

GENERAL NOTES AND SPECIFICATIONS:

1. SINGLE PANEL WOOD PIVOT DOOR SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE (FBC). THIS PRODUCT MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES OR OUT OF IT.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 & 1609 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON NOTE 2 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 2.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY, INC. REPORT No. 9888, QAI LABORATORIES REPORT No. QA-4064a 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. MAXIMUM (ALLOWABLE STRESS DESIGN=A.S.D) DESIGN PRESSURE RATING IS: +66.0 psf., -66.0 psf WITH REQUIRED HARDWARE. AS PER ELEVATIONS SHOWN ON SHEET 2.

3A. THIS PRODUCT IS APPROVED FOR AIR INFILTRATION.

3B. THIS PRODUCT IS APPROVED FOR WATER INFILTRATION IF EITHER OF THE FOLLOWING CONDITIONS ARE COMPLIED WITH:

3B.1 WHEN CANOPY IS PROVIDED IMMEDIATELY ABOVE THE DOOR LOCATION COVERING THE ENTIRE WIDTH OF DOOR AND PROJECTING OUT A DISTANCE EQUAL OR LARGER THAN THE DOOR HEIGHT, PER FLORIDA BUILDING CODE SECTION 1709.5.2. AND AS PER DETAILS ON SHEETS 7, 7A AND 7B.

3B.2 WHEN NO CANOPY IS PROVIDED IMMEDIATELY ABOVE THE DOOR LOCATION BUT A DRAINAGE SYSTEM AS PER DETAILS ON SHEETS 11 AND 12 ARE INSTALLED.

4. ALL COMPONENTS SHALL BE AS PER BILL OF MATERIALS ON SHEET 6.

5. WOOD BUCKS BY OTHERS, MUST BE SOUTHERN PINE #2, G=0.55, AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2326 OF THE FLORIDA BUILDING CODE, AND MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.

6. PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE (TYP.), WHEN ALLOWED BY THIS DRAWING.

7. ALL DOOR FRAME MEMBERS SHALL BE ANCHORED TO EXISTING STRUCTURE FOLLOWING SPECS INDICATED ON SHEETS 2, 7 & 8 AS APPLICABLE.

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

9. PRODUCT MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION AT FENESTRATION IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

10. THIS PRODUCT'S INSTALLATION SHALL STRICTLY COMPLY WITH SPECS INDICATED ON THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

11. ALL DOOR COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING SHALL BE SEALED/CAULK TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL ALL AROUND FULL LENGTH.

12. (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.

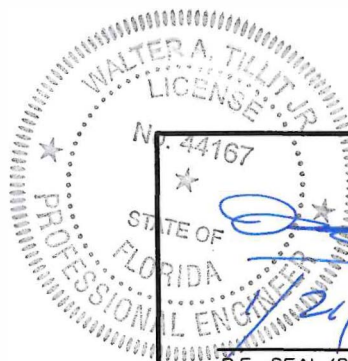
(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

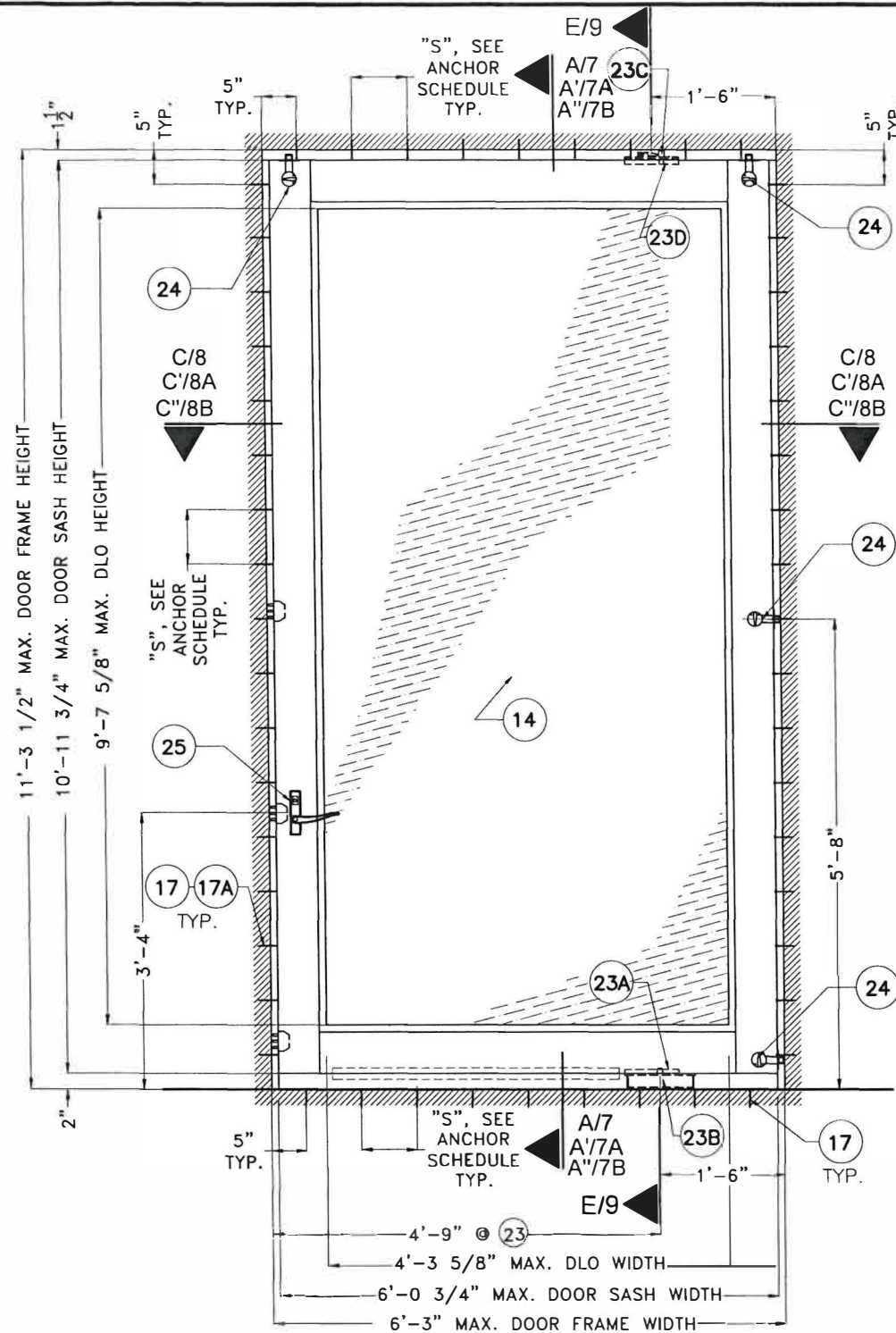
(e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

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



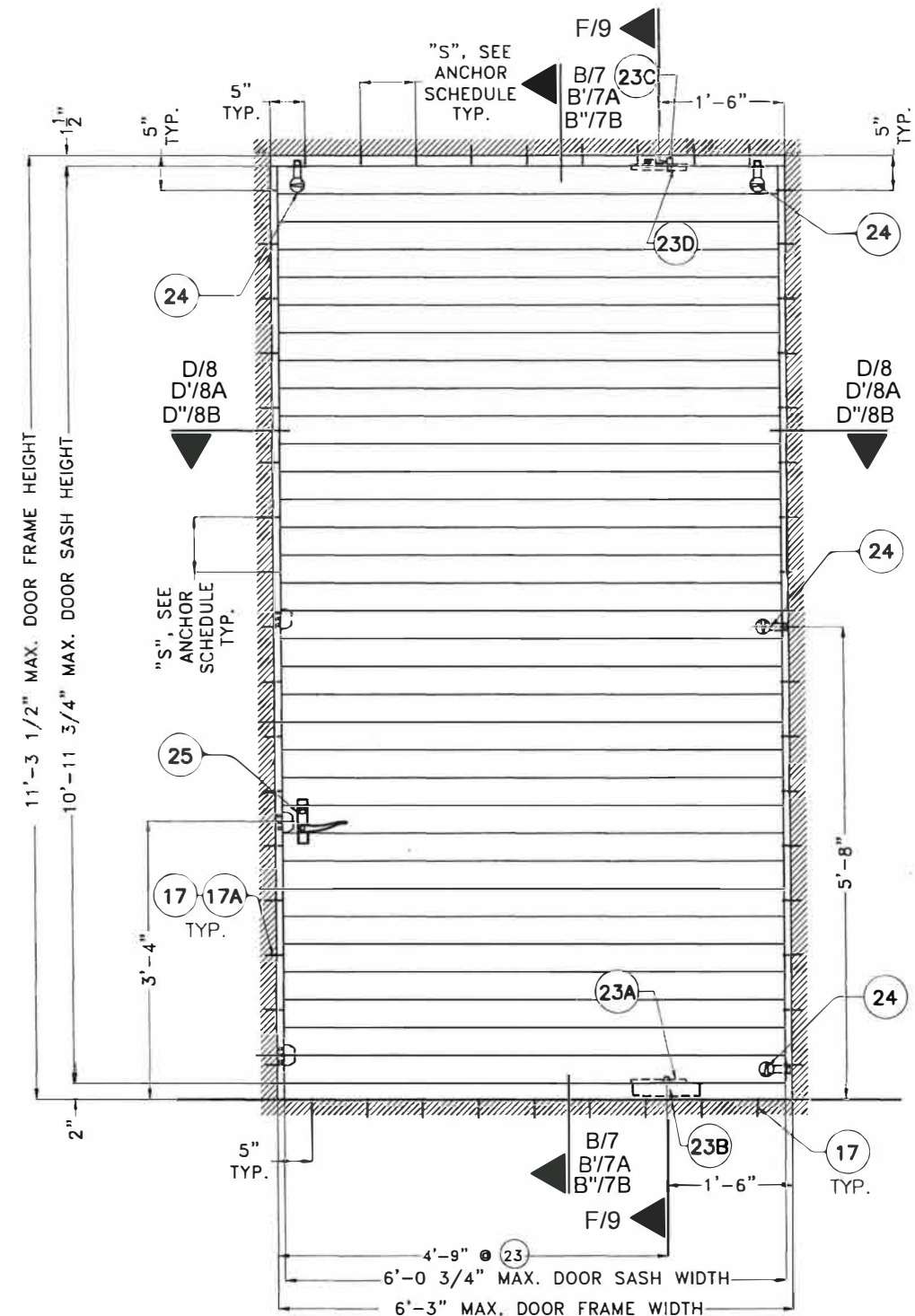
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

©2026 TILTECO, INC.		SINGLE PANEL SOLID/GLAZED WOOD PIVOT DOOR (LARGE MISSILE IMPACT RESISTANT)		C.R.
		IMPACT PRECIOUS WOOD, INC.		DRAWN BY:
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		6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011		10/11/2023 DATE:
REV. NO	DESCRIPTION	DATE		26-008 DRAWING No.
1	OLD 20-290	10/11/23		
2	OLD 23-235 / DRAINAGE	1/17/26		SHEET 1 OF 12



