

GENERAL NOTES AND SPECIFICATIONS:

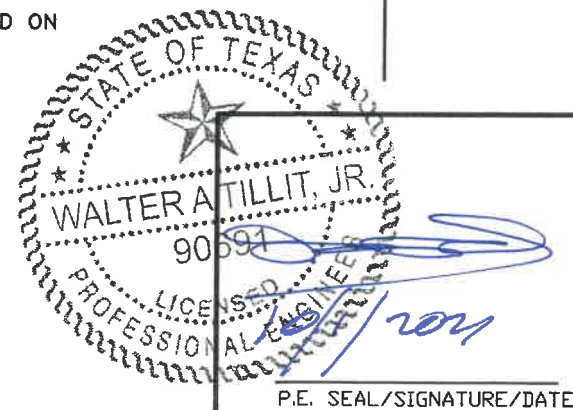
1. OUTSWING SERIES LS 18GA SKIN FLUSH COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/ SERIES "AS" 16GA FRAME, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE, (I.B.C).
 DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE INTERNATIONAL BUILDING CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE PRODUCT WILL BE INSTALLED, AND FOR A DIRECTIONALITY FACTOR Kd = 0.85, IN ACCORDANCE WITH ASCE 7-16 STANDARD, AND SHALL NOT EXCEED THE DESIGN PRESSURE RATING INDICATED ON SHEETS 2, 3 & 3A.
 IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.
 THIS DOOR'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.2 OF THE ABOVE MENTIONED CODE AS PER FLORIDA HIGH VELOCITY HURRICANE ZONE PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER FENESTRATION TESTING LABORATORY, INC. REPORT # 9690 (REVISED ON 3/5/18) AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1604 OF THE ABOVE MENTIONED BUILDING CODE.
2. ALL COMPONENTS SHALL BE AS SPECIFIED ON APPLICABLE DETAIL SHEETS AND AT BILL OF MATERIALS (SHEET 6) OF THIS DRAWING.
3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF THESE DOORS PER THE ABOVE MENTIONED BUILDING CODE TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.
4. ALL SCREWS INSTALLED TO BE STAINLESS STEEL 304 OR 316 AISI SERIES AND MEET ASTM A167, OR HOT DIPPED GALVANIZED (AFTER FABRICATION) CARBON STEEL AS PER ASTM A 123 OR ASTM A153, OR HOT DIPPED GALVANIZED OR GALVANNEALED (PRIOR TO FABRICATION) AND MEET ASTM A653 WITH 50 ksi YIELD STRENGTH AND 90 hsl TENSILE STRENGTH. BOLTS TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL, WITH 35 KSI MINIMUM YIELD STRENGTH.
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 ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE ALUMINUM DESIGN MANUAL 2015 EDITION.
7. ALL EXISTING WALLS (STRUCTURE) WHERE DOOR IS TO BE INSTALLED MUST BE BUILT IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND SHALL BE DESIGNED TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THE DOOR SYSTEM.
8. ALL ANCHORS FOR DOOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEETS 2 & 2A OF THIS DRAWING. MAXIMUM ANCHOR SPACING SHALL BE AS PER ELEVATIONS ON SHEETS 2 & 2A OF THIS DRAWING.
9. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEETS 8, 8A, 9 & 9A.
10. **THIS DOOR WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.** DOOR MEETS IMPACT RESISTANCE FOR TYPE "D" MISSILE FOR BASIC PROTECTION.
11. 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 SHEET 2.
12. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME & THRESHOLD COMPONENTS INDICATED ON THIS DRAWING.

13. (a) THIS 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 P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
 - (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT WHICH 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 AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
14. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH TEXAS DEPARTMENT OF INSURANCE REQUIREMENTS. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

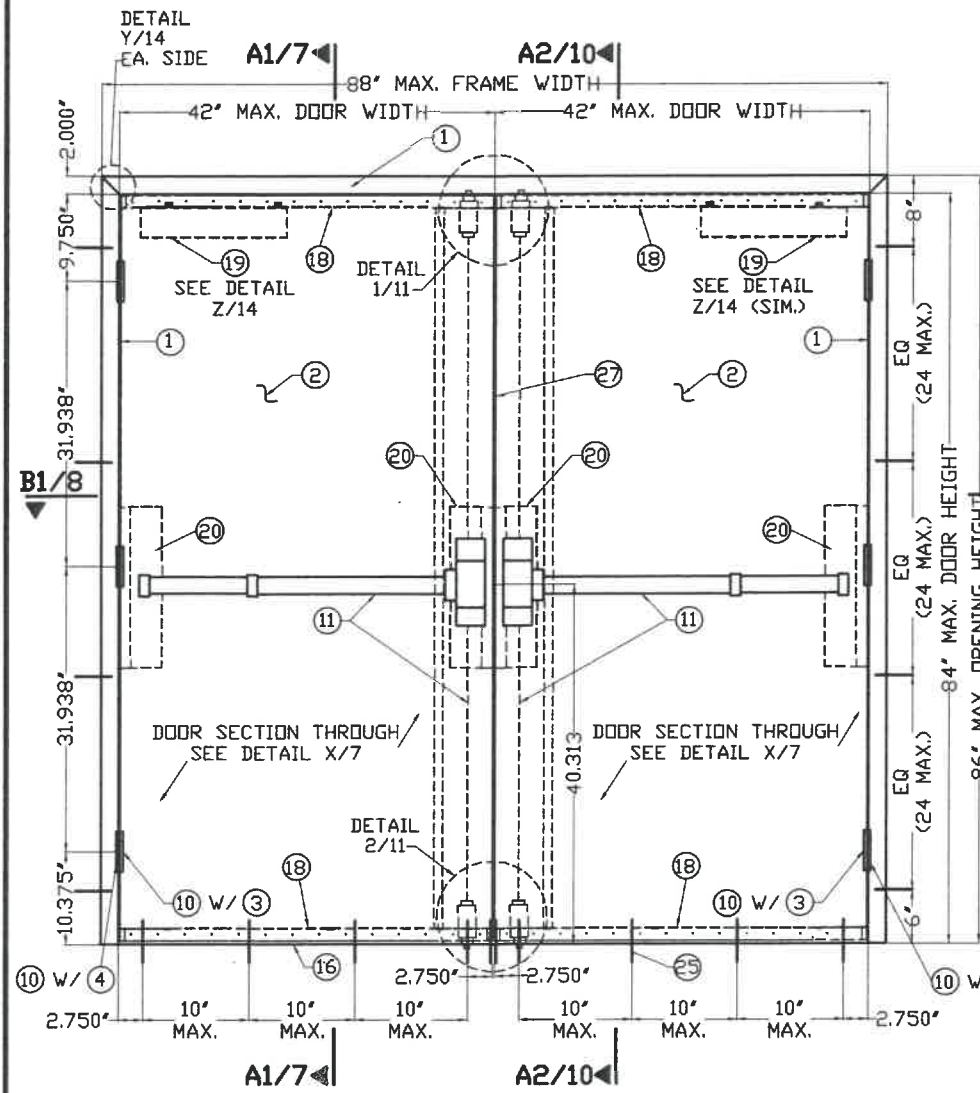
SHEETS CONTENT:

SHEET #1	INDEX, COVER SHEET & GENERAL NOTES.
SHEETS #2&2A	ASSEMBLY ELEVATIONS (DOUBLE & SINGLE DOORS RESPECTIVELY).
SHEET #2B	OPTIONAL EMBOSSED DOOR ELEVATIONS.
SHEET #3-5	COMPONENTS.
SHEET #6	BILL OF MATERIALS.
SHEET #7	VERTICAL SECTION AT DOOR PANEL FRAME & DOOR PANEL CONSTRUCTION
SHEETS #8,8A,9,9A	HORIZONTAL SECTIONS (DOUBLE & SINGLE DOORS RESPECTIVELY).
SHEET #10-11	VERTICAL SECTION & DETAILS 1 & 2 AT HARDWARE.
SHEETS #12	DETAILS 3 & 4 AT HARDWARE.
SHEET #13	DETAIL OF Z ASTRAGAL.
SHEET #14	CORNER DETAILS.

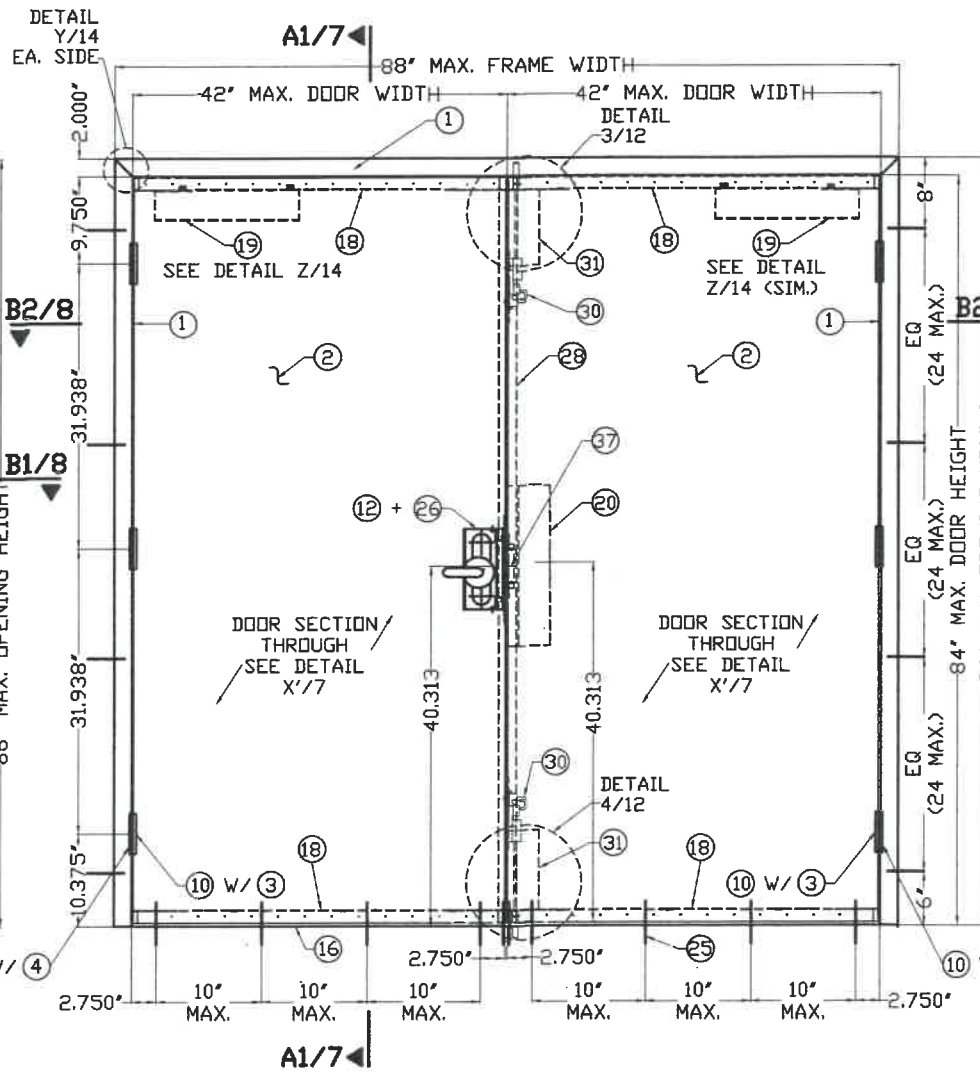
THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS UNDER THE TEXAS DEPARTMENT OF INSURANCE JURISDICTION


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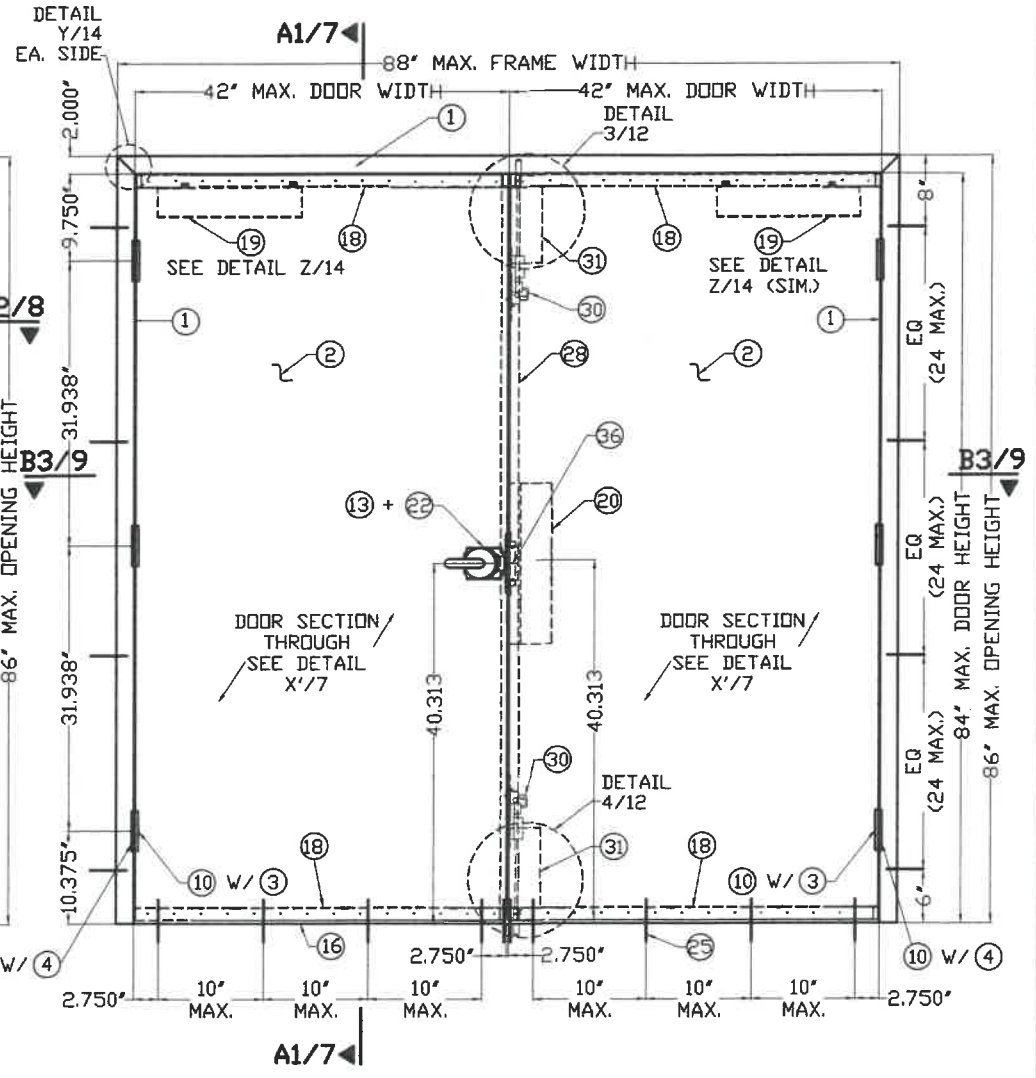
TEXAS DEPARTMENT OF INSURANCE - 2018					
WALTER A. TILLIT Jr P.E. PROFESSIONAL ENGINEER 6355 N.W 36 STREET, STE. 305 VIRGINIA GARDENS, FL 33166 PHONE(305) 871-1530 FAX (305) 871-1531 TEXAS LIC. # 90691 FIRM REGISTRATION # F-13790			OUTSWING SERIES LS 18GA SKIN FLUSH COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/ SERIES "AS" 16GA FRAME DAYBAR INDUSTRIES LTD. 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204		M.P. DRAWN BY: 10/1/2021 DATE: 21-130 DRAWING No.
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-061	10/1/21	3	-	-
2	-	-	4	-	-
					SHEET 1 OF 14



