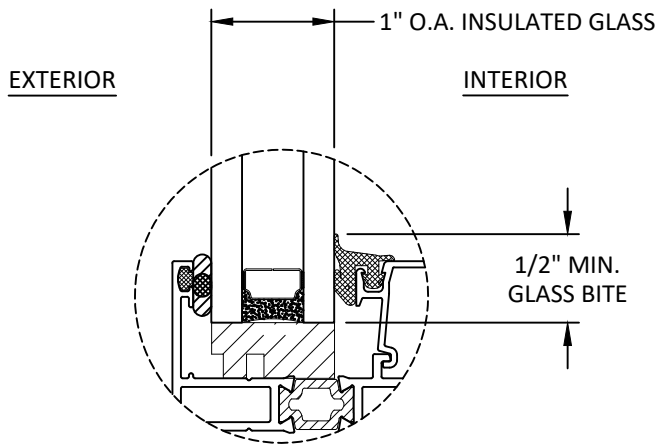


TUBELITE, INC.

TUBELITE® 1350 SERIES ALUMINUM AWNING & HOPPER WINDOW (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 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.
- 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 REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAIL.
- CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.



GLAZING DETAIL 1

GLAZING NOTES:

- GLASS TYPE SHALL COMPLY WITH ASTM E1300 REQUIREMENTS. PER THE FBC TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.

TABLE OF CONTENTS

SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND GLAZING DETAIL
2	ELEVATION, ANCHOR LAYOUT, & DESIGN PRESSURE TABLE
3	ELEVATION, ANCHOR LAYOUT, & DESIGN PRESSURE TABLE
4	VERTICAL SECTIONS
5	VERTICAL SECTIONS
6	VERTICAL SECTIONS
7	VERTICAL SECTIONS
8	HORIZONTAL SECTIONS
9	HORIZONTAL SECTIONS
10	ANCHOR DETAILS AND INSTALLATION NOTES

DESIGN PRESSURE RATING (PSF)

CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	LOCKING HARDWARE	MISSILE IMPACT RATING
AWNING "X"	48"	38"	+80/-80 PSF	CAM LOCKS	NON-IMPACT RATED
AWNING "X"	48"	38"	+70/-70 PSF	MULTI-POINT LOCK	NON-IMPACT RATED
HOPPER "X"	48"	36"	+70/-70 PSF	CAM LOCKS	NON-IMPACT RATED
HOPPER "X"	48"	36"	+70/-70 PSF	MULTI-POINT LOCK	NON-IMPACT RATED

TUBELITE®

LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE DRIVE N.W.
WALKER, MICHIGAN 49544

PH: 800 866 2227 FX: 616 301 0008

TITLE: TUBELITE® 1350 SERIES
ALUMINUM AWNING & HOPPER
WINDOW
(NON-HVHZ)(NON-IMPACT)
GENERAL NOTES AND
GLAZING DETAIL

PREPARED BY: BUILDING DROPS, INC.

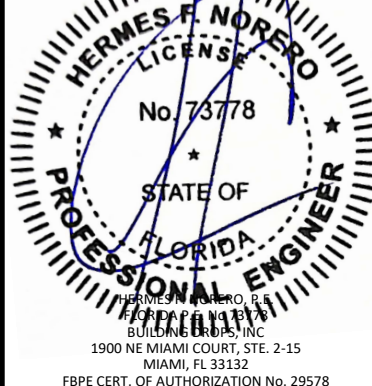
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.10.18 17:32:11 -0400



FL #: **FL43775**

DATE: **10.18.2023**

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SCALE: **NTS**

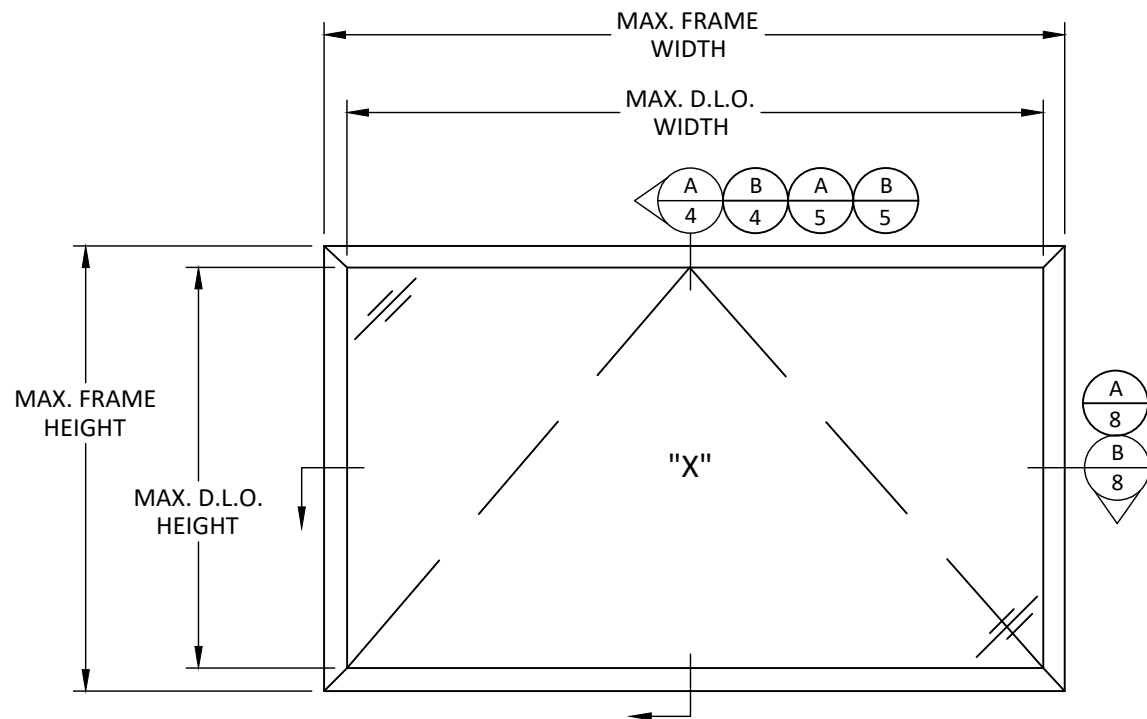
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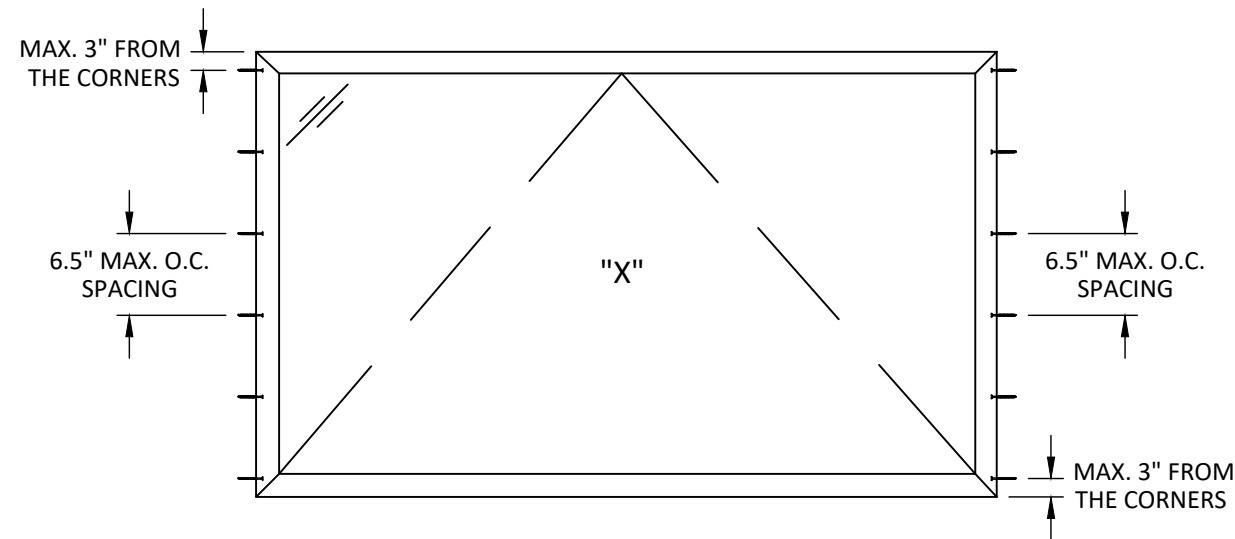
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D.L.O. HEIGHT = FRAME HEIGHT - 6.6"
D.L.O. WIDTH = FRAME WIDTH - 6.6"

ELEVATION
AWNING



ANCHOR LAYOUT
AWNING
THROUGH-FRAME

NOTE: NO ANCHORS REQUIRED THROUGH
HEAD OR SILL.

