

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6. SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY NT WINDOW, INC.
7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR WINDOW AND TRANSOM HEIGHTS. FIND THE INTERSECTION OF THIS COLUMN AND ROW. MULLION RATING IS LOCATED AT THIS INTERSECTION.
4. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
5. IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20" HIGH THEN USE CHART FOR 24" TRANSOM.
6. WINDOW/DOOR AND TRANSOMS REQUIRE SEPARATE APPROVAL AND MUST BE ANCHORED ON ALL FOUR SIDES.

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

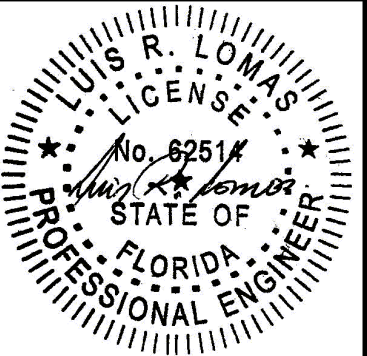
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	X MULLION
3 – 5	INSTALLATION DETAILS
6	COMPONENTS

ANCHORING NOTES:

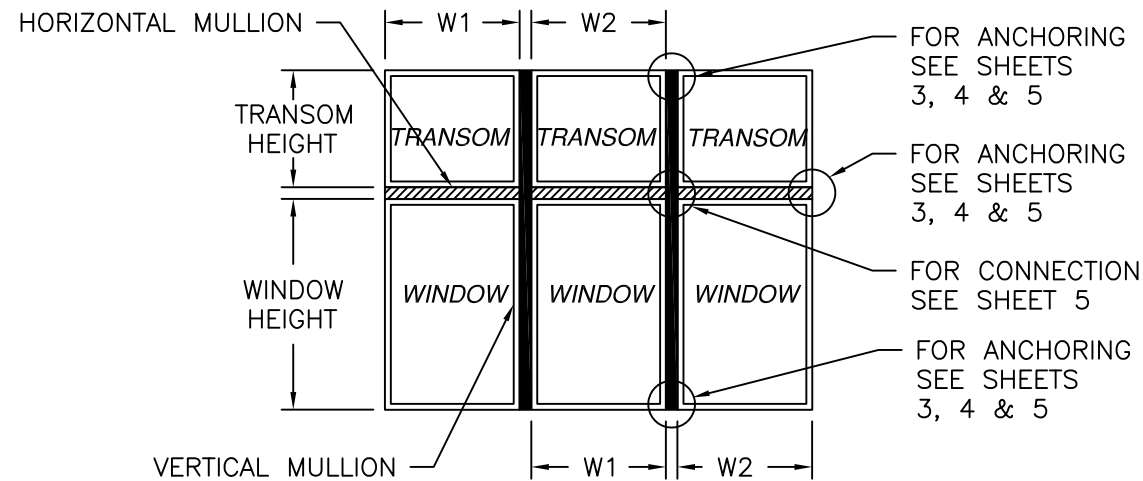
1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
2. FOR ANCHORING INTO CONCRETE USE 3/16" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT WITH 1 1/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
3. FOR ANCHORING INTO METAL FRAMING USE #10 SMS OR SELF DRILLING SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. FOR ANCHORING WINDOW OR DOOR UNITS TO BUILDING REFER TO WINDOW OR DOOR APPROVAL DOCUMENTATION.
5. ALL FASTENERS TO BE CORROSION RESISTANT.
6. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - 6.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 6.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 4,200 PSI.
 - 6.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 6.4. METAL – STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM.

NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 X MULLION IMPACT NOTES		
DRAWN: A.R.	DWG NO. 08-04164	REV -
SCALE NTS	DATE 07/02/2025	SHEET 1 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 07/24/2025



Luis R. Lomas P.E.
FL No.: 62514



UNITS MAY BE MULLED INDEFINITELY

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

Rating chart #1 (psf) Units with 18" transom								
Height (in)		Tributary width (in)						
Window	Transom	21.00	24.00	30.00	36.00	42.00	48.00	54.00
36.00	18.00	150.0	150.0	126.0	109.6	97.6	88.0	80.1
42.00	18.00	133.0	118.8	98.9	85.8	76.7	69.7	63.9
48.00	18.00	99.1	88.3	73.3	63.6	56.8	51.9	48.0
54.00	18.00	74.4	66.3	55.0	47.6	42.4	38.7	35.9
60.00	18.00	57.2	50.9	42.2	36.4	32.4	29.5	27.3
66.00	18.00	44.9	39.9	33.0	28.5	25.3	23.0	21.2
72.00	18.00	35.8	31.8	26.3	22.6	20.1	18.2	16.8
78.00	18.00	29.0	25.8	21.2	18.2	16.2	-	-
84.00	18.00	23.8	21.1	17.4	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3

Rating chart #2 (psf) Units with 24" transom								
Height (in)		Tributary width (in)						
Window	Transom	21.00	24.00	30.00	36.00	42.00	48.00	54.00
36.00	24.00	137.0	122.2	101.6	87.7	77.5	69.5	62.9
42.00	24.00	103.5	91.9	75.8	65.1	57.5	51.8	47.0
48.00	24.00	78.1	69.3	57.1	49.0	43.3	39.1	35.8
54.00	24.00	60.1	53.4	43.9	37.7	33.3	30.0	27.6
60.00	24.00	47.2	41.9	34.4	29.5	26.0	23.5	21.5
66.00	24.00	37.7	33.4	27.4	23.5	20.7	18.7	17.1
72.00	24.00	30.5	27.0	22.2	19.0	16.7	15.1	-
78.00	24.00	25.0	22.2	18.2	15.5	-	-	-
84.00	24.00	20.8	18.4	15.1	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3

