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# WINDSOR WINDOWS & DOORS

## PINNACLE CLAD OUTSWING DOOR

### (WZ3) (IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- 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.
- REFER TO SHEETS 3 - 7 FOR INSTALLATION DETAILS, ANCHOR SELECTION, AND ANCHOR REQUIREMENTS.
- SEALANT SHALL BE USED BETWEEN NAIL FIN AND SUBSTRATE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - GROUT FILLED CMU - STRENGTH CONFORMANCE TO ASTM C90.
  - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
  - ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS 1/16" (0.0625").

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - AAMA/WDMA/CSA 101/I.S.2/A440-17
  - ASTM E 1996-14
  - ASTM E 1886-13a
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY 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.
- 1X 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.
- 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 IN NON-HVHZ AREAS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- DOOR FRAME MATERIAL:
  - WOOD
  - ALUMINUM 6063-T5
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM COMPONENTS SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
  - OPERABLE PANEL
  - STATIONARY PANEL
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 8 FOR GLAZING DETAILS

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATIONS
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4	VERTICAL SECTIONS
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6	HORIZONTAL SECTIONS
7	HORIZONTAL SECTIONS (NARROW STILE)
8	GLAZING DETAILS, MULLION DETAILS & HARDWARE NOTES

DESIGN PRESSURE TABLE						
TYP. OVERALL FRAME SIZE		TYP. OVERALL PANEL SIZE		DESIGN PRESSURE	INSTALLATION METHOD	MISSILE IMPACT RATING
MAX. WIDTH	MAX. HEIGHT	MAX. WIDTH	MAX. HEIGHT			
75.00"	94.875"	36"	92.25"	+50/-50 PSF	THROUGH FRAME, NAIL FIN & CLIP	LMI & SMI



WINDSOR WINDOWS & DOORS

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD OUTSWING DOOR (WZ3)(IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE
NARROW STILE	YC	01.20
2020 CODE CHANGE	YC	01.20
2023 CODE CHANGE	MG	02.23

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DWG. BY: YC  
CHK. BY: HFN

SCALE: NTS

DWG. #: WWD048

SHEET:

1

OF 8

900 S. 19TH STREET.  
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## ELEVATIONS

DANIA BEACH, FL 33004  
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OF 8

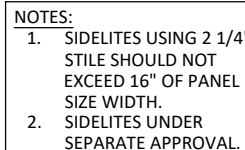


**NOTES:**

1. SIZES BELOW INDICATES MAXIMUM PANEL WIDTH FOR CONFIGURATIONS.
2. SIDELITES UNDER SEPARATE APPROVAL.



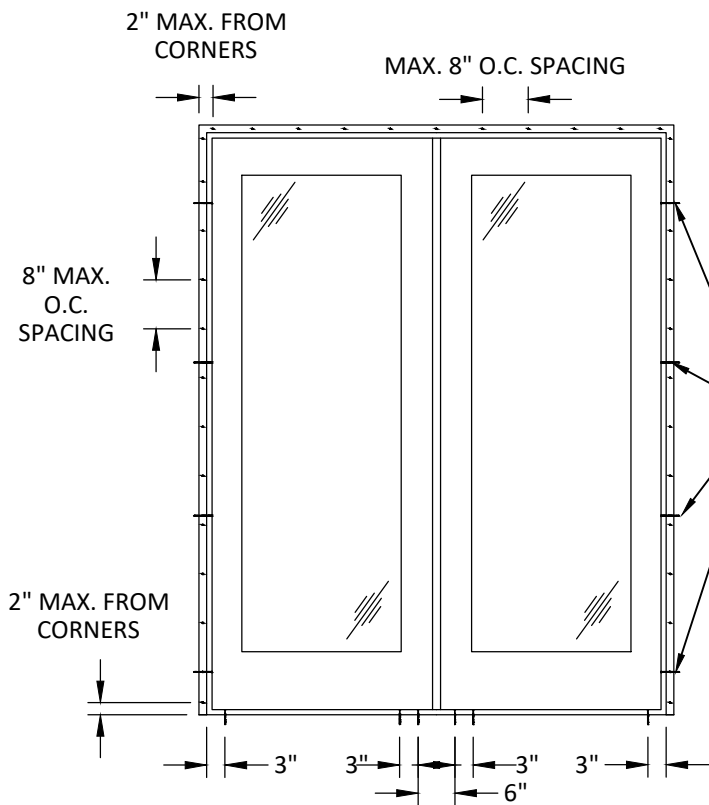
42" MAX.( ZERO MULLION)    68" MAX.( ZERO MULLION)



1. MAXIMUM DESIGN PRESSURE FOR NARROW STILE SIDELITE ON SHEET 2 SHOULD BE AS PER DESIGN PRESSURE TABLE AND A MAXIMUM D.L.O. OF 11.5" X 102.50".
2. NARROW STILE SIDELITES AND TRADITIONAL SIDELITES UNDER SEPARATE APPROVAL. THE LOWER DESIGN PRESSURE OF THE DOOR AND SIDELITE SHALL CONTROL THE ALLOWABLE DESIGN PRESSURE FOR THE ASSEMBLY.

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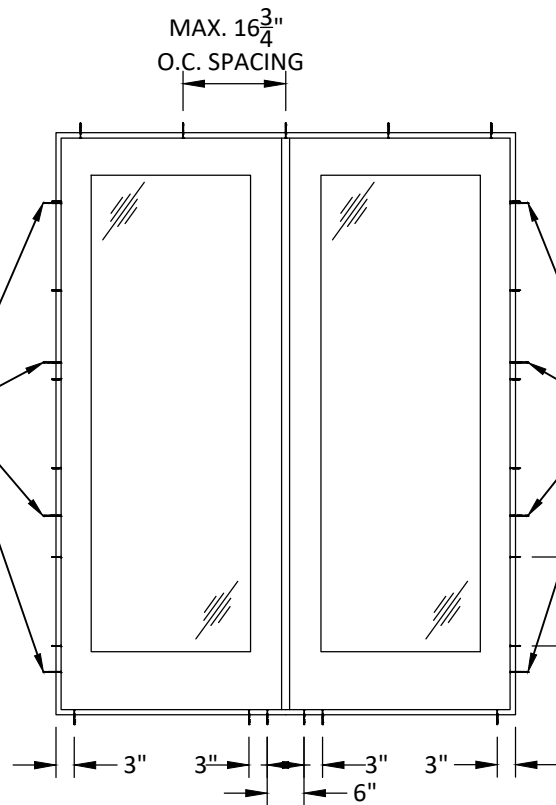
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TYPICAL ANCHOR LAYOUT  
NAIL FIN

FIN INSTALLATION ANCHOR TYPES					
ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MAX. SPACING DISTANCE	NOTES
10d COMMON NAIL OR 11 GA. ROOFING NAIL X 2-1/2"	MIN. S.G.= 0.55 WOOD	1.5"	0.5"	HEAD: 8" O.C. JAMBS: 8" O.C. SILL: PER THRU FRAME INSTALLATION	--
#8 WOOD SCREWS	MIN. S.G.= 0.55 WOOD	1.5"	0.5"	HEAD: 8" O.C. JAMBS: 8" O.C. SILL: PER THRU FRAME INSTALLATION	--
#8-24 SELF-DRILLING OR SELF-TAPPING HWH SCREWS (GRADE 5)	STEEL: 18 GA. MIN., F <sub>y</sub> =33 KSI/ MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	0.5"	HEAD: 7" O.C. JAMBS: 8" O.C. SILL: PER THRU FRAME INSTALLATION	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED
FIN IS FASTENED TO DOOR WOOD FRAME WITH #8 X 1/2" WOOD SCREWS AT 8" O.C.					

