

PIONEER INDUSTRIES

SERIES PIOCANE FLUSH STEEL DOOR

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.

2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.

3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.

4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.

5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.

6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

7. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL EXPANSION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.

8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

9. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55

B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.

C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 5TH EDITION (2014) FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

TAS 201-94

TAS 202-94

TAS 203-94

2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.

3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.

4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.

6. WINDOW FRAME MATERIAL: 16 GA. STEEL

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	INSTALLATION & GENERAL NOTES
2	-	ELEVATION
3	-	MASONRY ANCHORS
4	-	VERTICAL SECTIONS
5	-	HORIZONTAL SECTIONS
6	-	HORIZONTAL SECTIONS
7	-	FRAME CORNER CONSTRUCTION & HINGE REINFORCEMENTS
8	-	BILL OF MATERIALS

DESIGN PRESSURE RATING		
DESIGN PRESSURE - ALL SIZES		MISSILE IMPACT RATING
+70.0 / -70.0 PSF	W/ WATER INFILTRATION	SMALL AND LARGE MISSILE IMPACT RATED

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2015.08.28 18:50:06 -04'00'

PIONEER INDUSTRIES
171 SOUTH NEWMAN STREET
HACKENSACK, NJ 07601
PH: (201) 933-1900 FX: (201) 933-9580

TITLE: PIOCANE STEEL DOOR
INSTALLATION &
GENERAL NOTES

PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD, STE 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

