

GENERAL NOTES:

1. SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR SIDELITES, 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 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/TRANSOM OR SIDELITES MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z) OR OUT OF IT (N.H.V.H.Z).

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 PRODUCT'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 & AAMA 501 (PER SECTION 2411.3.2.1.1) 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 & 1604 OF THE FLORIDA BUILDING CODE. GLASS VERIFIED PER ASTM E-1300, PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE.

2. REMAINING COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON BILL OF MATERIALS AND COMPONENT SHEETS 2, 3, 4 (FOR OPTIONAL SYSTEM #1) & 24, 25 & 26 (FOR OPTIONAL SYSTEM #2) OF THIS DRAWING.

3. MAXIMUM A.S.D. DESIGN PRESSURE RATINGS FOR THIS PRODUCT SHALL BE AS SHOWN ON SHEET 21 (FOR OPTIONAL SYSTEM #1) & SHEET 44 (FOR OPTIONAL SYSTEM #2). SEE DOOR ELEVATIONS AND NOTES ON SHEETS 5 THRU 10 (FOR OPTIONAL SYSTEM #1) & SHEETS 27 THRU 32 (FOR OPTIONAL SYSTEM #2) FOR QUALIFIED CONFIGURATIONS.

4. THIS PRODUCT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

5. THIS PRODUCT IS APPROVED FOR AIR AND WATER INFILTRATION.

6. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER AS PER SHEET 2 (FOR OPTIONAL SYSTEM #1) & SHEET 24 (FOR OPTIONAL SYSTEM #2). ALL ALUMINUM EXTRUSIONS 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 # 2, $G=0.55$, AND SHALL COMPLY WITH SECTION 2411.3.3.3 OF THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE.

(8.1) 2 x WOOD BUCKS MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. ANCHORAGE IS INDEPENDENT OF DOOR FRAME ANCHORAGE. DOOR FRAME MUST BE SEPARATELY ANCHORED TO 2 x WOOD BUCK FOLLOWING DETAILS ON THIS DRAWING.

(8.2) 1 x WOOD BUCK (OR ANY WOOD BUCK LESS THAN 2X) MUST BE PROPERLY ANCHORED TO EXISTING STRUCTURE TO TRANSFER LOADS TO IT. DOOR FRAME ANCHOR SHALL BE USED TO ATTACH 1 x WOOD BUCK TO EXISTING STRUCTURE BY DRIVING ANCHOR THRU BOTH DOOR FRAME & 1 x WOOD BUCK INTO EXISTING STRUCTURE W/ PROPER EMBEDMENT AND EDGE DISTANCE AS SHOWN ON THIS DRAWING.

(8.3) DOOR FRAME MAY BE DIRECTLY CONNECTED TO EXISTING STRUCTURE WITH NO NEED OF WOOD BUCKS WHEN MASONRY OPENING IS NO LARGER THAN ACTUAL DOOR OVERALL DIMENSIONS. HOWEVER, SHIMS (SEE NOTE 10) MAY BE ALLOWED AT DOOR FRAME ANCHOR LOCATION IF NEEDED.

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) FOR OPTIONAL SYSTEM #1 & #2).

(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) FOR OPTIONAL SYSTEM #1 & #2).

(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) FOR OPTIONAL SYSTEM #1 & #2).

(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) FOR OPTIONAL SYSTEM #1 & #2), FULLY ENGAGED.

(E) TO EXISTING MIN. 16 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) FOR OPTIONAL SYSTEM #1 & #2), 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 1709.5.1 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.

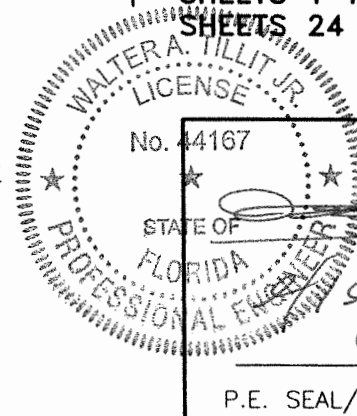
(c) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

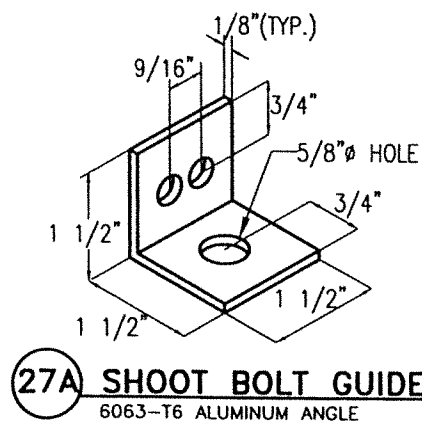
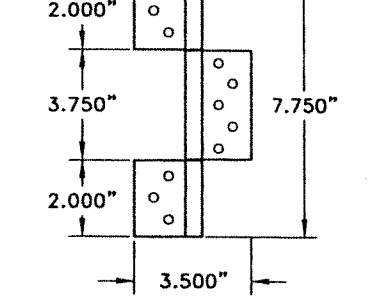
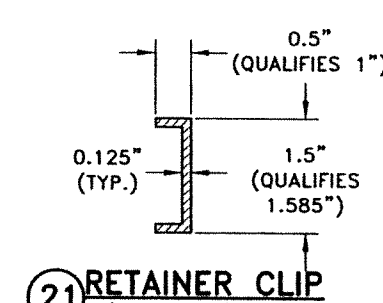
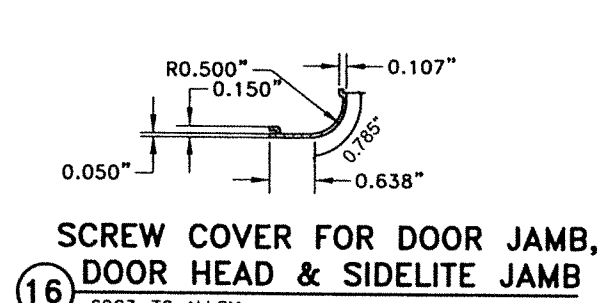
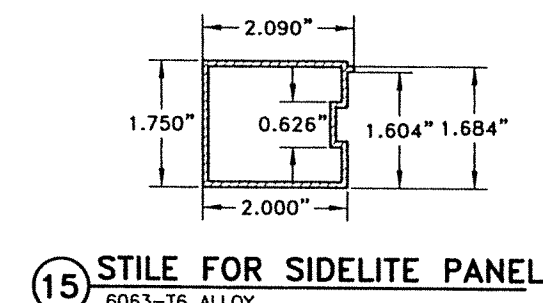
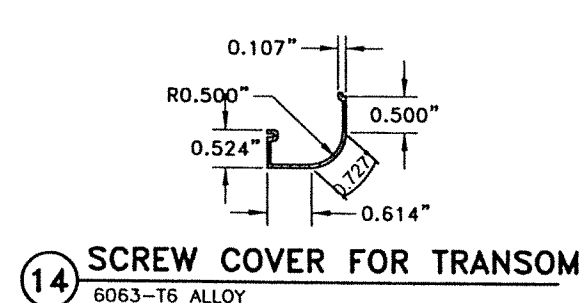
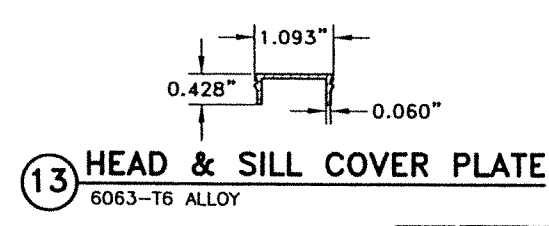
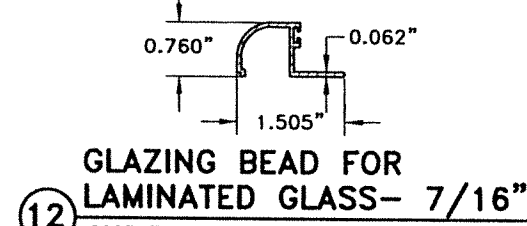
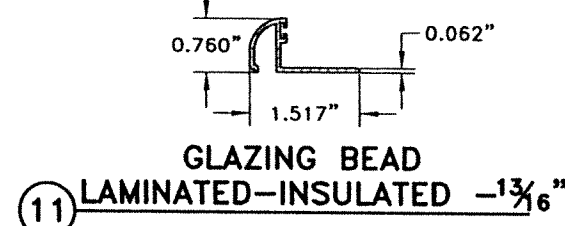
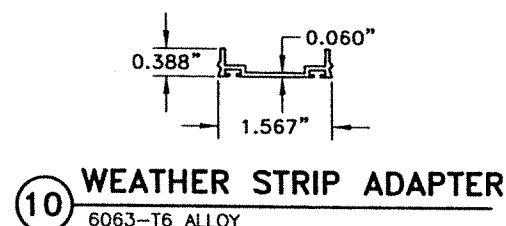
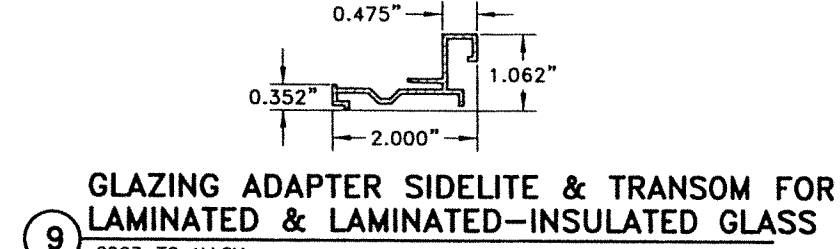
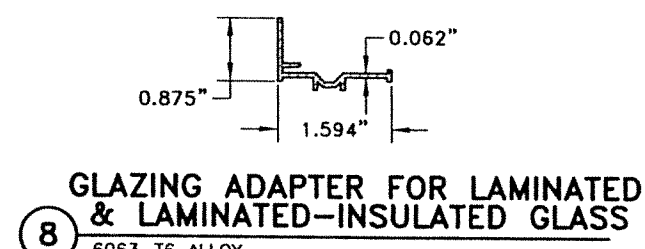
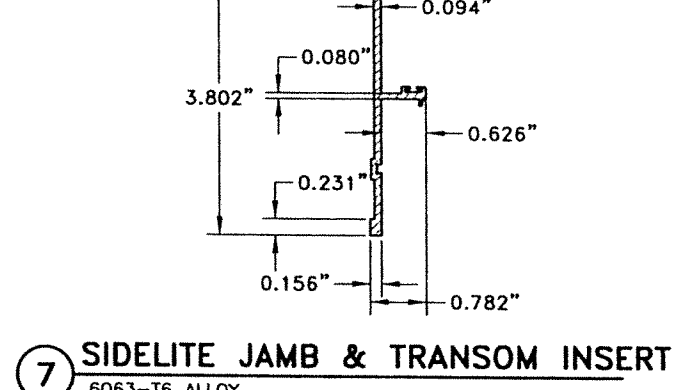
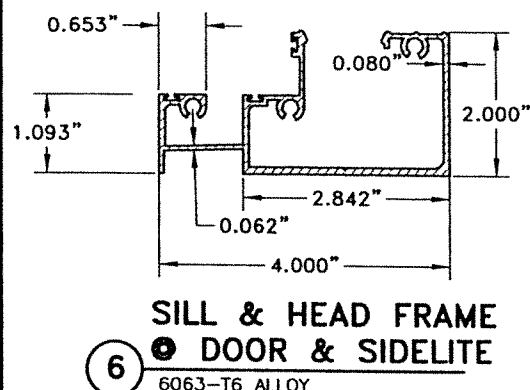
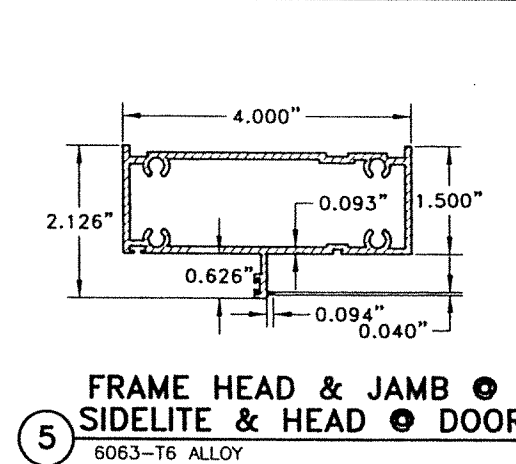
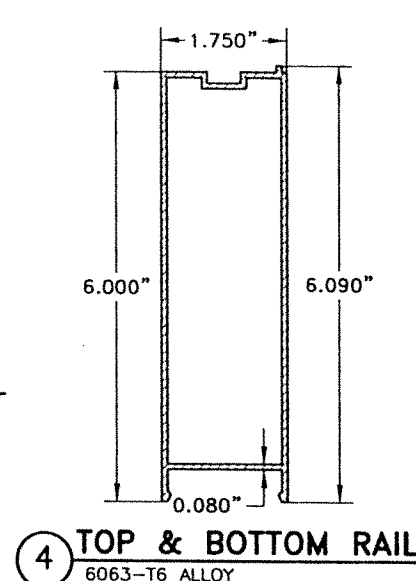
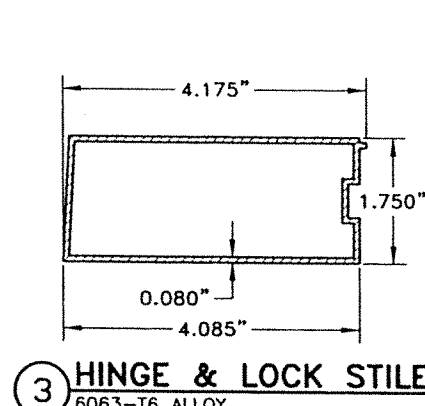
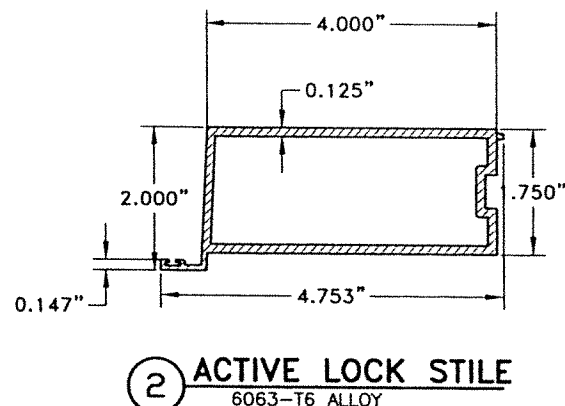
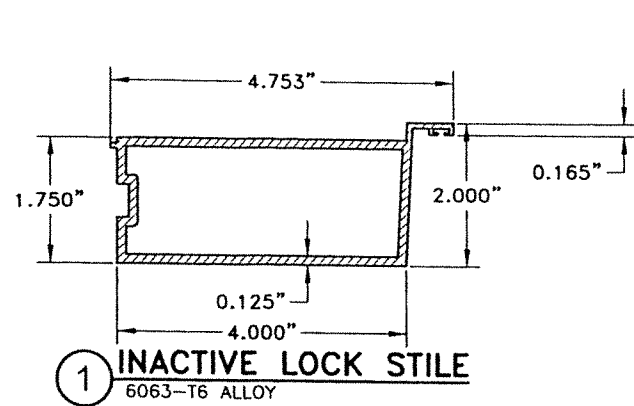
INDEX:

SHEETS 1 THRU 23: OPTIONAL SYSTEM #1
SHEETS 24 THRU 45: OPTIONAL SYSTEM #2

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

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

 P.E. SEAL/SIGNATURE/DATE	 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 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES  290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com	DRAWN BY W.H. 09/06/2023 DATE 23-209 DRAWING No
	REV. No. DESCRIPTION DATE 1 OLD 23-156 09/06/23	REV. No. DESCRIPTION DATE 2	SHEET 1 OF 45



COMPONENTS (OPTIONAL SYSTEM # 1)

SCALE: N.T.S

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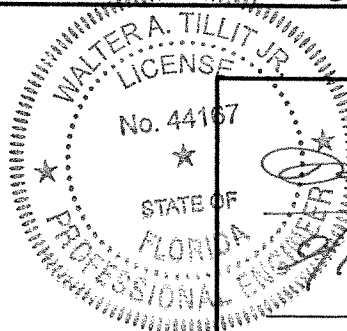
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DRAWING No

SHEET 2 OF 45

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 ON SHEET 1	STEEL
22A	TEK SCREW (ITW/BUILDEX)	1/4" Ø - SEE GENERAL NOTE 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 (DOOR FRAME JAMB)	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/ CYLINDER, LATCH & DEAD BOLT STRIKE, LEVER COMPRESSION LOCK	MANUFACTURED BY ASSA ABLOY	
29A	2 POINT LOCK ACTIVE HANDLE 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 (OPTION TO 3 AND 2 POINT LOCK) ASSA ABLOY, 7 mm ROD W/ (2) # 8 x 1/2" SMS TO STILE	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)	

OPTIONAL SYSTEM # 1



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

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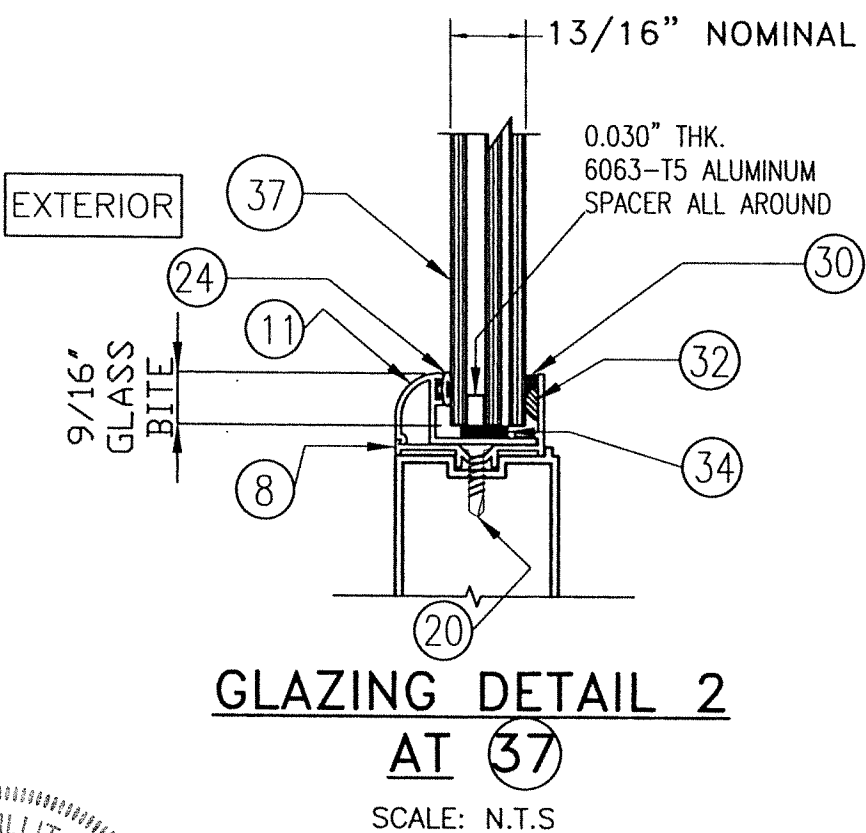
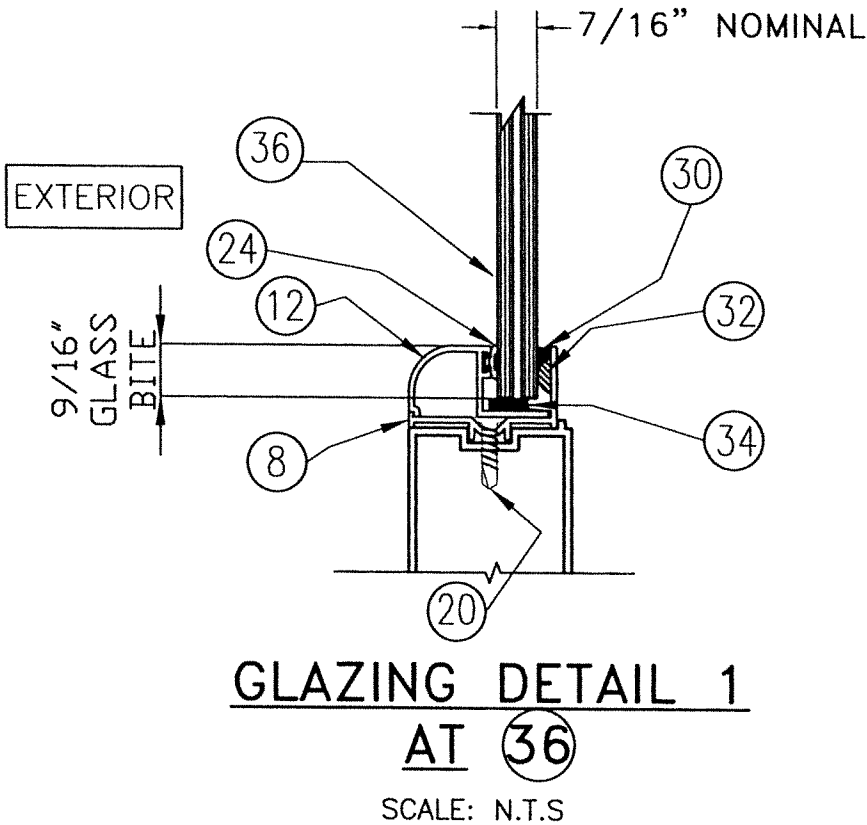
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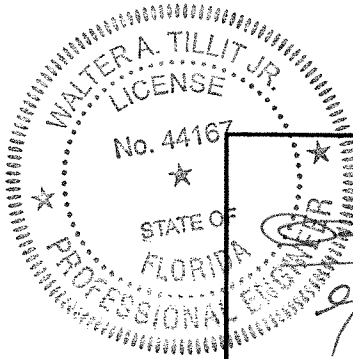
23-209
DRAWING No

SHEET 3 OF 45

BILL OF MATERIALS (CONT'D)		
COMPONENT #	DESCRIPTION	MATERIAL
36	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" DUPONT TROSIFOL 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" DUPONT TROSIFOL INTERLAYER BY KURARAY AMERICA INC., + 3/16" H.S. INBOARD	GLASS



OPTIONAL SYSTEM # 1



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SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES

DRAWN BY W.H.

09/06/2023 DATE

23-209 DRAWING No

290 WEST 78 ROAD HIALEAH, FL. 33014

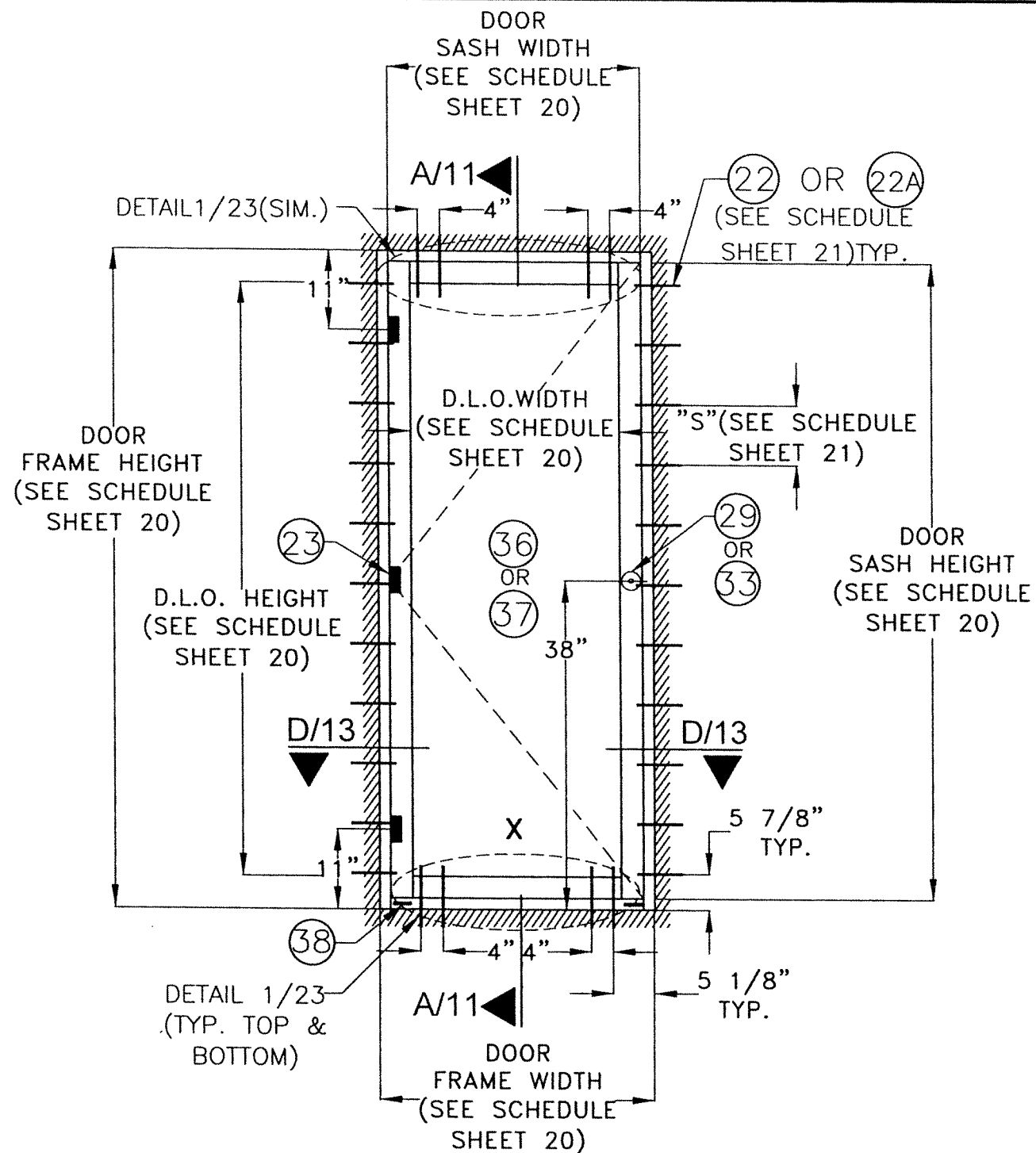
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SHEET 4 OF 45

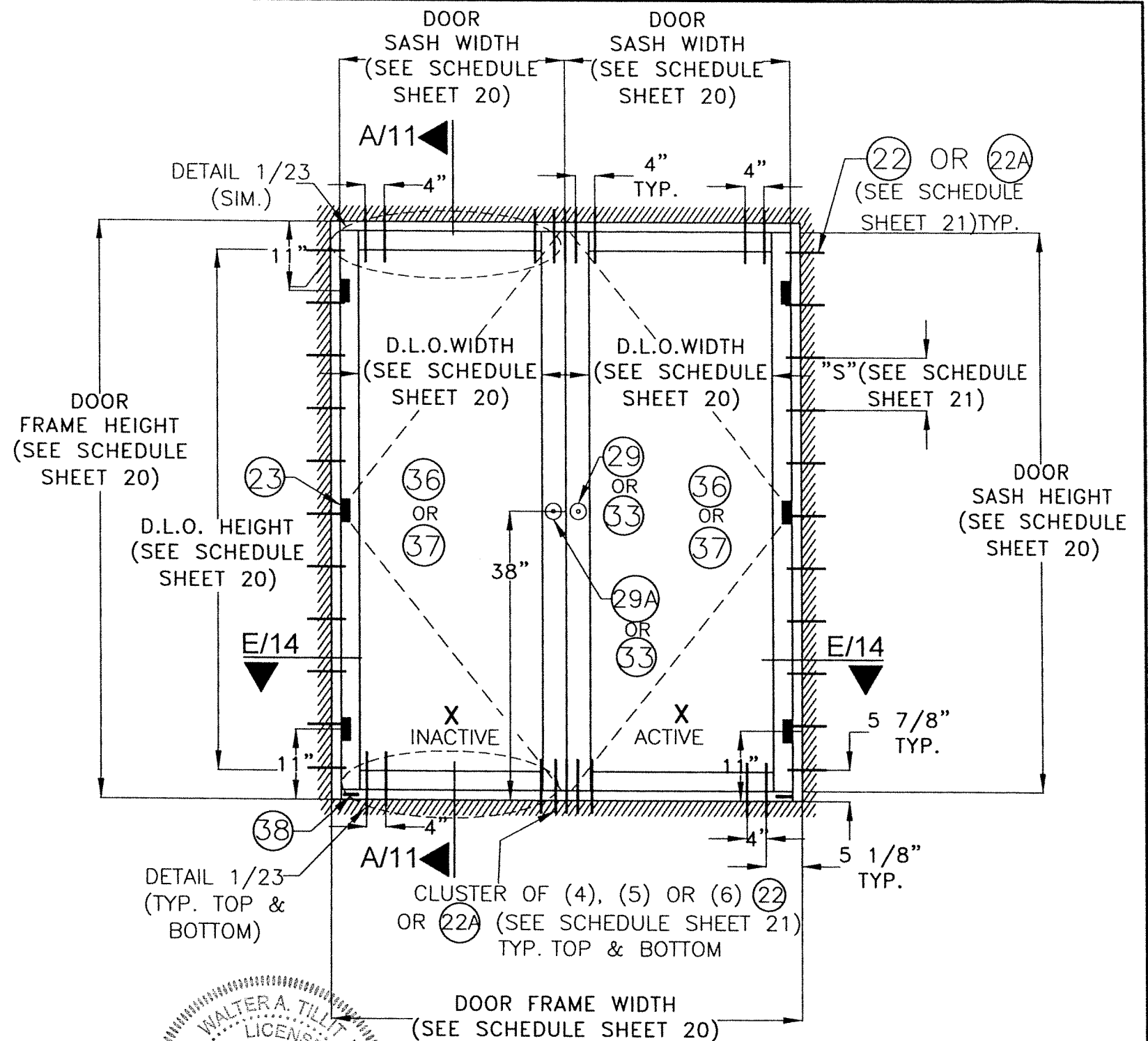


**TYPICAL EXTERIOR ELEVATION
SINGLE DOOR**

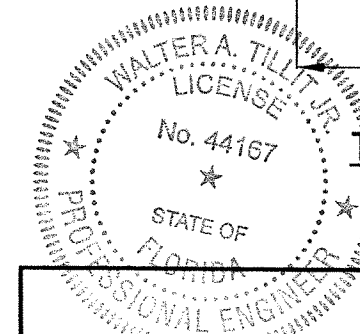
TYPICAL EXTERIOR ELEVATIONS FOR SINGLE & DOUBLE DOOR W/O TRANSOM NOR SIDELITES

SCALE: N.T.S

OPTIONAL SYSTEM # 1



**TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR**



Walter A. Tillit Jr.
9/19/2023

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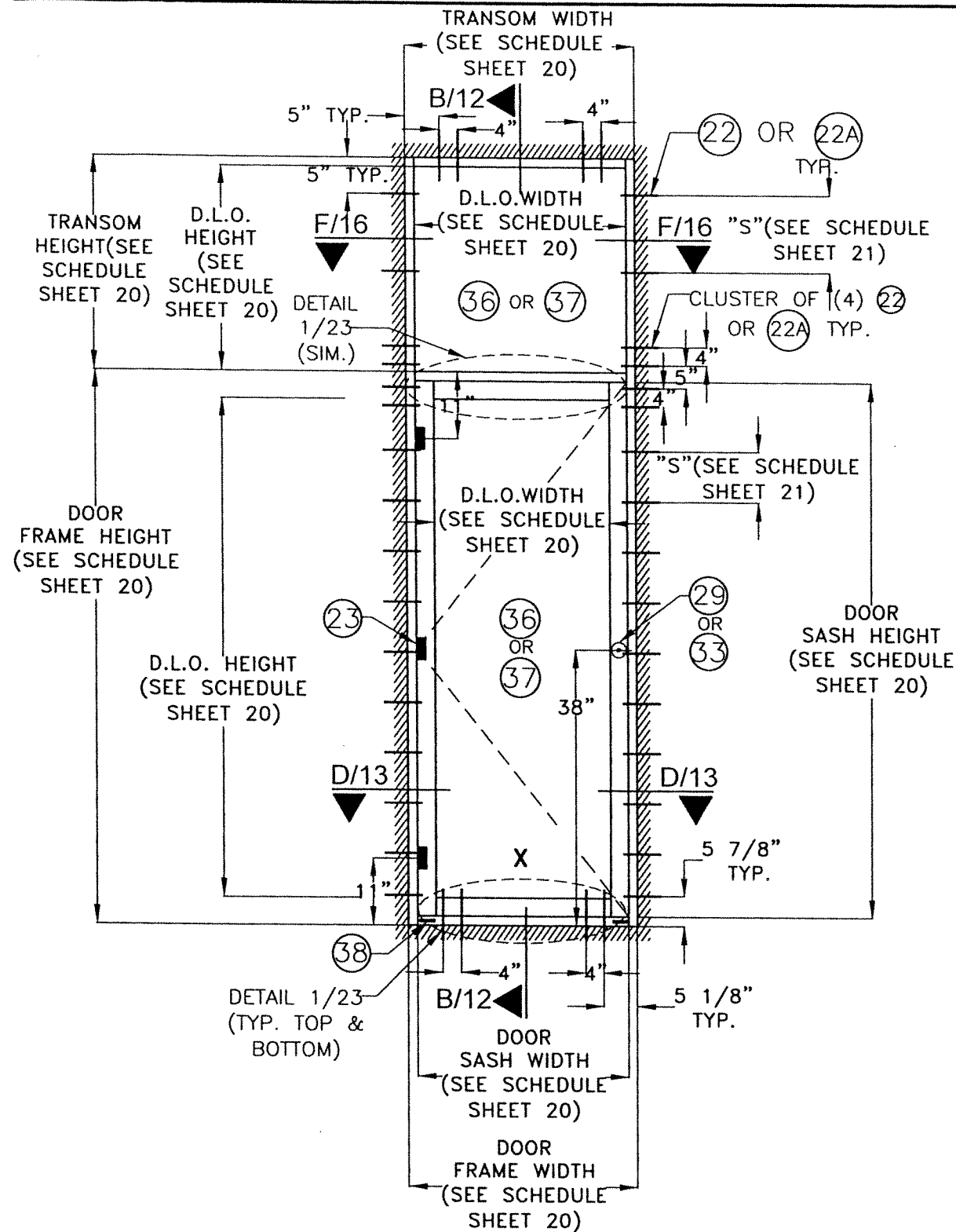
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W.H.

