



Glazed Steel Door

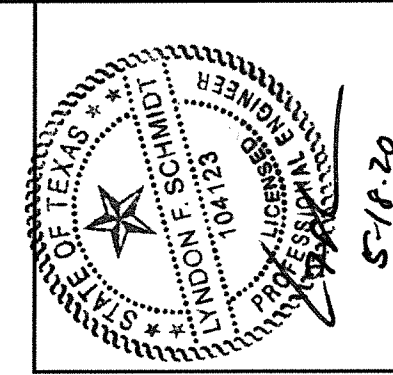
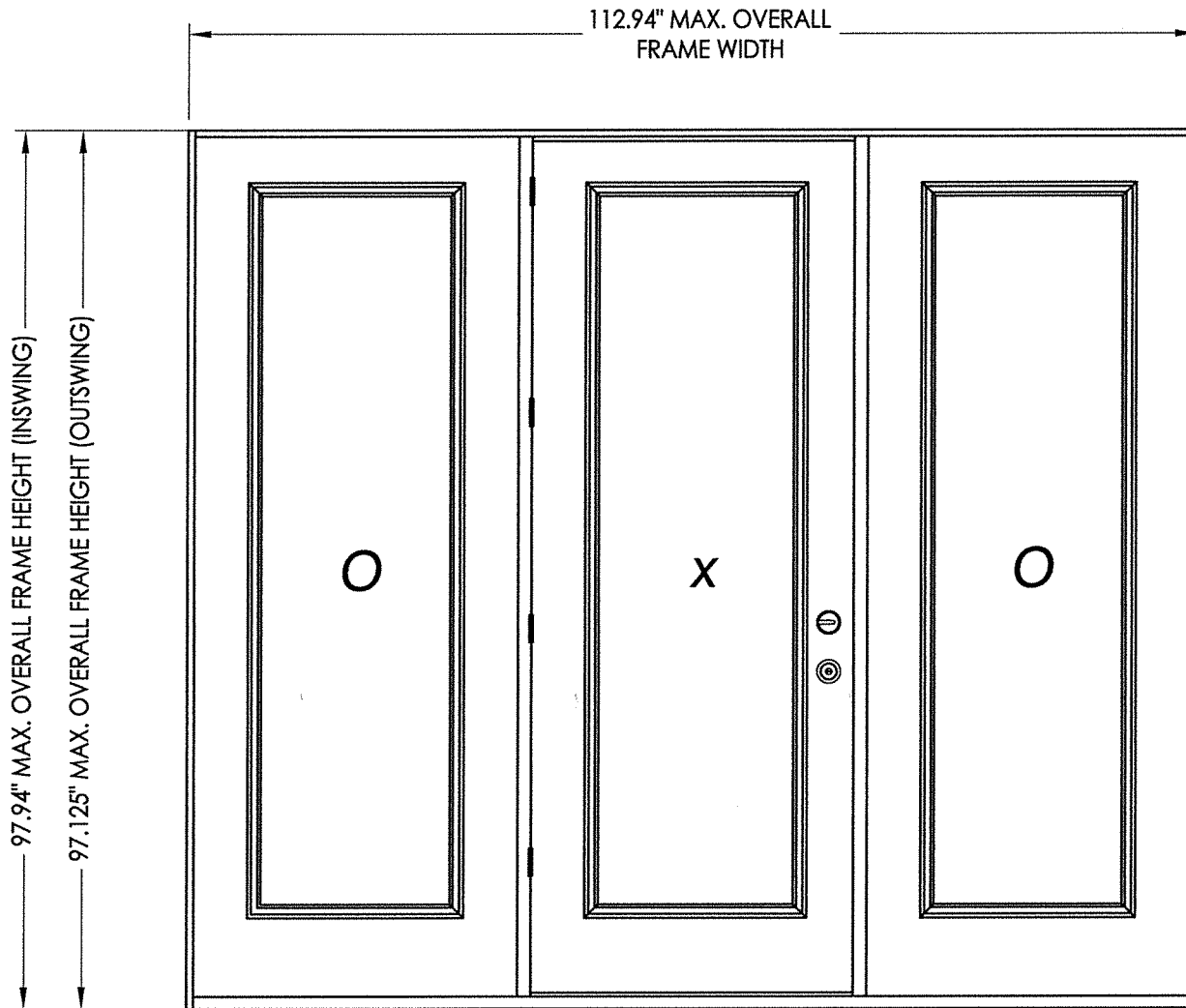
"NON-IMPACT"
IN SWING / OUT SWING

EVALUATED FOR USE IN THE STATE OF TEXAS

The Glazed Steel Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

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SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details (lip lite insert glazing)
3	Slidelite panel details (lip lite insert glazing)
4	Horizontal cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Frame anchoring



Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS
3	12/19/19	LFS	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	9/05/18	LFS	ADD ADDITIONAL THRESHOLDS
1	1/06/14	LFS	ADDED ARTICULATING SILL

DATE: 8/08/12

SCALE: N.T.S.

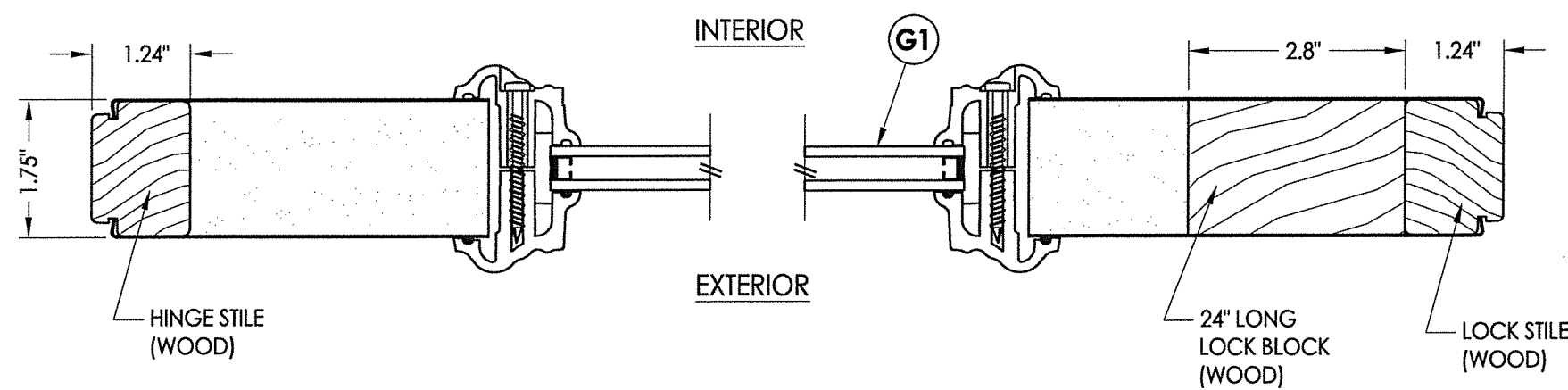
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CHK. BY: LFS

