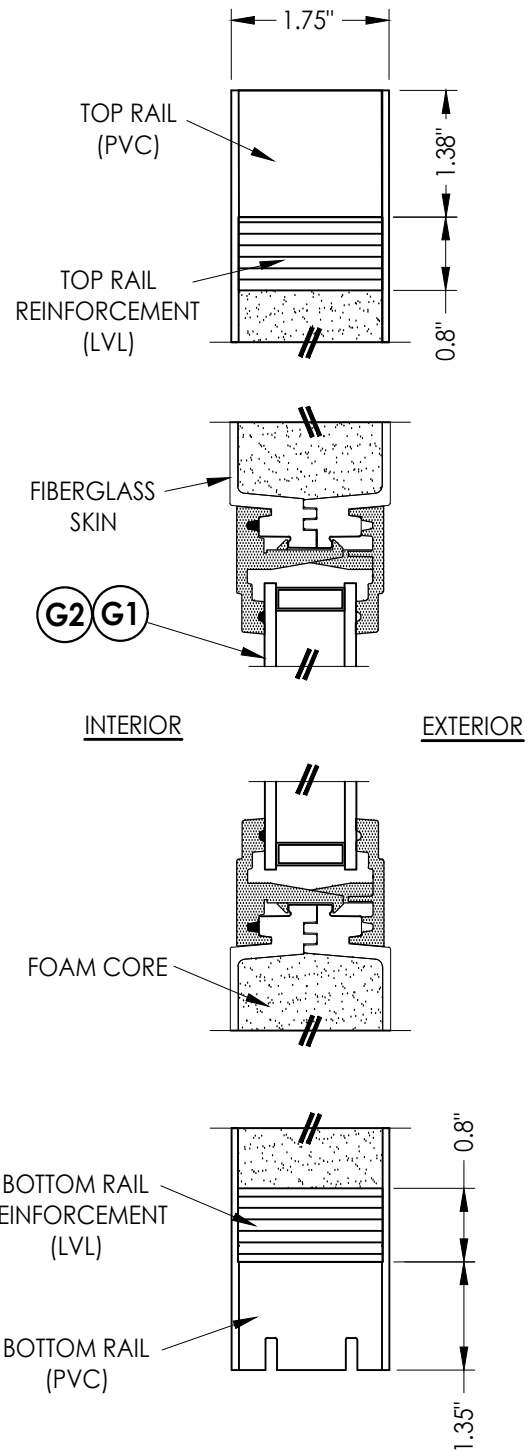


G2 **GLAZING DETAIL**
DECORATIVE GLASS



A2 **FLUSH GLAZING FRAME**
FIBERGLASS

HARDWARE CHART		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	KNOB:	F SERIES
	DEADBOLT:	B60 SERIES



2
2 **VERTICAL CROSS SECTION**

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS	
		BY	
2	8/01/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	8/11/20	UPDATE TO 7TH ED. (2020)	FBC DAC
		& REVISE ENDURA ULT. ASTRAGAL	

DATE: 1/28/20

SCALE: N.T.S.

DWG. BY: TRJ

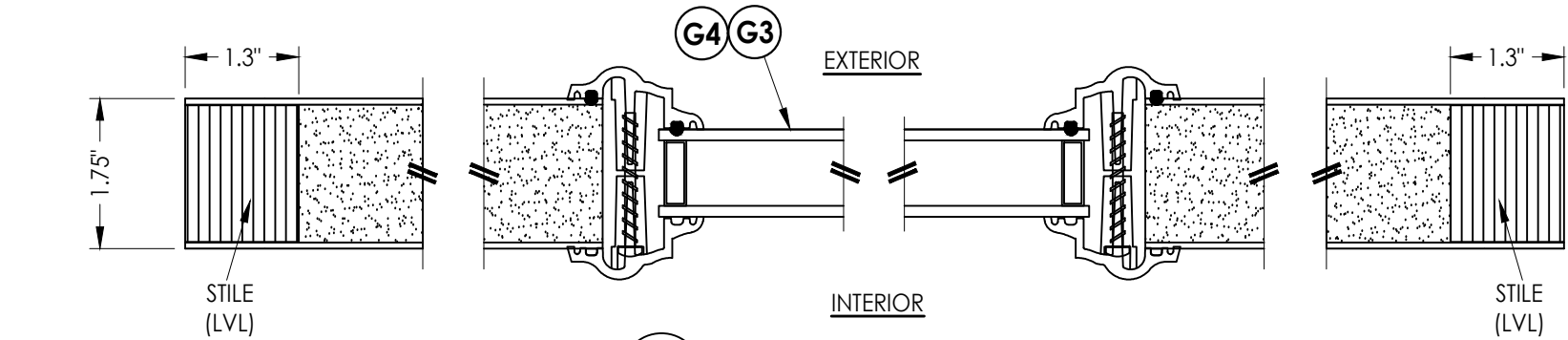
CHK. BY: LFS

DRAWING NO.:

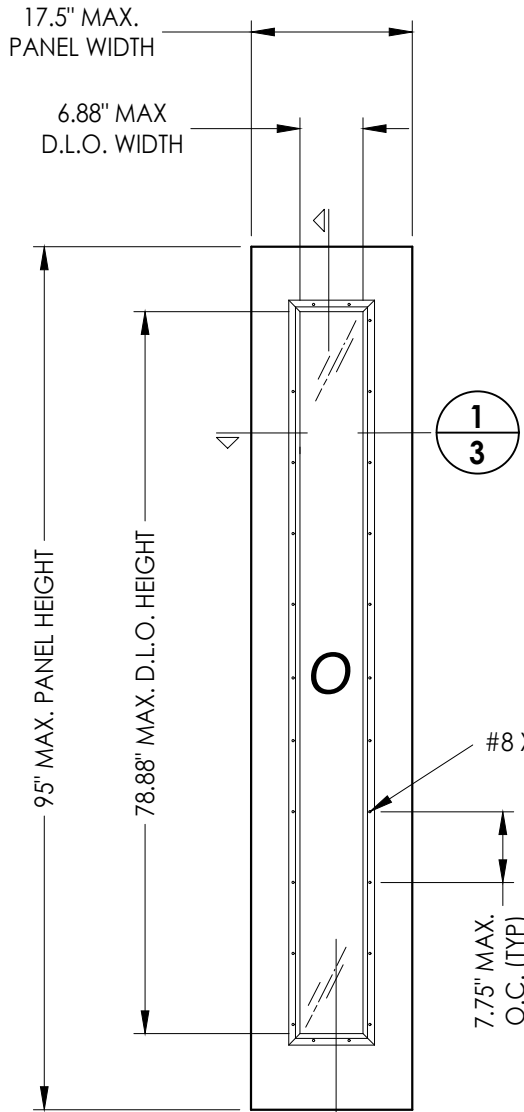
FL-25575.5

SHEET 2 OF 14

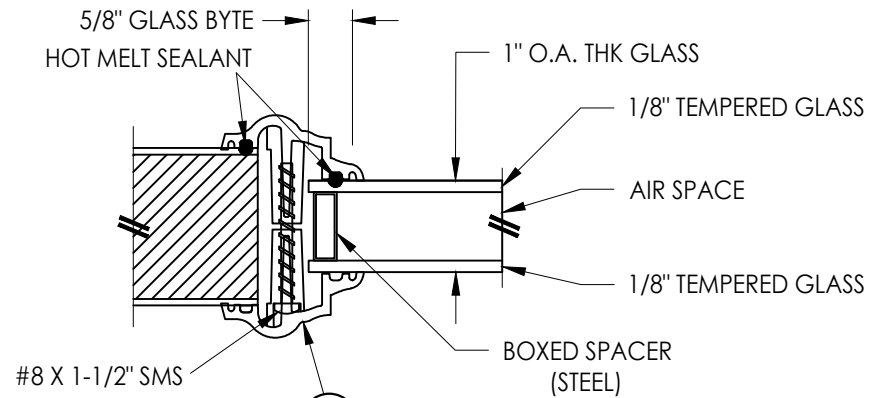
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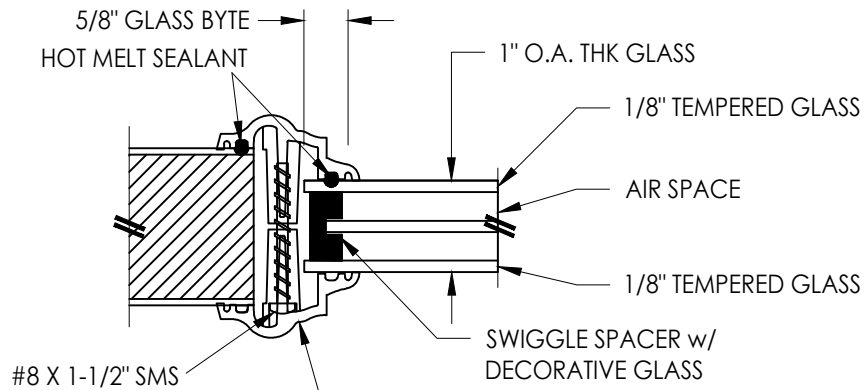
1
3 HORIZONTAL CROSS SECTION



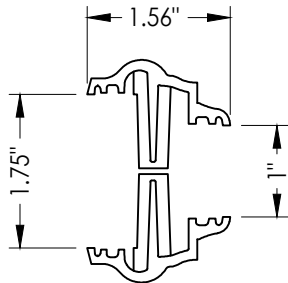
2
3 50 SIDELITE PANEL LIGHTHOUSE



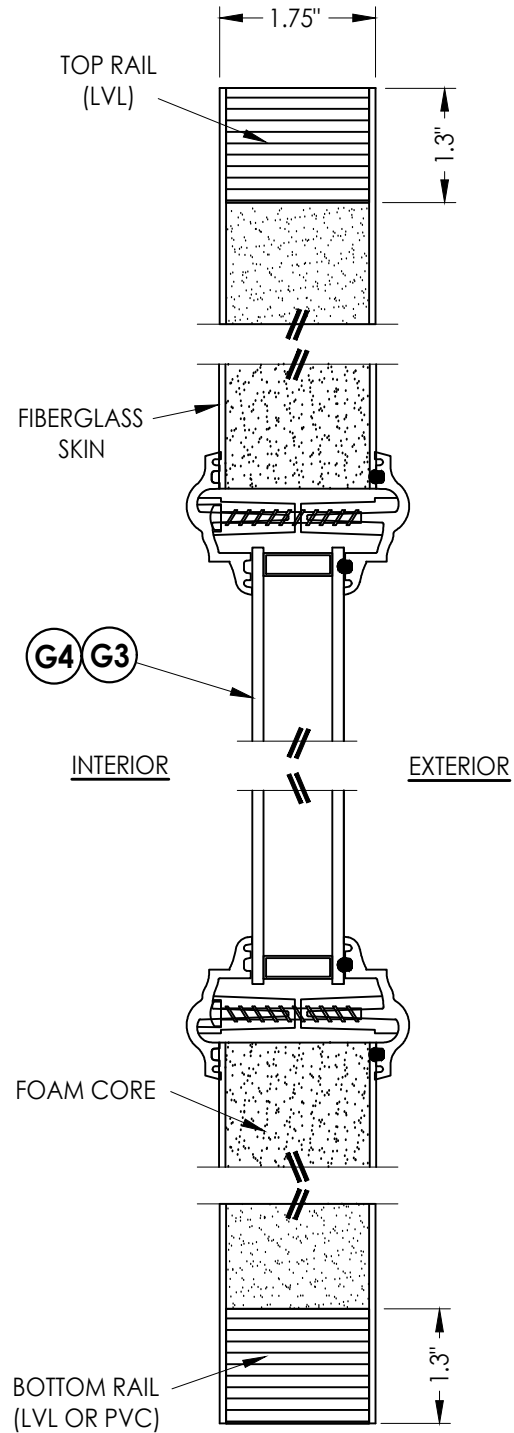
G3 GLAZING DETAIL



G4 GLAZING DETAIL DECORATIVE GLASS



A3 FRAME HP POLYPROPYLENE



2
3 VERTICAL CROSS SECTION

DOOR SKIN: 0.079" MIN. THK. FIBERGLASS
CORE MATERIAL: POLYURETHANE FOAM

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS
(LIP LITE FRAME)

NO.	DATE	REVISIONS
2	8/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
		& REVISE ENDURA ULT. ASTRAGAL

DATE: 1/28/20

SCALE: N.T.S.

