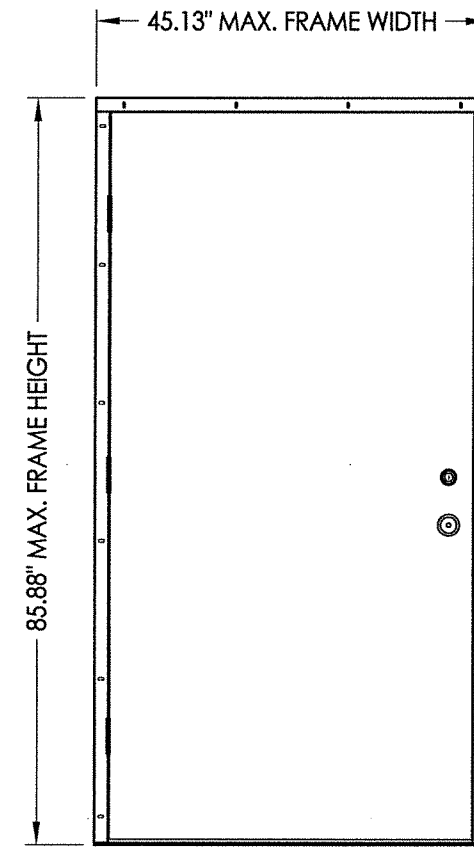
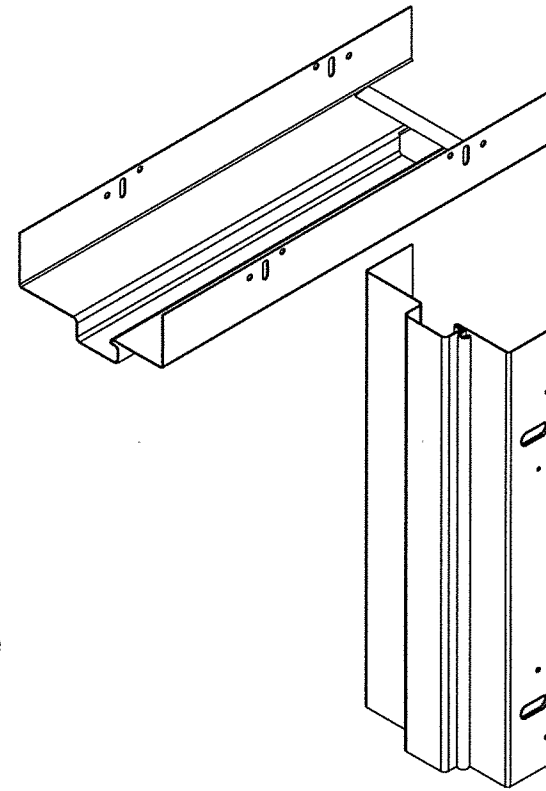




21300 W 8 Mile Rd.  
Southfield, MI 48075-5638

# ENTRY-FIT™ "F-Series" FIXED STEEL DOOR FRAME Utilizing a Steel Door Panel "IMPACT"



**FIXED STEEL DOOR FRAME**  
F-Series

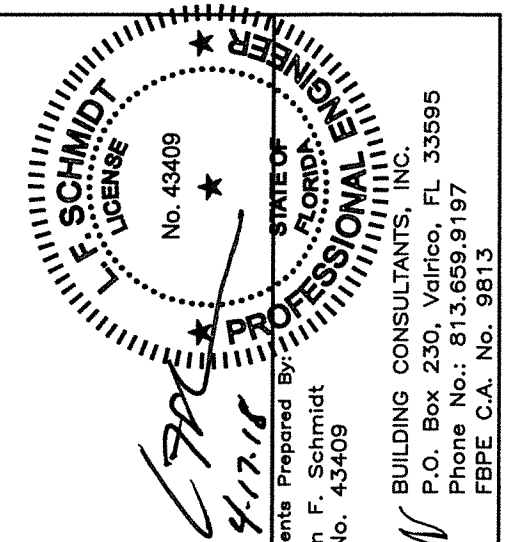
**INSWING OR OUTSWING**

OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
45.13" X 85.88"	+ 60.0	- 60.0

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

**GENERAL NOTES**

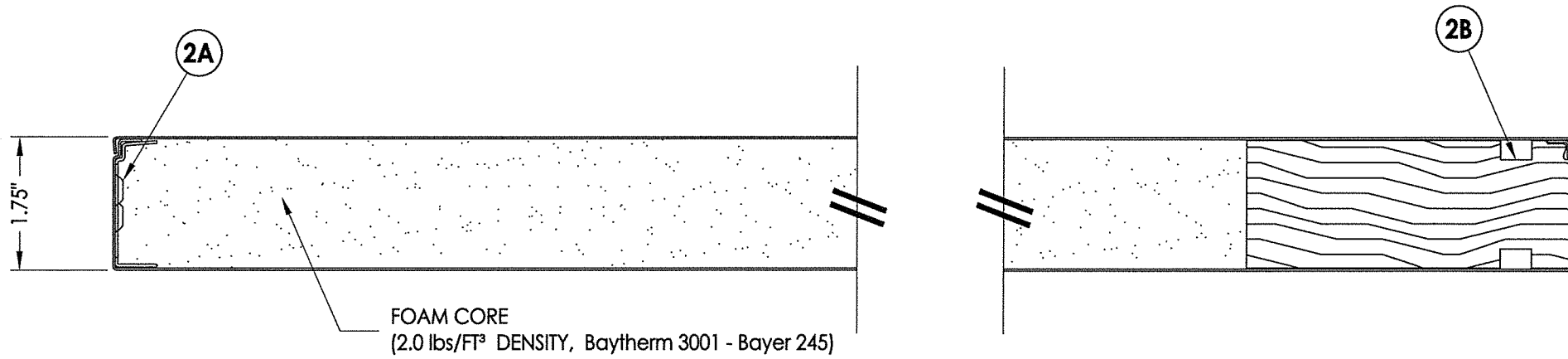
- This product has been evaluated and is in compliance with the 6th Edition (2017) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
- 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.
- 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.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
- Configurations utilizing the high-dam outswing bump threshold (item #30) meet water infiltration requirements for the "HVHZ".
- 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.
- When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6.



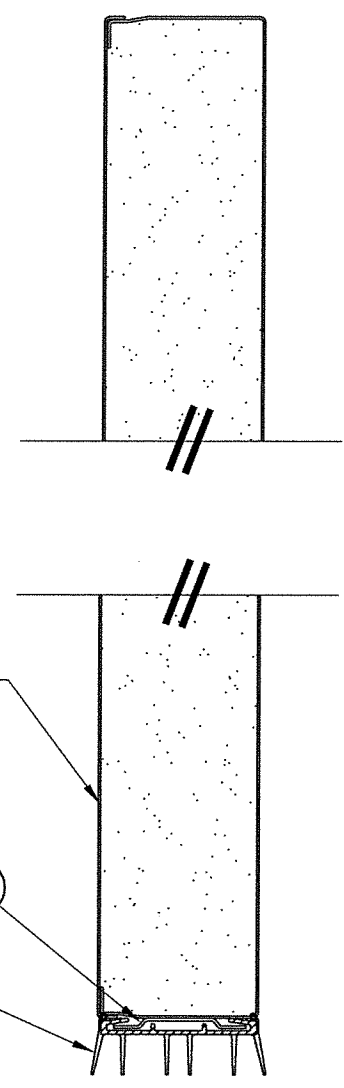
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

