

SERIES MDCA 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES LARGE MISSILE IMPACT RESISTANT

GENERAL NOTES:

1. SERIES MDCA 2155 ALUMINUM OUTSWING FRENCH DOOR, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. SERIES MDCA 2155 ALUMINUM OUTSWING FRENCH DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 3 BELOW.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. A DURATION FACTOR $C_D=1.60$ WAS USED TO VERIFY FASTENERS IN WOOD, PER N.D.S 2018.

THIS DOOR'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 AND 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY, INC. LAB REPORT #8131 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 AND 1604 OF THE FLORIDA BUILDING CODE. GLASS VERIFIED PER ASTM E-1300-9a, PER SECTION 2404.1 OF DE FLORIDA BUILDING CODE.

2. REMAINING COMPONENTS FOR THIS FRENCH DOOR SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS AND COMPONENT SHEETS 2, 3 AND 4 OF THIS DRAWING.
3. MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THIS PRODUCT SHALL BE AS SHOWN ON SHEET 21. SEE DOOR ELEVATIONS ON SHEETS 5 THRU 10 FOR QUALIFIED CONFIGURATIONS.
4. THIS SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
5. THIS SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR IS APPROVED FOR AIR AND WATER INFILTRATION.
6. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH $F_y=25.0$ ksi MINIMUM. THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING. ALL ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.
7. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
8. WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, $G=0.55$. AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2326 OF THE FLORIDA BUILDING CODE.
9. ANCHOR NOTES: EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.

(A) TO EXISTING POURED CONCRETE: (MIN. $f'_c = 2000$ psi), MIN. EDGE DISTANCE (E.D.) = 3".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22), THRU 1" P.T. WOOD BUCK.

(B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) = 3".

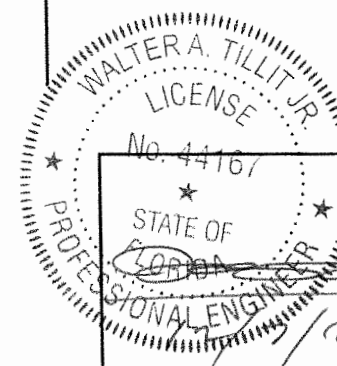
- 1/4"Ø TAPCON ANCHOR W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22), THRU 1" P.T. WOOD BUCK.
(C) TO EXISTING 2xP.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1".
- 1/4"Ø TAPCON ANCHOR W/ 1 1/2" MIN. EMBEDMENT, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22).

- (D) TO EXISTING MIN. 1/8" THICK ALUMINUM TUBE (6063-T5 ALLOY) MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22A), FULLY ENGAGED.

- (E) TO EXISTING MIN. 12 GAGE STEEL MEMBER (MIN A-653 GRADE 33 OR A-36) MIN. EDGE DISTANCE (E.D.) = 1/2".
- 1/4"Ø-14 TEK SCREW, AS MANUFACTURED BY ITW/BUILDEX, INC. (COMPONENT 22A), FULLY ENGAGED.

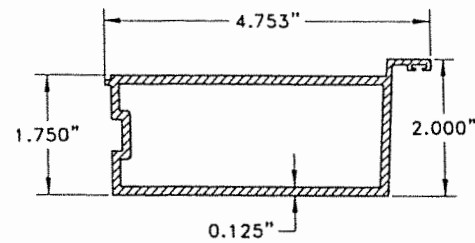
10. PROVIDE 1/4" MAX. LOAD BEARING SHIM, WHEN ALLOWED BY THIS DRAWING.
11. DOORS INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
12. ALL DOORS COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING SHALL BE SEAL/CAULK TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL ALL AROUND FULL LENGTH.
13. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.
14. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
(a) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
(b) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
(c) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

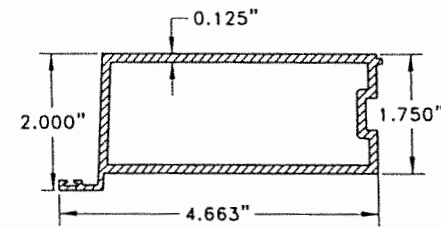


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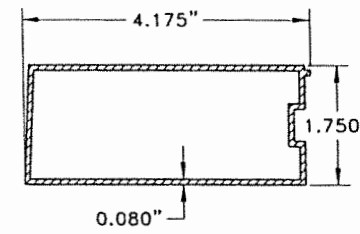
FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			DRAWN BY W.H.		
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 - Fax : (305)871-1531 e-mail: tilteco@aol.com			SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES		
WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167			MIAMI DADE ALUMINUM CORP. 1815 WEST 31ST PLACE HIALEAH, FL 33012		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			2		
2			3		
DRAWING No					12/07/2023
					23-255
					SHEET 1 OF 24



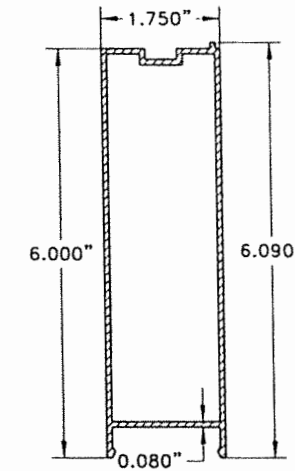
① **INACTIVE LOCK STILE**
6063-T6 ALLOY



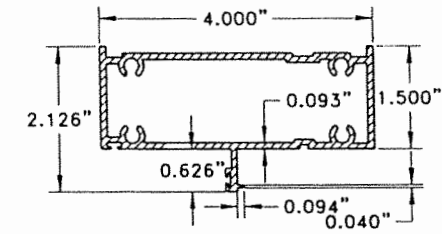
② **ACTIVE LOCK STILE**
6063-T6 ALLOY



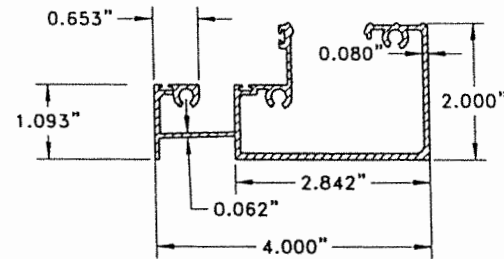
③ **HINGE & LOCK STILE**
6063-T6 ALLOY



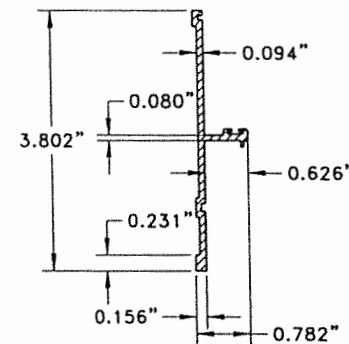
④ **TOP & BOTTOM RAIL**
6063-T6 ALLOY



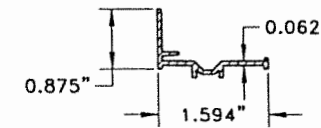
⑤ **FRAME HEAD & JAMB
SIDELITE & HEAD DOOR**
6063-T6 ALLOY



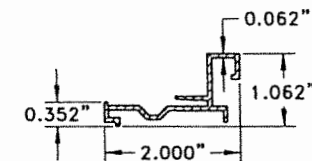
⑥ **SILL & HEAD FRAME
DOOR & SIDELITE**
6063-T6 ALLOY



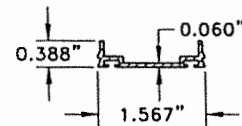
⑦ **SIDELITE JAMB & TRANSOM INSERT**
6063-T6 ALLOY



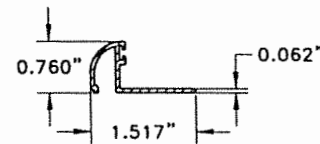
⑧ **GLAZING ADAPTER FOR LAMINATED
& LAMINATED-INSULATED GLASS**
6063-T6 ALLOY



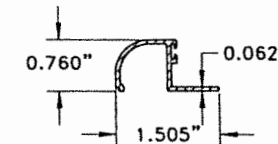
⑨ **GLAZING ADAPTER SIDELITE & TRANSOM FOR
LAMINATED & LAMINATED-INSULATED GLASS**
6063-T6 ALLOY



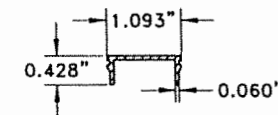
⑩ **WEATHER STRIP ADAPTER**
6063-T6 ALLOY



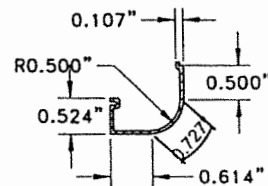
⑪ **GLAZING BEAD
LAMINATED-INSULATED -13/16\"**
6063-T6 ALLOY



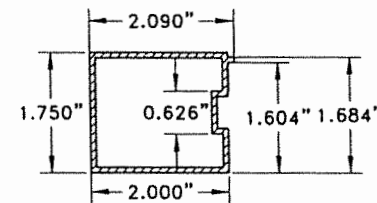
⑫ **GLAZING BEAD FOR
LAMINATED GLASS- 7/16\"**
6063-T6 ALLOY



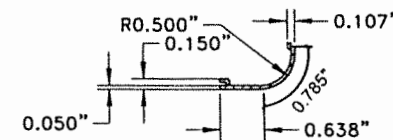
⑬ **HEAD & SILL COVER PLATE**
6063-T6 ALLOY



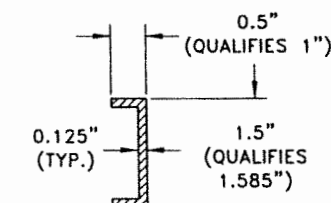
⑭ **SCREW COVER FOR TRANSOM**
6063-T6 ALLOY



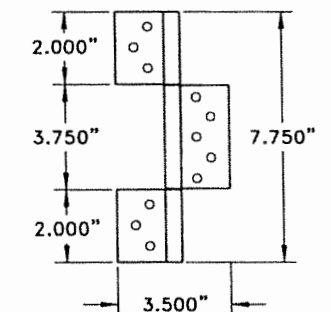
⑮ **STILE FOR SIDELITE PANEL**
6063-T6 ALLOY



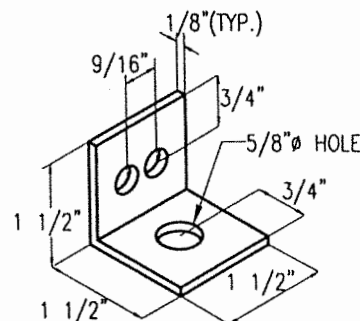
⑯ **SCREW COVER FOR DOOR JAMB,
DOOR HEAD & SIDELITE JAMB**
6063-T6 ALLOY



⑰ **RETAINER CLIP**
(U-CHANNEL)
6063-T6 ALLOY
5\"/>

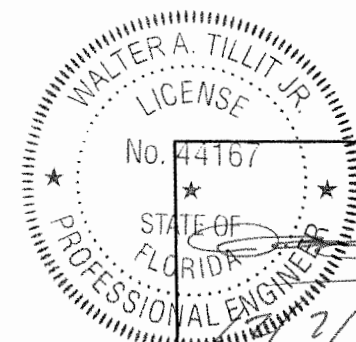


⑲ **EXTRUDED HINGES**
6063-T6 ALLOY



⑳ **SHOOT BOLT GUIDE**
6063-T6 ALUMINUM ANGLE

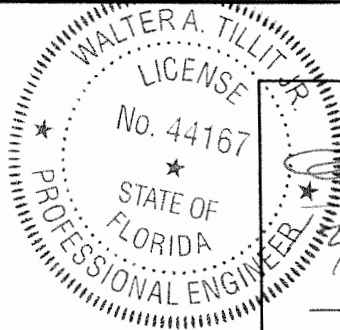
COMPONENTS
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FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES MIAMI DADE ALUMINUM CORP. 1615 WEST 31ST PLACE HIALEAH, FL 33012		
REV. No. 1 DESCRIPTION DATE			REV. No. 2 DESCRIPTION DATE		
DRAWN BY W.H. DATE 12/07/2023 DRAWING No. 23-255 SHEET 2 OF 24					

