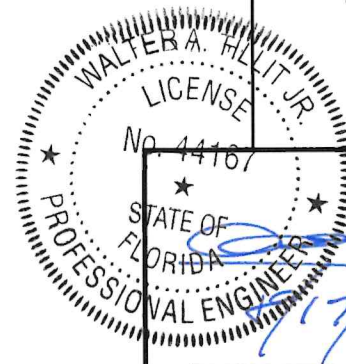


SHEETS CONTENT:

PAGE #1 INDEX & COVER PAGE
PAGE #1A ASSEMBLY ELEVATIONS, (DETAILS #20,21,22)
PAGE #2 TYPICAL SECTION THROUGH, VERTICAL/HORIZONTAL.
PAGE #3 FRAME SECTIONS AND REINFORCINGS,
(DETAILS #15,16,17,18,19)
PAGE #4 DOOR SECTION THROUGH EDGE SEAM, (DETAIL #6)
PAGE #5 DOOR TOP AND BOTTOM TYPICAL END CHANNEL,
(DETAIL #12)
PAGE #6 DOOR SURFACE CLOSER REINFORCING, (DETAIL #11)
PAGE #7 DOOR SURFACE CLOSER REINF AND END CHANNEL
ASSEMBLY, (DETAIL #13)
PAGE #8 DOOR STEEL TOP CAP, (DETAIL #14)
PAGE #9 DOOR HINGE REINFORCING.
PAGE #10 ANSI #A115.1 #86 MORTISE LOCK,RP REINFORCINGS,
(DETAIL #9)
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PAGE #12 RIM PANIC SURFACE BOLT REINFORCINGS, (DETAIL
#10)
PAGE #13 13A ANCHOR OPTIONS AND DETAILS
PAGE #14 BILL OF MATERIALS

MAX. A.S.D. DESIGN PRESSURE
RATING
+90, -90 PSF

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



P.E. SEAL/SIGNATURE/DATE

GENERAL NOTES AND SPECIFICATIONS:

1. SINGLE SERIES LS18 FLUSH/EMBOSSED OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" FRAME, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE **2026 (9th 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 HTL LAB REPORT #0279-1017-01 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 (SHEET 14) 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 SHEET 13 OF THIS DRAWING AND SHALL COMPLY WITH SECTION 1711 OF THE FLORIDA BUILDING CODE. MAXIMUM ANCHORS SPACING SHALL BE AS PER ELEVATIONS ON SHEET 1A OF THIS DRAWING.

7. PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE.

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 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'S MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT DOOR. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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

SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR W/SERIES "AS" STEEL FRAME

DRAWN BY:
W.H.

DAYBAR INDUSTRIES LTD

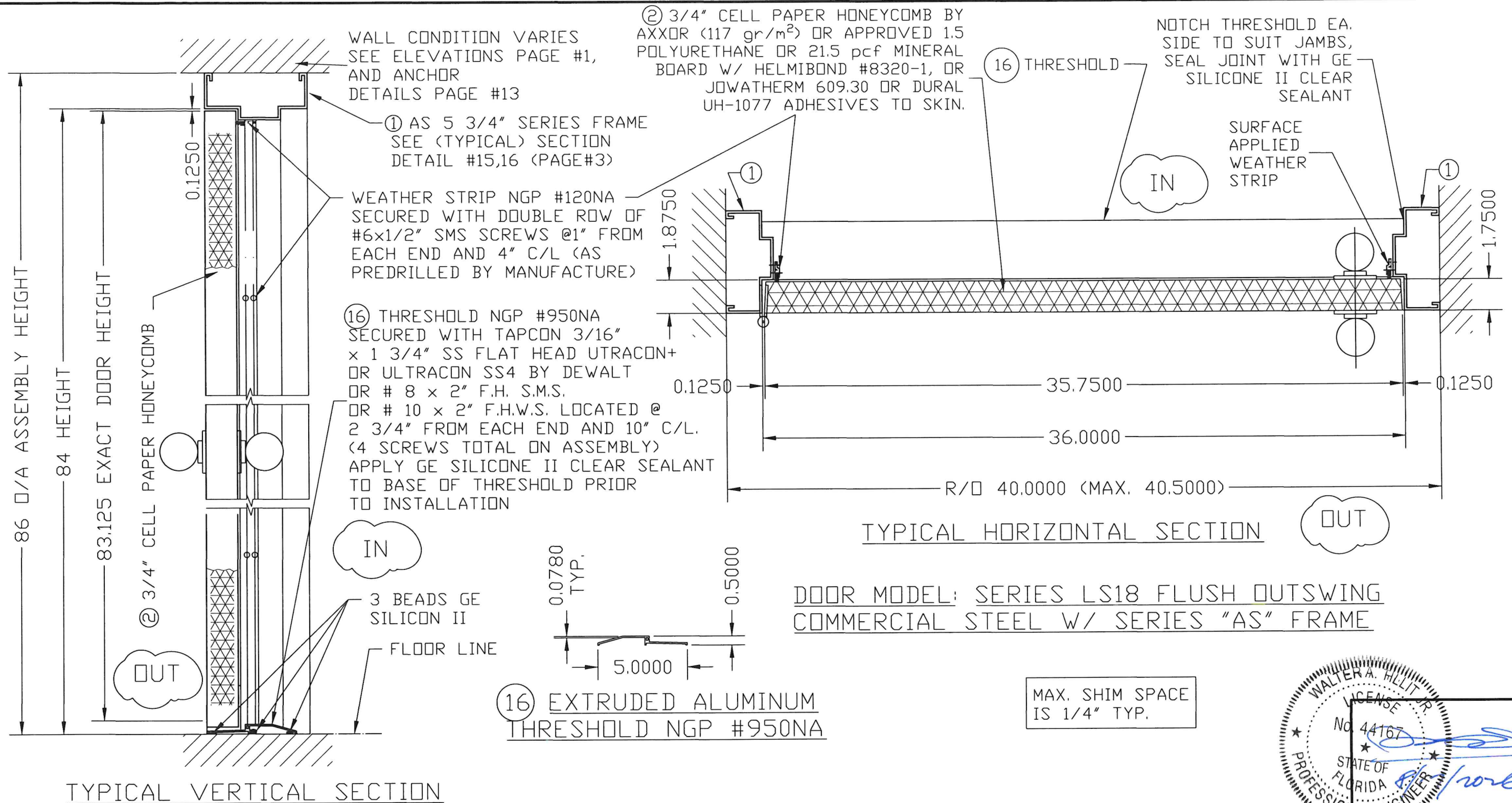
08/07/2026
DATE

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

26-247
DRAWING No

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2			4		

SHEET 1 OF 14



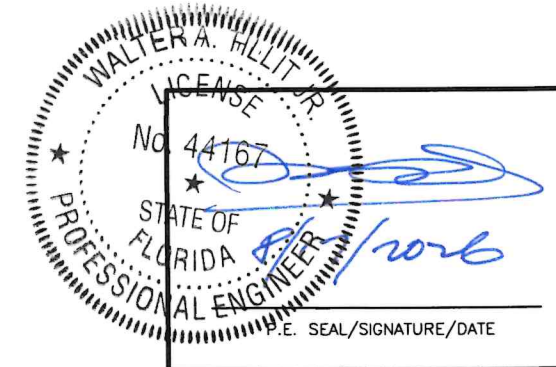
MATERIAL NOTE:

② DOOR 18 GAUGE .045 MINIMUM.

ALL STEEL COMPONENTS OF THIS ITEM, i.e., FACE SHEETS, INTERNAL COMPONENTS AND REINFORCEMENTS ARE MANUFACTURED FROM TENSION LEVELED STEEL CONFORMING TO ASTM A924, GALVANIZED TO ASTM A653/A653M, COMMERCIAL STEEL (TYPE B), COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL; AVERAGE TENSILE STRENGTH: 52 KSI ;AVERAGE YIELD STRENGTH: 45 KSI, ELONGATION: 40%.

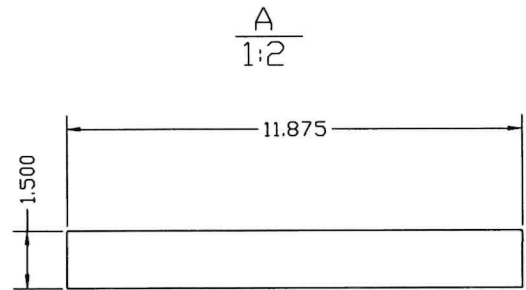
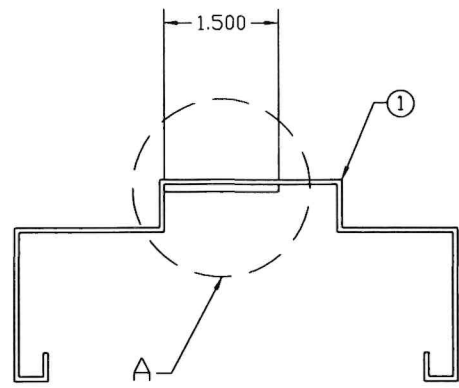
① FRAME 16 GAUGE .058 MINIMUM

ALL STEEL COMPONENTS OF THIS ITEM, i.e., HEAD, JAMBS, REINFORCEMENTS AND ANCHORS ARE MANUFACTURED FROM COMMERCIAL STEEL (TYPE B), GALVANIZED TO ASTM A653/A653M, COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL; AVERAGE TENSILE STRENGTH, 52 KSI AVERAGE YIELD STRENGTH, 45 KSI, ELONGATION: 40%.



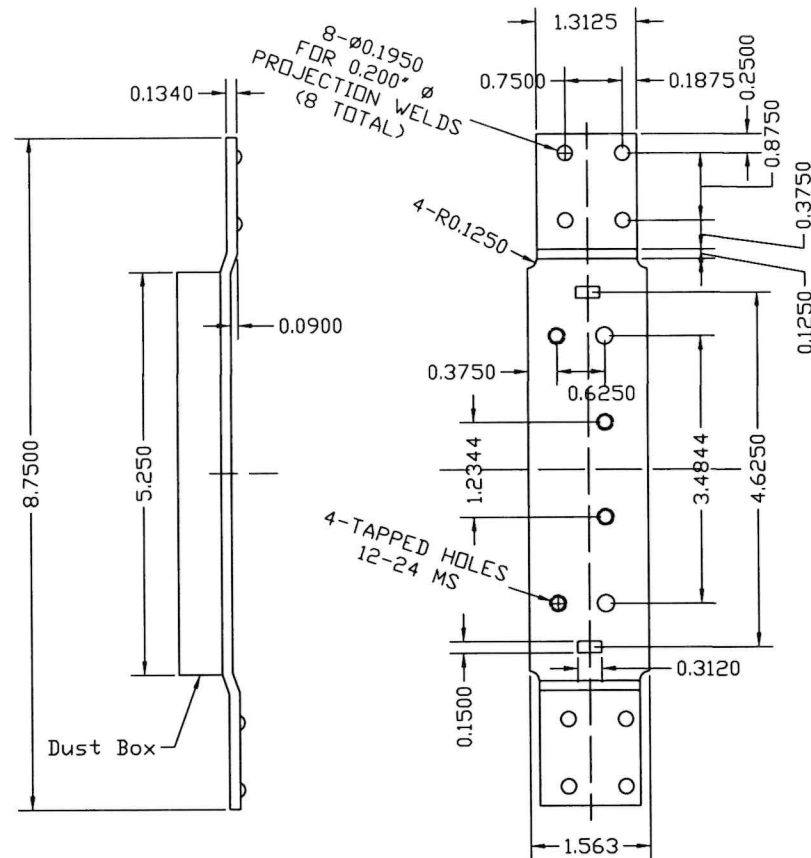
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©2026 TILTECO, INC.		SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" STEEL FRAME		DRAWN BY: W.H.	
TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-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		08/07/2026 DATE	
				26-247 DRAWING No	
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2			4		
			SHEET 2 OF 14		