Rating chart #3 (psf) Units with 30" transom								
Height (in)		Tributary width (in)						
Window	Transom	21.00	24.00	30.00	36.00	42.00	48.00	54.00
36.00	30.00	105.8	93.8	77.1	66.0	57.9	51.5	46.4
42.00	30.00	80.3	71.2	58.4	49.9	43.9	39.2	35.5
48.00	30.00	62.2	55.1	45.2	38.6	33.9	30.4	27.6
54.00	30.00	49.0	43.4	35.5	30.3	26.6	23.9	21.7
60.00	30.00	39.2	34.7	28.4	24.2	21.2	19.0	17.3
66.00	30.00	31.8	28.1	23.0	19.6	17.2	15.4	-
72.00	30.00	26.1	23.1	18.9	16.1	-	-	-
78.00	30.00	21.6	19.1	15.6	-	-	-	-
84.00	30.00	18.1	16.0	-	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3

Rating chart #4 (psf) Units with 36" transom								
Height (in)		Tributary width (in)						
Window	Transom	21.00	24.00	30.00	36.00	42.00	48.00	54.00
36.00	36.00	80.9	71.7	58.8	50.3	44.1	39.2	35.3
42.00	36.00	63.2	55.9	45.8	39.0	34.2	30.5	27.6
48.00	36.00	50.1	44.3	36.2	30.8	27.0	24.1	21.8
54.00	36.00	40.2	35.6	29.0	24.7	21.6	19.3	17.5
60.00	36.00	32.7	28.9	23.6	20.1	17.5	15.7	-
66.00	36.00	26.9	23.8	19.4	16.5	-	-	-
72.00	36.00	22.4	19.8	16.1	-	-	-	-
78.00	36.00	18.8	16.6	-	-	-	-	-
84.00	36.00	15.9	-	-	-	-	-	-

