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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 1/4 INCH *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 1/2 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION THROUGH METAL FRAME USE *1/4"-20 SELF-DRILLING SCREW* OF SUFFICIENT LENGTH TO ACHIEVE *3 THREADS* MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
- FOR INSTALLATION THROUGH ALUMINUM MULLION USE *1/4"-20 SELF-DRILLING SCREW* OF SUFFICIENT LENGTH TO ACHIEVE *3 THREADS* MINIMUM PENETRATION BEYOND ALUMINUM FRAME 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.
 - 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 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.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

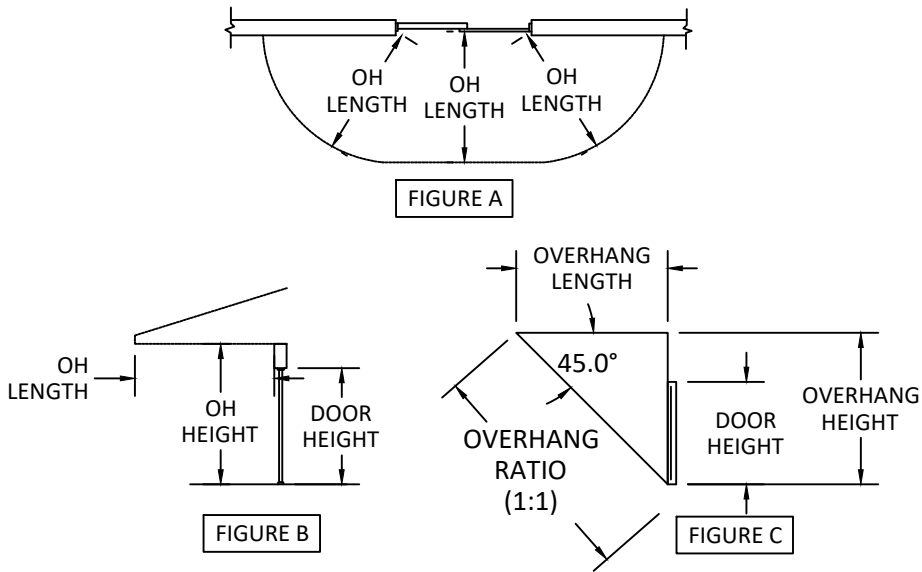
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E1886-13a
 - ASTM E1996-17
 - ASTM E330-14(21)
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING 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 IN WIND ZONES 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- DOOR FRAME MATERIAL: ALUMINUM 6063-T5
- 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 SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAIL.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION, ANCHOR LAYOUT, & ANCHOR TYPES
3	GLAZING DETAIL
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
6	BILL OF MATERIALS & COMPONENTS

DESIGN PRESSURE TABLE		
MAX. FRAME SIZE	MAX. DP	IMPACT RATING
41 13⁄16" X 83 3⁄16"	+96/-50 PSF	LMI & SMI

NOTE:
1. PRODUCT NOT RATED FOR WATER INFILTRATION. WHERE WATER INFILTRATION RESISTANCE IS REQUIRED INSTALL AT A LOCATION PROTECTED BY AN OVERHANG SUCH THAT:

- OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥1.0



ARCADIA, INC.
2301 EAST VERNON AVE.
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PH: (323)771-9819

TITLE: IPWS-512 HD SERIES
ENTRANCE DOOR
(WZ3) (IMPACT)
INSTALLATION &
GENERAL NOTES

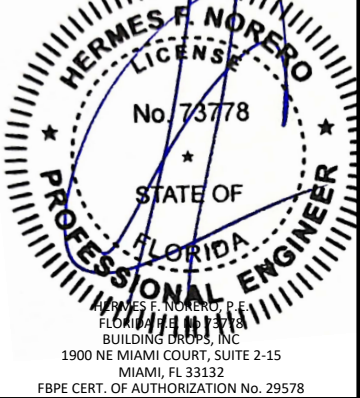
PREPARED BY:
BUILDING DROPS, INC.
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REMARKS	BY	DATE
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
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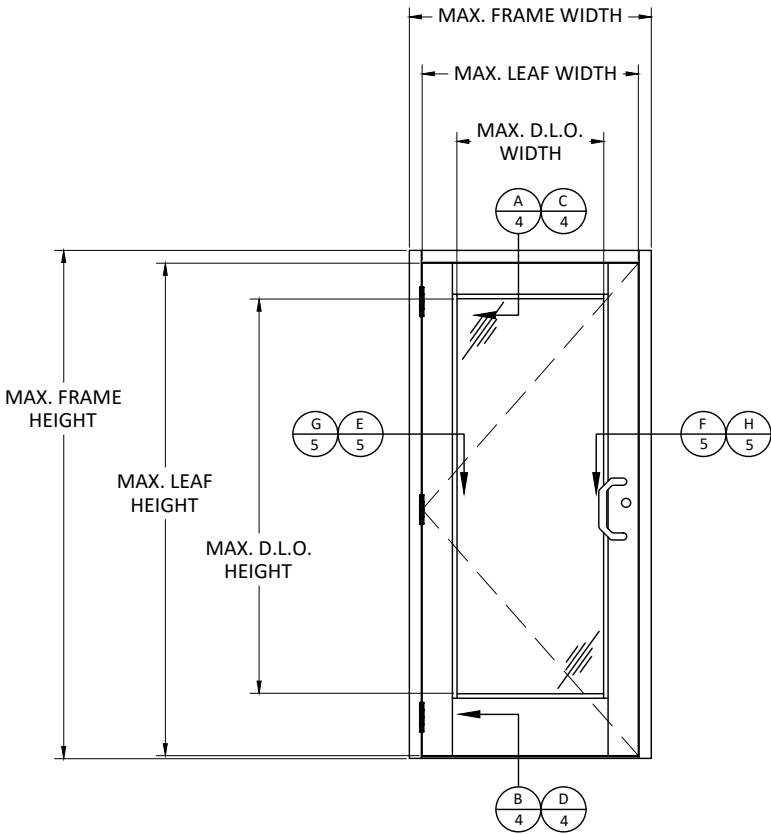


