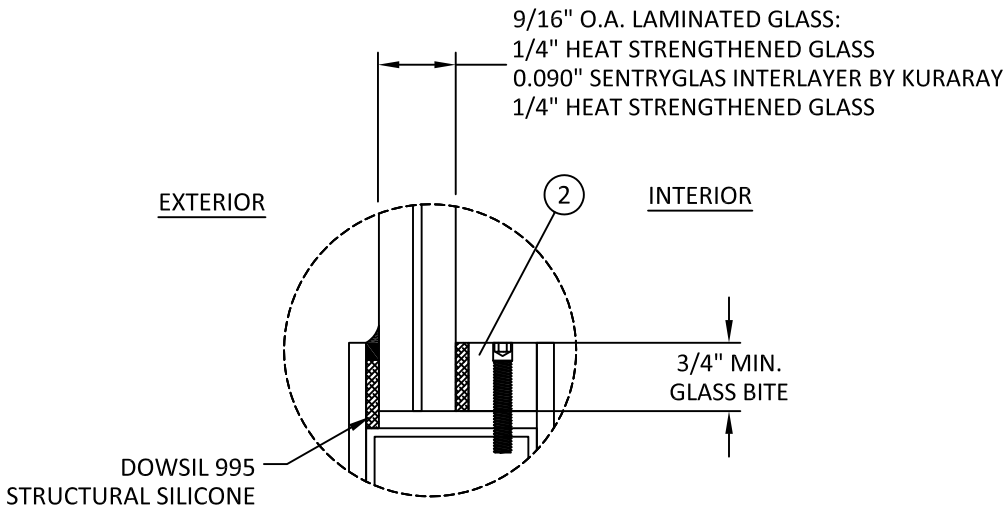


CANTERA DOORS AND MORE INC.

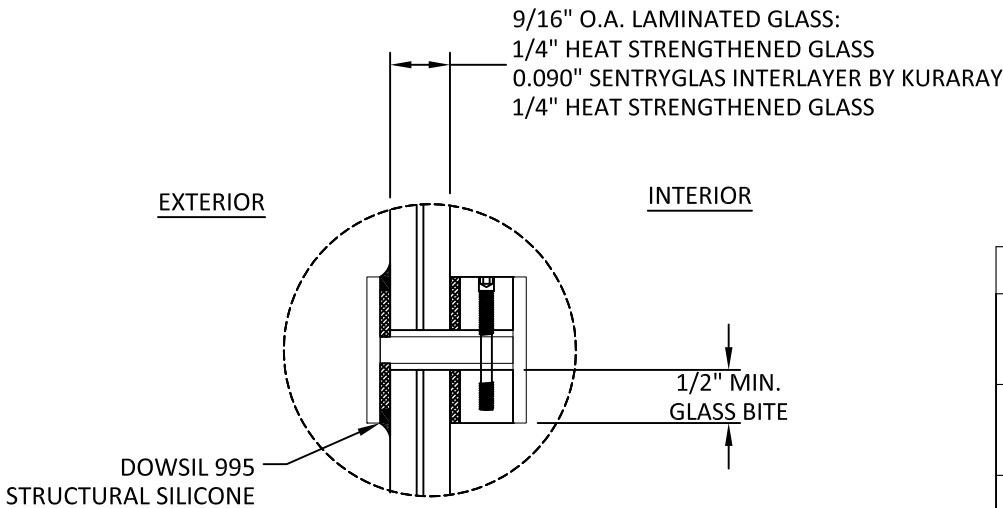
OUTSWING CASEMENT STEEL WINDOW (HVHZ)(IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- 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 NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: STEEL
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAIL.



GLAZING DETAIL 1



GLAZING DETAIL 2

GLAZING NOTES:

- GLASS TYPE COMPLIES 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	ELEVATIONS
3	ANCHOR LAYOUTS
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
6	ANCHOR DETAILS AND INSTALLATION NOTES
7	BILL OF MATERIALS & COMPONENTS

DESIGN PRESSURE RATING (PSF)				
CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
XX	84"	72"	+/-80 PSF*	LARGE & SMALL MISSILE IMPACT
X	42"	72"	+/-80 PSF*	

* NOTE: TRULY DIVIDED LITES ARE LIMITED TO A DESIGN PRESSURE OF +/- 75 PSF.



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TITLE: OUTSWING CASEMENT STEEL WINDOW (HVHZ) (IMPACT) GENERAL NOTES & GLAZING DETAIL

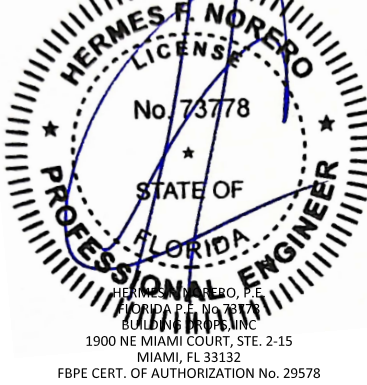
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.04.07 13:04:07 -0400