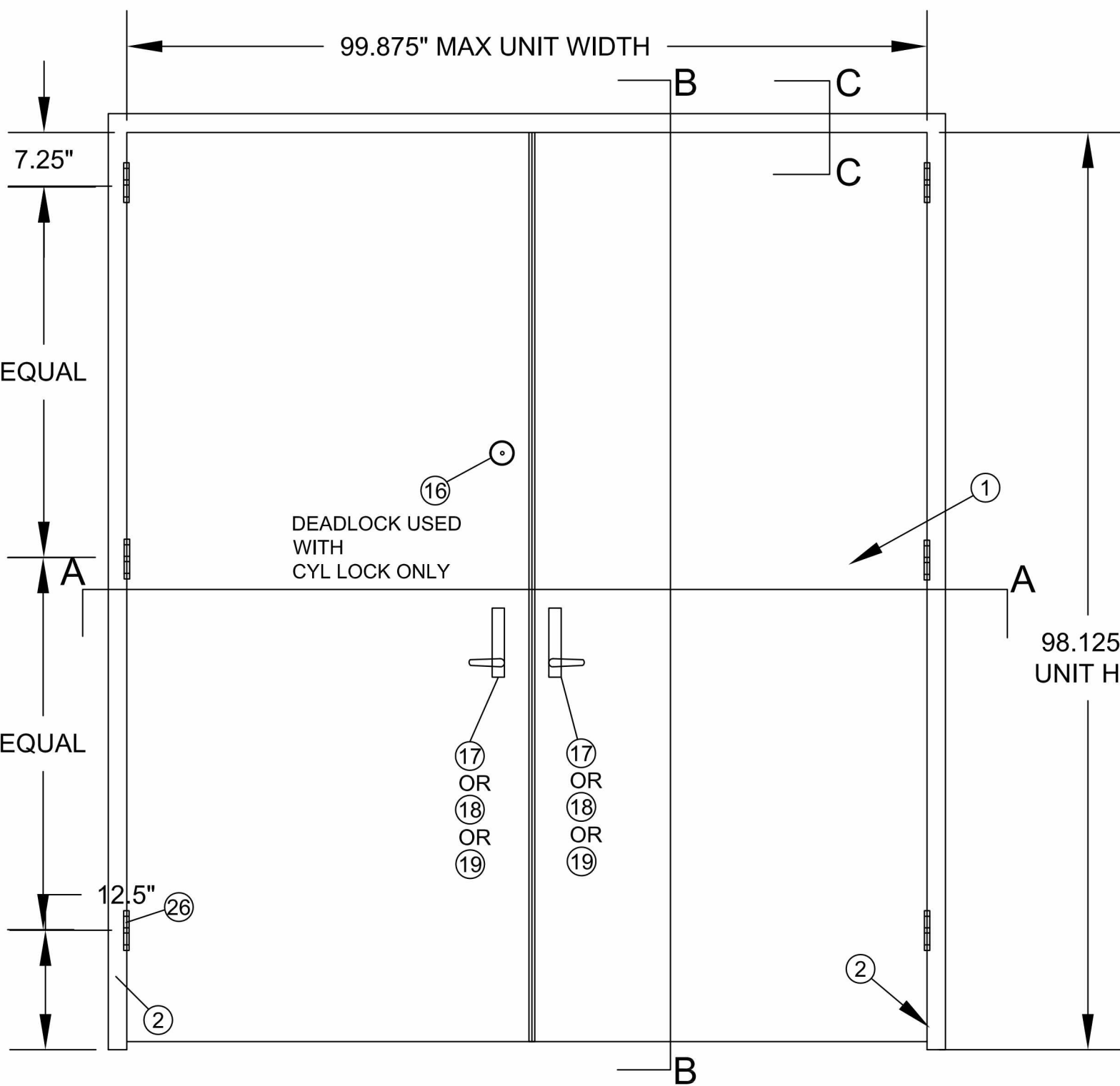
REVISIONS	BY	DATE
	DESCRIPTION	LS
	NO.	5TH EDITION FBC REVISIONS
	A	8/7/15



DATE: 08.28.15
DWN BY: LMS
CHK BY: MSS
SCALE: NTS

DWG #: **PI001**
SHEET: **1 OF 8**

EXTERIOR ELEVATION +/- 70 PSF



HINGE REQUIREMENTS
- MINIMUM 3 HINGE REQUIRED PER DOOR LEAF

DESIGN PRESSURE RATING			
	PRESSURE	WATER INFILTRATION	LARGE MISSILE IMPACT
POSITIVE	+70	YES	YES
NEGATIVE	-70	YES	YES



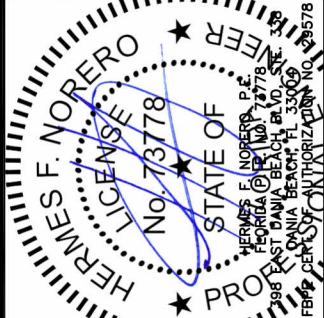
PIONEER
OUR DOOR IS OPEN

PIONEER INDUSTRIES
171 SOUTH NEWMAN STREET
HACKENSACK, NJ 07601
PH: (201) 933-1900 FX: (201) 933-9580

TITLE: PIOCANE STEEL DOOR ELEVATION

PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD, STE 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS			
NO.	DESCRIPTION	BY	DATE
A	5TH EDITION FBC REVISIONS	LS	8/7/15



DATE: 08.28.15

DWN BY: LMS

CHK BY: MSS

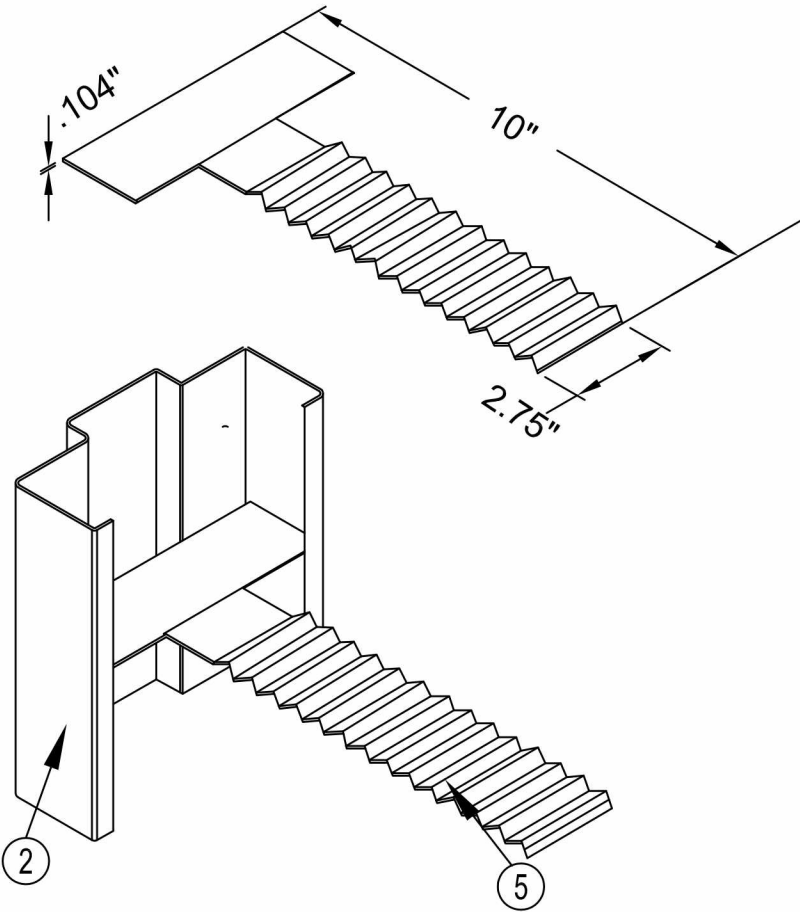
SCALE: NTS

DWG #:

PI001

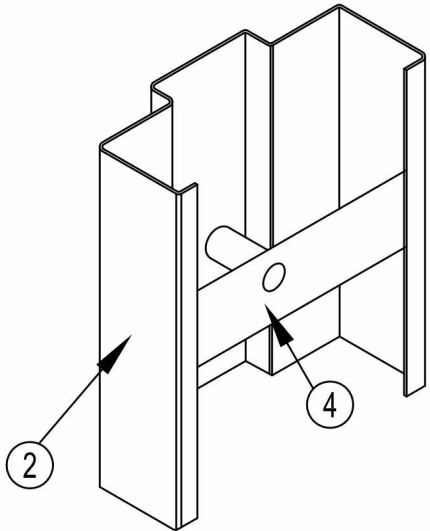
SHEET: 2 OF 8

MASONRY ANCHORS .



