

"Lighthouse"

GLAZED FIBERGLASS DOOR

w/ SIDELITE(S)

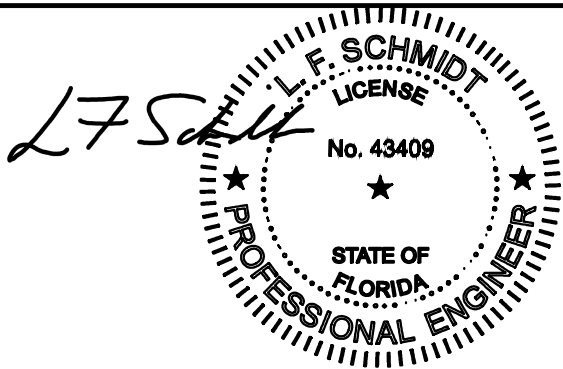
"NON-IMPACT"

INSWING / OUTSWING

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 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
4	Elevations
5	Horizontal and vertical cross sections (2x buck)
6	Horizontal and vertical cross sections (1x buck)
7	Horizontal and vertical cross sections (Direct to Masonry)
8	Horizontal cross sections
9	Vertical cross sections
10	Buck anchoring
11	Frame anchoring
12	Components
13	Bill of materials



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



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)		DESIGN PRESSURE (PSF)	
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OX/XO	52.5" x 81.88"	+55.0	-60.0	+55.0	-55.0
OXO	67.5" x 81.88"	+55.0	-60.0	+55.0	-55.0

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

TRINITY GLASS INT'L

PRODUCT:

8/01/23

8/11/20

2/04/20

NO. 1

DATE

UPDATE TO 8TH ED. (2023)

UPDATE TO 7th ED. (2020)

DEFINE MODEL DESCRIPTION

FBC

FBC

LFS

DAC

RW

BY

REVISIONS

DATE: 12/8/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-25575.2

SHEET 1 OF 13

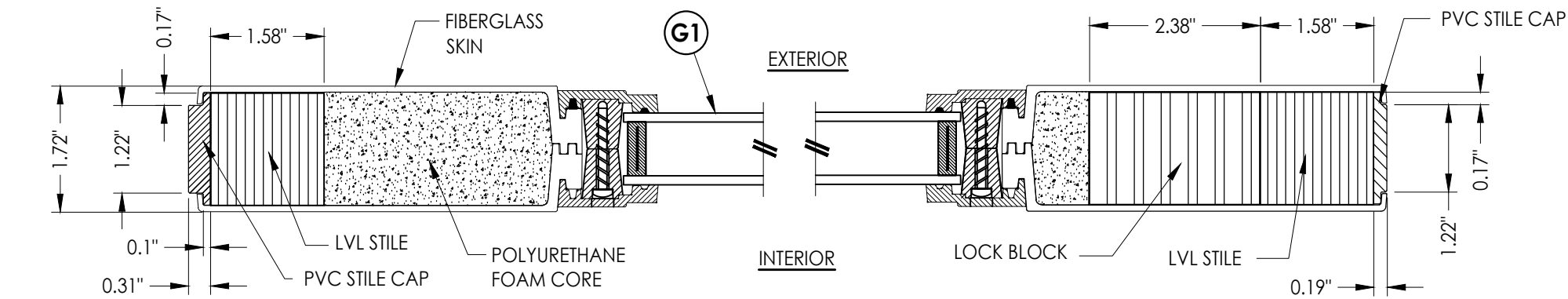
BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595

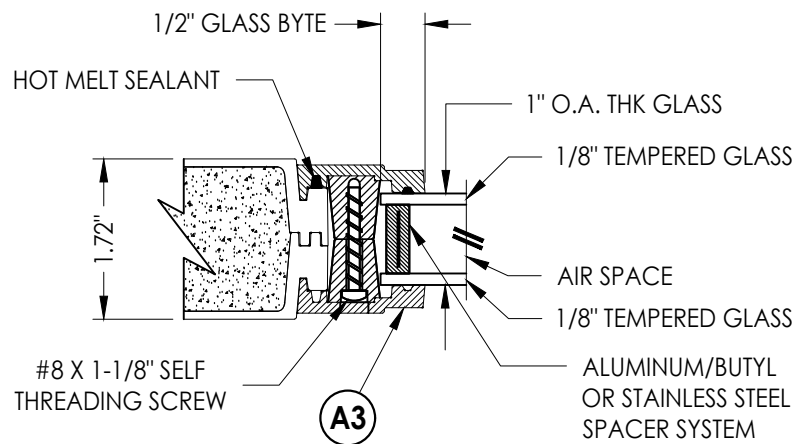
Phone No.: 813.659.9197

FBPE Registry No. 9813

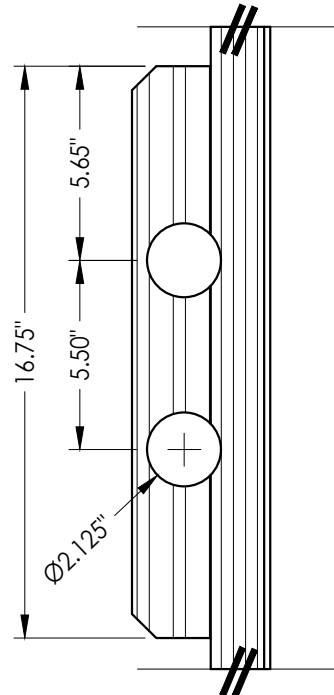
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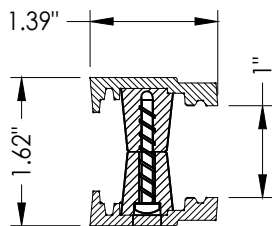
1
2
HORIZONTAL CROSS SECTION



G1
GLAZING DETAIL

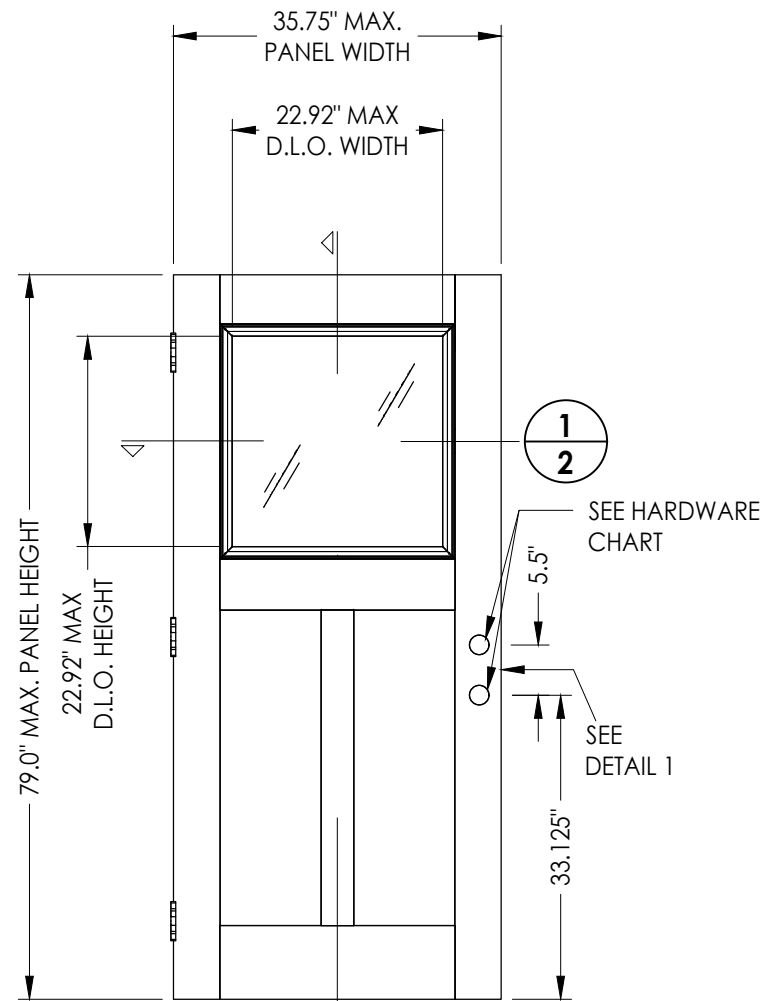


DETAIL 1



A3
FRAME FIBERGLASS

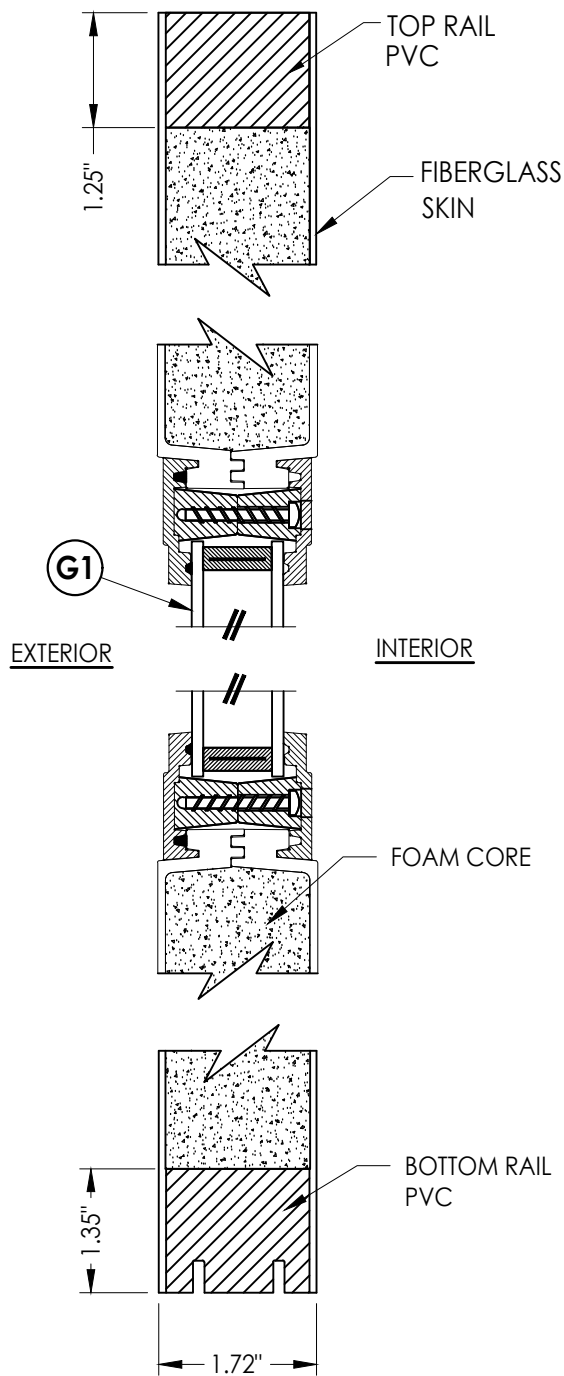
HARDWARE CHART		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	KNOB:	F SERIES
	DEADBOLT:	B60 SERIES



2
2

40
GLAZED DOOR
LIGHTHOUSE

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



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	DATE	DESCRIPTION	DATE
3	8/01/23	LFS		UPDATE TO 8TH ED. (2023) FBC	
2	8/11/20	DAC		UPDATE TO 7th ED. (2020) FBC	
1	2/04/20	RW		DEFINE MODEL DESCRIPTION	

DATE: 12/8/17

SCALE: N.T.S.

