

KOMMERLING USA, INC.

DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIXED MULL POST
DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIELD MULL POST
VINYL NON-IMPACT (O/XX)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO AAMA/WDMA/CSA 101/I.S.2/A440-11 DOCUMENTED IN THE FOLLOWING TEST REPORTS:

1.1. TEST REPORT NO. NCTL-210-4176-4, DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIXED MULL POST.

1.2. TEST REPORT NO. NCTL-210-4176-5, DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIELD MULL POST.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE, MASONRY AND 2X 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 OF INSTALLATION.
3. 1X BUCK OVER MASONRY AND/OR CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF THE INSTALLATION METHODS DEVIATE FROM THESE APPROVED DETAILS THIS WOULD REQUIRE FURTHER INVESTIGATION BY A LICENSED OR REGISTERED DESIGN PROFESSIONAL.
5. ALL SETTING BLOCKS AND GASKET MATERIALS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER.
6. IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS SHALL BE REQ'D.
7. MATERIALS:

FRAME: RIGID PVC / VINYL
8. GLAZING:

8.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.

8.2. SEE GLAZING DETAILS ON SHEET 8 OF 10.

8.3. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.
9. PANEL OPERABILITY DESIGNATIONS:

9.1. WINDOW IS AN OPERABLE PANEL (X).

9.2. WINDOW IS A STATIONARY PANEL (O).

ANCHOR NOTES:

1. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM, SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
2. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" DIA. ADVANCED THREADFORM TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE THE FOLLOWING:

2.1. CONCRETE: 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-1/8" MINIMUM EDGE DISTANCE.

2.2. CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE.
3. FOR ANCHORING INSTALLATION CLIP INTO WOOD FRAMING OR 2 BY BUCK USE #14 WOOD SCREWS (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE.
4. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2 BY BUCK USE #14 WOOD SCREWS (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

7.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 (NON-HVHZ).

7.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

7.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).

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KOMMERLING USA, INC.
3415–A STANWOOD BLVD. N.E.
HUNTSVILLE, AL 35811

SERIES 76MD TILT–TURN WINDOW
MULLED ASSEMBLIES VINYL NON–IMPACT
GENERAL NOTES

DRAWN:
JRM

DWG NO.
NL–0138

REV
–

SCALE
NTS

DATE
05/26/2020

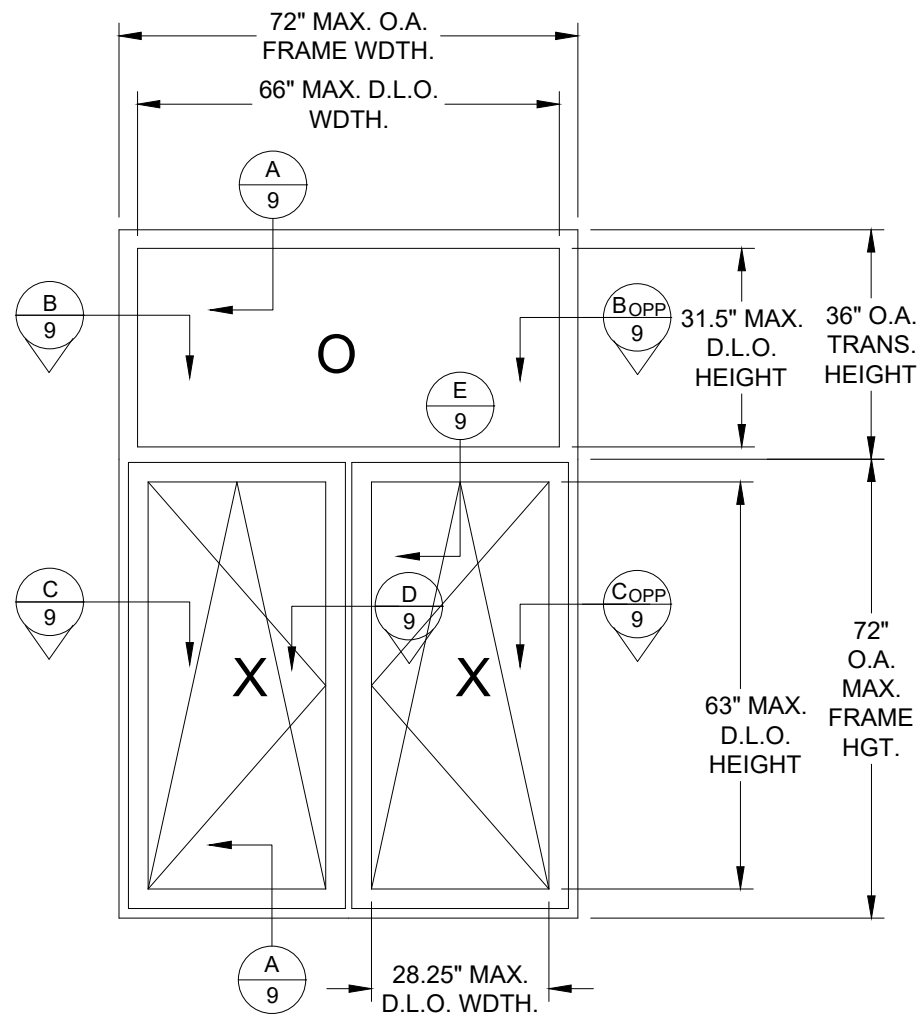
SHEET
1 OF 10

ROBERT J. AMORUSO
FL. P.E. NO. 49752

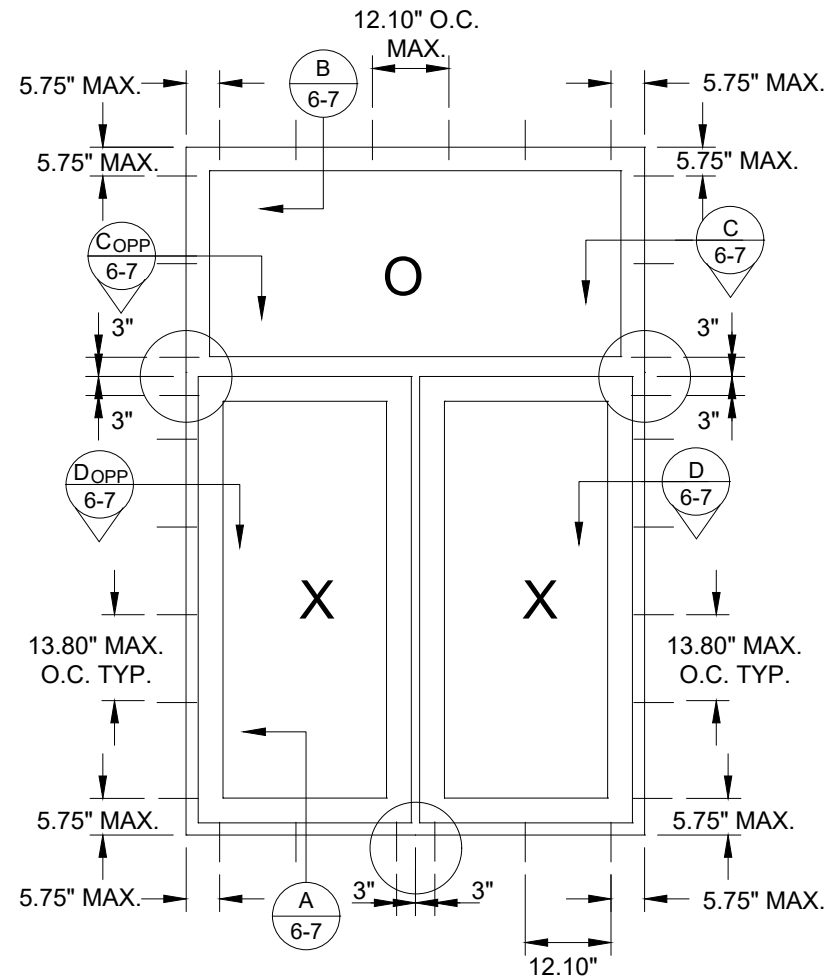
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DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIXED MULL POST

REVISIONS			
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ELEVATION LAYOUT
DOUBLE HADKZ TILT-TURN WINDOW
WITH TRANSOM & FIXED MULL POST



ANCHOR LAYOUT
FRAME INSTALLATION

DESIGN PRESSURE RATING (PSF)				
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	PRODUCT RATING RATING (AAMA)	IMPACT RATING
72" X 108"	+ - (30.0 PSF)	O/XX	CW-PG30	NONE
72" X 108"	+ - (50.0 PSF)	O/XX	LC-PG50	NONE
SEE GLAZING DETAIL ON SHT. 8				
RATING BASED ON TEST REPORT NO. NCTL-210-4176-4, DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIXED MULL POST. 72" x 108" O/XX TESTED.				

