

ATRIUM CORPORATION - 311/312/378 VINYL SLIDING GLASS DOOR

(NON-IMPACT)

INSTALLATION NOTES:

1.

ONE (I) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2.

THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3.

INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4.

SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5.

FOR NAIL FIN: WOOD BUCK: USE #8 WOOD SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6.

FOR NAIL FIN: STEEL STUD: USE #8 TEK SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
7.

FOR THRU FRAME: WOOD BUCK: USE #10 WOOD SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
8.

FOR THRU FRAME: CONCRETE/MASONRY: FOR INSTALLATION THROUGH IX BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
9.

FOR THRU FRAME: STEEL STUD: USE #10 TEK SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
10.

MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
11.

INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
12.

FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
13.

INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
14.

INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A.

WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.

B.

CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C.

MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D.

STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS. (20 GAUGE)

SIZE CHART					
OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE	CONFIGURATION	MISSILE IMPACT RATING
WIDTH	HEIGHT				
70-3/4"	79-1/2"	R-PG35	+35/-35 PSF	FIN	NON-IMPACT
94-3/4"	79-1/2"	R-PG35	+35/-35 PSF		
74-3/4"	95-1/2"	R-PG30	+30/-30 PSF		
*72"	82"	R-PG35	+35/-35 PSF		
71-9/16"	79-1/2"	R-PG35	+35/-35 PSF	FINLESS	
95-5/8"	79-1/2"	R-PG35	+35/-35 PSF		
75-3/4"	95-1/2"	R-PG30	+30/-30 PSF		
*72"	82"	R-PG35	+35/-35 PSF		

*UNIT USES ALUMINUM REINFORCEMENTS, ALL OTHERS USE STEEL

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GENERAL NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC) AND THE CURRENT IRC/IBC, EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

•

AAMA/WDMA/CSA 101/I.S.2/A440-08
2.

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, STEEL STUD, AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3.

IX AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4.

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5.

APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6.

WINDOW FRAME MATERIAL: WHITE OR BEIGE VINYL
7.

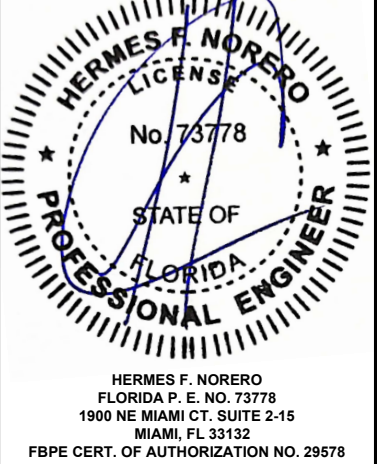
GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAIL.



300 WELCOME CENTER BLVD
WELCOME, NC 27374
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TITLE: 311/312/378 VINYL SLIDING GLASS DOOR INSTALLATION & GENERAL NOTES	DATE	06.02.14	09.01.16	01.10.22	11.27.24
	BY	SM	LS	LMH	LMH
	REVISION DESCRIPTION	FBC 5TH ED. CODE CHANGE	CERTIFICATION UPDATE	UPDATED FOR 7TH EDITION (2020) FBC	UPDATED TO CURRENT FBC.
NO.	B	C	D	E	
DATE: 12.23.10	DWN BY: MSS	CHK BY: HFN	SCALE: NTS		

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2024.12.23 11:53:42 -05'00'