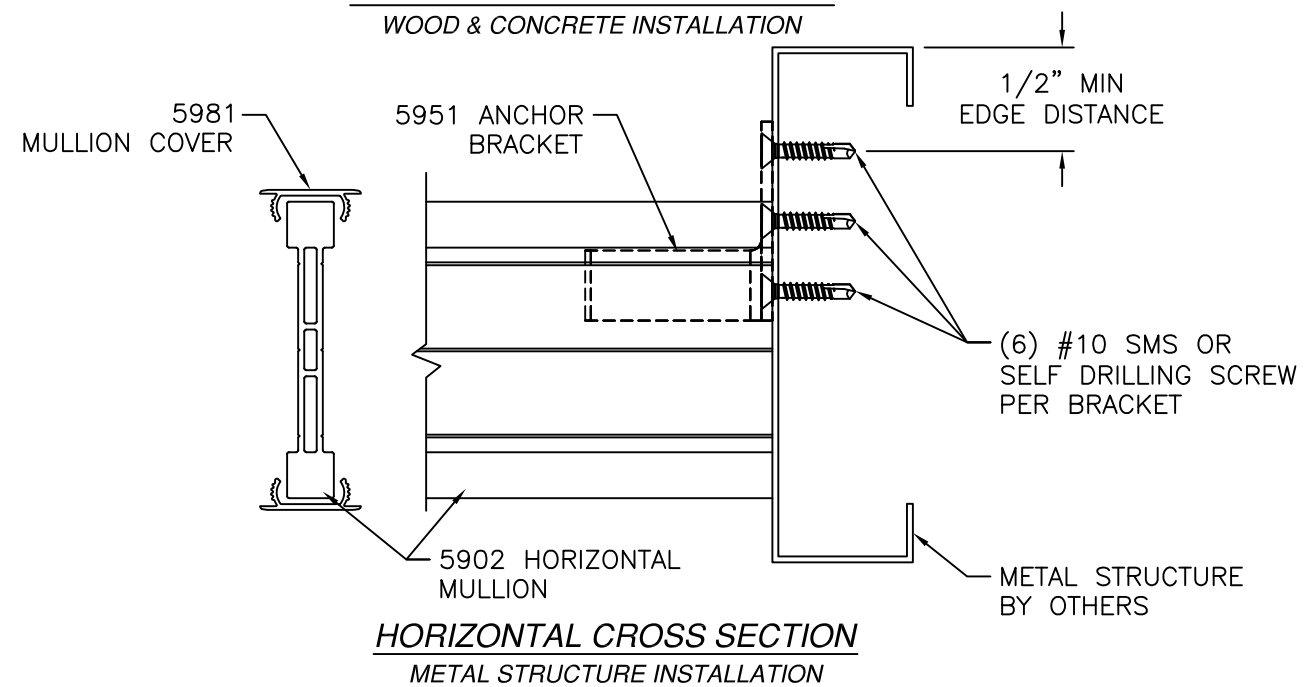
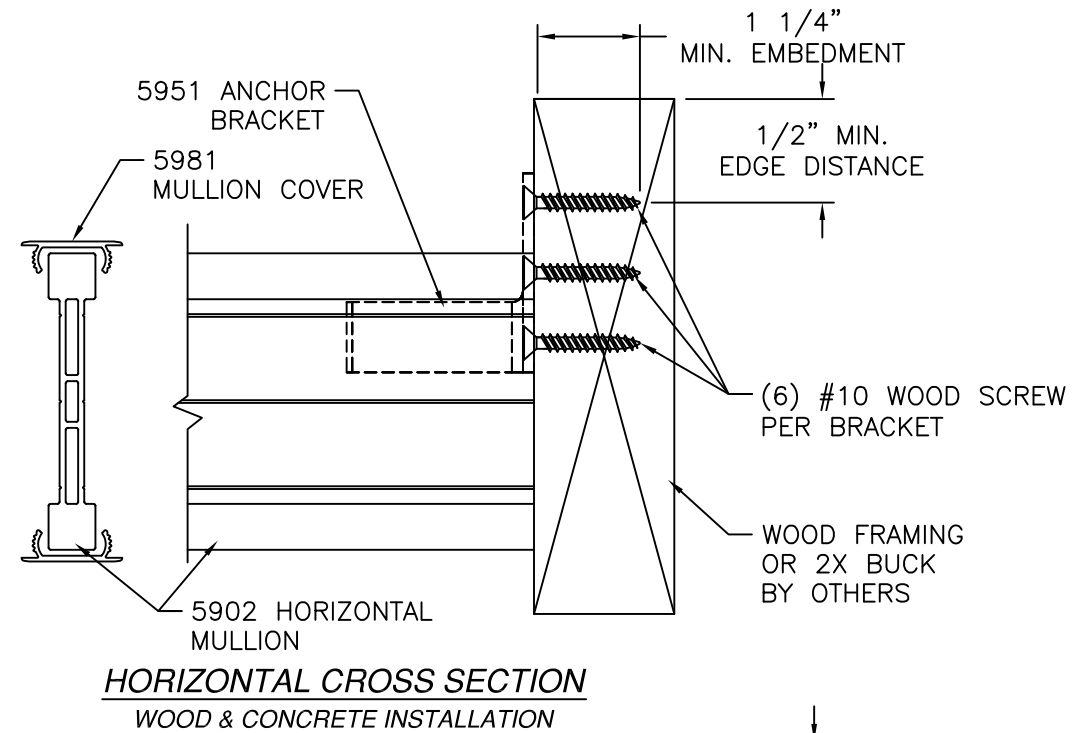
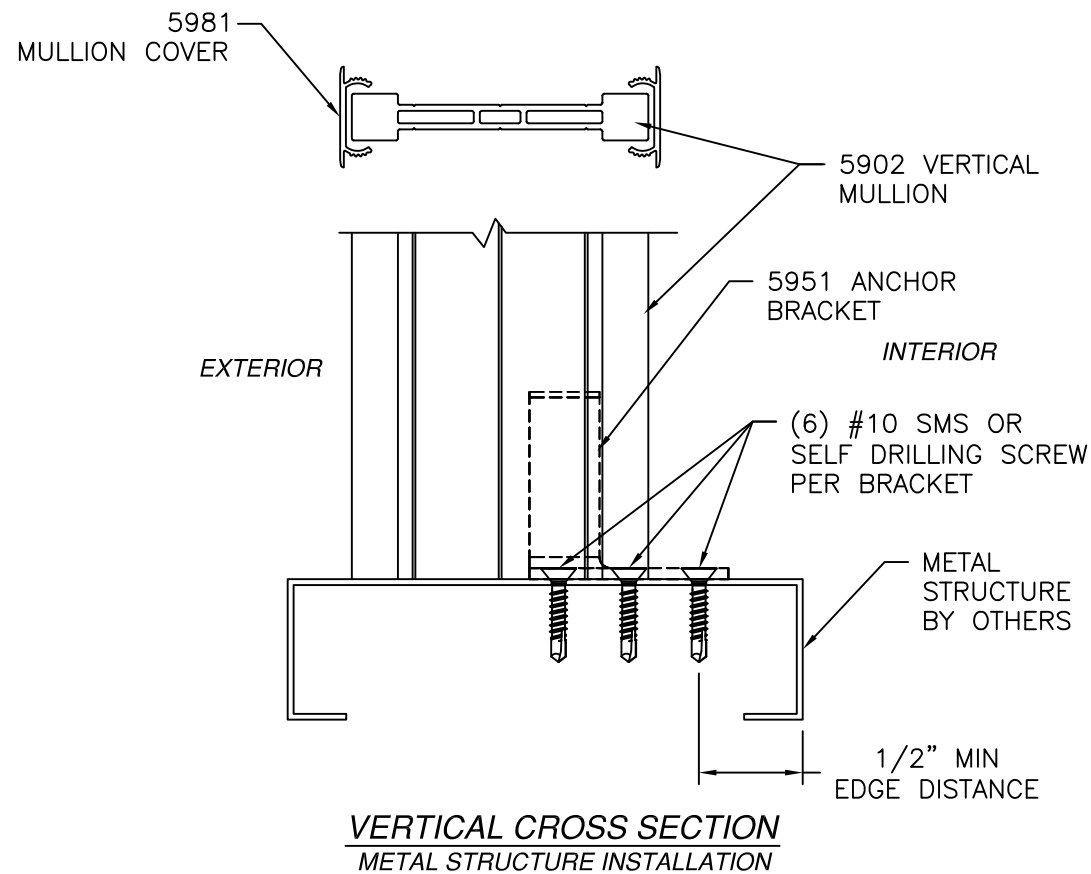
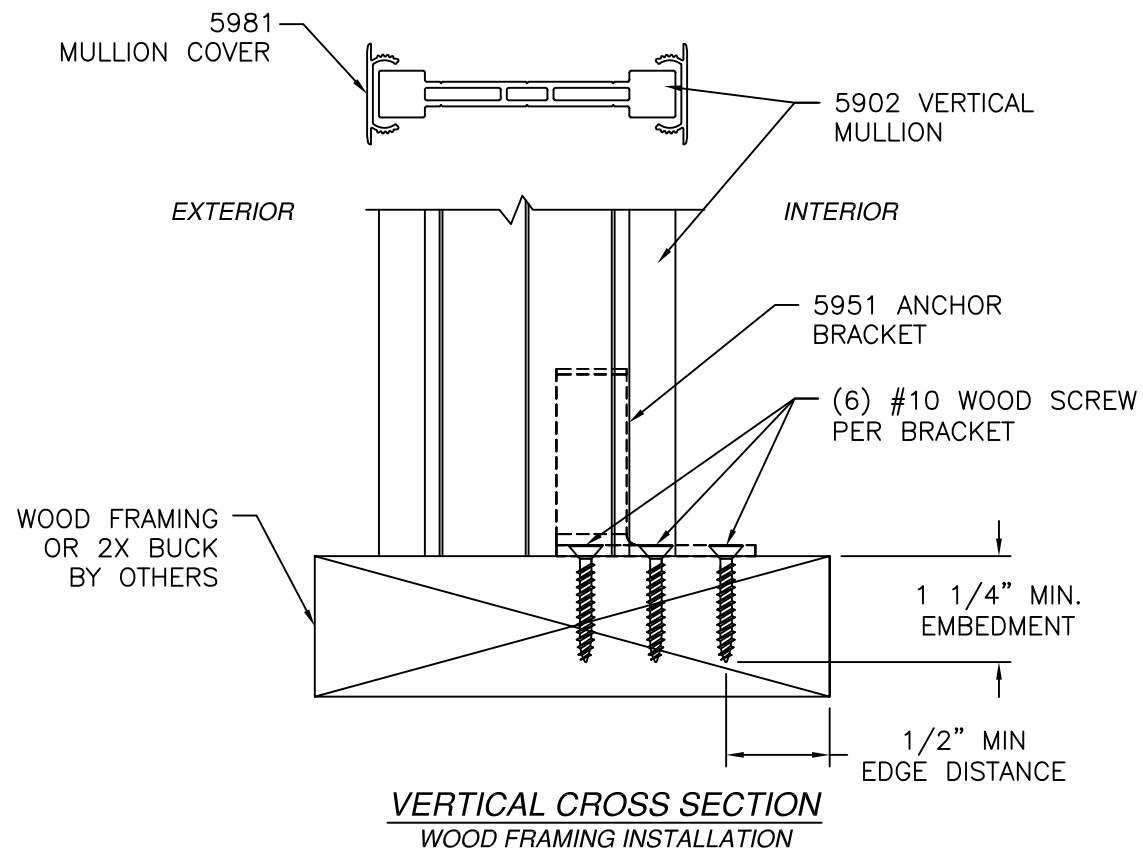
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NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 X MULLION IMPACT ELEVATION AND CHARTS		
DRAWN: A.R.	DWG NO. 08-04164	REV -
SCALE NTS	DATE 07/02/2025	SHEET 2 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