MAXIMUM SIZES (IN)	
FRAME	72 X 108
PANEL	34.375 X 69
D.L.O	28.25 X 63
FXD. PANEL	72 X 36
FXD. D.L.O	66 X 31.50

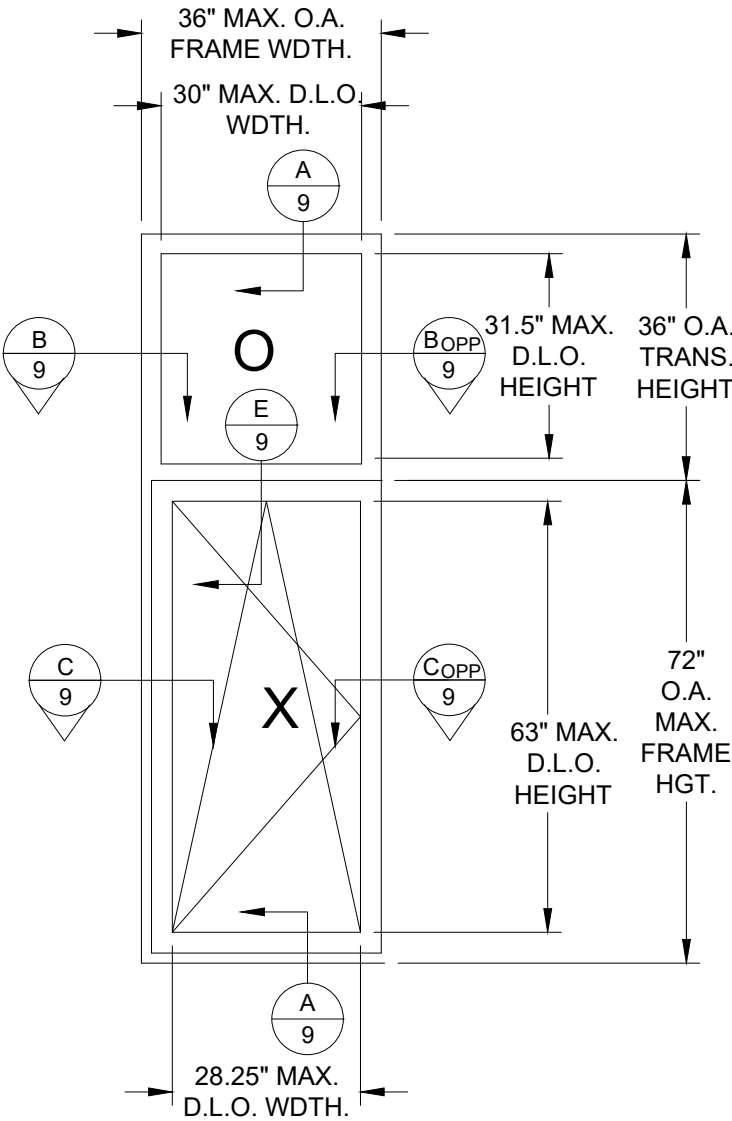
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SERIES 76MD TILT-TURN WINDOW MULLED ASSEMBLIES VINYL NON-IMPACT ELEVATION & ANCHOR LAYOUT		
DRAWN: JRM	DWG NO. NL-0138	REV -
SCALE NTS	DATE 05/26/2020	SHEET 2 OF 10

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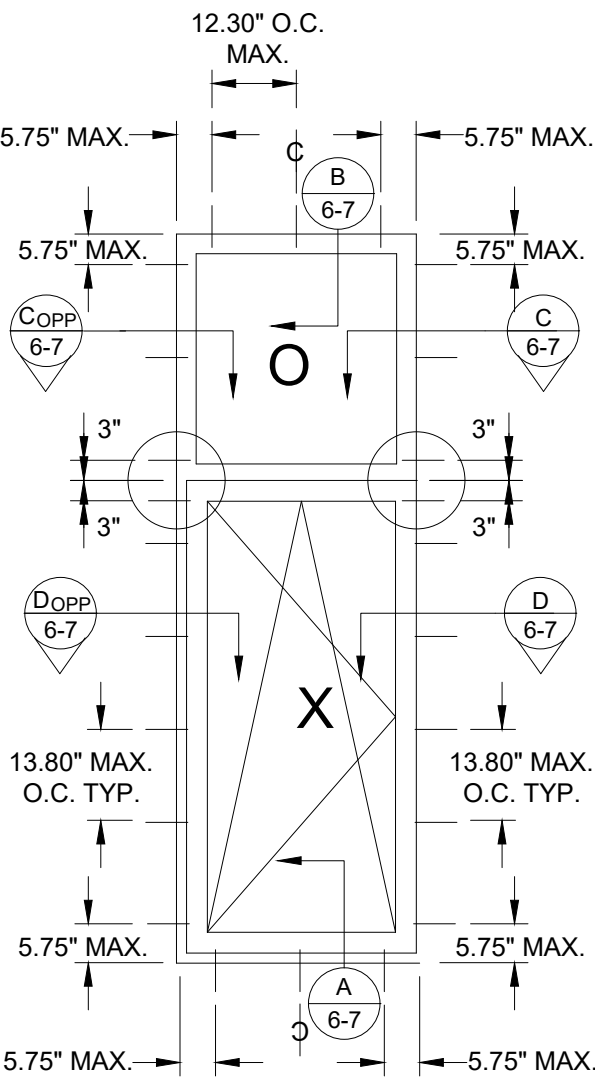
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SINGLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIXED MULL POST

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



ELEVATION LAYOUT
SINGLE HADKZ TILT-TURN WINDOW
WITH TRANSOM & FIXED MULL POST



ANCHOR LAYOUT
FRAME INSTALLATION

DESIGN PRESSURE RATING (PSF)				
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	PRODUCT RATING (AAMA)	IMPACT RATING
36" X 108"	+ - (30.0 PSF)	O/X	CW-PG30	NONE
36" X 108"	+ - (50.0 PSF)	O/X	LC-PG50	NONE
SEE GLAZING DETAIL ON SHT. 8				
RATING BASED ON TEST REPORT NO. NCTL-210-4176-4, DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIXED MULL POST. 72" x 108" O/XX TESTED. 36" x 108" O/X ENVELOPED.				

MAXIMUM SIZES (IN)	
FRAME	36 X 108
PANEL	34.375 X 69
D.L.O	28.25 X 63
FXD. PANEL	36 X 36
FXD. D.L.O	30 X 31.50

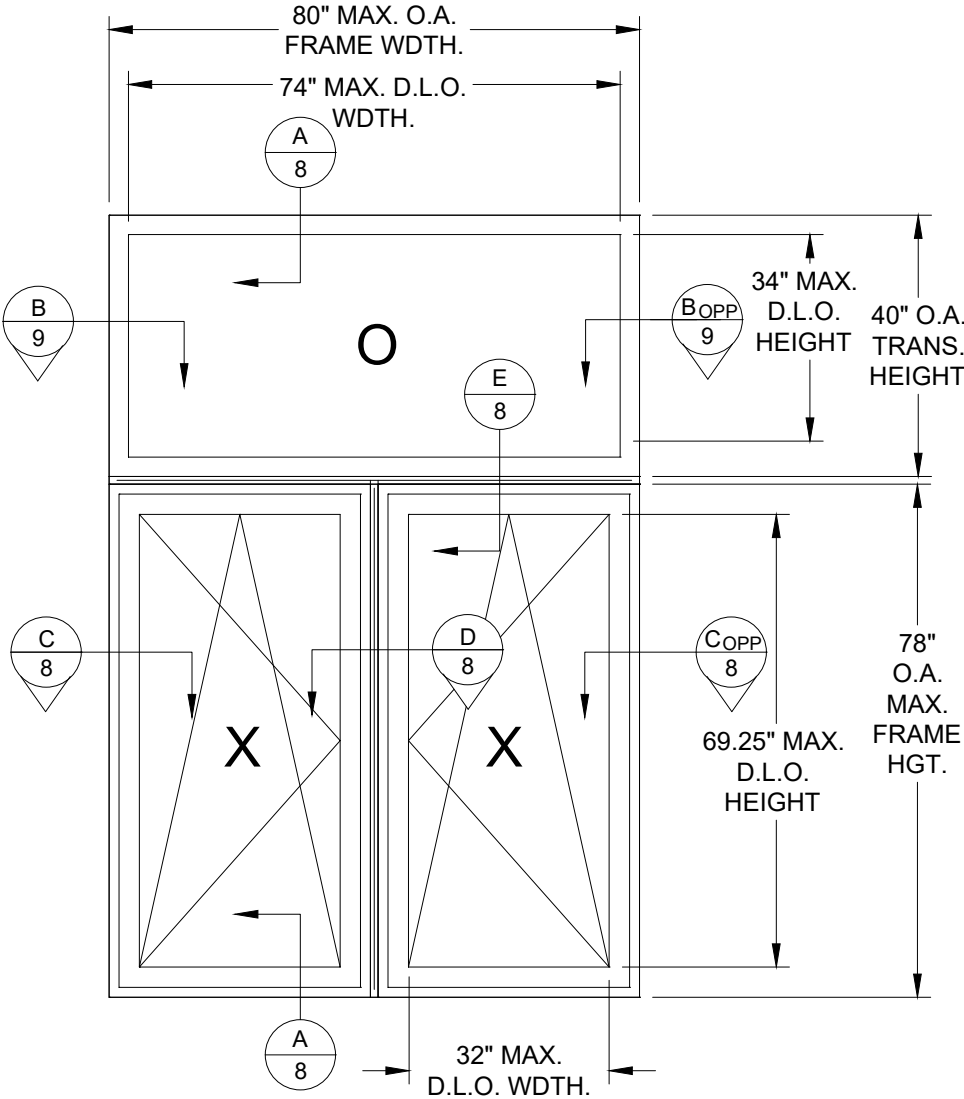
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DRAWN: JRM	DWG NO. NL-0138	REV -
SCALE NTS	DATE 05/26/2020	SHEET 3 OF 10

