

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

NOTES:

- 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.
- WHEN USED IN AREAS REQUIRING IMPACT PROTECTION, THIS PRODUCT REQUIRES THE USE OF APPROVED IMPACT PROTECTIVE DEVICES (SHUTTERS).
- 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.
- 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.
- 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).
- 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.
- 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.
- 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.
- INSTALLED GLAZING SHALL COMPLY WITH ASTM E 1300.
- 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.
- A WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
- PRODUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN TEST REPORTS NATIONAL CERTIFIED TESTING LABORATORIES I10-I5589-I, I10-I5590-I, I10-I5592-I, I10-I5595-I, I10-22291-I, I10-22293-I, I10-22673-I AND MOLIMO ARCHITECTURAL PRODUCT TESTING I668.01-I06-II.
- DESIGNATION "X" IS FOR OPERABLE PANEL AND "O" IS FOR FIXED PANEL.
- 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						
SIZE		REQUIRED GLASS TYPE	PRODUCT RATING	MAX. DESIGN PRESSURE	FRAME TYPE	MISSILE IMPACT RATING
WIDTH	HEIGHT					
48-1/8"	96"	ANNEALED	LC-PG55	+55/-55 PSF	GEO	NON-IMPACT
72"	96"	TEMPERED	CW-PG45	+40/-45 PSF	GEO	
120-1/16"	56"	TEMPERED	LC-PG45	+45/-50 PSF	GEO	
48	96	ANNEALED	LC-PG45	+45/-45 PSF	FW	
56	96	ANNEALED	LC-PG25	+25/-25 PSF	FW	
72	96	ANNEALED	LC-PG45	+45/-45 PSF	FW	
56	120	TEMPERED	LC-PG50	+50/-50 PSF	FW	

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATIONS
3	ANCHOR LAYOUTS
4	FW VERTICAL SECTIONS & GLAZING DETAILS
5	FW HORIZONTAL SECTIONS
6	GEO VERTICAL SECTIONS
7	GEO HORIZONTAL SECTIONS

TABLE I: INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DISTANCE
FIN INSTALLATION				
A	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#8 WOOD SCREW	1-1/2"	3/8"
B	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"
FRAME AND CLIP INSTALLATION				
C	CONCRETE (3.05 KSI MIN.)	3/16" ITW TAPCON	1-3/4"	1-1/8"
D	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	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.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"

*NOTE: ALL SCREWS SHALL HAVE MOD. TRUSS, PAN, OR HEX WASHER HEAD, 0.42" MIN. HEAD OR WASHER DIAMETER. ALL NAILS SHALL HAVE FULL ROUND HEAD (OR USE CAPS/WASHERS), 0.42" MIN. HEAD OR WASHER DIAMETER.



Ply Gem

WINDOWS & DOORS

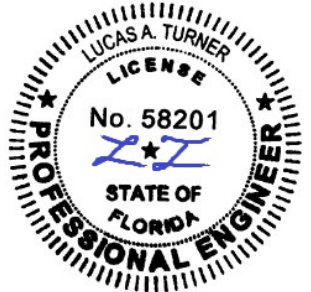
Part of the Cornerstone Building Brands Family

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

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

TITLE: SERIES 1500 FIXED WINDOW INSTALLATION AND GENERAL NOTES	DATE	BY	REVISION DESCRIPTION			
	11.28.12	JLA	5TH EDITION FBC REVISIONS			
	DWN BY:	CHK BY:	ADDED NOTES & TABLE I			
	11.28.12	JLA	UPDATED FOR 7TH EDITION 2020 FBC			
DATE:		DWN BY:		CHK BY:		SCALE:
11.28.12		JLA		CHK BY:		NTS

Lucas
Turner
2026.04.0
2
11:13:10
-05'00'

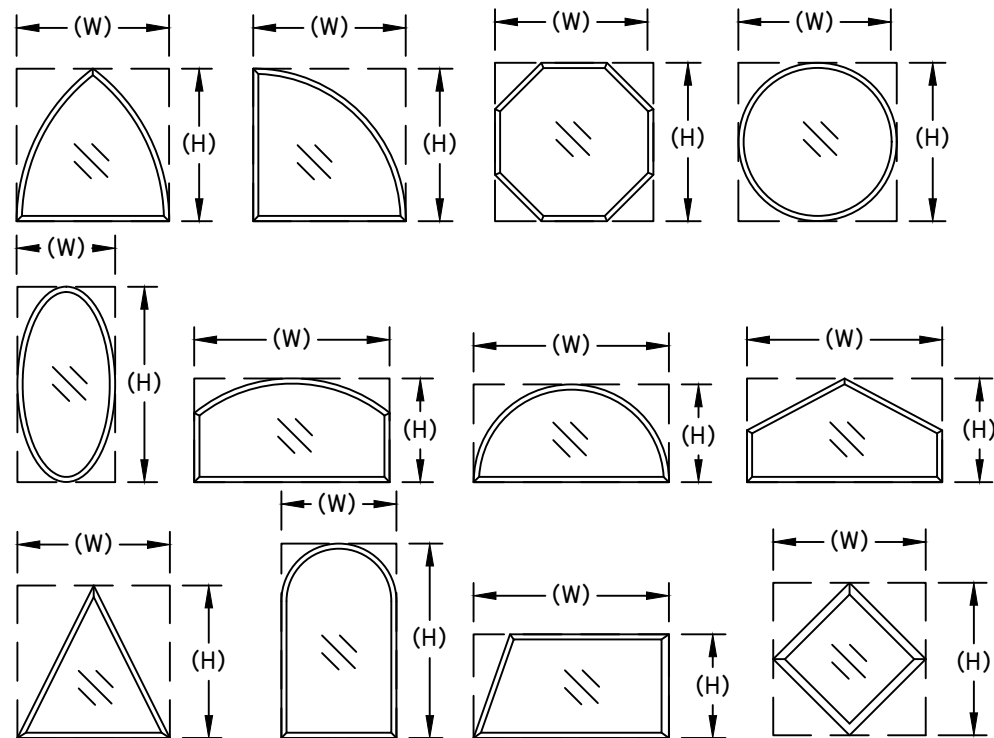
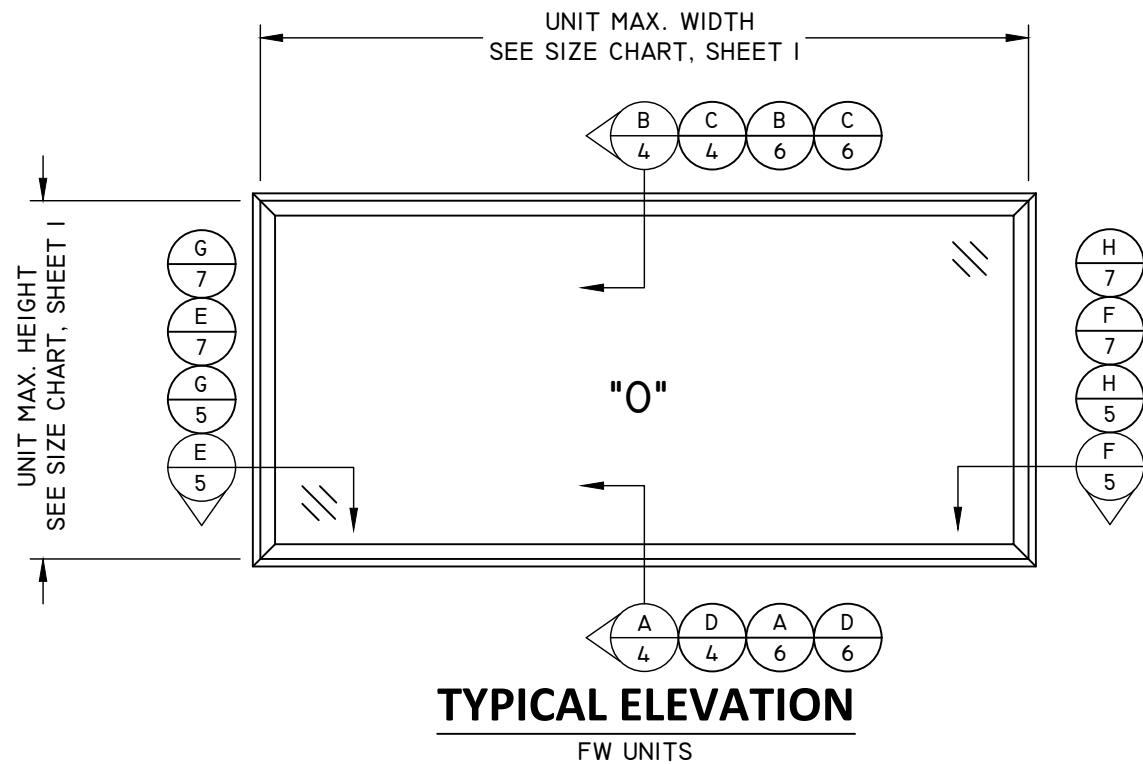


