

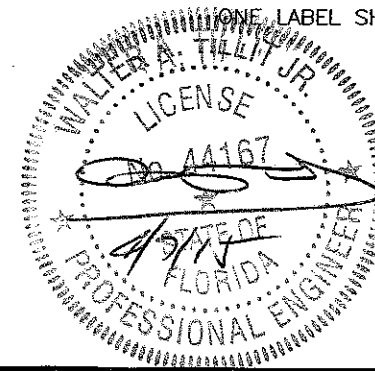
**SHEETS CONTENT:**

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- SHEET #3 ASSEMBLY ELEVATIONS No 7, 7-EMB.
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- SHEET #4 OPTIONAL EMBOSSED DOOR SHEET CONFIGURATIONS.
- SHEET #5 HORIZONTAL SECTIONS A-A & B-B.
- SHEET #6 HORIZONTAL SECTIONS C-C & C'-C'.
- SHEET #7 VERTICAL SECTIONS D-D, E, F, G, H, I AND HORIZONTAL SECTION J-J
- SHEET #8 DAYBAR & AIR LOUVERS VISION LITE DETAILS.
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DOOR SURFACE CLOSER AND END CHANNEL ASSEMBLY.
- SHEET #14 DOOR SNAP IN TOP CAP DETAILS.
- SHEET #15 HINGE BAR REINFORCING FOR DOOR.  
ANSI #A115.1 #86 MORTISE LOCK/RIM PANIC REINFORCING  
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- SHEET #16 #161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT DETAIL.
- SHEET #17 ANCHOR DETAILS.
- SHEET #18 ANCHOR SCHEDULE.  
WIRE ANCHOR DETAIL.  
2 PIECE COMBINATION STUD ANCHOR DETAIL.  
EMA BUTTERFLY ANCHOR DETAIL.
- SHEET #19 BILL OF MATERIALS.

**GENERAL NOTES AND SPECIFICATIONS:**

1. DOUBLE & 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 2014 (5th 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 CODE, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 2, 3 & 3A. IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 2, 3 & 3A.
- 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 #0279-0719-03 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE 2014 (5th EDITION).
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 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 POINT 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 WITH E60XX ELECTRODES, FOR GALVANNEAL MATERIAL, AND W/AMERICAN WELDING SOCIETY A.W.S. D.1.6 REGULATIONS W/ E-308 ELECTRODES (FU=80k.s.i.) FOR STAINLESS STEEL MATERIAL
6. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 17 OF THIS DRAWING. MAXIMUM ANCHORS 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.
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. 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 SHEETS 2, 3 & 3A.
10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME, 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) 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 1710.5 OF 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



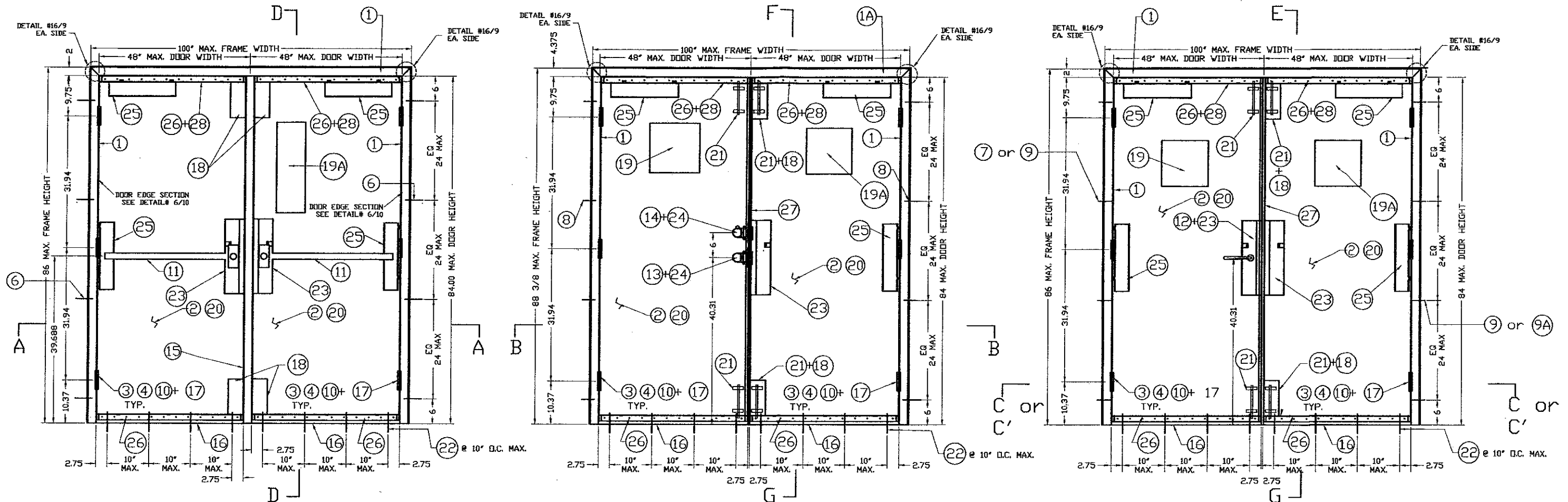
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**TILTECO INC.**

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 WALTER A. TILLIT Jr. P.E.  
 FLORIDA Lic. # 44167

**FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.			DRAWN BY: F.R.L.
<b>DAYBAR INDUSTRIES LTD</b>			03/27/15 DATE
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204			15-052 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No
1	OLD 12-080	03/27/15	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 FULL FLUSH  
 VISION LITE MODEL VLF-EZ-IG (19A), BY AIR LOUVERS, INC.,  
 W/ 1/2" LEXAN GLAZING SET IN DOW CORNING #995  
 STRUCTURAL SILICONE W/ 7" x 22" DOOR CUT-OUT  
 NARROWLITE (5"x20" D.L.O.)

MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE & DOUBLE DOORS W/ VON DUPRIN RIM PANIC DEVICES)	
POSITIVE	+70 PSF
NEGATIVE	-65 PSF

**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 (2) (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  
 FULL FLUSH  
 VISION LITE MODEL VLF-EZ-IG (19A), BY AIR LOUVERS, INC.  
 W/ 1/2" LEXAN GLAZING SET IN DOW CORNING #995  
 STRUCTURAL SILICONE W/ 12" x 12" DOOR CUT-OUT  
 NARROWLITE (10"x10" D.L.O.), AND DAYBAR VISION LITE (19)  
 WITH 3/8" LEXAN GLAZING SET IN DOW CORNING #995  
 STRUCTURAL SILICONE, W/ 11 1/8" x 11 1/8" DOOR  
 CUT-OUT NARROWLITE (9 3/4"x9 3/4" D.L.O.)

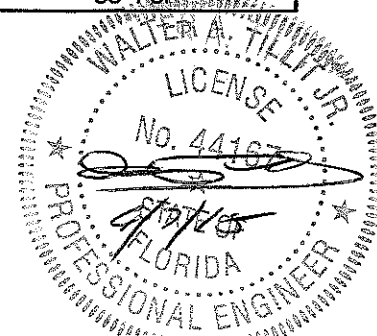
MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE DOOR W/ TWO SURFACE BOLTS & DOUBLE DOORS W/ FOUR SURFACE BOLTS)	
POSITIVE	+65 PSF
NEGATIVE	-65 PSF

**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-L 9000 SERIES MORTISE LOCK (12) (W/ DEAD BOLT INCLUDED)  
 HAGER #275D SURFACE BOLTS (2) (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  
 FULL FLUSH  
 VISION LITE MODEL VLF-EZ-IG (19A), BY AIR LOUVERS, INC.  
 W/ 1/2" LEXAN GLAZING SET IN DOW CORNING #995  
 STRUCTURAL SILICONE W/ 12" x 12" DOOR CUT-OUT  
 NARROWLITE (10"x10" D.L.O.), AND DAYBAR VISION LITE (19)  
 WITH 3/8" LEXAN GLAZING SET IN DOW CORNING #995  
 STRUCTURAL SILICONE, W/ 11 1/8" x 11 1/8" DOOR  
 CUT-OUT NARROWLITE (9 3/4"x9 3/4" D.L.O.)

MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE DOOR W/ TWO SURFACE BOLTS & DOUBLE DOORS W/ FOUR SURFACE BOLTS)	
POSITIVE	+65 PSF
NEGATIVE	-65 PSF

**ASSEMBLY ELEVATIONS # 1, 2 & 3**  
 SEE SECTIONS ON SHEETS 5, 6 & 7

- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING  
 SCHEDULE FOR ASSEMBLY COMBINATIONS.



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 WALTER A. TILLIT JR. P.E.  
 FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL  
 GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"  
 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME  
 FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

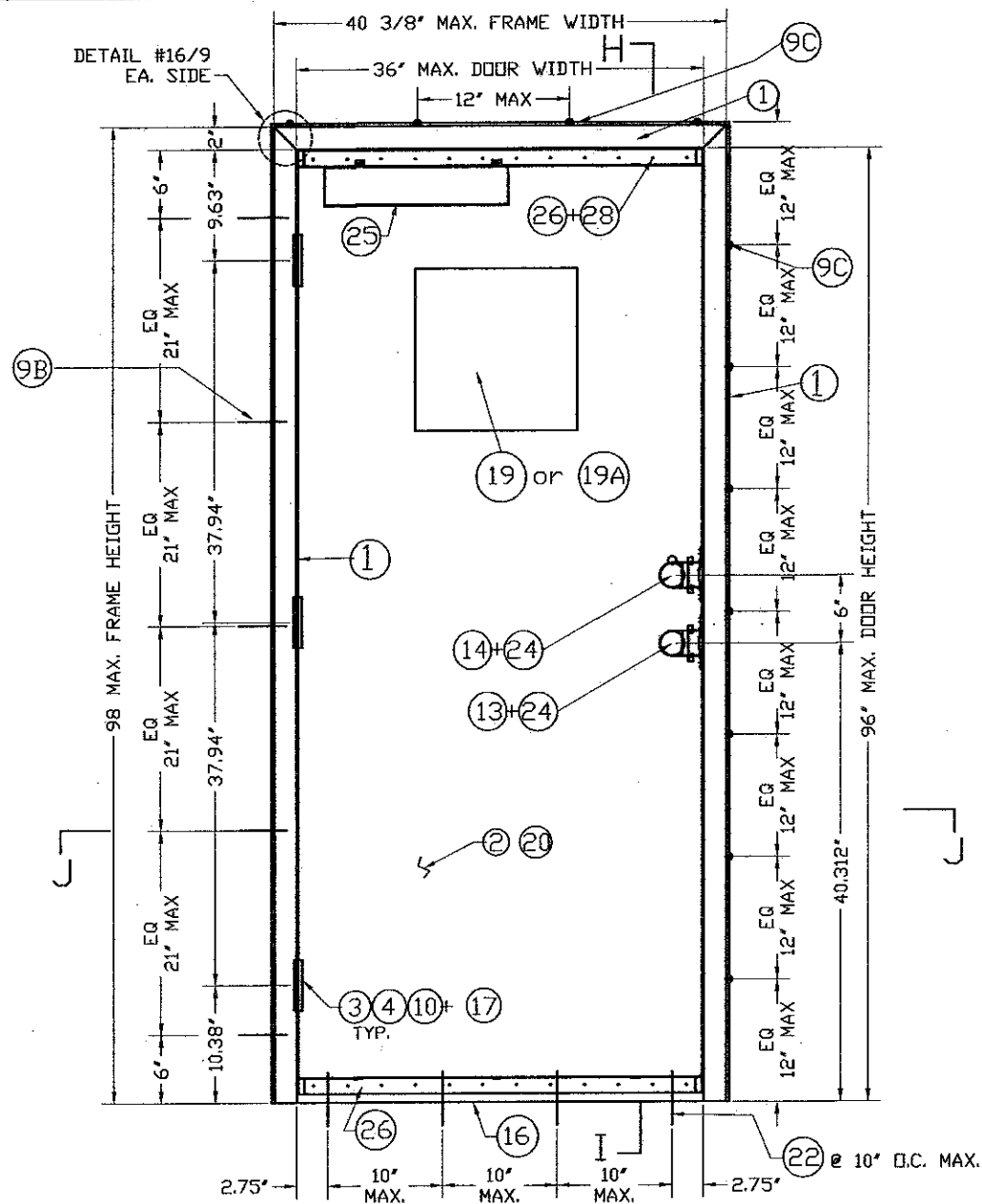
**DAYBAR INDUSTRIES LTD**

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

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1	OLD 12-080	03/27/15	3		
2			4		

DRAWN BY: F.R.L.  
 DATE: 03/27/15  
 DRAWING No: 15-052  
 SHEET 2 OF 19

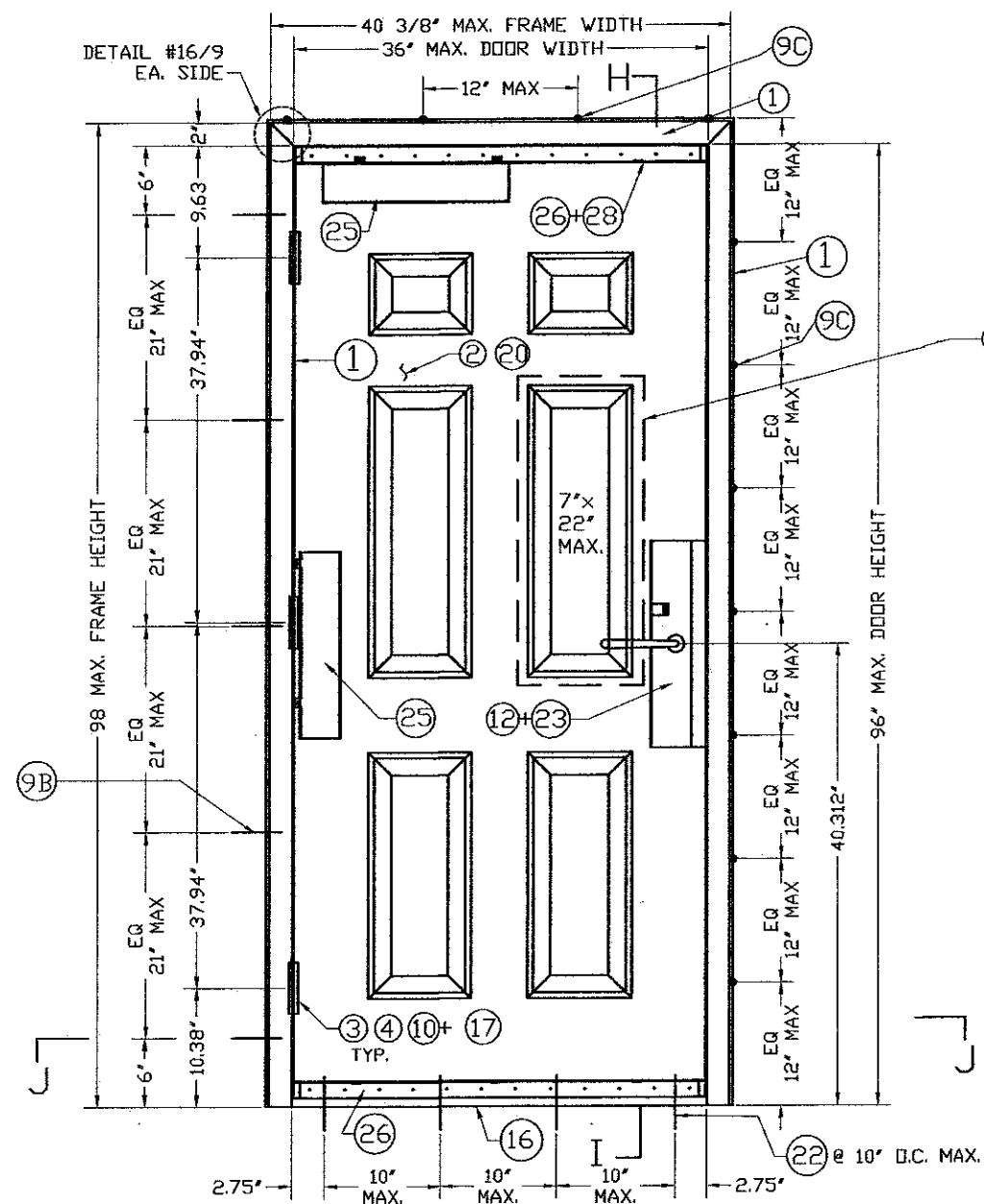


ASSEMBLY #7 \* EXTERIOR ELEVATION SINGLE DOOR OUTSWING WALL CONDITION - WELDED HOT ROLLED 3/8" MIN. THICK STRUCTURAL STEEL CHANNEL FRAME JAMB AND HEAD. ANCHORS: 3/8"x3 1/2" FLAT HEAD MACHINE SCREW, LOCK WASHER & NUT W/ EMA (DET #23A), OR FRAME (1) WELDED @ 12" O.C. AT JAMB AND HEAD INCLUDING TOP & BOTTOM OF JAMB (DET #23B). SCH-D SERIES CYLINDRICAL LOCK (3) + SCH-B SERIES DEAD BOLT (4) 4 1/2" HAGER MODEL # BB1279 STEEL BUTT HINGE (10) DOOR CORE (20) EXPANDED POLYSTYRENE OR HONEYCOMB PAPER. FULL FLUSH VISION LITE MODEL VLF-EZ-IG (19A) BY AIR LOUVERS, INC. W/ 1/2" LEXAN GLAZING SET IN DOW CORNING #995 STRUCTURAL SILICONE W/ 12" x 12" DOOR CUT-OUT NARROWLITE (10"x10" D.L.O.), AND DAYBAR VISION LITE (9) WITH 3/8" LEXAN GLAZING SET IN DOW CORNING #995 STRUCTURAL SILICONE, W/ 11 1/8" x 11 1/8" DOOR CUT-OUT NARROWLITE (9 3/4"x9 3/4" D.L.O.).

MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE DOORS WITHOUT SURFACE BOLTS)	
POSITIVE	+65 PSF
NEGATIVE	-53.3 PSF

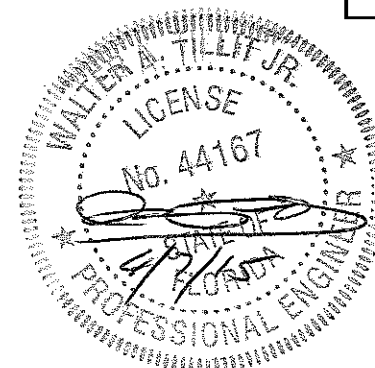
**ASSEMBLY ELEVATIONS #7, 7-EMB**  
SEE SECTIONS ON SHEET 7

- SEE SHEET 3A FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR ASSEMBLY COMBINATIONS.



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. FULL EMBOSSED

MAX. A.S.D. DESIGN PRESSURE RATINGS (OUTSWING SINGLE DOORS WITHOUT SURFACE BOLTS)	
POSITIVE	+65 PSF
NEGATIVE	-53.3 PSF



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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

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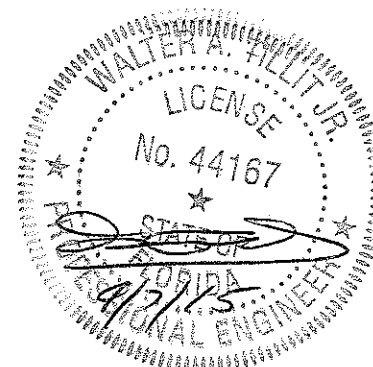
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DATE: 03/27/15  
DRAWING No: 15-052  
SHEET 3 OF 19

**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)	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)	+70, -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**

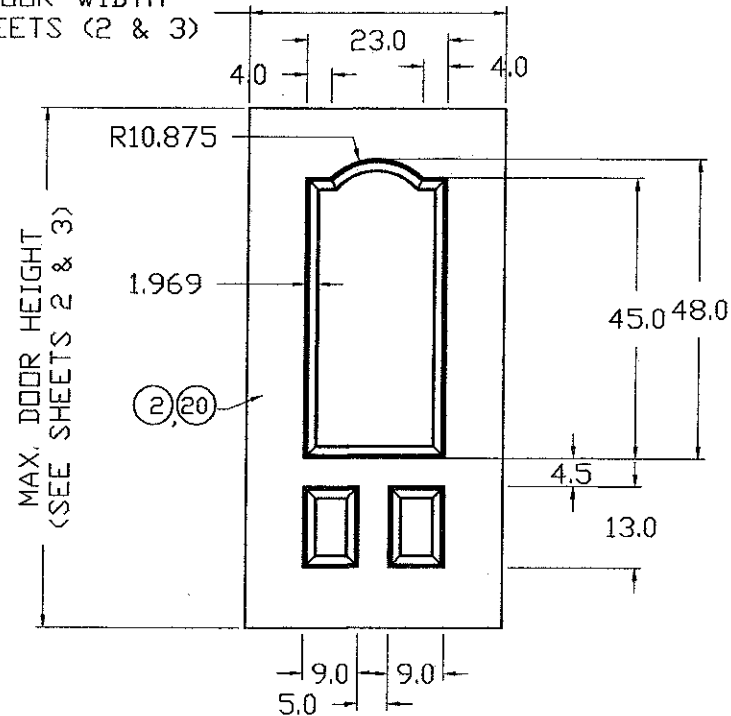
1. FOR SINGLE & DOUBLE DOORS INSTALLED AT WOOD FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY RETAINED BY EXISTING BUILDINGS WOOD HEADER FOLLOWING DETAILS AS PER SECTION E, SHEET 7.
2. FOR SINGLE & DOUBLE DOORS INSTALLED AT STEEL FRAME BUILDINGS, DOOR HEADS SHALL BE CONTINUOUSLY WELDED TO EXISTING 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.



