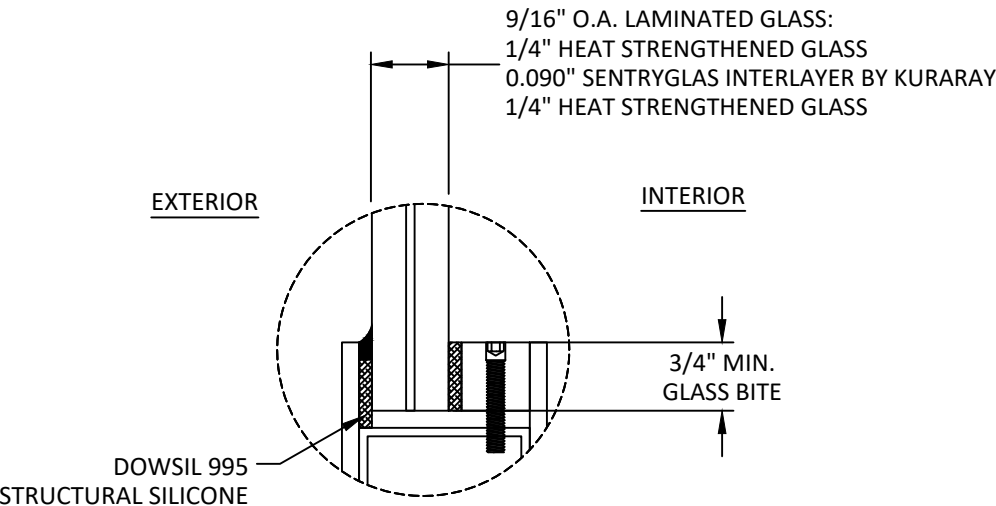


CANTERA DOORS AND MORE INC.

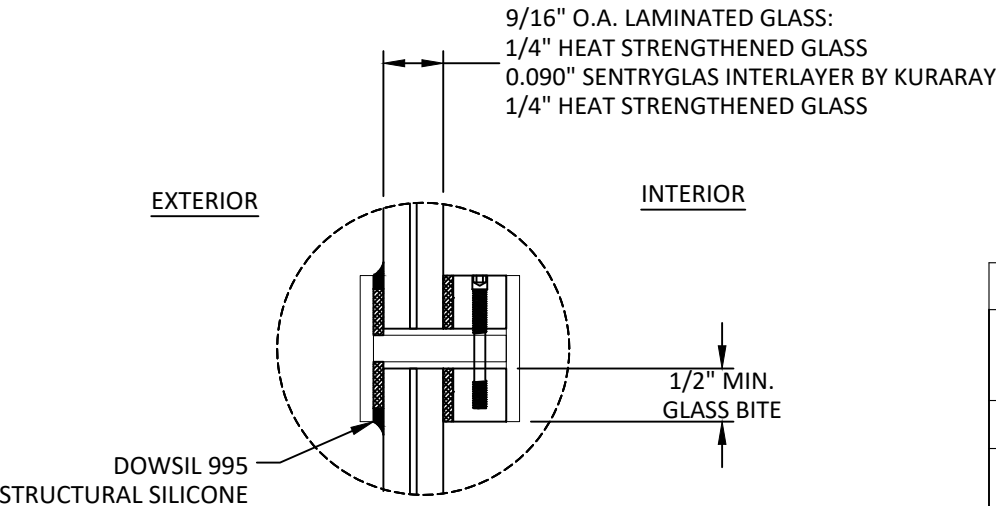
INSWING/OUTSWING STEEL IMPACT DOORS (HVHZ)(IMPACT)

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 ±1/2 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.
- 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
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6	ANCHOR LAYOUTS
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10	HORIZONTAL SECTIONS
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12	ANCHOR DETAILS AND INSTALLATION NOTES
13	BILL OF MATERIALS & COMPONENTS
14	COMPONENTS
15	COMPONENTS

DESIGN PRESSURE RATING (PSF)				
CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
OXXO	222"	120"	+/-75 PSF	LARGE & SMALL MISSILE IMPACT
XX (EYEBROW)	84"	120"	+/-75 PSF	
XX (ROUNDTOP)	84"	120"	+/-75 PSF	
XX	84"	120"	+/-75 PSF	
OXXO	129"	88"	+/-75 PSF	



22108 HWY 71 WEST, SUITE 4-404
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TITLE: INSWING/OUTSWING STEEL DOORS (HVHZ) (IMPACT)
GENERAL NOTES & GLAZING DETAIL

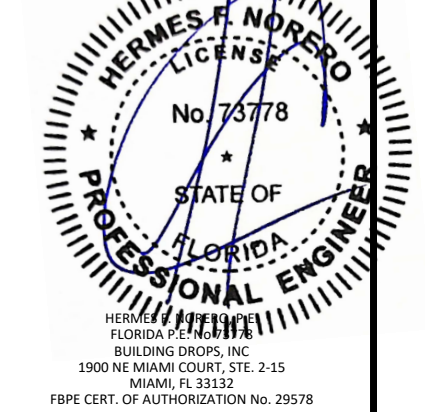
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



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Digitally signed by Hermes F. Norero P.E.
Reason: I am approving this document
Date: 2026.09.15 12:15:07 -0400



HERMES F. NORERO
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 #:

FL47429

DATE:

05.05.25

DWG. BY:

HJ

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

CND003

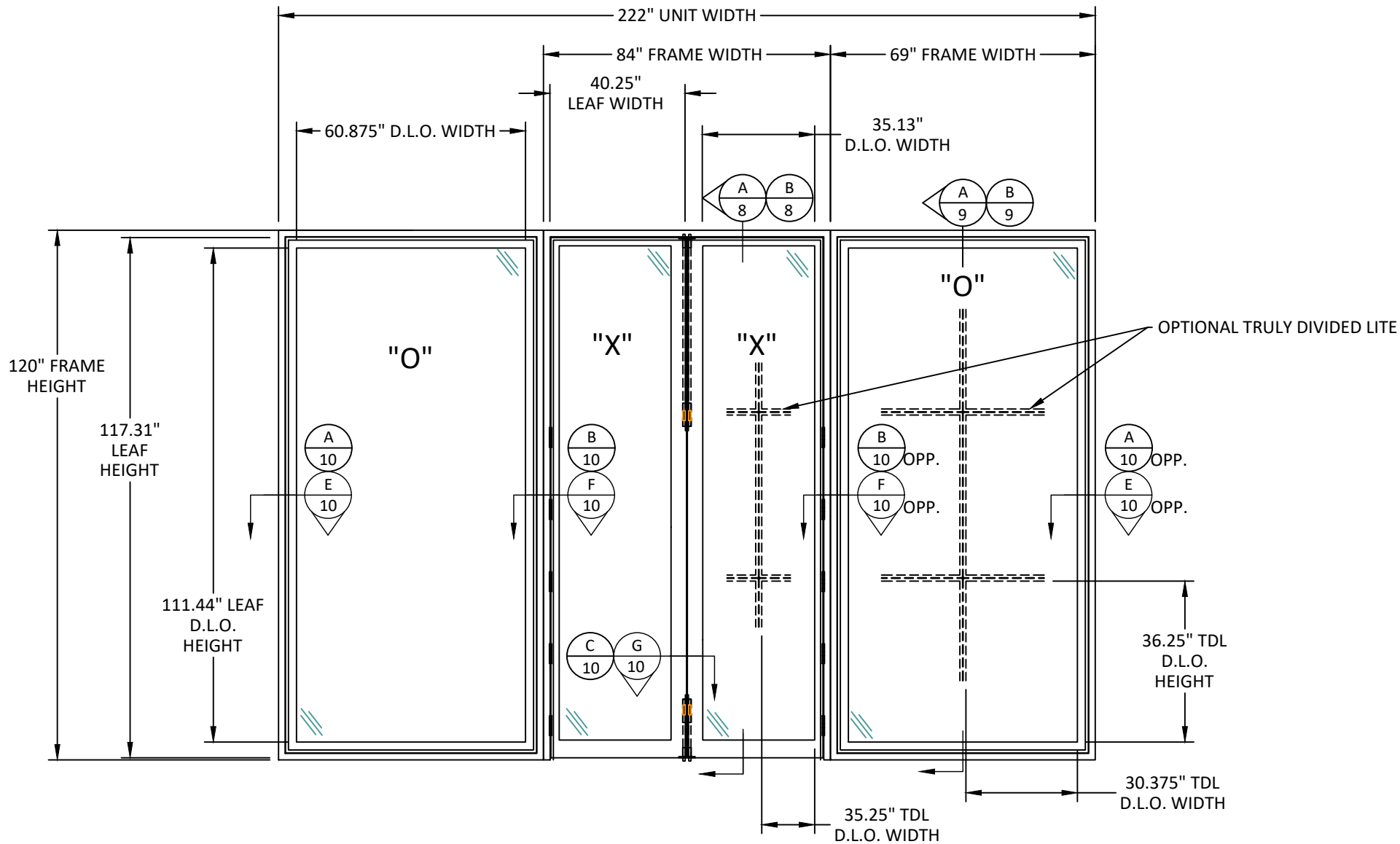
SHEET:

1

REV.

A

OF 15



ELEVATION
INSWING/OUTSWING DOUBLE DOOR WITH SIDELITES

NOTE: SINGLE SIDELITE ALSO QUALIFIED AT
SIZE SHOWN ABOVE



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TITLE: INSWING/OUTSWING STEEL
DOORS (HVHZ) (IMPACT)

