



PALM CITY IRONWORKS
3160 KUTAK RD.
FORT MYERS, FL 33916

PH: (239) 691-8400 FX: (239)277-0061

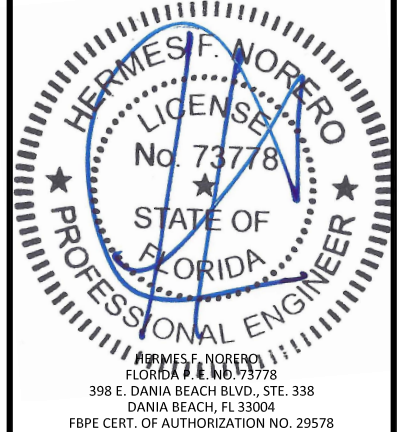
TITLE: STEEL TUBE MULLION
(IMPACT)(WZ3)
MULLION AND CLIPS

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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 LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



FL32367

DATE: 05.05.20

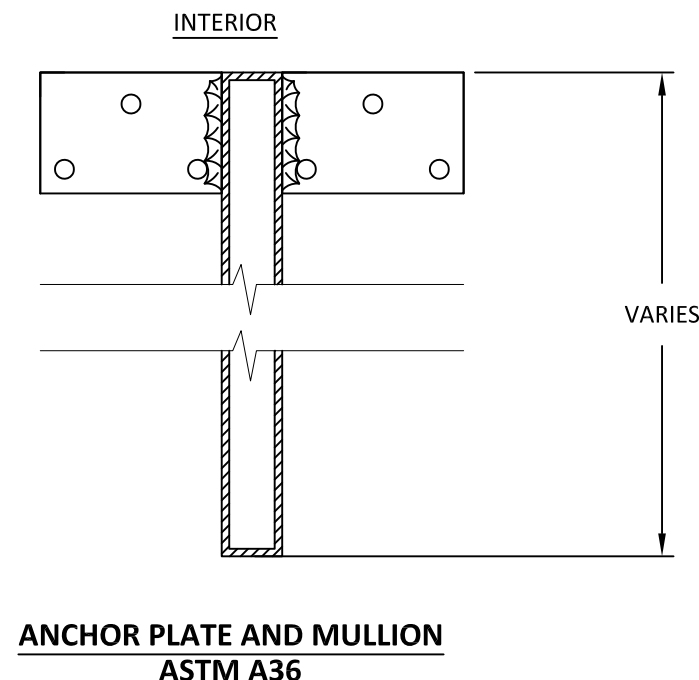
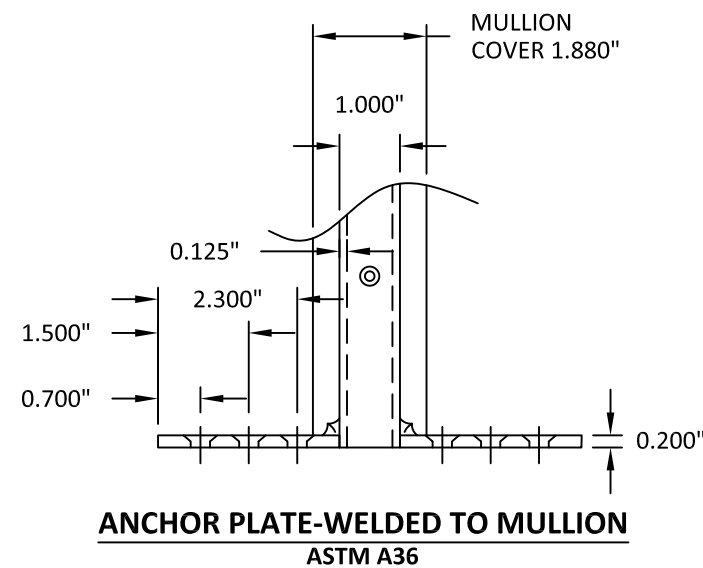
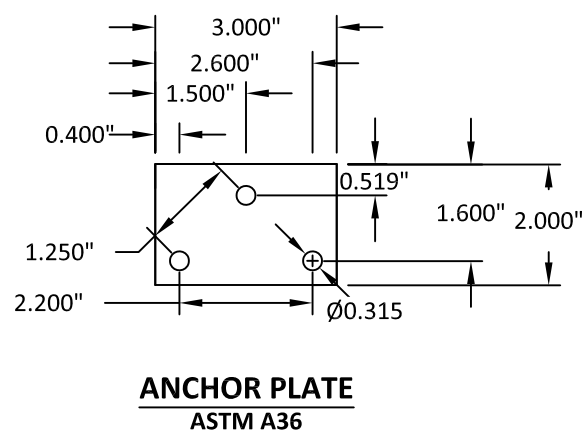
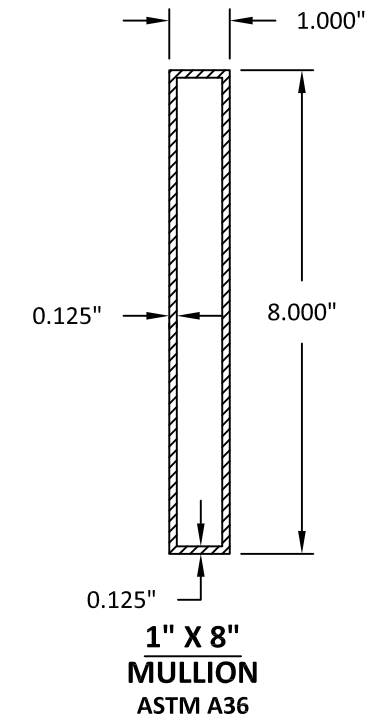
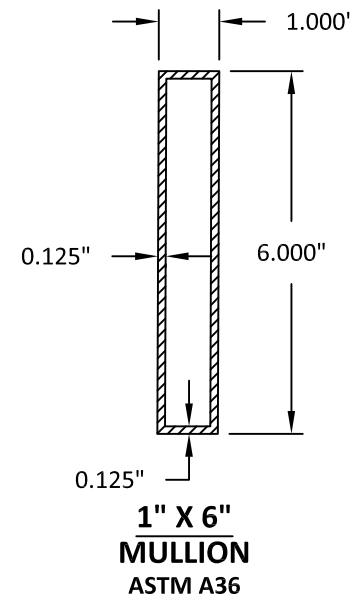
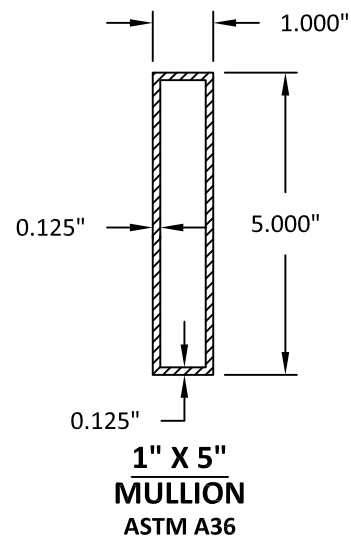
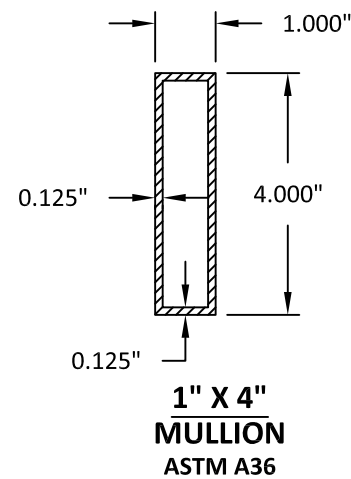
DWG. BY: YC CHK. BY: HFN

