

THESE WINDOWS ARE NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

STEEL OUTSWING CASEMENT WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 1 THRU 3.

APPROVAL APPLIES TO SINGLE CASEMENT WINDOWS OR DOUBLE AND TRIPLE CASEMENT WINDOWS WITH INTEGRAL IMPOST.

ALSO ANY COMBINATION OF OPERATING OR FIXED UNITS USING INTEGRAL IMPOST IN BETWEEN.

ALSO SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR CASMT/FIX. IN MODULES OF TWO OR MORE WINDOWS USING FRAME JOINT MULLION IN BETWEEN.

SEE SHEET 8 FOR SIDE BY SIDE FRAME MULLION CAPACITY.

ALSO SIDE BY SIDE COMBINATIONS OF CASMT/CASMT OR CASEMENT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING FBC APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

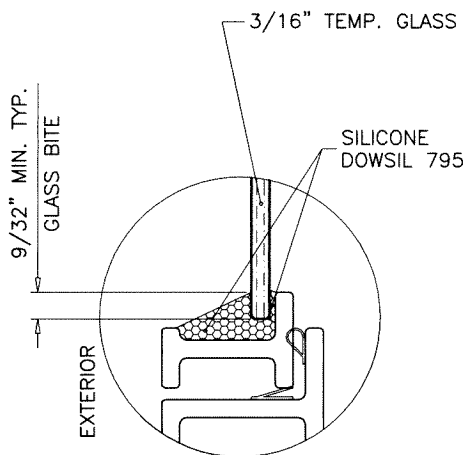
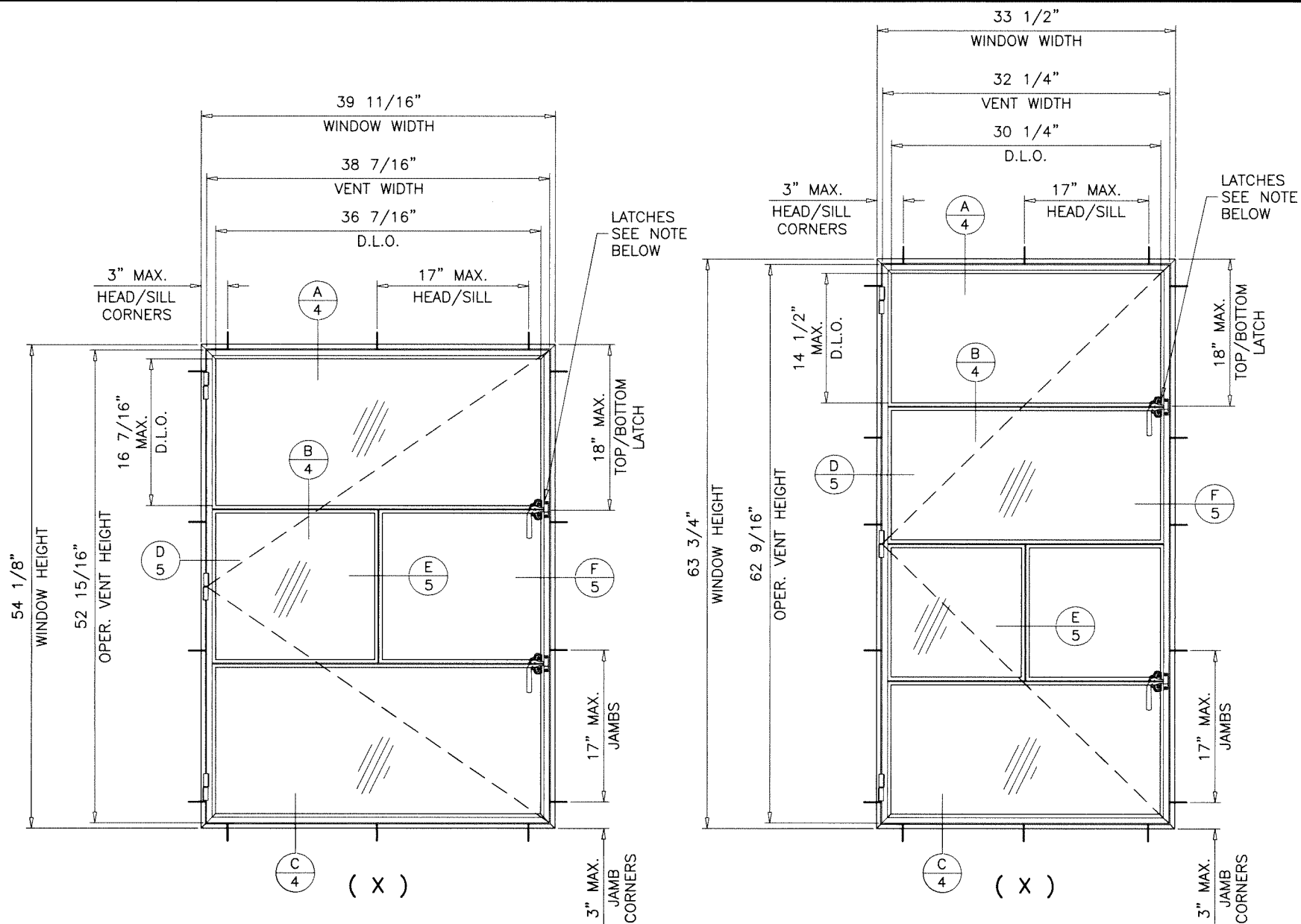
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.

LABELING TO COMPLY WITH SECTION 1709.9.2.



GLAZING DETAIL

NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

TYPICAL ELEVATIONS

MAXIMUM DESIGN LOAD RATING = + 54.0 PSF
(FOR MAX. SIZE SHOWN ABOVE OR SMALLER) - 72.0 PSF

LATCHES:
(2) LATCHES AT VENT ALIGNED WITH MUNTIN
NOT TO EXCEED 18" FROM TOP & BOTTOM ENDS.
FOR (1) LATCH AT MID HEIGHT LIMIT MAX.
WINDOW SIZE TO 19-5/8"W X 51-15/16"H.