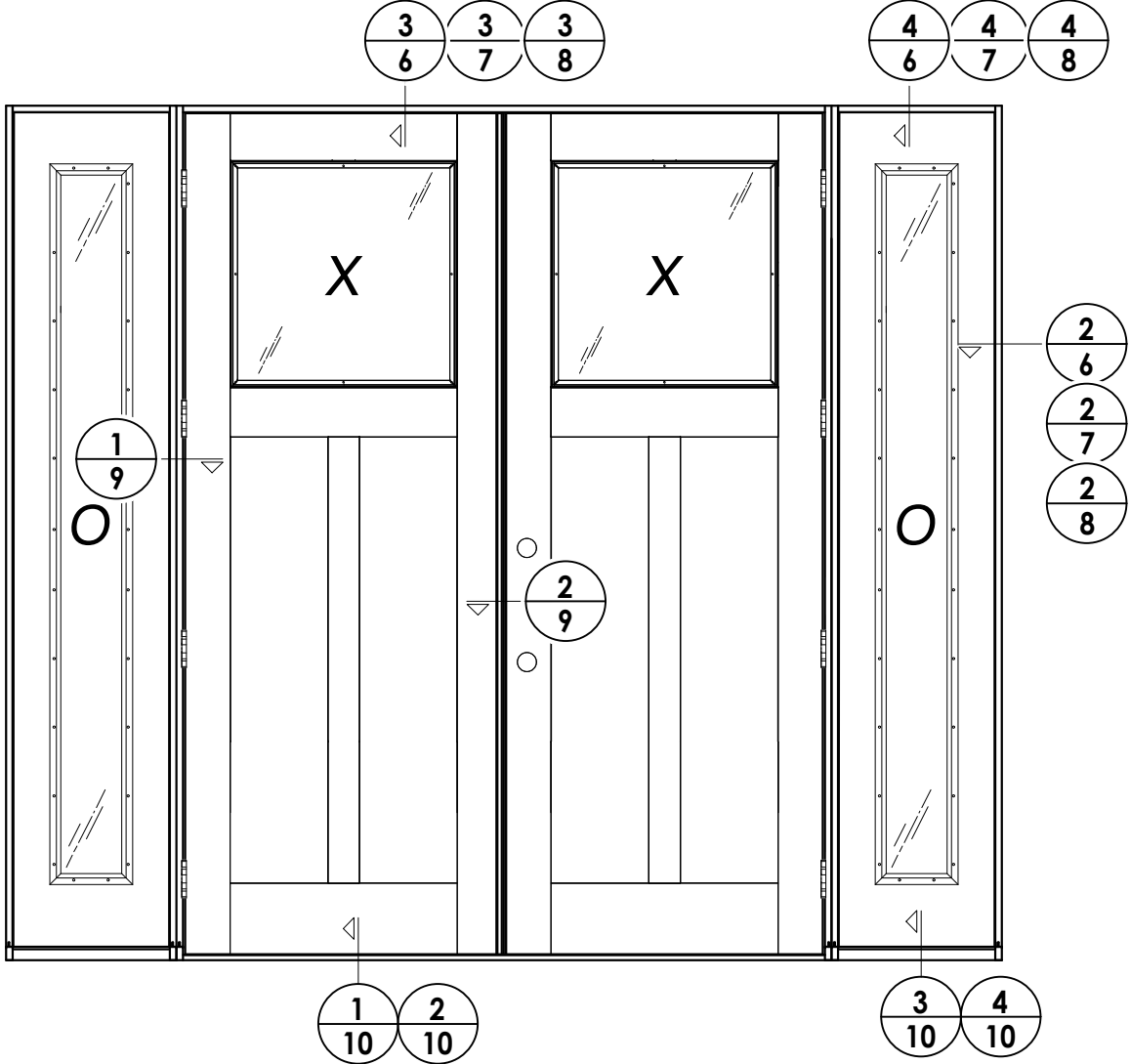
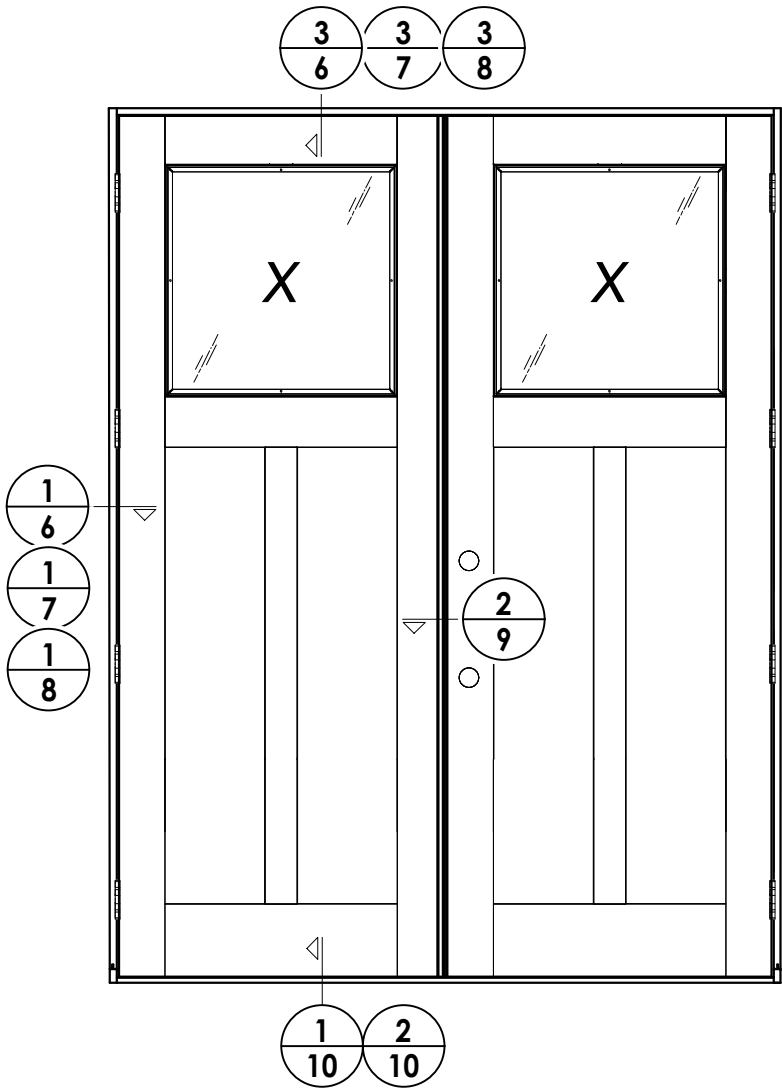
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CHK. BY: LFS

DRAWING NO.:

FL-25575.5

SHEET 3 OF 14



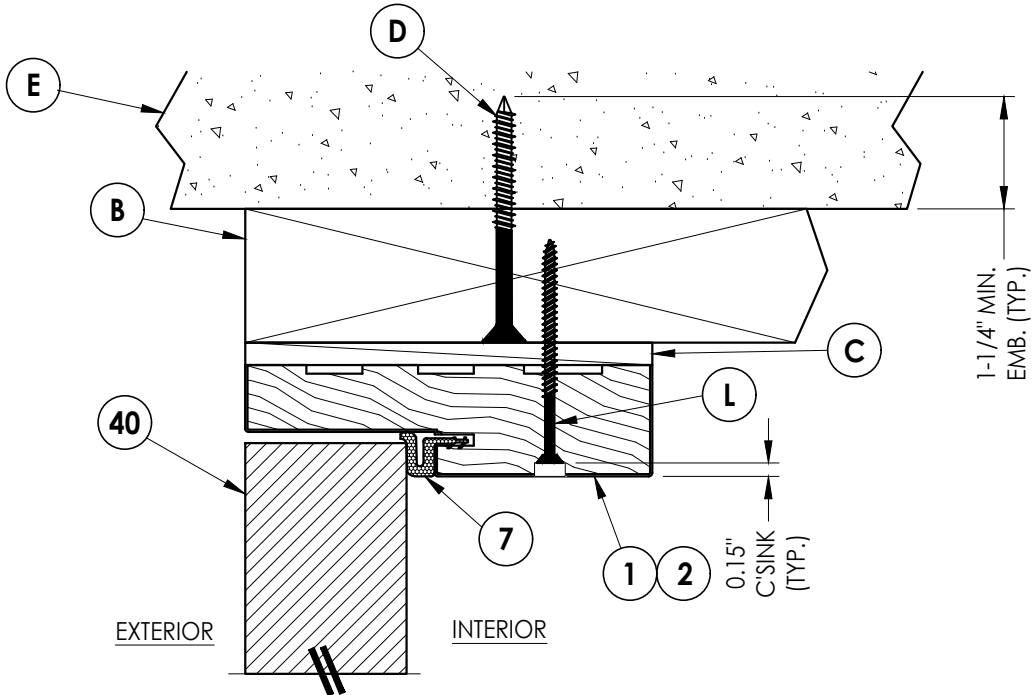
DATE: 1/28/20
SCALE: N.T.S.
DWG. BY: TRJ
CHK. BY: LFS
DRAWING NO.: FL-25575.5
SHEET 5 OF 14

