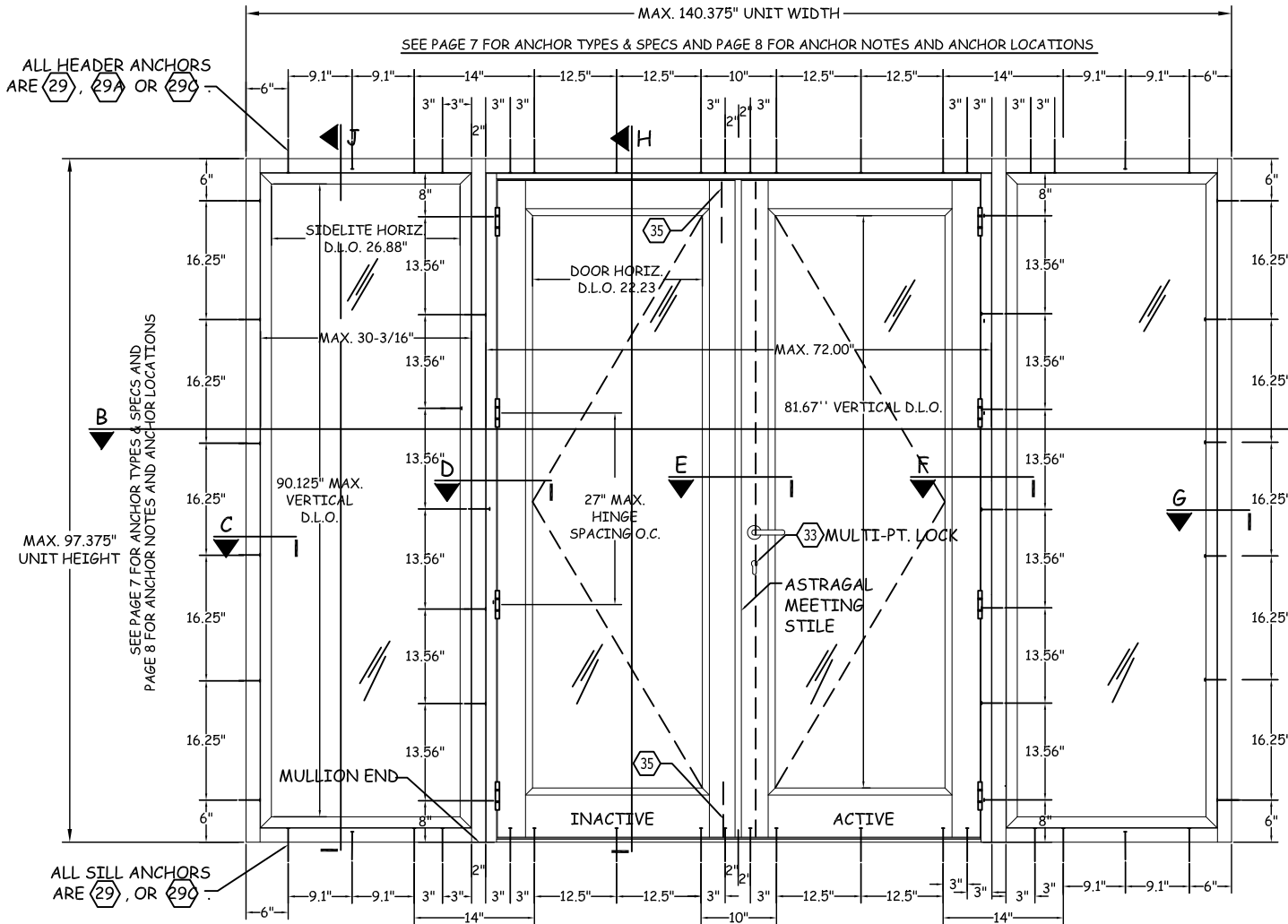
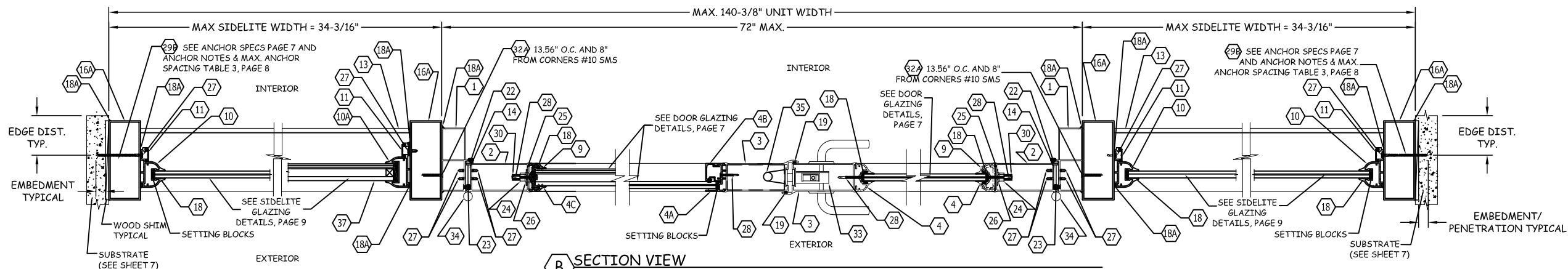


# SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR

DESIGN PRESSURE RATING  
ALL CONFIGURATIONS:  
**+75 / -75 PSF**  
LARGE MISSILE IMPACT RATED



**A** EXTERIOR ELEVATION - SERIES CONTINENTAL DOOR WITH SIDELITES - MULTI-POINT LOCKING SYSTEM  
N.T.S. SEE PAGE 7 FOR OTHER SIZES AND PAGE 8 FOR QUALIFIED CONFIGURATIONS



**B** SECTION VIEW  
N.T.S. (SEE PAGE 7 FOR OTHER SIZES & ANCHOR SPECIFICATIONS AND SEE PAGE 8 FOR OTHER LAYOUT OPTIONS & MAX. ANCHOR SPACING TABLE 3)

BILL OF MATERIALS				
ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/SUPPLIER/NOTES	
PARTS & EXTRUSIONS	1	77495	DOOR FRAME JAMBS	FUNDICIONES INDUSTRIALES S.A /6063-T5
	2	77534	DOOR STILE	FUNDICIONES INDUSTRIALES S.A /6063-T5
	3	77525	DOOR STILE WITH ASTRAGAL	FUNDICIONES INDUSTRIALES S.A /6063-T5
	4	13038	7/16" GLASS ADAPTER	FUNDICIONES INDUSTRIALES S.A /6063-T5
	4A	76840	7/16" ALTERNATE GLASS ADAPTER	FUNDICIONES INDUSTRIALES S.A /6063-T5
	4B	76841	ALTERNATE GLASS ADAPTER GLAZING BEAD	FUNDICIONES INDUSTRIALES S.A /6063-T5
	4C	13039	1-1/16" GLASS ADAPTER	FUNDICIONES INDUSTRIALES S.A /6063-T5
	5	77510	DOOR HEAD FRAME	FUNDICIONES INDUSTRIALES S.A /6063-T5
	6	77554	TOP RAIL	FUNDICIONES INDUSTRIALES S.A /6063-T5
	7	76702	6" MIN BOTTOM RAIL	FUNDICIONES INDUSTRIALES S.A /6063-T5
	8	80511	THRESHOLD CONTINENTAL DOOR	FUNDICIONES INDUSTRIALES S.A /6063-T5
	9	11081	CORNER LOCK	FUNDICIONES INDUSTRIALES S.A /6063-T5
	10	76835	7/16" PERIMETER P/W	FUNDICIONES INDUSTRIALES S.A /6063-T5
	10A	76849	1-1/16" PERIMETER P/W	FUNDICIONES INDUSTRIALES S.A /6063-T5
	11	76830	SNAP FOR PICTURE WINDOW	FUNDICIONES INDUSTRIALES S.A /6063-T5
	12	80525	RECT SNAP COVER FOR THRESHOLD	FUNDICIONES INDUSTRIALES S.A /6063-T5
13	96534	ANGLE 1.5"x.6.25"x.125"	FUNDICIONES INDUSTRIALES S.A /6063-T5	
15	13020	ADAPTER DOUBLE FELPA	FUNDICIONES INDUSTRIALES S.A /6063-T5	
16	57628	DEAD BOLT CHANNEL L=3.625"	GLOBAL HOLDEX LTD /6063-T5	
16A	57525	2"x5" x 0.090" FRAME MULLION	FUNDICIONES INDUSTRIALES S.A /6063-T5	
GLASS	17		IMPACT GLASS 7/16"	TECHNOGLASS
			3/16" ANN - 0.090" SAFLEX CP - SAFLEX OR SAFLEX HP COMPOSITE GLASS INTERLAYERS WITH PET CORE BY EASTMAN CHEMICAL CO. - 3/16" ANN	
	17A		IMPACT GLASS 1-1/16"	TECHNOGLASS
		1-1/16" O.A.: 3/16" TEMP. EXT - AIR SPACE - 3/16" ANN - 0.090" SAFLEX CP - SAFLEX OR SAFLEX HP COMPOSITE GLASS INTERLAYERS WITH PET CORE BY EASTMAN CHEMICAL CO. - 3/16" ANN		
17B		1-1/16" O.A.: 1/4" TEMP. EXT - AIR SPACE - 3/16" ANN - 0.090" SAFLEX CP - SAFLEX HP COMPOSITE GLASS INTERLAYERS WITH PET CORE BY EASTMAN CHEMICAL CO. - 3/16" ANN		
SEALS & SEALANTS	18	53580	DOW 995 BLACK STRUCTURAL SILICONE	DOW CORNING
	18A	76648	SILICONE CLEAR	PACIFIC GLOBAL PACKAGING
	19	96823	WEATHER STRIP	ULTRAFAB
	20	96824	WEATHER STRIP	ULTRAFAB
	21	96825	WEATHER STRIP	ULTRAFAB
	22	96980	PERIMETER FRAME VINYL	MSW LLC
	23	32010	B/RUBBER/FOAM-W/WEATHER STRIP	MSW LLC
	38	96936	GOMA FP-448 BLACK	3M
	39	96690	3M VHB TAPE	3M
FASTENERS	24	95612	3/8"-16-SS HEX NUT	LA CASA DE LOS TORNILLOS
	25	95492	FLAT WASHER 3/8"	LA CASA DE LOS TORNILLOS
	26	95493	PRESSURE WASHER 3/8" SS	LA CASA DE LOS TORNILLOS
	27	95691	#10-24 x 5/8" PH F/H SS SELF/D	LA CASA DE LOS TORNILLOS
	28	95692	#10-24 x 1" FH /PH /SS SELF/D	LA CASA DE LOS TORNILLOS
	29		#14 WOOD SCREW PHI F/H SS	W/ DISSIMILAR METALS CORROSION COATING
	29A		1/4" ELCO ULTRACON IN GROUT FILLED CMU PHI P/H F/H	ELCO CONSTRUCTION PRODUCTS
	29B		1/4" ELCO ULTRACON IN CMU PHI P/H F/H	ELCO CONSTRUCTION PRODUCTS
	29C		1/4" ELCO ULTRACON, PHI, F/H, P/H	ELCO CONSTRUCTION PRODUCTS
	30	76657	3/8"x 72" SS-304 ROD	LA CASA DE LOS TORNILLOS
31	95597	#10 SCREW x 1-1/2" PHI PH S/S T-A	LA CASA DE LOS TORNILLOS	
32	95660	#12 SCREW x 3/4" PHI PH S/S T-A	LA CASA DE LOS TORNILLOS	
32A		#10 GR. 5 SHEET METAL SCREW (SMS)	ITW BUILDEX	
HARDWARE	33	34200	MULTIPOINT LOCK 2230 (TH102)	FRANCISCO R. FARRAS, INC. / ATZ
	34	76565	4" S/S HINGES	L.D.G. HARDWARE MANUFACTURER
	35	76523	FLUSHBOLT 1/8 BACKSET SATIN NIQL	SONFAST CARIBE, INC.
	36	76663	THREADED ROD 5/16" X 72" S/S	CENTURY FASTENERS
	37	76665	TERMINAL S/S 12x46mm	SALS HARDWARE
	38	96456	CYLINDRICAL LOCK & DEADBOLT (COMBO LOCK)	GARRIDO BROS & CORP

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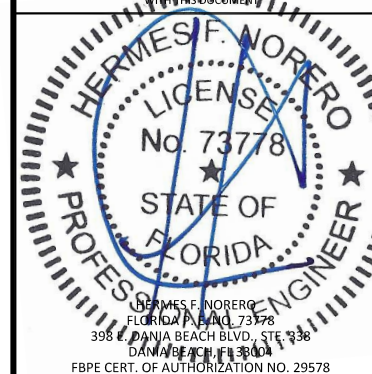
TITLE: SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR

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BARCELONETA, PR 00617  
WWW.AIRMASTER.COM  
PH: (787)846-2110  
FAX: (787)623-0085



REMARKS	BY	DATE
NEW LOCK ADDITION	SM	7/11/21

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 THESE DETAILS.



