

ELIXIR DOOR & METALS CO.

NON-IMPACT MODEL BVIF7N & BVIF7S IS STEEL DOOR

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE PRODUCT ANCHORAGE SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), BUILDING AND RESIDENTIAL VOLUMES EXCLUDING HIGH VELOCITY HURRICANE ZONE AND THE DESIGN PRESSURE(S) STATED HEREIN.
 - 1a. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT CONSTRUCTION CONSULTING LABORATORY REPORT # CCL-20-170 (BVIF7N) AND CCL-20-171 (BVIF7S) AND ASSOCIATED LABORATORY STAMPED DRAWINGS.
 - 1b. TESTED TO ASTM E330-14.
 2. ADEQUACY OF THE EXISTING STRUCTURAL 2X FRAMING OR STEEL 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.
 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.
 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. IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS IS MANDATORY FOR THE PRODUCT HEREIN.
 6. FRAME MATERIAL: FINGER JOINTED LVL
DOOR PANEL MATERIAL: .019" GALVANIZED STEEL SKIN WITH URETHANE FOAM CORE
 - GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.
 6. DESIGNATIONS "X" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
 9. HARDWARE:
 - A. 4" x 4" RESIDENTIAL HINGES: NICKEL
 - B. LATCH LOCK: KEYED
 - C. DEAD BOLT: SINGLE CYLINDER
 10. SEE SHEET 2 AND 3 FOR DESIGN PRESSURE CHARTS.
 11. IF WATER INFILTRATION REQUIREMENT EXISTS, UNIT MUST BE INSTALLED BENEATH AN OVERHANG MEETING THE CURRENT EDITION OF THE FLORIDA BUILDING CODE, BUILDING AND RESIDENTIAL VOLUMES.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
2. THE INSTALLATION ANCHORS AT THE SPACINGS SHOWN ARE THE MINIMUM NUMBER OF ANCHORS AND MAXIMUM SPACINGS TO BE USED FOR PRODUCT INSTALLATION.
3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE OF 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
4. ANCHORS FOR INSTALLATION INTO WOOD FRAMING OR CONCRETE/MASONRY WITH OR WITHOUT 1X WOOD BUCK SHALL BE AS SHOWN IN "ANCHOR SCHEDULE" THIS SHEET.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
6. 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 "ANCHOR SCHEDULE" THIS SHEET.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

ANCHOR SCHEDULE							
SUBSTRATE	WINDOW FRAME TYPE	TYPE	SIZE	MANUFACTURER AND/OR SPECIFICATION	EMBEDMENT (IN) ^{(2) (3)}	EDGE DISTANCE (IN) ^{(2) (3) (4)}	ANCHOR CAPACITIES BASED ON
CONCRETE	THRU-FRAME	FLAT HEAD	3/16"	ITW TAPCONS ⁽¹⁾	1-1/2"	1-1/8"	MIN. 2000 PSI CONCRETE
MASONRY (BLOCK/CMU)	THRU-FRAME	FLAT HEAD	3/16"	ITW TAPCONS ⁽¹⁾	1"	2"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
WOOD	THRU-FRAME	FLAT HEAD	NO. 10	ANSI B18.6.1 (WOOD SCREW) ASME B18.6.4 (TAPPING SCREW)	1-3/8"	3/4"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42.

NOTES:

1) ITW (ADVANCED THREADFORM TECHNOLOGY) TAPCONS WILL BE USED FOR CONCRETE/MASONRY INSTALLATION.

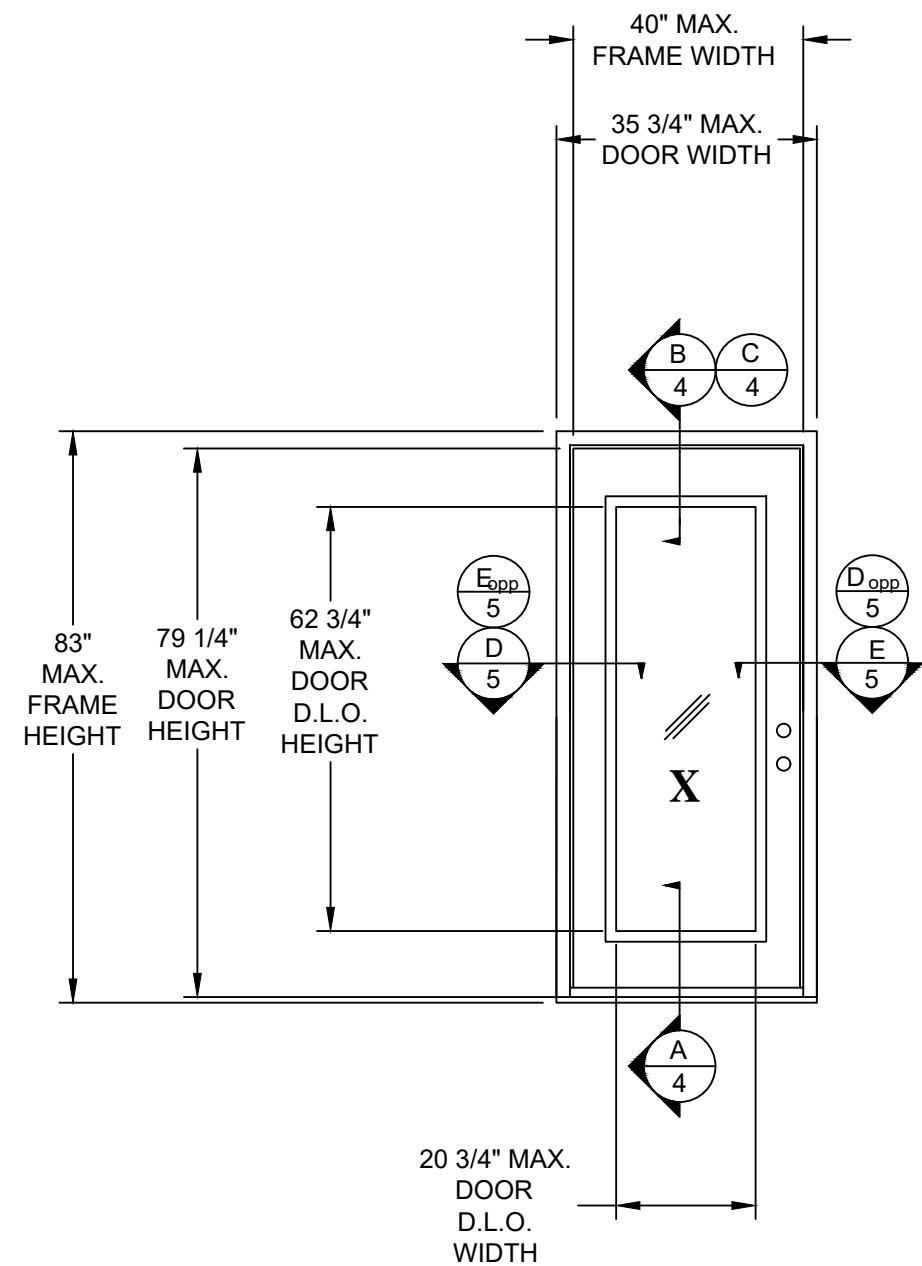
2) FOR WOOD SCREWS IF SPLITTING IS A CONCERN, DRILL 0.112" PILOT HOLE (DRILL SIZE 34).

3) FOR TAPPING SCREWS IF SPLITTING IS A CONCERN, DRILL 0.121" PILOT HOLE (DRILL SIZE 31).