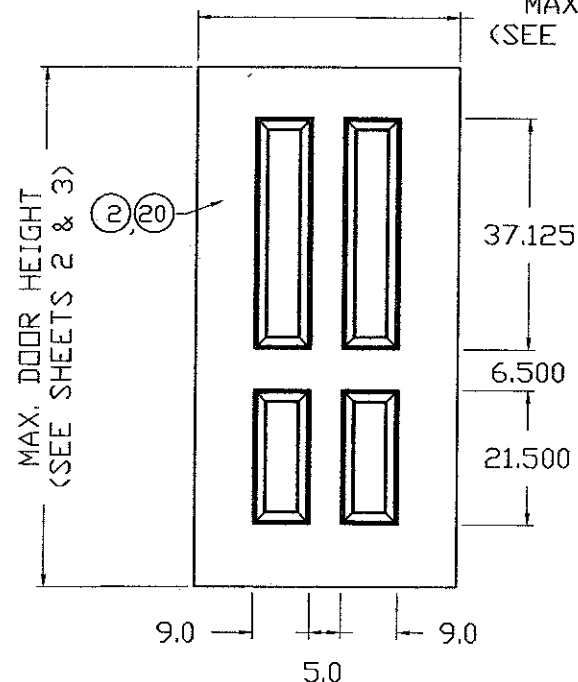
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<p><b>TILTECO Inc.</b> TILLIT TESTING &amp; ENGINEERING COMPANY 6355N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167</p>		<p align="center"><b>DAYBAR INDUSTRIES LTD</b></p> <p align="center">50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204</p>		03/27/15 DATE	
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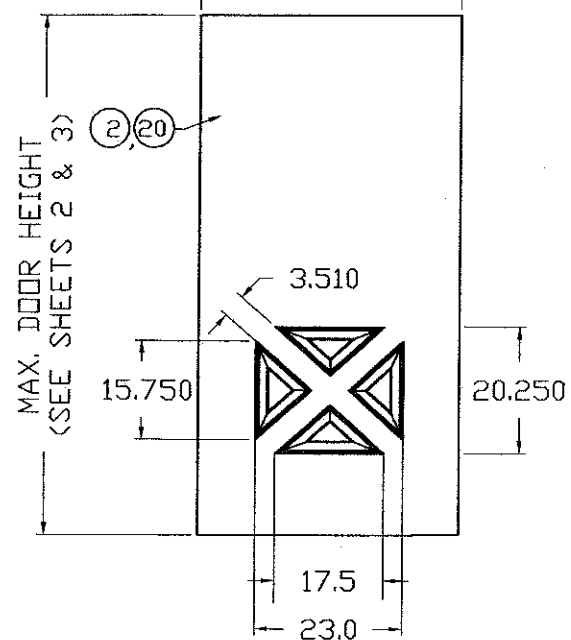
MAX. DOOR WIDTH  
(SEE SHEETS (2 & 3))



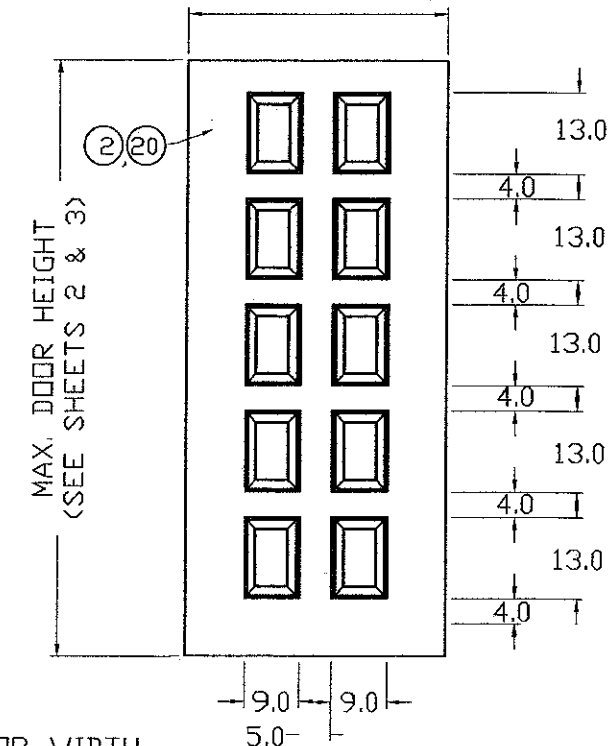
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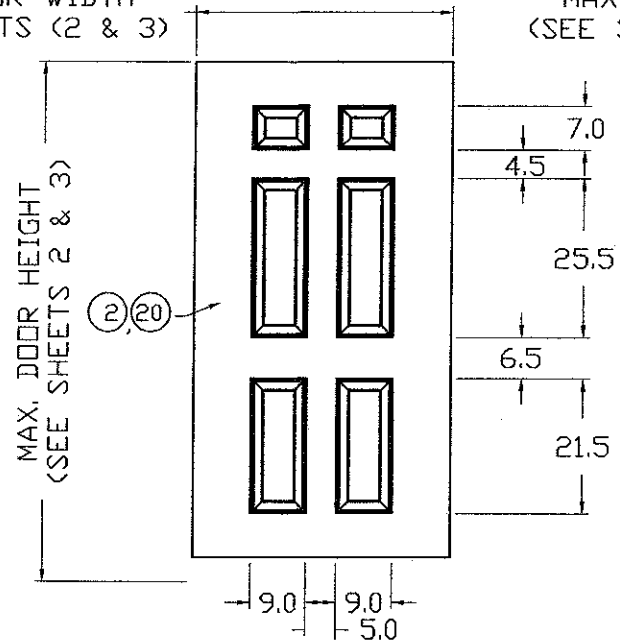
MAX. DOOR WIDTH  
(SEE SHEETS (2 & 3))



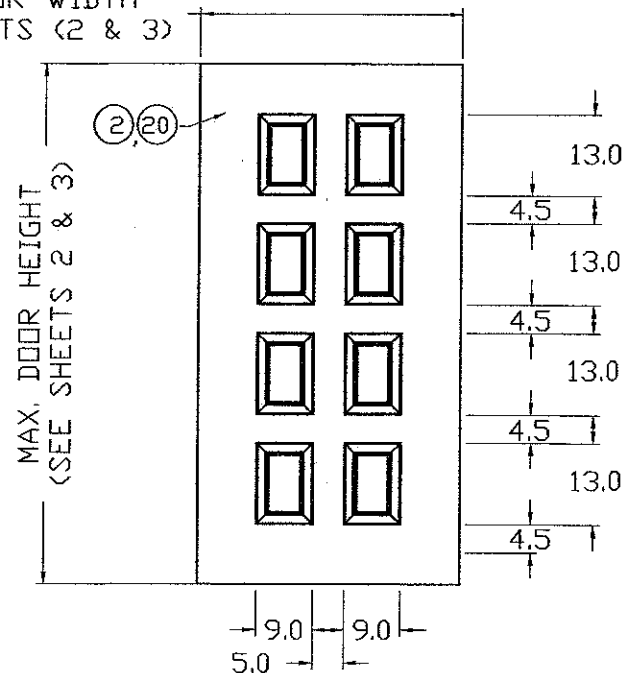
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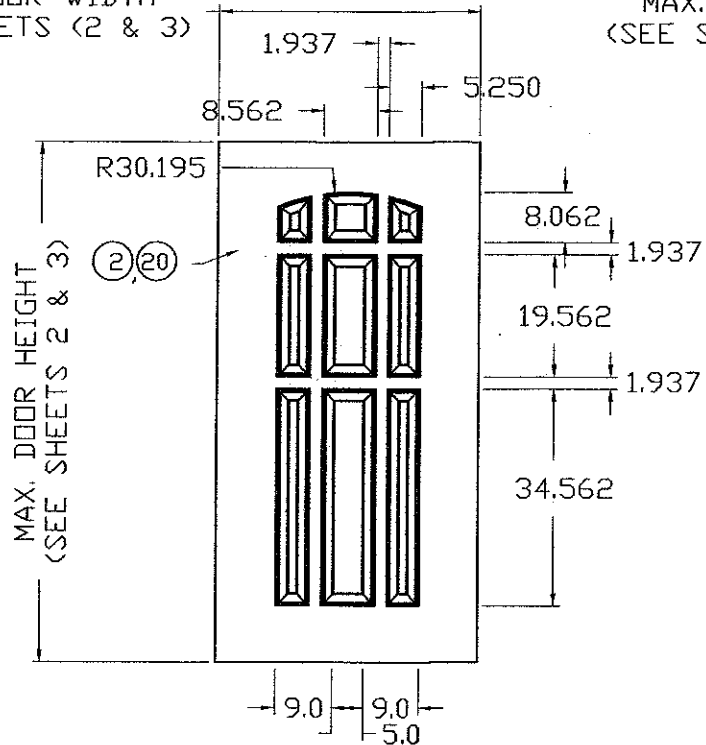
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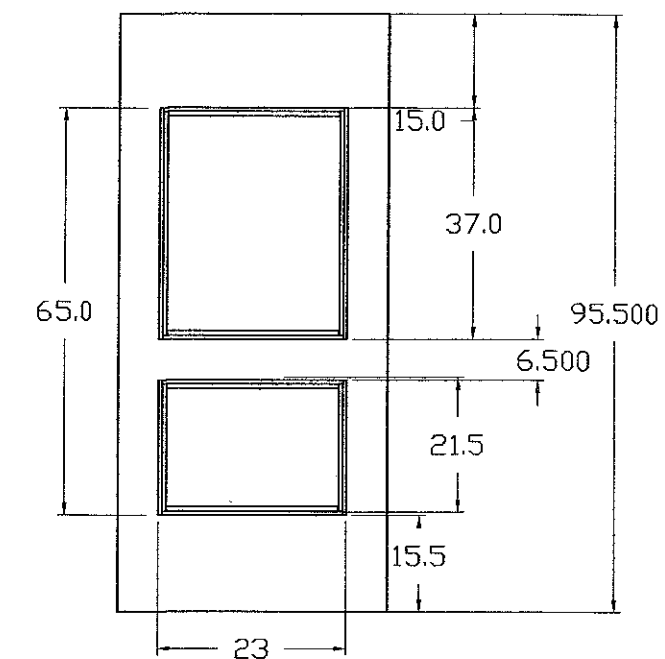
MAX. DOOR WIDTH  
(SEE SHEETS (2 & 3))



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

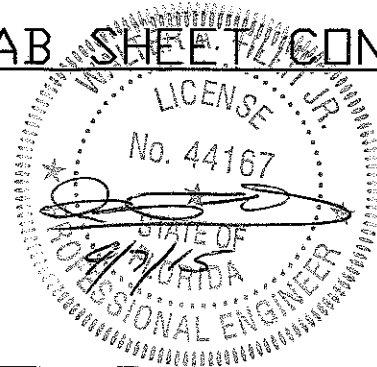


MAX. DOOR WIDTH  
(SEE SHEETS (2 & 3))



OPTIONAL EMBOSSED DOOR SLAB SHEET CONFIGURATIONS

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



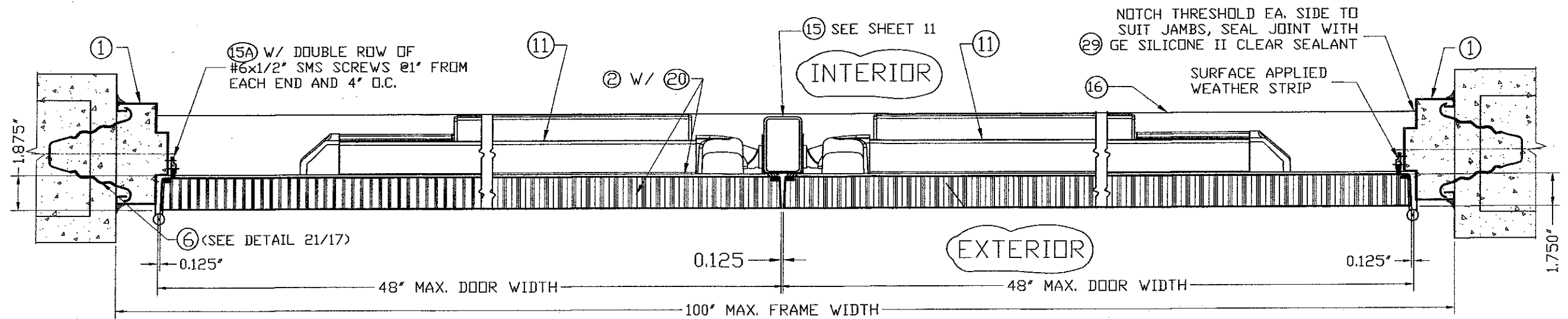
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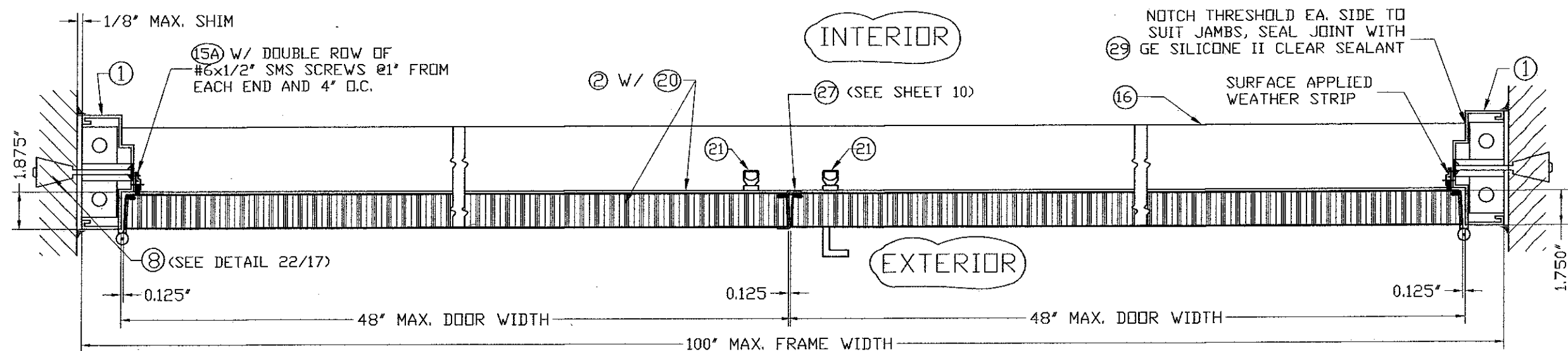
TILLIT TESTING & ENGINEERING COMPANY  
6355N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone : (305)871-1530 . Fax : (305)871-1531  
e-mail: tilteco@aol.com  
EB-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

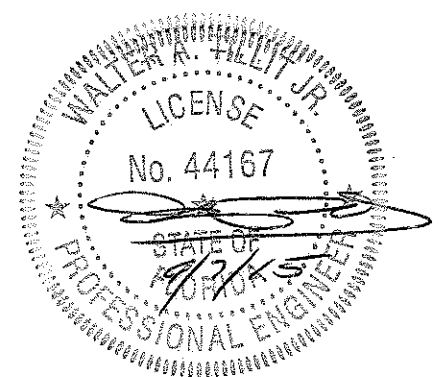
DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.						DRAWN BY: F.R.L.
DAYBAR INDUSTRIES LTD						03/27/15 DATE
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						15-052 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 4 OF 19
1	OLD 12-080	03/27/15	3			
2			4			



**SECTION A-A**  
SCALE: 3/16"=1"



**SECTION B-B**  
SCALE: 3/16"=1"



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WALTER A. TILLIT Jr. P.E.  
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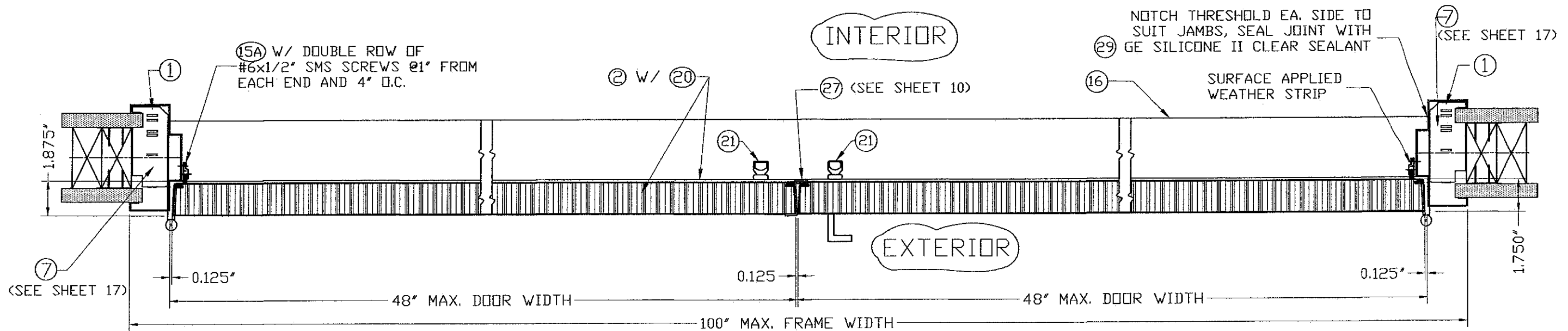
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

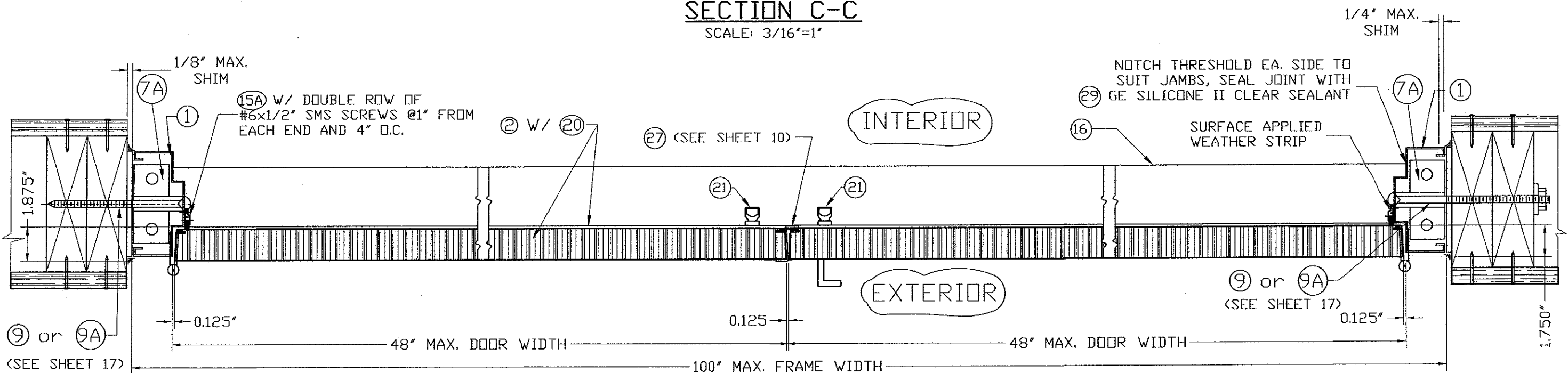
**DAYBAR INDUSTRIES LTD**  
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4  
TEL: 905 625-8000 FAX: 905 625-4204

DRAWN BY: F.R.L.  
DATE: 03/27/15  
DRAWING No: 15-052

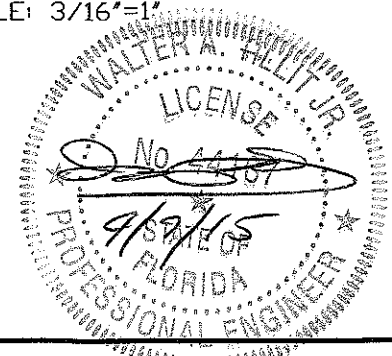
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 12-080	03/27/15	3		
2			4		



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



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



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DRAWN BY:  
F.R.L.