FL #: **FL47428**

DATE: **05.05.25**

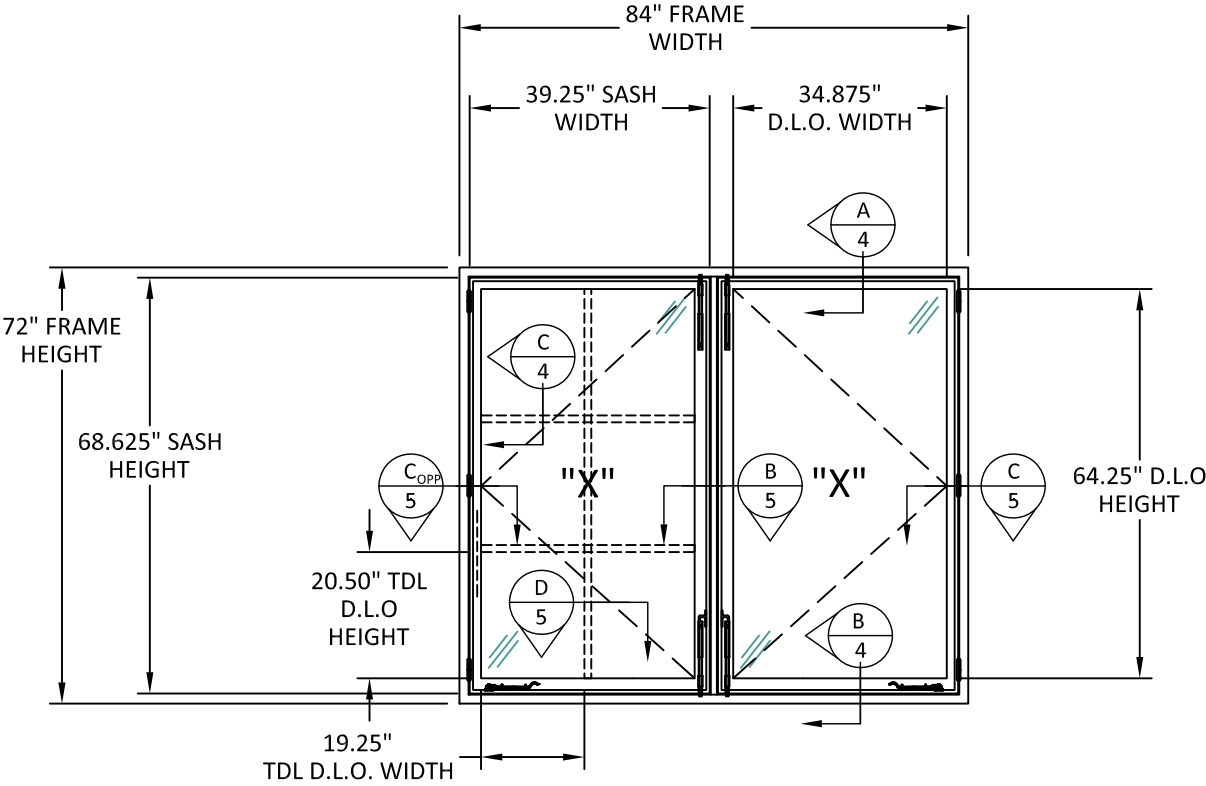
DWG. BY: **HJ** CHK. BY: **HFN**

SCALE: **NTS**

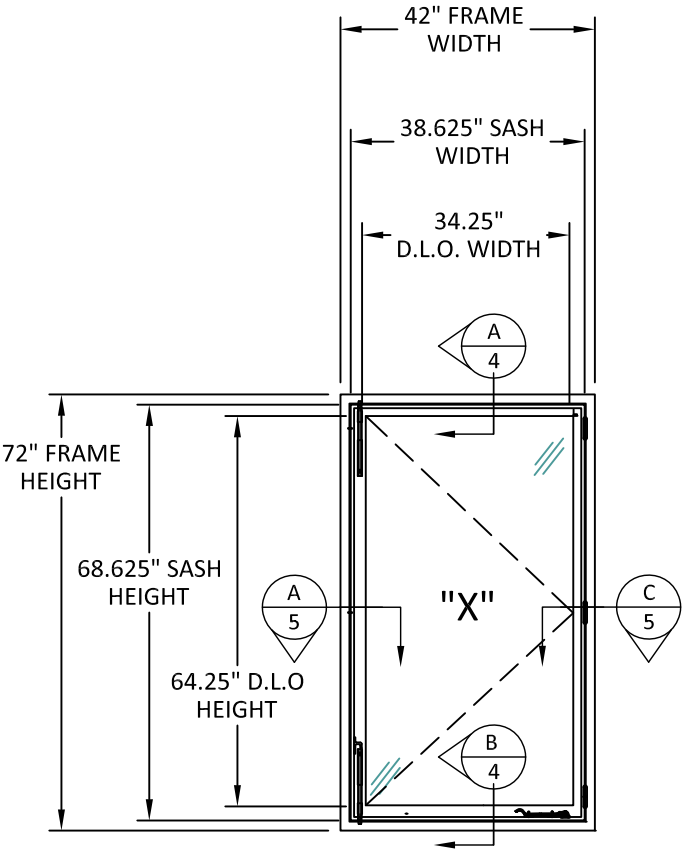
DWG. #: **CND002**

SHEET: **1**
OF 7

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ELEVATION
DOUBLE CASEMENT



ELEVATION
SINGLE CASEMENT



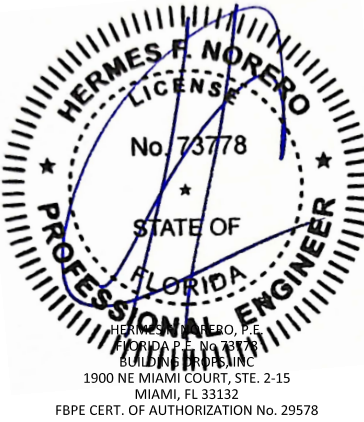
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TITLE: OUTSWING CASEMENT STEEL WINDOW (HVHZ) (IMPACT) ELEVATIONS

