

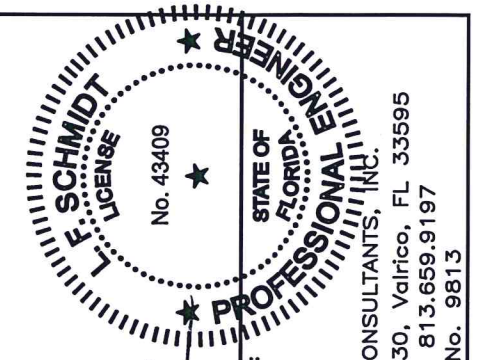
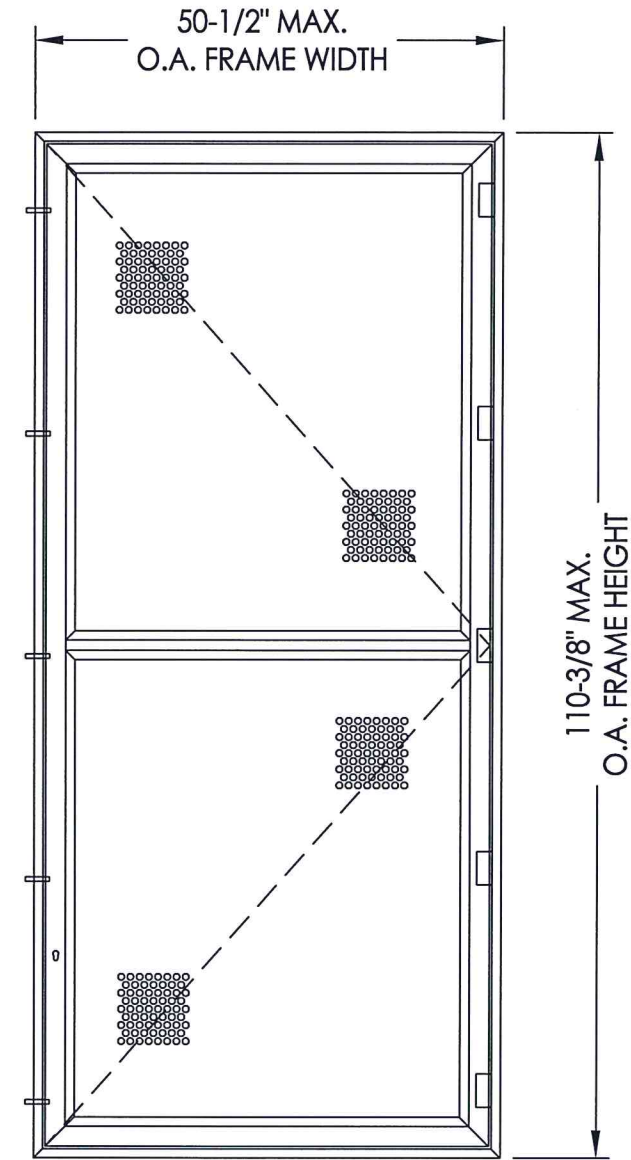


515 N. FRALEY STREET  
KANE, PA 16735  
PH. (814) 837-6464

# VAN GUARD II ALUMINUM HURRICANE BARRIER OUTSWING "IMPACT"

### GENERAL NOTES

1. This product has been evaluated and is in compliance with the 5th Edition (2014) 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.



Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409  
7.2.15

R.W. BUILDING CONSULTANTS, INC.  
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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
2	7/01/15	UPDATE TO 5th ED. (2014) FBC
1	12/10/13	ADDED POROSITY D.P. RATING

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2	Barrier panel sections, components & screen details
3	Reveal mount sections - masonry wall
4	Surface mount sections - masonry wall
5	Reveal mount sections - 2x wood framing
6	Surface mount sections - 2x wood framing
7	Surface mount anchoring - masonry wall
8	Reveal mount anchoring - masonry wall
9	Surface mount anchoring - 2x wood framing
10	Reveal mount anchoring - 2x wood framing
11	Components and hardware details
12	Bill of materials & lock release options

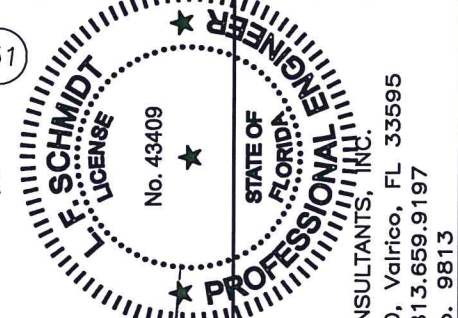
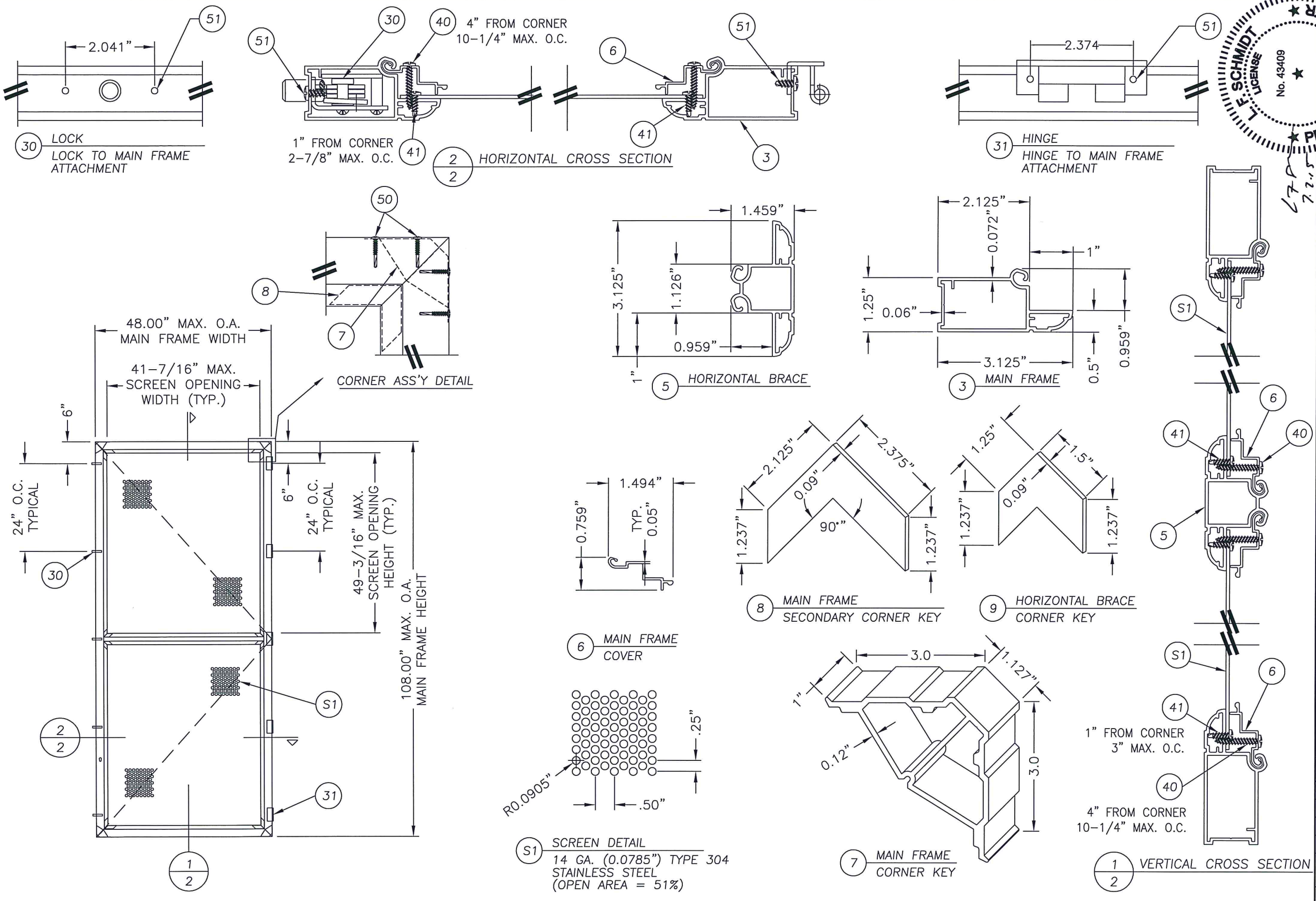
MOUNTING STYLE	OVERALL FRAME DIMENSION	SCREEN OPENING DIMENSION	DESIGN PRESSURE (PSF) (without Porosity Factor)		DESIGN PRESSURE (PSF) (with Porosity Factor*)	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
REVEAL MOUNT	50.50"	41.78"	70.0	70.0	110.0	110.0
SURFACE MOUNT	110.375"	49.18"	70.0	70.0	110.0	110.0

\* 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.

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



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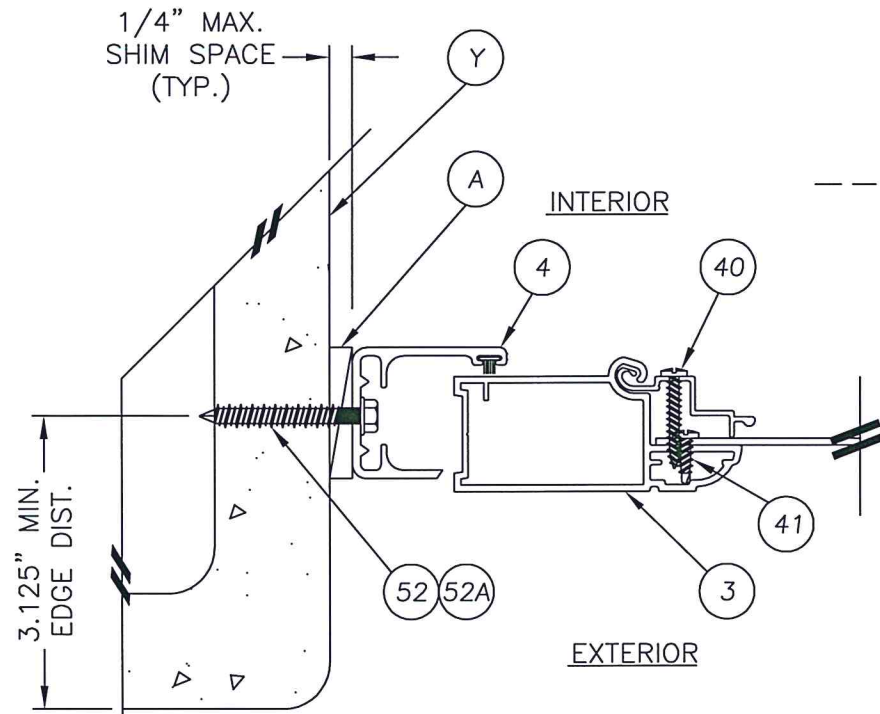
PRODUCT:  
 KANE SCREENS  
 VAN GUARD II  
 ALUMINUM HURRICANE BARRIER  
 PART OR ASSEMBLY:  
 BARRIER PANEL SECTIONS,  
 COMPONENTS & SCREEN DETAILS