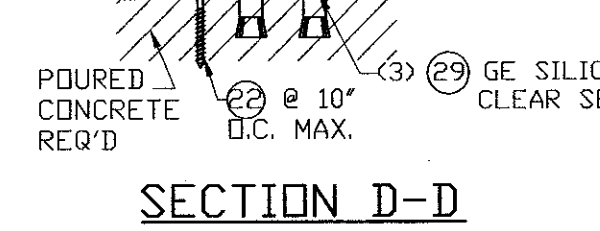
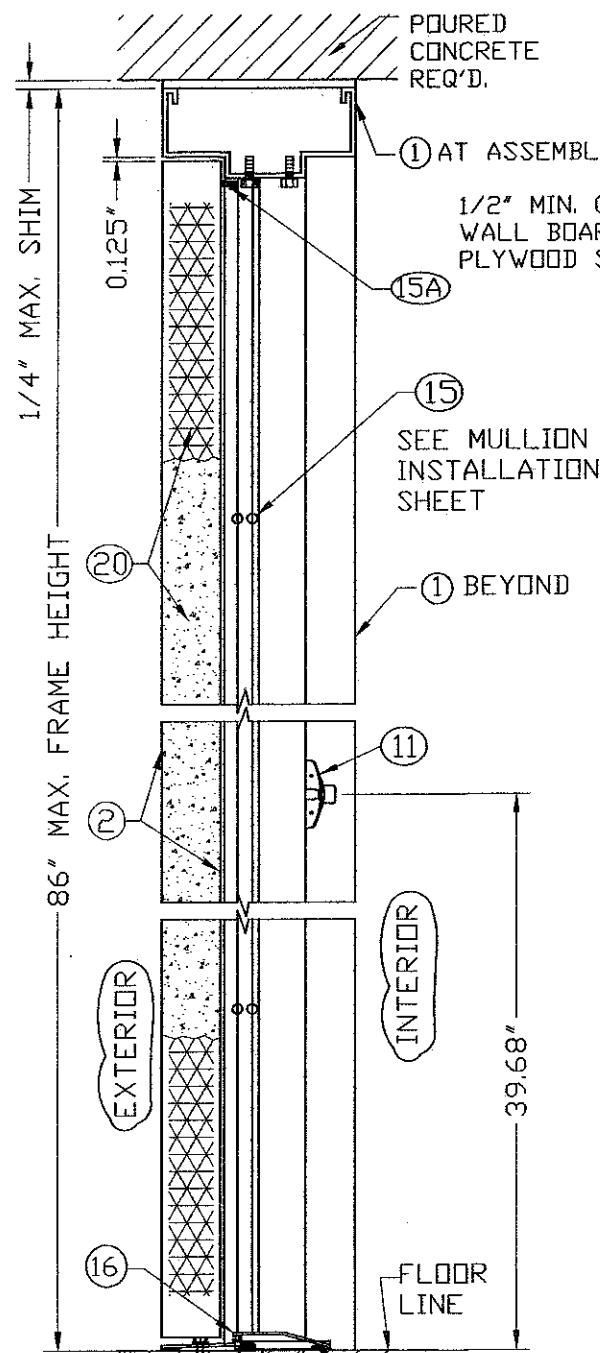
03/27/15  
DATE

15-052  
DRAWING No

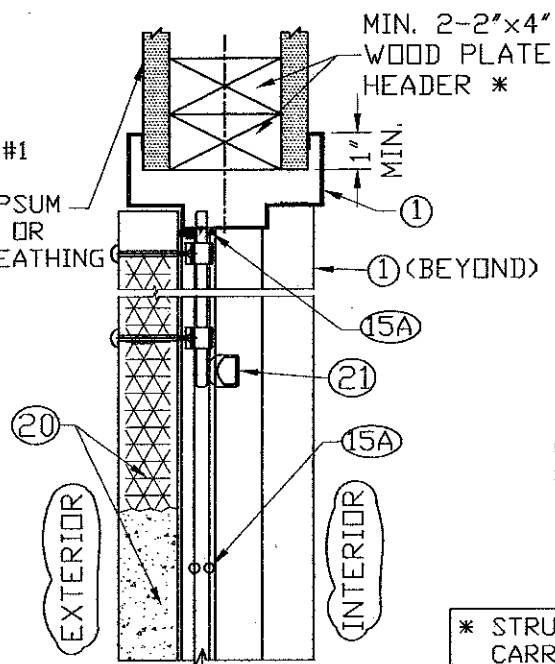
SHEET 6 OF 19

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2			4		

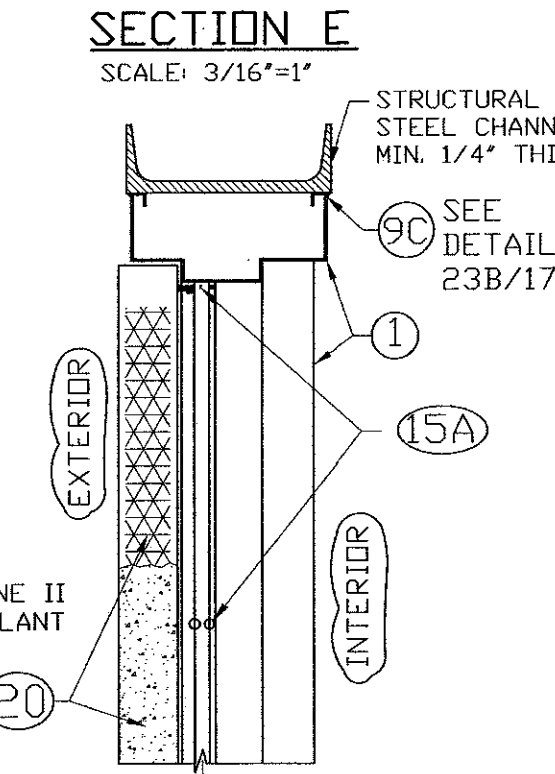




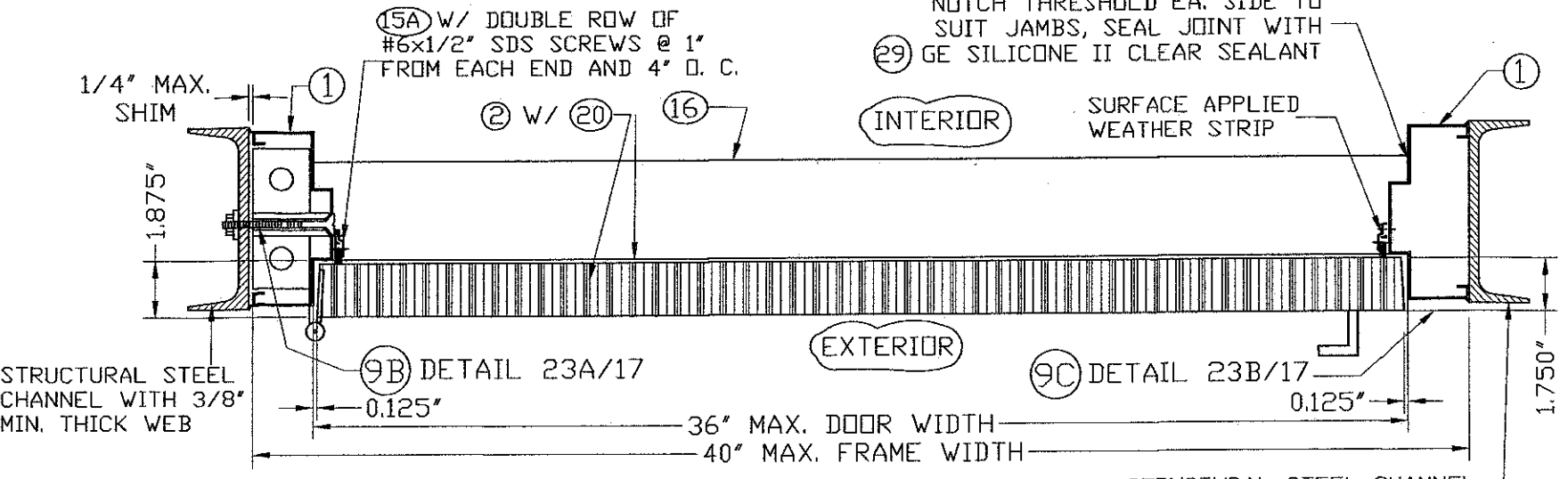
**SECTION D-D**  
 SINGLE DOOR DOES NOT NEED MULLION.  
 LATCH ONTO REINFORCED JAMB  
 SCALE: 3/16"=1"



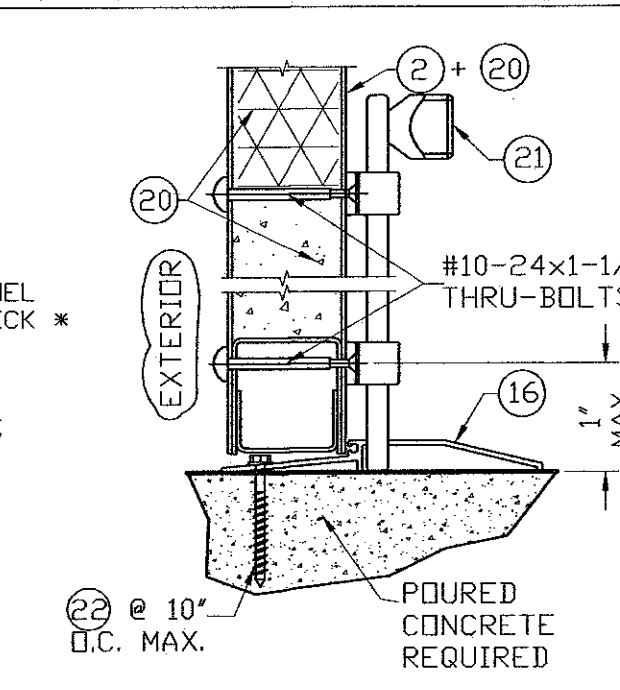
**SECTION E**  
 SCALE: 3/16"=1"  
 CONTINUES SAME AS SECTION G (AT BOTTOM)



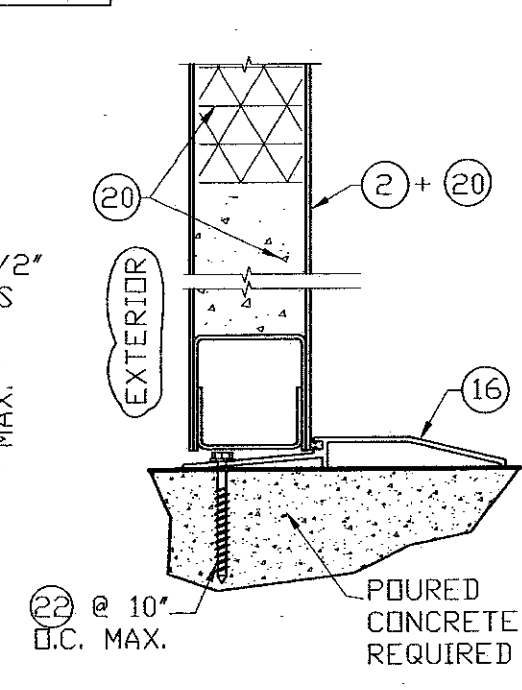
**SECTION H**  
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 CONTINUES SAME AS SECTION I (AT BOTTOM)



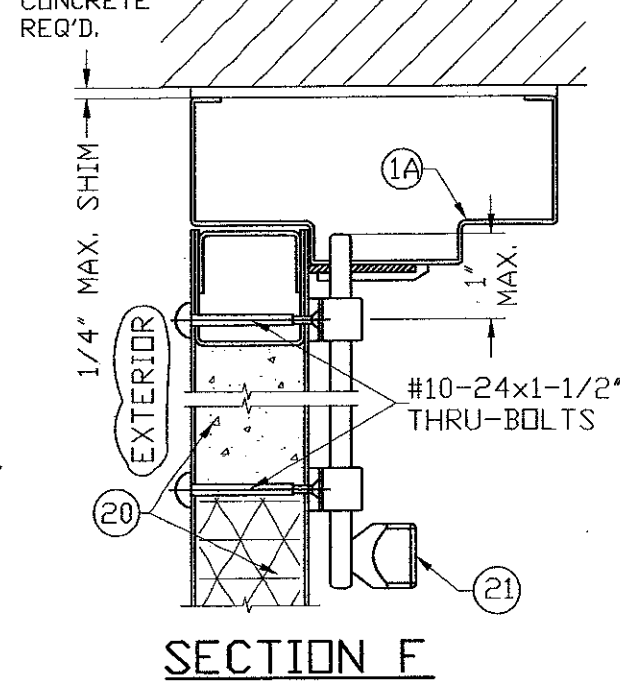
**SECTION J-J**  
 SCALE: 3/16"=1"  
 \* STRUCTURAL MEMBER AT HEADER MUST BE DESIGNED TO CARRY 174 #/FT & BE REVIEWED BY BUILDING OFFICIAL



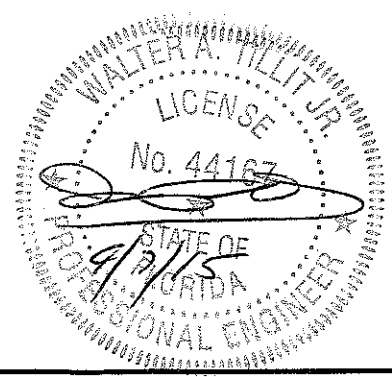
**SECTION G**



**SECTION I**



**SECTION F**



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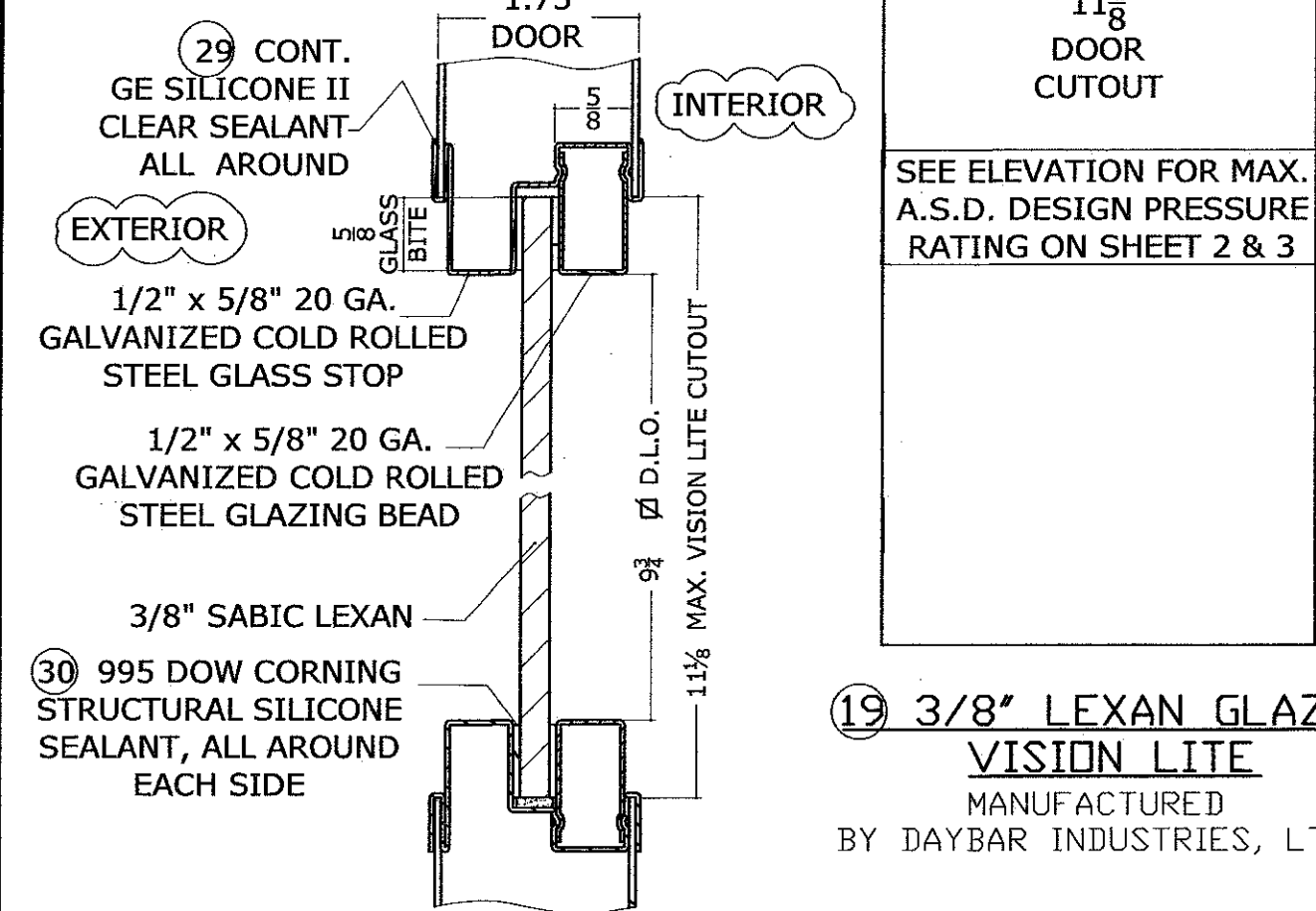
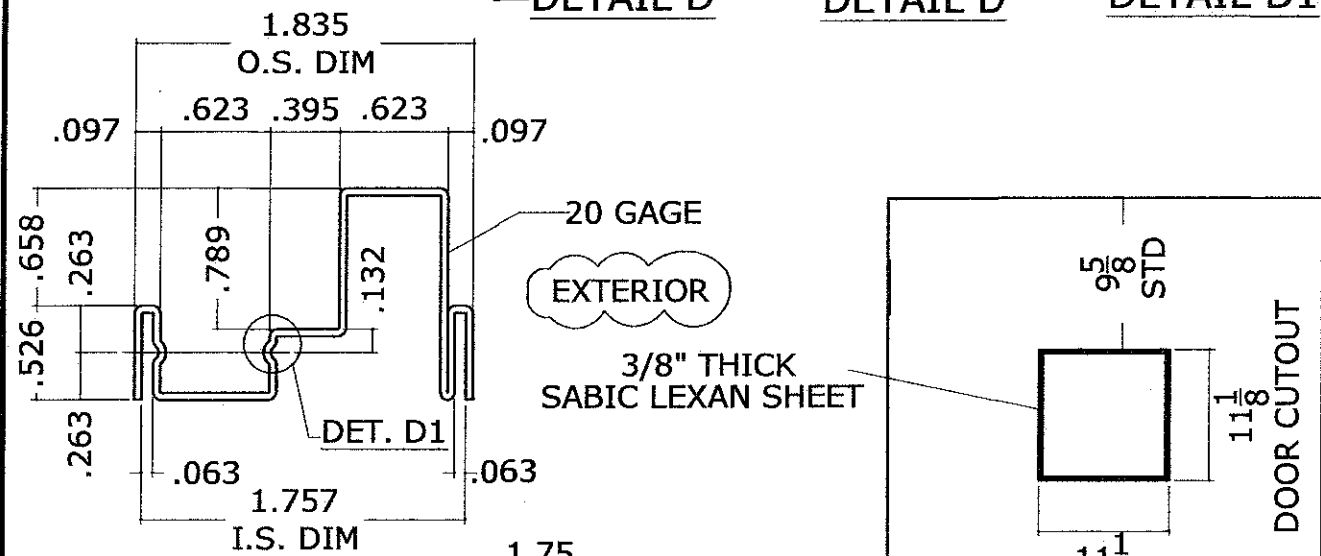
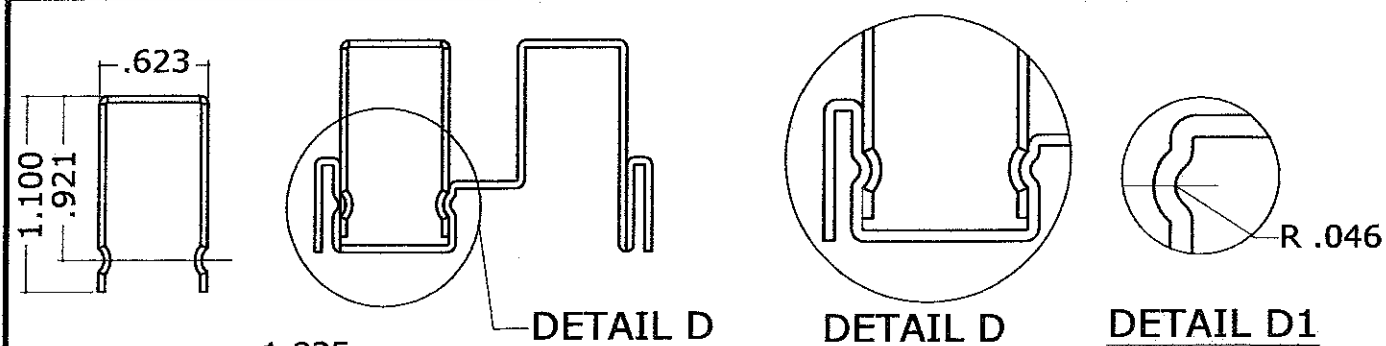
**TILTECO Inc.**

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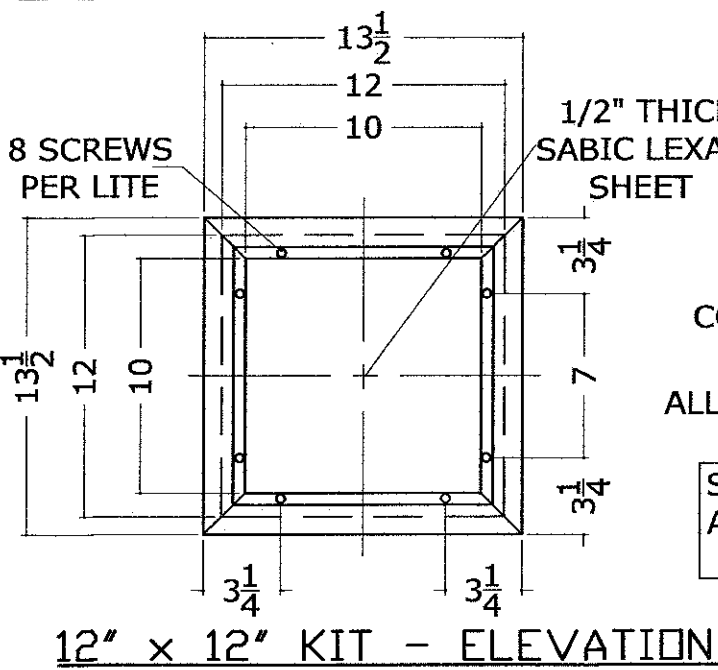
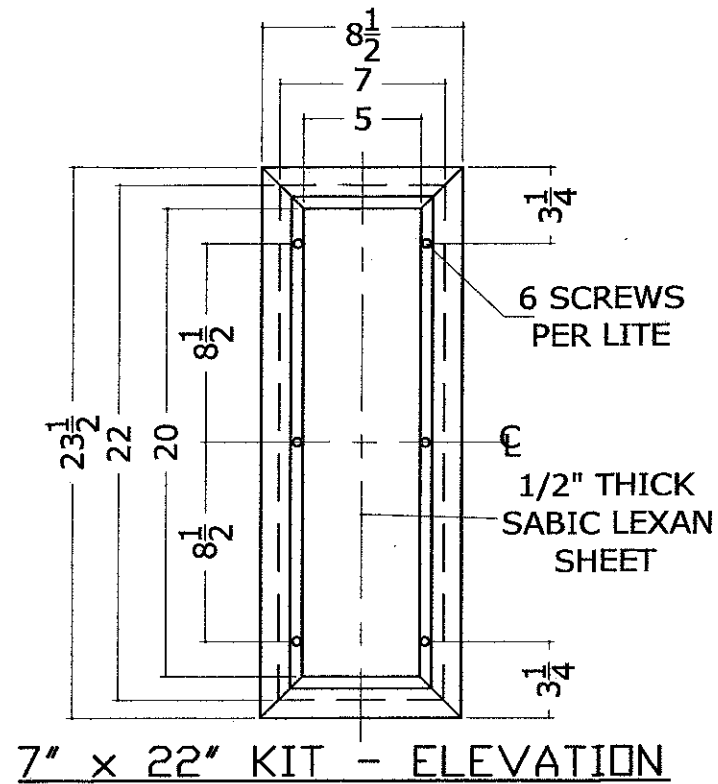
DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.		DRAWN BY: F.R.L.
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204		03/27/15 DATE
REV. No DESCRIPTION DATE REV. No DESCRIPTION DATE		15-052 DRAWING No
1	OLD 12-080	03/27/15
2		





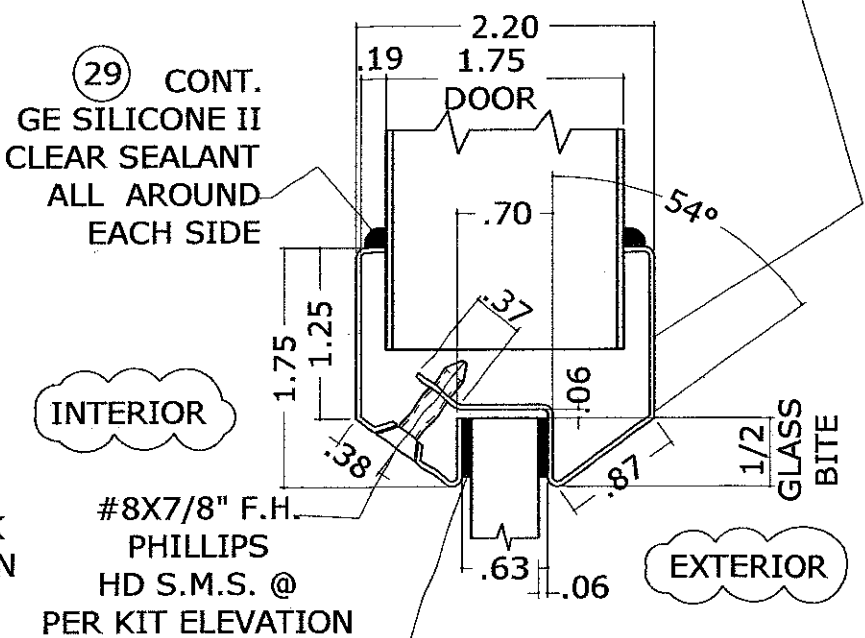
**19 3/8" LEXAN GLAZED VISION LITE**  
 MANUFACTURED BY DAYBAR INDUSTRIES, LTD.

