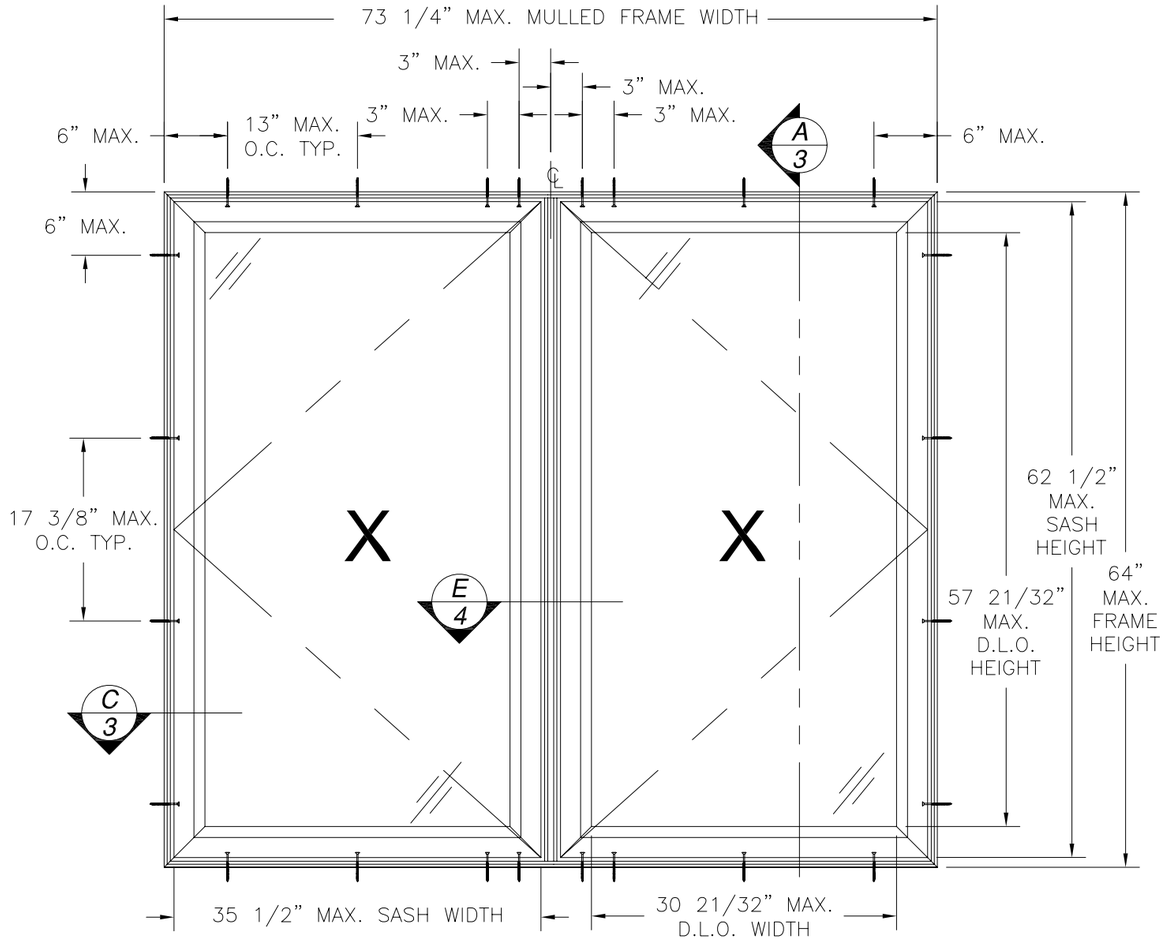

SERIES V-600/V-630 PVC INTEGRAL MULLED TWIN CASEMENT WINDOW

XX UNIT SHOWN, OX AND XO UNITS ARE APPROVED AS LONG AS INDIVIDUAL UNITS DO NOT EXCEED SIZES SHOWN HEREIN
EXTERIOR VIEW

DESIGN PRESSURE RATING	*IMPACT RATING*
±70PSF	*SMALL MISSILE IMPACT*

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:
1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS STATE MODIFICATIONS.
2) WOOD FRAMING, 2X BACKED STEEL 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) 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SEPARATION OF DISSIMILAR MATERIALS IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4) 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.
5) FRAME MATERIAL: WHITE EXTRUDED RIGID PVC.071" THICK.
SASH MATERIAL: WHITE EXTRUDED RIGID PVC.075" THICK.
6) UNITS MUST BE GLAZED PER ASTM E1300. SEE SHEET 4 FOR GLAZING DETAIL.
7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS IF THE UNITS ARE USED ABOVE 30 FEET IN HEIGHT IN ANY OR ALL STRUCTURES.
8) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9) FOR ANCHORING INTO MASONRY USE 3/16" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 5/8'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10) FOR ANCHORING INTO 2X WOOD FRAMING, 2X BUCK OR 2X BACKED 20GA. STEEL FRAMING USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11) ALL FASTENERS TO BE CORROSION RESISTANT.
12) 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:
A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
D. STEEL FRAMING: 2X BACKED 20GA. (.036" MIN.) STEEL FRAMING.
13) APPROVED CONFIGURATIONS: X, OX, XO, XX, XOX, OXO, XXO, OXX, XXX. ALL APPROVED CONFIGURATIONS MAYBE LEFT HAND OR RIGHT HAND OPERABLE.
14) SERIES V–600 IS OPERABLE CASEMENT AND SERIES V–630 IS FIXED CASEMENT. SEE CROSS SECTIONS SHEETS 3 AND 4.

TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1 – 2	ELEVATION, ANCHORING LAYOUT AND NOTES
3	BILL OF MATERIALS AND CROSS SECTIONS
4	CROSS SECTIONS, CORNER AND GLAZING DETAILS
5 – 7	INSTALLATION DETAILS
8	COMPONENTS
9	HARDWARE LAYOUT

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SERIES V–600/V–630 PVC SINGLE AND INTEGRAL MULLED CASEMENT WINDOW – SMI
ELEVATION, ANCHORING LAYOUT AND NOTES