BILL OF MATERIALS			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
1	INACTIVE LOCK STILE	SEE SHEET 2	6063-T6
2	ACTIVE LOCK STILE	SEE SHEET 2	6063-T6
3	HINGE & LOCK STILE (SINGLE DOOR) & HINGE STILE (DOUBLE DOOR)	SEE SHEET 2	6063-T6
4	TOP & BOTTOM RAIL	SEE SHEET 2	6063-T6
5	FRAME HEAD & JAMB @ SIDELITE & HEAD @ DOOR	SEE SHEET 2	6063-T6
6	SILL & HEAD FRAME @ DOOR & SIDELITE	SEE SHEET 2	6063-T6
7	SIDELITE JAMB & TRANSOM INSERT	SEE SHEET 2	6063-T6
8	GLAZING ADAPTER DOOR FOR LAMINATED & LAMINATED-INSULATED GLASS	SEE SHEET 2	6063-T6
9	GLAZING ADAPTER SIDELITE & TRANSOM FOR LAMINATED & LAMINATED-INSULATED GLASS	SEE SHEET 2	6063-T6
10	WHEATHER STRIP ADAPTER	SEE SHEET 2	6063-T6
11	GLAZING BEAD FOR LAMINATED-INSULATED GLASS-13/16"	SEE SHEET 2	6063-T6
12	GLAZING BEAD FOR LAMINATED GLASS-7/16"	SEE SHEET 2	6063-T6
13	HEAD AND SILL COVER PLATE	SEE SHEET 2	6063-T6
14	SCREW COVER FOR TRANSOM	SEE SHEET 2	6063-T6
15	STILE FOR SIDELITE PANEL	SEE SHEET 2	6063-T6
16	SCREW COVER FOR DOOR JAMB, DOOR HEAD & SIDELITE JAMB	SEE SHEET 2	6063-T6
17	#14 x 1 1/2" S.S. TEK SCREW 5" FROM JAMBS, BALANCE @ 12" O.C.	SIDELITE JAMB INSERT-TRANSOM INSERT & RETAINER CLIP SCREW	STEEL
18	#12 x 1" PAN HEAD S.S. TEK SCREW 6" FROM ENDS, BALANCE @ 7" O.C.	SIDELITE JAMB STILE (PANEL CONNECTION)	STEEL
19	#14 x 2 1/2" H.H. SCREW, 5" FROM JAMBS, BALANCE @ 12" O.C.	DOOR-SIDELITE-TRANSOM (FRAME ASSEMBLY) -180 Ksi TENSILE STRENGTH	STEEL
20	#10 x 1" F.H. S.S. TEK SCREW @ 8" O.C.	GLAZING ADAPTER & FRAME HEAD/JAMB ASSEMBLY & HINGE/LOCK STILE	STEEL
21	RETAINER CLIP	AT DOOR PANEL, W/ (2) #14x3/4 TEK SCREWS TO STILES, JOINS RAILS W/ STILES + (35)	6063-T6
22	TAPCON (ITW/BUILDEX) CONCRETE ANCHOR	1/4" Ø - SEE GENERAL NOTE 9 ON SHEET 1	STEEL
22A	TEK SCREW (ITW/BUILDEX)	1/4" Ø - SEE GENERAL NOTE 9 ON SHEET 1	STEEL
23	EXTRUDED HINGES	3 1/2" X 7 3/4" POWDER COATED W/ (6) #10-20x7/16" F.H. S.S. MS TO FRAME & W/ (5) #10-24x7/16" F.H. S.S. MS TO DOOR PANEL	6063-T6
24	GLAZING BULB	0.250"x0.345" (ULTRAFAB)	VINYL
25	FIN SEAL PILE W/ PLASTIC	ULTRAFAB	
26	SEAL WEATHER STRIPPING	PRO-LON	FOAM
27	SHOOT BOLT	TOP & BOTTOM 3/8Ø x2" (2) REQ'D @ ACTIVE +(2) REQ'D @ INACTIVE. PENETRATE 2" MIN. INTO HD/SILL	STEEL
27A	SHOOT BOLT GUIDE	TOP & BOTTOM SEE DETAIL SHEET 24. 1 1/2" x 1 1/2" x 1/8" x 0'-1 1/2", 6063-T6 ALUMINUM ANGLE	ALUMINUM
28	1/4" DRIVE ROD TOP & BOTTOM		ALUMINUM
29	3 POINT LOCK ACTIVE HANDLE W/ MECHANISM & RODS W/ CYLINDER, LATCH & DEAD BOLT STRIKE, LEVER COMPRESSION LOCK MANUFACTURED BY ASSA ABLOY		
29A	2 POINT LOCK ACTIVE HANDLE W/ MECHANISM & RODS W/ INSTALLATION AT (2) #8-32 x 7/16" SCREWS PER PANEL & TWIN BOLT LOCK W/ (1) #8-32 x 7/16" SCREW PER PANEL MANUFACTURED BY ASSA ABLOY		
30	STRUCTURAL SILICONE DOW CORNING 995	ALL AROUND GLASS	SILICONE
31	NON STRUCTURAL SILICONE DOW CORNING CONTRACTORS CONCRETE SEALANT (CCS)	AS SHOWN	SILICONE
32	BUMPER SPHEAR		SILICONE
33	FLUSH BOLT	HARDWARE ASSA ABLOY, 7 mm ROD W/ (2) # 8 x 1/2" SMS TO STILE	PLATED STEEL
33A	TWO POINT LOCK SYSTEM WITH ACTIVATING LEVER TYPE HANDLE, KEY OPERATOR ON THE EXTERIOR, THUMB TURN ON THE INTERIOR WITH NO VISIBLE PRODUCT MARKINGS	38" FROM BOTTOM, ONLY USED AT ACTIVE DOOR IN DOUBLE DOORS OR AT SINGLE DOORS	PLATED STEEL
34	SETTING BLOCK		E.P.D.M.
35	CONTINUOS THREADED ROD	3/8"Ø, W/ (4) S.S. SECURITY NUTS W/ NYLON INSERT EACH DOOR PANEL (2 PER DOOR)	STEEL
38	WEEP HOLES	1/16" HIGH x 1 15/16" LONG @ THRESHOLD (2 PER DOOR)	



P.E. SEAL/SIGNATURE/DATE

[Handwritten Signature]
4/7/2023

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)

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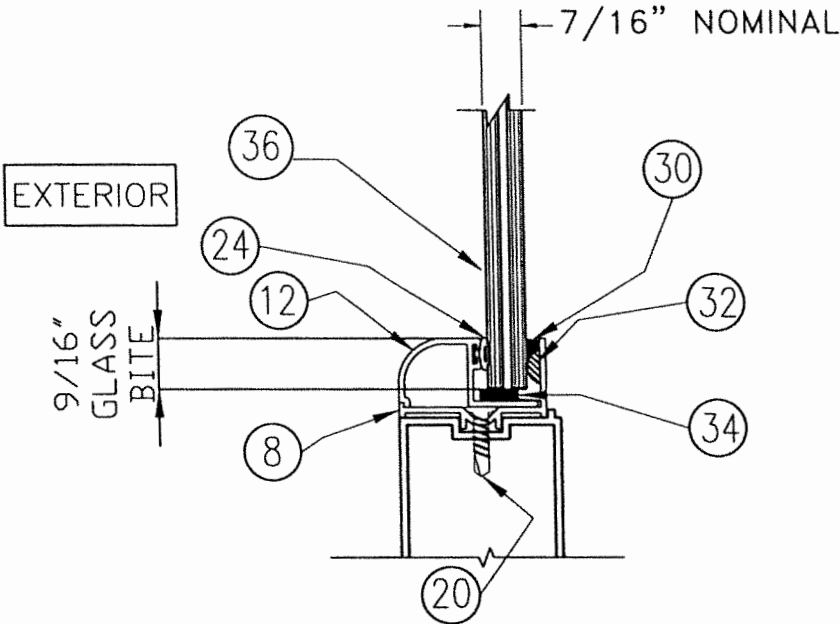
TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

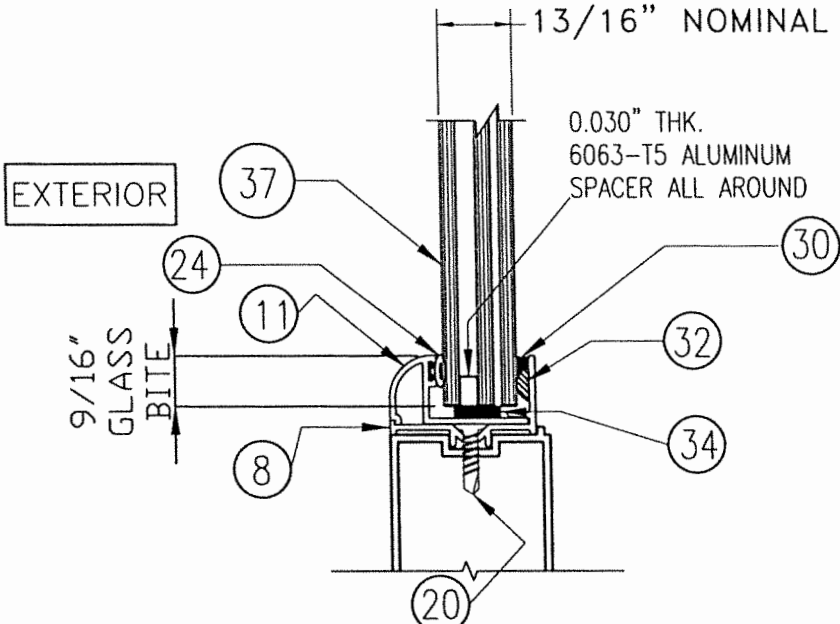
SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES			DRAWN BY W.H.	
MIAMI DADE ALUMINUM CORP.			12/07/2023	
1615 WEST 31ST PLACE HIALEAH, FL 33012			DATE	
			23-255	
			DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION
1			3	
2			4	

SHEET 3 OF 24

BILL OF MATERIALS (CONT'D)		
COMPONENT #	DESCRIPTION	MATERIAL
36	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS.	GLASS
37	13/16" INSULATED-LAMINATED GLASS W/ 3/16" TEMPERED GLASS OUT BOARD -1/4 ARGON SPACER + 3/16 H.S. + 0.090" PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. INBOARD	GLASS

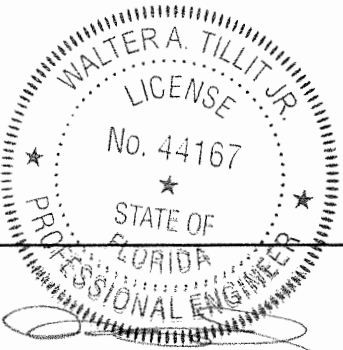


GLAZING DETAIL 1
AT 36
SCALE: 1/2"=1"



GLAZING DETAIL 2
AT 37
SCALE: 1/2"=1"

HARDWARE SCHEDULE						
OPTION #1	REQ'D HARDWARE AT DOUBLE DOORS				REQ'D HARDWARE AT SINGLE DOORS	
	AT ACTIVE DOOR		AT INACTIVE DOOR			
1	TOP / BOTTOM :	33	TOP / BOTTOM :	33	TOP / BOTTOM :	33
	AT 38" FROM BOTTOM :	33A	AT 38" FROM BOTTOM :	N/A	AT 38" FROM BOTTOM :	33A
2	TOP / BOTTOM :	29	TOP / BOTTOM :	29A	TOP / BOTTOM :	29
	AT 38" FROM BOTTOM :	29	AT 38" FROM BOTTOM :	N/A	AT 38" FROM BOTTOM :	29

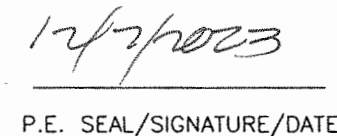


12/7/2023
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
2023 TILTECO, INC.			SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/WO TRANSOM OR SIDELITES		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		
DRAWING No					SHEET 4 OF 24

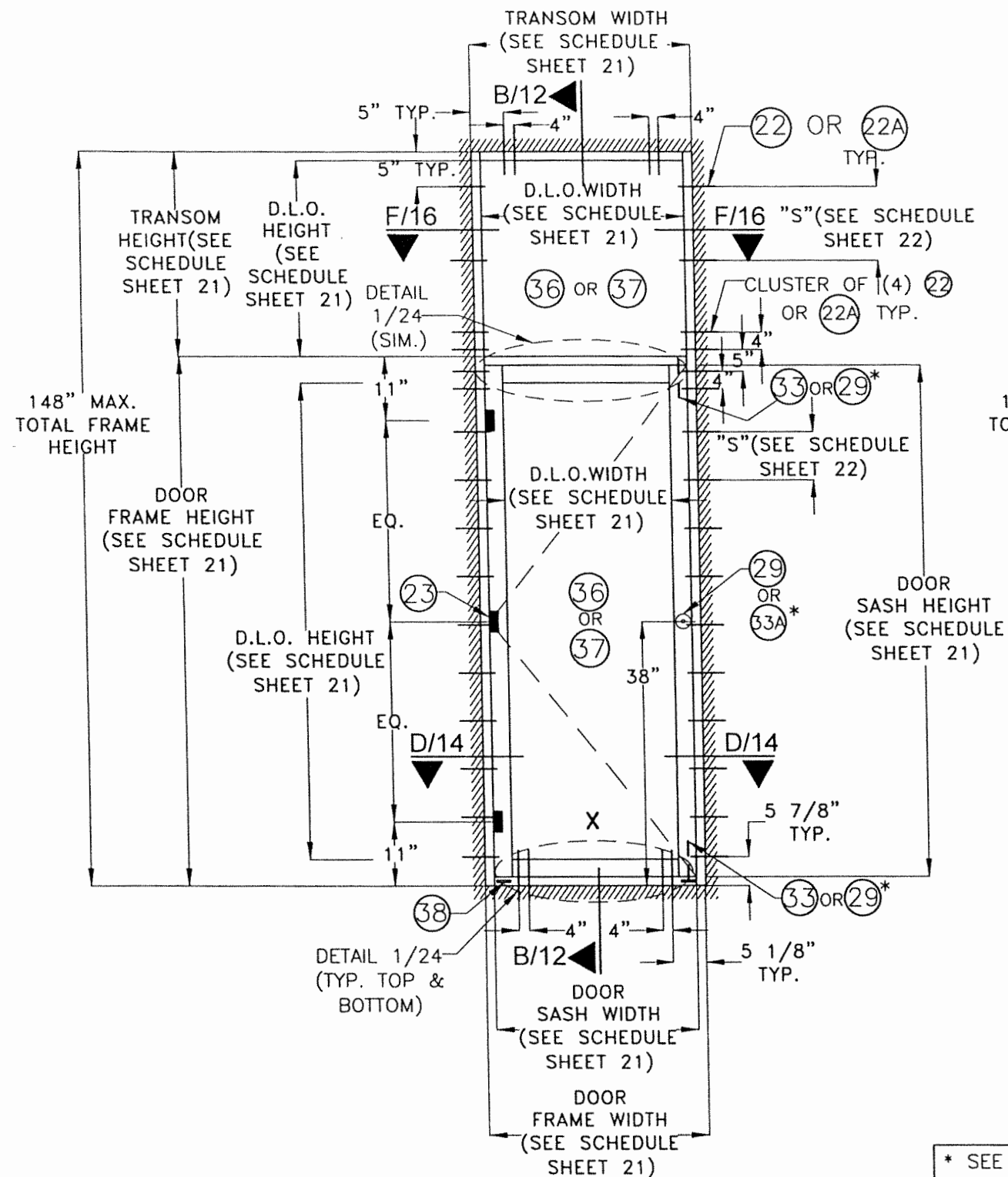
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TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR

$$3/8'' = 1' - 0''$$


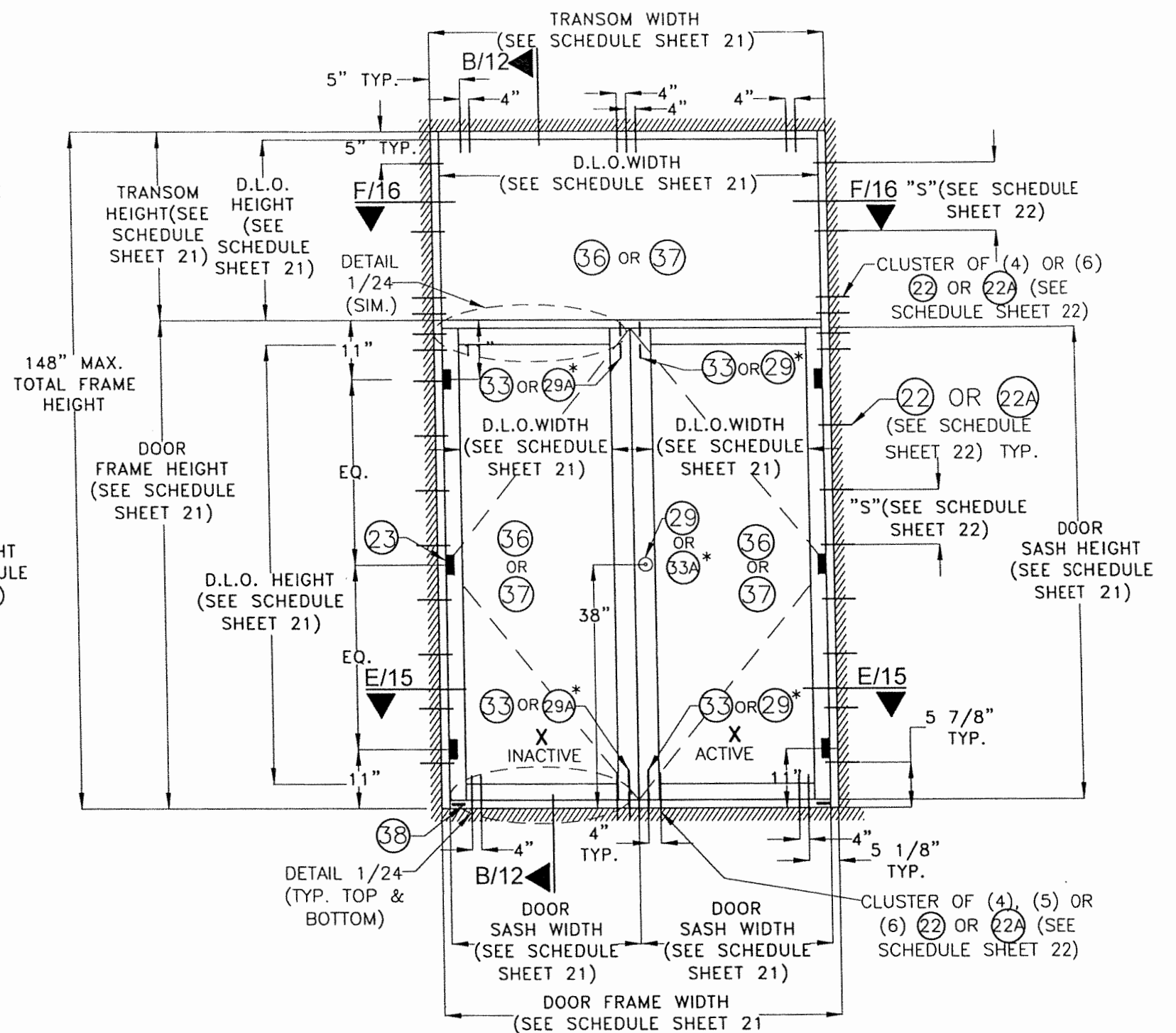
©2023 TILTECO, INC

SHEET 5 OF 24



**TYPICAL EXTERIOR ELEVATION
SINGLE DOOR W/ TRANSOM**

* SEE SCHEDULE ON SHEET 4



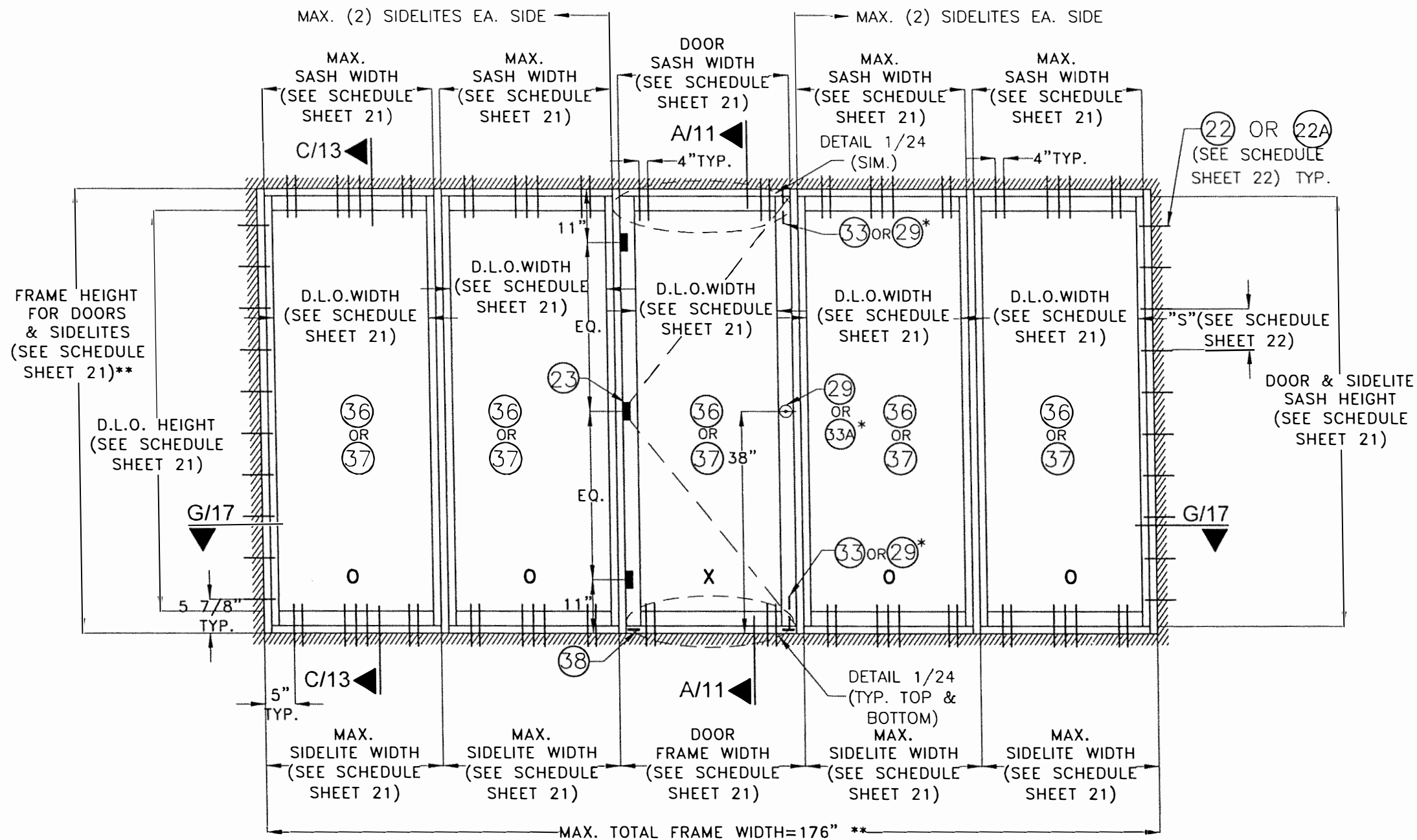
**TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR W/ TRANSOM**

TYPICAL EXTERIOR ELEVATIONS FOR SINGLE & DOUBLE DOOR W/ TRANSOM

3/8"=1'-0"

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/NO TRANSOM OR SIDELITES		
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36TH ST., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			MIAMI DADE ALUMINUM CORP. 1615 WEST 31ST PLACE HIALEAH, FL 33012		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		
DRAWN BY W.H.					12/07/2023 DATE
23-255 DRAWING No					SHEET 6 OF 24



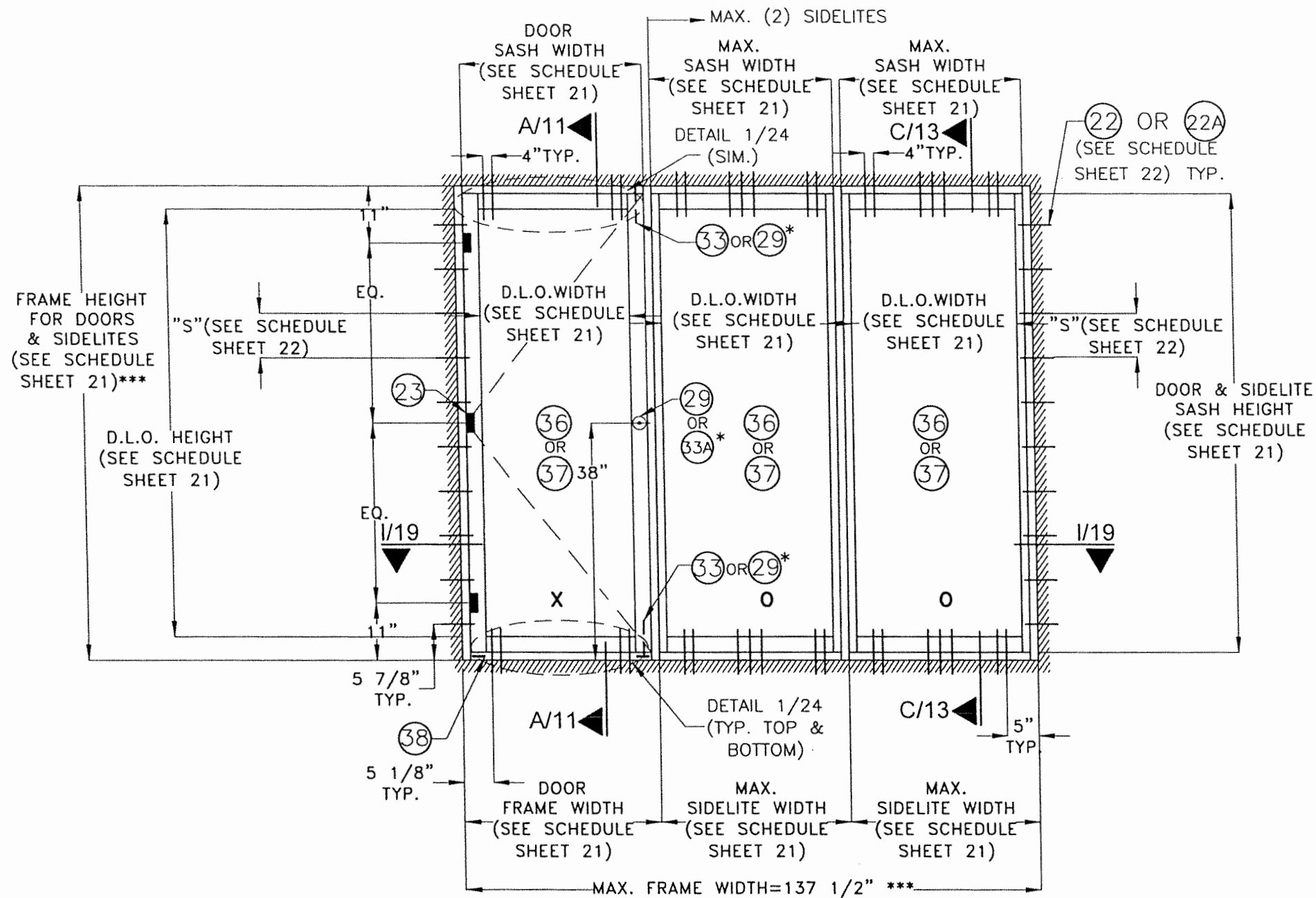
TYPICAL EXTERIOR ELEVATION OF SINGLE DOOR W/ SIDELITES

3/8"=1'

* SEE SCHEDULE ON SHEET 4
** MAX. TOTAL FRAME AREA SHALL NOT EXCEED 122.2 FT²

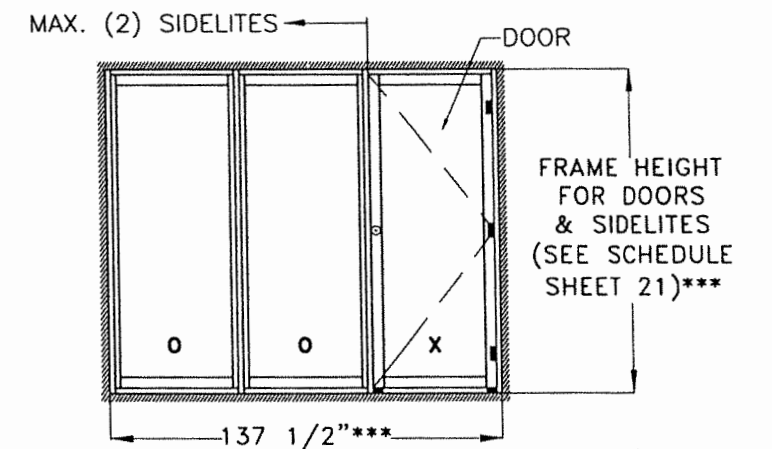
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES		
TILTECO inc.			MIAMI DADE ALUMINUM CORP.		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com			1615 WEST 31ST PLACE HALEAH, FL 33012		
CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			DRAWN BY W.H.		
			12/07/2023 DATE		
			23-255 DRAWING No		
			SHEET 7 OF 24		



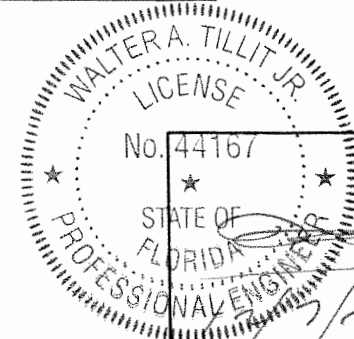
**TYPICAL EXTERIOR ELEVATION OF
SINGLE DOOR W/ SIDELITES ****

3/8"=1'-0"



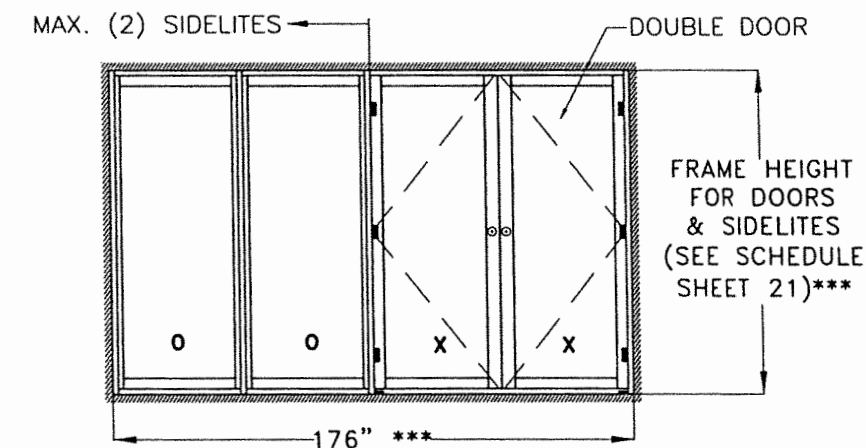
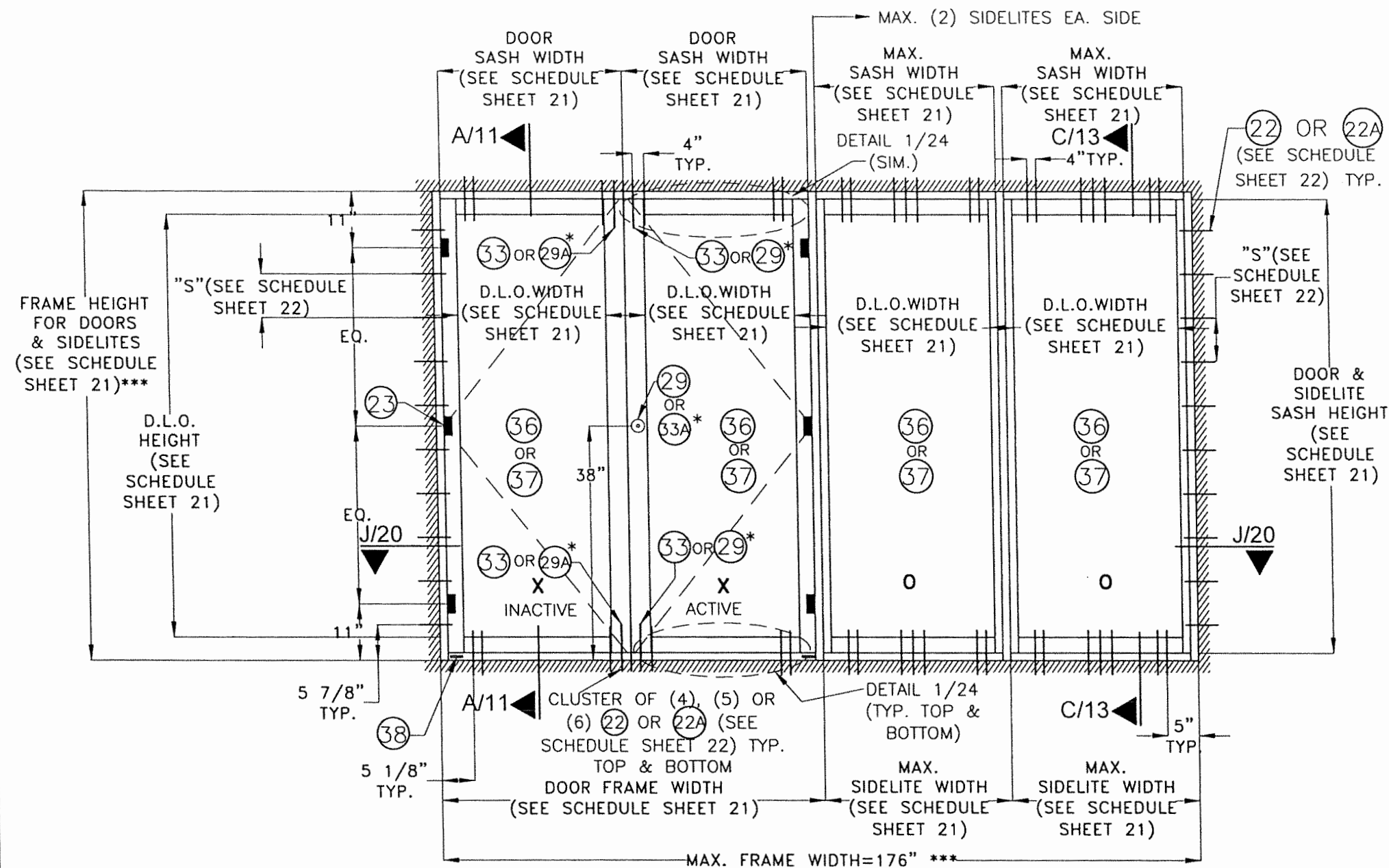
** QUALIFIES MIRROR CONFIGURATION TOO.