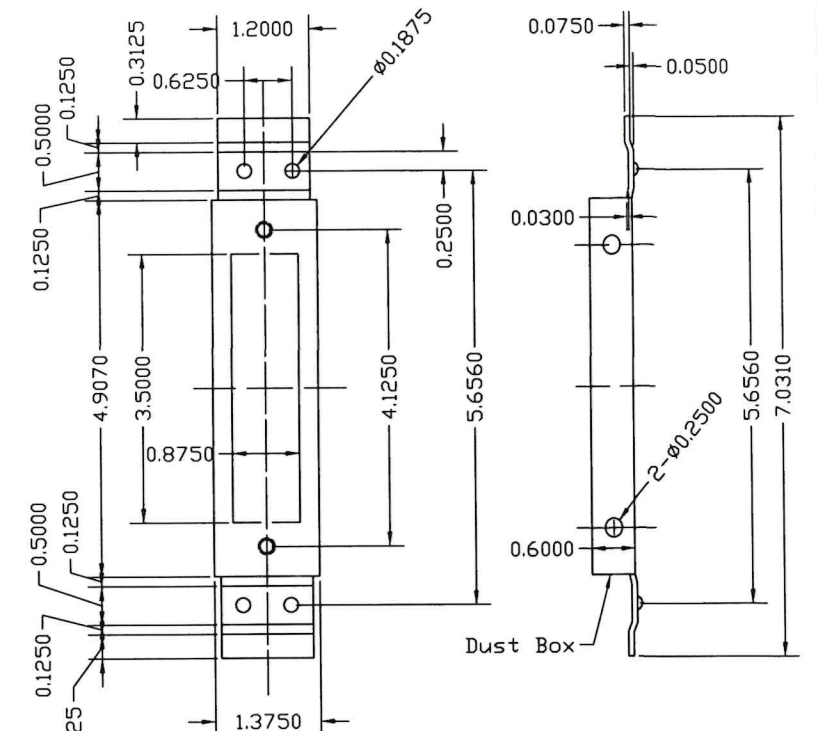
REINFORCING MATERIAL:
GAUGE 12 MINIMUM (0.097 THICK)
GALVANNEAL

SURFACE STRIKE
REINFORCING
DETAIL #19



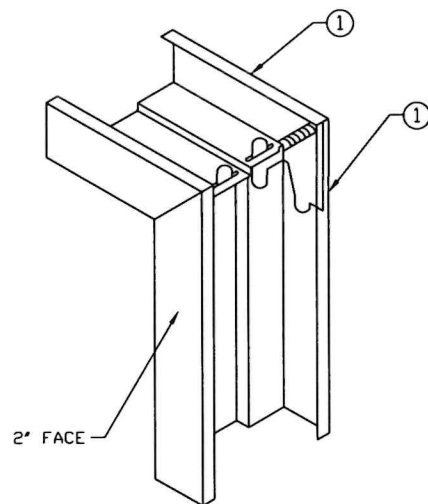
MATERIAL:
GAUGE 10 MINIMUM
GALVANNEAL

③ ④ 4 1/2" FRAME HINGE
REINFORCING
DETAIL #17



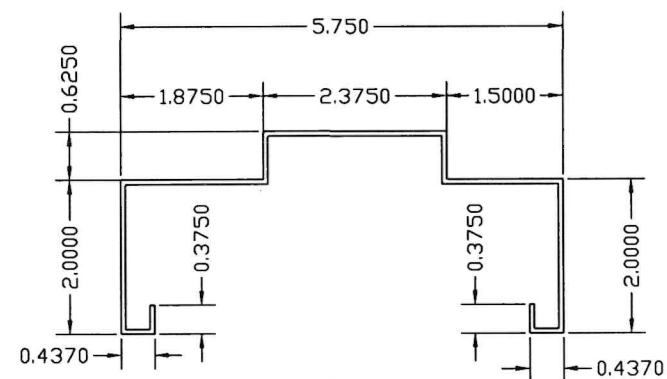
MATERIAL:
GAUGE 12 MINIMUM
GALVANNEAL

⑤ 4 7/8" STRIKE
REINFORCEMENT FOR FRAME
DETAIL #18



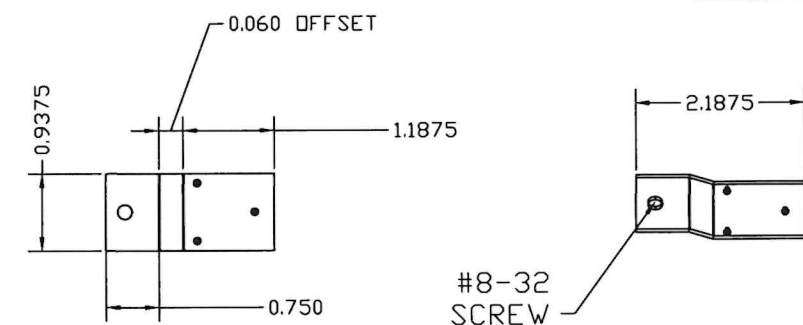
1. DIEMETERED CORNER CONT.
WELDED INSIDE FACES &
AT RETURNS
2. CAULK COMPLETE INSIDE
CORNER WITH GE SILICONE II

TYPICAL WELDED CORNER
DETAIL #16



MATERIAL:
GAUGE 16 MINIMUM (0.057)
GALVANNEAL

① AS 5 3/4" TYPICAL
SECTION THROUGH
DETAIL #15



DEAD LOCK STRIKE TAB
14 GA (0.074) MIN

ATTACHED TO STRIKE JAMB W/
(3) 1/8"Ø PROJECTION WELDS.



P.E. SEAL/SIGNATURE/DATE



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR W/SERIES "AS" STEEL FRAME

DAYBAR INDUSTRIES LTD

50 WEST DRIVE, BRAMPTON,
ON CANADA, L6T 2J4
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DATE

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SHEET 3 OF 14

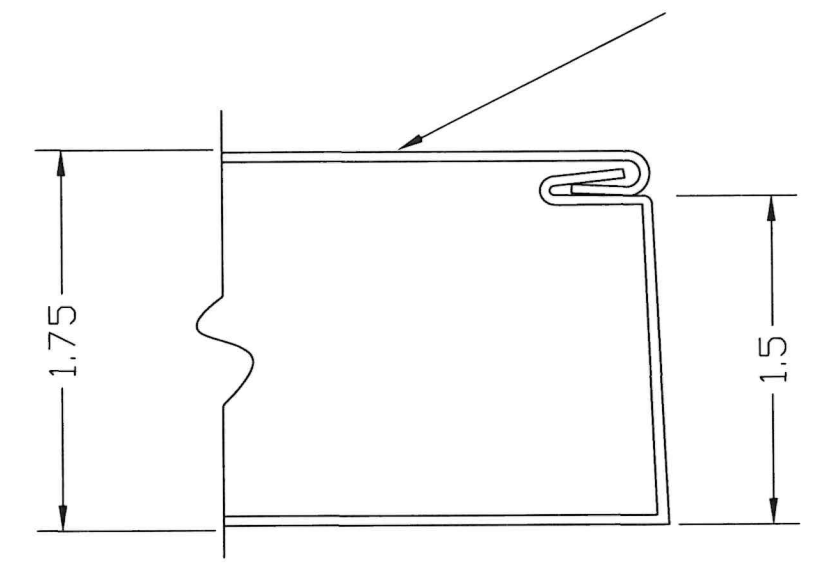
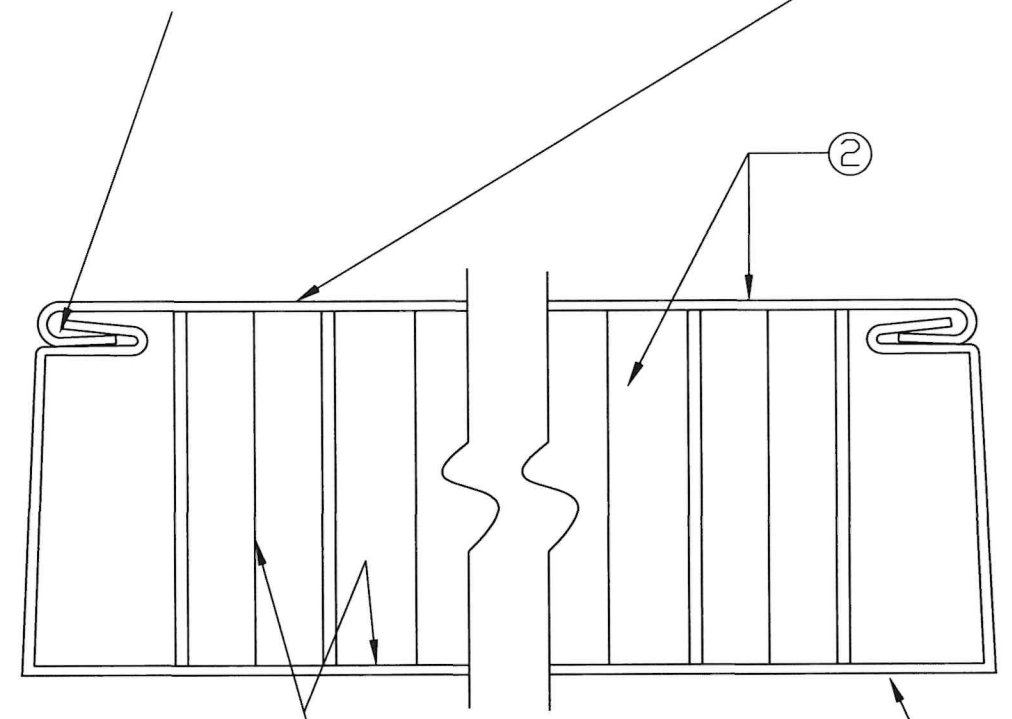
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-17B	08/07/26	3		
2			4		

LOCKSEAM FILLED WITH
HELMIPRENE # C8323-1
ADHESIVE -SEALANT

DOOR BACK OR NARROW SIDE

MATERIAL:

② 18 GAUGE = .045 MINIMUM
GALVANNEAL



3/4" CELL AXXOR (117 gr/m²) PAPER
HONEYCOMB OR APPROVED 1.5 PCF
POLYURETHANE OR 12.5 PCF MINERAL
BOARD, BONDED TO FACE SHEET WITH
CONTACT ADHESIVE HELMIBOND # 8320-1,
OR JOWATHERM 609.30 OR DURAL UH-1077

DOOR FRONT OR
WIDE SIDE

BOTH DOOR EDGES
1/8" IN 2" BEVEL

**DOOR SECTION THROUGH EDGE SEAM,
DETAIL #6**

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

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STEEL DOOR W/SERIES "AS" STEEL FRAME

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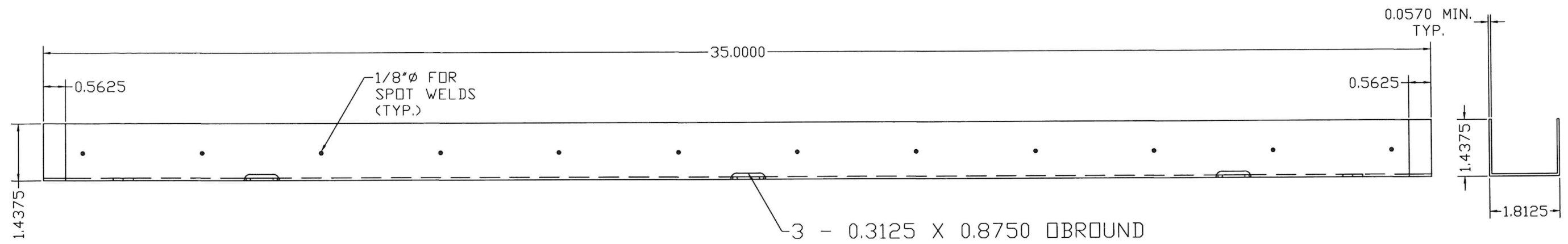
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DATE