NO.	DATE	REVISIONS
2	8/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
		& REVISE ENDURA ULT. ASTRAGAL

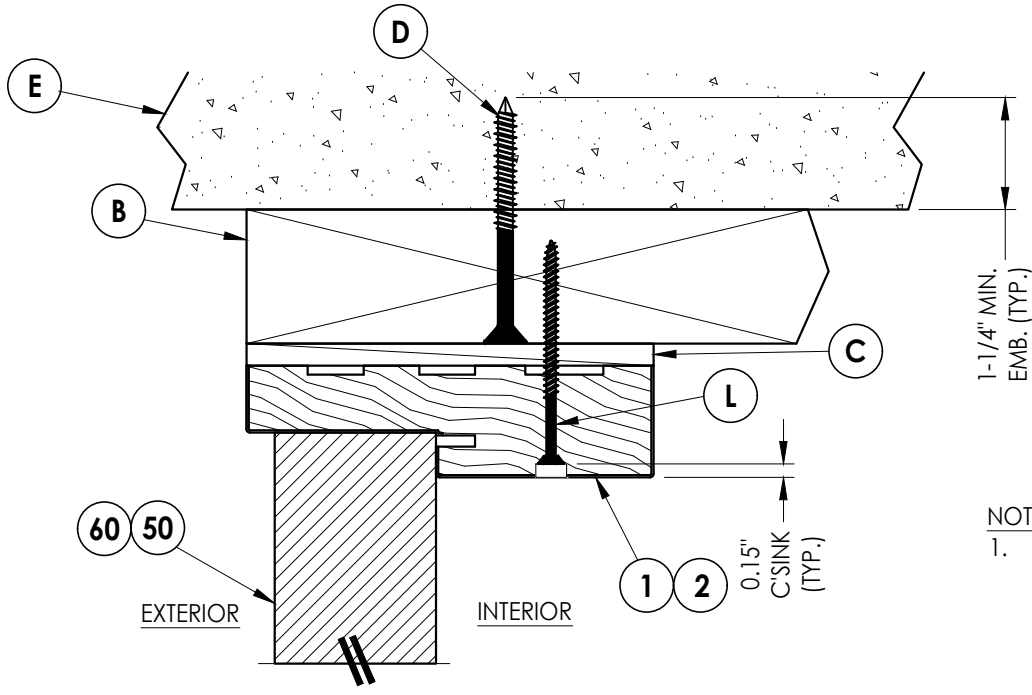
PRODUCT: TRINITY GLASS INT'L
PART OR ASSEMBLY: ELEVATIONS

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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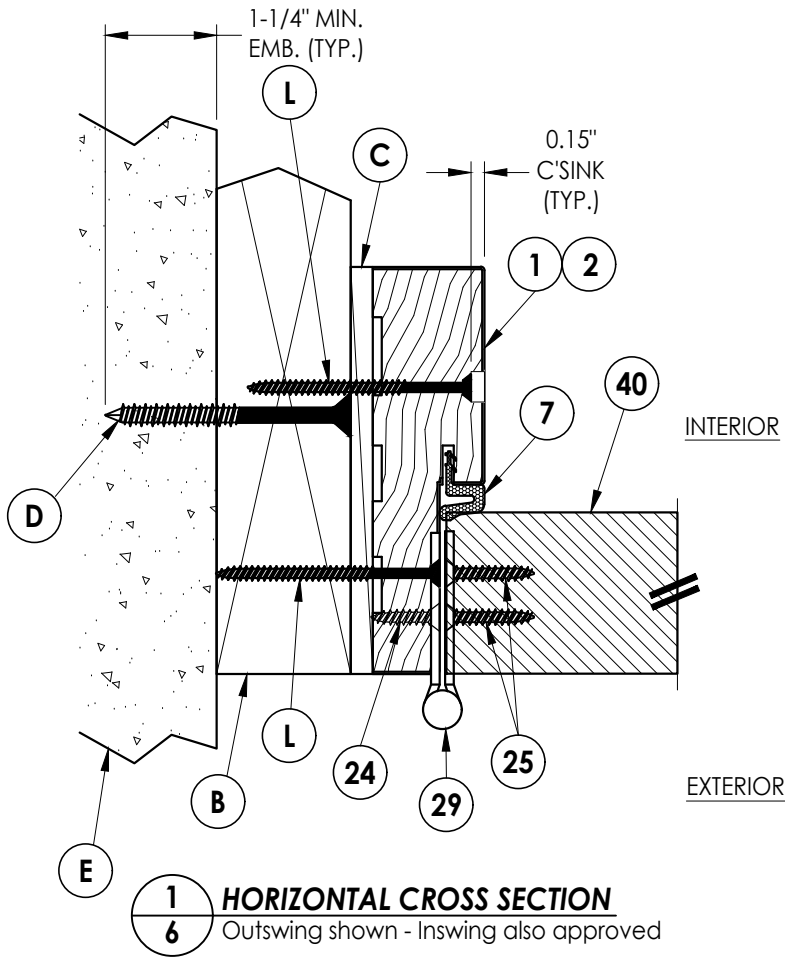


3
6 **VERTICAL CROSS SECTION**
Outswing shown - Inswing also approved

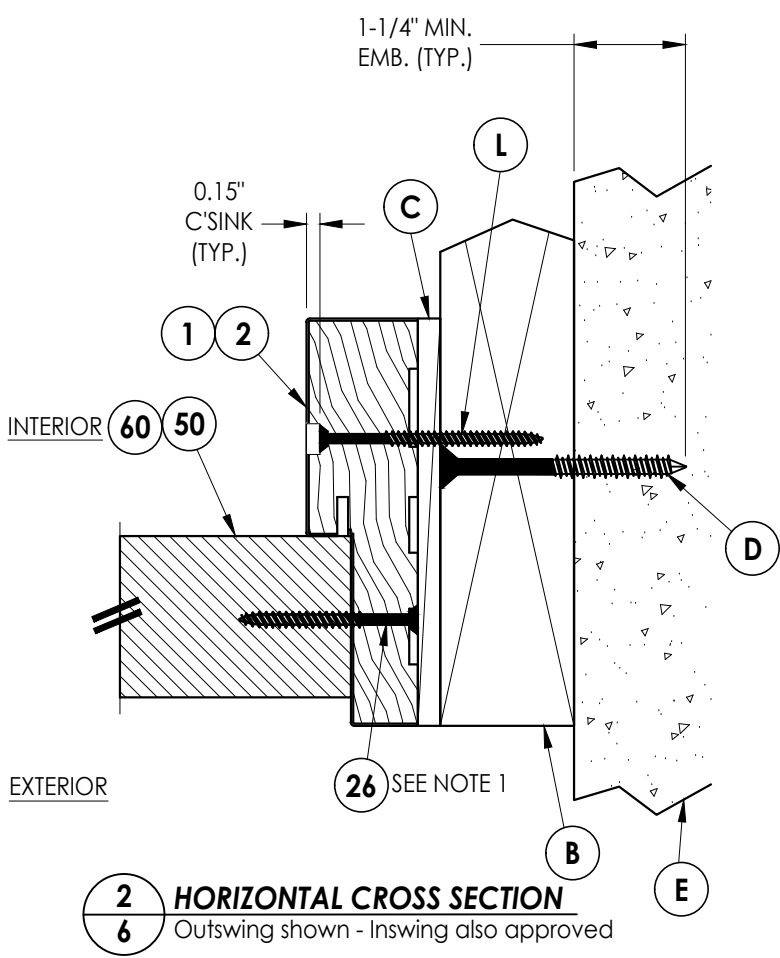


4
6 **VERTICAL CROSS SECTION**
Outswing shown - Inswing also approved

NOTE:
1. Item #26 located 6" from each end plus 2 more equally spaced (4 total).



1
6 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved



2
6 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY GLASS INT'L

NO.	DATE	REVISIONS
2	8/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
		& REVISE ENDURA ULT. ASTRAGAL
		BY

DATE: 1/28/20

SCALE: N.T.S.

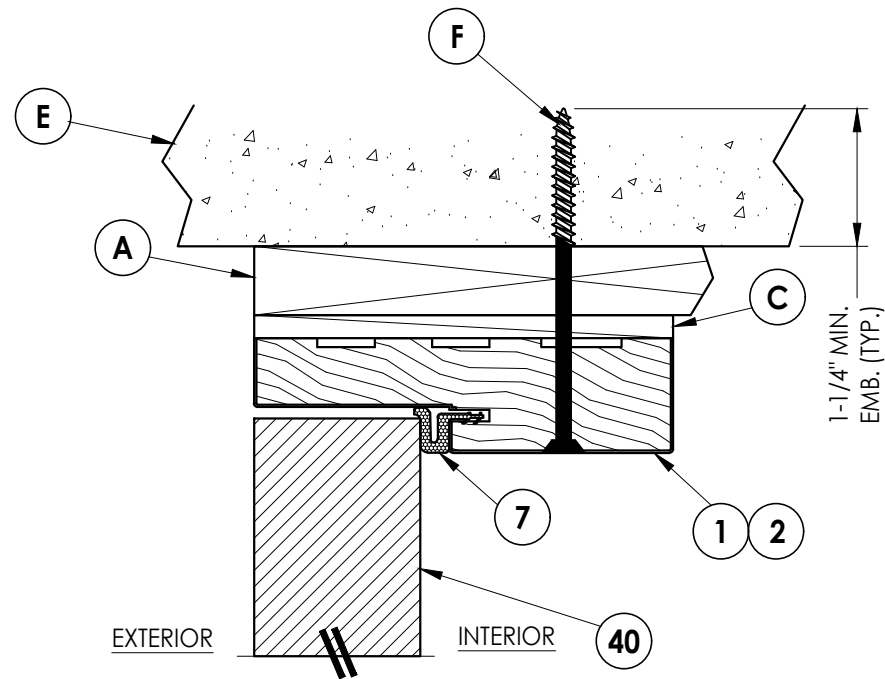
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CHK. BY: LFS

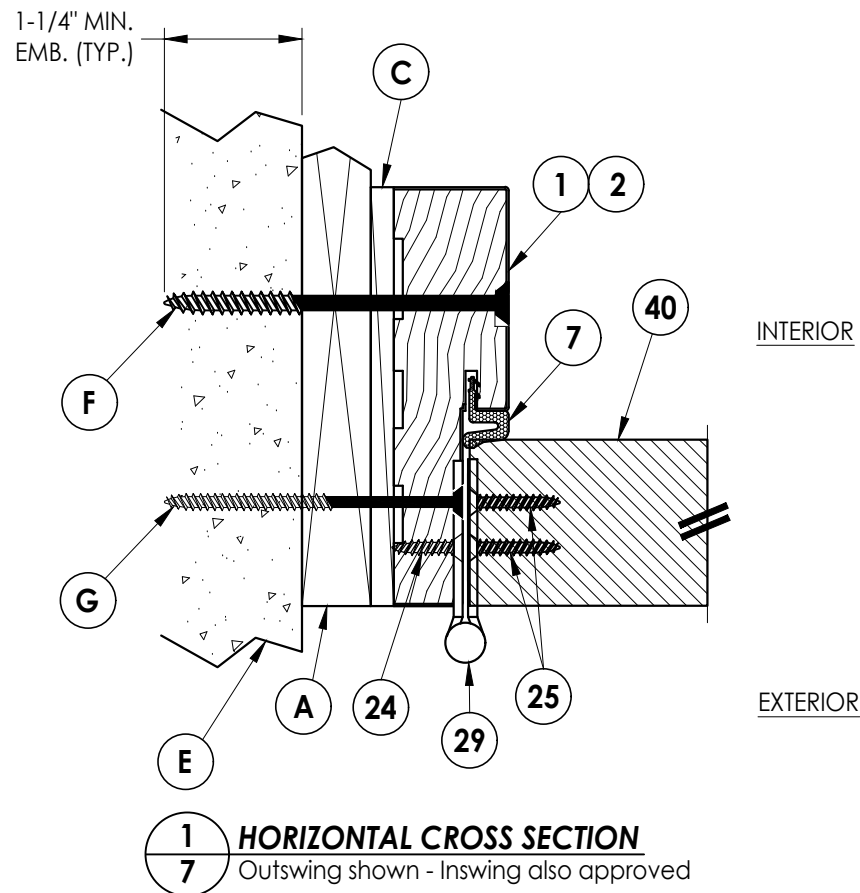
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FL-25575.5