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

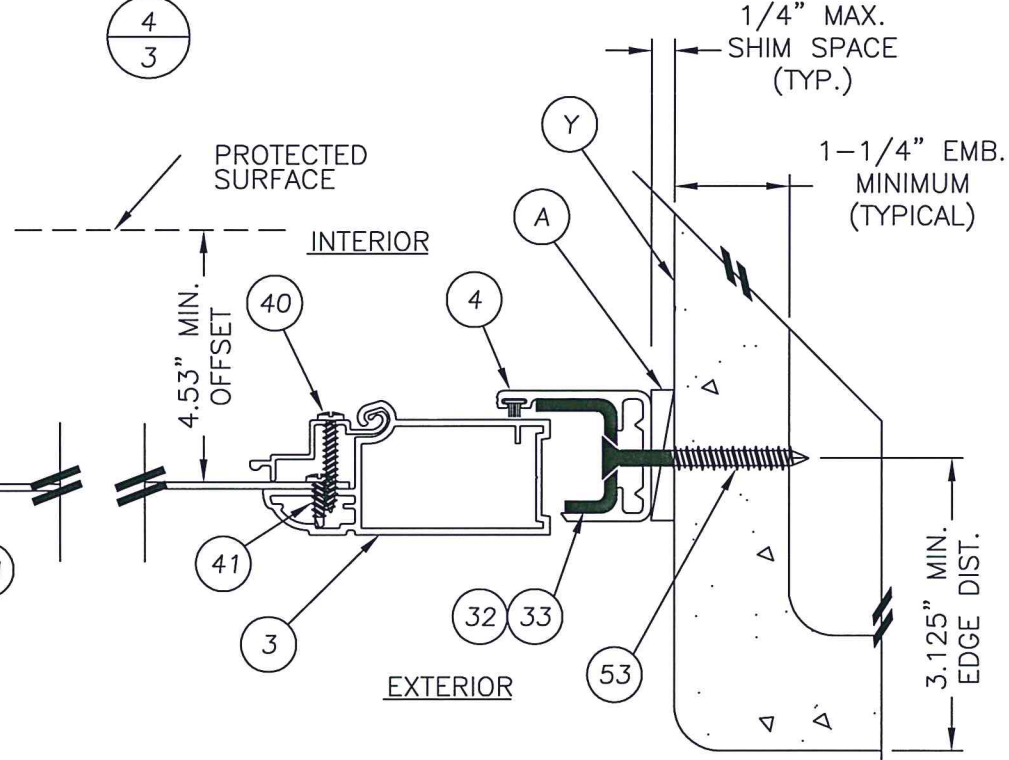
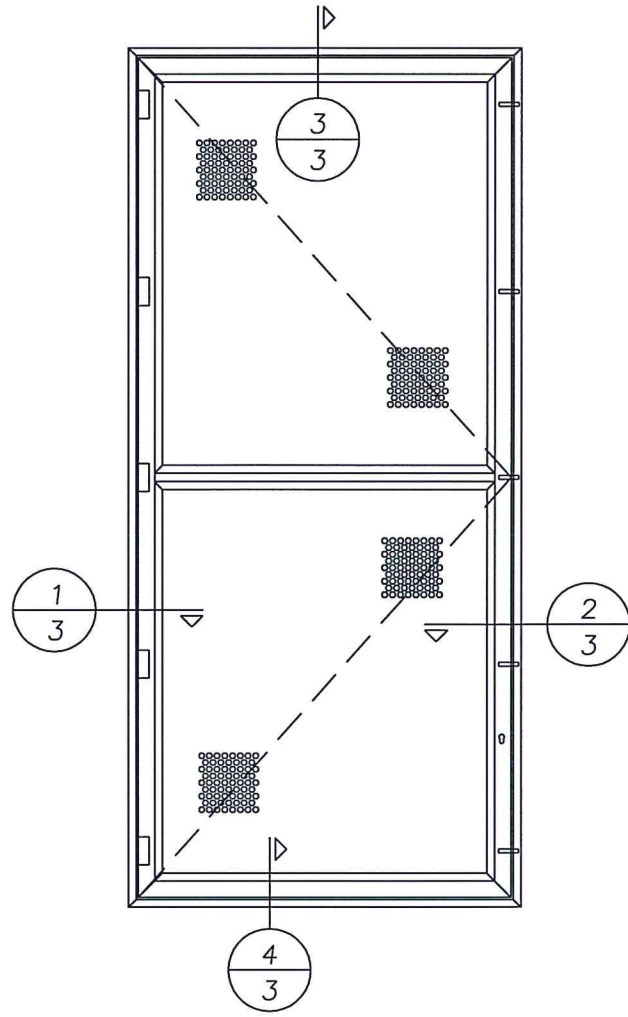
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 SCALE: N.T.S.  
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 CHK. BY: LFS  
 DRAWING NO.: FL-10238.1  
 SHEET 2 OF 12

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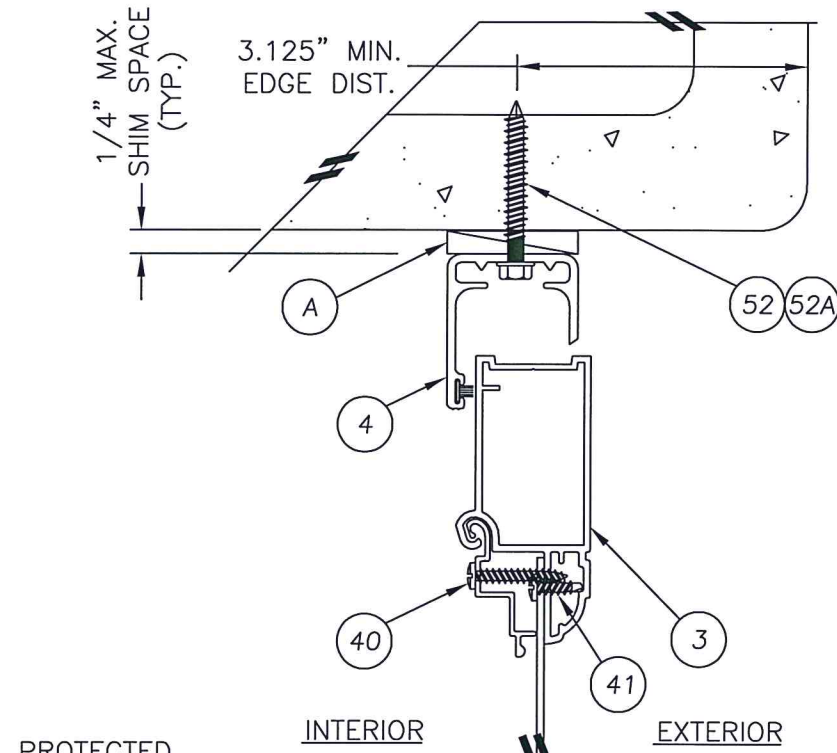




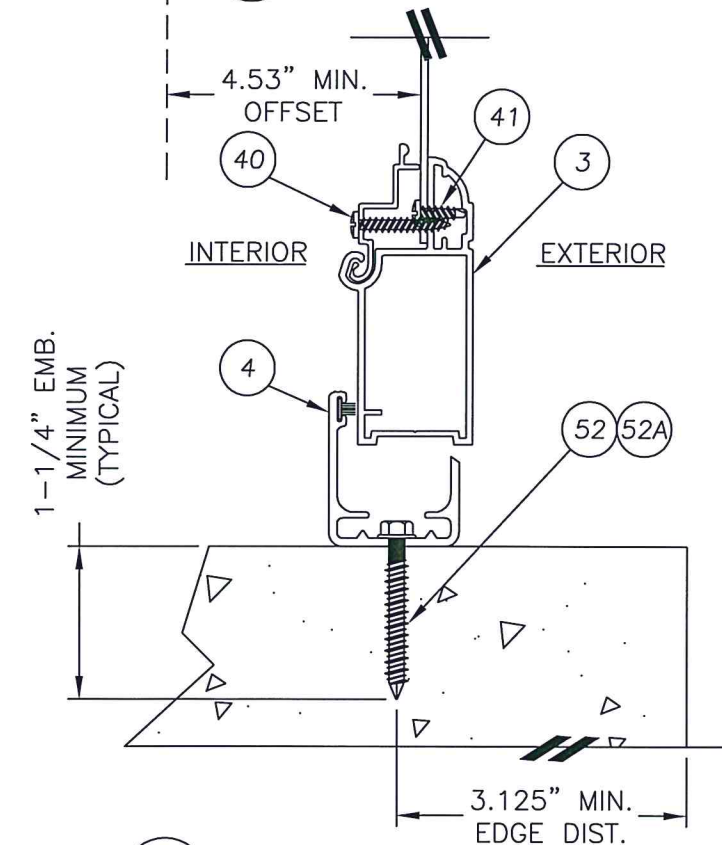
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3 HINGE REMOVED FOR CLARITY



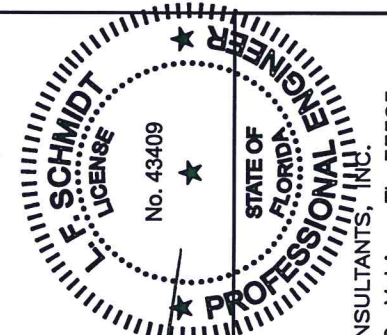
2 REVEAL MOUNT - STRIKE JAMB  
3 LOCK REMOVED FOR CLARITY



3 REVEAL MOUNT - HEAD



4 REVEAL MOUNT - BASE



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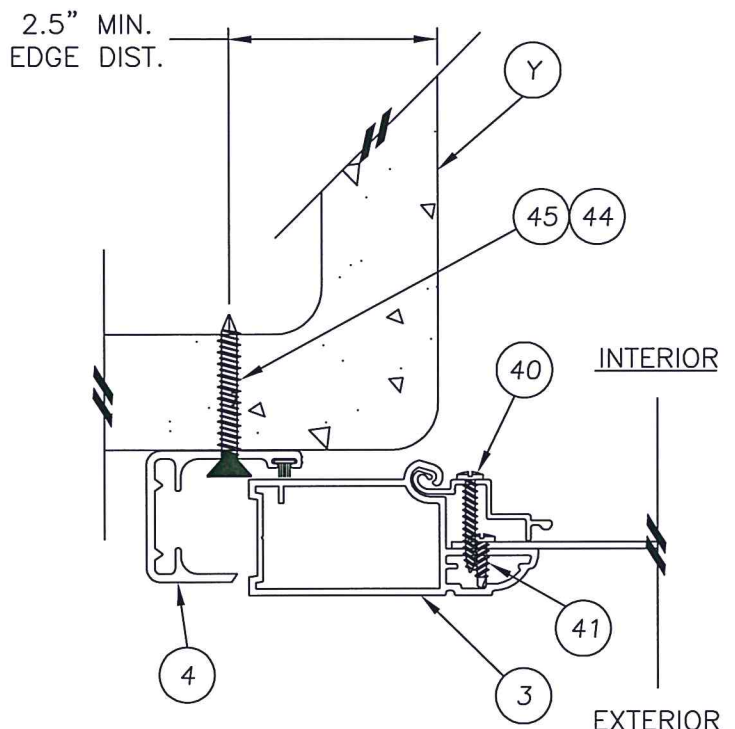
**RW** BUILDING CONSULTANTS, INC.  
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PRODUCT:  
KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY:  
REVEAL MOUNT SECTIONS  
MASONRY WALLS