EXTERIOR ELEVATION (OUTSWING) DOUBLE DOOR
VON DUPRIN #9847F CONCEALED VERTICAL ROD EXIT DEVICE
HONEYCOMB CORE
HOLLOW CONCRETE BLOCK @ LEFT & RIGHT W/ (C) AT JAMBS



EXTERIOR ELEVATION (OUTSWING) DOUBLE DOOR
MORTISED DEVICE W/O DEAD BOLT @ ACTIVE & FLUSHBOLT @ INACTIVE
HONEYCOMB CORE
GROUT CONCRETE BLOCK @ LEFT & RIGHT W/ (B) + (A) AT JAMBS



EXTERIOR ELEVATION (OUTSWING) DOUBLE DOOR
CYLINDRICAL LOCK @ ACTIVE & FLUSHBOLT @ INACTIVE
HONEYCOMB CORE
HOLLOW CONCRETE BLOCK @ LEFT W/ (C) + GROUT CONCRETE BLOCK @ RIGHT W/ (B) + (A) AT JAMBS

DESIGN LOAD:
+70.0 psf, -70.0 psf

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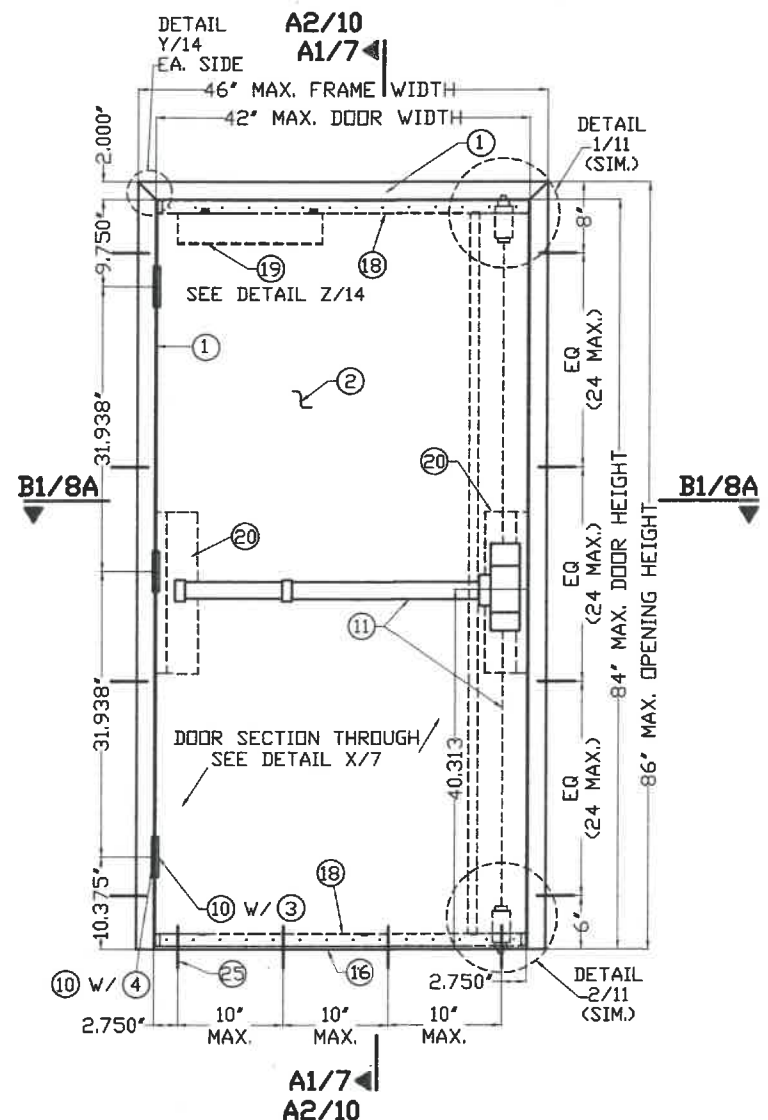
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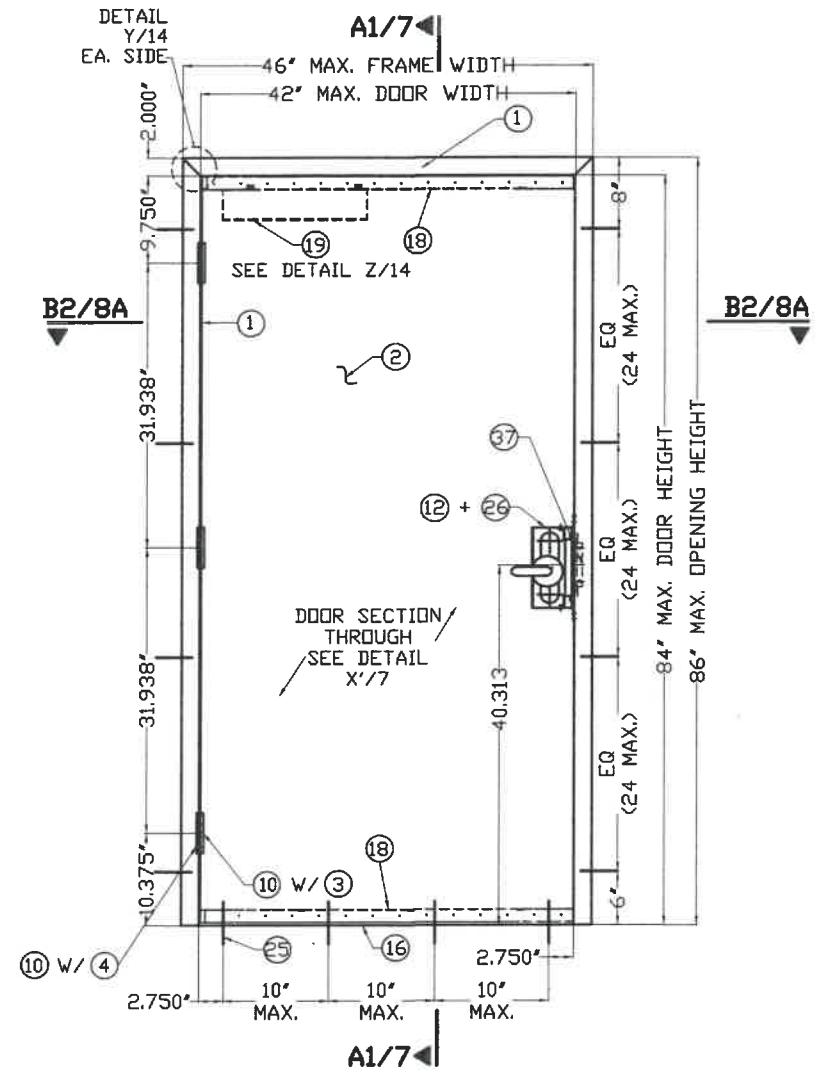
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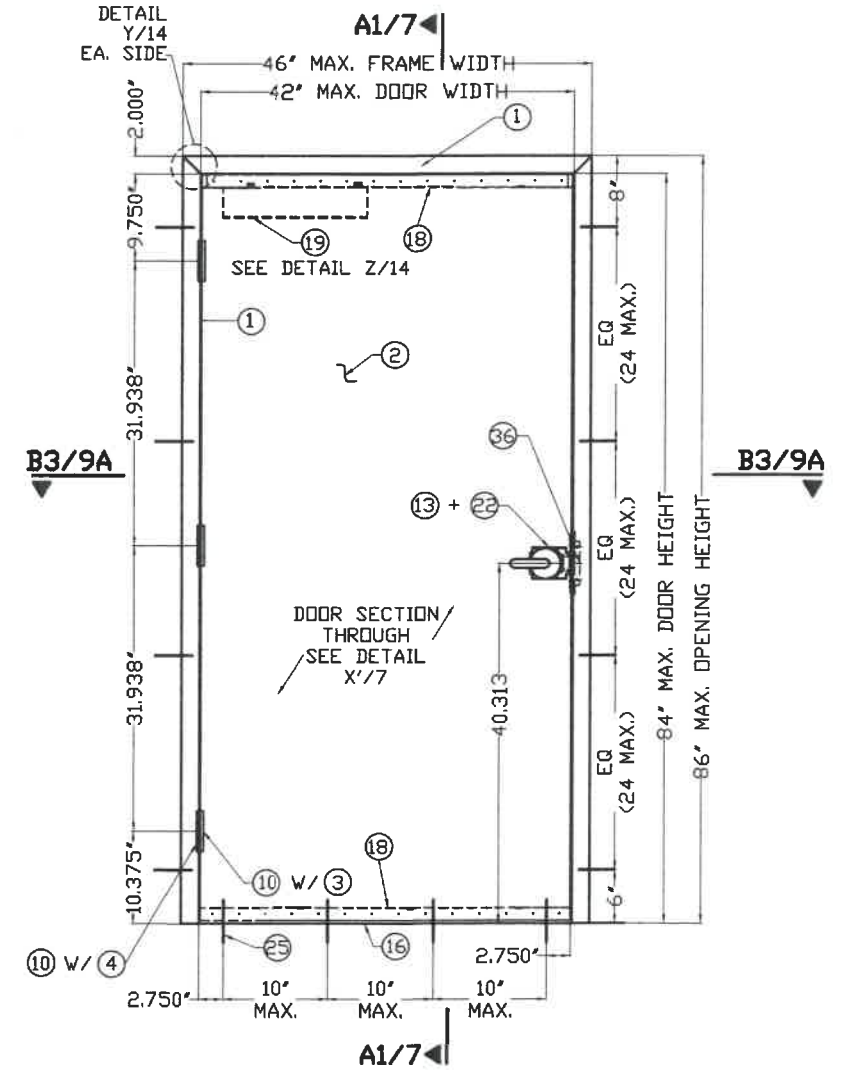
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EXTERIOR ELEVATION (OUTSWING) SINGLE DOOR
VON DUPRIN #9847F CONCEALED VERTICAL ROD EXIT DEVICE
HONEYCOMB CORE
HOLLOW CONCRETE BLOCK @ LEFT & RIGHT W/ (6) AT JAMBS



EXTERIOR ELEVATION (OUTSWING) SINGLE DOOR
MORTISED DEVICE W/O DEAD BOLT
HONEYCOMB CORE
GROUT CONCRETE BLOCK @ LEFT & RIGHT W/ (8) + (8A) AT JAMBS



EXTERIOR ELEVATION (OUTSWING) SINGLE DOOR
CYLINDRICAL LOCK
HONEYCOMB CORE
HOLLOW CONCRETE BLOCK @ LEFT W/ (6) + GROUT CONCRETE BLOCK @
RIGHT W/ (8) + (8A) AT JAMBS