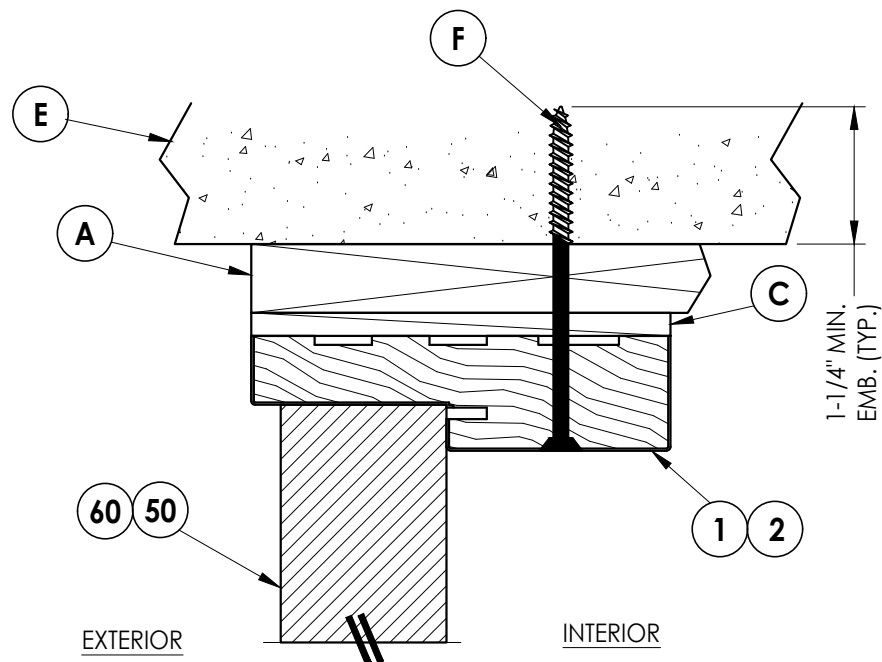
SHEET 6 OF 14



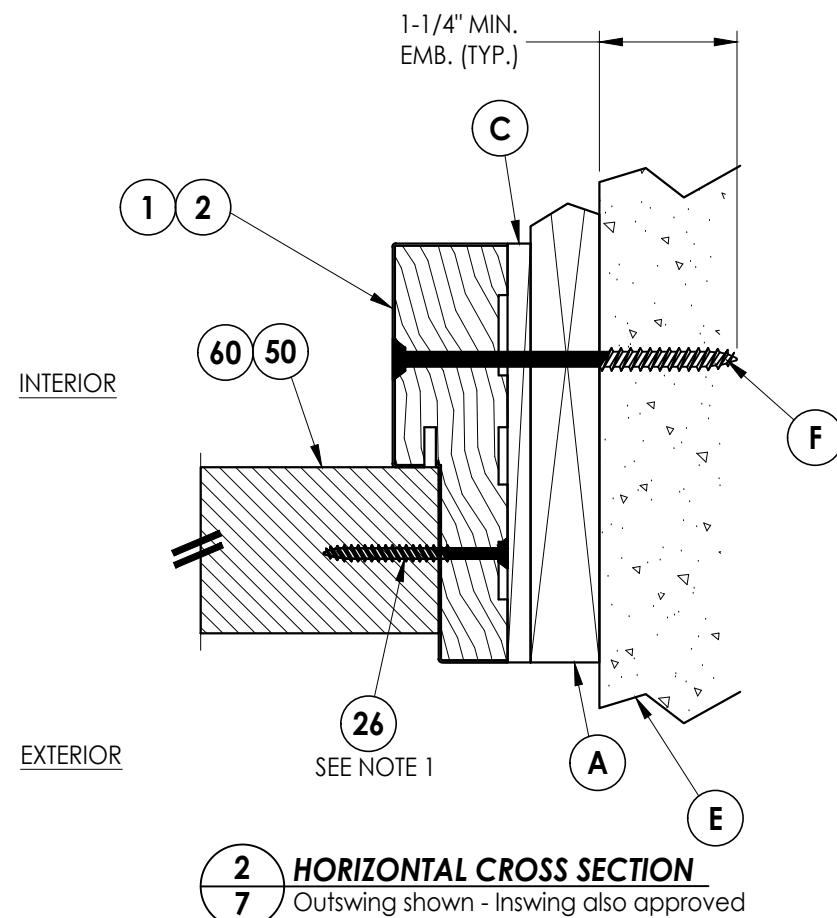
3 **VERTICAL CROSS SECTION**
7 Outswing shown - Inswing also approved



1 **HORIZONTAL CROSS SECTION**
7 Outswing shown - Inswing also approved



4 **VERTICAL CROSS SECTION**
7 Outswing shown - Inswing also approved



2 **HORIZONTAL CROSS SECTION**
7 Outswing shown - Inswing also approved

NOTE:

1. Item #26 located 6" from each end plus 2 more equally spaced (4 total).

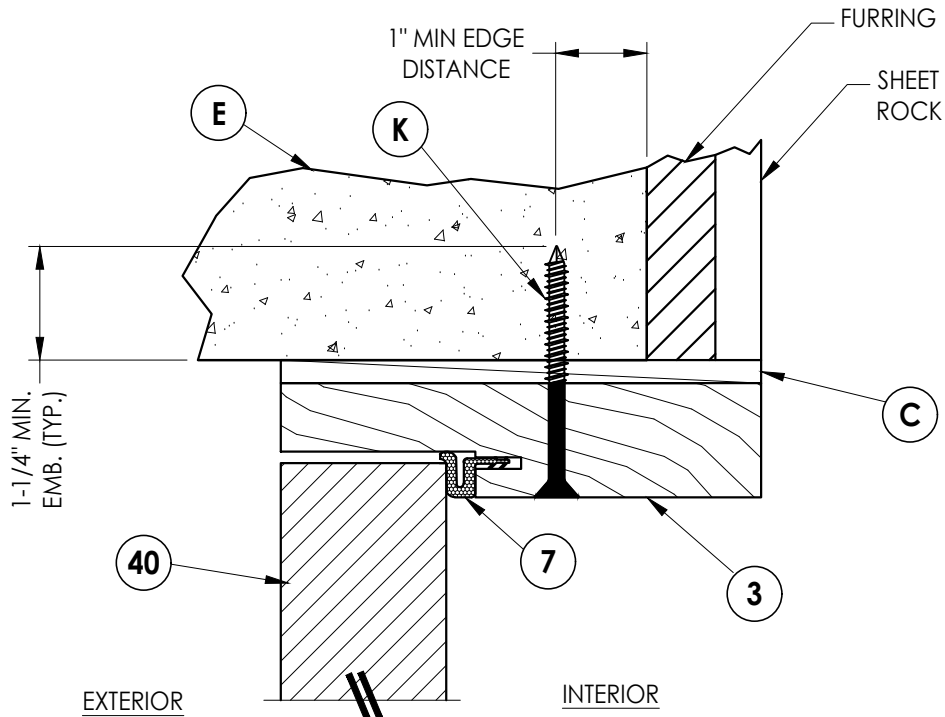
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PRODUCT:	TRINITY GLASS INT'L
PART OR ASSEMBLY:	HORIZONTAL AND VERTICAL CROSS SECTIONS (1X BUCK)

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

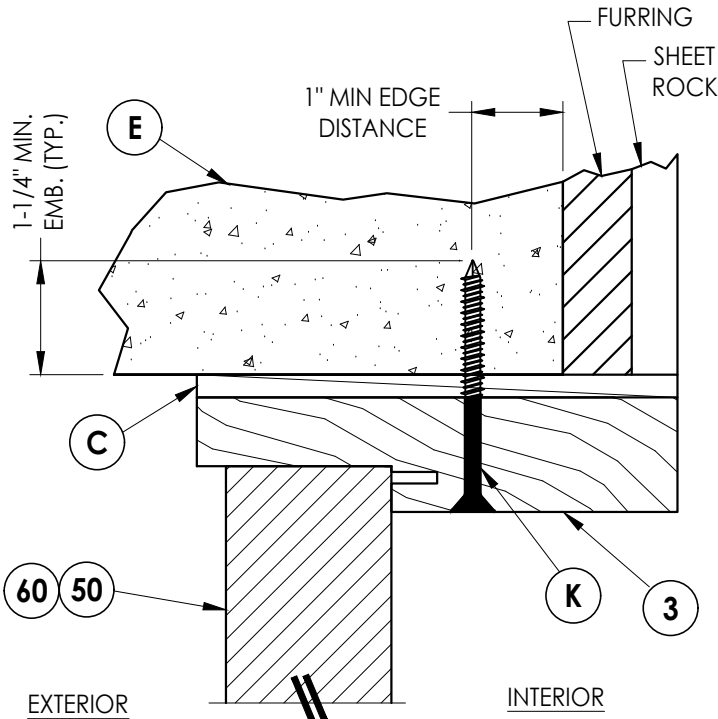
R^W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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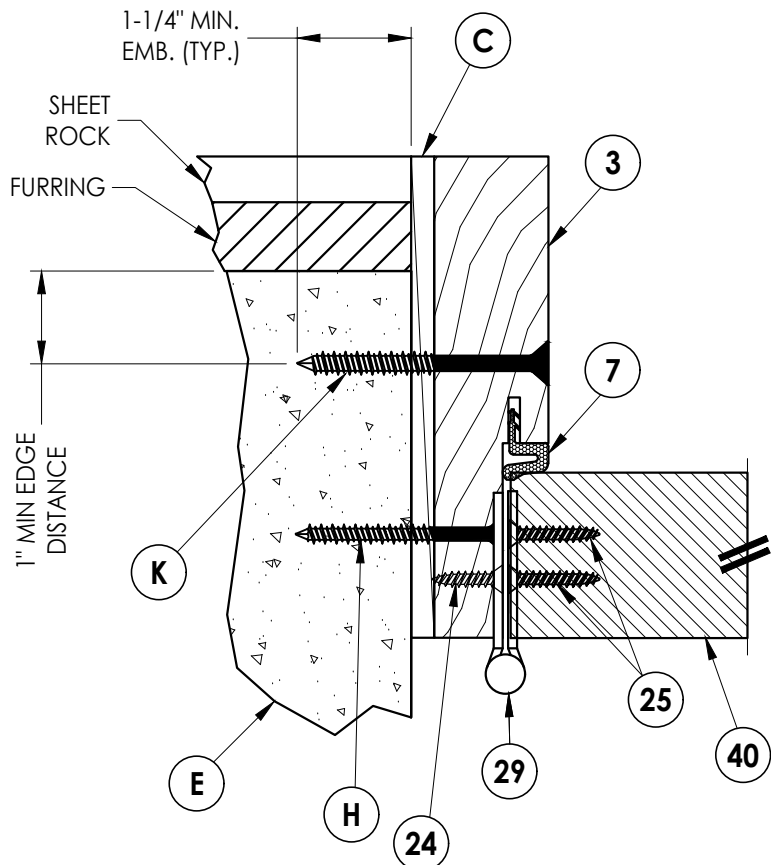


3
8 **VERTICAL CROSS SECTION**
Outswing only

NOTE:
1. Item #26 located 6" from each end plus 2 more equally spaced (4 total).