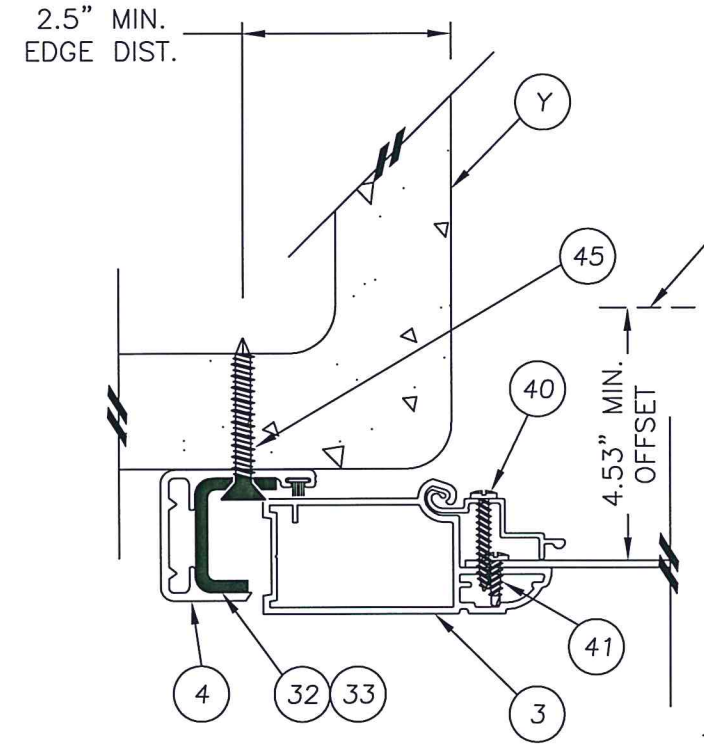
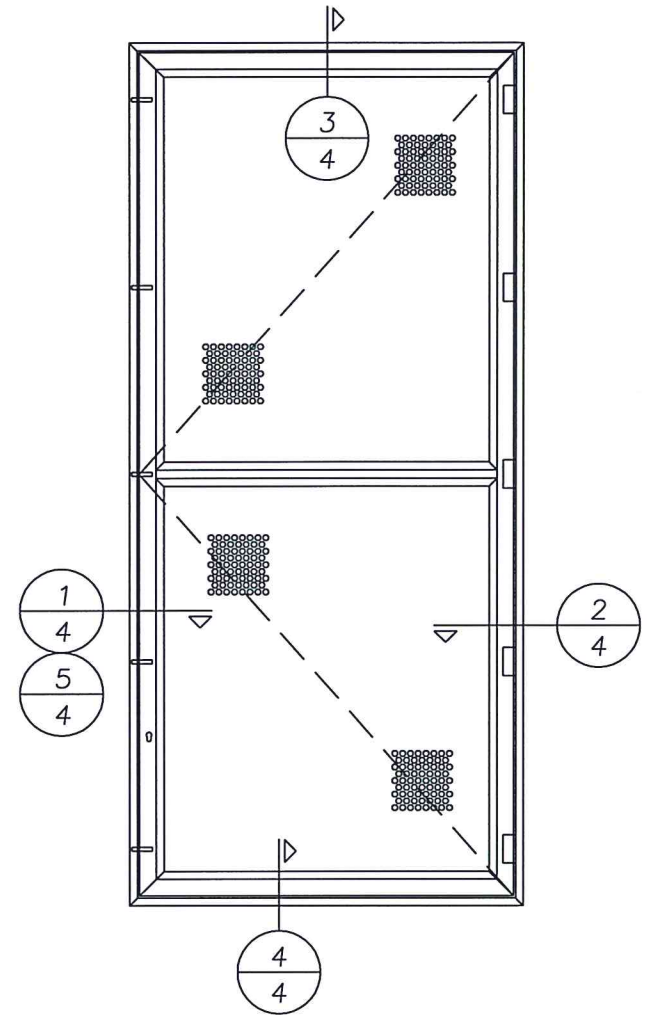
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1	12/10/13	LFS

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

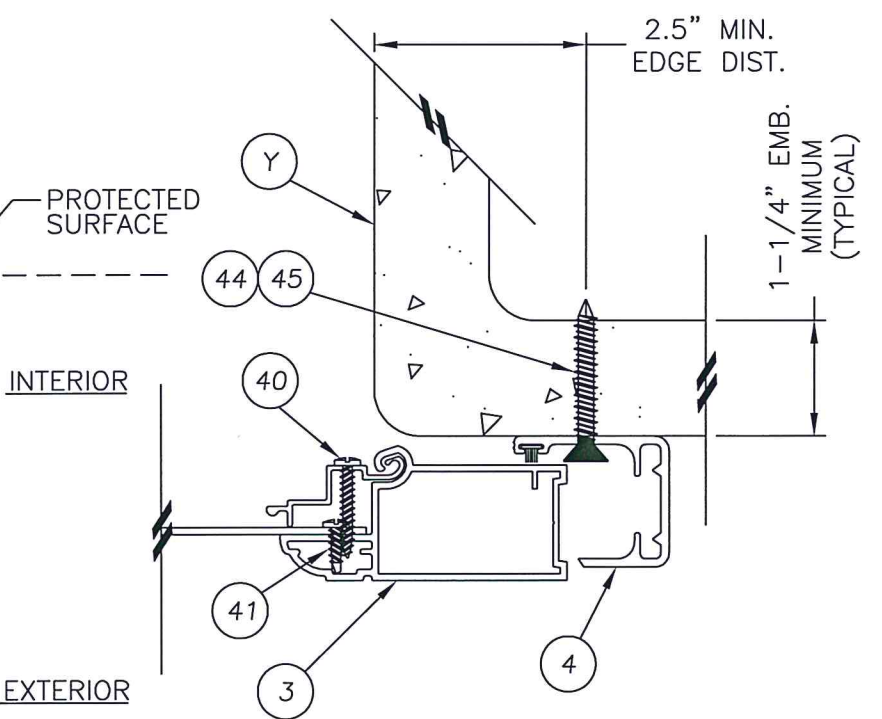
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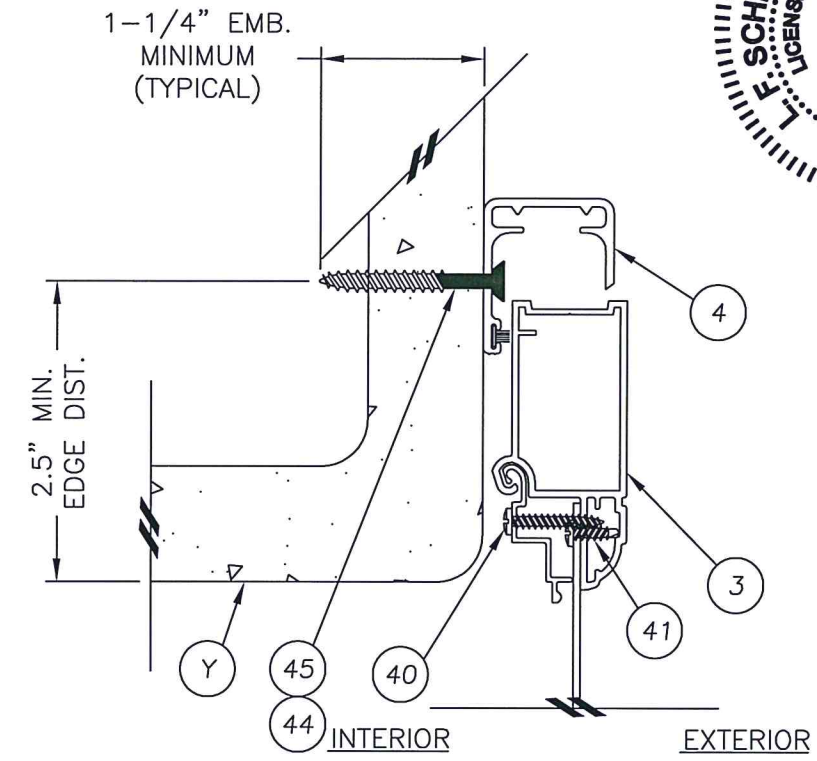
5 ANCHOR THRU SUB-FRAME  
4 LOCK ASS'Y REMOVED FOR CLARITY