DESIGN LOAD:
+70.0 psf, -70.0 psf

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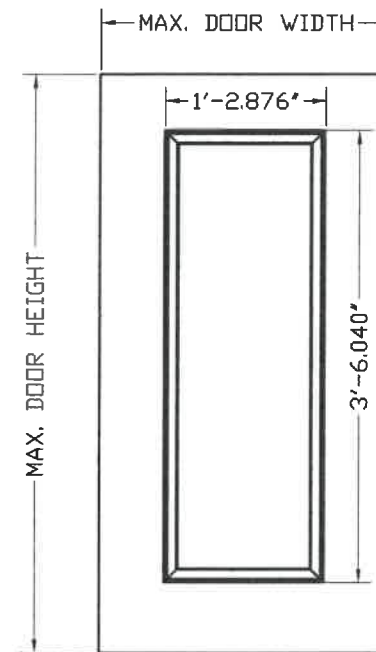
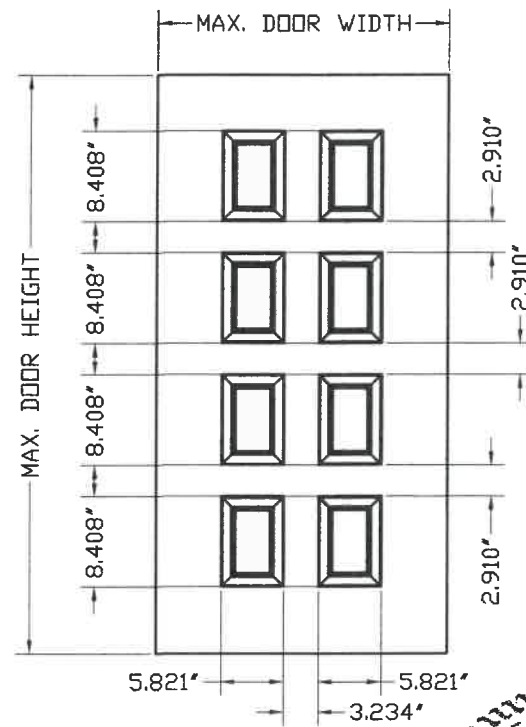
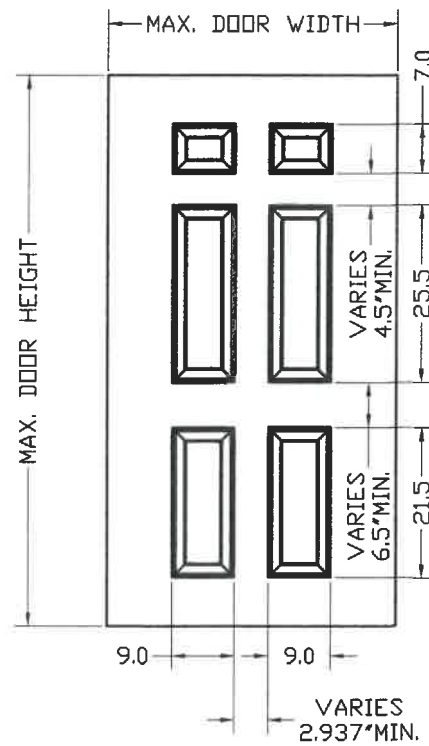
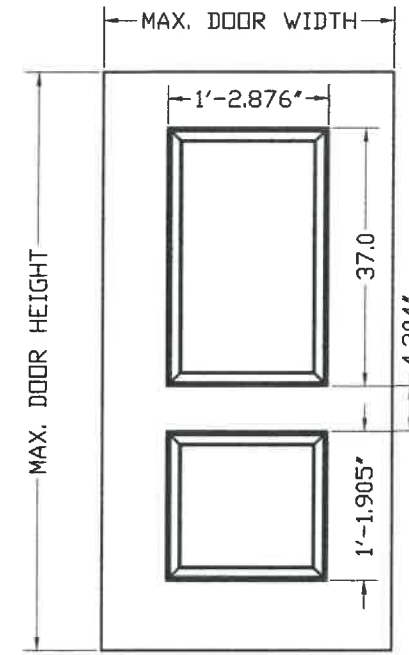
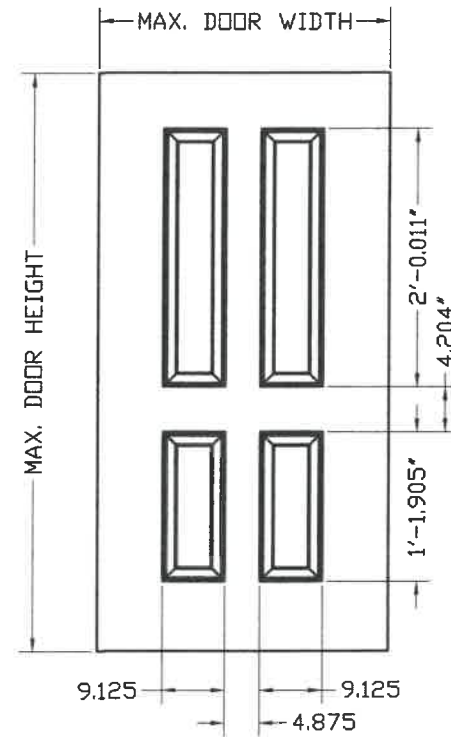
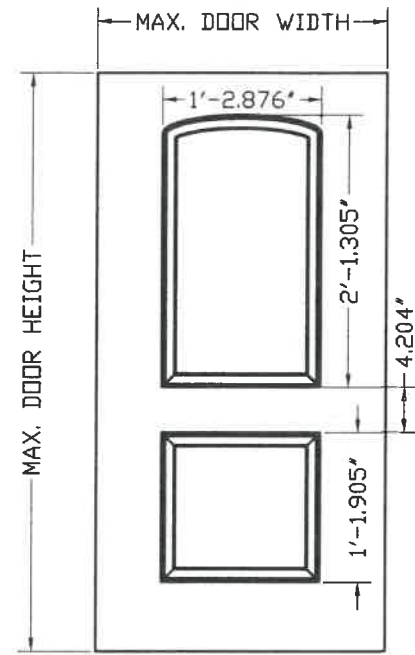
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 SHEET 2A OF 14

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OPTIONAL EMBOSSED DOOR ELEVATIONS



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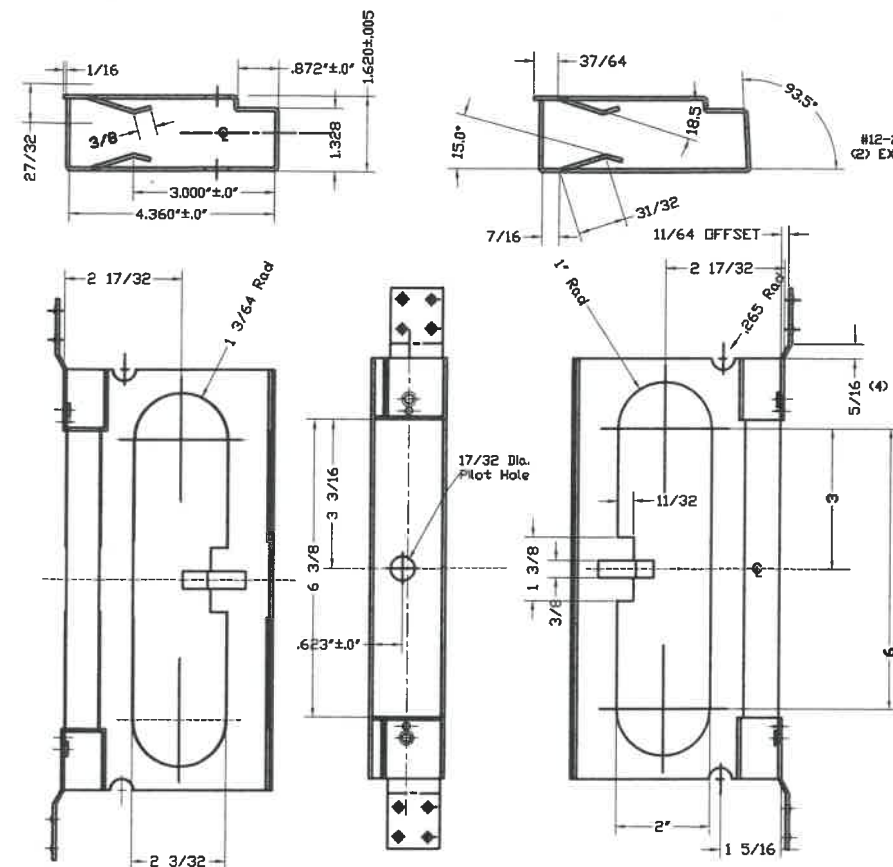
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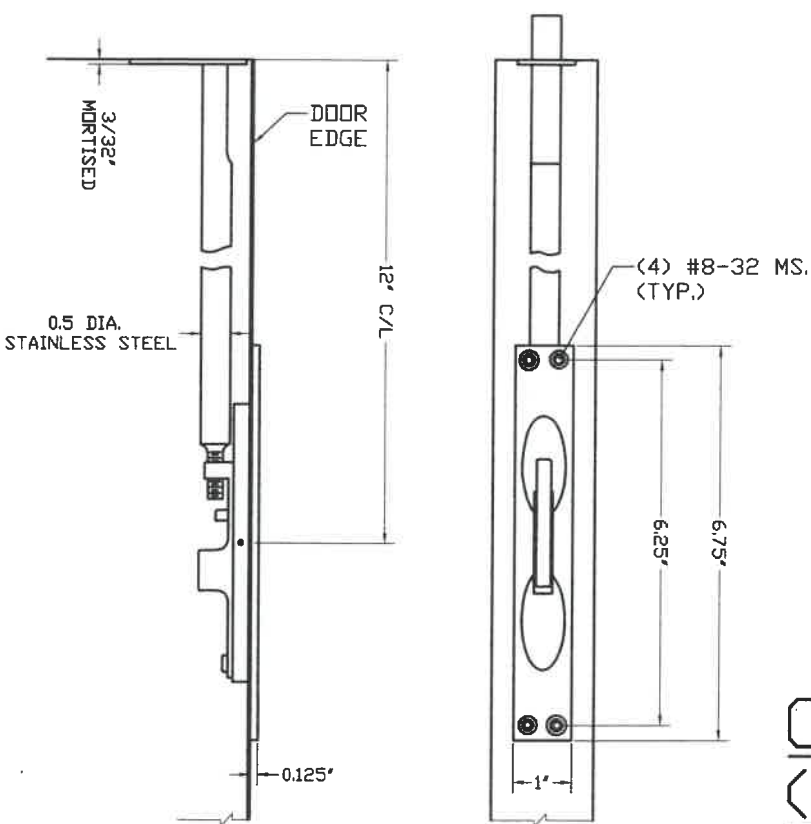
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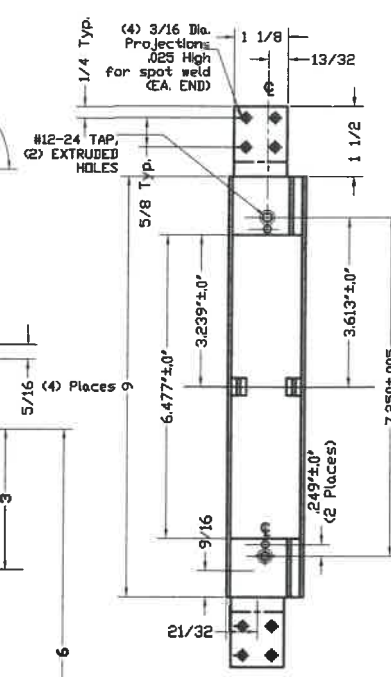
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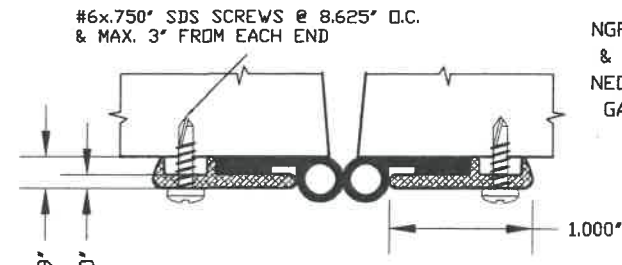
26 ANSI #A115.1 #86 MORTISE LOCK REINFORCEMENT
 MATERIAL: 14GA. (.072) ELECTRO ZINC COATED STEEL



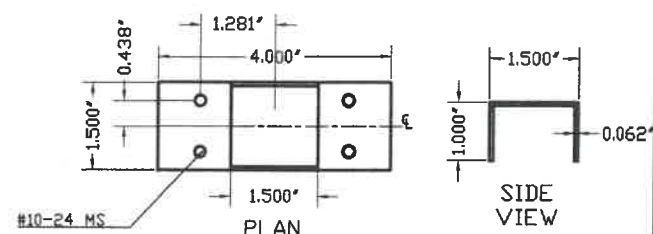
30 FLUSHBOLT ROCKWOOD 556 WS



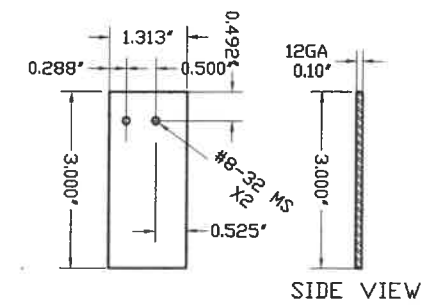
27 SPLIT ASTRAGAL
 W/ NEOPRENE BULB



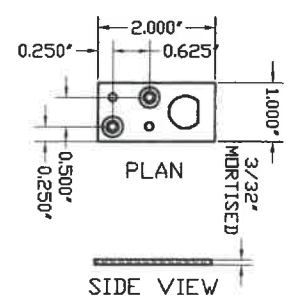
28 Z ASTRAGAL
 2 PCS.
 SEE SHEET 13



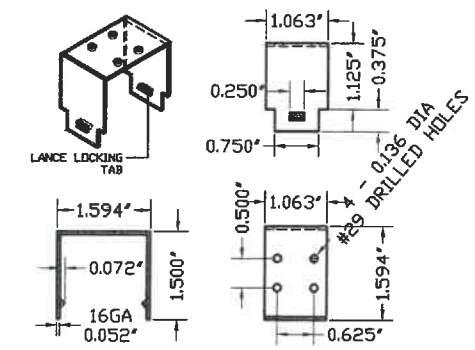
29 CVR MOUNTING TAB
 14 GAGE, GALVANNEAL



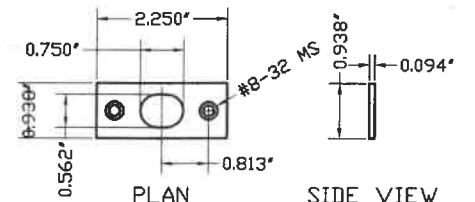
31 FLUSHBOLT TAB REINFORCEMENT
 12 GAGE



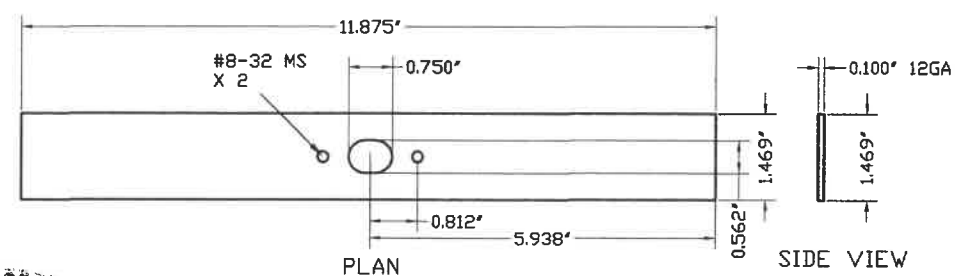
32 GUIDE FOR 33



33 REVERSIBLE FLUSH BOLT REINFORCING GUIDE PLATE
 TOP & BOTTOM



34 FLUSHBOLT STRIKE PLATE
 TOP & BOTTOM



35 FLAT FLUSHBOLT REINFORCING FOR STRIKE 34

COMPONENT
 (CONTINUED)

