

THE FRENCH STEEL CO

SWING OUT AND SWING IN FRENCH STEEL EXTERIOR HINGED DOORS AND STATIONARY WINDOWS

ANCHORAGE DETAILS

GENERAL NOTES:

- THIS PRODUCT WAS TESTED IN A MANNER CONSISTENT WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) TO THE DESIGN PRESSURE(S) STATED HEREIN USING THE FOLLOWING PROTOCOLS.
 - TAS 201-94
 - TAS 202-94
 - TAS 202-94
- THIS PRODUCT WAS TESTED IN A MANNER CONSISTENT WITH THE WIND- BORNE DEBRIS REGION REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) TO THE DESIGN PRESSURE(S) STATED HEREIN USING THE FOLLOWING PROTOCOLS.
 - ASTM E330, ASTM E331, ASTM E283, ASTM E1886 AND ASTM E1996.
 - FORCED ENTRY PER ASTM F588 AND AAMA 1304.
- THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON THE FOLLOWING SIGNED AND SEALED TEST REPORTS BY INTERTEK/ARCHITECTURAL TESTING, 1701 WESTFORK DRIVE, SUITE 106, LITHIA SPRINGS, GA 30122
 - TEST REPORT NO. L8469,01-550-01 R1, DATED 11/08/21, SIGNED AND SEALED BY TANYA A. DOLBY, FL PE NO. 93536.
- THIS PRODUCT EVALUATION DOCUMENT IS FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY, 2X FRAMING AND METAL FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- 2X BUCKS (WHEN USED) HAVE BEEN DESIGNED TO PROPERLY TRANSFER ALL LOADS TO THE OPENING SUPPORTING STRUCTURE.
- THIS PRODUCT IS IMPACT RESISTANT. ADDITIONAL IMPACT PROTECTIVE DEVICES ARE NOT REQUIRED.
- SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- MATERIALS:
 - SEE SHEET 15 FOR FRAMING COMPONENTS.
 - SEE SHEET 12 FOR GLAZING DETAIL. KURARAY AMERICA SENTRYGLAS INTERLAYER PER CURRENT MD NOA.
 - SEE TABLE THIS SHEET FOR HARDWARE REQUIREMENTS.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.
- ALL SETTING BLOCKS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER.
- DESIGNATION X STANDS FOR OPERABLE PANEL AND "O" FOR FIXED PANEL.
- THIS DRAWING CERTIFIES THE DOOR INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED DOOR IS NOT PART OF THIS INSTALLATION CERTIFICATION. IT SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER AND/OR THE INSTALLER TO PROVIDE APPROPRIATE SEALING DETAILS.
- IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE, WOOD BUCKS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES.

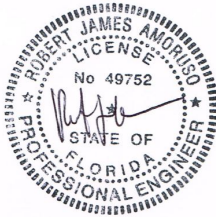
INSTALLATION NOTES:

- DOOR FRAME TO 2X WOOD BUCK:
 - TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH MOUNTING FLANGE (ANGLED INSTALLATION CLIP) INSTALLATION LOCATION SHOWN.
 - SEE SHEETS 2, 3, 6, 7 & 8 FOR ELEVATIONS SHOWING ANCHOR LOCATIONS.
 - SILL ANCHORAGE SHALL BE THROUGH FRAME AS SHOWN WHEN ANGLED INSTALLATION CLIP IS USED AT HEAD AND JAMBS
 - ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH THROUGH FRAME ANCHOR INSTALLATION LOCATION SHOWN.
 - SEE SHEETS 4, 5, 9, 10 & 11 FOR ELEVATIONS SHOWING ANCHOR LOCATIONS.
- ANCHOR SPACING TOLERANCES:
 - ANCHOR SPACING DIMENSIONS HAVE A TOLERANCE OF +/- 1 INCH.
 - EDGE DISTANCE DIMENSIONS HAVE A TOLERANCE OF +/- 2 INCH TO ALLOW FIT-UP AT FRAME CORNERS AND TO CLEAR INTERFERENCES.
- FOR DOOR ASSEMBLY SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.
- PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
- SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 1 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
- EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
- MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
- SEE SHEET 15 AND 16 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
- MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/2" INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
- 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 IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 1. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.



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Digitally signed by
Robert J Amoruso
Date: 2024.02.15
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DRAWING NO. FSC0001
REVISION A
DATED: 2/9/2024
SHEET 1 of 16

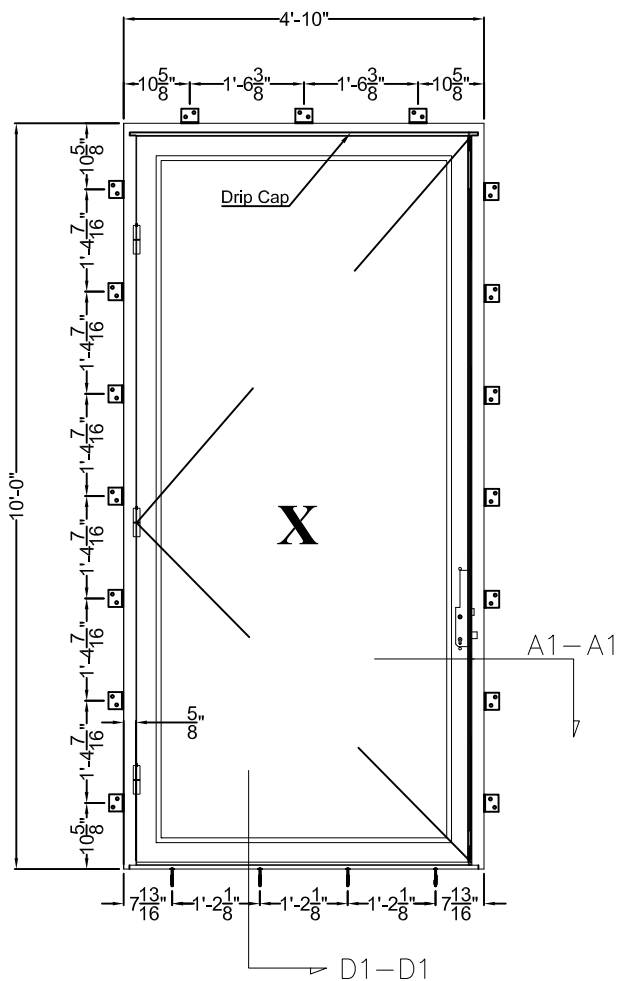
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REV.	DESCRIPTION	BY	DATE
A	UPDATE TO 2023 FBC	RJA	2/9/24

DESIGN PRESSURE (PSF)			LIMITED WATER RESISTANCE RATING	IMPACT RATING (SEE GENERAL NOTE 7)
+/- 45			0 psf per ASTM E331-00 (16) (SEE NOTE 1 BELOW)	HVHZ LARGE MISSILE IMPACT ----- WIND ZONE 4, MISSILE LEVEL D
Note 1: OVERHANG IN ACCORDANCE WITH REQUIREMENT BELOW CAN BE USED PER CHAPTER 17 OF FBC. 1. Door assemblies installed where the overhang (OH) ratio is equal to or more than 1 do not have to meet the water infiltration requirements. The overhang ratio shall be calculated by the following equation. 2. OH ratio = OH Length/OH Height, Where: 2.1. OH length = The horizontal measure of how far an overhang over a door projects out from door surface. 2.2. OH height = The vertical measure of the distance from the door sill to the bottom of the overhang over a door.				

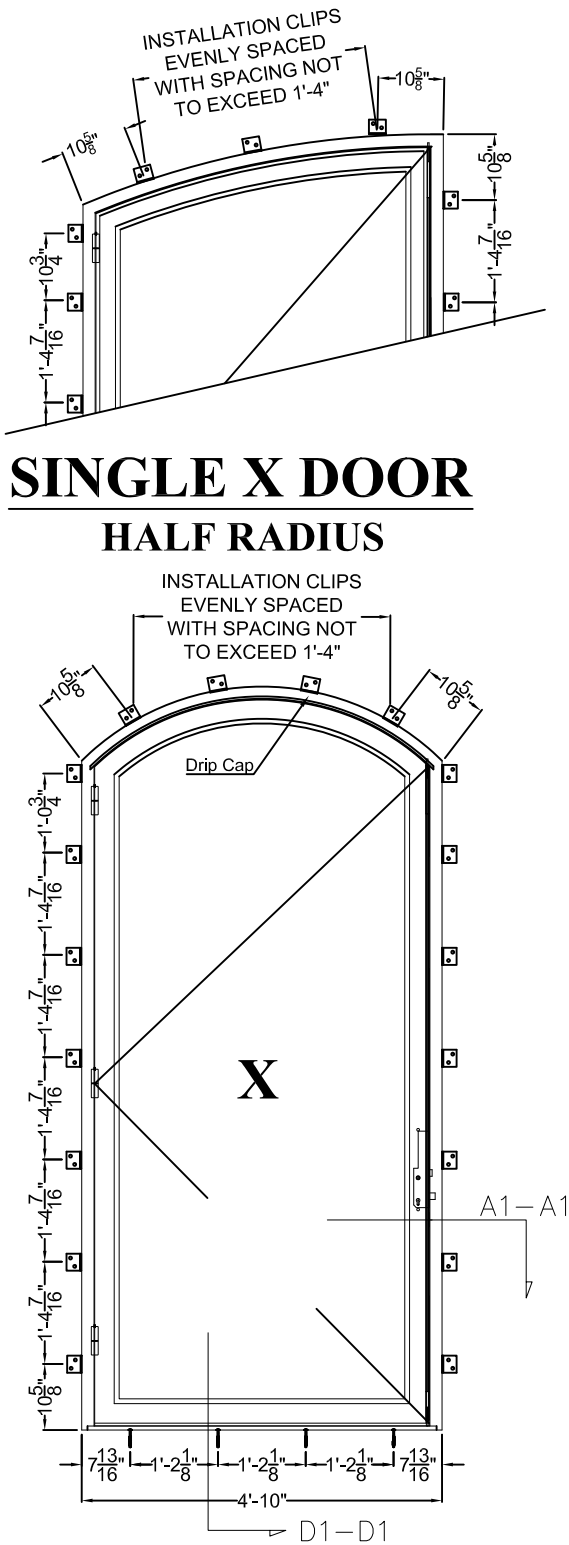
Locking Hardware	
Swing Out Door	Amesbury Truth P3000 Multi-point Series or equal Internal lock hardware
Swing in Door	Amesbury Truth P3000 Multi-point Series or equal Internal lock hardware

TABLE OF CONTENT	
SHEET	DESCRIPTION
1	GENERAL NOTES, INSTALLATION NOTES, ANCHOR REQUIREMENTS TABLE & DESIGN PRESSURE CHART
2 & 3	EXTERIOR ELEVATION - SWING OUT DOOR UNIT ASSEMBLIES - STEEL ANCHOR CLIP INSTALLATION
4 & 5	EXTERIOR ELEVATION - SWING OUT DOOR UNIT ASSEMBLIES - THROUGH FRAME INSTALLATION
6, 7 & 8	EXTERIOR ELEVATION - SWING IN DOOR UNIT ASSEMBLIES - STEEL ANCHOR CLIP INSTALLATION
9, 10 & 11	EXTERIOR ELEVATION - SWING IN DOOR UNIT ASSEMBLIES - THROUGH FRAME INSTALLATION
12	SWING IN & SWING OUT DOOR ASSEMBLY VERTICAL SECTION VIEWS AND GLAZING DETAILS
13 & 14	SWING IN DOOR ASSEMBLY HORIZONTAL SECTION VIEWS
15	SILL INSTALLATION ANCHOR REQUIREMENTS - SECTION VIEWS - THROUGH FRAME INSTALLATION AND TYPICAL FRAMING COMPONENTS
16	JAMB (SHOWN) AND HEAD INSTALLATION ANCHOR REQUIREMENTS - SECTION VIEWS - STEEL ANCHOR CLIP & THROUGH FRAME INSTALLATION

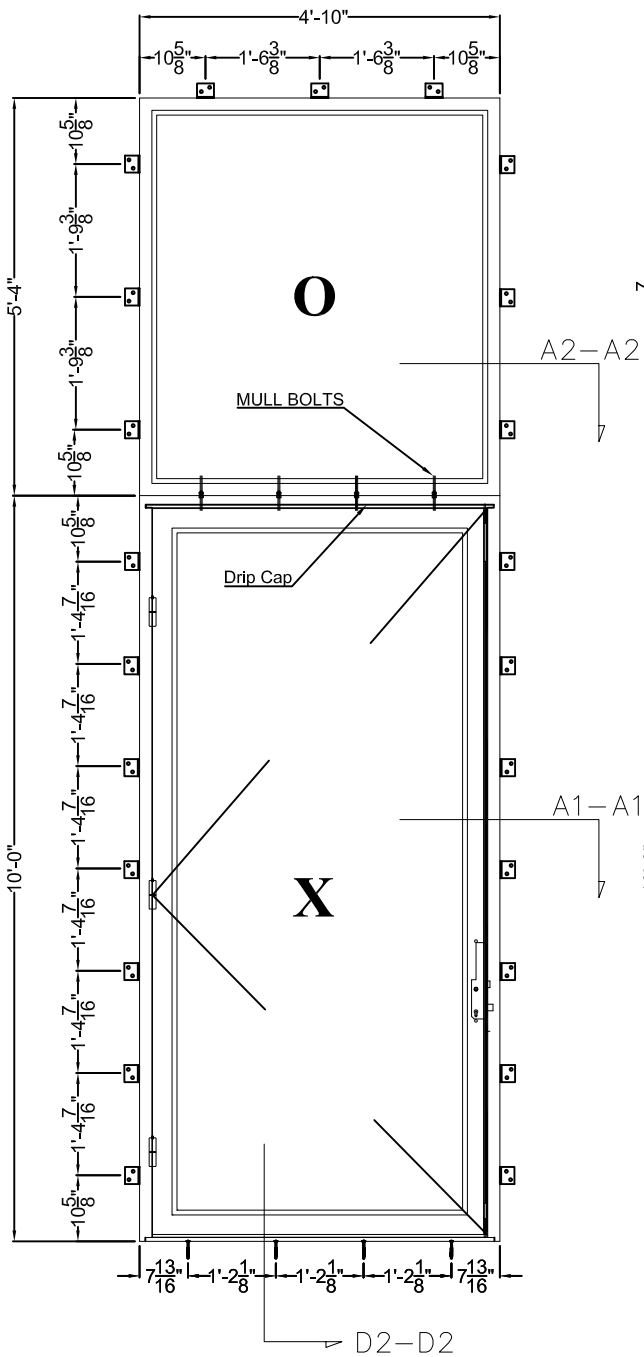
FRAME ANCHOR REQUIRMENTS TABLE					
OPENING TYPES (SUBSTRATE)(1)	MOUNTING BRACKETS FASTENERS (2)	MINIMUM EMBED	THROUGH BOLT FASTENERS	MINIMUM EMBED	MINIMUM EDGE DISTANCE
(2) MIN. 2X4 WOOD FRAMING OR BUCK (MIN. GR. 3 & G=055)	3/8" x 3 1/2 in. Hex Galvanized Lag Screw W/ Flat washer	3"	3/8" x 4 in. Hex Galvanized Lag Screw W/ Flat washer	3 1/4"	5/8"
(2) MIN. 2X6 WOOD FRAMING OR BUCK (MIN. GR. 3 & G=055)	3/8" x 4 in. Hex Galvanized Lag Screw W/ Flat washer	3 1/4"	3/8" x 4 in. Hex Galvanized Lag Screw W/ Flat washer	3 1/4"	5/8"
(2) MIN. 2X8 WOOD FRAMING OR BUCK (MIN. GR. 3 & G=055)	3/8" x 4 in. Hex Galvanized Lag Screw W/ Flat washer	3 1/4"	3/8" x 4 in. Hex Galvanized Lag Screw W/ Flat washer	3 1/4"	5/8"
SILL ANCHOR REQUIRMENTS TABLE					
OPENING TYPES (SUBSTRATE)(1)	MOUNTING BRACKETS FASTENERS	MINIMUM EMBED	THROUGH BOLT FASTENERS	MINIMUM EMBED	MINIMUM EDGE DISTANCE
(2) MIN. 2" LAYERS SUBFLOOR WITH SOLID RIM JOIST BELOW	N/A	N/A	1/4 in. x 3 in. Torx PowerLag T-Star Drive Washer Head Yellow Zinc Coated Lag Screw	2 3/4"	1"
4" MIN. CONCRETE SUBFLOOR	N/A	N/A	1/4 in. x 2-3/4 in. Hex-Washer-Head TAPCON Concrete Anchors by ITW Buildex	1 3/4"	1 1/2"
(1) SUBSTRATES SHALL MEET THE FOLLOWING REQUIREMENTS: 2X WOOD BUCKS SG = 0.55, CONCRETE MINIMUM COMPRESSIVE STRENGTH OF 2500 PS; 6.4. METAL STUD: STEEL 18 GA., FY= 33 KSI. (2) 3/8" LAG SCREW PILOT HOLE = 0.234" or DRILL SIZE "A"					