SCALE: NTS

DWG. #: PCI012

SHEET: 2

OF 9



EXTERIOR

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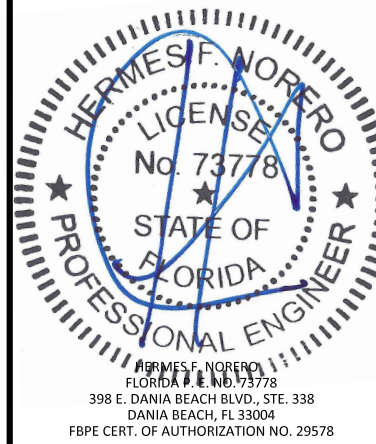
TITLE: STEEL TUBE MULLION (IMPACT)(WZ3)
MULLION AND CLIPS

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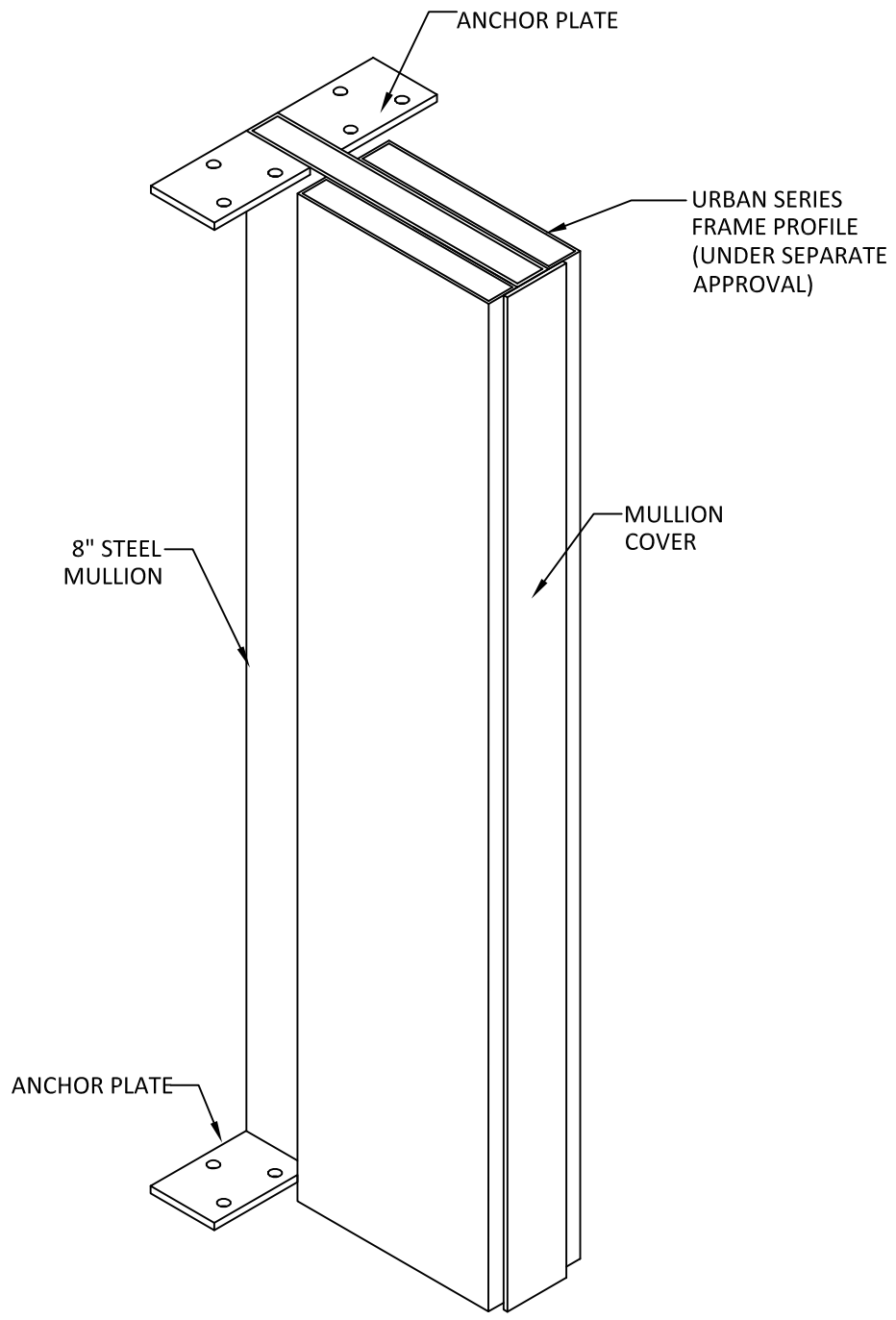
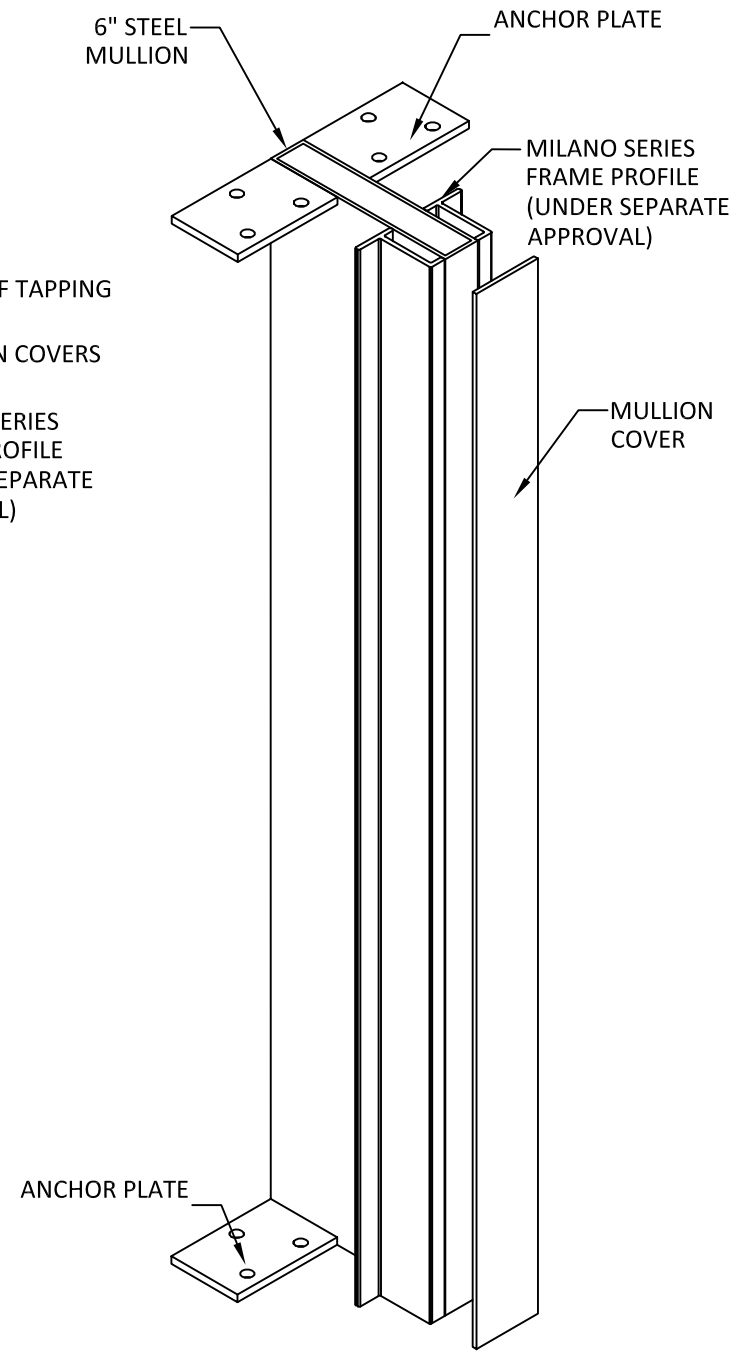
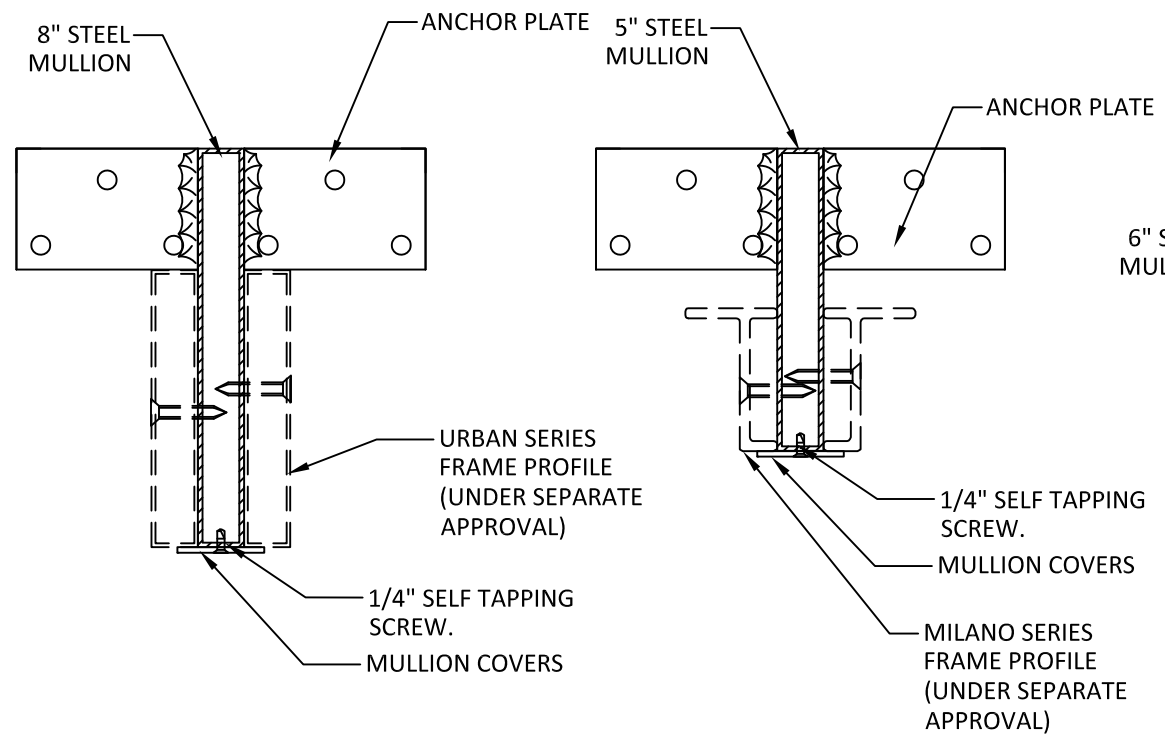
SCALE: NTS