03/06/2026
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NACHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

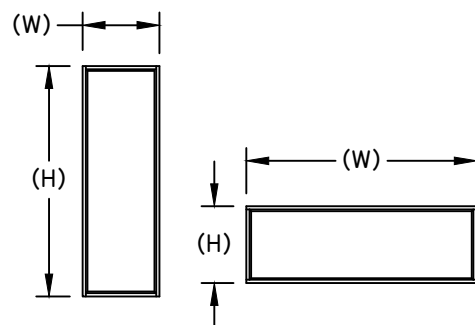
FL#: 16104

DWG #: PGWI77

SHEET: 1 OF 7



ALL GEO SHAPED UNITS SHALL FIT WITHIN THE RECTANGULAR AREAS AS SHOWN IN DESIGN PRESSURE TABLE ON SHEET I.



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

TITLE: SERIES I500 FIXED WINDOW ELEVATION / ANCHOR SCHEDULE		DATE	BY	DATE
		11.28.12	LS	09.08.16
		DWN BY: JLA	LMH	12.09.17
		CHK BY:	LMH	12.10.20
REVISION DESCRIPTION		NO.	DATE	
5TH EDITION FBC REVISIONS		A	03.06.26	
ADDED NOTES & TABLE I		B		
UPDATED FOR 7TH EDITION 2020 FBC		C		
UPDATED TO CURRENT FBC		D		



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 #: PGWI77

SHEET: 2 OF 7

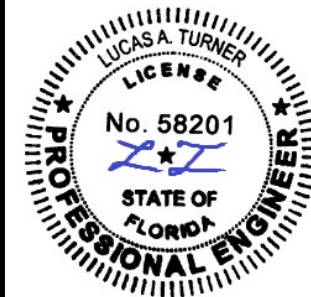
03/06/2026
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

SHEET: 3 OF 7



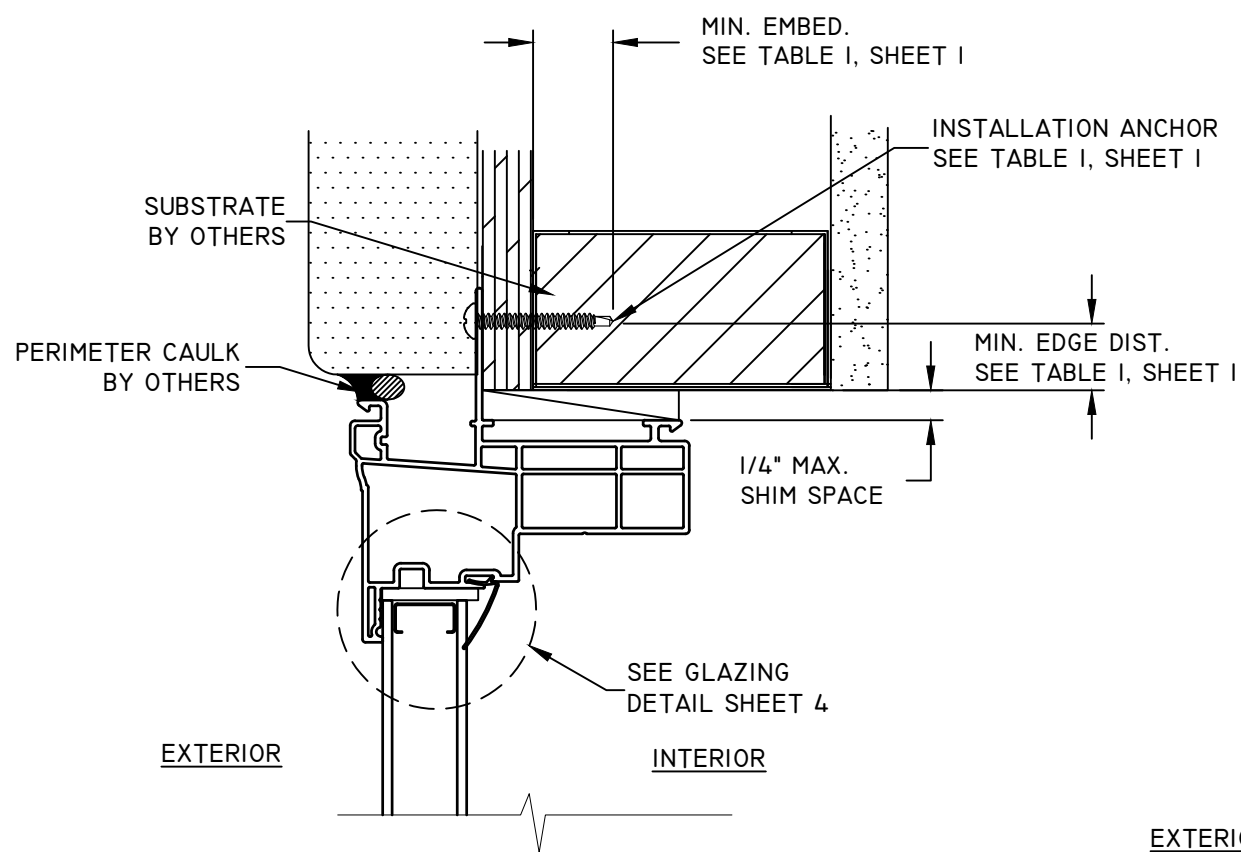
NOTE:
USE OF EITHER BRICKMOULD OR BEVELED FRAME TYPES IS QUALIFIED
UNDER THIS APPROVAL TO THE SIZES AND PERFORMANCE LIMITS LISTED
HEREIN.