* SEE SCHEDULE ON SHEET 4
*** MAX. TOTAL FRAME AREA SHALL NOT EXCEED 95.5 FT²



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		
DRAWN BY W.H.					12/07/2023
DATE					23-255
DRAWING No					SHEET 9 OF 24

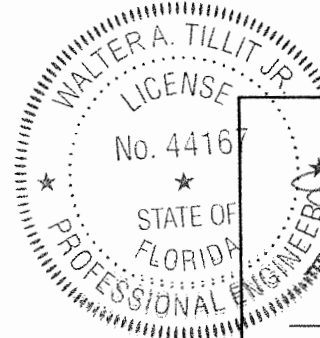


** QUALIFIES MIRROR CONFIGURATION TOO.

TYPICAL EXTERIOR ELEVATION OF DOUBLE DOOR W/ SIDELITES **

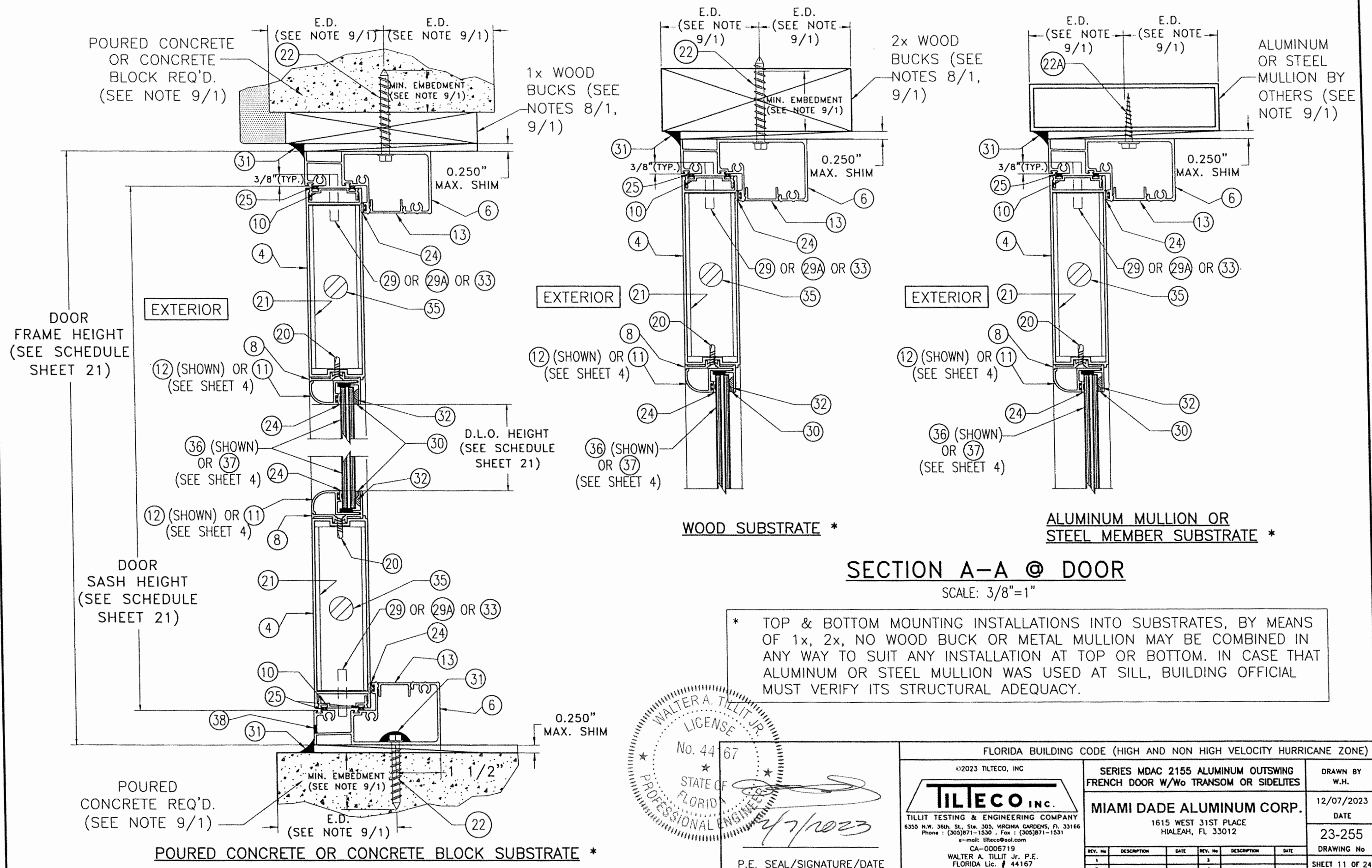
3/8"=1'-0"

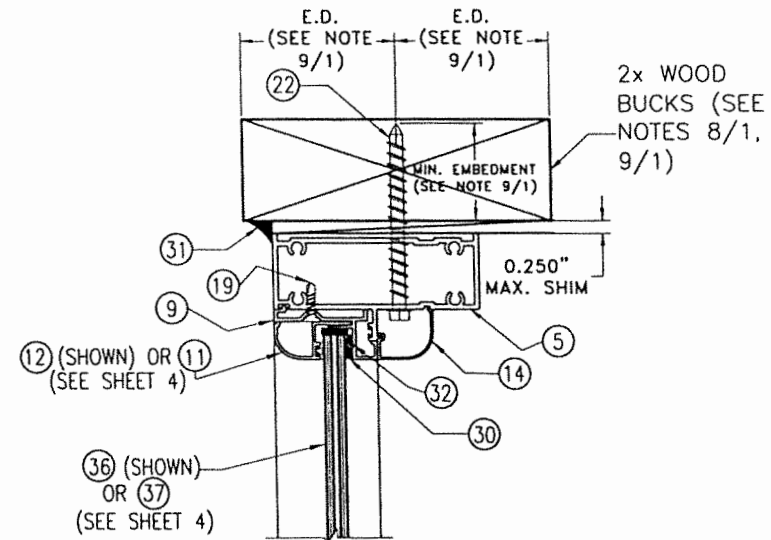
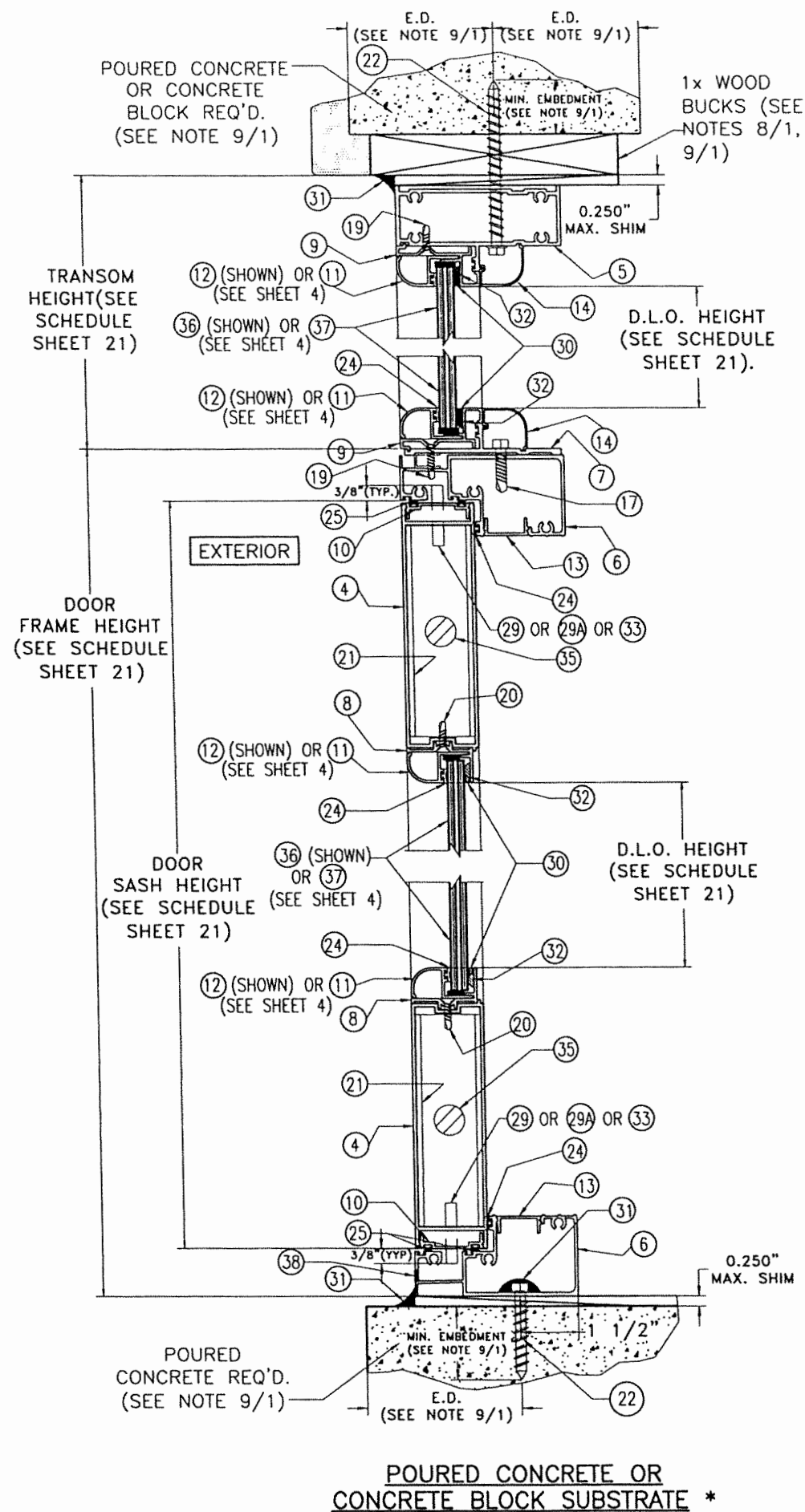
* SEE SCHEDULE ON SHEET 4
*** MAX. TOTAL FRAME AREA SHALL NOT EXCEED 122.2 FT²



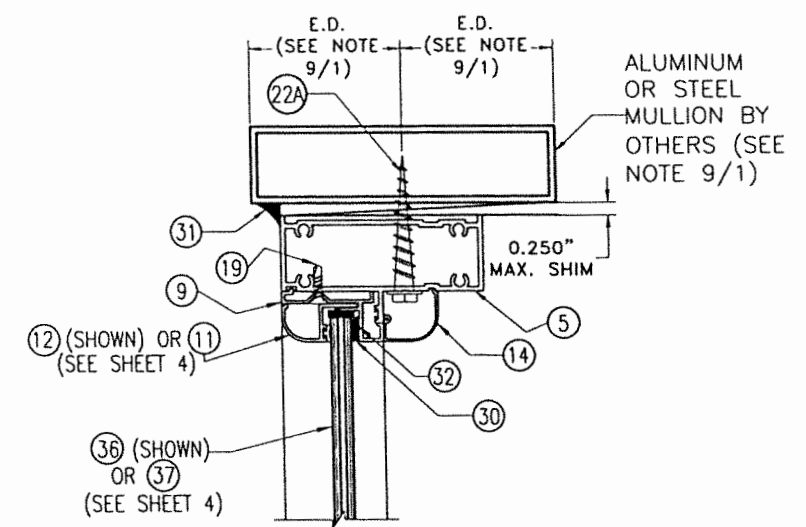
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		
DRAWN BY W.H.			DATE 12/07/2023		
DRAWING No 23-255			SHEET 10 OF 24		





WOOD SUBSTRATE *

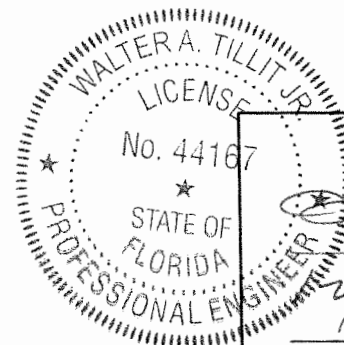


ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE *

* TOP & BOTTOM MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT TOP OR BOTTOM. IN CASE THAT ALUMINUM OR STEEL MULLION WAS USED AT SILL, BUILDING OFFICIAL MUST VERIFY ITS STRUCTURAL ADEQUACY.

SECTION B-B @ DOOR W/ TRANSOM

SCALE: 1/4"=1"



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)

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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES MDAC 2155 ALUMINUM OUTSWING
FRENCH DOOR W/WO TRANSOM OR SIDELITES

MIAMI DADE ALUMINUM CORP.