DWG. #: PCI012

SHEET:

3

OF 9



**ANCHOR PLATE AT 1"X 8" MULLION
ASTM A36**

**ANCHOR PLATE AT 1"X 6" MULLION
ASTM A36**

MULLION & CLIP ASSEMBLY (TYP.)

NOTE: ASSEMBLY SHOWN ABOVE IS DIAGRAMMATIC IN SCOPE. OTHER CLIP & MULLION ASSEMBLIES ARE ALLOWED, SEE SPECIFIC MULLION SHEET 2 FOR DETAILS.

NOTE: INSTALLATION DETAIL SECTIONS SHOW VERTICAL MULLION CONDITION. HORIZONTAL MULLIONS QUALIFIED FOR USE, RESULTING HORIZONTAL SECTIONS WOULD BE TYPICAL FOR VERTICAL SECTIONS.

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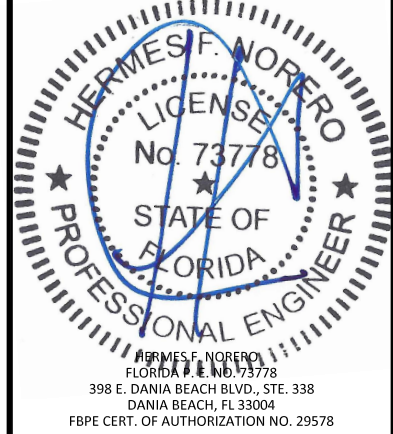
TITLE: STEEL TUBE MULLION (IMPACT)(WZ3)
VERTICAL SECTIONS

