

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 2017 (6th 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 7-10 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 7-10 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 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 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 ONLY 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.

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 1709.9.3 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

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.

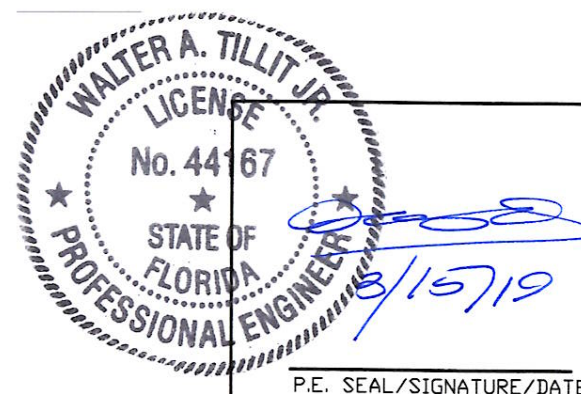
(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(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)

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

**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

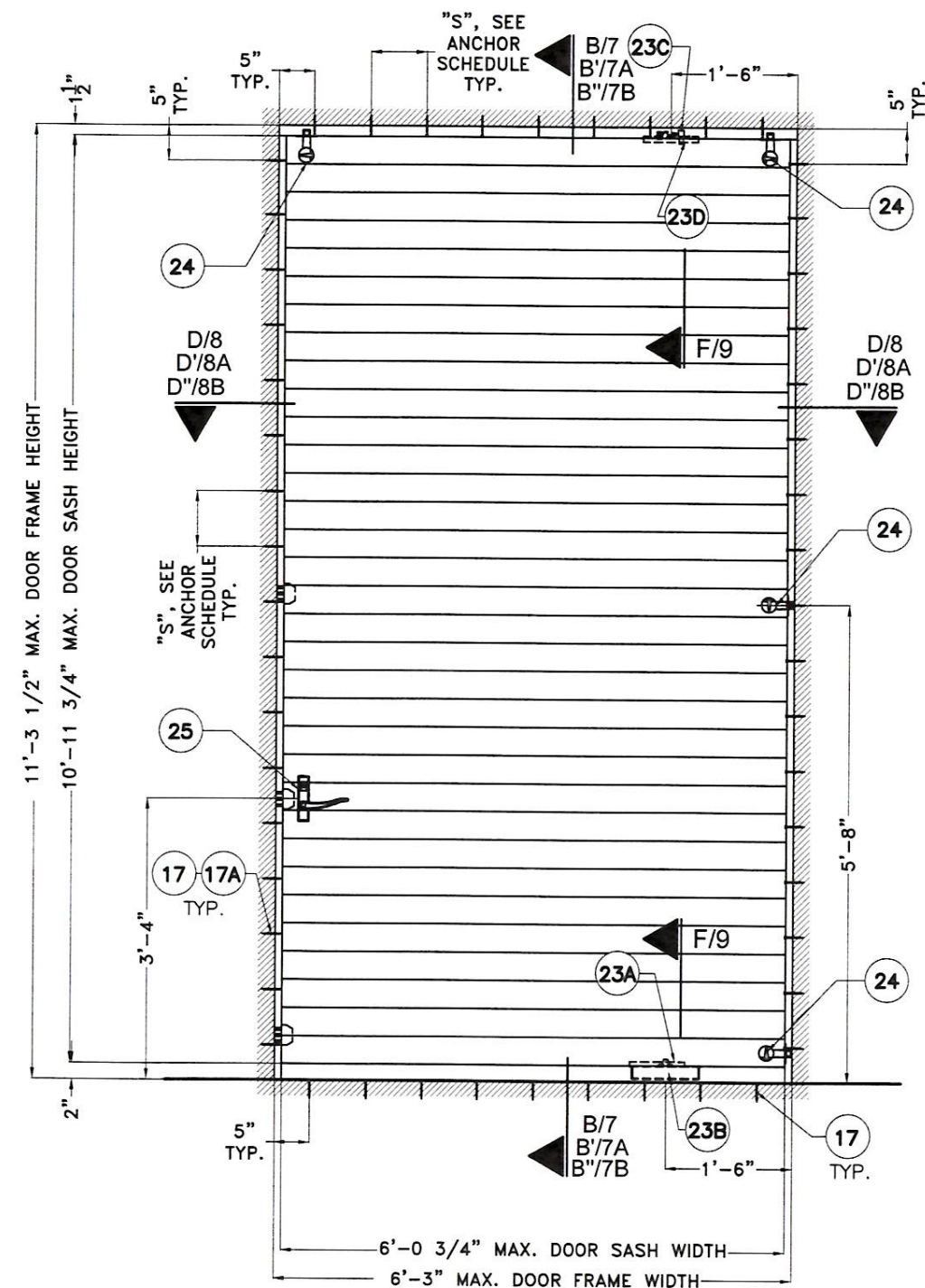
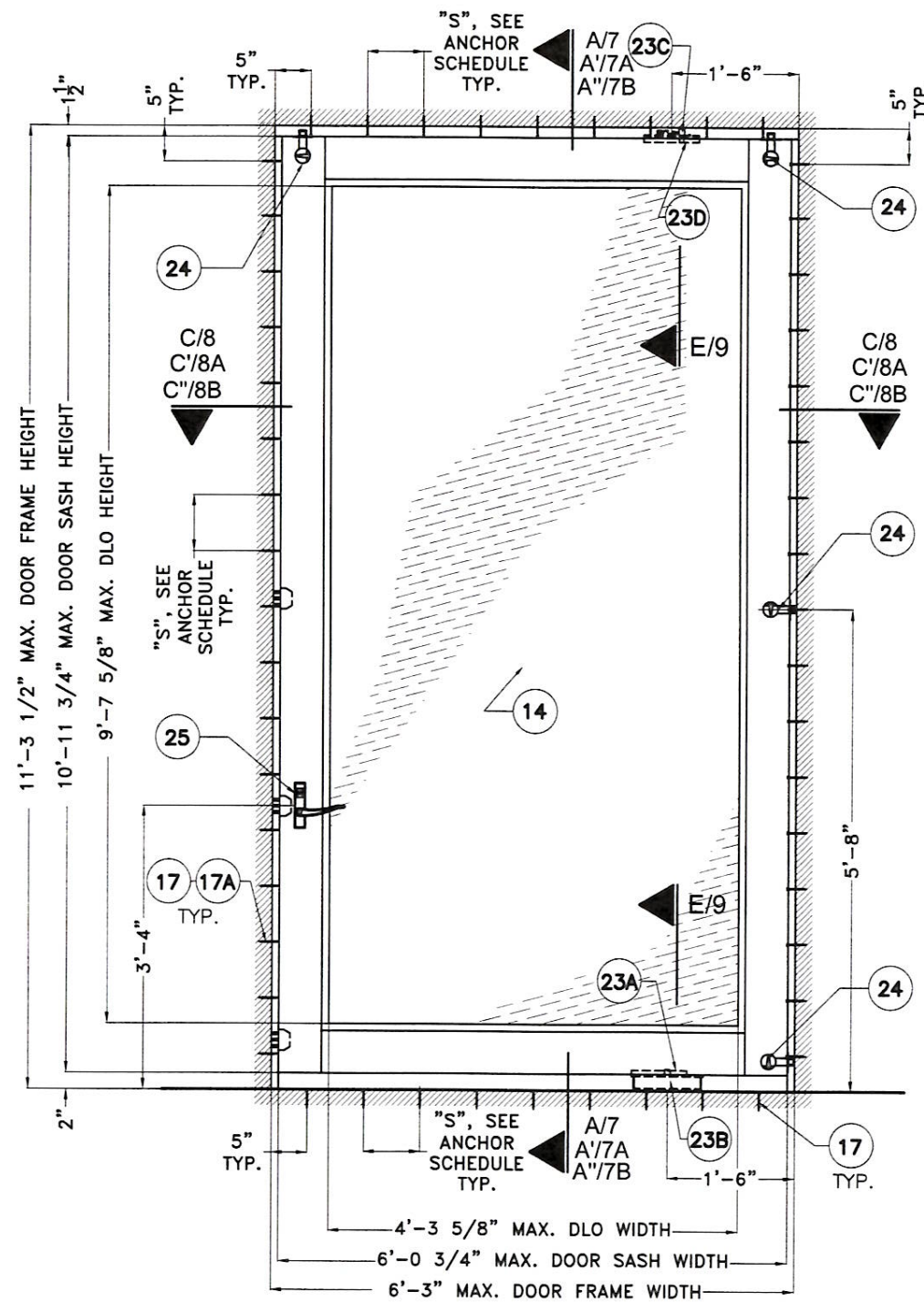
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06/28/18
DATE:

