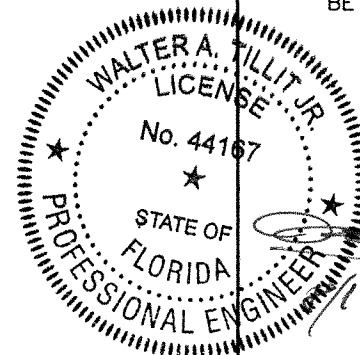


SHEETS CONTENT:

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)
PAGE #11 #161 LOCK, REINFORCINGS, (DETAIL #8)
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



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 **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 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.
MAXIMUM ANCHORS SPACINGS 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.

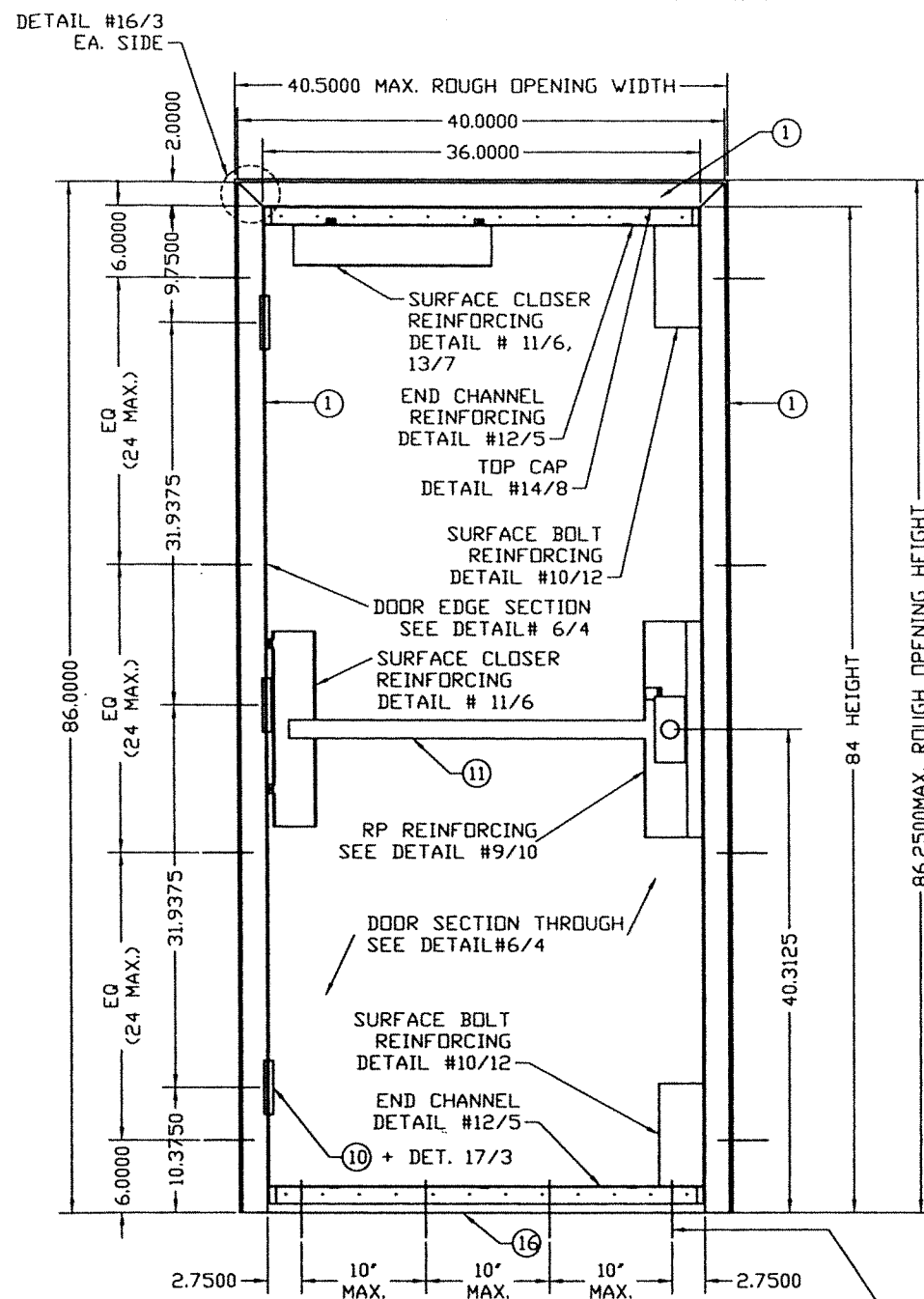
(c) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(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.

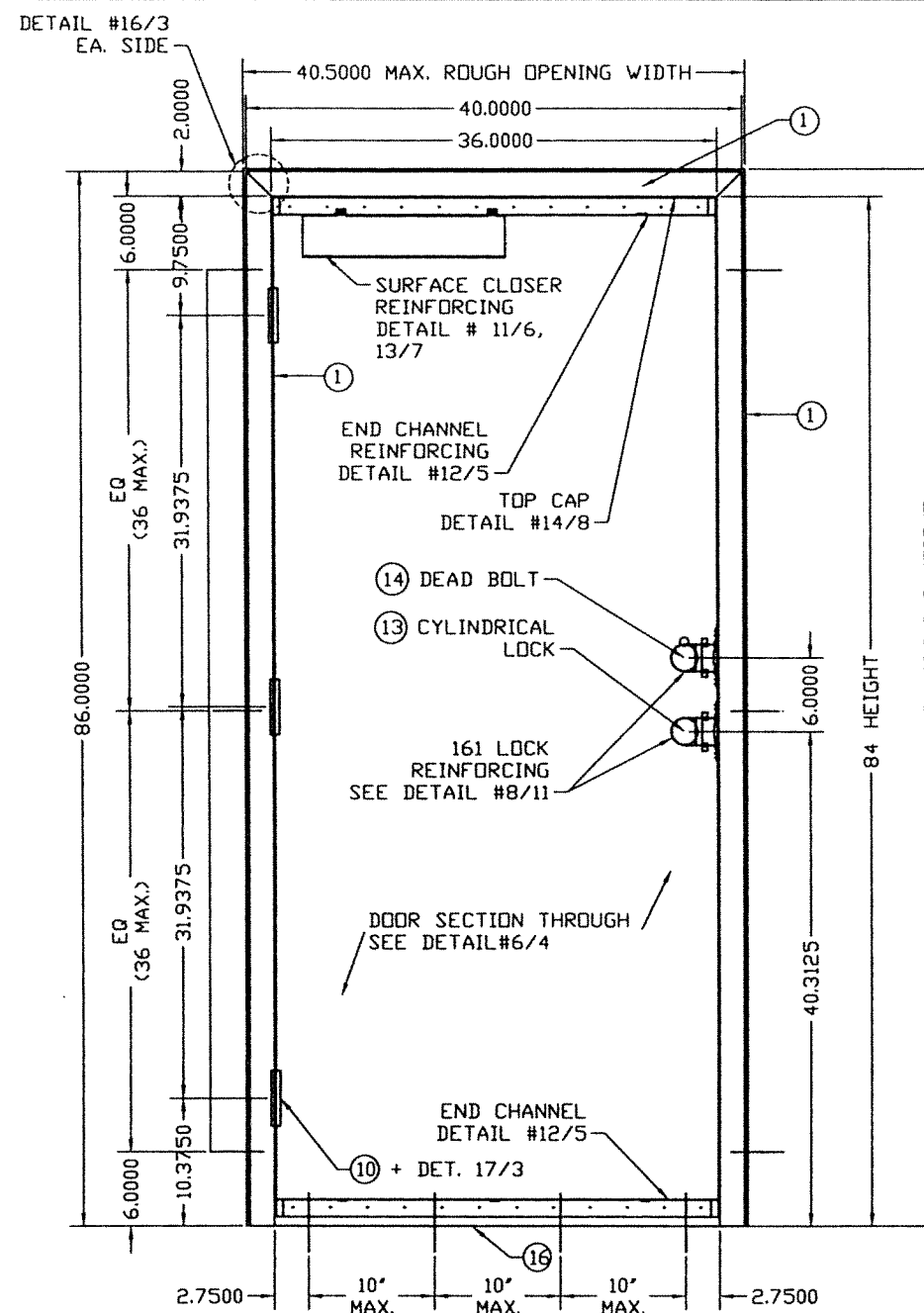
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC.		SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" STEEL FRAME		DRAWN BY: Y.M.	
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		08/17/2023 DATE	
REV. No		DESCRIPTION		DATE	
1		OLD 20-152		08/17/23	
2					
				23-178 DRAWING No	
				SHEET 1 OF 14	