**TYPICAL EXTERIOR ELEVATION
(GLAZED WOOD DOOR)**

SCALE 1/2"=1'-0"

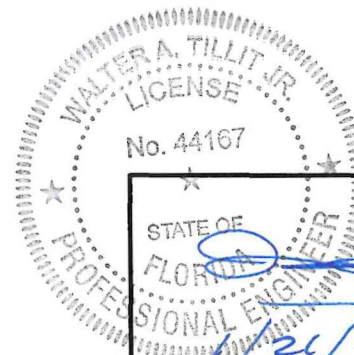


**TYPICAL EXTERIOR ELEVATION
(SOLID WOOD DOOR)**

SCALE 1/2"=1'-0"

**SCHEDULE FOR MAX. SPACING FOR ANCHOR
(17) AND (17A) AT JAMBS, HEAD & SILL**

A.S.D DESIGN PRESSURE RATING W (PSF)	"S"			
	CONCRETE (Min. f _c = 2846 psi) OR CONCRETE BLOCK (Min. ASTM C-90)	WOOD (Min. G=0.55)	METAL	
			ALUMINUM	STEEL
±66.0	8" O.C @ (17)	6 1/2" O.C @ (17)	F _y = 16 ksi 3/8" THK	F _y = 33 ksi 16 gage



P.E. SEAL/SIGNATURE/DATE

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**SINGLE PANEL SOLID/GLAZED WOOD PIVOT
DOOR (LARGE MISSILE IMPACT RESISTANT)**

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DRAWN BY:

IMPACT PRECIOUS WOOD, INC.

10/11/2023
DATE:

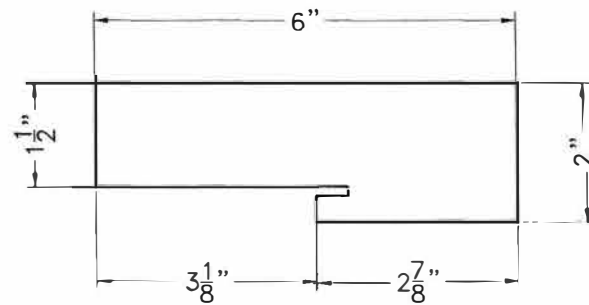
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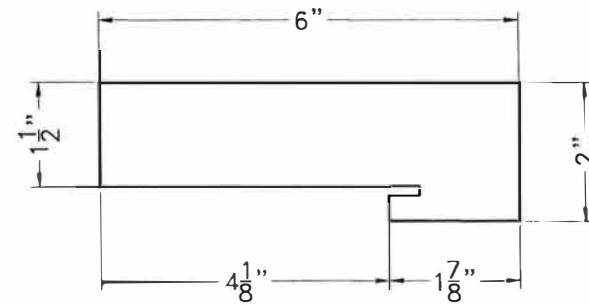
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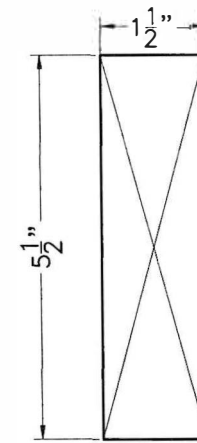
SHEET 2 OF 12



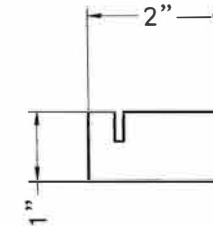
① FRAME HEAD/LOCK JAMB @ GLASS DOOR



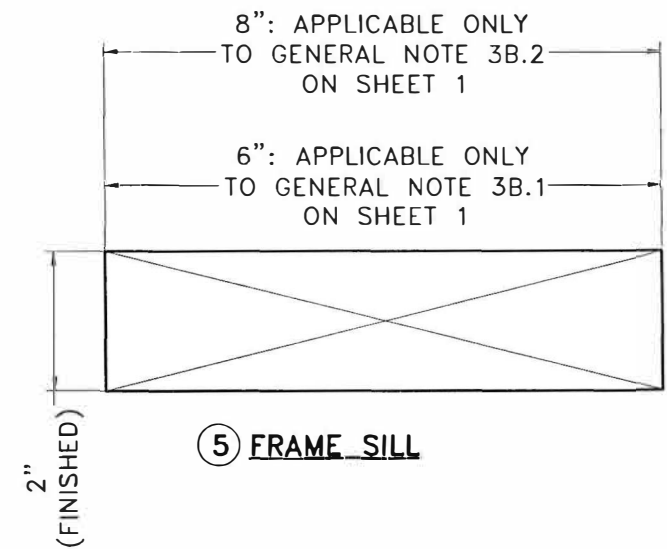
② FRAME HEAD/LOCK JAMB @ WOOD DOOR



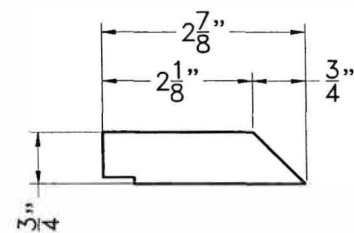
③ PIVOT SIDE JAMB (2"x6" NOMINAL)



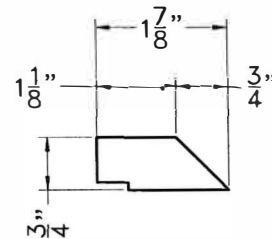
④ PANEL STOP



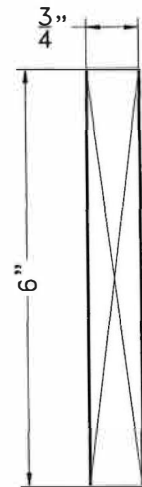
⑤ FRAME SILL



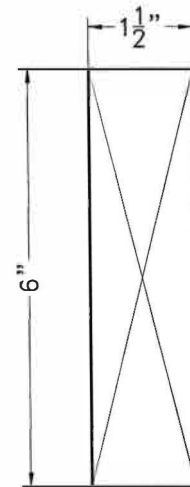
⑥ PANEL STOP @ FRAME SILL @ GLASS DOOR



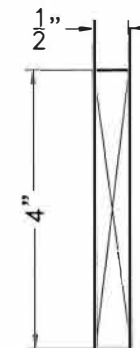
⑦ PANEL STOP @ FRAME SILL @ WOOD DOOR



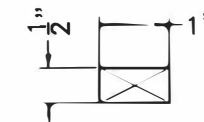
⑧ TOP/BOTTOM RAIL & STILE REINFORCEMENT



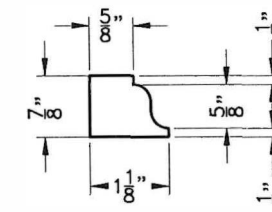
⑨ TOP/BOTTOM RAIL & STILE CORE



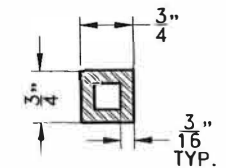
⑩ CLADDING FOR WOOD DOOR



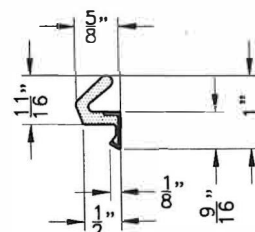
⑩A CLADDING REINFORCEMENT



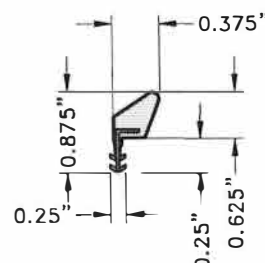
⑪ GLAZING BEAD



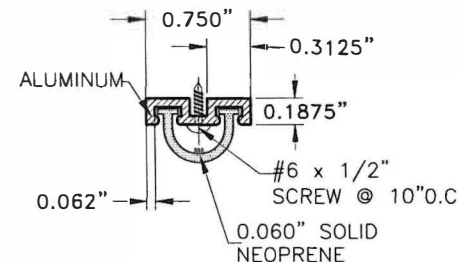
⑫ STEEL REINFORCING TUBE @ SASH



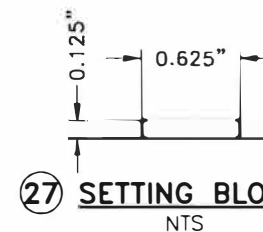
⑱ Q-LON DOOR SEAL NTS



⑲ Q-LON WEATHER SEAL NTS



⑳ WEATHERSTRIP NTS



㉑ SETTING BLOCK NTS

COMPONENTS

SCALE 3/8"=1"

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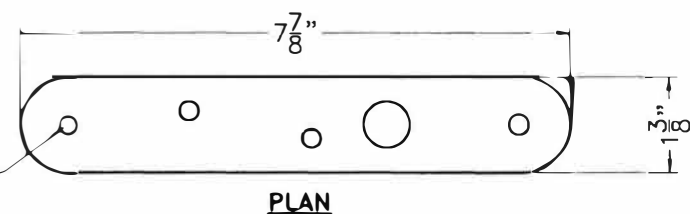
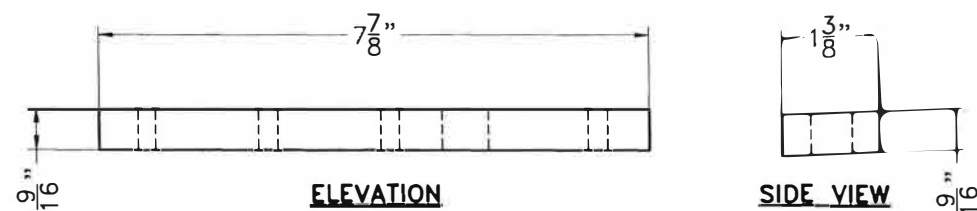
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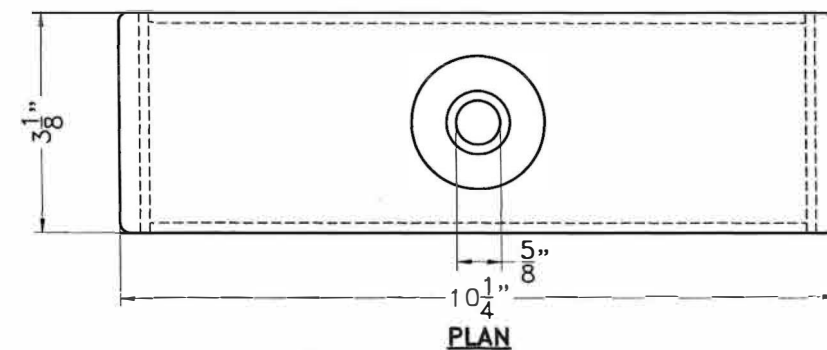
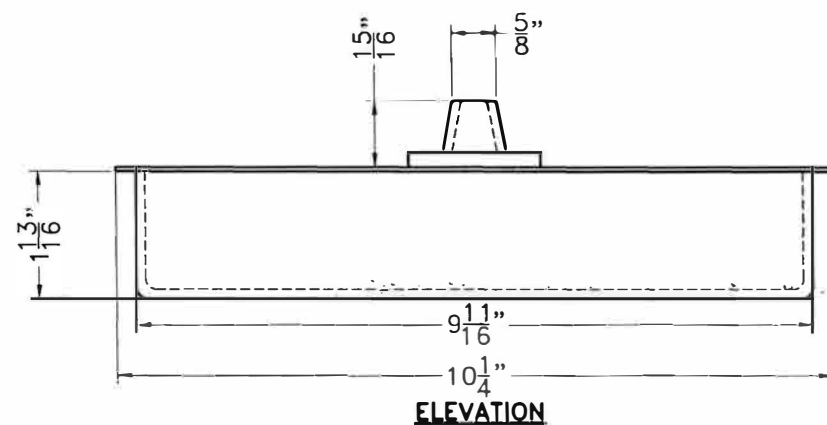
26-008

DRAWING No.