09/06/2023
DATE

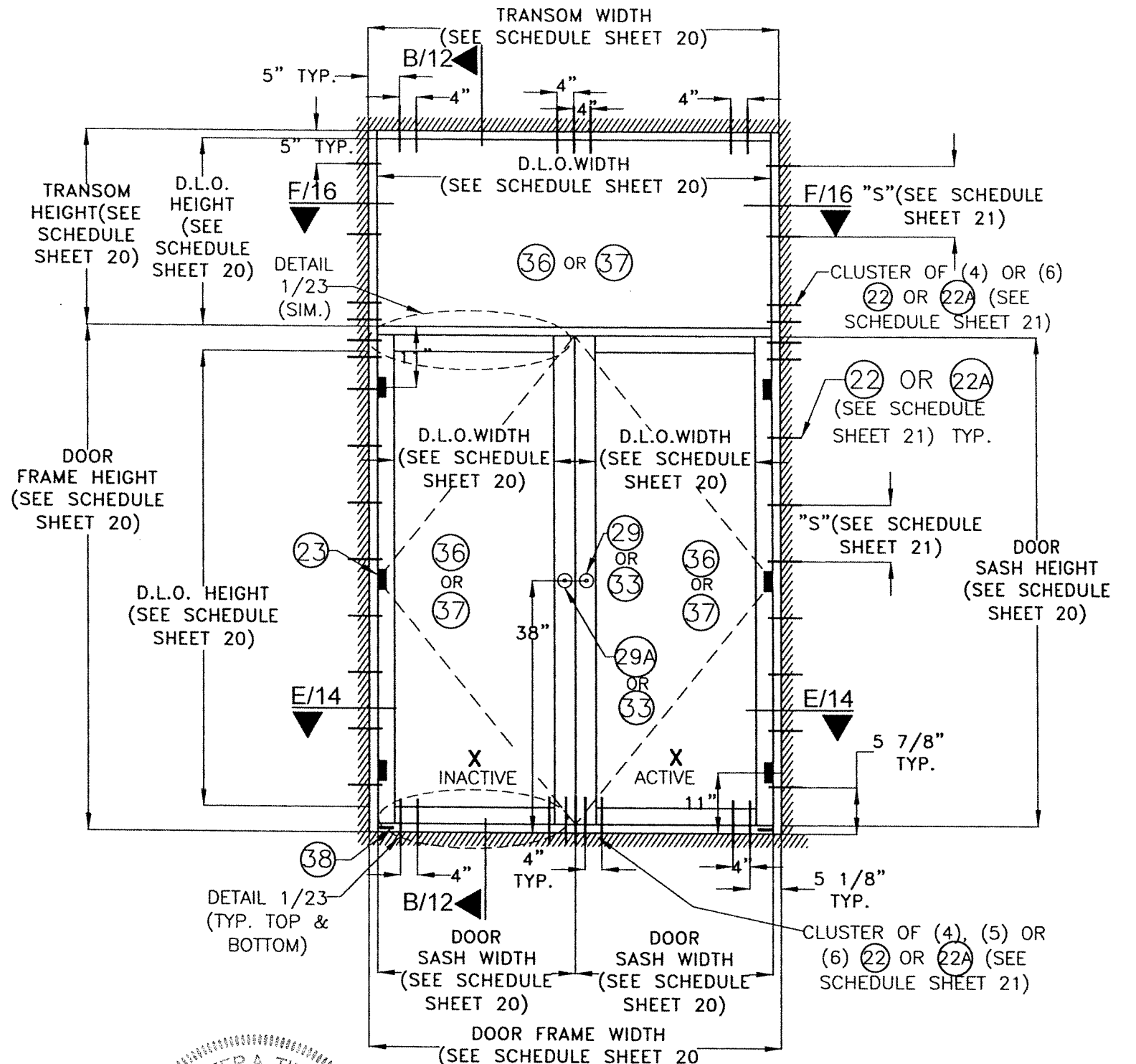
23-209
DRAWING No

SHEET 5 OF 45

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		



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



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

**TYPICAL EXTERIOR ELEVATIONS FOR SINGLE
& DOUBLE DOOR W/ TRANSOM**
SCALE: N.T.S.
OPTIONAL SYSTEM # 1

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
9/19/2023
P.E. SEAL/SIGNATURE/DATE

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CA-0008719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

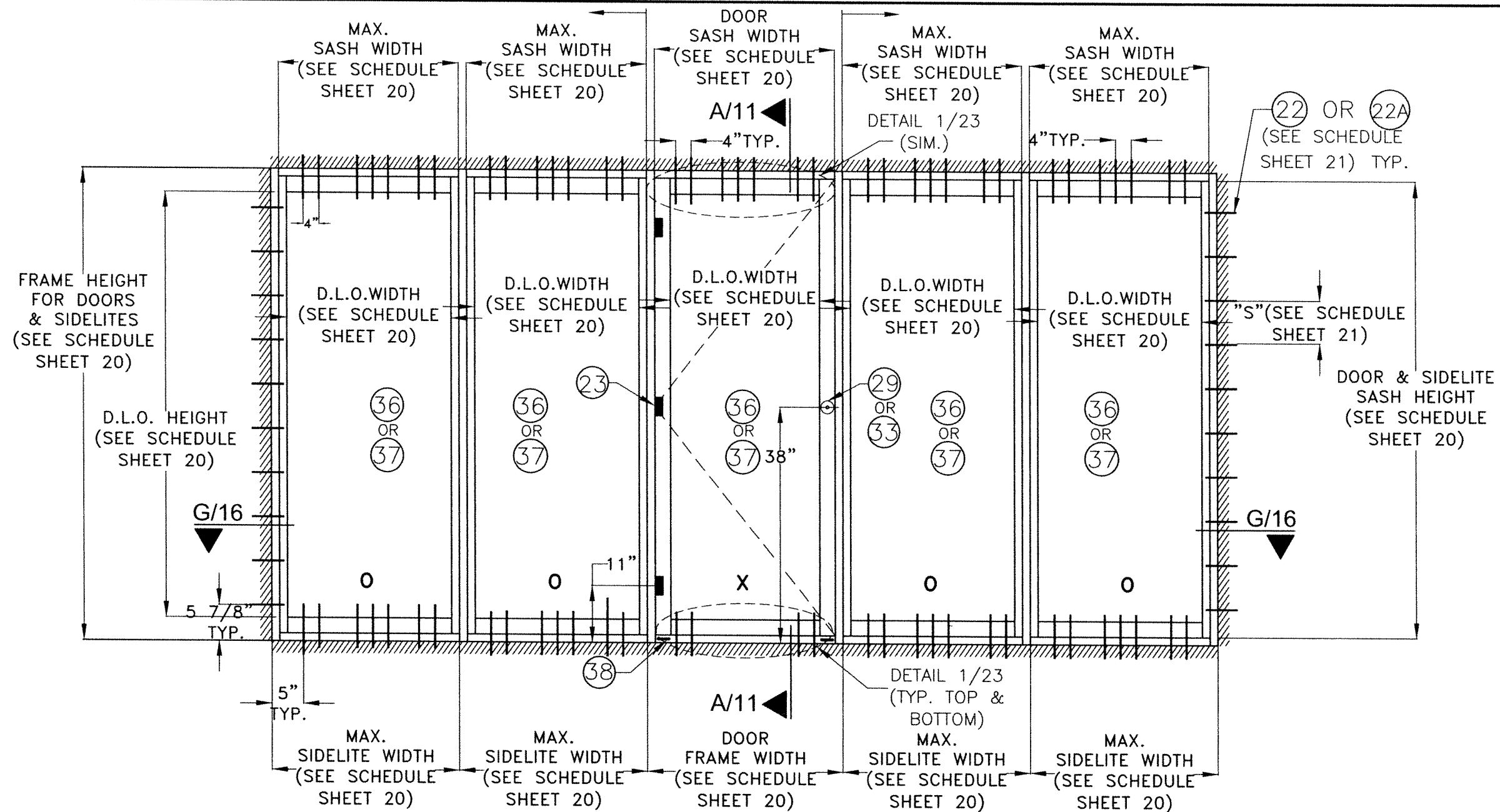
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

**SERIES 24000 LMSZ IMPACT RESISTANT
OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES**

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SHEET 6 OF 45



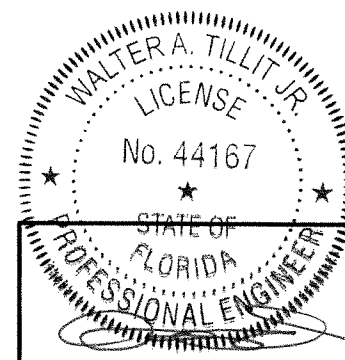
TYPICAL EXTERIOR ELEVATION OF SINGLE DOOR W/ SIDELITES *

SCALE: N.T.S

NOTE: *

- (I) SINGLE OR DOUBLE FRENCH DOORS MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDELITES TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
 - (I.1) INTERIOR MULLIONS BETWEEN SIDELITES SHALL ALWAYS CONSIST OF MULLION DESCRIBED ON SECTIONS G,H,I,J SHEETS 16 THRU 19, ADDITIONALLY ON SECTIONS X,Y SHEET 19A.
 - (I.2) DOOR JAMB MULLIONS SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS G,H,I,J SHEETS 16 THRU 19, ADDITIONALLY ON SECTIONS X,Y SHEET 19A.
 - (I.3) JAMBS AT SIDELITES SHALL ALWAYS BE ATTACHED TO EXISTING SUBSTRATES W/ ANCHORS AS PER GENERAL NOTE 9, SHEET 1 & AT SPACINGS PER SCHEDULE ON SHEET 21.
 - (I.4) TOP & BOTTOM ANCHORS FOR INTERIOR MULLIONS BETWEEN SIDELITES AS WELL AS DOOR JAMB MULLIONS SHALL BE AS INDICATED ON ELEVATIONS SHEETS 7 THRU 10 ADDITIONALLY DOOR JAMB MULLION ELEVATION ON SHEET 19A AND SCHEDULES ON SHEET 21.
- (II) SUCCESSIVE SIDELITES MAY BE INSTALLED AT RESIDENTIAL BUILDINGS AS LONG AS THE FOLLOWING PROCEDURE AND REQUIREMENTS APPLY.
 - (II.1) JAMBS ARE ATTACHED TO EXISTING SUBSTRATE AT BUILDINGS W/ANCHORAGE AS PER SCHEDULES ON SHEET 21.
 - (II.2) INTERIOR MULLIONS BETWEEN SIDELITES SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS G,H,I,J, SHEETS 16 THRU 19, ADDITIONALLY ON SECTIONS X,Y SHEET 19A.
 - (II.3) INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 21.

OPTIONAL SYSTEM #1



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

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

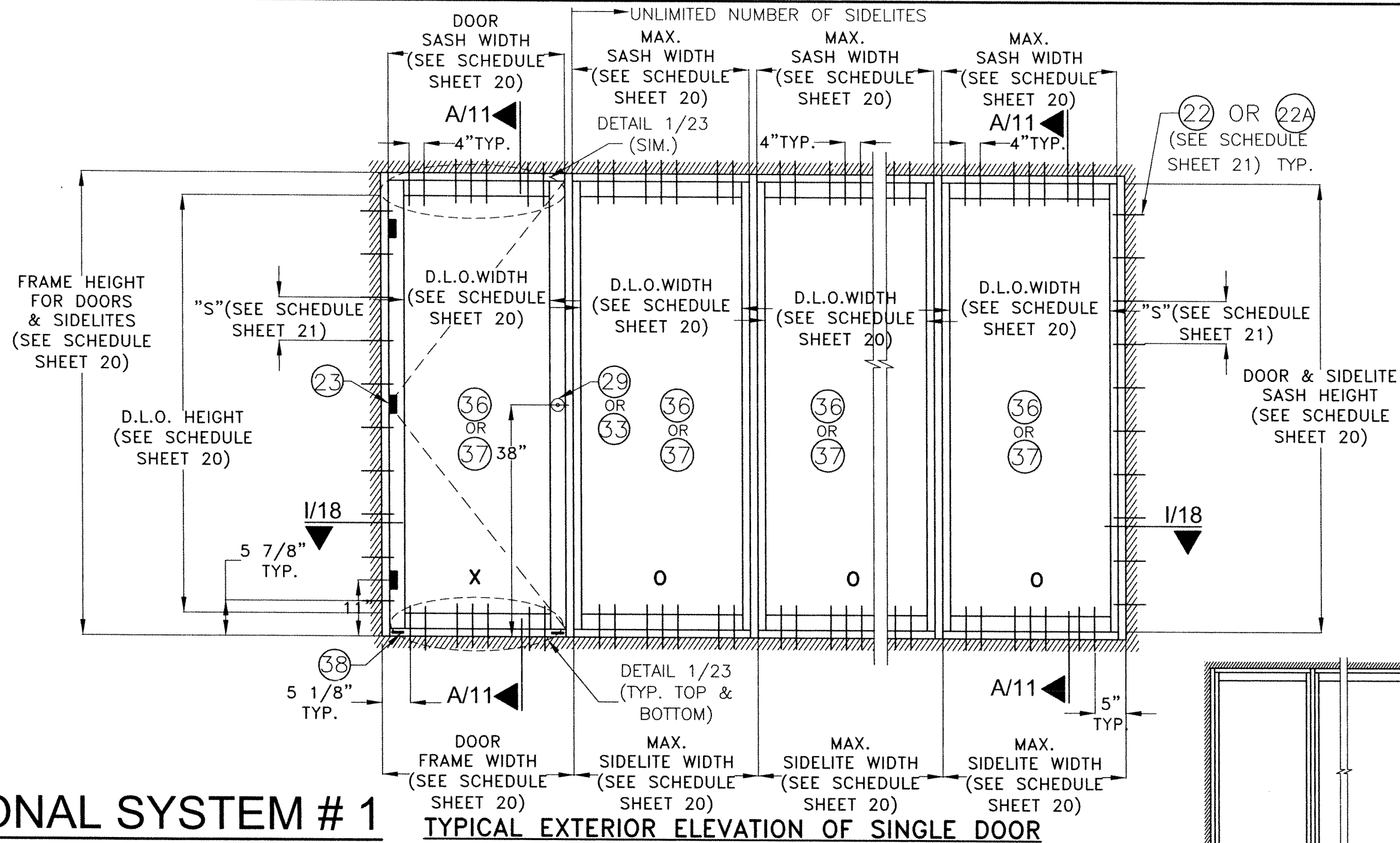
**SERIES 24000 LMSZ IMPACT RESISTANT
 OUTSWING FRENCH DOOR W/ TRANSOM
 OR W/ SIDELITES**



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 SHEET 7 OF 45



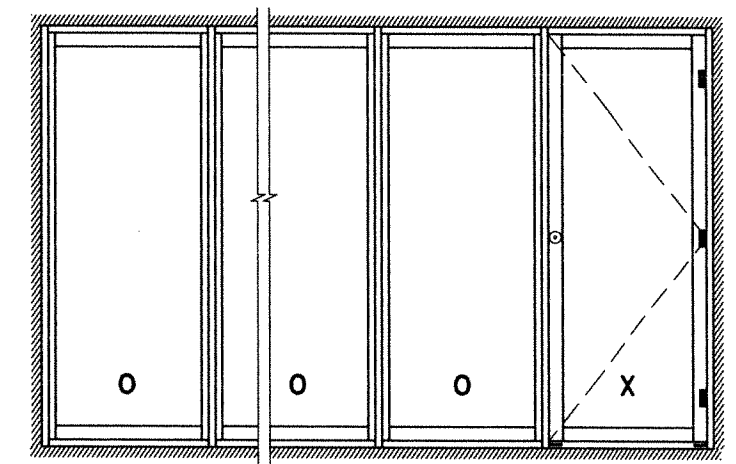
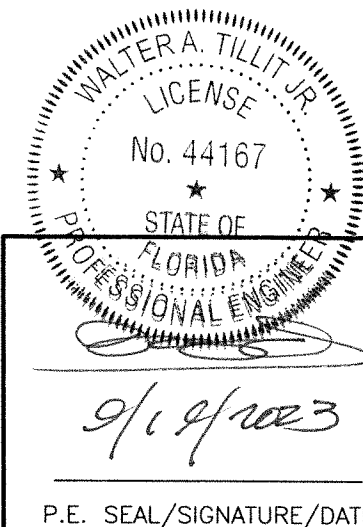
OPTIONAL SYSTEM # 1

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

NOTE: *

- (I) SINGLE OR DOUBLE FRENCH DOORS MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDELITES TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
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 - (II.2) INTERIOR MULLIONS BETWEEN SIDELITES SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS G,H,I,J, SHEETS 16 THRU 19, ADDITIONALLY ON SECTIONS X,Y SHEET 19A.
 - (II.3) INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ ANCHORAGE PER SCHEDULES SHEET 21.

SCALE: N.T.S



** QUALIFIES MIRROR
CONFIGURATION TOO.

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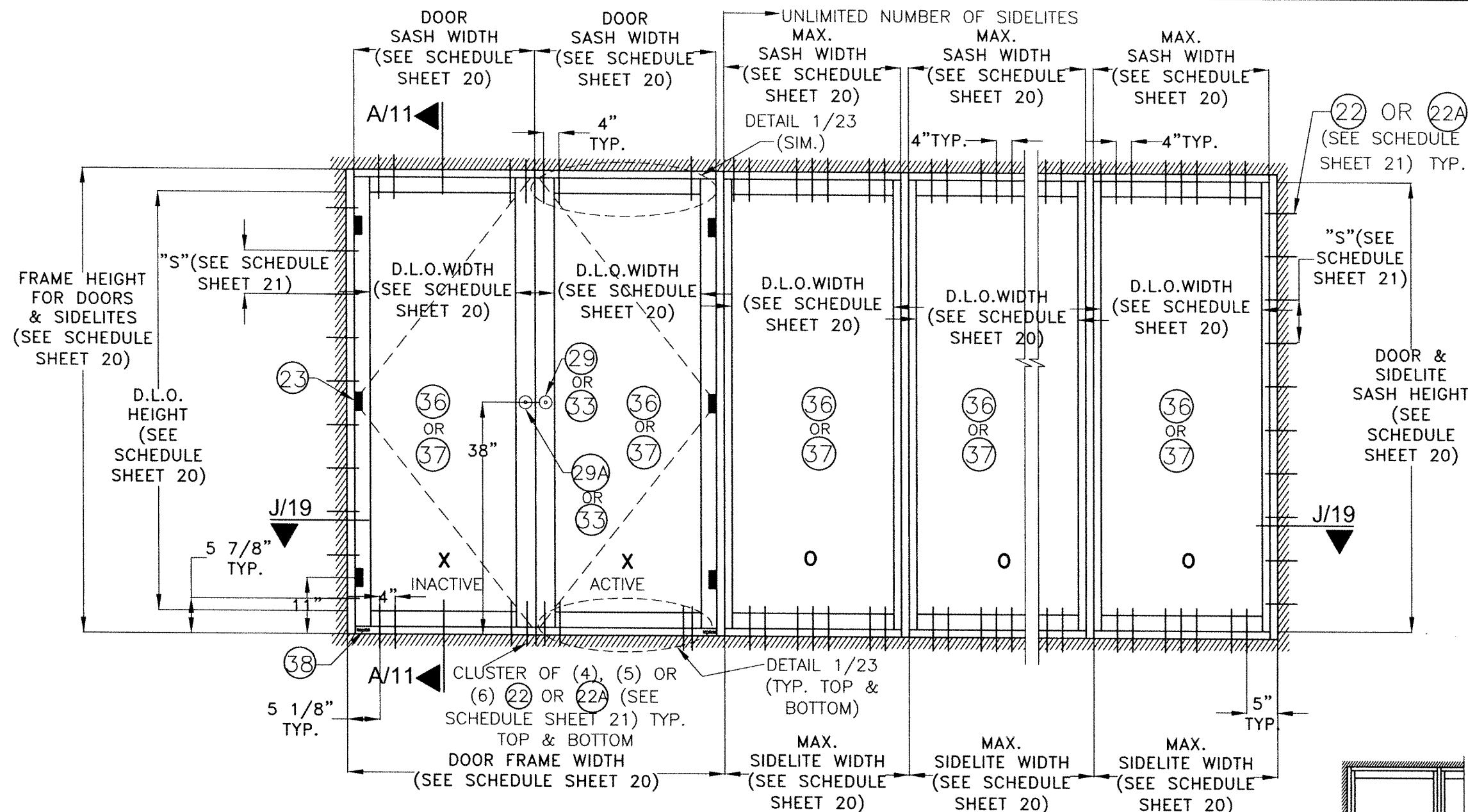
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W.H.

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SHEET 9 OF 45

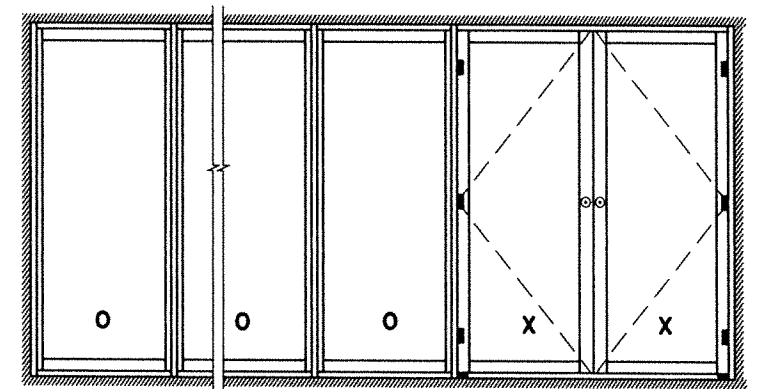


OPTIONAL SYSTEM # 1 **TYPICAL EXTERIOR ELEVATION OF DOUBLE** **DOOR W/ SIDELITES *, ****

SCALE: N.T.S

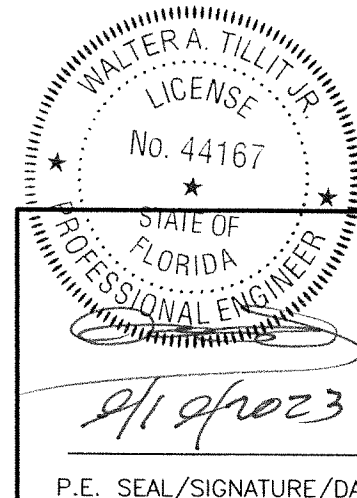
NOTE: *

- (I) SINGLE OR DOUBLE FRENCH DOORS MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDELITES TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
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- (II) SUCCESSIVE SIDELITES MAY BE INSTALLED AT RESIDENTIAL BUILDINGS AS LONG AS THE FOLLOWING PROCEDURE AND REQUIREMENTS APPLY.
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 - (II.3) INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 21.



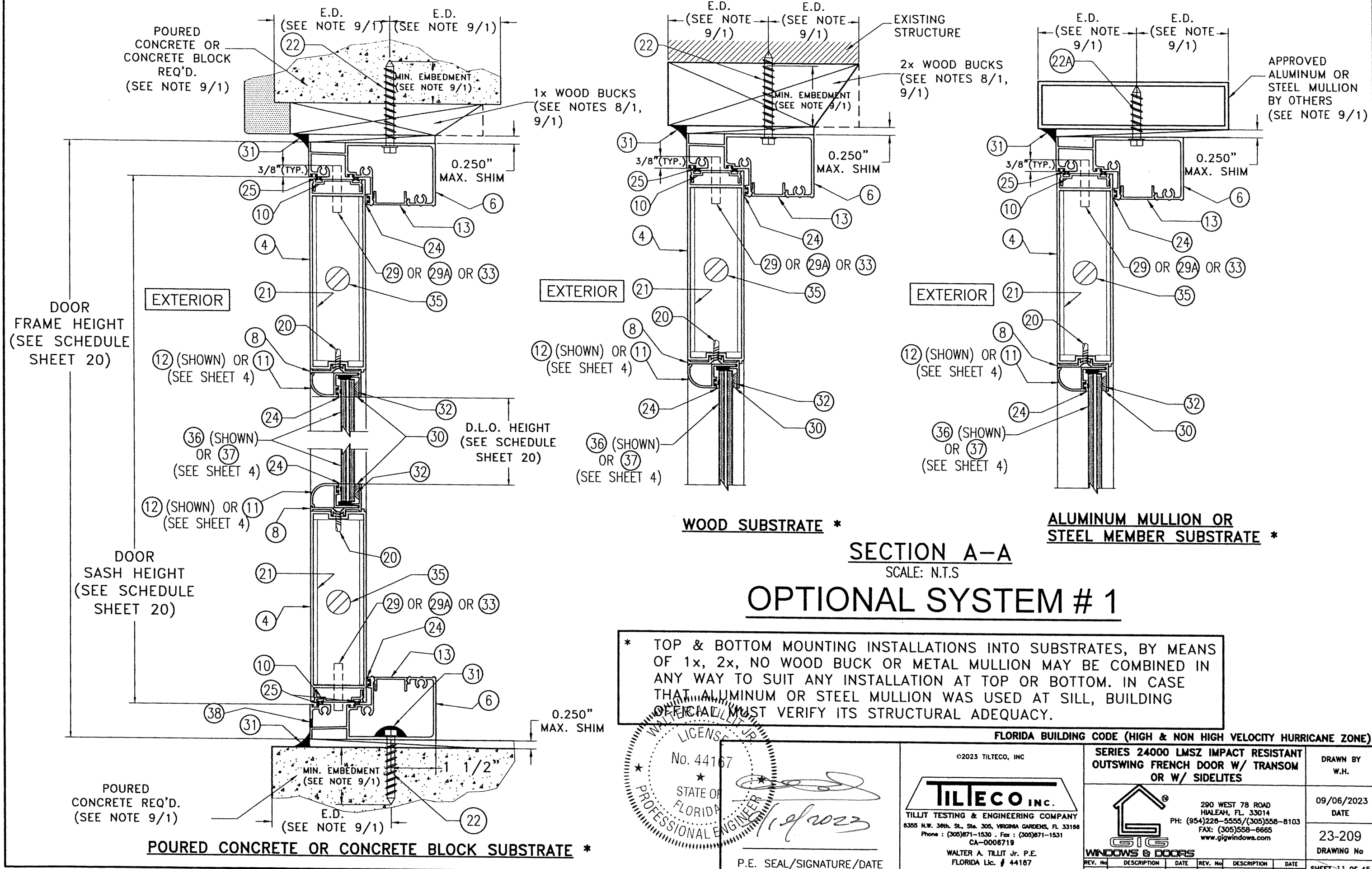
**** QUALIFIES MIRROR CONFIGURATION TOO.**

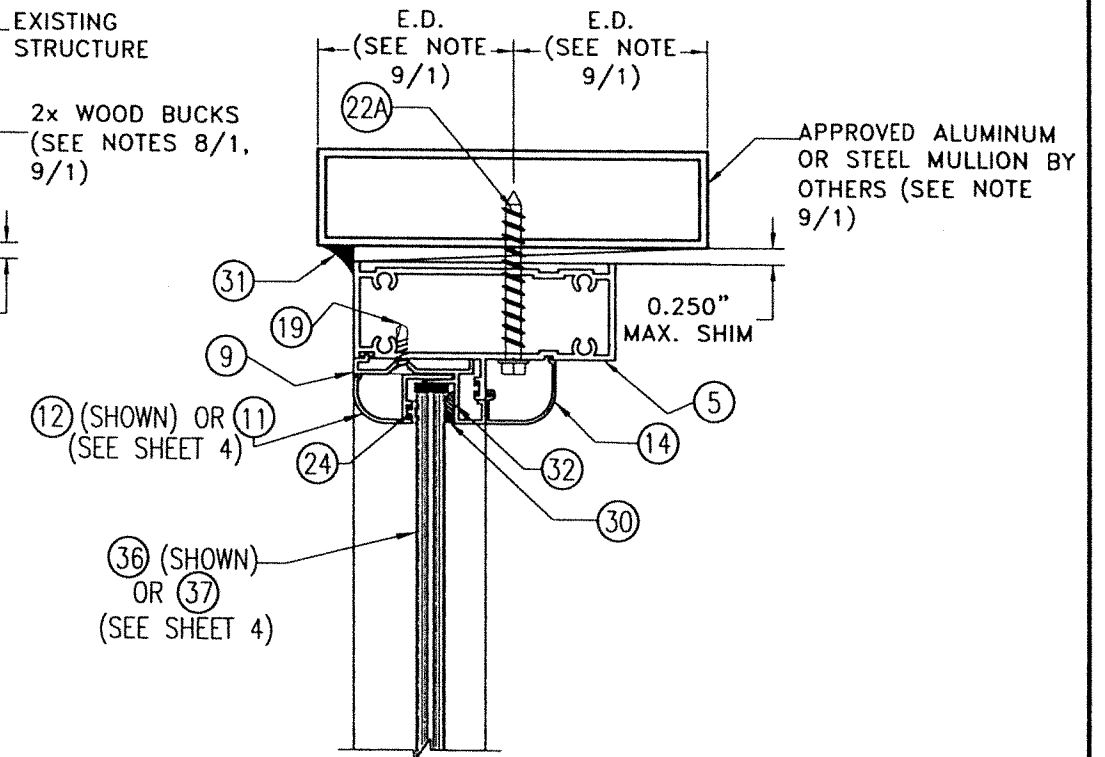
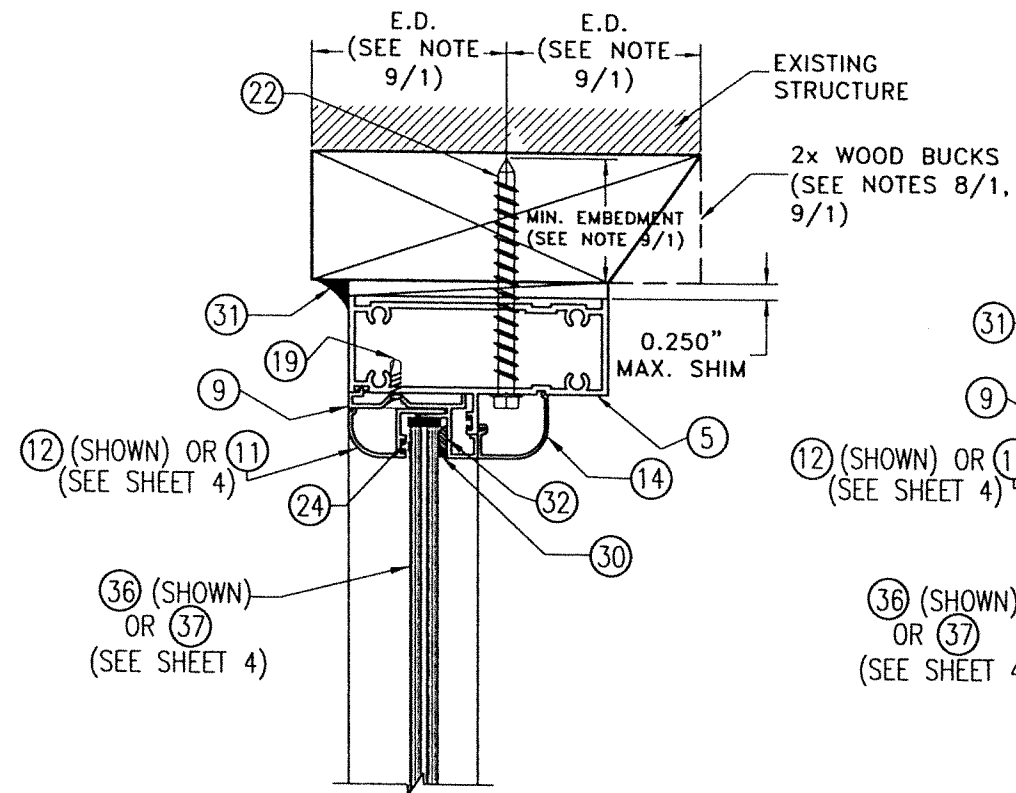
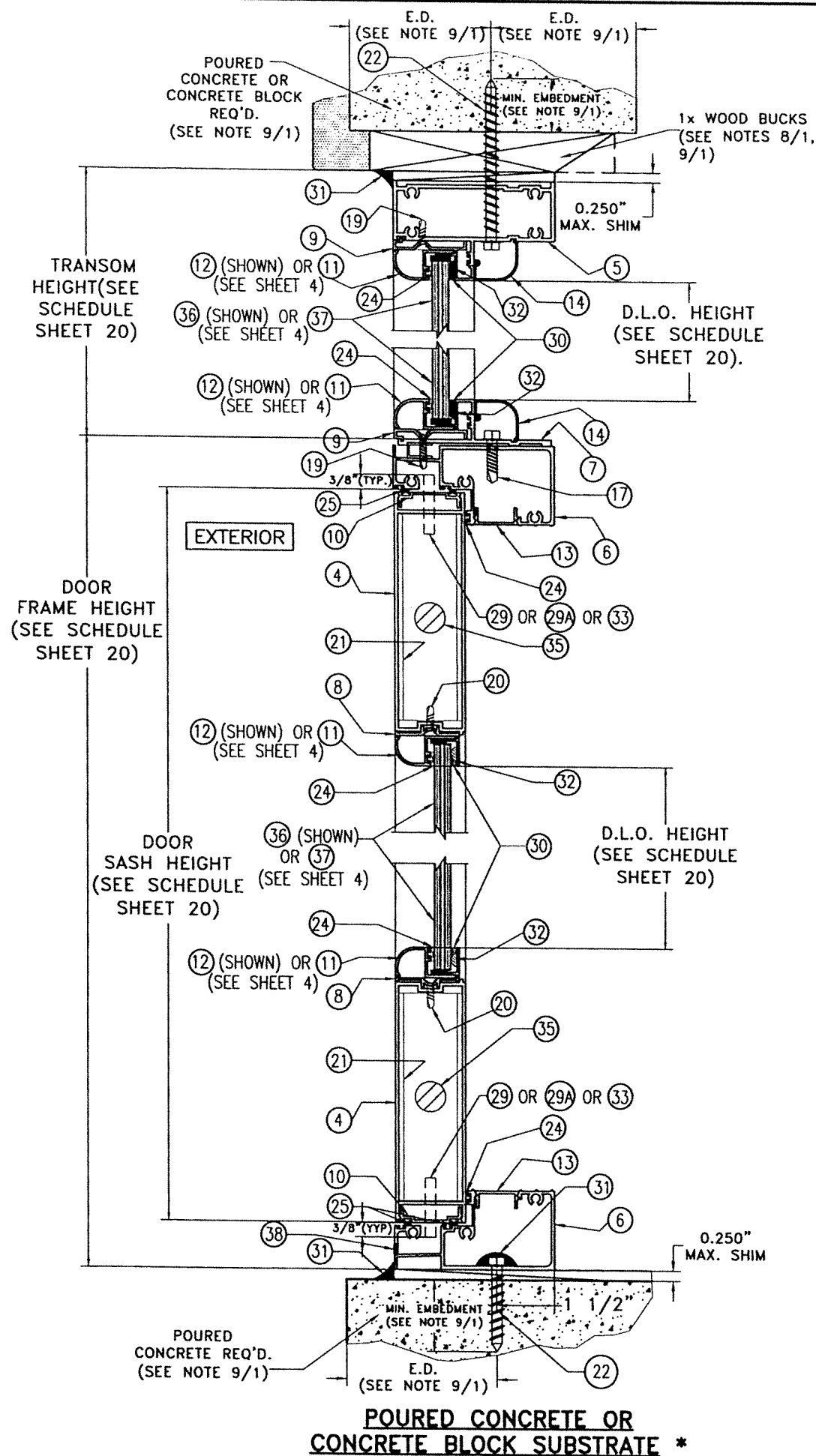
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 10 OF 45	
1	OLD 23-156	09/06/23	2				





WOOD SUBSTRATE *

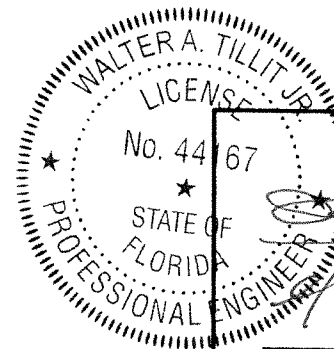
**ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE ***

SECTION B-B

SCALE: N.T.S

OPTIONAL SYSTEM # 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.