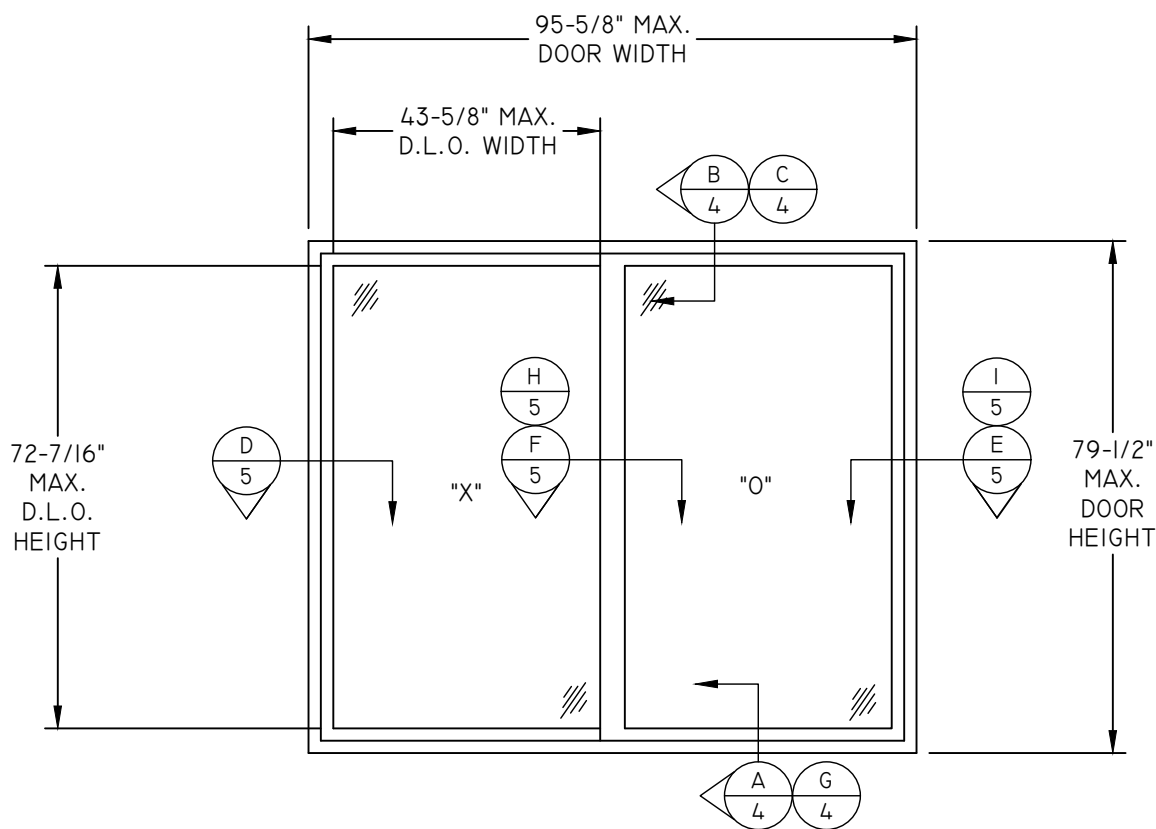


BUILDING DROPS, INC.
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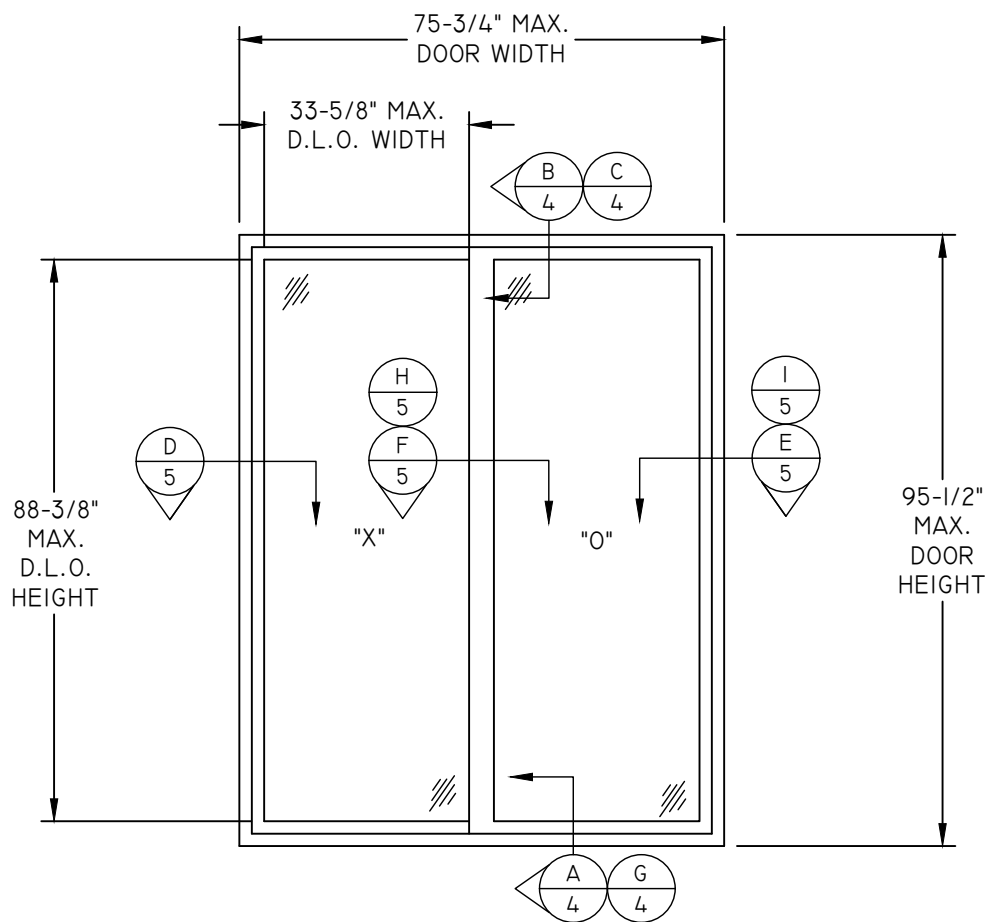
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DWG#: ATR023

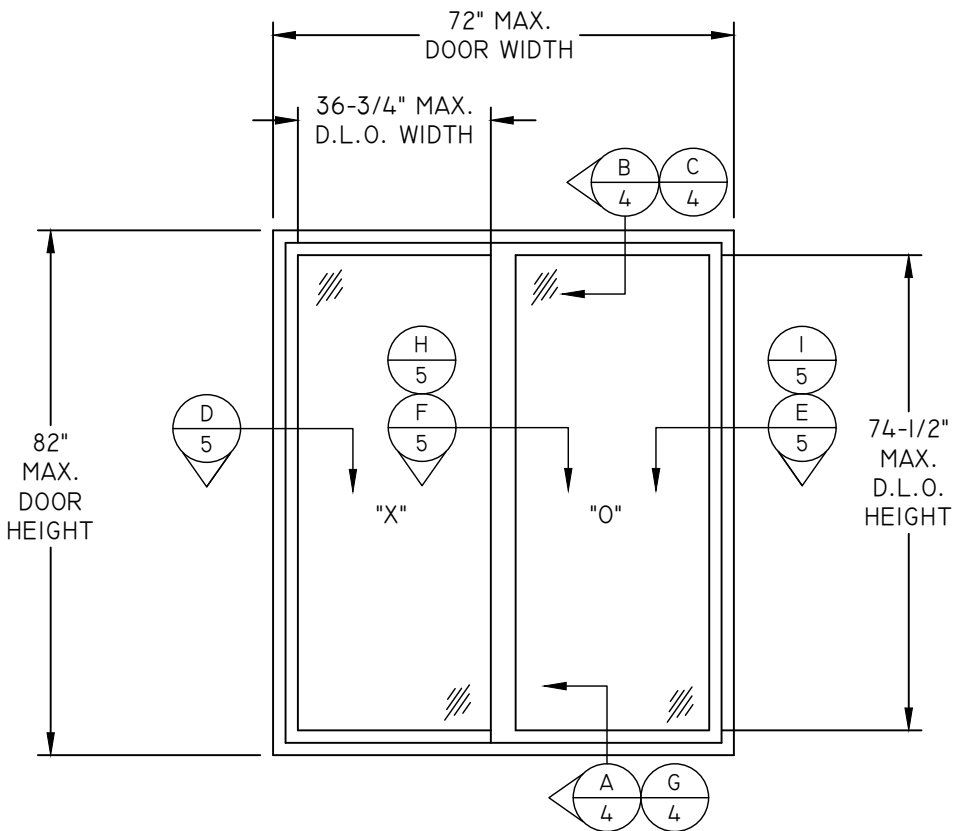
SHEET: 1 OF 5



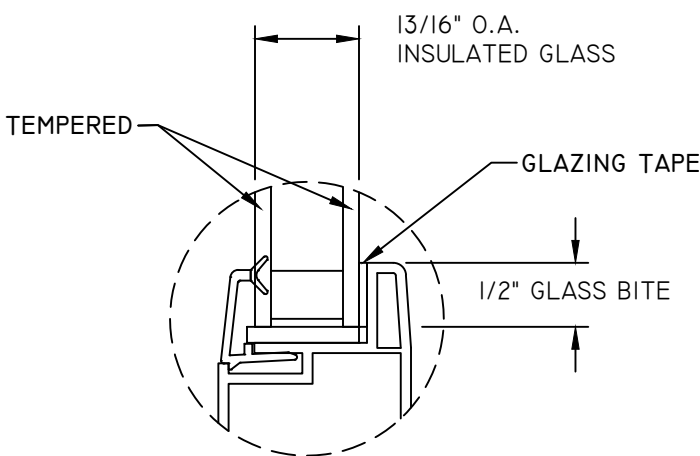
ELEVATION
TYPICAL



ELEVATION
TYPICAL



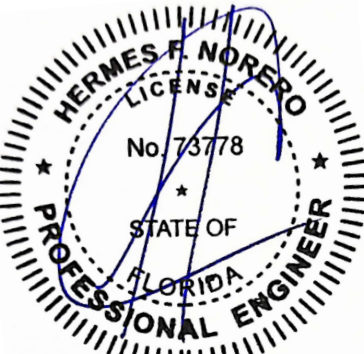
ELEVATION
TYPICAL



GLAZING DETAIL

- NOTES:**
- GLASS THICKNESS AND TYPE MAY VARY PER ASTM E 1300 REQUIREMENT GLASS CHARTS.
 - ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE CURRENT FBC.