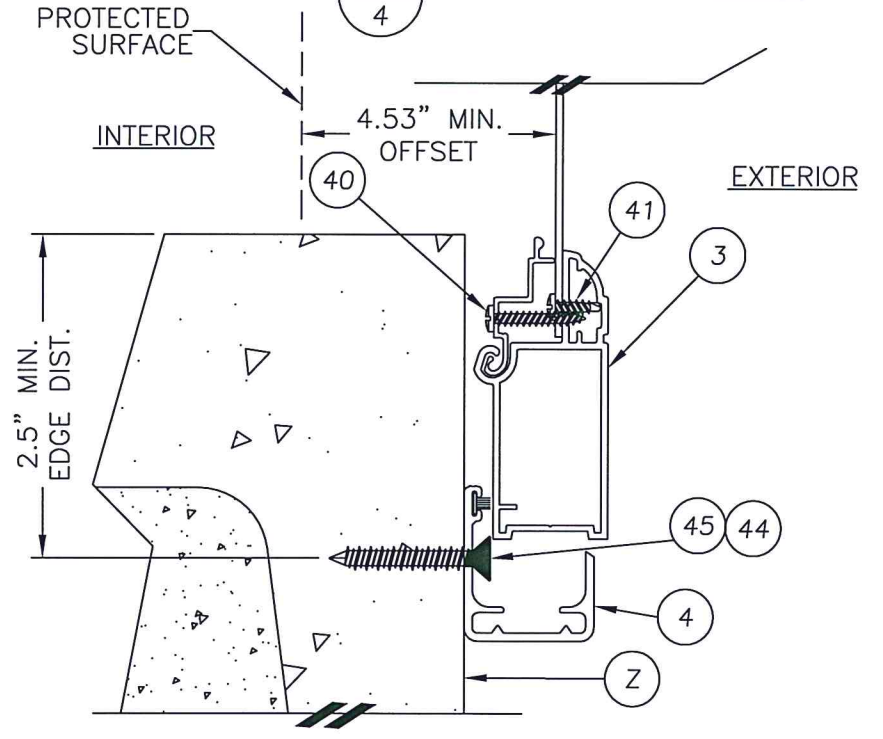
1 ANCHOR THRU J-SHAPE STRIKE PLATE  
4 LOCK ASS'Y REMOVED FOR CLARITY



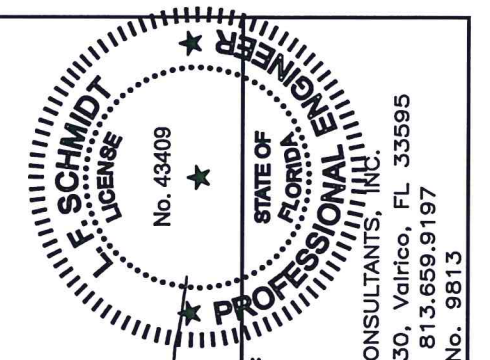
2 SURFACE MOUNT - STRIKE JAMB  
4 HINGE REMOVED FOR CLARITY



3 SURFACE MOUNT - HEAD



4 SURFACE MOUNT - BASE



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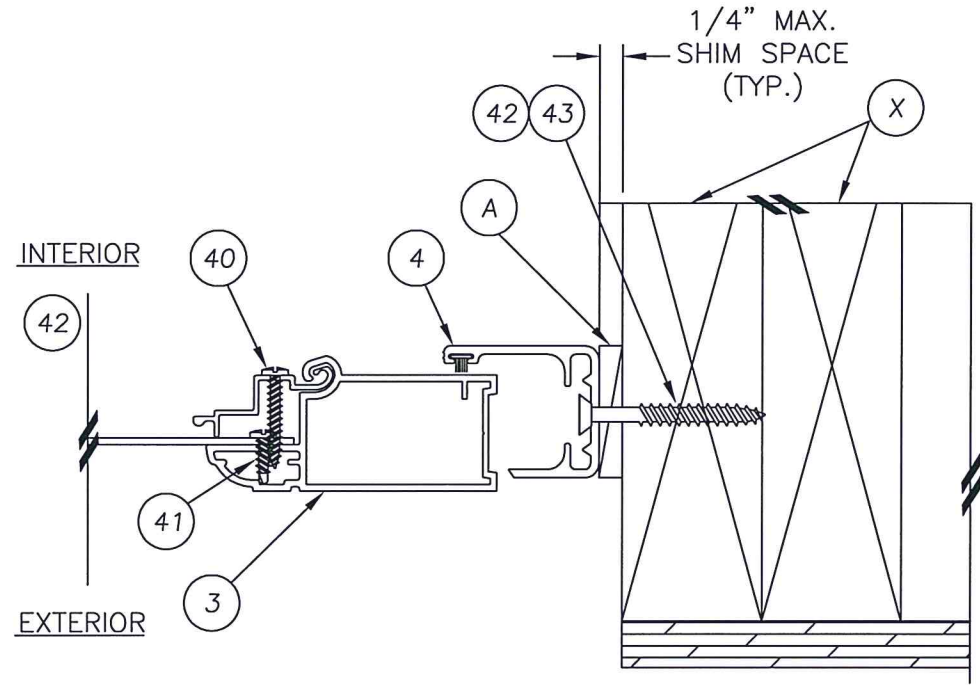
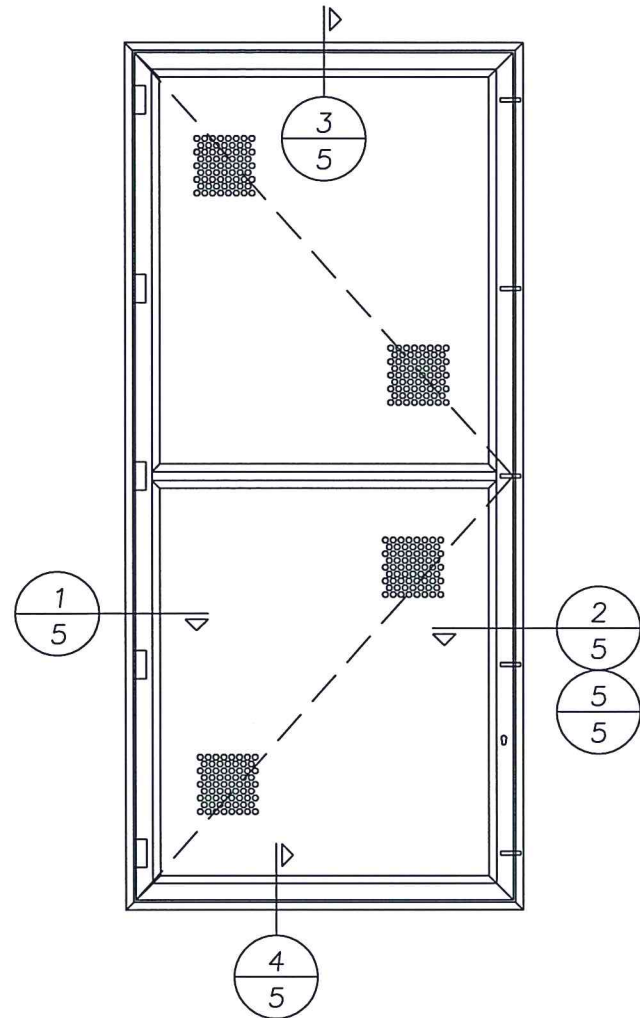
PRODUCT: KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY:  
SURFACE MOUNT SECTIONS  
MASONRY WALLS

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

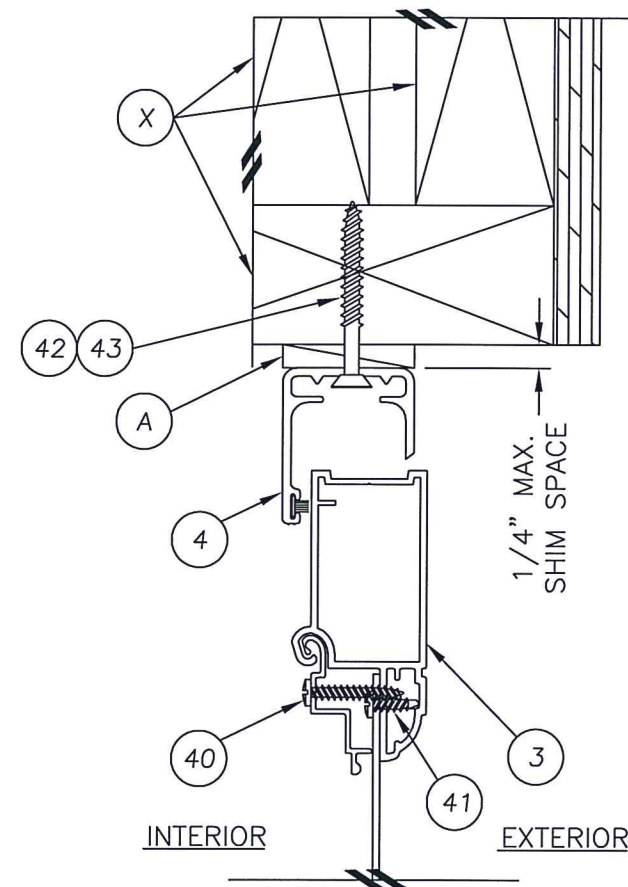
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DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-10238.1  
SHEET 4 OF 12



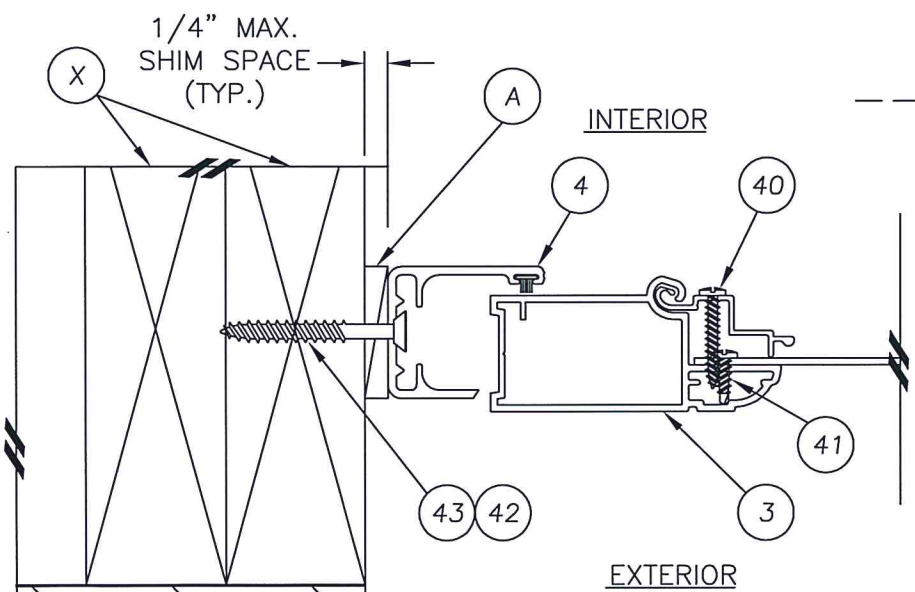
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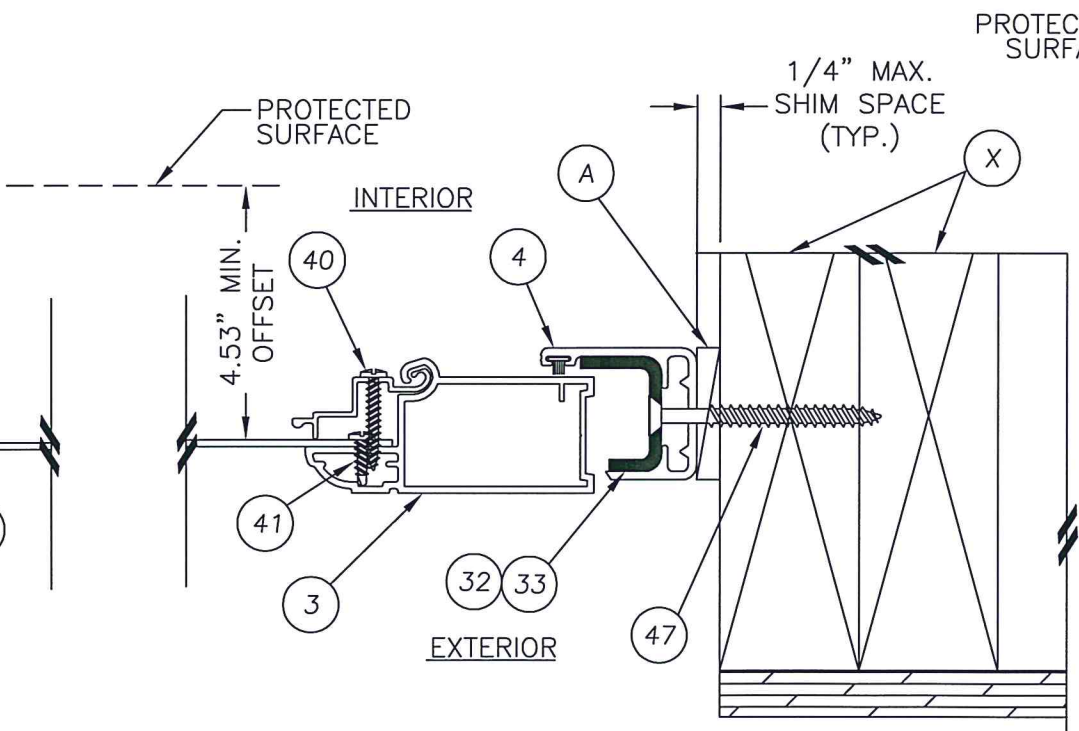
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5 LOCK REMOVED FOR CLARITY



