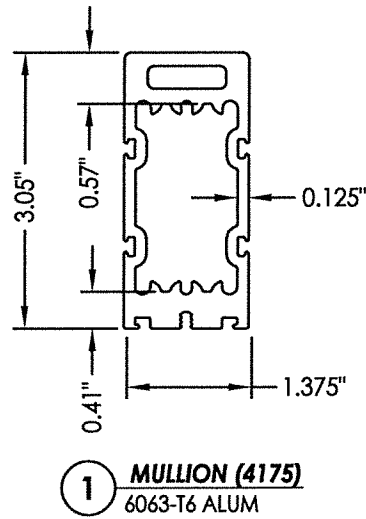
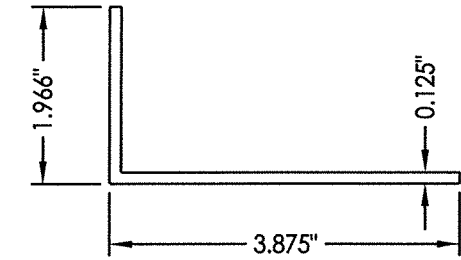
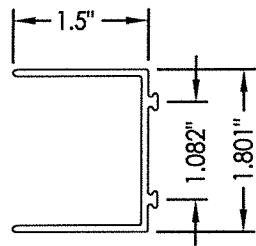


- Notes:
1. Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchoring specifications.
 2. Sheet metal screws (self-drilling) shall have a minimum of 3 threads protrude completely through the mullion frame. Maintain a min. 1/2" edge distance.

