

GENERAL NOTES: SS-3500 IMPACT-RESISTANT STOREFRONT WINDOW SYSTEM

FLORIDA PRODUCT APPROVAL # 25574

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FBC, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, WHEN USED IN WIND-BORNE DEBRIS REGIONS.
3. GLAZING TYPE: SEE GLAZING DETAILS ON SHEET 15.
4. DESIGN PRESSURES:

A) NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300

B) POSITIVE DESIGN LOADS BASED ON WATER INFILTRATION, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300

C) DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
5. THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD.
6. INSTALLATION SCREWS & FRAME CORNERS TO BE SEALED WITH NARROW JOINT SEALANT.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING PRODUCT FRAMING, ANCHORAGE AND OPENING SUBSTRATES, SHALL BE COATED OR PROTECTED TO PREVENT CORROSIVE REACTIONS AS REQUIRED BY THE FLORIDA BUILDING CODE.
8. REFERENCES: ELCO ULTRACON & CRETEFLEX NOA'S, ITW TAPCON NOA; TEST REPORTS FTL-7137, 7208, 8717 & 17-7007

ANCHOR NOTES:

1. FOR CONCRETE/CMU SUBSTRATE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ANCHORS. SEE TABLE 1 ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
2. FOR SUBSTRATE APPLICATIONS SEE TABLE 1 ON THIS SHEET.
3. WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
4. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
5. METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER THE FBC AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
6. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

INSTRUCTIONS:

1. DETERMINE THE BUILDING'S REQUIRED DESIGN PRESSURE USING THE ASCE 7 STANDARD. THE PRODUCT'S DESIGN PRESSURE MUST MEET OR EXCEED THIS VALUE.
2. DETERMINE THE ANCHOR TYPE FROM TABLE 1, SHEET 1.
3. DETERMINE THE GLASS DESIGN PRESSURE FROM TABLE 2, SHEET 4.
4. JAMB ANCHOR SPACING IS GIVEN IN TABLES 5 & 6, SHEETS 7 & 8 AND HAVE BEEN CALCULATED FOR THE PRODUCT'S MAXIMUM DP.
5. MID-PANEL ANCHOR QUANTITIES ARE GIVEN IN TABLES 7 & 8, SHEETS 9 & 10 AND HAVE BEEN CALCULATED FOR THE PRODUCT'S MAXIMUM DP.
6. IF THE STOREFRONT WINDOW IS ATTACHED TO ANOTHER WINDOW THROUGH A COMMON MULLION:

A) DETERMINE THE MULLION DESIGN PRESSURE FROM TABLE 9, SHEET 11.

B) DETERMINE THE MAXIMUM DESIGN PRESSURE DUE TO MULLION CLUSTER ANCHORAGE FROM TABLES 3 OR 4, SHEETS 5-6 BASED ON YOUR SHIM SPACE, ANCHOR TYPE AND THE QUANTITY OF ANCHORS REQUIRED TO ATTAIN THE REQUIRED DESIGN PRESSURE.
7. THE LOWEST DESIGN PRESSURE FROM 3 & 6 ABOVE, SHALL BE USED FOR THE ENTIRE ASSEMBLY.
8. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

TABLE 1:

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment	Min. O.C. Distance
A	#14 Steel or 410 SS SMS (G5)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"	1"
B	#14 Steel or 410 SS SMS (G5)	Aluminum, 6063-T5* (0.125" min. thickness)	3/8"	1/8"	5/8"
		Steel, A36* (0.125" min. thickness)	3/8"	1/8"	5/8"
C	1/4" Elco Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/8"	3"
		Grout-Filled CMU, (ASTM C-90)	2-1/2"	1-3/4"	4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"	6"
	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ksi)	2-1/2"	1-3/4"	3"
		Concrete (min. 3.00 ksi)	2-1/2"	1-3/8"	4"
		Grout-Filled CMU, (ASTM C-90)	2-1/2"	1-3/4"	4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"	3"
	1/4" Elco 410 S.S. CreteFlex	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"	6"
	5/16" Elco Ultracon	Ungrouted CMU, (ASTM C-90)	3-1/8"	1-1/4"	6"
D	1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"	3"
	5/16" Elco Ultracon	Concrete (min. 3.52 ksi)	3-1/8"	2"	3"
		Grout-Filled CMU, (ASTM C-90)	2-1/2"	2-1/4"	5"
E	3/8" Large Diameter ITW Tapcon	Concrete (min. 3 ksi)	3"	1-1/2"	4"
		Ungrouted CMU, (ASTM C-90)	3"	1-1/2"	6"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

FOR STEEL STUDS, MIN. FU=45 KSI & MIN. FY=33 KSI.

"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

ALL ANCHOR HEAD TYPES ARE ALLOWED.

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THIS SYSYTEM HAS BEEN TESTED TO MEET THE 400 FT-LB KINETIC ENERGY IMPACT LOADING REQUIREMENTS OF ANSI Z97.1.

Anthony Lynn Miller

LICENSE

No. 58705

9/22/20

STATE OF FLORIDA

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Revised By: JR

Date: 09/15/20

Revision: ADDED ULTRACON+ ANCHORS AND REVERSED GLAZING.

Revised By:

Date:

Revision:

Description: GENERAL NOTES

Drawn By: J ROSOWSKI

Title: STOREFRONT WINDOW SYSTEM DETAILS - LM

Date: 03/23/16

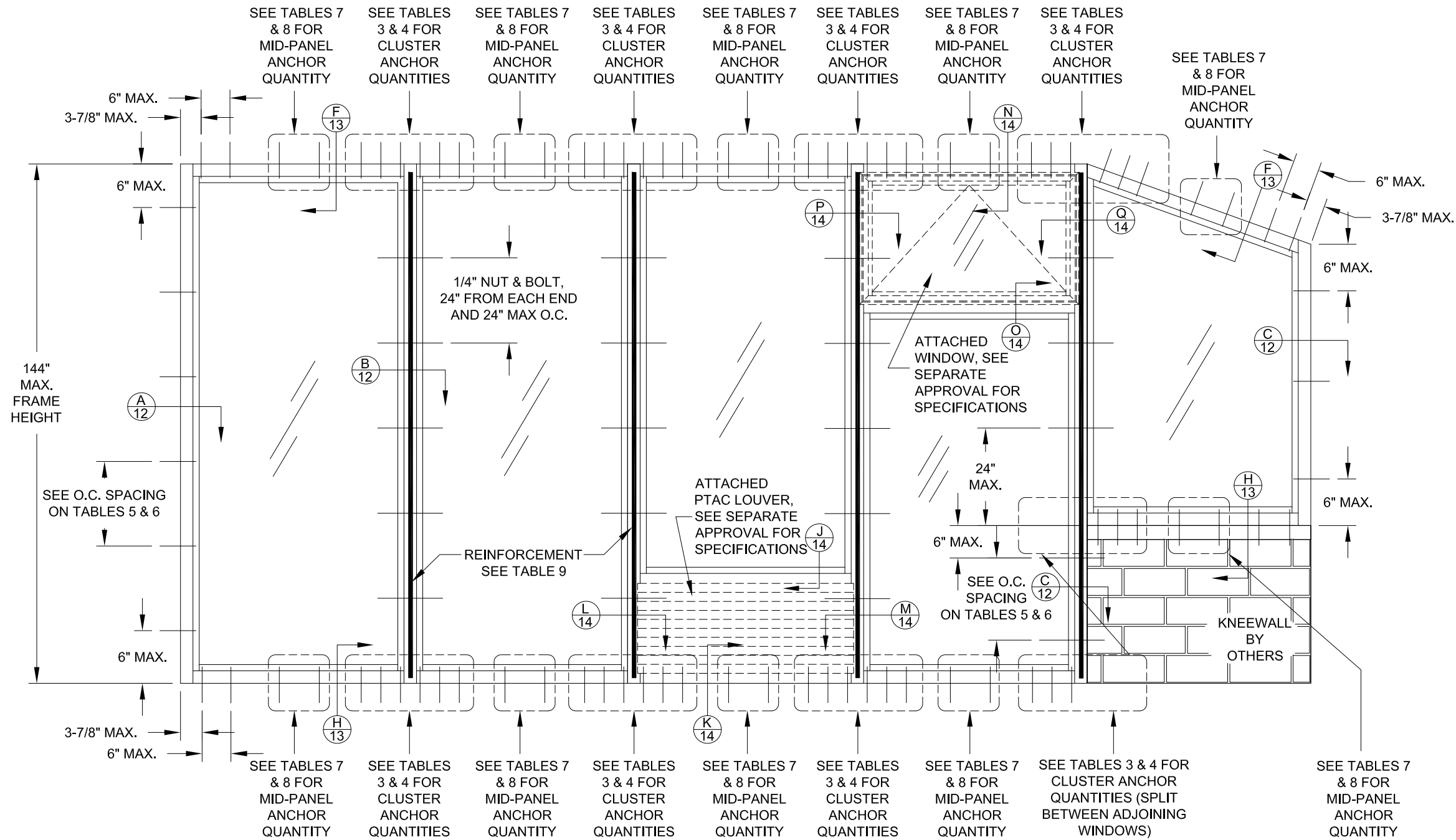
Series/Model: SS-3500

Scale: NTS

Sheet: 1 OF 16

Drawing No. MD-3500-2-LM

Rev: A



**TYP. ELEVATION OF STOREFRONT WINDOW SYSTEM
WITH EXAMPLES OF WINDOW INSERT, PTAC INSERT,
KNEEWALL & ANGLED HEADER**

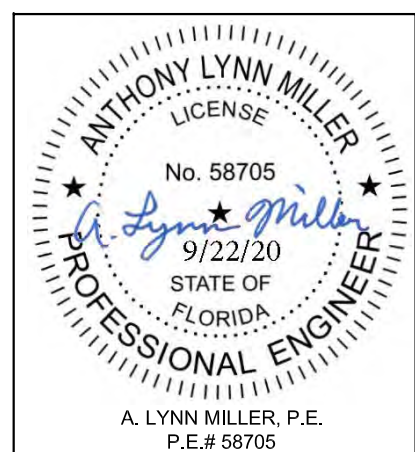
NOTES:

1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. SEE TABLES FOR MAXIMUM ALLOWED SIZES.
3. AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED WINDOW WITH A FLANGED FRAME.
4. SEE SHEET 4 FOR DAYLIGHT OPENING (DLO) FORMULAS.
5. MULTIPLE INSERTS WITHIN THE SAME STOREFRONT WINDOW ALLOWED.



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ELEVATION B

STOREFRONT WINDOW SYSTEM DETAILS - LM

SS-3500

NTS

3 OF 16

MD-3500-2-LM

03/23/16

J ROSOWSKI

Rev. Description

A

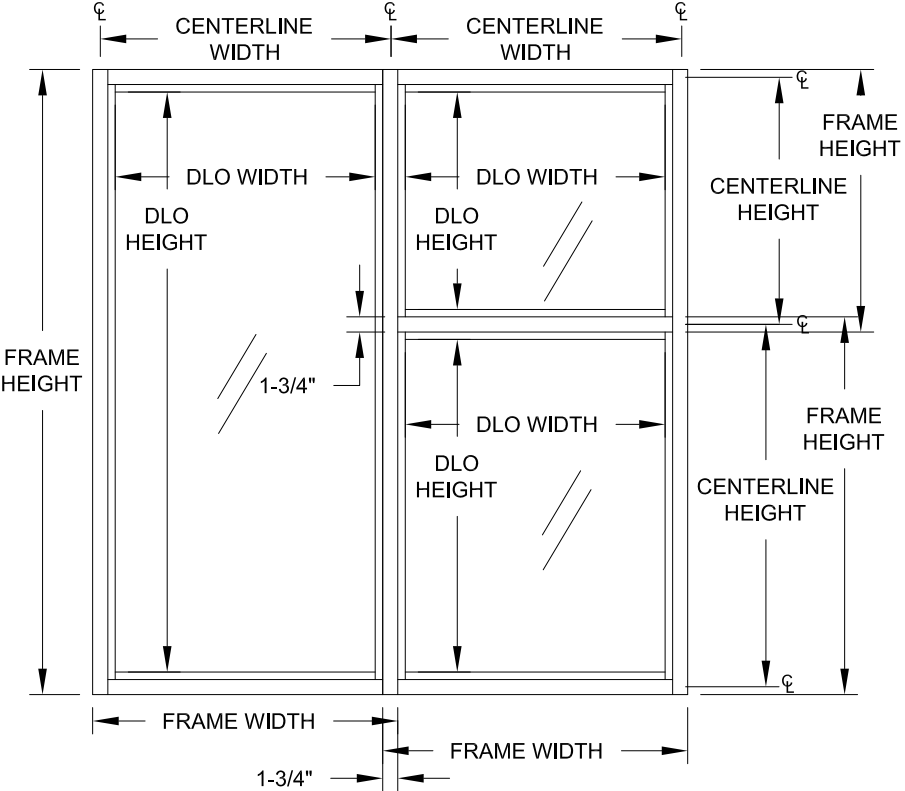
TABLE 2:

Glass DP, (psf) & Maximum Size						
Centerline Width	Frame Height	DLO Width	DLO Height	Glass Type A & C	Glass Type B, E & E1	Glass Type C, F & F1
24"	48"	20-1/4"	42-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+90/-90	+70/-80	+90/-120
54"		50-1/4"		+90/-90	+70/-80	+90/-120
60"		56-1/4"		+90/-90	+70/-80	+90/-120
70"		66-1/4"		+90/-90	+70/-80	+90/-120
72"		68-1/4"		+90/-90	+70/-80	+90/-120
84"		80-1/4"		+84.5/-84.5	+70/-80	+90/-120
90"		86-1/4"		+82.3/-82.3	+70/-80	+90/-120
92"		88-1/4"		+81.7/-81.7	+70/-80	+90/-120
96"		92-1/4"		+80.5/-80.5	+70/-80	+90/-120
102"		98-1/4"				+90/-120
108"		104-1/4"				+90/-120
120"		116-1/4"				+90/-120
132"		128-1/4"				+90/-100
144"		140-1/4"				+90/-100
24"	60"	20-1/4"	54-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+90/-90	+70/-80	+90/-120
54"		50-1/4"		+90/-90	+70/-80	+90/-120
60"		56-1/4"		+90/-90	+70/-80	+90/-120
70"		66-1/4"		+84.5/-84.5	+70/-80	+90/-120
72"		68-1/4"		+82.8/-82.8	+70/-80	+90/-120
84"		80-1/4"				+90/-119.5
90"		86-1/4"				+90/-115.2
92"		88-1/4"				+90/-114
96"		92-1/4"				+90/-111.7
102"		98-1/4"				+90/-100
108"		104-1/4"				+90/-100
120"		116-1/4"				+90/-100
24"	72"	20-1/4"	66-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+90/-90	+70/-80	+90/-120
54"		50-1/4"		+85.8/-85.8	+70/-80	+90/-120
60"		56-1/4"		+82.8/-82.8	+70/-80	+90/-120
70"		66-1/4"				+90/-120
72"		68-1/4"				+90/-120
84"		80-1/4"				+90/-100
90"		86-1/4"				+90/-100
92"		88-1/4"				+90/-100
96"		92-1/4"				+90/-100
24"	78"	20-1/4"	72-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+87.2/-87.2	+70/-80	+90/-120
54"		50-1/4"		+82.1/-82.1	+70/-80	+90/-120
60"		56-1/4"		+78.5/-78.5	+70/-78.5	+90/-120
70"		66-1/4"				+90/-119.4
72"		68-1/4"				+90/-118.9
84"		80-1/4"				+90/-100
90"		86-1/4"				+90/-100
92"		88-1/4"				+90/-100
24"	84"	20-1/4"	78-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+84.5/-84.5	+70/-80	+90/-120
54"		50-1/4"		+79.1/-79.1	+70/-79.1	+90/-120
60"		56-1/4"				+90/-119.5
70"		66-1/4"				+90/-100
72"		68-1/4"				+90/-100
84"		80-1/4"				+90/-100

