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MAX. A.S.D. DESIGN PRESSURE RATINGS (psf) REQUIREMENTS FOR ASSEMBLIES. SEE SHEETS 2 & 3 FOR ASSEMBLY DEFINITIONS

ASSEMBLY #	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED **	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED (NON HABITABLE AREAS)
1	+ 65, - 65	+ 65, - 65
2	+ 65, - 65	+ 65, - 65
3	+ 65, - 65	+ 65, - 65
7	+ 65, - 53.3	+ 65, - 53.3
7-EMB	+ 65, - 53.3	+ 65, - 53.3

** APPROVED ONLY WHEN CANOPY IS PROVIDED IMMEDIATELY ABOVE THE DOOR LOCATION COVERING THE ENTIRE WIDTH OF THE DOOR AND PROJECTING OUT A DISTANCE EQUAL OR LARGER THAN THE DOOR'S HEIGHT.
NOT APPROVED IF THE ABOVE CONDITION IS NOT COMPLIED WITH.

THIS DOOR WAS NOT TESTED FOR AIR INFILTRATION

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

GENERAL NOTES AND SPECIFICATIONS:

1. DOUBLE & SINGLE SERIES LS18 FLUSH/EMBOSSED OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES, 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 (MIAMI-DADE / BROWARD COUNTIES).
DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODES, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 1 & 3A.
IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE WITH MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 1 & 3A.

IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE LOADS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. HOWEVER, FASTENER SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH ANSI/AWC NDS-2024.
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 HURRICANE TEST LABORATORY REPORT #0279-0719-03 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 19) OF THIS DRAWING.

3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER FBC SHALL BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.

4. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) SHALL BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY WITH FLORIDA BUILDING CODE SECTIONS 2411.3.3.4 & 1711.

5. ALL WELDING SHALL CONFORM WITH AMERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS. USE E 60XX ELECTRODES.

6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 17 OF THIS DRAWING. MAXIMUM ANCHOR SPACINGS SHALL BE AS PER SCHEDULE ON SHEET 18 AND ELEVATIONS ON SHEETS 2 & 3 OF THIS DRAWING. SEE SHEET 2, 3 & 7 FOR THRESHOLD ANCHORS, AND SHEET 11 FOR MULLION ANCHORS. ALL ANCHORS SHALL COMPLY WITH SECTION 1711 OF THE FLORIDA BUILDING CODE.

7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEETS 5, 6, 7 & 17 OF 19.

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

9. SEE MAX. A.S.D. DESIGN PRESSURE RATING REQUIREMENTS FOR WATER INFILTRATION AND LIMITATIONS FOR AIR INFILTRATION FOR ASSEMBLIES ON THIS SHEET.

10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAMES, THRESHOLD AND VISION LITE COMPONENTS INDICATED ON THIS DRAWING.

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) THE CONTRACTOR IS 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) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHO WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

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

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

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)



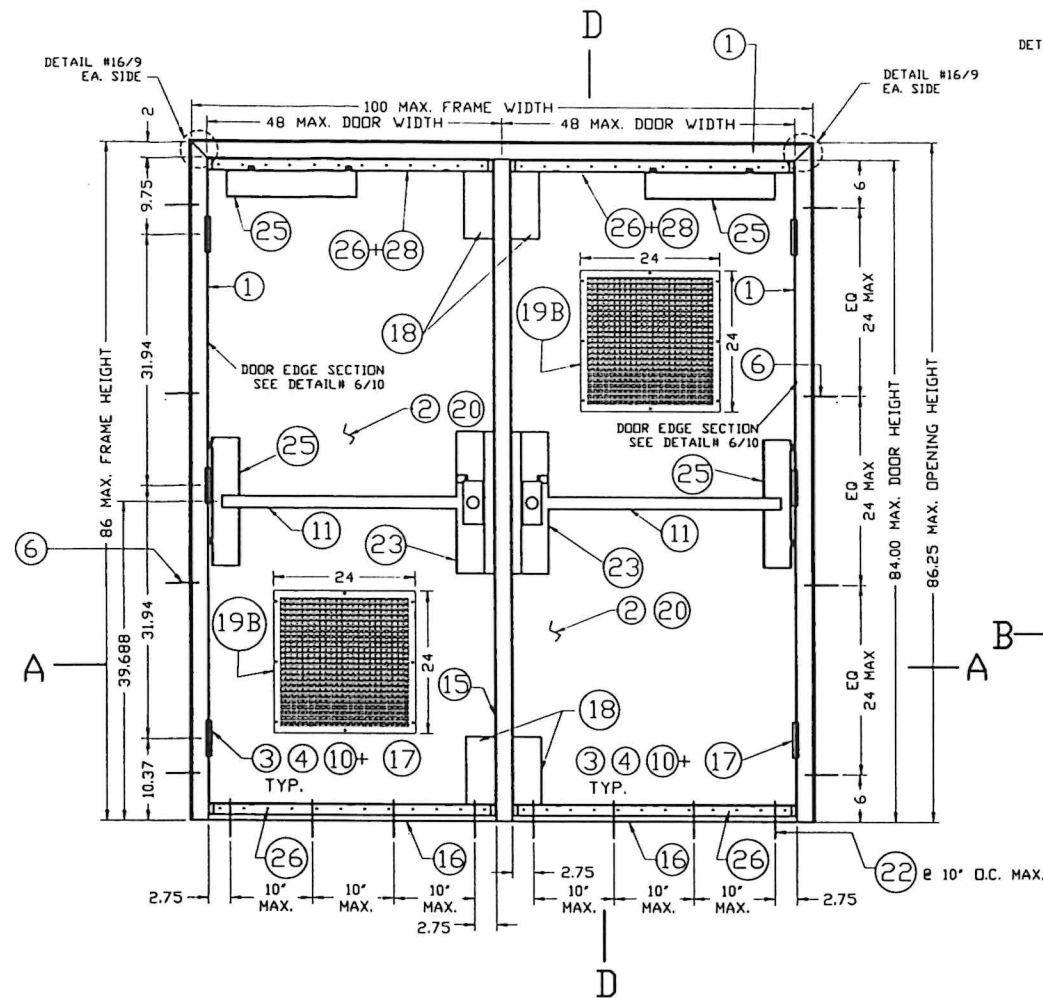
P.E. SEAL/SIGNATURE/DATE

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FLORIDA Lic. # 44167

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.				W.H. DRAWN BY	
DAYBAR INDUSTRIES LTD				08/04/2026 DATE	
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204				26-242 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-180	08/04/2026	3		
2			4		
					SHEET 1 OF 19



ASSEMBLY #1, * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : MASONRY

ANCHORS: WIRE (6) DETAIL #21

VON DUPRIN 98/99L TRIM SERIES RIM EXIT (1)

AT BOTH DOORS

4 1/2" HAGER MODEL #BB1168 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FBB168 STEEL BUTT HINGE (10)

VON DUPRIN 9954 REMOVABLE MULLION (15)

(FOR DOUBLE DOOR ONLY)

DOOR CORE ITEM (20) : EXPANDED POLYSTYRENE OR HONEYCOMB

PAPER OR 1.5PCF POLYURETHANE OR 12.5PCF MINERAL BOARD

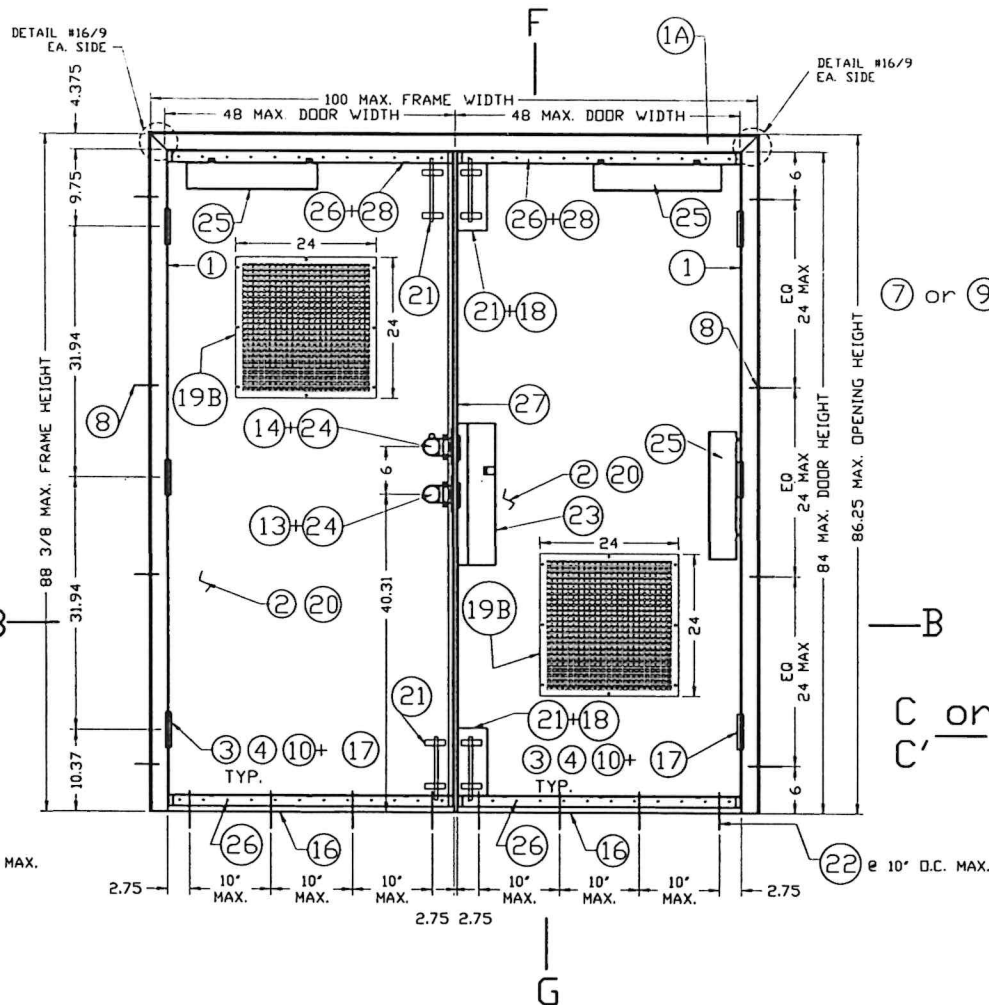
FULL FLUSH

AIR LOUVER INC. METAL LOUVER #1500A (19B) W/24"x24"

(DOOR CUTOUT) AND LOCATED AT 12" CLEAR FROM TOP OR

BOTTOM OF DOOR AND CENTERED W/ DOOR

OUTSWING SINGLE & DOUBLE DOORS
W/ VON DUPRIN RIM PANIC DEVICES



ASSEMBLY #2, * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : MASONRY

ANCHORS: EMA EXISTING MASONRY ANCHOR DET. #22

SCH-D SERIES CYLINDRICAL LOCK (13) + SCH-B SERIES DEAD BOLT (14)

HAGER #275D SURFACE BOLTS (21) (TOP & BOTTOM) AT

TWO DOORS

4 1/2" HAGER MODEL #BB1279 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FB179 STEEL BUTT HINGE (10)

"Z" ASTRAGAL (27) W/ ASA STRIKE

FOR CYLINDRICAL LOCK AND DEAD BOLT STRIKE

DOOR CORE (20) : EXPANDED POLYSTYRENE OR HONEYCOMB PAPER OR

1.5PCF POLYURETHANE OR 12.5PCF MINERAL BOARD

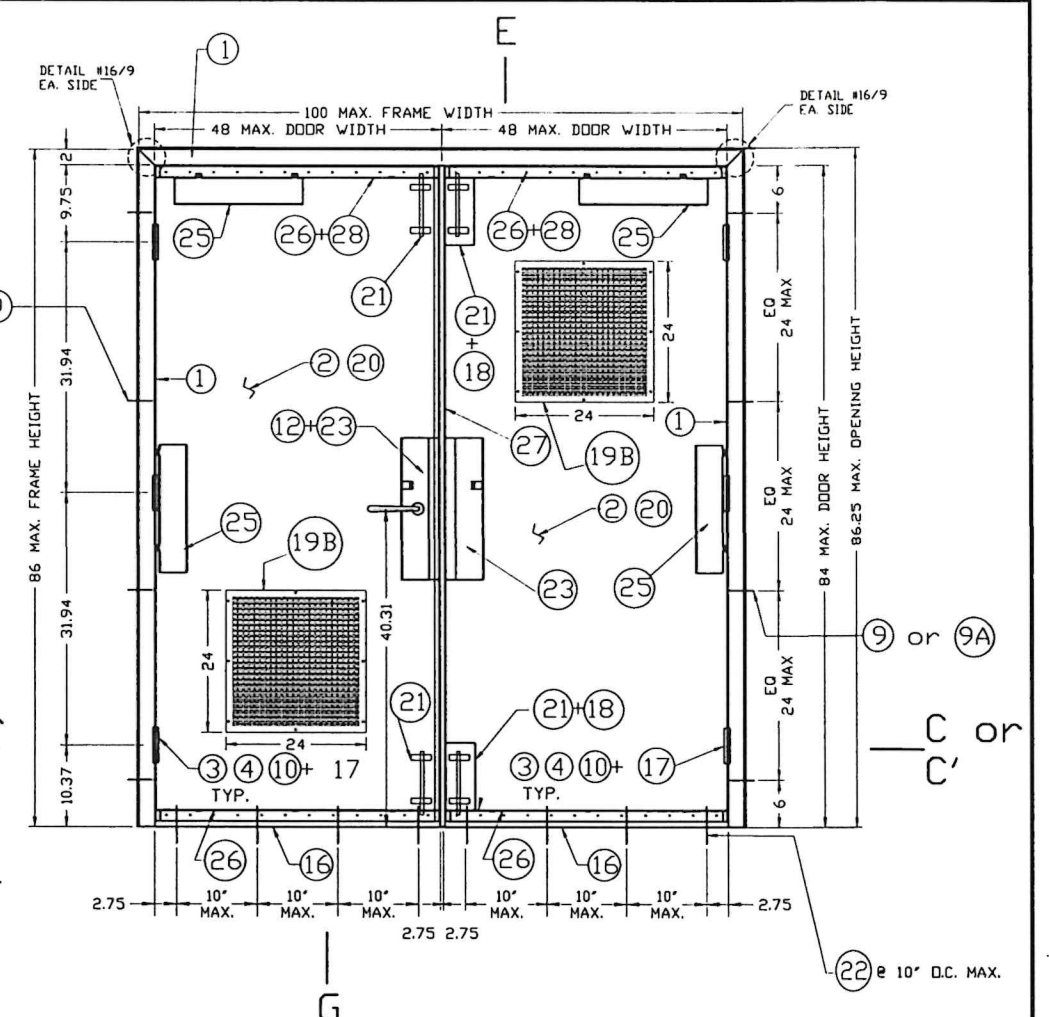
FULL FLUSH

AIR LOUVER INC. METAL LOUVER #1500A (19B) W/24"x24"

(DOOR CUTOUT) AND LOCATED AT 12" CLEAR FROM TOP OR

BOTTOM OF DOOR AND CENTERED W/ DOOR

OUTSWING SINGLE DOOR W/ TWO SURFACE BOLTS
& DOUBLE DOORS W/ FOUR SURFACE BOLTS



ASSEMBLY #3, * INTERIOR ELEVATION

PAIR OF OUTSWING DOORS

WALL CONDITION : WOOD STUDS

ANCHORS: 2 PIECE COMBINATION STUD ANCHOR (7) DETAIL #20

OR CARRIAGE BOLT (9A) W/ EMA (DET. #22A) OR WOOD SCREW

LAG BOLT (9) W/ EMA (DETAIL #22B)

SCH-L9000 SERIES #86 MORTISE LOCK (12) (W/ DEAD BOLT INCLUDED)

HAGER #275D SURFACE BOLTS (21) (TOP & BOTTOM) AT TWO DOORS

4 1/2" HAGER MODEL #BB1279 STEEL BUTT HINGE AND

4 1/2" STANLEY MODEL #FB179 STEEL BUTT HINGE (10)

"Z" ASTRAGAL (27) W/ ASA STRIKE FOR MORTISE LOCK

DOOR CORE (20) : EXPANDED POLYSTYRENE OR HONEYCOMB PAPER OR

1.5PCF POLYURETHANE OR 12.5PCF MINERAL BOARD

FULL FLUSH

AIR LOUVER INC. METAL LOUVER #1500A (19B) W/24"x24"

(DOOR CUTOUT) AND LOCATED AT 12" CLEAR FROM TOP OR

BOTTOM OF DOOR AND CENTERED W/ DOOR

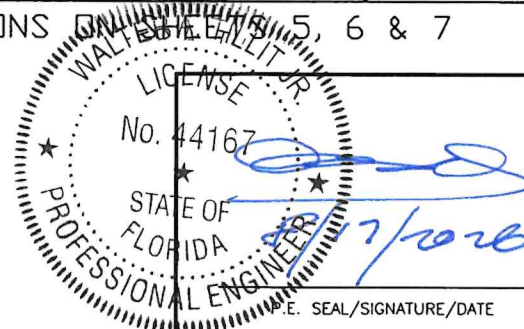
OUTSWING SINGLE DOOR W/ TWO SURFACE BOLTS
& DOUBLE DOORS W/ FOUR SURFACE BOLTS

ASSEMBLY ELEVATIONS #1, 2 & 3

SEE SECTIONS 5, 6 & 7

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

- SEE SHEET 1 FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR EACH ASSEMBLY. BASED ON WATER INFILTRATION REQUIREMENTS AND AIR INFILTRATION LIMITATIONS.
- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR ASSEMBLY COMBINATIONS. BASED ON WATER INFILTRATION REQUIREMENTS AND AIR INFILTRATION LIMITATIONS.