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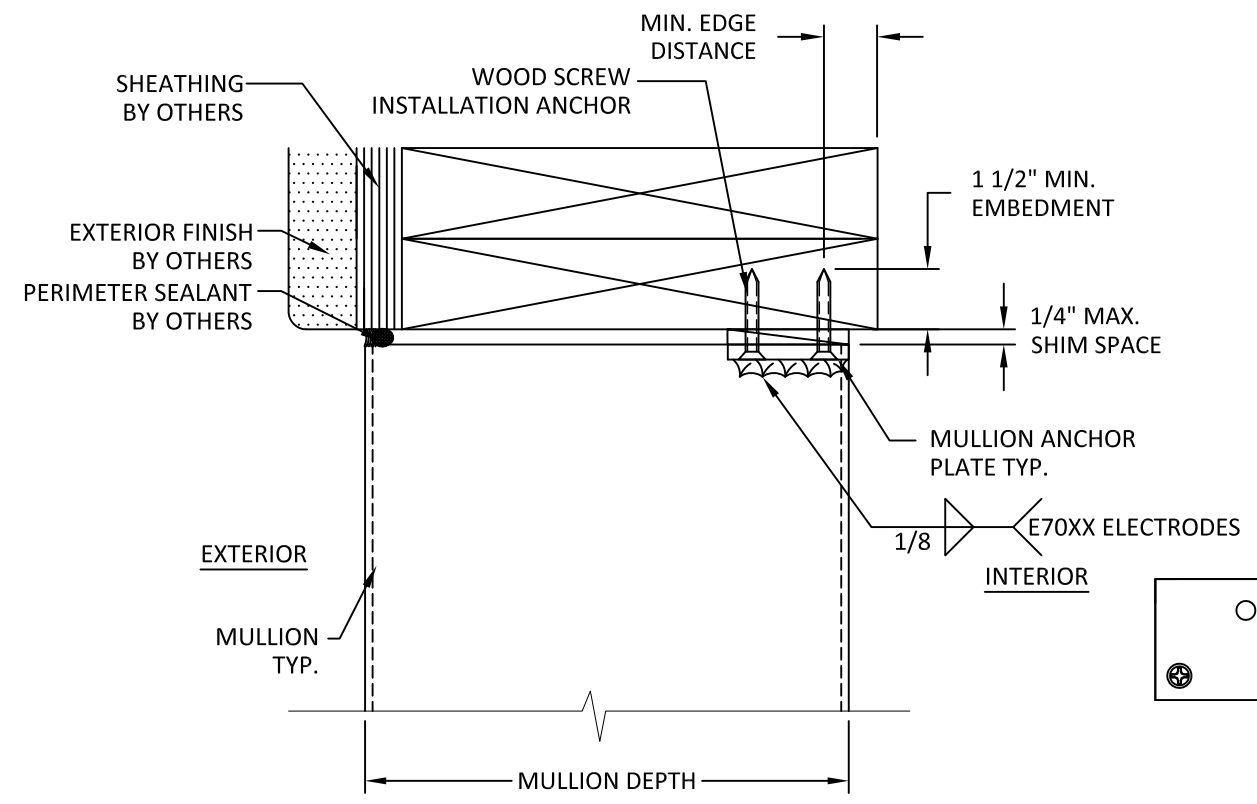
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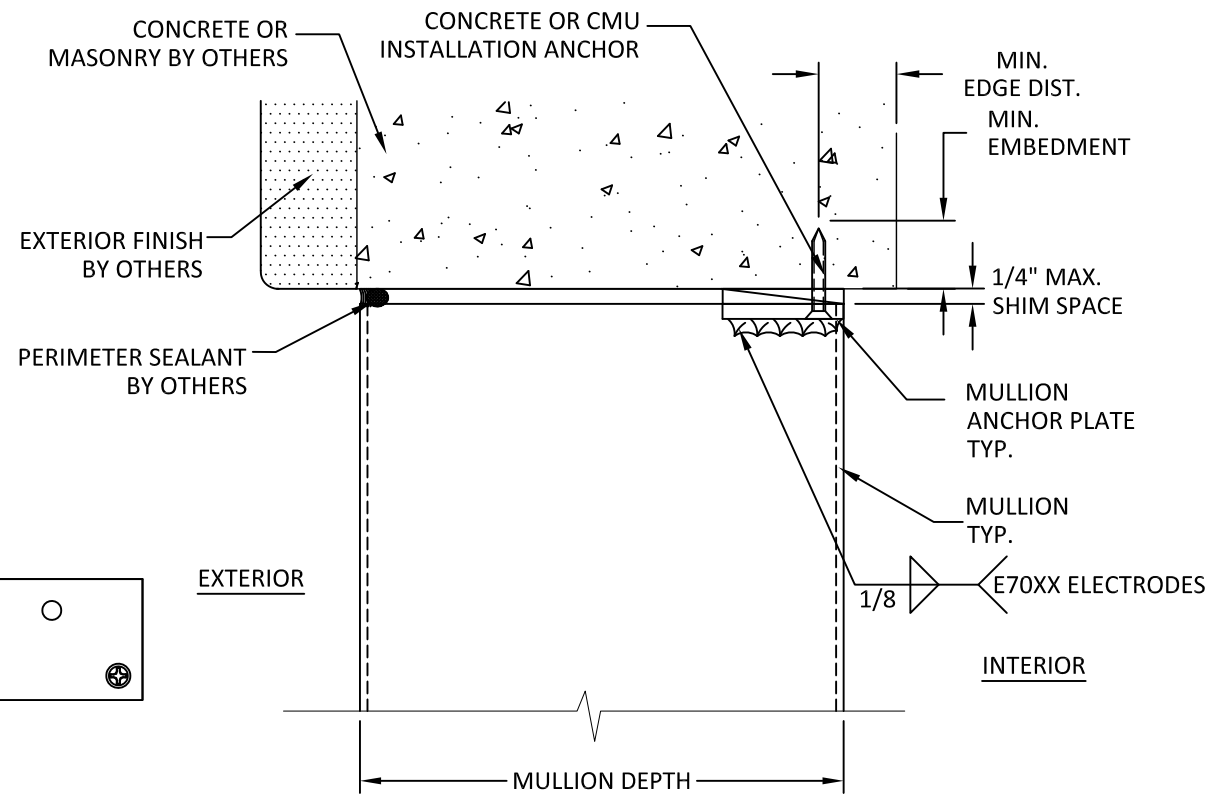


FL32367

DATE:	05.05.20
DWG. BY:	YC
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	PCI012
SHEET:	4

