

SERIES DFD1000 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES LARGE MISSILE IMPACT RESISTANT

GENERAL NOTES:

1. SERIES DFD1000 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 DFD1000 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 BULDING 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 DFD1000 ALUMINUM OUTSWING FRENCH DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
5. THIS SERIES DFD1000 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.

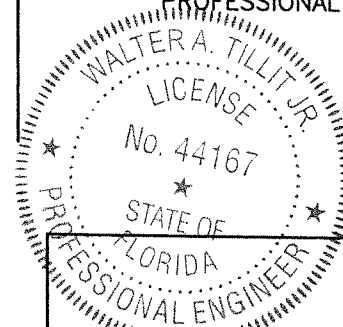
14. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

- (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.

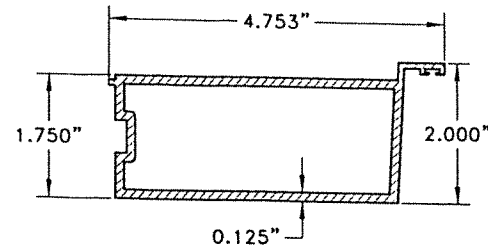
- (c) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

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

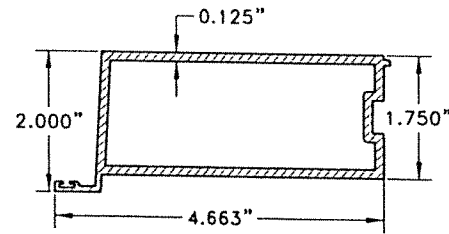


12/6/2023
P.E. SEAL/SIGNATURE/DATE

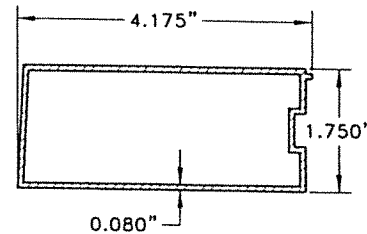
FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
TILECO INC.			SERIES DFD1000 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES		DRAWN BY W.H.
TILLIT TESTING & ENGINEERING COMPANY 6300 N.W. 30th St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone : (305)871-1530 • Fax : (305)871-1531 e-mail: tillitco@aol.com CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			DATUM SHUTTERS LLC. dba DS-WINDOWS & DOORS. 2731 VISTA PARKWAY, SUITE D-6 WEST PALM BEACH, FL 33411 WWW.DS-WINDOWS.COM		12/06/2023 DATE
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		
					DRAWING No 23-252
					SHEET 1 OF 24



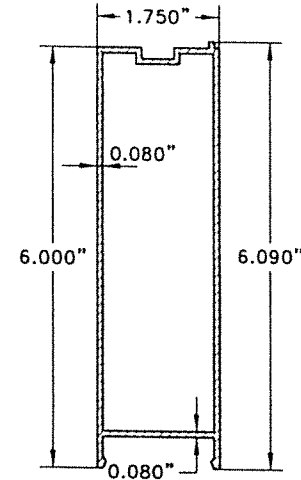
1 INACTIVE LOCK STILE
6063-T6 ALLOY



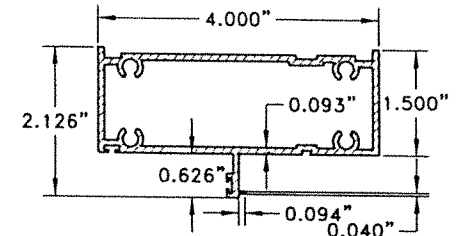
2 ACTIVE LOCK STILE
6063-T6 ALLOY



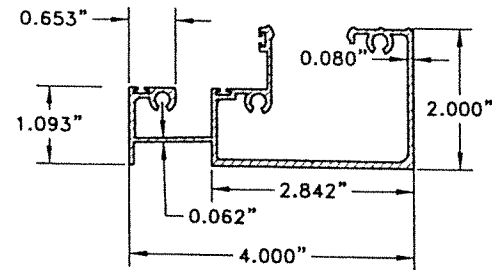
3 HINGE & LOCK STILE
6063-T6 ALLOY



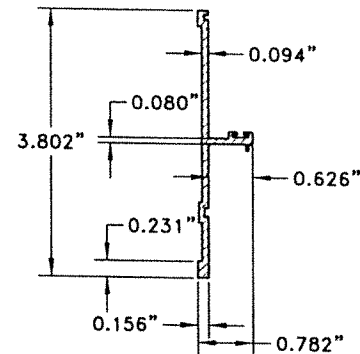
4 TOP & BOTTOM RAIL
6063-T6 ALLOY



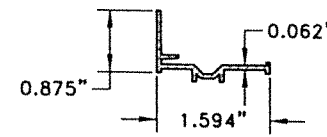
5 FRAME HEAD AND JAMB AT SIDELITE & HEAD AT DOOR W/TRANSOM OR W/O TRANSOM
6063-T6 ALLOY



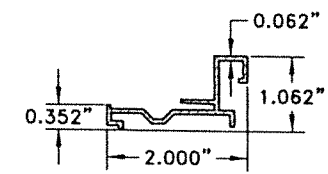
6 SILL & HEAD FRAME DOOR & SIDELITE
6063-T6 ALLOY



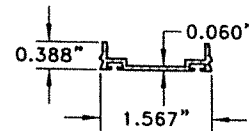
7 SIDELITE JAMB & TRANSOM INSERT
6063-T6 ALLOY



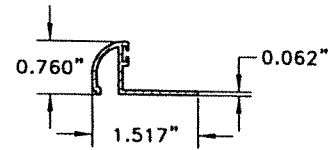
8 GLAZING ADAPTER FOR LAMINATED & LAMINATED-INSULATED GLASS
6063-T6 ALLOY



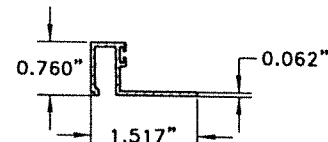
9 GLAZING ADAPTER SIDELITE & TRANSOM FOR LAMINATED & LAMINATED-INSULATED GLASS
6063-T6 ALLOY



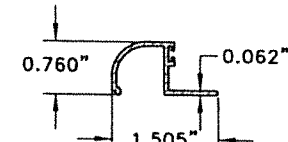
10 WEATHER STRIP ADAPTER
6063-T6 ALLOY



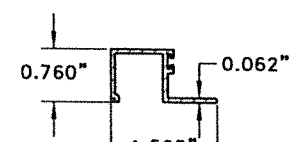
11 CURVED GLAZING BEAD FOR LAMIN. INSULAT. GLASS (37)
6063-T6 ALLOY



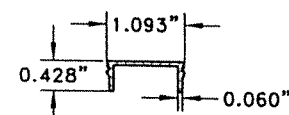
11A SQUARE GLAZING BEAD FOR LAMIN. INSULAT. GLASS (37)
6063-T6 ALLOY



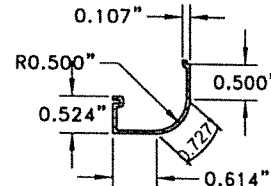
12 CURVED GLAZING BEAD FOR LAMIN. GLASS (36)
6063-T6 ALLOY



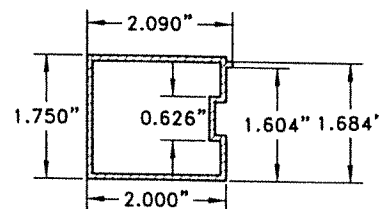
12A SQUARE GLAZING BEAD FOR LAMIN. GLASS (36)
6063-T6 ALLOY



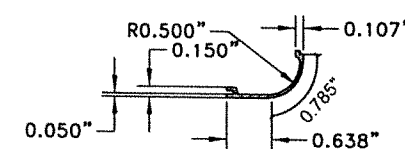
13 HEAD & SILL COVER PLATE
6063-T6 ALLOY



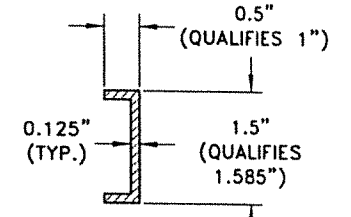
14 SCREW COVER FOR TRANSOM
6063-T6 ALLOY



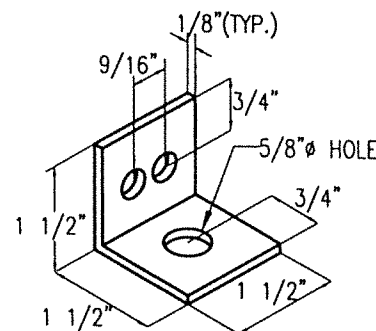
15 STILE FOR SIDELITE PANEL
6063-T6 ALLOY



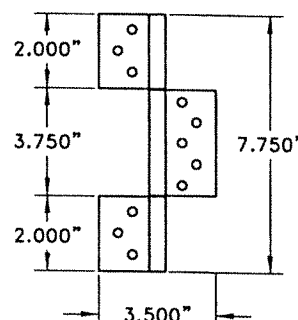
16 SCREW COVER FOR DOOR JAMB, DOOR HEAD & SIDELITE JAMB
6063-T6 ALLOY



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



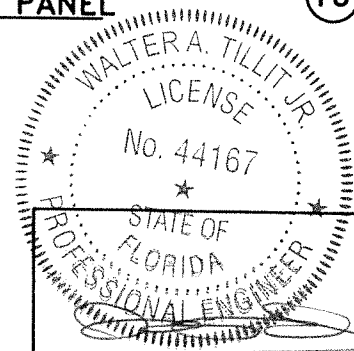
27A SHOOT BOLT GUIDE
6063-T6 ALUMINUM ANGLE



23 EXTRUDED HINGES
6063-T6 ALLOY

COMPONENTS

SCALE: N.T.S



P.E. SEAL/SIGNATURE/DATE

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

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WALTER A. TILLIT JR., P.E.
FLORIDA LIC. # 44167

SERIES DFD1000 ALUMINUM OUTSWING
FRENCH DOOR W/Wo TRANSOM OR SIDELITES

DATUM SHUTTERS LLC.
dba
DS-WINDOWS & DOORS.

2731 VISTA PARKWAY, SUITE D-6
WEST PALM BEACH, FL 33411
WWW.DS-WINDOWS.COM

DRAWN BY
W.H.

12/06/2023
DATE

23-252
DRAWING No

SHEET 2 OF 24

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			2		
2			4		

BILL OF MATERIALS			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
①	INACTIVE LOCK STILE	SEE SHEET 2	
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 AND JAMB AT SIDELITE & HEAD AT DOOR W/TRANSOM OR W/O TRANSOM	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	CURVED GLAZING BEAD FOR LAMINATED-INSULATED GLASS-13/16"	SEE SHEET 2	6063-T6
⑪A	SQUARE GLAZING BEAD FOR LAMINATED-INSULATED GLASS-13/16"	SEE SHEET 2	6063-T6
⑫	CURVED GLAZING BEAD FOR LAMINATED GLASS-7/16"	SEE SHEET 2	6063-T6
⑫A	SQUARE 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	STEEL
㉒	TAPCON (ITW/BUILDEX) CONCRETE ANCHOR	1/4" Ø - SEE GENERAL NOTE 9 ON SHEET 1	6063-T6
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		
③①	STRUCTURAL SILICONE DOW CORNING 995	ALL AROUND GLASS	SILICONE
③②	NON STRUCTURAL SILICONE DOW CORNING CONTRACTORS CONCRETE SEALANT (CCS)	AS SHOWN	SILICONE
③③	BUMPER SPHEAR		SILICONE
③④	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	CONTINUOUS THREADED ROD	3/8"Ø, W/ (4) S.S. SECURITY NUTS W/ NYLON INSERT EACH DOOR PANEL (2 PER DOOR)	STEEL
③⑥	WEEP HOLES	1/16" HIGH X 1 1/8" LONG @ THRESHOLD (2 PER DOOR)	

WALTER A. TILLIT, P.E.
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/2023
P.E. SEAL/SIGNATURE/DATE

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

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
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CA-0006719
WALTER A. TILLIT Jr. P.E.
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SERIES DFD1000 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES

DATUM SHUTTERS LLC.
dba
DS-WINDOWS & DOORS.
2731 VISTA PARKWAY, SUITE D-6
WEST PALM BEACH, FL 33411
WWW.DS-WINDOWS.COM

DRAWN BY
W.H.

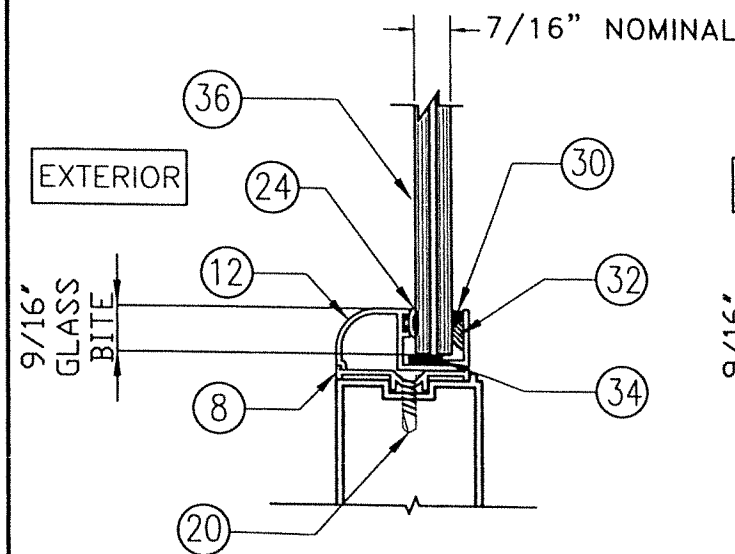
12/06/2023
DATE

23-252
DRAWING No

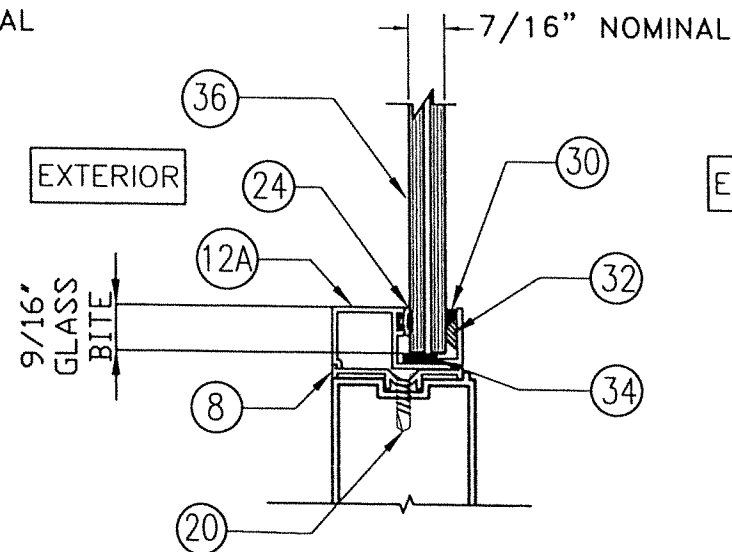
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SHEET 3 OF 24

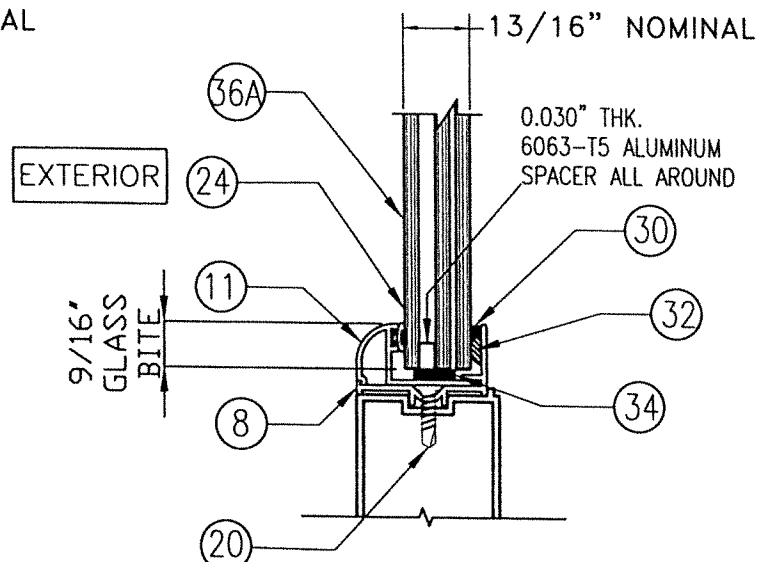
BILL OF MATERIALS (CONT'D)		
COMPONENT #	DESCRIPTION	MATERIAL
36	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" PVB INTERLAYER BY KURARAY AMERICA, INC. + 3/16" H.S. GLASS.	GLASS
37	13/16" INSULATED-LAMINATED GLASS W/ 3/16" TEMPERED GLASS OUT BOARD -1/4" ARGON SPACER + 3/16" H.S. + 0.090" PVB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