FL #:	FL40955	
DATE:	02.07.22	
DWG. BY:	R.P.	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	ARC005	
SHEET:	1	REV. A

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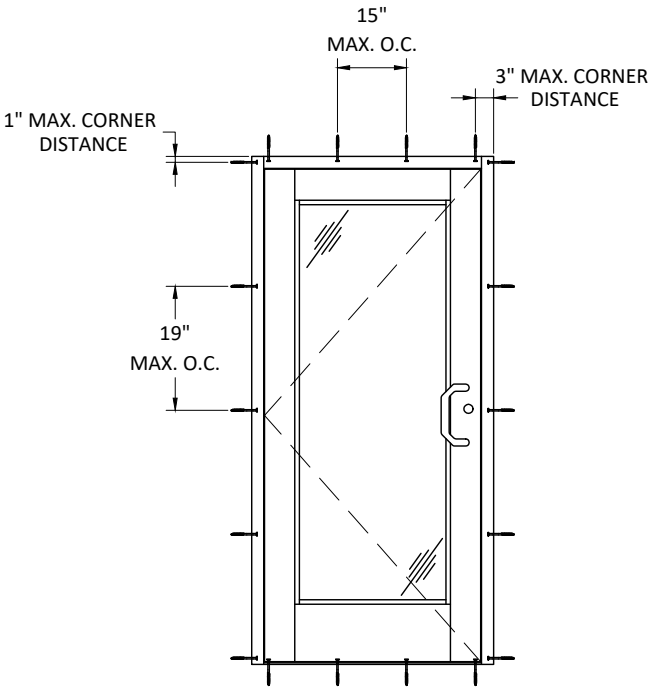
DESIGN PRESSURE (PSF)			
NOMINAL DIMS.		"X" CONFIGURATION	
FRAME WIDTH 'in.'	FRAME HEIGHT 'in.'	EXT. (+)	INT. (-)
28.0	66.0	96.0	50.0
34.0		96.0	50.0
40.0		96.0	50.0
46.0		77.0	43.6
48.0		70.1	41.8
28.0	72.0	96.0	50.0
34.0		96.0	50.0
40.0		96.0	50.0
46.0		79.6	43.6
28.0	78.0	96.0	50.0
34.0		96.0	50.0
40.0		96.0	50.0
43.0		88.7	46.7
28.0	84.0	96.0	50.0
34.0		96.0	50.0
40.0		96.0	50.0
28.0	90.0	96.0	50.0
34.0		96.0	50.0
37.0		96.0	50.0
28.0	96.0	96.0	50.0
34.0		96.0	50.0
35.0		96.0	50.0
28.0	102.0	96.0	50.0
33.0		96.0	50.0



ELEVATION

D.L.O. WIDTH = FRAME WIDTH - 15.8125"
D.L.O. HEIGHT = FRAME HEIGHT - 18.875"

LEAF WIDTH = FRAME WIDTH - 4.3125"
LEAF HEIGHT = FRAME HEIGHT - 2.5625"



ANCHOR LAYOUT

WS 512 HD SERIES DOOR ANCHOR TYPES				
ANCHOR TYPE	ANCHOR DISCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EDGE DISTANCE	MIN. EMBEDMENT
A	1/4" WOOD SCREW	WOOD MIN S.G. = 0.55	3/4"	1-1/2"
B	1/4" ITW TAPCON	CONCRETE MIN. 3000 PSI MASONRY CONFORMS TO ASTM C-90	2-1/2"	1-1/2"
C	1/4"-20 SELF DRILLING SCREW	STEEL MIN. YIELD STRENGTH 33 KSI, 18 GAUGE ALUMINUM MIN. 1/8" THICK 6063-T5	1/2"	3 THREADS PENETRATION



