



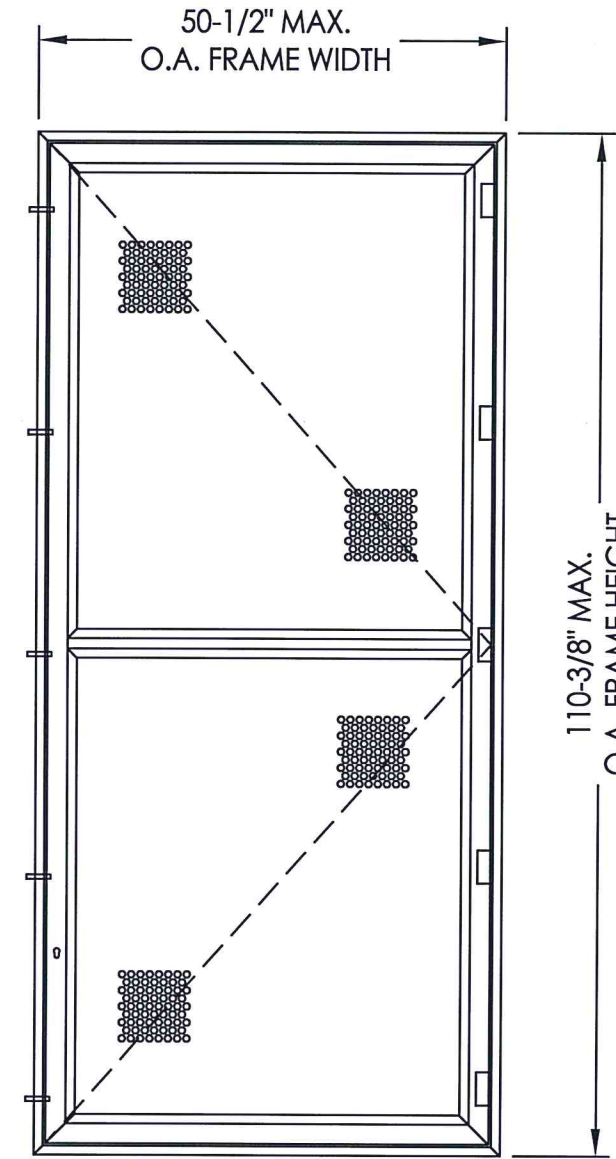
515 N. FRALEY STREET
KANE, PA 16735
PH. (814) 837-6464

VAN GUARD II ALUMINUM HURRICANE BARRIER OUTSWING "IMPACT"

GENERAL NOTES

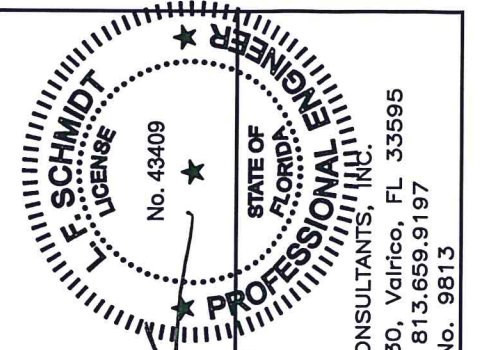
1. This product has been evaluated and is in compliance with the 6th Edition (2017) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the HVHZ, this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. All steel shall be protected as specified in Section 2222.6 of the FBC.

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1	Typical elevation, design pressures & general notes
2	Barrier panel sections, components & screen details
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5	Reveal mount sections - 2x wood framing
6	Surface mount sections - 2x wood framing
7	Surface mount anchoring - masonry wall
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11	Components and hardware details
12	Bill of materials & lock release options



MOUNTING STYLE	OVERALL FRAME DIMENSION	SCREEN OPENING DIMENSION	DESIGN PRESSURE (PSF) (without Porosity Factor)		DESIGN PRESSURE (PSF) (with Porosity Factor*)	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
REVEAL MOUNT	50.50" x 110.375"	41.78" x 49.18"	70.0	70.0	110.0	110.0
SURFACE MOUNT			70.0	70.0	110.0	110.0

* NOTE: The Design Pressure shown has been increased for the porosity of the barrier (62%). The consideration of the use of the porosity factor is at the discretion of the Design Professional or the Authority Having Jurisdiction.



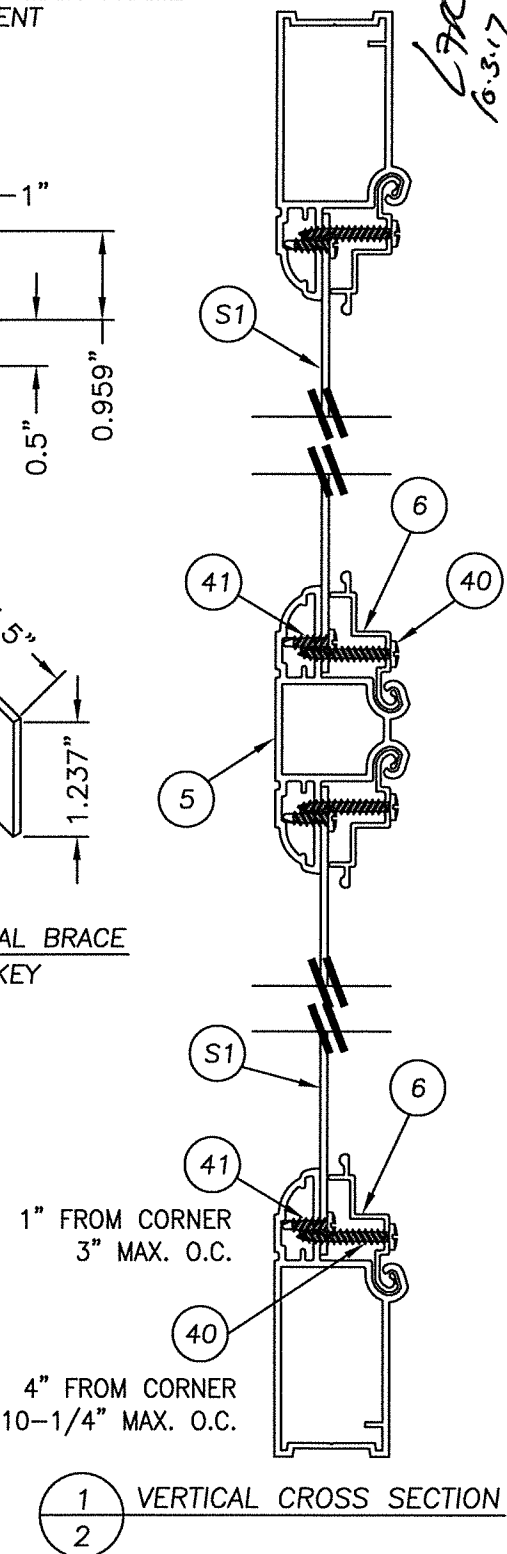
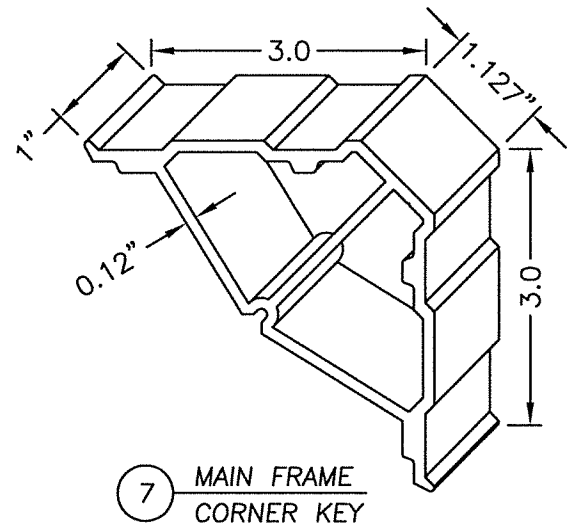
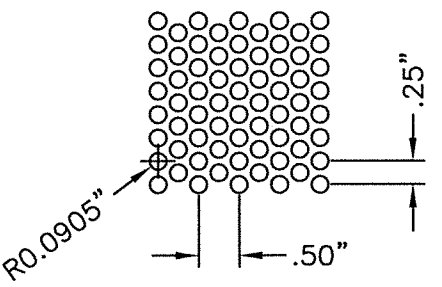
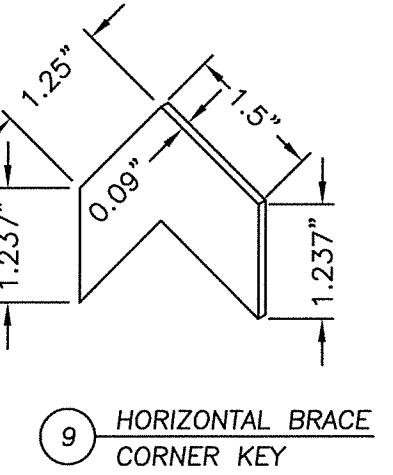
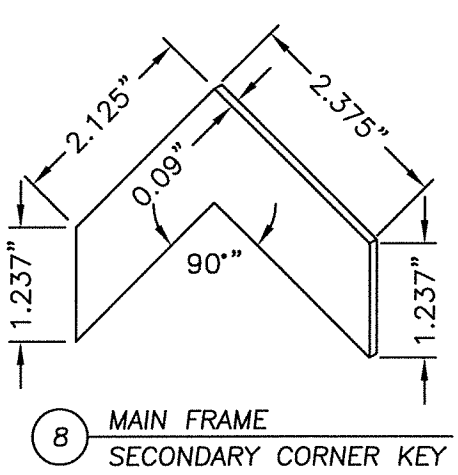
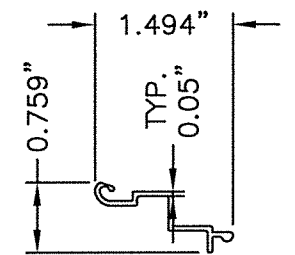
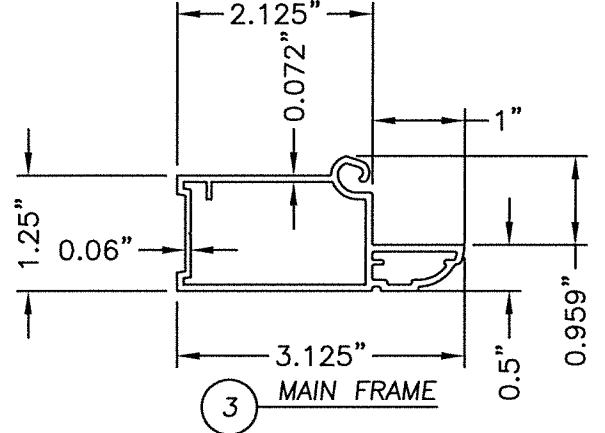
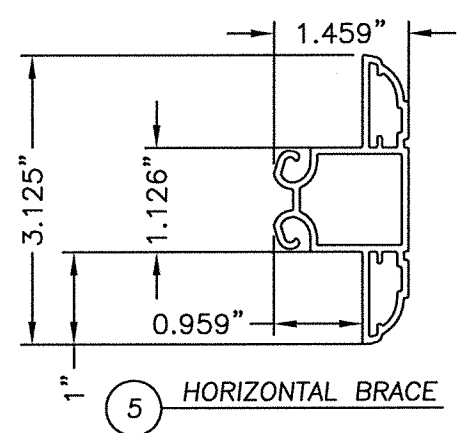
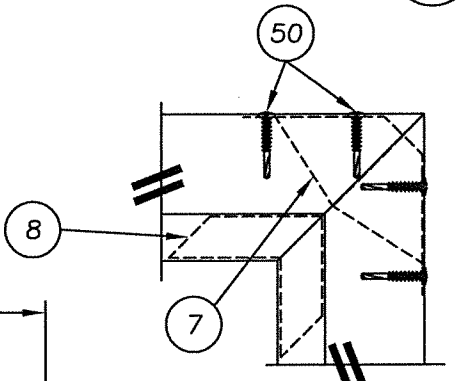
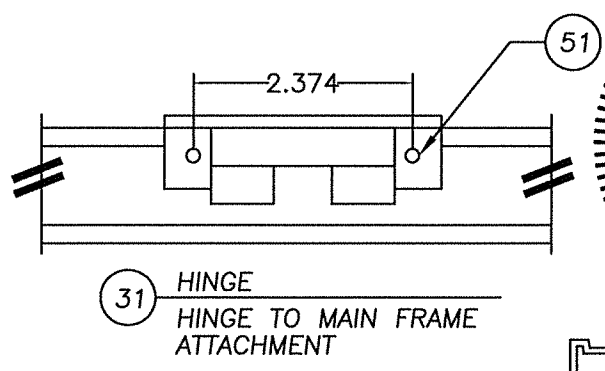
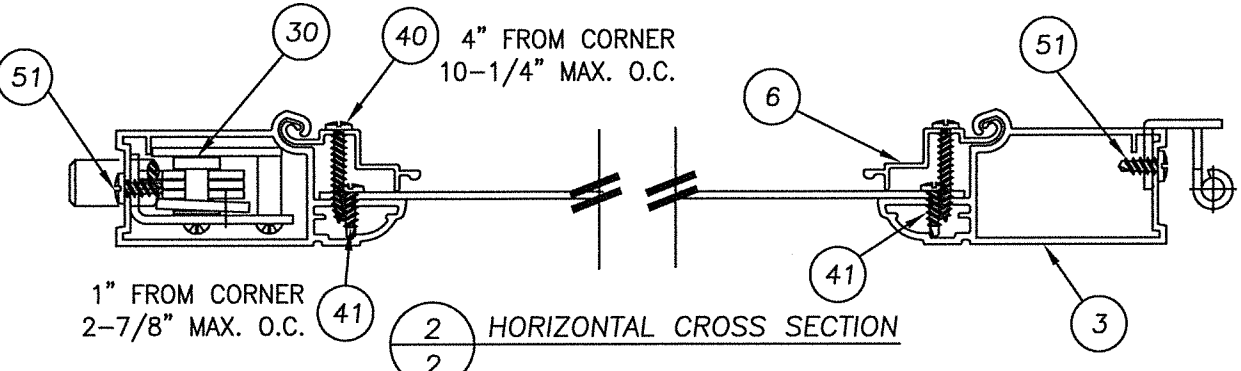
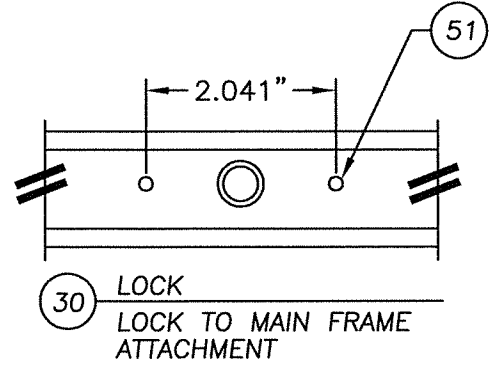
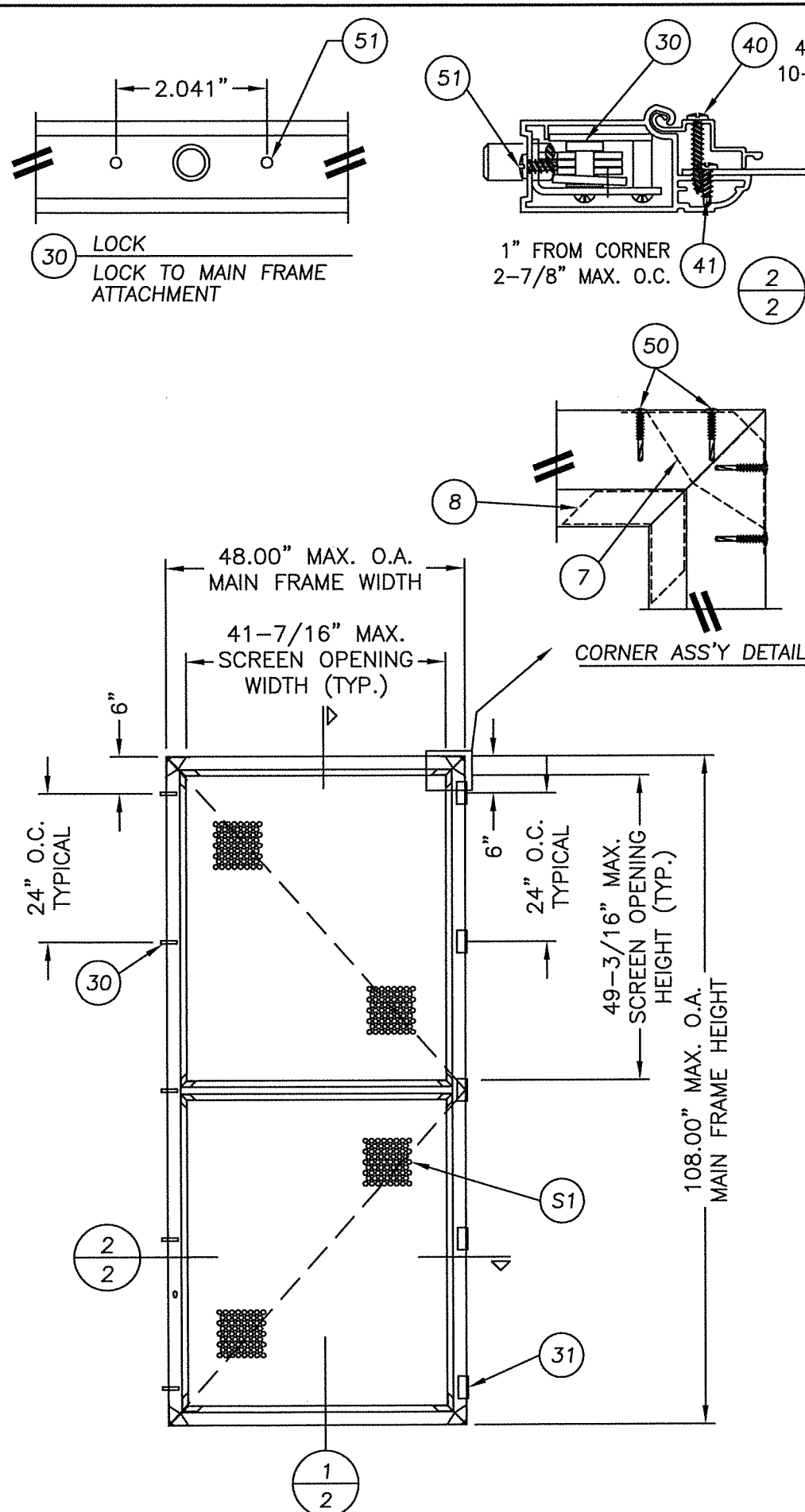
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BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC
2	7/01/15	UPDATE TO 5th ED. (2014) FBC
1	12/10/13	ADDED POROSITY D.P. RATING