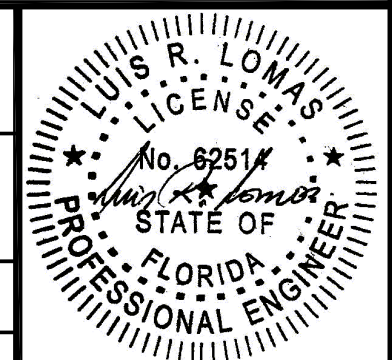
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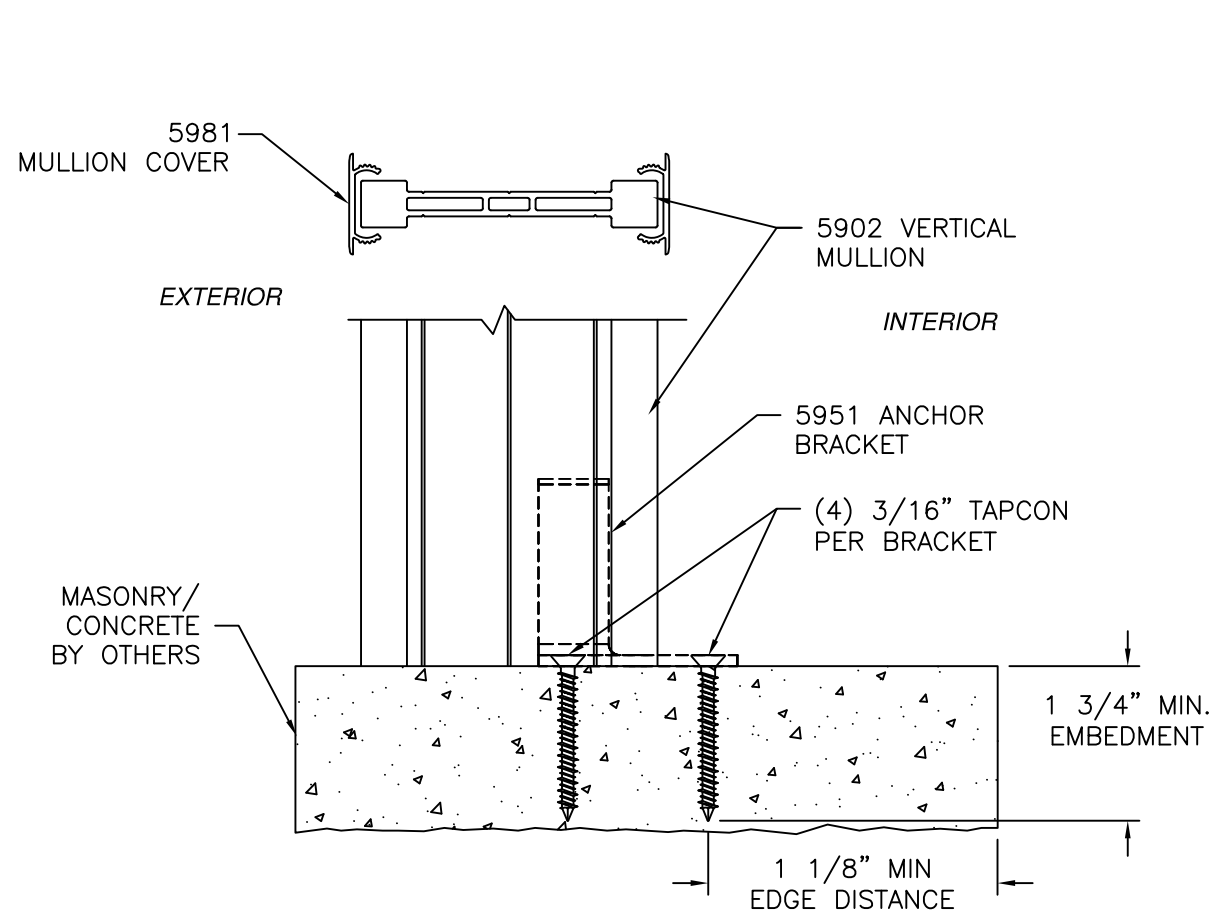
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NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 X MULLION IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04164	REV -
SCALE NTS	DATE 07/02/2025	SHEET 3 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