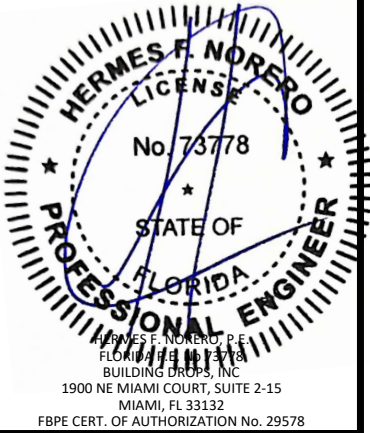
ARCADIA, INC.
2301 EAST VERNON AVE.
VERNON, CA 90058
PH: (323)771-9819

TITLE: IPWS-512 HD SERIES
ENTRANCE DOOR
(WZ3) (IMPACT)
ELEVATION, ANCHOR LAYOUT,
& ANCHOR TYPES

PREPARED BY:
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1900 NE MIAMI COURT, SUITE 2-15
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FL40955

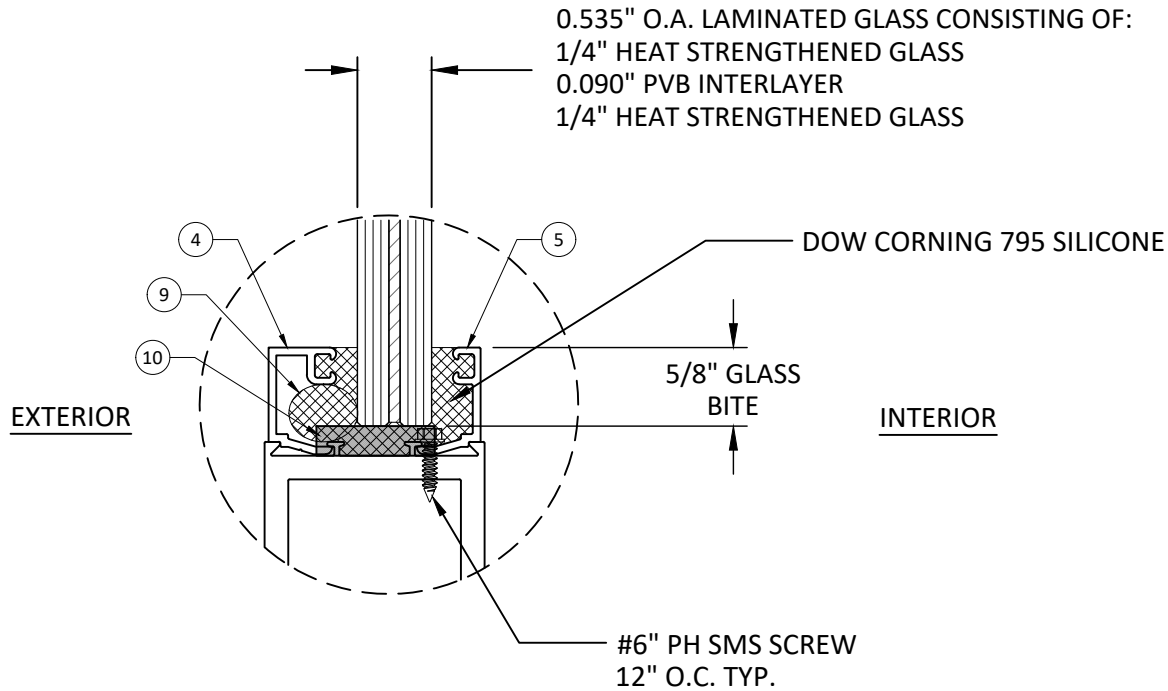
DATE: **02.07.22**

DWG. BY: **R.P.** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **ARC005**

SHEET: **2** REV. **A**



GLAZING DETAIL
WET GLAZED

- NOTES:
1. GLASS THICKNESS AND TYPE COMPLIES WITH ASTM E 1300 GLASS CHART REQUIREMENTS.
 2. ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE FBC.
 3. ALL LITES GREATER THAN 36" IN WIDTH SHALL UTILIZE SETTING BLOCKS IN ACCORDANCE WITH THE FBC. CH. 24
 4. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE



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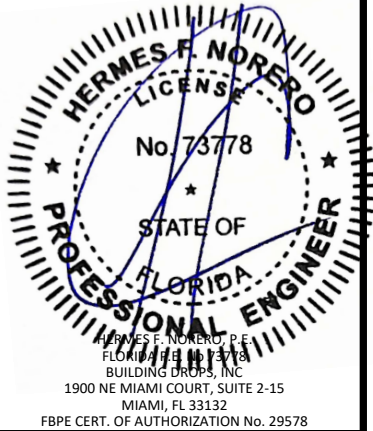
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ENTRANCE DOOR
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GLAZING DETAIL