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OR W/ SIDELITES**

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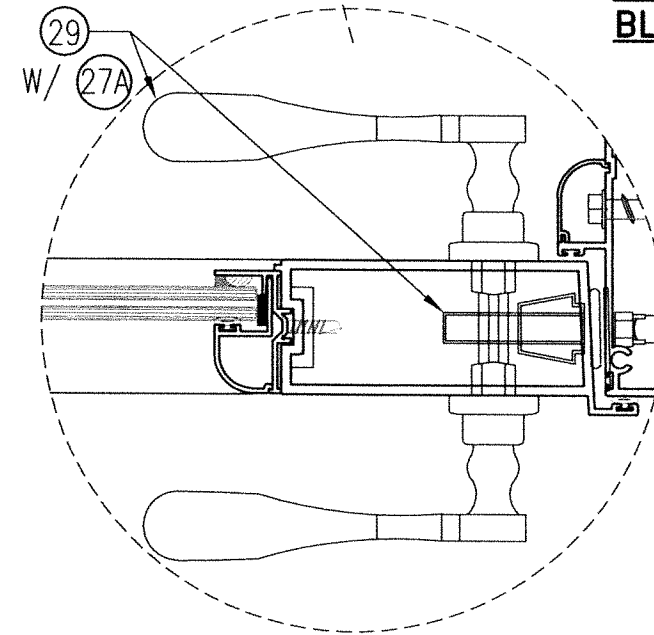
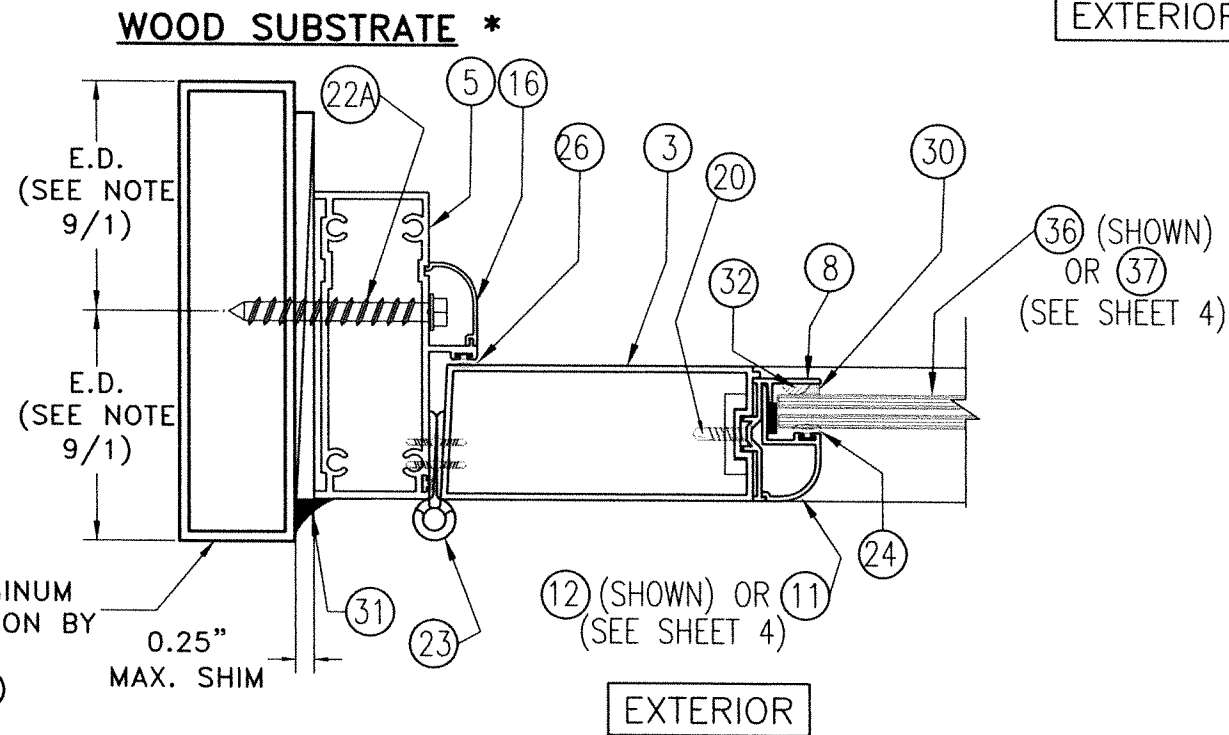
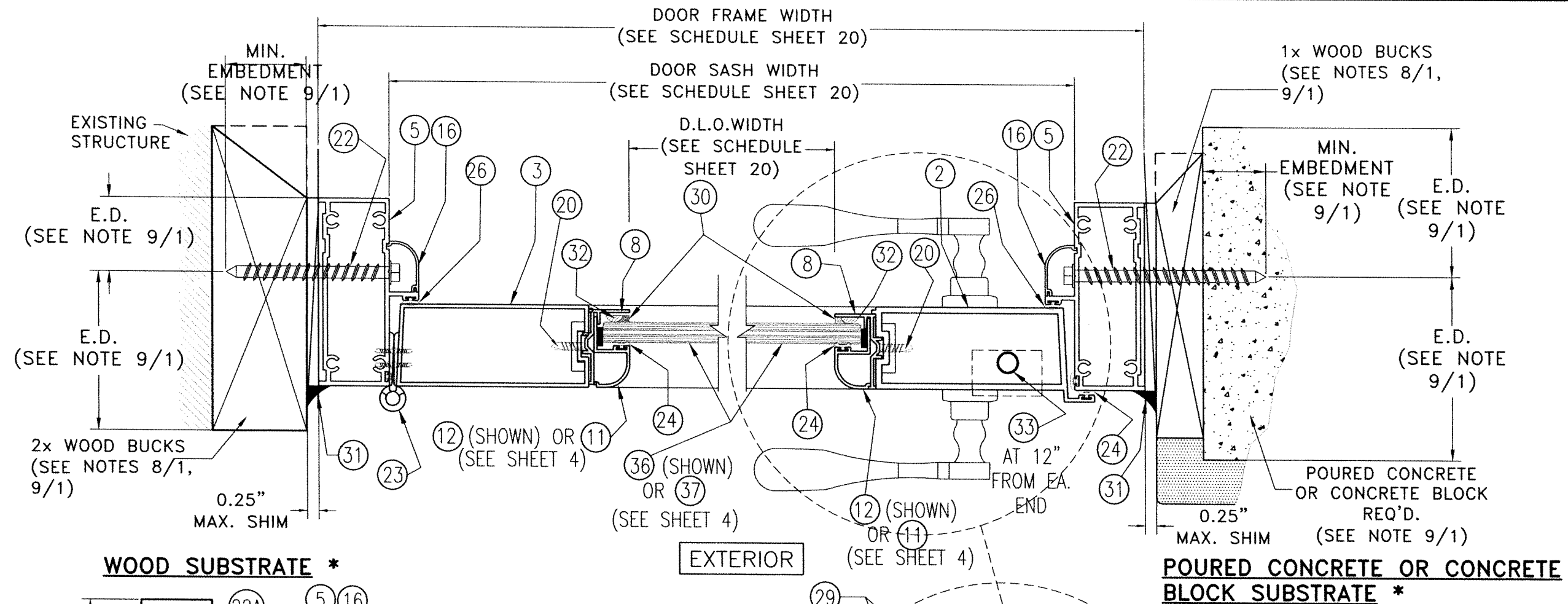
23-209
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SHEET 12 OF 45



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1	OLD 23-156	09/06/23	2		



* JAMB 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 JAMBS.

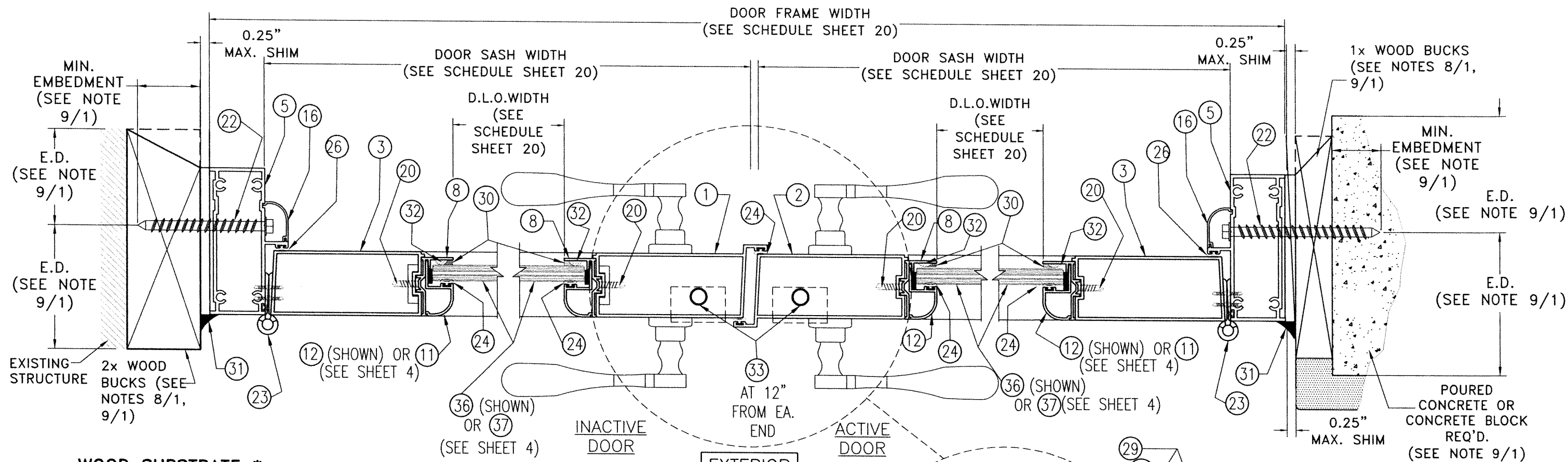
APPROVED ALUMINUM OR STEEL MULLION BY OTHERS. (SEE NOTE 9/1)

ALUMINUM MULLION OR STEEL MEMBER SUBSTRATE *
SECTION D-D @ SINGLE DOOR
 SCALE: N.T.S
OPTIONAL SYSTEM # 1

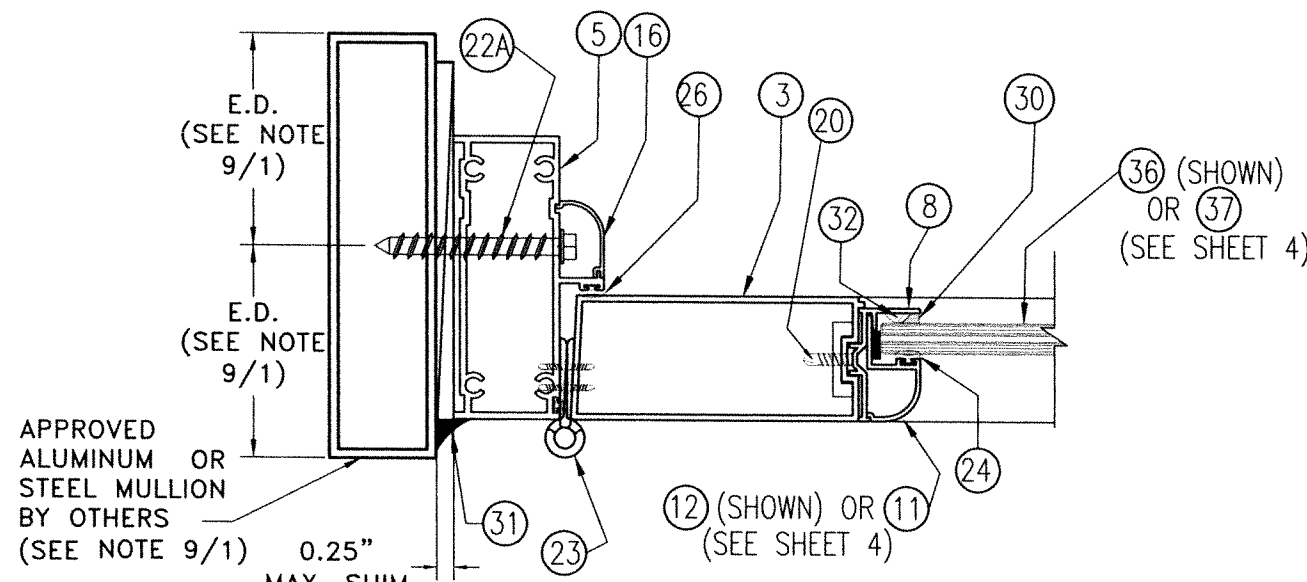
VARIANCE W/ (29)
 WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 P.E. SEAL/SIGNATURE/DATE

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REV. No 1 DESCRIPTION OLD 23-156 DATE 09/06/23	REV. No 2 DESCRIPTION DATE	SHEET 13 OF 45	



WOOD SUBSTRATE *



**ALUMINUM MULLION
OR STEEL MEMBER
SUBSTRATE ***

SECTION E-E @ DOUBLE DOOR

SCALE: N.T.S

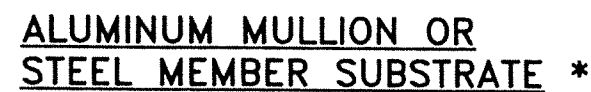
OPTIONAL SYSTEM # 1

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

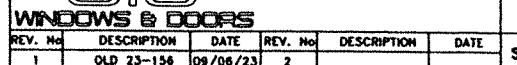
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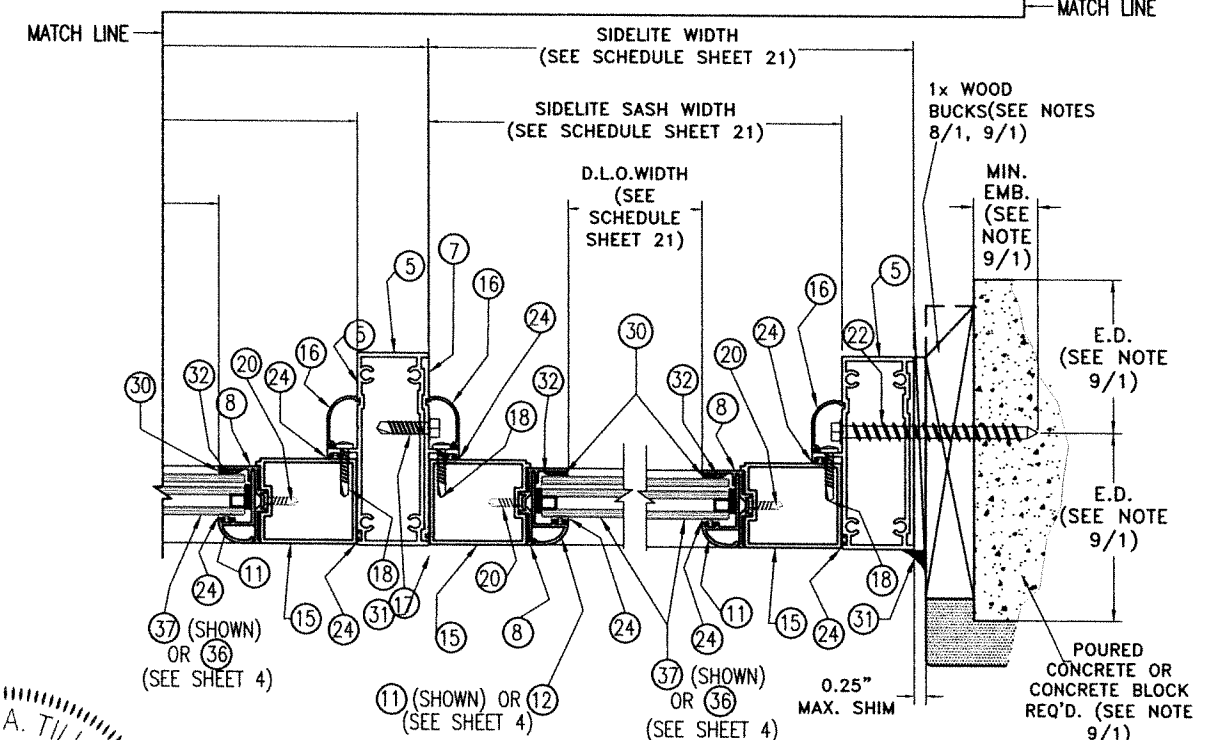
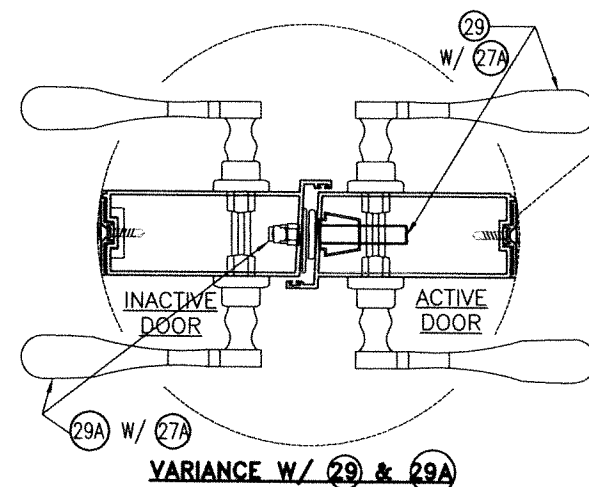
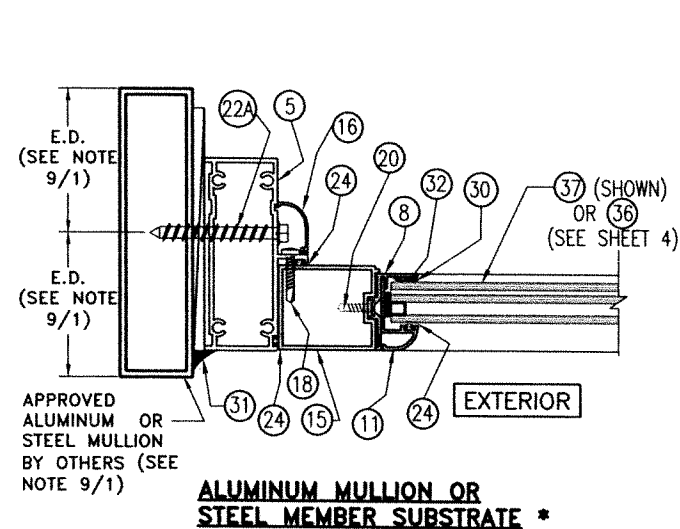
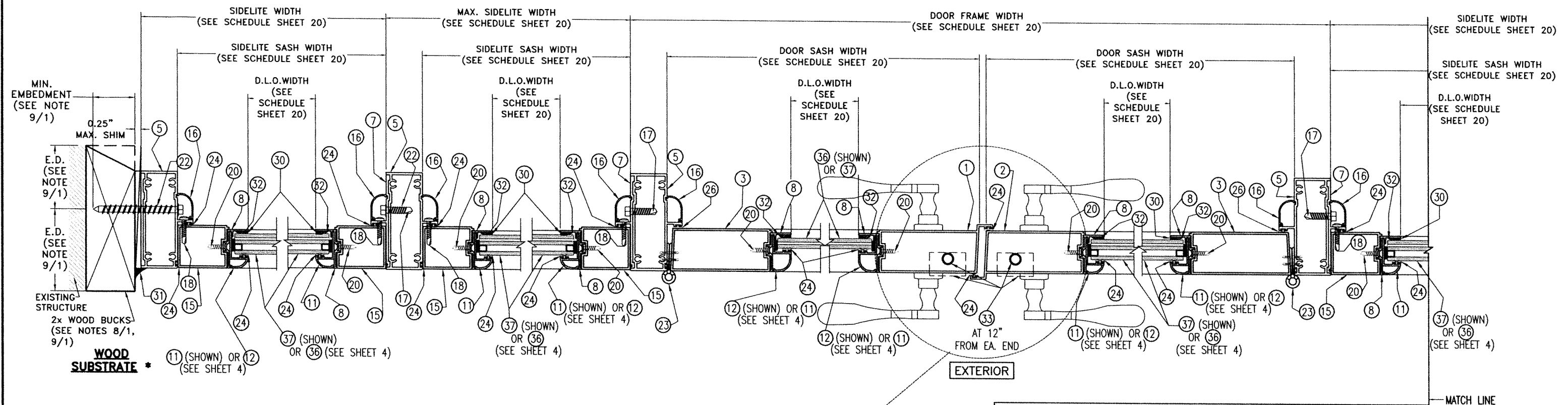
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES						DRAWN BY W.H.	
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OPTIONAL SYSTEM # 1



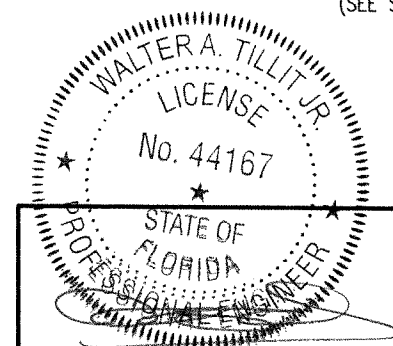


* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

SECTION H-H DOUBLE DOOR W/ SIDELITES

SCALE: N.T.S

OPTIONAL SYSTEM # 1



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OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES**

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09/06/2023
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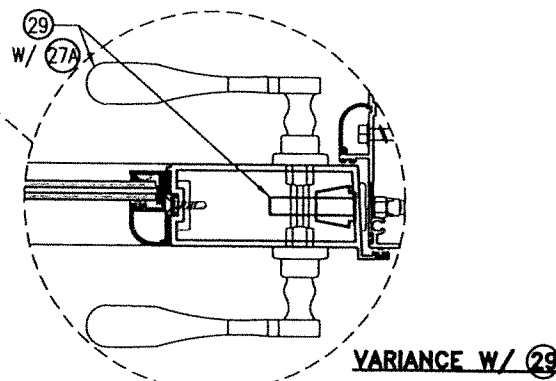
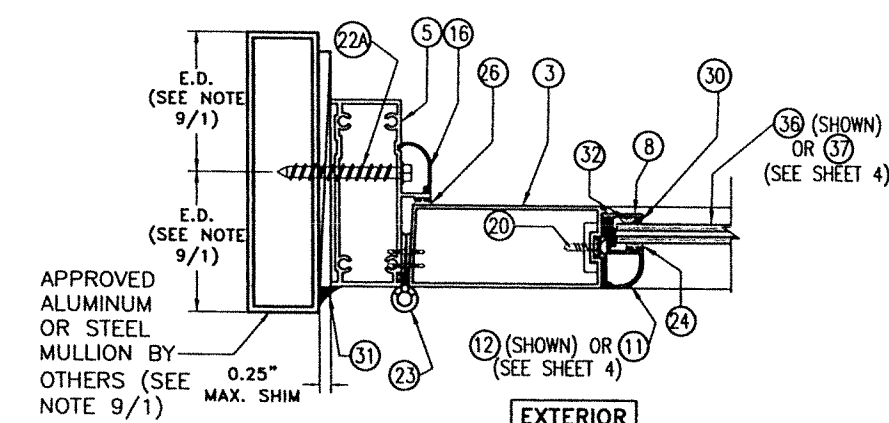
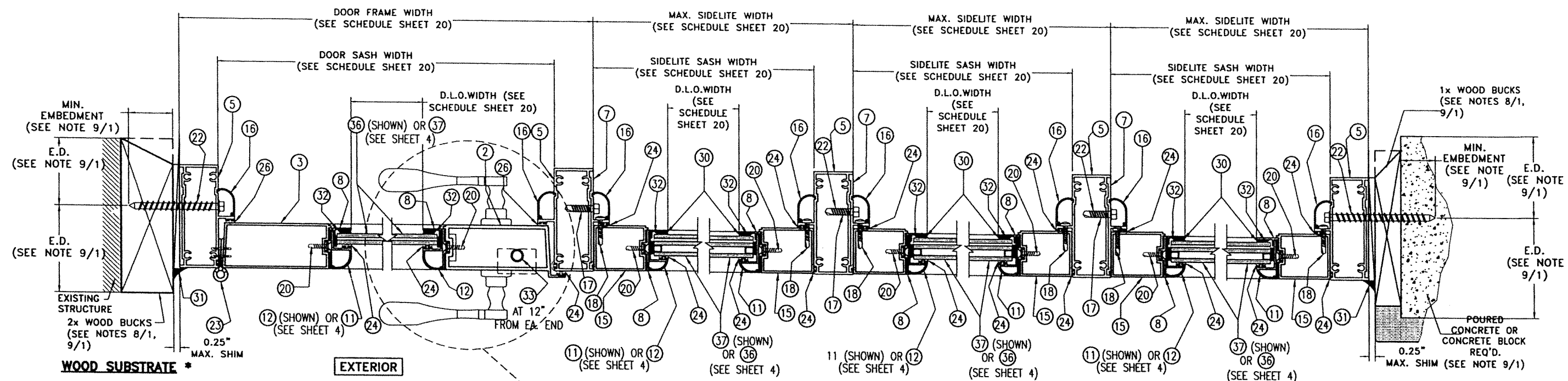


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SHEET 17 OF 45

SHEET 17 OF 45



SECTION I-I SINGLE DOOR W/ SIDELITES SCALE: N.T.S

OPTIONAL SYSTEM # 1

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

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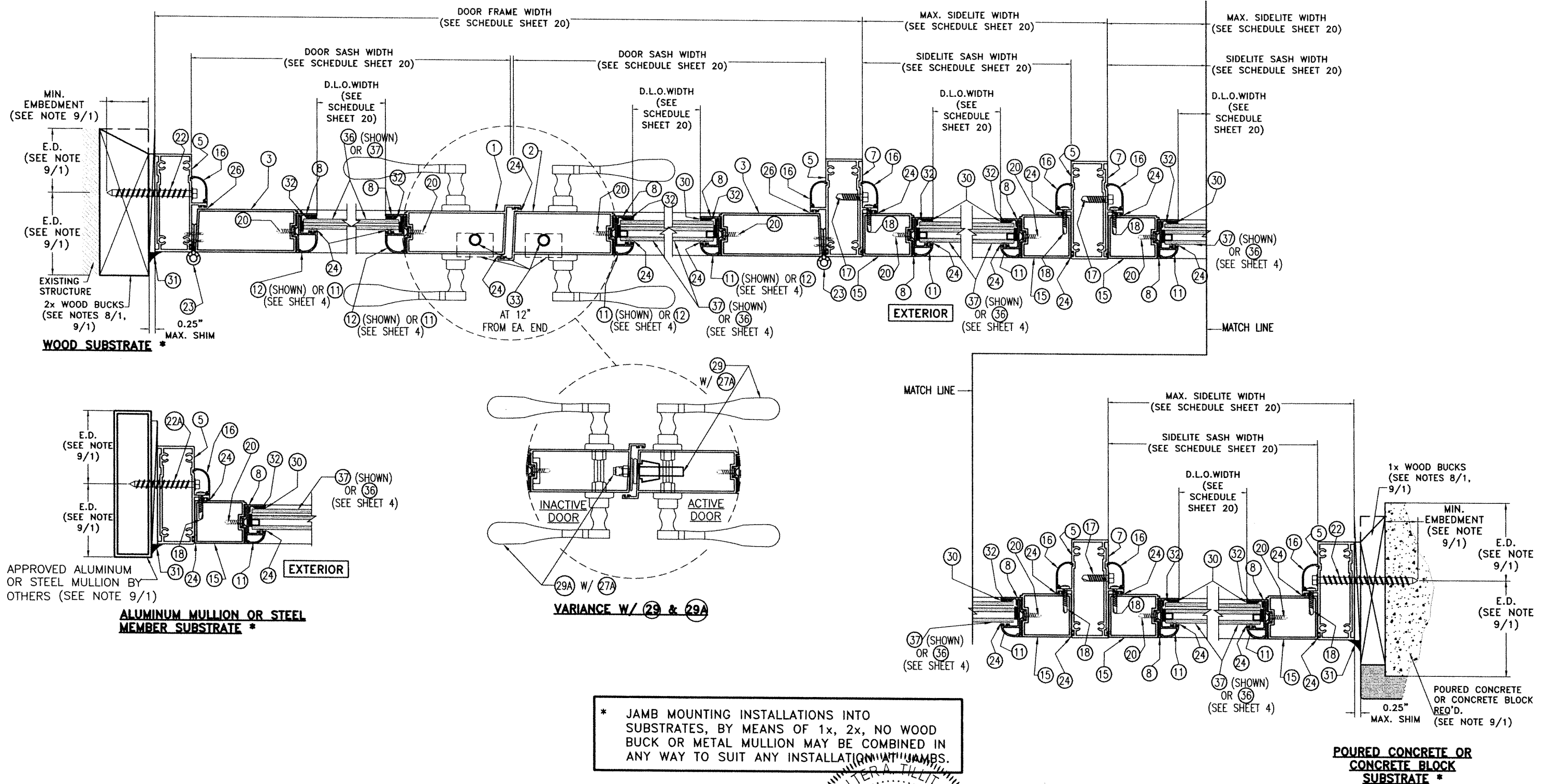
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W.H.