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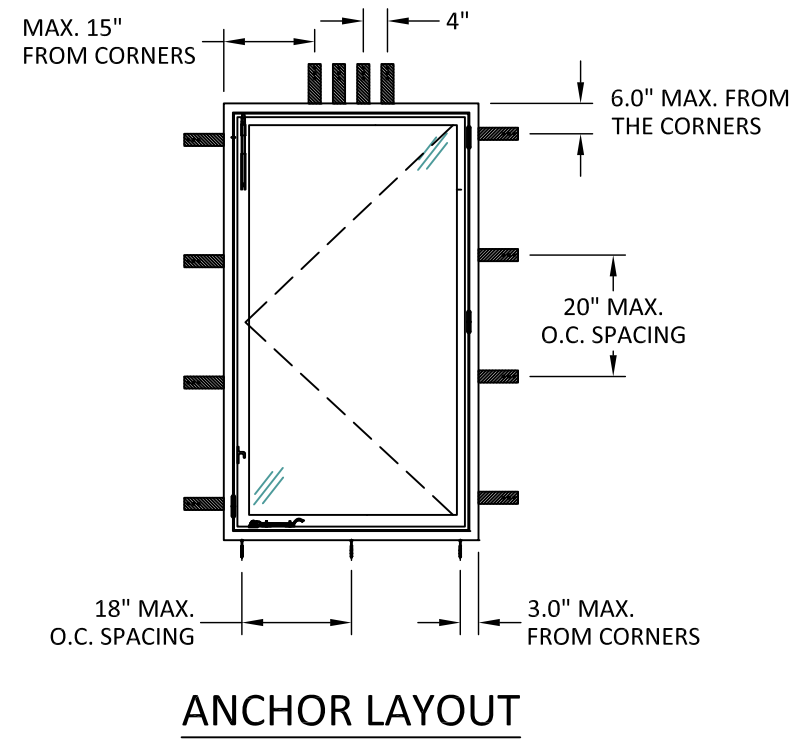
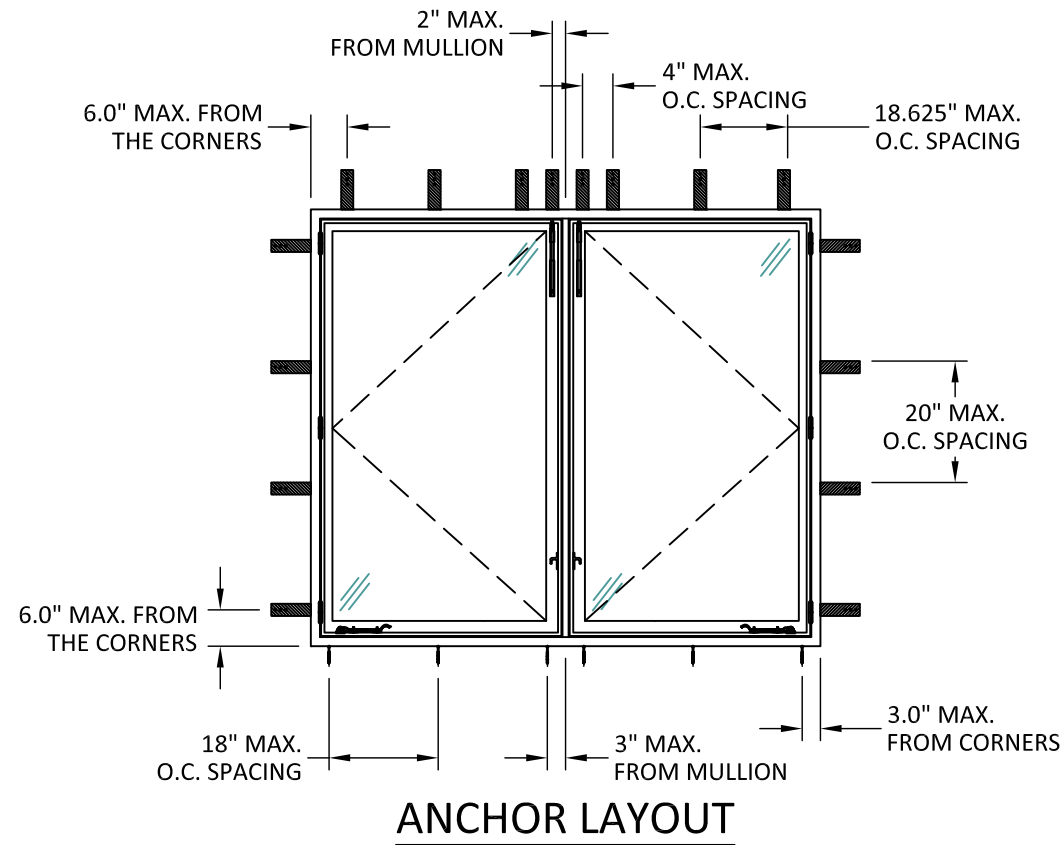
REMARKS	BY	DATE
A. TDL UPDATE	DI	04/26