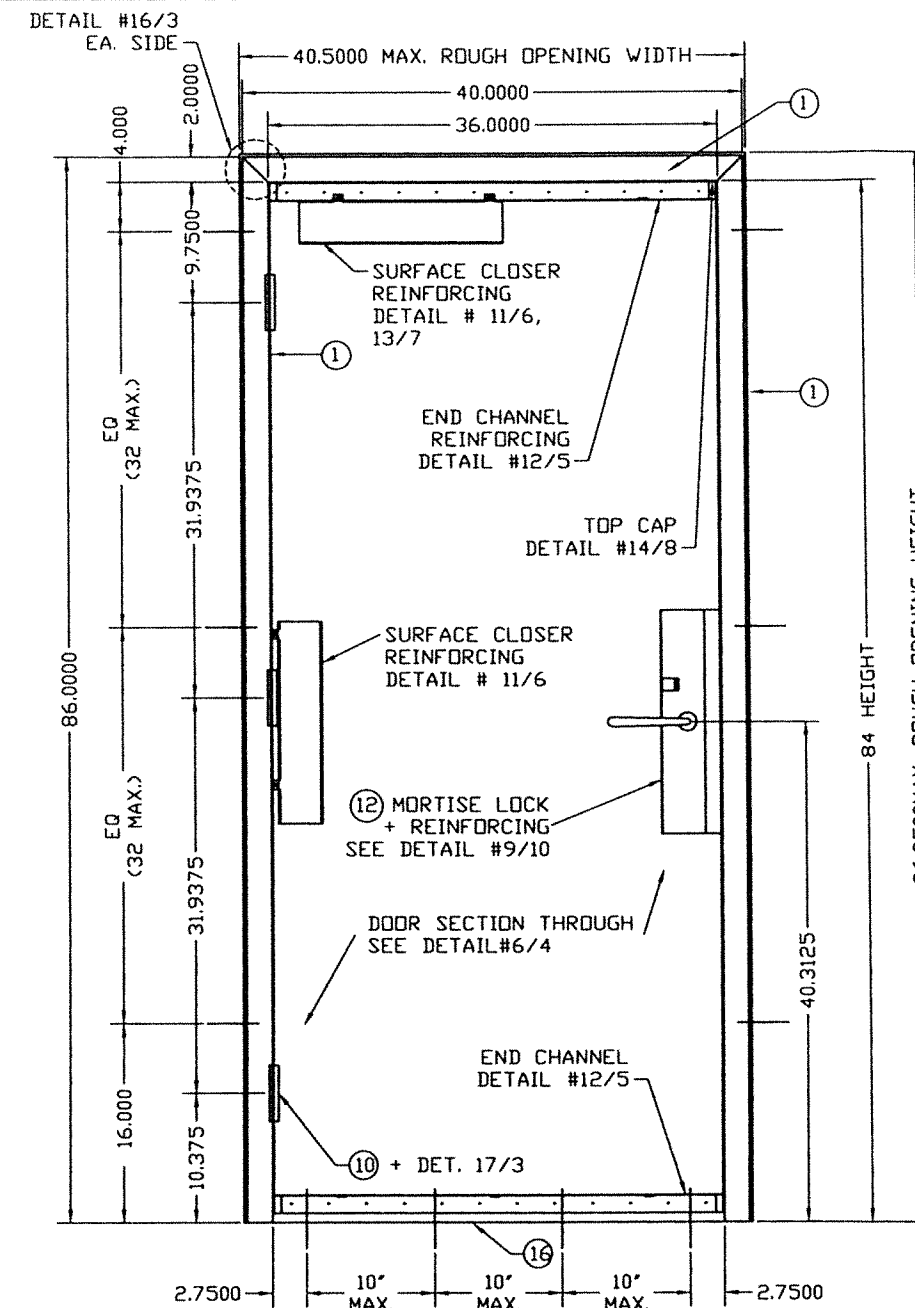


ASSEMBLY #1 ELEVATION SINGLE
DOOR EXTERIOR VIEW (OUTSWING)
WALL CONDITION - EXISTING MASONRY
OR WOOD STUD WALL
ANCHOR: E.M.A. DETAIL #22
DETEX RIM EXIT DEVICE

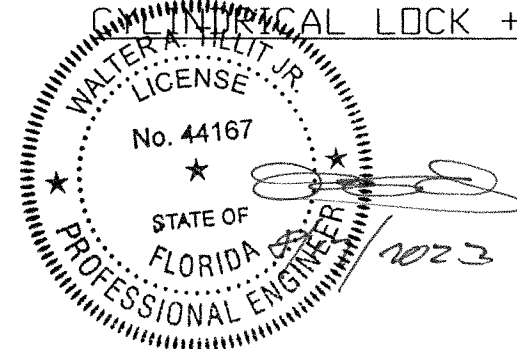
TAPCONS OR S.M.S.
OR WOOD SCREWS
(SEE SHEET 2)



ASSEMBLY #2 ELEVATION
SINGLE DOOR EXTERIOR VIEW
(OUTSWING)
WALL CONDITION - WOOD STUD
ANCHOR: 2PC CLIP-IN DETAIL #20
CYLINDRICAL LOCK + DEAD BOLT



ASSEMBLY #3 ELEVATION SINGLE
DOOR EXTERIOR VIEW (OUTSWING)
WALL CONDITION - MASONRY
ANCHOR: WIRE DETAIL #21
MORTISE LOCK.



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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

DRAWN BY:
Y.M.

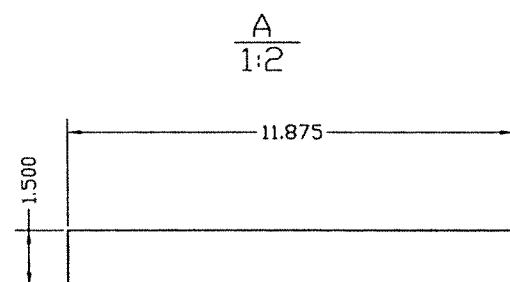
DAYBAR INDUSTRIES LTD

08/17/2023
DATE

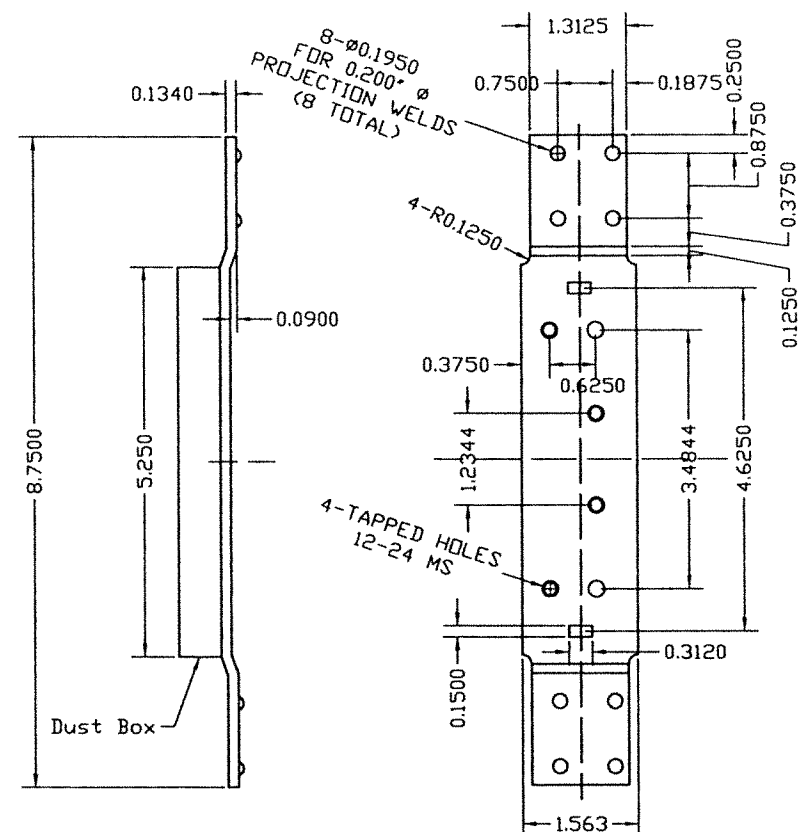
23-178
DRAWING No

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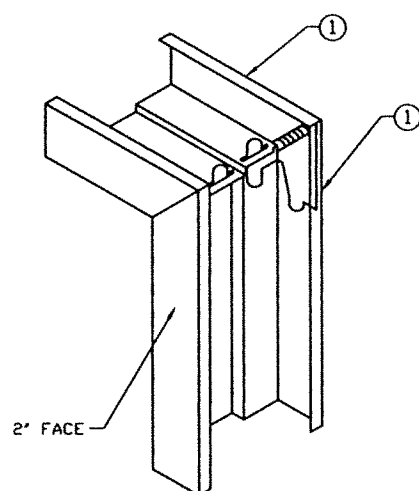
SHEET 1A OF 14