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		CAM LOCKS	MULTI-POINT LOCK
FRAME HEIGHT (in.)	FRAME WIDTH (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
14.0	30.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
14.0	36.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0	42.0	80.0	70.0
14.0		80.0	70.0
20.0		80.0	70.0
26.0	48.0	80.0	70.0
32.0		80.0	70.0
38.0		80.0	70.0
14.0	54.0	80.0	70.0
20.0		80.0	70.0
26.0		80.0	70.0
32.0	60.0	80.0	70.0
14.0		80.0	70.0
20.0		80.0	70.0
26.0	66.0	80.0	70.0
14.0		80.0	70.0
20.0		80.0	70.0
26.0	72.0	80.0	70.0
14.0		80.0	70.0
20.0		80.0	70.0
14.0	78.0	80.0	70.0
20.0		80.0	70.0
14.0	84.0	80.0	70.0
20.0		80.0	70.0
14.0	90.0	80.0	70.0
20.0		80.0	70.0
14.0	96.0	80.0	70.0

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TITLE: TUBELITE® 1350 SERIES
ALUMINUM AWNING & HOPPER
WINDOW
(NON-HVHZ)/(NON-IMPACT)
ELEVATION, ANCHOR LAYOUT,
& DESIGN PRESSURE TABLE

PREPARED BY:
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MIAMI, FL 33132
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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL43775

DATE: **10.18.2023**

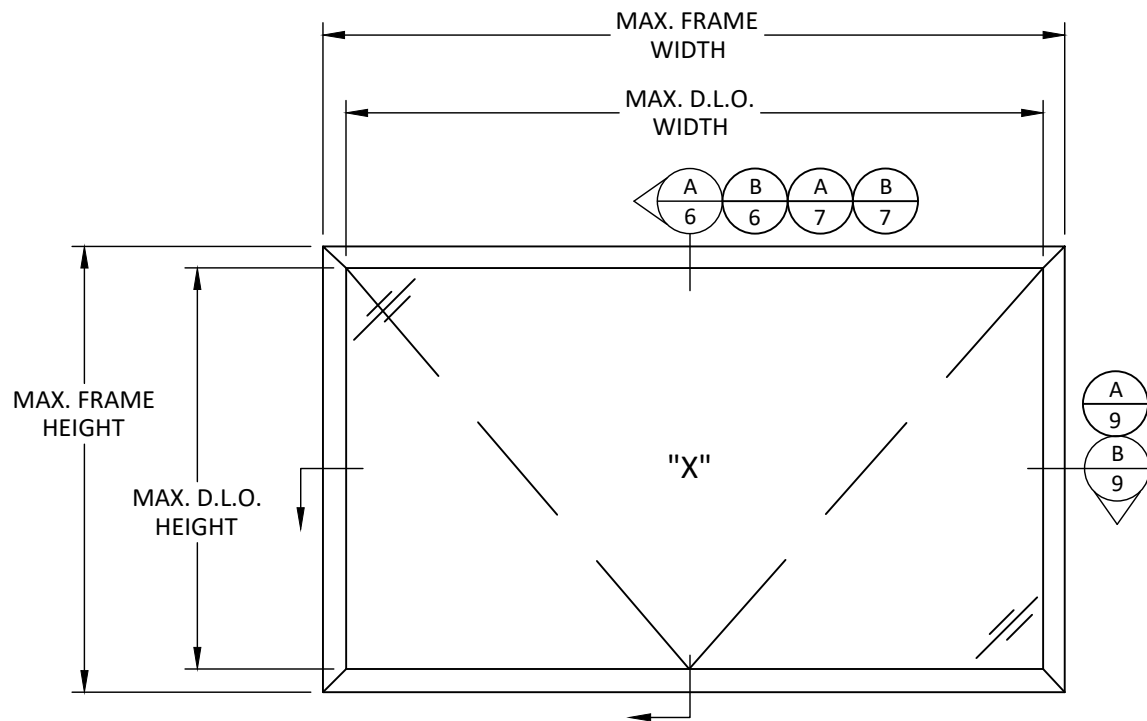
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SCALE: **NTS**

DWG. #: **TBL023**

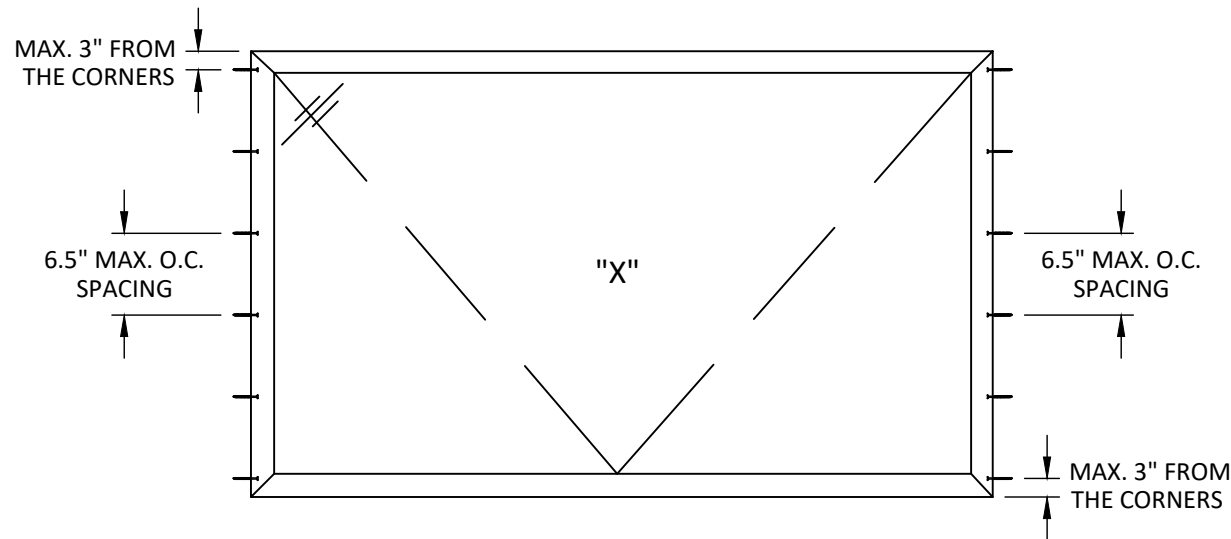
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D.L.O. HEIGHT = FRAME HEIGHT - 6.6"
D.L.O. WIDTH = FRAME WIDTH - 6.6"

ELEVATION
HOPPER



ANCHOR LAYOUT
HOPPER
THROUGH-FRAME

NOTE: NO ANCHORS REQUIRED THROUGH
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DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		CAM LOCKS	MULTI-POINT LOCK
FRAME HEIGHT (in.)	FRAME WIDTH (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
12.0	30.0	70.0	70.0
18.0		70.0	70.0
24.0		70.0	70.0
30.0		70.0	70.0
12.0	36.0	70.0	70.0
18.0		70.0	70.0
24.0		70.0	70.0
30.0		70.0	70.0
36.0		70.0	70.0
12.0	42.0	70.0	70.0
18.0		70.0	70.0
24.0		70.0	70.0
30.0		70.0	70.0
36.0	48.0	70.0	70.0
12.0		70.0	70.0
18.0		70.0	70.0
24.0		70.0	70.0
30.0	54.0	70.0	70.0
36.0		70.0	70.0
12.0		70.0	70.0
18.0		70.0	70.0
24.0	60.0	70.0	70.0
30.0		70.0	70.0
36.0		70.0	70.0
12.0	66.0	70.0	70.0
18.0		70.0	70.0
24.0		70.0	70.0
12.0	72.0	70.0	70.0
18.0		70.0	70.0
24.0		70.0	70.0
12.0	78.0	70.0	70.0
18.0		70.0	70.0
12.0	84.0	70.0	70.0
18.0		70.0	70.0
12.0	90.0	70.0	70.0
18.0		70.0	70.0
12.0	96.0	70.0	70.0
18.0		70.0	70.0