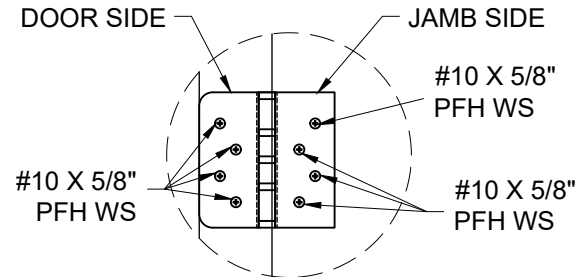
4) EDGE DISTANCE MEASURED FROM EITHER SIDE OF ANCHOR TO EDGE OF SUBSTRATE.

TABLE OF CONTENT	
SHEET	DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	BVIF7N ELEVATION AND ANCHOR LAYOUT
3	BVIF7S ELEVATION AND ANCHOR LAYOUT
4	BVIF7N VERTICAL CROSS SECTIONS
5	BVIF7N HORIZONTAL CROSS SECTIONS AND GLAZING DETAIL
6	BVIF7S VERTICAL CROSS SECTIONS
7	BVIF7S HORIZONTAL CROSS SECTIONS AND GLAZING DETAIL

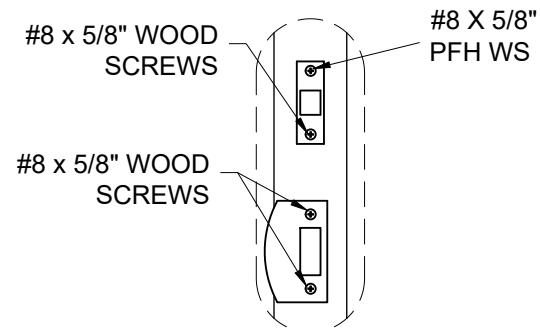
ELIXIR DOOR & METALS CO. 1215 POPE DRIVE DOUGLAS, GA. 31533		PROJECT NUMBER: 419-0903	
TITLE: MODEL BV17N & BV17S IS STEEL FRENCH DOOR X WITH & WITHOUT STORM DOOR - NON-IMPACT GENERAL AND INSTALLATION NOTES			
PREPARED BY:	DRAWN BY: TJH	DATE: 02/29/12	
	SCALE: N.T.S.	DRAWING NO: ELIX0049	
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com	REV: R	SHEET: 1 OF 7	
Robert J. Amoruso, P.E. FL P.E. No. 49752		UPDATE TO CURRENT EDITION: FBC	1/25/21
		B	RJA
		REV	DATE
		DESCRIPTION	BY



X ELEVATION
EXTERIOR VIEW

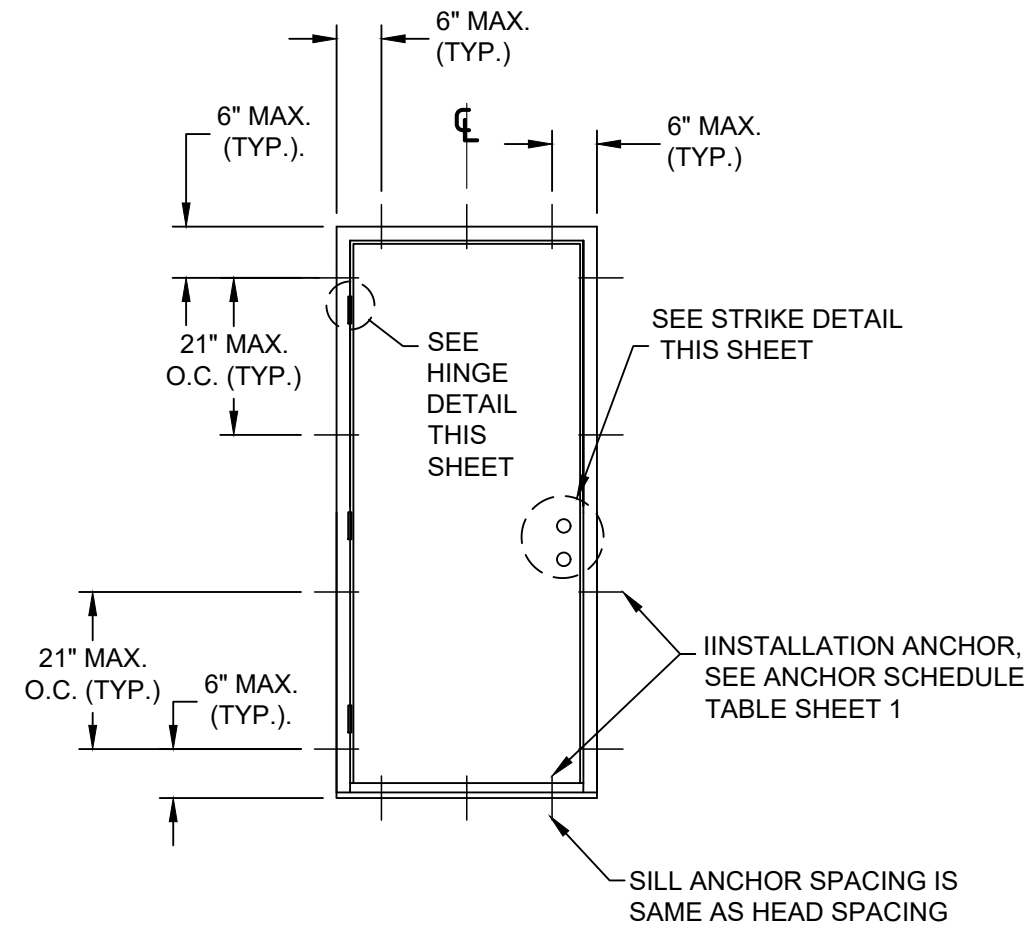


HINGE DETAIL



STRIKE DETAIL

MODEL BVIF7N



X ANCHOR LAYOUT
EXTERIOR VIEW

DESIGN PRESSURE RATING (PSF)		IMPACT RATING
WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	NONE
SEE GENERAL NOTE 11, SHEET 1	+40 / -40	

PROJECT NUMBER: 419-0903

ELIXIR DOOR & METALS CO.
1215 POPE DRIVE
DOUGLAS, GA. 31533

TITLE: MODEL BVIF7N & BVIF7S IS STEEL FRENCH DOOR
X WITH & WITHOUT STORM DOOR - NON-IMPACT
BVIF7N ELEVATION AND ANCHOR LAYOUT