TITLE: SERIES 1500 FIXED WINDOW VERTICAL SECTIONS & GLAZING DETAIL	DATE	BY	REVISION DESCRIPTION	NO.
	11.28.12	JLA	5TH EDITION FBC REVISIONS	A
	DWN BY:	LS	ADDED NOTES & TABLE I	B
	CHK BY:	LMH	UPDATED FOR 7TH EDITION 2020 FBC	C
	SCALE:	LMH	UPDATED TO CURRENT FBC	D
		DATE	BY	REVISION DESCRIPTION
		09.08.16	LS	5TH EDITION FBC REVISIONS
		12.09.17	LMH	ADDED NOTES & TABLE I
		12.10.20	LMH	UPDATED FOR 7TH EDITION 2020 FBC
		03.06.26	LMH	UPDATED TO CURRENT FBC

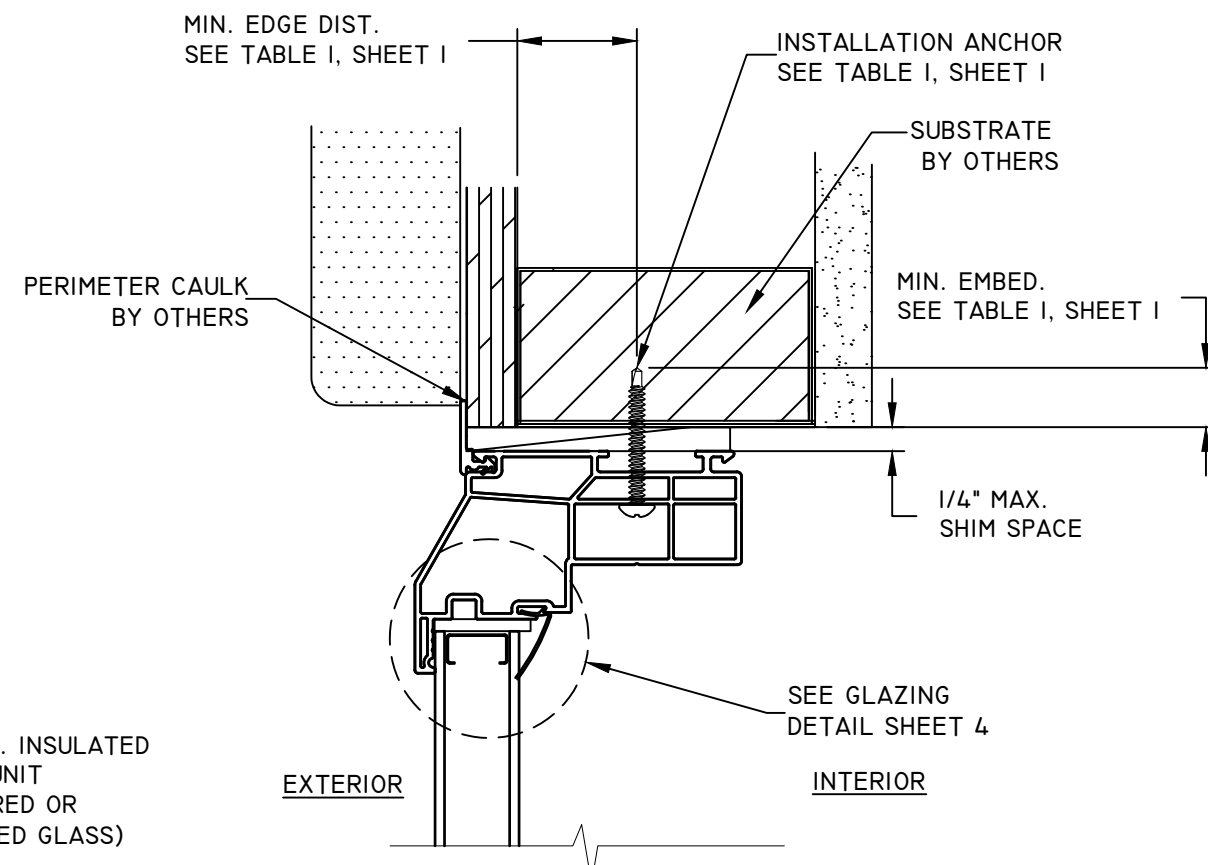


03/06/2026
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NACHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