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FL #:	FL47428
DATE:	05.05.25
DWG. BY:	CHK. BY:
HJ	HFN
SCALE:	NTS
DWG. #:	CND002
SHEET:	2
	OF 7

c:\users\dlankwata\building drops, inc\building drops landing - common\projects\cantera doors\fbc-2b-0382 - fl47428 steel casement window - method 1d\dwgs\cnd002.dwg 4/6/2026 12:29 PM



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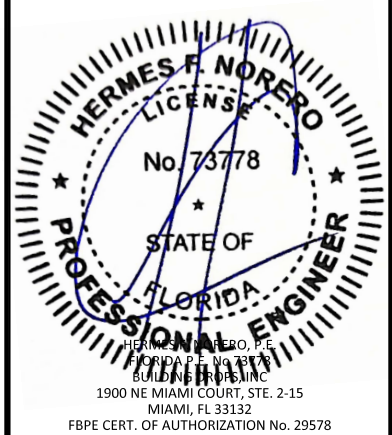
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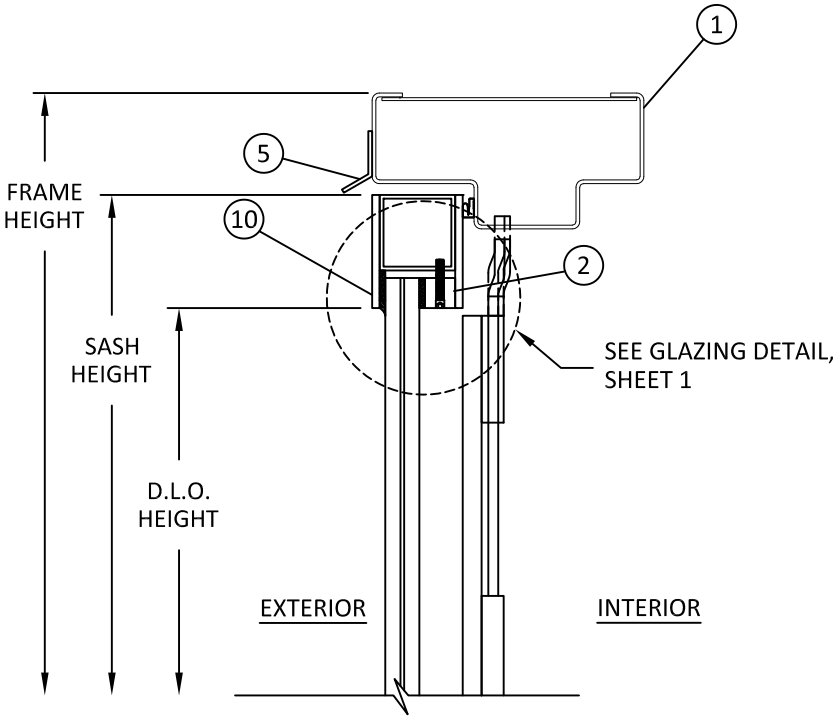