SHEET 3 OF 12



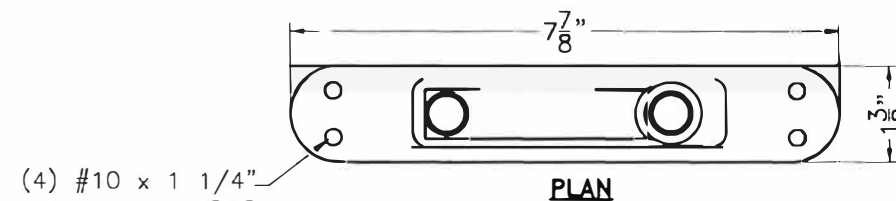
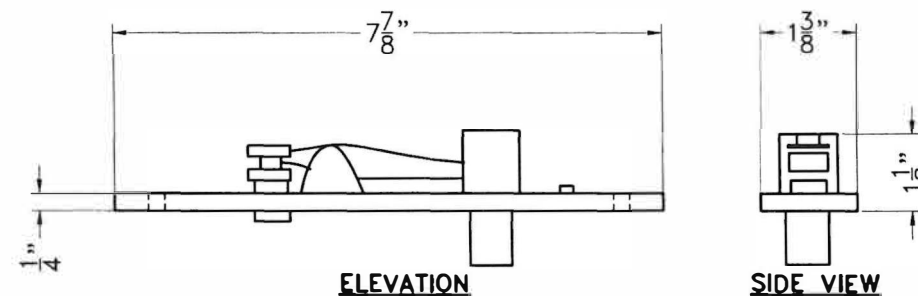
23A PIVOT DEVICE @ BOTTOM RAIL
SCALE 3/4"=1"



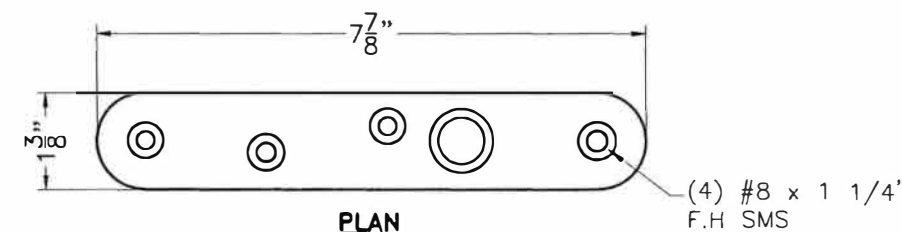
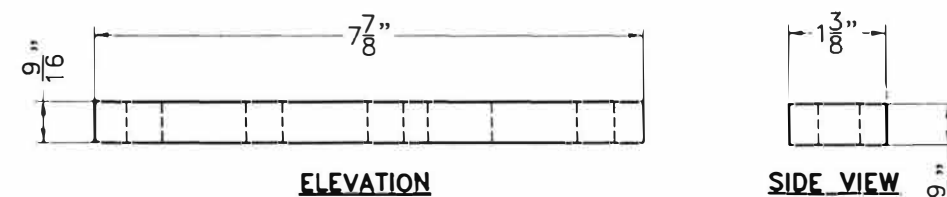
23B PIVOT DEVICE @ SILL
SCALE 3/4"=1"

23 MODEL JK.05.500 PIVOT SYSTEM

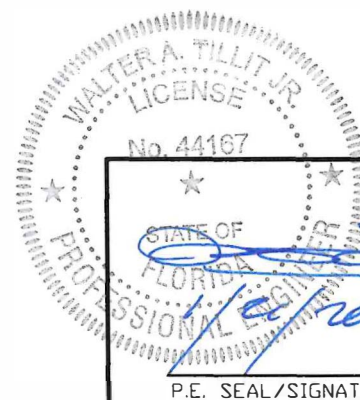
COMPONENTS CONT'D.
SCALE 3/8"=1"



23C PIVOT DEVICE @ HEADER
SCALE 3/4"=1"



23D PIVOT DEVICE @ TOP RAIL
SCALE 3/4"=1"



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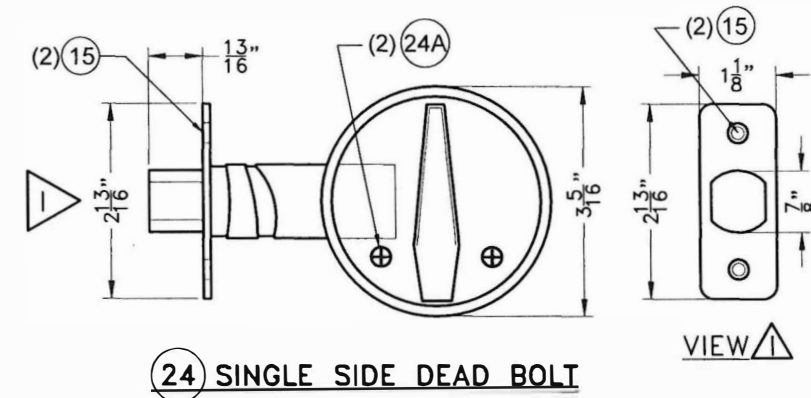
TILLIT TESTING & ENGINEERING COMPANY
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SHEET 4 OF 12



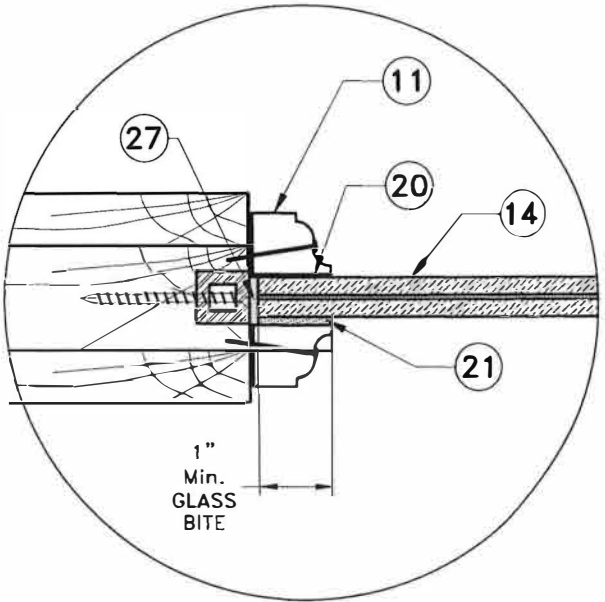
SCALE $3/8"=1"$

SHEET 5 OF 12

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BILL OF MATERIALS

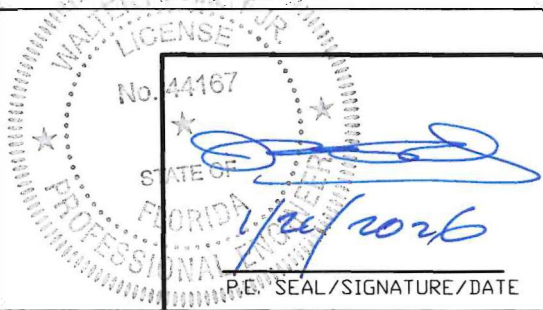
COMPONENT #	DESCRIPTION	MATERIAL	MANUFACTURER	NOTES
①	FRAME HEAD / LOCK JAMB @ GLASS DOOR	MAHOGANY WOOD	-	G=0.45 MIN.
②	FRAME HEAD / LOCK JAMB @ GLASS DOOR	MAHOGANY WOOD	-	G=0.45 MIN.
③	PIVOT SIDE JAMB	MAHOGANY WOOD	-	G=0.45 MIN.
④	PANEL STOP	MAHOGANY WOOD	-	G=0.45 MIN.
⑤	FRAME SILL	MAHOGANY WOOD	-	G=0.45 MIN. SEE GENERAL NOTE 3B/1 FOR REQUIRED FINISHED SIZE.
⑥	PANEL STOP @ FRAME SILL @ GLASS DOOR	MAHOGANY WOOD	-	G=0.45 MIN. W/ ⑮ , FIRST @ 3", BALANCE @ 10"O.C.
⑦	PANEL STOP @ FRAME SILL @ WOOD DOOR	MAHOGANY WOOD	-	G=0.45 MIN. W/ ⑮ , FIRST @ 3", BALANCE @ 10"O.C.
⑧	TOP / BOTTOM RAIL & STILE REINFORCEMENT	MAHOGANY WOOD	-	G=0.45 MIN.
⑨	TOP / BOTTOM RAIL & STILE CORE	MAHOGANY WOOD	-	G=0.45 MIN.
⑩	CLADDING FOR WOOD DOOR (1/2" THK.)	MAHOGANY WOOD	-	G=0.45 MIN.
⑩A	CLADDING REINFORCEMENT	MAHOGANY WOOD	-	G=0.45 MIN.
⑪	GLAZING BEAD	MAHOGANY WOOD	-	W/ ⑮ FIRST @ 2", BALANCE @ 10"O.C.
⑫	STEEL REINFORCING TUBE @ SASH	ASTM A-36 GALV. STEEL	-	W/ ⑮ , FIRST @ 3", BALANCE @ 10"O.C. & WELDED TO TRANSVERSE ⑫ AT CORNERS.
⑬	MDF PANELS (3/4" THK.)	ENGINEERED WOOD	-	USED AS CORE ONLY AT WOOD PANEL DOOR
⑭	9/16" NOMINAL LAMINATED GLASS	GLASS	-	1/4" HEAT STRENGTHENED + 0.090" SGP INTERLAYER BY KURARAY + 1/4" HEAT STRENGTHENED
⑮	#10x1 3/4" F.H. WOOD SCREW	STAINLESS STEEL	-	SPACED 10"O.C.
⑮	16 GAGE x 1 1/2" FINISHING NAILS	STEEL	-	FIRST @ 2", BALANCE @ 10"O.C.
⑰	1/4"Ø ULTRACON ANCHORS	AISI 410 SERIES STAINLESS STEEL	ELCO CONSTRUCTION PRODUCTS	1 1/2"MIN. EMB. & 1"MIN. ED. INTO WOOD BUCK, 1 1/4"MIN. EMB. & 2 1/2" MIN. ED. INTO CONCRETE BLOCK & 1 3/4"MIN. EMB. & 2 1/2" MIN. ED. INTO POURED CONCRETE BEYOND ANY FINISH
⑰A	1/4"Ø-14 TEK SCREWS	AISI 410 S.S.	ITW BUILDEX	1" MINIMUM E.D & MUST EXTEND FROM METAL SUBSTRATE 3 THREADS. SEE SHEET 2.
⑱	Q-LON DOOR SEAL	-	SCHLEGEL	# QDS 650
⑱	Q-LON WEATHER SEAL	-	SCHLEGEL	# QEZD 320
⑳	SEALANT - CLEAR SILICONE	-	"GE" STOCK	# GE0112A SILICONE
㉑	GLAZING - CLEAR SILICONE	-	"DOW CORNING"	# 995 SILICONE
㉒	CORNER CONSTRUCTION GLUE	-	-	CHEMICAL BOND WW25
㉓	PIVOT SYSTEM/MODEL JK.05.500	STAINLESS STEEL	JNF	㉓A FASTENED W/ (4)#8 x 1 1/4" FH SMS ㉓B NO FASTENING REQ'D. ㉓C FASTENED W/ (4)#10 x 1 1/4" FH SMS ㉓D FASTENER W/ (4)#8 x 1 1/4" FH SMS
㉔	SINGLE SIDE DEAD BOLT	POLISHED BRASS	SCHLAGE	MODEL B580605 W/ (2) ⑮ @ OPERATOR & ㉔A @ STRIKE
㉔A	#8x1" F.H. WOOD SCREW	STAINLESS STEEL	-	
㉕	3 POINT LOCK	ALUMINUM/STEEL	MCM	SERIES 701, 3 LOCKING POINTS W/ MIN. 3/4" THROW, W/ (9)#6 x 1 1/4" FH SMS TO STILE
㉖	WEATHERSTRIP	ALUMINUM/RUBBER	TRADEMARK HARDWARE	#6 x 1/2" @ 10"O.C TO SILL ⑤. MODEL SKU Z53-DB
㉗	SETTING BLOCK	-	-	SHALL COMPLY W/ SECTION 2411.3.3.1 OF THE FLORIDA BUILDING CODE