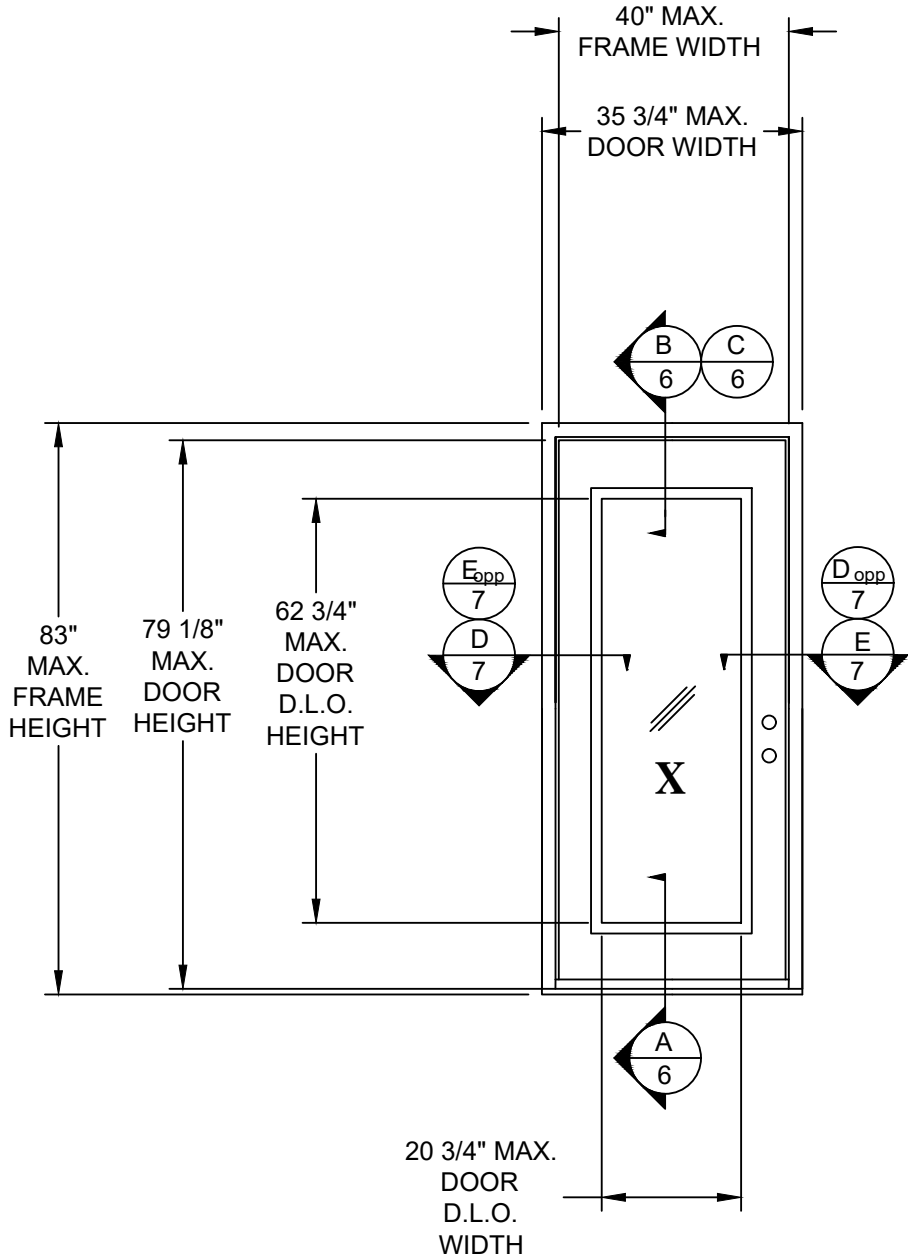
DRAWN BY:	TJH	DATE:	02/29/12
SCALE:	N.T.S.	DRAWING NO:	ELIX0049
REV:	B	SHEET:	2 OF 7

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com
FBPE CA NO 23385

Robert J. Amoruso, P.E.
FL P.E. No. 49752

BY	DATE	DESCRIPTION	REV
RJA	1/25/21	UPDATE TO CURRENT EDITION FBC	B

MODEL BVIF7S



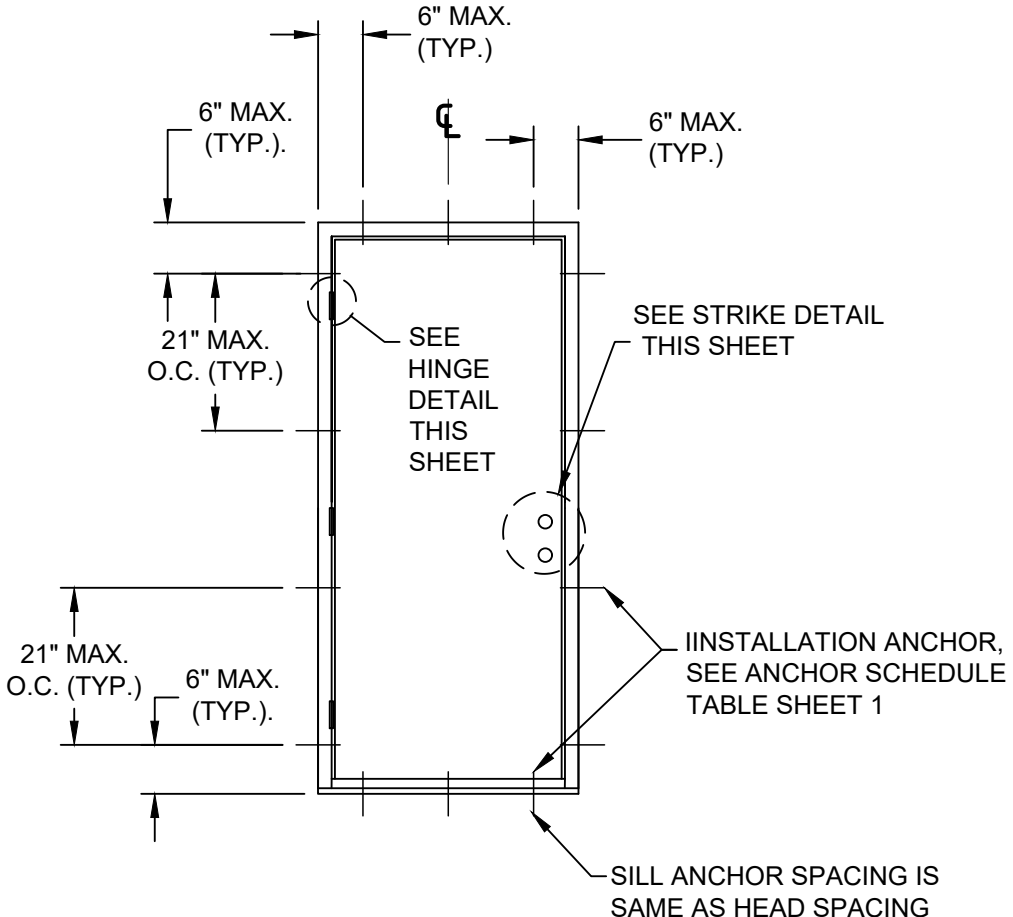
X ELEVATION

EXTERIOR VIEW

STORM DOOR DETAILS

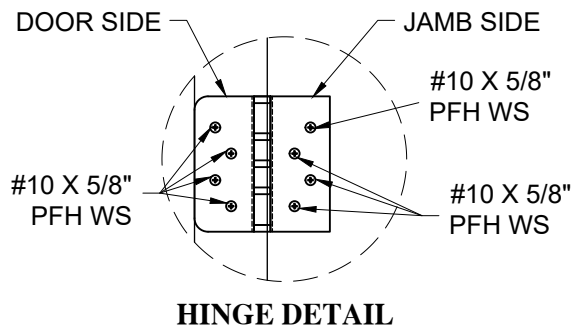
Storm / Out-Swing
959 x 2064 (37 3/4" x 81 1/4")
909 x 2026 (35 3/4" x 79 3/4")
787 x 1918 (31" x 75 1/2")

DESIGN PRESSURE RATING (PSF)		IMPACT RATING
WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	NONE
SEE GENERAL NOTE 11, SHEET 1	+50 / -50	