17-047

DRAWING No.

SHEET 1 OF 10



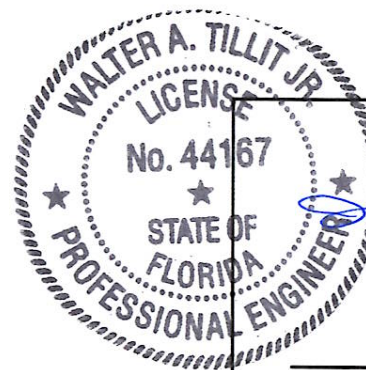
TYPICAL EXTERIOR ELEVATION
(GLAZED WOOD DOOR)

SCALE 1/2"=1'-0"

TYPICAL EXTERIOR ELEVATION
(SOLID WOOD DOOR)

SCALE 1/2"=1'-0"

SCHEDULE FOR MAX. SPACING FOR ANCHOR ⑪ AND ⑪A 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 $F_y = 16$ ksi $\frac{1}{8}$ " THK	STEEL $F_y = 33$ ksi 16 gage
±66.0	8" O.C @ ⑪	6 1/2" O.C @ ⑪	6 1/2" O.C @ ⑪A	



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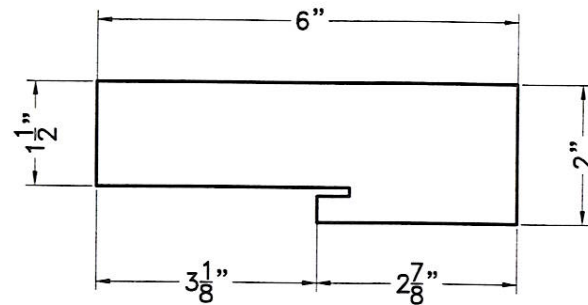
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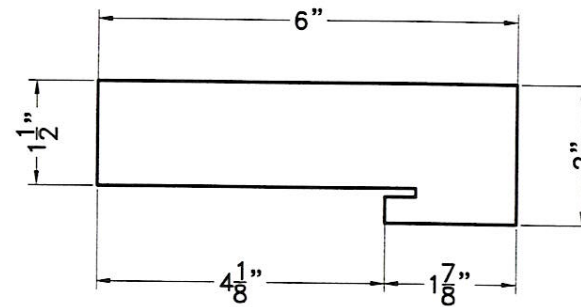
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2			4		

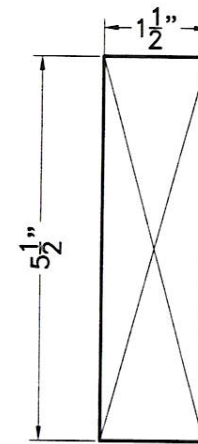
SHEET 2 OF 10



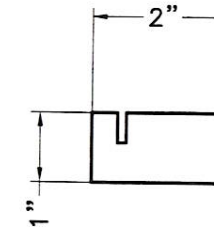
① FRAME HEAD/LOCK JAMB • GLASS DOOR



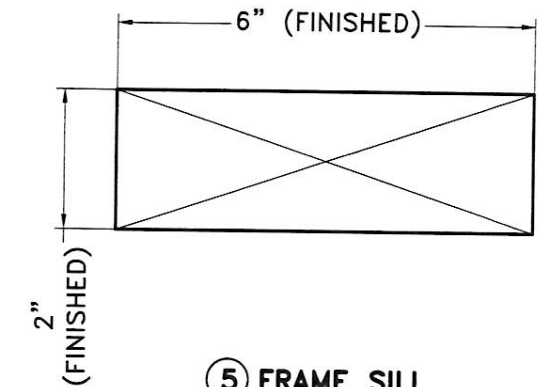
② FRAME HEAD/LOCK JAMB • WOOD DOOR



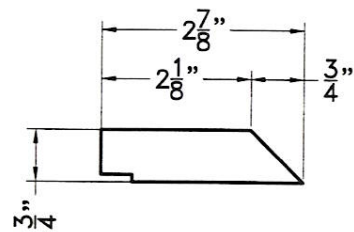
③ PIVOT SIDE JAMB (2"x6" NOMINAL)



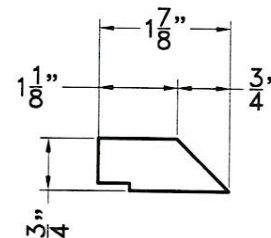
④ PANEL STOP



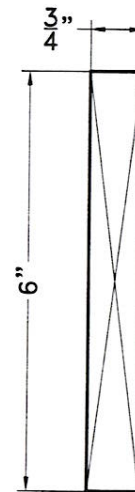
⑤ FRAME SILL



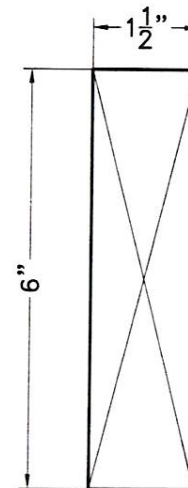
⑥ PANEL STOP • FRAME SILL • GLASS DOOR



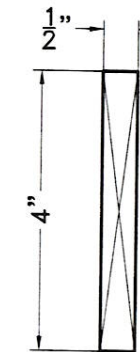
⑦ PANEL STOP • FRAME SILL • WOOD DOOR



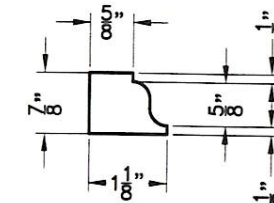
⑧ TOP/BOTTOM RAIL & STILE REINFORCEMENT



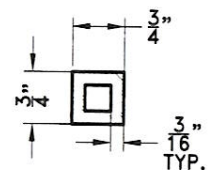
⑨ TOP/BOTTOM RAIL & STILE CORE



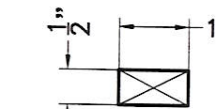
⑩ CLADDING FOR WOOD DOOR



⑪ GLAZING BEAD



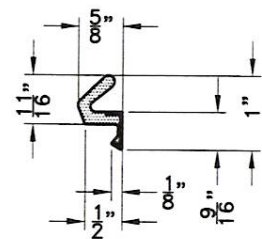
⑫ STEEL REINFORCING TUBE • SASH



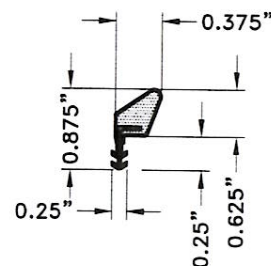
⑩A CLADDING REINFORCEMENT

COMPONENTS

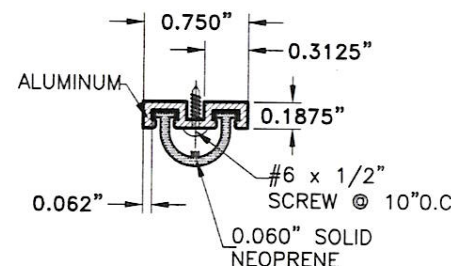
SCALE 3/8"=1"