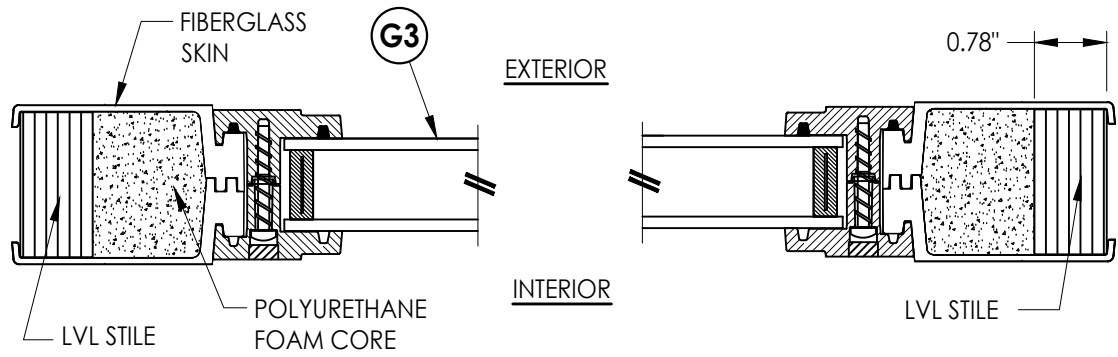
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CHK. BY: LFS

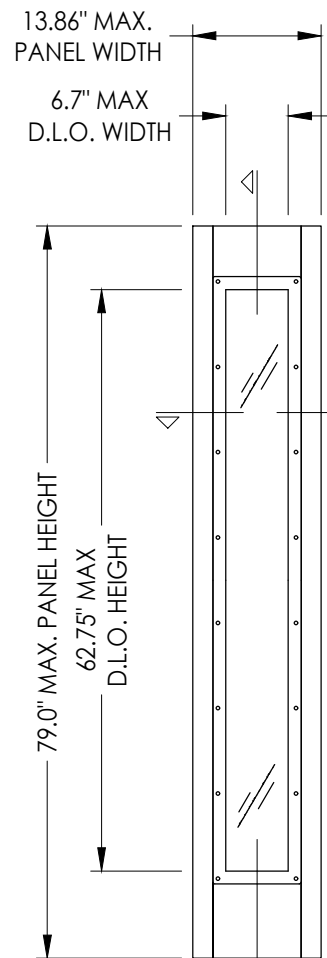
DRAWING NO.: FL-25575.2

SHEET 2 OF 13

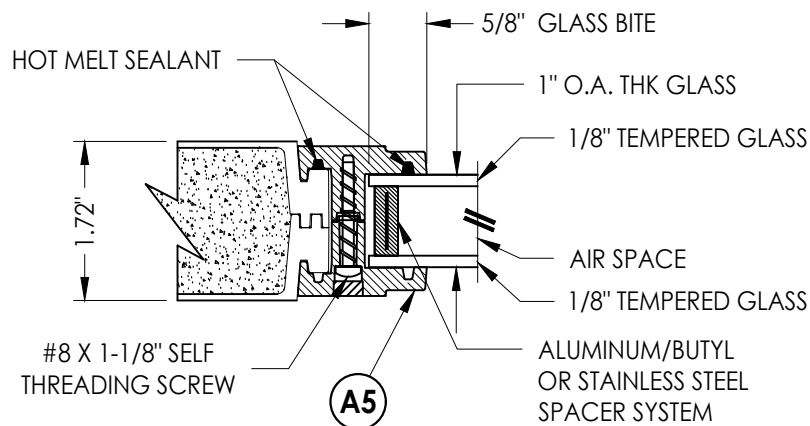
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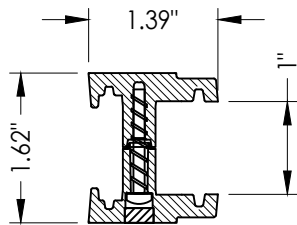
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3 HORIZONTAL CROSS SECTION



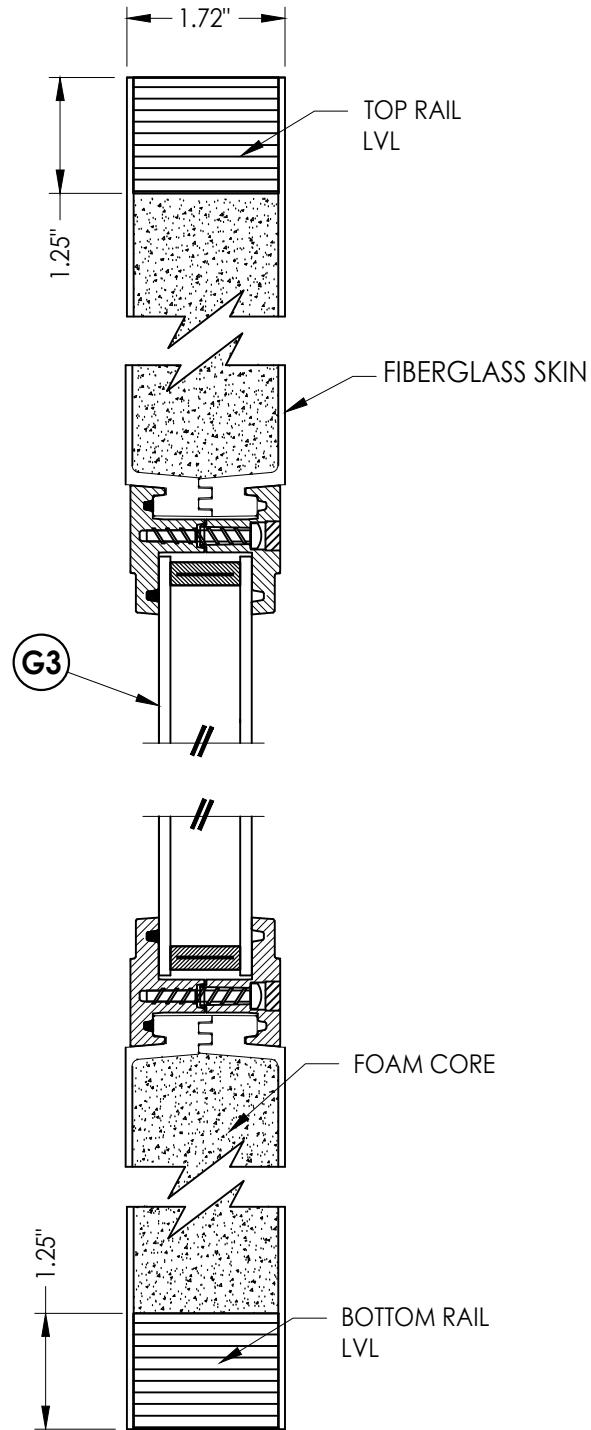
2
3 70 SIDELITE PANEL



G3 GLAZING DETAIL



A5 FRAME
ABS



2
3 VERTICAL CROSS SECTION

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

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P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
3	8/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
1	2/04/20	DEFINE MODEL DESCRIPTION RW

DATE: 12/8/17

SCALE: N.T.S.