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

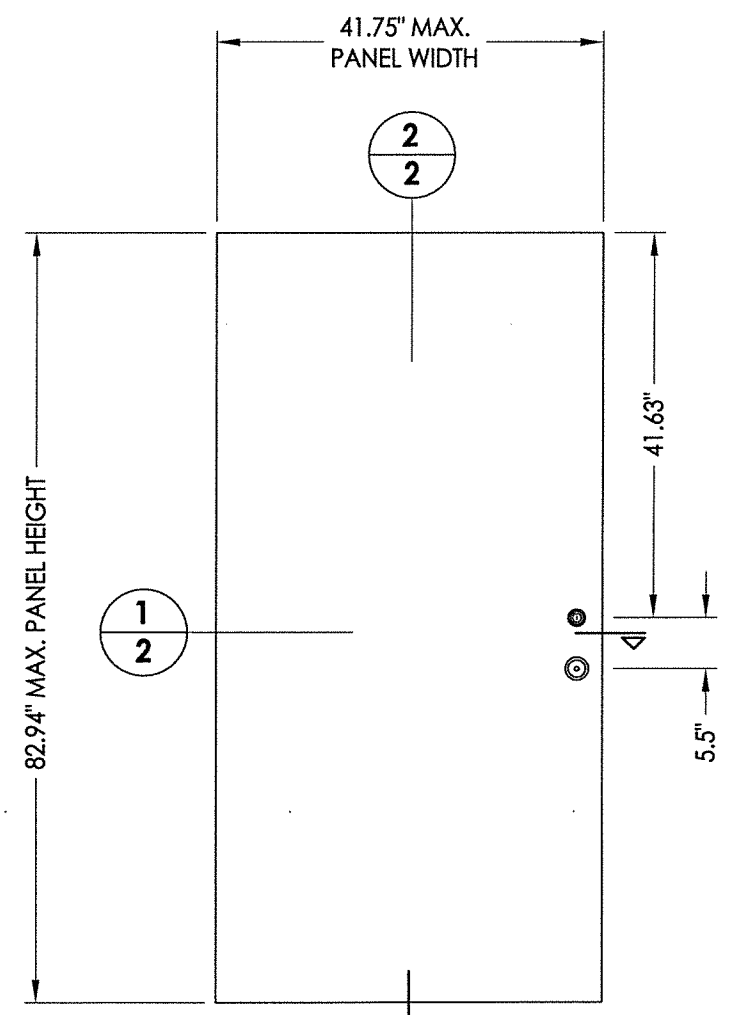
PRODUCT:		IDP STEEL FRAME (F-SERIES)	
PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURE & GENERAL NOTES	
5	4/17/18	CLARIFY FRAME ANCHORING	LFS
4	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC	JK
2	5/21/12	UPDATE TO 2010 FBC	LFS
1	5/17/11	REV. THRESHOLD NOTES/ANCHORS	LFS
	NO. DATE		BY
REVISIONS			
DATE:		4/11/11	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-14512.2	
SHEET		1 OF 7	



1  
2 **HORIZONTAL CROSS SECTION**

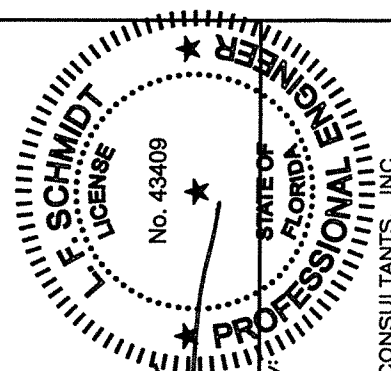
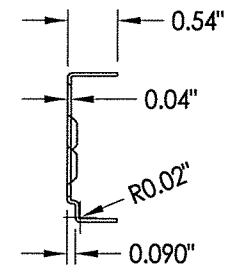
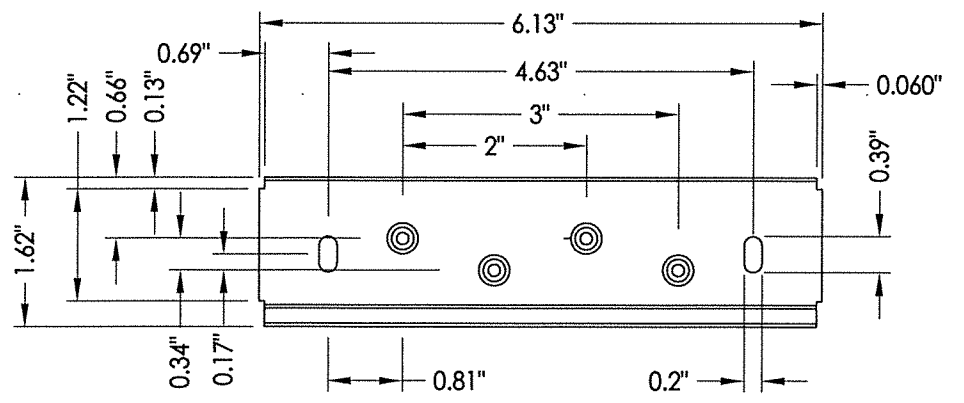
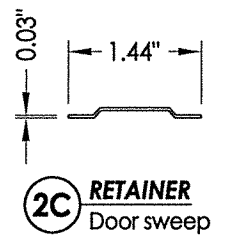
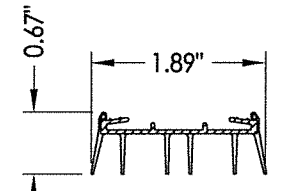
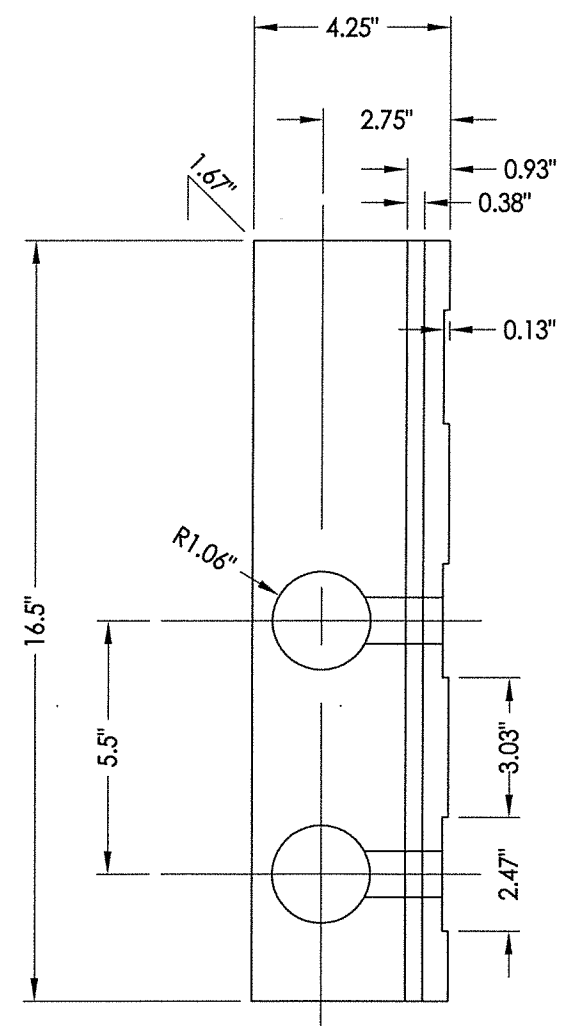


2  
2 **VERTICAL CROSS SECTION**



40 **DOOR PANEL**  
Steel (Taylor)