TITLE: 311/312/378 VINYL SLIDING GLASS DOOR ELEVATIONS	DATE	BY	REVISION DESCRIPTION	
	12.23.10	DWN BY: MSS		
		CHK BY: HFN		
		SCALE: NTS		
	NO.	B	FBC 5TH ED. CODE CHANGE	
		C	CERTIFICATION UPDATE	
		D	UPDATED FOR 7TH EDITION (2020) FBC	
		E	UPDATED TO CURRENT FBC.	



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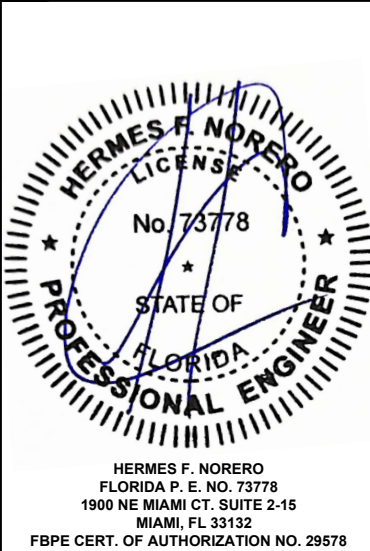
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DWG#: **ATR023**

SHEET: **2 OF 5**

TITLE: 311/312/378 VINYL SLIDING GLASS DOOR ANCHOR LAYOUTS	DATE	BY	REVISION DESCRIPTION	NO.
	12.23.10	DWN BY: MSS	FBC 5TH ED. CODE CHANGE	B
		CHK BY: HFN	CERTIFICATION UPDATE	C
		SCALE: NTS	UPDATED FOR 7TH EDITION (2020) FBC	D
			UPDATED TO CURRENT FBC.	E

DATE: 12.23.10	DWN BY: MSS	CHK BY: HFN	SCALE: NTS
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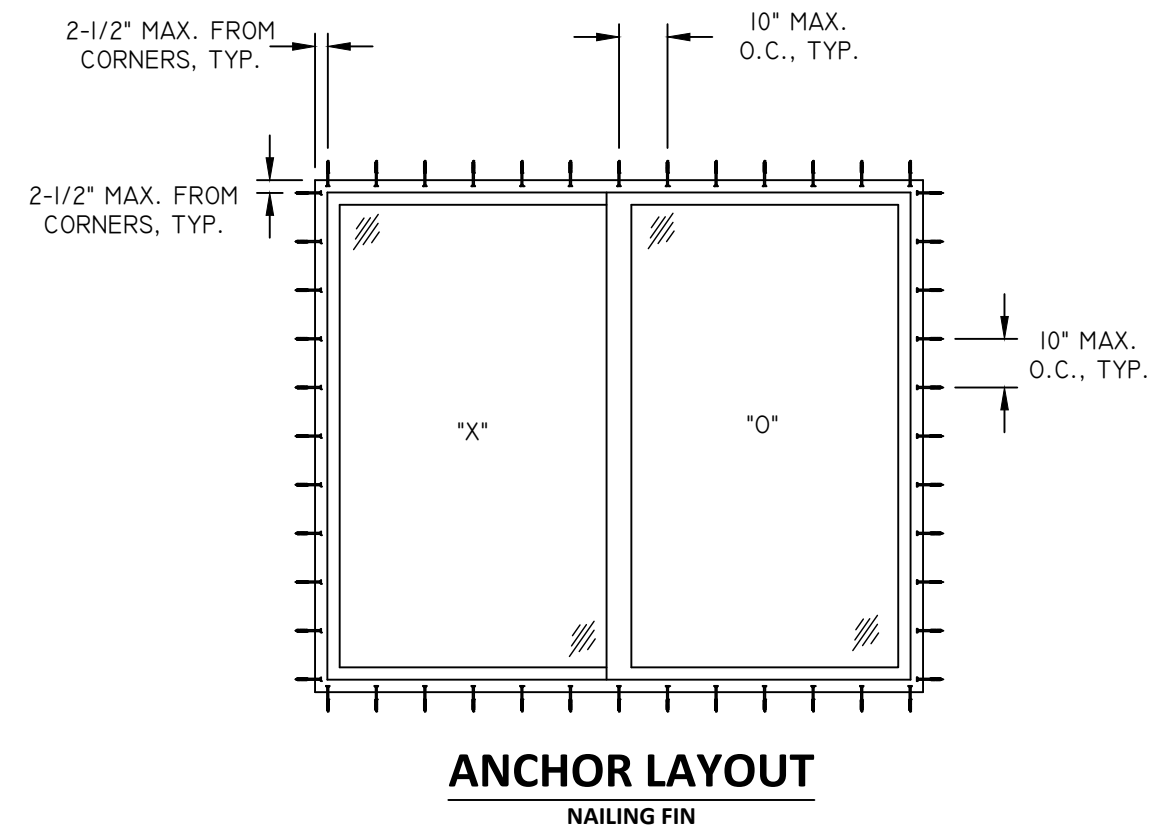
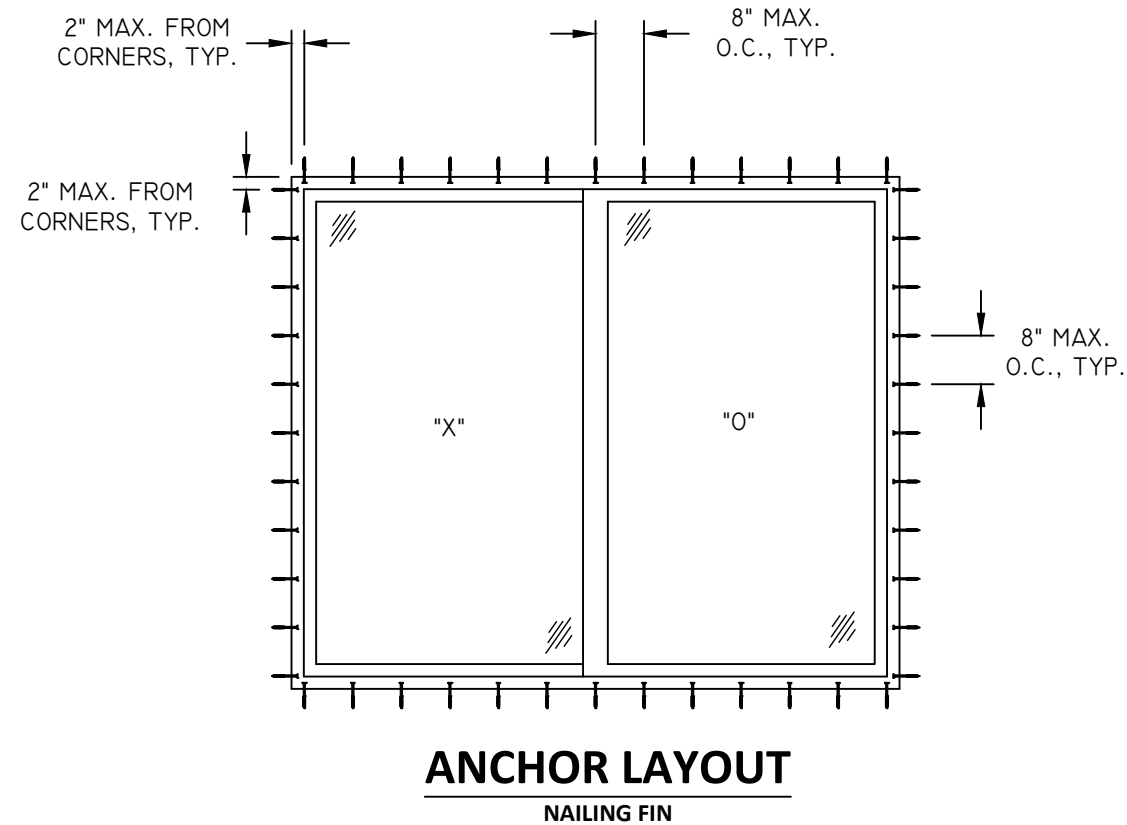