Sealed: 9/20/2023

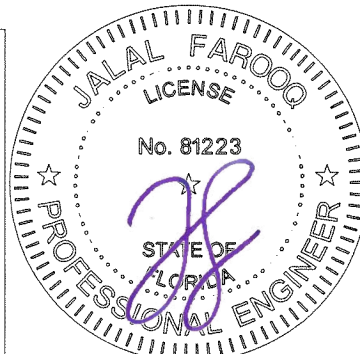
FL #30273

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



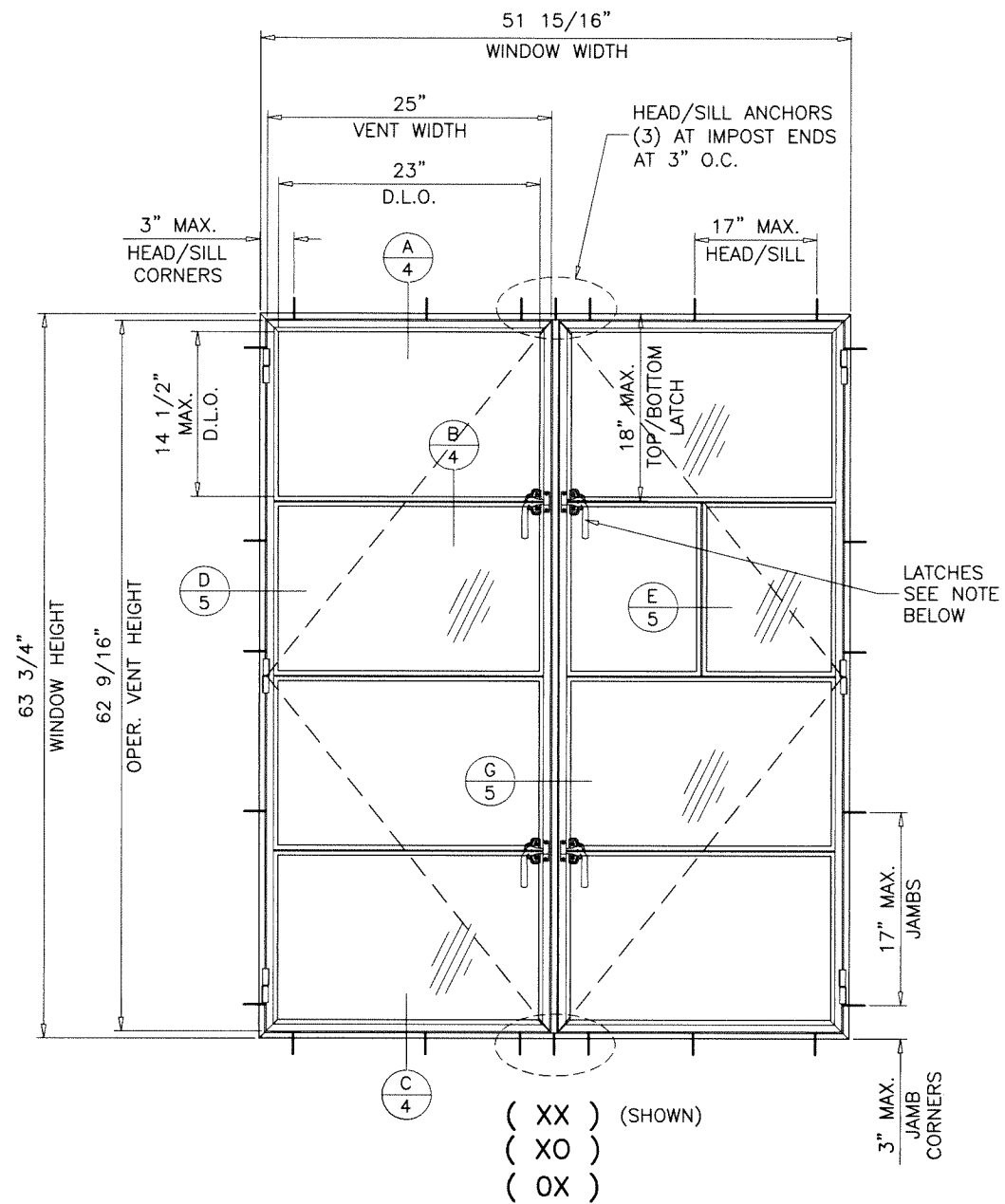
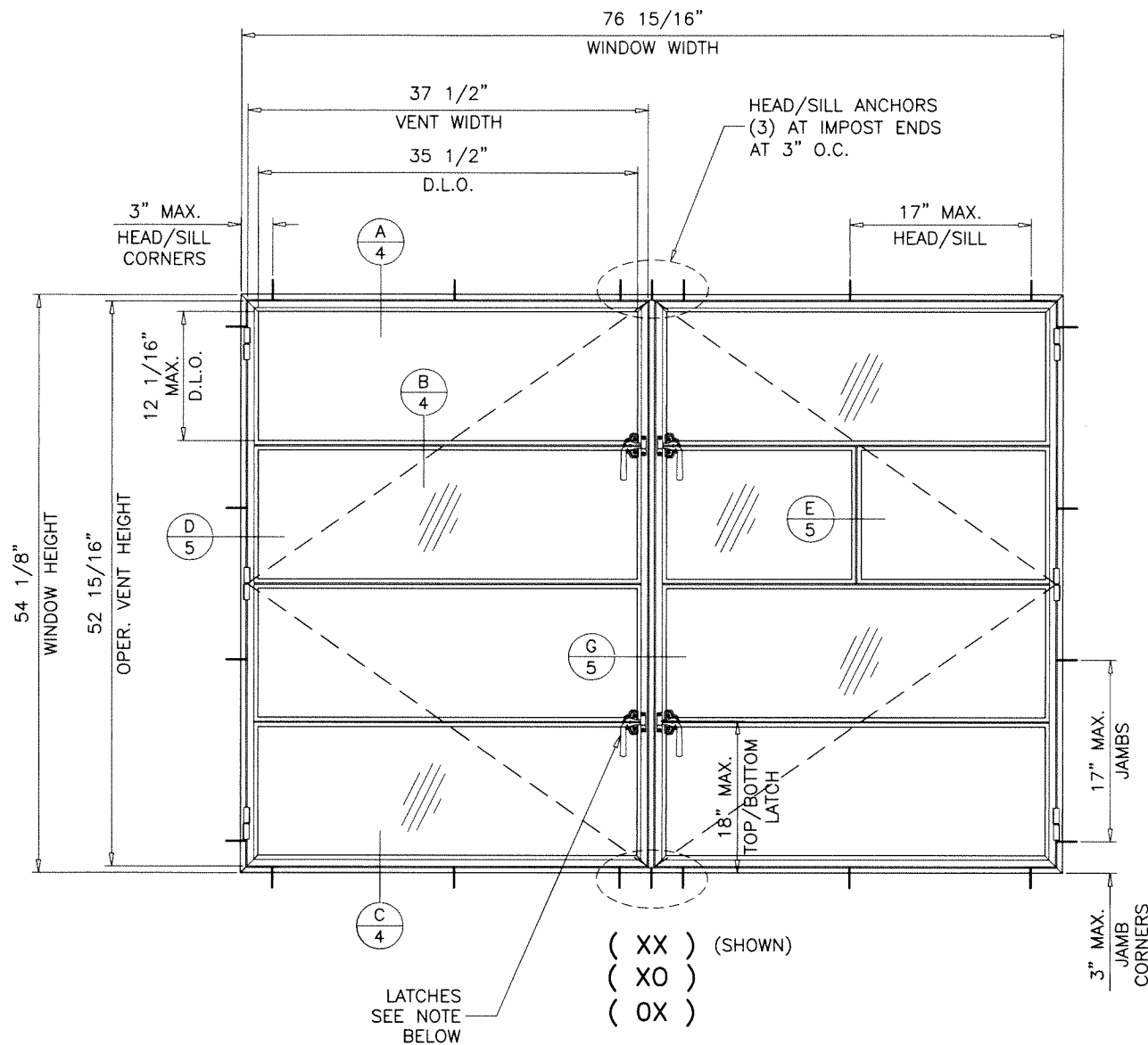
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-61F-RB

STEEL OUTSWING CASEMENT WDW. (N.I.)