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



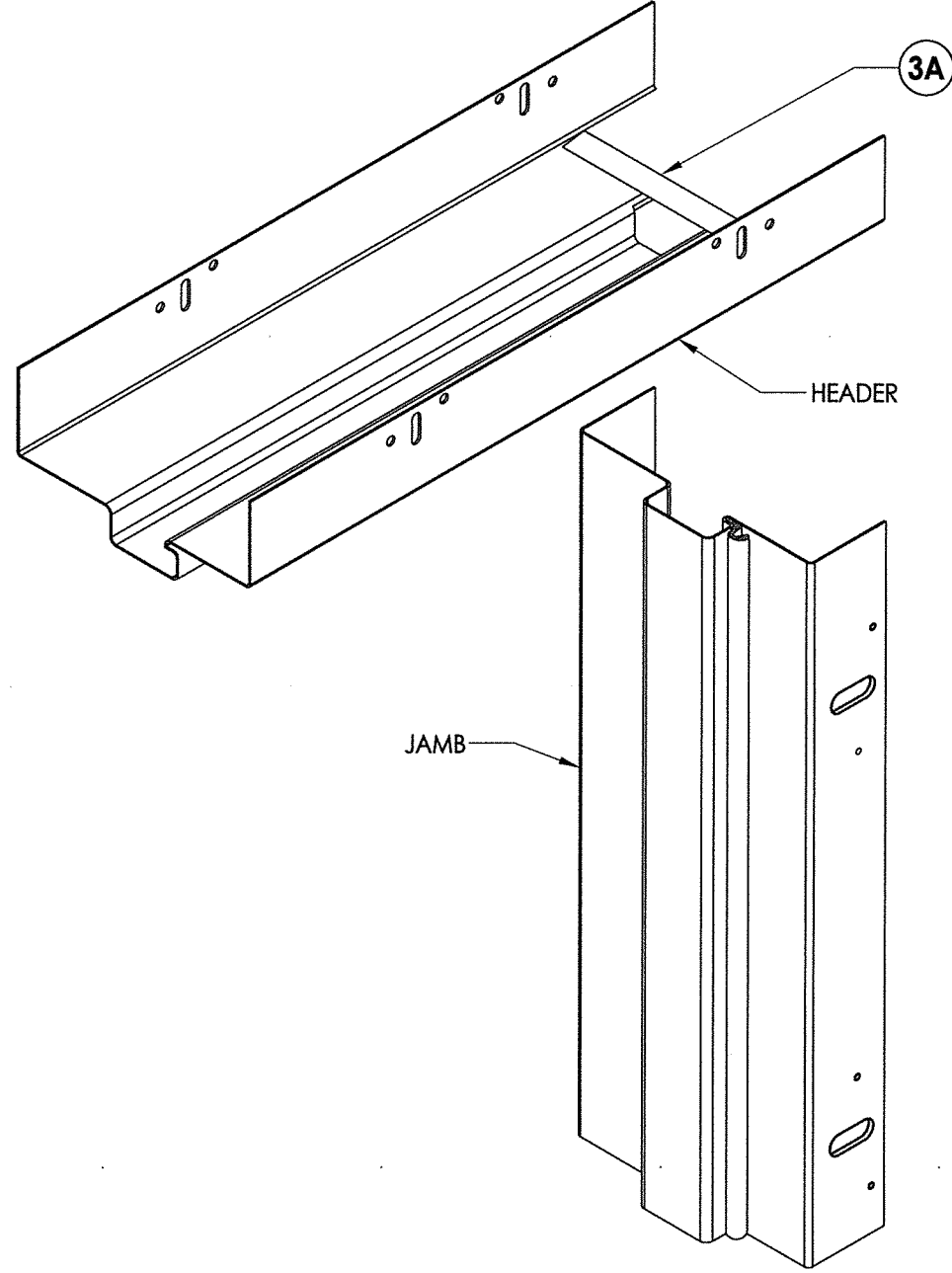
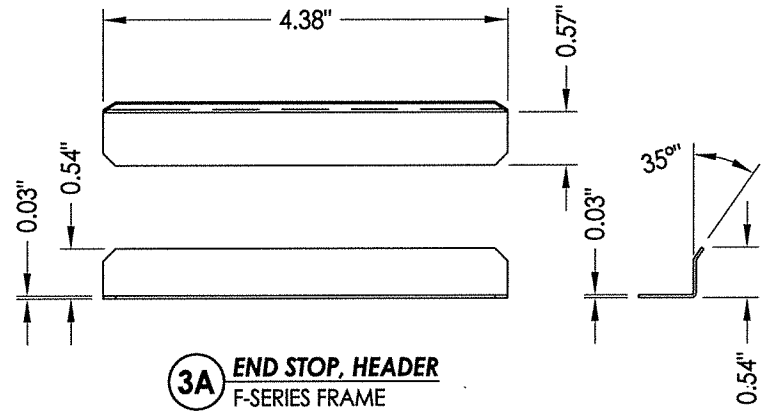
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

4.17.18

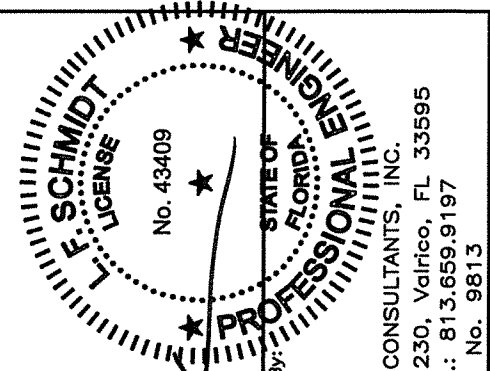
RW BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT:		IDP STEEL FRAME (F-SERIES)	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
LFS	JK	LFS	JK
5	4/17/18	CLARIFY FRAME ANCHORING	REVISIONS
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	
NO.	DATE		

DATE: 4/11/11  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-14512.2  
SHEET 2 OF 7



**CORNER DETAIL**  
**F-SERIES**



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

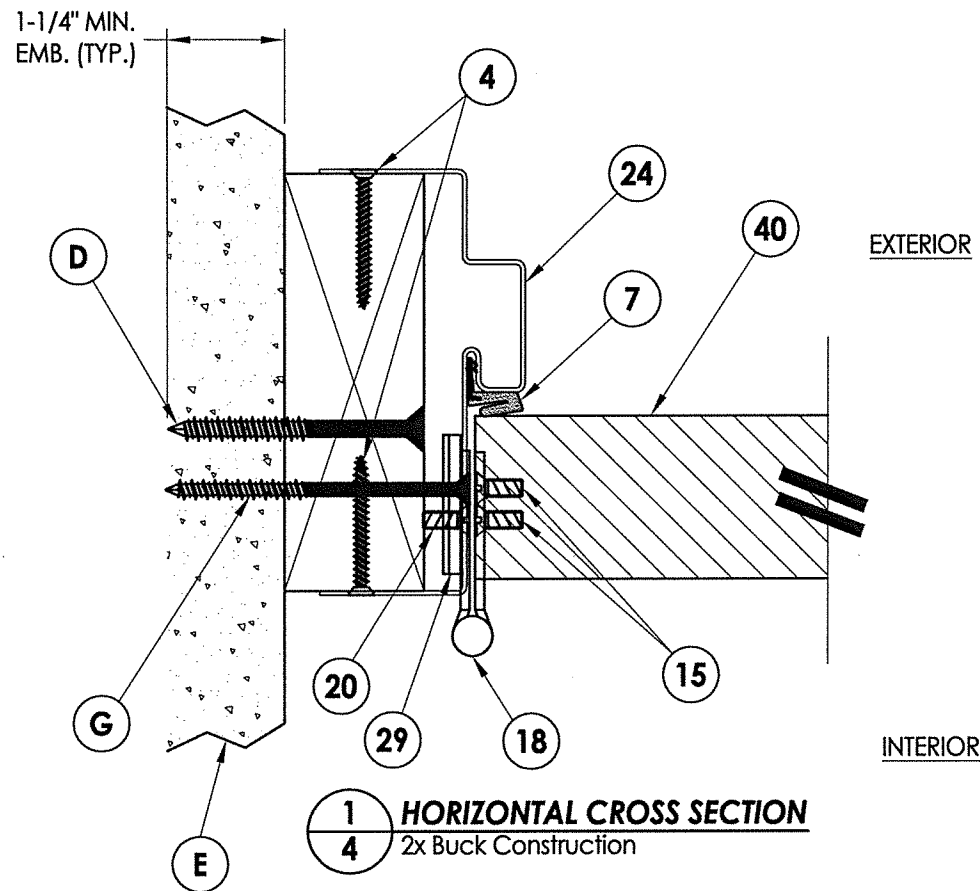
*R.W.* BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT: IDP STEEL FRAME (F-SERIES)  
PART OR ASSEMBLY: CORNER DETAIL