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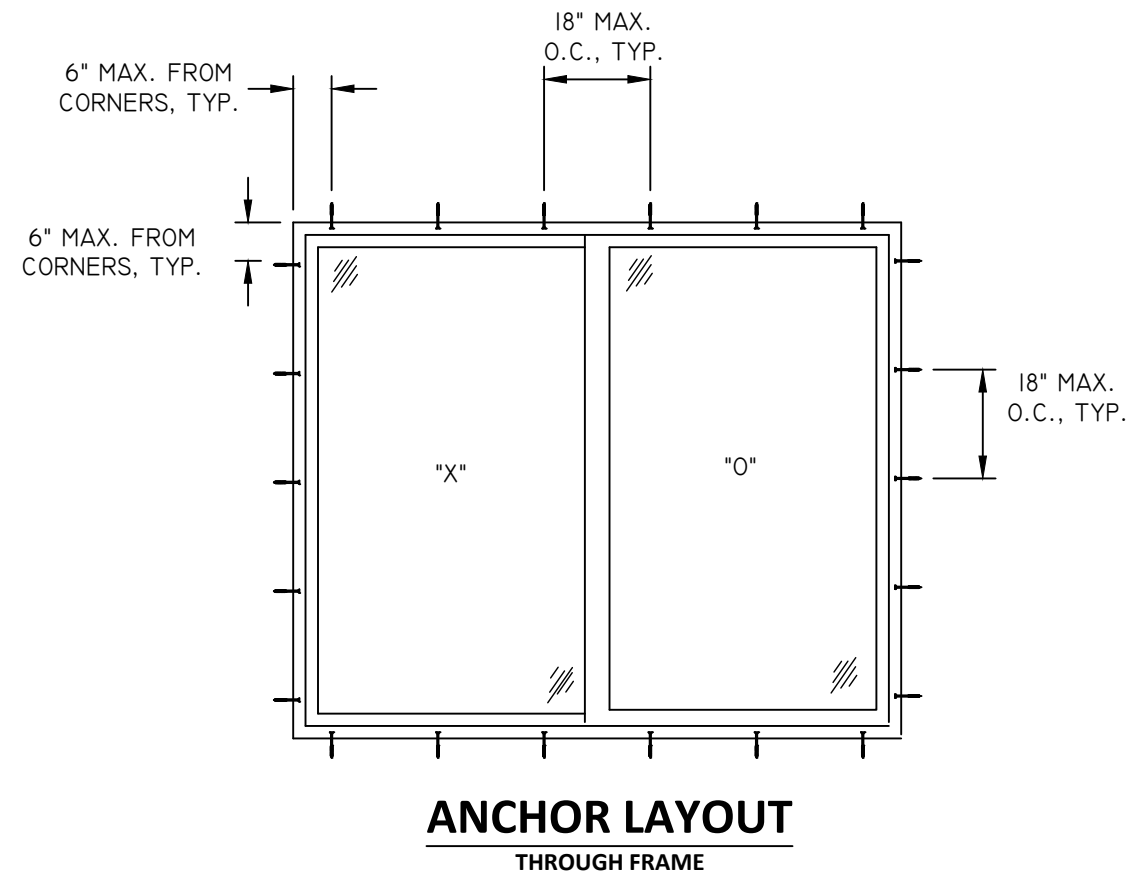
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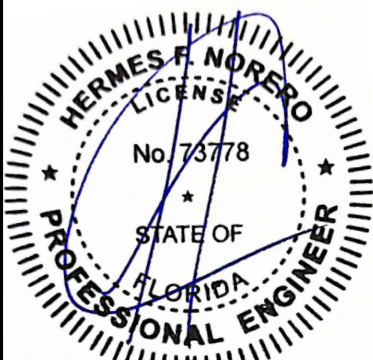
SHEET: 3 OF 5