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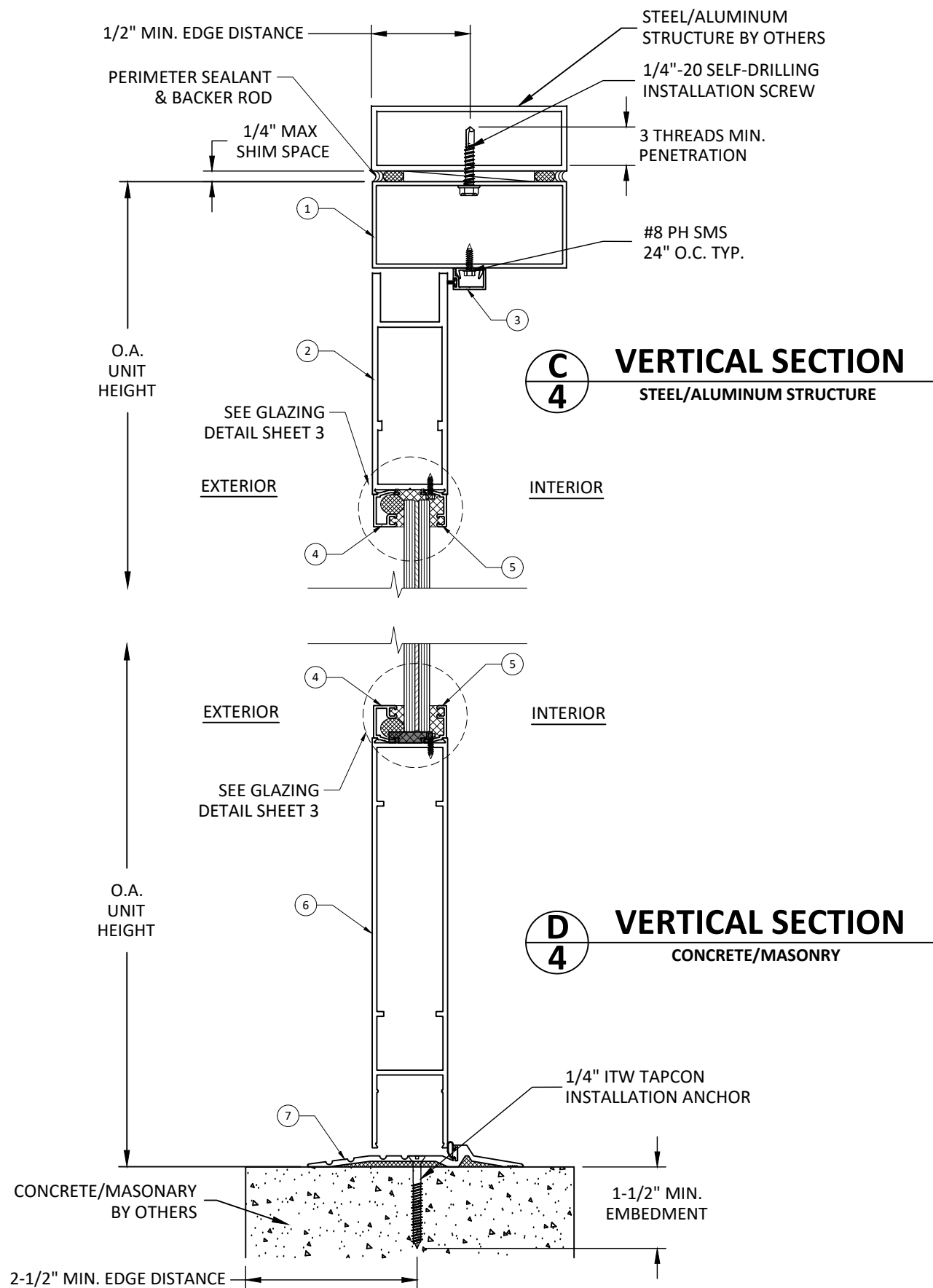
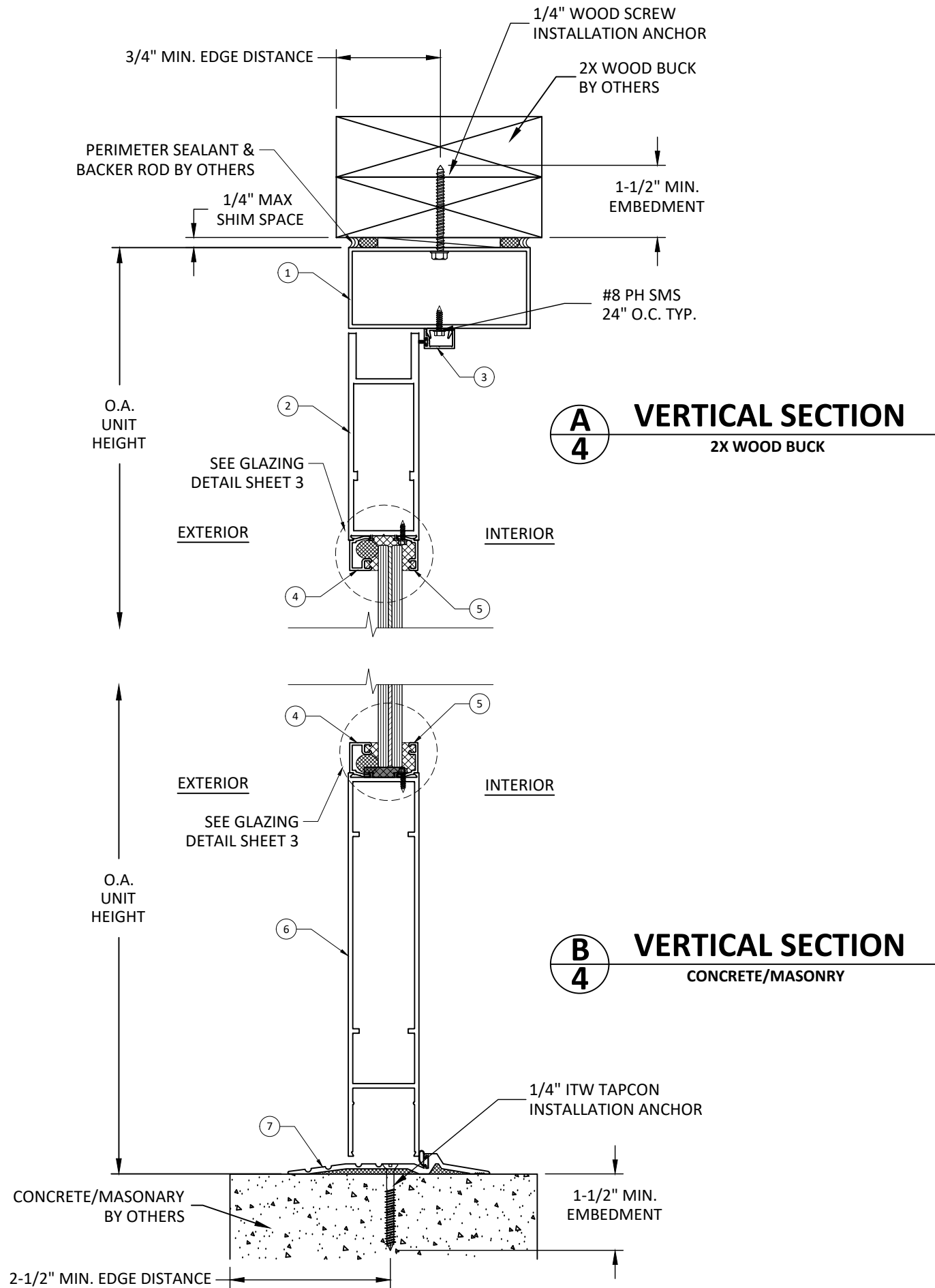
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SHEET:	3
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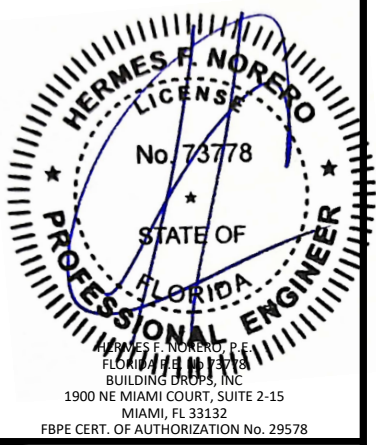
ARCADIA, INC.
2301 EAST VERNON AVE.
VERNON, CA 90058
PH: (323) 771-9819