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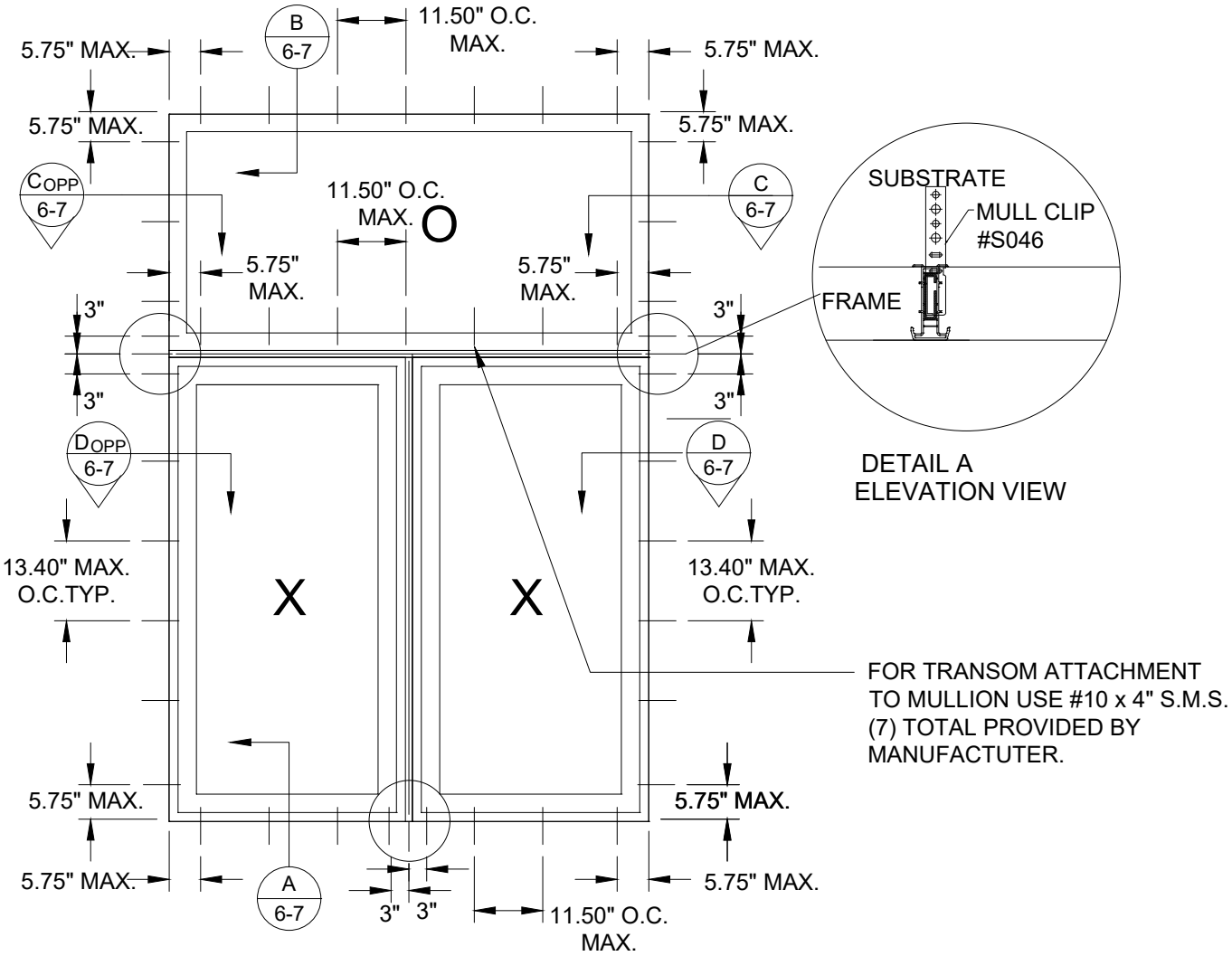
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ELEVATION LAYOUT
DOUBLE HADKZ TILT-TURN WINDOW
WITH TRANSOM AND FIELD MULL POST



ANCHOR LAYOUT
FRAME INSTALLATION

DESIGN PRESSURE RATING (PSF)				
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	PRODUCT RATING RATING (AAMA)	IMPACT RATING
80" X 118"	+ - (30.0 PSF)	O/XX	CW-PG30	NONE
80" X 118"	+ - (50.0 PSF)	O/XX	LC-PG50	NONE
SEE GLAZING DETAIL ON SHT. 8				
RATING BASED ON TEST REPORT NO. NCTL-210-4176-5, DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIELD MULL POST. 80" x 118" O/XX TESTED.				

MAXIMUM SIZES (IN)	
FRAME	80 X 118
PANEL	38 X 75
D.L.O	32 X 69.25
FXD. PANEL	80 X 40
FXD. D.L.O	74 X 34

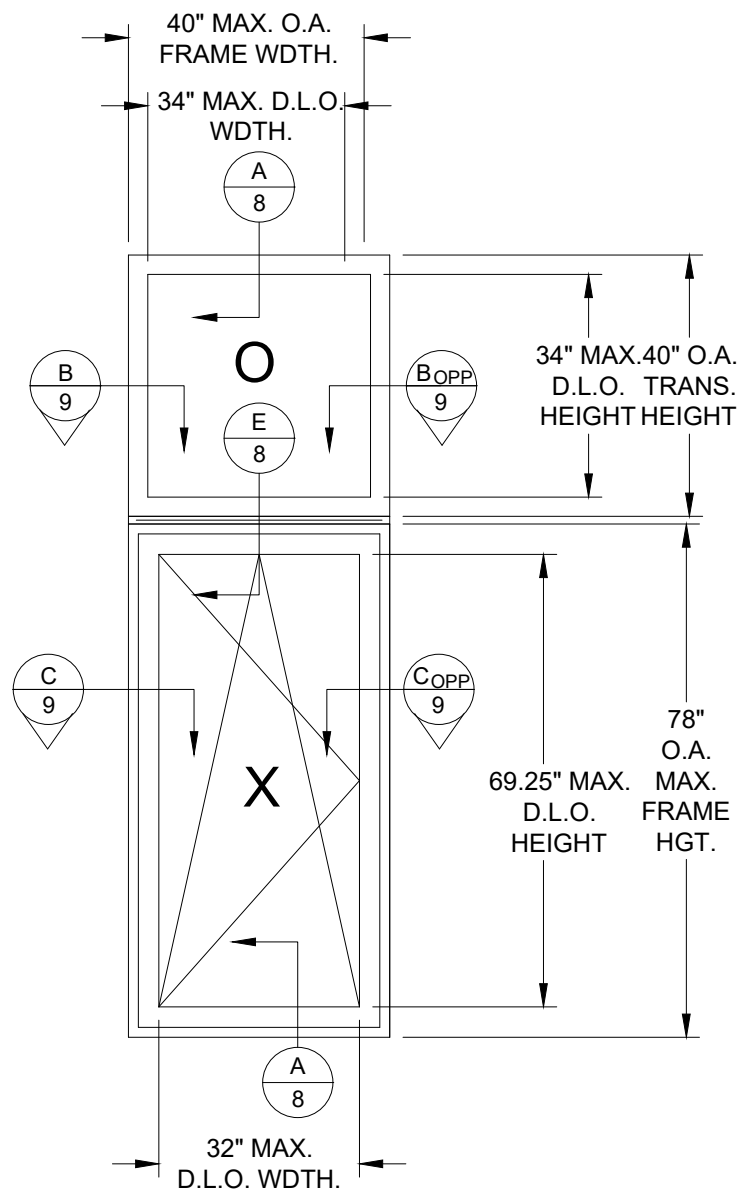
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SERIES 76MD TILT-TURN WINDOW MULLED ASSEMBLIES VINYL NON-IMPACT ELEVATION & ANCHOR LAYOUT		
DRAWN: JRM	DWG NO. NL-0138	REV -
SCALE NTS	DATE 05/26/2020	SHEET 4 OF 10