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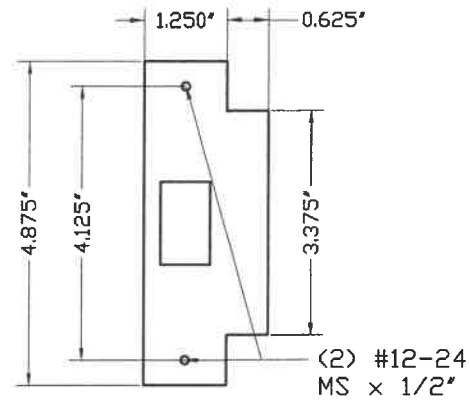
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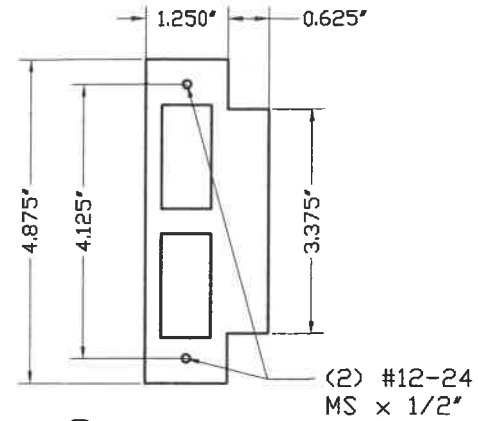
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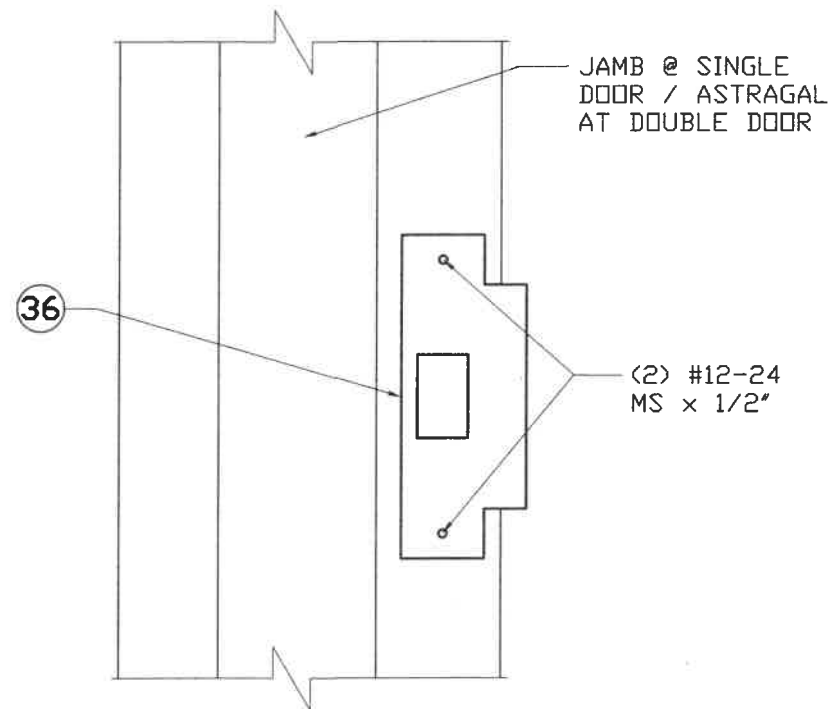
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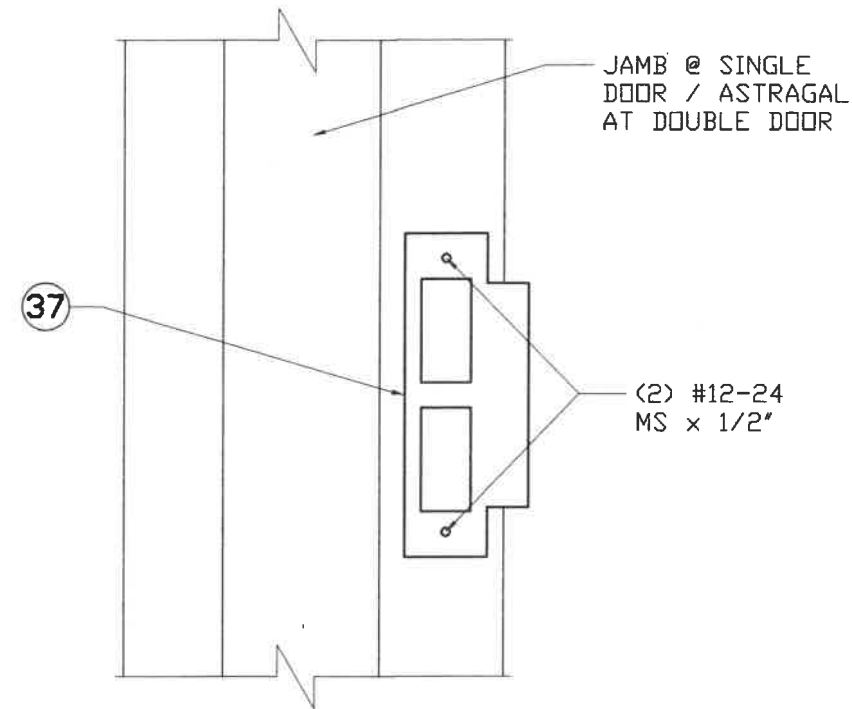
36 STRIKE FOR CYLINDRICAL LOCK 13
 MATERIAL: (0.095) Steel, Nickel Finish



37 STRIKE FOR MORTISE LOCK 12
 MATERIAL: (0.095) Steel, Nickel Finish



STRIKE DETAIL ELEVATION
 Latch & Deadbolt



STRIKE DETAIL ELEVATION
 Mortised Device Latch

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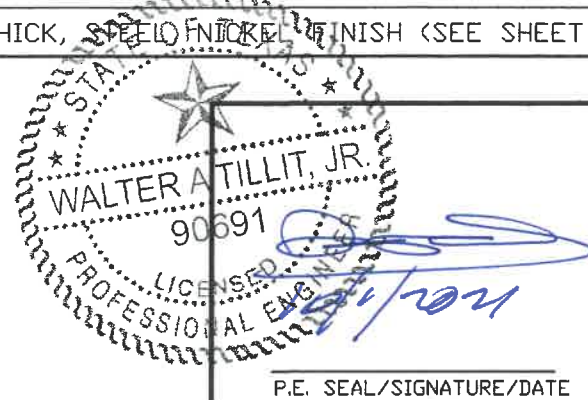
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SHEET 5A OF 14

BILL OF MATERIALS OUTSWING DOOR:

ITEM	DESCRIPTION	BASIC DIMENSIONS, MATERIAL OR ADDITIONAL DETAILS
①	16 GAUGE WELDED FRAME	AS 5 3/4" JAMB DEPTH X 2" FACE X .051" MIN. GALVANNEAL (Fu=53Ksi, Fy=42Ksi)
②	18 GAUGE FLUSH DOOR COMMERCIAL STEEL	1 3/4" THICK X (.041 MIN) GALVANNEAL (Fu=52Ksi, Fy=42Ksi); C/W PAPER HONEY COMB
③	HINGE REINFORCINGS (DOOR)	1 1/2" X 10" X 10 GAUGE GALVANNEAL (.134 MIN)
④	HINGE REINFORCINGS (FRAME)	1 1/2" X 8 3/4" X 10 GAUGE GALVANNEAL (.134 MIN)
⑥	WIRE MASONRY FRAME ANCHOR	9 1/2" LONG X 10 GAUGE (.134 MIN) Fu=95.9 Ksi Fy=40.2 Ksi
⑧	EMA ANCHOR BOLTS	3/8" X 5" STEEL UNICAN-SLEEVE ANCHOR, 2 1/4" EMBEDMENT & 3" MIN. E.D.
⑧A	EMA BUTTERFLY ANCHOR (PART #PT1-008)	18 GAUGE (.042") STEEL SATIN COAT
⑩	HINGES-HAGER BB1191, BB1279	MIN. 4" TO 4.5" X 4.5" STANDARD WEIGHT (.134 THICK), STEEL, ATTACHED TO FRAME W/ (4) 12-24 x 1/2" FHMS
⑪	VON DUPRIM #9847F CVR EXIT DEVICE	FASTENED W/ (4)10-24 x 1" PH MS W/ SEX BOLT & (2) 10-24 x 3/4" PH MS W/ SEX BOLT
⑫	MORTISE DEVICE: SCHLAGE L9000 SERIES W/D DEADBOLT	FASTENED W/ (2) 8-32 x 1 1/4" FH MS, FLUSH MOUNT METALLIC STRIKE PLATE FASTENED W/ (2) 12 x 3/4" FH SMS
⑬	CYLINDRICAL LOCK: SCHLAGE D SERIES	FASTENED W/ (2) 10-32 x 2 3/8" PH MS, FLUSH MOUNT METALLIC STRIKE PLATE FASTENED W/ (2) 12 x 3/4" FH SMS
⑮	WEATHER STRIP: NATIONAL GUARD PRODUCTS #120NA	SECURED WITH DOUBLE ROW OF #6 X 1/2" SMS SCREWS @ 1" FROM EA. END & BALANCE @ 4" O.C.
⑯	THRESHOLD: NATIONAL GUARD PRODUCTS #950NA	EXTRUDED ALUMINUM 6063-T6, 0.078" THK. W/ NEOPRENE BULB
⑰	CAULKING: GE SILICONE II	N/A
⑱	DOOR END CHANNEL REINFORCEMENT	16 GAGE GALVANNEAL STEEL
⑲	DOOR SURFACE CLOSER REINFORCEMENT	14 GAGE (.072" MIN.) x 3 1/2" x 1.6875 x 16.250" LONG. GALVANNEAL.
⑳	RP REINFORCING	14 GAGE (.072" MIN.) GALVANNEAL
㉒	#161 LOCK EDGE REINFORCING	16 GAGE (.051" MIN.)
㉕	THRESHOLD ANCHOR	1/4"Ø ULTRACONS BY ELCO CONSTRUCTION PRODUCTS , 1 3/4" MIN. EMBEDMENT & 3" MIN. E.D @ f'c=3ksi CONCRETE SILL
㉖	MORTISE LOCK REINFORCEMENT COATED STEEL	ANSI #A115.1 #86, 0.072"MIN.
㉗	SPLIT ASTRAGAL W/ NEOPRENE BULB	ZERO #328
㉘	Z ASTRAGAL W/ NGP NEOPRENE GASKET	12 GAGE (.094" MIN.), 2 PCS.
㉙	CVR MOUNTING TAB	14 GAGE (.072" MIN.), GALVANNEAL
⑳	FLUSHBOLT ROCKWOOD 556 WS	
⑳	FLUSHBOLT TAB REINFORCEMENT	12 GAGE (.094"MIN.), GALVANNEAL
㉓	GUIDE FOR ㉓	GALVANNEAL
㉓	REVERSIBLE FLUSHBOLT REINFORCING GUIDE PLATE	16 GAGE (.051" MIN.)
㉔	FLUSHBOLT STRIKE PLATE	12 GAGE (.094" MIN.)
㉔	FLAT FLUSHBOLT REINFORCING FOR STRIKE ㉔	12 GAGE (.094" MIN.)
㉖	STRIKE FOR CYLINDRICAL LOCK ㉓	0.095" THICK, STEEL, NICKEL FINISH (SEE SHEET 5A FOR SIZES)
㉖	STRIKE FOR MORTISE LOCK ㉓	0.095" THICK, STEEL NICKEL FINISH (SEE SHEET 5A FOR SIZES)



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 90691
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 PROFESSIONAL ENGINEER
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 VIRGINIA GARDENS, FL 33166
 PHONE(305) 871-1530 FAX (305) 871-1531
 TEXAS LIC. # 90691
 FIRM REGISTRATION # F-13790