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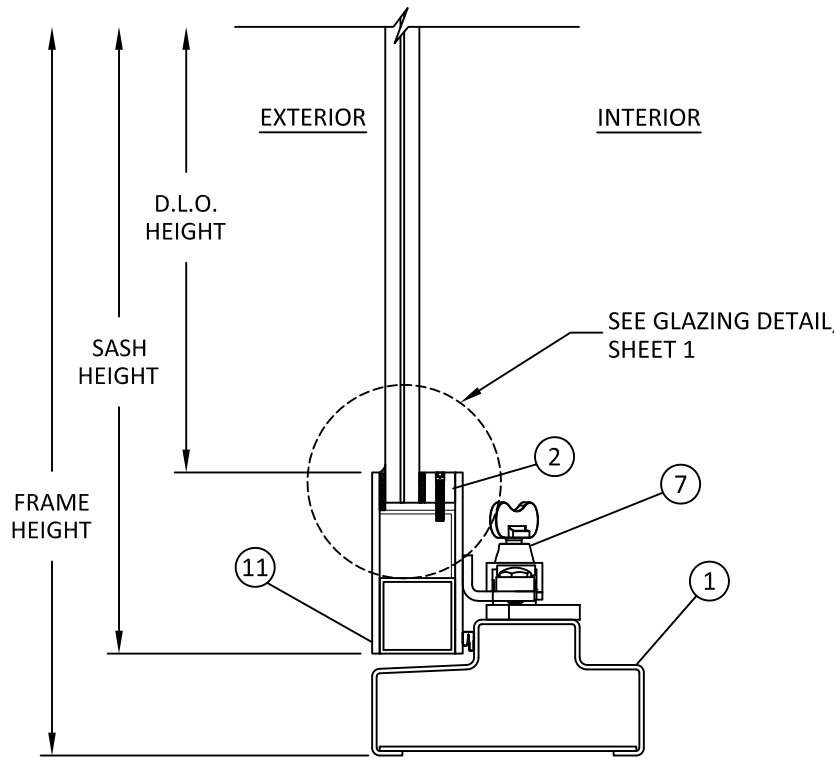
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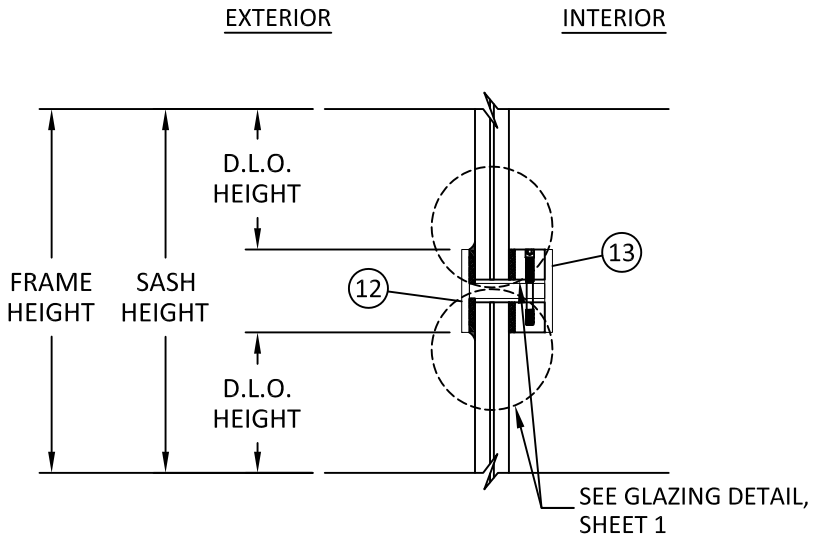
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DATE:	05.05.25
DWG. BY: HJ	CHK. BY: HFN
SCALE:	NTS
DWG. #:	CND002
SHEET:	3
	OF 7



A
4 VERTICAL SECTION
HEAD



B
4 VERTICAL SECTION
SILL



C
4 VERTICAL SECTION
TYP. TDL
OUTSWING CONFIG.



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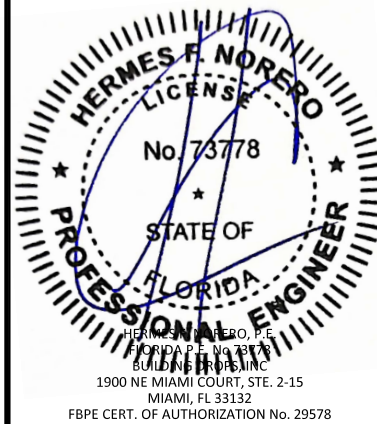
TITLE: OUTSWING CASEMENT STEEL
WINDOW
(HVHZ) (IMPACT)
VERTICAL SECTIONS

PREPARED BY:
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1900 NE MIAMI COURT, STE. 2-15
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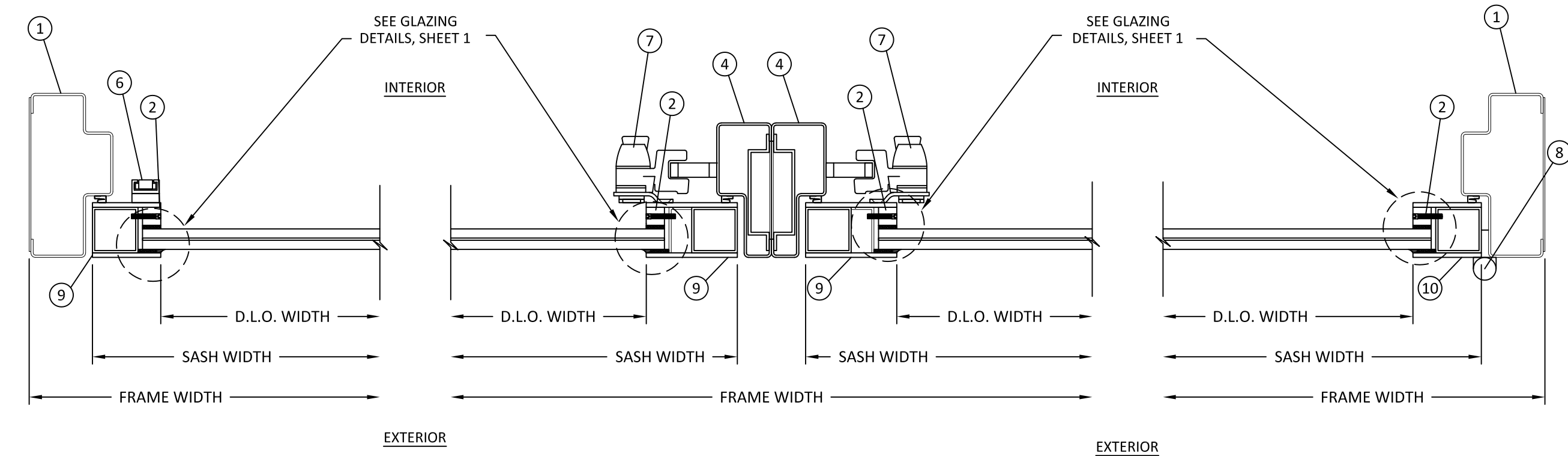
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	CND002
SHEET:	4