*APPLICABLE ONLY TO 74.75" X 95.5" CONFIGURATION



TITLE: 311/312/378 VINYL SLIDING GLASS DOOR VERTICAL SECTIONS	DATE	06.02.14
	BY	SM
	REVISION DESCRIPTION	FBC 5TH ED. CODE CHANGE
	NO.	B
	DATE	09.01.16
DATE: 12.23.10	BY	LS
	REVISION DESCRIPTION	CERTIFICATION UPDATE
	NO.	C
	DATE	01.10.22
	BY	LMH
DWN BY: MSS	REVISION DESCRIPTION	UPDATED FOR 7TH EDITION (2020) FBC
	NO.	D
	DATE	11.27.24
	BY	LMH
	REVISION DESCRIPTION	UPDATED TO CURRENT FBC.
CHK BY: HFN	DATE	
	BY	
	REVISION DESCRIPTION	
	NO.	
	DATE	
SCALE: NTS	BY	
	REVISION DESCRIPTION	
	NO.	
	DATE	
	BY	



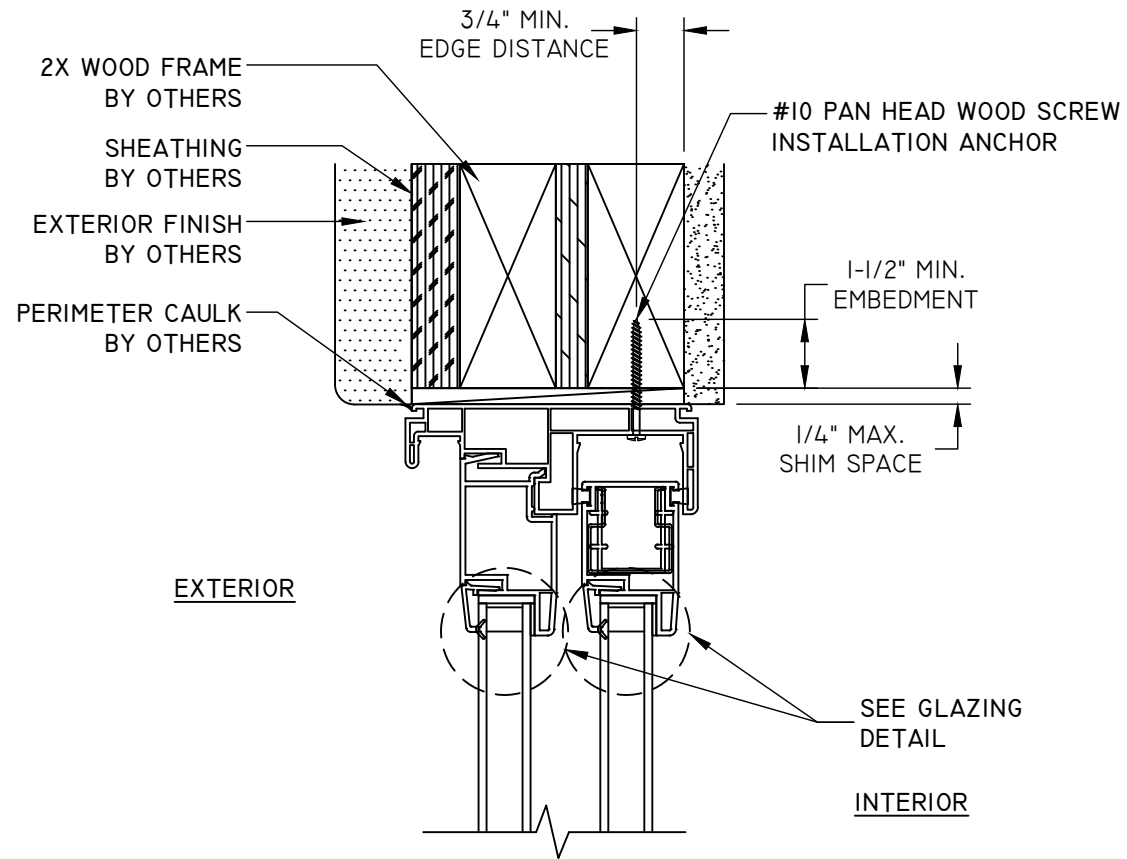
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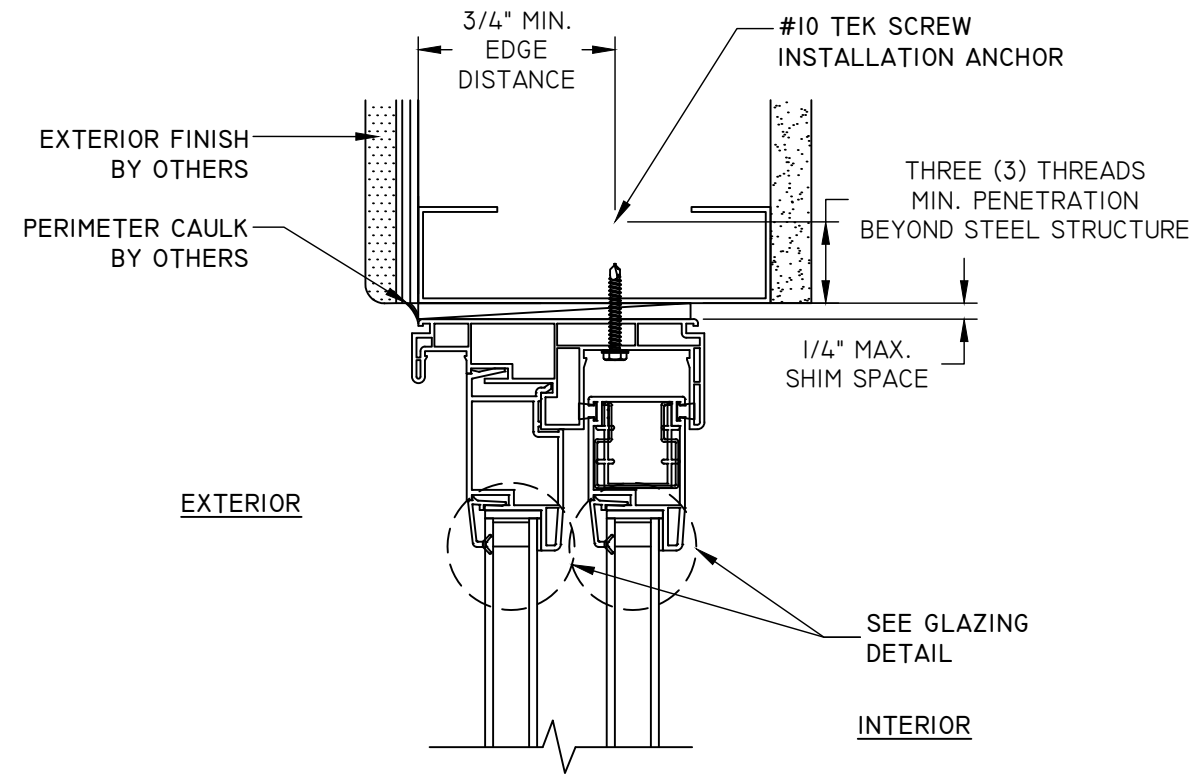
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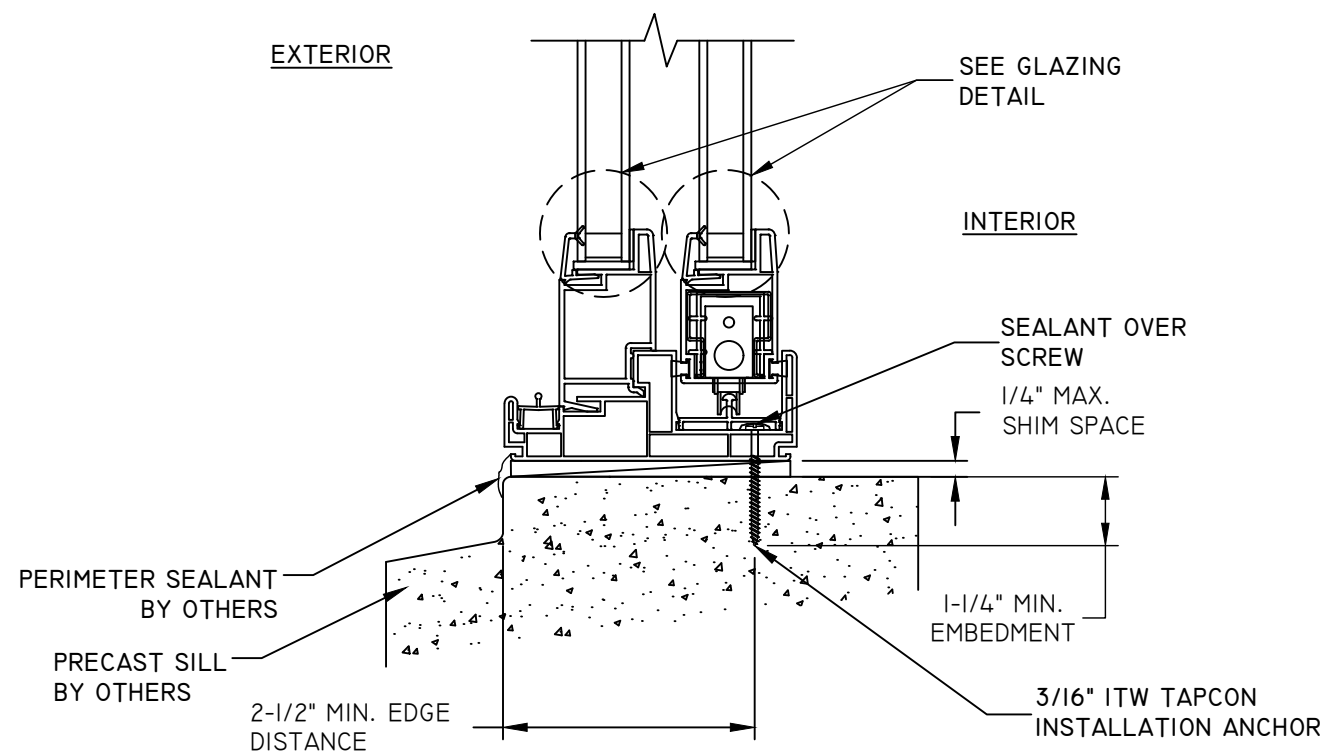
SHEET: 4 OF 5