DRAWN:	DWG NO.	REV
TJH	08–01127	–
SCALE NTS	DATE 11/08/10	SHEET 1 OF 9

STATE OF TEXAS
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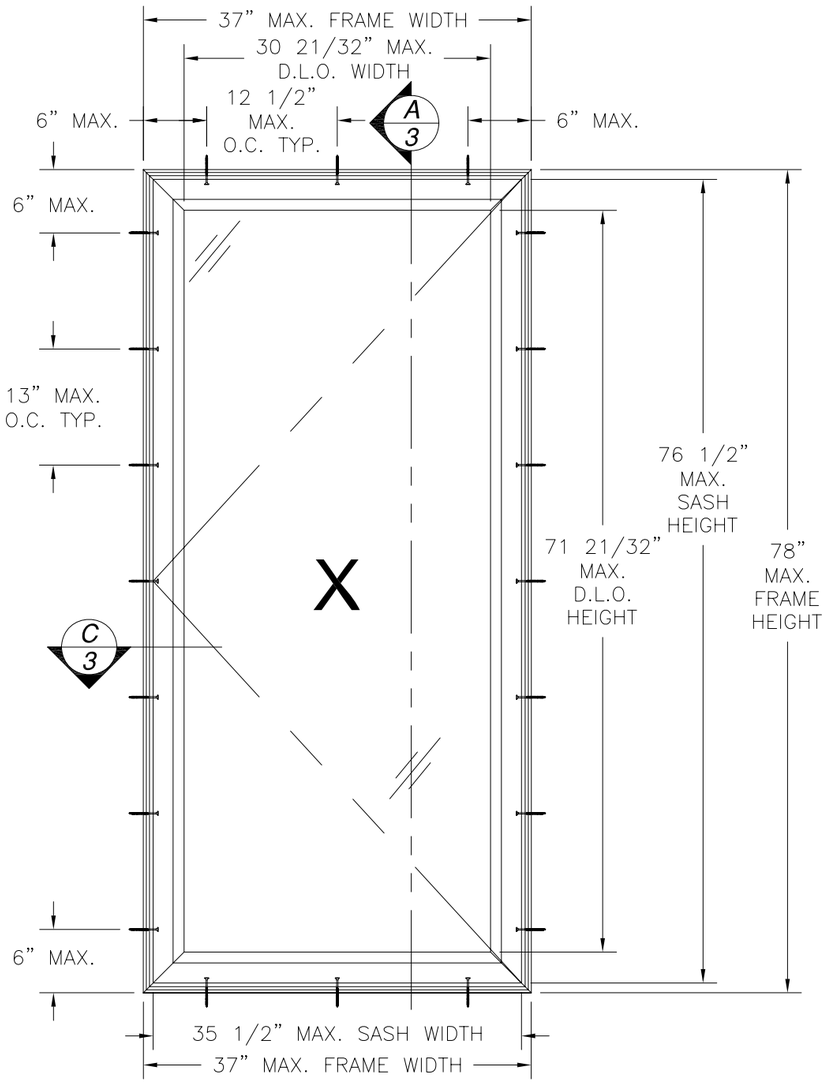
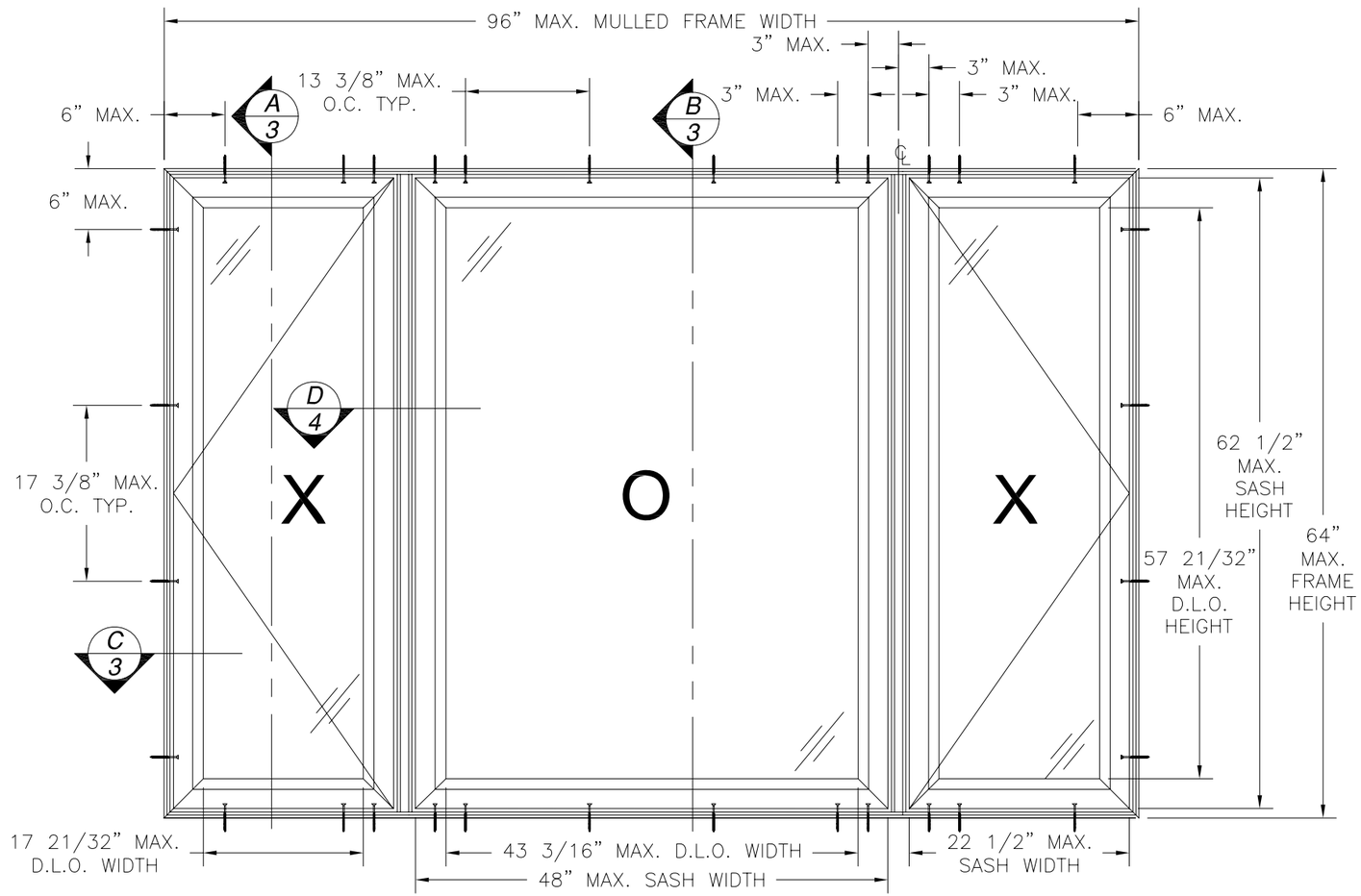


SERIES V-600 PVC SINGLE CASEMENT WINDOW

EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+80.0 PSF -130.0 PSF	SMALL MISSILE IMPACT



SERIES V-600/V-630 PVC INTEGRAL MULLED TRIPLE CASEMENT WINDOW

XOX, SHOWN, XXO, OXX, OXO AND XXX ARE APPROVED. INDIVIDUAL OPERABLE UNIT IN ALL APPROVED CONFIGURATIONS MAY NOT EXCEED FRAME SIZE SHOWN HEREIN

EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+70.0 PSF -80.0 PSF	SMALL MISSILE IMPACT

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ELEVATIONS AND ANCHORING LAYOUTS