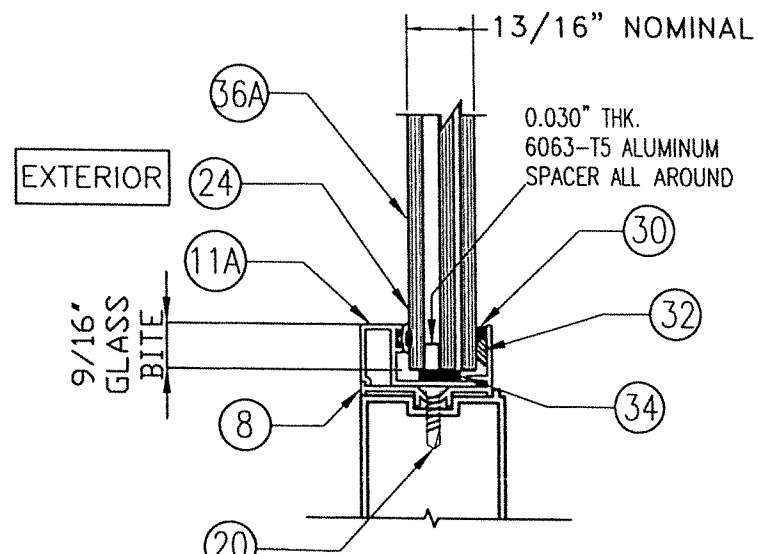
GLAZING DETAIL 1
AT 36 W/12
SCALE: N.T.S



GLAZING DETAIL 2
AT 36 W/12A
SCALE: N.T.S



GLAZING DETAIL 3
AT 37 W/11
SCALE: N.T.S

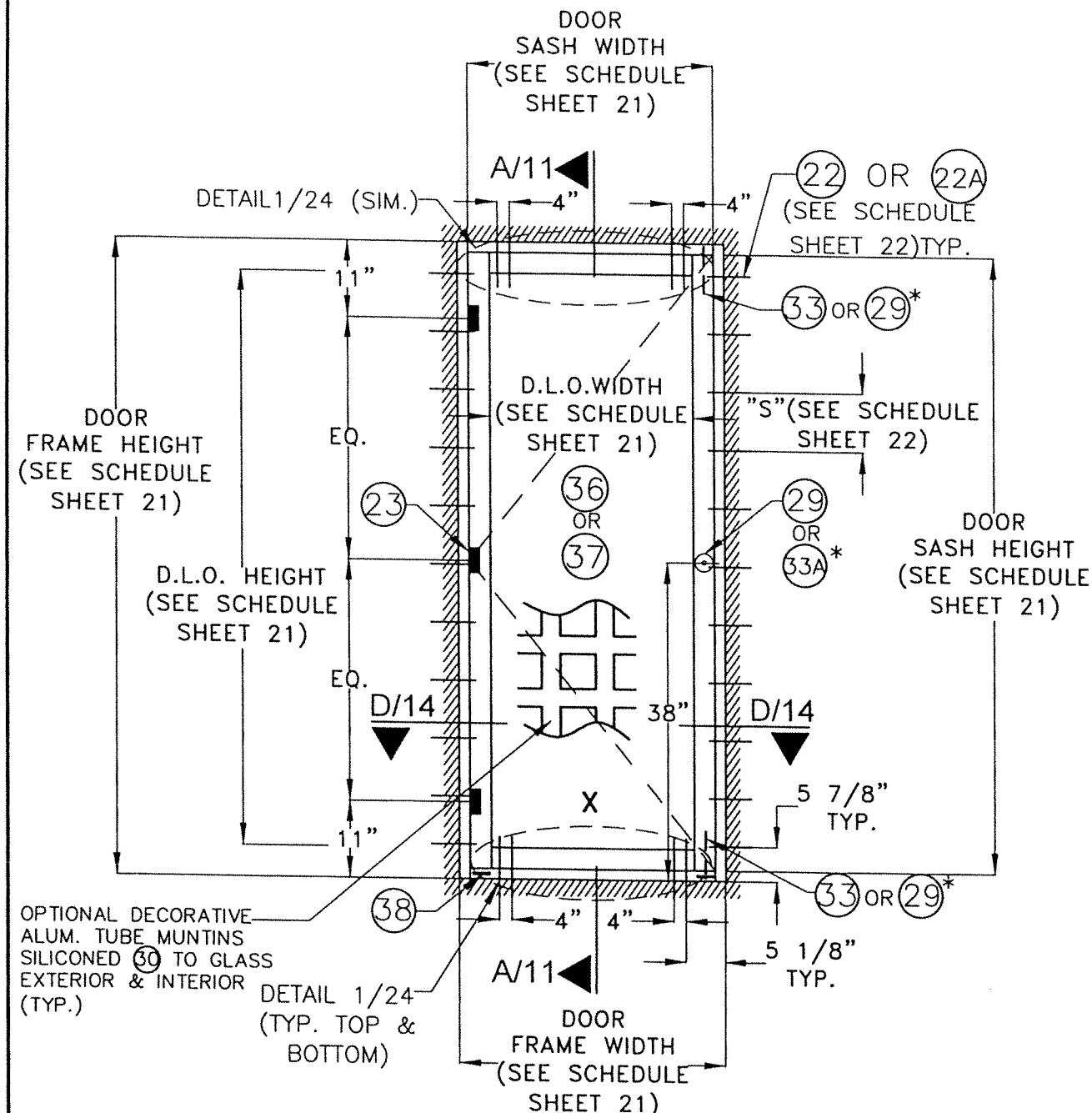


GLAZING DETAIL 4
AT 37 W/11A
SCALE: N.T.S

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

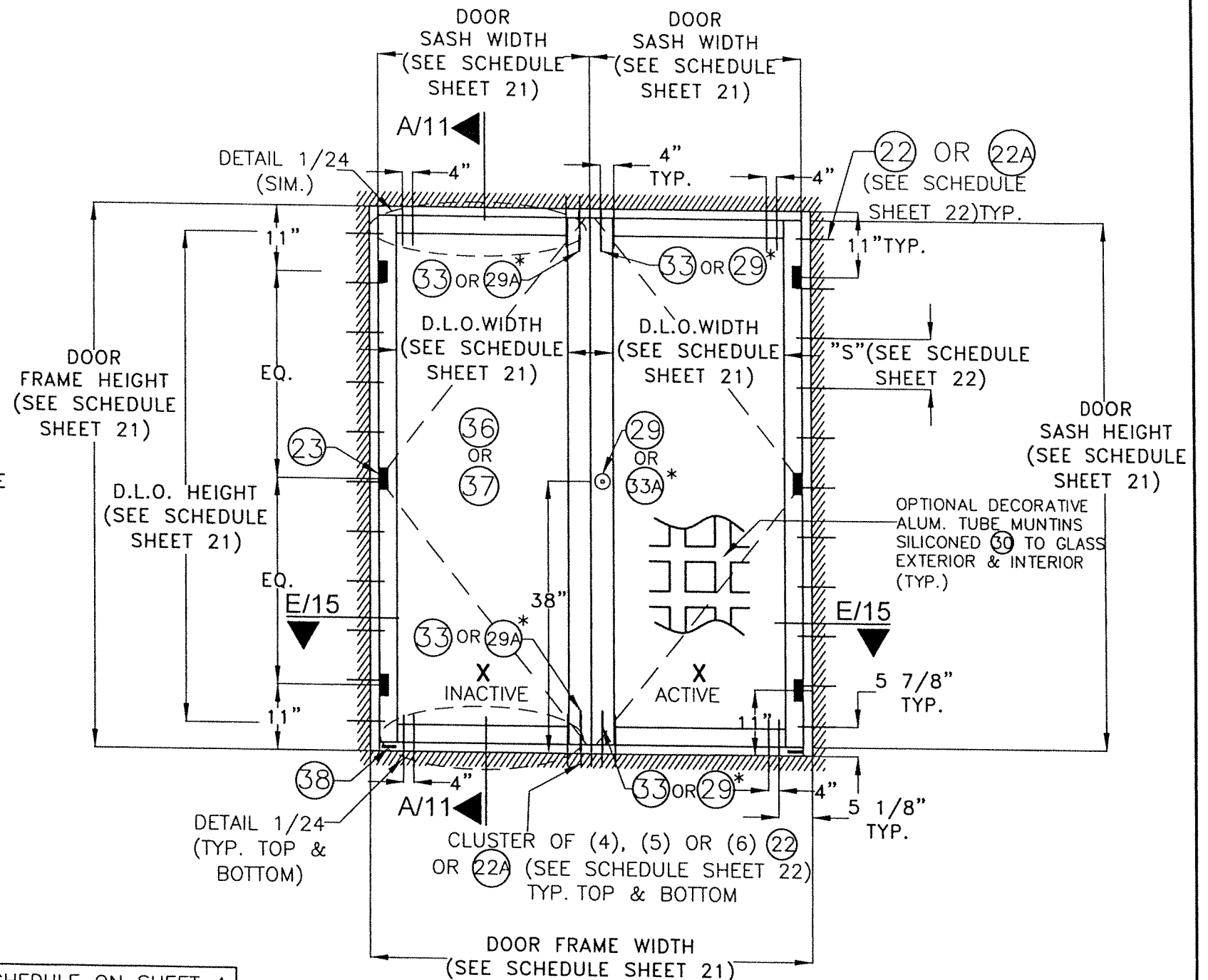
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/6/2023
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH AND NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			SERIES DFD1000 ALUMINUM OUTSWING FRENCH DOOR W/wo TRANSOM OR SIDELITES		DRAWN BY W.H.
TILTECO INC.			DATUM SHUTTERS LLC. dba DS-WINDOWS & DOORS.		12/06/2023 DATE
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 30th 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			2731 VISTA PARKWAY, SUITE D-6 WEST PALM BEACH, FL 33411 WWW.DS-WINDOWS.COM		23-252 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		
					SHEET 4 OF 24



**TYPICAL EXTERIOR ELEVATION
SINGLE DOOR**

* SEE SCHEDULE ON SHEET 4



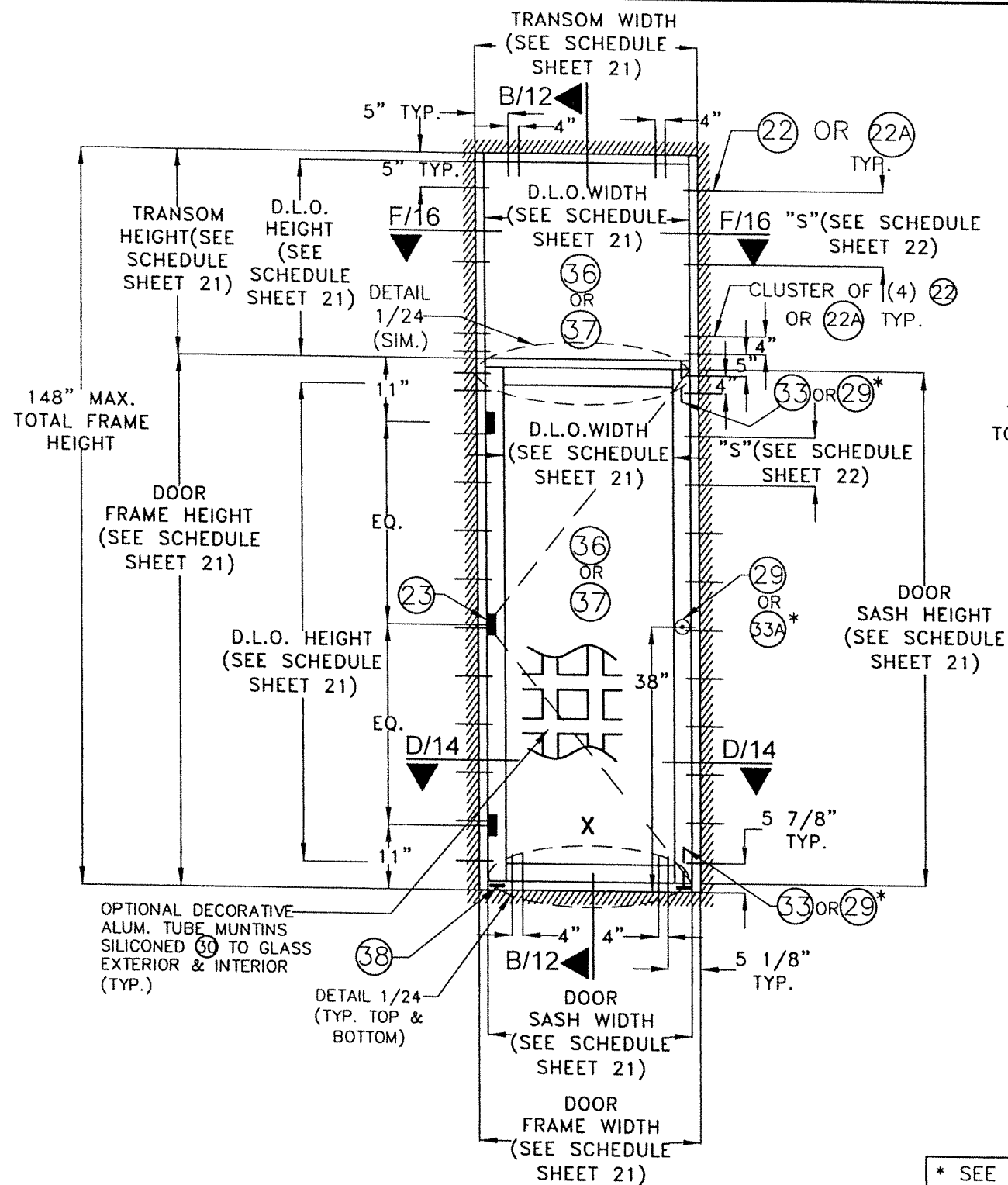
**TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR**

TYPICAL EXTERIOR ELEVATIONS FOR SINGLE & DOUBLE DOOR W/O TRANSOM NOR SIDELITES

SCALE: N.T.S

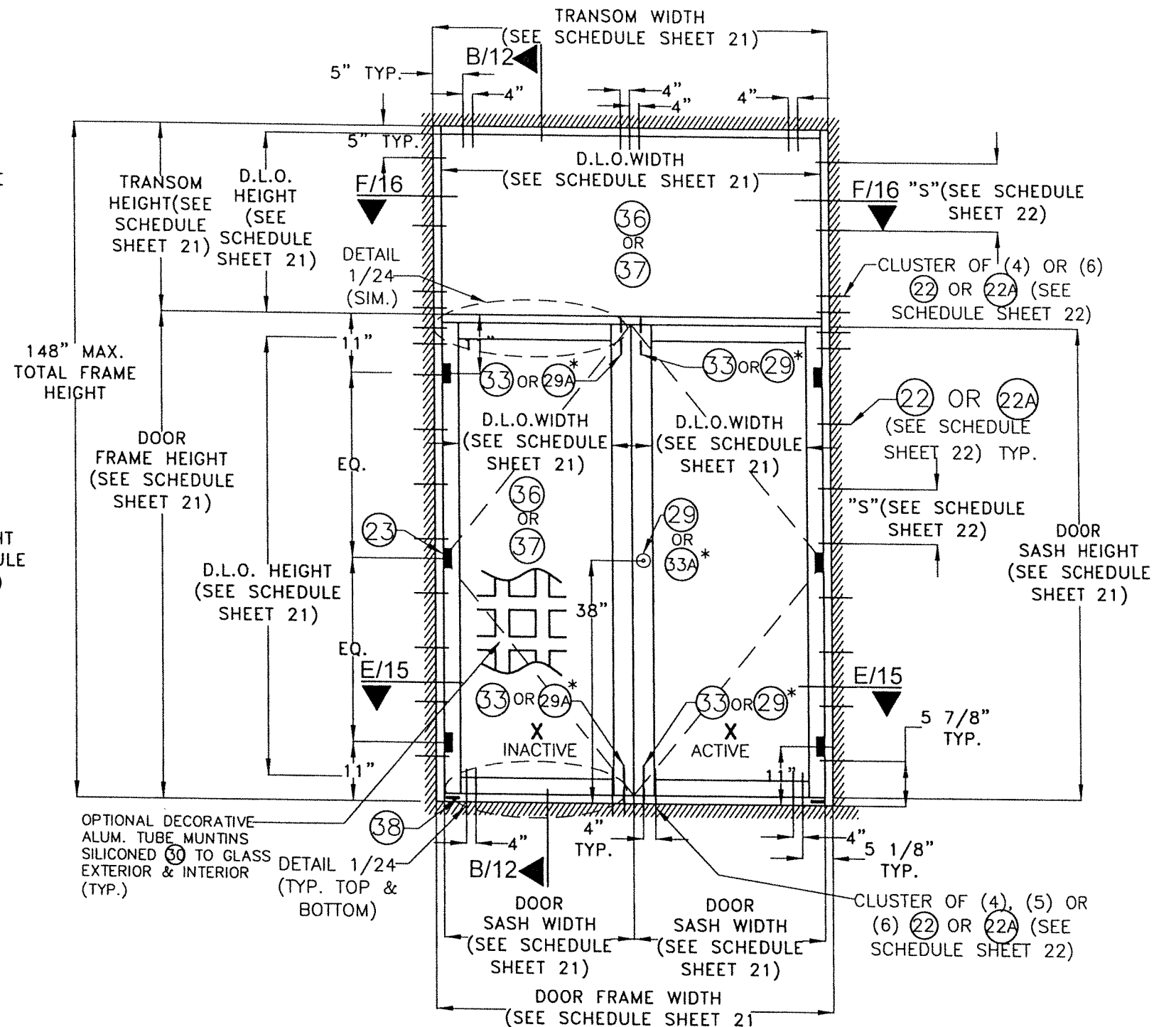
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LICENSE
No. 44167
STATE OF
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PROFESSIONAL ENGINEER
12/6/2023
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		
					DRAWN BY W.H.
					12/06/2023 DATE
					23-252 DRAWING No
					SHEET 5 OF 24



