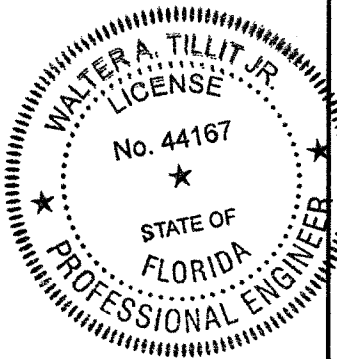


SHEET CONTENT:

PAGE #1 INDEX & COVER PAGE.
PAGES #1A, 2 & 3 HOLLOW METAL DOOR ASSEMBLY DETAILS.
PAGE #4 HOLLOW METAL DOOR COMPONENT DETAILS DETAILS.
PAGE #5 HOLLOW METAL FRAME COMPONENT DETAILS DETAILS.

DOOR SCHEDULE		
Max. A.S.D. Design Pressure Rating		
	Where water infiltration Requirement is needed	Where water infiltration Requirement is not needed
Positive	Not Approved	+60 PSF
Negative	Not Approved	-60 PSF



8/17/2023

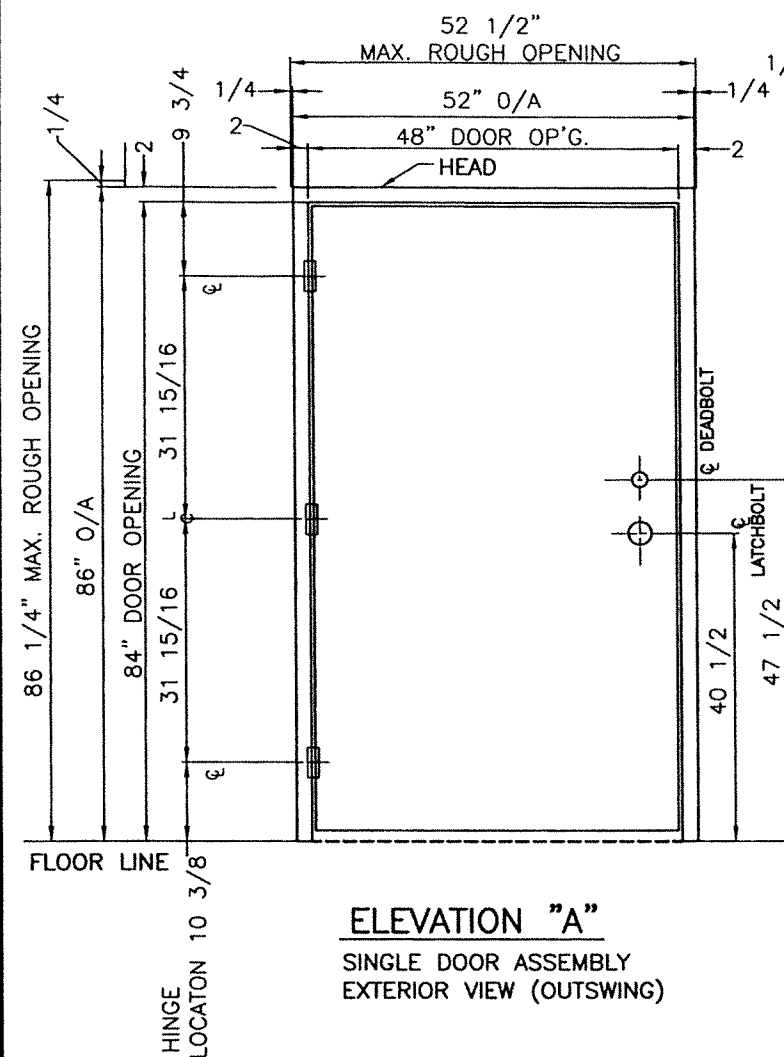
GENERAL NOTES AND SPECIFICATIONS:

1. SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 OF THE ABOVE MENTIONED CODES, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.
- 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 THIS SHEET.
- THIS DOOR'S ADEQUACY FOR WIND AND IMPACT LOAD HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER FTL LAB REPORTS #FTL-1735, FTL-1736 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.
2. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS AND AT BILL OF MATERIALS OF THIS DRAWING.
3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FBC TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.
4. 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.
5. ALL WELDING TO CONFORM W/AMERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS. USE E60XX ELECTRODES
6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON THIS DRAWING. MAXIMUM ANCHORS SPACINGS SHALL BE AS PER SECTIONS OF THIS DRAWING.
7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED IN THIS DRAWING.
8. **THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.**
9. THESE DOOR ASSEMBLIES ARE APPROVED FOR WATER AND AIR INFILTRATION AS PER TESTING INDICATED ON NOTE 1, AND SHALL BE LIMITED TO DESIGN PRESSURE RATINGS INDICATED ON DOOR SCHEDULE ON THIS SHEET.
10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME AND THRESHOLD.
11. (a) THIS PRODUCT EVALUATION DOCUMENT (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 PRODUCT EVALUATION DOCUMENT (P.E.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) ORIGINAL P.E.D. SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
12. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

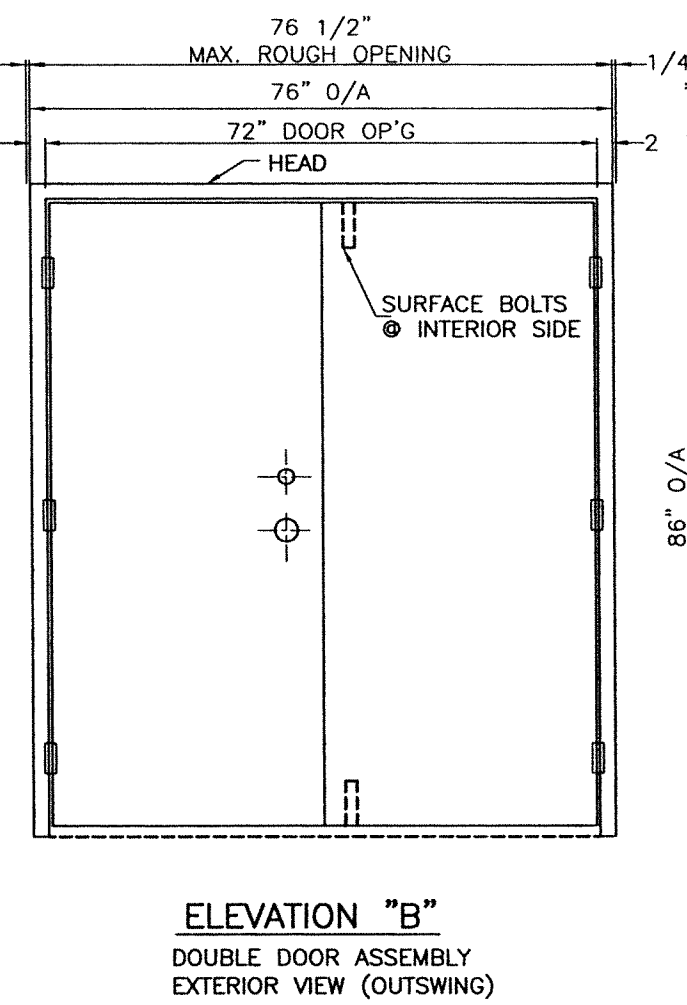
THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