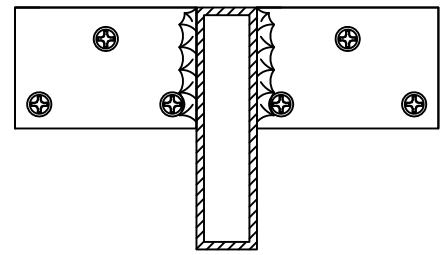


A
4 VERTICAL SECTION
HEAD - 2X WOOD BUCK OR FRAMING
SIDE VIEW-VERTICAL

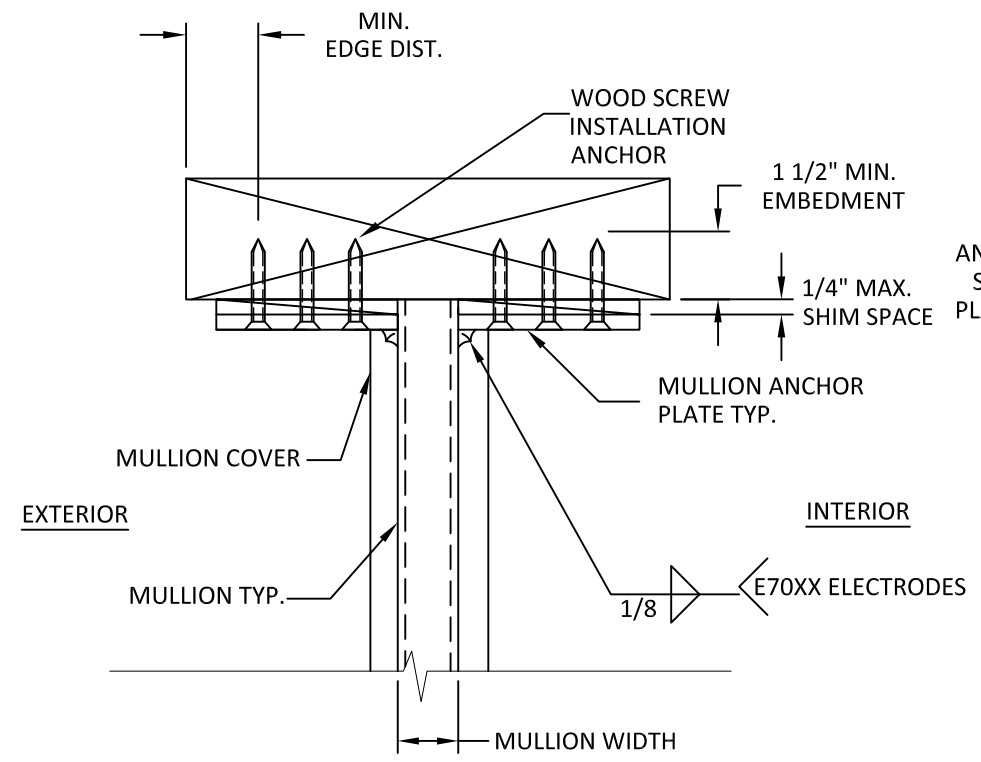


B
4 VERTICAL SECTION
HEAD - CONCRETE/MASONRY
SIDE VIEW-VERTICAL

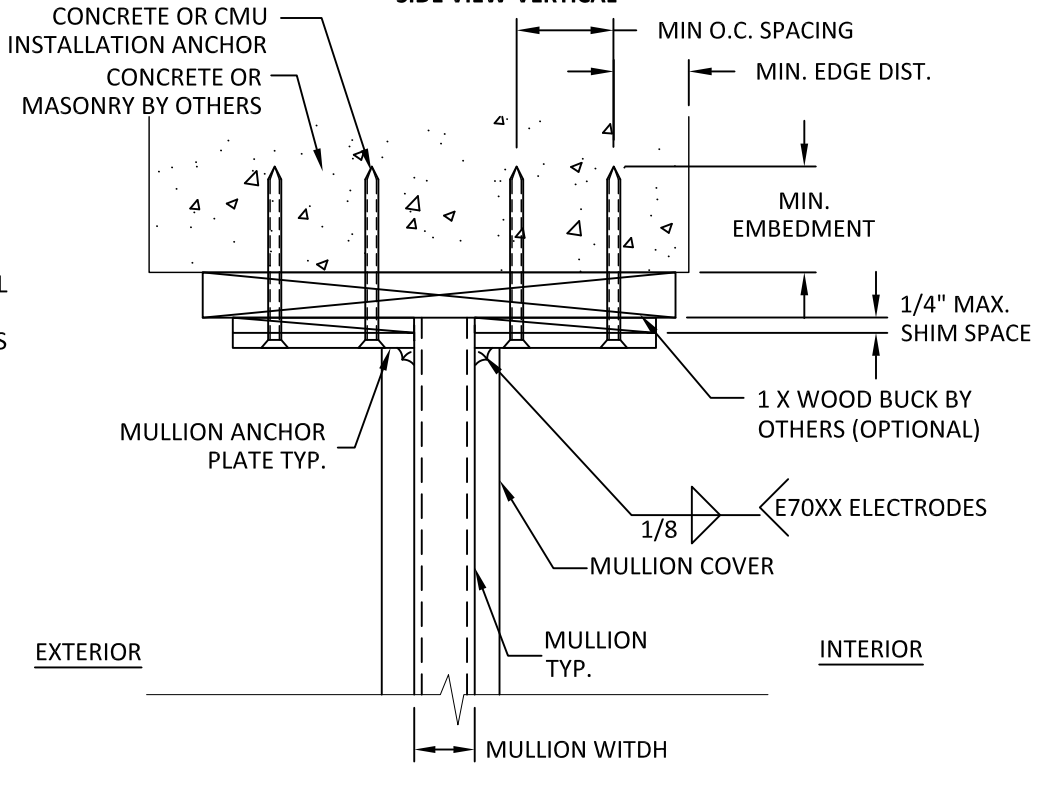
ANCHOR PATTERN FOR CONCRETE/CMU SUBSTRATES. LAYOUT TYPICAL ON EACH PLATE. SEE PAGE 5-8 FOR ANCHOR DETAILS



ANCHOR PATTERN FOR WOOD AND METAL SUBSTRATES. LAYOUT TYPICAL ON EACH PLATE. SEE PAGE 5-8 FOR ANCHOR DETAILS



C
4 VERTICAL SECTION
HEAD - 2X WOOD BUCK OR FRAMING
FRONT VIEW-VERTICAL



D
4 VERTICAL SECTION
HEAD - CONCRETE/MASONRY
FRONT VIEW-VERTICAL

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DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 4" - ONE-WAY MULLIONS(WOOD, CONCRETE AND METAL SUBSTRATES)

L - Mull Length (in)	W - Tributary Width (in)								
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	100.0	100.0	100.0	100.0	100.0	100.0	93.9	89.2	86.0
96.0	100.0	100.0	100.0	88.0	78.9	72.1	67.0	63.1	60.2
108.0	100.0	82.6	69.8	60.8	54.2	49.3	45.4	42.5	40.1
120.0	74.1	59.8	50.4	43.8	38.9	35.2	32.3	30.0	28.2
132.0	55.5	44.7	37.6	32.6	28.9	26.1	23.9	22.1	20.6
144.0	42.6	34.3	28.8	25.0	22.1	19.9	18.1	16.7	15.6
156.0	33.5	26.9	22.6	19.5	17.2	15.5	-	-	-

DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 4" - ONE-WAY MULLIONS (CMU APPLICATION)

L - Mull Length (in)	W - Tributary Width (in)								
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	98.4	94.9	92.2
84.0	100.0	100.0	100.0	90.3	83.0	77.7	73.8	71.0	69.2
96.0	100.0	98.4	85.1	75.9	69.2	64.2	60.4	57.5	55.3
108.0	100.0	82.6	69.8	60.8	54.2	49.3	45.4	42.5	40.1
120.0	74.1	59.8	50.4	43.8	38.9	35.2	32.3	30.0	28.2
132.0	55.5	44.7	37.6	32.6	28.9	26.1	23.9	22.1	20.6
144.0	42.6	34.3	28.8	25.0	22.1	19.9	18.1	16.7	15.6
156.0	33.5	26.9	22.6	19.5	17.2	15.5	-	-	-

DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 4" - TWO-WAY MULLIONS(WOOD, CONCRETE AND METAL SUBSTRATES)

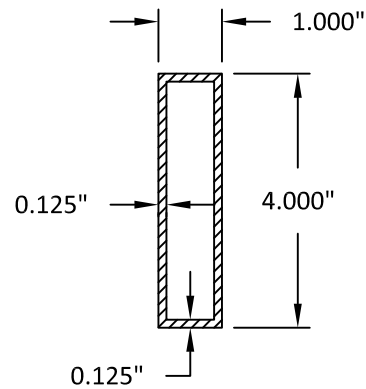
L - Mull Length (in)	W - Tributary Width (in)								
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	91.3
72.0	100.0	100.0	100.0	100.0	100.0	100.0	91.3	83.0	76.1
84.0	100.0	100.0	100.0	100.0	97.6	86.7	78.1	71.0	65.1
96.0	100.0	100.0	95.1	81.5	71.3	63.4	57.0	51.8	47.5
108.0	100.0	80.1	66.8	57.2	50.1	44.5	40.1	36.4	33.4
120.0	73.0	58.4	48.7	41.7	36.5	32.4	29.2	26.5	24.3
132.0	54.8	43.9	36.6	31.3	27.4	24.4	21.9	19.9	18.3
144.0	42.2	33.8	28.2	24.1	21.1	18.8	16.9	15.4	-
156.0	33.2	26.6	22.2	19.0	16.6	-	-	-	-

DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 4" - TWO-WAY MULLIONS (CMU SUBSTRATE)