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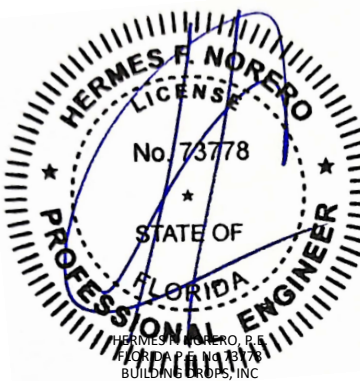
TITLE: TUBELITE® 1350 SERIES
ALUMINUM AWNING & HOPPER
WINDOW
(NON-HVHZ)(NON-IMPACT)
ELEVATION, ANCHOR LAYOUT,
& DESIGN PRESSURE TABLE

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MIAMI, FL 33132
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FAX: (954) 744-4738
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FBPE CERT. OF AUTHORIZATION No. 29578

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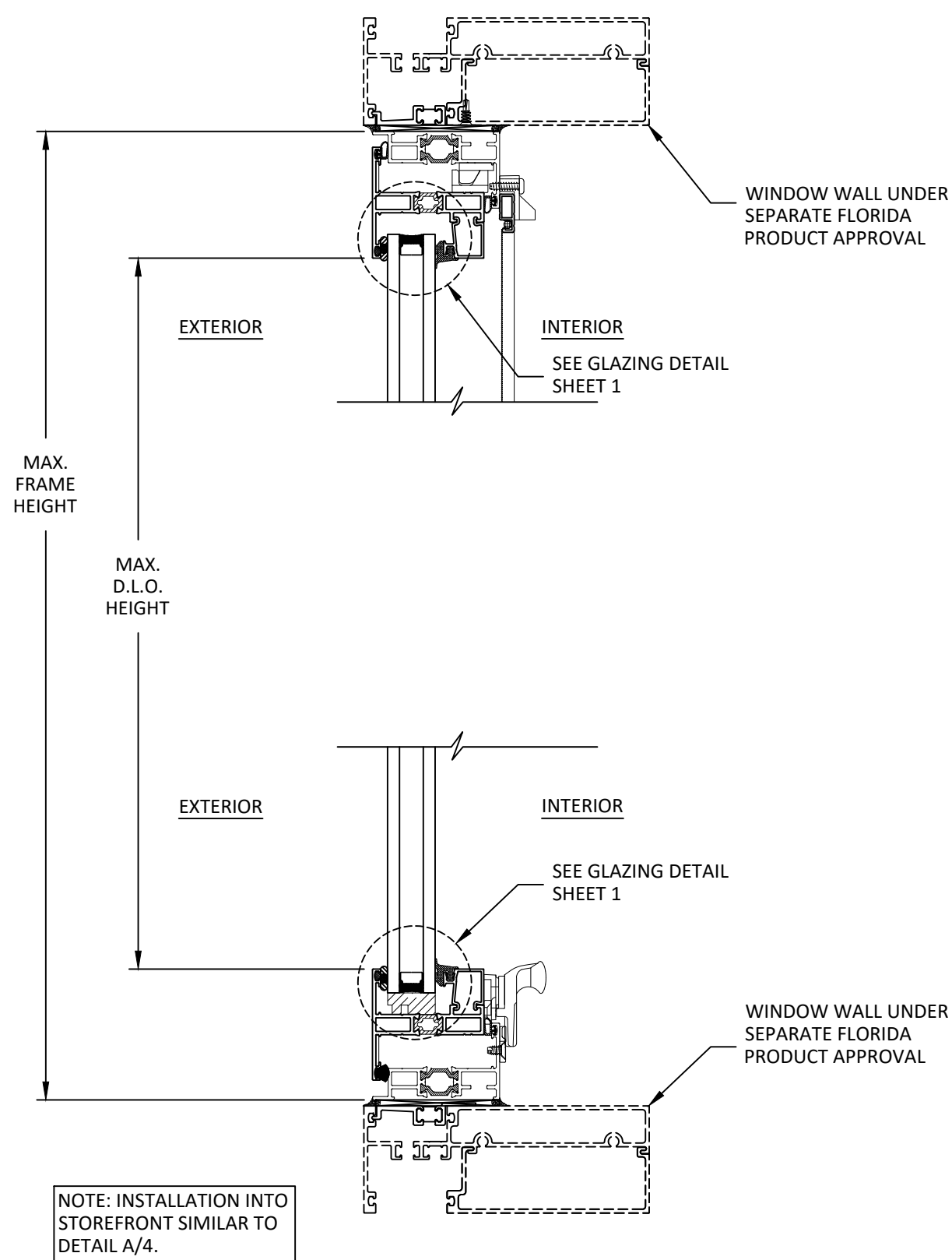
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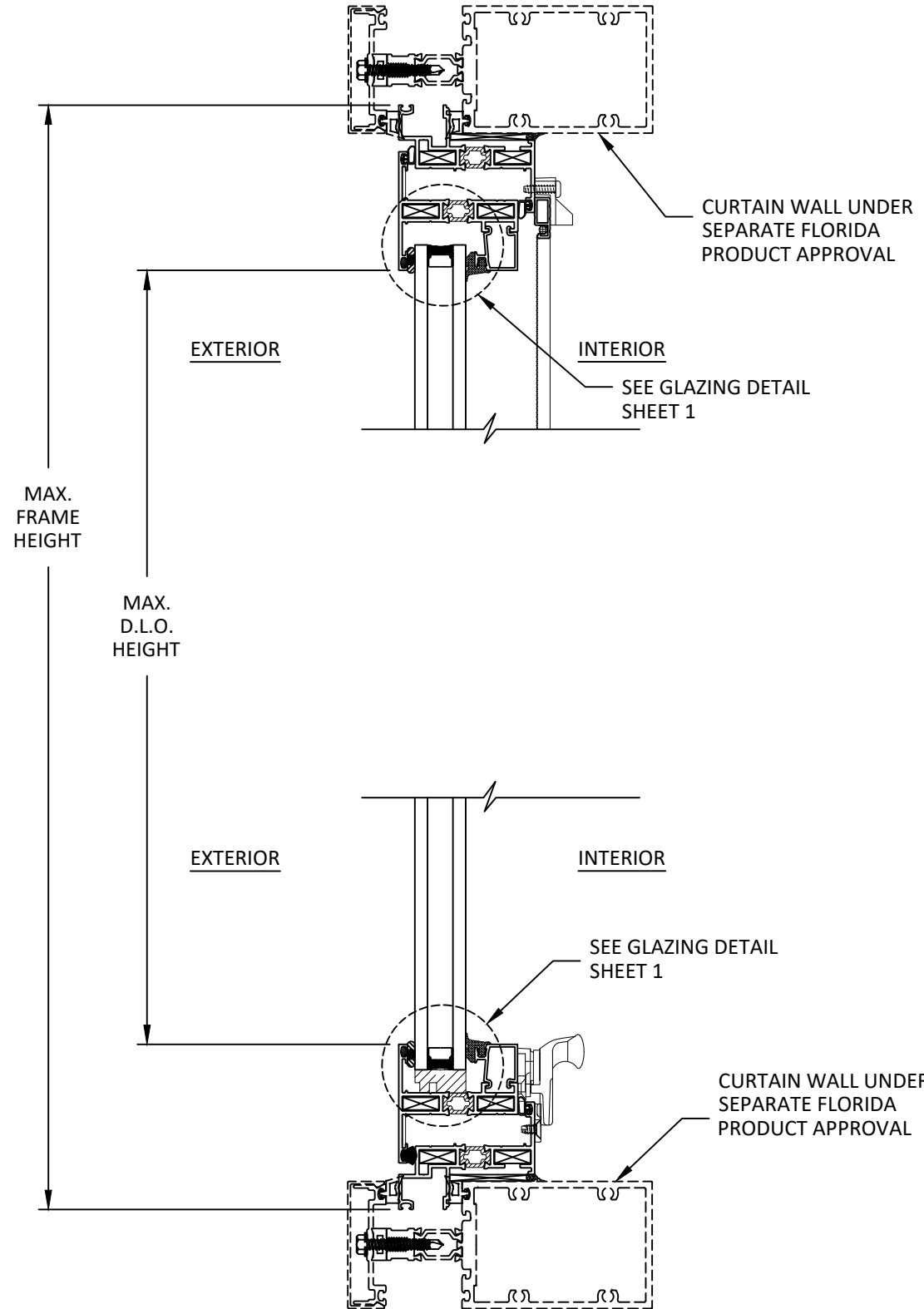
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A
4