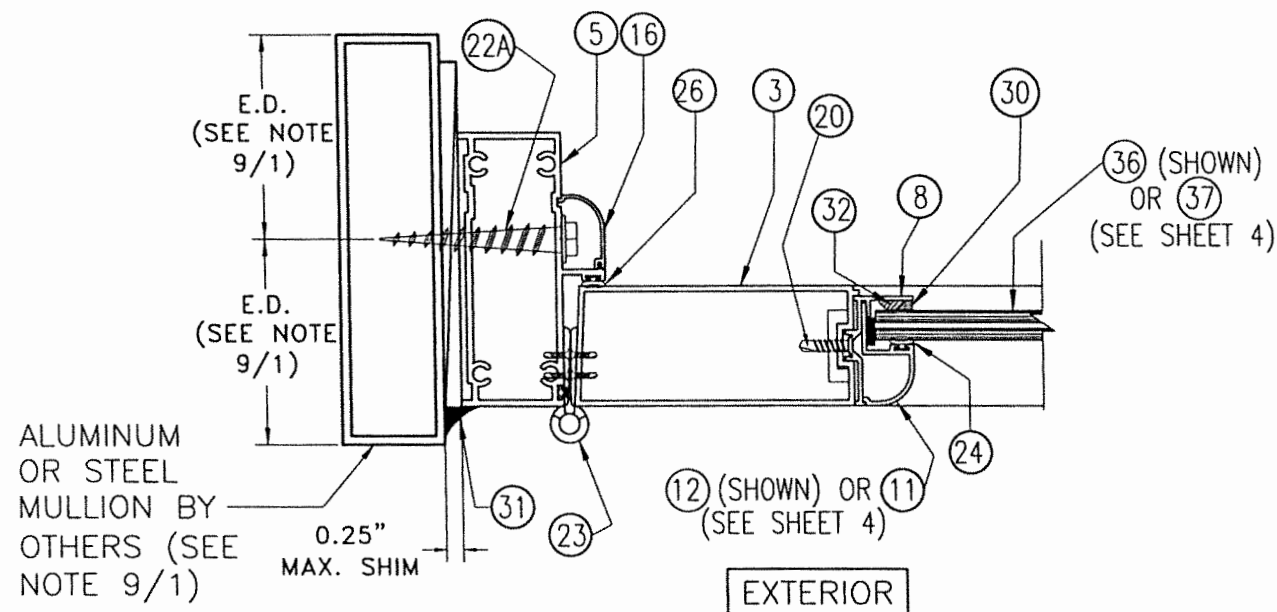
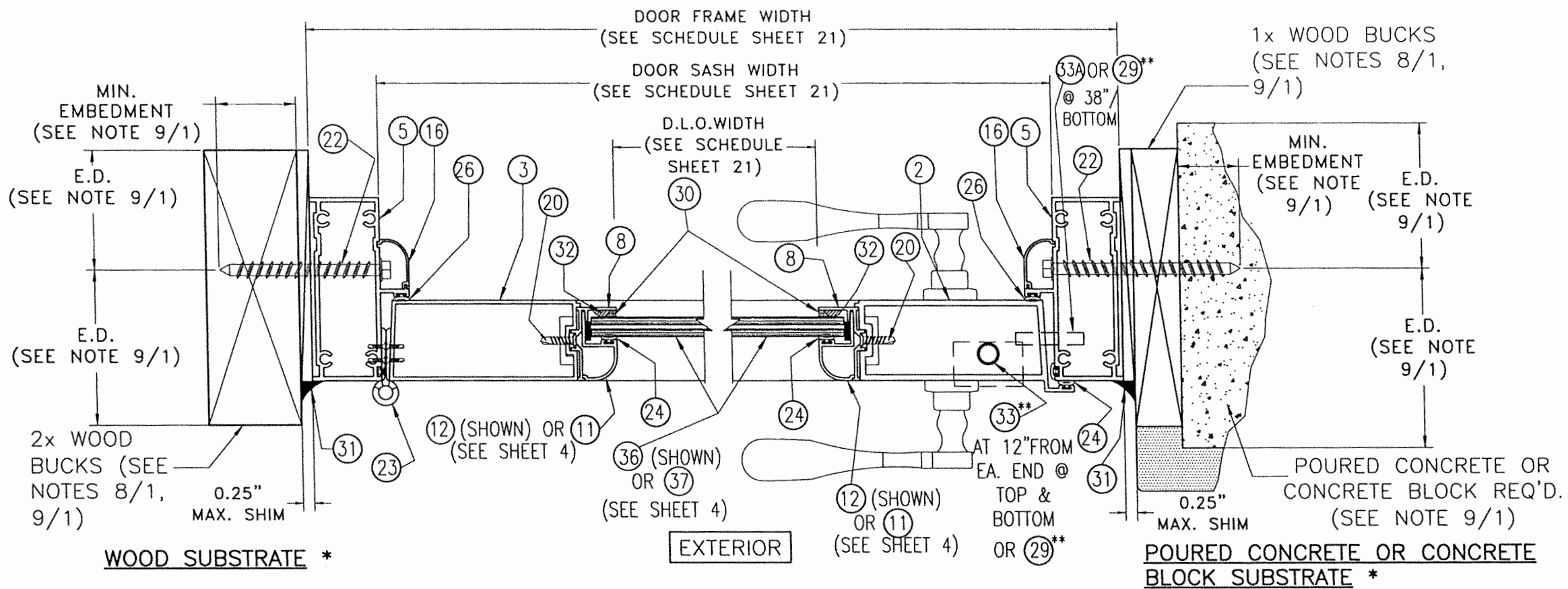
1615 WEST 31ST PLACE
HIALEAH, FL 33012

DRAWN BY
W.H.

12/07/2023
DATE

23-255
DRAWING No

SHEET 12 OF 24



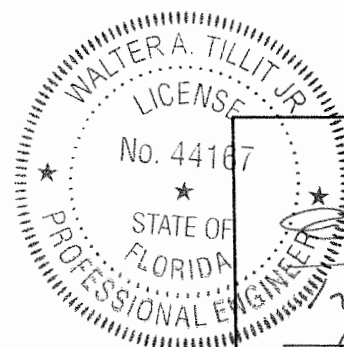
ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE *

SECTION D-D @ SINGLE DOOR

SCALE: 3/8"=1"

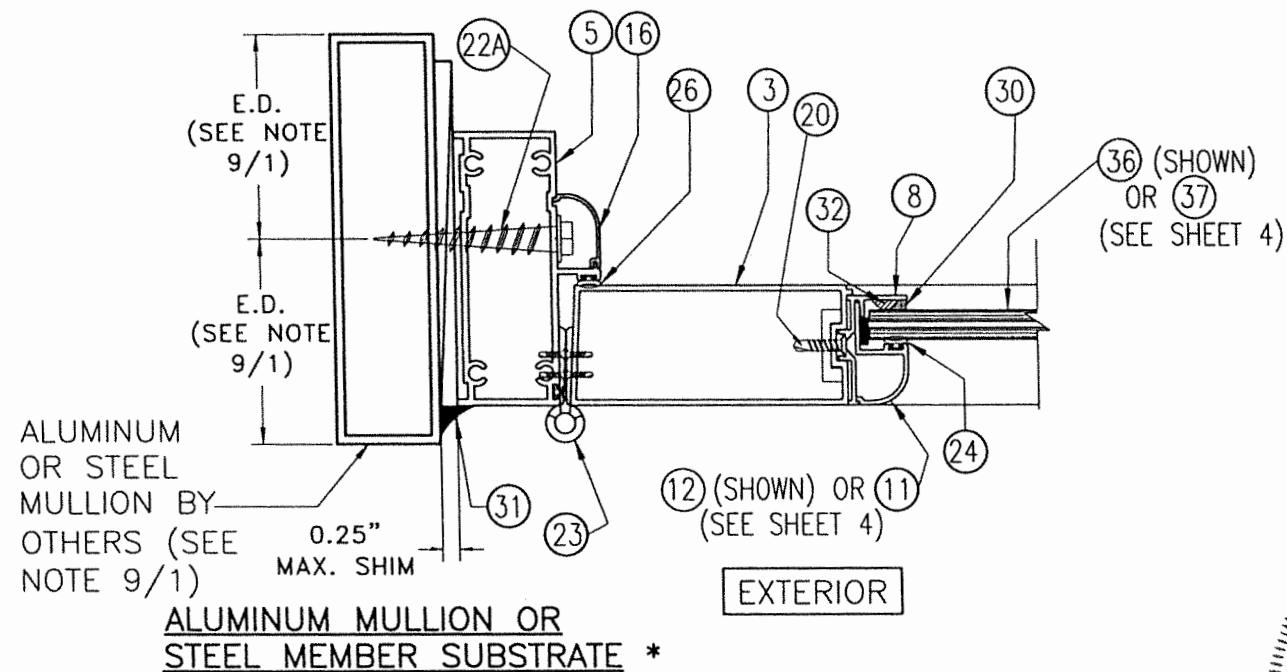
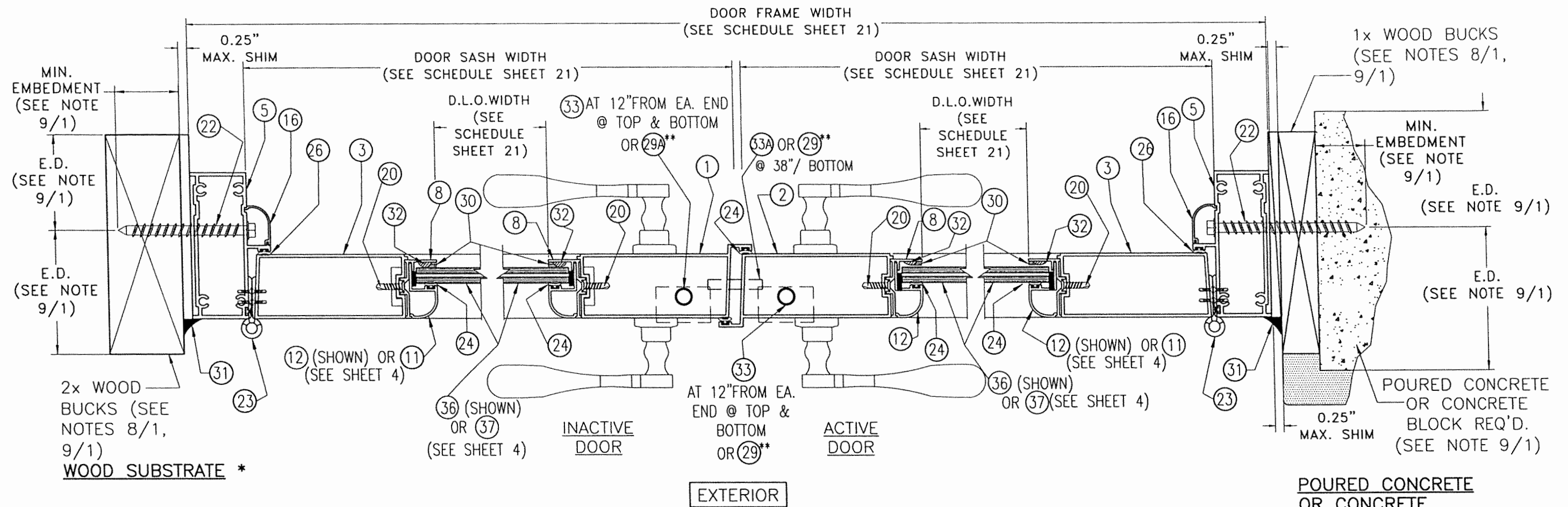
* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

** SEE SCHEDULE ON SHEET 4.



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		
DRAWN BY W.H.			12/07/2023 DATE		
23-255			DRAWING No		
SHEET 14 OF 24					

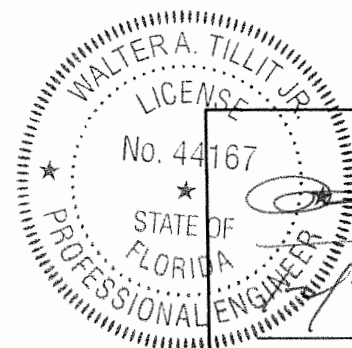


* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

** SEE SCHEDULE ON SHEET 4.

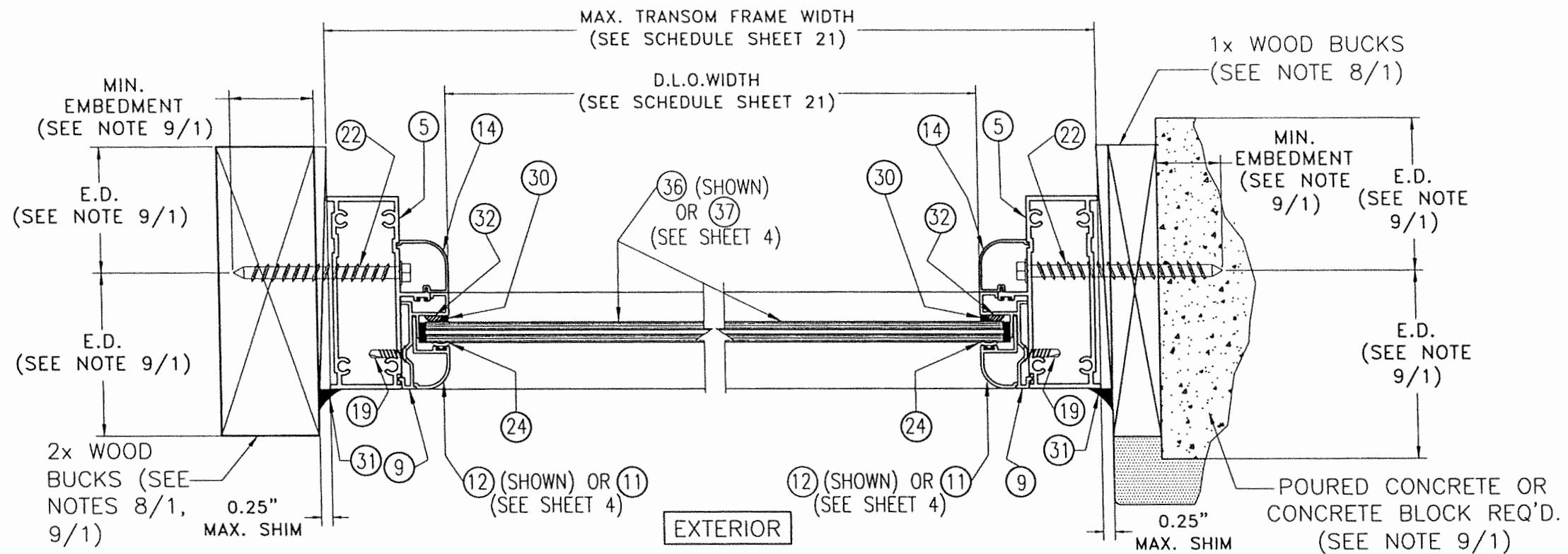
SECTION E-E @ DOUBLE DOOR

SCALE: 3/8"=1"