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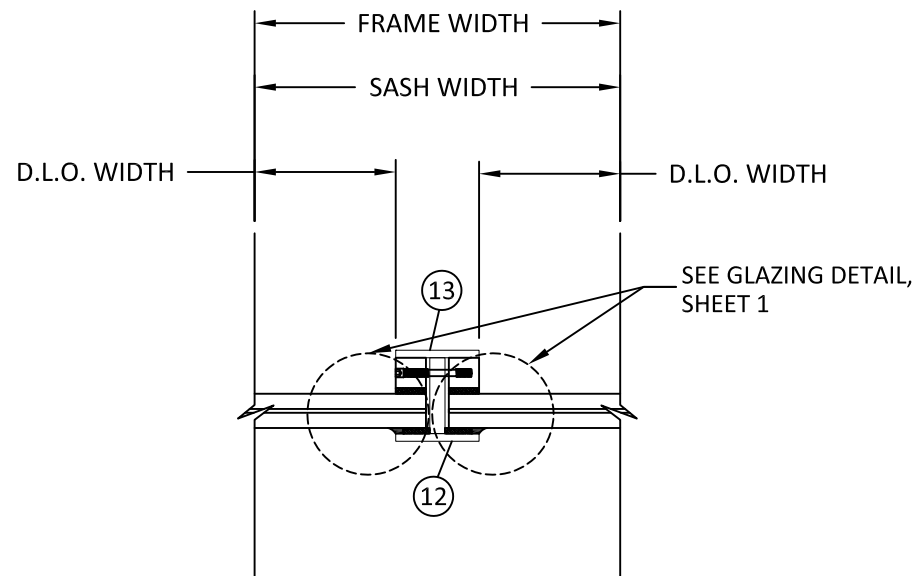
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A HORIZONTAL SECTION
5 LOCK JAMB

B HORIZONTAL SECTION
5 MULLION

C HORIZONTAL SECTION
5 HINGE JAMB



D HORIZONTAL SECTION
5 TYP. TDL
INSWING/OUTSWING CONFIG.



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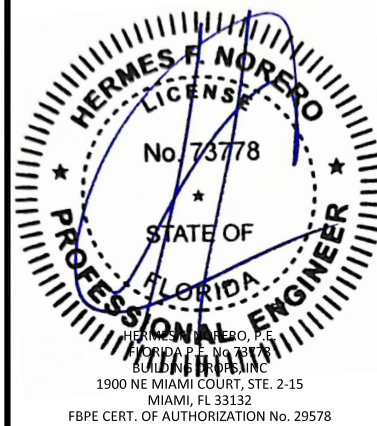
TITLE: OUTSWING CASEMENT STEEL
WINDOW
(HVHZ) (IMPACT)
HORIZONTAL SECTIONS