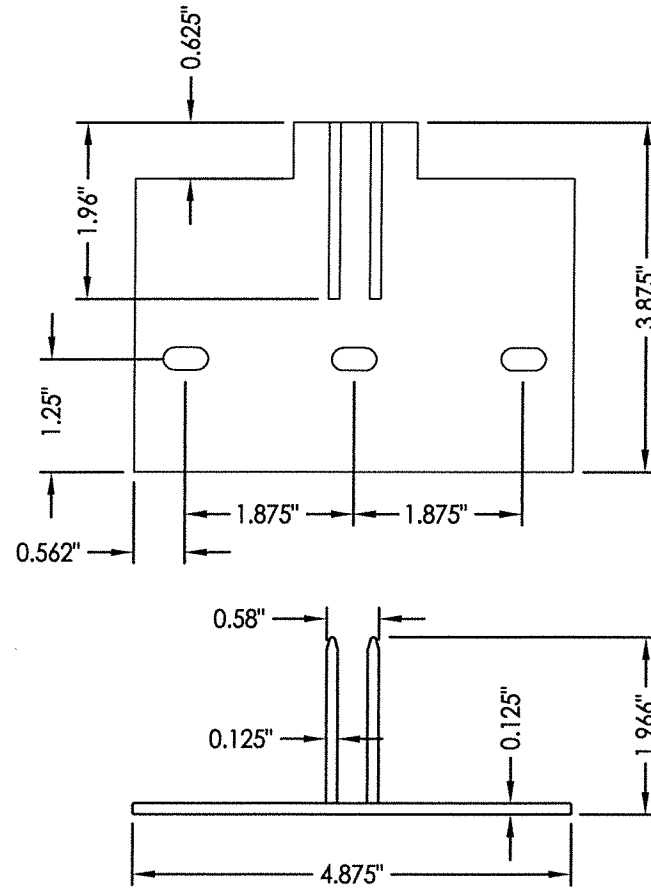


1 MULLION (4175)
6063-T6 ALUM

7 MULLION-TO-MULLION CLIP (3314)
6063-T6 ALUM (1.105" wide)

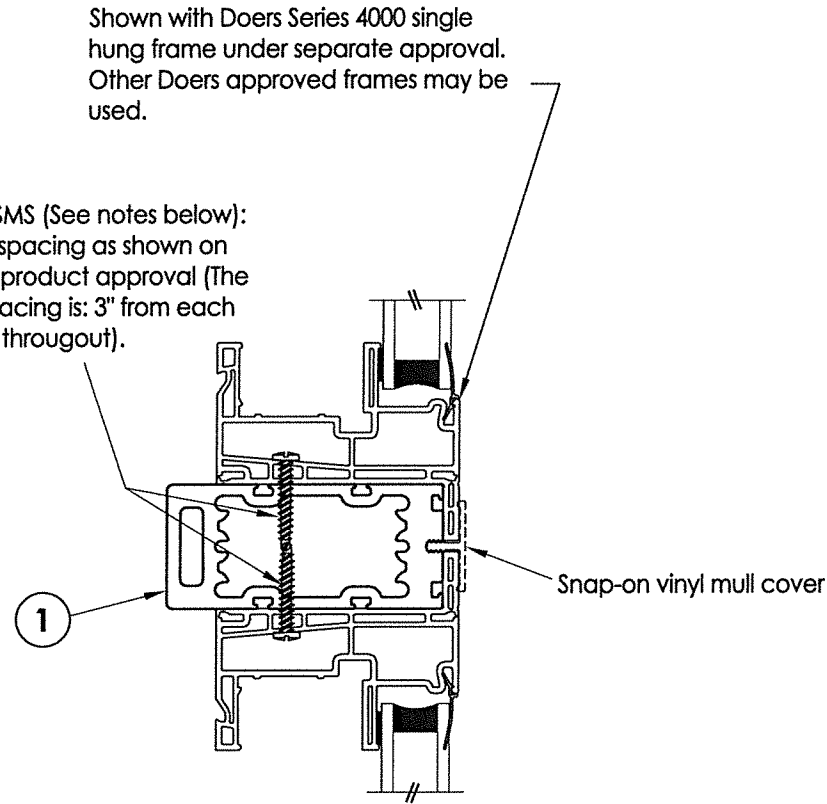


6 MULLION ANCHOR BRACKET (3418)
6063-T6 ALUM



5 MULLION ANCHOR BRACKET (3419)
6063-T6 ALUM

#8 X 1" PH Self-Drilling SMS (See notes below):
Use the frame anchor spacing as shown on
the individual window product approval (The
min. required screw spacing is: 3" from each
end and 24" max. o.c. throughout).



1 HORIZONTAL CROSS SECTION
2 4175 Mullion to Window Connection

Shown with Doers Series 4000 single
hung frame under separate approval.
Other Doers approved frames may be
used.

FLORIDA PROFESSIONAL ENGINEER
F. SCHMIDT
LICENSE
No. 43409
STATE OF FLORIDA
July 29, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