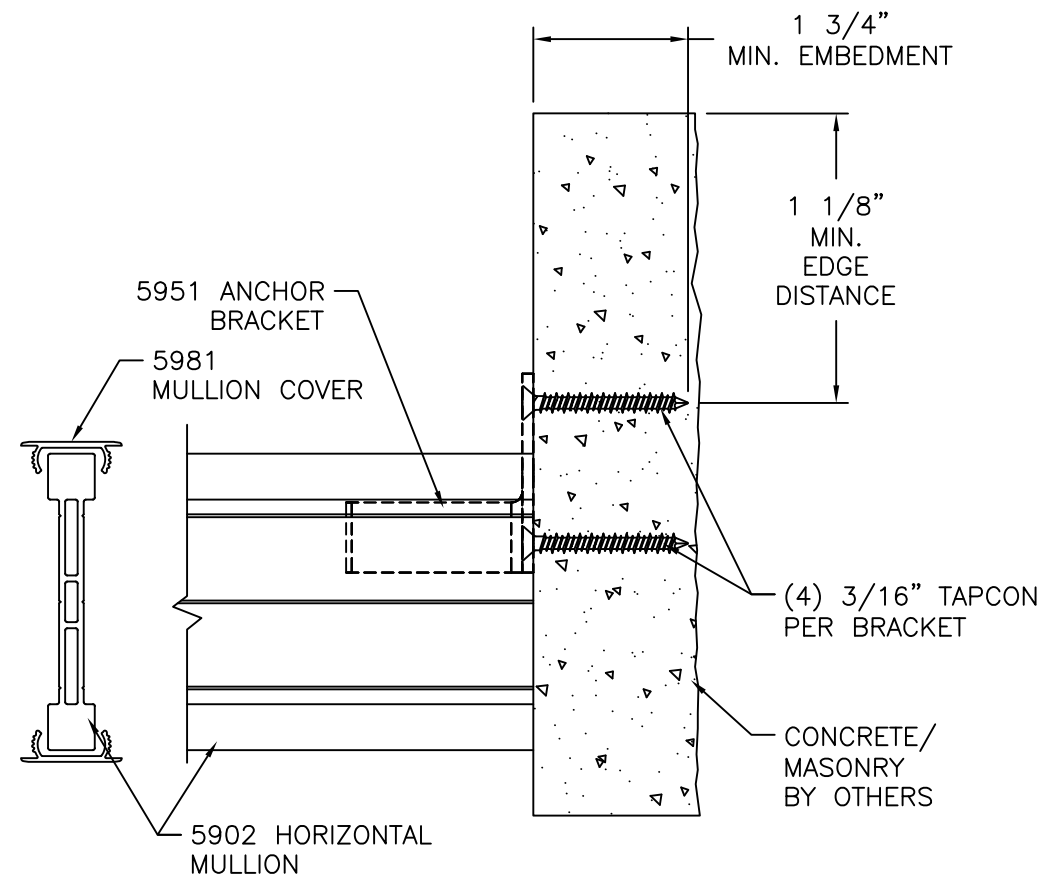


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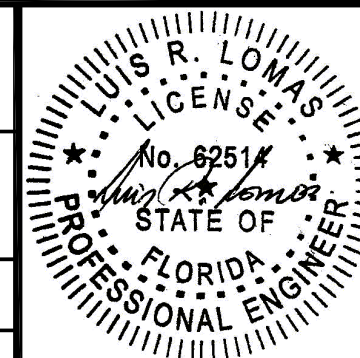
VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



HORIZONTAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

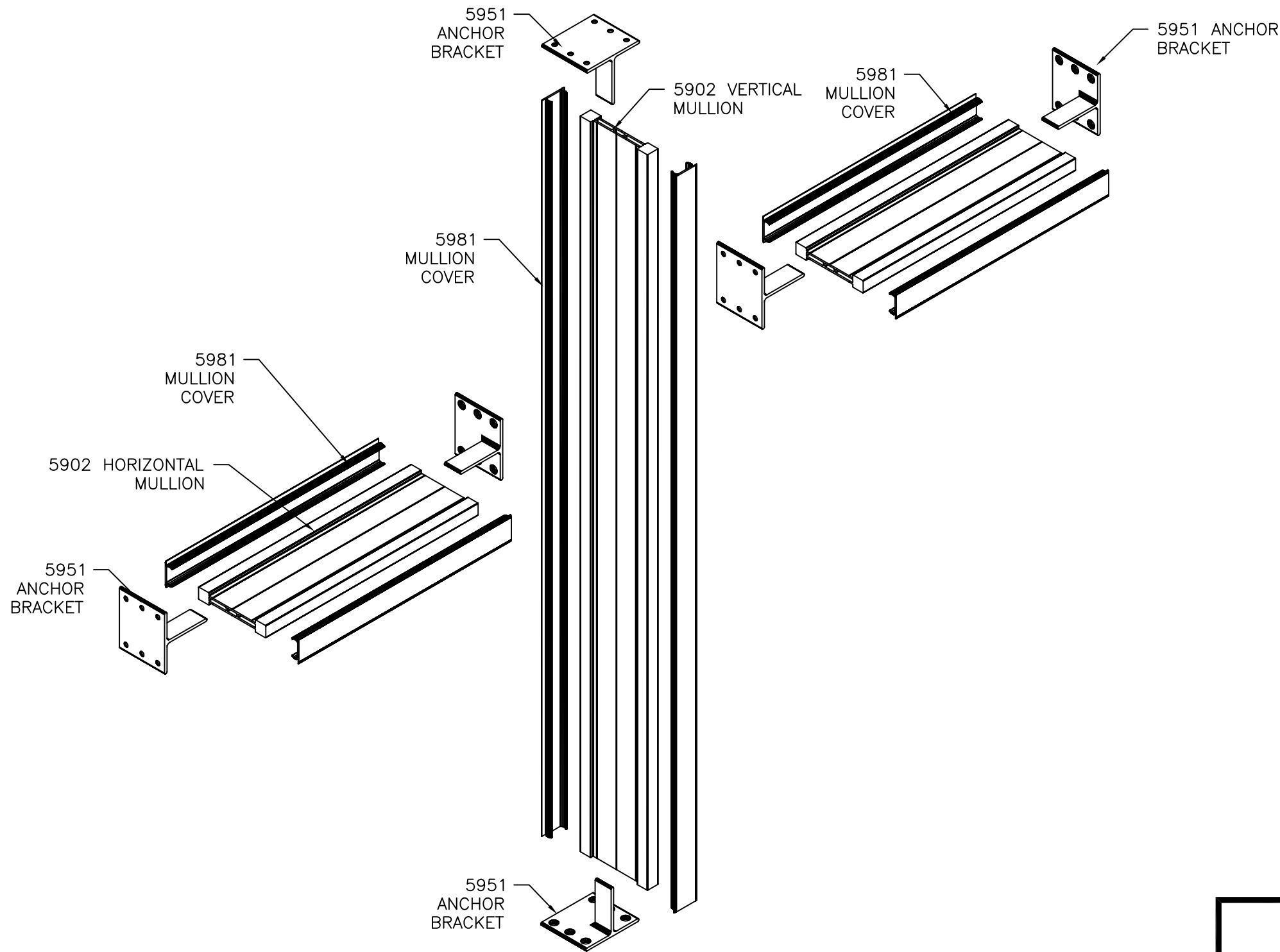
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5902 X MULLION IMPACT INSTALLATION DETAILS		
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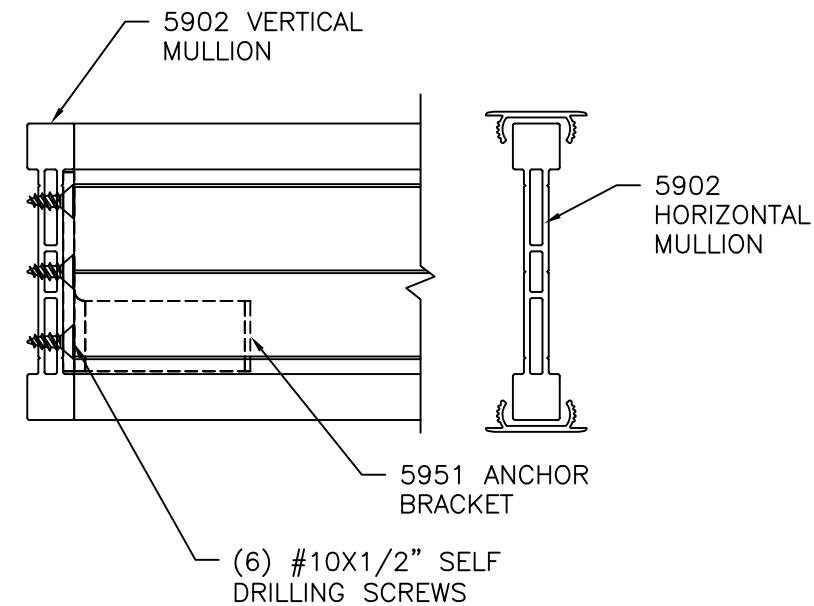