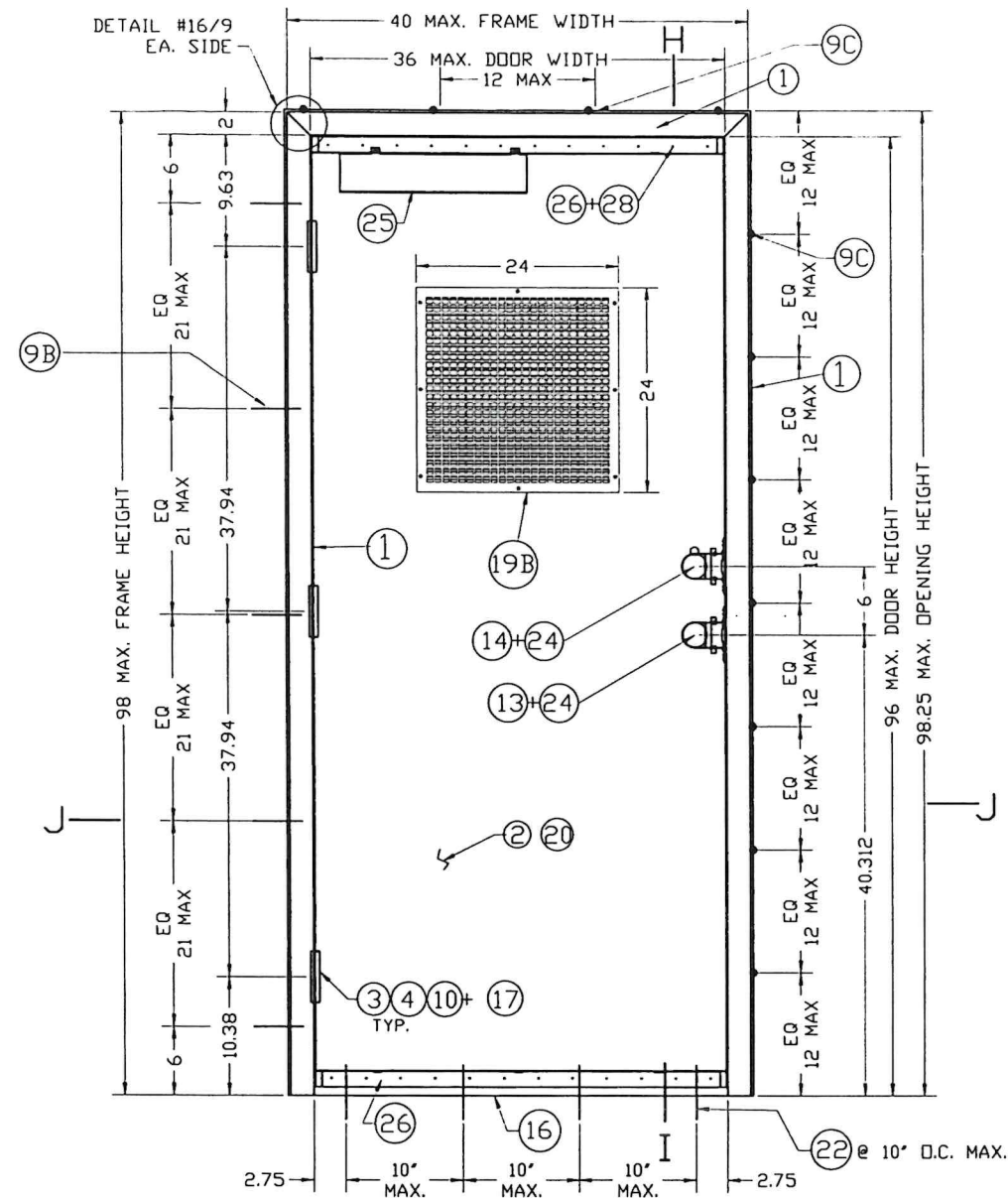


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2			4			

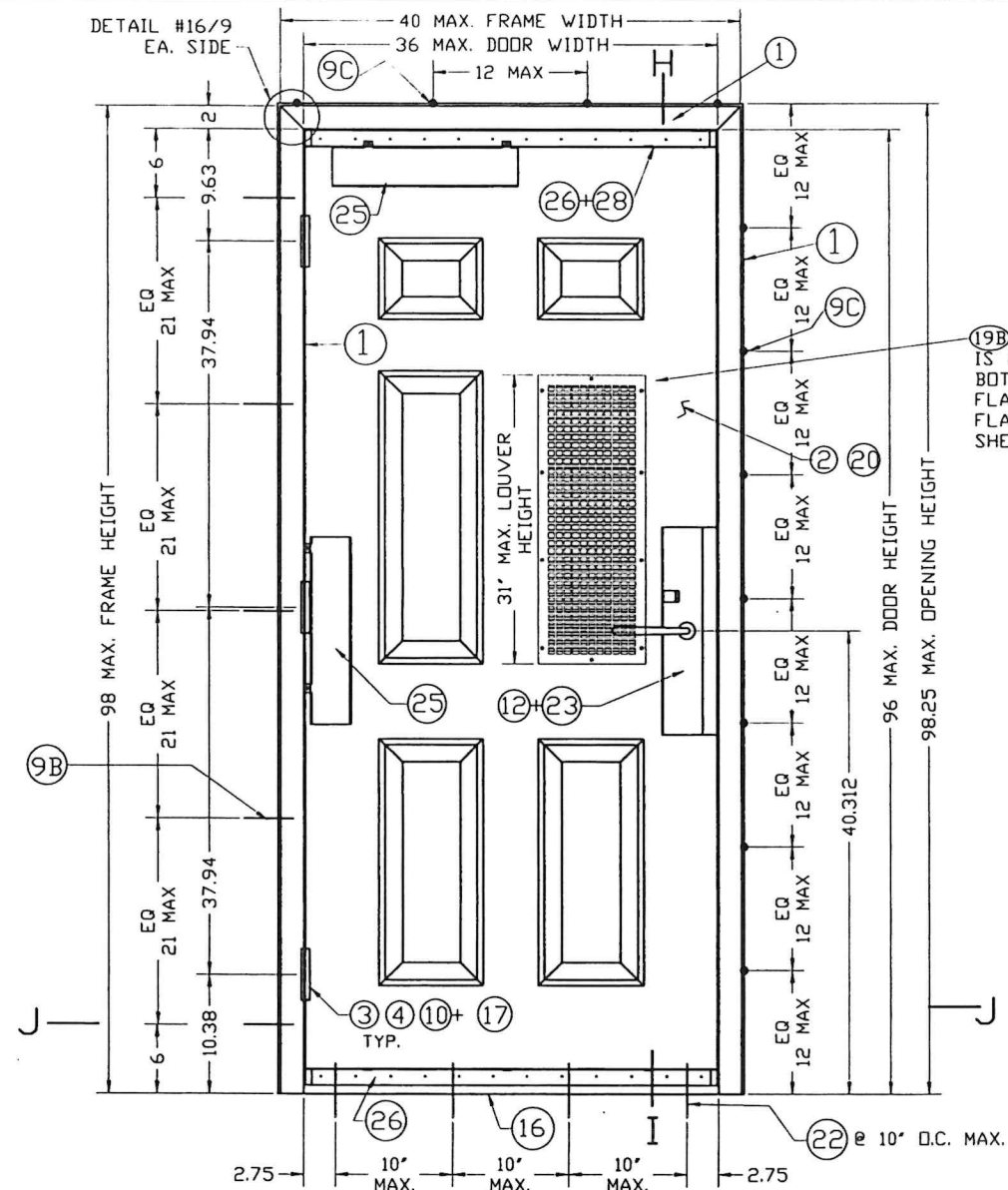


ASSEMBLY #7 * EXTERIOR ELEVATION
SINGLE DOOR OUTSWING

WALL CONDITION - WELDED HOT ROLLED

3/8" MIN. THICK STRUCTURAL STEEL CHANNEL FRAME JAMB AND HEAD.
ANCHORS: 3/8"x3 1/2" FLAT HEAD MACHINE SCREW, LOCK WASHER & NUT W/ EMA (DET #23A), OR FRAME (1) WELDED @ 12" O.C. AT JAMB AND HEAD INCLUDING TOP & BOTTOM OF JAMB (DET #23B).
SCH-D SERIES CYLINDRICAL LOCK (13) + SCH-B SERIES DEAD BOLT (14)
4 1/2" HAGER MODEL # BB1279 STEEL BUTT HINGE (10)
DOOR CORE (20) EXPANDED POLYSTYRENE OR HONEYCOMB PAPER OR 1.5PCF POLYURETHANE OR 12.5PCF MINERAL BOARD. FULL FLUSH
AIR LOUVER INC., METAL LOUVER #1500-A (19B) W/ 24"x24" DOOR CUT-OFF, AND LOCATED AT 12" FROM TOP OF DOOR TO TOP OF LOUVER

OUTSWING SINGLE DOORS WITHOUT SURFACE BOLTS



ASSEMBLY #7-EMB EXTERIOR ELEVATION
SINGLE DOOR OUTSWING

WALL CONDITION - WELDED HOT ROLLED

STRUCTURAL STEEL CHANNEL FRAME JAMB AND HEAD.
ANCHORS: 3/8"x3 1/2" FLAT HEAD MACHINE SCREW, LOCK WASHER & NUT W/ EMA (DET #23A), OR FRAME (1) WELDED @ 12" O.C. AT JAMB AND HEAD INCLUDING TOP & BOTTOM OF JAMB (DET #23B).
SCH-L SERIES #86 MORTISE LOCK (12) W/ DEAD BOLT INCLUDED.
4 1/2" HAGER MODEL # BB1279 STEEL BUTT HINGE (10)
DOOR CORE (20) EXPANDED POLYSTYRENE OR HONEYCOMB PAPER OR 1.5PCF POLYURETHANE OR 12.5PCF MINERAL BOARD. FULL EMBOSSED
AIR LOUVER INC., METAL LOUVER #1500-A (19B) W/ 24"x24" DOOR CUT-OFF, AND LOCATED AT 12" FROM TOP OF DOOR TO TOP OF LOUVER

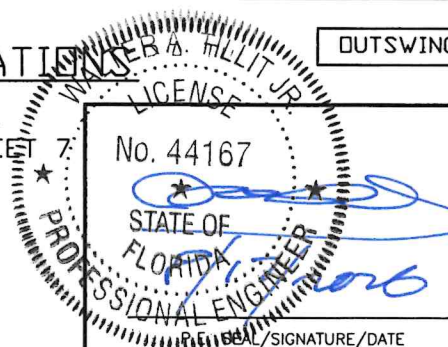
OUTSWING SINGLE DOORS WITHOUT SURFACE BOLTS

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

- SEE SHEET 1 FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR EACH ASSEMBLY, BASED ON WATER INFILTRATION REQUIREMENTS AND AIR INFILTRATION LIMITATIONS.
- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR ASSEMBLY COMBINATIONS, BASED ON WATER INFILTRATION REQUIREMENTS AND AIR INFILTRATION LIMITATIONS.

ASSEMBLY ELEVATIONS
#7, 7-EMB

SEE SECTIONS ON SHEET 7



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STEEL FRAME LOUVERED ASSEMBLIES.

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

W.H.
DRAWN BY

08/04/2026
DATE

26-242
DRAWING No

SHEET 3 OF 19

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-180	08/04/2026	3		
2			4		

MAX. A.S.D. DESIGN PRESSURE RATING (psf.) SCHEDULE FOR INSTALLATIONS COMBINING ASSEMBLIES #1 THRU #7-EMB BETWEEN EACH OTHER FOR A GIVEN ANCHOR JAMB TYPE *, **

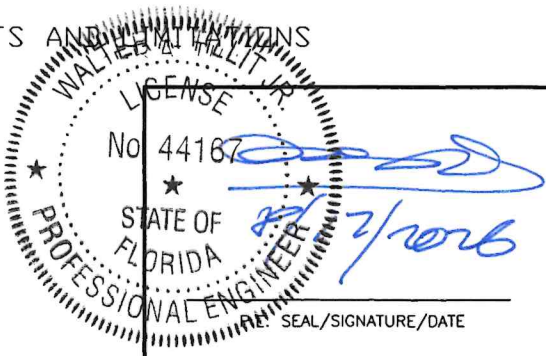
ITEM (SEE SHEET 19 FOR B.O.M.),	ANCHOR SPECIFICATIONS AT JAMBS *	ASSEMBLY #1 (SEE SHEET 2) **	ASSEMBLY #2 (SEE SHEET 2) **	ASSEMBLY #3 (SEE SHEET 2) **	ASSEMBLY #7 (SEE SHEET 3) **	ASSEMBLY #7-EMB (SEE SHEET 3) **
⑥	0.157" DIA.x9 1/2" LONG WIRE ANCHOR (SEE DETAIL 21/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑦	2 PIECE COMBINATION STUD ANCHOR (SEE DETAIL 20/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑧	EXISTING MASONRY ANCHOR & E.M.A. (SEE DETAIL 22/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑨	EXISTING WOOD BUCK ANCHOR W/WOOD SCREW LAG BOLT & E.M.A. (SEE DETAIL 22A/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑨A	EXISTING WOOD BUCK ANCHOR W/ STEEL CARRIAGE BOLT & E.M.A. (SEE DETAIL 22B/17)	+65, -65	+65, -65	+65, -65	+65, -53.3	+65, -53.3
⑨B	CHANNEL IRON THROUGH BOLTING W/3/8" x 3 1/2" STEEL FLAT HEAD MACHINE SCREW & E.M.A. (SEE DETAIL 23A/17)	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3
⑨C	CHANNEL IRON W/3/8" STITCH WELD (SEE DETAIL 23B/17)	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3	+65, -53.3

* NOTES ON FRAME HEAD REQUIREMENTS

1. FOR SINGLE & DOUBLE DOORS INSTALLED AT WOOD FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY RETAINED BY EXISTING BUILDINGS WOOD HEADER FOLLOWING DETAILS AS PER SECTION E, SHEET 7.
2. FOR SINGLE & DOUBLE DOORS INSTALLED AT STEEL FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY WELDED TO EXISTING BUILDINGS STEEL FRAME HEADER FOLLOWING DETAILS AS PER SECTION H, SHEET 7 & DETAIL 23B ON SHEET 17.
3. FOR SINGLE & DOUBLE DOORS INSTALLED AT CONCRETE /MASONRY BUILDINGS, DOOR HEADS NEED NOT BE ATTACHED TO EXISTING BUILDINGS HEADER. APPLICABLE TO SECTIONS D & F, SHEET 7.

** NOTES ON WATER AND AIR INFILTRATION REQUIREMENTS AND LIMITATIONS

1. SEE GENERAL NOTE 9 ON SHEET 1 OF 19 FOR REQUIREMENTS AND LIMITATIONS



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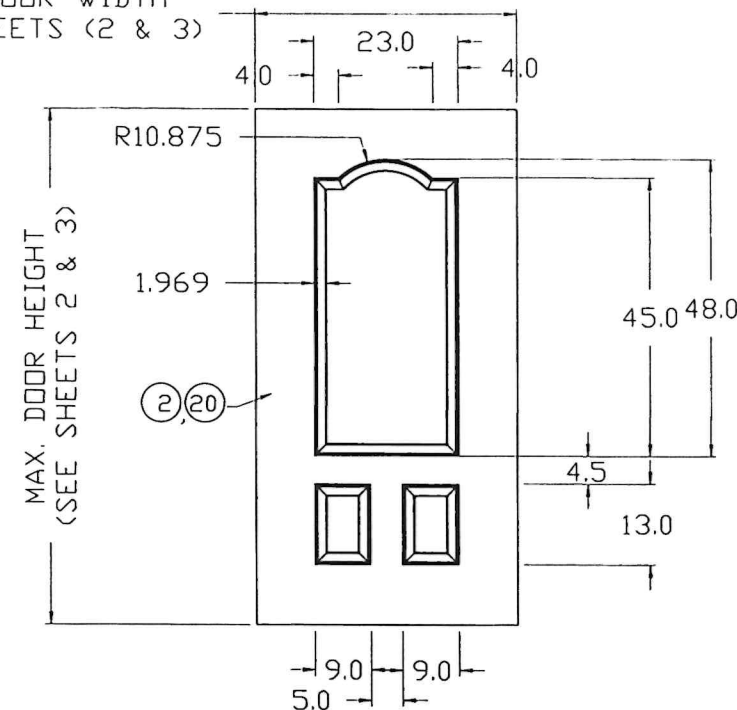
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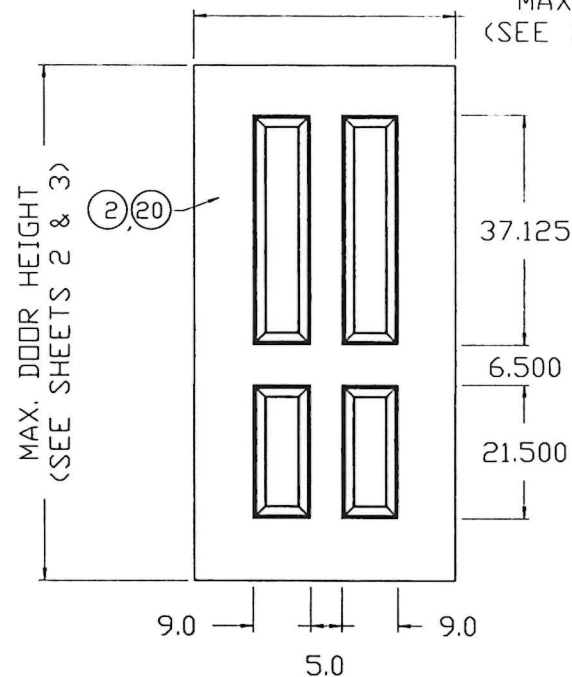
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DRAWING No

SHEET 3A OF 19

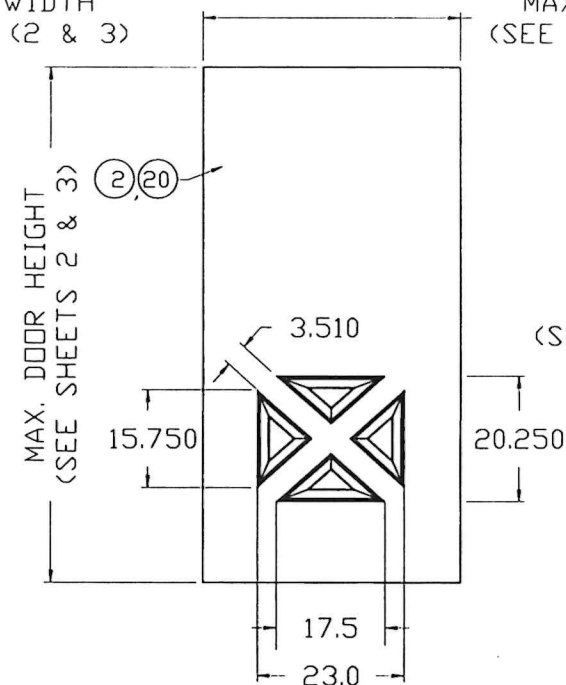
MAX. DOOR WIDTH
(SEE SHEETS (2 & 3))



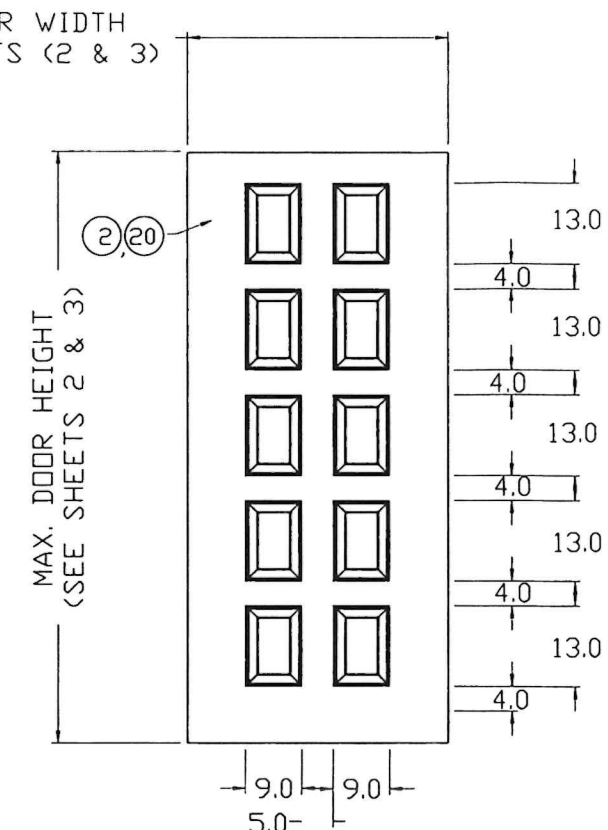
MAX. DOOR WIDTH
(SEE SHEETS (2 & 3))



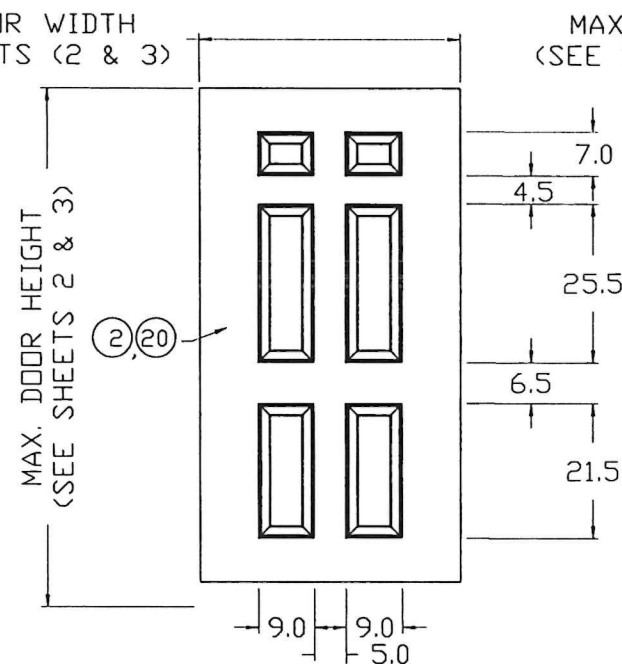
MAX. DOOR WIDTH
(SEE SHEETS (2 & 3))



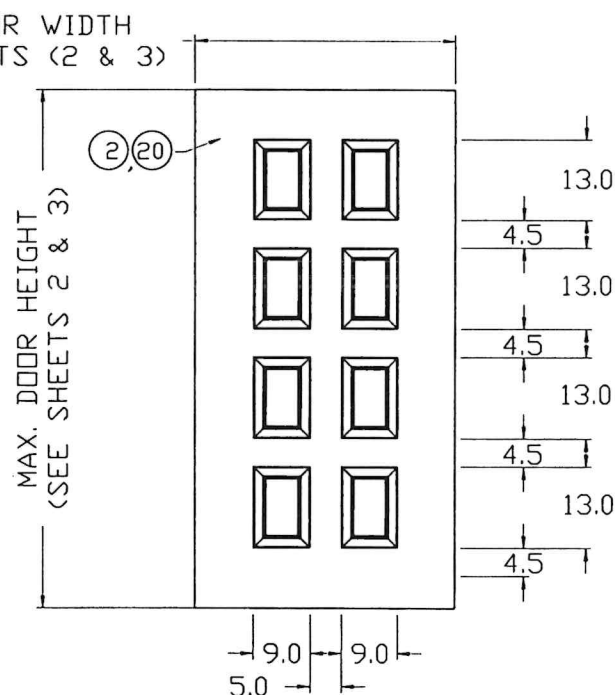
MAX. DOOR WIDTH
(SEE SHEETS (2 & 3))



