

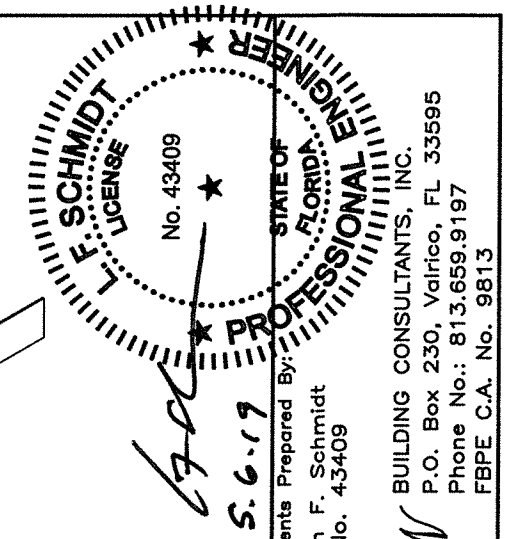
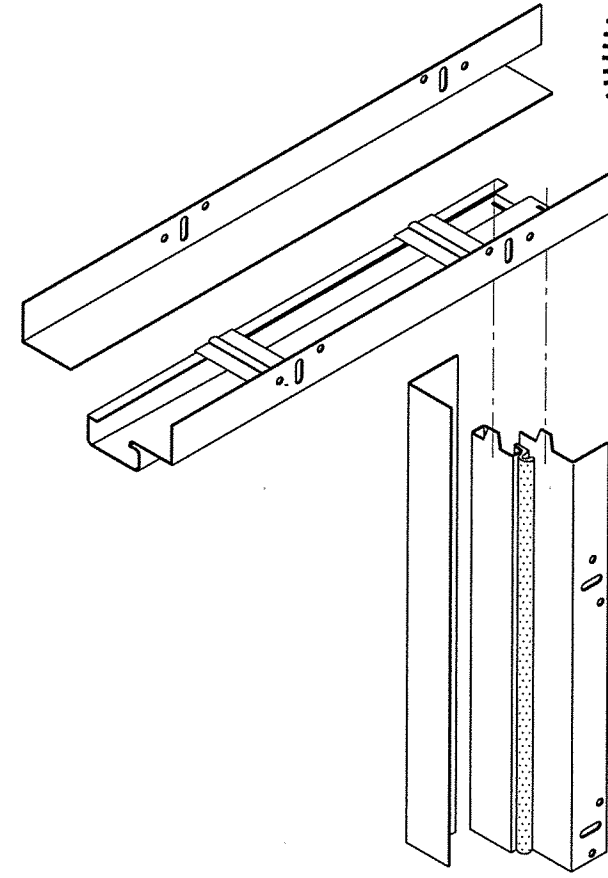
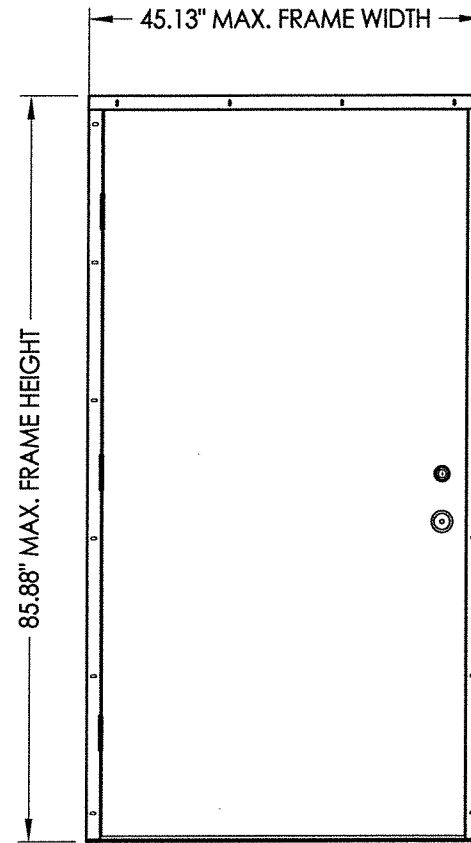


21300 W 8 Mile Rd.
Southfield, MI 48075-5638

ENTRY-FIT™ "K2A-Series" ADJUSTABLE STEEL DOOR FRAME Utilizing a Steel Door Panel "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 Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. This product has been tested with the door panels as specified in this approval. Substitution of a similar product may be approved for use by the local Authority Having Jurisdiction. In all cases, the steel door used must possess a comparable current Florida Statewide product approval. The door panel size and design pressure (DP) rating shall not exceed the sizes and DP ratings shown in this approval or the steel side hinged swing door approval being used.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Configurations utilizing the high-dam outswing bump threshold (item #30) meet water infiltration requirements for the "HVHZ".
8. Configurations utilizing inswing threshold (item #31), outswing threshold (item #32) and the ADA threshold (item #33), do not meet the water infiltration requirements for the "HVHZ". These units shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
9. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6.



Documents Prepared By:
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FBPE C.A. No. 9813

INSWING OR OUTSWING

ADJUSTABLE STEEL DOOR FRAME K2A-Series

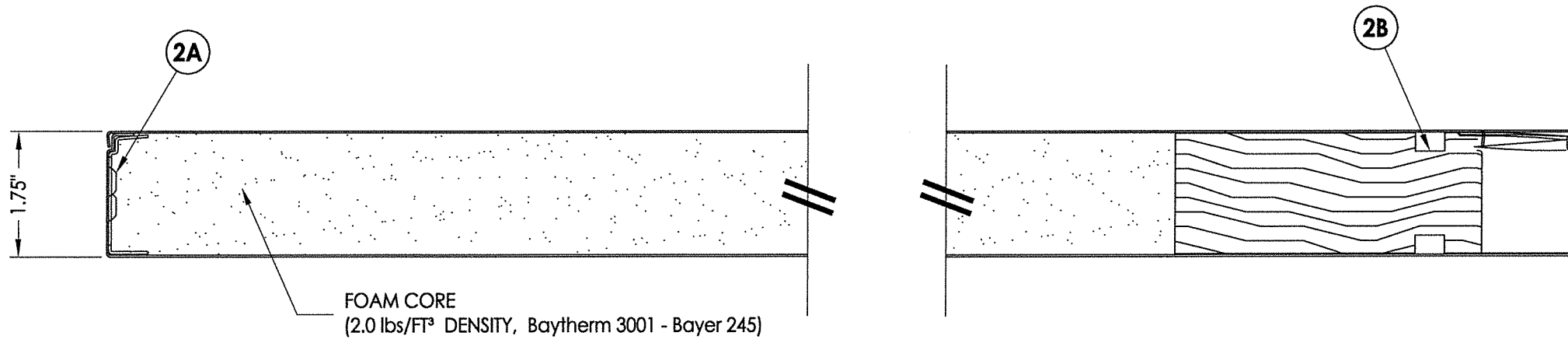
DOOR PANEL	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)		APPROVED FOR USE IN THE "HVHZ"
		POSITIVE	NEGATIVE	
TAYLOR	45.13" X 85.88"	+ 60.0	- 60.0	YES
MASONITE	39.13" X 85.88"	+ 60.0	- 60.0	NO

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Door panel details
4	Corner detail
5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Buck anchoring
9	Frame anchoring
10	Bill of materials and components

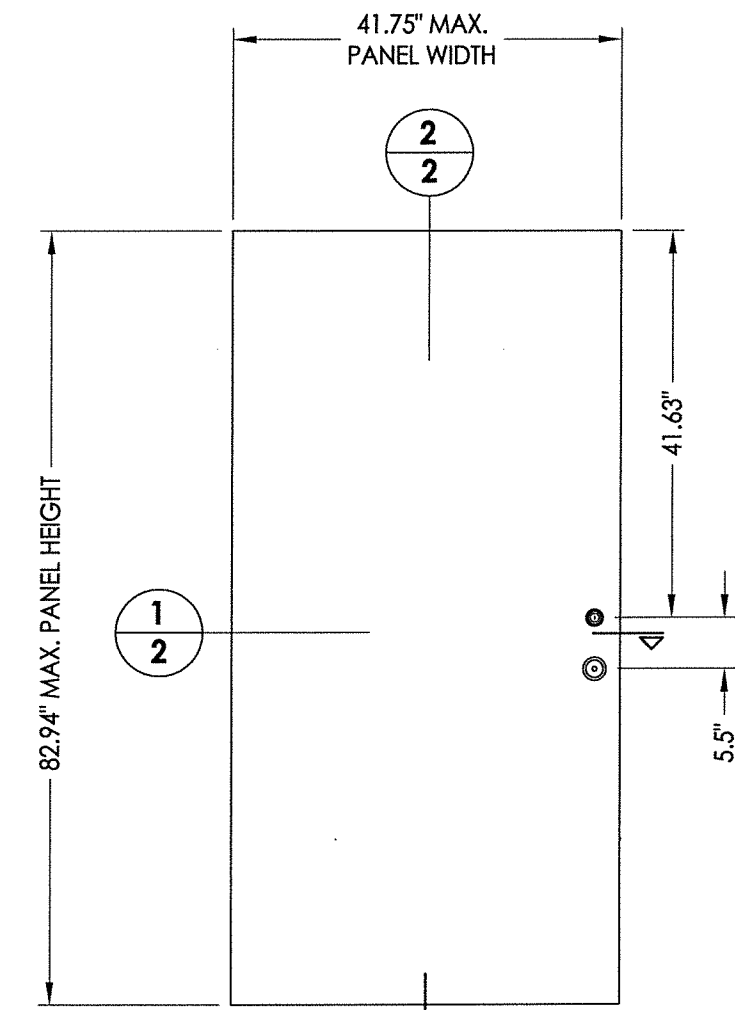
PRODUCT:	IDP STEEL FRAME (K2A-SERIES)
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURE & GENERAL NOTES
LFS	ADD SILL ANCHORING OPTION
LFS	CLARIFY FRAME ANCHORING
JK	UPDATE TO 6TH ED. (2017) FBC
JK	UPDATE TO 5TH ED. (2014) FBC
LFS	UPDATE TO 2010 FBC
LFS	REV. THRESHOLD NOTES/ANCHORS
BY	
NO.	DATE
REVISIONS	
DATE: 4/11/11	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-14512.1	
SHEET 1 OF 10	

R:\Clients\IDP PERMANENTVA - Florida Product Approval\FL-14512C - Drawings\FL-14512 (2017)\FL-14512.1.dwg, FL-14512.1

R:\Clients\IDP PERMANENT\A - Florida Product Approvals\FL-14512C - Drawings\FL-14512 (2017)\FL-14512.1.dwg, 2.1

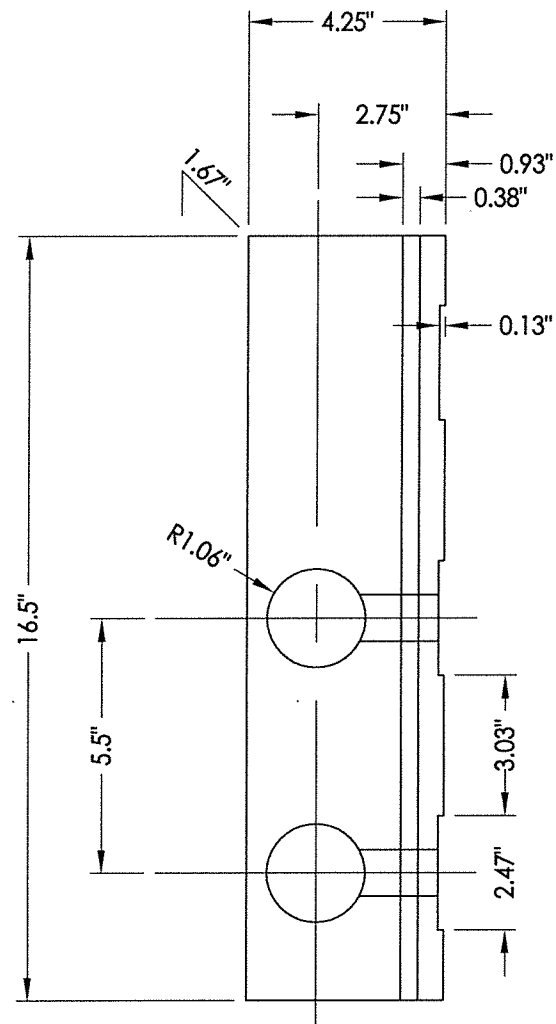


1
2 HORIZONTAL CROSS SECTION

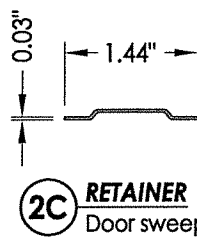
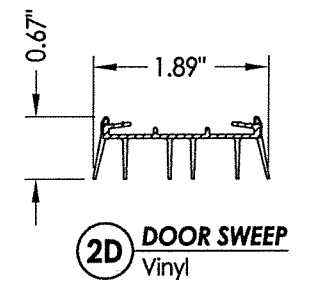