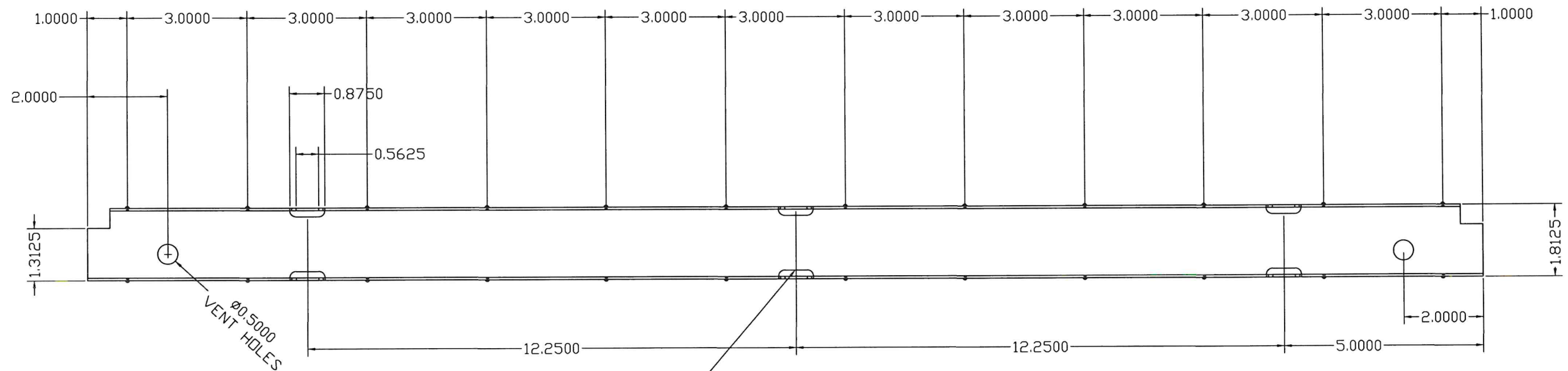
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26-247
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-17B	08/07/26	3		
2			4		



ELEVATION



PLAN

MATERIAL:
16 GAUGE (0.057) MINIMUM
GALVANNEAL

SURFACE CLOSER
FASTENING SLOTS

DOOR TOP AND BOTTOM TYPICAL END CHANNEL DETAIL #12

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SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR W/SERIES "AS" STEEL FRAME

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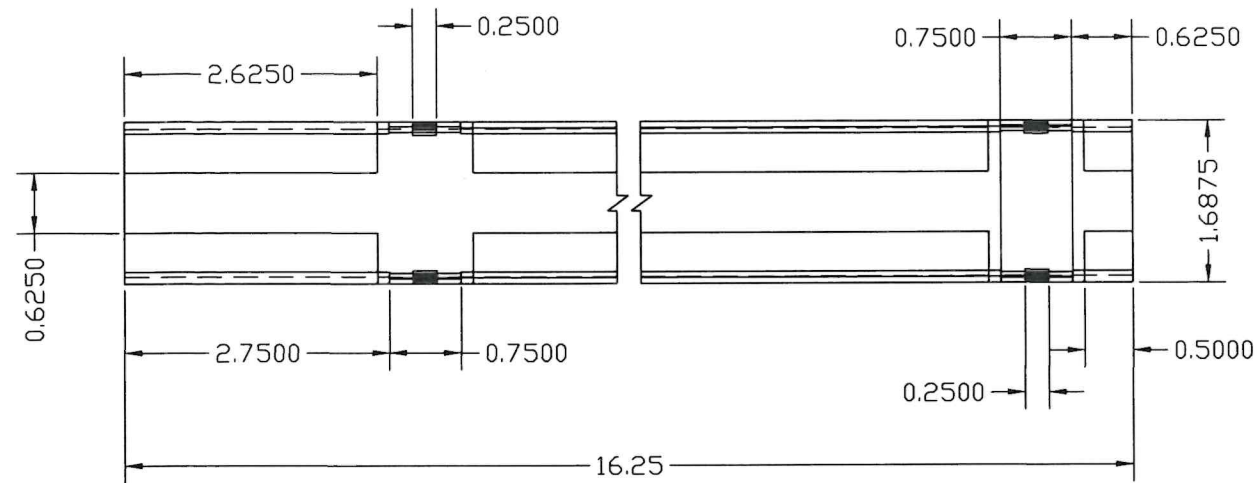
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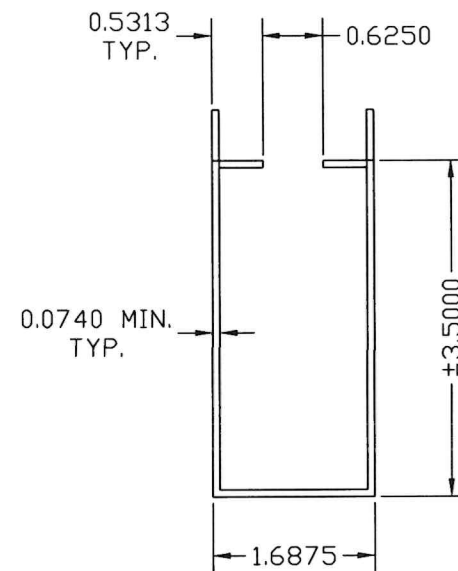
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SHEET 5 OF 14

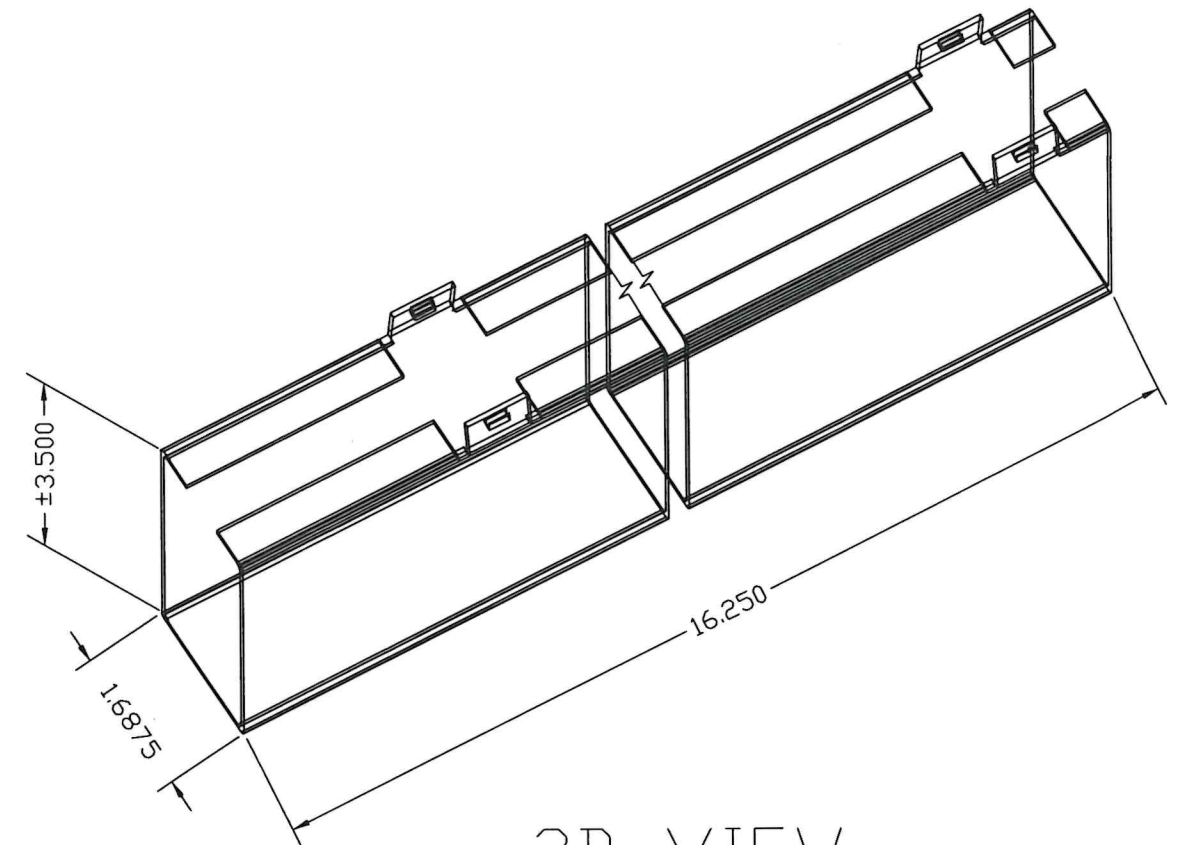


PLAN



SECTION

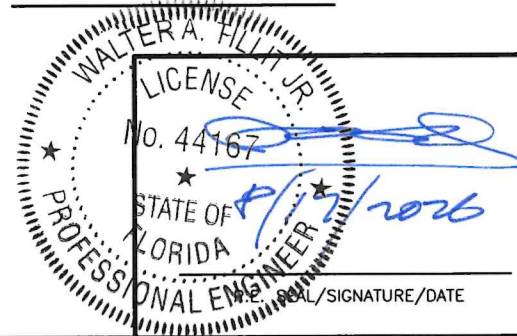
MATERIAL:
14 GAUGE (0.074)
MINIMUM GALVANNEAL



3D VIEW

DOOR SURFACE CLOSER REINFORCING DETAIL #11

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SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR W/SERIES "AS" STEEL FRAME

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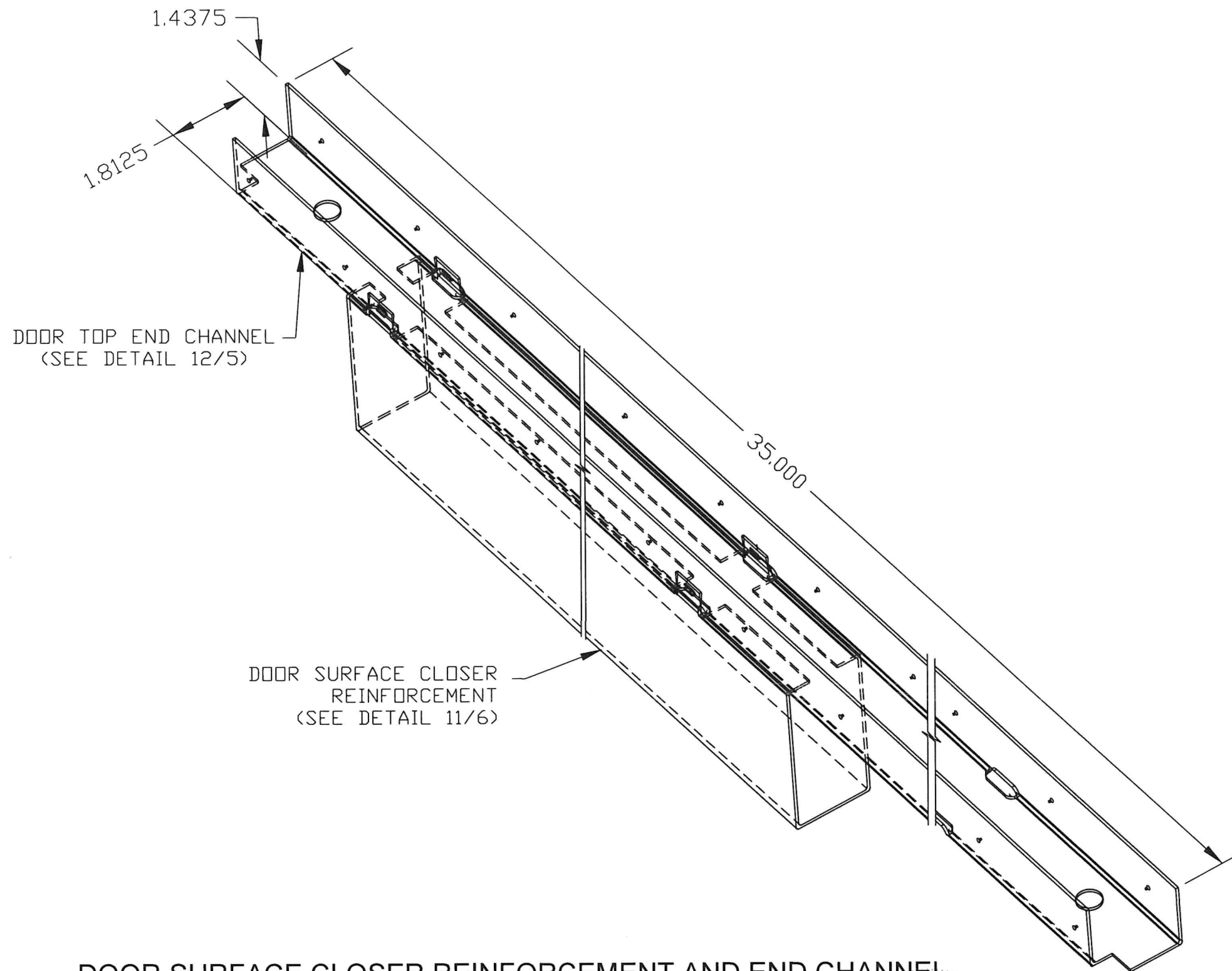
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W.H.