SURFACE STRIKE
REINFORCING
DETAIL #19

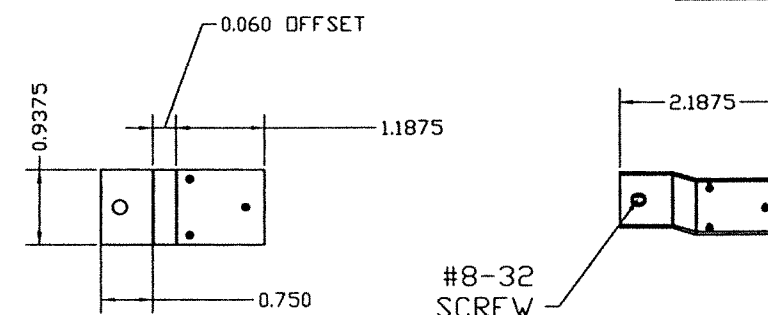
[illegible]

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



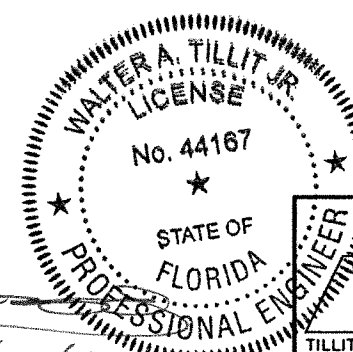
-
- Technical drawing of a stepped profile with the following dimensions:
- Overall width: 5.750
 - Overall height: 2.0000
 - Top horizontal segments: 1.8750, 2.3750, 1.5000
 - Vertical segments: 0.6250 (left), 0.3750 (right)
 - Bottom horizontal segments: 0.4370 (left), 0.4370 (right)

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

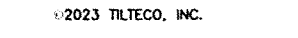


DEAD LOCK STRIKE TAB
14 GA (0.074) MIN

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



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)



TILTIT TESTING & ENGINEERING COMPANY
 6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33168
 Phone : (305)871-1530 . Fax : (305)871-1531
 e-mail: tiltco@aol.com
 CA-0006719
 WALTER A. TILIT Jr. P.E.
 FLORIDA Lic. # 44167

**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

DRAWN BY:
Y.M.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-152	08/17/23	3		
2			4		

08/17/2023
DATE

23-178
DRAWING No

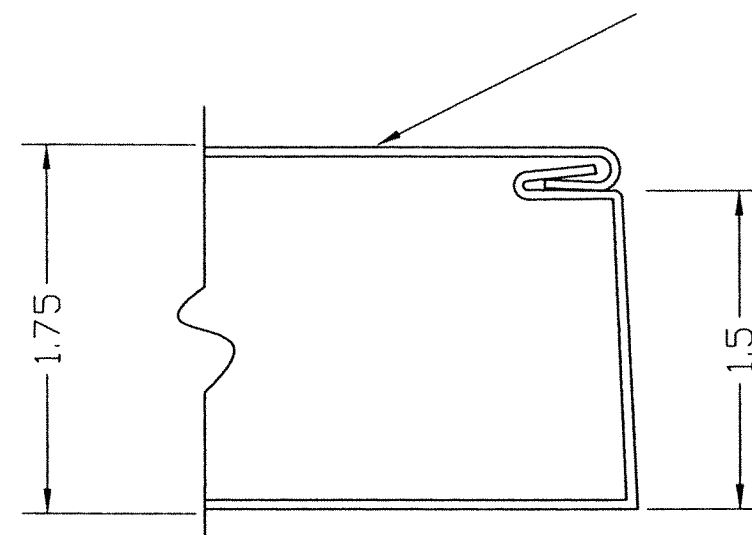
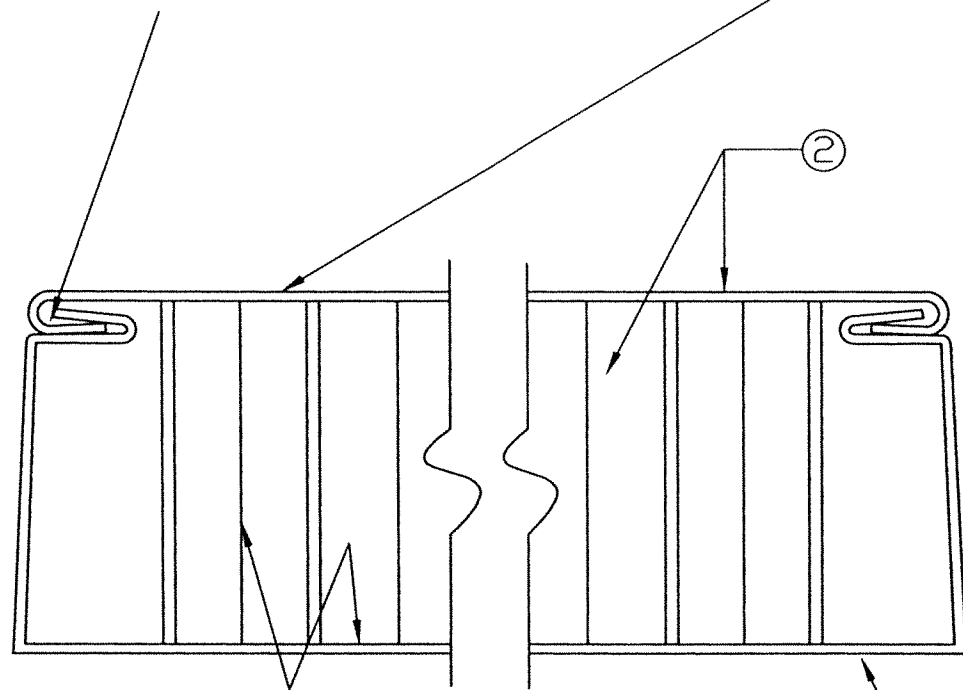
SHEET 3 OF 14

LOCKSEAM FILLED WITH
HELMIPRENE # C8323-1
ADHESIVE -SEALANT

DOOR BACK OR NARROW SIDE

MATERIAL:

② 18 GAUGE = .045 MINIMUM
GALVANNEAL

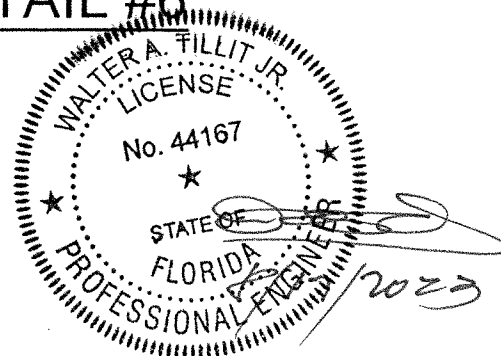


BOTH DOOR EDGES
1/8" IN 2" BEVEL

3/4" CELL PAPER HONEYCOMB OR 1.5 PCF
POLYURETHANE OR 12.5 PCF MINERAL
BOARD, BONDED TO FACE SHEET WITH
CONTACT ADHESIVE HELMIBOND # 8320-1

DOOR FRONT OR
WIDE SIDE

DOOR SECTION THROUGH EDGE SEAM, DETAIL #6



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DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204			08/17/2023 DATE			23-178 DRAWING No	
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2			4				

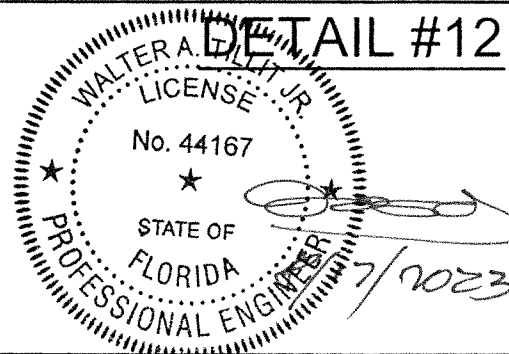


PLAN

MATERIAL:
16 GAUGE (0.057) MINIMUM
GALVANNEAL

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

DAYBAR INDUSTRIES LTD

50 WEST DRIVE, BRAMPTON,
ON CANADA, L6T 2J4
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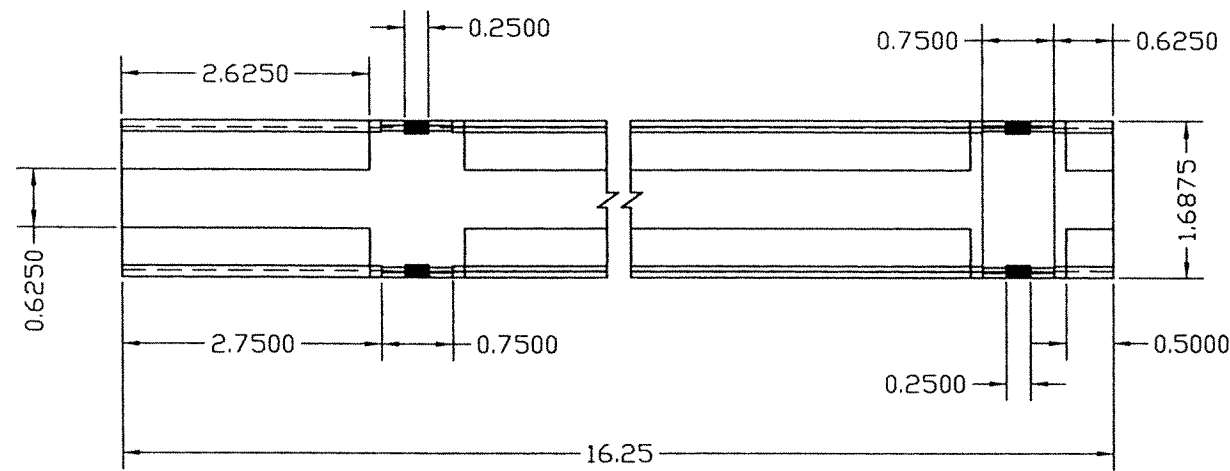
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1	OLD 20-152	08/17/23	3		
2			4		

DRAWN BY:
Y.M.