Riviera Bronze
1895 N. Ventura Ave.
Ventura, CA. 93001
Tel: (805) 653-1943 Fax: (805) 653-1942

revisions:	no	date	description	by
	A	09.08.20	UPDATED TO 2020 FBC	
	B	09.06.23	UPDATED TO 2023 FBC	
date:	07-18-19			
scale:	3/4"=1'-0"			
dr. by:	TARIQ			
chk. by:				
drawing no.	19-61F			
sheet	1 of 9			



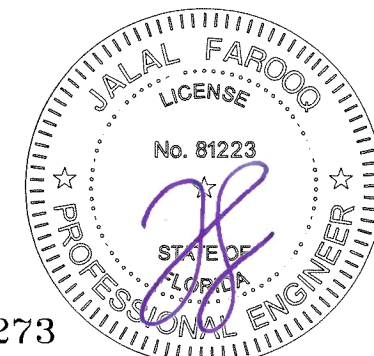
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(FOR MAX. SIZE SHOWN ABOVE OR SMALLER) - 72.0 PSF

LATCHES:
(2) LATCHES AT VENT ALIGNED WITH MUNTIN
NOT TO EXCEED 18" FROM TOP & BOTTOM ENDS.
FOR (1) LATCH AT MID HEIGHT LIMIT MAX.
WINDOW SIZE TO 41-5/8"W X 48-1/2"H.

NOTE:
GLASS CAPACITIES ARE BASED ON
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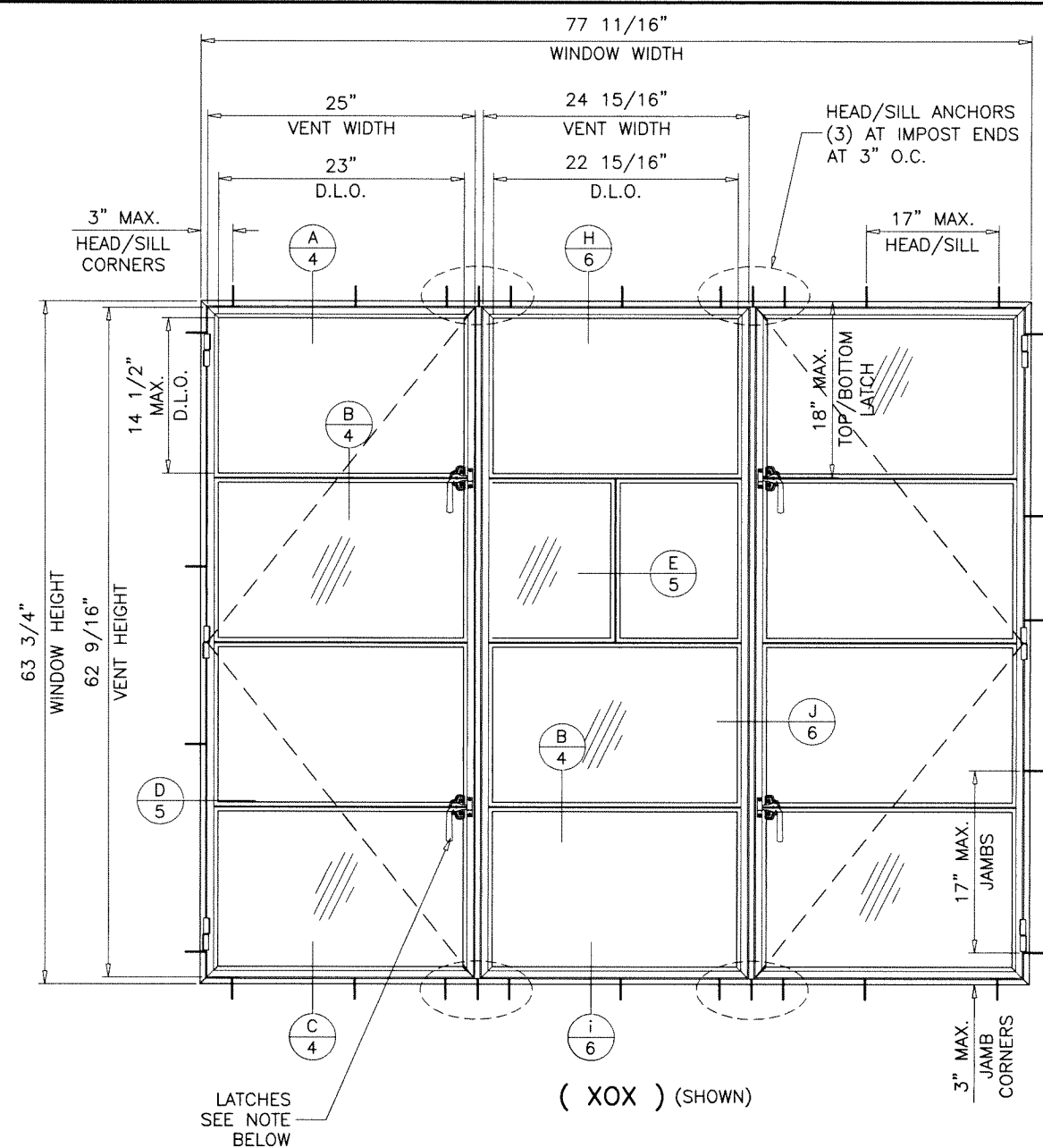
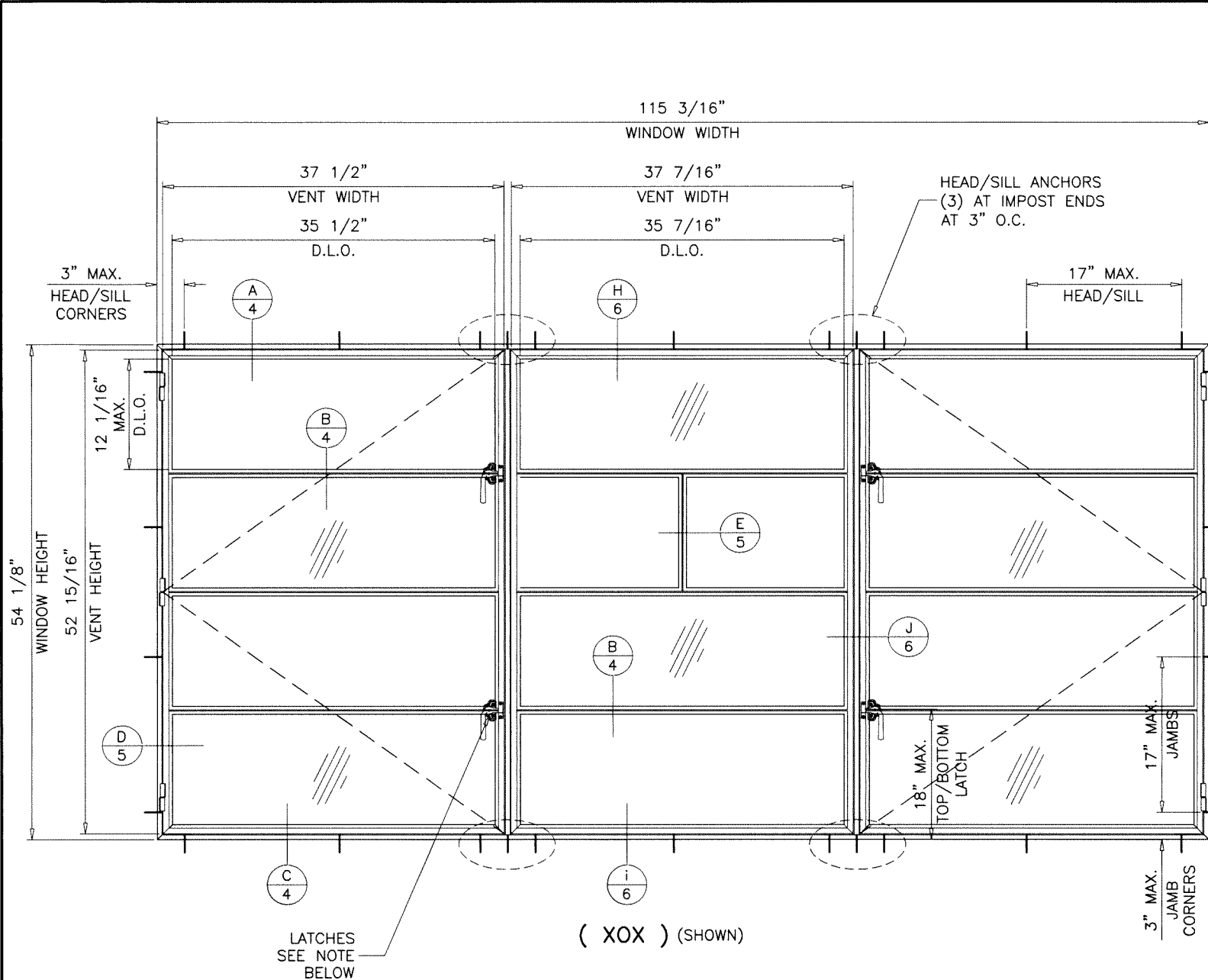
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scale:	3/4"=1'-0"			
dr. by:	TARIQ			
chk. by:				
drawing no.	19-61F			
sheet	2 of 9			