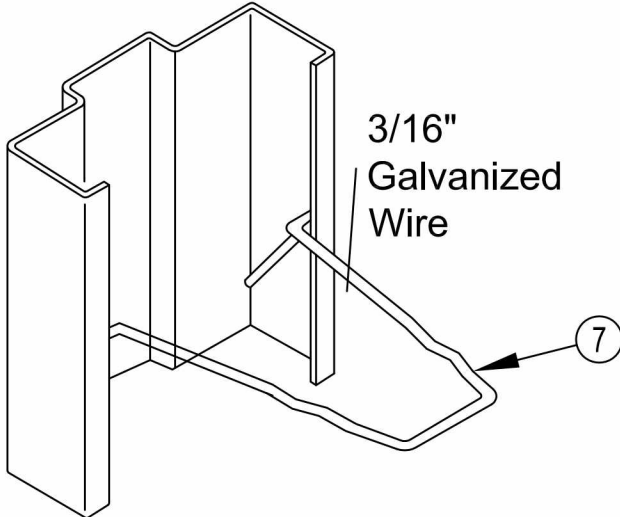
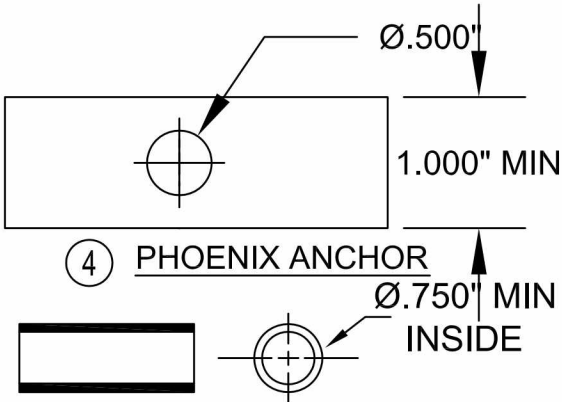
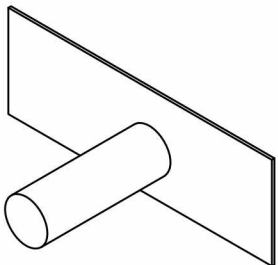
5 MASONRY T ANCHOR

ANCHOR QUANTITY:
4 PER JAMB 8 PER FRAME
SPACED FROM BOTTOM
6.875", 12.5", 36", 86"
(NOT TO EXCEED AS TESTED)



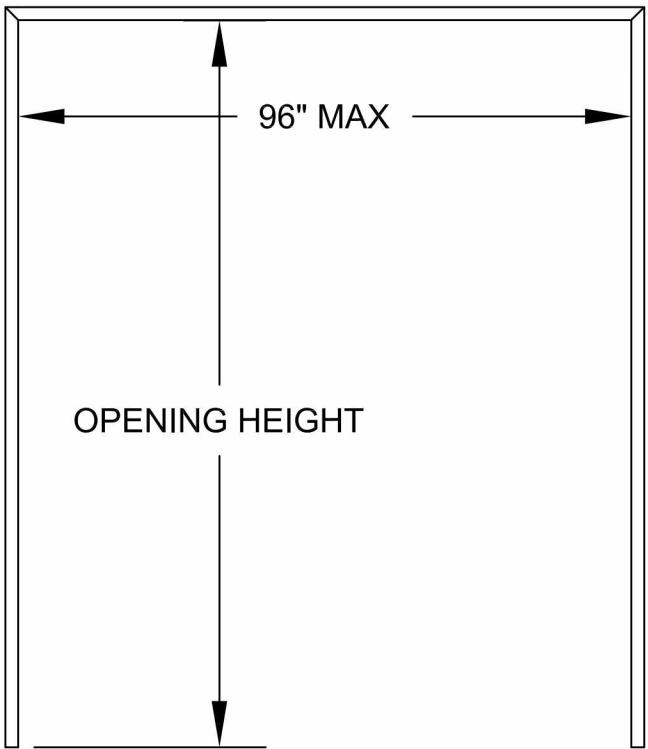
4 PHOENIX ANCHOR

ANCHOR QUANTITY:
4 PER JAMB 8 PER FRAME
SPACED FROM BOTTOM
6.875", 33.25", 64", 88.5"
(NOT TO EXCEED AS TESTED)



7 WIRE MASONRY ANCHOR
(Adjustable to desired Jamb depth)

ANCHOR QUANTITY:
4 PER JAMB 8 PER FRAME
SPACED FROM BOTTOM
15.5", 37.5", 61.5", 87"
(NOT TO EXCEED AS TESTED)



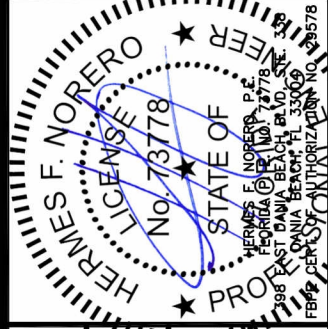
PIONEER OUR DOOR IS OPEN

PIONEER INDUSTRIES
171 SOUTH NEWMAN STREET
HACKENSACK, NJ 07601
PH: (201) 933-1900 FX: (201) 933-9580

TITLE: PIOCANE STEEL DOOR
MASONRY ANCHORS

PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD, STE 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS			
NO.	DESCRIPTION	BY	DATE
A	5TH EDITION FBC REVISIONS	LS	8/7/15