**FL20477**

DATE: 10/26/20

DWG. BY: SM CHK. BY: HN

SCALE: NTS

DWG. #: AIR018

SHEET: 1 OF 8

**1**

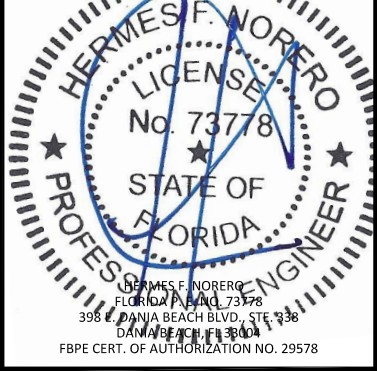
TITLE: **SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR**

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 windows and doors

REMARKS	BY	DATE
NEW LOCK ADDITION	SM	7/11/21

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**FL20477**

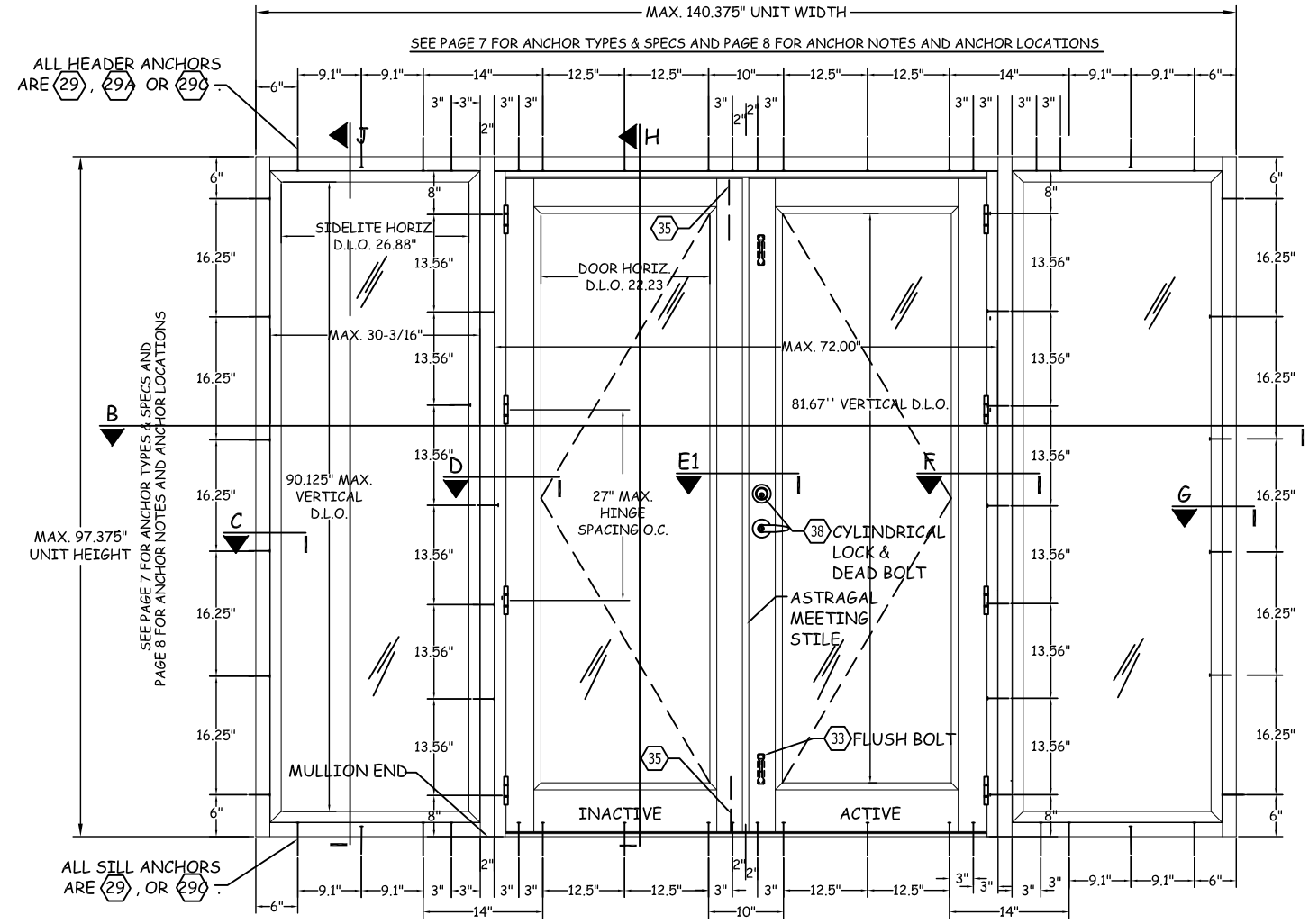
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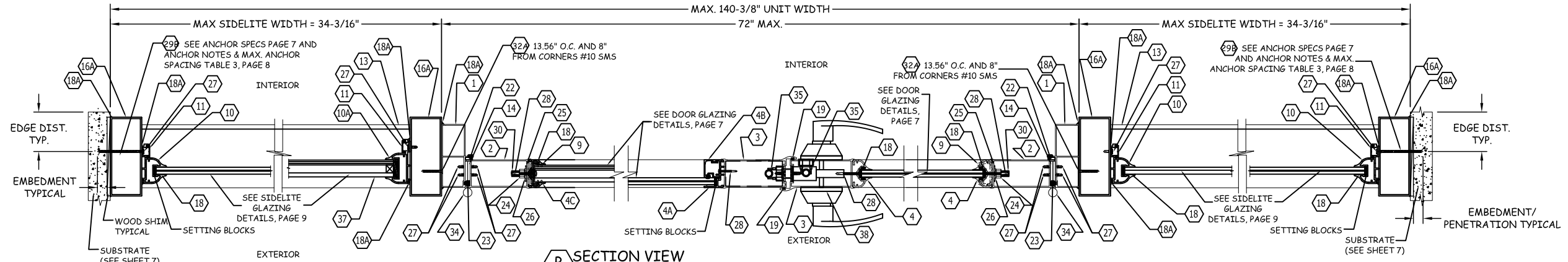
SCALE: NTS

DWG. #: AIR018

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**A** EXTERIOR ELEVATION - SERIES CONTINENTAL DOOR WITH SIDELITES - CYLINDRICAL LOCK & DEADBOLT  
 N.T.S. SEE PAGE 7 FOR OTHER SIZES AND PAGE 8 FOR QUALIFIED CONFIGURATIONS



**B** SECTION VIEW  
 N.T.S. (SEE PAGE 7 FOR OTHER SIZES & ANCHOR SPECIFICATIONS AND SEE PAGE 8 FOR OTHER LAYOUT OPTIONS & MAX. ANCHOR SPACING TABLE 3)

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TITLE: SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR

COMPONENTS AND GENERAL NOTES

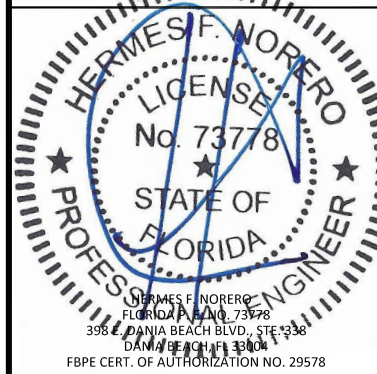
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REMARKS	BY	DATE
NEW LOCK ADDITION	SM	7/11/21

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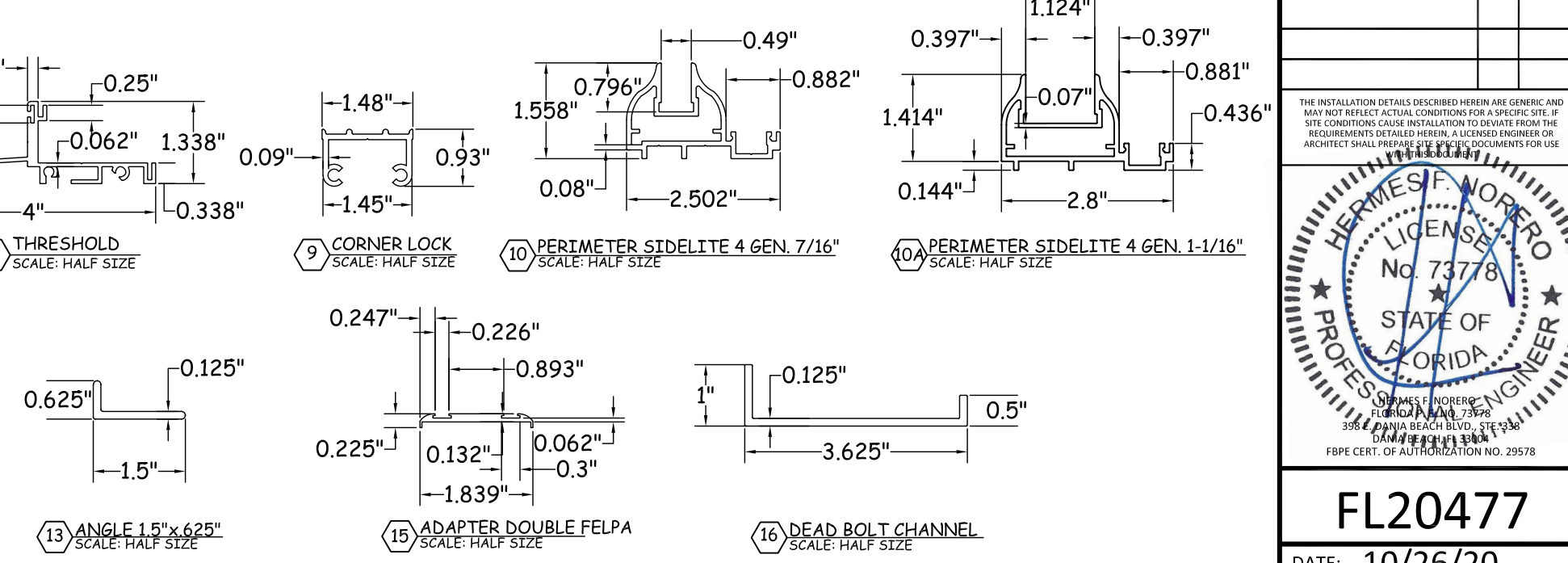
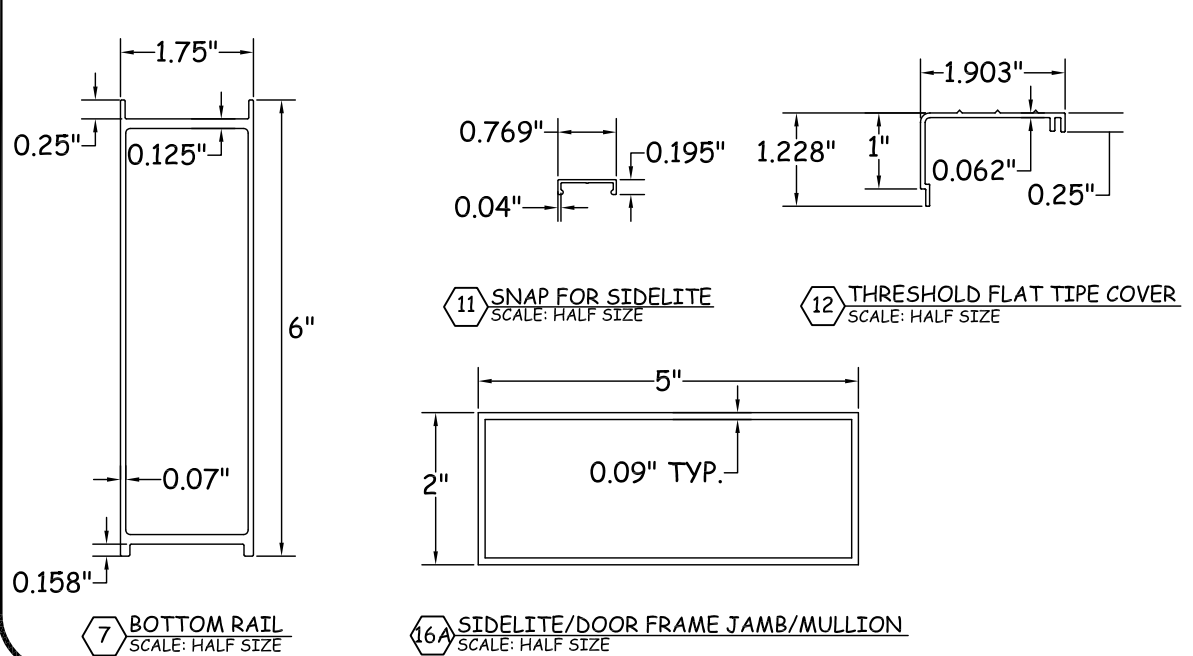
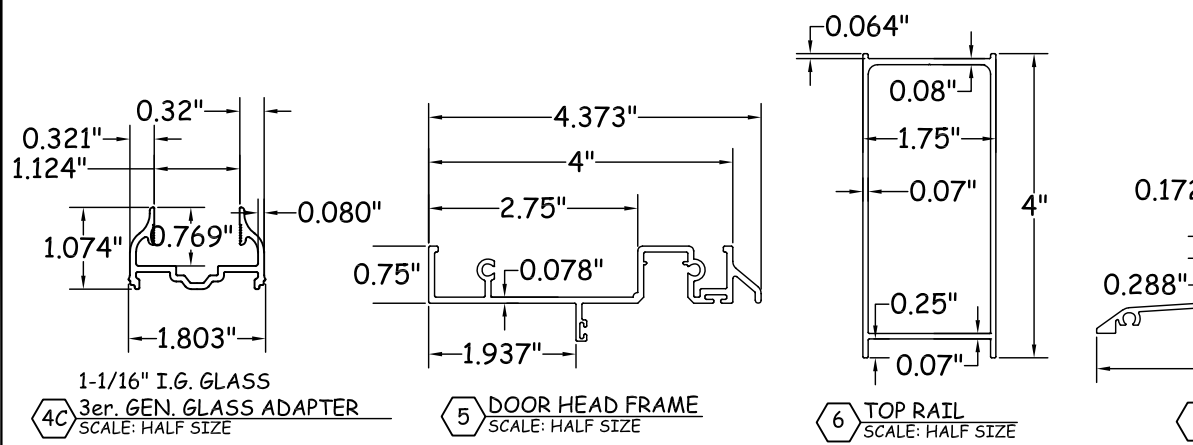
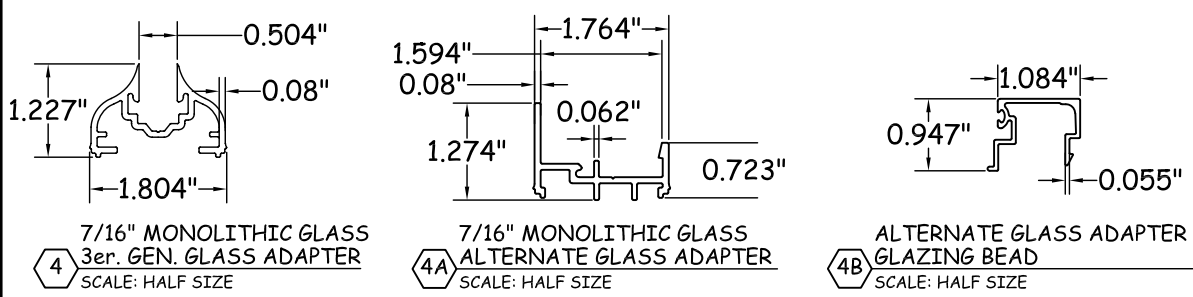
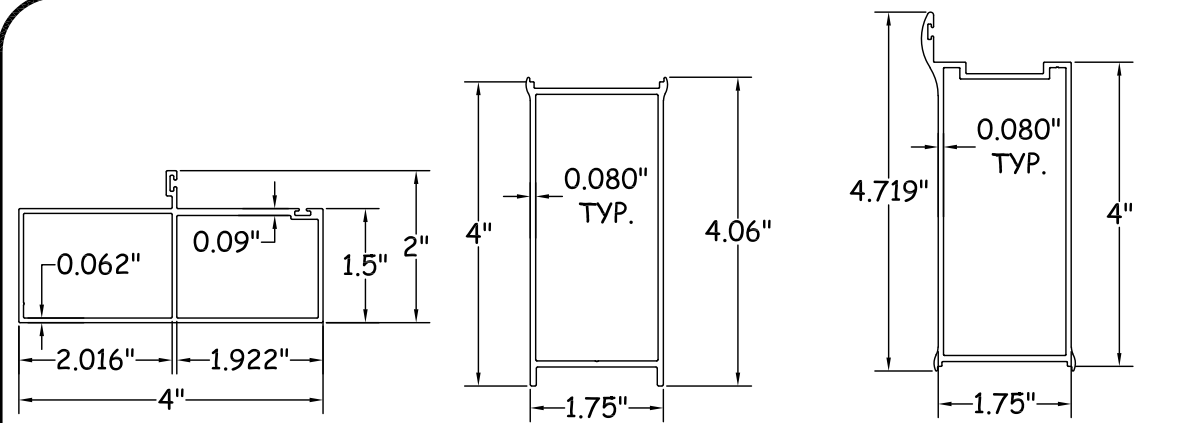
DWG. #: AIR018