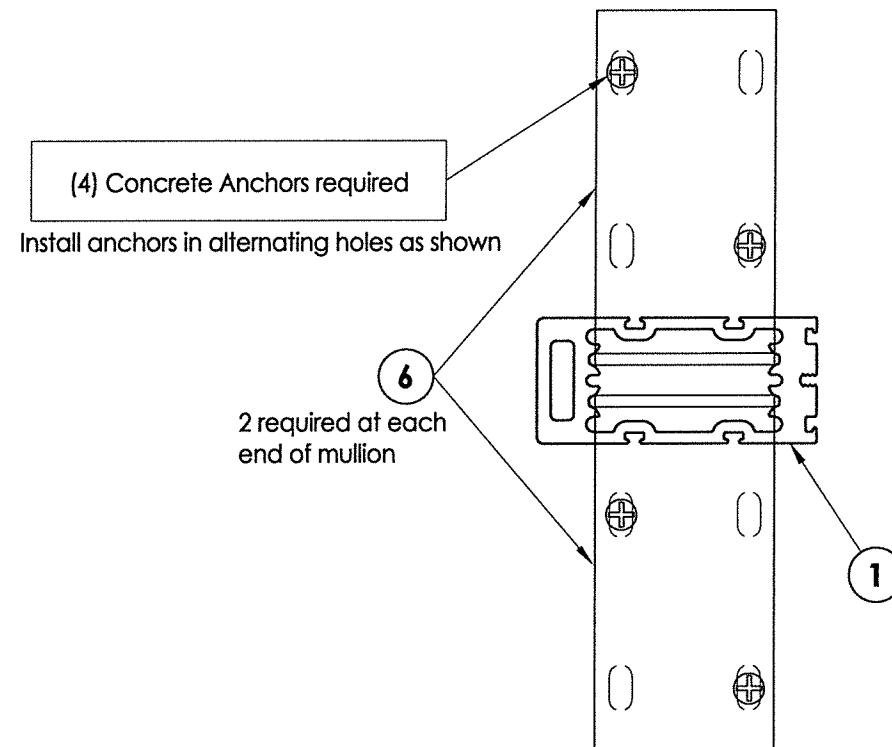
PRODUCT:		CLIPPED MULLION	
PART OR ASSEMBLY:		COMPONENT DETAILS & CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
2	7/29/20	LFS	UPDATE TO 7TH ED. (2020) FBC
1	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC
1	12/3/15	JK	DATE
DATE: 12/3/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15417.9			
SHEET 2 OF 8			

4175 MULLION		DESIGN PRESSURE (PSF)						
		MAX. OVERALL FRAME HEIGHT						
		48"	62"	74"	86"	98"	104"	109.375"
MAX. MULLION SPAN	84"	45	36	32	28	26	25	25
	80"	47	38	34	30	28	27	26
	76"	50	41	36	33	30	30	29
	72"	53	44	39	35	33	32	31
	69"	56	46	41	38	35	34	34
	66"	59	49	44	40	38	37	36
	63"	63	52	47	43	41	40	39
	60"	67	56	50	46	44	43	43
	54"	77	65	59	55	53	53	53
	48"	80	77	71	68	67	67	67



