

SERIES 3090 WINDOW WALL
SMALL MISSILE IMPACT (S.M.I.)
IMPACT LEVEL "D"

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOW WALL RATED FOR SMALL MISSILE IMPACT, SYSTEM TO BE USED AT 30 FT ABOVE GRADE. SYSTEM TESTED FOR IMPACT LEVEL "D".
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURAL OR WOOD STRUCTURAL BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- 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.

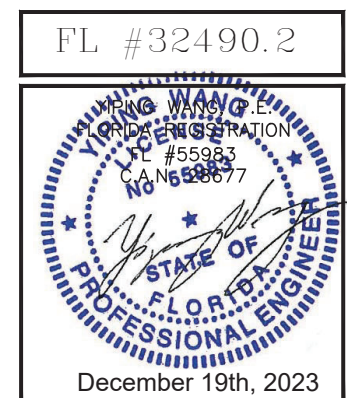
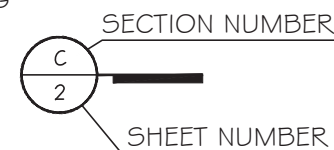
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.
- STEP 2: SEE G1 FOR GLASS OPTIONS. SEE CHART ON G1 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP 3: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHART ON M1 TO M3. THE CAPACITY SHOULD EXCEED THE JOB DESIGN LOAD.
- STEP 4: SEE ANCHOR TYPE ON SHEET A1. SEE SHEET A2 TO A4 FOR NUMBER OF ANCHORS AND CAPACITIES ALLOWED FOR SIZE.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2,3 & 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM. WHEN USE SYSTEM WITH DOOR, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLIGHT OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



SERIES 3090 WINDOW WALL -SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

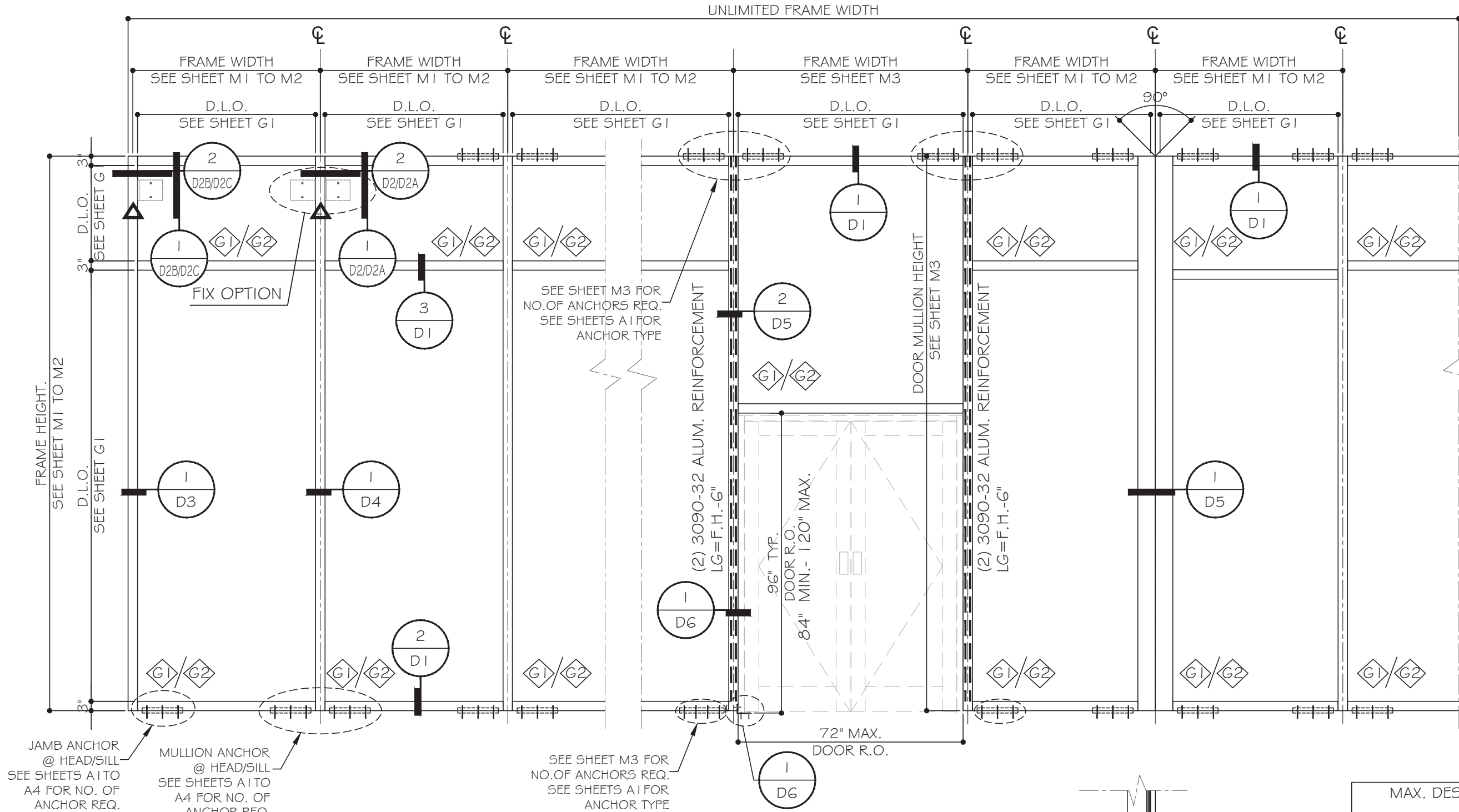
MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL. 33027 F: 305.271.0117

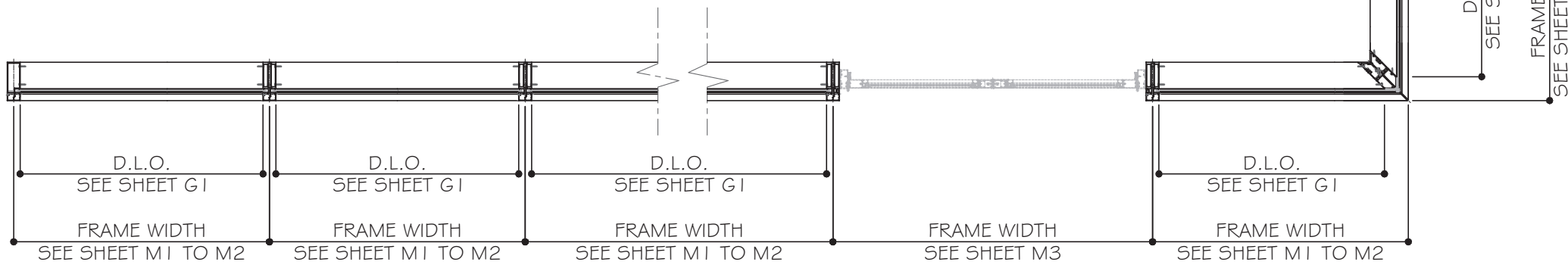
mcy@mcyengineering.com

www.MCYEngineering.com



△ - WIND LOAD ANCHOR

TYPICAL EXTERIOR ELEVATION



MAX. DESIGN LOAD
SEE DESIGN LOAD ON SHEET
G1 & M1 & M2 & M3

FL #32490.2

December 19th, 2023

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Rev. No.	Date	Drawn By	Description
R2	12.09.2023	James	UPDATE TO FBC 2023

Drawn Date 12.19.2023 Scale AS SHOWN

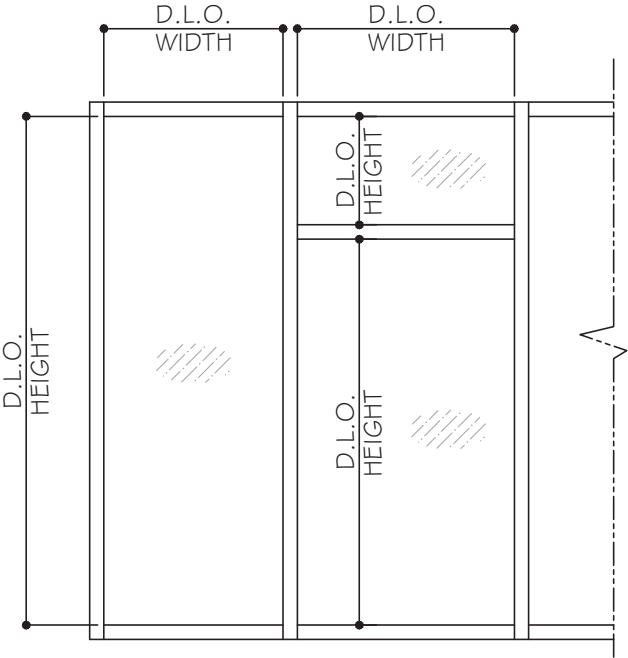
DRAWING NO. AD20-27

E1

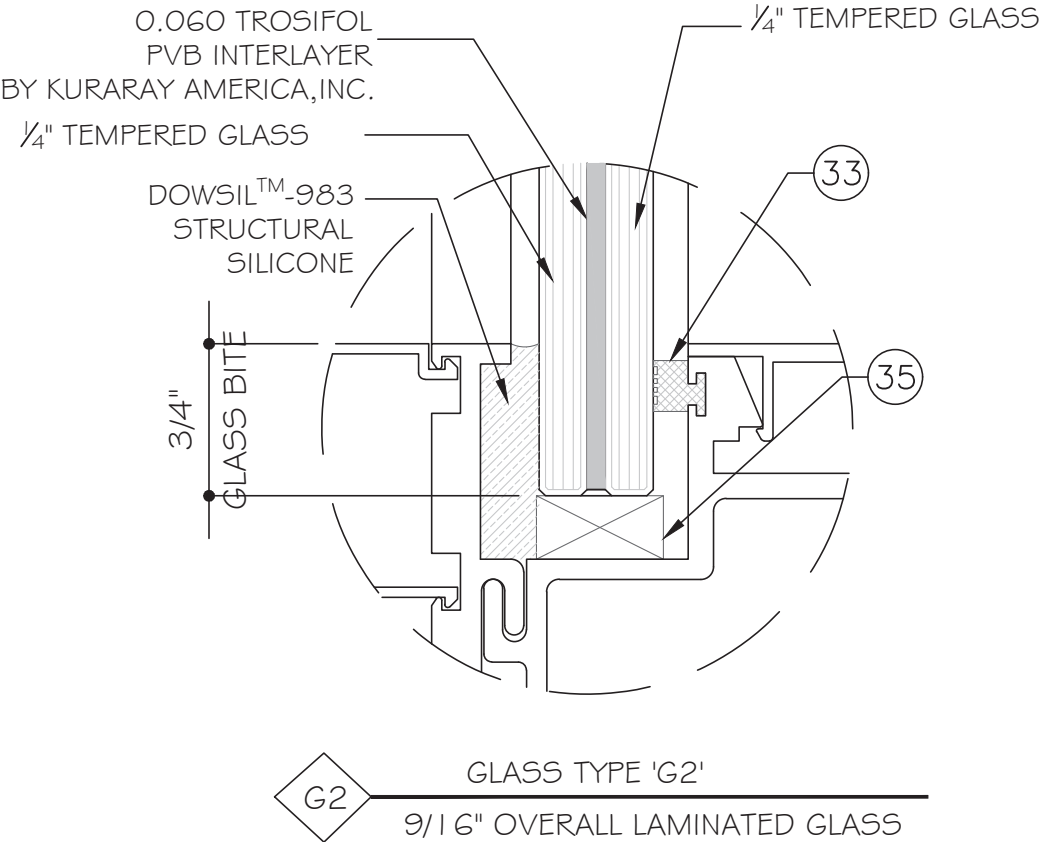
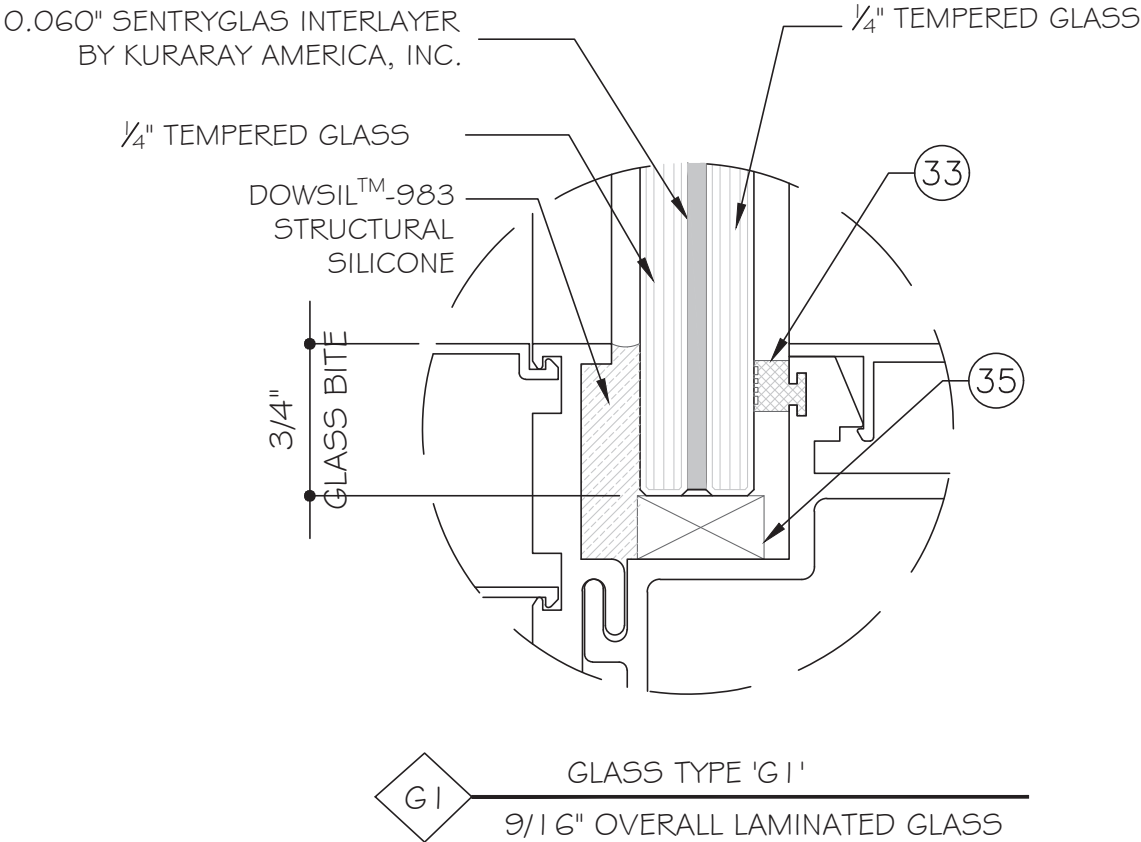
Sheet No. 2 OF 25

CHART 1 : GLASS CAPACITIES-SMI

GLASS LOAD CAPACITY				
DAYLIGHT OPENING	GLASS TYPES			
MAX. D.L.O. AREA	G1		G2	
(FT ^ 2)	+(PSF)	-(PSF)	+(PSF)	-(PSF)
50.370	120	190	120	160
54.625	120	190	-	-



NOTE:
GLASS COMPLIES WITH ASTM E1300-16
(3 SEC. GUSTS).



FL #32490.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 88897

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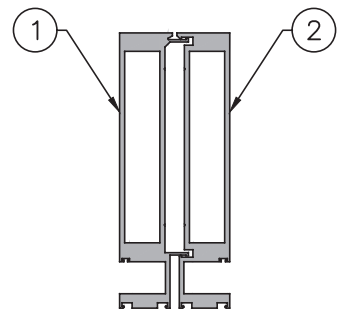
G1

Sheet No.