ELEVATION

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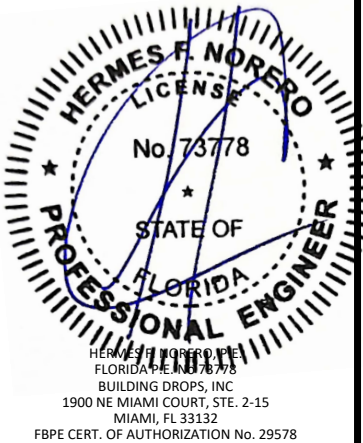
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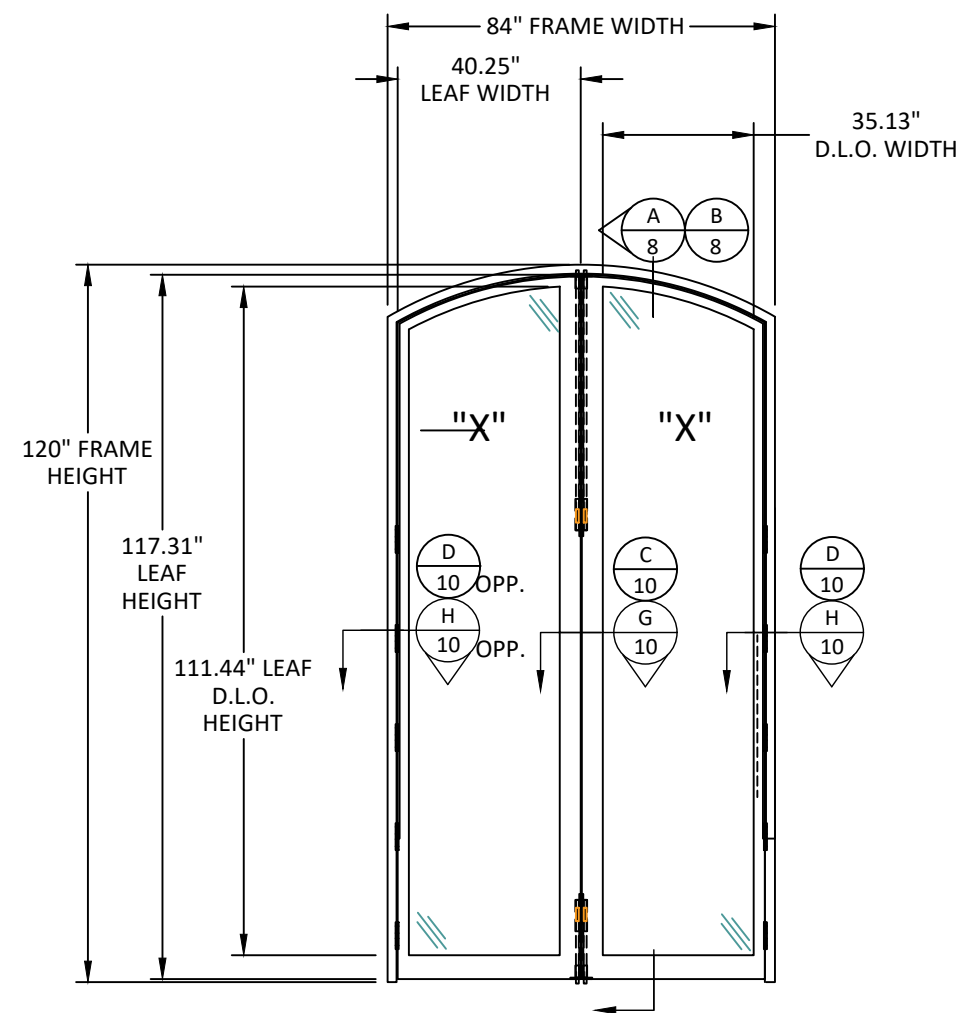


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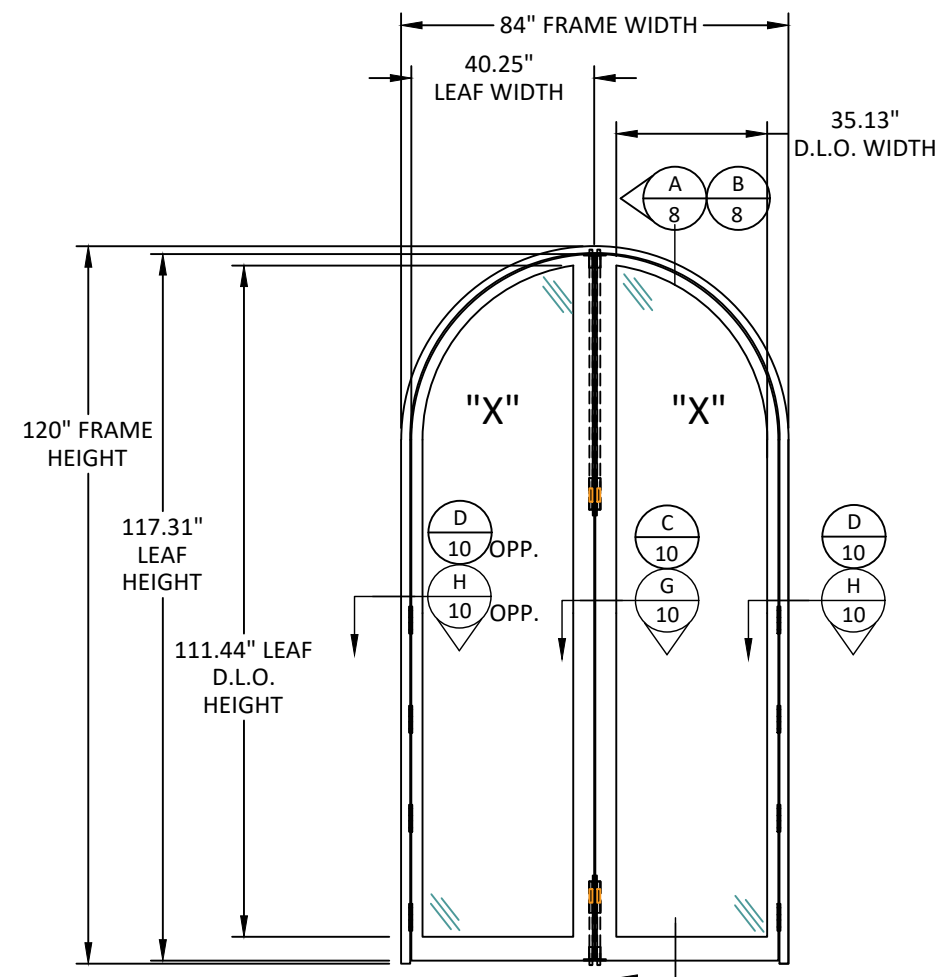


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SCALE:	NTS
DWG. #:	CND003
SHEET:	REV.
2	A
OF 15	



ELEVATION
IN SWING/OUT SWING EYEBROW DOUBLE DOOR

NOTE: SINGLE DOOR CONFIGURATION
QUALIFIED AT HALF THE FRAME WIDTH
SHOWN ABOVE



ELEVATION
IN SWING/OUT SWING ROUNDTOP DOUBLE DOOR



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TITLE: INSWING/OUTSWING STEEL
DOORS (HVHZ) (IMPACT)

ELEVATIONS

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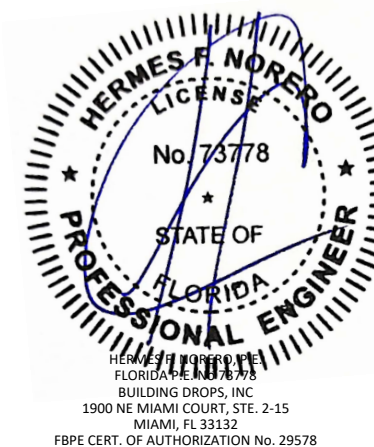
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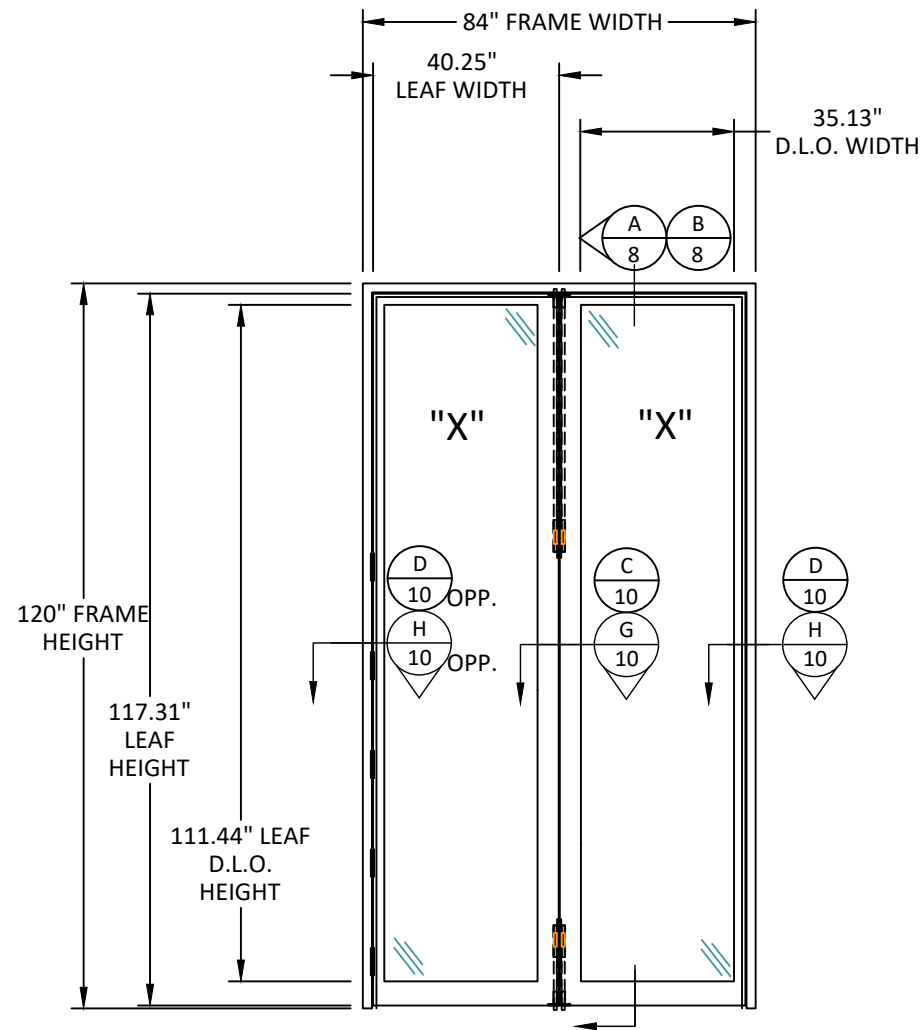
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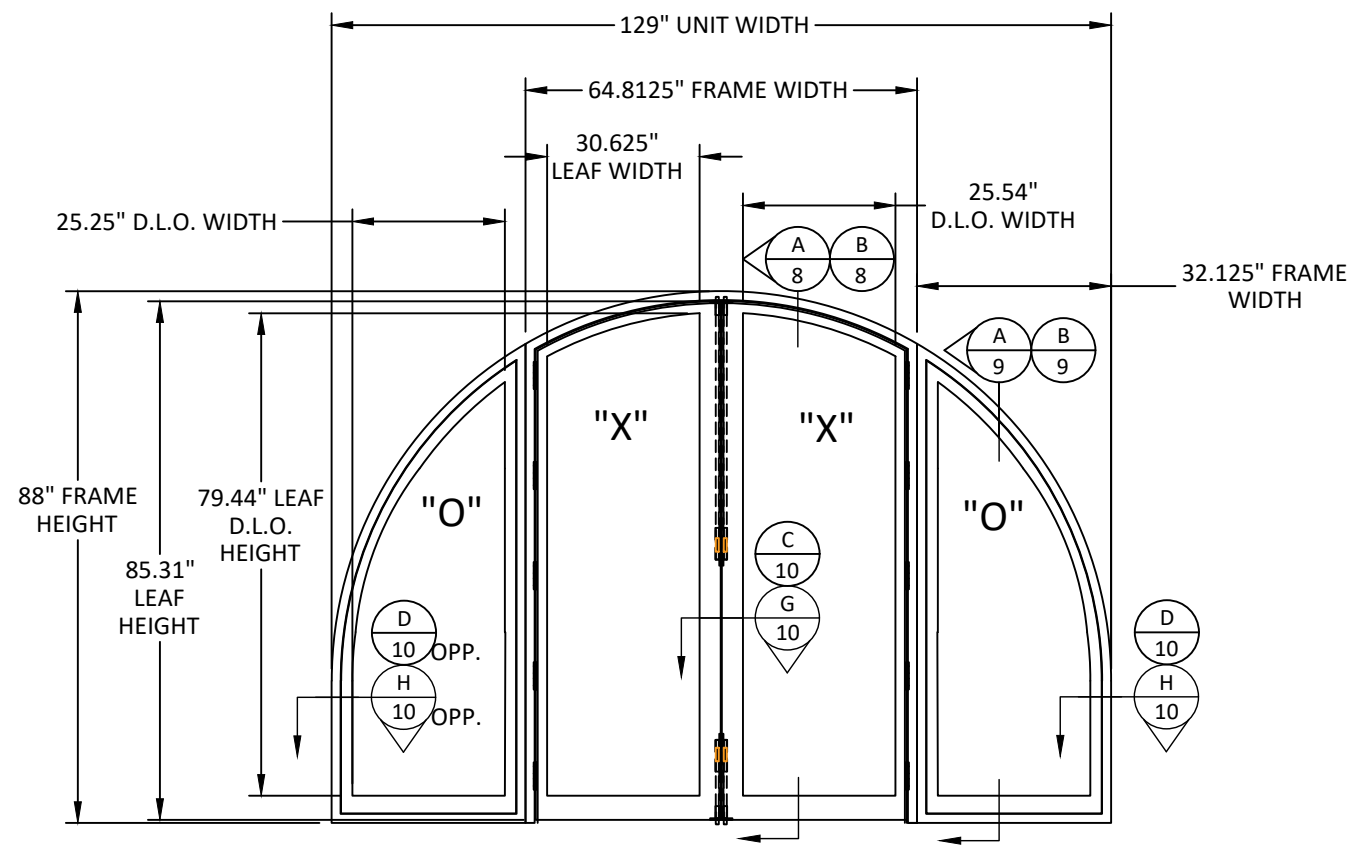
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OF 15



