



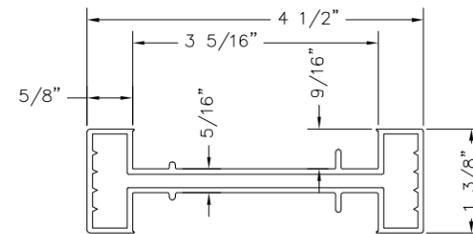
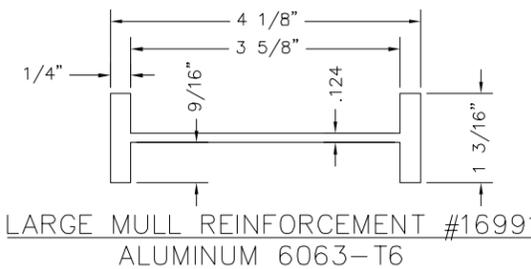
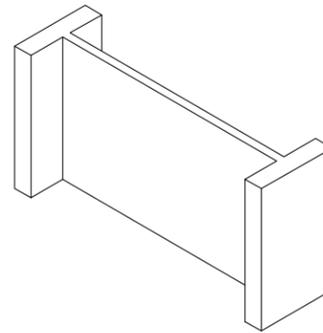
1 COCHRANE AVE. PENNSBORO, WV 26415 PH.  
800-426-2249

EXTRUDED IMPACT VINYL MULLIONS  
WITH ALUMINUM REINFORCEMENT –  
FOR IMPACT RESISTANT ASSEMBLIES

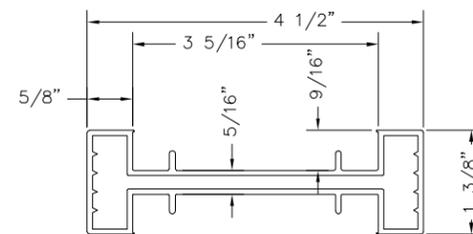
REV. #:	REVISIONS:	REVISED BY:	DATE:
3	UPDATED DESIGN PRESSURE RATINGS CHART PER NEW TESTING.	T.D.D.	06/20/12
4	ADDED LARGE MULLION AND DP CHART	L.A.T.	11/10/14
5	UPDATED O.C. SPACING TO 12"–EC 18–031.	LMH	08/12/19
6	UPDATED DWG TO INCLUDE BOTH HORIZONTAL & VERTICAL VIEWS.	LMH	11/26/19

GENERAL NOTES:

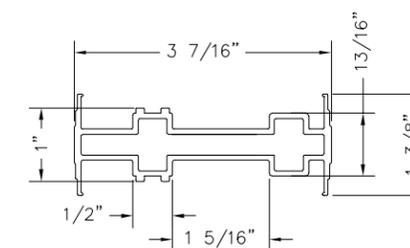
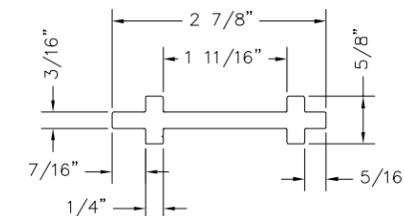
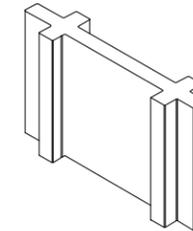
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS REVISIONS EFFECTIVE JAN. 1, 2008
2. THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE IMPACT-RATED WINDOW SYSTEMS.
3. ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL. ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE TEXAS CODE REQUIREMENTS.
4. ADEQUACY OF EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT INSTALLATION.
5. 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT INSTALLATION.
6. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A TEXAS LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
7. THIS MULLION SYSTEM IS SUITABLE FOR ASSEMBLY OF IMPACT RESISTANT PRODUCTS AND DOES NOT REQUIRE AN EXTERNAL IMPACT PROTECTIVE DEVICE IN WINDBORNE DEBRIS REGIONS.



LARGE VINYL MULLION COVER #VPI-354  
EXTRUDED VINYL .071" MIN.



LARGE VINYL MULLION COVER #VPI-354  
EXTRUDED VINYL .071" MIN.



MEDIUM VINYL MULLION COVER #VPI-436  
EXTRUDED VINYL .070" MIN.



22  
12/30/2019  
LUCAS A. TURNER, P.E. TX PE #115094  
2428 OLD NACHEZ TRACE TRAIL  
CAMDEN, TN 38320  
Ph. 941-380-1574



SIZE: DRAWING NO.:	REV.:
B RM0052	6
DRAWN BY:	DATE:
GLS	12/18/08
CHECKED BY:	DATE:
	01-24-12

SCALE:	SHEET:	APPR'VD BY:	DATE:
FIT	1 of 6	C.P.	