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23-209
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		

SHEET 18 OF 45



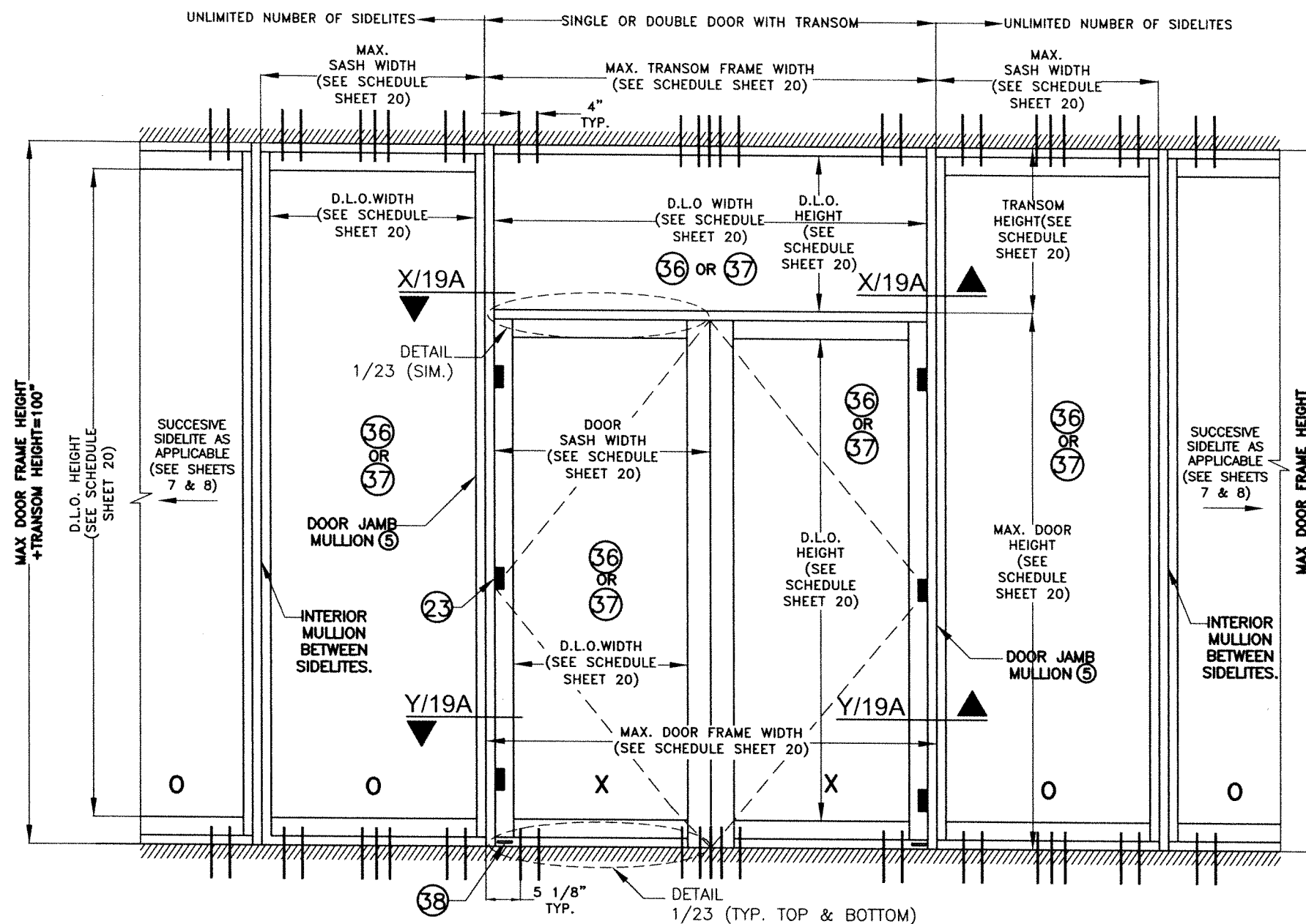
SECTION J-J DOUBLE DOOR W/ SIDELITES

SCALE: N.T.S

OPTIONAL SYSTEM # 1

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

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)					
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TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th. St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		
			DRAWN BY W.H.		
			09/06/2023 DATE		
			23-209 DRAWING No		
			SHEET 19 OF 45		

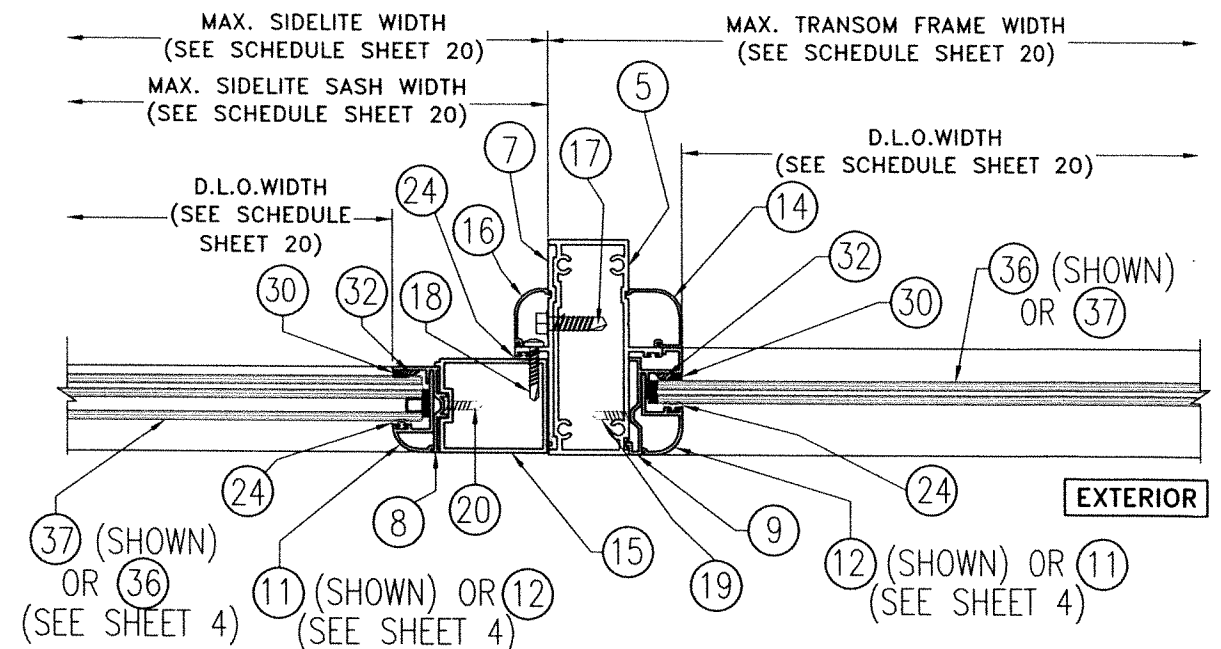


TYPICAL SPECIAL CONDITION FOR INSTALATION OF SINGLE/DOUBLE DOOR W/ SIDELITES & LIMITED TRANSOM HEIGHT:

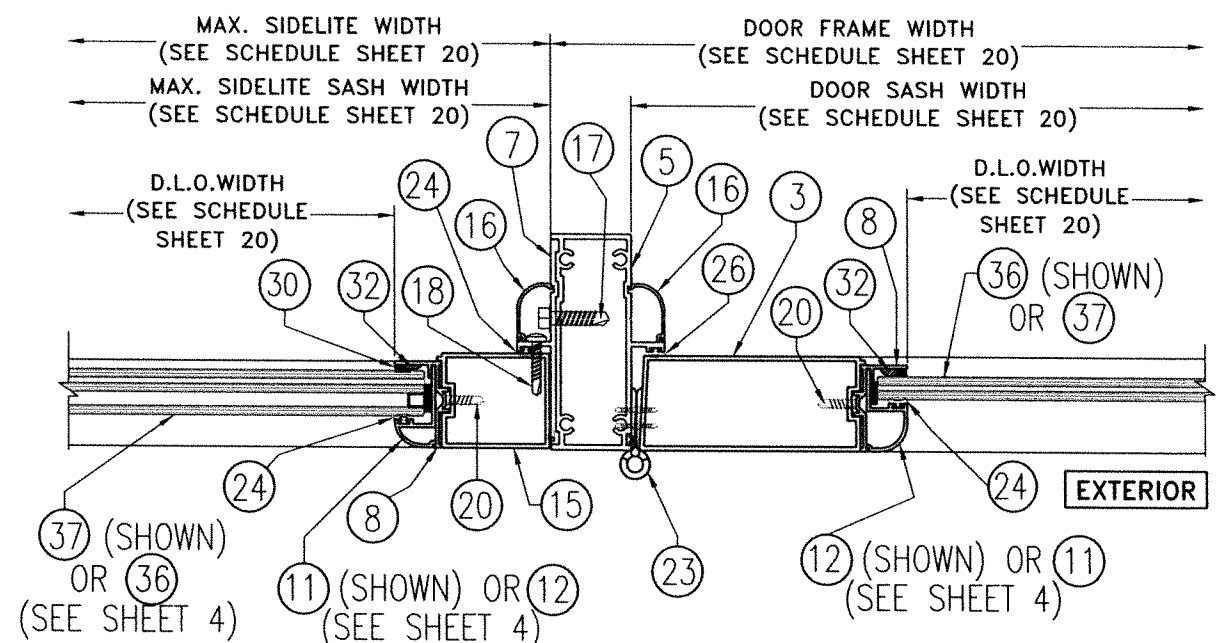
NOTE: *

- (I) SINGLE OR DOUBLE FRENCH DOORS MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDELITES AND A TRANSOM TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
- (I.1) INTERIOR MULLIONS BETWEEN SIDE LITES SHALL ALWAYS CONSIST OF MULLION DESCRIBED ON SECTIONS G,H,I,J SHEETS 16 THRU 19, ADDITIONALLY ON SECTIONS X,Y SHEET 19A.
 - (I.2) DOOR JAMB MULLIONS SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS G,H,I,J SHEETS 16 THRU 19, ADDITIONALLY ON SECTIONS X,Y SHEET 19A.
 - (I.3) JAMBS AT SIDELITES SHALL ALWAYS BE ATTACHED TO EXISTING SUBSTRATES W/ ANCHORS AS PER GENERAL NOTE 9, SHEET 1 & AT SPACINGS PER SCHEDULE ON SHEET 21.
 - (I.4) TOP & BOTTOM ANCHORS FOR INTERIOR MULLIONS BETWEEN SIDELITES AS WELL AS DOOR JAMB MULLIONS SHALL BE AS INDICATED ON ELEVATIONS SHEETS 7 THRU 10 ADDITIONALLY DOOR JAMB MULLION ELEVATION ON SHEET 19A AND SCHEDULES ON SHEET 21.
- (II) SUCCESSIVE SIDELITES MAY BE INSTALLED AT RESIDENTIAL BUILDINGS AS LONG AS THE FOLLOWING PROCEDURE AND REQUIREMENTS APPLY.
- (II.1) JAMBS ARE ATTACHED TO EXISTING SUBSTRATE AT BUILDINGS W/ANCHORAGE AS PER SCHEDULES ON SHEET 21.
 - (II.2) INTERIOR MULLIONS BETWEEN SIDELITES SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS G,H,I,J, SHEETS 16 THRU 19, ADDITIONALLY ON SECTIONS X,Y SHEET 19A.
 - (II.3) INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 21.

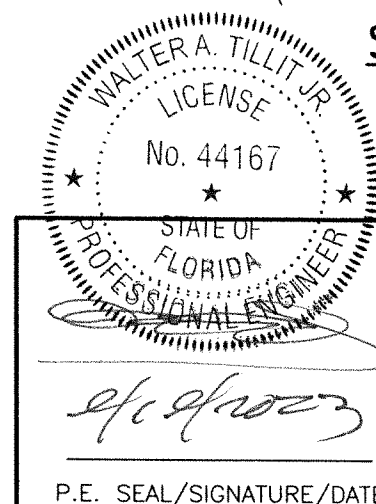
OPTIONAL SYSTEM # 1



SECTION X-X @ DOOR JAMB MULLION (5) AT TRANSOM
SCALE: N.T.S



SECTION Y-Y @ DOOR JAMB MULLION (5) AT DOOR
SCALE: N.T.S



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		
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			23-209 DRAWING No		
			SHEET 19A OF 45		

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

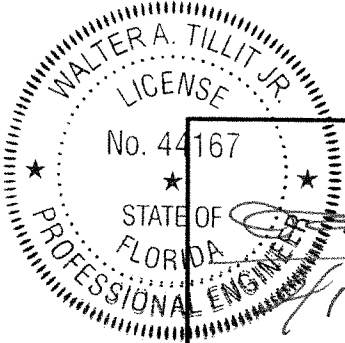
MAX. ASD DESIGN PRESSURE RATING	MAX. DOOR FRAME WIDTH		MAX. DOOR FRAME HEIGHT	MAX. DOOR SASH WIDTH *	MAX. DOOR SASH HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT
	AT SINGLE DOOR	AT DOUBLE DOOR					
+45, -45 psf	3'-5 1/2"	6'-8"	10'-0"	3'-2 1/2"	9'-9 1/2"	2'-4"	8'-8"
+49, -49 psf	3'-5 1/2"	6'-8"	9'-8"	3'-2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

OPTIONAL SYSTEM # 1



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CA-0006719

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OR W/ SIDELITES



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		

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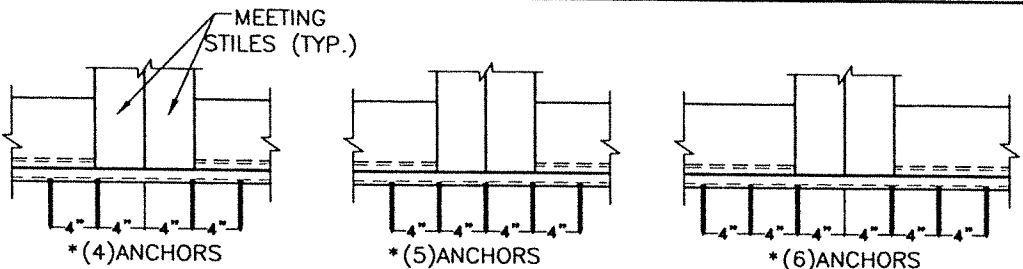
09/06/2023
DATE

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DRAWING No

SHEET 20 OF 45

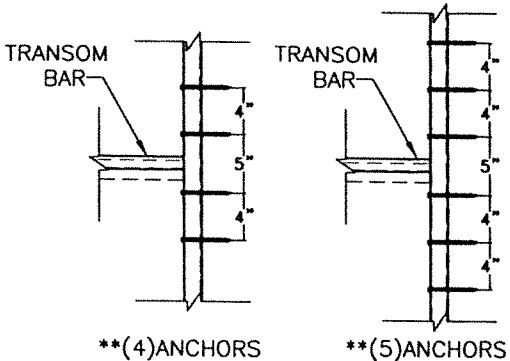
REQ'D NUMBER OF ANCHORS AT HEAD/SILL CLUSTER
OF ANCHORS AT DOUBLE DOOR, AT MEETING STILES *

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 **

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



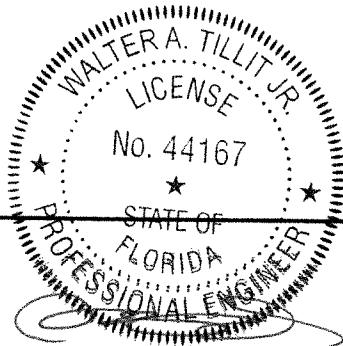
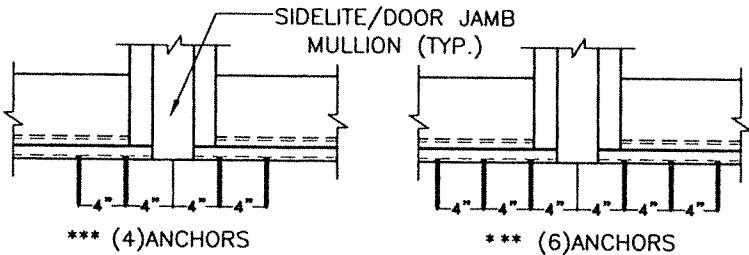
OPTIONAL SYSTEM # 1

MAXIMUM ANCHOR SPACING "S" 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 ***

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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CA-0006719

WALTER A. TILLIT Jr. P.E.

FLORIDA Lic. # 44167

SERIES 24000 LMSZ IMPACT RESISTANT
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OR W/ SIDELITES

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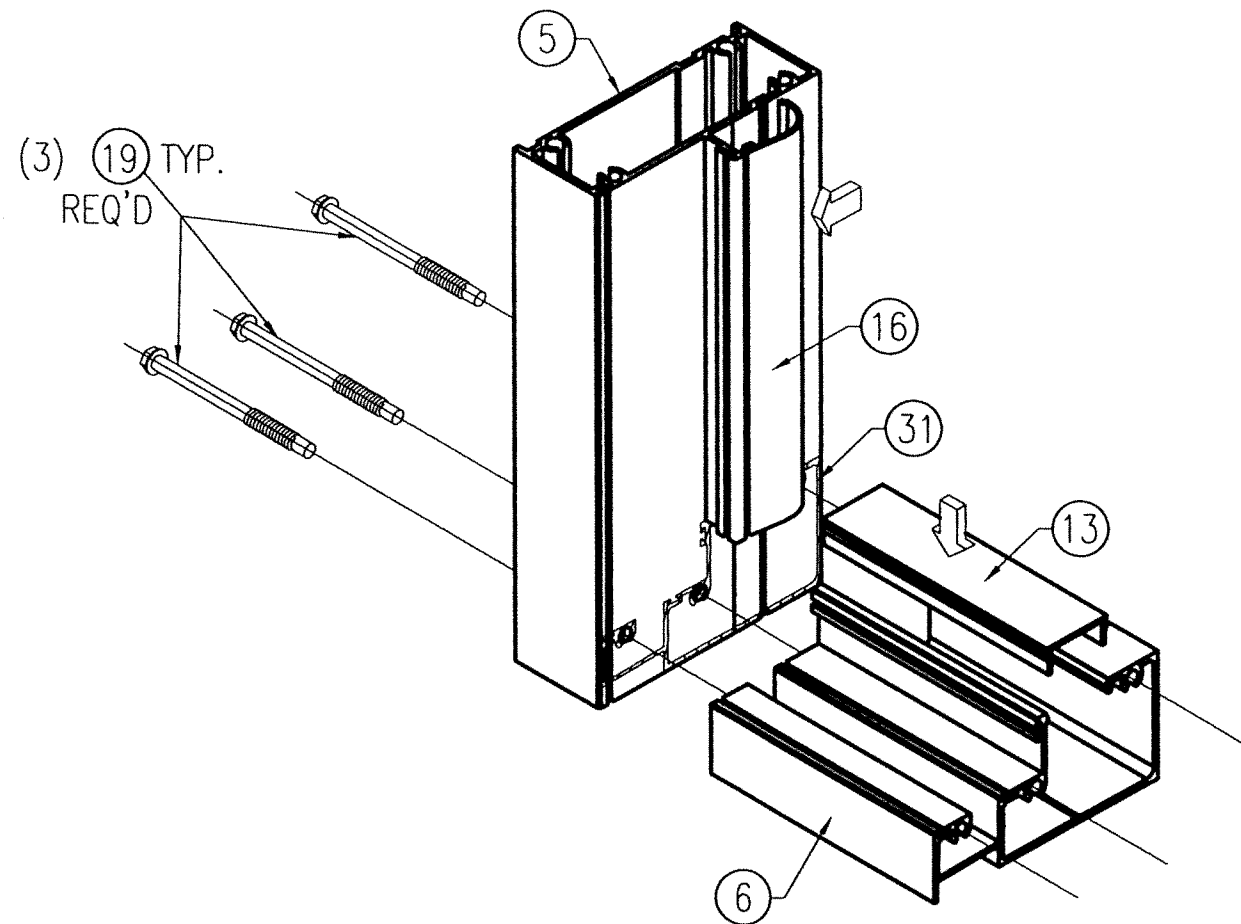
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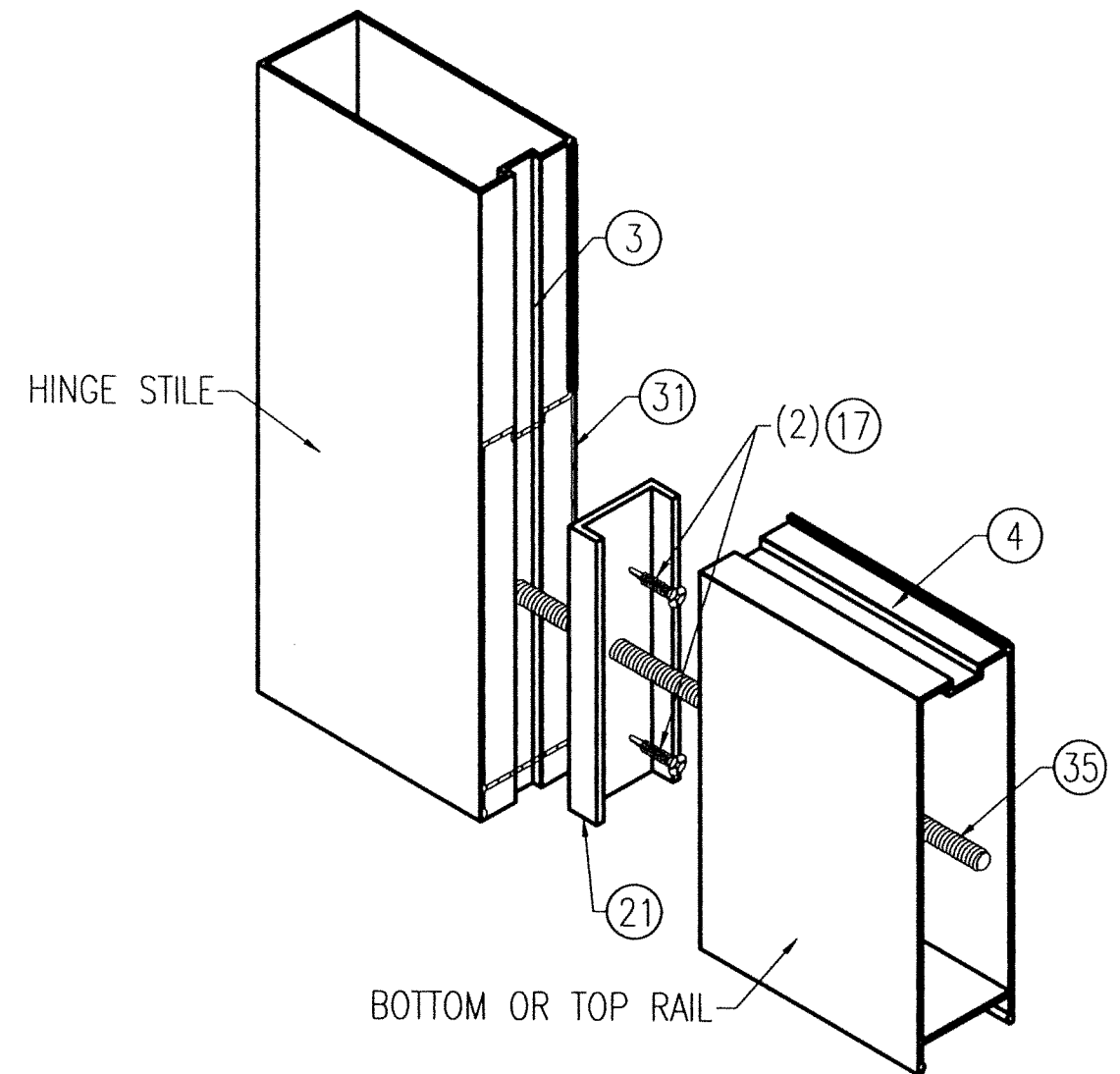
23-209
DRAWING No

SHEET 21 OF 45

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		



FRAME CORNER DETAIL
N. T. S.

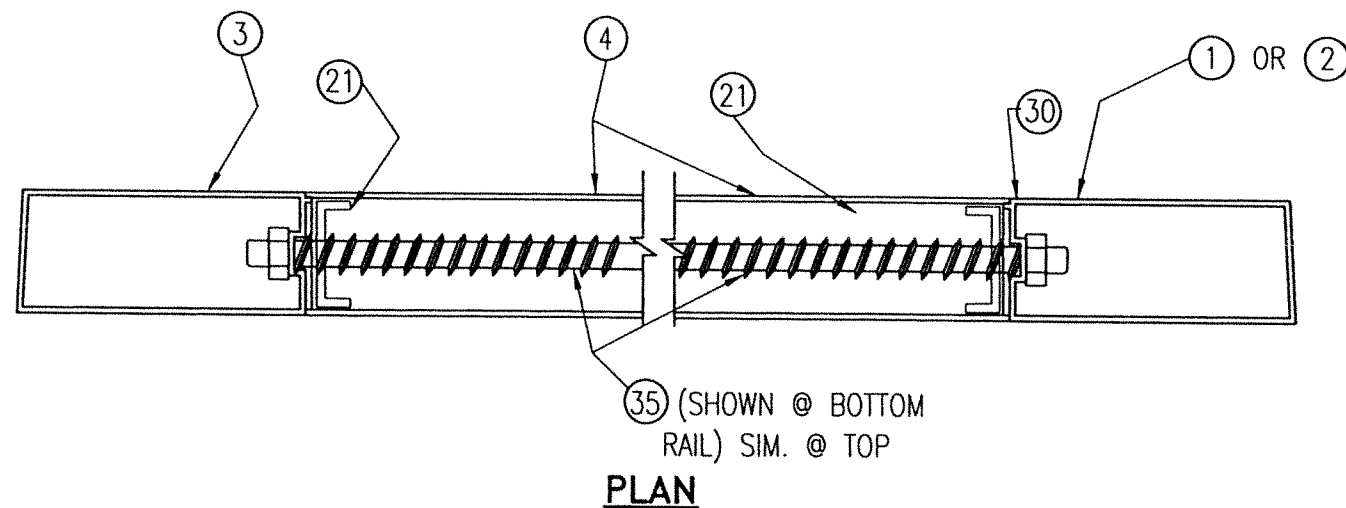
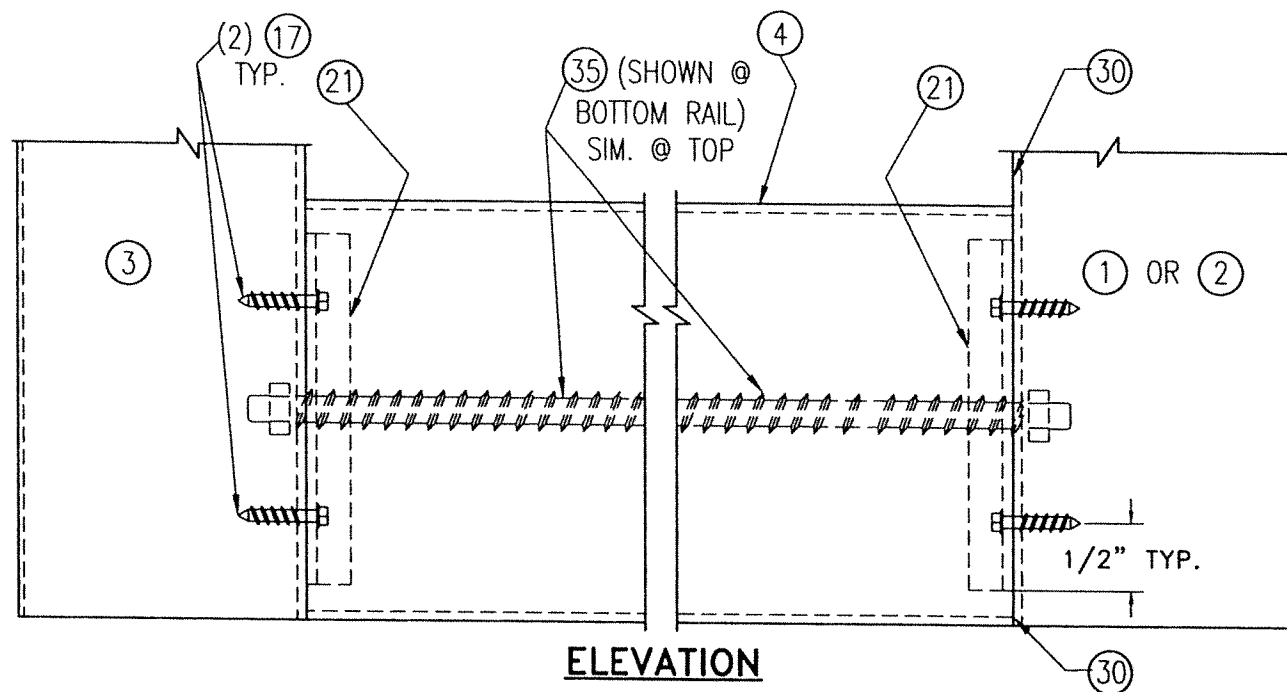


DOOR CORNER FRAME DETAIL
N. T. S.

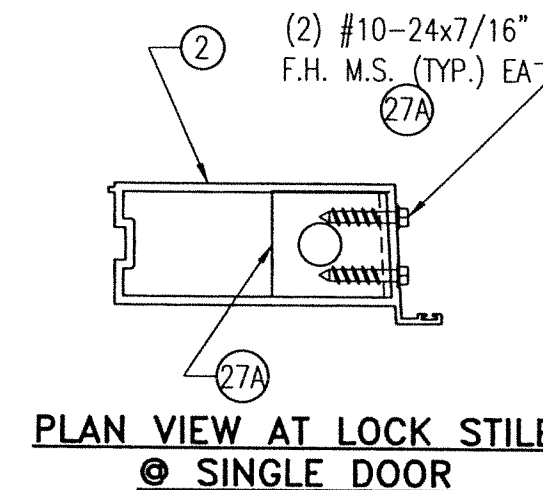
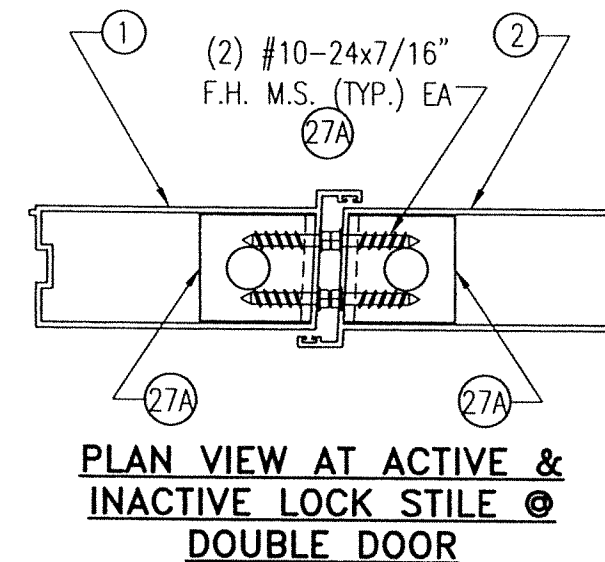
CORNER DETAILS ISOMETRIC OPTIONAL SYSTEM # 1

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

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TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33106 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		 290 WEST 78 ROAD HIALEAH, FL. 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com		09/06/2023 DATE	
P.E. SEAL/SIGNATURE/DATE		23-209 DRAWING No		SHEET 22 OF 45	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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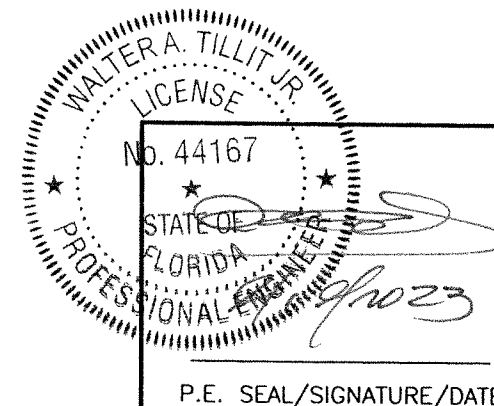


**DETAIL 1: TOP/BOTTOM RAIL
CONNECTION TO STILES**
SCALE: 3/8"=1"



**SHOOT BOLT GUIDE DETAIL
AT TOP & BOTTOM STILES**
SCALE: 3/8"=1"

OPTIONAL SYSTEM # 1



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WINDOWS & DOORS

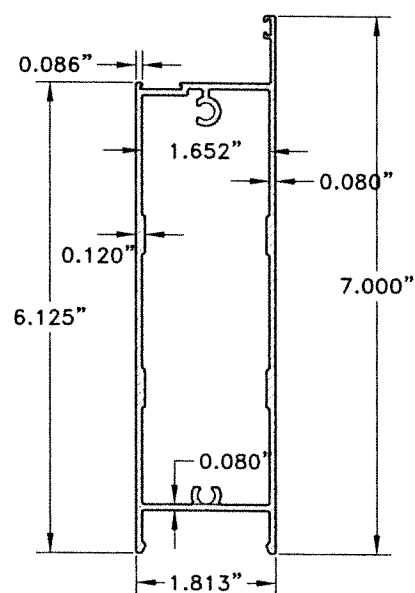
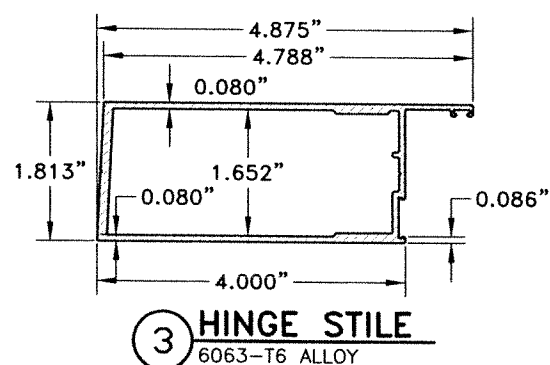
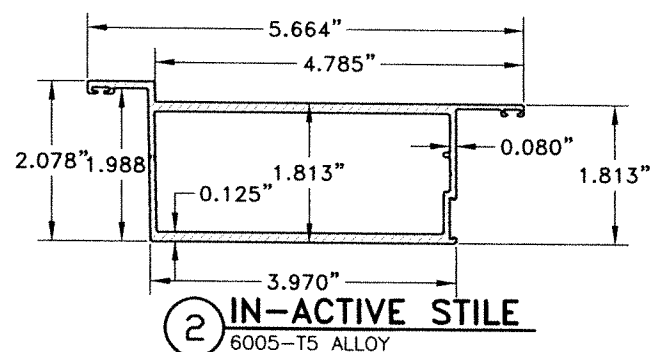
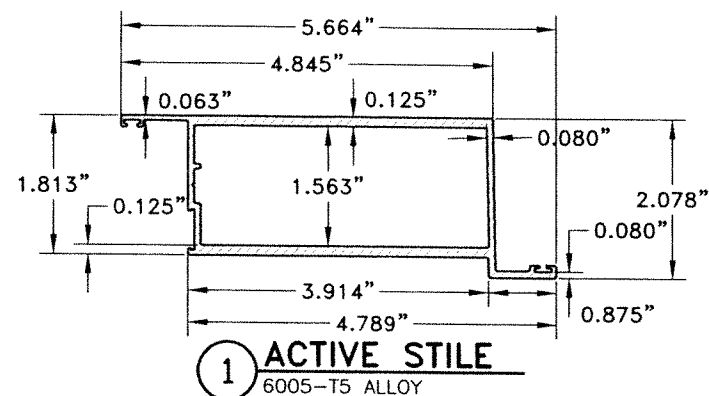
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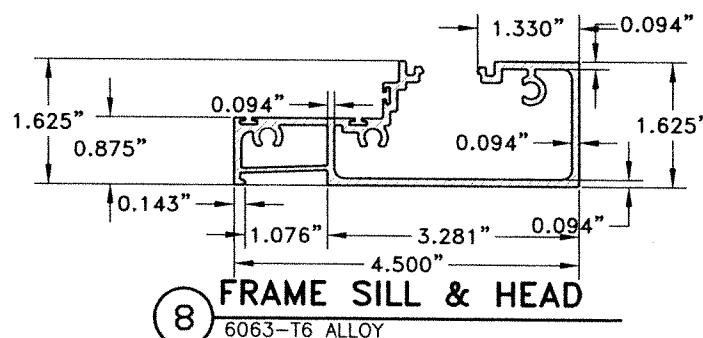
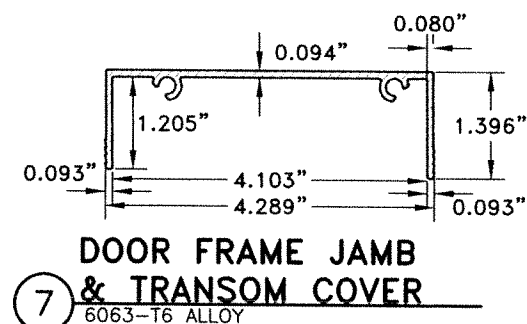
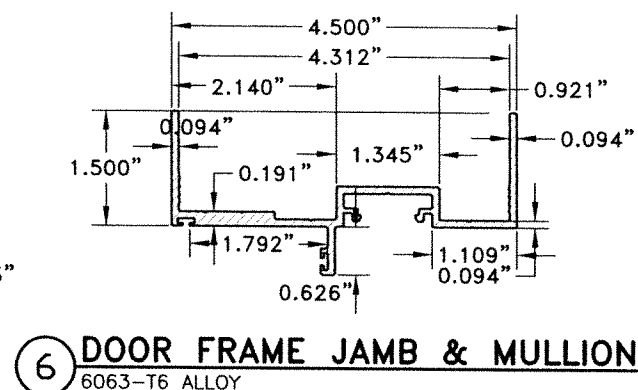
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DATE