HEAD/SILL
AWNING
WITH CAM LOCKS



B
4

HEAD/SILL
AWNING
WITH CAM LOCKS

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WINDOW
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VERTICAL SECTIONS

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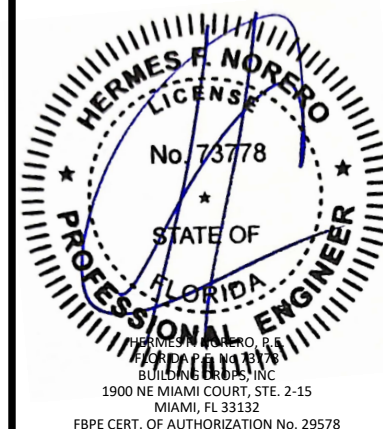
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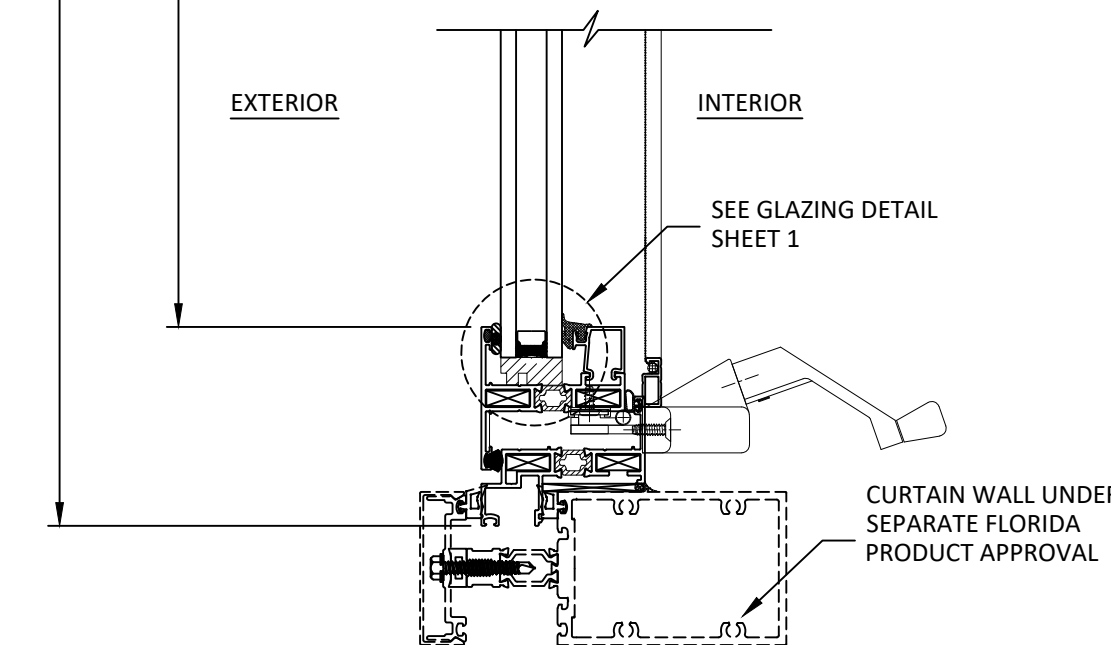
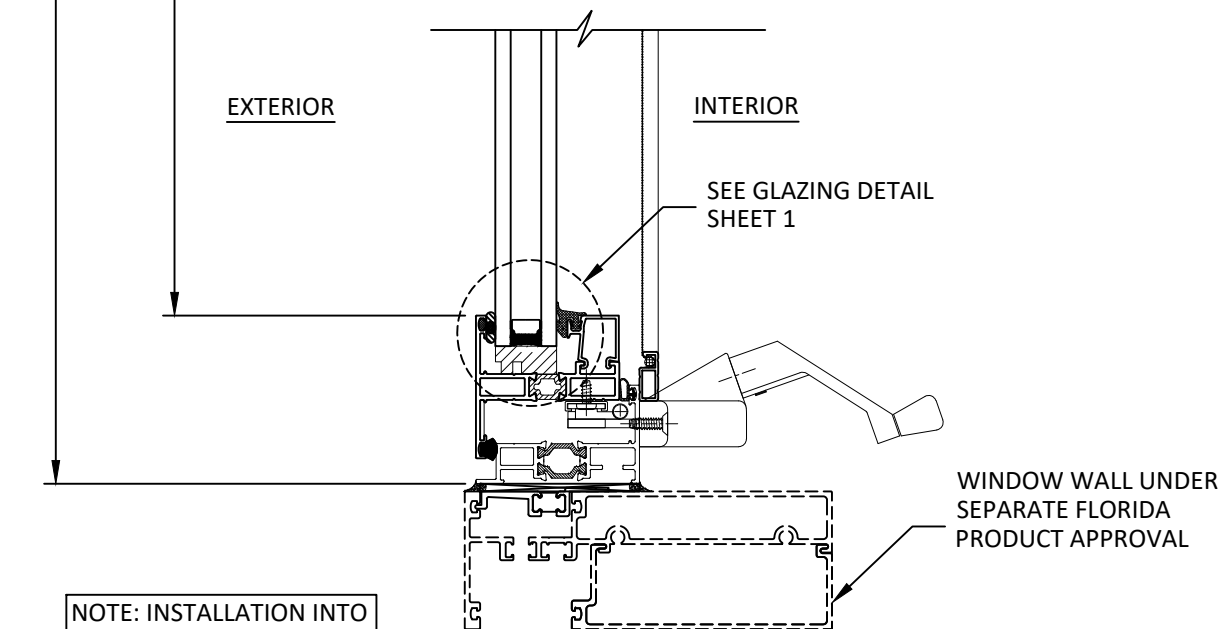
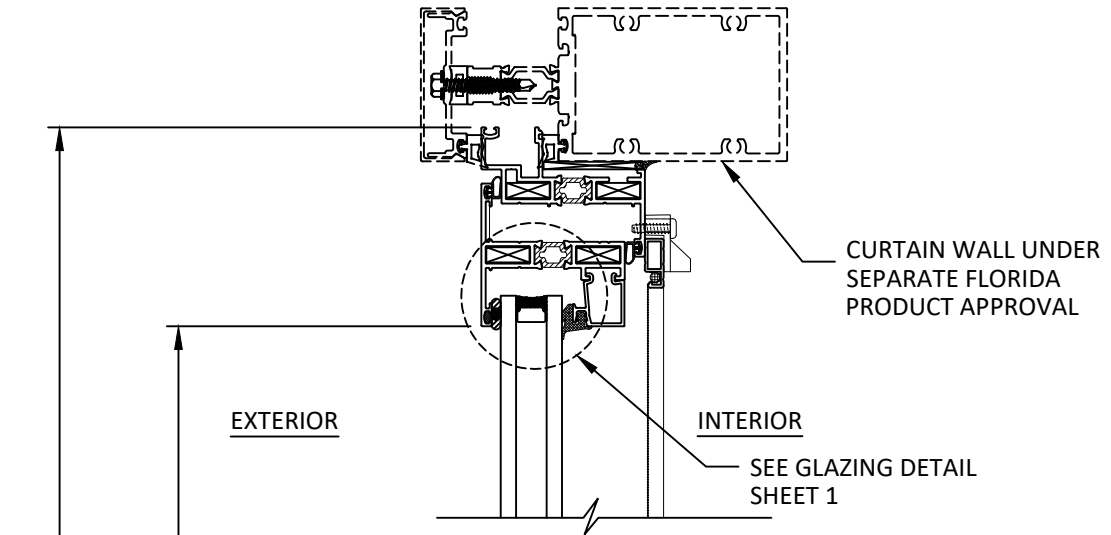
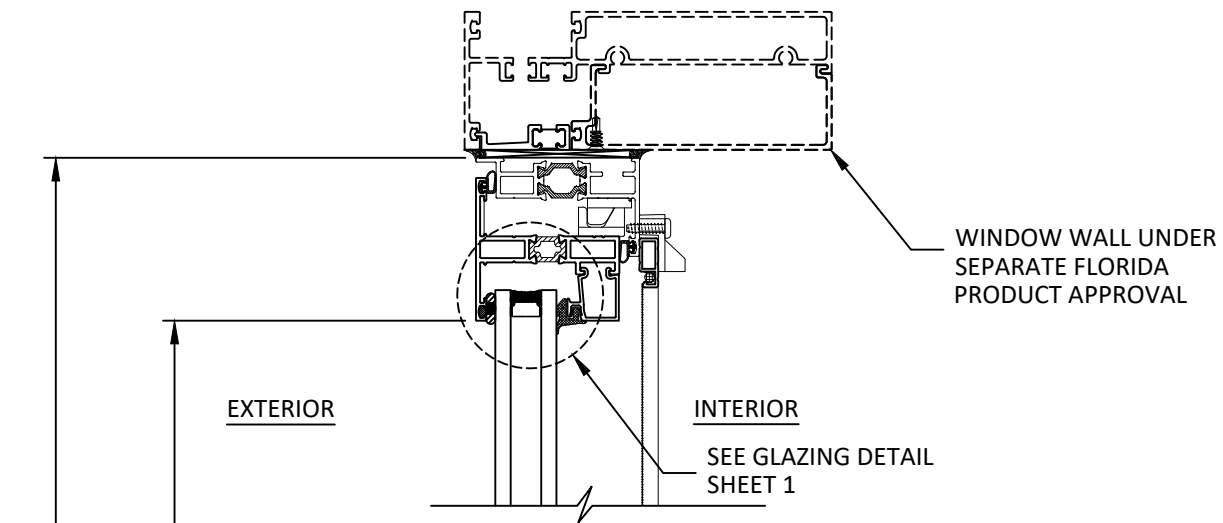
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DWG. #: **TBL023**