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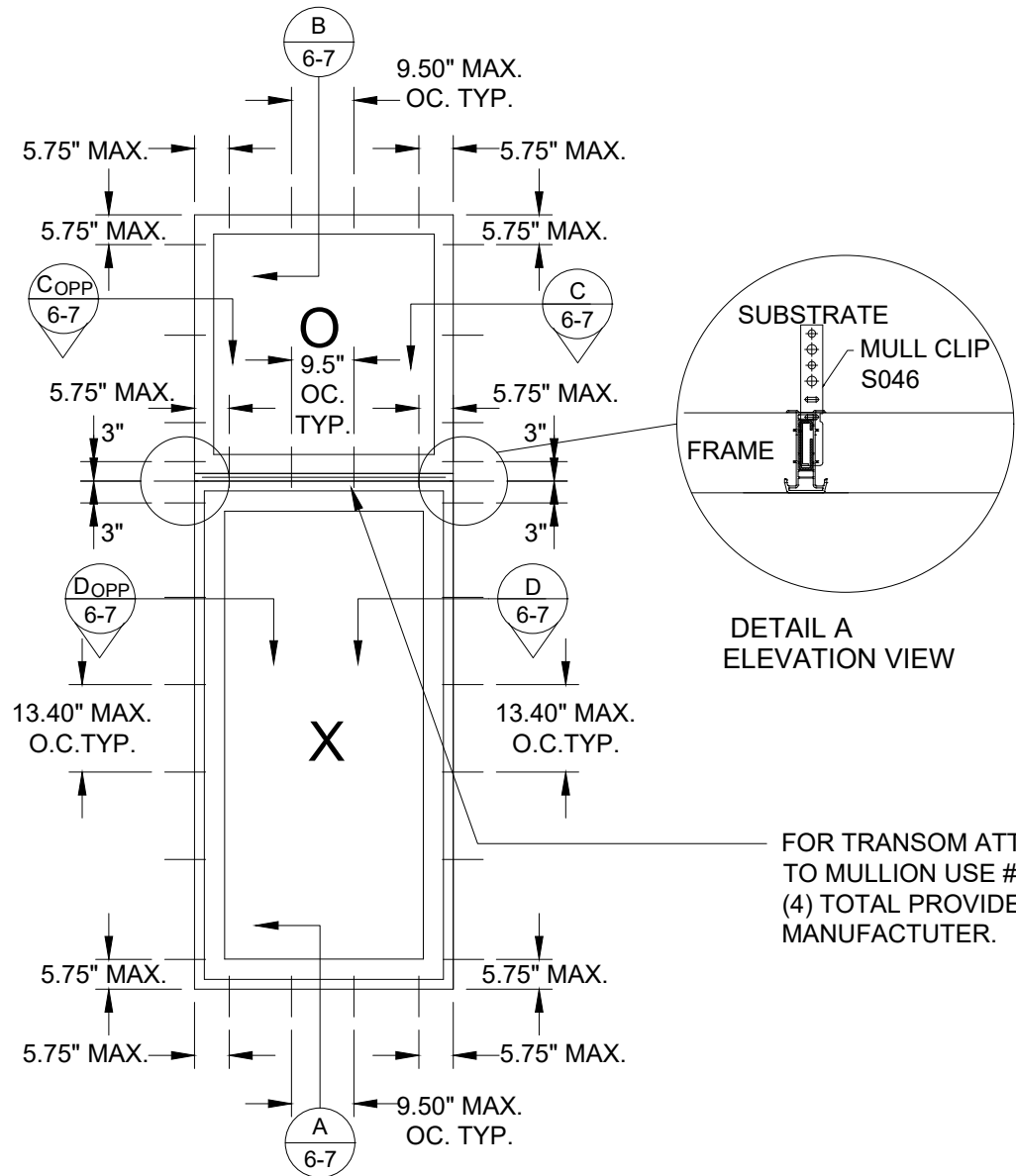
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SINGLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIELD MULL POST

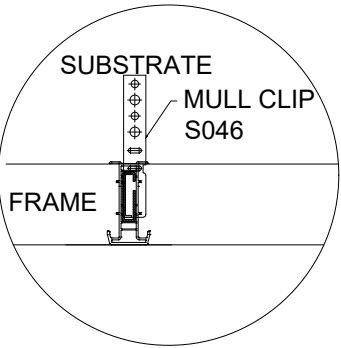
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



ELEVATION LAYOUT
SINGLE HADKZ TILT-TURN WINDOW
WITH TRANSOM AND FIELD POST



ANCHOR LAYOUT
FRAME INSTALLATION



DETAIL A
ELEVATION VIEW

FOR TRANSOM ATTACMENT
TO MULLION USE #10 x 4" S.M.S.
(4) TOTAL PROVIDED BY
MANUFACTUTER.

DESIGN PRESSURE RATING (PSF)				
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	PRODUCT RATING RATING (AAMA)	IMPACT RATING
40" X 118"	+ - (30.0 PSF)	O/X	CW-PG30	NONE
40" X 118"	+ - (50.0 PSF)	O/X	LC-PG50	NONE
SEE GLAZING DETAIL ON SHT. 8				
RATING BASED ON TEST REPORT NO. NCTL-210-4176-5, DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/TRANSOM & FIELD MULL POST. 80" x 118" O/XX TESTED. 40" x 118" O/X ENVELOPED.				

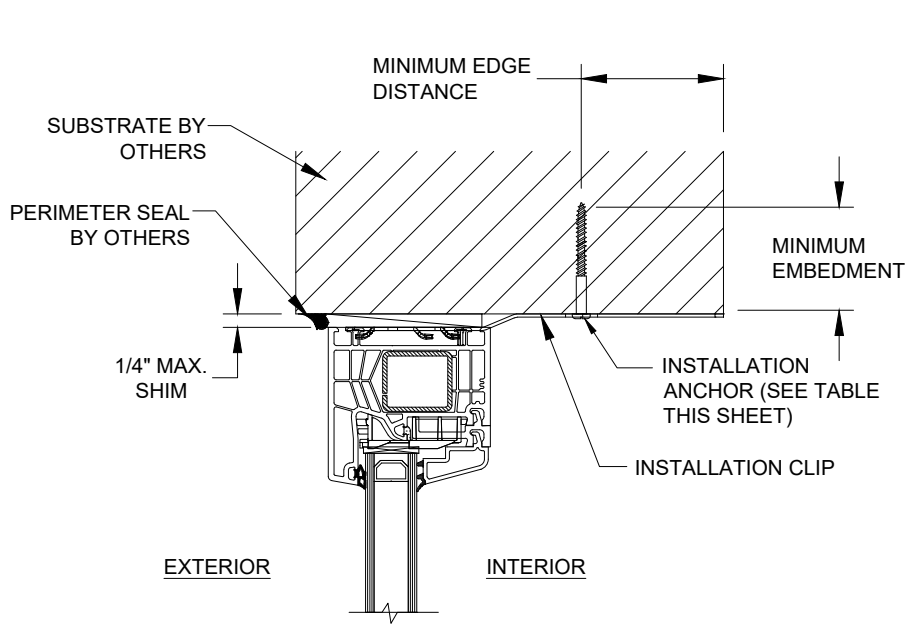
MAXIMUM SIZES (IN)	
FRAME	40 X 118
PANEL	38 X 75
D.L.O	32 X 69.25
FXD. PANEL	40 X 40
FXD. D.L.O	34 X 34

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DRAWN: JRM	DWG NO. NL-0138	REV -
SCALE NTS	DATE 05/26/2020	SHEET 5 OF 10