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

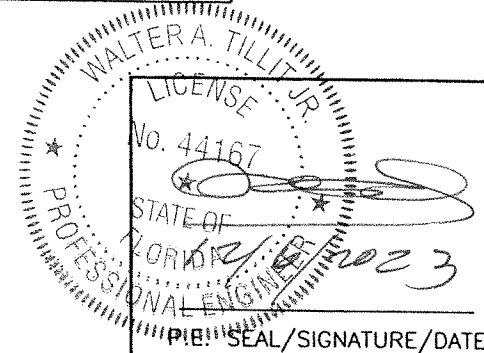
* SEE SCHEDULE ON SHEET 4



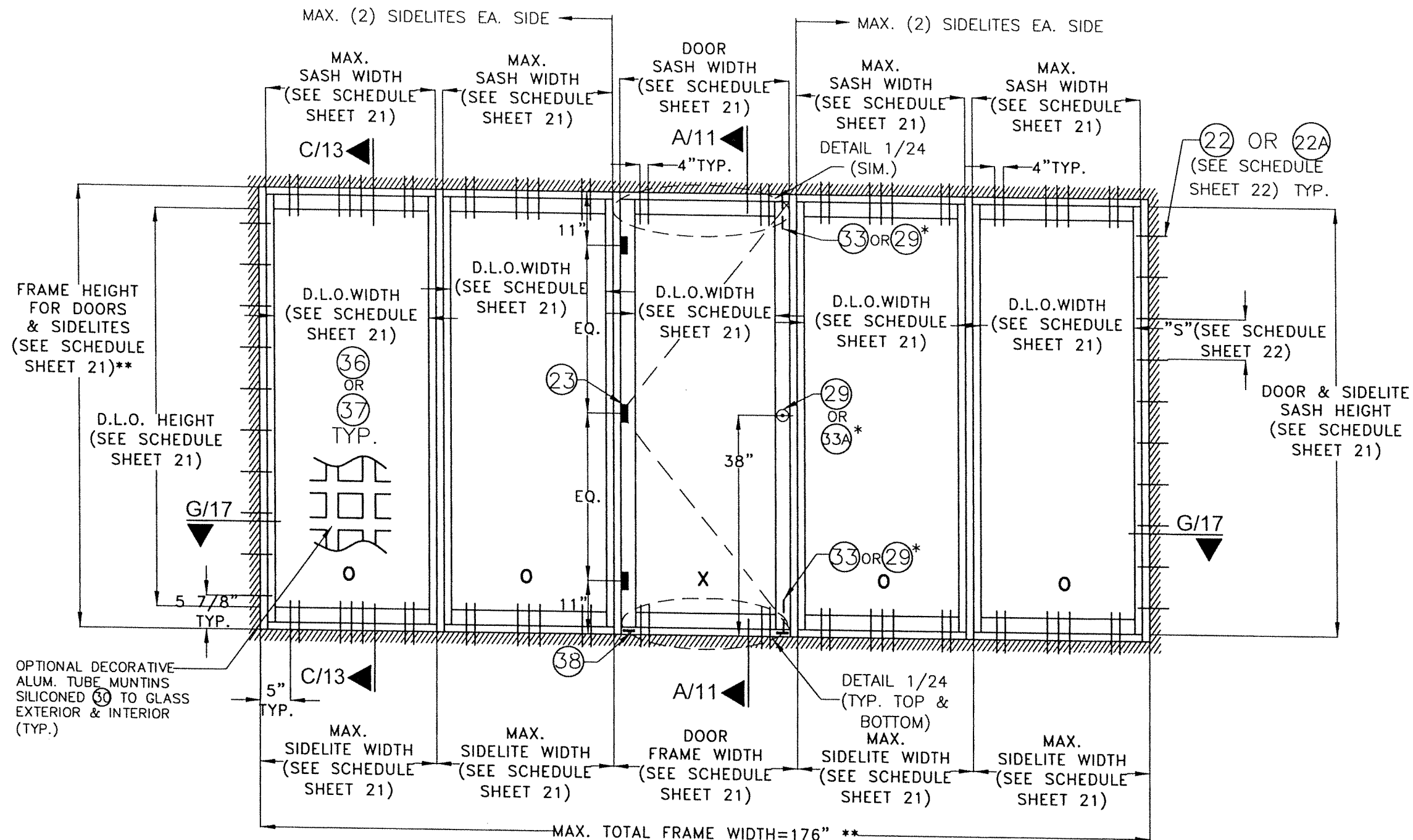
**TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR W/ TRANSOM**

TYPICAL EXTERIOR ELEVATIONS FOR SINGLE & DOUBLE DOOR W/ TRANSOM

SCALE: N.T.S.



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CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			DRAWN BY W.H. 12/06/2023 DATE 23-252 DRAWING No		
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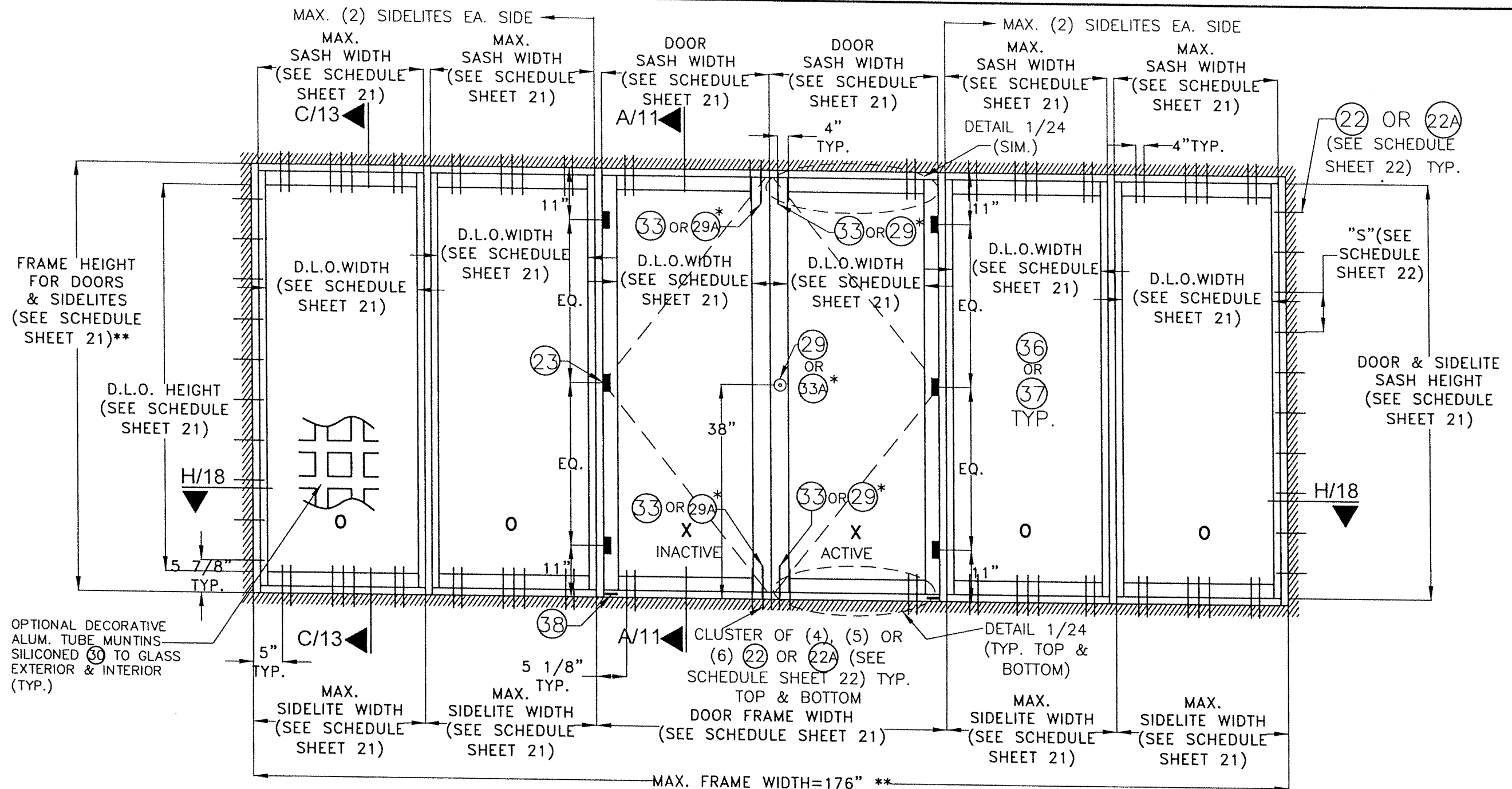
TYPICAL EXTERIOR ELEVATION OF SINGLE DOOR W/ SIDELITES

SCALE: N.T.S.

* 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

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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DRAWN BY W.H.			12/06/2023 DATE		
23-252 DRAWING No			SHEET 7 OF 24		



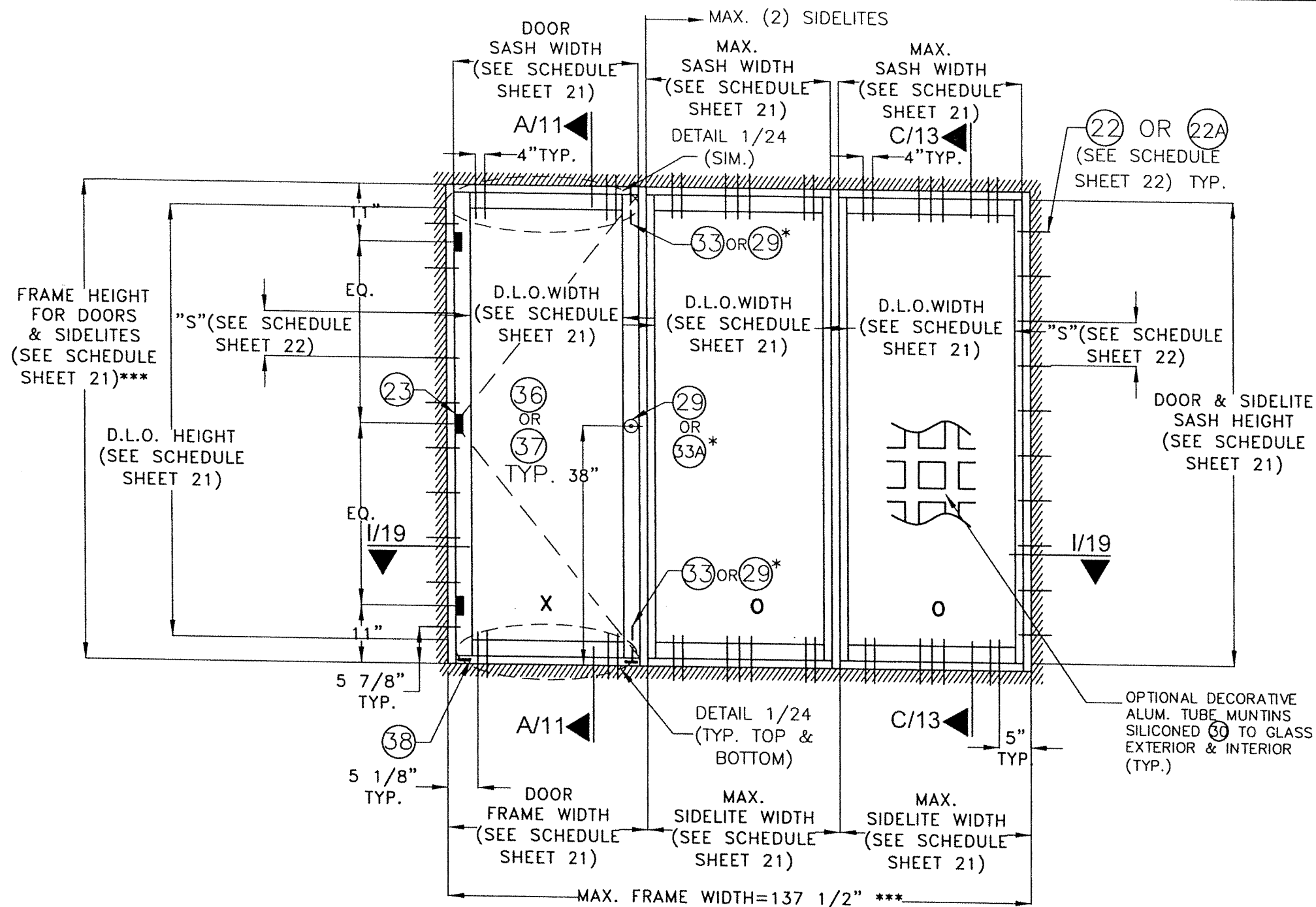
TYPICAL EXTERIOR ELEVATION OF DOUBLE DOOR W/ SIDELITES

SCALE: N.T.S

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

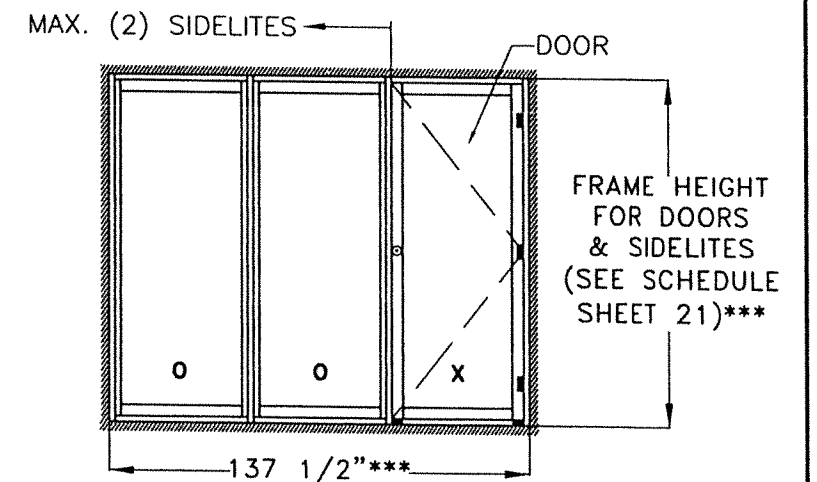
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 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
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REV. No		DESCRIPTION		DATE		REV. No		DESCRIPTION		DATE	
1						3					
2						4					
SHEET 8 OF 24											