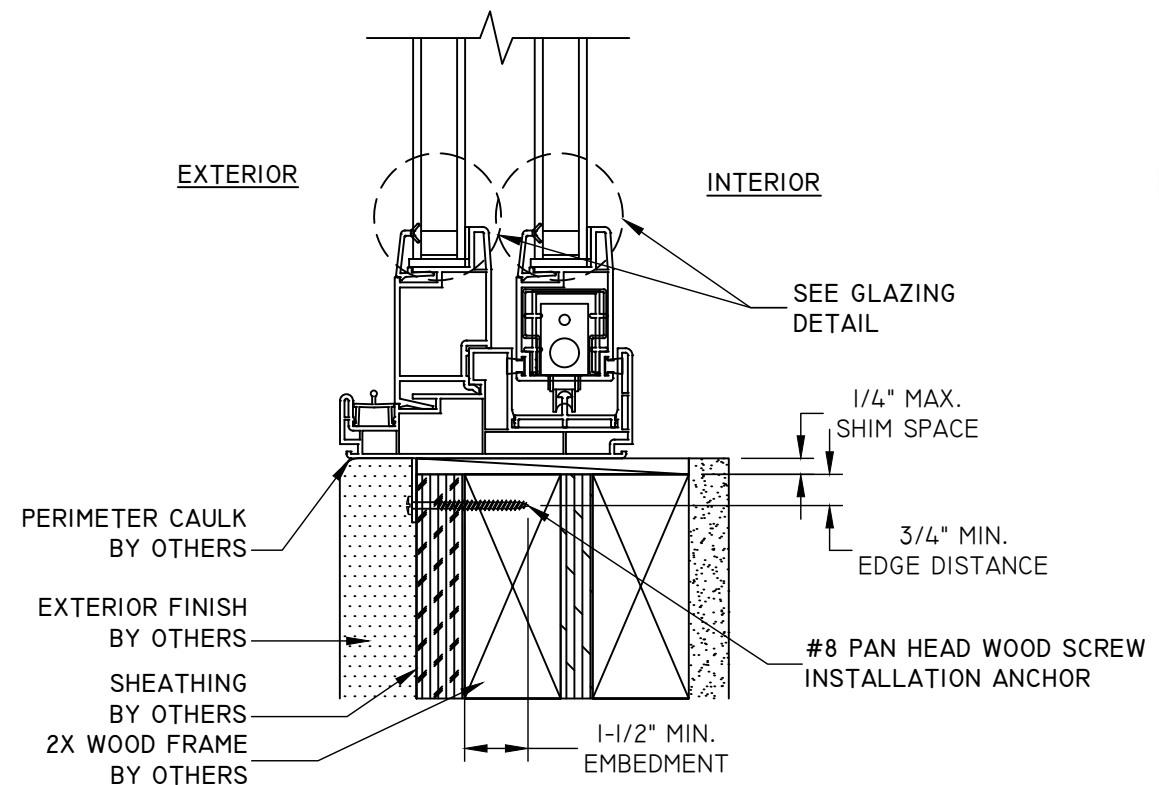
B
4 VERTICAL SECTION
2X WOOD FRAME - HEAD