DATE: 8/26/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-10238.1
SHEET 1 OF 12



STATE OF FLORIDA PROFESSIONAL ENGINEER
 F. SCHMIDT
 LICENSE No. 43409
 6.3.17

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 P.E. No. 43409

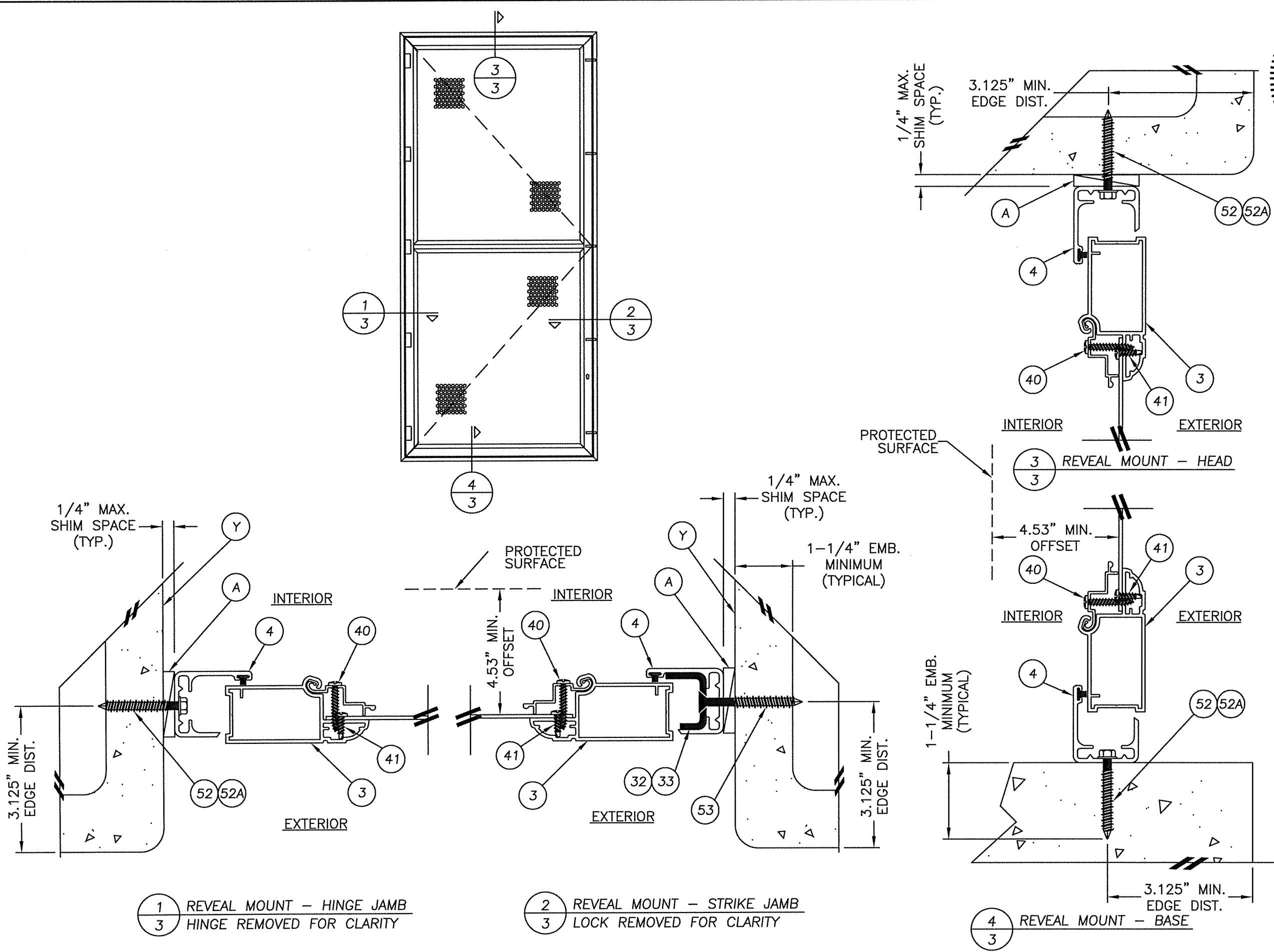
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 P.O. Box 230, Vairico, FL 33595
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 FBPE C.A. No. 9813

PRODUCT:
 KANE SCREENS
 VAN GUARD II
 ALUMINUM HURRICANE BARRIER
 PART OR ASSEMBLY:
 BARRIER PANEL SECTIONS,
 COMPONENTS & SCREEN DETAILS

REVISIONS	
NO.	DATE
3	9/26/17
2	7/01/15
1	12/10/13

DATE: 8/26/13
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-10238.1
 SHEET 2 OF 12

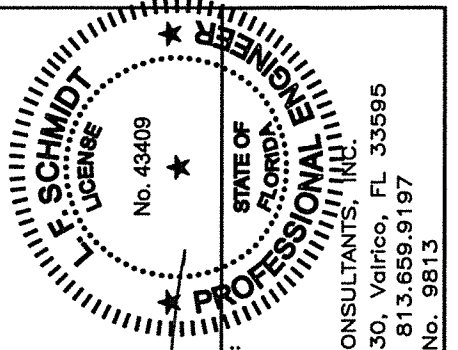
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1 REVEAL MOUNT - HINGE JAMB
3 HINGE REMOVED FOR CLARITY

2 REVEAL MOUNT - STRIKE JAMB
3 LOCK REMOVED FOR CLARITY

4 REVEAL MOUNT - BASE



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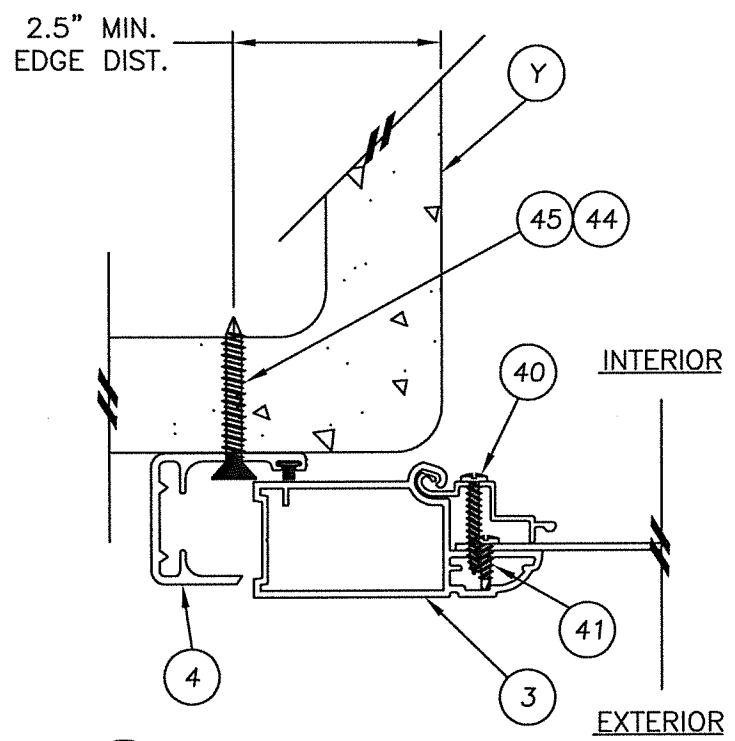
PRODUCT:

KANE SCREENS	JK
VAN GUARD II	FBC
ALUMINUM HURRICANE BARRIER	LFS
PART OR ASSEMBLY:	LFS
REVEAL MOUNT SECTIONS	BY
MASONRY WALLS	DATE

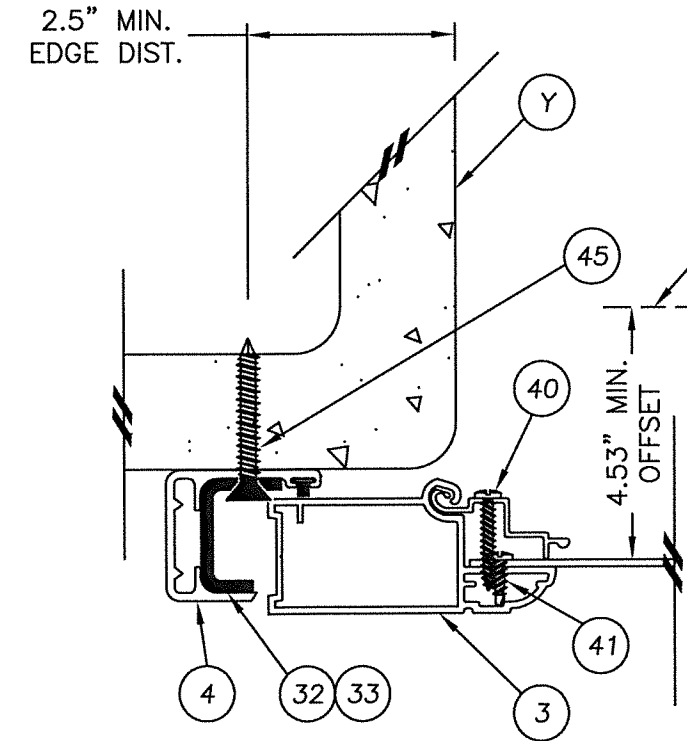
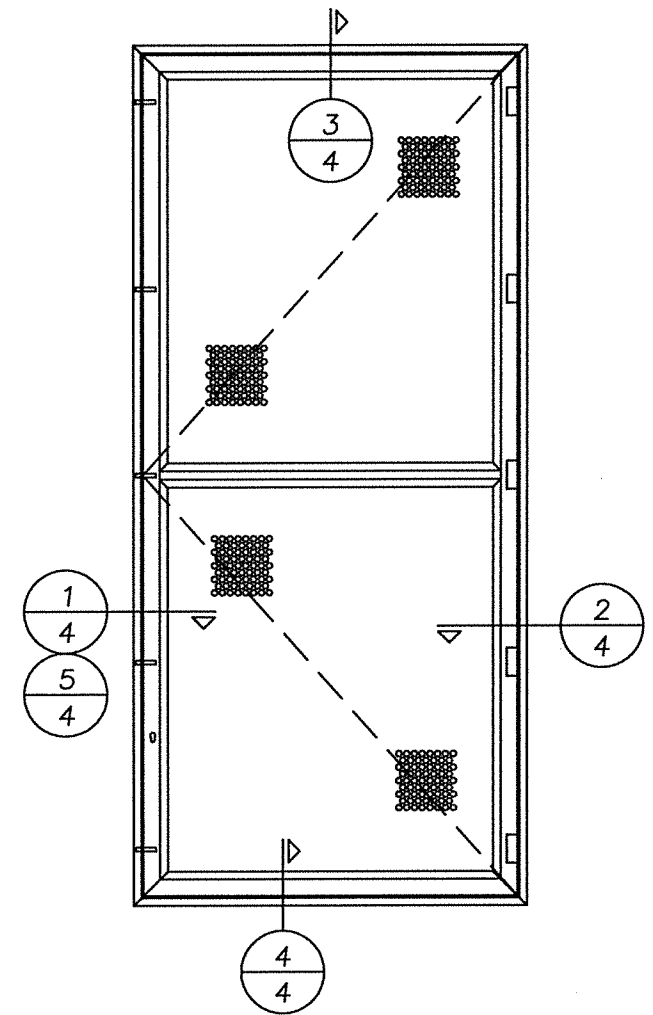
NO.	DATE	REVISIONS
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1	12/10/13	ADDED POROSITY D.P. RATING