**OUTSWING SERIES LS 18GA SKIN FLUSH
 COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/
 SERIES "AS" 16GA FRAME**

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

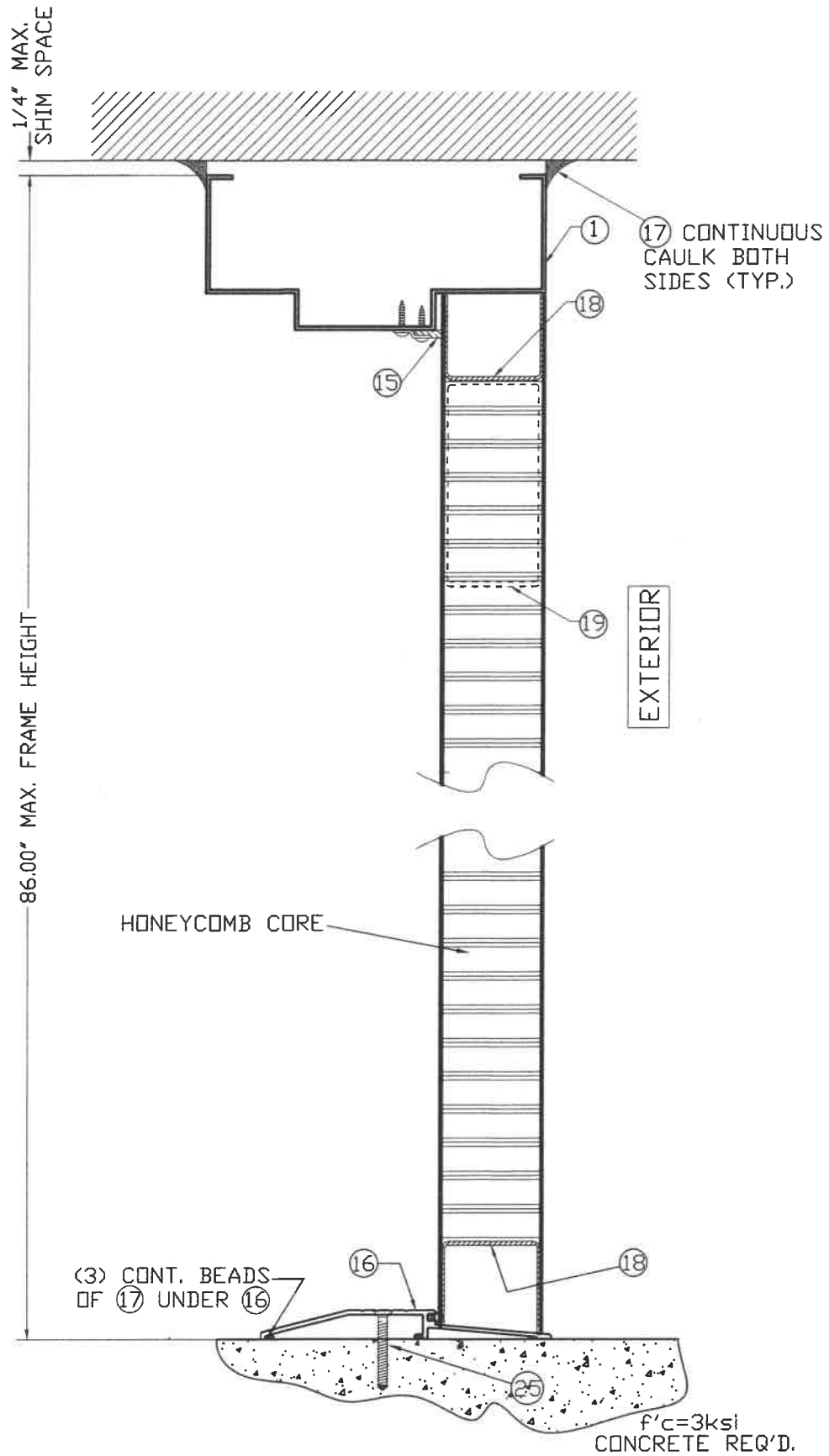
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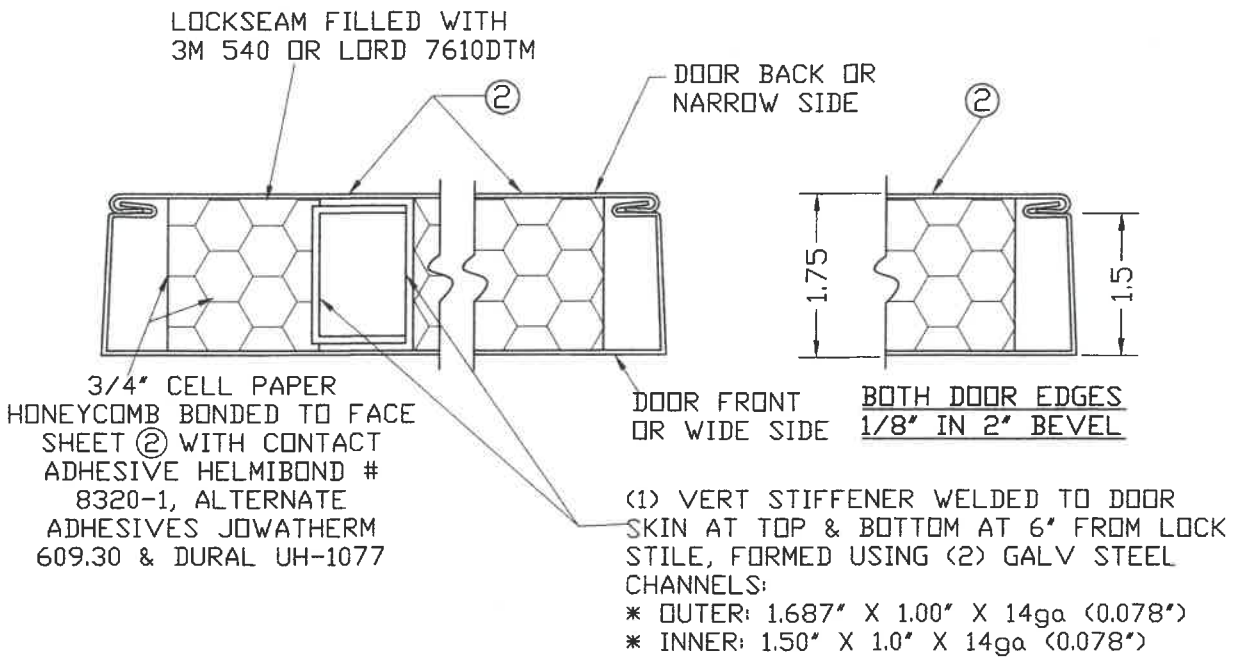
21-130
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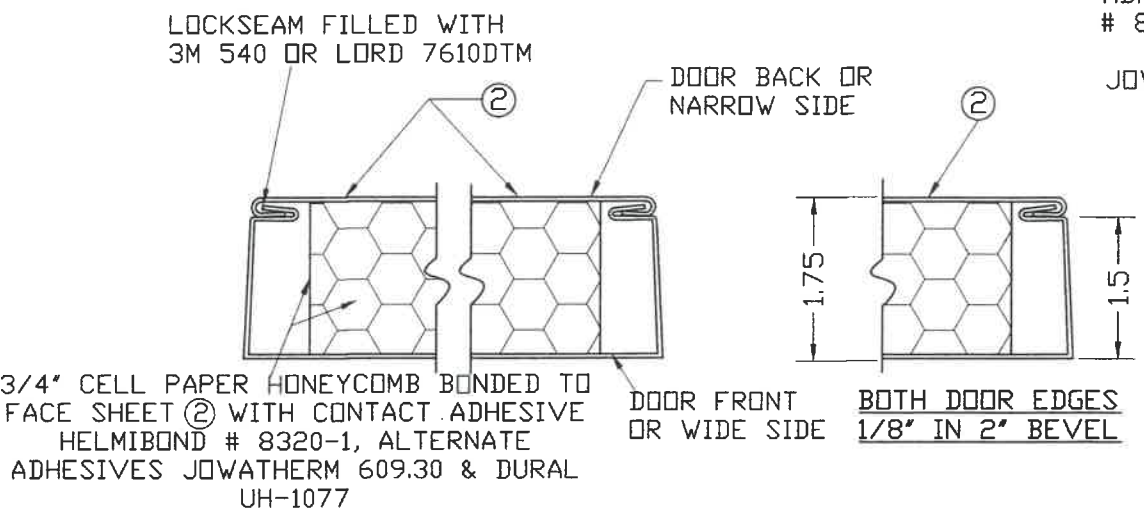
SHEET 6 OF 14



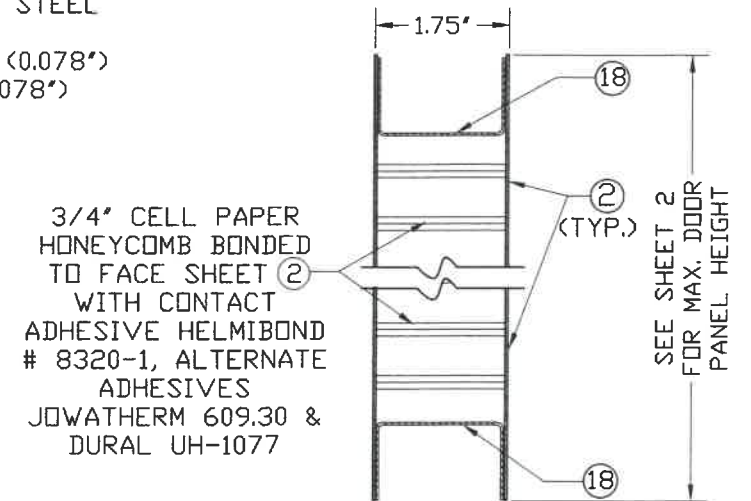
**SECTION A1-A1 AT
DOOR PANEL/FRAME**



**DOOR SECTION THROUGH EDGE SEAM,
DETAIL X**



**DOOR SECTION THROUGH EDGE SEAM,
DETAIL X'**

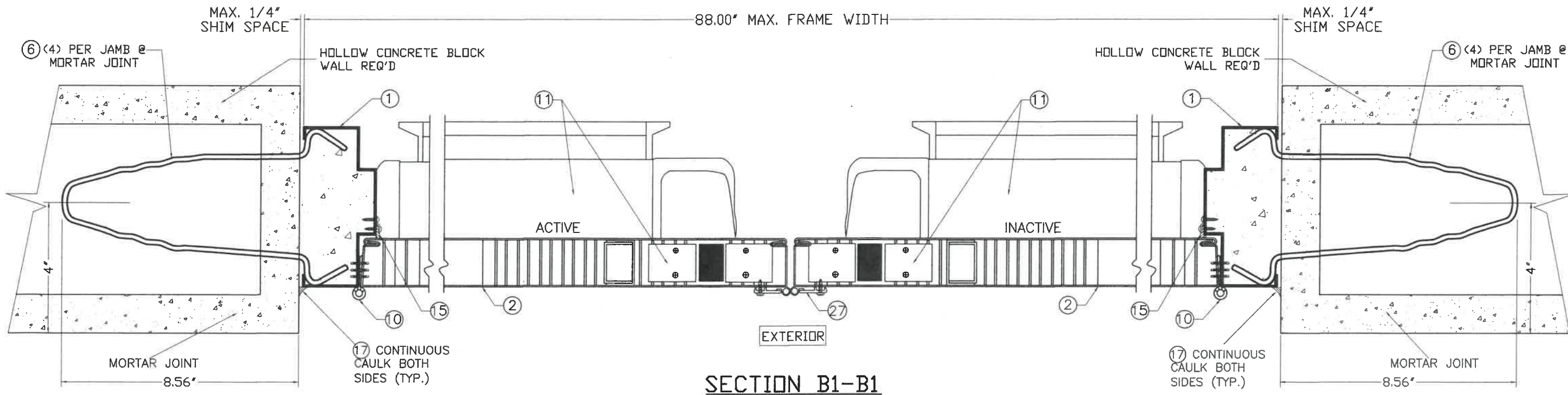


**VERTICAL SECTION AT
DOOR PANEL**

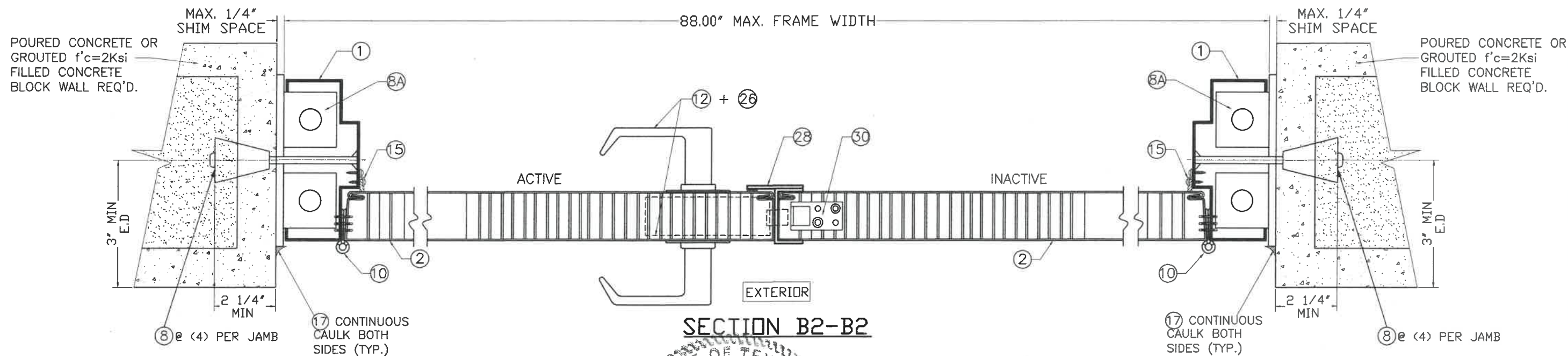
DOOR PANEL CONSTRUCTION



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DAYBAR INDUSTRIES LTD. 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204				M.P. DRAWN BY: 10/1/2021 DATE: 21-130 DRAWING No.	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-061	10/1/21	3	-	-
2	-	-	4	-	-
					SHEET 7 OF 14



SECTION B1-B1



SECTION B2-B2

STATE OF TEXAS
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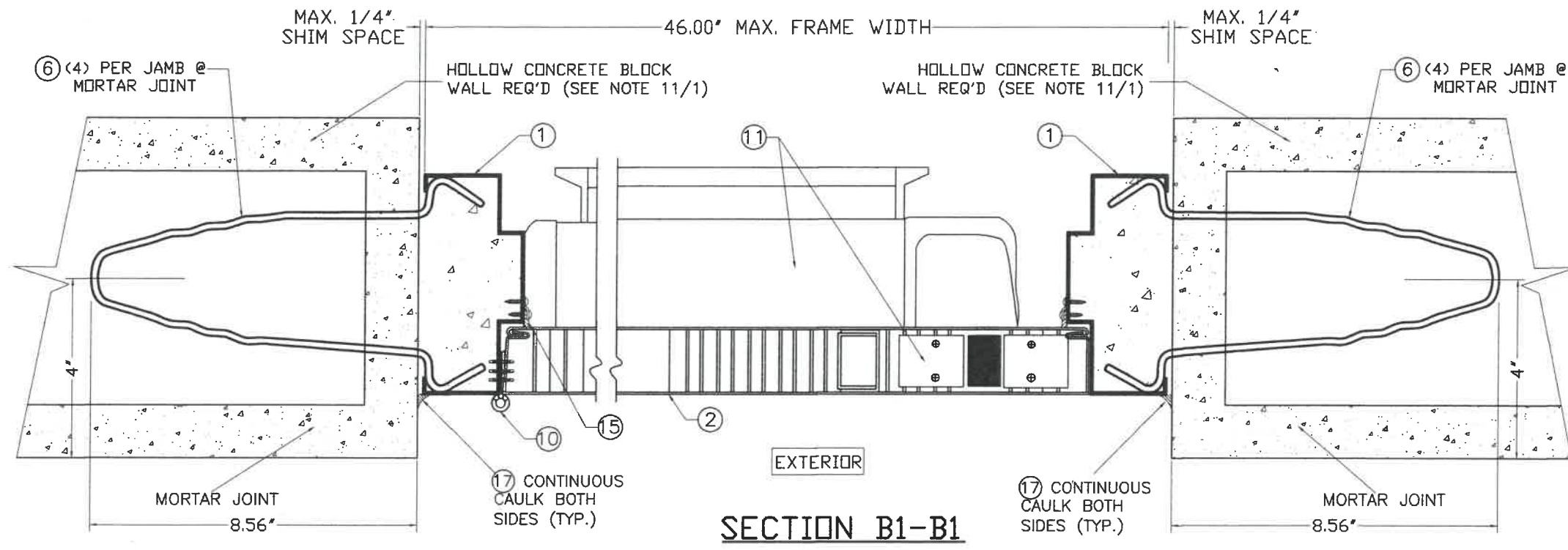
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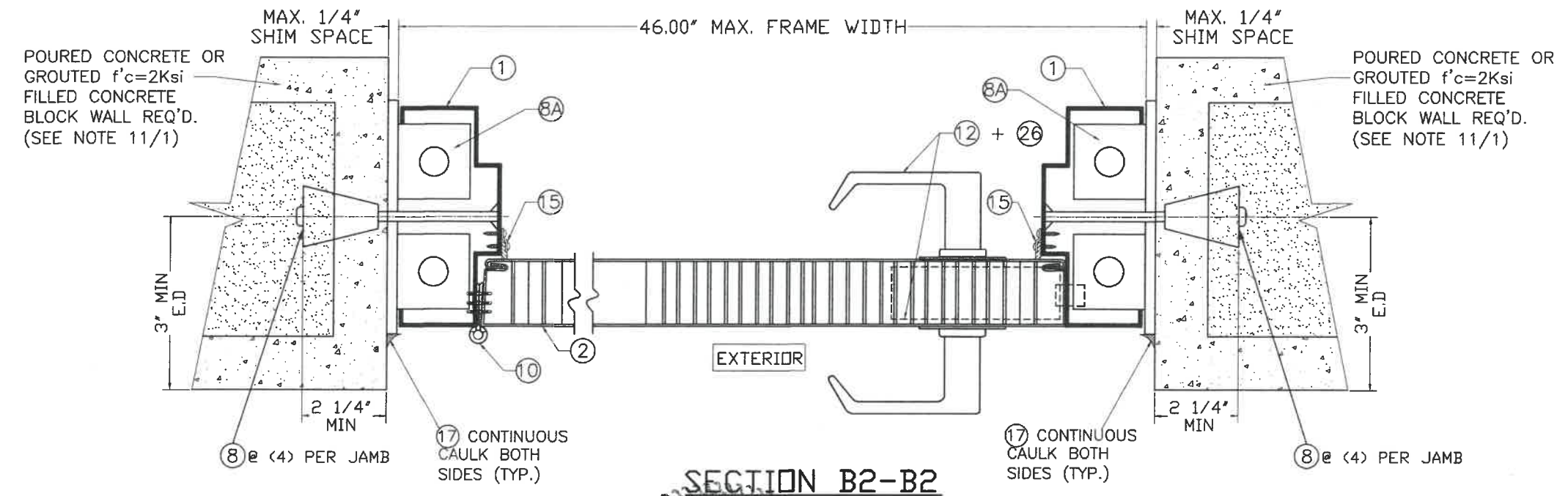
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SHEET 8 OF 14