TITLE: IPWS-512 HD SERIES
ENTRANCE DOOR
(WZ3) (IMPACT)
VERTICAL SECTIONS

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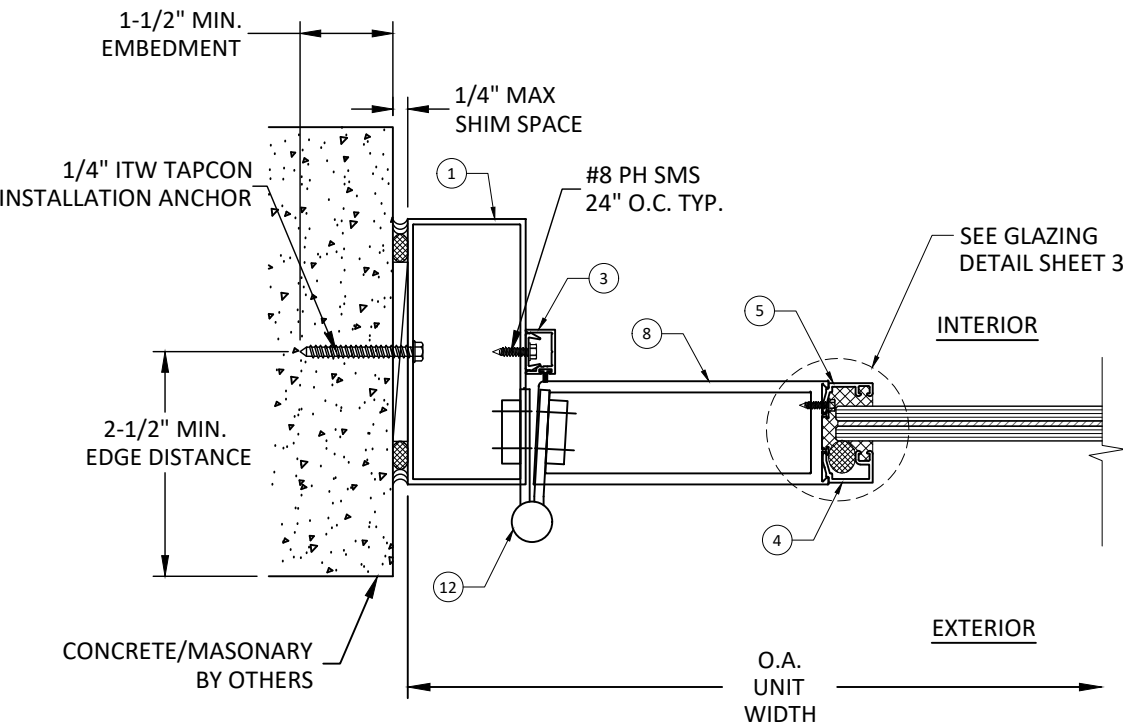
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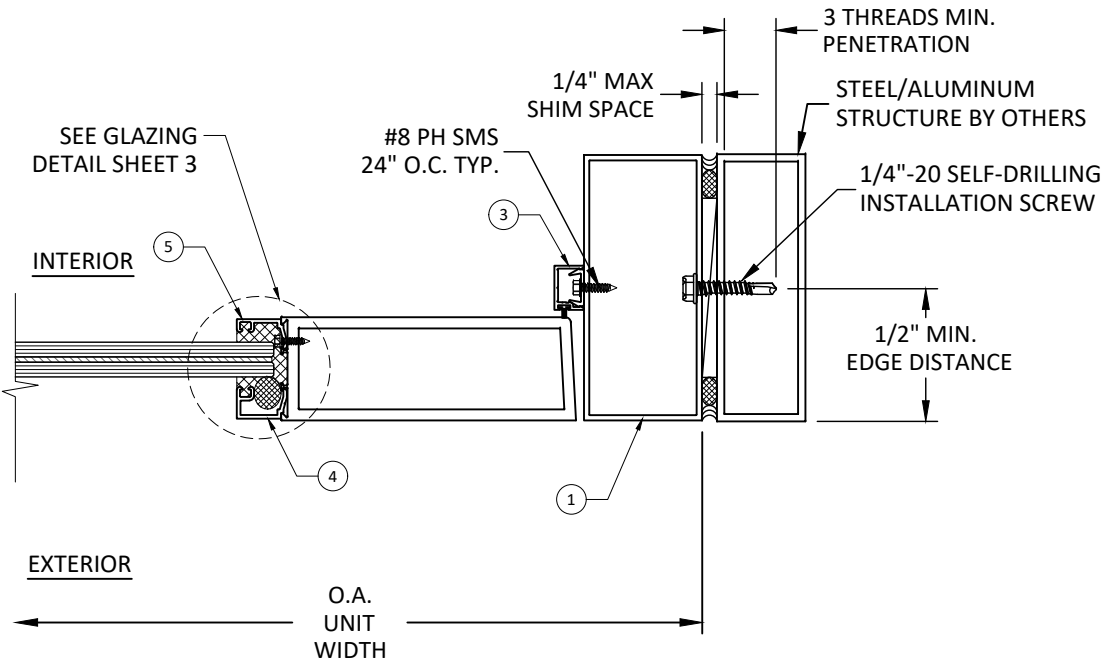