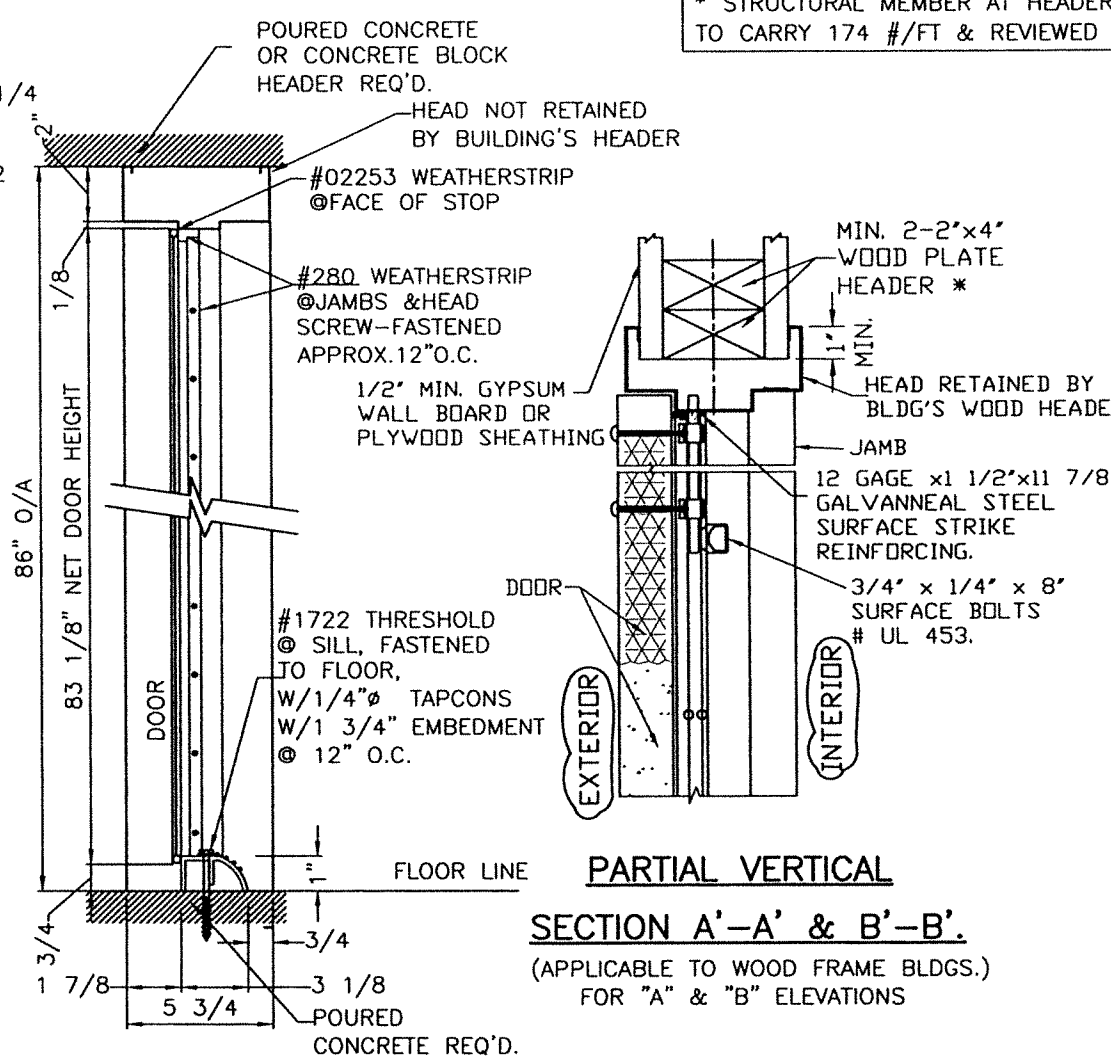
©2023 TILTECO, INC.		SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR - L.M.		DRAWN BY: Y.M.	
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355N.W. 30th. St., Sta. 305, VIRGINIA GARDENS, FL 33186 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204		08/17/2023 DATE	
				23-176 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-151	08/17/23	3		
2			4		
				SHEET 1 OF 5	



ELEVATION "A"
SINGLE DOOR ASSEMBLY
EXTERIOR VIEW (OUTSWING)

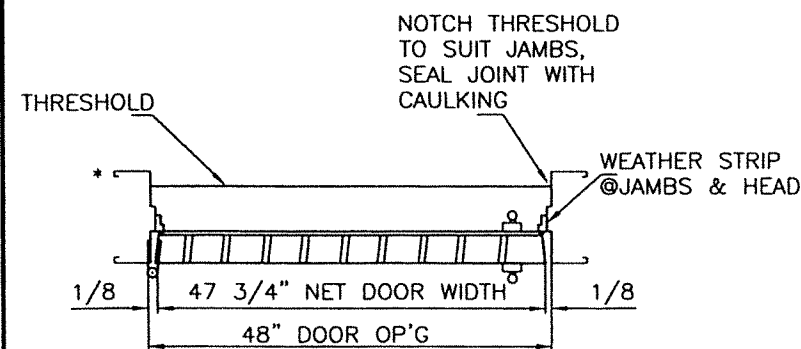


ELEVATION "B"
DOUBLE DOOR ASSEMBLY
EXTERIOR VIEW (OUTSWING)