DATE: 08.28.15
DWN BY: LMS
CHK BY: MSS
SCALE: NTS

DWG #: **PI001**

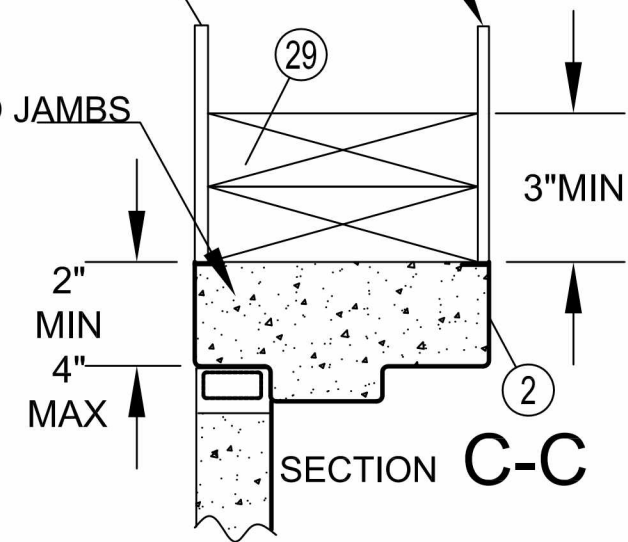
SHEET: **3 OF 8**

SECTION **B-B**



EXTERIOR SHEETING

INTERIOR SHEETING



1 7/8"

4"

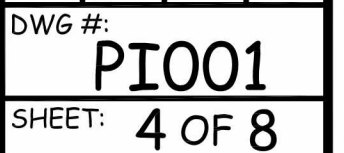
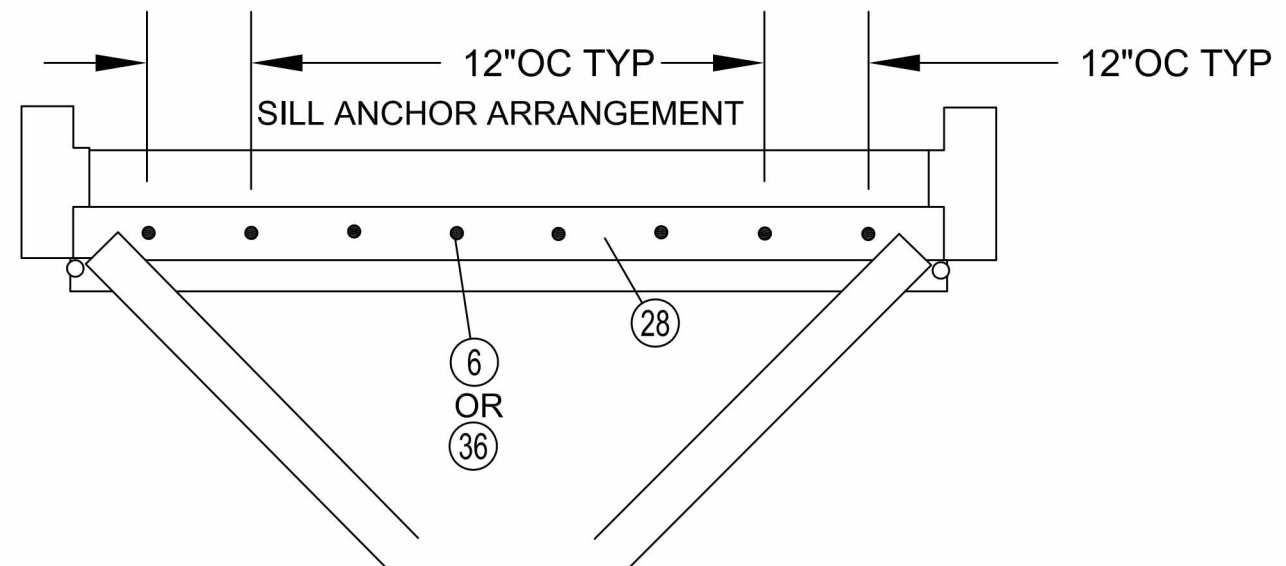
REINFORCED CONCRETE WALL