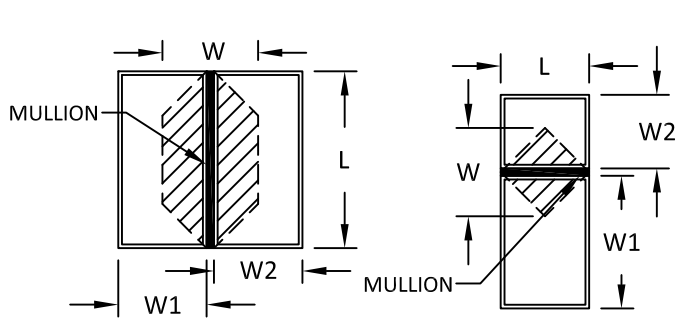
L - Mull Length (in)	W - Tributary Width (in)								
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.4
48.0	100.0	100.0	100.0	100.0	100.0	94.4	85.0	77.3	70.8
60.0	100.0	100.0	100.0	97.1	85.0	75.6	68.0	61.8	56.7
72.0	100.0	100.0	94.4	81.0	70.8	63.0	56.7	51.5	47.2
84.0	100.0	97.1	81.0	69.4	60.7	54.0	48.6	44.2	40.5
96.0	100.0	85.0	70.8	60.7	53.1	47.2	42.5	38.6	35.4
108.0	94.4	75.6	63.0	54.0	47.2	42.0	37.8	34.3	31.5
120.0	73.0	58.4	48.7	41.7	36.5	32.4	29.2	26.5	24.3
132.0	54.8	43.9	36.6	31.3	27.4	24.4	21.9	19.9	18.3
144.0	42.2	33.8	28.2	24.1	21.1	18.8	16.9	15.4	-
156.0	33.2	26.6	22.2	19.0	16.6	-	-	-	-

TABLE NOTES:

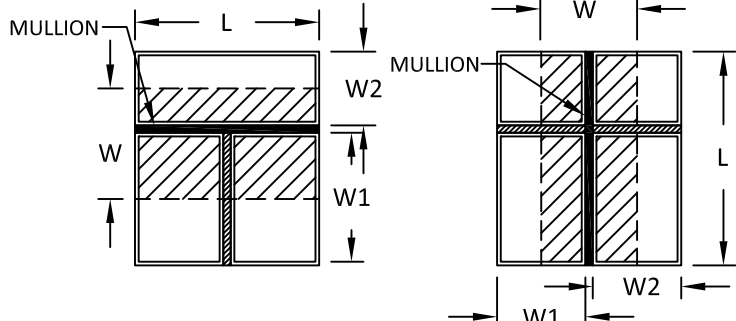
- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 2 AND 4 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 2 FOR SPECIFIC CLIP DIMENSIONS.
- ANCHOR REQUIREMENTS:
 - WOOD: #14 WOOD SCREWS
 - CMU: 1/4" ITW TAPCONS
 - CONCRETE: 1/4" ITW TAPCONS
 - METAL: #12 SELF-DRILLING SCREWS (GRADE 5)
- INSTALLATION SUBSTRATES:
 - WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/2" & EDGE DISTANCE OF 1". WOOD SHALL BE MIN. S.G.=0.55.
 - HOLLOW CMU ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1.00", EDGE DISTANCE OF 4.00" & MIN ON CENTER SPACING OF 2.00". HOLLOW CMU SHALL BE MEDIUM WEIGHT CONFORMING TO ASTM C 90.
 - CONCRETE ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-3/4" EDGE DISTANCE OF 3.00" & MIN ON CENTER SPACING OF 2.00". CONCRETE SHALL BE MIN. 3000 PSI.
 - METAL ANCHORS SHALL HAVE A MIN. (3) THREADS PENETRATION BEYOND METAL STRUCTURE. STEEL SHALL BE MIN. 18 GA. (0.045" THICK) 33 KSI YIELD. ALUMINUM SHALL BE MIN. 1/8" THICK ALUMINUM 6063-T5.



1" X 4" MULLION
ASTM A36



ONE-WAY MULLION DIAGRAMS



TWO-WAY MULLION DIAGRAMS

$$\text{TRIBUTARY WIDTH(W)} = \frac{W1 + W2}{2}$$



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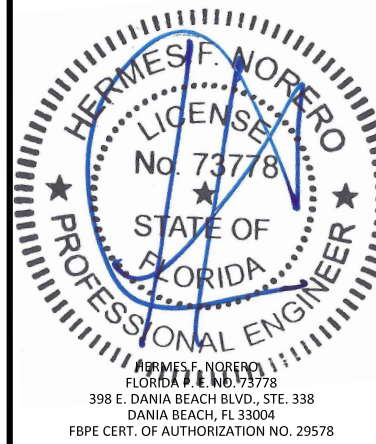
TITLE: STEEL TUBE MULLION (IMPACT)(WZ3)
1"X 4" STEEL MULLION ONE WAY & TWO WAY

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DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 5" - ONE-WAY MULLIONS(WOOD, CONCRETE AND METAL SUBSTRATES)

L - Mull Length (in)	W - Tributary Width (in)								
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
96.0	100.0	100.0	100.0	100.0	100.0	99.3	91.9	86.3	82.0
108.0	100.0	100.0	100.0	95.1	84.6	76.6	70.4	65.6	61.8
120.0	100.0	100.0	84.5	73.4	65.2	59.0	54.2	50.3	47.3
132.0	92.9	74.9	63.1	54.7	48.4	43.7	40.0	37.0	34.6
144.0	71.4	57.5	48.3	41.8	37.0	33.3	30.4	28.0	26.1
156.0	56.1	45.1	37.9	32.7	28.9	26.0	23.6	21.8	20.2

DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 5" - ONE-WAY MULLIONS (CMU SUBSTRATE)

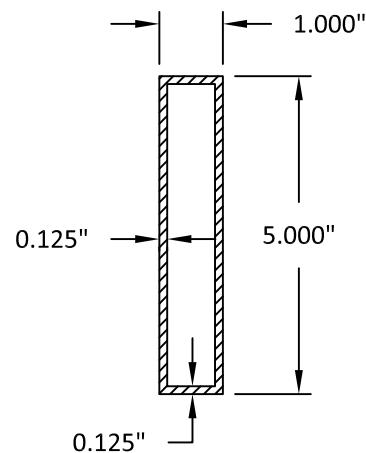
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36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.4	94.9
84.0	100.0	100.0	100.0	90.3	83.0	77.7	73.8	71.0	69.2
96.0	100.0	98.4	85.1	75.9	69.2	64.2	60.4	57.5	55.3
108.0	100.0	85.7	73.8	65.4	59.3	54.7	51.1	48.3	46.1
120.0	92.2	75.9	65.1	57.5	51.9	47.6	44.3	41.6	39.5
132.0	83.0	68.1	58.2	51.3	46.1	42.2	39.1	36.6	34.6
144.0	71.4	57.5	48.3	41.8	37.0	33.3	30.4	28.0	26.1
156.0	56.1	45.1	37.9	32.7	28.9	26.0	23.6	21.8	20.2