- [illegible]

4175 MULLION		DESIGN PRESSURE (PSF)						
		MAX. OVERALL FRAME HEIGHT						
		48"	62"	74"	86"	98"	104"	109.375"
MAX. MULLION SPAN	84"	71	58	51	46	42	41	40
	80"	76	62	54	49	45	44	43
	76"	80	66	58	53	49	47	46
	72"	80	71	62	57	53	52	50
	69"	80	74	66	60	57	55	54
	66"	80	79	70	65	61	59	58
	63"	80	80	75	69	65	64	63
	60"	80	80	80	75	71	70	69
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



Notes:

1. Design pressure tables are applicable only for the anchor bracket and anchors specified on this sheet. Refer to Sheet 7 for cross section details.



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

[Signature]

July 29, 2020

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

PRODUCT:

CLIPPED MULLION

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

PART OR ASSEMBLY:

DESIGN PRESSURE TABLES
(CONCRETE INSTALLATION)

RW

NO.	DATE	REVISIONS	BY
2	7/29/20	UPDATE TO 7TH ED. (2020) FBC	LFS
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 12/3/15

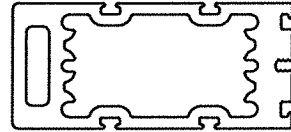
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

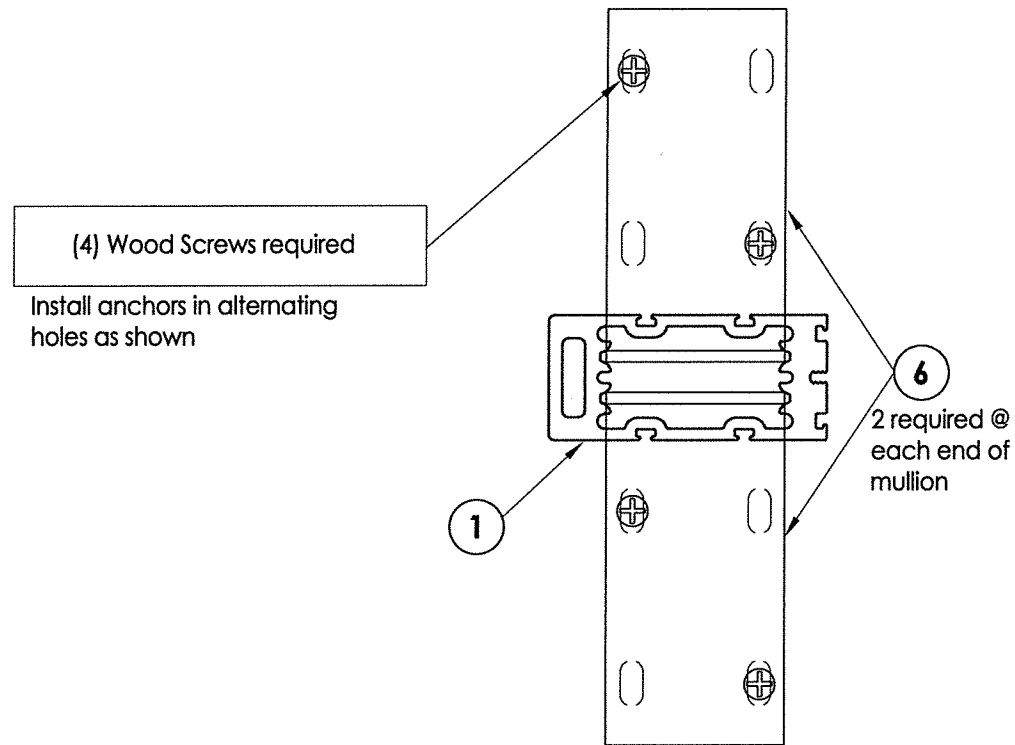
DRAWING NO.:
FL-15417.9

SHEET 4 **OF** 8



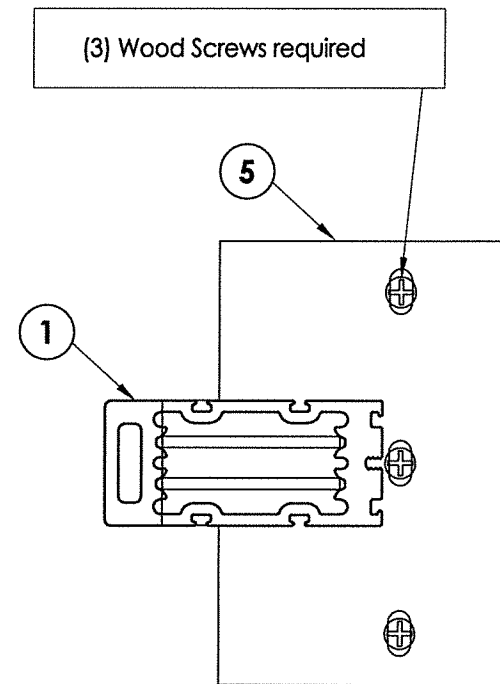
4175 MULLION

4175 MULLION		DESIGN PRESSURE (PSF)						
		MAX. OVERALL FRAME HEIGHT						
		48"	62"	74"	86"	98"	104"	109.375"
MAX. MULLION SPAN	84"	71	58	51	46	42	41	40
	80"	76	62	54	49	45	44	43
	76"	80	66	58	53	49	47	46
	72"	80	71	62	57	53	52	50
	69"	80	74	66	60	57	55	54
	66"	80	79	70	65	61	59	58
	63"	80	80	75	69	65	64	63
	60"	80	80	80	75	71	70	69
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



BRACKET (3418) TO MULLION DETAILS

Wood Anchor Installation

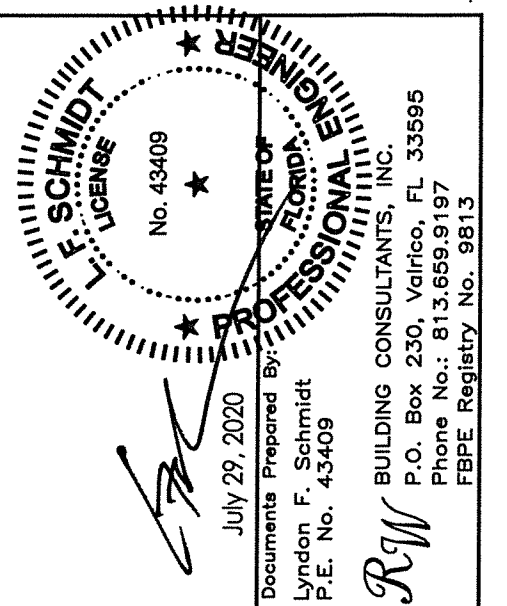


BRACKET (3419) TO MULLION DETAILS

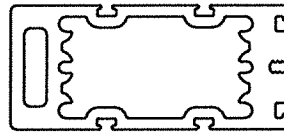
Wood Anchor Installation

Notes:

1. Design pressure tables are applicable only for the anchor bracket and anchors specified on this sheet. Refer to Sheet 7 for cross section details.