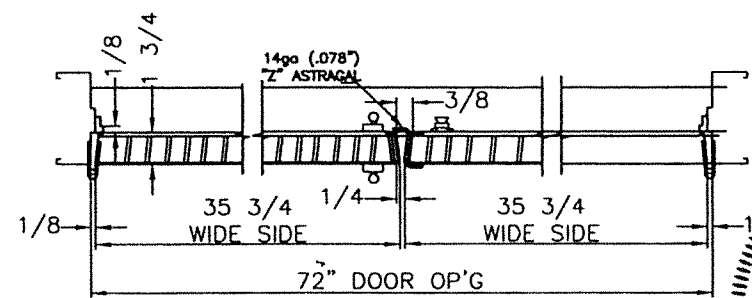


PARTIAL VERTICAL SECTION A'-A' & B'-B'
(APPLICABLE TO WOOD FRAME BLDGS.)
FOR "A" & "B" ELEVATIONS

VERTICAL SECTION:
FOR "A" & "B" ELEVATIONS



HORIZONTAL SECTION "A"



HORIZONTAL SECTION "B"

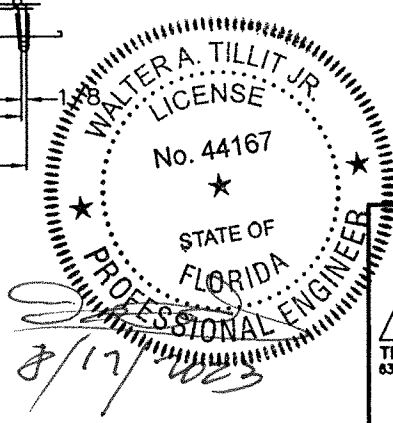
* SEE SHEET NUMBER 3 FOR JAMB ANCHORING DETAILS

HOLLOW METAL DOOR ASSEMBLY DETAILS

* STRUCTURAL MEMBER AT HEADER MUST BE DESIGNED TO CARRY 174 #/FT & REVIEWED BY BUILDING OFFICIAL.

BILL OF MATERIALS:

- NOTE:**
ALL STEEL HOT-DIP GALVANIZED TO ASTM A653 (CQ.LFO), COATING DESIGNATION A25 (ZF75).
- FRAME:**
- JAMBS & HEAD: 16ga (.057" MIN.)
 - HINGE REINF: 10ga (.134" MIN.)
 - STRIKE/DEADBOLT REINF: 14ga (.075" MIN.)
 - MORTAR GUARDS 22ga (.027").
- DOOR:**
- FACE SHEET: 18ga (.045" MIN.)
 - HINGE REINF: 10ga (.134" MIN.)
 - LOCK REINF., END CHANNELS, CLOSER REINF. 16ga (.057" MIN.)
 - SURFACE BOLT REINF. ASTRAGAL & STRIKE TABS: 14ga (.75" MIN.)
 - PAPER HONEYCOMB MFD BY TENNECO PKG OR 1.5PCF POLYURETHANE OR 12.5 PCF MINERAL BOARD CORE BONDED TO INSIDE FACES.
- HARDWARE:**
- HINGES-4 1/2"x4" PENROD # PLPTSQSQ
 - LATCHSET-S.PARKER #B FMS 626
 - DEADLOCK-S.PARKER #92160
 - SURFACE BOLTS-3/4"x1/4"x8" #UL453
 - WEATHERSTRIP-AFCO#280,ALUM/VINYL
 - SECURED W/#6x1/2"S.M.S.
 - MD # 02253 ADHESIVE BACKED CLOSED CELL FOAM (1/8"x1/2")
 - THRESHOLD-AFCO# 1722, ALUM/VINYL SECURED W/ 1/4" TAPCONS W/1 3/4" EMBEDMENT OR #8x2" F.H. SMS. OR #10x2" F.H.W.S.



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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0008719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR - L.M.

DAYBAR INDUSTRIES LTD
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-4204

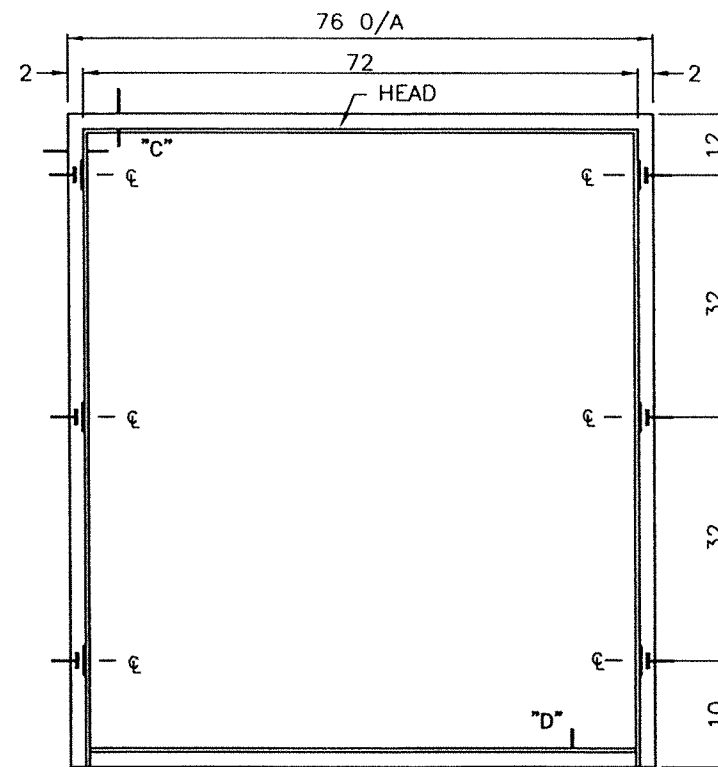
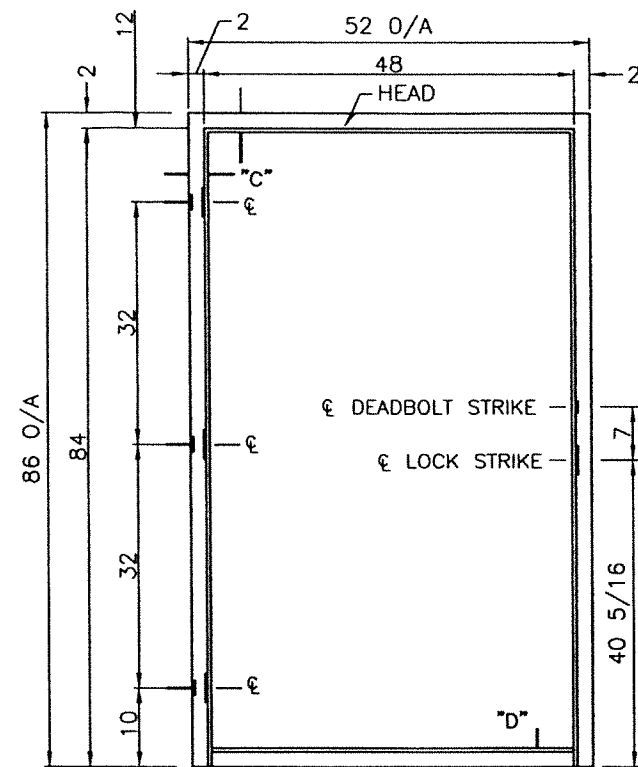
DRAWN BY: Y.M.

