

PLY GEM WINDOWS *SERIES 1500 FIXED WINDOW (IMPACT)*

NOTES:

1. THIS INSTALLATION HAS BEEN EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE OUTSIDE THE HVHZ, AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES DO NOT EXCEED THE DESIGN PRESSURE RATINGS HEREIN.
2. THIS PRODUCT IS MISSILE LEVEL D, WIND ZONE 3 IMPACT RESISTANT. WHEN USED IN WIND ZONE 3 OR BELOW AREAS, THIS PRODUCT DOES NOT REQUIRE THE USE OF APPROVED IMPACT PROTECTIVE DEVICES (SHUTTERS).
3. ANCHOR TYPE, SIZE, SPACING, EMBEDMENT, AND EDGE DISTANCE SHALL BE AS SPECIFIED IN THESE DRAWINGS. USE APPROPRIATE ANCHORAGE FROM TABLE I ACCORDING TO SUBSTRATE TYPE. A MINIMUM CENTER-TO-CENTER SPACING OF 3" SHALL BE MAINTAINED BETWEEN ALL INSTALLATION FASTENERS IN ANY DIRECTION.
4. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR MASONRY OPENINGS WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, AND INTO MASONRY SUBSTRATE. WOOD BUCKS WITH MASONRY ARE OPTIONAL.
5. WOOD, METAL, OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED BY OTHERS TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVED THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR AUTHORITY HAVING JURISDICTION (AHJ).
6. IT IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AHJ TO SELECT PLY GEM PRODUCTS TO MEET ALL APPLICABLE LOCAL LAWS, BUILDING CODES, ORDINANCES, OR OTHER SAFETY REQUIREMENTS FOR EACH INSTALLATION.
7. SHIMS ARE REQUIRED WHERE GAPS OF GREATER THAN 1/16" EXIST BETWEEN OPENING AND FRAME. MAX. SHIM STACK IS 1/4". SHIMS SHALL BE LOAD-BEARING AND CAPABLE OF TRANSFERRING LOADS TO THE SUBSTRATE.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS USING ASTM E 2112 AND IS NOT ADDRESSED BY THIS DOCUMENT.
9. INSTALLED GLAZING SHALL COMPLY WITH ASTM E 1300.
10. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS. ANY DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH CODE REQUIREMENTS.
11. A WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
12. PRODUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN TEST REPORTS NATIONAL CERTIFIED TESTING LABORATORIES I10-I56I5-I AND I10-2I233-I.
13. DESIGNATION "O" IS FOR FIXED PANEL.
14. USE A BACKER ROD ON ALL JOINTS >3/4" DEEP AND/OR WIDER THAN 1/4". FINISHED CAULK JOINT SHOULD BE A MINIMUM OF 3/8" DEEP.

SIZE CHART					
OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE	GLAZING DETAIL	MISSILE IMPACT RATING
WIDTH	HEIGHT				
60"	71-15/16"	LC-PG50	+50/-60 PSF	1	SMALL & LARGE MISSILE IMPACT
92"	46"				
48"	80"	LC-PG50	+50/-50 PSF	2	

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4	HORIZONTAL SECTIONS

Lucas Turner

2026.04.02

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TABLE I: INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DISTANCE
FIN INSTALLATION				
A	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	#8 WOOD SCREW	1-1/2"	7/16"
B	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10-I6 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	7/16"
FRAME OR CLIP INSTALLATION				
C	CONCRETE (2 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"
D	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
E	2X MIN. SOUTHERN PINE WOOD (G=0.55)	3/16" ITW TAPCON	1-3/8"	7/8"
F	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
G	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10-I6 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"

NOTE: ALL SCREWS AND TAPCONS SHALL HAVE MOD. TRUSS, PAN, OR HEX WASHER HEAD, 0.42" MIN. HEAD OR WASHER DIAMETER FOR FIN ANCHORS, 0.355" MIN. HEAD OR WASHER DIAMETER FOR FRAME ANCHORS.



Ply Gem®

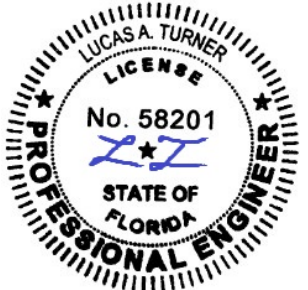
WINDOWS & DOORS

Part of the Cornerstone Building Brands Family

433 N. MAIN ST.,
PO BOX 559,
ROCKY MOUNT, VA 24151

PH: 540-484-6348
FX: 540-484-6683

DATE: 12.05.12		TITLE: SERIES 1500 FIXED WINDOW INSTALLATION AND GENERAL NOTES			
DWN BY: JLA		NO.	REVISION DESCRIPTION	BY	DATE
CHK BY:		B	ADDED NOTES & TABLE I	LMH	12.09.17
		C	UPDATED SIZE CHART PER EC 18-104	LMH	03.27.19
SCALE:		D	UPDATED FOR 7TH EDITION 2020 FBC	LMH	12.16.20
NTS		E	UPDATED TO CURRENT FBC	LMH	03.06.26



03/06/2026

LUCAS A. TURNER, P.E.

FL PE # 58201

TURNER ENGINEERING &
CONSULTING, INC.