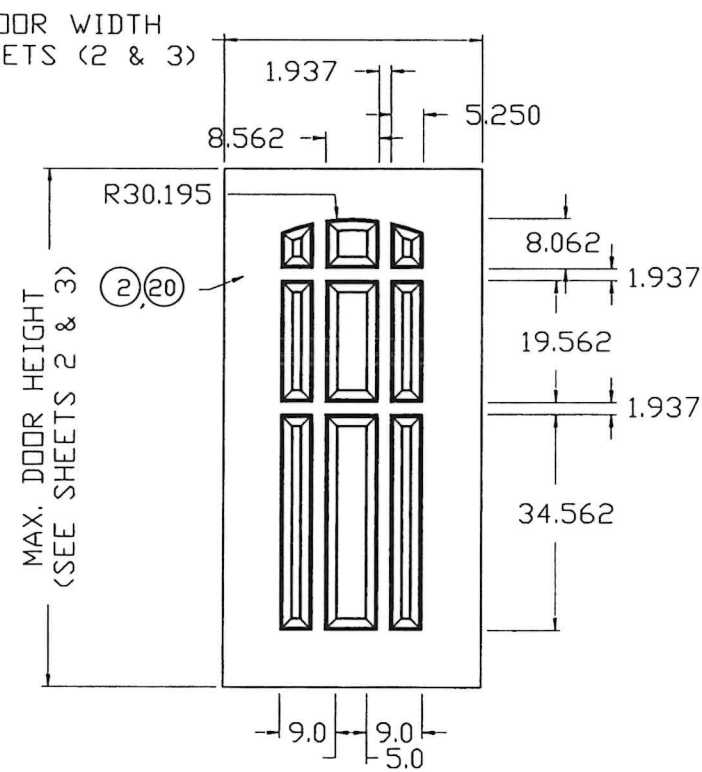
MAX. DOOR WIDTH
(SEE SHEETS (2 & 3))



MAX. DOOR WIDTH
(SEE SHEETS (2 & 3))



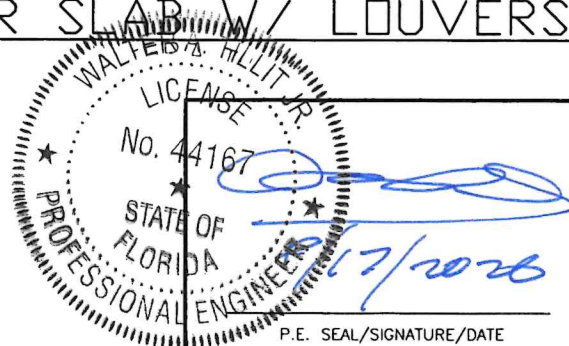
MAX. DOOR WIDTH
(SEE SHEETS (2 & 3))



OPTIONAL EMBOSSED DOOR SLAB W/ LOUVERS SHEET CONFIGURATIONS

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

NOTE:
EMBOSSED DOORS W/ LOUVERS PERMITTED
IN SINGLES & PAIRS LIMITED TO DESIGN
PRESSURES NOTED FOR EACH ASSEMBLY

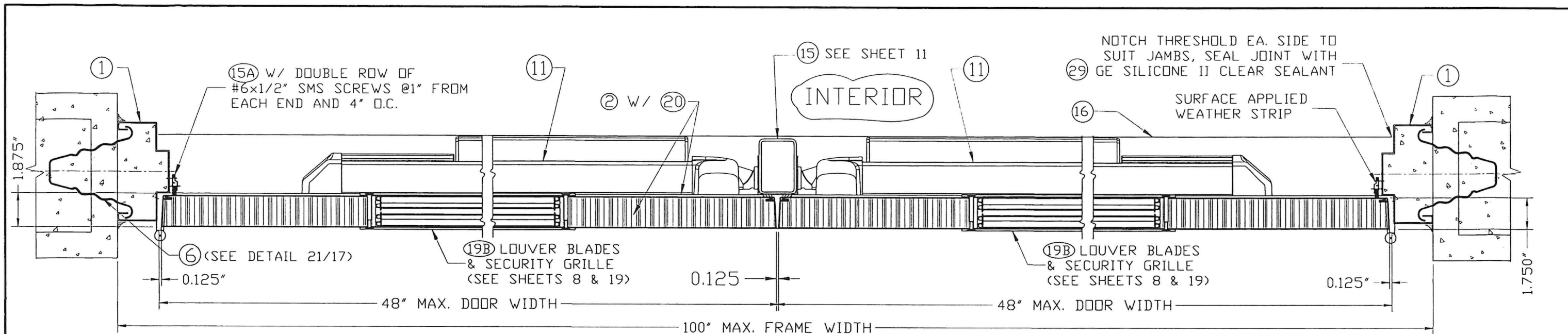


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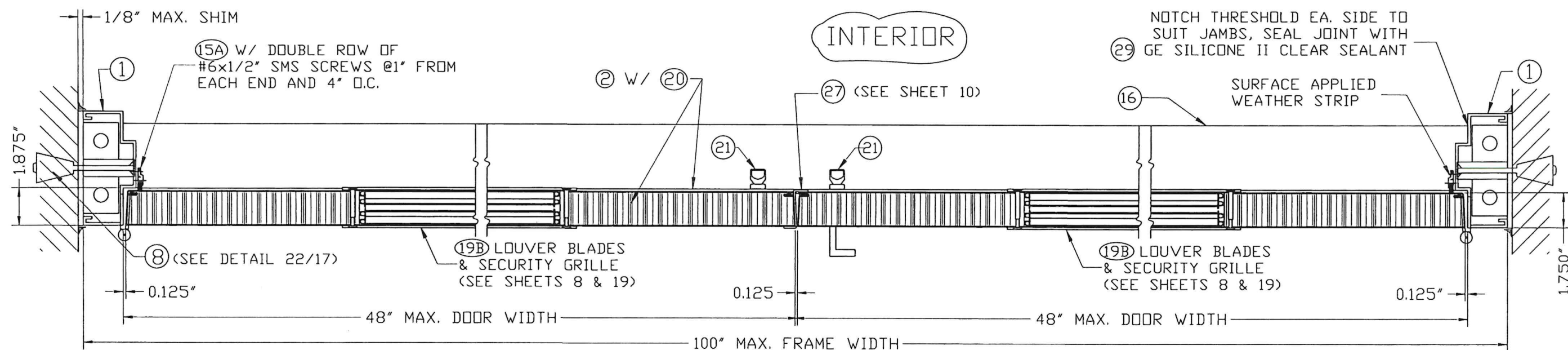
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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.					W.H. DRAWN BY	
DAYBAR INDUSTRIES LTD					08/04/2026 DATE	
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204					26-242 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
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2			4			

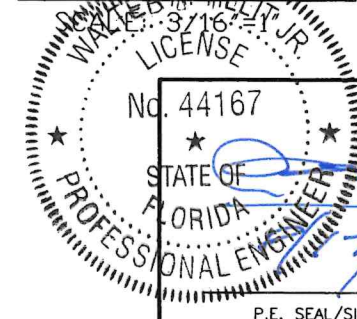


SECTION A-A

SCALE: 3/16"=1"



SECTION B-B



P.E. SEAL/SIGNATURE/DATE

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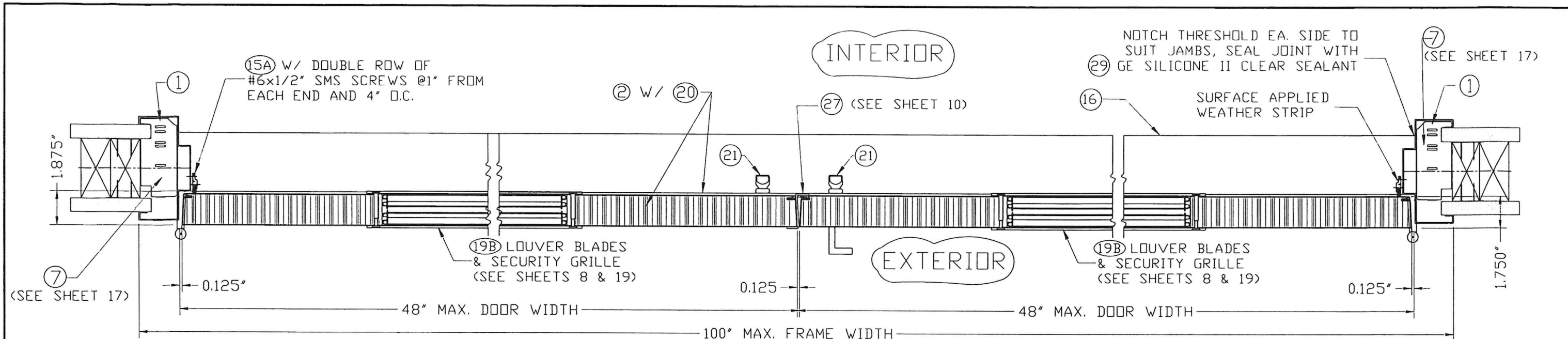
W.H.
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08/04/2026
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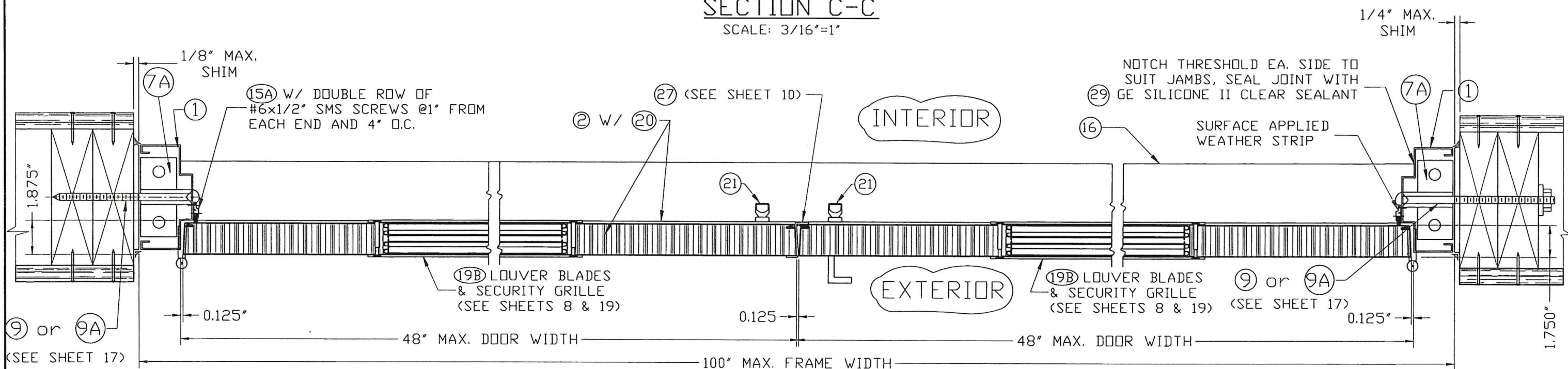
26-242
 DRAWING No

SHEET 5 OF 19

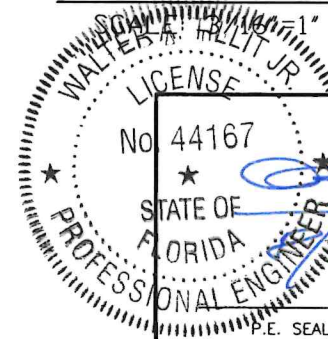
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2			4		



SECTION C-C
SCALE: 3/16"=1"



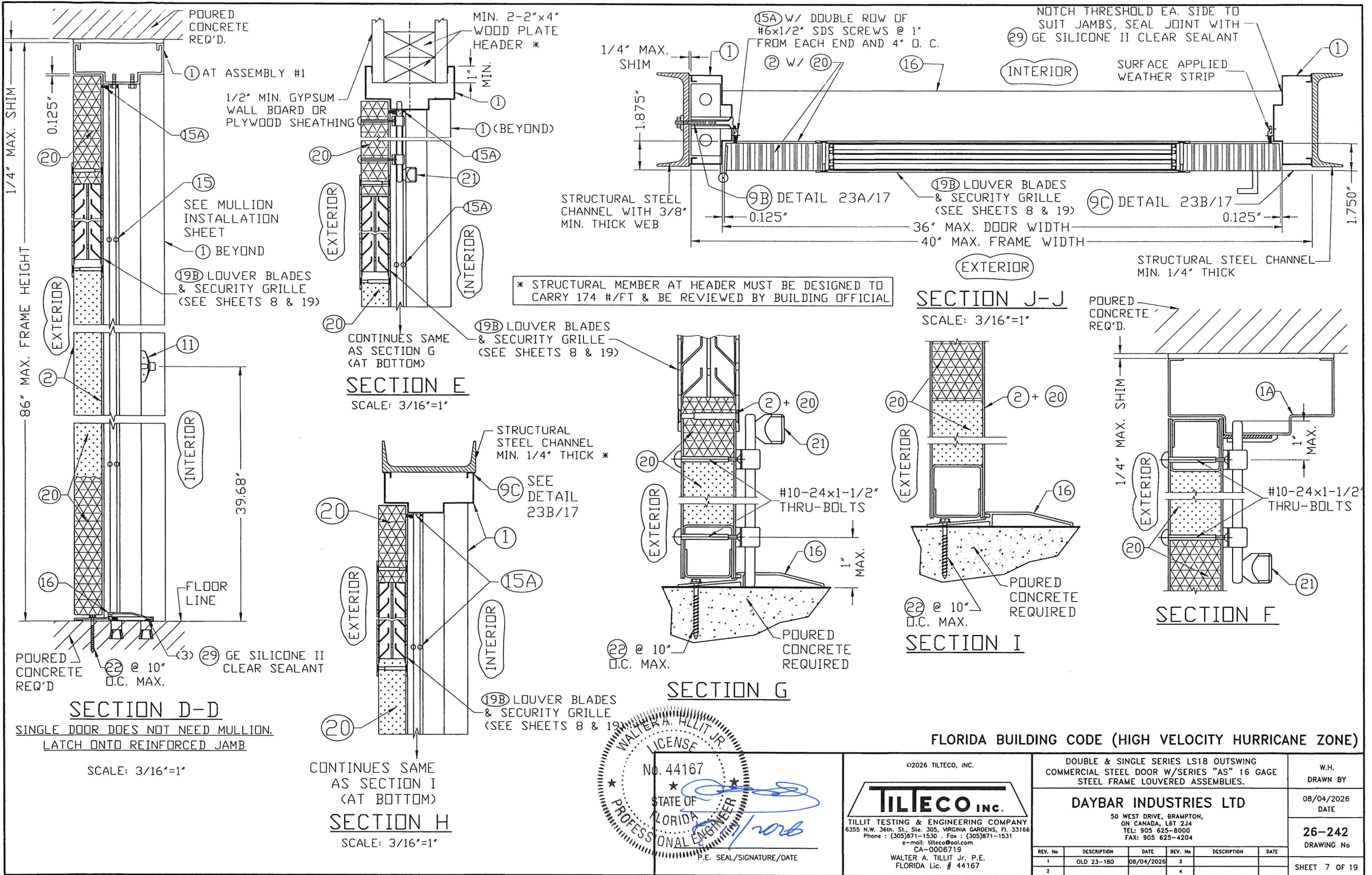
SECTION C'-C'

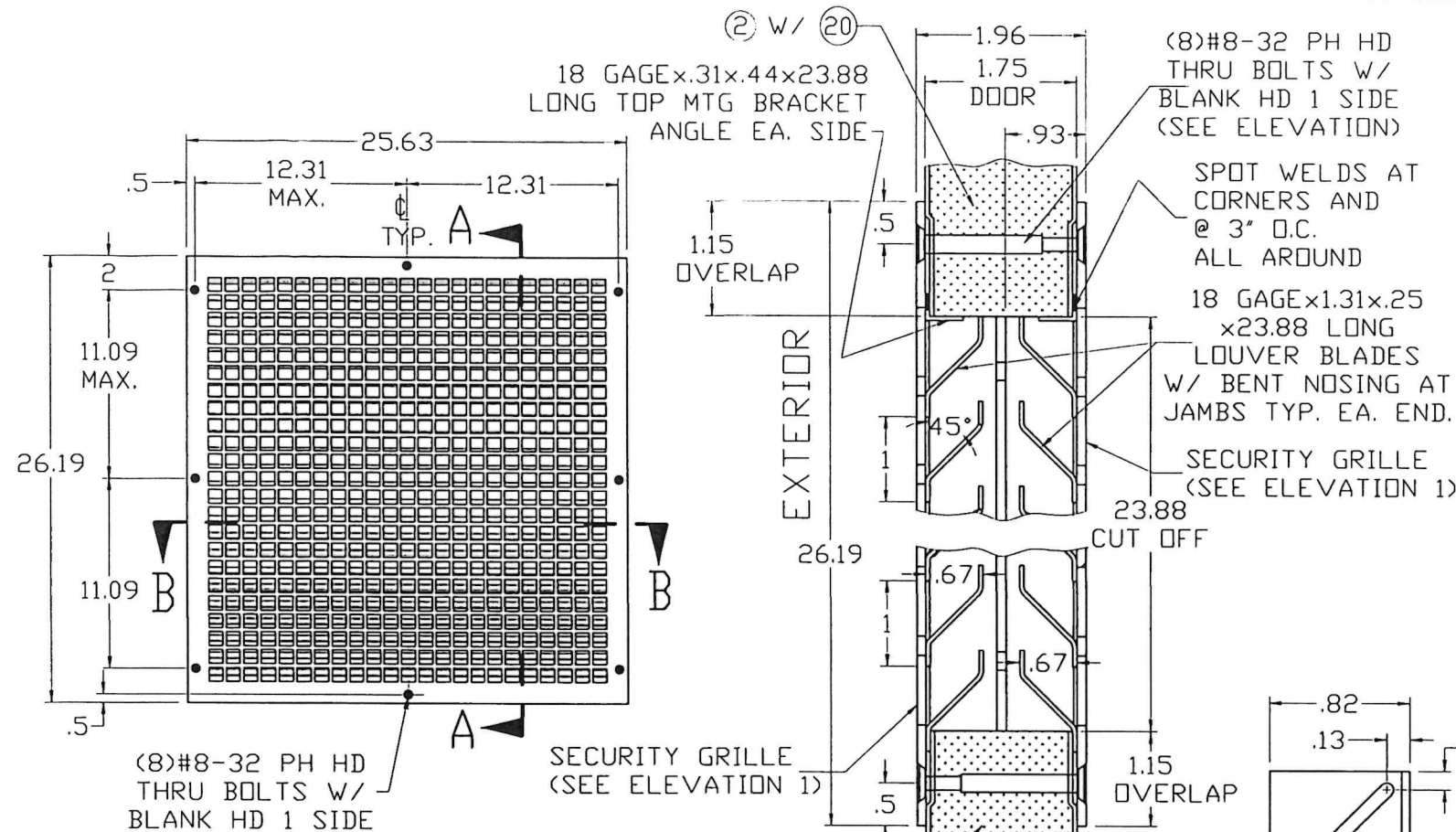


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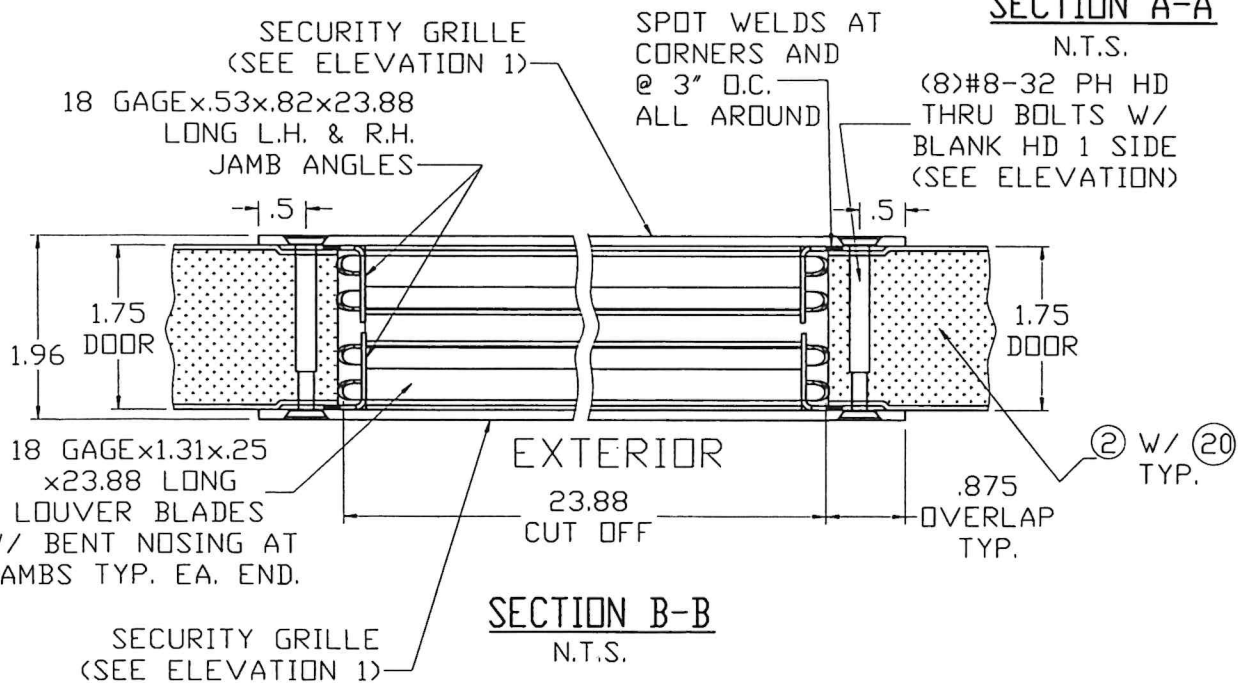
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DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.				W.H. DRAWN BY	
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204				08/04/2026 DATE	
				26-242 DRAWING No	
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1	OLD 23-180	08/04/2026	3		
2			4		