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**3**

GENERAL NOTES:

- THIS CONTINENTAL SYSTEM HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC), INCLUDING THE HVHZ, UNDER THE SPECIFIC CONDITIONS SHOWN ON THIS DRAWING. THIS CONTINENTAL DOOR SYSTEM HAS BEEN TESTED PER TAS 201, TAS 202 & TAS 203. THE CONTINENTAL DOOR AND SIDELITE ARE LARGE MISSILE IMPACT RESISTANT.
- 2x WOOD BUCKS SHALL BE INSTALLED AND PROPERLY ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF FBC.
- 1x WOOD BUCKS SHALL BE INSTALLED AND PROPERLY ANCHORED SUCH THAT THEY ARE STATIC DURING INSTALLATION & ACT AS SHEAR BLOCKS DURING LOADING TRANSFER FOR FASTENERS THROUGH THE DOOR FRAME TO THE CONCRETE.  
ANCHOR CONDITIONS NOT DESCRIBED IN THIS DRAWING ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7, WIND LOADS MAY BE PERMITTED TO BE MULTIPLIED BY 0.6 FOR CONVERSION FROM LRFD TO ASD LOADS.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. A WIND LOAD DURATION FACTOR OF 1.6 WAS USED FOR WOOD SCREW ANALYSIS. IN THE PREPARATION OF THESE DOCUMENTS.
- THESE PRODUCT EVALUATION DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.
- THESE PRODUCT EVALUATION DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THE EXISTING STRUCTURE IS CAPABLE OF SUPPORTING THE LOADS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:  
A) REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.  
B) REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL SECTION. WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
- WHERE THE CONTRACTOR OR THE BUILDING OFFICIAL REQUIRES DOCUMENTS FOR A SITE SPECIFIC APPLICATION, THESE DOCUMENTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT FOR SAID APPLICATION.
- ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED.
- SEE SHEET 7 FOR DOOR GLAZING DETAILS AND PAGE 9 FOR SIDELITE GLAZING DETAILS. EITHER MONOLITHIC LAMINATED GLASS OR INSULATING LAMINATED GLASS MAY BE USED AT THE DESIGN PRESSURES GIVEN ON PAGE 7.
- SEE DOOR WITH & WITHOUT SIDELITE SIZE VS DESIGN LOADS & ANCHOR SCHEDULE  
A. POSITIVE LOAD IS 75 PSF FOR ALL SIZES AND IS BASED ON WATER TEST PRESSURE AND BOTH +&- Ve LOAD CONFORMS TO LAMINATED GLASS CHART FIGS.A1.30 & 31 IN ASTM E1300.  
B. NEGATIVE LOAD IS 75 PSF (SEE TABLES 1 & 2 ON PAGE 7 OF 8).
- THIS PRODUCT HAS BEEN SUCCESSFULLY TESTED BY BLACKWATER TESTING FOR FLORIDA BUILDING CODE COMPLIANCE.  
A. BLACKWATER TESTING INC. REPORT NO. BT-AM-12-005 WITH BLACKWATER, TESTING INC. ADDENDUM LETTER OF MAY 24, 2013 REVISING THE PERMANENT SET VALUES AND ADDENDUM LETTER OF JULY 3, 2013 REVISING SIDELITE JAMB TESTED SPACING  
B. BLACKWATER TESTING INC. REPORT NO. BT-AM-14-001(A) DATED 9/19/14.  
C. BLACKWATER TESTING INC. REPORT NO. BT-AM-15-002A DATED 12/23/15. (NOT TESTED FOR WATER RESISTANCE)  
D. INTERTEK REPORT NO. L6771.01-450-18 R0 06/16/21. (TESTED FOR WATER RESISTANCE)
- MATERIALS, INCLUDING, BUT NOT LIMITED TO FASTENERS OR SCREWS THAT COME IN CONTACT WITH DISSIMILAR METALS SHALL MEET THE REQUIREMENTS OF FBC.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE P.T. & COMPATIBLE WITH ALUMINUM.
- FASTENERS & SCREWS MUST BE COMPATIBLE WITH CHEMICALS USED FOR PRESSURE TREATMENT OF WOOD.
- COMPONENTS (1) THROUGH (16) ARE 6063-T5 EXTRUDED ALUMINUM ALLOY, U.O.N.
- ADDITIONAL PROTECTION FROM WINDBORNE DEBRIS (SHUTTERS) IS NOT REQUIRED ON OPENINGS WHERE THESE PRODUCTS ARE USED.



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TITLE: SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR

HORIZONTAL SECTIONS

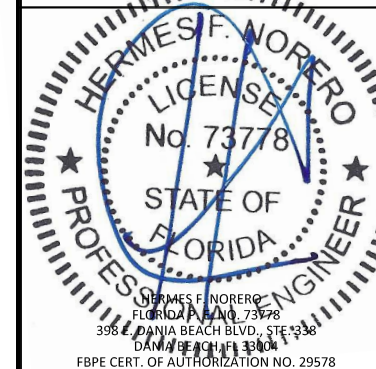
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WWW.AIRMASTERPR.COM  
PH: (787)846-2110  
FAX: (787)623-0085

**AIR MASTER**  
windows and doors



REMARKS	BY	DATE
NEW LOCK ADDITION	SM	7/11/21

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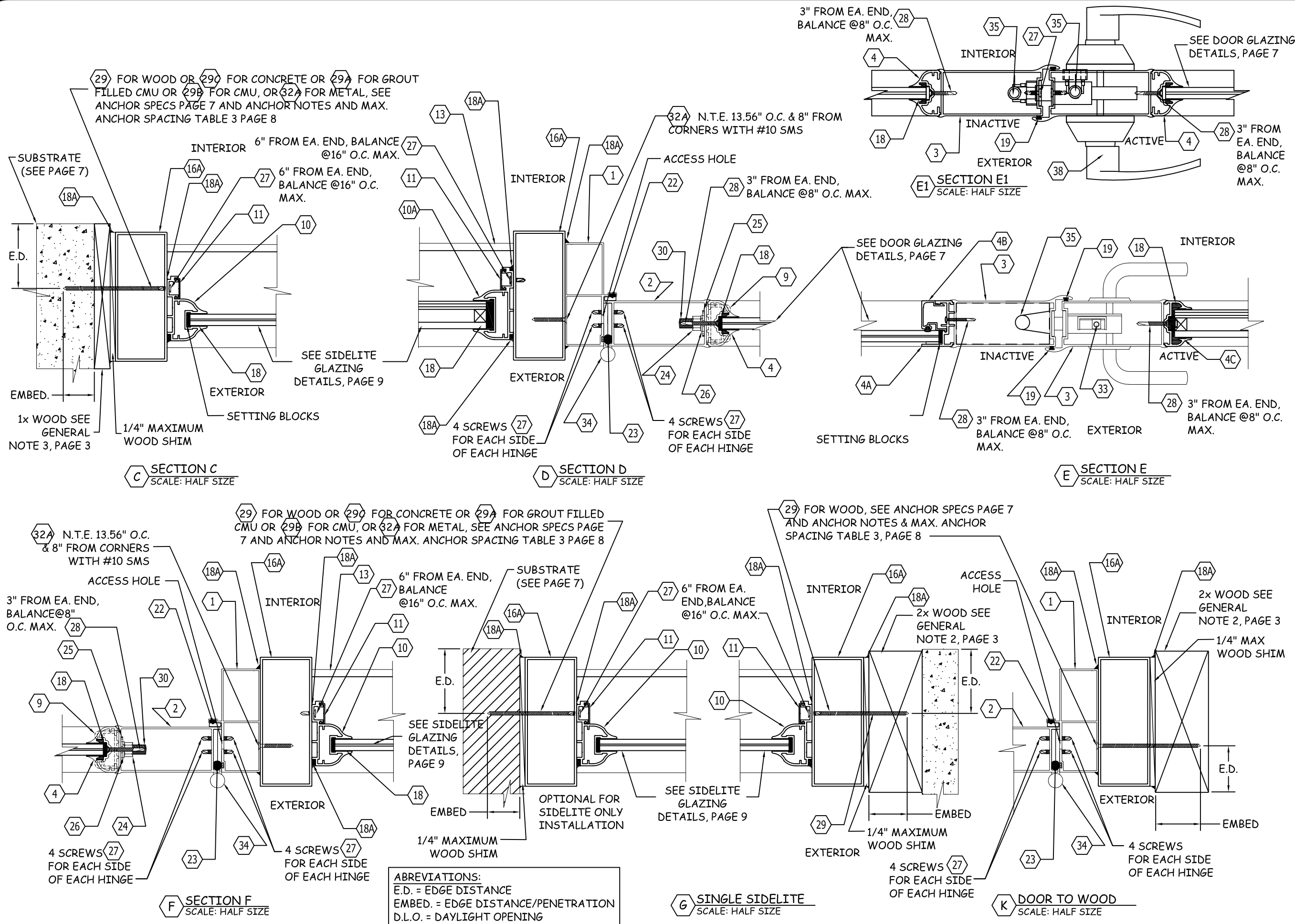
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DWG. #: AIR018