08/17/2023 DATE

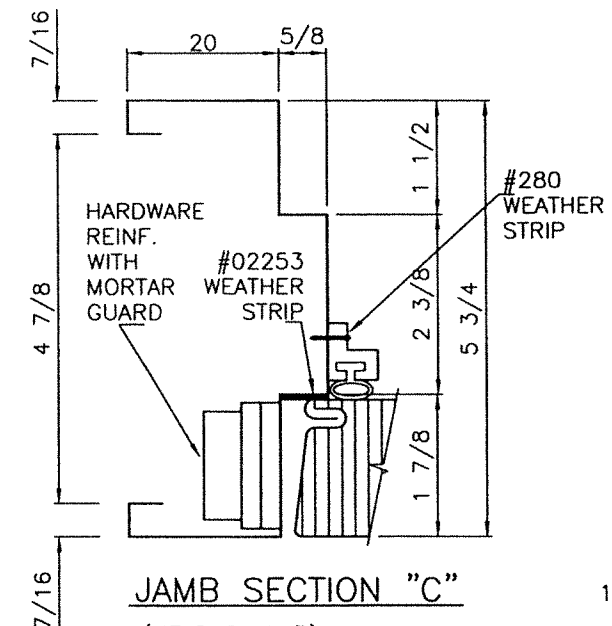
23-176
DRAWING No

SHEET 1A OF 5

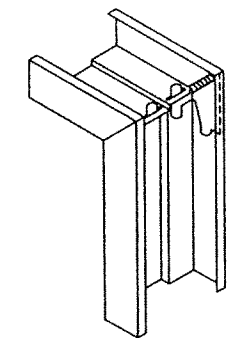
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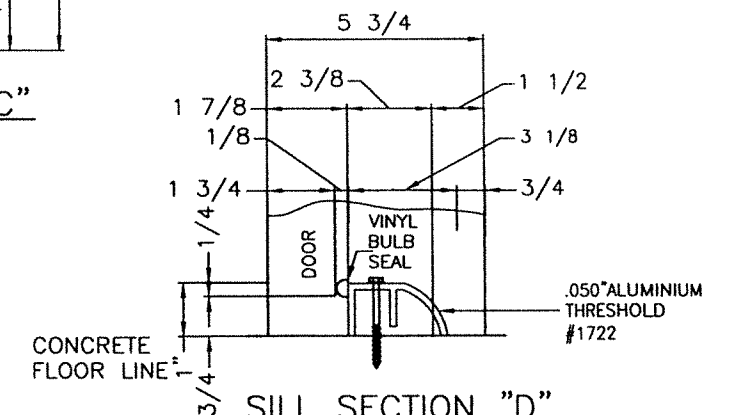
JAMB ANCHOR
LOCATION



(HEAD SIMILAR)
SEE SHEET.NO.5 FOR
REINFORCING DETAILS



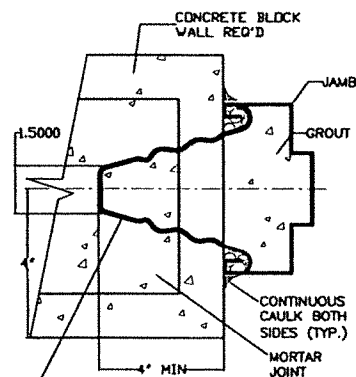
WELDED CORNER DETAIL
DIEMITRED CORNER CONT.
WELDED INSIDE FACES &
AT RETURNS



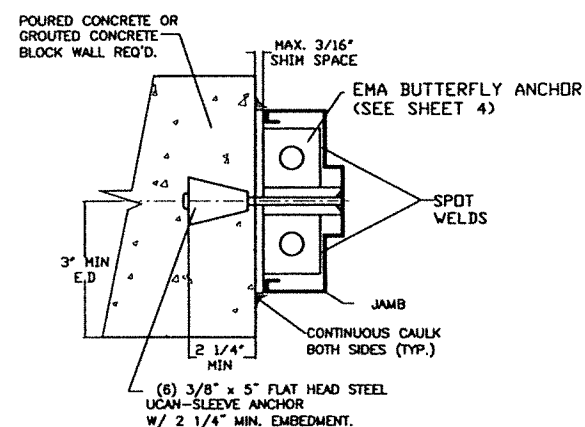
#1722 THRESHOLD SCREWED TO
SILL W/1 1/4" Ø TAPCONS
W/ 1 3/4" EMBEDMENT
@ 12" O.C.