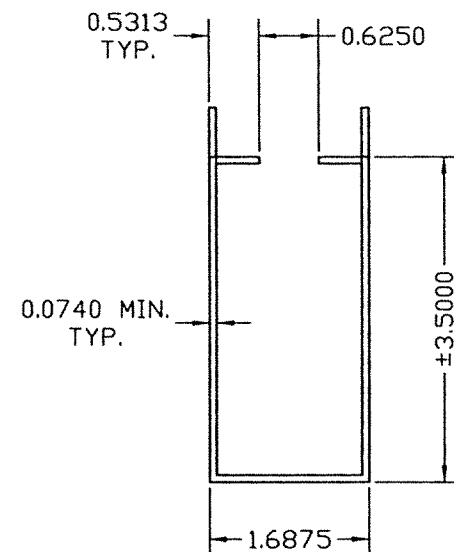
08/17/2023
DATE

23-178
DRAWING No

SHEET 5 OF 14

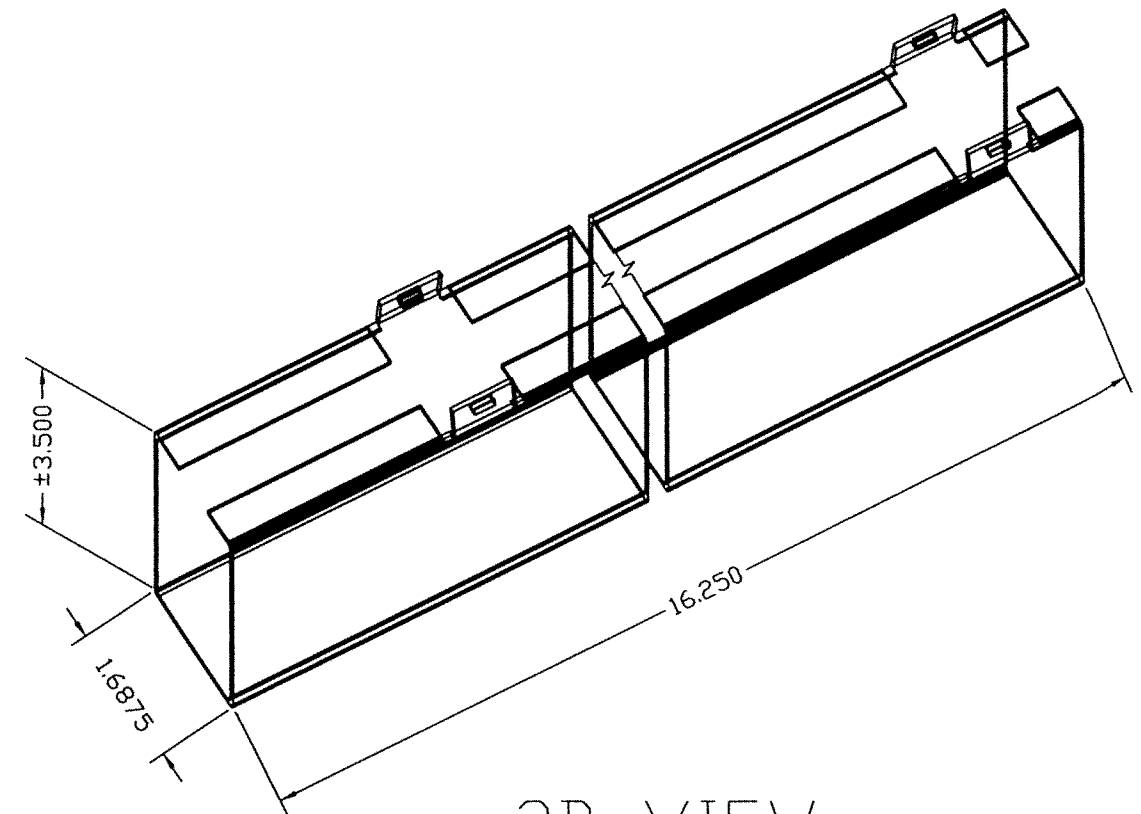


PLAN



SECTION

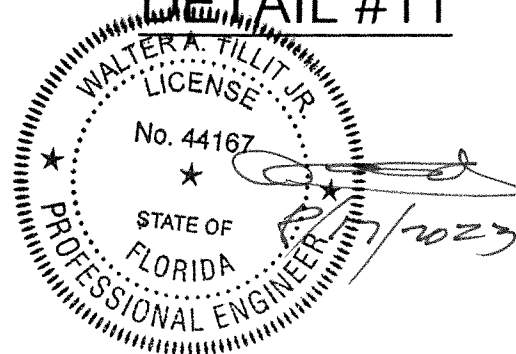
MATERIAL:
14 GAUGE (0.074)
MINIMUM GALVANNEAL