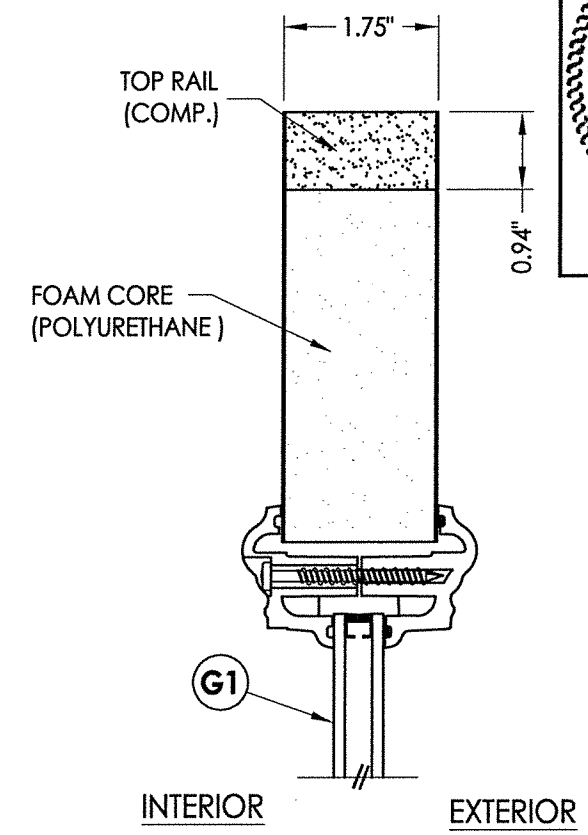
DRAWING NO.: TX-4211

SHEET 1 OF 7

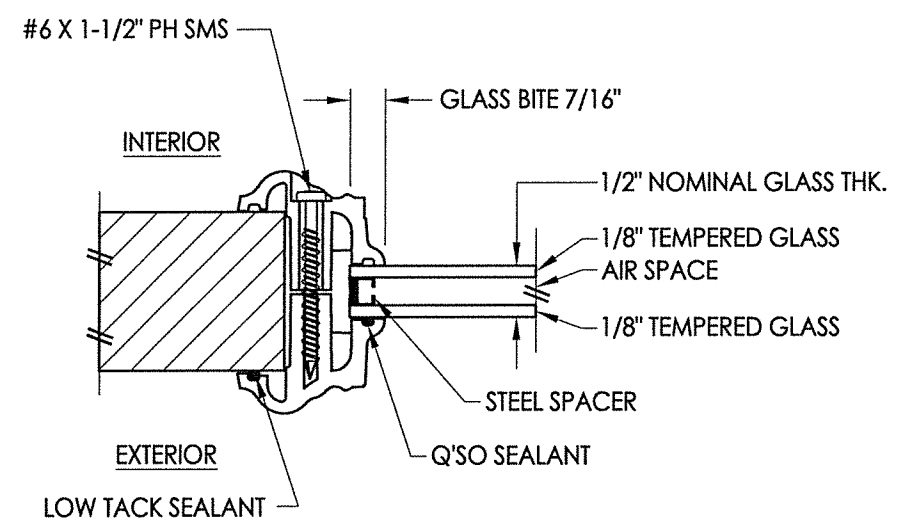
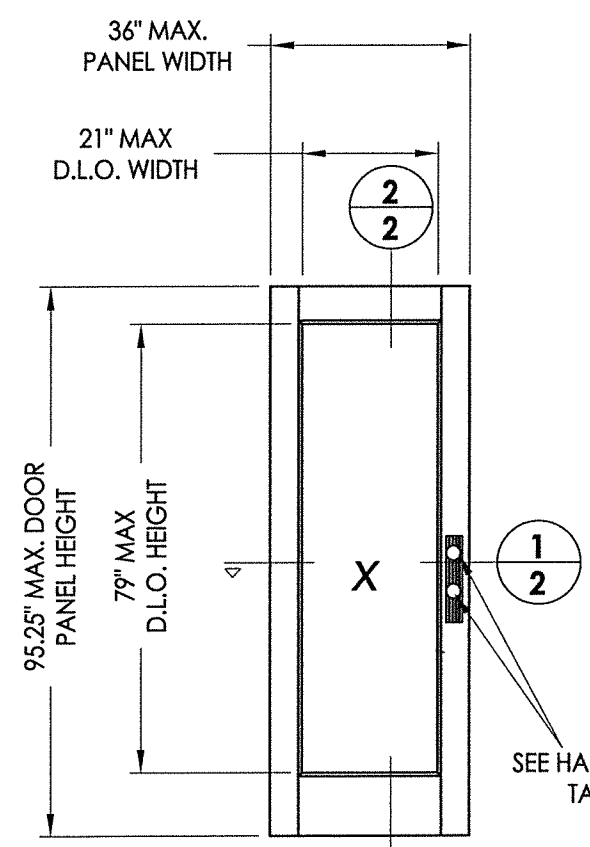
CONFIG.	MODEL	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
OXO	IN SWING	+30.0	-35.0
	OUT SWING	+25.0	-25.0



1 HORIZONTAL CROSS SECTION



2 VERTICAL CROSS SECTION



G1 GLAZING DETAIL
Lip Life Insert Glazing

THERMA-TRU
Insert glazed
(steel)

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	LATCH: SIGNATURE SERIES (991) DEADBOLT: SIGNATURE SERIES (980/985)



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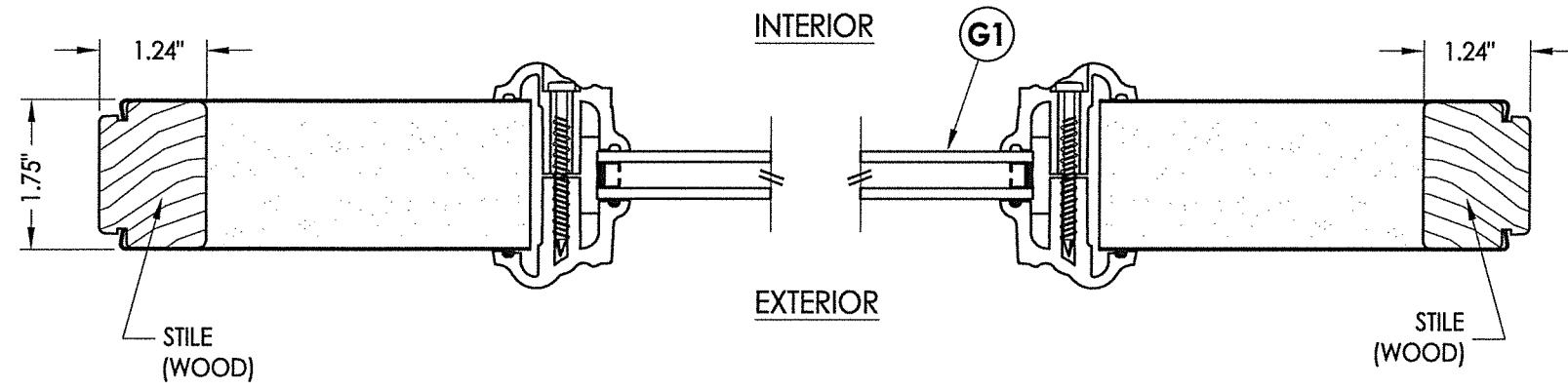
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

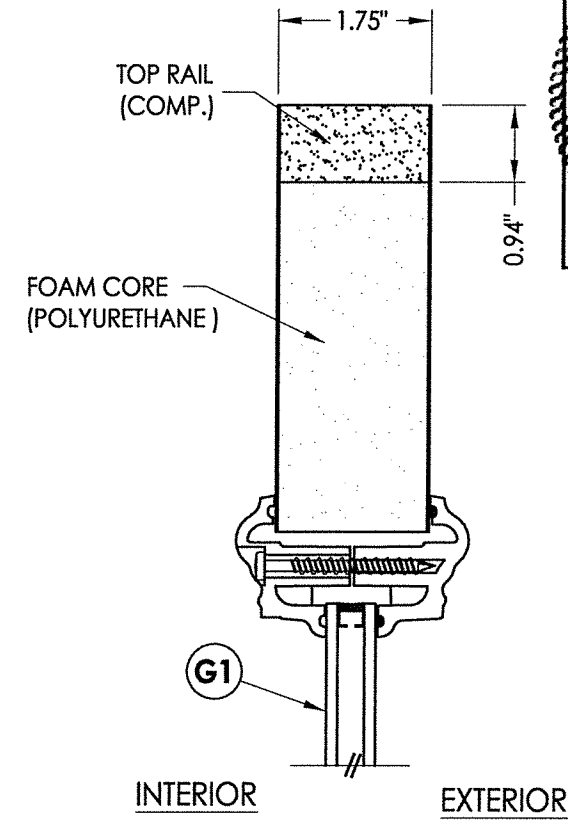
PART OR ASSEMBLY: DOOR PANEL DETAILS
(LIP LIFE INSERT GLAZING)