GLAZING DETAIL

SCALE 3/8"=1"

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



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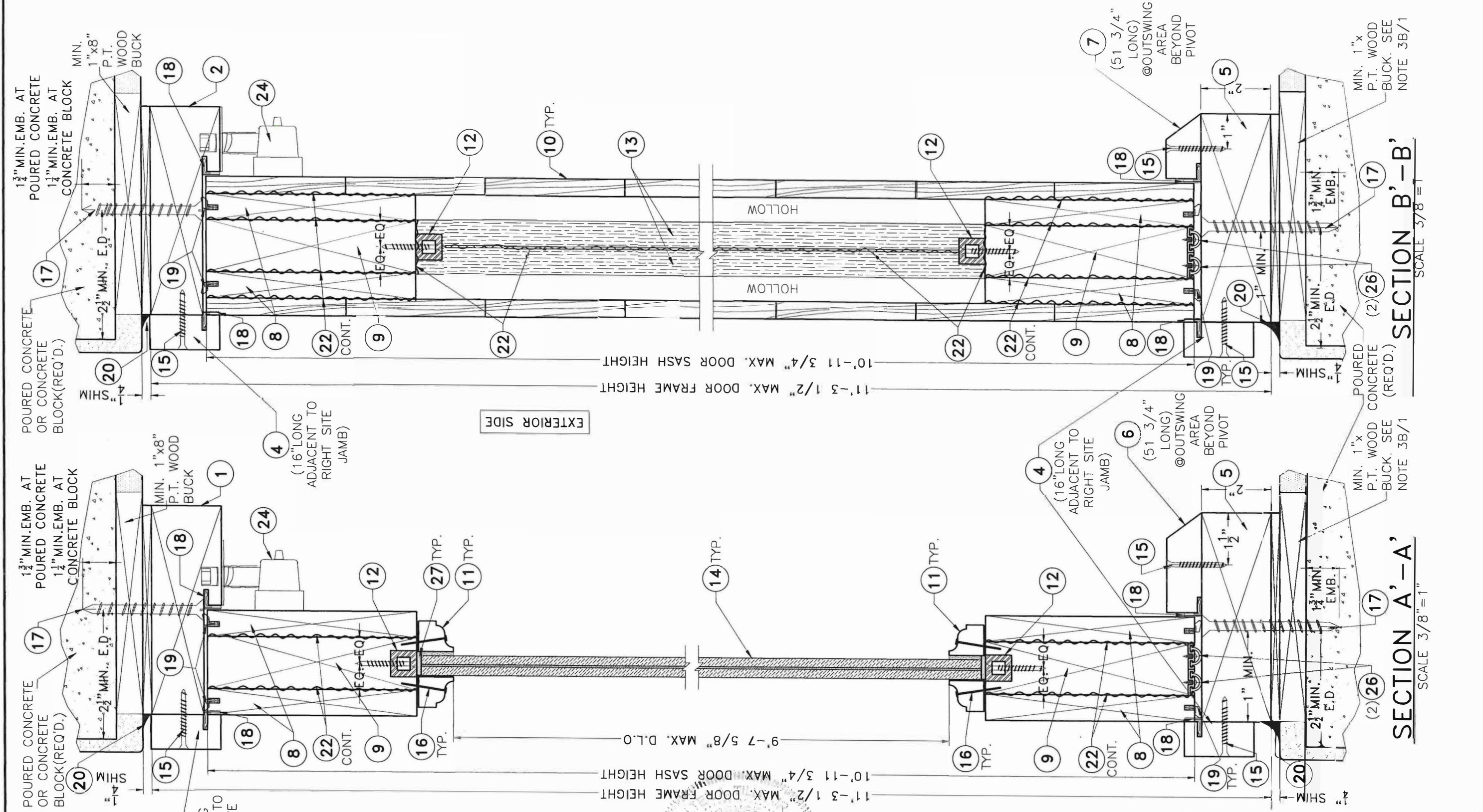
REV. NO	DESCRIPTION	DATE
1	OLD 20-290	10/11/23
2	OLD 23-235 / DRAINAGE	1/19/26

C.R.
DRAWN BY:

10/11/2023
DATE:

26-008
DRAWING No.

SHEET 6 OF 12



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

STAMP: PROFESSIONAL ENGINEER, FLORIDA, No. 44167

WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

PIE SEAL/SIGNATURE/DATE

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TILTECO INC.

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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 Fax : (305) 871-1531
CA-0006719

SINGLE PANEL SOLID/GLAZED WOOD PIVOT DOOR (LARGE MISSILE IMPACT RESISTANT)

IMPACT PRECIOUS WOOD, INC.
6333 NW 74 AVE.,
MIAMI, FL 33166
PH: (786) 222-0427, FAX: (305) 428-3011

REV. NO	DESCRIPTION	DATE
1	OLD 20-290	10/11/23
2	OLD 23-235 / DRAINAGE	1/19/26

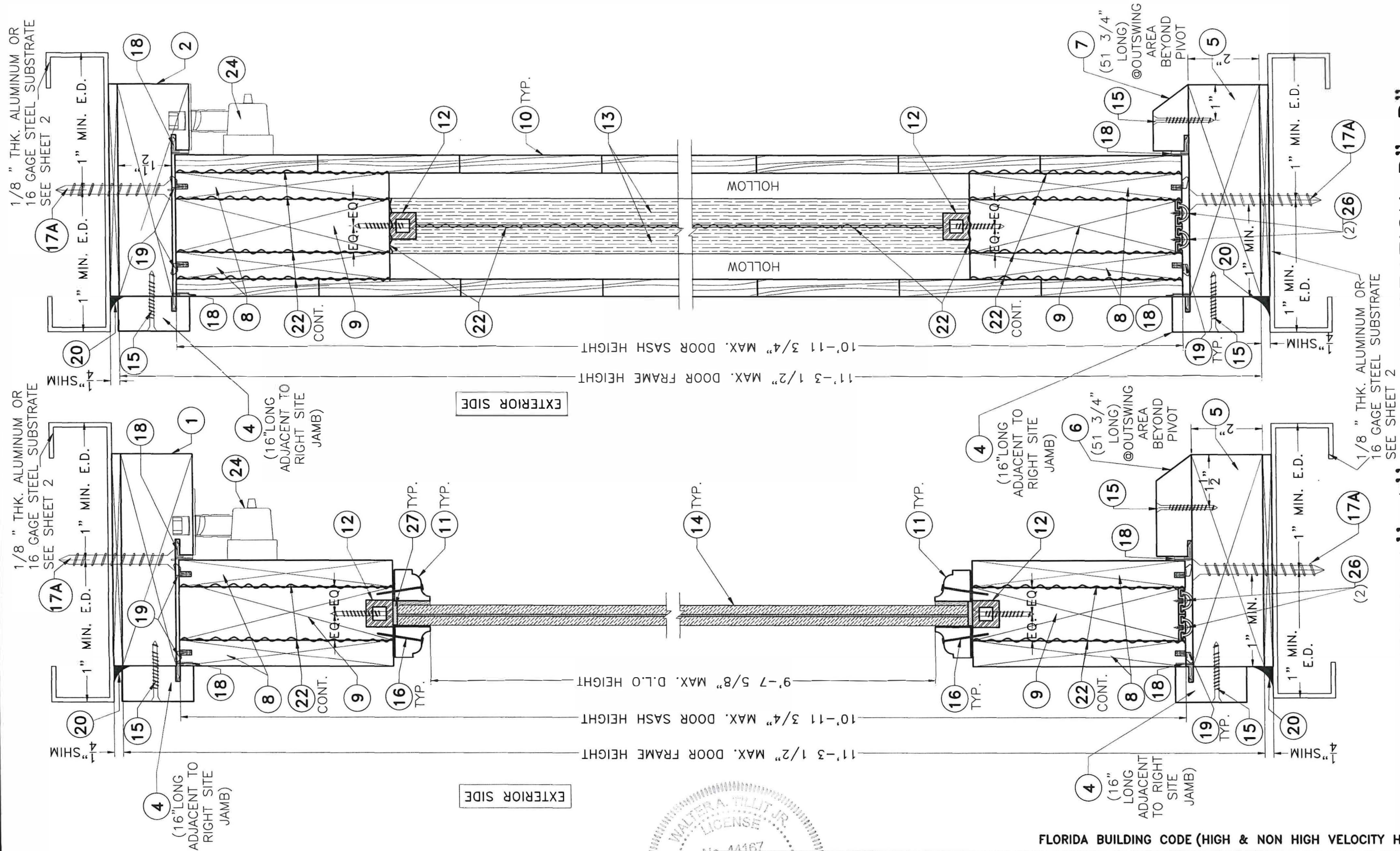
C.R. DRAWN BY:

10/11/2023 DATE:

26-008

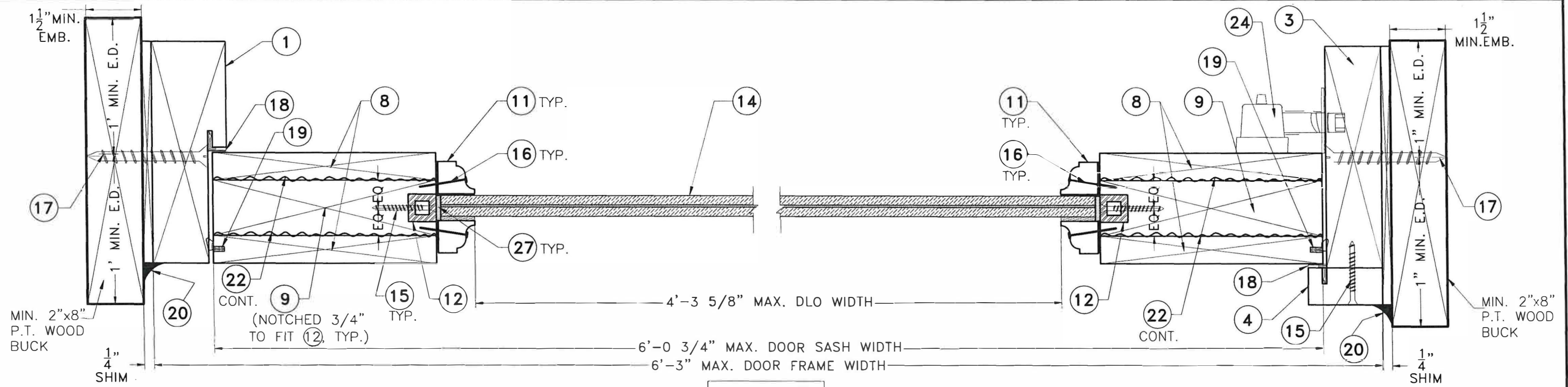
DRAWING No.

SHEET 7A OF 12

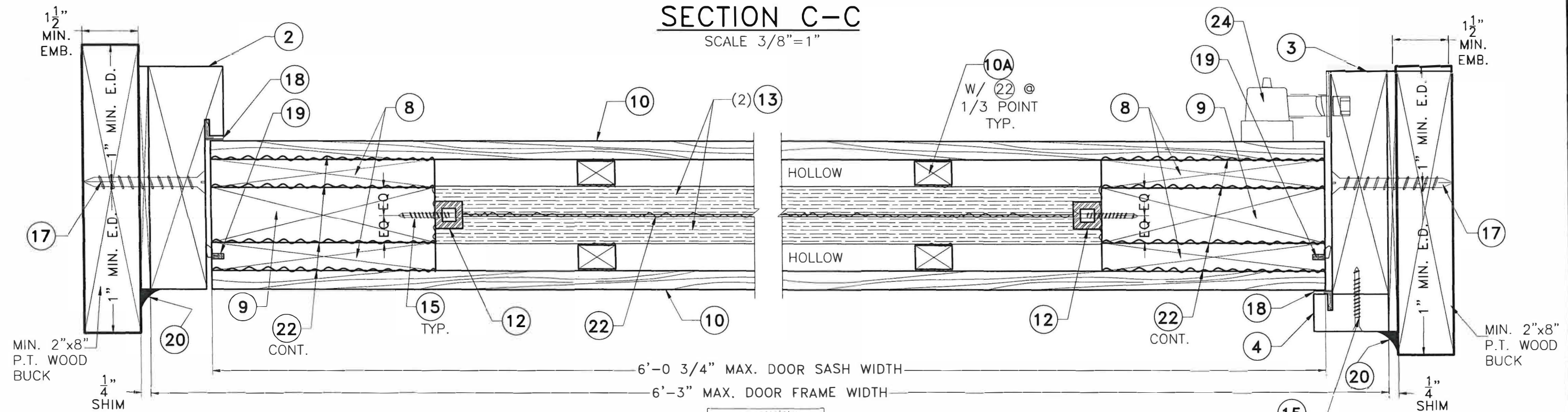


P.E. SEAL/SIGNATURE/DATE

SECTION A – A



SECTION C-C
SCALE 3/8"=1"



SECTION D-D
SCALE 3/8"=1"

EXTERIOR SIDE

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

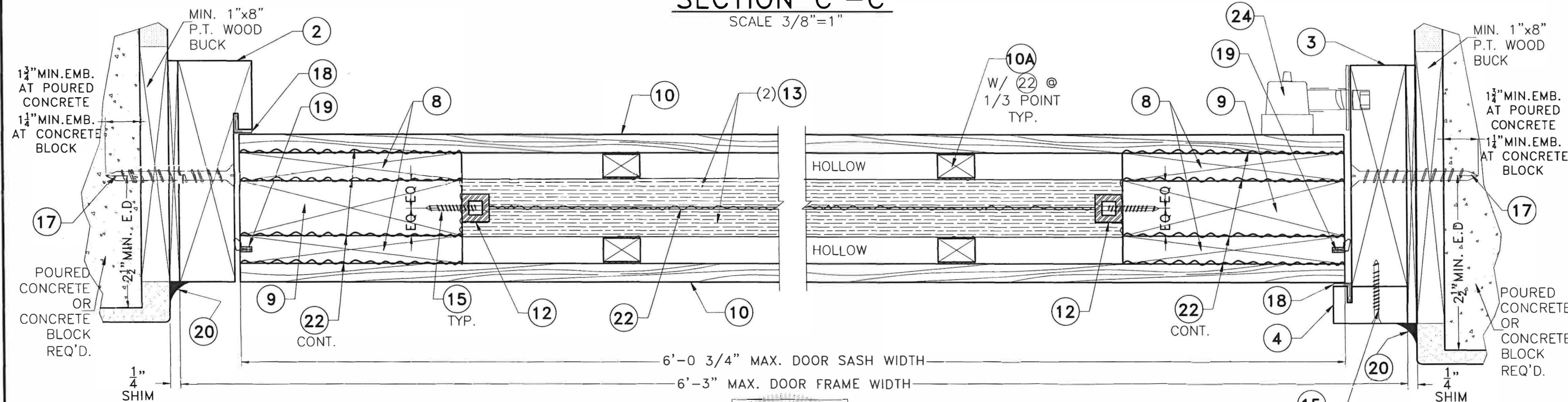
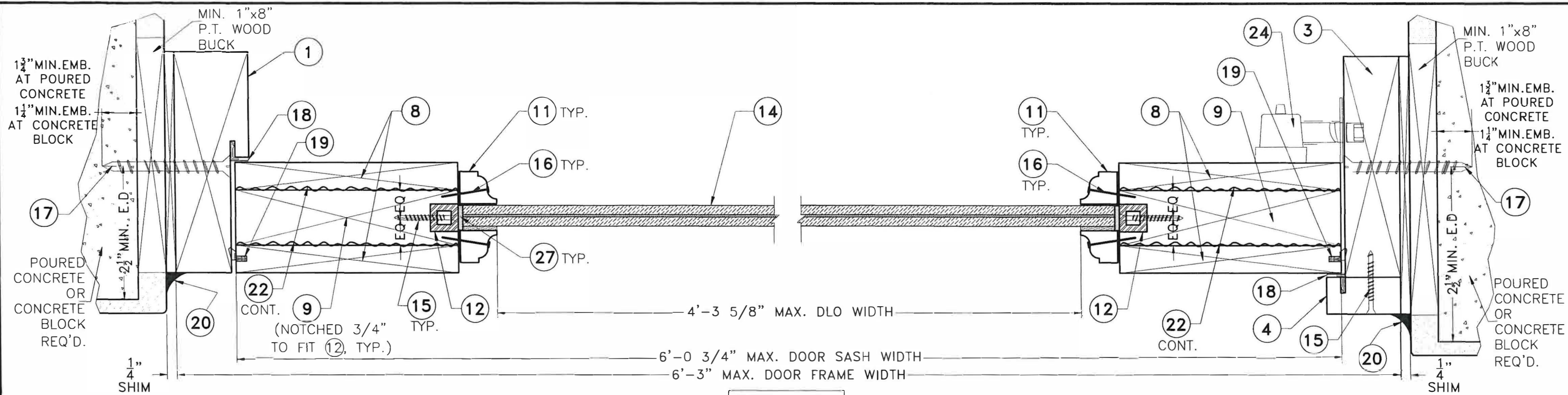
Professional Engineer Seal/Signature/Date
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

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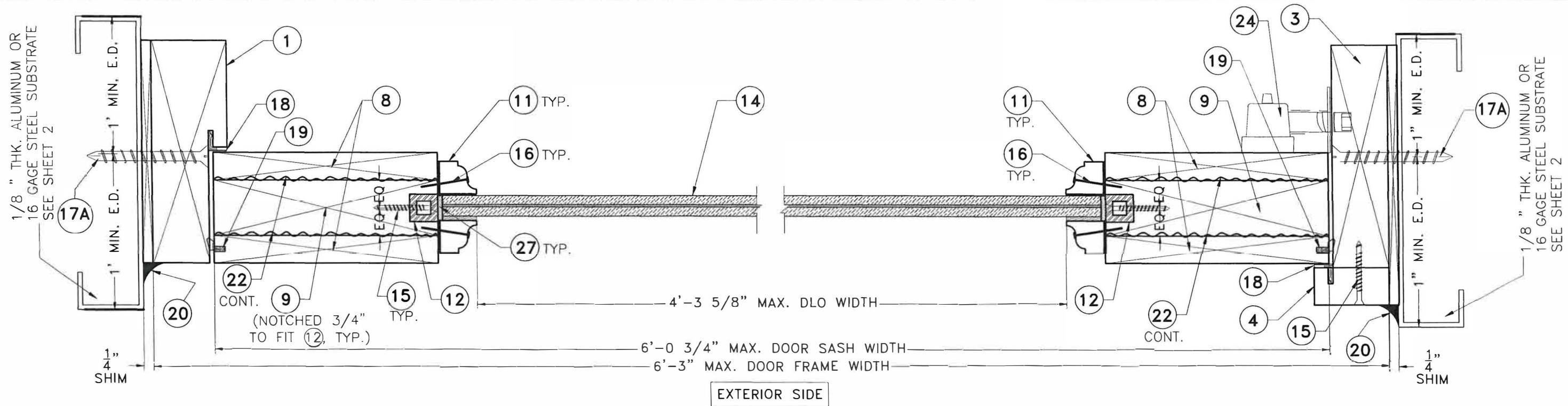
C.R.
DRAWN BY:
10/11/2023
DATE:
26-008
DRAWING No.
SHEET 8 OF 12