3D VIEW

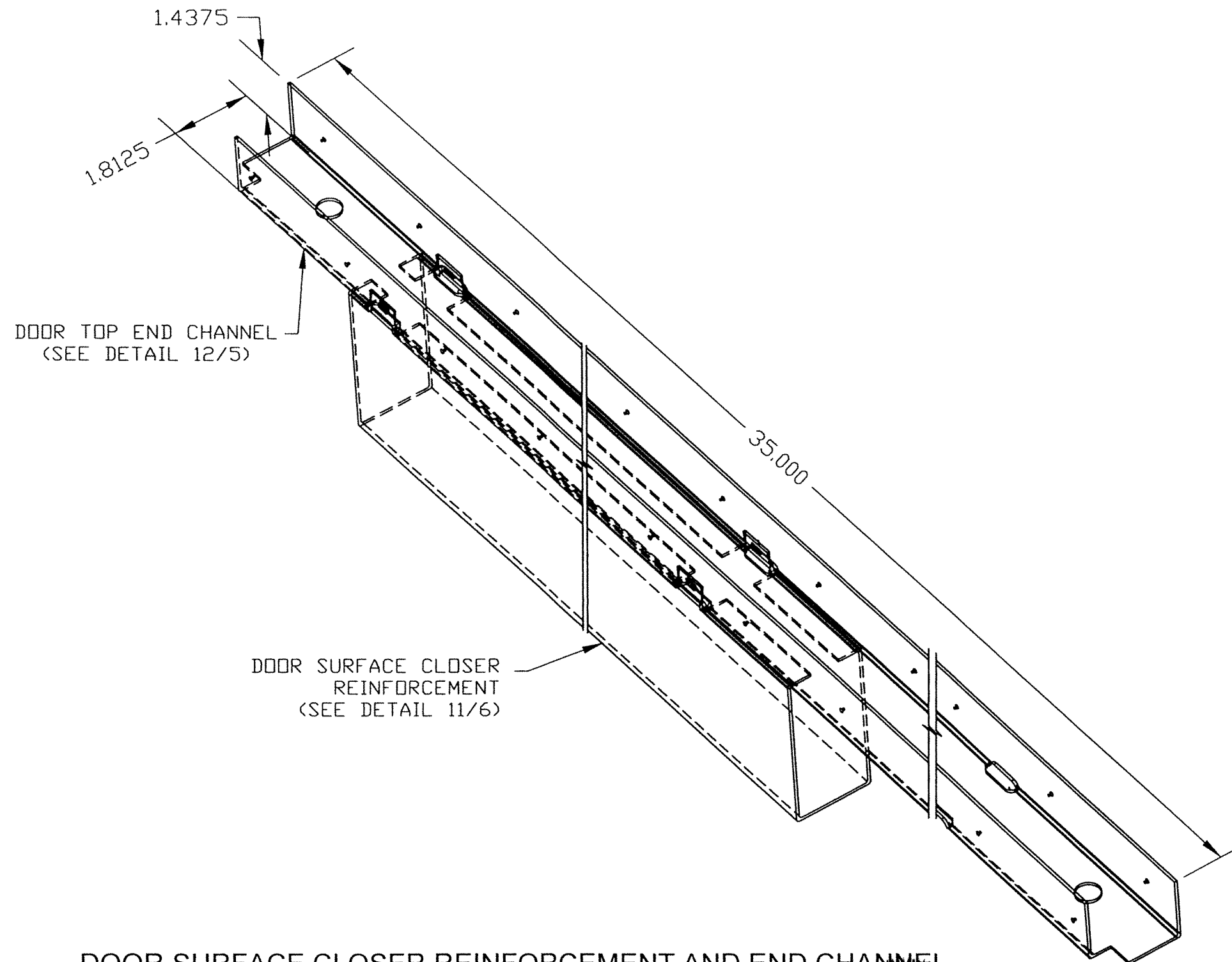
DOOR SURFACE CLOSER REINFORCING

DETAIL #11

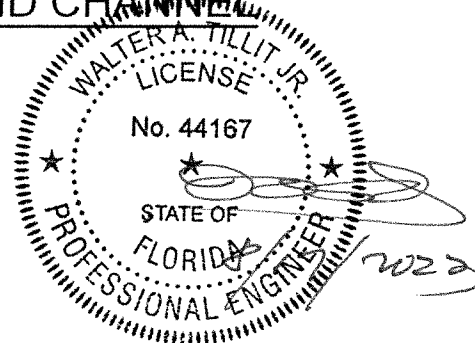


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DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204			08/17/2023 DATE			23-178 DRAWING No	
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2			4				

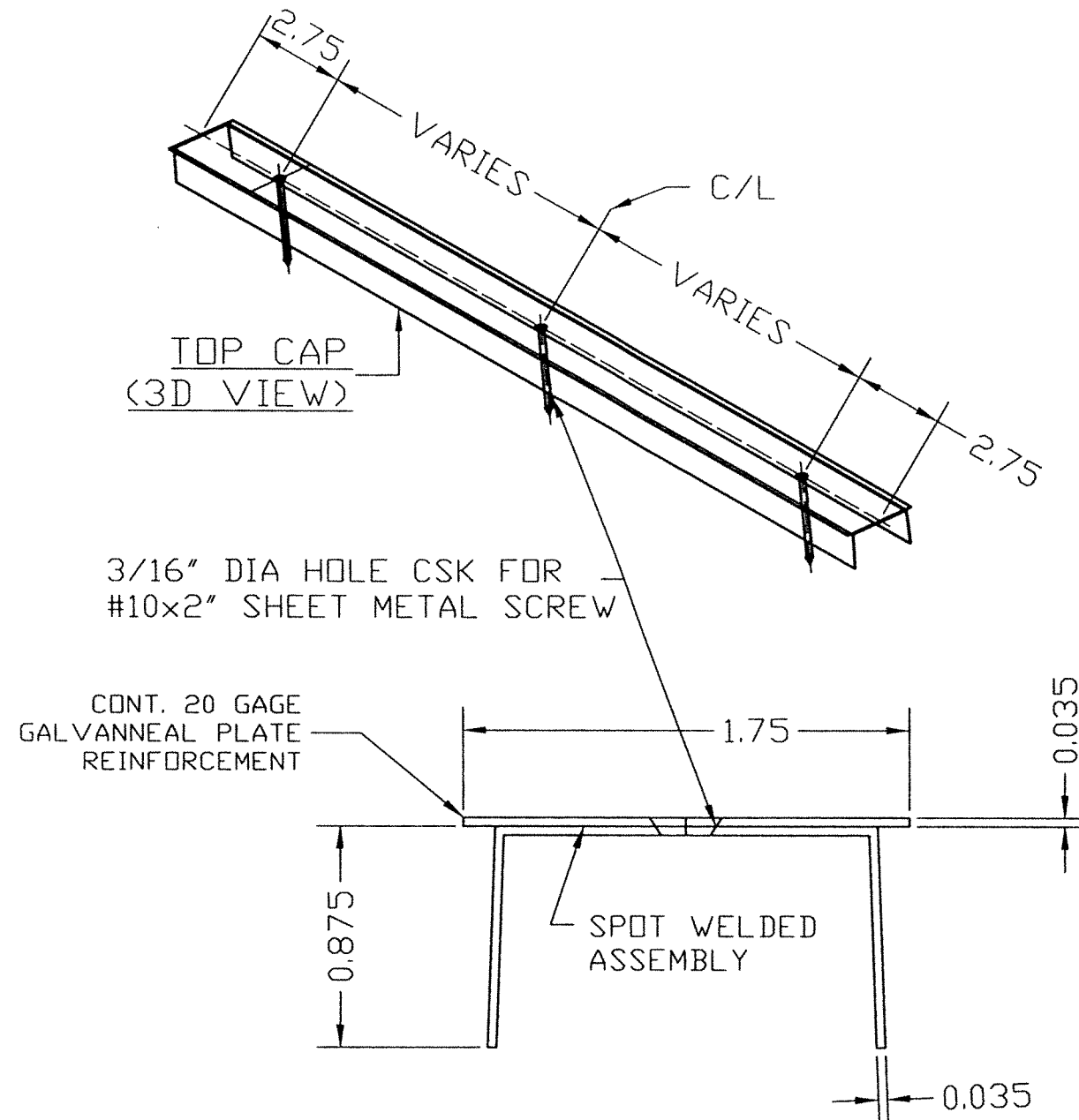


**DOOR SURFACE CLOSER REINFORCEMENT AND END CHANNEL
ASSEMBLY DETAIL #13**



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

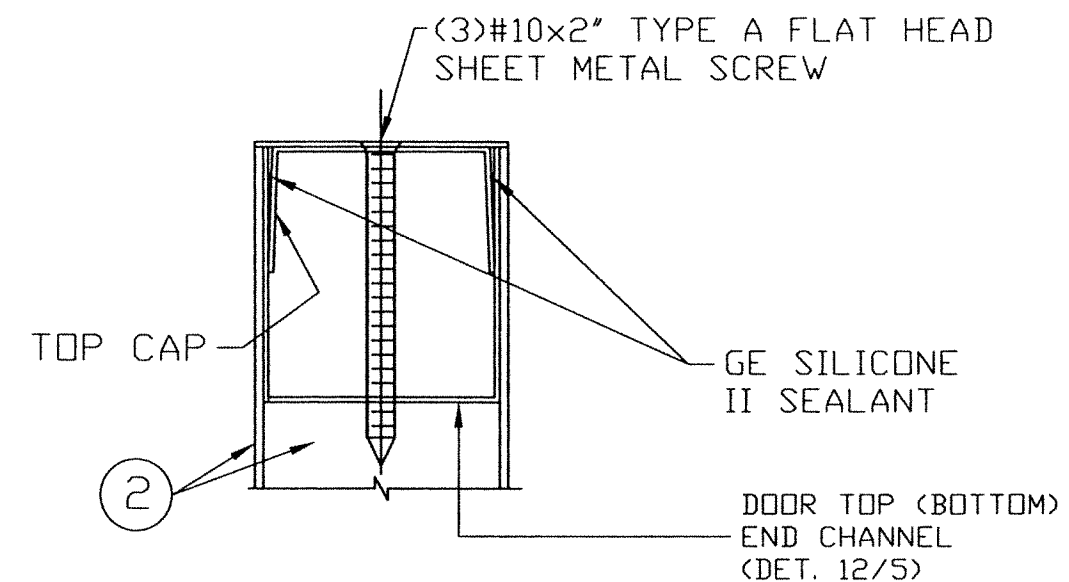
 TILLIT TESTING & ENGINEERING COMPANY 6355N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" STEEL FRAME		DRAWN BY: Y.M.	
		DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204		08/17/2023 DATE	
REV. No 1 2	DESCRIPTION OLD 20-152	DATE 08/17/23	REV. No 3 4	DESCRIPTION DATE	23-178 DRAWING No SHEET 7 OF 14



TOP CAP (SECTION)

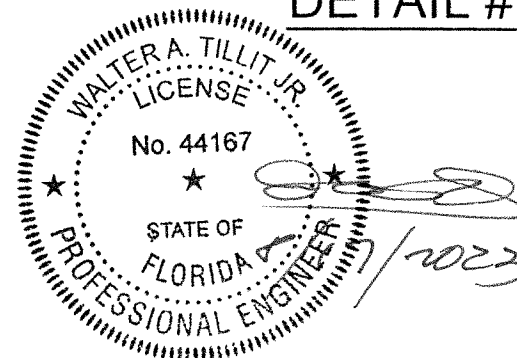
NOTE:
MATERIAL 20 GAUGE
(0.035) MINIMUM
GALVANNEAL