TYPICAL ELEVATIONS

MAXIMUM DESIGN LOAD RATING = + 54.0 PSF
(FOR MAX. SIZE SHOWN ABOVE OR SMALLER) - 72.0 PSF

LATCHES:
(2) LATCHES AT VENT ALIGNED WITH MUNTIN
NOT TO EXCEED 18" FROM TOP & BOTTOM ENDS.
FOR (1) LATCH AT MID HEIGHT LIMIT MAX.
WINDOW SIZE TO 63-5/8"W X 48-1/2"H.

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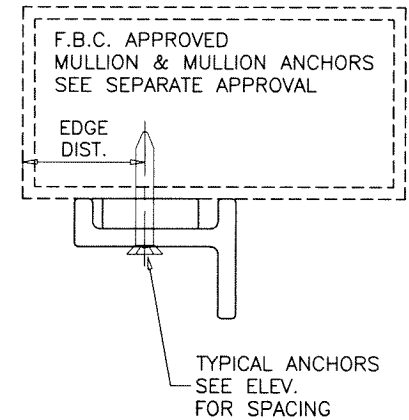
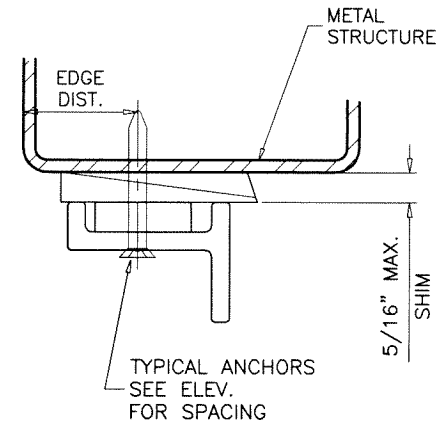
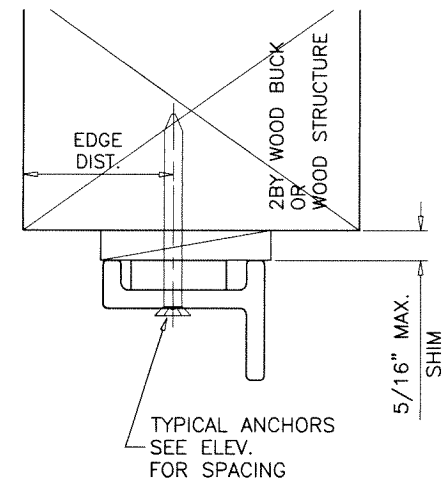
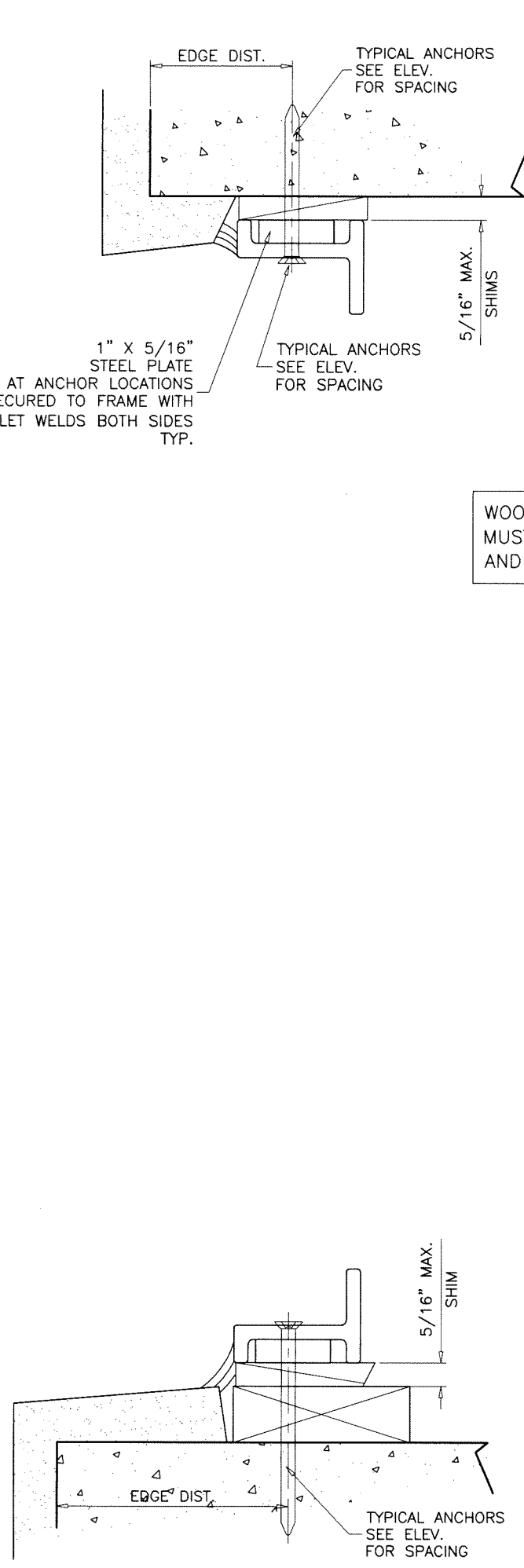
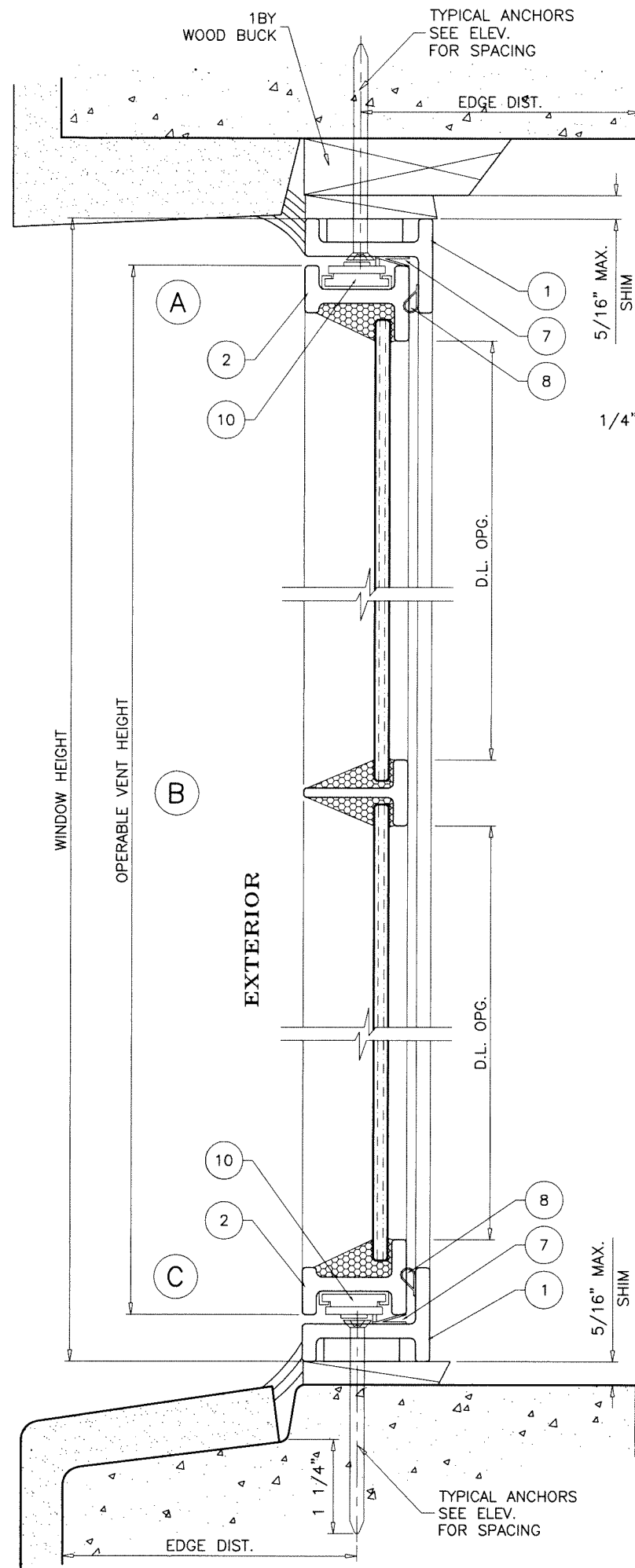
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sheet **3** of **9**