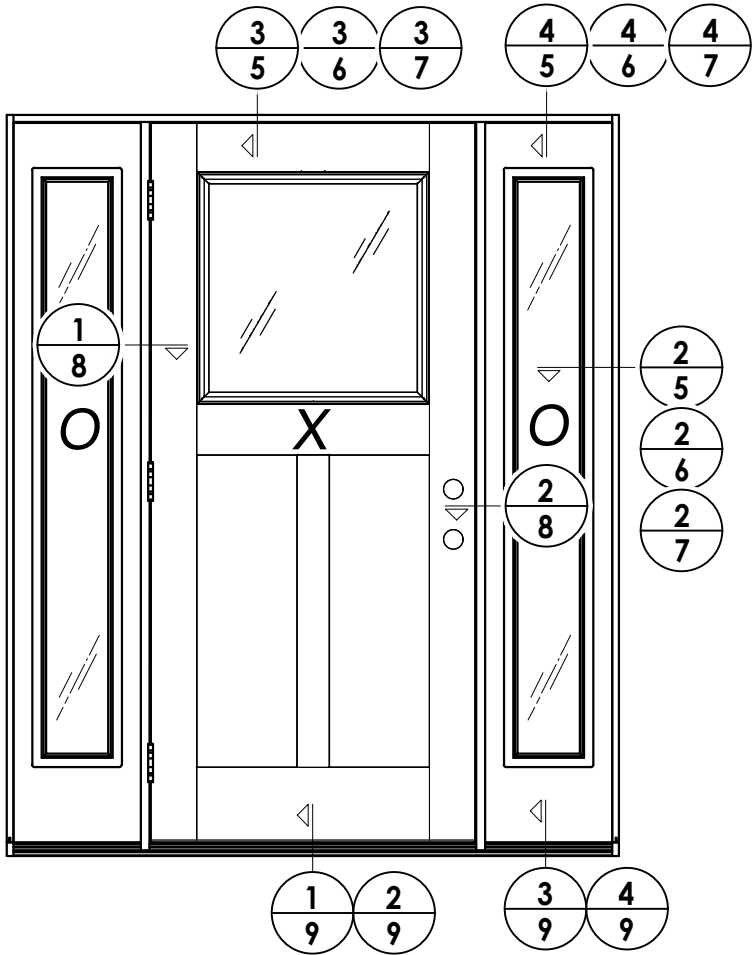
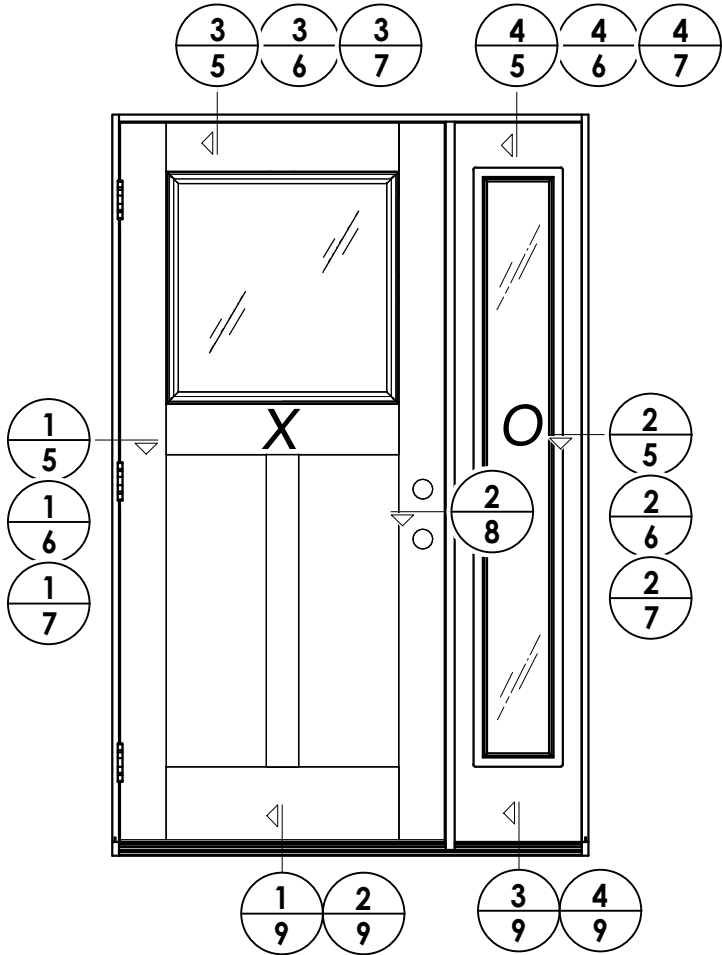
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CHK. BY: LFS

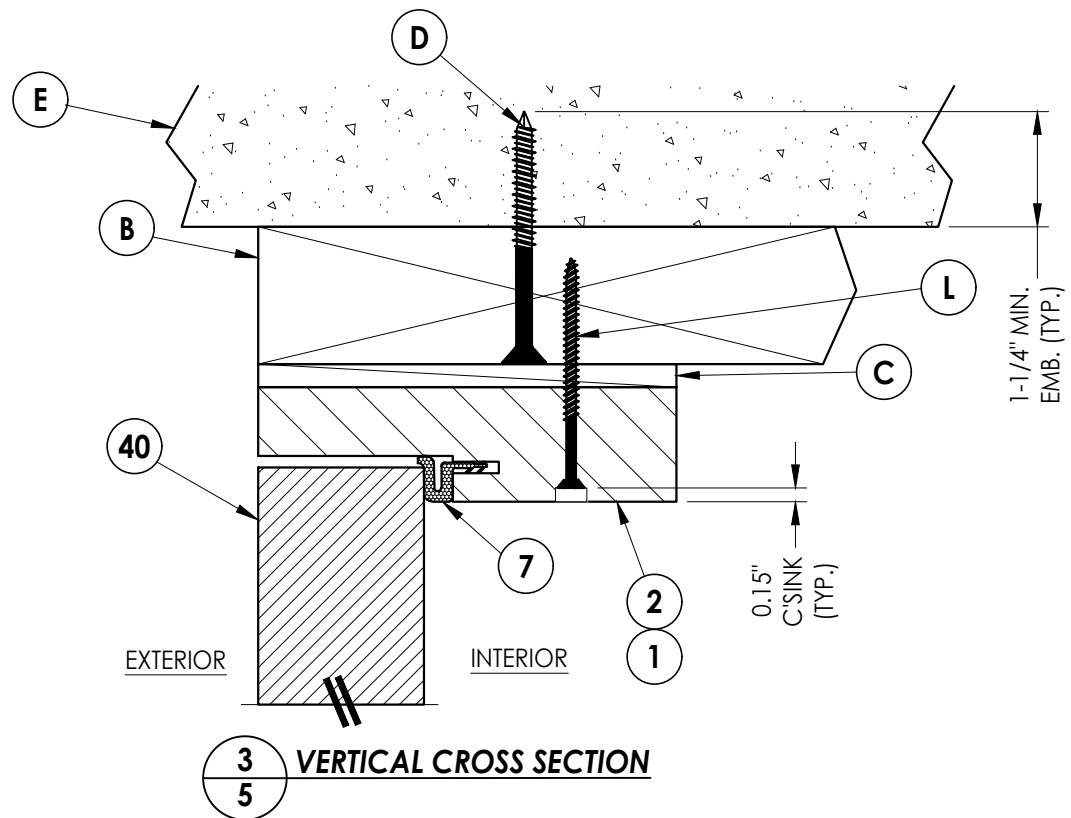
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FL-25575.2

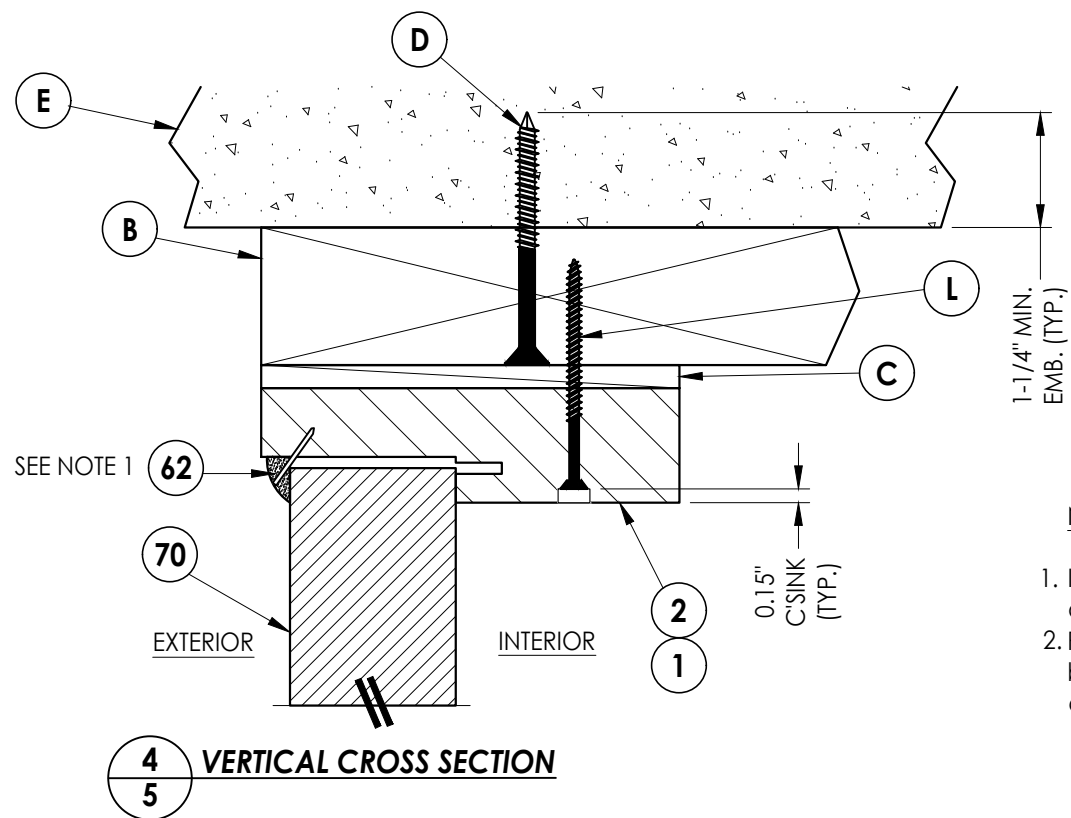
SHEET 3 OF 13



DATE: 12/8/17										Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409									
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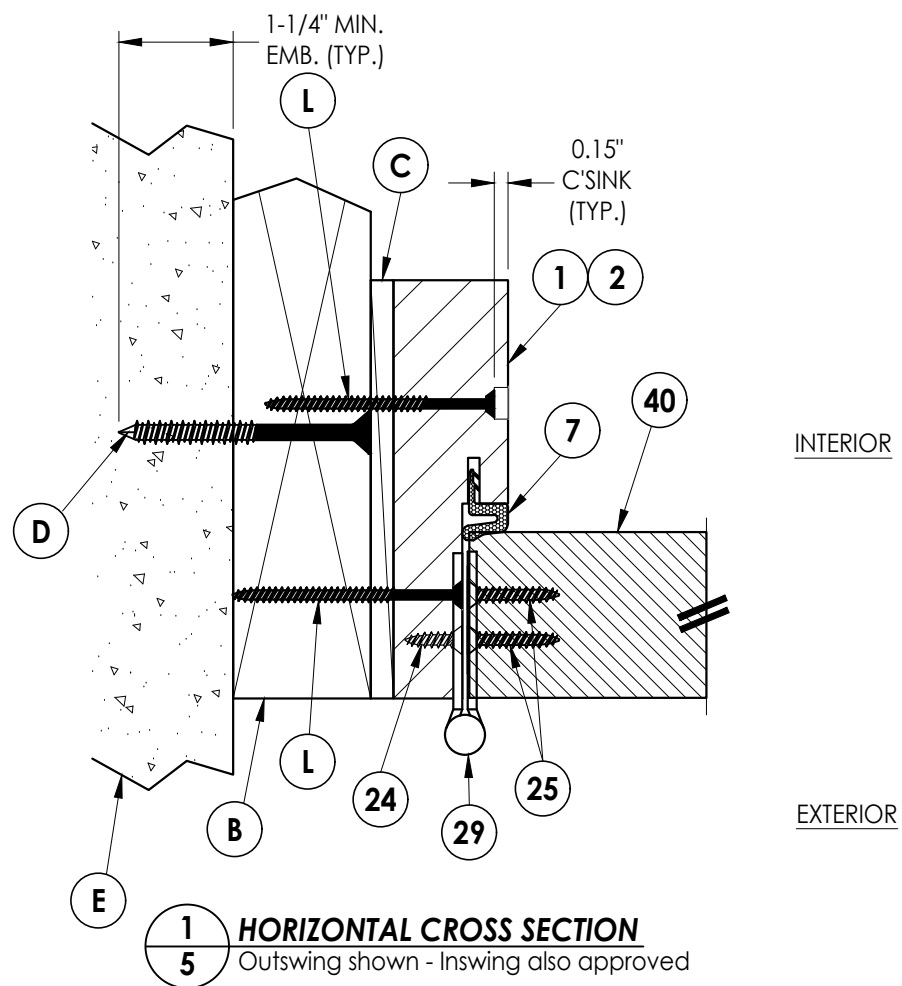
3 **VERTICAL CROSS SECTION**
5