ELEVATION
RECTANGULAR INSWING/OUTSWING DOUBLE DOOR

NOTE: SINGLE DOOR CONFIGURATION
QUALIFIED AT HALF THE FRAME WIDTH
SHOWN ABOVE



ELEVATION
ARCHTOP OUTSWING DOUBLE DOOR WITH SIDELITES

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TITLE: INSWING/OUTSWING STEEL
DOORS (HVHZ) (IMPACT)

ELEVATIONS

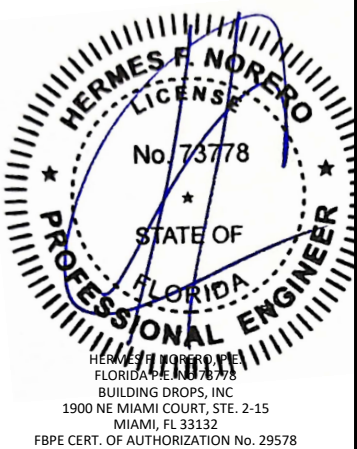
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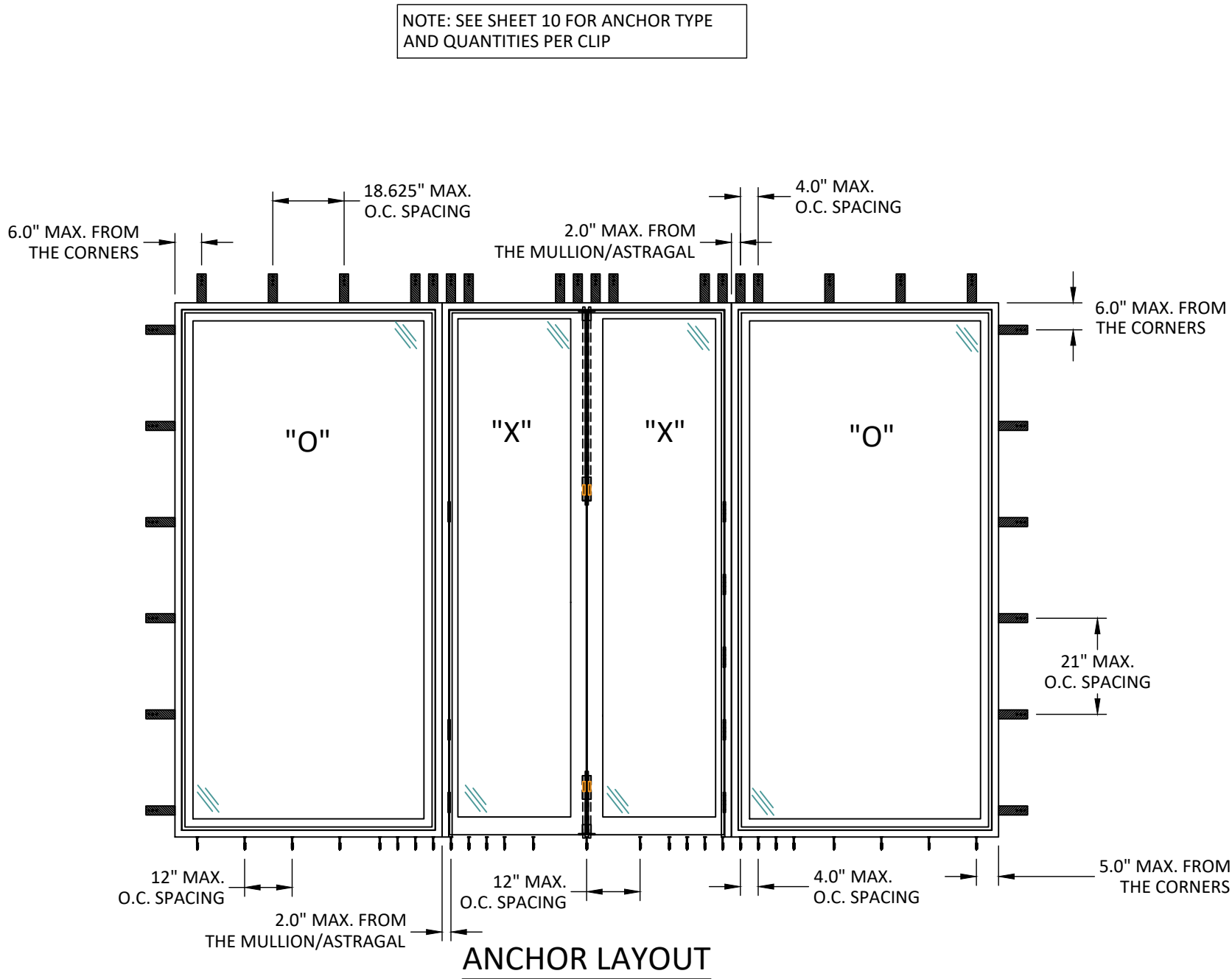
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DWG. #: CND003

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22108 HWY 71 WEST, SUITE 4-404
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TITLE: INSWING/OUTSWING STEEL DOORS (HVHZ) (IMPACT)

ANCHOR LAYOUT

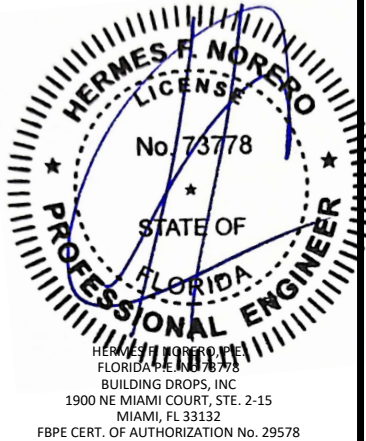
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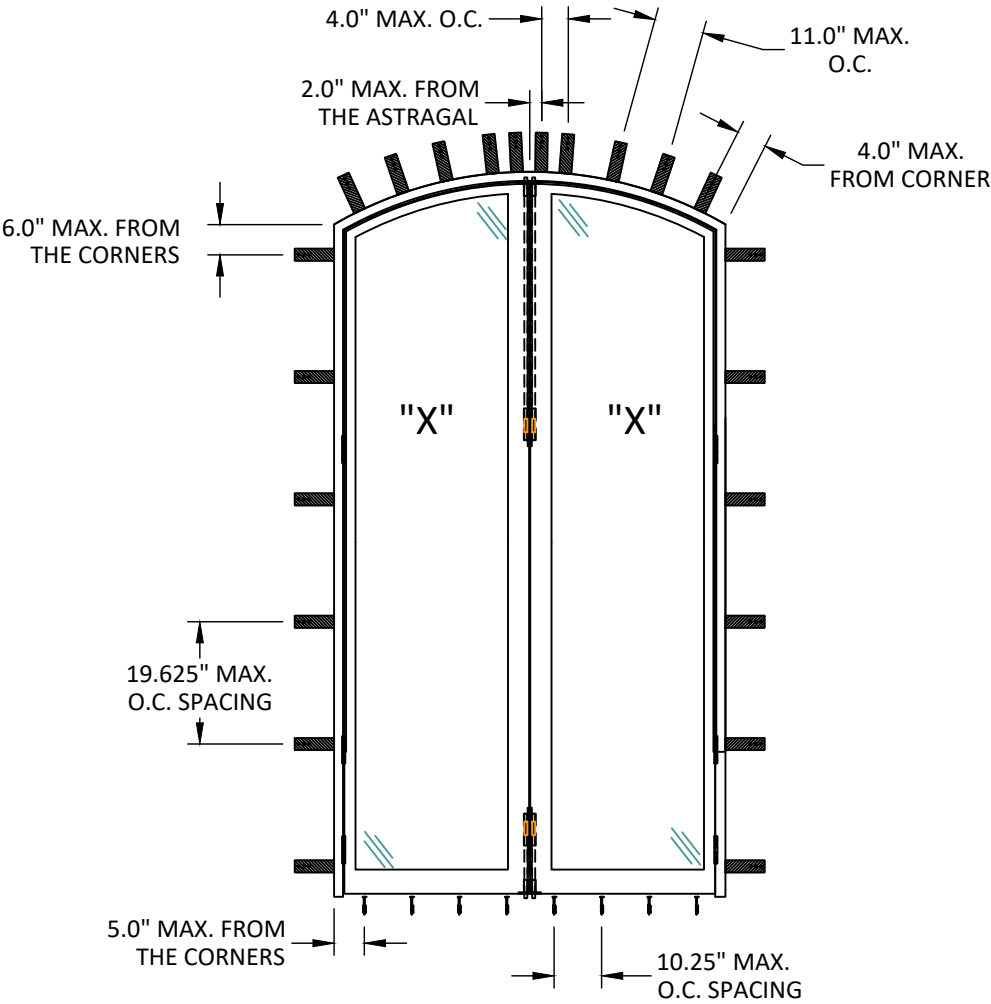
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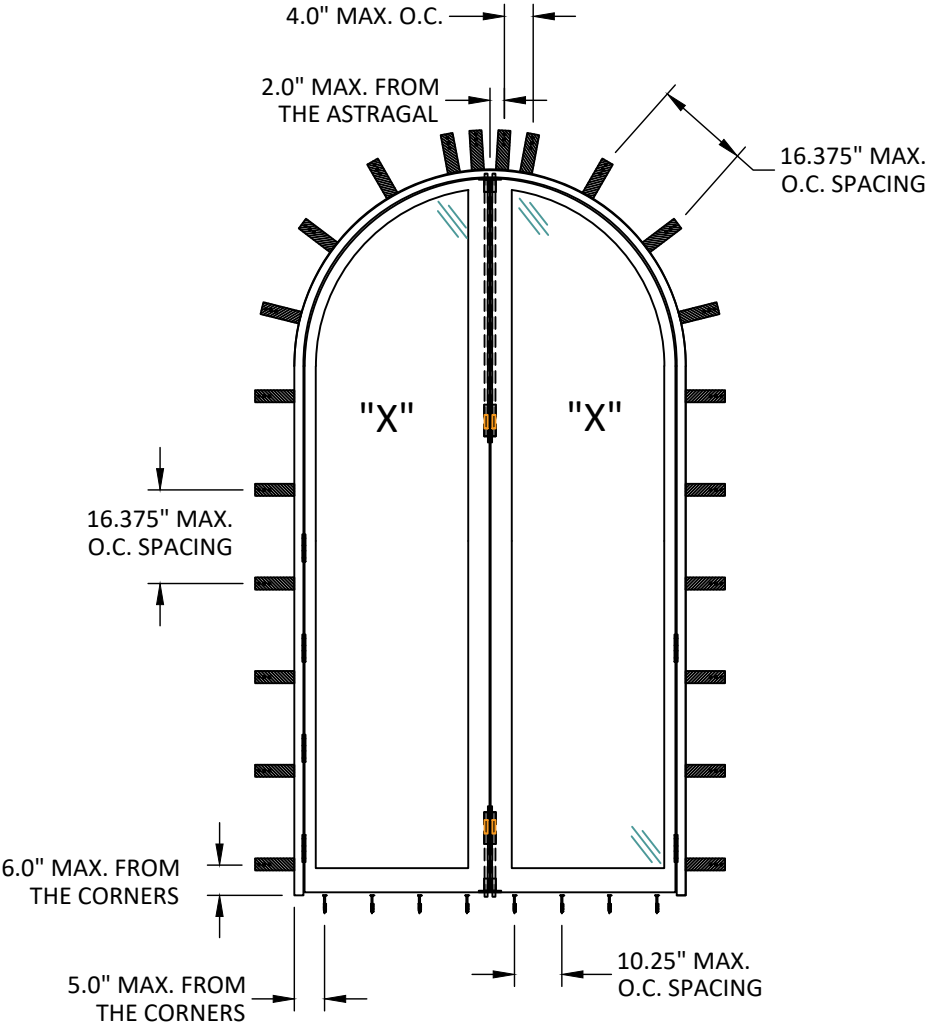
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REV. **A**

