

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 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.
- 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.
- FOR INSTALLATION INTO WOOD FRAMING USE #12 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 1/4 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION THROUGH METAL STUD USE 1/4 INCH DIAMETER SELF-DRILLING SCREWS, GR. 5 OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
- FOR INSTALLATION THROUGH CONCRETE AT MULL STIFFENER ANCHOR PLATES, USE 3/8 INCH DIAMETER HILTI KWIK BOLT 3 EXPANSION ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE 2 1/2 INCH MINIMUM EMBEDMENT. INSTALLATION SHALL MAINTAIN MIN. 3" EDGE DISTANCE INTO CONCRETE.
- 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 SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SEALING WINDOWS AND ACCESSORY ITEMS.
- 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.
 - HOLLOW BLOCK MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, TYPE N, WITH MINIMUM COMPRESSIVE STRENGTH, f'm, OF 2000 PSI.
 - FULLY GROUTED MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. GROUT SHALL BE OF MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - AAMA/WDMA/CSA 101/1.S.2/A440-11
 - ASTM E1886-13
 - ASTM E1996-14
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL:
 - BRASS (MIN. Fy = 29 KSI, MIN. Fu = 50 KSI)
 - STEEL/PAINTED STEEL (MIN. Fy = 31 KSI, MIN. Fu = 72 KSI)
 - COR-TEN STEEL (MIN. Fy = 51 KSI, MIN. Fu = 74 KSI)
 - STAINLESS STEEL (MIN. Fy = 31 KSI, MIN. Fu = 76 KSI)
- ALL STRUCTURAL MATERIALS & DISSIMILIAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAILS.
- GLAZING SELECTION SHALL MEET SAFETY GLAZING REQUIREMENTS PER CHAPTER 24 OF CURRENT FBC.
- GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.

BROMBAL

FARO SERIES FIXED WINDOW

(HVHZ) (IMPACT)

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FIXED WINDOW DESIGN PRESSURE TABLE				
MAX. OVERALL SIZE	CONFIGURATION	MAX. DP	IMPACT RATING	GLAZING TYPE
120" X 144"	OO	+/-55 PSF	LMI	A & B
144" X 72"	O (ARCH TOP)	+/-55 PSF	LMI	A & B
SEE SHEET 6	O	VARIES	LMI	A & B

NOTE:

- LMI - LARGE MISSILE IMPACT RATED
- SEE SHEET 6 FOR DESIGN PRESSURE TABLE FOR ALTERNATE CONFIGURATIONS
- SEE SHEET 6 FOR GLAZING DETAILS

BROMBAL
LUXURY METAL WINDOWS AND DOORS

BROMBAL SRL
VIA VALLA, 24
31030 CASELLE DI ALTIVOLE

TITLE: FARO 65 SERIES FIXED WINDOW
(HVHZ) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

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REMARKS	BY	DATE
FBC UPDATE	SM	10.19.22

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2022.10.19 14:56:51 -0400



FL #:
FL18656

DATE: **10.09.15**

DWG. BY: **LMS** CHK. BY: **HFN**

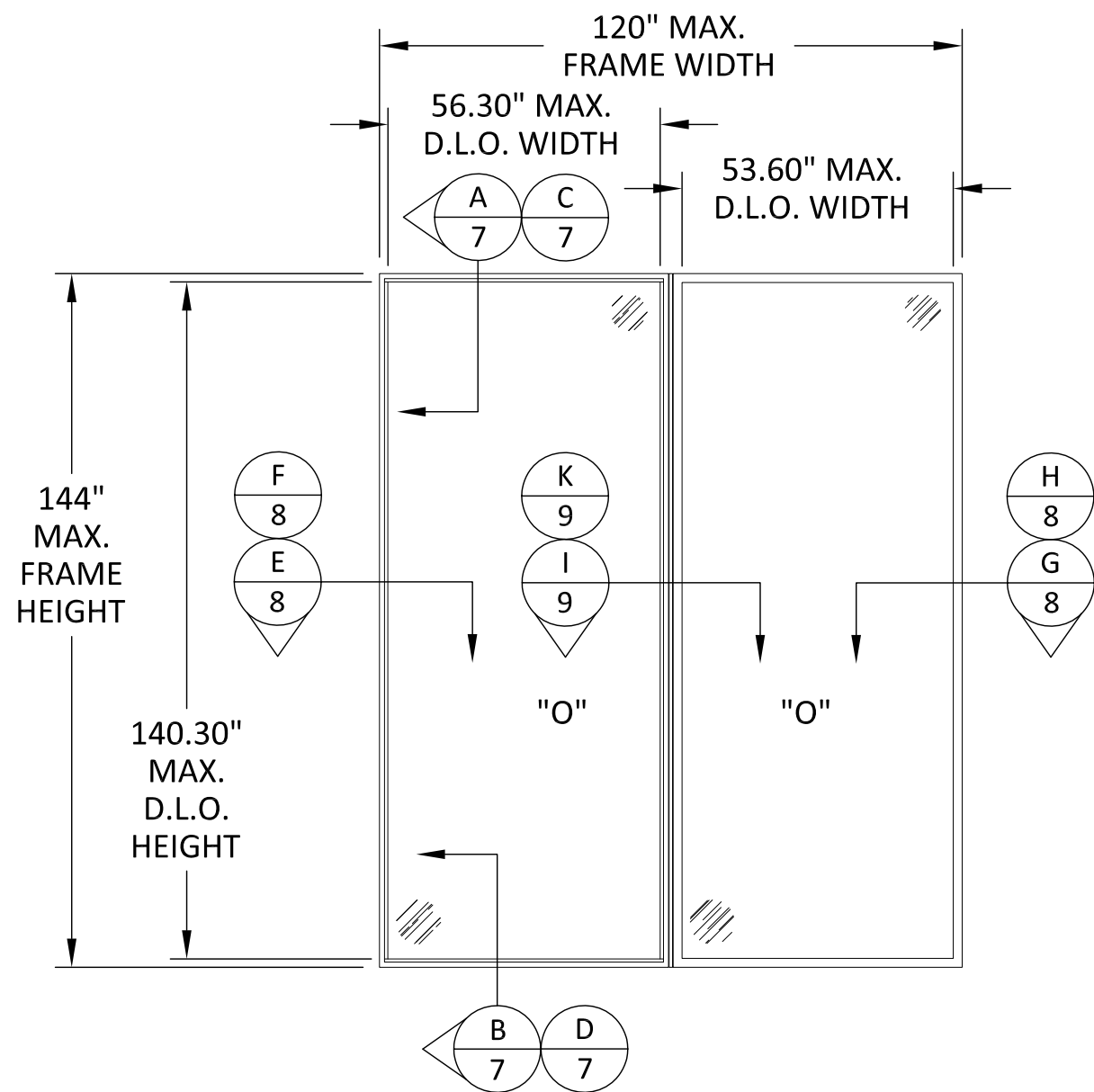
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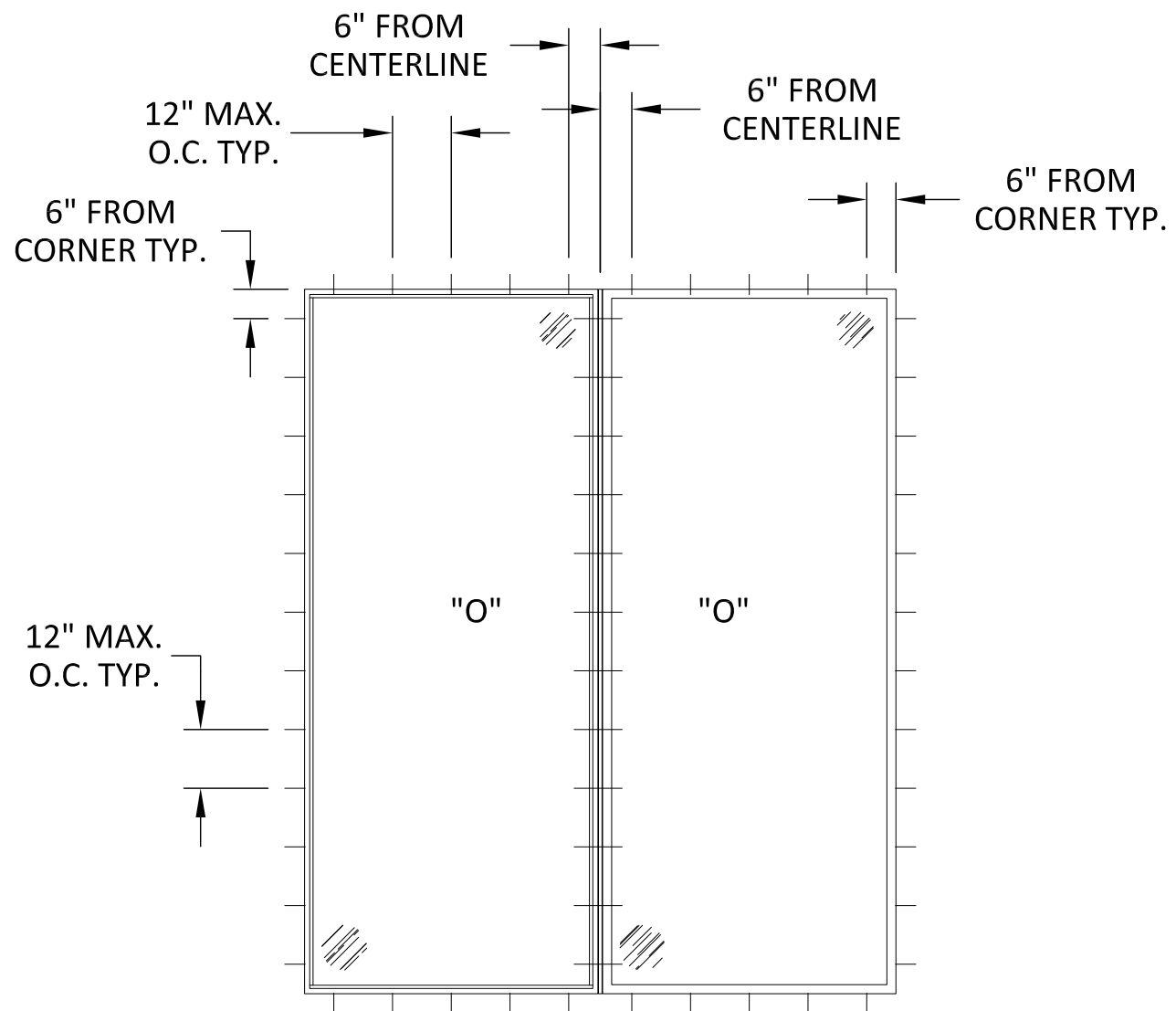
SHEET:

1

OF 10



ELEVATION
FIXED WINDOW



ANCHOR LAYOUT
FIXED WINDOW

NOTE: THROUGH FRAME, ANCHOR STRAP, OR DEFLECTION ANCHOR (HEAD ONLY) INSTALLATION SHOWN ABOVE. REFER TO SHEET 10 FOR NAIL FIN INSTALLATION ANCHOR LAYOUT.