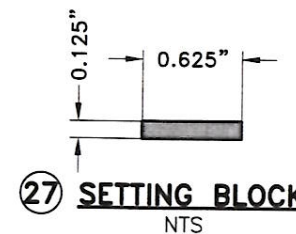
⑬ Q-LON DOOR SEAL NTS



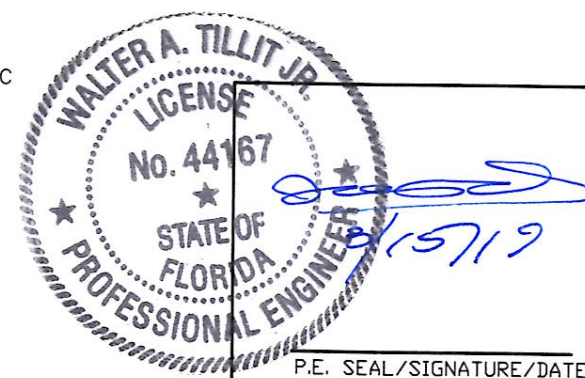
⑭ Q-LON WEATHER SEAL NTS



⑮ WEATHERSTRIP NTS



⑯ SETTING BLOCK NTS



P.E. SEAL/SIGNATURE/DATE

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REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
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2			4		

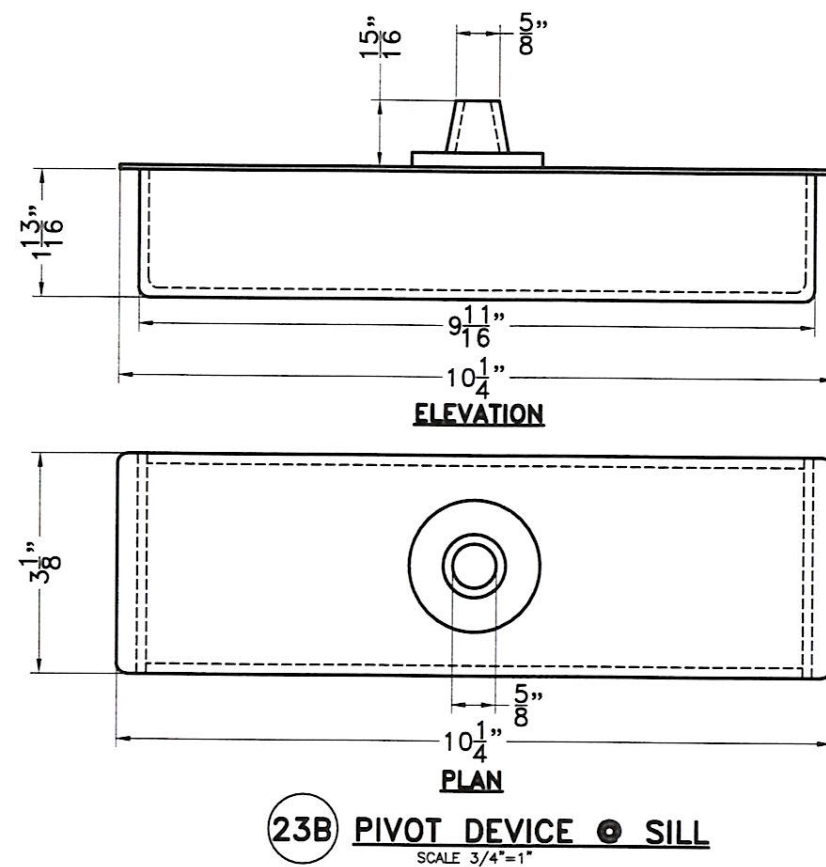
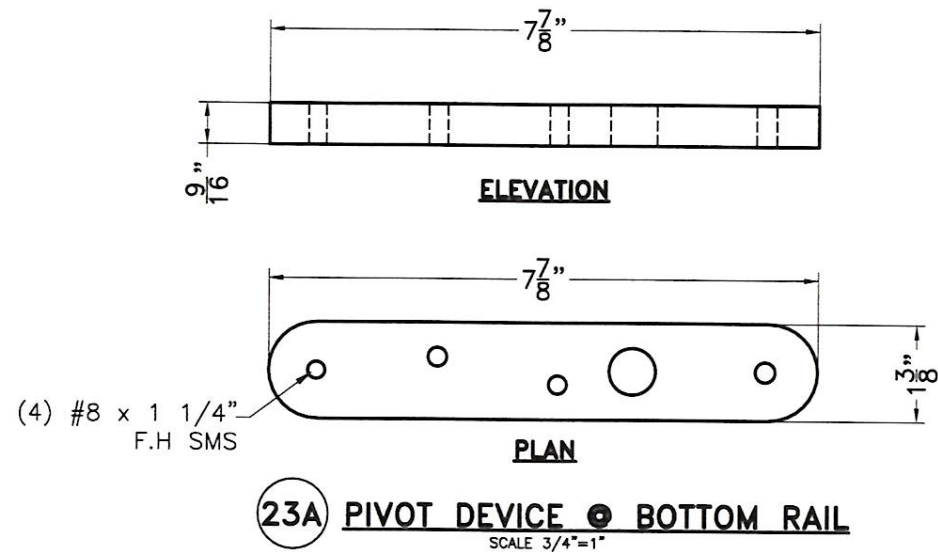
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06/28/18 DATE:

17-047

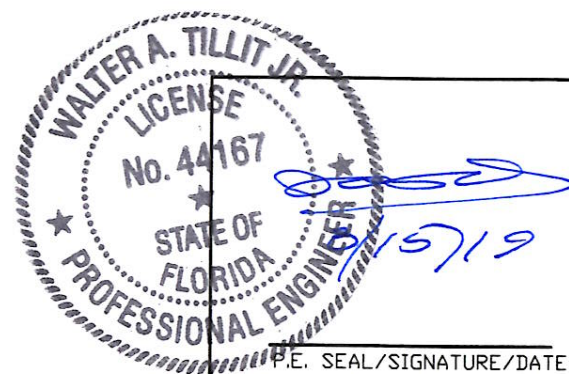
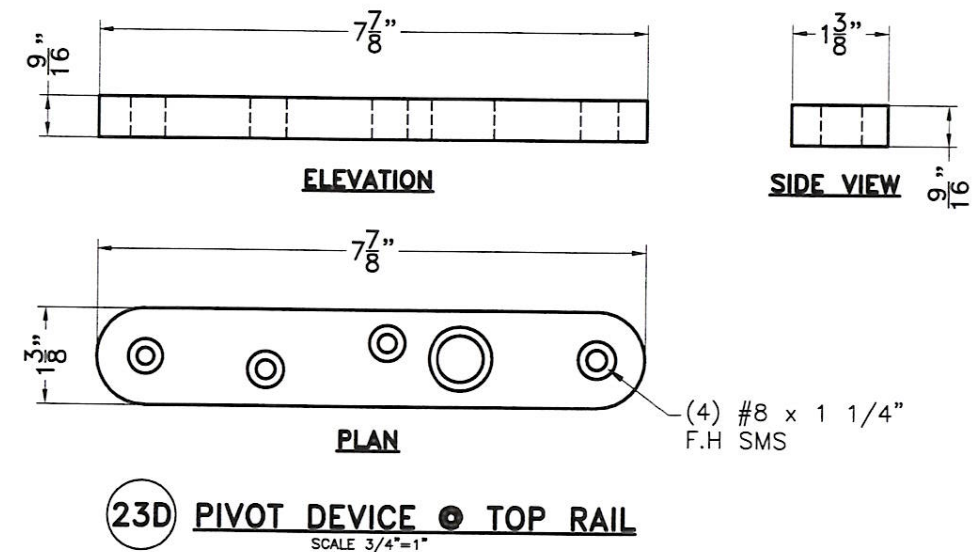
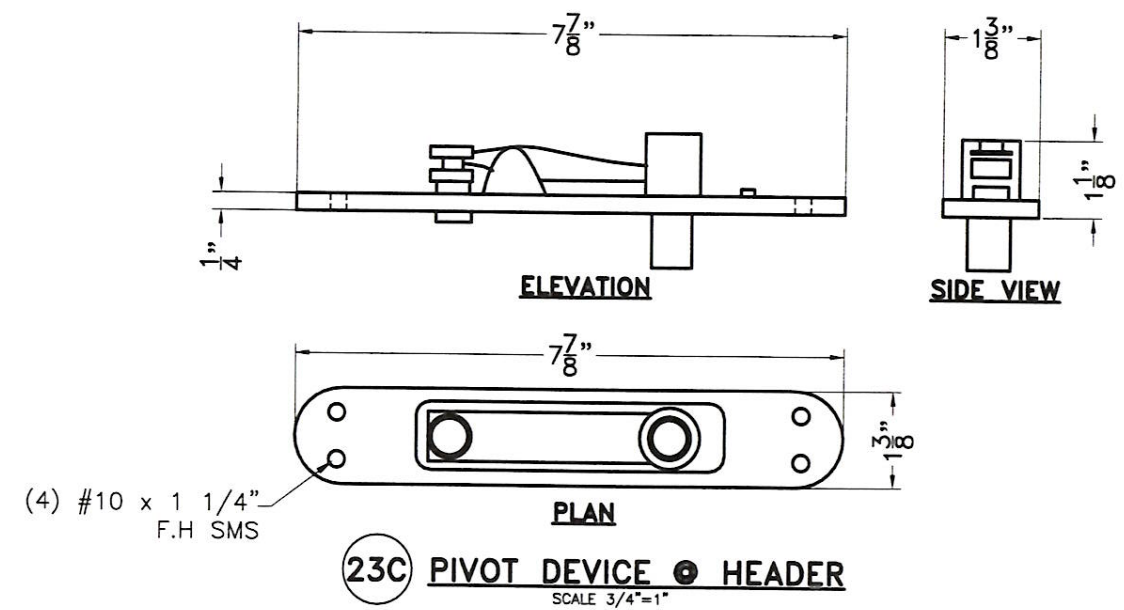
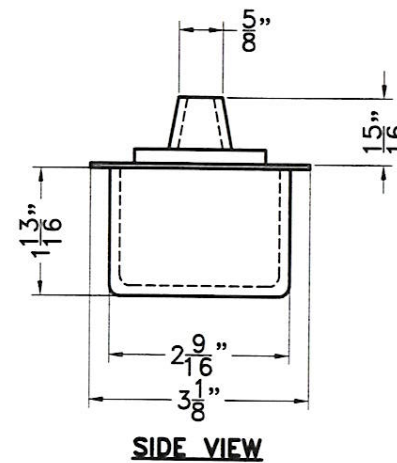
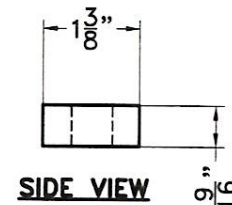
DRAWING No.

SHEET 3 OF 10



23 MODEL JK.05.500 PIVOT SYSTEM

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



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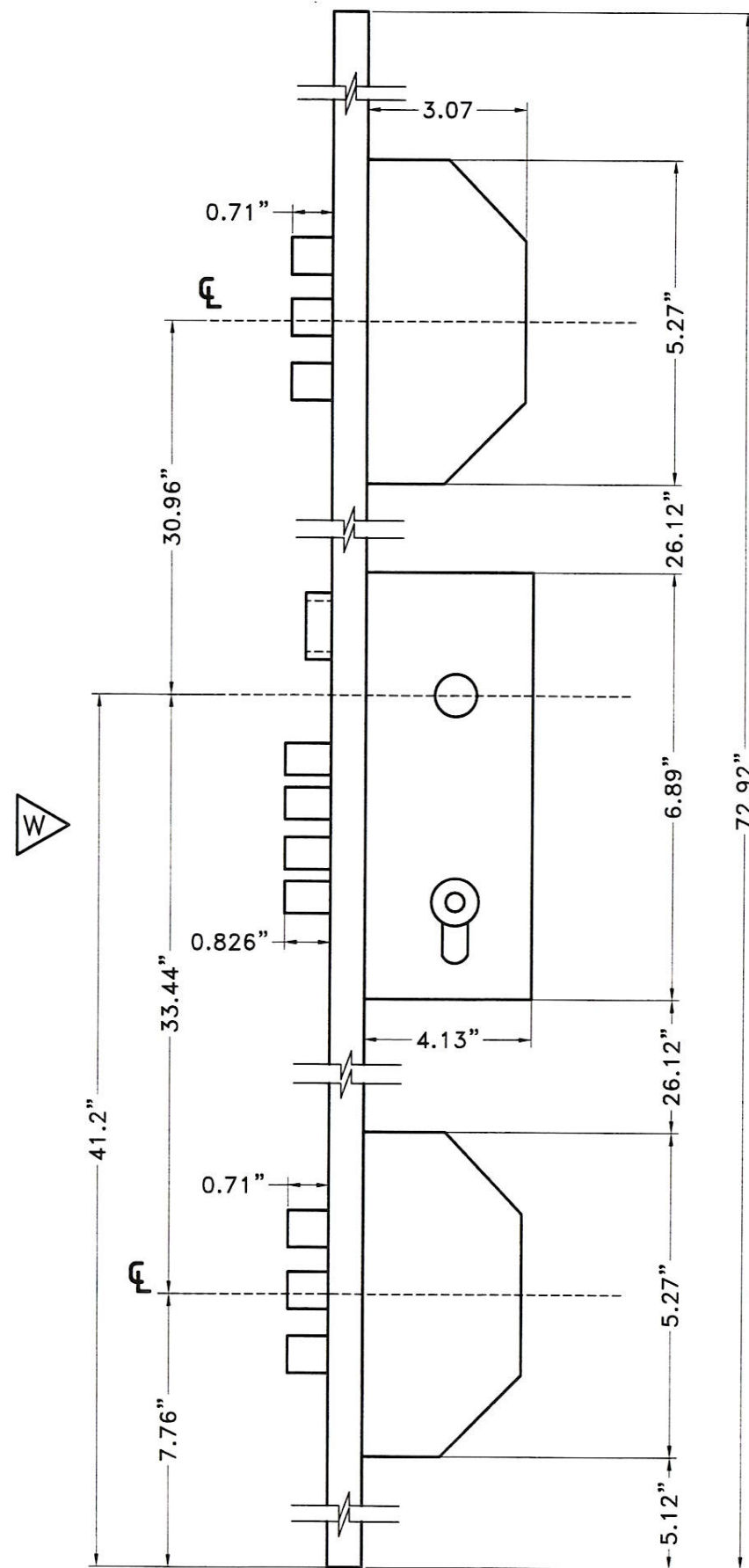
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DATE:

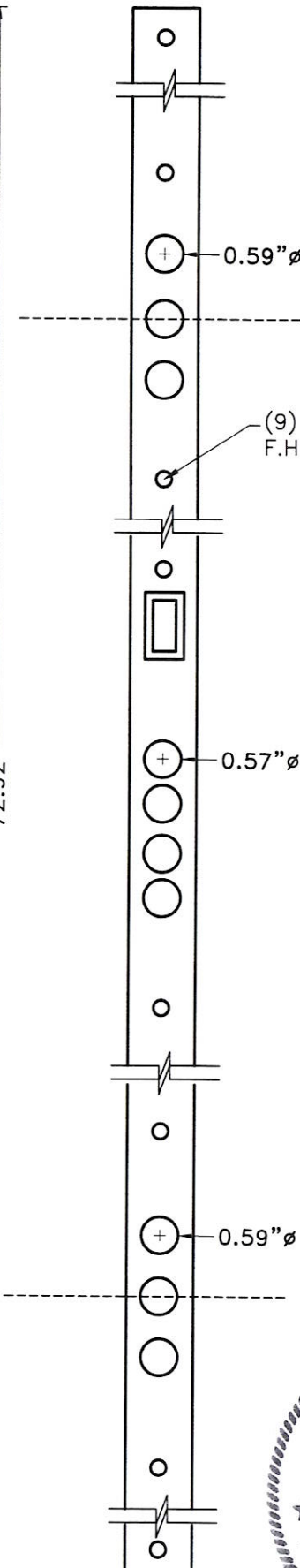
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SHEET 4 OF 10



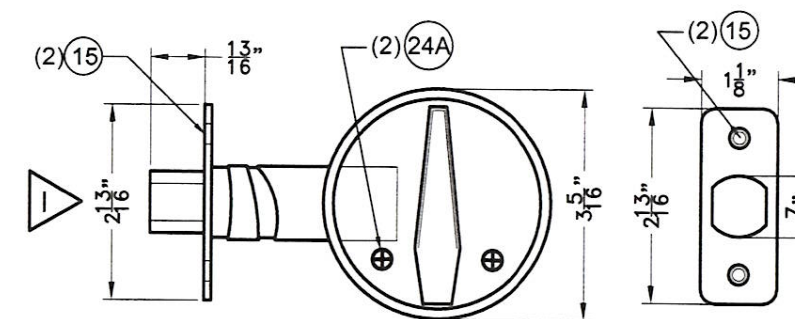
25 3 POINT LOCK



VIEW W



P.E. SEAL/SIGNATURE/DATE



24 SINGLE SIDE DEAD BOLT

COMPONENTS CONT'D.

SCALE 3/8"=1"

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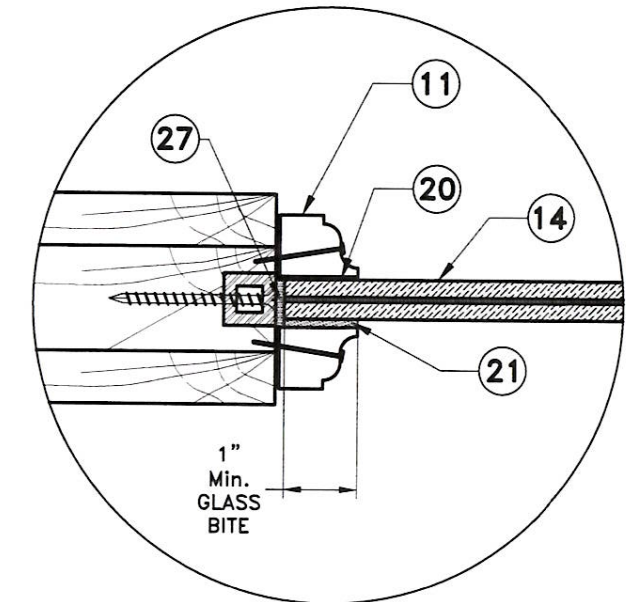
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SHEET 5 OF 10

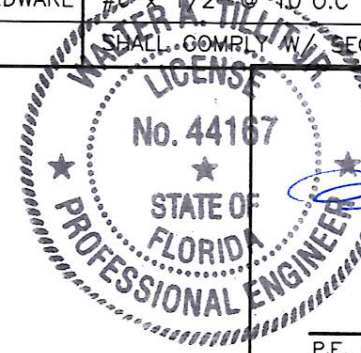
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2			4		

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.
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.
⑯	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
⑲	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 1/2" @ 10"O.C TO SILL ⑤. MODEL SKU Z53-DB
㉗	SETTING BLOCK	-	-	SECTION 2411.3.3.1 OF THE FLORIDA BUILDING CODE



GLAZING DETAIL
SCALE 3/8"=1"



P.E. SEAL/SIGNATURE/DATE

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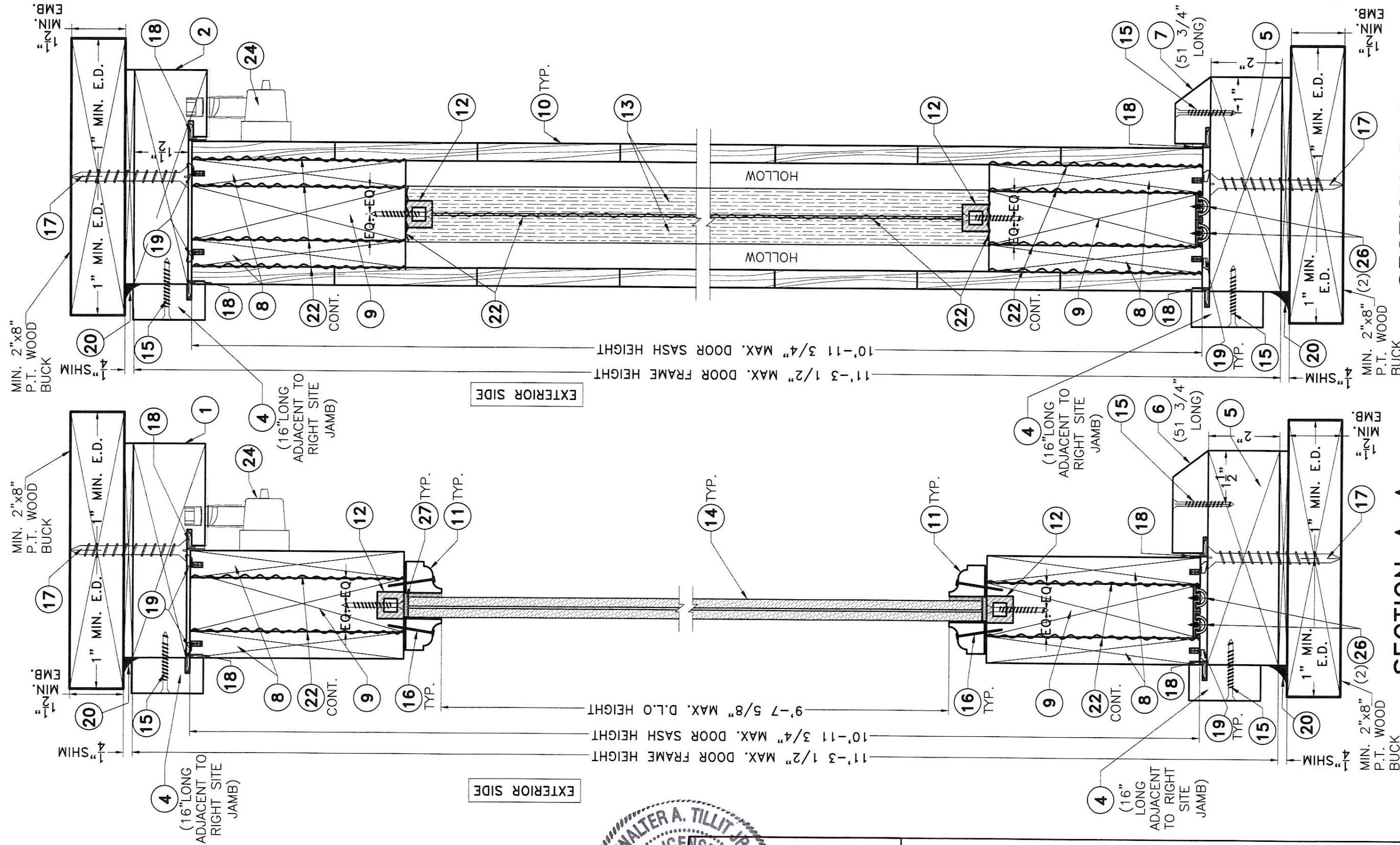
06/28/18
DATE:

17-047

DRAWING No.

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	COMP. ②7	7/16/18	3		
2	METAL INSTALLATION	3/15/19	4		

SHEET 6 OF 10



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. 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)**

IMPACT PRECIOUS WOOD, INC.

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

M.P.
DRAWN BY:

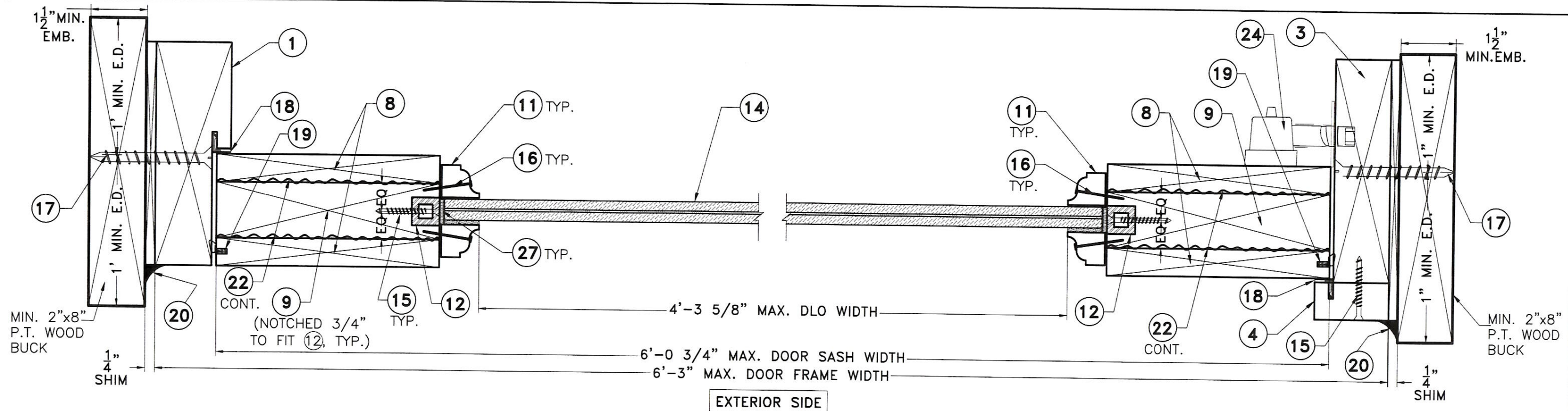
06/28/18
DATE:

17-047

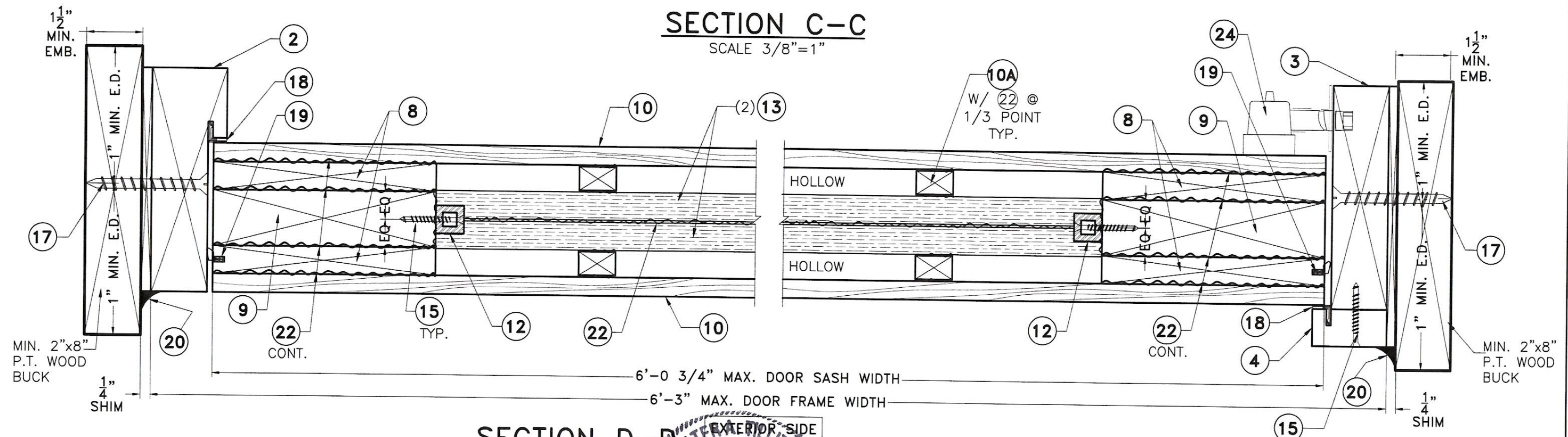
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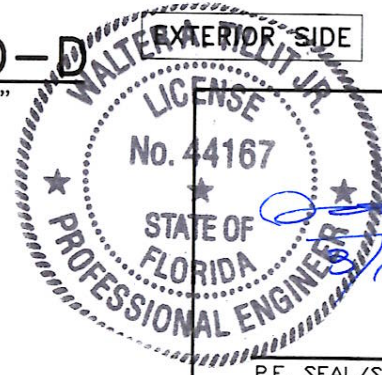
SHEET 7 OF 10



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



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



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IMPACT PRECIOUS WOOD, INC.