SHEET: OF 8

**4**

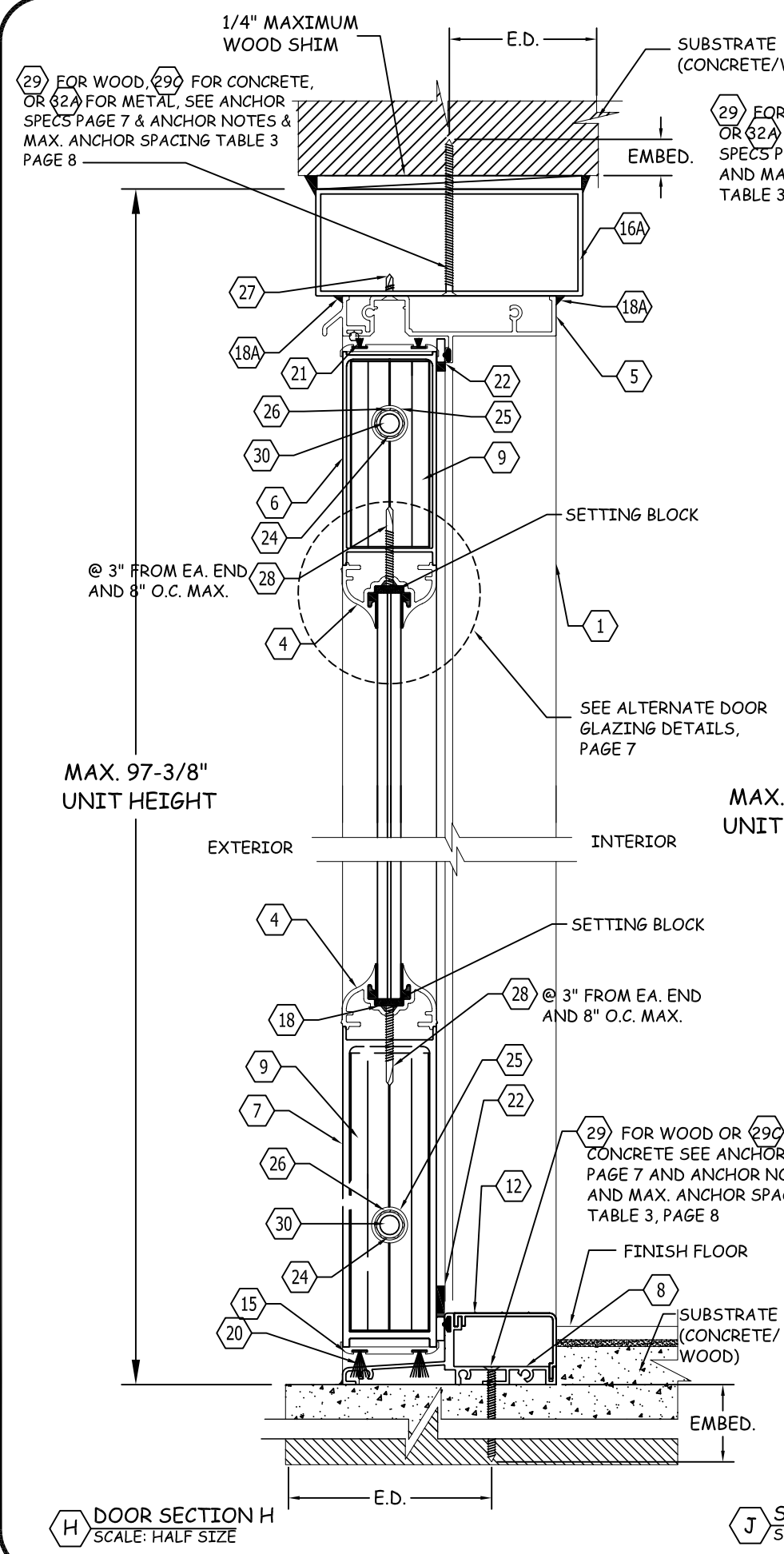


**ABBREVIATIONS:**  
 E.D. = EDGE DISTANCE  
 EMBED. = EDGE DISTANCE/PENETRATION  
 D.L.O. = DAYLIGHT OPENING

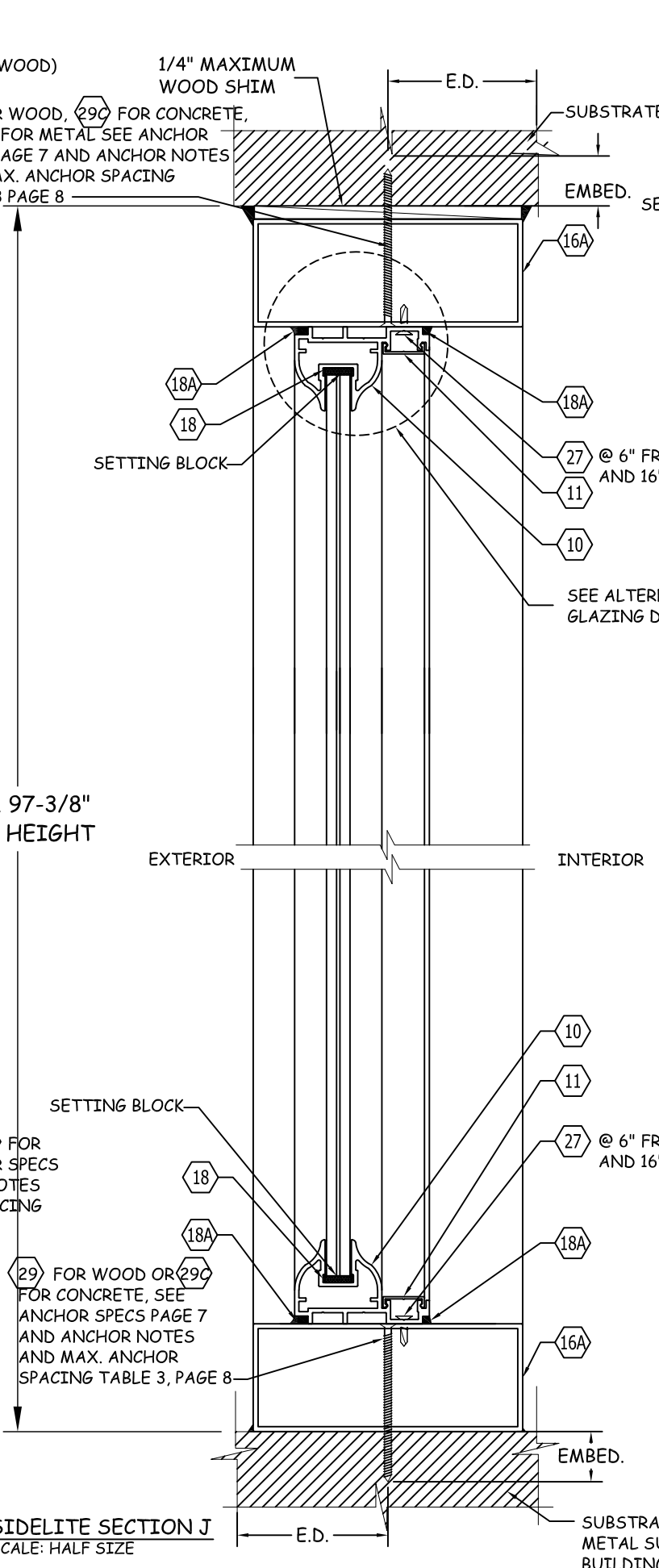
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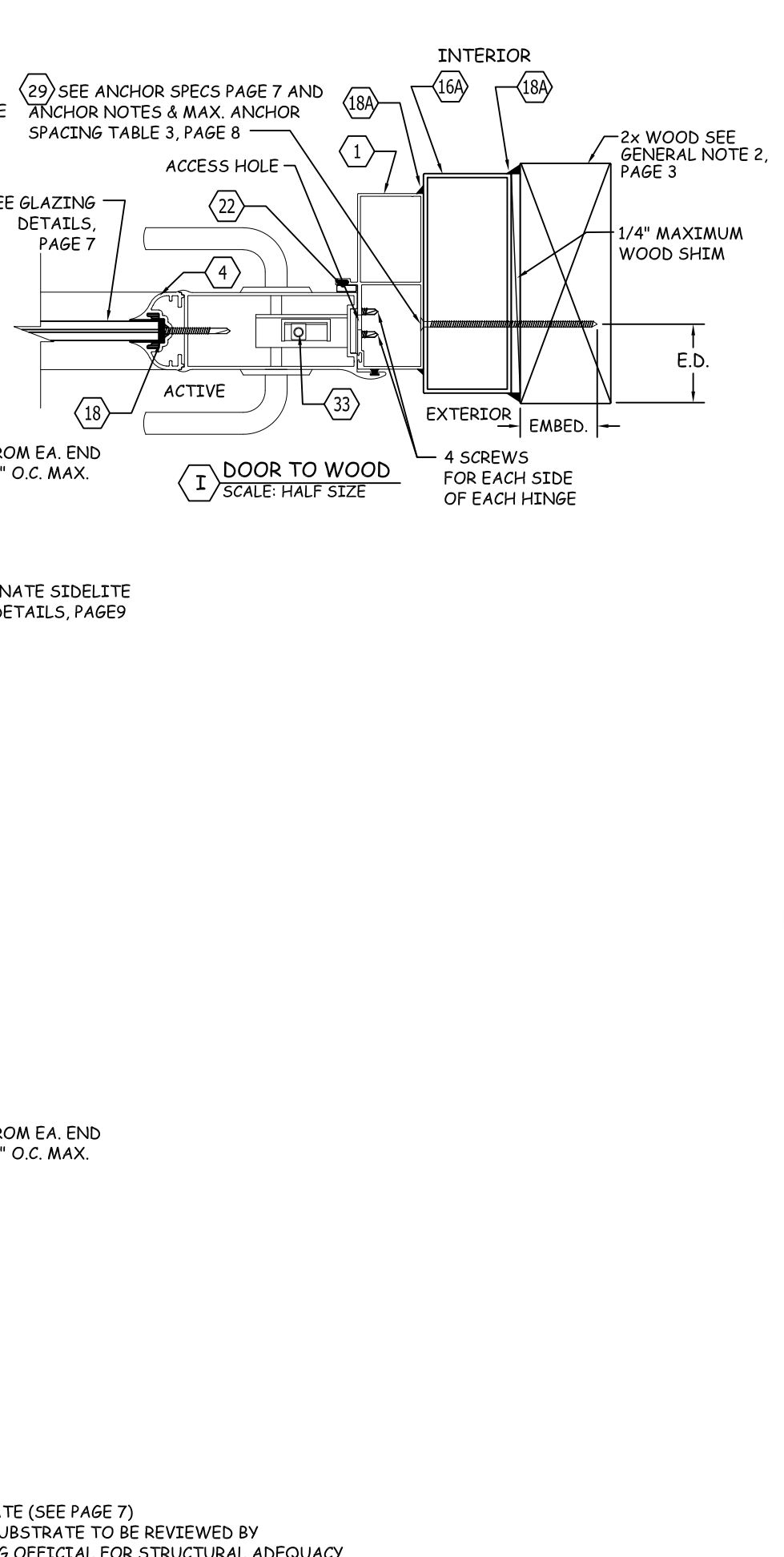
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**H** DOOR SECTION H  
SCALE: HALF SIZE