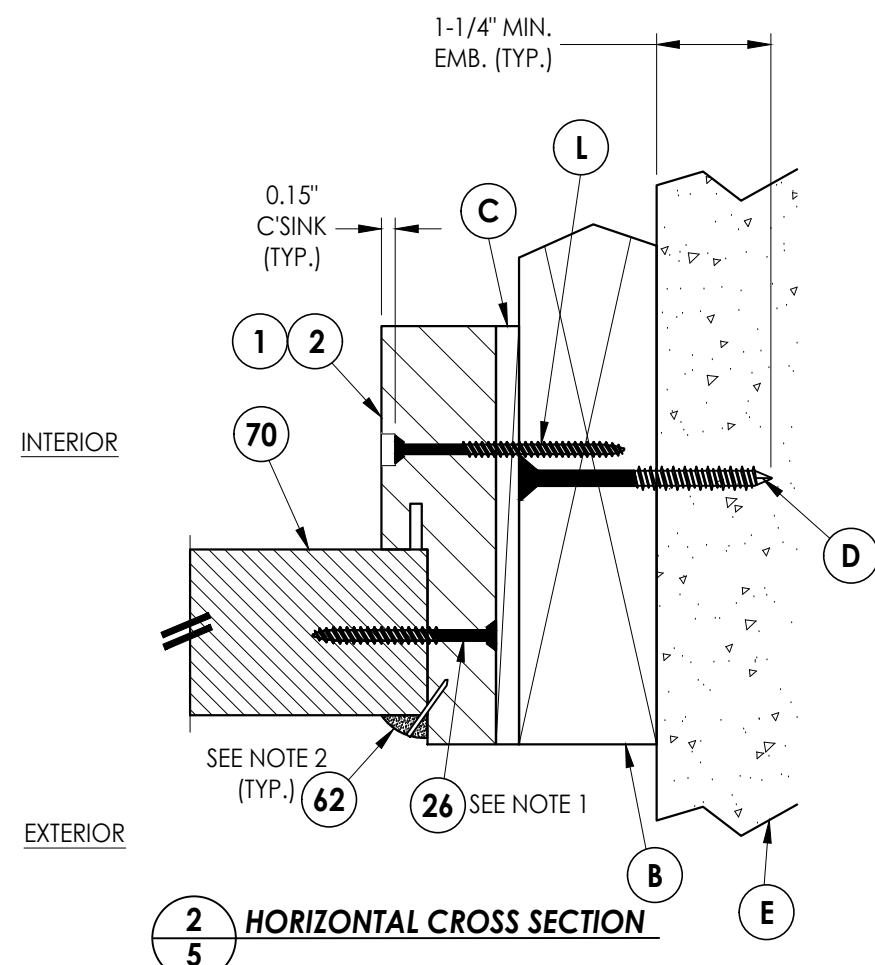
4 VERTICAL CROSS SECTION

NOTE:

1. Item #26 located 6" from each end and 3 more equally spaced (5 total).
2. PVC Quarter round attached with 18 GA. brad nail 3" from each end then 8" on center thereafter.



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



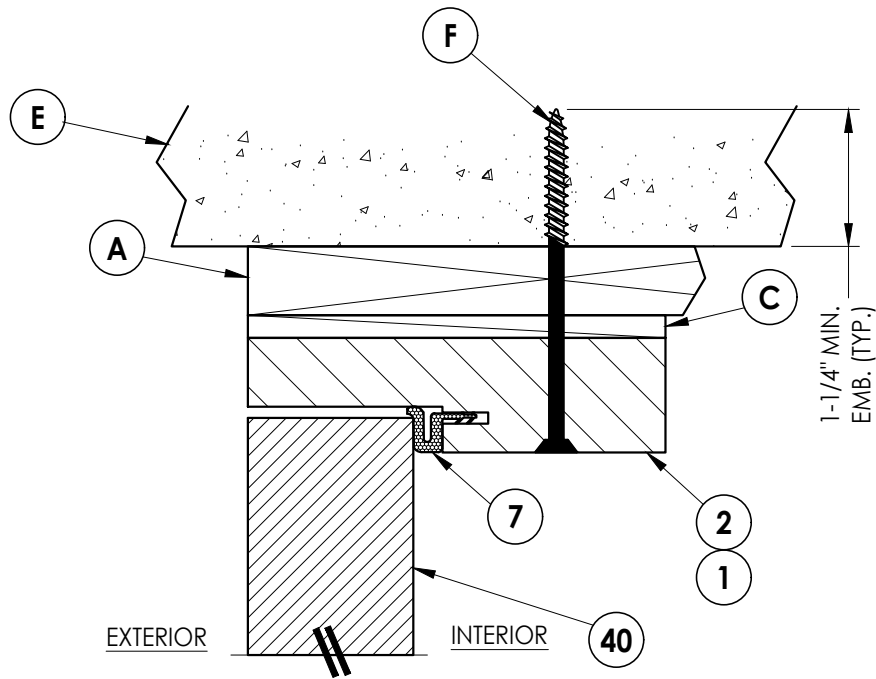
2 **HORIZONTAL CROSS SECTION**
5

[illegible]

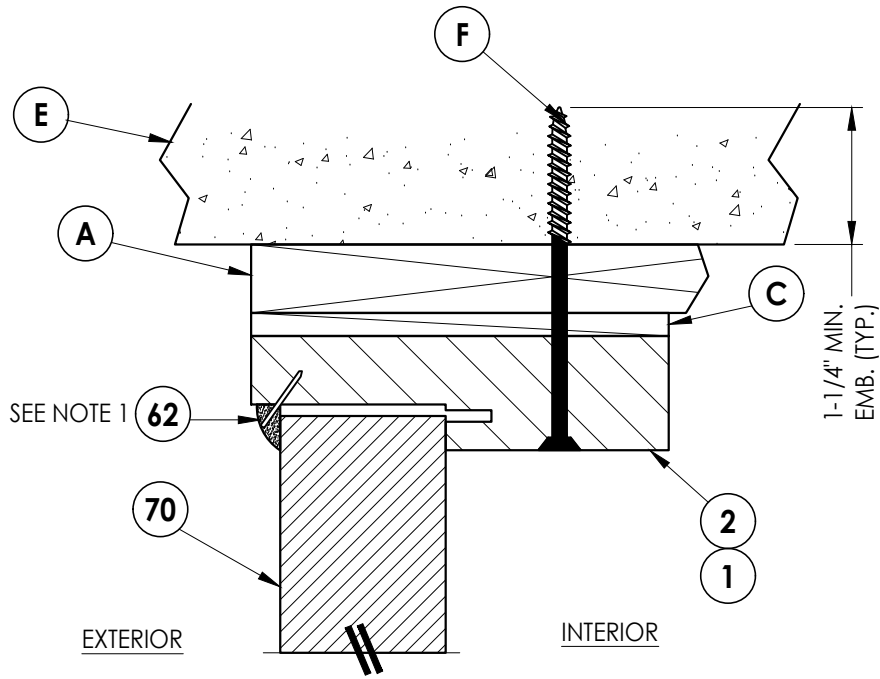
Documents Prepared By:
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P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

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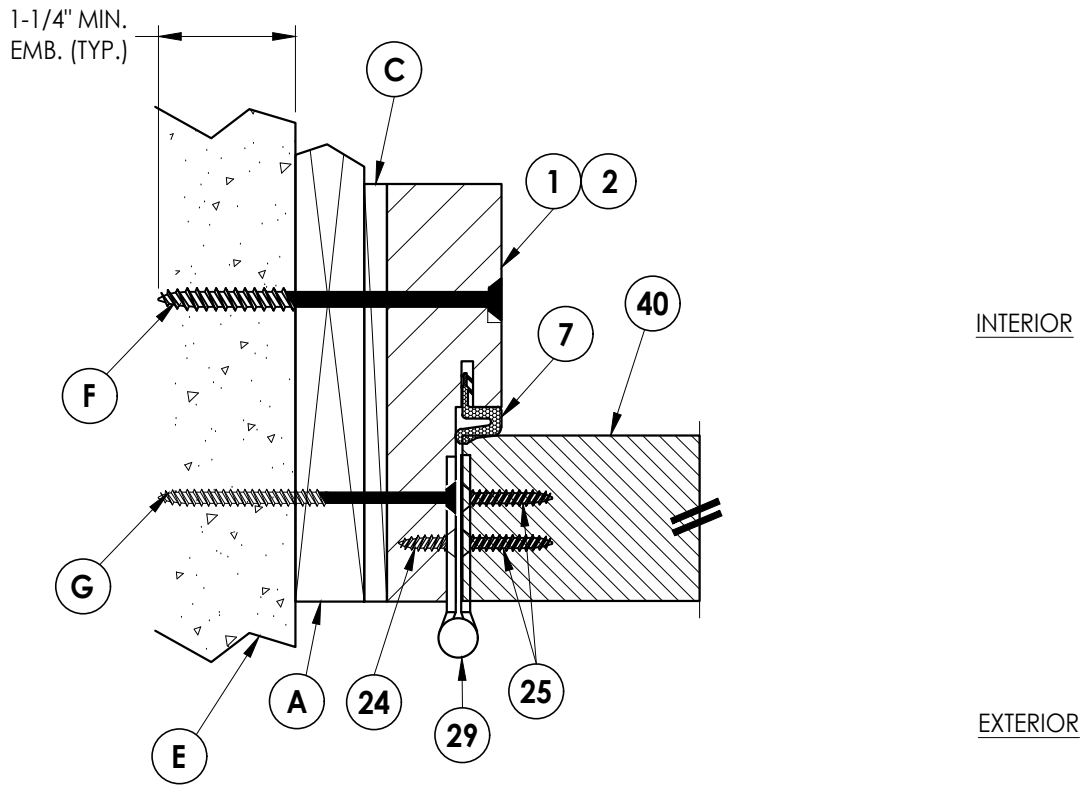
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6 VERTICAL CROSS SECTION