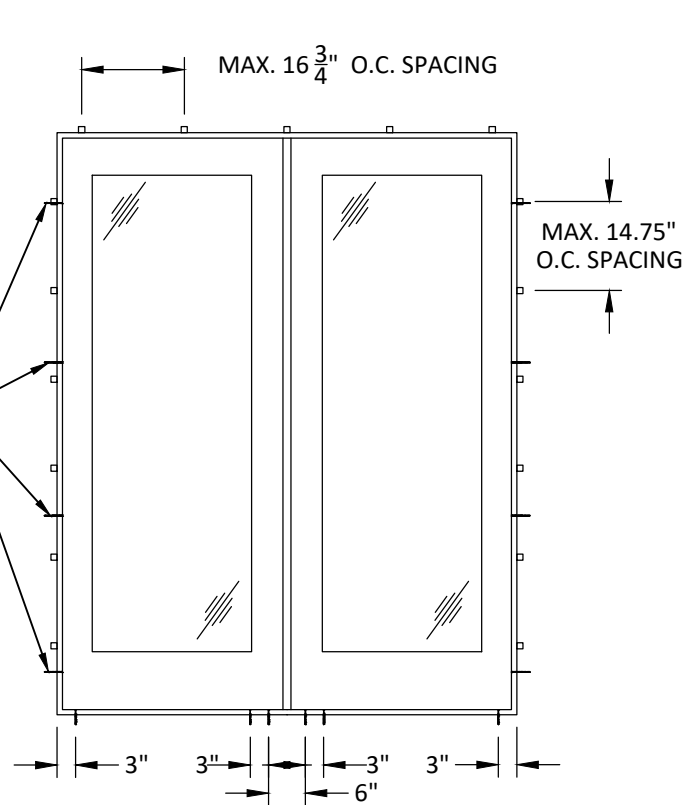
NOTE:  
ALL INSTALLATION  
OPTIONS USE THRU  
FRAME INSTALLATION  
METHOD AT SILL



TYPICAL ANCHOR LAYOUT  
THRU FRAME

THRU FRAME ANCHOR TYPES					
ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MAX. SPACING DISTANCE	NOTES
3/16" Ø ULTRACON BY ELCO (F <sub>u</sub> =155 KSI, F <sub>y</sub> =177 KSI)	CONCRETE AT HEAD, SILL OR JAMBS F' <sub>c</sub> =3000 PSI/ MIN. C-90 HOLLOW/FILLED BLOCK AT JAMBS F' <sub>m</sub> =2000 PSI/ MIN.	1.75"	1.0"	HEAD: 8" O.C. JAMBS: 8" O.C. SILL: (1) 3" FROM ENDS & (1) 3" FROM CENTER + (1) 6" FROM CENTER	MAY BE USED THROUGH OPTIONAL 1X BUCKS, BY OTHERS
#10-24 WOOD SCREWS	MIN. S.G.= 0.55 WOOD	1.0"	0.75"	HEAD: 8" O.C. JAMBS: 8" O.C. SILL: (1) 3" FROM ENDS & (1) 3" FROM CENTER + (1) 6" FROM CENTER	--
#10-24 SELF-DRILLING OR SELF-TAPPING HWH SCREWS (GRADE 5)	STEEL: 18 GA. MIN., F <sub>y</sub> =33 KSI/ MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	0.75"	HEAD: 8" O.C. JAMBS: 8" O.C. SILL: (1) 3" FROM ENDS & (1) 3" FROM CENTER + (1) 6" FROM CENTER	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED

CLIP ANCHOR TYPES					
ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MAX. SPACING DISTANCE	NOTES
3/16" Ø ULTRACON BY ELCO (F <sub>u</sub> =155 KSI, F <sub>y</sub> =177 KSI)	CONCRETE AT HEAD, SILL OR JAMBS F' <sub>c</sub> =3000 PSI/ MIN. C-90 HOLLOW/FILLED BLOCK AT JAMBS F' <sub>m</sub> =2000 PSI/ MIN.	1.75"	1.0"	HEAD: 8" O.C. JAMBS: 8" O.C. SILL: PER THRU FRAME INSTALLATION	MAY BE USED THROUGH OPTIONAL 1X BUCKS, BY OTHERS
#8-24 WOOD SCREWS	MIN. S.G.= 0.55 WOOD	1.0"	1.0"	HEAD: 8" O.C. JAMBS: 16" O.C. SILL: PER THRU FRAME INSTALLATION	--
#8-24 SELF-DRILLING OR SELF-TAPPING HWH SCREWS (GRADE 5)	STEEL: 18 GA. MIN., F <sub>y</sub> =33 KSI/ MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	0.75"	HEAD: 12" O.C. JAMBS: 16" O.C. SILL: PER THRU FRAME INSTALLATION	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED
CLIP FASTENED TO DOOR WOOD FRAME WITH (2) #6 X 3/4" SCREWS PER CLIP					



TYPICAL ANCHOR LAYOUT  
CLIP



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ANCHOR LAYOUTS

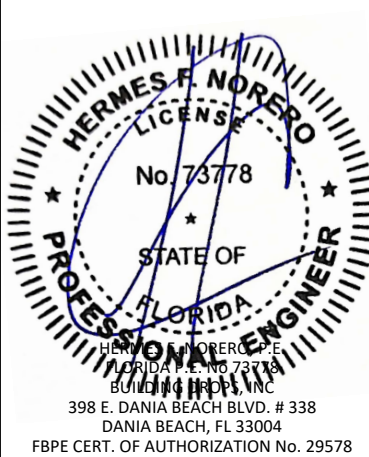
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REMARKS	BY	DATE
NARROW STILE	YC	01.20
2020 CODE CHANGE	YC	01.20
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YC