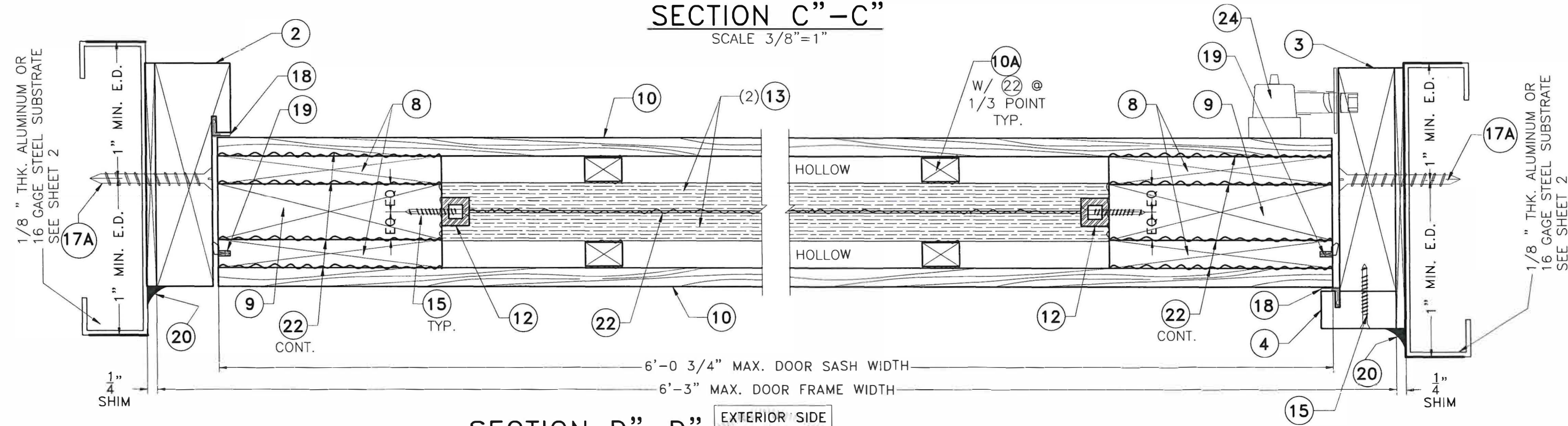
SECTION D'-D' EXTERIOR SIDE
SCALE 3/8"=1"

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

P.E. SEAL/SIGNATURE/DATE	©2026 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 355 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	SINGLE PANEL SOLID/GLAZED WOOD PIVOT DOOR (LARGE MISSILE IMPACT RESISTANT)		C.R. DRAWN BY:														
		IMPACT PRECIOUS WOOD, INC. 6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011		10/11/2023 DATE:														
		<table><tr><th>REV. NO</th><th>DESCRIPTION</th><th>DATE</th><th></th><th></th></tr><tr><td>1</td><td>OLD 20-290</td><td>10/11/23</td><td></td><td></td></tr><tr><td>2</td><td>OLD 23-235 / DRAINAGE</td><td>1/19/26</td><td></td><td></td></tr></table>		REV. NO	DESCRIPTION	DATE			1	OLD 20-290	10/11/23			2	OLD 23-235 / DRAINAGE	1/19/26		
REV. NO	DESCRIPTION	DATE																
1	OLD 20-290	10/11/23																
2	OLD 23-235 / DRAINAGE	1/19/26																
SHEET 8A OF 12																		



SECTION C-C
SCALE 3/8"=1"



SECTION D-D
SCALE 3/8"=1"

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

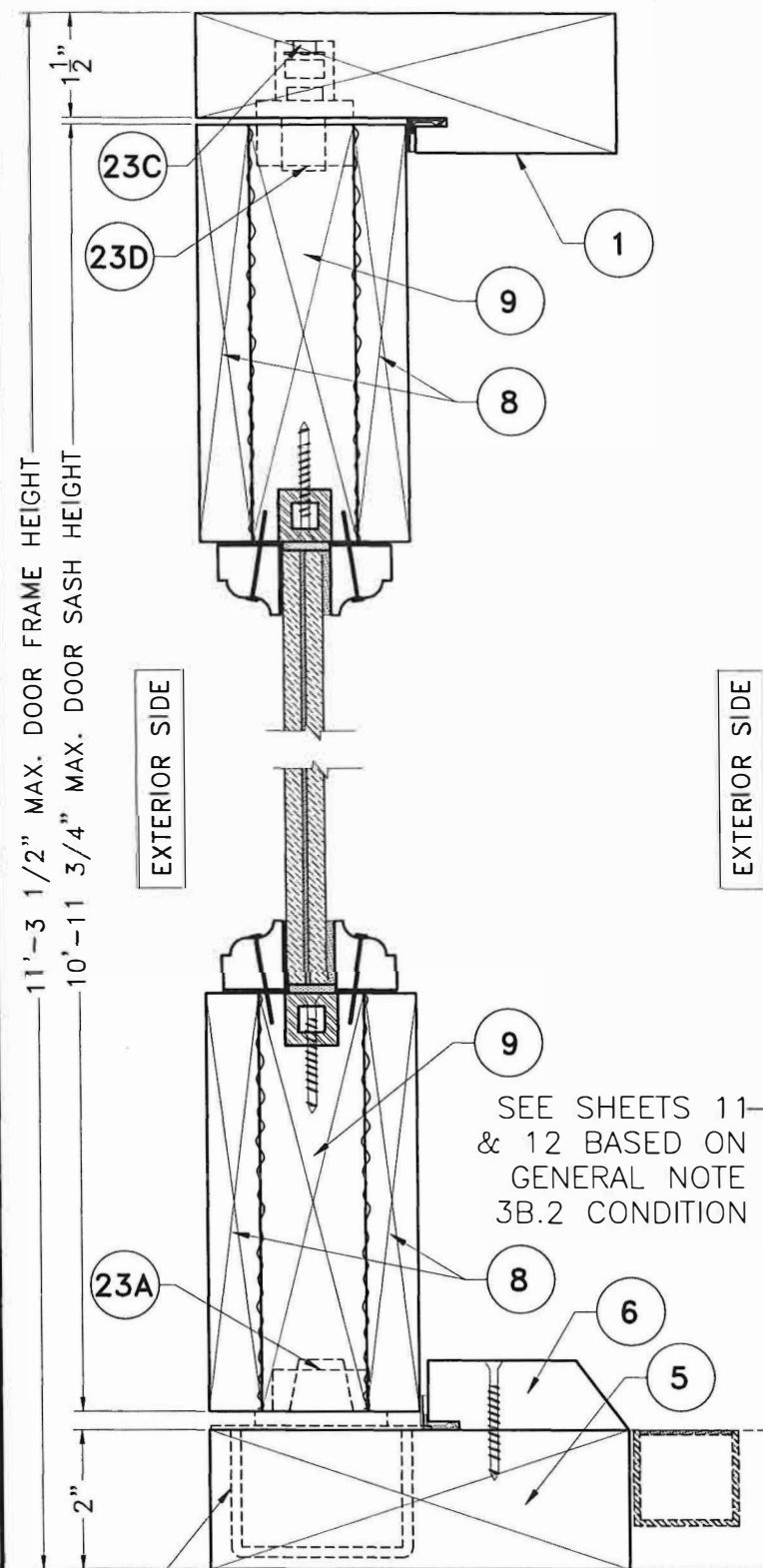
STATE OF FLORIDA
Professional Seal/Signature/Date
P.E. SEAL/SIGNATURE/DATE

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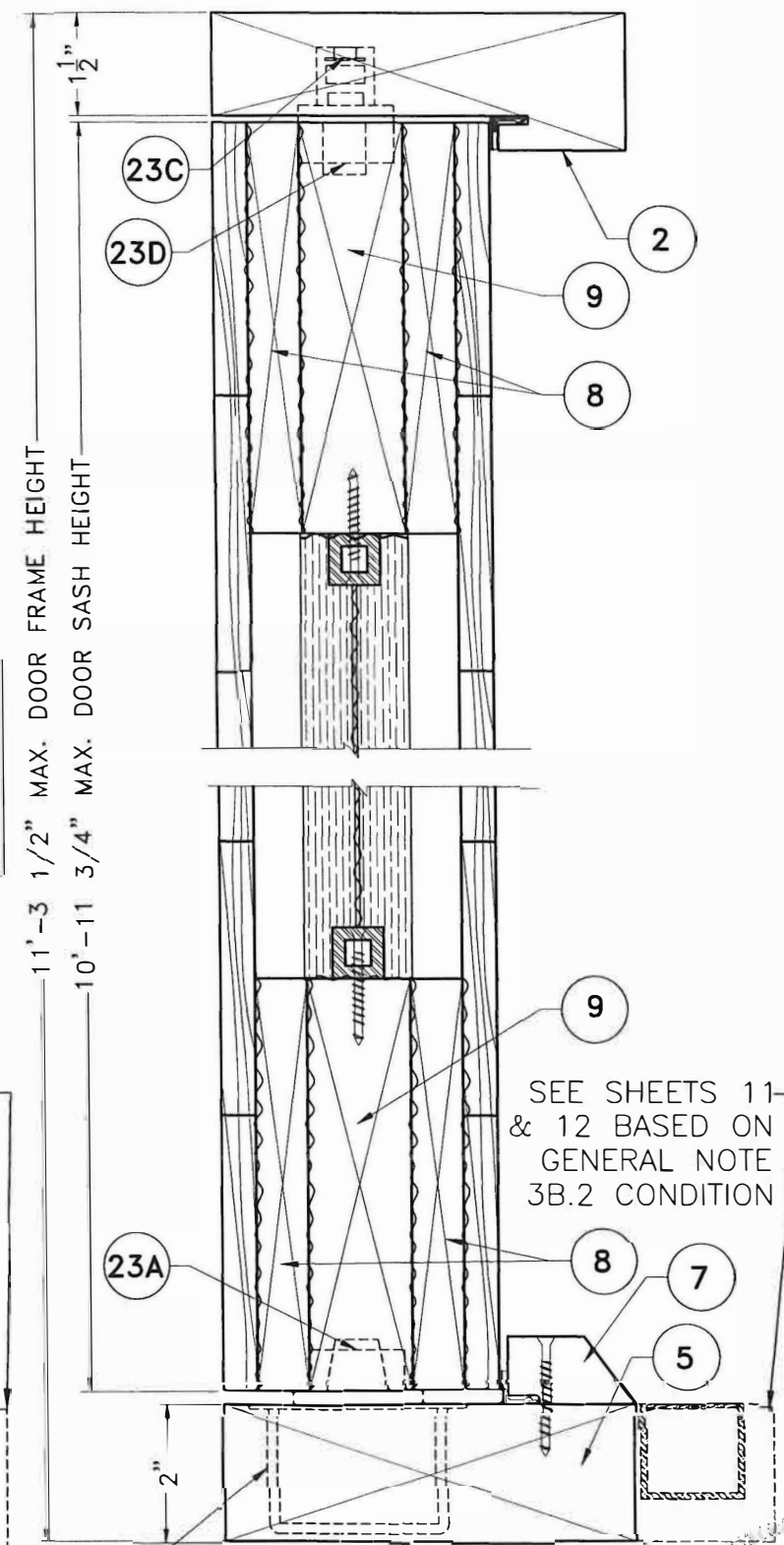
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DATE:
26-008
DRAWING No.
SHEET 8B OF 12