SERIES: SIMONTON IMPACT MULLIONS-TDI  
TITLE: GENERAL NOTES & CROSS SECTIONS

TABLE OF CONTENTS

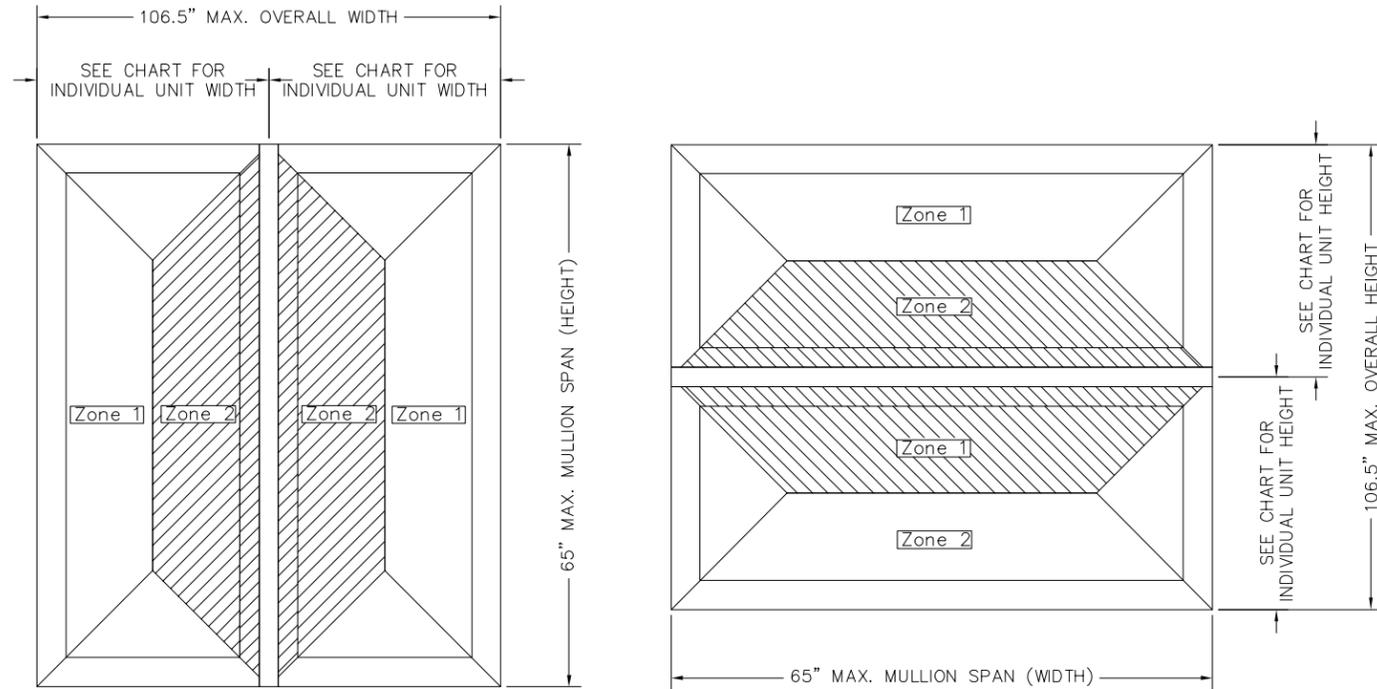
SHT	DESCRIPTION
1	GENERAL NOTES, MULLION CROSS SECTIONS
2	DESIGN PRESSURES FOR MEDIUM MULL, REINF. 20634
3	DESIGN PRESSURES FOR LARGE MULL, REINF. 16991
4	MULLION DETAILS
5	MULLION ATTACHMENT AND WOOD ANCHORING
6	MULLION ATTACHMENT AND CONCRETE ANCHORING



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EXTRUDED IMPACT VINYL MULLIONS  
WITH ALUMINUM REINFORCEMENT –  
FOR IMPACT RESISTANT ASSEMBLIES

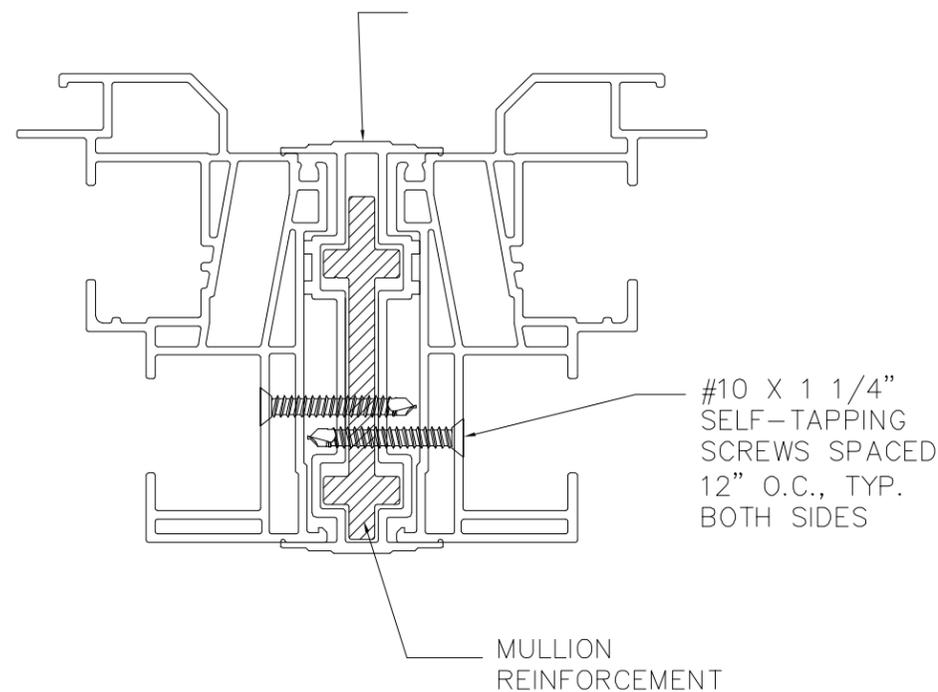
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DESIGN PRESSURE TABLE FOR MULLING  
UNITS IN PSF, MULLION #20634

Mullion Length	Individual Unit Width or Height												
	28	30	32	34	36	37	40	42	45	48	50	53	
26	50	50	50	50	50	50	50	50	50	50	50	50	50
36	50	50	50	50	50	50	50	50	50	50	50	50	50
42	50	50	50	50	50	50	50	50	50	50	50	50	50
52	50	50	50	50	50	50	50	50	50	50	50	50	50
56	50	50	50	50	50	50	50	50	50	50	50	50	50
58	50	50	50	50	50	50	50	50	50	50	50	50	50
60	50	50	50	50	50	50	50	50	50	45	45	45	45
62	50	50	50	50	50	50	45	45	45	40	40	40	40
63	50	50	50	50	50	45	45	40	40	40	40	35	35
65	50	50	45	45	40	40	40	35	35	35	35	30	30

MULLION COVER



NOTE:

The pressure chart shows the design pressures for the selected mullion span and panel width for achieving bending capacity, deflection and concentrated load limits specified in the 2006 International Residential Code with Texas Revisions Effective Jan. 1 2008.

Adhere to fastening instructions provided in this document to achieve the tabulated design pressures.

Multiple mullion conditions are acceptable as long as load width is not exceeded.