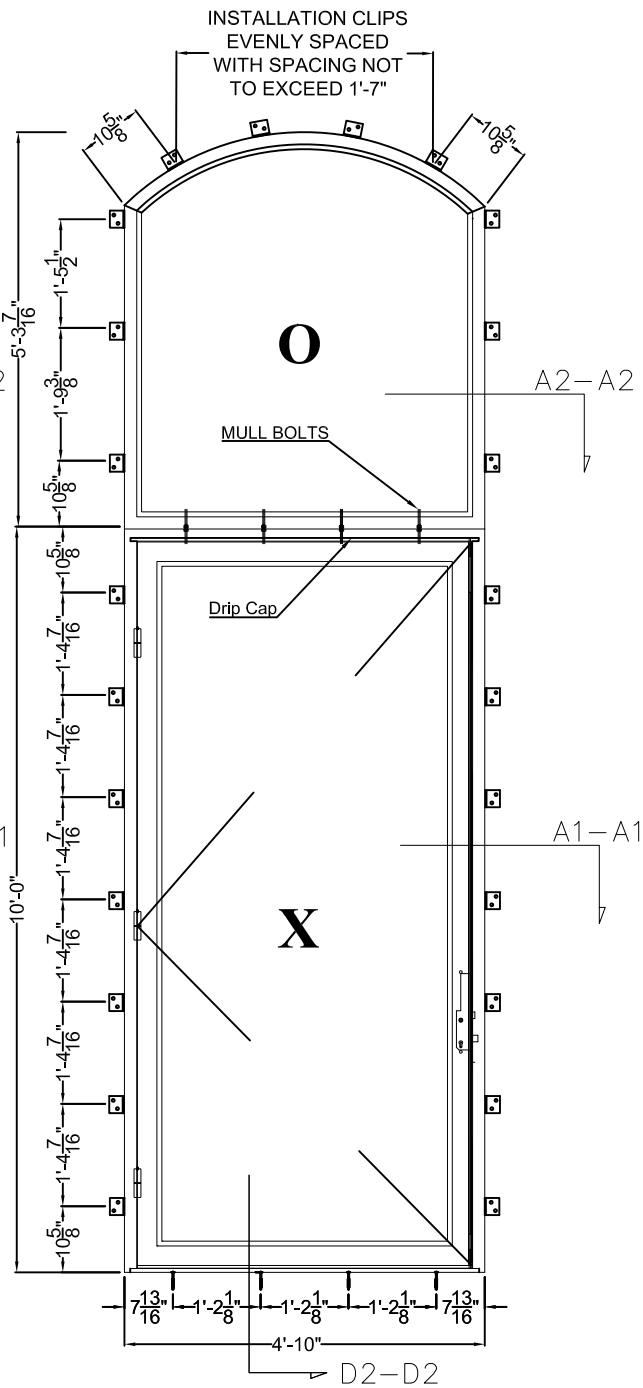
SINGLE X DOOR
RECTANGULAR



SINGLE X DOOR
EYEBROW



SINGLE X DOOR
W/TRANSOM
RECTANGULAR



SINGLE X DOOR
WITH TRANSOM
EYEBROW TRANSOM

CORNER CONSTRUCTION:
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SILL AND FRAME: BUTTED AND FULLY WELDED

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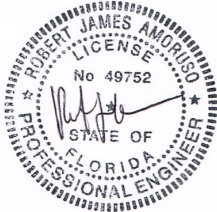
SEE SHEETS 12, 13 AND 14 FOR SECTION VIEWS. SEE SHEETS 15 AND 16 FOR SECTION VIEWS OF INSTALLATION DETAILS FOR STEEL ANCHOR CLIP AND THROUGH FRAME INSTALLATION

EXTERIOR ELEVATION
SWING OUT DOOR UNIT ASSEMBLIES
STEEL ANCHOR CLIP INSTALLATION



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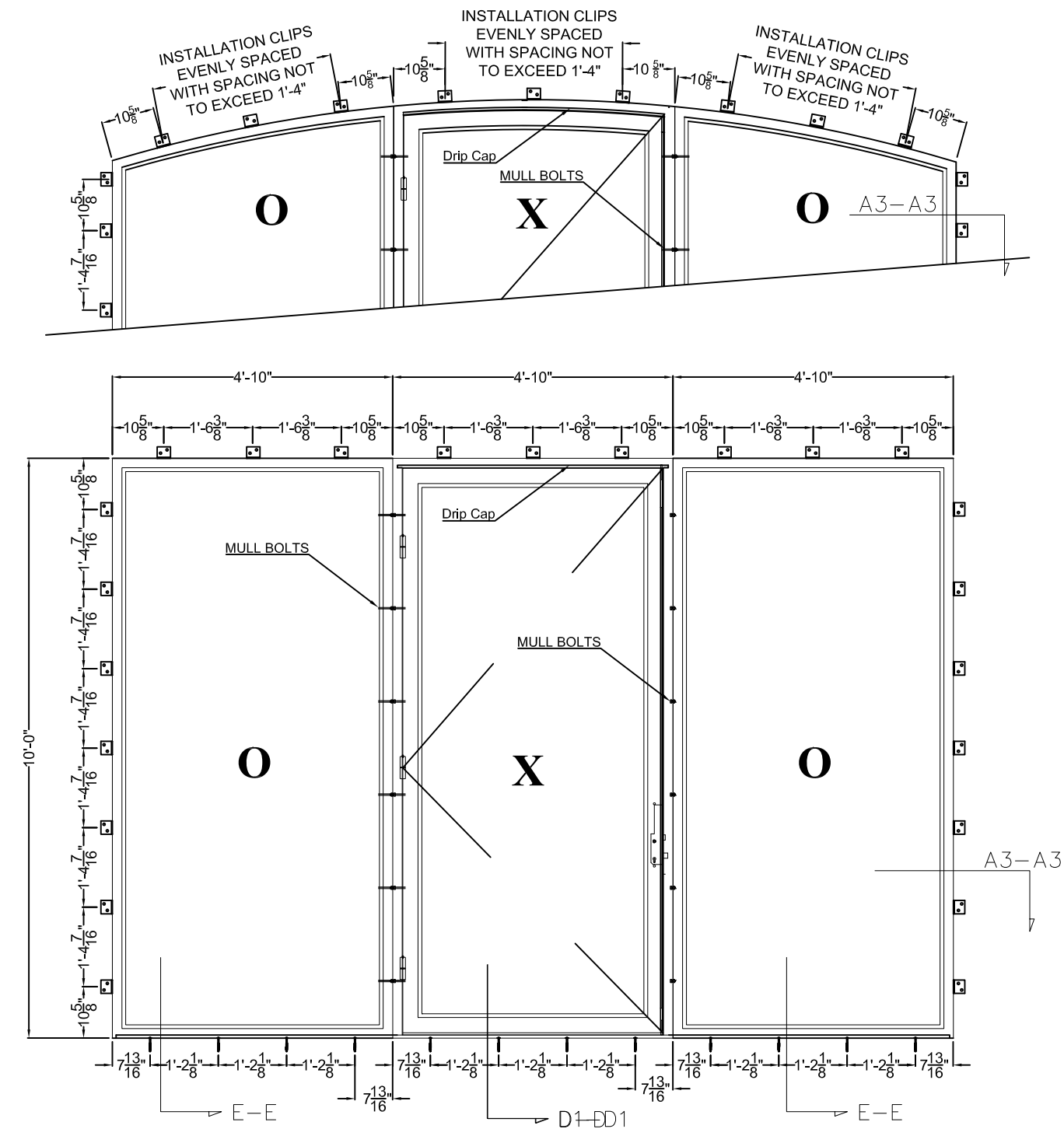
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SHEET 2 of 16

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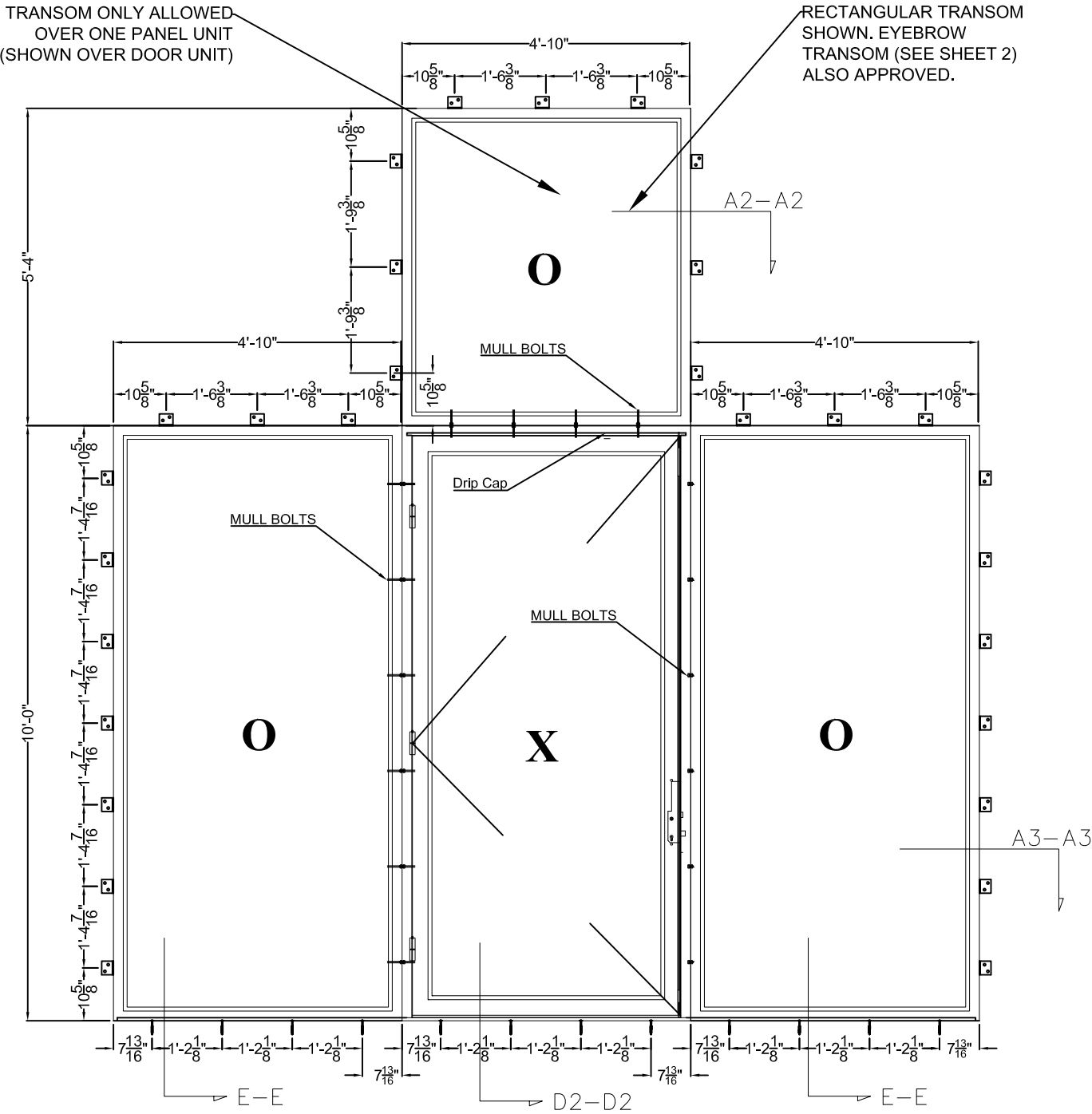


SINGLE OXO DOOR W/SIDELIGHTS
(OXO SHOWN, OX AND XO APPROVED)
(EYEBROW OPTION SHOWN ABOVE)

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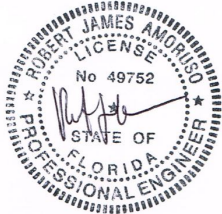
SINGLE O/OXO DOOR W/SIDELIGHTS & TRANSOM
(O/OXO SHOWN, O/OX AND O/XO APPROVED)
(TRANSOM CAN BE OVER DOOR UNIT OR EITHER SIDELIGHT UNIT BUT NOT OVER DOOR + SIDELIGHT OR SIDELIGHT + SIDELIGHT)

EXTERIOR ELEVATION
SWING OUT DOOR UNIT ASSEMBLIES
STEEL ANCHOR CLIP INSTALLATION



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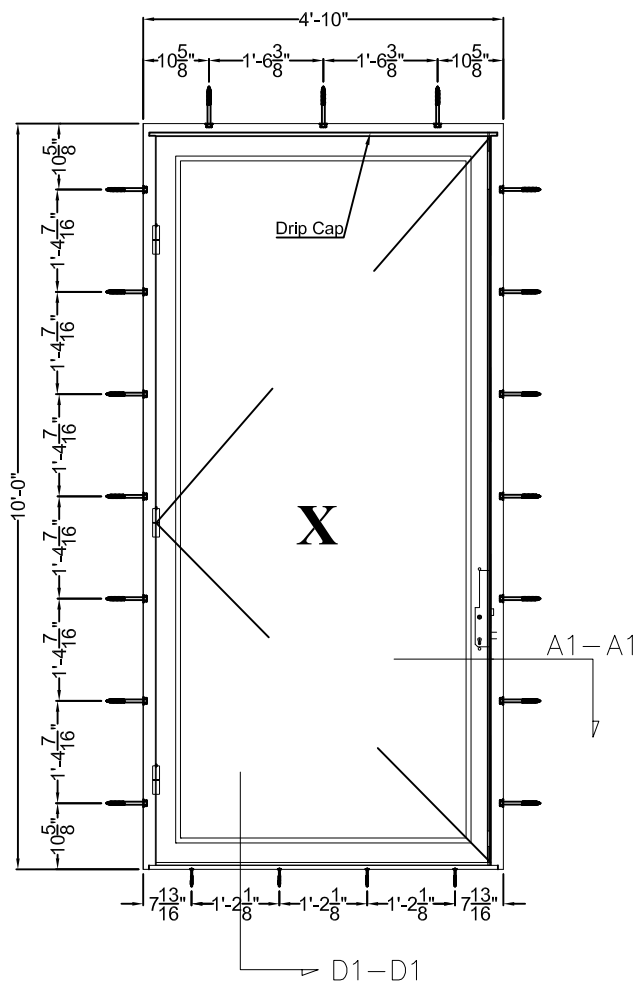
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SHEET 3 of 16