NO.	DATE	REVISIONS	BY
3	12/19/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE	LFS
2	9/05/18	ADD ADDITIONAL THRESHOLDS	LFS
1	1/06/14	ADDED ARTICULATING SILL	LFS

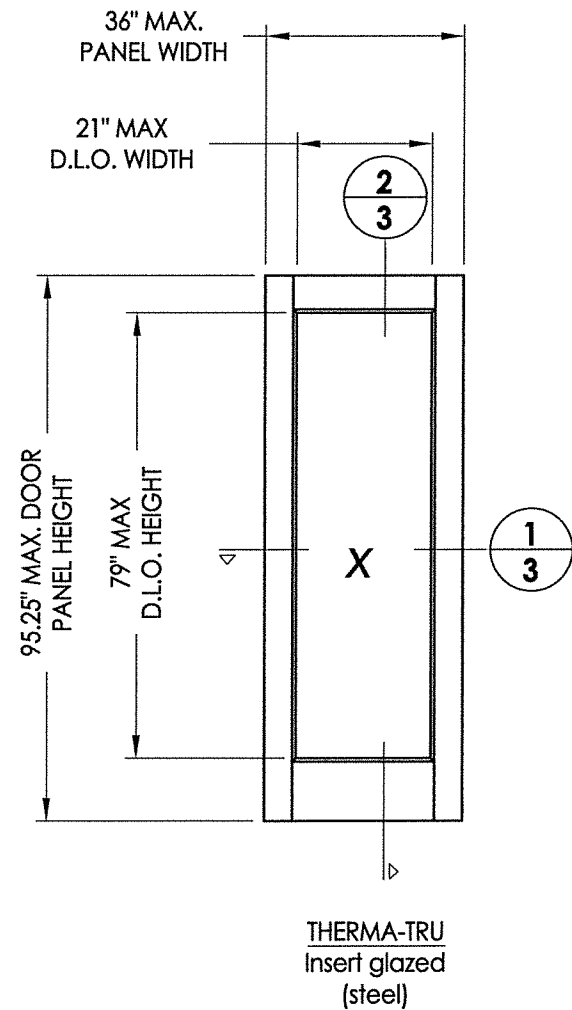
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4211
SHEET 2 OF 7



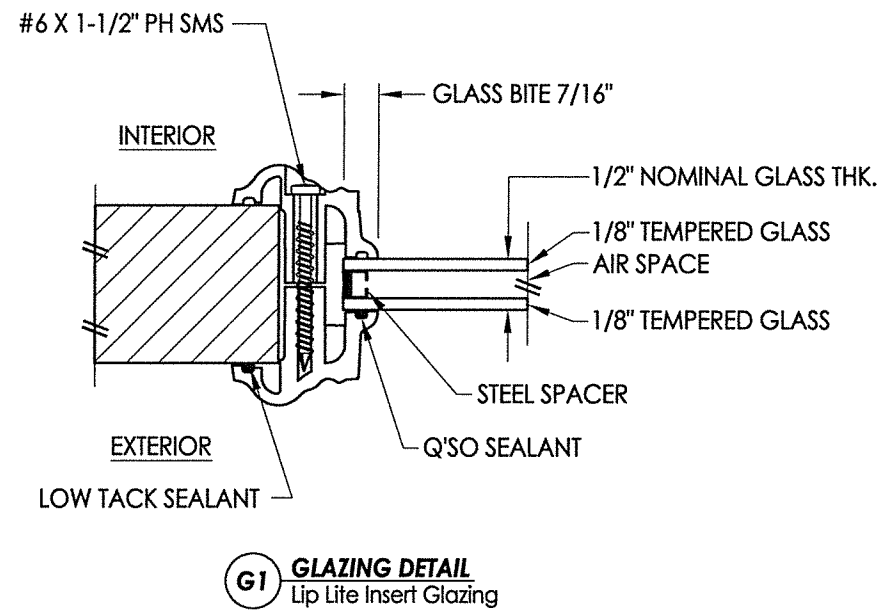
1
3 HORIZONTAL CROSS SECTION



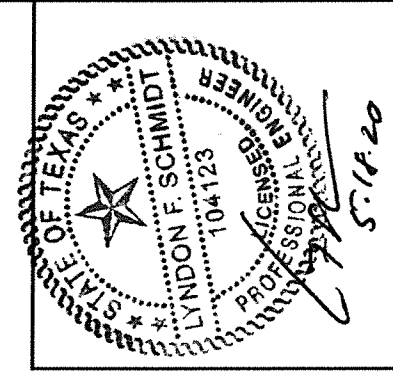
2
3 VERTICAL CROSS SECTION



THERMA-TRU
Insert glazed
(steel)



G1 GLAZING DETAIL
Lip Lite Insert Glazing



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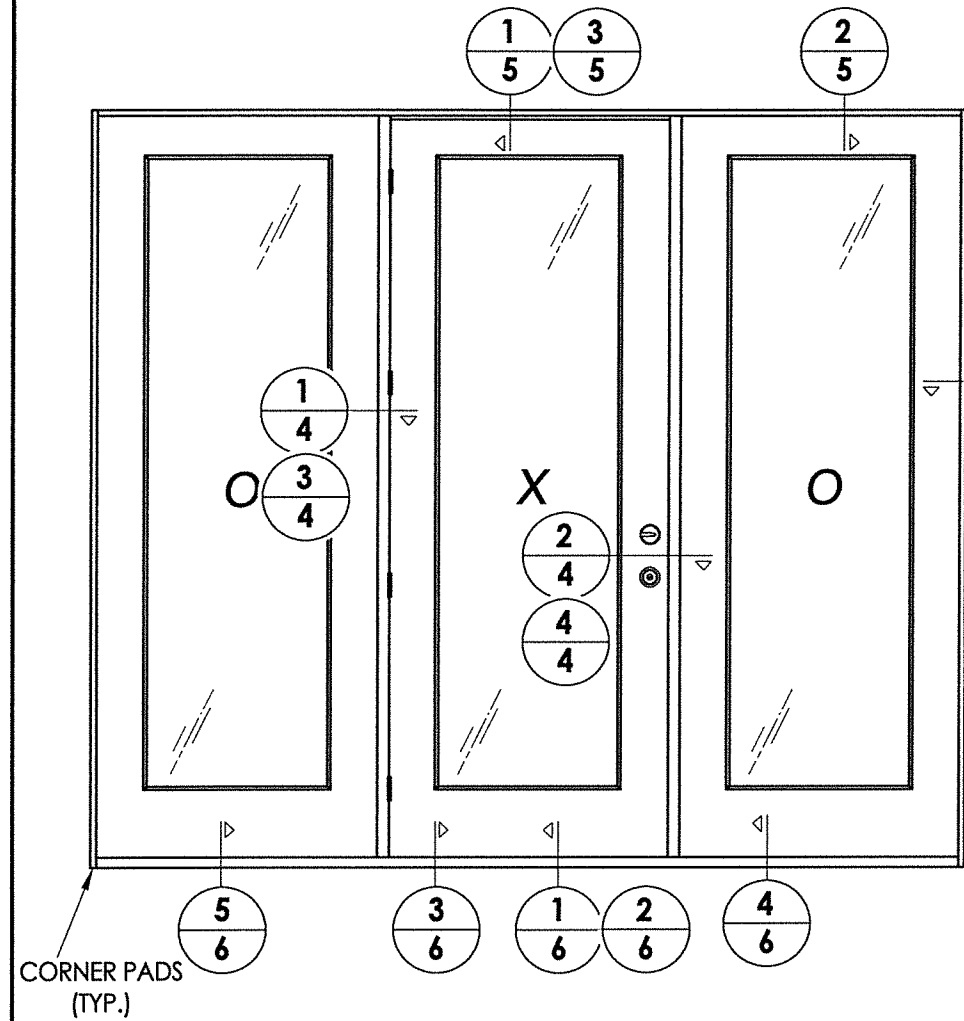
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11652