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LUXURY METAL WINDOWS AND DOORS

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(HVHZ) (IMPACT)

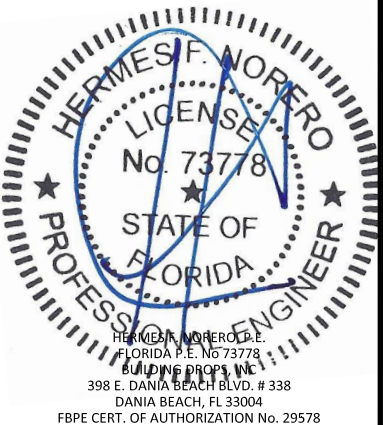
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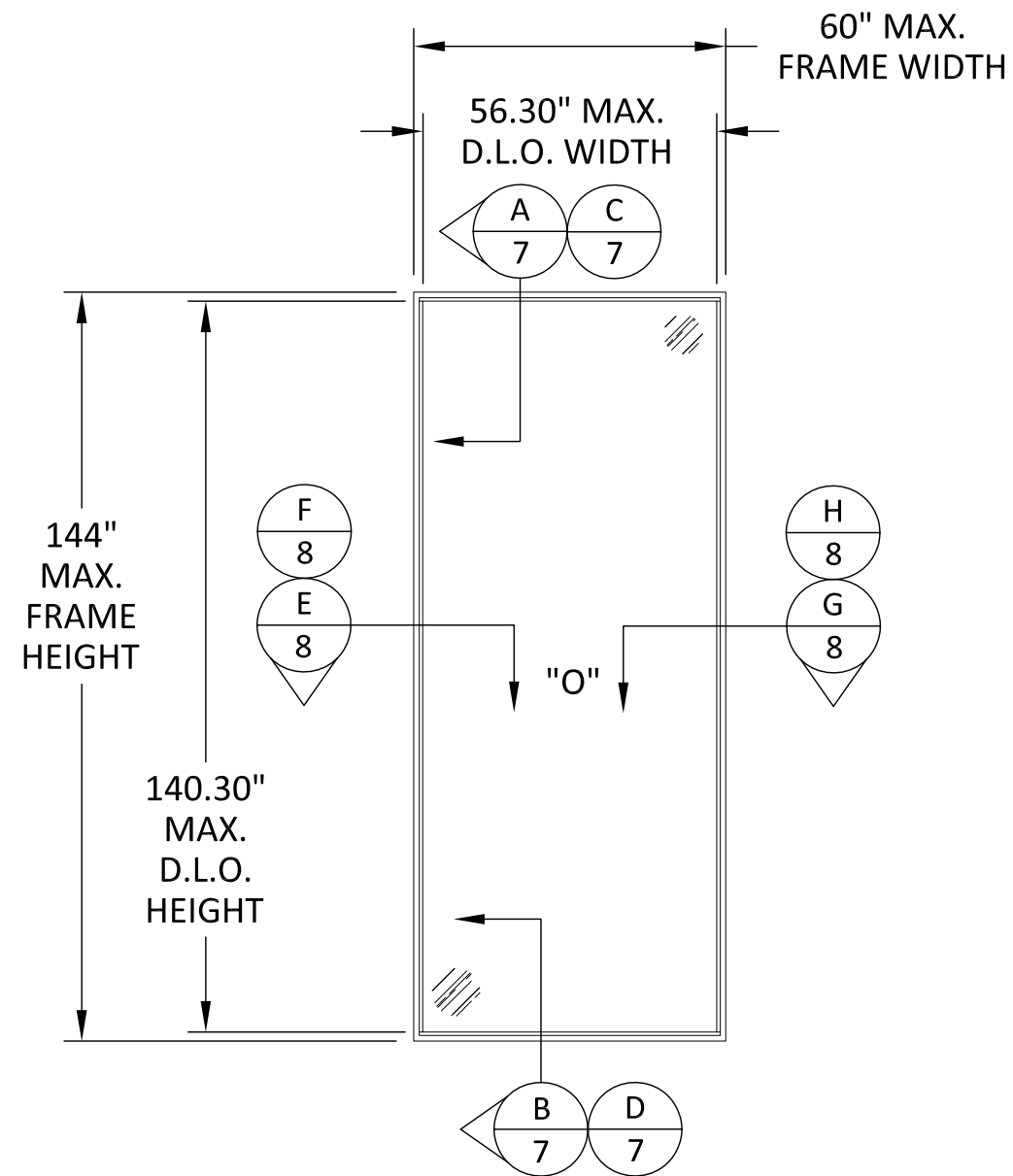
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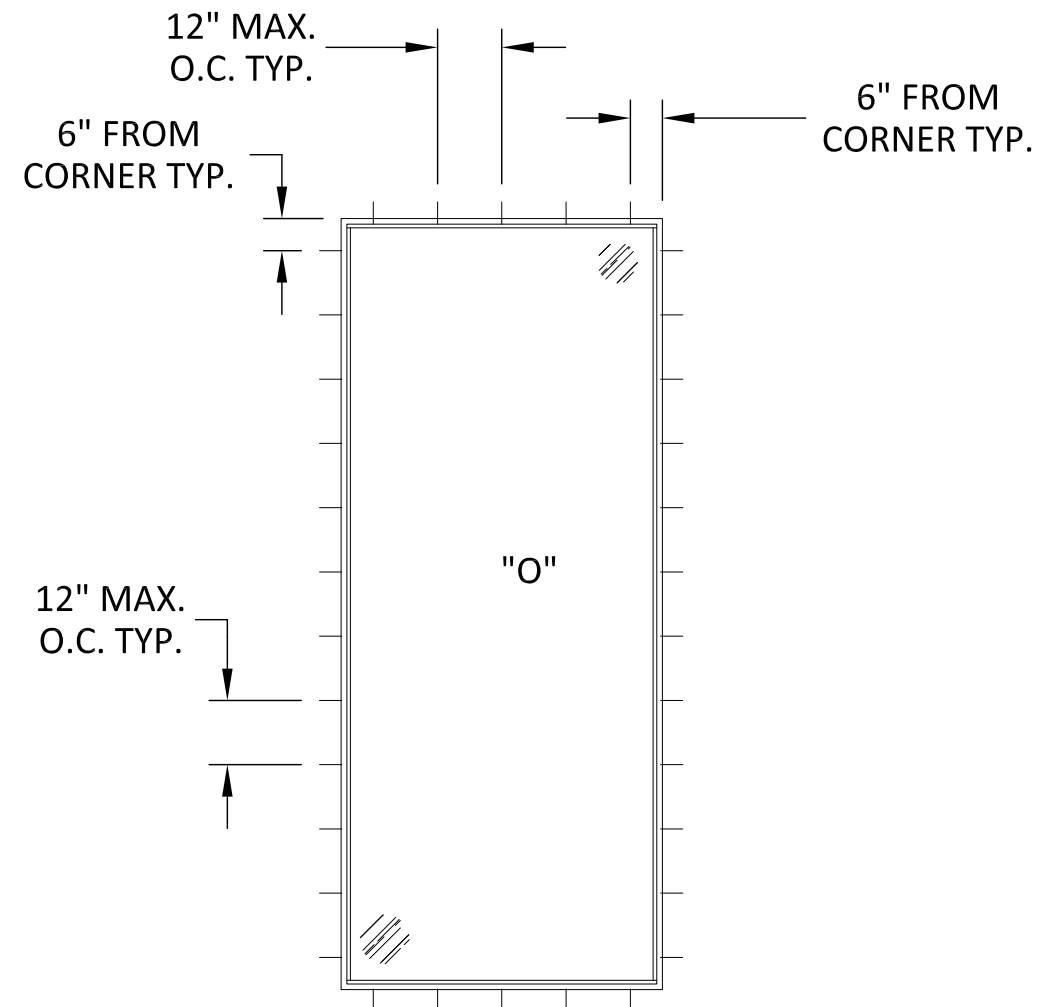
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SHEET:
2

OF 10



ELEVATION
FIXED WINDOW



ANCHOR LAYOUT
FIXED WINDOW

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LUXURY METAL WINDOWS AND DOORS

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31030 CASELLE DI ALTIVOLE

TITLE: FARO 65 SERIES FIXED WINDOW
(HVHZ) (IMPACT)

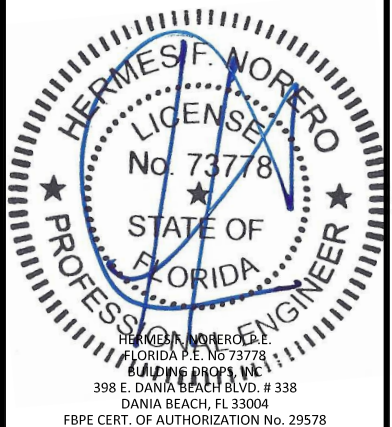
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DWG. #: **BRB006**

SHEET: **3**

TITLE: FARO 65 SERIES FIXED WINDOW
(HVHZ) (IMPACT)

ELEVATIONS & ANCHOR LAYOUTS

PREPARED BY:

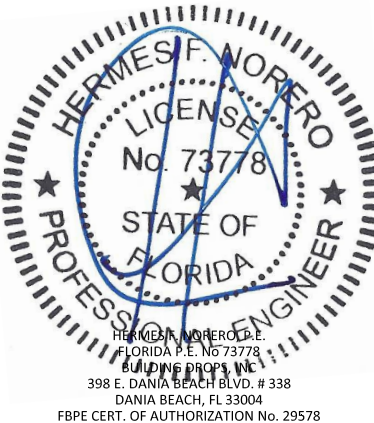
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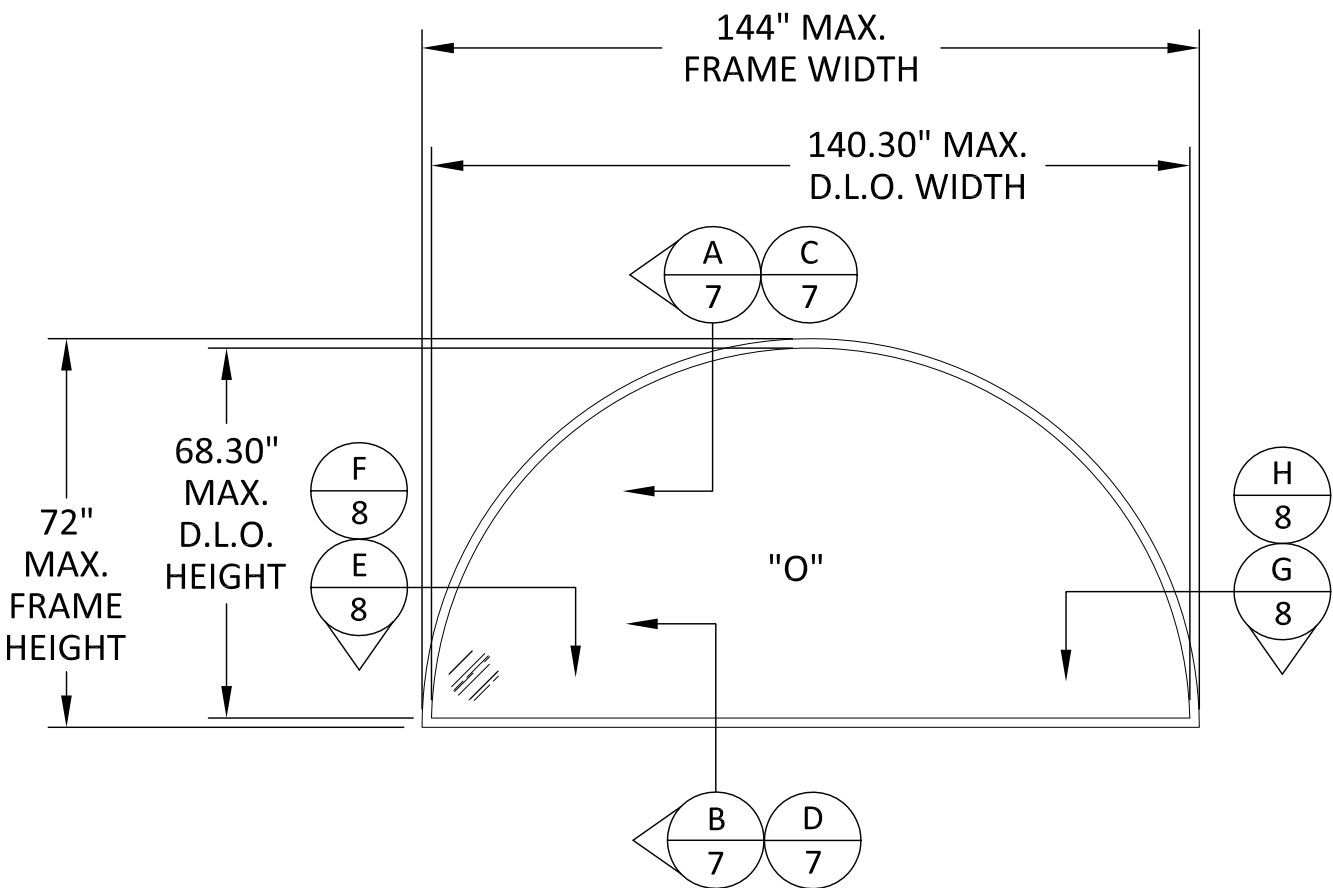
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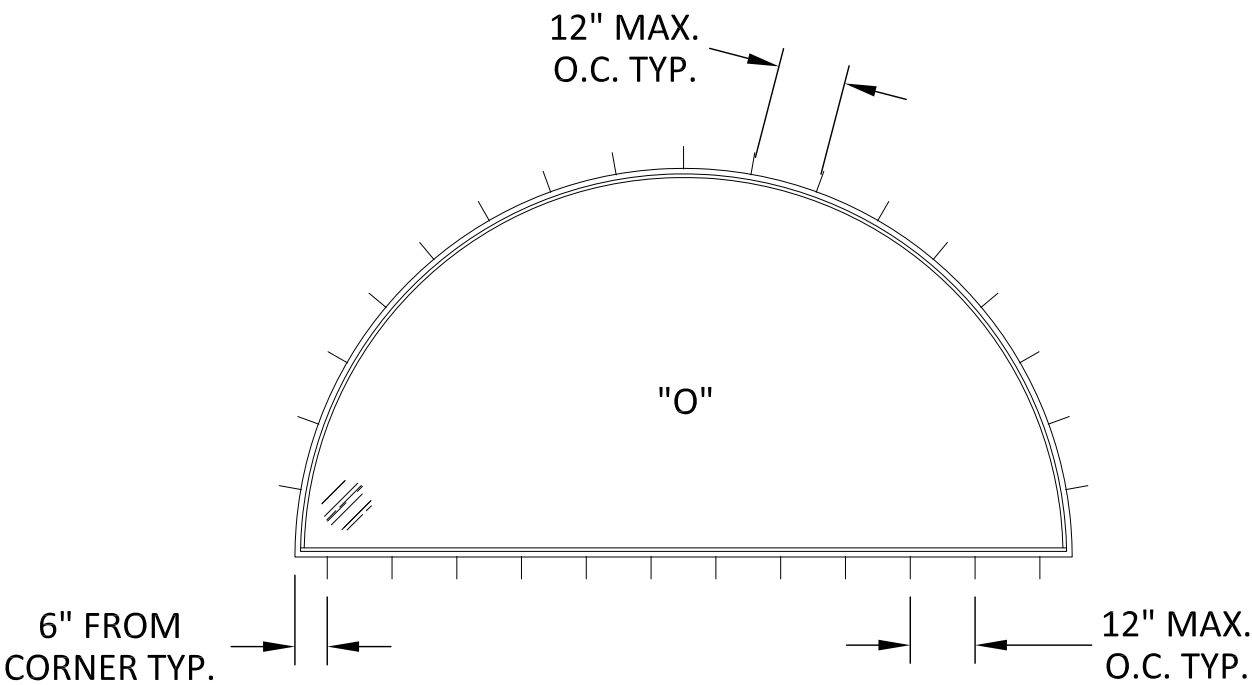
SHEET:

4

OF 10



ELEVATION
ARCHED FIXED WINDOW
DP +/- 55 PSF



ANCHOR LAYOUT
ARCHED FIXED WINDOW

NOTE: THROUGH FRAME, ANCHOR STRAP, OR DEFLECTION ANCHOR (HEAD ONLY) INSTALLATION SHOWN ABOVE. REFER TO SHEET 10 FOR NAIL FIN INSTALLATION ANCHOR LAYOUT.

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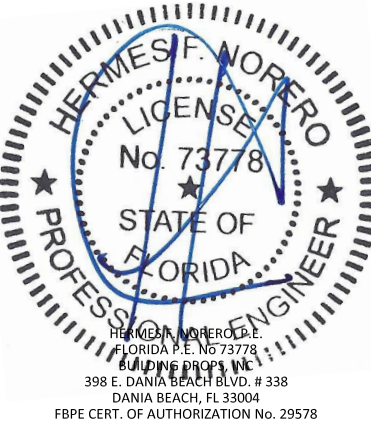
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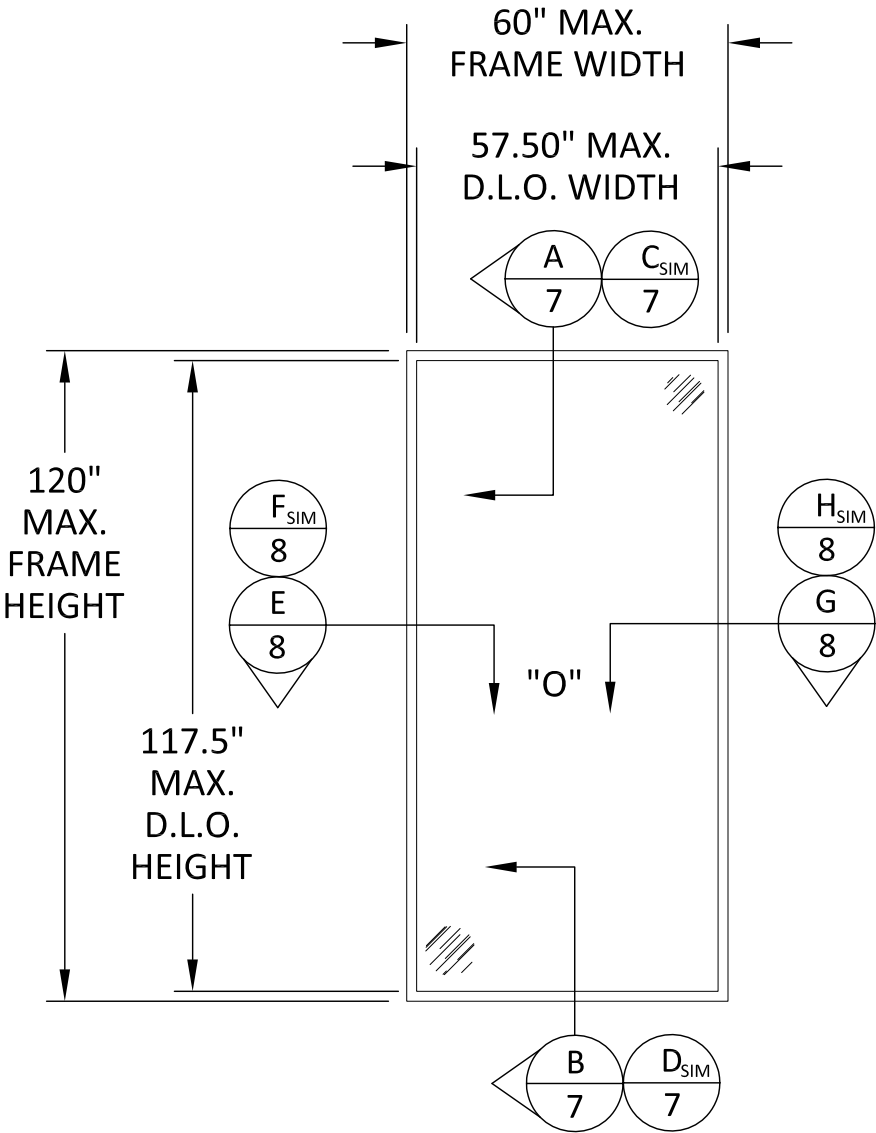
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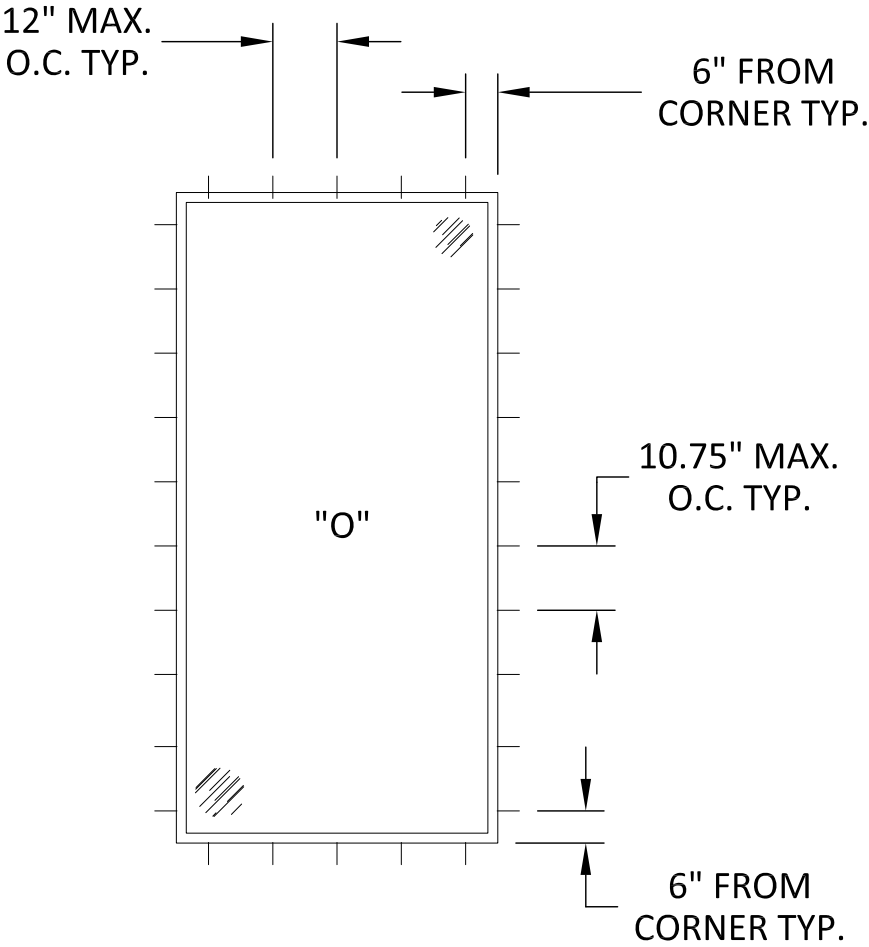
SHEET:

5

OF 10



ELEVATION
FIXED WINDOW



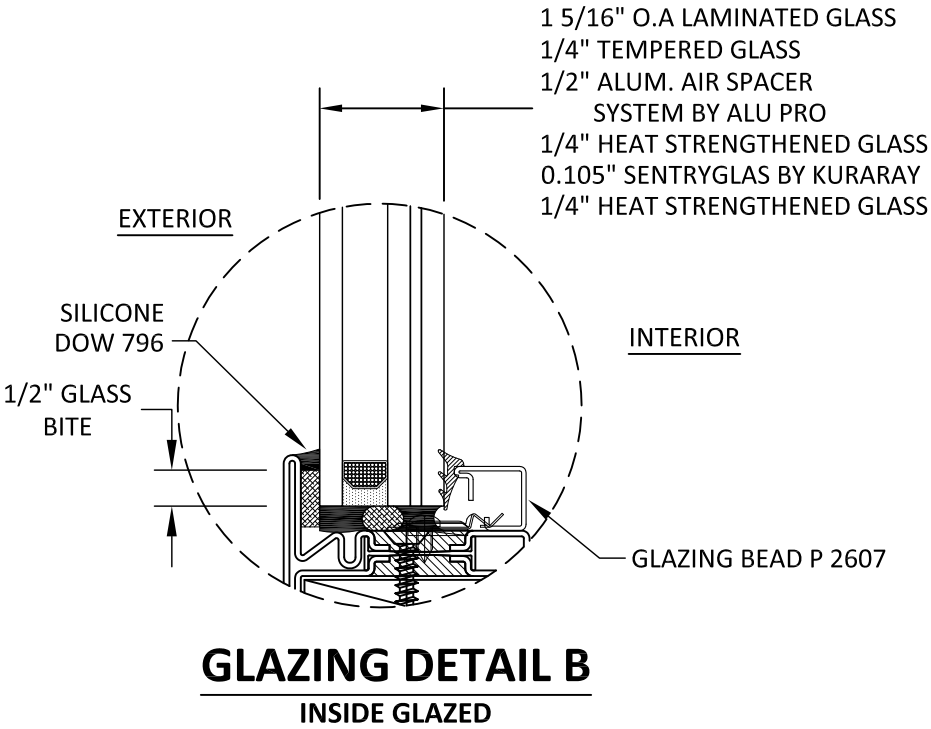
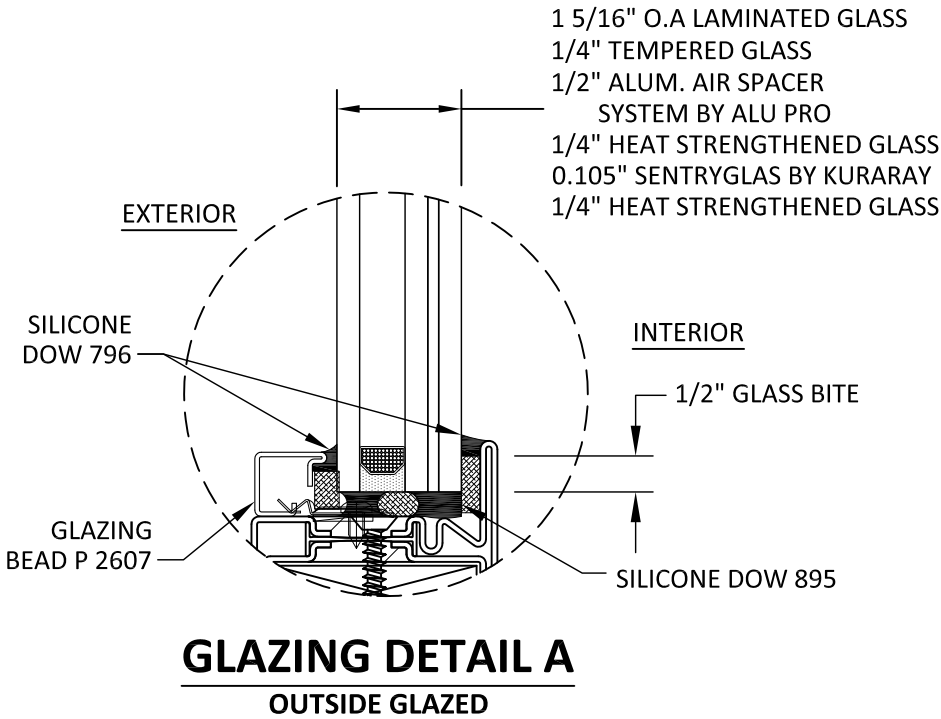
ANCHOR LAYOUT
FIXED WINDOW

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ALLOWABLE DESIGN PRESSURE CAPACITY TABLE

Comparative Analysis (ULD) Allowable Design Pressure																						
H - Unit Height	W - Unit Width																					
	18.00	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00	138.00	144.00
48.00	75.0	75.0	75.0	75.0	75.0	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.0	67.2	66.5	65.9	65.3
54.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	60.8	60.1	59.5
60.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
66.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	-	-	-
72.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	-	-	-	-
78.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	45.8	42.3	42.3	42.3	42.3	42.3	42.3	-	-	-	-	-	-
84.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	45.8	42.3	39.3	39.3	39.3	39.3	-	-	-	-	-	-	-
90.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	45.8	42.3	39.3	36.7	36.7	-	-	-	-	-	-	-	-
96.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	45.8	42.3	39.3	36.7	-	-	-	-	-	-	-	-	-
102.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	45.8	42.3	39.3	-	-	-	-	-	-	-	-	-	-
108.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	45.8	42.3	-	-	-	-	-	-	-	-	-	-	-
114.00	75.0	75.0	75.0	75.0	75.0	68.8	61.1	55.0	50.0	45.8	-	-	-	-	-	-	-	-	-	-	-	-
120.00	75.0	75.0	75.0	75.0	75.0	68.0	61.1	55.0	50.0	45.8	-	-	-	-	-	-	-	-	-	-	-	-
126.00	75.0	75.0	75.0	75.0	74.6	67.2	61.1	55.0	50.0	-	-	-	-	-	-	-	-	-	-	-	-	-
132.00	75.0	75.0	75.0	75.0	74.0	66.5	60.8	55.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138.00	75.0	75.0	75.0	75.0	73.4	65.9	60.1	55.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144.00	75.0	75.0	75.0	75.0	72.8	65.3	59.5	55.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- NOTE:
- DESIGN PRESSURES WERE EVALUATED IN ACCORDANCE WITH CHAPTER 17 OF THE CURRENT FBC.
 - DESIGN PRESSURES MAY BE READ AS POSITIVE OR NEGATIVE.
 - DESIGN PRESSURES APPLY FOR INDIVIDUAL WINDOW UNITS. MULLED CONFIGURATIONS SHALL BE EVALUATED SEPARATELY.



- GLAZING NOTES:
- GLASS THICKNESS AND TYPE COMPLIES WITH ASTM E1300 GLASS CHART REQUIREMENTS.
 - GLASS TYPE COMPLIES WITH FBC SAFETY GLAZING REQUIREMENTS.
 - USE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS AT SILL FOR UNITS OVER 3 FEET IN WIDTH

BROMBAL
LUXURY METAL WINDOWS AND DOORS

BROMBAL SRL
VIA VALLA, 24
31030 CASELLE DI ALTIVOLE

TITLE: FARO 65 SERIES FIXED WINDOW
(HVHZ) (IMPACT)

DESIGN PRESSURE TABLE
& GLAZING DETAILS

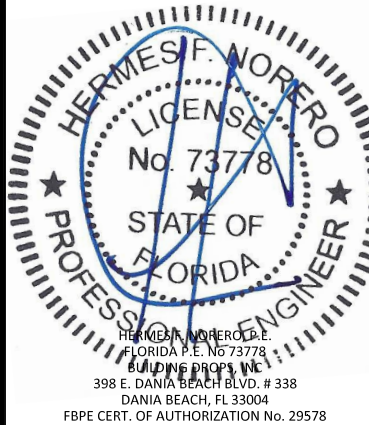
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REMARKS	BY	DATE
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SCALE: **NTS**

DWG. #: **BRB006**

SHEET:

6

TITLE: FARO 65 SERIES FIXED WINDOW
(HVHZ) (IMPACT)