JAMB ANCHORING DETAILS:

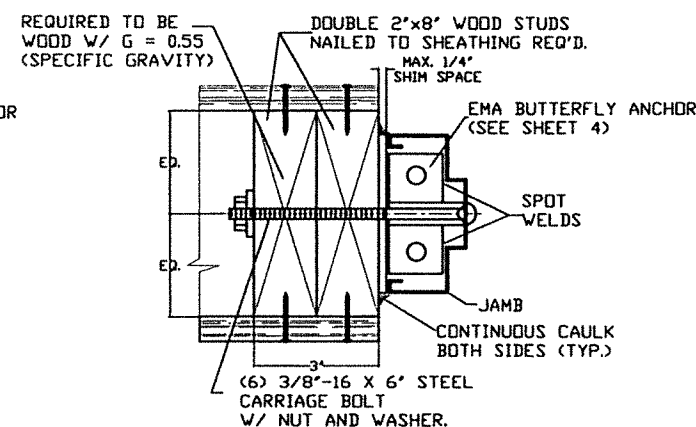
(NO ANCHORS IN HEAD ARE REQUIRED WHEN HEADER & JAMBS SUBSTRATE IS CONCRETE OR GROUTED CONCRETE BLOCK HEAD IS REQ'D. TO BE RETAINED BY EXISTING BUILDINGS WOOD HEADER, WHEN HEADER & JAMBS SUBSTRATE IS WOOD)



(6) MASONRY WIRE ANCHORS (0.175"Ø, SEE SHEET 4) IN HORIZ. MORTAR JOINTS; FILL JAMBS SOLID WITH GROUT PER ASTM C478 W/ MIN. COMPRESSION STRENGTH OF 2.5 KSI.

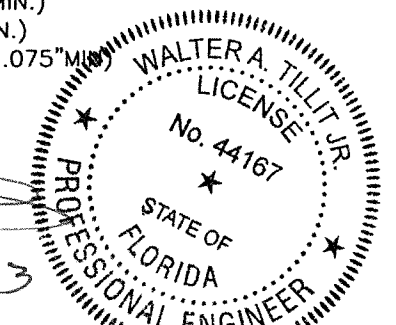


INSTALLATION OF UCAN SLEEVE ANCHORS TO MASONRY WALLS



BILL OF MATERIALS:

NOTE:
ALL STEEL HOT-DIP GALVANIZED
TO ASTM A653 (CQ,LFQ), COATING
DESIGNATION A25 (ZF75).
- JAMBS & HEAD: 16ga (.057" MIN.)
- HINGE REINF: 10 ga (.134" MIN.)
- STRIKE/DEADBOLT REINF:14ga (.075
- MORTAR GUARDS 22ga (.027").



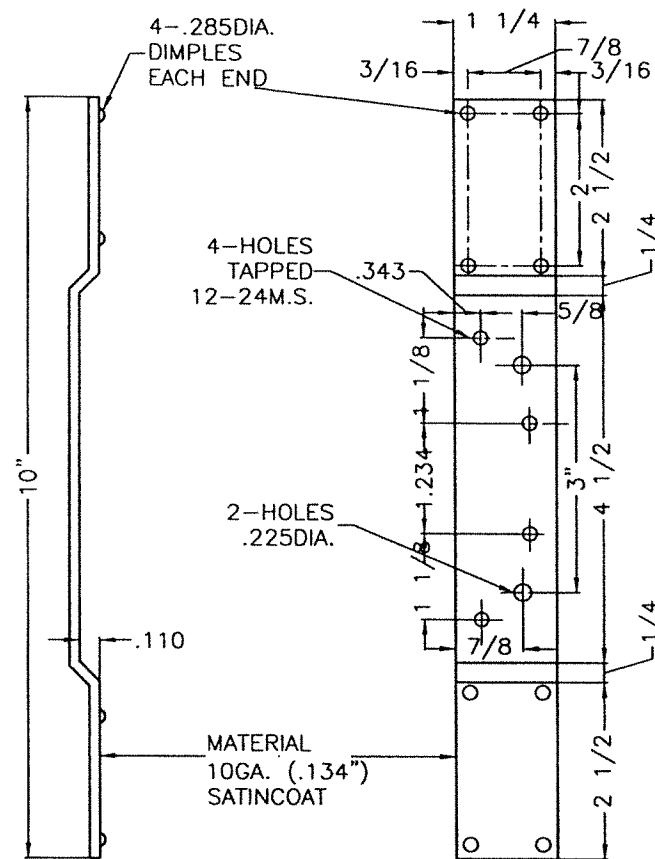
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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SHEET 3 OF 5																				