DRAWN:	DWG NO.	REV
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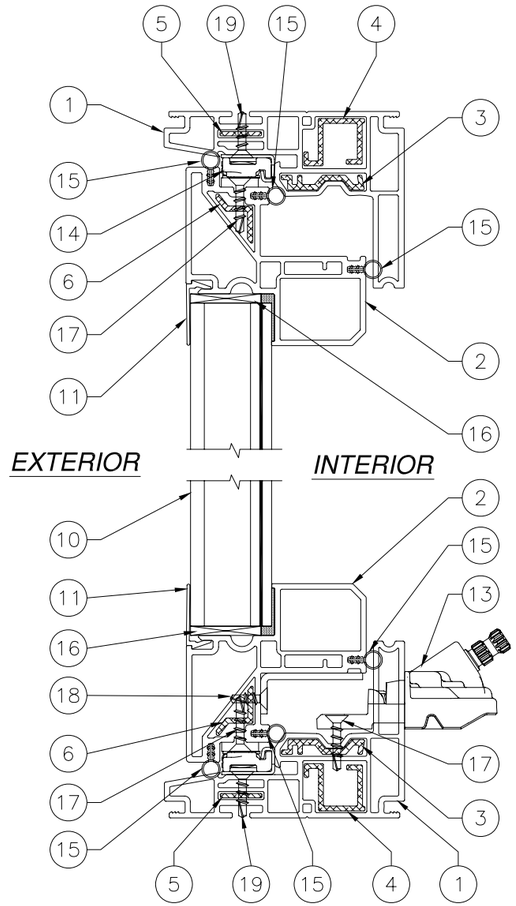
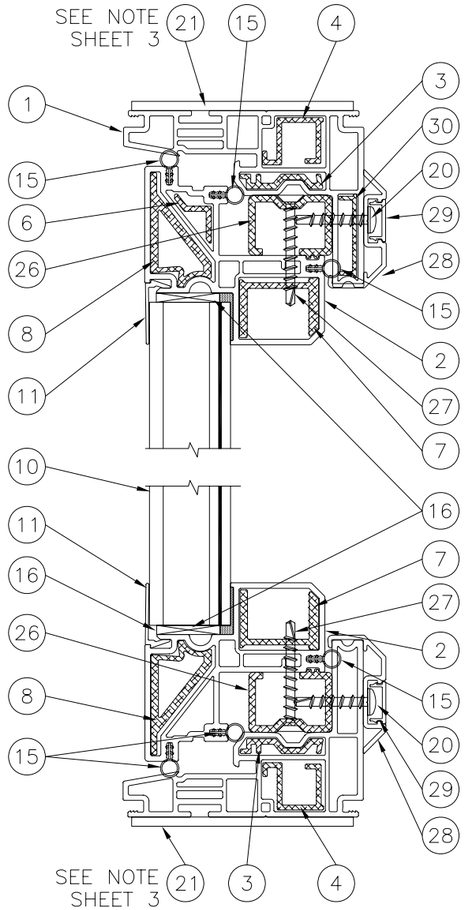
PARTS LIST

NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	101.214	FRAME, HEAD, SILL AND JAMB	VEKA	RIGID PVC
2	101.214	PANEL FRAME, STILE AND RAIL	VEKA	RIGID PVC
3	FS-05688	FRAME UPPER SCREW RECEIVER	KEYMARK	ALUMINUM 6063-T6
4	FS-05689	FRAME LOWER SCREW RECEIVER	KEYMARK	ALUMINUM 6063-T6
5	FS-05690	FRAME SCREW BACKER	KEYMARK	ALUMINUM 6063-T6
6	FS-05691	TRACK & SNUBBER SCREW RECEIVER	KEYMARK	ALUMINUM 6063-T6
7	FS-05692	VENT INT. SCREW RECEIVER & REBAR	KEYMARK	ALUMINUM 6063-T6
8	FS-05693	VENT EXTERIOR REBAR	KEYMARK	ALUMINUM 6063-T6
9	20008	VENT SNUBBER	TRUTH HARDWARE	
10		SMALL MISSILE GLAZING		
11	V60X-AC-13	1 1/8" GLAZING BEAD	MOR-X	RIGID PVC
12	24.33	MULTI-POINT LOCK AND KEEPER SET	TRUTH HARDWARE	
13	50.00/50.50	OPERATOR AND BRACKET	TRUTH HARDWARE	
14	14.97.00	SLIDE HINGE	TRUTH HARDWARE	
15	AP-425	KERF APTUS VENT BULB SEAL	SCHLEGAL	PLASTIC
16		1/8" x 1 1/16" x 2" SET BLOCK	FRANK LOWE	NEOPRENE
17		#8 x 3/4" FH SELF DRILLING SCREW		STAINLESS STEEL
18		#8 x 1/2" FH SELF DRILLING SCREW		STAINLESS STEEL
19		#8 x 5/8" FH SELF DRILLING SCREW		STAINLESS STEEL
20		#10 x 1" PH SELF DRILLING SCREW		STAINLESS STEEL
21		1/8" THICK PLATE		ALUMINUM 6063-T6
22	SIKAFLEX 552	GLAZING COMPOUND	SIKA	URETHANE
23		SEALANT		SILICONE
24	CA310	T-MULL	VEKA	RIGID PVC
25	FH-05695	T-MULLION REINFORCEMENT	KEYMARK	ALUMINUM 6063-T6
26	FS-05696	F-LITE SPACER & SCREW RECEIVER	KEYMARK	ALUMINUM 6063-T6
27		#10 x 1 3/4" FH S-DRILLING SCREW		STAINLESS STEEL
28	V60X-AC-15	F-VENT ATTACHMENT SCREW COVER	MOR-X	RIGID PVC
29	AC82	FIXED VENT SCREW COVER CAP	VEKA	RIGID PVC
30	FS-05694	F-VENT ATTACH SCREW BACKUP	KEYMARK	ALUMINUM 6063-T6
31		#10 x 2" FH SELF DRILLING SCREW		STAINLESS STEEL

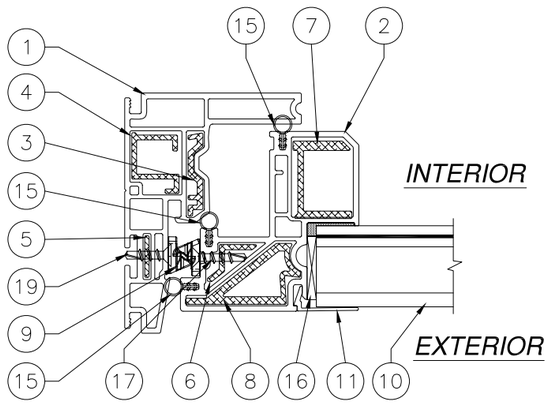
NOTE:
ITEM #21 IS ONLY AT THE MULLION AND IS A SCREW BACKUP PLATE. IT DOES NOT RUN FULL LENGTH OF HEAD AND SILL.



A/3 VERTICAL CROSS SECTION



B/3 VERTICAL CROSS SECTION



C/3 HORIZONTAL CROSS SECTION

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BILL OF MATERIALS AND CROSS SECTIONS