40 DOOR PANEL
Steel (Taylor)

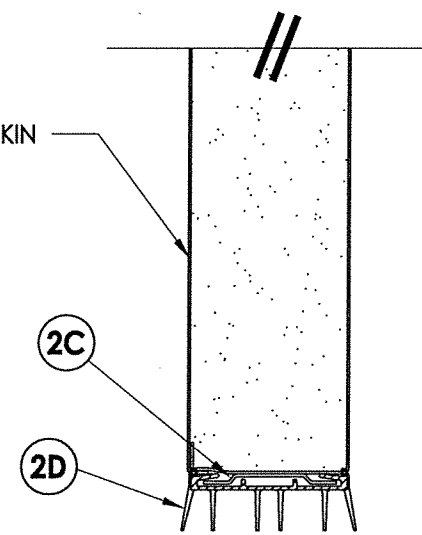
STEEL DOOR SKIN: MIN. 0.020" THK.
GALVANIZED STEEL (F_y = 33,000 PSI MIN.)



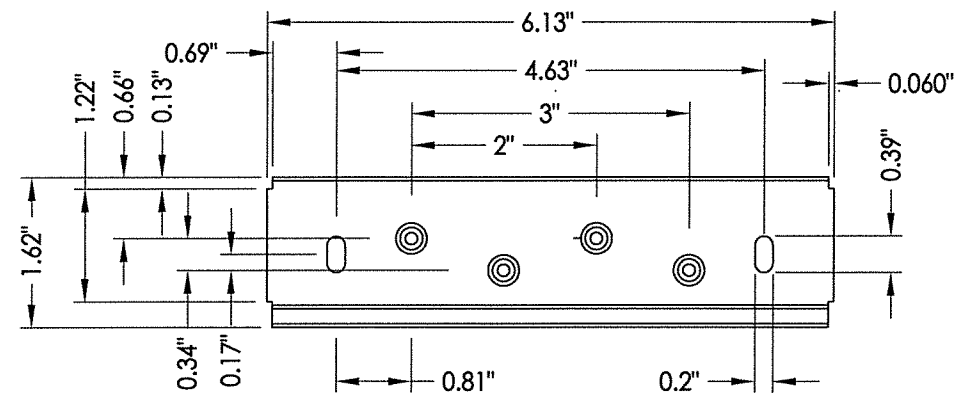
2B LOCK BLOCK
Wood



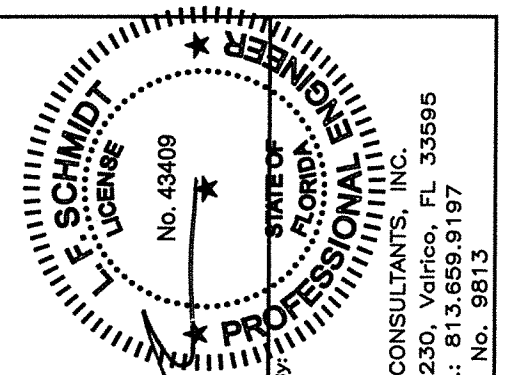
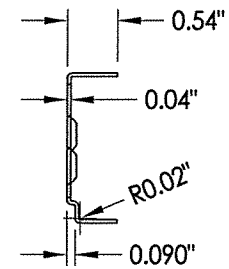
STEEL DOOR SKIN



2
2 VERTICAL CROSS SECTION



2A HINGE REINFORCEMENT



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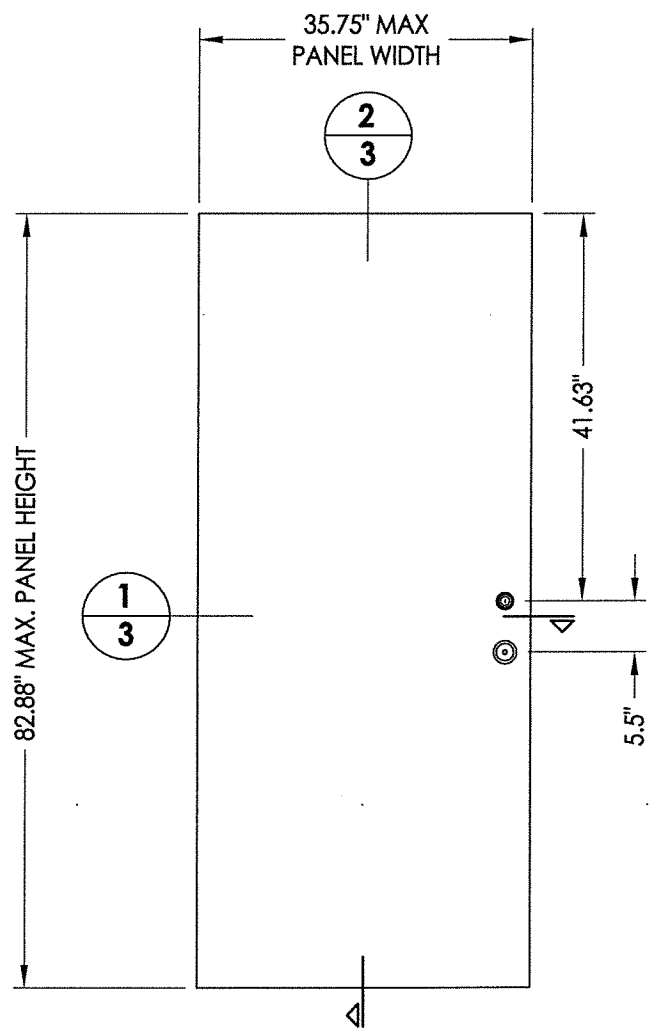
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:	IDP STEEL FRAME (K2A-SERIES)
PART OR ASSEMBLY:	DOOR PANEL DETAILS

NO.	DATE	REVISIONS
6	5/06/19	ADD SILL ANCHORING OPTION
5	4/17/18	CLARIFY FRAME ANCHORING
4	9/26/17	UPDATE TO 6TH ED. (2017) FBC
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC
2	5/21/12	UPDATE TO 2010 FBC
1	5/17/11	REV. THRESHOLD NOTES/ANCHORS
		LFS
		BY

DATE:	4/11/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14512.1
SHEET	2 OF 10

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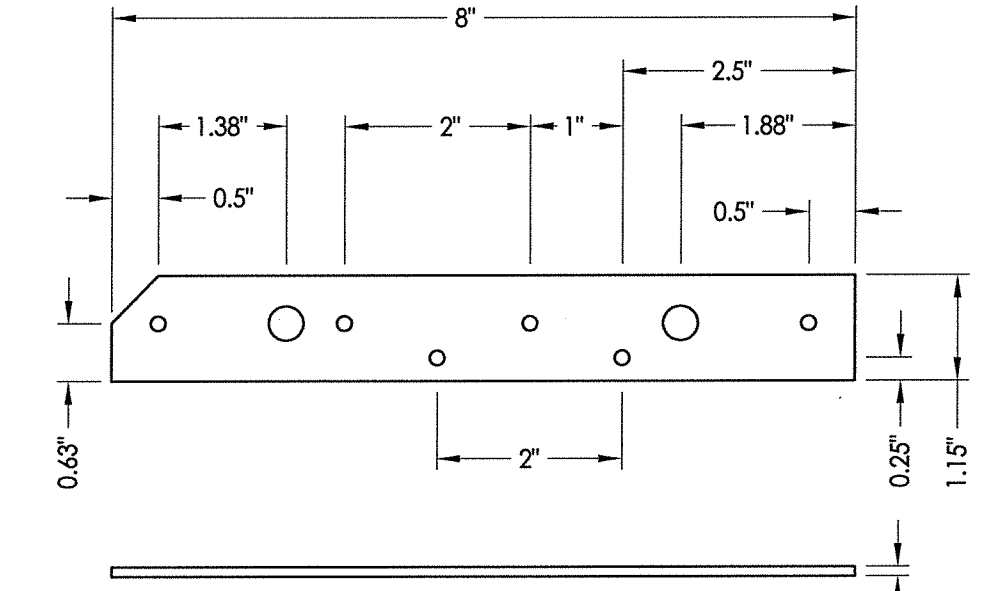
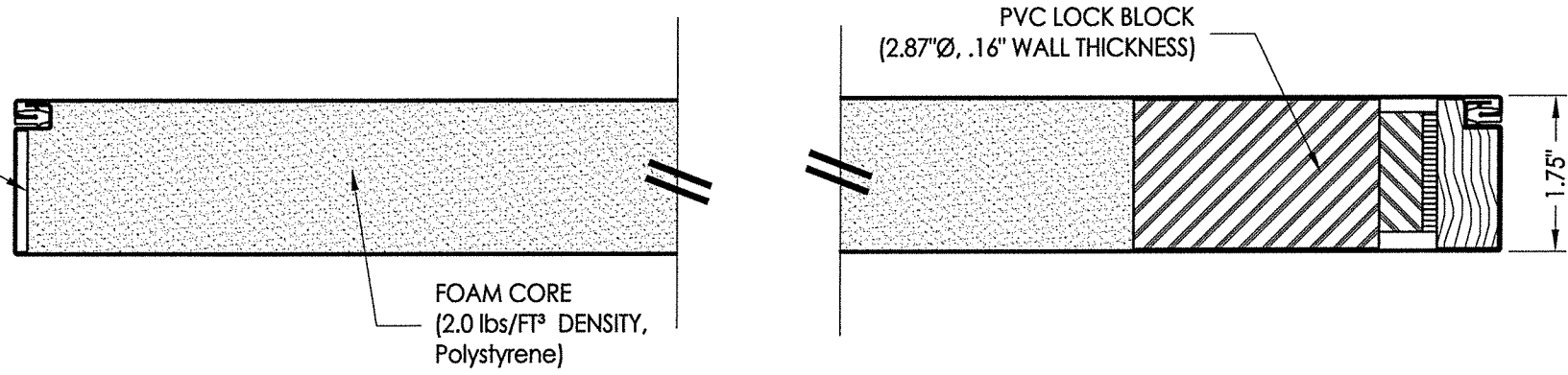