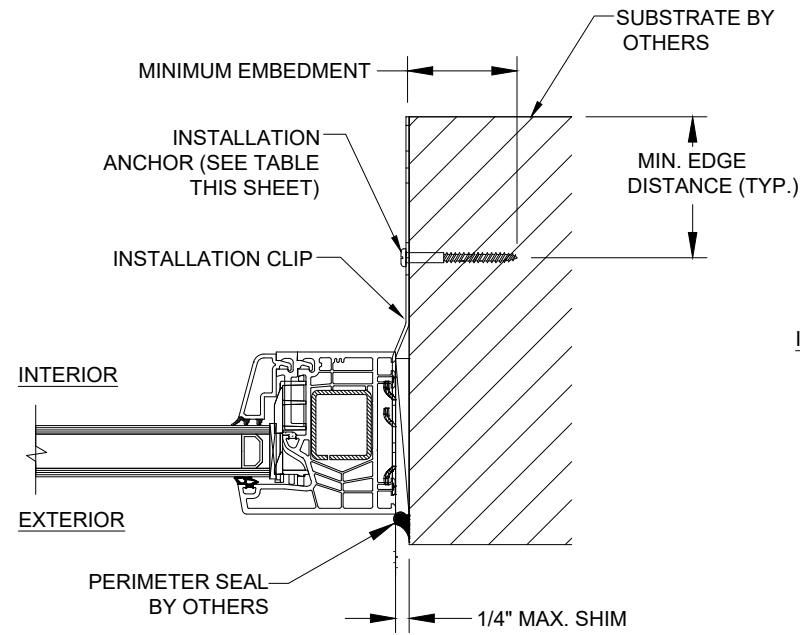
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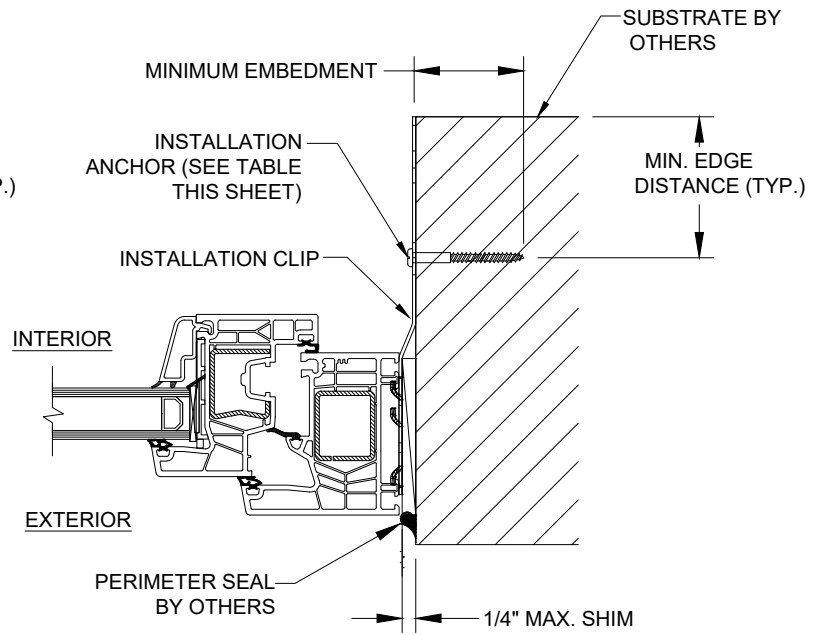
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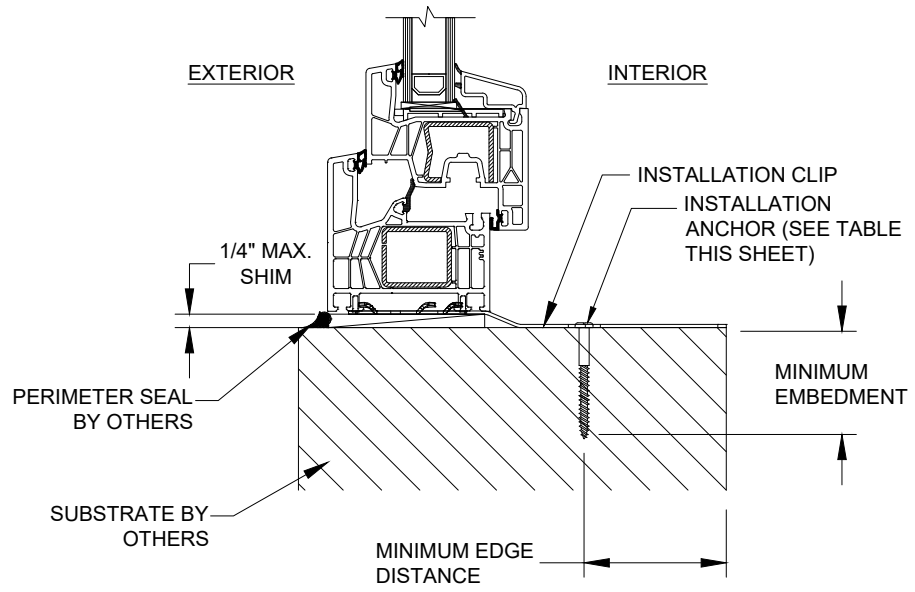
B
6 **ANCHOR DETAIL**
INSTALLATION CLIP
TRANSOM HEAD



C
6 **ANCHOR DETAIL**
INSTALLATION CLIP
TRANSOM JAMB



D
6 **ANCHOR DETAIL**
INSTALLATION CLIP
FRAME JAMB



A
6 **ANCHOR DETAIL**
INSTALLATION CLIP
FRAME SILL

INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH FRAME	WOOD	MIN. 0.42 S.G. (NON-HVHZ)	#14 WOOD SCREW	1-1/2	1
	CONCRETE	2500 PSI MIN. CONCRETE	3/16 ITW TAPCON	1-1/2	1-1/8
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	3/16 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 3/16" DIAMETER ITW ADVANCED THREADFORM TECHNOLOGIES CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

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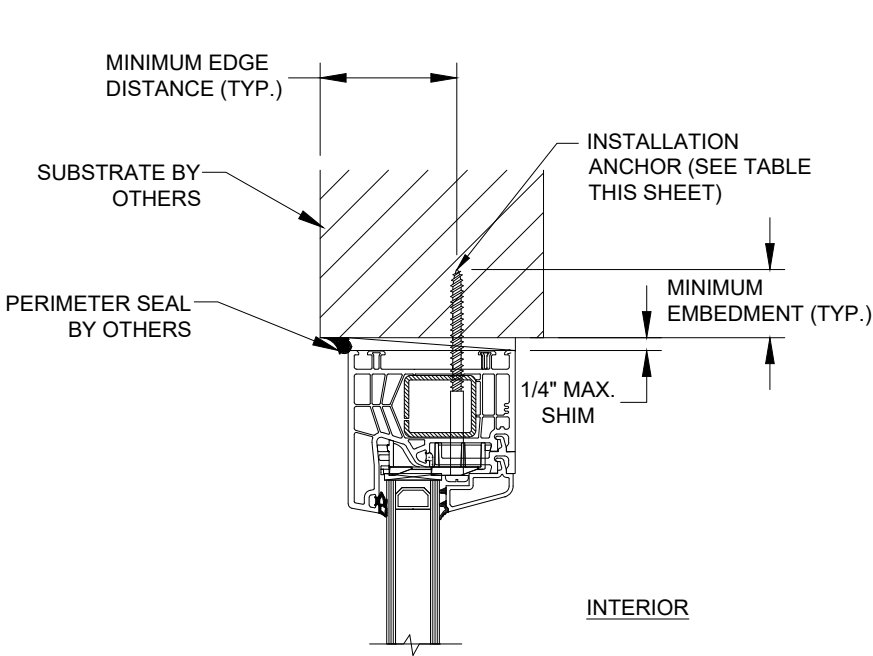
SERIES 76MD TILT-TURN WINDOW
MULLED ASSEMBLIES VINYL NON-IMPACT
ANCHOR DETAILS- INSTALLATION CLIP