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2	-	-	4	-	-



SECTION B1-B1



SECTION B2-B2

STATE OF TEXAS
 WALTER A. TILLIT JR.
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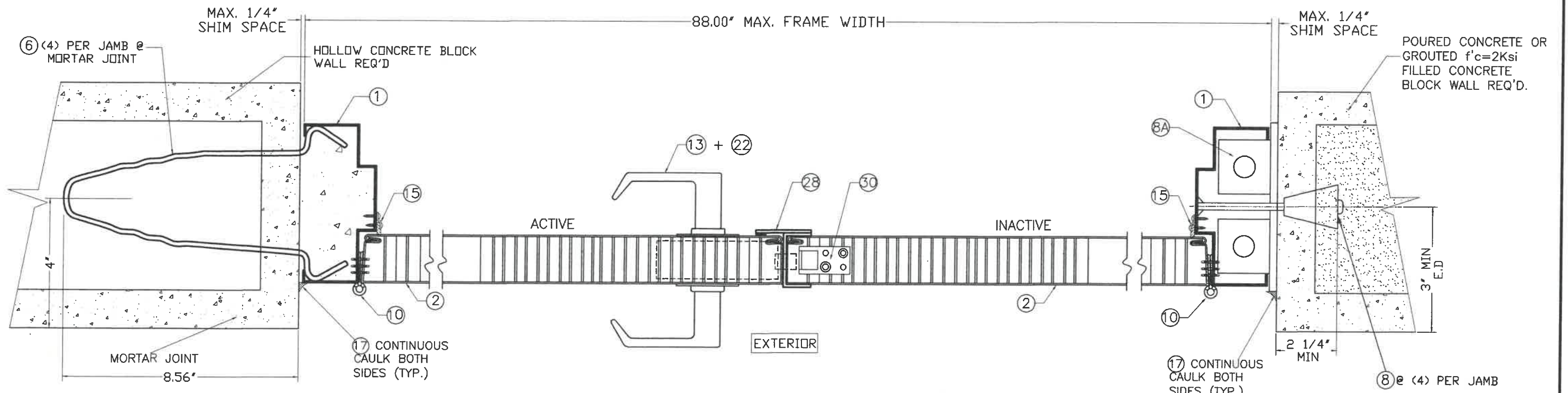
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 SHEET 8A OF 14

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SECTION B3-B3

STATE OF TEXAS
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OUTSWING SERIES LS 180A SKIN FLUSH
 COMMERCIAL DOUBLE & SINGLE STEEL DOOR W/
 SERIES "AS" 160A FRAME

DAYBAR INDUSTRIES LTD.

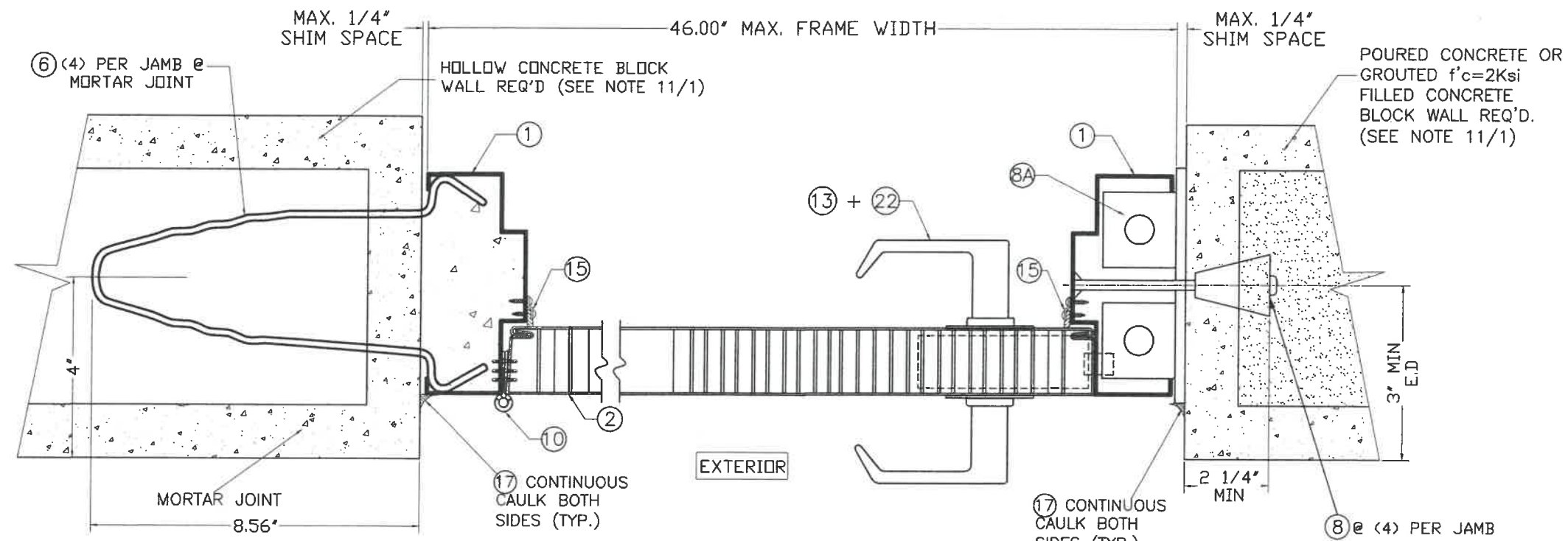
50 WEST DRIVE, BRAMPTON,
 ON CANADA, L6T 2J4
 TEL: 905 625-8000 FAX: 905 625-4204

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SECTION B3-B3

STATE OF TEXAS
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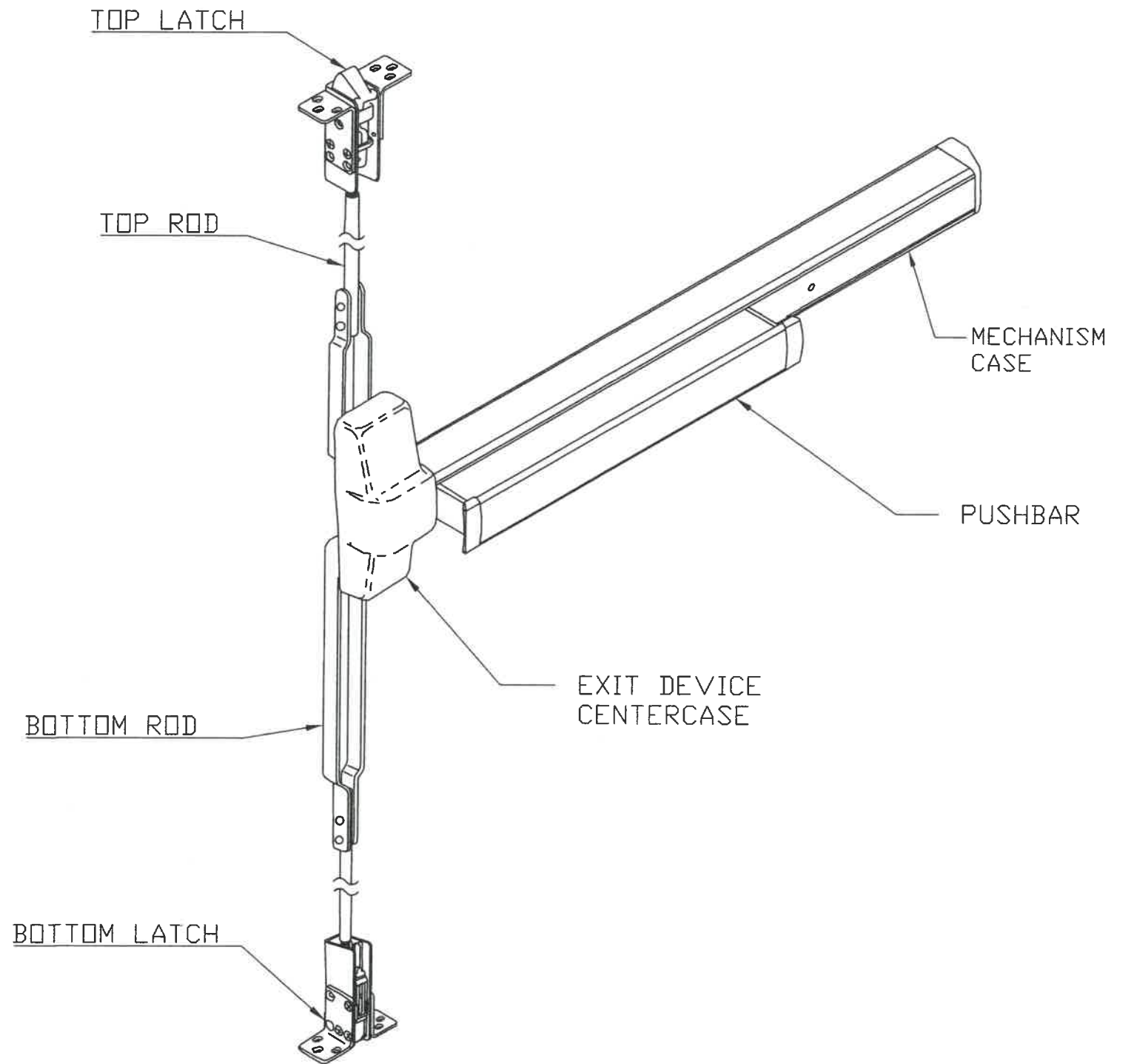
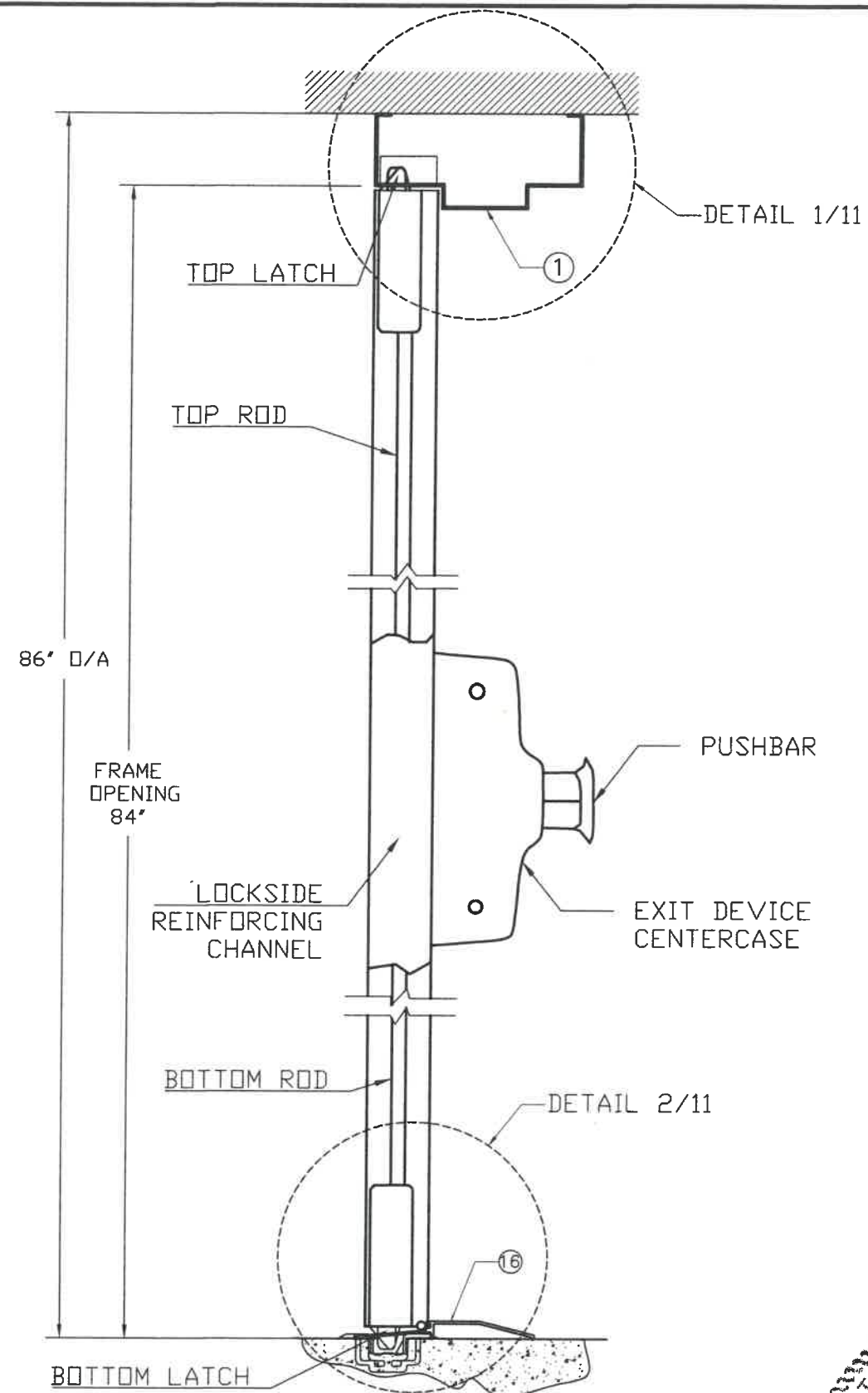
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SHEET 9A OF 14