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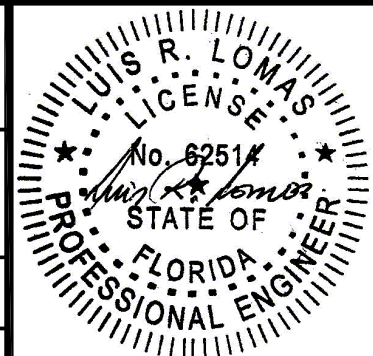
HORIZONTAL TO VERTICAL MULLIONS
INSTALLATION



HORIZONTAL TO VERTICAL MULLION
CONNECTION

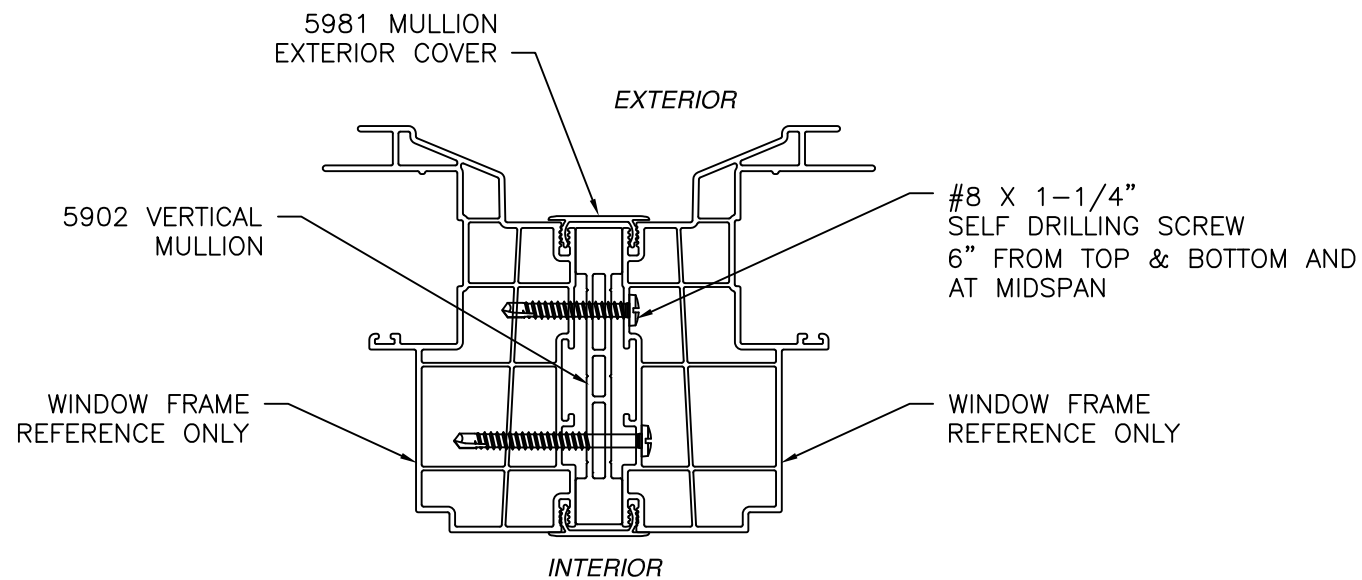
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NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 X MULLION IMPACT HORIZONTAL AND VERTICAL CONNECTIONS		
DRAWN: A.R.	DWG NO. 08-04164	REV -
SCALE NTS	DATE 07/02/2025	SHEET 5 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