NOTE: SEE SHEET 10 FOR ANCHOR TYPE AND QUANTITIES PER CLIP



ANCHOR LAYOUT



ANCHOR LAYOUT



22108 HWY 71 WEST, SUITE 4-404
SPICEWOOD, TX 78669
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TITLE: INSWING/OUTSWING STEEL DOORS (HVHZ) (IMPACT)

ANCHOR LAYOUTS

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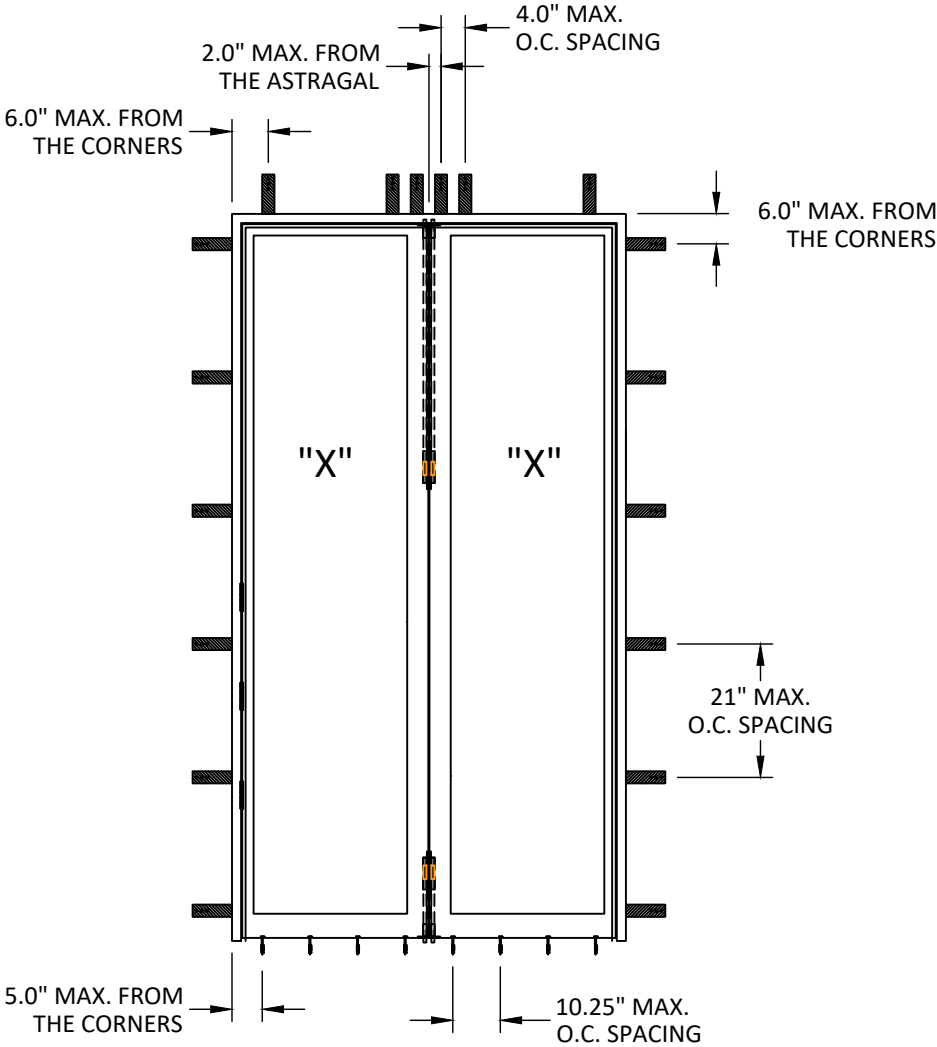
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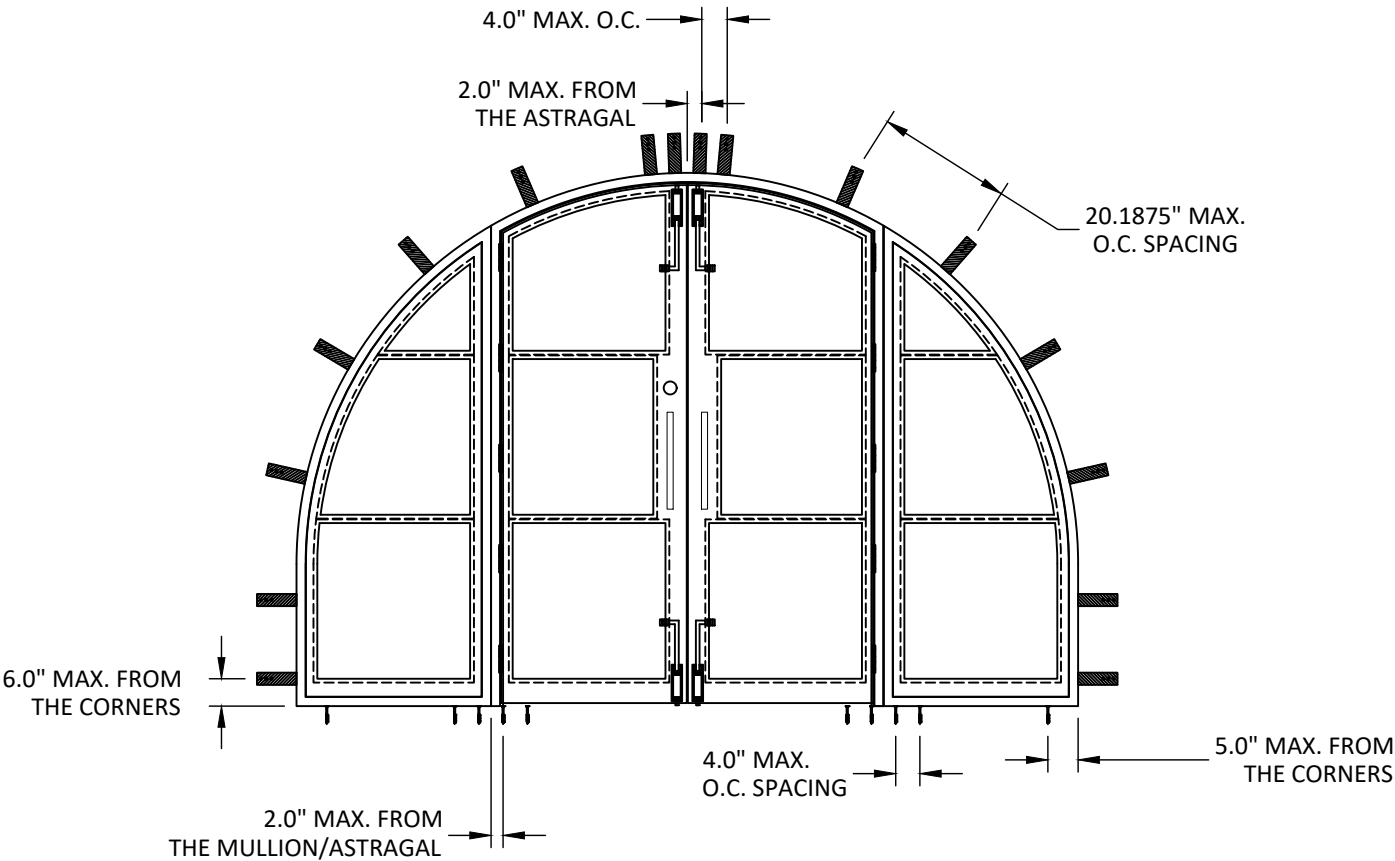
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REV. A

NOTE: SEE SHEET 10 FOR ANCHOR TYPE
AND QUANTITIES PER CLIP



ANCHOR LAYOUT



22108 HWY 71 WEST, SUITE 4-404
SPICEWOOD, TX 78669
PH: +1(512)263-8881

TITLE: INSWING/OUTSWING STEEL
DOORS (HVHZ) (IMPACT)