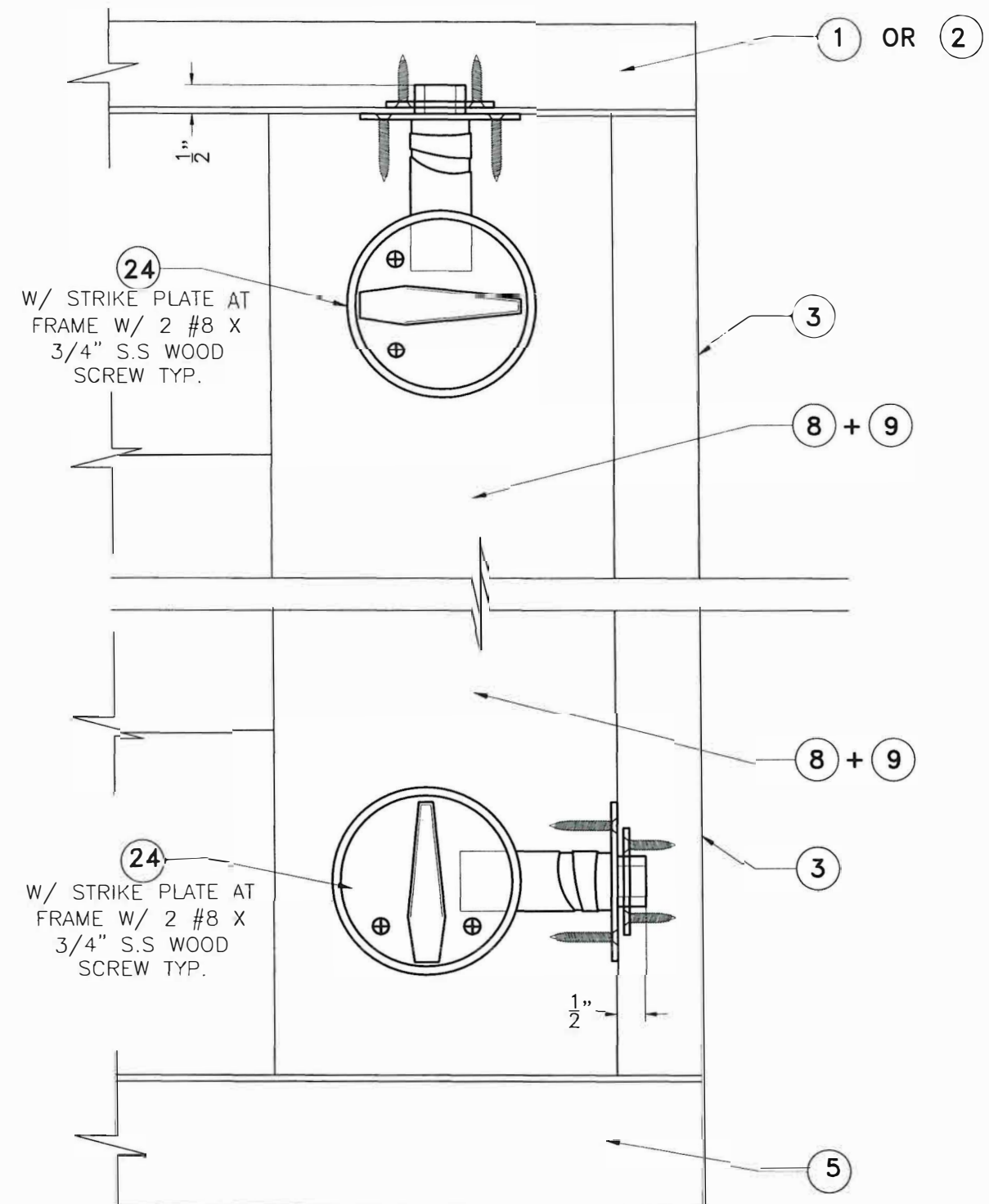
23B SECTION E-E @ PIVOT SYSTEM
(GLASS DOOR): CONDITION FOR GENERAL NOTE 3B.1 IS SHOWN.

SCALE 3/8"=1"



23B SECTION F-F @ PIVOT SYSTEM
(WOOD DOOR): CONDITION FOR GENERAL NOTE 3B.1 IS SHOWN.

SCALE 3/8"=1"



TYPICAL ELEVATION @
SINGLE SIDE DEAD BOLT

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

WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE
1/24/2023
No. 44167
STATE OF FLORIDA

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SHEET 9 OF 12

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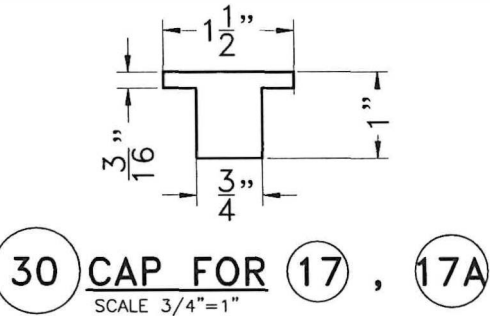
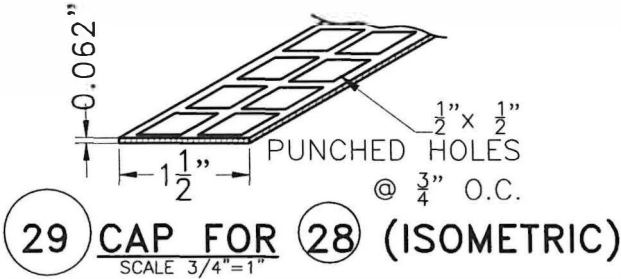
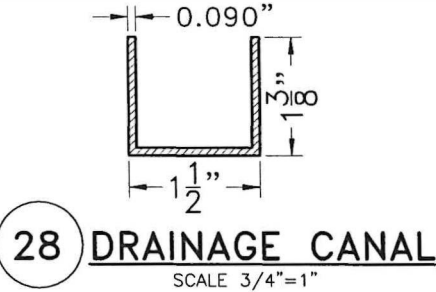
26-008

DRAWING No.

SHEET 10 OF 12

BILL OF MATERIALS *				
COMPONENT #	DESCRIPTION	MATERIAL	MANUFACTURER	NOTES
(28)	DRAINAGE CANAL	6063-T5 ALLOY	-	CONTINUOUS @ (5) SILICONED W/ (20) ALL AROUND TO (5)
(29)	CAP FOR (28)	6063-T5 ALLOY	-	CONTINUOUS @ (28) SILICONED W/ (20) TO TOP OF (28)
(30)	CAP FOR (17), (17A)	MAHOGANY WOOD	-	CONTINUOUS @ (5) TIGHT FIT INTO (5)

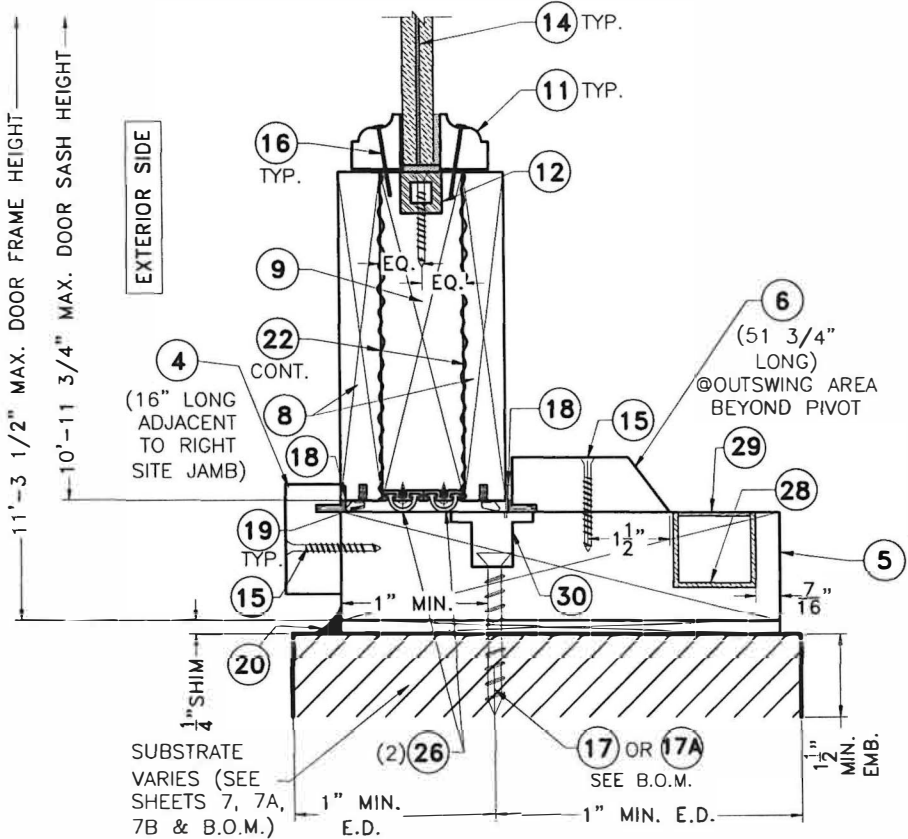
* SEE SHEET 6 FOR ADDITIONAL COMPONENTS OF DOOR.