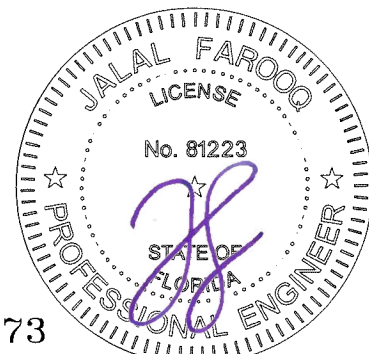


WOOD BUCKS AND METAL STRUCTURE NOT BY 'RIVIERA BRONZE' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. TAPCON BY 'ITW' ($F_u=125$ KSI, $F_y=100$ KSI)
1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
CRITICAL EDGE DISTANCE
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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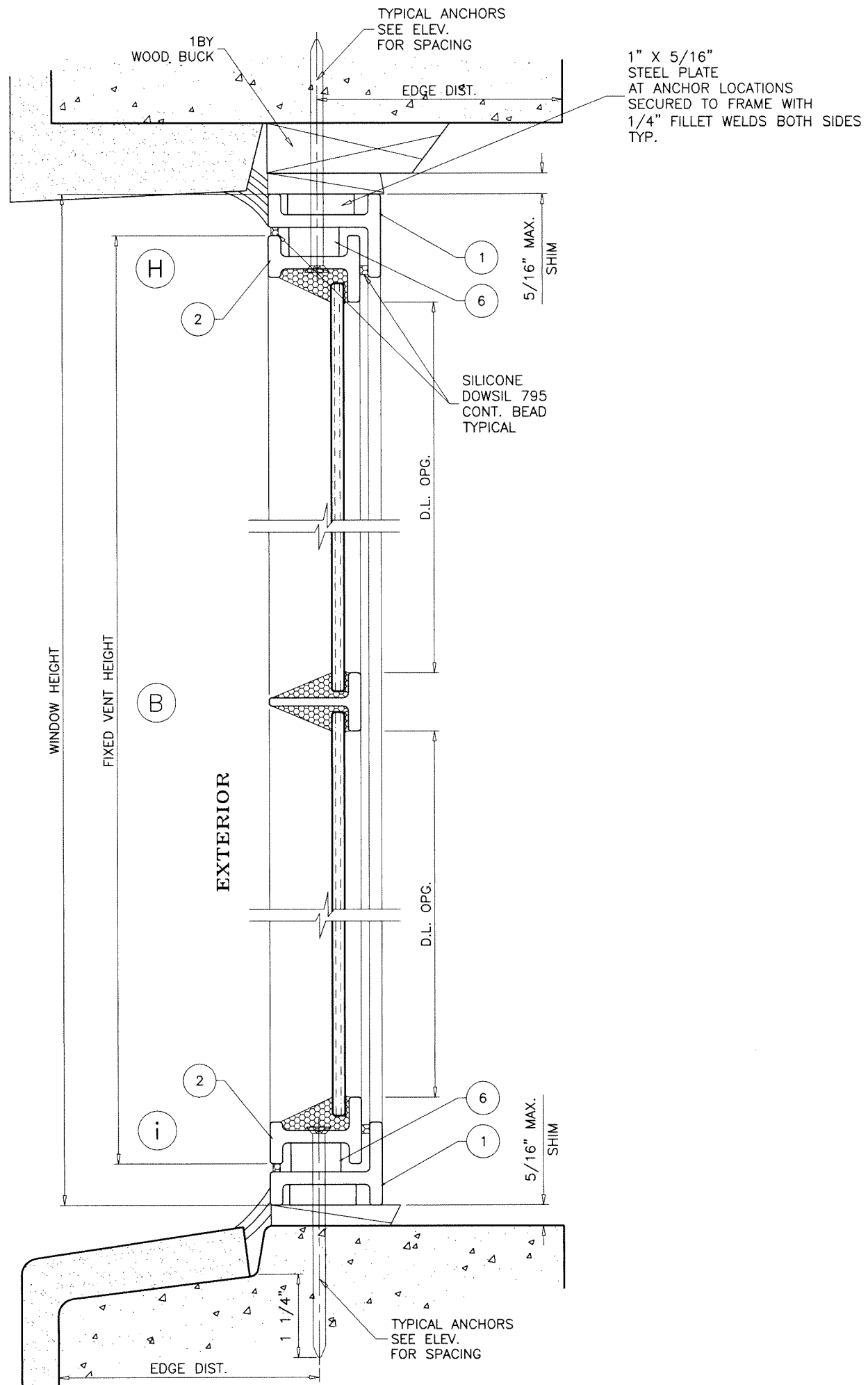
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Riviera Bronze
 1895 N. Ventura Ave.
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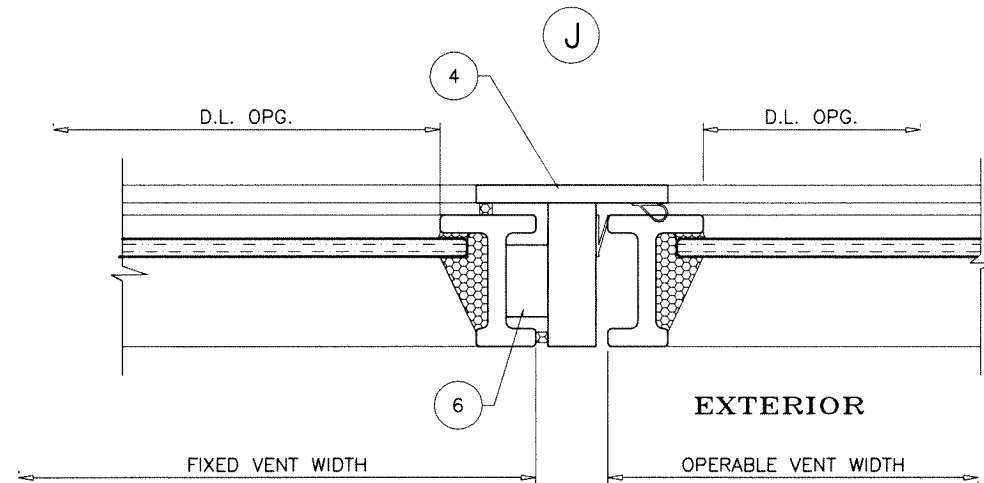
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FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN ON SHEETS 4 AND 5.