#5 VERTICAL REBAR

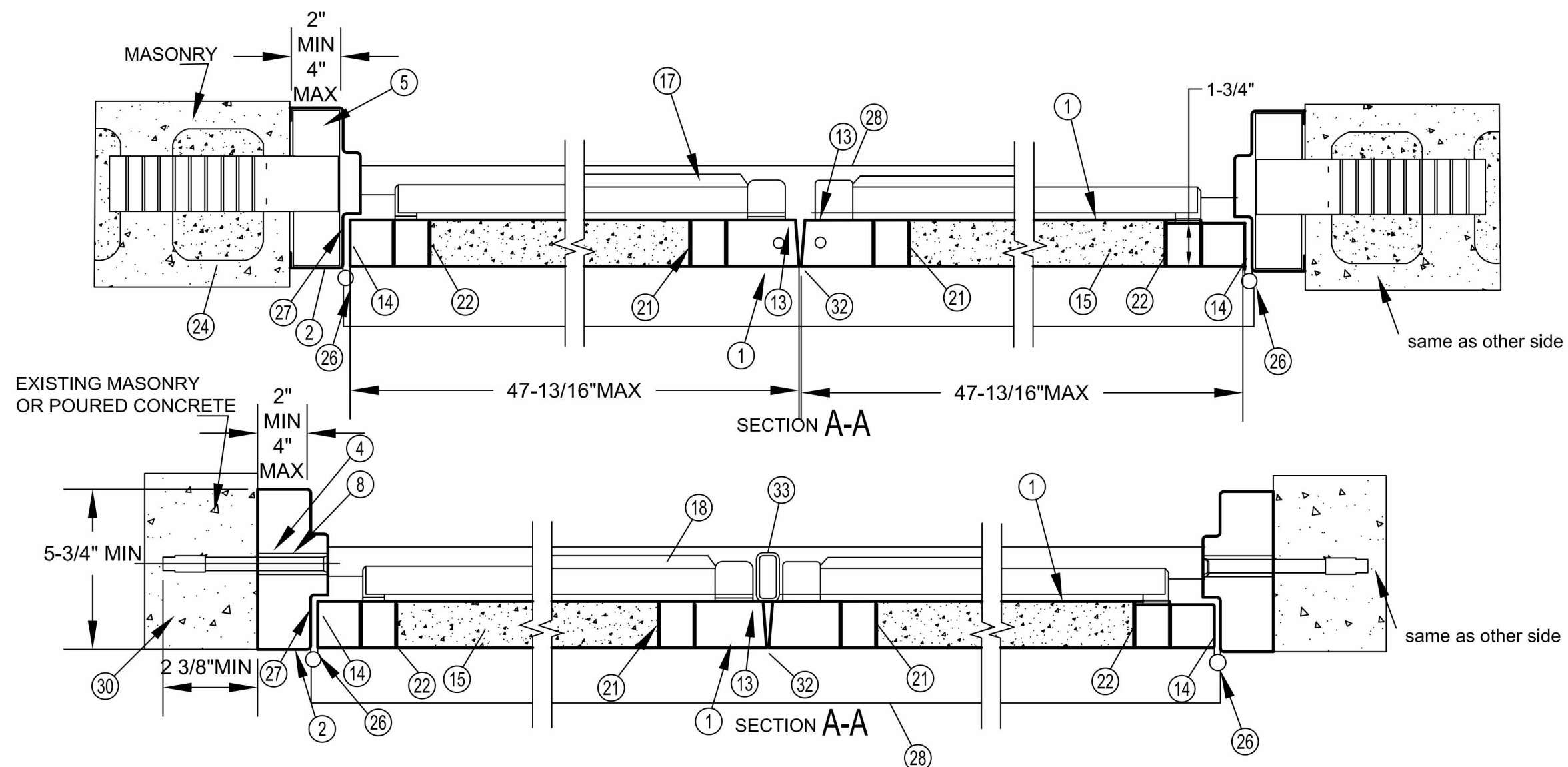
1 1/4"

2A

ALTERNATE HEAD FRAME DETAIL



PAIR DOORS WITH CONCEALED VERTICAL ROD OR RIM EXIT (SINGLE DOORS SAME AS ACTIVE DOOR).



ALTERNATE DOOR FRAME DETAIL

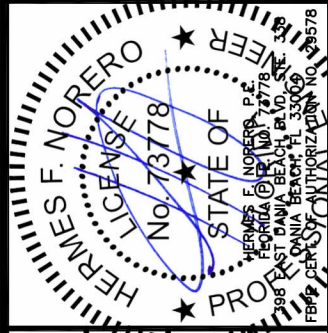
PIONEER OUR DOOR IS OPEN

PIONEER INDUSTRIES
171 SOUTH NEWMAN STREET
HACKENSACK, NJ 07601
PH: (201) 933-1900 FX: (201) 933-9580

TITLE: PIOCANE STEEL DOOR
HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD, STE 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