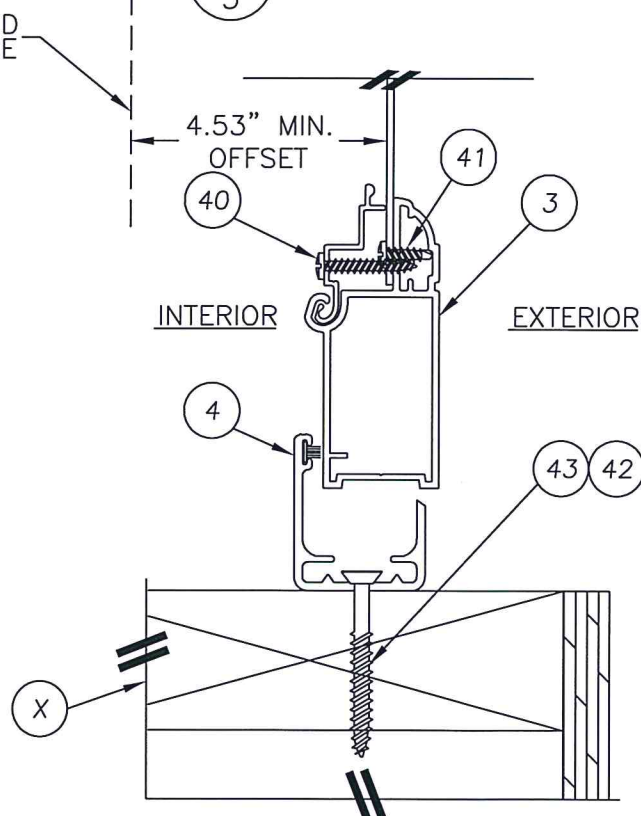
3 REVEAL MOUNT - HEAD  
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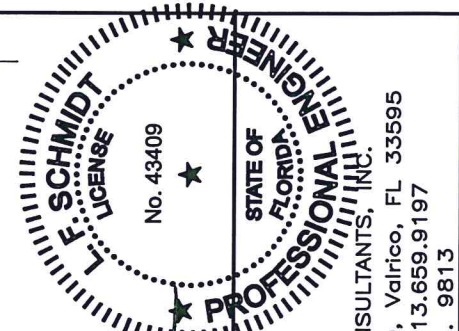
1 REVEAL MOUNT - HINGE JAMB  
5 HINGE REMOVED FOR CLARITY



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

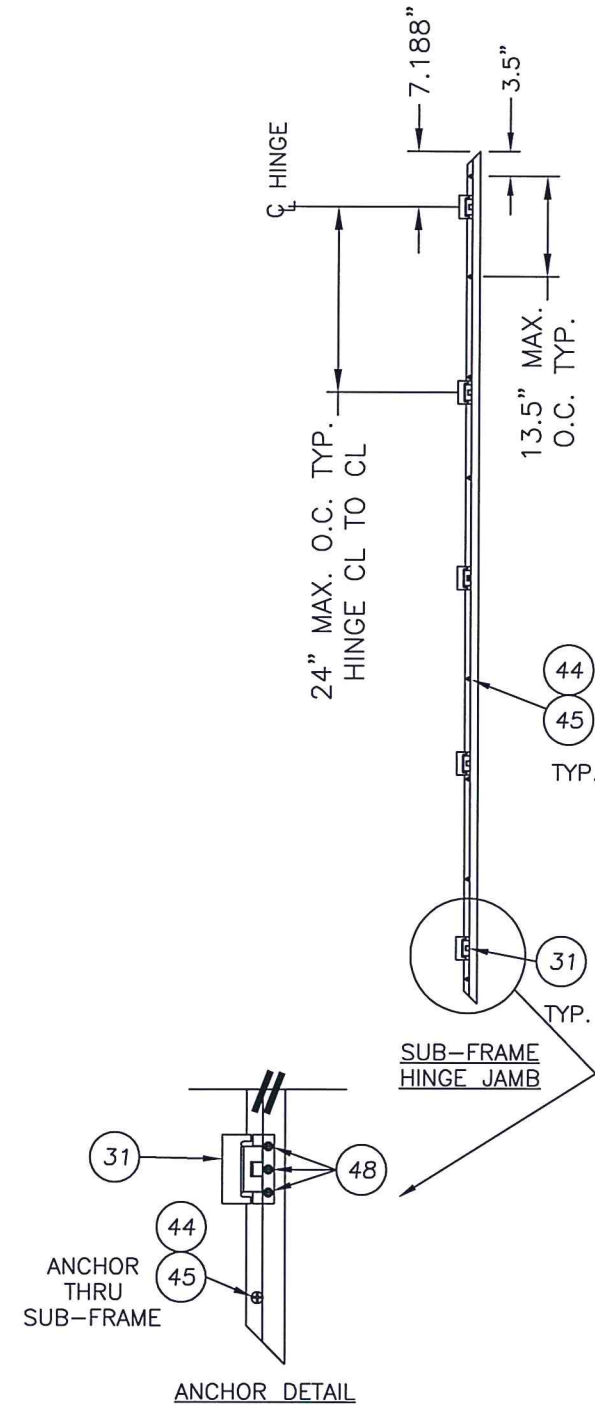
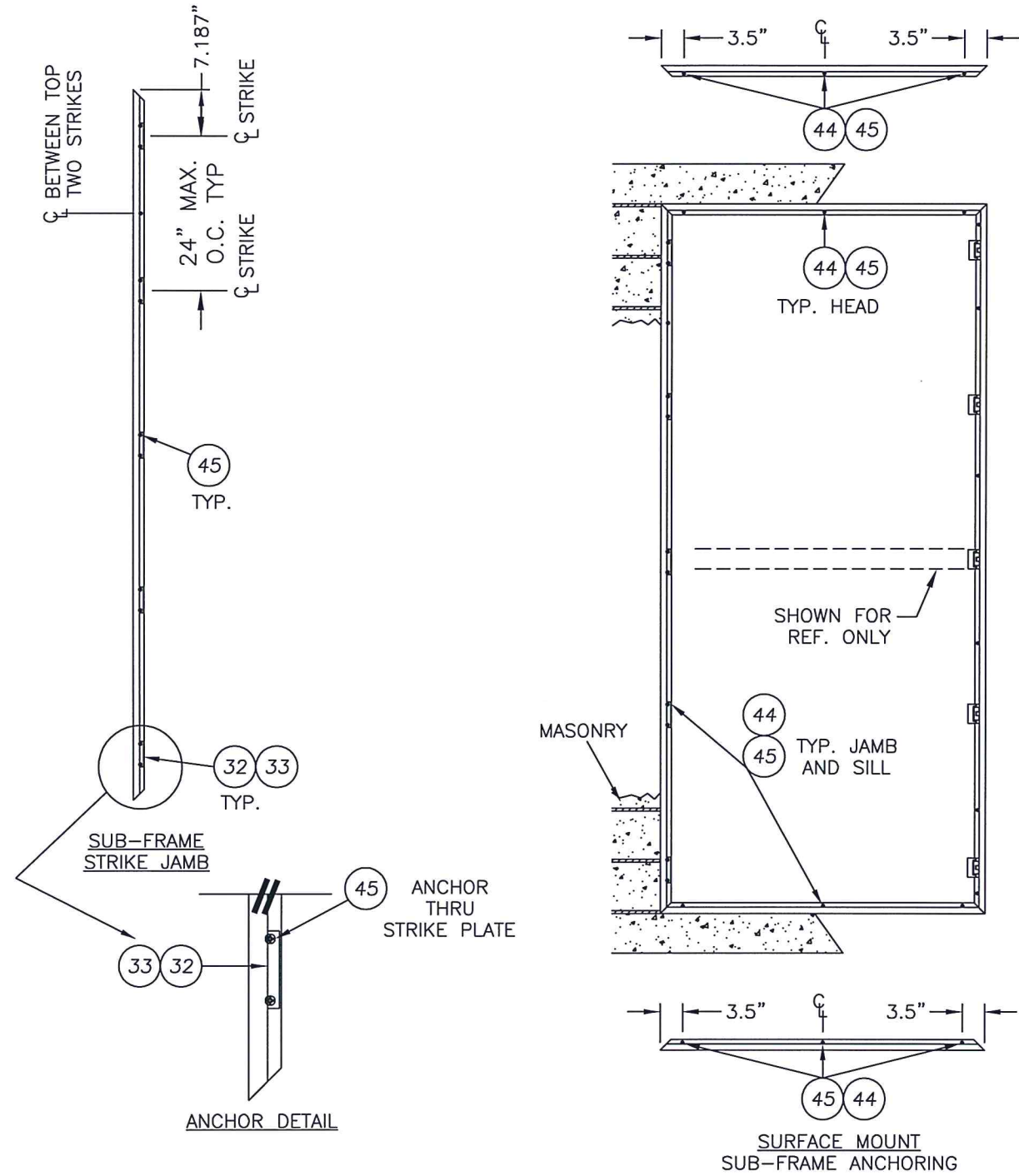
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2	7/01/15	LFS	UPDATE TO 5th ED. (2014) FBC
1	12/10/13	LFS	ADDED POROSITY D.P. RATING

DATE: 8/26/13  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-10238.1  
SHEET 5 OF 12