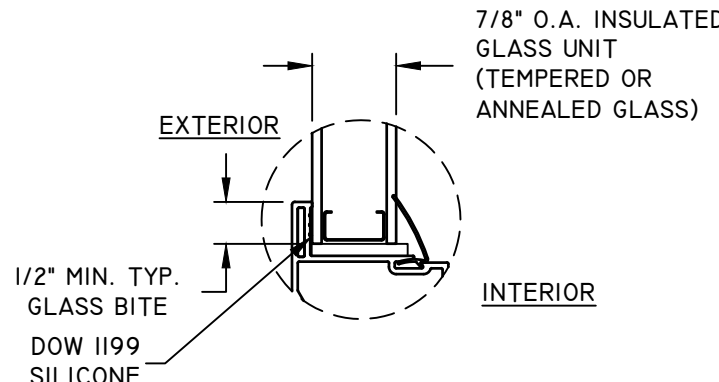
FL#: 16104
DWG #: PGWI77
SHEET: 4 OF 7



B
4
VERTICAL SECTION
FW HEAD
BRICKMOULD FRAME - FIN INSTALLATION

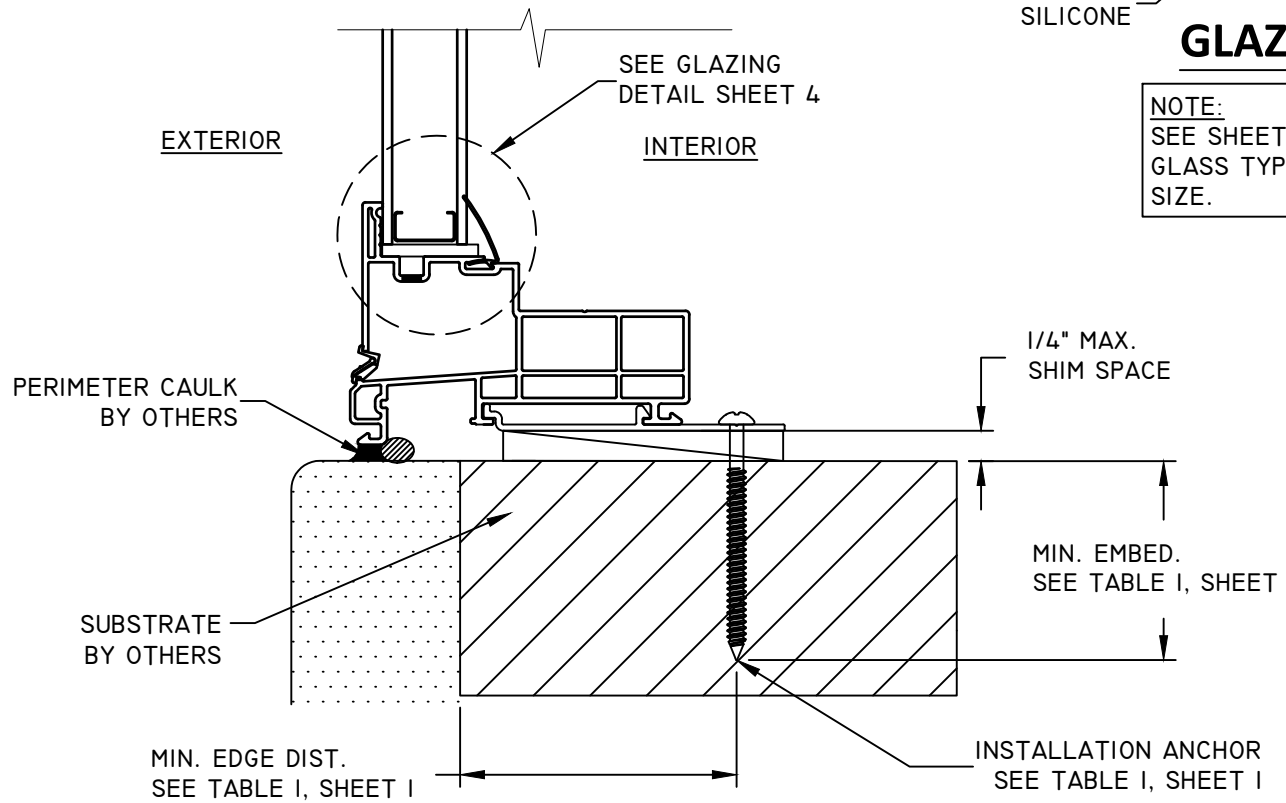