Glass DP, (psf) & Maximum Size						
Centerline Width	Frame Height	DLO Width	DLO Height	Glass Type A & C	Glass Type B, E & E1	Glass Type C, F & F1
24"	90"	20-1/4"	84-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+82.3/-82.3	+70/-80	+90/-120
54"		50-1/4"				+90/-120
60"		56-1/4"				+90/-115.2
70"		66-1/4"				+90/-100
72"		68-1/4"				+90/-100
24"	97-3/4"	20-1/4"	92-1/4"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+87.9/-87.9	+70/-80	+90/-120
48"		44-1/4"		+80/-80	+70/-80	+90/-120
54"		50-1/4"				+90/-117.9
60"		56-1/4"				+90/-100
70"		66-1/4"				+90/-100
72"		68-1/4"				+90/-98.9
24"	102"	20-1/4"	96-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+86.9/-86.9	+70/-80	+90/-120
48"		44-1/4"				+90/-120
54"		50-1/4"				+90/-116.1
60"		56-1/4"				+90/-100
70"		66-1/4"				+90/-97.9
24"	108"	20-1/4"	102-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+85.6/-85.6	+70/-80	+90/-120
48"		44-1/4"				+90/-120
54"		50-1/4"				+90/-100
60"		56-1/4"				+90/-100
24"	114"	20-1/4"	108-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"				+90/-120
48"		44-1/4"				+90/-120
54"		50-1/4"				+90/-100
60"		56-1/4"				+90/-100
24"	120"	20-1/4"	114-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"				+90/-120
48"		44-1/4"				+90/-120
54"		50-1/4"				+90/-100
60"		56-1/4"				+90/-100
24"	126"	20-1/4"	120-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"				+90/-120
48"		44-1/4"				+90/-100
54"		50-1/4"				+90/-100
24"	132"	20-1/4"	126-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"				+90/-120
42"		38-1/4"				+90/-120
48"		44-1/4"				+90/-100
54"		50-1/4"				+90/-100
24"	138"	20-1/4"	132-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"				+90/-120
42"		38-1/4"				+90/-100
48"		44-1/4"				+90/-100
24"	144"	20-1/4"	138-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"				+90/-120
42"		38-1/4"				+90/-100
48"		44-1/4"				+90/-100

Glass Types	
A	Lami: 1/4"A, .090" SG, 1/4"A
B	Lami: 1/4"HS, .090" PVB, 1/4"HS
C	Lami: 1/4"HS, .090" SG, 1/4"HS
D	Lami IG: 1/4"A, .090" SG, 1/4"A, AIRSPACE, 1/4" T CAP
E	Lami IG: 1/4"HS, .090" PVB, 1/4"HS, AIRSPACE, 1/4" T CAP
E1	Reversed Lami IG: 1/4"HS, .090" PVB, 1/4"HS, AIRSPACE, 1/4" T CAP
F	Lami IG: 1/4"HS, .090" SG, 1/4"HS, AIRSPACE, 1/4" T CAP
F1	Reversed Lami IG: 1/4"HS, .090" SG, 1/4"HS, AIRSPACE, 1/4" T CAP

SEE SHEET 15 FOR FULL GLASS DESCRIPTIONS.



DLO (DAYLIGHT OPENING) FORMULAS:

FRAME WIDTH - 5-1/2" = DLO WIDTH
FRAME HEIGHT - 5-1/2" = DLO HEIGHT

CENTERLINE WIDTH - 3-3/4" = DLO WIDTH
CENTERLINE HEIGHT - 3-3/4" = DLO HEIGHT

CENTERLINE WIDTH - 2-1/4" = GLASS WIDTH
CENTERLINE HEIGHT - 2-1/4" = GLASS HEIGHT
FRAME WIDTH - 4" = GLASS WIDTH
FRAME HEIGHT - 4" = GLASS HEIGHT

NOTES:

- 1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
- 2. DLO = DAYLIGHT OPENING
- 3. SEE SHEET 15 FOR DESCRIPTIONS OF GLASS TYPES.

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Rev. Description

Rev. A

By

J ROSOWSKI

Sheet

4 OF 16

Scale

NTS

Title

SS-3500

Desc.

STOREFRONT WINDOW SYSTEM DETAILS - LM

Series

MD-3500-2-LM

Date

03/23/16

Rev.

03/23/16

Added

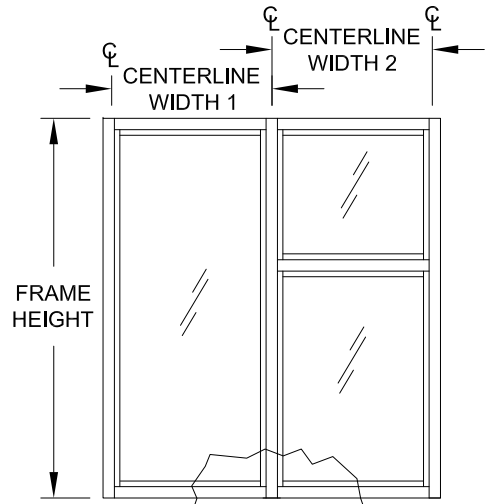
ADDED REVESED GLZ.

TABLE 3:

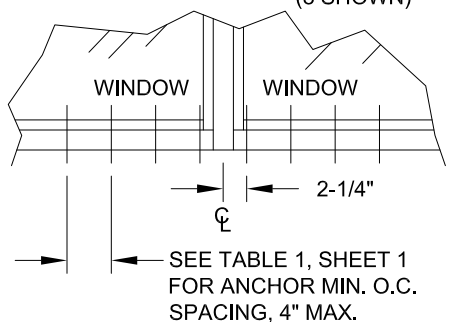
Mullion Anchor Cluster Design Pressure at Head/Sill, (+/- psf)														Shim Thickness: 1/4"		
Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity			Group "E" Anchor Quantity		
		4	6	8	4	6	8	4	6	8	4	6	8	4	6	
24"	48"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
102"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
132"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
144"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0		
24"	60"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
102"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
24"		72"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
36"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
48"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
70"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
72"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
84"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
90"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
92"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
96"	120.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
24"	78"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
70"		118.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
72"		113.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
84"		112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
90"		111.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
92"		111.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
96"		111.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
24"		84"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"			120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"	118.1		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54"	110.5		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"	105.0		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
70"	99.2		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
72"	98.4		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
84"	96.4		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	

Mullion Anchor Cluster Design Pressure at Head/Sil, (+/- psf)														Shim Thickness: 1/4"	
Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity			Group "E" Anchor Quantity	
		4	6	8	4	6	8	4	6	8	4	6	8	4	6
24"	90"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		117.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		107.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		94.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		88.4	120.0	120.0	120.0	120.0	120.0	120.0	118.2	120.0	120.0	120.0	120.0	120.0	120.0
72"	87.5	120.0	120.0	120.0	120.0	120.0	120.0	117.0	120.0	120.0	120.0	120.0	120.0	120.0	
24"	97-3/4"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		118.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		105.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		96.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		89.0	120.0	120.0	120.0	120.0	120.0	119.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		83.7	120.0	120.0	115.9	120.0	120.0	111.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		77.4	116.2	120.0	107.2	120.0	120.0	103.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"	76.5	114.8	120.0	105.9	120.0	120.0	102.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
24"	102"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		84.0	120.0	120.0	116.3	120.0	120.0	112.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		72.5	108.8	120.0	100.4	120.0	120.0	97.0	120.0	120.0	114.7	120.0	120.0	120.0	120.0
24"	108"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		84.0	120.0	120.0	116.3	120.0	120.0	112.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		72.5	108.8	120.0	100.4	120.0	120.0	97.0	120.0	120.0	114.7	120.0	120.0	120.0	120.0
24"	108"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		84.0	120.0	120.0	116.3	120.0	120.0	112.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		72.5	108.8	120.0	100.4	120.0	120.0	97.0	120.0	120.0	114.7	120.0	120.0	120.0	120.0
24"	108"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		84.0	120.0	120.0	116.3	120.0	120.0	112.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		72.5	108.8	120.0	100.4	120.0	120.0	97.0	120.0	120.0	114.7	120.0	120.0	120.0	120.0
24"	108"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		84.0	120.0	120.0	116.3	120.0	120.0	112.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		72.5	108.8	120.0	100.4	120.0	120.0	97.0	120.0	120.0	114.7	120.0	120.0	120.0	120.0
24"	114"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		114.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		98.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		87.1	120.0	120.0	120.0	120.0	120.0	116.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		72.4	108.6	120.0	100.3	120.0	120.0	96.9	120.0	120.0	114.5	120.0	120.0	120.0	120.0
60"		67.5	101.2	120.0	93.5	120.0	120.0	90.3	120.0	120.0	106.7	120.0	120.0	112.7	120.0
70"		63.0	94.5	120.0	87.2	120.0	120.0	84.3	120.0	120.0	99.6	120.0	120.0	105.2	120.0
24"	120"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		108.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		92.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		81.8	120.0	120.0	113.3	120.0	120.0	109.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		73.8	110.7	120.0	102.2	120.0	120.0	98.8	120.0	120.0	116.8	120.0	120.0	120.0	120.0
54"		67.7	101.6	120.0	93.8	120.0	120.0	90.6	120.0	120.0	107.1	120.0	120.0	113.1	120.0
60"		63.0	94.5	120.0	87.2	120.0	120.0	84.3	120.0	120.0	99.6	120.0	120.0	105.2	120.0
70"		63.0	94.5	120.0	87.2	120.0	120.0	84.3	120.0	120.0	99.6	120.0	120.0	105.2	120.0
24"	126"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		102.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		87.5	120.0	120.0	120.0	120.0	120.0	117.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		77.1	115.7	120.0	106.8	120.0	120.0	103.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		69.5	104.2	120.0	96.2	120.0	120.0	92.9	120.0	120.0	109.9	120.0	120.0	116.0	120.0
54"		63.6	95.5	120.0	88.1	120.0	120.0	85.1	120.0	120.0	100.6	120.0	120.0	106.2	120.0
60"		63.6	95.5	120.											

$$\text{AVERAGE CENTERLINE WIDTH} = \frac{\text{CENTERLINE WIDTH 1} + \text{CENTERLINE WIDTH 2}}{2}$$



SILL SHOWN, HEAD
SIMILAR, ANCHOR
QUANTITY MAY VARY
(8 SHOWN)



HEAD & SILL ANCHOR PATTERN

- NOTES:**
1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

PREPARED BY: A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275; (941) 480-1600	 Commercial • Architectural Products	CGI WINDOWS AND DOORS, INC. 10100 NW 25TH STREET MIAMI, FL 33172 (305) 593-6590
PREPARED BY: A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275; (941) 480-1600	COPYRIGHT © 2020 CGI WINDOWS & DOORS, INC. LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	CERT. OF AUTH. #29296

ANTHONY LYNN MILLER
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No. 58705
9/22/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

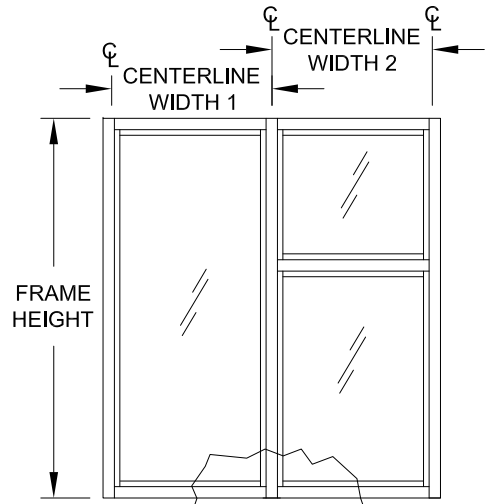
TABLE 3	J ROSOWSKI		Rev. Description	
STOREFRONT WINDOW SYSTEM DETAILS - LM				
SS-3500	Scale	NTS	Sheet	5 OF 16
	DWG No.	MD-3500-2-LM	Date	03/23/16
	By			
	Rev.			
	A			

TABLE 4:

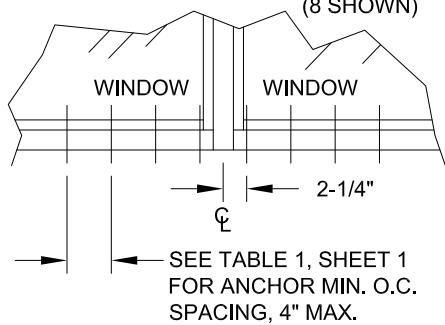
Mullion Anchor Cluster Design Pressure at Head/Sill, (+/- psf)														Shim Thickness: 1/2"		
Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity			Group "E" Anchor Quantity		
		4	6	8	4	6	8	4	6	8	4	6	8	4	6	
24"	48"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
102"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
108"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0		
120"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0		
132"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0		
144"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0		
24"	60"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
102"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
108"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0		
120"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0		
24"	72"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
36"		112.9	120.0	120.0	112.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42"		102.5	120.0	120.0	102.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
48"		95.3	120.0	120.0	95.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
54"		90.4	120.0	120.0	90.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"		87.1	120.0	120.0	87.1	120.0	120.0	120.0	119.2	120.0	120.0	120.0	120.0	120.0	120.0	
70"		84.8	120.0	120.0	84.8	120.0	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	
72"		84.7	120.0	120.0	84.7	120.0	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	
84"		84.7	120.0	120.0	84.7	120.0	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	
90"		84.7	120.0	120.0	84.7	120.0	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	
92"		84.7	120.0	120.0	84.7	120.0	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	
96"		84.7	120.0	120.0	84.7	120.0	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	
24"		78"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"	116.2		120.0	120.0	116.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
36"	101.7		120.0	120.0	101.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42"	91.7		120.0	120.0	91.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
48"	84.7		120.0	120.0	84.7	120.0	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	
54"	79.7		119.6	120.0	79.7	119.6	120.0	120.0	109.0	120.0	120.0	120.0	120.0	120.0	120.0	
60"	76.2		114.4	120.0	76.2	114.4	120.0	120.0	104.3	120.0	120.0	120.0	120.0	120.0	120.0	
70"	72.9		109.4	120.0	72.9	109.4	120.0	120.0	99.8	120.0	120.0	120.0	120.0	120.0	120.0	
72"	72.6		108.9	120.0	72.6	108.9	120.0	120.0	99.3	120.0	120.0	120.0	120.0	120.0	120.0	
84"	72.2		108.3	120.0	72.2	108.3	120.0	120.0	98.7	120.0	120.0	120.0	120.0	120.0	120.0	
90"	72.2		108.3	120.0	72.2	108.3	120.0	120.0	98.7	120.0	120.0	120.0	120.0	120.0	120.0	
92"	72.2		108.3	120.0	72.2	108.3	120.0	120.0	98.7	120.0	120.0	120.0	120.0	120.0	120.0	
24"	84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"			106.1	120.0	120.0	106.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		92.4	120.0	120.0	92.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
42"		83.0	120.0	120.0	83.0	120.0	120.0	120.0	113.5	120.0	120.0	120.0	120.0	120.0	120.0	
48"		76.2	114.4	120.0	76.2	114.4	120.0	120.0	104.3	120.0	120.0	120.0	120.0	120.0	120.0	
54"		71.3	107.0	120.0	71.3	107.0	120.0	120.0	97.6	120.0	120.0	120.0	120.0	120.0	120.0	
60"		67.8	101.7	120.0	67.8	101.7	120.0	120.0	92.7	120.0	120.0	118.1	120.0	120.0	120.0	120.0
70"		64.0	96.0	120.0	64.0	96.0	120.0	120.0	87.5	120.0	120.0	111.6	120.0	120.0	120.0	120.0
72"		63.5	95.3	120.0	63.5	95.3	120.0	120.0	86.9	120.0	120.0	110.7	120.0	120.0	120.0	120.0
84"		62.2	93.4	120.0	62.2	93.4	120.0	120.0	85.1	120.0	120.0	108.5	120.0	120.0	120.0	120.0