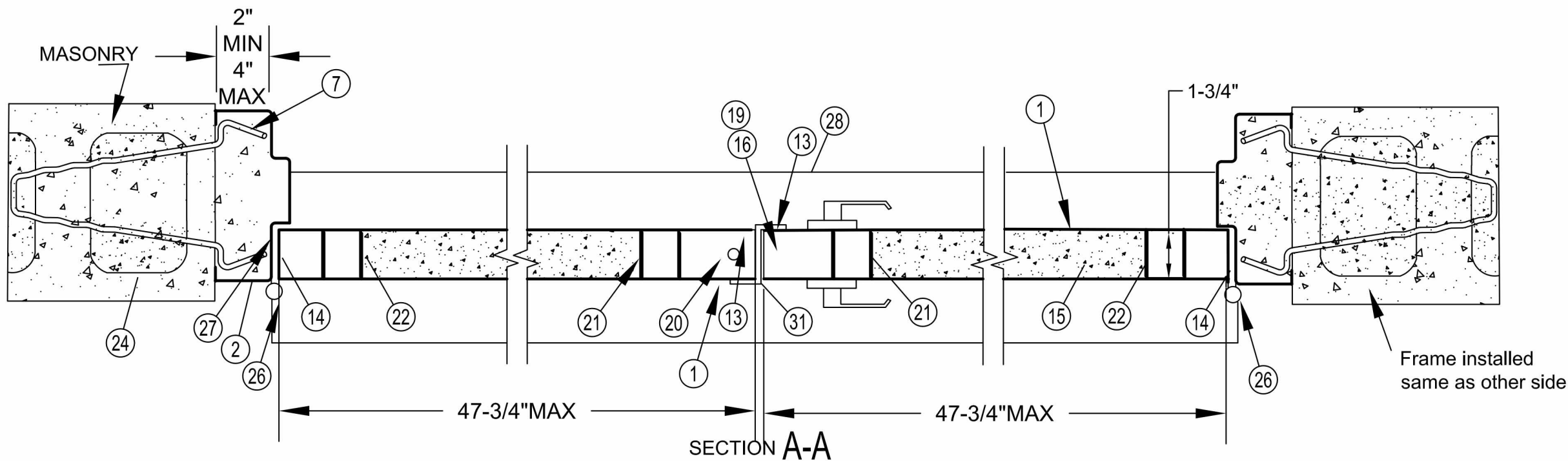
REVISIONS		DESCRIPTION	BY	DATE
NO.	A	5TH EDITION FBC REVISIONS	LS	8/7/15



DATE: 08.28.15
DWN BY: LMS
CHK BY: MSS
SCALE: NTS

DWG #: **PI001**
SHEET: **5 OF 8**

PAIR DOORS WITH CYLINDRICAL LOCK, DEAD LOCK, FLUSH BOLTS
AND Z ASTRAGAL.(SINGLE DOOR SAME AS ACTIVE DOOR)

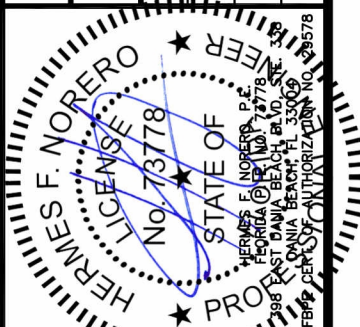


TITLE: PIOCANE STEEL DOOR
HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD, STE 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