PRODUCT: ENDURA
PART OR ASSEMBLY: SIDELITE PANEL DETAILS (LIP LITE INSERT GLAZING)

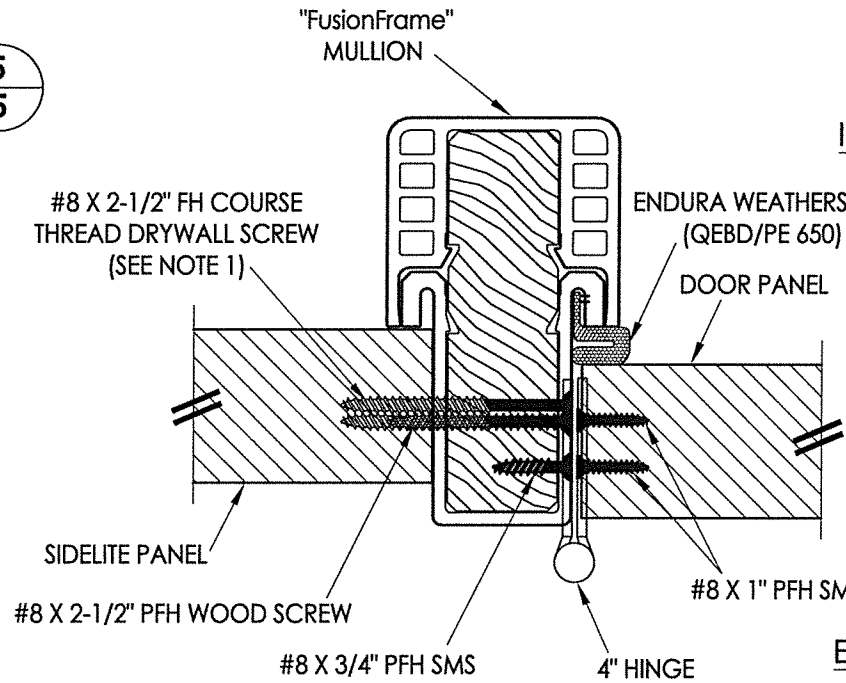
NO.	DATE	REVISIONS
3	12/19/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	9/05/18	ADD ADDITIONAL THRESHOLDS
1	1/06/14	ADDED ARTICULATING SILL
		BY

DATE: 8/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4211
SHEET 3 OF 7

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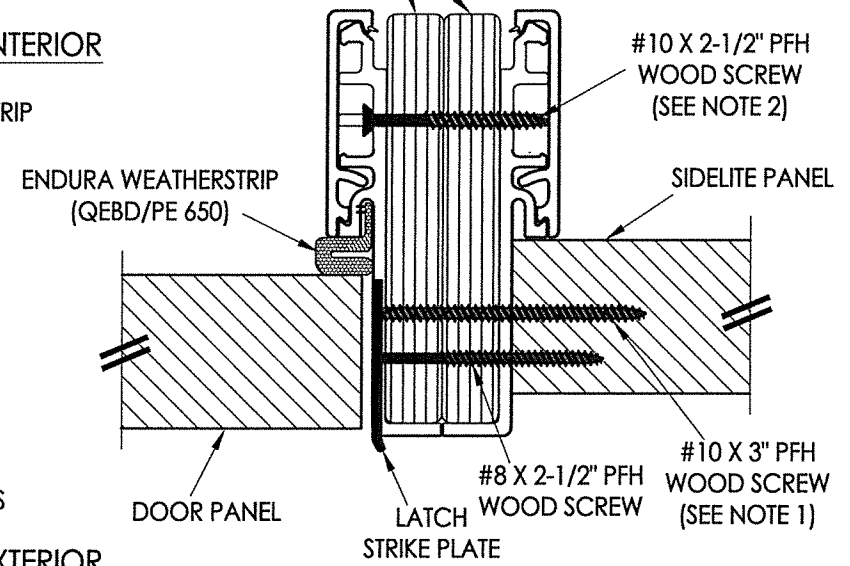
4
5



3 HORIZONTAL CROSS SECTION
4 Outswing shown - Inswing also approved

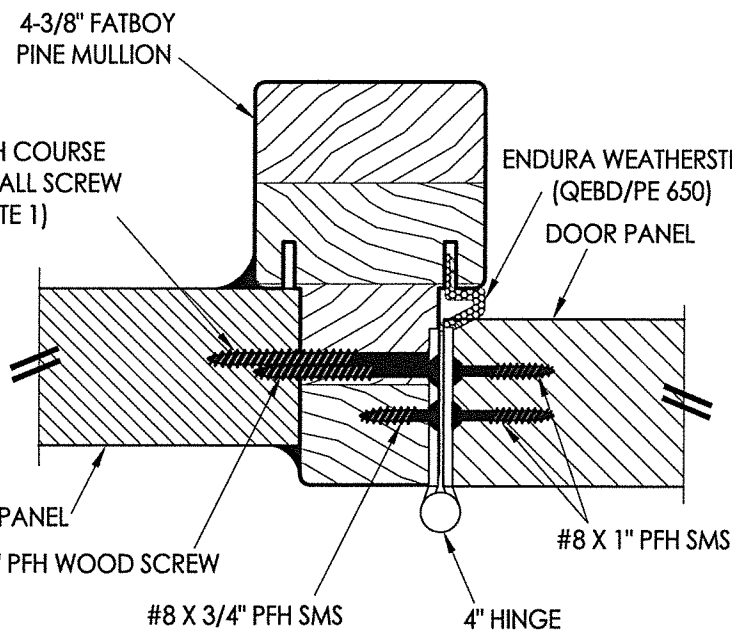
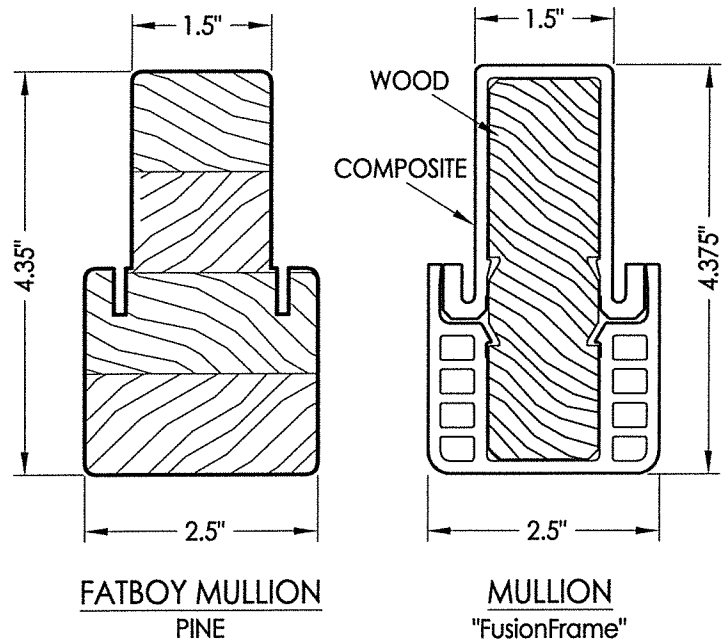
BACK-TO-BACK JAMBS:
"FusionFrame" (1 OR 2-PIECE)