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HFN

SCALE: NTS

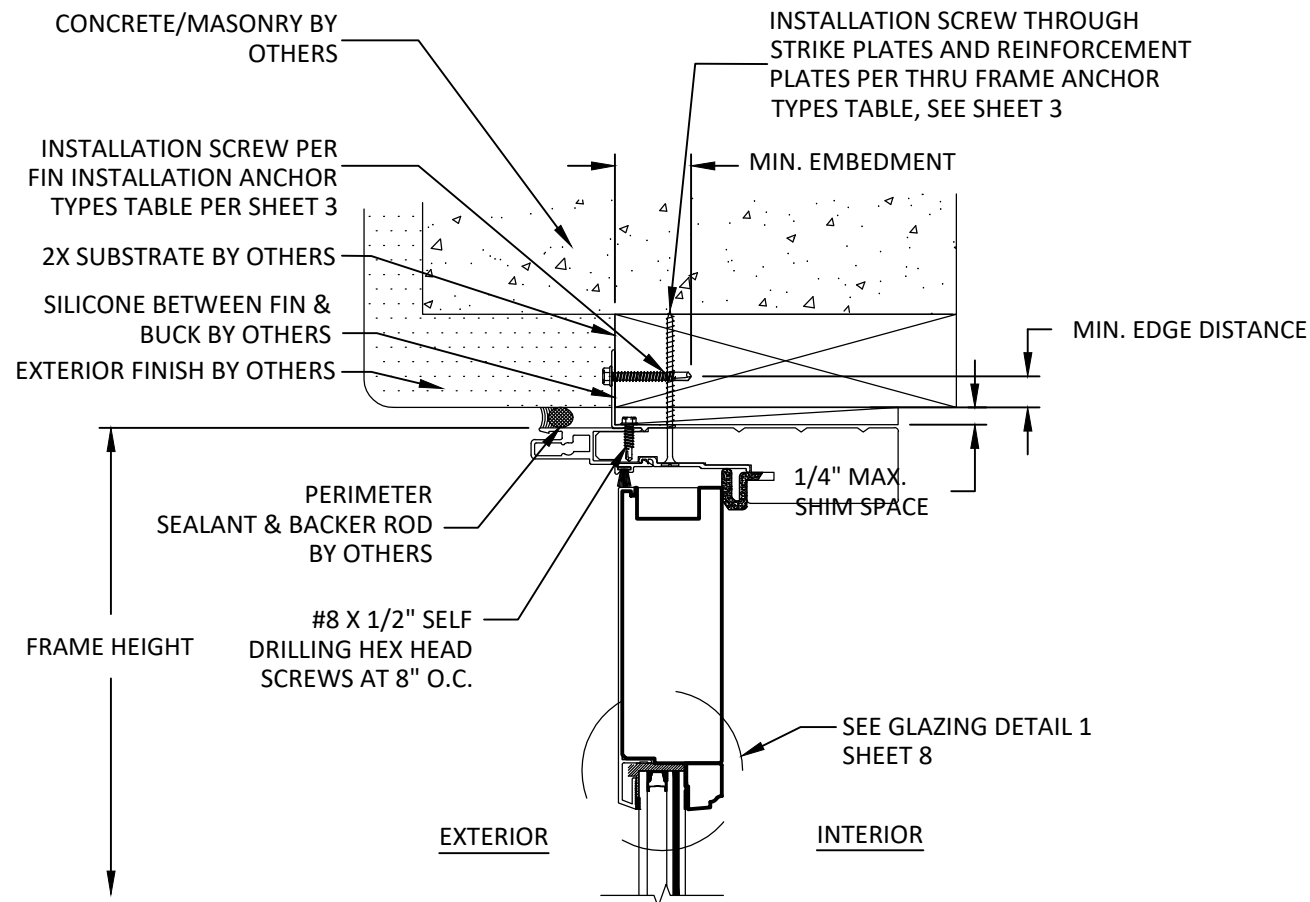
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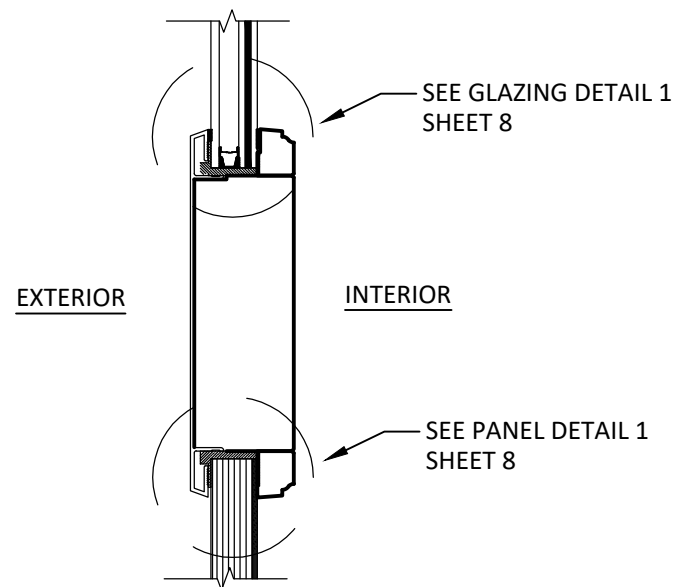
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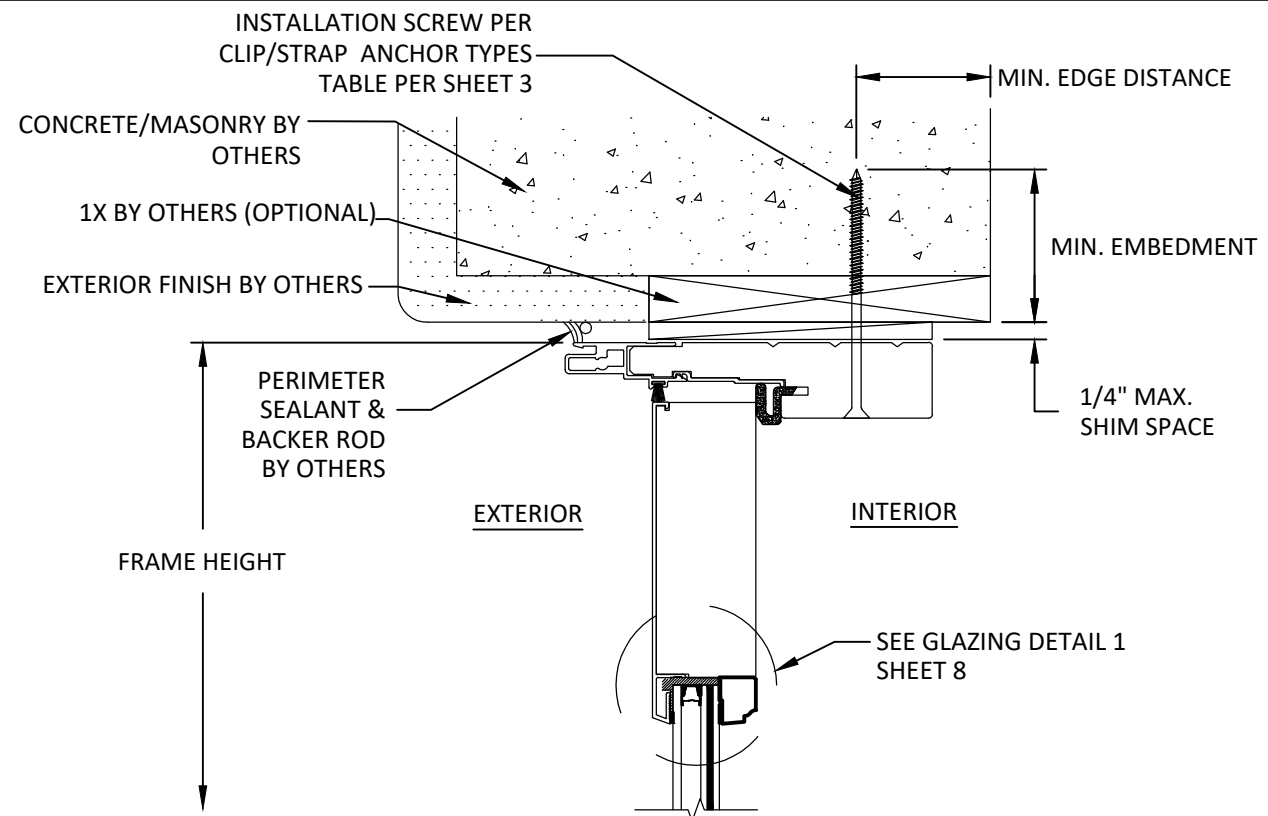
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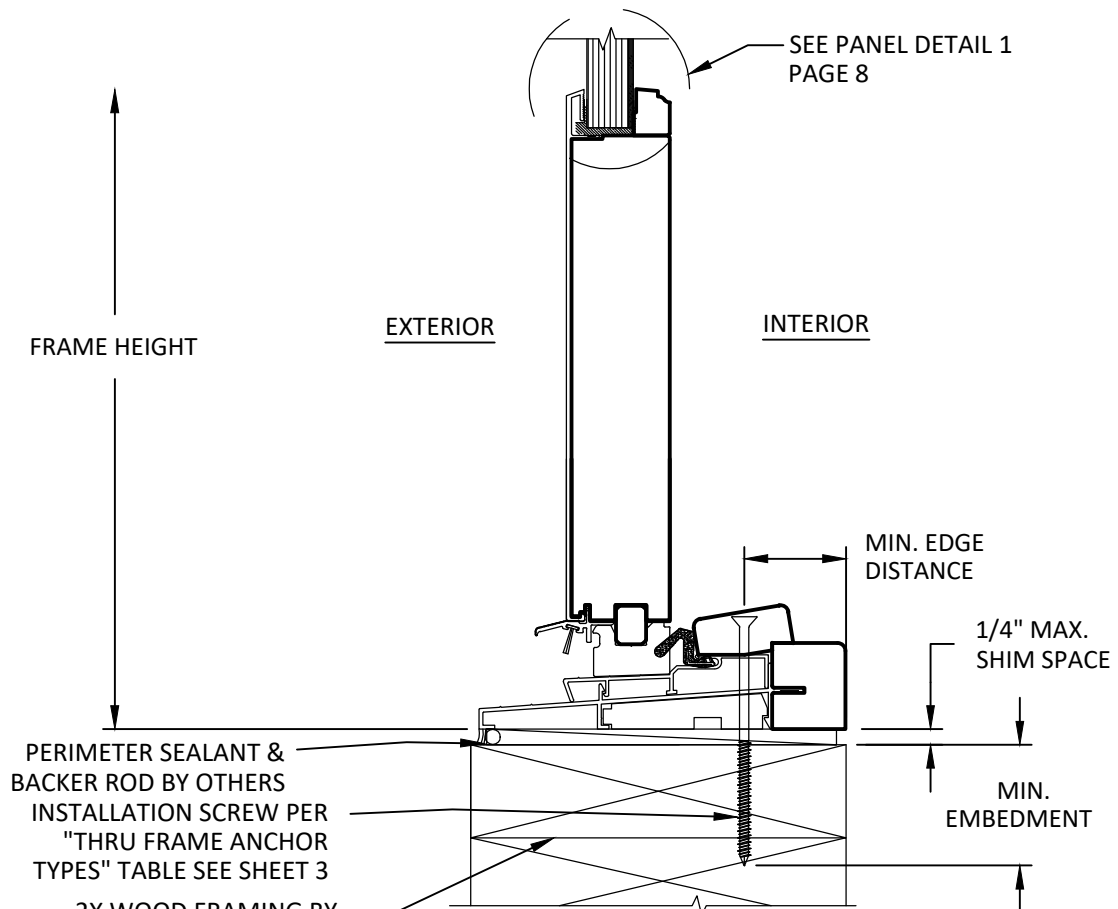
**A**  
**4** **VERTICAL SECTION**  
HEAD - FIN FRAME INSTALLATION  
(JAMBS ARE INSTALLED THE SAME)