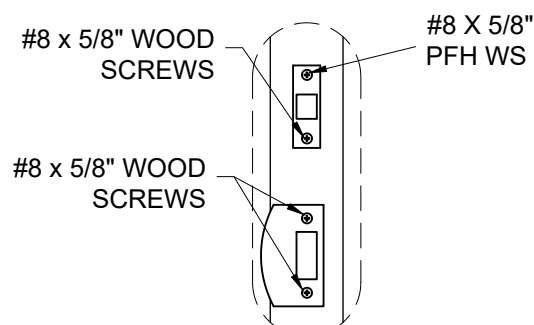


X ANCHOR LAYOUT

EXTERIOR VIEW



HINGE DETAIL



STRIKE DETAIL

PROJECT NUMBER: 419-0903

ELIXIR DOOR & METALS CO.
1215 POPE DRIVE
DOUGLAS, GA. 31533

MODEL BVIF7N & BVIF7S IS STEEL FRENCH DOOR
X WITH & WITHOUT STORM DOOR - NON-IMPACT
BVIF7S ELEVATION AND ANCHOR LAYOUT

PREPARED BY:	JOHANN PVL	DATE:
--------------	------------	-------

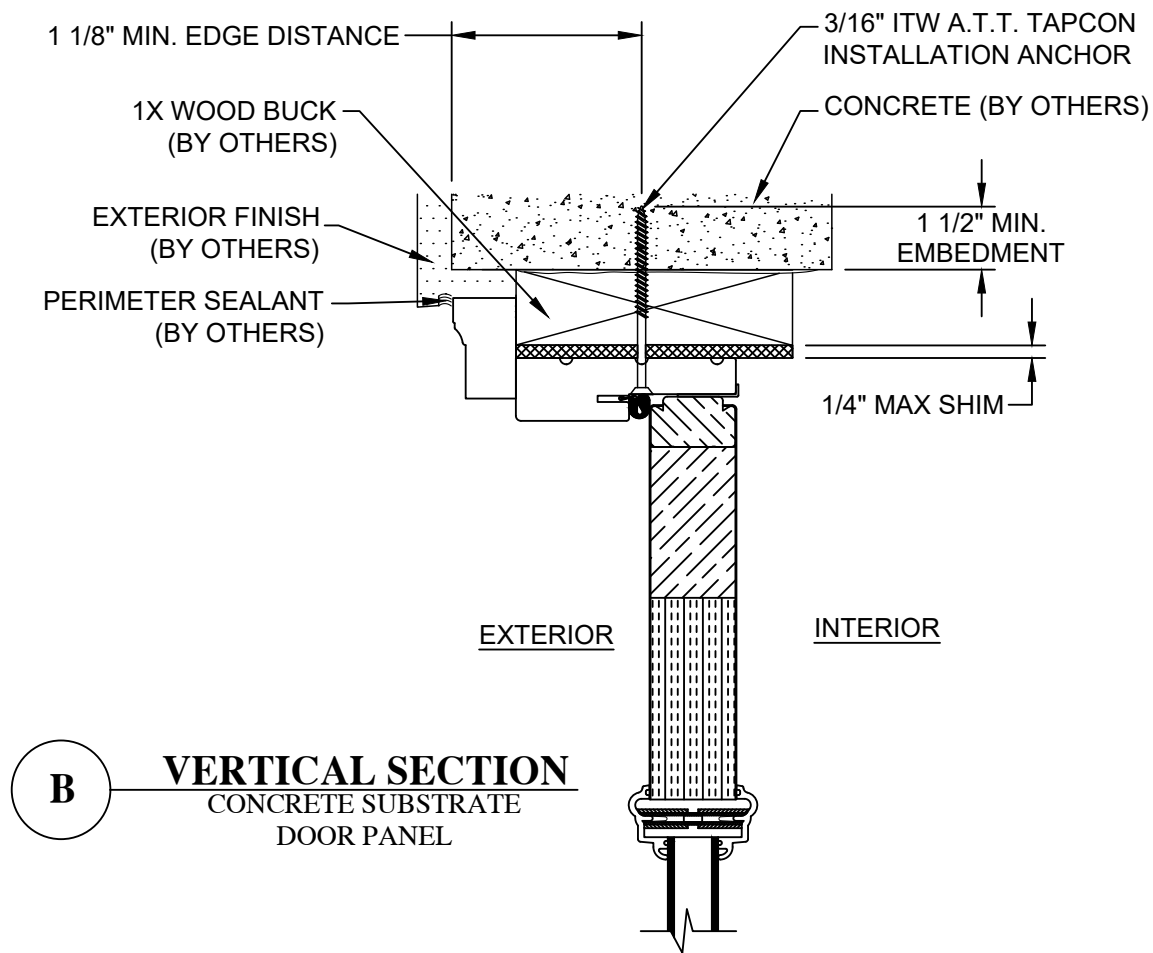
 PTC PRODUCT DESIGN GROUP, LLC P.O. BOX 520775 LONGWOOD, FLORIDA 32752 FBPE CA. NO. 25395	DATE:	02/29/12
	DRAWING BY:	TJH
	SCALE:	N.T.S.
	REV:	B