INTERIOR



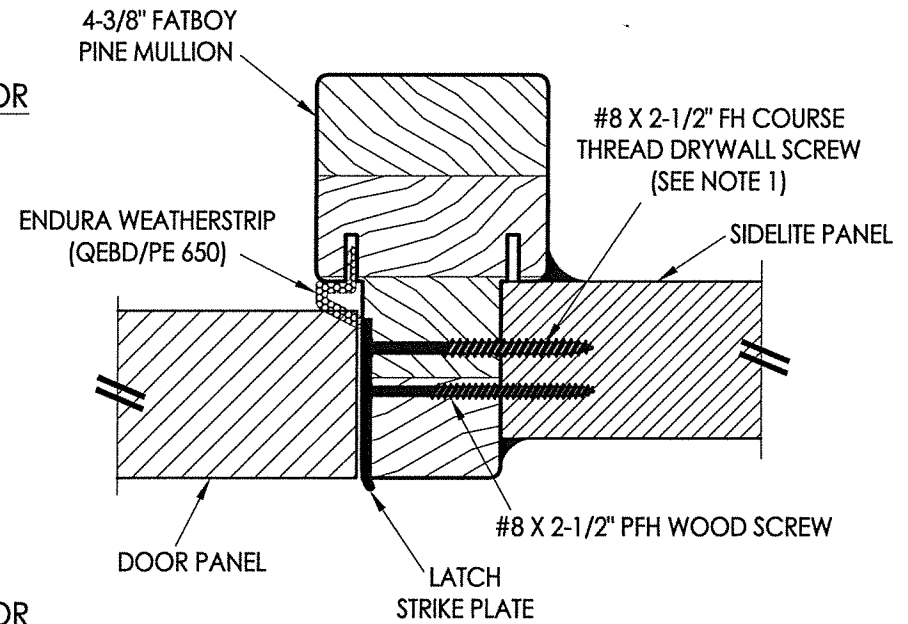
EXTERIOR

4 HORIZONTAL CROSS SECTION
4 Outswing shown - Inswing also approved



1 HORIZONTAL CROSS SECTION
4 Outswing shown - Inswing also approved

INTERIOR



EXTERIOR

2 HORIZONTAL CROSS SECTION
4 Outswing shown - Inswing also approved

- NOTES:
1. Spacing for sidelite screws: 6.5", 35.5", 57.25" and 85" from head to sill (4 total).
2. Spacing for mullion screws: 6" from each end plus 3 more equally spaced (5 total).



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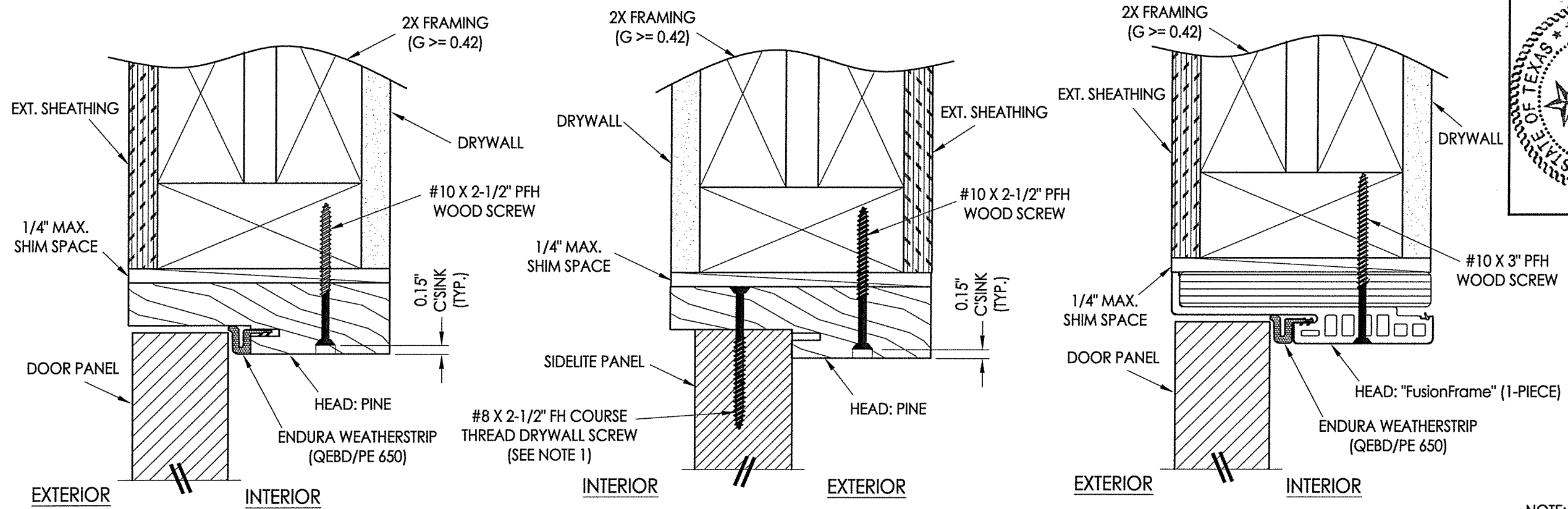
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PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS

NO.	DATE	BY
3	12/19/19	LFS
2	9/05/18	LFS
1	1/06/14	LFS

DATE:	8/08/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4211
SHEET	4 OF 7

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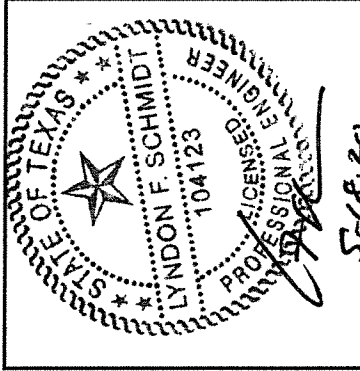


1 VERTICAL CROSS SECTION
5 Outswing shown - inswing also approved

2 VERTICAL CROSS SECTION
5 Inswing shown - Outswing also approved

3 VERTICAL CROSS SECTION
5 Outswing shown - inswing also approved

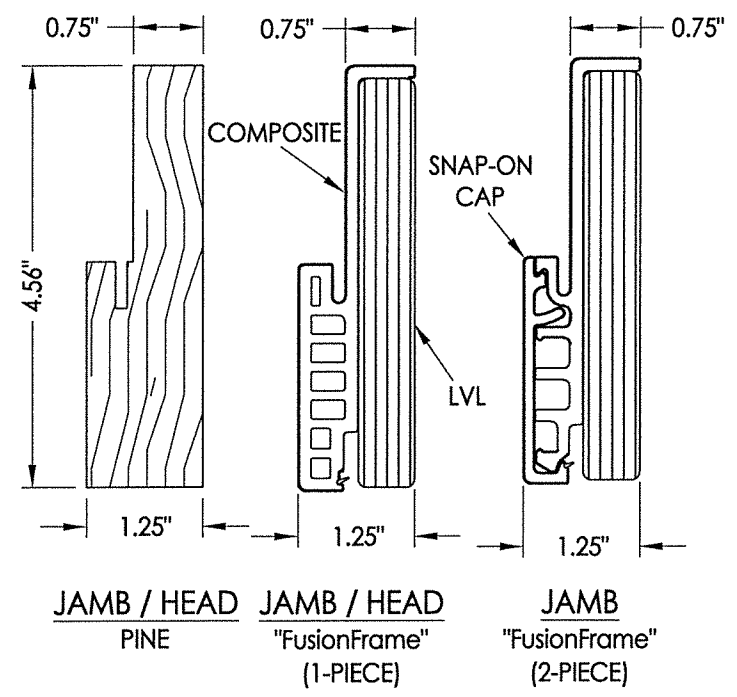
NOTE:
 1. Spacing for sidelite screws:
 6" from each end (2 total).