**C**  
**4** **VERTICAL SECTION**  
MIDRAIL DETAIL



**B**  
**4** **VERTICAL SECTION**  
HEAD - THRU FRAME INSTALLATION  
(JAMBS ARE INSTALLED THE SAME)



**D**  
**4** **VERTICAL SECTION**  
SILL-THRU FRAME INSTALLATION



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(WZ3)(IMPACT)

VERTICAL SECTIONS

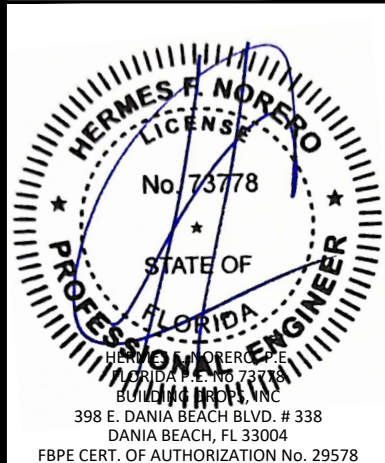
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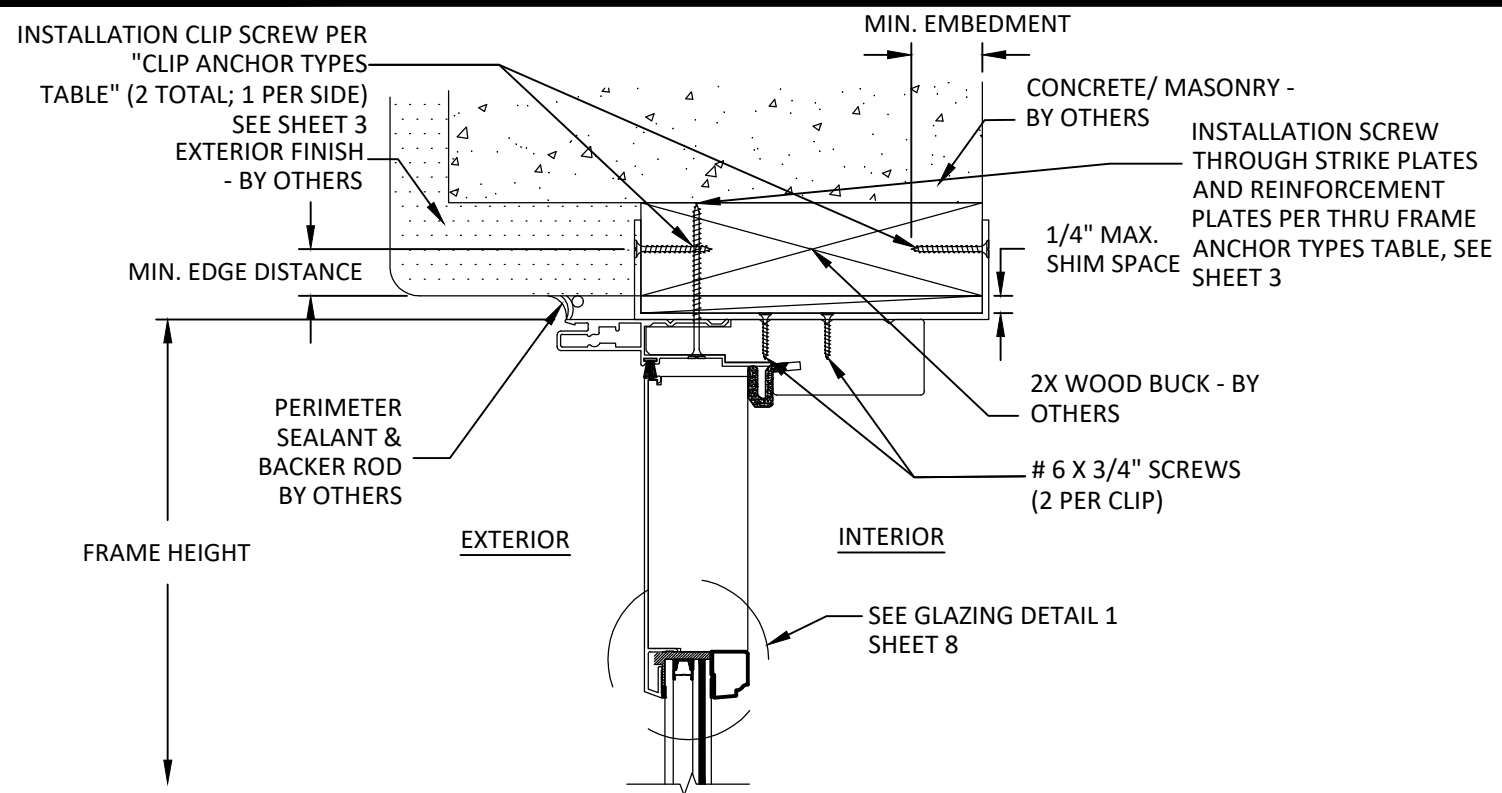
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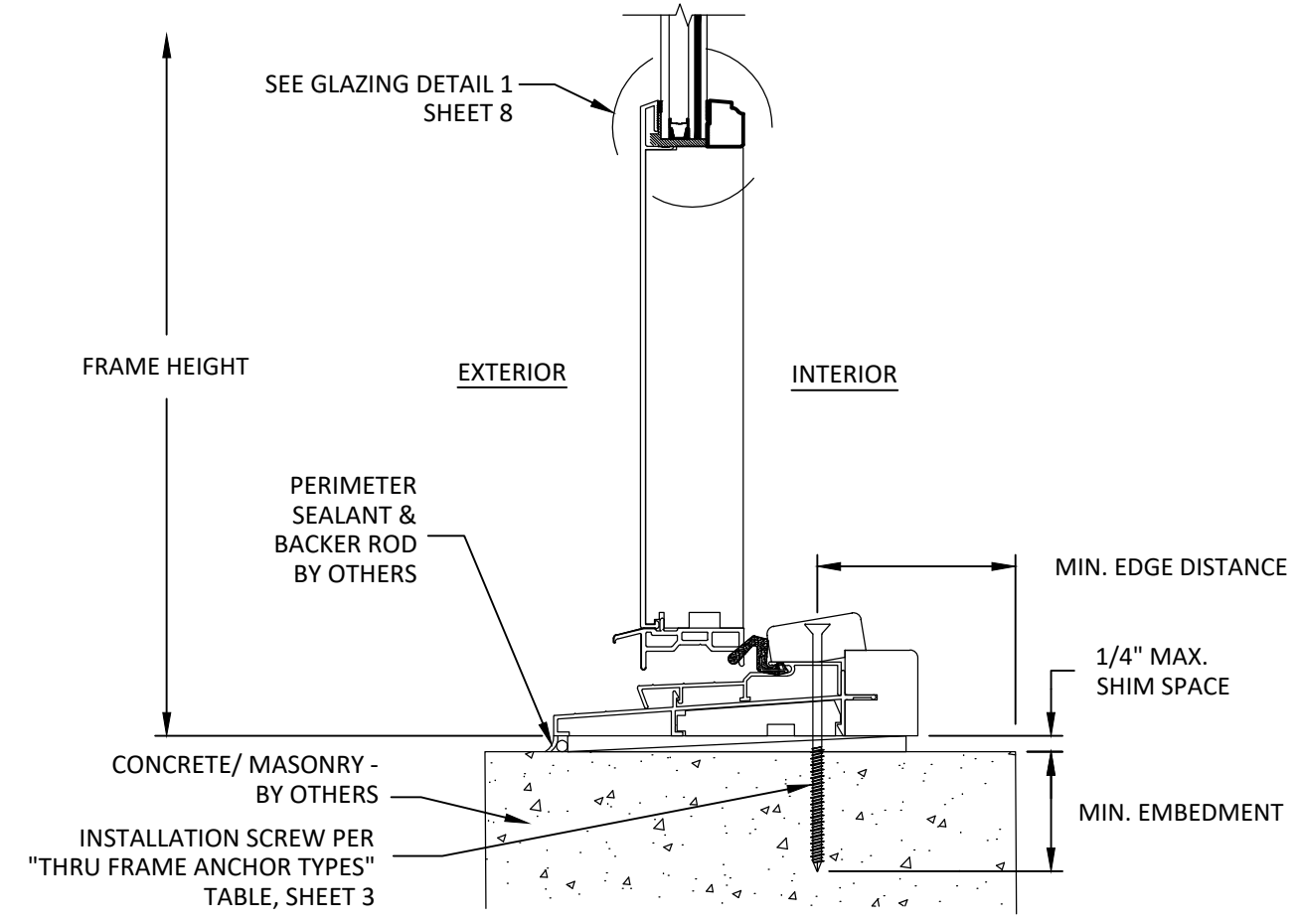