DRAWING NO:	ELIX0049
SHEET:	3 OF 7

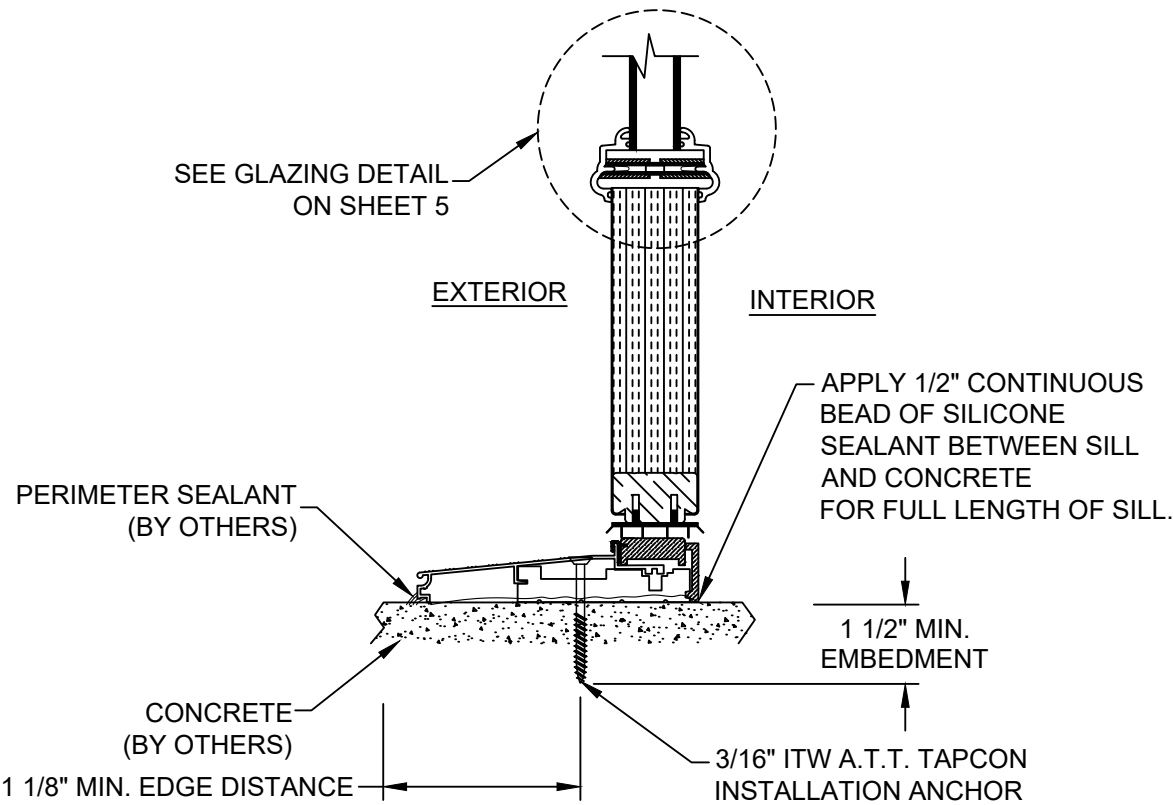
Email: info@ptc-corp.com

Robert J. Amoruso, P.E.
FL P.E. No. 49752

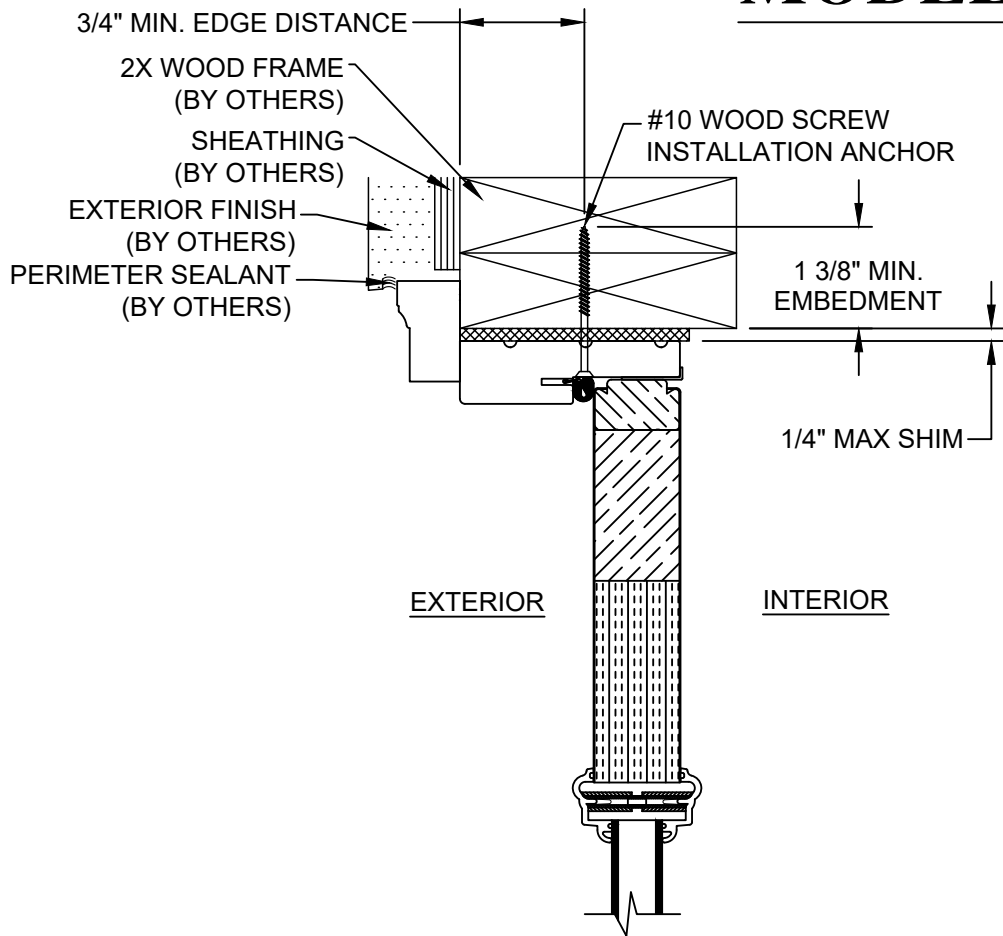
MODEL BVIF7N



B VERTICAL SECTION
CONCRETE SUBSTRATE
DOOR PANEL



A VERTICAL SECTION
CONCRETE SUBSTRATE
DOOR PANEL



C VERTICAL SECTION
WOOD FRAME SUBSTRATE
DOOR PANEL

PROJECT NUMBER: 419-0903

ELIXIR DOOR & METALS CO.

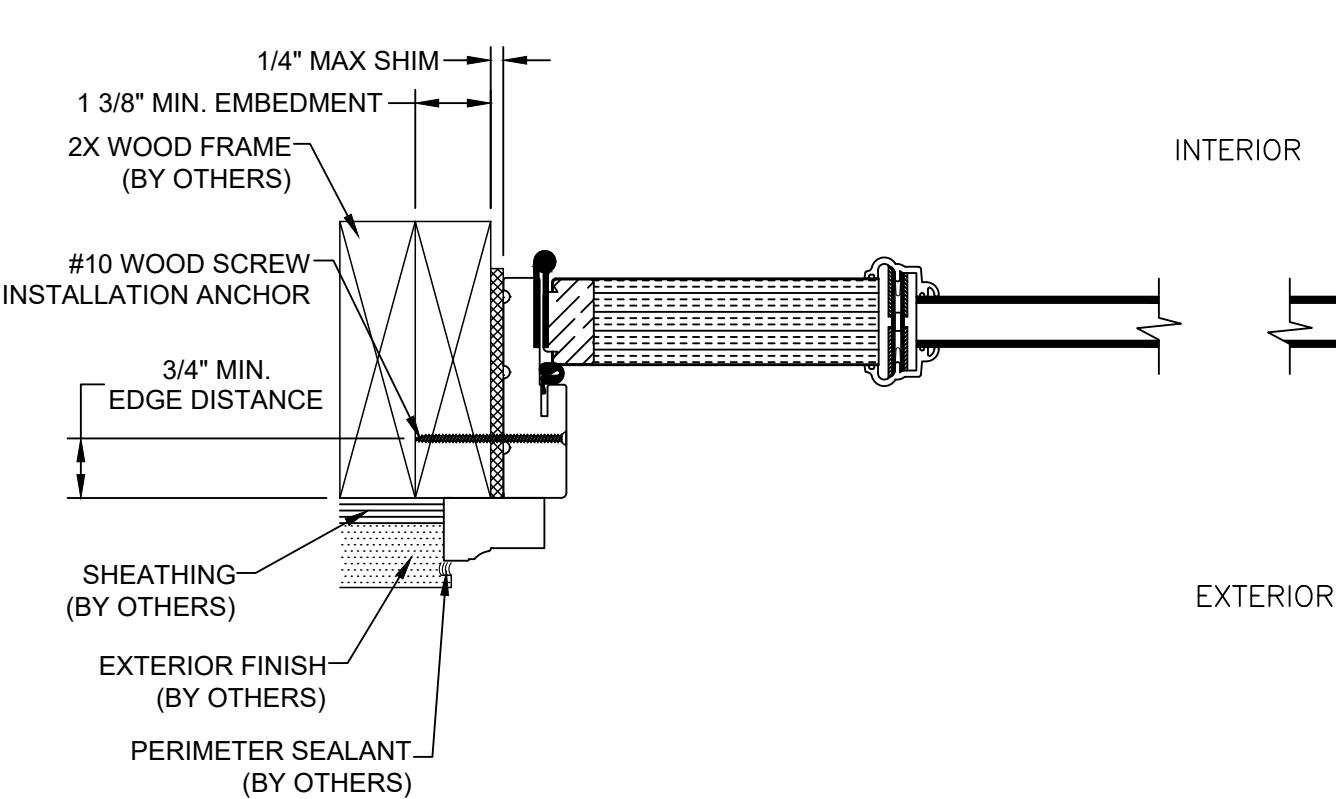
1215 POPE DRIVE
DOUGLAS, GA. 31533

MODEL BVIF7N & BVIF7S IS STEEL FRENCH DOOR
X WITH & WITHOUT STORM DOOR - NON-IMPACT
BVIF7N VERTICAL CROSS SECTIONS

DATE: 02/29/12
DRAWING NO: ELIX0049
SHEET: 4 OF 7
REV: B
DESCRIPTION: UPDATE TO CURRENT EDITION FBC
BY: RJA
DATE: 1/25/21

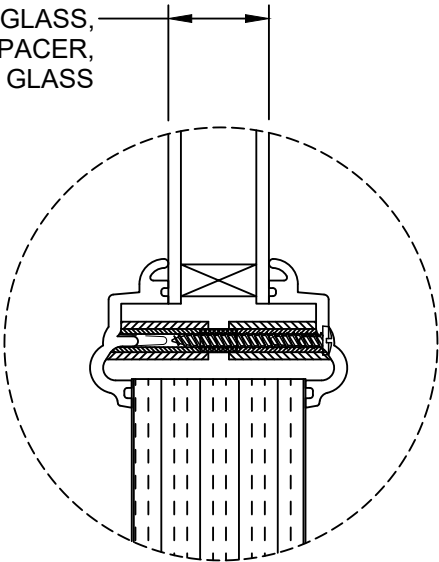
Robert J. Amoruso, P.E.
FL P.E. No. 49752