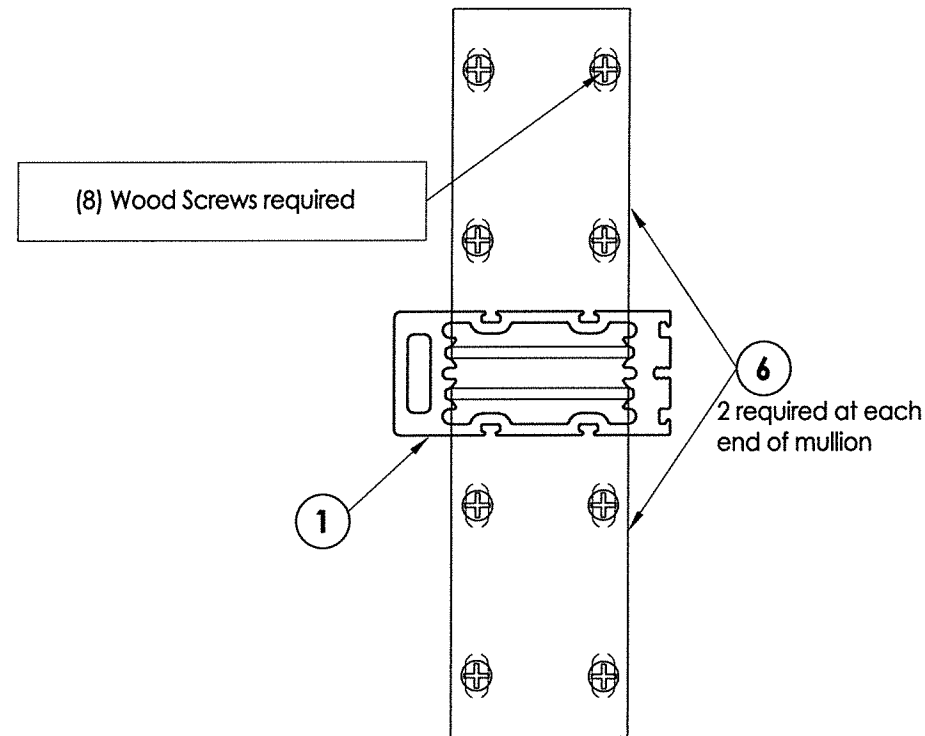


DATE: 12/3/15														PRODUCT:		CLIPPED MULLION	
SCALE: N.T.S.														PART OR ASSEMBLY:		DESIGN PRESSURE TABLES (WOOD INSTALLATION)	
DWG. BY: JK														LFS			
CHK. BY: LFS														JK			
DRAWING NO.: FL-15417.9														BY			
SHEET 5 OF 8																	
																REVISIONS	



4175 MULLION

4175 MULLION		DESIGN PRESSURE (PSF)						
		MAX. OVERALL FRAME HEIGHT						
		48"	62"	74"	86"	98"	104"	109.375"
MAX. MULLION SPAN	84"	78	60	50	43	38	35	34
	80"	80	70	58	50	44	41	39
	76"	80	80	68	58	51	48	45
	72"	80	80	80	68	60	56	54
	69"	80	80	80	78	68	64	61
	66"	80	80	80	80	78	73	70
	63"	80	80	80	80	80	80	80
	60"	80	80	80	80	80	80	80
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80

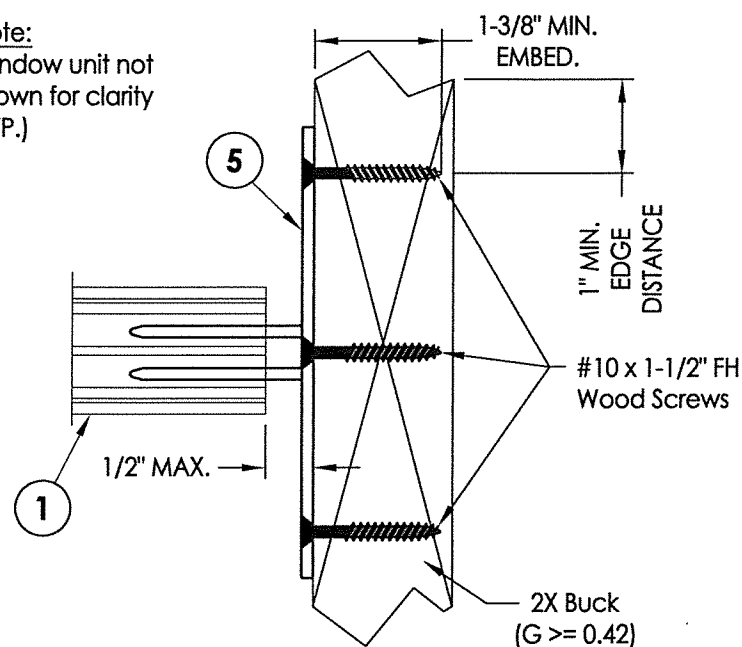


BRACKET (3418) TO MULLION DETAILS Wood Anchor Installation

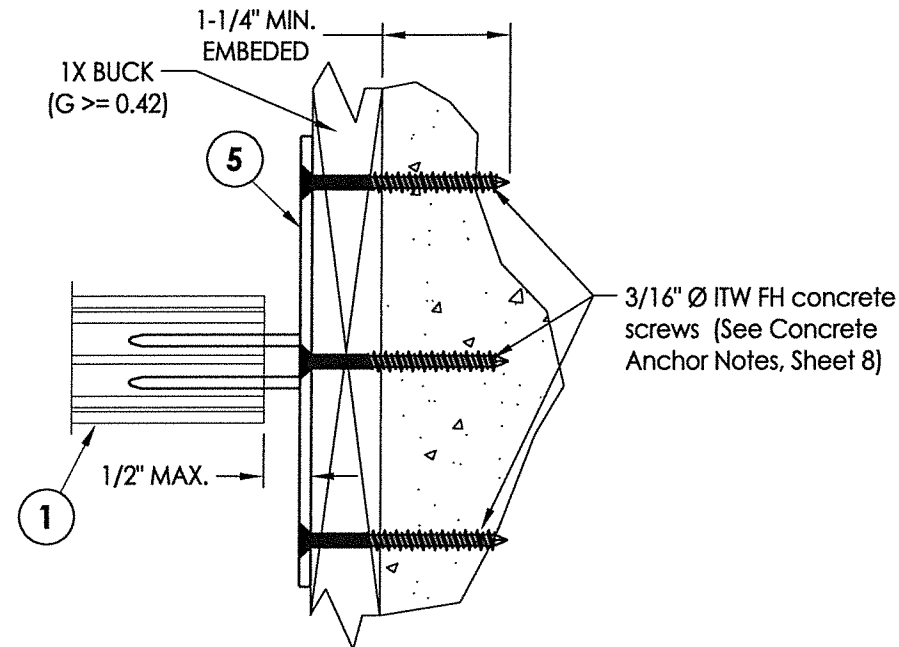
- Notes:
1. Design pressure tables are applicable only for the anchor bracket and anchors specified on this sheet. Refer to Sheet 7 for cross section details.