50 DOOR PANEL
Steel (Masonite)

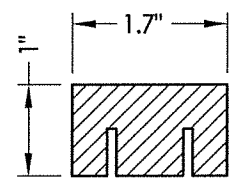
STEEL DOOR SKIN: MIN. 0.020\"/>

NOTE: Max frame size with Masonite door is 39.13\"/>

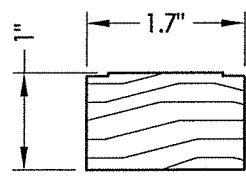
1 HORIZONTAL CROSS SECTION



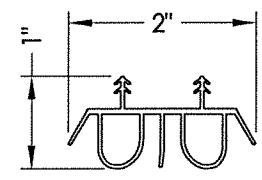
3A HINGE REINFORCEMENT
Steel



3C BOTTOM
Composite

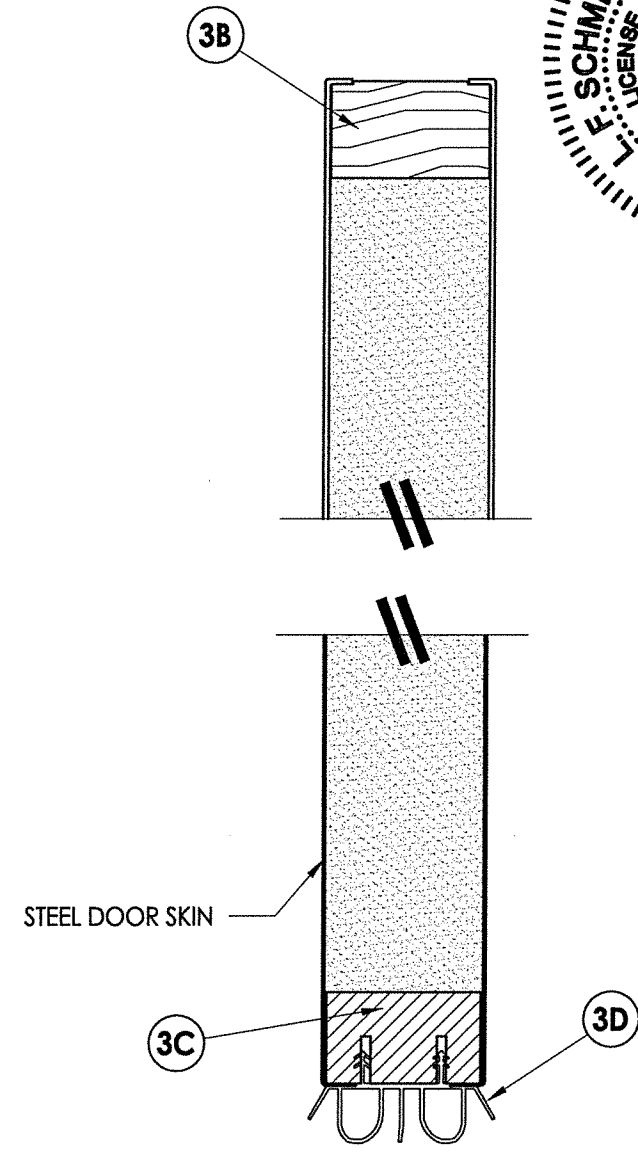


3B TOP RAIL
Wood



3D BOTTOM SWEEP
Vinyl

2 VERTICAL CROSS SECTION



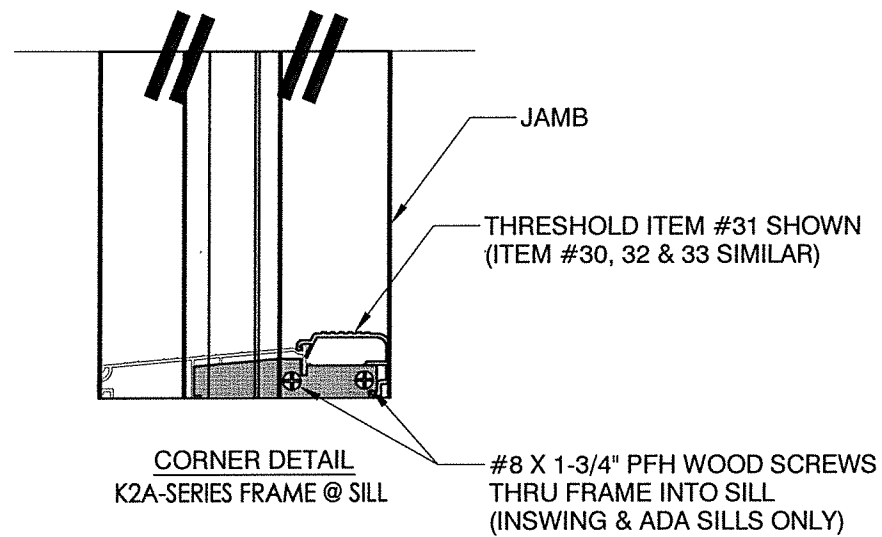
L. SCHMIDT
 F. LICENSE
 No. 43409
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

Documents Prepared By:
 Lyndon F. Schmidt
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 BUILDING CONSULTANTS, INC.
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 FBPE C.A. No. 9813

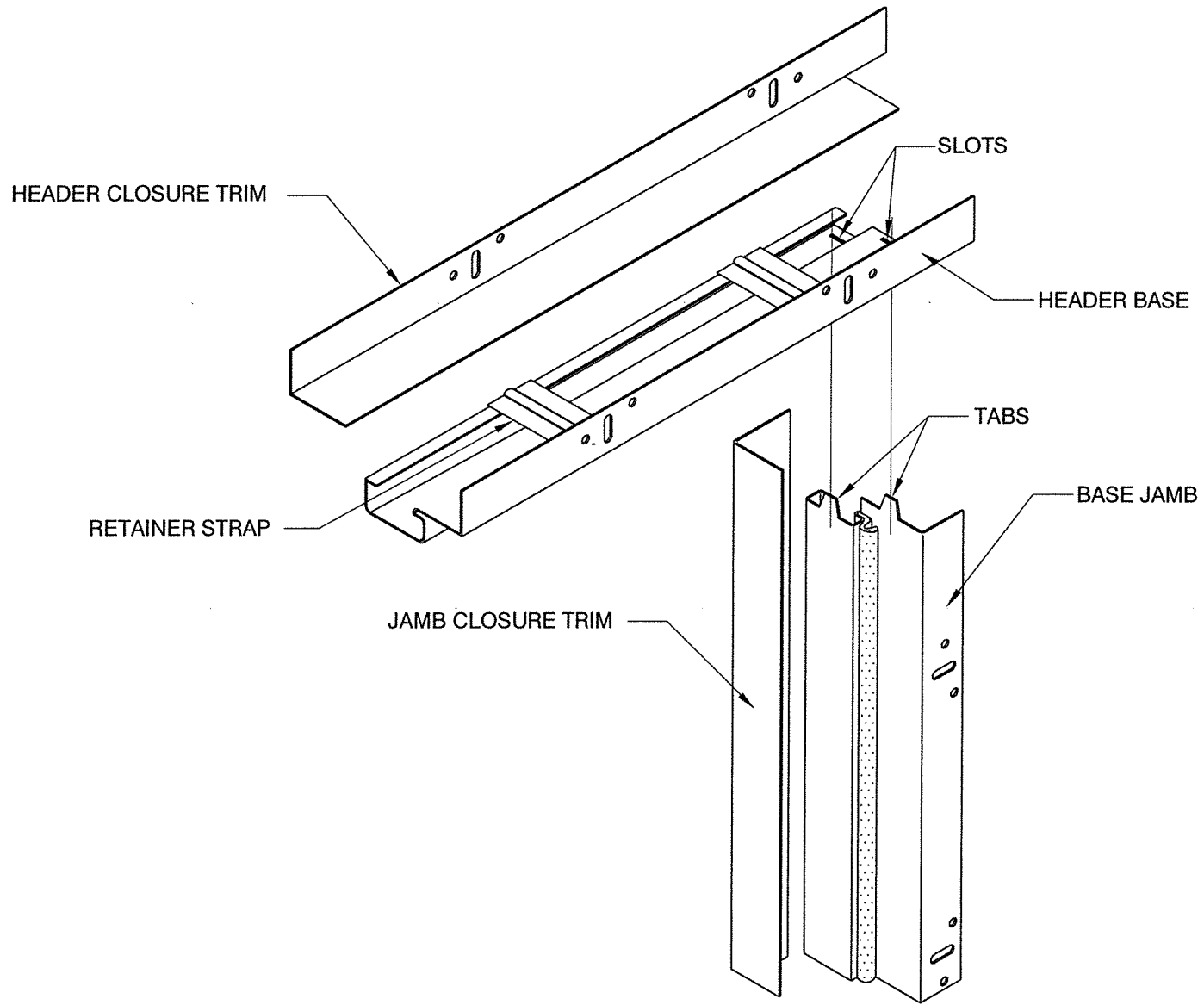
PRODUCT:		IDP	
STEEL FRAME (K2A-SERIES)		STEEL FRAME (K2A-SERIES)	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
LFS	ADD SILL ANCHORING OPTION	LFS	REVISIONS
LFS	CLARIFY FRAME ANCHORING	LFS	NO.
JK	UPDATE TO 6TH ED. (2017) FBC	JK	DATE
JK	UPDATE TO 5TH ED. (2014) FBC	LFS	
LFS	UPDATE TO 2010 FBC	LFS	
LFS	REV. THRESHOLD NOTES/ANCHORS	BY	
NO.	DATE	NO.	DATE
6	5/06/19	1	5/17/11
5	4/17/18	2	5/21/12
4	9/26/17	3	1/27/15
3	1/27/15	4	9/26/17
2	5/21/12	5	4/17/18
1	5/17/11	6	5/06/19
DATE: 4/11/11		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-14512.1		SHEET 3 OF 10	

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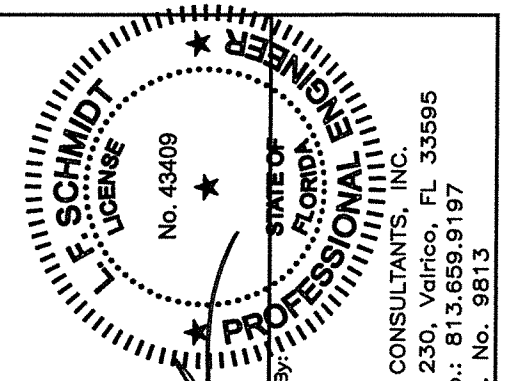


CORNER DETAIL
K2A-SERIES FRAME @ SILL

#8 X 1-3/4" PFH WOOD SCREWS
THRU FRAME INTO SILL
(IN SWING & ADA SILLS ONLY)



CORNER DETAIL
IDP ENTRY-FIT™ ADJUSTABLE
STEEL DOOR FRAME (K2A-SERIES)