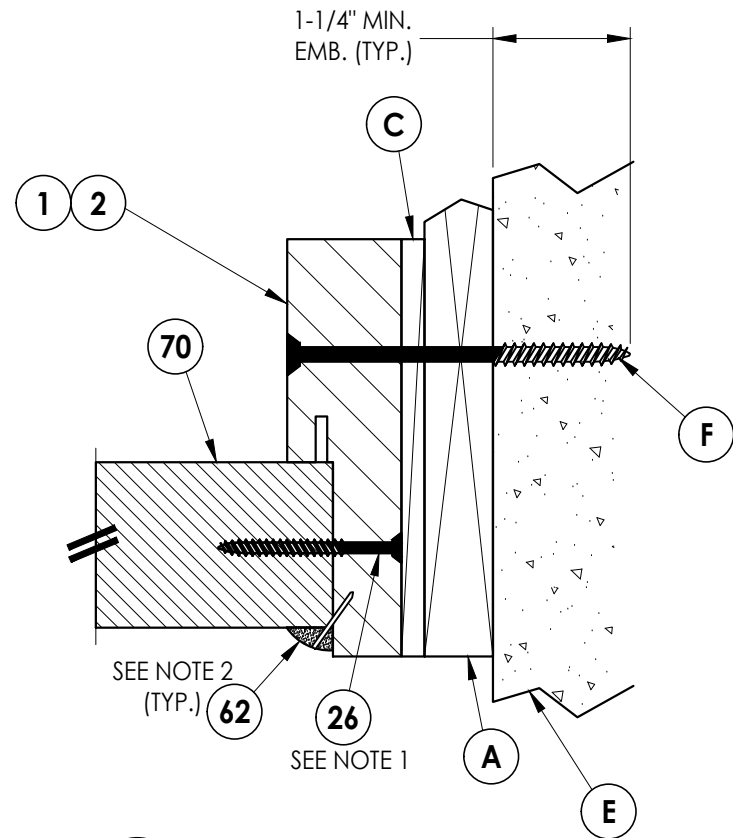
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6 VERTICAL CROSS SECTION

NOTE:

- Item #26 located 6" from each end and 3 more equally spaced (5 total).
- PVC Quarter round attached with 18 GA. brad nail 3" from each end then 8" on center thereafter.



1
6 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



2
6 HORIZONTAL CROSS SECTION

Documents Prepared By:
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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 (1X BUCK)

NO.	DATE	REVISIONS		
		BY	DATE	DESCRIPTION
3	8/01/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
2	8/11/20	UPDATE TO 7th ED. (2020)	FBC	DAC
1	2/04/20	DEFINE MODEL DESCRIPTION		RW

DATE: 12/8/17

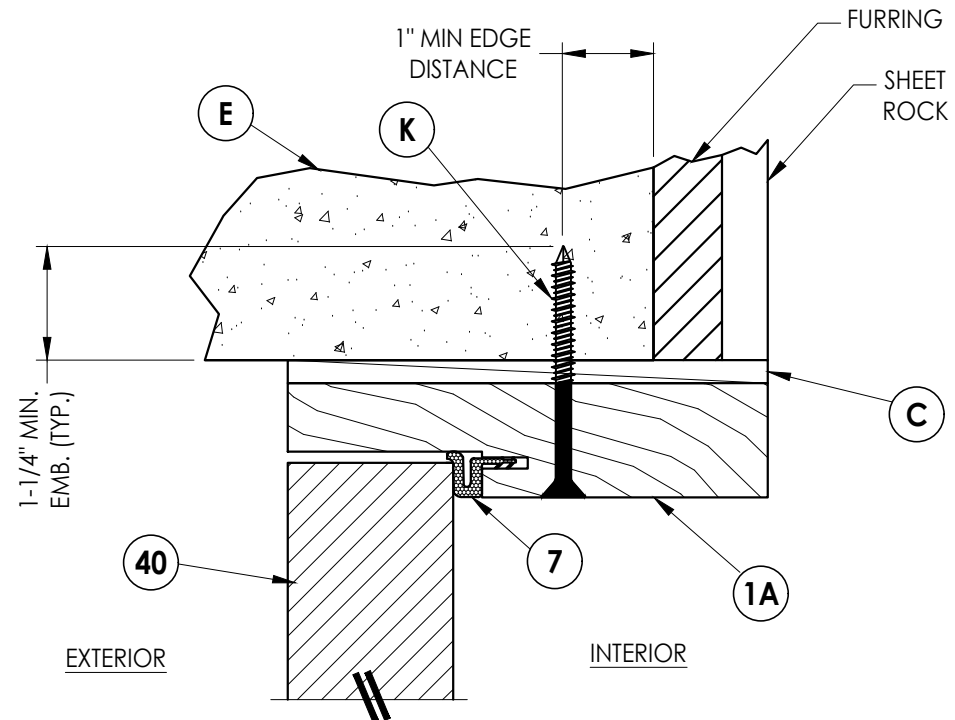
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-25575.2

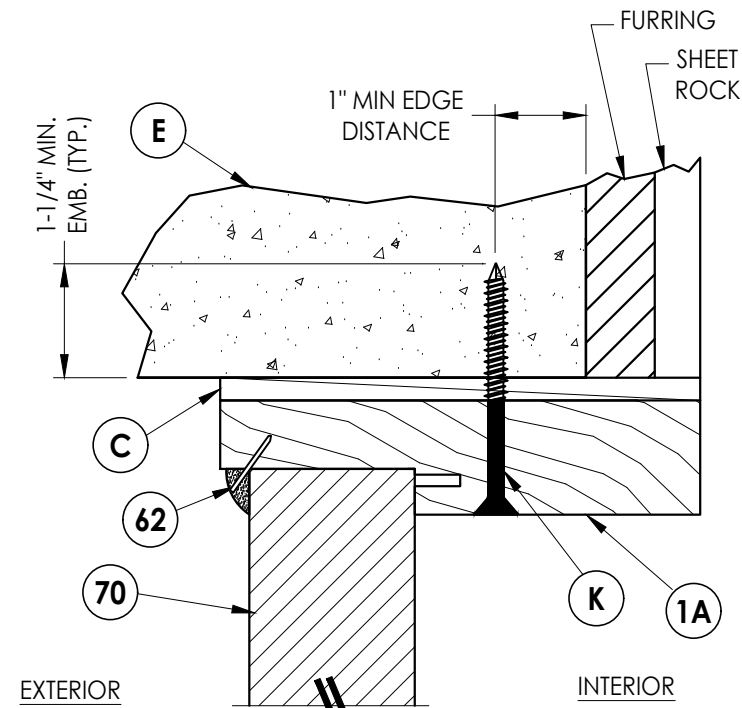
SHEET 6 OF 13



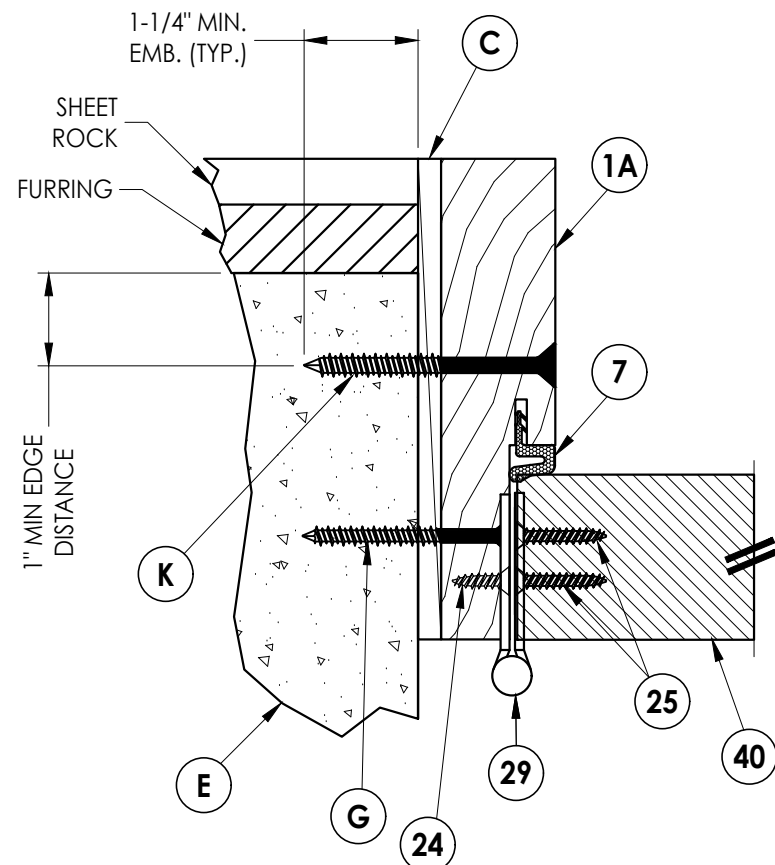
3 7 VERTICAL CROSS SECTION

NOTE:

1. Item #26 located 6" from each end and 3 more equally spaced (5 total).
2. PVC Quarter round attached with 18 GA. brad nail 3" from each end then 8" on center thereafter.