C
4
VERTICAL SECTION
FW HEAD
BEVELED FRAME - FRAME INSTALLATION

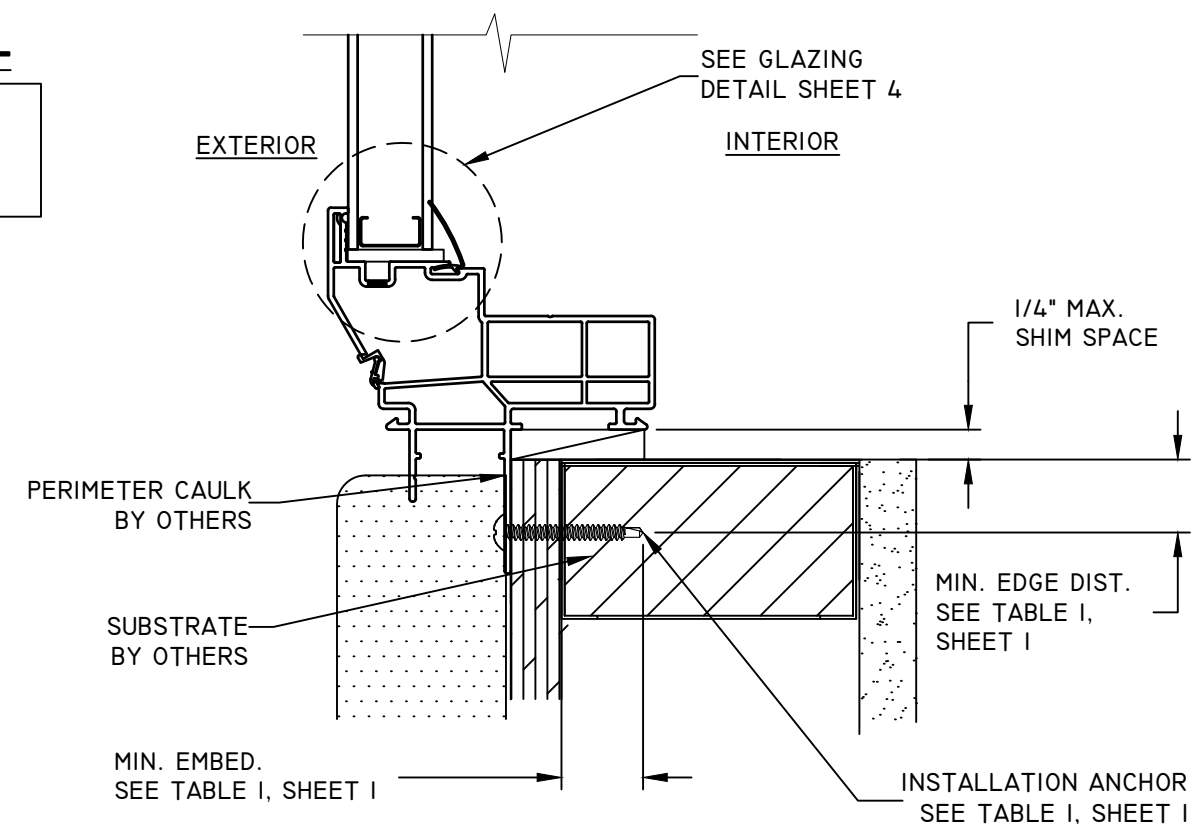


GLAZING DETAIL

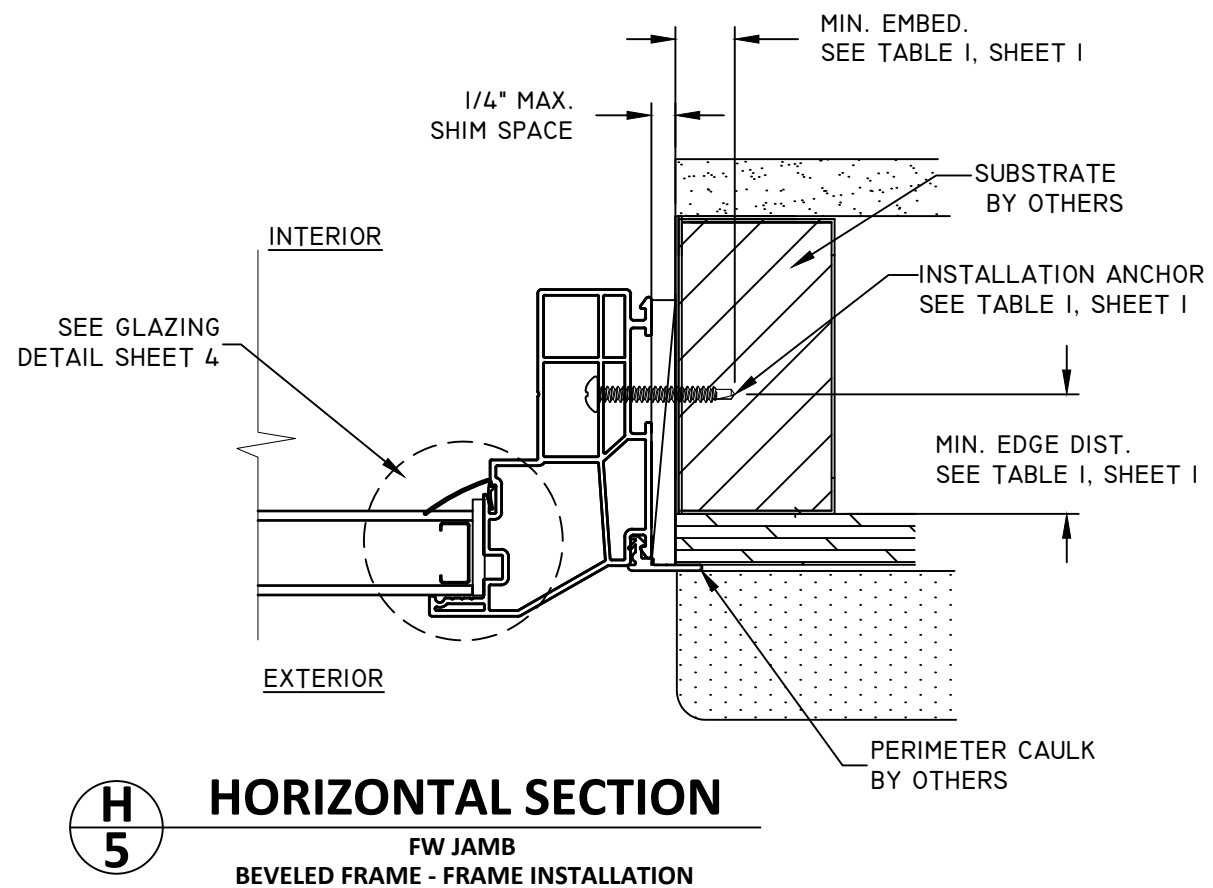