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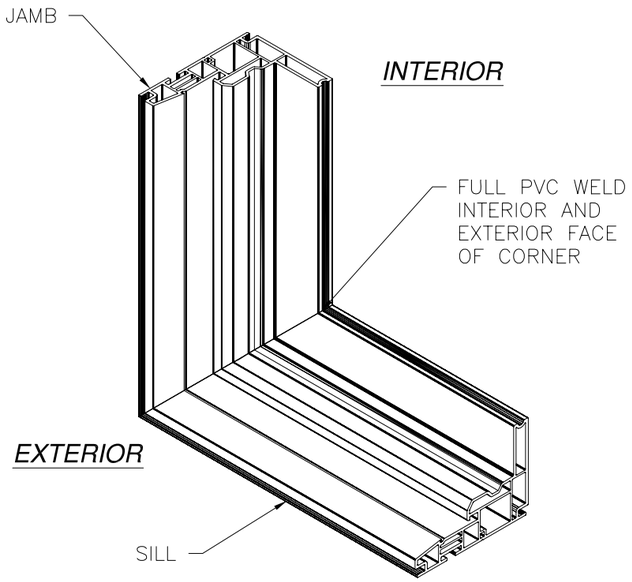
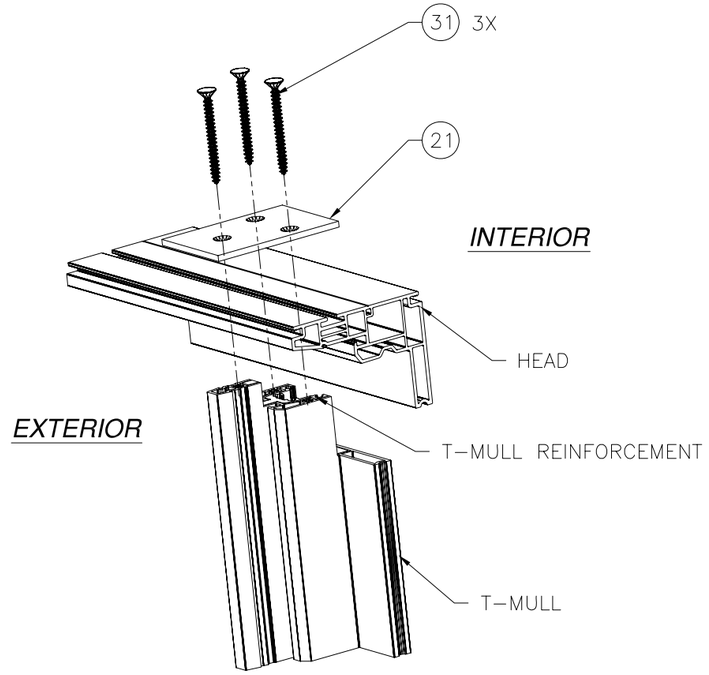
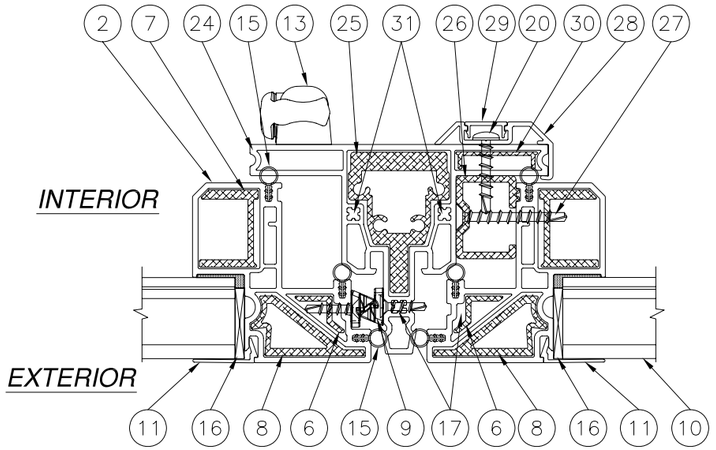