Mullion Anchor Cluster Design Pressure at Head/Sill, (+/- psf)														Shim Thickness: 1/2"	
Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity			Group "E" Anchor Quantity	
		4	6	8	4	6	8	4	6	8	4	6	8	4	6
24"	90"	117.3	120.0	120.0	117.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		97.6	120.0	120.0	97.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		84.7	120.0	120.0	84.7	120.0	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0
42"		75.8	113.6	120.0	75.8	113.6	120.0	120.0	103.6	120.0	120.0	120.0	120.0	120.0	120.0
48"		69.3	104.0	120.0	69.3	104.0	120.0	120.0	94.8	120.0	120.0	120.0	120.0	120.0	120.0
54"		64.5	96.8	120.0	64.5	96.8	120.0	120.0	88.3	120.0	120.0	112.5	120.0	120.0	120.0
60"		61.0	91.5	120.0	61.0	91.5	120.0	120.0	83.4	120.0	120.0	106.3	120.0	120.0	120.0
70"		57.0	85.5	114.1	57.0	85.5	114.1	120.0	78.0	117.0	120.0	99.4	120.0	120.0	120.0
72"		56.5	84.7	112.9	56.5	84.7	112.9	77.2	115.9	120.0	98.4	120.0	120.0	120.0	120.0
24"	97-3/4"	106.7	120.0	120.0	106.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		88.4	120.0	120.0	88.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		76.5	114.7	120.0	76.5	114.7	120.0	120.0	104.6	120.0	120.0	120.0	120.0	120.0	120.0
42"		68.1	102.2	120.0	68.1	102.2	120.0	120.0	93.2	120.0	120.0	118.7	120.0	120.0	120.0
48"		62.0	93.0	120.0	62.0	93.0	120.0	120.0	84.8	120.0	120.0	108.1	120.0	120.0	120.0
54"		57.5	86.2	114.9	57.5	86.2	114.9	120.0	78.6	117.9	120.0	100.2	120.0	120.0	120.0
60"		54.0	81.0	108.0	54.0	81.0	108.0	120.0	73.9	110.8	120.0	94.1	120.0	120.0	120.0
70"		50.0	75.0	100.0	50.0	75.0	100.0	120.0	68.4	102.5	120.0	87.1	120.0	120.0	120.0
72"		49.4	74.1	98.8	49.4	74.1	98.8	67.5	101.3	120.0	86.1	120.0	120.0	120.0	120.0
24"	102"	101.7	120.0	120.0	101.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		84.1	120.0	120.0	84.1	120.0	120.0	120.0	115.1	120.0	120.0	120.0	120.0	120.0	120.0
36"		72.6	108.9	120.0	72.6	108.9	120.0	120.0	99.3	120.0	120.0	120.0	120.0	120.0	120.0
42"		64.5	96.8	120.0	64.5	96.8	120.0	120.0	88.3	120.0	120.0	112.5	120.0	120.0	120.0
48"		58.6	88.0	117.3	58.6	88.0	117.3	120.0	80.2	120.0	120.0	102.2	120.0	120.0	120.0
54"		54.2	81.3	108.4	54.2	81.3	108.4	120.0	74.1	111.2	120.0	94.5	120.0	120.0	120.0
60"		50.8	76.2	101.7	50.8	76.2	101.7	120.0	69.5	104.3	120.0	88.6	120.0	120.0	120.0
70"		46.8	70.2	93.6	46.8	70.2	93.6	120.0	64.0	96.0	120.0	81.6	120.0	120.0	120.0

$$\text{AVERAGE CENTERLINE WIDTH} = \frac{\text{CENTERLINE WIDTH 1} + \text{CENTERLINE WIDTH 2}}{2}$$



SILL SHOWN, HEAD
SIMILAR, ANCHOR
QUANTITY MAY VARY
(8 SHOWN)



HEAD & SILL ANCHOR PATTERN

NOTES:

1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

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LICENSE
No. 58705
9/22/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

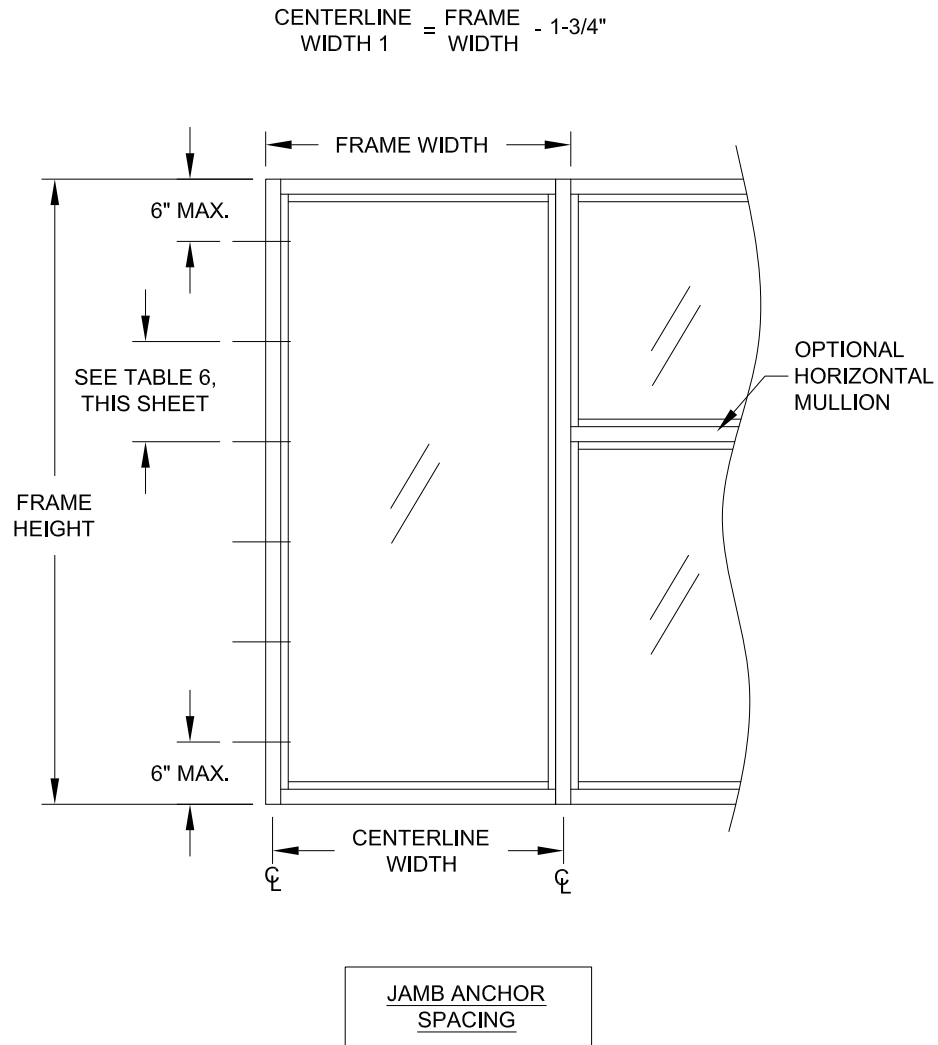
A. LYNN MILLER, P.E.
P.E.# 58705

[illegible]

TABLE 5:

Jamb Anchor Spacing				Shim Thickness = 1/4"			
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors	
Centerline Width	Frame Height						
24"	48"	18"	13"	18"	18"	18"	
30"		18"	13"	18"	18"	18"	
36"		18"	13"	18"	18"	18"	
42"		18"	13"	18"	18"	18"	
48"		18"	13"	18"	18"	18"	
54"		18"	13"	18"	18"	18"	
60"		18"	13"	18"	18"	18"	
70"		18"	13"	18"	18"	18"	
72"		18"	13"	18"	18"	18"	
84"		18"	13"	18"	18"	18"	
90"		18"	13"	18"	18"	18"	
92"		18"	13"	18"	18"	18"	
96"		18"	13"	18"	18"	18"	
102"		18"	13"	18"	18"	18"	
108"		18"	13"	18"	18"	18"	
120"		18"	13"	18"	18"	18"	
132"	18"	13"	18"	18"	18"		
144"	18"	13"	18"	18"	18"		
24"	60"	18"	13"	18"	18"	18"	
30"		18"	13"	18"	18"	18"	
36"		18"	13"	18"	18"	18"	
42"		18"	13"	18"	18"	18"	
48"		18"	13"	18"	18"	18"	
54"		18"	13"	18"	18"	18"	
60"		18"	13"	18"	18"	18"	
70"		18"	13"	18"	18"	18"	
72"		18"	13"	18"	18"	18"	
84"		18"	13"	18"	18"	18"	
90"		18"	13"	18"	18"	18"	
92"		18"	13"	18"	18"	18"	
96"		18"	13"	18"	18"	18"	
102"		18"	13"	18"	18"	18"	
108"		18"	13"	18"	18"	18"	
120"		18"	13"	18"	18"	18"	
24"	72"	18"	13"	18"	18"	18"	
30"		18"	13"	18"	18"	18"	
36"		18"	13"	18"	18"	18"	
42"		18"	13"	18"	18"	18"	
48"		18"	13"	18"	18"	18"	
54"		18"	13"	15"	18"	18"	
60"		18"	13"	15"	18"	18"	
70"		18"	13"	15"	18"	18"	
72"		18"	13"	15"	18"	18"	
84"		18"	13"	15"	18"	18"	
90"		18"	13"	15"	18"	18"	
92"		18"	13"	15"	18"	18"	
96"		18"	13"	15"	18"	18"	
24"		78"	18"	13"	18"	18"	18"
30"			18"	13"	18"	18"	18"
36"			18"	13"	18"	18"	18"
42"	18"		13"	18"	18"	18"	
48"	18"		13"	16-1/2"	18"	18"	
54"	18"		13"	16-1/2"	18"	18"	
60"	16-1/2"		13"	16-1/2"	18"	18"	
70"	16-1/2"		13"	13-3/16"	18"	18"	
72"	16-1/2"		13"	13-3/16"	18"	18"	
84"	16-1/2"		13"	13-3/16"	18"	18"	
90"	16-1/2"		13"	13-3/16"	18"	18"	
92"	16-1/2"		13"	13-3/16"	18"	18"	
24"	84"		18"	13"	18"	18"	18"
30"			18"	13"	18"	18"	18"
36"			18"	13"	18"	18"	18"
42"			18"	13"	18"	18"	18"
48"		18"	13"	18"	18"	18"	
54"		18"	13"	14-3/32"	18"	18"	
60"		18"	13"	14-3/32"	18"	18"	
70"		18"	13"	14-3/32"	18"	18"	
72"		18"	13"	14-3/32"	18"	18"	
84"		18"	13"	14-3/32"	18"	18"	

Jamb Anchor Spacing				Shim Thickness = 1/4"			
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors	
Centerline Width	Frame Height						
24"	90"	18"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	18"	
36"		18"	18"	18"	18"	18"	
42"		18"	18"	18"	18"	18"	
48"		18"	18"	15-5/8"	18"	18"	
54"		18"	18"	15-5/8"	18"	18"	
60"		15-5/8"	18"	15-5/8"	18"	18"	
70"		15-5/8"	18"	13"	18"	18"	
72"	15-5/8"	18"	13"	18"	18"		
24"	97-3/4"	18"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	18"	
36"		18"	18"	18"	18"	18"	
42"		18"	18"	17-1/8"	18"	18"	
48"		18"	18"	17-1/8"	18"	18"	
54"		17-1/8"	18"	14-5/16"	18"	18"	
60"		17-1/8"	18"	14-5/16"	18"	18"	
70"		14-5/16"	18"	12-1/4"	18"	18"	
72"	14-5/16"	18"	12-1/4"	18"	18"		
24"	102"	18"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	18"	
36"		18"	18"	18"	18"	18"	
42"		18"	18"	18"	18"	18"	
48"		18"	18"	15"	18"	18"	
54"		18"	18"	15"	18"	18"	
60"		15"	18"	12-7/8"	18"	18"	
70"		15"	18"	12-7/8"	18"	18"	
24"	108"	18"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	18"	
36"		18"	18"	18"	18"	18"	
42"		18"	18"	16"	18"	18"	
48"		18"	18"	16"	18"	18"	
54"		16"	18"	13-11/16"	18"	18"	
60"		16"	18"	13-11/16"	18"	18"	
24"		18"	18"	18"	18"	18"	
30"	114"	18"	18"	18"	18"	18"	
36"		18"	18"	18"	18"	18"	
42"		18"	18"	17"	18"	18"	
48"		17"	18"	14-9/16"	18"	18"	
54"		17"	18"	14-9/16"	18"	18"	
60"		14-9/16"	18"	12-3/4"	18"	18"	
24"		120"	18"	18"	18"	18"	18"
30"			18"	18"	18"	18"	18"
36"	18"		18"	18"	18"	18"	
42"	18"		18"	18"	18"	18"	
48"	18"		18"	15-7/16"	18"	18"	
54"	15-7/16"		18"	13-1/2"	18"	18"	
60"	15-7/16"		18"	13-1/2"	18"	18"	
24"	126"		18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"	
36"		18"	18"	18"	18"	18"	
42"		18"	18"	16-5/16"	18"	18"	
48"		18"	18"	14-1/4"	18"	18"	
54"		16-5/16"	18"	14-1/4"	18"	18"	
24"		132"	18"	18"	18"	18"	18"
30"			18"	18"	18"	18"	18"
36"	18"		18"	18"	18"	18"	
42"	18"		18"	17-1/8"	18"	18"	
48"	17-1/8"		18"	15"	18"	18"	
54"	15"		18"	13-5/16"	18"	18"	
24"	138"		18"	18"	18"	18"	18"
30"			18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"	
42"		18"	18"	15-3/4"	18"	18"	
48"		18"	18"	14"	18"	18"	
24"		144"	18"	18"	18"	18"	18"
30"			18"	18"	18"	18"	18"
36"			18"	18"	18"	18"	18"
42"	18"		18"	16-1/2"	18"	18"	
48"	16-1/2"		18"	14-11/16"	18"	18"	



PREPARED BY: A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 33475; (941) 480-1600	 Commercial Architectural Products
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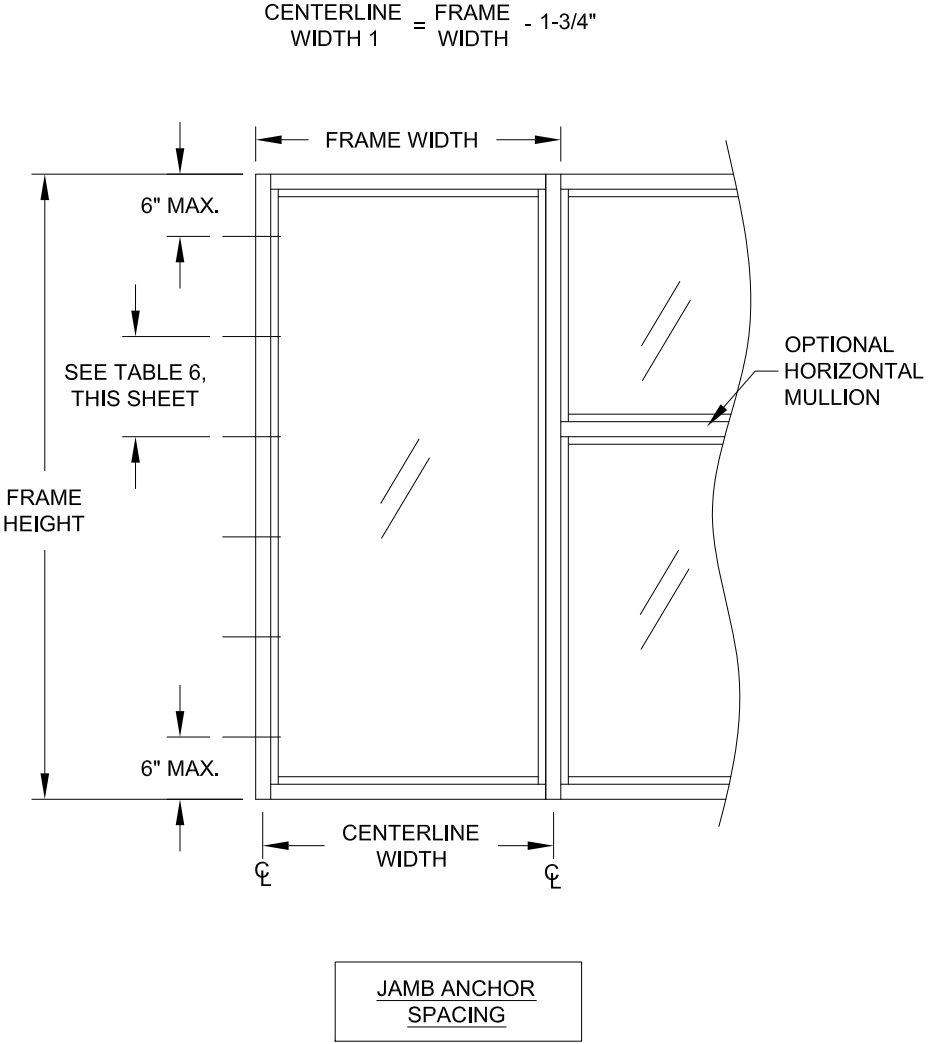
A. LYNN MILLER, P.E.
 P.E.# 58705