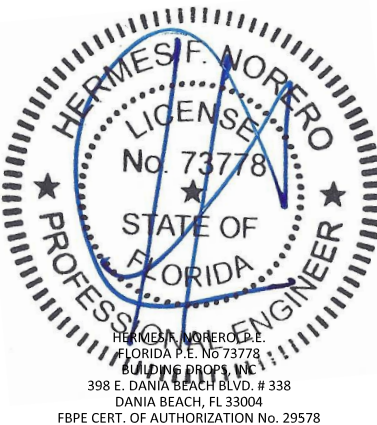
VERTICAL SECTIONS

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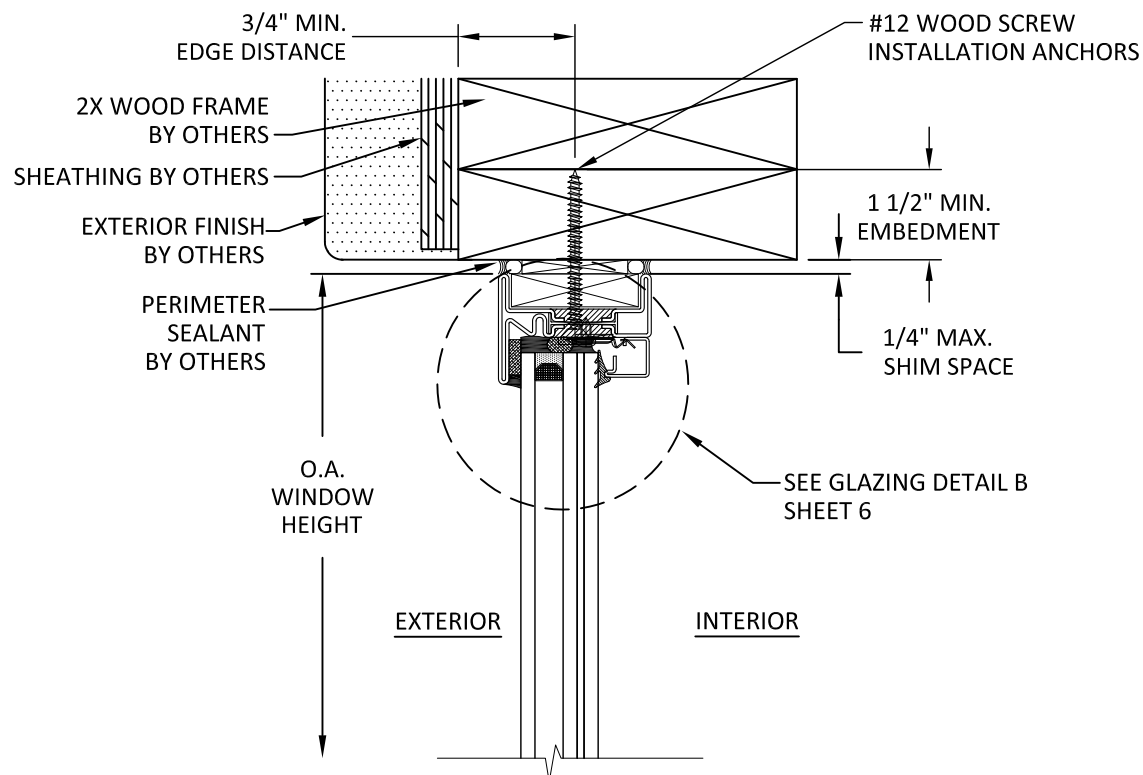
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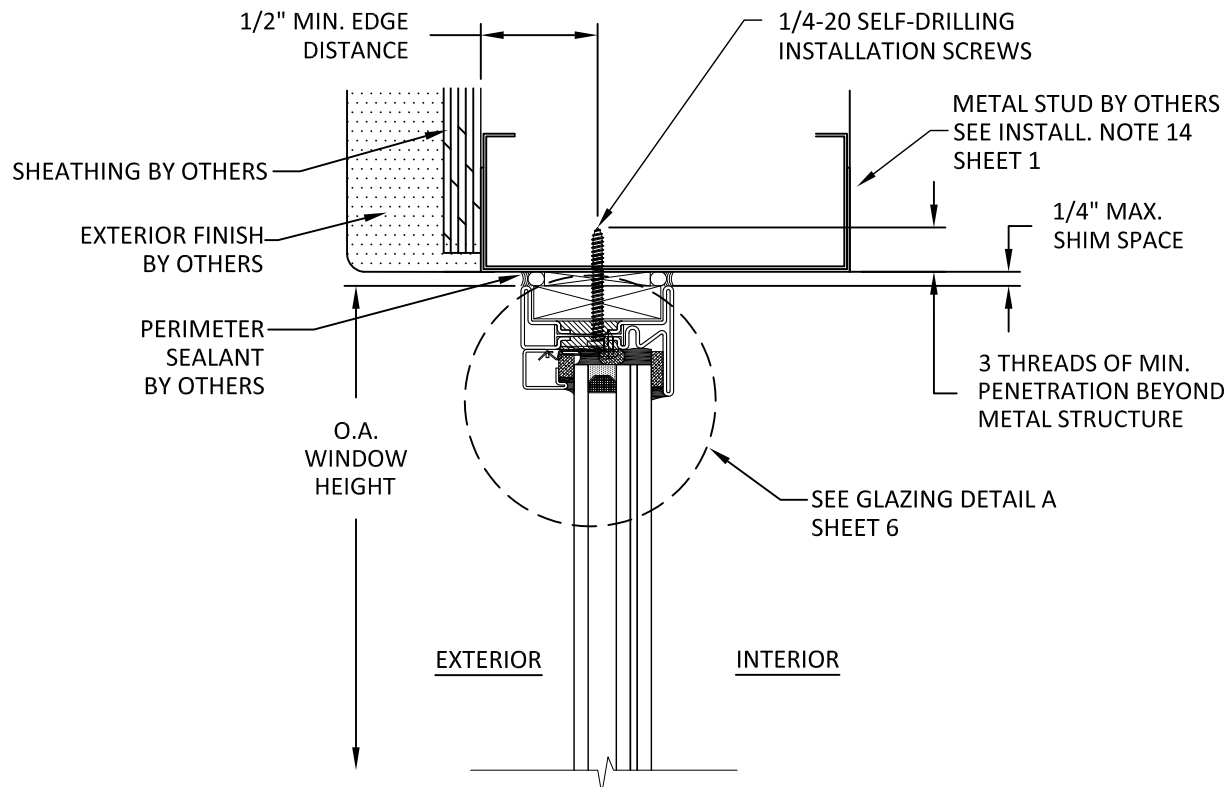
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7

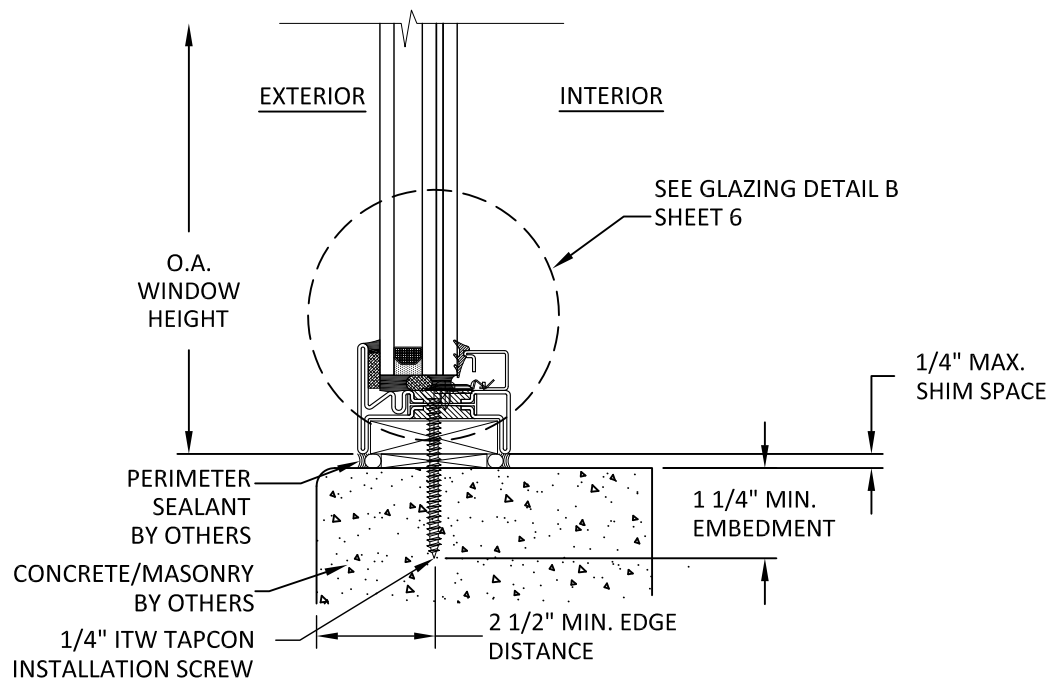
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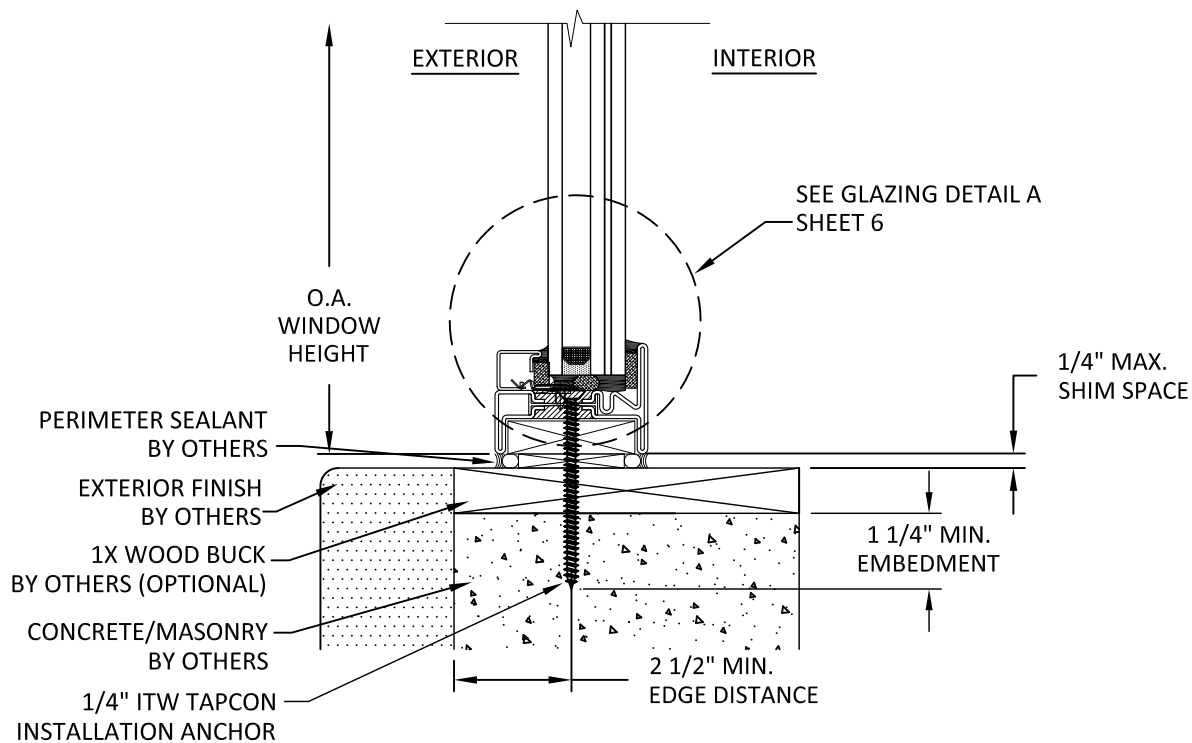
A
7 **VERTICAL SECTION**
FIXED HEAD - 2X WOOD FRAME
INSIDE GLAZED



C
7 **VERTICAL SECTION**
FIXED HEAD - METAL STUD FRAME
OUTSIDE GLAZED



B
7 **VERTICAL SECTION**
FIXED SILL - CONCRETE/MASONRY
INSIDE GLAZED



D
7 **VERTICAL SECTION**
FIXED SILL - 1X WOOD BUCK / CONCRETE/MASONRY
OUTSIDE GLAZED

TITLE: FARO 65 SERIES FIXED WINDOW
(HVHZ) (IMPACT)

HORIZONTAL SECTIONS

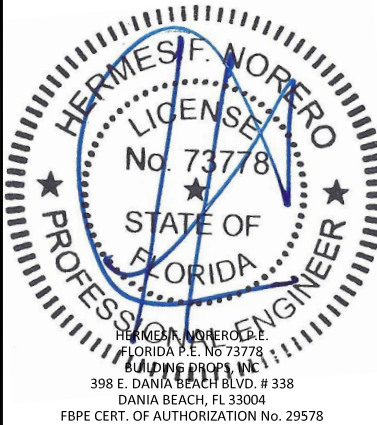
PREPARED BY: BUILDING DROPS, INC.