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

SCALE: N.T.S

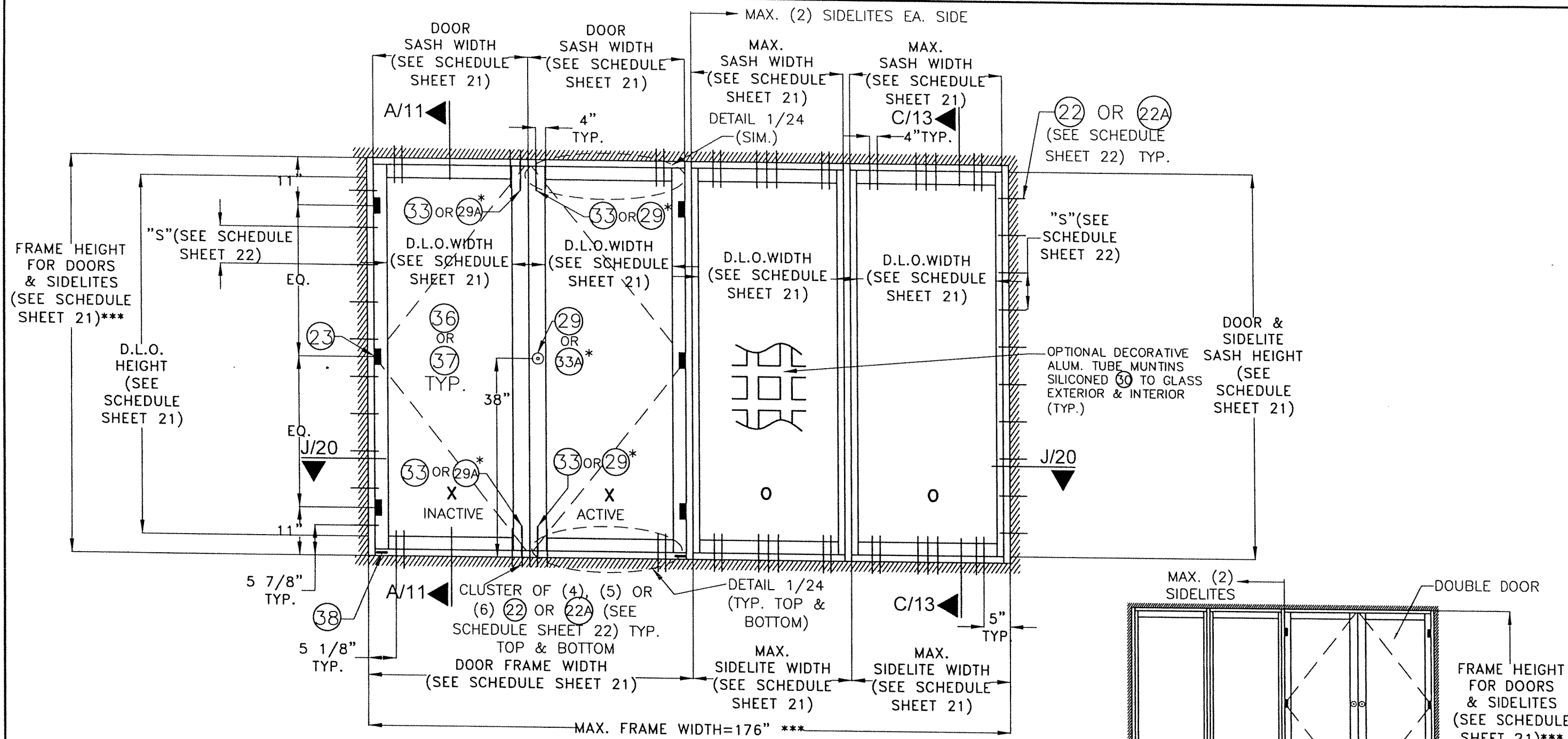


** QUALIFIES MIRROR CONFIGURATION TOO.

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

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LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

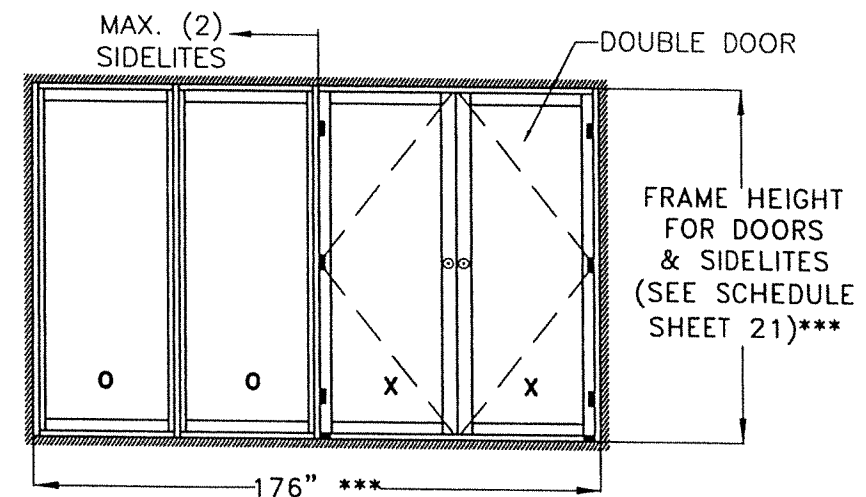
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©2023 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VEROBIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 e-mail: tiltaco@tillit.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			SERIES DFD1000 ALUMINUM OUTSWING FRENCH DOOR W/Wo TRANSOM OR SIDELITES DRAWN BY W.H. 12/06/2023 DATE 23-252 DRAWING No SHEET 9 OF 24		
DATUM SHUTTERS LLC. dba DS-WINDOWS & DOORS. 2731 VISTA PARKWAY, SUITE D-6 WEST PALM BEACH, FL 33411 WWW.DS-WINDOWS.COM					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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TYPICAL EXTERIOR ELEVATION OF
DOUBLE DOOR W/ SIDELITES **

SCALE: N.T.S

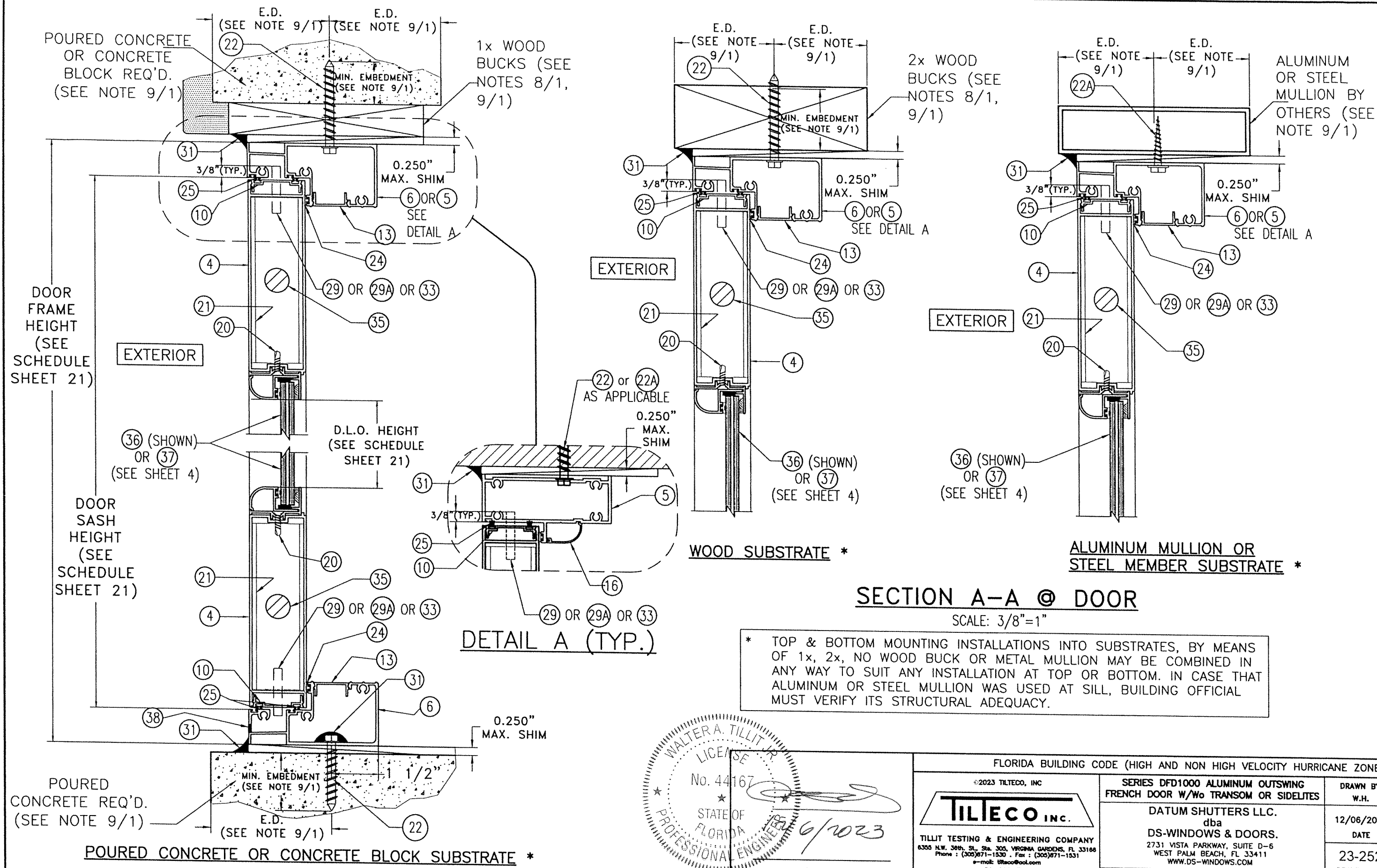
* SEE SCHEDULE ON SHEET 4
*** MAX. TOTAL FRAME AREA SHALL NOT EXCEED 122.2 FT²



** QUALIFIES MIRROR CONFIGURATION TOO.

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/23
SEAL/SIGNATURE/DATE

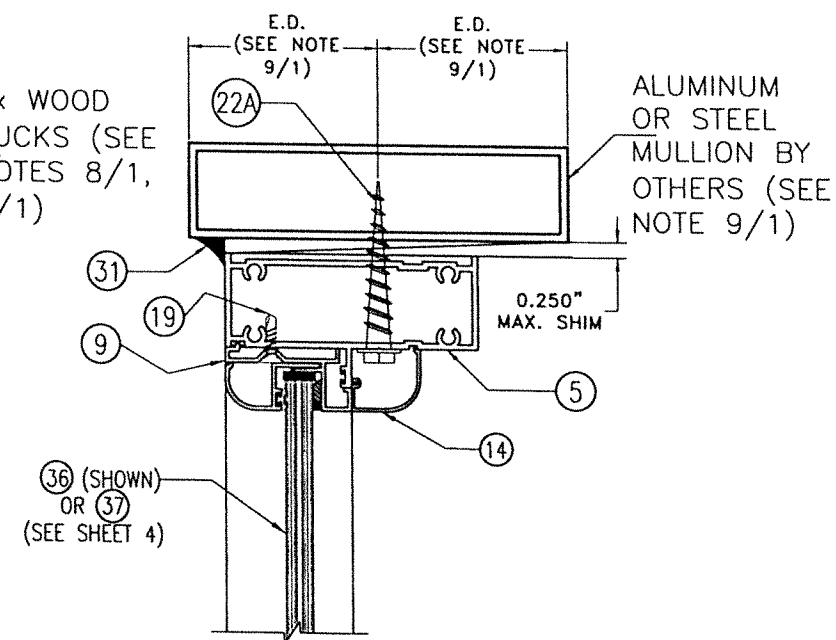
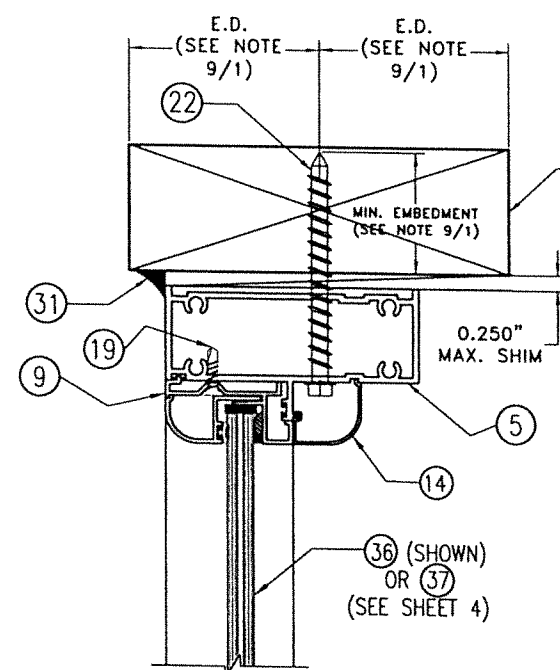
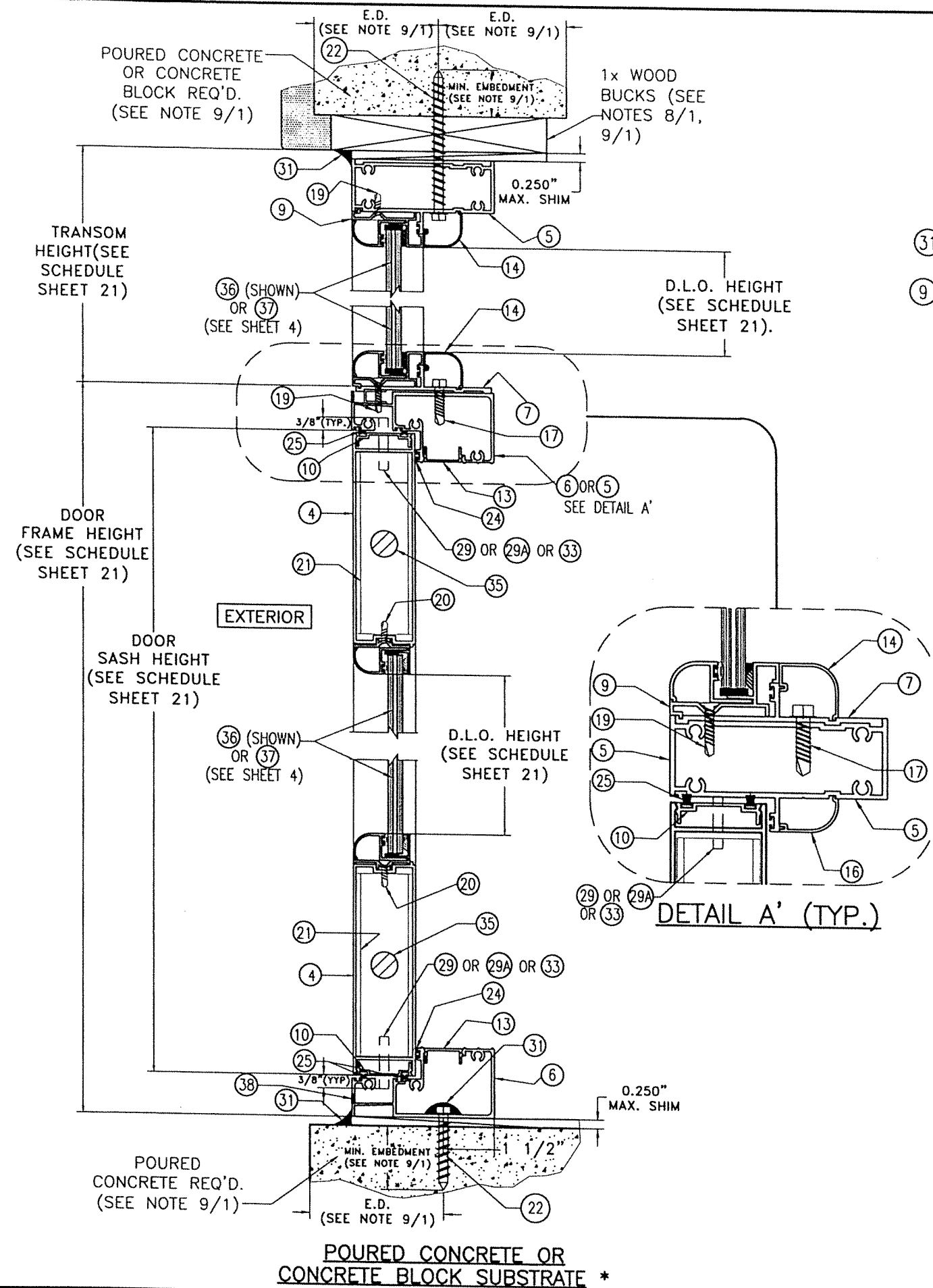
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TILTECO INC.			12/06/2023		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 e-mail: tteco@ttil.com			DATE		
CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			23-252		
			DRAWING No		
			SHEET 10 OF 24		
			REV. No	DESCRIPTION	DATE
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			3		
			4		



* 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.

WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 6/2023
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		
DRAWN BY W.H.					12/06/2023 DATE
23-252					DRAWING No
SHEET 11 OF 24					



WOOD SUBSTRATE *

ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE *

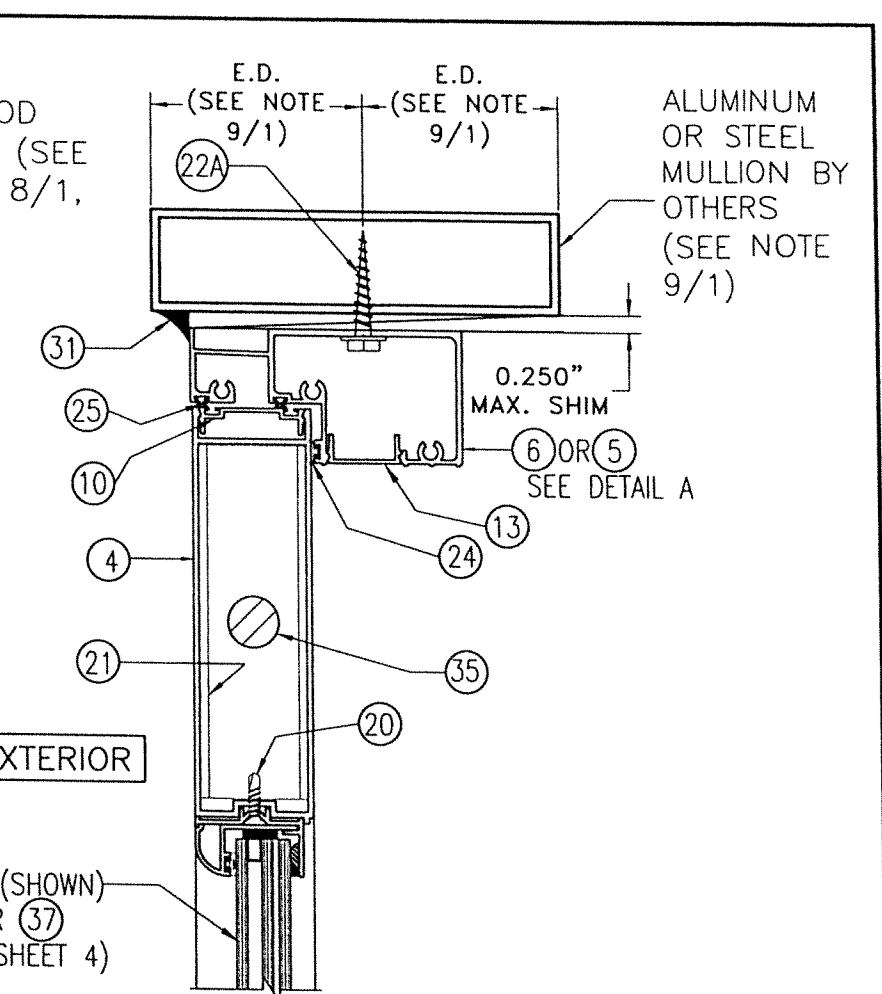
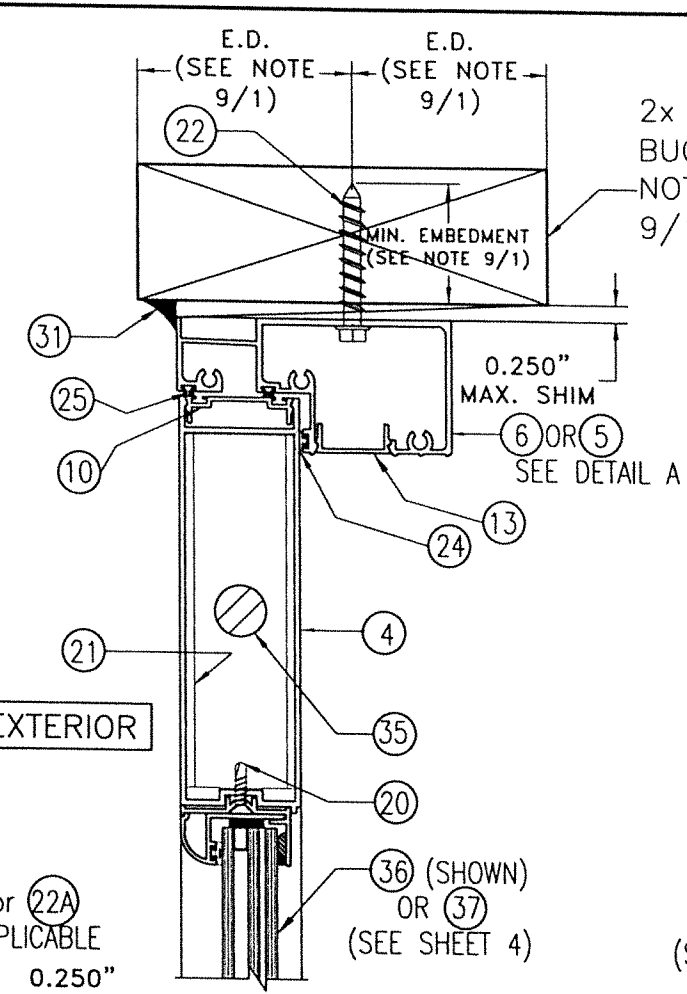
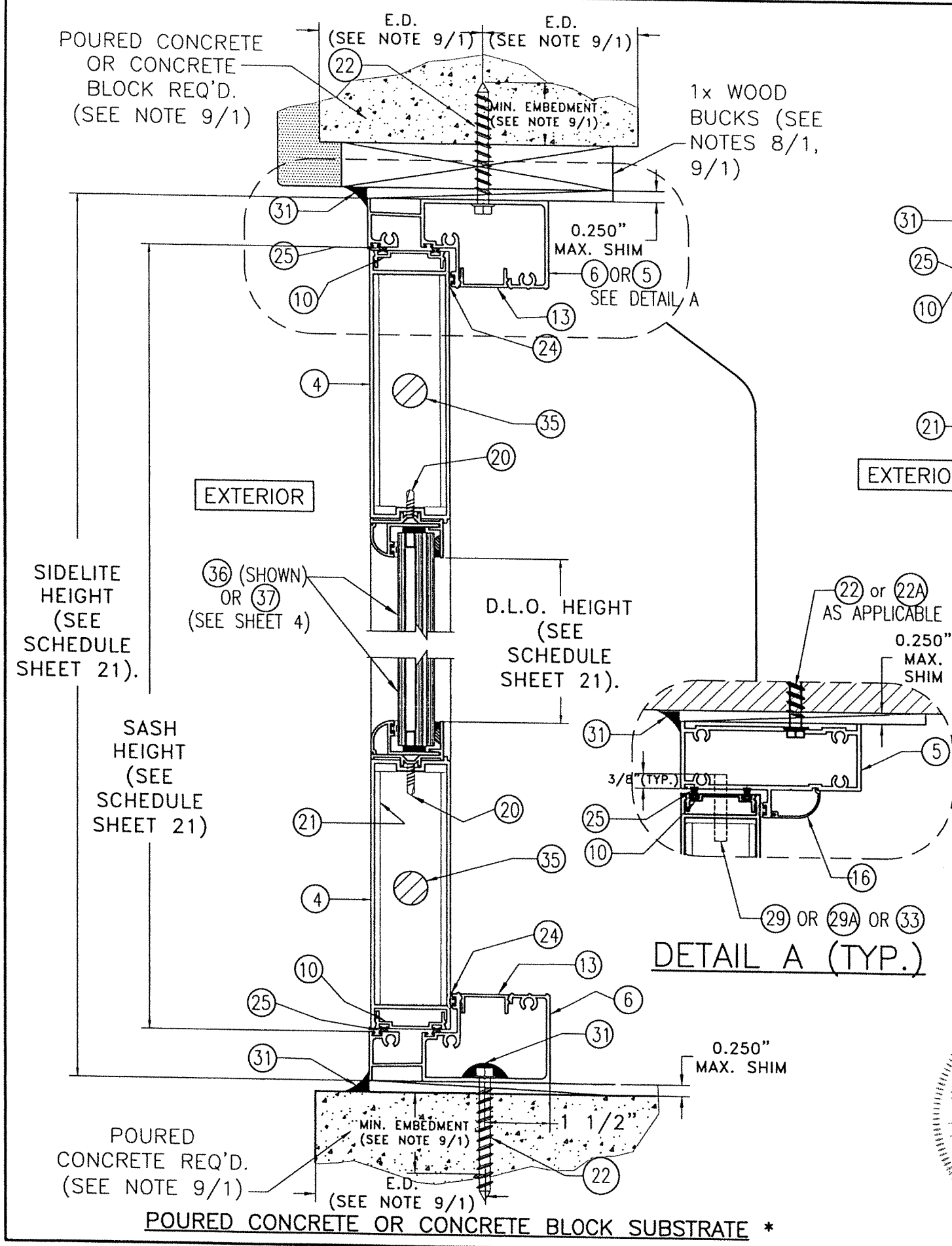
* TOP & BOTTOM MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT TOP OR BOTTOM. IN CASE THAT ALUMINUM OR STEEL MULLION WAS USED AT SILL, BUILDING OFFICIAL MUST VERIFY ITS STRUCTURAL ADEQUACY.

SECTION B-B @ DOOR W/ TRANSOM

SCALE: 1/4"=1"

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

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TILTECO INC.			DATUM SHUTTERS LLC. dba DS-WINDOWS & DOORS.		
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CA-0008719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167			DRAWING No. 23-252		
REV. No. 1			DATE 12/06/2023		
REV. No. 2			DATE		
REV. No. 3			DATE		
REV. No. 4			DATE		



WOOD SUBSTRATE *

ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE *

SECTION C-C @ SIDELITES

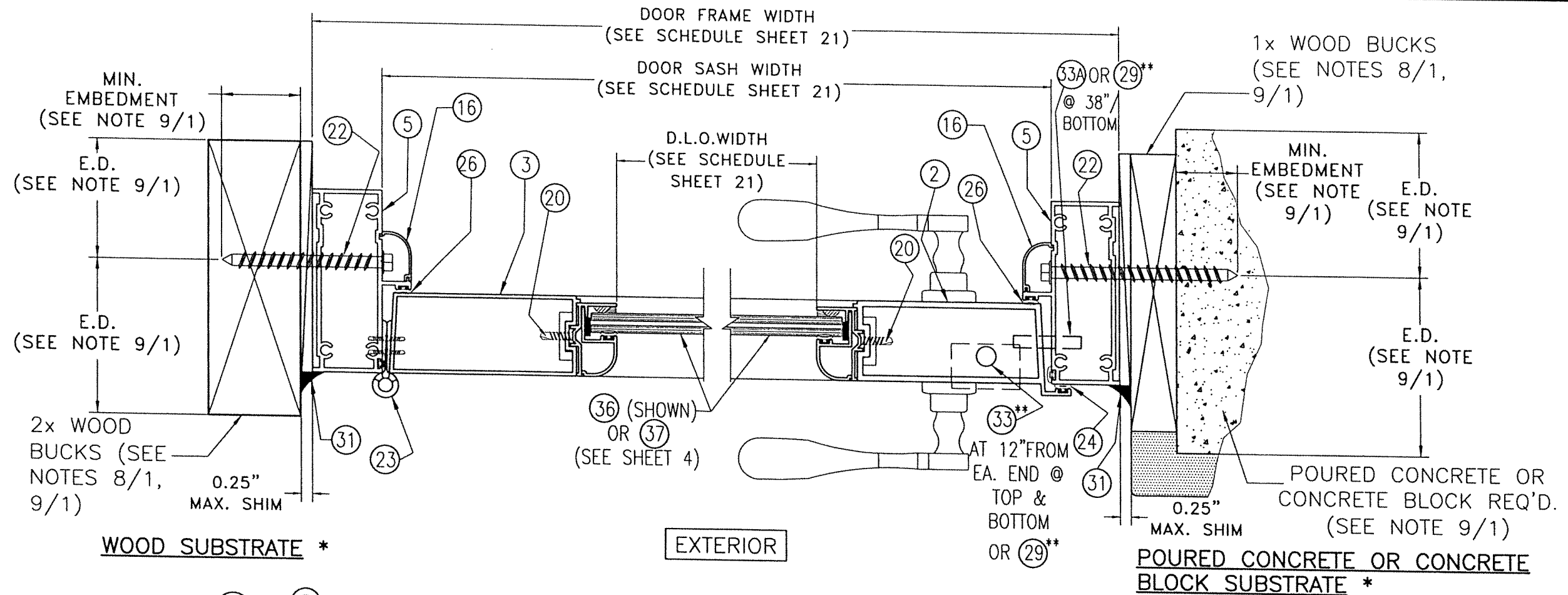
SCALE: 3/8"=1"

* 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.

DETAIL A (TYP.)

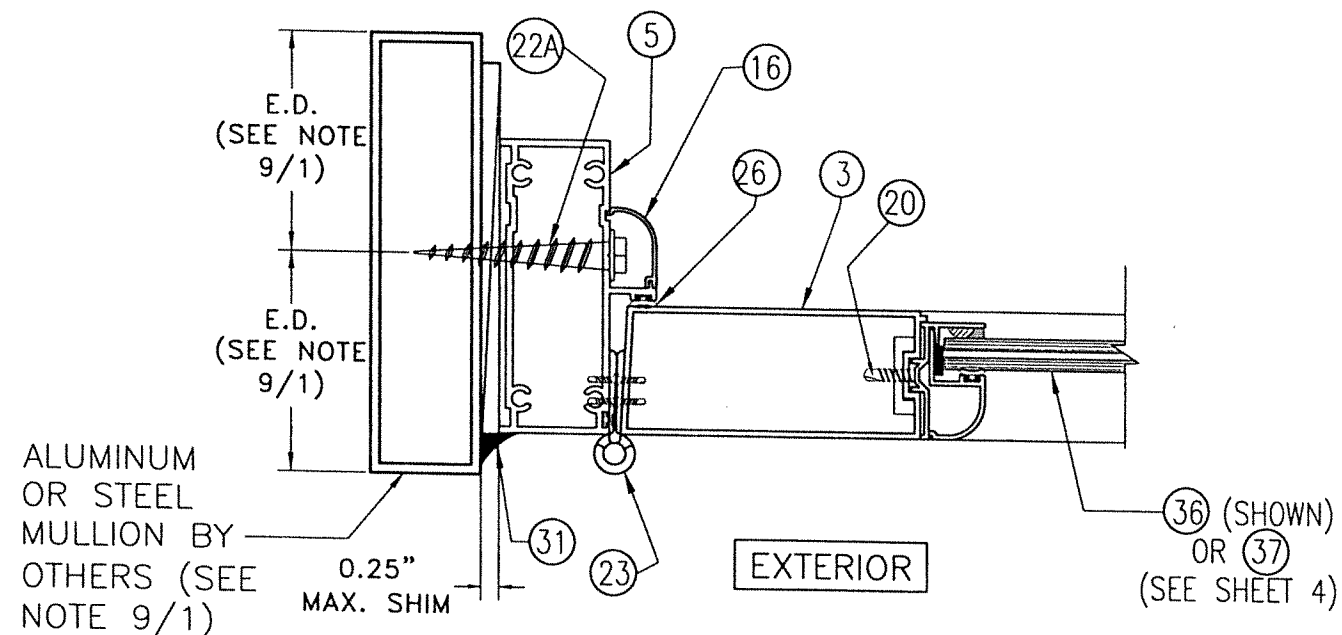
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/6/2023
P.E. SEAL/SIGNATURE/DATE

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			3		
2			4		
DRAWN BY W.H.					12/06/2023
DATE					23-252
DRAWING No					SHEET 13 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.

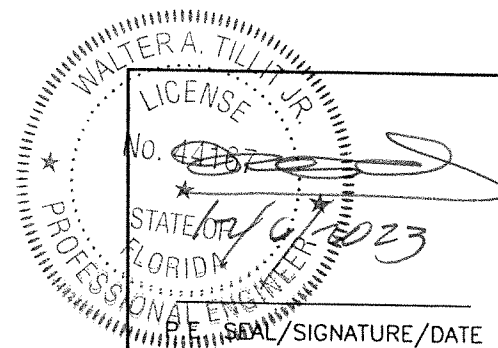
** SEE SCHEDULE ON SHEET 4.