Drawn By	J ROSOWSKI	Rev. Description
TABLE 5		
STOREFRONT WINDOW SYSTEM DETAILS - LM		
Scale	Sheet	DWG No.
SS-3500	NTS	7 OF 16
MD-3500-2-LM		Date
		03/23/16
Rev. Description		
A		

TABLE 6:

Jamb Anchor Spacing		Shim Thickness = 1/2"				
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	48"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	18"	18"	18"
54"		18"	18"	18"	18"	18"
60"		18"	18"	18"	18"	18"
70"		18"	18"	18"	18"	18"
72"		18"	18"	18"	18"	18"
84"		18"	18"	18"	18"	18"
90"		18"	18"	18"	18"	18"
92"		18"	18"	18"	18"	18"
96"		18"	18"	18"	18"	18"
102"		18"	18"	18"	18"	18"
108"		18"	18"	18"	18"	18"
120"		18"	18"	18"	18"	18"
132"		18"	18"	18"	18"	18"
144"		18"	18"	18"	18"	18"
24"	60"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		16"	16"	18"	18"	18"
42"		16"	16"	18"	18"	18"
48"		16"	16"	18"	18"	18"
54"		16"	16"	18"	18"	18"
60"		16"	16"	18"	18"	18"
70"		16"	16"	18"	18"	18"
72"		16"	16"	18"	18"	18"
84"		16"	16"	18"	18"	18"
90"		16"	16"	18"	18"	18"
92"		16"	16"	18"	18"	18"
96"		16"	16"	18"	18"	18"
102"		16"	16"	18"	18"	18"
108"		16"	16"	18"	18"	18"
120"		16"	16"	18"	18"	18"
24"	72"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		15"	15"	18"	18"	18"
42"		15"	15"	18"	18"	18"
48"		12"	12"	18"	18"	18"
54"		12"	12"	15"	18"	18"
60"		12"	12"	15"	18"	18"
70"		12"	12"	15"	18"	18"
72"		12"	12"	15"	18"	18"
84"		12"	12"	15"	18"	18"
90"		12"	12"	15"	18"	18"
92"		12"	12"	15"	18"	18"
96"		12"	12"	15"	18"	18"
24"	78"	18"	18"	18"	18"	18"
30"		16-1/2"	16-1/2"	18"	18"	18"
36"		16-1/2"	16-1/2"	18"	18"	18"
42"		13-3/16"	13-3/16"	18"	18"	18"
48"		13-3/16"	13-3/16"	16-1/2"	18"	18"
54"		11"	11"	16-1/2"	18"	18"
60"		11"	11"	16-1/2"	18"	18"
70"		11"	11"	13-3/16"	18"	18"
72"		11"	11"	13-3/16"	18"	18"
84"		11"	11"	13-3/16"	18"	18"
90"		11"	11"	13-3/16"	18"	18"
92"		11"	11"	13-3/16"	18"	18"
24"	84"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		14-3/8"	14-3/8"	18"	18"	18"
42"		14-3/8"	14-3/8"	18"	18"	18"
48"		12"	12"	18"	18"	18"
54"		12"	12"	14-3/8"	18"	18"
60"		10-5/16"	10-5/16"	14-3/8"	18"	18"
70"		10-5/16"	10-5/16"	14-3/8"	18"	18"
72"		10-5/16"	10-5/16"	14-3/8"	18"	18"
84"		10-5/16"	10-5/16"	14-3/8"	18"	18"

Jamb Anchor Spacing		Shim Thickness = 1/2"				
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	90"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		15-5/8"	15-5/8"	18"	18"	18"
42"		13"	13"	18"	18"	18"
48"		13"	13"	15-5/8"	18"	18"
54"		11-1/8"	11-1/8"	15-5/8"	18"	18"
60"		11-1/8"	11-1/8"	15-5/8"	18"	18"
70"		9-3/4"	9-3/4"	13"	18"	18"
72"		9-3/4"	9-3/4"	13"	18"	18"
24"	97-3/4"	18"	18"	18"	18"	18"
30"		17-1/8"	17-1/8"	18"	18"	18"
36"		14-5/16"	14-5/16"	18"	18"	18"
42"		12-1/4"	12-1/4"	17-1/8"	18"	18"
48"		12-1/4"	12-1/4"	17-1/8"	18"	18"
54"		10-3/4"	10-3/4"	14-5/16"	18"	18"
60"		10-3/4"	10-3/4"	14-5/16"	17-1/8"	18"
70"		9-1/2"	9-1/2"	12-1/4"	17-1/8"	18"
72"		9-1/2"	9-1/2"	12-1/4"	17-1/8"	18"
24"	102"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		15"	15"	18"	18"	18"
42"		12-7/8"	12-7/8"	18"	18"	18"
48"		11-1/4"	11-1/4"	15"	18"	18"
54"		11-1/4"	11-1/4"	15"	18"	18"
60"		10"	10"	12-7/8"	18"	18"
70"		9"	9"	12-7/8"	18"	18"
24"	108"	18"	18"	18"	18"	18"
30"		16"	16"	18"	18"	18"
36"		13-11/16"	13-11/16"	18"	18"	18"
42"		13-11/16"	13-11/16"	16"	18"	18"
48"		12"	12"	16"	18"	18"
54"		10-11/16"	10-11/16"	13-11/16"	18"	18"
60"		9-5/8"	9-5/8"	13-11/16"	18"	18"
24"	114"	18"	18"	18"	18"	18"
30"		17"	17"	18"	18"	18"
36"		14-9/16"	14-9/16"	18"	18"	18"
42"		12-3/4"	12-3/4"	17"	18"	18"
48"		11-5/16"	11-5/16"	14-9/16"	18"	18"
54"		10-3/16"	10-3/16"	14-9/16"	18"	18"
60"		9-1/4"	9-1/4"	12-3/4"	17"	18"
24"	120"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		13-1/2"	13-1/2"	18"	18"	18"
42"		12"	12"	18"	18"	18"
48"		10-13/16"	10-13/16"	15-7/16"	18"	18"
54"		10-13/16"	10-13/16"	13-1/2"	18"	18"
60"		9-13/16"	9-13/16"	13-1/2"	18"	18"
24"	126"	18"	18"	18"	18"	18"
30"		16-5/16"	16-5/16"	18"	18"	18"
36"		14-1/4"	14-1/4"	18"	18"	18"
42"		12-11/16"	12-11/16"	16-5/16"	18"	18"
48"		11-3/8"	11-3/8"	14-1/4"	18"	18"
54"		10-3/8"	10-3/8"	14-1/4"	18"	18"
24"	132"	18"	18"	18"	18"	18"
30"		17-1/8"	17-1/8"	18"	18"	18"
36"		15"	15"	18"	18"	18"
42"		12"	12"	17-1/8"	18"	18"
48"		10-15/16"	10-15/16"	15"	18"	18"
54"		10"	10"	13-5/16"	17-1/8"	18"
24"	138"	18"	18"	18"	18"	18"
30"		15-3/4"	15-3/4"	18"	18"	18"
36"		14"	14"	18"	18"	18"
42"		12-5/8"	12-5/8"	15-3/4"	18"	18"
48"		11-7/16"	11-7/16"	14"	18"	18"
24"	144"	18"	18"	18"	18"	18"
30"		16-1/2"	16-1/2"	18"	18"	18"
36"		14-11/16"	14-11/16"	18"	18"	18"
42"		12"	12"	16-1/2"	18"	18"
48"		11"	11"	14-11/16"	18"	18"



PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275; (941) 480-1600

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A. LYNN MILLER, P.E.
P.E.# 58705

J ROSOWSKI

By

TABLE 6

STOREFRONT WINDOW SYSTEM DETAILS - LM

SS-3500

Scale

Sheet

No.

DWG

Date

03/23/16

Rev. Description

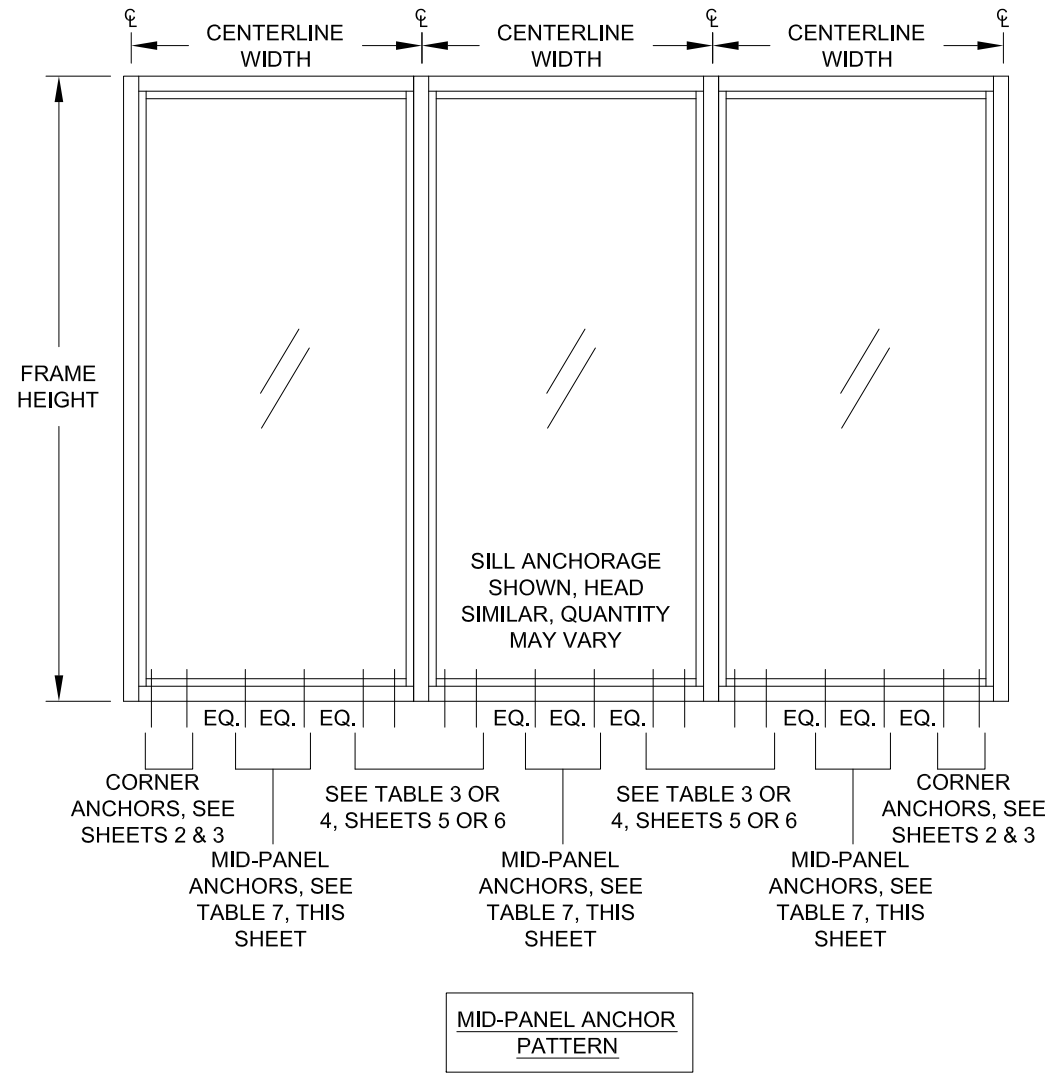
Rev.

A

TABLE 7:

Mid-Panel Anchor Quantity				Shim Thickness = 1/4"			
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors	
Centerline Width	Frame Height						
24"	48"	1	1	1	1	1	
30"		1	1	1	1	1	
36"		1	1	1	1	1	
42"		2	1	1	1	1	
48"		2	2	2	2	1	
54"		3	2	2	2	2	
60"		3	2	2	2	2	
70"		4	3	3	3	3	
72"		4	3	3	3	3	
84"		5	4	4	4	4	
90"		5	4	4	4	4	
92"		5	5	5	5	5	
96"		5	5	5	5	5	
102"		6	5	5	5	5	
108"		6	6	6	6	6	
120"		7	6	6	6	6	
132"	8	7	7	7	7		
144"	9	8	8	8	8		
24"	60"	1	1	1	1	1	
30"		1	1	1	1	1	
36"		1	1	1	1	1	
42"		2	1	1	1	1	
48"		2	2	2	2	1	
54"		3	2	2	2	2	
60"		3	2	2	2	2	
70"		4	3	3	3	3	
72"		4	3	3	3	3	
84"		5	4	4	4	4	
90"		6	4	4	4	4	
92"		6	5	5	5	5	
96"		6	5	5	5	5	
102"		7	5	5	5	5	
108"		7	6	6	6	6	
120"		8	6	6	6	6	
24"	72"	1	1	1	1	1	
30"		1	1	1	1	1	
36"		1	1	1	1	1	
42"		2	1	1	1	1	
48"		2	2	2	2	1	
54"		3	2	2	2	2	
60"		3	2	2	2	2	
70"		4	3	3	3	3	
72"		4	3	3	3	3	
84"		5	4	4	4	4	
90"		6	4	5	4	4	
92"		6	5	5	5	5	
96"		7	5	5	5	5	
24"		78"	1	1	1	1	1
30"			1	1	1	1	1
36"			1	1	1	1	1
42"	2		1	1	1	1	
48"	2		2	2	2	1	
54"	3		2	2	2	2	
60"	3		2	2	2	2	
70"	4		3	3	3	3	
72"	4		3	3	3	3	
84"	5		4	4	4	4	
90"	6		5	5	4	4	
92"	6		5	5	5	5	
24"	84"		1	1	1	1	1
30"			1	1	1	1	1
36"			1	1	1	1	1
42"			2	1	1	1	1
48"		2	2	2	2	1	
54"		3	2	2	2	2	
60"		3	2	2	2	2	
70"		4	3	3	3	3	
72"		4	3	3	3	3	
84"		5	4	4	4	4	

Mid-Panel Anchor Quantity				Shim Thickness = 1/4"		
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	90"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	97-3/4"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	102"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	108"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	114"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	120"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	126"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	132"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	138"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	144"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3



NOTES:

1. MID-PANEL ANCHORS TO BE EQUALLY SPACED, +/- 1/2".

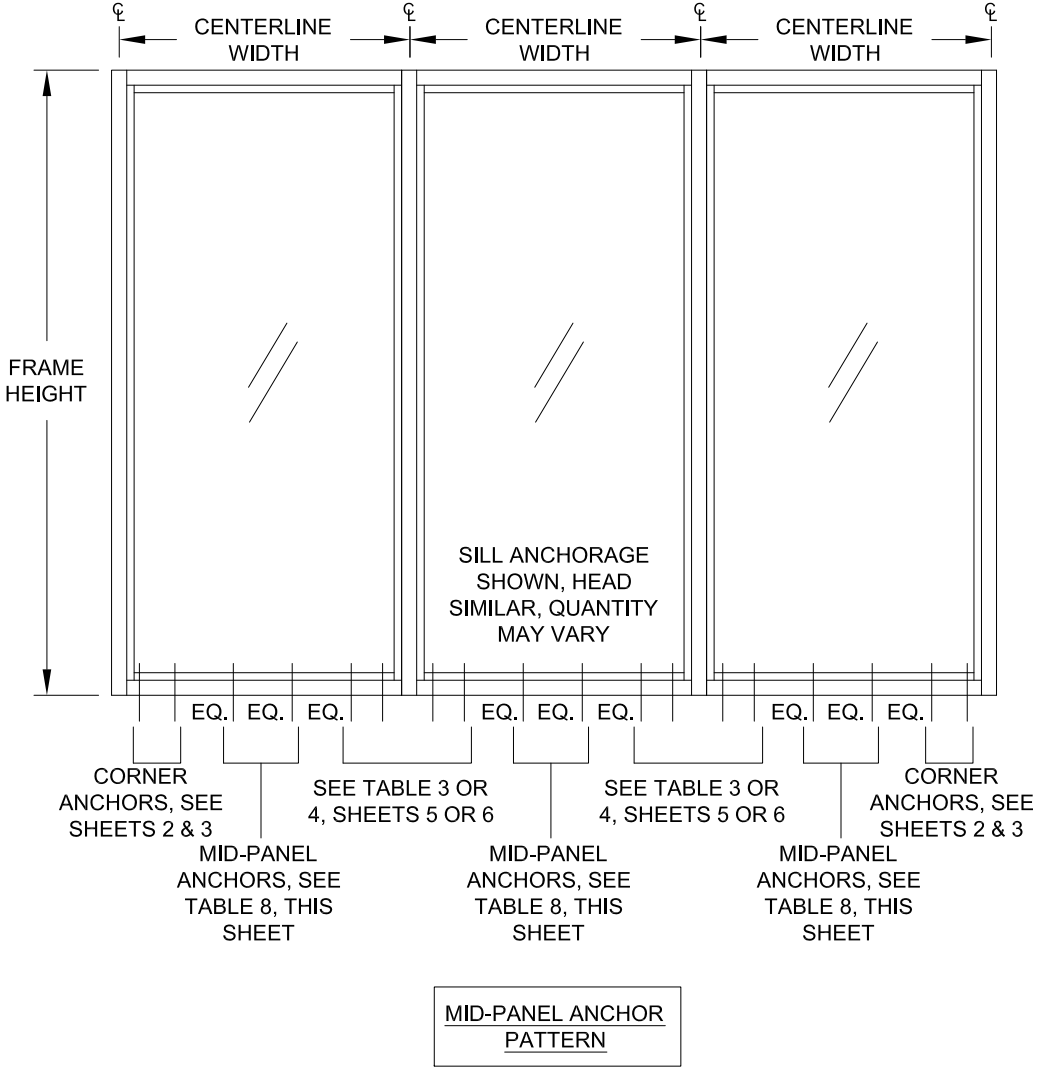
 CGI Commercial Architectural Products		CGI WINDOWS AND DOORS, INC. 10100 NW 25TH STREET MIAMI, FL 33172 (305) 593-6590	
PREPARED BY: A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275; (941) 480-1600		COPYRIGHT © 2020 CGI WINDOWS & DOORS, INC. LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
		CERT. OF AUTH. #29296	
TABLE 7 Title		Desc.	
STOREFRONT WINDOW SYSTEM DETAILS		SS-3500	
Series		Scale	
NT		9 OF 16	
Sheet		No.	
MD-3500		MD-3500	

A	Rev.						J ROSOWSKI		Rev. Description		
							Drawn By				
STOREFRONT WINDOW SYSTEM DETAILS - LM											
TABLE 7											
Series	SS-3500	Scale	NTS	Sheet	9 OF 16	DWG No.	MD-3500-2-LM	Date	03/23/16	Rev. Description	
Desc.	STOREFRONT WINDOW SYSTEM DETAILS - LM										
Title	TABLE 7										

TABLE 8:

Mid-Panel Anchor Quantity						Shim Thickness = 1/2"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	48"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		5	5	4	3	3
72"		6	6	4	3	3
84"		7	7	5	4	4
90"		7	7	6	4	4
92"		8	8	6	5	5
96"		8	8	6	5	5
102"		9	9	6	5	5
108"		9	9	7	6	6
120"		11	11	8	6	6
132"		12	12	9	7	7
144"		13	13	10	8	8
24"	60"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
84"		8	8	6	5	4
90"		8	8	6	5	4
92"		9	9	6	5	5
96"		9	9	7	5	5
102"		10	10	7	6	5
108"		11	11	8	6	6
120"		12	12	9	7	6
24"	72"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
84"		8	8	6	5	4
90"		9	9	7	5	4
92"		9	9	7	6	5
96"		10	10	7	6	5
24"	78"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
84"		8	8	6	5	4
90"		9	9	7	5	4
92"		10	10	7	6	5
24"	84"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
84"		8	8	6	5	4

Mid-Panel Anchor Quantity						Shim Thickness = 1/2"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	90"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
24"	97-3/4"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
24"	102"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
24"	108"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
24"	114"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
24"	120"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
24"	126"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
24"	132"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
24"	138"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
24"	144"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1



NOTES:

1. MID-PANEL ANCHORS TO BE EQUALLY SPACED, +/- 1/2".



CGI WINDOWS AND DOORS, INC.
10100 NW 25TH STREET
MIAMI, FL 33172
(305) 593-6590

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1070 TECHNOLOGY DRIVE
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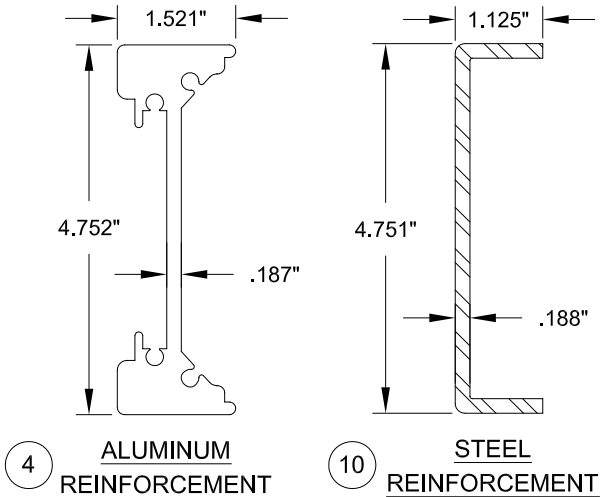
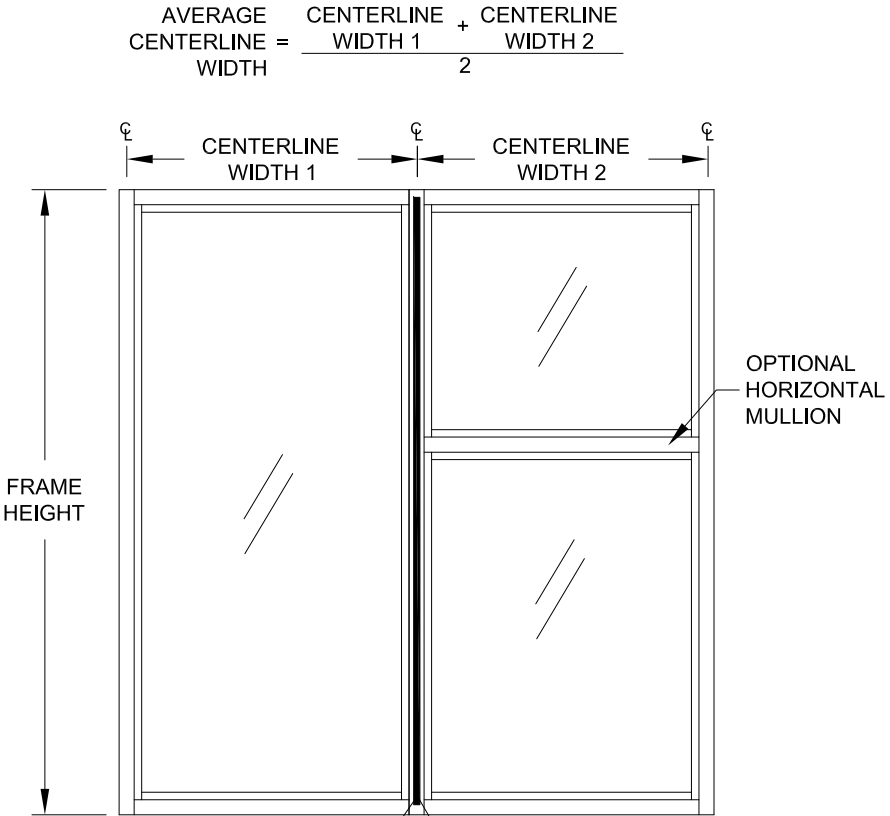
A. LYNN MILLER, P.E.
P.E.# 58705

Rev.	A	
Description		
J ROSOWSKI		
STOREFRONT WINDOW SYSTEM DETAILS - LM		
By		
Date		
03/23/16		
DWG		
MD-3500-2-LM		
No.		
10 OF 16		
Sheet		
NTS		
Scale		
SS-3500		
Title		
TABLE 8		

TABLE 9:

Maximum Vertical Mullion Design Pressure, (psf)				
Average Centerline Width	Frame Height	No Reinforcement	Alum. Reinforcement (part #4)	Steel Reinforcement (part #10)
24"	48"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"		+90/-90	+90/-100	+90/-120
70"		+90/-90	+90/-100	+90/-120
72"		+90/-90	+90/-100	+90/-120
84"		+90/-90	+90/-100	+90/-120
90"		+90/-90	+90/-100	+90/-120
92"		+90/-90	+90/-100	+90/-120
96"		+90/-90	+90/-100	+90/-120
102"			+90/-100	+90/-120
108"			+90/-100	+90/-120
120"			+90/-100	+90/-120
132"	60"			+90/-100
144"				+90/-100
24"		+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"		+90/-90	+90/-100	+90/-120
70"		+90/-90	+90/-100	+90/-120
72"		+90/-90	+90/-100	+90/-120
84"			+90/-100	+90/-120
90"			+90/-100	+90/-120
92"			+90/-100	+90/-120
96"			+90/-100	+90/-120
102"				+90/-100
108"				+90/-100
120"	72"			+90/-100
24"		+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"		+90/-90	+90/-100	+90/-120
70"			+90/-100	+90/-120
72"			+90/-100	+90/-120
84"				+90/-100
90"				+90/-100
92"				+90/-100
96"				+90/-100
24"	78"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"		+90/-90	+90/-100	+90/-120
70"			+90/-100	+90/-120
72"			+90/-100	+90/-120
84"				+90/-100
90"				+90/-100
92"				+90/-100
24"	84"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"			+90/-100	+90/-120
70"			+90/-100	+90/-100
72"				+90/-100
84"				+90/-100

Maximum Vertical Mullion Design Pressure, (psf)				
Average Centerline Width	Frame Height	No Reinforcement	Alum. Reinforcement (part #4)	Steel Reinforcement (part #10)
24"	90"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+89.4/-89.4	+90/-100	+90/-120
54"			+90/-100	+90/-120
60"			+90/-100	+90/-120
70"				+90/-100
72"				+90/-100
24"	97-3/4"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+87.9/-87.9	+90/-100	+90/-120
48"		+80/-80	+90/-100	+90/-120
54"			+90/-100	+90/-120
60"				+90/-100
70"				+90/-100
72"				+90/-100
24"	102"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+88.3/-88.3	+90/-100	+90/-120
42"		+77.1/-77.1	+90/-100	+90/-120
48"			+90/-100	+90/-120
54"			+90/-100	+90/-120
60"				+90/-100
70"				+90/-100
24"	108"	+90/-90	+90/-100	+90/-120
30"		+87.5/-87.5	+90/-100	+90/-120
36"		+74/-74	+90/-100	+90/-120
42"		+64.5/-64.5	+90/-100	+90/-120
48"			+90/-100	+90/-120
54"				+90/-100
60"				+90/-100
24"	114"	+90/-90	+90/-100	+90/-120
30"		+74.2/-74.2	+90/-100	+90/-120
36"		+62.6/-62.6	+90/-100	+90/-120
42"			+90/-100	+90/-120
48"			+90/-100	+90/-120
54"				+90/-100
60"				+90/-100
24"	120"	+78.5/-78.5	+90/-100	+90/-120
30"		+63.4/-63.4	+90/-100	+90/-120
36"		+53.5/-53.5	+90/-100	+90/-120
42"			+90/-100	+90/-120
48"			+90/-100	+90/-120
54"				+90/-100
60"				+90/-100
24"	126"	+67.7/-67.7	+90/-100	+90/-120
30"		+54.6/-54.6	+90/-100	+90/-120
36"		+46/-46	+90/-100	+90/-120
42"			+87.1/-96.8	+90/-116.5
48"				+90/-100
54"				+84/-93.4
24"	132"	+58.8/-58.8	+90/-100	+90/-120
30"		+47.4/-47.4	+90/-100	+90/-120
36"			+87.1/-96.7	+90/-116.4
42"			+75.4/-83.8	+90/-100.9
48"				+80.5/-89.4
54"				+72.6/-80.6
24"	138"	+51.4/-51.4	+90/-100	+90/-120
30"		+41.4/-41.4	+90/-100	+90/-120
36"			+76/-84.4	+90/-101.6
42"				+79.2/-88
48"				+70.1/-77.9
24"	144"	+45.2/-45.2	+90/-100	+90/-120
30"		+36.4/-36.4	+79.5/-88.3	+90/-106.3
36"			+66.7/-74.1	+80.3/-89.3
42"				+69.5/-77.2
48"				+61.5/-68.3