DATE:	8/26/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-10238.1
SHEET	3 OF 12

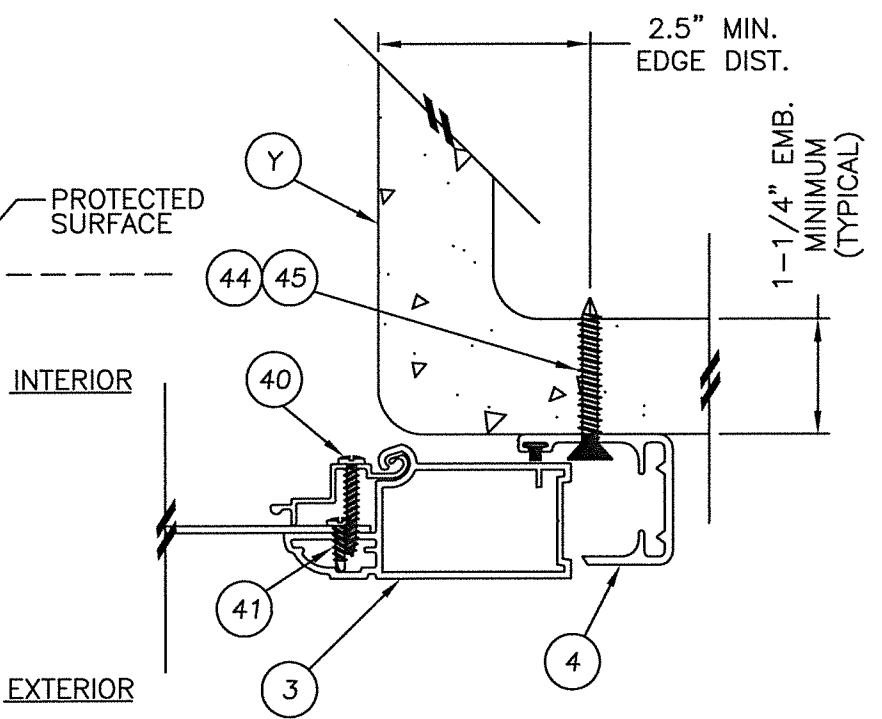
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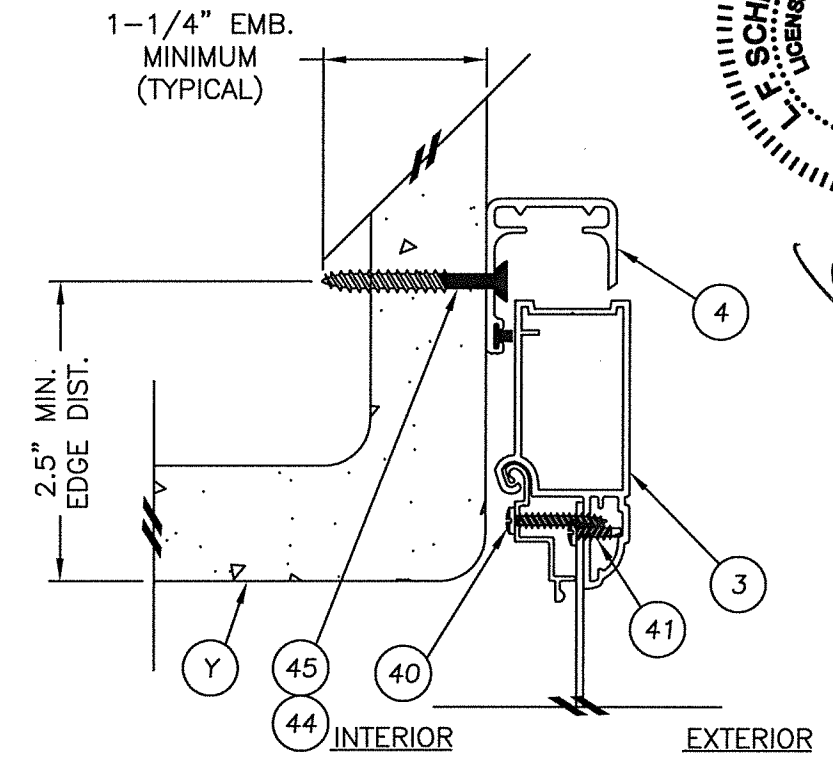
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4 LOCK ASS'Y REMOVED FOR CLARITY



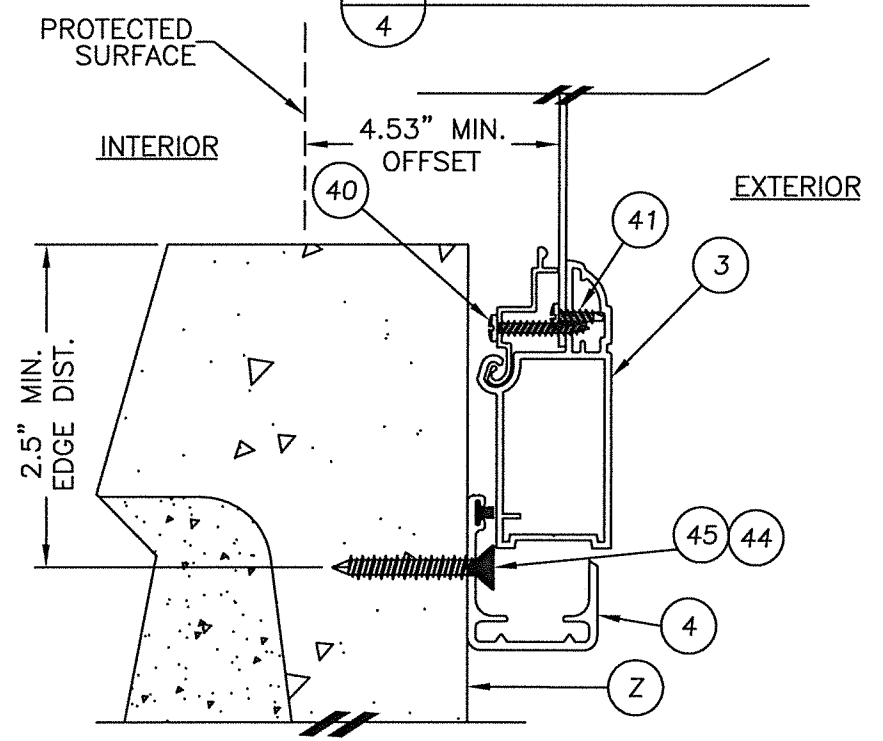
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4 LOCK ASS'Y REMOVED FOR CLARITY



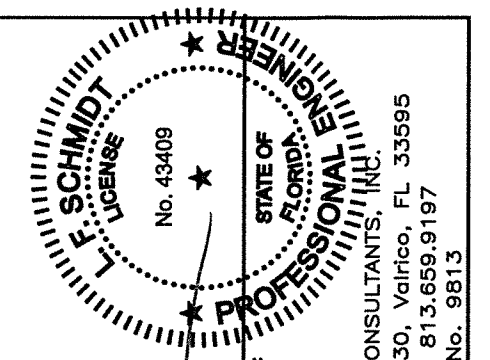
2 SURFACE MOUNT - STRIKE JAMB
4 HINGE REMOVED FOR CLARITY



3 SURFACE MOUNT - HEAD
4



4 SURFACE MOUNT - BASE
4



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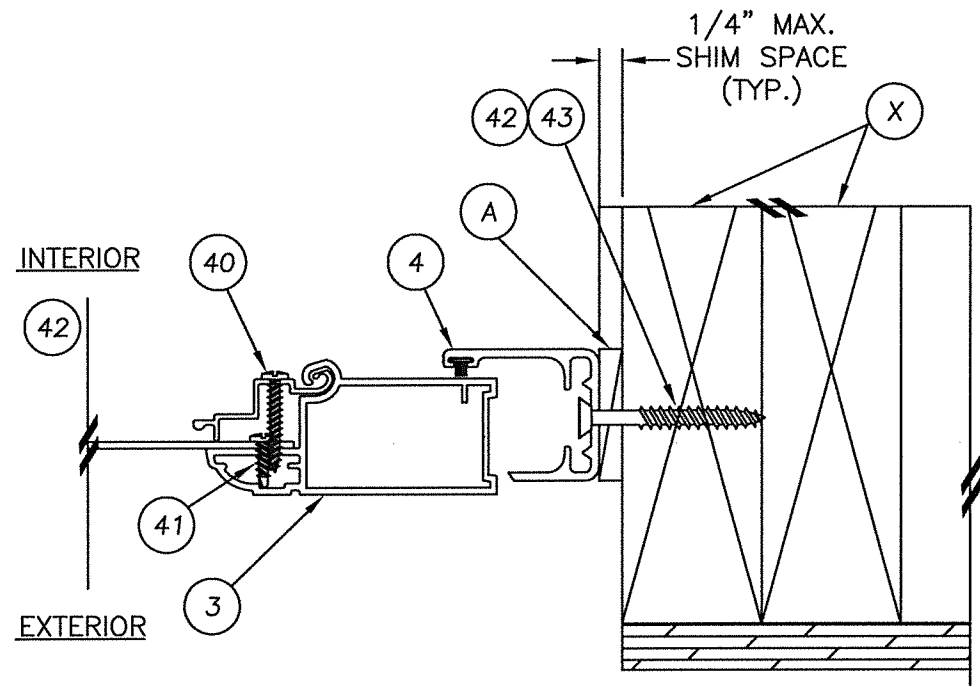
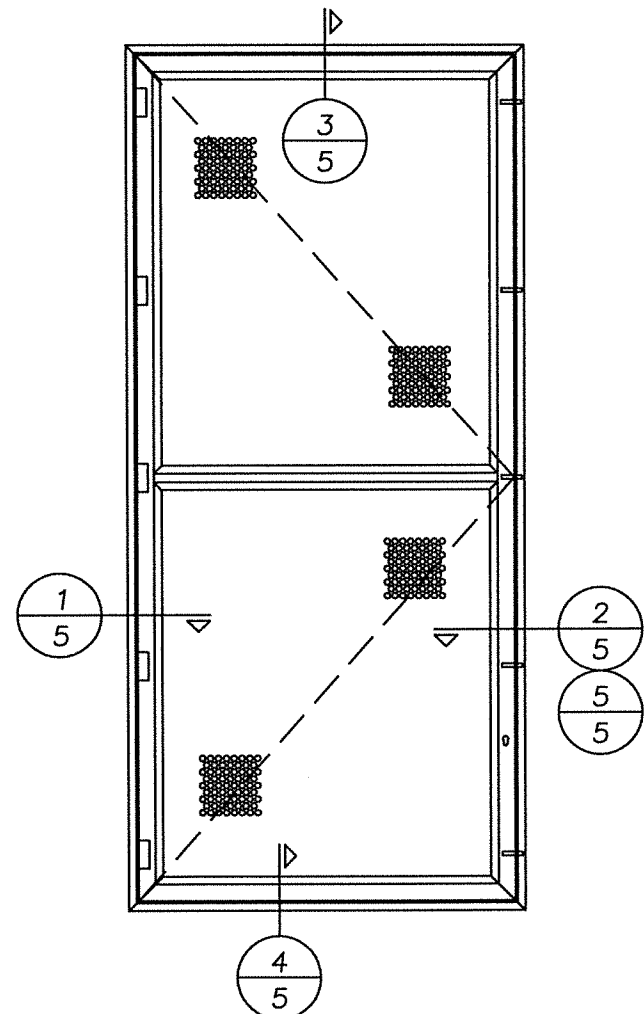
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PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
SURFACE MOUNT SECTIONS
MASONRY WALLS

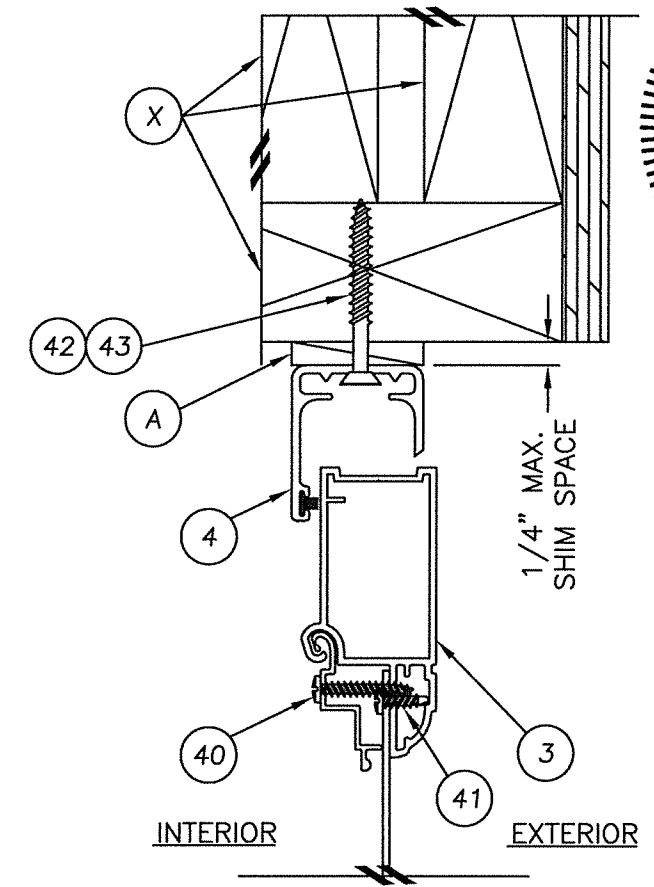
NO.	DATE	REVISIONS	BY
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
2	7/01/15	UPDATE TO 5TH ED. (2014) FBC	LFS
1	12/10/13	ADDED POROSITY D.P. RATING	LFS