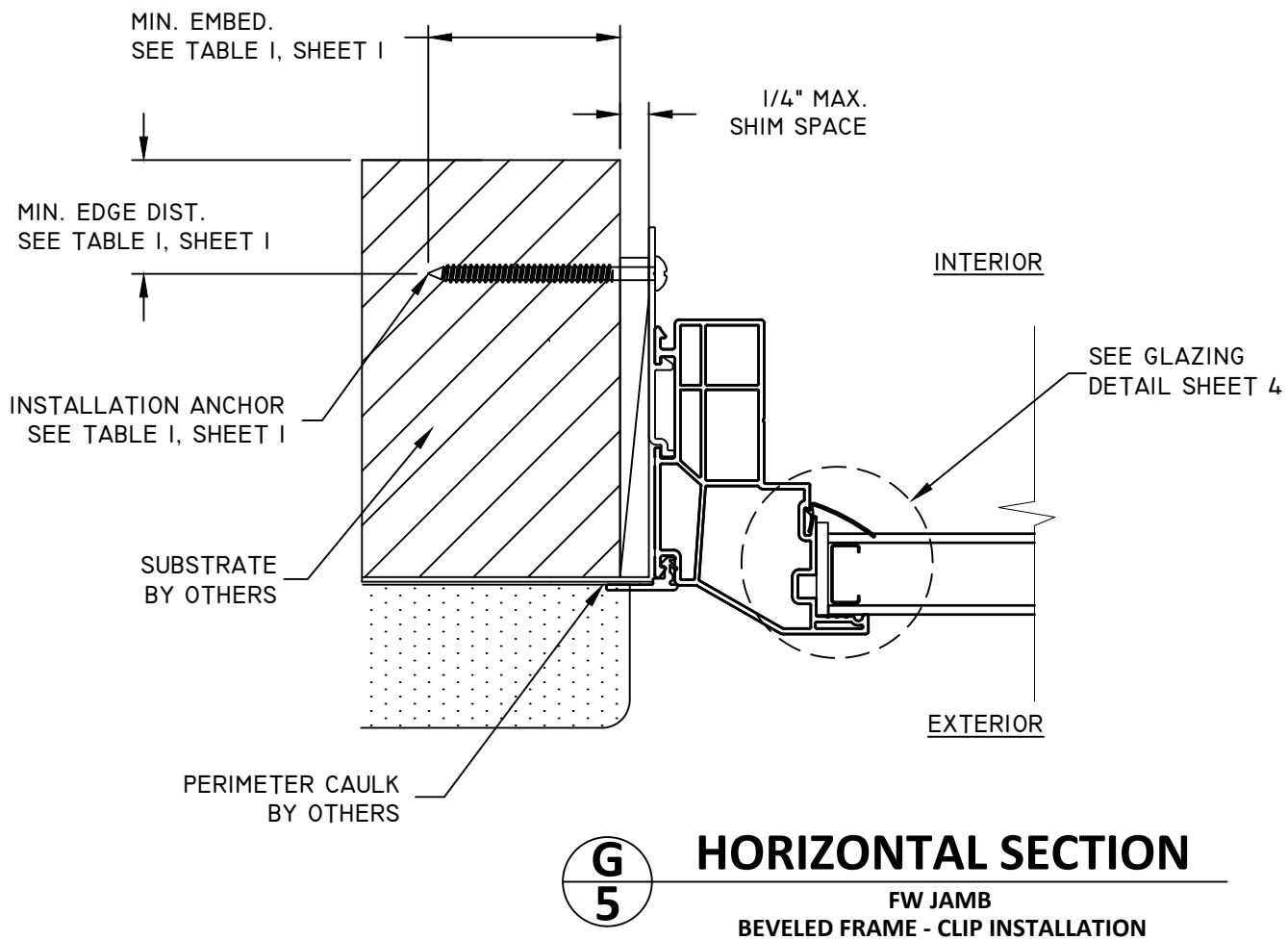
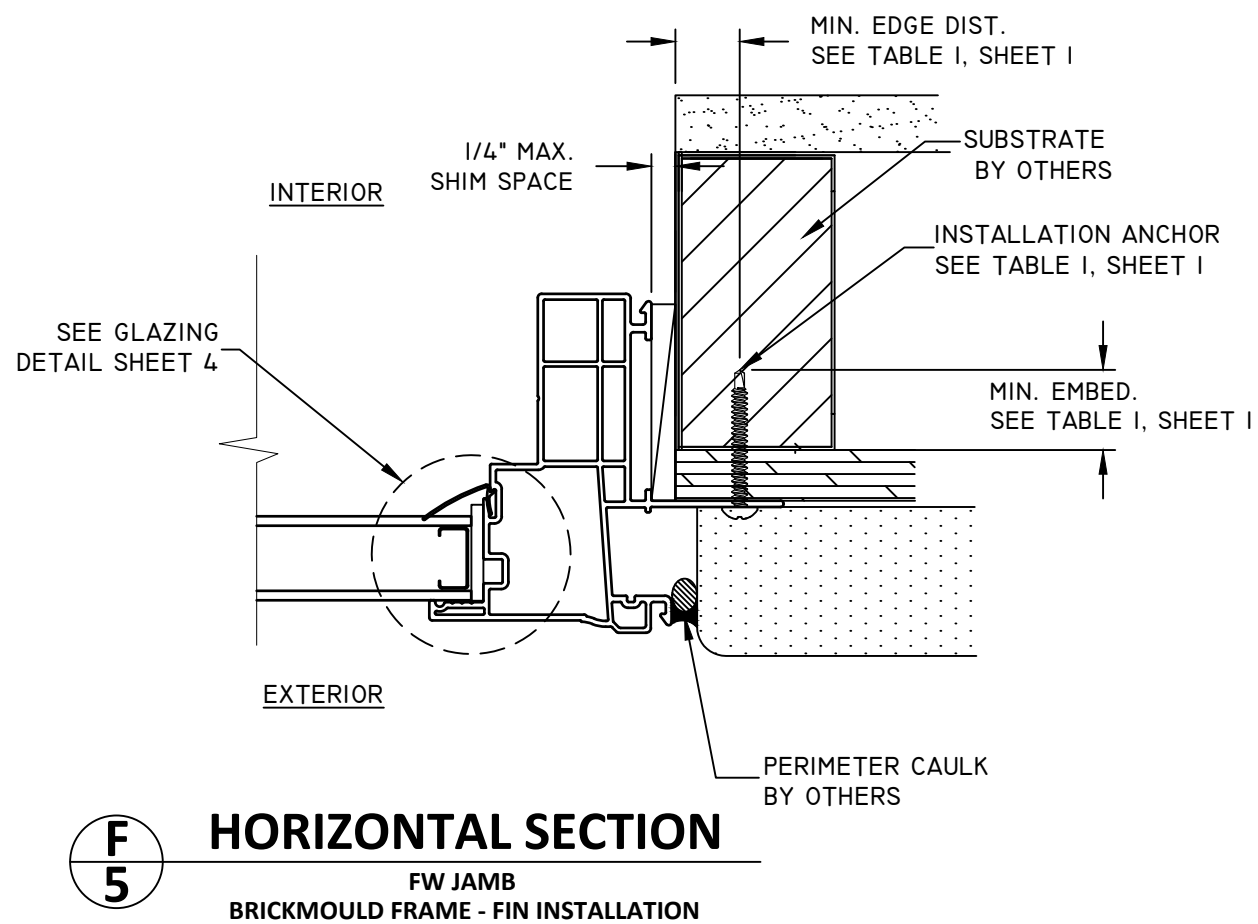
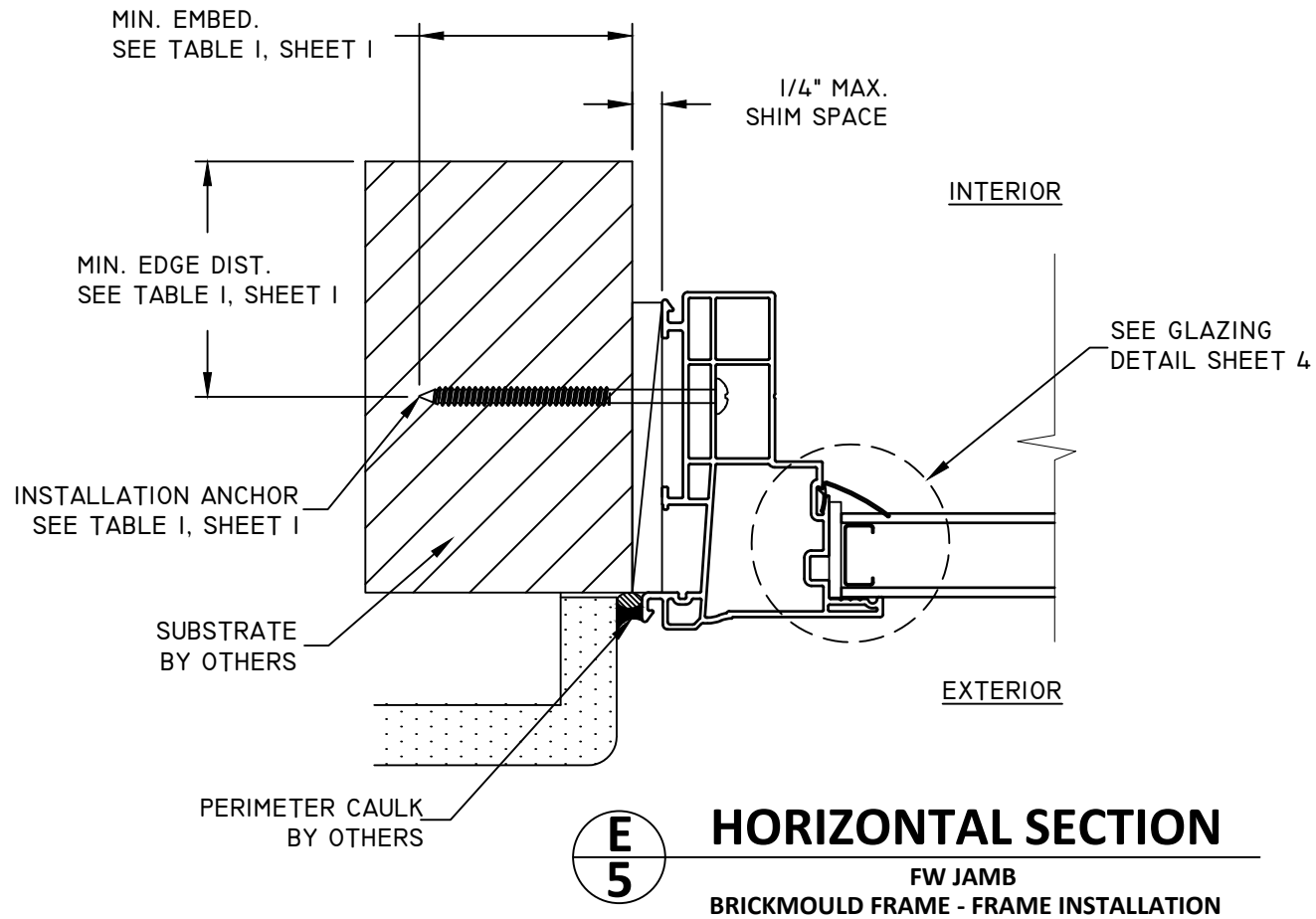
NOTE:
SEE SHEET I FOR REQUIRED
GLASS TYPE BASED ON UNIT
SIZE.