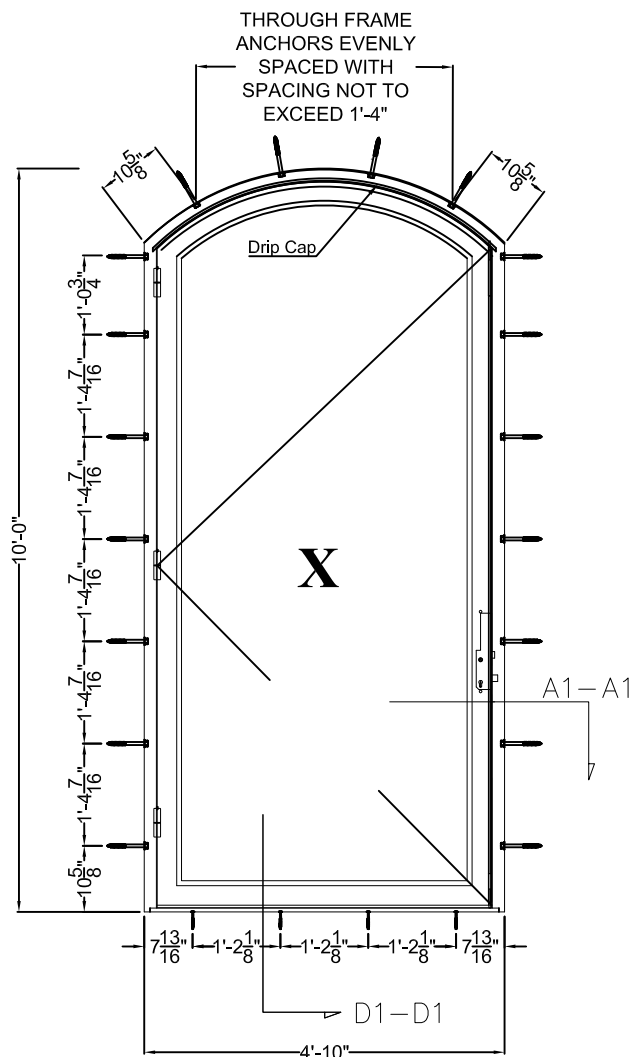
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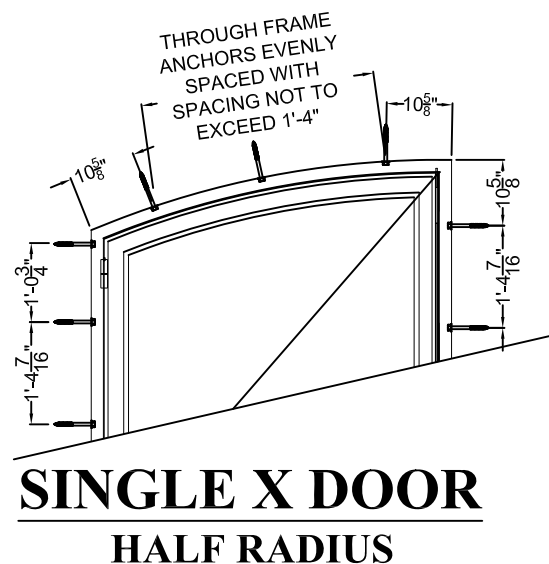
**SINGLE X DOOR
RECTANGULAR**

CORNER CONSTRUCTION:
FRAME & PANELS: BUTTED AND FULLY WELDED
SILL AND FRAME: BUTTED AND FULLY WELDED

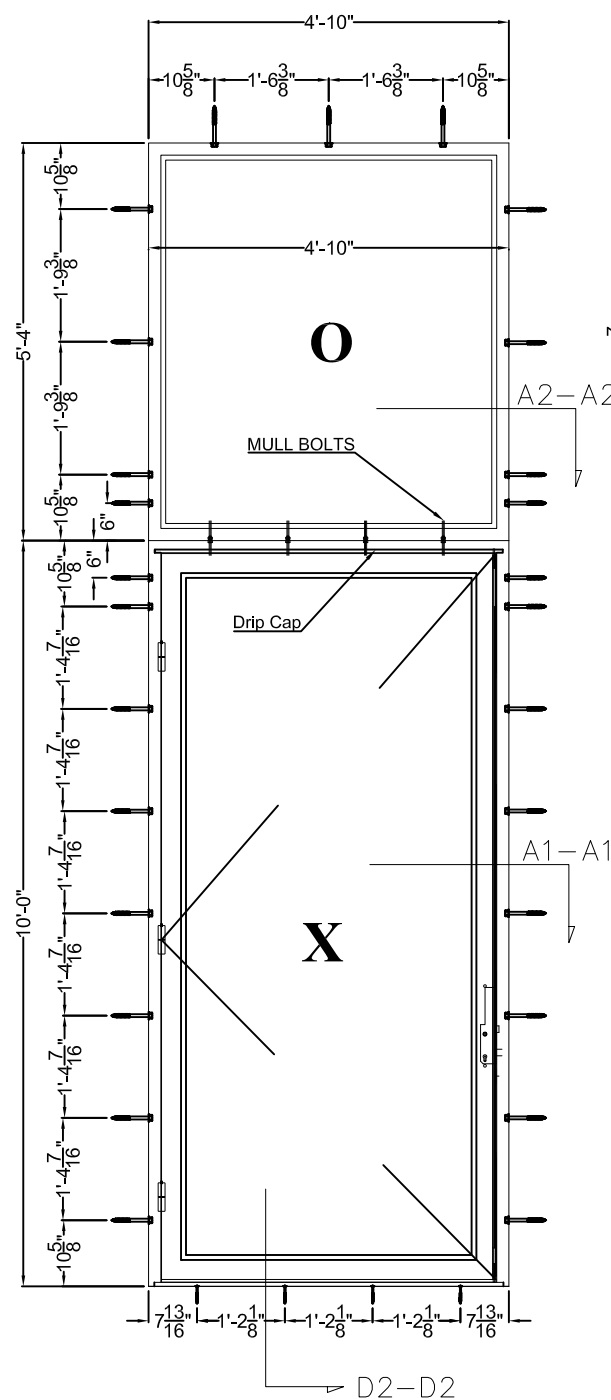
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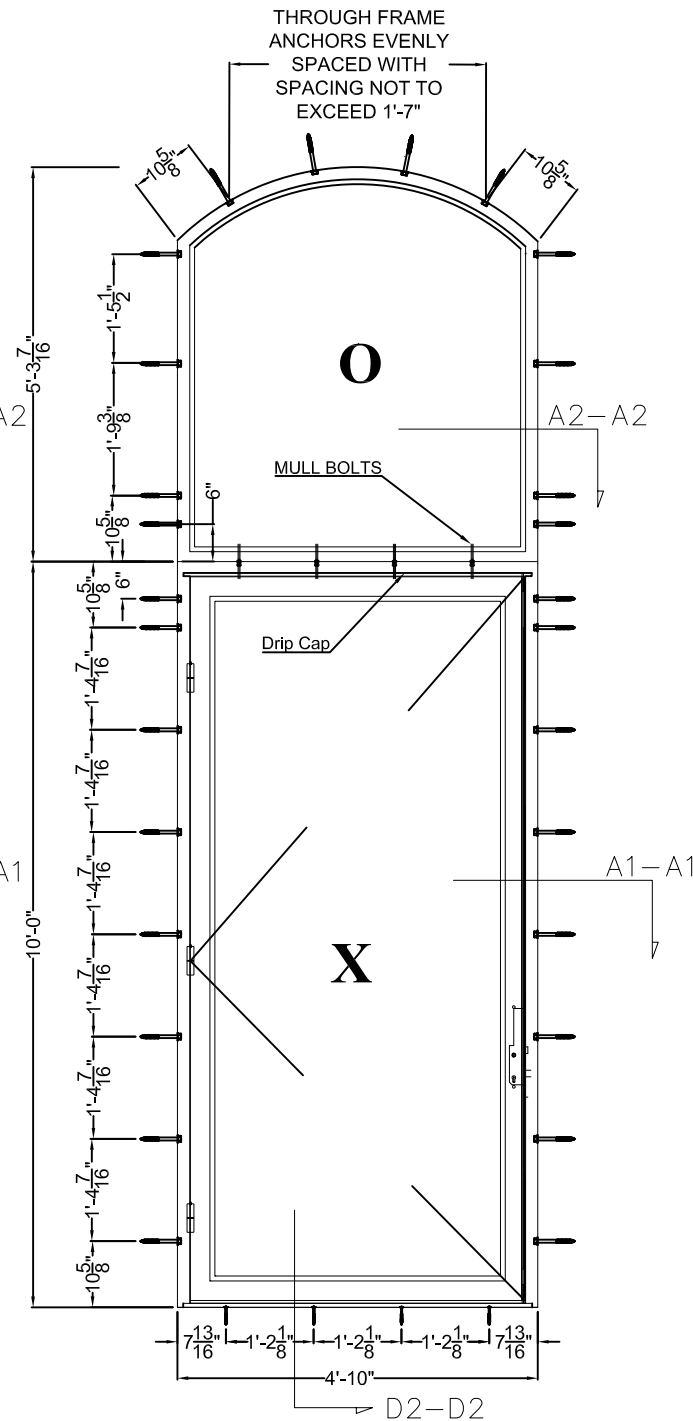
**SINGLE X DOOR
EYEBROW**



**SINGLE X DOOR
HALF RADIUS**



**SINGLE X DOOR
W/TRANSOM
RECTANGULAR**



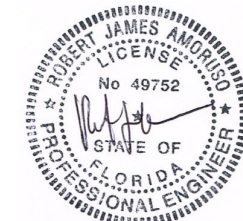
**SINGLE X DOOR
WITH TRANSOM
EYEBROW TRANSOM**

**EXTERIOR ELEVATION
SWING OUT DOOR UNIT ASSEMBLIES
THROUGH FRAME INSTALLATION**



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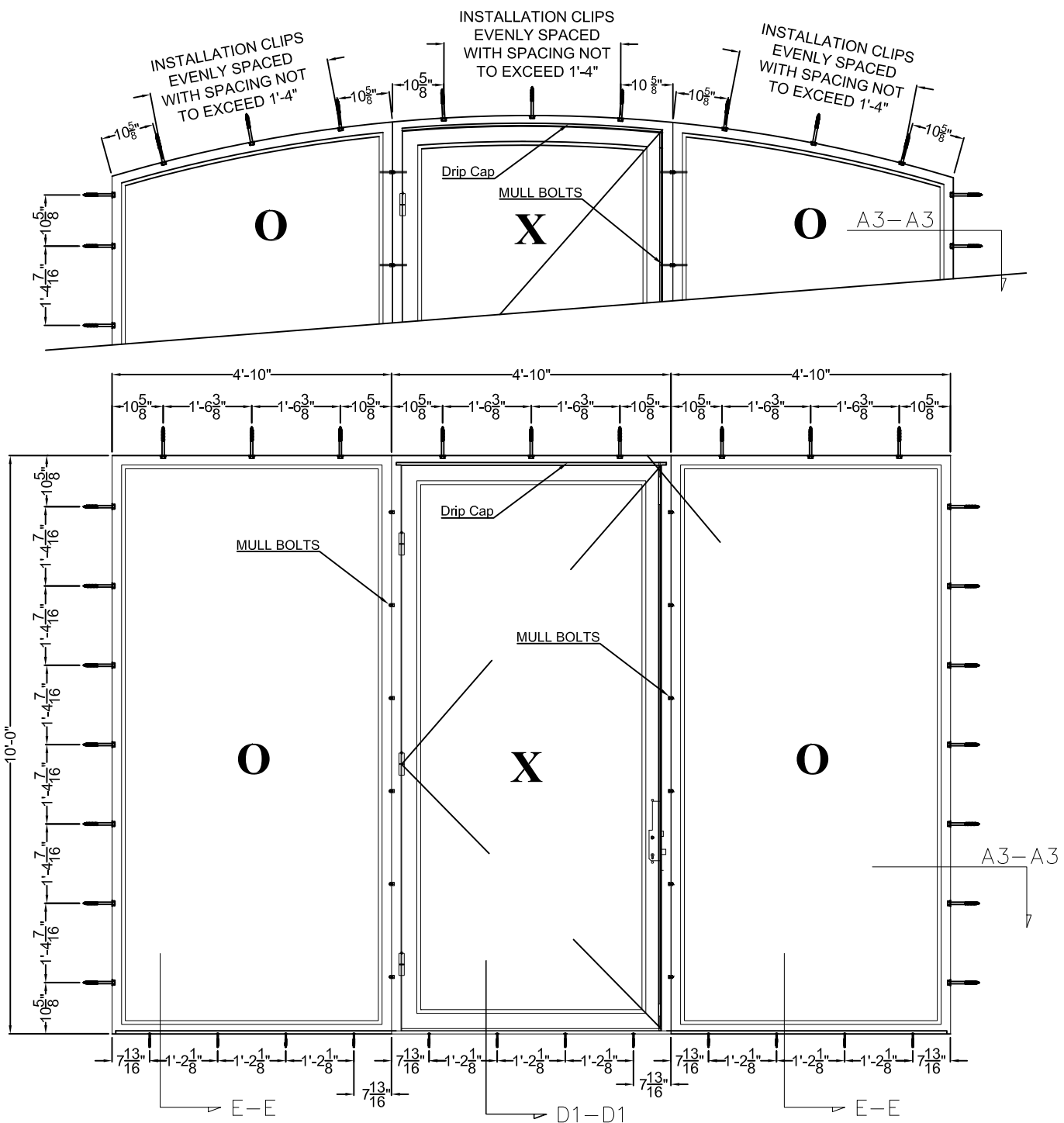


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DATED: 2/9/2024
SHEET 4 of 16

REVISIONS			
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SEE SHEETS 12, 13 AND 14 FOR SECTION VIEWS. SEE SHEETS 15 AND 16 FOR SECTION VIEWS OF INSTALLATION DETAILS FOR STEEL ANCHOR CLIP AND THROUGH FRAME INSTALLATION