MODEL BVIF7N

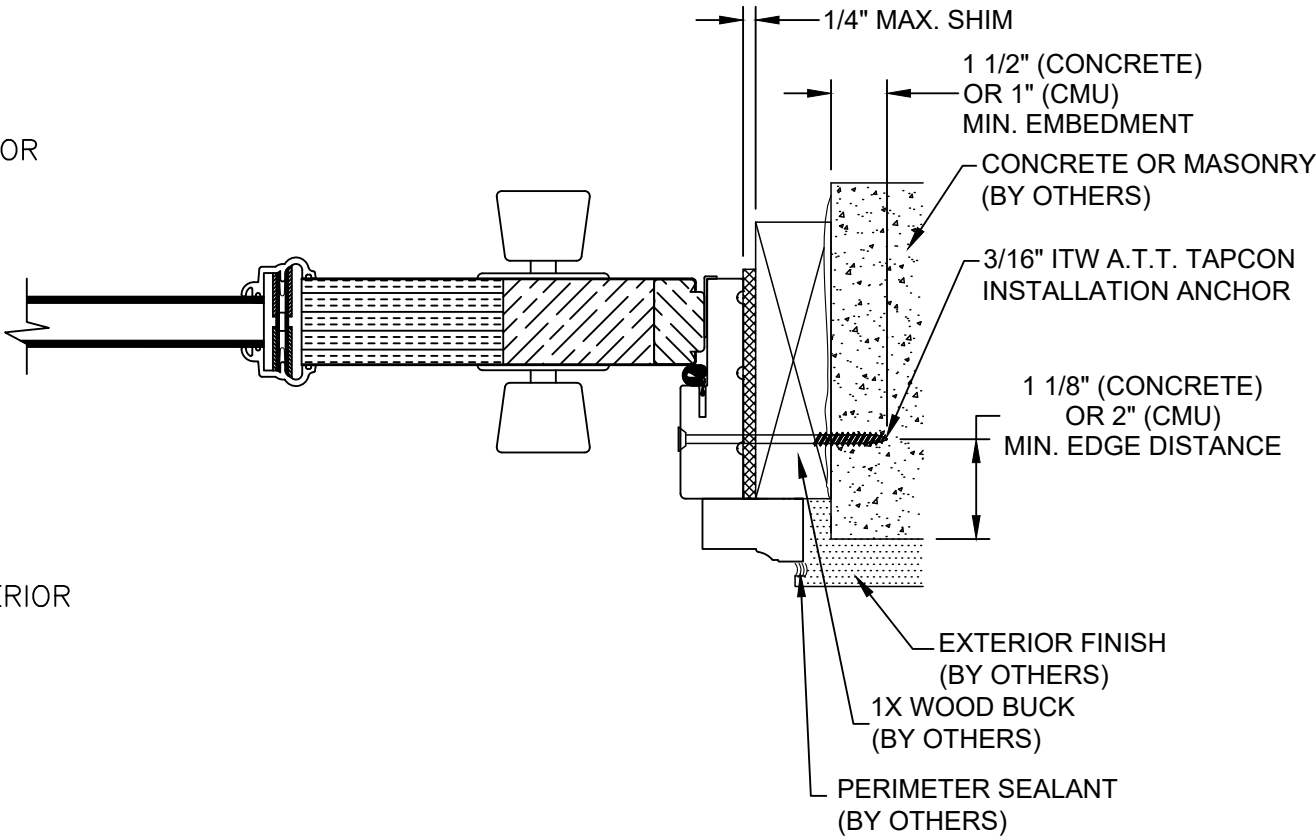


D **HORIZONTAL SECTION**
WOOD FRAME SUBSTRATE
DOOR PANEL

1" O.A. INSULATED GLASS
CONSISTING OF:
1/8" TEMPERED GLASS,
3/4" ALUMINUM SPACER,
1/8" TEMPERED GLASS



DOOR PANEL
GLAZING DETAIL



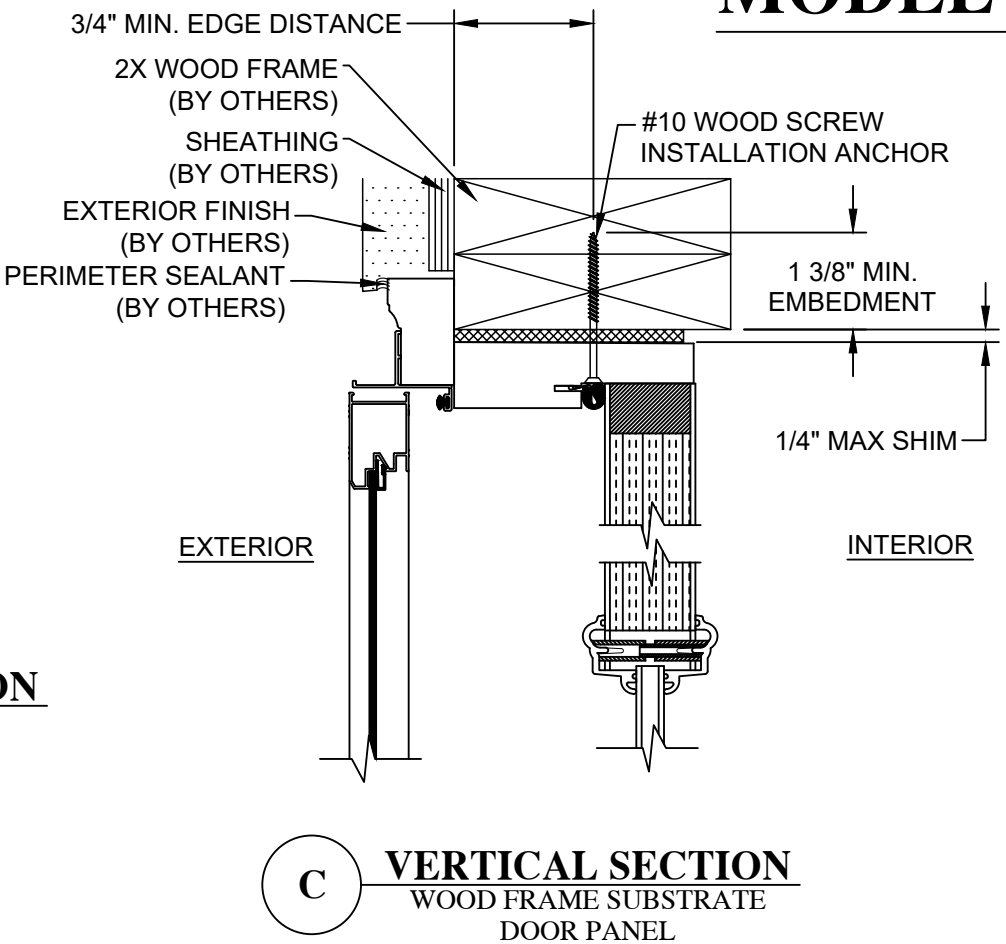
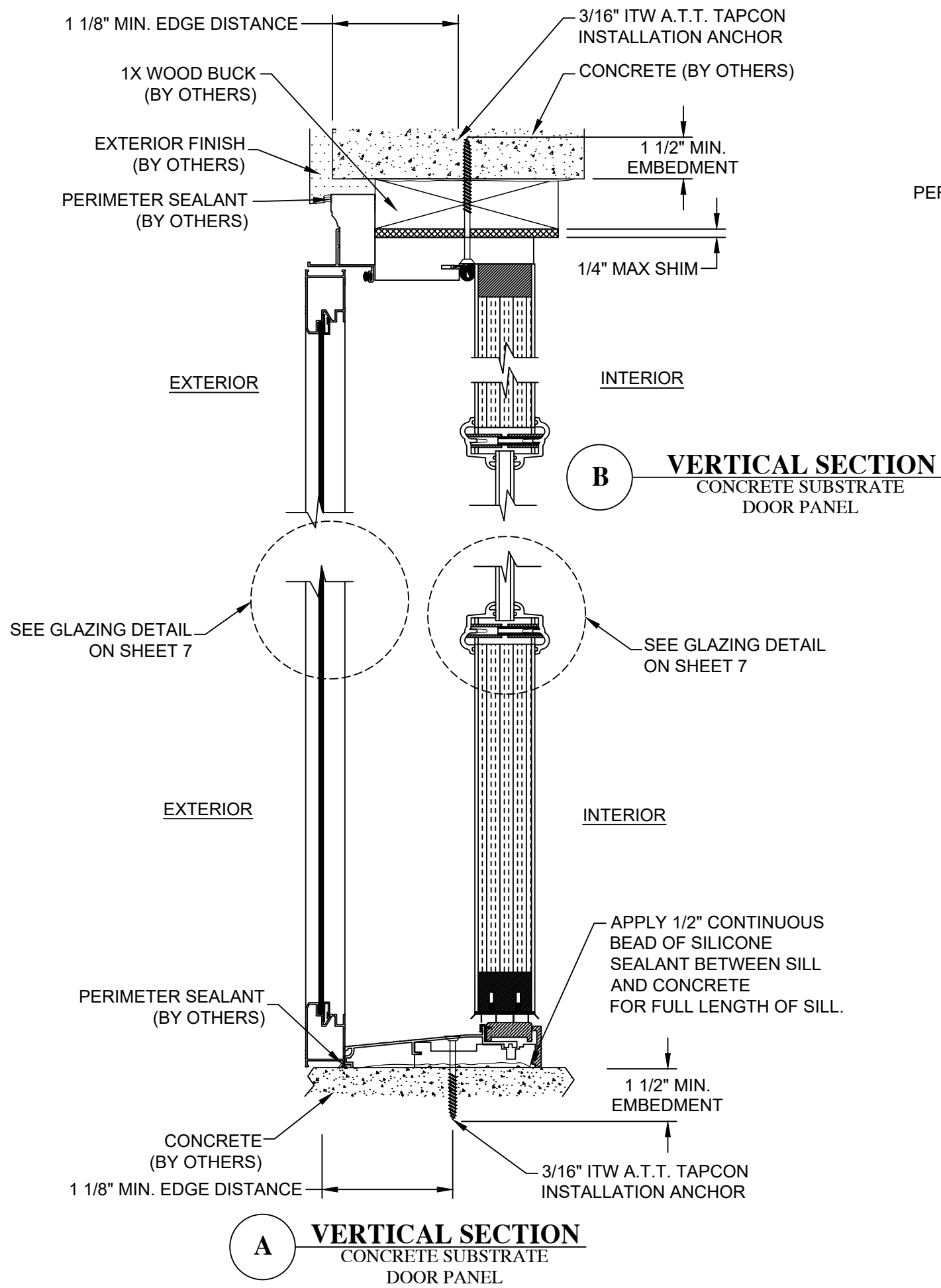
E **HORIZONTAL SECTION**
CONCRETE OR MASONRY SUBSTRATE
DOOR PANEL