08/07/2026
DATE

26-247
DRAWING No

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

SHEET 6 OF 14



**DOOR SURFACE CLOSER REINFORCEMENT AND END CHANNEL
ASSEMBLY DETAIL #13**

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

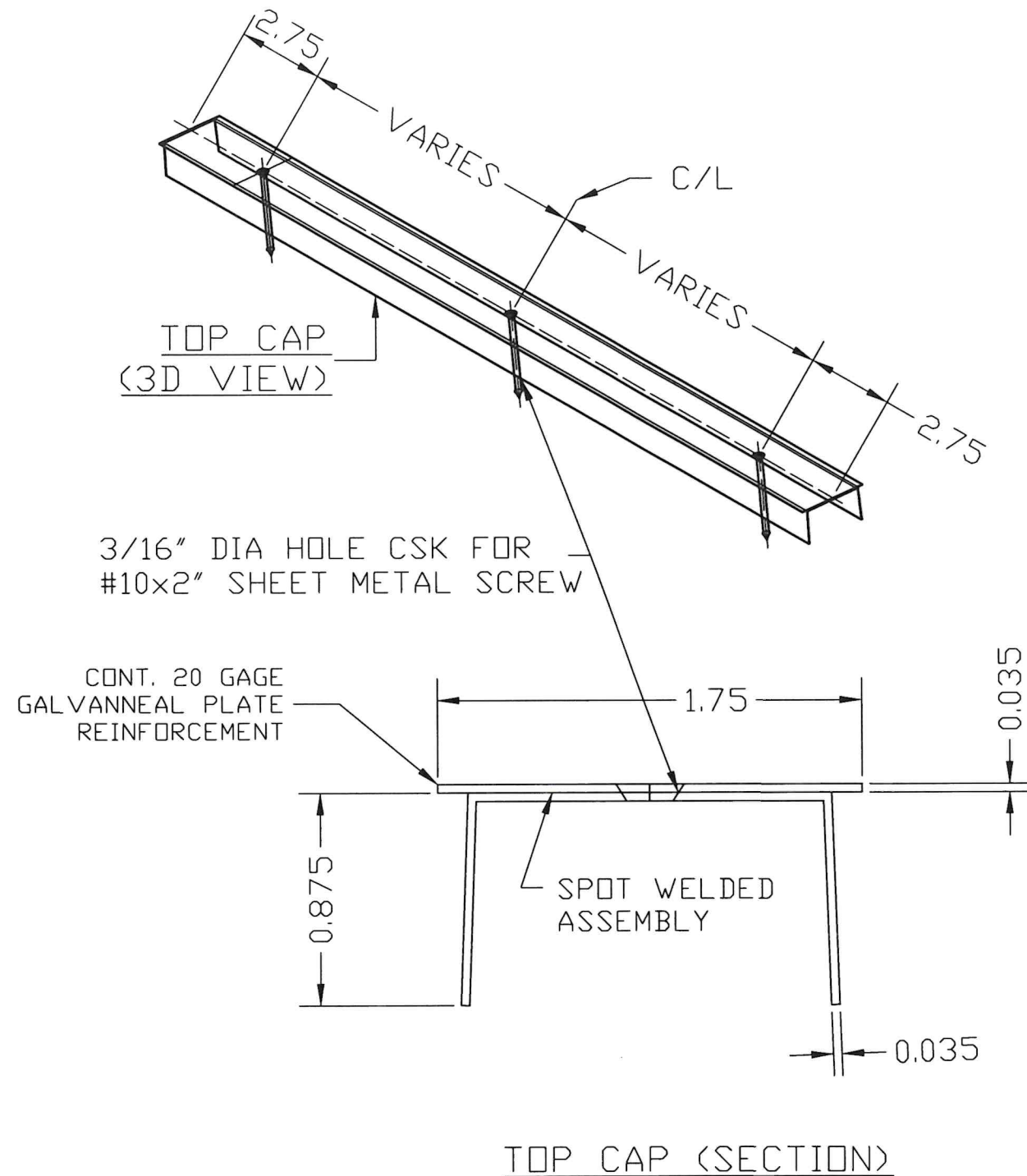


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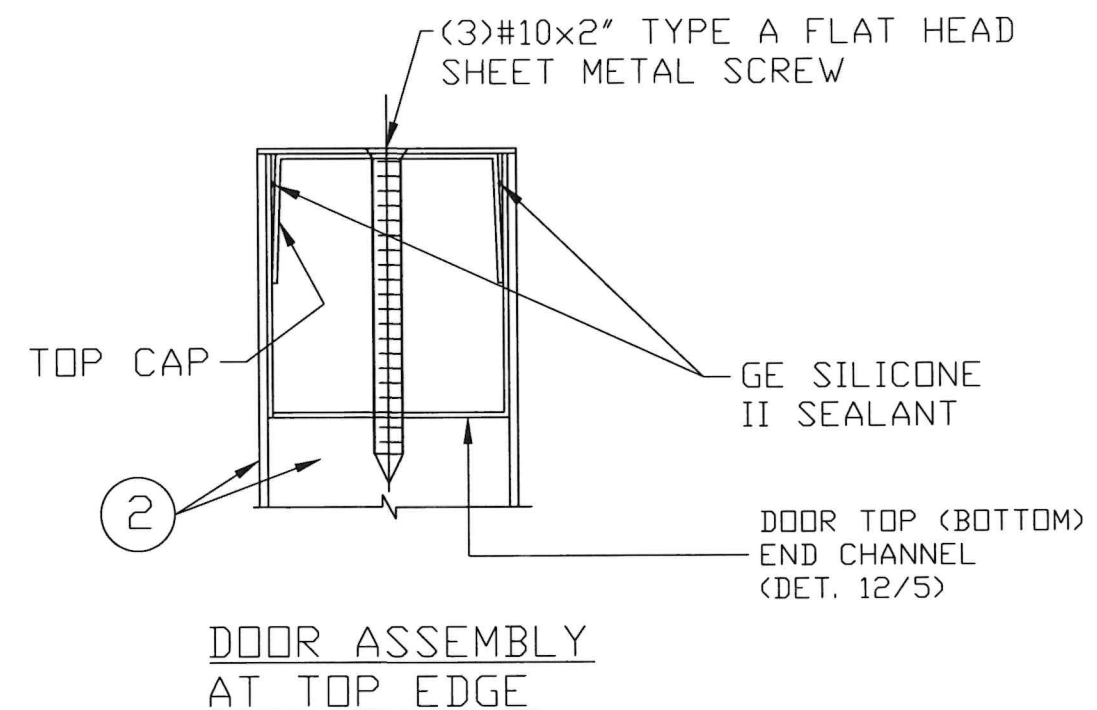
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SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" STEEL FRAME					DRAWN BY: W.H.	
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204					08/07/2026 DATE	
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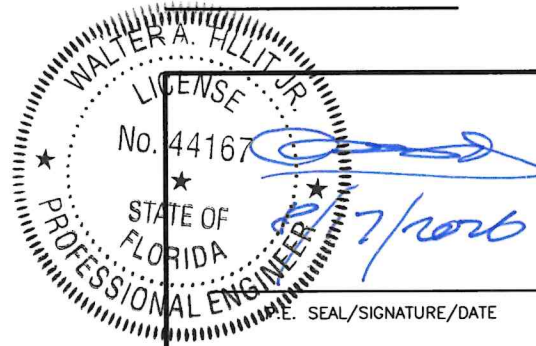


NOTE:
MATERIAL 20 GAUGE
(0.035) MINIMUM
GALVANNEAL

INSTALLATION:
APPLY BEAD OF GE SILICONE II SEALANT
TO INSIDE-TOP EDGE OF DOOR.
PRESS FIT TOP CAP INTO DOOR
TOP CHANNEL & SCREW FASTEN



PAGE #8 DOOR STEEL TOP CAP DETAIL #14



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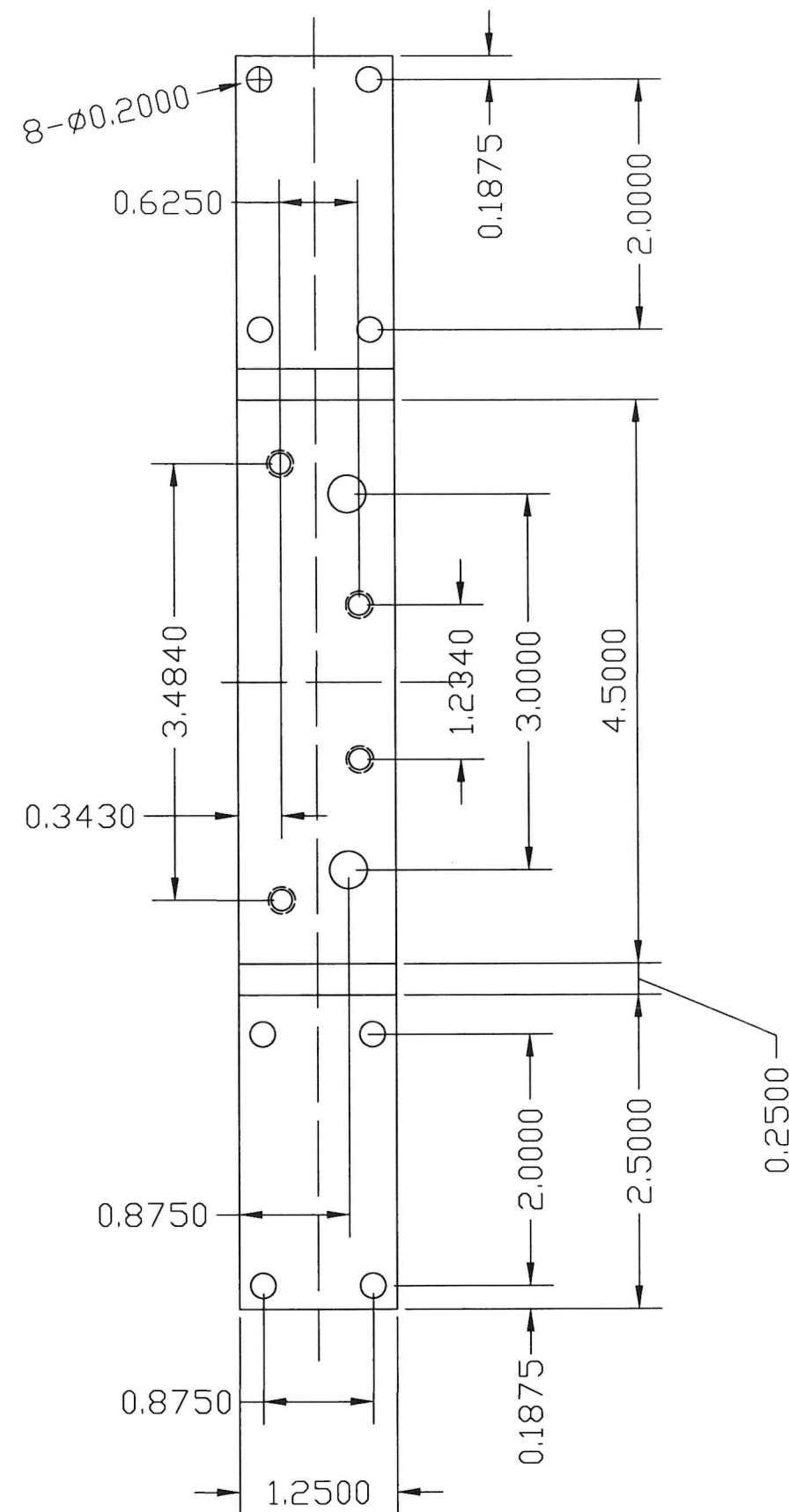
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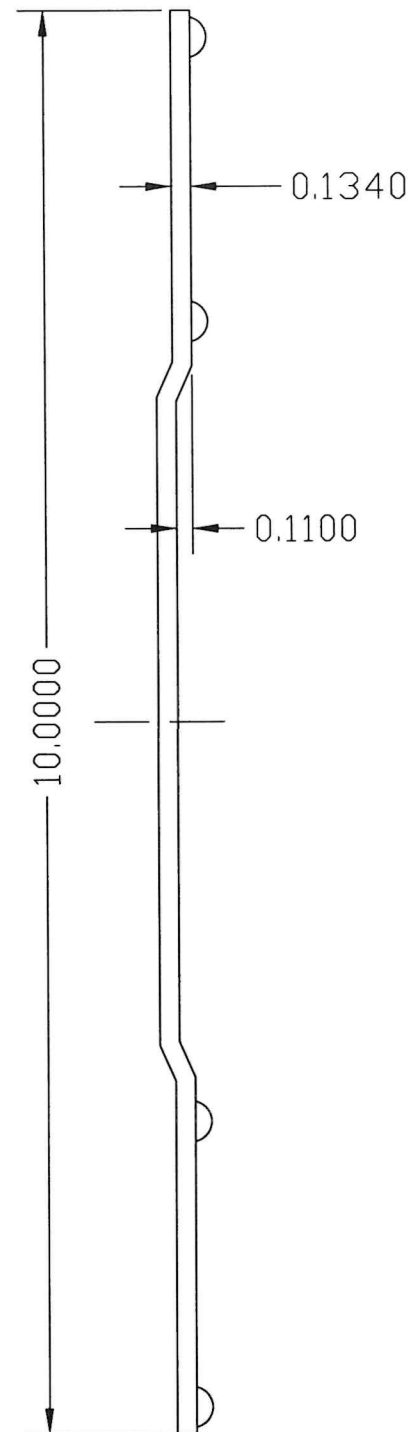
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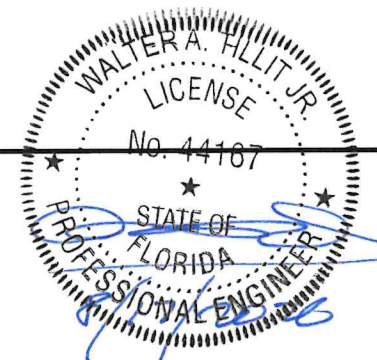
SHEET 8 OF 14