DATE: 8/26/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-10238.1
SHEET 4 OF 12

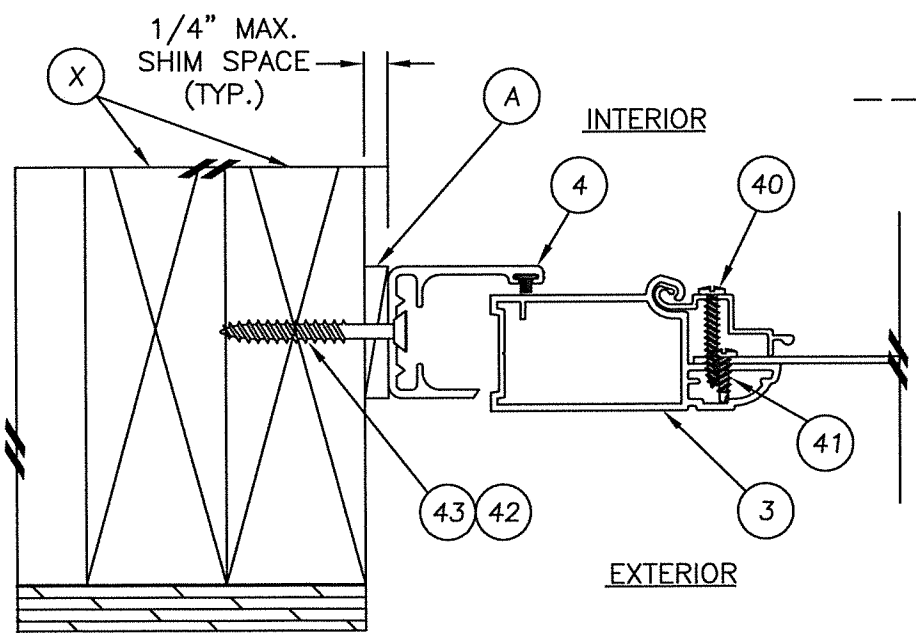
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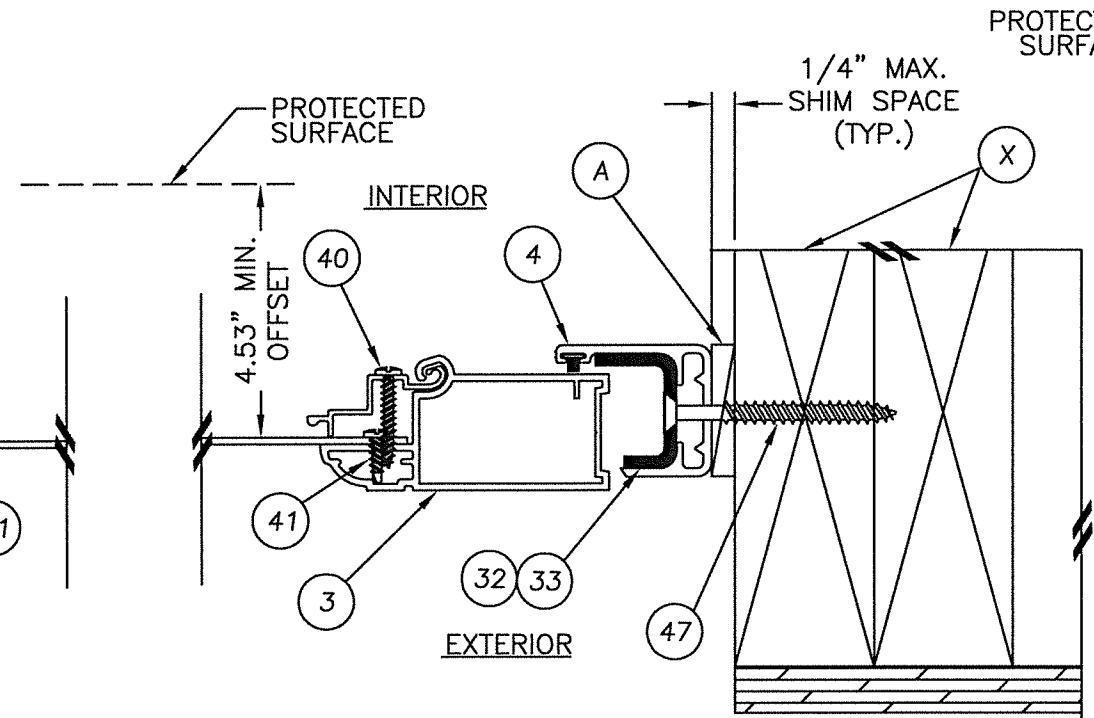
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5 LOCK REMOVED FOR CLARITY



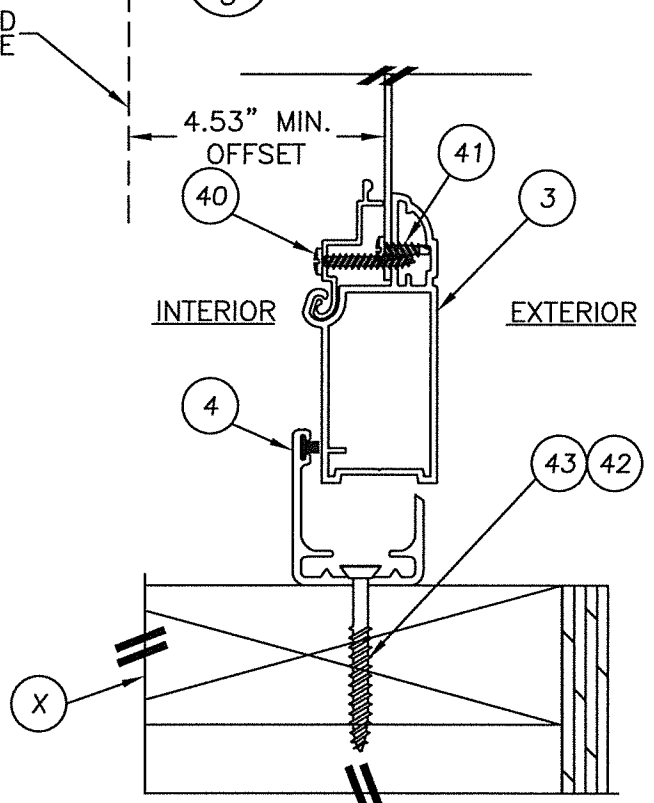
3 REVEAL MOUNT - HEAD
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1 REVEAL MOUNT - HINGE JAMB
5 HINGE REMOVED FOR CLARITY



2 REVEAL MOUNT - STRIKE JAMB
5 LOCK REMOVED FOR CLARITY



4 REVEAL MOUNT - BASE
5

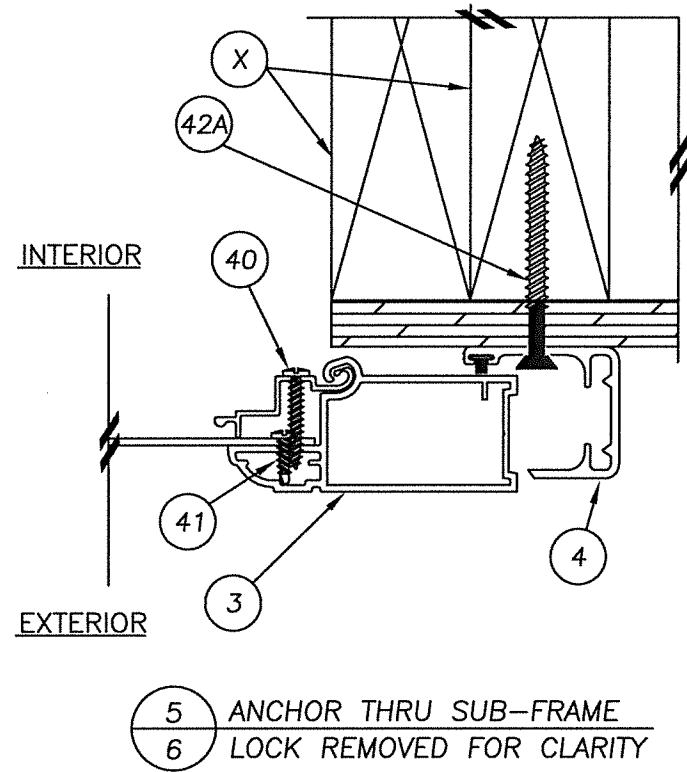
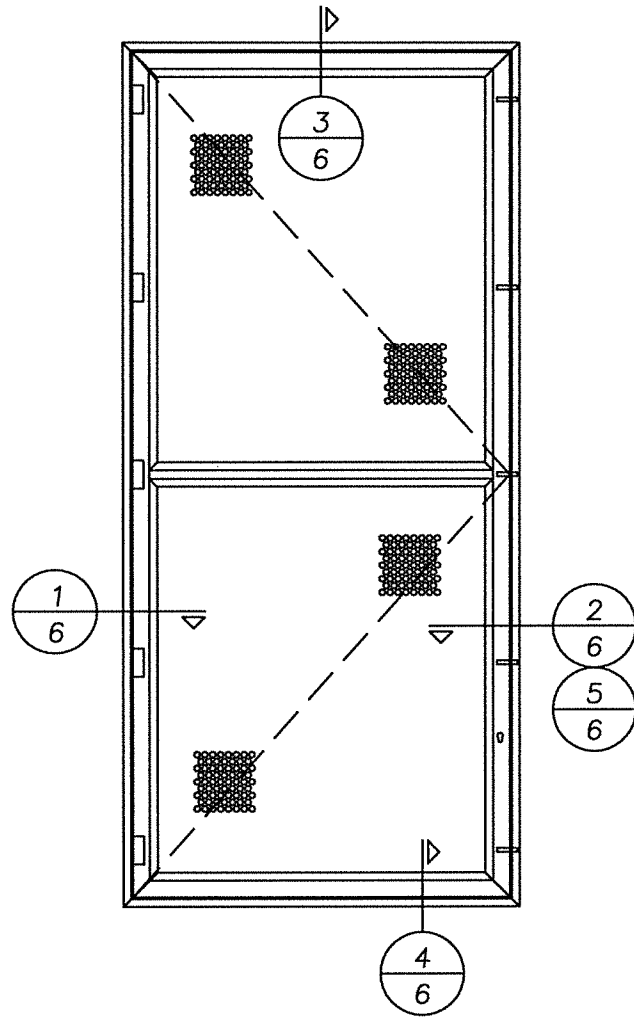
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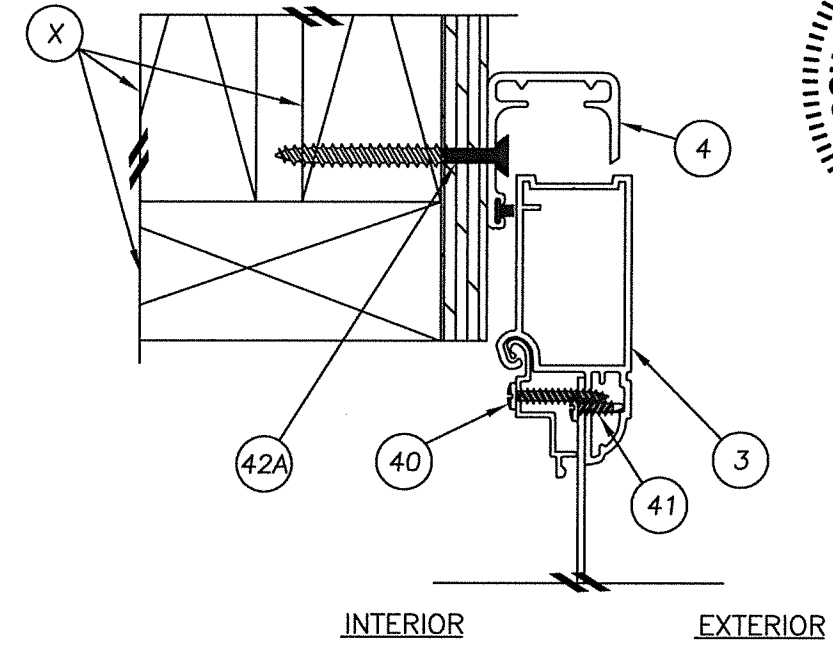
PRODUCT:
 KANE SCREENS
 VAN GUARD II
 ALUMINUM HURRICANE BARRIER
 PART OR ASSEMBLY:
 REVEAL MOUNT SECTIONS
 2X WOOD FRAMING

NO.	DATE	BY	REVISIONS
3	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC
2	7/01/15	LFS	UPDATE TO 5TH ED. (2014) FBC
1	12/10/13	LFS	ADDED POROSITY D.P. RATING

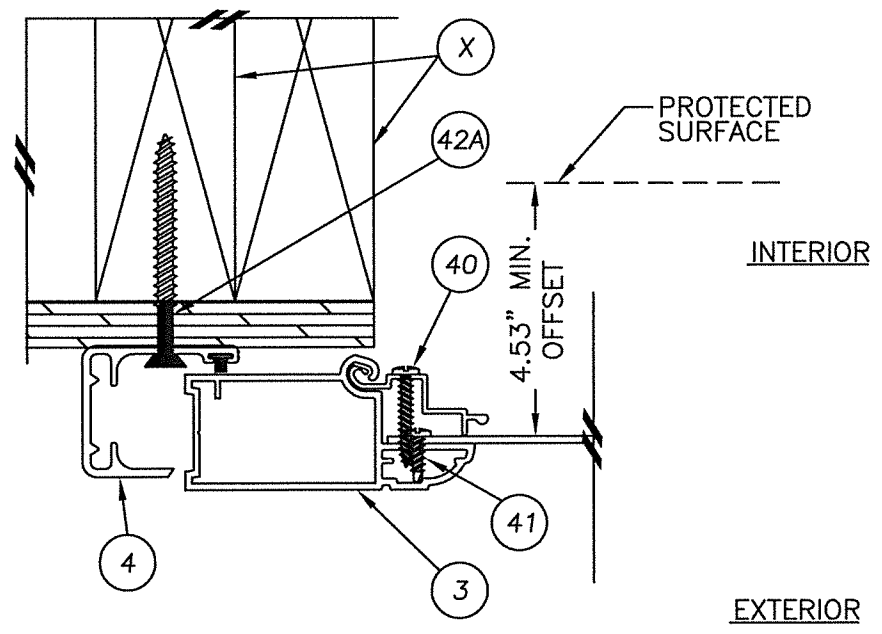
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 FL-10238.1
 SHEET 5 OF 12