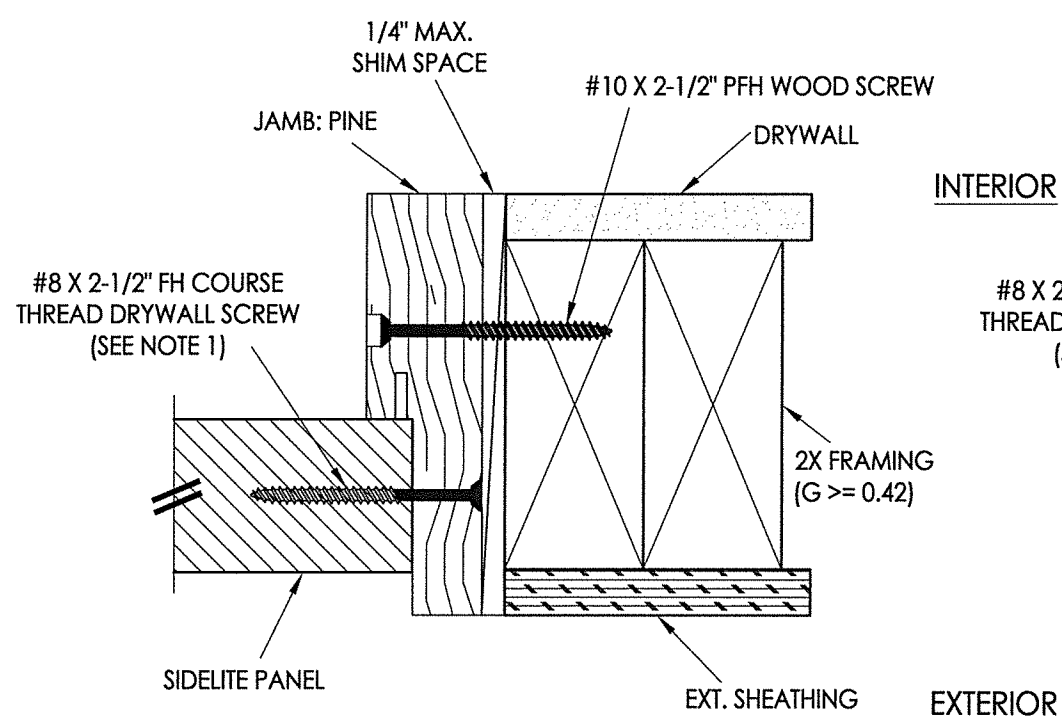
Documents Prepared By: Lyndon F. Schmidt, P.E.
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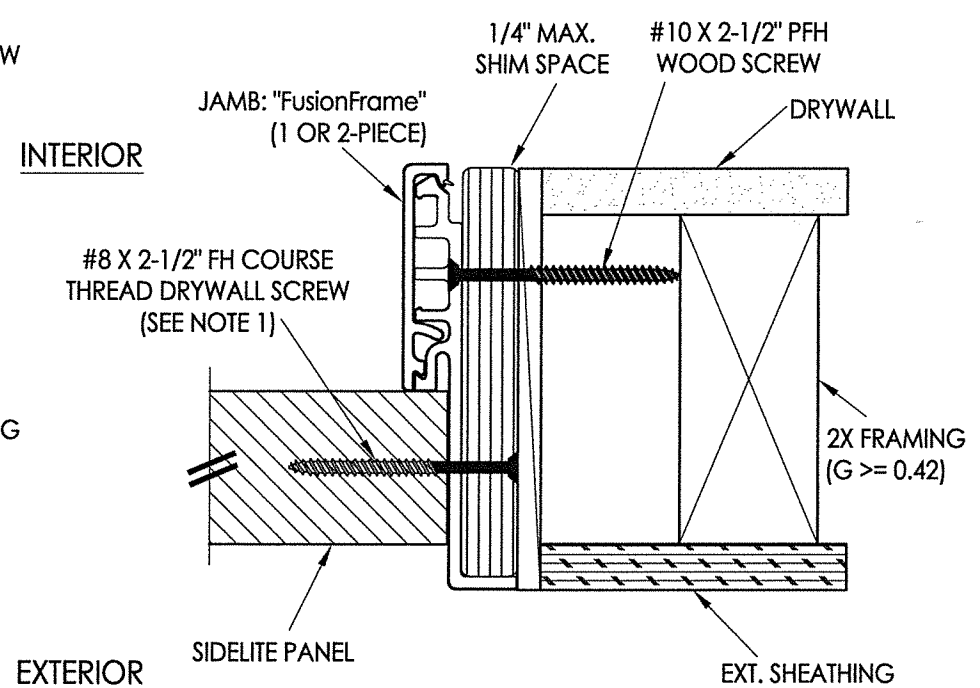
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JAMB / HEAD PINE
 JAMB / HEAD "FusionFrame" (1-PIECE)
 JAMB "FusionFrame" (2-PIECE)



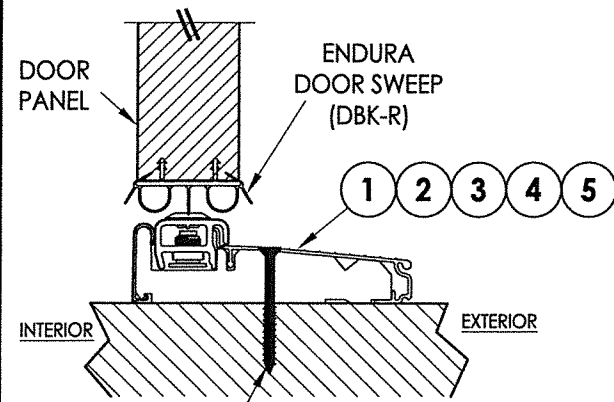
4 HORIZONTAL CROSS SECTION
5 Outswing shown - Inswing also approved



5 HORIZONTAL CROSS SECTION
5 Outswing shown - Inswing also approved

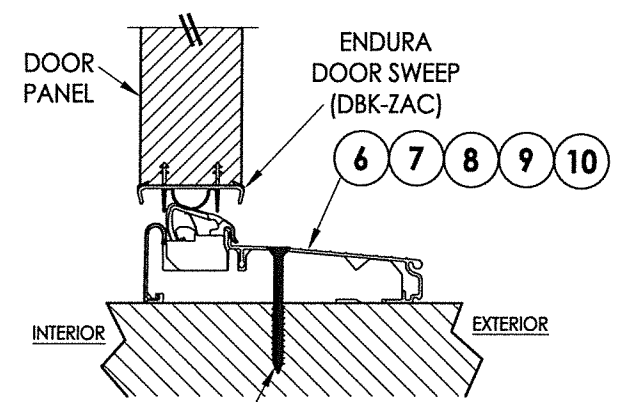
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PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS	
NO.	DATE	BY
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2	9/05/18	ADD ADDITIONAL THRESHOLDS
1	1/06/14	ADDED ARTICULATING SILL
REVISIONS		
DATE:	8/08/12	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4211	
SHEET	5 OF 7	

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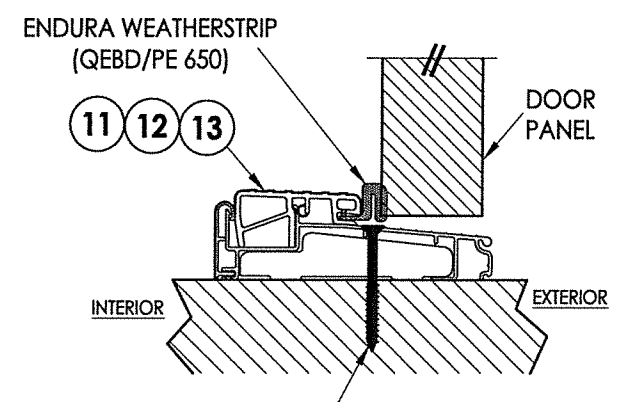
#10 X 2.5" PFH WOOD SCREW OR 1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