22 12/30/2019 LUCAS A. TURNER, P.E. TX PE #115094 2428 OLD NATCHEZ TRACE TRAIL CAMDEN, TN 38320 Ph. 941-380-1574	SCALE: FIT SERIES: SIMONTON IMPACT MULLIONS-TDI TITLE: MEDIUM MULL DESIGN PRESSURE CHART	SIZE: DRAWING NO.: B RM0052 DRAWN BY: GLS CHECKED BY: C.P. DATE: 12/18/08 DATE: 01-24-12 DATE:	REV.: 6
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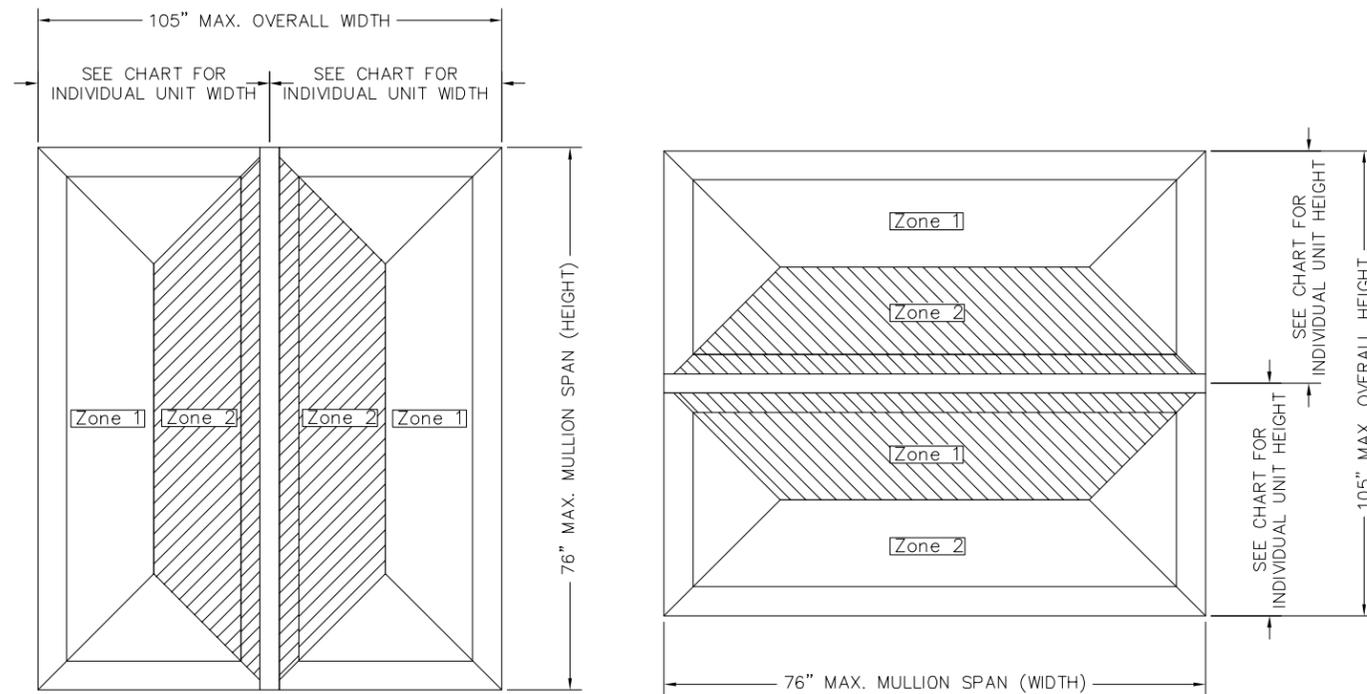


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EXTRUDED IMPACT VINYL MULLIONS  
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DESIGN PRESSURE TABLE FOR MULLING  
UNITS IN PSF, MULLION #16991



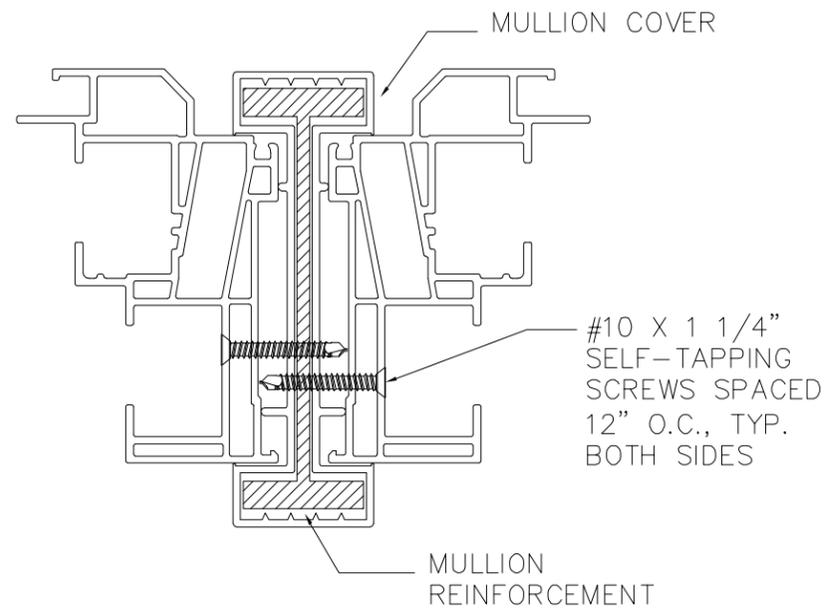
Mullion Length	Individual Unit Width or Height											
	28	30	32	34	36	37	40	42	45	48	50	53
36	50	50	50	50	50	50	50	50	50	50	50	50
42	50	50	50	50	50	50	50	50	50	50	50	50
52	50	50	50	50	50	50	50	50	50	50	50	50
56	50	50	50	50	50	50	50	50	50	50	50	50
58	50	50	50	50	50	50	50	50	50	50	50	50
60	50	50	50	50	50	50	50	50	50	50	50	50
62	50	50	50	50	50	50	50	50	50	50	50	50
63	50	50	50	50	50	50	50	50	50	50	50	50
65	50	50	50	50	50	50	50	50	50	50	50	50
67	50	50	50	50	50	50	50	50	50	50	50	50
68	50	50	50	50	50	50	50	50	50	50	50	50
70	50	50	50	50	50	50	50	50	50	50	50	45
71	50	50	50	50	50	50	50	50	50	50	45	45
72	50	50	50	50	50	50	50	50	50	45	45	45
74	50	50	50	50	50	50	50	50	45	45	45	45
76	50	50	50	50	50	50	50	45	45	45	45	40
78	50	50	50	50	50	50	45	45	45	40	40	40
80	50	50	50	50	50	50	45	45	40	40	40	40
82	50	50	50	50	50	45	45	40	40	40	40	35
84	50	50	50	50	45	45	40	40	40	35	35	35

NOTE:

The pressure chart shows the design pressures for the selected mullion span and panel width for achieving bending capacity, deflection and concentrated load limits specified in the 2006 International Residential Code with Texas Revisions Effective Jan. 1 2008.