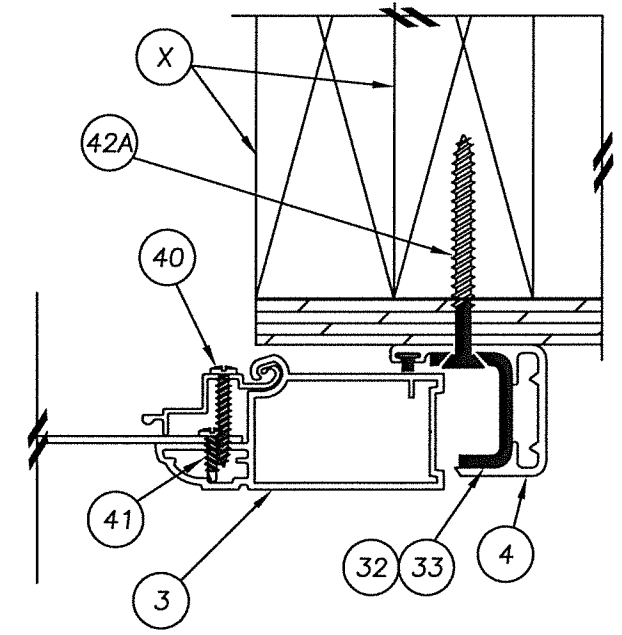
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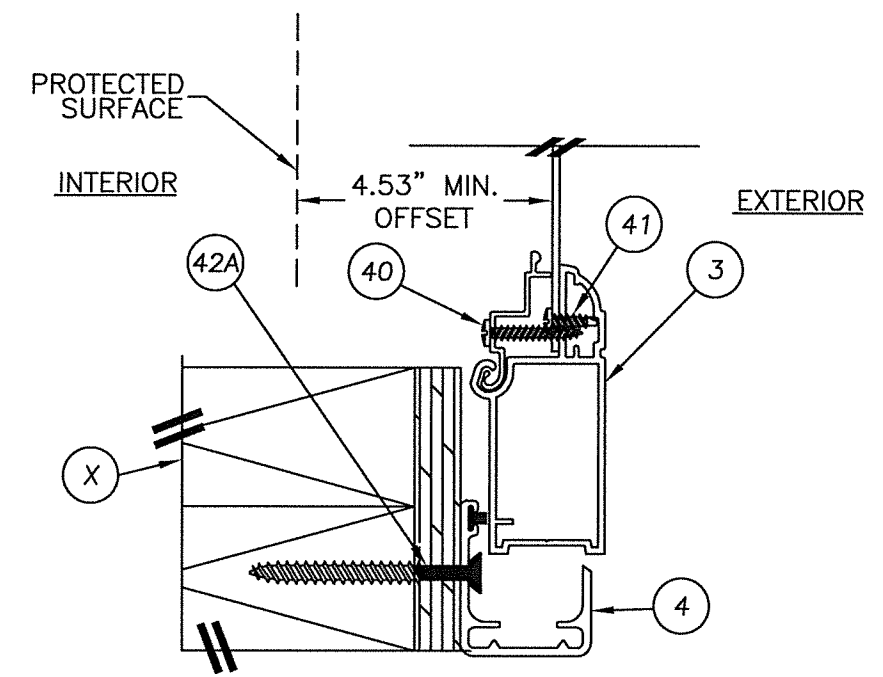
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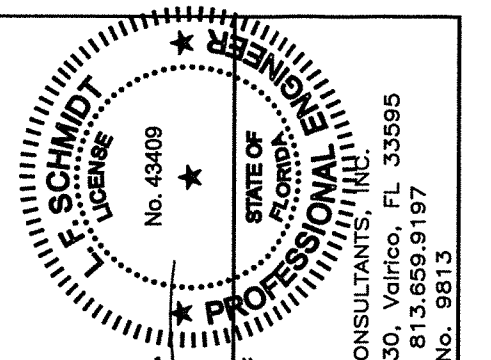
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6 HINGE REMOVED FOR CLARITY



2 ANCHOR THRU J-SHAPE STRIKE PLATE
6 LOCK REMOVED FOR CLARITY



4 SURFACE MOUNT - BASE
6

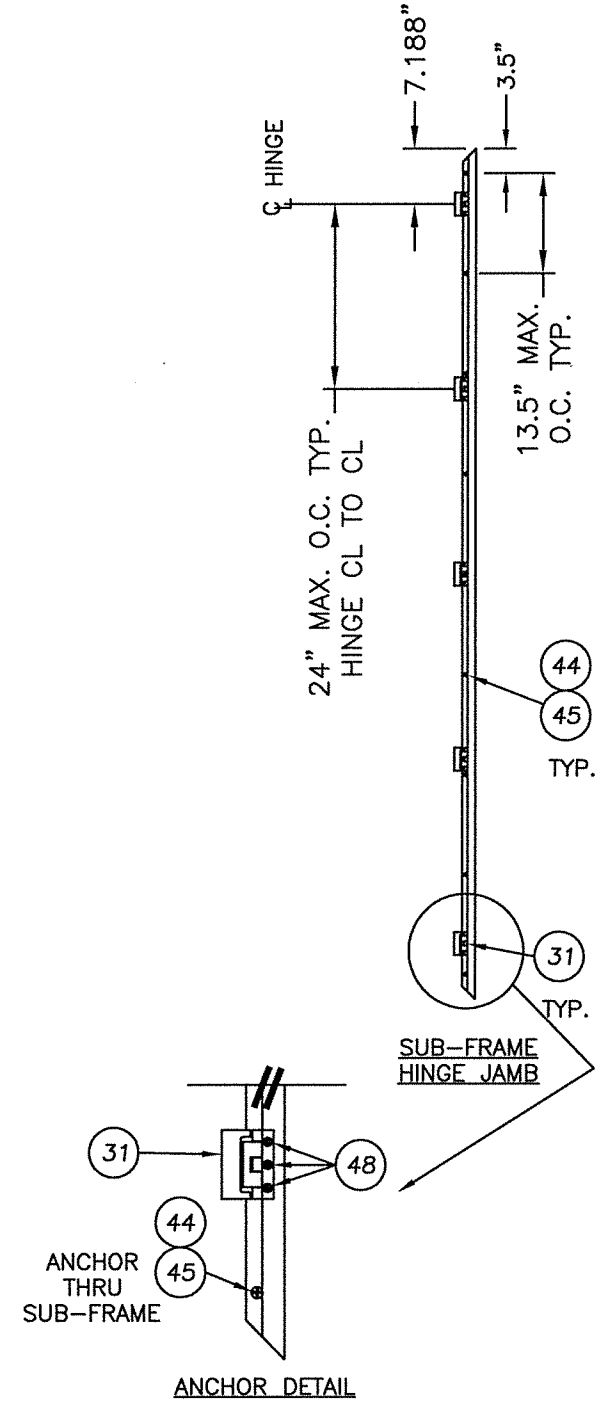
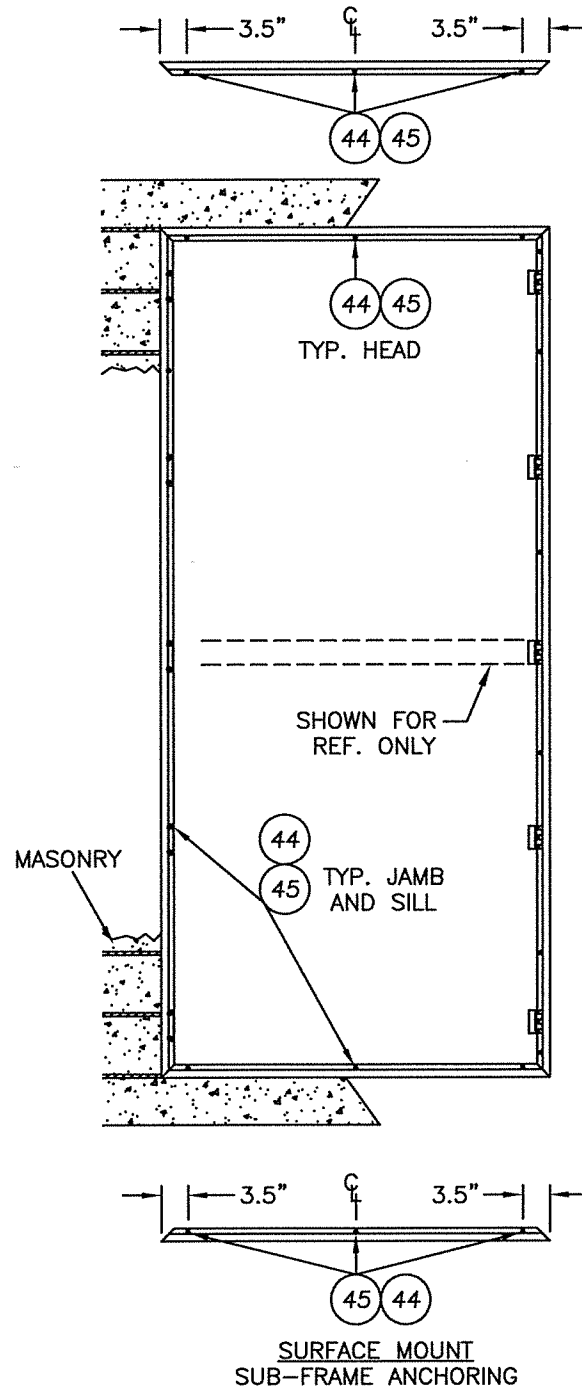
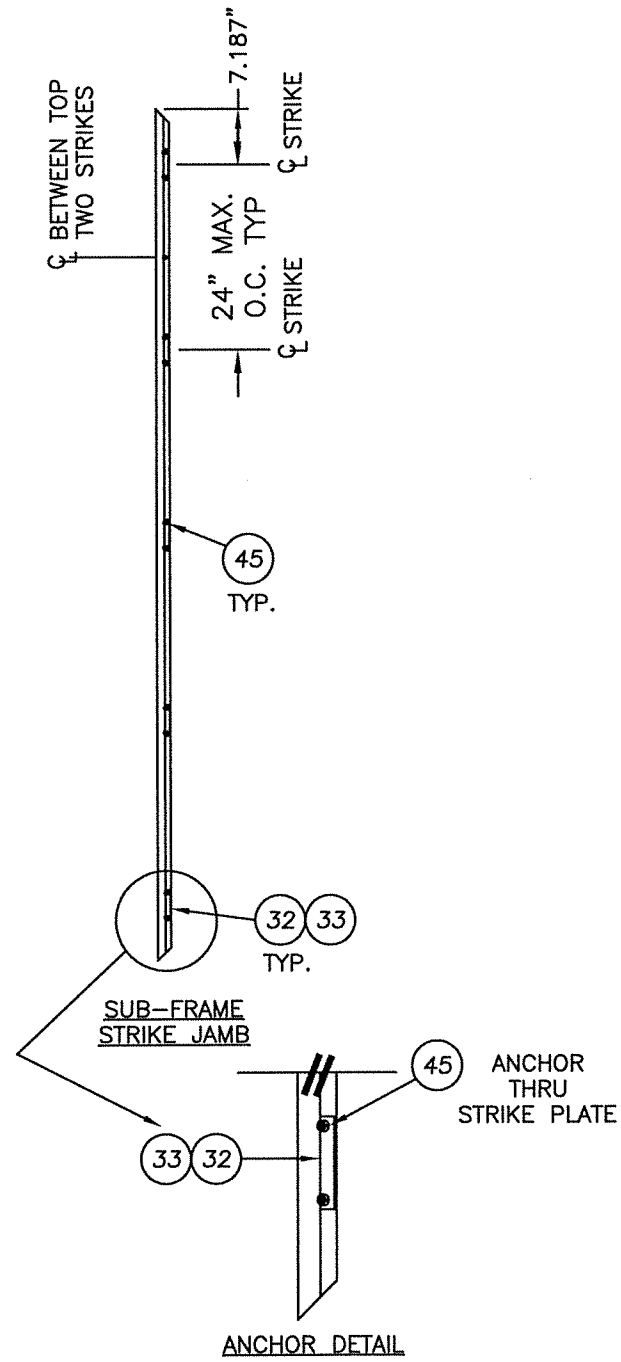


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PRODUCT:
KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
SURFACE MOUNT SECTIONS
2X WOOD FRAMING

NO.	DATE	REVISIONS
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC
2	7/01/15	UPDATE TO 5th ED. (2014) FBC
1	12/10/13	ADDED POROSITY D.P. RATING
		NO. DATE

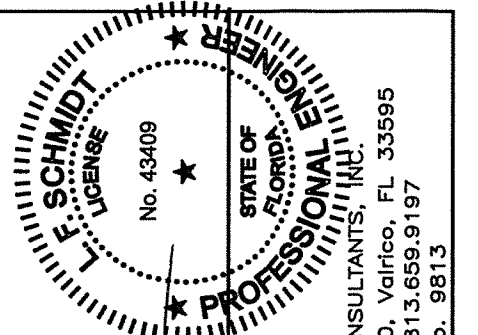
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-10238.1
SHEET 6 OF 12



CONCRETE ANCHOR NOTES:

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4" (3-1/8" @ STRIKE)



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FBPE C.A. No. 9813

PRODUCT: KANE SCREENS VAN GUARD II ALUMINUM HURRICANE BARRIER PART OR ASSEMBLY: SURFACE MOUNT ANCHORING MASONRY WALL

NO.	DATE	REVISIONS
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC JK
2	7/01/15	UPDATE TO 5th ED. (2014) FBC LFS
1	12/10/13	ADDED POROSITY D.P. RATING LFS
		BY