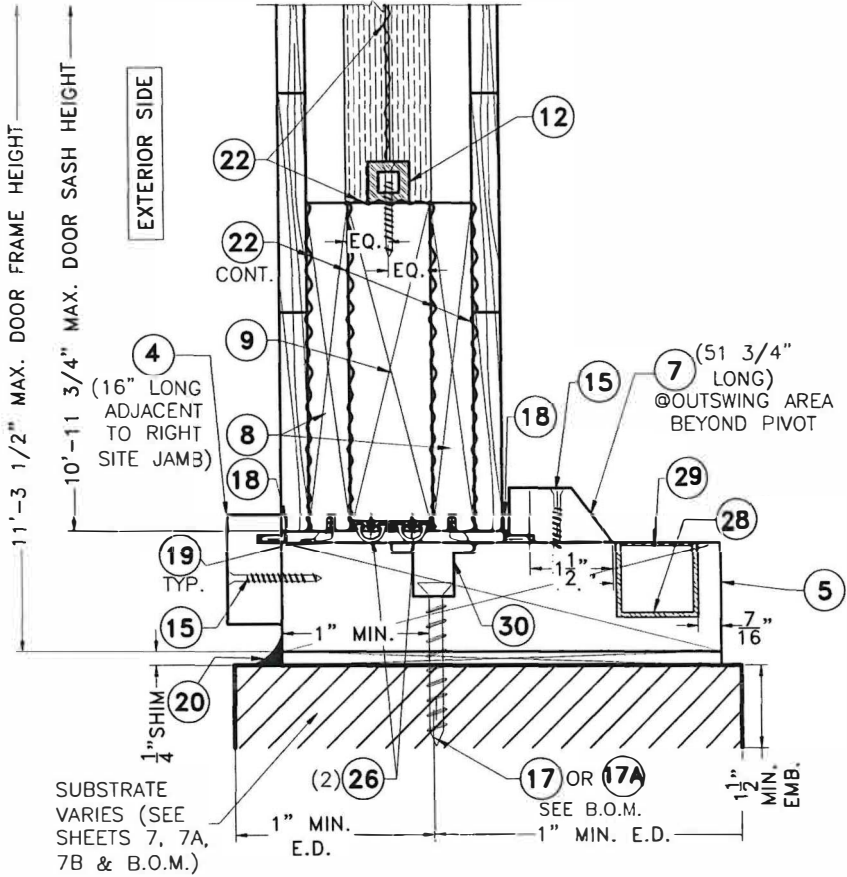
PROVISIONS FOR WATER INFILTRATION
RESISTANCE BASED ON CONDITION
PER GENERAL NOTE 3B.2 *

* SEE DETAIL "D" ON SHEET 12

FOR HEAD SEE SECTIONS
ON SHEETS 7, 7A, 7B.



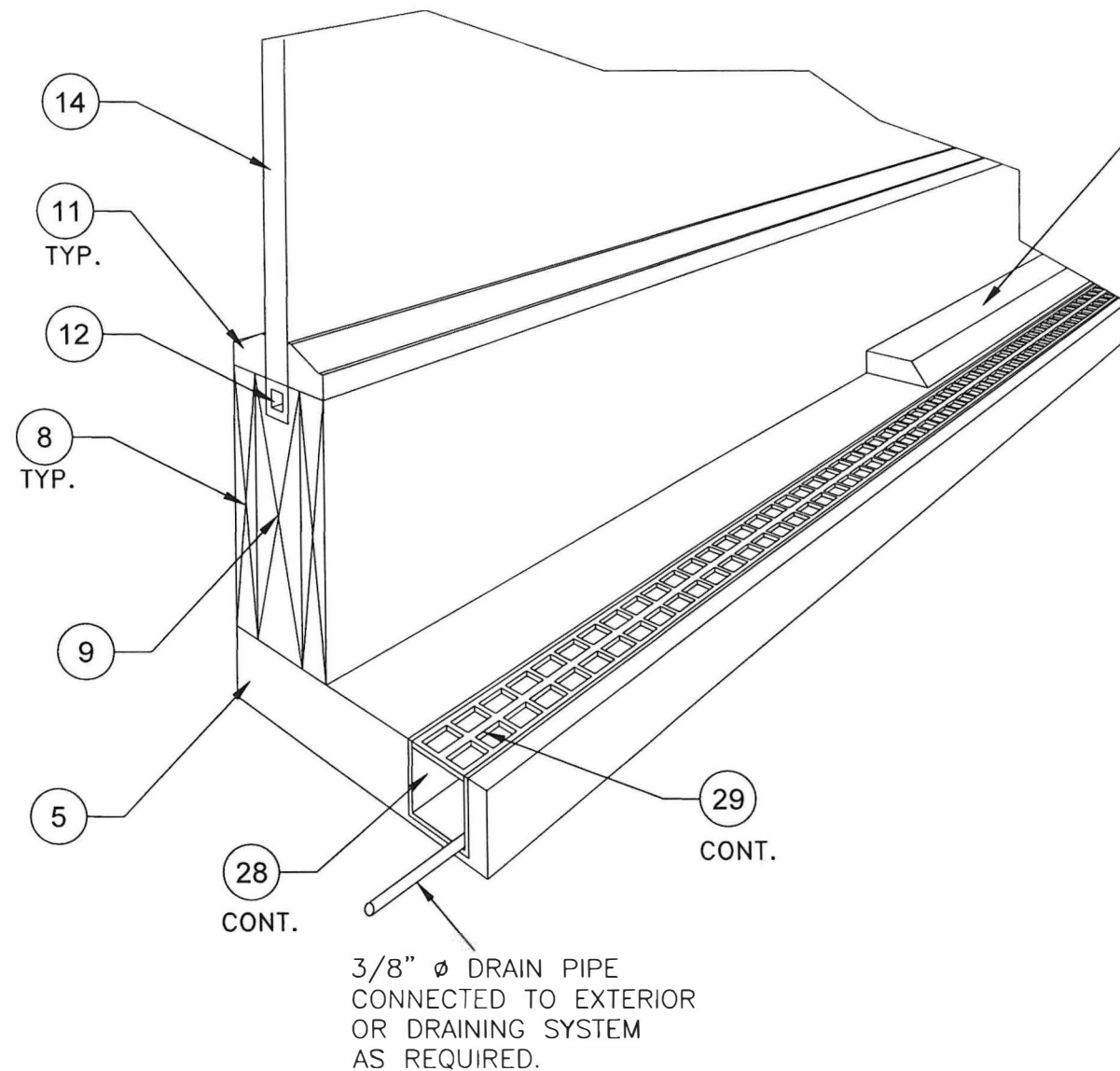
FOR HEAD SEE SECTIONS
ON SHEETS 7, 7A, 7B.



WALTER A. TILLIT JR.
LICENSE
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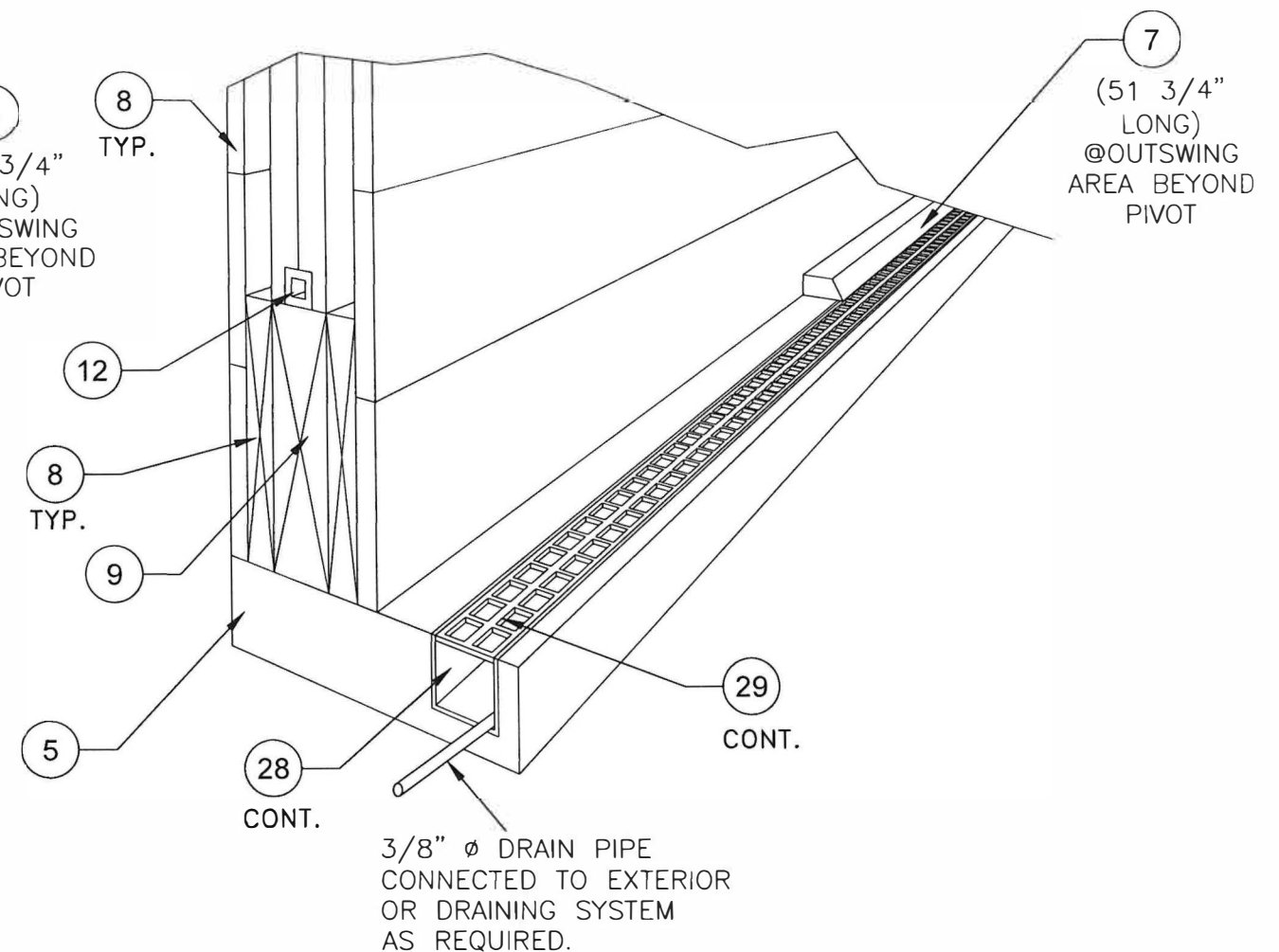
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6333 NW 74 AVE., MIAMI, FL 33166 PH: (786) 222-0427, FAX: (305) 428-3011			26-008 DRAWING No.
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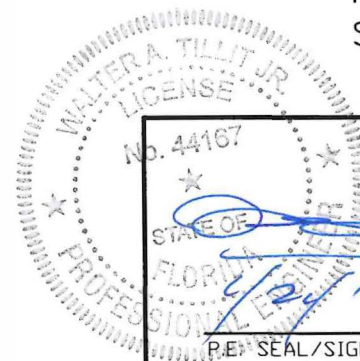
DETAIL "D"
OPTIONAL WATER
INFILTRATION THRESHOLD:
@ GLAZED WOOD DOOR

(INSTALLED WHERE WATER INFILTRATION IS
 REQUIRED AS AN OPTION TO EXISTING OVERHANG;
 SEE NOTE 3B.2).



DETAIL "D"
OPTIONAL WATER
INFILTRATION THRESHOLD:
@ SOLID WOOD DOOR

(INSTALLED WHERE WATER INFILTRATION IS
 REQUIRED AS AN OPTION TO EXISTING OVERHANG;
 SEE NOTE 3B.2).



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

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