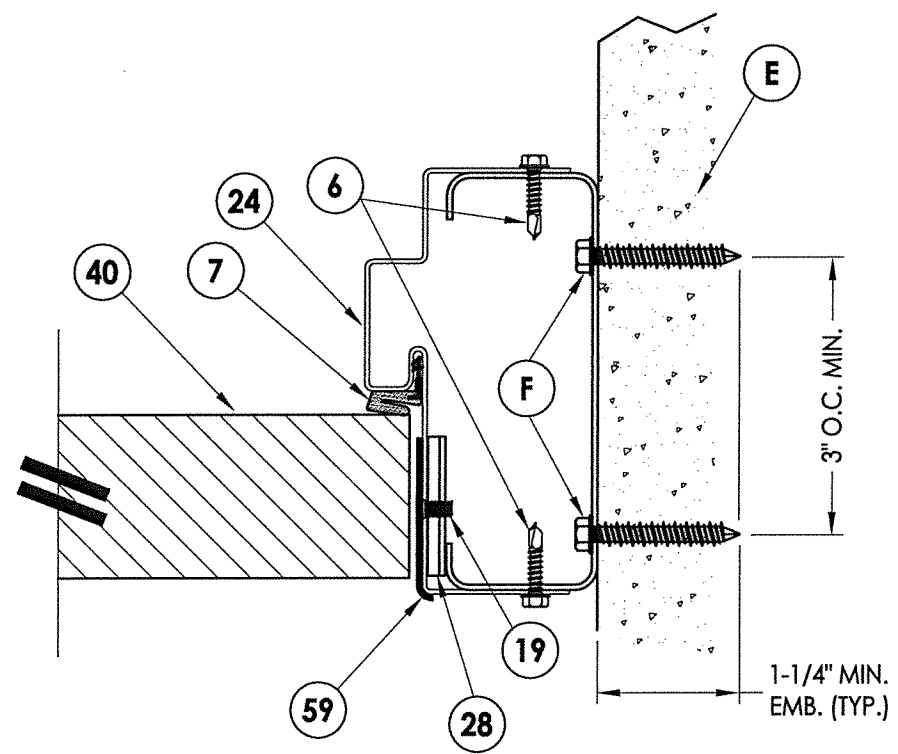
NO.	DATE	REVISIONS
5	4/17/18	CLARIFY FRAME ANCHORING
4	9/26/17	UPDATE TO 6TH ED. (2017) FBC
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC
2	5/21/12	UPDATE TO 2010 FBC
1	5/17/11	REV. THRESHOLD NOTES/ANCHORS
		BY
		LFS

DATE: 4/11/11  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-14512.2  
SHEET 3 OF 7

R:\Clients\IDP PERMANENTVA - Florida Product Approvals\FL-14512\C - Drawings\FL 14512 (2017)\FL-14512.1 - 2.dwg, 4.2

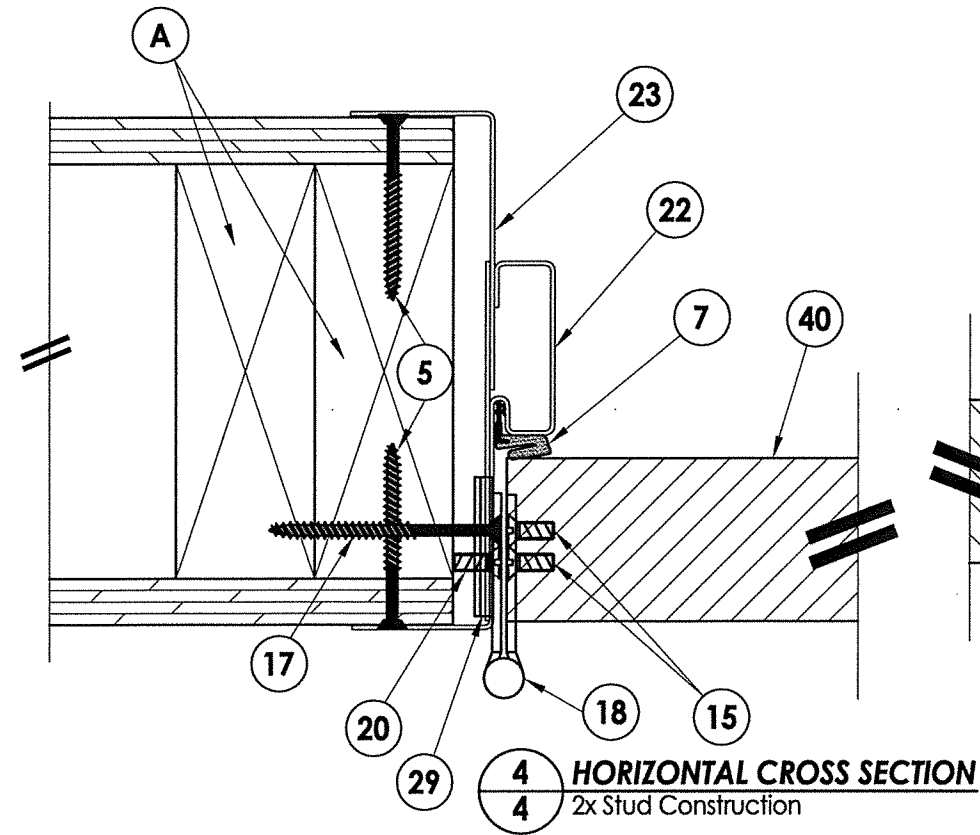
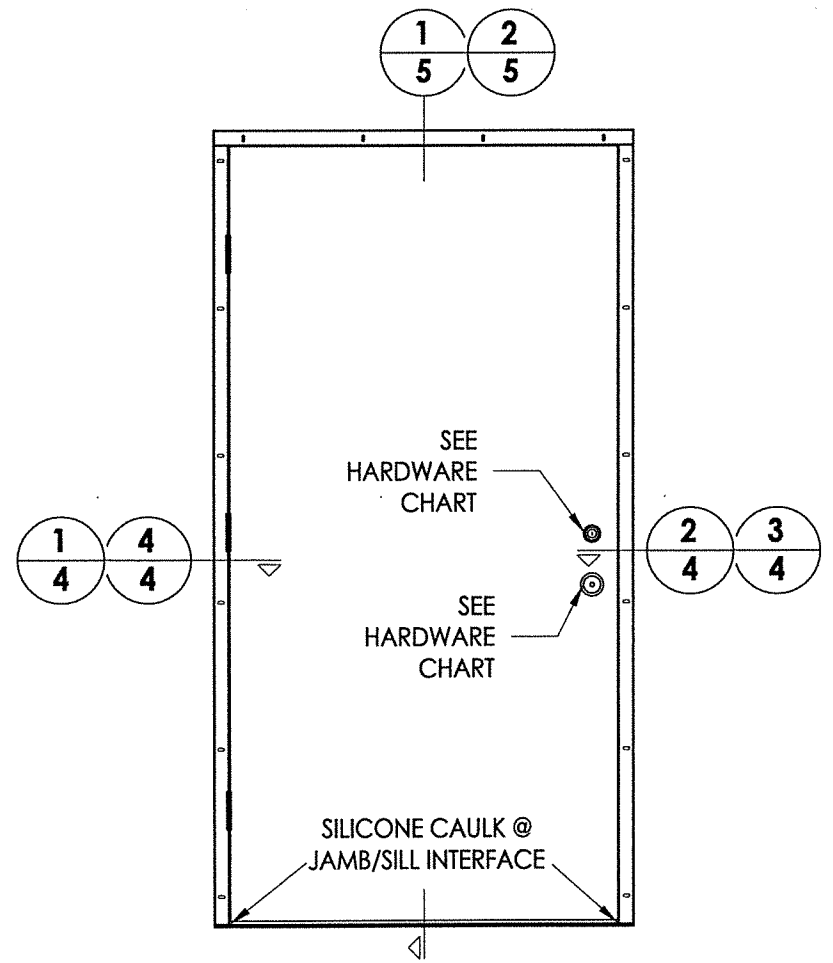