**3/8" GE LEXAN GLAZING DETAIL**



**19A VLF-EZ-IG VISION LITES**  
**1/2" LEXAN GLAZED**  
 MANUFACTURED BY AIR LOUVERS, INC.

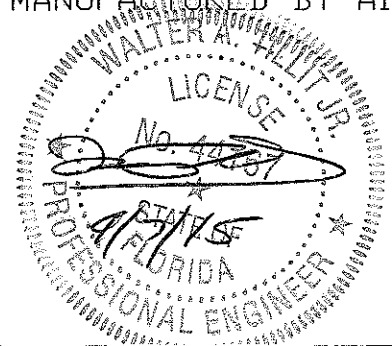
**MATERIAL SPECIFICATIONS:**  
 20 GAGE CRS FRAME W/ A MINERAL BRONZE BAKED ON POWDER COAT.



30 995 DOW CORNING STRUCTURAL SILICONE SEALANT, ALL AROUND EACH SIDE

SEE ELEVATION FOR MAX. A.S.D. DESIGN PRESSURE RATING ON SHEET 2 & 3

**1/2" SABIC LEXAN GLAZING DETAIL**



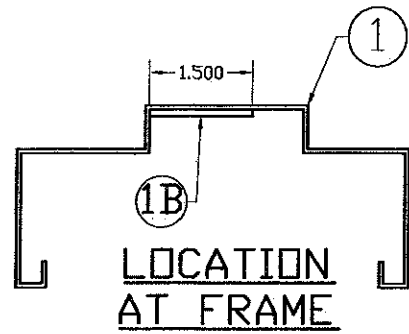
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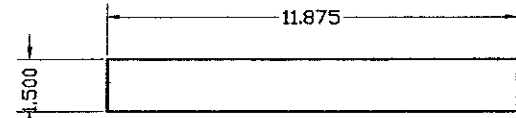
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DAYBAR INDUSTRIES LTD						03/27/15 DATE
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						15-052 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 8 OF 19
1	OLD 12-080	03/27/15	3			
2			4			

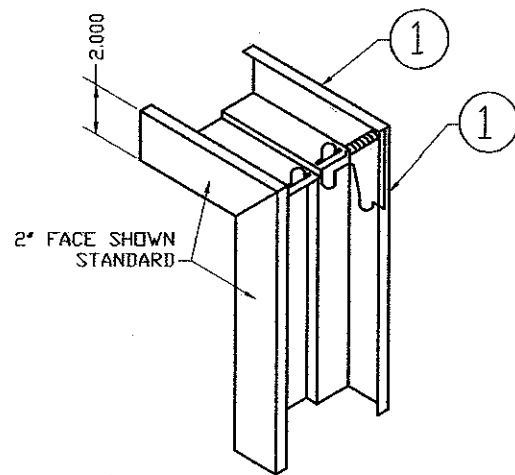


**1B** LOCATION AT FRAME



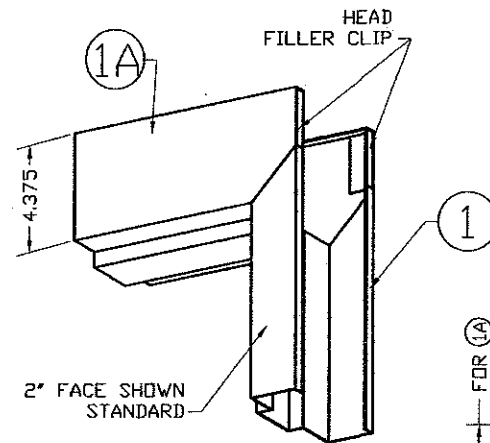
**1B** SURFACE STRIKE REINFORCING

MATERIAL:  
GAUGE 12 MINIMUM (.097 THICK) GALVANNEAL OR STAINLESS STEEL ATTACHED W/(2) LONG MIC WELDS ONE/END.



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

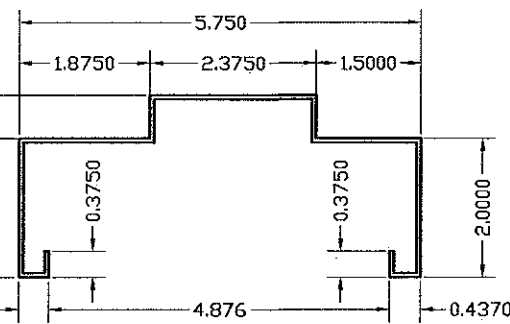
**DETAIL 16**  
TYPICAL WELDED CORNER



**1** TYPICAL JAMB & HEAD SECTION

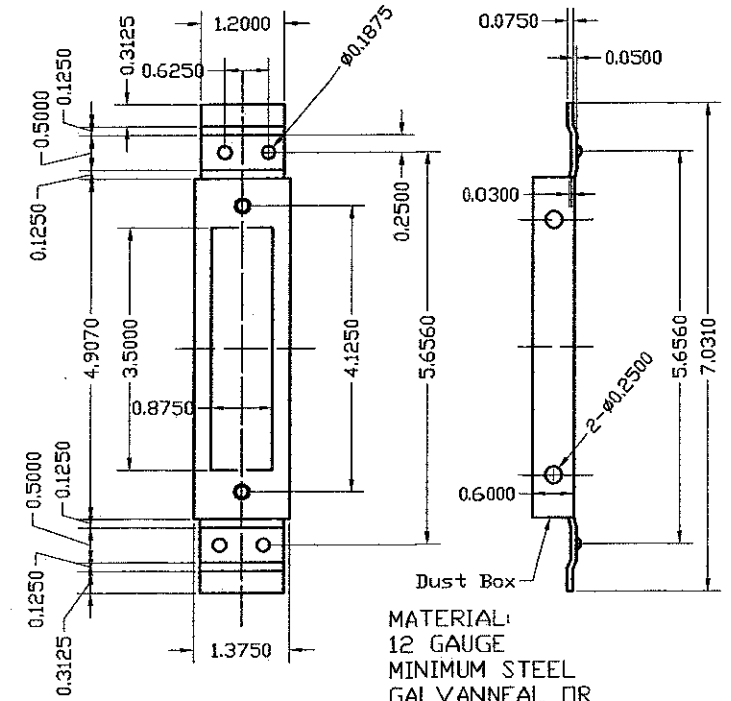
**1A** OPTIONAL HEAD SECTION

**3, 4** 4 1/2" FRAME DOOR HINGE REINFORCING DETAIL



MATERIAL:  
GAUGE 16 MINIMUM (.058) GALVANNEAL OR STAINLESS STEEL

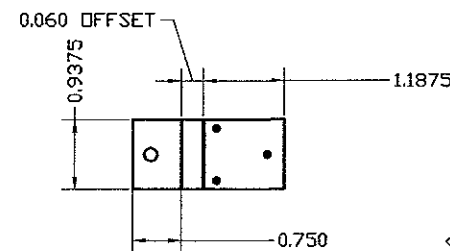
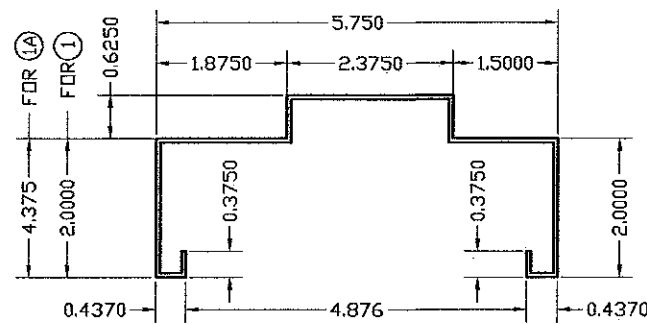
**5** 4 7/8" STRIKE REINFORCEMENT FOR FRAME DETAIL



MATERIAL:  
12 GAUGE MINIMUM STEEL GALVANNEAL OR STAINLESS STEEL

**5** 4 7/8" STRIKE REINFORCEMENT FOR FRAME DETAIL

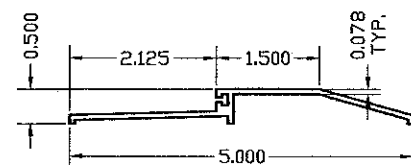
ATTACHED W/(4) 3/16" Ø PROJECTION WELDS.



**14 GA (0.074) MIN GALVANNEAL OR STAINLESS STEEL**

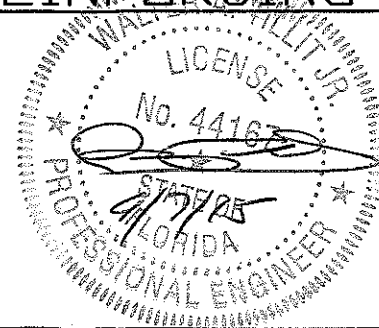
**DEAD LOCK STRIKE TAB**

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



**16** EXTRUDED ALUMINUM THRESHOLD NGP #950NA

FRAME SECTIONS AND REINFORCING DETAILS



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DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

DRAWN BY:  
F.R.L.

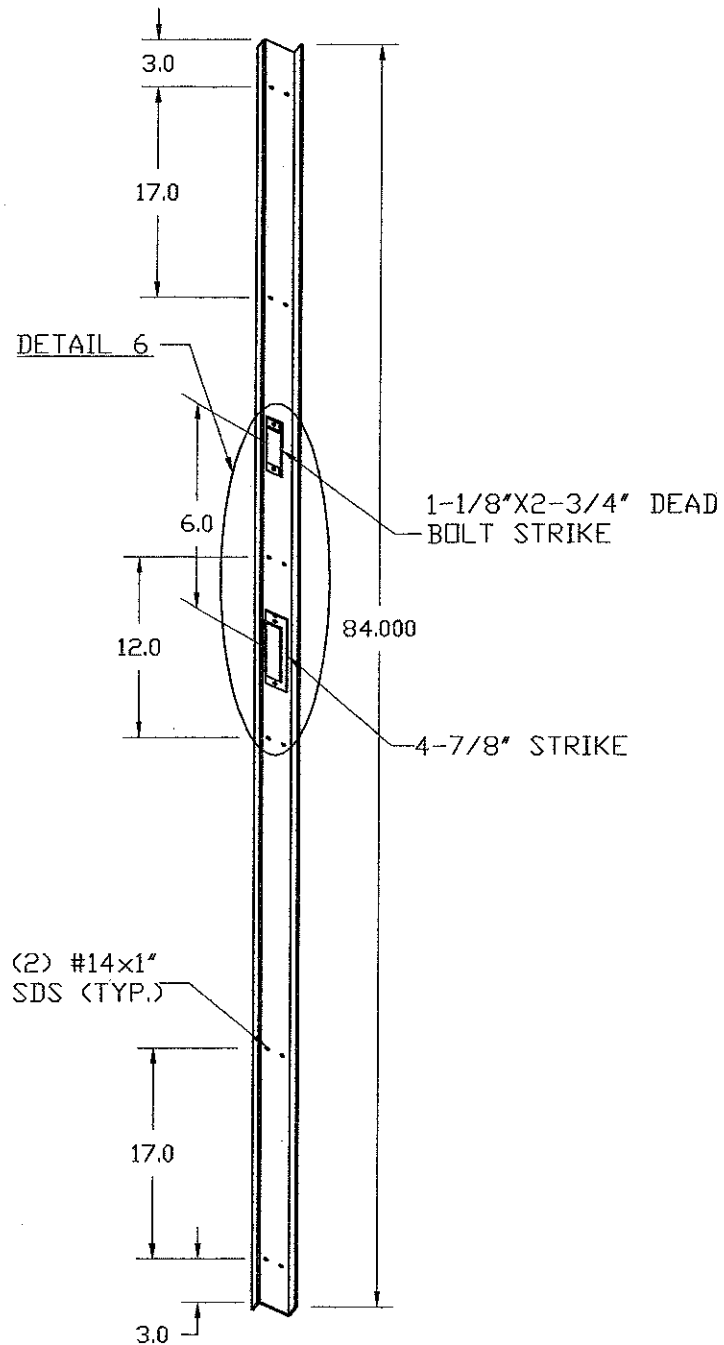
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DATE

15-052  
DRAWING No

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TEL: 905 625-8000 FAX: 905 625-4204

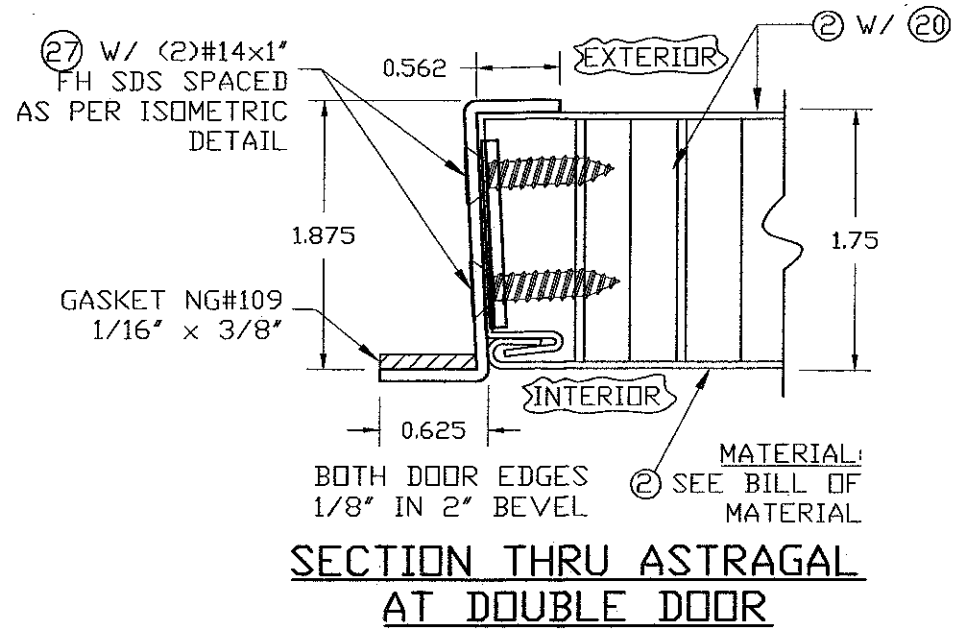
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2			4		

SHEET 9 OF 19

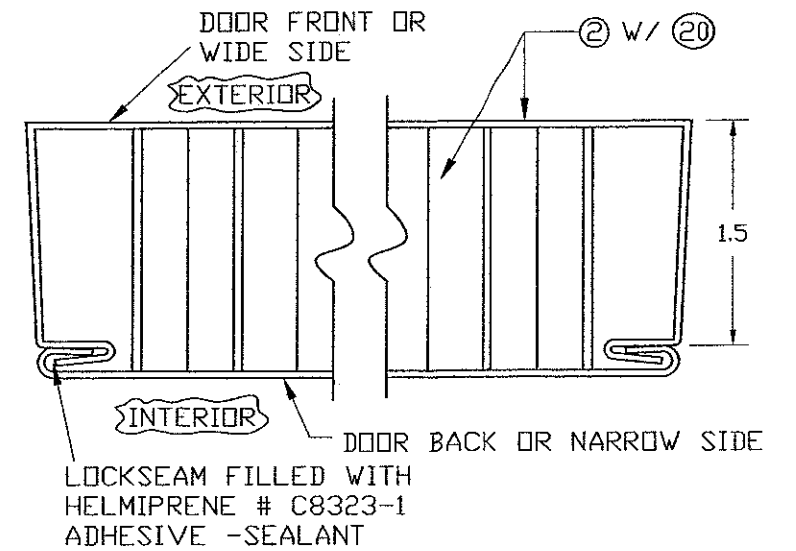


**(27) "Z" ASTRAGAL ISOMETRIC  
DETAIL**

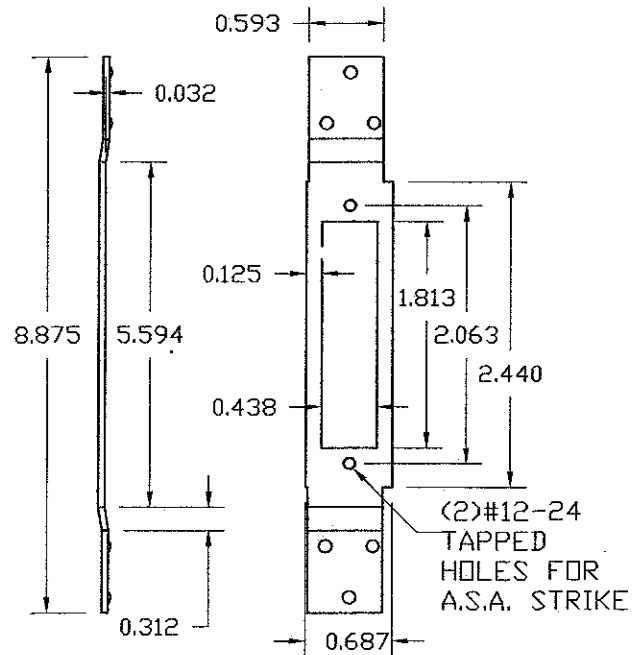
MATERIAL:  
0.075" THICK  
GALVANNEAL STEEL  
OR STAINLESS  
STEEL



**SECTION THRU ASTRAGAL  
AT DOUBLE DOOR**

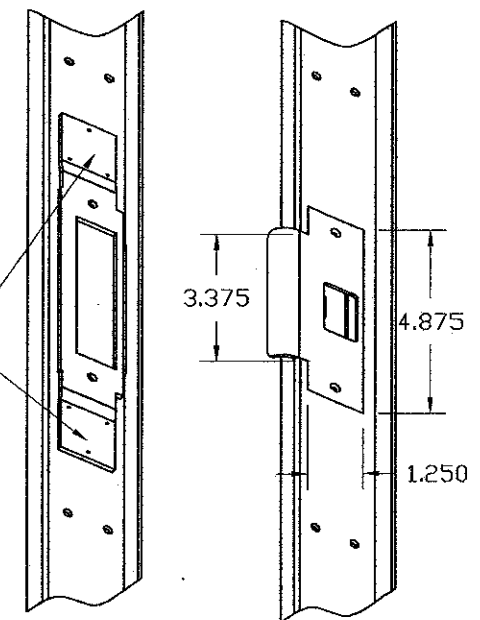


**TYPICAL CROSS SECTION  
THRU DOOR**

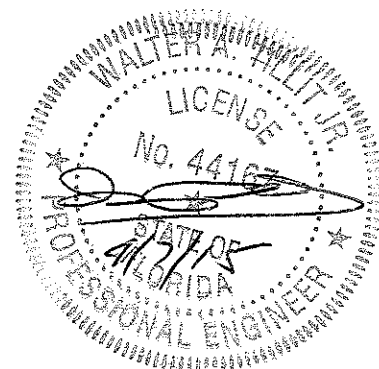


**12 GAGE GALVANNEAL STEEL OR STAINLESS STEEL  
ASA 1299 STRIKE  
REINFORCEMENT FOR ASTRAGAL**

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



**DETAIL 6**



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DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL  
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"  
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME  
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

**DAYBAR INDUSTRIES LTD**

50 WEST DRIVE, BRAMPTON,  
ON CANADA, L6Y 2J4  
TEL: 905 625-8000 FAX: 905 625-4204

DRAWN BY:  
F.R.L.