		July 29, 2020 <i>[Signature]</i> Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PRODUCT: CLIPPED MULLION		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PART OR ASSEMBLY: DESIGN PRESSURE TABLES (WOOD INSTALLATION)			
NO.	DATE	REVISIONS	
2	7/29/20	UPDATE TO 7TH ED. (2020)	FBC LFS
1	9/26/17	UPDATE TO 6TH ED. (2017)	FBC JK
			BY
REVISED			
DATE: 12/3/15			
SCALE: N.T.S.			
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.: FL-15417.9			
SHEET	6	OF	8

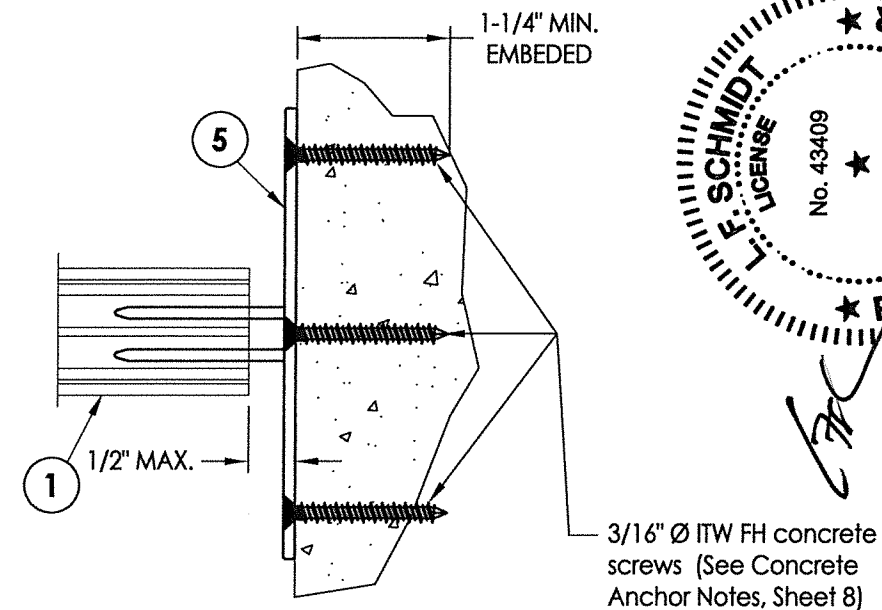
Note:
Window unit not
shown for clarity
(TYP.)