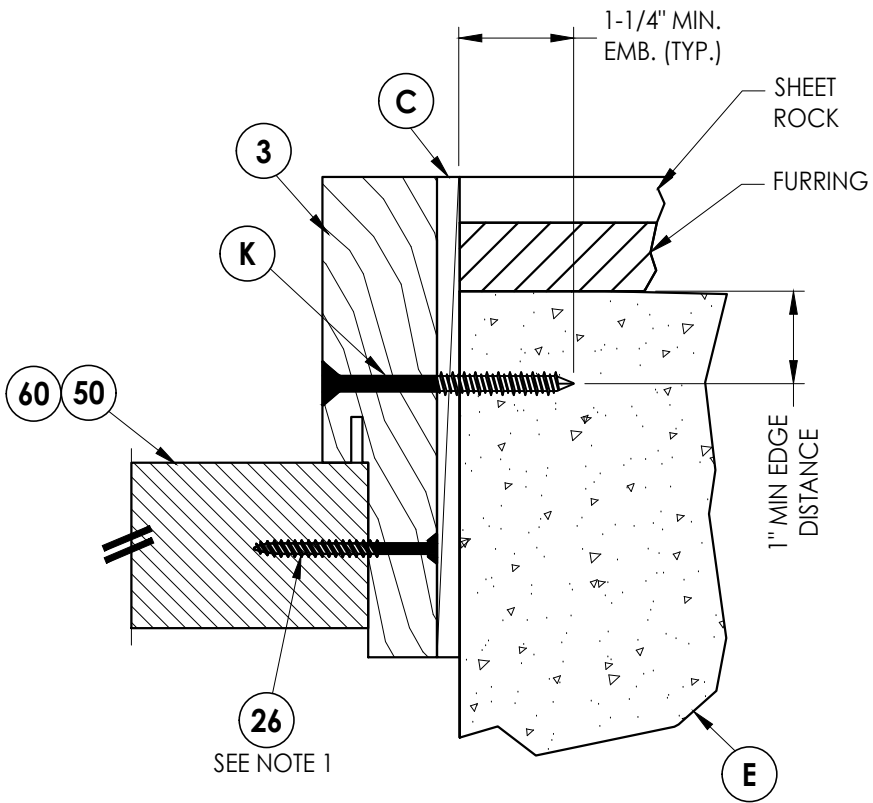
4
8 **VERTICAL CROSS SECTION**
Outswing only



1
8 **HORIZONTAL CROSS SECTION**
Outswing only

INTERIOR

EXTERIOR



2
8 **HORIZONTAL CROSS SECTION**
Outswing only

SEE NOTE 1

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Lyndon F. Schmidt
P.E. No. 43409

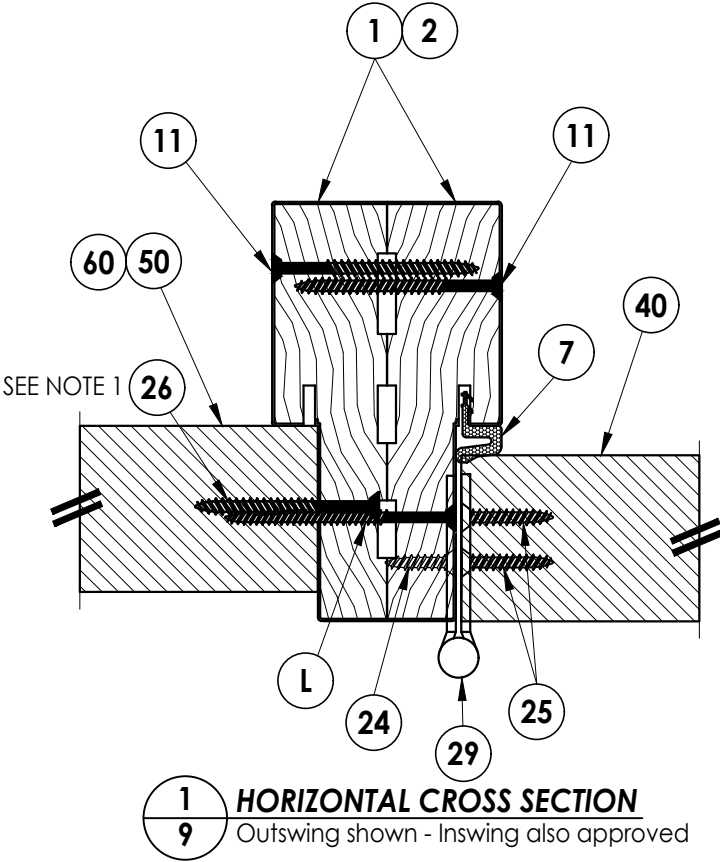
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY:
HORIZONTAL AND VERTICAL CROSS
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	BY	REVISIONS
2	8/01/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	8/11/20	UPDATE TO 7th ED. (2020)	FBC DAC
		& REVISE ENDURA ULT. ASTRAGAL	

DATE:	1/28/20
SCALE:	N.T.S.
DWG. BY:	TRJ
CHK. BY:	LFS
DRAWING NO.:	FL-25575.5
SHEET	8 OF 14

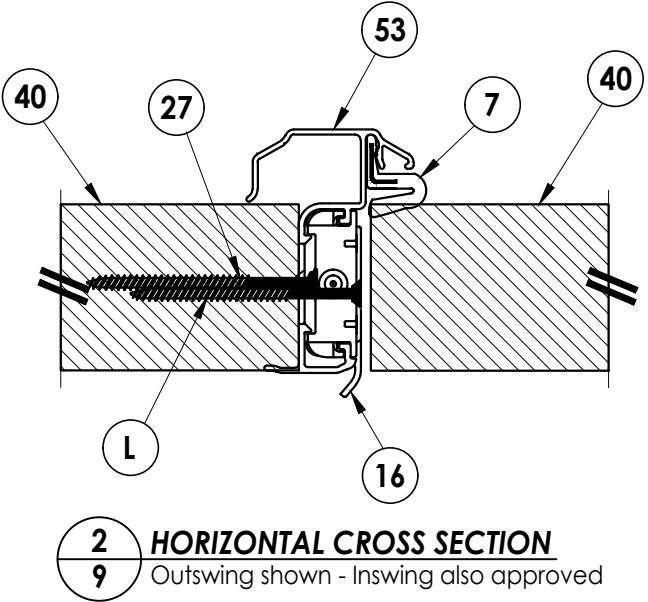


INTERIOR

EXTERIOR

NOTE:

1. Item #26 located 6" from each end plus 2 more equally spaced (4 total).



DATE:	1/28/20
SCALE:	N.T.S.
DWG. BY:	TRJ
CHK. BY:	LFS
DRAWING NO.:	FL-25575.5
SHEET	9 OF 14

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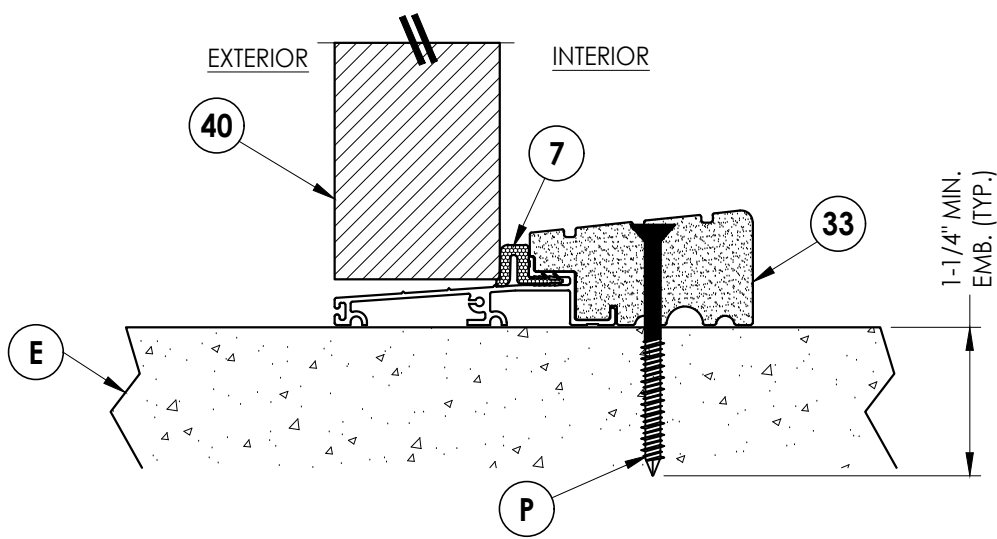
PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

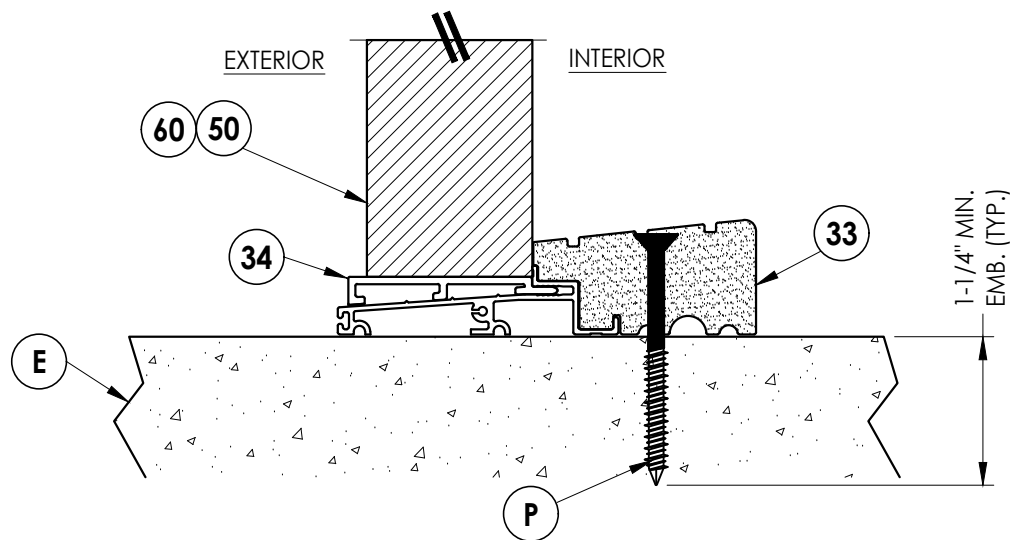
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197