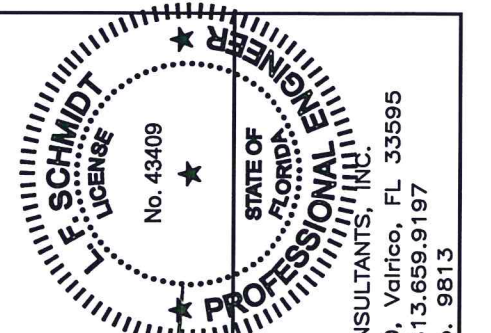




**CONCRETE ANCHOR NOTES:**

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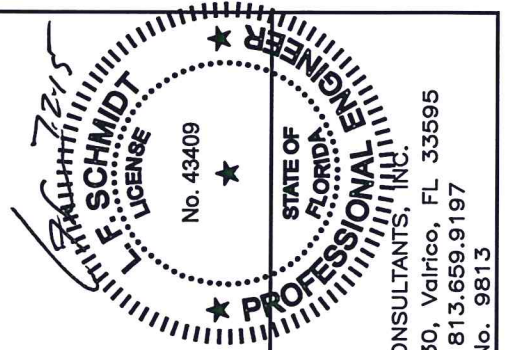
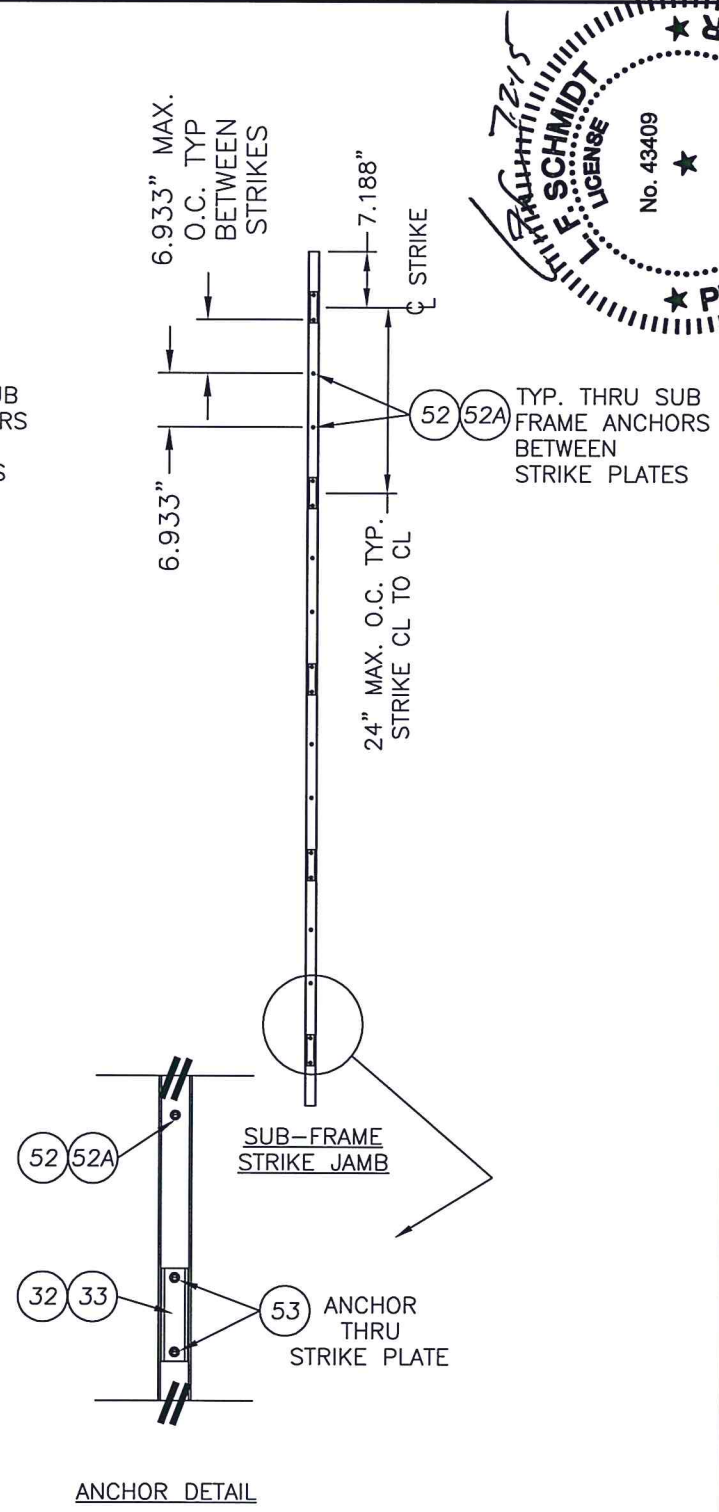
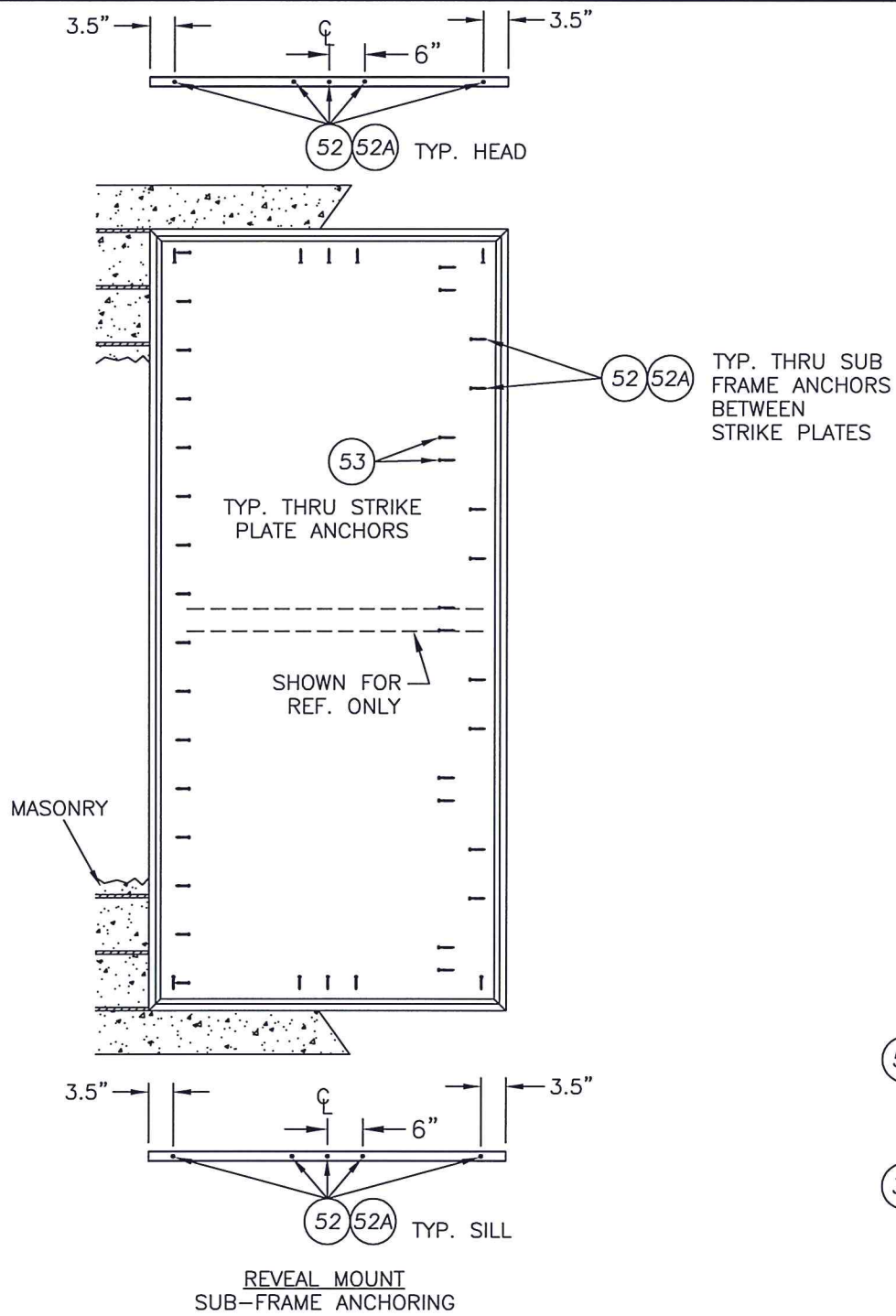
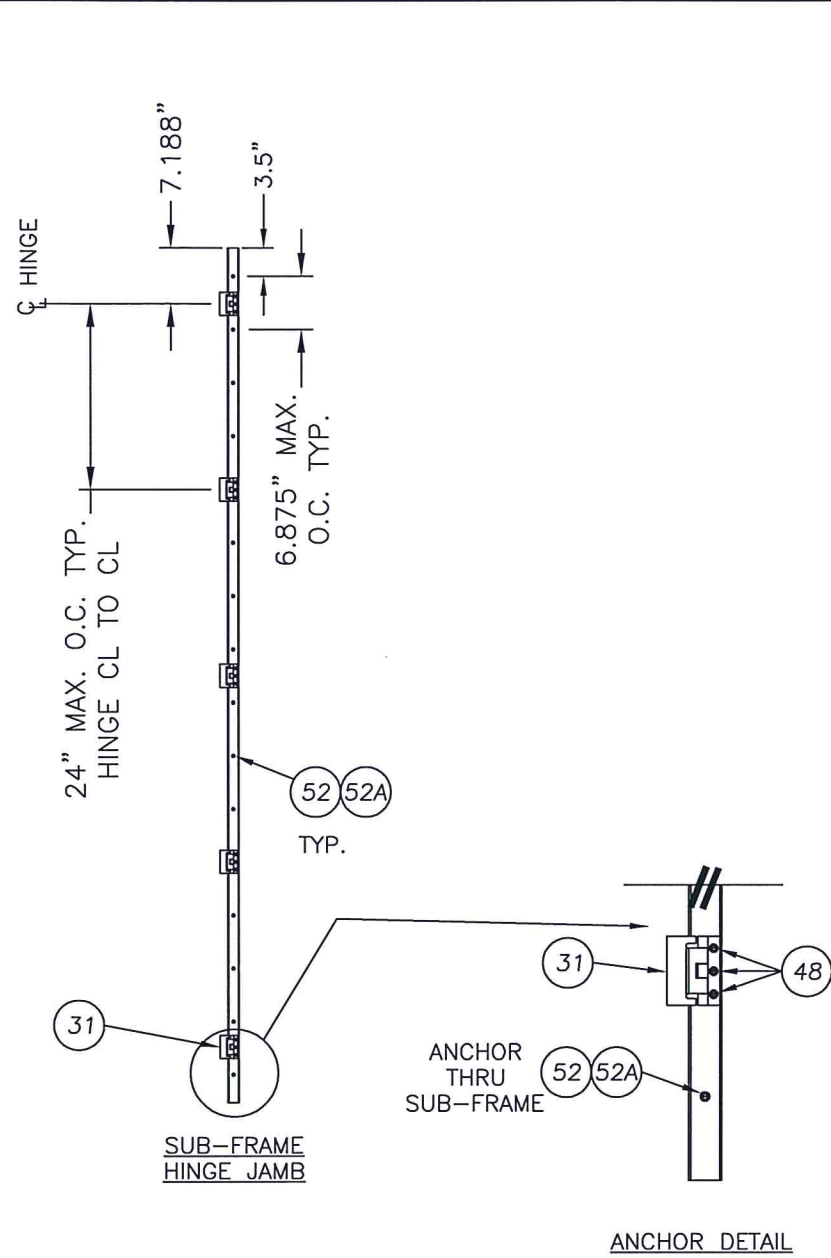
PRODUCT:  
KANE SCREENS  
VAN GUARD II  
ALUMINUM HURRICANE BARRIER  
PART OR ASSEMBLY:  
SURFACE MOUNT ANCHORING  
MASONRY WALL

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  
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DRAWING NO.: FL-10238.1  
SHEET 7 OF 12