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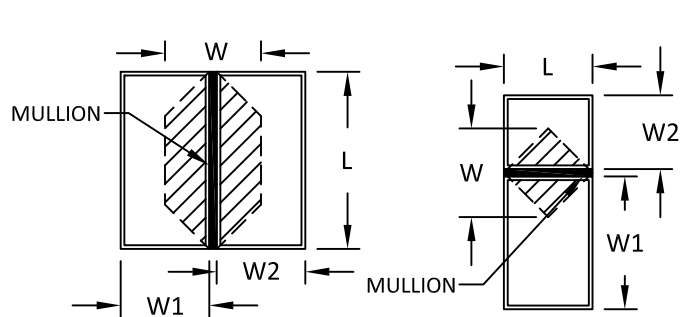
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48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.1	87.1
72.0	100.0	100.0	100.0	100.0	100.0	96.8	87.1	79.2	72.6
84.0	100.0	100.0	100.0	100.0	93.4	83.0	74.7	67.9	62.2
96.0	100.0	100.0	100.0	93.4	81.7	72.6	65.4	59.4	54.5
108.0	100.0	100.0	96.8	83.0	72.6	64.6	58.1	52.8	48.4
120.0	100.0	97.8	81.5	69.9	61.1	54.4	48.9	44.5	40.8
132.0	91.9	73.5	61.3	52.5	45.9	40.8	36.8	33.4	30.6
144.0	70.8	56.6	47.2	40.4	35.4	31.5	28.3	25.7	23.6
156.0	55.7	44.5	37.1	31.8	27.8	24.7	22.3	20.2	18.6

DESIGN PRESSURE LIMITS (PSF) FOR MULLION: 1" x 5" - TWO-WAY MULLIONS (CMU SUBSTRATE)

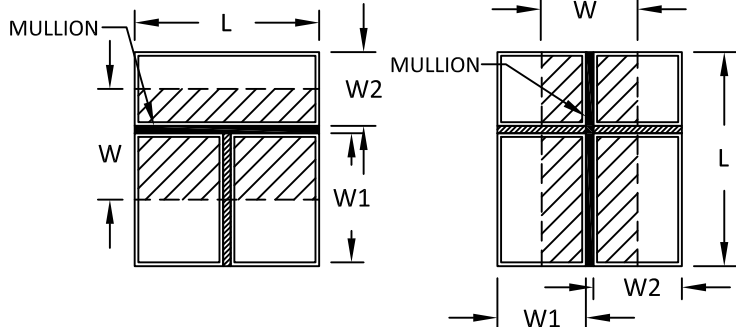
L - Mull Length (in)	W - Tributary Width (in)								
	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.4
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.4	85.0
60.0	100.0	100.0	100.0	97.1	85.0	75.6	68.0	61.8	56.7
72.0	100.0	100.0	94.4	81.0	70.8	63.0	56.7	51.5	47.2
84.0	100.0	97.1	81.0	69.4	60.7	54.0	48.6	44.2	40.5
96.0	100.0	85.0	70.8	60.7	53.1	47.2	42.5	38.6	35.4
108.0	94.4	75.6	63.0	54.0	47.2	42.0	37.8	34.3	31.5
120.0	85.0	68.0	56.7	48.6	42.5	37.8	34.0	30.9	28.3
132.0	77.3	61.8	51.5	44.2	38.6	34.3	30.9	28.1	25.8
144.0	70.8	56.6	47.2	40.4	35.4	31.5	28.3	25.7	23.6
156.0	55.7	44.5	37.1	31.8	27.8	24.7	22.3	20.2	18.6



**1" X 5" MULLION
ASTM A36**



ONE-WAY MULLION DIAGRAMS



TWO-WAY MULLION DIAGRAMS

$$\text{TRIBUTARY WIDTH(W)} = \frac{W1 + W2}{2}$$

TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 2 AND 4 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- LINEAR INTERPOLATION BETWEEN LISTED WIDTHS AND SPANS IS ALLOWED.
- SEE THIS SHEET FOR SPECIFIC MULLION DIMENSIONS.
- SEE SHEET 2 FOR SPECIFIC CLIP DIMENSIONS.
- ANCHOR REQUIREMENTS:
 - WOOD: #14 WOOD SCREWS
 - CMU: 1/4" ITW TAPCONS
 - CONCRETE: 1/4" ITW TAPCONS
 - METAL: #12 SELF-DRILLING SCREWS (GRADE 5)
- INSTALLATION SUBSTRATES:
 - WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-1/2" & EDGE DISTANCE OF 1". WOOD SHALL BE MIN. S.G.=0.55.
 - HOLLOW CMU ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1.00", EDGE DISTANCE OF 4.00" & MIN ON CENTER SPACING OF 2.00". HOLLOW CMU SHALL BE MEDIUM WEIGHT CONFORMING TO ASTM C 90.
 - CONCRETE ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1-3/4" EDGE DISTANCE OF 3.00" & MIN ON CENTER SPACING OF 2.00". CONCRETE SHALL BE MIN. 3000 PSI.
 - METAL ANCHORS SHALL HAVE A MIN. (3) THREADS PENETRATION BEYOND METAL STRUCTURE. STEEL SHALL BE MIN. 18 GA. (0.045" THICK) 33 KSI YIELD. ALUMINUM SHALL BE MIN. 1/8" THICK ALUMINUM 6063-T5.



Palm City IRONWORKS
PALM CITY IRONWORKS
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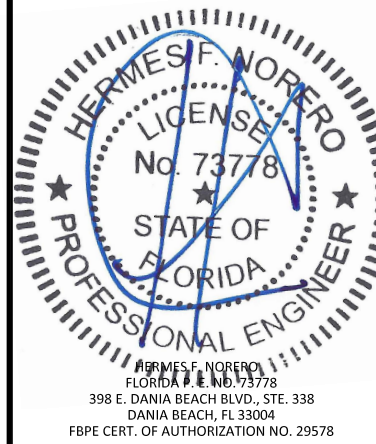
TITLE: STEEL TUBE MULLION (IMPACT)(WZ3)
1"X 5" STEEL MULLION ONE WAY & TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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 LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT

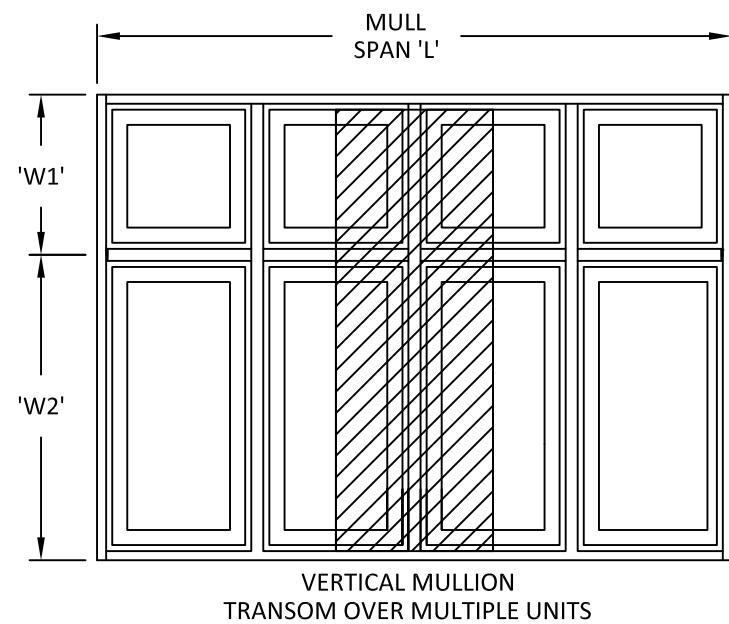
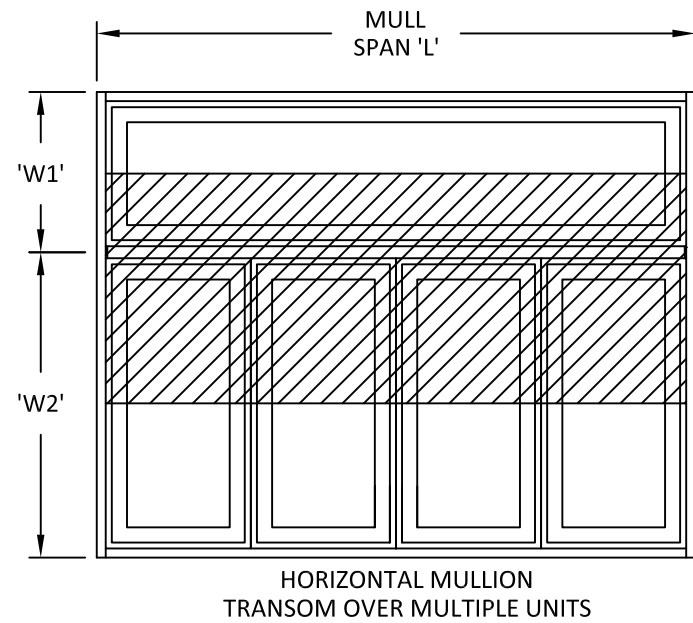