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SCALE:	NTS
DWG. #:	WWD048
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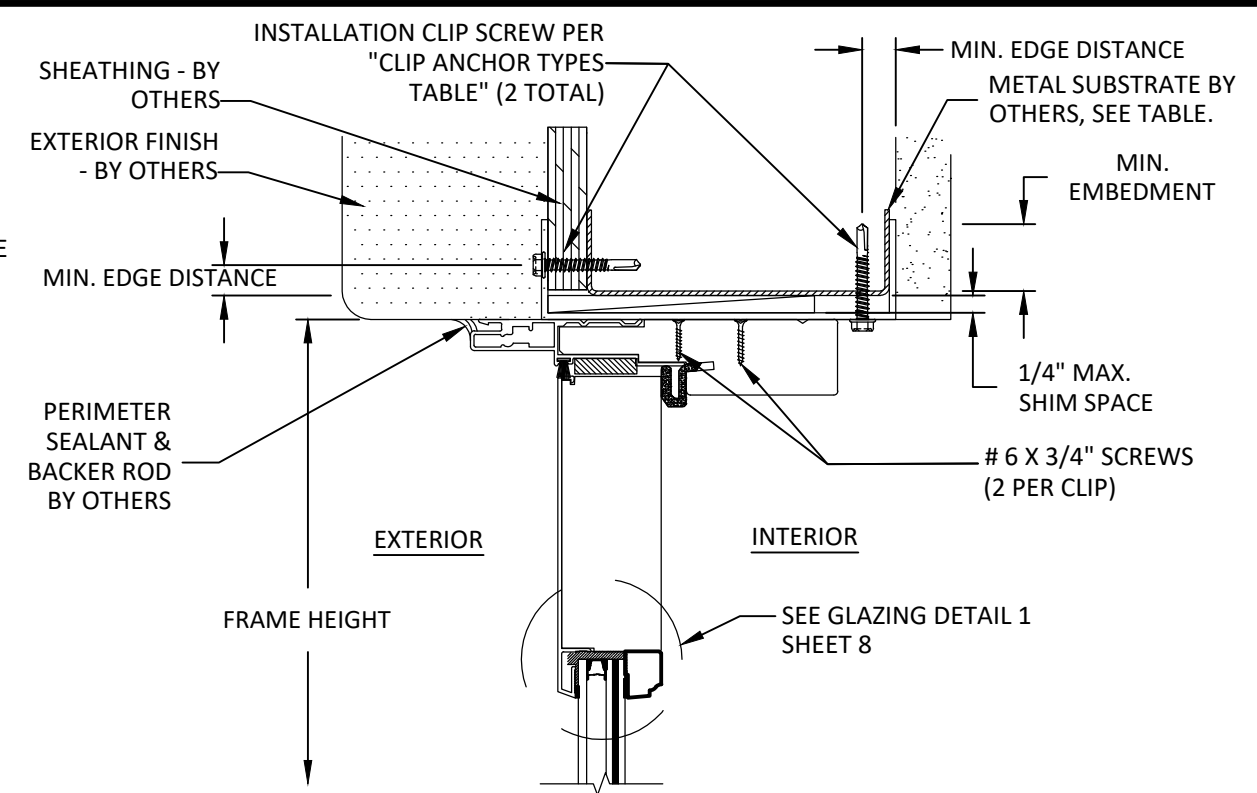
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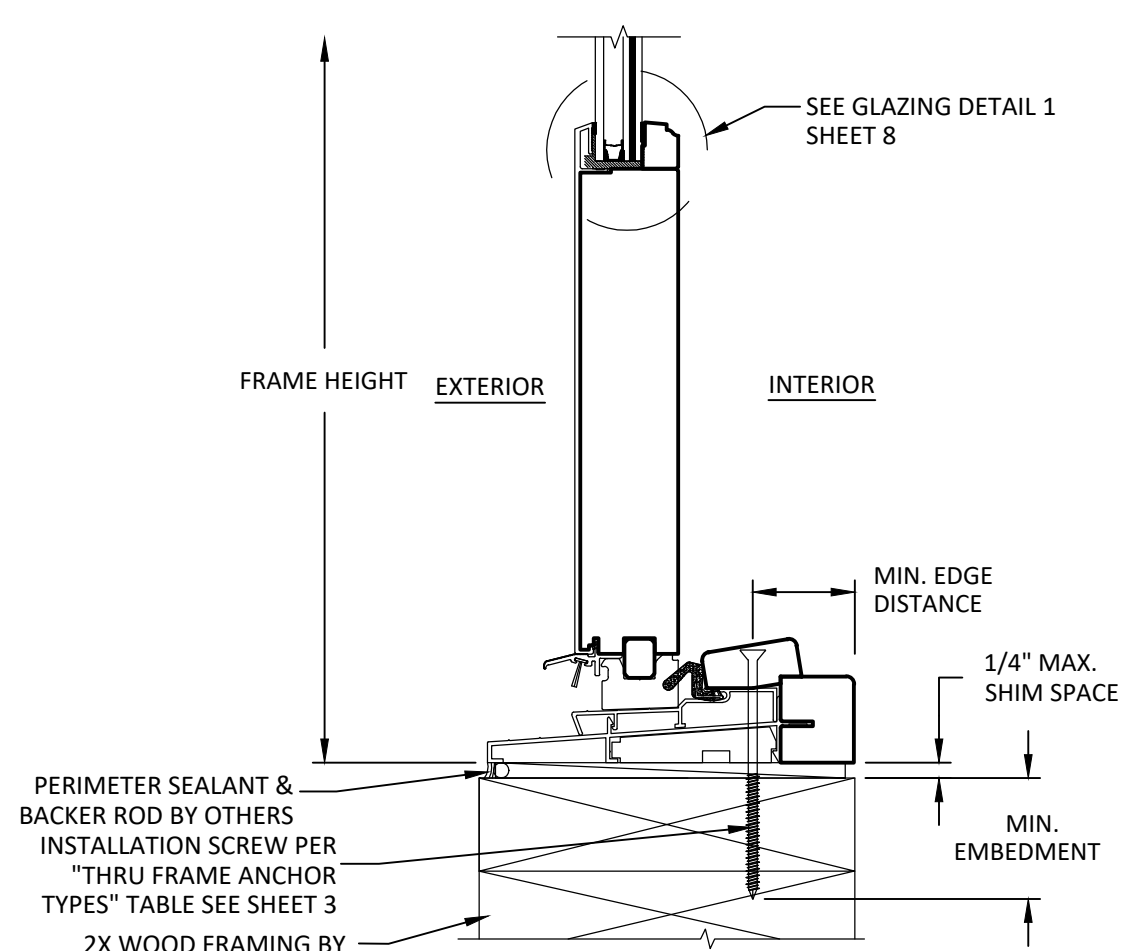
**A**  
**5** **VERTICAL SECTION**  
HEAD - CLIP INSTALLATION OPTION 1  
(JAMBS ARE INSTALLED THE SAME)