PROJECT NUMBER: 419-0903						
				UPDATE TO CURRENT EDITION FBC	1/25/21	R/A
				DESCRIPTION	DATE	BY

ELIXIR DOOR & METALS CO. 1215 POPE DRIVE DOUGLAS, GA. 31533				TITL: MODEL BVIF7N & BVIF7S IS STEEL FRENCH DOOR X WITH & WITHOUT STORM DOOR - NON-IMPACT BVIF7N HORIZONTAL CROSS SECT & GLAZING DETAIL			
DRAWN BY: TJH		DATE: 02/29/12		DRAWING NO: ELIX0049		SHEET: 5 OF 7	
SCALE: N.T.S.		REV: B		PREPARED BY:		PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE CA NO 23555	
REV: B		REV: B		REV: B		REV: B	

Robert J. Amoruso, P.E.
FL P.E. No. 49752

MODEL BVIF7S



PROJECT NUMBER: 419-0903

ELIXIR DOOR & METALS CO.

1215 POPE DRIVE
DOUGLAS, GA. 31533

MODEL BVIF7N & BVIF7S IS STEEL FRENCH DOOR
X WITH & WITHOUT STORM DOOR - NON-IMPACT
BVIF7S VERTICAL CROSS SECTIONS

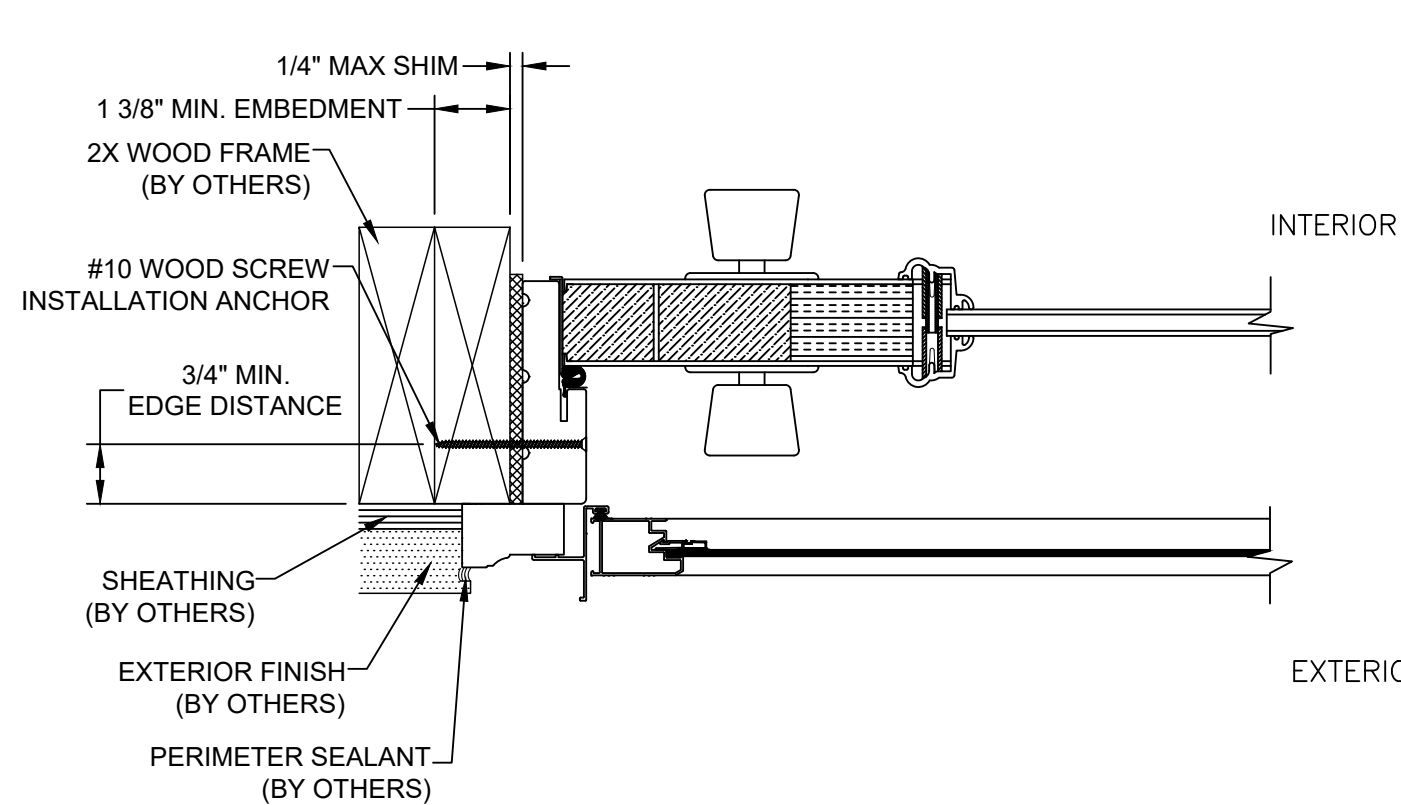
PREPARED BY:
DRAWN BY: TJH
SCALE: N.T.S.
REV: B