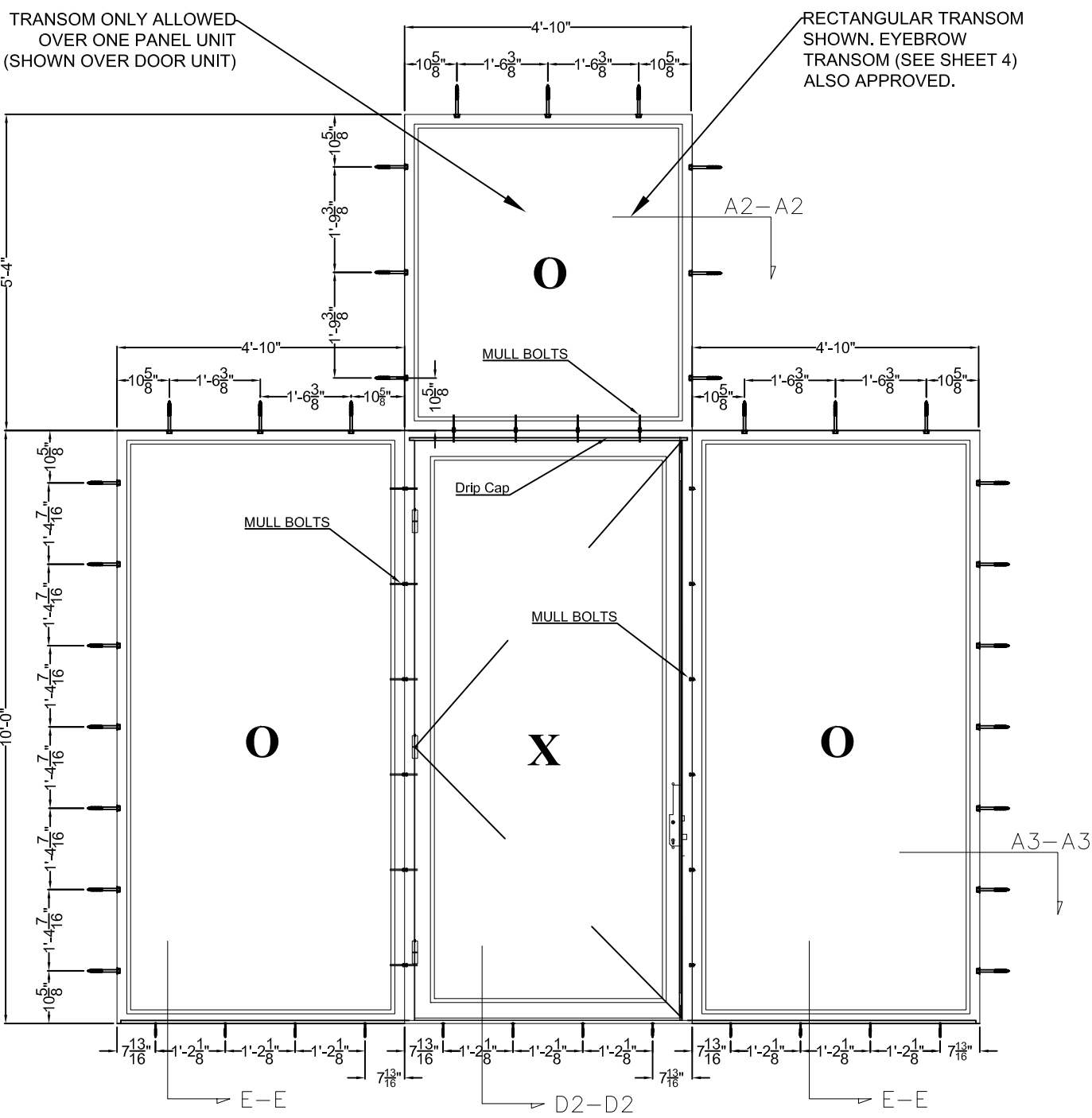


SINGLE OXO DOOR W/SIDELIGHTS
(OXO SHOWN, OX AND XO APPROVED)
(EYEBROW OPTION SHOWN ABOVE)

CORNER CONSTRUCTION:
FRAME & PANELS: BUTTED AND FULLY WELDED
SILL AND FRAME: BUTTED AND FULLY WELDED

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EXTERIOR ELEVATION
SWING OUT DOOR UNIT ASSEMBLIES
THROUGH FRAME INSTALLATION

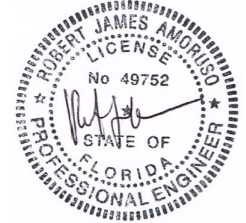
doors

THE FRENCH STEEL COMPANY

windows

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SEE SHEETS 12, 13 AND 14 FOR
SECTION VIEWS. SEE SHEETS 15 AND
16 FOR SECTION VIEWS OF
INSTALLATION DETAILS FOR STEEL
ANCHOR CLIP AND THROUGH
FRAME INSTALLATION

EXTERIOR ELEVATION SWING IN DOOR UNIT ASSEMBLIES STEEL ANCHOR CLIP INSTALLATION

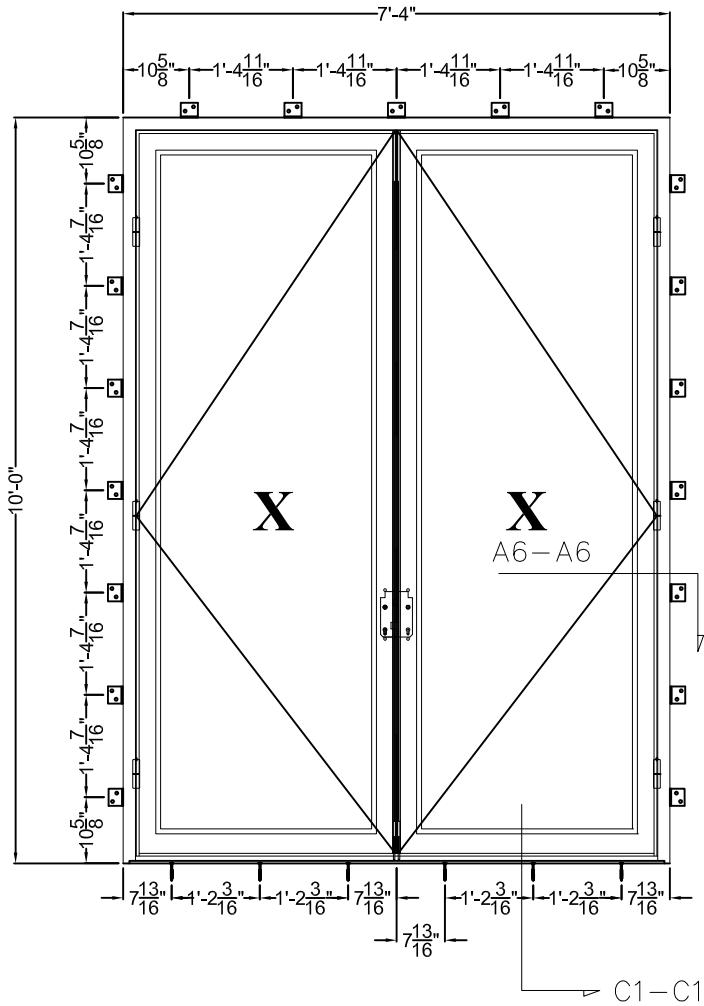


A circular professional engineer seal for Robert James Amoroso. The outer ring contains the text "ROBERT JAMES AMOROSO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the word "LICENSE" at the top, "No 49752" in the center, "STATE OF" below the number, and "FLORIDA" at the bottom. A handwritten signature is written across the center of the seal.

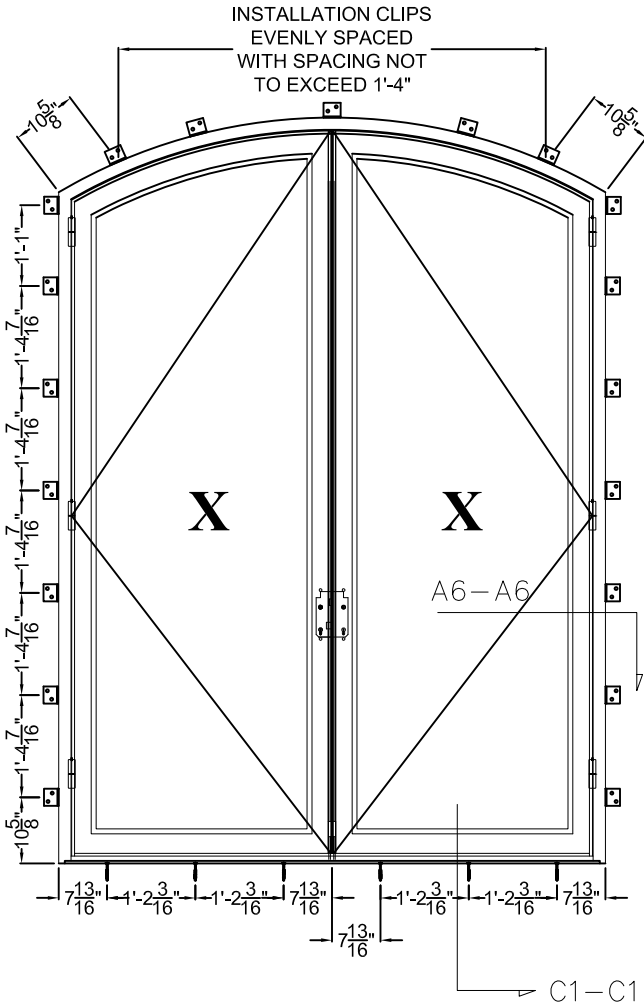
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Robert J Amoruso[®]
Date: 2024.02.15
16:52:59 -05'00'

DRAWING NO. FSC0001
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SHEET 6 of 16

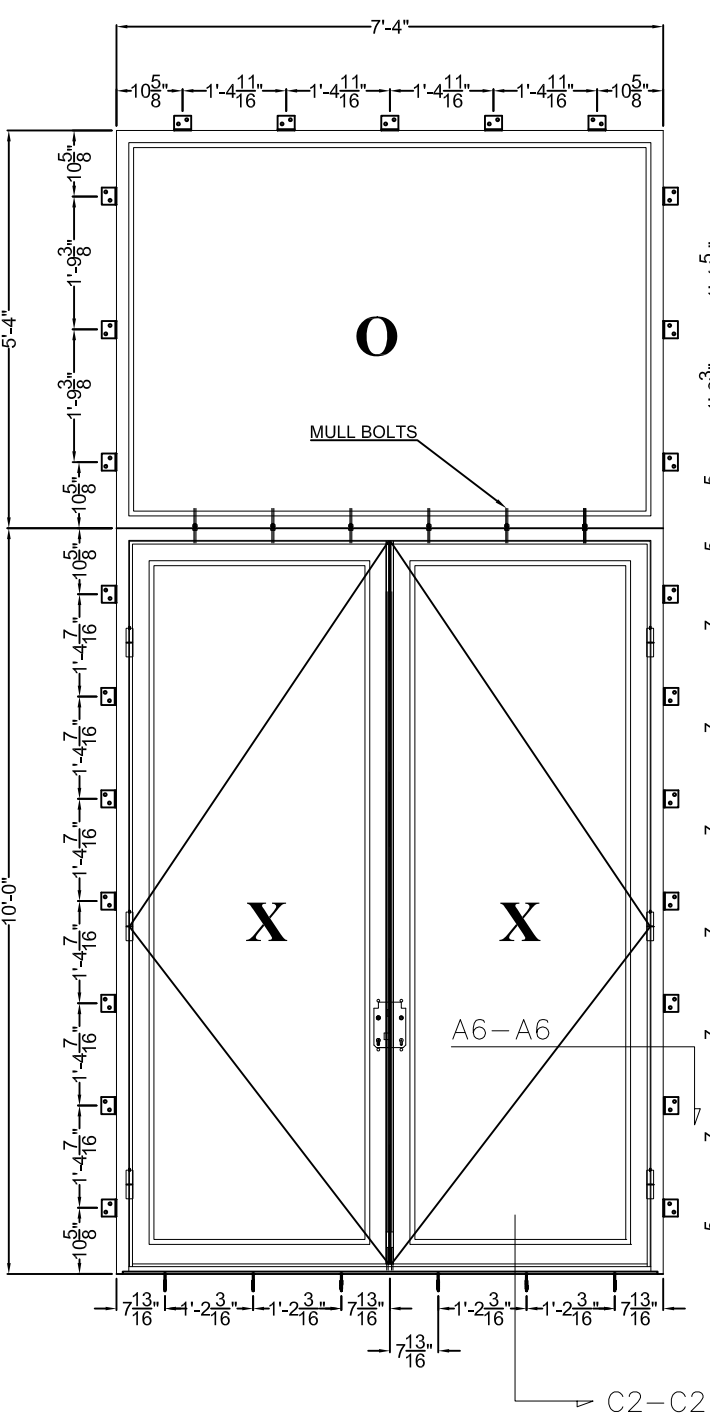
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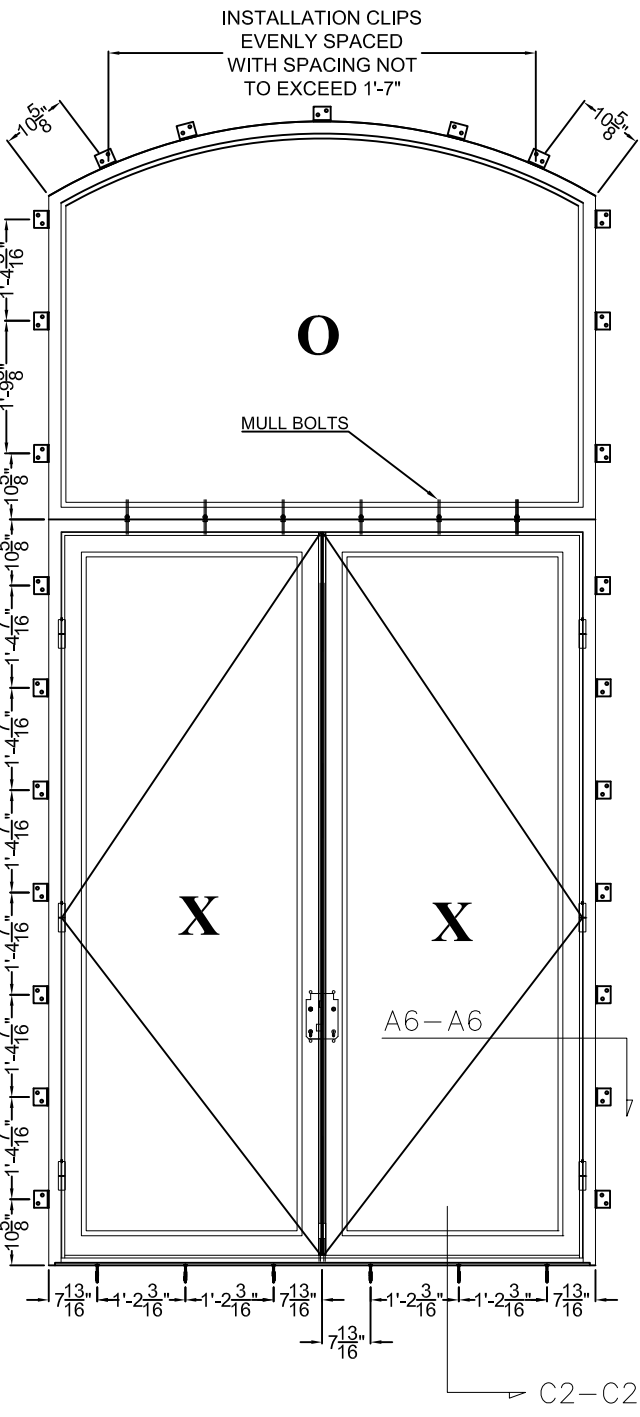
DOUBLE XX DOOR
RECTANGULAR



DOUBLE XX DOOR
EYEBROW



DOUBLE XX DOOR
W/TRANSOM
RECTANGULAR



DOUBLE XX DOOR
WITH TRANSOM
EYEBROW TRANSOM

CORNER CONSTRUCTION:
FRAME & PANELS: BUTTED AND FULLY WELDED
SILL AND FRAME: BUTTED AND FULLY WELDED

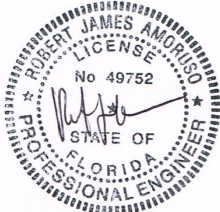
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SEE SHEETS 12, 13 AND 14 FOR
SECTION VIEWS. SEE SHEETS 15 AND
16 FOR SECTION VIEWS OF
INSTALLATION DETAILS FOR STEEL
ANCHOR CLIP AND THROUGH
FRAME INSTALLATION



THE FRENCH STEEL COMPANY
1303 LOGAN CIRCLE NW
ATLANTA, GA 30318
PHONE: 404-748-9281
EMAIL: Tom@frenchsteel.com
EMAIL: Kevin@frenchsteel.com