**C**  
**5** **VERTICAL SECTION**  
SILL - THRU FRAME INSTALLATION



**B**  
**5** **VERTICAL SECTION**  
HEAD - CLIP INSTALLATION OPTION 2  
(JAMBS ARE INSTALLED THE SAME)



**D**  
**5** **VERTICAL SECTION**  
SILL - THRU FRAME INSTALLATION




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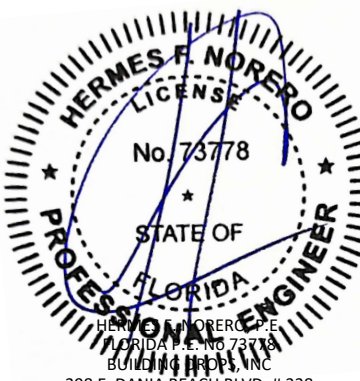
VERTICAL SECTIONS

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HERMES F. NORERO  
LICENSE  
No. 73778  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
HERMES F. NORERO, P.E.  
FLORIDA P.E. NO. 73778  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL11517**

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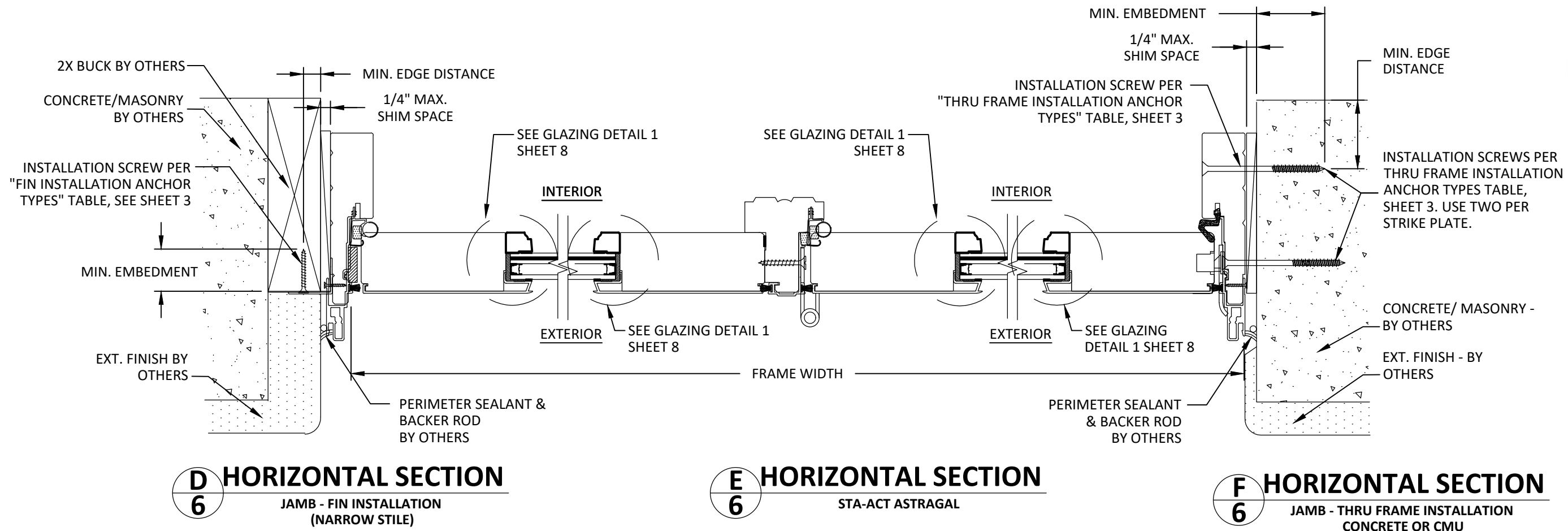
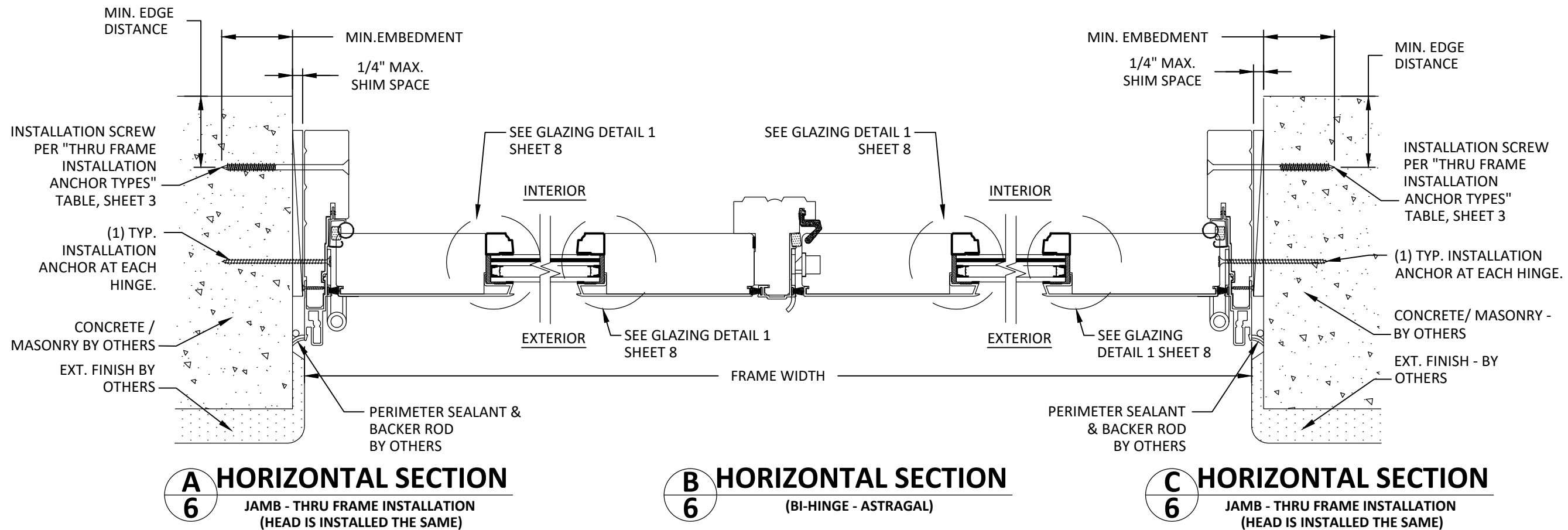
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HORIZONTAL SECTIONS