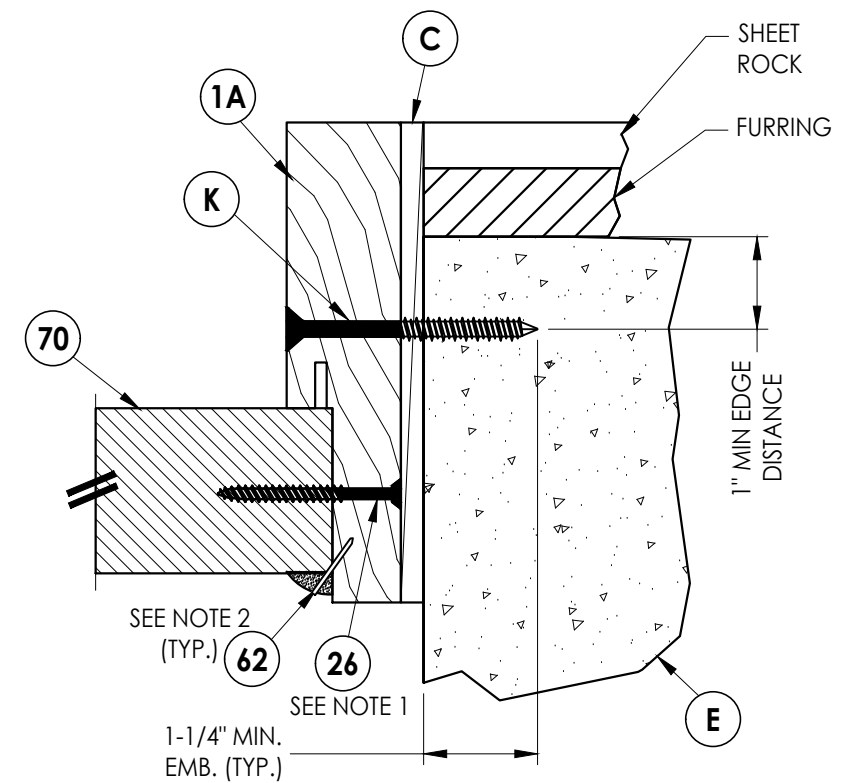
4 **VERTICAL CROSS SECTION**
7 Outswing only



1 7 **HORIZONTAL CROSS SECTION** Outswing only

INTERIOR

EXTERIOR



2 7 HORIZONTAL CROSS SECTION

Outswing only

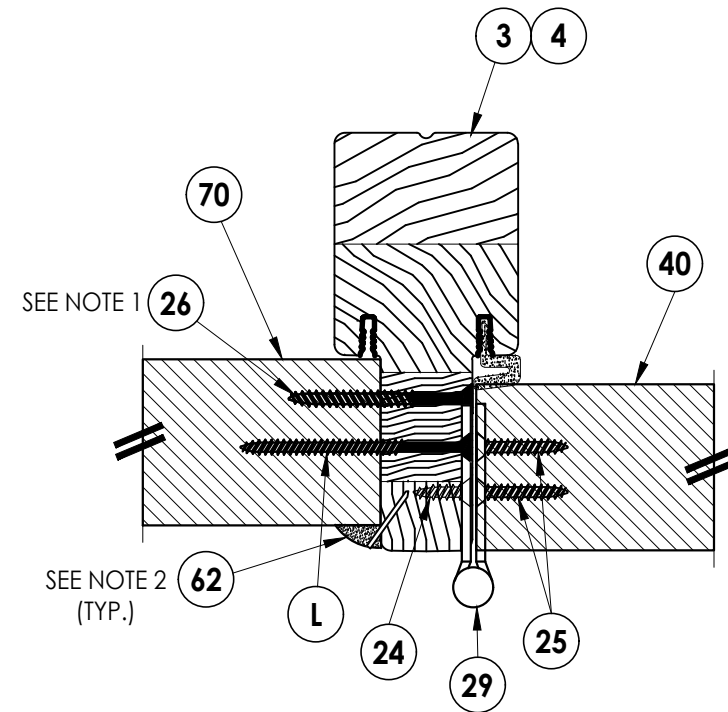
[illegible]

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

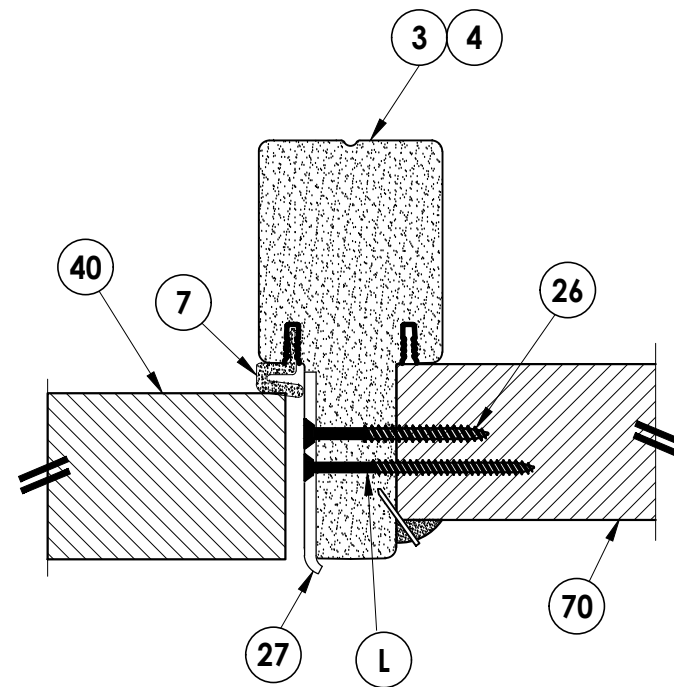
NOTE:

1. Item #26 located 6" from each end and 3 more equally spaced (5 total).
2. PVC Quarter round attached with 18 GA. brad nail 3" from each end then 8" on center thereafter.



INTERIOR

EXTERIOR



2 **HORIZONTAL CROSS SECTION**
8 Outswing shown - Inswing also appro

Outswing shown - Inswing also approved

[illegible]

DATE: 12/8/17

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-25575.2

SHEET 8 OF 13

PRODUCT: _____

TRINITY GLASS INT'L

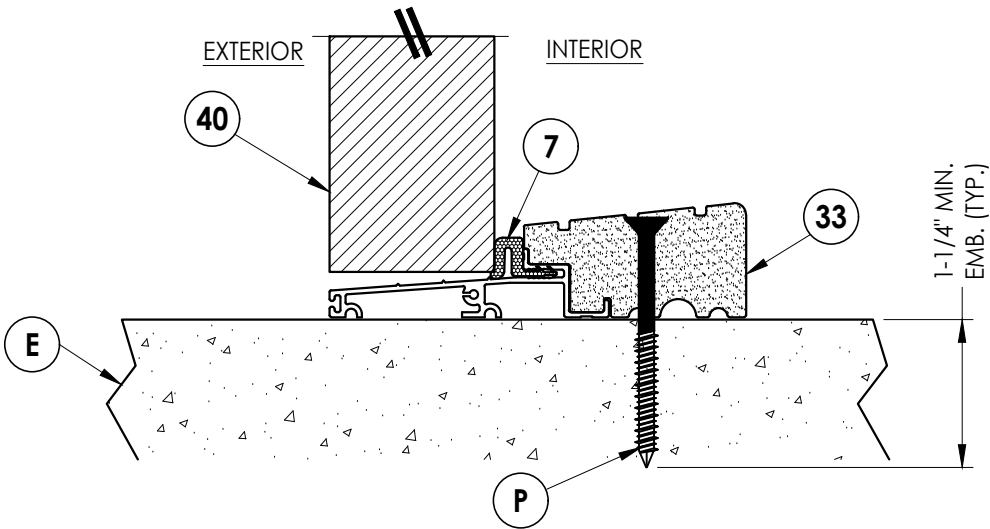
PART OR ASSEMBLY:

HORIZONTAL CROSS SECTIONS

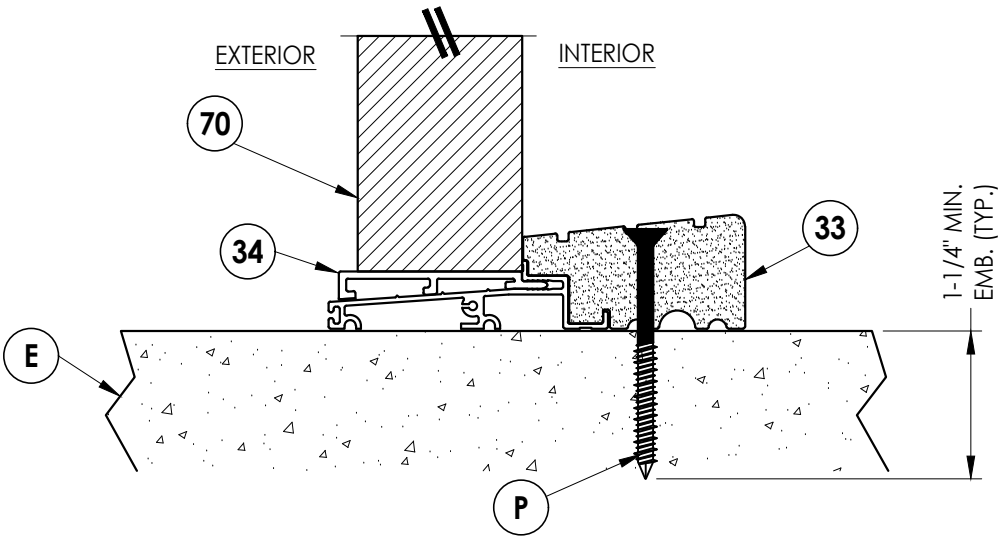
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