C
4 VERTICAL SECTION
STEEL STUD FRAME - HEAD

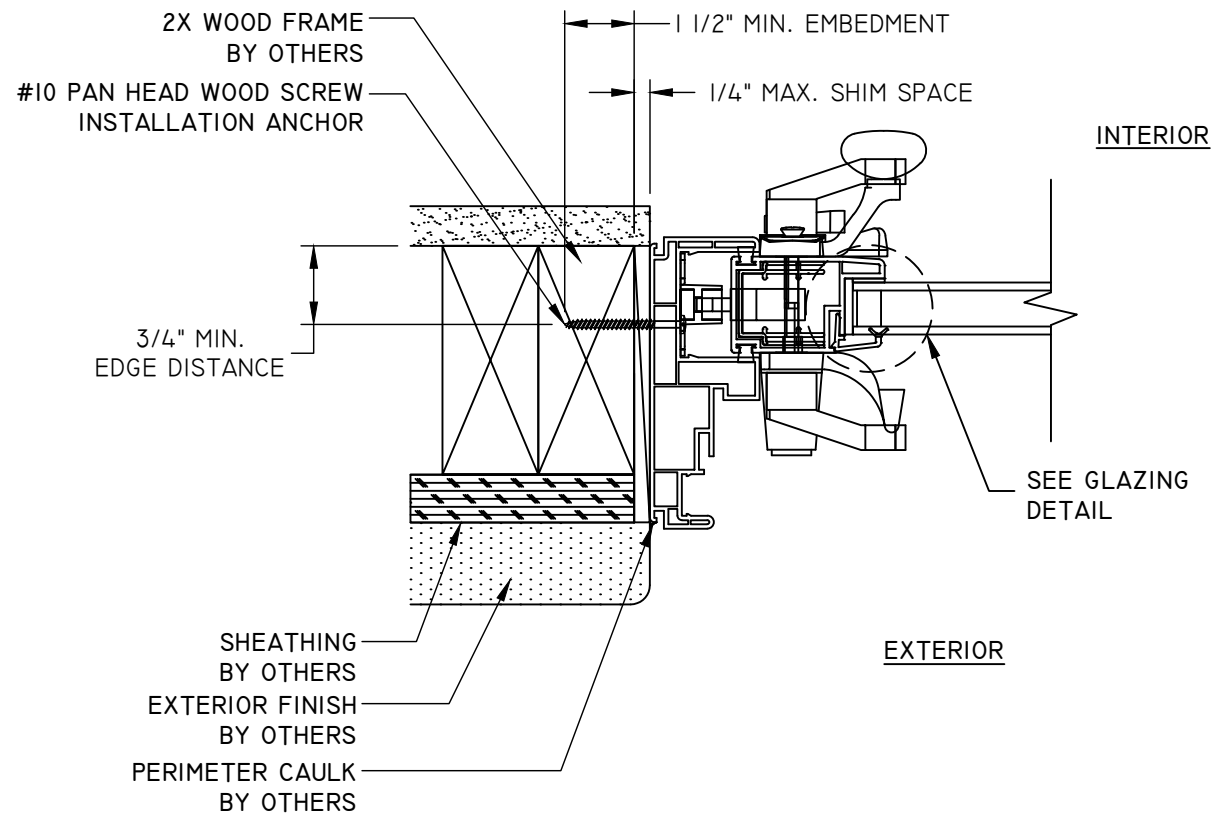


A
4 VERTICAL SECTION
CONCRETE - SILL

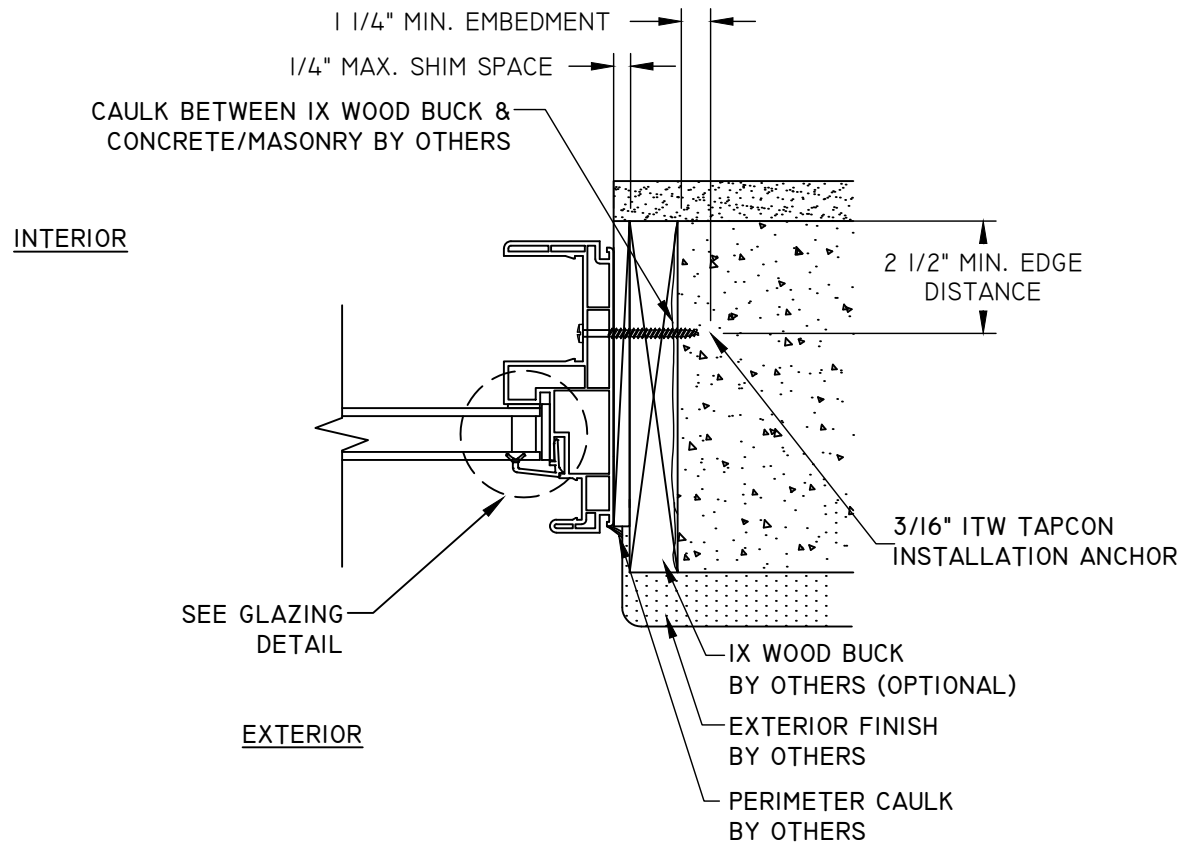


G
4 VERTICAL SECTION
2X WOOD FRAME - SILL
ALTERNATE FIN INSTALLATION (TYP.)