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MIAMI, FL 33166
PH: (786) 222-0427, FAX: (305) 428-3011

M.P.
DRAWN BY:

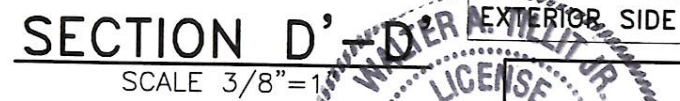
06/28/18
DATE:

17-047

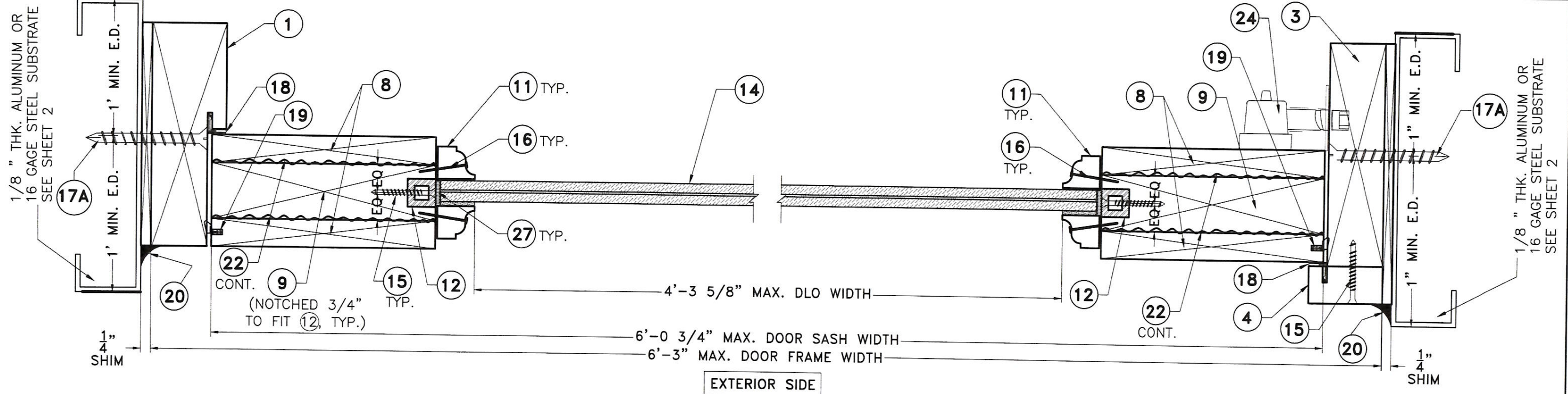
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

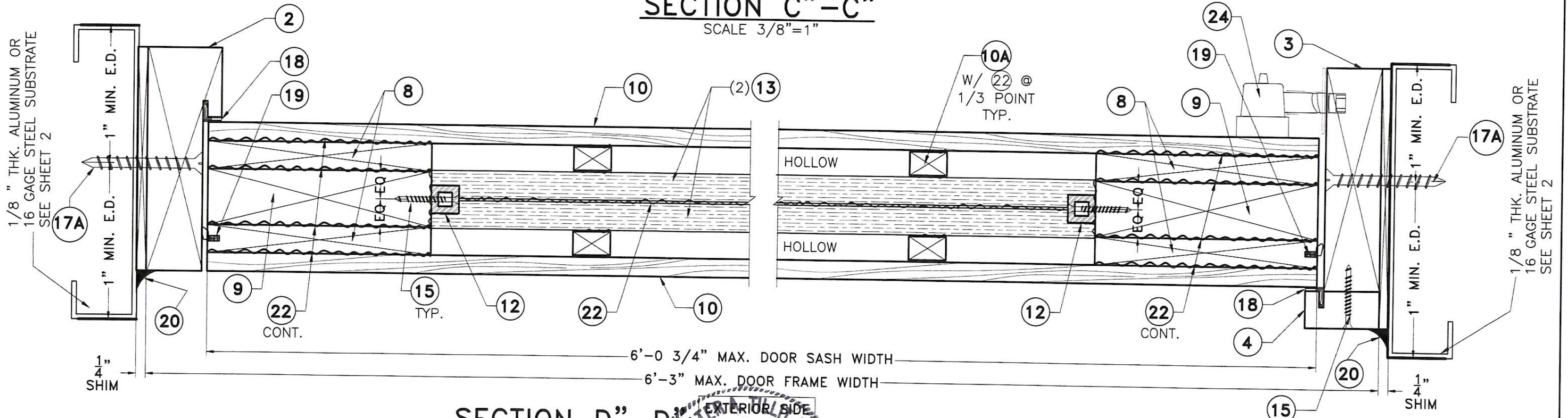
SHEET 8 OF 10



SHEET 8A OF 10



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



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

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

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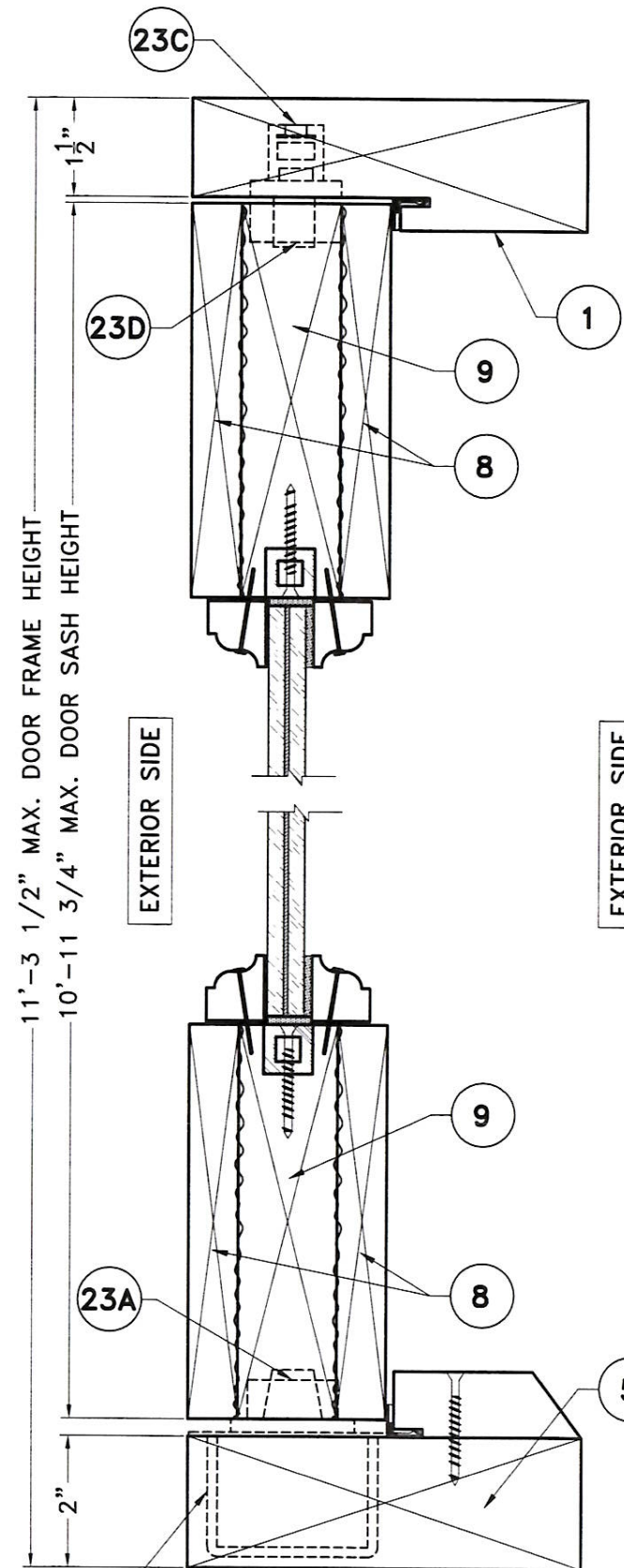
SINGLE PANEL SOLID/GLAZED WOOD PIVOT DOOR (LARGE MISSILE IMPACT RESISTANT)

IMPACT PRECIOUS WOOD, INC.