FRAME CONER CONSTRUCTION DETAIL



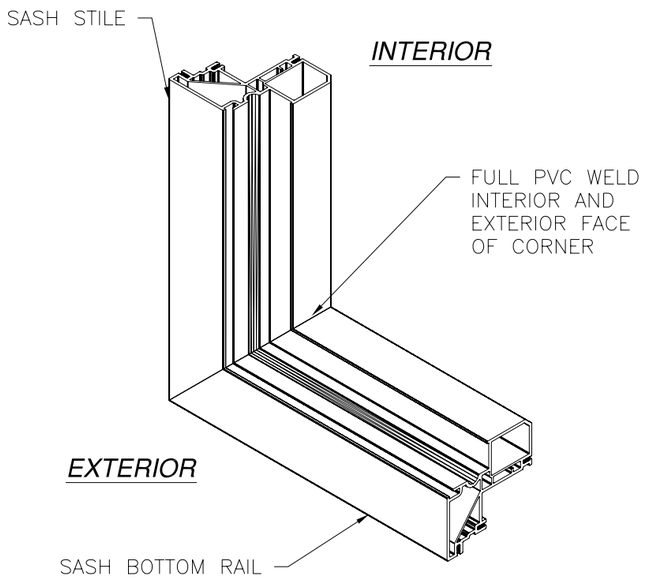
T-MULL ATTACHMENT DETAIL

HEAD SHOWN, SILL SIMILAR

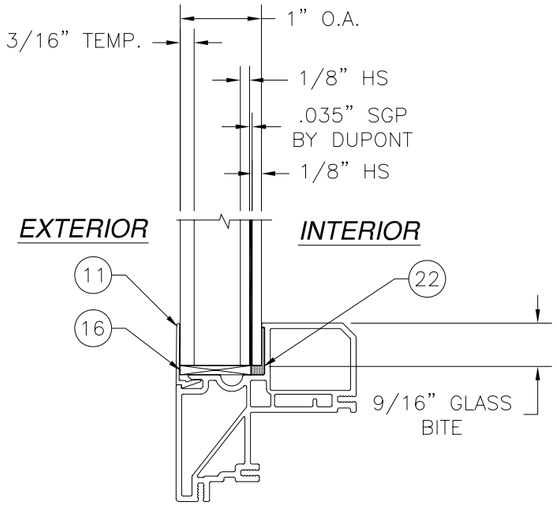


D/4 HORIZONTAL CROSS SECTION

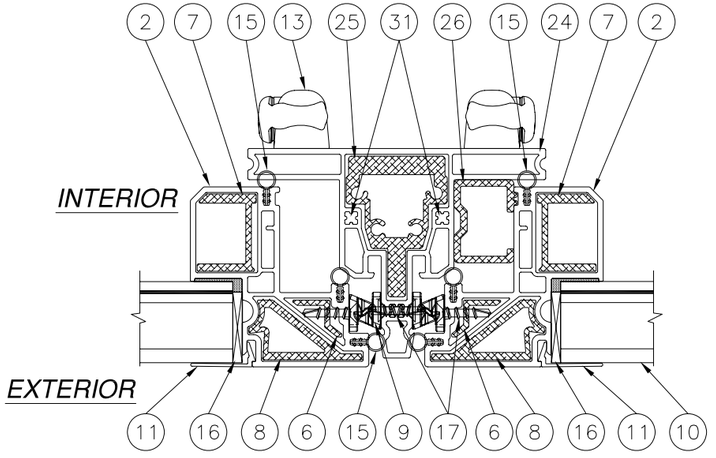
INTEGRAL MULL OPERABLE TO FIXED



SASH CONER CONSTRUCTION DETAIL



GLAZING DETAIL



E/4 HORIZONTAL CROSS SECTION

INTEGRAL MULL OPERABLE TO OPERABLE

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CROSS SECTIONS, CORNER AND GLAZING DETAILS

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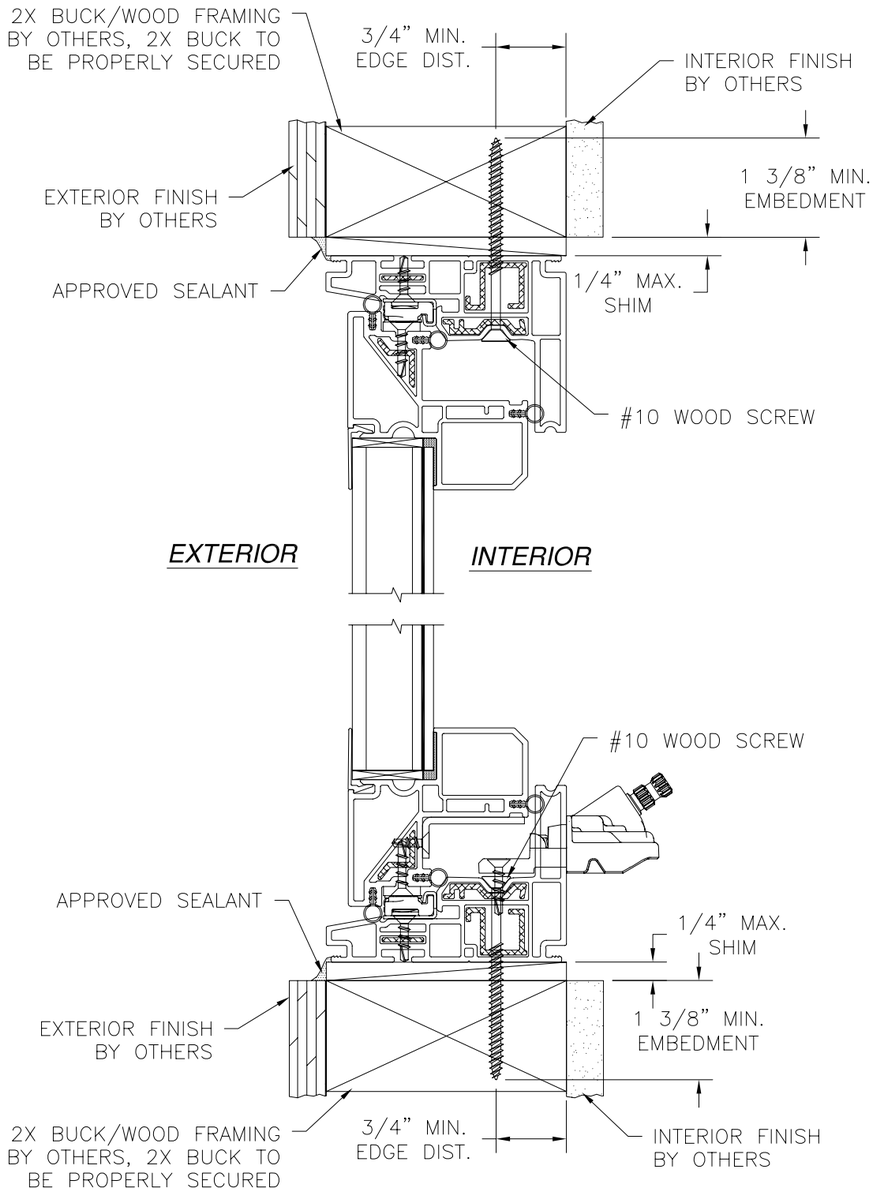
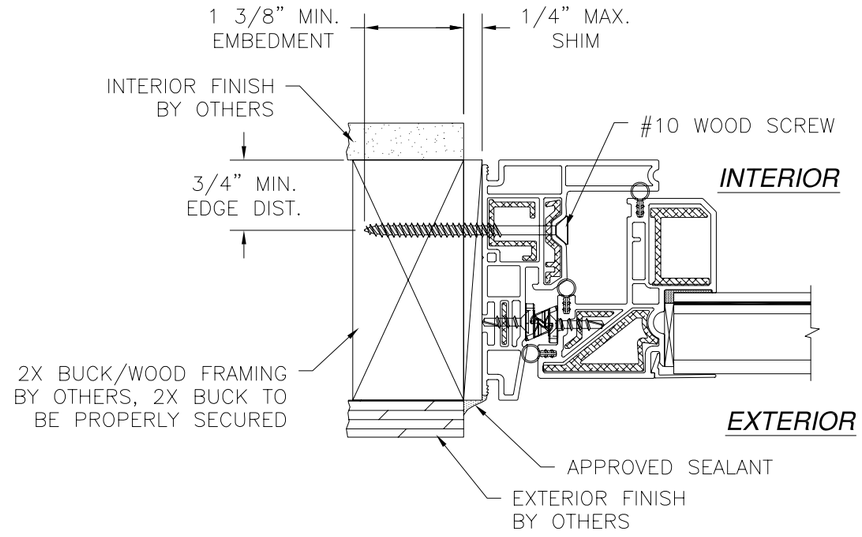


VERTICAL CROSS SECTION

2X BUCK/WOOD FRAMING INSTALLATION
OPERABLE SHOWN, FIXED SIMILAR



HORIZONTAL CROSS SECTION

2X BUCK/WOOD FRAMING INSTALLATION
OPERABLE SHOWN, FIXED SIMILAR

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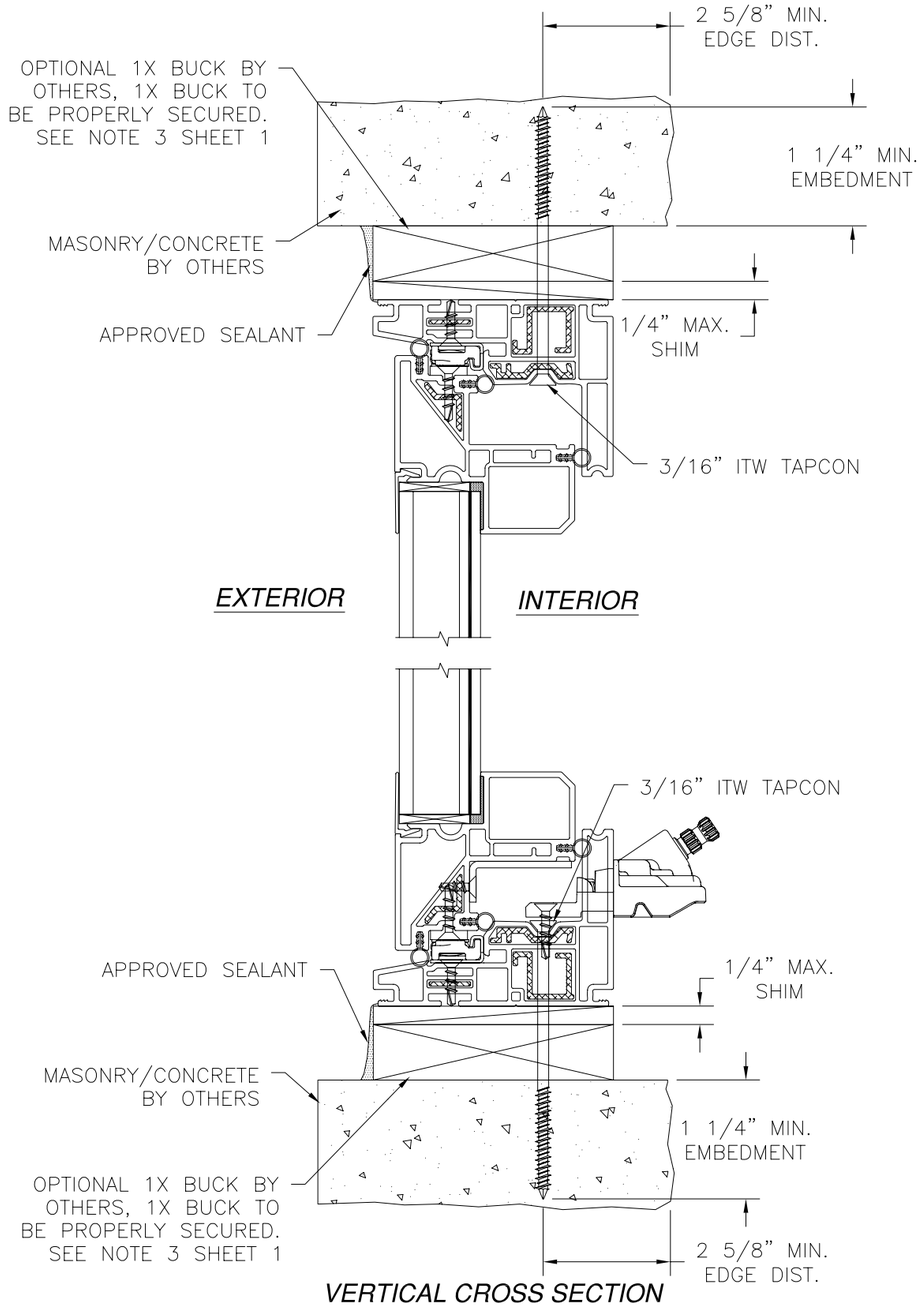
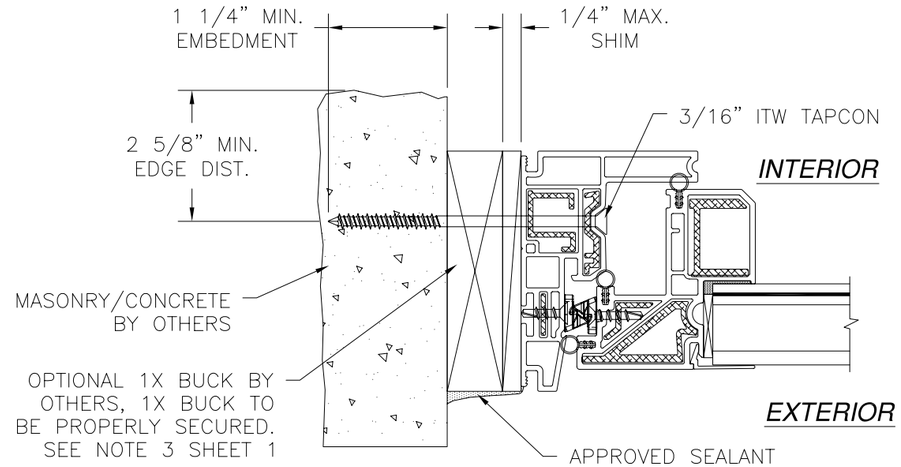