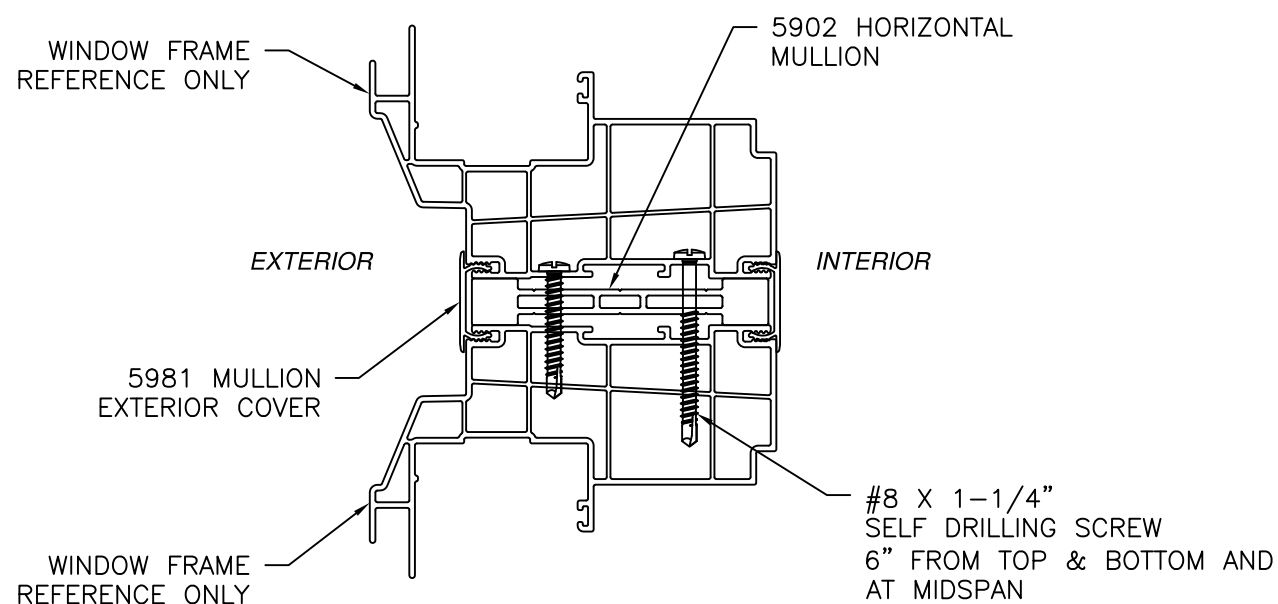
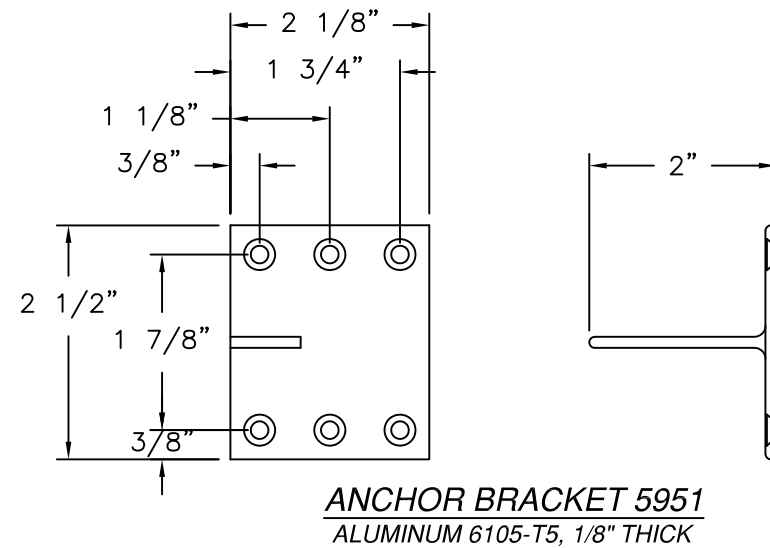


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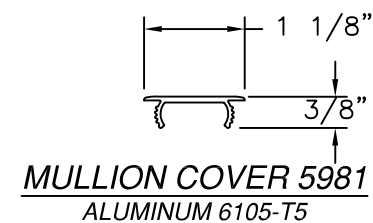
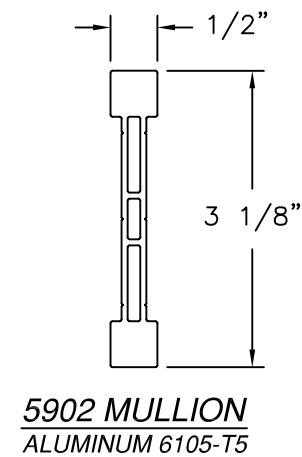
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WINDOW & VERTICAL MULLION CONNECTION

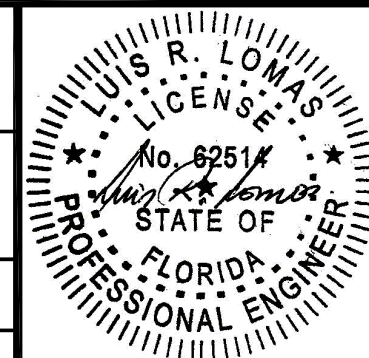


WINDOW & HORIZONTAL MULLION CONNECTION



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NT WINDOW, INC. 2900 WEST SEMINARY DR. FORT WORTH, TX 76133		
5902 X MULLION IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-04164	REV -
SCALE NTS	DATE 07/02/2025	SHEET 6 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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