SECURITY GRILLE & LOUVER ASSEMBLY (ELEVATION)



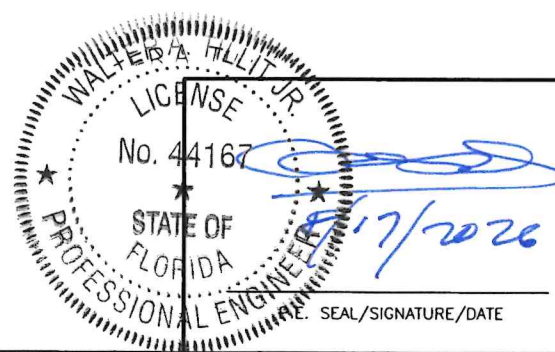
TYP. SLOTTED HOLES FOR LOUVER BLADE @ JAMBS

SCALE 1 : 1

19B MODEL 1500-A LOUVER 24"W X 24"H (MAX. 4 Ft² AREA) INVERTED "Y" BLADES C/W SECURITY GRILLE

NOTE: SEE MAX. A.S.D. DESIGN PRESSURE RATING ON SHEET 1

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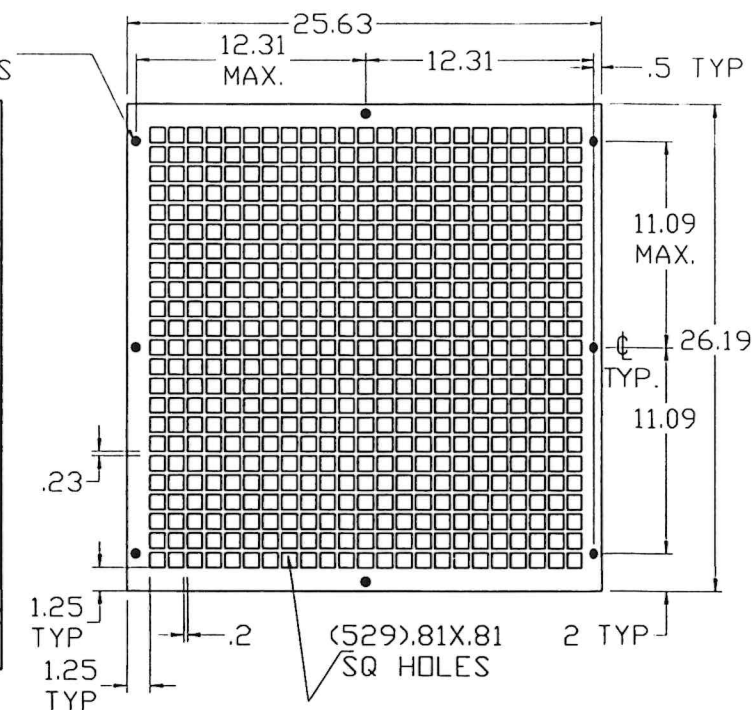
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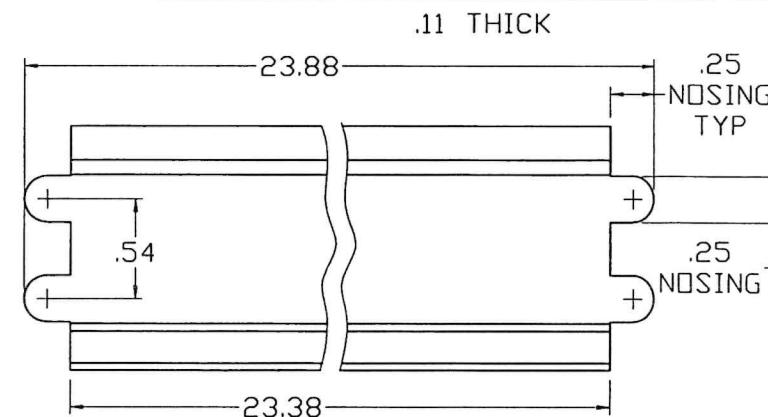
SHEET 8 OF 19

AIR LOUVERS, INC. MODEL 1500-A LOUVER & SECURITY GRILLE SPECIFICATIONS

MODEL: #1500-A
MATERIAL: 18 GAUGE CRS FRAME (MIN. Fy=45 ksi) AND LOUVER BLADES; 12 GAUGE (MIN. Fy=45 ksi) CRS SECURITY GRILLE
CONSTRUCTION: MITERED AND WELDED CORNERS; SECURITY GRILLE ON INTERIOR AND EXTERIOR OF LOUVER WITH 13/16" SQUARE OPENING 1" ON CENTER.
FINISH: BAKED ON POWDER COAT.
FASTENERS: #8-32 PHILIPS HEAD THRU BOLTS WITH BLANK HEAD ONE SIDE.
FREE FLOW AREA: 40 % FREE AREA.



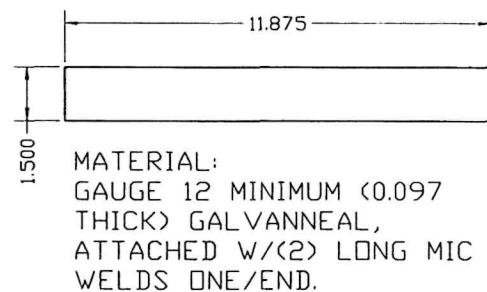
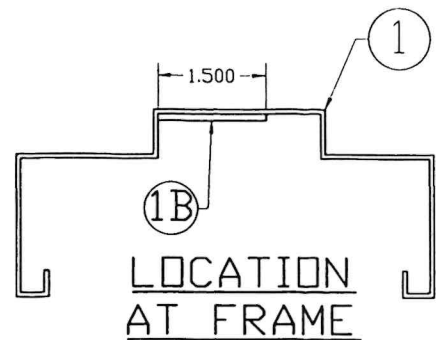
SECURITY GRILLE ELEVATION 1



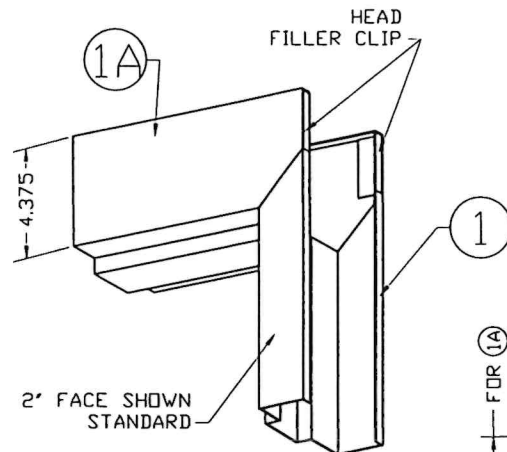
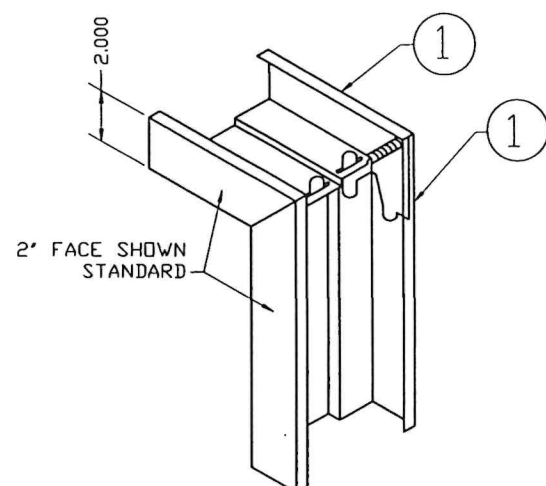
ELEVATION

TYP. LOUVER BLADE DETAIL

SCALE 1 : 1

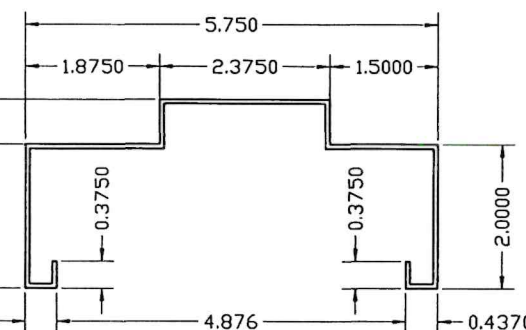


1B SURFACE STRIKE REINFORCING



1. DIE MITERED CORNER CONT. WELDED INSIDE FACES & AT RETURNS
2. CAULK COMPLETE INSIDE CORNER WITH 29 GE SILICONE II

DETAIL 16 TYPICAL WELDED CORNER



MATERIAL:
GAUGE 16 MINIMUM (.057)
GALVANNEAL

1 TYPICAL JAMB & HEAD SECTION

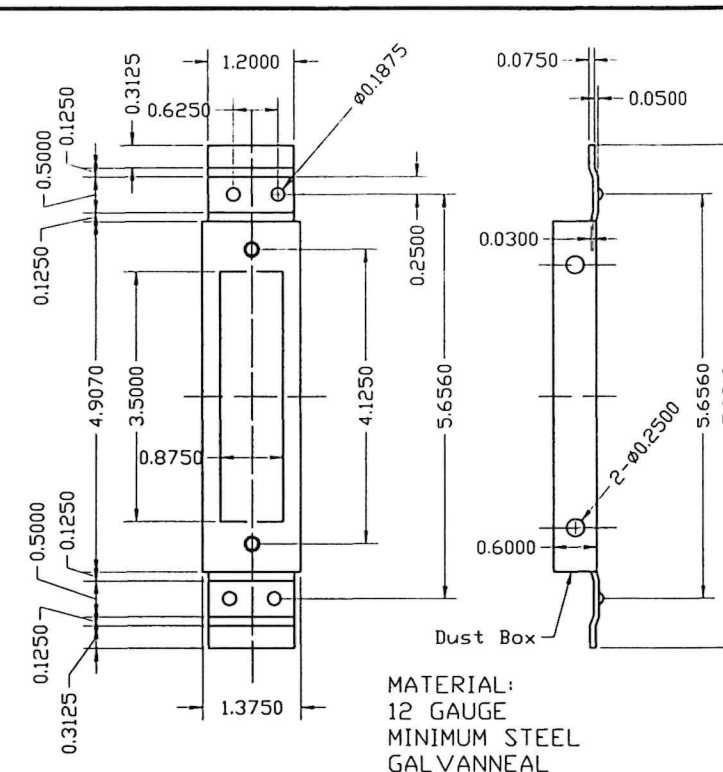
1A OPTIONAL HEAD SECTION

FRAME SECTIONS AND REINFORCING DETAILS



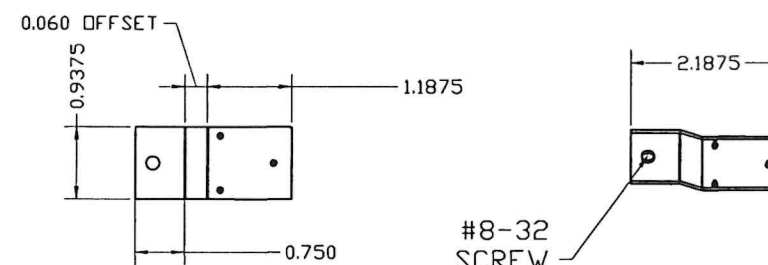
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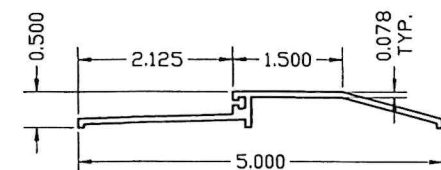
5 4 7/8" STRIKE REINFORCEMENT FOR FRAME DETAIL

ATTACHED W/ (4) 3/16" ϕ PROJECTION WELDS.



DEAD LOCK STRIKE TAB 14 GA (.074) MIN

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



16 EXTRUDED ALUMINUM THRESHOLD NGP #950NA

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DOUBLE & SINGLE SERIES LS18 OUTSWING
COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE
STEEL FRAME LOUVERED ASSEMBLIES.

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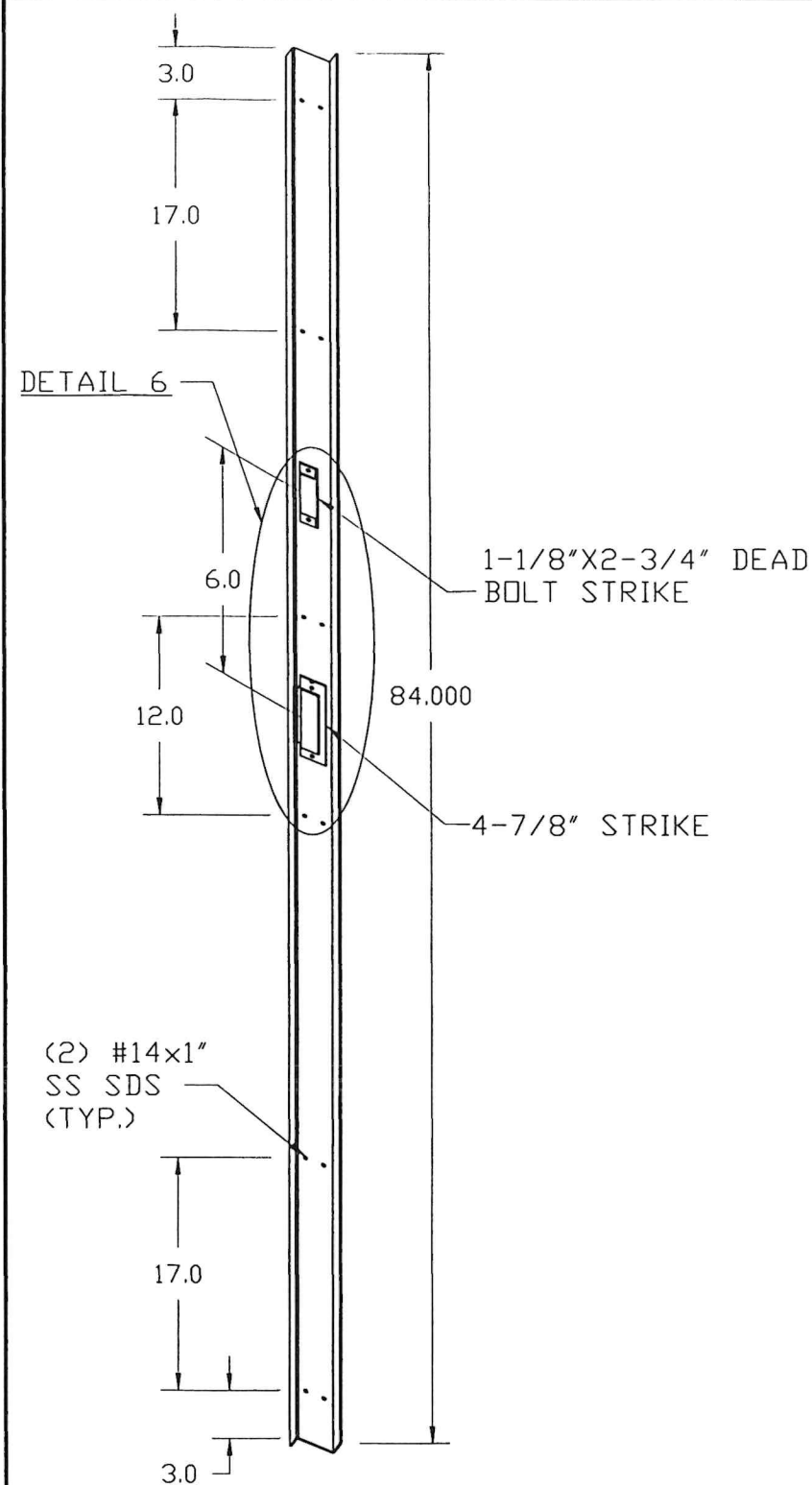
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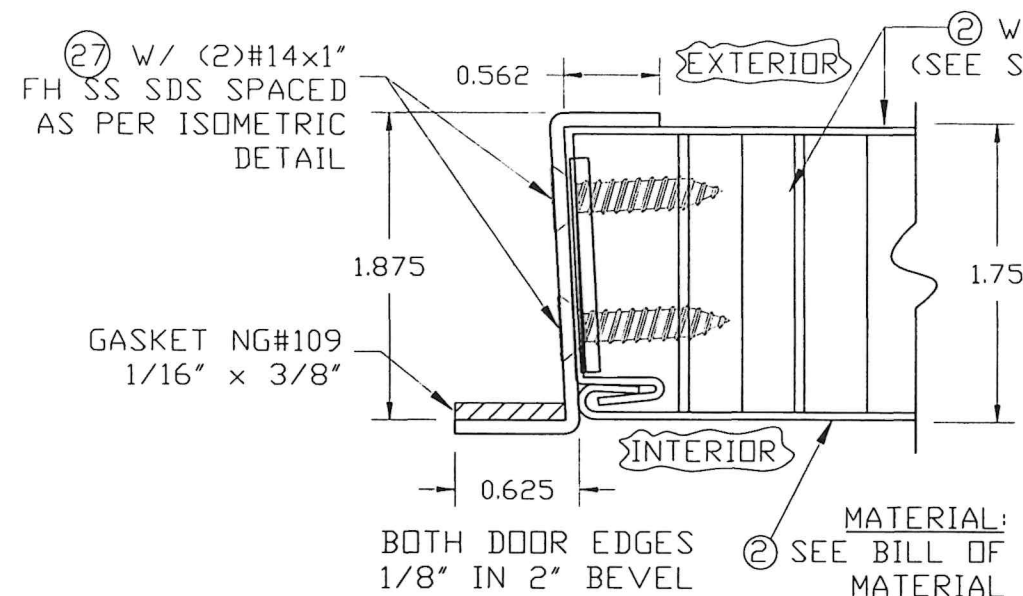
SHEET 9 OF 19

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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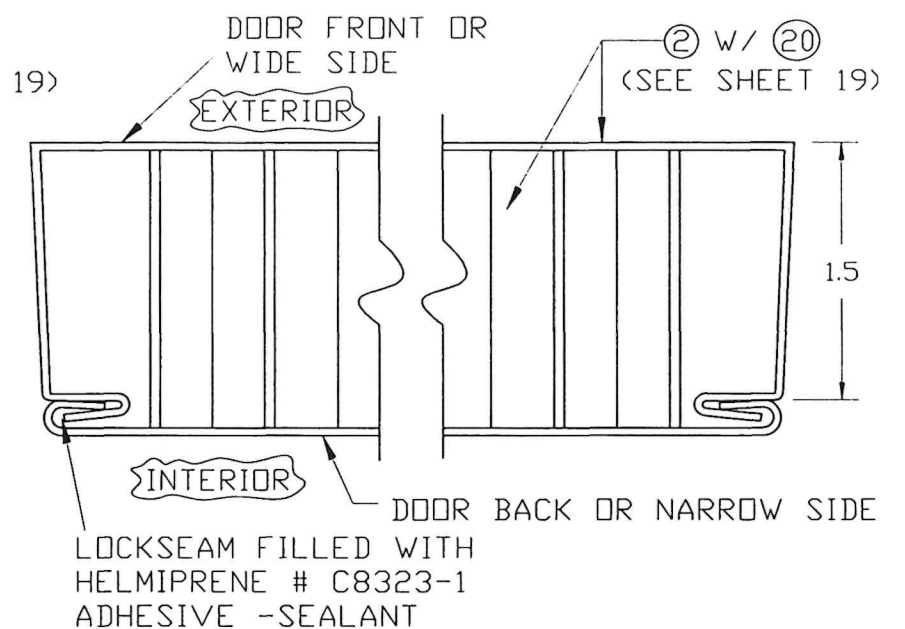