VERTICAL CROSS SECTION

MASONRY/CONCRETE INSTALLATION
OPERABLE SHOWN, FIXED SIMILAR



HORIZONTAL CROSS SECTION

MASONRY/CONCRETE INSTALLATION
OPERABLE SHOWN, FIXED SIMILAR

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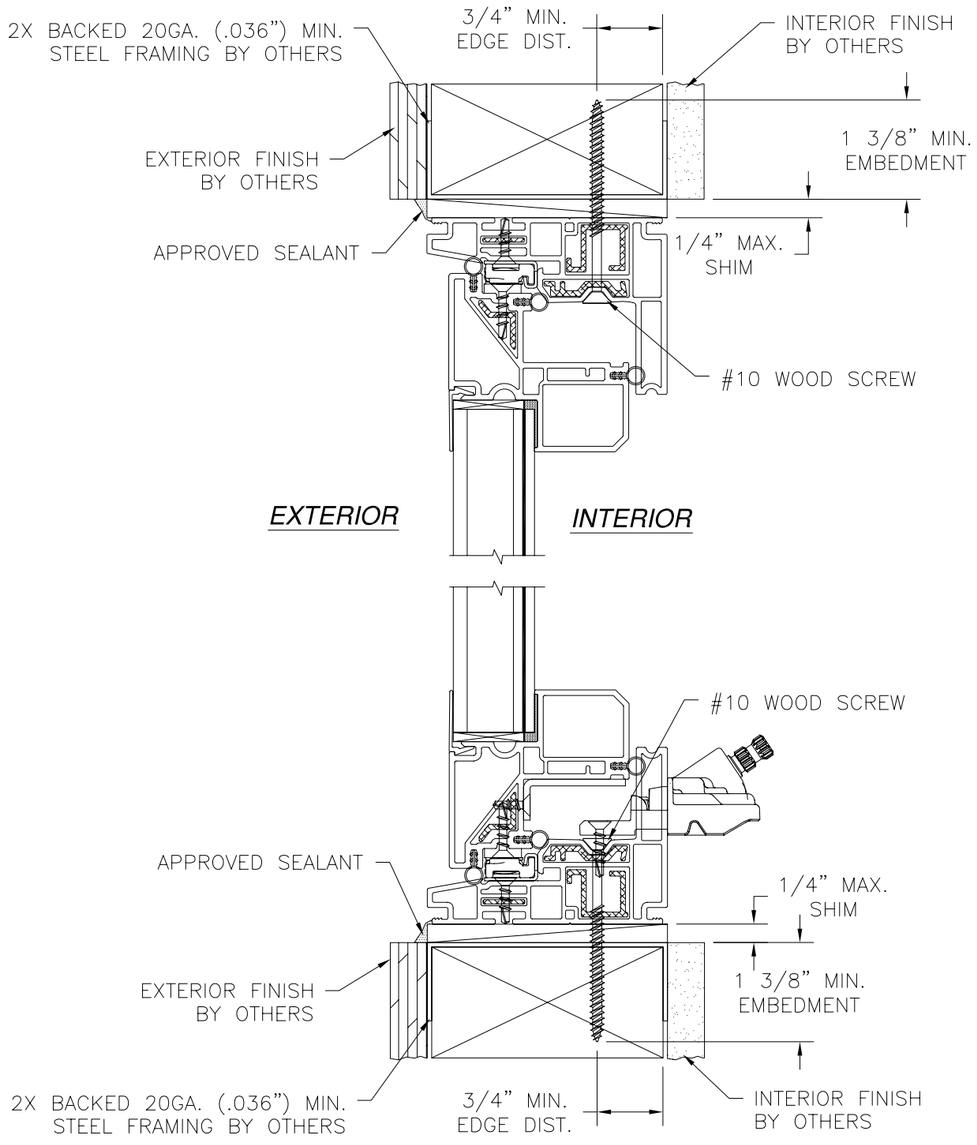
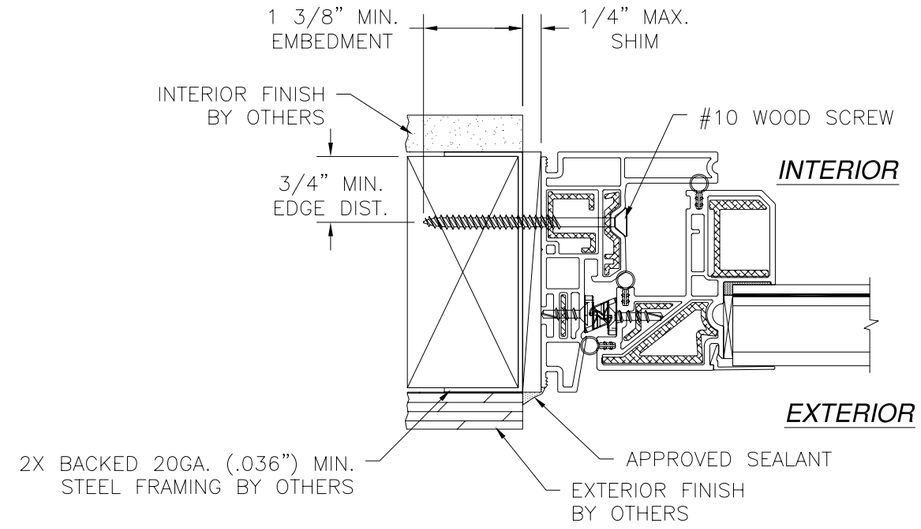