**J** SIDELITE SECTION J  
SCALE: HALF SIZE



**I** DOOR TO WOOD  
SCALE: HALF SIZE

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 WEB: www.buildingdrops.com

TITLE: **SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR**  
 VERTICAL AND HORIZONTAL SECTIONS  
 P.O. BOX 2097  
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REMARKS	BY	DATE
NEW LOCK ADDITION	SM	7/11/21

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5

SUBSTRATE (SEE PAGE 7)  
 METAL SUBSTRATE TO BE REVIEWED BY  
 BUILDING OFFICIAL FOR STRUCTURAL ADEQUACY

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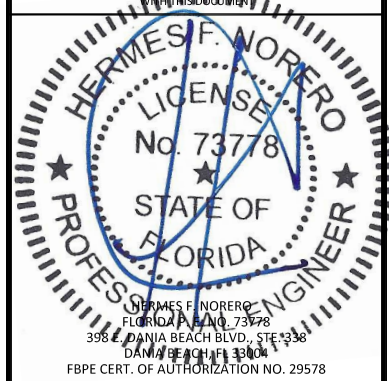
ASSEMBLY EXPLODED VIEW

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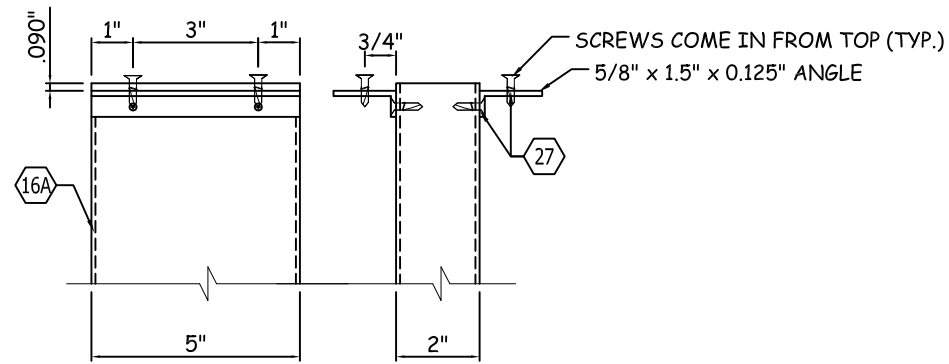
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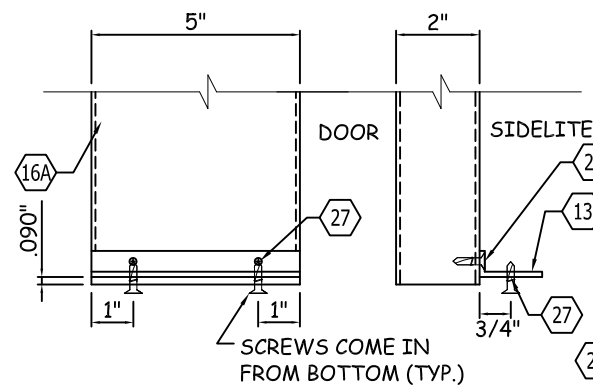
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**6**



M5 MULLION W/ CLIP ANGLES BETWEEN DOOR & SIDELITE  
N.T.S.



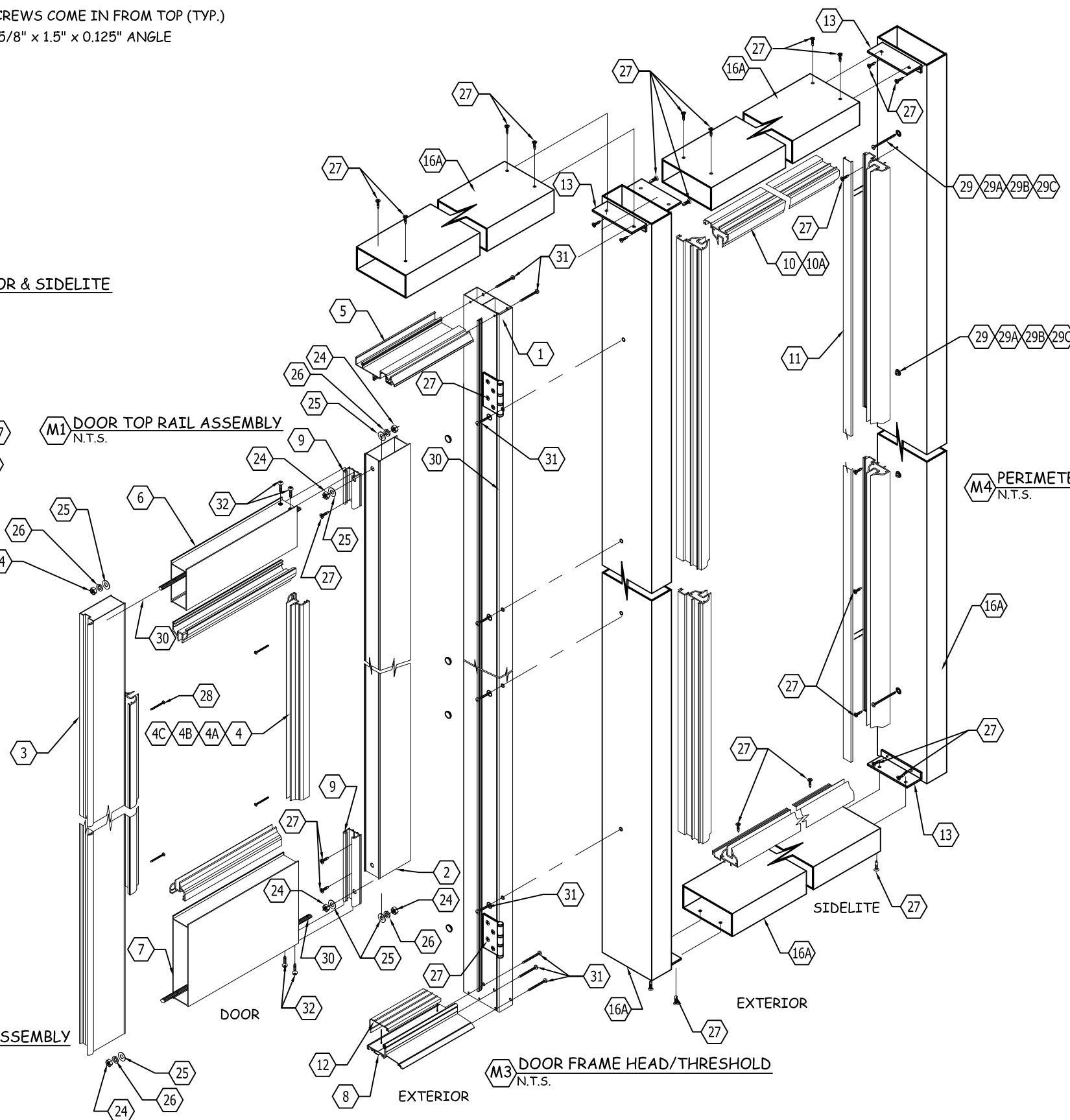
M6 MULLION W/ CLIP BETWEEN DOOR & SIDELITE - BOTTOM  
N.T.S.

M1 DOOR TOP RAIL ASSEMBLY  
N.T.S.

M2 DOOR BOTTOM RAIL ASSEMBLY  
N.T.S.

M3 DOOR FRAME HEAD/THRESHOLD  
N.T.S.

M4 PERIMETER SIDELITE ASSEMBLY  
N.T.S.



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NOTES:

- SINGLE SIDELITE WHEN USED WITH DOOR SHALL BE LIMITED TO DWL OF DOOR

NOM. HEIGHT (in)	NOM. WIDTH (in)	VERTICAL D.L.O. (in)	HORIZONTAL D.L.O. (in)	ACTUAL FINAL SIZES WITH 2"x5" FRAME MULLION		ALLOWABLE POSITIVE & NEGATIVE DESIGN WIND LOAD PSF
				OVERALL SIDELITE HEIGHT (in)	OVERALL SIDELITE WIDTH (in)	
93.25	30	90.13	26.88	97.38	34.13	75.0
93.25	24	90.13	20.88	97.38	28.13	75.0
93.25	18	90.13	14.88	97.38	22.13	75.0
93.25	12	90.13	8.88	97.38	16.13	75.0
81.25	30	78.13	26.88	85.38	34.13	75.0
81.25	24	78.13	20.88	85.38	28.13	75.0
81.25	18	78.13	14.88	85.38	22.13	75.0
81.25	12	78.13	8.88	85.38	16.13	75.0
78.00	30	74.88	26.88	82.13	34.13	75.0
78.00	24	74.88	20.88	82.13	28.13	75.0
78.00	18	74.88	14.88	82.13	22.13	75.0
78.00	12	74.88	8.88	82.13	16.13	75.0

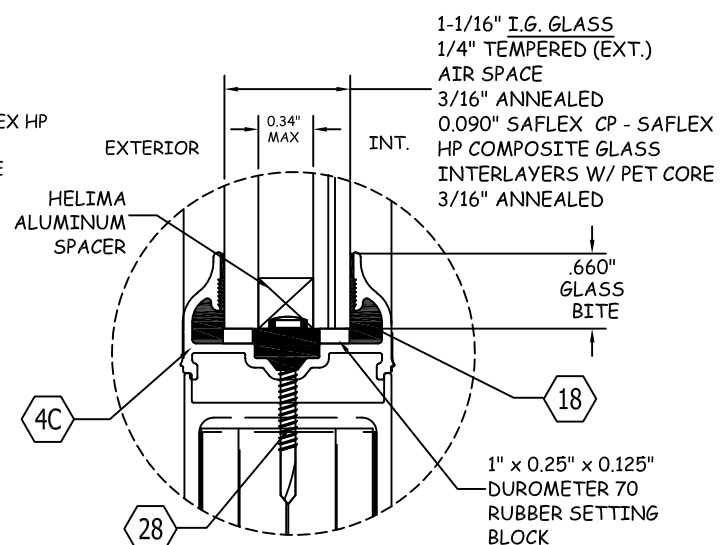
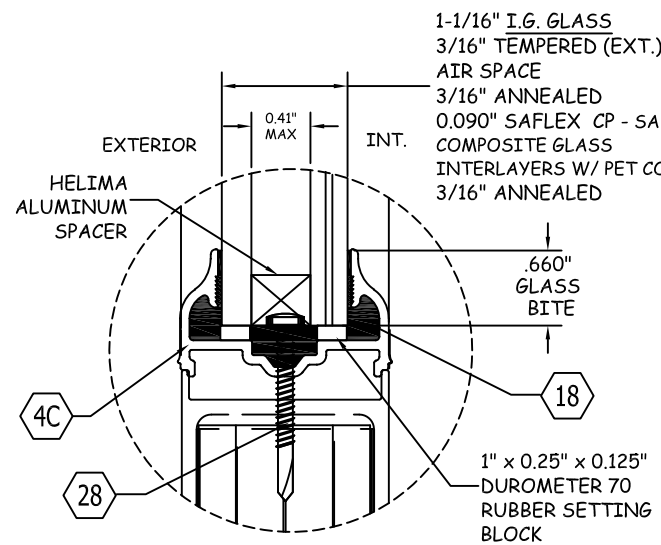
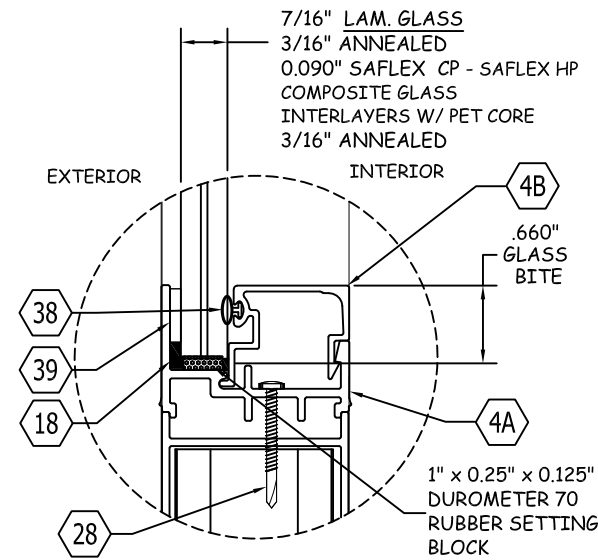
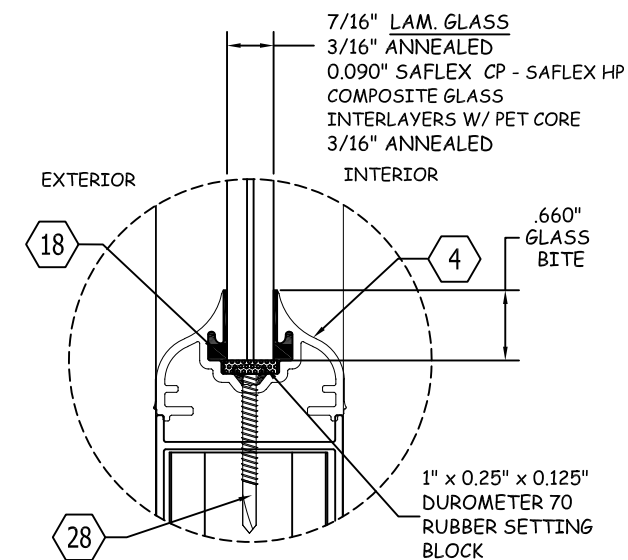
1 PANEL DOOR	2 PANEL DOOR (DOUBLE)	DOOR VERTICAL D.L.O. (in)	DOOR HORIZ. D.L.O. (in)	2"x5" FRAME/HEADER AND THRESHOLD OVERALL DOOR HEIGHT (in)	DOOR WITH 2"x5" FRAME HEADER AND THRESHOLD NO SIDELITE OVERALL 1 PANEL DOOR WIDTH (in)	DOOR W/ NO SIDELITE INCLUDES 2"x5" VERTICAL FRAME OVERALL 2 PANEL DOOR WIDTH (in)	ACTUAL FINAL SIZES OF DOORS W/ SIDELITE				ALLOWABLE POSITIVE AND NEGATIVE DESIGN WIND LOAD PSF		
							OVERALL 2 PANEL DOOR WIDTH W/ SIDELITE 30" ON EACH SIDE (in)	OVERALL 2 PANEL DOOR WIDTH W/ SIDELITE 24" ON EACH SIDE (in)	OVERALL 2 PANEL DOOR WIDTH W/ SIDELITE 18" ON EACH SIDE (in)	OVERALL 2 PANEL DOOR WIDTH W/ SIDELITE 12" ON EACH SIDE (in)			
95.25	36	95.25	72	81.67	22.23	97.38	40.13	76.13	140.38	128.38	116.38	104.38	75.0
95.25	30	95.25	60	81.67	16.23	97.38	34.13	64.13	128.38	116.38	104.38	92.38	75.0
95.25	24	95.25	48	81.67	10.23	97.38	28.13	52.13	116.38	104.38	92.38	80.38	75.0
83.25	36	83.25	72	69.67	22.23	85.38	40.13	76.13	140.38	128.38	116.38	104.38	75.0
83.25	30	83.25	60	69.67	16.23	85.38	34.13	64.13	128.38	116.38	104.38	92.38	75.0
83.25	24	83.25	48	69.67	10.23	85.38	28.13	52.13	116.38	104.38	92.38	80.38	75.0
80.00	36	80.00	72	66.42	22.23	82.13	40.13	76.13	140.38	128.38	116.38	104.38	75.0
80.00	30	80.00	60	66.42	16.23	82.13	34.13	64.13	128.38	116.38	104.38	92.38	75.0
80.00	24	80.00	48	66.42	10.23	82.13	28.13	52.13	116.38	104.38	92.38	80.38	75.0