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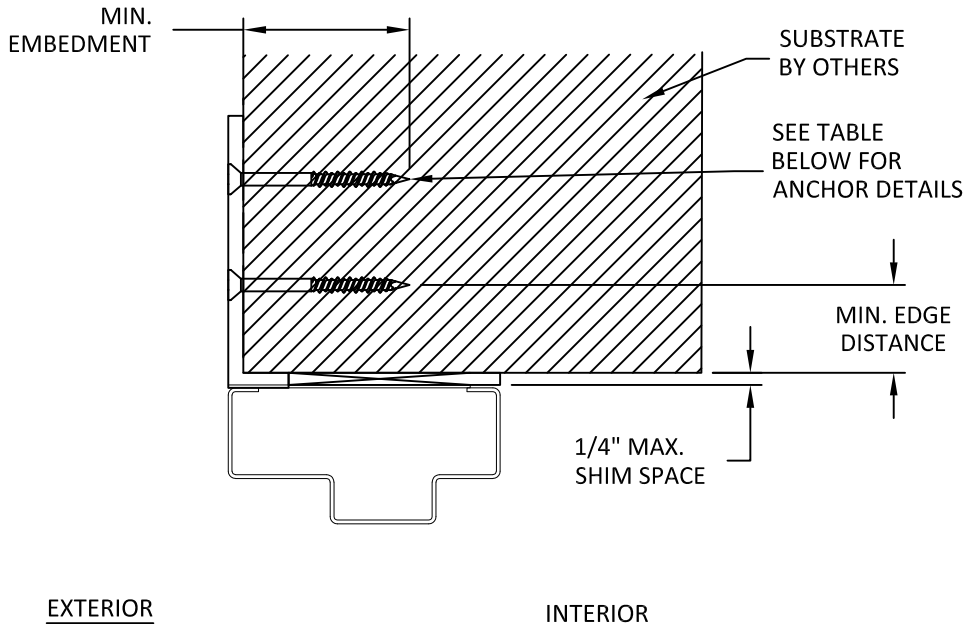
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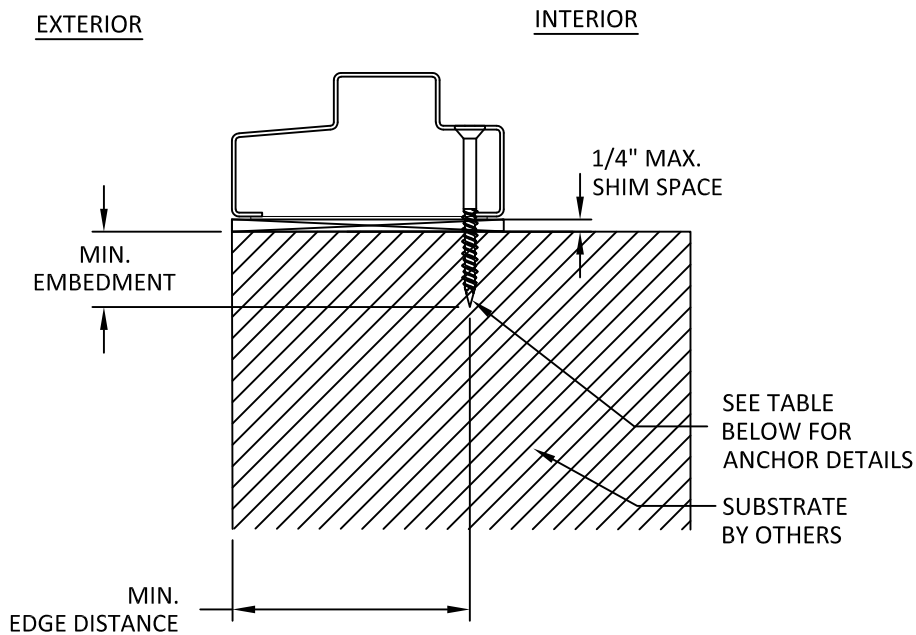
HERMES F. NORERO, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:		FL47428	
DATE:		05.05.25	
DWG. BY: HJ		CHK. BY: HFN	
SCALE:		NTS	
DWG. #:		CND002	
SHEET:		5	
		OF 7	



A
6 **VERTICAL SECTION**
HEAD - STRAP

NOTE: JAMB SIMILAR



B
6 **VERTICAL SECTION**
SILL - THROUGH FRAME

INSTALLATION NOTES:

- TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 3 AND 6.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ 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 1/4 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 TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MIN. SPACING
CLIP	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"	0.75"
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#14 SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"	0.50"
	CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.25"	2.00"	2.00"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	2.00"	2.00"
THROUGH FRAME	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"	0.75"
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#14 SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"	0.50"
	CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.25"	3.00"	4.00"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	3.00"	4.00"



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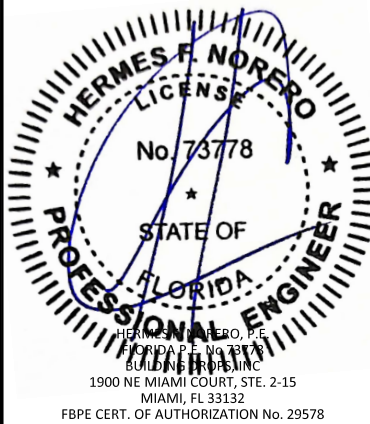
TITLE: OUTSWING CASEMENT STEEL WINDOW (HVHZ) (IMPACT) ANCHOR DETAILS & INSTALLATION NOTES

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

FL47428

DATE: **05.05.25**

DWG. BY: HJ	CHK. BY: HFN
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SCALE: **NTS**