DOOR HINGE REINFORCING.



MATERIAL:
GAUGE 10 MINIMUM
GALVANNEAL



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SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR W/SERIES "AS" STEEL FRAME

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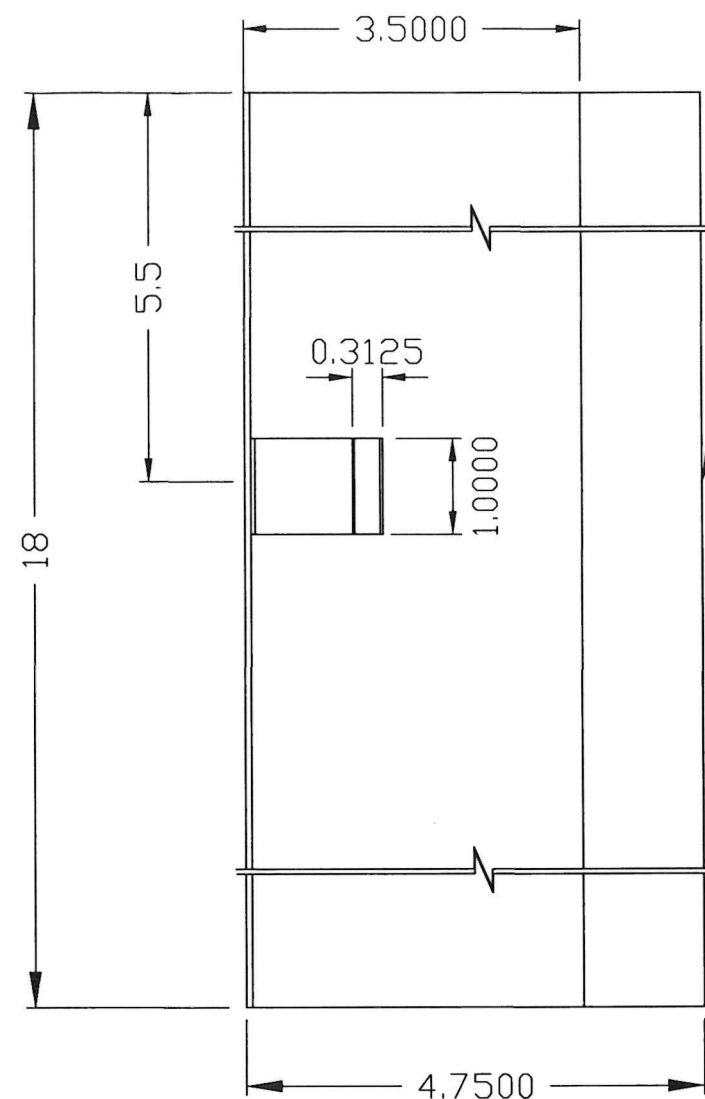
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TEL: 905 625-8000
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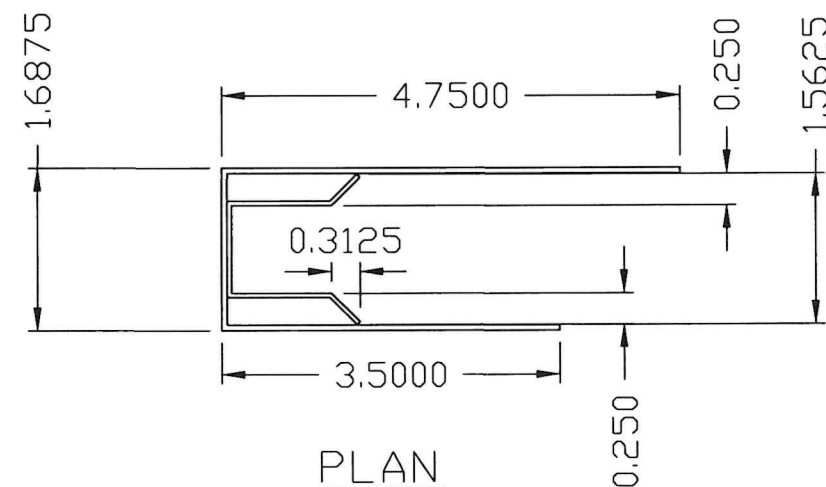
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DRAWING No

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SHEET 9 OF 14



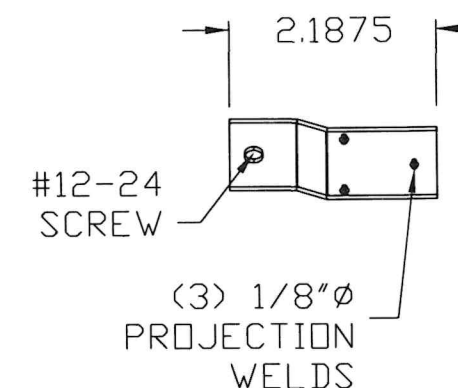
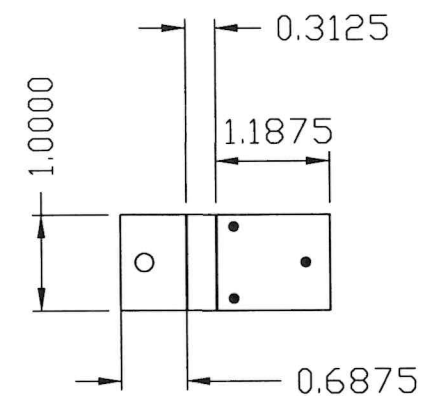
ELEVATION



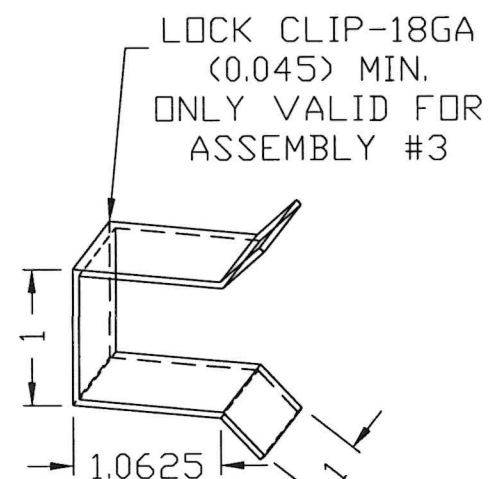
PLAN

GAGE 14 (0.074) MINIMUM
RP REINFORCING SAME AS #86.
LESS LOCK CLIP & MOUNTING
TABS

MATERIAL: ALL GALVANNEAL

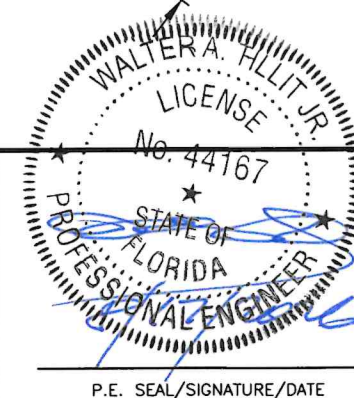


DOOR EDGE MOUNTING TAB
14 GA (0.074) MIN



LOCK CLIP-18GA
(0.045) MIN.
ONLY VALID FOR
ASSEMBLY #3

ANSI #A115.1 #86 MORTISE LOCK, RP REINFORCINGS
DETAIL #9



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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR W/SERIES "AS" STEEL FRAME