1 VERTICAL CROSS SECTION
6 Inswing Adjustable Threshold



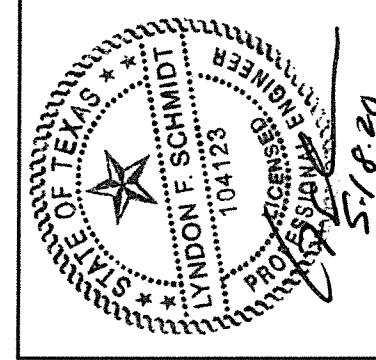
#10 X 2.5" PFH WOOD SCREW OR 1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

2 VERTICAL CROSS SECTION
6 Inswing Articulating Threshold

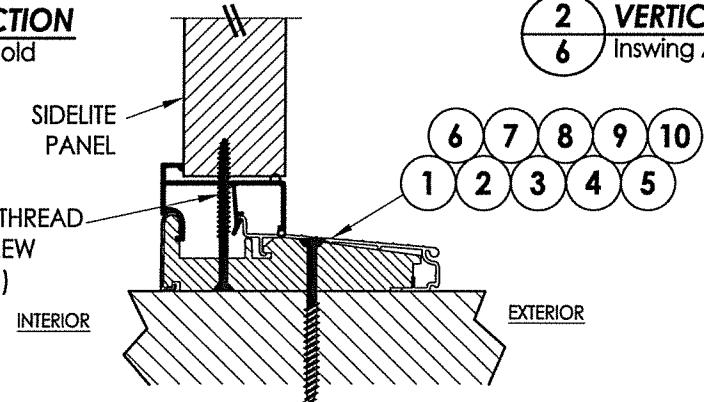


#10 X 2.5" PFH WOOD SCREW OR 1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

3 VERTICAL CROSS SECTION
6 Outswing Bump Threshold



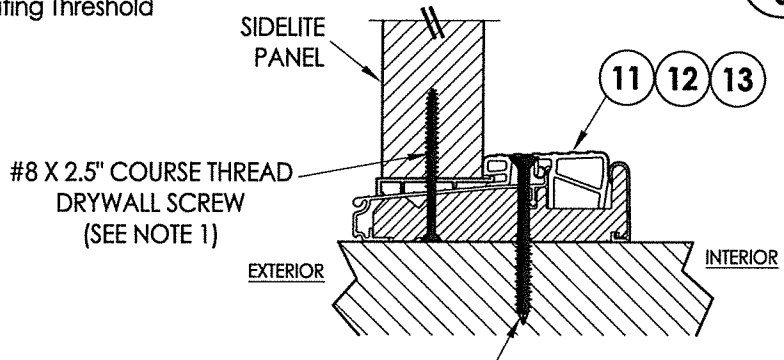
NOTE:
1. Spacing for sidelite screws: 6" from each end (2 total).



#8 X 2.5" COURSE THREAD DRYWALL SCREW (SEE NOTE 1)

#10 X 2.5" PFH WOOD SCREW OR 1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

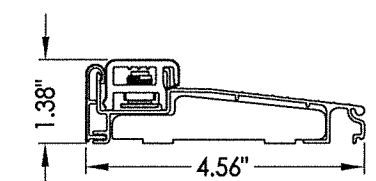
4 VERTICAL CROSS SECTION
6 Inswing configuration



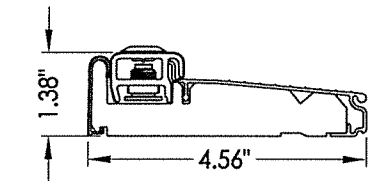
#8 X 2.5" COURSE THREAD DRYWALL SCREW (SEE NOTE 1)

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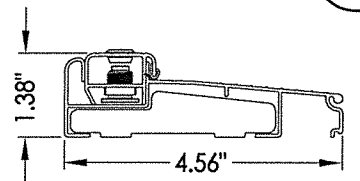
5 VERTICAL CROSS SECTION
6 Outswing configuration



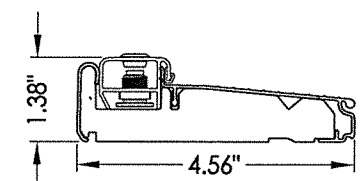
1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



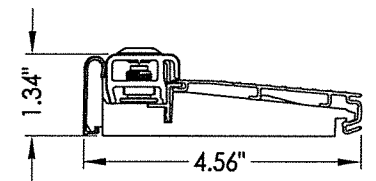
2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



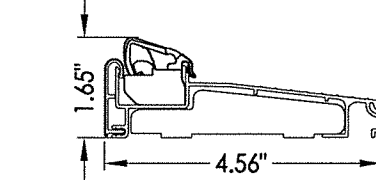
3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565



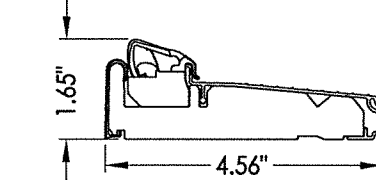
4 INSWING ADJUSTABLE THRESHOLD
ZAIAA4565FN



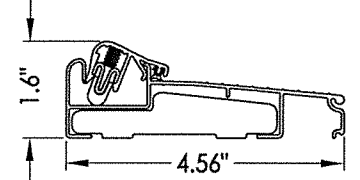
5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS



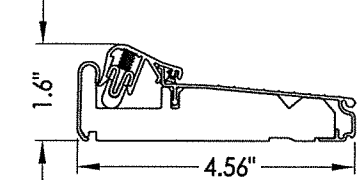
6 INSWING ARTICULATING THRESHOLD
ZACL4565



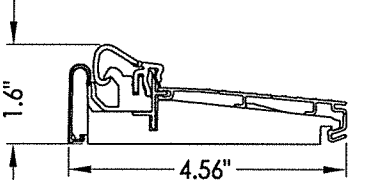
7 INSWING ARTICULATING THRESHOLD
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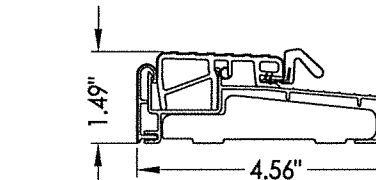
8 INSWING ARTICULATING THRESHOLD
ZACLA4565



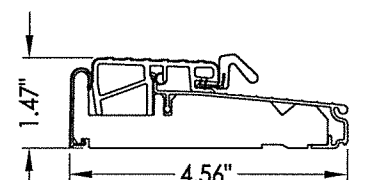
9 INSWING ARTICULATING THRESHOLD
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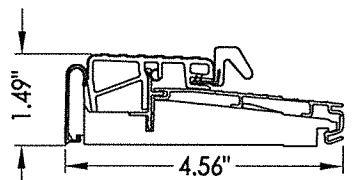
10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS