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NOTE: INSTALLATION INTO STOREFRONT SIMILAR TO DETAIL A/5.

A
5

HEAD/SILL
AWNING
WITH MULTI-POINT LOCK

B
5

HEAD/SILL
AWNING
WITH MULTI-POINT LOCK

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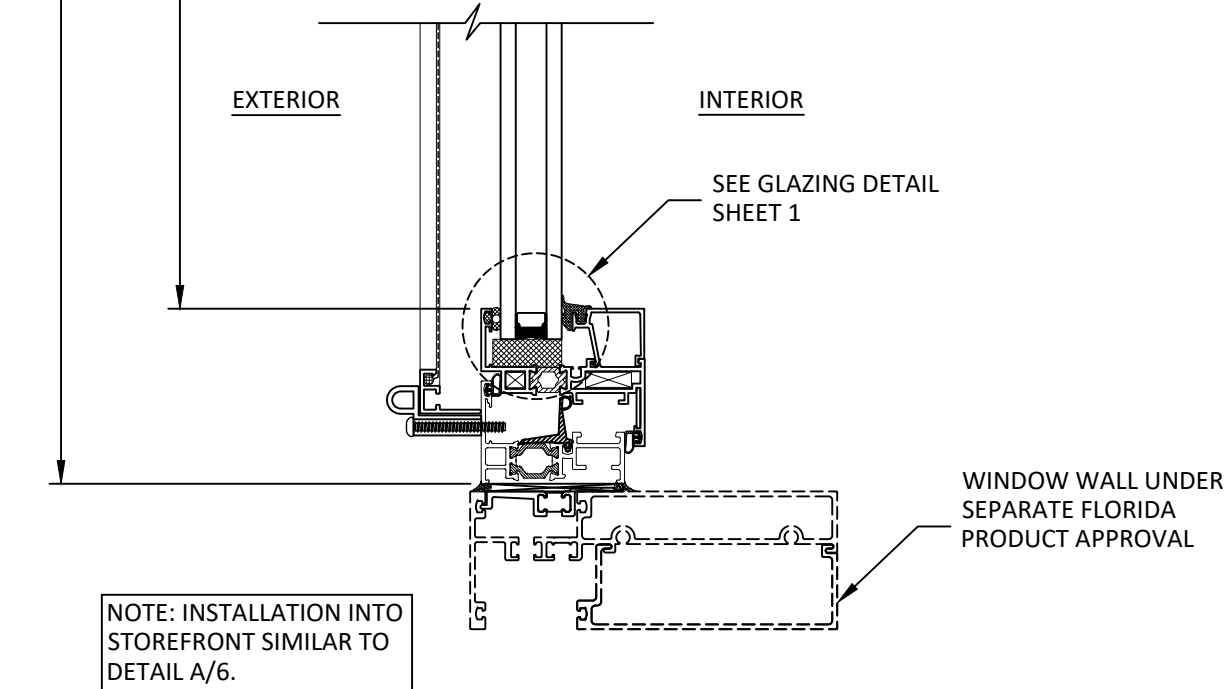
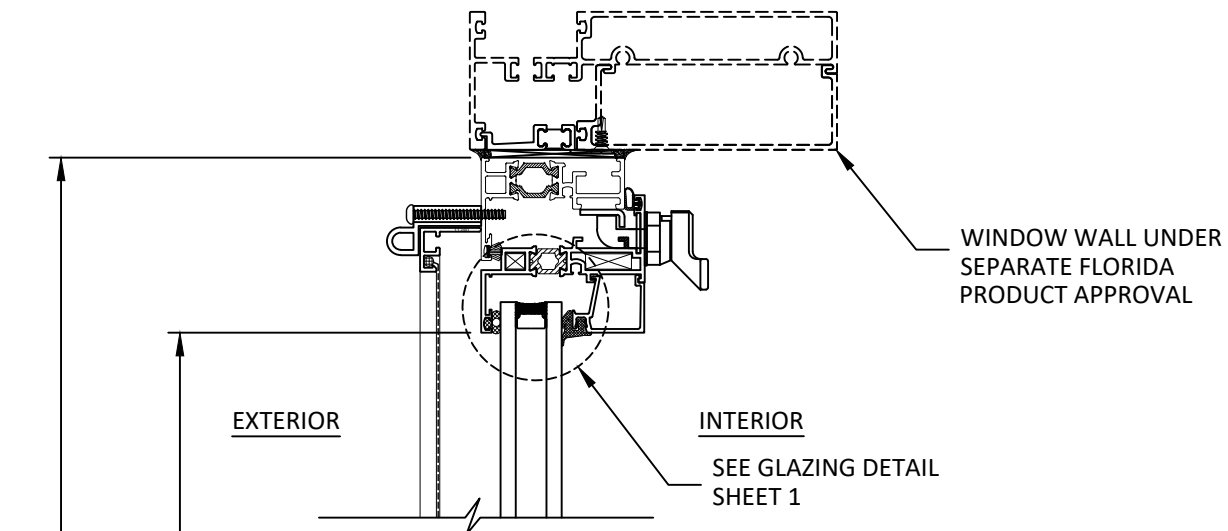
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SCALE:	NTS
DWG. #:	TBL023
SHEET:	5