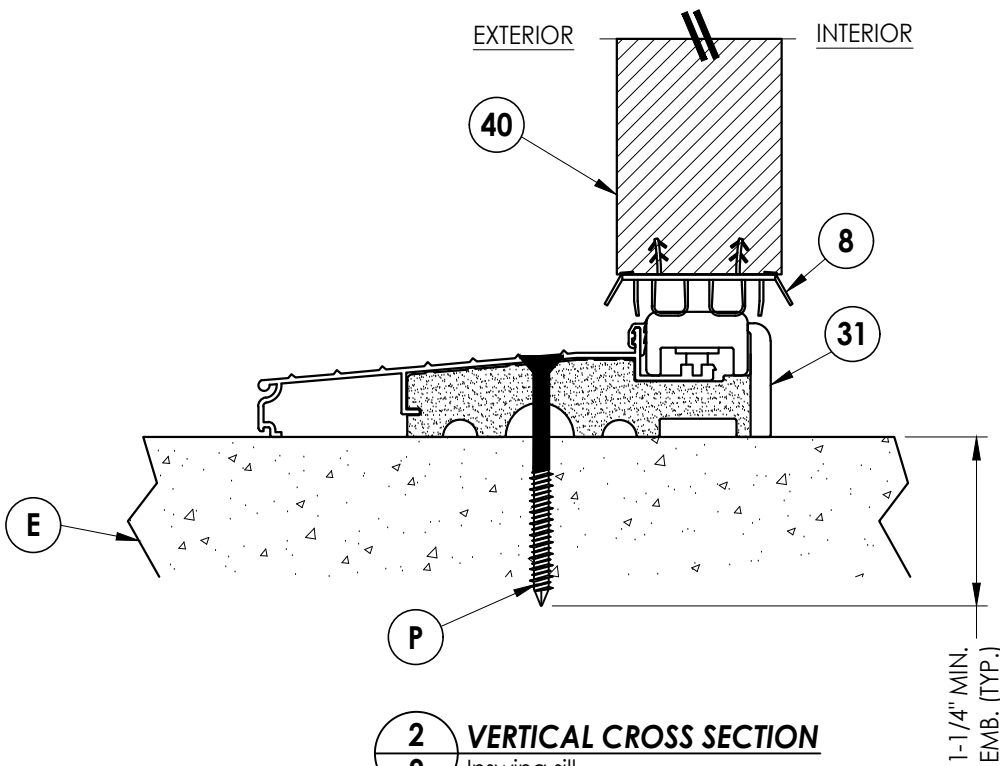
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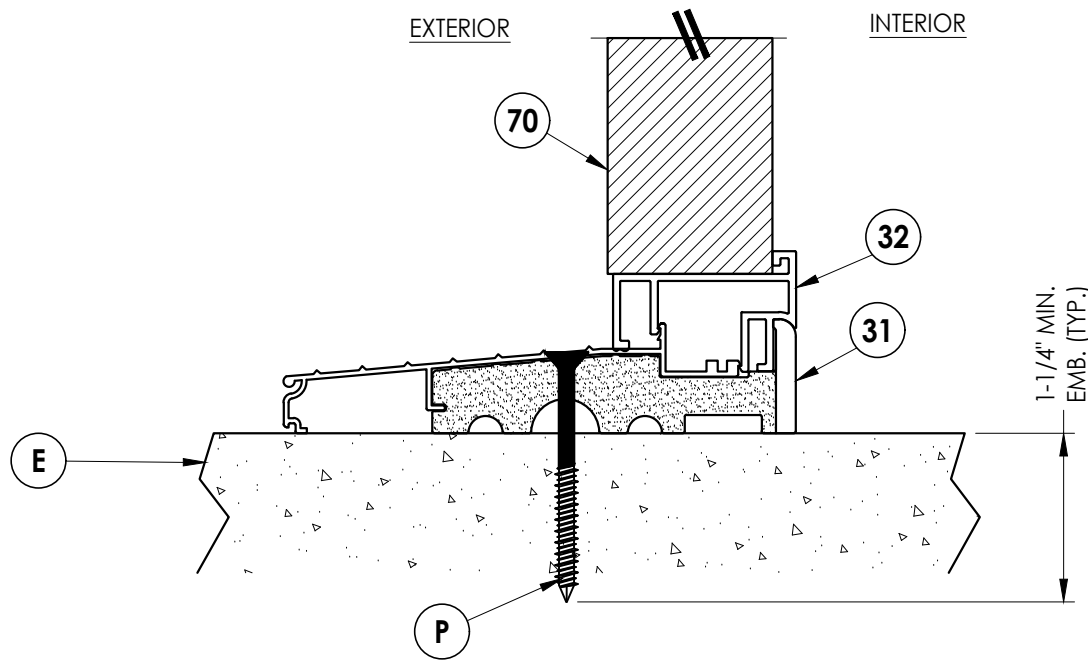
1
9 **VERTICAL CROSS SECTION**
Outswing sill - high dam



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



2
9 **VERTICAL CROSS SECTION**
Inswing sill



4
9 **VERTICAL CROSS SECTION**
Inswing sill

Documents Prepared By:
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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
3	8/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
1	2/04/20	DEFINE MODEL DESCRIPTION RW
		BY

DATE: 12/8/17

SCALE: N.T.S.

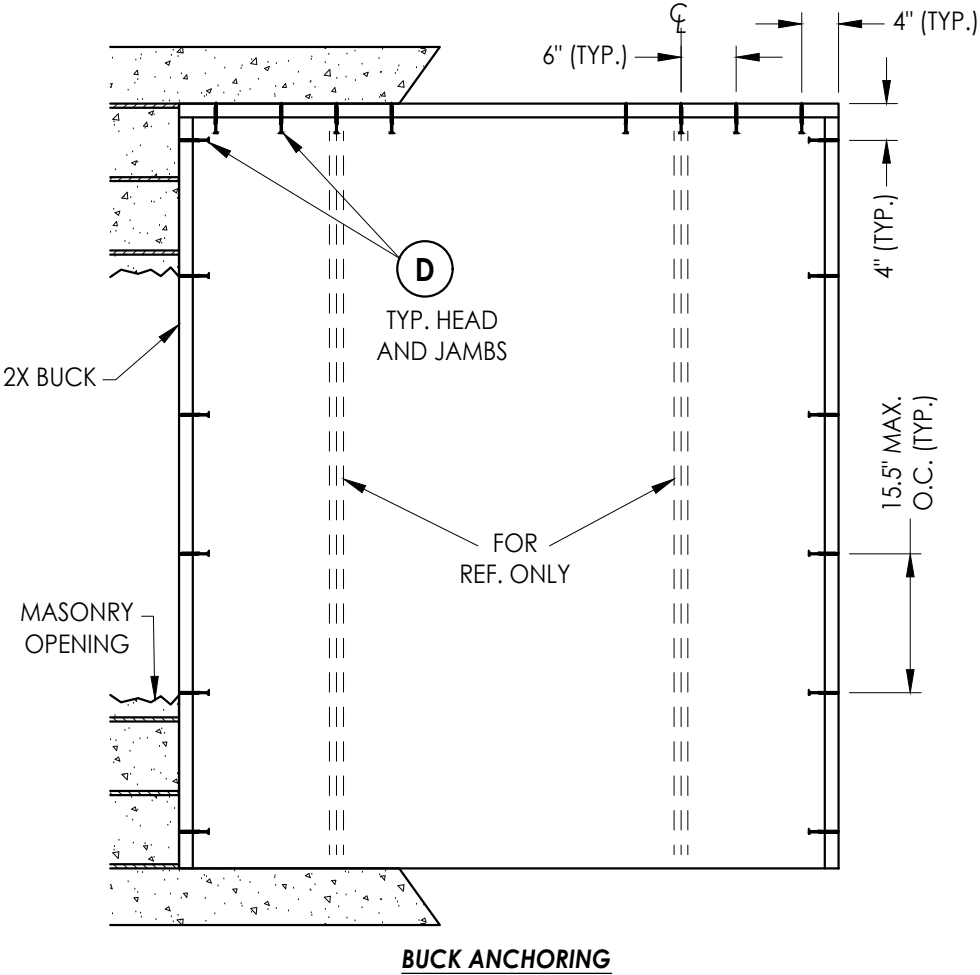
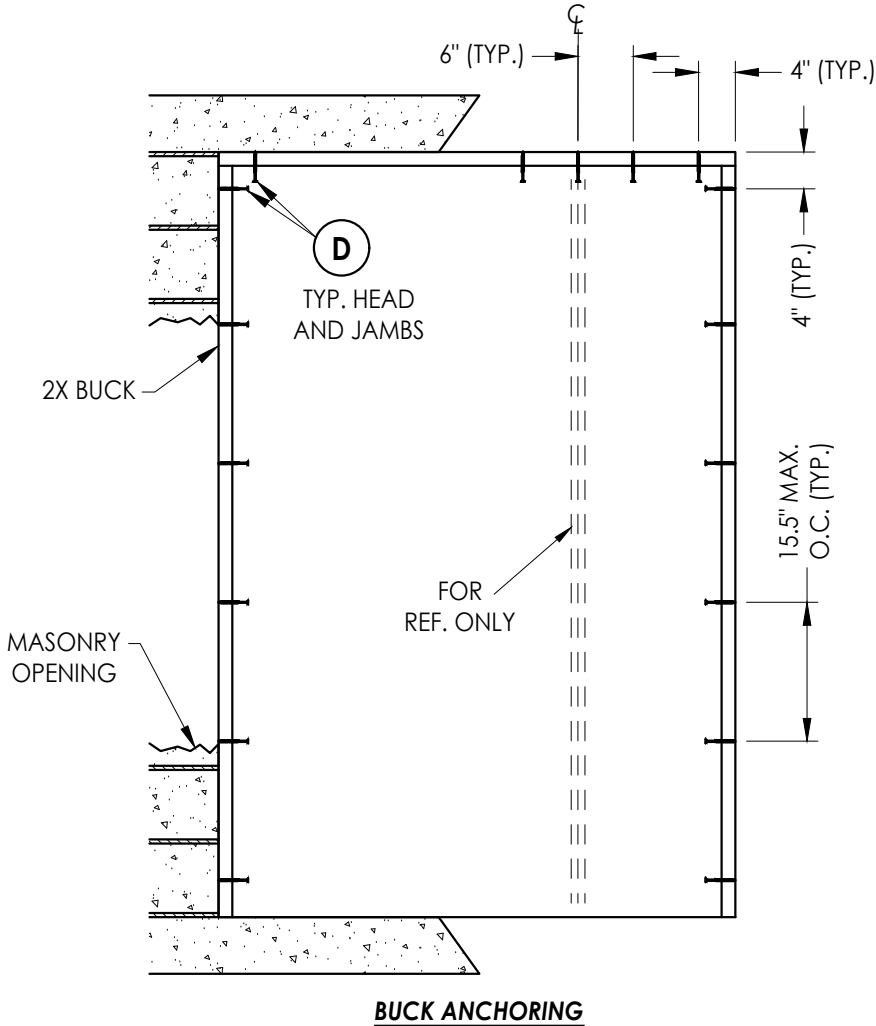
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CHK. BY: LFS

DRAWING NO.:

FL-25575.2

SHEET 9 OF 13



DATE:	12/8/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-25575.2
SHEET	10 OF 13

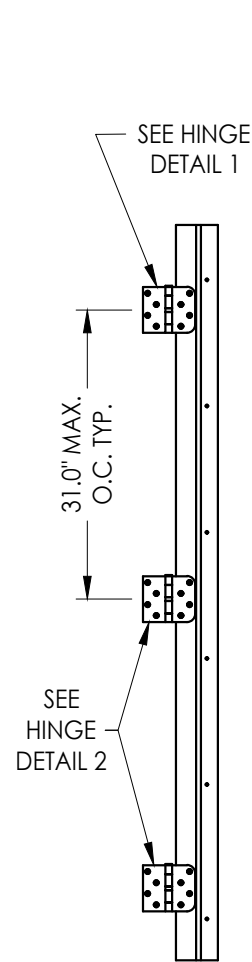
NO.	DATE	REVISIONS
3	8/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
1	2/04/20	DEFINE MODEL DESCRIPTION RW