6333 NW 74 AVE.,
MIAMI, FL 33166
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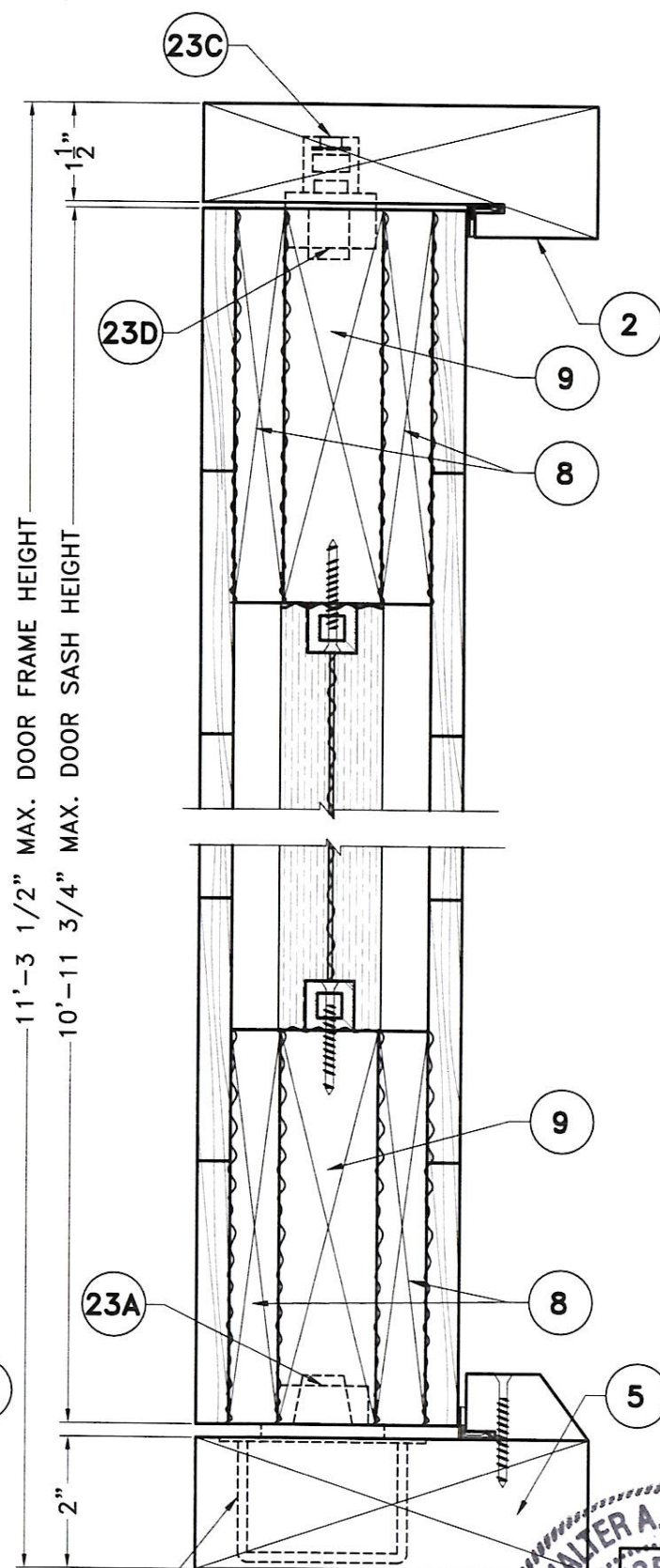
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	METAL INSTALLATION	3/15/19	3		
2			4		

M.P.
DRAWN BY:
06/28/18
DATE:
17-047
DRAWING No.
SHEET 8B OF 10



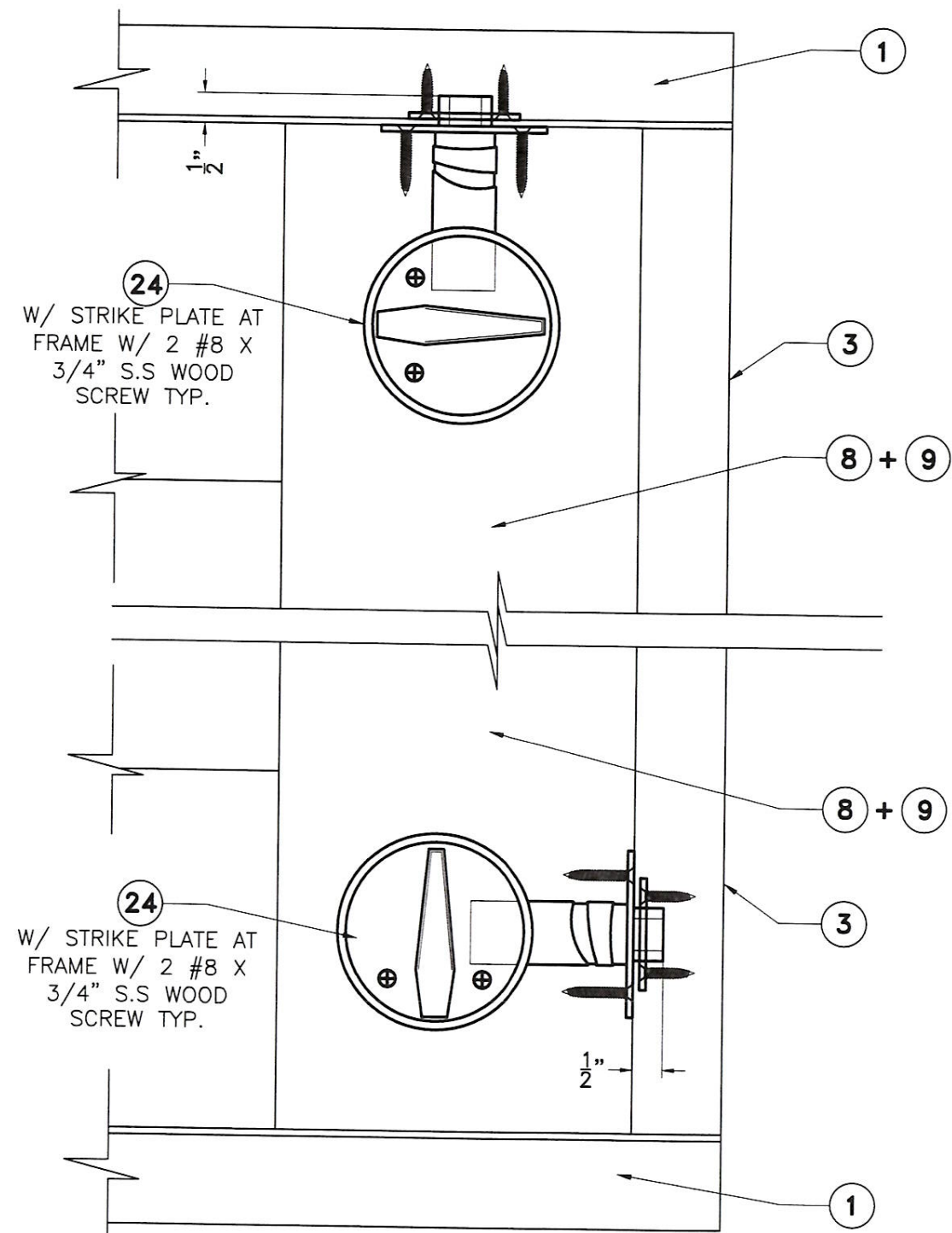
**SECTION E-E @
PIVOT SYSTEM
(GLASS DOOR)**

SCALE 3/8"=1"



**SECTION F-F @
PIVOT SYSTEM
(WOOD DOOR)**

SCALE 3/8"=1"



**TYPICAL ELEVATION @
SINGLE SIDE DEAD BOLT**

WALTER A. TILLIT JR.
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DRAWING No.

SHEET 9 OF 10

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	COMP. (2)	7/16/18	3		
2			4		