NOTES:

- DOOR FRAME HEIGHT = NOMINAL DOOR HEIGHT + 2.125"
- SIDELITE FRAME HEIGHT = NOMINAL SIDELITE HEIGHT + 4.125"
- APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL
- RATINGS ABOVE ARE APPLICABLE FOR DOORS USING EITHER MULTIPPOINT LOCKING SYSTEM OR CYLINDRICAL LOCK AND DEADBOLT WITH FLUSH BOLT ON ACTIVE DOOR.

ANCHORS SPECIFICATIONS

ITEM # 29 29C CONCRETE 32A	SIDELITE HEAD/SILL AND DOOR HEAD FRAME: #14 WOOD SCREW INTO SG=0.55 WOOD WITH 1 1/4" EDGE DISTANCE, MINIMUM SPACING = 1 1/4" AND 1 1/2" EMBEDMENT INTO 2 (2X) (Fyb= 70 KSI) 1/4" Ø ELCO ULTRACON INTO CONCRETE (MIN F'c = 3000 PSI), WITH 2 1/2" EDGE DISTANCE, MINIMUM SPACING = 3" & MIN. EMBEDMENT = 1 3/4" (Fy=155 KSI Fu=177 KSI) #10 GRADE 5 SHEET METAL SCREW (SMS) INTO METAL STRUCTURE a. 6063-T5 ALUMINUM ALLOY, MINIMUM, 0.090- 0.125" THICK b. 12 GAUGE, 36 KSI STEEL-USE G-90 GALVANIZED STEEL OR PAINTED STEEL-SEE FBC DISSIMILAR METAL REQUIREMENTS
29 29C CONCRETE	DOOR THRESHOLD: #14 WOOD SCREW INTO SG=0.55 WOOD WITH 1 1/4" EDGE DISTANCE, MINIMUM SPACING = 1 1/4" & 1 1/2" EMBEDMENT, AT THRESHOLD INTO 2 (2X) (Fyb= 70 KSI) 1/4" Ø ELCO ULTRACON INTO CONCRETE (MIN F'c = 3000 PSI), WITH 2 1/2" EDGE DISTANCE, MINIMUM SPACING = 3" & MIN. EMBEDMENT = 1 3/4" (Fy=155 KSI Fu=177 KSI)
29 29A GROUT FILLED CMU 29B CMU 29C CONCRETE 32A	SIDELITE JAMB/FRAME AND DOOR JAMB/FRAME: #14 WOOD SCREW INTO SG=0.55 WOOD WITH 1 1/4" EDGE DISTANCE, MINIMUM SPACING = 1 1/4" AND 1 1/2" PENETRATION INTO 2 (2X) (Fyb= 70 KSI) 1/4" Ø ELCO ULTRACON INTO GROUT FILLED CMU (COMPLIES W/ ASTM C 90 NORMAL WEIGHT WITH 2 KSI), W/ 2 1/2" EDGE DISTANCE, MIN. SPACING = 4" & MIN. EMBEDMENT = 1 3/4" (Fy=155 KSI Fu=177 KSI) 1/4" Ø ELCO ULTRACON INTO CMU (COMPLIES WITH ASTM C 90 NORMAL WEIGHT WITH 2 KSI), WITH 1" EDGE DISTANCE, MINIMUM SPACING = 6" & MIN. 1 1/4" EMBEDMENT (Fy=155 KSI Fu=177 KSI) 1/4" Ø ELCO ULTRACON INTO CONCRETE (MIN F'c = 3000 PSI), WITH 2 1/2" EDGE DISTANCE, MINIMUM SPACING = 3" & MIN. 1 3/4" EMBEDMENT (Fy=155 KSI Fu=177 KSI) #10 GRADE 5 SHEET METAL SCREW (SMS) INTO METAL STRUCTURE a. 6063-T5 ALUMINUM ALLOY, MINIMUM, 0.090- 0.125" THICK b. 12 GAUGE, 36 KSI STEEL-USE G-90 GALVANIZED STEEL OR PAINTED STEEL-SEE FBC DISSIMILAR METAL REQUIREMENTS
27	CLIP ANGLES AT MULLION BETWEEN DOOR AND SIDELITE (2 TOP ANGLES AND 1 BOTTOM ANGLE ON EACH MULLION): #10 GRADE 5 SHEET METAL SCREW - 2 SMS IN EACH LEG OF THE 0.625" X 1.5" X 0.125" ANGLE



DOOR GLAZING DETAIL 1

DOOR GLAZING DETAIL 2

DOOR GLAZING DETAIL 3

DOOR GLAZING DETAIL 4

PREPARED BY:



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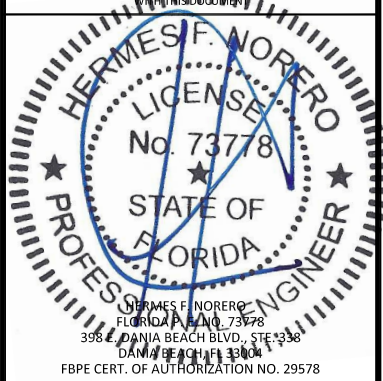
TITLE: SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR  
ANCHOR SCHEDULE, SIZE TABLE AND DOOR GLAZING DETAILS

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REMARKS	BY	DATE
NEW LOCK ADDITION	SM	7/11/21

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 DRAWING.



**FL20477**

DATE: 10/26/20

DWG. BY: SM  
CHK. BY: HN

SCALE: NTS

DWG. #: AIR018

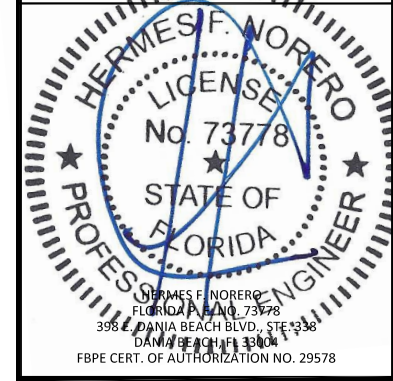
SHEET: OF 8

TITLE: **SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR**  
 INSTALLATION LAYOUTS AND ANCHOR LAYOUTS

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 windows and doors

REMARKS	BY	DATE
NEW LOCK ADDITION	SM	7/11/21



**FL20477**

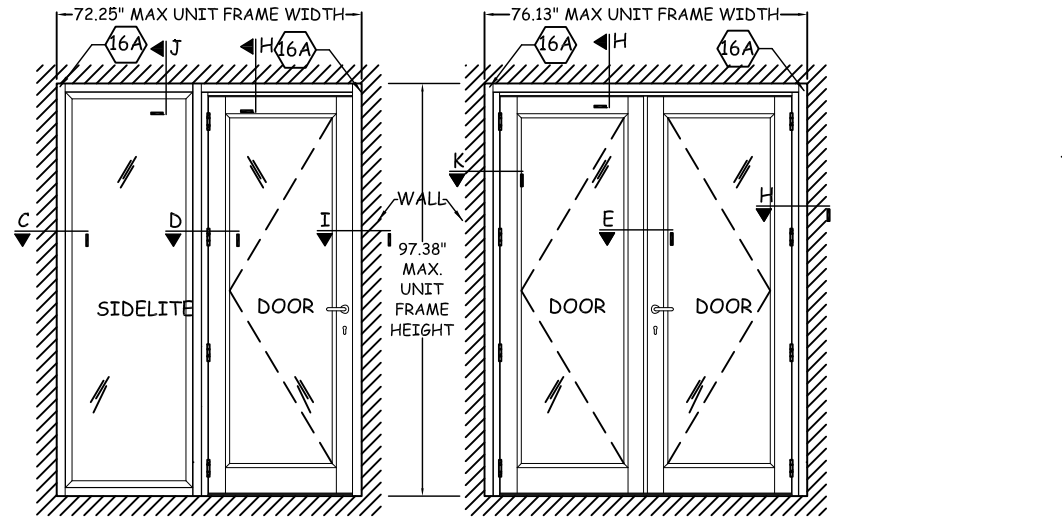
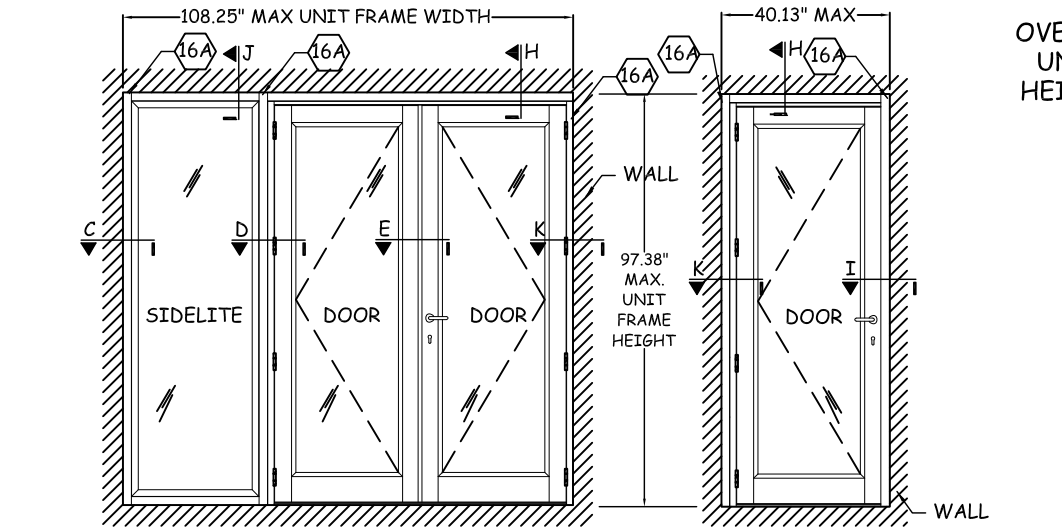
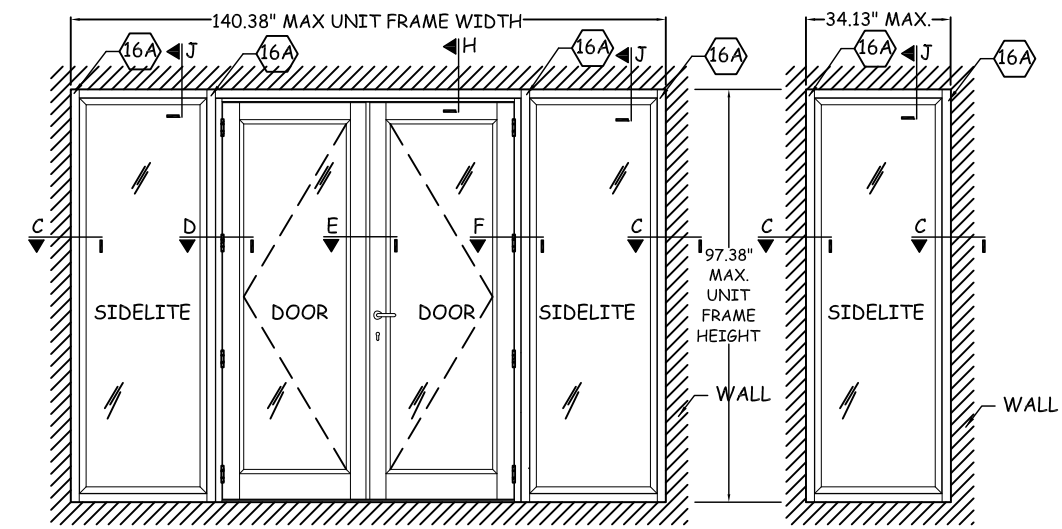
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DWG. BY: **SM**      CHK. BY: **HN**