PRODUCT:	TRINITY GLASS INT'L
PART OR ASSEMBLY:	BUCK ANCHORING

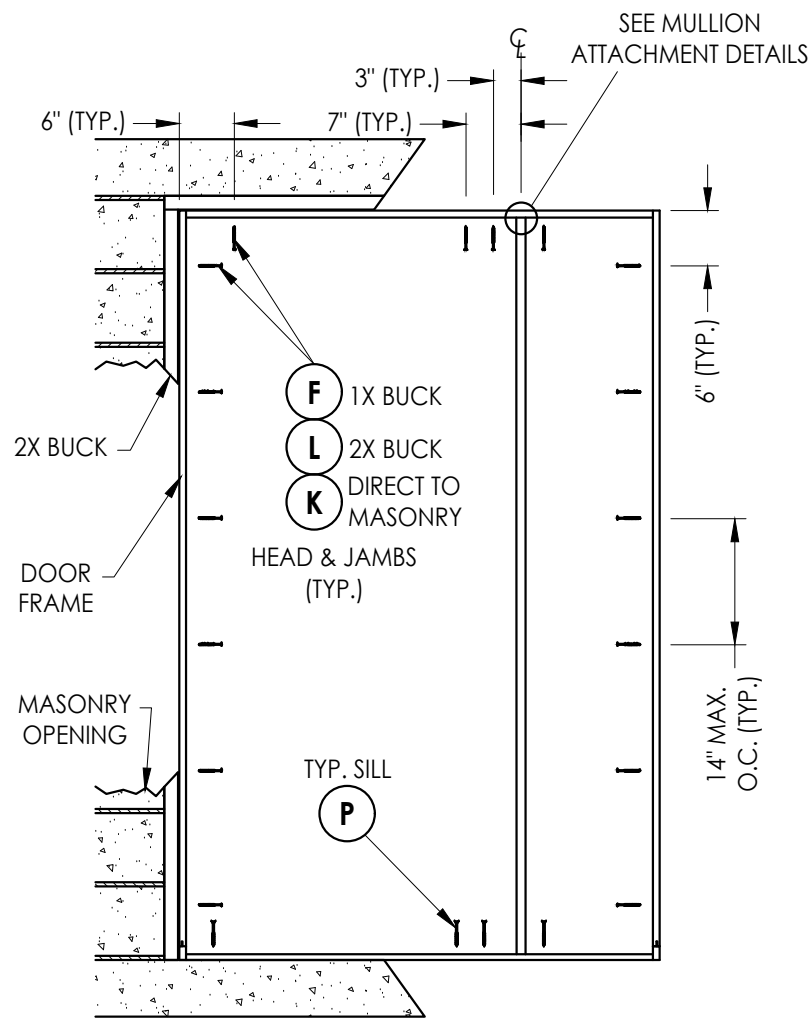
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
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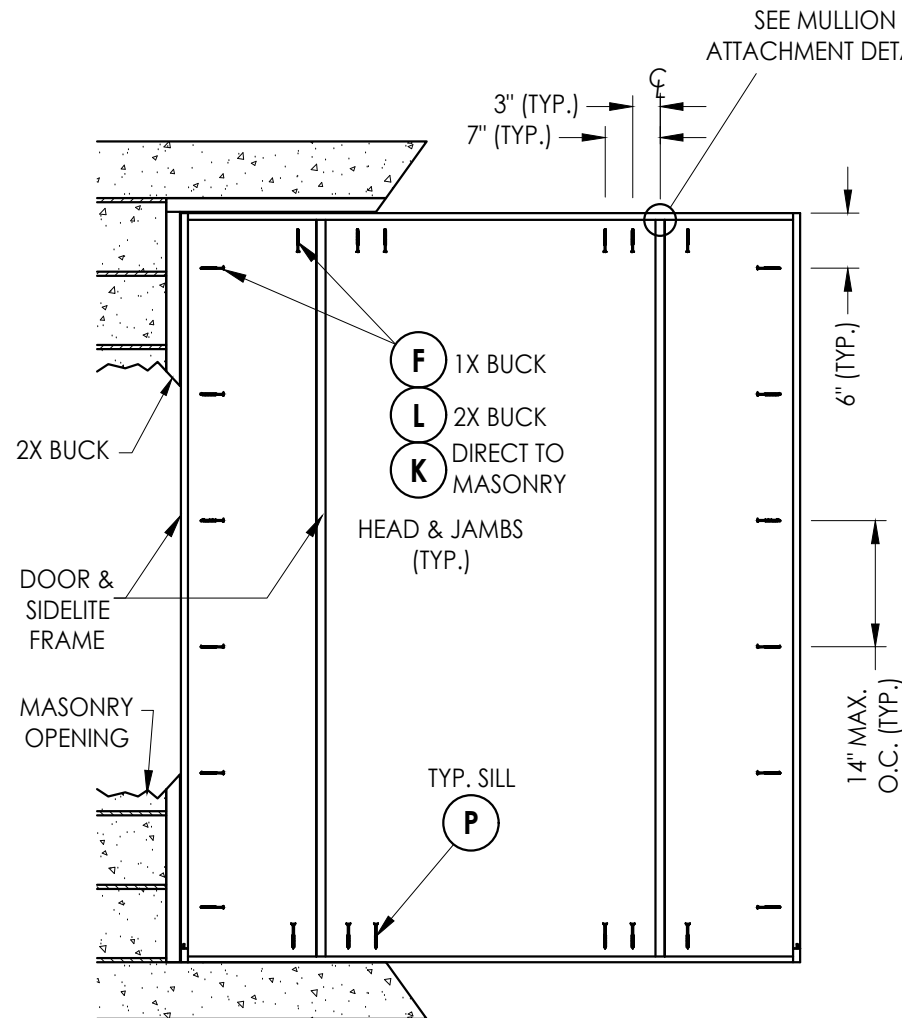
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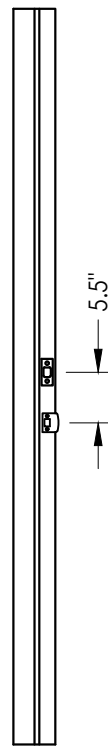
HINGE JAMB



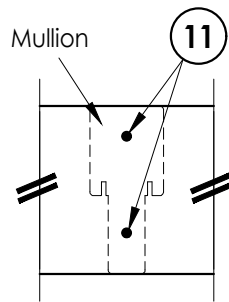
FRAME ANCHORING
Masonry construction



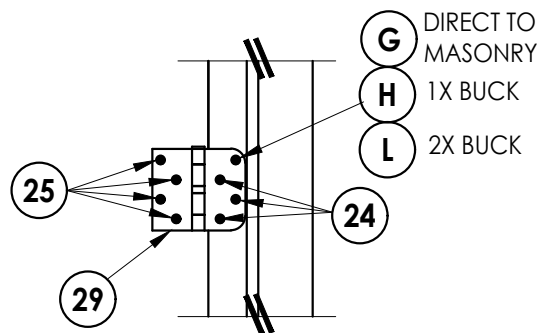
FRAME ANCHORING
Masonry construction



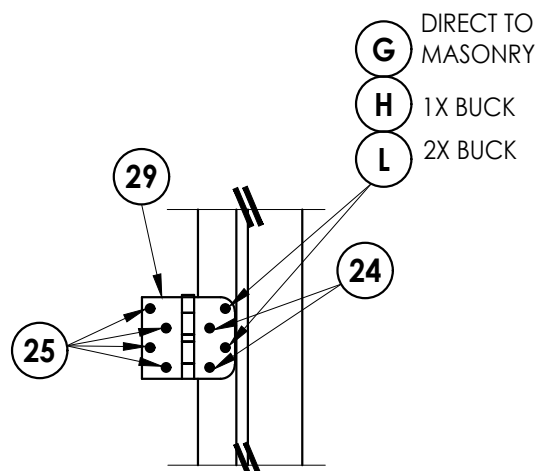
STRIKE JAMB



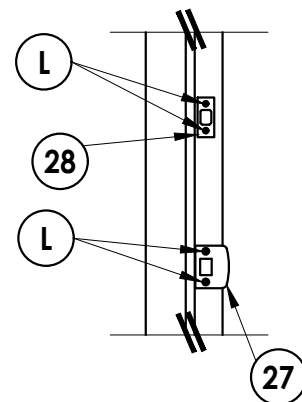
MULLION ATTACHMENT DETAILS
Required at the head and sill



HINGE DETAIL 2



HINGE DETAIL 1



STRIKE PLATE DETAIL

Documents Prepared By:
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P.E. No. 43409

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PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY:

FRAME ANCHORING

NO.	DATE	REVISIONS
3	8/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
1	2/04/20	DEFINE MODEL DESCRIPTION RW

DATE: 12/8/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-25575.2

SHEET 11 OF 13

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	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 3-1/4" 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	STEEL
P	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	JAMB (FINGER-JOINT PINE - SG >= 0.42)	WOOD
1A	HEAD & JAMB (5.25") (FINGER-JOINT PINE - SG >= 0.42)	WOOD
2	JAMB	PVC
3	INTEGRAL MULLION - FINGER JOINT PINE (SG >= 0.42)	WOOD
4	INTEGRAL MULLION	PVC
5	MULLION BASE KIT	PVC
7	WEATHERSTRIP QEBD650 Q-LON	FOAM
8	DOOR BOTTOM SWEEP	PVC
9	#6 X 1-1/4 PFH DRYWALL SCREW	STEEL
11	#9 X 2-1/4" PFH SMS	STEEL
19	SILLKEY	ABS
24	#9 X 5/8" PFH WS	STEEL
25	#9 X 1" PFH WS	STEEL
26	#9 X 2" PFH WS	STEEL
27	STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	3.983" X 4.0" HINGE MIN 0.098" THICK	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 - (LIGHTHOUSE)	-
62	QUARTER ROUND	WOOD
70	SIDELITE	-

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 BUILDDEX 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.

[illegible]