ANCHOR LAYOUTS

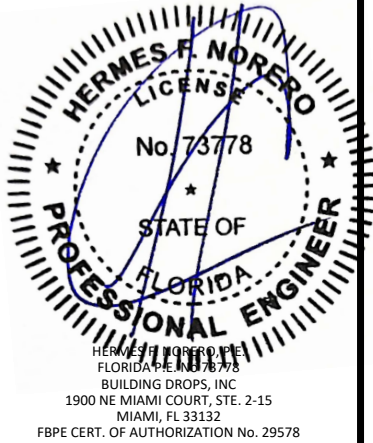
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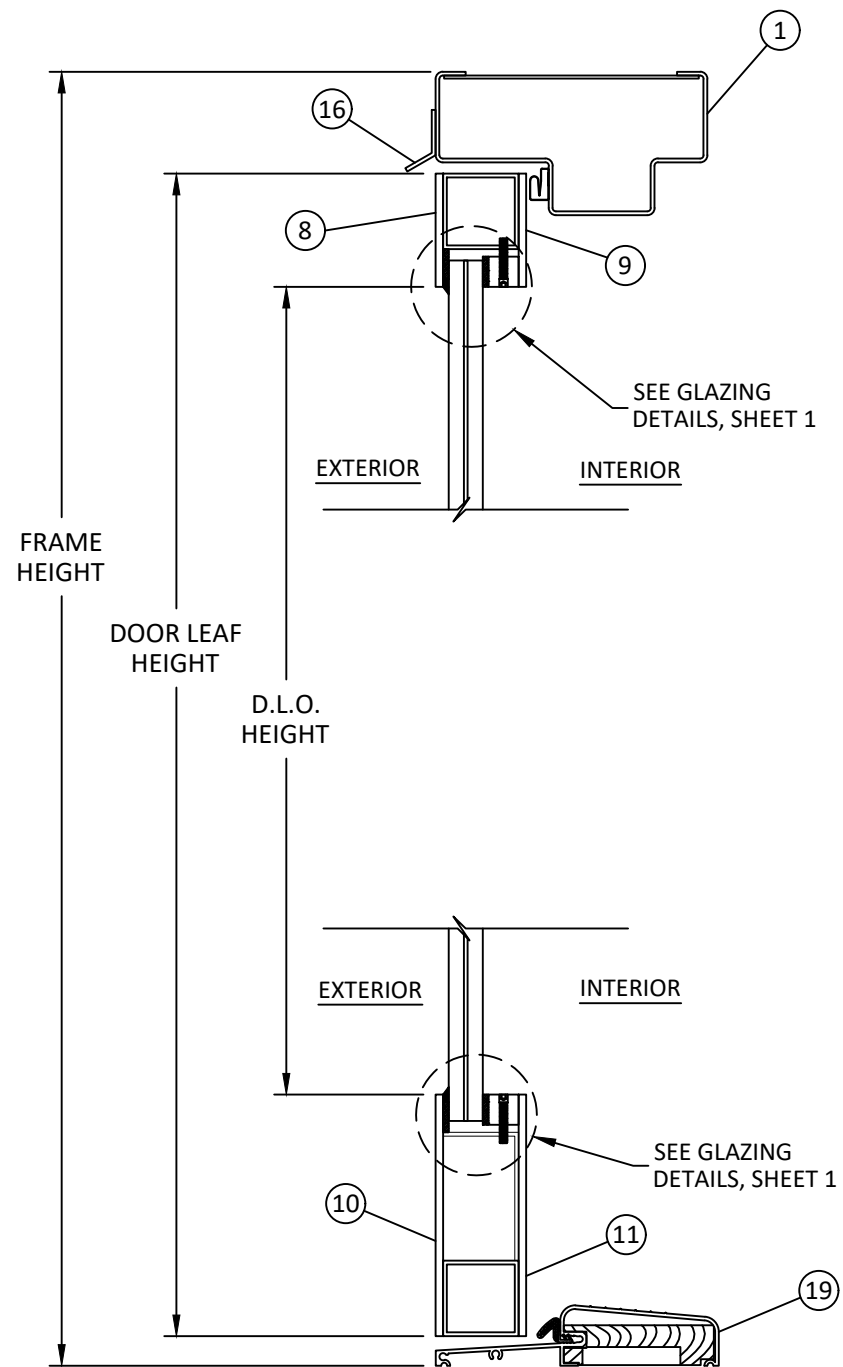
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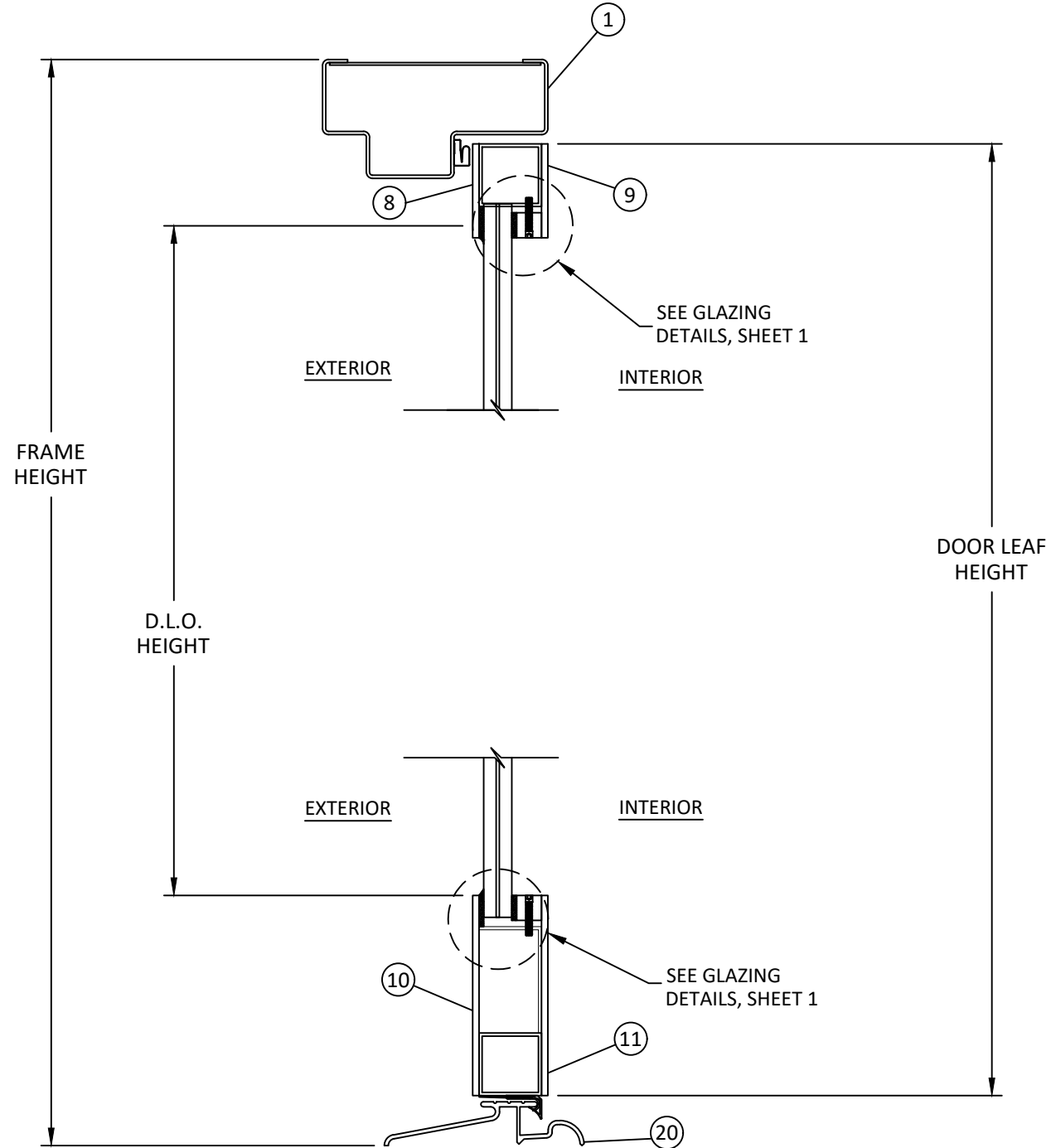
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A
8 VERTICAL SECTION
OUTSWING DOOR



B
8 VERTICAL SECTION
INSWING DOOR



22108 HWY 71 WEST, SUITE 4-404
SPICEWOOD, TX 78669
PH: +1(512)263-8881

TITLE: INSWING/OUTSWING STEEL
DOORS (HVHZ) (IMPACT)

VERTICAL SECTIONS

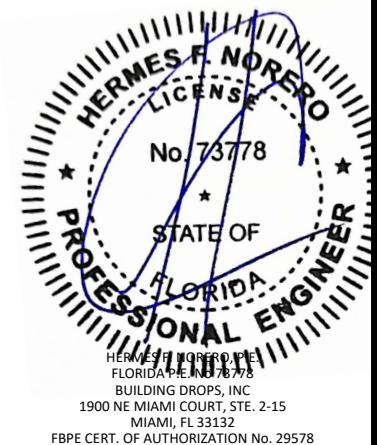
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MIAMI, FL 33132