(COA # 29779)

2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320

PH. 941-380-1574

FL#: 16104

DWG #: PGWI79

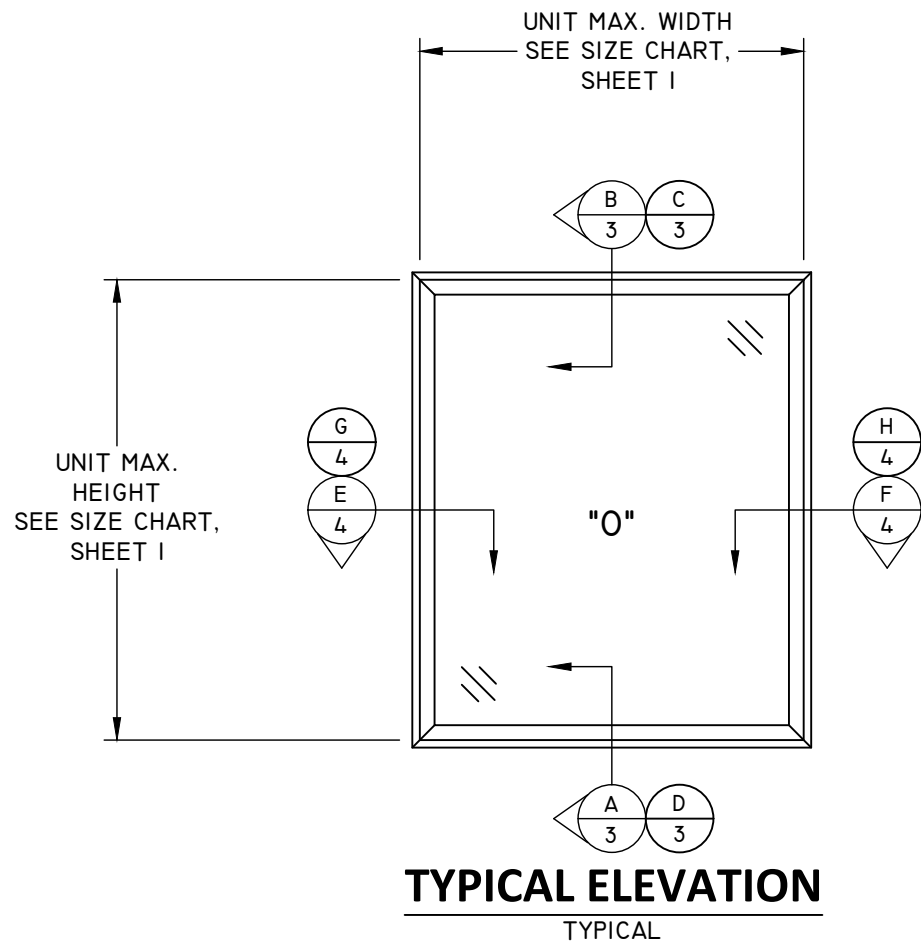
SHEET: 1 OF 4

TITLE: SERIES 1500 FIXED WINDOW ELEVATIONS & ANCHOR SCHEDULE	DATE	BY	REVISION DESCRIPTION		ADDED NOTES & TABLE I	UPDATED SIZE CHART PER EC 18-104	UPDATED FOR 7TH EDITION 2020 FBC	UPDATED TO CURRENT FBC
	12.05.12	JLA	B	C	D	E		
	DWN BY:	CHK BY:	SCALE:		NTS			

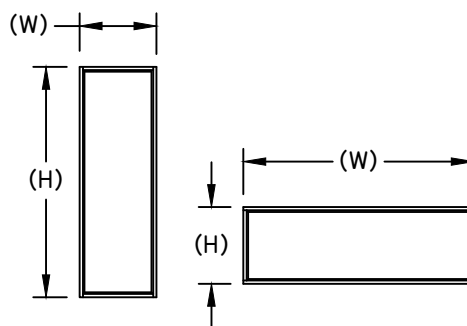


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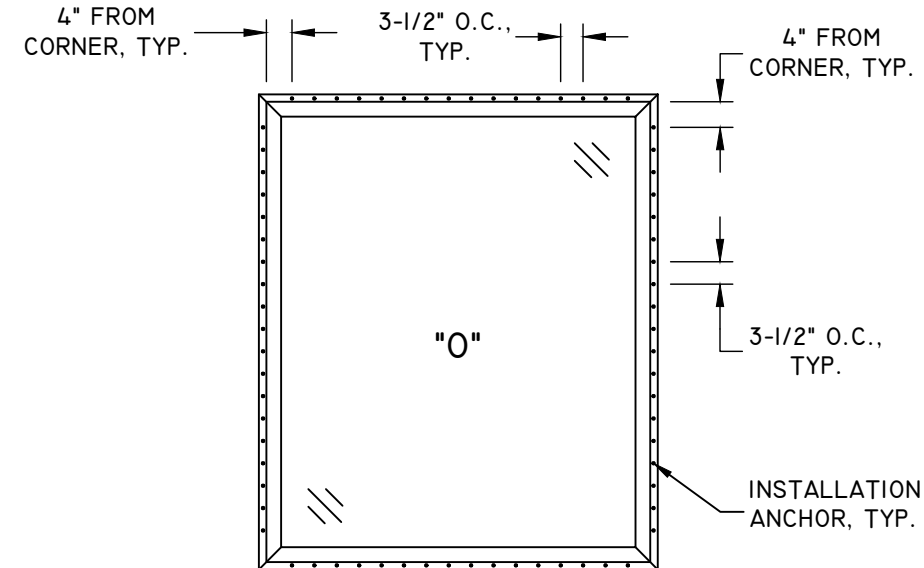
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DWG #:	PGWI79
SHEET:	2 OF 4



NOTE:
USE OF EITHER BRICKMOULD OR BEVELED
FRAME TYPES IS QUALIFIED UNDER THIS
APPROVAL TO THE SIZES AND
PERFORMANCE LIMITS LISTED HEREIN.