3 OF 25

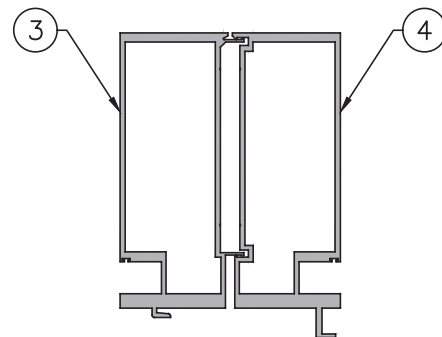
CHART 2: MULLION CAPACITIES

MULLION LOAD CAPACITIES									
NOMINAL DIMENSIONS		MULLION TYPES							
FRAME WIDTH MAX.	FRAME HEIGHT MAX.	M1		M2		J1		C1	
(INCH)	(INCH)	+(PSF)	-(PSF)	+(PSF)	-(PSF)	+(PSF)	-(PSF)	+(PSF)	-(PSF)
60	160	110	110	110	110	110	110	120	170
54	177 1/2	90	90	90	90	90	90	120	170
68 3/8	177 1/2	-	-	90	90	90	90	120	170
77 1/2	177 1/2	-	-	-	-	90	90	120	170



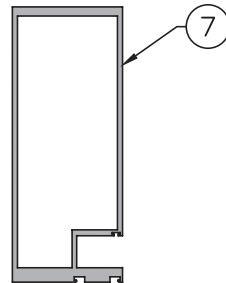
MULLION 'MI'

	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	43.6576	11.4037



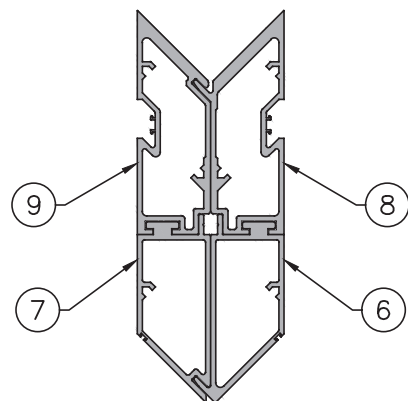
MULLION 'M2'

	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	67.6468	15.4350



MULLION 'J I'

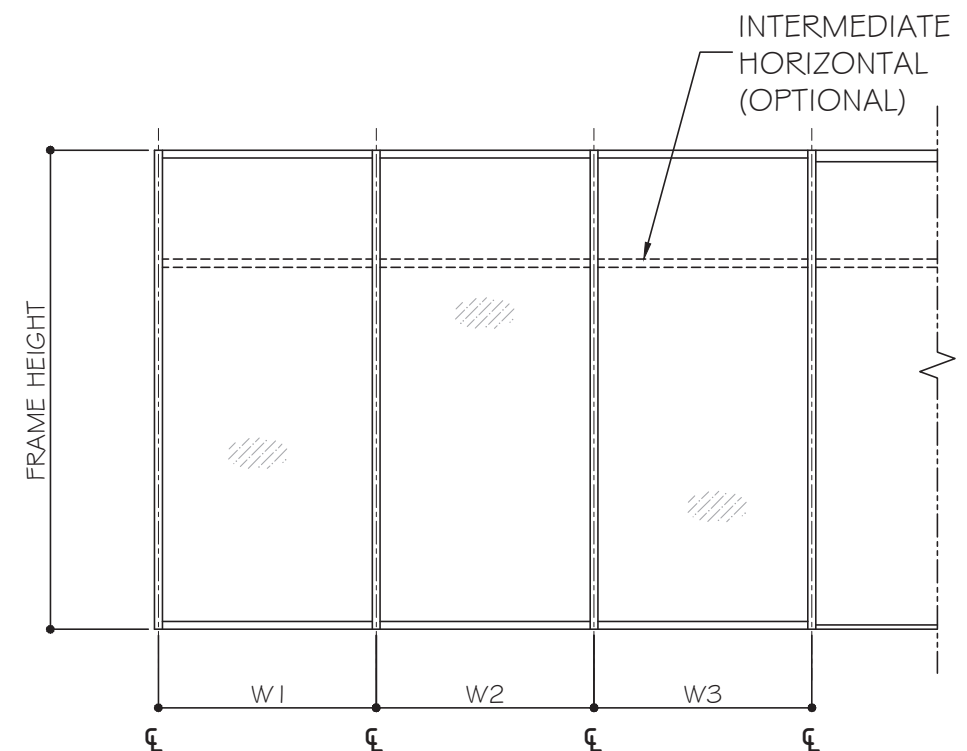
	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	31.7090	7.7151



CORNER MULLION 'C I'

	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	84.38	15.002

NOTE:
CORNER MULLION CHECKED WITH EQUAL POSITIVE
LOAD OR EQUAL NEGATIVE LOAD APPLIED ON BOTH
SIDES. CONDITION OTHER THAN ABOVE, TO BE
ENGINEERED SEPARATELY ON JOB BASES.
EQUAL LOAD:
 $B_x * w_{nx} = B_y * w_{ny}$ or $B_x * w_{px} = B_y * w_{py}$
 B_x, B_y - PANEL WIDTH AT X, Y DIRECTION
 w_{nx}, w_{ny} - NEGATIVE WIND LOAD AT AT X, Y DIRECTION
 w_{px}, w_{py} - POSITIVE WIND LOAD AT AT X, Y DIRECTION



FRAME WIDTH = W1
AT JAMB

$$\text{FRAME WIDTH AT MULLION} = \frac{W_2 + W_3}{2}$$

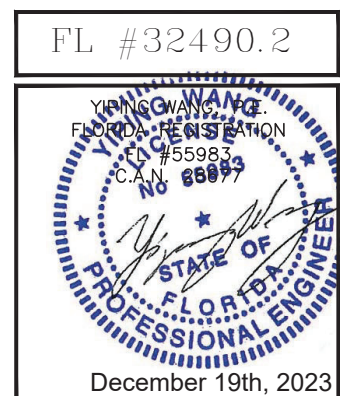
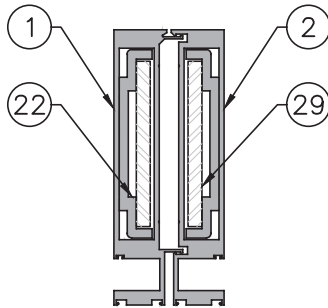


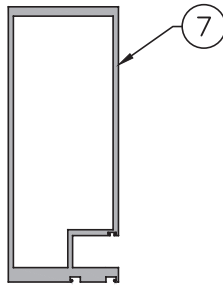
CHART 3: MULLION CAPACITIES

MULLION LOAD CAPACITIES					
NOMINAL DIMENSIONS		MULLION TYPES			
FRAME WIDTH MAX.	FRAME HEIGHT MAX.	M3		J1	
(INCH)	(INCH)	+(PSF)	-(PSF)	+(PSF)	-(PSF)
61 1/2	160	120	160	120	156



MULLION 'M3'

	lx IN^4	Sx IN^3
ALUMINUM	52.5926	11.4037
STEEL	5.6954	2.5312
TOTAL lx ALUM+STL X2.9	69.109	

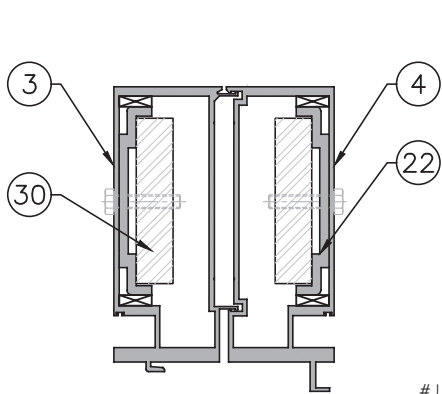


MULLION 'J1'

	lx IN^4	Sx IN^3
ALUMINUM	31.7090	7.7151

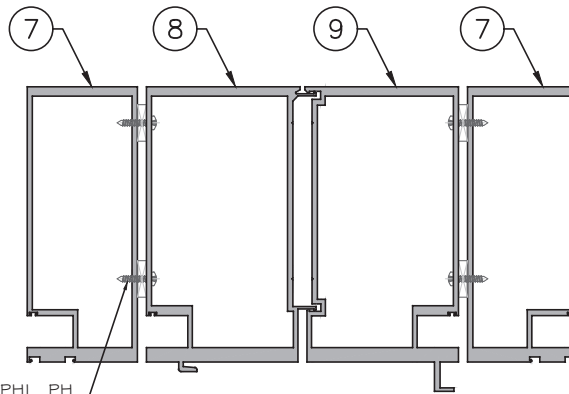
CHART 4: MULLION CAPACITIES

MULLION LOAD CAPACITIES													
NOMINAL DIMENSIONS		MULLION TYPES											
FRAME WIDTH MAX.	FRAME HEIGHT MAX.	M4		M5		J2		J2A		J3		C2	
(INCH)	(INCH)	+(PSF)	-(PSF)	+(PSF)	-(PSF)	+(PSF)	-(PSF)	+(PSF)	-(PSF)	+(PSF)	-(PSF)	+(PSF)	-(PSF)
69	177 1/2	120	190	120	190	120	187	120	190	120	190	120	190
72	177 1/2	-	-	120	190	120	179	120	190	120	190	120	190
73 3/4	177 1/2	-	-	-	-	120	175	120	190	120	190	120	190
77 1/2	177 1/2	-	-	-	-	120	166.6	120	190	-	-	120	190



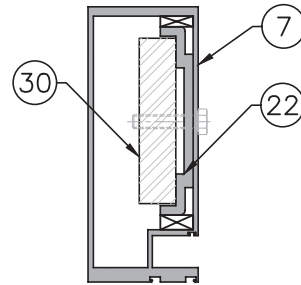
MULLION 'M4'

	lx IN^4	Sx IN^3
ALUMINUM	76.5818	17.4737
STEEL	15.1876	6.75
TOTAL lx ALUM+STL X2.9	120.6256	



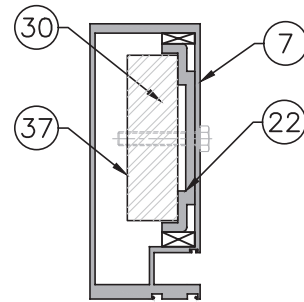
MULLION 'M5'

	lx IN^4	Sx IN^3
ALUMINUM	150.853	34.2911



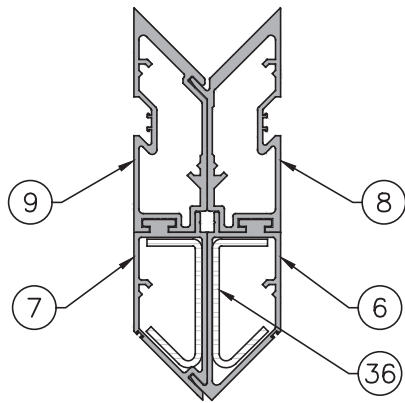
MULLION 'J2'

	lx IN^4	Sx IN^3
ALUMINUM	36.1765	8.8021
STEEL	7.5938	3.375
TOTAL lx ALUM+STL X2.9	58.1985	



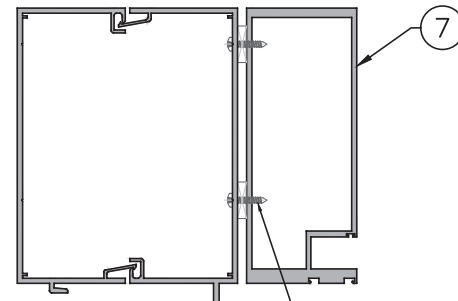
MULLION 'J2A'

	lx IN^4	Sx IN^3
ALUMINUM	36.1765	8.8021
STEEL	10.4415	4.6406
TOTAL lx ALUM+STL X2.9	66.455	



CORNER MULLION 'C2'

	lx IN^4	Sx IN^3
ALUMINUM	84.38	15.002
STEEL	3.5454	1.9904
TOTAL lx ALUM+STL X2.9	94.66	



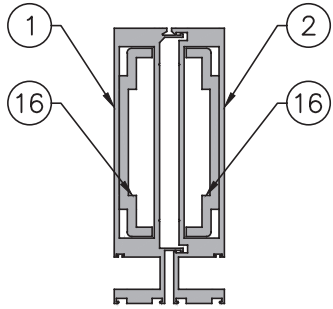
MULLION 'J3'

	lx IN^4	Sx IN^3
ALUMINUM	70.5316	16.7499

NOTE:
CORNER MULLION CHECKED WITH EQUAL POSITIVE LOAD OR EQUAL NEGATIVE LOAD APPLIED ON BOTH SIDES. CONDITION OTHER THAN ABOVE, TO BE ENGINEERED SEPARATELY ON JOB BASES.
EQUAL LOAD:
Bx*wnx=By*wny or Bx*wpw=By*wpy
Bx, By - PANEL WIDTH AT X, Y DIRECTION
wnx, wny- NEGATIVE WIND LOAD AT AT X, Y DIRECTION
wpw, wpy- POSITIVE WIND LOAD AT AT X, Y DIRECTION

CHART 5: MULLION CAPACITIES

MULLION LOAD CAPACITIES			
NOMINAL DIMENSIONS		MULLION TYPES	
SIDELITE WIDTH MAX.	FRAME HEIGHT MAX.	MD I	
(INCH)	(INCH)	+(PSF)	-(PSF)
60	177 1/2	90	90

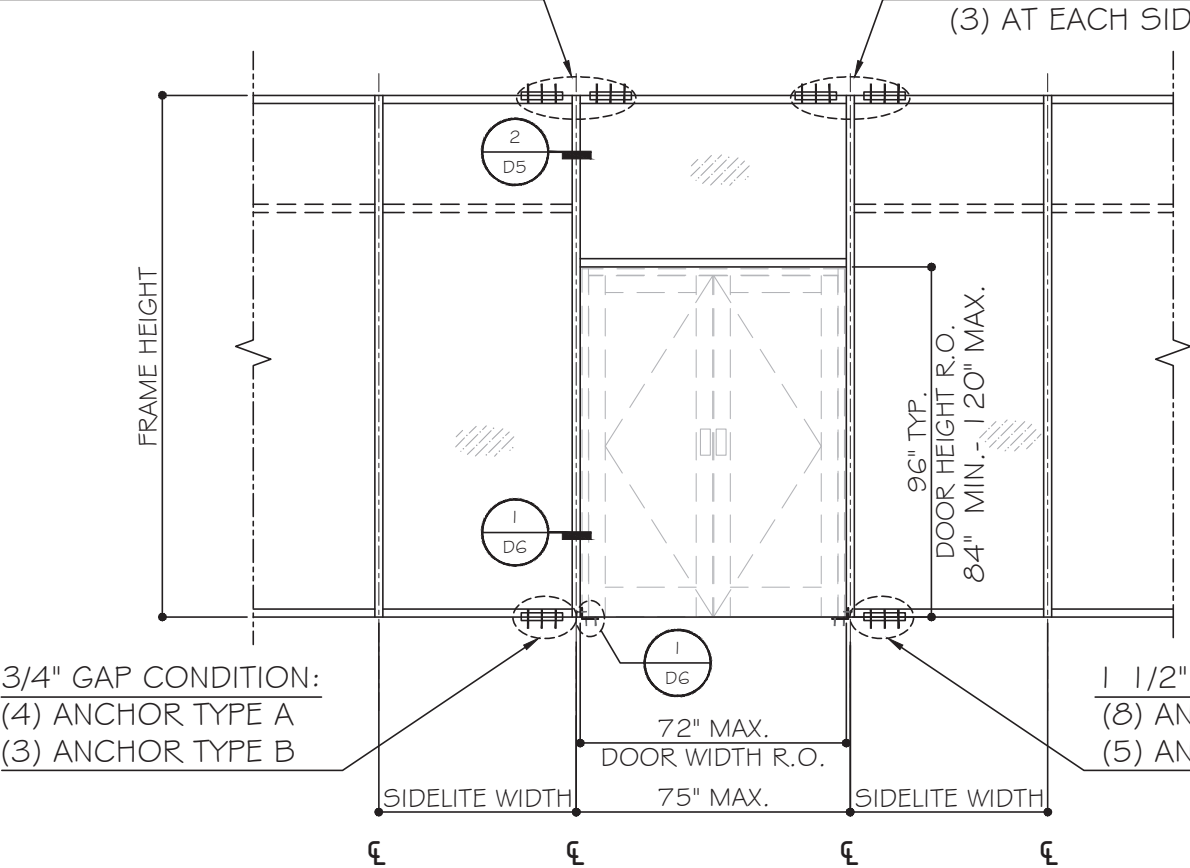


MULLION 'MD I'

	1x IN ^ 4	5x IN ^ 3
ALUMINUM	52.5926	13.7376

3/4" GAP CONDITION:
(4) AT EACH SIDE FOR ANCHOR TYPE A
(3) AT EACH SIDE FOR ANCHOR TYPE B,C,D

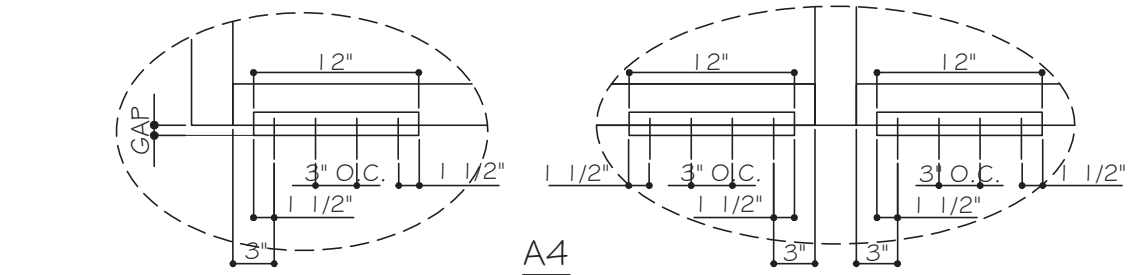
1 1/2" GAP CONDITION:
(8) AT EACH SIDE FOR ANCHOR TYPE A
(5) AT EACH SIDE FOR ANCHOR TYPE B
(3) AT EACH SIDE FOR ANCHOR TYPE C & D



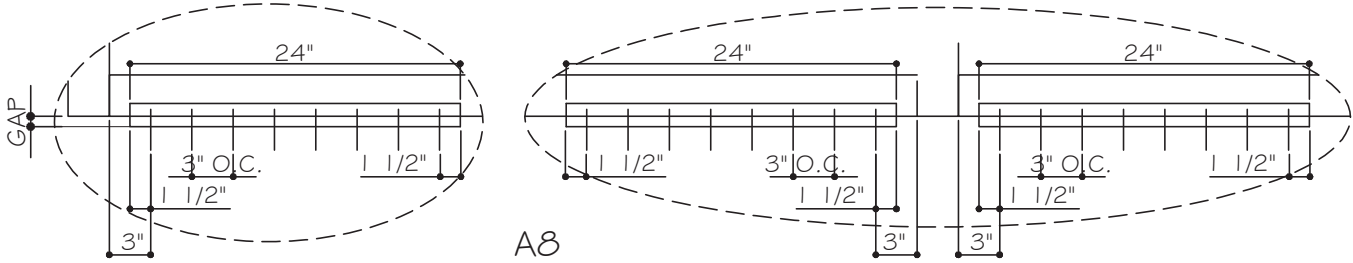
3/4" GAP CONDITION:
(4) ANCHOR TYPE A
(3) ANCHOR TYPE B