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



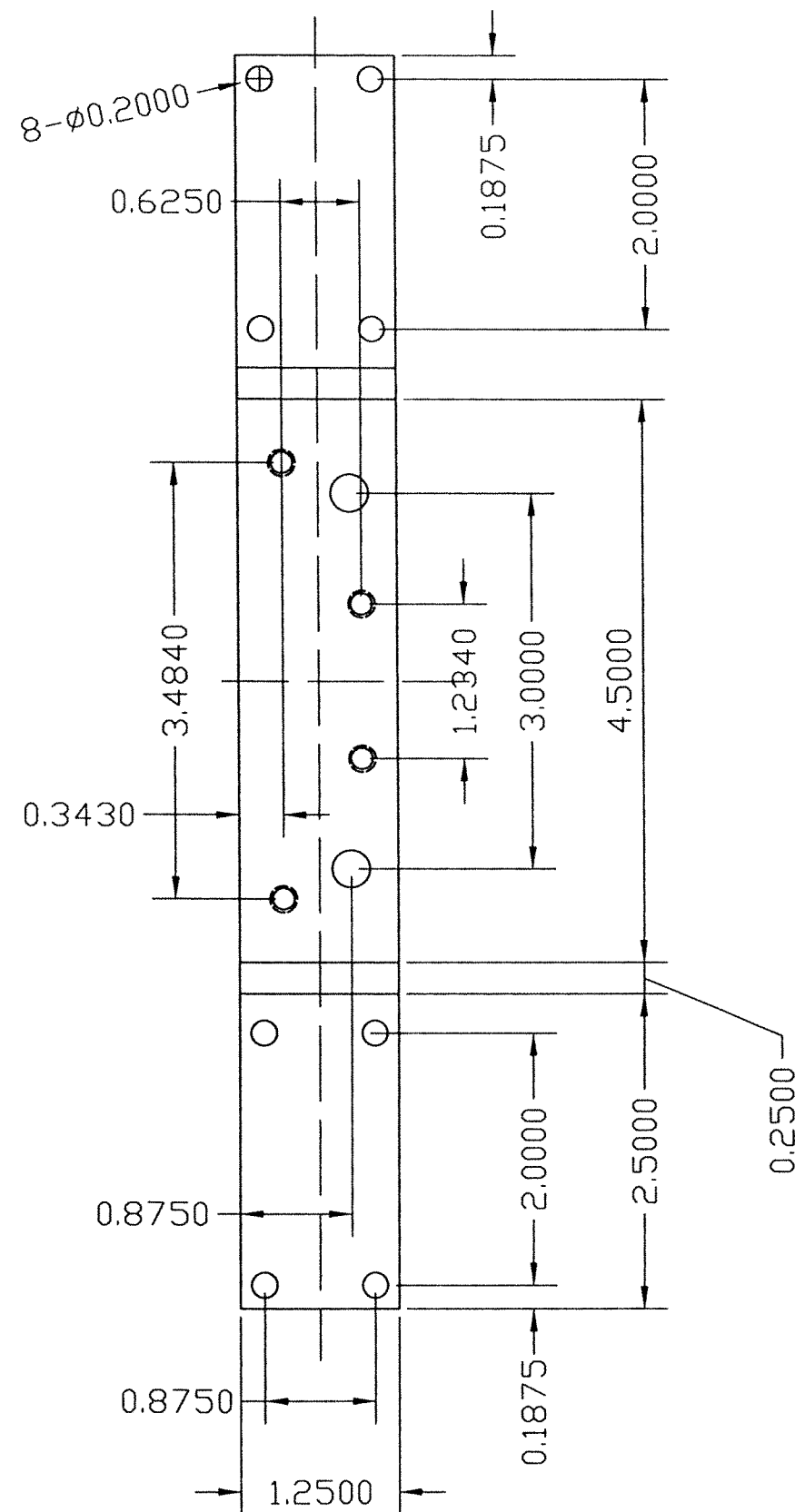
DOOR ASSEMBLY
AT TOP EDGE

PAGE #8 DOOR STEEL TOP CAP DETAIL #14

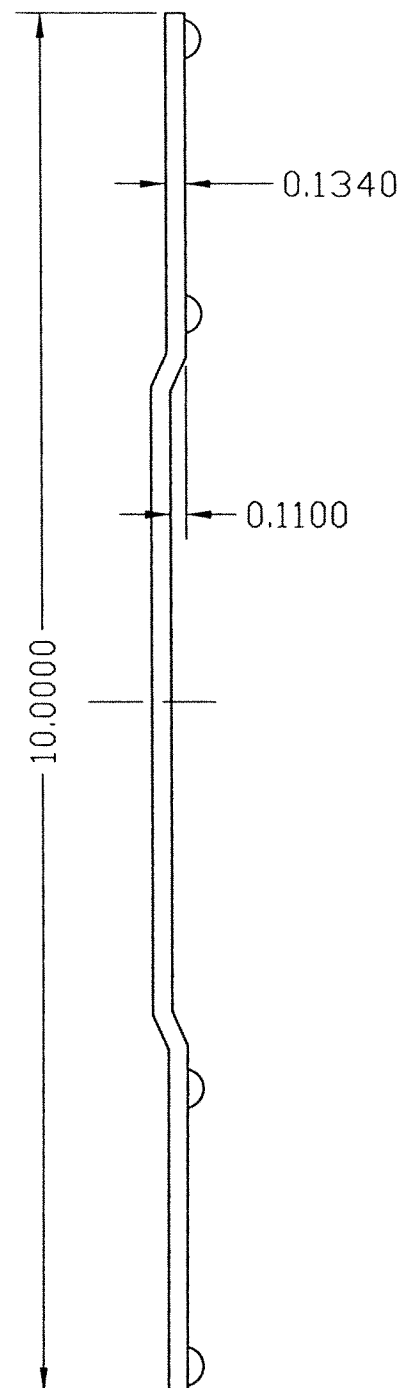


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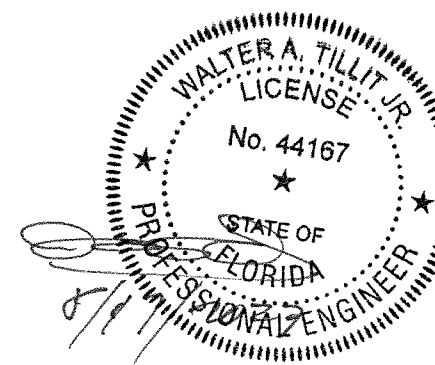
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-152	08/17/23	3		
2			4		
					23-178 DRAWING No
					SHEET 8 OF 14



DOOR HINGE REINFORCING.