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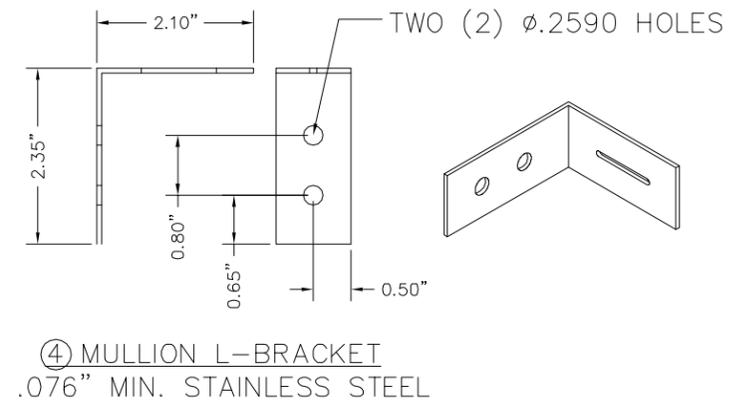
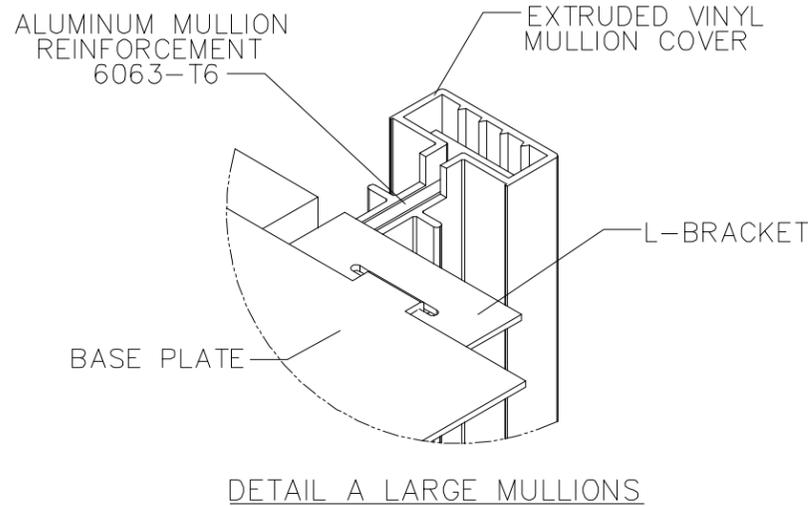
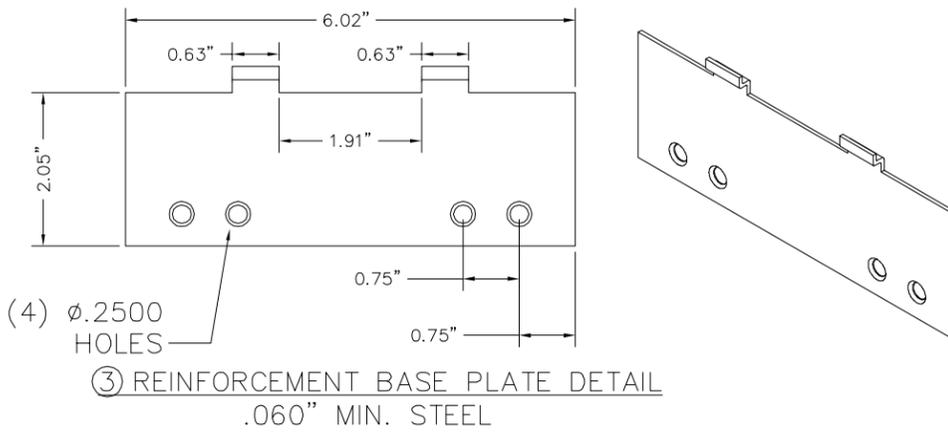
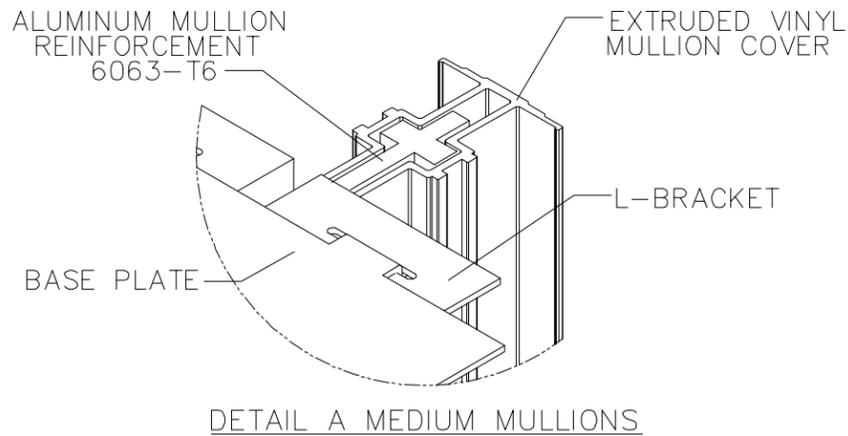
 12/30/2019 LUCAS A. TURNER, P.E. TX PE #115094 2428 OLD NACHEZ TRACE TRAIL CAMDEN, TN 38320 Ph. 941-380-1574	SCALE: FIT SERIES: SIMONTON IMPACT MULLIONS-TDI TITLE: LARGE MULL DESIGN PRESSURE CHART	SIZE: DRAWING NO.: B RM0052 DRAWN BY: GLS CHECKED BY: DATE: APPR'VD BY: C.P. DATE: 01-24-12	REV.: 6 DATE: 12/18/08
	SIMONTON WINDOWS 1 Cochrane Avenue Pennsboro, WV 26415		



1 COCHRANE AVE. PENNSBORO, WV 26415 PH.  
800-426-2249

EXTRUDED IMPACT VINYL MULLIONS  
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6	UPDATED DWG TO INCLUDE BOTH HORIZONTAL & VERTICAL VIEWS.	LMH	11/26/19