- NOTES:
- IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

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J ROSOWSKI

STOREFRONT WINDOW SYSTEM DETAILS - LM

SS-3500

NTS

11 OF 16

DWG

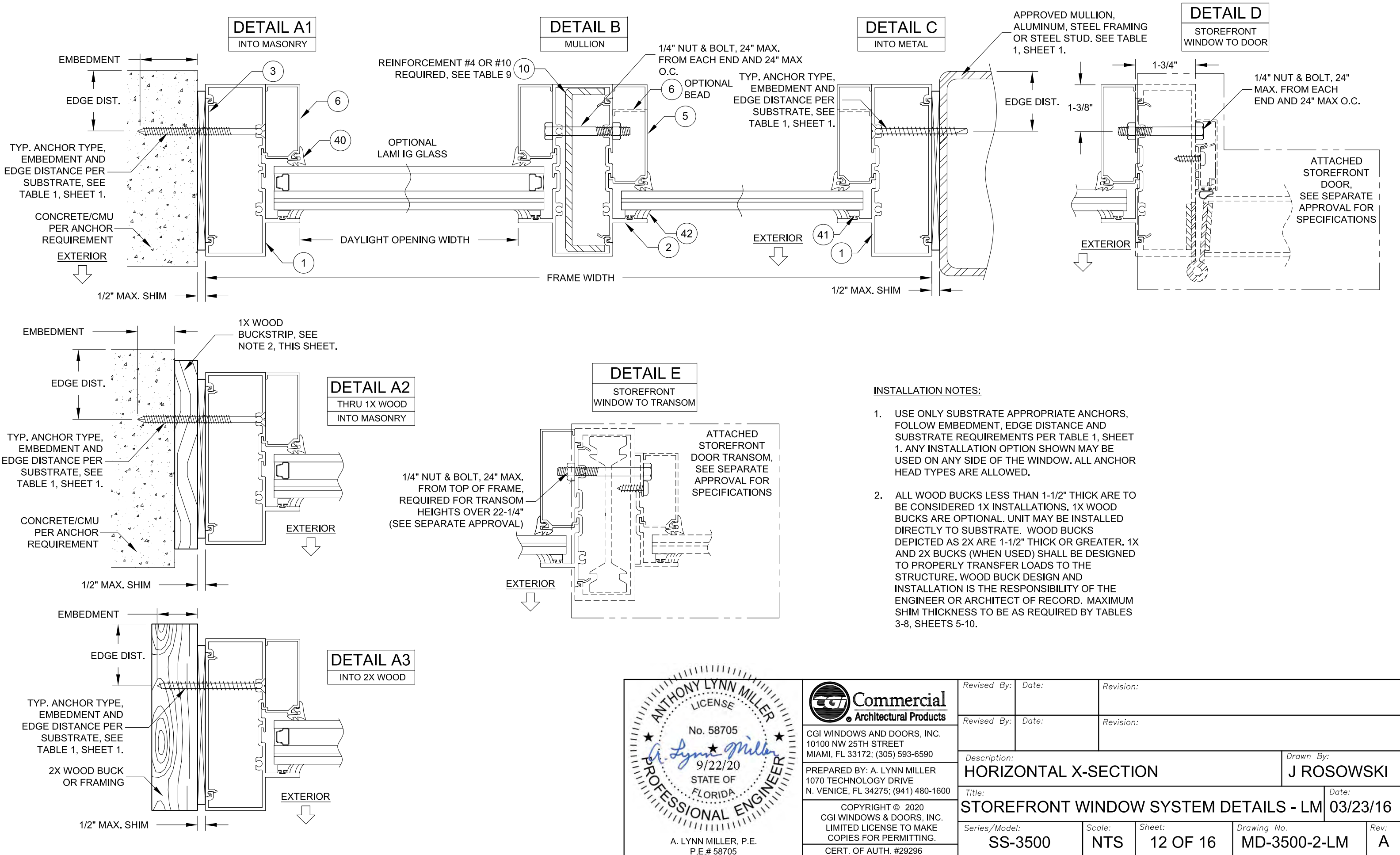
MD-3500-2-LM

03/23/16

Rev. Description

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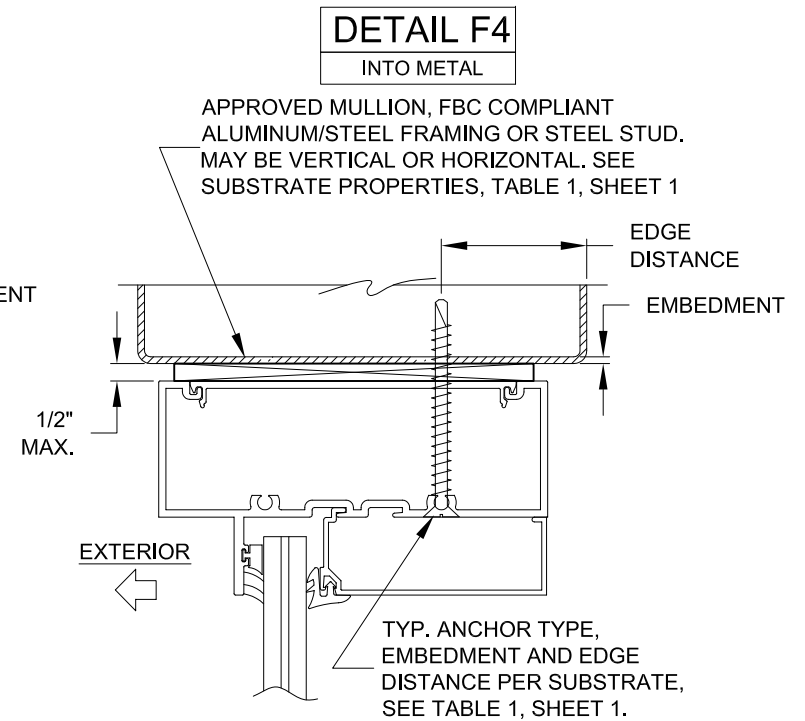
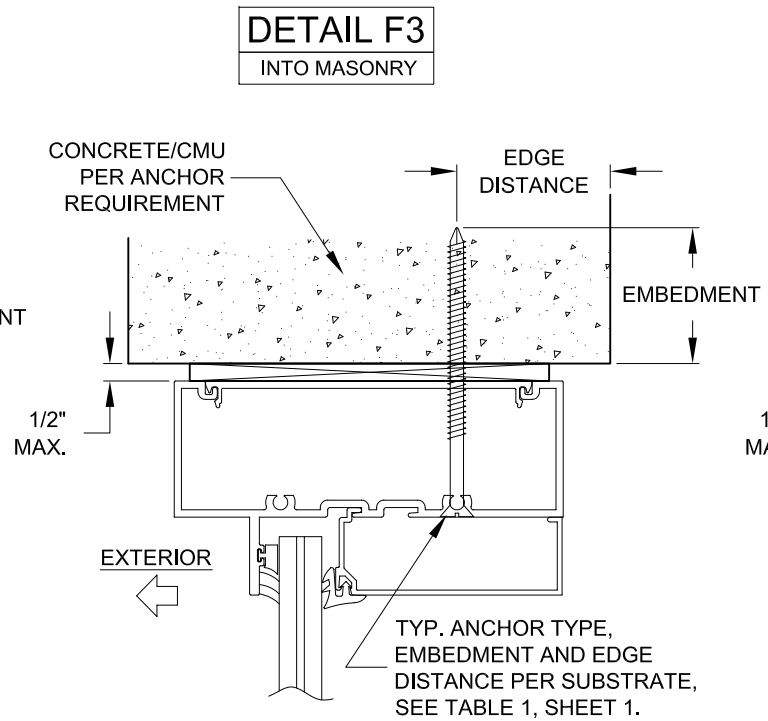
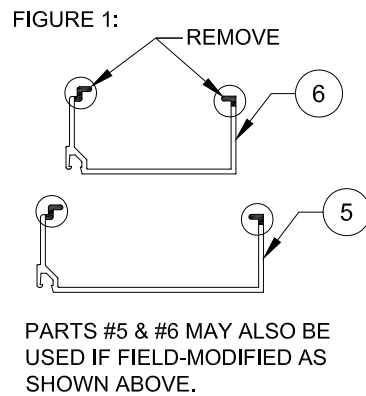
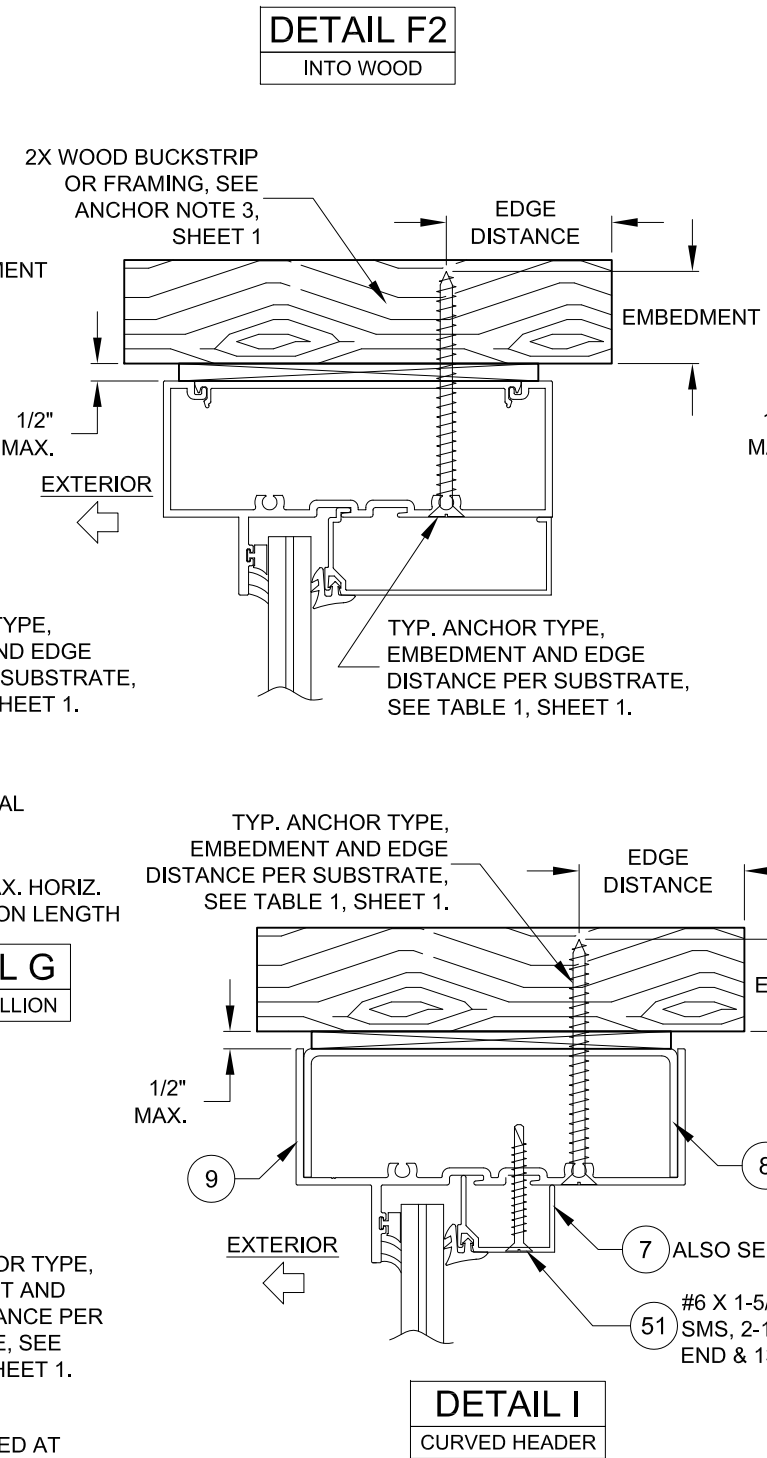
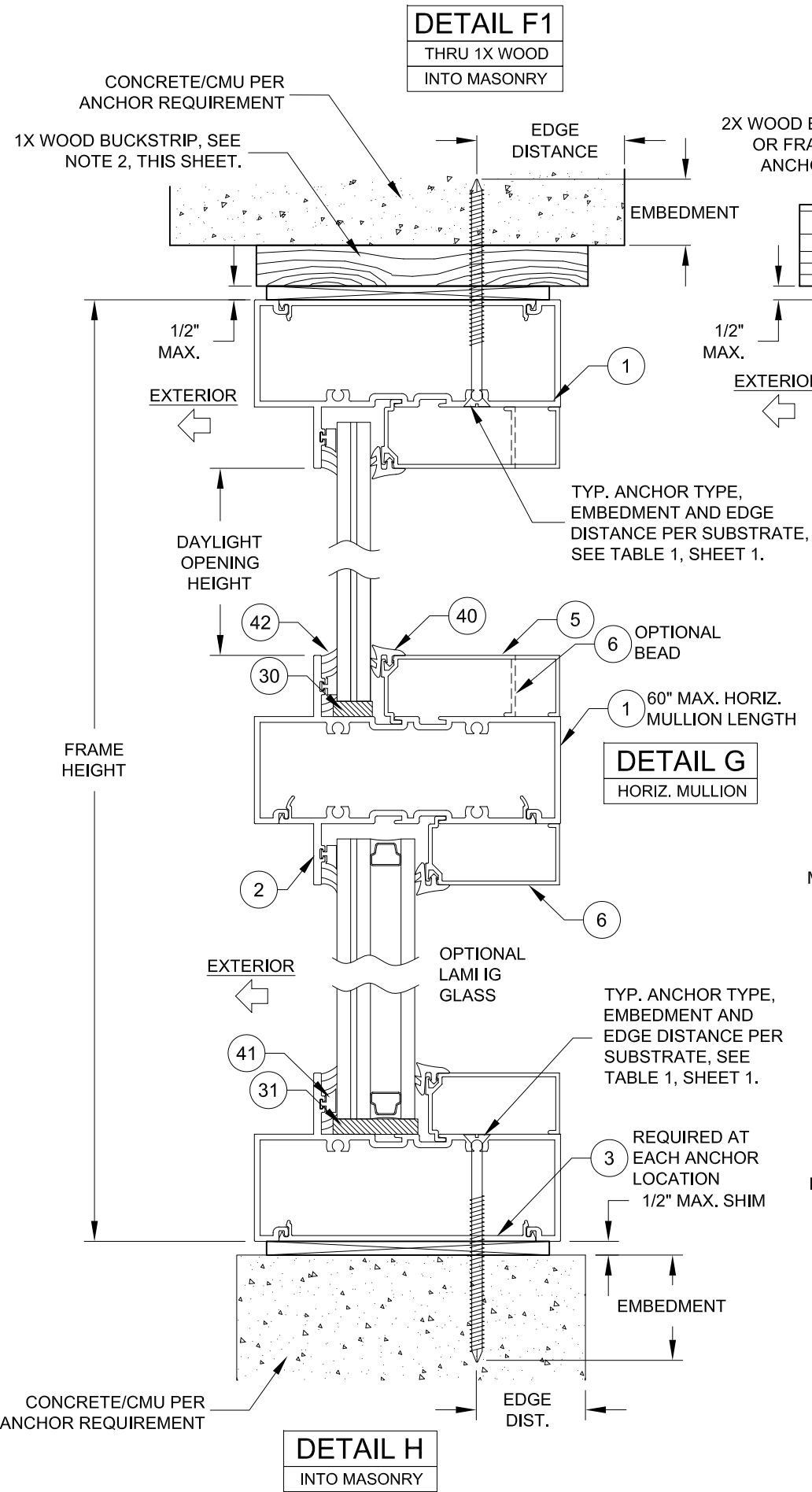
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INSTALLATION NOTES:

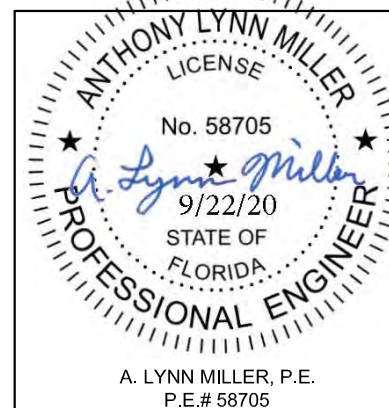
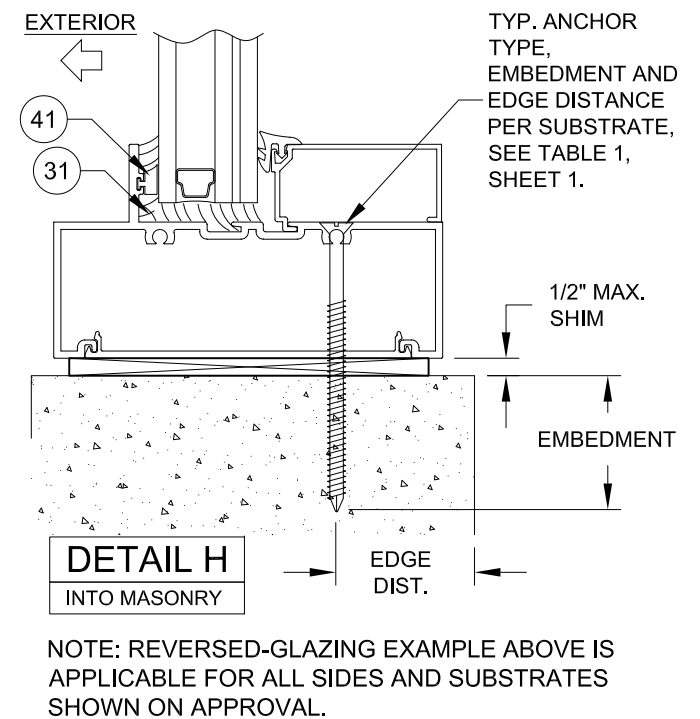
- 1. USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW. ALL ANCHOR HEAD TYPES ARE ALLOWED.
- 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD. MAXIMUM SHIM THICKNESS TO BE AS REQUIRED BY TABLES 3-8, SHEETS 5-10.