1 1/2" GAP CONDITION:
(8) ANCHOR TYPE A
(5) ANCHOR TYPE B

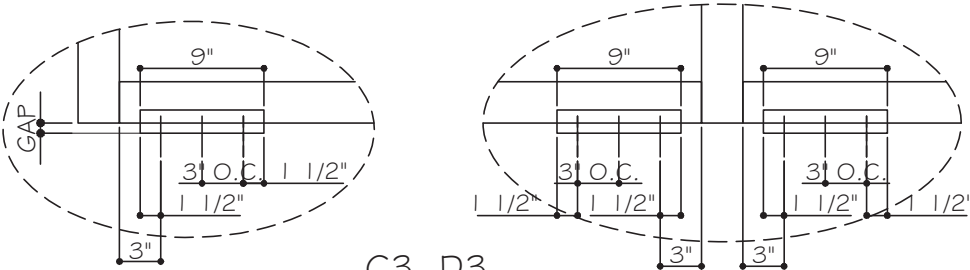
SEE SHEET A1 FOR ANCHOR TYPE



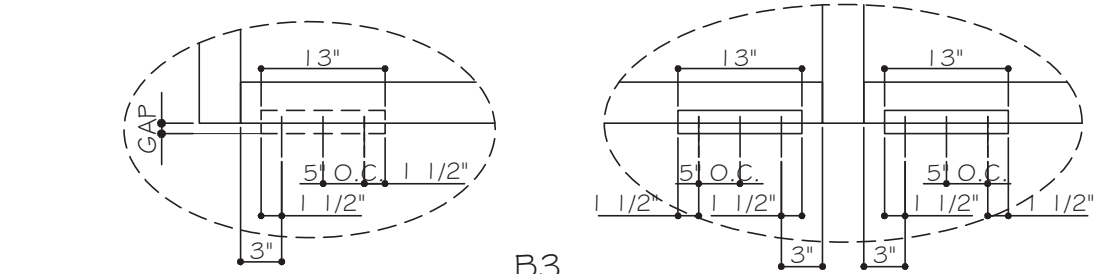
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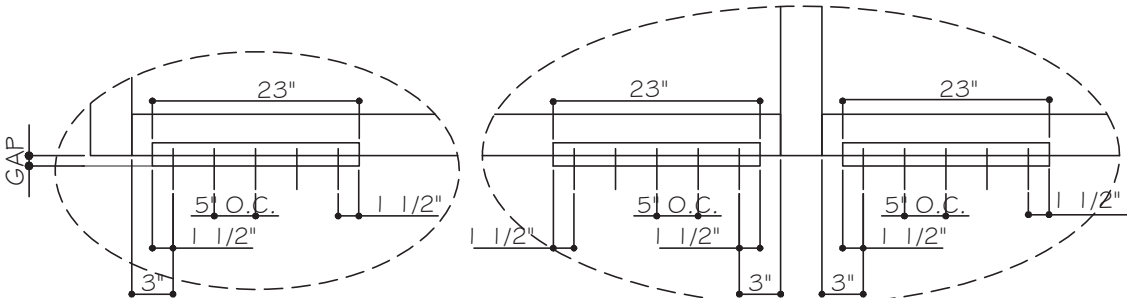
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C3, D3



B3



B5

FL #32490.2

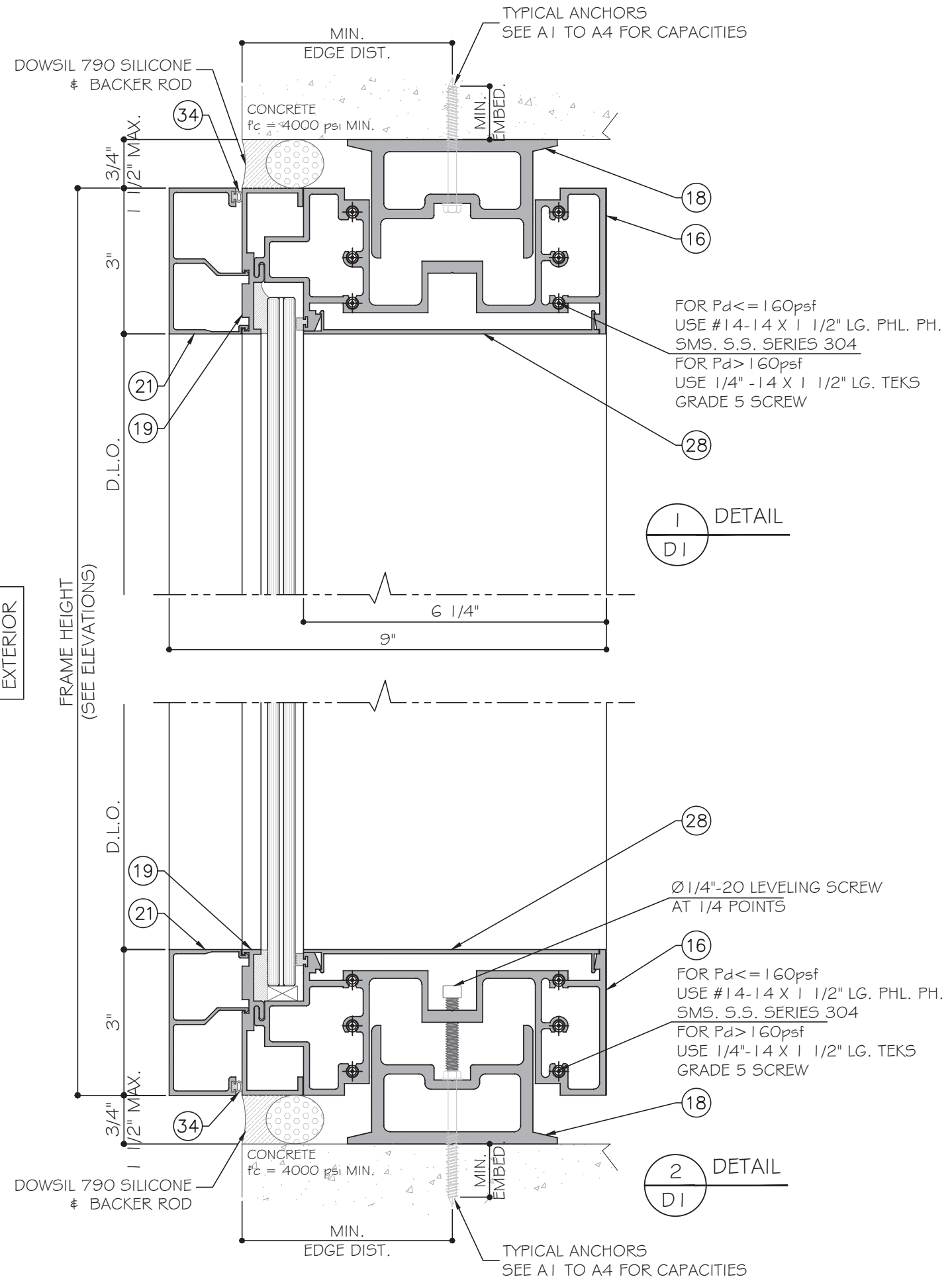
YIPING WANG
PROFESSIONAL ENGINEER
FL #55983
C.A.N. 558877

December 19th, 2023

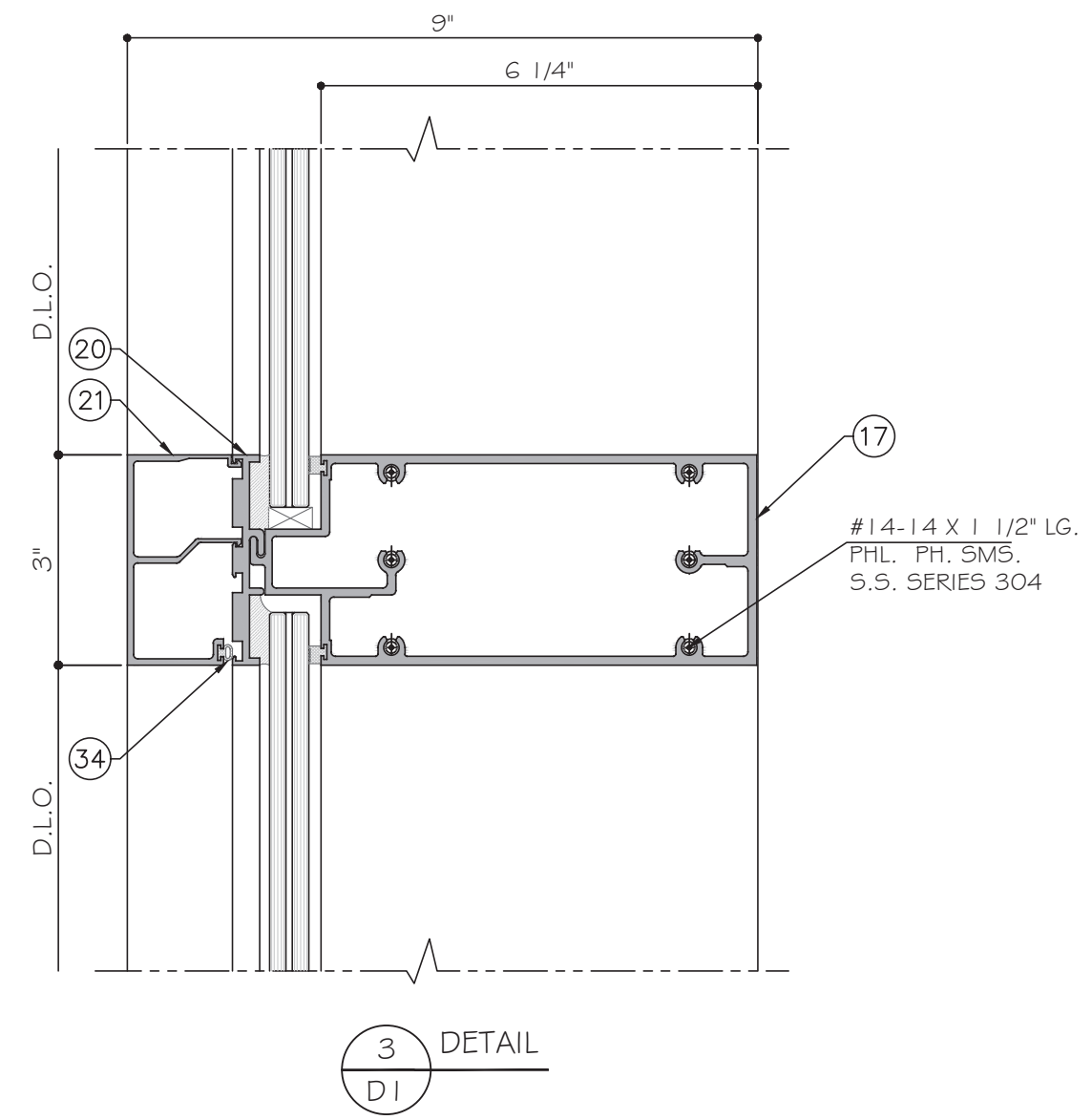
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R2	12.09.2023	James	UPDATE TO FEB 2023
Drawn Date 12.19.2023		Scale AS SHOWN	DRAWING NO. AD20-27
Sheet No. 6 OF 25		M3	

EXTERIOR

FRAME HEIGHT
(SEE ELEVATIONS)



EXTERIOR



FL #32490.2

YIP WANG, P.E.
PROFESSIONAL ENGINEER
FL #55983
C.A.N. 526677

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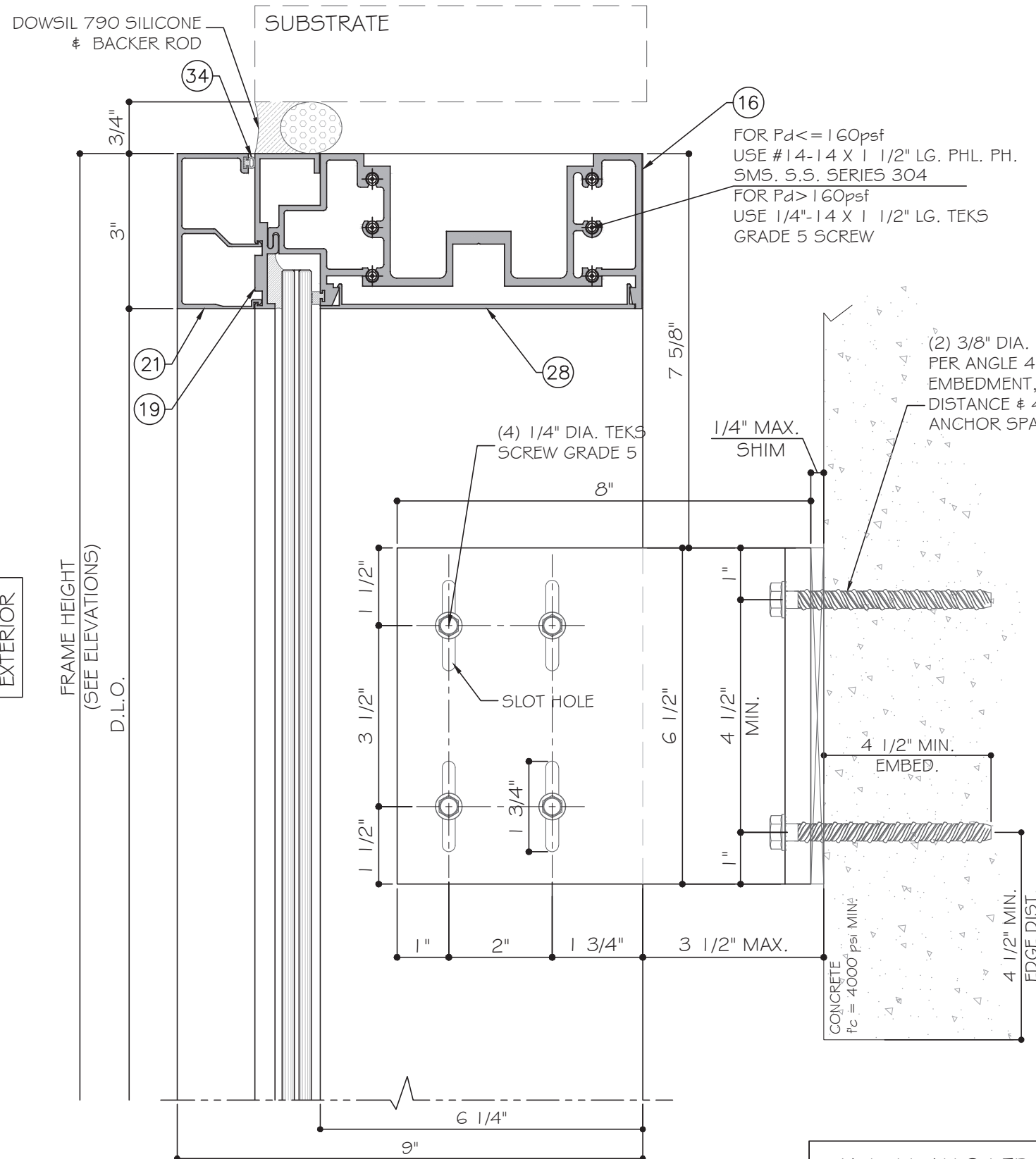
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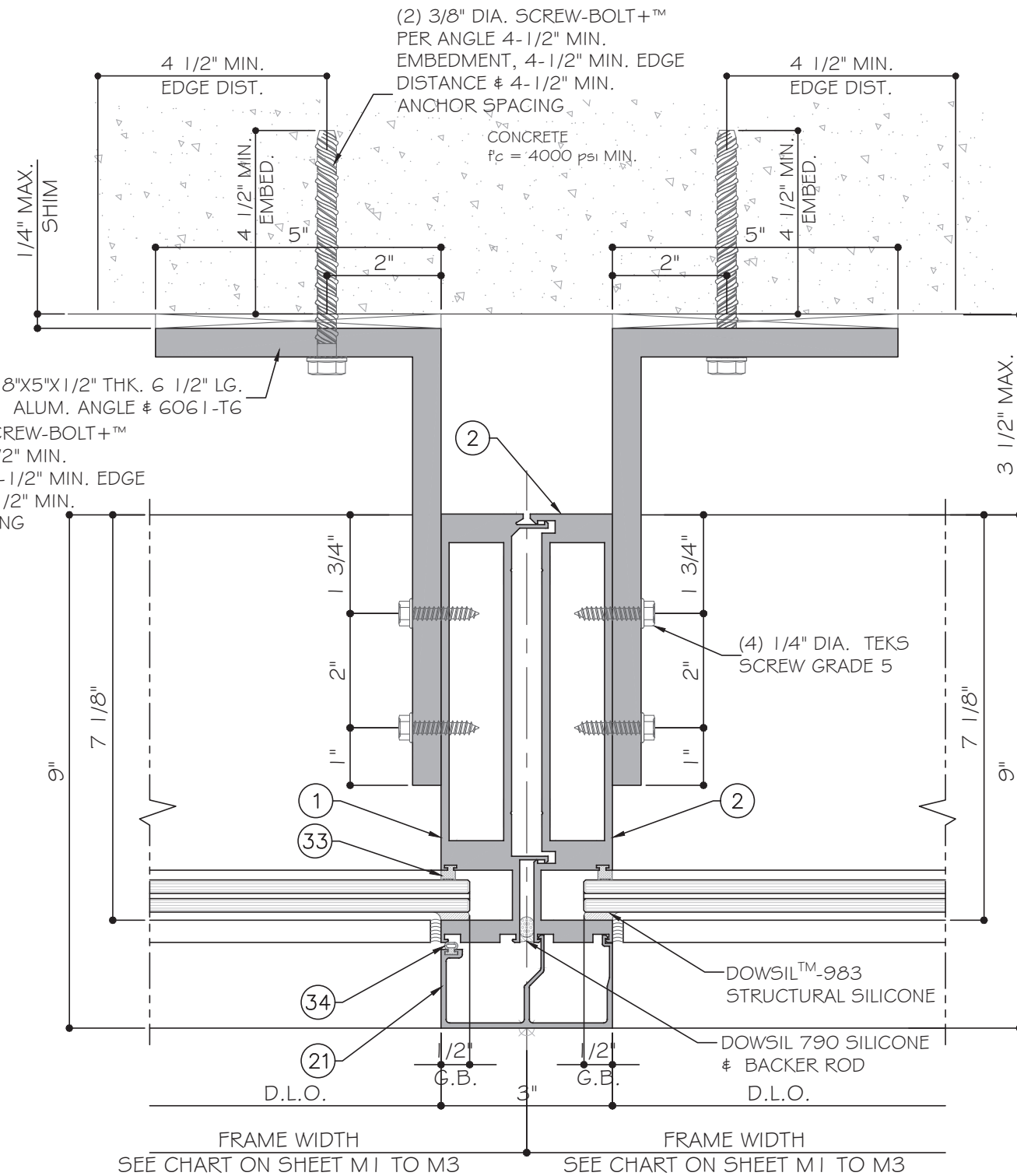
7 OF 25

EXTERIOR

FRAME HEIGHT
(SEE ELEVATIONS)
D.L.O.