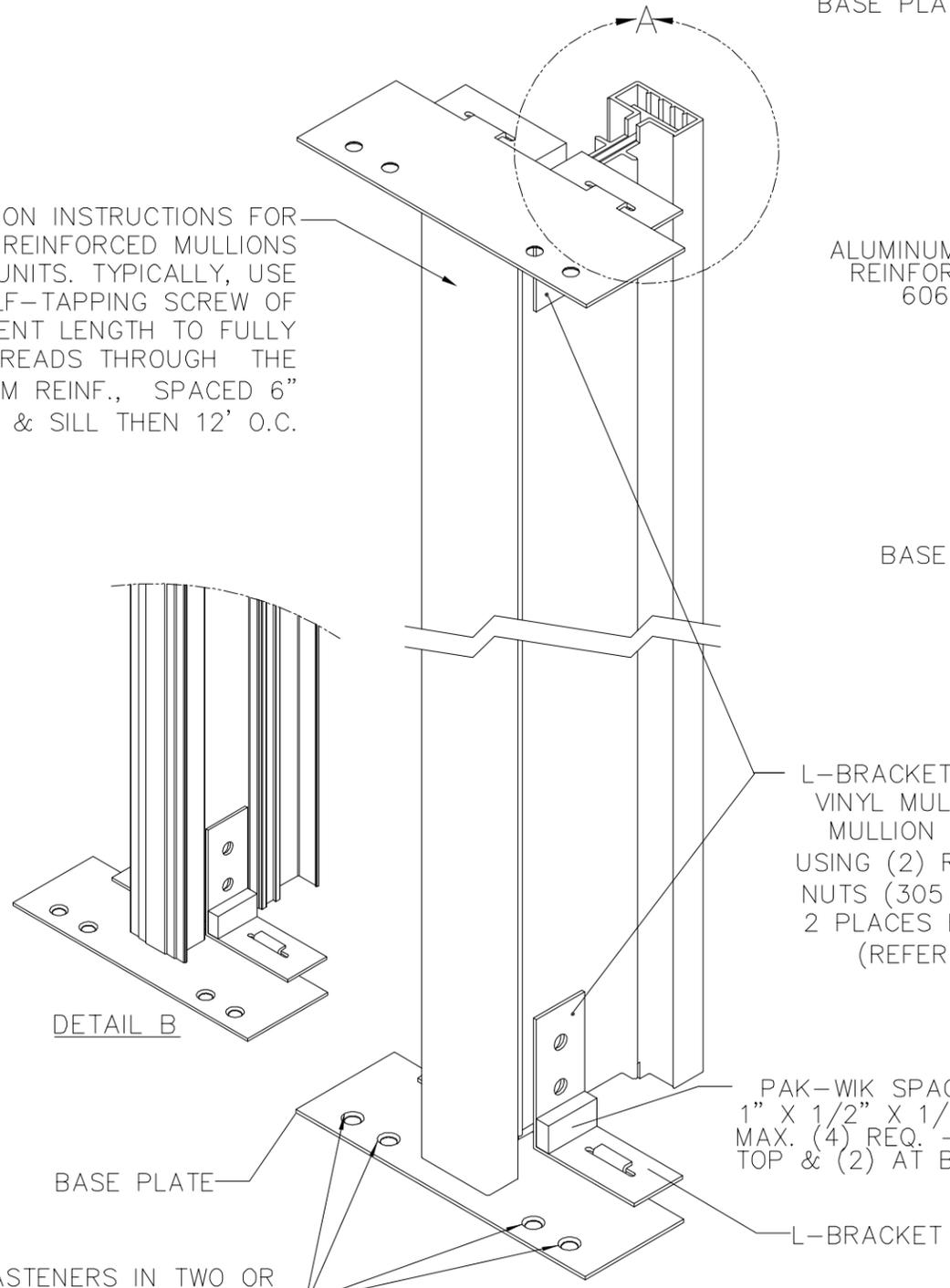
INSTALLATION INSTRUCTIONS FOR ATTACHING REINFORCED MULLIONS TO WINDOW UNITS. TYPICALLY, USE SELF-TAPPING SCREW OF SUFFICIENT LENGTH TO FULLY ENGAGE THREADS THROUGH THE ALUMINUM REINF., SPACED 6" FROM HEAD & SILL THEN 12" O.C.

L-BRACKET IS ATTACHED TO VINYL MULLION COVER AND MULLION REINFORCEMENT USING (2) RIVETS OR BARREL NUTS (305 LB. MAX. SHEAR) 2 PLACES EACH L-BRACKET (REFER TO TABLE 1)

RIVET	.25 DIA. STEEL RIVET WITH A GRIP LENGTH OF .50 MAX.
BARREL NUT	#10-24 OR #10-32 STAINLESS STEEL BARREL NUT, .250 O.D. X .25" LG WITH .125 MIN ENGAGEMENT

NOTES:

- WOOD FRAME: USE (4) #10 X 1 3/4" WOOD SCREWS AT THE HEAD AND SILL THROUGH BASE PLATES, WITH 1-1/2" MINIMUM EMBEDMENT INTO WOOD FOR MULLION ATTACHMENT. SEE SHEET 5 FOR DETAILS.
- SOLID CONCRETE: USE (2) I.T.W. ADVANCED THREADFORM TECHNOLOGY TAPCON ANCHORS AT HEAD AND SILL THROUGH BASE PLATES, WITH 1 3/4" MINIMUM EMBEDMENT FOR MULLION ATTACHMENT. SEE SHEET 6 FOR DETAILS
- TWO (2) RIVETS OR BARREL NUTS ARE REQUIRED TO ATTACH L-BRACKETS TO ALUMINUM MULLION. SEE TABLE 1 (THIS SHEET).