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
FBC UPDATE	SM	10.19.22

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FL #: **FL18656**

DATE: **10.09.15**

DWG. BY: **LMS** CHK. BY: **HFN**

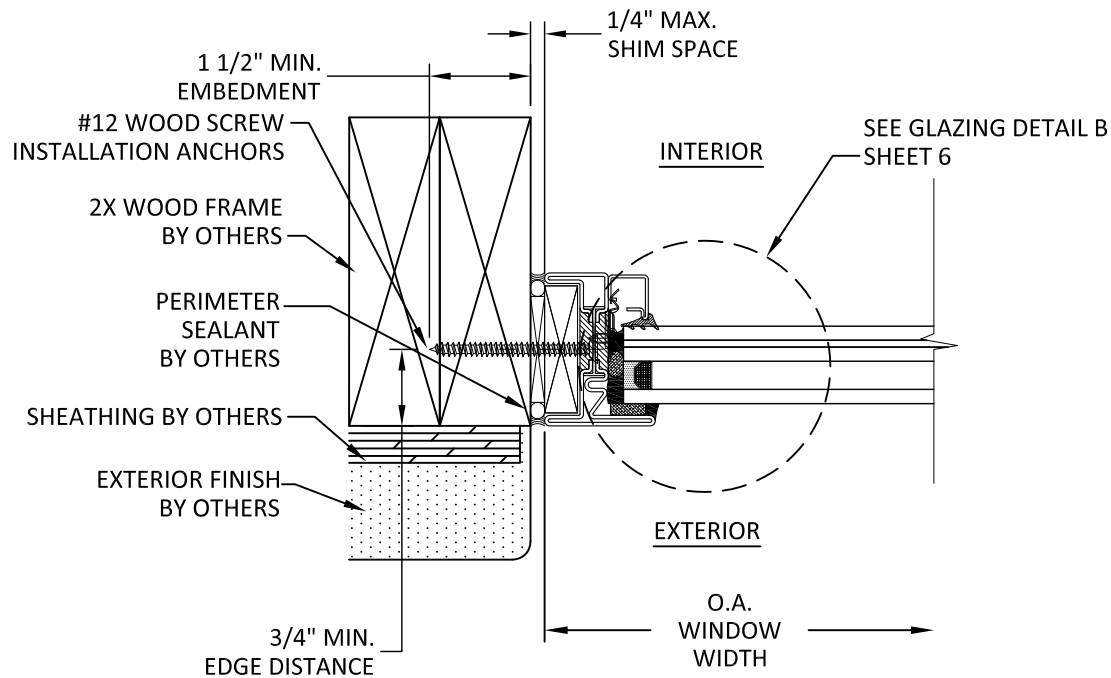
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DWG. #: **BRB006**

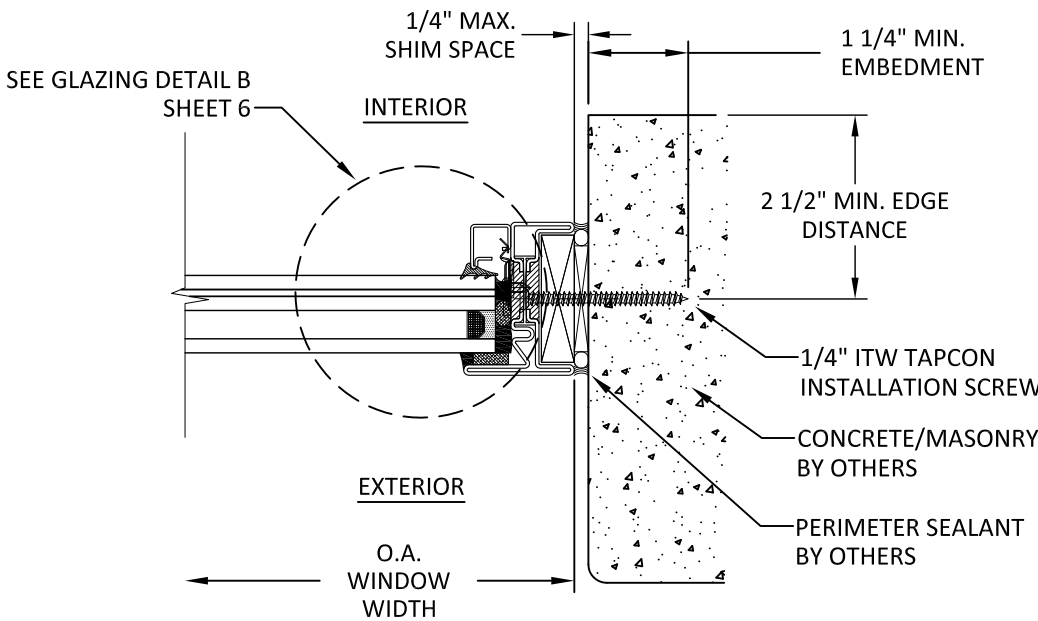
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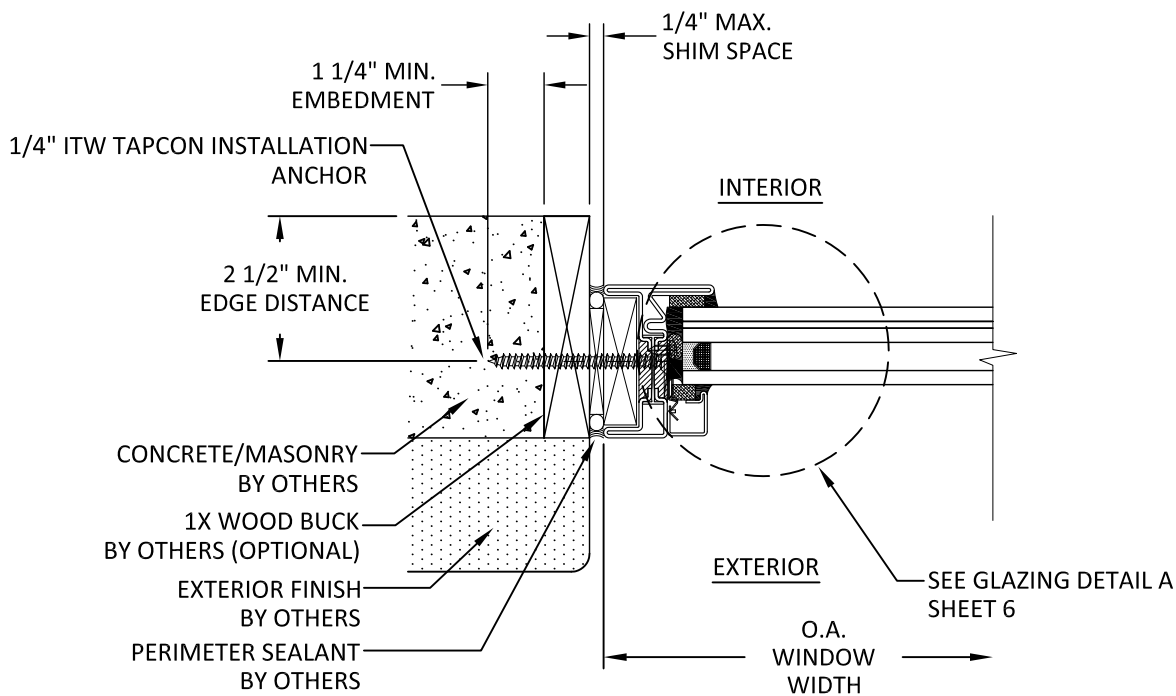
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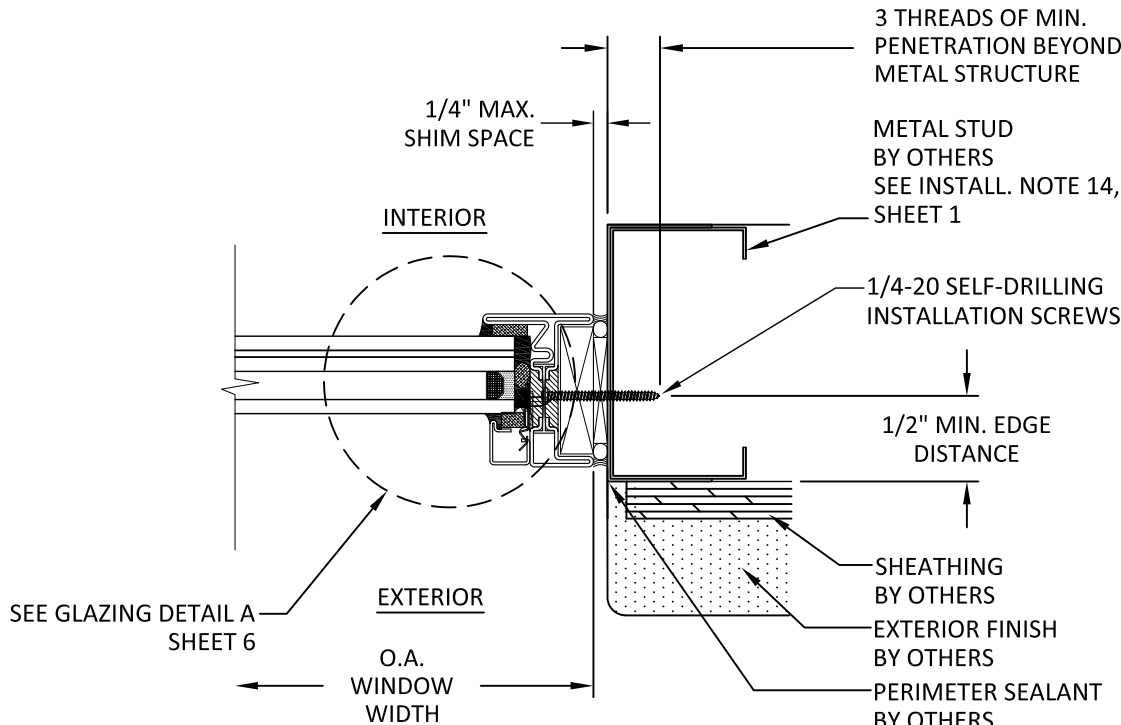
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8 **HORIZONTAL SECTION**
FIXED JAMB - 2X WOOD FRAME
INSIDE GLAZED



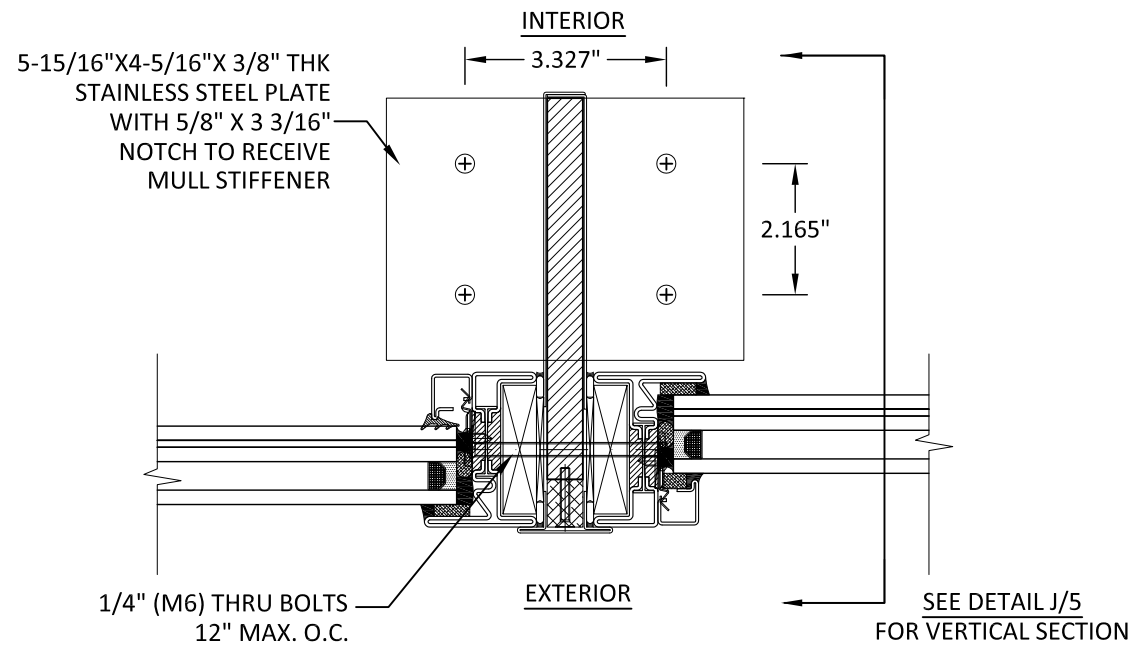
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8 **HORIZONTAL SECTION**
FIXED JAMB - CONCRETE/MASONRY
INSIDE GLAZED