DAYBAR INDUSTRIES LTD

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

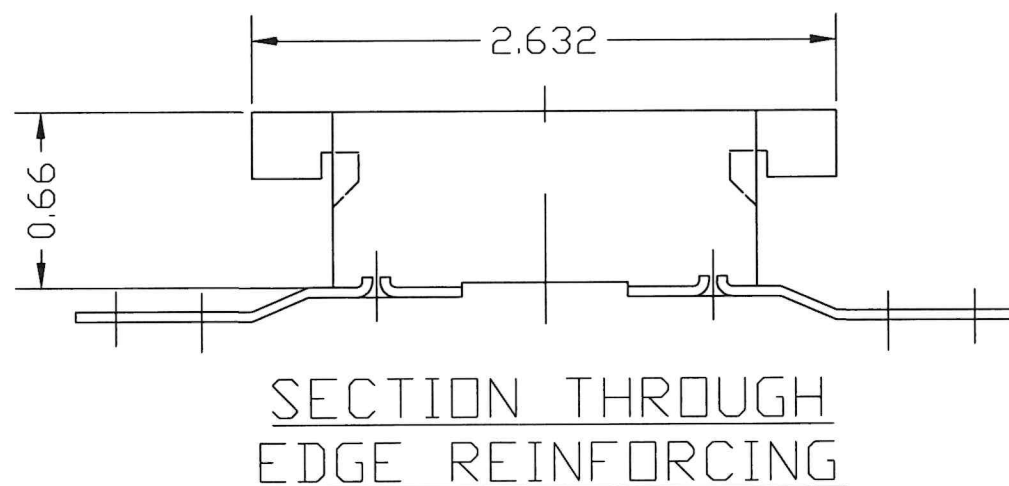
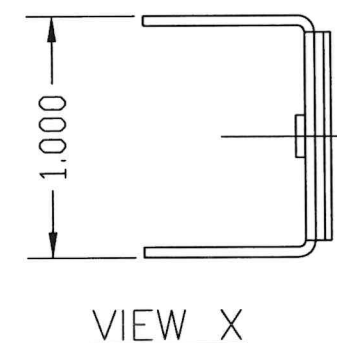
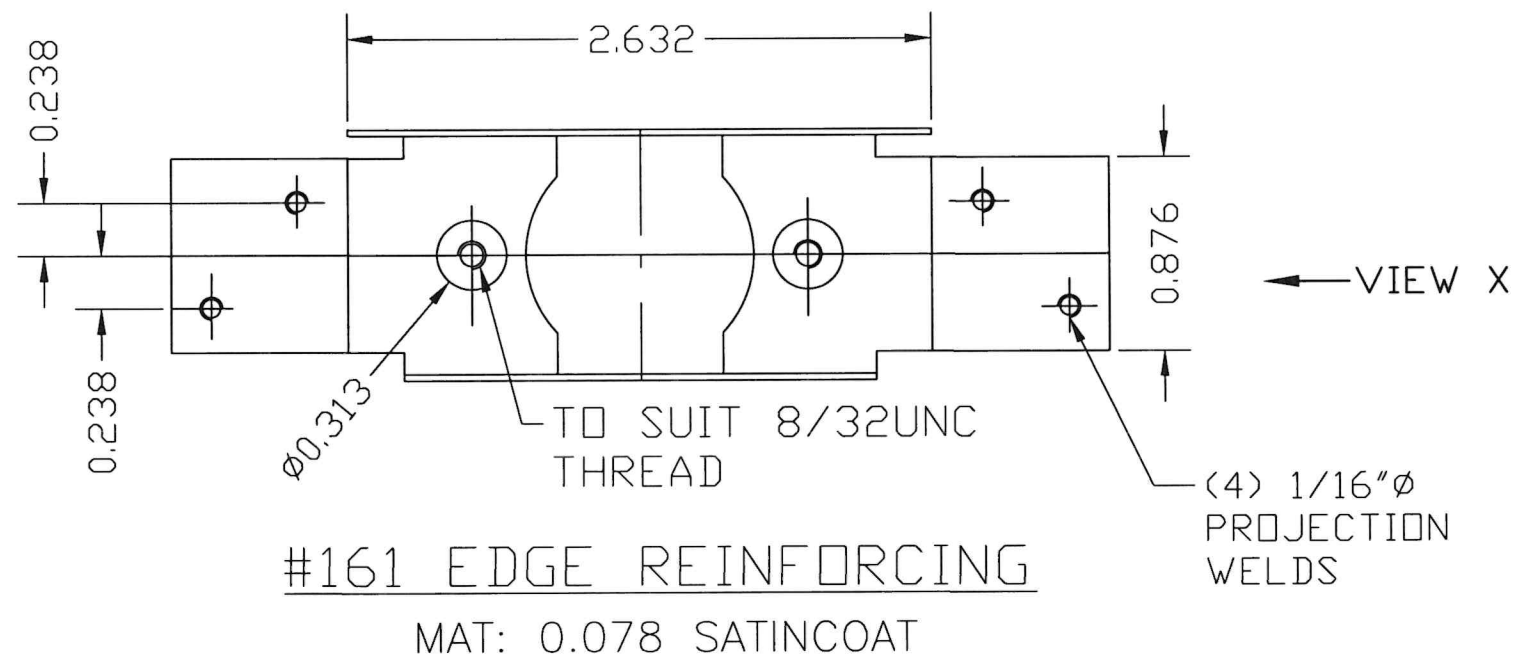
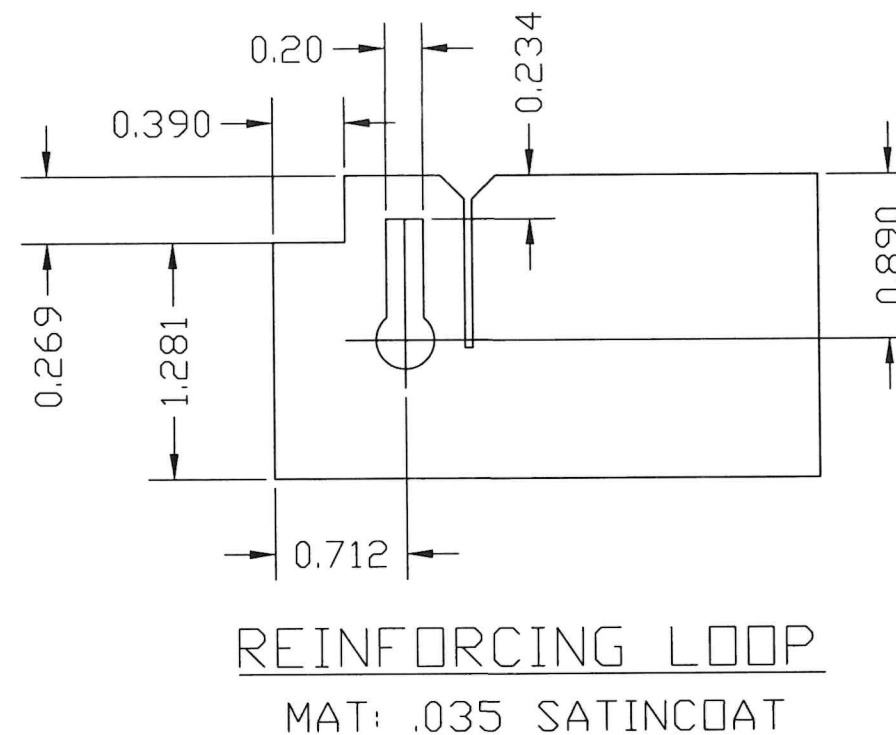
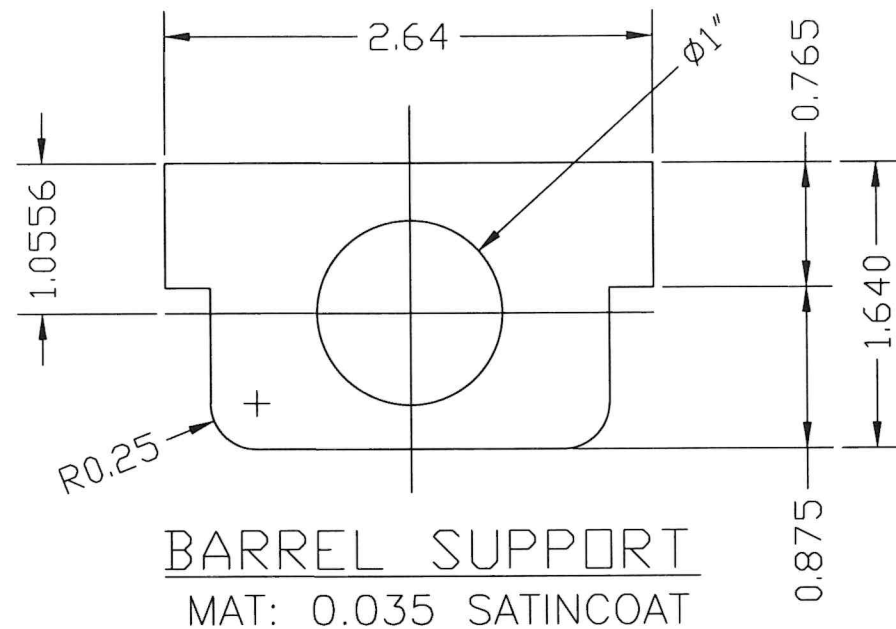
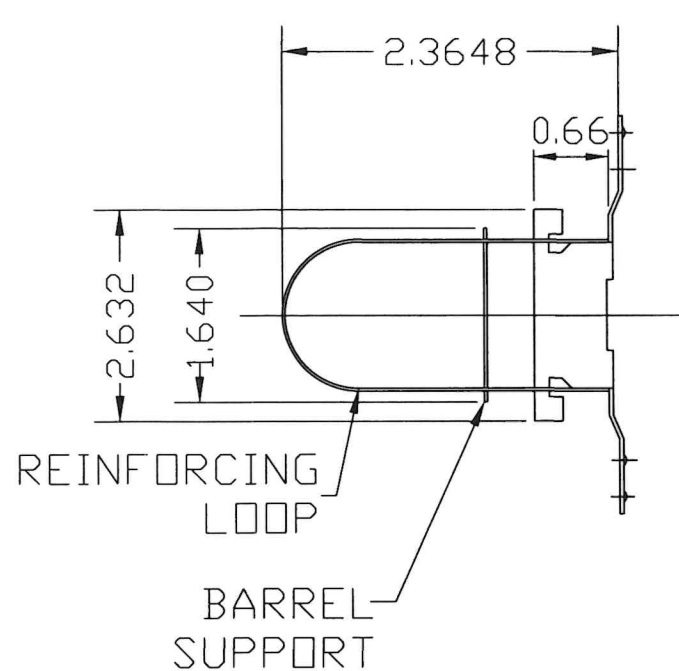
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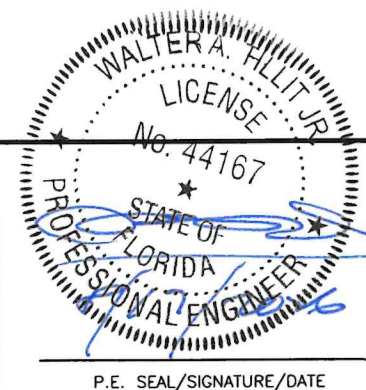
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1	OLD 23-17B	08/07/26	3		
2			4		

SHEET 10 OF 14



#161 LOCK, REINFORCINGS DETAIL #8



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SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR W/SERIES "AS" STEEL FRAME

DAYBAR INDUSTRIES LTD

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ON CANADA, L5T 2J4
TEL: 905 625-8000
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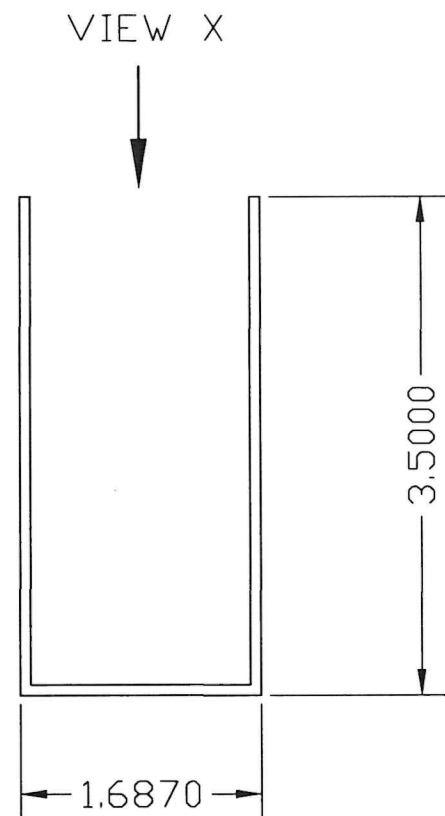
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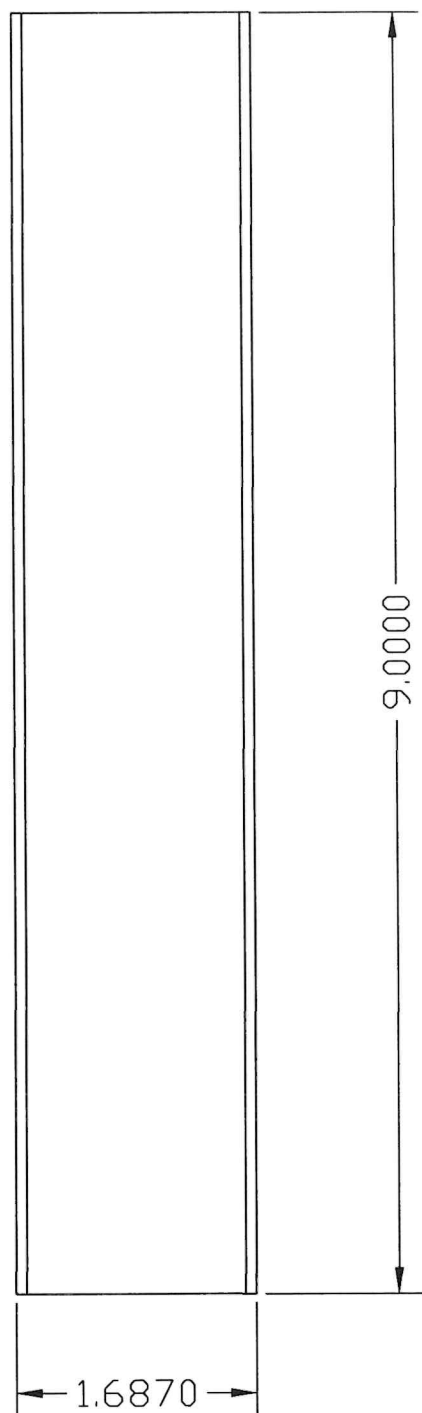
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SHEET 11 OF 14