ASSEMBLED MULLION ATTACHMENT VIEW

LARGE MULLION SHOWN, MEDIUM MULLION SIMILAR, SEE DETAIL B FOR MEDIUM ATTACHMENT VIEW AT SILL

INSTALLATION FASTENERS IN TWO OR FOUR HOLES PER SUBSTRATE, SEE SHEETS 5 AND 6



ZZ 12/30/2019  
LUCAS A. TURNER, P.E. TX PE #115094  
2428 OLD NATCHEZ TRACE TRAIL  
CAMDEN, TN 38320  
Ph. 941-380-1574

**SIMONTON**  
WINDOWS  
1 Cochrane Avenue  
Pennsboro, WV 26415

SIZE: DRAWING NO.: REV.:  
B RM0052 6  
DRAWN BY: DATE:  
GLS 12/18/08  
CHECKED BY: DATE:  
APPR'VD BY: DATE:  
C.P. 01-24-12

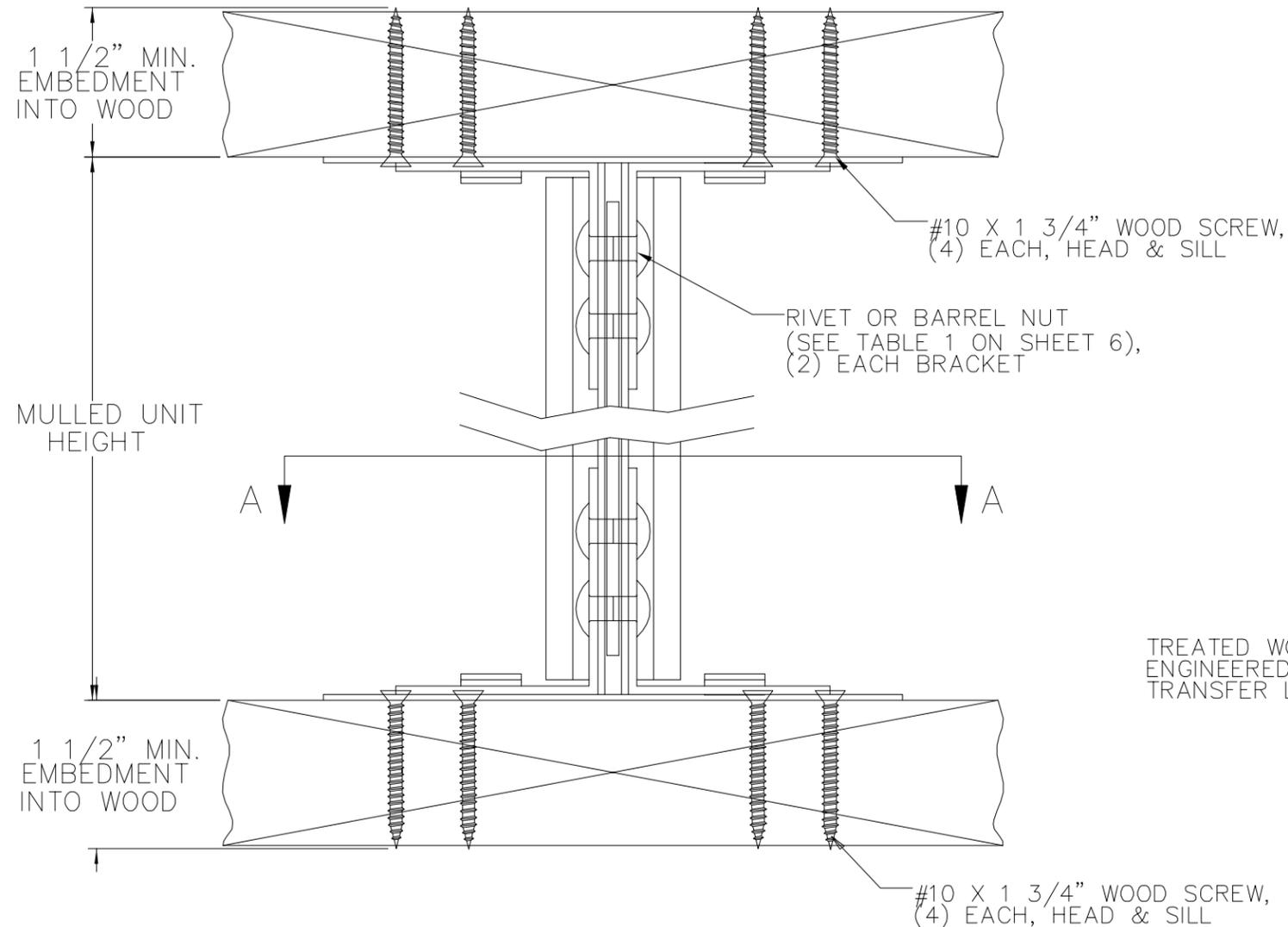
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SERIES: SIMONTON IMPACT MULLIONS-TDI  
TITLE: MULLION, PLATE, AND BRACKET DETAILS