VON DUPRIN #9847F CVR EXIT DEVICE (11) ISOMETRIC

SECTION A2-A2

STATE OF TEXAS
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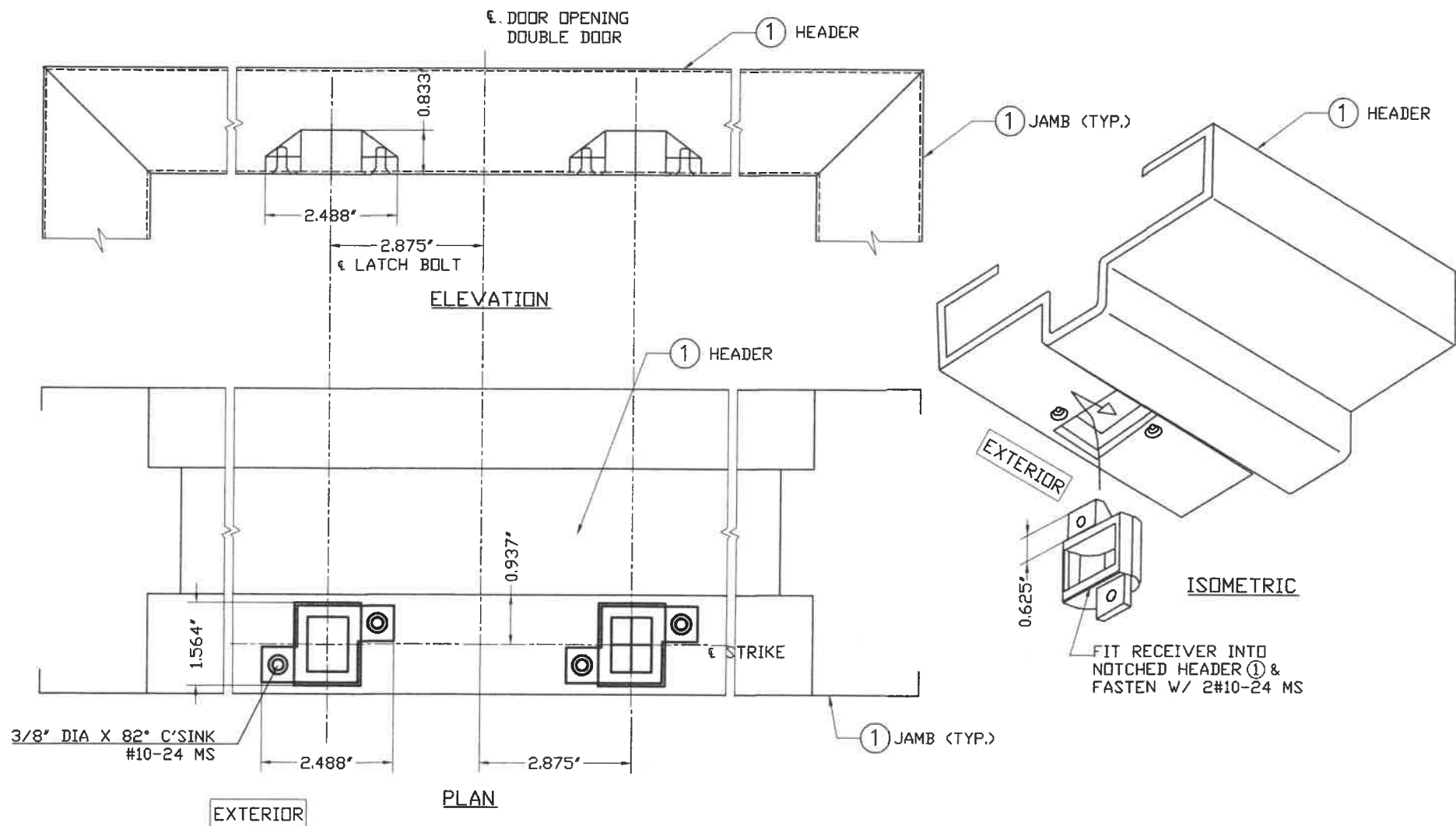
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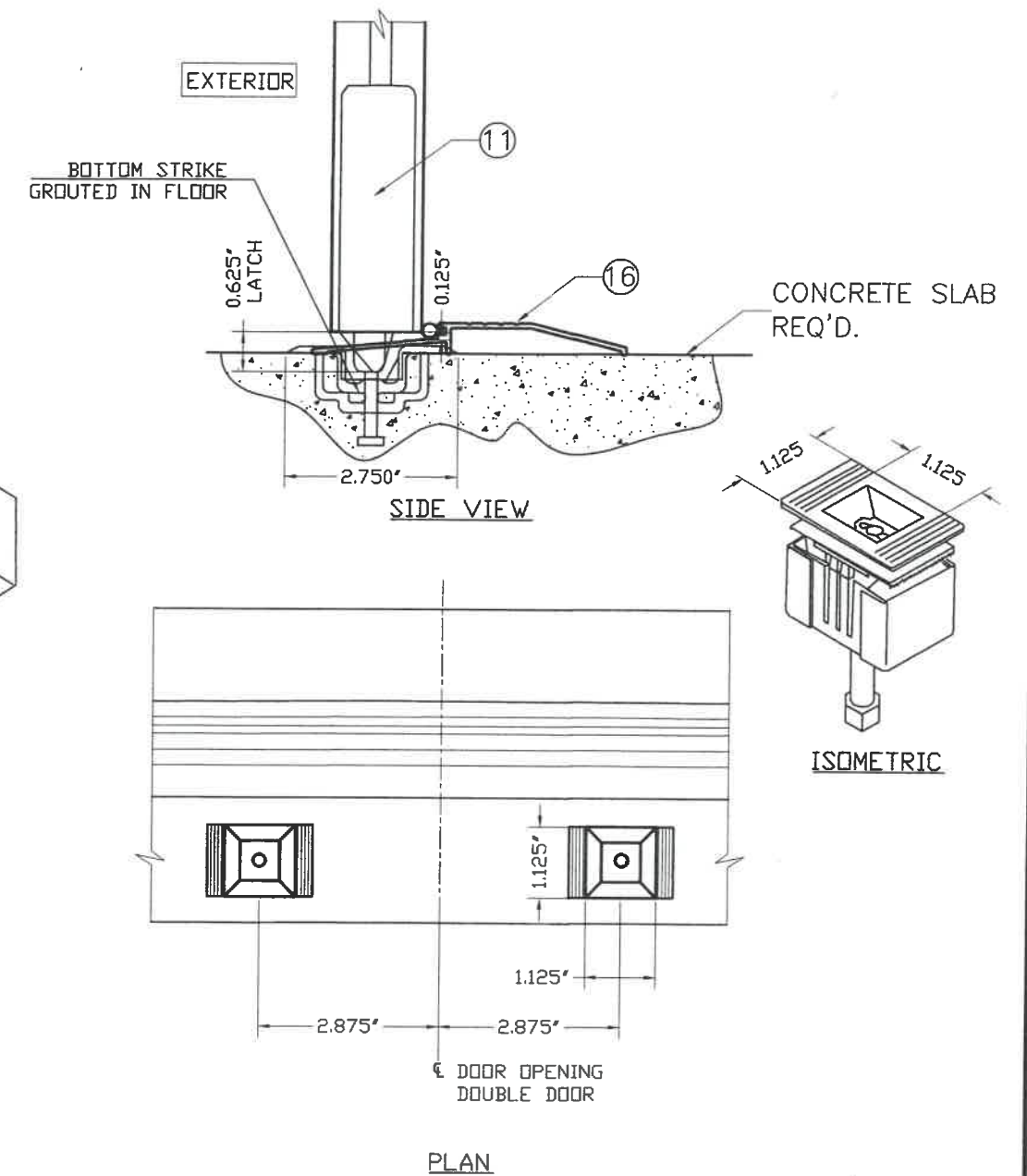
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DETAIL 1:
VD#338 CVR STRIKE IN FRAME HEAD



DETAIL 2:
VD #385A BOTTOM STRIKE IN THRESHOLD/FLOOR

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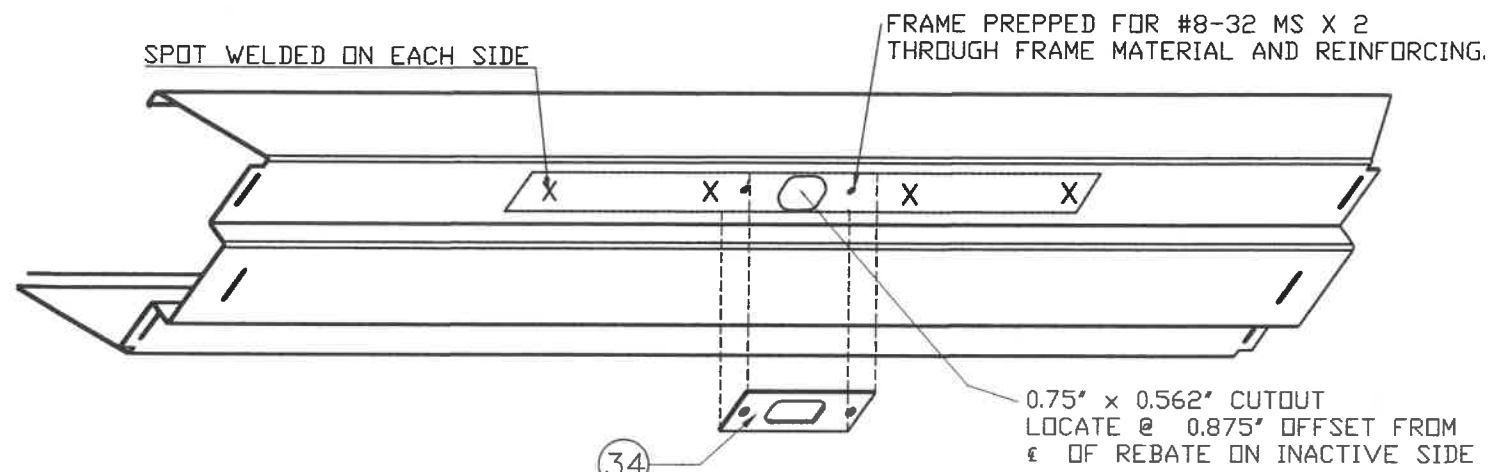
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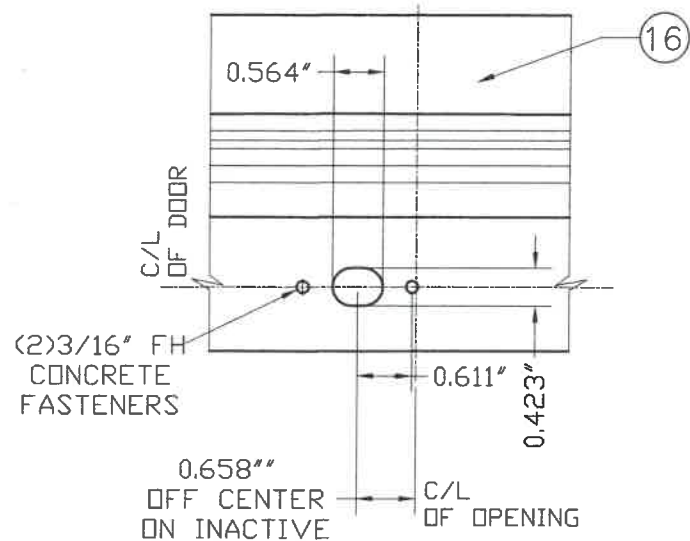
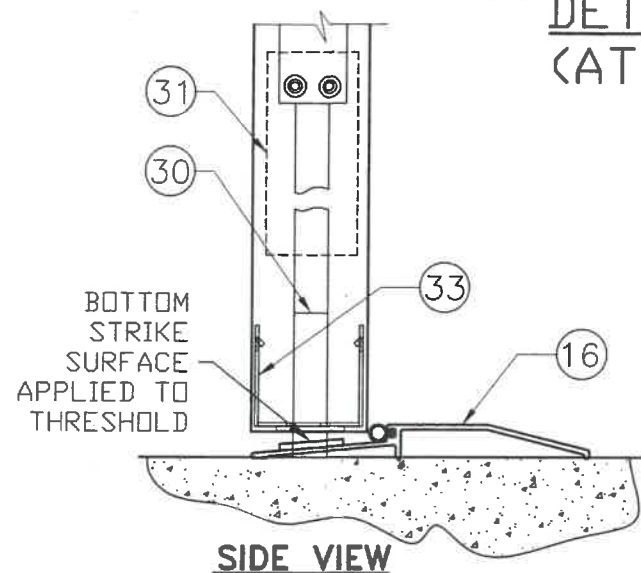
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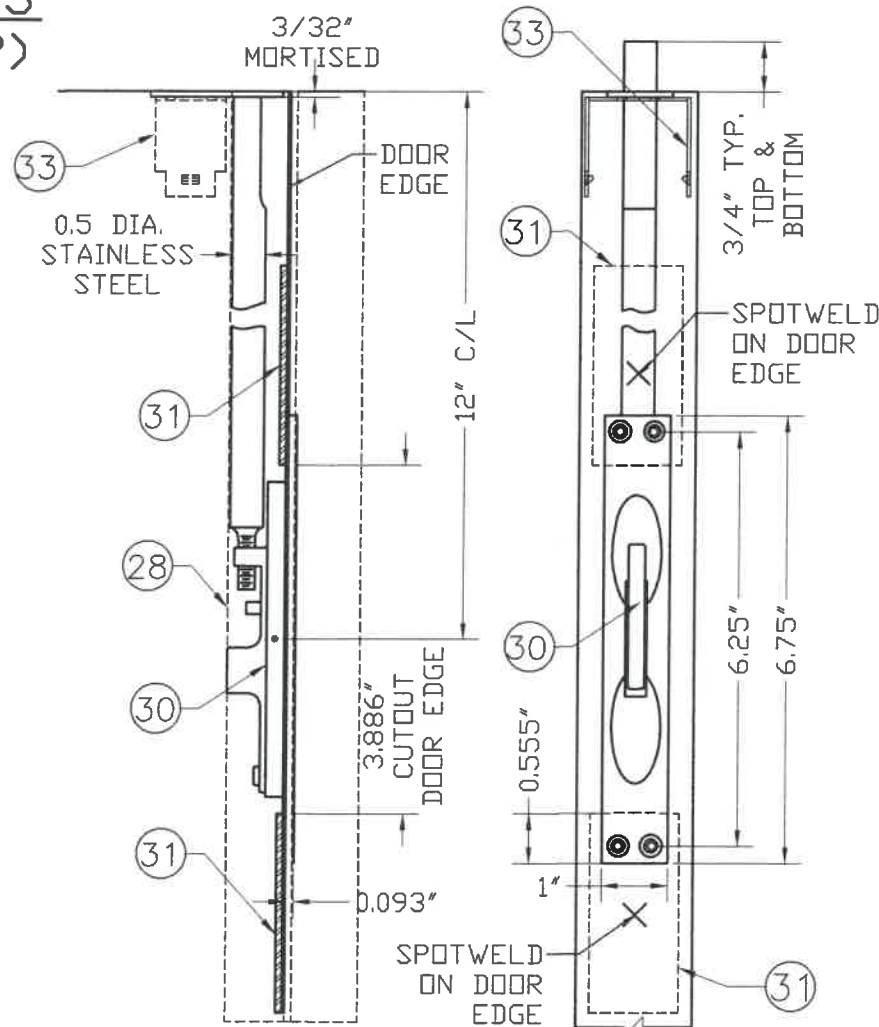