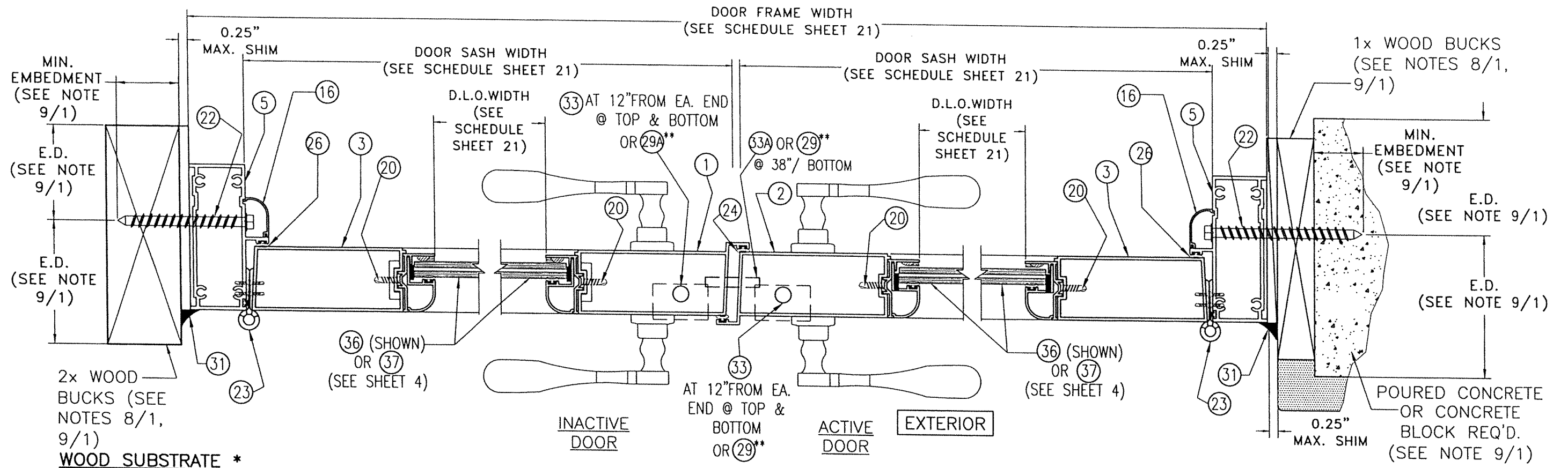
ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *

SECTION D-D @ SINGLE DOOR

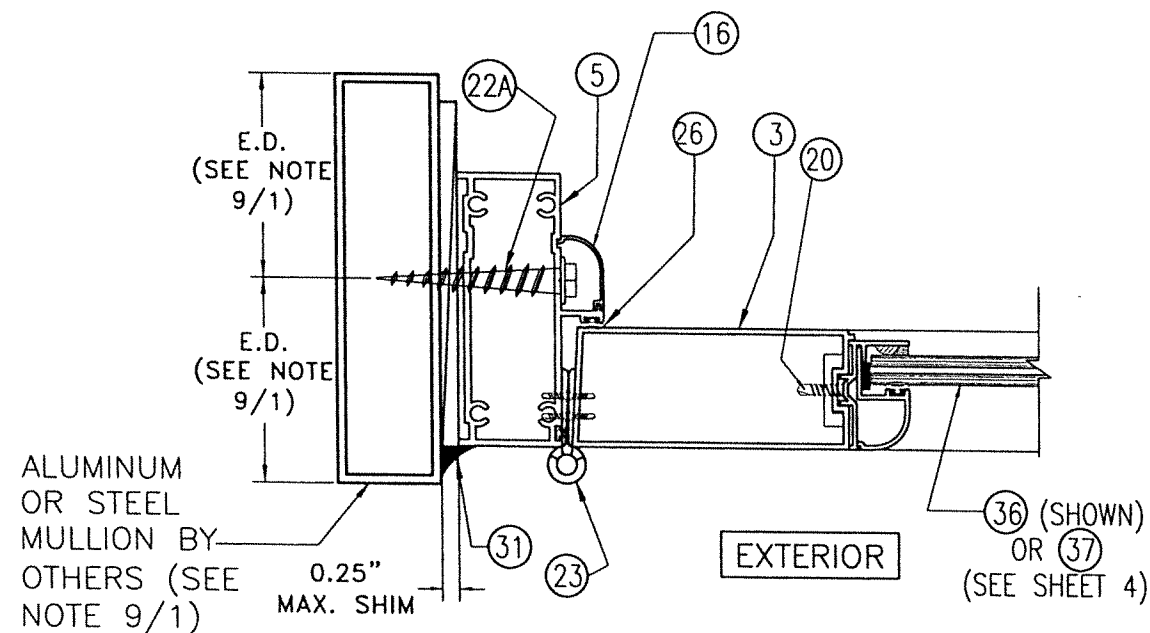
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DRAWN BY W.H.			DATE 12/06/2023		
DRAWING No 23-252			SHEET 14 OF 24		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1			2		
2			4		



**POURED CONCRETE
OR CONCRETE
BLOCK SUBSTRATE ***



**ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE ***

SECTION E-E @ DOUBLE 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.

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
1/28/2023
P.E. SEAL/SIGNATURE/DATE

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Phone : (305)671-1530 - Fax : (305)671-1531
e-mail: tillit@tillit.com

CA-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

SERIES DFD1000 ALUMINUM OUTSWING
FRENCH DOOR W/NO TRANSOM OR SIDELITES

DATUM SHUTTERS LLC.
dba

DS-WINDOWS & DOORS.

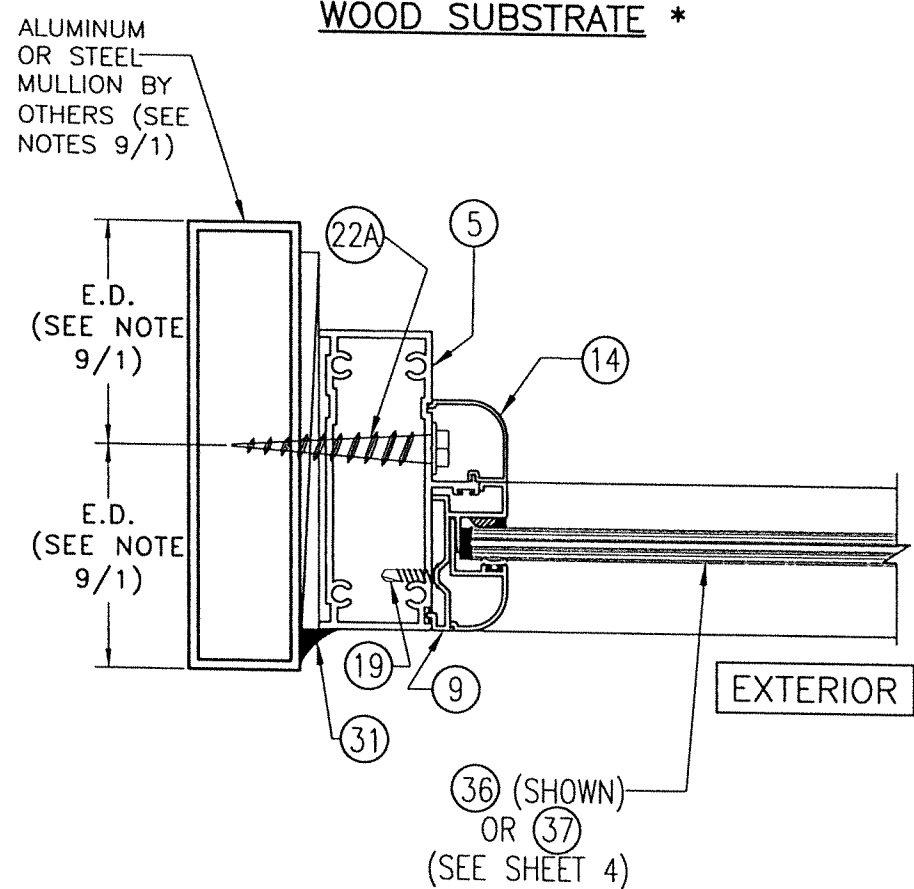
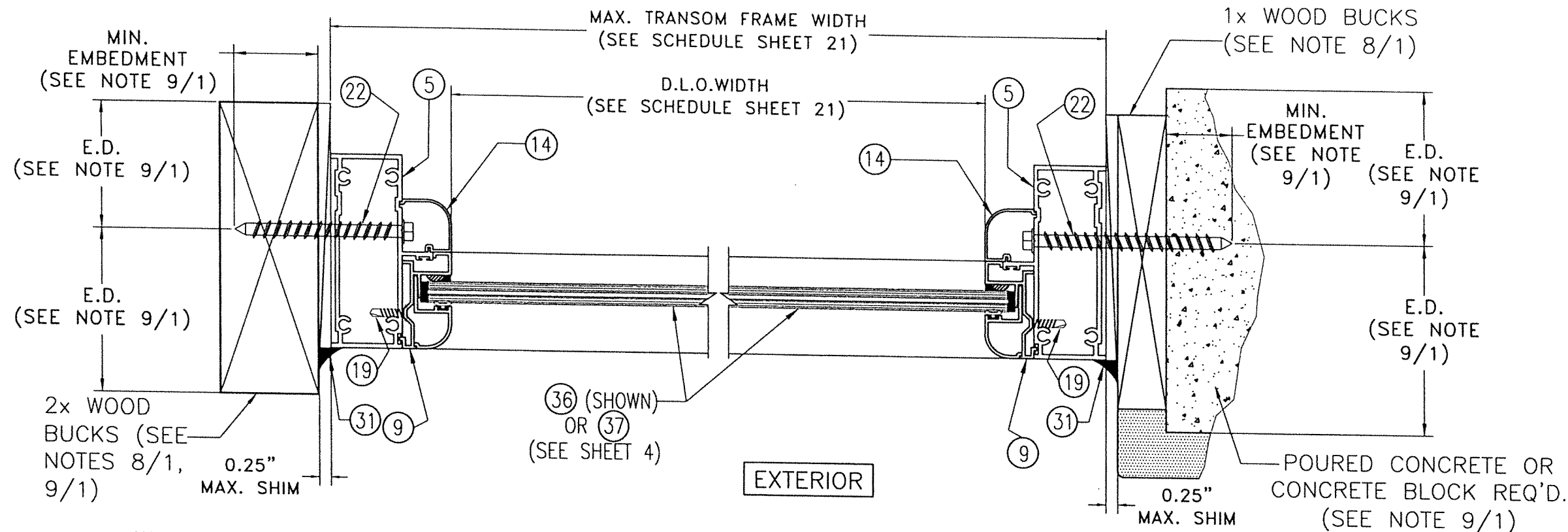
2731 VISTA PARKWAY, SUITE D-6
WEST PALM BEACH, FL 33411
WWW.DS-WINDOWS.COM

DRAWN BY
W.H.

12/06/2023
DATE

23-252
DRAWING No

SHEET 15 OF 24



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SECTION F-F @ TRANSOM
SCALE: 3/8"=1"

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No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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

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e-mail: tiltco@tiltco.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES DFD1000 ALUMINUM OUTSWING
FRENCH DOOR W/Wo TRANSOM OR SIDELITES

DATUM SHUTTERS LLC.
dba
DS-WINDOWS & DOORS.
2731 VISTA PARKWAY, SUITE D-6
WEST PALM BEACH, FL 33411
WWW.DS-WINDOWS.COM

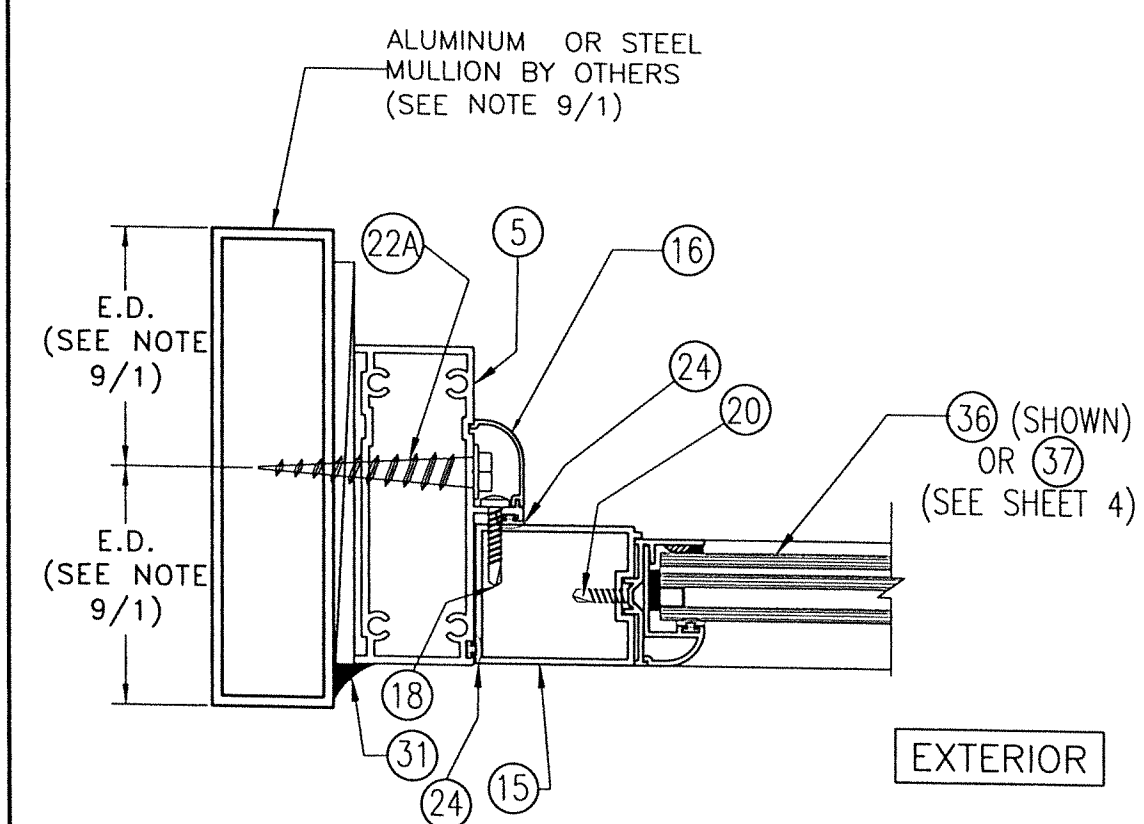
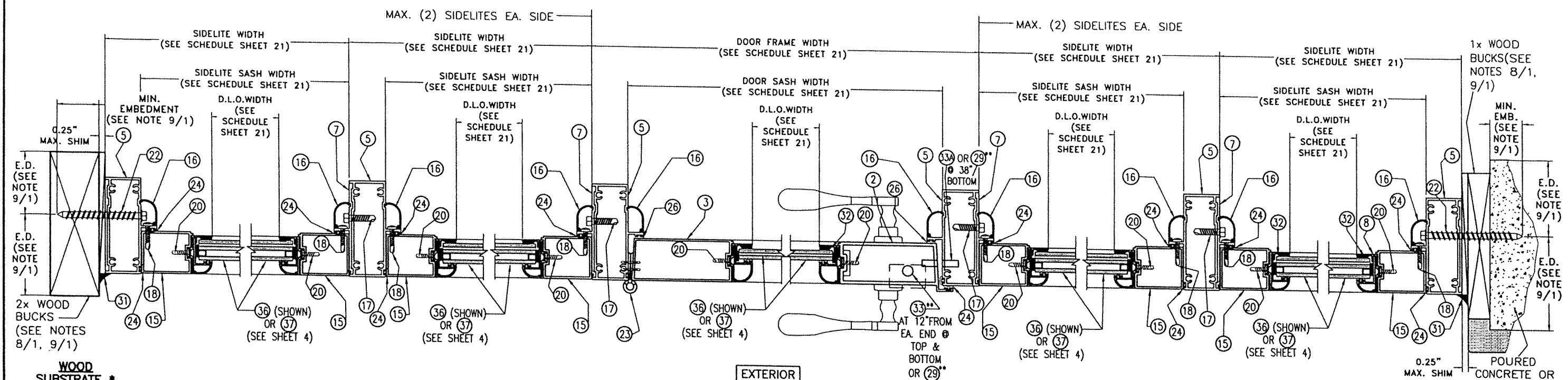
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DRAWN BY
W.H.

12/06/2023
DATE

23-252
DRAWING No

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.