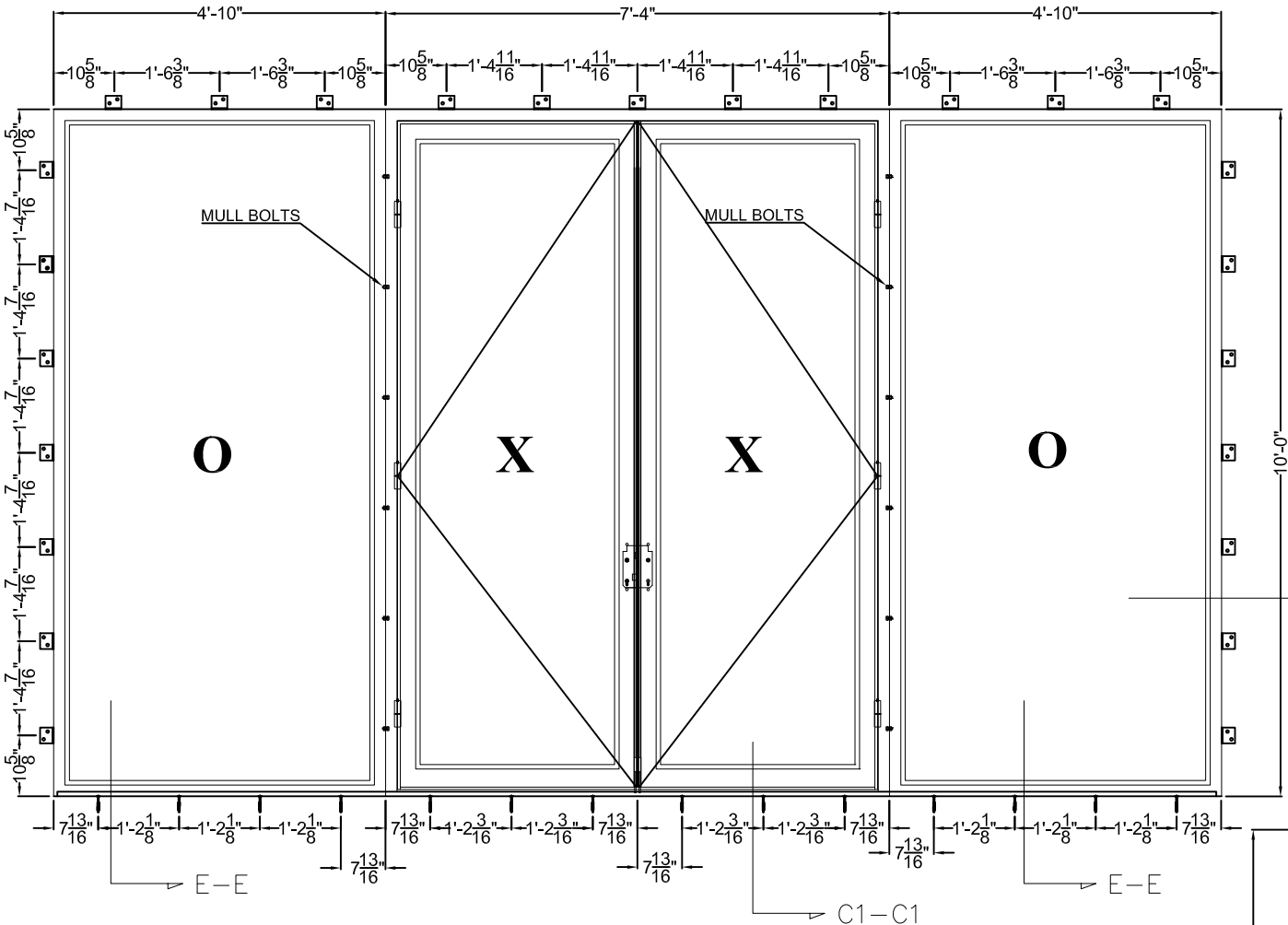
ROBERT J. AMORUSO, P.E.
FL PE LICENSE NO. 49752
226 N. NOVA RD., #142
ORMOND BEACH, FL 32174-5124
RJAENGPE@GMAIL.COM



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Robert J Amoruso
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16:53:13 -05'00'

DRAWING NO. FSC0001
REVISION A
DATED: 2/9/2024
SHEET 7 of 16

REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	UPDATE TO 2023 FBC	RJA	2/9/24



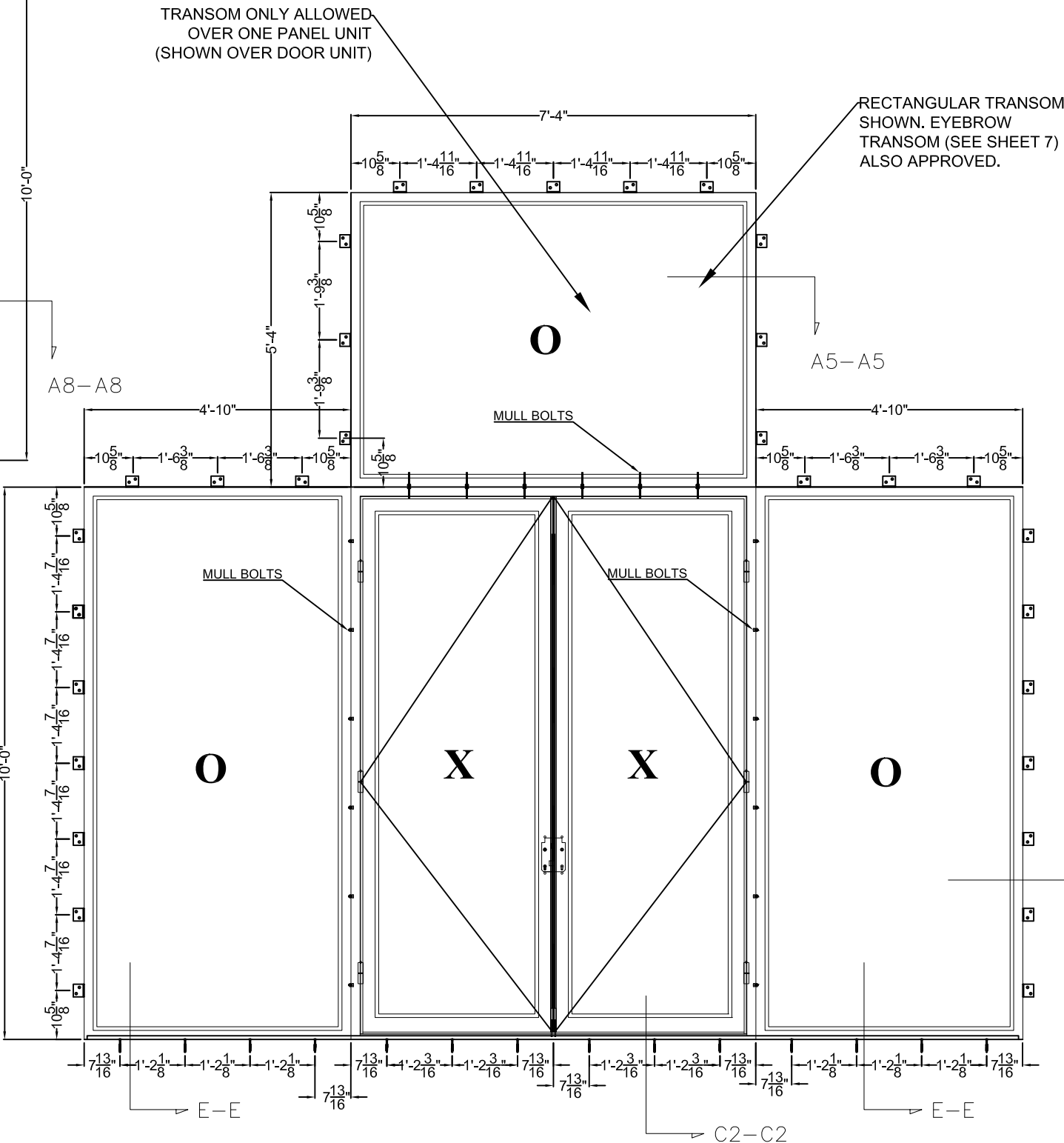
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(OXXO SHOWN, OXO, OX AND XO APPROVED)

CORNER CONSTRUCTION:
FRAME & PANELS: BUTTED AND FULLY WELDED
SILL AND FRAME: BUTTED AND FULLY WELDED

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EXTERIOR ELEVATION
SWING IN DOOR UNIT ASSEMBLIES
STEEL ANCHOR CLIP INSTALLATION

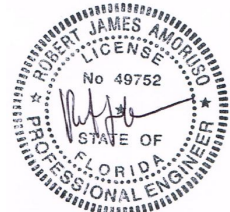


SINGLE OXXO DOOR W/SIDELIGHTS & TRANSOM
(O/OXXO SHOWN, OXO, O/OXO, O/OX AND O/XO APPROVED)
(TRANSOM CAN BE OVER DOOR UNIT OR EITHER
SIDELIGHT UNIT BUT NOT OVER DOOR + SIDELIGHT OR SIDELIGHT + SIDELIGHT)

doors
THE
FRENCH STEEL
COMPANY
windows

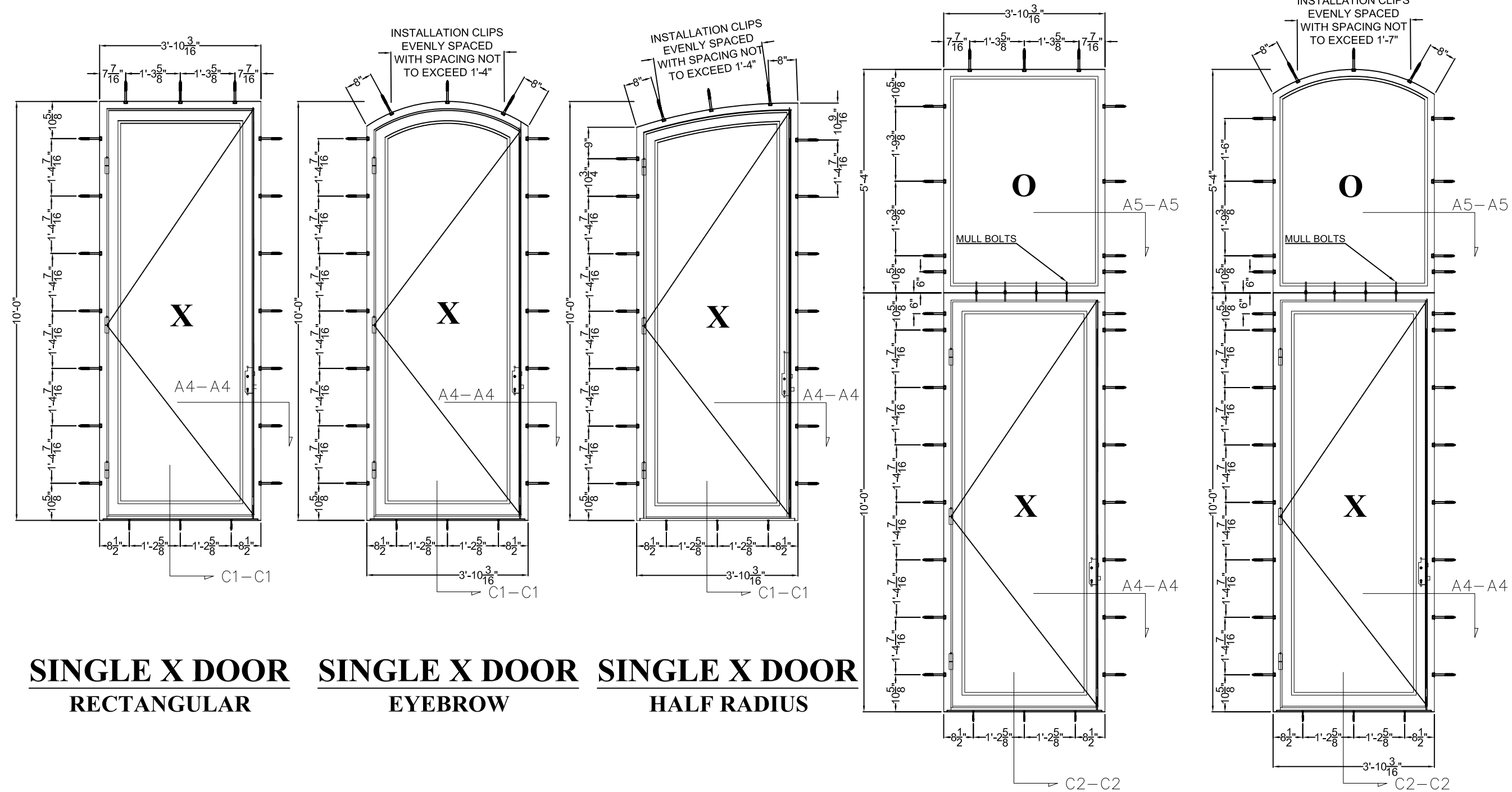
THE FRENCH STEEL COMPANY
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ATLANTA, GA 30318
PHONE: 404-748-9281
EMAIL: Tom@frenchsteel.com
EMAIL: Kevin@frenchsteel.com

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REVISION A			
DATED: 2/9/2024			
SHEET 8 of 16			
REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	UPDATE TO 2023 FBC	RJA	2/9/24



SINGLE X DOOR
RECTANGULAR

SINGLE X DOOR
EYEBROW

SINGLE X DOOR
HALF RADIUS

SINGLE X DOOR
W/TRANSOM
RECTANGULAR

SINGLE X DOOR
WITH TRANSOM
EYEBROW TRANSOM

CORNER CONSTRUCTION:
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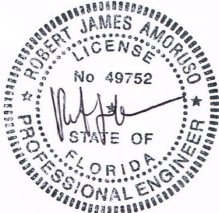
SEE SHEETS 12, 13 AND 14 FOR SECTION VIEWS. SEE SHEETS 15 AND 16 FOR SECTION VIEWS OF INSTALLATION DETAILS FOR STEEL ANCHOR CLIP AND THROUGH FRAME INSTALLATION