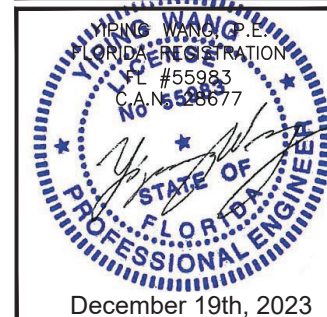
1
D2
DETAIL



EXTERIOR

2
D2
DETAIL

FL #32490.2



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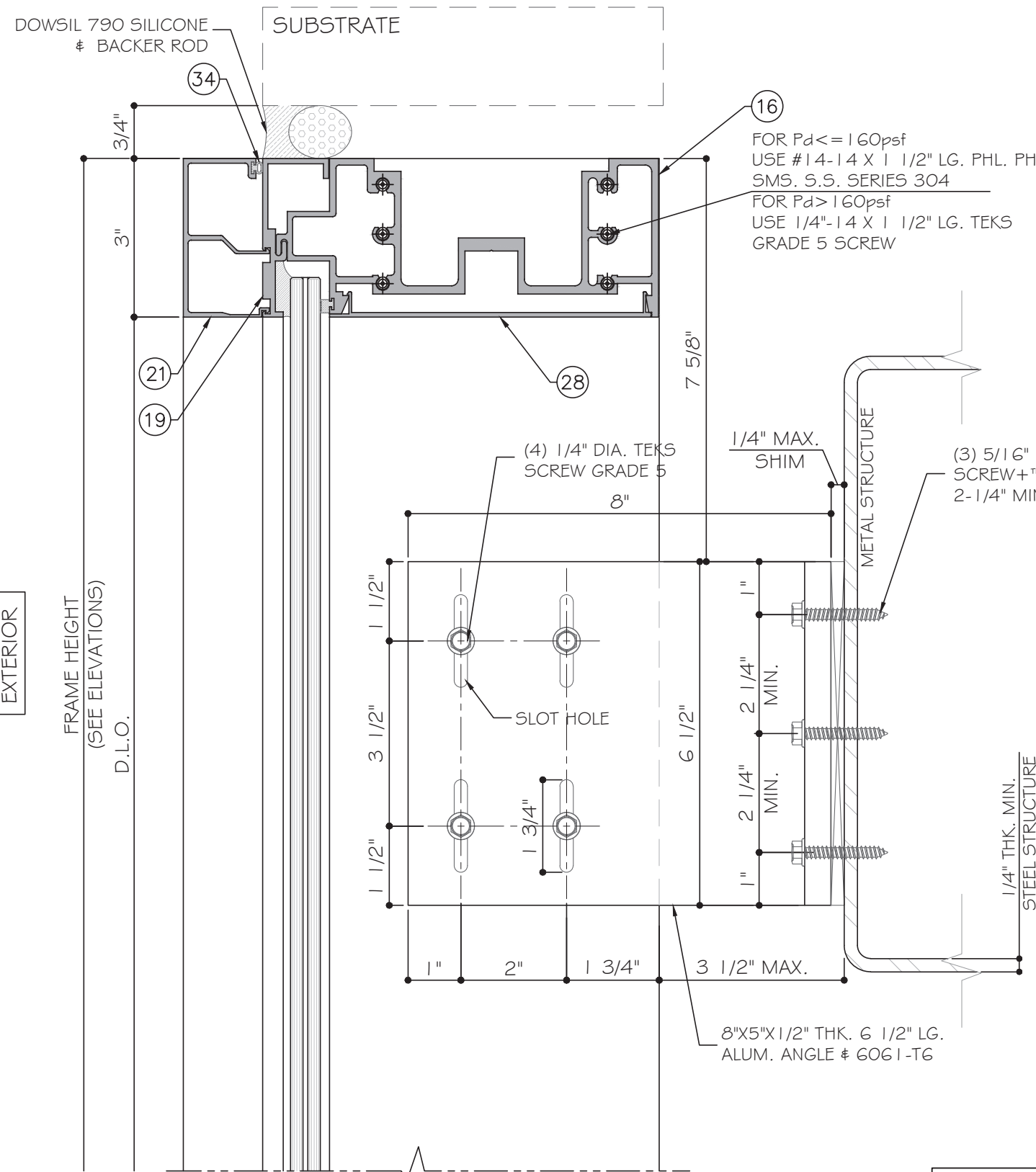
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AD20-27

D2

Sheet No.
8 OF 25

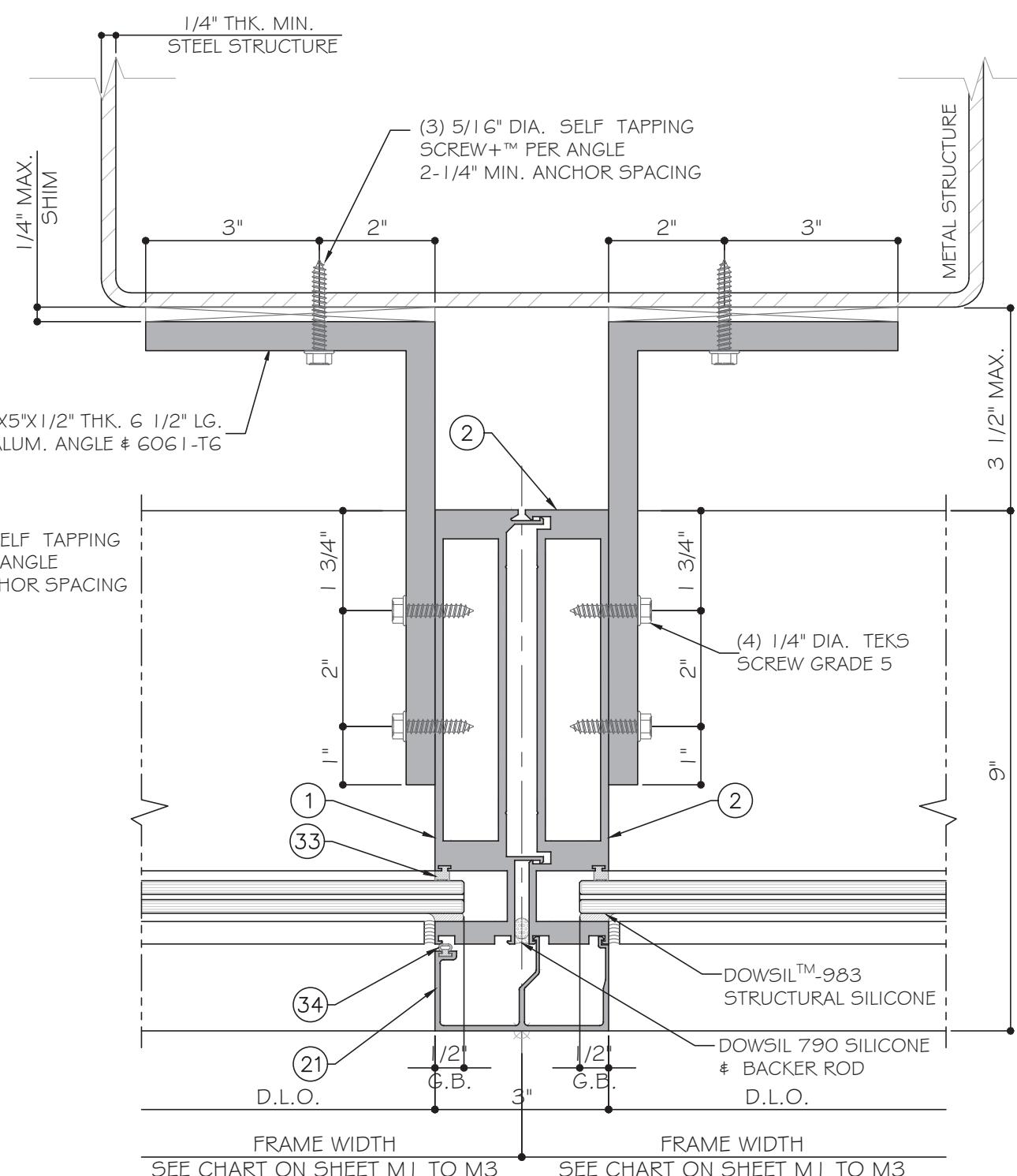
EXTERIOR

FRAME HEIGHT
(SEE ELEVATIONS)
D.L.O.



1
D2A
DETAIL
OPTION

MAX. WL ALLOWED:
R_w = 3760 LBF



EXTERIOR

2
D2A
DETAIL
OPTION

FL #32490.2

YIN WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 559877

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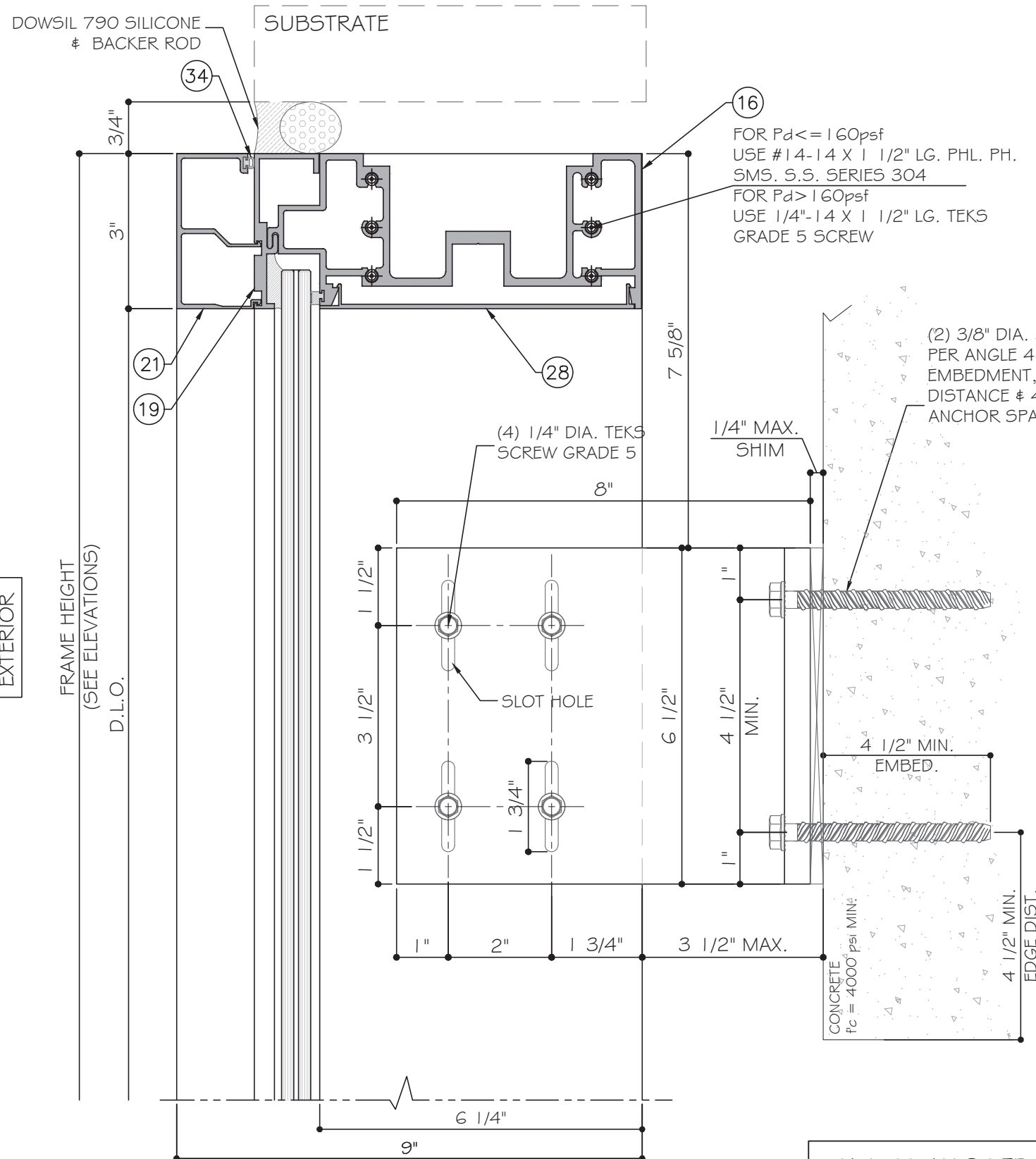
DRAWING NO. AD20-27

D2A

Sheet No. 9 OF 25

EXTERIOR

FRAME HEIGHT
(SEE ELEVATIONS)
D.L.O.



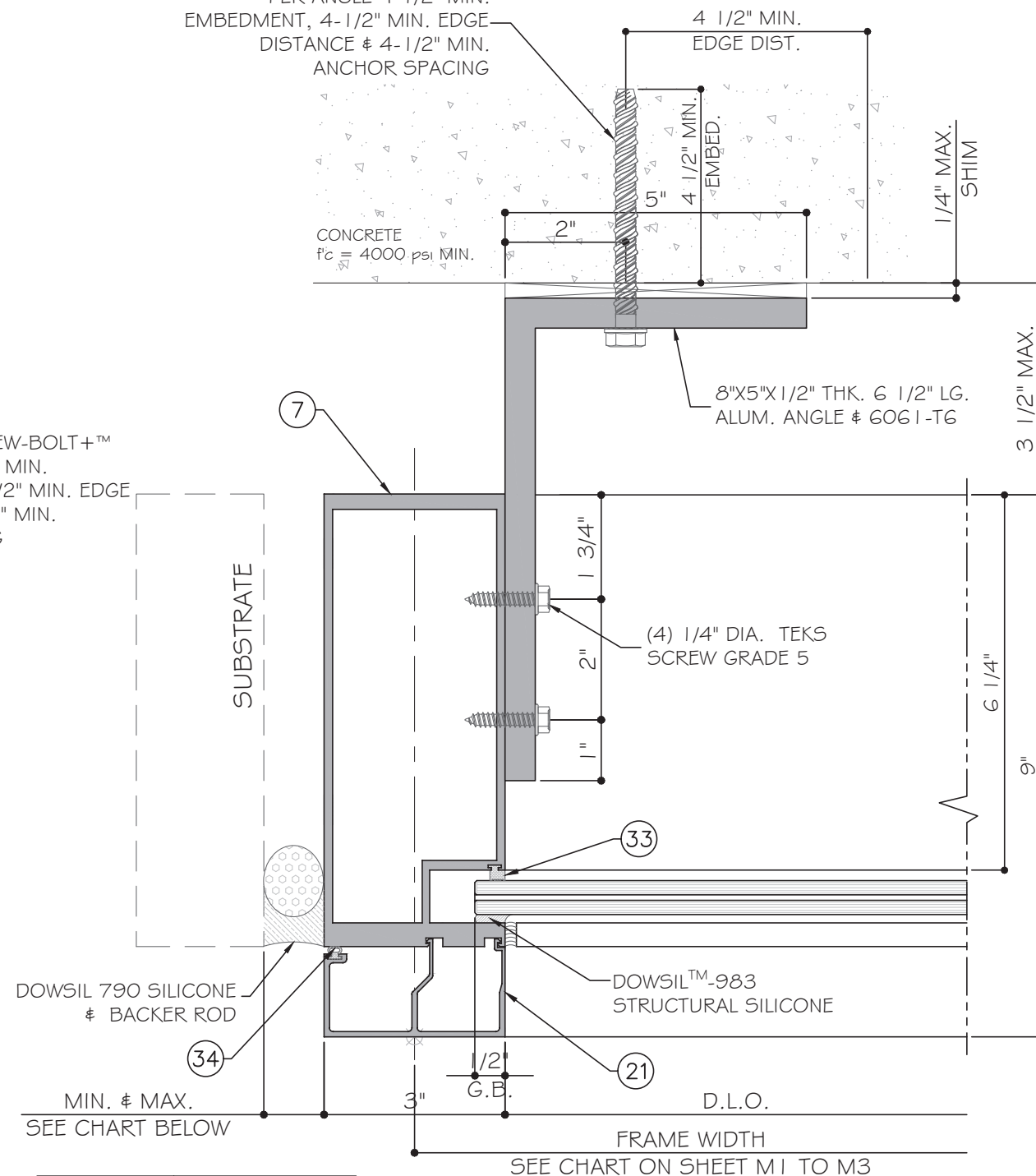
1
D2B
DETAIL

DOWSIL 790 SILICONE
& BACKER ROD
(34)
MIN. & MAX.
SEE CHART BELOW

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
120"	1/2"	1 1/2"
144"	1/2"	1 1/2"
160	5/8"	1 1/2"
177 1/2"	3/4"	1 1/2"