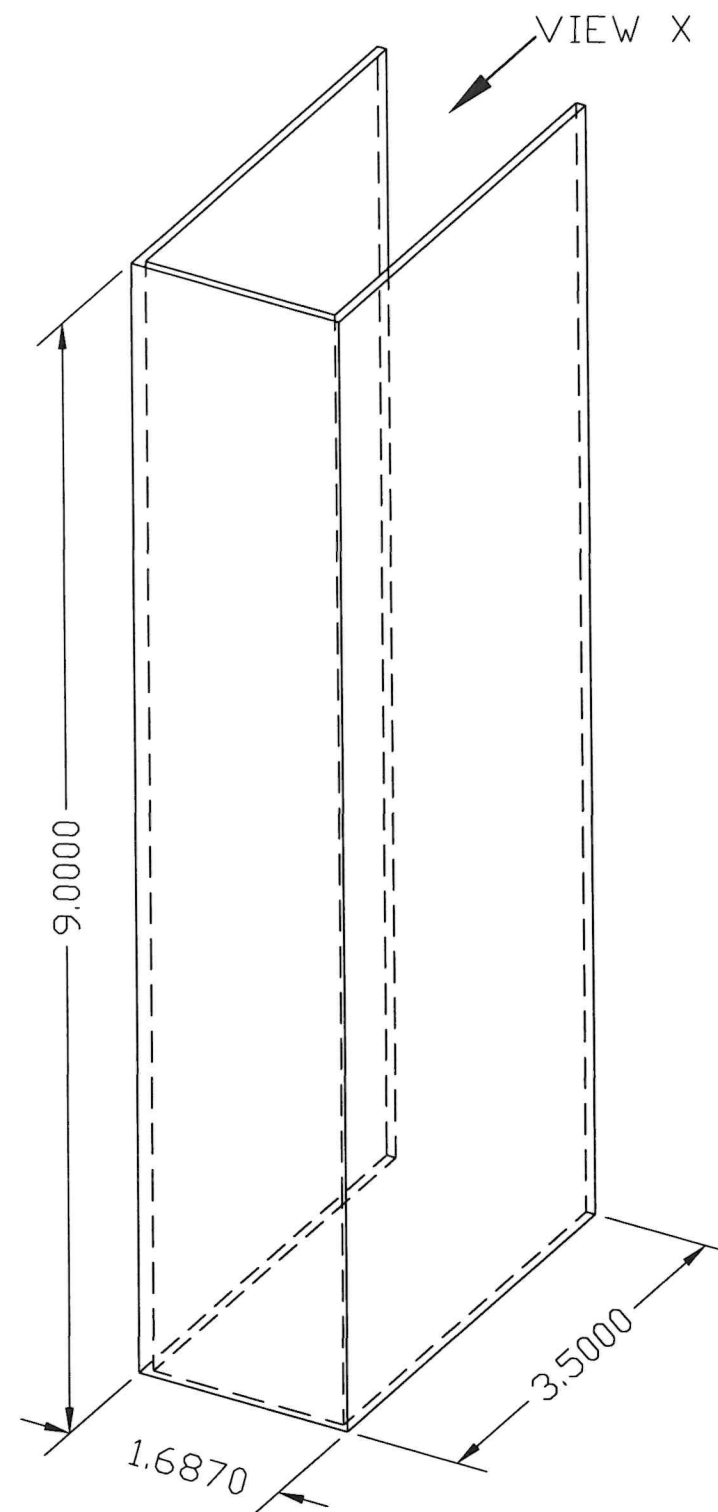


PLAN

MATERIAL:
14 GAUGE (0.074) MINIMUM
GALVANNEAL, GLUED TO
DOOR AT HEAD & SILL
USING HEMILBOND 8320-1
CONTACT ADHESIVE.

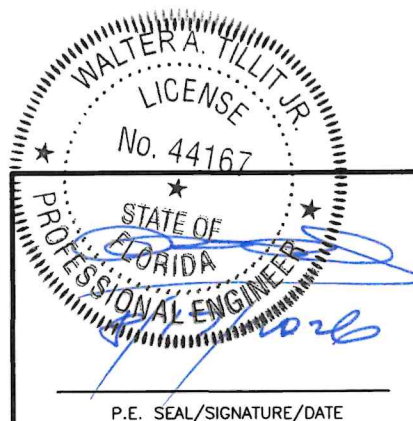


VIEW X



3D VIEW

**PAGE #12 RIM PANIC SURFACE BOLT REINFORCINGS
DETAIL #10**



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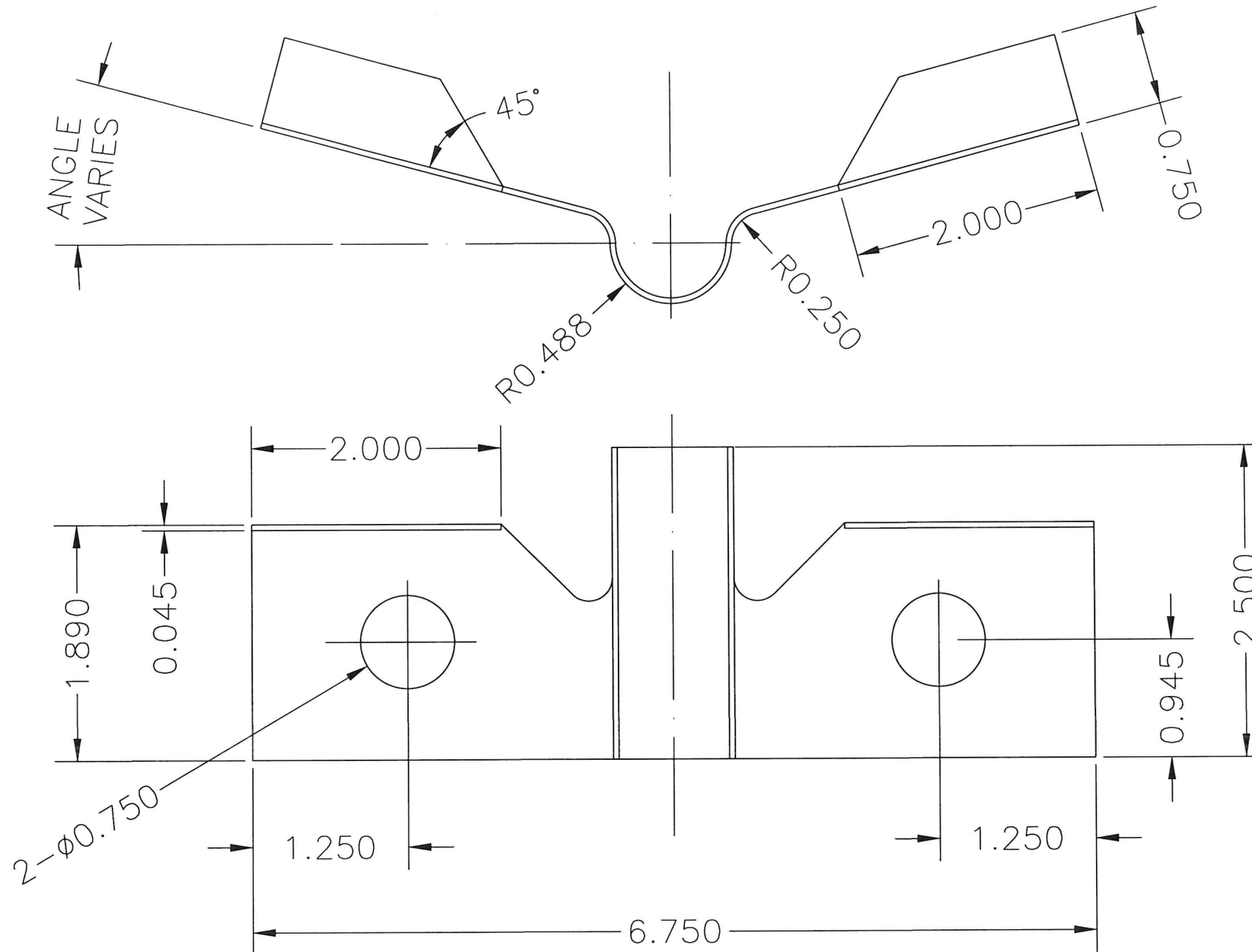
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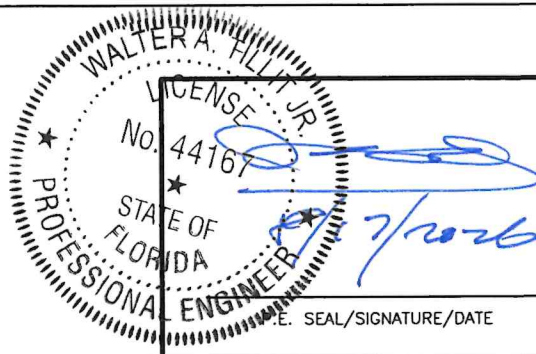
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SHEET 12 OF 14