EXTERIOR ELEVATION
SWING IN DOOR UNIT ASSEMBLIES
THROUGH FRAME INSTALLATION



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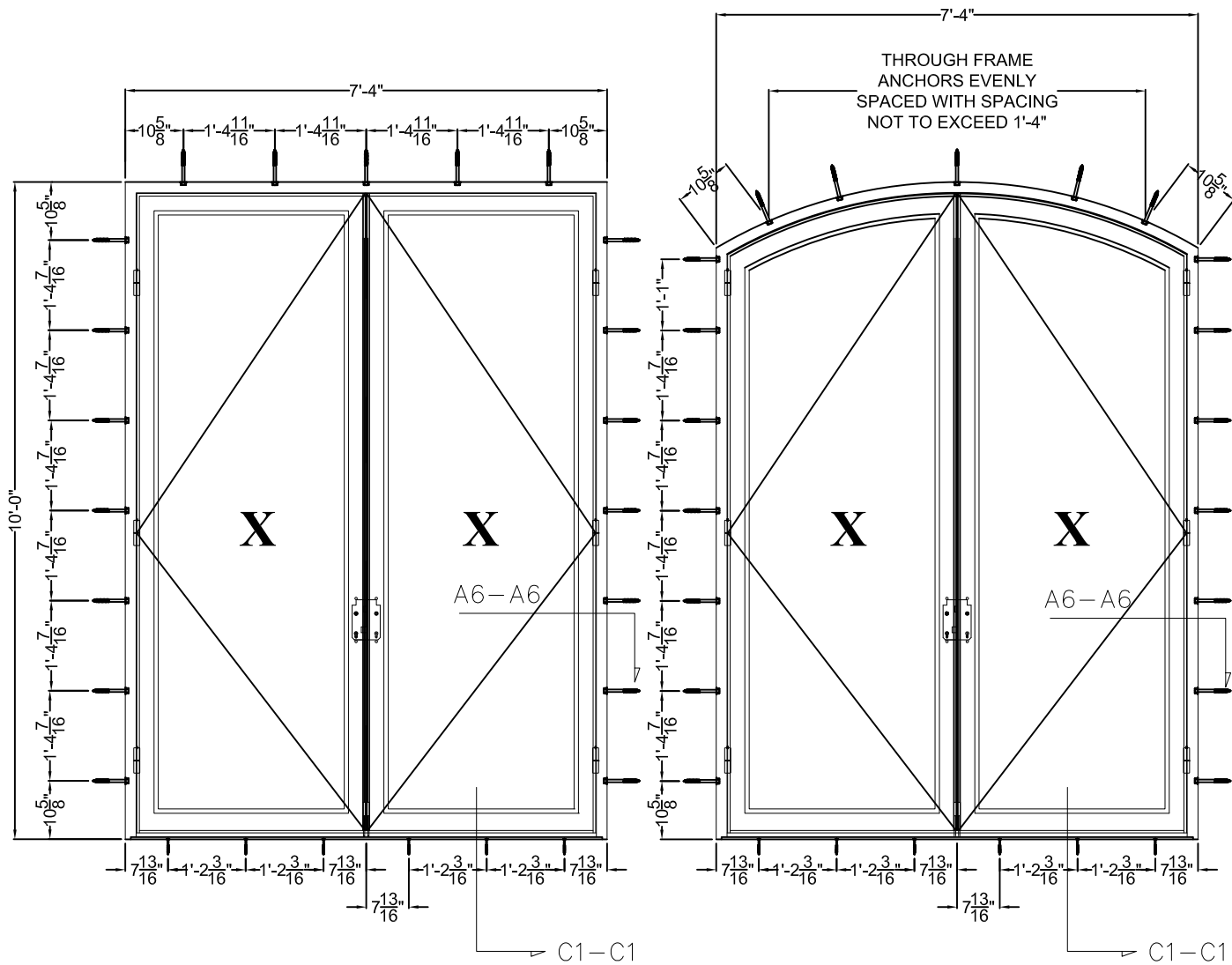
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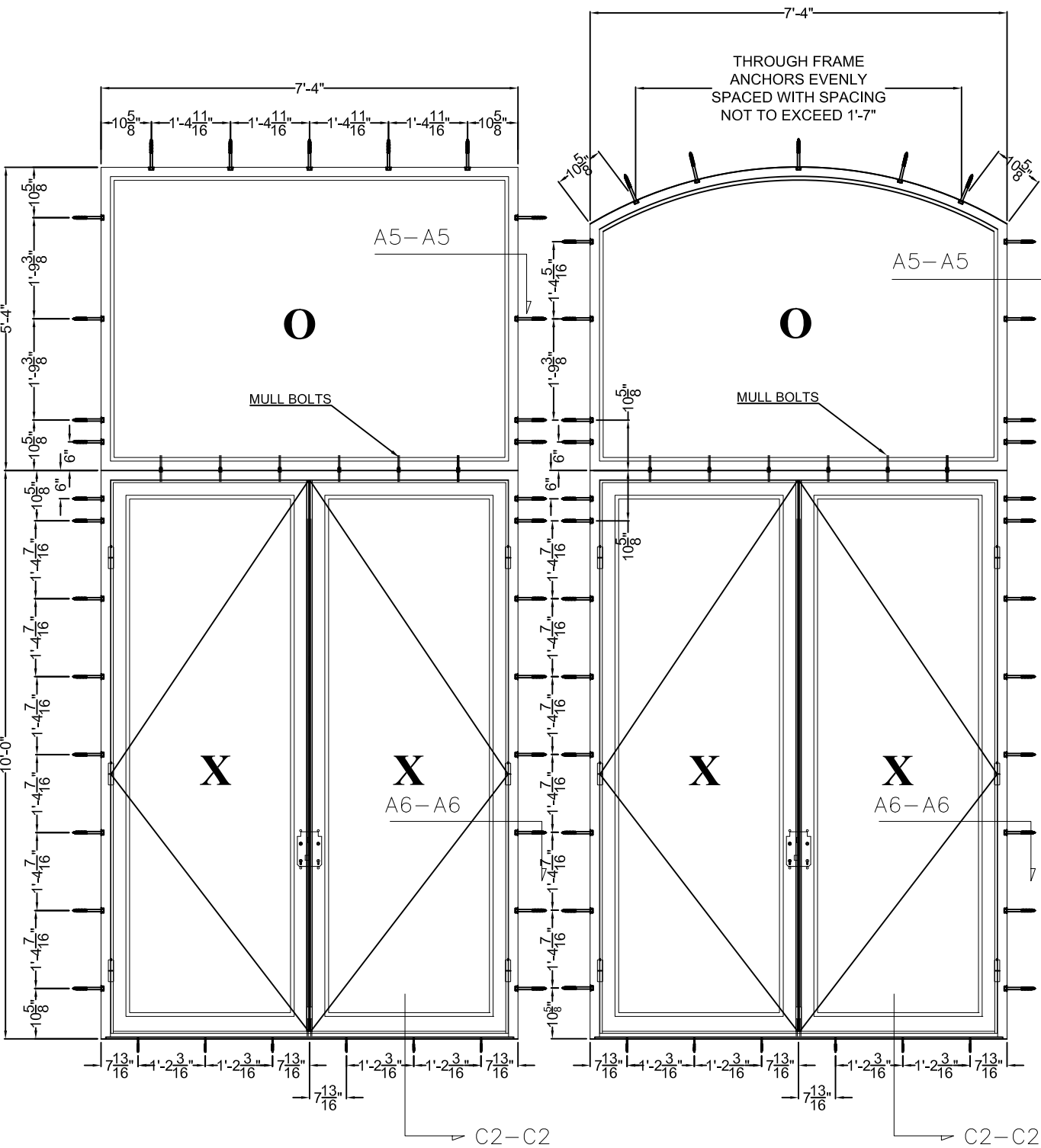
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DATED: 2/9/2024
SHEET 9 of 16

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REV.	DESCRIPTION	BY	DATE
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DOUBLE XX DOOR
RECTANGULAR

DOUBLE XX DOOR
EYEBROW



DOUBLE XX DOOR
W/TRANSOM
RECTANGULAR

DOUBLE XX DOOR
WITH TRANSOM
EYEBROW TRANSOM

EXTERIOR ELEVATION
SWING IN DOOR UNIT ASSEMBLIES
THROUGH FRAME INSTALLATION

CORNER CONSTRUCTION:
FRAME & PANELS: BUTTED AND FULLY WELDED
SILL AND FRAME: BUTTED AND FULLY WELDED

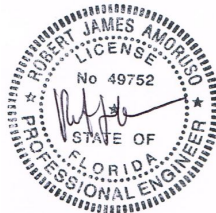
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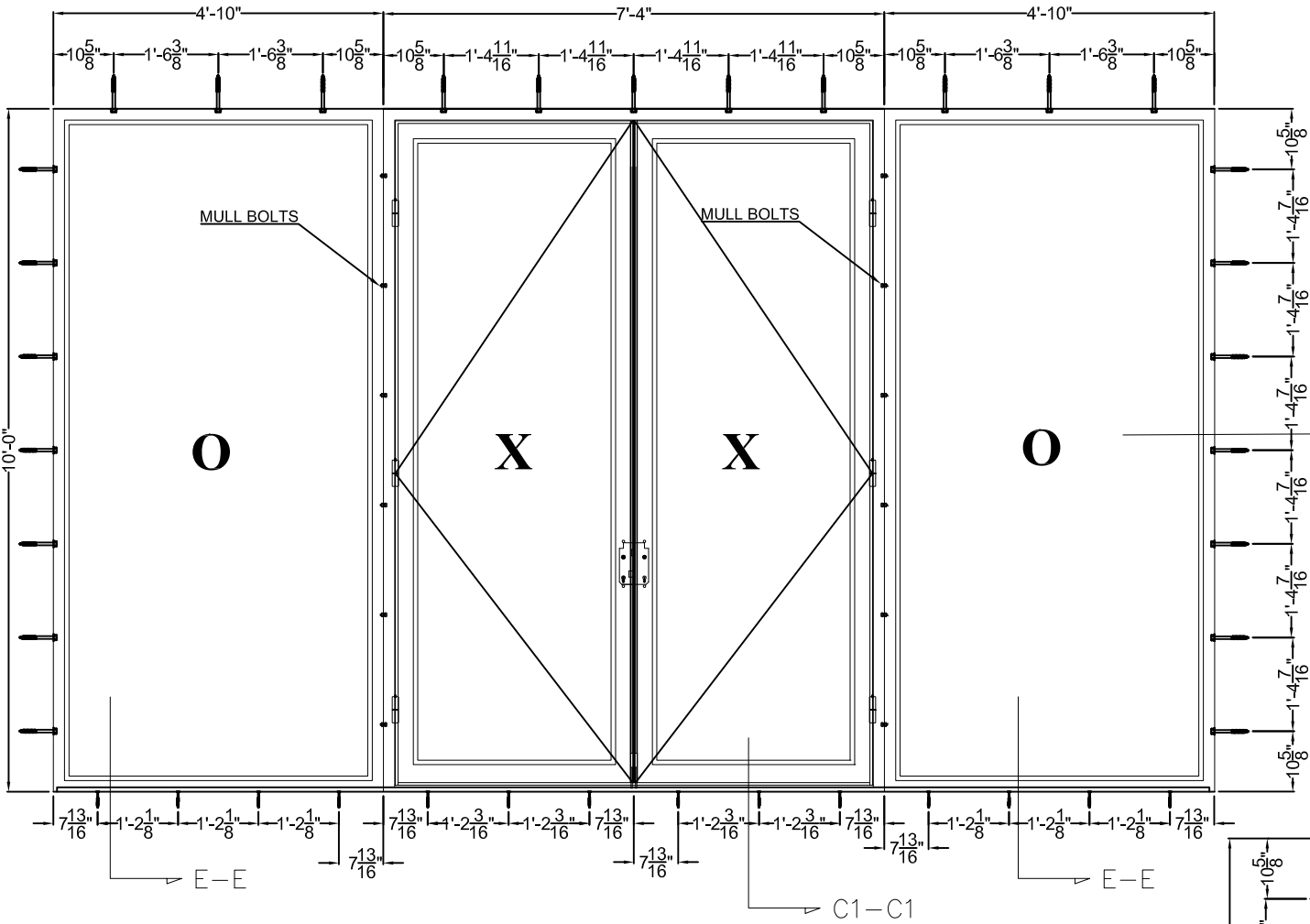
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SHEET 10 of 16

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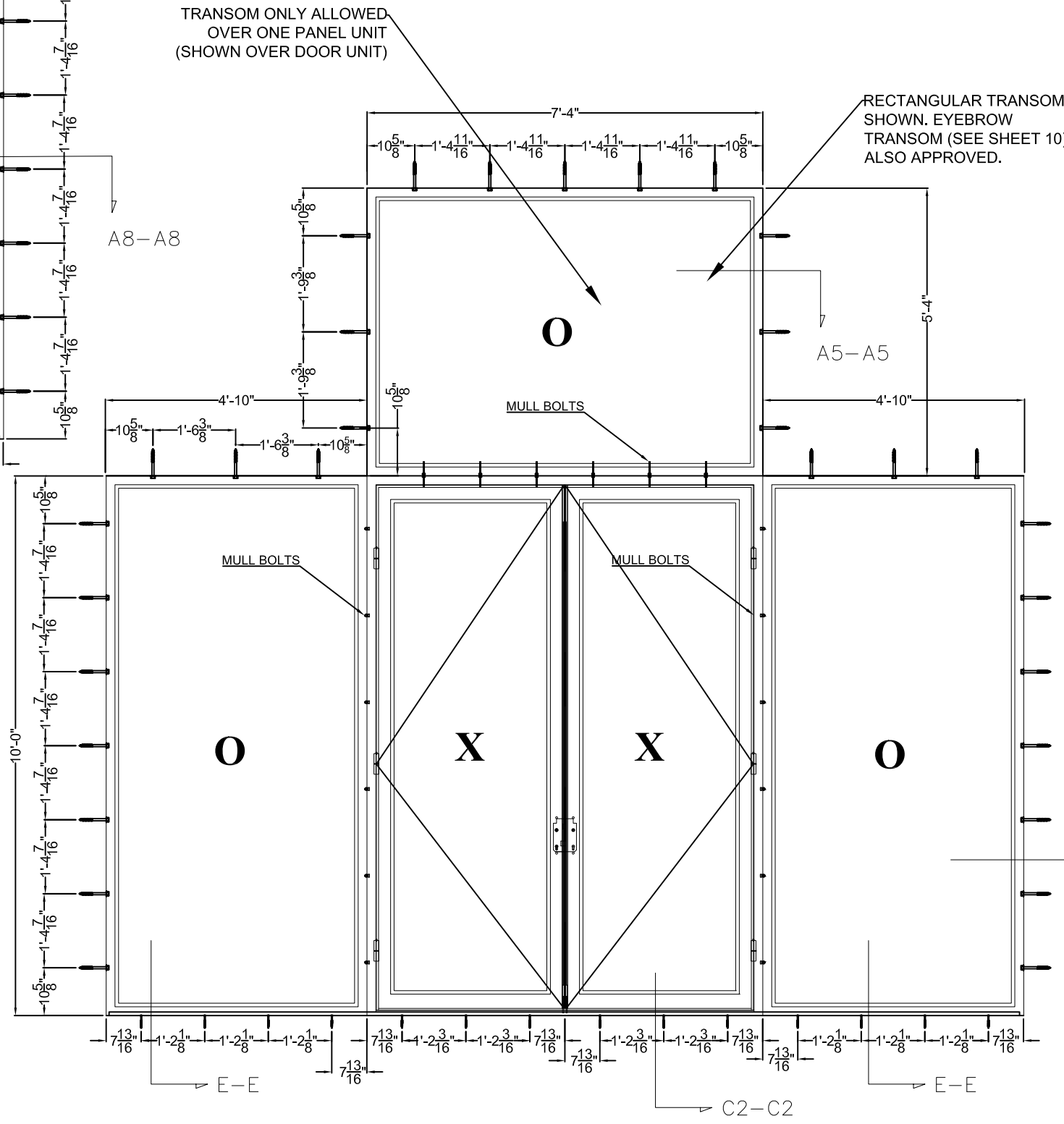
SINGLE OXXO DOOR W/SIDELIGHTS
(OXXO SHOWN, OXO, OX AND XO APPROVED)

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SILL AND FRAME: BUTTED AND FULLY WELDED

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EXTERIOR ELEVATION
SWING IN DOOR UNIT ASSEMBLIES
THROUGH FRAME INSTALLATION