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SHEET:	4
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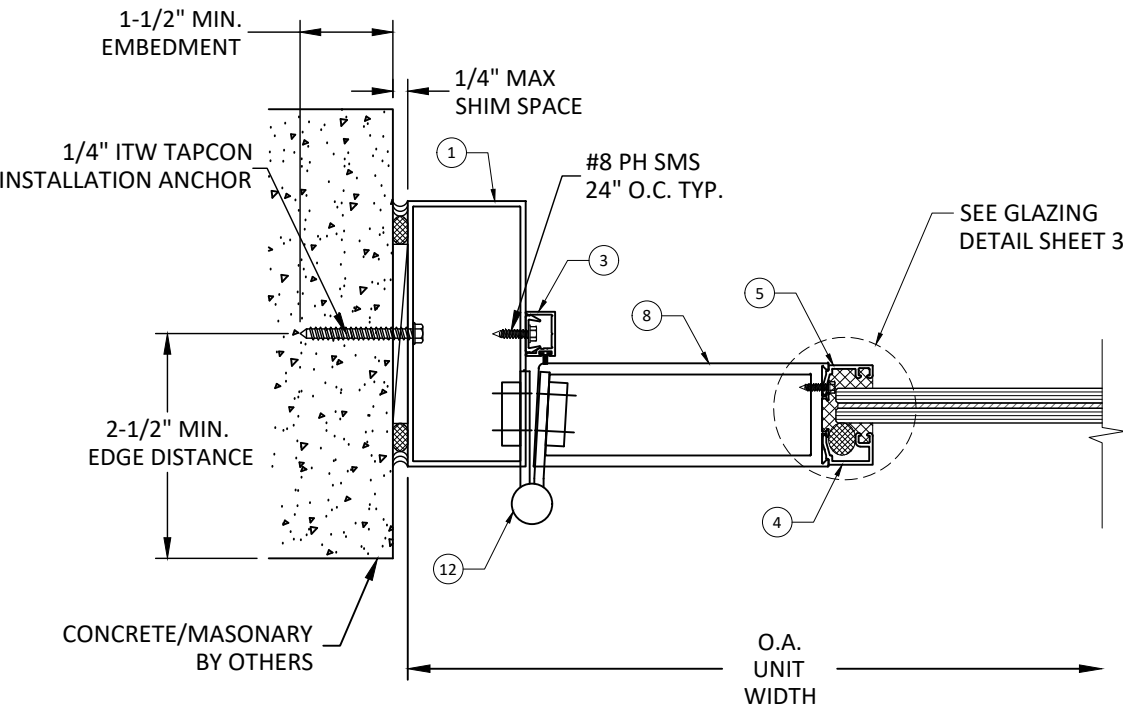
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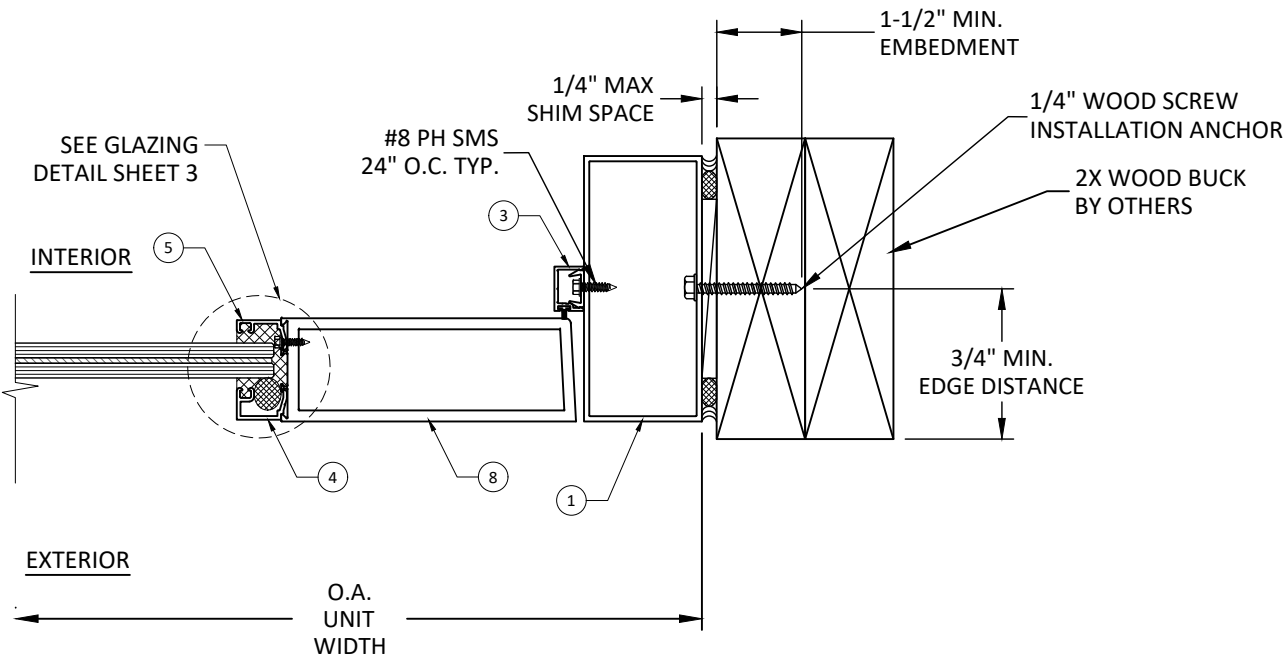
E
5 **HORIZONTAL SECTION**
HINGE JAMB
CONCRETE/MASONRY