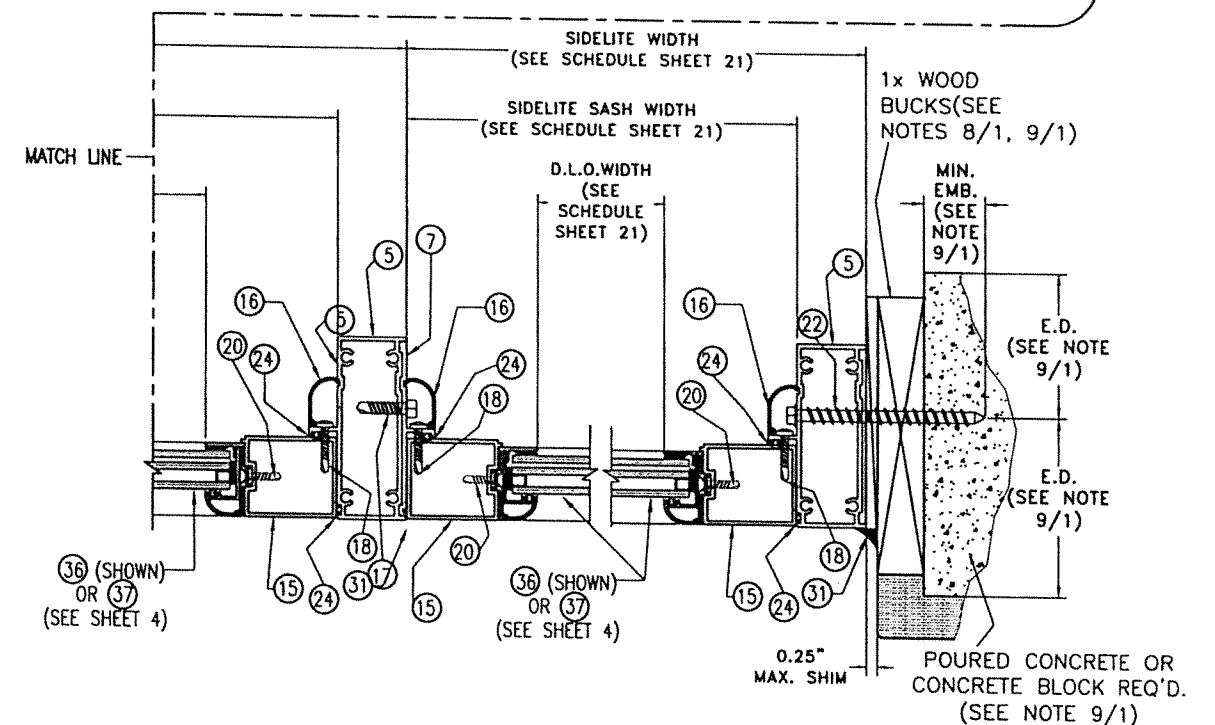
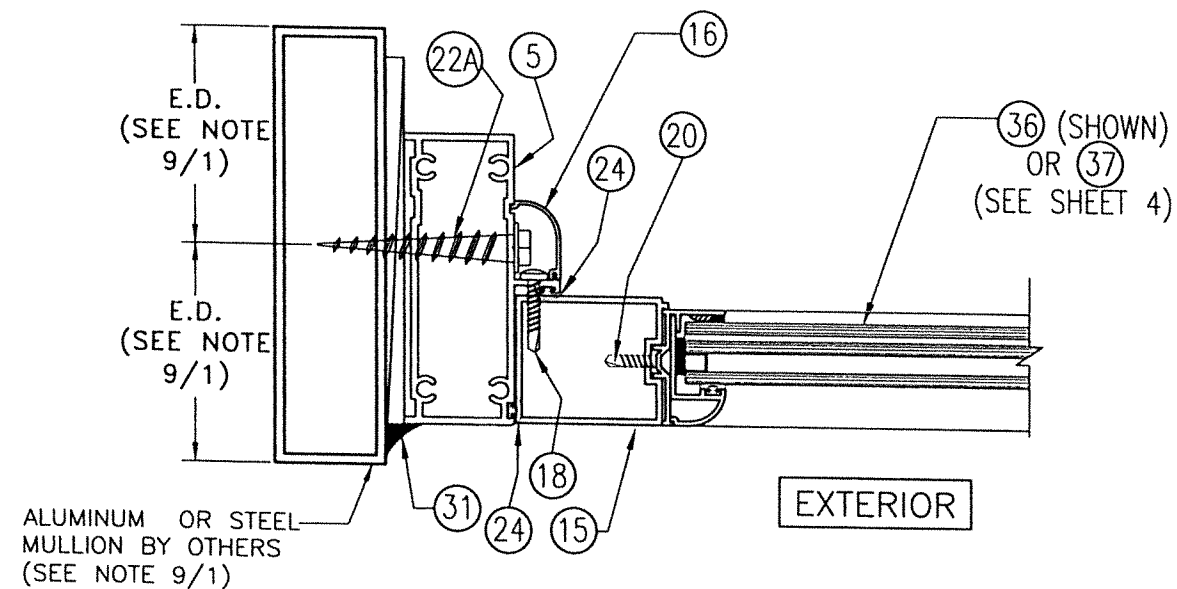
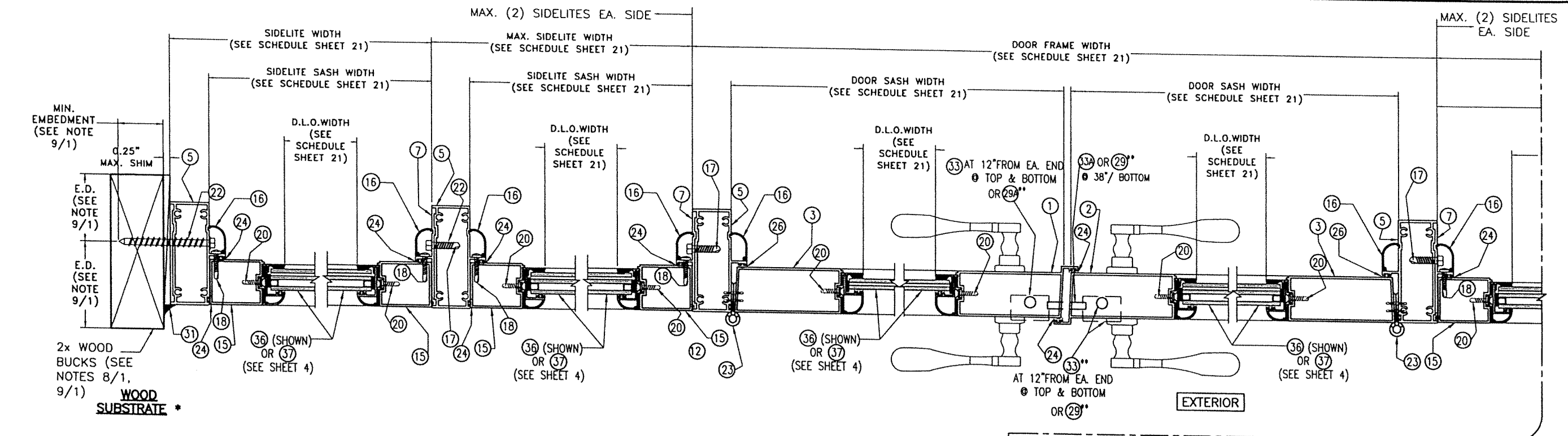
SECTION G-G SINGLE DOOR W/ SIDELITES

SCALE: 1/4"=1"

ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE *

WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE

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23-252 DRAWING No			SHEET 17 OF 24		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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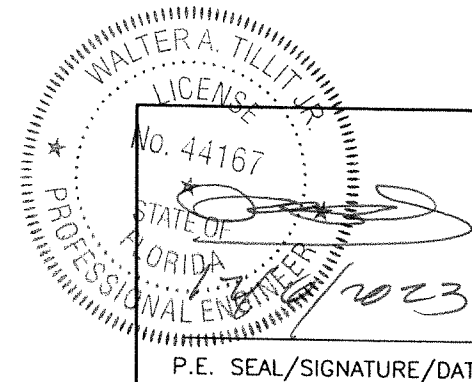


* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

** SEE SCHEDULE ON SHEET 4.

SECTION H-H DOUBLE DOOR
W/ SIDELITES

SCALE: N.T.S



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e-mail: tlltaco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES DFD1000 ALUMINUM OUTSWING
FRENCH DOOR W/WO TRANSOM OR SIDELITES

DATUM SHUTTERS LLC.
dba
DS-WINDOWS & DOORS.

2731 VISTA PARKWAY, SUITE D-6
WEST PALM BEACH, FL 33411
WWW.DS-WINDOWS.COM

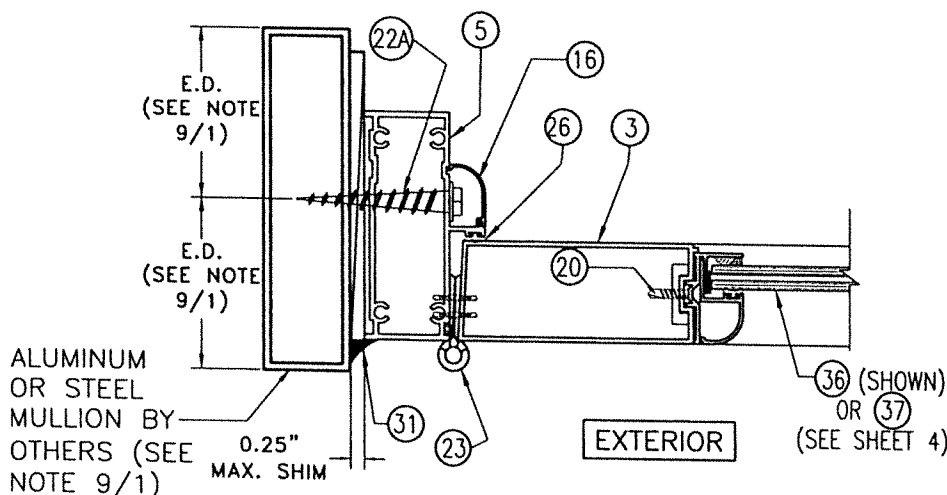
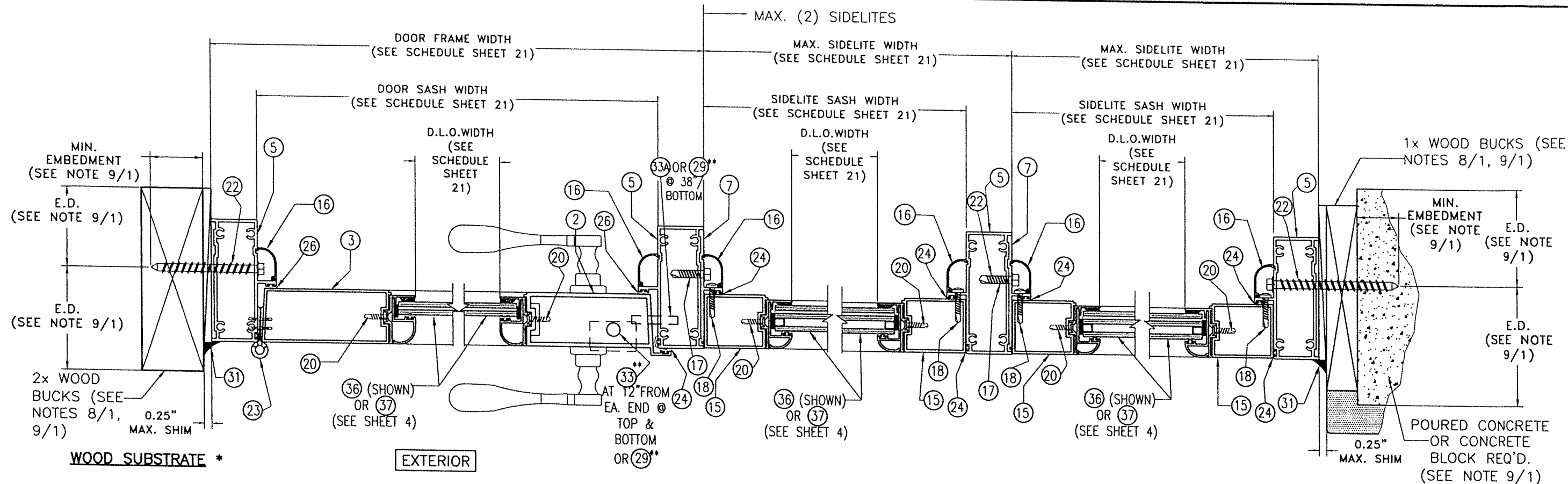
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DATE

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ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *

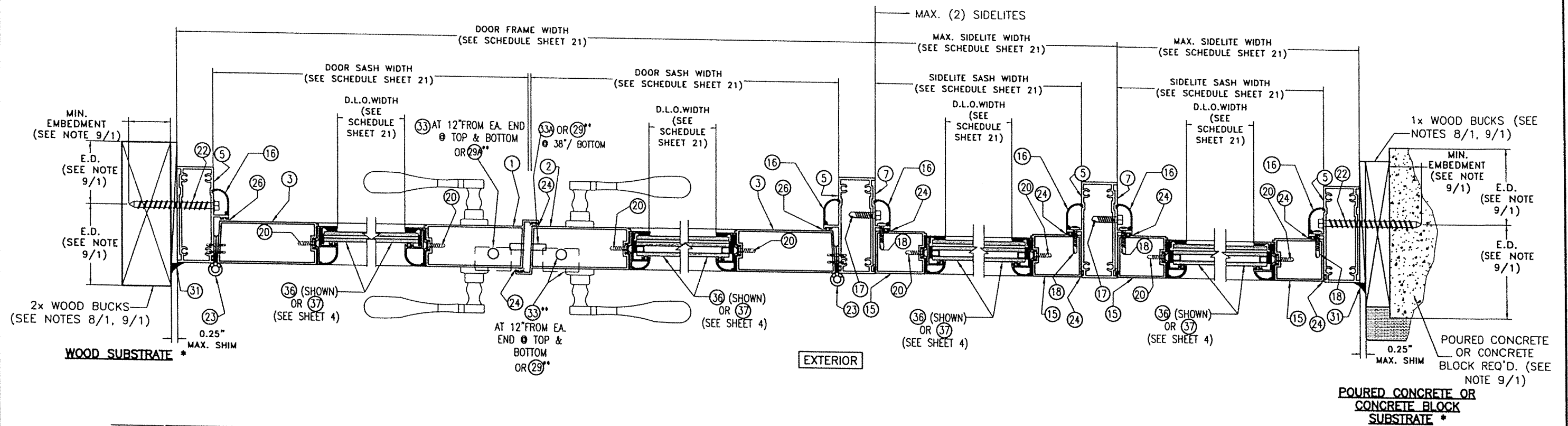
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** SEE SCHEDULE ON SHEET 4.

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

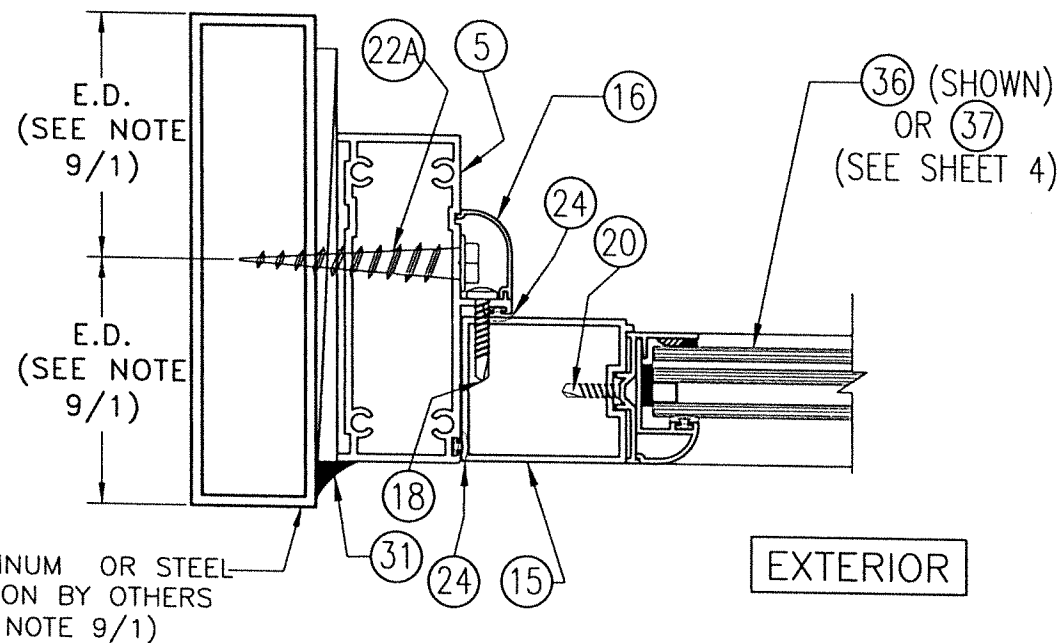
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LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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2			4		
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23-252 DRAWING No			SHEET 19 OF 24		



EXTERIOR

POURED CONCRETE OR
CONCRETE BLOCK
SUBSTRATE *



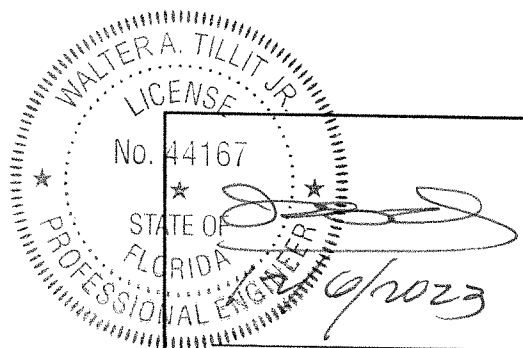
EXTERIOR

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.