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DRAWING No

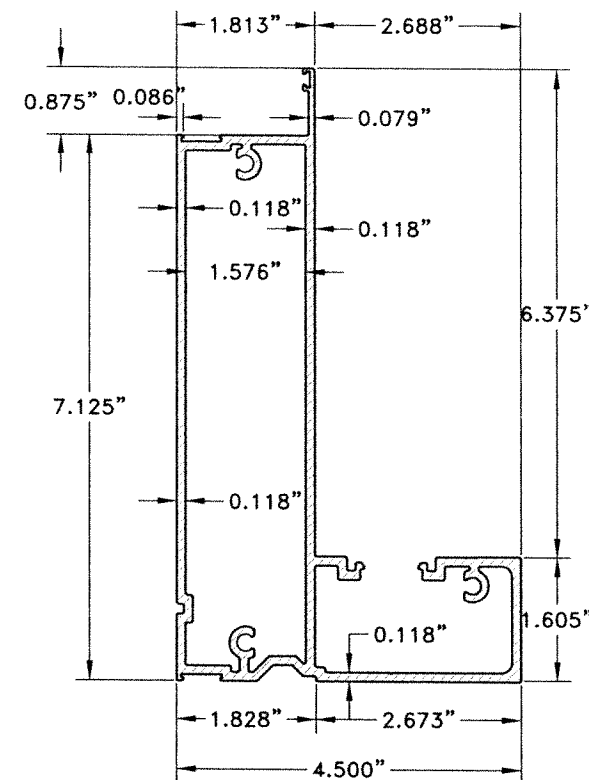
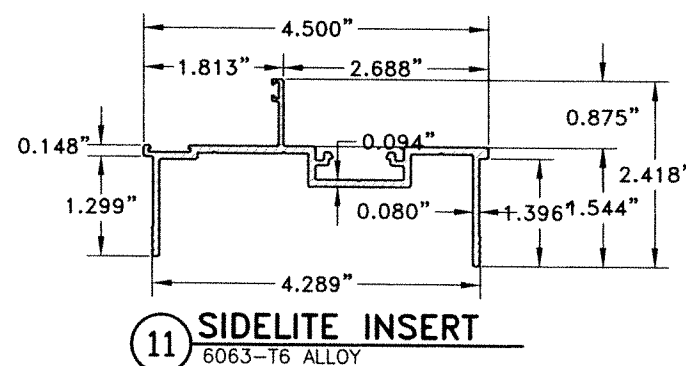
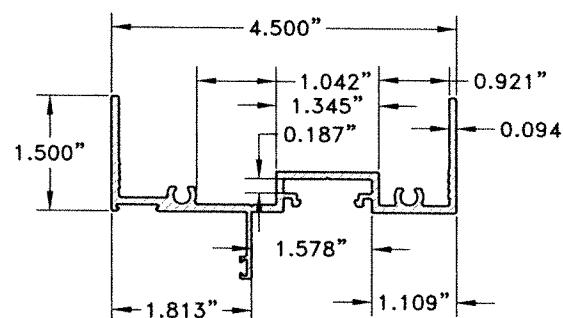
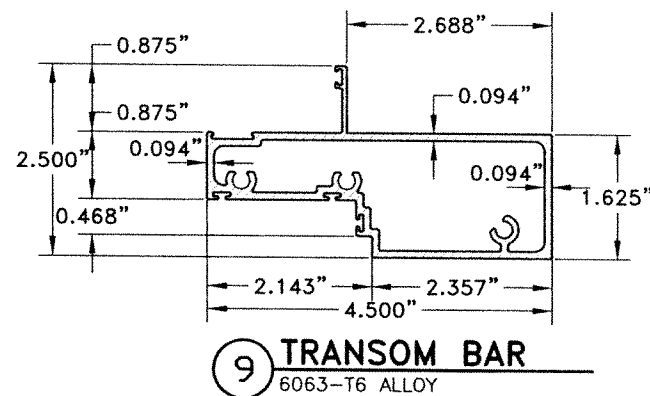
SHEET 23 OF 45



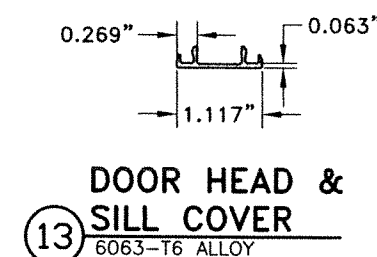
4 6" BOTTOM & TOP RAIL
6063-T6 ALLOY



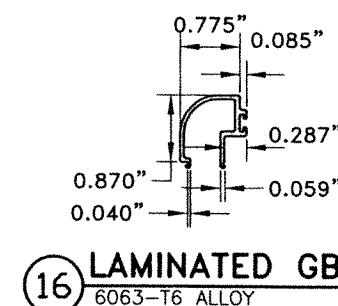
COMPONENTS N.T.S. **OPTIONAL SYSTEM # 2**



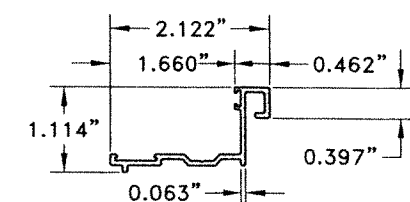
12 SIDELITE FRAME SILL & HEAD
6063-T6 ALLOY



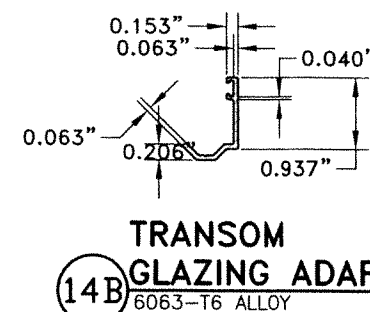
13 DOOR HEAD & SILL COVER
6063-T6 ALLOY



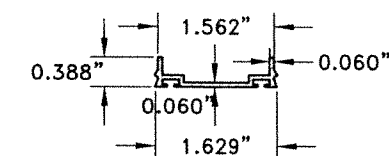
16 LAMINATED GB
6063-T6 ALLOY



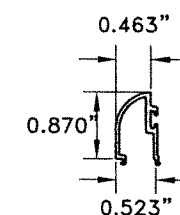
14A DOOR JAMB TRANSOM GLAZING ADAPTER
6063-T6 ALLOY



14B TRANSOM GLAZING ADAPTER
6063-T6 ALLOY



15 WEATHER STRIP ADAPTER
6063-T6 ALLOY



17 INSULATED GB
6063-T6 ALLOY

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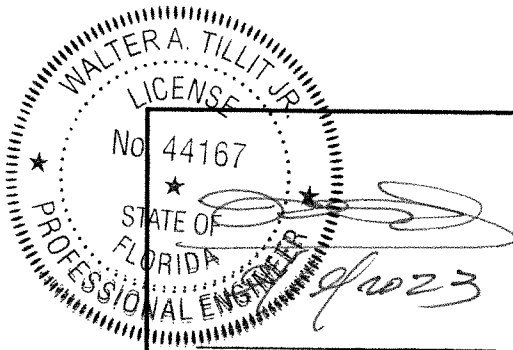
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1	OLD 23-156	09/06/23	2		

BILL OF MATERIALS			
COMPONENT #	DESCRIPTION	DIMENSIONS/REMARKS	MATERIAL
1	ACTIVE LOCK STILE	SEE SHEET 24	6063-T6
2	INACTIVE LOCK STILE	SEE SHEET 24	6063-T6
3	HINGE STILE	SEE SHEET 24	6063-T6
4	6" BOTTOM & TOP RAIL	SEE SHEET 24	6063-T6
6	DOOR FRAME JAMB & MULLION	SEE SHEET 24	6063-T6
7	DOOR FRAME JAMB & TRANSOM COVER	SEE SHEET 24	6063-T6
8	FRAME SILL & HEAD	SEE SHEET 24	6063-T6
9	TRANSOM BAR	SEE SHEET 24	6063-T6
10	TRANSOM HEAD & SIDELITE MULLION	SEE SHEET 24	6063-T6
11	SIDE LITE INSERT	SEE SHEET 24	6063-T6
12	SIDELITE FRAME SILL & HEAD	SEE SHEET 24	6063-T6
13	DOOR HEAD & SILL COVER	SEE SHEET 24	6063-T6
14A	DOOR JAMB TRANSOM GLAZING ADAPTER	SEE SHEET 24	6063-T6
14B	TRANSOM GLAZING ADAPTER	SEE SHEET 24	6063-T6
15	WEATHER STRIP ADAPTER	SEE SHEET 24	6063-T6
16	LAMINATED GLAZING BEAD	SEE SHEET 24	6063-T6
17	INSULATED GLAZING BEAD	SEE SHEET 24	6063-T6
18A	GLAZING PUSH-IN GASKET	0.157"x0.295" (EXTRUSIONS)	EPDM
18B	GLAZING PUSH-IN GASKET	0.290"x0.280" (EXTRUSIONS)	EPDM
19	#14 x 2 1/2" H.H. SCREW	FRAME ASSEMBLY & PANELS ASSEMBLY -180 KSI TENSILE STRENGTH	STEEL
20	#10 x 1" F.H. S.S. TEK SCREW @ 8" O.C.	TRANSOM GLAZING ADAPTER	STEEL
21	1/4"-Ø-20X1" PAN HEAD S.S. THRU BOLT W/ NUT @ 12" O.C. (START @ 6" O.C. FROM TOP/BOTTOM)	MULLION ASSEMBLY BOLT	STEEL
22	TAPCON (ITW/BUILDEX) CONCRETE ANCHOR	1/4" Ø - SEE GENERAL NOTE ON SHEET 1	STEEL
22A	TEK SCREW (ITW/BUILDEX)	1/4" Ø - SEE GENERAL NOTE 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	T-SLOT EXTRUDED SEAL	0.250"x0.300" (ULTRAFAB)	VINYL
25	FIN SEAL PILE W/ PLASTIC	ULTRAFAB	
26	SEAL WEATHER STRIPPING	PRO-LON (GLAZING BEAD)	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/ CYLINDER, LATCH & DEAD BOLT STRIKE, LEVER COMPRESSION LOCK MANUFACTURED BY ASSA ABLOY		
29A	2 POINT LOCK ACTIVE HANDLE 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
33	FLUSH BOLT	HARDWARE (OPTION TO 3 AND 2 POINT LOCK) ASSA ABLOY, 7 mm ROD W/ (2) # 8 x 1/2" SMS TO STILE	PLATED STEEL
34	SETTING BLOCK		E.P.D.M.
35	WEEP HOLES	1/16" HIGH x 1 15/16" LONG @ THRESHOLD (2 PER DOOR)	

OPTIONAL SYSTEM # 2



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CA-0006719

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FLORIDA Lic. # 44167

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SERIES 24000 LMSZ IMPACT RESISTANT
OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES

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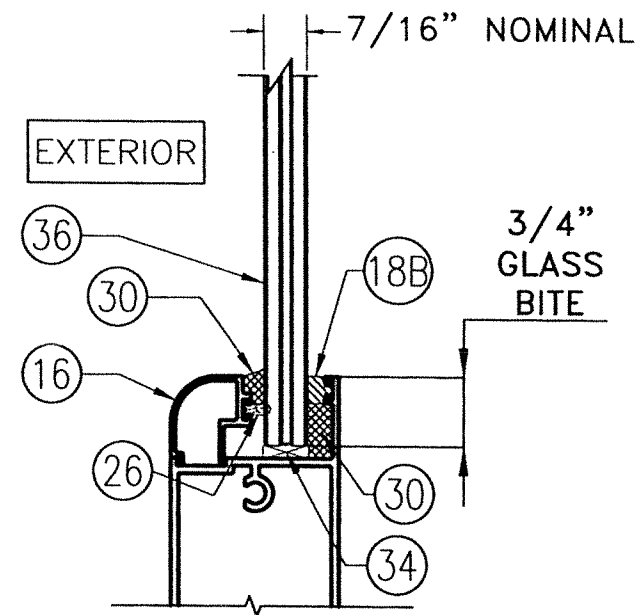
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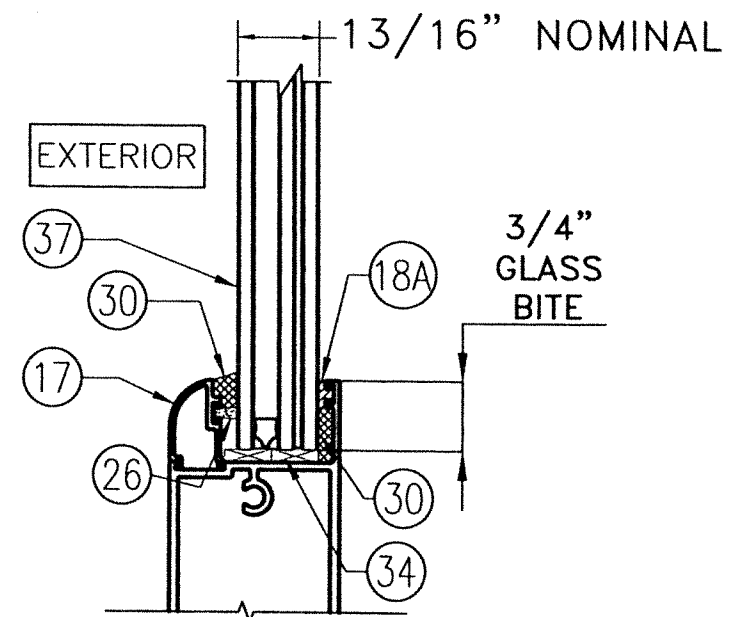
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1	OLD 23-156	09/08/23	2		

SHEET 25 OF 45

BILL OF MATERIALS (CONT'D)		
COMPONENT #	DESCRIPTION	MATERIAL
(36)	7/16" NOMINAL LAMINATED GLASS W/ 3/16" H.S. GLASS +0.090" DUPONT TROSIFOL 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" DUPONT TROSIFOL INTERLAYER BY KURARAY AMERICA INC., + 3/16" H.S. INBOARD	GLASS

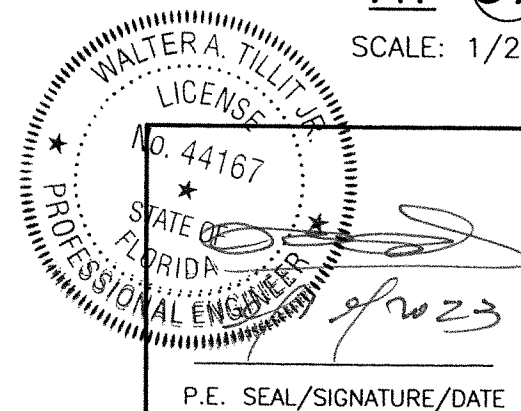


GLAZING DETAIL 1
AT (36)
SCALE: 1/2"=1"



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

OPTIONAL SYSTEM # 2



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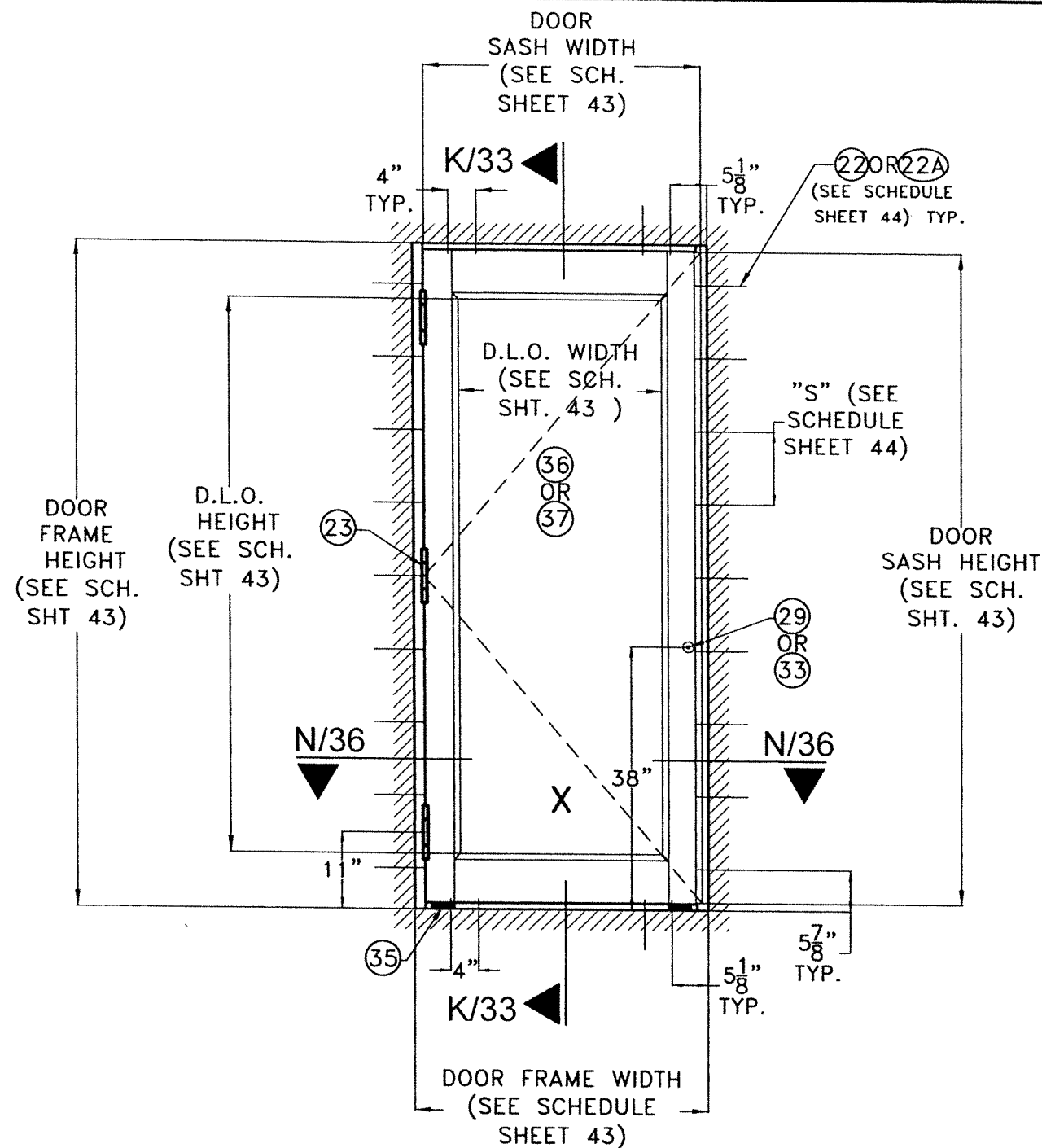
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09/06/2023
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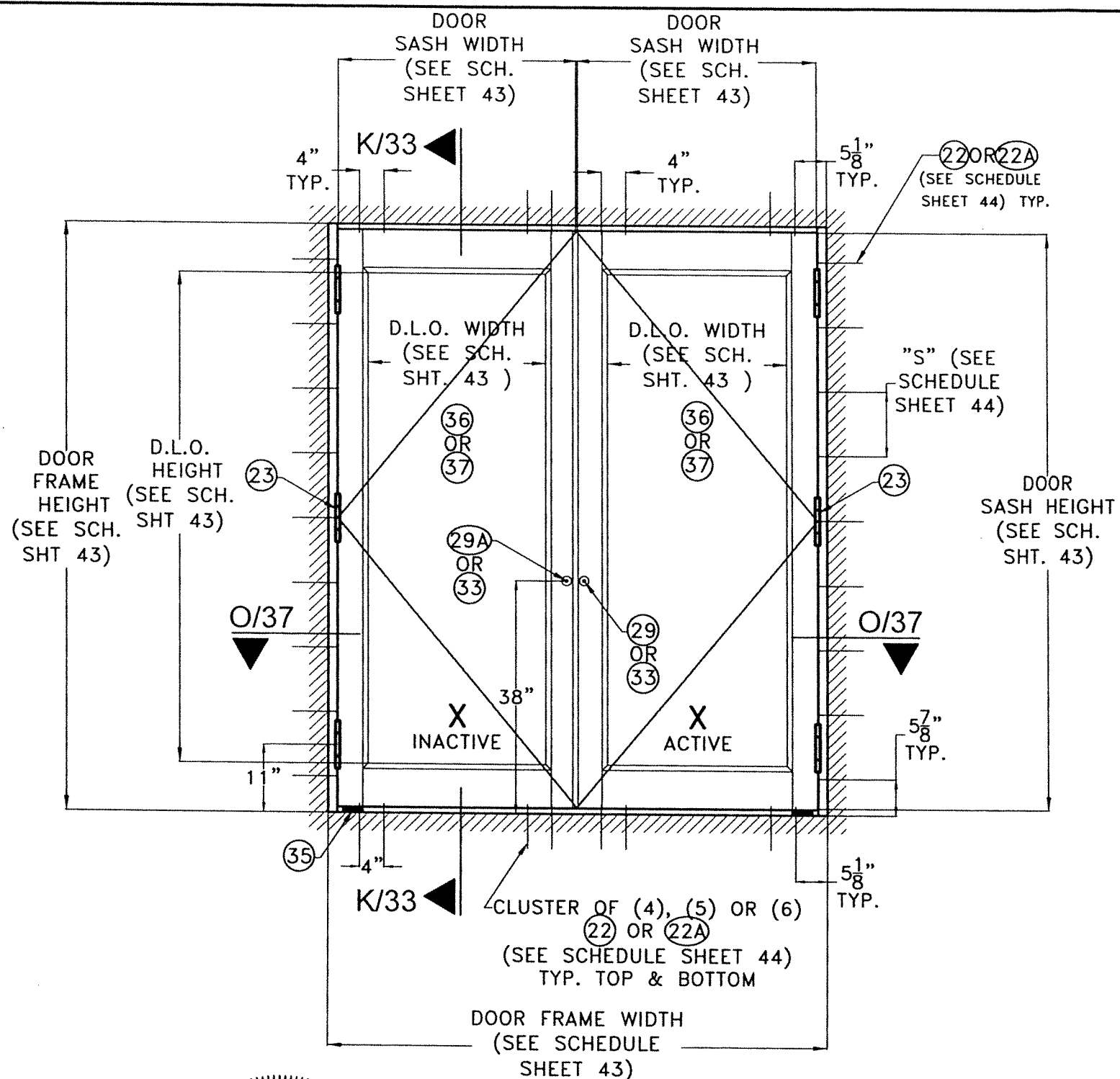
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SHEET 26 OF 45



**TYPICAL EXTERIOR ELEVATION
SINGLE DOOR**

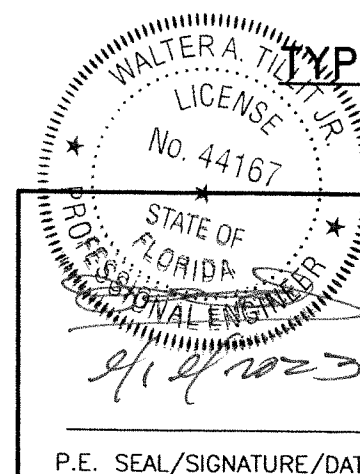


**TYPICAL EXTERIOR ELEVATION
DOUBLE DOOR**

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

SCALE: N.T.S

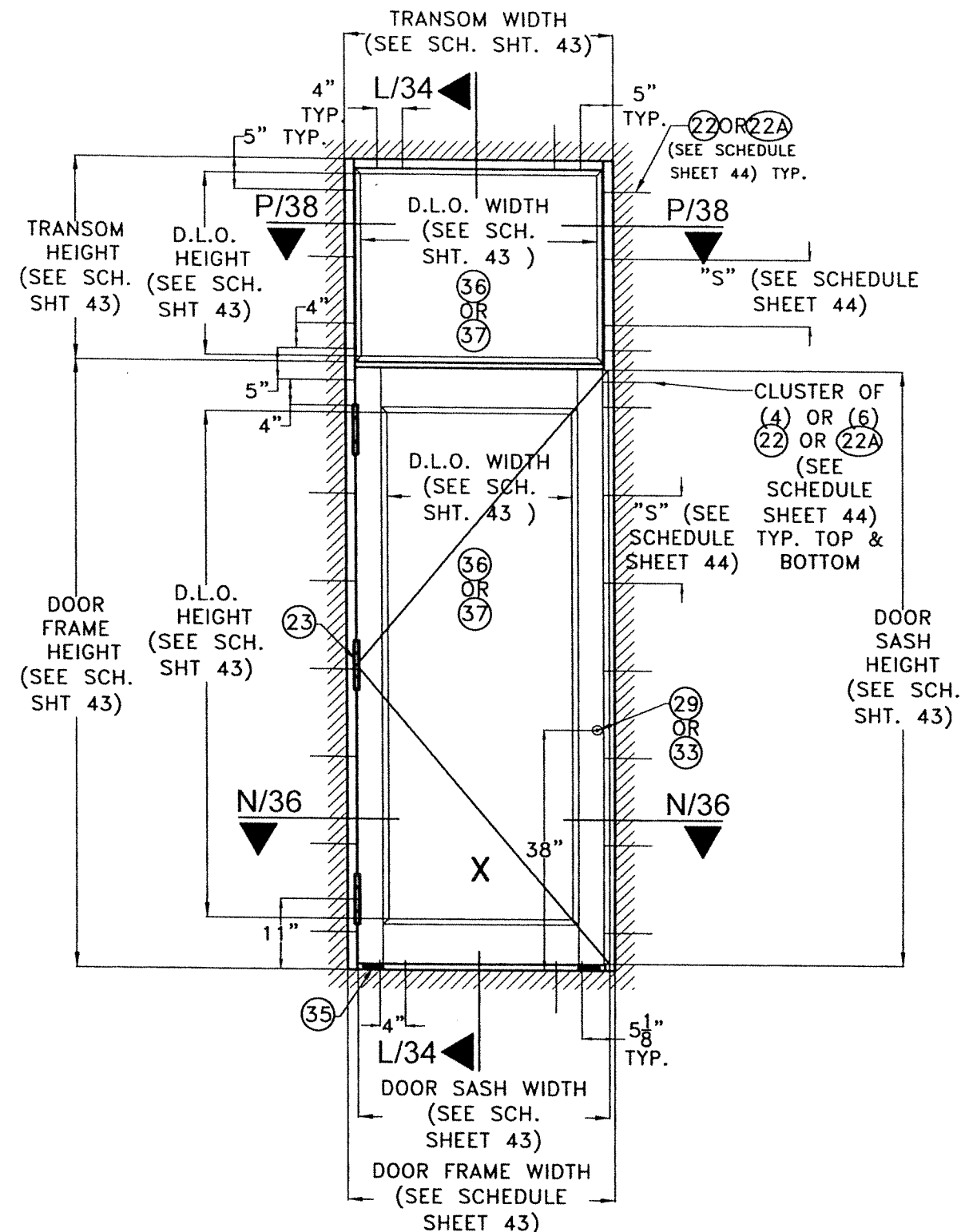
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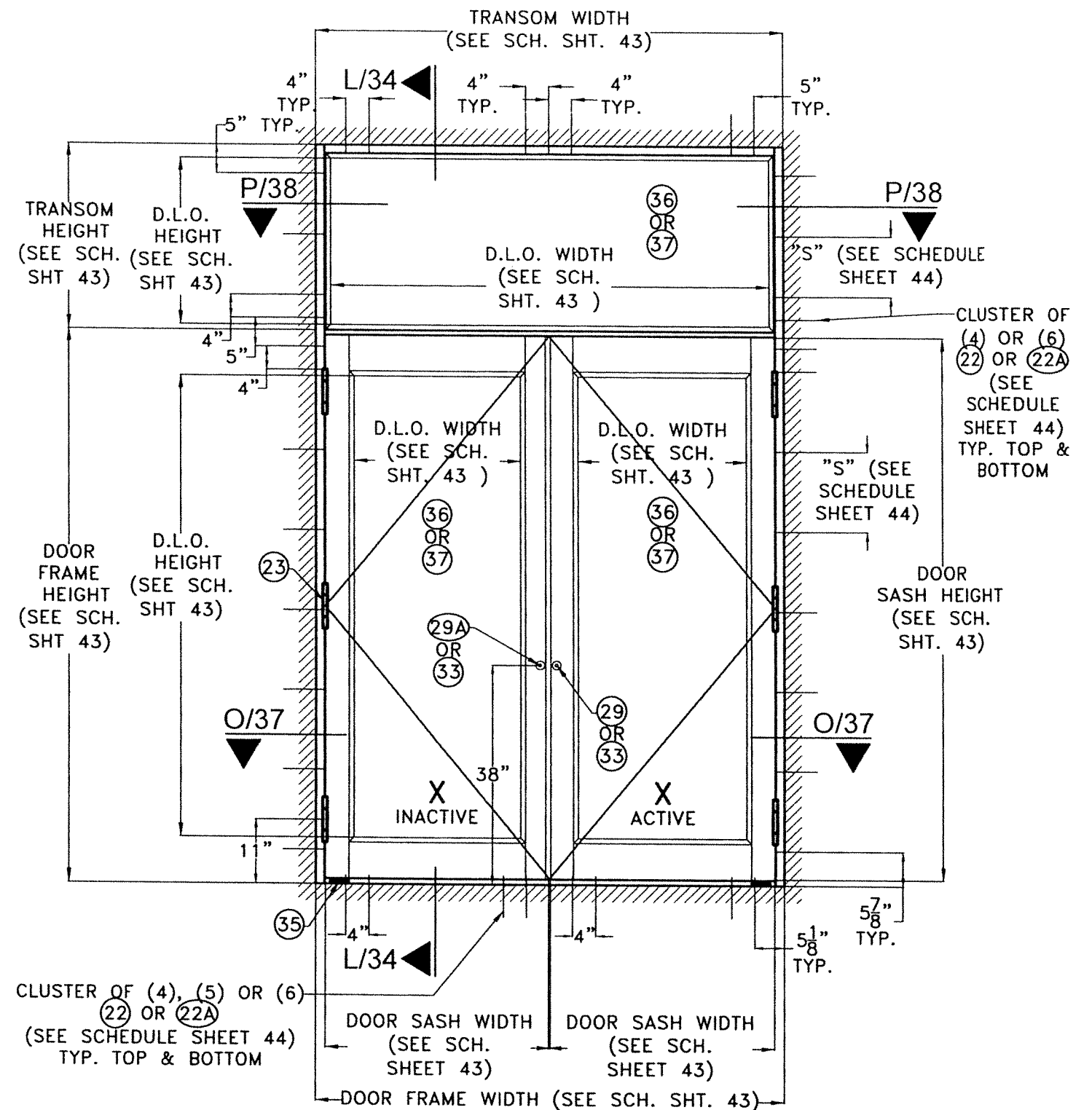
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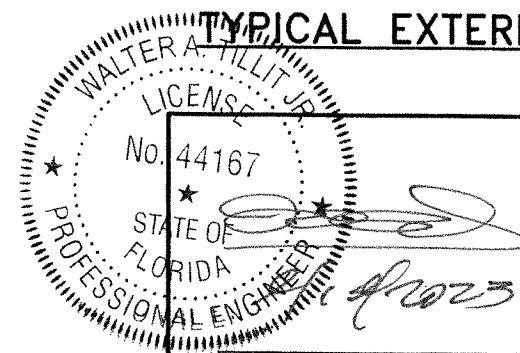


TYPICAL EXTERIOR ELEVATION SINGLE DOOR W/ TRANSOM



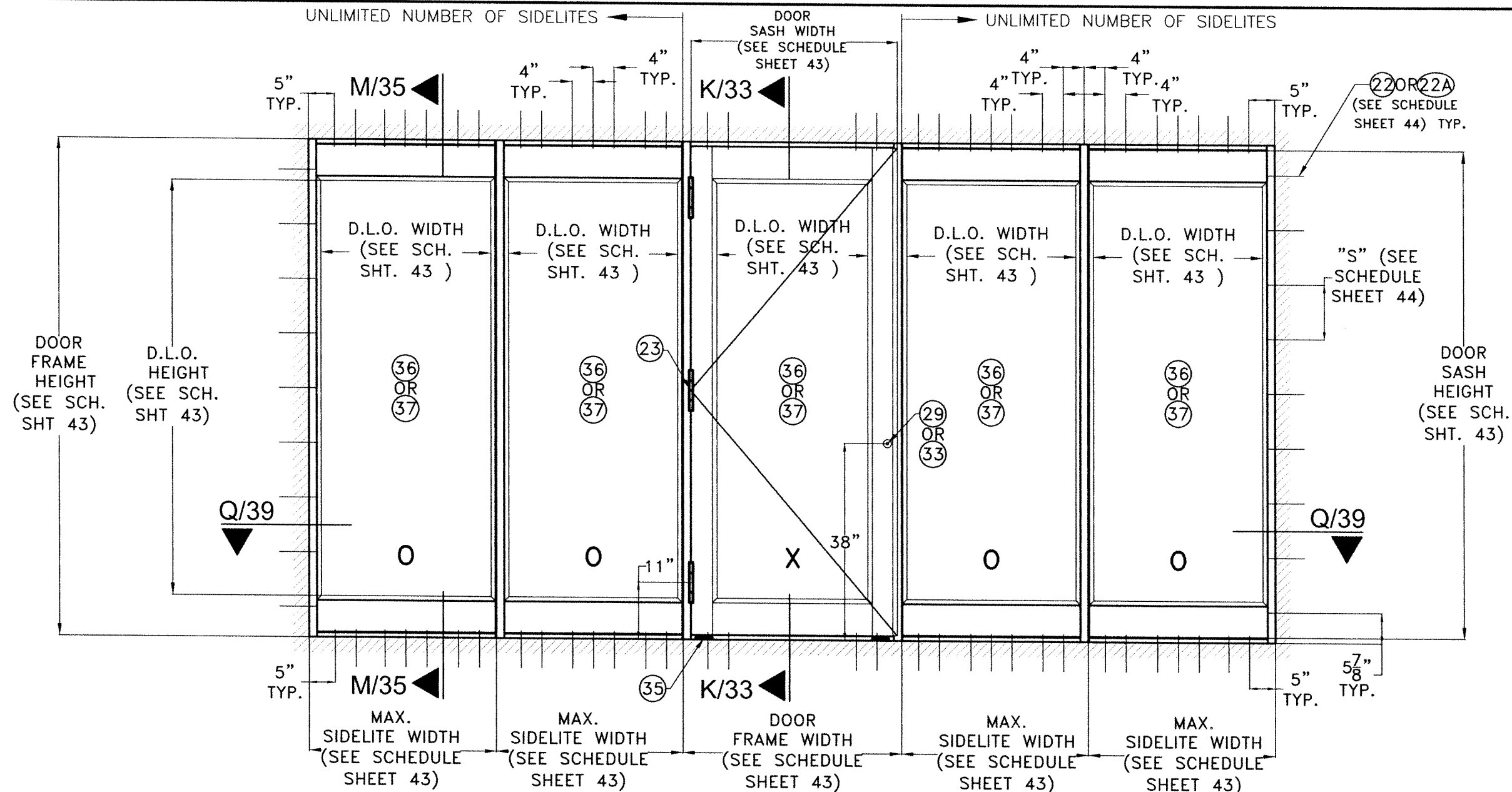
TYPICAL EXTERIOR ELEVATION DOUBLE DOOR W/ TRANSOM

TYPICAL EXTERIOR ELEVATIONS FOR SINGLE
& DOUBLE DOOR W/ TRANSOM
SCALE: N.T.S
OPTIONAL SYSTEM # 2



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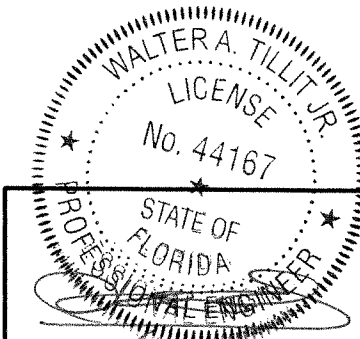
**TYPICAL EXTERIOR ELEVATION OF
SINGLE DOOR W/ SIDELITES ***

SCALE: N.T.S

NOTE: *

- (I) SINGLE OR DOUBLE FRENCH DOORS WITH TRANSOM MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDELITES TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
 - (I.1) INTERIOR MULLIONS BETWEEN SIDELITES SHALL ALWAYS CONSIST OF MULLION DESCRIBED ON SECTIONS Q,R,S,T SHEETS 39 THRU 42 ADDITIONALLY ON SECTIONS X,Y SHEET 42A
 - (I.2) DOOR JAMB MULLIONS SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS Q,R,S,T SHEETS 39 THRU 42 ADDITIONALLY ON SECTIONS X,Y SHEET 42A
 - (I.3) JAMBS SHALL ALWAYS BE ATTACHED TO EXISTING SUBSTRATES W/ ANCHORS AS PER GENERAL NOTE 9, SHEET 1 & AT SPACINGS PER SCHEDULE ON SHEET 43.
 - (I.4) TOP & BOTTOM ANCHORS FOR INTERIOR MULLIONS BETWEEN SIDELITES SHALL BE AS INDICATED ON ELEVATIONS SHEETS 29 THRU 32 ADDITIONALLY DOOR JAMB MULLION ELEVATION ON SHEET 42A AND SCHEDULES ON SHEET 43.
- (II) SUCCESSIVE SIDE LITES MAY BE INSTALLED AT RESIDENTIAL BUILDINGS AS LONG AS THE FOLLOWING PROCEDURE AND REQUIREMENTS APPLY.
 - (II.1) JAMBS ARE ATTACHED TO EXISTING SUBSTRATE AT BUILDINGS W/ANCHORAGE AS PER SCHEDULES ON SHEET 43.
 - (II.2) INTERIOR MULLIONS BETWEEN SIDELITES SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS Q,R,S,T SHEETS 39 THRU 42 ADDITIONALLY ON SECTIONS X,Y SHEET 42A
 - (II.3) INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 43.