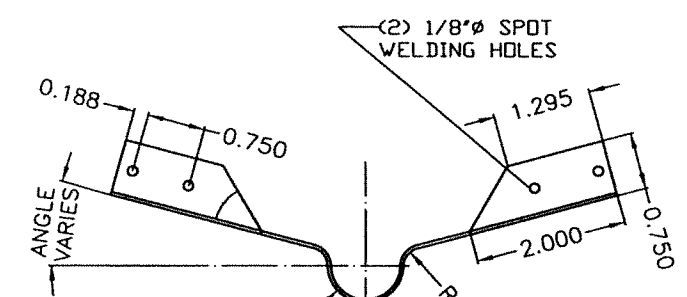
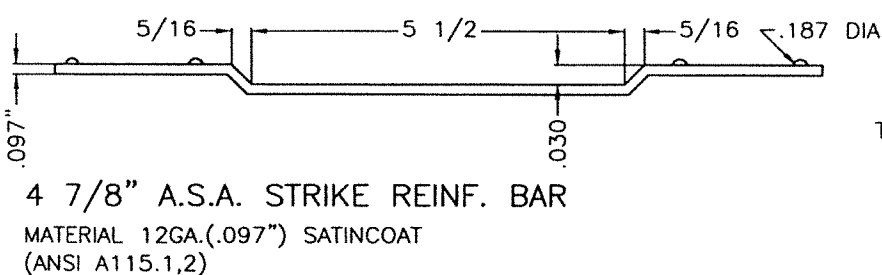
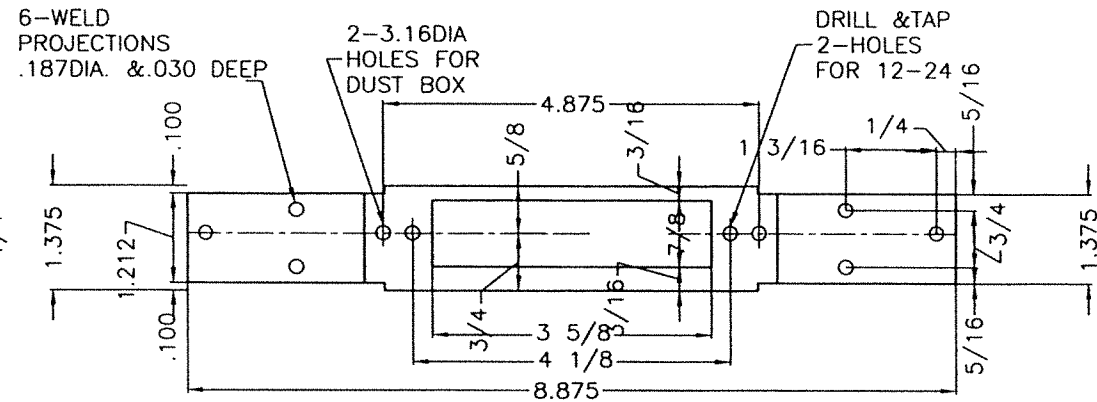
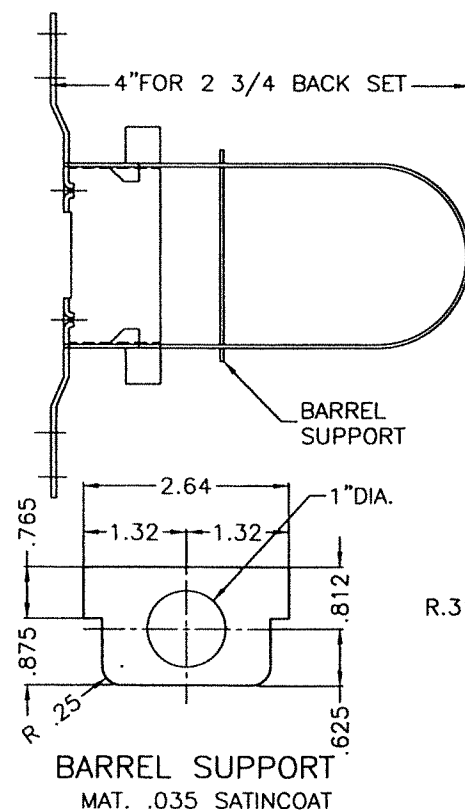
**SERIES LS18 FLUSH OUTSWING COMMERCIAL
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DAYBAR INDUSTRIES LTD
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 ON CANADA, L6T 2J4
 TEL: 905 625-8000
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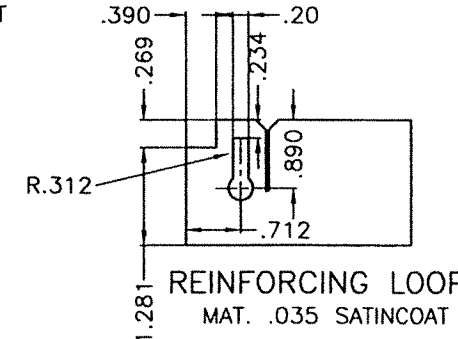
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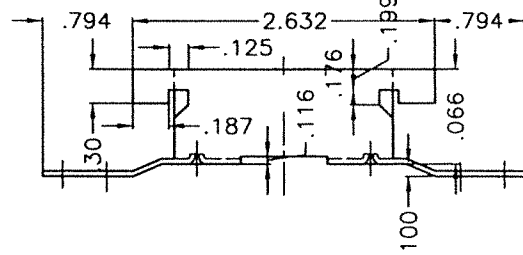
DOOR HINGE REINFORCING



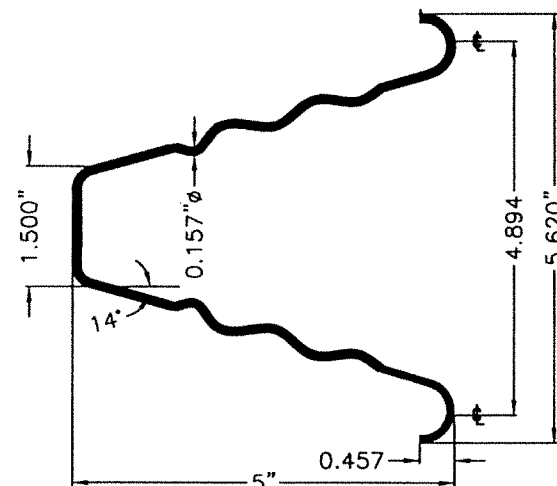
EMA BUTTERFLY ANCHOR
MATERIAL: 18 GA SATIN COAT



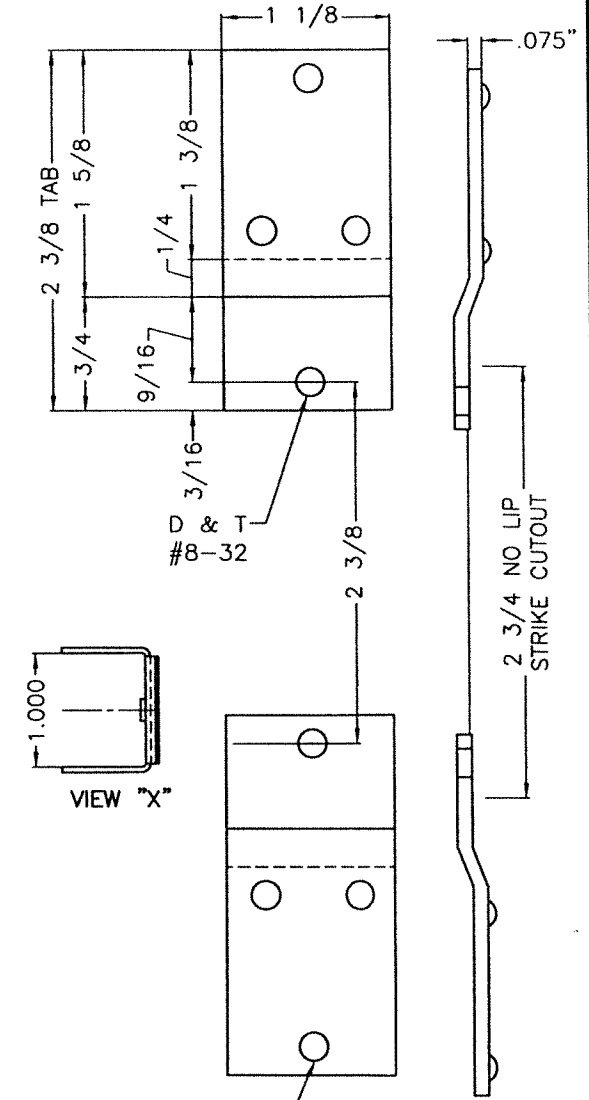
HOLLOW METAL DOOR COMPONENT DETAILS



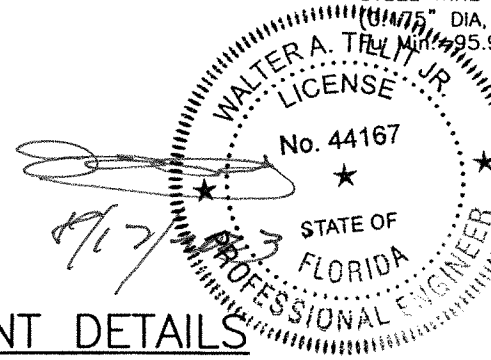
#161 EDGE REINFORCING
MAT. .045 SATINCOAT