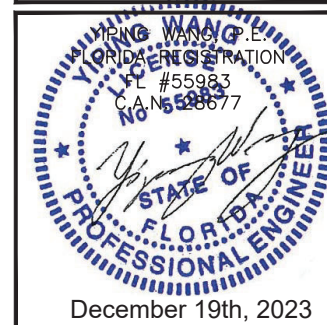
2
D2B
DETAIL

(2) 3/8" DIA. SCREW-BOLT+™
PER ANGLE 4-1/2" MIN.
EMBEDMENT, 4-1/2" MIN. EDGE
DISTANCE & 4-1/2" MIN.
ANCHOR SPACING



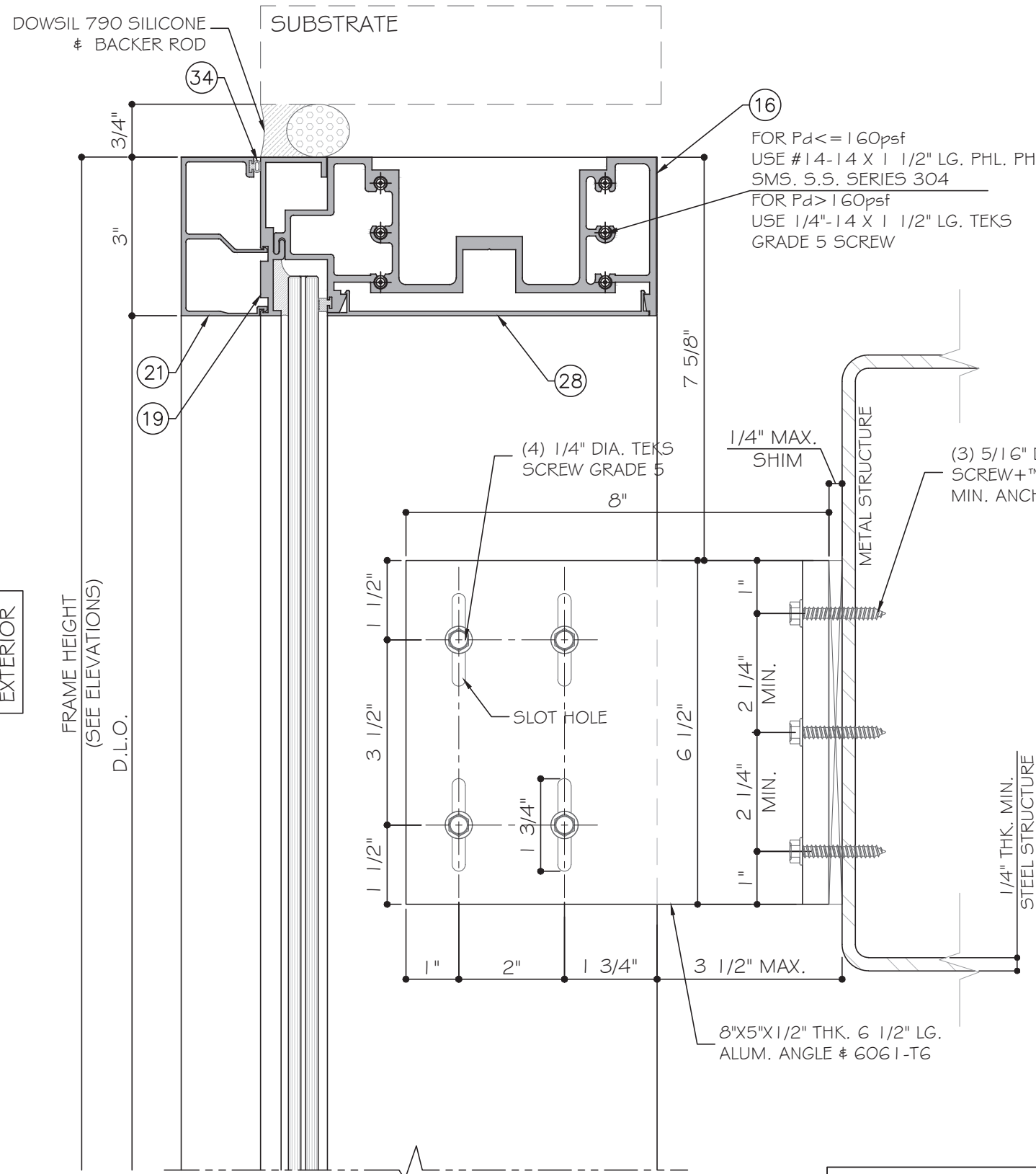
EXTERIOR

FL #32490.2



EXTERIOR

FRAME HEIGHT
(SEE ELEVATIONS)
D.L.O.



1
D2C
DETAIL
OPTION

MAX. WL ALLOWED:
Rw = 1880 LBF

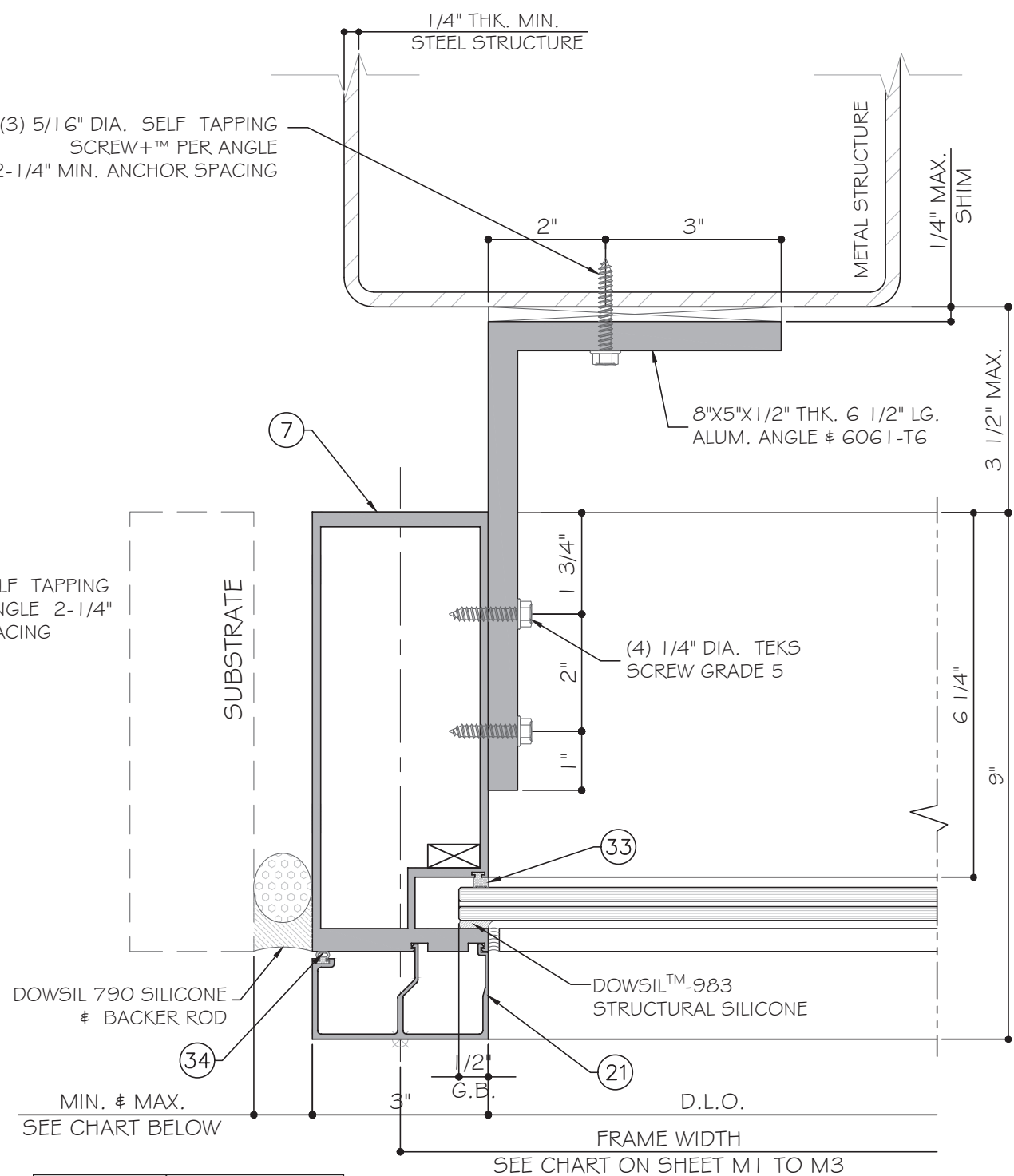
(3) 5/16" DIA. SELF TAPPING
SCREW+™ PER ANGLE
2-1/4" MIN. ANCHOR SPACING

DOWSIL 790 SILICONE
& BACKER ROD

MIN. & MAX.
SEE CHART BELOW

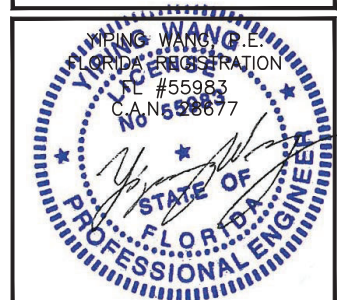
MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
120"	1/2"	1 1/2"
144"	1/2"	1 1/2"
160	5/8"	1 1/2"
177 1/2"	3/4"	1 1/2"

2
D2C
DETAIL
OPTION



EXTERIOR

FL #32490.2



December 19th, 2023

SERIES 3090 WINDOW WALL -SMI

CONTINENTAL GLASS SYSTEMS, LLC.