OPTIONAL SYSTEM # 2



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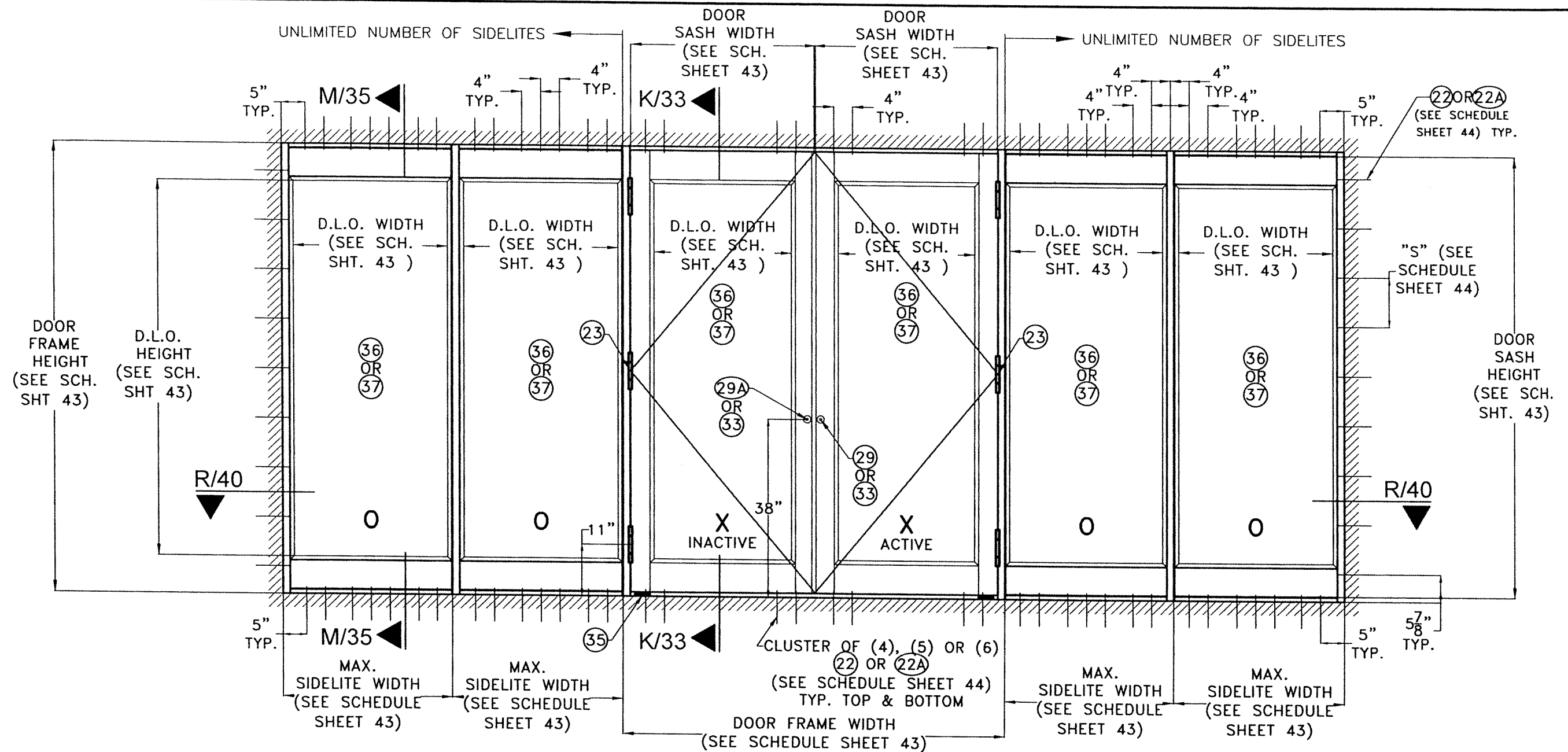
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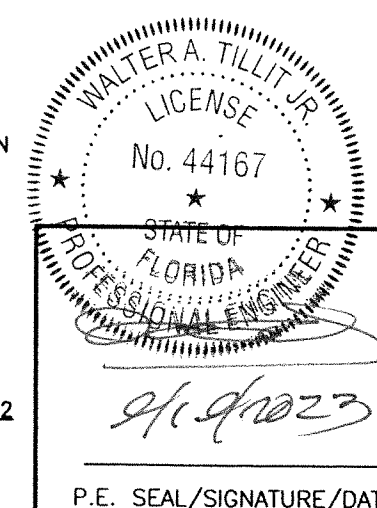
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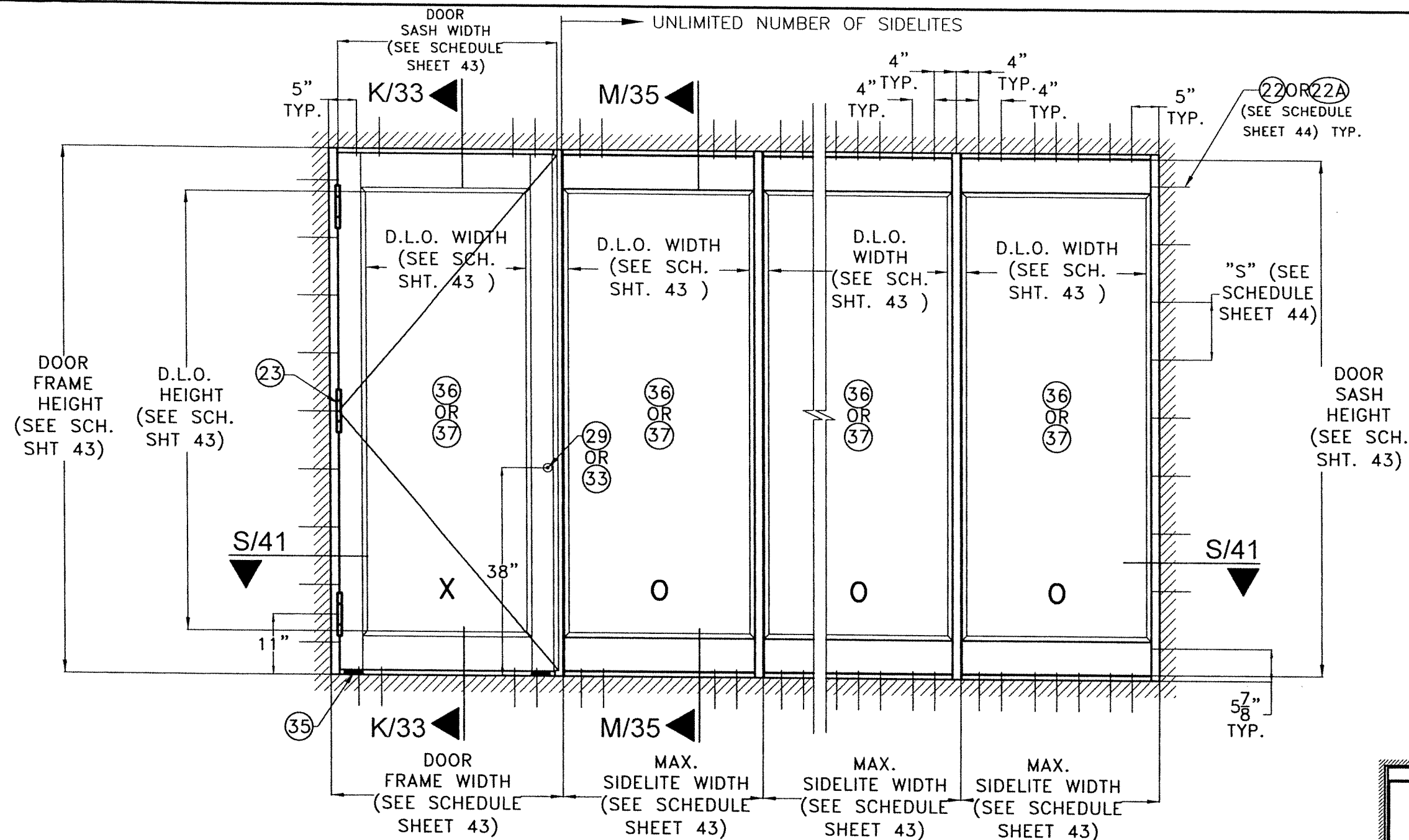
TYPICAL EXTERIOR ELEVATION OF DOUBLE DOOR W/ SIDELITES *
SCALE: N.T.S

- NOTE: *
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- (II.3) INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 43.

OPTIONAL SYSTEM # 2



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		SHEET 30 OF 45	



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

SCALE: N.T.S

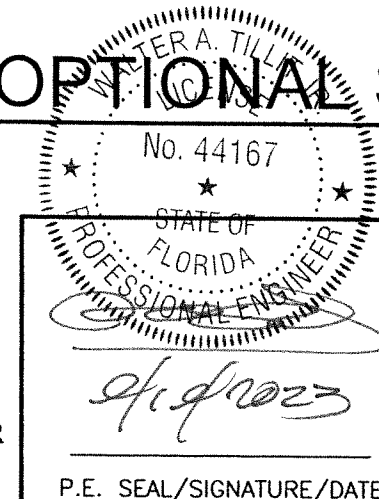
NOTE: *

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- (II.3) INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 43.

OPTIONAL SYSTEM # 2

** QUALIFIES MIRROR CONFIGURATION TOO.

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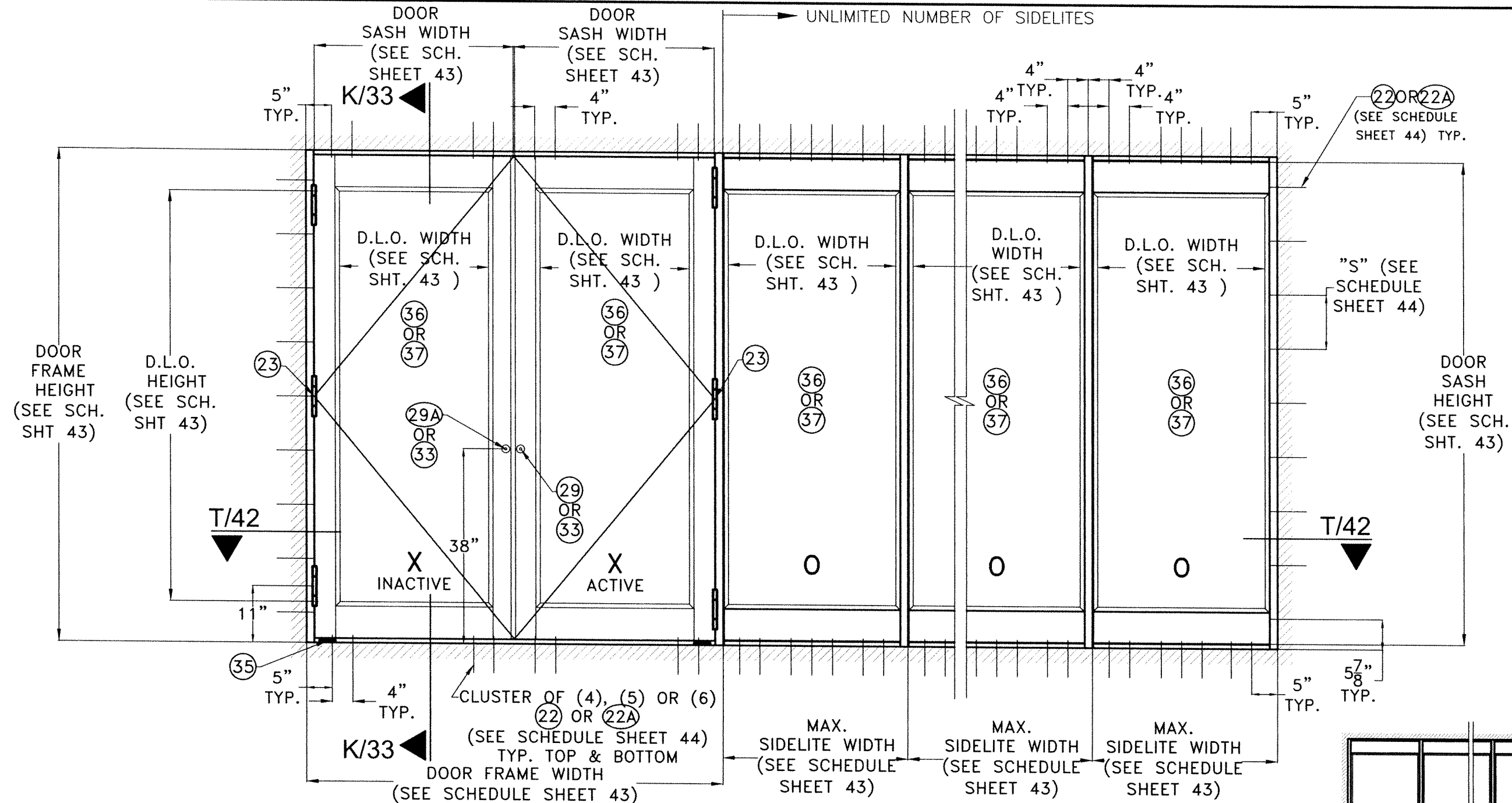
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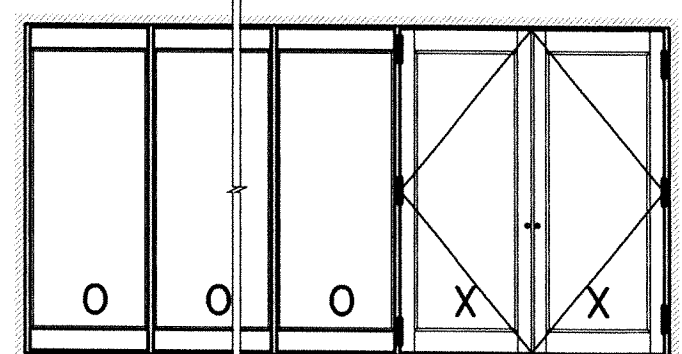
OPTIONAL SYSTEM # 2

TYPICAL EXTERIOR ELEVATION OF DOUBLE DOOR W/ SIDELITES *, **

SCALE: N.T.S

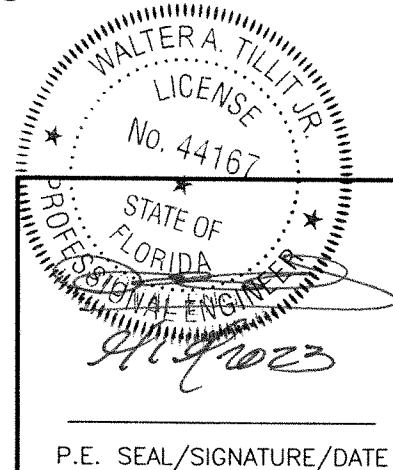
NOTE: *

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- JAMBS ARE ATTACHED TO EXISTING SUBSTRATE AT BUILDINGS W/ANCHORAGE AS PER SCHEDULES ON SHEET 43.
 - INTERIOR MULLIONS BETWEEN SIDELITES SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS Q.R.S.I SHEETS 39 THRU 42 ADDITIONALLY ON SECTIONS X.Y SHEET 42A
 - INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 43.



** QUALIFIES MIRROR CONFIGURATION TOO.

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WALTER A. TILLIT Jr. P.E.
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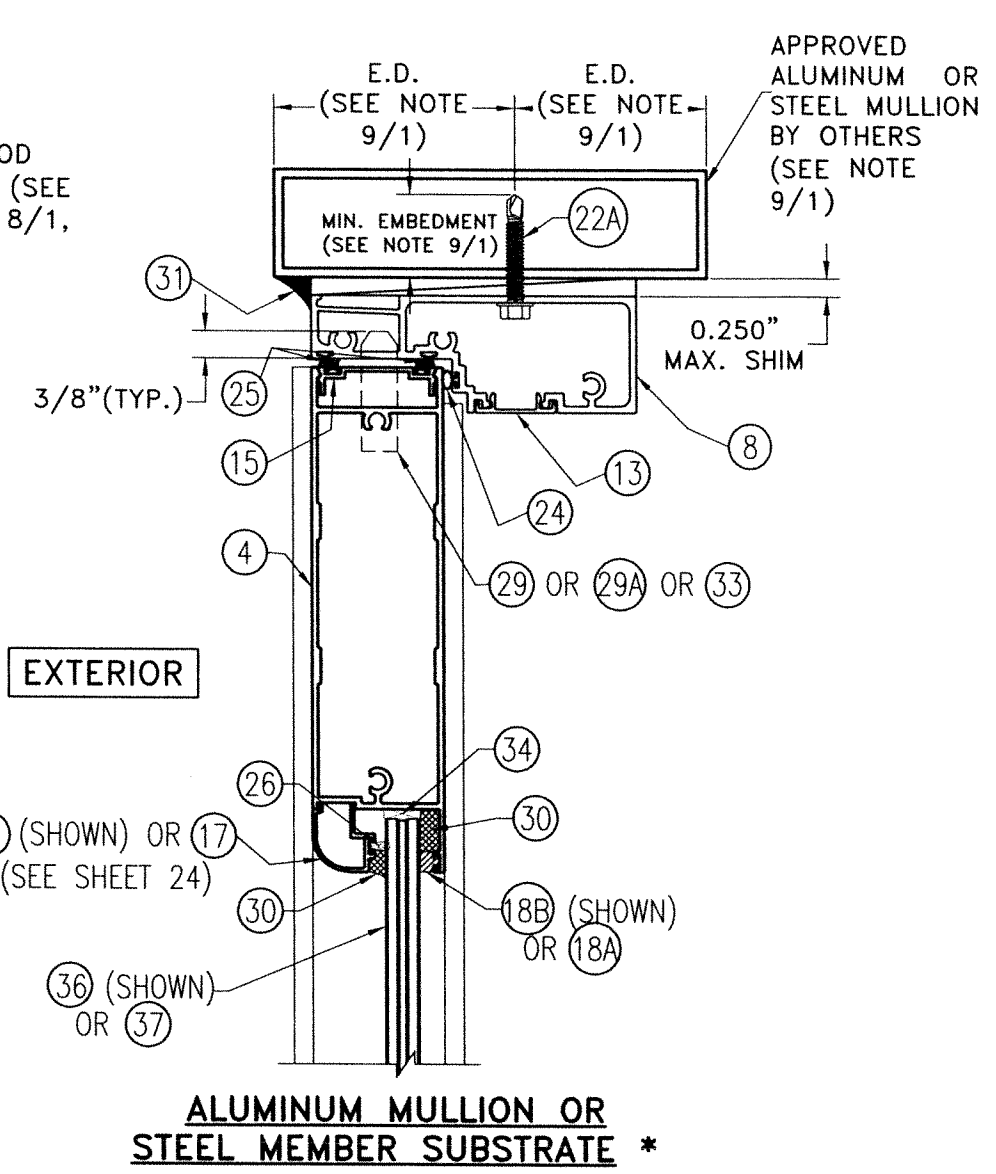
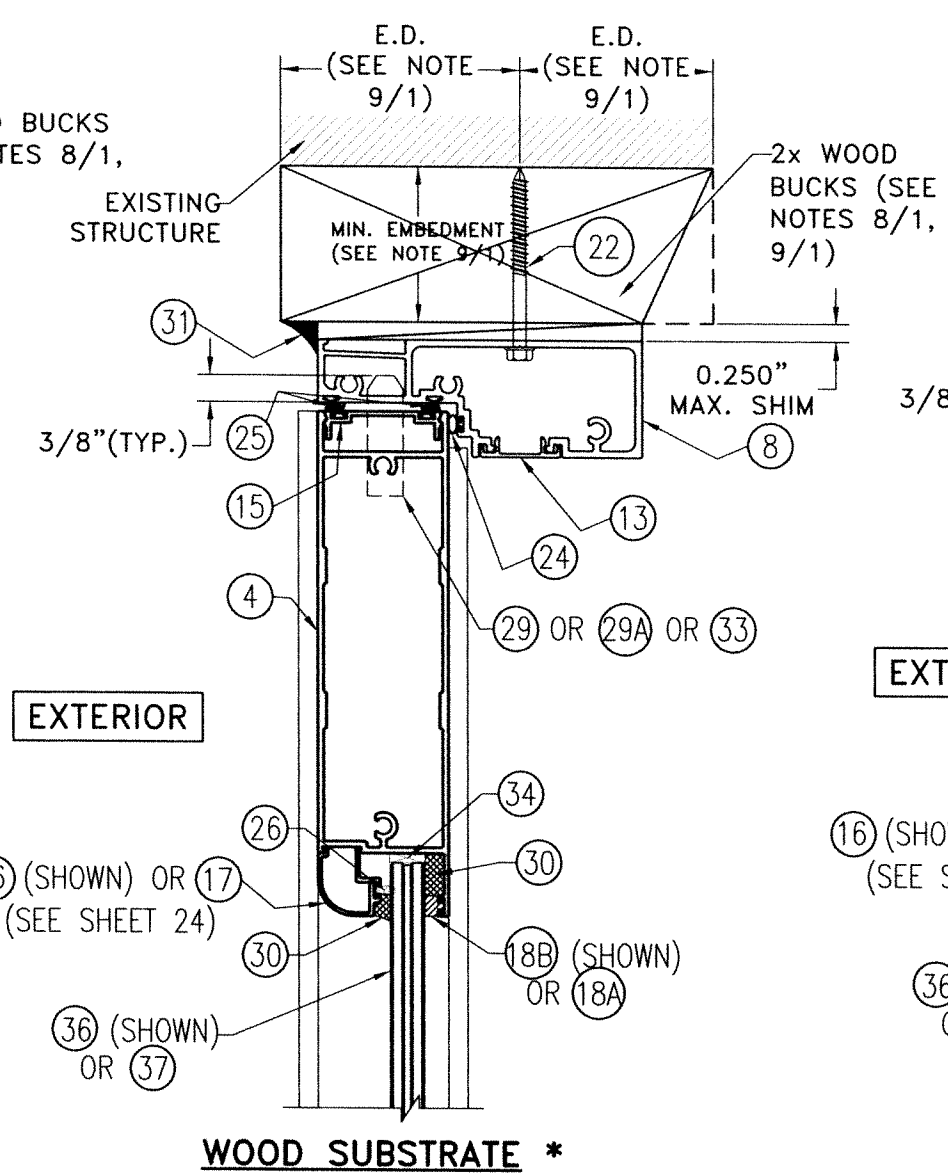
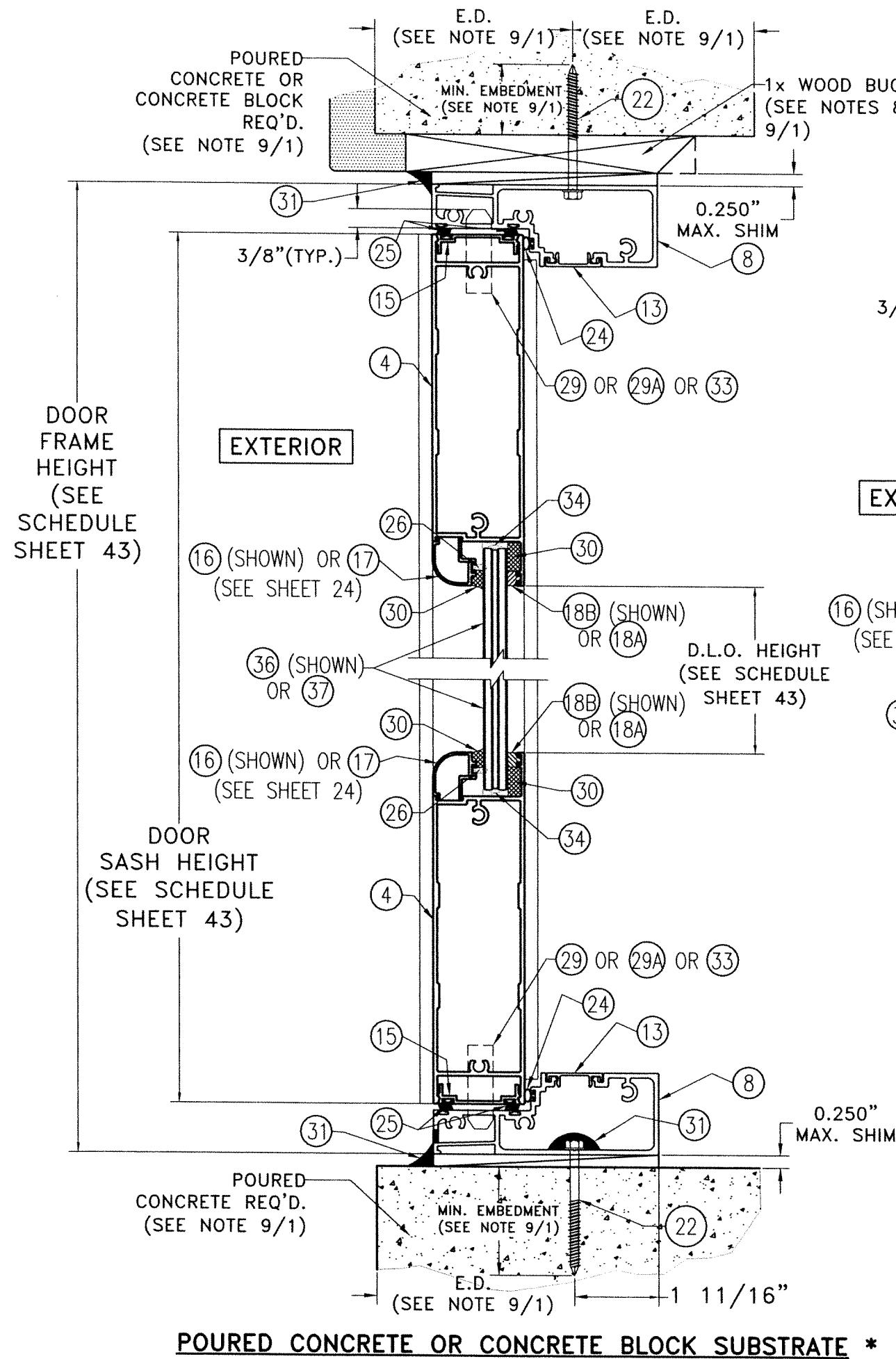
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1	OLD 23-156	09/06/23	2		

SHEET 32 OF 45

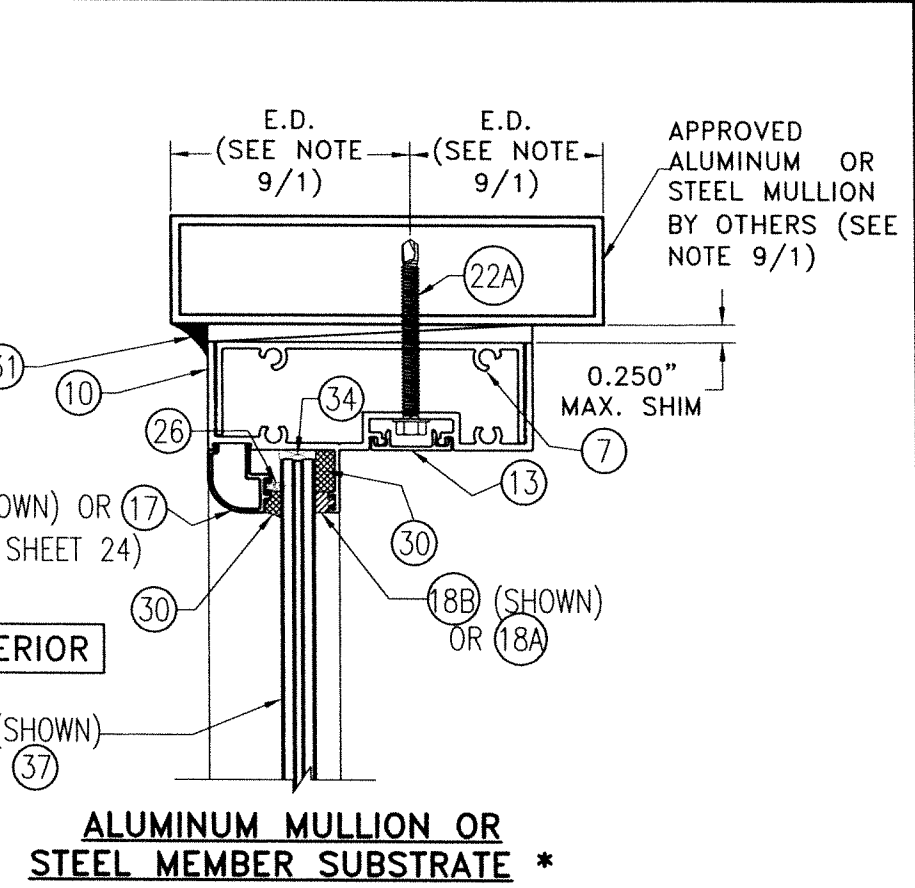
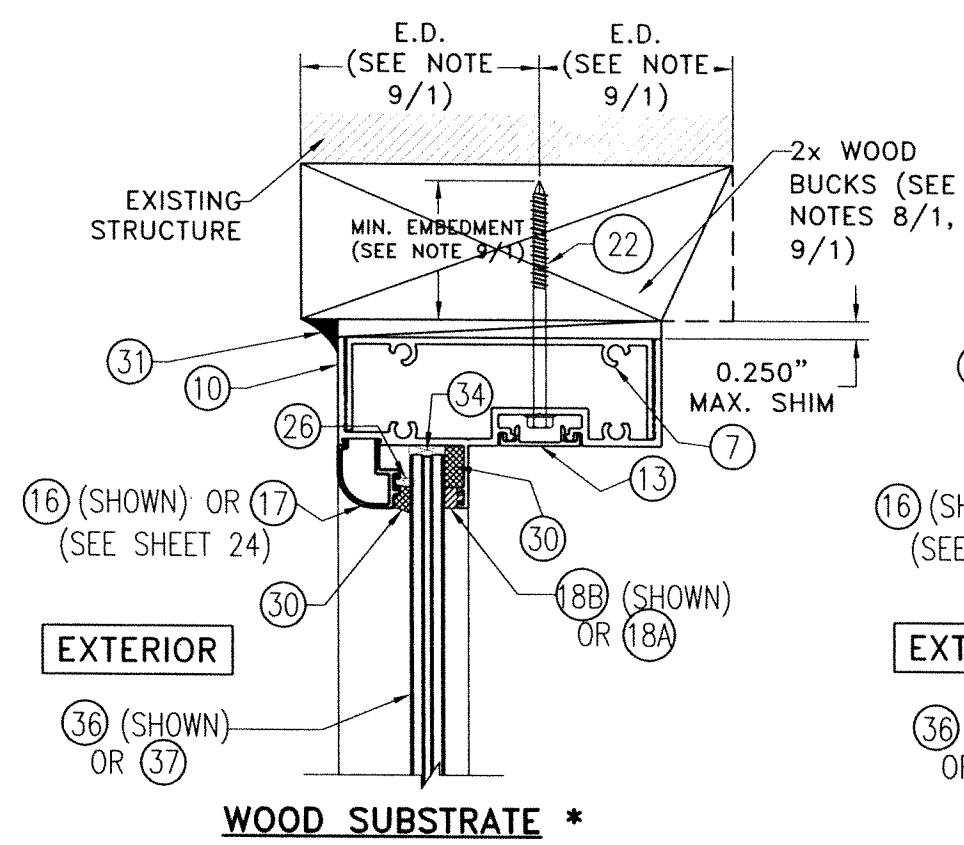
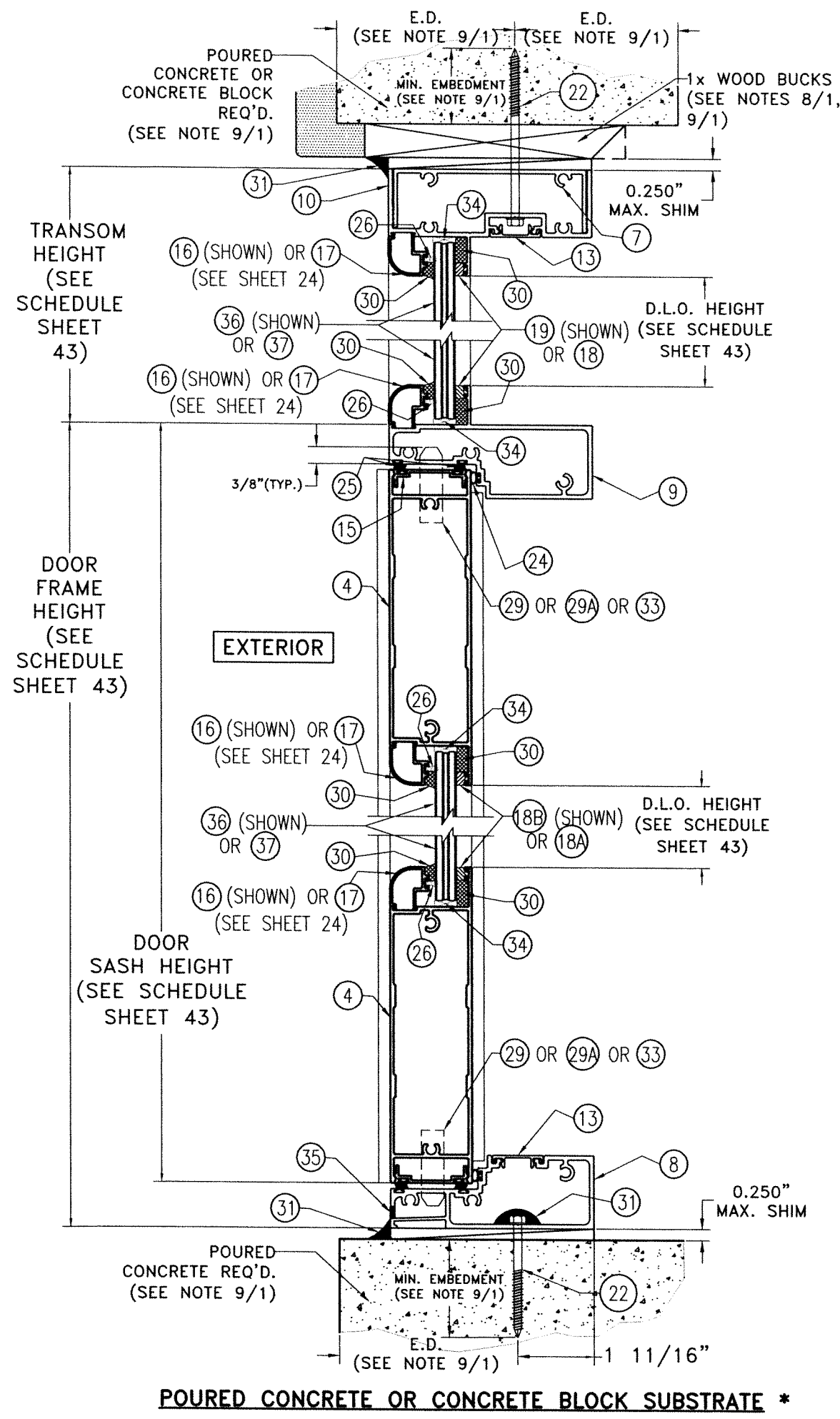


SECTION K-K SCALE: N.T.S OPTIONAL SYSTEM # 2

* 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
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)					
©2023 TILTECO, INC.			SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES		DRAWN BY W.H.
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719			 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com		09/06/2023 DATE
WALTER A. TILLIT JR. P.E. FLORIDA Lic. # 44167			23-209 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		

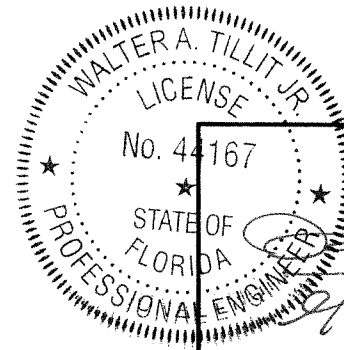


SECTION L-L

SCALE: N.T.S

OPTIONAL SYSTEM # 2

* 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.