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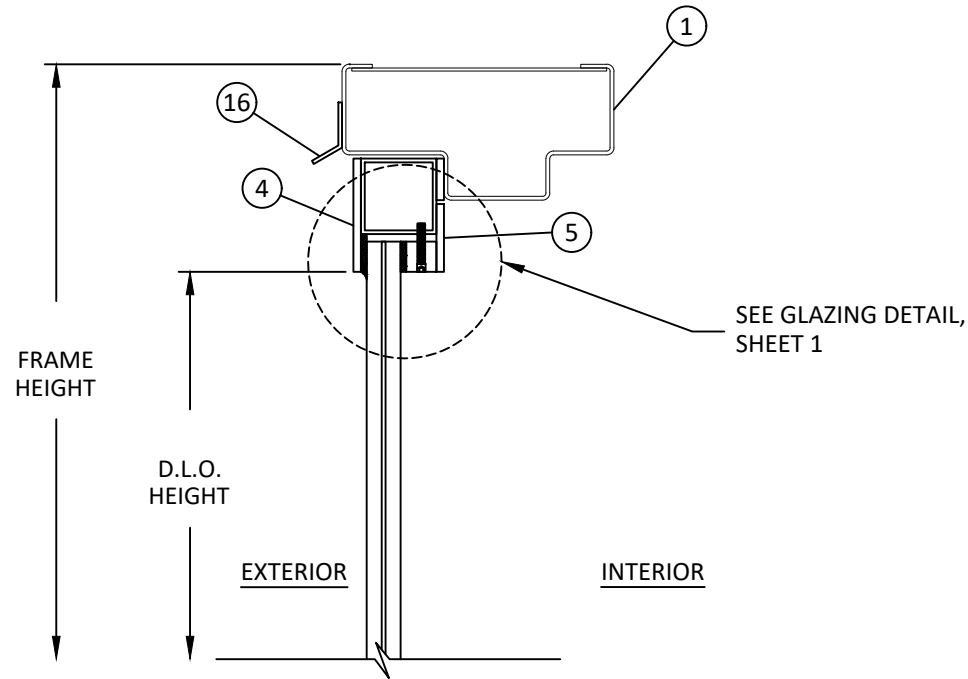
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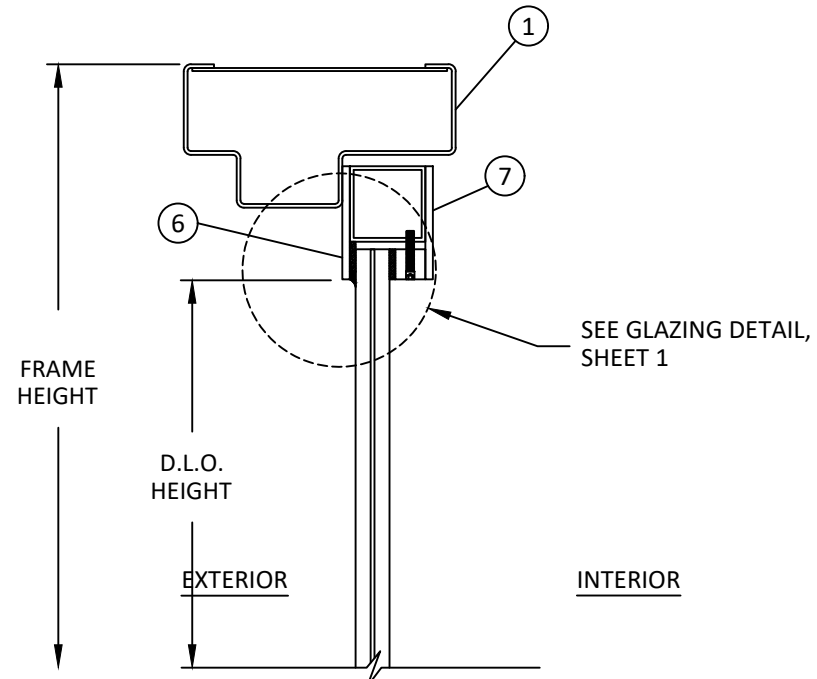
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HJ	HFN
SCALE:	NTS
DWG. #:	CND003
SHEET:	REV.
8	A

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A
9 VERTICAL SECTION
TYP. SIDELITE
OUTSWING CONFIG.



B
9 VERTICAL SECTION
TYP. SIDELITE
INSWING CONFIG.



22108 HWY 71 WEST, SUITE 4-404
SPICEWOOD, TX 78669
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TITLE: INSWING/OUTSWING STEEL
DOORS (HVHZ) (IMPACT)

VERTICAL SECTIONS

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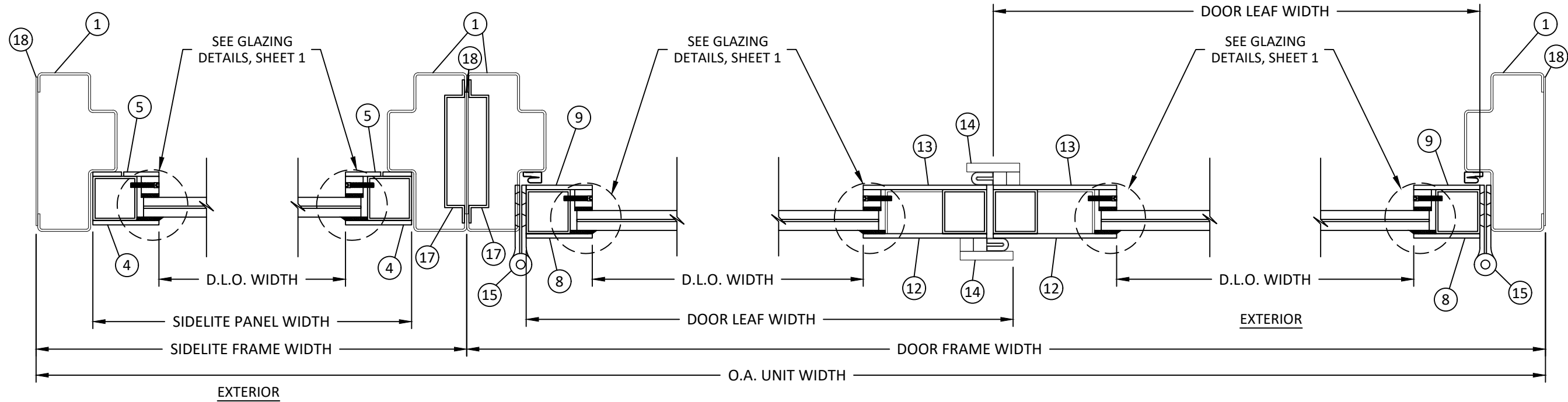
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DWG. #:	CND003
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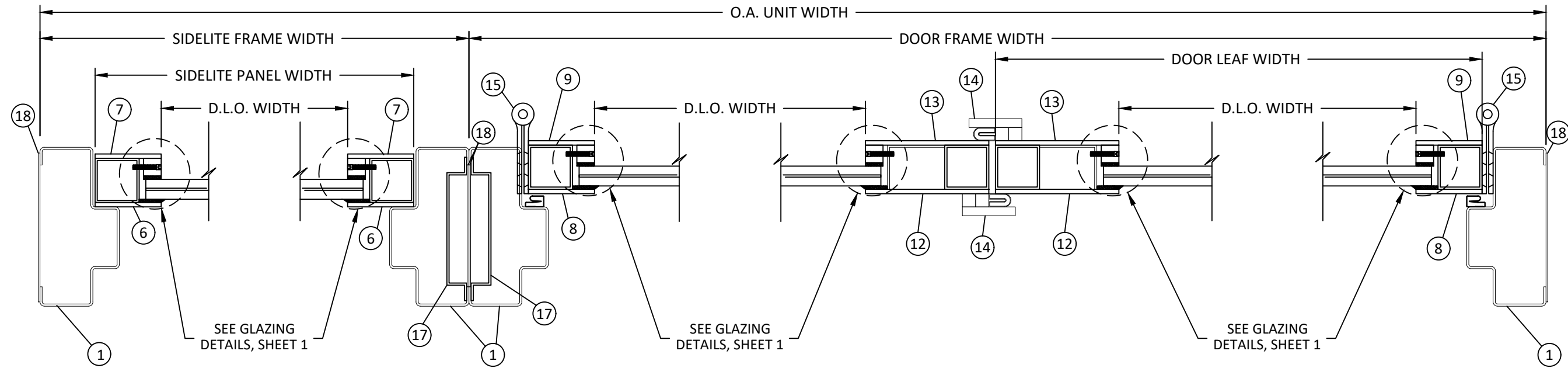


A
10 HORIZONTAL SECTION
OUTSWING SIDELITE JAMB

B
10 HORIZONTAL SECTION
OUTSWING SIDELITE TO DOOR MULLION

C
10 HORIZONTAL SECTION
OUTSWING DOOR ASTRAGAL

D
10 HORIZONTAL SECTION
OUTSWING DOOR JAMB



E
10 HORIZONTAL SECTION
INSWING SIDELITE JAMB

F
10 HORIZONTAL SECTION
INSWING SIDELITE TO DOOR MULLION

G
10 HORIZONTAL SECTION
INSWING DOOR ASTRAGAL

H
10 HORIZONTAL SECTION
INSWING DOOR JAMB



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PH: +1(512)263-8881

TITLE: INSWING/OUTSWING STEEL
DOORS (HVHZ) (IMPACT)

HORIZONTAL SECTIONS

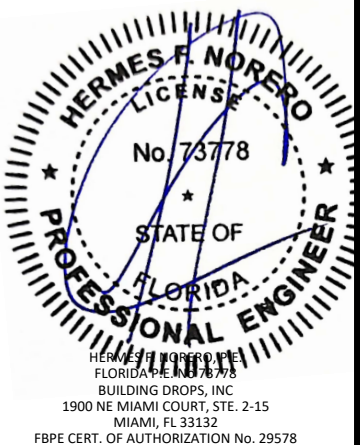
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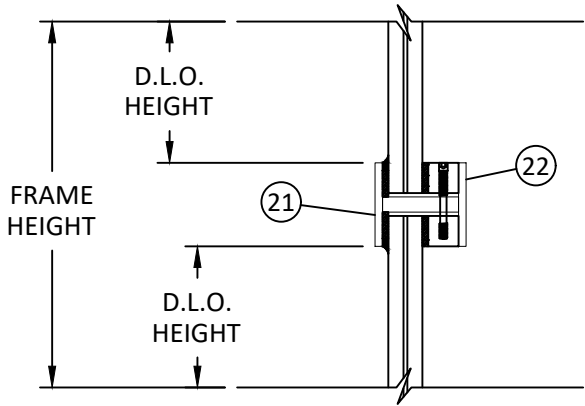


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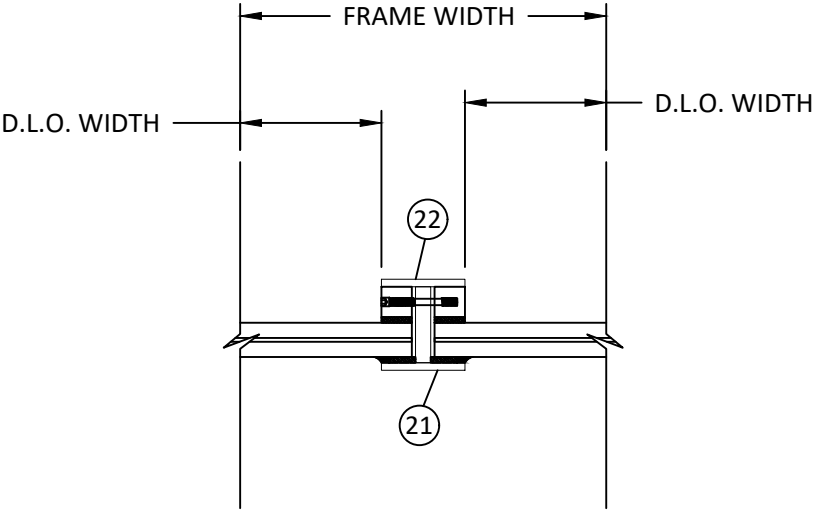
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	CND003
SHEET:	10
REV.	A



A
11 **VERTICAL SECTION**
TYP. TDL
INSWING/OUTSWING CONFIG.



B
11 **HORIZONTAL SECTION**
TYP. TDL
INSWING/OUTSWING CONFIG.