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

NO.	DATE	REVISIONS
2	7/01/15	UPDATE TO 5th ED. (2014) FBC
1	12/10/13	ADDED POROSITY D.P. RATING

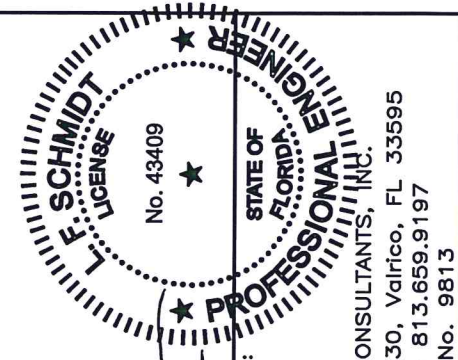
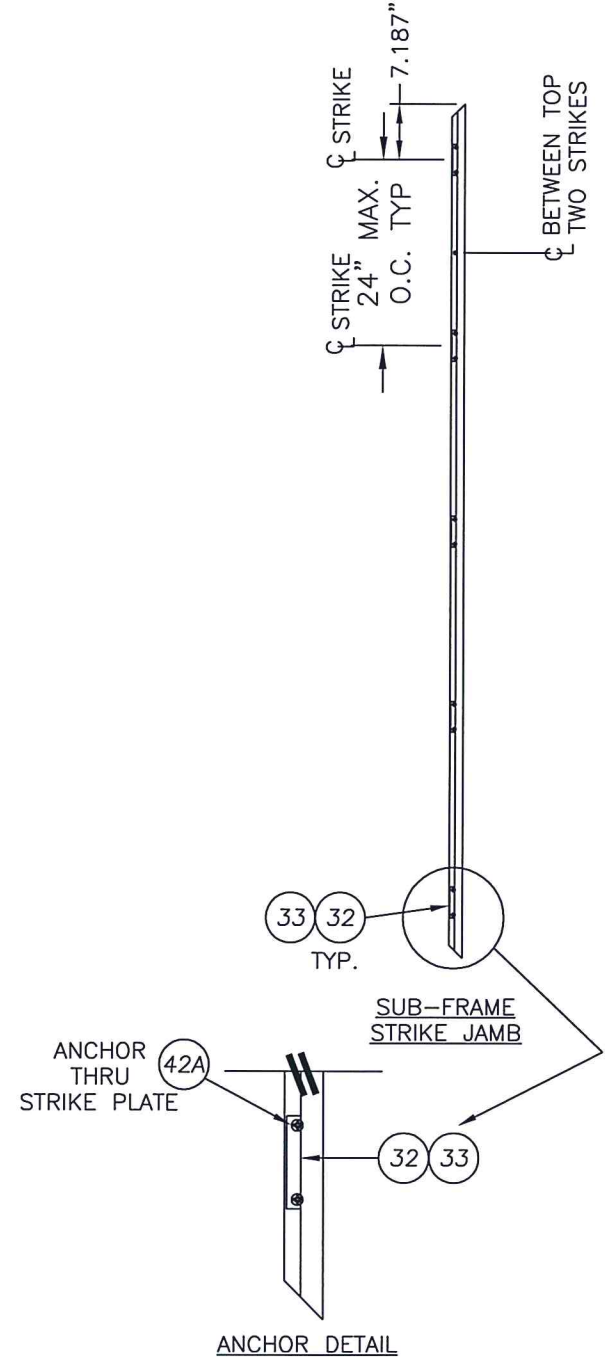
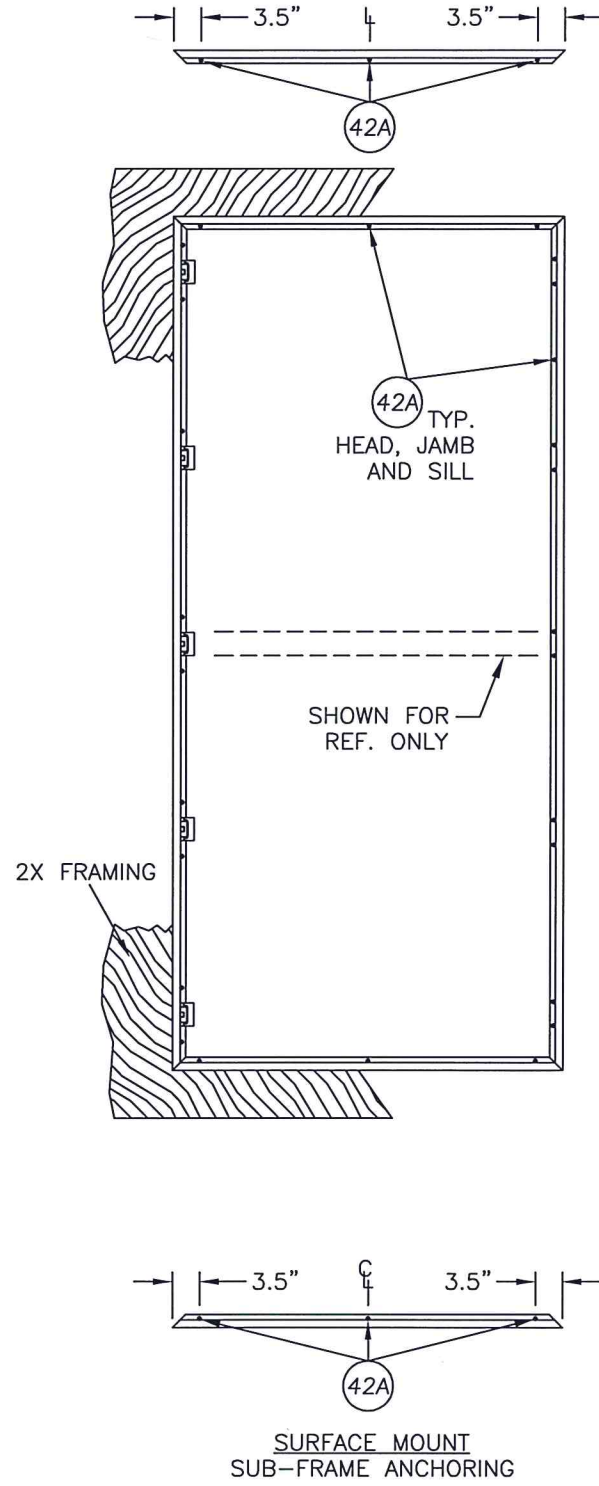
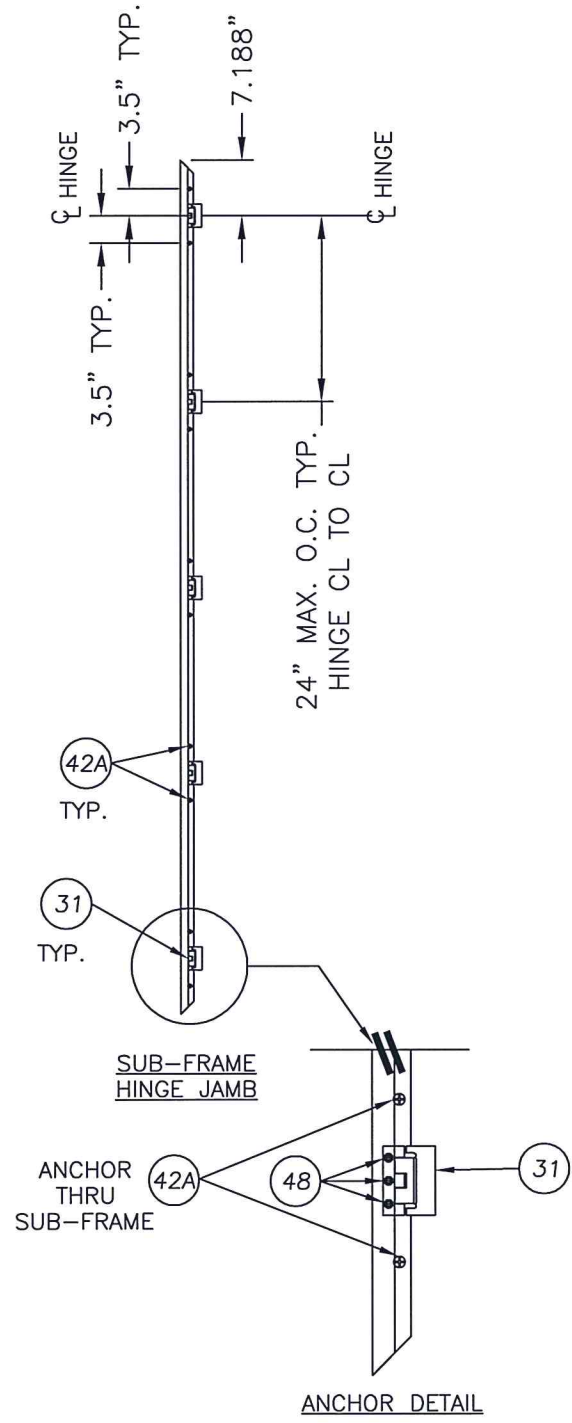
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SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-10238.1  
SHEET 8 OF 12