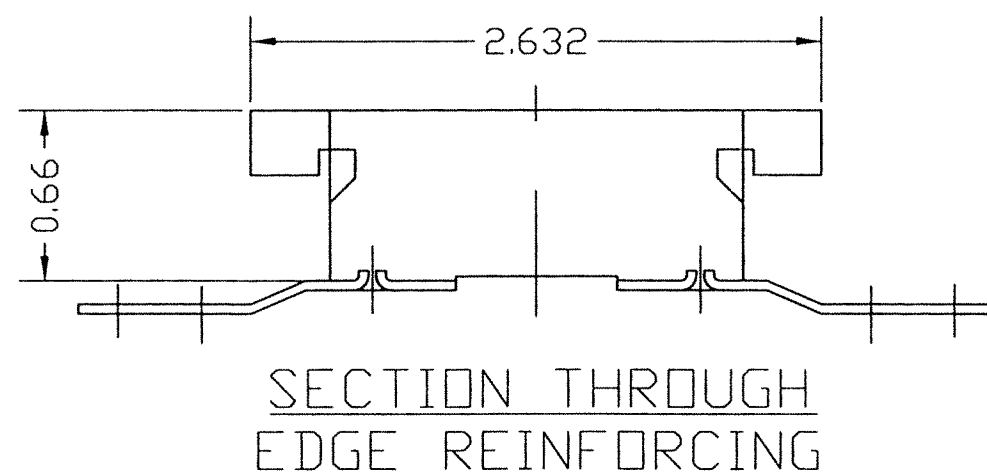
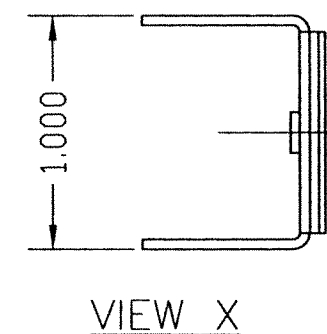
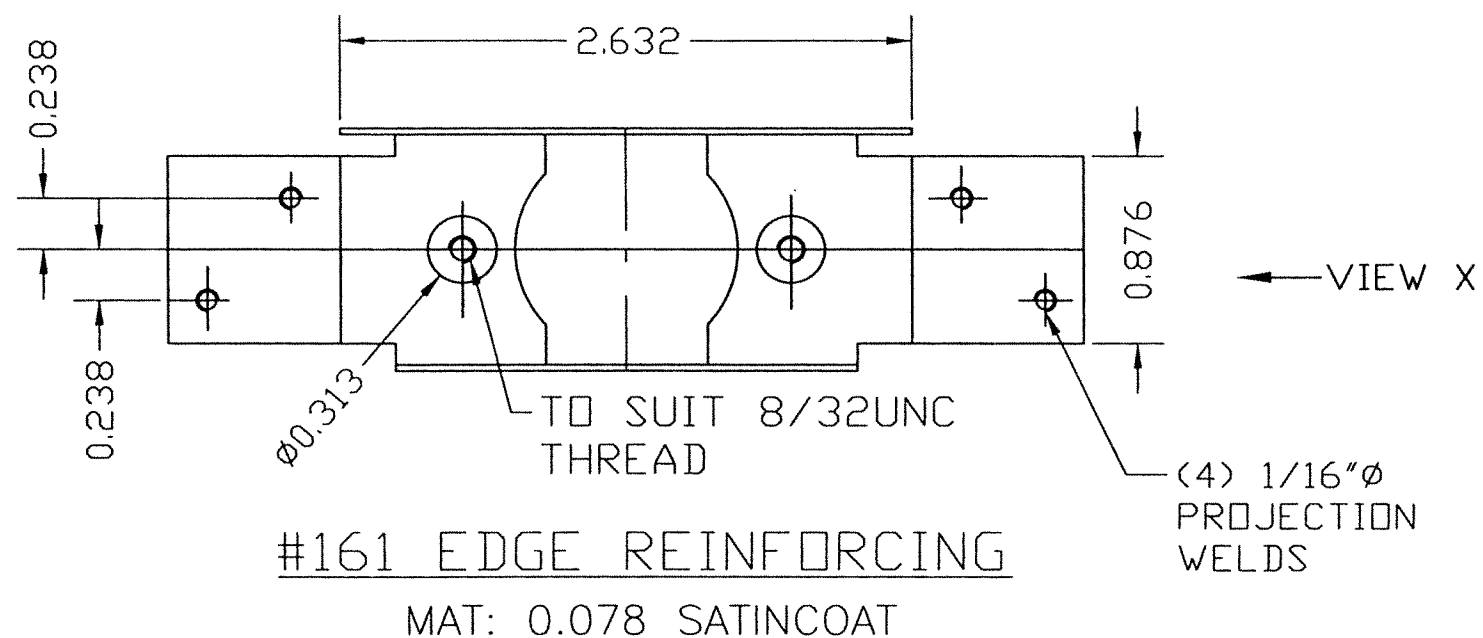
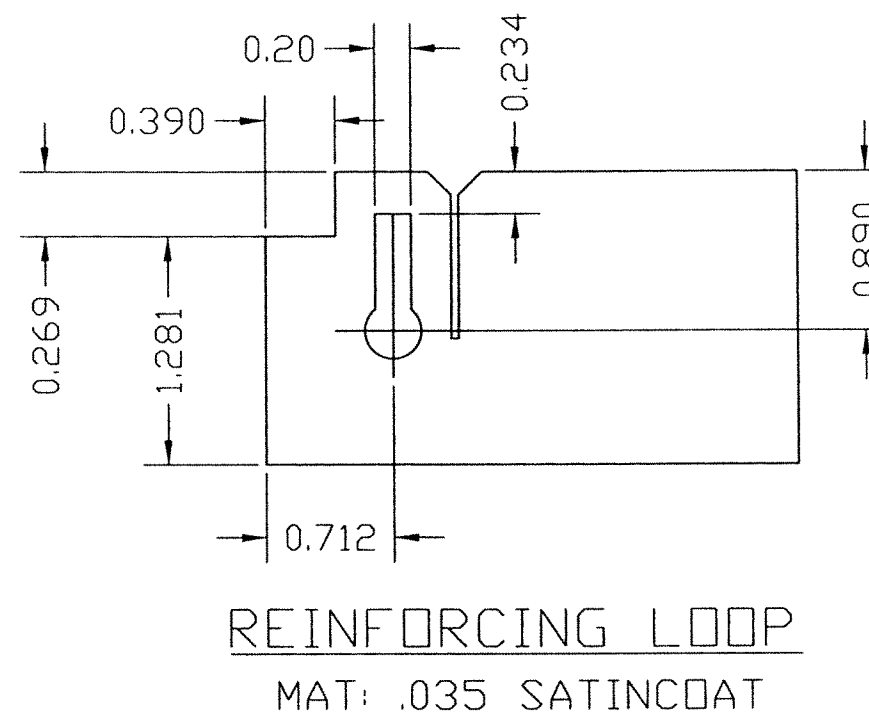
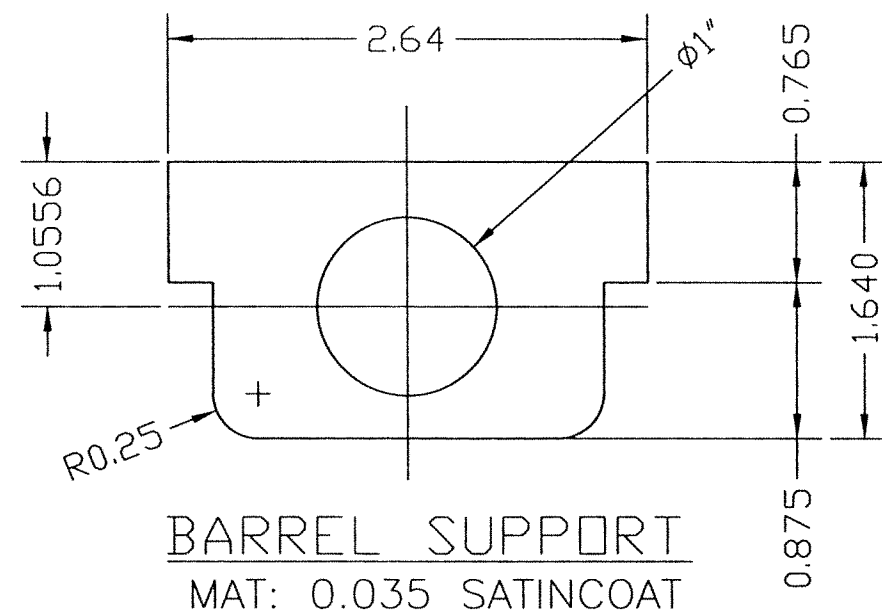
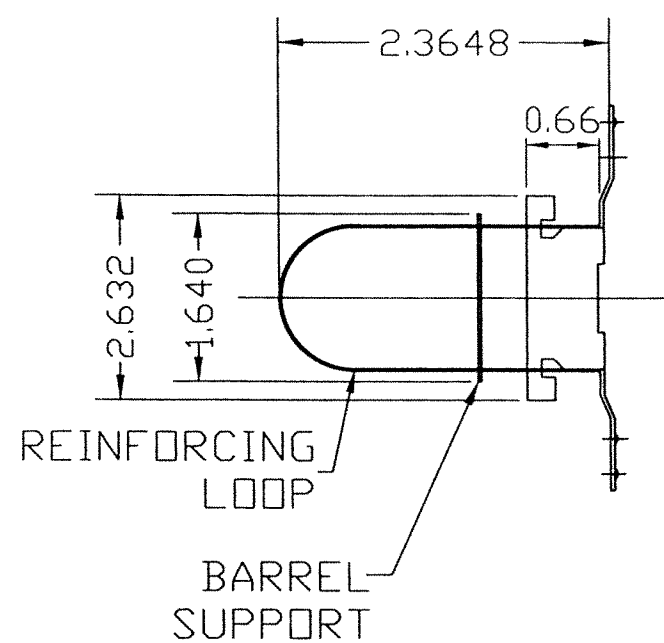


MATERIAL:
GAUGE 10 MINIMUM
GALVANNEAL

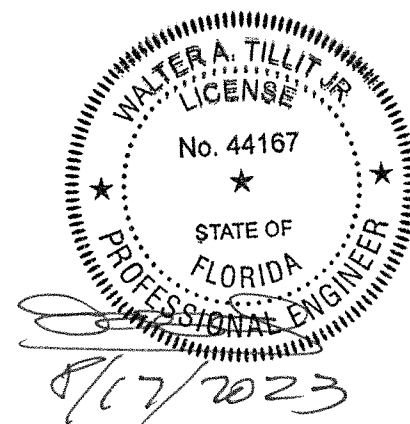


FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-152	08/17/23	3		
2			4		
				23-178 DRAWING No	
				SHEET 9 OF 14	



#161 LOCK, REINFORCINGS DETAIL #8



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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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

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

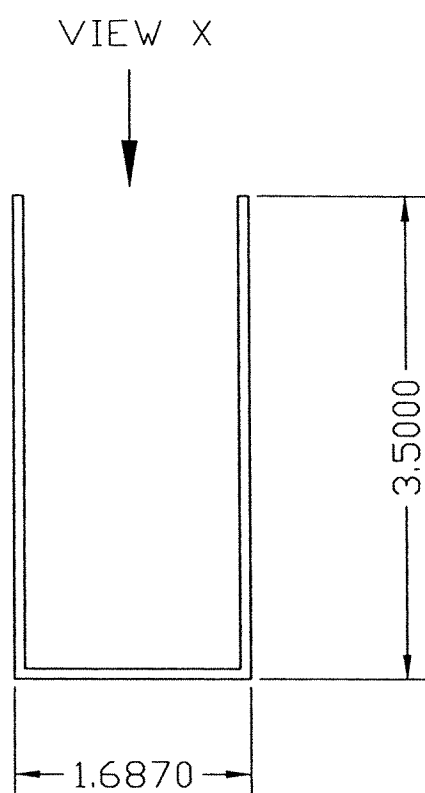
DRAWN BY:
Y.M.