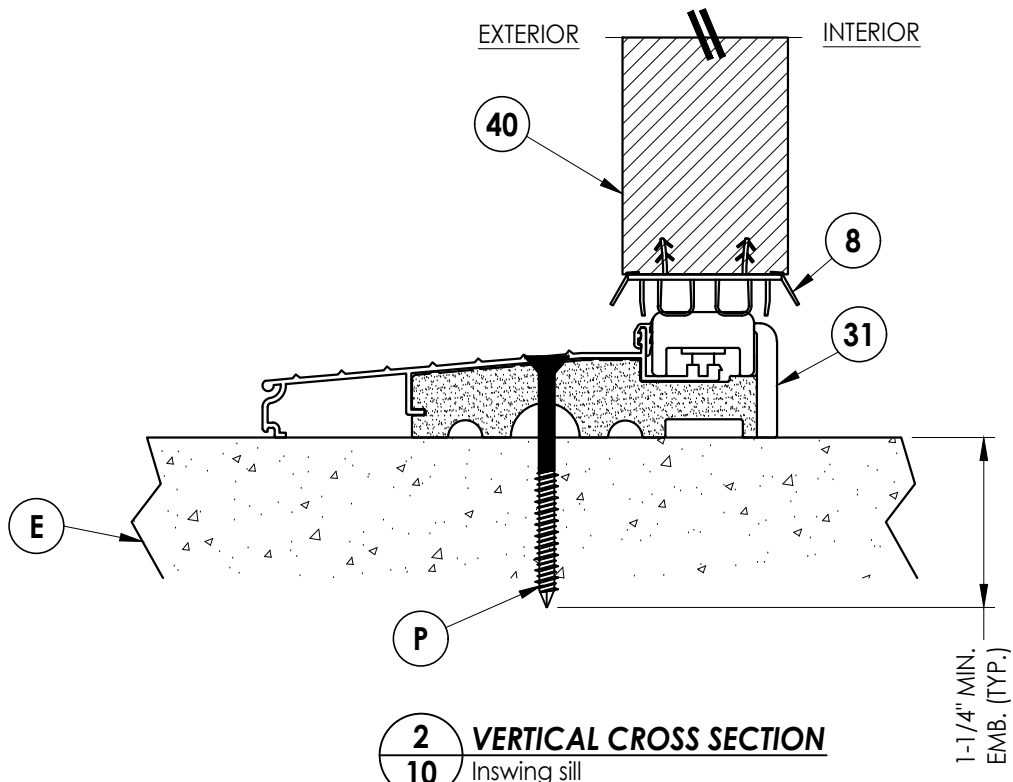
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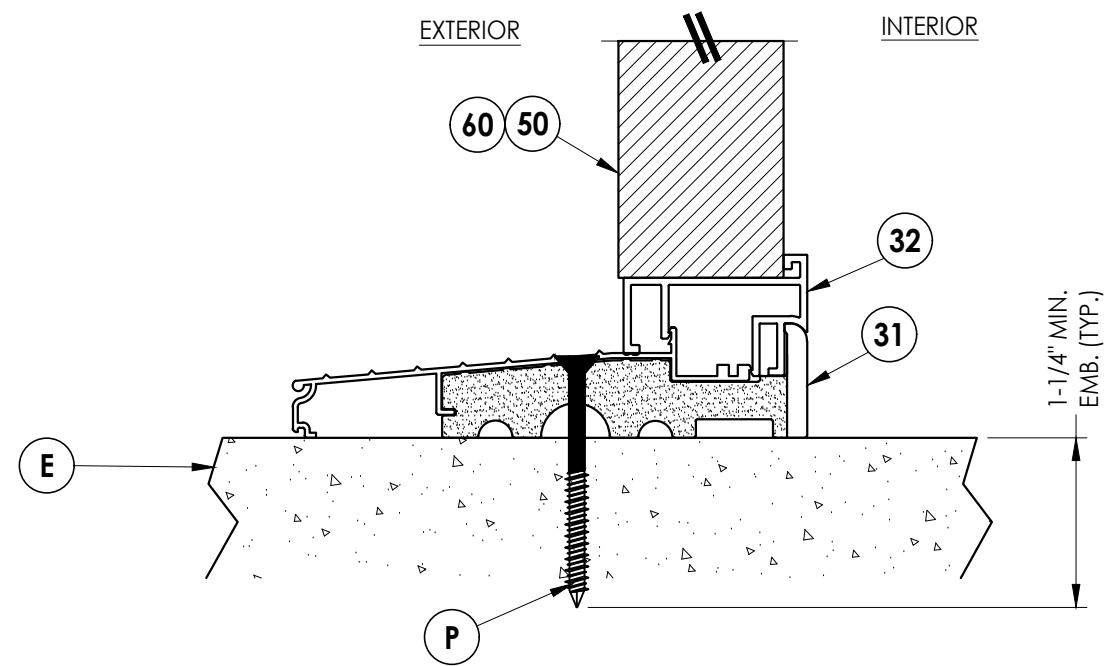
1 **VERTICAL CROSS SECTION**
10 Outswing sill - high dam



3 **VERTICAL CROSS SECTION**
10 Outswing sill - high dam



2 **VERTICAL CROSS SECTION**
10 Inswing sill



4 **VERTICAL CROSS SECTION**
10 Inswing sill

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

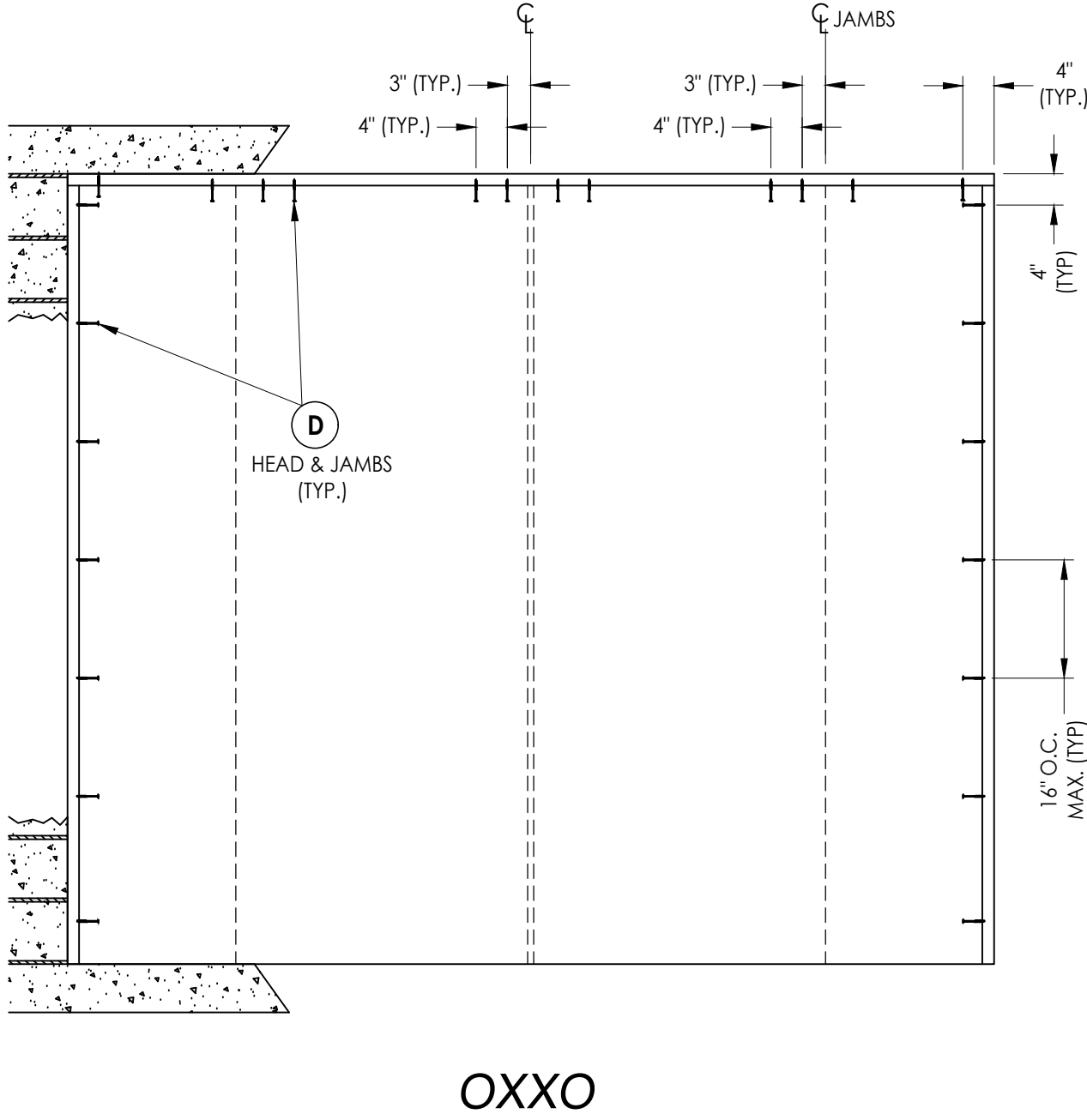
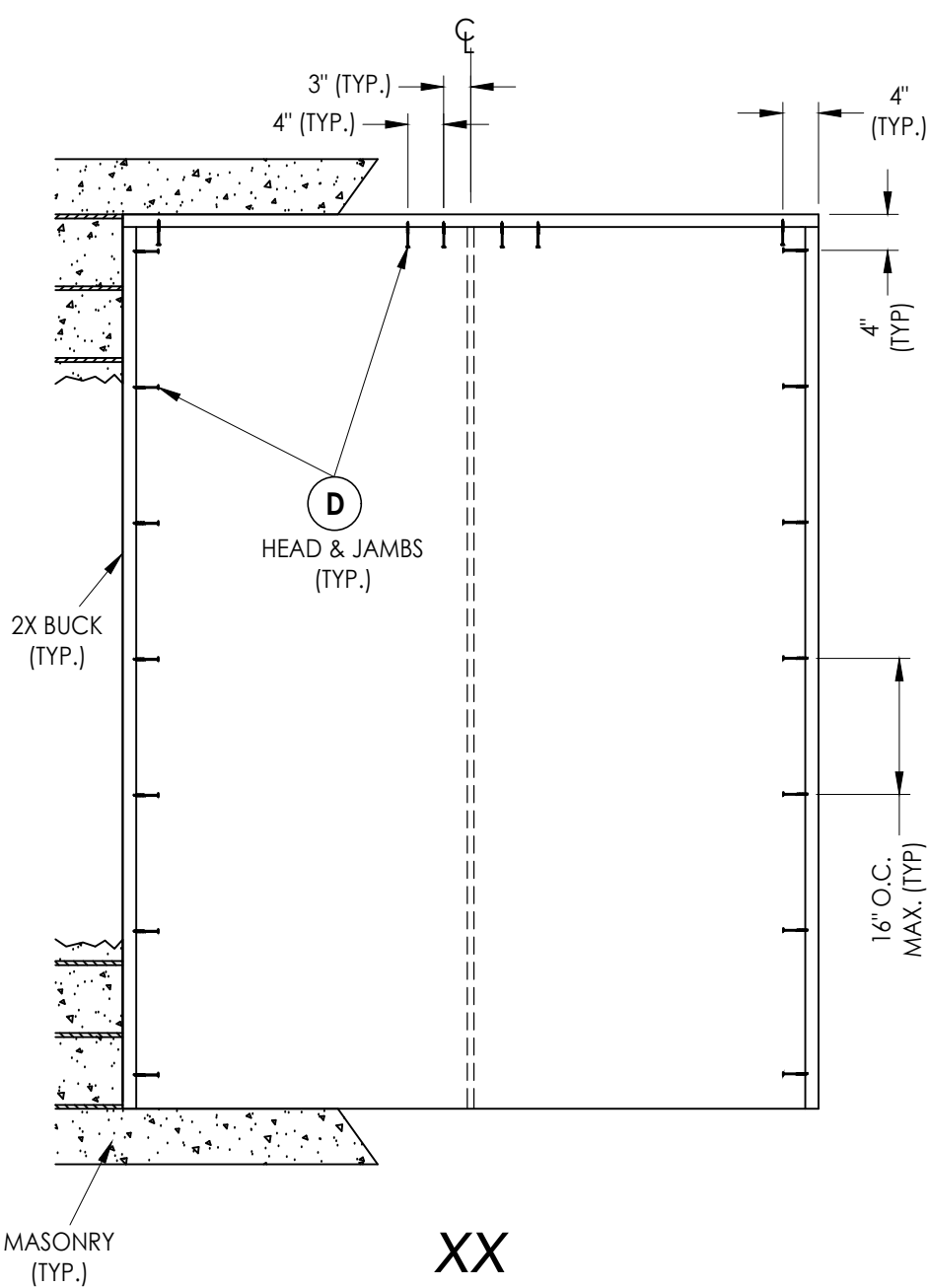
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	TRINITY GLASS INT'L
	PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS	

NO.	DATE	REVISIONS	
		BY	
2	8/01/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	8/11/20	UPDATE TO 7th ED. (2020)	FBC DAC
		& REVISE ENDURA ULT. ASTRAGAL	