11 OUTSWING THRESHOLD
ZOBL4565



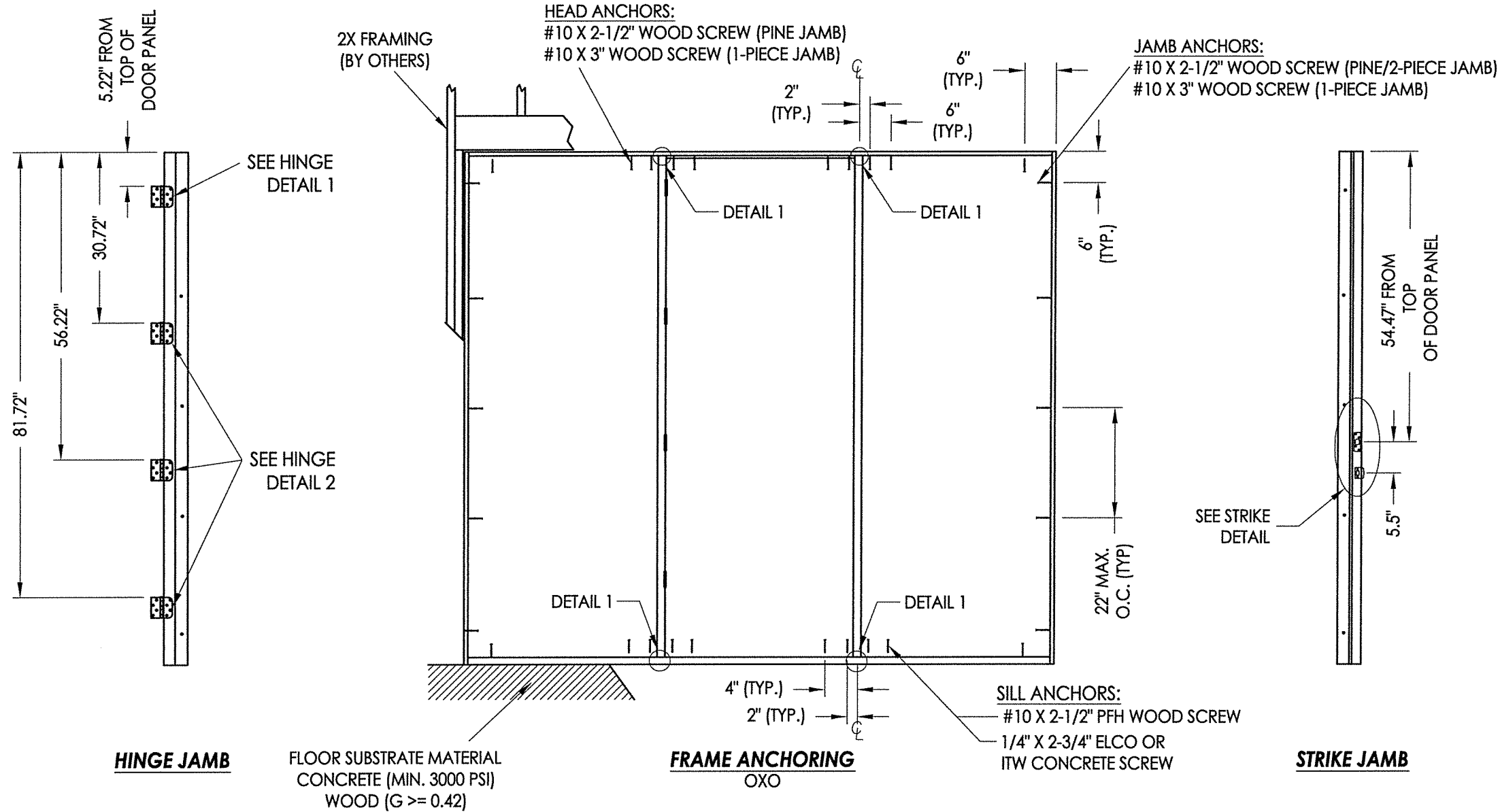
12 OUTSWING THRESHOLD
ZOB4565FN



13 OUTSWING THRESHOLD
ZOB4565RDS

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PRODUCT: ENDURA		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
3	12/19/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE	LFS
2	9/05/18	ADD ADDITIONAL THRESHOLDS	LFS
1	1/06/14	ADDED ARTICULATING SILL	LFS
	NO. DATE		BY
REVISIONS			
DATE: 8/08/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4211			
SHEET 6 OF 7			

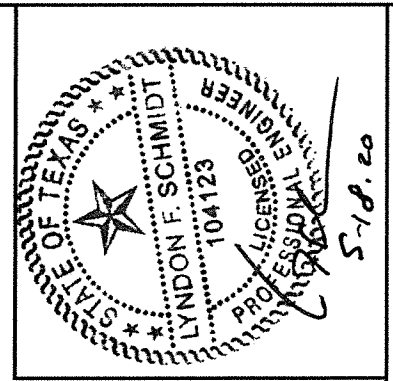
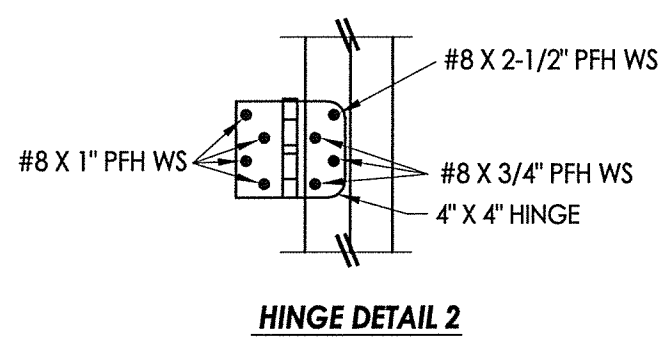
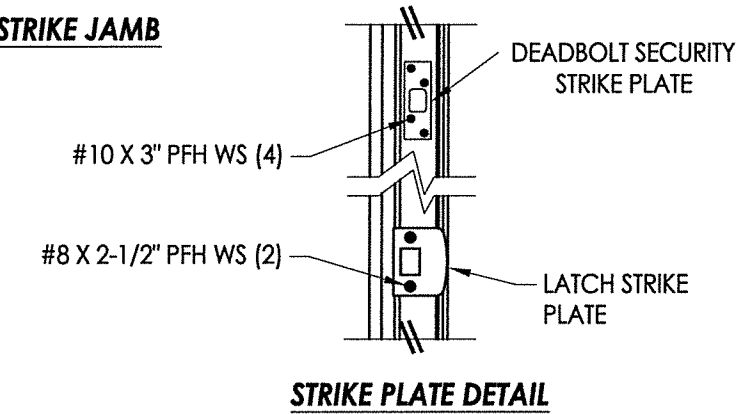
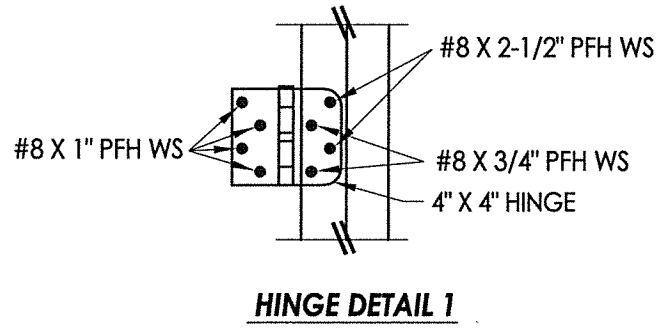
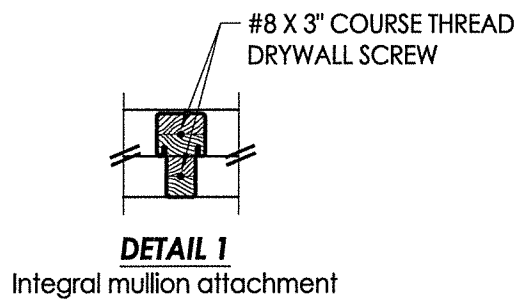
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FLOOR SUBSTRATE MATERIAL
 CONCRETE (MIN. 3000 PSI)
 WOOD (G >= 0.42)

- JAMB NOTES:**
 THE PINE OR "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB.
 THE FusionFrame" 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.
- INTEGRAL MULLION NOTES:**
 THE FATBOY PINE MULLION, "FusionFrame" MULLION, OR THE "FusionFrame" BACK-TO-BACK JAMB (1-PIECE OR 2-PIECE) MAY ALL BE USED AS THE INTEGRAL MULLION.
- CONCRETE ANCHOR NOTES:**
- 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.
 - Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



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 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	12/19/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	9/05/18	ADD ADDITIONAL THRESHOLDS
1	1/06/14	ADDED ARTICULATING SILL

DATE: 8/08/12

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CHK. BY: LFS

DRAWING NO.: TX-4211

SHEET 7 OF 7