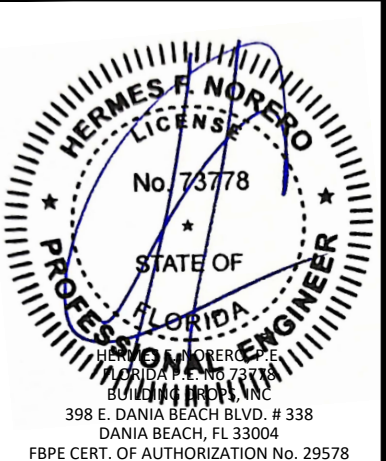
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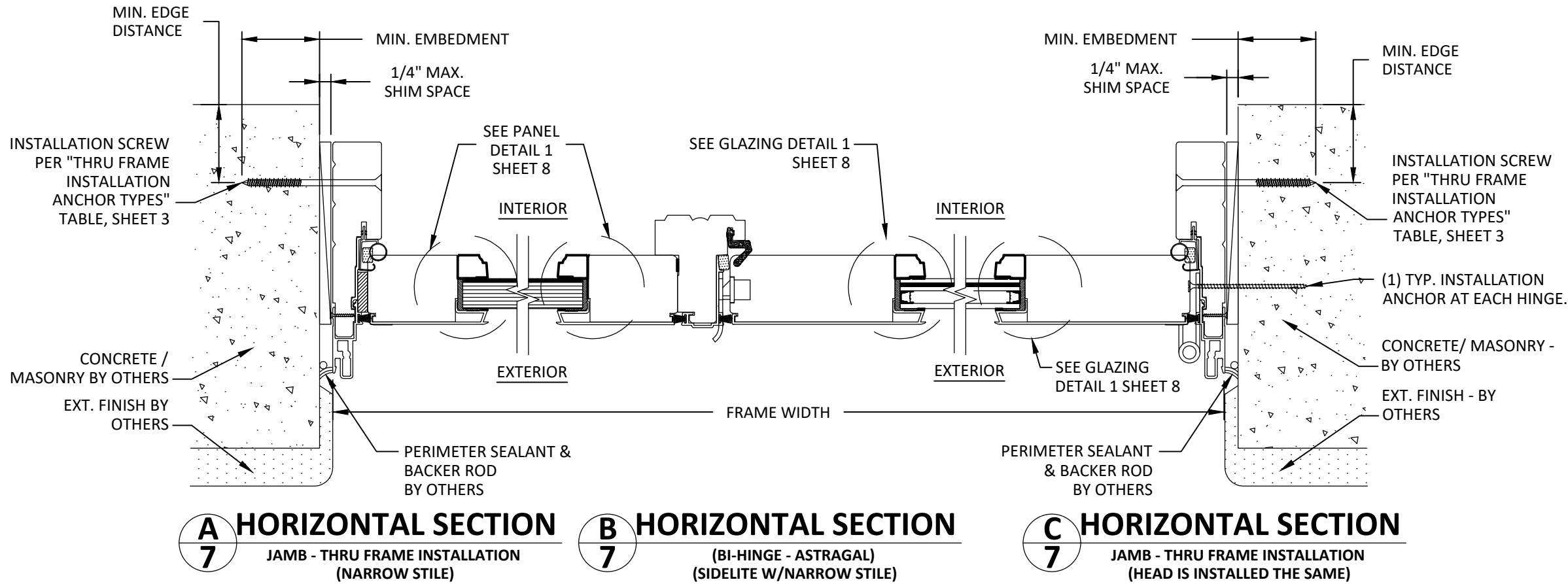
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HORIZONTAL SECTIONS  
(NARROW STILE)

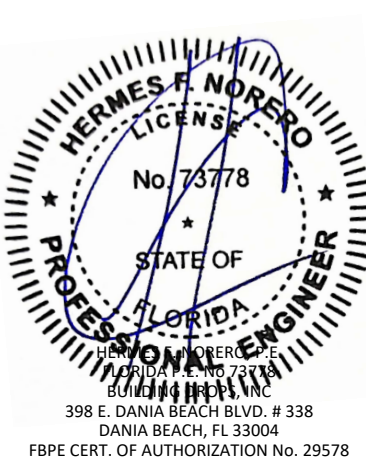
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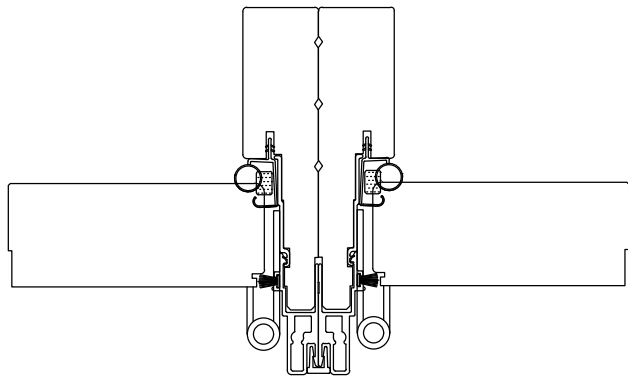
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2020 CODE CHANGE	YC	01.20
2023 CODE CHANGE	MG	02.23