DRAWN: JRM	DWG NO. NL-0138	REV -
SCALE NTS	DATE 05/26/2020	SHEET 6 OF 10

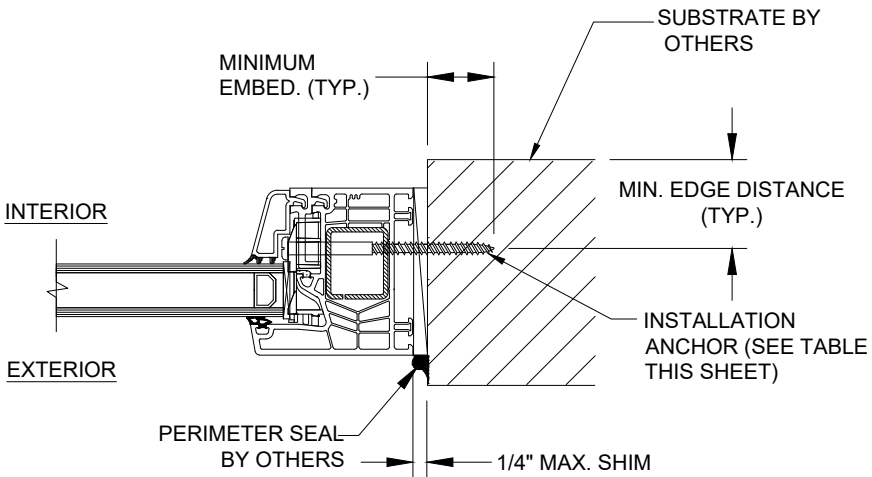
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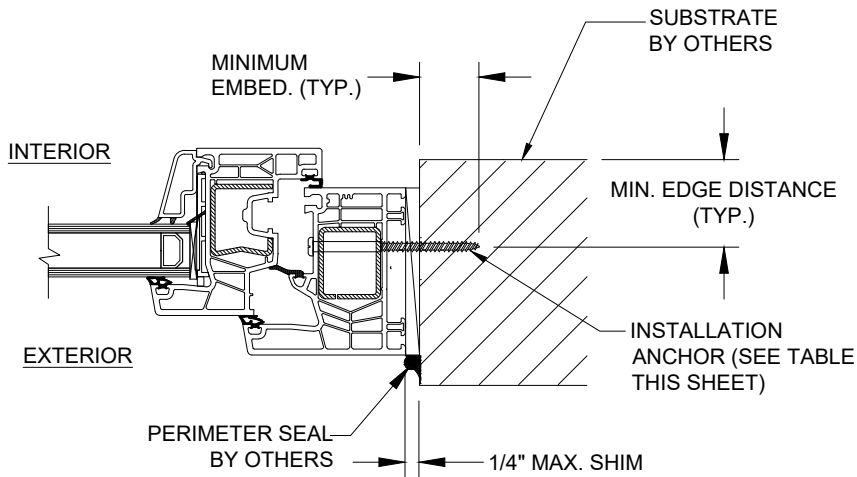
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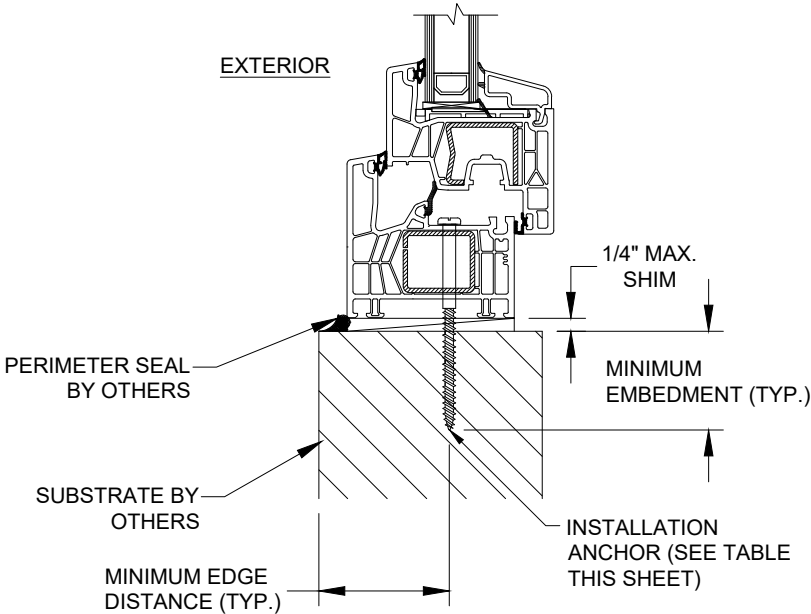
B
7 **ANCHOR DETAIL**
THROUGH FRAME
TRANSOM HEAD



C
7 **ANCHOR DETAIL**
THROUGH FRAME
TRANSOM JAMB



D
7 **ANCHOR DETAIL**
THROUGH FRAME
FRAME JAMB



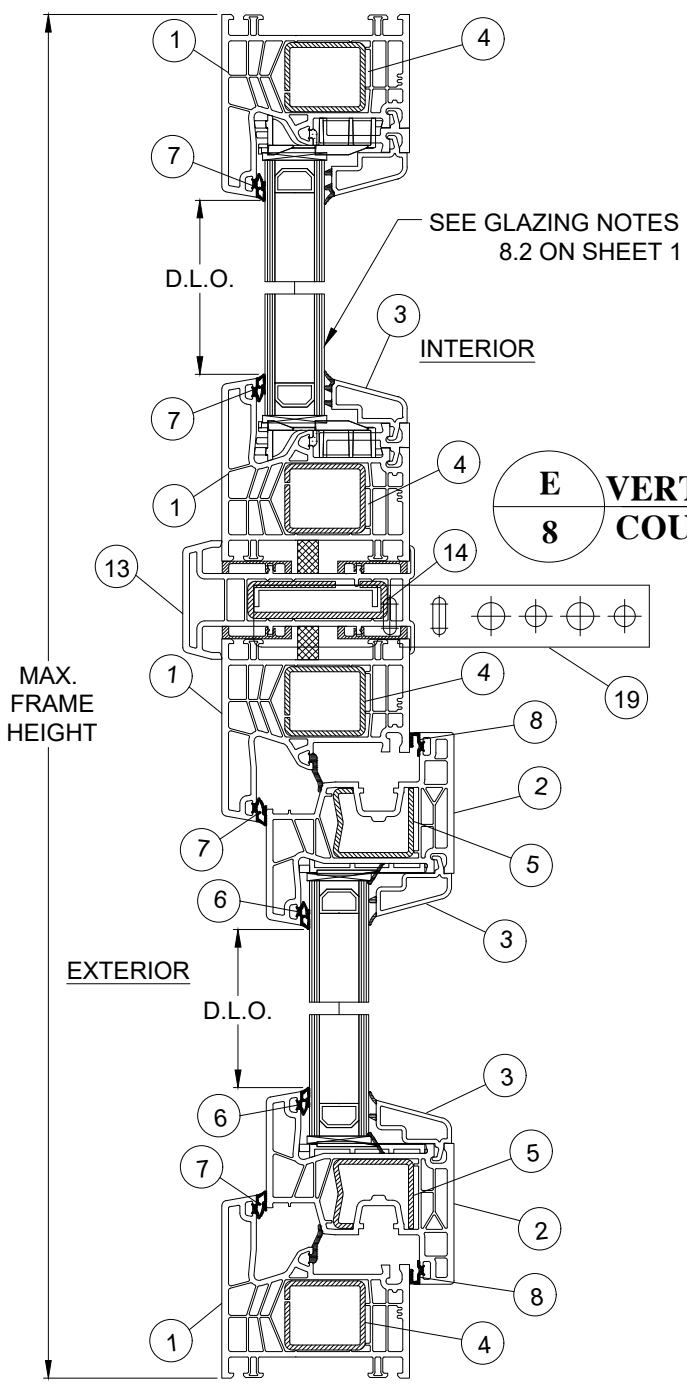
A
7 **ANCHOR DETAIL**
THROUGH FRAME
FRAME SILL

INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH FRAME	WOOD	MIN. 0.42 S.G. (NON-HVHZ)	#14 WOOD SCREW	1-1/2	1
	CONCRETE	2500 PSI MIN. CONCRETE	3/16 ITW TAPCON	1-1/2	1-1/8
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	3/16 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 3/16" DIAMETER ITW ADVANCED THREADFORM TECHNOLOGIES CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

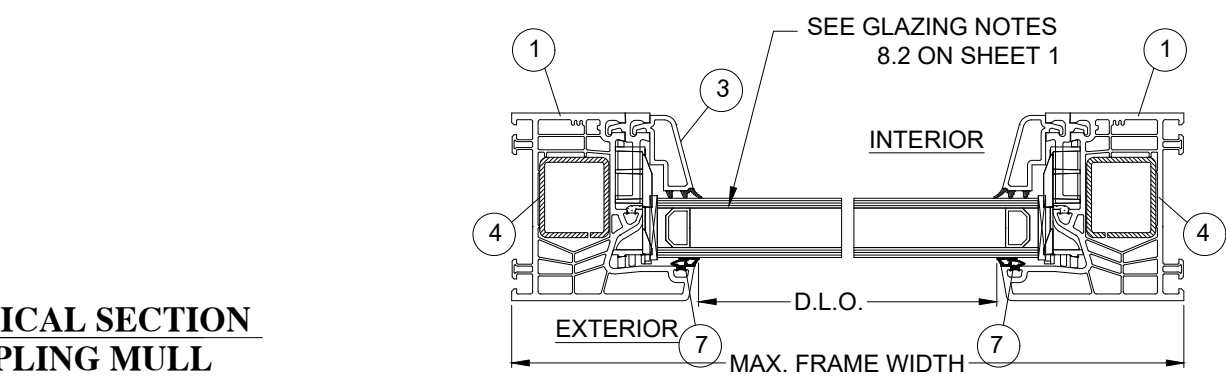
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SERIES 76MD TILT-TURN WINDOW MULLED ASSEMBLIES VINYL NON-IMPACT ANCHOR DETAIL-THROUGH FRAME		
DRAWN: JRM	DWG NO. NL-0138	REV -
SCALE NTS	DATE 05/26/2020	SHEET 7 OF 10