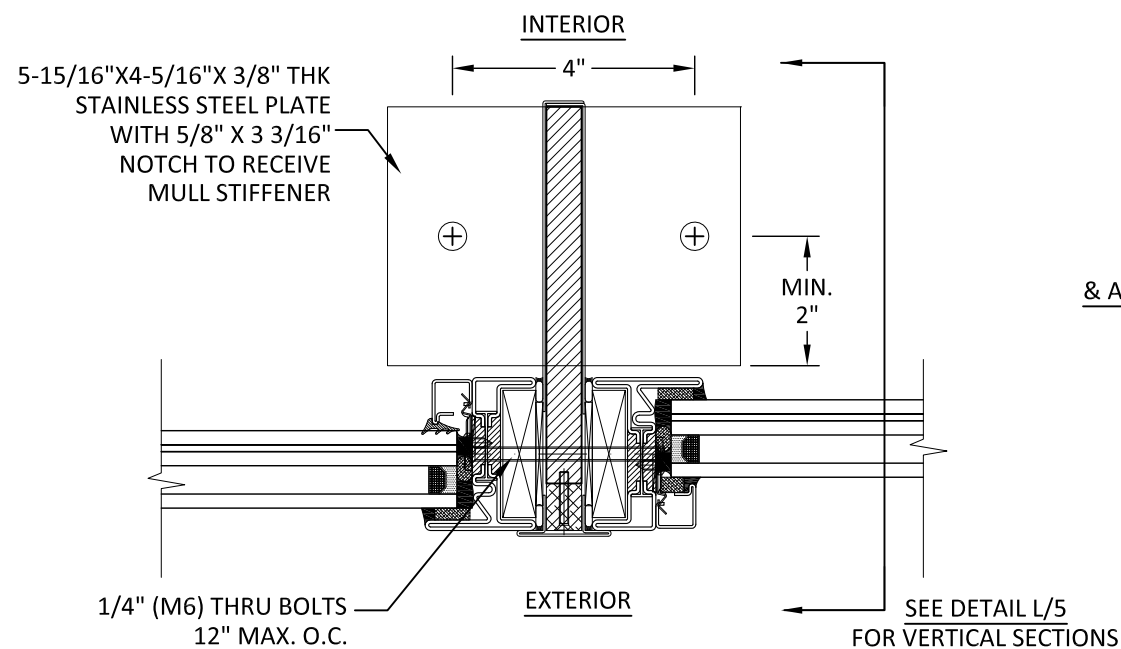
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8 **HORIZONTAL SECTION**
FIXED JAMB - 1X WOOD BUCK / CONCRETE/MASONRY
OUTSIDE GLAZED



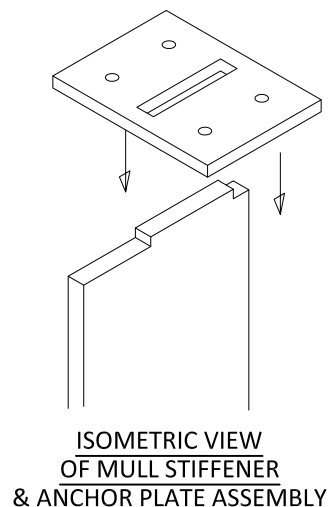
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FIXED JAMB - METAL STUD FRAME
OUTSIDE GLAZED



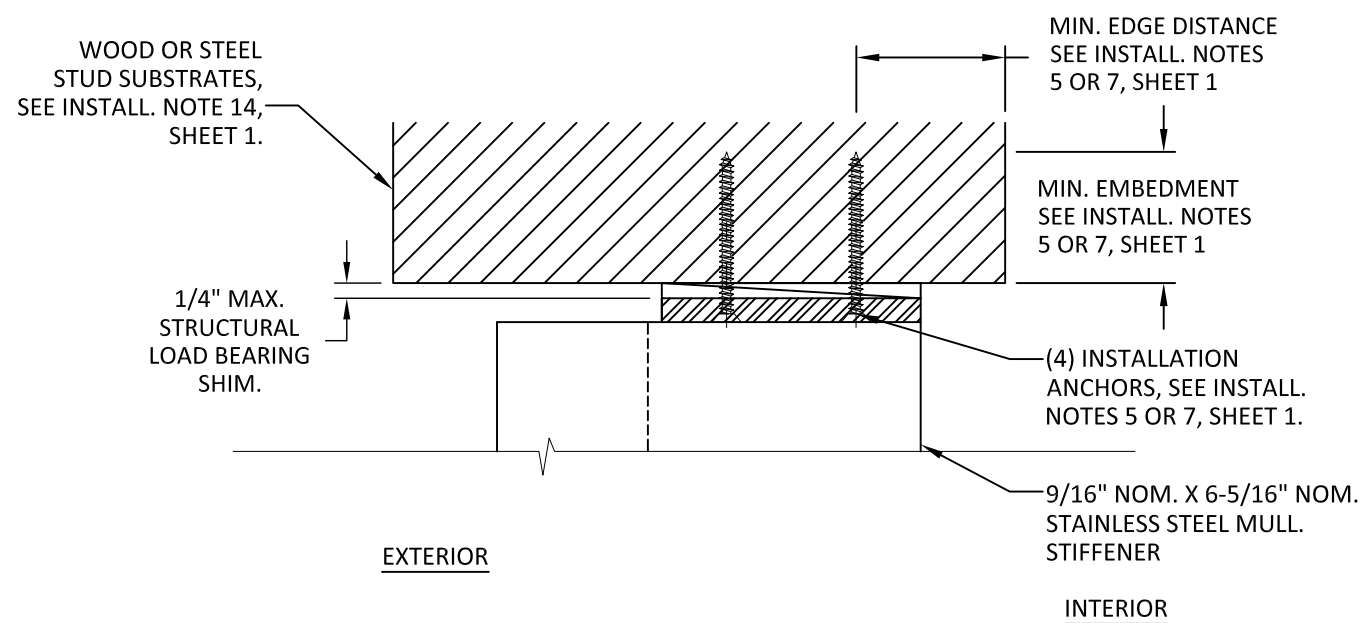
I
9 **HORIZONTAL SECTION**
MULLION DETAIL
WOOD/STEEL STUD SUBSTRATES



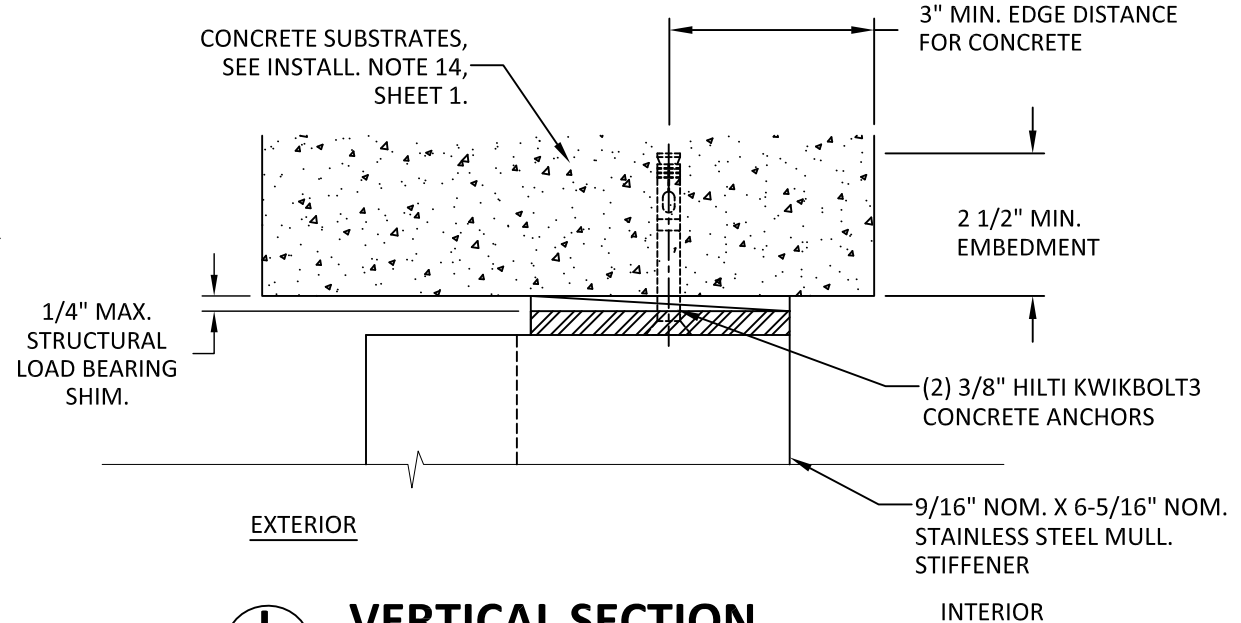
K
9 **HORIZONTAL SECTION**
MULLION DETAIL
CONCRETE SUBSTRATES



ISOMETRIC VIEW
OF MULL STIFFENER
& ANCHOR PLATE ASSEMBLY



J
9 **VERTICAL SECTION**
MULLION DETAIL
WOOD/STEEL STUD SUBSTRATES



L
9 **VERTICAL SECTION**
MULLION DETAIL
CONCRETE SUBSTRATES

NOTE: ALTERNATE CONNECTIONS MAY BE DESIGNED BY A LICENSED ENGINEER ON A SITE BY SITE BASIS. FOR EXAMPLE, CONNECTIONS TO ACCOMMODATE BUILDING MOVEMENTS AND/OR LINTEL DEFLECTIONS.

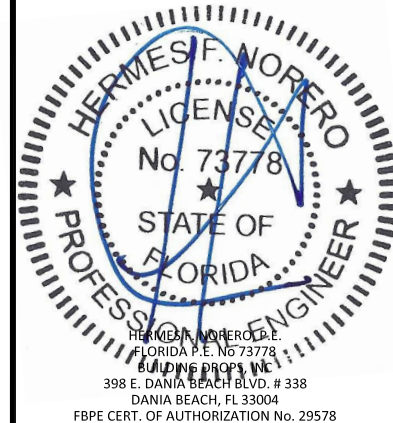
BROMBAL
LUXURY METAL WINDOWS AND DOORS

BROMBAL SRL
VIA VALLA, 24
31030 CASELLE DI ALTIVOLE

TITLE: FARO 65 SERIES FIXED WINDOW (HVHZ) (IMPACT)	MULLION CONNECTION DETAILS	
	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
FBC UPDATE	SM	10.19.22

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FL #:	FL18656
DATE:	10.09.15
DWG. BY:	LMS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	BRB006
SHEET:	9

TITLE: FARO 65 SERIES FIXED WINDOW
(HVHZ) (IMPACT)

ALTERNATE ANCHORAGE
DETAILS

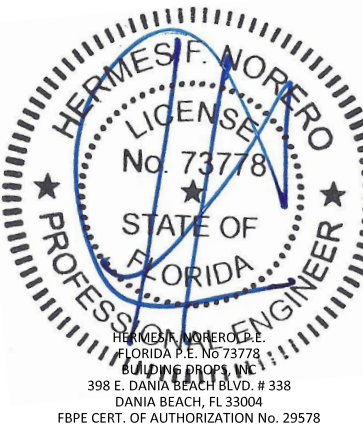
PREPARED BY:
BUILDING DROPS, INC.