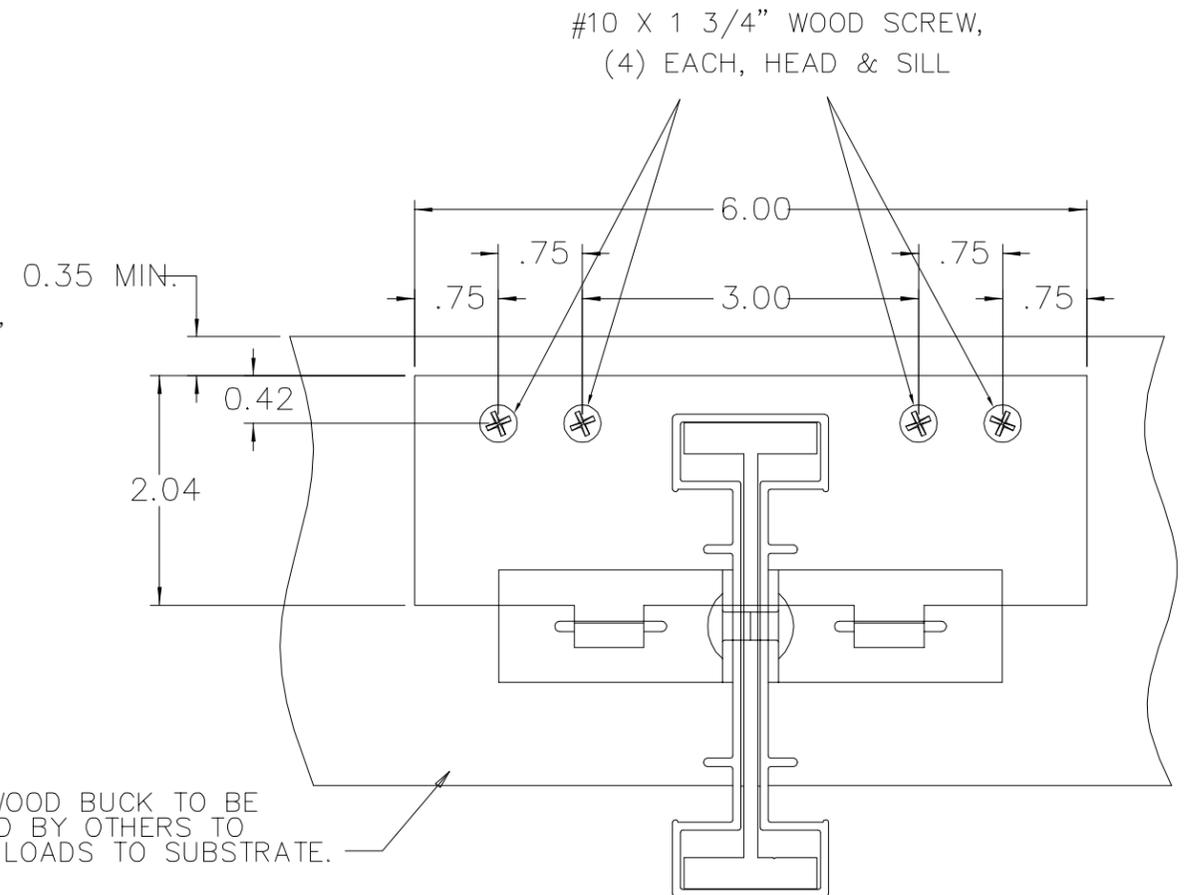
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VERTICAL CROSS SECTION  
WITH 2X WOOD SUBSTRATE



SECTION A-A



ZZ 12/30/2019

LUCAS A. TURNER, P.E. TX PE #115094 2428 OLD NACHEZ TRACE TRAIL CAMDEN, TN 38320 Ph. 941-380-1574	SCALE: FIT	SHEET: 5 of 6	APPRVD BY: C.P.	DATE: 01-24-12
	SIMONTON IMPACT MULLIONS-TDI			
TITLE: WOOD INSTALLATION DETAILS				



SIZE: DRAWING NO.: B RM0052	REV.: 6
DRAWN BY: GLS	DATE: 12/18/08
CHECKED BY:	DATE:

NOTES:

1. THE MULLION PRODUCTS AND THEIR INSTALLATION COMPLY WITH THE 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS REVISIONS EFFECTIVE JAN. 1, 2008
2. THE MULLIONS SHALL BE USED IN CONNECTION WITH TDI APPROVED PRODUCTS.
3. ANCHORS SHALL HAVE 1 1/2" MINIMUM EMBEDMENT INTO WOOD AND 7/8" MINIMUM WOOD EDGE DISTANCE.
4. ATTACHMENT OF ALL 2X TREATED WOOD BUCKS SHALL BE ENGINEERED SEPARATELY BY OTHERS.
5. WOOD SHALL BE TREATED 2X SPRUCE, PINE, OR FIR.
6. #10 WOOD SCREWS SHALL BE STEEL CONFORMING TO ASTM A 653.
7. BASE PLATES AND L-BRACKETS ARE STAINLESS STEEL CONFORMING TO ANSI 302/304.
8. SIMILAR INSTALLATIONS ARE USED ON HEAD AND SILL.