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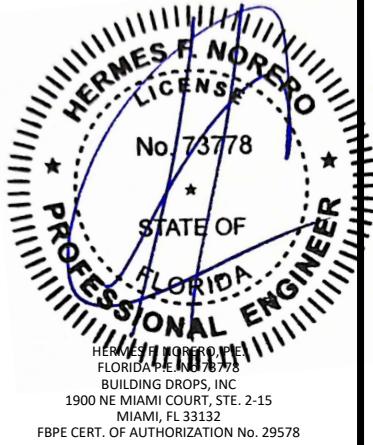
TITLE: INSWING/OUTSWING STEEL
DOORS (HVHZ) (IMPACT)
TDL VERTICAL &
HORIZONTAL SECTIONS

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DWG. BY: HJ	CHK. BY: HFN
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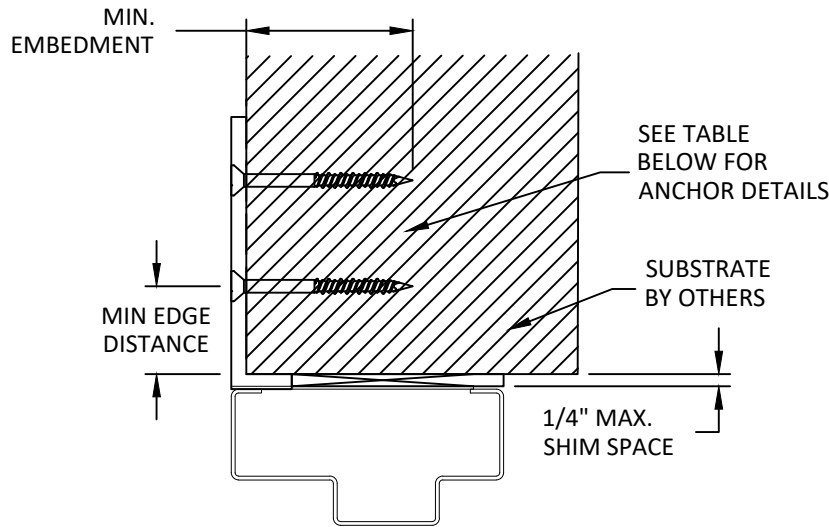
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DWG. #: **CND003**

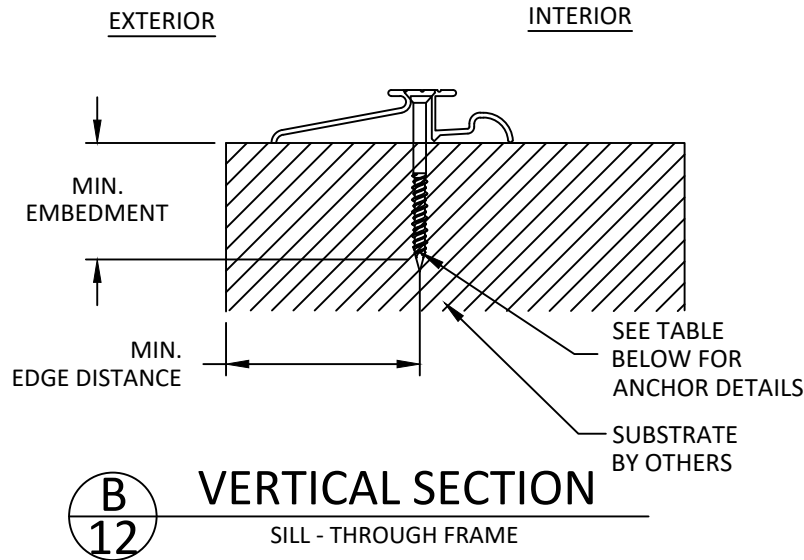
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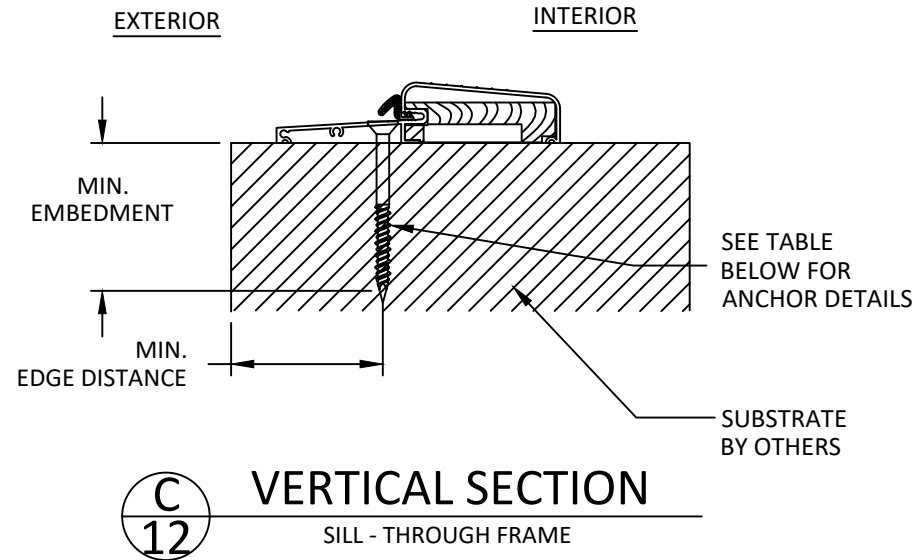
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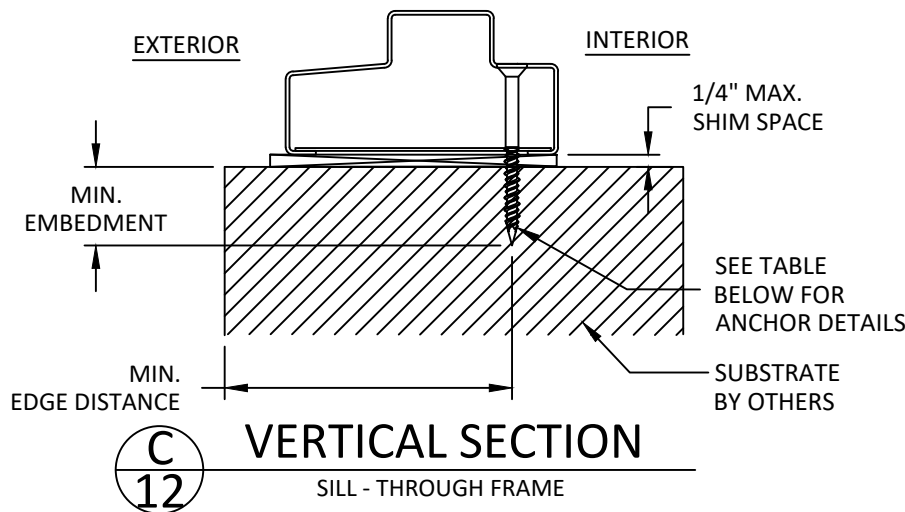
EXTERIOR INTERIOR
A
12 VERTICAL SECTION
HEAD - STRAP
NOTE: JAMB SIMILAR



B
12 VERTICAL SECTION
SILL - THROUGH FRAME



C
12 VERTICAL SECTION
SILL - THROUGH FRAME



C
12 VERTICAL SECTION
SILL - THROUGH FRAME

INSTALLATION NOTES:

- TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR THE STRAP AND ONE (1) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION FOR THROUGH FRAME, UNLESS OTHERWISE STATED ON SHEETS 5, 6 & 7.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- 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
STRAP	WOOD: MIN. SG = 0.55	3/8" LAG SCREW	1.50"	1.00"	1.00"
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	3/8" 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" DEWALT ULTRAICON	1.25"	2.50"	2.00"
THROUGH FRAME	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	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"	-
	CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.00"	3.00"	-
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	3.00"	-



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DOORS (HVHZ) (IMPACT)

ANCHOR DETAILS
& INSTALLATION NOTES

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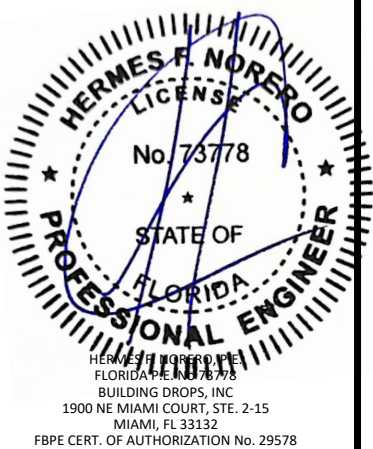
BUILDING DROPS, INC.

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MIAMI, FL 33132
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FAX: (954)744-4738
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FL47429

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HJ

CHK. BY:
HFN

SCALE: **NTS**

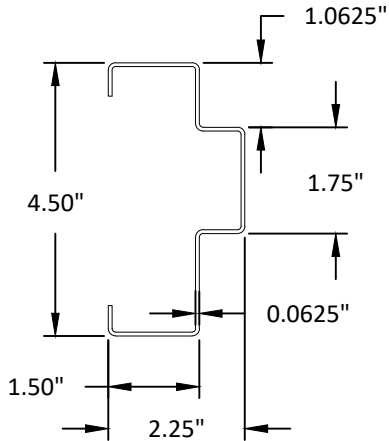
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SHEET: **12** REV. **A**

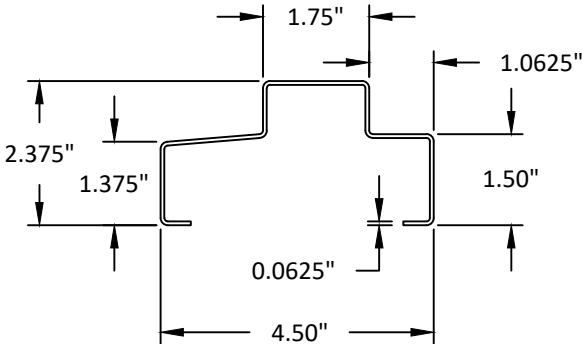
OF 15

BILL OF MATERIALS			
ITEM	PART NO.	DESCRIPTION	MATERIAL
1		FRAME	STEEL
2		SIDELITE SILL	STEEL
3		STRAP	STEEL
4		OS SIDELITE SASH	STEEL
5		OS SIDELITE GLAZING BEAD	STEEL
6		IS SIDELITE SASH	STEEL
7		IS SIDELITE GLAZING BEAD	STEEL
8		DOOR HINGE/HEAD SASH	STEEL
9		DOOR HINGE/HEAD GLAZING BEAD	STEEL
10		DOOR SILL SASH	STEEL
11		DOOR SILL GLAZING BEAD	STEEL
12		DOOR ASTRAGAL SASH	STEEL
13		DOOR ASTRAGAL GLAZING BEAD	STEEL
14		T-ASTRAGAL	STEEL
15		HINGE	STEEL
16		RAIN GUARD	STEEL
17		MULLION REINFORCEMENT	STEEL
18		SHEAR PLATE	STEEL
19		OS DOOR SILL	STEEL
20		IS DOOR SILL	STEEL
21		TDL	STEEL
22		TDL GLAZING BEAD	STEEL