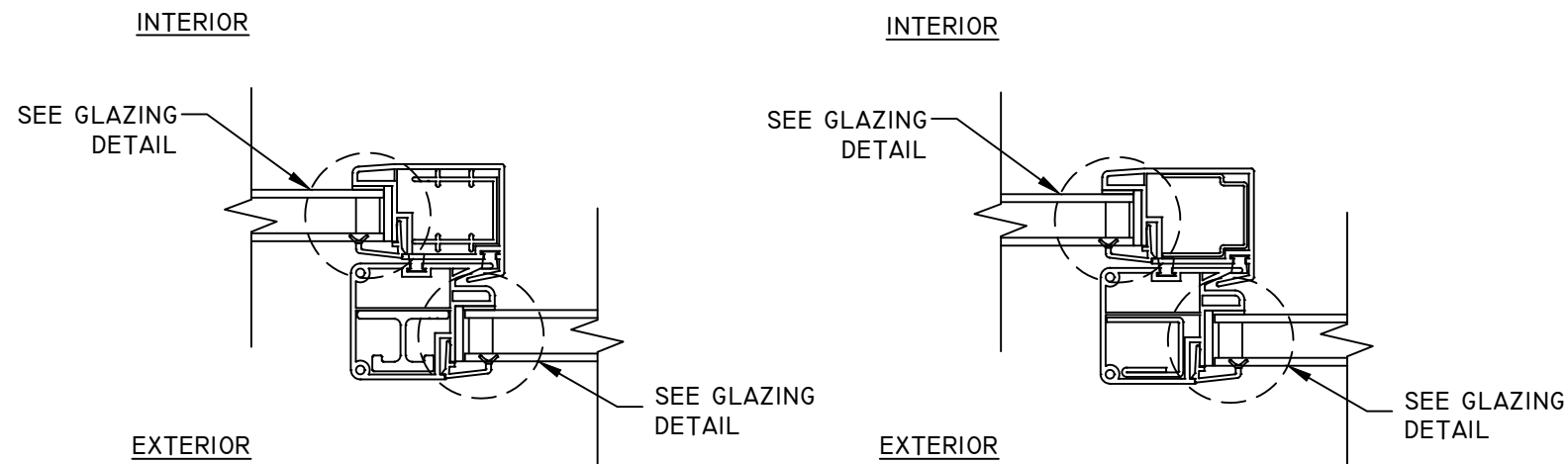
TITLE: 311/312/378 VINYL SLIDING GLASS DOOR HORIZONTAL SECTIONS & GLAZING DETAIL	DATE	06.02.14	09.01.16	01.10.22	11.27.24
	BY	SM	LS	LMH	LMH
	REVISION DESCRIPTION				
	NO.	B	C	D	E
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D
5 **HORIZONTAL SECTION**
2X WOOD FRAME - JAMB



E
5 **HORIZONTAL SECTION**
CONCRETE/MASONRY - JAMB

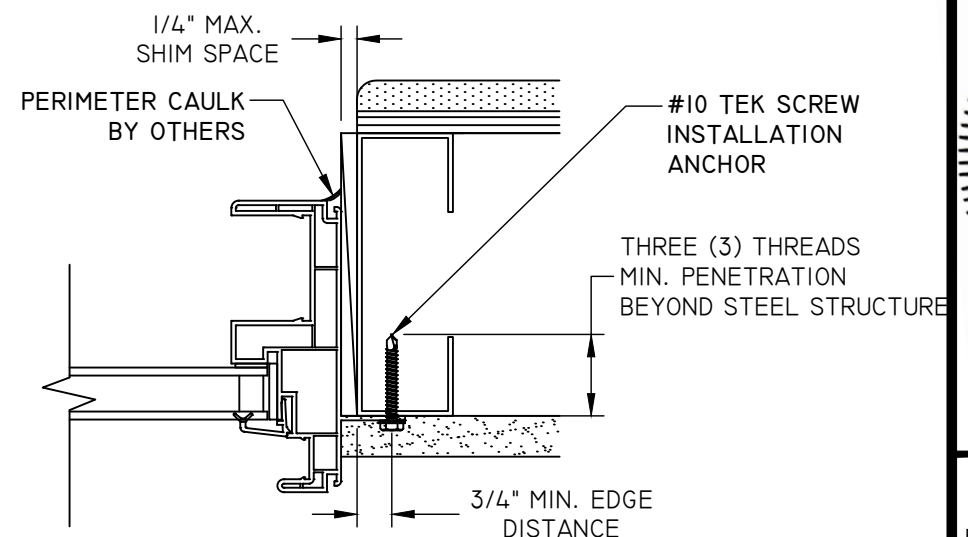


F
5 **HORIZONTAL SECTION**
MEETING STILE
ALUMINUM REINFORCEMENT

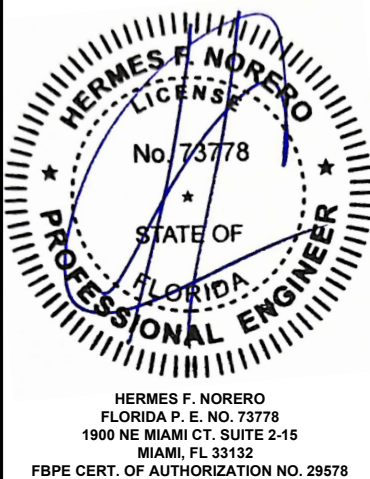
NOTE: FOR USE WITH PANEL SIZES
UP TO 37-11/8" X 79-11/16" WITH A
DESIGN PRESSURE OF 35 PSF

H
5 **HORIZONTAL SECTION**
MEETING STILE
STEEL REINFORCEMENT

NOTE: CAN BE USED WITH ALL PANEL SIZES



I
5 **HORIZONTAL SECTION**
STEEL STUD - JAMB
ALTERNATE FIN INSTALLATION (TYP.)



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SHEET: 5 OF 5