DETAIL 3 (AT TOP)

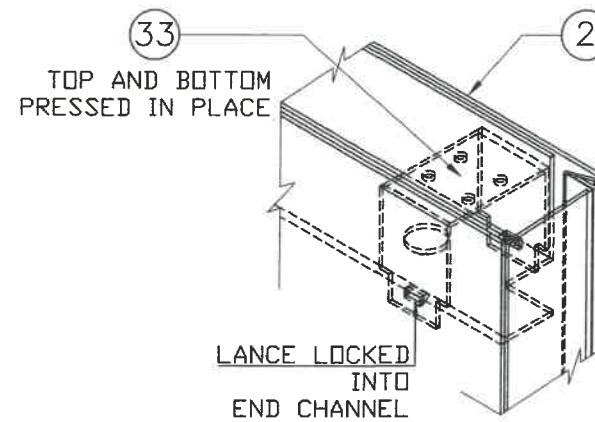


PLAN STRIKE PLATES AT THRESHOLD

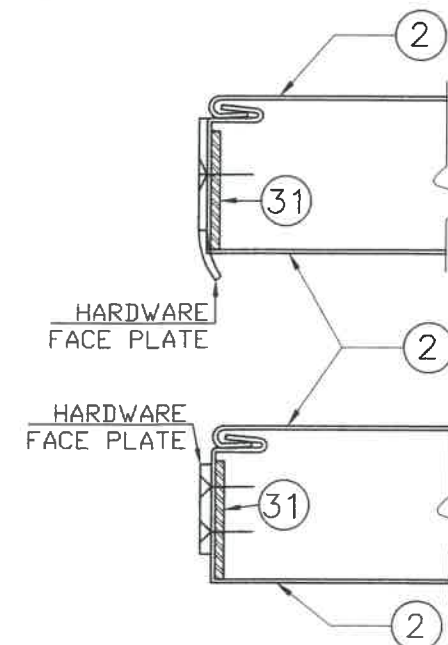
DETAIL 4 (AT BOTTOM)



REQ'D. REINFORCEMENTS AT FLUSHBOLT (AT TOP AND BOTTOM)



ISOMETRIC (AT TOP AS SHOWN & AT BOTTOM)



ASA AND FLUSHBOLT FACE PLATES ARE SURFACE MOUNTED AND SCREWED THROUGH DOOR MATERIAL AND REINFORCEMENTS. ASTRAGAL ONLY HAS CUTOUTS TO CLEAR HARDWARE FACE PLATES

PLAN

ISOMETRIC

STATE OF TEXAS
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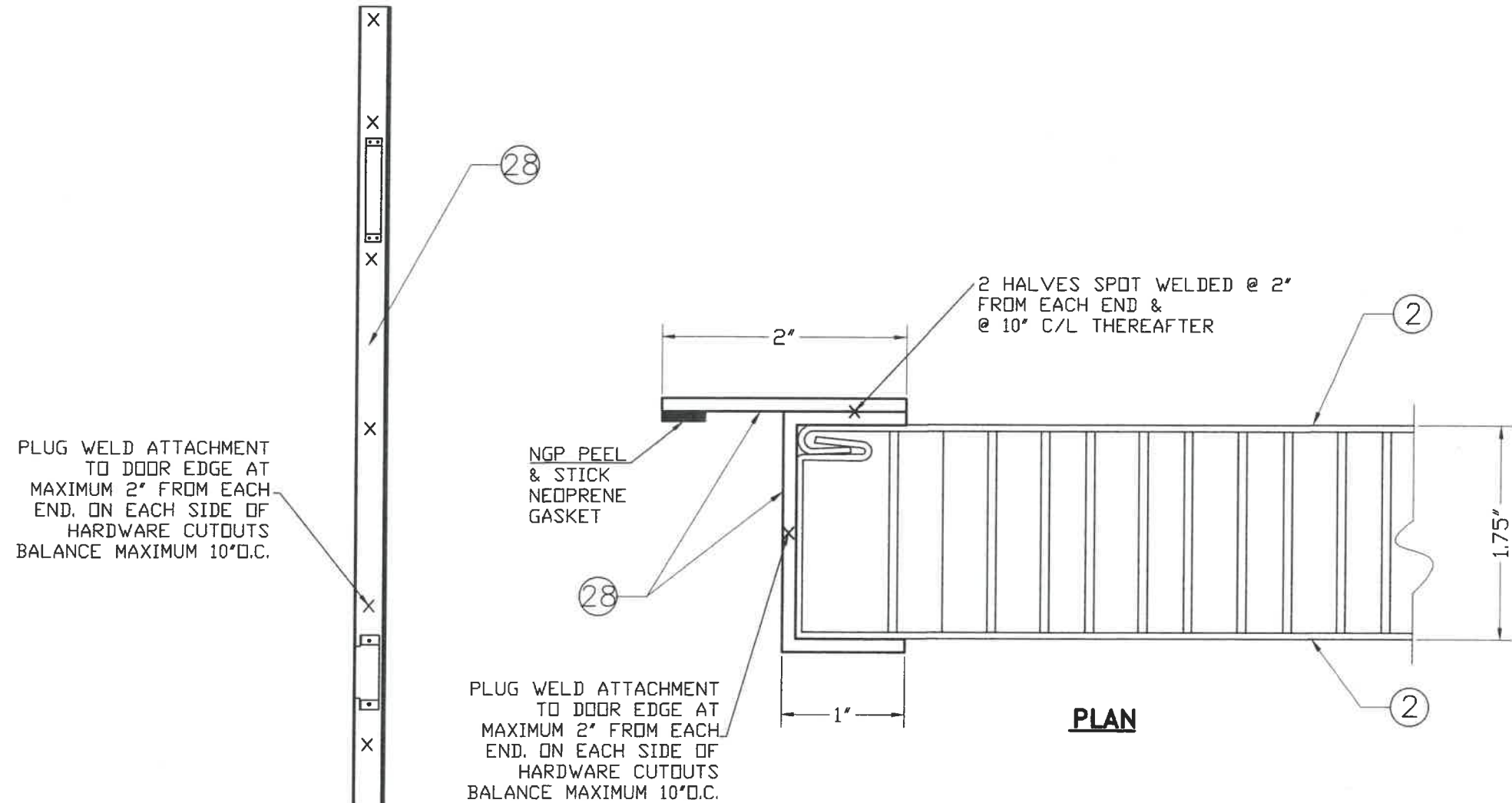
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Z ASTRAGAL 28 DETAIL

SIDE VIEW

PLAN



P.E. SEAL/SIGNATURE/DATE

TEXAS DEPARTMENT OF INSURANCE - 2018

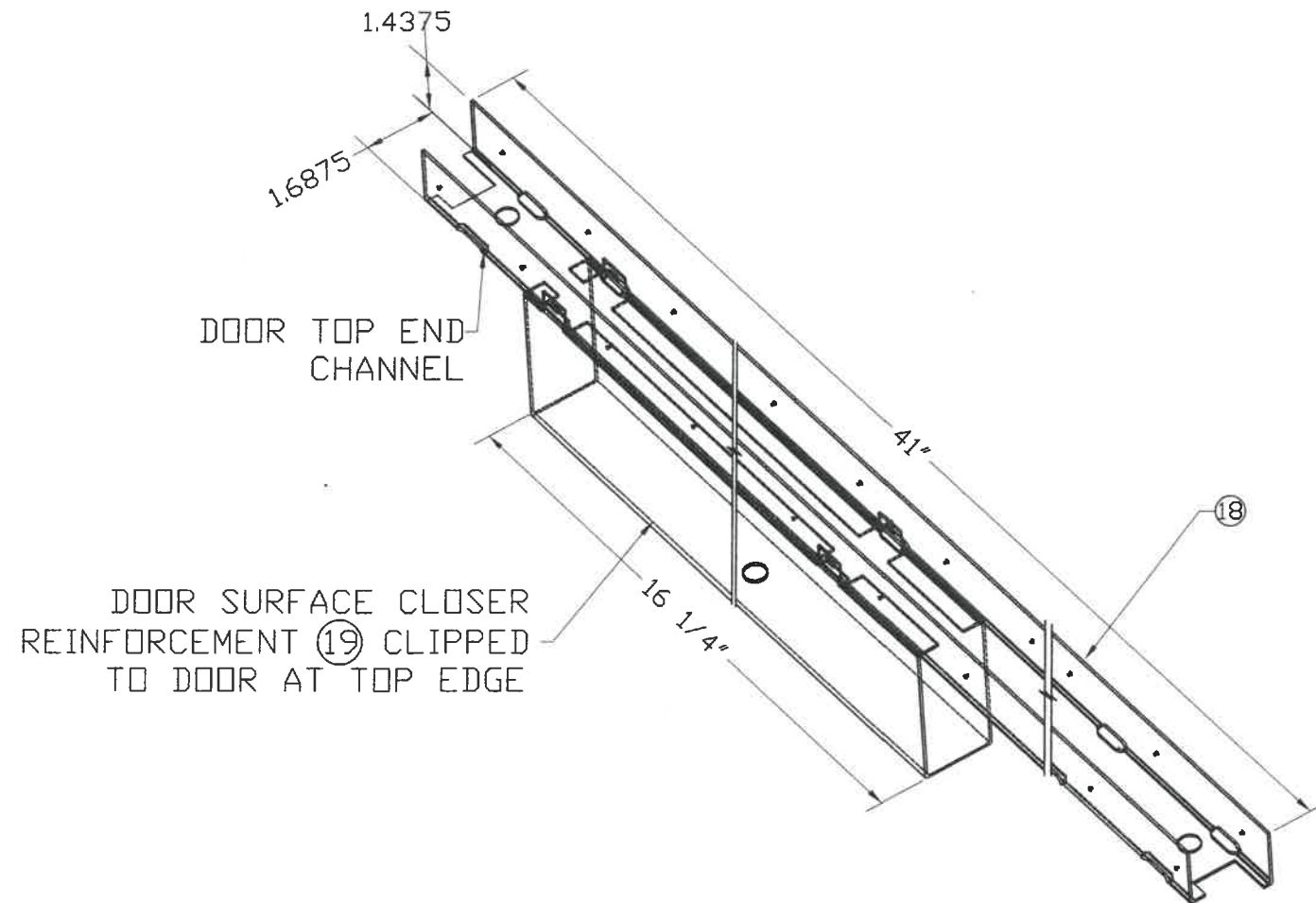
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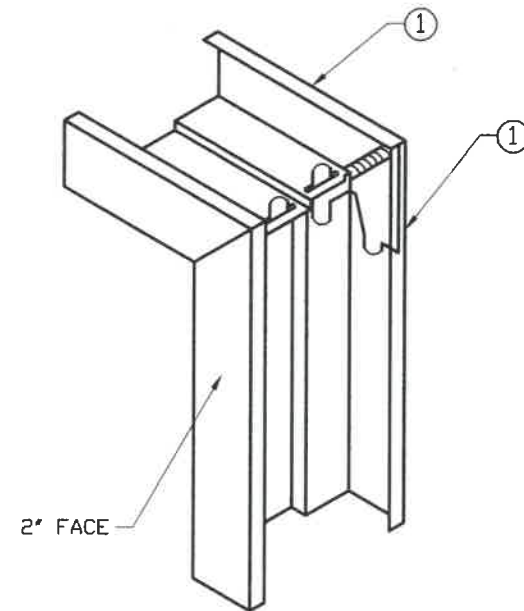
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DOOR SURFACE CLOSER REINFORCEMENT (19) CLIPPED TO DOOR AT TOP EDGE

DOOR SURFACE CLOSER REINFORCEMENT (19) AND END CHANNEL (18) ASSEMBLY DETAIL
DETAIL Z



1. DIEMITERED CORNER CONT. WELDED INSIDE FACES & AT RETURNS
2. CAULK COMPLETE INSIDE CORNER WITH GE SILICONE II (17)

DETAIL Y
CORNER DETAIL Y

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