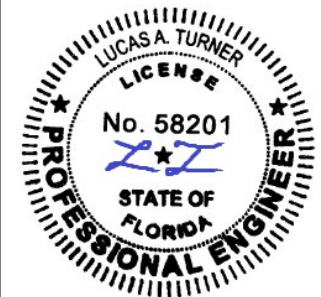
A
4
VERTICAL SECTION
FW SILL
BRICKMOULD FRAME - CLIP INSTALLATION



D
4
VERTICAL SECTION
FW SILL
BEVELED FRAME - FIN INSTALLATION



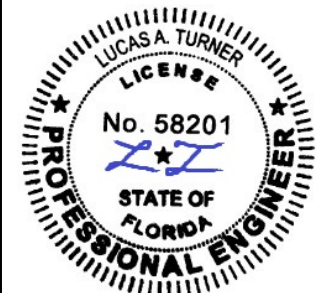
TITLE: SERIES 1500 FIXED WINDOW HORIZONTAL SECTIONS	DATE	BY	REVISION DESCRIPTION	DATE
	11.28.12	LS	5TH EDITION FBC REVISIONS	09.08.16
	DWN BY: JLA	LMH	ADDED NOTES & TABLE I	12.09.17
	CHK BY:	LMH	UPDATED FOR 7TH EDITION 2020 FBC	12.10.20
	SCALE: NTS	LMH	UPDATED TO CURRENT FBC	03.06.26



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 #:	PGWI77
SHEET:	5 OF 7

TITLE: SERIES 1500 FIXED WINDOW VERTICAL SECTIONS & GLAZING DETAIL	DATE	BY	DATE
	11.28.12	JLA	09.08.16
	DWN BY:	LS	12.09.17
	CHK BY:	LMH	12.10.20
	SCALE:	NTS	03.06.26
REVISION DESCRIPTION			
NO.	A	5TH EDITION FBC REVISIONS	
	B	ADDED NOTES & TABLE I	
	C	UPDATED FOR 7TH EDITION 2020 FBC	
	D	UPDATED TO CURRENT FBC	