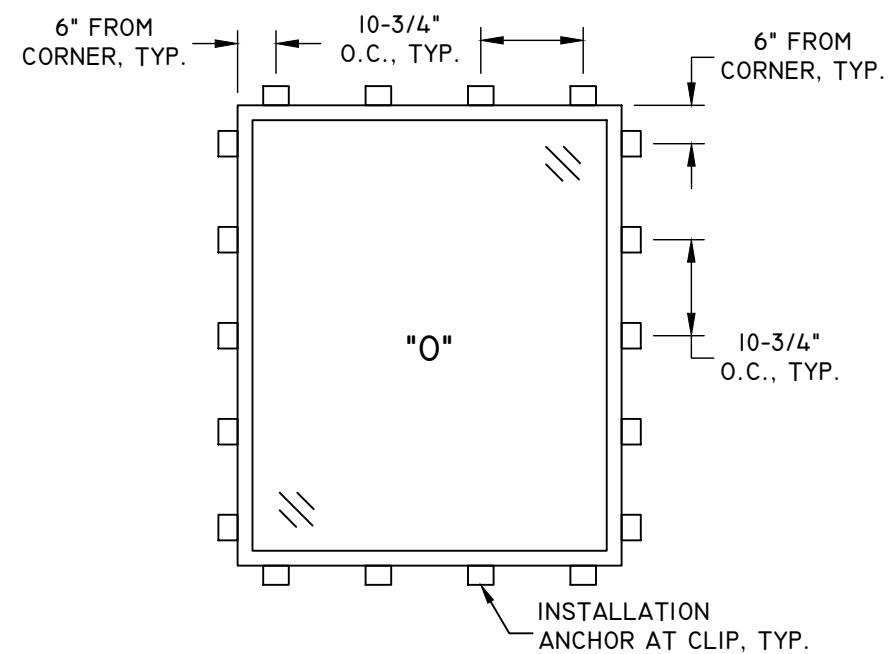


NOTE:
WINDOW WIDTH (W) AND HEIGHT
(H) ARE INTERCHANGEABLE FOR ALL
SIZES SHOWN HEREIN NOT TO EXCEED
MAXIMUM TESTED SQUARE FOOT AREA.



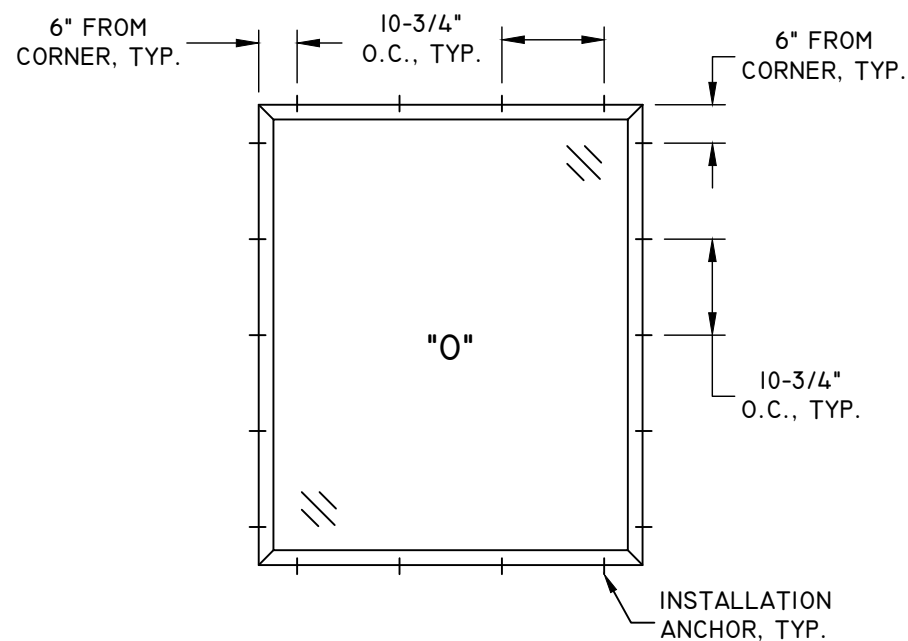
ANCHOR LAYOUT

FIN INSTALLATION



ANCHOR LAYOUT

CLIP INSTALLATION



ANCHOR LAYOUT

FRAME INSTALLATION

TITLE: SERIES 1500 FIXED WINDOW VERTICAL SECTIONS & GLAZING DETAIL	DATE	BY	REVISION DESCRIPTION	NO.
	12.05.12	JLA		B
			ADDED NOTES & TABLE I	C
			UPDATED SIZE CHART PER EC 18-104	D
			UPDATED FOR 7TH EDITION 2020 FBC	E