**1**  
**4** **HORIZONTAL CROSS SECTION**  
2x Buck Construction

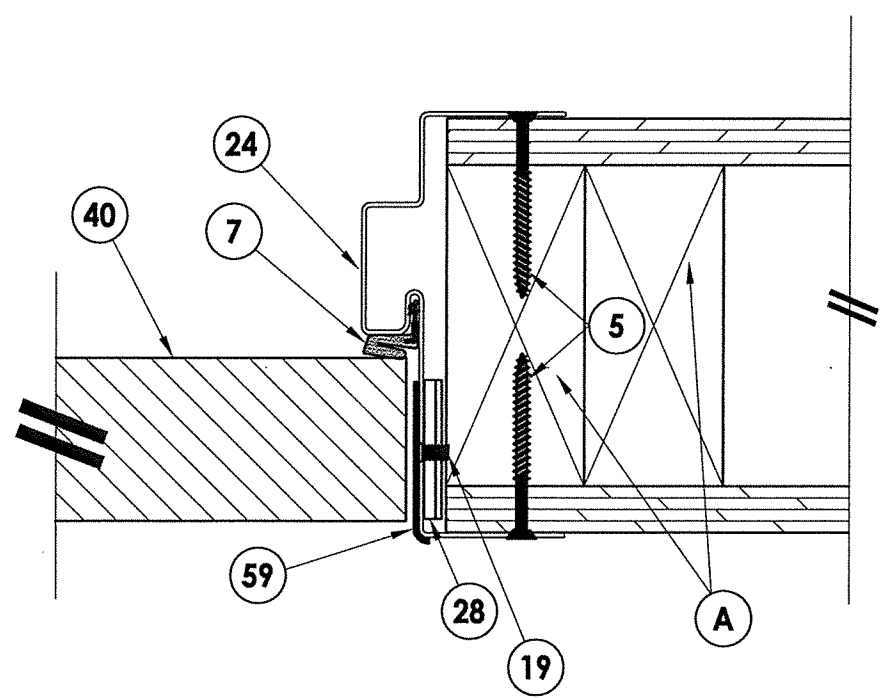


**2**  
**4** **HORIZONTAL CROSS SECTION**  
Metal Stud Construction

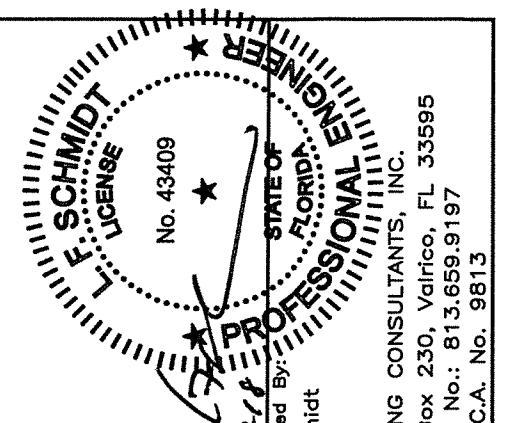
HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	LOCK: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	LEVER: "F" SERIES (F51)
	DEADBOLT: "B" SERIES (B300)



**4**  
**4** **HORIZONTAL CROSS SECTION**  
2x Stud Construction



**3**  
**4** **HORIZONTAL CROSS SECTION**  
2x Stud Construction

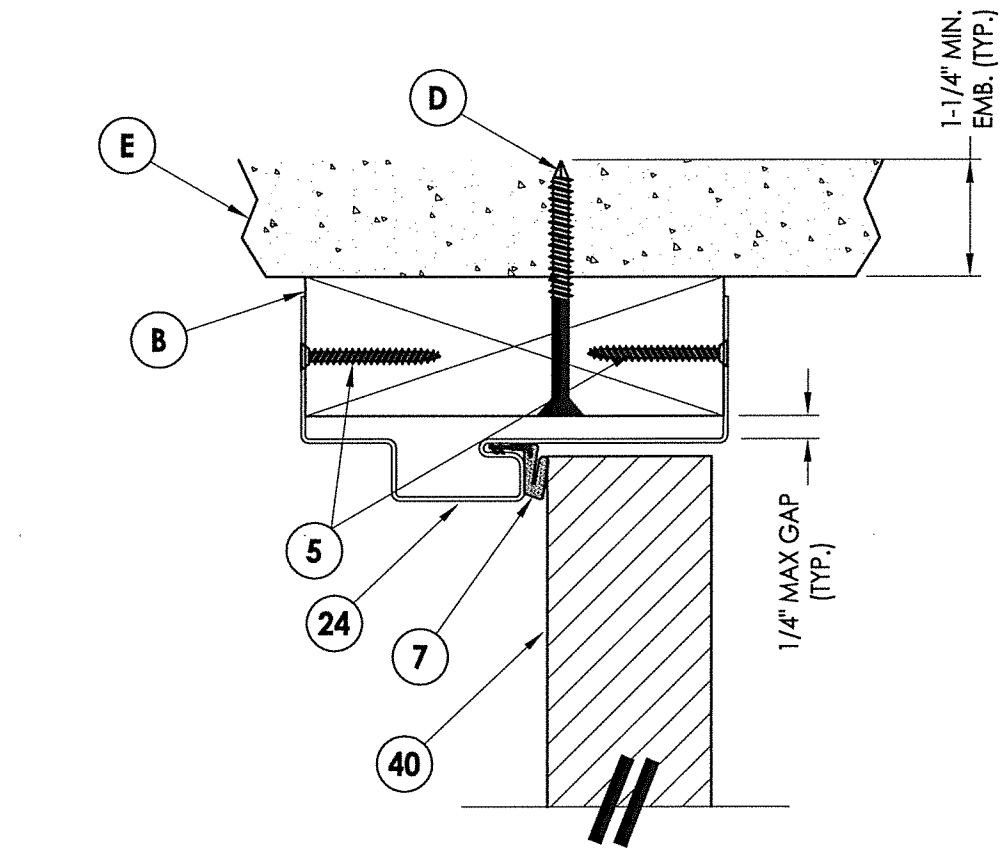


Documents Prepared By:  
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P.O. Box 230, Vairco, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

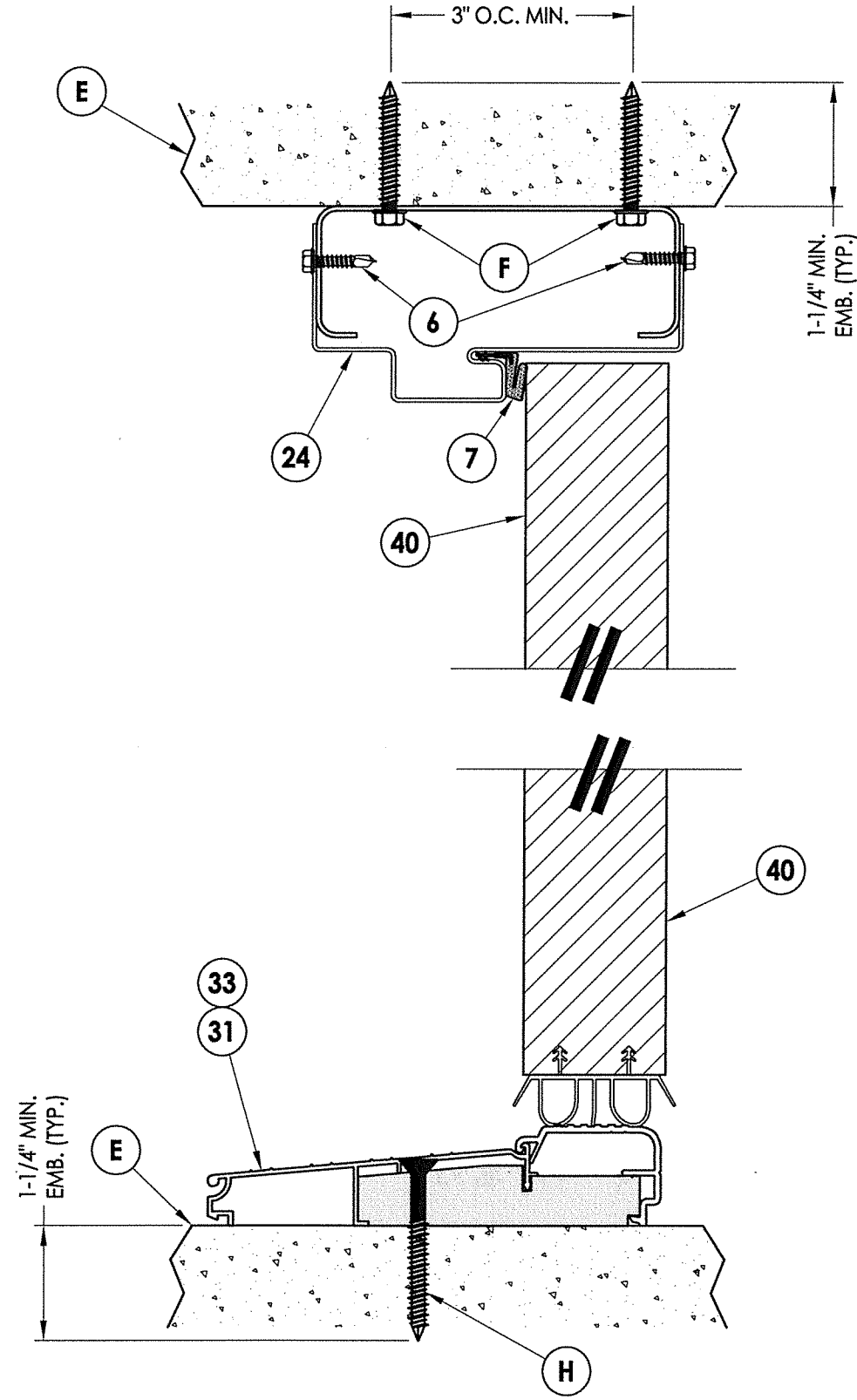
PRODUCT: IDP STEEL FRAME (F-SERIES)  
PART OR ASSEMBLY: HORIZONTAL CROSS SECTION