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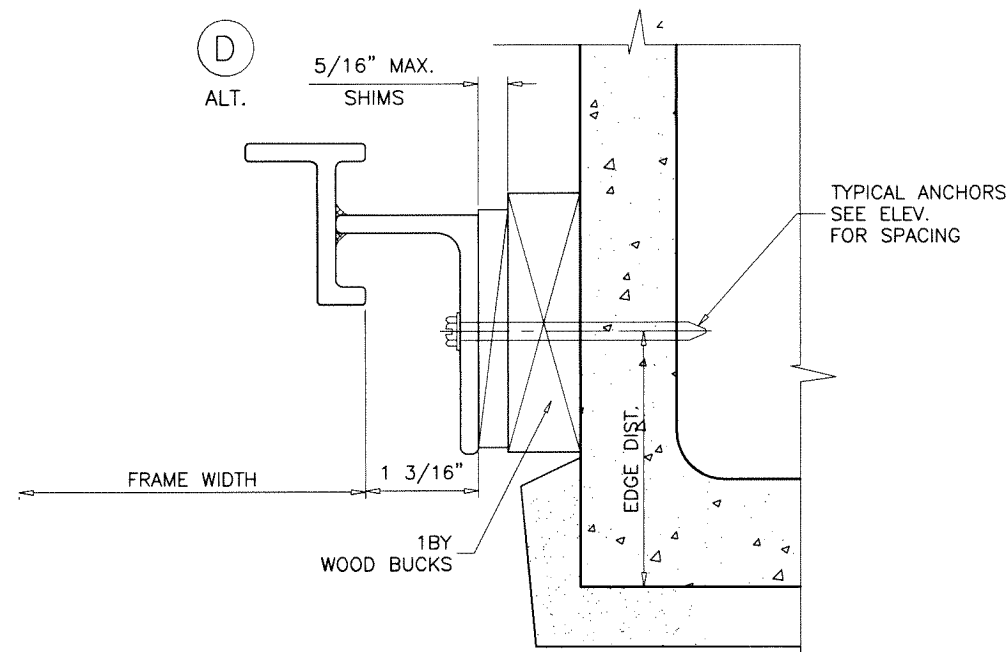
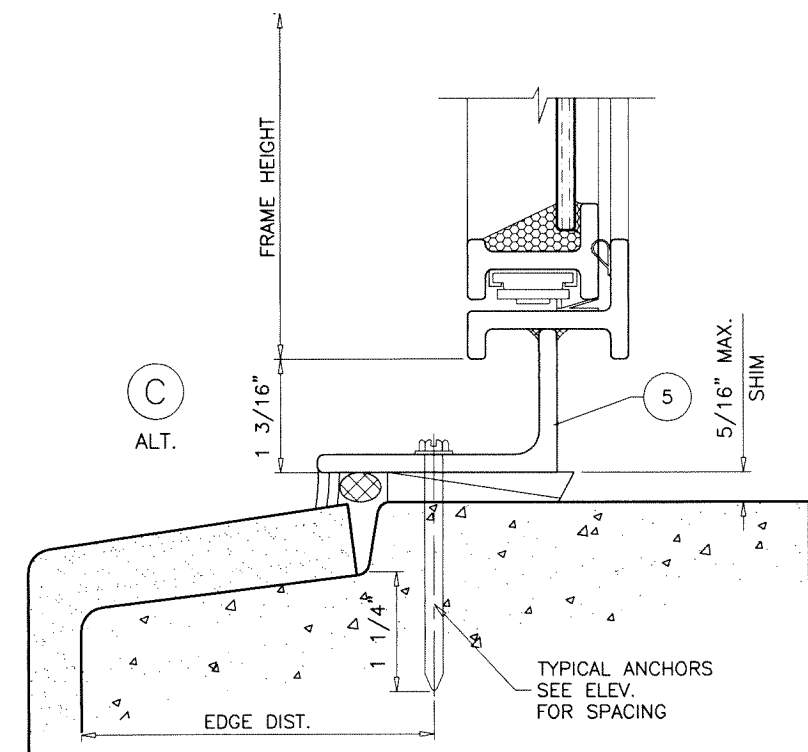
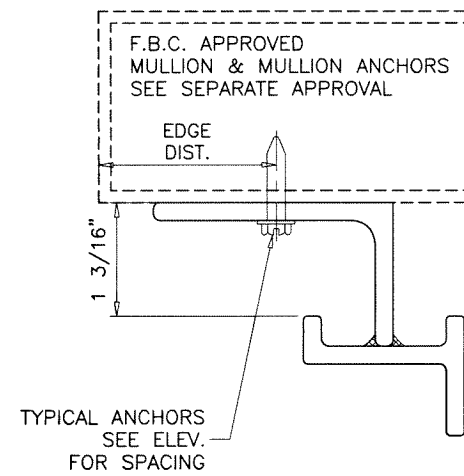
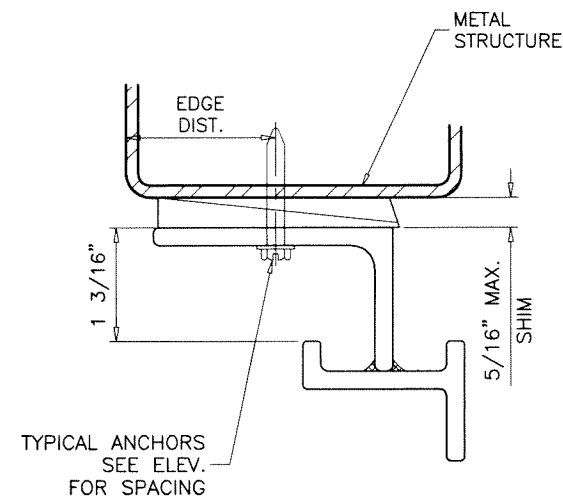
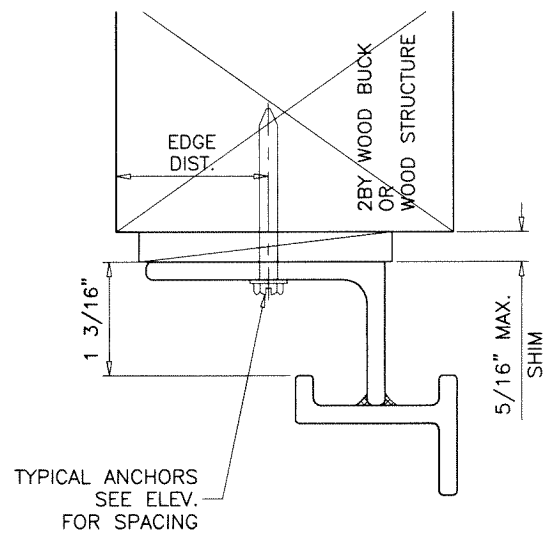
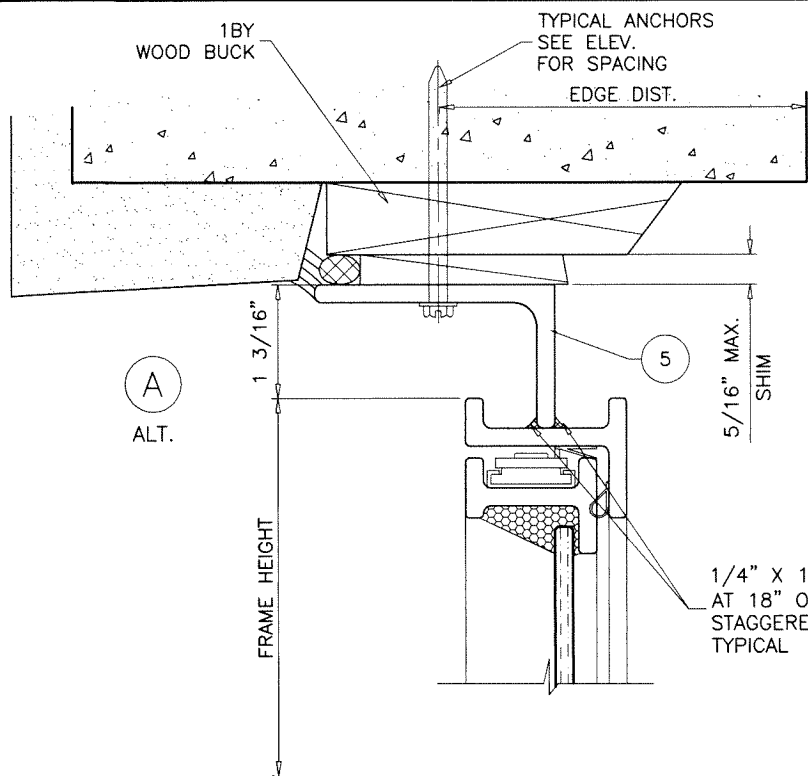
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19-61F
sheet **6** of **9**