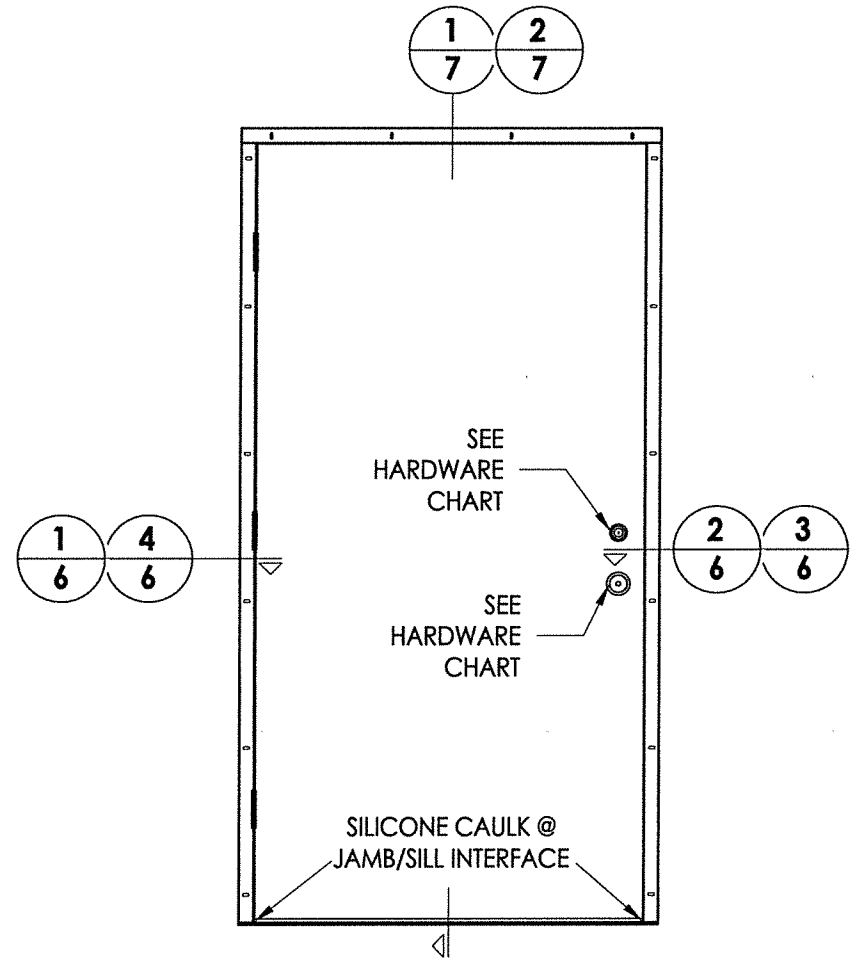
Documents Prepared By:
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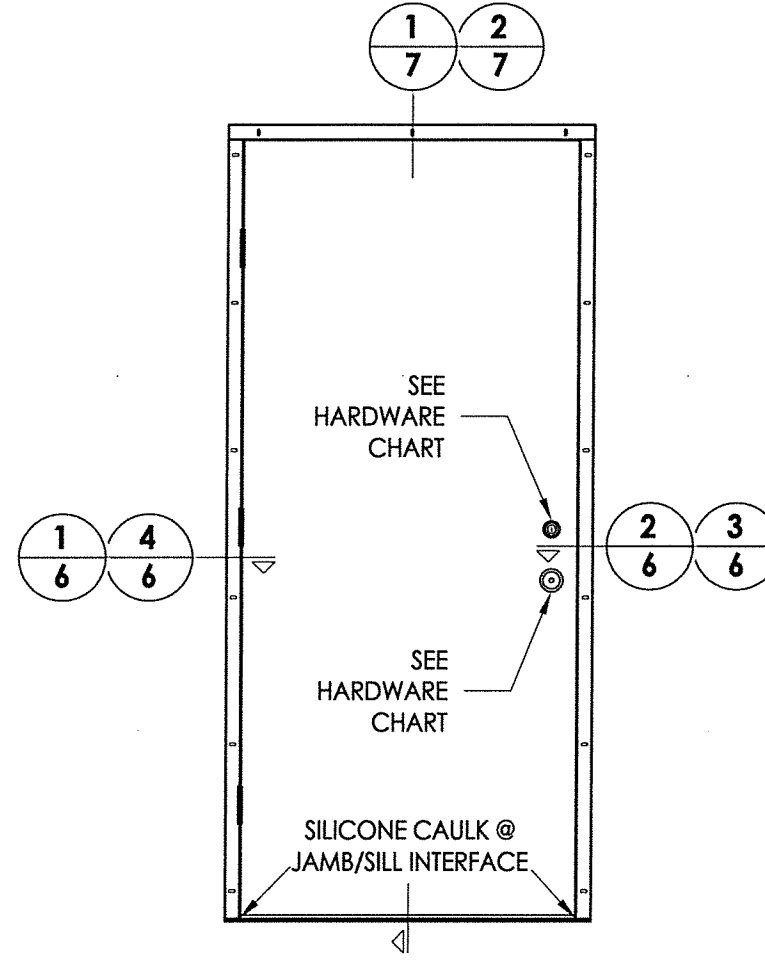
PRODUCT:	IDP STEEL FRAME (K2A-SERIES)
PART OR ASSEMBLY:	CORNER DETAIL

NO.	DATE	REVISIONS	BY
6	5/06/19	ADD SILL ANCHORING OPTION	LFS
5	4/17/18	CLARIFY FRAME ANCHORING	LFS
4	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC	JK
2	5/21/12	UPDATE TO 2010 FBC	LFS
1	5/17/11	REV. THRESHOLD NOTES/ANCHORS	LFS

DATE:	4/11/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14512.1
SHEET	4 OF 10

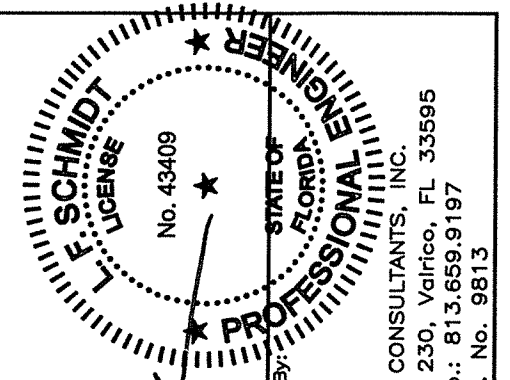


TAYLOR DOOR



MASONITE DOOR

HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	LOCK: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	LEVER: "F" SERIES (F51)
	DEADBOLT: "B" SERIES (B300)



LFS
5.6.19

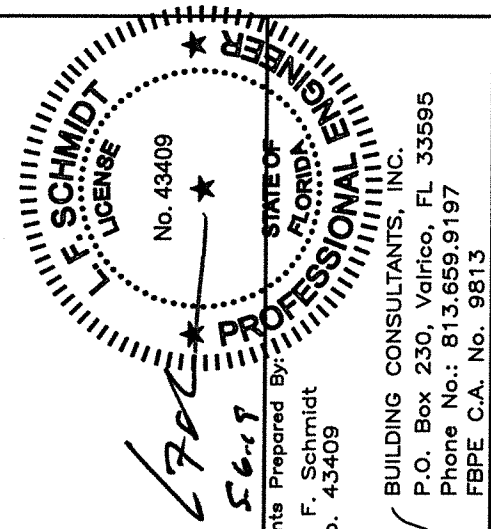
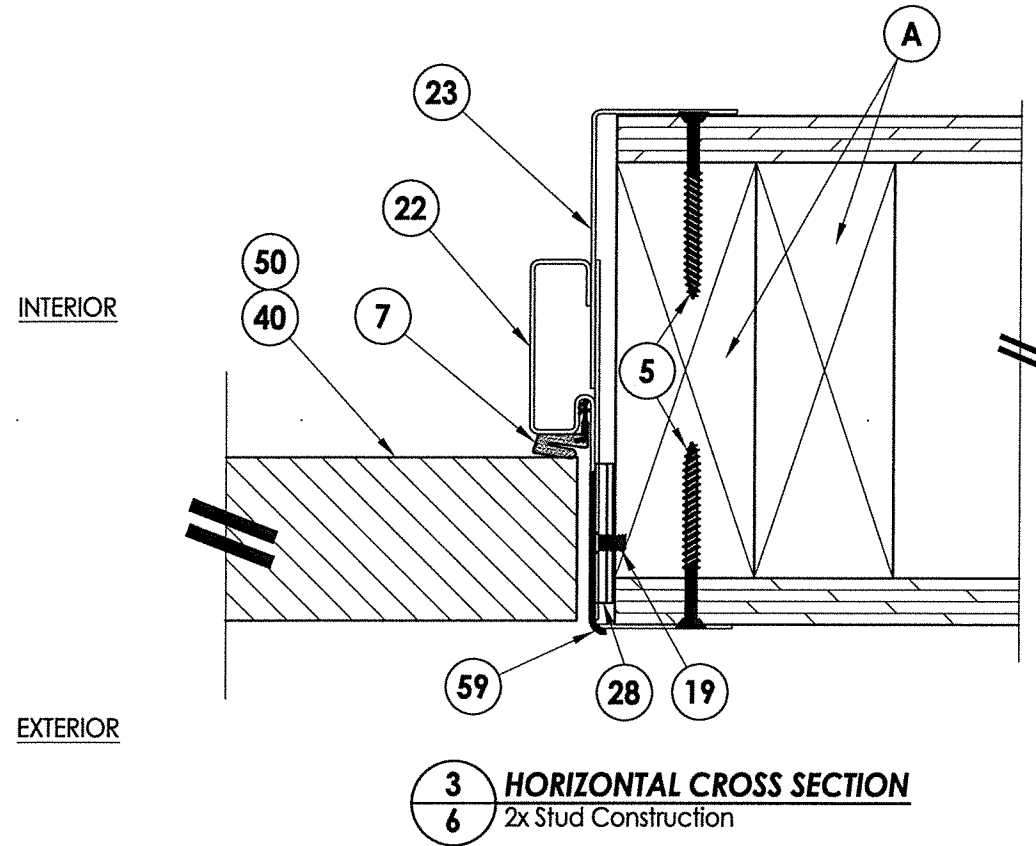
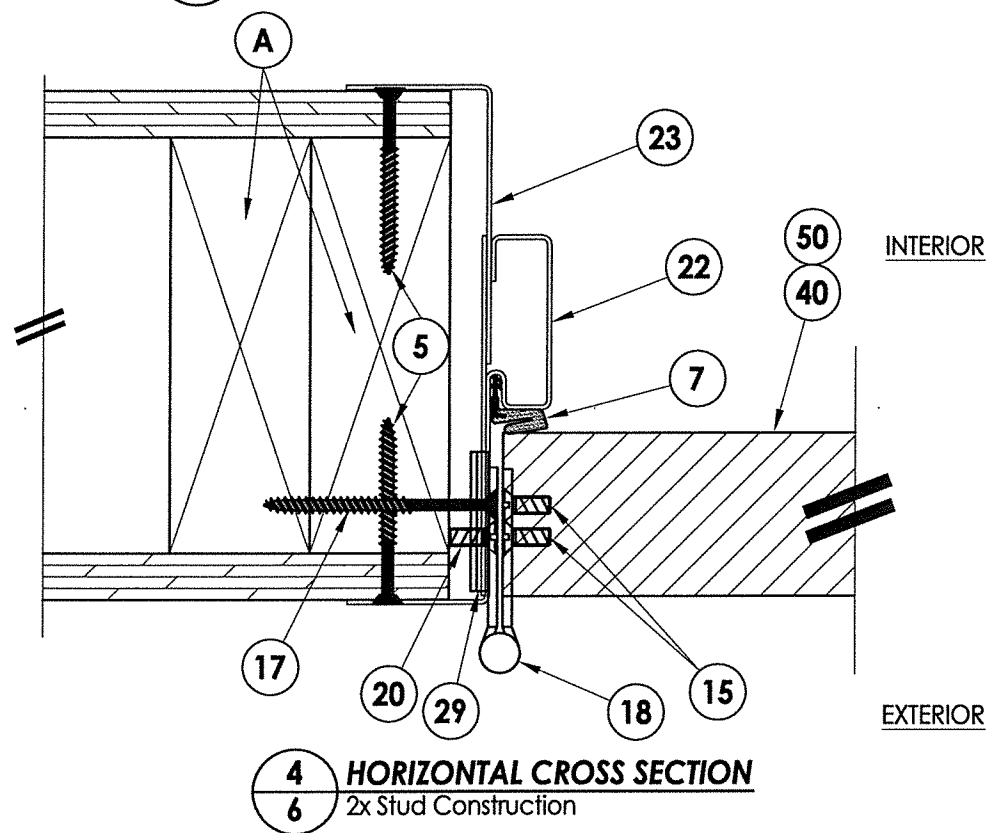
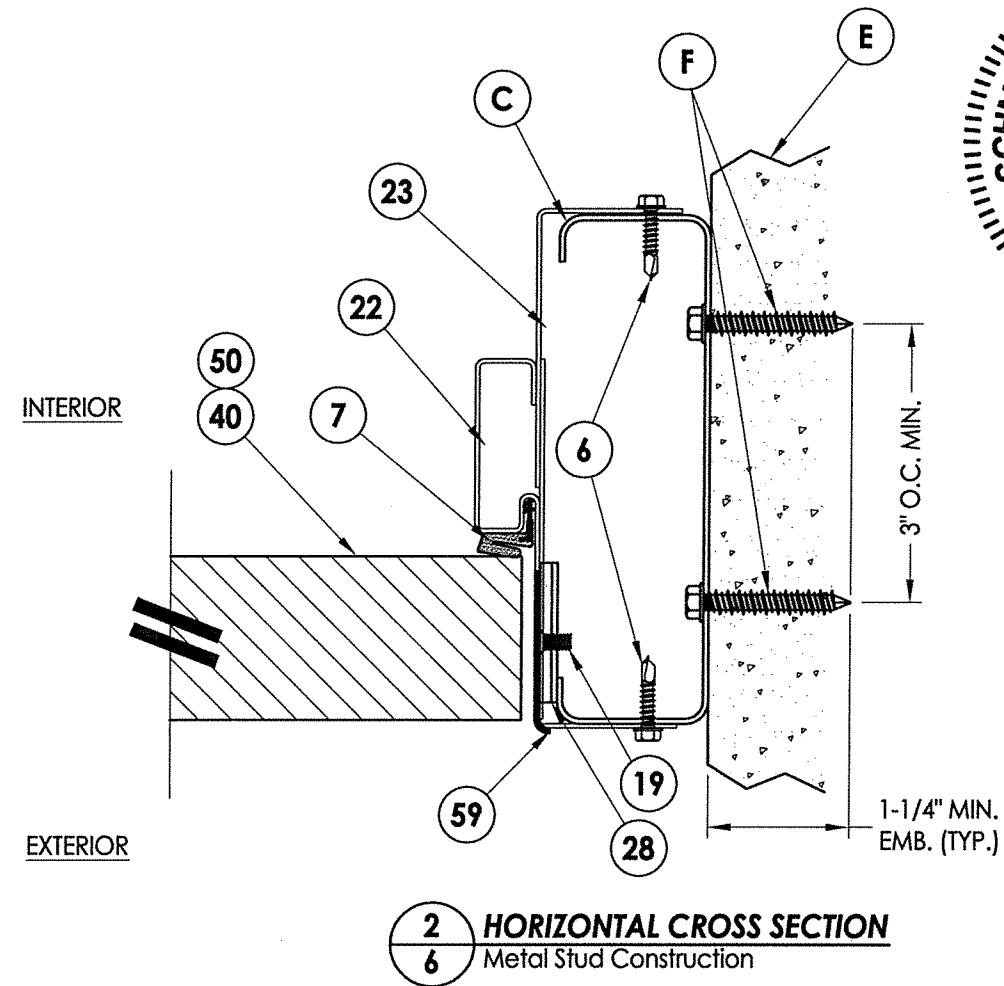
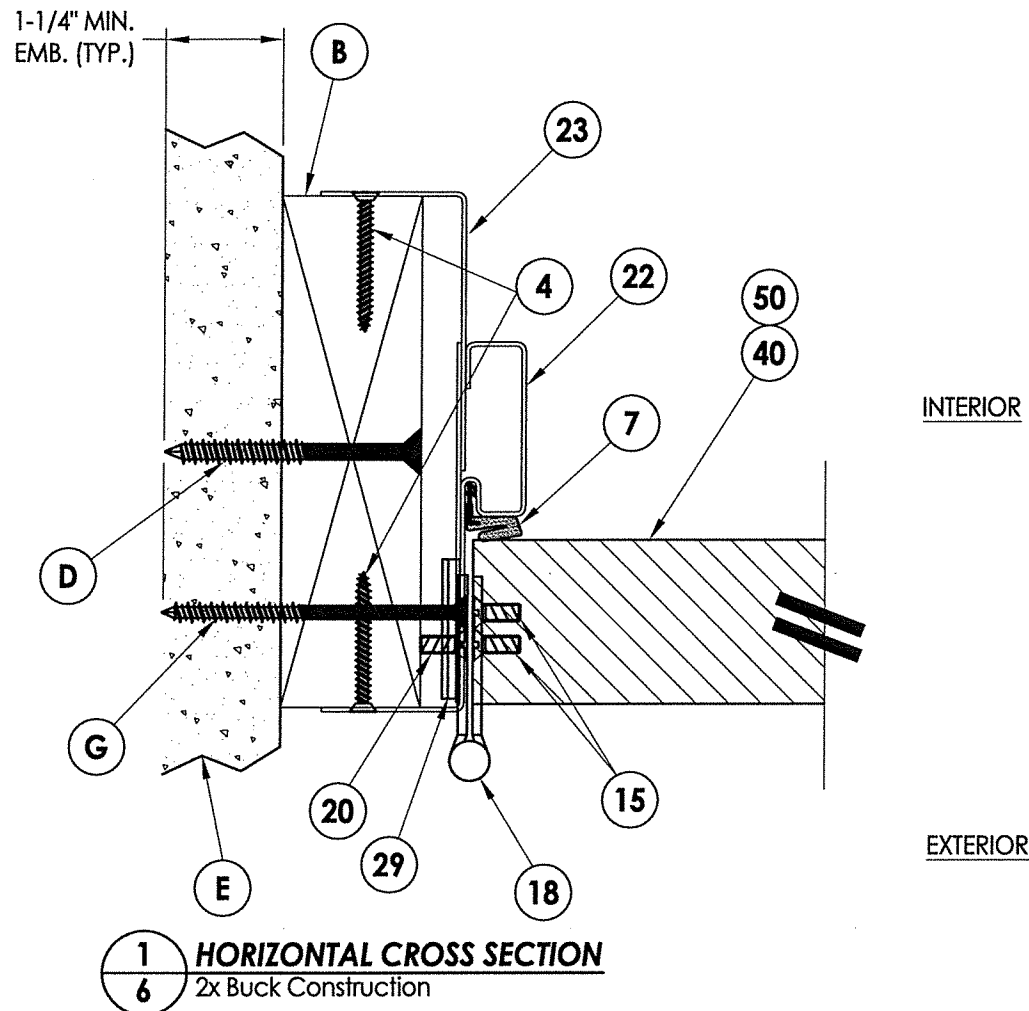
Documents Prepared By:
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Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: STEEL FRAME (K2A-SERIES)
PART OR ASSEMBLY: ELEVATIONS