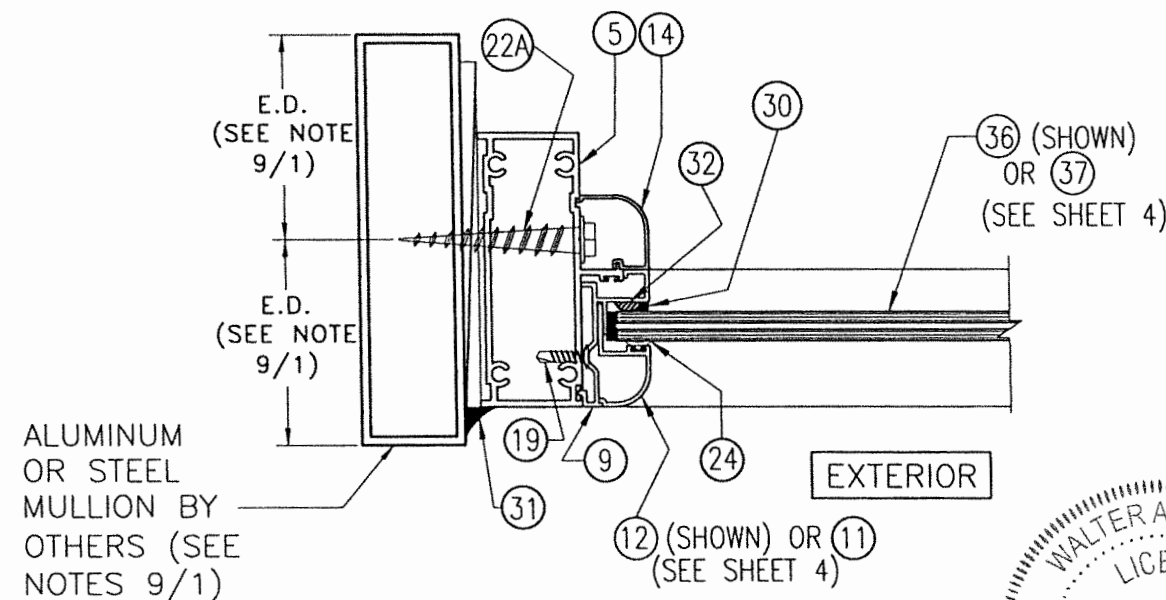
P.E. SEAL/SIGNATURE/DATE

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			2		
2			4		
DRAWN BY W.H.					12/07/2023
DATE					23-255
DRAWING No					SHEET 15 OF 24



WOOD SUBSTRATE *

POURED CONCRETE OR
CONCRETE BLOCK
SUBSTRATE *

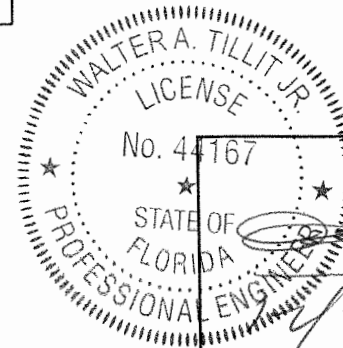


ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE *

* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

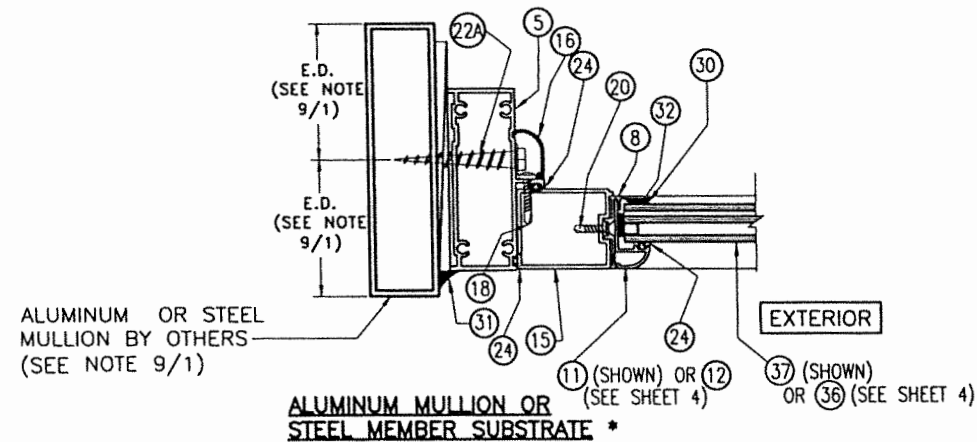
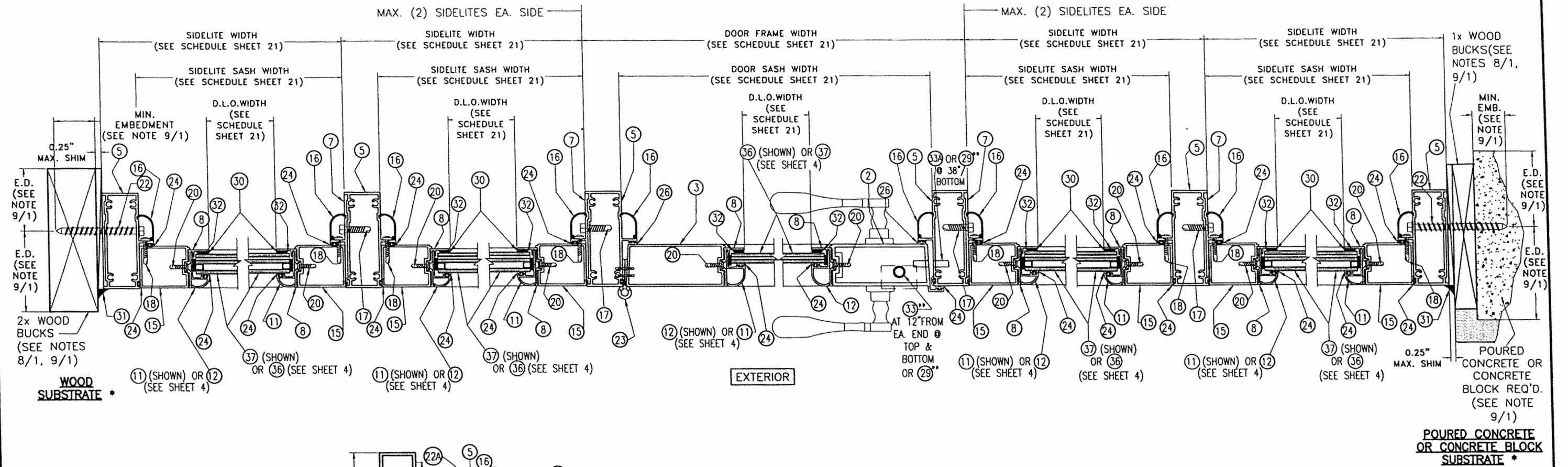
SECTION F-F @ TRANSOM

SCALE: 3/8"=1"



P.E. SEAL/SIGNATURE/DATE

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REV. No. 1 DESCRIPTION DATE			REV. No. 3 DESCRIPTION DATE		
2 DESCRIPTION DATE			4 DESCRIPTION DATE		
DRAWN BY W.H.			DATE 12/07/2023		
DRAWING No. 23-255			SHEET 16 OF 24		



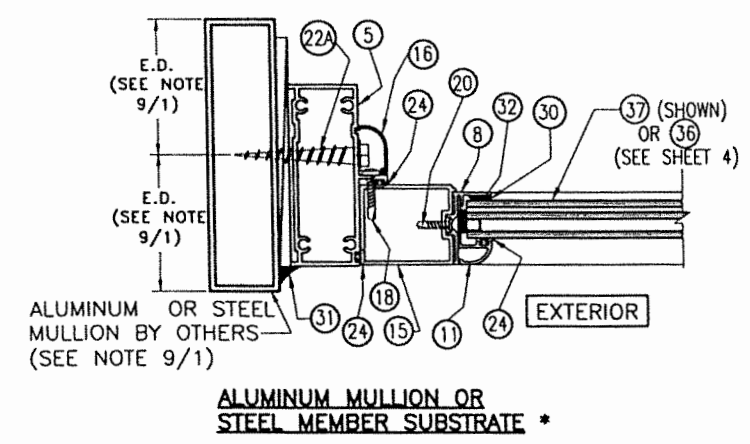
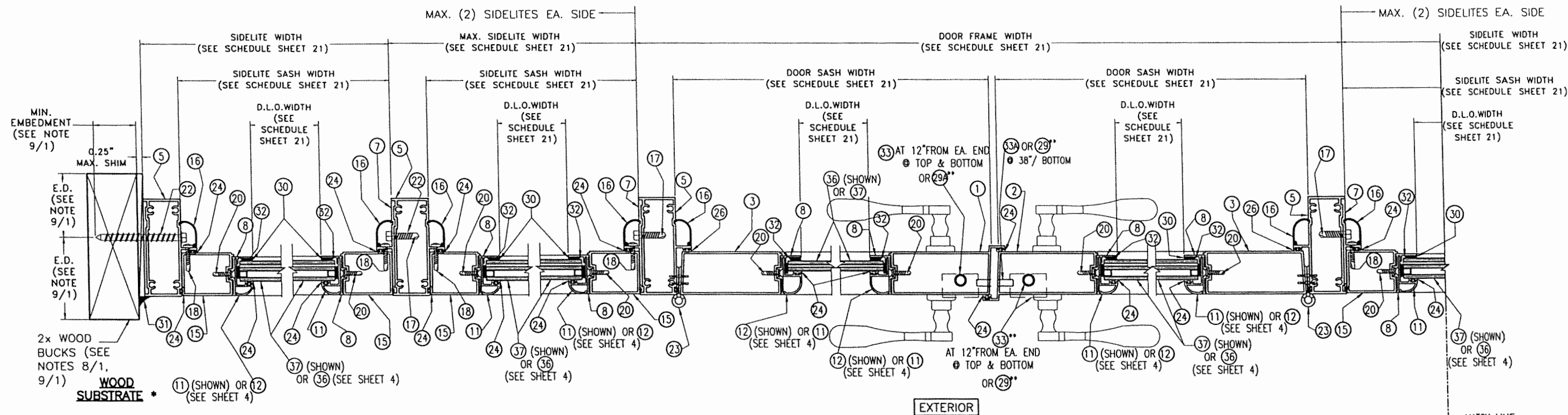
* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

** SEE SCHEDULE ON SHEET 4.

SECTION G-G SINGLE DOOR W/ SIDELITES SCALE: 1/4"=1"

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

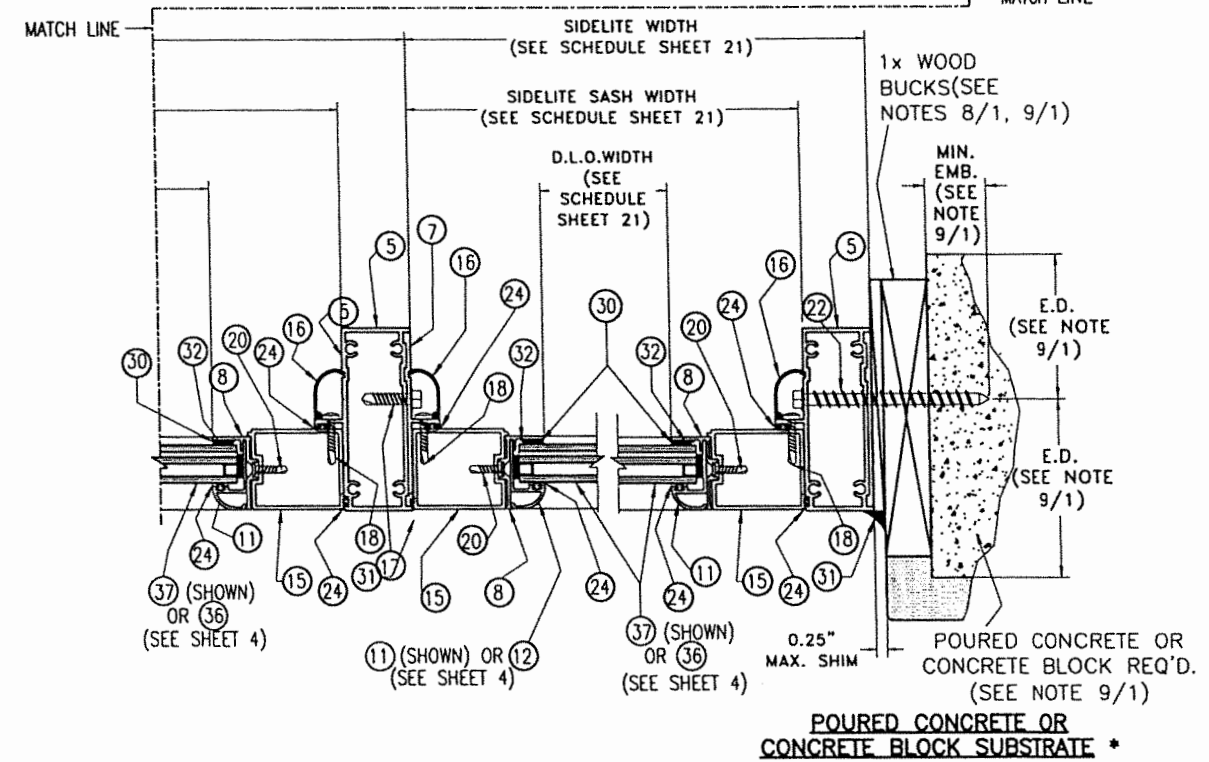
FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tiltco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES		
MIAMI DADE ALUMINUM CORP. 1615 WEST 31ST PLACE HIALEAH, FL 33012			DRAWN BY W.H. 12/07/2023 DATE 23-255 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		



* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

** SEE SCHEDULE ON SHEET 4.

EXTERIOR

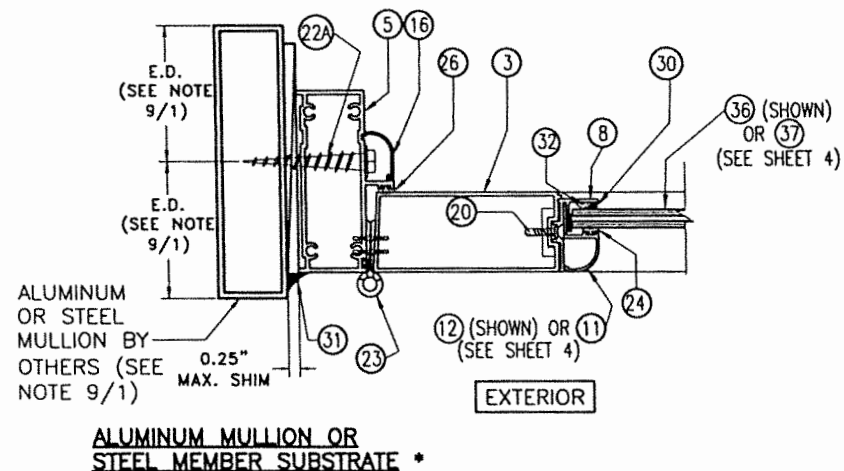
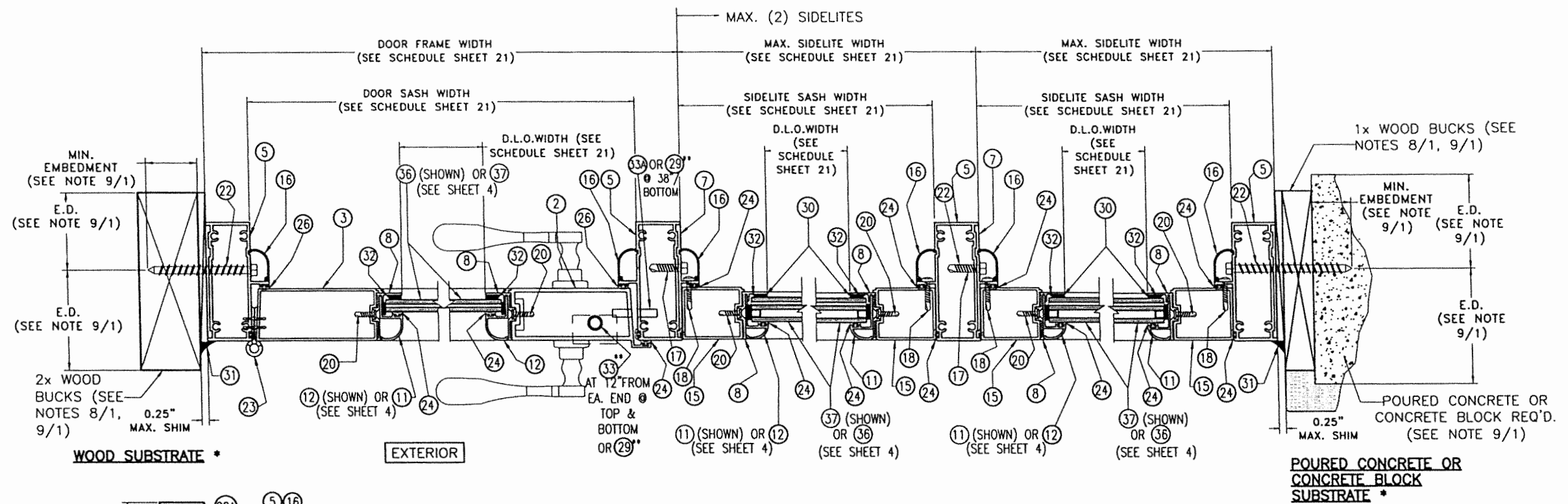


SECTION H-H DOUBLE DOOR W/ SIDELITES SCALE: 1/4"=1"

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

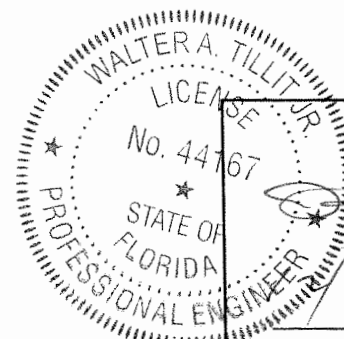
FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			MIAMI DADE ALUMINUM CORP. 1615 WEST 31ST PLACE HIALEAH, FL 33012		
SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/WO TRANSOM OR SIDELITES			DRAWN BY W.H.		
DATE 12/07/2023			DRAWING No 23-255		
SHEET 18 OF 24					



* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

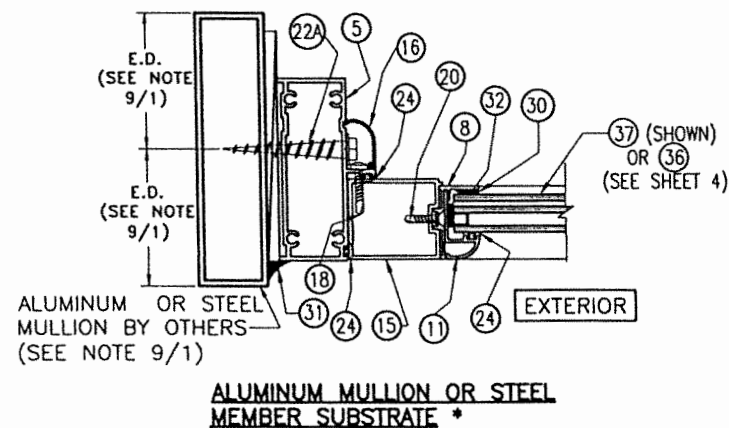
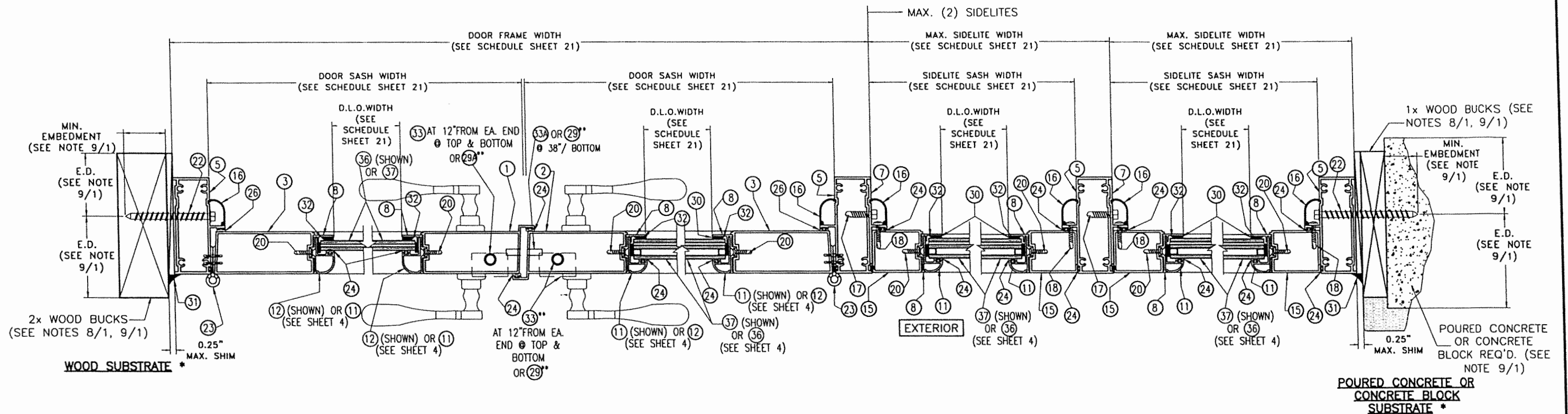
** SEE SCHEDULE ON SHEET 4.

SECTION I-I SINGLE DOOR W/ SIDELITES SCALE: 1/4"=1"



P.E. SEAL/SIGNATURE/DATE

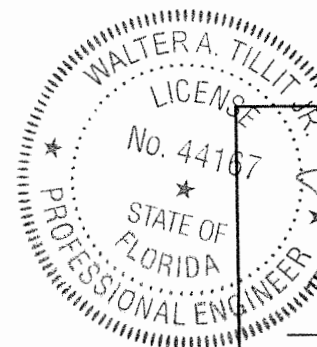
FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES		
TILTECO INC.			MIAMI DADE ALUMINUM CORP.		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 e-mail: tiltco@aol.com			1615 WEST 31ST PLACE HIALEAH, FL 33012		
CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			DRAWN BY W.H.		
			12/07/2023		
			DATE		
			23-255		
			DRAWING No		
			SHEET 19 OF 24		



- * JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.
- ** SEE SCHEDULE ON SHEET 4.

SECTION J-J DOUBLE DOOR W/ SIDELITES

SCALE: 1/4"=1"



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			DRAWN BY W.H.		
TILTECO INC.			DATE		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 e-mail: tiltco@aol.com			23-255		
CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			DRAWING No		
SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES			SHEET 20 OF 24		
MIAMI DADE ALUMINUM CORP. 1615 WEST 31ST PLACE HIALEAH, FL 33012					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			2		
2			3		

SINGLE & DOUBLE DOOR SCHEDULE ONLY VALID
FOR DOORS W/O TRANSOM AND W/O SIDELITE

MAX. ASD DESIGN PRESSURE RATING	MAX. DOOR FRAME WIDTH		MAX. DOOR FRAME HEIGHT	MAX. DOOR SASH WIDTH *	MAX. DOOR SASH HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT
	AT SINGLE DOOR	AT DOUBLE DOOR					
+45, -45 psf	3'-5 1/2"	6'-8"	10'-0"	3'-2 1/2"	9'-9 1/2"	2'-4"	8'-8"
+49, -49 psf	3'-5 1/2"	6'-8"	9'-8"	3'-2 1/2"	9'-5 1/2"	2'-4"	8'-4"
+54, -54 psf	3'-5 1/2"	6'-8"	9'-4"	3'-2 1/2"	9'-1 1/2"	2'-4"	8'-0"
+57, -57 psf	3'-5 1/2"	6'-8"	9'-0"	3'-2 1/2"	8'-9 1/2"	2'-4"	7'-8"
+60, -60 psf	3'-5 1/2"	6'-8"	8'-8"	3'-2 1/2"	8'-5 1/2"	2'-4"	7'-4"
+70, -70 psf	3'-5 1/2"	6'-8"	8'-4"	3'-2 1/2"	7'-7 5/8"	2'-4"	7'-0"

* DOOR SASH WIDTHS MAY BE DIFFERENT FROM EACH OTHER WHEN DOUBLE DOORS ARE USED.

SINGLE & DOUBLE DOOR SCHEDULE VALID
FOR DOORS W/ TRANSOM OR W/ SIDELITE

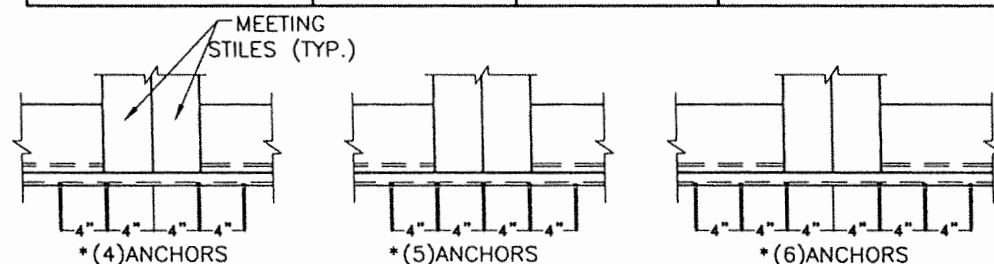
MAX. ASD DESIGN PRESSURE RATING +70, -70 psf	MAX. FRAME WIDTH	MAX. FRAME HEIGHT	MAX. SASH WIDTH	MAX. SASH HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT
AT SINGLE DOOR	3'-5 1/2"	8'-4"	3'-2 1/2"	7'-7 5/8"	2'-4"	7'-0"
AT DOUBLE DOOR	6'-8"	8'-4"	3'-2 1/2"	7'-7 5/8"	2'-4"	7'-0"
AT SIDELITE	4'-0"	8'-4"	3'-10 1/2"	7'-7 5/8"	3'-4"	7'-0"
AT SINGLE DOOR TRANSOM	3'-5 1/2"	4'-0"	-	-	3'-0 1/2"	3'-7"
AT DOUBLE DOOR TRANSOM	6'-8"	4'-0"	-	-	6'-3"	3'-7"

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			SERIES MDAC 2155 ALUMINUM OUTSWING FRENCH DOOR W/W _o TRANSOM OR SIDELITES		DRAWN BY W.H.
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 303, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			MIAMI DADE ALUMINUM CORP.		12/07/2023 DATE
			1615 WEST 31ST PLACE HIALEAH, FL 33012		23-255 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
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					SHEET 21 OF 24

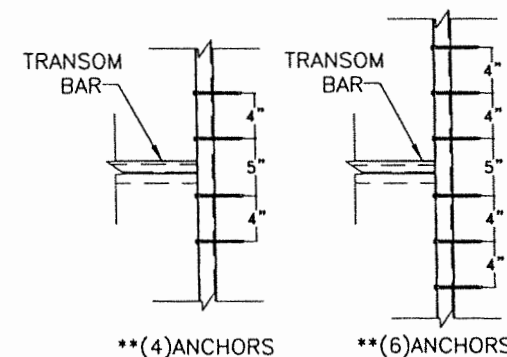
**REQ'D NUMBER OF ANCHORS & CORRESPONDING ASD
DESIGN PRESSURE RATING AT HEAD/SILL: CLUSTER OF
ANCHORS AT DOUBLE DOOR, AT MEETING STILES ***

ASD DESIGN PRESSURE RATING	MAX. DOOR FRAME WIDTH	MAX. DOOR FRAME HEIGHT	SUBSTRATE
			CONCRETE, BLOCK, WOOD, ALUM., STEEL
+45, -45 psf	6'-8"	8'-4"	4 ANCHORS
+45, -45 psf	6'-8"	10'-0"	5 ANCHORS
+49, -49 psf	6'-8"	9'-8"	5 ANCHORS
+54, -54 psf	6'-8"	9'-4"	6 ANCHORS
+57, -57 psf	6'-8"	9'-0"	6 ANCHORS
+60, -60 psf	6'-8"	8'-8"	6 ANCHORS
+70, -70 psf	6'-8"	8'-4"	6 ANCHORS



**REQ'D NUMBER OF ANCHORS AT CLUSTER OF ANCHORS AT ENDS OF TRANSOM
BAR WITH DOUBLE DOOR & CORRESPONDING ASD DESIGN PRESSURE RATING ****

ASD DESIGN PRESSURE RATING	MAX. TRANSOM WIDTH	MAX. DOOR FRAME HEIGHT	TRANSOM HEIGHT	SUBSTRATE
				CONCRETE, BLOCK, WOOD, ALUM., STEEL
+45, -45 psf	6'-8"	8'-4"	2'-0"	4 ANCHORS
			3'-0"	4 ANCHORS
			4'-0"	4 ANCHORS
+55, -55 psf	6'-8"	8'-4"	2'-0"	4 ANCHORS
			3'-0"	4 ANCHORS
			4'-0"	6 ANCHORS
+70, -70 psf	6'-8"	8'-4"	2'-0"	4 ANCHORS
			3'-0"	4 ANCHORS
			4'-0"	6 ANCHORS

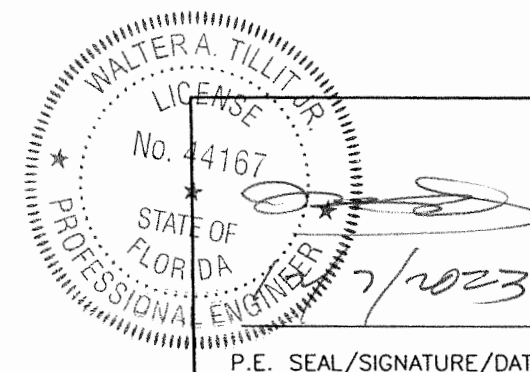
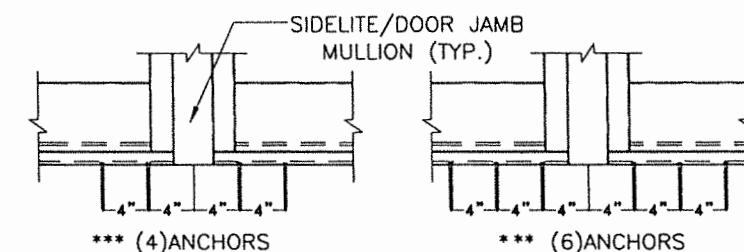


**MAXIMUM ANCHOR SPACING "S" & CORRESPONDING ASD DESIGN
PRESSURE RATING SCHEDULE AT JAMBS OF DOOR, SIDELITE & TRANSOM**

SUBSTRATE	ANCHOR TYPE	A.S.D. DESIGN PRESSURE RATING (psf)	"S"
CONCRETE	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
BLOCK	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
WOOD	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
ALUMINUM TUBE OR STEEL MEMBER	1/4"Ø-14 ITW/BUILDEX TEK SCREW (22A)	+70.0, -70.0	11" O.C.