NO.	DATE	REVISIONS
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

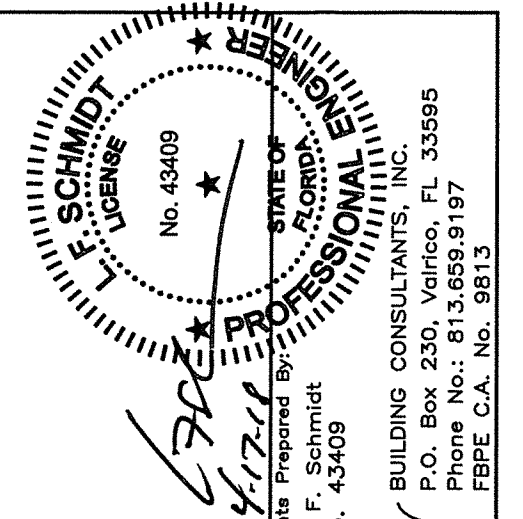
DATE: 4/11/11  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-14512.2  
SHEET 4 OF 7



**1 VERTICAL CROSS SECTION**  
5 Outswing



**2 VERTICAL CROSS SECTION**  
5 Inswing

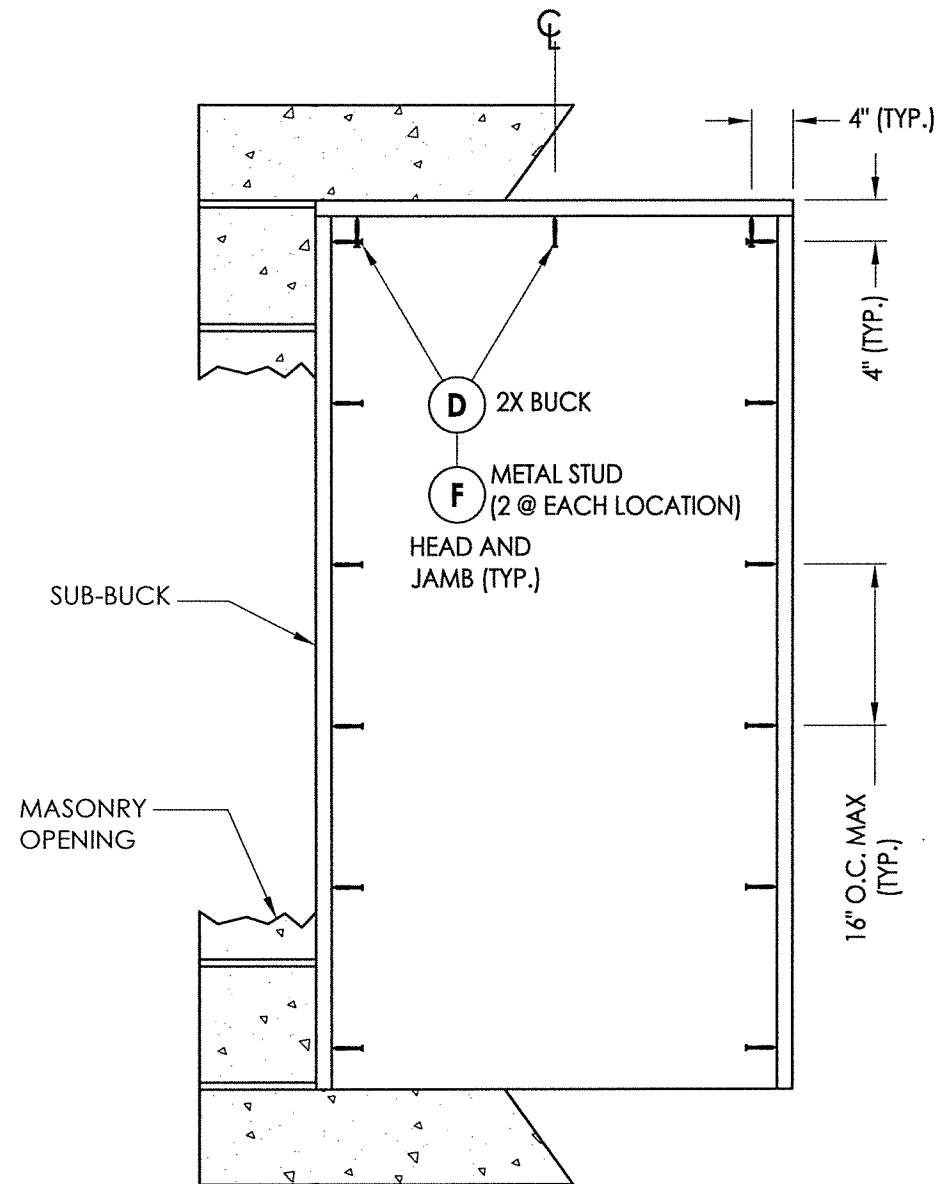


Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409  
*RW*  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

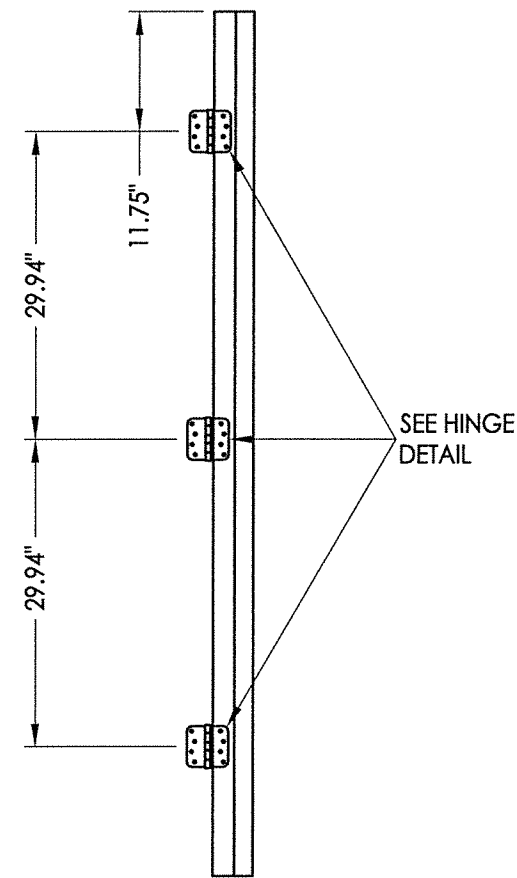
PRODUCT:  
IDP  
STEEL FRAME (F-SERIES)  
PART OR ASSEMBLY:  
VERTICAL CROSS SECTION