03/27/15  
DATE

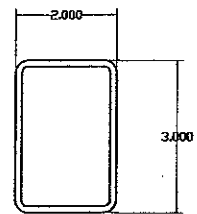
15-052  
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 12-080	03/27/15	3		
2			4		

8620 FITTING  
 (4) 5/16"-18 MACHINE SCREWS TO HEAD ①  
 (2) 1/4"-20 MACHINE SCREWS TO MOUNT COVER

COVER

⑮

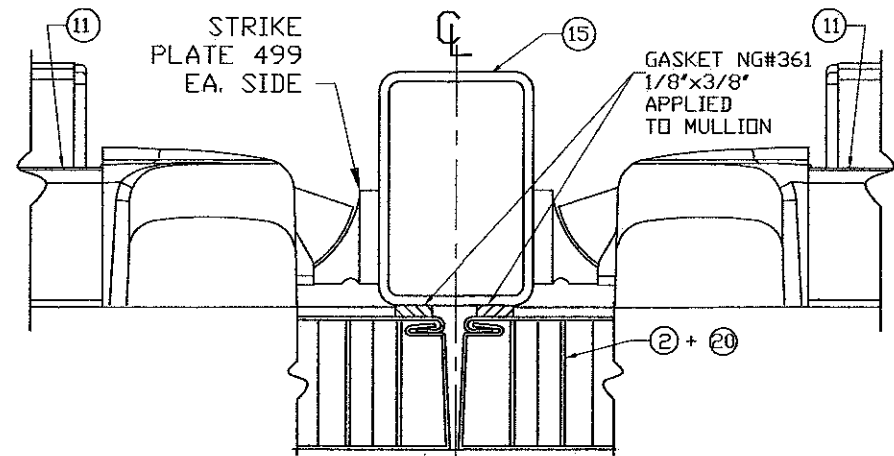


⑮ **MULLION BODY**  
 0.125 THK. WALL  
 A 500 GRADE B STEEL

(4) 5/16"x1 5/16" POWER FASTENERS HOLLOW SET DROP IN ANCHORS

8620 FITTING

**ISOMETRIC**

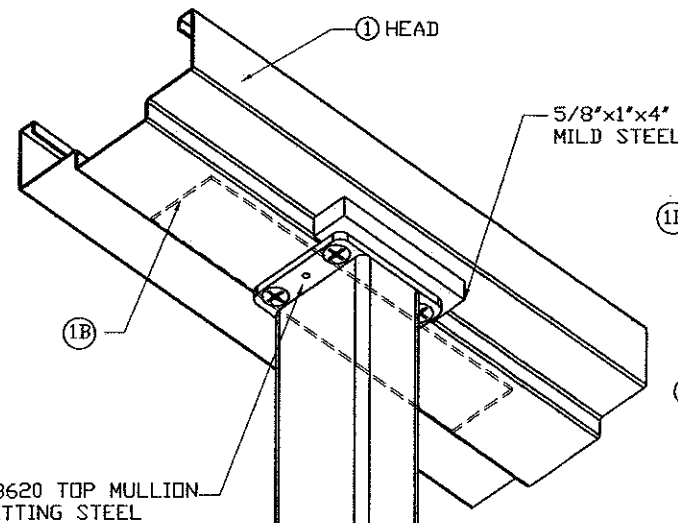


⑪ STRIKE PLATE 499 EA. SIDE

GASKET NG#361 1/8"x3/8" APPLIED TO MULLION

⑮ **MULLION/DOOR SEAL**

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

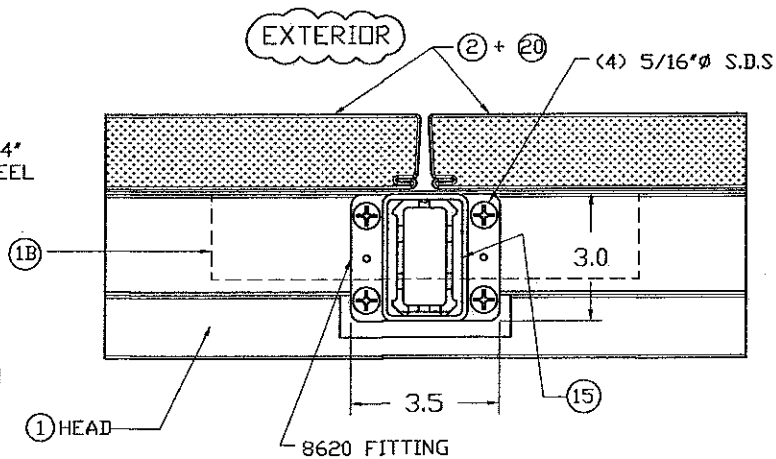


① HEAD

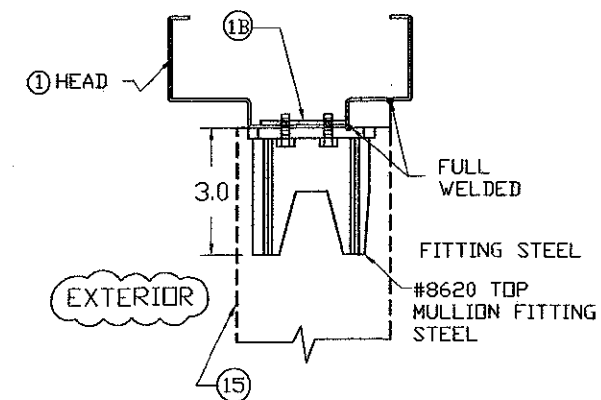
5/8"x1"x4" MILD STEEL

#8620 TOP MULLION FITTING STEEL

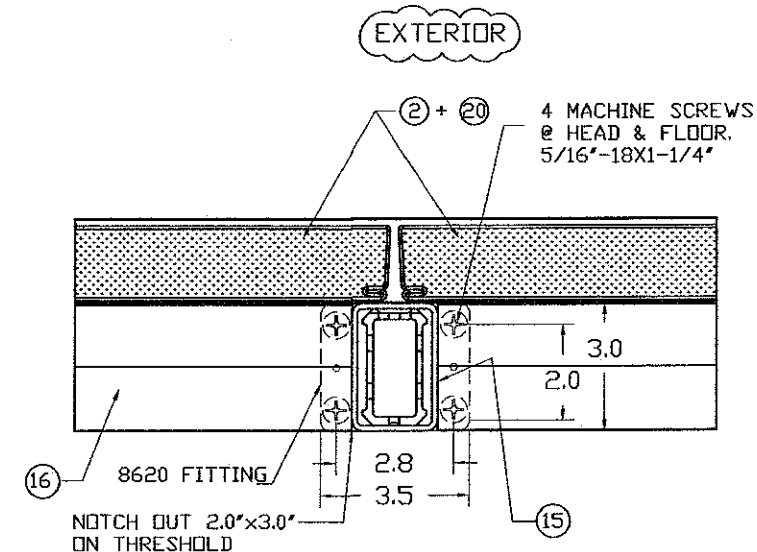
EXTERIOR



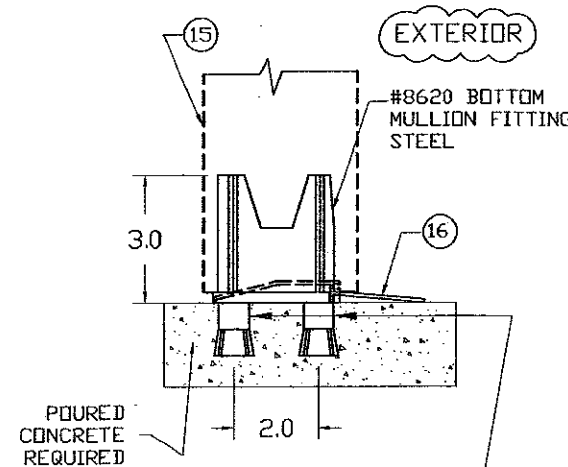
**CONNECTION AT TOP (PLAN)**



**SECTION**



**CONNECTION AT BOTTOM (PLAN)**

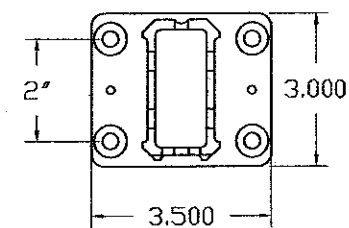


**SECTION**

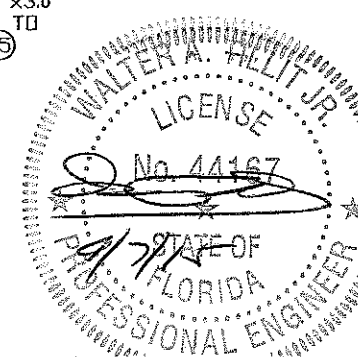
NOTCH OUT 2.0"x3.0" ON THRESHOLD TO FIT MULLION ⑮

DROP IN ANCHOR

#8620 BOTTOM MULLION FITTING STEEL



**MULLION FITTING 8620 STEEL**



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 FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

**DAYBAR INDUSTRIES LTD**

50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4  
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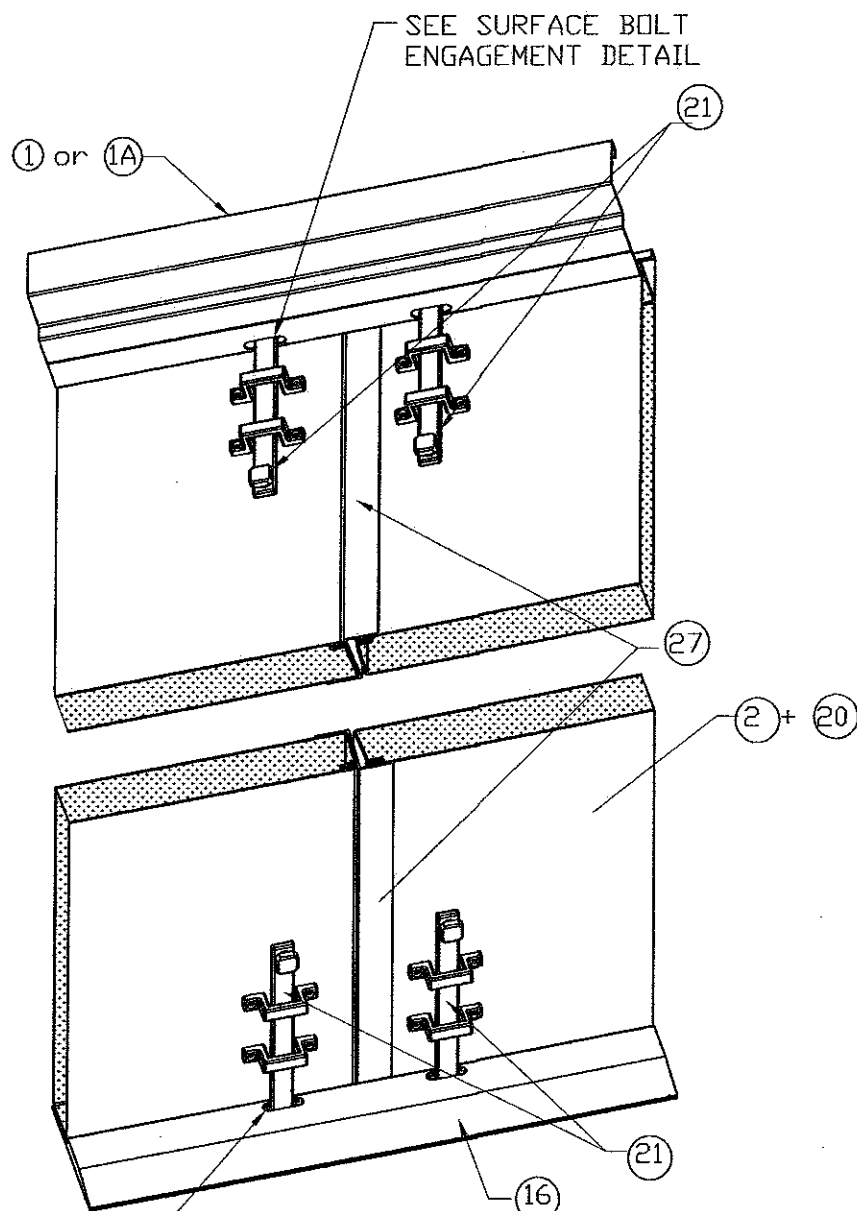
DRAWN BY: F.R.L.

03/27/15 DATE

15-052 DRAWING No

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2			4		

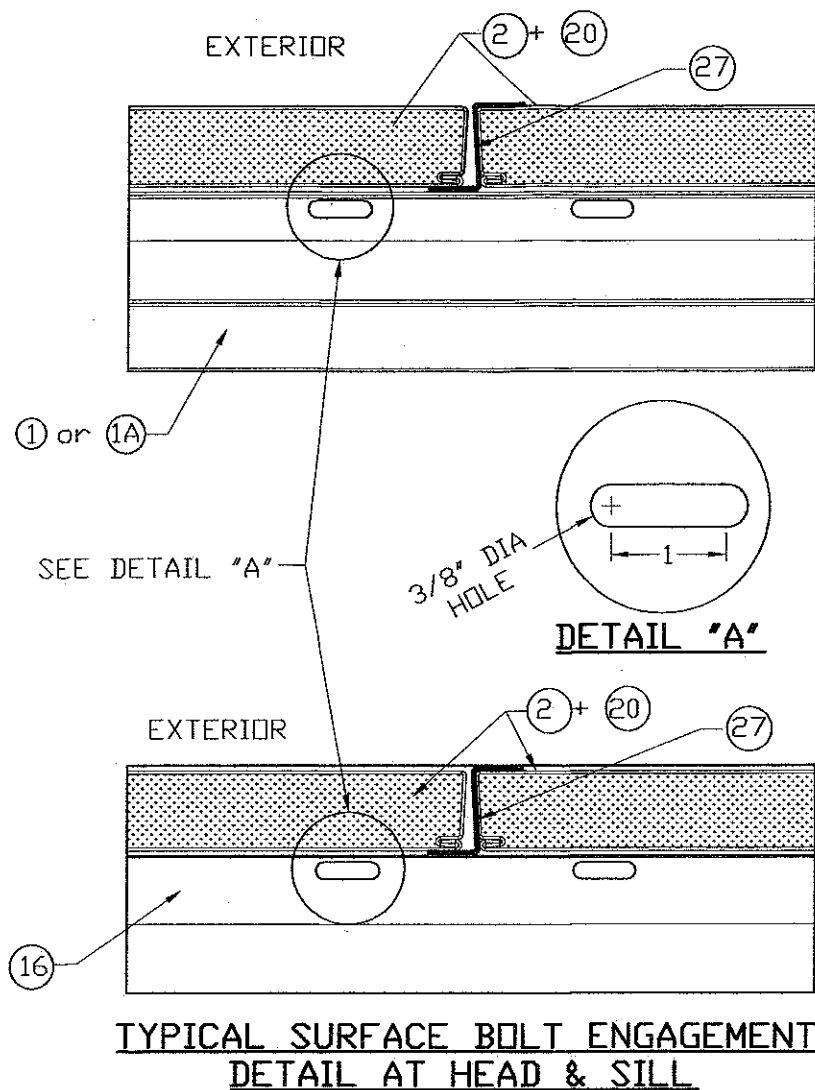
SHEET 11 OF 19



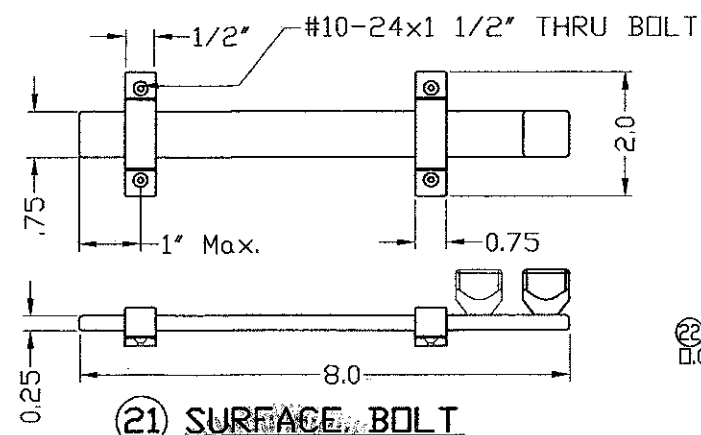
**SURFACE BOLT INSTALLATION AT DOOR W/ ASTRAGAL (INTERIOR VIEW)**

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

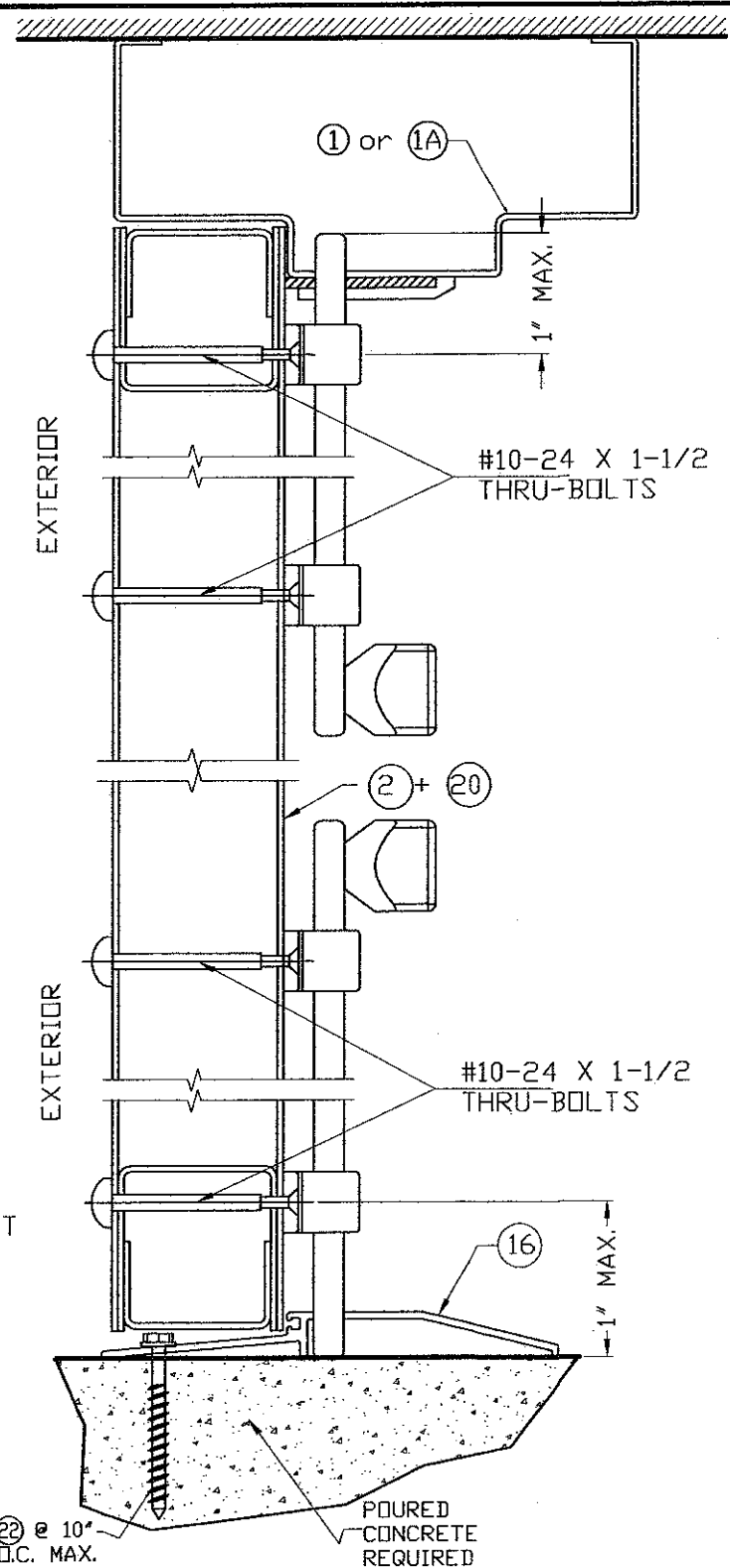
**21 8" #275D HAGER SURFACE BOLT**



**TYPICAL SURFACE BOLT ENGAGEMENT DETAIL AT HEAD & SILL**

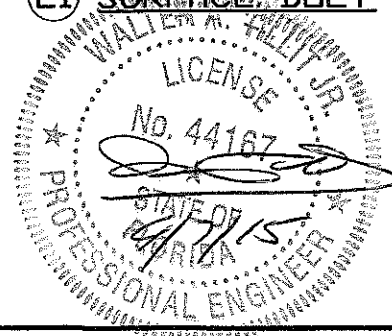


**21 SURFACE BOLT**



**TYPICAL SECTION**

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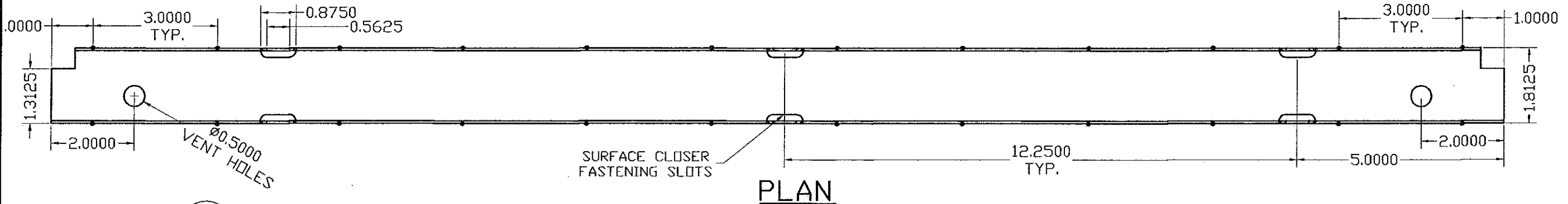
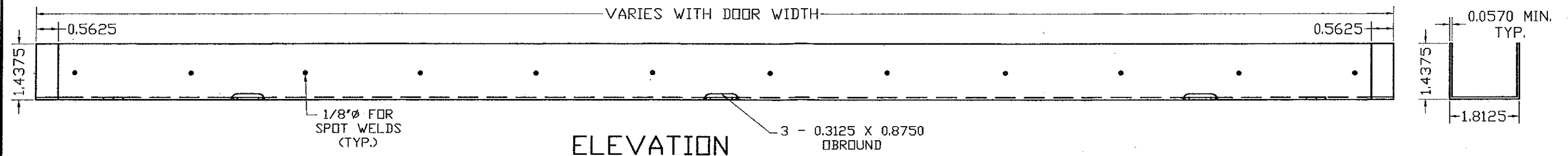
DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

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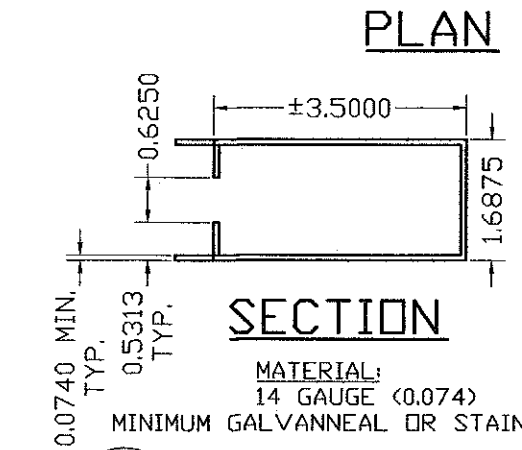
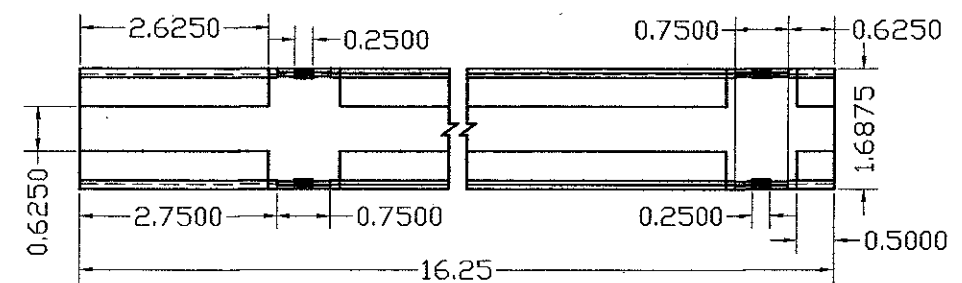
DRAWN BY: F.R.L.  
 DATE: 03/27/15  
 DRAWING No: 15-052  
 SHEET 12 OF 19