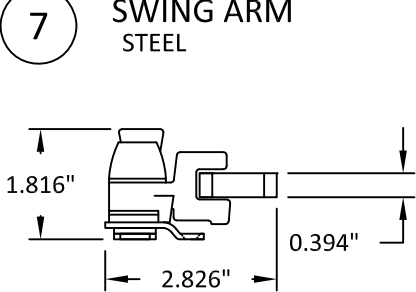
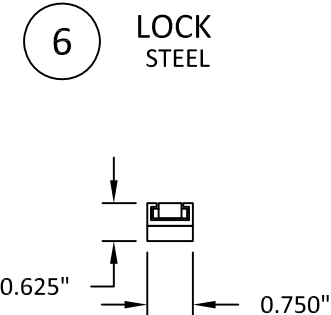
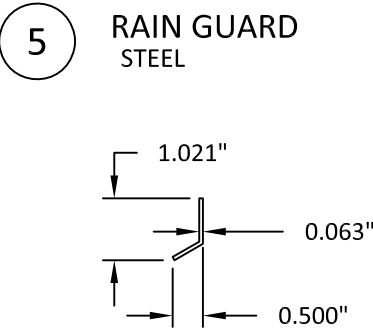
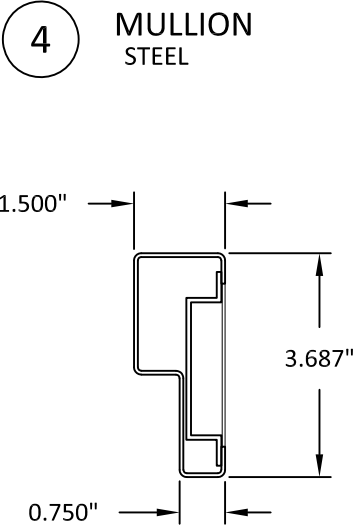
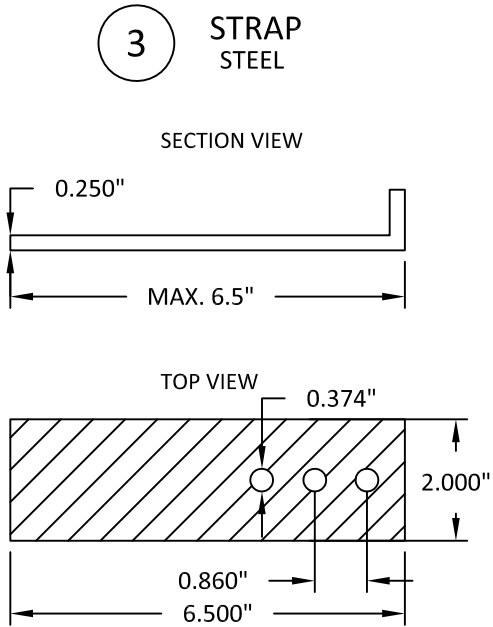
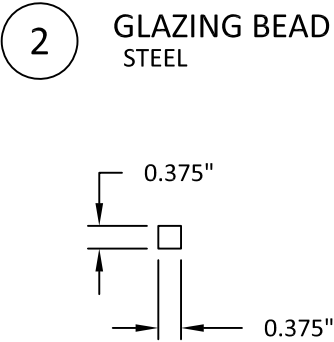
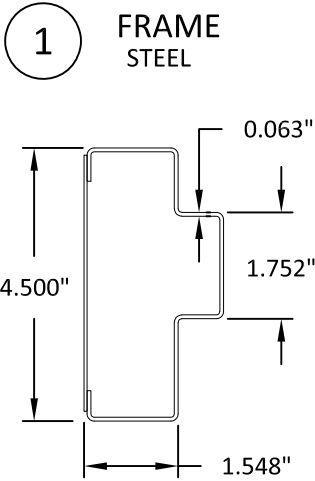
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SHEET:

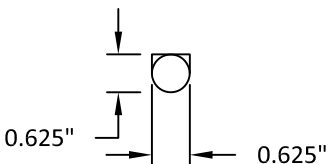
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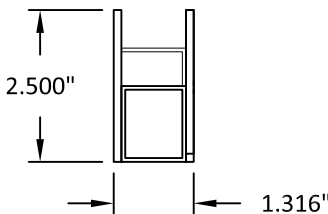
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3	-	STRAP	STEEL
4	-	MULLION	STEEL
5	-	RAIN GUARD	STEEL
6	-	LOCK	STEEL
7	-	SWING ARM	STEEL
8	-	HINGE	STEEL
9	-	LOCK STILE	STEEL
10	-	HEAD AND HINGE STILE	STEEL
11	-	SILL STILE	STEEL
12	-	TDL	STEEL
13	-	TDL GLAZING BEAD	STEEL



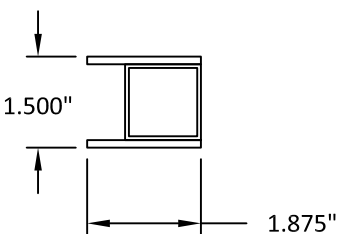
8 HINGE STEEL



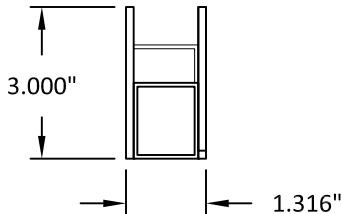
9 LOCK STILE STEEL



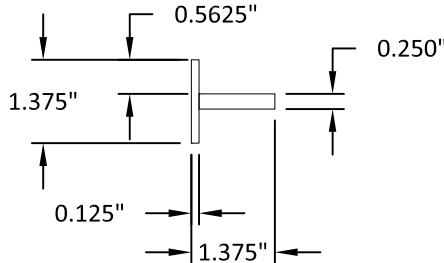
10 HEAD AND HINGE STILE STEEL



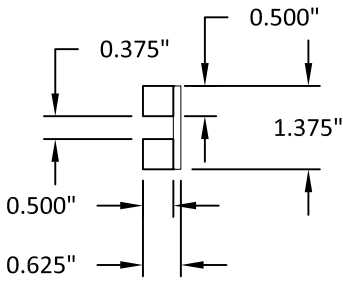
11 SILL STILE STEEL



12 TDL STEEL



13 TL GLAZING BEAD STEEL



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PH: +1(512)764-0997

TITLE: OUTSWING CASEMENT STEEL
WINDOW
(HVHZ) (IMPACT)

BILL OF MATERIALS & COMPONENTS

PREPARED BY:

BUILDING DROPS, INC.
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MIAMI, FL 33132
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REMARKS	BY	DATE
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DATE: **05.05.25**

DWG. BY: **HJ** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **CND002**

SHEET: **7**
OF 7