325 WEST 74 PLACE, HIALEAH, FL 33014

TEL. (305) 231-1101 FAX. (305) 231-1103

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301 P: 786.360.2786

MIRAMAR, FL 33027 F: 305.271.0117

www.MCYEngineering.com mcy@mcycengineering.com

Rev.	Date	Drawn By	Description
R2	12.09.2023	James	UPDATE TO FBC 2023

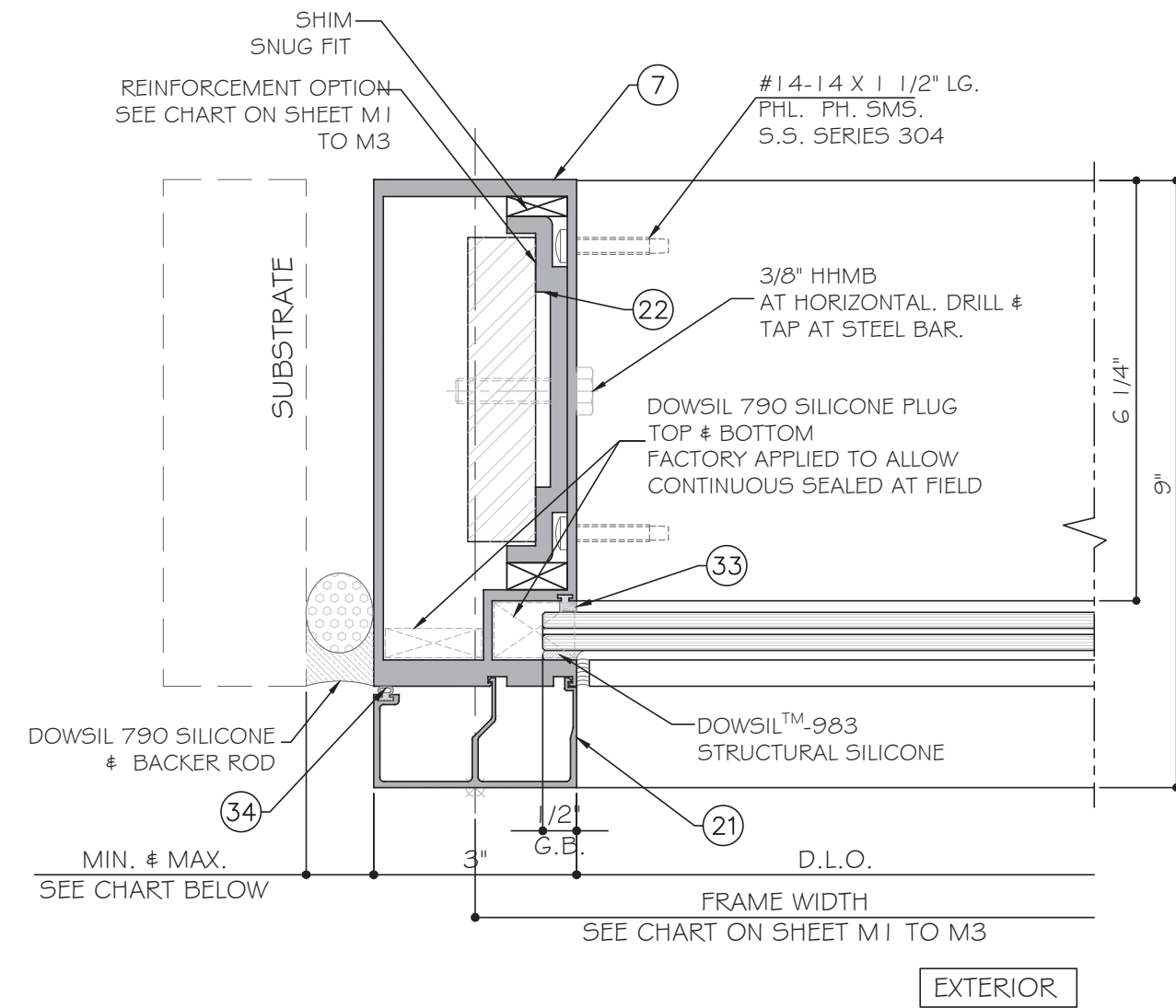
Drawn Date
12.19.2023

Scale
AS SHOWN

DRAWING NO.
AD20-27

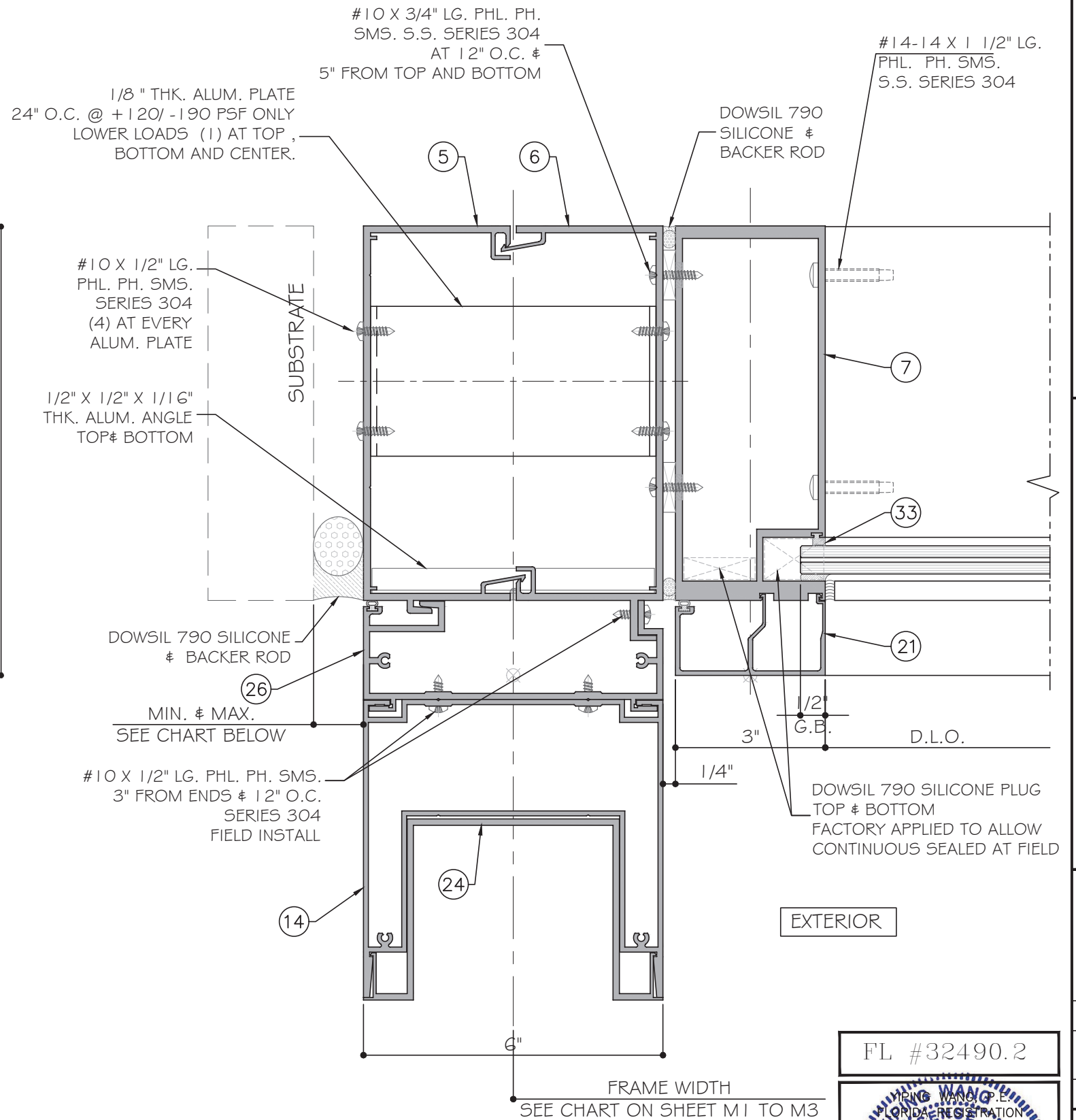
D2C

Sheet No.
11 OF 25

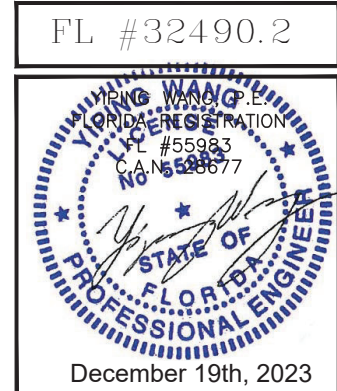


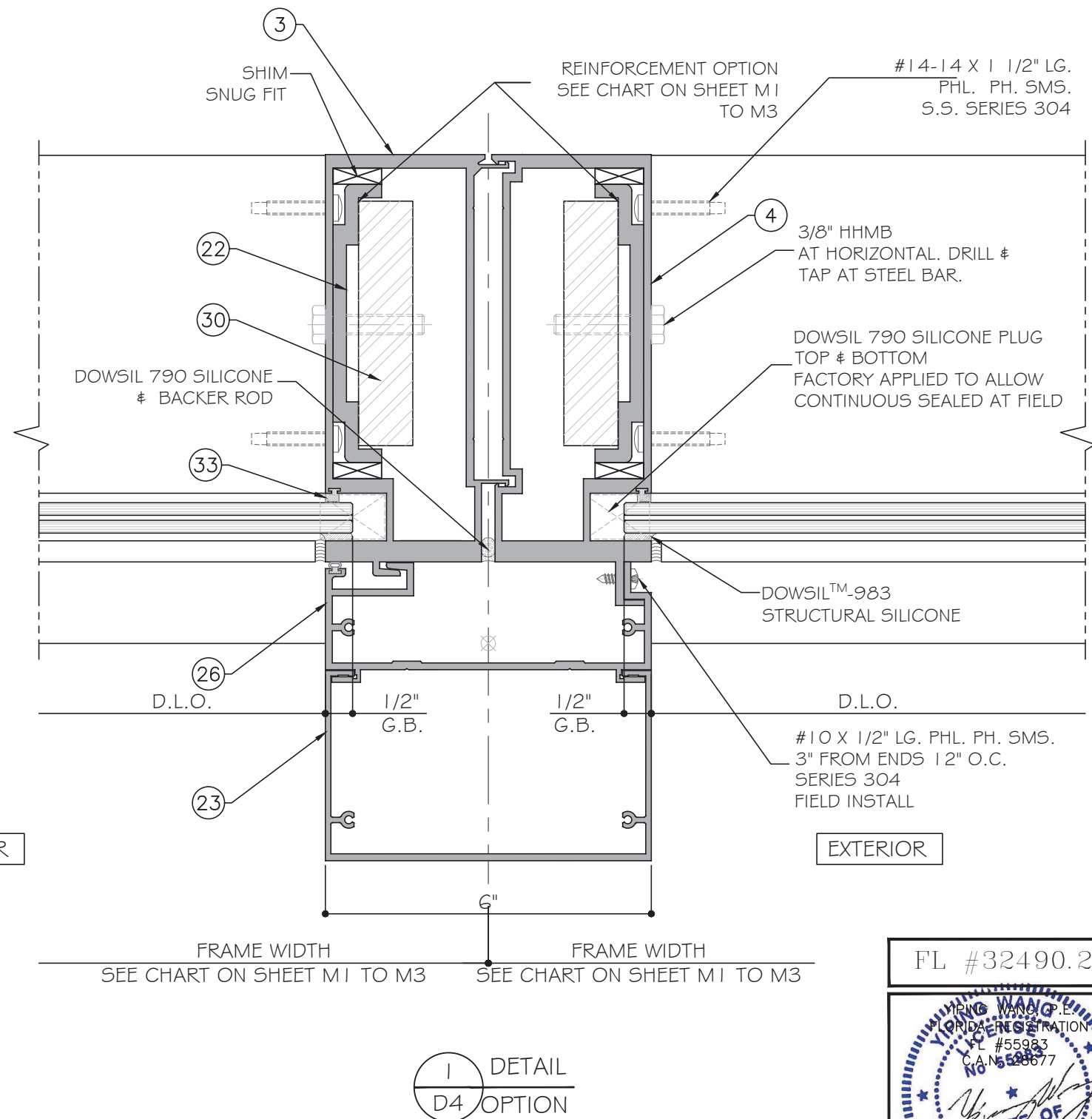
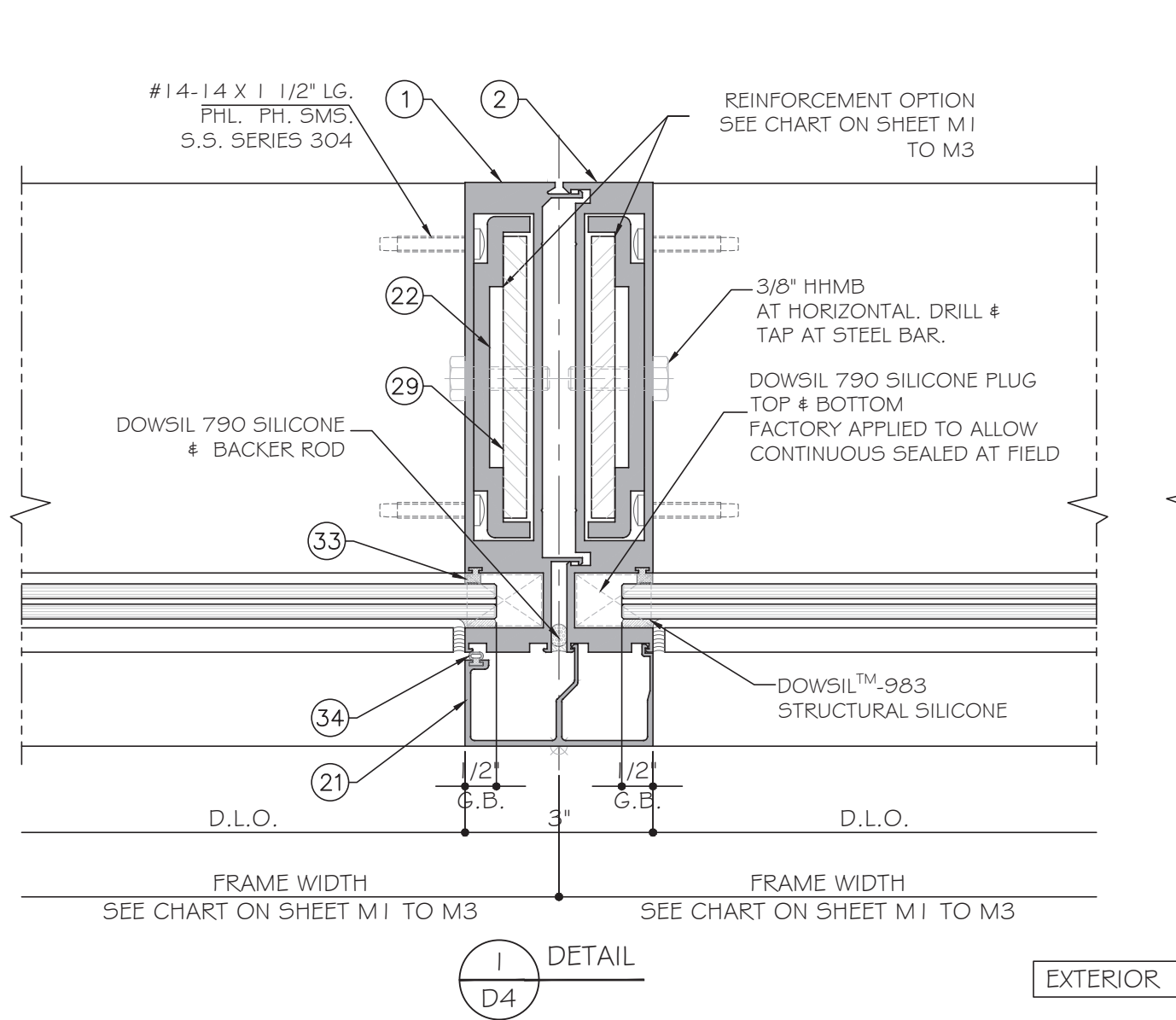
MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
120"	1/2"	1 1/2"
144"	1/2"	1 1/2"
160	5/8"	1 1/2"
177 1/2"	3/4"	1 1/2"

1
D3 DETAIL



1
D3 OPTION DETAIL





FL #32490.2

YIPING WANG, P.E.
FLORIDA REGISTRATION #55983
C.A.N. 526677

December 19th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL 33027 F: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

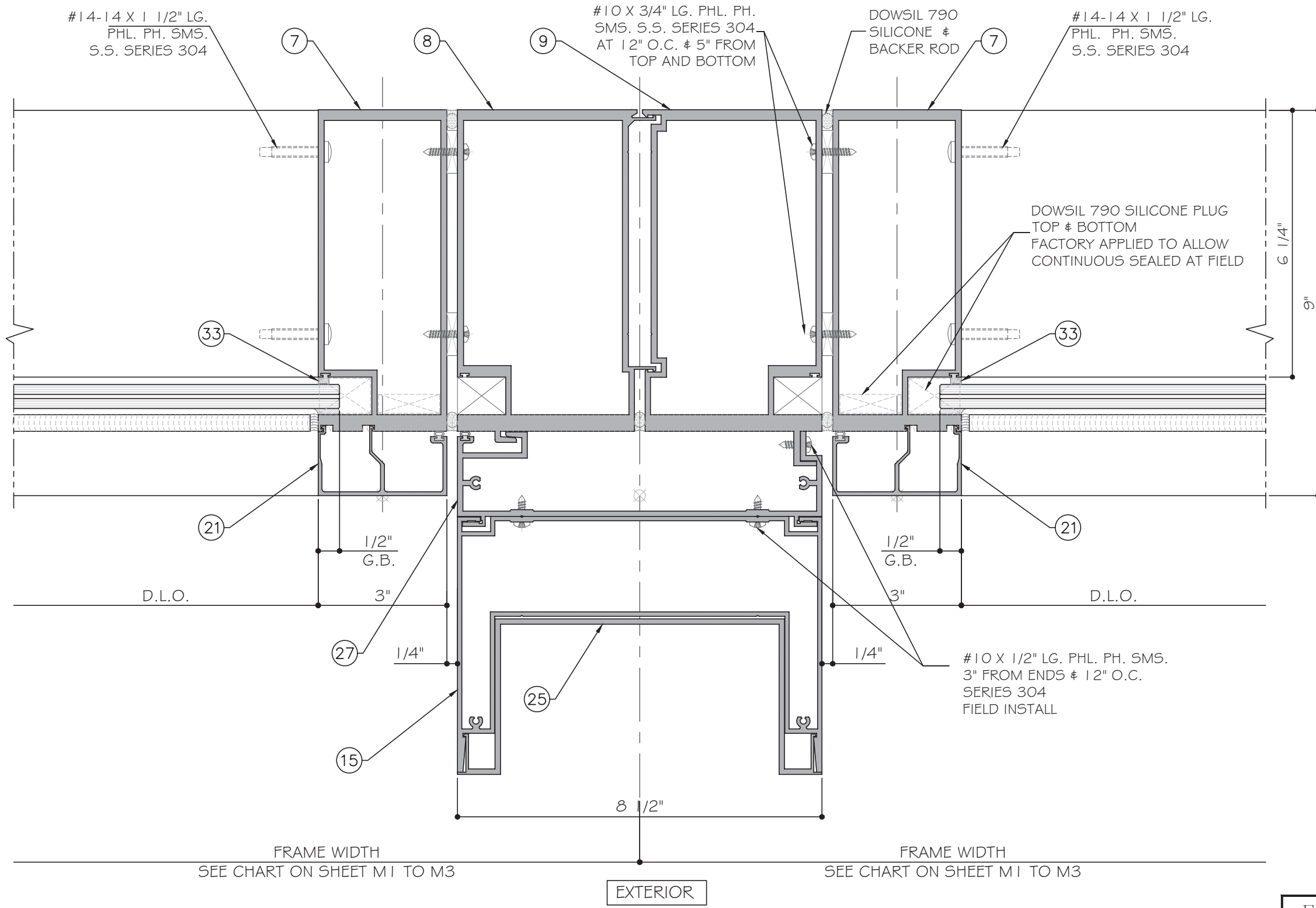
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

Rev. No.	Date	Drawn By	Description
R2	12.09.2023	James	UPDATE TO FBC 2023

DRAWING NO. AD20-27

Sheet No. D4.1

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I
D4

DETAIL
OPTION

FL #32490.2

December 19th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

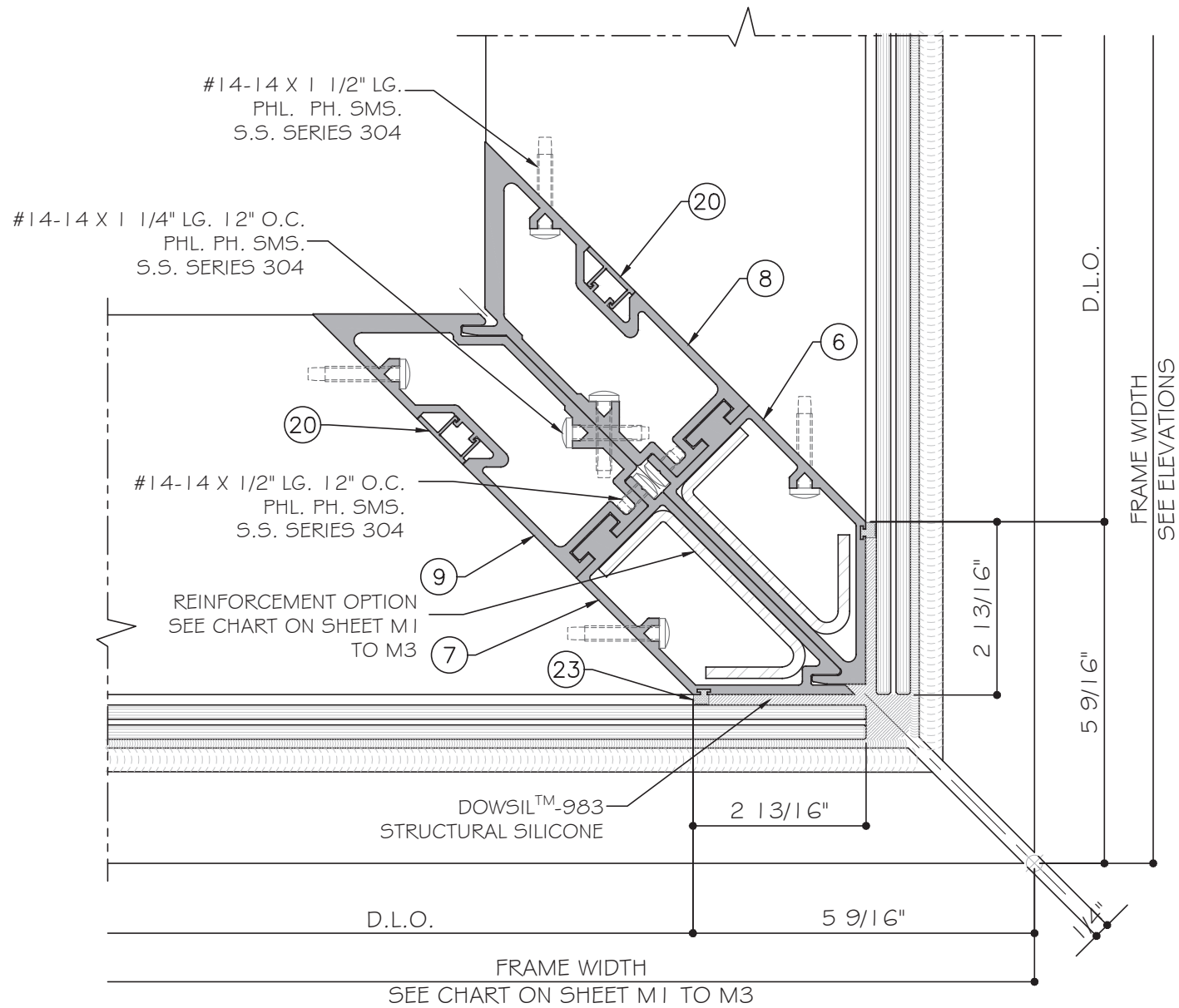
12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL 33027 F: 305.271.0117

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SERIES 3090 WINDOW WALL -SMI

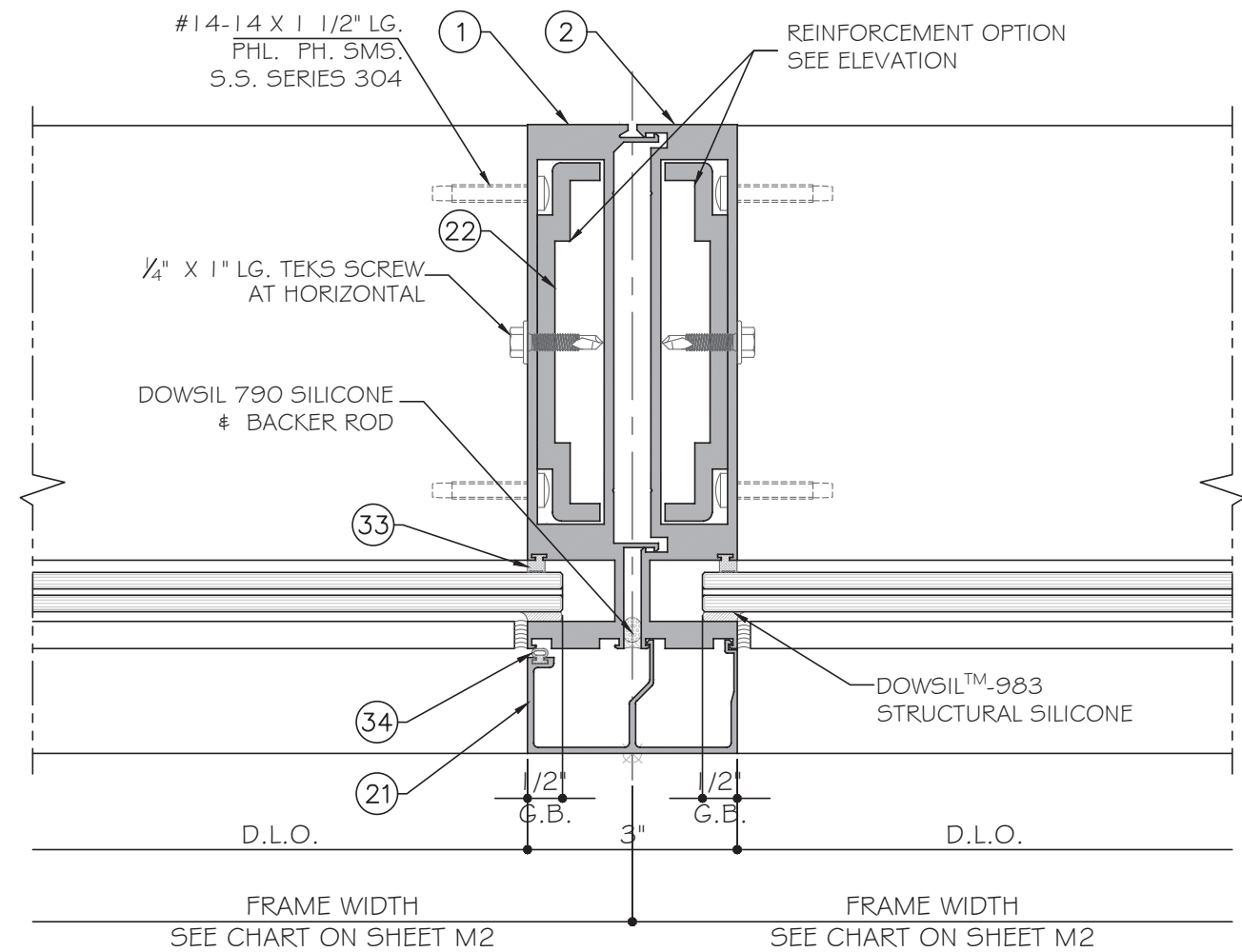
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