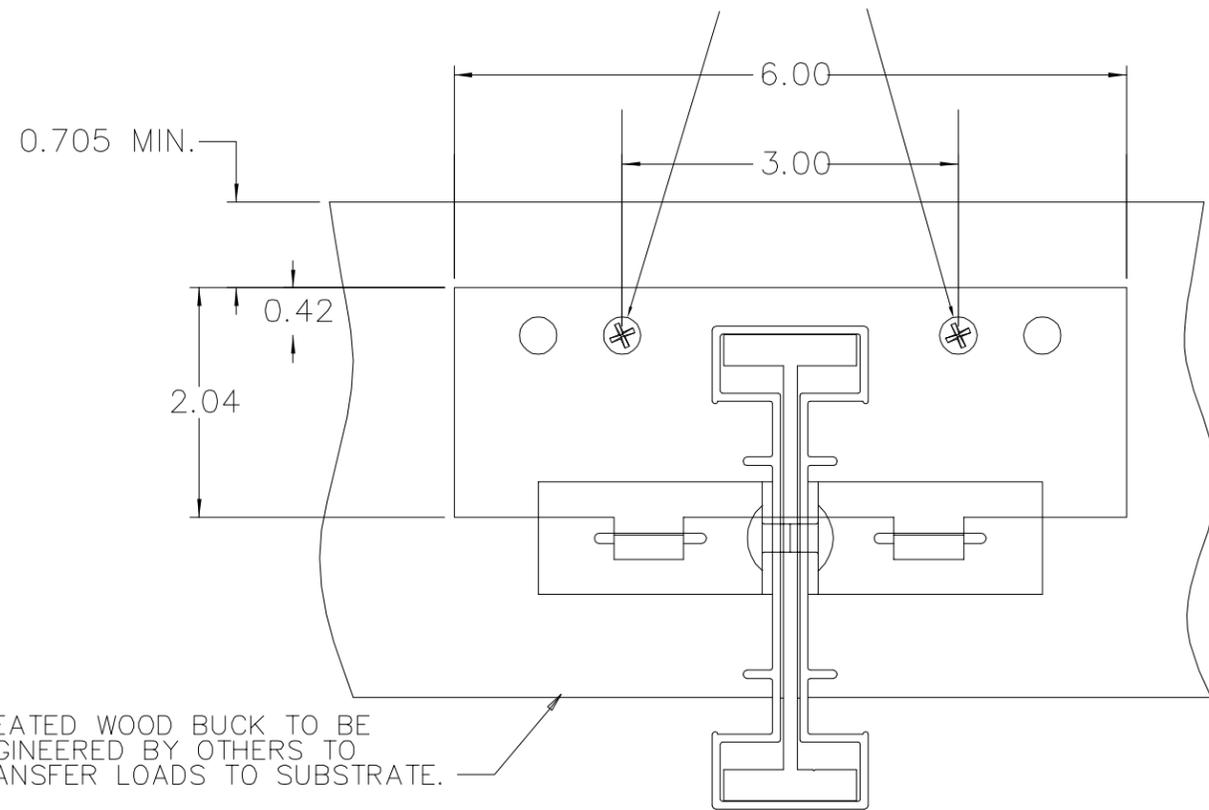


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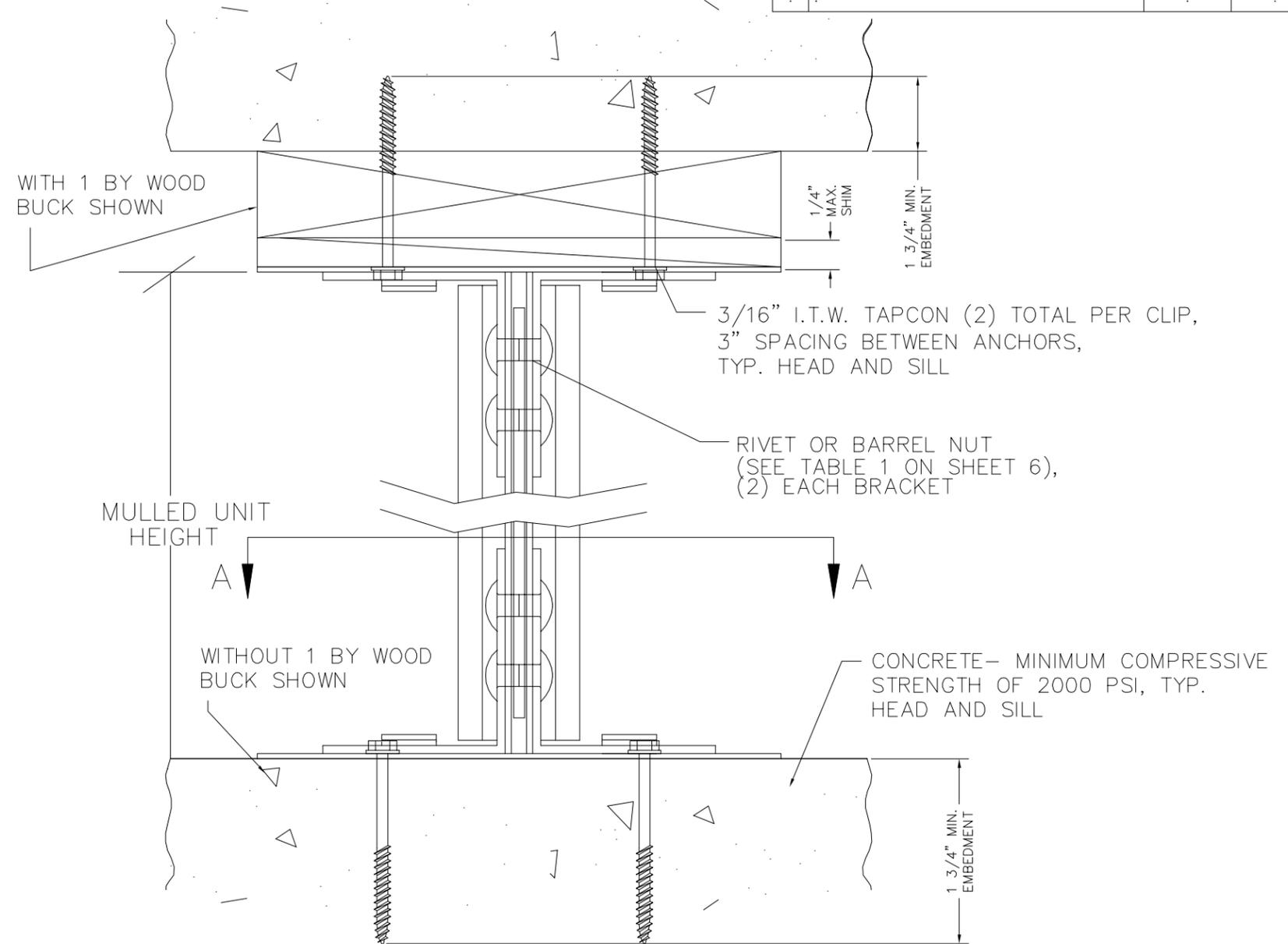
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3/16" I.T.W. TAPCON (2) TOTAL PER CLIP,  
MIN. 3" SPACING BETWEEN ANCHORS



SECTION A-A



NOTES:

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2. THE MULLIONS SHALL BE USED IN CONNECTION WITH TDI APPROVED PRODUCTS.
3. ANCHORS SHALL HAVE 1 3/4" MINIMUM EMBEDMENT & 1 1/8" MINIMUM EDGE DISTANCE FOR SOLID CONCRETE.
4. ATTACHMENT OF ALL TREATED WOOD BUCKS SHALL BE ENGINEERED SEPARATELY BY OTHERS.
5. WOOD SHALL BE TREATED SPRUCE, PINE, OR FIR.
6. I.T.W. ADVANCED THREADFORM TECHNOLOGY TAPCONS OR EQUAL SHALL BE GRADE 5 HEAT TREATED STEEL WITH CORROSION RESISTANT COATING.
7. BASE PLATES AND L-BRACKETS ARE STAINLESS STEEL CONFORMING TO ANSI 302/304.
8. SIMILAR INSTALLATIONS ARE USED ON HEAD AND SILL.



VERTICAL CROSS SECTION WITH  
MASONRY/CONCRETE SUBSTRATE

 1 Cochrane Avenue Pennsboro, WV 26415	SIZE: DRAWING NO.:	REV.:
	B RM0052	6
12/30/2019 LUCAS A. TURNER, P.E. TX PE #115094 2428 OLD NACHEZ TRACE TRAIL CAMDEN, TN 38320 Ph. 941-380-1574	DRAWN BY:	DATE:
	GLS	12/18/08
FIT 6 of 6	CHECKED BY:	DATE:
SCALE:	SHEET:	APPR'VD BY:
	6 of 6	C.P.
SERIES: SIMONTON IMPACT MULLIONS-TDI		DATE: 01-24-12
TITLE: MASONRY INSTALLATION DETAILS		