NO.	DATE	REVISIONS
6	5/06/19	ADD SILL ANCHORING OPTION
5	4/17/18	CLARIFY FRAME ANCHORING
4	9/26/17	UPDATE TO 6TH ED. (2017) FBC
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC
2	5/21/12	UPDATE TO 2010 FBC
1	5/17/11	REV. THRESHOLD NOTES/ANCHORS

DATE: 4/11/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14512.1
SHEET 5 OF 10



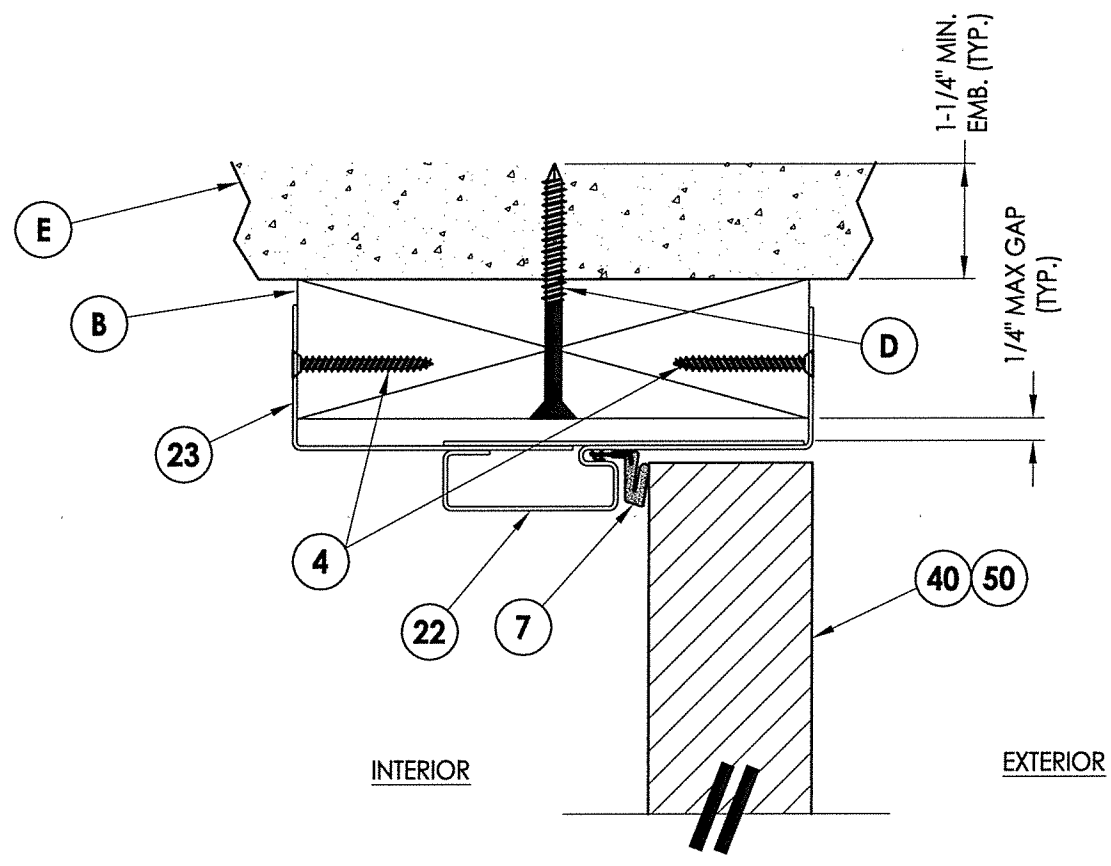
Documents Prepared By:
Lyndon F. Schmidt
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

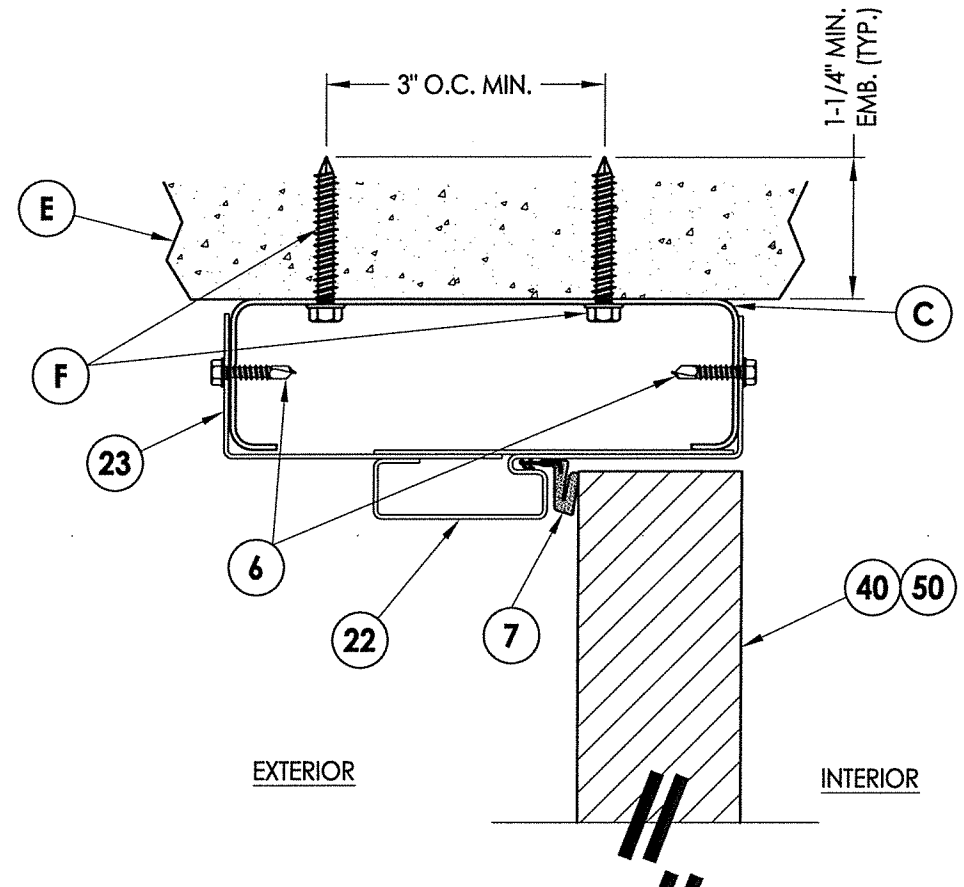
PRODUCT:	IDP STEEL FRAME (K2A-SERIES)
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
6	5/06/19	ADD SILL ANCHORING OPTION	LFS
5	4/17/18	CLARIFY FRAME ANCHORING	LFS
4	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC	JK
2	5/21/12	UPDATE TO 2010 FBC	LFS
1	5/17/11	REV. THRESHOLD NOTES/ANCHORS	LFS