DATE: 8/26/13

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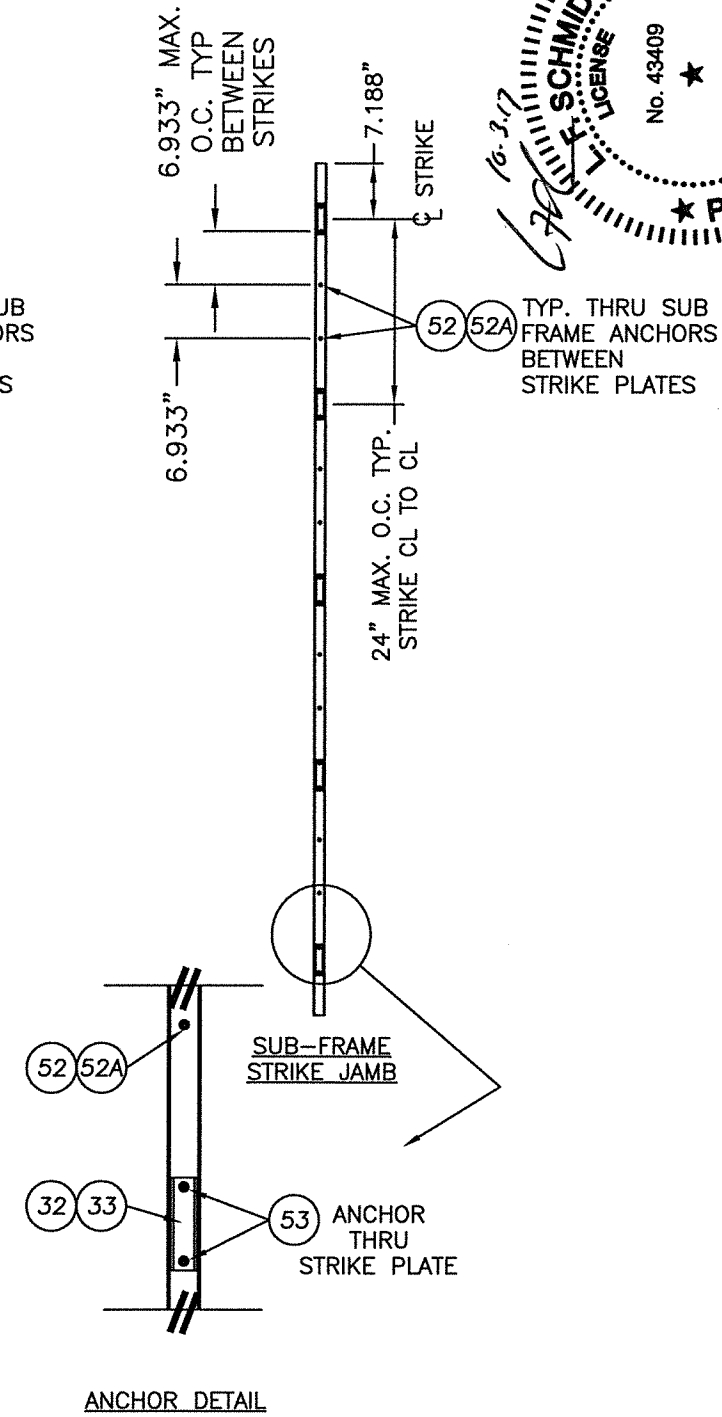
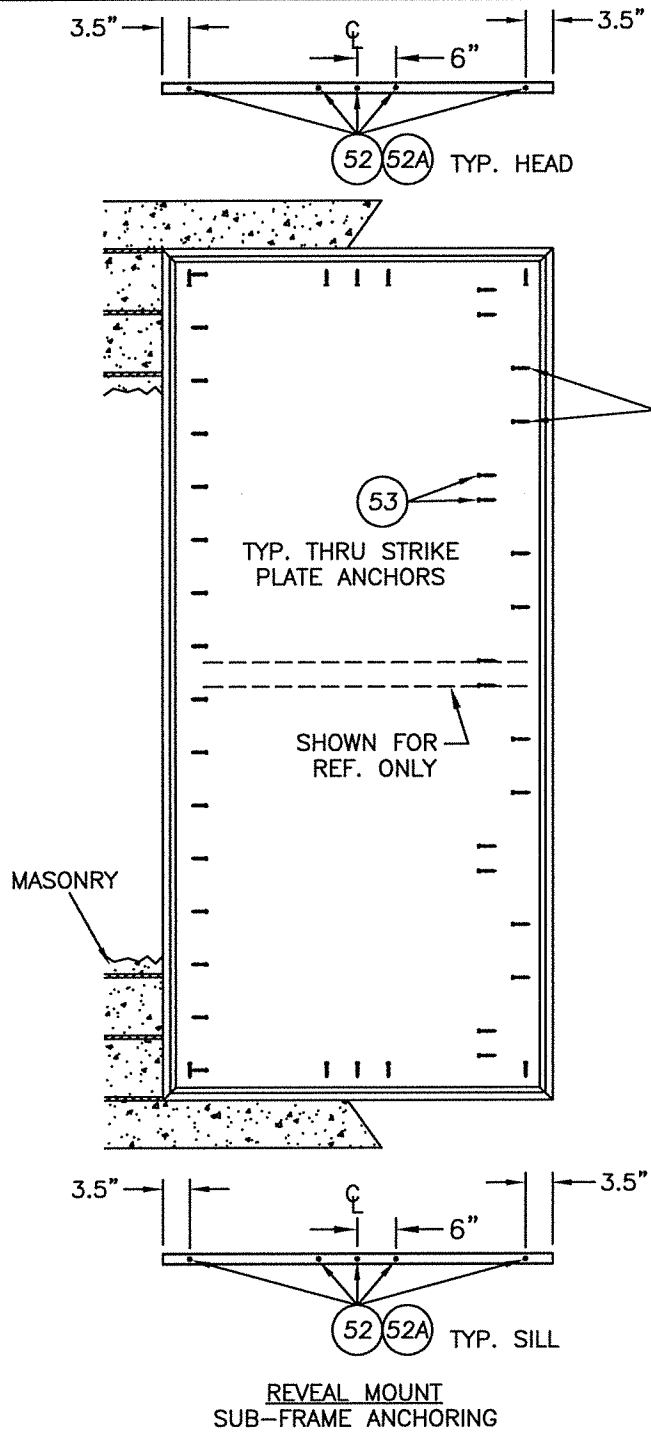
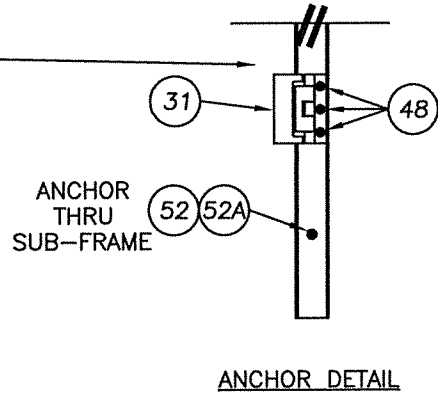
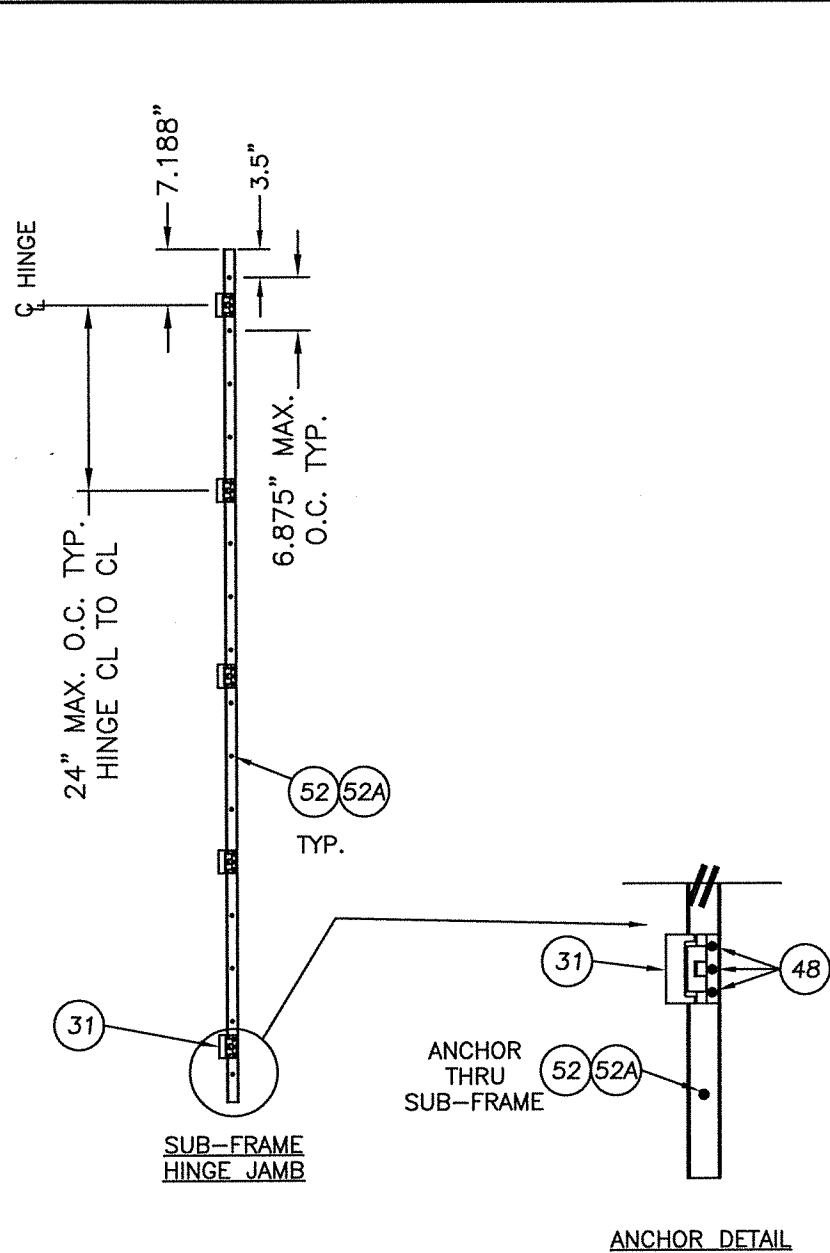
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DRAWING NO.:

FL-10238.1

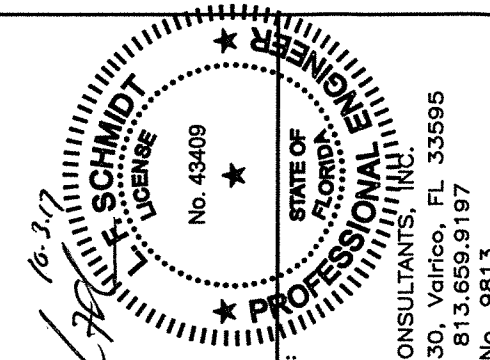
SHEET 7 OF 12



CONCRETE ANCHOR NOTES:

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ELCO ULTRACON®	5/16"	1-1/4"	3-1/8"	6" (3-1/8" @ STRIKE)