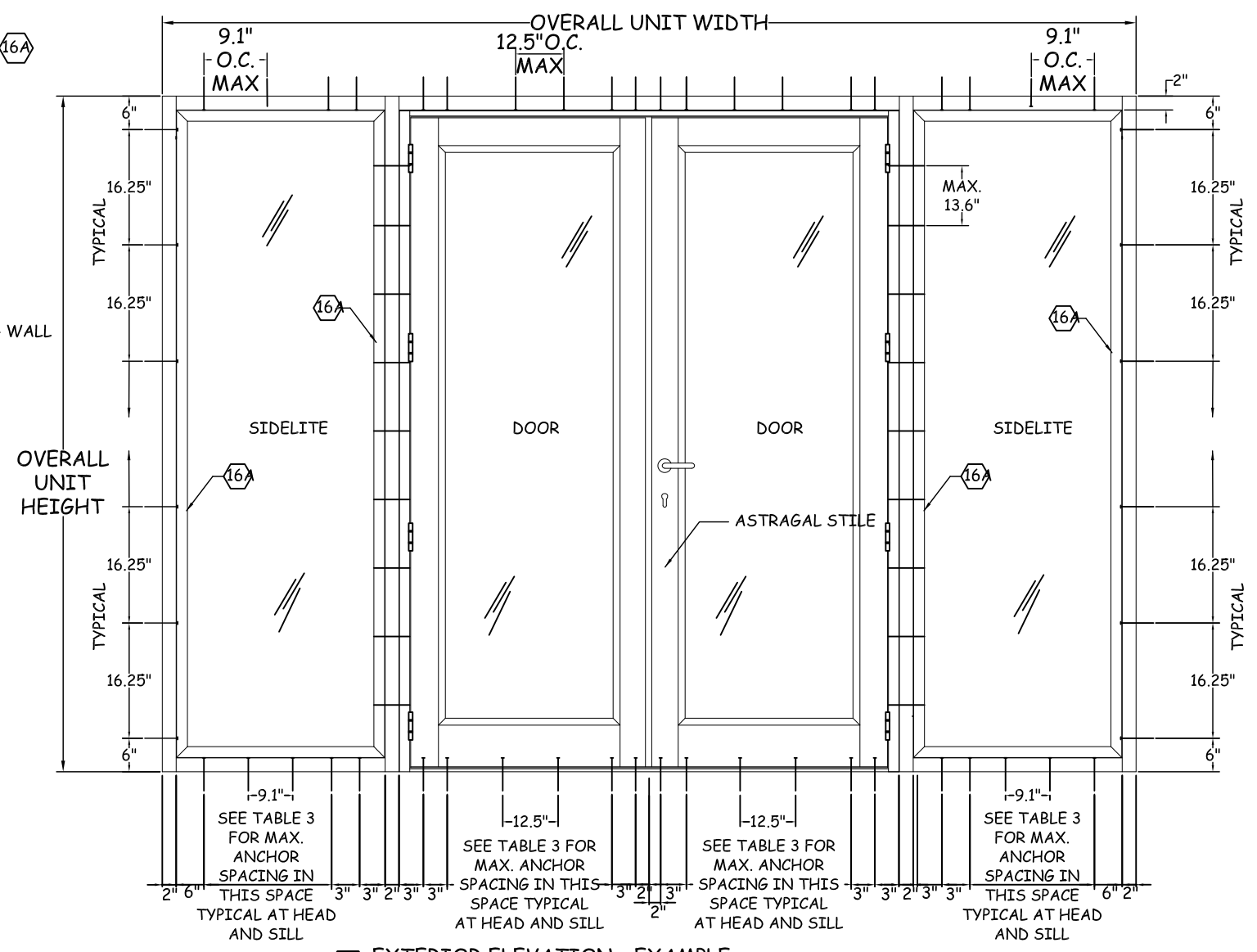
SCALE: **NTS**

DWG. #: **AIR018**

SHEET: **8** OF 8



**N** OPTIONAL INTALLATION LAYOUTS  
 N.T.S.



**M** EXTERIOR ELEVATION - EXAMPLE  
 N.T.S.

- NOTE:
- THE DIAGRAM ABOVE SHOWS 1/4"Ø ANCHORS LOCATIONS THAT MUST BE USED FOR ALL DOOR & SIDELITE SIZES. MAXIMUM ANCHOR SPACING BETWEEN THE STARTER ANCHOR & CLUSTER OR MAXIMUM ANCHOR SPACING BETWEEN CLUSTERS CAN BE FOUND IN TABLE 3, THIS PAGE.

SUBSTRATES	SIDELITE JAMB TO WALL (in)	MIN. 2 ANCHORS		DOOR JAMB OR SIDELITE TO MULLION (in)	MIN. 2 ANCHORS		DOOR THRESHOLD (in)
		SIDELITE HEAD (in)	SIDELITE SILL (in)		DOOR JAMB TO WALL (in)	DOOR HEAD (in)	
SG=0.55 WOOD CONCRETE	16.25	9.1	9.1	13.6	13.6	12.5	12.5
GROUT FILLED CMU HOLLOW CMU	16.25	N/A	N/A	13.6	13.6	N/A	N/A

**ANCHOR NOTES:**

1/4" DIAMETER ELCO ULTRACON WITH 2.5" EDGE DISTANCE & 1 3/4" EMBEDMENT. MIN. ANCHOR SPACING OF 3" WHEN INSTALLED IN CONCRETE AT HEAD, JAMB OR SILL, 4" FOR GROUT FILLED CMU AND 6" FOR HOLLOW CMU WHEN INSTALLED AT THE JAMBS. #14 DIAMETER WOOD SCREW WITH 1.25" EDGE DISTANCE & MIN. 1.25" O.C. SPACING WITH 1.5" PENETRATION

ANCHOR REQUIREMENTS FOR DOOR THRESHOLD AND HEAD ON BOTH SIDES OF MULLION FOR CONCRETE SUBSTRATES. USE FOUR (4) 1/4" DIAMETER ELCO ULTRACON, ITEM 29C TO THRESHOLD, WITH 1 EACH AT 3" AND 6" FROM EACH END OF THRESHOLD & 1 EACH AT 3" AND 6" FROM EDGE OF MULLION (16A) IN SIDELITE SILL.

FOR WOOD SUBSTRATES, USE TWO (2) #14 DIAMETER WOOD SCREWS WITH 2" PENETRATION, INSTALLED AT EACH OF THE SAME LOCATIONS AS DESCRIBED ABOVE FOR CONCRETE SUBSTRATES.

BALANCE OF ANCHORS, FOR CONCRETE AND WOOD SUBSTRATES, BETWEEN STARTER ANCHORS AND CLUSTERS AT MULLION SHALL BE EQUALLY SPACED, BUT SHALL NOT EXCEED THE MAXIMUM ANCHOR SPACING SHOWN IN TABLE 3 ON THIS PAGE.

ANCHOR REQUIREMENTS FOR DOOR THRESHOLD AND HEAD AT ASTRAGAL FOR CONCRETE INSTALLATIONS. USE TWO (2) ULTRACONS, ITEM 29C, WITH 2 1/2" EDGE DISTANCE & 1 3/4" EMBEDMENT; ONE AT 2" & 5" ON EACH SIDE OF THE CENTERLINE OF THE 2 DOORS. FOR WOOD INSTALLATIONS, USE TWO (2) #14 DIAMETER WOOD SCREWS, ITEM 29 WITH 1 1/4" EDGE DISTANCE AND 1 1/2" EMBEDMENT, ONE EACH AT 2" & 5" ON EACH SIDE OF THE CENTERLINE OF THE 2 DOORS.

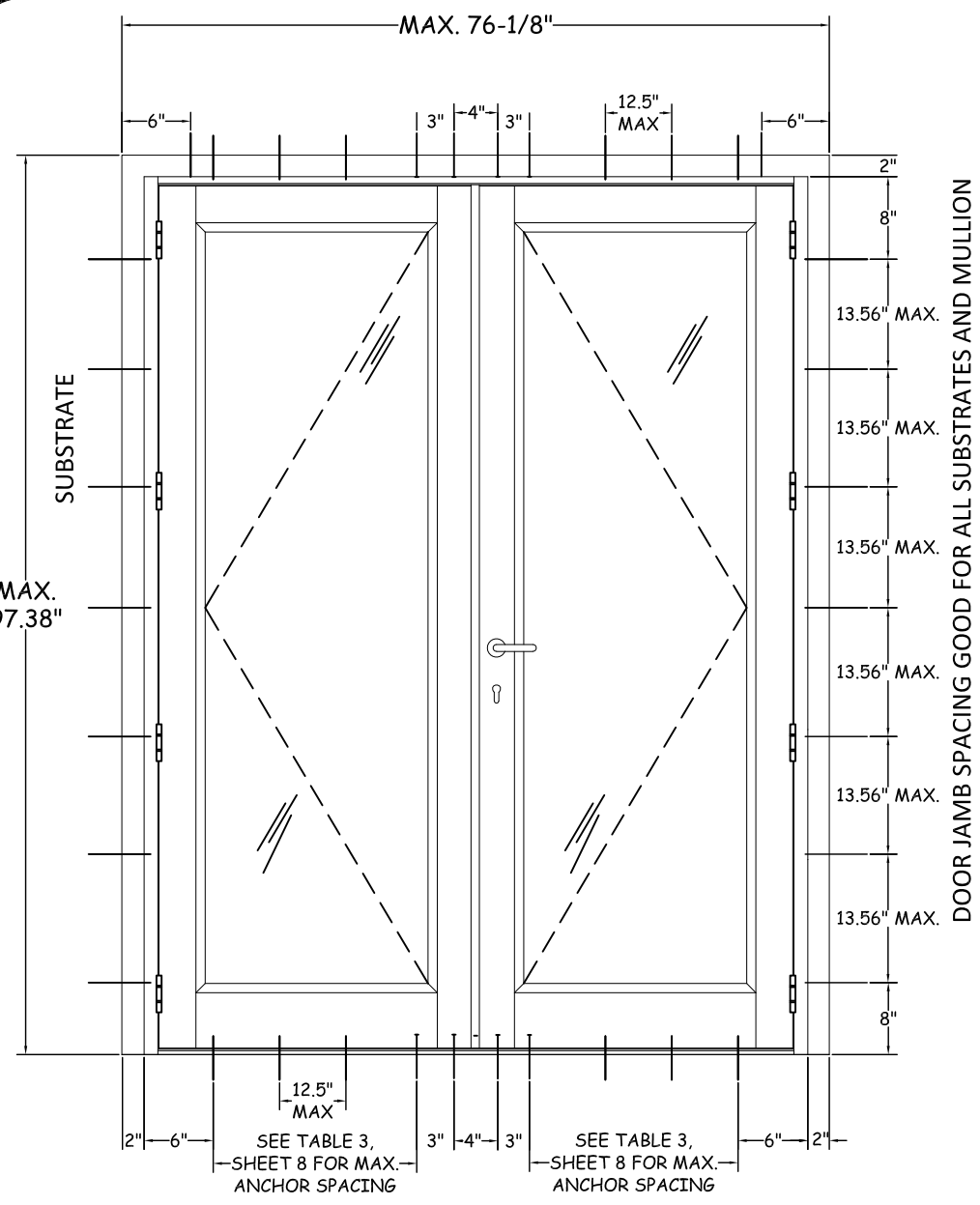
BALANCE OF ANCHORS, FOR CONCRETE AND WOOD SUBSTRATES, BETWEEN STARTER ANCHORS AND CLUSTERS AT ASTRAGAL SHALL BE EQUALLY SPACED, BUT SHALL NOT EXCEED THE MAXIMUM ANCHOR SPACING SHOWN IN TABLE 3 ON THIS PAGE.