DATE:	4/11/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14512.1
SHEET	6 OF 10

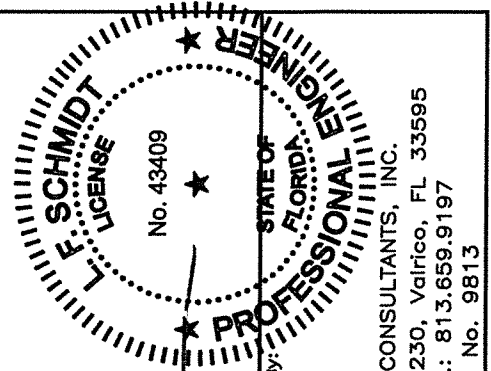


1 VERTICAL CROSS SECTION
7 Outswing



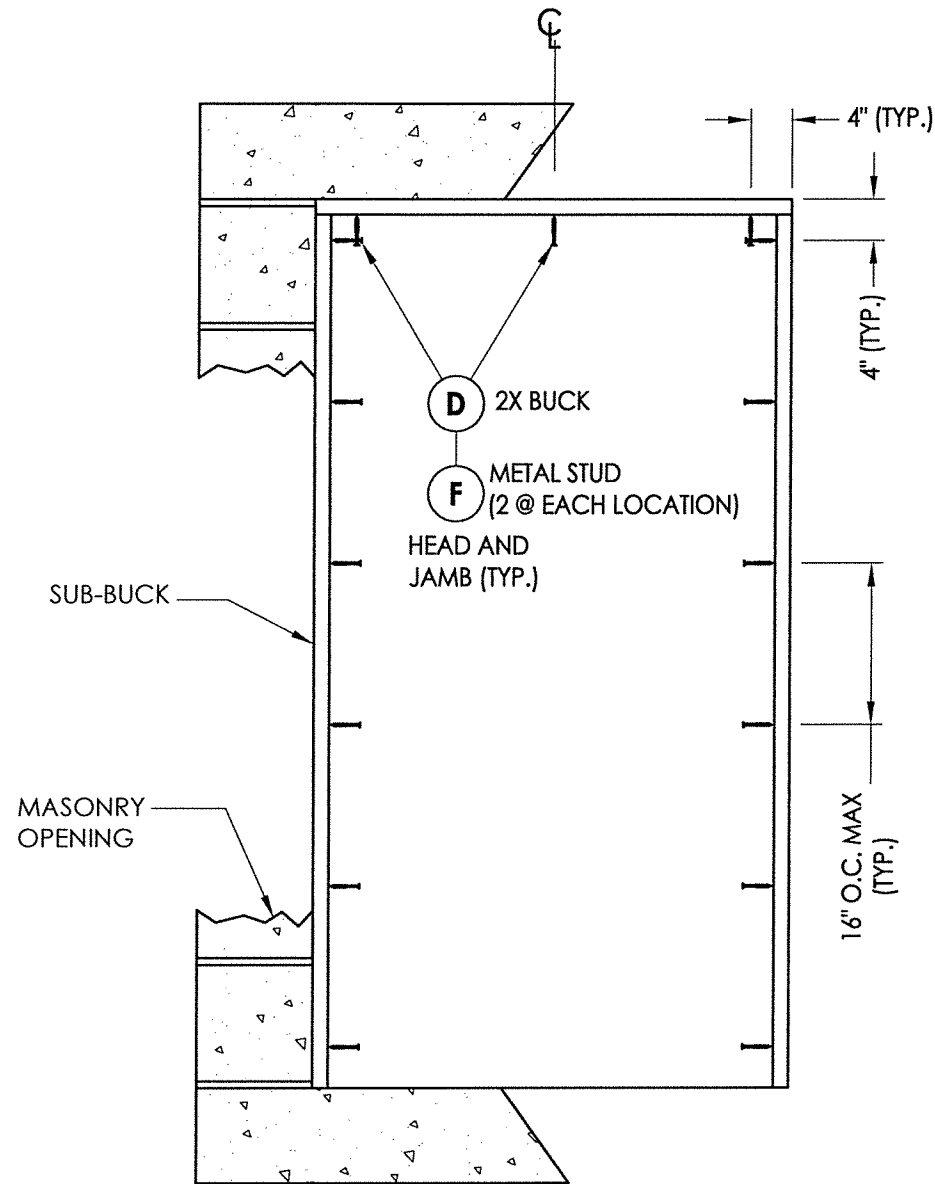
OPTIONAL FOR INSWING OR ADA SILLS
(SEE DETAIL SHEET 9)

2 VERTICAL CROSS SECTION
7 Inswing

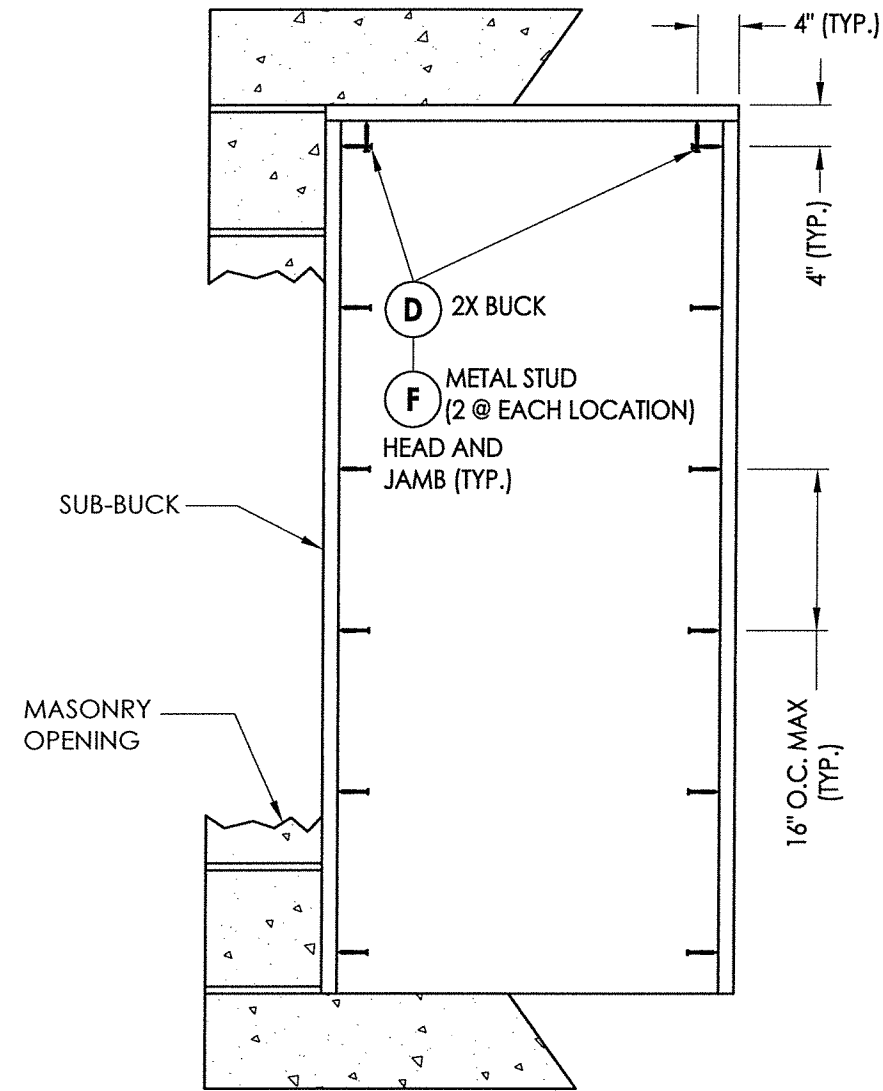


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Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:		IDP STEEL FRAME (K2A-SERIES)	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
LFS	ADD SILL ANCHORING OPTION	LFS	BY
LFS	CLARIFY FRAME ANCHORING	LFS	REVISIONS
JK	UPDATE TO 6TH ED. (2017) FBC	JK	
JK	UPDATE TO 5TH ED. (2014) FBC	LFS	
LFS	UPDATE TO 2010 FBC	LFS	
LFS	REV. THRESHOLD NOTES/ANCHORS	LFS	
NO.	DATE		
DATE: 4/11/11			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14512.1			
SHEET 7 OF 10			



BUCK ANCHORING
Taylor Door



BUCK ANCHORING
Masonite Door

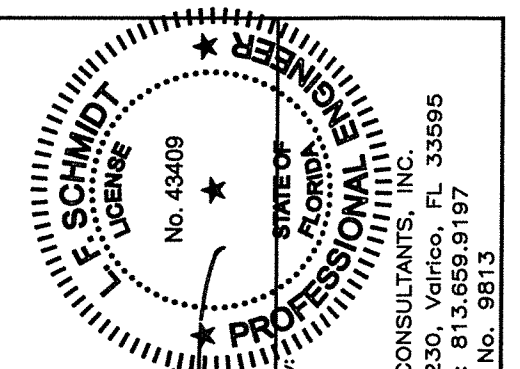
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