ANTHONY LYNN MILLER LICENSE No. 58705 9/22/20 STATE OF FLORIDA PROFESSIONAL ENGINEER A. LYNN MILLER, P.E. P.E.# 58705	Commercial Architectural Products CGI WINDOWS AND DOORS, INC. 10100 NW 25TH STREET MIAMI, FL 33172; (305) 593-6590 PREPARED BY: A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275; (941) 480-1600 COPYRIGHT © 2020 CGI WINDOWS & DOORS, INC. LIMITED LICENSE TO MAKE COPIES FOR PERMITTING. CERT. OF AUTH. #29296	Revised By:	Date:	Revision:	
		Revised By:	Date:	Revision:	
		Description: HORIZONTAL X-SECTION			Drawn By: J ROSOWSKI
		Title: STOREFRONT WINDOW SYSTEM DETAILS - LM			Date: 03/23/16
		Series/Model: SS-3500	Scale: NTS	Sheet: 12 OF 16	Drawing No. MD-3500-2-LM

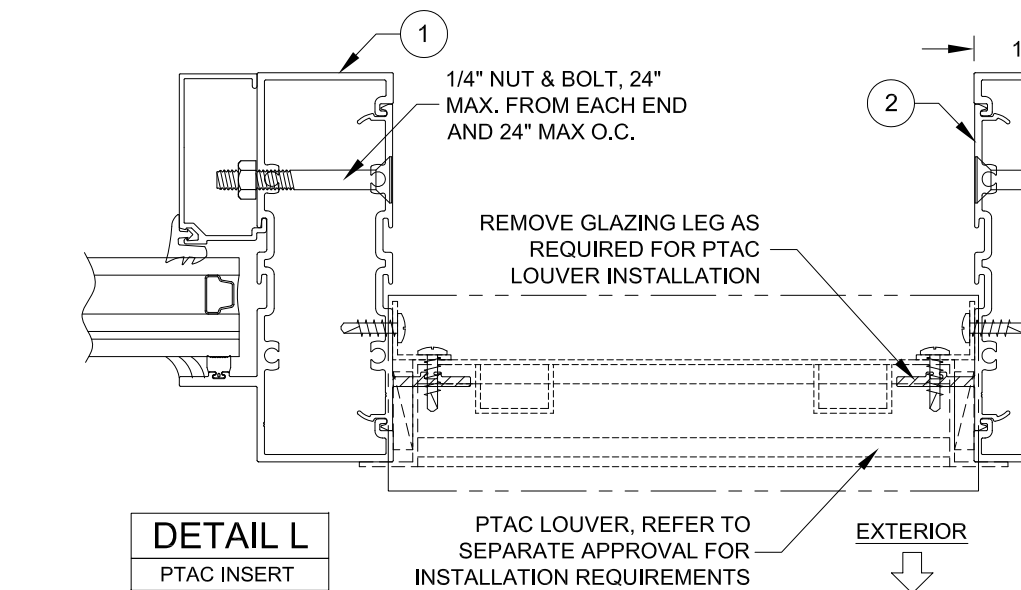
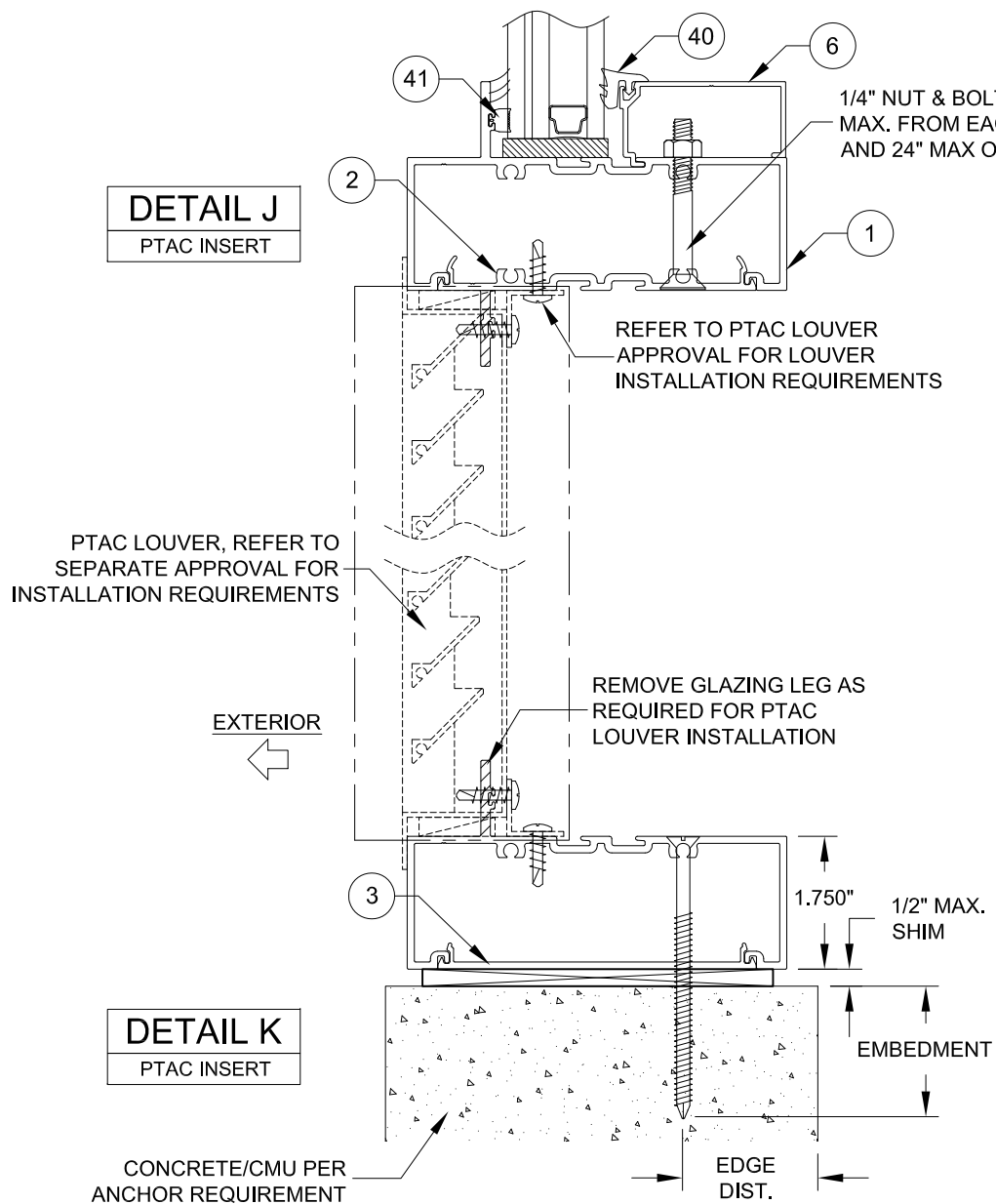


INSTALLATION NOTES:

1. USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW. ALL ANCHOR HEAD TYPES ARE ALLOWED.
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Revised By: JR	Date: 09/15/20	Revision: ADDED REVERSED GLAZING DETAIL.
Revised By:	Date:	Revision:
Description: VERTICAL X-SECTION		Drawn By: J ROSOWSKI
Title: STOREFRONT WINDOW SYSTEM DETAILS - LM		Date: 03/23/16
Series/Model: SS-3500	Scale: NTS	Sheet: 13 OF 16
Drawing No. MD-3500-2-LM		Rev: A

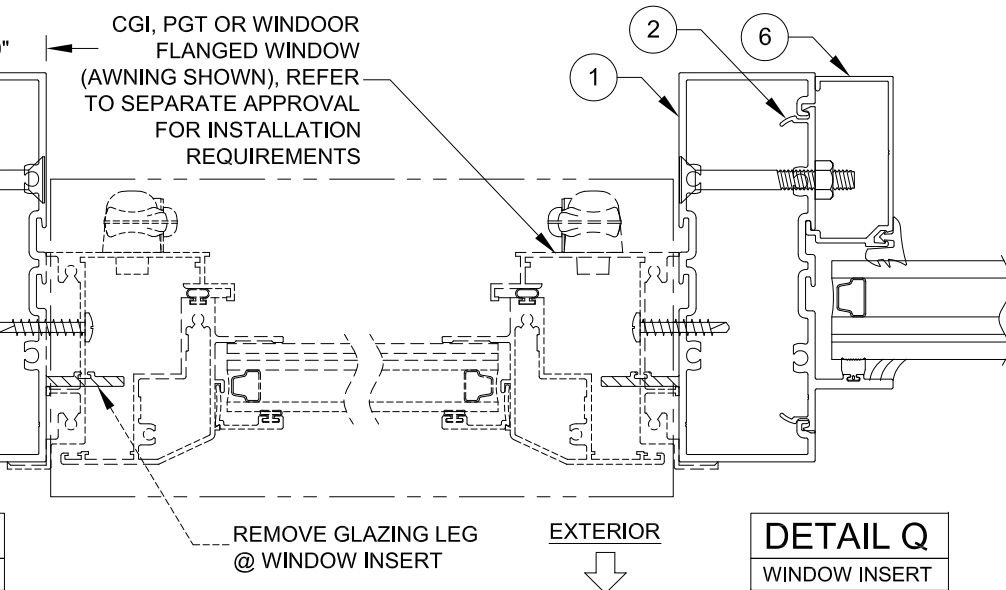
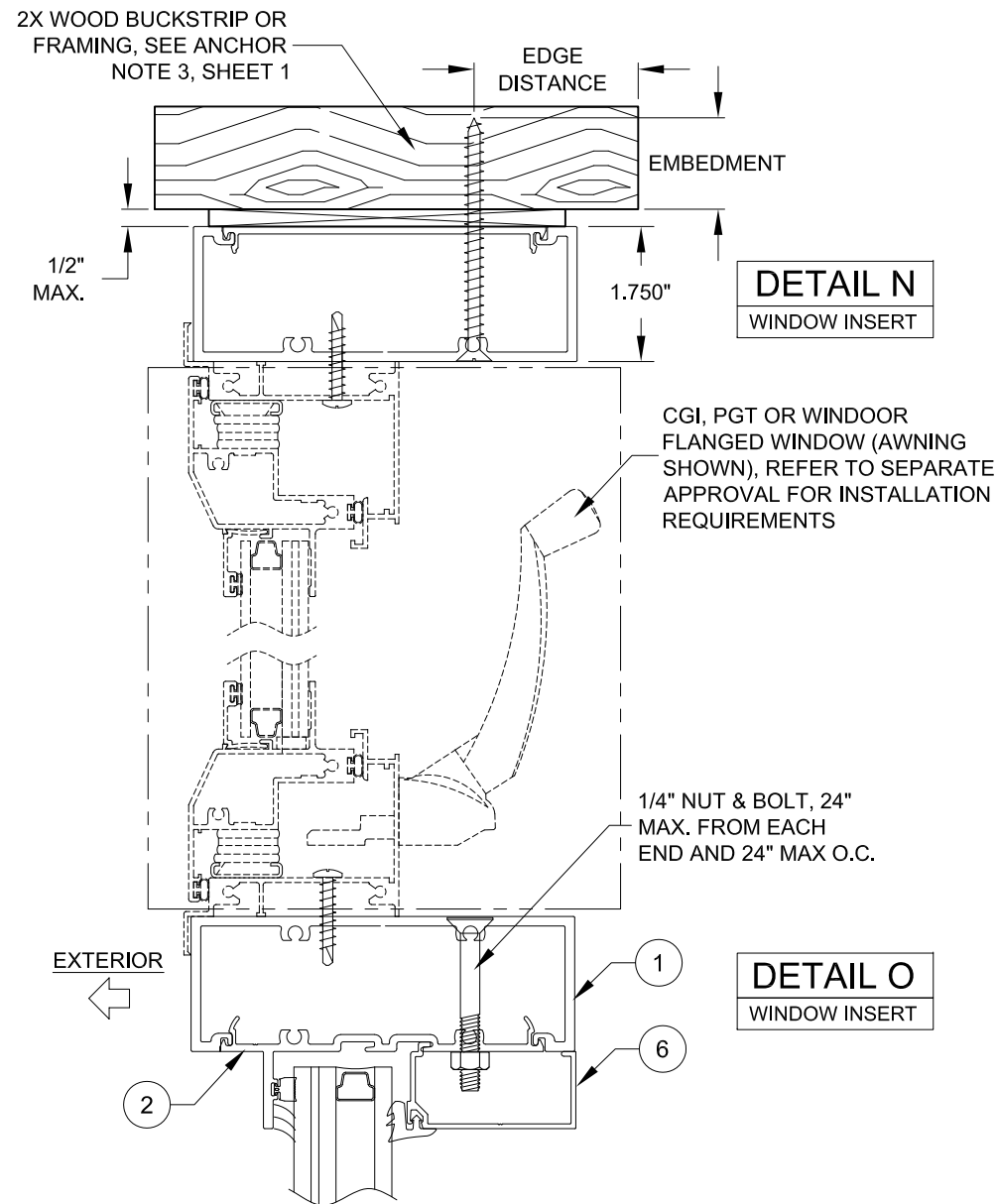
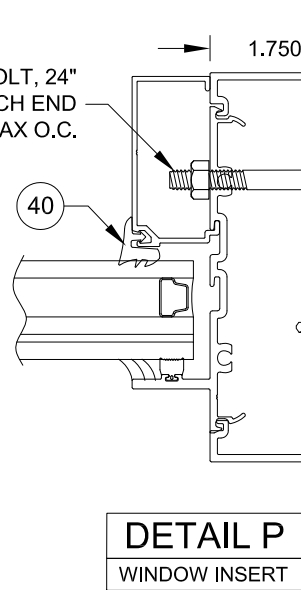
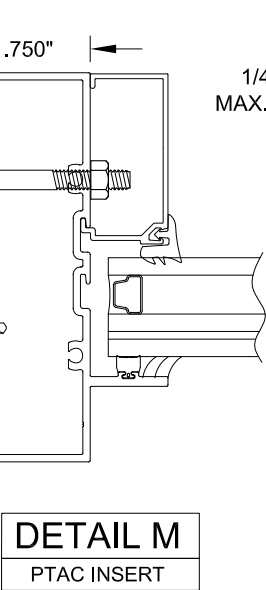


PTAC LOUVER & WINDOW INSERT NOTES:

1. REFER TO SEPARATE WINDOW APPROVAL FOR ALL WINDOW INSERT REQUIREMENTS AND INSTALLATION.
2. AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED PGT WINDOW WITH A FLANGED FRAME.
3. REFER TO PTAC LOUVER APPROVAL FOR ALL PTAC LOUVER REQUIREMENTS AND INSTALLATION.
4. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

INSTALLATION NOTES:

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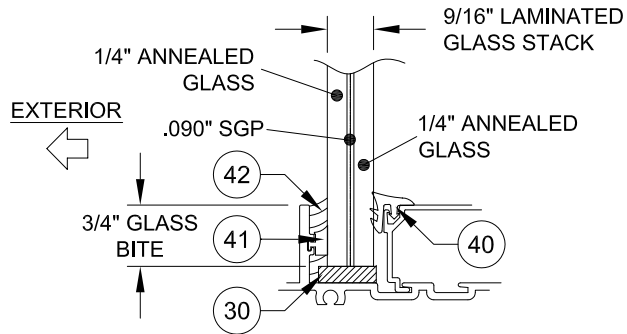
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J ROSOWSKI

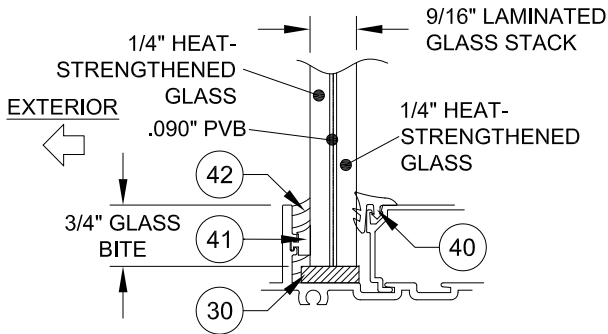
STOREFRONT WINDOW SYSTEM DETAILS - LM

SS-3500 NTS 14 OF 16 DWG No. 03/23/16

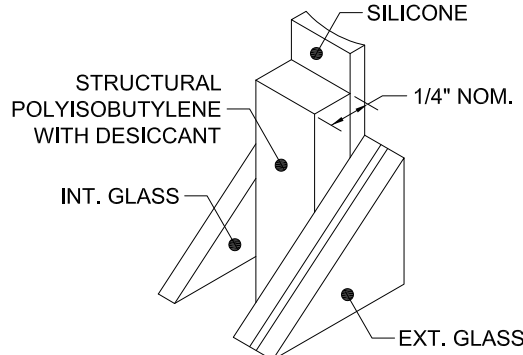
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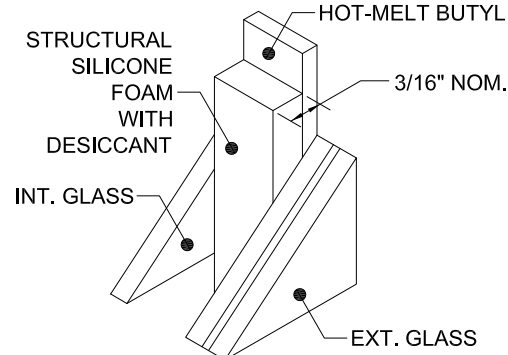
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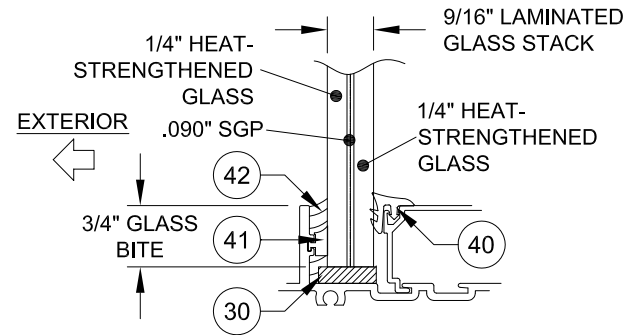
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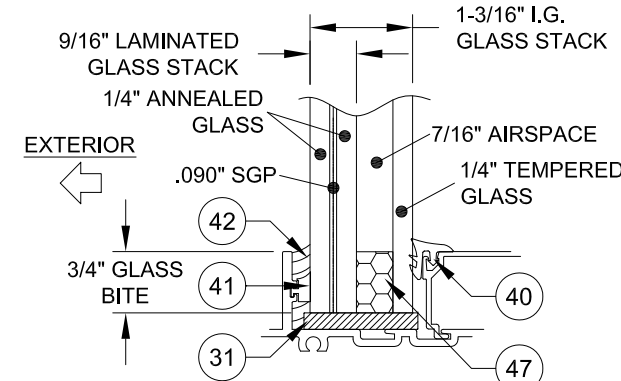
36 KODISPACE® 4SG TPS