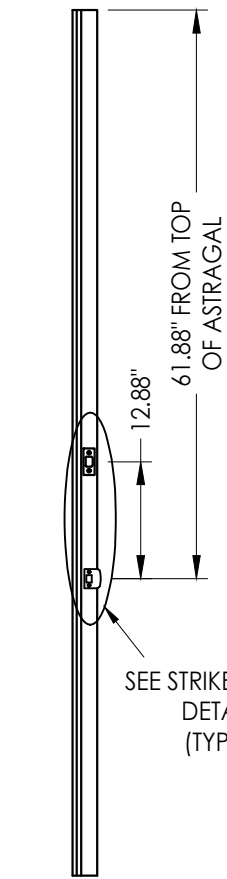
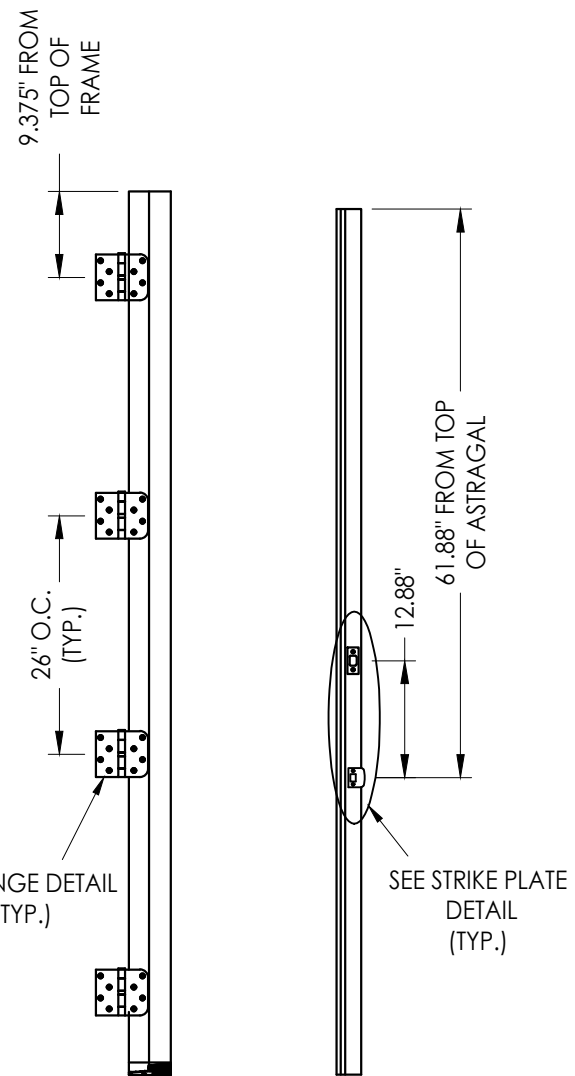
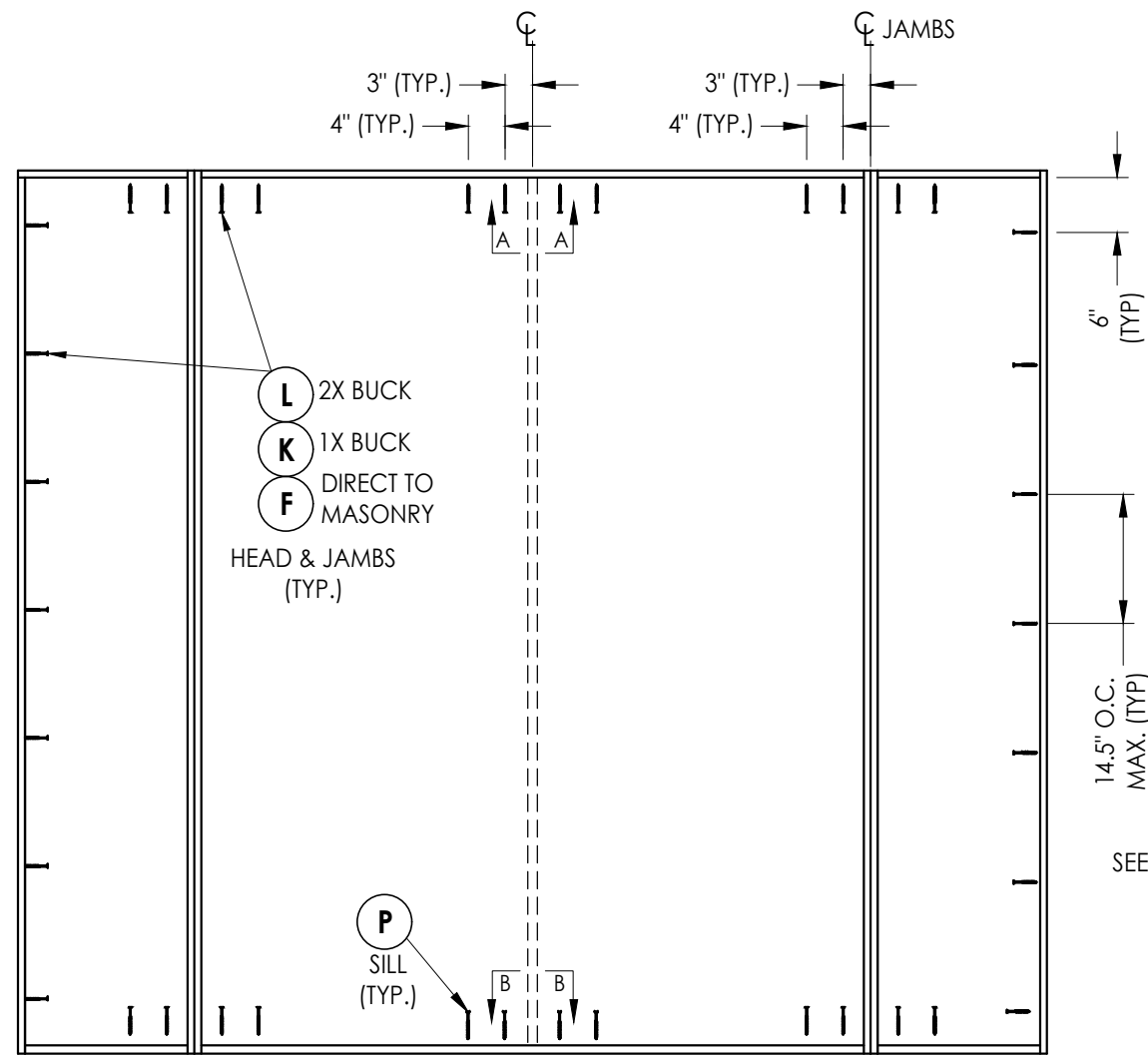
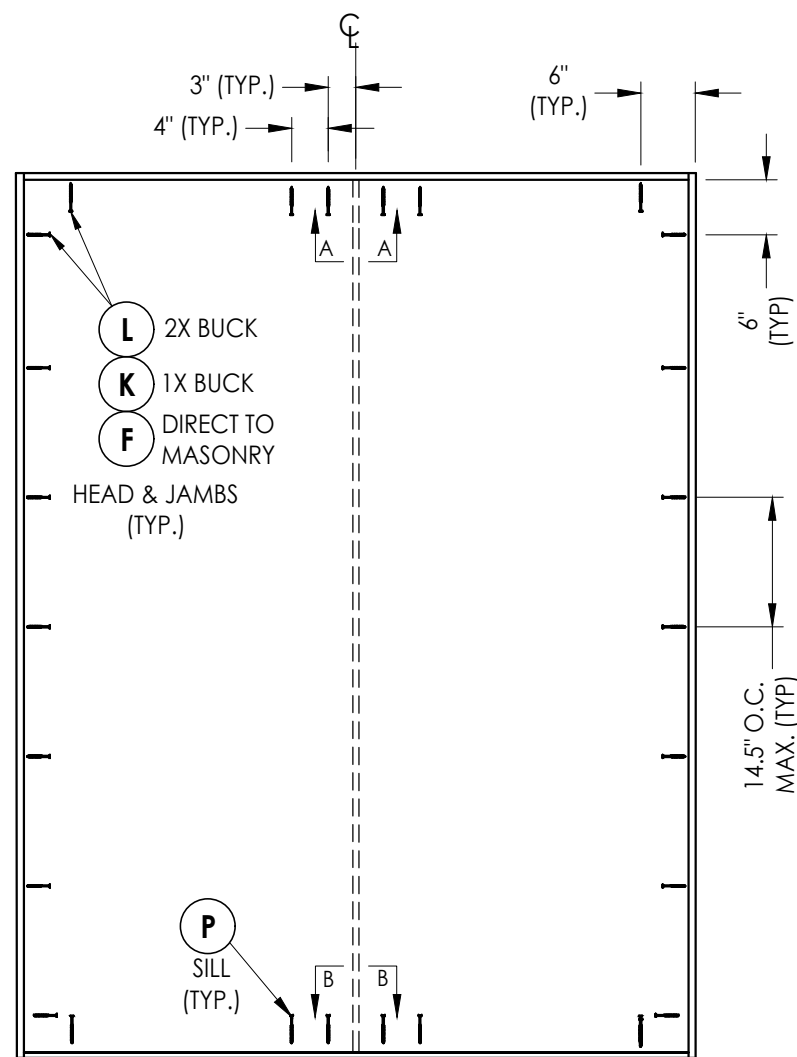
DATE:	1/28/20
SCALE:	N.T.S.
DWG. BY:	TRJ
CHK. BY:	LFS
DRAWING NO.:	FL-25575.5
SHEET	10 OF 14

Z:\2023 FBC Drawings\Trinity Glass Int'l\FL-25575 R5\FL-25575.5-6.dwg

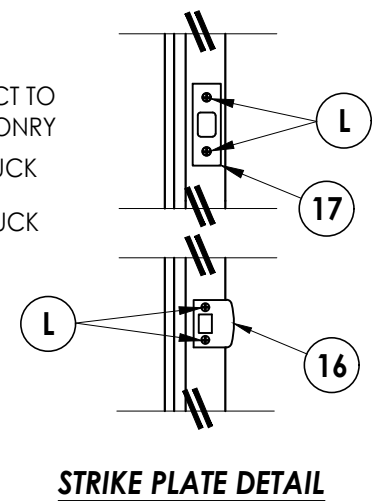
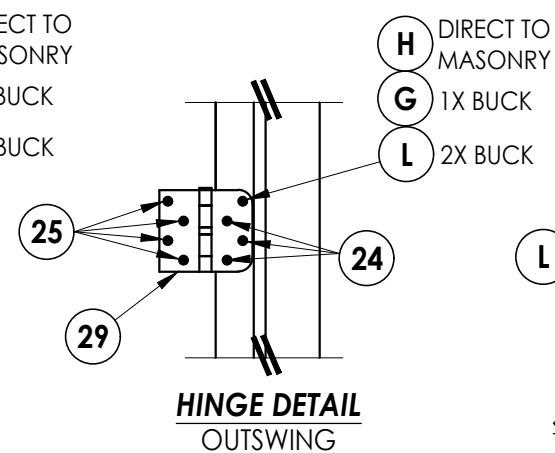
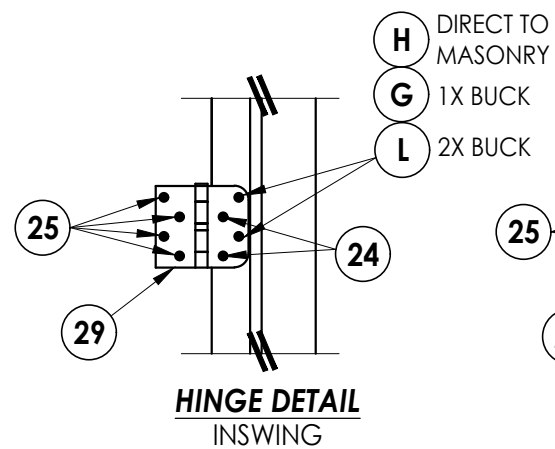
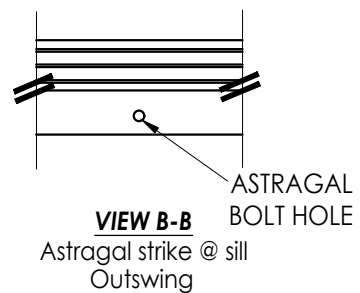
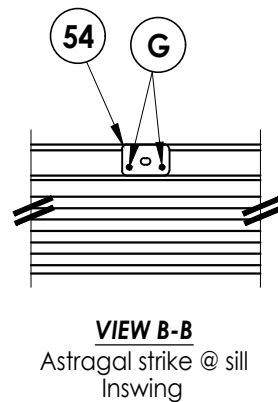
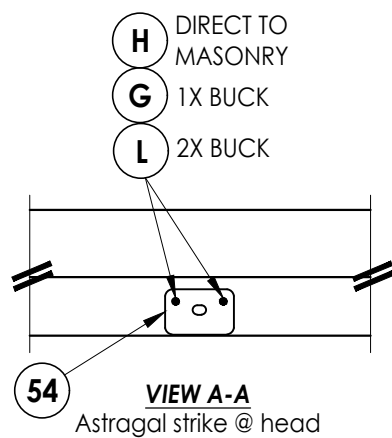