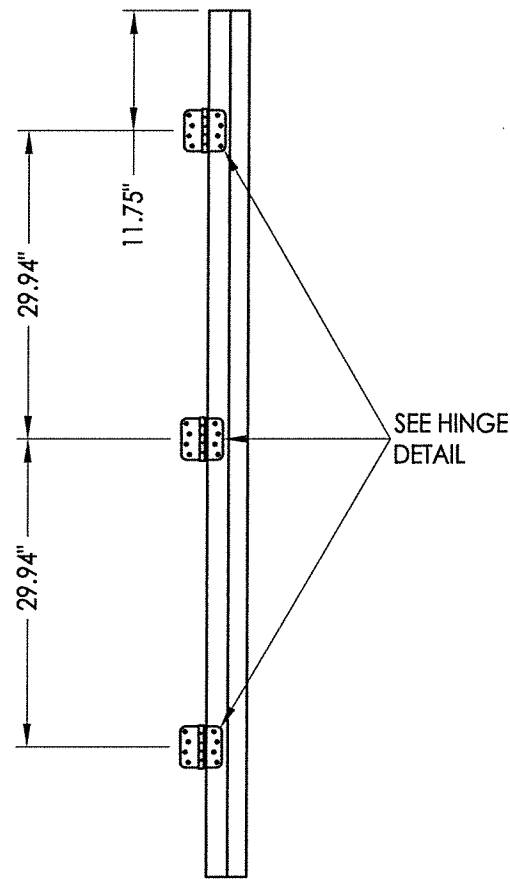


LFS
5.6.17

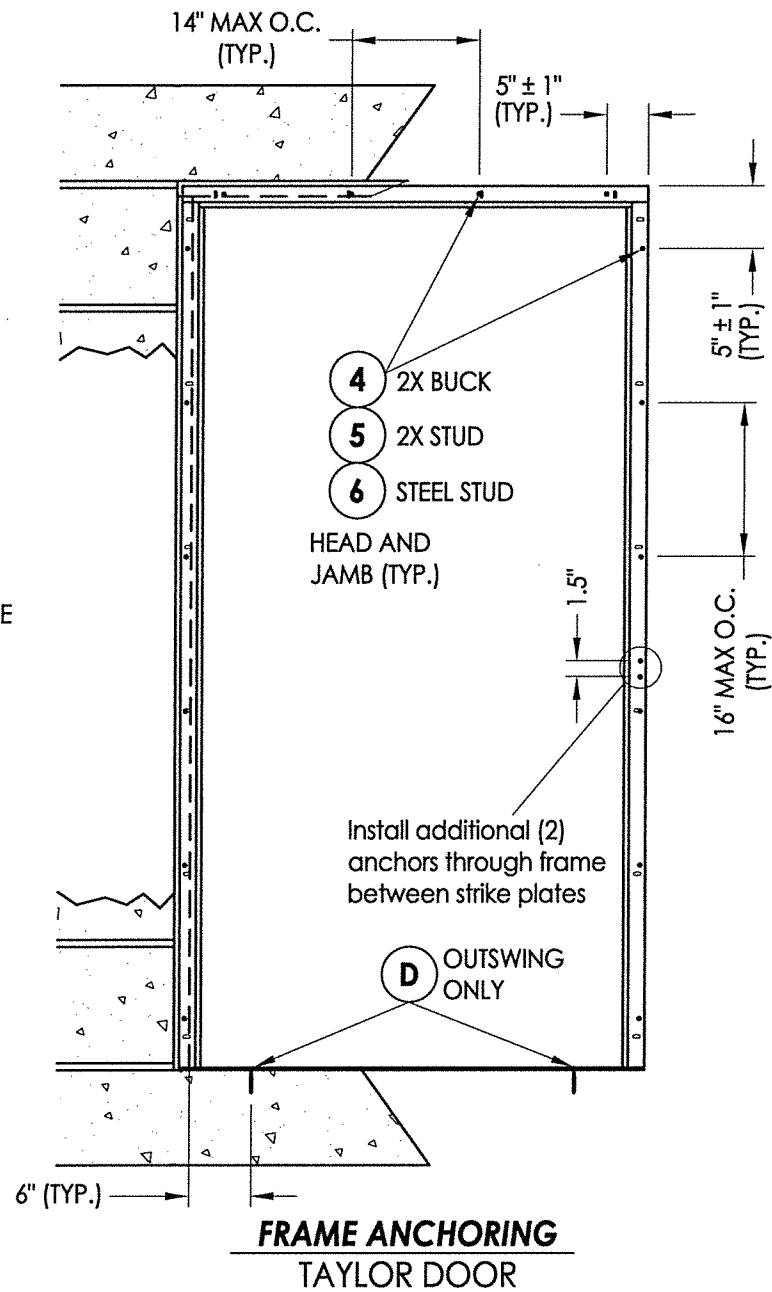
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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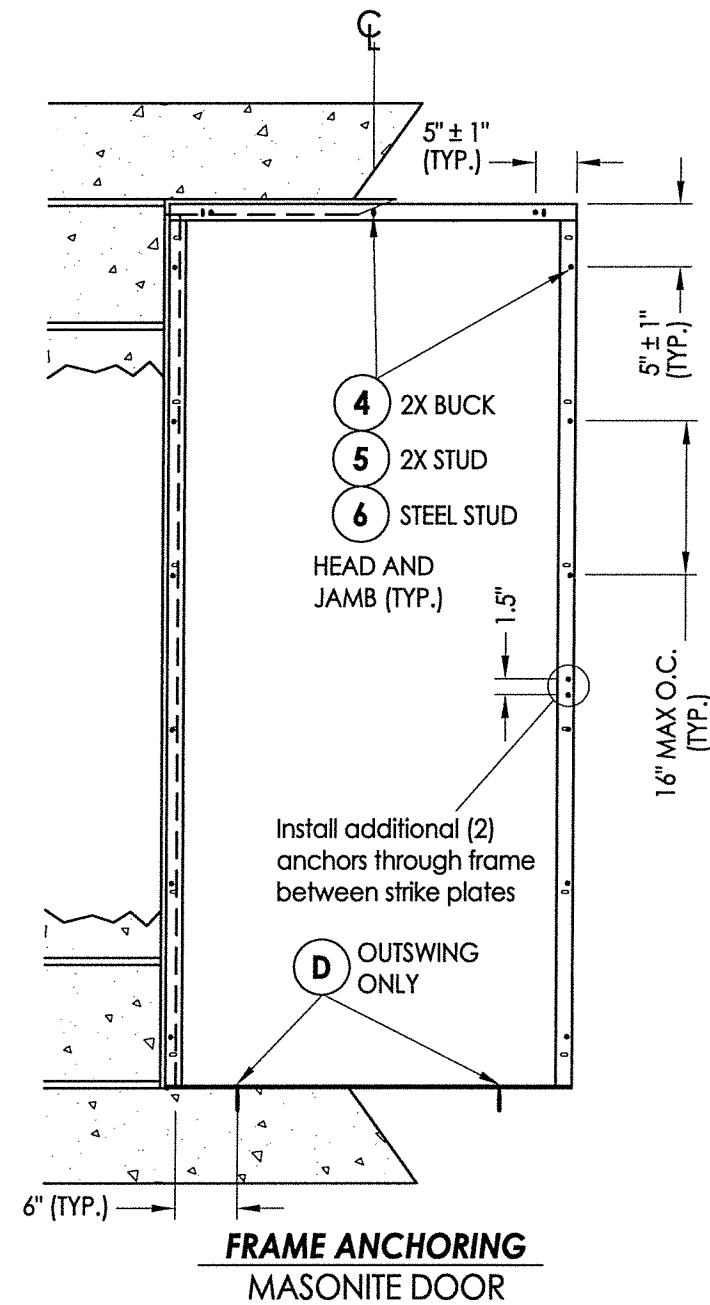
PRODUCT:	STEEL FRAME (K2A-SERIES)
PRODUCT:	BUCK ANCHORING
REVISIONS	
NO.	DATE
6	5/06/19
5	4/17/18
4	9/26/17
3	1/27/15
2	12/20/12
1	5/17/11
DATE: 4/11/11	
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DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-14512.1	
SHEET 8 OF 10	



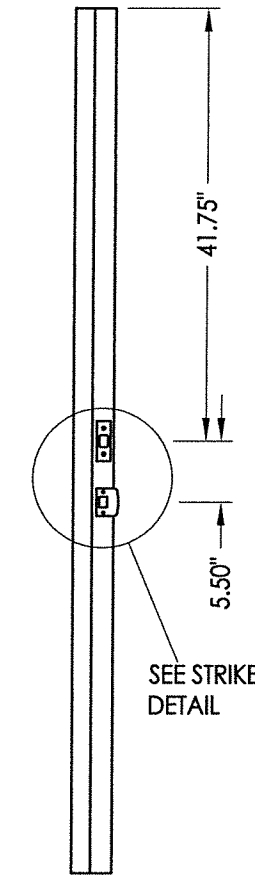
HINGE JAMB



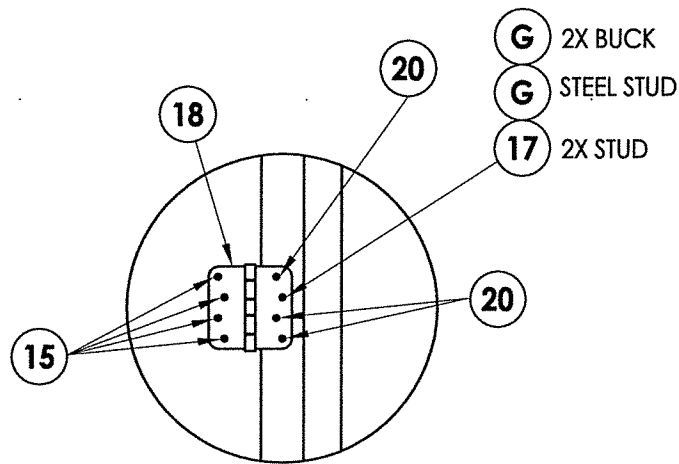
**FRAME ANCHORING
TAYLOR DOOR**



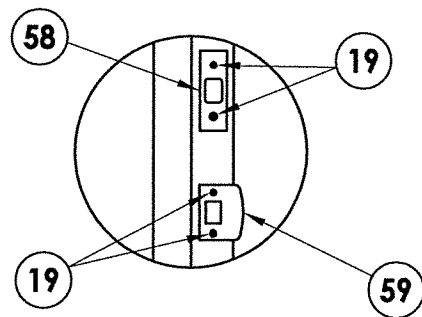
**FRAME ANCHORING
MASONITE DOOR**



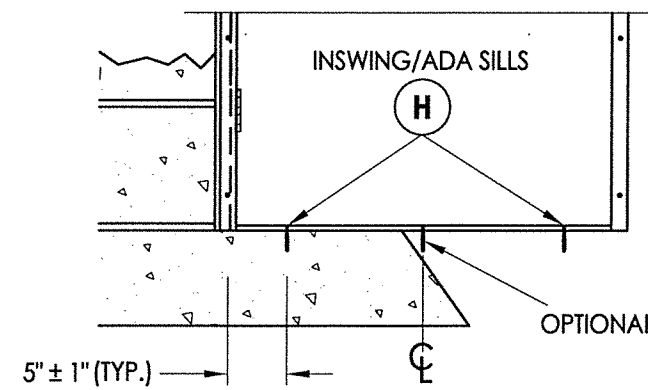
STRIKE JAMB



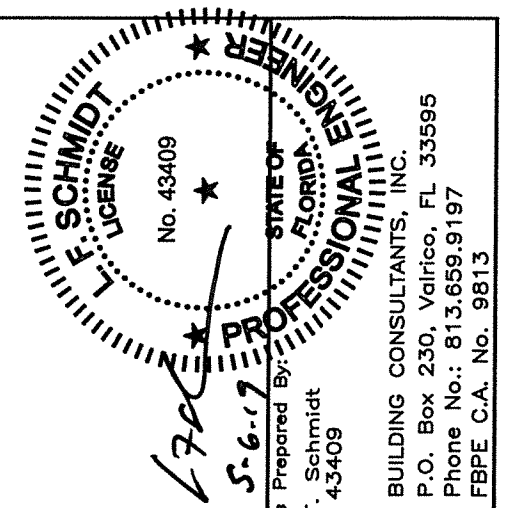
HINGE DETAIL



STRIKE PLATE DETAIL



**OPTIONAL SILL ANCHORING (INSWING OR ADA SILLS)
IN LIEU OF FRAME CORNER CONNECTIONS
(SEE CORNER DETAIL - SHEET 4)**



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 Phone No.: 813.659.9197
 FBPE C.A. No. 9813