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SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES

STC WINDOWS & DOORS

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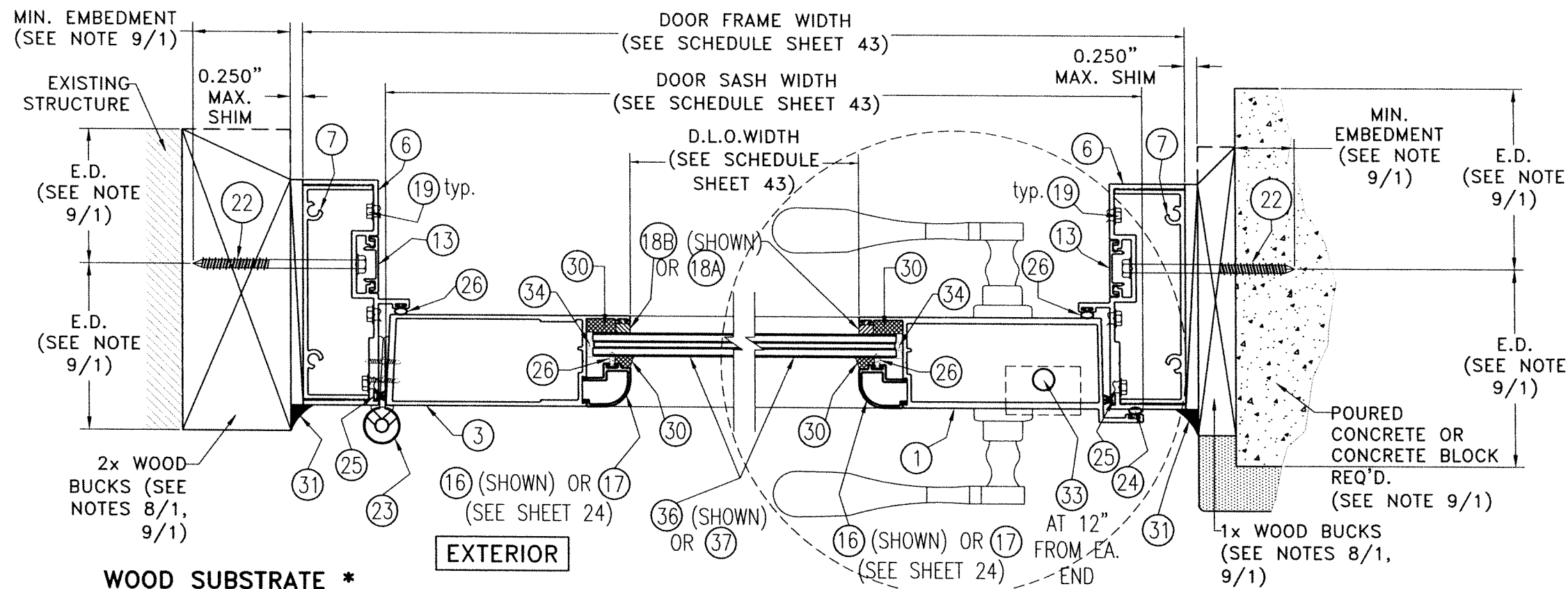
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W.H.

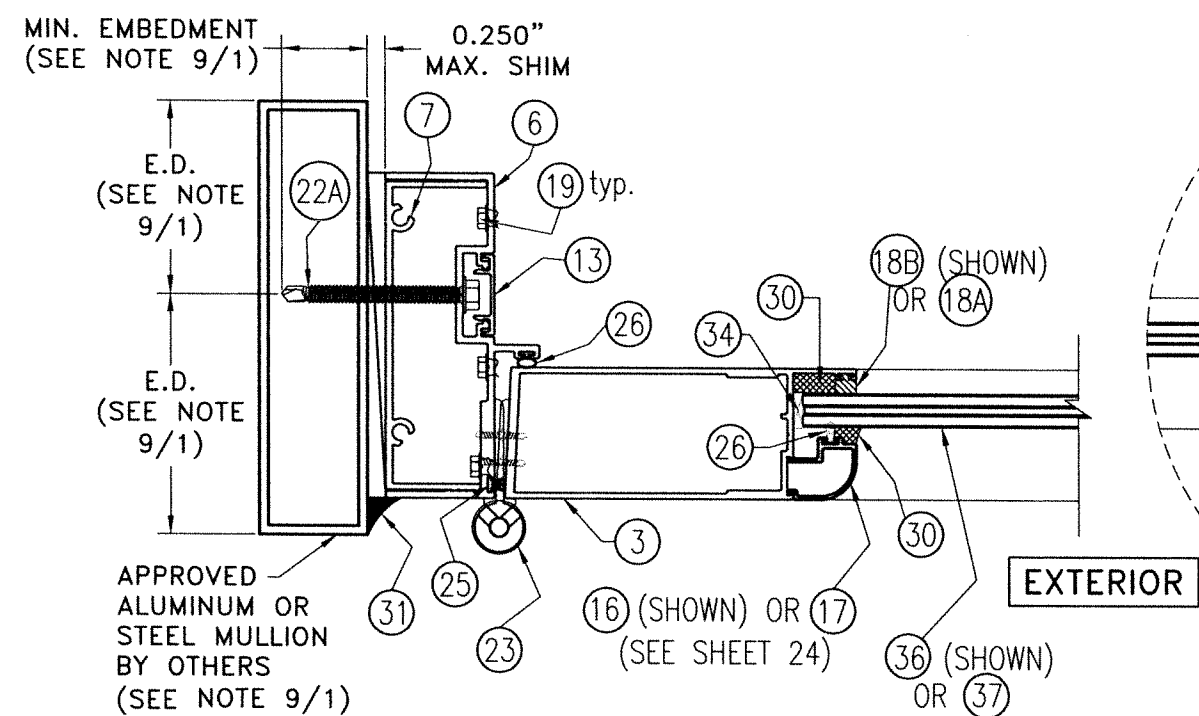
09/06/2023
DATE

23-209
DRAWING No

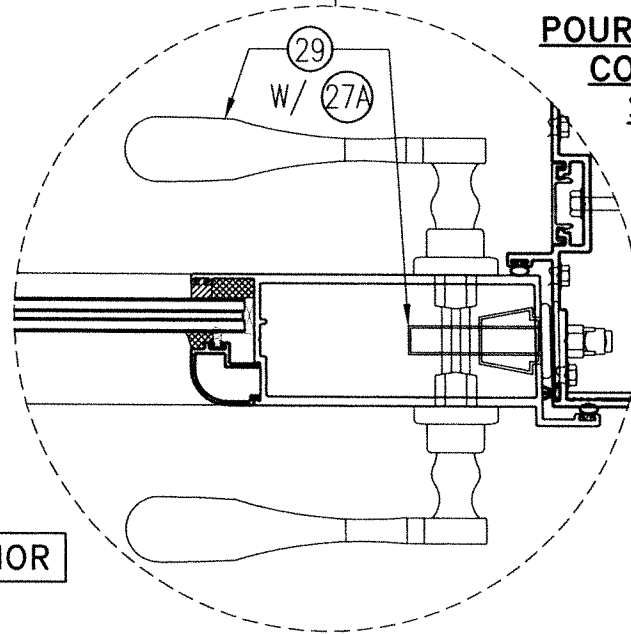
SHEET 34 OF 45



WOOD SUBSTRATE *



**ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE ***



**POURED CONCRETE OR
CONCRETE BLOCK
SUBSTRATE ***

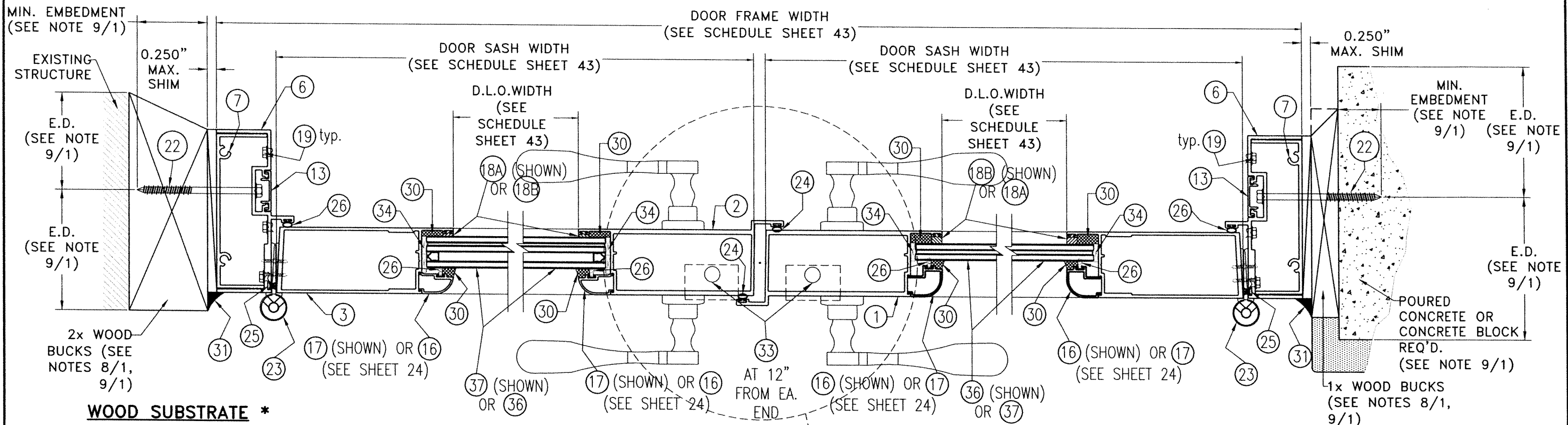
* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

OPTIONAL SYSTEM # 2

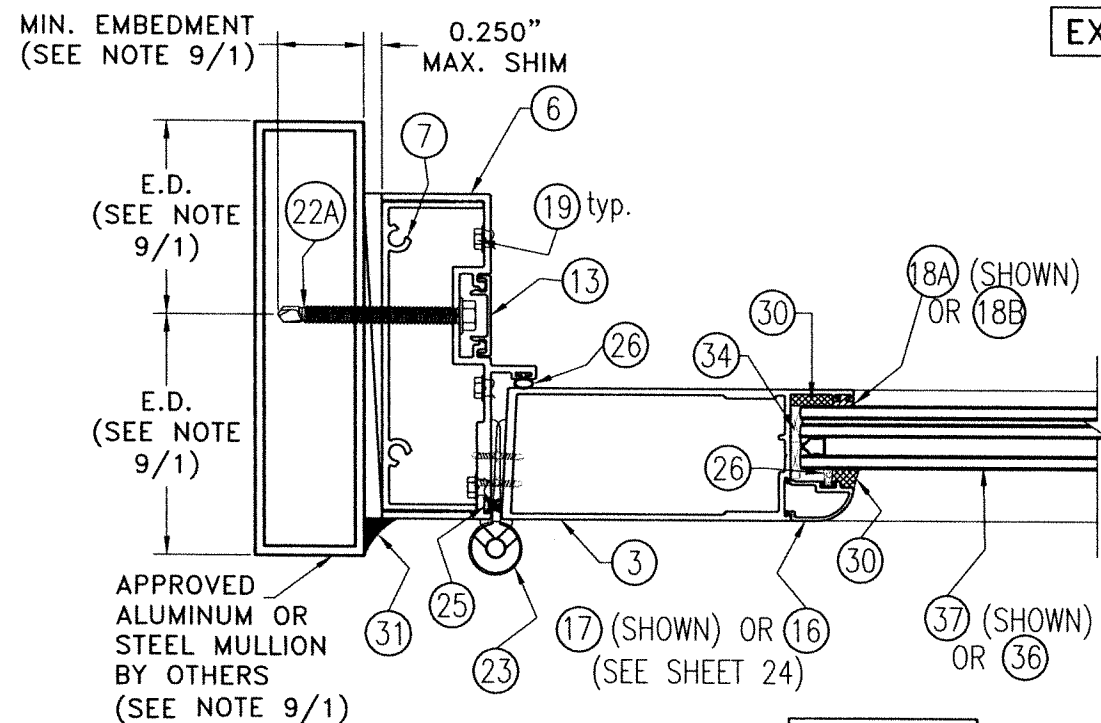
SECTION N-N @ SINGLE DOOR
SCALE: N.T.S

VARIANCE W/ 29
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

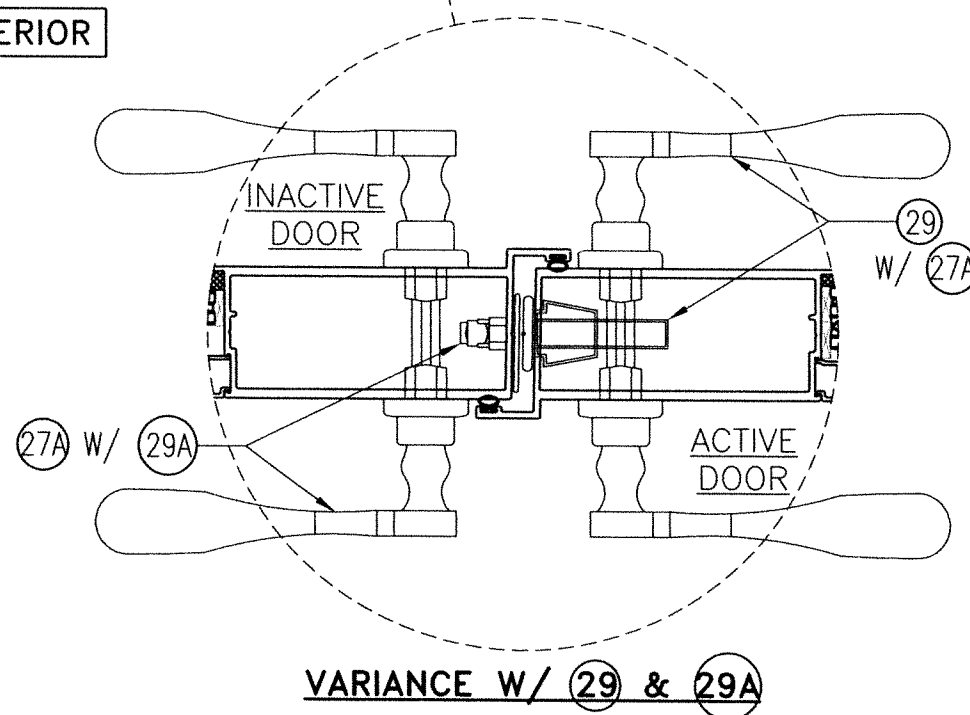
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)					
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290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com			GIG WINDOWS & DOORS		09/06/2023 DATE
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		
					SHEET 36 OF 45



EXTERIOR



EXTERIOR

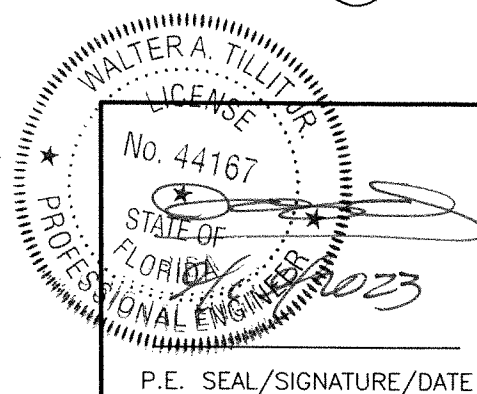


* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

OPTIONAL SYSTEM # 2

SECTION O-O @ DOUBLE DOOR

SCALE: N.T.S



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FLORIDA Lic. # 44167

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

SERIES 24000 LMSZ IMPACT RESISTANT
OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES

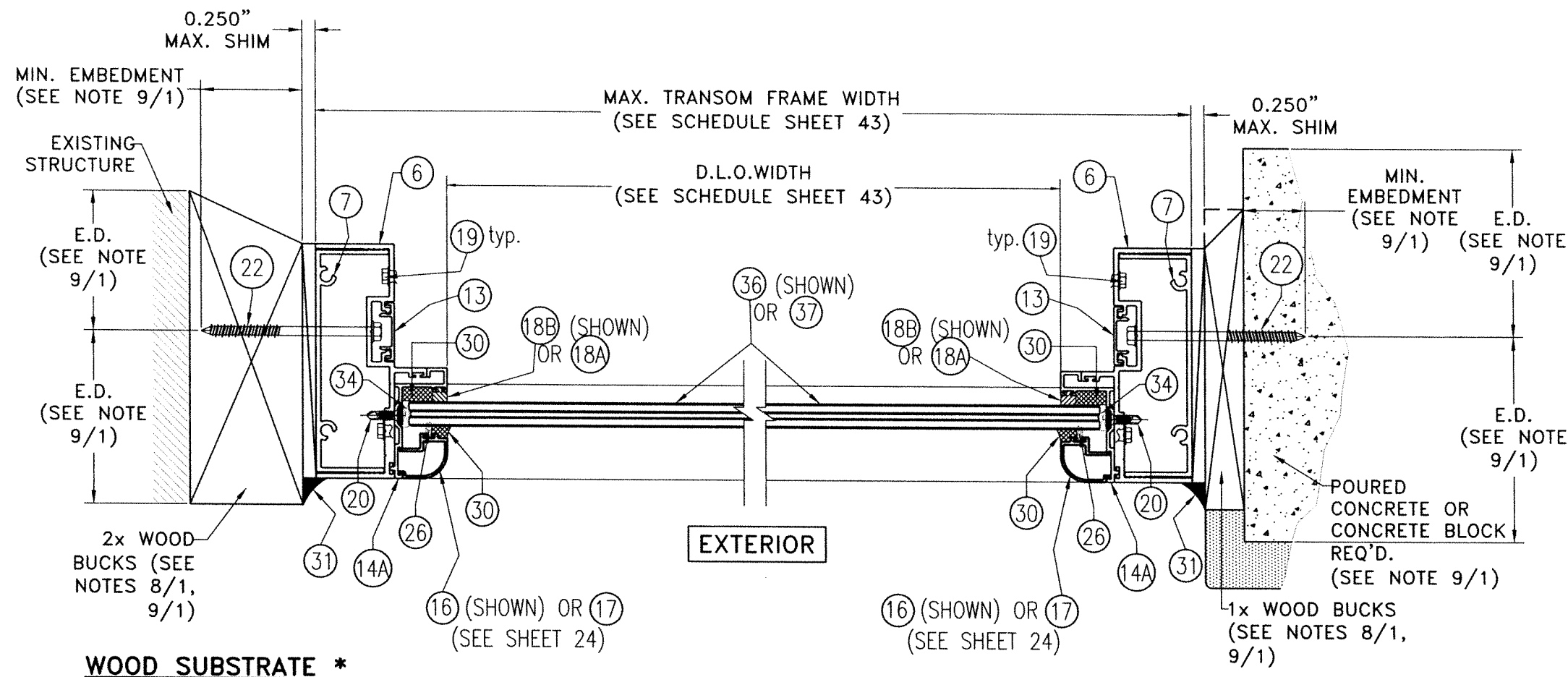
DRAWN BY
W.H.

09/06/2023
DATE

23-209
DRAWING No

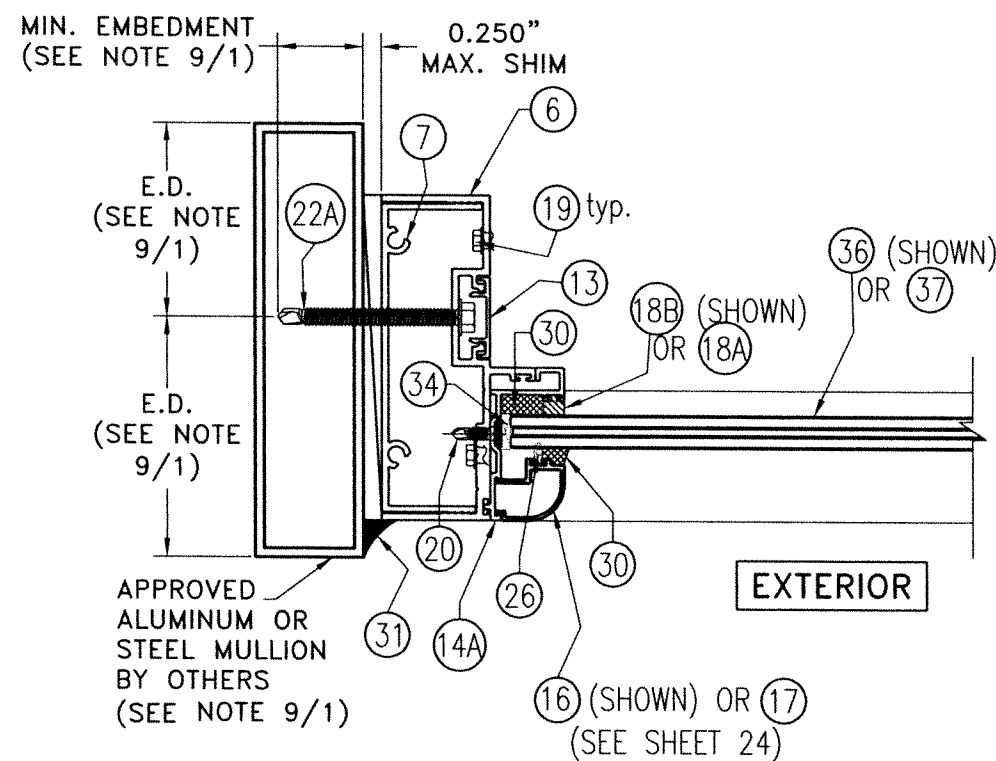
290 WEST 78 ROAD HALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		

SHEET 37 OF 45



WOOD SUBSTRATE *

**POURED CONCRETE
OR CONCRETE
BLOCK SUBSTRATE ***



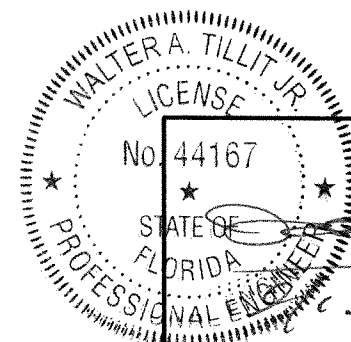
**ALUMINUM MULLION OR
STEEL MEMBER SUBSTRATE ***

* JAMB 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 JAMBS.

SECTION P-P @ TRANSOM

SCALE: N.T.S

OPTIONAL SYSTEM # 2



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

**SERIES 24000 LMSZ IMPACT RESISTANT
OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES**



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HALEAH, FL 33014
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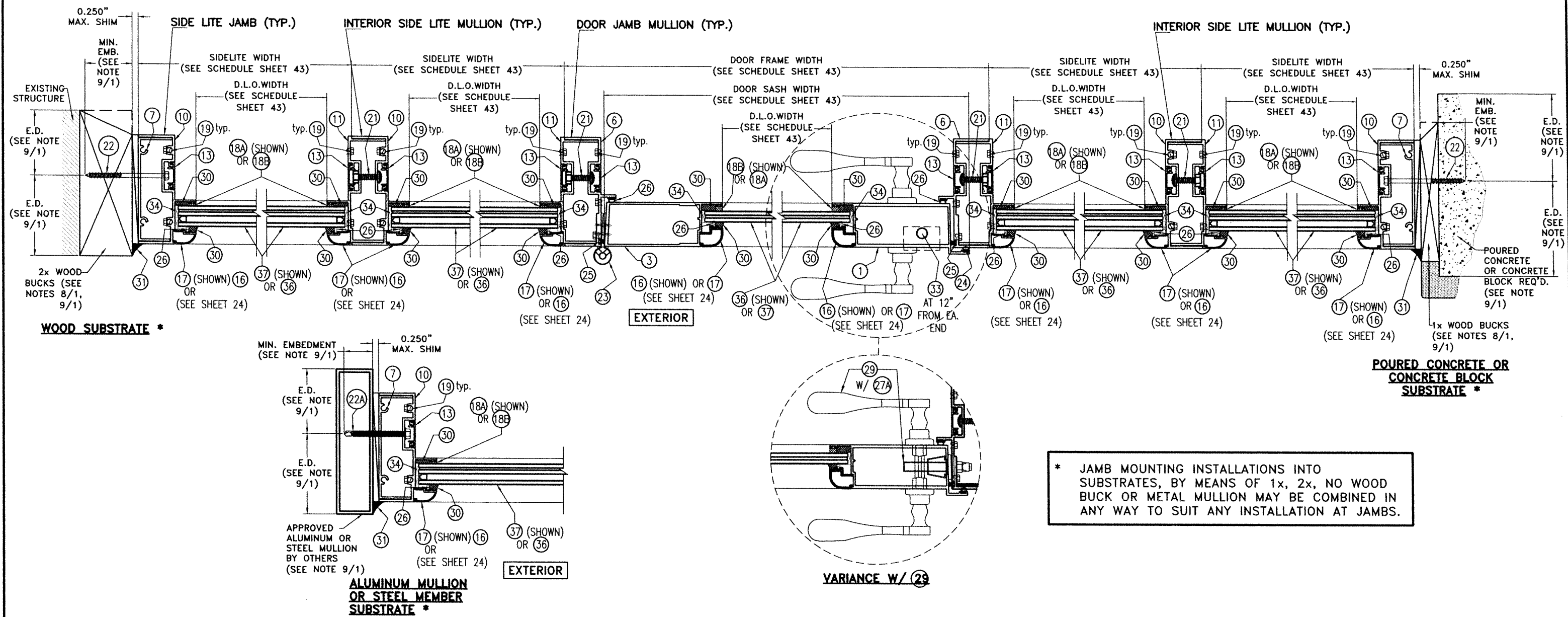
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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DRAWN BY
W.H.

09/06/2023
DATE

23-209
DRAWING No

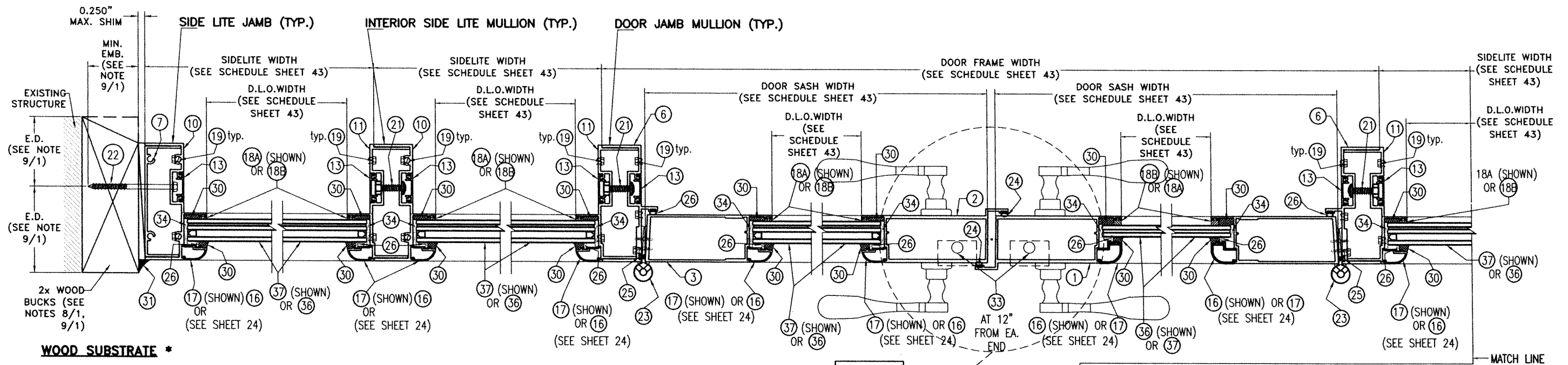
SHEET 38 OF 45



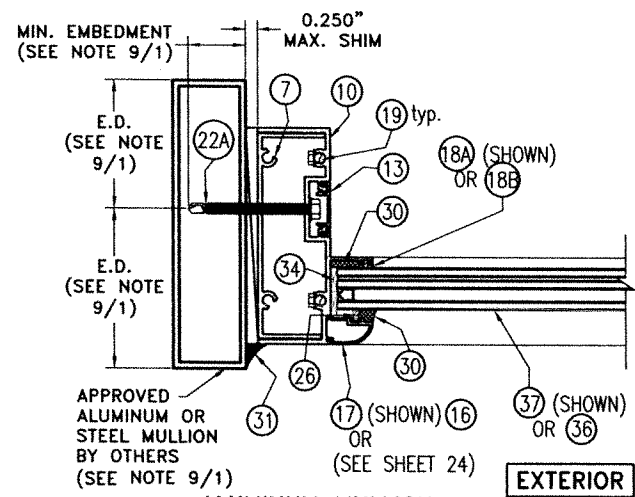
SECTION Q-Q @ SINGLE DOOR W/ SIDELITES SCALE: N.T.S **OPTIONAL SYSTEM # 2**

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No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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REV. No. 1			DESCRIPTION 1		23-209 DRAWING No
DATE 08/06/23			REV. No. 2		SHEET 39 OF 45

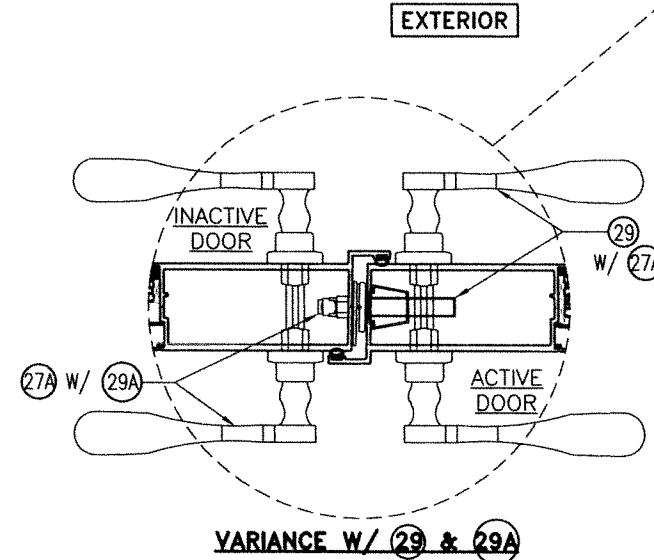


WOOD SUBSTRATE *

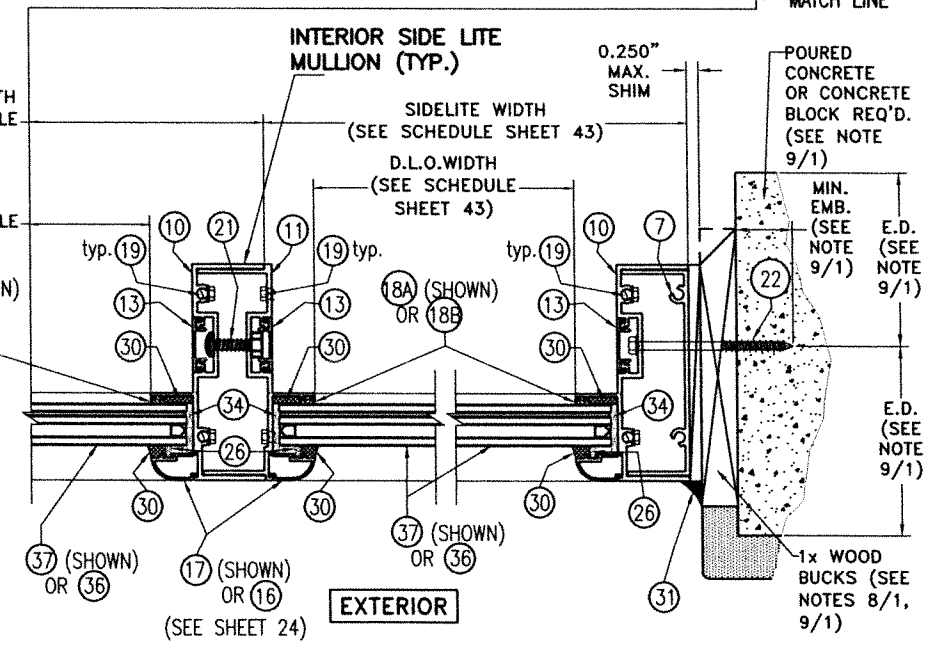


**ALUMINUM MULLION
OR STEEL MEMBER
SUBSTRATE ***

* JAMB 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 JAMBS.