DATE:	DWN BY:	CHK BY:	SCALE:
12.05.12	JLA		NTS

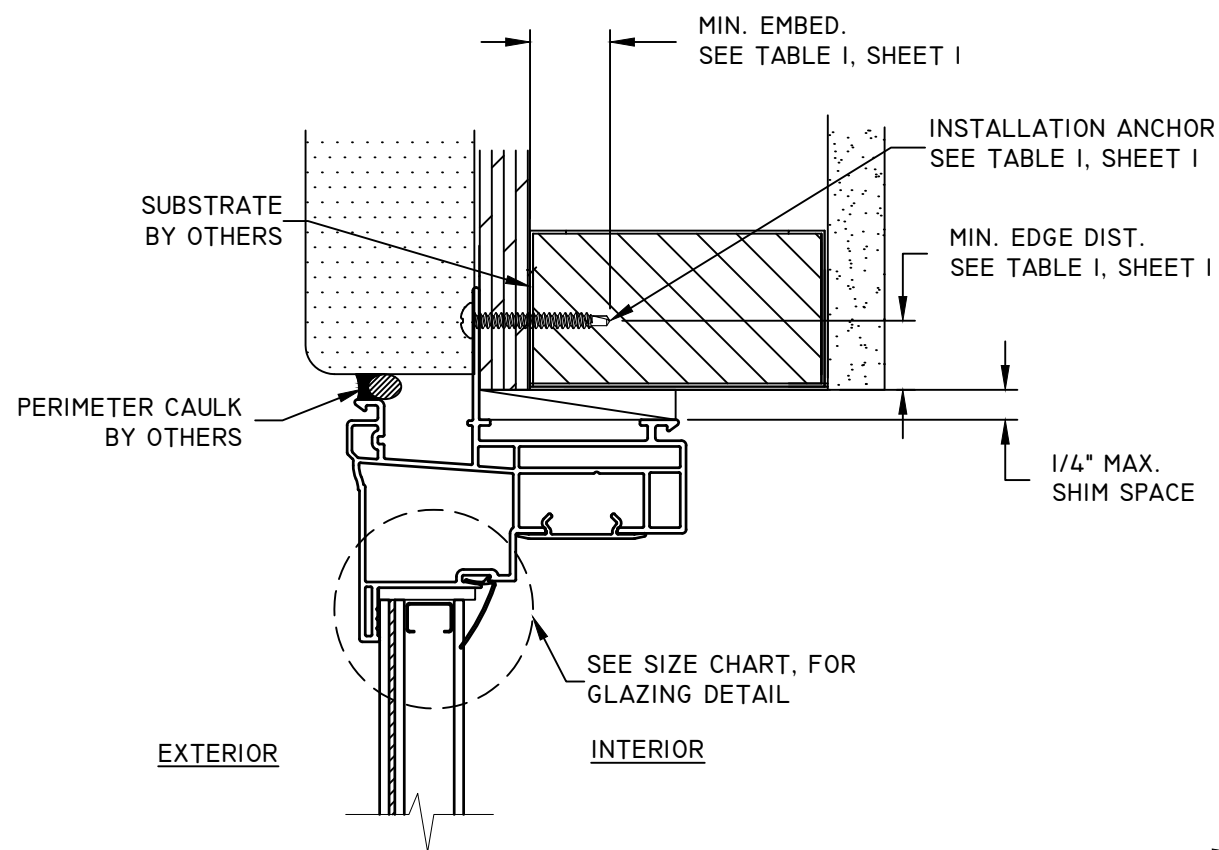


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