08/17/2023
DATE

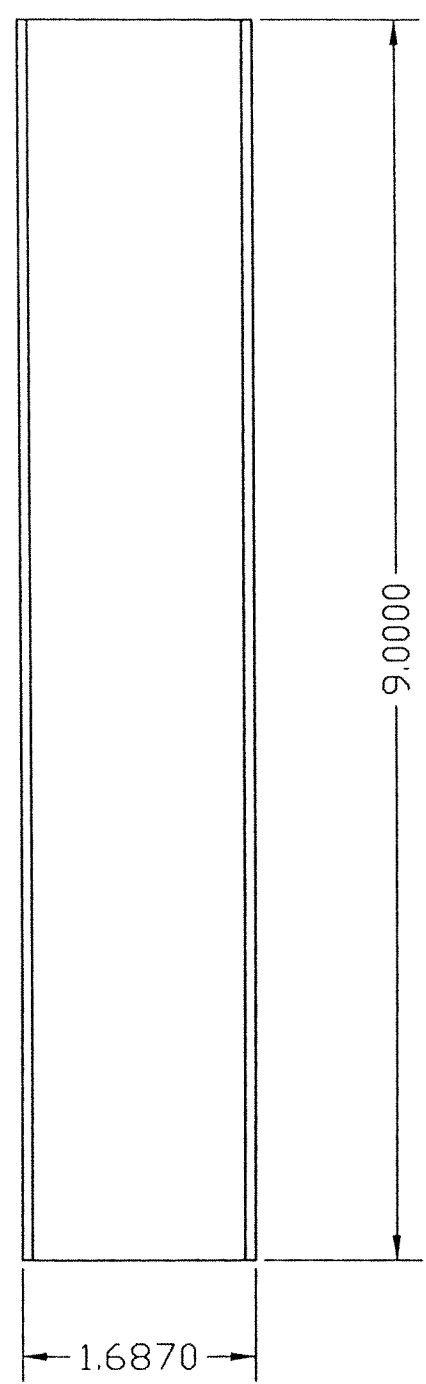
23-178
DRAWING No

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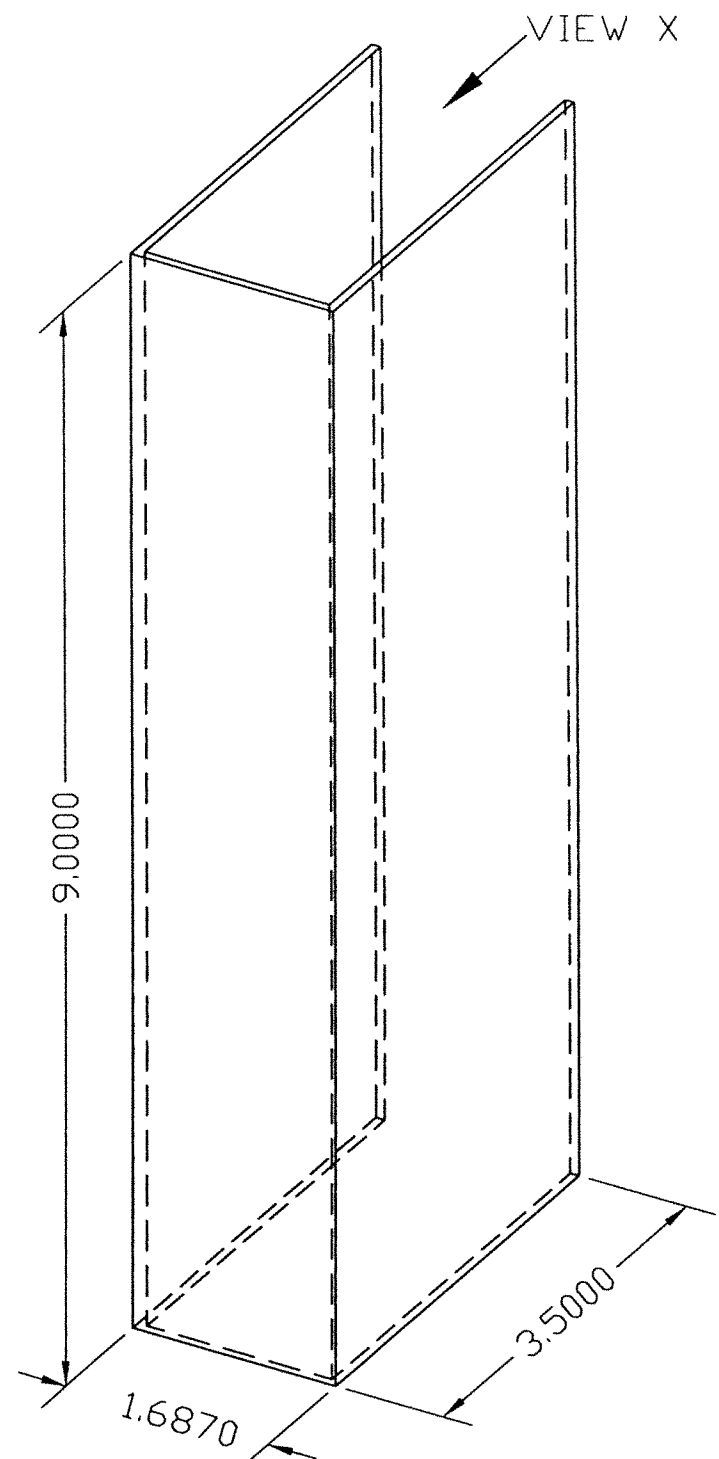
SHEET 11 OF 14



PLAN



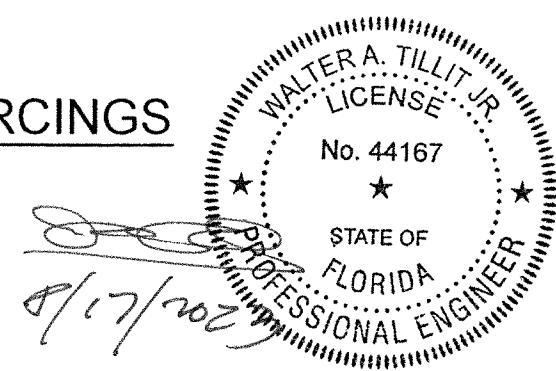
VIEW X



3D VIEW

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

PAGE #12 RIM PANIC SURFACE BOLT REINFORCINGS
DETAIL #10



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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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

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2			4		

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DATE

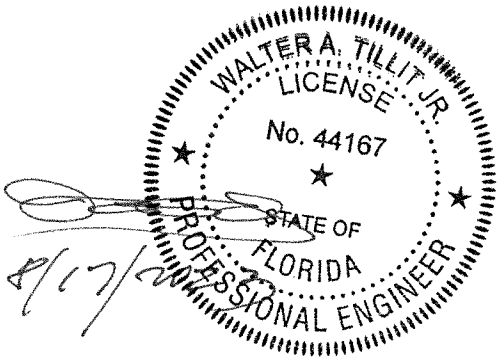
23-178
DRAWING No

SHEET 12 OF 14

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-152	08/17/23	3		
2			4		

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 PAPER HONEYCOMB OR 1.5 PCF POLYURETHANE OR 21.5 PCF MINERAL BOARD CORE
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)
8	6	EMA ANCHOR BOLTS (4 PER JAMB) (OR)	3/8" X 5" STEEL UNICAN-SLEEVE ANCHOR
9	6	CARRIAGE ANCHOR BOLTS (4 PER JAMB) (OR)	3/8"-16 X 6" STEEL CARRIAGE BOLT C/W NUT AND WASHER
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



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

©2023 TILTECO, INC. 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		SERIES LS18 FLUSH OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" STEEL FRAME		DRAWN BY: Y.M.	
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				23-178 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-152	08/17/23	3		
2			4		
					SHEET 14 OF 14