27 "Z" ASTRAGAL ISOMETRIC DETAIL

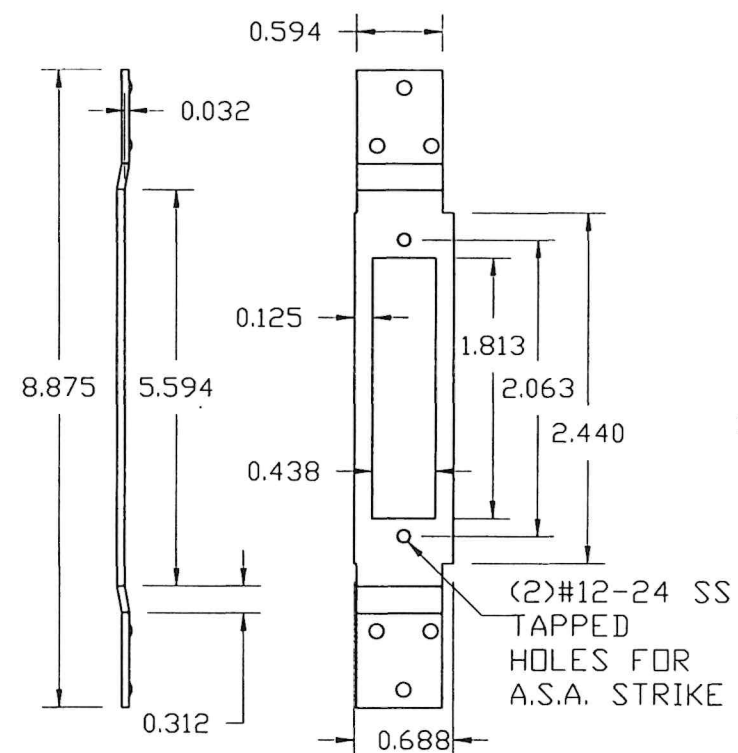
MATERIAL:
0.075" THICK STEEL



SECTION THRU ASTRAGAL AT DOUBLE DOOR

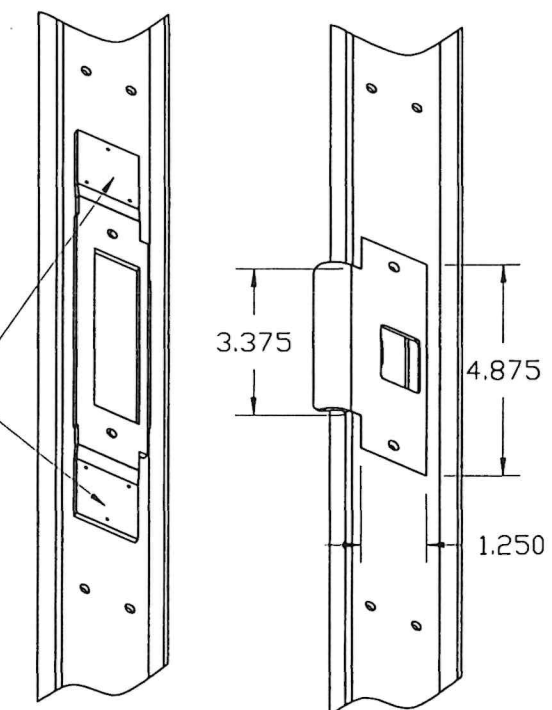


TYPICAL CROSS SECTION THRU DOOR



12 GAGE STEEL ASA 1299 STRIKE REINFORCEMENT FOR ASTRAGAL

12GA. STEEL ASA STRIKE REINFORCEMENT 3x1/8" PROJECTION WELD EACH SIDE



DETAIL 6

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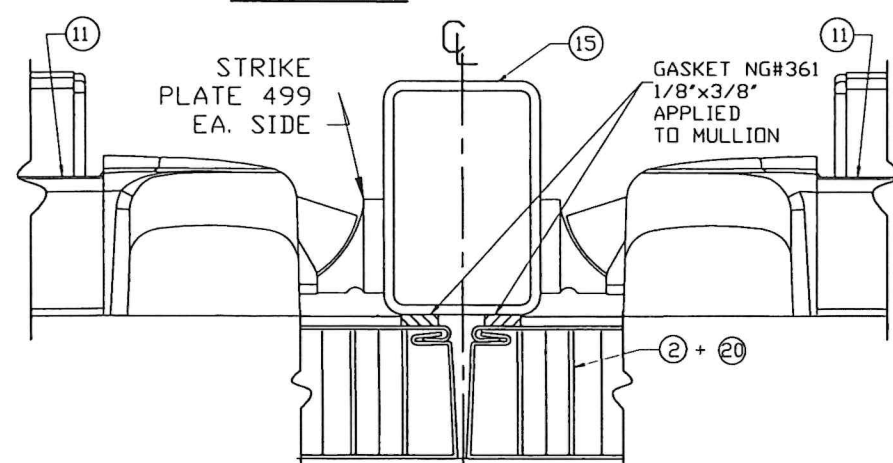
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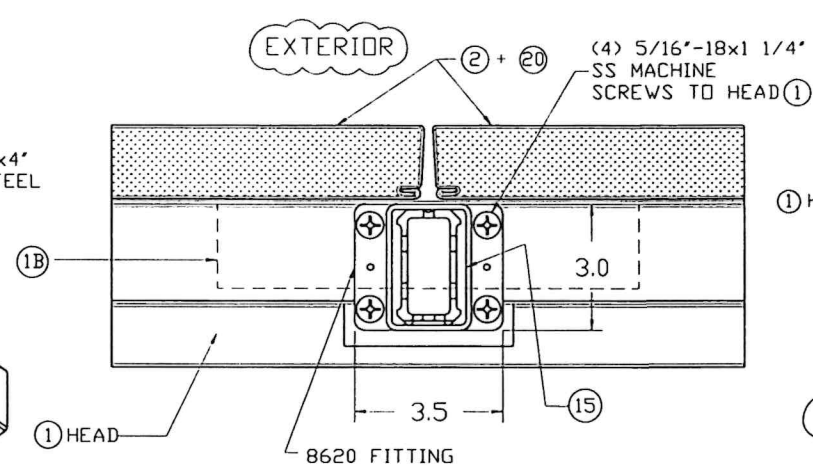
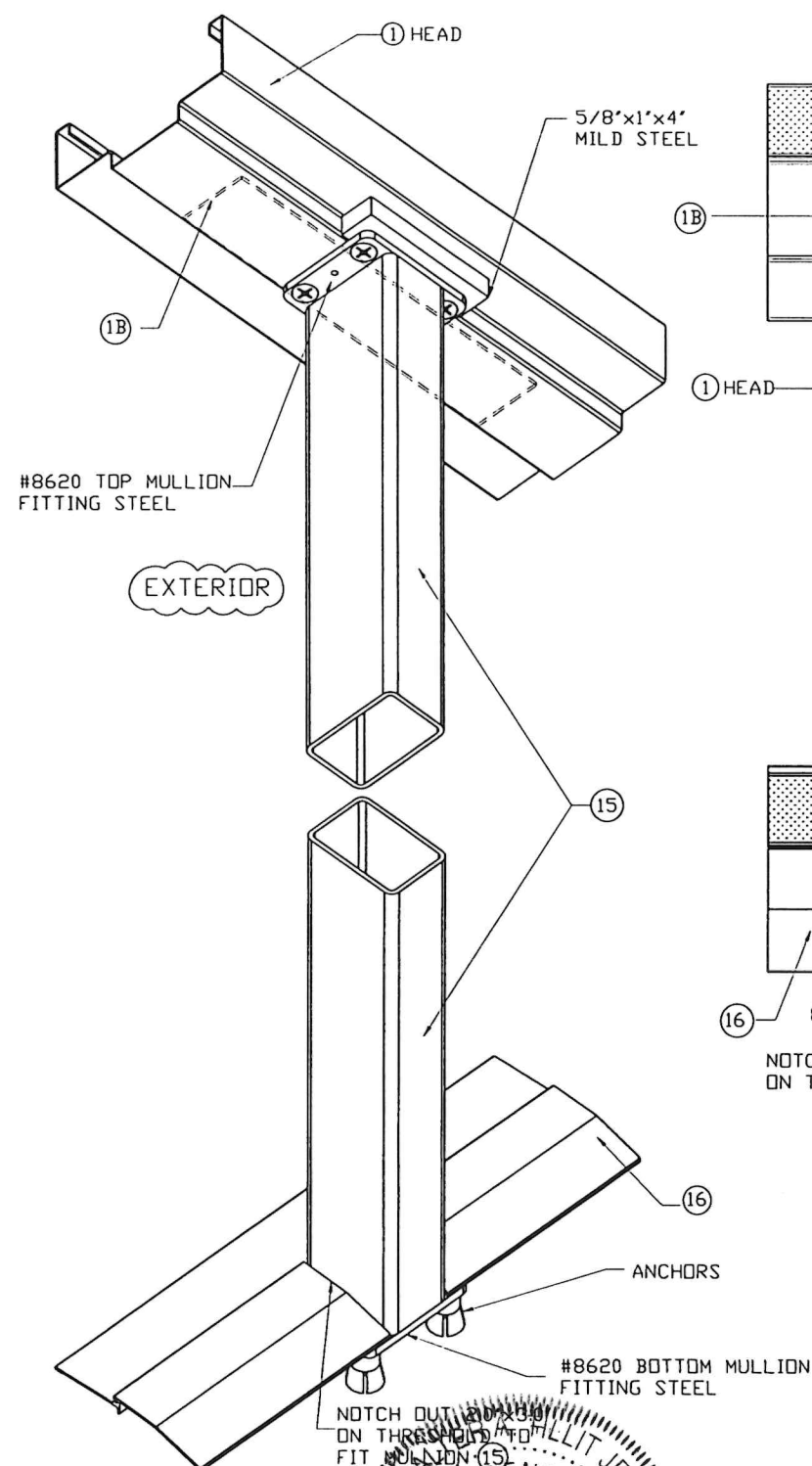
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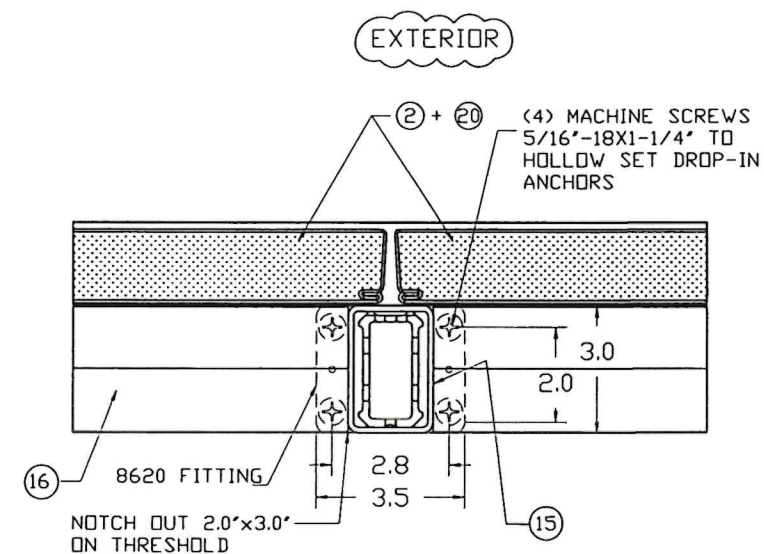


MULLION/DOOR SEAL

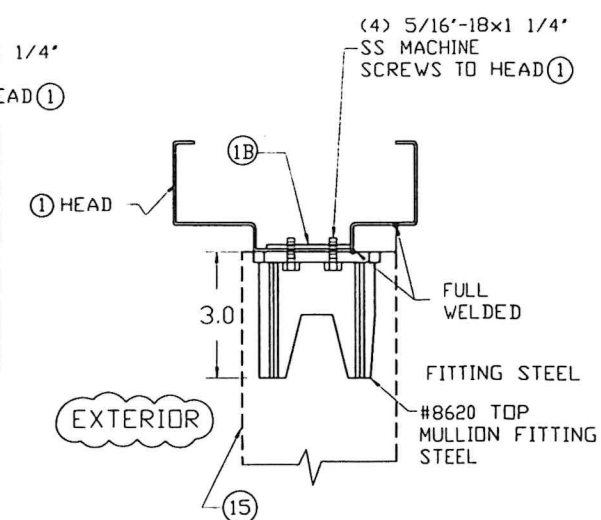
⑮ VON DUPRIN SERIES 9954 (W/ 499
STRIKE PLATE) MULLION INSTALLATION



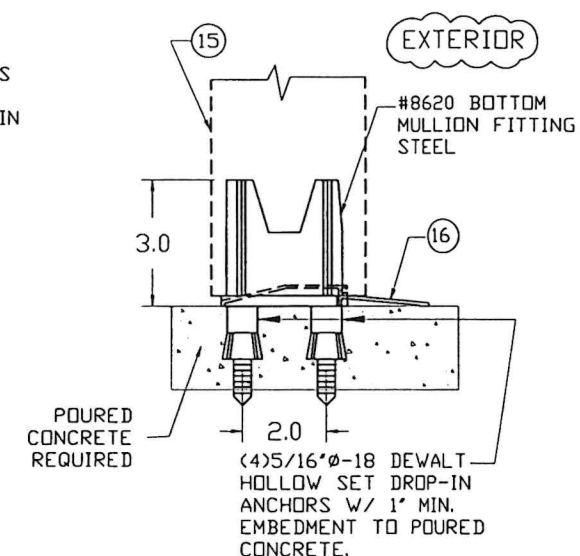
CONNECTION AT TOP (PLAN)



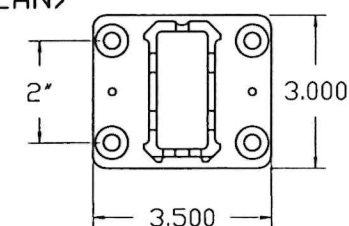
CONNECTION AT BOTTOM (PLAN)



SECTION



SECTION



MULLION FITTING
8620 STEEL

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

ON THRESHOLD TO
FIT MULATION (S)

WILLIAM H. MILLER JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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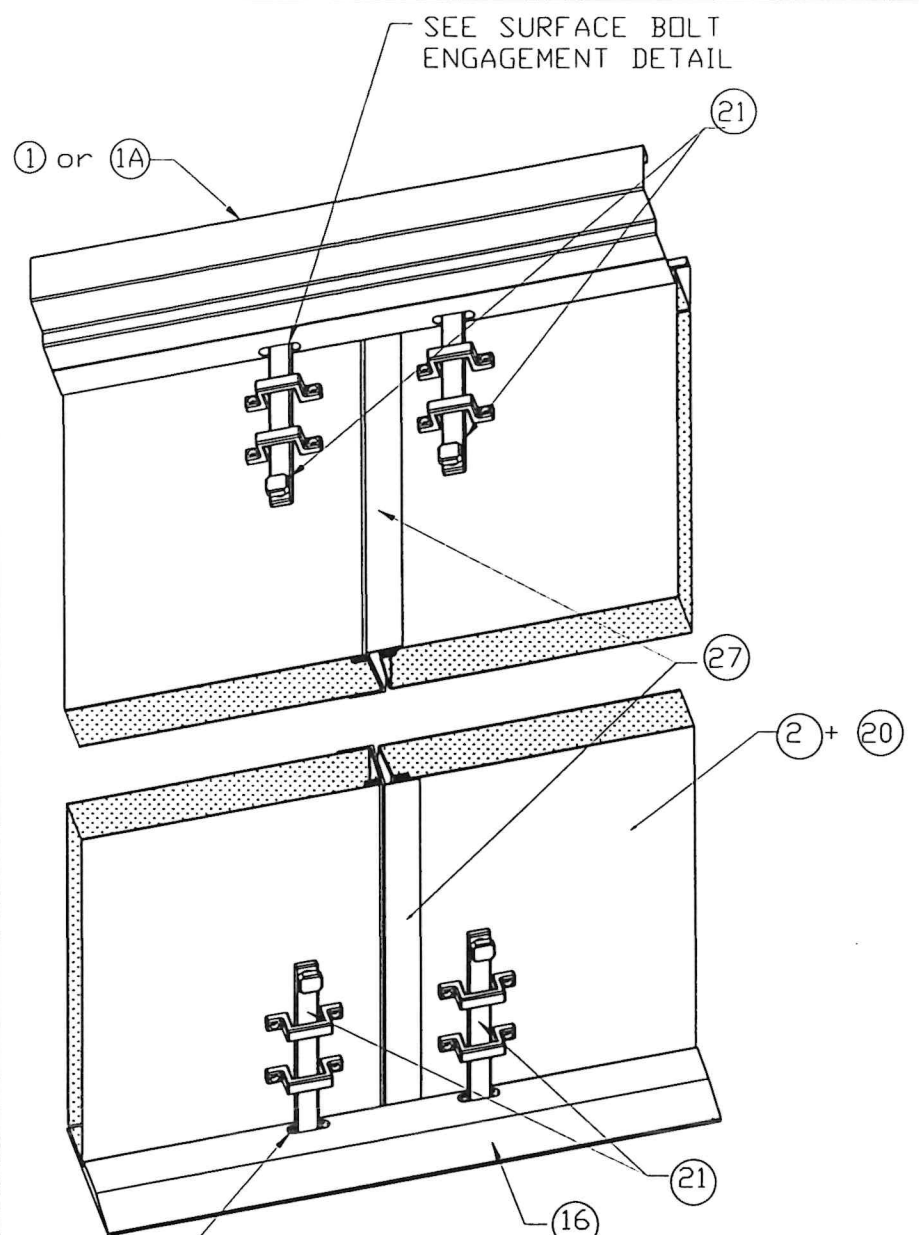
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DATE