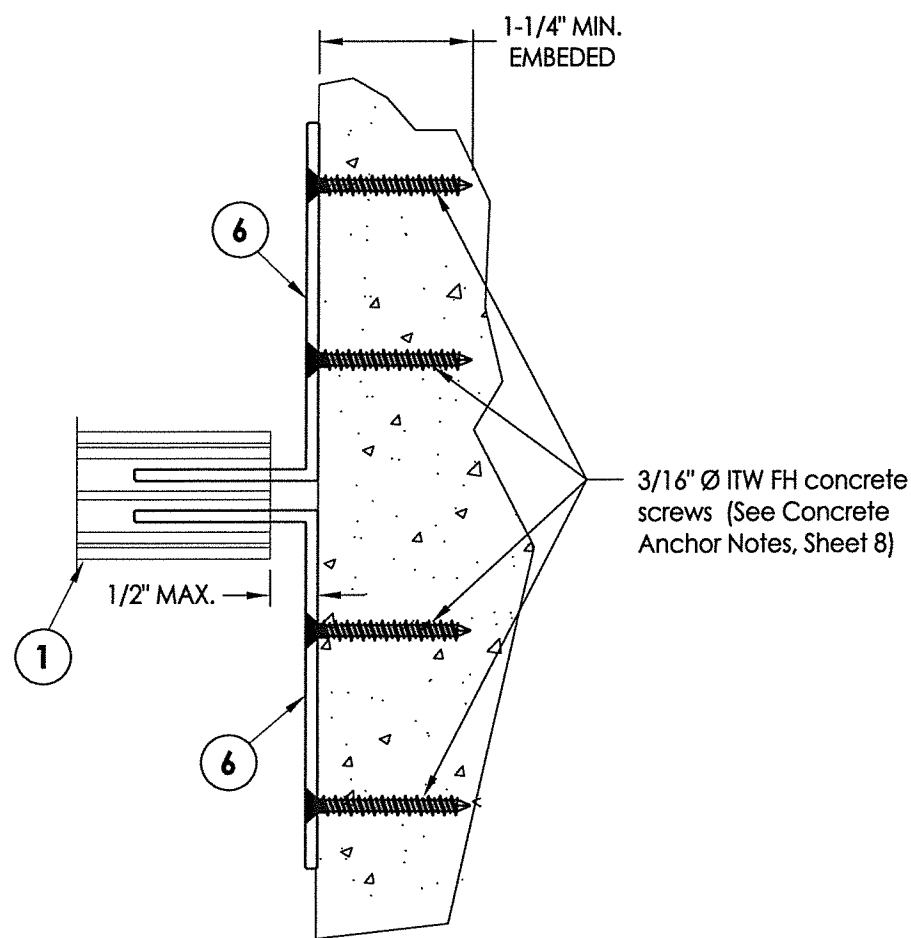
1 WOOD ANCHOR BRACKET DETAIL



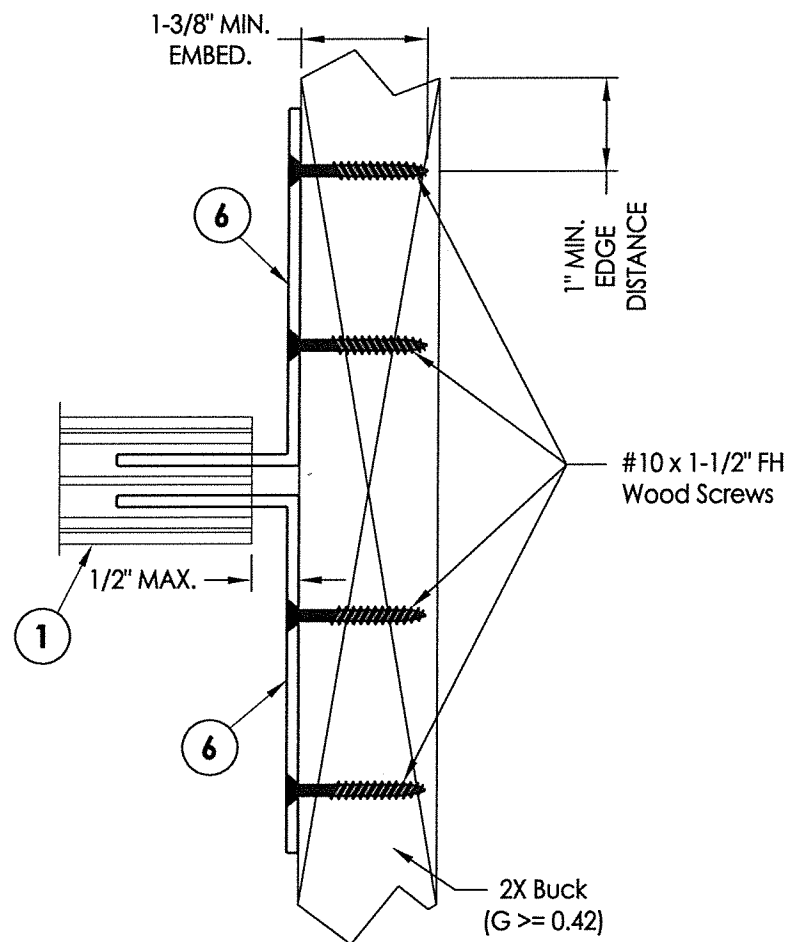
2 **CONCRETE ANCHOR BRACKET DETAIL**
7 Anchor to Masonry thru 1x Buck