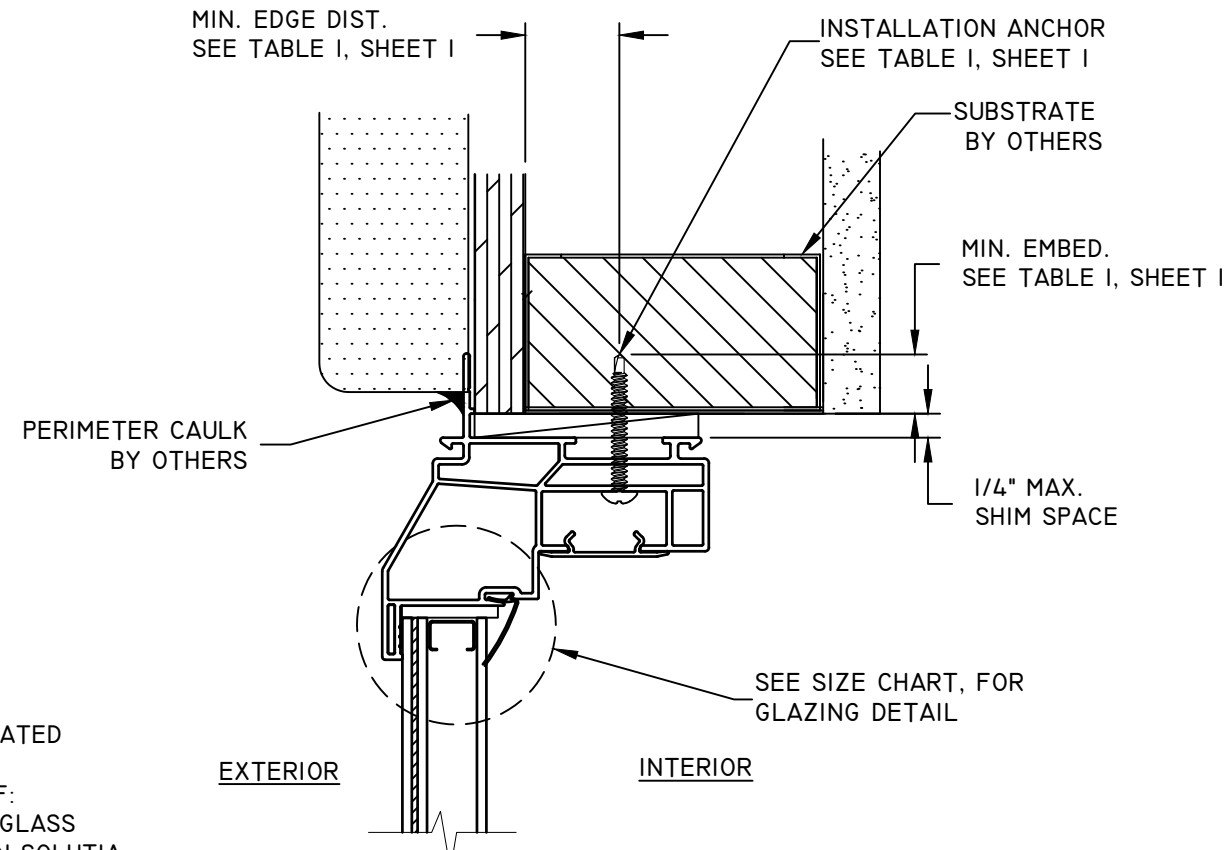
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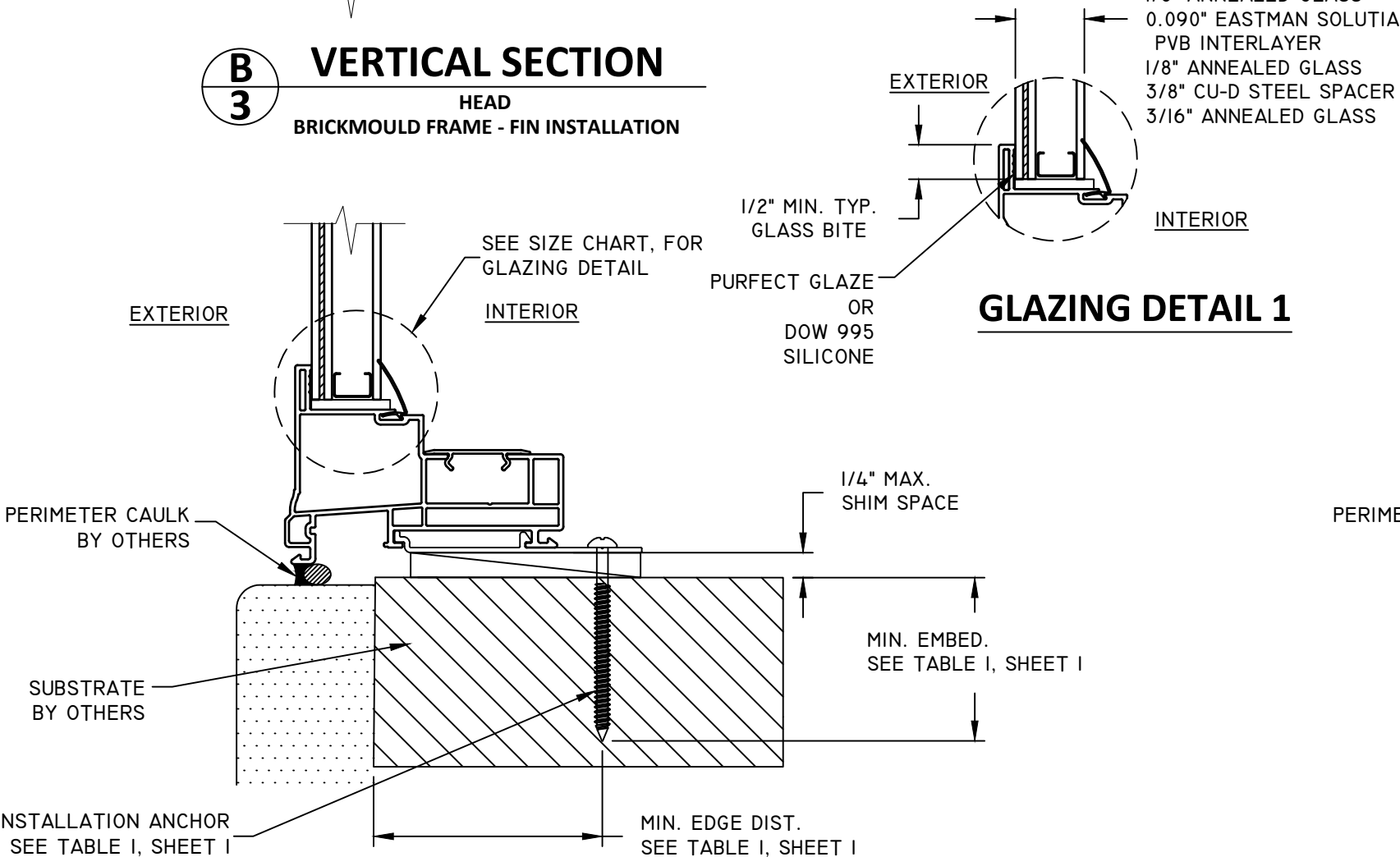
SHEET: 3 OF 4