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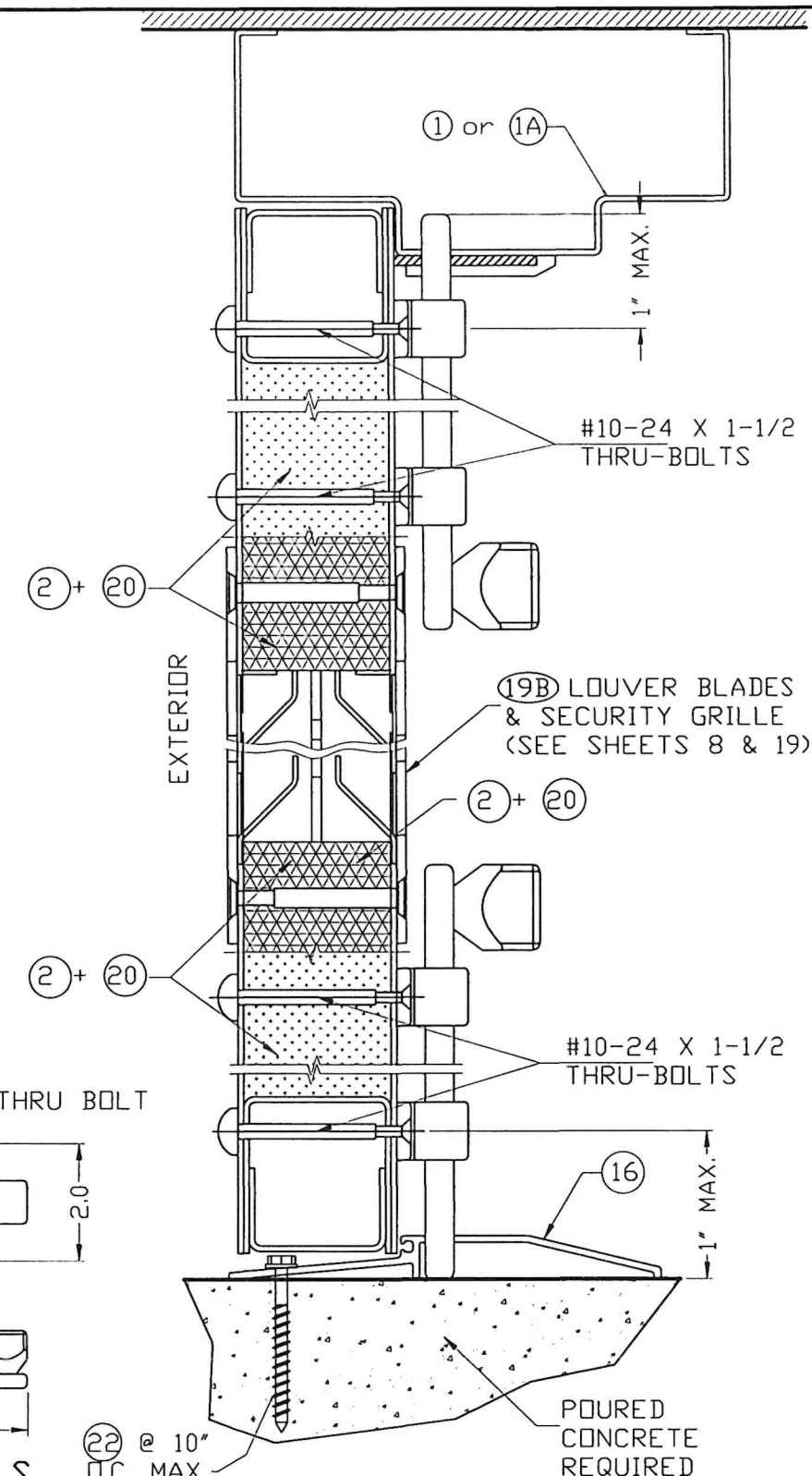
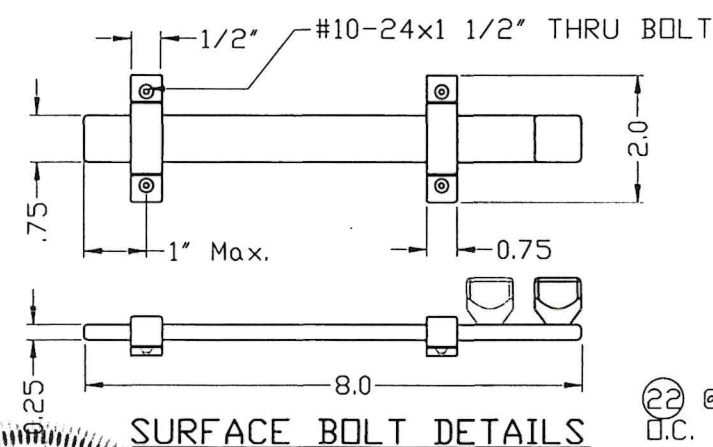
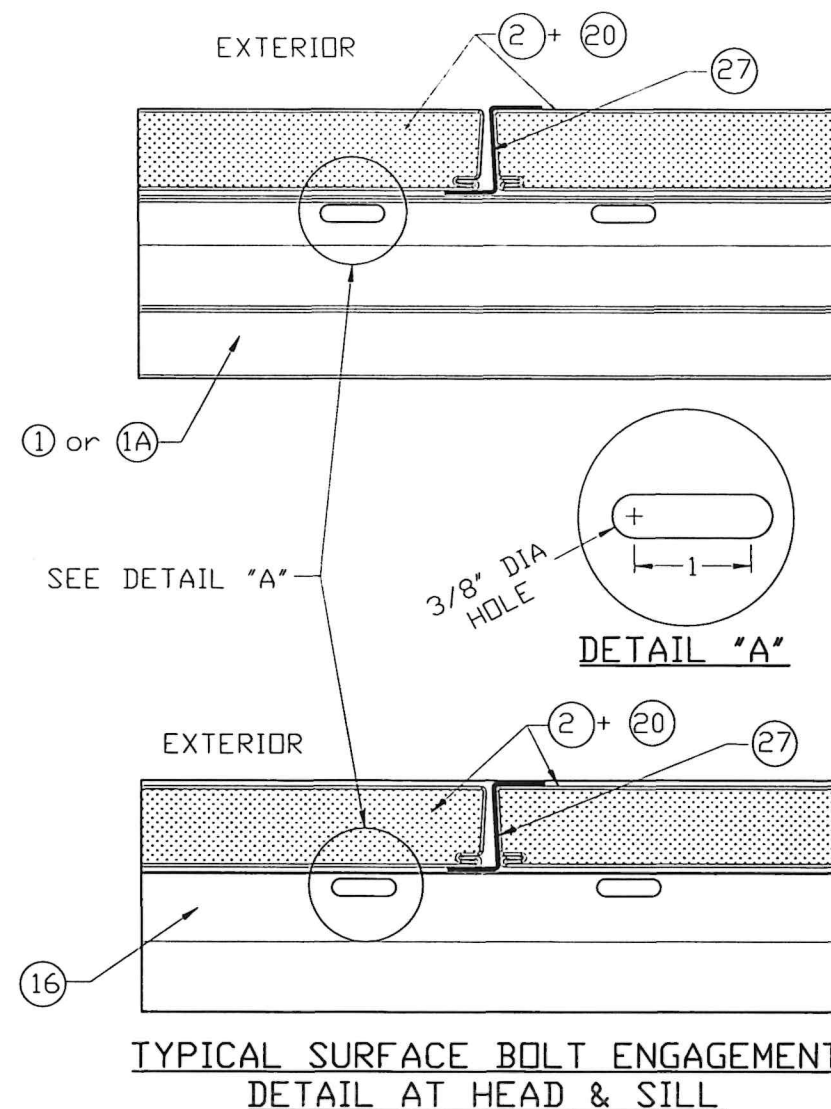
SHEET 11 OF 19



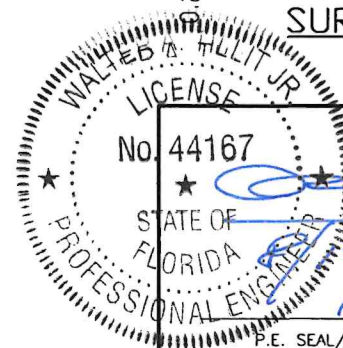
**SURFACE BOLT INSTALLATION
AT DOOR W/ ASTRAGAL (INTERIOR VIEW)**

NOTE:
SURFACE BOLT
MANUFACTURER-HAGER
MODEL #275D
MATERIAL-STEEL
FINISH US26D

**21 8" #275D HAGER
SURFACE BOLT**



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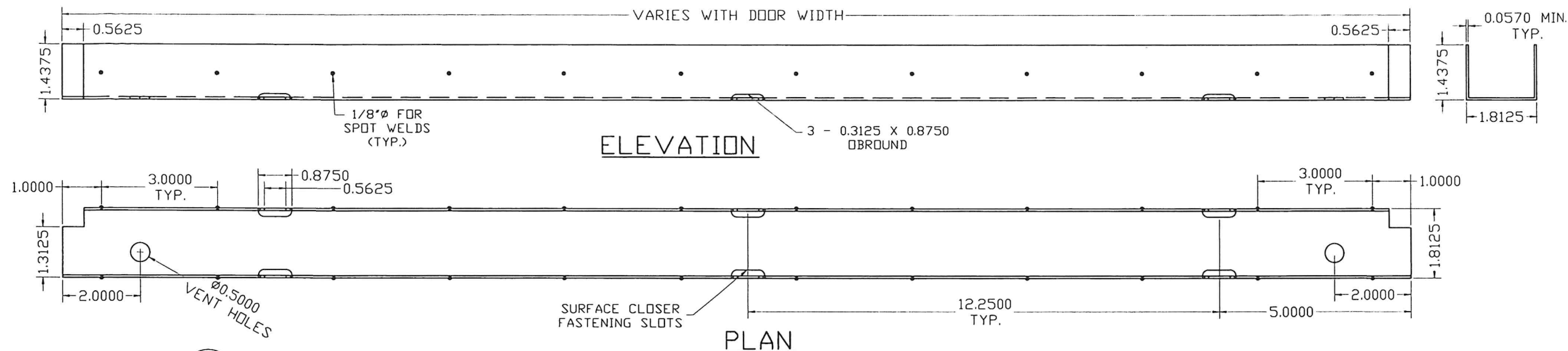
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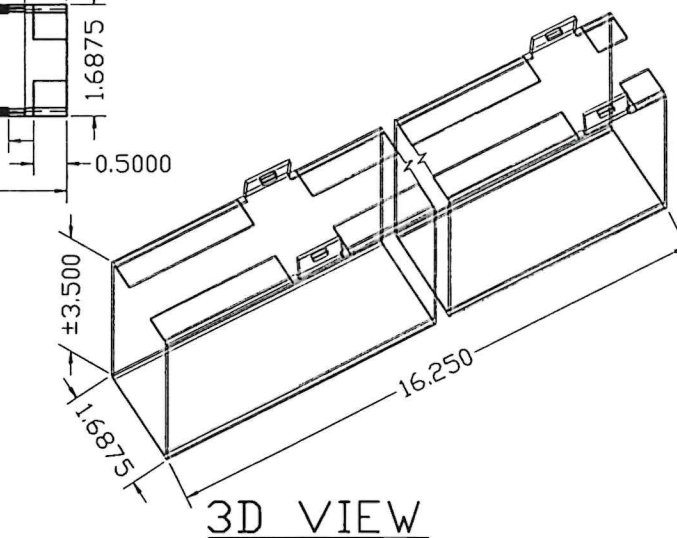
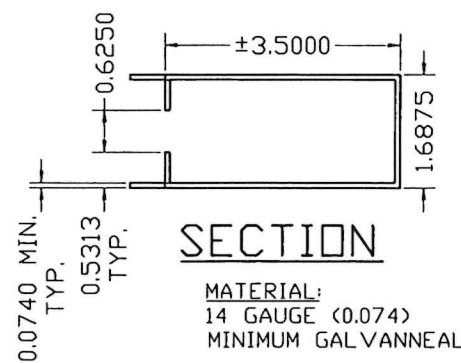
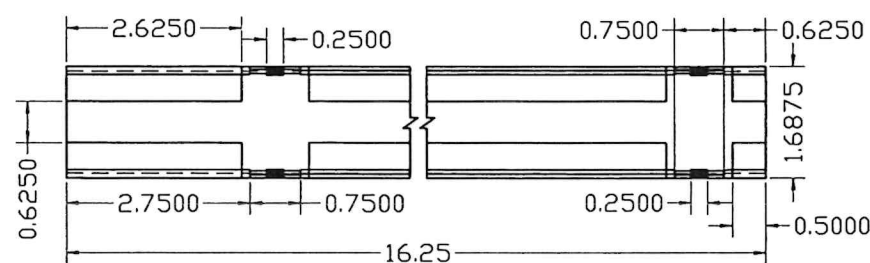
SHEET 12 OF 19

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2			4		



26 DOOR TOP AND BOTTOM TYPICAL END CHANNEL DETAIL

MATERIAL:
16 GAUGE (0.057) MINIMUM
GALVANNEAL STEEL



LAMINATED TO EACH FACE OF DOOR
W/ CONTACT ADHESIVE (HELHIBOND 8326-1)
AT HINGE EDGE AND TOP END CHANNEL.

25 DOOR SURFACE CLOSER REINFORCEMENT DETAIL

DOOR SURFACE CLOSER & END CHANNEL ASSEMBLY

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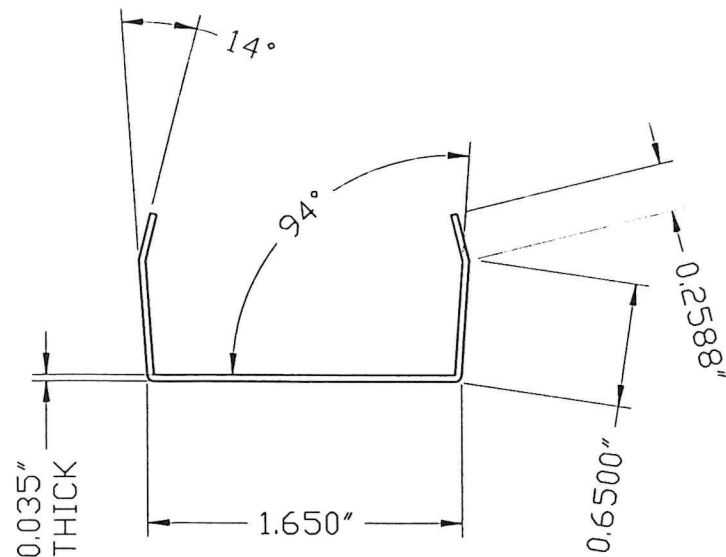
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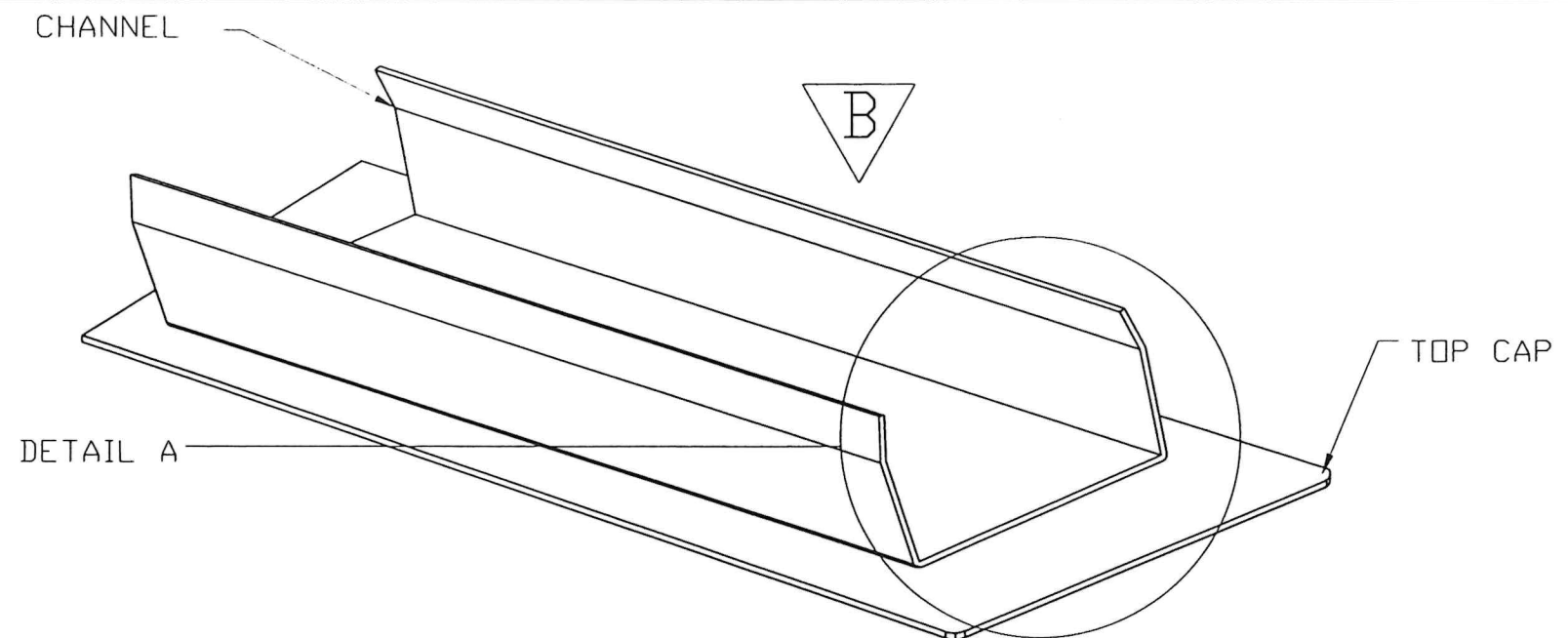
26-242
DRAWING No

SHEET 13 OF 19

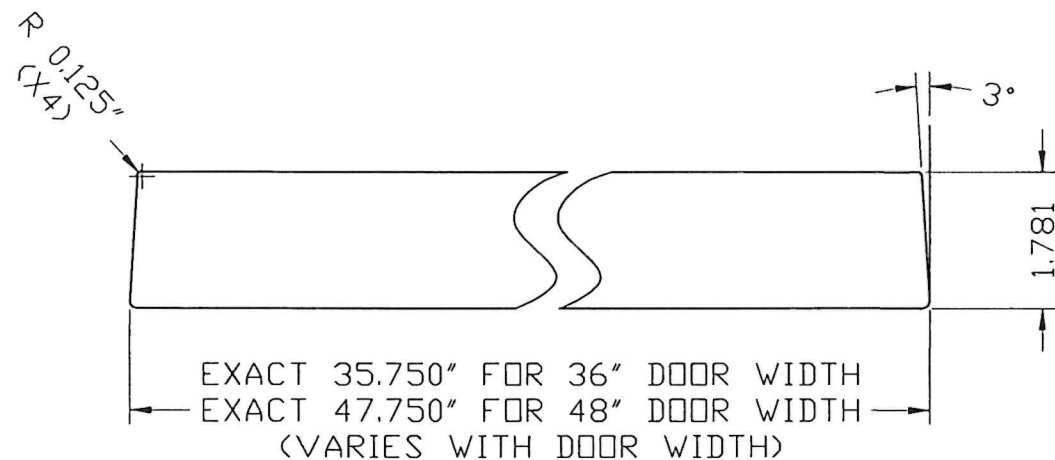
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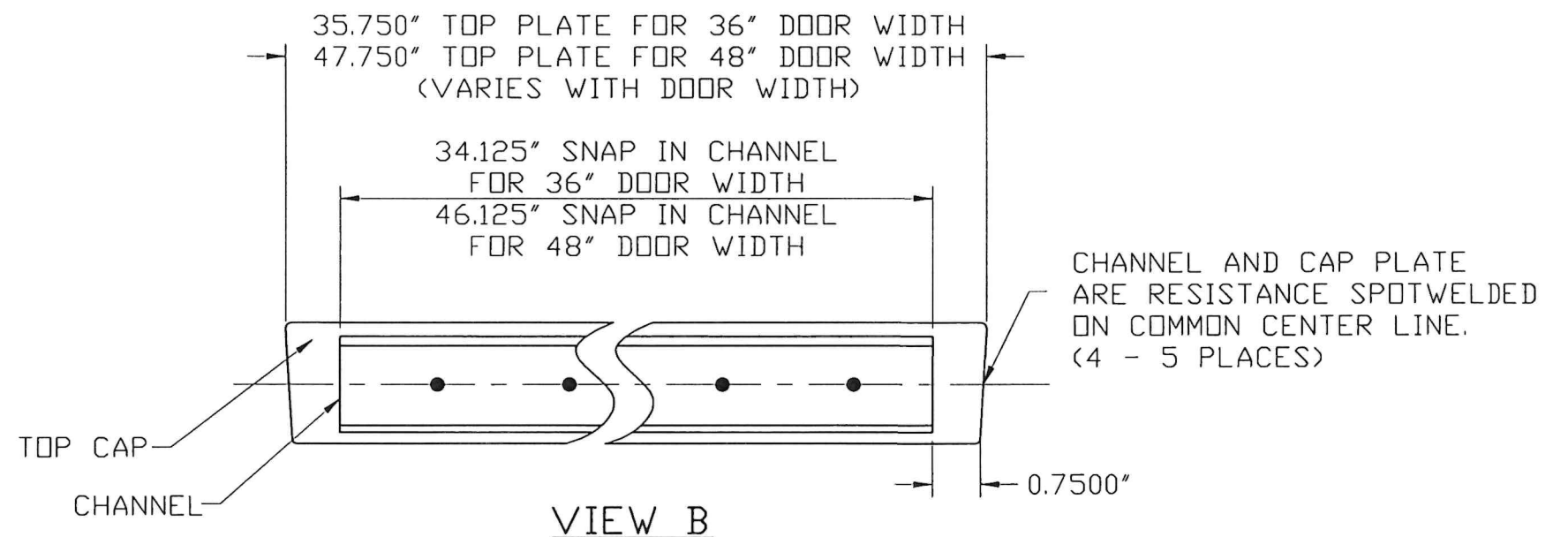
DETAIL A
SNAP IN CHANNEL



ASSEMBLY (ISOMETRIC)
(SNAP IN CHANNEL WITH TOP CAP)



STANDARD TOP CAP



VIEW B

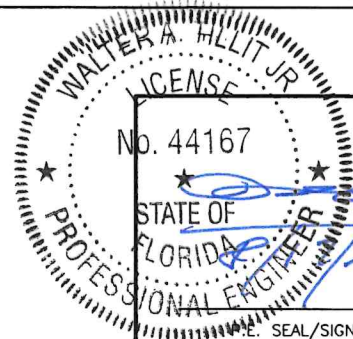
(28) DOOR SNAP IN TOP CAP DETAIL

MATERIAL: 20 GA GALVANNEAL STEEL FOR
BOTH PCS. ASTM A-653, A-60

INSTALLATION OPTIONS:

(A) CAULK AND PRESSFIT

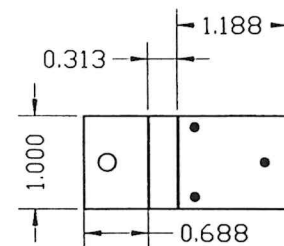
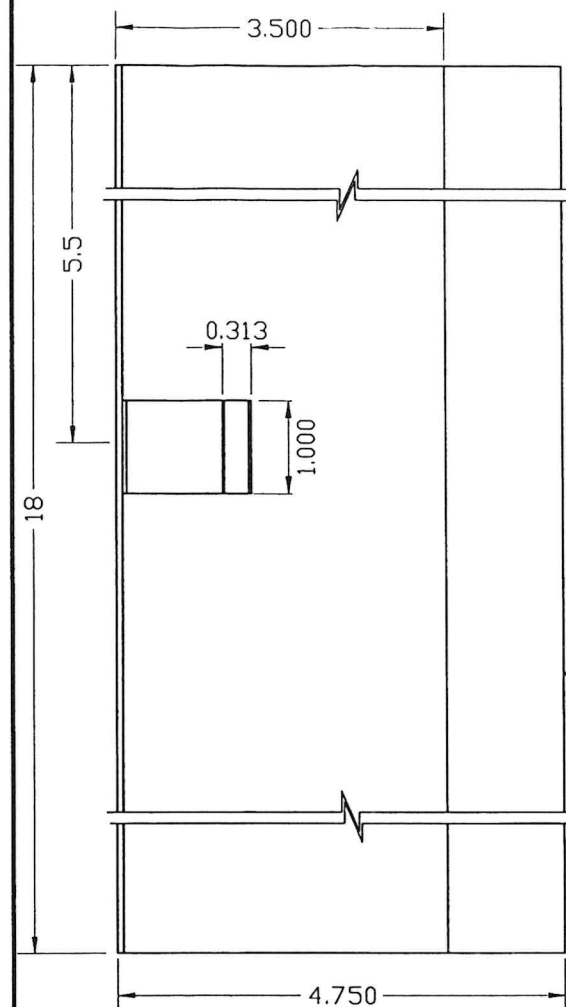
(B) CAULK, PRESSFIT AND TACK WELD



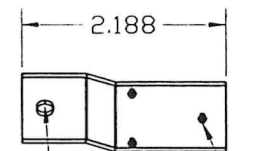
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILLIT TESTING & ENGINEERING COMPANY
6355 N.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

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.				W.H. DRAWN BY	
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204				08/04/2026 DATE	
				26-242 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-180	08/04/2026	3		
2			4		
				SHEET 14 OF 19	



#12-24
SCREW



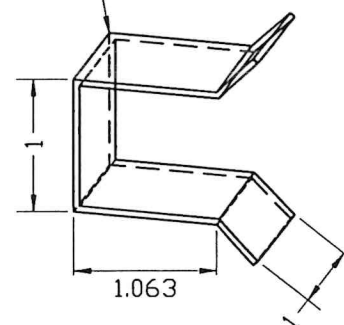
(3) 1/8"Ø
PROJECTION
WELDS

DOOR EDGE MOUNTING TAB

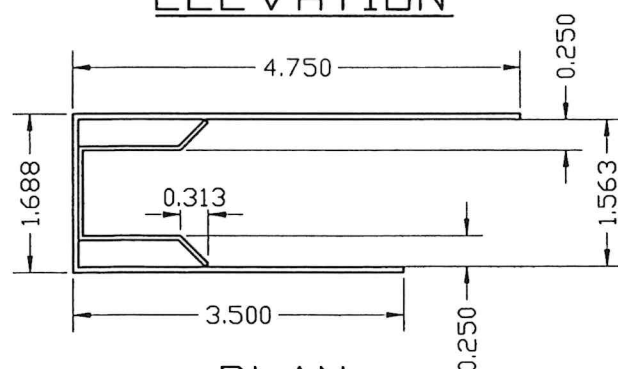
14 GA (0.074) MIN
STEEL

GAGE 14 (0.074) MINIMUM
RP REINFORCING SAME AS #86.
LESS LOCK CLIP & MOUNTING
TABS, GLUE W /CONTACT
ADHESIVE TO DOOR FACE

LOCK CLIP-18GA (0.045)
MIN. ONLY VALID FOR
ASSEMBLY WHERE
APPLICABLE



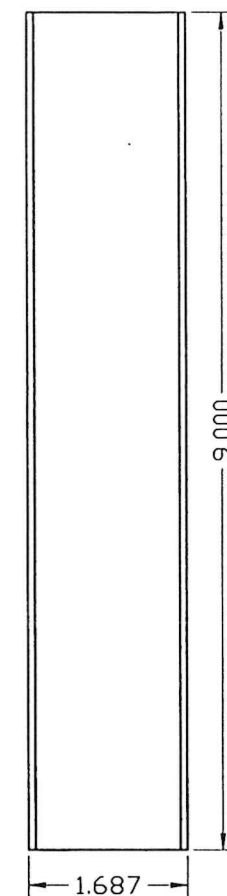
ELEVATION



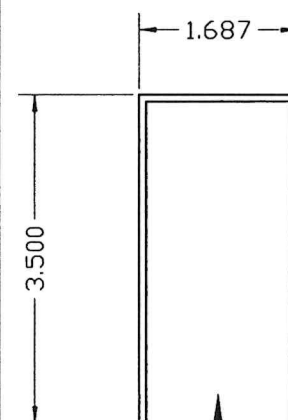
PLAN

MATERIAL:
ALL GALVANNEAL STEEL

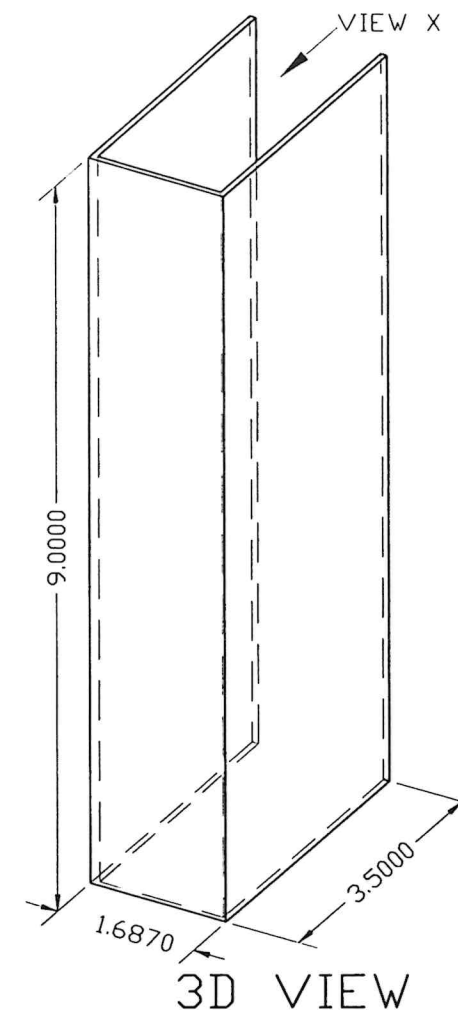
②③ ANSI #A115.1 #86 MORTISE
LOCK ⑫ /RIM PANIC ⑪ REINFORCING



VIEW X



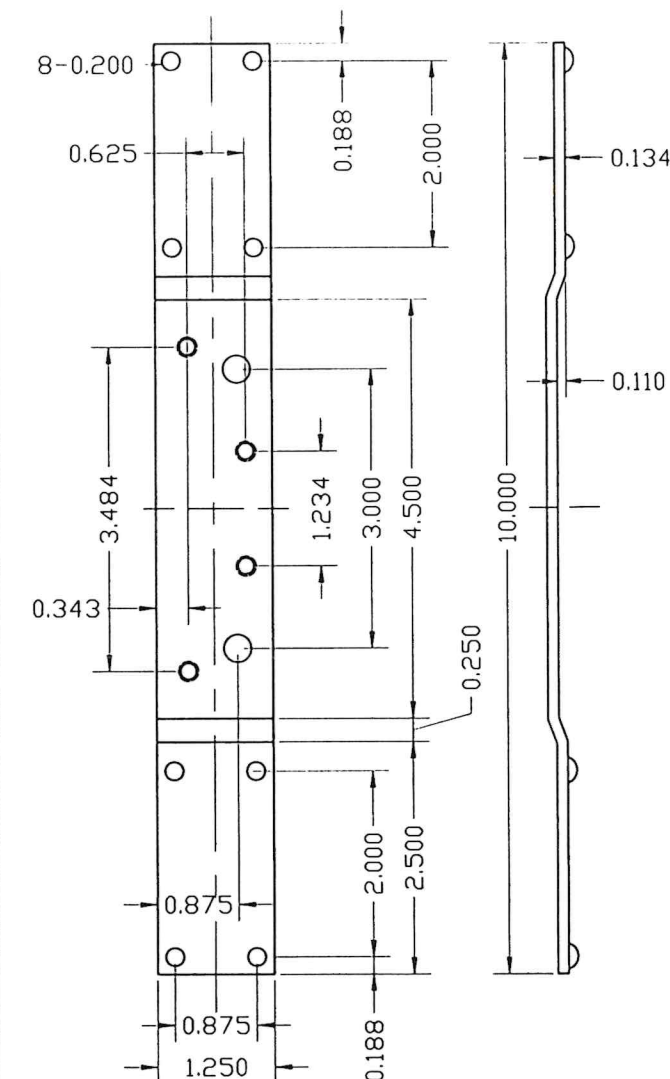
VIEW X



3D VIEW

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

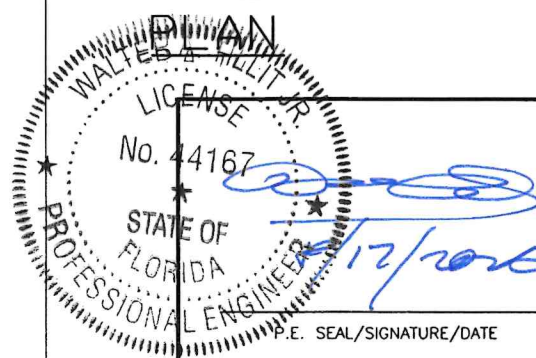
⑱ DOOR SURFACE BOLT REINFORCING DETAIL



⑰ 4 1/2" HINGE BAR REINFORCING FOR DOOR

MATERIAL:
8 GAUGE
GALVANNEAL STEEL

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

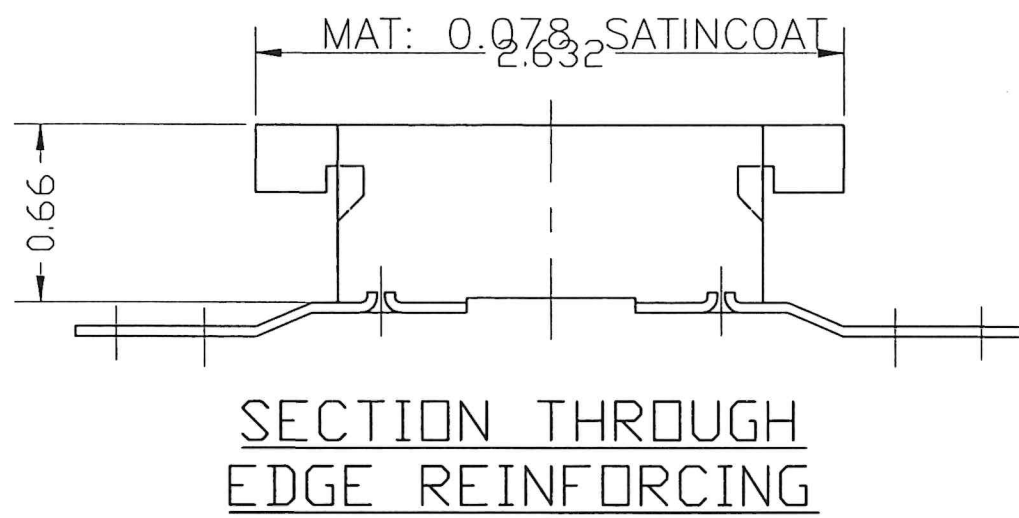
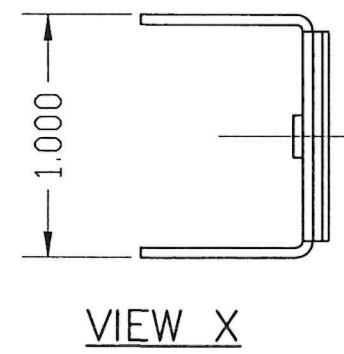
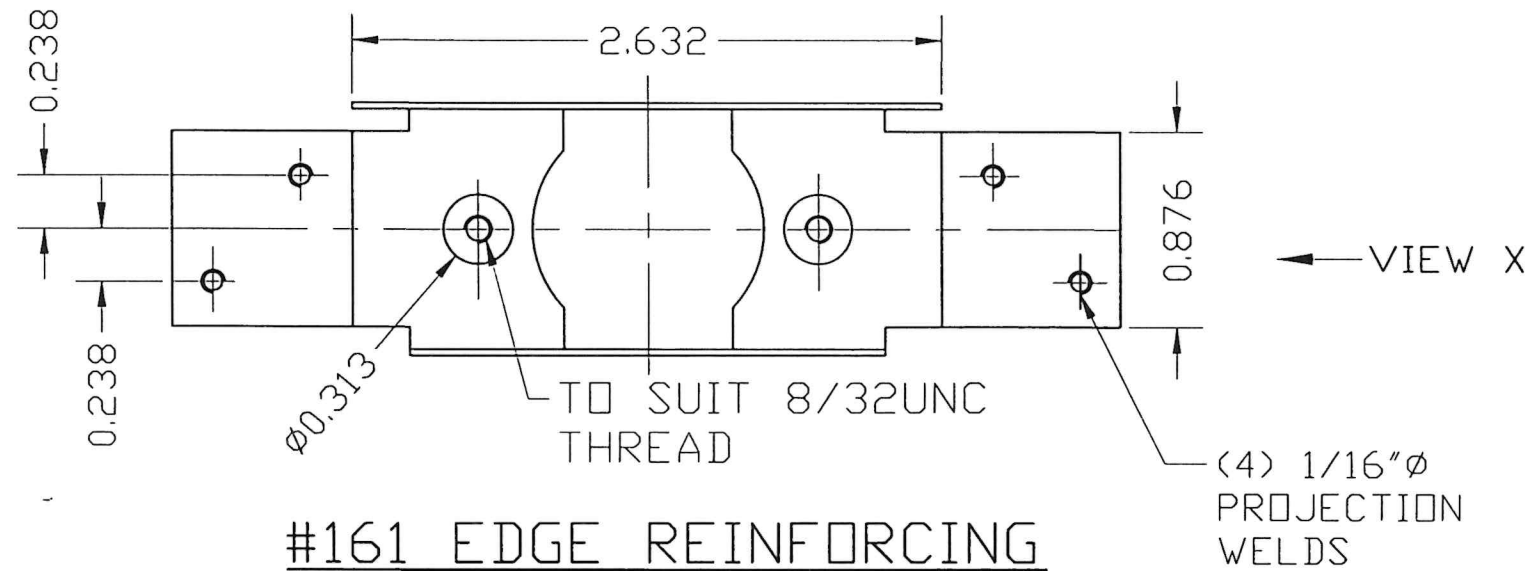
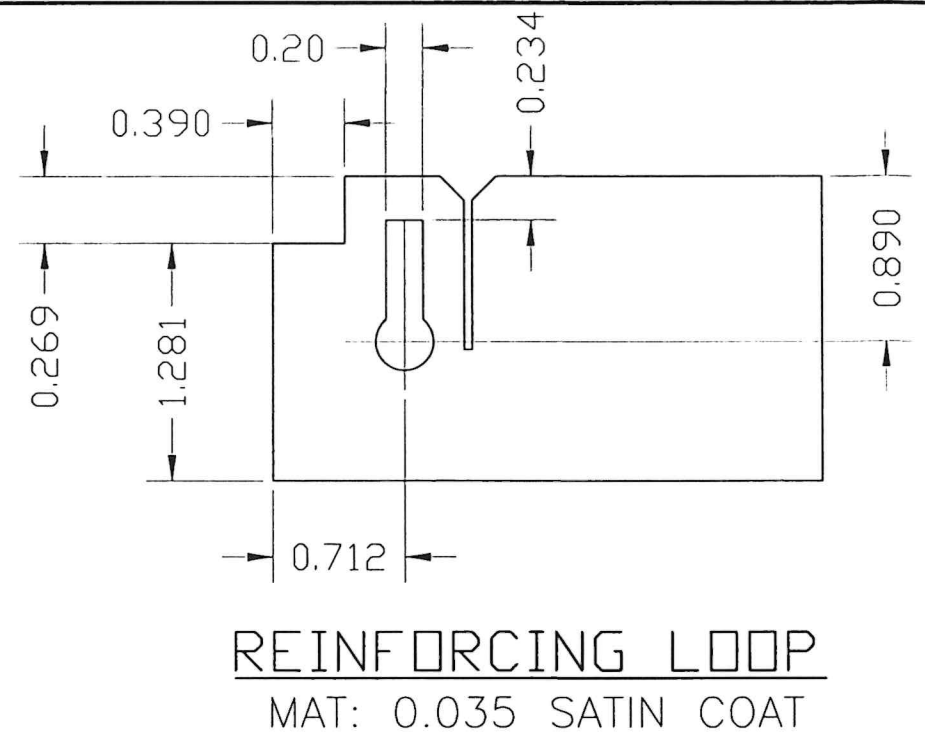
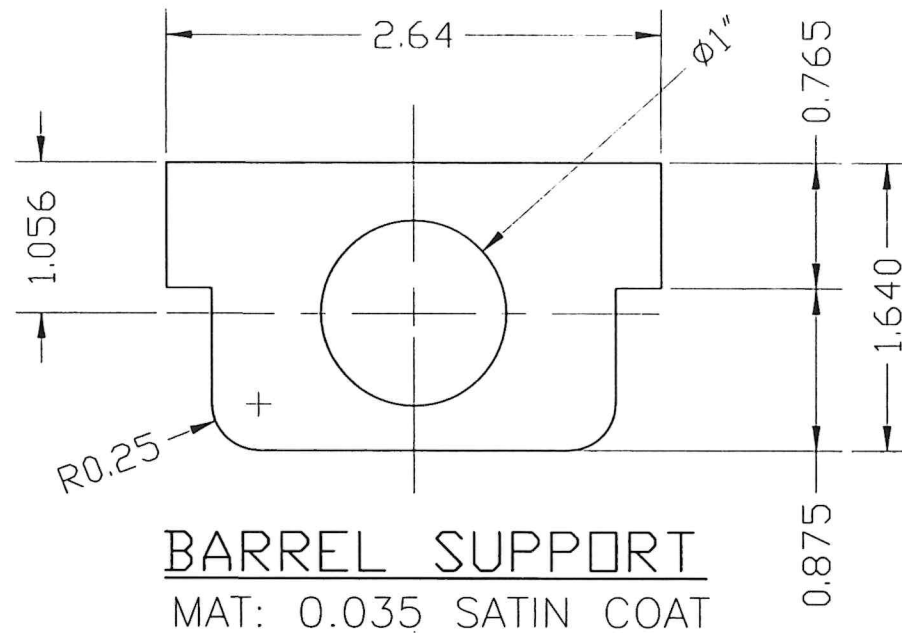
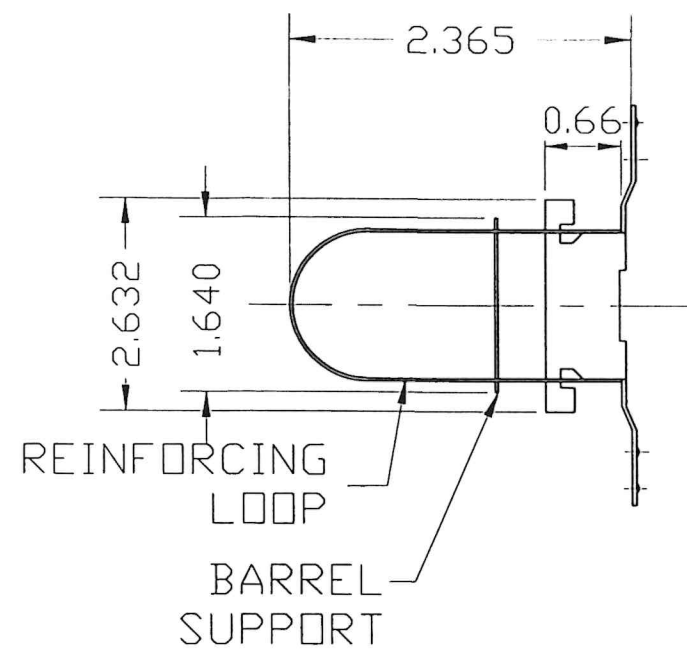