DATE: 02/29/12
DRAWING NO: ELIX0049
SHEET: 6 OF 7

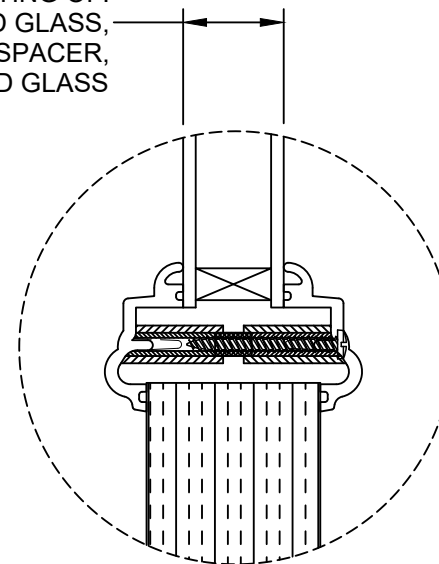
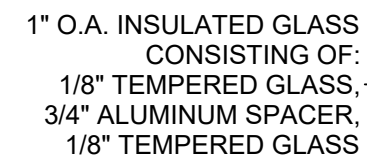
UPDATE TO CURRENT
EDITION FBC
1/25/21 RJA
DESCRIPTION
REV

Robert J. Amoruso, P.E.
FL P.E. No. 49752

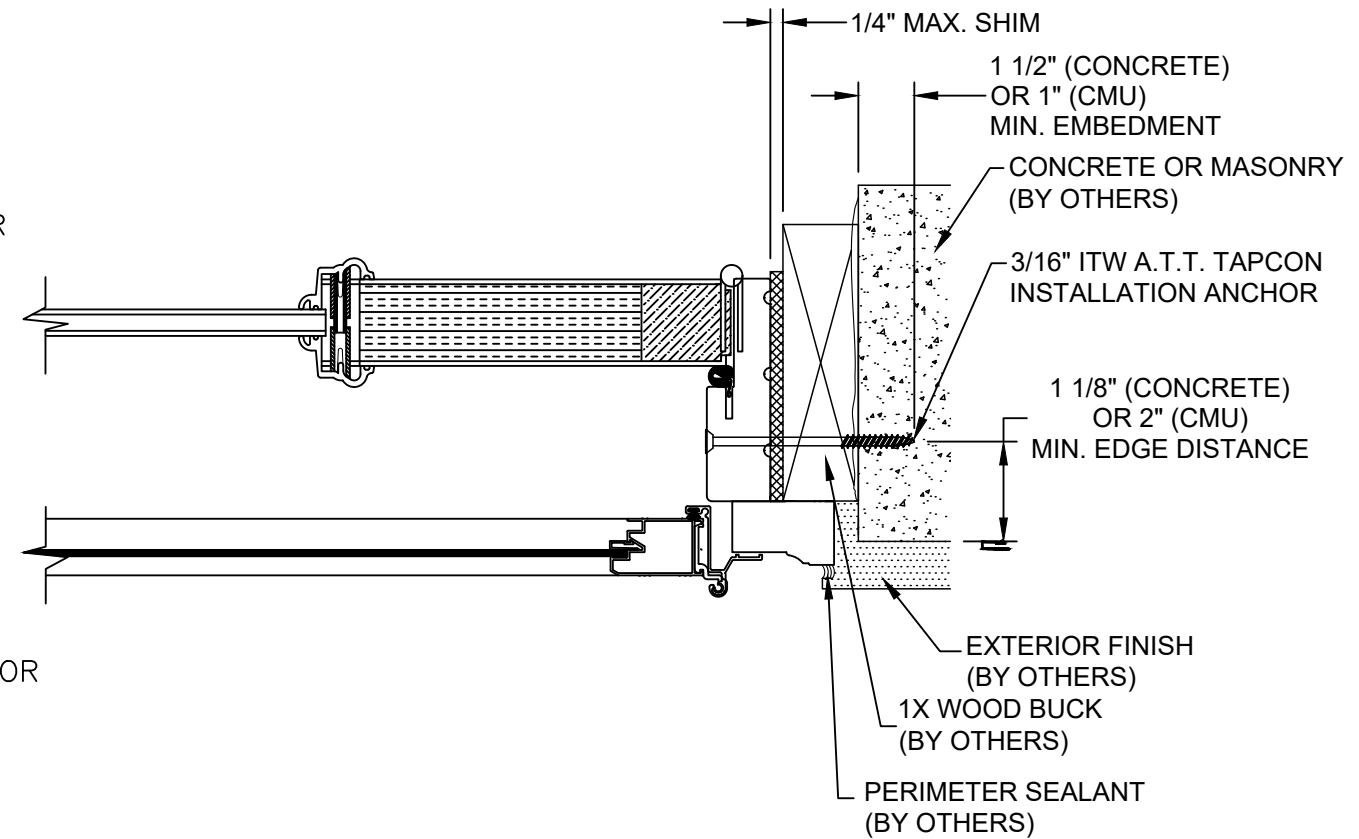
MODEL BVIF7S



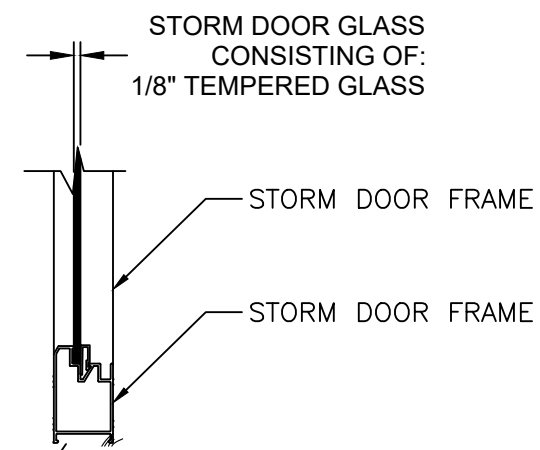
D **HORIZONTAL SECTION**
WOOD FRAME SUBSTRATE
DOOR PANEL



DOOR PANEL GLAZING DETAIL



E **HORIZONTAL SECTION**
CONCRETE OR MASONRY SUBSTRATE
DOOR PANEL



STORM DOOR GLAZING DETAIL

PROJECT NUMBER: 419-0903

ELIXIR DOOR & METALS CO.
1215 POPE DRIVE
DOUGLAS, GA. 31533

MODEL BV1F7N & BV1F7S IS STEEL FRENCH DOOR
X WITH & WITHOUT STORM DOOR - NON-IMPACT
BV1F7S HORIZONTAL CROSS SECT & GLAZING DETAIL

PREPARED BY:

PDC

PDC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935

Phone: 321.690.1788
Fax: 321.690.1789
Email: info@pdc-corp.com

DRAWN BY:	TJH	DATE:	02/29/12
SCALE:	N.T.S.	DRAWING NO:	ELIX0049
REV:	B	SHEET:	7 OF 7

Robert J. Amoruso, P.E.
FL P.E. No. 49752