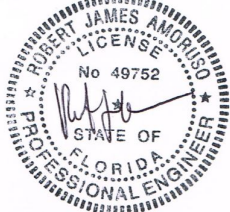


SINGLE OXXO DOOR W/SIDELIGHTS & TRANSOM
(O/OXXO SHOWN, OXO, O/OXO, O/OX AND O/XO APPROVED)
(TRANSOM CAN BE OVER DOOR UNIT OR EITHER
SIDELIGHT UNIT BUT NOT OVER DOOR + SIDELIGHT OR SIDELIGHT + SIDELIGHT)

doors
THE
FRENCH STEEL
C O M P A N Y
windows

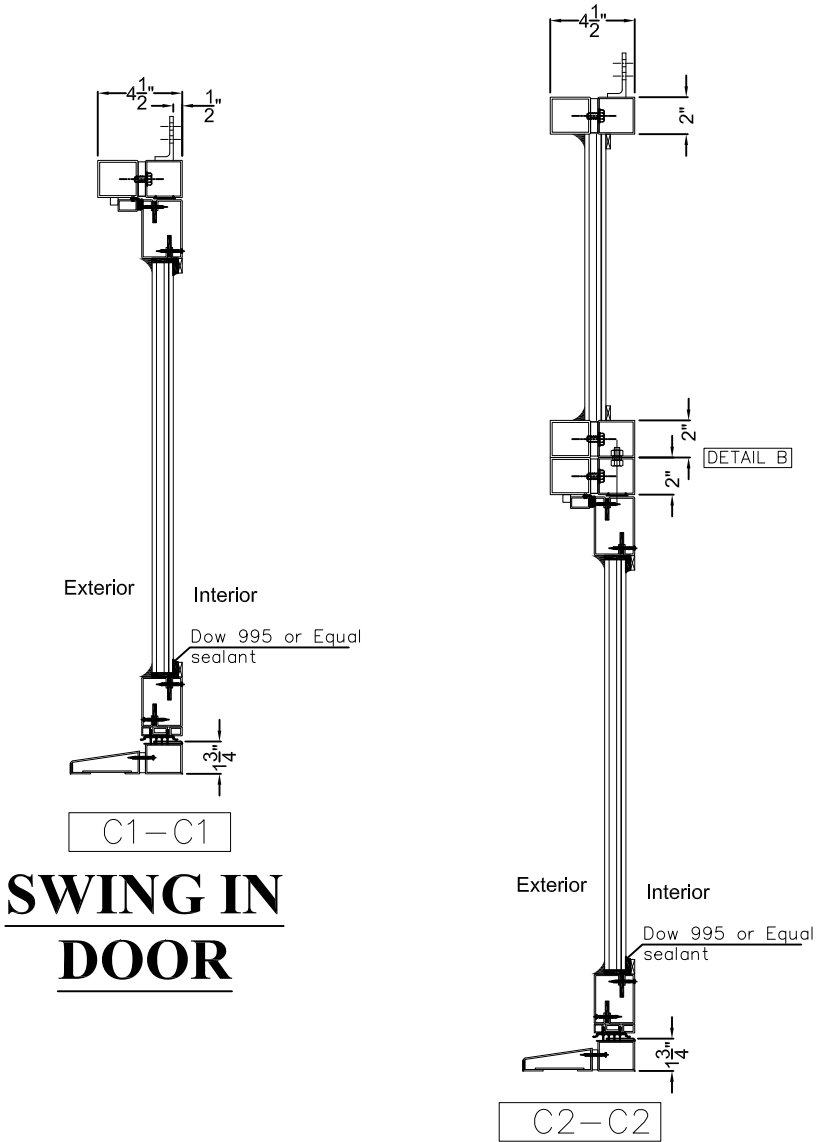
THE FRENCH STEEL COMPANY
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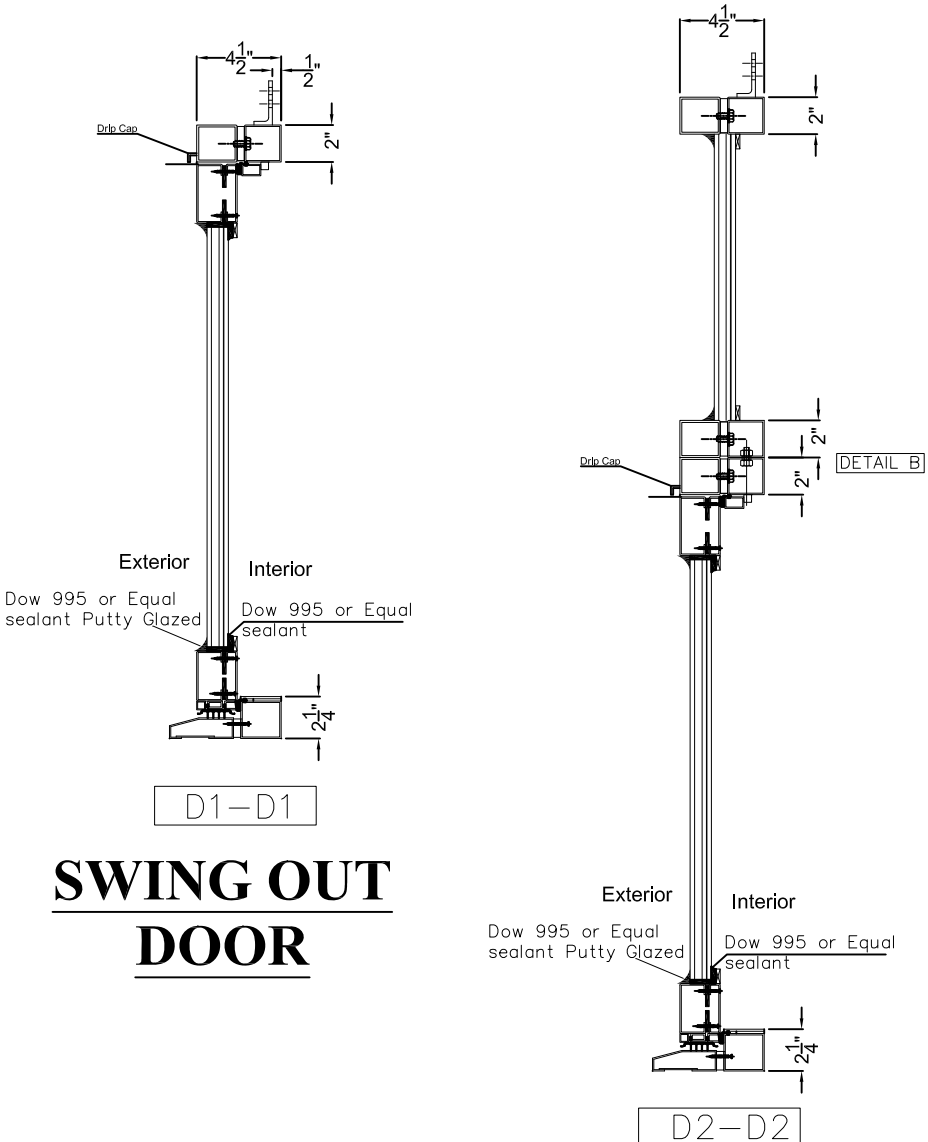
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DATED: 2/9/2024			
SHEET 11 OF 16			
REVISIONS			
REV.	DESCRIPTION	BY	DATE
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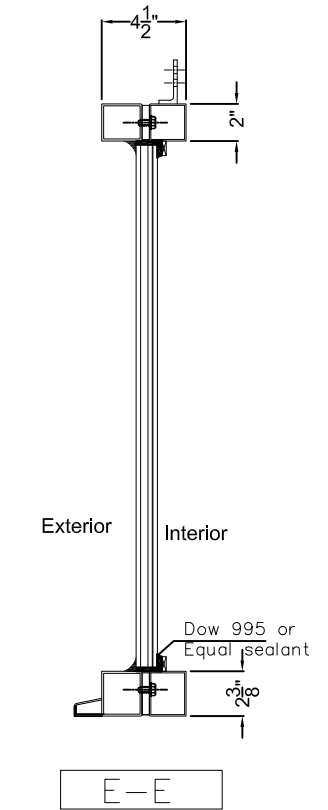
SWING IN
DOOR

SWING IN DOOR W/
TRANSOM

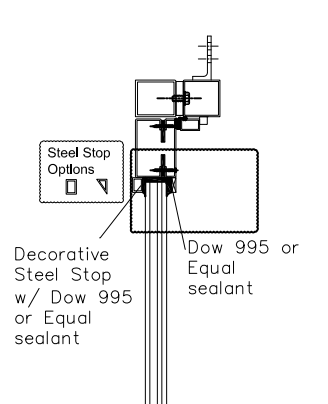


SWING OUT
DOOR

SWING OUT
DOOR W/
TRANSOM



SIDELIGHT

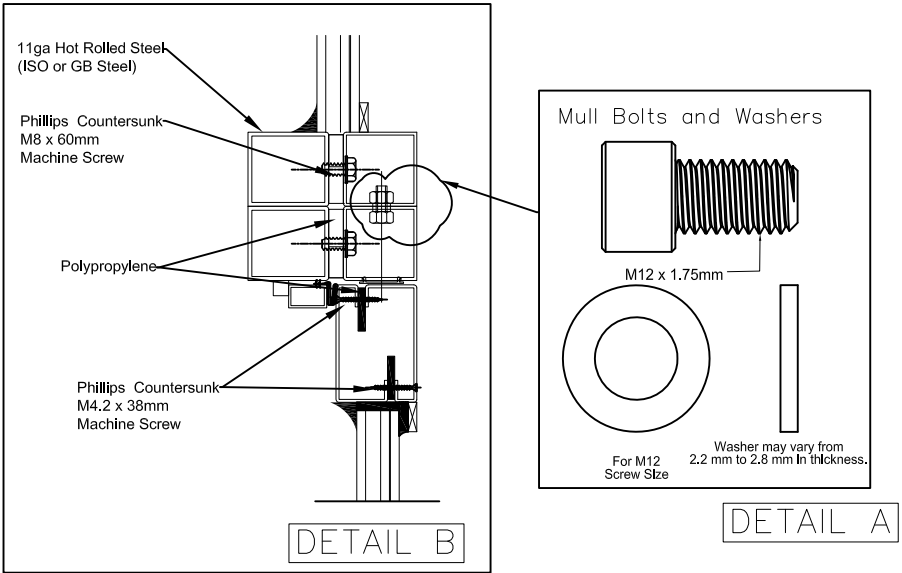


GLAZING DETAIL A
1/4" (6mm) TEMP / 3/8" (10mm) air space /
1/4" (6mm) Heat Strengthened / 0.090" Kuraray America, Inc. SG Interlayer / 1/4" (6mm) Heat Strengthened (IGU SPACER: RAMAPO ALUMINUM SPACER)

ALL SETTING BLOCKS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER.

MULL BOLT SPACING

1. VERTICAL COMBINATION MULLIONS BETWEEN SIDELIGHTS AND DOORS.
 - 1.1. QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - 1.1.1. SIX (6) TOTAL ANCHORS FOR 120" VERTICAL COMBINATION MULLIONS.
 - 1.1.2. FOR SHORTER HEIGHTS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - 1.2. EDGE DISTANCE SHALL BE 12" MAXIMUM.
 - 1.3. ON CENTER SPACING SHALL BE 20" MAXIMUM.
2. HORIZONTAL COMBINATION MULLIONS BETWEEN TRANSOM AND DOOR.
 - 2.1. UP TO 4'-10" WIDE COMBINATION MULLION
 - 2.1.1. QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - 2.1.1.1. FOUR (4) TOTAL ANCHORS FOR 4'-10" WIDE COMBINATION MULLIONS.
 - 2.1.1.2. FOR SHORTER WIDTHS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - 2.1.2. EDGE DISTANCE SHALL BE 10" MAXIMUM.
 - 2.2. GREATER THAN 4'-10" UP TO 7'-4" WIDE COMBINATION MULLION
 - 2.2.1. QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - 2.2.1.1. SIX (6) TOTAL ANCHORS FOR 7'-4" WIDE COMBINATION MULLIONS.
 - 2.2.1.2. FOR SHORTER WIDTHS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - 2.2.2. EDGE DISTANCE SHALL BE 13" MAXIMUM.
 - 2.2.3. ON CENTER SPACING SHALL BE 12'-1/2" MAXIMUM.



CORNER CONSTRUCTION:
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SILL AND FRAME: BUTTED AND FULLY WELDED

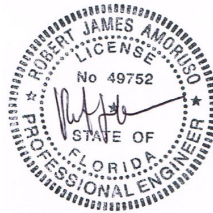
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SWING IN & SWING OUT DOOR
ASSEMBLY VERTICAL SECTION VIEWS
STEEL ANCHOR CLIP INSTALLATION SHOWN
(THROUGH FRAME INSTALLATION SAME EXCEPT THROUGH FRAME ANCHORS REPLACE STEEL CLIPS)



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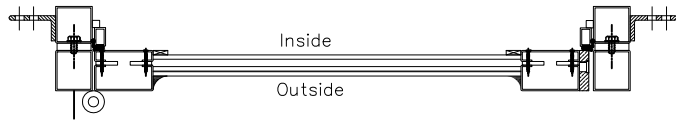
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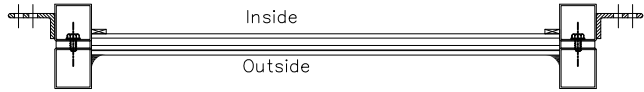
DRAWING NO. FSC0001
REVISION A
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SHEET 12 of 16

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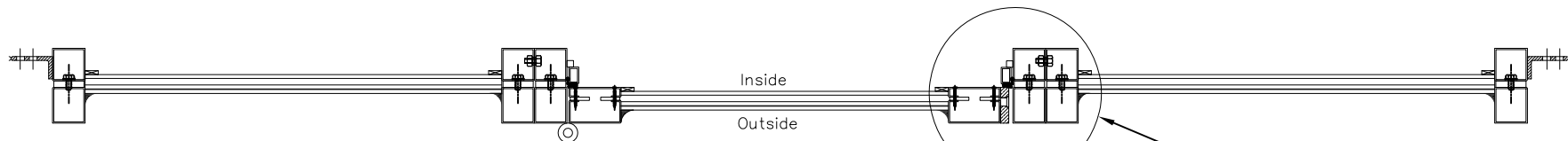
A1-A1

SINGLE X SWING OUT DOOR



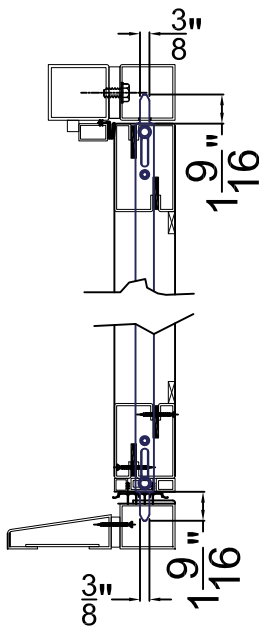
A2-A2

SINGLE TRANSOM



A3-A3

SINGLE X SWING OUT DOOR W/SIDELIGHTS



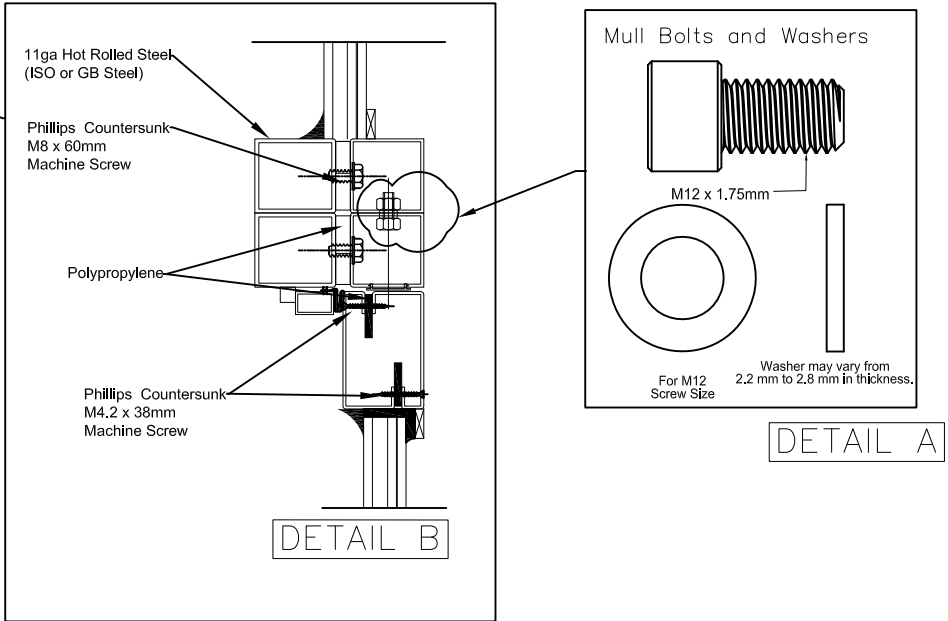
AMESBURY P3000 MULTI-POINT
SHOOT BOLT AT HEAD AND SILL

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MULL BOLT SPACING

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 - QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - SIX (6) TOTAL ANCHORS FOR 120" VERTICAL COMBINATION MULLIONS.
 - FOR SHORTER HEIGHTS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - EDGE DISTANCE SHALL BE 12" MAXIMUM.
 - ON CENTER SPACING SHALL BE 20" MAXIMUM.
- HORIZONTAL COMBINATION MULLIONS BETWEEN TRANSOM AND DOOR.
 - UP TO 4'-10" WIDE COMBINATION MULLION
 - QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - FOUR (4) TOTAL ANCHORS FOR 4'-10" WIDE COMBINATION MULLIONS.
 - FOR SHORTER WIDTHS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - EDGE DISTANCE SHALL BE 10" MAXIMUM.
 - ON CENTER SPACING SHALL BE 12-3/4" MAXIMUM.
 - GREATER THAN 4'-10" UP TO 7'-4" WIDE COMBINATION MULLION
 - QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - SIX (6) TOTAL ANCHORS FOR 7'-4" WIDE COMBINATION MULLIONS.
 - FOR SHORTER WIDTHS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - EDGE DISTANCE SHALL BE 13" MAXIMUM.
 - ON CENTER SPACING SHALL BE 12-1/2" MAXIMUM.