VERTICAL CROSS SECTION

2X BACKED STEEL STUD FRAMING INSTALLATION
OPERABLE SHOWN, FIXED SIMILAR



HORIZONTAL CROSS SECTION

2X BACKED STEEL STUD FRAMING INSTALLATION
OPERABLE SHOWN, FIXED SIMILAR

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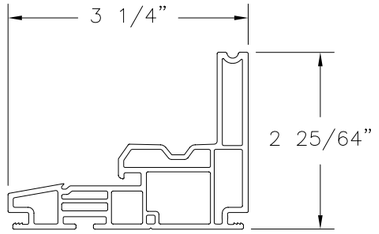
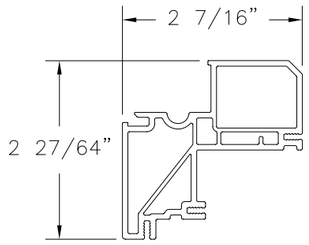


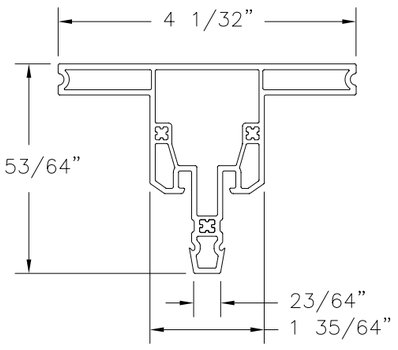
1 FRAME, HEAD, SILL AND JAMB

EXTRUDED RIGID PVC .071" THICK



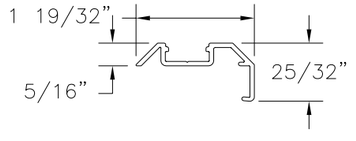
2 PANEL FRAME, STILE AND RAIL

EXTRUDED RIGID PVC .075" THICK



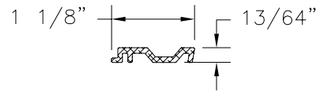
24 T-MULL

EXTRUDED RIGID PVC .078" THICK



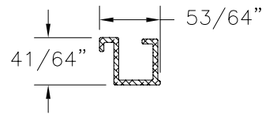
28 FIXED VENT ATTACHMENT SCREW COVER

EXTRUDED RIGID PVC .060" THICK



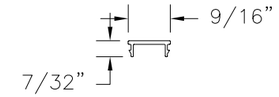
3 FRAME UPPER SCREW RECEIVER

EXTRUDED ALUMINUM 6063-T6 .075" THICK



4 FRAME LOWER SCREW RECEIVER

EXTRUDED ALUMINUM 6063-T6 .065" THICK

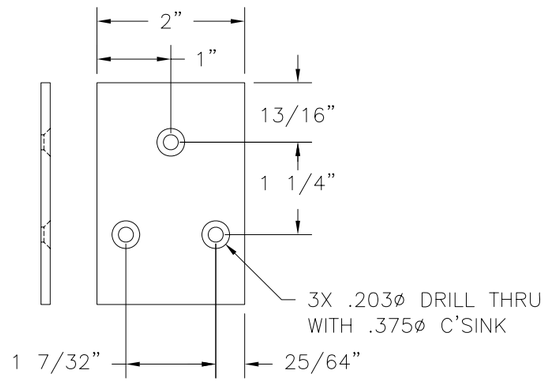


29 FIXED VENT SCREW COVER CAP

EXTRUDED RIGID PVC .050" THICK

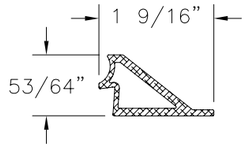
5 FRAME SCREW BACKER

EXTRUDED ALUMINUM 6063-T6 .058" THICK



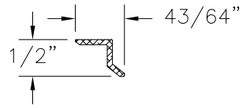
21 1/8" PLATE

EXTRUDED ALUMINUM 6063-T6 .125" THICK



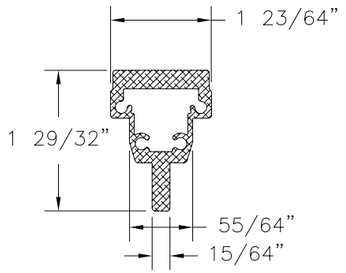
8 VENT EXTERIOR REBAR

EXTRUDED ALUMINUM 6063-T6 .102" THICK



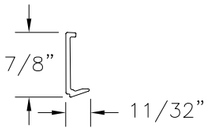
6 TRACK AND SNUBBER SCREW RECEIVER

EXTRUDED ALUMINUM 6063-T6 .070" THICK



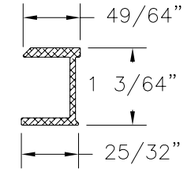
25 T-MULLION REINFORCEMENT

EXTRUDED ALUMINUM 6063-T6 .25" THICK



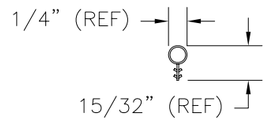
11 1 1/8" GLAZING BEAD

EXTRUDED RIGID PVC .039" THICK



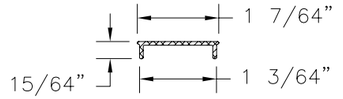
7 VENT INTERIOR SCREW RECEIVER AND REBAR