VARIANCE W/ 29 & 29A



POURED CONCRETE OR CONCRETE BLOCK SUBSTRATE *

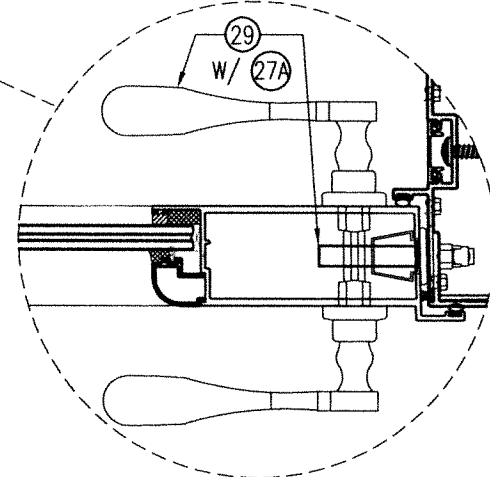
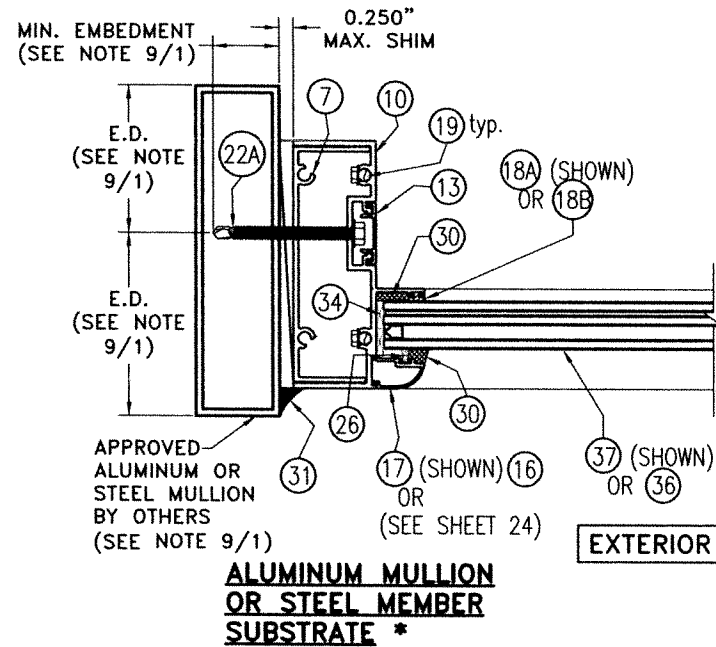
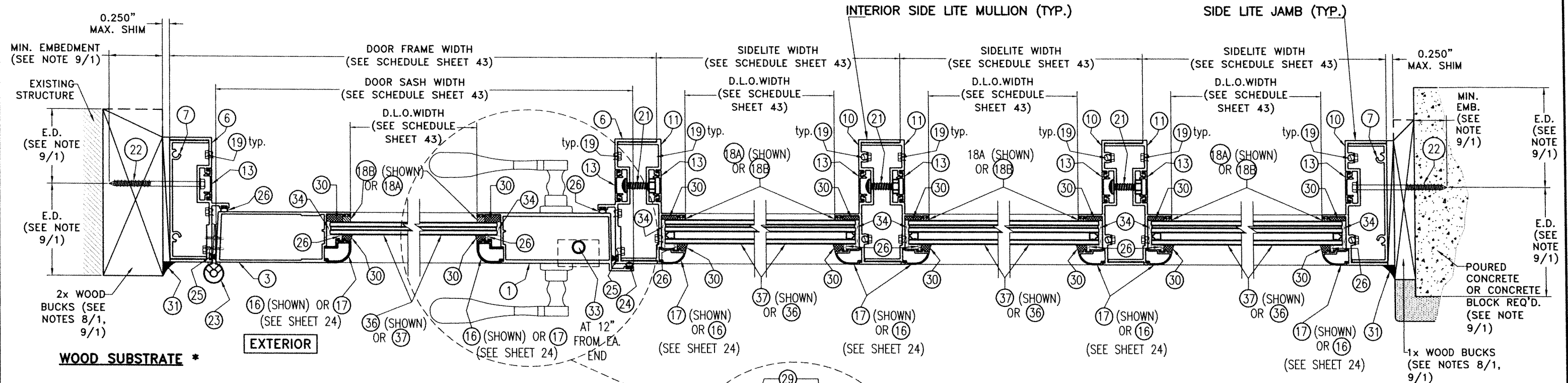
SECTION R-R @ DOUBLE DOOR W/ SIDELITES

SCALE: N.T.S

OPTIONAL SYSTEM # 2

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

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REV. No 1	DESCRIPTION OLD 23-156	DATE 09/06/23	REV. No 2	DESCRIPTION	DATE

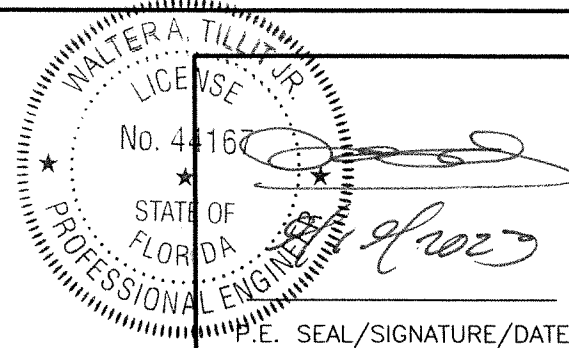


* JAMB MOUNTING INSTALLATIONS INTO SUBSTRATES, BY MEANS OF 1x, 2x, NO WOOD BUCK OR METAL MULLION MAY BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION AT JAMBS.

SECTION S-S @ SINGLE DOOR W/ SIDELITES

SCALE: N.T.S.

OPTIONAL SYSTEM # 2



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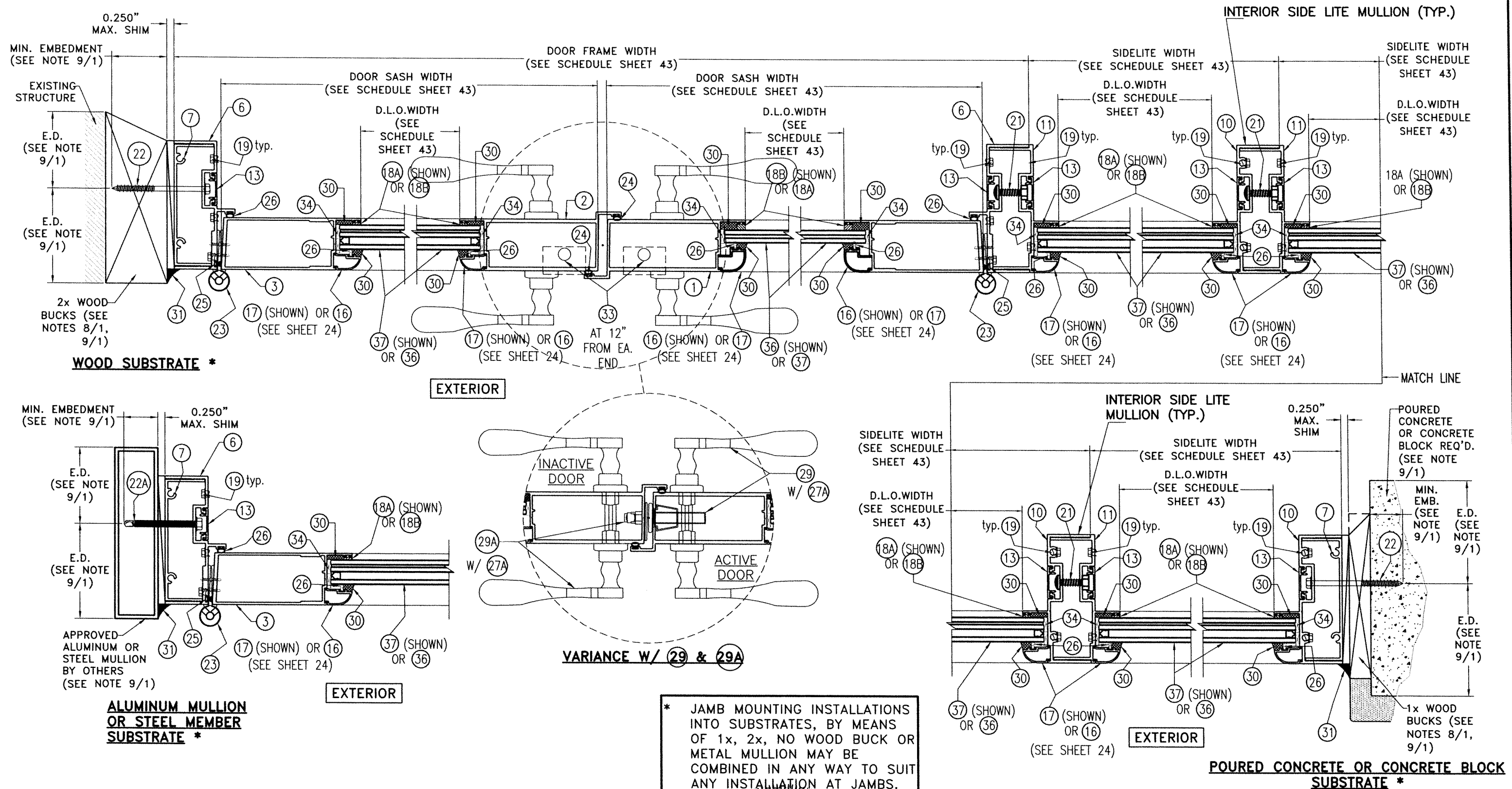
CA-0006719

WALTER A. TILLIT Jr. P.E.

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

SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES				DRAWN BY W.H.	
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				23-209 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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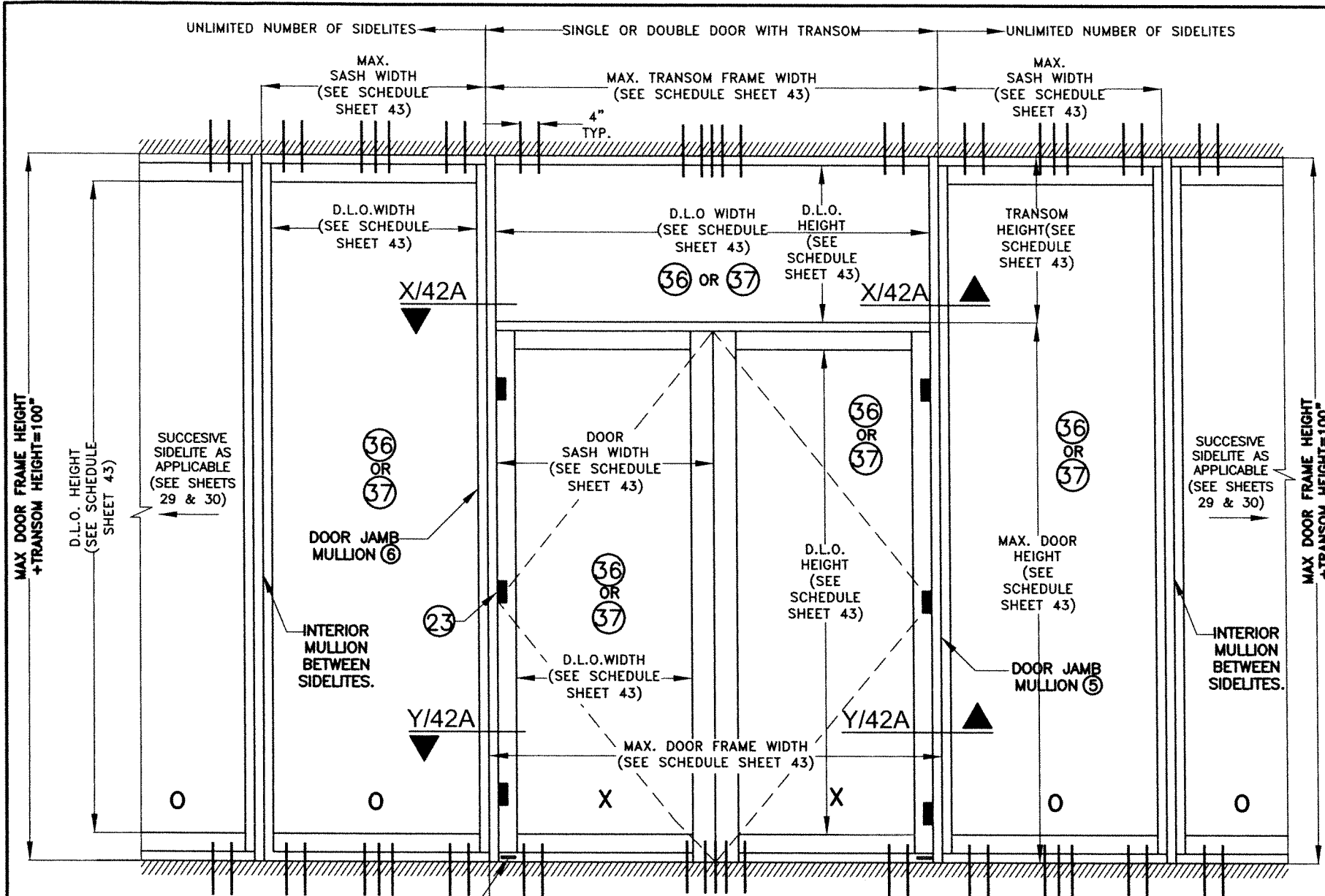


**SECTION T-T @ DOUBLE
DOOR W/ SIDELITES**
SCALE: N.T.S.
OPTIONAL SYSTEM # 2

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

P.E. SEAL/SIGNATURE/DATE

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290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-8665 www.gigwindows.com			DRAWN BY W.H. 09/06/2023 DATE 23-209 DRAWING No SHEET 42 OF 45		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		



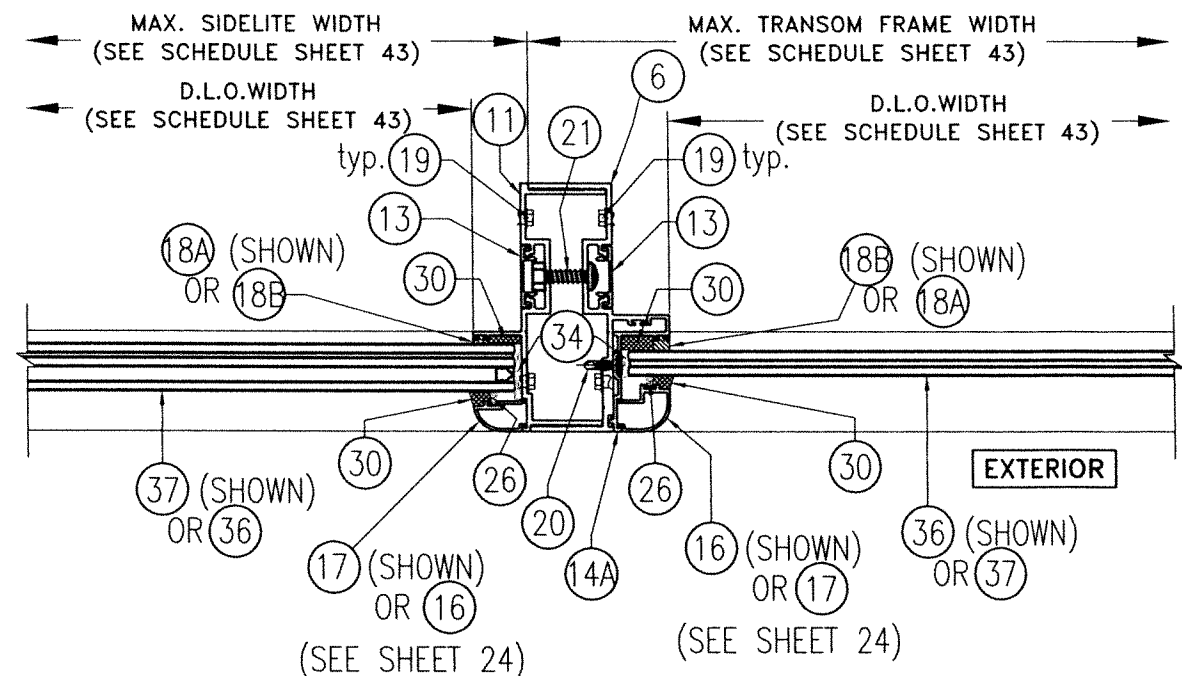
TYPICAL SPECIAL CONDITION FOR INSTALATION OF SINGLE/DOUBLE DOOR W/ SIDELITES & LIMITED TRANSOM HEIGHT:

SCALE: N.T.S

NOTE: *

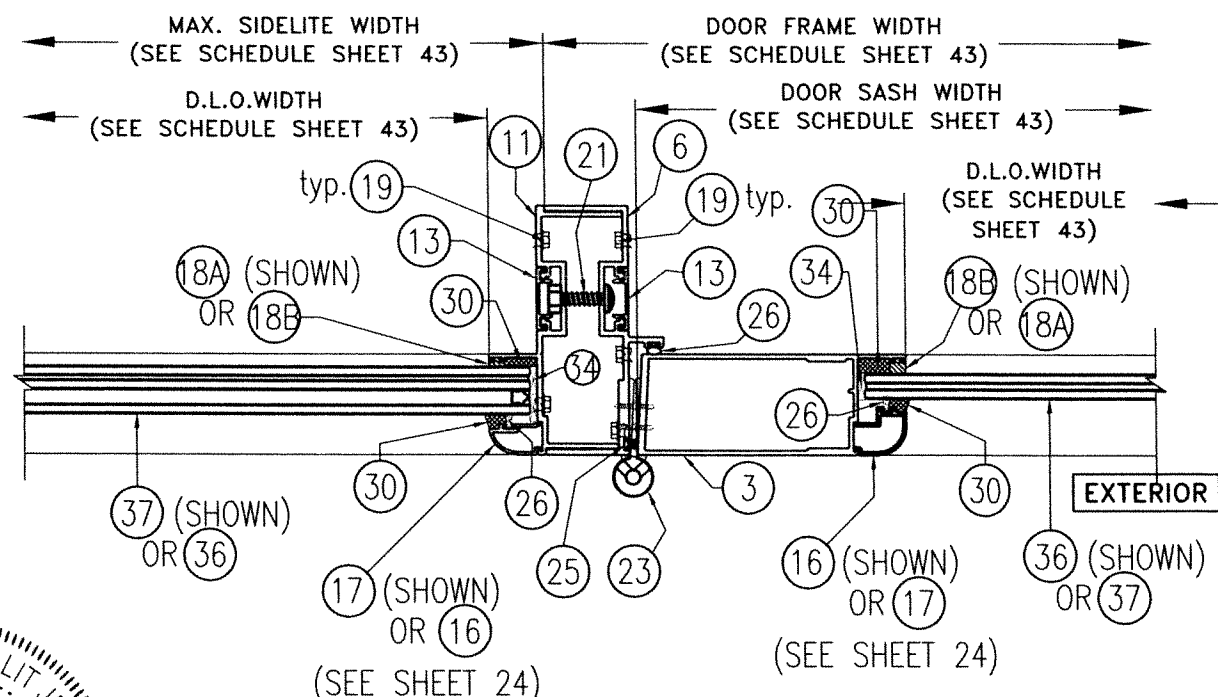
- (I) SINGLE OR DOUBLE FRENCH DOORS WITH TRANSOM MAY BE COMBINED IN ANY SUCCESSIVE ARRANGEMENT JOINTLY WITH FIXED GLASS SIDELITES AND A TRANSOM TO CONFORM TO ANY INSTALLATION. FOR THIS COMBINATION TO BE FEASIBLE THE FOLLOWING PROCEDURE & REQUIREMENTS SHALL BE APPLIED:
 - (I.1) INTERIOR MULLIONS BETWEEN SIDELITES SHALL ALWAYS CONSIST OF MULLION DESCRIBED ON SECTIONS Q.R.S.I SHEETS 39 THRU 42 ADDITIONALLY ON SECTIONS X.Y SHEET 42A
 - (I.2) DOOR JAMB MULLIONS SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS Q.R.S.I SHEETS 39 THRU 42 ADDITIONALLY ON SECTIONS X.Y SHEET 42A
 - (I.3) JAMBS SHALL ALWAYS BE ATTACHED TO EXISTING SUBSTRATES W/ ANCHORS AS PER GENERAL NOTE 9, SHEET 1 & AT SPACINGS PER SCHEDULE ON SHEET 43.
 - (I.4) TOP & BOTTOM ANCHORS FOR INTERIOR MULLIONS BETWEEN SIDELITES SHALL BE AS INDICATED ON ELEVATIONS SHEETS 29 THRU 32 ADDITIONALLY DOOR JAMB MULLION ELEVATION ON SHEET 42A AND SCHEDULES ON SHEET 43.
- (II) SUCCESSIVE SIDE LITES MAY BE INSTALLED AT RESIDENTIAL BUILDINGS AS LONG AS THE FOLLOWING PROCEDURE AND REQUIREMENTS APPLY.
 - (II.1) JAMBS ARE ATTACHED TO EXISTING SUBSTRATE AT BUILDINGS W/ANCHORAGE AS PER SCHEDULES ON SHEET 43.
 - (II.2) INTERIOR MULLIONS BETWEEN SIDELITES SHALL CONSIST OF MULLIONS DESCRIBED ON SECTIONS Q.R.S.I SHEETS 39 THRU 42 ADDITIONALLY ON SECTIONS X.Y SHEET 42A
 - (II.3) INTERIOR MULLIONS BETWEEN SIDELITES ARE ANCHORED TOP & BOTTOM W/ANCHORAGE PER SCHEDULES SHEET 43.

OPTIONAL SYSTEM # 2



SECTION X-X @ DOOR JAMB MULLION AT TRANSOM

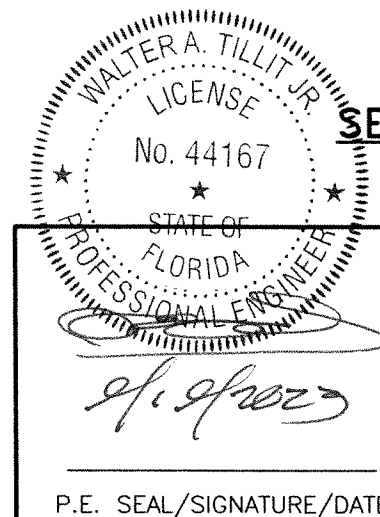
SCALE: N.T.S



SECTION Y-Y @ DOOR JAMB MULLION AT DOOR

SCALE: N.T.S

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



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

SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES				DRAWN BY W.H.	
 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-8665 www.gigwindows.com				09/06/2023 DATE	
				23-209 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-156	09/06/23	2		

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

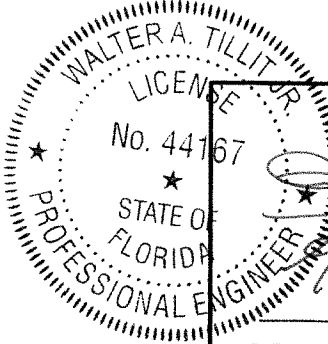
MAX. ASD DESIGN PRESSURE RATING	MAX. DOOR FRAME WIDTH		MAX. DOOR FRAME HEIGHT	MAX. DOOR SASH WIDTH *	MAX. DOOR SASH HEIGHT	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT
	AT SINGLE DOOR	AT DOUBLE DOOR					
+45, -45 psf	3'-5 1/2"	6'-8"	10'-0"	3'-2 1/2"	9'-9 1/2"	2'-4"	8'-8"
+49, -49 psf	3'-5 1/2"	6'-8"	9'-8"	3'-2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

OPTIONAL SYSTEM # 2



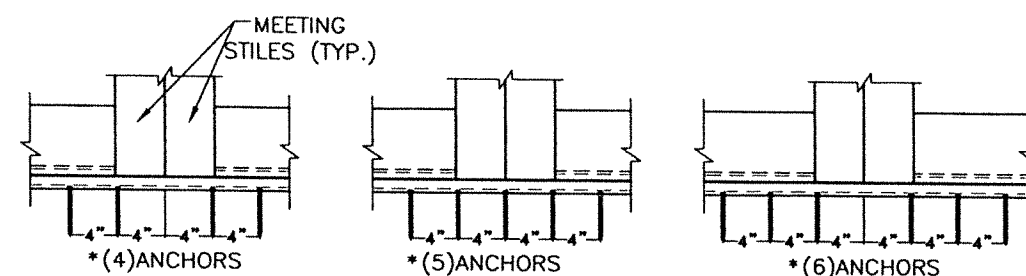
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FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.		SERIES 24000 LMSZ IMPACT RESISTANT OUTSWING FRENCH DOOR W/ TRANSOM OR W/ SIDELITES		DRAWN BY W.H.		
 TILLIT TESTING & ENGINEERING COMPANY 8355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719		 290 WEST 78 ROAD HIALEAH, FL 33014 PH: (954)226-5555/(305)558-8103 FAX: (305)558-6665 www.gigwindows.com		09/06/2023 DATE		
WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		23-209 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 43 OF 45
1	OLD 23-156	09/06/23	2			

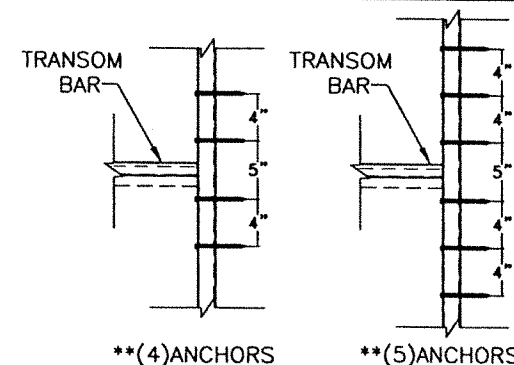
REQ'D NUMBER OF ANCHORS AT HEAD/SILL CLUSTER
OF ANCHORS AT DOUBLE DOOR, AT MEETING STILES *

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 **

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

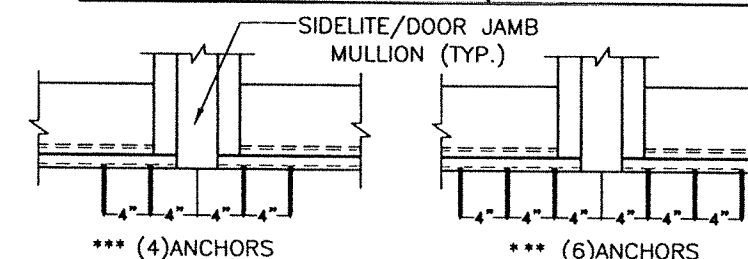


MAXIMUM ANCHOR SPACING "S" SCHEDULE
AT JAMBS OF DOOR, SIDELITE & TRANSOM

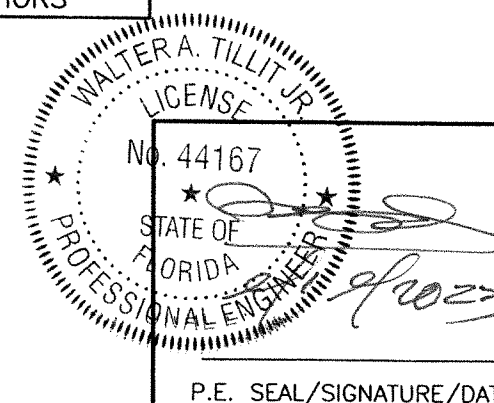
SUBSTRATE	ANCHOR TYPE	A.S.D. DESIGN PRESSURE RATING (psf)	"S"
CONCRETE	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
BLOCK	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
WOOD	1/4"Ø ITW/BUILDEX TAPCON ANCHOR (22)	+70.0, -70.0	11" O.C.
ALUMINUM TUBE OR STEEL MEMBER	1/4"Ø-14 ITW/BUILDEX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

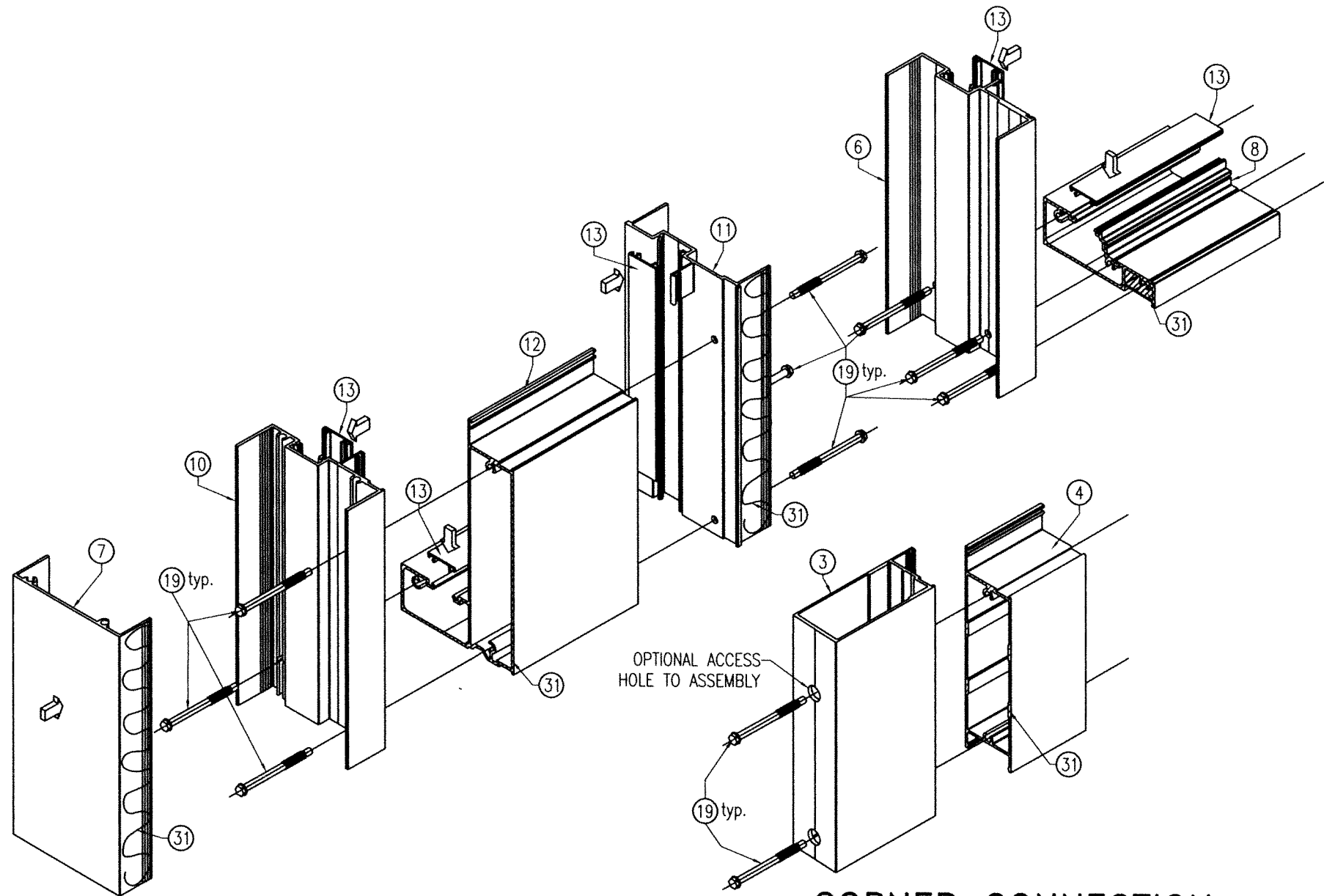
ASD DESIGN PRESSURE RATING	SUBSTRATE
	CONCRETE, BLOCK, WOOD, ALUM., STEEL
UP TO +67.5, -67.5 psf	4 ANCHORS
> +67.5, -67.5 psf UP TO +70, -70 psf	6 ANCHORS



OPTIONAL SYSTEM # 2



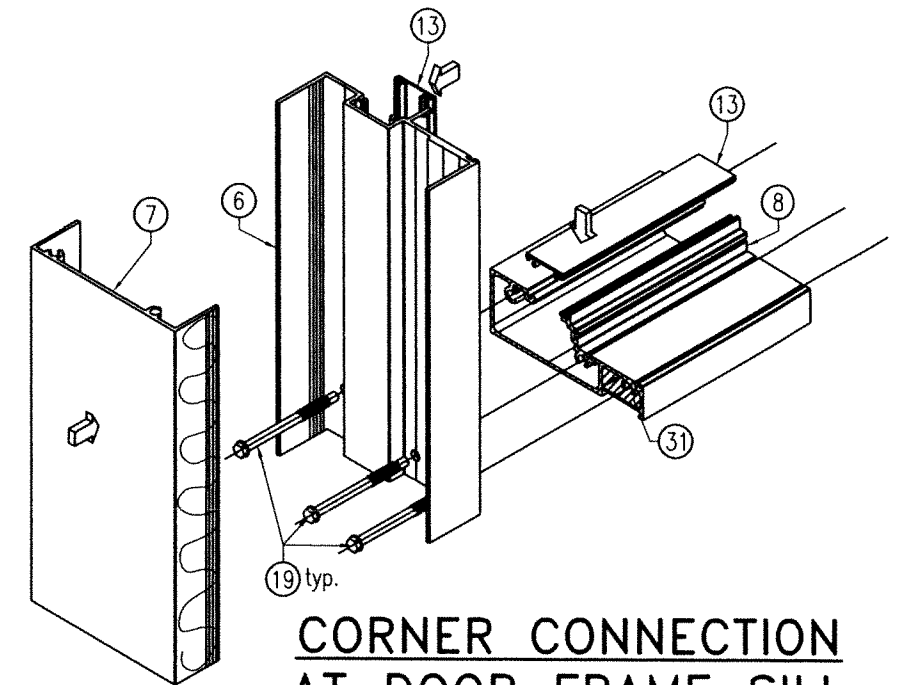
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			SHEET 44 OF 45		



CORNER CONNECTION
AT SIDELITE & DOOR

OPTIONAL ACCESS
HOLE TO ASSEMBLY

CORNER CONNECTION
AT DOOR PANEL

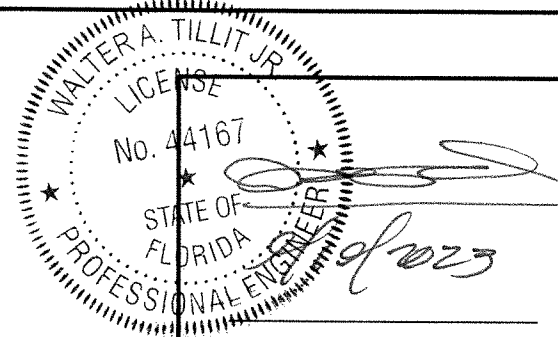


CORNER CONNECTION
AT DOOR FRAME SILL

CORNER DETAILS ISOMETRIC

SCALE: N.T.S

OPTIONAL SYSTEM # 2



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**SERIES 24000 LMSZ IMPACT RESISTANT
OUTSWING FRENCH DOOR W/ TRANSOM
OR W/ SIDELITES**



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DRAWN BY
W.H.

09/06/2023
DATE

23-209
DRAWING No

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