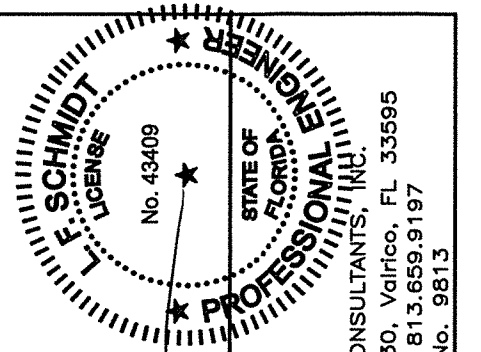
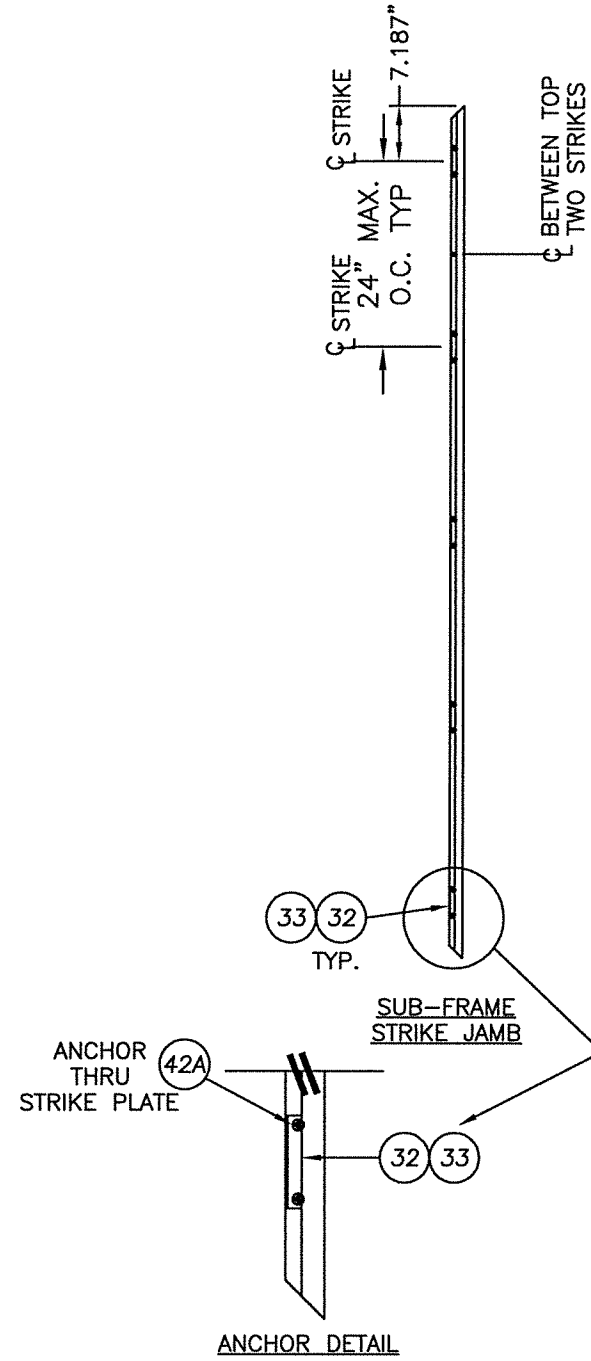
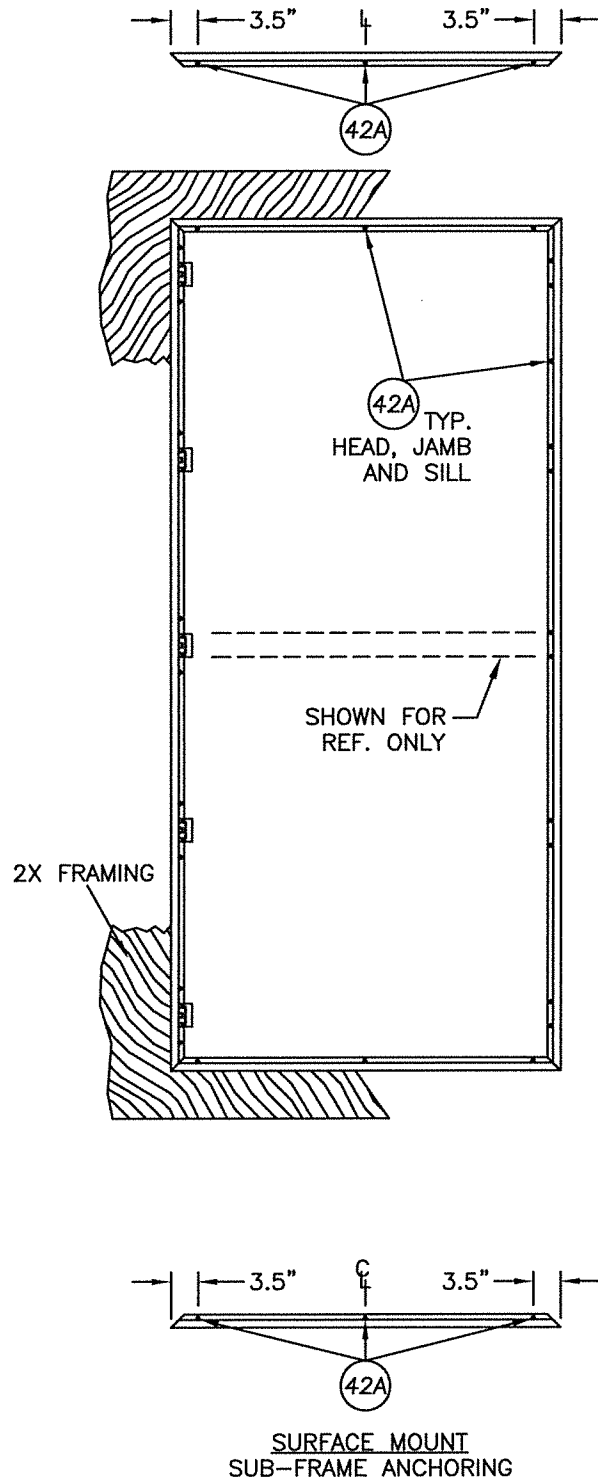
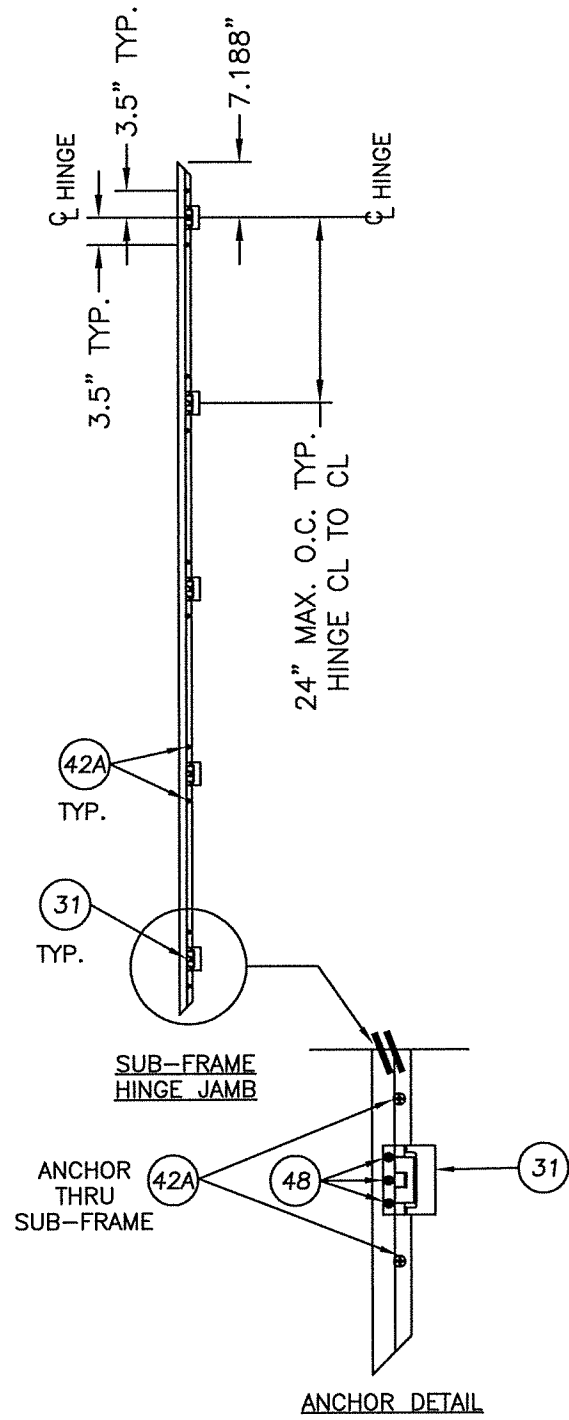
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P.O. Box 230, Valrico, FL 33595
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FBPE C.A. No. 9813

PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
REVEAL MOUNT ANCHORING
MASONRY WALL

NO.	DATE	REVISIONS	BY
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
2	7/01/15	UPDATE TO 5th ED. (2014) FBC	LFS
1	12/10/13	ADDED POROSITY D.P. RATING	LFS

DATE: 8/26/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-10238.1
SHEET 8 OF 12



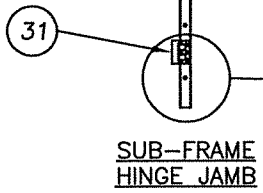
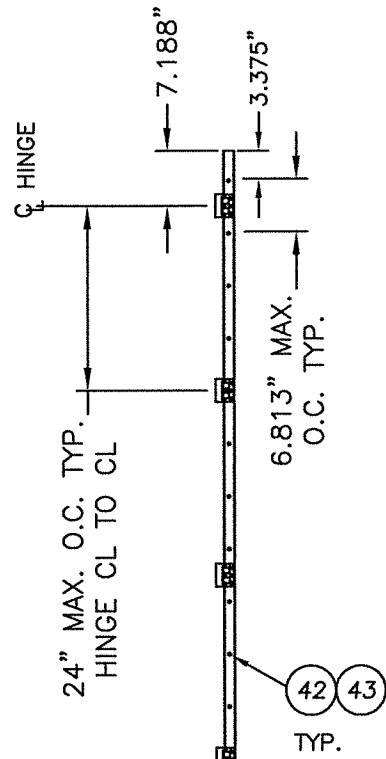
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE, C.A. No. 9813

PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
SURFACE MOUNT ANCHORING
2X WOOD FRAMING

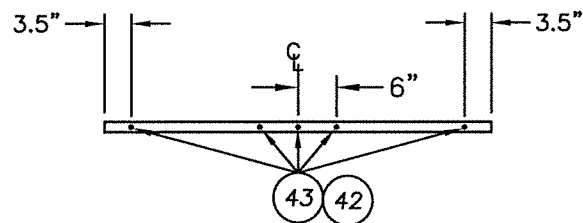
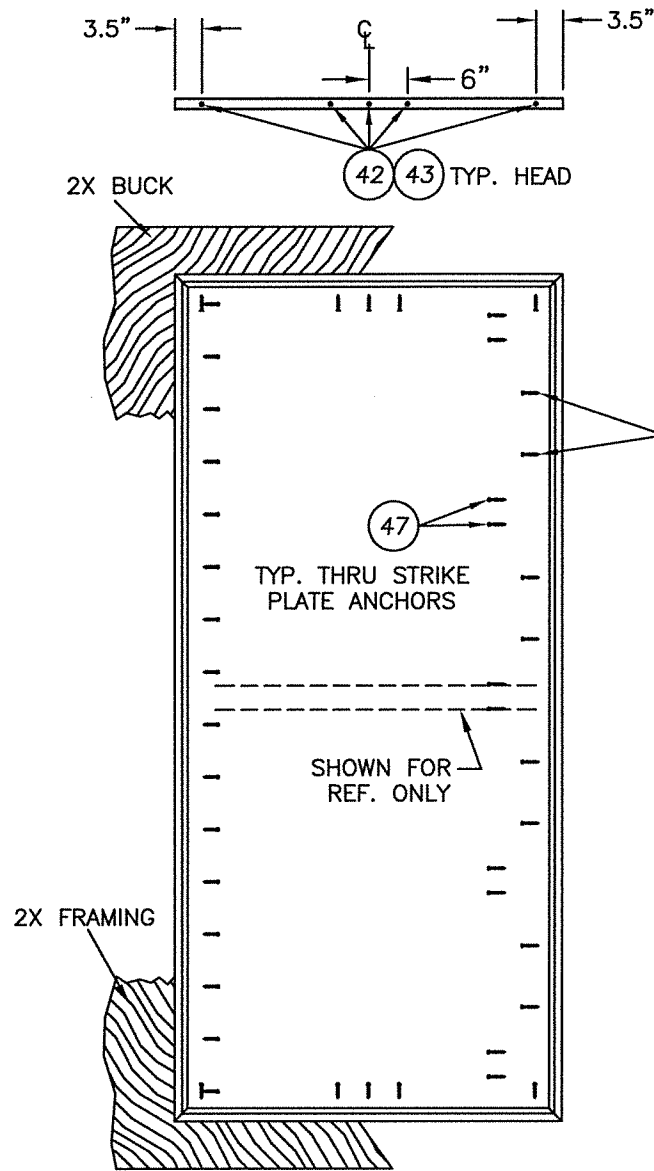
NO.	DATE	REVISIONS
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC
2	7/01/15	UPDATE TO 5TH ED. (2014) FBC
1	12/10/13	ADDED POROSITY D.P. RATING

DATE: 8/26/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-10238.1
SHEET 9 OF 12

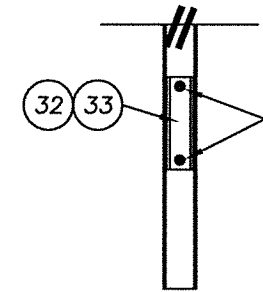
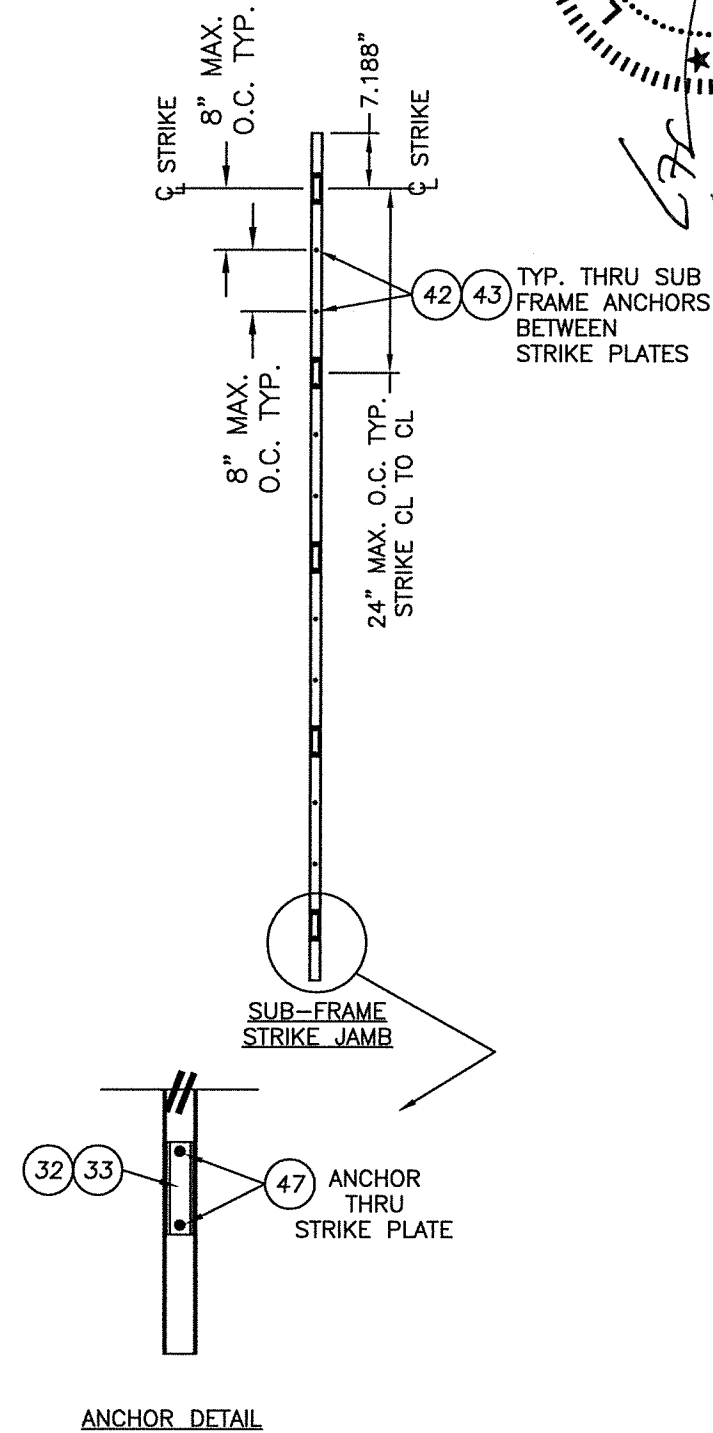


ANCHOR THRU SUB-FRAME

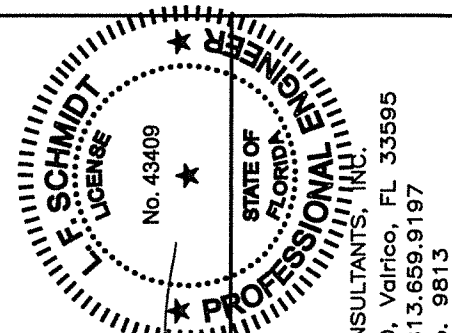
ANCHOR DETAIL



REVEAL MOUNT SUB-FRAME ANCHORING



ANCHOR DETAIL



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PRODUCT:
KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
REVEAL MOUNT ANCHORING
2X WOOD FRAMING

NO.	DATE	REVISIONS
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DATE: 8/26/13

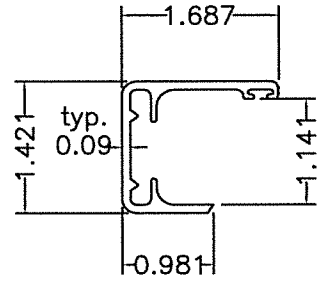
SCALE: N.T.S.