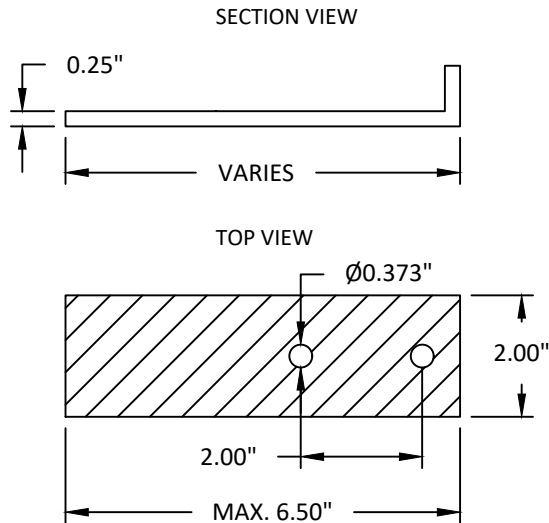
1 FRAME
STEEL



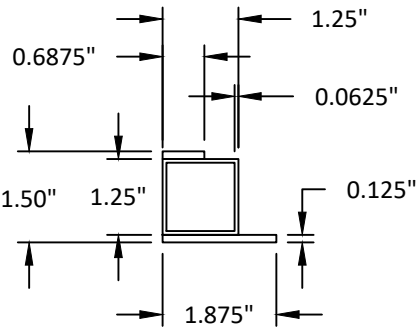
2 SIDELITE SILL
STEEL



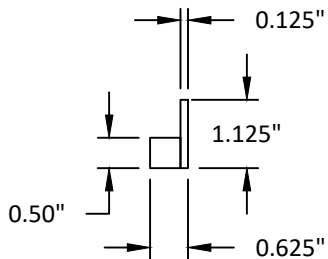
3 STRAP
STEEL



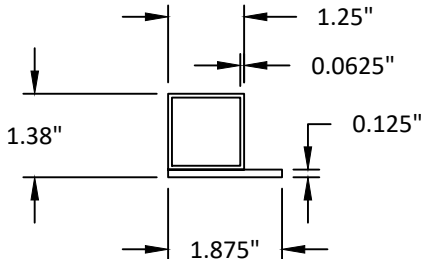
4 OS SIDELITE SASH
STEEL



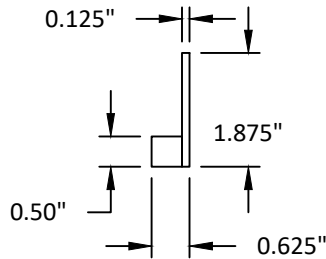
5 OS SIDELITE GLAZING BEAD
STEEL



6 IS SIDELITE SASH
STEEL



7 IS SIDELITE GLAZING BEAD
STEEL



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BILL OF MATERIALS & COMPONENTS

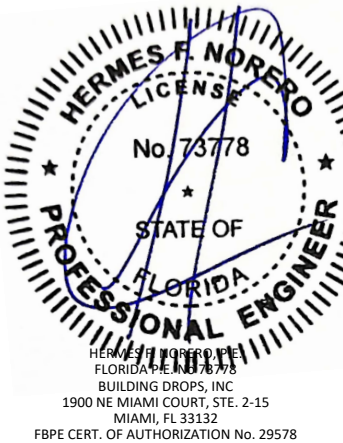
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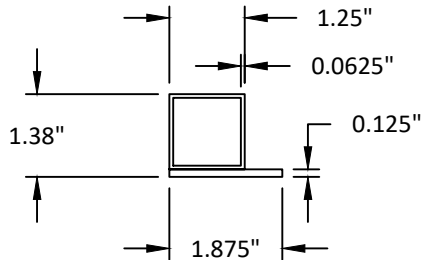
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DWG. #: CND003

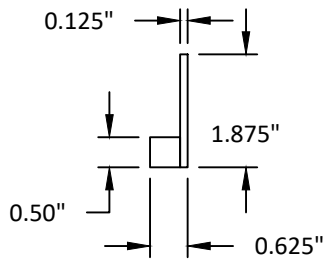
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REV. A

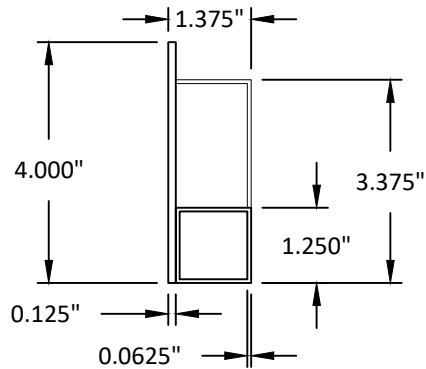
8 DOOR HINGE/HEAD SASH
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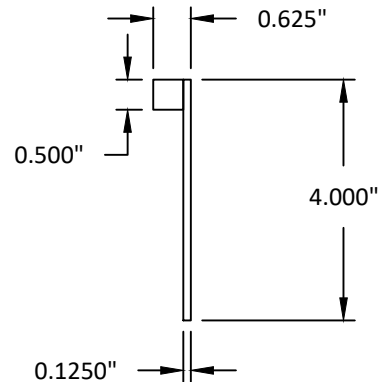
9 DOOR HINGE/HEAD GLAZING BEAD
STEEL



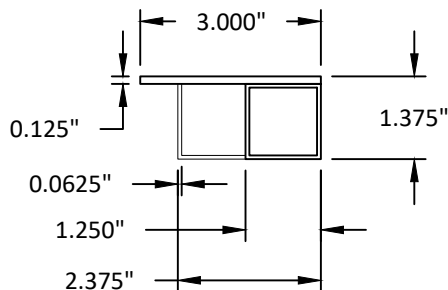
10 DOOR SILL SASH
STEEL



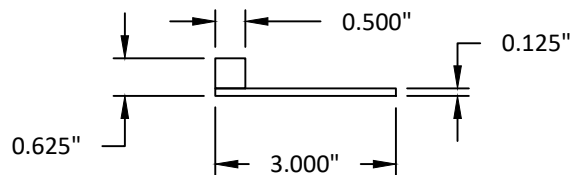
11 DOOR SILL GLAZING BEAD
STEEL



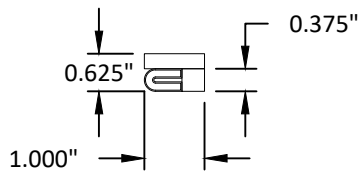
12 DOOR ASTRAGAL SASH
STEEL



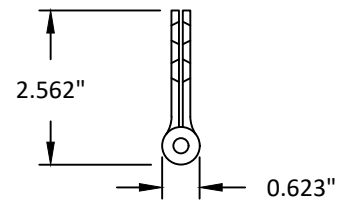
13 DOOR ASTRAGAL GLAZING BEAD
VARIES



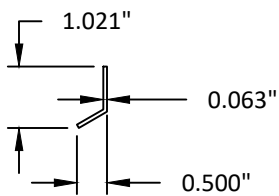
14 T-ASTRAGAL
STEEL



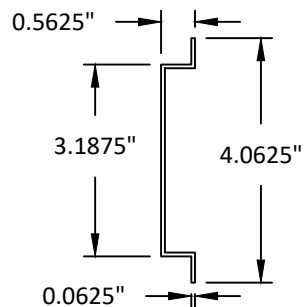
15 HINGE
STEEL



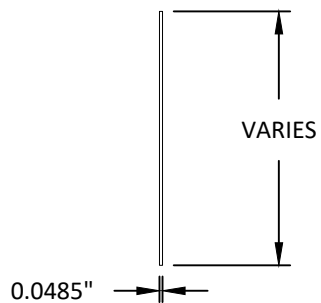
16 RAIN GUARD
STEEL



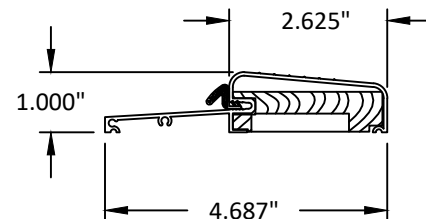
17 MULLION REINFORCEMENT
STEEL



18 SHEER PLATE
STEEL



19 OS DOOR SILL
VARIES



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COMPONENTS

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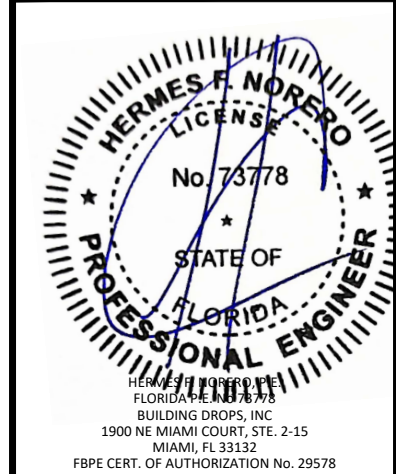
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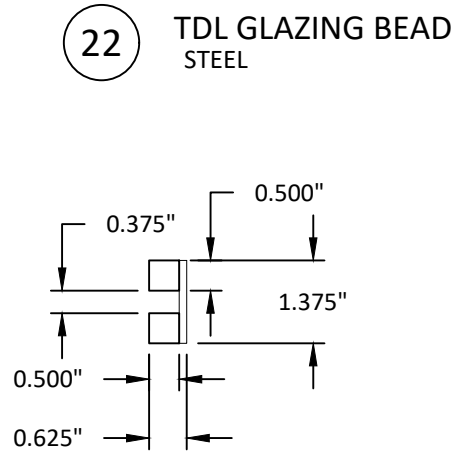
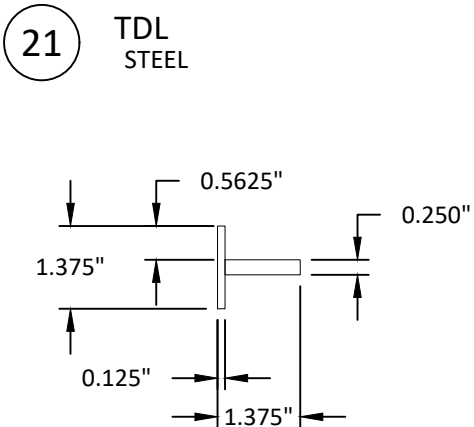
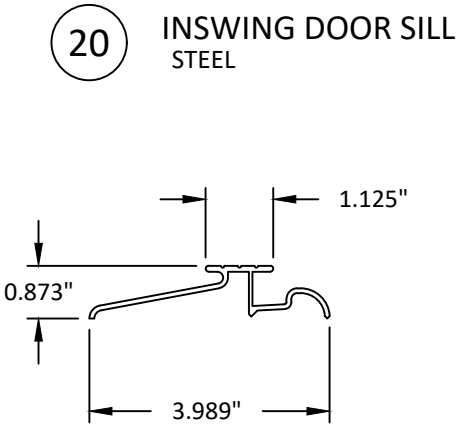


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OF 15	



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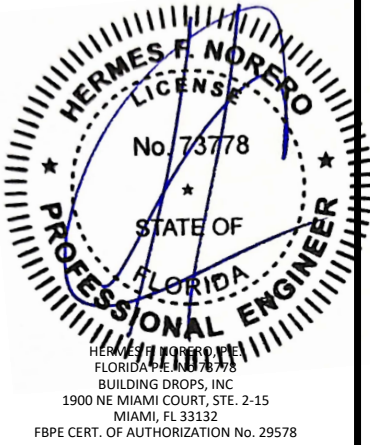
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