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD T2-080	03/27/15	3		
2			4		



**26 DOOR TOP AND BOTTOM TYPICAL END CHANNEL DETAIL**

MATERIAL:  
16 GAUGE (0.057) MINIMUM  
GALVANNEAL STEEL OR STAINLESS STEEL

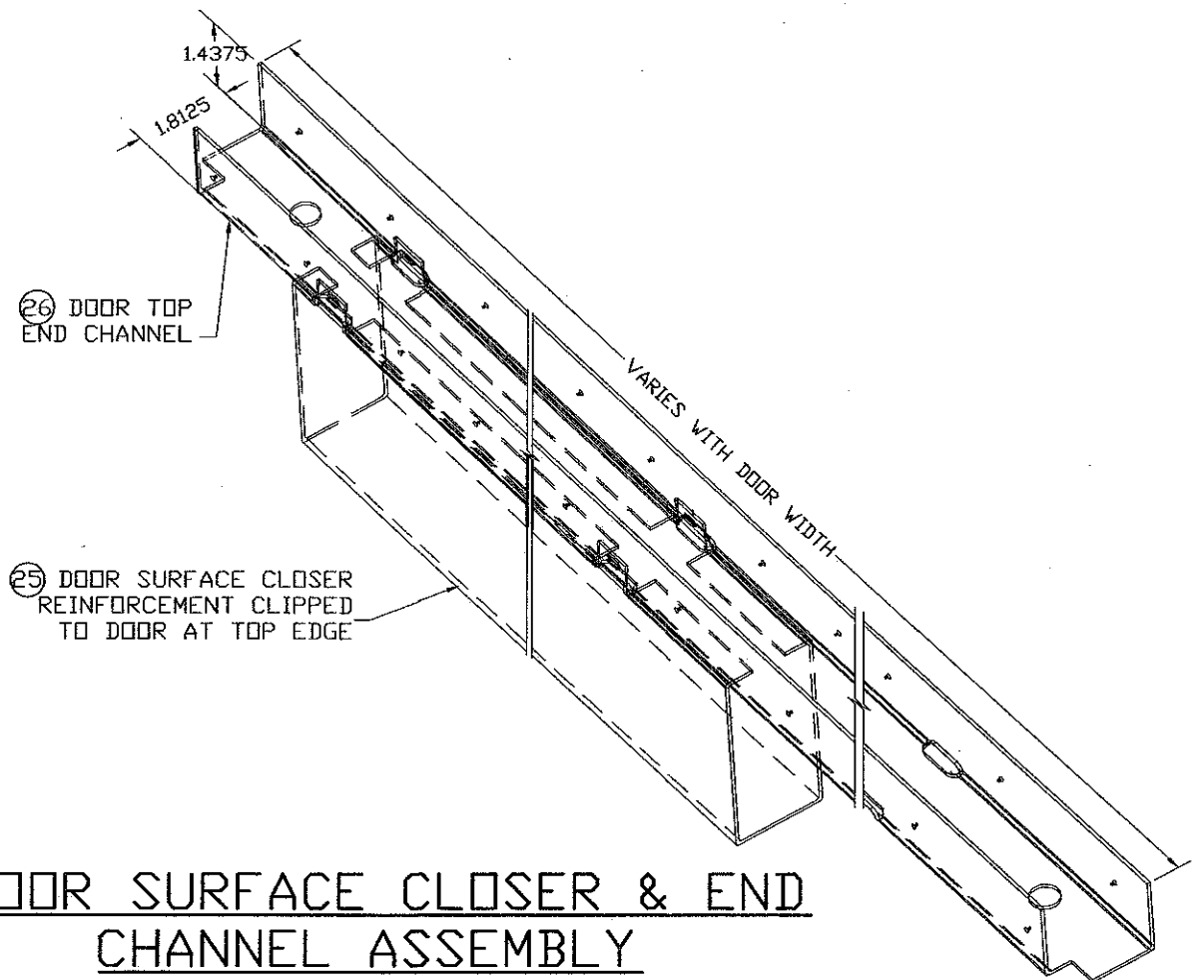
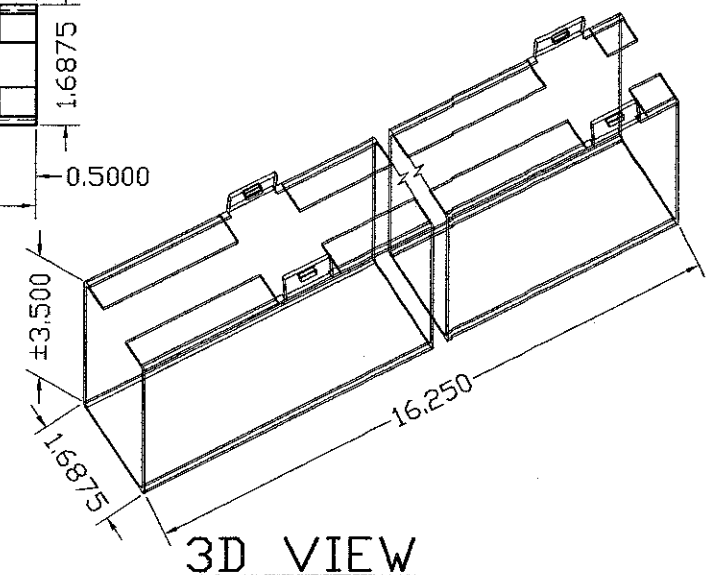


MATERIAL:  
14 GAUGE (0.074)  
MINIMUM GALVANNEAL OR STAINLESS STEEL

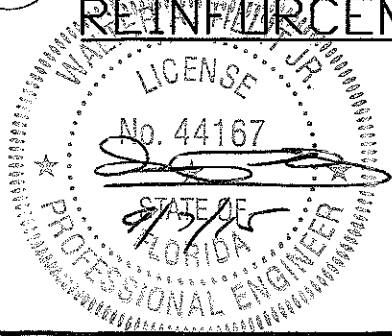
LAMINATED TO EACH FACE OF DOOR  
W/ CONTACT ADHESIVE (HELHIBOND 8326-1)  
AT HINGE EDGE AND TOP END CHANNEL.

**25 DOOR SURFACE CLOSER REINFORCEMENT DETAIL**

**3D VIEW**



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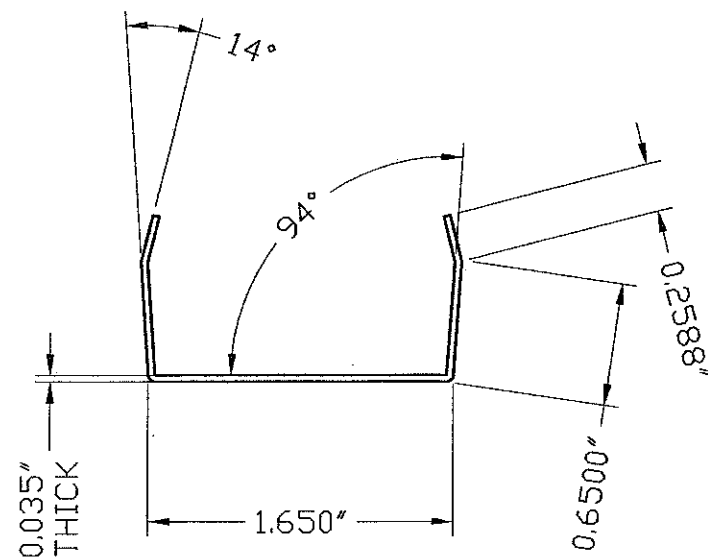
DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

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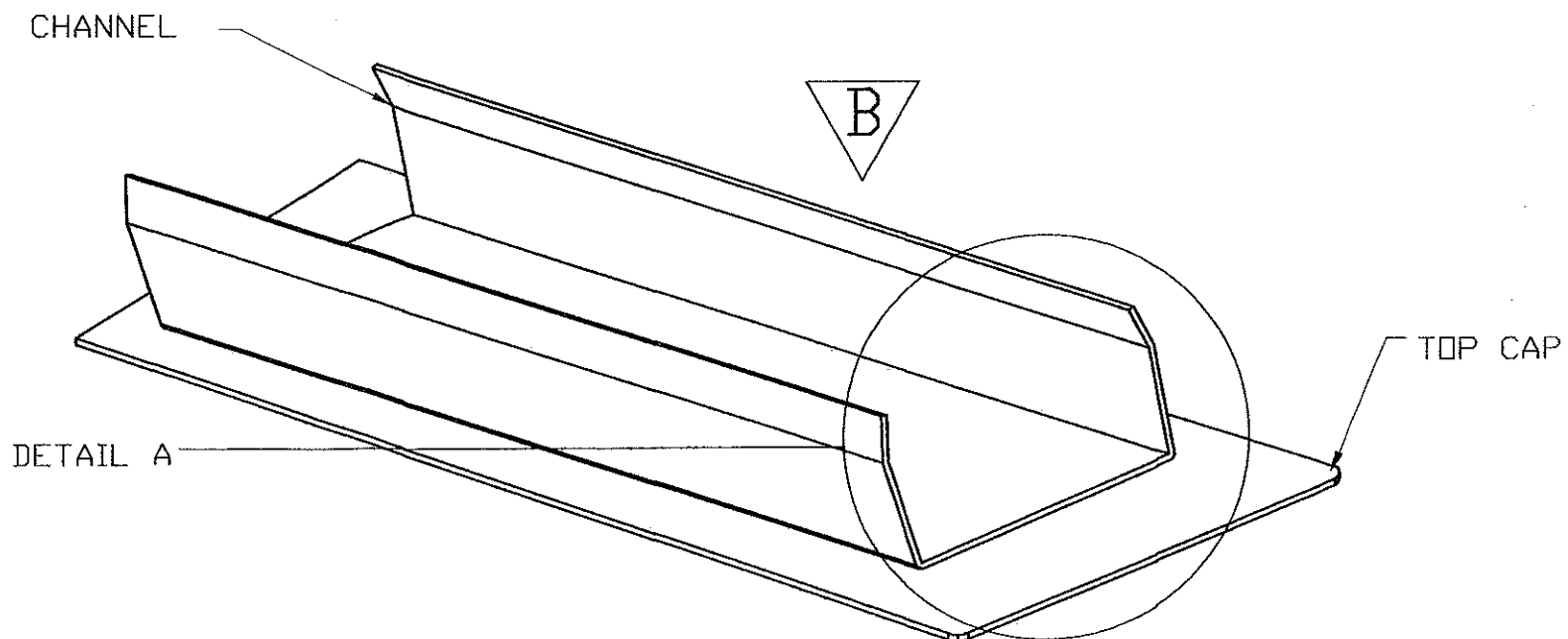
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TEL: 905 625-8000 FAX: 905 625-4204

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SHEET 13 OF 19	

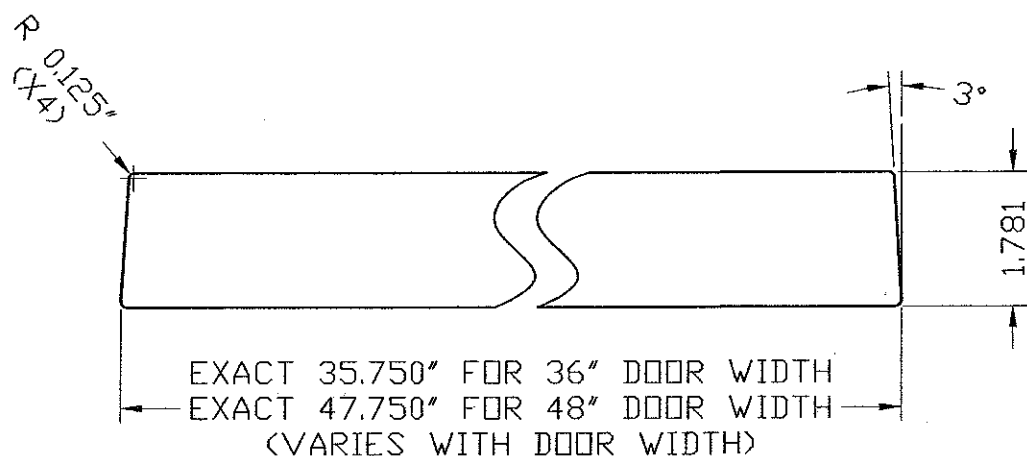
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2			4		



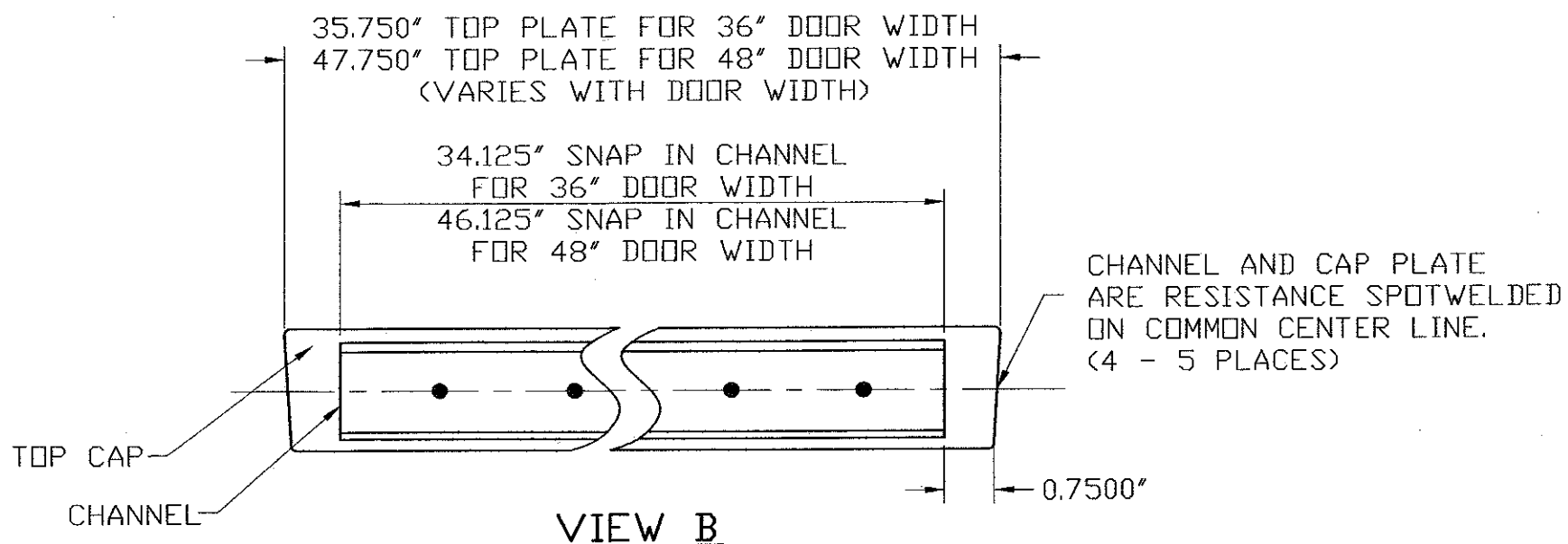
**DETAIL A  
SNAP IN CHANNEL**



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



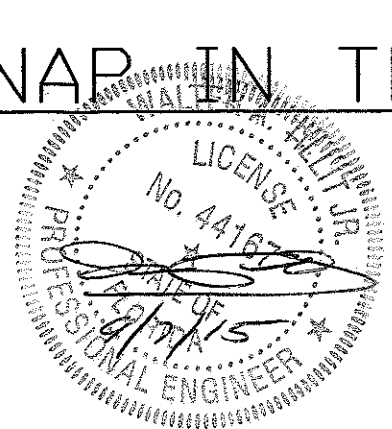
**STANDARD TOP CAP**



**28 DOOR SNAP IN TOP CAP DETAIL**

MATERIAL: 20 GA GALVANNEAL STEEL ASTM A-653, A-60 OR STAINLESS STEEL FOR BOTH PIECES.

INSTALLATION OPTIONS:  
 (A) CAULK AND PRESSFIT  
 (B) CAULK, PRESSFIT AND TACK WELD



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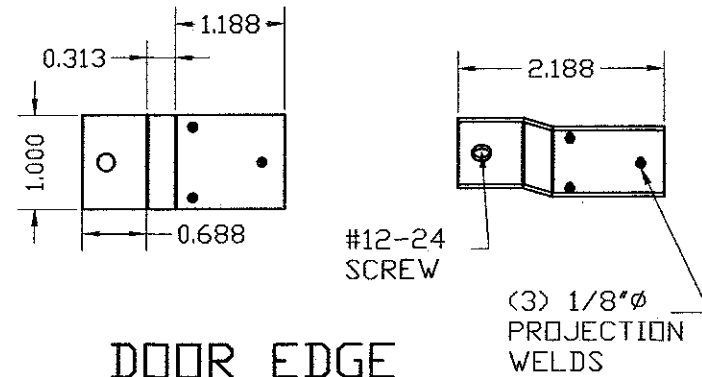
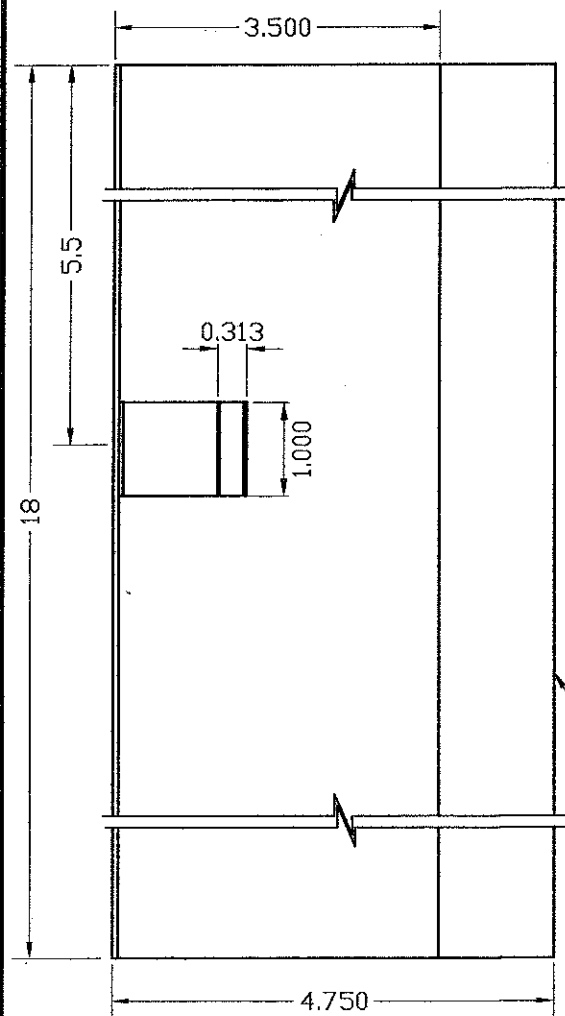
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 DATE  
 15-052  
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 12-080	03/27/15	3		
2			4		



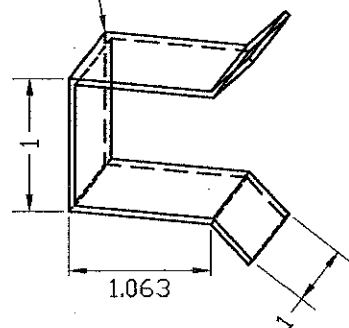


**DOOR EDGE MOUNTING TAB**

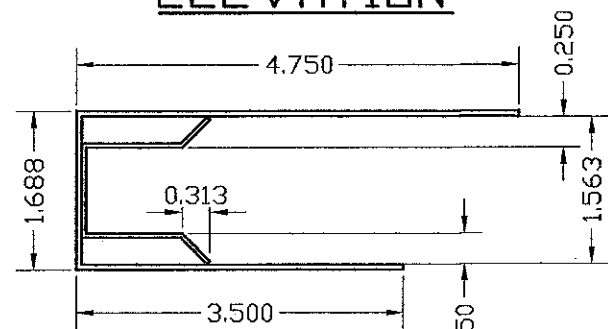
14 GA (0.074) MIN GALVANNEAL STEEL OR STAINLESS STEEL

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



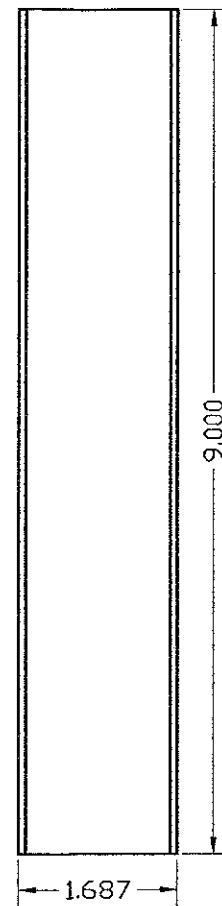
**ELEVATION**



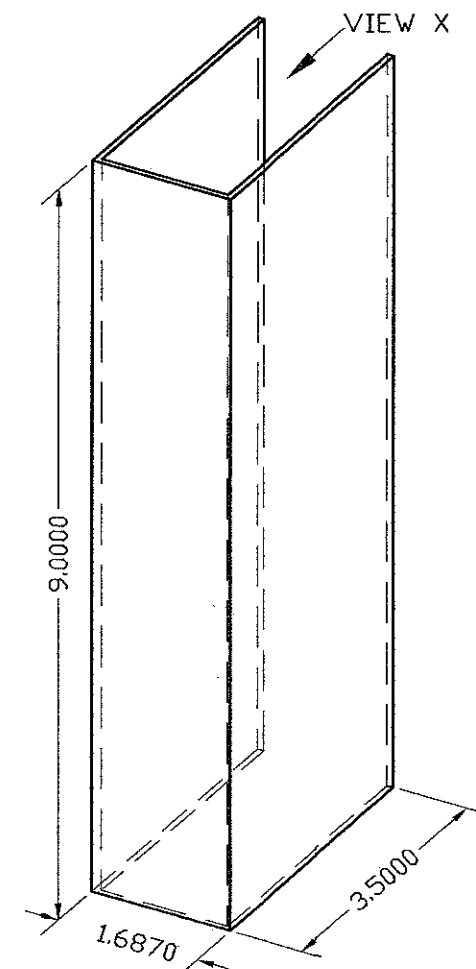
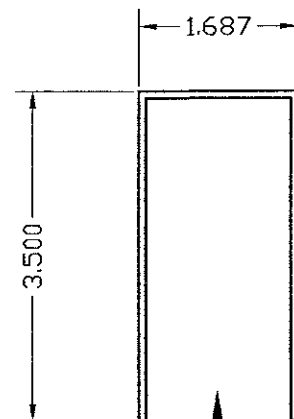
**PLAN**