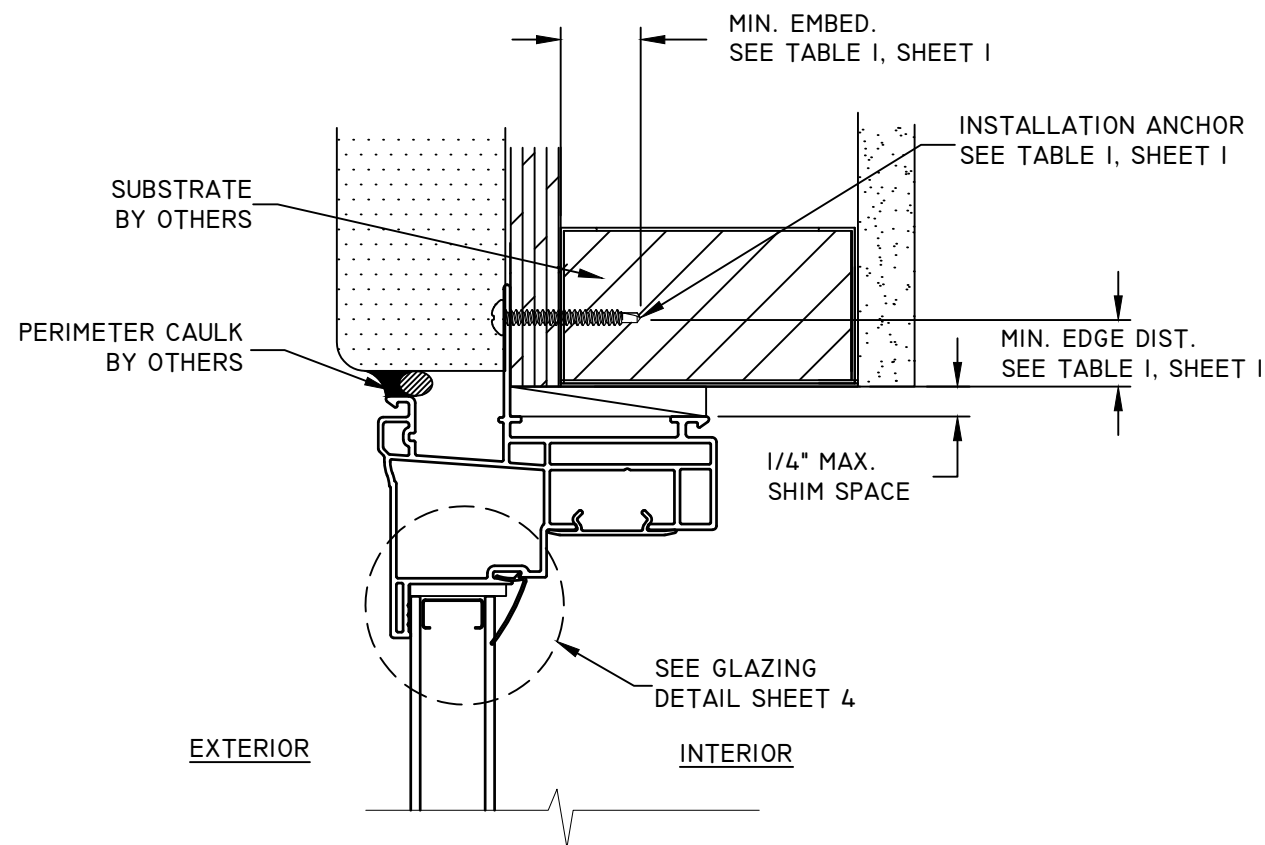


03/06/2026
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

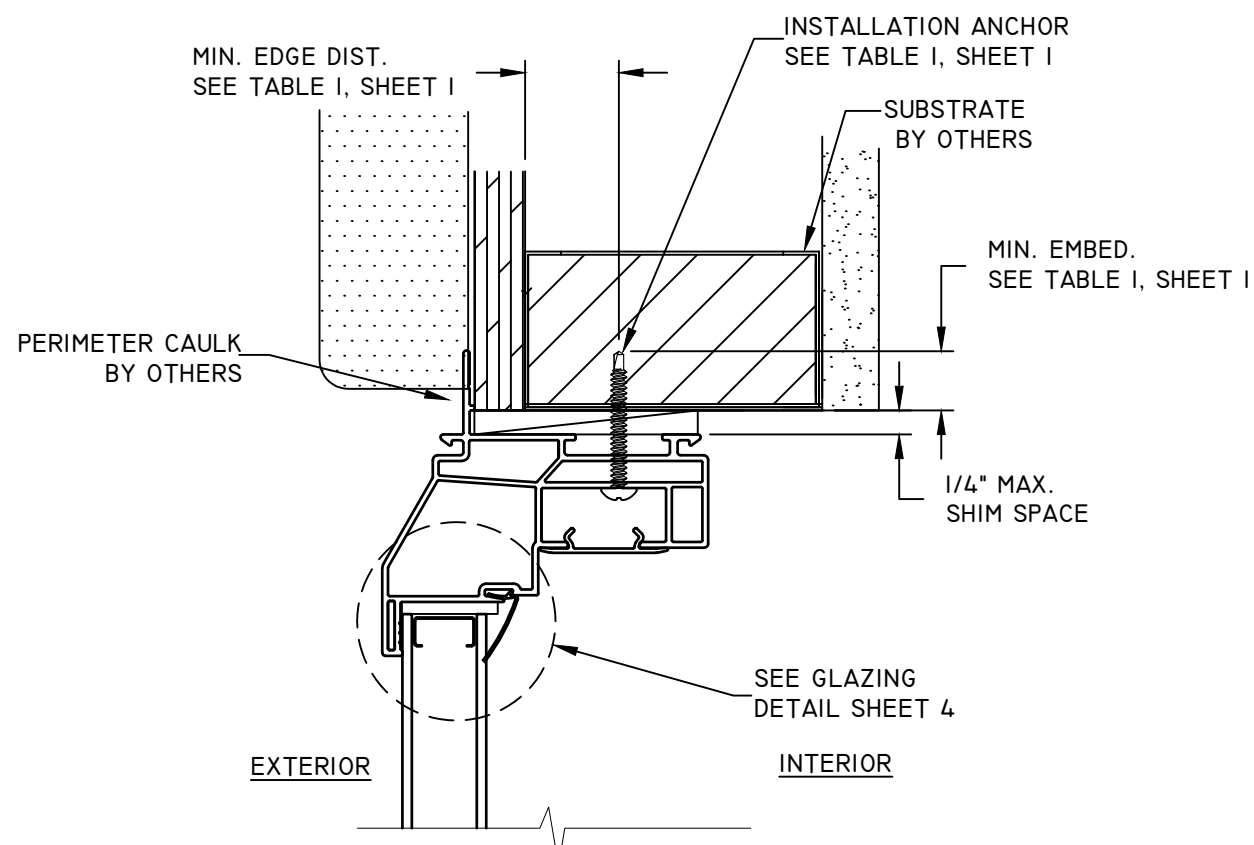
FL#: 16104

DWG #: PGWI77

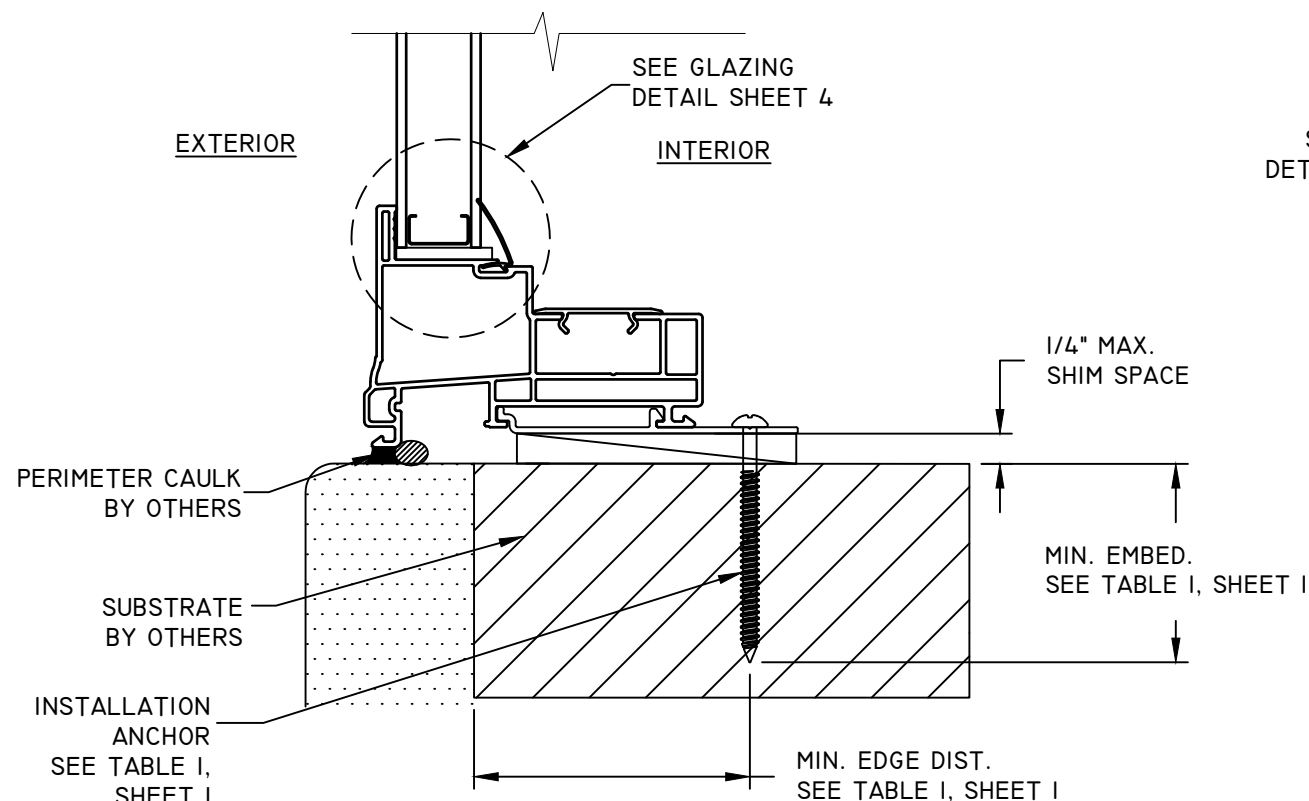
SHEET: 6 OF 7



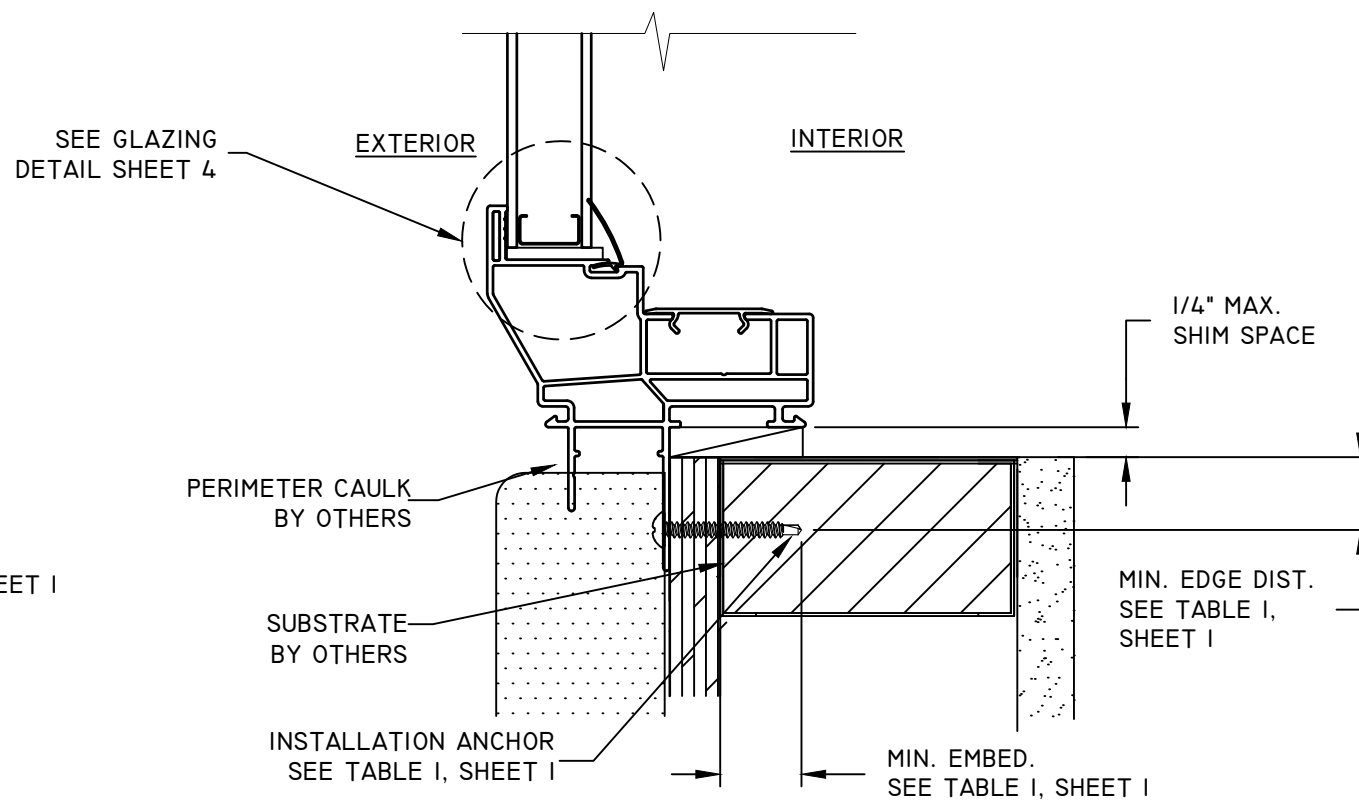
B
6 **VERTICAL SECTION**
GEO HEAD
BRICKMOULD FRAME - FIN INSTALLATION



C
6 **VERTICAL SECTION**
GEO HEAD
BEVELED FRAME - FRAME INSTALLATION



A
6 **VERTICAL SECTION**
GEO SILL
BRICKMOULD FRAME - CLIP INSTALLATION



D
6 **VERTICAL SECTION**
GEO SILL
BEVELED FRAME - FIN INSTALLATION

TITLE: SERIES 1500 FIXED WINDOW
HORIZONTAL SECTIONS

NO.	REVISION DESCRIPTION	BY	DATE
A	5TH EDITION FBC REVISIONS	LS	09.08.16
B	ADDED NOTES & TABLE I	LMH	12.09.17
C	UPDATED FOR 7TH EDITION 2020 FBC	LMH	12.10.20
D	UPDATED TO CURRENT FBC	LMH	03.06.26

DATE: 11.28.12	DWN BY: JLA	CHK BY:	SCALE: NTS
-------------------	----------------	---------	---------------



03/06/2026
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NACHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

FL#: 16104

DWG #: PGWI77

SHEET: 7 OF 7