Rev. No.	Date	Drawn By	Description
R2	12.09.2023	James	UPDATE TO FBC 2023
Drawn Date 12.19.2023 Scale AS SHOWN			
DRAWING NO. AD20-27			
D4.2			
Sheet No. 14 OF 25			



EXTERIOR

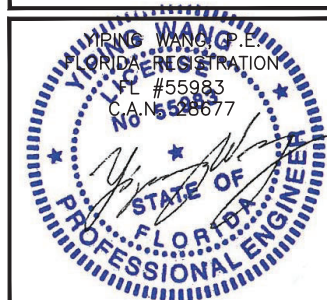
1
D5



2
D5

NOTE:
CORNER MULLION CHECKED WITH EQUAL POSITIVE
LOAD OR EQUAL NEGATIVE LOAD APPLIED ON BOTH
SIDES. CONDITION OTHER THAN ABOVE, TO BE
ENGINEERED SEPARATELY ON JOB BASES.
EQUAL LOAD:
 $B_x \cdot w_{nx} = B_y \cdot w_{ny}$ or $B_x \cdot w_{px} = B_y \cdot w_{py}$
 B_x, B_y - PANEL WIDTH AT X, Y DIRECTION
 w_{nx}, w_{ny} - NEGATIVE WIND LOAD AT AT X, Y DIRECTION
 w_{px}, w_{py} - POSITIVE WIND LOAD AT AT X, Y DIRECTION

FL #32490.2



December 19th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL 33027 F: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SERIES 3090 WINDOW WALL - SMI
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325 WEST 74 PLACE, HIALEAH, FL 33014
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Rev.	Date	Drawn By	Description
R2	12.09.2023	James	UPDATE TO FBC 2023

Drawn Date 12.19.2023 Scale AS SHOWN

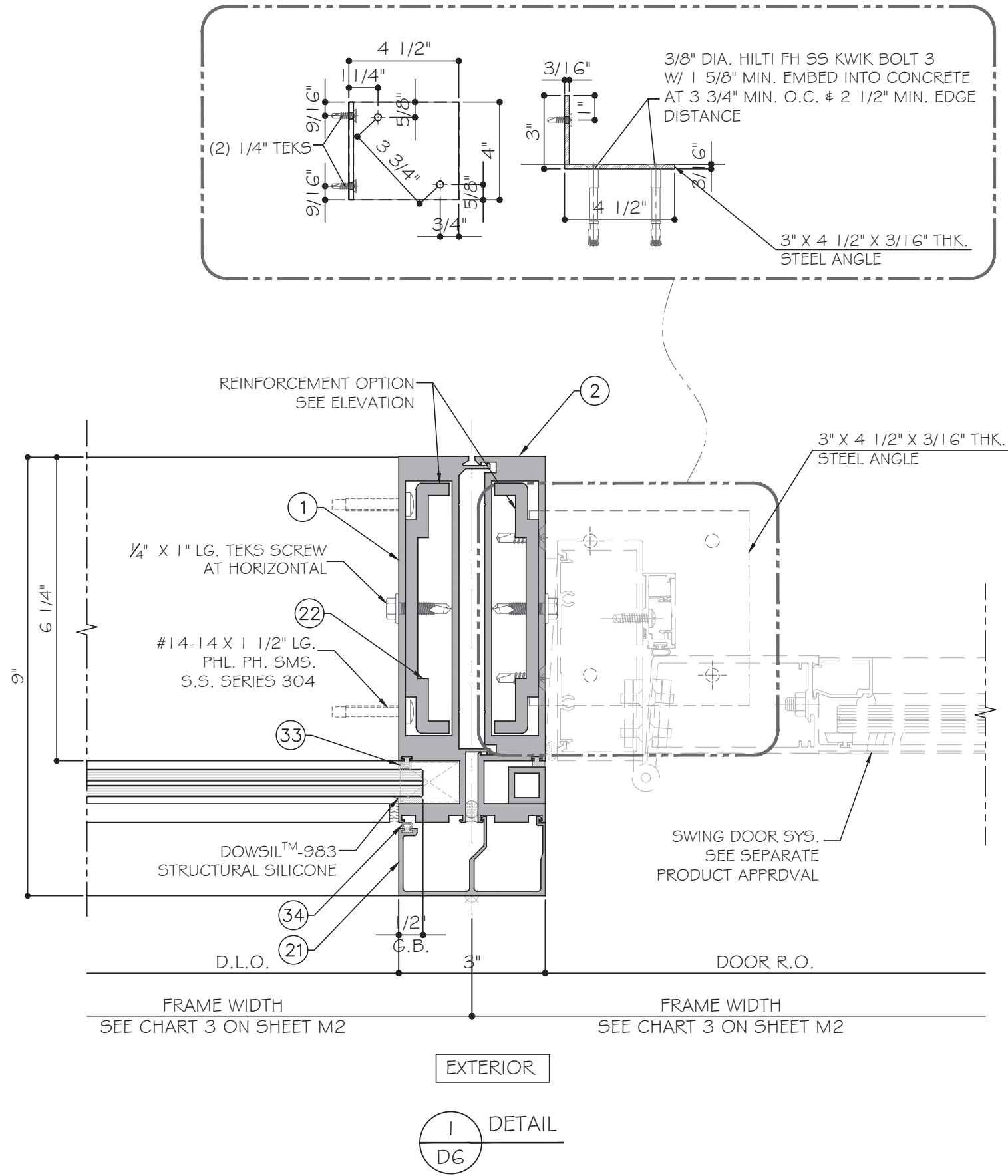
DRAWING NO.

AD20-27

D5

Sheet No.

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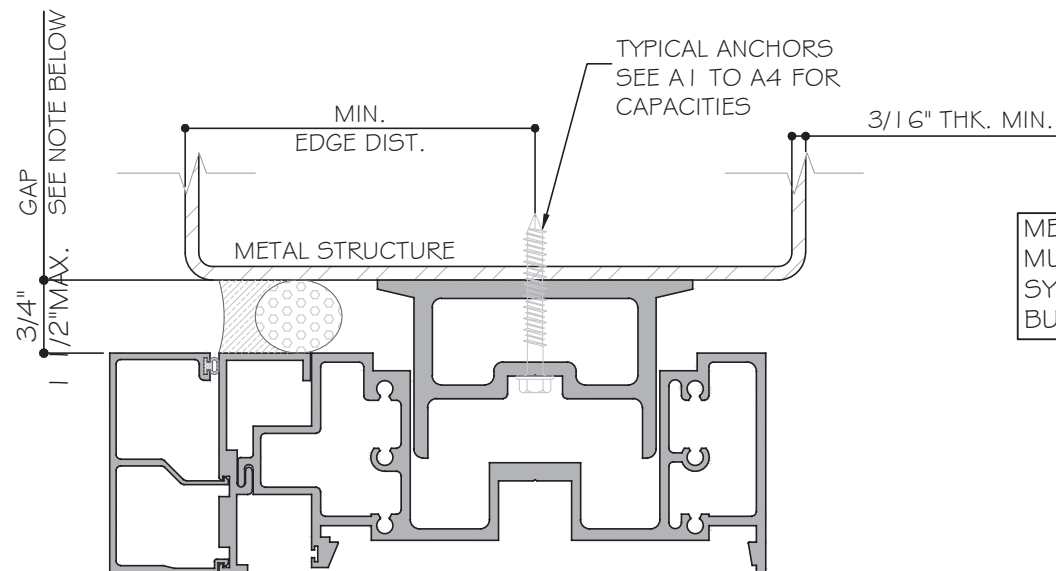
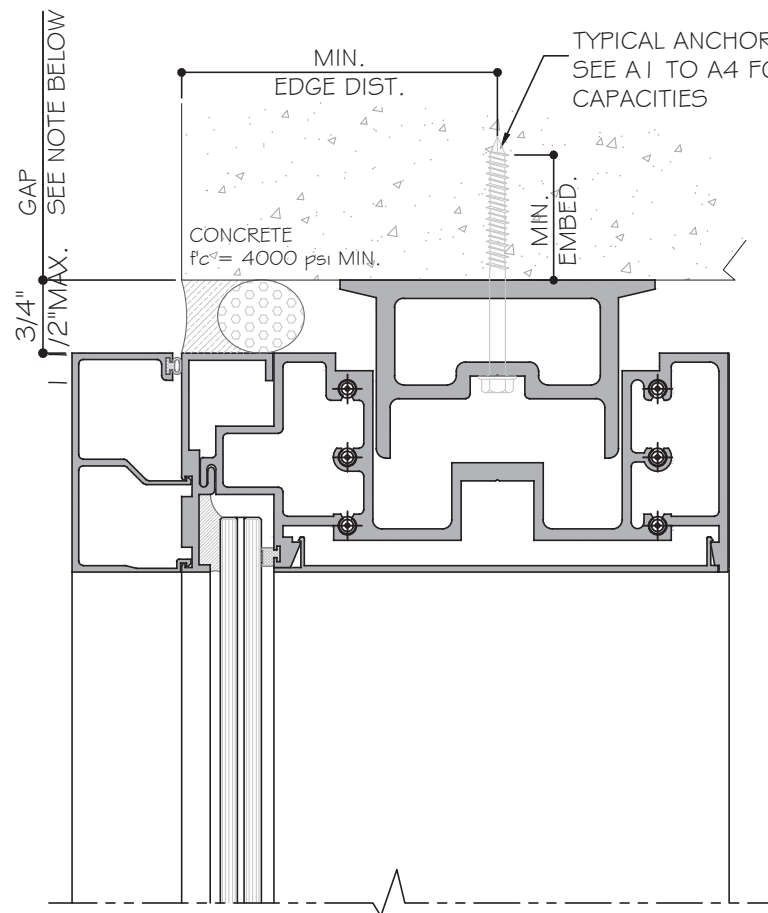


FL #32490.2

YOUNG WANG
Professional Engineer
FL #55983
C.A.N. 559877

December 19th, 2023

MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 P: 786.360.2786 MIRAMAR, FL 33027 F: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com			
SERIES 3090 WINDOW WALL -SMI CONTINENTAL GLASS SYSTEMS, LLC. 325 WEST 74 PLACE, HIALEAH, FL 33014 TEL. (305) 231-1101 FAX. (305) 231-1103			
Drawn Date	Scale	Rev. No.	Description
12.19.2023	AS SHOWN	R2	UPDATE TO FBC 2023
James	Drawn By		
12.09.2023	Date		
DRAWING NO. AD20-27			
Sheet No. D6 16 OF 25			



METAL STRUCTURE BY OTHERS .
MUST SUSTAIN LOADS IMPOSED BY GLAZING
SYSTEM AND TRANSFER THEM TO THE
BUILDING STRUCTURE.

MAX. ANCHOR DESIGN LOAD CAPACITIES
SEE CHART ON SHEET A2 TO A4 BASED
ON GAP BETWEEN FRAME TO SUBSTRATE

NOTE:
APPROVAL ONLY INCLUDED CAPACITIES WITH ANCHOR
SPACING AT 3" OR 5" O.C., ANCHOR SPACING
BETWEEN 3" TO 5" IS ALLOWED AND TO BE CHECKED
BY DESIGNATE ENGINEER ON JOB BASES.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE A: 5/16" "ELCO" ULTRACON (FU=177KSI, FY=155KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED & 3" O.C.

TYPE B: 5/16" "ELCO" ULTRACON (FU=177KSI, FY=155KSI)
DIRECTLY INTO CONCRETE
WITH 1 3/4" MIN. EMBED & 5" O.C.

TYPE C: 5/16" DIA. "ELCO" DRIL-FLEX (GRADE 5 CRS)(FU=120KSI, FY=92KSI)
INTO MIAMI-DADE COUNTY APPROVED MULLION & 3" O.C.
(3)THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN).

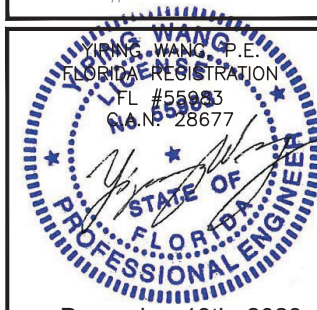
TYPE D: 5/16" DIA. "ELCO" DRIL-FLEX (GRADE 5 CRS)(FU=120KSI, FY=92KSI)
INTO METAL STRUCTURES & 3" O.C.
(3)THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
STEEL:3/16" THK. MIN. (FY = 36 KSI MIN.)

MIN.EDGE DIST:
INTO CONCRETE: 4 5/16" MIN.
INTO METAL STRUCTURE: 2 3/16" MIN

CONCRETE AT HEAD/SILL: f_c = 4000 PSI MIN.

NOTE:
FOR CONDITION WITH LESS EDGE DISTANCE TO BE
CHECKED BY DESIGNATE ENGINEER ON JOB BASE.

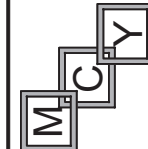
FL #32490.2



December 19th, 2023

SERIES 3090 WINDOW WALL -SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
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Rev. No.	Date	Drawn By	Description
R2	12.09.2023	James	UPDATE TO FBC 2023