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FL #: **FL18656**

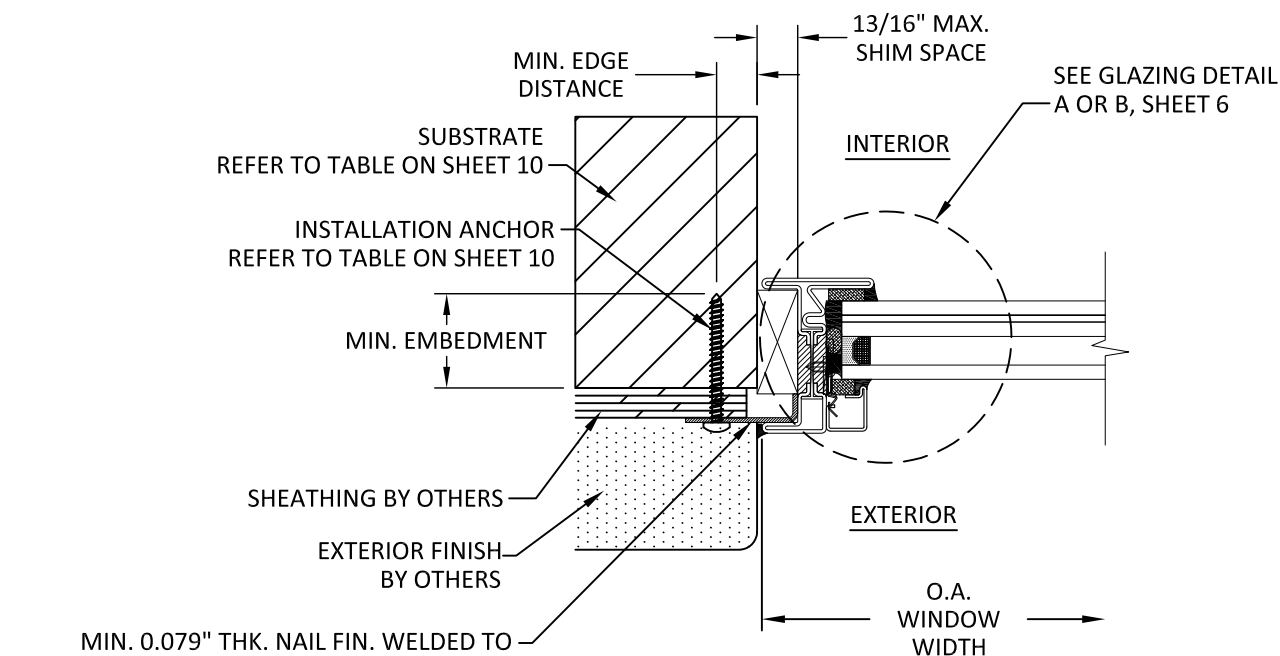
DATE: **10.09.15**

DWG. BY: **LMS** CHK. BY: **HFN**

SCALE: **NTS**

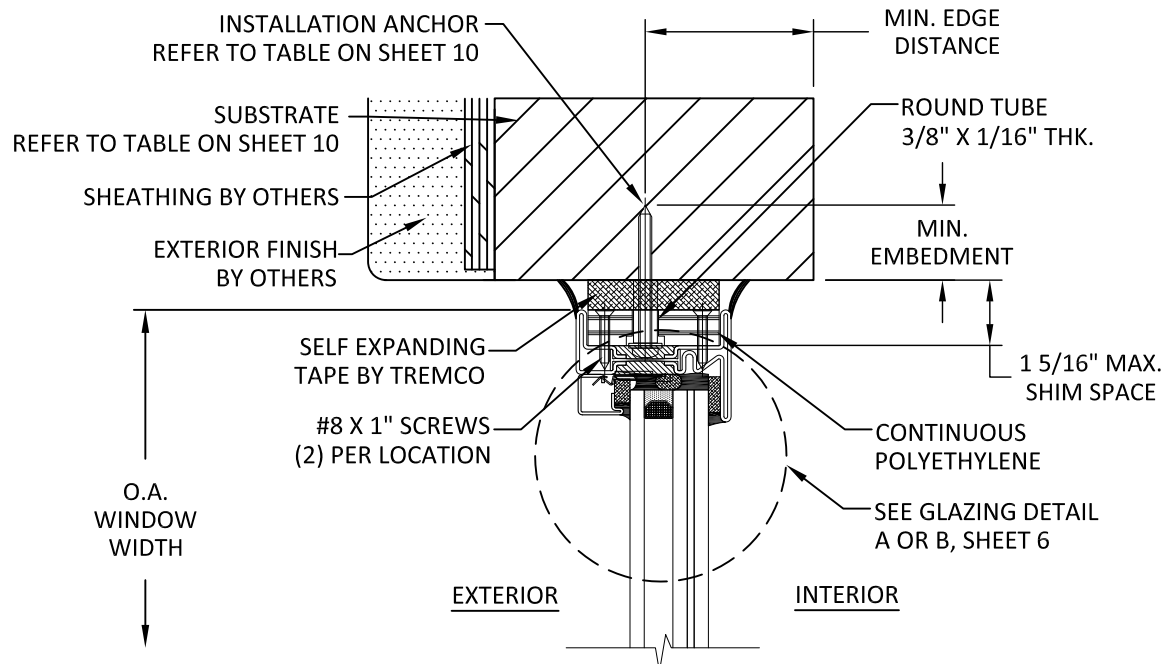
DWG. #: **BRB006**

SHEET:
10

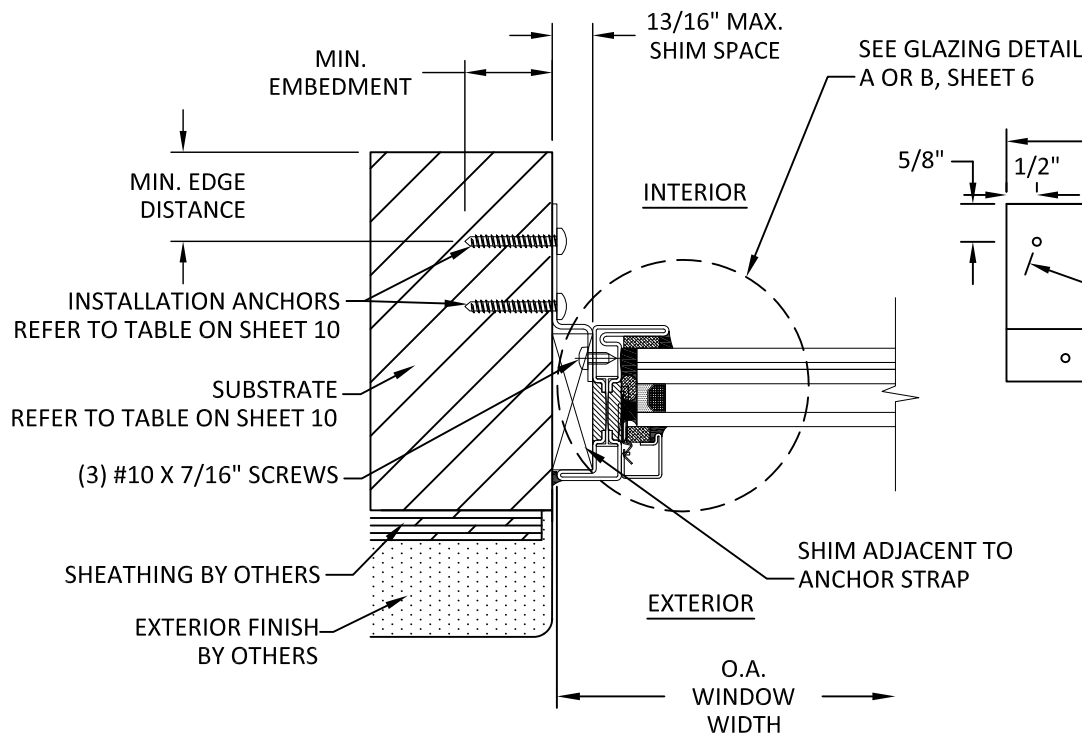


M10 HORIZONTAL SECTION
NAIL FIN INSTALLATION
TYP. INSTALLATION - HEAD/JAMB/SILL

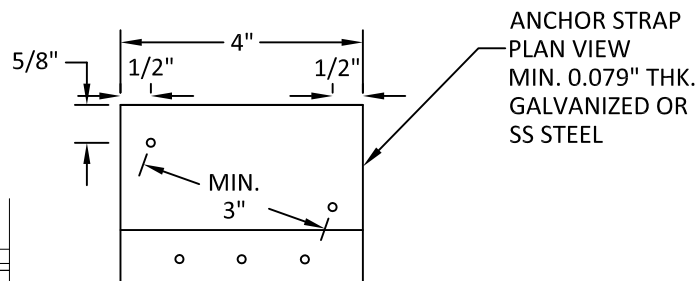
MIN. 0.079" THK. NAIL FIN. WELDED TO
FRAME FOR STAINLESS & STEEL
TO STEEL. FOR NAIL FIN SCREWED TO FRAME
APPLICATIONS, NAIL FIN SHALL BE INSTALLED
FOR SEALING & WEATHER PROOFING
PURPOSES ONLY AND INSTALLATION SHALL
USE ADDITIONAL ANCHOR STRAP OR THRU
FRAME INSTALLATION METHODS.



N10 VERTICAL SECTION
DEFLECTION ANCHOR
TYP. INSTALLATION - HEAD ONLY



O10 HORIZONTAL SECTION
THRU STRAP INSTALLATION
TYP. INSTALLATION - HEAD/JAMB/SILL



ALTERNATE ANCHOR OPTIONS

INSTALLATION METHOD								
METHOD	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MAX. DIST. FROM CORNERS	MAX. O.C. SPACING		
						H	J	S
NAIL FIN DETAIL M/10	MIN. S.G. = 0.55 WOOD	#12 WOOD SCREW	1.5"	0.75"	4"	8"	8"	8"
	18 GAUGE STEEL, MIN fy = 33 ksi	#12 PAN HEAD SCREW	3 THREADS PENETRATION	0.75"	4"	8"	8"	8"
THRU STRAP DETAIL O/10	MIN. S.G. = 0.55 WOOD	#12 WOOD SCREW	1.5"	0.75"	Refer to Elevations on Sheets 2-5 for Anchor Layout			
	18 GAUGE STEEL, MIN fy = 33 ksi	#12 PAN HEAD SCREW	3 THREADS PENETRATION	0.75"				
THRU FRAME (DEFLECTION ANCHOR) DETAIL N/10	CONCRETE/MASONRY, MIN fc = 3000 psi	1/4" ITW TAPCON	1 1/4"	2 1/2"	Refer to Elevations on Sheets 2-5 for Anchor Layout			
	MIN. S.G. = 0.55 WOOD	#12 WOOD SCREW	1.5"	0.75"				
	18 GAUGE STEEL, MIN fy = 33 ksi	#12 PAN HEAD SCREW	3 THREADS PENETRATION	0.75"				
	CONCRETE/MASONRY, MIN fc = 3000 psi	1/4" ITW TAPCON	1 1/4"	2 1/2"				