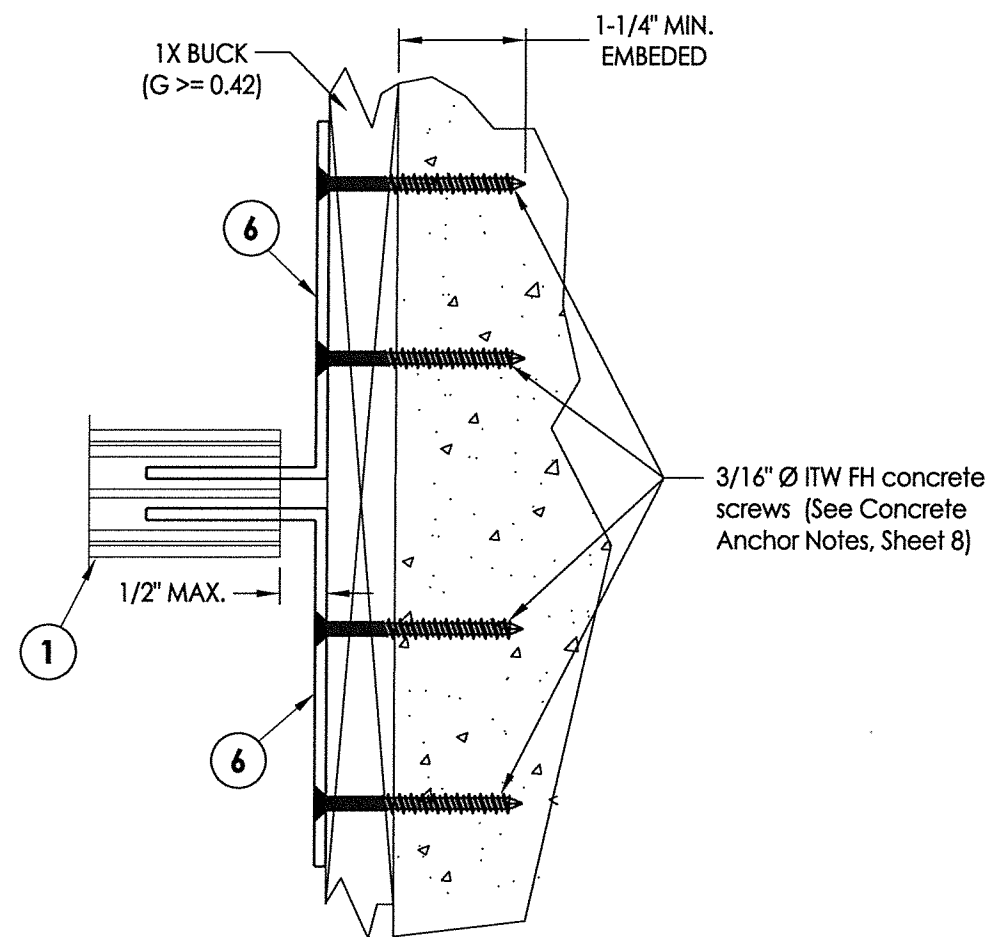
3 CONCRETE ANCHOR BRACKET DETAIL



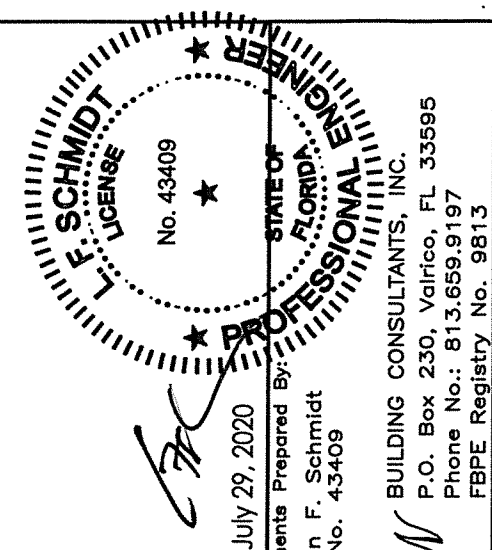
4 **CONCRETE ANCHOR BRACKET DETAIL**
7 Anchor Direct to Masonry



5 **WOOD ANCHOR BRACKET DETAIL**
7 Anchor to 2x Buck



6 CONCRETE ANCHOR BRACKET DETAIL
7 Anchor to 2x Buck



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

**STATE OF FLORIDA
PROFESSIONAL ENGINEER**

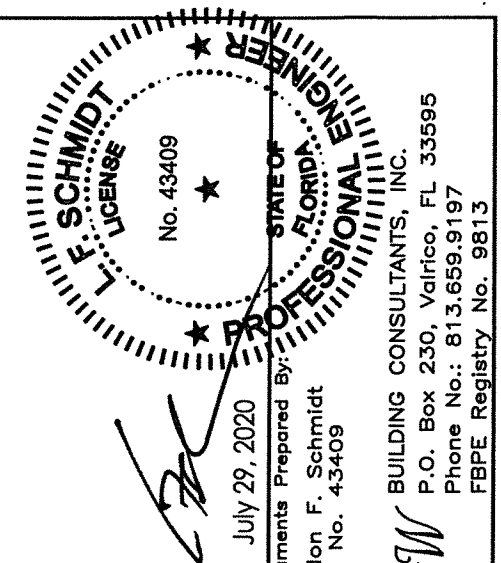
R^gW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

[illegible]

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	3/16"	1-1/4"	2"	1-7/8"
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	3"

SEE DESIGN PRESSURE TABLES (SHEETS 3, 4, 5 & 6)
FOR QUANTITY OF CONCRETE OR WOOD
ANCHORS REQUIRED PER EACH CLIP

MULLION ANCHORING



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

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

[illegible]