DWG. BY: JK

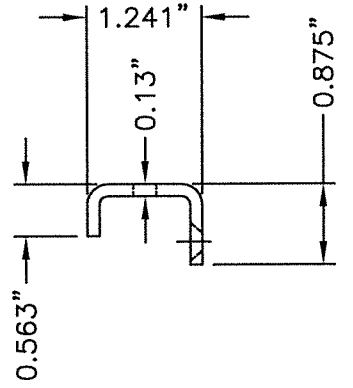
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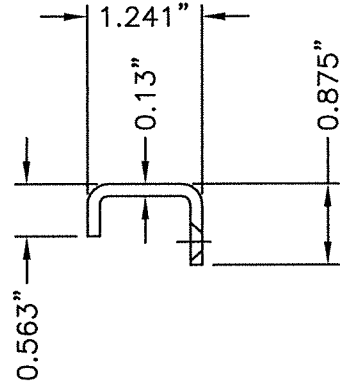
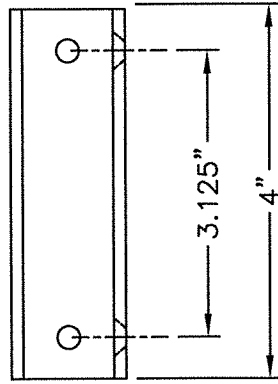
SHEET 10 OF 12



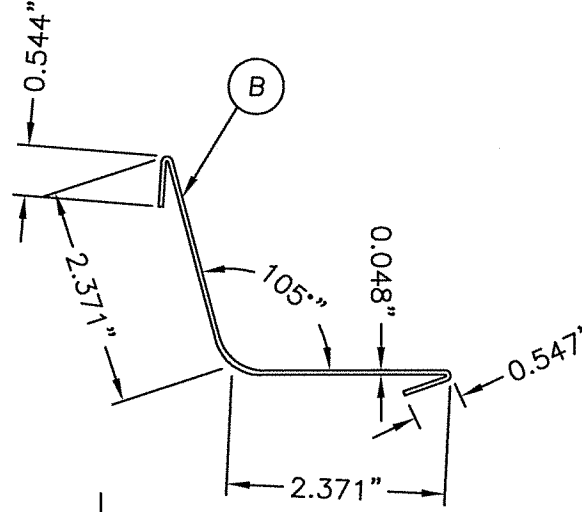
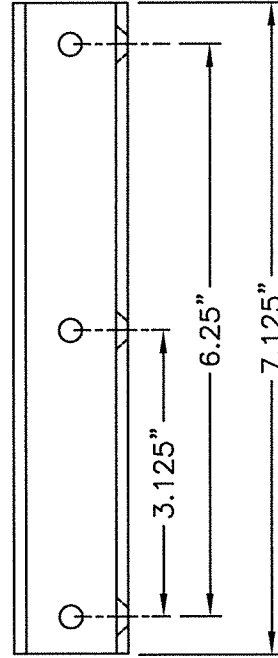
4 SUB FRAME



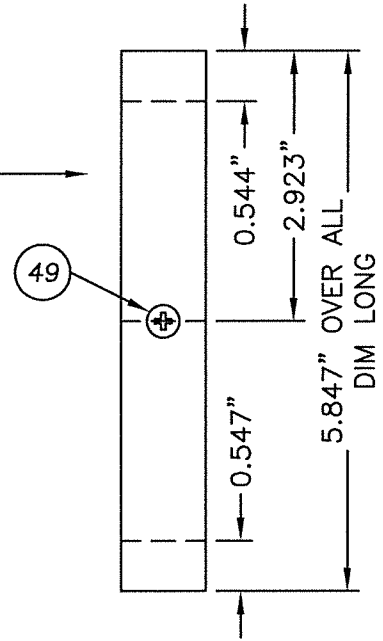
32 J STRIKE PLATE



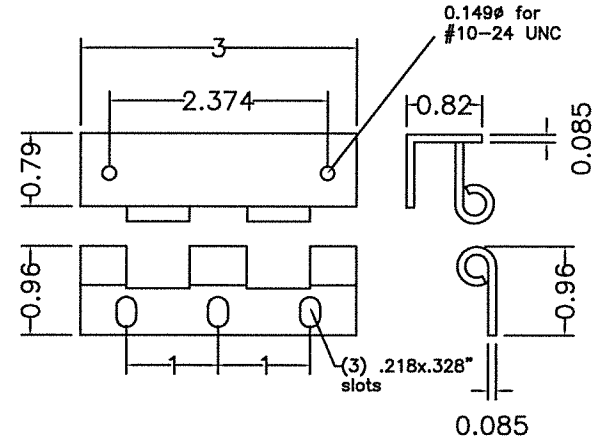
33 EXTENDED J STRIKE PLATE



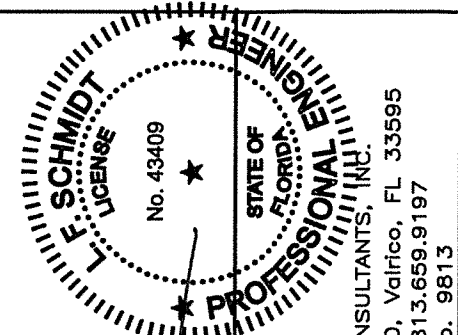
B MAIN FRAME CORNER SIDE VIEW



B MAIN FRAME CORNER ANGLE WRAP



31 TYPICAL HINGE



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PRODUCT: KANE SCREENS
VAN GUARD II
ALUMINUM HURRICANE BARRIER
PART OR ASSEMBLY:
COMPONENTS
AND HARDWARE DETAILS

NO.	DATE	REVISIONS
3	9/26/17	UPDATE TO 6TH ED. (2017) FBC JK
2	7/01/15	UPDATE TO 5th ED. (2014) FBC LFS
1	12/10/13	ADDED POROSITY D.P. RATING LFS
		BY

DATE: 8/26/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-10238.1

SHEET 11 OF 12

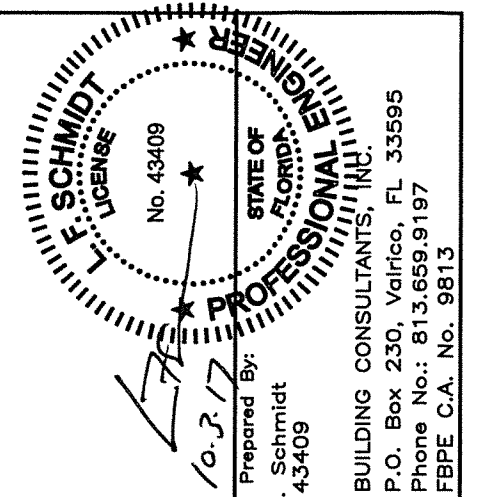
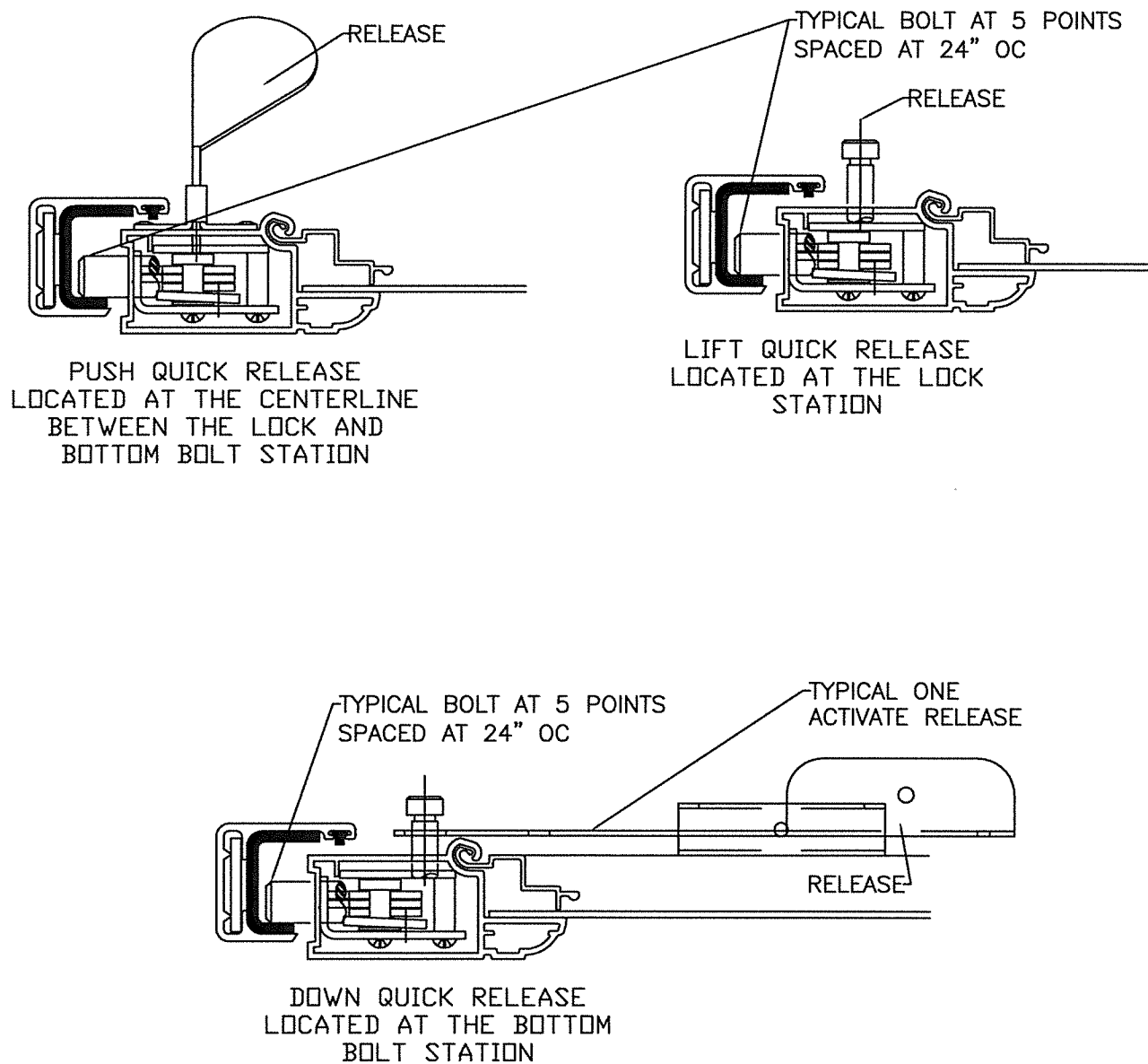
R:\Clients\Kane PERMANENT\A - Florida Product Approvals\FL-10238C - Drawings\FL 10238 (2017)\FL-10238.1-2.dwg, 12.1

BILL OF MATERIALS (ANCHOR)		
ITEM	DESCRIPTION	MATERIAL
S1	SCREEN DETAIL (STAINLESS STEEL)	STEEL
X	2X FRAMING (SG >= 0.55)	WOOD
Y	HOLLOW BLOCK CMU (ASTM C90)	CONCRETE
Z	CONCRETE MASONRY (3000 PSI MIN. - ACI 301)	CONCRETE
A	1/4" MAX. SHIM	WOOD
B	MAIN FRAME CORNER ANGLE WRAP	STEEL
3	MAIN FRAME 6063-T6	ALUMINUM
4	SUB FRAME 6063-T6	ALUMINUM
5	HORIZONTAL BRACE 6063-T6	ALUMINUM
6	MAINFRAME COVER 6063-T6	ALUMINUM
7	MAIN FRAME CORNER KEY 6063-T6	ALUMINUM
8	MAIN FRAME SECONDARY CORNER KEY 6063-T6	ALUMINUM
9	HORIZONTAL BRACE CORNER KEY 6063-T6	ALUMINUM
30	LOCK ASSEMBLY	STEEL
31	HINGE ASSEMBLY (TYPE 304 STAINLESS STEEL)	ST. STEEL
32	J STRIKE PLATE (TYPE 304 STAINLESS STEEL)	ST. STEEL
33	EXTENDED J STRIKE PLATE (TYPE 304 STAINLESS STEEL)	ST. STEEL
40	#8 X 1" SQ DRIVE PAN HEAD SMS	ST. STEEL
41	#8 X 1/2 SELF-TAP SQ HEAD SMS	ST. STEEL
42	#14 X 2" PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
42A	#14 X 2-1/2" PFH WOOD SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
43	#14 X 2" PAN HEAD SMS (1-1/2" MIN. EMBEDMENT)	STEEL
44	1/4" X 1-3/4" HWH ITW TAPCON CONCRETE SCREW	STEEL
45	1/4" X 1-3/4" PFH ITW TAPCON CONCRETE SCREW	STEEL
46	1/4" X 2-1/4" HWH ITW TAPCON CONCRETE SCREW	STEEL
46A	1/4" X 2-1/4" PFH ITW TAPCON CONCRETE SCREW	STEEL
47	#14 X 2-1/2" PFH WOOD SCREW (1-5/8" MIN. EMBEDMENT)	STEEL
48	#10 X 3/8" SELF-TAP HWH-SLOTTED SCREW	STEEL
50	#10 X 1-1/4" SELF DRILLING TAPPING SCREW	ST. STEEL
51	#10 X 3/8" THREAD CUTTING SCREW	ST. STEEL
52	5/16" X 1-3/4" HWH ELCO ULTRACON CONCRETE SCREW	STEEL
52A	5/16" X 1-3/4" PFH ELCO ULTRACON CONCRETE SCREW	STEEL
53	5/16" X 2-1/4" PFH ELCO ULTRACON CONCRETE SCREW	STEEL

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 3/4" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

LOCK RELEASE OPTIONS



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PRODUCT:		KANE SCREENS VAN GUARD II ALUMINUM HURRICANE BARRIER PART OR ASSEMBLY:		BILL OF MATERIALS & LOCK RELEASE OPTIONS	
		JK	LFS	LFS	BY
	3	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	
	2	7/01/15	UPDATE TO 5th ED. (2014)	FBC	
	1	12/10/13	ADDED POROSITY D.P. RATING		
	NO.	DATE			
REVISIONS					
DATE: 8/26/13					
SCALE: N.T.S.					
DWG. BY: JK					
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DRAWING NO.: FL-10238.1					
SHEET 12 OF 12					