F
5 **HORIZONTAL SECTION**
LOCK JAMB
STEEL/ALUMINUM STRUCTURE



G
5 **HORIZONTAL SECTION**
HINGE JAMB
CONCRETE/MASONRY



H
5 **HORIZONTAL SECTION**
LOCK JAMB
2X WOOD BUCK



ARCADIA, INC.
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TITLE: IPWS-512 HD SERIES
ENTRANCE DOOR
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

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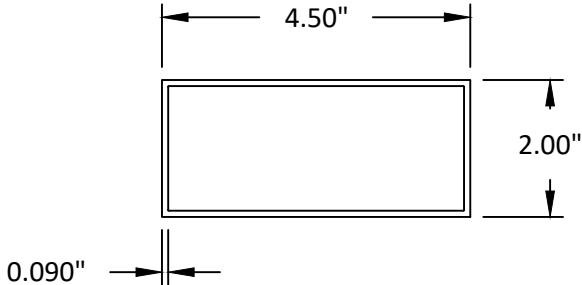


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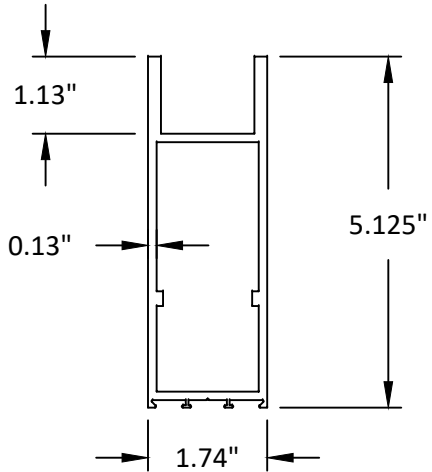
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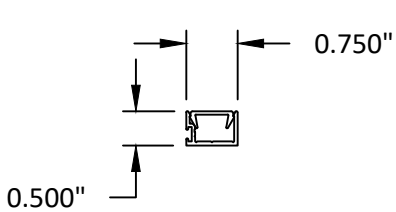
WS 512 HD ENTRANCE DOOR BILL OF MATERIALS				
ITEM #	PART #	DESCRIPTION	MATERIAL	MANUFACTURER
1	245	HEAD/JAMB	6063-T5	ARCADIA
2	31-430H	TOP RAIL	6063-T5	ARCADIA
3	S-155	CAP	6063-T5	ARCADIA
4	DS-004	GLAZING BEAD	6063-T6	ARCADIA
5	DS-001	GLAZING BEAD	6063-T6	ARCADIA
6	DRB-950	BOTTOM RAIL	6063-T5	ARCADIA
7	TH-500	THRESHOLD	6063-T5	ARCADIA
8	DSO-401H	STILE	6063-T5	ARCADIA
9		BACKER ROD		
10		SETTING BLOCK		
11	1850S	DEAD BOLT	STAINLESS STEEL	
12	NRP-630	BUTT HINGES	STAINLESS STEEL	



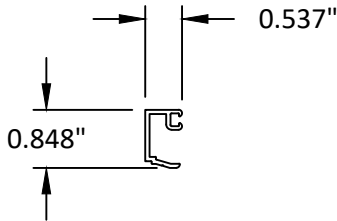
1 HEAD & JAMB



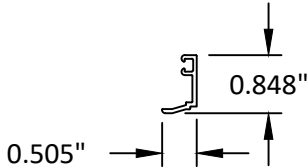
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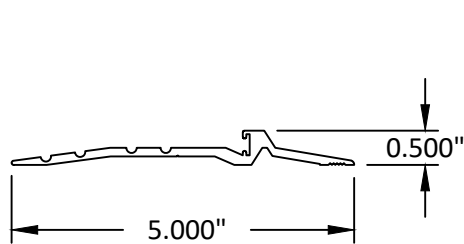
3 CAP



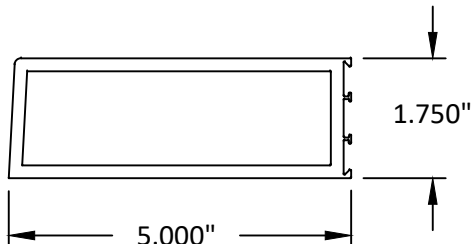
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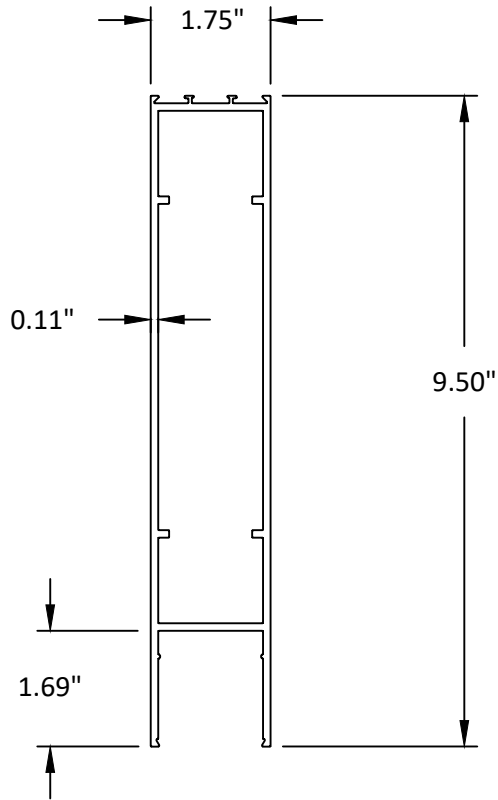
5 GLAZING BEAD



7 TRESHOLD



8 STILE



6 BOTTOM RAIL



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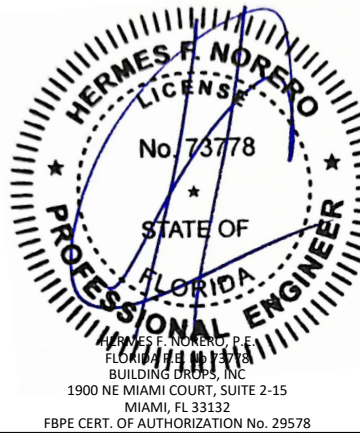
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