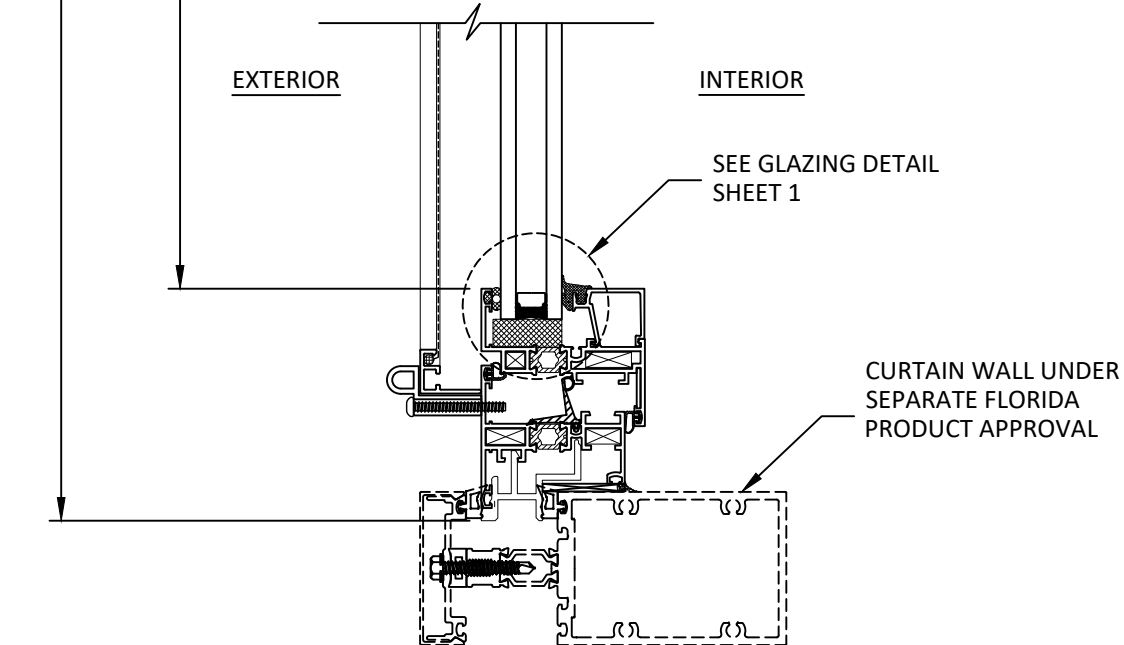
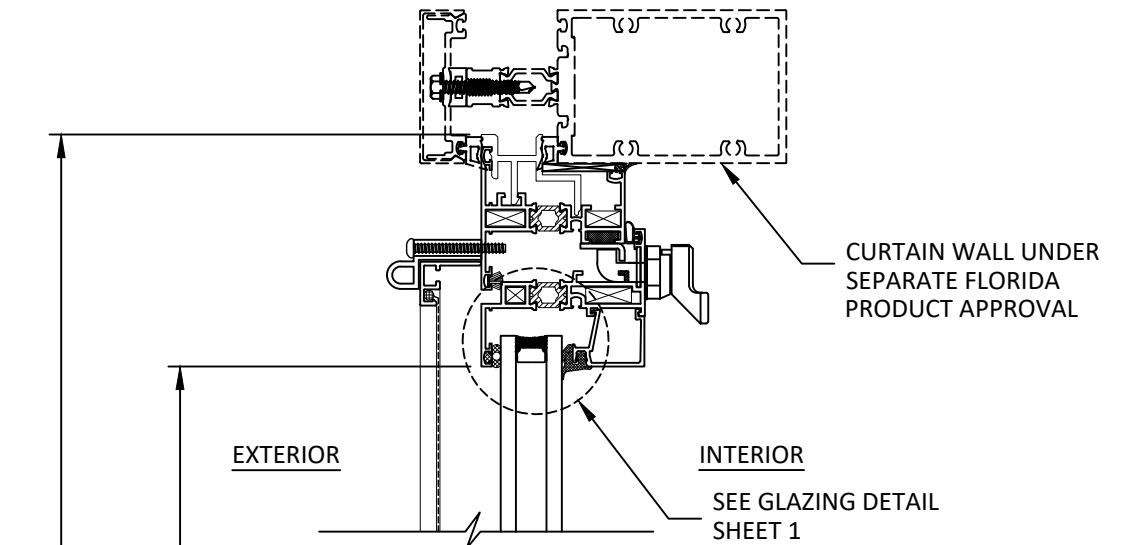
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NOTE: INSTALLATION INTO STOREFRONT SIMILAR TO DETAIL A/6.

A
6

HEAD/SILL
HOPPER
WITH CAM LOCKS



B
6

HEAD/SILL
HOPPER
WITH CAM LOCKS

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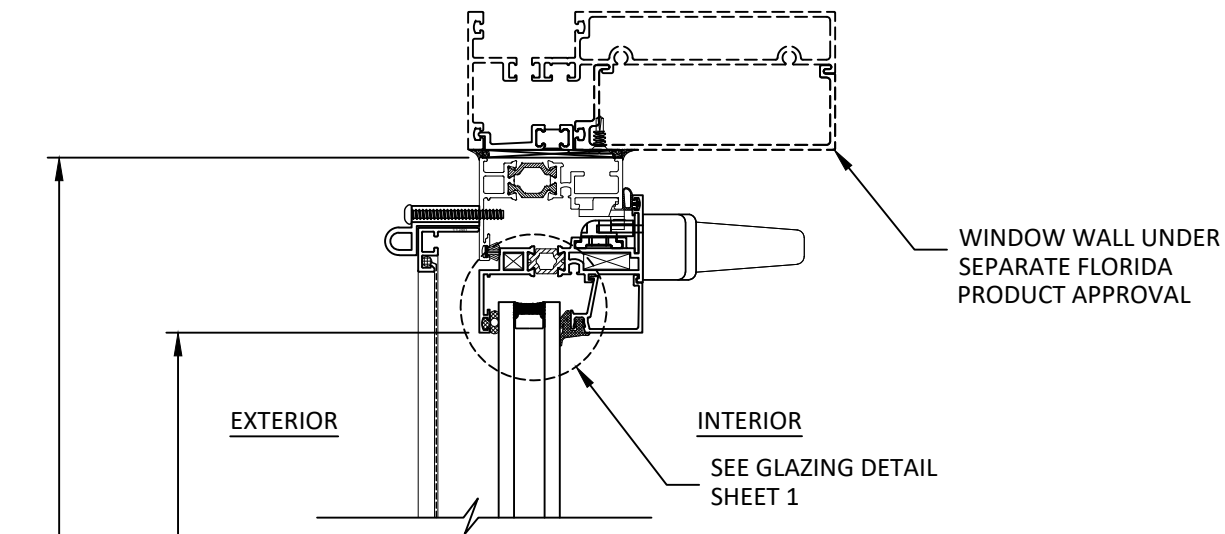


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SH	HFN
SCALE:	NTS
DWG. #:	TBL023
SHEET:	

6

OF 10

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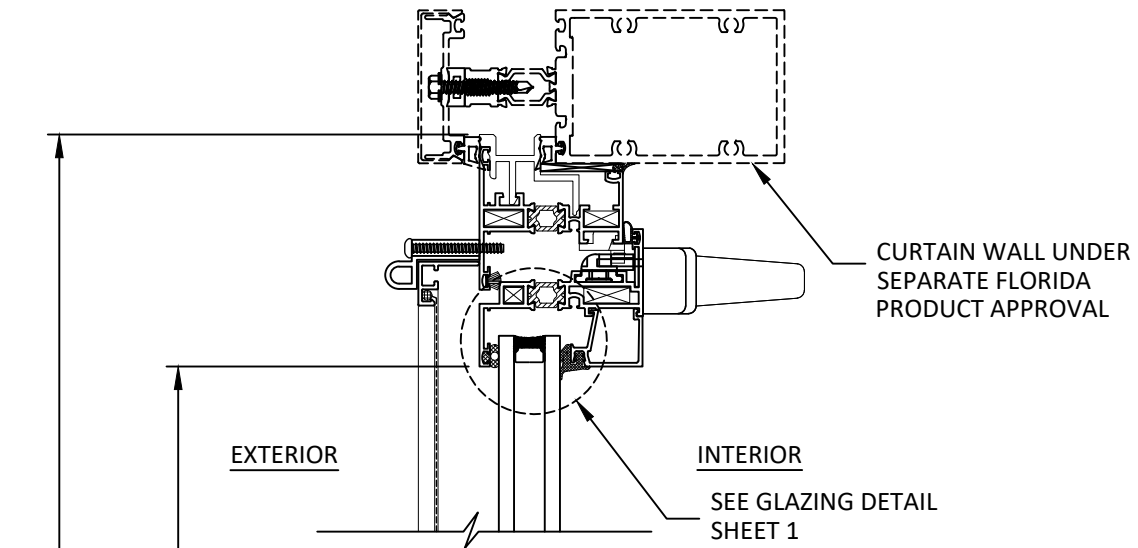


NOTE: INSTALLATION INTO STOREFRONT SIMILAR TO DETAIL A/7.