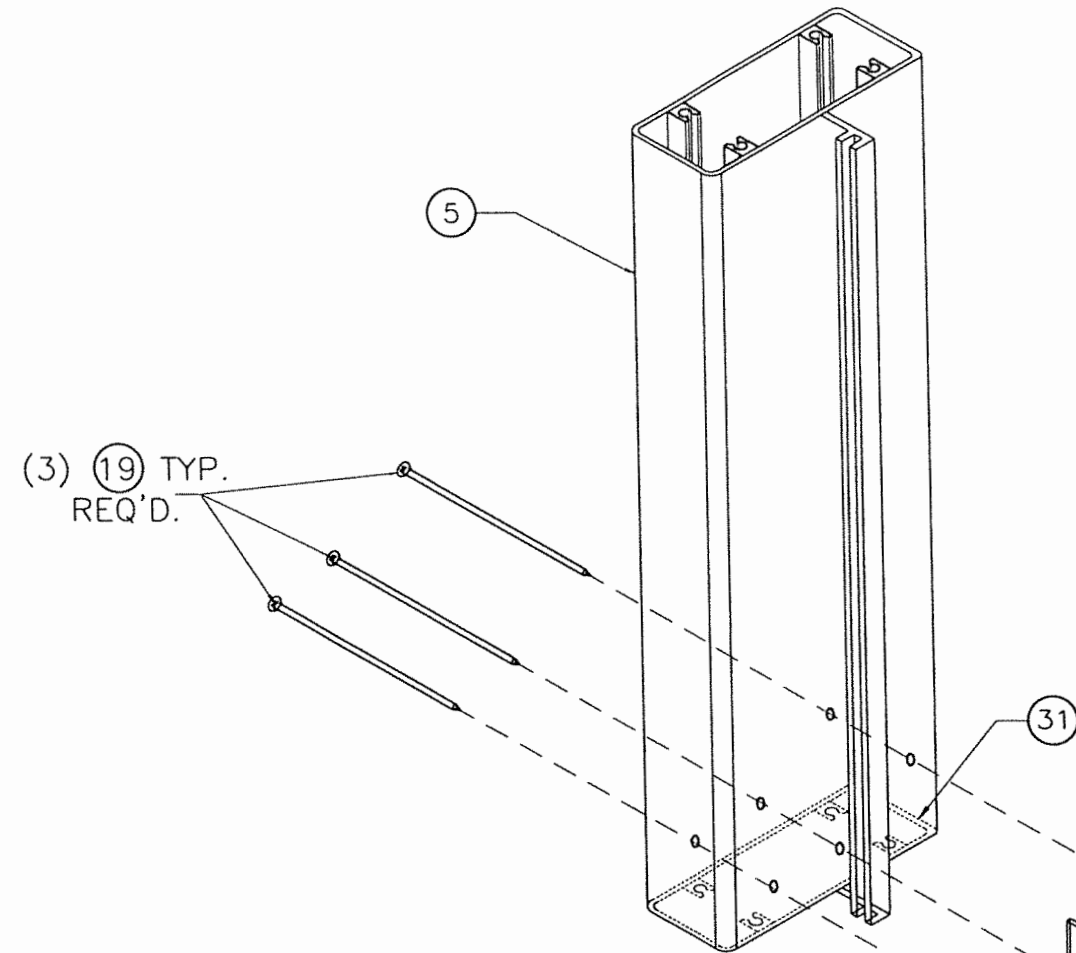
**REQ'D NUMBER OF ANCHORS AT HEAD & SILL: CLUSTER
OF ANCHORS AT SIDELITE & DOOR JAMB MULLIONS &
CORRESPONDING ASD DESIGN PRESSURE RATING *****

ASD DESIGN PRESSURE RATING	SUBSTRATE
	CONCRETE, BLOCK, WOOD, ALUM., STEEL
UP TO +67.5, -67.5 psf	4 ANCHORS
> +67.5, -67.5 psf UP TO +70, -70 psf	6 ANCHORS



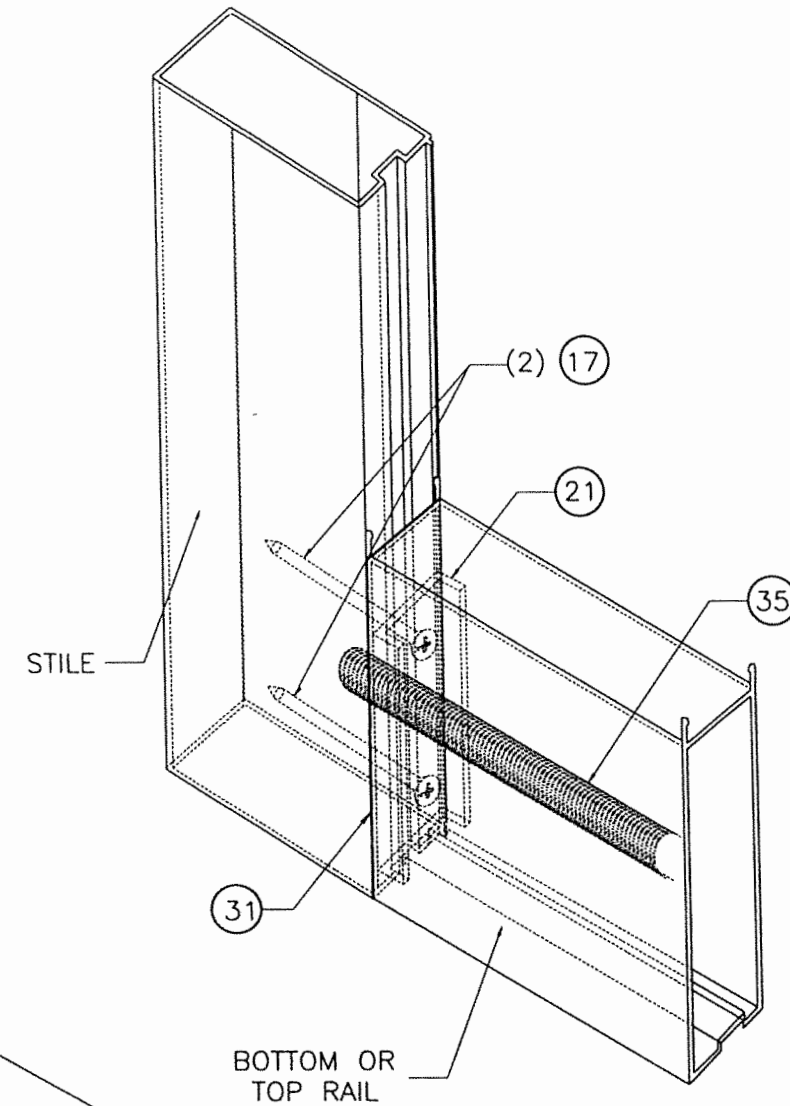
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TILTECO INC.			12/07/2023		
TILLIT TESTING & ENGINEERING COMPANY			DATE		
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Phone : (305)871-1530 . Fax : (305)871-1531			DRAWING No		
e-mail: tilteco@aol.com			SHEET 22 OF 24		
CA-0006719			REV. No	DESCRIPTION	DATE
WALTER A. TILLIT Jr. P.E.			1		
FLORIDA Lic. # 44167			2		
			3		
			4		



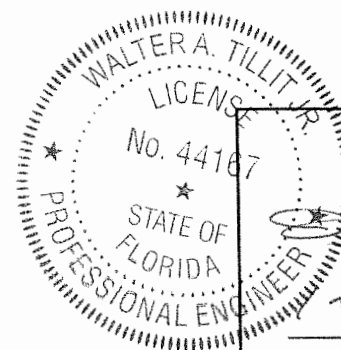
**FRAME CORNER DETAIL
(ISOMETRIC).**

N. T. S.



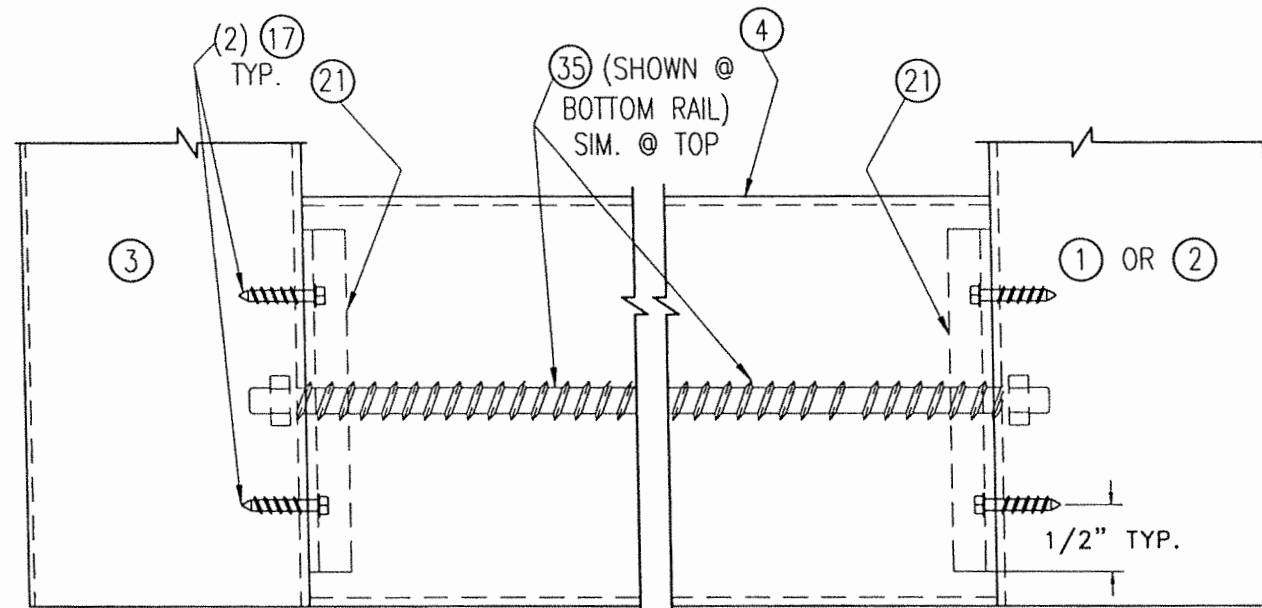
**DOOR PANEL & PANEL
CORNER DETAIL
(ISOMETRIC).**

N. T. S.

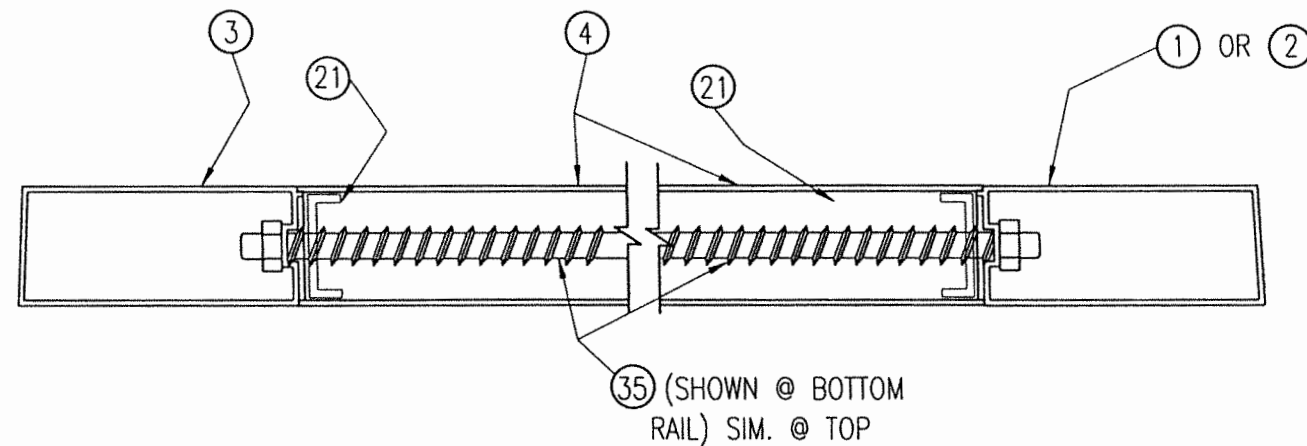


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DRAWN BY W.H. DATE 12/07/2023 DRAWING No 23-255			SHEET 23 OF 24		
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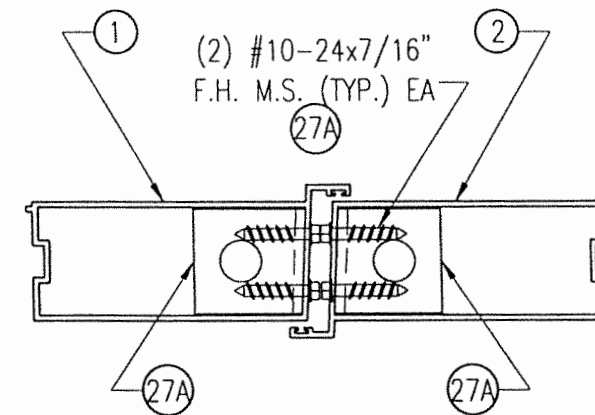
ELEVATION



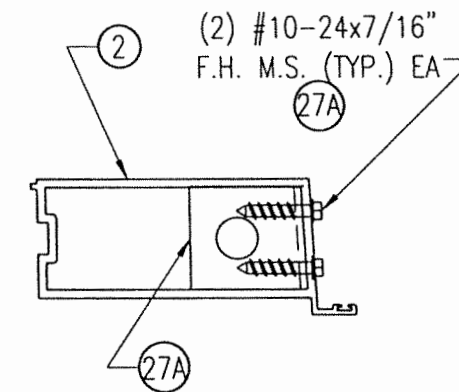
PLAN

**DETAIL 1: TOP/BOTTOM RAIL
CONNECTION TO STILES**

SCALE: 3/8"=1"



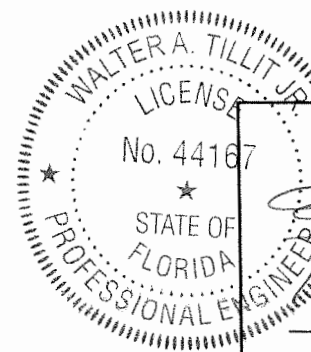
**PLAN VIEW AT ACTIVE &
INACTIVE LOCK STILE @
DOUBLE DOOR**



**PLAN VIEW AT LOCK STILE
@ SINGLE DOOR**

**SHOOT BOLT GUIDE DETAIL
AT TOP & BOTTOM STILES**

SCALE: 3/8"=1"



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12/07/2023
DATE

23-255
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