**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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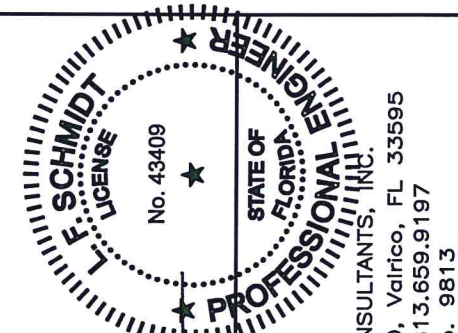
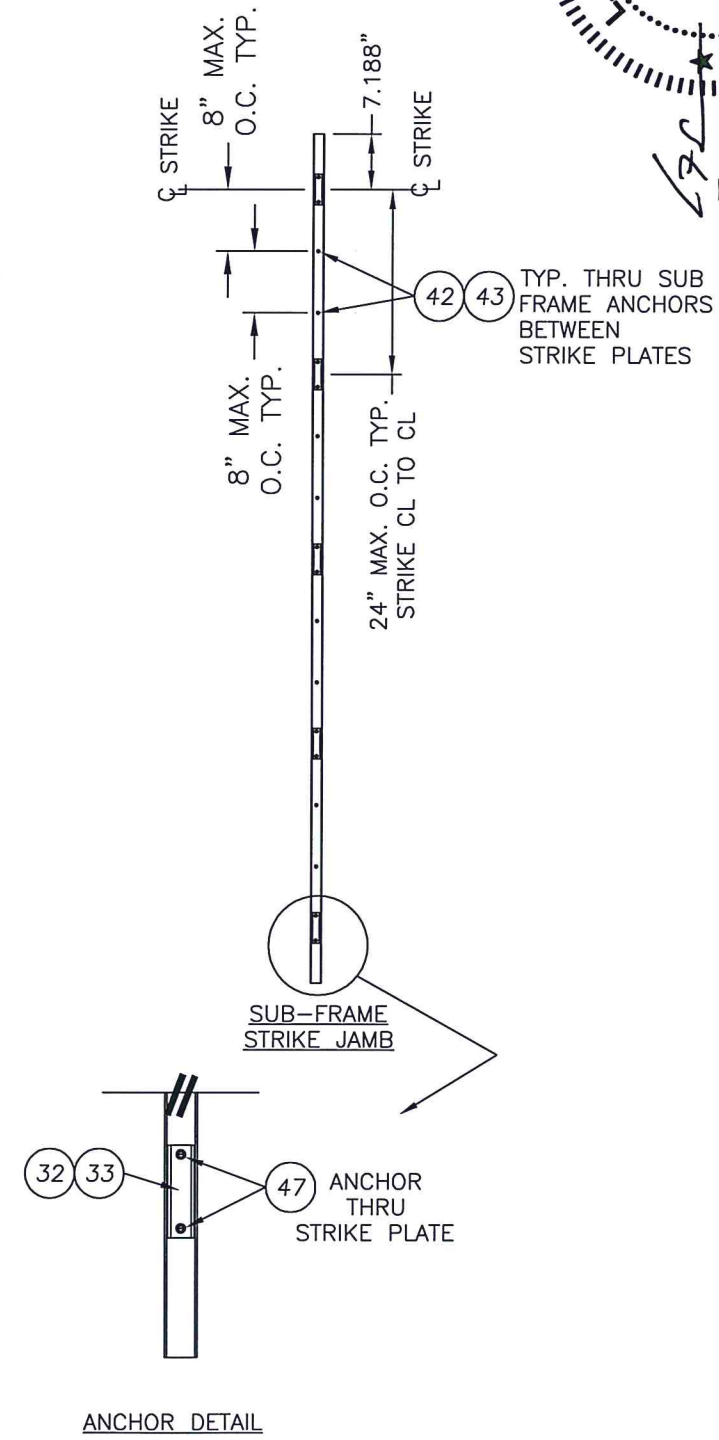
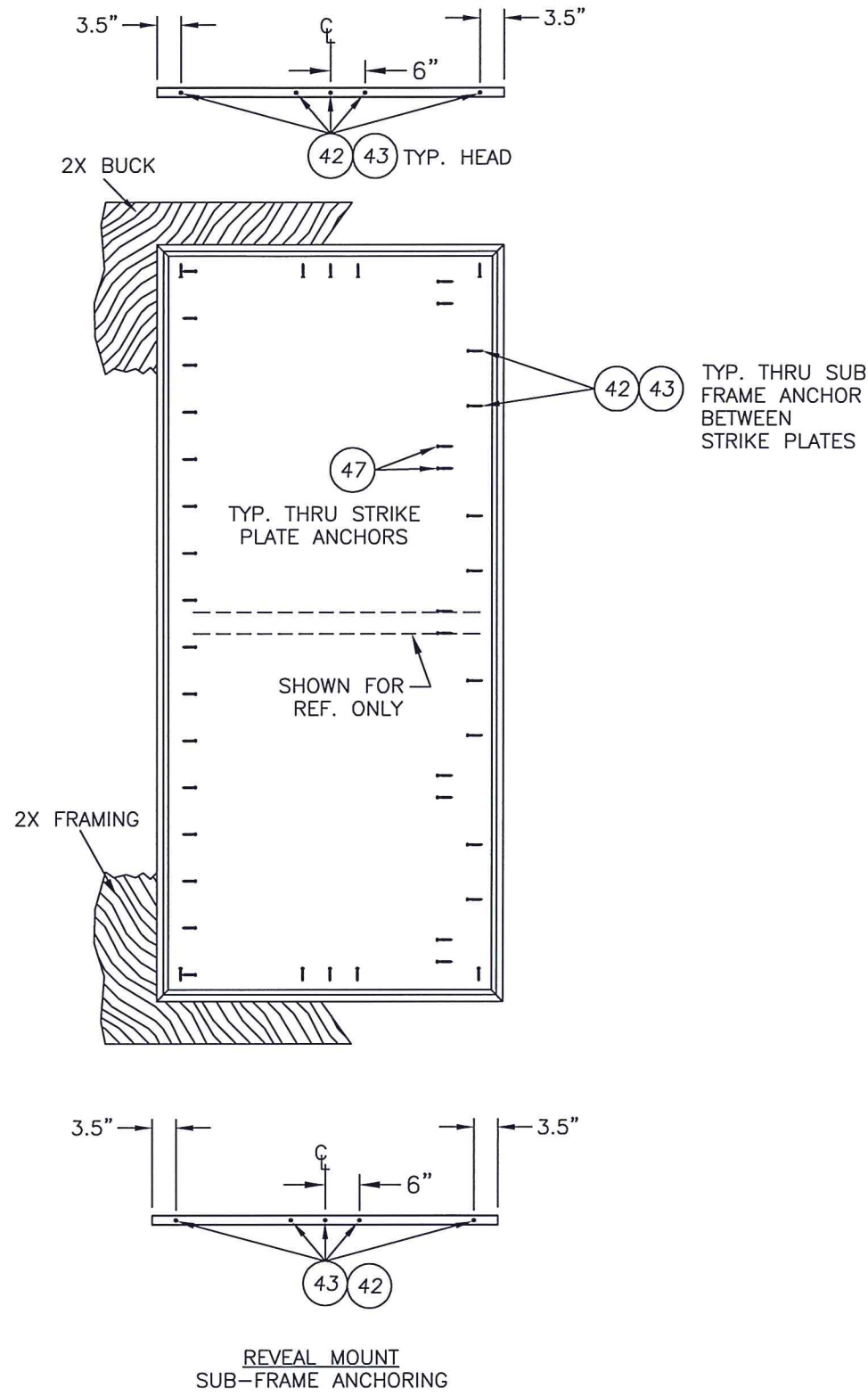
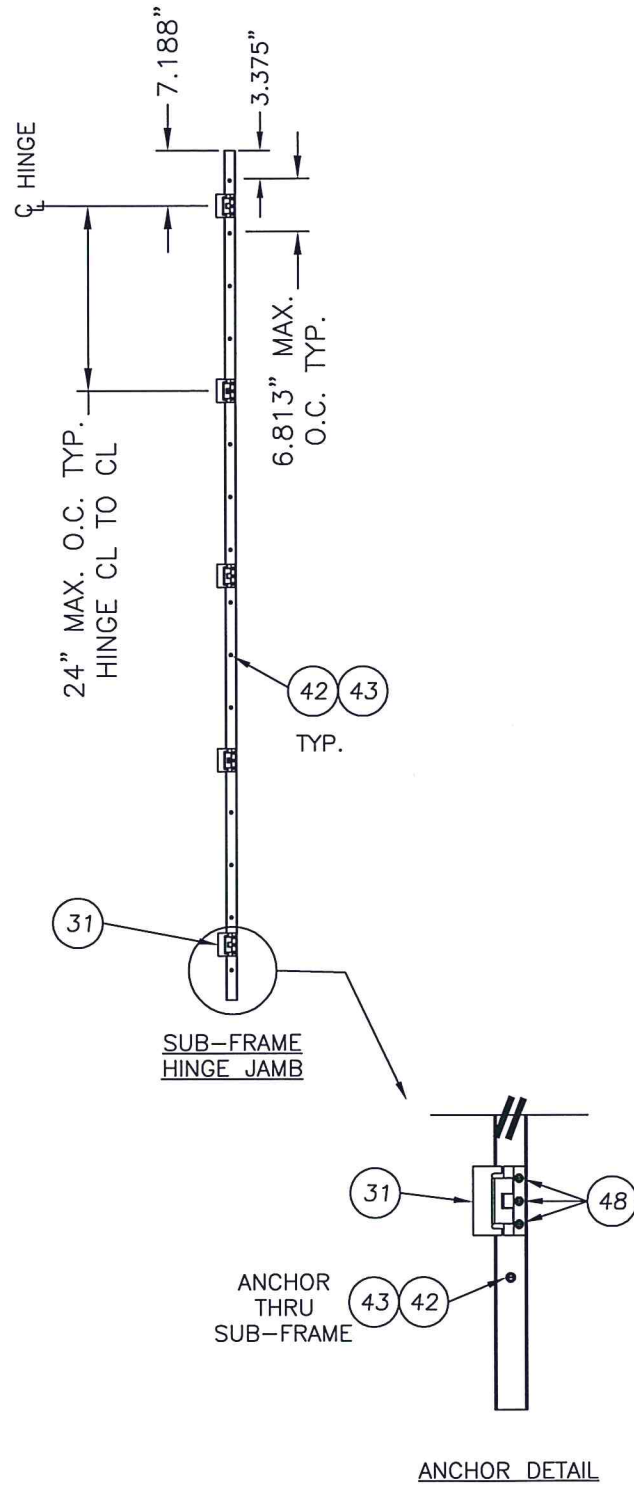
PRODUCT:

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

NO.	DATE	REVISIONS
2	7/01/15	UPDATE TO 5th ED. (2014) FBC
1	12/10/13	ADDED POROSITY D.P. RATING
		LFS
		LFS
		BY

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





Documents Prepared By:  
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P.E. No. 43409

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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: REVEAL MOUNT ANCHORING 2X WOOD FRAMING

NO.	DATE	REVISIONS
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 10 OF 12



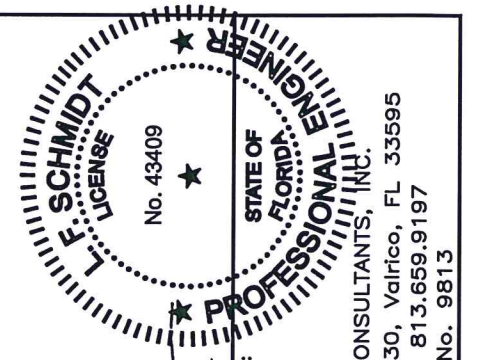




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BILL OF MATERIALS (ANCHOR)		
ITEM	DESCRIPTION	MATERIAL
S1	SCREEN DETAIL (STAINLESS STEEL)	STEEL
X	2X FRAMING (SG >= 0.55)	WOOD
Y	HOLLOW BLOCK CMU (ASTM C90)	CONCRETE
Z	CONCRETE MASONRY (3000 PSI MIN. - ACI 301)	CONCRETE
A	1/4" MAX. SHIM	WOOD
B	MAIN 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

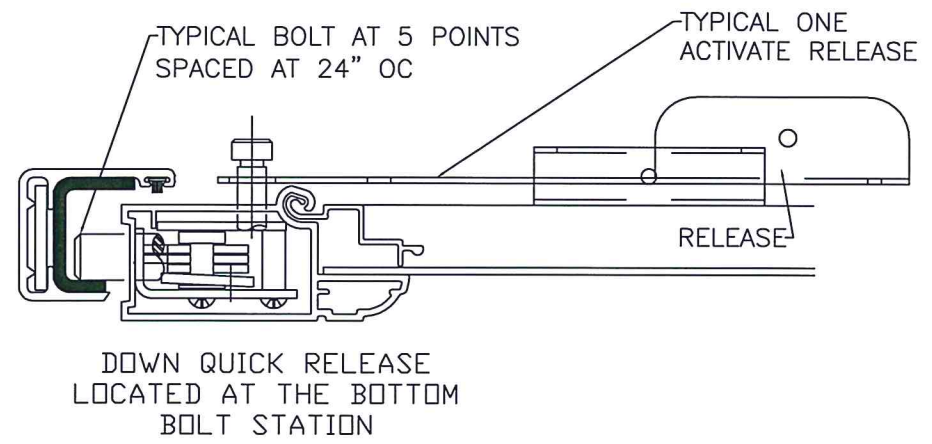
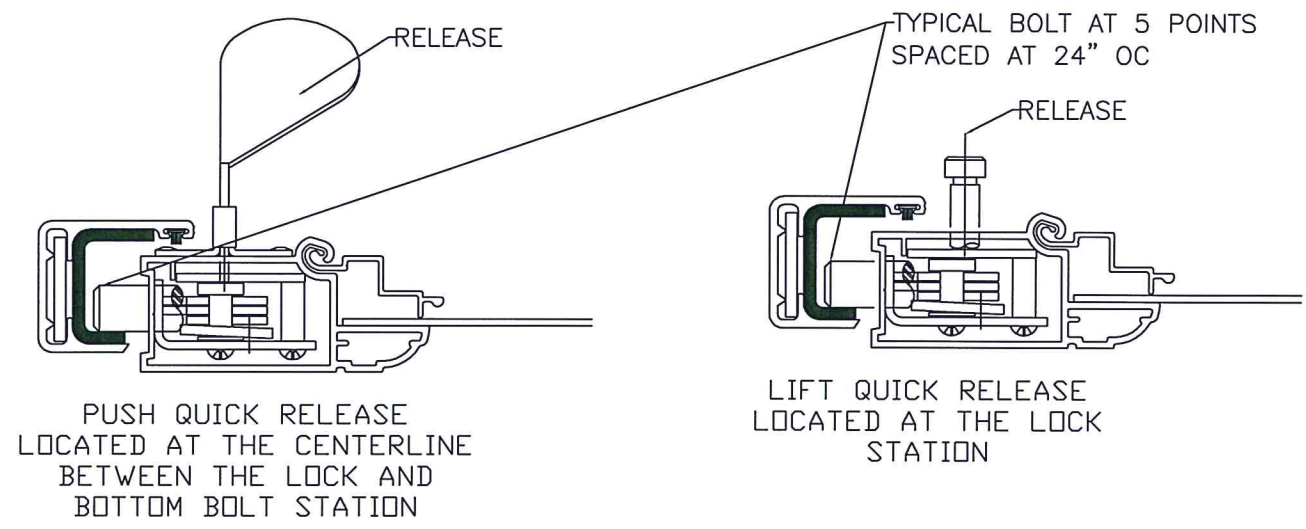
**WOOD SCREW INSTALLATION NOTES:**  
 1. Maintain a minimum 3/4" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



Documents Prepared By:  
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RW

LOCK RELEASE OPTIONS



PRODUCT: KANE SCREENS VAN GUARD II ALUMINUM HURRICANE BARRIER  
 PART OR ASSEMBLY: BILL OF MATERIALS & LOCK RELEASE OPTIONS

NO.	DATE	REVISIONS
2	7/01/15	UPDATE TO 5th ED. (2014) FBC
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 12 OF 12