INSTALLATION DETAILS WITH STRAP ANGLES
SEE SHEETS 4 THRU 6 FOR WINDOW DETAILS

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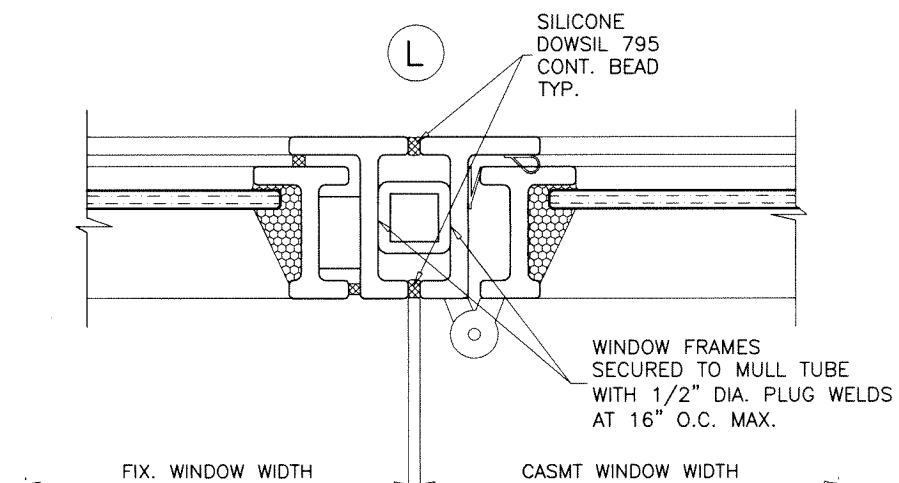
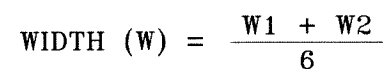
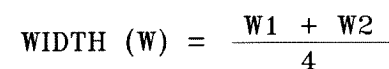
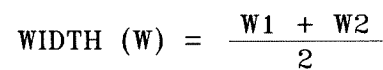
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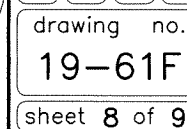
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chk.	by:		
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sheet 7 of 9			

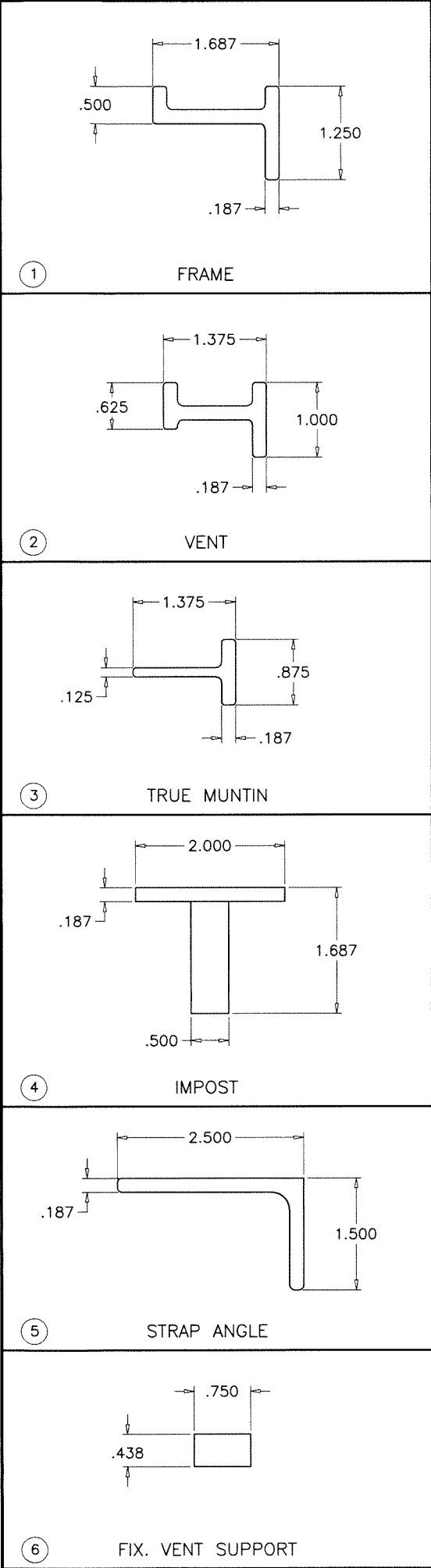


MULLION LOAD CAPACITY - PSF			
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)
23-3/4"	48"	54.0	72.0
19-11/32"	54-15/16"	54.0	72.0

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ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	4/ WDW.	FRAME	STEEL	S235JR
2	-	4/ WDW.	VENT	STEEL	S235JR
3	-	AS REQD.	TRUE MUNTIN	STEEL	S235JR
4	-	AS REQD.	IMPOST	STEEL	S235JR
5	-	AS REQD.	STRAP ANGLE	STEEL	S235JR
6	-	AS REQD.	FIXED VENT SUPPORT	STEEL	S235JR
7	-	AS REQD.	LEAF W'STRIPPING	VINYL	PEMKO S44
8	-	AS REQD.	BULB W'STRIPPING	VINYL	PEMKO 33
9	#6 X 1"	AS REQD.	FIXED VENT FASTENERS, AT 3" FROM ENDS & 13" O.C.	ST. STEEL	FH SMS
10	-	2/ VENT	HINGES	-	-
11	-	1/ VENT	OPERATOR	-	-
12	-	1/ VENT	MULTI POINT LOCK	-	-
13	-	AS REQD.	MULLION TUBE	STEEL	S235JR

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH DOWSIL 795 SILICONE.

WELDS:

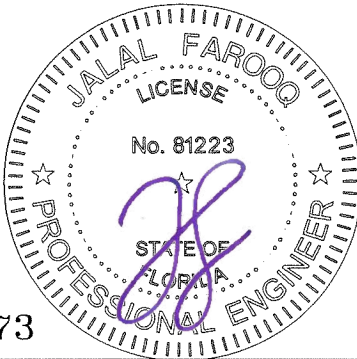
ALL VERTICAL AND HORIZONTAL MEMBERS TO BE SECURED WITH WELDS PER AWS SPECIFICATIONS
WELDING ELECTRODE = ER70 MIN.

LOCK:

SUN VALLEY BRONZE WINDOW LATCH #302 WITH CAST BRONZE LEVER
SECURED TO VENT WITH
(2) #8-32 BRASS MACHINE SCREWS WITH SLOTTED COUNTERSUNK HEAD
SEE ELEVATIONS FOR LOCATION

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