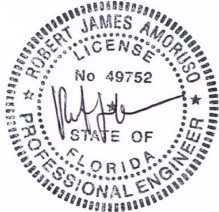


SWING OUT DOOR ASSEMBLY
HORIZONTAL SECTION VIEWS
STEEL ANCHOR CLIP INSTALLATION SHOWN
(THROUGH FRAME INSTALLATION SAME EXCEPT THROUGH FRAME ANCHORS
REPLACE STEEL CLIPS)



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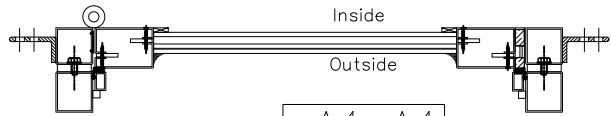
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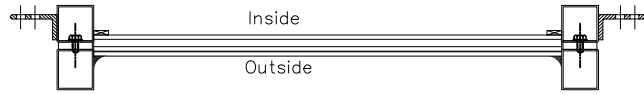
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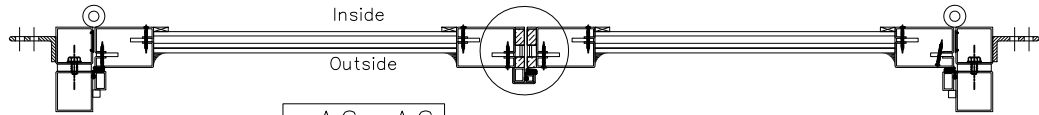
A4-A4

SINGLE X SWING IN DOOR



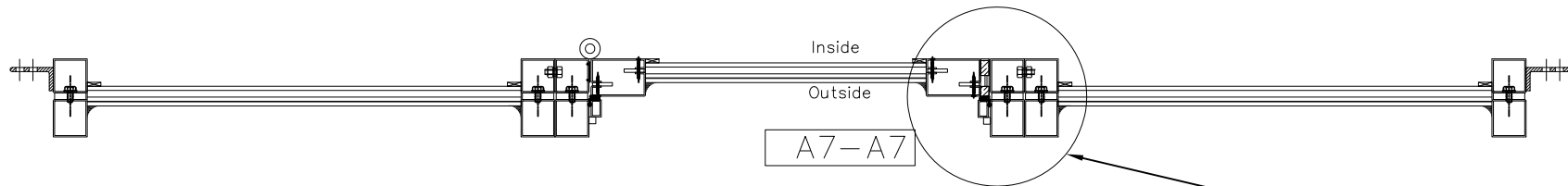
A5-A5

SINGLE TRANSOM



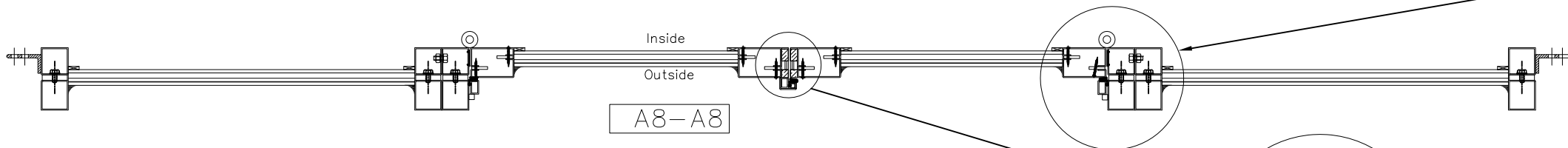
A6-A6

DOUBLE XX SWING IN DOOR



A7-A7

SINGLE X SWING IN DOOR W/SIDELIGHTS

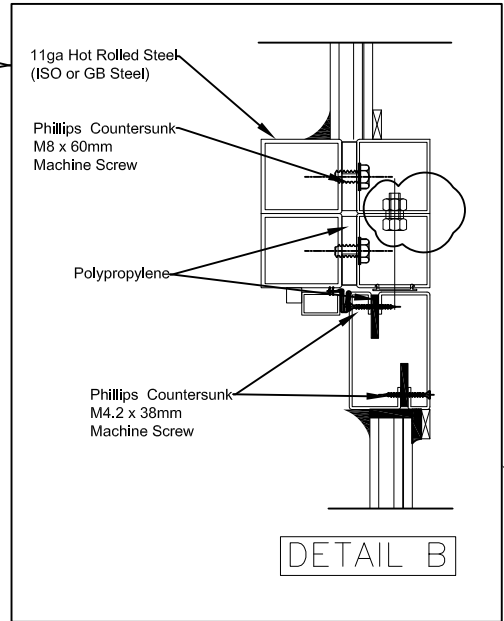


A8-A8

DOUBLE XX SWING IN DOOR W/SIDELIGHTS

MULL BOLT SPACING

- VERTICAL COMBINATION MULLIONS BETWEEN SIDELIGHTS AND DOORS.
 - QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - SIX (6) TOTAL ANCHORS FOR 120" VERTICAL COMBINATION MULLIONS.
 - FOR SHORTER HEIGHTS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - EDGE DISTANCE SHALL BE 12" MAXIMUM.
 - ON CENTER SPACING SHALL BE 20" MAXIMUM.
- HORIZONTAL COMBINATION MULLIONS BETWEEN TRANSOM AND DOOR.
 - UP TO 4'-10" WIDE COMBINATION MULLION
 - QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - FOUR (4) TOTAL ANCHORS FOR 4'-10" WIDE COMBINATION MULLIONS.
 - FOR SHORTER WIDTHS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - EDGE DISTANCE SHALL BE 10" MAXIMUM.
 - ON CENTER SPACING SHALL BE 12-3/4" MAXIMUM.
 - GREATER THAN 4'-10" UP TO 7'-4" WIDE COMBINATION MULLION
 - QUANTITIES SHALL BE AS SHOWN IN THE ELEVATION VIEWS.
 - SIX (6) TOTAL ANCHORS FOR 7'-4" WIDE COMBINATION MULLIONS.
 - FOR SHORTER WIDTHS, MULLION BOLTS CAN BE REDUCED WHILE MAINTAINING SPACING.
 - EDGE DISTANCE SHALL BE 13" MAXIMUM.
 - ON CENTER SPACING SHALL BE 12-1/2" MAXIMUM.

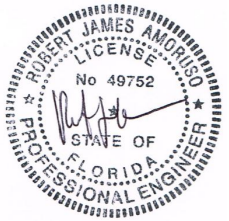


DETAIL B



THE FRENCH STEEL COMPANY
1303 LOGAN CIRCLE NW
ATLANTA, GA 30318
PHONE: 404-748-9281
EMAIL: Tom@frenchsteel.com
EMAIL: Kevin@frenchsteel.com

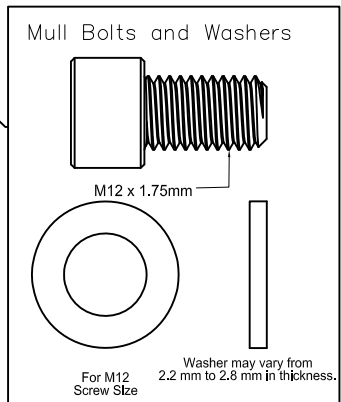
ROBERT J. AMORUSO, P.E.
FL PE LICENSE NO. 49752
226 N. NOVA RD., #142
ORMOND BEACH, FL 32174-5124
RJAENGPE@GMAIL.COM



Digitally signed by
Robert J Amoruso
Date: 2024.02.15
16:55:12 -05'00'

DRAWING NO. FSC0001
REVISION A
DATED: 2/9/2024
SHEET 14 of 16

REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	UPDATE TO 2023 FBC	RJA	2/9/24



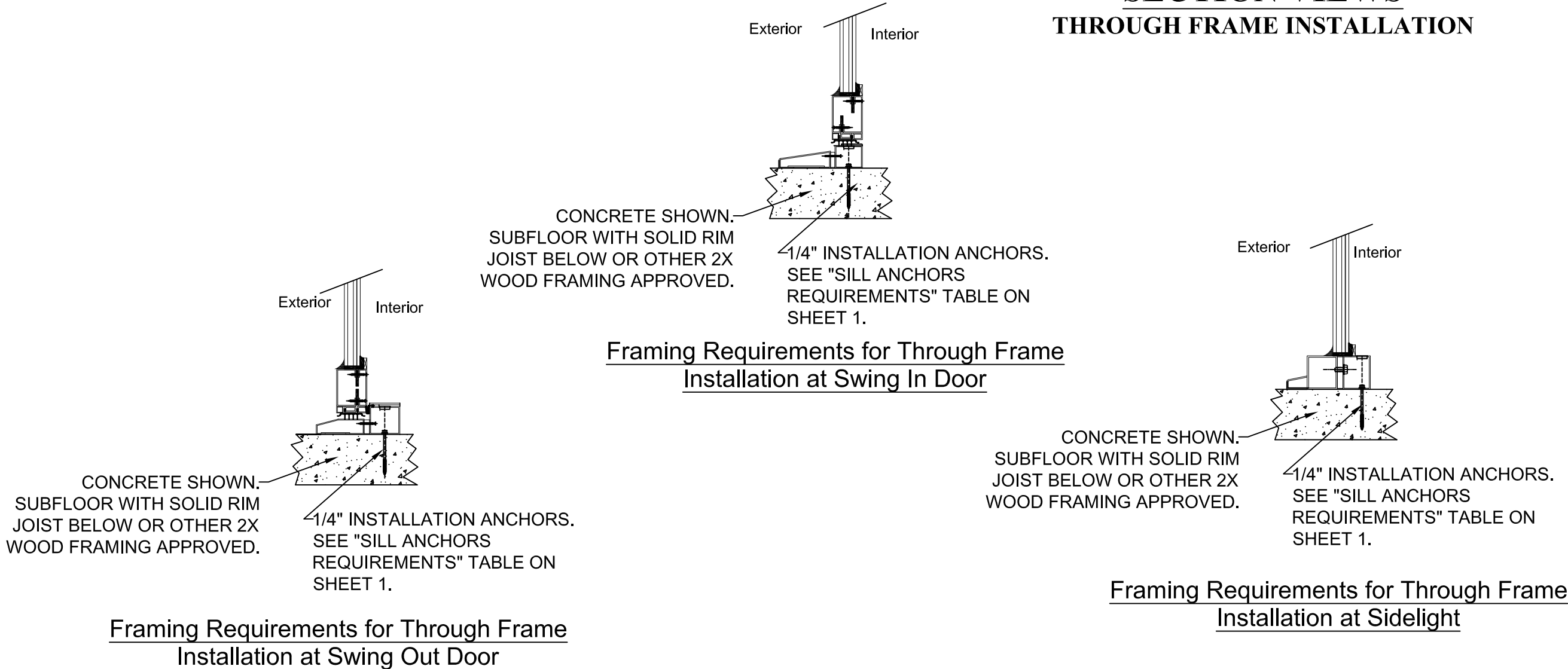
DETAIL A

CORNER CONSTRUCTION:
FRAME & PANELS: BUTTED AND FULLY WELDED
SILL AND FRAME: BUTTED AND FULLY WELDED

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION AND RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURE SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

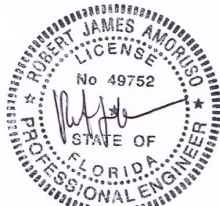
SWING IN DOOR ASSEMBLY HORIZONTAL SECTION VIEWS STEEL ANCHOR CLIP INSTALLATION SHOWN (THROUGH FRAME INSTALLATION SAME EXCEPT THROUGH FRAME ANCHORS REPLACE STEEL CLIPS)

SILL INSTALLATION ANCHOR
REQUIREMENTS
SECTION VIEWS
THROUGH FRAME INSTALLATION



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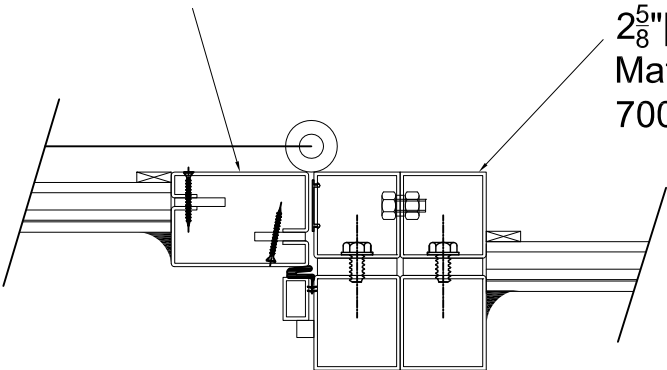
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Robert J Amoruso
Date: 2024.02.15
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DRAWING NO. FSC0001
REVISION A
DATED: 2/9/2024
SHEET 15 of 16

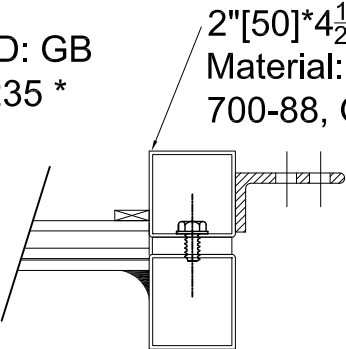
REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	UPDATE TO 2023 FBC	RJA	2/9/24

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3¹/₄"[80]*2¹/₈"[55]Tube
Material: STANDARD: GB
700-88, GRADE: Q235 *



2⁵/₈"[67]*2¹/₈"[55]Tube
Material: STANDARD: GB
700-88, GRADE: Q235 *



2"[50]*4¹/₂"[115]Jamb
Material: STANDARD: GB
700-88, GRADE: Q235 *

* STANDARD: GB 700-88, GRADE:
Q235 (CHINESE) EQUIVALENT TO THE
FOLLOWING USA SPECIFICATION(S):
ASTM A283M, GRADE D.

TYPICAL FRAMING
COMPONENTS