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

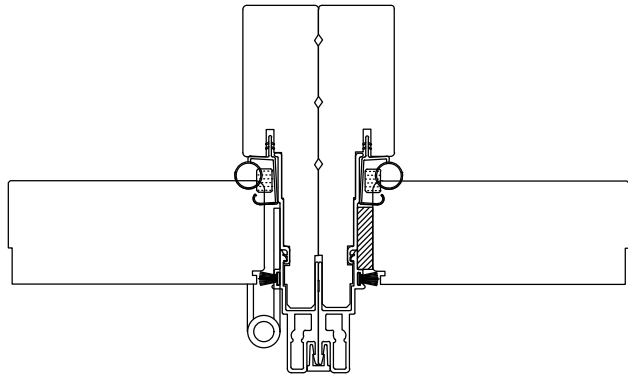


FL #:	FL11517
DATE:	06.25.2020
DWG. BY:	CHK. BY:
YC	HFN
SCALE:	NTS
DWG. #:	WWD048
SHEET:	7

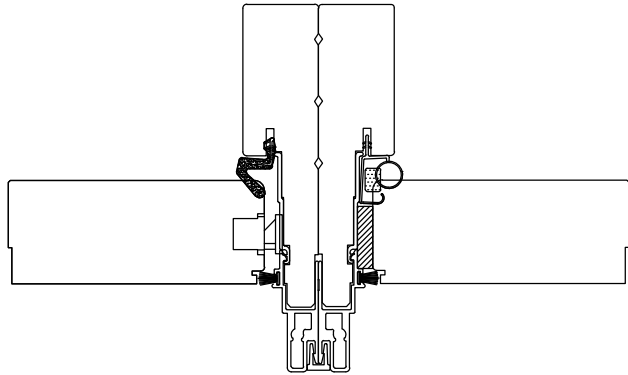
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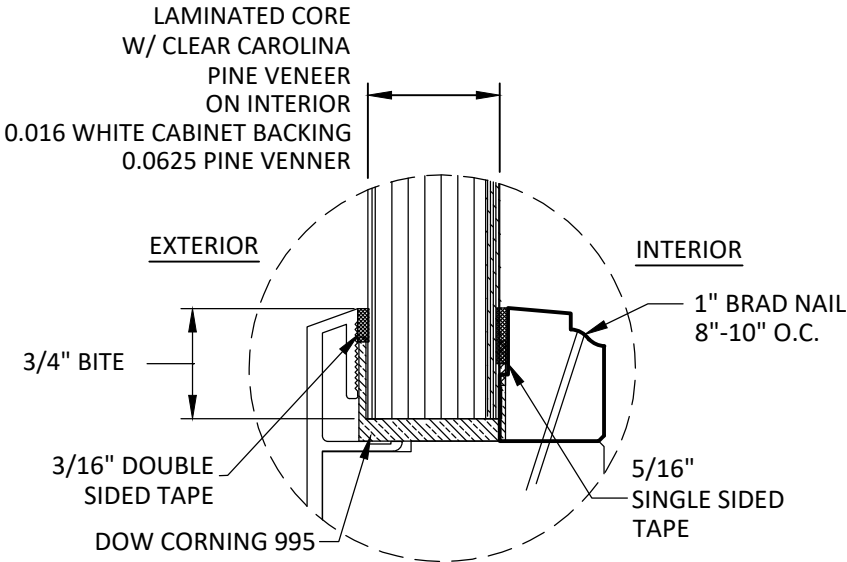
**BACK TO BACK MULLION**  
ACTIVE/ACTIVE



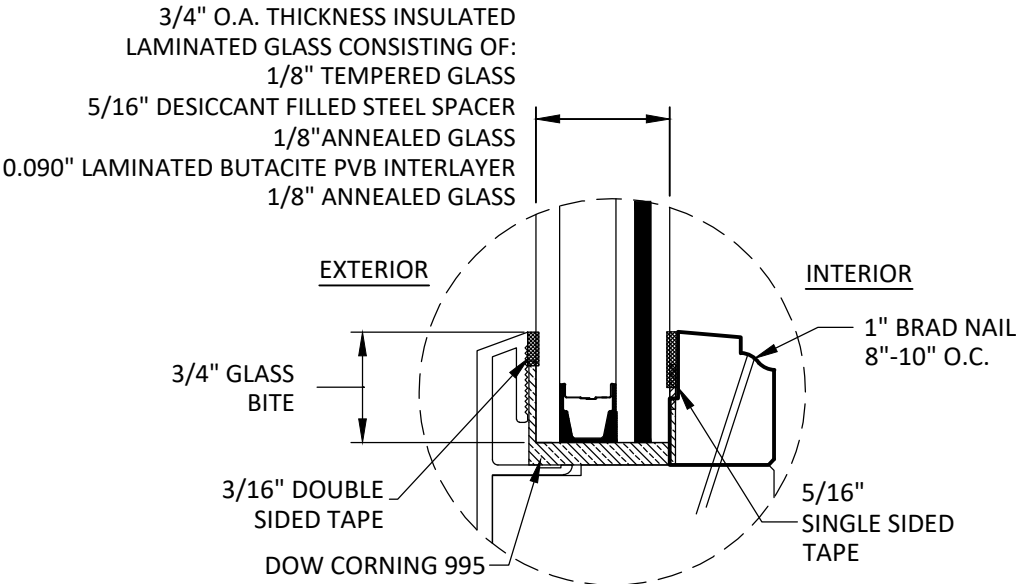
**BACK TO BACK MULLION**  
ACTIVE/INACTIVE



**BACK TO BACK MULLION**  
ACTIVE/INACTIVE



**PANEL DETAIL 1**



**GLAZING DETAIL 1**

**HARDWARE NOTES:**

**PINNACLE CLAD OS BI-HINGE DOOR**

(4) ADJUSTABLE HINGES INTO ASTRAGAL AT 7", 32-1/2", 57-1/2" & 83-1/2" FROM THE THRESHOLD. ACTIVE PANEL FIVE-POINT LOCKING SYSTEM WITH ENGAGEMENT POINTS AT 7", 38" & 74" ABOVE THE THRESHOLD WITH SHOOT BOLTS AT HEAD AND SILL. DEADBOLT LOCATED 34" ABOVE THE THRESHOLD. SPACING BETWEEN LOCK POINTS AND HINGES NOT TO BE EXCEEDED FOR ALTERNATE SIZES. SECONDARY ACTIVE PANEL WITH LEVER ACTIVATED SHOOT BOLTS AT HEAD AND SILL.

**PINNACLE CLAD OS ACTIVE-STATIONARY DOOR**

(4) ADJUSTABLE HINGES INTO ASTRAGAL AT 7", 32-1/2", 57-1/2" & 83-1/2" FROM THE THRESHOLD. ACTIVE PANEL MULTI-POINT LOCKING SYSTEM WITH ENGAGEMENT POINTS AT 7", 38" & 74" ABOVE THE THRESHOLD WITH SHOOT BOLTS AT HEAD AND SILL. DEAD BOLT LOCATED 34" ABOVE THE THRESHOLD. SPACING BETWEEN LOCK POINTS AND HINGES NOT TO BE EXCEEDED FOR ALTERNATE SIZES.



**WINDSOR WINDOWS & DOORS**

900 S. 19TH STREET.  
WEST DES MOINES, IA 50265  
PH: (515)223-6660 FAX: (515)224-1938

TITLE: PINNACLE CLAD OUTSWINGING DOOR (WZ3)(IMPACT)

GLAZING DETAILS AND HARDWARE NOTES

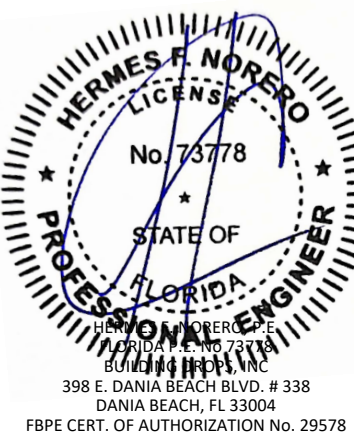
PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE
NARROW STILE	YC	01.20
2020 CODE CHANGE	YC	01.20
2023 CODE CHANGE	MG	02.23

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DWG. #: **WWD048**

SHEET: **8**