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REVISIONS			
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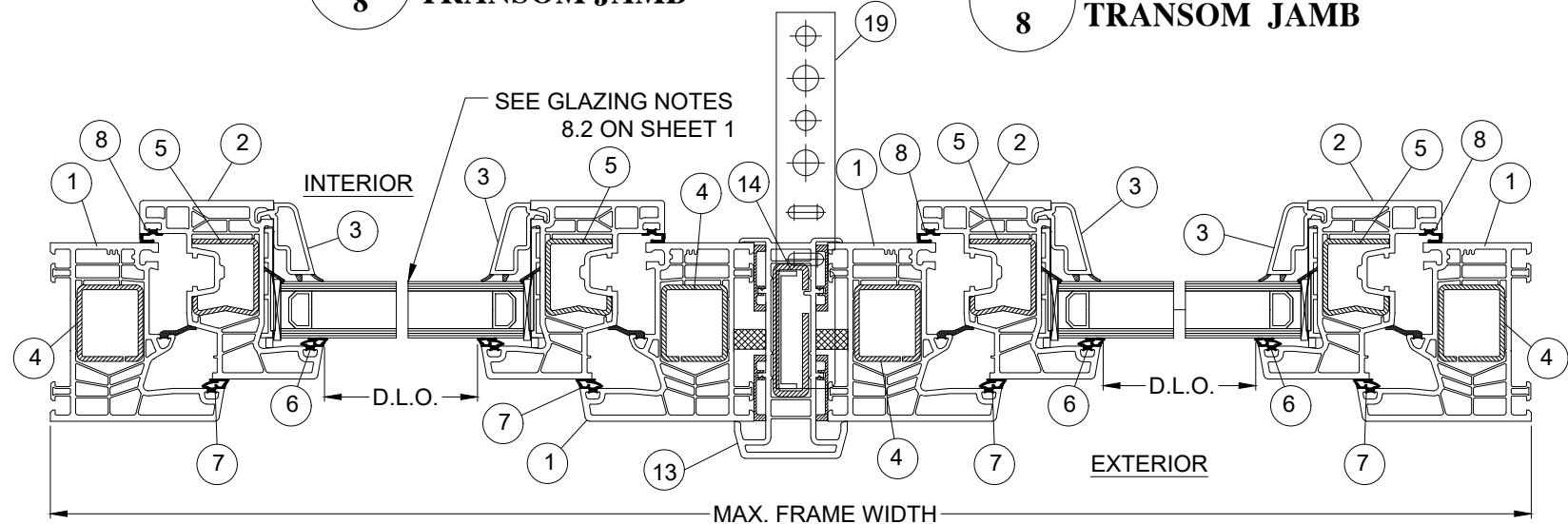


A
8
**VERTICAL SECTION
TRANSOM ASSEMBLY**



B
8
**HORIZONTAL SECTION
TRANSOM JAMB**

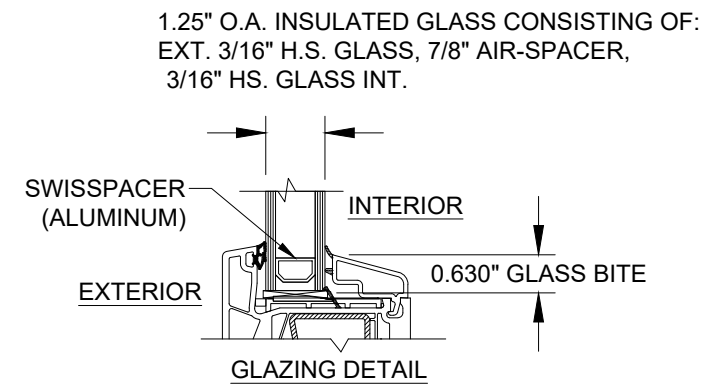
BOPP
8
**HORIZONTAL SECTION
TRANSOM JAMB**



C
8
**HORIZONTAL SECTION
TILT-TURN JAMB**

D
8
**HORIZONTAL SECTION
COUPLING MULL**

COPP
8
**HORIZONTAL SECTION
TURN JAMB**



GLAZING NOTES:
INTERIOR GLAZED WITH A FOAM TAPE
BACK-BEDDING AND A SNAP-IN RIGID VINYL
GLAZING BEAD AND EPDM (RUBBER 70 DUR.)
GLAZING GASKET.

KOMMERLING USA, INC.
 3415-A STANWOOD BLVD. N.E.
 HUNTSVILLE, AL 35811

SERIES 76MD TILT-TURN WINDOW
 MULLED ASSEMBLIES VINYL NON-IMPACT
 VERTICAL & HORIZONTAL SECTIONS

DRAWN: JRM
 SCALE: NTS

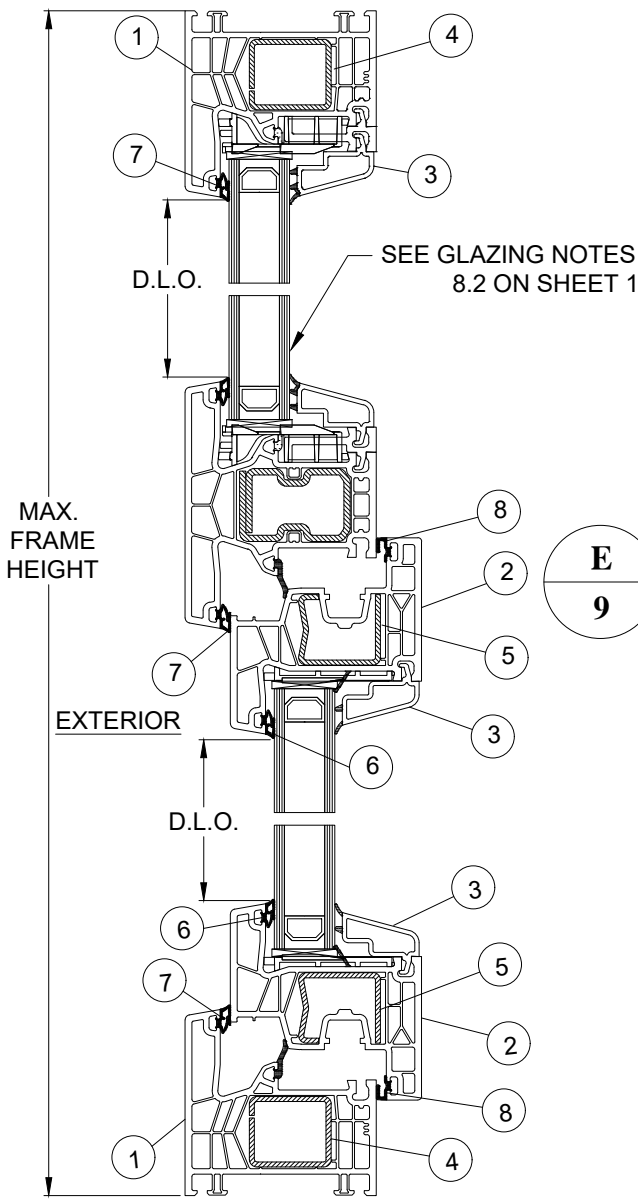
DWG NO.: NL-0138
 DATE: 05/26/2020

REV: -
 SHEET: 8 OF 10

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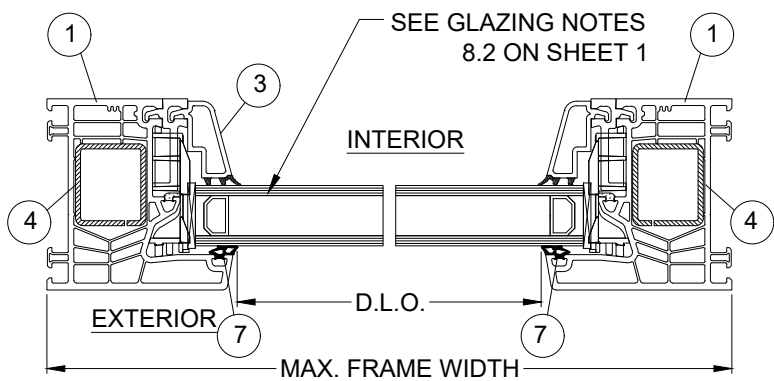
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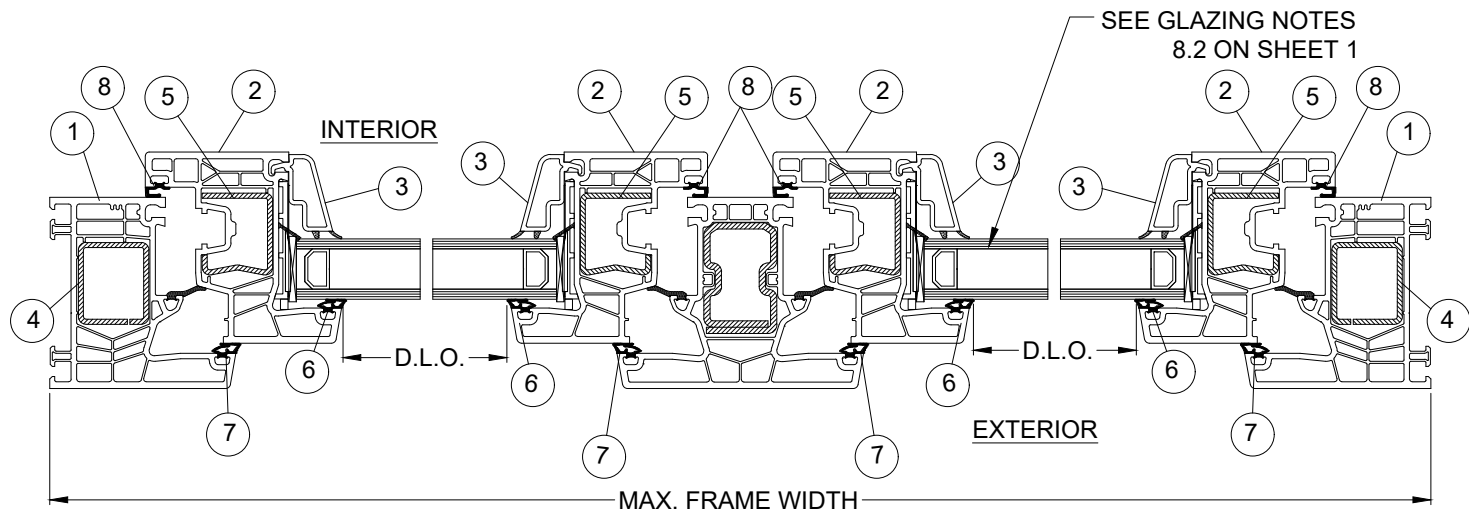
A
9 VERTICAL SECTION
TRANSM ASSEMBLY