NO.	DATE	REVISIONS
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

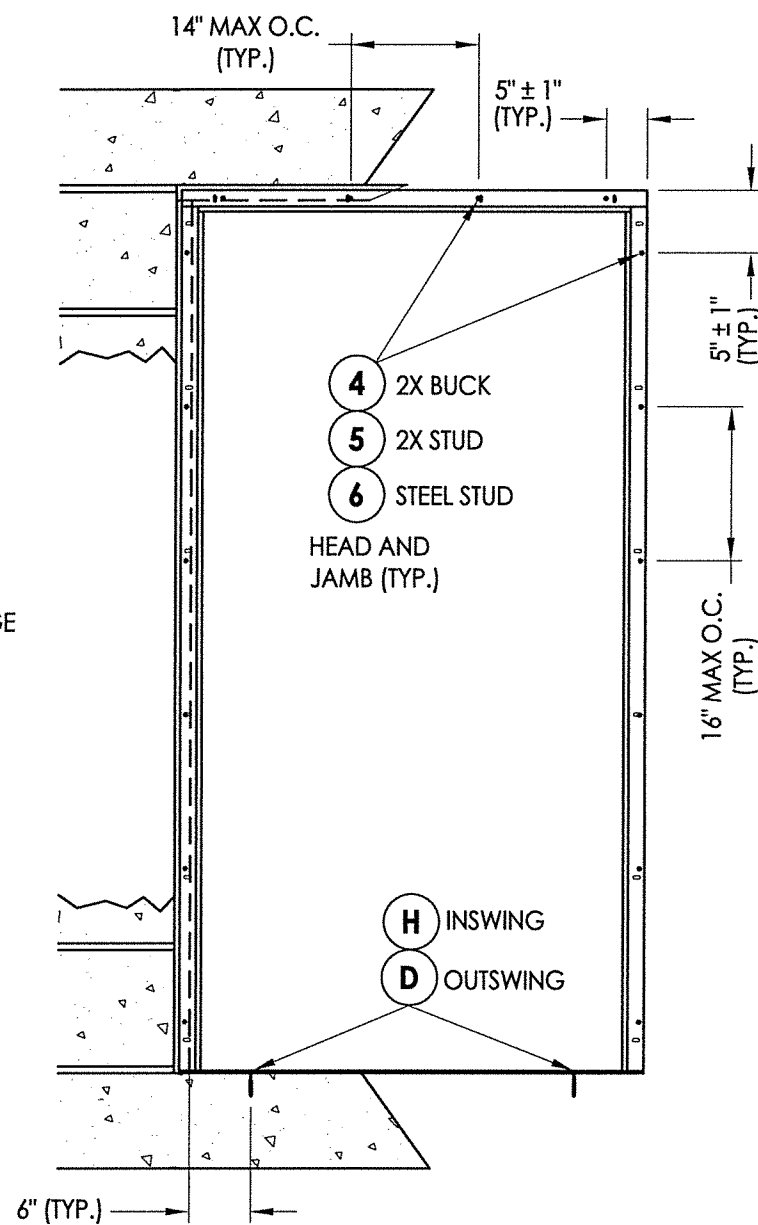
DATE: 4/11/11  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-14512.2  
SHEET 5 OF 7