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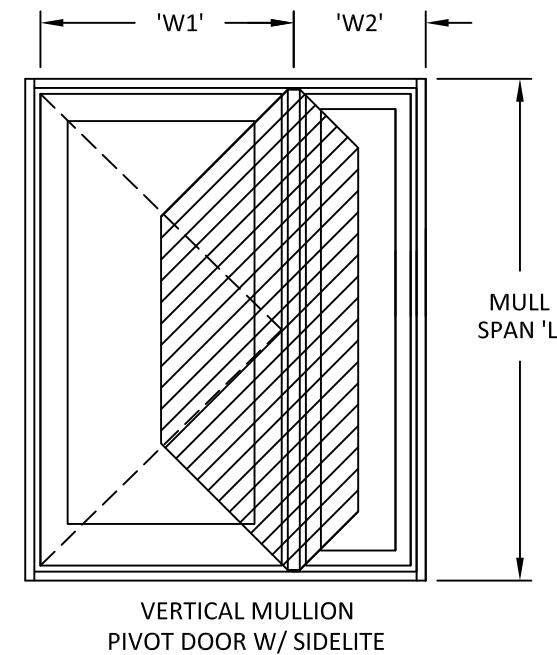
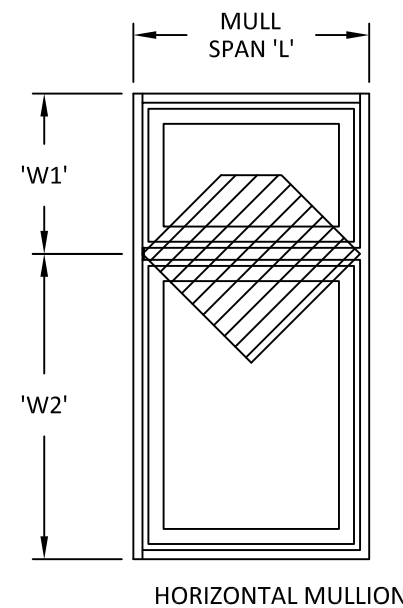
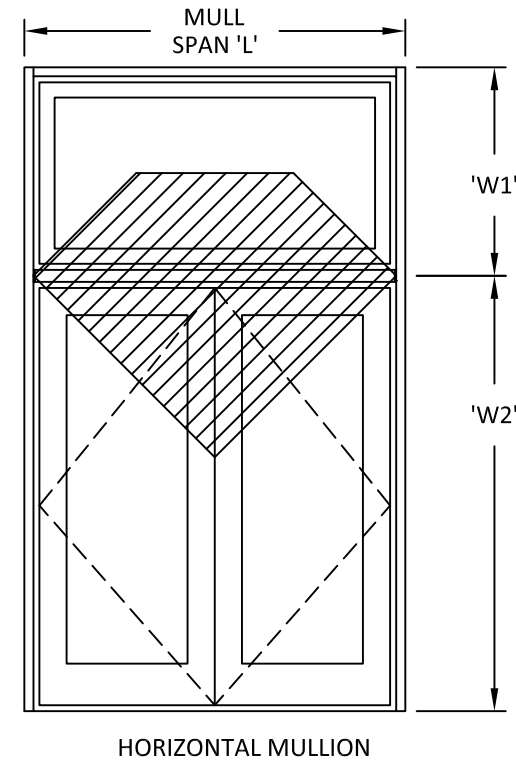
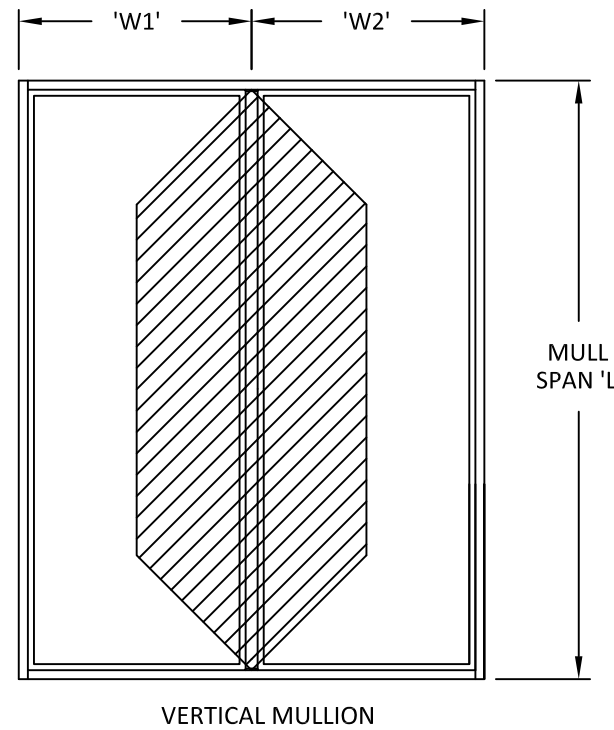
DATE: 05.05.20	
DWG. BY: YC	CHK. BY: HFN
SCALE: NTS	
DWG. #: PCI012	
SHEET:	

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EXAMPLES OF TWO-WAY MULLION ASSEMBLIES



EXAMPLES OF ONE-WAY MULLION ASSEMBLIES



- NOTES:**
1. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CONFIGURATIONS NOT SPECIFICALLY SHOWN MAY BE EXTRAPOLATED FROM THOSE SHOWN.
 2. IF THE LOADING TYPE CANNOT BE DETERMINED, USE TWO-WAY ASSEMBLY CONFIGURATION VALUES.
 3. FENESTRATION PRODUCTS SHALL BE ANCHORED AS PER SEPARATE APPROVAL.



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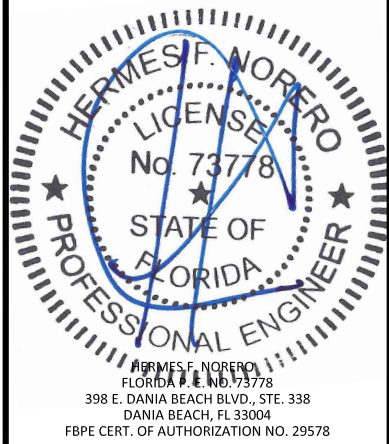
TITLE: STEEL TUBE MULLION
(IMPACT)(WZ3)
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