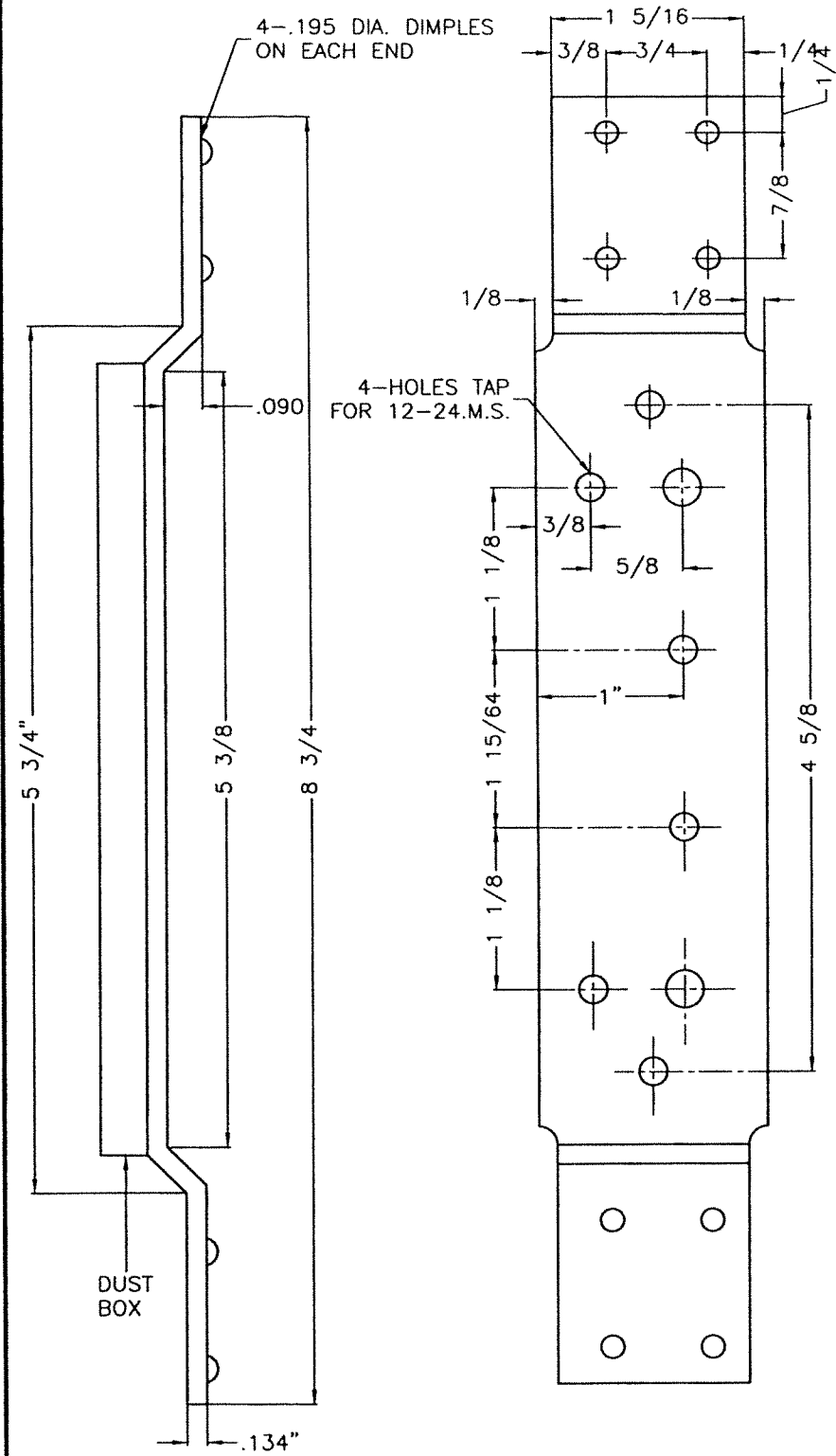
WIRE ANCHOR



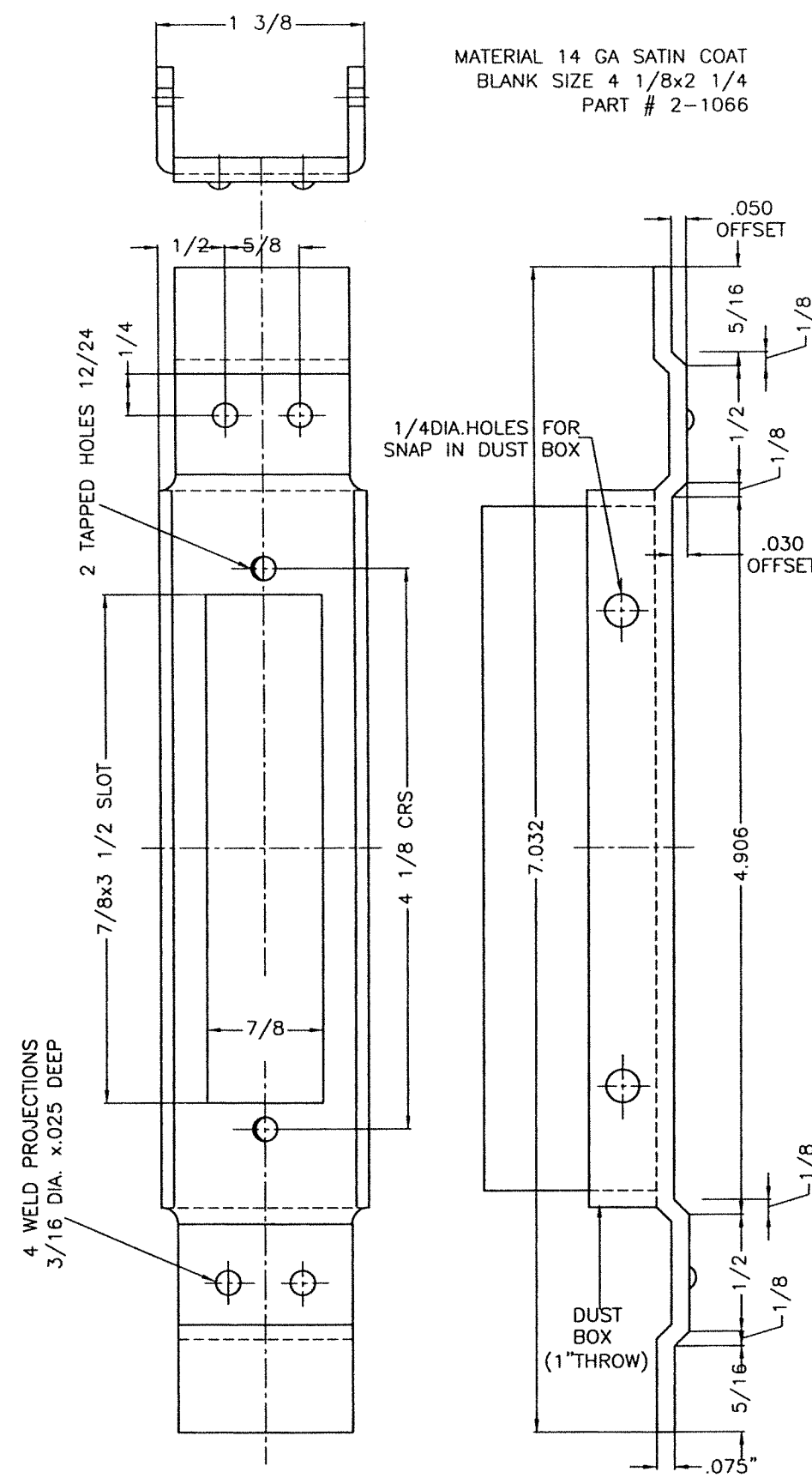
2 3/4" DEADBOLT STRIKE REINFORCEMENT
(ANSI A115.17)



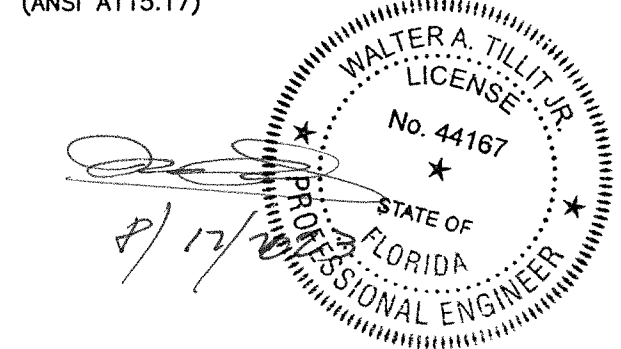
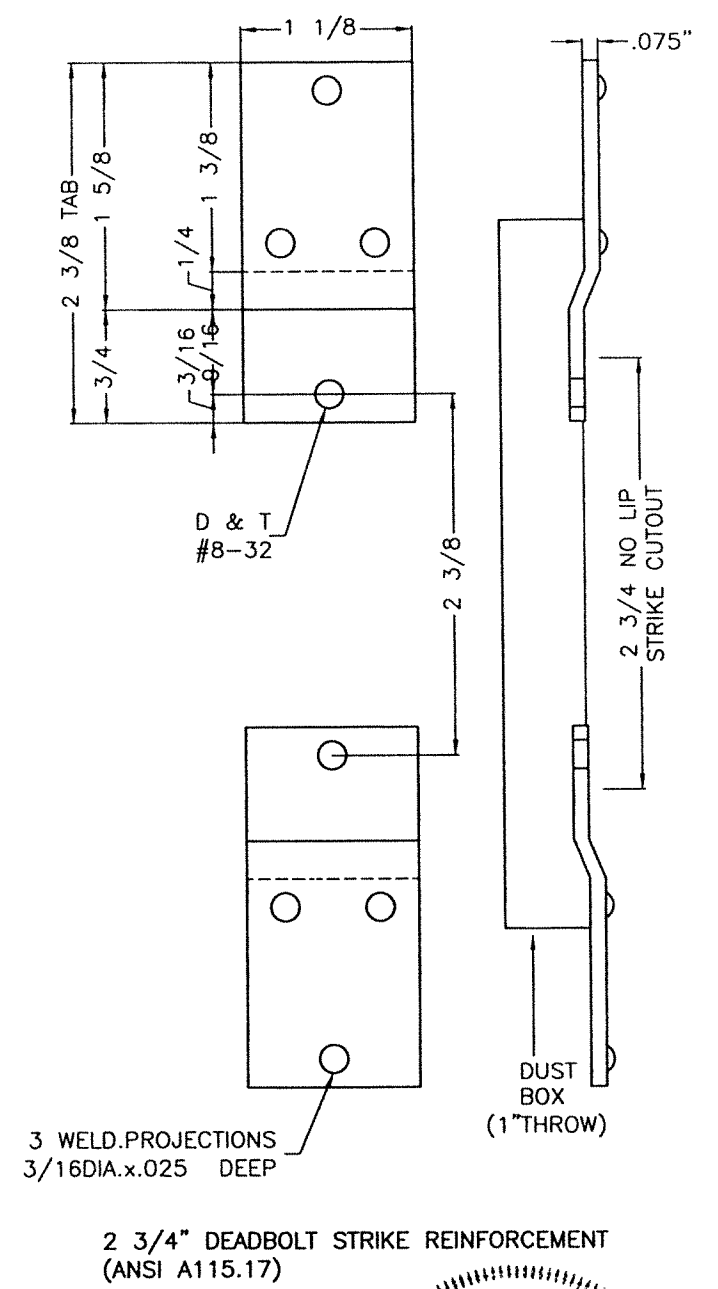
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
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2			3		
			DRAWN BY: Y.M.		
			08/17/2023 DATE		
			23-176 DRAWING No		
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FRAME HINGE REINFORCING - 4 1/2"



4 7/8" STRIKE REINFORCEMENT - ANSI A115.1,.2



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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

SHEET 5 OF 5

HOLLOW METAL FRAME COMPONENT DETAILS