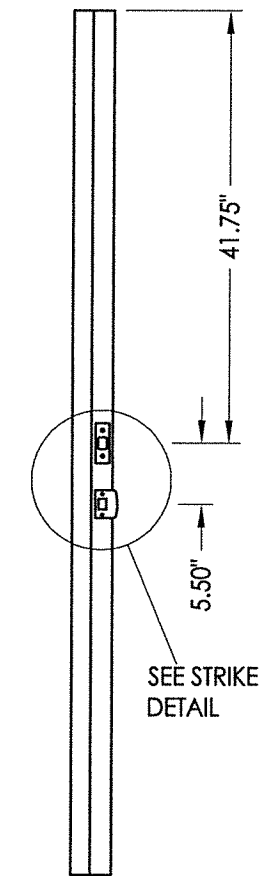
**BUCK ANCHORING**  
Taylor Door



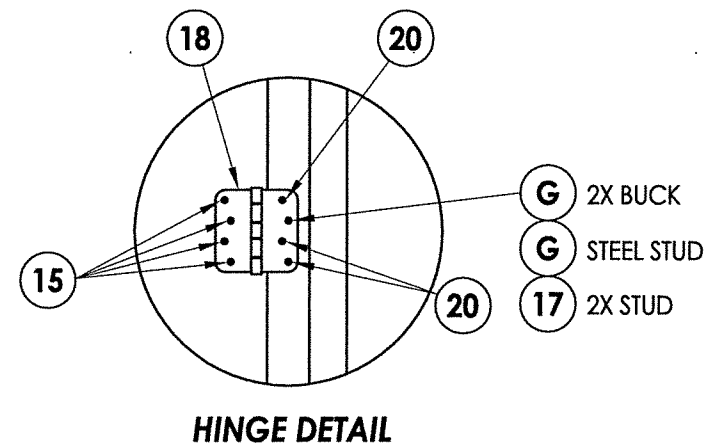
**HINGE JAMB**



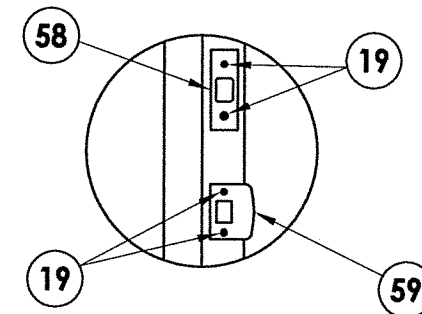
**FRAME ANCHORING**  
Taylor Door



**STRIKE JAMB**



**HINGE DETAIL**



**STRIKE PLATE DETAIL**

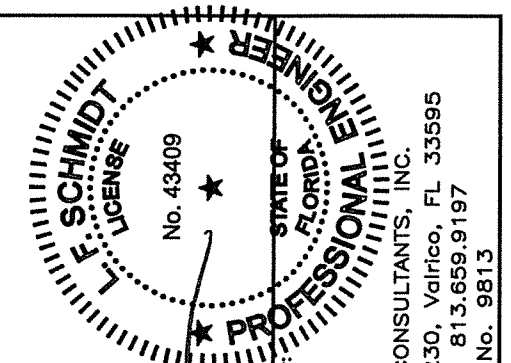
**CONCRETE ANCHOR NOTES:**

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*  
4-17-18

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
	STEEL FRAME (F-SERIES)
PART OR ASSEMBLY:	BUCK AND FRAME ANCHORING

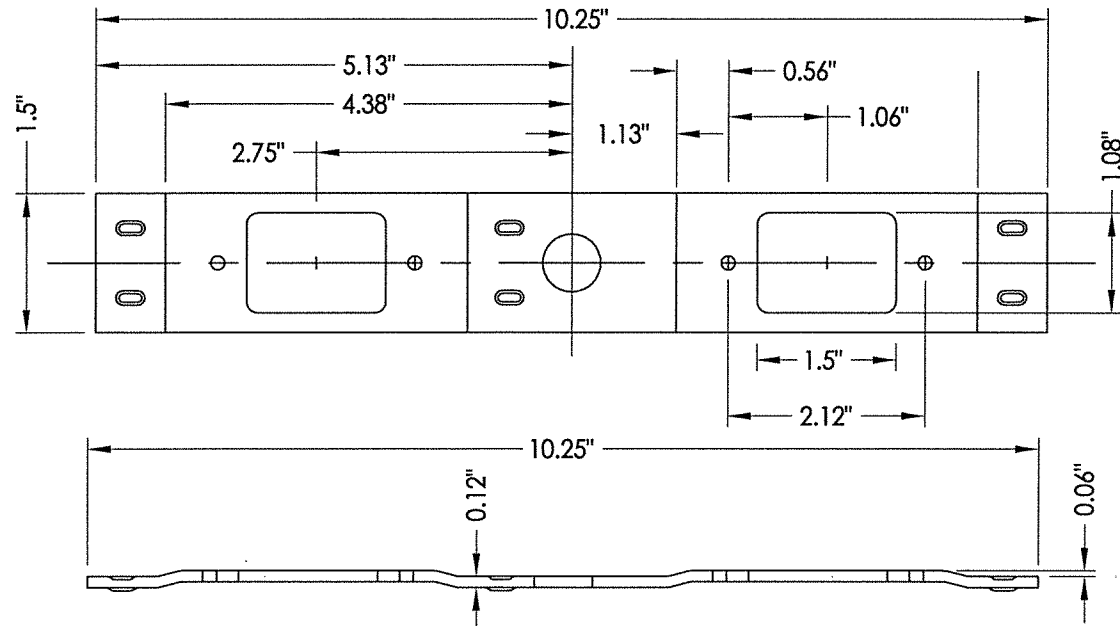
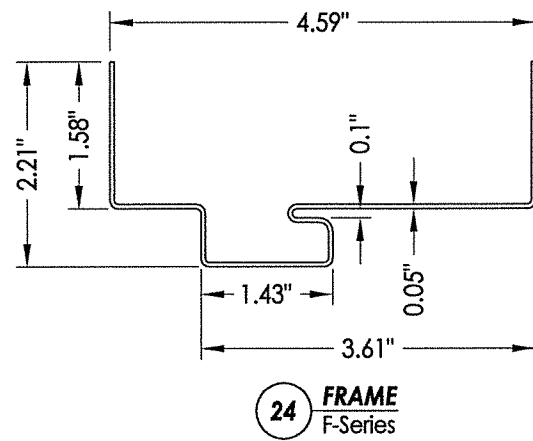
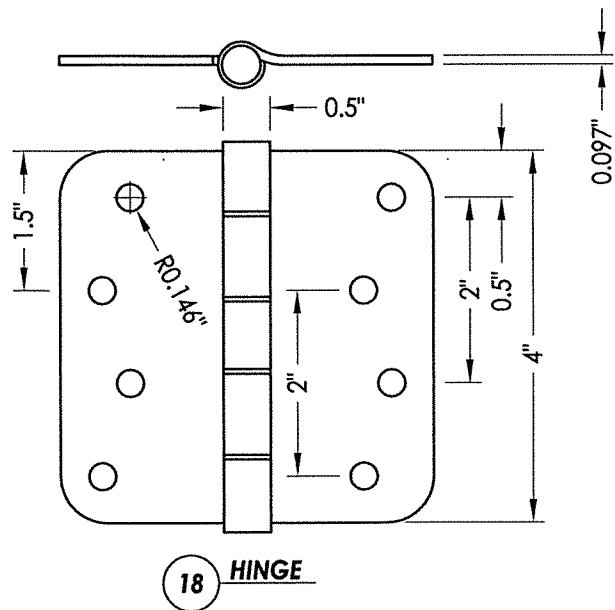
	JK	JK	LFS	LFS	BY
UPDATE TO 6TH ED. (2017) FBC					
UPDATE TO 5TH ED. (2014) FBC					
UPDATE TO 2010 FBC					
REV. THRESHOLD NOTES/ANCHORS					
NO. DATE					

DATE:	4/11/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14512.2
SHEET	6 OF 7

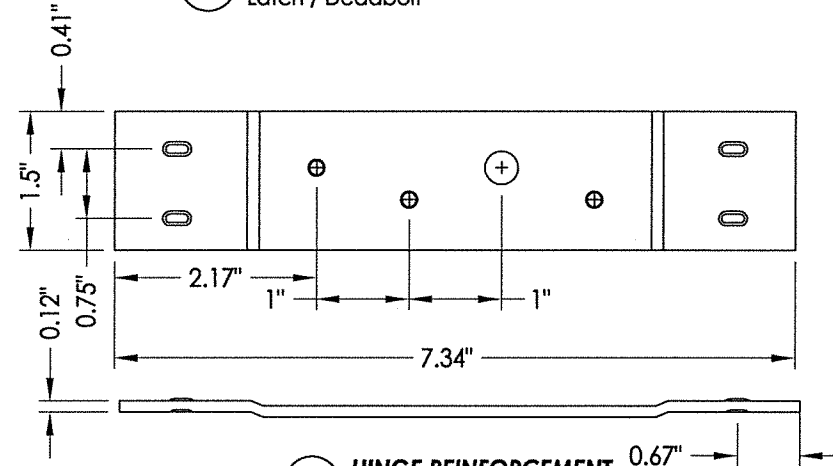
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**BILL OF MATERIALS**

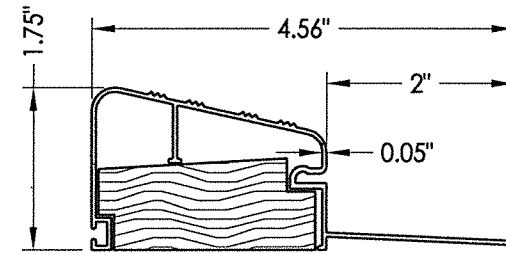
ITEM #	DESCRIPTION	MATERIAL
A	2X STUD FRAMING (SG >= 0.55)	WOOD
B	2X BUCK (SG >= 0.55)	WOOD
C	METAL STUD (SSMA STUD 550S162-54, Fy = 33 ksi, Fu = 45 ksi)	STEEL
D	1/4" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO 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
24	IDP (F-SERIES) FIXED FRAME (18 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	-
58	STRIKE PLATE - DEADBOLT	STEEL
59	" T " STRIKE PLATE - LATCH	STEEL



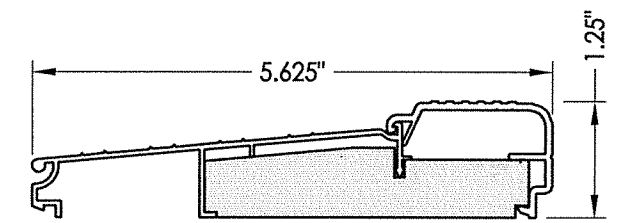
**28 STRIKE REINFORCEMENT**  
Latch / Deadbolt



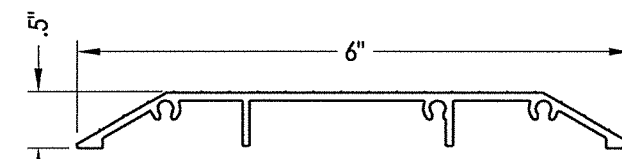
**29 HINGE REINFORCEMENT**



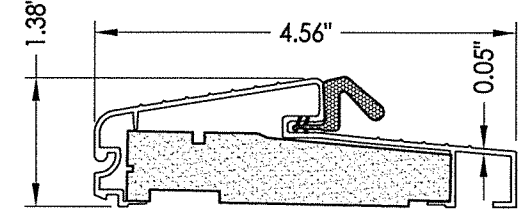
**30 OUTSWING THRESHOLD**  
DLP



**31 INSWING THRESHOLD**  
AFCO A-280



**33 ADA THRESHOLD**  
AFCO A-202



**32 OUTSWING THRESHOLD**  
AFCO A-496

**FLORIDA PROFESSIONAL ENGINEER**  
L. F. SCHMIDT  
LICENSE No. 43409

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

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

PRODUCT:		IDP (F-SERIES)	
STEEL FRAME (F-SERIES)		BILL OF MATERIALS AND COMPONENTS	
CLARIFY FRAME ANCHORING	LFS	REV. THRESHOLD NOTES/ANCHORS	BY
UPDATE TO 6TH ED. (2017) FBC	JK		
UPDATE TO 5TH ED. (2014) FBC	JK		
UPDATE TO 2010 FBC	LFS		
REV. THRESHOLD NOTES/ANCHORS	LFS		
NO.	DATE		
REVISIONS			
DATE:	4/11/11		
SCALE:	N.T.S.		
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	FL-14512.2		
SHEET	7	OF	7