A
7

HEAD/SILL

HOPPER
WITH MULTI-POINT LOCK



B
7

HEAD/SILL

HOPPER
WITH MULTI-POINT LOCK

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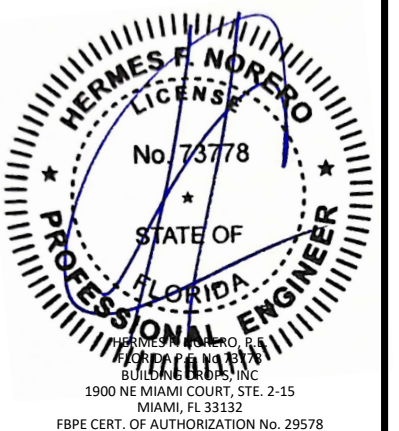
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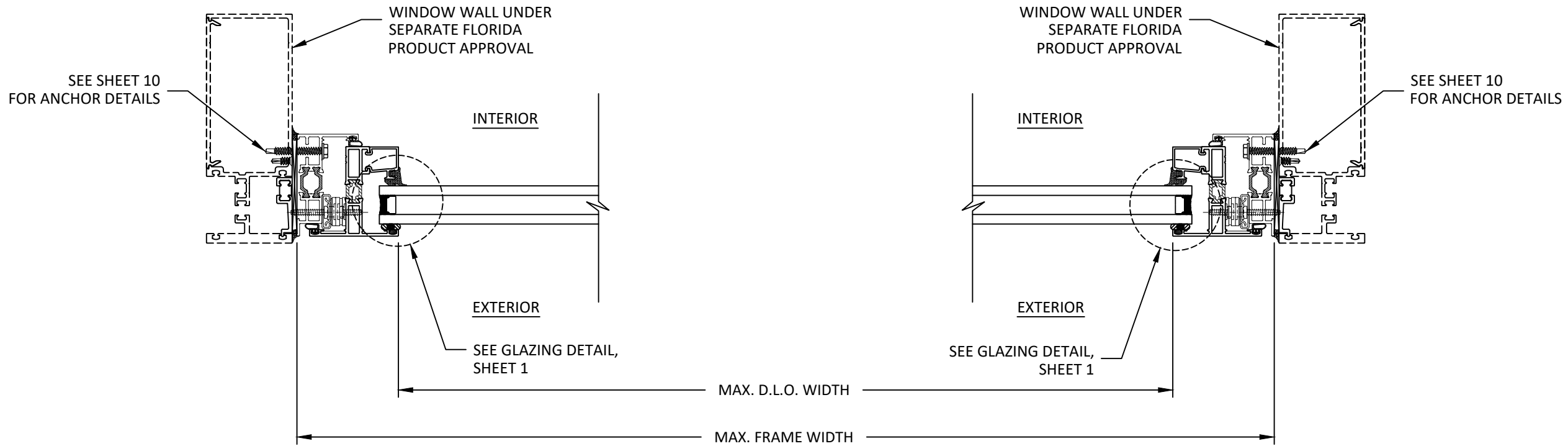
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SH	HFN
SCALE:	NTS
DWG. #:	TBL023
SHEET:	7

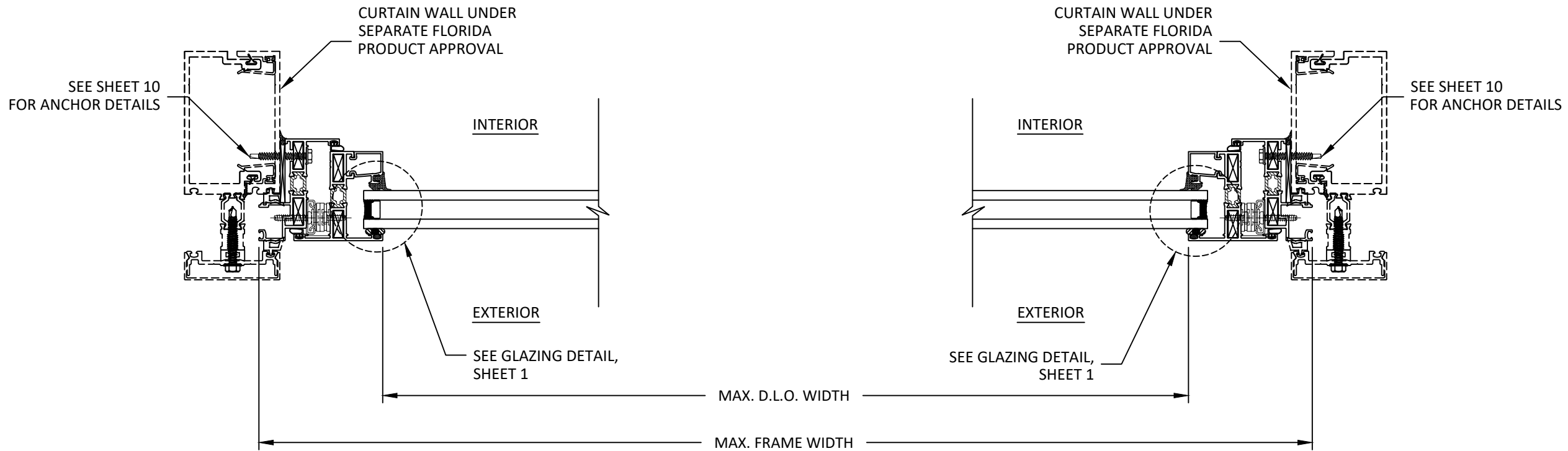
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NOTE: INSTALLATION INTO
STOREFRONT SIMILAR TO
DETAIL A/8.

A
8

JAMBS
AWNING



B
8

JAMBS
AWNING

TUBELITE®

DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE DRIVE N.W.
WALKER, MICHIGAN 49544

PH: 800 866 2227 FX: 616 301 0008

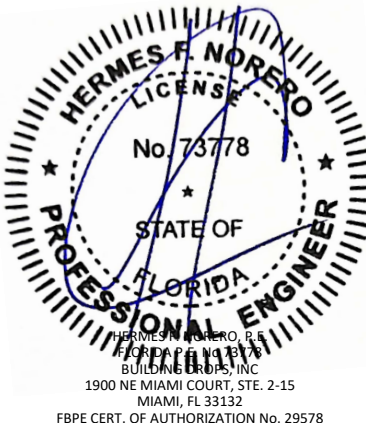
TITLE: TUBELITE® 1350 SERIES
ALUMINUM AWNING & HOPPER
WINDOW
(NON-HVHZ)/(NON-IMPACT)
HORIZONTAL DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
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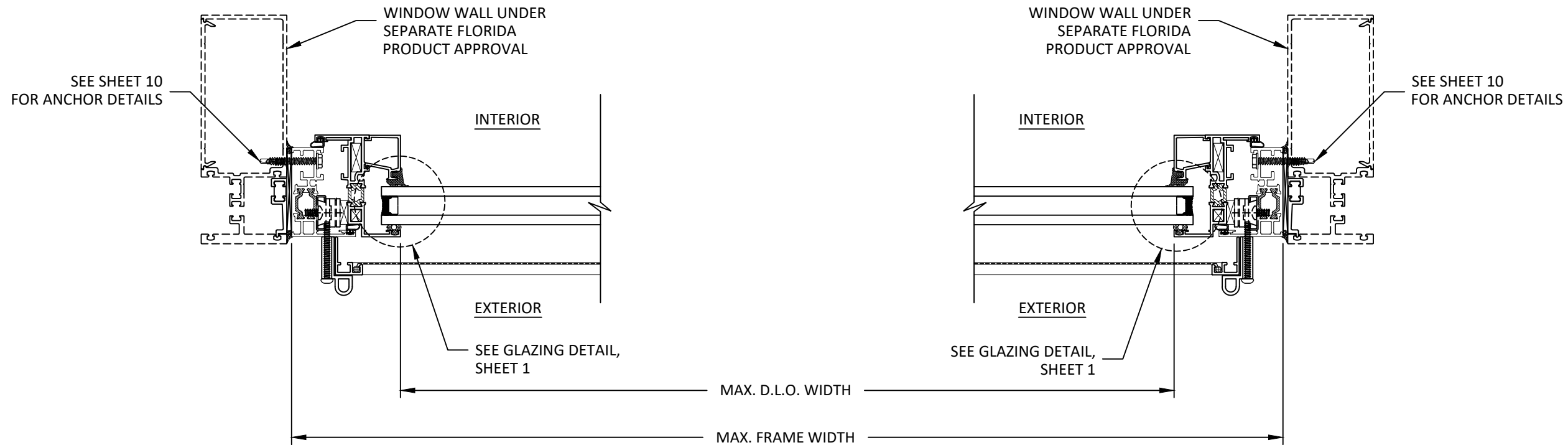
REMARKS	BY	DATE