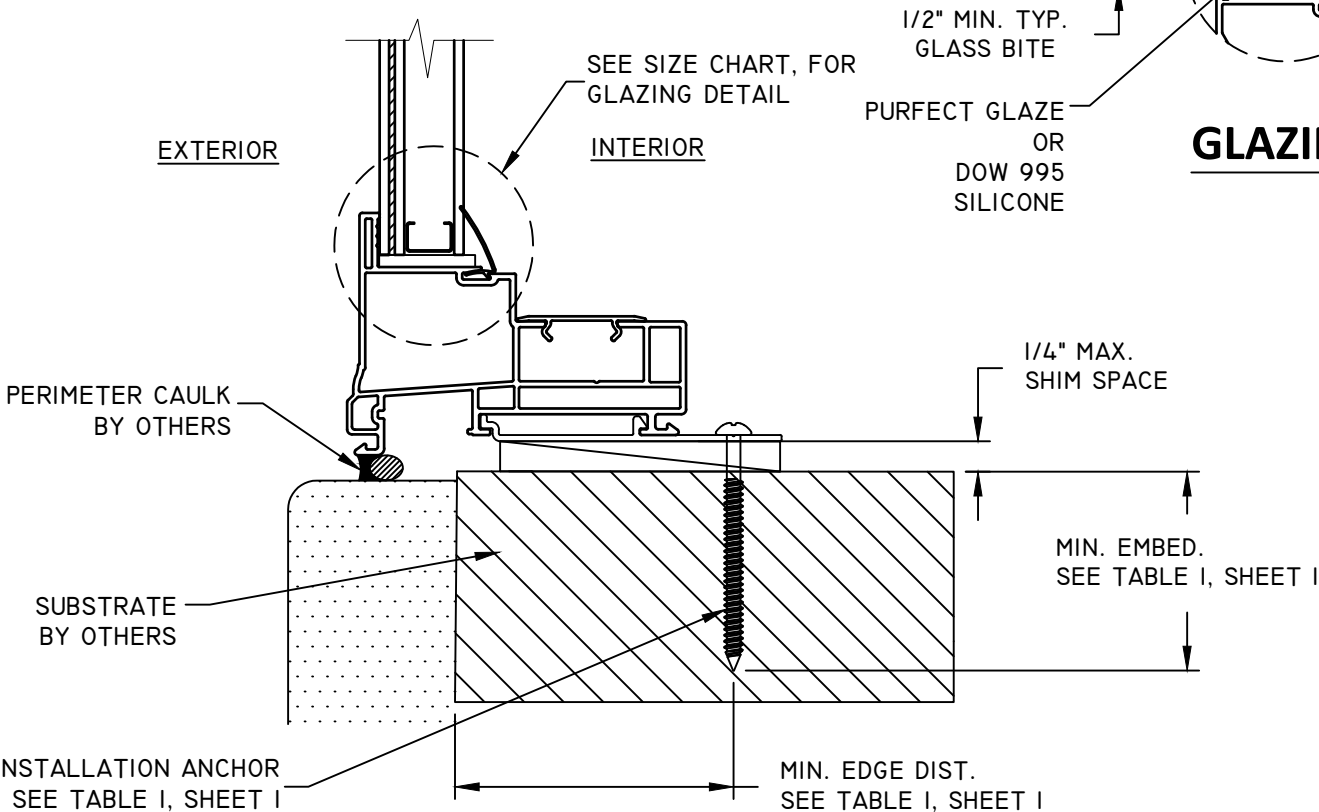
B
3
VERTICAL SECTION
HEAD
BRICKMOULD FRAME - FIN INSTALLATION



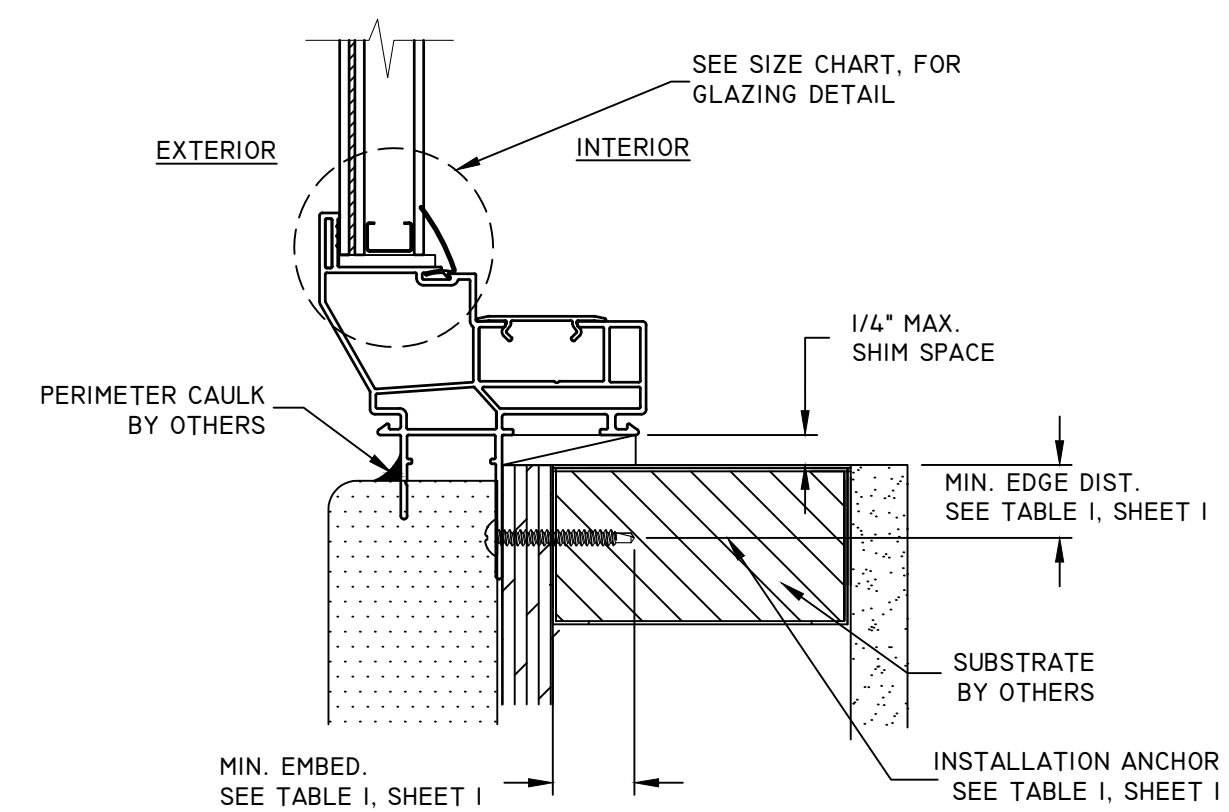
C
3
VERTICAL SECTION
HEAD
BEVELED FRAME - FRAME INSTALLATION



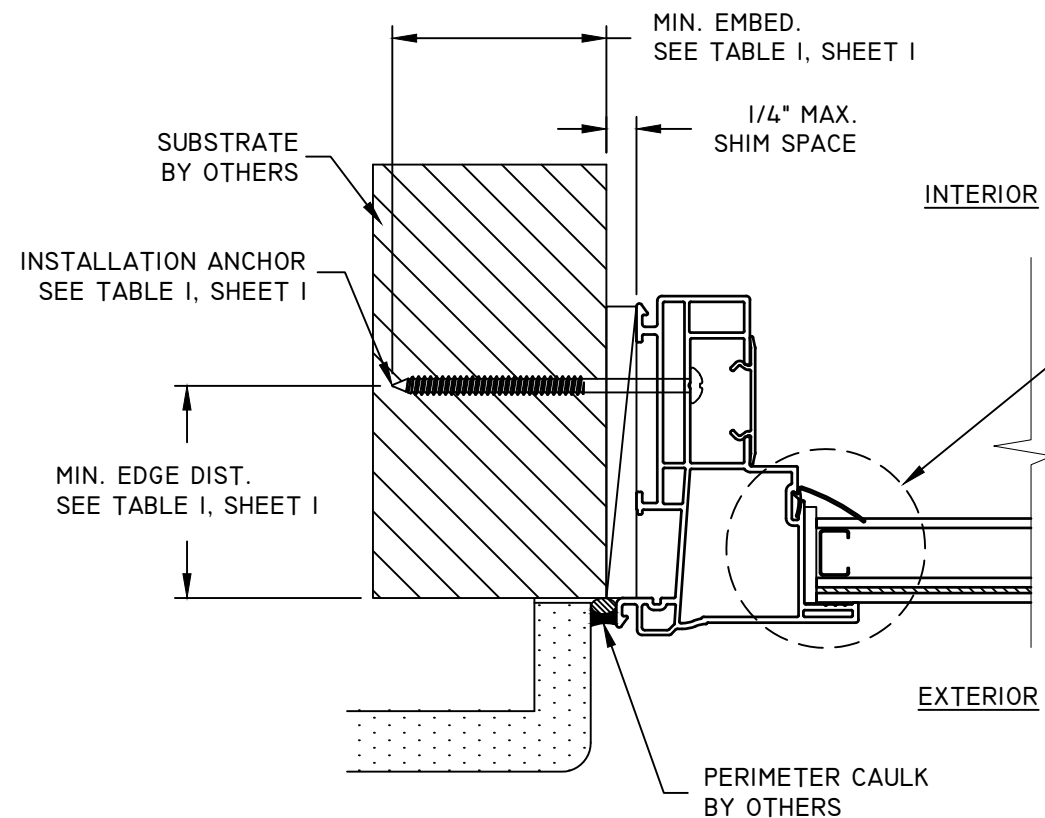
GLAZING DETAIL 1



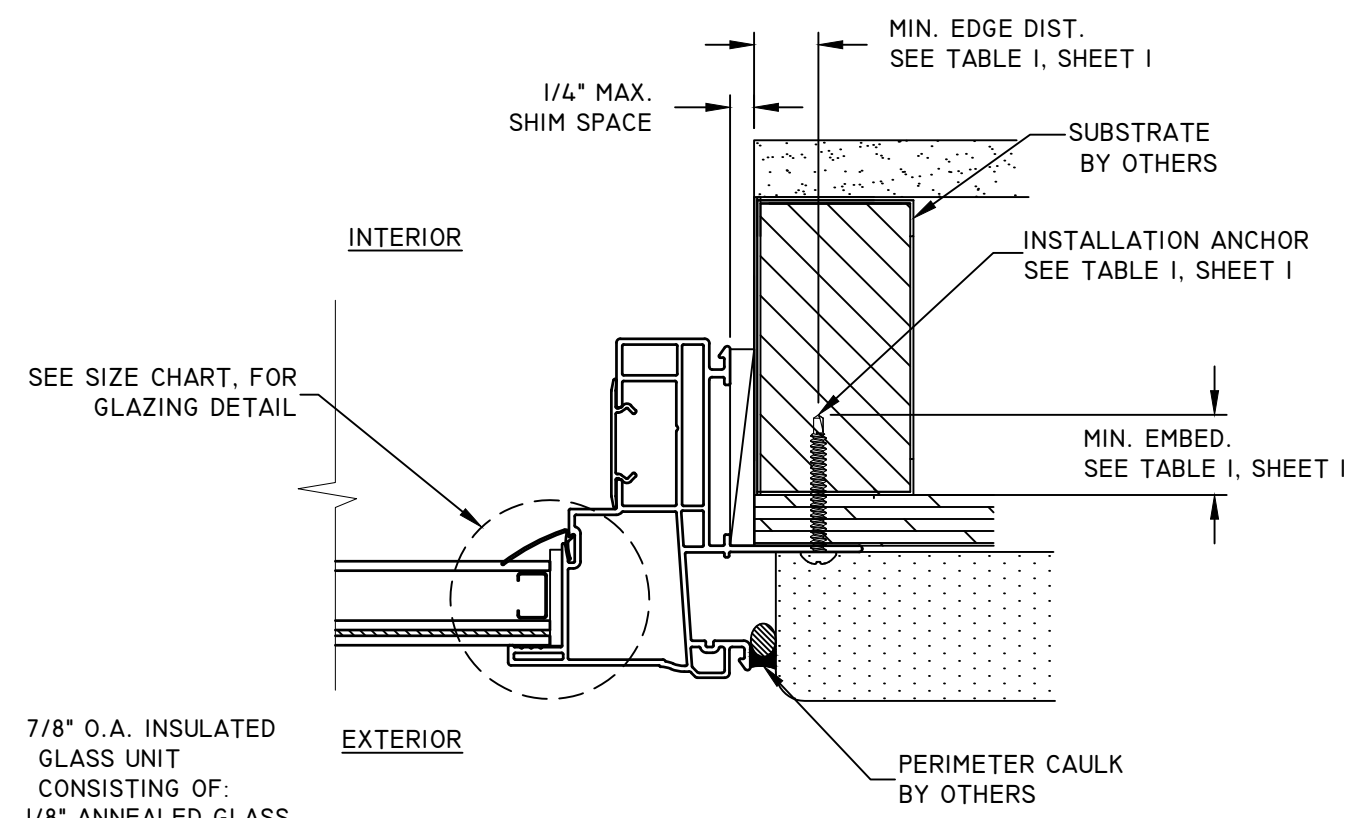
A
3
VERTICAL SECTION
SILL