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DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.					W.H. DRAWN BY	
DAYBAR INDUSTRIES LTD					08/04/2026 DATE	
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204					26-242 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
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2			4			



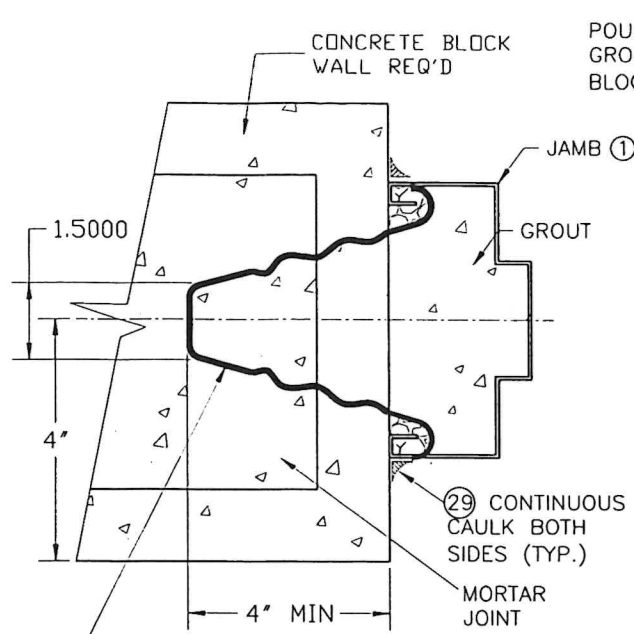
(24) #161 CYLINDRICAL LOCK AND DEAD BOLT
REINFORCEMENT DETAIL

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

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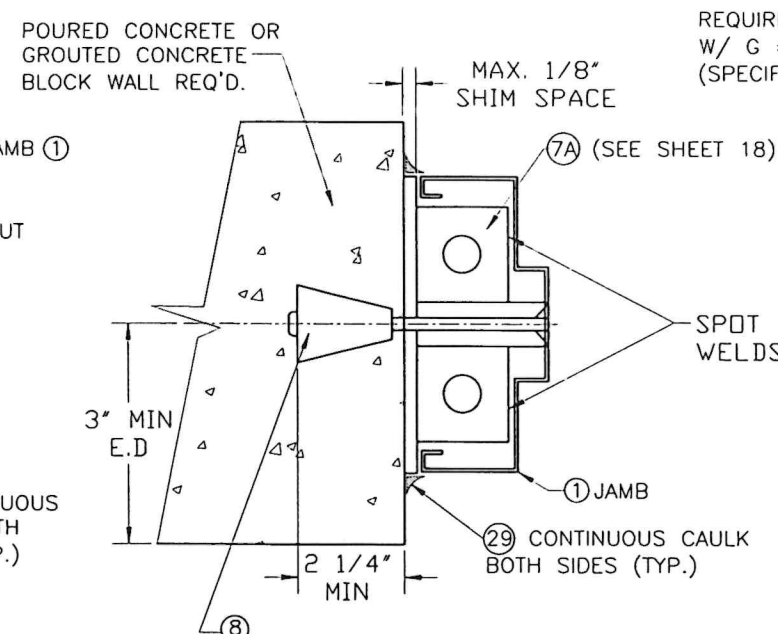
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE STEEL FRAME LOUVERED ASSEMBLIES.					W.H. DRAWN BY
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-180	08/04/2026	3		
2			4		
					SHEET 16 OF 19

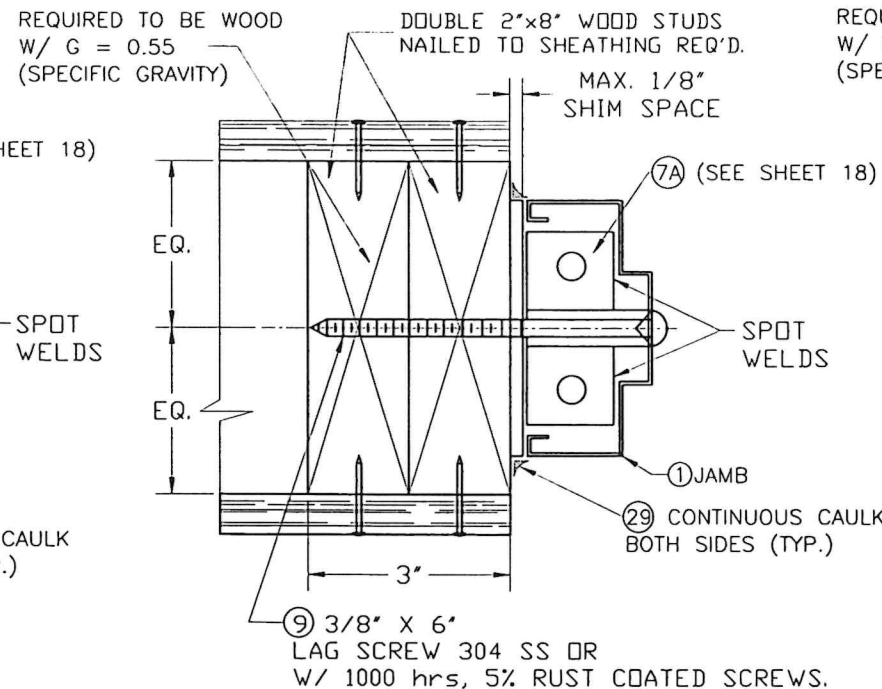


⑥ MASONRY WIRE ANCHORS IN HORIZ. MORTAR JOINTS; FILL JAMBS ① SOLID WITH GROUT PER ASTM C476 W/ MIN. COMPRESSION STRENGTH OF 2.5 KSI (SEE SHEET 18)

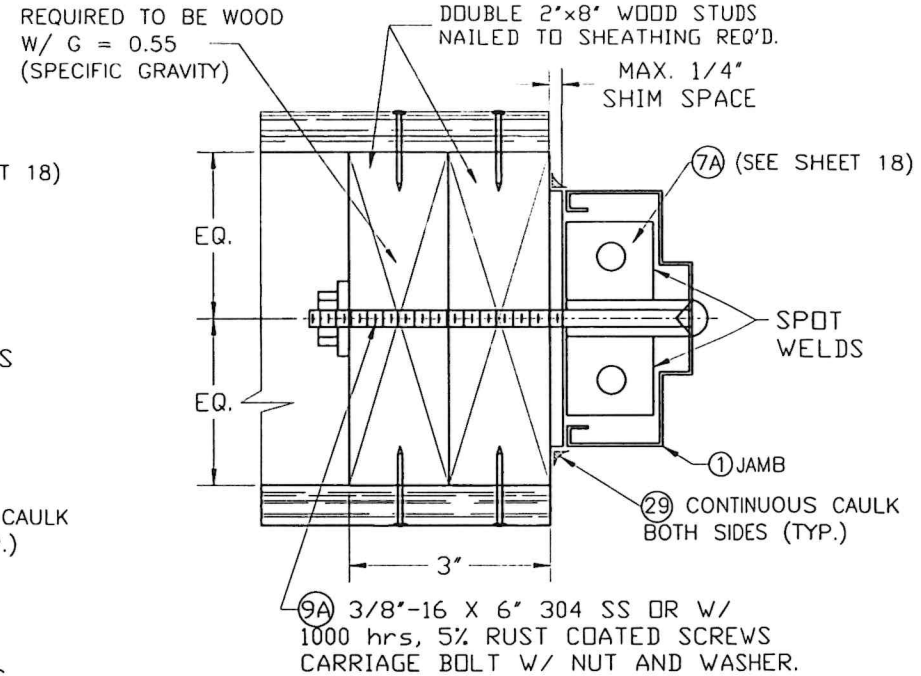
DETAIL #21
WIRE ANCHOR ⑥
INSTALLATION TO
MASONRY WALLS



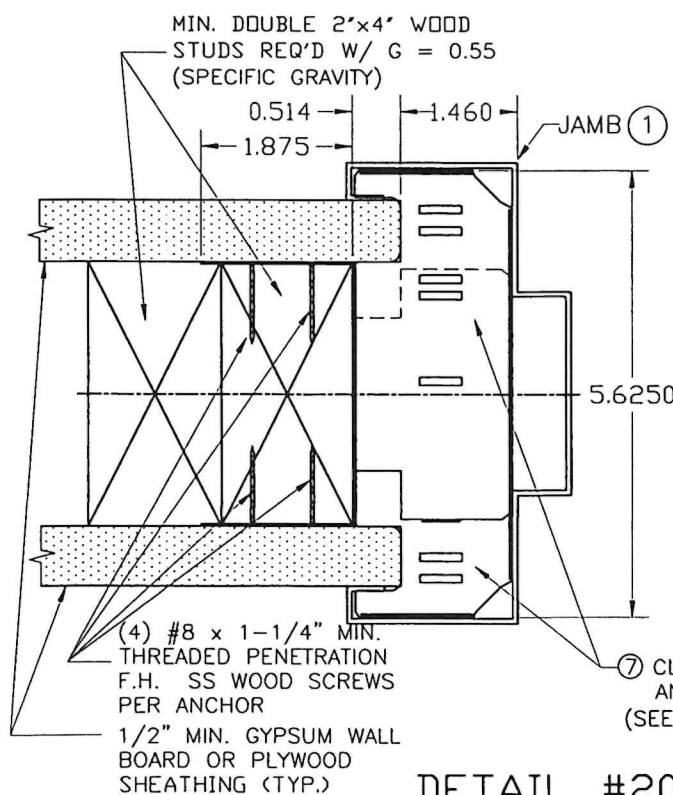
DETAIL #22
INSTALLATION OF UCAN
SLEEVE ANCHORS ⑧ TO
MASONRY WALLS



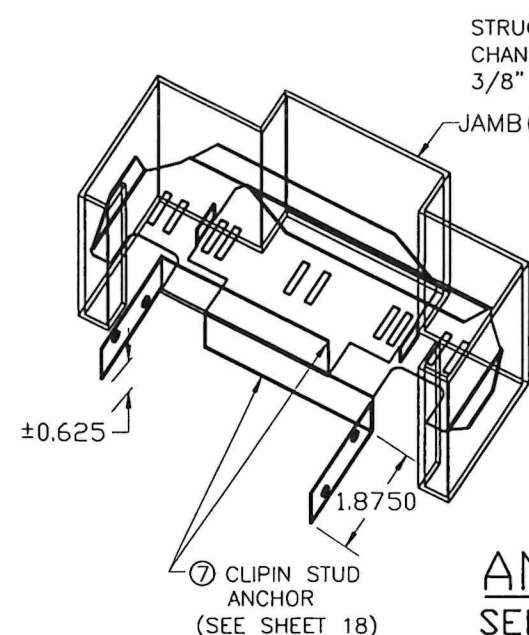
DETAIL #22A
INSTALLATION OF 3/8"Ø LAG
SCREW ⑨ TO WOOD FRAME WALLS



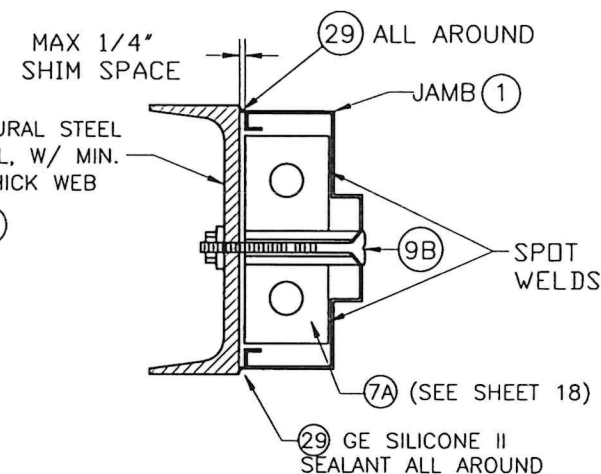
DETAIL #22B
INSTALLATION OF 3/8"Ø CARRIAGE
BOLT ⑨A TO WOOD FRAME WALLS



DETAIL #20
INSTALLATION OF 2 PIECE COMBINATION
STUD ANCHOR ⑦ INTO WOOD FRAME WALLS



DETAIL #23A
INSTALLATION OF 3/8"Ø
F.H. M.S. ⑨B TO STEEL CHANNEL



DETAIL #23B
INSTALLATION OF JAMB ① TO
STEEL CHANNEL THRU WELDING ⑨C

ANCHOR DETAILS:
SEE SCHEDULE IN SHEET 18

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 44167
WALTER A. TILLIT JR. P.E.
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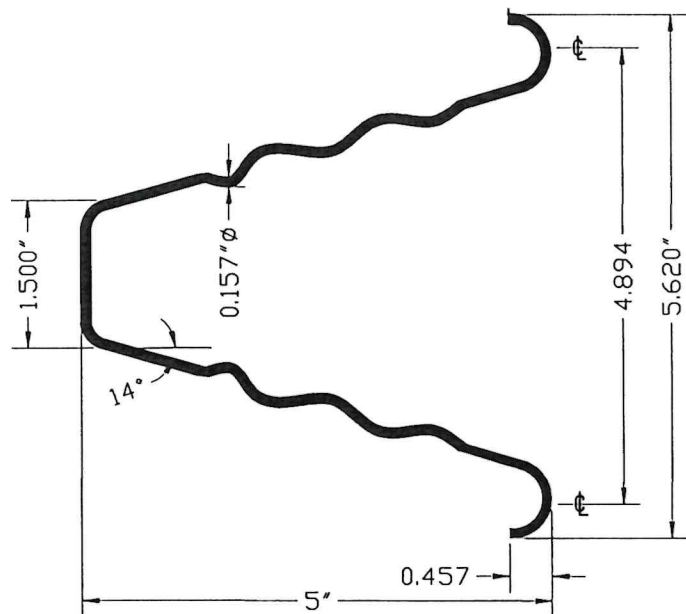
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COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE
STEEL FRAME LOUVERED ASSEMBLIES.
DAYBAR INDUSTRIES LTD
50 WEST DRIVE, BRAMPTON,
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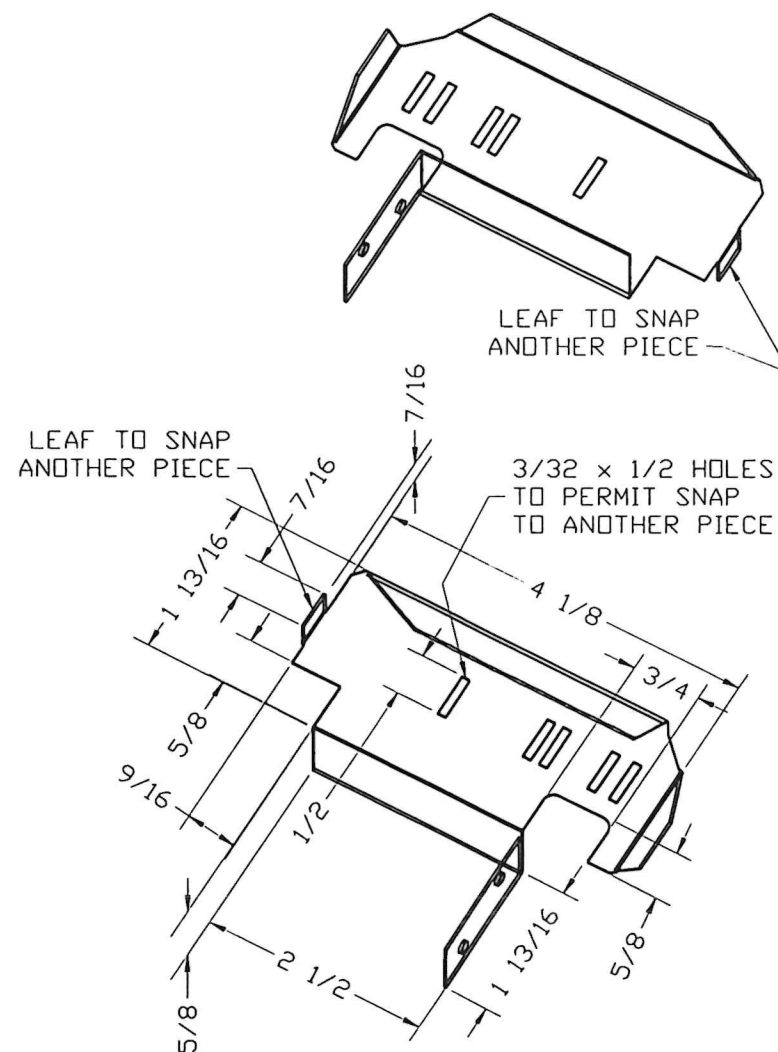
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08/04/2026
DATE
26-242
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SHEET 17 OF 19

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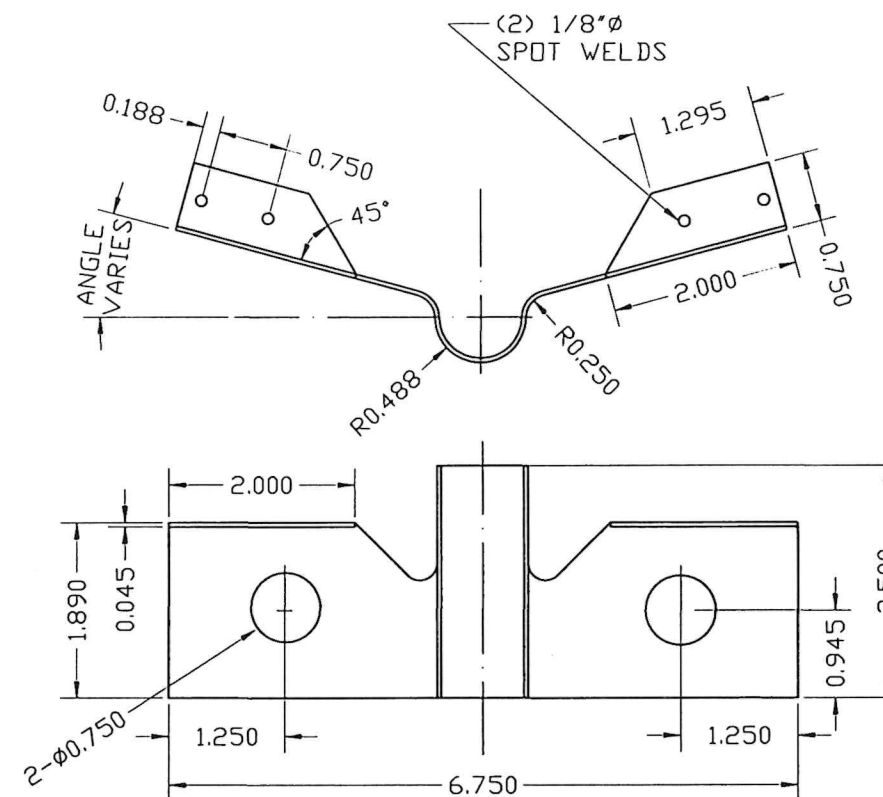
⑥ WIRE ANCHOR
FOR DETAIL #21/17

STEEL WIRE ANCHORS
(0.157" DIA, 9 1/2" LONG) IN HORIZ.
Fu Min.=95.9 Ksi, Fy Min.=40.2 Ksi
SEE B.O.M. ON SHEET 19.

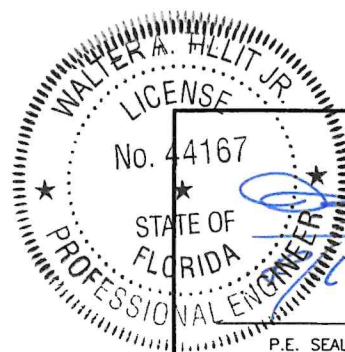


⑦ 2 PIECES COMBINATION STUD
ANCHOR FOR DETAIL #20/17

CLIPIN STUD ANCHOR MATERIAL:
GAUGE 20 (0.035) ASTM A-653,
A-60 GALVANNEALED STEEL.
SEE B.O.M. ON SHEET 19.



⑦A EMA BUTTERFLY ANCHOR (PART #PT1-008)
FOR DETAILS 22/17, 22A/17, 22B/17 & 23A/17
MATERIAL: 18 GA SATIN COAT



P.E. SEAL/SIGNATURE/DATE

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DOUBLE & SINGLE SERIES LS18 OUTSWING
COMMERCIAL STEEL DOOR W/SERIES "AS" 16 GAGE
STEEL FRAME LOUVERED ASSEMBLIES.

DAYBAR INDUSTRIES LTD

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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-180	08/04/2026	3		
2			4		

SHEET 18 OF 19