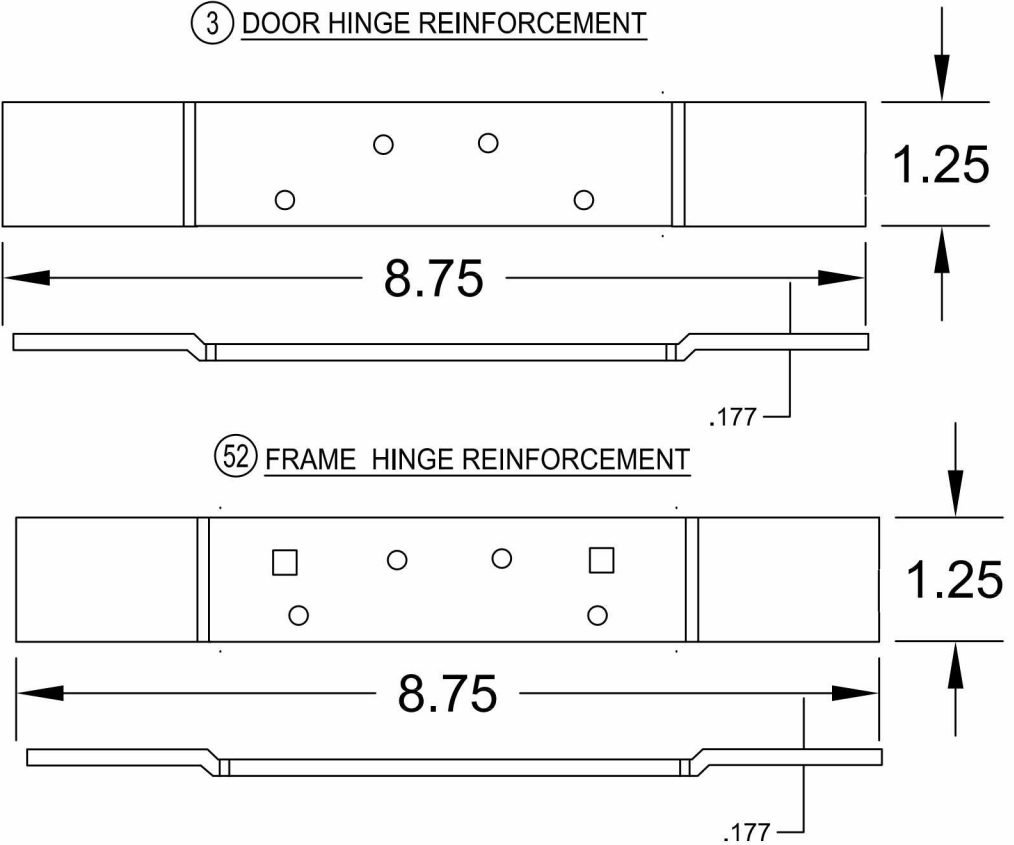
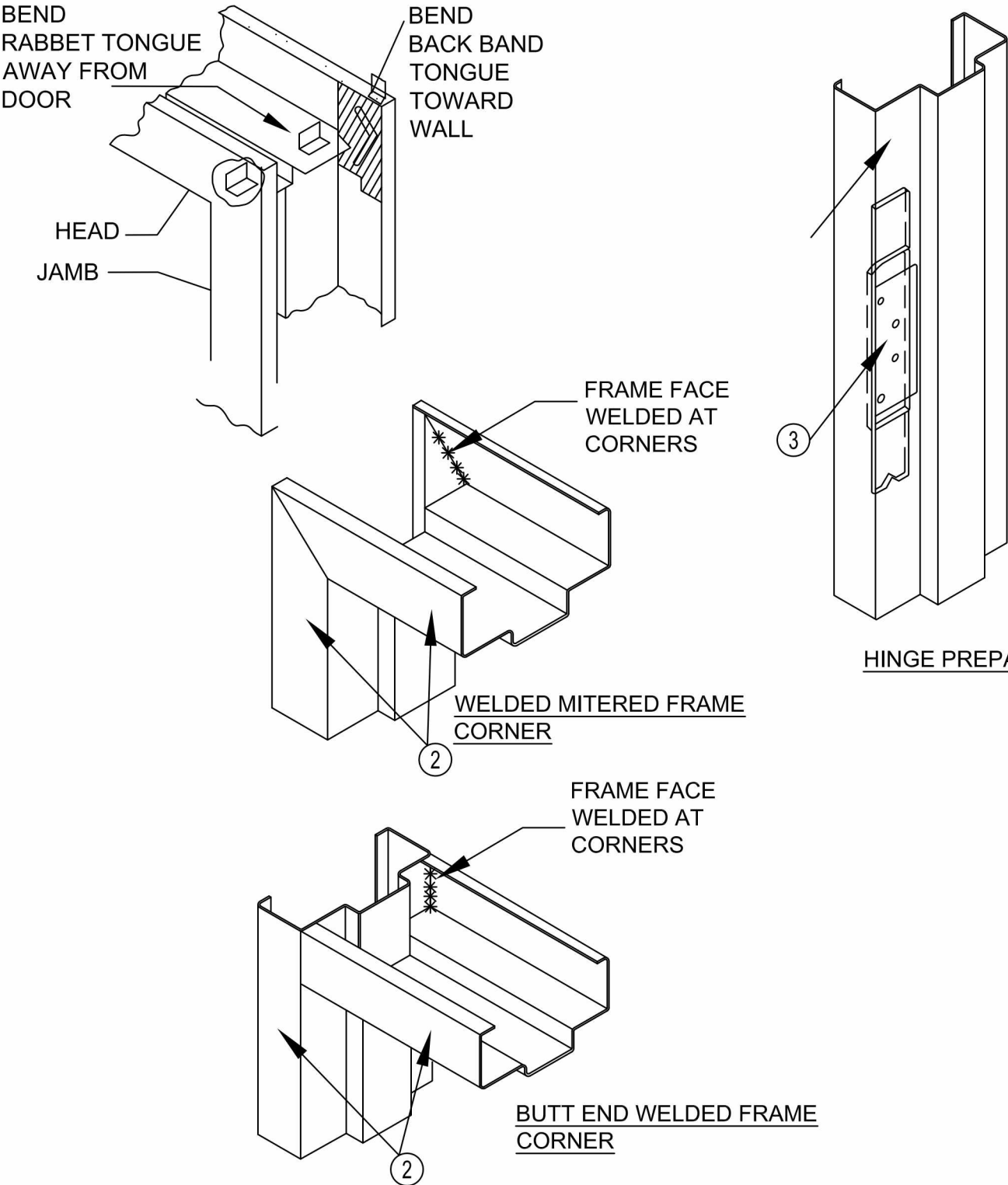
NO.	DESCRIPTION	BY	DATE
A	5TH EDITION FBC REVISIONS	LS	8/7/15



DATE: 08.28.15
DWN BY: LMS
CHK BY: MSS
SCALE: NTS

DWG #: P1001
SHEET: 6 OF 8

FRAME CORNER CONSTRUCTION AND HINGE REINFORCEMENTS.

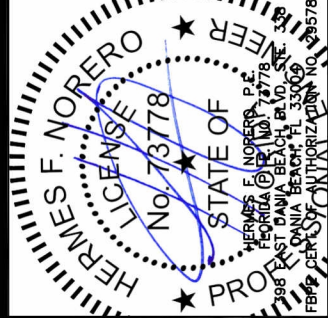


NOTE:
1. ALL DIMENSIONS ARE IN INCHES
2. THK OF SHIM PLATE = 0.43"

PIONEER OUR DOOR IS OPEN
PIONEER INDUSTRIES
171 SOUTH NEWMAN STREET
HACKENSACK, NJ 07601
PH: (201) 933-1900 FX: (201) 933-9580