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 #:	FL43775
DATE:	10.18.2023
DWG. BY:	CHK. BY:
SH	HFN
SCALE:	NTS
DWG. #:	TBL023
SHEET:	8

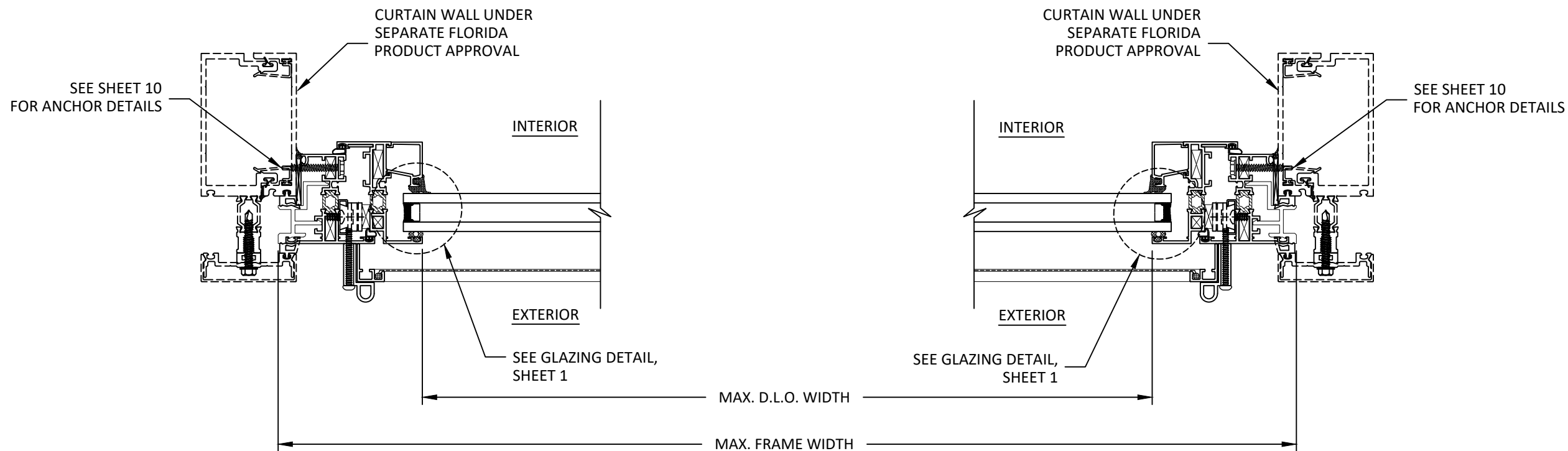
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10/20/2023 11:03 AM



NOTE: INSTALLATION INTO STOREFRONT SIMILAR TO DETAIL A/9.

A
9

JAMBS
HOPPER



B
9

JAMBS
HOPPER

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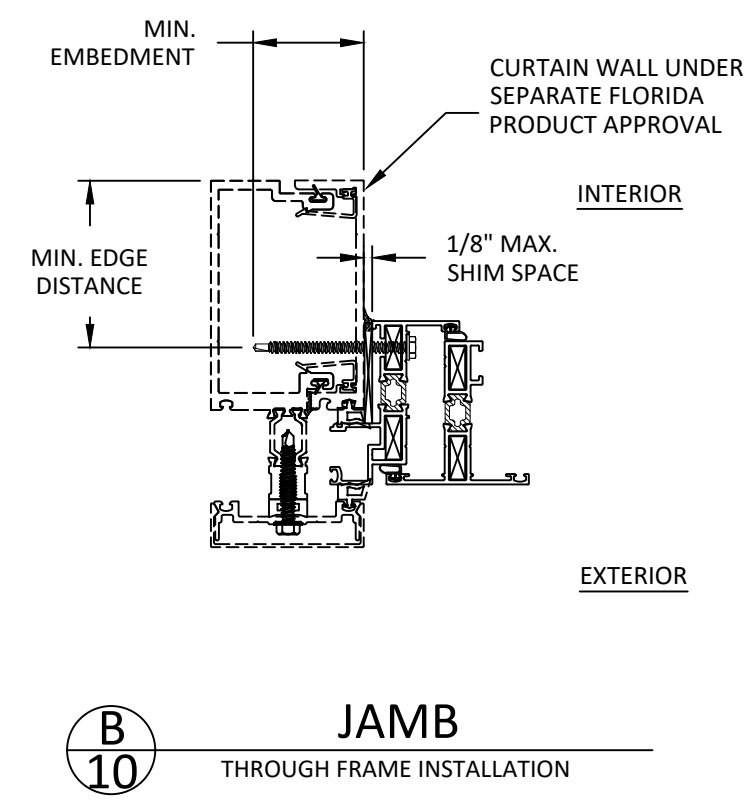
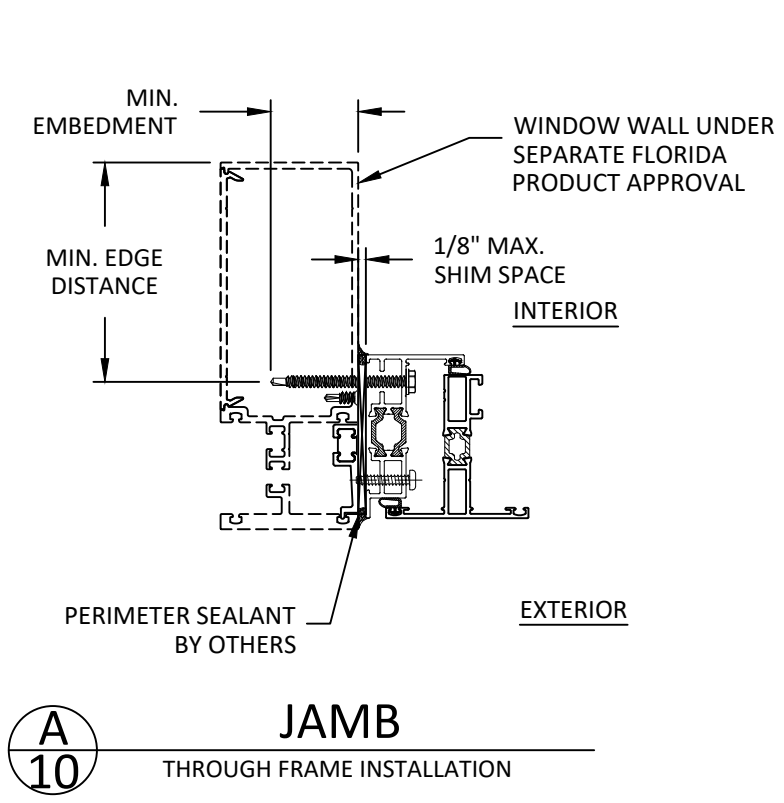
REMARKS	BY	DATE

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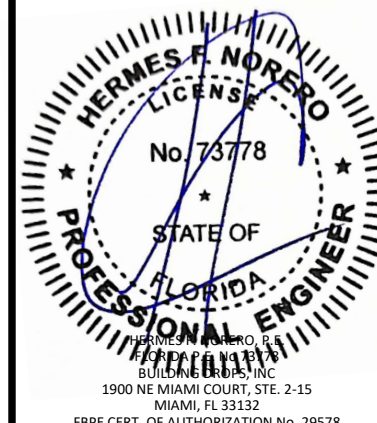


NOTE: NO ANCHORS REQUIRED THROUGH HEAD OR SILL.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEETS 2 & 3.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ± 1.000 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (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 1/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- 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 MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- 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.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	METAL: 18 GAUGE Steel, MIN. $F_y = 33$ KSI ALUMINUM: 1/16" MIN., 6063-T5	#10 SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"



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SHEET:	
10	
OF 10	

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