E
9 TRANSM SECTION



B
9 HORIZONTAL SECTION
TRANSM JAMB

BOPP
9 HORIZONTAL SECTION
TRANSM JAMB



C
9 HORIZONTAL SECTION
TILT-TURN JAMB

D
9 HORIZONTAL SECTION
FIXED MULL POST

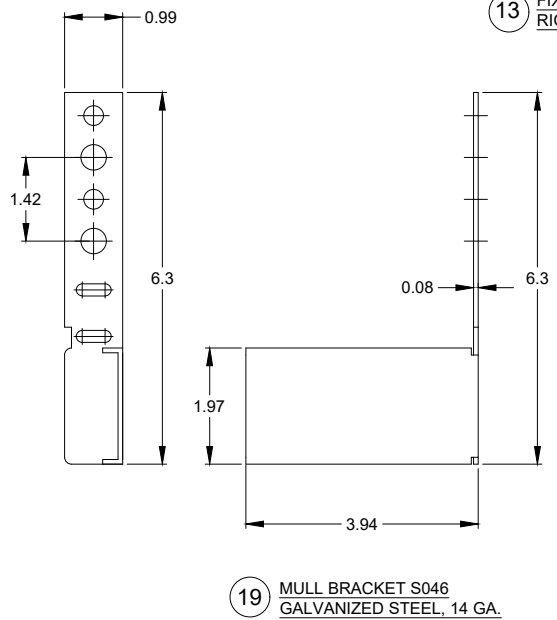
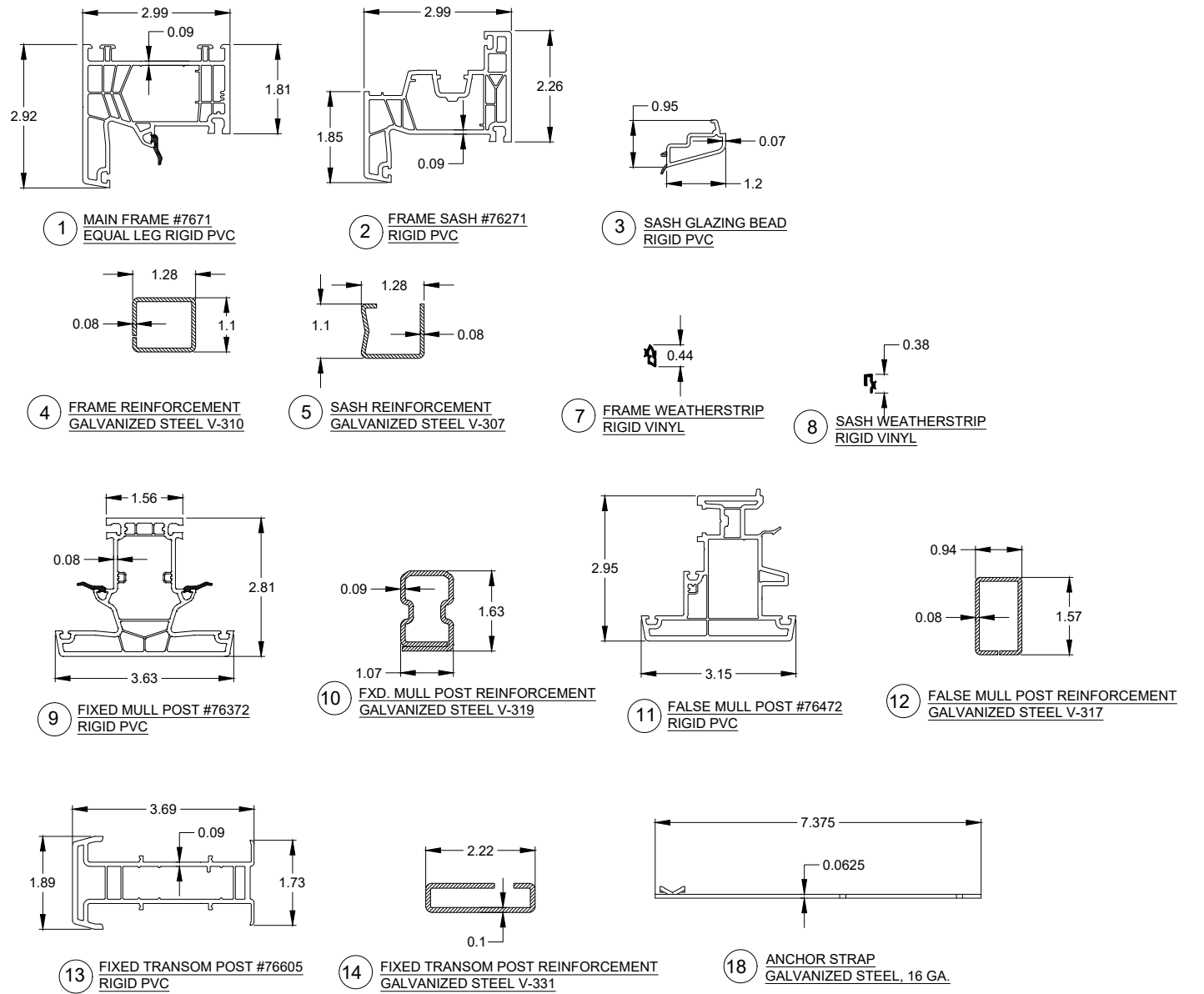
COPP
9 HORIZONTAL SECTION
TURN JAMB

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DRAWN: JRM	DWG NO. NL-0138	REV -
SCALE NTS	DATE 05/26/2020	SHEET 9 OF 10

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QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	7671	MAIN FRAME HEAD, RIGID PVC	PROFINE
2	76271	SASH, RIGID PVC	PROFINE
3	-----	1.25" I.G. OVERALL GLAZING BEAD, RIGID PVC	PROFINE
4	V-310	FRAME REINFORCEMENT-GALV. STL.	PROFINE
5	V-307	SASH REINFORCEMENT-GALV. STL.	PROFINE
6	-----	GLAZING GASKET-RIGID VINYL	PURCHASE
7	-----	FRAME WEATHERSTRIP GASKET-RIGID VINYL	PURCHASE
8	-----	SASH WEATHERSTRIP GASKET-RIGID VINYL	PURCHASE
9	76372	FIXED MULL POST, RIGID PVC	PROFINE
10	V-319	FIXED MULL POST REINFORCEMENT-GALV. STL.	PROFINE
11	76472	FALSE MULL POST, RIGID PVC	PROFINE
12	V-317	FALSE MULL POST REINFORCEMENT-GALV. STL.	PROFINE
13	76605	FIXED TRANSOM POST, RIGID PVC	PROFINE
14	V-331	FIXED TRANS. POST REINFORCEMENT-GALV. STL.	PROFINE
15	-----	#10 PH S.M.S.	PURCHASE
16	-----	#10 PH WOOD SCREW	PURCHASE
17	-----	3/16" DIAM. I.T.W. MASONRY ANCHOR	PURCHASE
18	-----	ANCHOR STRAP, 16 GA. GALVANIZED STEEL	PURCHASE
19	S046	MULL BRACKET, 14 GA. GALVANIZED STEEL	PURCHASE



KOMMERLING USA, INC. 3415-A STANWOOD BLVD. N.E. HUNTSVILLE, AL 35811		
SERIES 76MD TILT-TURN WINDOW MULLED ASSEMBLIES VINYL NON-IMPACT BILL OF MATERIALS & COMPONENTS		
DRAWN: JRM	DWG NO. NL-0138	REV -
SCALE NTS	DATE 05/26/2020	SHEET 10 OF 10

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