MATERIAL:
18 GA SATIN COAT

EMA BUTTERFLY ANCHOR



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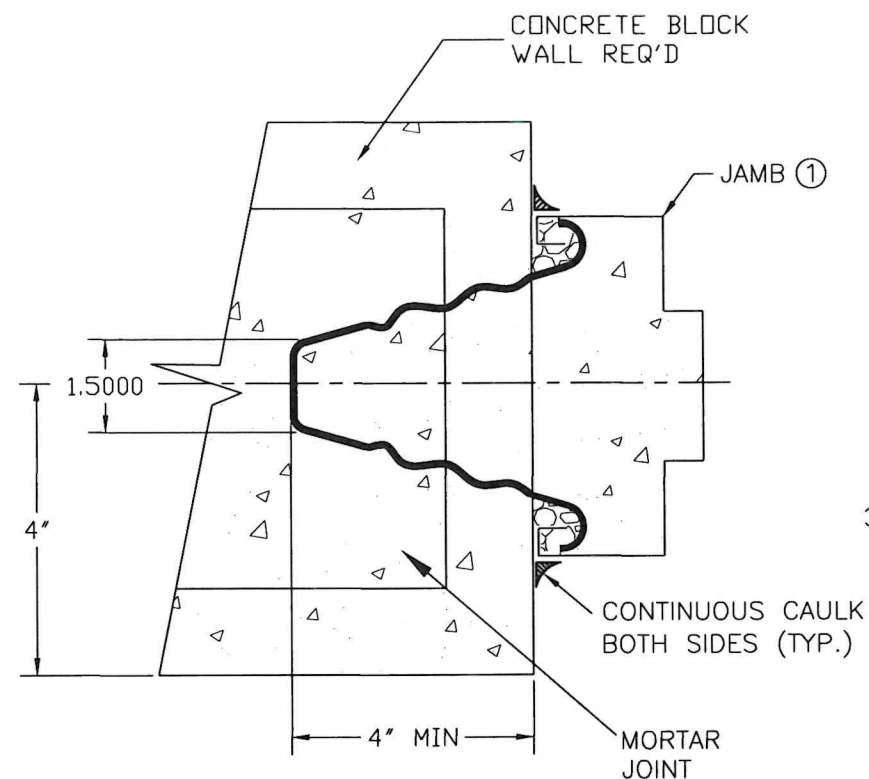
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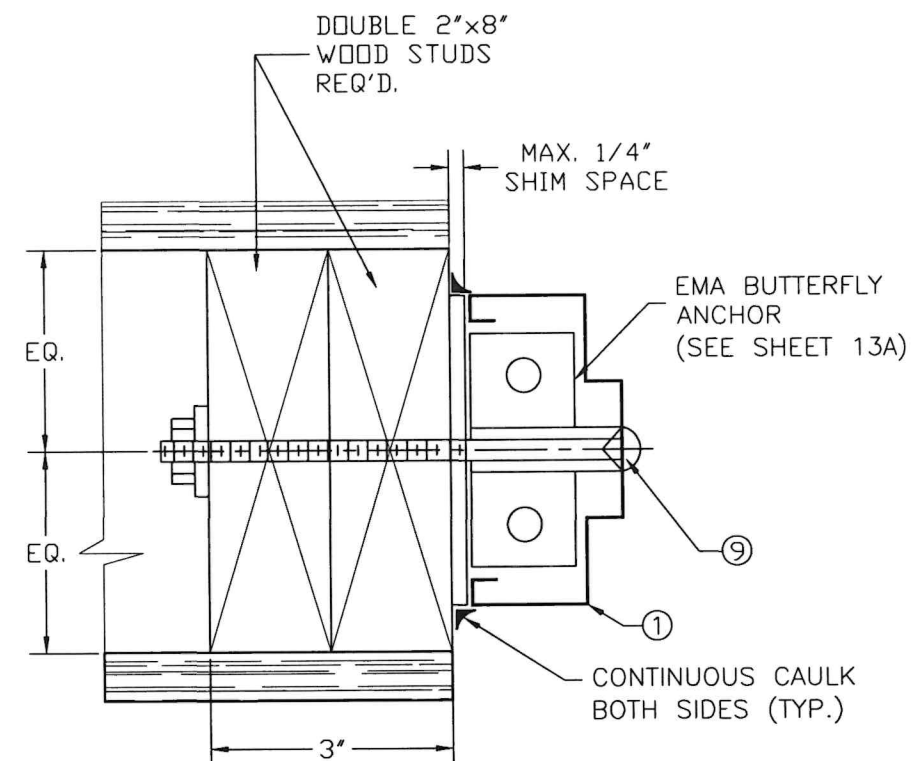
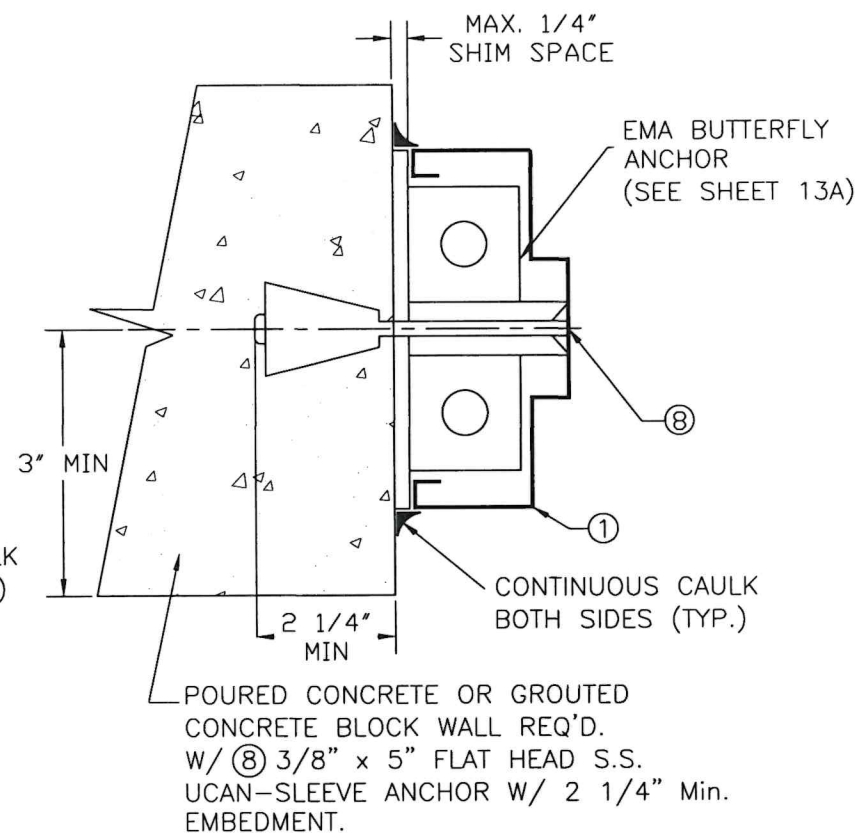
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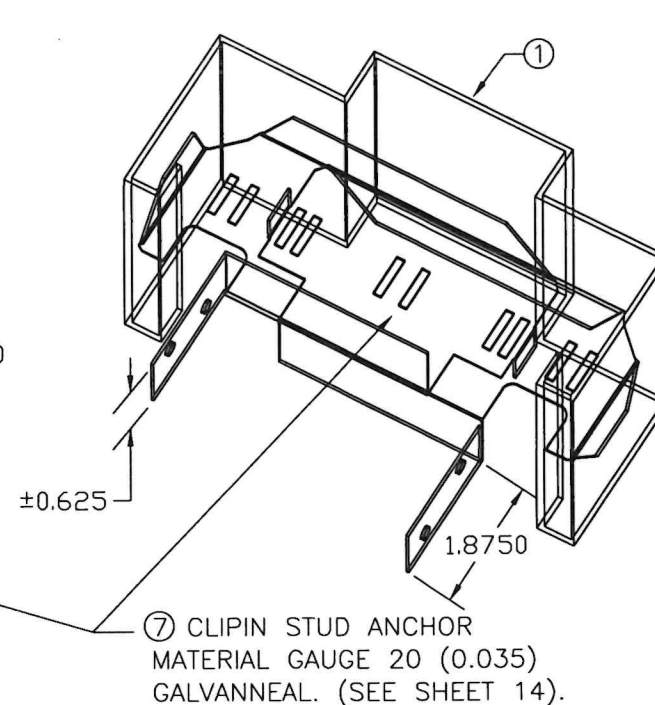
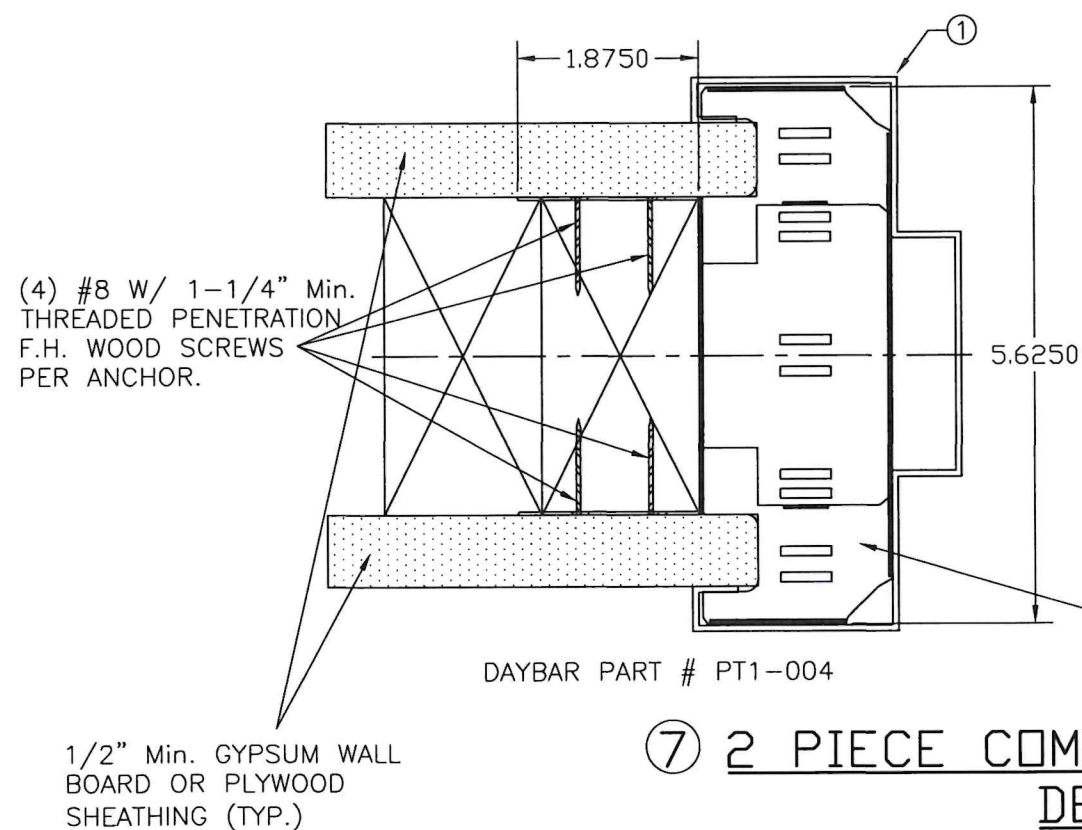
SHEET 13A OF 14



⑥ MASONRY WIRE ANCHORS (0.157" DIA,
9 1/2" LONG) IN HORIZ. MORTAR JOINTS;
FILL JAMBS ① SOLID WITH MORTAR
"DAYBAR # PT1-001"

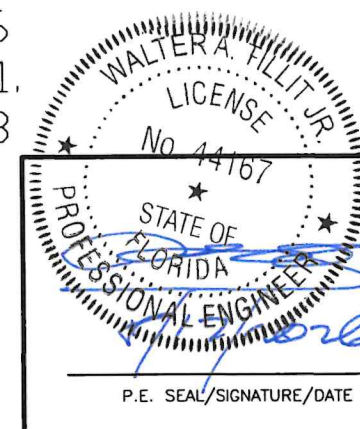


WOOD BUCK
(MIN. 2" X 8" NOMINAL)
(8) 3/8"-16 X 6" 304 S.S. OR GALV.
STL(1000 hrs, 5% RUST) CARRIAGE
BOLT C/W NUT AND WASHER



NOTES:

3 ANCHORS REQUIRED PER JAMB, 6
PER FRAME FOR DETAILS #20 & 21.
4 ANCHORS REQUIRED PER JAMB, 8
PER FRAME FOR DETAIL #22.



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SERIES LS18 FLUSH OUTSWING COMMERCIAL
STEEL DOOR W/SERIES "AS" STEEL FRAME

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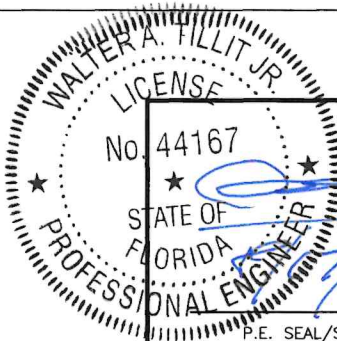
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2			4		

SHEET 13 OF 14

BILL OF MATERIALS:

ITEM	QUANTITY	MATERIAL	BASIC DIMENSIONS OR ADDITIONAL DETAILS
1	1	16 GAUGE WELDED FRAME	AS 5 3/4" JAMB DEPTH X 2" FACE X .057 MIN
2	1	18 GAUGE FLUSH DOOR COMMERCIAL STEEL	1 3/4" THICK X (.045 MIN). C/W 3/4" AXXOR (117 gr/m2) PAPER HONEYCOMB OR APPROVED 1.5 PCF POLYURETHANE OR 21.5 PCF MINERAL BOARD CORE. (SEE SHEET 2).
3	3	HINGE REINFORCINGS (DOOR)	1 1/4" X 10" X 10 GAUGE (.135 MIN)
4	3	HINGE REINFORCINGS (FRAME)	1 1/2" X 8 3/4" X 10 GAUGE (.135 MIN)
5	1	STRIKE REINFORCINGS (FRAME)	1 3/8" X 7 5/16" X 14 GAUGE (.072 MIN)
6	6	WIRE MASONRY FRAME ANCHORS (3 PER JAMB) (OR)	9 1/2" LONG X 10 GAUGE (.135 MIN)
7	6	CLIPIN STUD ANCHORS (3 PER JAMB) (OR)	1 7/8" X 5 5/8" X 20 GAUGE (.035 MIN) MUST COMPLY W/ F.B.C. SECTIONS 1711.1.2.1, 1711.1.2.2 OR 1711.1.2.3 AS APPLICABLE.
8	6	EMA ANCHOR BOLTS (4 PER JAMB) (OR)	3/8" X 5" S.S. U-CAN SLEEVE ANCHOR
9	6	CARRIAGE ANCHOR BOLTS (4 PER JAMB) (OR)	3/8"-16 X 6" STEEL CARRIAGE BOLT SEE SHEET 13 FOR SPECS.
10	3	HINGES-HAGER BB1191	4.5" X 4.5" STANDARD WEIGHT (.134 THICK)
11	1	RIM EXIT: DETEX VALUE SERIES C/W OPTIONAL ALARM	N/A
12	1	MORTISE LOCK: MARKS SERIES 5	N/A
13	1	CYLINDRICAL LOCK: MARKS SERIES 170 GRADE #1	N/A
14	1	DEAD BOLT: MARKS SERIES 130	N/A
15	1	WEATHER STRIP: NATIONAL GUARD PRODUCTS #120NA	SECURED WITH #6 X 1/2" SMS SCREWS
16	1	THRESHOLD: NATIONAL GUARD PRODUCTS #950NA	EXTRUDED ALUMINUM
17	1	CAULKING: GE SILICONE II	N/A



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SHEET 14 OF 14