MATERIAL: ALL GALVANNEAL STEEL OR STAINLESS STEEL

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



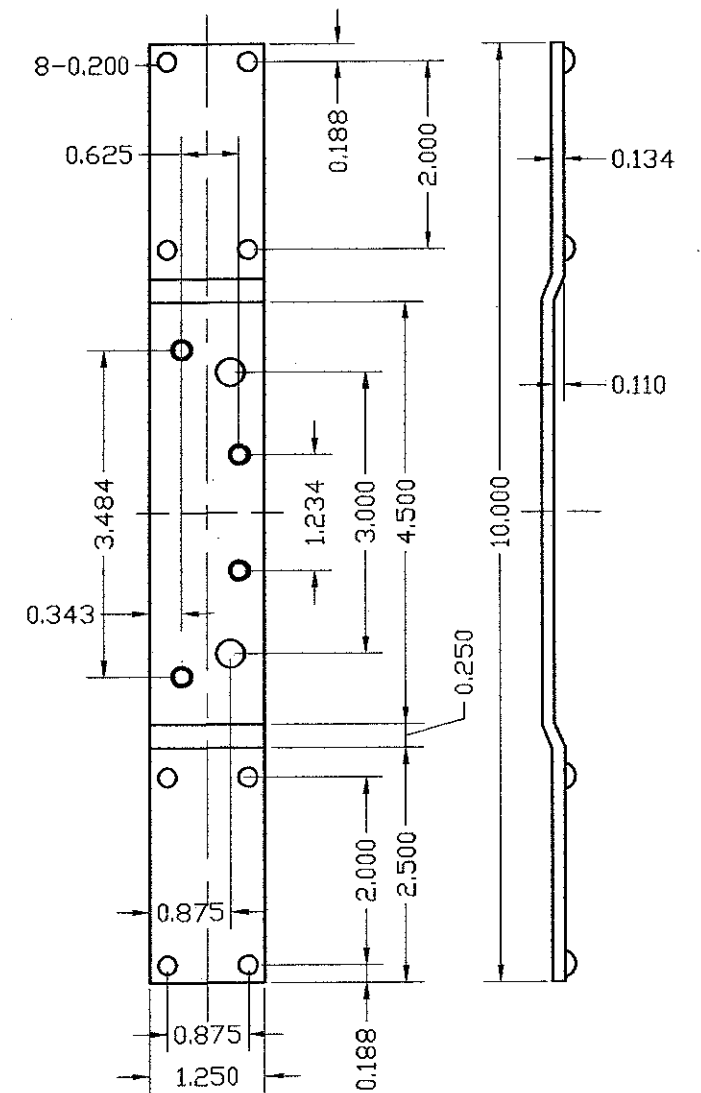
**VIEW X**



**3D VIEW**

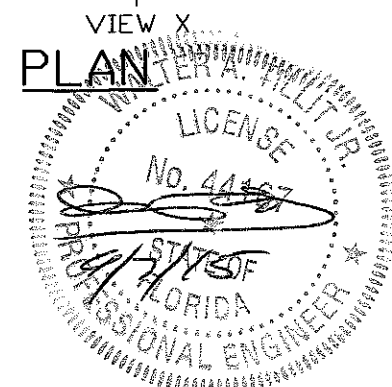
MATERIAL: 14 GAUGE (0.074) MINIMUM GALVANNEAL STEEL OR STAINLESS STEEL, GLUED TO DOOR AT HEAD & SILL USING HEMILBOND 8320-1 CONTACT ADHESIVE.

**(18) DOOR SURFACE BOLT REINFORCING DETAIL**



**(17) 4 1/2" HINGE BAR REINFORCING FOR DOOR**

MATERIAL: 8 GAUGE GALVANNEAL STEEL OR STAINLESS STEEL



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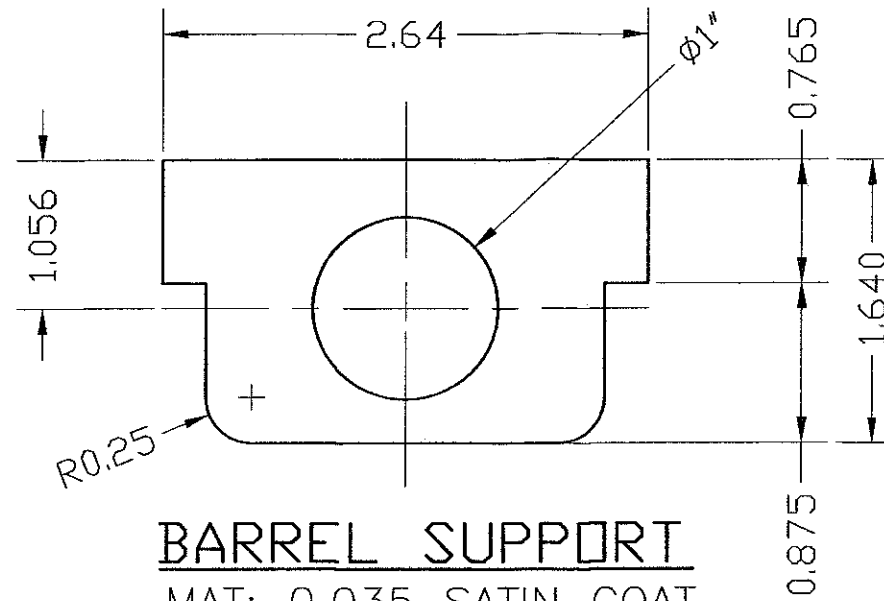
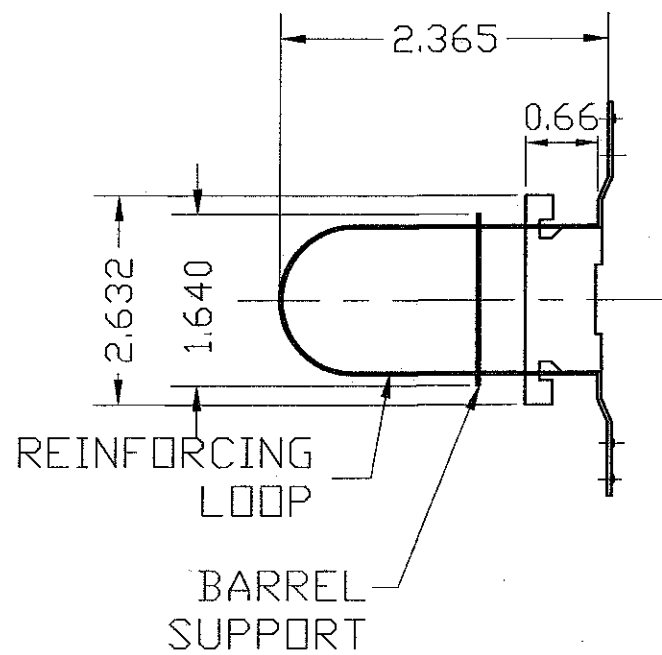
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

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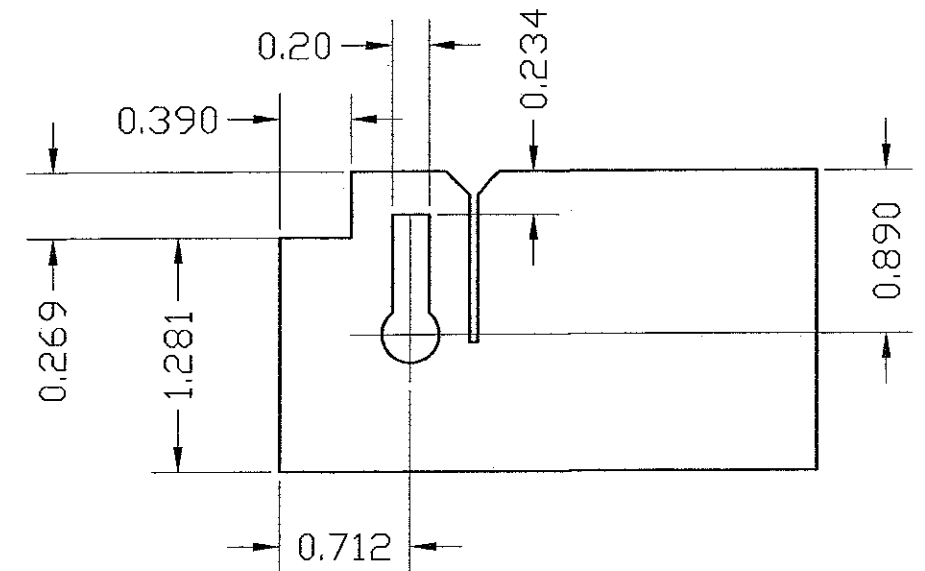
DRAWN BY: F.R.L.  
03/27/15 DATE  
15-052 DRAWING No

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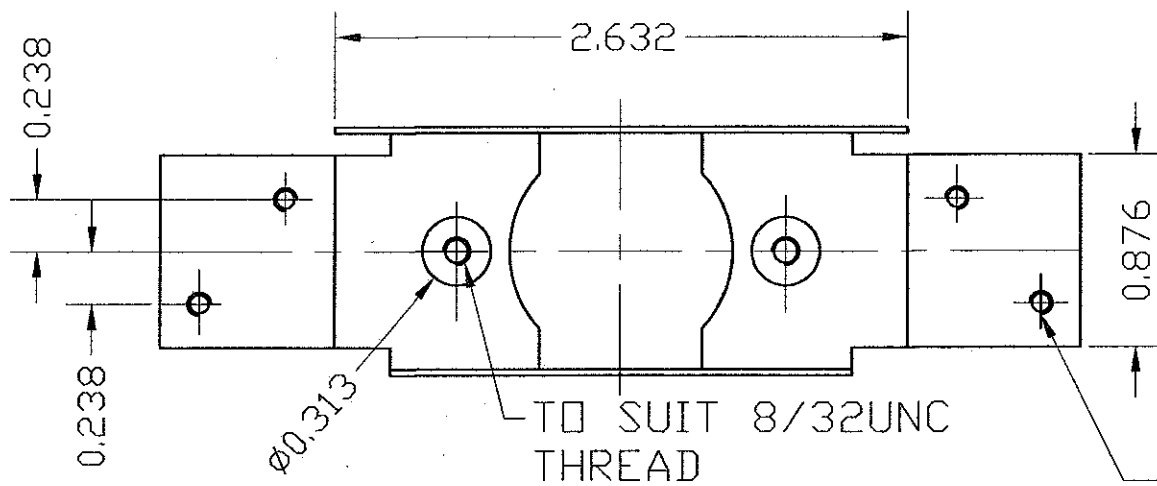
**BARREL SUPPORT**

MAT: 0.035 SATIN COAT  
STEEL OR STAINLESS STEEL



**REINFORCING LOOP**

MAT: 0.035 SATIN COAT  
STEEL OR STAINLESS STEEL

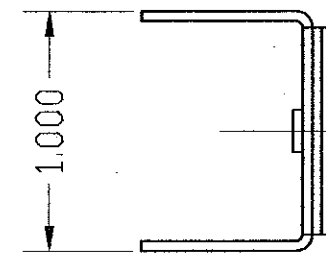


**#161 EDGE REINFORCING**

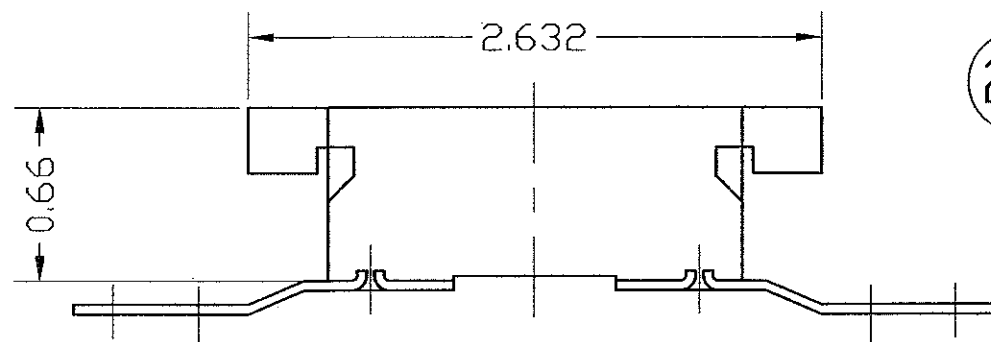
MAT: 0.078 SATINCOAT STEEL OR  
STAINLESS STEEL

(4) 1/16"  $\phi$   
PROJECTION  
WELDS

← VIEW X

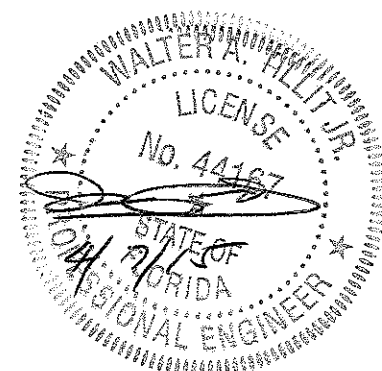


VIEW X



**SECTION THROUGH  
EDGE REINFORCING**

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



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DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL  
GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS"  
16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME  
FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.

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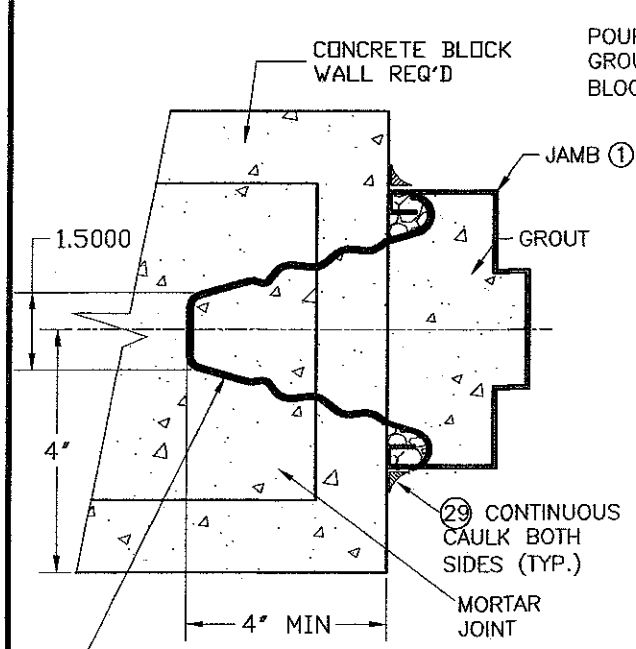
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F.R.L.

03/27/15  
DATE

15-052  
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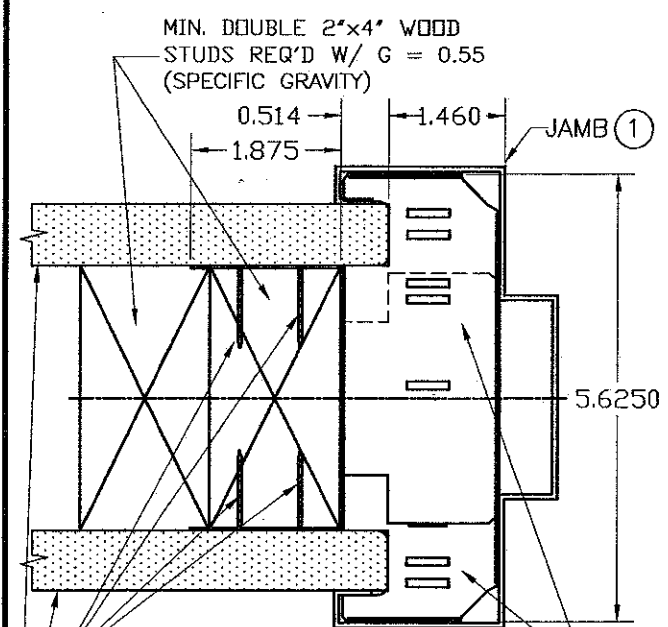
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2			4		

SHEET 16 OF 19



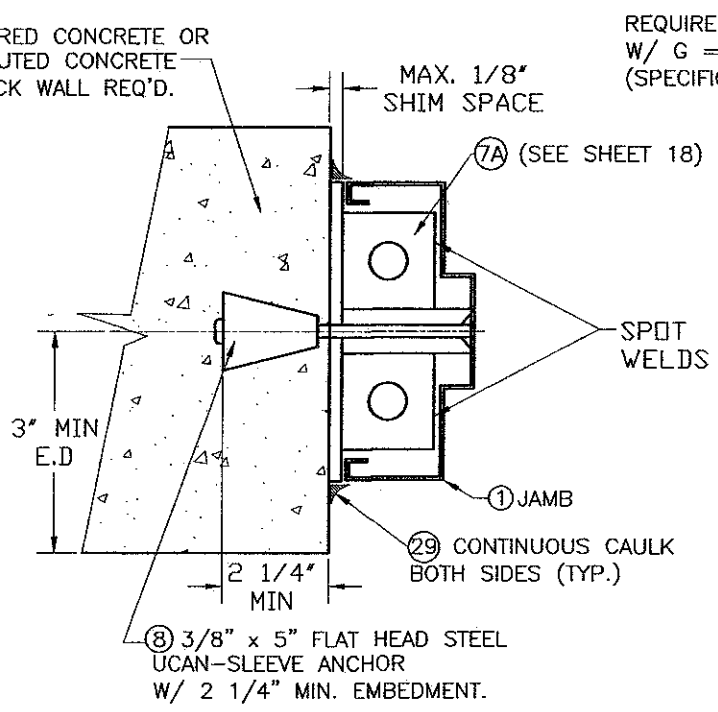
⑥ MASONRY WIRE ANCHORS IN HORIZ. MORTAR JOINTS; FILL JAMBS ① SOLID WITH GROUT PER ASTM C476 W/ MIN. COMPRESSION STRENGTH OF 2.5 KSI (SEE SHEET 18)

**DETAIL #21**  
**WIRE ANCHOR ⑥**  
**INSTALLATION TO**  
**MASONRY WALLS**

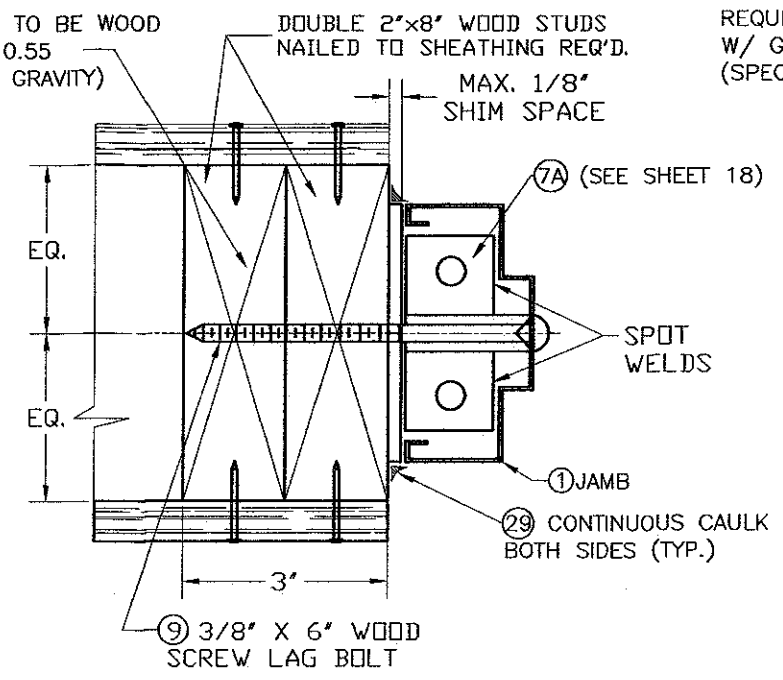


(4) #8 W/ 1-1/4" MIN. THREADED PENETRATION F.H. WOOD SCREWS PER ANCHOR  
1/2" MIN. GYPSUM WALL BOARD OR PLYWOOD SHEATHING (TYP.)