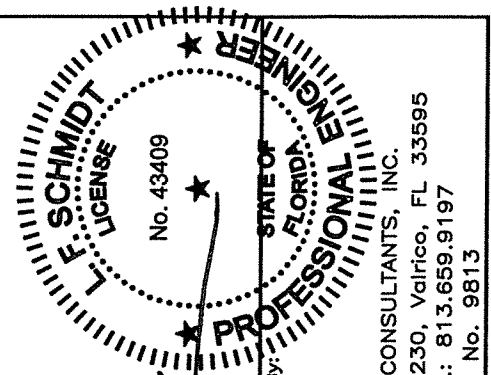
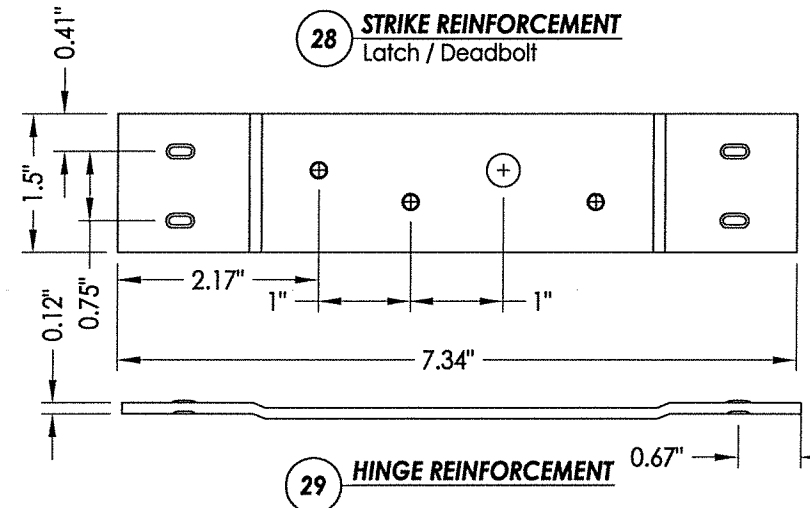
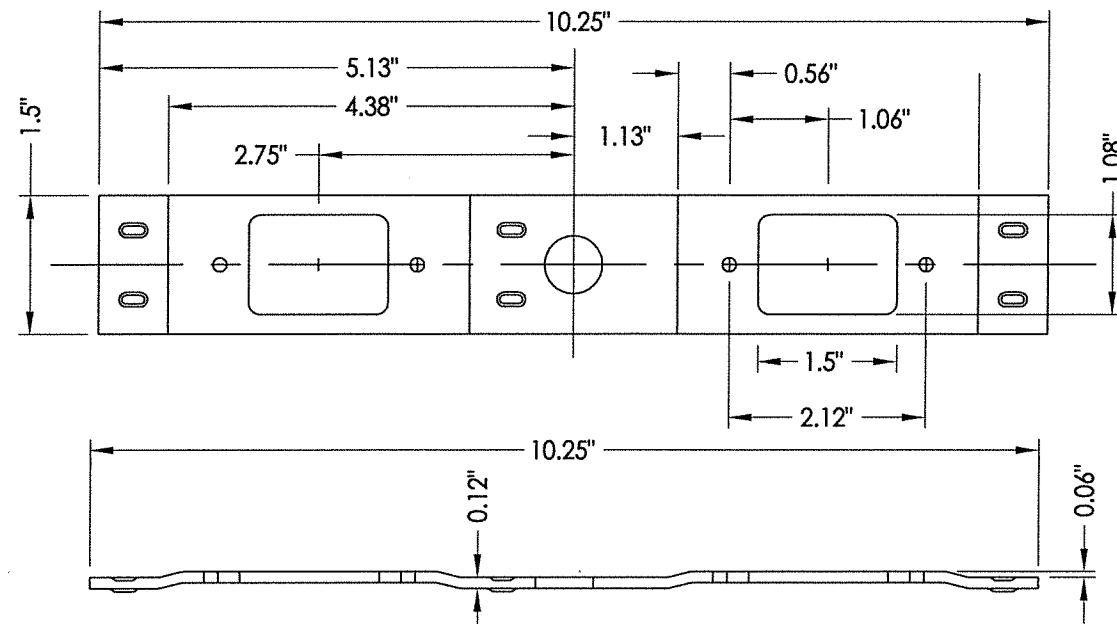
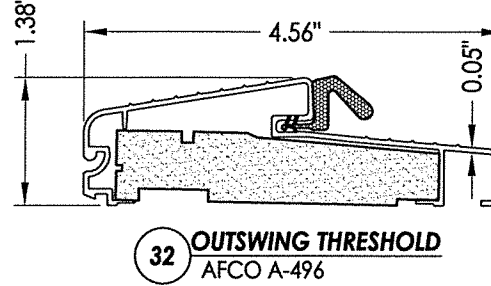
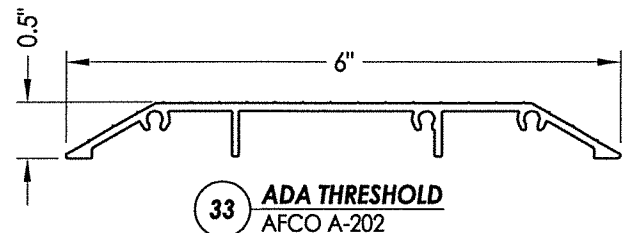
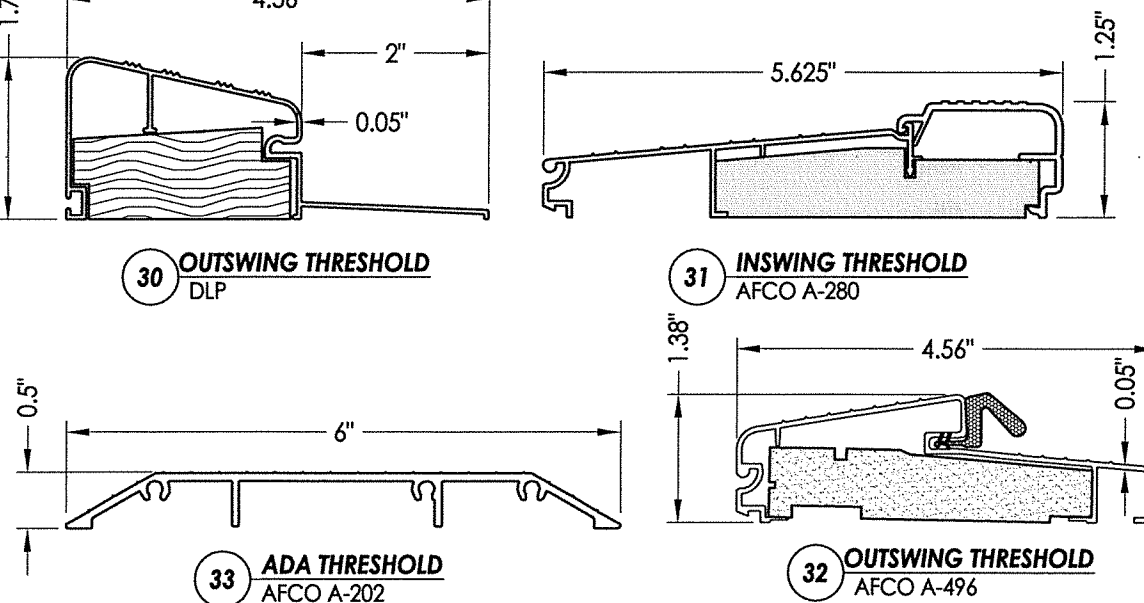
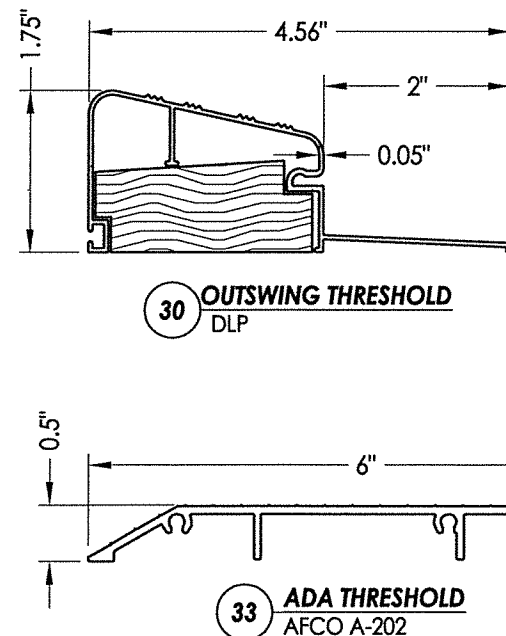
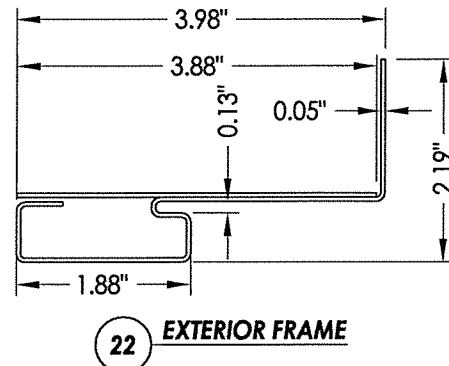
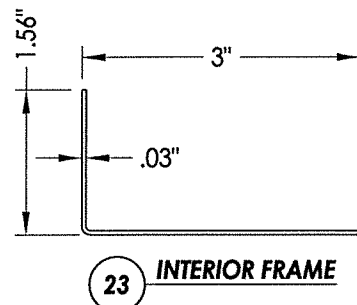
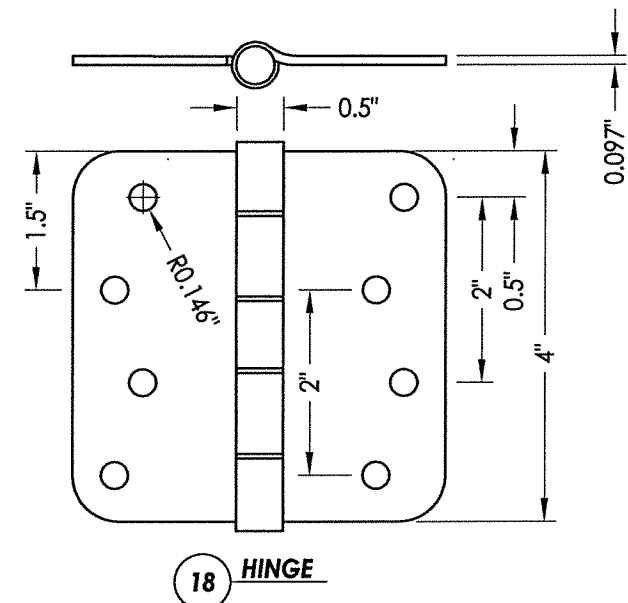
PRODUCT:
 IDP
 STEEL FRAME (K2A-SERIES)
 PART OR ASSEMBLY:
 FRAME ANCHORING

NO.	DATE	REVISIONS
6	5/06/19	ADD SILL ANCHORING OPTION
5	4/17/18	CLARIFY FRAME ANCHORING
4	9/26/17	UPDATE TO 6TH ED. (2017) FBC
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC
2	12/20/12	UPDATE TO 2010 FBC
1	5/17/11	REV. THRESHOLD NOTES/ANCHORS
		BY
		LFS
		LFS

DATE: 4/11/11
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-14512.1
 SHEET 9 OF 10

BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
A	2X STUD FRAMING (SG >= 0.55)	WOOD
B	2X BUCK (SG >= 0.55)	WOOD
C	METAL STUD (SSMA STUD 550S162-54, Fy = 33 ksi, Fu = 45 ksi)	STEEL
D	1/4" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 OR ASTM A653 STEEL	CONCRETE
F	3/16" X 1-3/4" HWH ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
H	1/4" X 2-1/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
4	#10 X 1-1/2" PFH SMS (1-1/4" MIN. EMBEDMENT)	STEEL
5	#10 X 2" PFH SMS (1-1/4" MIN. EMBEDMENT)	STEEL
6	#10 X 3/4" HWH SELF-DRILLING TEK SCREW (3 THREADS MUST PROTRUDE THRU STEEL)	STEEL
7	COMPRESSION WEATHERSTRIPPING QLON QDS 650 BY SCHLEGEL	-
15	10-24 X 5/8" PFH MS	STEEL
17	#10 X 2-1/2" PFH WS	STEEL
18	4.0" X 4.0" HINGE	STEEL
19	8-32 X 3/8" PFH MS	STEEL
20	10-24 X 1/2" PFH MS	STEEL
22	IDP (K2A-SERIES) EXTERIOR FRAME (18 GA. - A60 GALVANNEALED STEEL)	STEEL
23	IDP (K2A-SERIES) INTERIOR FRAME (22 GA. - A60 GALVANNEALED STEEL)	STEEL
28	HINGE LATCH AND DEADBOLT REINFORCEMENT	STEEL
29	HINGE REINFORCEMENT	STEEL
30	OUTSWING THRESHOLD	ALUM/WOOD
31	INSWING THRESHOLD	ALUM/COMP
32	OUTSWING THRESHOLD	ALUM/COMP
33	ADA THRESHOLD	ALUM
40	TAYLOR STEEL DOOR - SEE DOOR PANEL DETAILS	-
50	MASONITE STEEL DOOR - SEE DOOR PANEL DETAILS	-
58	STRIKE PLATE - DEADBOLT	STEEL
59	" T " STRIKE PLATE - LATCH	STEEL



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

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

PRODUCT:
IDP (K2A-SERIES)
STEEL FRAME (K2A-SERIES)

PART OR ASSEMBLY:
BILL OF MATERIALS
AND COMPONENTS

NO.	DATE	REVISIONS
6	5/06/19	ADD SILL ANCHORING OPTION
5	4/17/18	CLARIFY FRAME ANCHORING
4	9/26/17	UPDATE TO 6TH ED. (2017) FBC
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		BY
		LFS
		LFS
		LFS

DATE: 4/11/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14512.1
SHEET 10 OF 10