TITLE: PIOCANE STEEL DOOR
FRAME CORNER CONSTRUCTION
& HINGE REINFORCEMENTS
PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD, STE 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS			
NO.	DESCRIPTION	BY	DATE
A	5TH EDITION FBC REVISIONS	LS	8/7/15



DATE: 08.28.15
DWN BY: LMS
CHK BY: MSS
SCALE: NTS
DWG #: **PI001**
SHEET: **7 OF 8**

BILL OF MATERIALS

ITEM	QUANTITY	DESCRIPTION
1	_____	DOOR -16 GA.(0.054")MIN., 14 GA.(0.068")MAX (COLD ROLLED OR GALVANNEALED STEEL)
2	_____	FRAMES -16 GA. (0.053") MIN., 12 GA. (0.094") MAX WELDED OR KD FRAME (COLD ROLLED,GALVANNEALED STEEL) JAMB DEPTH 5-3/4" MIN,12" MAX
2A	_____	FRAMES -16 GA. (0.053") MIN., 12 GA. (0.094") MAX WELDED OR KD FRAME (COLD ROLLED,GALVANNEALED STEEL) JAMB DEPTH 2" MIN, 4" MAX
3	AS INDICATED	7 GA.(0.177") MIN. FRAME HINGE REINFORCEMENT
4	AS INDICATED	16 GA. (0.053")MIN.PHOENIX ANCHOR/PIPE AND STRAP ANCHOR
5	AS INDICATED	12 GA.(0.094"MIN) MASONRY T ANCHOR
6	AS INDICATED	3/16" TAPCON 1-1/4" MINIMUM EMBEDMENT
7	--	3/16" DIAMETER STEEL WIRE ANCHORS
8	AS INDICATED	3/8" FLAT HEAD EXPANSION SHELL ANCHOR BOLTS SEE SHEET 3 FOR QUANTITY 3" MINIMUM EMBEDMENT
9	1	16 GA. (0.053") MIN., TOP END CHANNEL
10	1	16 GA. (0.053") MIN., BOTTOM END CHANNEL
11	1	12 GA. (0.094")MAX., TOP CAP
12	1	12 GA. (0.094")MAX., BOTTOM CAP
13	1	16 GA. (0.053") MIN DOOR LOCK REINFORCEMENT
14	1	7 GA DOOR HINGE REINFORCEMENT
15	1	1-11/16" 1 POUND NOMINAL DENSITY EXPANDABLE POLYSTYRENE BY BASF (STYROPOR)
16	1	SCHLAGE 600 SERIES DEADLOCK
17	2	VON DUPRIN CONCEALED VERTICAL ROD EXIT DEVICE PER DOOR LEAF
18	2	VON DUPRIN 99 OR XP99 RIM EXIT DEVICE PER DOOR LEAF
19	1	SCHLAGE ND SERIES CYLINDRICAL LOCK
20	2	IVES 458 TOP AND BOTTOM MANUAL FLUSHBOLTS
21	1	14 GA. (0.068") MIN. LOCK SIDE EXIT REINFORCING
22	1	14 GA. (0.068") MIN. HINGE SIDE EXIT REINFORCING
23	1	4-1/2" X 4-1/2" X 0.134" OR 0.180" ; 5" X 5" X 0.146" OR 0.190"
24	1	8" CMU BLOCK FILLED WITH 2000 PSI MORTAR
25	--	--
26	AS INDICATED	14 GA. (0.068") MIN. CONCEALED VERTICAL ROD TOP LOCK SIDE REINFORCING STEEL HINGES-(IVES OR STANLEY)
27	1	ZERO WEATHERSTRIP PER FRAME MEMBER
28	1	ZERO ALUMINIUM THRESHOLD #65A, 1/2" TALL X 5" X NOMINAL DOOR WIDTH
29	--	--
30	1	POURED CONCRETE 2000 PSI (MIN)
31	1	14 GA Z ASTRAGAL
32	1	ZERO #328A PER DOOR LEAF AT MEETING EDGE OF PAIRS OF DOORS; NOT REQD FOR SINGLE DOORS
33	1	VON DUPRIN #9954 HARDWARE MULLION
34	2	14 GA. (0.068") MIN OPTIONAL CLOSER REINFORCEMENT PER DOOR
35	1	FRAME HEAD REINFORCEMENT FOR PAIR DOOR FRAME
36	AS INDICATED	#10 SHEET METAL TYPE SCREW 1-3/8" MINIMUM EMBEDMENT
37	1	STRIKE JAMB REINFORCEMENT REQUIRED FOR SINGLE DOORS WITH RIM EXIT.



PIONEER INDUSTRIES
171 SOUTH NEWMAN STREET
HACKENSACK, NJ 07601
PH: (201) 933-1900 FX: (201) 933-9580

TITLE:

PIOCANE STEEL DOOR
BILL OF MATERIALS

PREPARED BY:


BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD, STE 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS			
NO.	DESCRIPTION	BY	DATE
		LS	8/7/15
A	5TH EDITION FBC REVISIONS		



DATE:

08.28.15

DWN BY:

LMS

CHK BY:

MSS

SCALE:

NTS

DWG #:

PI001

SHEET:

8 OF 8