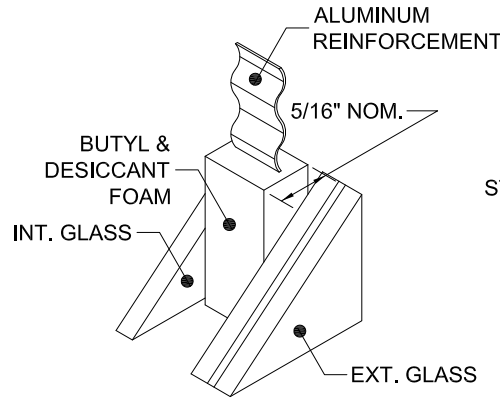
37 SUPER SPACER® NXT™



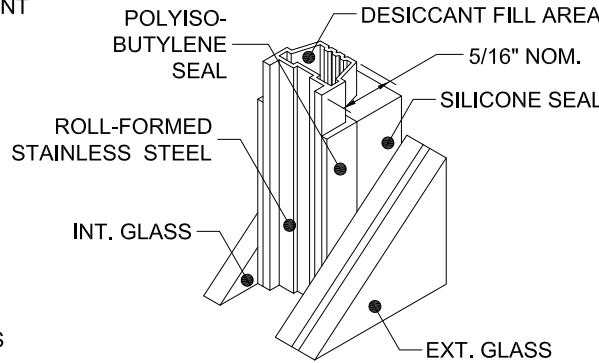
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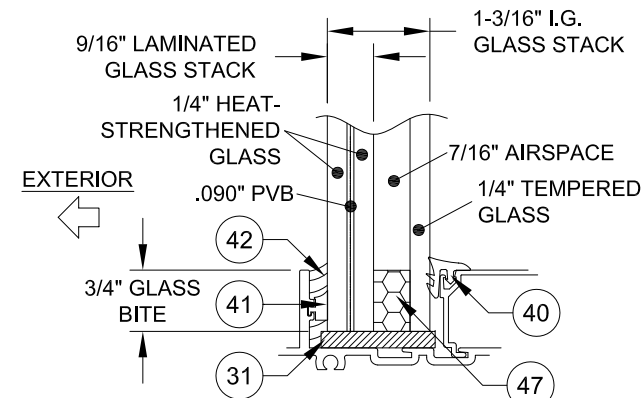
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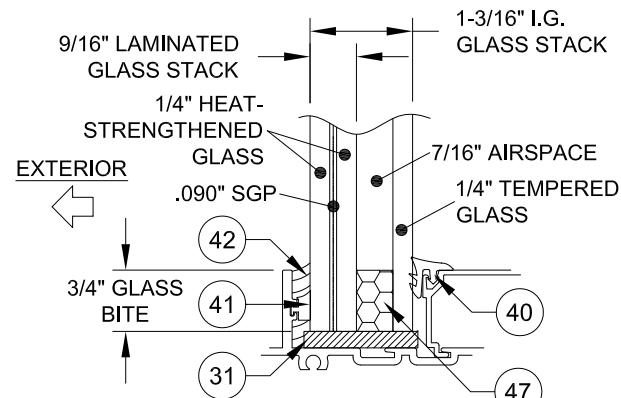
38 DURASEAL® SPACER



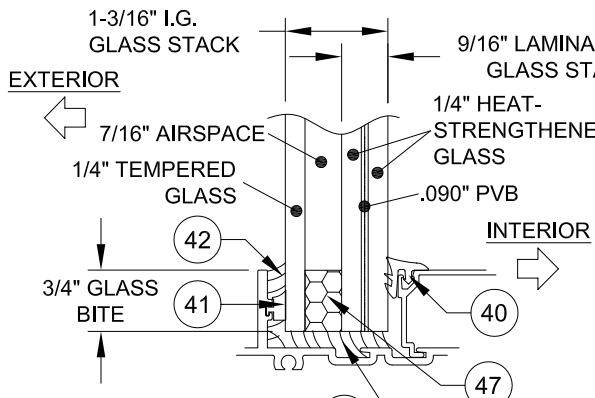
39 XL EDGE™ SPACER



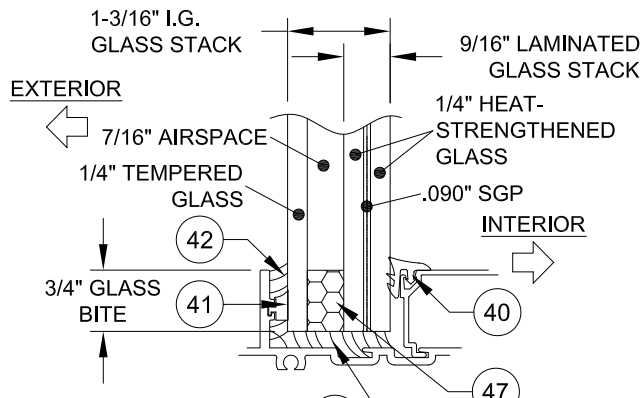
GLASS TYPE E



GLASS TYPE F



GLASS TYPE E1



GLASS TYPE F1

NOTE: FOR REVERSED-GLAZING (E1 & F1), ENTIRE PERIMETER OF GLASS EDGE TO HAVE BACKBEDDING. FOR CLARITY, SETTING BLOCKS ARE NOT SHOWN.

NOTES:
1. GLAZING FOR ALL GLASS TYPES MEETS ASTM E1300 FOR ALL APPROVED SIZES.

"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.



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Rev.		A	
Description		ADDED REVERSE GLZ.	
By		J ROSOWSKI	
Title		GLAZING DETAILS	
Desc.		STOREFRONT WINDOW SYSTEM DETAILS - LM	
Series		SS-3500	
Scale		NTS	
Sheet		15 OF 16	
DWG No.		MD-3500-2-LM	
Date		03/23/16	

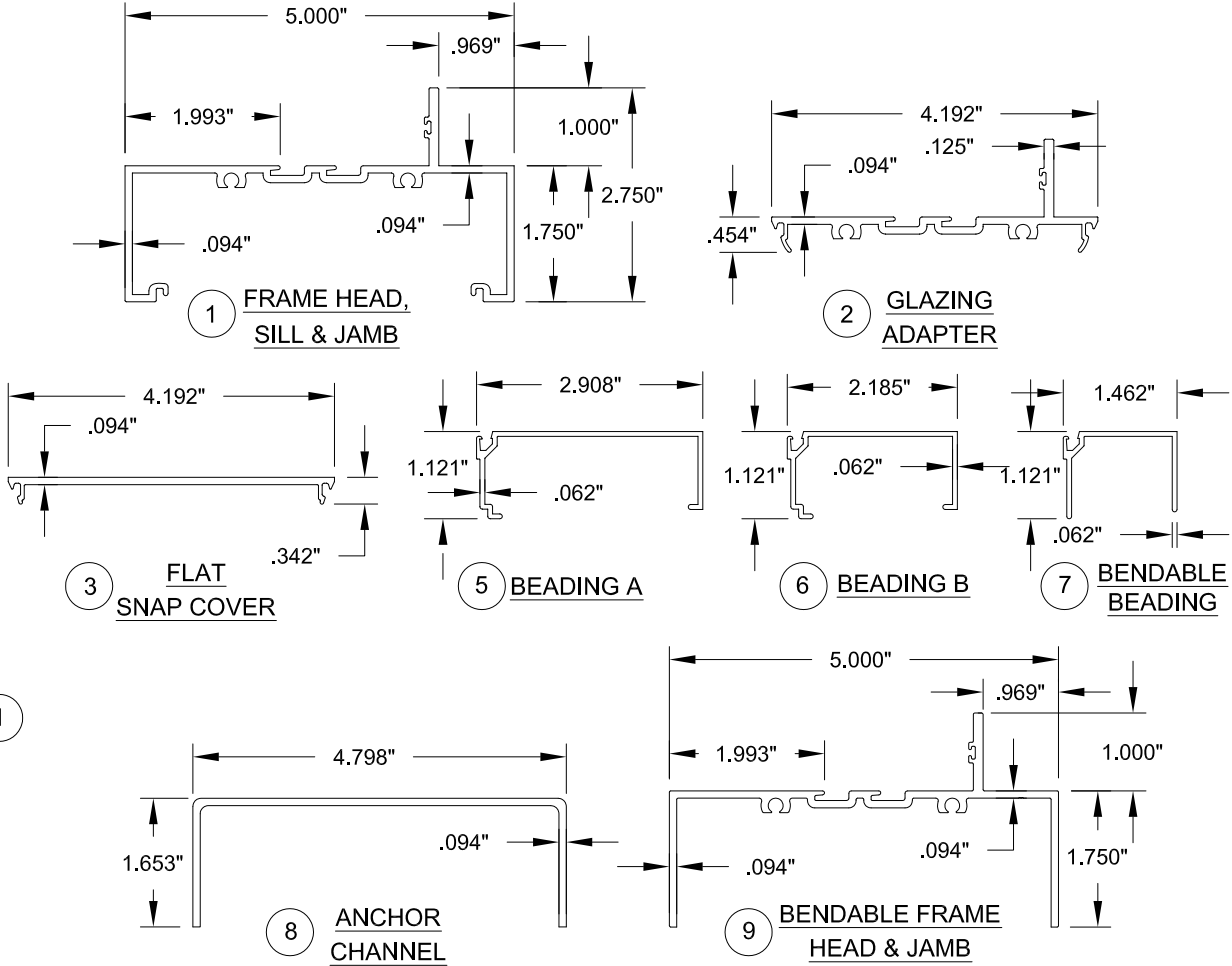
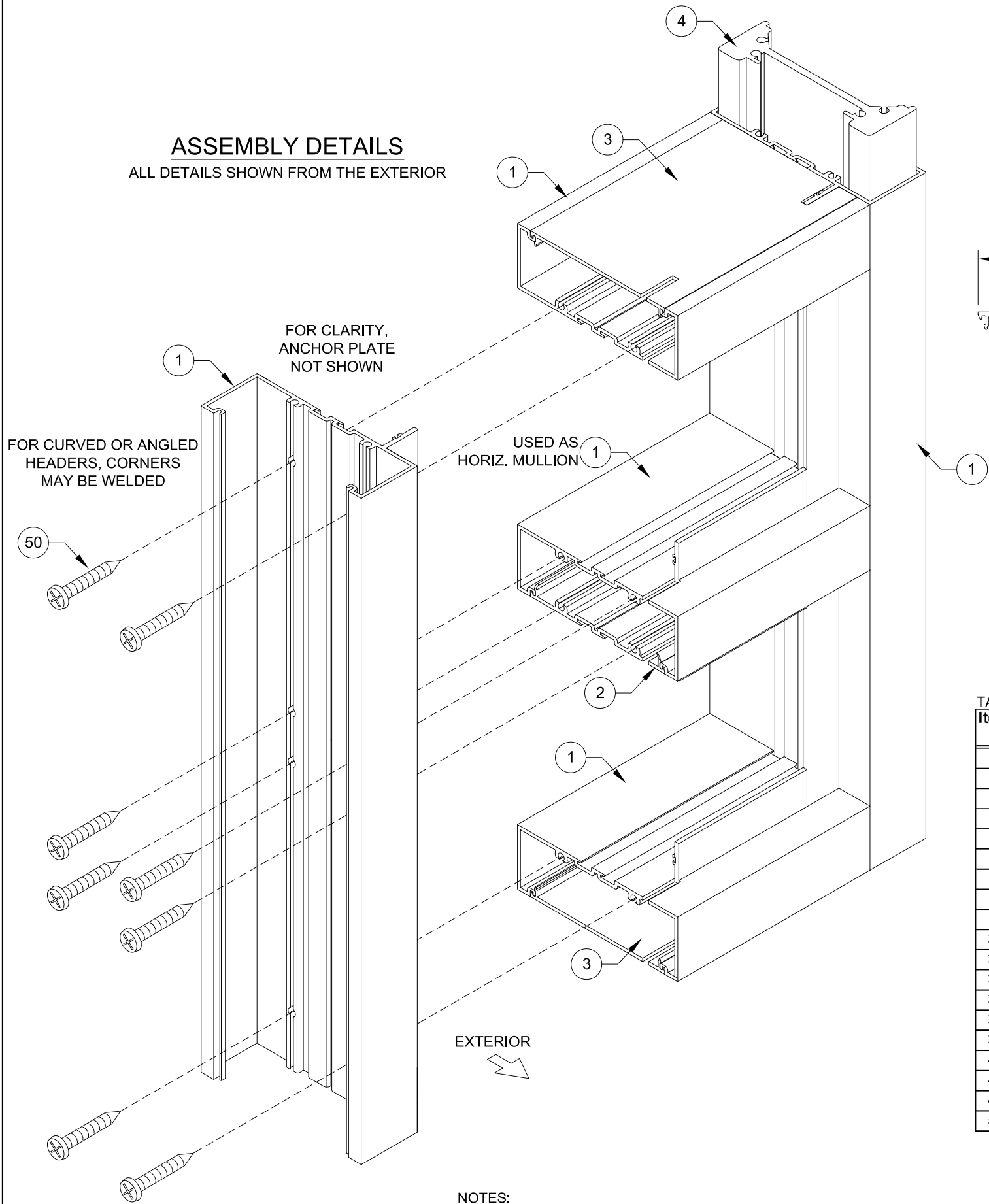


TABLE 10:

Item #	CGI Part #	Description	Material
1	CGIC-001	FRAME HEAD, JAMB & SILL	ALUM. (6063-T6)
2	CGIC-002	POCKET FILLER	ALUM. (6063-T6)
3	CGIC-003	FLAT SNAP COVER	ALUM. (6063-T6)
4	CGIC-008	ALUMINUM REINFORCEMENT	ALUM. (6063-T6)
5	CGIC-004	GLASS STOP "A"	ALUM. (6063-T6)
6	CGIC-005	GLASS STOP "B"	ALUM. (6063-T6)
8	MISC-087	ANCHOR CHANNEL	ALUM. (6063-T6)
9	ARCH-079	FRAME HEAD & JAMB (BENDABLE)	ALUM. (6063-T6)
10	CGIC-009	STEEL REINFORCEMENT	C. STEEL (A-36)
30	MISC-127	SETTING BLOCK 3/16" X 7/16" X 4", DURO=85 ±5	EPDM
31	MISC-128	IG SETTING BLOCK 3/16" X 1-3/32" X 4", DURO=85 ±5	EPDM
36		KOMMERLING KODISPACE 4SG TPS SPACER SYSTEM	SEE SHEET 15 FOR MATERIALS
37		QUANEX SUPER SPACER NXT WITH HOT MELT BUTYL	
38		QUANEX DURASEAL	
39		CARDINAL XL EDGE SPACER	
40	GSKT-006	GLAZING GASKET, GLASS STOP, DURO=65 ±5	EPDM
41	GSKT-007	GLAZING GASKET, GLAZING LEG, DURO=80 ±5	SANTOPRENE
42	SILC-131/132	SILICONE BACKBEADING: DOW791,983,995, GE7700	
50	SCRW-010	#12X1-1/2" HEX WASHER SCREW (ASSEMBLY)	STAINLESS STEEL

- NOTES:
- PARTS 11-29, 32-35, & 43-49 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.
 - SEE SHEET 11 FOR PARTS 4 & 10.



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A. LYNN MILLER, P.E.
P.E.# 58705

By J ROSOWSKI

BOM & EXTRUSIONS
STOREFRONT WINDOW SYSTEM DETAILS - LM

SS-3500

Sheet 16 OF 16

MD-3500-2-LM

Date 03/23/16

Rev. A