EXTRUDED ALUMINUM 6063-T6 .075" THICK



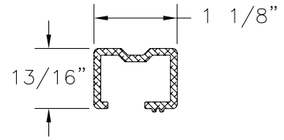
15 KERF APTUS VENT BULB SEAL

PLASTIC



30 FIXED VENT ATTACHMENT SCREW BACKUP

EXTRUDED ALUMINUM 6063-T6 .050" THICK



26 FIXED LITE SPACER AND SCREW RECEIVER

EXTRUDED ALUMINUM 6063-T6 .090" THICK

WinDoor INCORPORATED

7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505
www.windoorinc.com

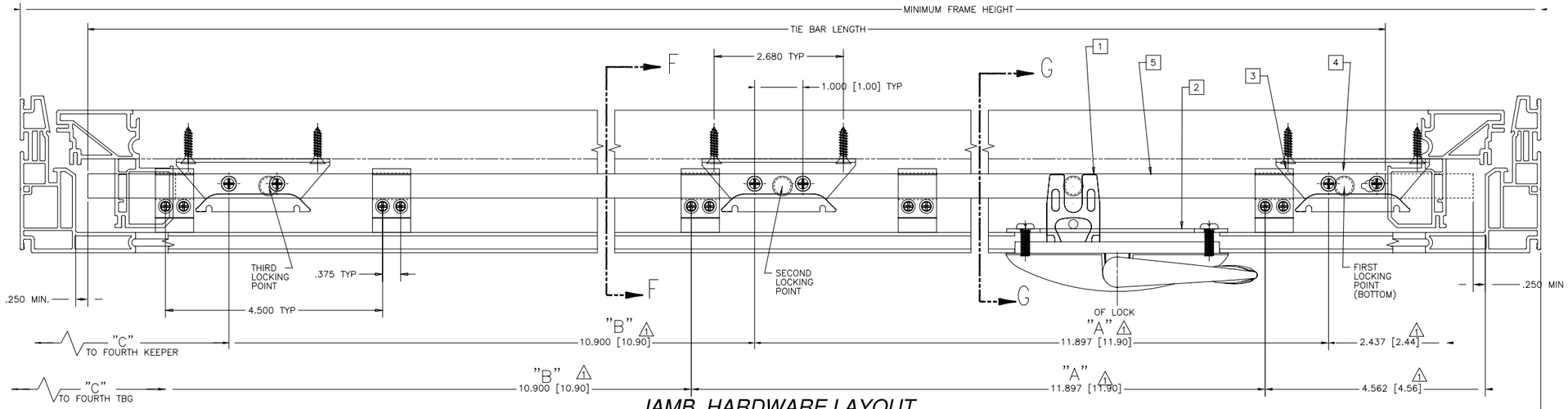
SERIES V-600/V-630 PVC SINGLE AND INTEGRAL MULLED CASEMENT WINDOW - SMI COMPONENTS

DRAWN:	DWG NO.	REV
TJH	08-01127	-
SCALE NTS	DATE 11/08/10	SHEET 8 OF 9

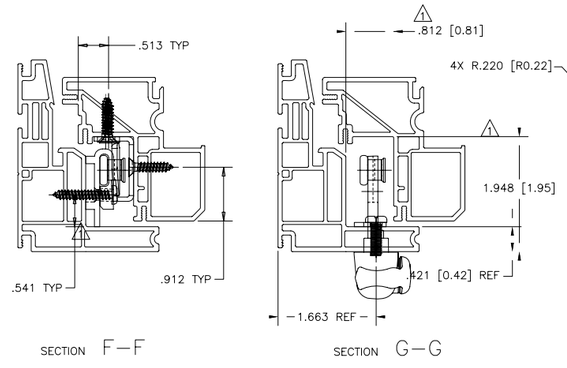
STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

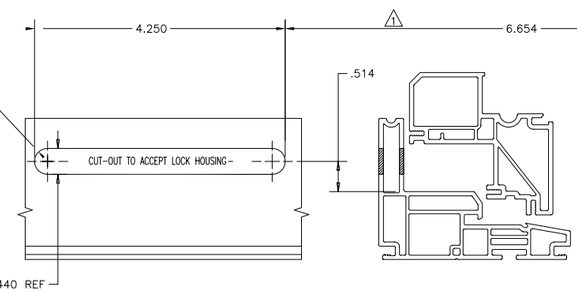
Luis R. Lomas P.E.
Texas No. 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



JAMB HARDWARE LAYOUT





75.52"	13098.92	6 PT.	70.9	13.69	14.13	13.00	13.00	13.00
75.52"	12927.92	4 PT.		23.90	22.90	20.00		
71.52"	13097.92	5 PT.	66.9	15.90	15.90	15.90	16.13	
71.52"	12926.92	4 PT.		21.90	20.90	20.00		
67.52"	13096.92	5 PT.	62.9	11.90	15.90	14.90	16.00	
67.52"	12925.92	4 PT.		19.90	18.90	20.00		
63.52"	13095.92	3 PT.	58.9	17.89	17.06	19.75		
	11922.92	3 PT.		27.90	26.90			
	11912.92	2 PT.		54.80				
59.52"	13094.92	3 PT.	54.9	15.89	16.06	18.75		
	11921.92	3 PT.		25.90	24.90			
	11911.92	2 PT.		50.80				
55.52"	13093.92	4 PT.	50.9	13.89	16.06	16.75		
	11920.92	3 PT.		23.90	22.90			
	11910.92	2 PT.		46.80				
51.52"	11919.92	3 PT.	46.9	21.90	20.90			
	11909.92	2 PT.		42.80				
47.52"	11918.92	3 PT.	42.9	19.90	18.90			
	11908.92	2 PT.		38.80				
43.52"	11917.92	3 PT.	38.9	17.90	16.90			
	11907.92	2 PT.		34.80				
39.52"	11916.92	3 PT.	34.9	15.90	14.90			
	11906.92	2 PT.		30.80				
35.52"	11915.92	3 PT.	30.9	13.90	12.90			
	11905.92	2 PT.		26.80				
31.52"	11914.92	3 PT.	26.9	11.90	10.90			
	11904.92	2 PT.		22.80				
27.52"	11903.92	2 PT.	22.9	18.80				
23.52"	11902.92	2 PT.	18.9	14.80				
19.52"	11901.92	2 PT.	14.9	10.80				
MINIMUM FRAME WIDTH	PART NO.	# OF LOCK POINTS	TIE BAR LENGTH	"A" DIM 1	"B" DIM 1	"C" DIM 1	"D" DIM 1	"E" DIM 1
INTERLOCK ROLLER TIE BAR ASSEMBLY								

ITEM #	PART NO.	2 PT.	3 PT.	4 PT.	DESCRIPTION
		QTY			
–	19225	6	9	12	SCREW 8X3/4 PH FH SMS SS410 (KEEPER)
–	19230.92	4	6	8	SCREW 8X1 PH PH SMS YZP (TBG)
–	19298.92	2	2	2	SCREW 10–24X9/16 F PH PH MS YZ(LOCK)
5	SEE CHART	1	1	1	TIE BAR ASSEMBLY
4	32832.00.0500	2	3	4	KEEPER, NON–HANDED SST
3	33263.00.0001	2	3	4	TIE BAR GUIDE
2	21600.92	1	1	1	SUPPORT PLATE
1	24.33.XX.004	1	1	1	LOCK ASSEMBLY

NOTES:

1. ACCURACY OF INDICATED DIMENSIONS IS CRITICAL TO THE FUNCTION OF THE MULTI–POINT LOCK.
2. "C" DIMENSION FOR THE FOURTH LOCKING POINT. FOR KEEPER AND TIE BAR GUIDE PLACEMENT, DIMENSION "C" ORIGINATES AT THE THIRD LOCKING POINT.
3. "A" AND "B" DIMENSIONS ARE CONFIGURED TO GIVE SEQUENTIAL AND PROGRESSIVE LOCKING OF 1/2" TOTAL, STARTING WITH THE FIRST(BOTTOM)LOCKING POINT, WITH A PROGRESSION OF 1/4" FROM THE FIRST LOCKING POINT TO THE SECOND LOCKING POINT, AND A 1/4" FROM THE SECOND LOCKING POINT TO THE THIRD LOCKING POINT. THE FOURTH LOCKING POINT MOVES IN TANDEM WITH THE THIRD LOCKING POINT.
4. TIE BAR TRAVEL IS 1.82"
5. ALL DIMENSIONS ARE AFTER WELD.
6. MOUNTING SCREWS FOR ALL HARDWARE SHOULD PASS THROUGH TWO PVC WALLS OR A SINGLE WALL WITH AN INTERIOR METAL INSERT.
7. SEE TRUTH HARDWARE CATALOG FOR FURTHER INFO ON APP–LICATION OF ALL COMPONENTS.

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