2X BUCK ANCHORING

DATE: 1/28/20		SHEET 11 OF 14	
DRAWING NO.: FL-25575.5		CHK. BY: LFS	
DWG. BY: TRJ		SCALE: N.T.S.	
NO. DATE		REVISIONS	
2	8/01/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	8/11/20	UPDATE TO 7th ED. (2020)	FBC DAC
		& REVISE ENDURA ULT. ASTRAGAL	
PRODUCT: TRINITY GLASS INT'L			
PART OR ASSEMBLY: BUCK ANCHORING			
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409			
RWBUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			



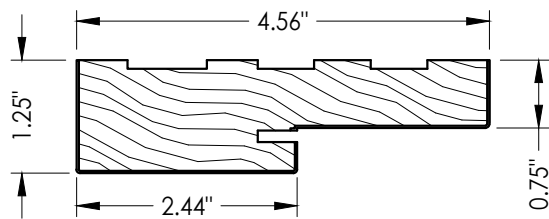
FRAME ANCHORING

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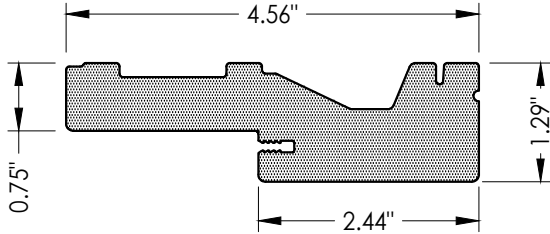
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

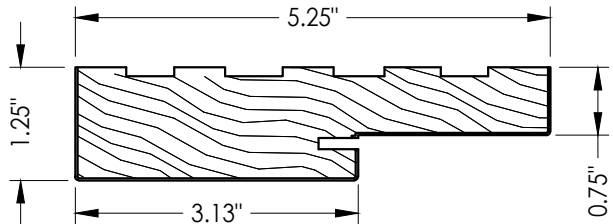
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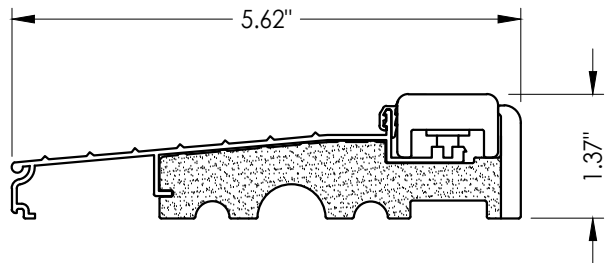
1 FINGER JOINT PINE JAMB



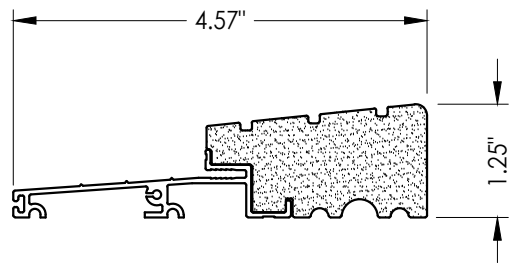
2 HEAD AND JAMBS
PVC



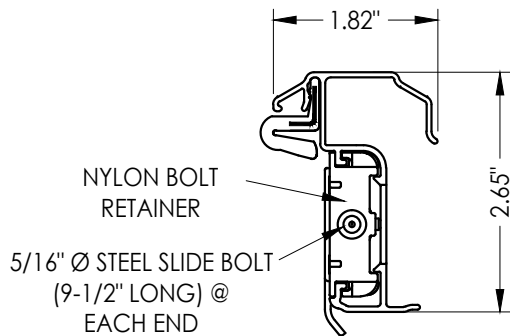
3 FINGER JOINT PINE JAMB



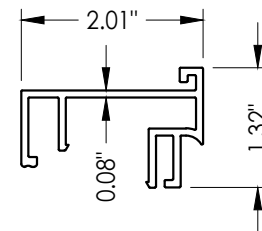
31 INSWING THRESHOLD



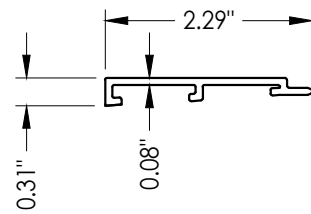
33 INSWING THRESHOLD
High-dam



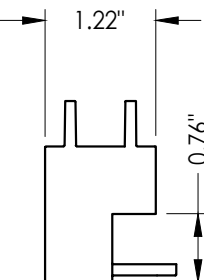
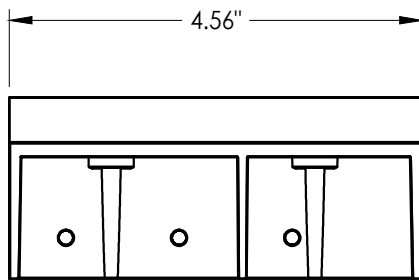
53 ULTIMATE HURRICANE ASTRAGAL
By Endura Products



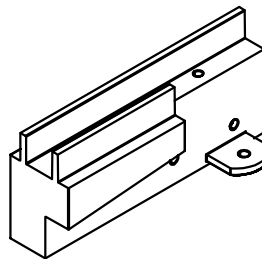
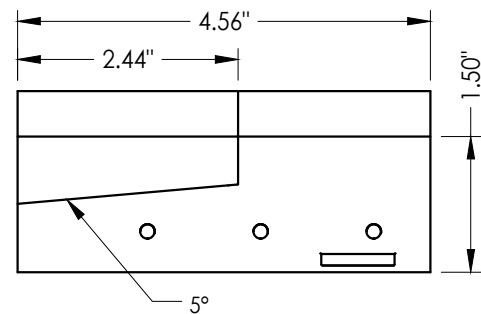
32 SIDELITE SPACER
Inswing



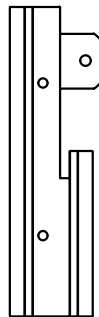
34 SIDELITE SPACER
Outswing



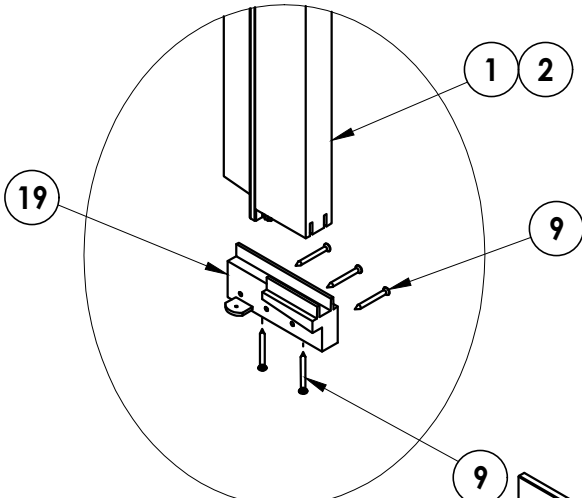
19 SILLKEY DETAILS
Optional



SILLKEY, LEFT
SCALE: NONE



SILLKEY, RIGHT
SCALE: NONE



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS
2	8/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
		& REVISE ENDURA ULT. ASTRAGAL

DATE: 1/28/20

SCALE: N.T.S.

DWG. BY: TRJ

CHK. BY: LFS

DRAWING NO.:
FL-25575.5

SHEET 13 OF 14

Z:\2023 FBC Drawings\Trinity Glass Int'l\FL-25575 R5\FL-25575.5-6.dwg

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" PFH ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
K	1/4" X 2-3/4" PFH DeWALT CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WS (1.15" MIN. EMBEDMENT)	STEEL
P	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	HEAD & JAMB (FINGER-JOINT PINE - SG >= 0.42)	WOOD
2	HEAD & JAMB	PVC
3	HEAD & JAMB (5.25") (FINGER-JOINT PINE - SG >= 0.42)	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR BOTTOM SWEEP	PVC
9	#6 X 1-1/4 PFH DRYWALL SCREW	STEEL
11	#9 X 2-1/4" PFH WOOD SCREW	STEEL
16	LATCH STRIKE PLATE	STEEL
17	DEADBOLT STRIKE PLATE	STEEL
19	SILLKEY	PC/ASA
24	#9 X 3/4" PFH WS	STEEL
25	#9 X 1" PFH WS	STEEL
26	#8 X 2" PFH WS	STEEL
27	#8 X 2-1/2" PFH WOOD SCREW	STEEL
28	#10 X 3" PFH WOOD SCREW	STEEL
29	4" X 4" HINGE	STEEL
31	INSWING THRESHOLD ALUMINUM w/ COMPOSITE SUBSTRATE	ALUM./ COMP.
32	SIDELITE SPACER - INSWING	PVC
33	OUTSWING HIGH-DAM THRESHOLD ALUMINUM w/ COMPOSITE SUBSTRATE	ALUM./ COMP.
34	SIDELITE SPACER - OUTSWING	PVC
40	DOOR PANEL - (LIGHHOUSE)	-
50	SIDELITE - LIP LITE GLAZED	-
60	SIDELITE - FLUSH GLAZING	-
53	ALUMINUM ASTRAGAL	ALUM
54	ASTRAGAL STRIKE PLATE	STEEL

CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

TRINITY GLASS INT'L

PART OR ASSEMBLY:
BILL OF MATERIALS

28/01/23
8/01/23
8/11/20

UPDATE TO 8TH ED. (2023)
FBC
UPDATE TO 7th ED. (2020)
FBC
& REVISE ENDURA ULT. ASTRAGAL

LFS
DAC
BY

NO. DATE

REVISIONS

DATE: 1/28/20

SCALE: N.T.S.

DWG. BY: TRJ

CHK. BY: LFS

DRAWING NO.: FL-25575.5

SHEET 14 OF 14

RW

BUILDING CONSULTANTS, INC.
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