ANCHOR REQUIREMENTS FOR SIDELITE AND DOOR CONNECTION TO VERTICAL MULLION ALL #10 GRADE 5 SCREWS, ITEM 31, CONNECTING THE SIDELITE AND OR DOOR TO THE 2" X 5" X 0.090" VERTICAL TUBE MULLION, ITEM 16A. TO BEGIN AND END AT 8" (STARTER FASTENER) FROM THE TOP AND BOTTOM OF THE 2" X 5" TUBE. THE BALANCE OF THE #10 GRADE 5 SCREWS BETWEEN THE STARTER FASTENERS SHALL BE EQUALLY SPACED, BUT SHALL NOT EXCEED THE MAXIMUM ANCHOR/FASTENER SPACING SHOWN IN TABLE 3 ON DRAWING PAGE 8 OF 9.

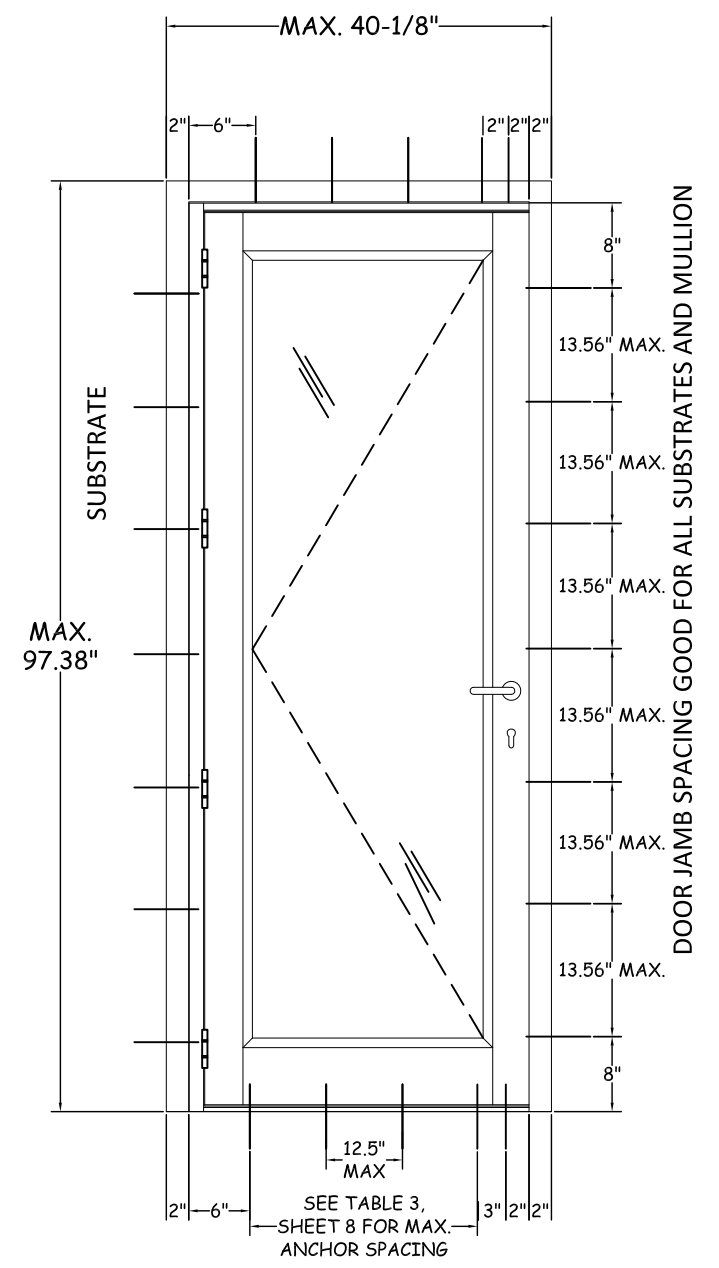
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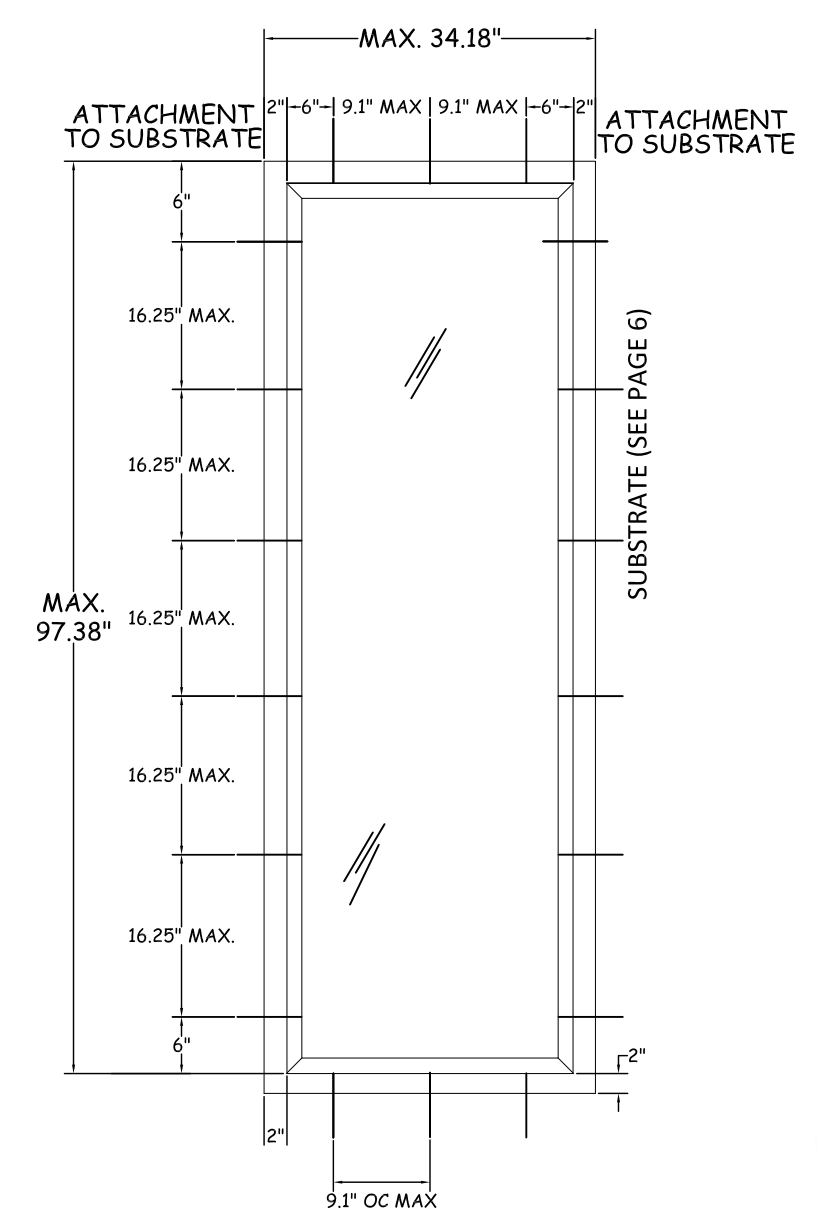
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**Q** DOUBLE DOOR  
N.T.S.

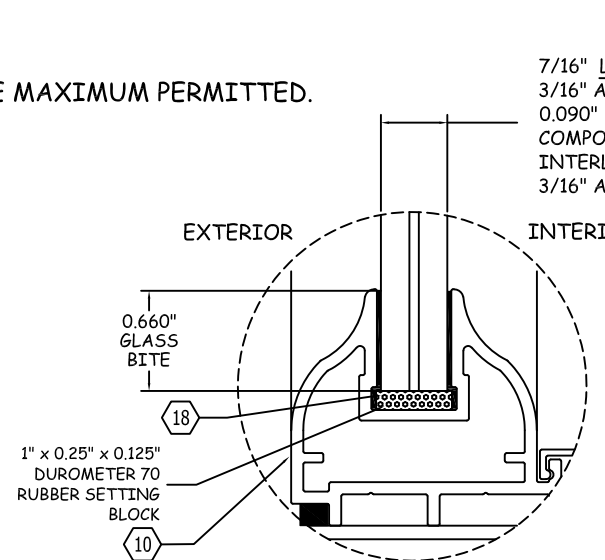


**R** SINGLE DOOR  
N.T.S.

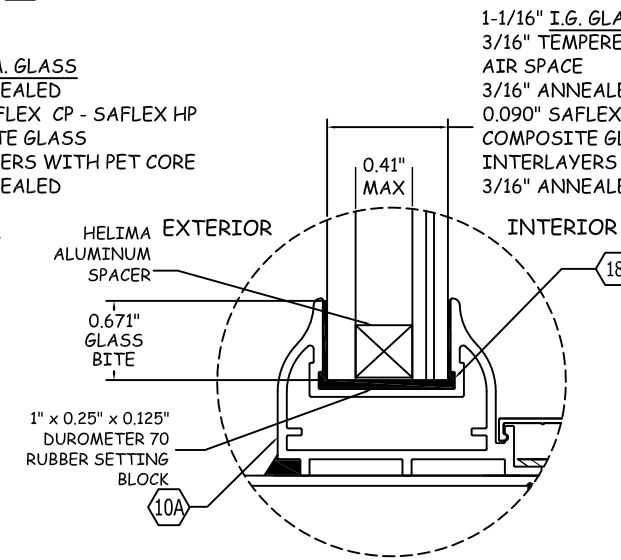


**S** SINGLE SIDELIGHT  
N.T.S.

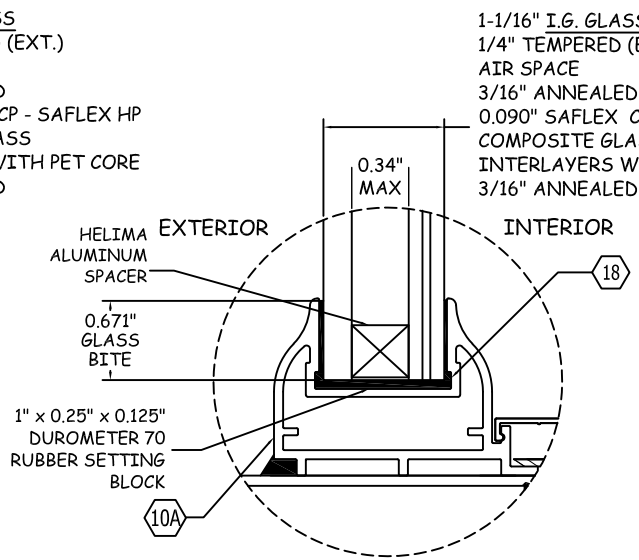
**NOTE:**  
1. ALL ANCHORS SPACING SHOWN ABOVE IS THE MAXIMUM PERMITTED.



**SIDELITE GLAZING DETAIL 1**



**SIDELITE GLAZING DETAIL 2**



**SIDELITE GLAZING DETAIL 3**

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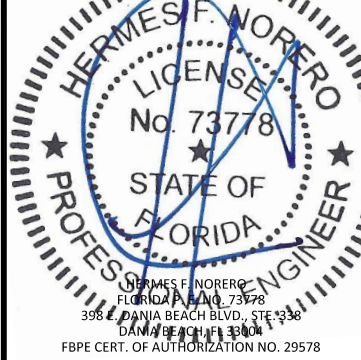
TITLE: **SERIES CONTINENTAL OUTSWING ALUMINUM GLASS DOOR**  
 ANCHOR LAYOUTS & SIDELITE GLAZING DETAILS

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 windows and doors

REMARKS	BY	DATE
NEW LOCK ADDITION	SM	7/11/21

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HERMES F. NORERO  
 LICENSE No. 73778  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

**FL20477**

DATE: **10/26/20**

DWG. BY: **SM**      CHK. BY: **HN**

SCALE: **NTS**

DWG. #: **AIR018**

SHEET:                      OF 8