** SEE SCHEDULE ON SHEET 4.

SECTION J-J DOUBLE DOOR W/ SIDELITES



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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			12/06/2023 DATE 23-252 DRAWING No SHEET 20 OF 24		

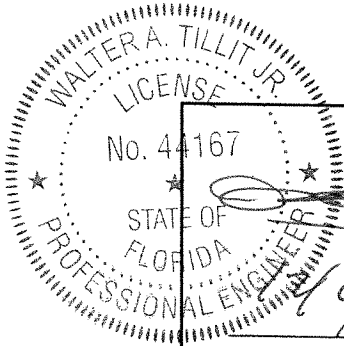
SINGLE & DOUBLE DOOR SCHEDULE ONLY VALID
FOR DOORS W/O TRANSOM AND W/O SIDELITE

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"



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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SERIES DFD1000 ALUMINUM OUTSWING
FRENCH DOOR W/wo TRANSOM OR SIDELITES

DATUM SHUTTERS LLC.
dba
DS-WINDOWS & DOORS.

2731 VISTA PARKWAY, SUITE D-6
WEST PALM BEACH, FL 33411
WWW.DS-WINDOWS.COM

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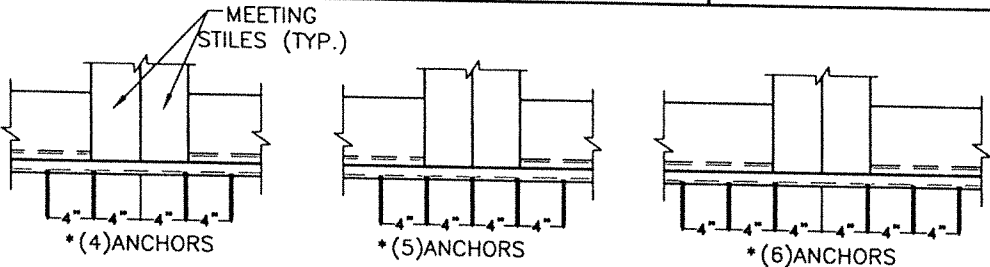
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SHEET 21 OF 24

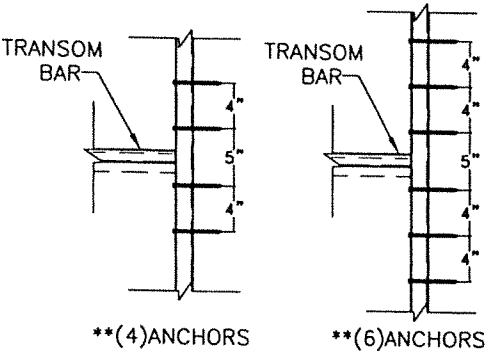
REQ'D NUMBER OF ANCHORS & CORRESPONDING ASD
DESIGN PRESSURE RATING AT HEAD/SILL: CLUSTER OF
ANCHORS AT DOUBLE DOOR, AT MEETING STILES *

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

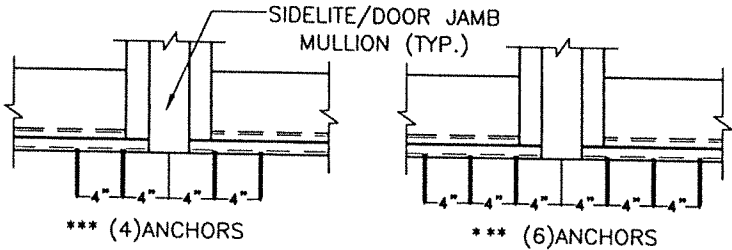


MAXIMUM ANCHOR SPACING "S" & CORRESPONDING ASD DESIGN
PRESSURE RATING SCHEDULE AT JAMBS OF DOOR, SIDELITE & TRANSOM

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.

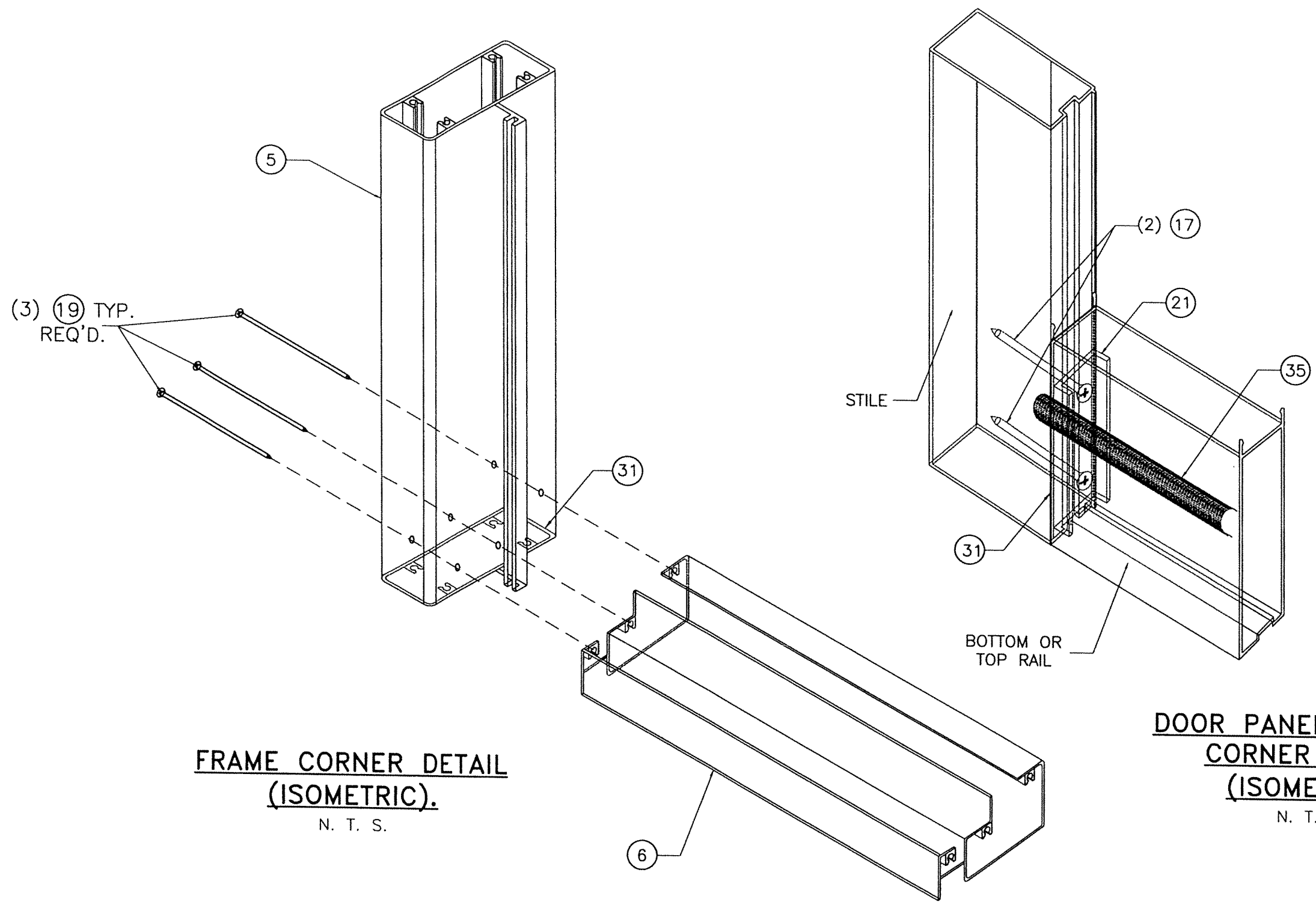
REQ'D NUMBER OF ANCHORS AT HEAD & SILL: CLUSTER
OF ANCHORS AT SIDELITE & DOOR JAMB MULLIONS &
CORRESPONDING ASD DESIGN PRESSURE RATING ***

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



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

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REV. No		DESCRIPTION	DATE	REV. No	
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SHEET 22 OF 24				DRAWING No 23-252	

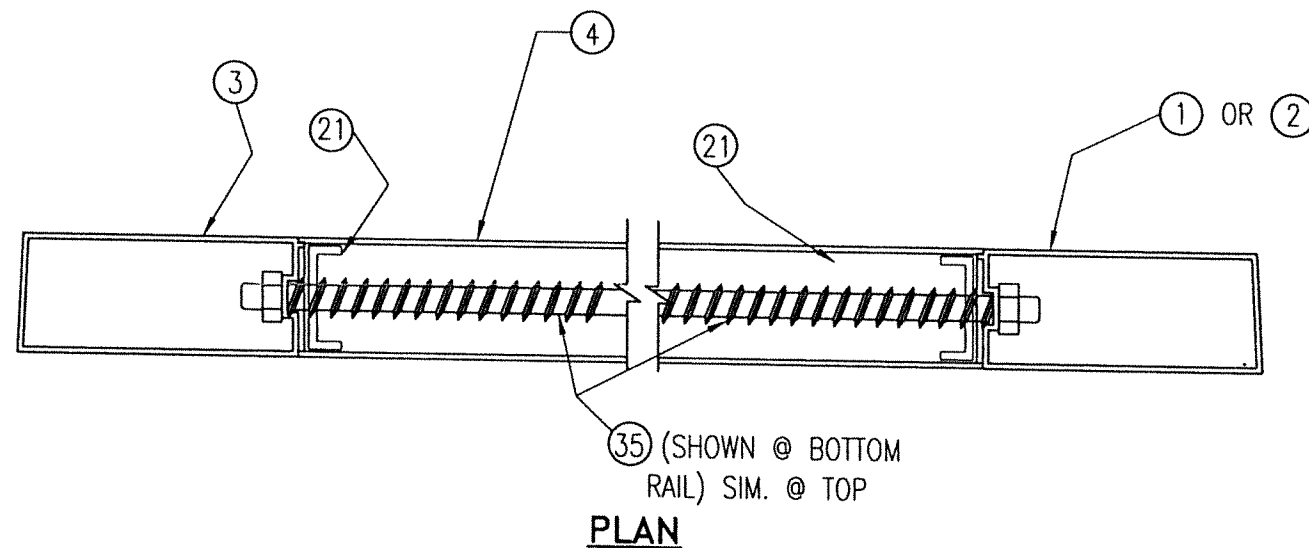
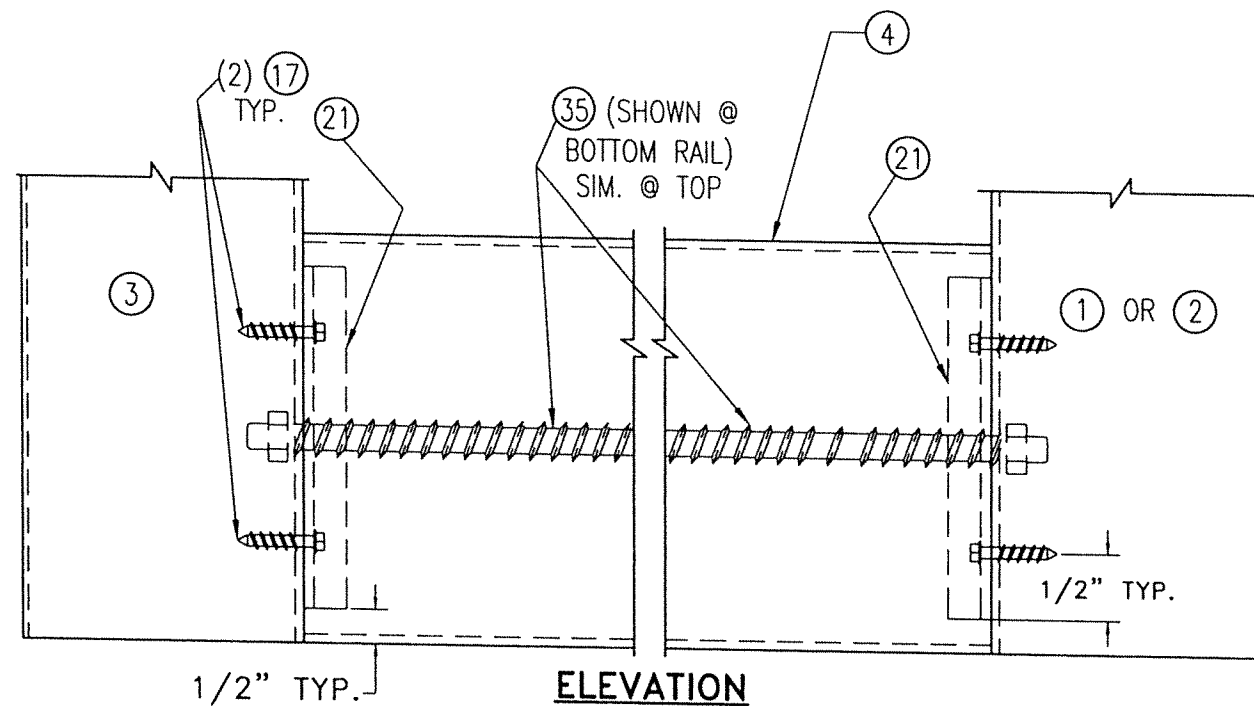


**FRAME CORNER DETAIL
(ISOMETRIC).**
N. T. S.

**DOOR PANEL & PANEL
CORNER DETAIL
(ISOMETRIC).**
N. T. S.

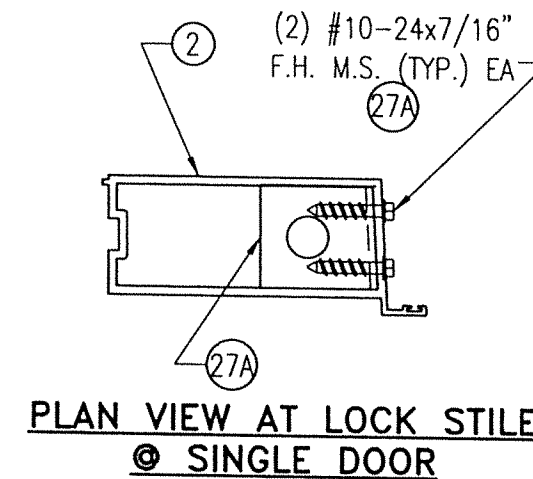
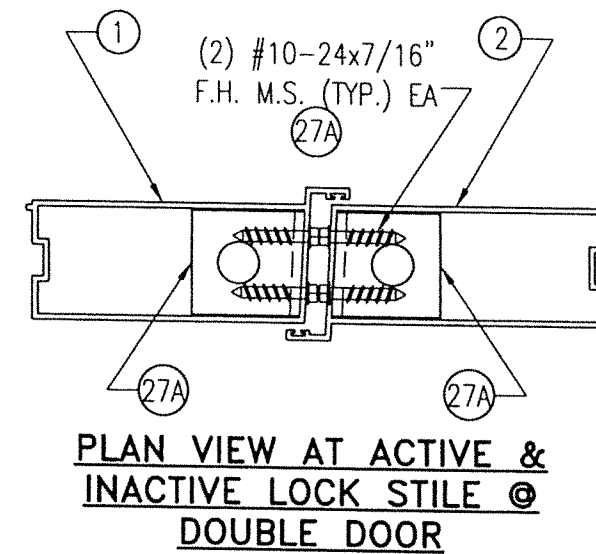
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23-252 DRAWING No			SHEET 23 OF 24		
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1			2		
2			4		



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

SCALE: N.T.S



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

SCALE: N.T.S

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2023
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