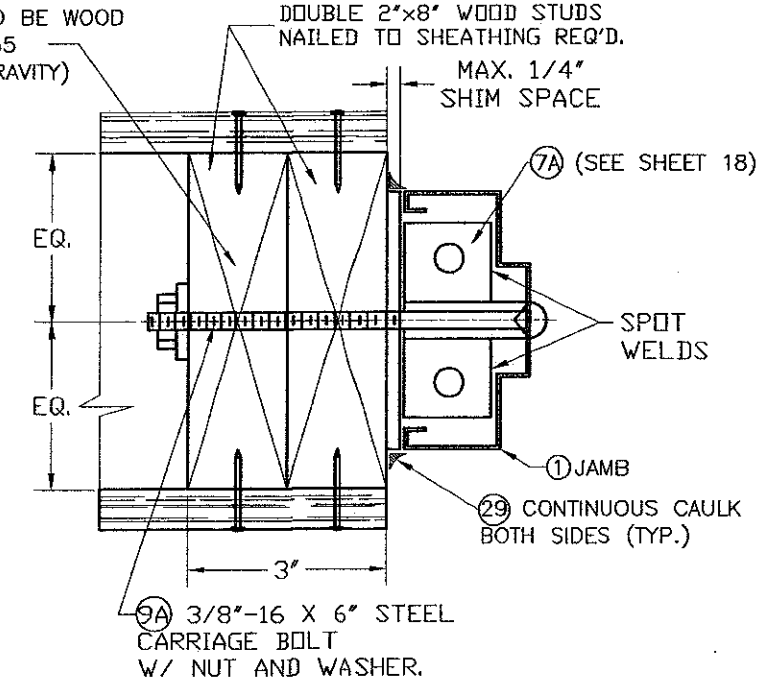
**DETAIL #20**  
**INSTALLATION OF 2 PIECE COMBINATION**  
**STUD ANCHOR ⑦ INTO WOOD FRAME WALLS**



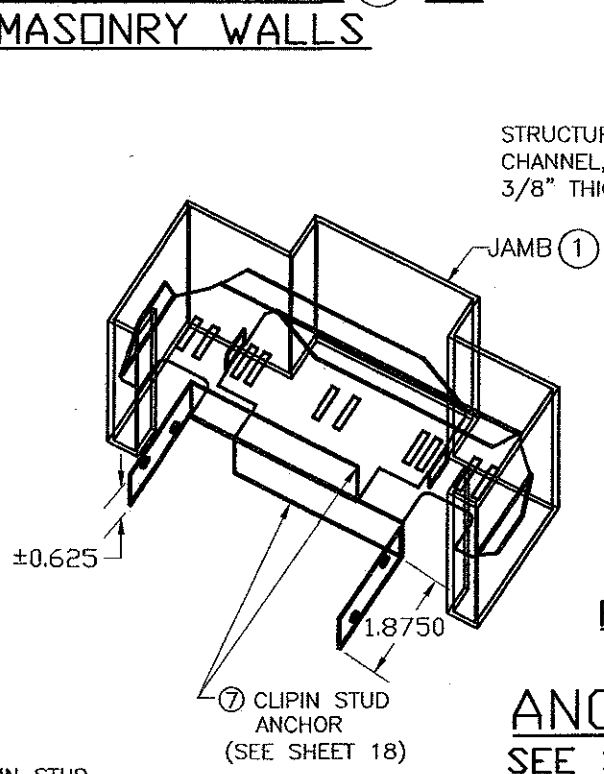
**DETAIL #22**  
**INSTALLATION OF UCAN**  
**SLEEVE ANCHORS ⑧ TO**  
**MASONRY WALLS**



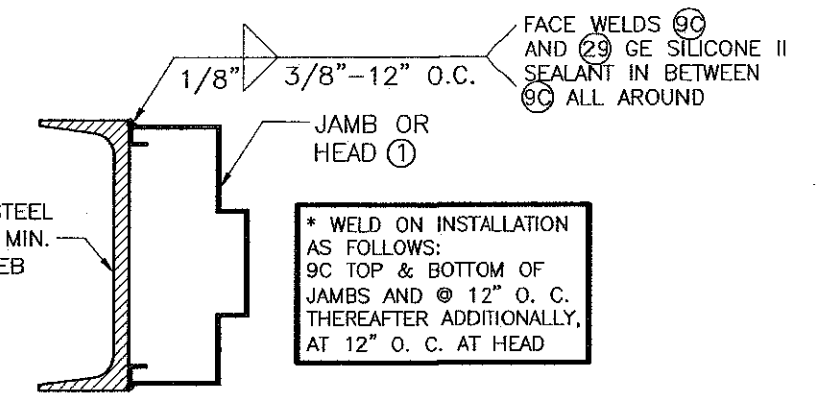
**DETAIL #22A**  
**INSTALLATION OF 3/8"Ø LAG**  
**SCREW ⑨ TO WOOD FRAME WALLS**



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



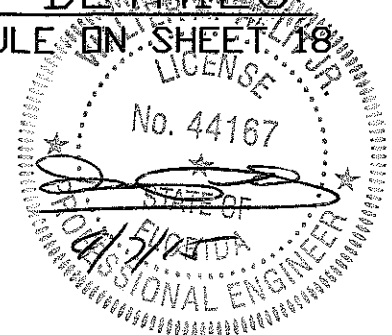
**DETAIL #23A**  
**INSTALLATION OF 3/8"Ø**  
**F.H. M.S. ⑨B TO STEEL CHANNEL**



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

\* WELD ON INSTALLATION AS FOLLOWS:  
9C TOP & BOTTOM OF JAMBS AND @ 12" O. C. THEREAFTER ADDITIONALLY, AT 12" O. C. AT HEAD

**ANCHOR DETAILS:**  
**SEE SCHEDULE ON SHEET 18**



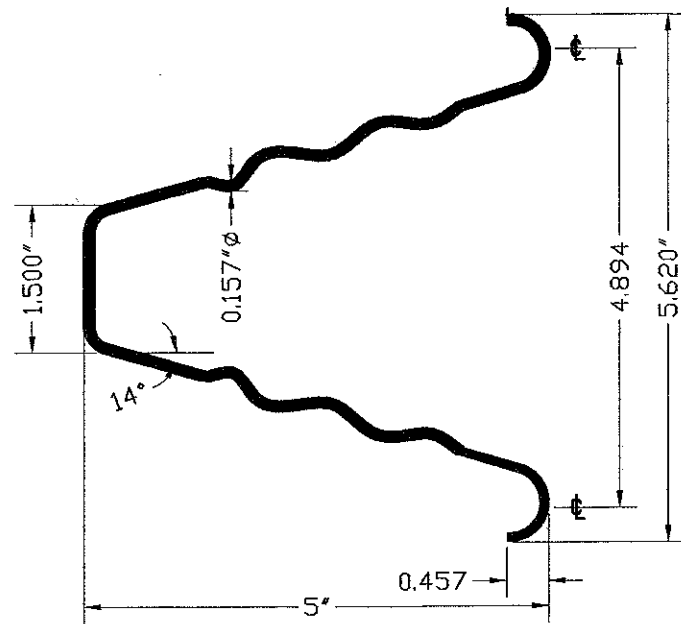
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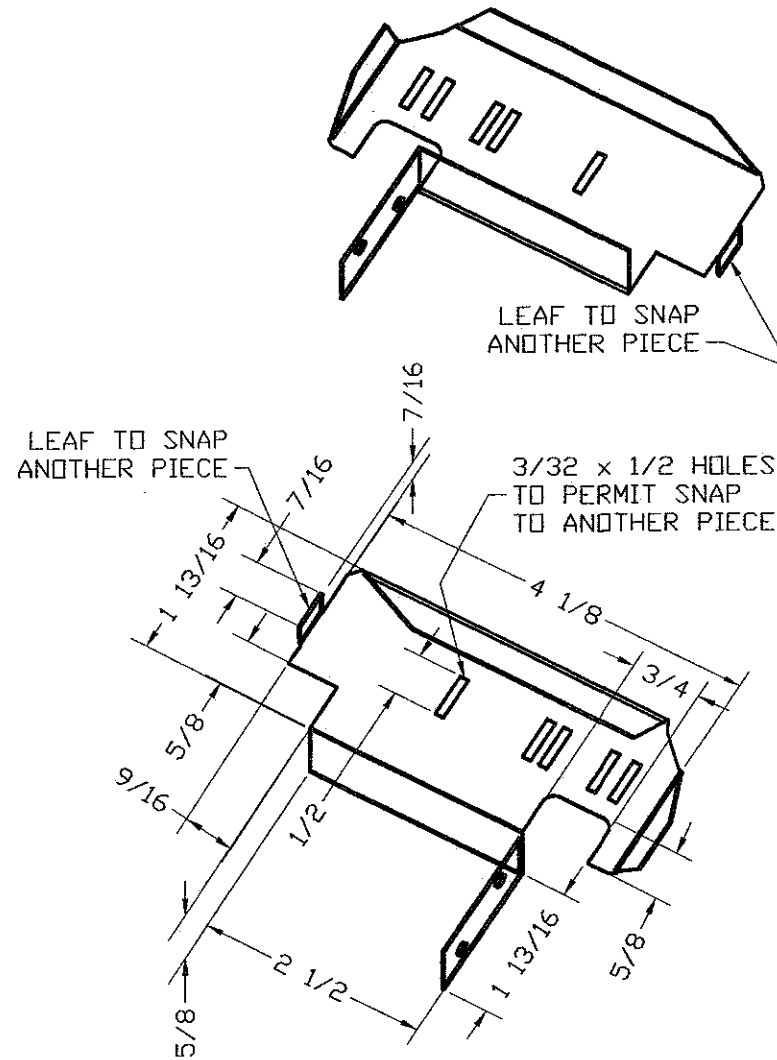
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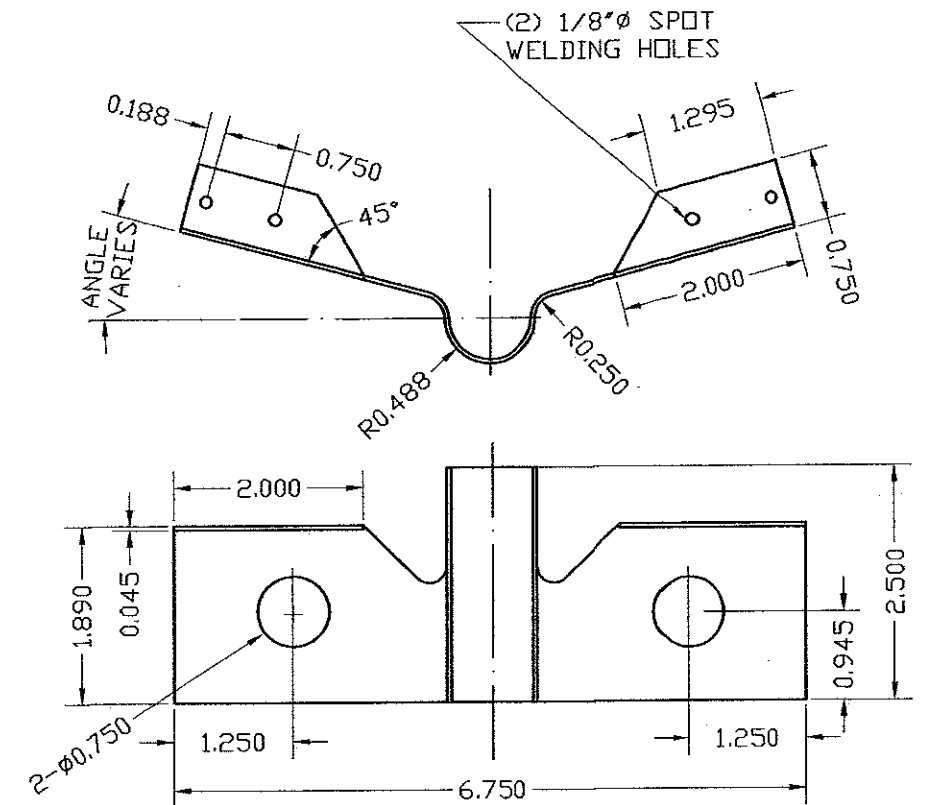
**⑥ WIRE ANCHOR  
FOR DETAIL #21/17**

STEEL WIRE ANCHORS  
(0.157" DIA, 9 1/2" LONG) IN HORIZ.  
Fu Min.=95.9 Ksi, Fy Min.=40.2 Ksi



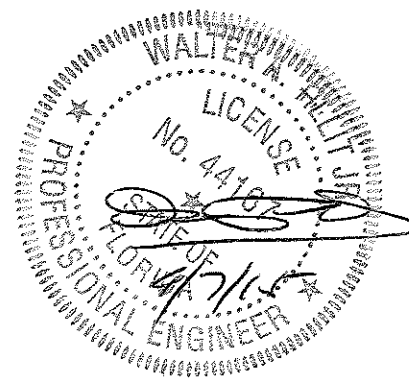
**⑦ 2 PIECE COMBINATION STUD  
ANCHOR FOR DETAIL #20/17**

CLIPIN STUD ANCHOR MATERIAL:  
GAUGE 20 (0.035) ASTM A-653,  
A-60 GALVANNEALED STEEL.



**⑦A EMA BUTTERFLY ANCHOR (PART #PT1-008)  
FOR DETAILS 22/17, 22A/17, 22B/17 & 23A/17**

MATERIAL: 18 GA SATIN COAT



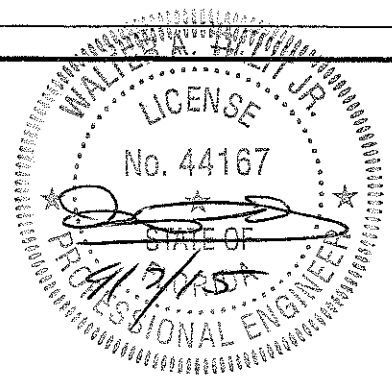
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

© 2015 TILTECO INC. (ENGINEERING)		DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSED & GLAZED ASSEMBLIES - L.M.		DRAWN BY: F.R.L.	
<p><b>TILTECO Inc.</b> TILLIT TESTING &amp; ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33186 Phone: (305)871-1530 Fax: (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167</p>		<p><b>DAYBAR INDUSTRIES LTD</b> 50 WEST DRIVE, BRAMPTON, ON CANADA, L7T 2J4 TEL: 905 625-8000 FAX: 905 625-4204</p>		03/27/15 DATE	
				15-052 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 12-080	03/27/15	3		
2			4		

**BILL OF MATERIALS:**

ITEM	QTY	DESCRIPTION	MATERIAL	SIZE AND SPEC'S
1	1	16 GAUGE JAMB/ HEAD FRAME SERIES "AS"	16 GAUGE .058 MINIMUM. ALL COMPONENTS OF THIS ITEM, i.e., HEAD, JAMBS, REINFORCEMENTS AND ANCHORS ARE COMMERCIAL GALVANIZED STEEL (TYPE B), ASTM A653/A653M, COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL W/ MIN. TENSILE STRENGTH 52 KSI, MIN. YIELD STRENGTH 45 KSI, ELONGATION 40% OR STAINLESS STEEL*	5 3/4" DEPTH X 2" FACE X .058" MIN THICK (SEE SHEET 9)
1A	1	16 GAUGE OPTIONAL HEAD FRAME SERIES "AS"	SAME AS ITEM 1	5 3/4" DEPTH X 4 3/8" FACE X .058" MIN THICK (SEE SHEET 9)
1B	1	SURFACE STRIKE REINFORCING	12 GAGE GALVANNEAL STEEL OR STAINLESS STEEL*	12 GAGE (.0097" MIN.) X 1.500" X 11.875" LONG, SEE DETAIL ON SHEET 9.
2	1	18 GAUGE FLUSH/EMBOSSSED DOOR COMMERCIAL W/ CORE (2)	18 GAUGE .045 MINIMUM. ALL COMPONENTS OF THIS ITEM, i.e., FACE SHEETS, INTERNAL COMPONENTS AND REINFORCEMENTS ARE GALVANIZED STEEL CONFORMING TO ASTM A924, TO ASTM A653/A653M, COMMERCIAL STEEL (TYPE B), COATING DESIGNATION A40, KNOWN COMMERCIALLY AS PAINTABLE GALVANNEAL W/TENSILE STRENGTH 60 KSI, AND YIELD STRENGTH MIN. 45 KSI, ELONGATION 40% OR STAINLESS STEEL*	1 3/4" THICK X (.045 MIN), SEE SHEET 4, 5, 6 & 7.
3	3	8 GAUGE DOOR HINGE REINFORCING	GALVANNEAL STEEL OR STAINLESS STEEL*	1 1/4" X 10" X 8 GAUGE
4	3	8 GAUGE FRAME HINGE REINFORCING	GALVANNEAL STEEL OR STAINLESS STEEL*	1 1/2" X 8 3/4" X 8 GAUGE
5	1	STRIKE REINFORCING (FRAME)	GALVANNEAL STEEL OR STAINLESS STEEL*	1 3/8" X 7 5/16" X 14 GAUGE (.072 MIN)
6	AS REQ'D	WIRE MASONRY FRAME ANCHORS	STEEL W/ MIN. YIELD STRENGTH = 40.2KSI AND MIN. TENSILE STRENGTH = 95.9 KSI	9 1/2" LONG X 0.157" MIN. DIAMETER.
7	AS REQ'D	CLIPIN STUD ANCHORS (2 PIECE COMBINATION)	STEEL, ASTM A-653, A-60 GALVANNEAL	1 7/8" X 5 5/8" X 20 GAUGE (.035 MIN) W/ (4)#8 X 1 5/8" WOOD SCREWS
7A	AS REQ'D	EMA BUTTERFLY ANCHOR (PART #PT1-008)	STEEL	18 GAUGE STEEL SATIN COAT.
8	AS REQ'D	EMA ANCHOR BOLTS	STEEL, W/ Fy = 45,000 psi.	3/8" X 5" STEEL UCAN-SLEEVE ANCHOR
9	AS REQ'D	WOOD SCREW LAG BOLT	STEEL, W/ Fy = 45,000 psi.	3/8" X 6"
9A	AS REQ'D	CARRIAGE ANCHOR BOLT	STEEL, W/ Fy = 45,000 psi.	3/8"-16 X 6" STEEL CARRIAGE BOLT C/W NUT AND WASHER, PER ASTM A-307
9B	AS REQ'D	F.H. M.S. TO STEEL CHANNEL THROUGH BOLTING	STEEL, W/ Fy = 45,000 psi.	3/8" X 3 1/2" STEEL F.H. M.S., PER ASTM A-307
9C	AS REQ'D	STEEL CHANNEL WELDING	E60XX ELECTRODE FOR GALVANNEAL STEEL, E-308 ELECTRODES FOR STAINLESS STEEL	WELD ON INSTALLATION, MIN. 1/8"x3/8" STITCH WELD
10	3	HINGES-HAGER BB1279, BB1168HD OR STANLEY FBB179, FBB168	STEEL	4.5" X 4.5" STANDARD WEIGHT (.134 THICK), ATTACHED TO FRAME W/(4) 12-24x1/2" FHMS.
11	1	RIM EXIT: VON DUPRIN 98/99L X CYC X TRIM W/ 499 STRIKE PLATE	AS PER MANUFACTURER'S CATALOG	RIM EXIT ATTACHED TO DOOR W/(4) 1/4-20x1" MS. (2) STRIKE PLATES EA. MULLION
12	1	MORTISE LOCK: SCHLAGE-L9000 SERIES W/ DEAD BOLT	AS PER MANUFACTURER'S CATALOG	MORTISE LOCK ATTACHED W/(2) #12-24x1/2" SREWS.
13	1	CYLINDRICAL LOCK: - SCHLAGE D SERIES	AS PER MANUFACTURER'S CATALOG	ATTACHED TO STRIKE PLATE W/(2) 12-24x1/2" SCREWS.
14	1	DEAD BOLT: - SCHLAGE B SERIES	AS PER MANUFACTURER'S CATALOG	ATTACHED TO STRIKE PLATE W/(2) 8-32x1/2" SCREWS
15	1	VON DUPRIN #9954 REMOVABLE MULLION	0.125" THICK A 500 GRADE B STEEL.	SECURED TO 499 STRIKE PLATE WITH (8) 5/16"-18x1"(MIN.) MACHINE SCREWS.
15A	1	WEATHER STRIP (NATIONAL GUARD PRODUCTS #120NA)	NEOPRENE	SECURED WITH DOUBLE ROW OF #6x1/2" SMS SCREWS @ 1" FROM EACH END AND 4" O.C. (AS PREDRILLED BY MANUFACTURER)
16	1	THRESHOLD (NATIONAL GUARD PRODUCTS #950NA)	EXTRUDED ALUMINUM (6063-T5 ALLOY)	5" X 0.500" X 0.080" THICK, ATTACHED TO SLAB W/ 3/16"x 1 3/4" F. H. TAPCON ANCHORS W/ 1 1/4" MIN. EMBEDMENT LOCATED @ 2 3/4" FROM EACH END AND 10" O. C.
17	1	4 1/2" HINGE BAR REINFORCING FOR DOOR	GALVANNEAL STEEL OR STAINLESS STEEL*	1.25" X 10" X 0.134" MIN. THICK
18	1	DOOR SURFACE BOLT REINFORCING	GALVANNEAL STEEL OR STAINLESS STEEL*	14 GAGE (.074") X 1.687" X 3.500" X 9.000" LONG.
19	AS REQ'D	3/8" LEXAN VISION LITE	AS PER MANUFACTURER (DAYBAR INDUSTRIES, LTD)	SEE SHEET 8 FOR DETAILS & COMPONENTS
19A	AS REQ'D	1/2" LEXAN VLF-EZ-IG VISION LITE	AS PER MANUFACTURER (AIR LOUVERS, INC.)	SEE SHEET 8 FOR DETAILS & COMPONENTS
20	1	0.75" THICK EXPANDED POLYSTYRENE DOOR CORE OR 3/4" CELL PAPER HONEYCOMB.	0.75" THICK DOOR CORE: EXPANDED POLYSTYRENE SOLID SLAB RIGID BOARD TYPE 1. PCF CONFORMING TO ASTM C578 BY DYPLAST PRODUCTS LLC, OR 3/4" CELL PAPER HONEYCOMB.	BONDED TO FACE SHEET WITH CONTACT ADHESIVE HELMIBOND # 8320-1 APPLICATION RATE OF 7 GRAMS PER SQUARE FOOT ON ALL CORES
21	4	8" LONG # 275 D HAGER SURFACE BOLT	STEEL W/ US26D FINISH	ENGAGED TO THE DOOR AT TOP AND BOTTOM TO HEADER & THRESHOLD RESPECTIVELY & FASTENED TO DOOR W/ (4) #10-24 X 1 1/2" THRU BOLT EACH CONNECTION.
22	AS REQ'D	TAPCON ANCHORS	STEEL	3/16" X 1 3/4"
23	1	MORTISE LOCK AND RIM PANIC DEVICE REINFORCEMENT	0.074" MIN. THICK GALVANNEAL STEEL OR STAINLESS STEEL*	SEE SHEET 15 FOR SUBCONJUNTS
24	1	#161 CYLINDRICAL LOCK AND DEAD BOLT REINFORCEMENT	SATIN COAT STEEL OR STAINLESS STEEL*	SEE SHEET 16 FOR DETAILS
25	1	DOOR SURFACE CLOSER REINFORCEMENT	0.074" MIN. THICK GALVANNEAL STEEL OR STAINLESS STEEL*	14 GAGE (.074" MIN.) X 3 1/2" X 1.6875 X 16.250" LONG.
26	1	DOOR TOP/ BOTTOM END CHANNEL	16 GAGE GALVANNEAL STEEL OR STAINLESS STEEL*	16 GAGE (.057" MIN.) X 1.8125" X 1.4375.
27	1	"Z" ASTRAGAL	0.075" MIN. THICK A 500 GRADE B GALVANNEAL STEEL OR STAINLESS STEEL*	0.075" MIN. THICK X 2.00" X (2)0.625" X 84" LONG.
28	1	DOOR SNAP IN TOP CAP	20 GAGE GALVANNEAL STEEL ASTM A-653, A-60 OR STAINLESS STEEL*	SEE SHEET 14 FOR SIZES
29	AS REQ'D	CAULKING: GE SILICONE II	N/A	
30	AS REQ'D	995 DOW CORNING STRUCTURAL SILICONE	N/A	

\* AISI 304 SERIES STAINLESS STEEL WITH Fy =45.75 Ksi AND Fu= 101.38 Ksi



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DOUBLE & SINGLE SERIES LS18 OUTSWING COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR W/ SERIES "AS" 16 GAGE GALVANNEAL OR STAINLESS STEEL FRAME FLUSH, EMBOSSSED & GLAZED ASSEMBLIES - L.M.

**DAYBAR INDUSTRIES LTD**

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

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DATE: 03/27/15  
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SHEET 19 OF 19