BRICKMOULD FRAME - CLIP INSTALLATION



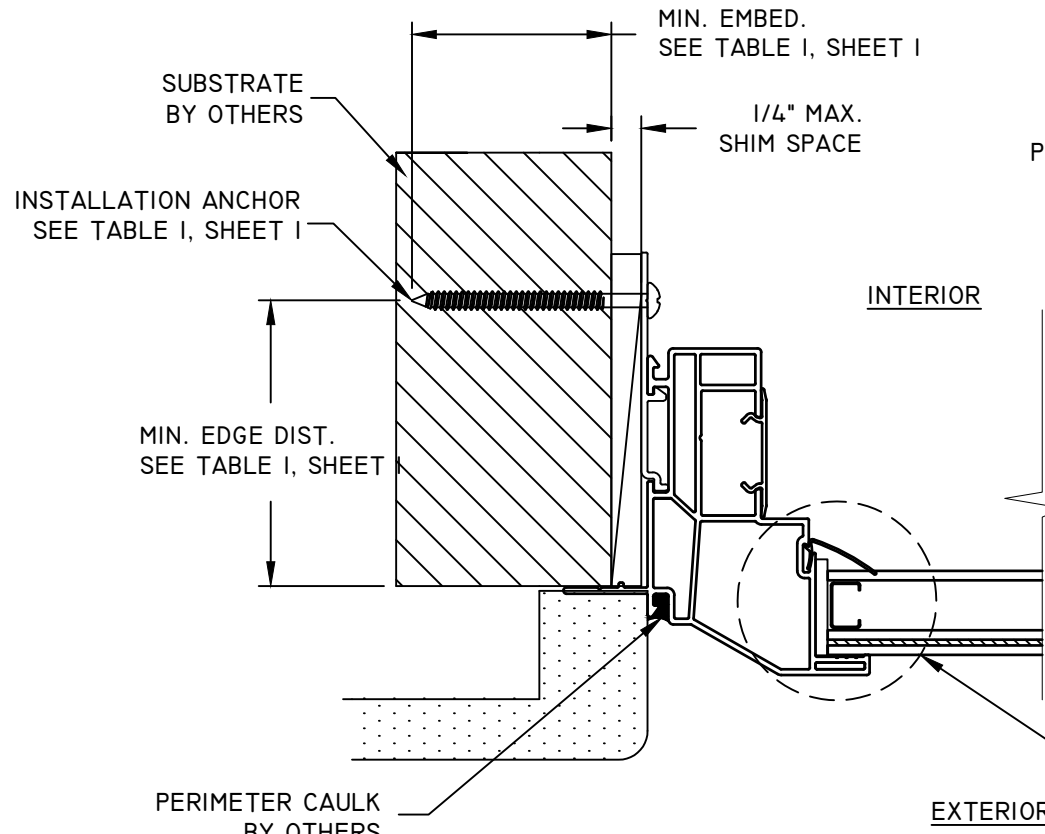
D
3
VERTICAL SECTION
SILL - STEEL STUD
BEVELED FRAME - FIN INSTALLATION



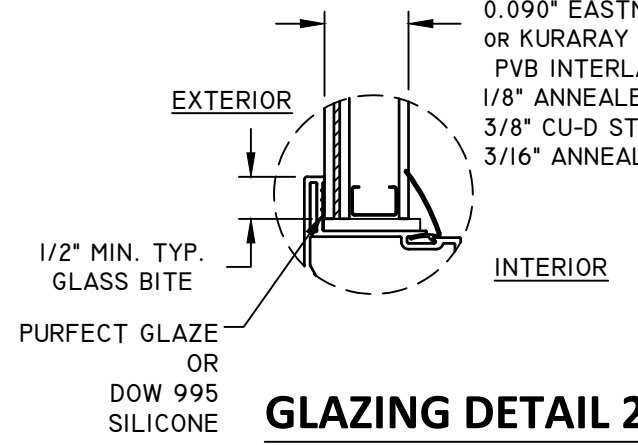
**E
4** **HORIZONTAL SECTION**
JAMB
BRICKMOULD FRAME - FRAME INSTALLATION



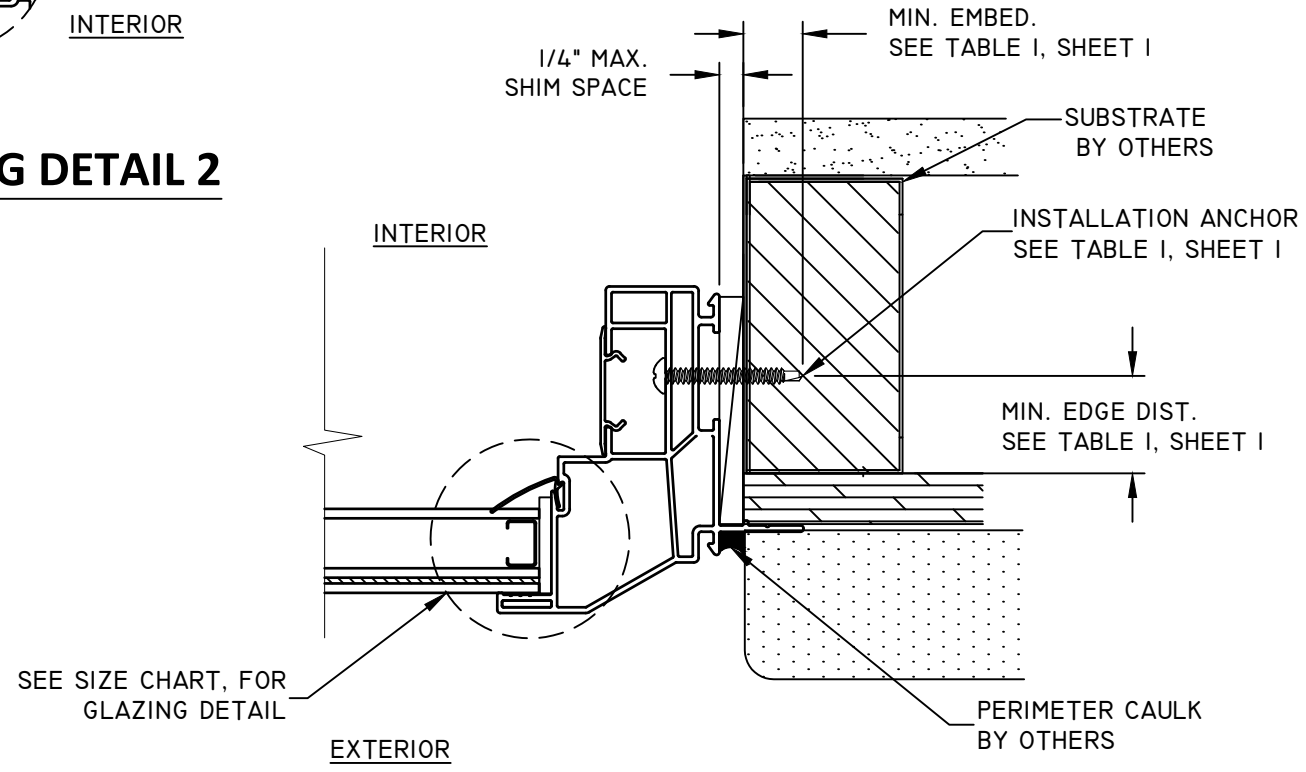
**F
4** **HORIZONTAL SECTION**
JAMB
BRICKMOULD FRAME - FIN INSTALLATION



**G
4** **HORIZONTAL SECTION**
JAMB
BEVELED FRAME - CLIP INSTALLATION

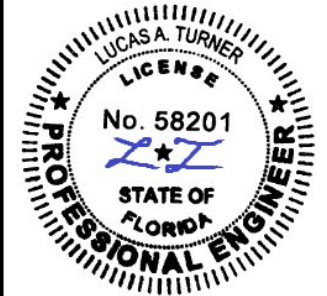


GLAZING DETAIL 2



**H
4** **HORIZONTAL SECTION**
JAMB
BEVELED FRAME - FRAME INSTALLATION

TITLE: SERIES 1500 FIXED WINDOW HORIZONTAL SECTIONS	DATE	BY	REVISION DESCRIPTION			
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