Drawn Date
12.19.2023

Scale
AS SHOWN

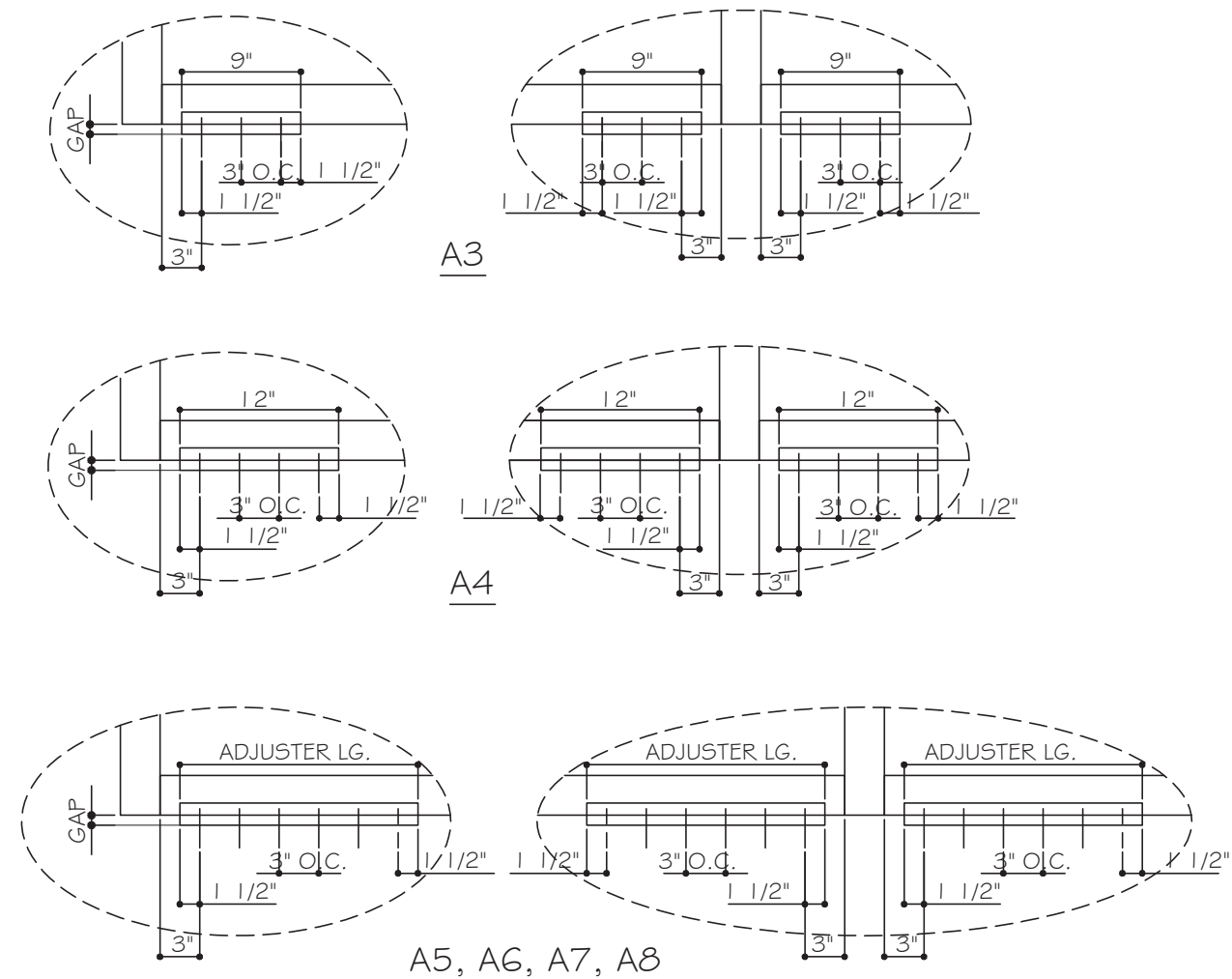
DRAWING NO.
AD20-27

A1

Sheet No.
17 OF 25

CHART 6: HEAD AND SILL ANCHOR DESIGN LOAD CAPACITIES

NOMINAL DIMENSIONS		ANCHOR DESIGN LOAD CAPACITIES (PSF)										
FRAME WIDTH MAX.	FRAME HEIGHT MAX.	A3	A4	A5	A6	A7	A8	A4	A5	A6	A7	A8
		3/4" MAX. GAP						1 1/2" MAX. GAP				
(INCH)	(INCH)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)
36	120	190.0	190.0	190.0	190.0	190.0	190.0	128.0	160.0	190.0	190.0	190.0
42		190.0	190.0	190.0	190.0	190.0	190.0	109.7	137.1	164.6	190.0	190.0
48		176.1	190.0	190.0	190.0	190.0	190.0	96.0	120.0	144.0	168.0	190.0
54		156.5	190.0	190.0	190.0	190.0	190.0	85.3	106.7	128.0	149.3	170.7
60		140.9	187.8	190.0	190.0	190.0	190.0	76.8	96.0	115.2	134.4	153.6
66		128.1	170.8	190.0	190.0	190.0	190.0	69.8	87.3	104.7	122.2	139.6
72		117.4	156.5	190.0	190.0	190.0	190.0	64.0	80.0	96.0	112.0	128.0
78		108.4	144.5	180.6	190.0	190.0	190.0	59.1	73.8	88.6	103.4	118.2
36	132	190.0	190.0	190.0	190.0	190.0	190.0	116.4	145.5	174.5	190.0	190.0
42		183.0	190.0	190.0	190.0	190.0	190.0	99.7	124.7	149.6	174.5	190.0
48		160.1	190.0	190.0	190.0	190.0	190.0	87.3	109.1	130.9	152.7	174.5
54		142.3	189.7	190.0	190.0	190.0	190.0	77.6	97.0	116.4	135.8	155.2
60		128.1	170.8	190.0	190.0	190.0	190.0	69.8	87.3	104.7	122.2	139.6
66		116.4	155.2	190.0	190.0	190.0	190.0	63.5	79.3	95.2	111.1	126.9
72		106.7	142.3	177.9	190.0	190.0	190.0	58.2	72.7	87.3	101.8	116.4
78		98.5	131.4	164.2	190.0	190.0	190.0	53.7	67.1	80.6	94.0	107.4
36	144	190.0	190.0	190.0	190.0	190.0	190.0	106.7	133.3	160.0	186.7	190.0
42		167.7	190.0	190.0	190.0	190.0	190.0	91.4	114.3	137.1	160.0	182.9
48		146.8	190.0	190.0	190.0	190.0	190.0	80.0	100.0	120.0	140.0	160.0
54		130.4	173.9	190.0	190.0	190.0	190.0	71.1	88.9	106.7	124.4	142.2
60		117.4	156.5	190.0	190.0	190.0	190.0	64.0	80.0	96.0	112.0	128.0
66		106.7	142.3	177.9	190.0	190.0	190.0	58.2	72.7	87.3	101.8	116.4
72		97.8	130.4	163.1	190.0	190.0	190.0	53.3	66.7	80.0	93.3	106.7
78		90.3	120.4	150.5	180.6	190.0	190.0	49.2	61.5	73.8	86.2	98.5
36	156	180.6	190.0	190.0	190.0	190.0	190.0	98.5	123.1	147.7	172.3	190.0
42		154.8	190.0	190.0	190.0	190.0	190.0	84.4	105.5	126.6	147.7	168.8
48		135.5	180.6	190.0	190.0	190.0	190.0	73.8	92.3	110.8	129.2	147.7
54		120.4	160.5	190.0	190.0	190.0	190.0	65.6	82.1	98.5	114.9	131.3
60		108.4	144.5	180.6	190.0	190.0	190.0	59.1	73.8	88.6	103.4	118.2
66		98.5	131.4	164.2	190.0	190.0	190.0	53.7	67.1	80.6	94.0	107.4
72		90.3	120.4	150.5	180.6	190.0	190.0	49.2	61.5	73.8	86.2	98.5
78		83.4	111.1	138.9	166.7	190.0	190.0	45.4	56.8	68.2	79.5	90.9
36	160	176.1	190.0	190.0	190.0	190.0	190.0	96.0	120.0	144.0	168.0	190.0
42		150.9	190.0	190.0	190.0	190.0	190.0	82.3	102.9	123.4	144.0	164.6
48		132.1	176.1	190.0	190.0	190.0	190.0	72.0	90.0	108.0	126.0	144.0
54		117.4	156.5	190.0	190.0	190.0	190.0	64.0	80.0	96.0	112.0	128.0
60		105.7	140.9	176.1	190.0	190.0	190.0	57.6	72.0	86.4	100.8	115.2
66		96.1	128.1	160.1	190.0	190.0	190.0	52.4	65.5	78.5	91.6	104.7
72		88.1	117.4	146.8	176.1	190.0	190.0	48.0	60.0	72.0	84.0	96.0
78		81.3	108.4	135.5	162.6	189.6	190.0	44.3	55.4	66.5	77.5	88.6
36	168	167.7	190.0	190.0	190.0	190.0	190.0	91.4	114.3	137.1	160.0	182.9
42		143.8	190.0	190.0	190.0	190.0	190.0	78.4	98.0	117.6	137.1	156.7
48		125.8	167.7	190.0	190.0	190.0	190.0	68.6	85.7	102.9	120.0	137.1
54		111.8	149.1	186.3	190.0	190.0	190.0	61.0	76.2	91.4	106.7	121.9
60		100.6	134.2	167.7	190.0	190.0	190.0	54.9	68.6	82.3	96.0	109.7
66		91.5	122.0	152.5	183.0	190.0	190.0	49.9	62.3	74.8	87.3	99.7
72		83.9	111.8	139.8	167.7	190.0	190.0	45.7	57.1	68.6	80.0	91.4
78		77.4	103.2	129.0	154.8	180.6	190.0	42.2	52.7	63.3	73.8	84.4
36	177.5	158.7	190.0	190.0	190.0	190.0	190.0	86.5	108.2	129.8	151.4	173.1
42		136.1	181.4	190.0	190.0	190.0	190.0	74.2	92.7	111.3	129.8	148.3
48		119.1	158.7	190.0	190.0	190.0	190.0	64.9	81.1	97.4	113.6	129.8
54		105.8	141.1	176.4	190.0	190.0	190.0	57.7	72.1	86.5	101.0	115.4
60		95.2	127.0	158.7	190.0	190.0	190.0	51.9	64.9	77.9	90.9	103.8
66		86.6	115.4	144.3	173.2	190.0	190.0	47.2	59.0	70.8	82.6	94.4
72		79.4	105.8	132.3	158.7	185.2	190.0	43.3	54.1	64.9	75.7	86.5
77 1/2			73.7	98.3	122.9	147.5	172.1	190.0	40.2	50.2	60.3	70.3



ANCHOR TYPE A

A3 - (3) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB

A4 - (4) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB

A5 - (5) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 15"

A6 - (6) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 18"

A7 - (7) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG.=21"

A8 - (8) TYPE "A" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG.=24"

NOTE:

APPROVAL ONLY INCLUDED CAPACITIES WITH ANCHOR SPACING AT 3" OR 5" O.C., ANCHOR SPACING BETWEEN 3" TO 5" IS ALLOWED AND TO BE CHECKED BY DESIGNATE ENGINEER ON JOB BASES.

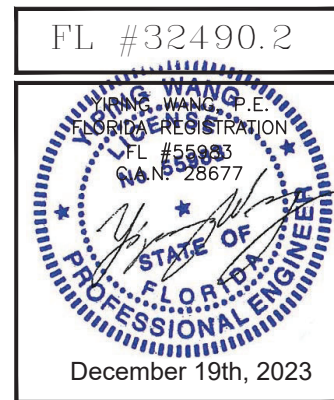
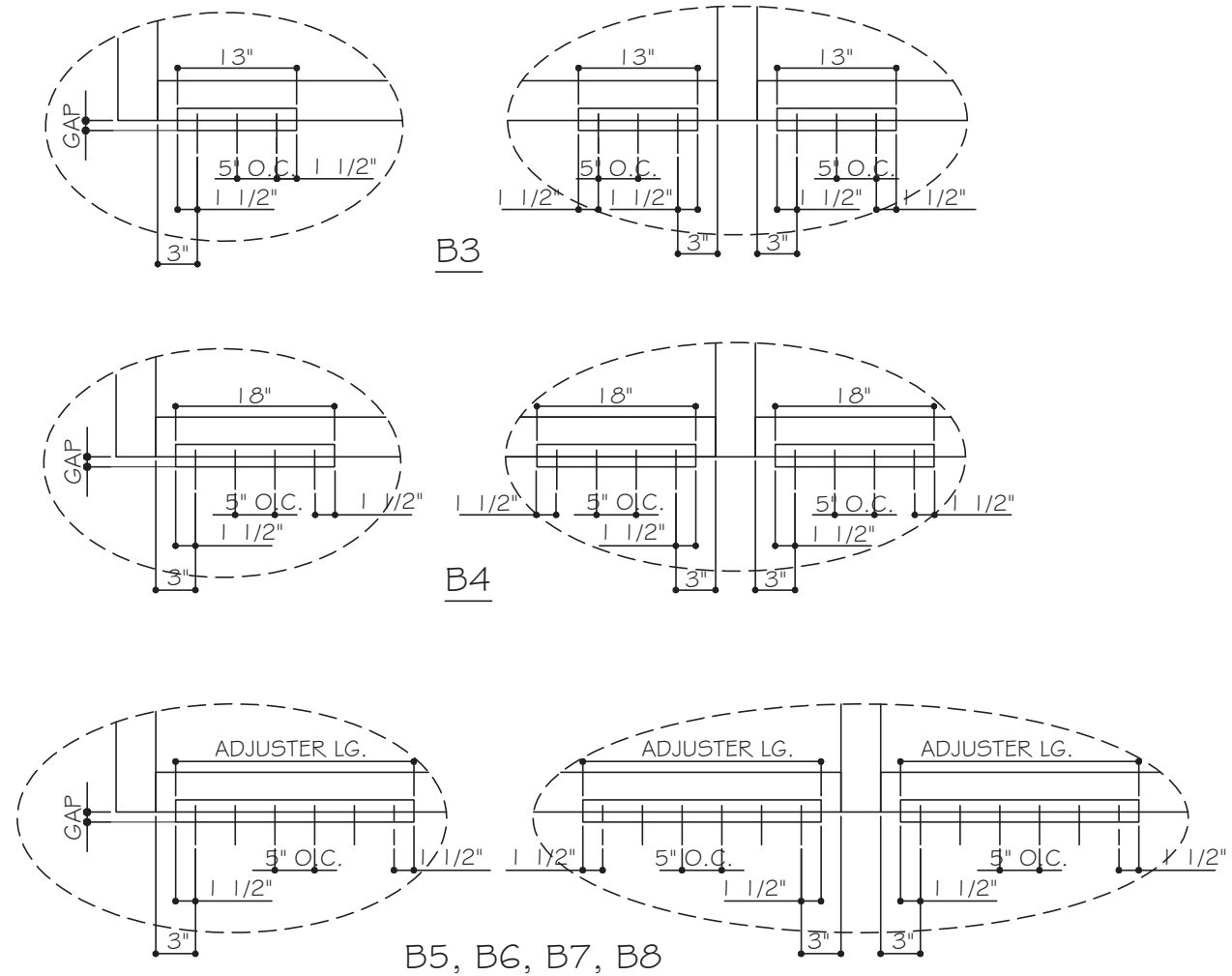


CHART 7: HEAD AND SILL ANCHOR DESIGN LOAD CAPACITIES

NOMINAL DIMENSIONS		ANCHOR DESIGN LOAD CAPACITIES (PSF)								
FRAME WIDTH MAX.	FRAME HEIGHT MAX.	B3	B4	B5	B6	B4	B5	B6	B7	B8
		3/4" MAX. GAP				1 1/2" MAX. GAP				
(INCH)	(INCH)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)	(+ / -)
36	120	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
42		190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
48		190.0	190.0	190.0	190.0	168.0	190.0	190.0	190.0	190.0
54		190.0	190.0	190.0	190.0	149.3	186.7	190.0	190.0	190.0
60		190.0	190.0	190.0	190.0	134.4	168.0	190.0	190.0	190.0
66		180.4	190.0	190.0	190.0	122.2	152.7	183.3	190.0	190.0
72		165.4	190.0	190.0	190.0	112.0	140.0	168.0	190.0	190.0
78		152.7	190.0	190.0	190.0	103.4	129.2	155.1	180.9	190.0
36	132	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
42		190.0	190.0	190.0	190.0	174.5	190.0	190.0	190.0	190.0
48		190.0	190.0	190.0	190.0	152.7	190.0	190.0	190.0	190.0
54		190.0	190.0	190.0	190.0	135.8	169.7	190.0	190.0	190.0
60		180.4	190.0	190.0	190.0	122.2	152.7	183.3	190.0	190.0
66		164.0	190.0	190.0	190.0	111.1	138.8	166.6	190.0	190.0
72		150.4	190.0	190.0	190.0	101.8	127.3	152.7	178.2	190.0
78		138.8	185.1	190.0	190.0	94.0	117.5	141.0	164.5	188.0
36	144	190.0	190.0	190.0	190.0	186.7	190.0	190.0	190.0	190.0
42		190.0	190.0	190.0	190.0	160.0	190.0	190.0	190.0	190.0
48		190.0	190.0	190.0	190.0	140.0	175.0	190.0	190.0	190.0
54		183.8	190.0	190.0	190.0	124.4	155.6	186.7	190.0	190.0
60		165.4	190.0	190.0	190.0	112.0	140.0	168.0	190.0	190.0
66		150.4	190.0	190.0	190.0	101.8	127.3	152.7	178.2	190.0
72		137.8	183.8	190.0	190.0	93.3	116.7	140.0	163.3	186.7
78		127.2	169.6	190.0	190.0	86.2	107.7	129.2	150.8	172.3
36	156	190.0	190.0	190.0	190.0	172.3	190.0	190.0	190.0	190.0
42		190.0	190.0	190.0	190.0	147.7	184.6	190.0	190.0	190.0
48		190.0	190.0	190.0	190.0	129.2	161.5	190.0	190.0	190.0
54		169.6	190.0	190.0	190.0	114.9	143.6	172.3	190.0	190.0
60		152.7	190.0	190.0	190.0	103.4	129.2	155.1	180.9	190.0
66		138.8	185.1	190.0	190.0	94.0	117.5	141.0	164.5	188.0
72		127.2	169.6	190.0	190.0	86.2	107.7	129.2	150.8	172.3
78		117.4	156.6	190.0	190.0	79.5	99.4	119.3	139.2	159.1
36	160	190.0	190.0	190.0	190.0	168.0	190.0	190.0	190.0	190.0
42		190.0	190.0	190.0	190.0	144.0	180.0	190.0	190.0	190.0
48		186.1	190.0	190.0	190.0	126.0	157.5	189.0	190.0	190.0
54		165.4	190.0	190.0	190.0	112.0	140.0	168.0	190.0	190.0
60		148.9	190.0	190.0	190.0	100.8	126.0	151.2	176.4	190.0
66		135.3	180.4	190.0	190.0	91.6	114.5	137.5	160.4	183.3
72		124.1	165.4	190.0	190.0	84.0	105.0	126.0	147.0	168.0
78		114.5	152.7	190.0	190.0	77.5	96.9	116.3	135.7	155.1
36	168	190.0	190.0	190.0	190.0	160.0	190.0	190.0	190.0	190.0
42		190.0	190.0	190.0	190.0	137.1	171.4	190.0	190.0	190.0
48		177.2	190.0	190.0	190.0	120.0	150.0	180.0	190.0	190.0
54		157.5	190.0	190.0	190.0	106.7	133.3	160.0	186.7	190.0
60		141.8	189.0	190.0	190.0	96.0	120.0	144.0	168.0	190.0
66		128.9	171.8	190.0	190.0	87.3	109.1	130.9	152.7	174.5
72		118.1	157.5	190.0	190.0	80.0	100.0	120.0	140.0	160.0
78		109.1	145.4	181.8	190.0	73.8	92.3	110.8	129.2	147.7
36	177.5	190.0	190.0	190.0	190.0	151.4	189.3	190.0	190.0	190.0
42		190.0	190.0	190.0	190.0	129.8	162.3	190.0	190.0	190.0
48		167.7	190.0	190.0	190.0	113.6	142.0	170.4	190.0	190.0
54		149.1	190.0	190.0	190.0	101.0	126.2	151.4	176.7	190.0
60		134.2	178.9	190.0	190.0	90.9	113.6	136.3	159.0	181.7
66		122.0	162.6	190.0	190.0	82.6	103.3	123.9	144.6	165.2
72		111.8	149.1	186.4	190.0	75.7	94.6	113.6	132.5	151.4
77 1/2			103.9	138.5	173.1	190.0	70.3	87.9	105.5	123.1



ANCHOR TYPE B

B3 - (3) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB

B4 - (4) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB

B5 - (5) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG.=23"

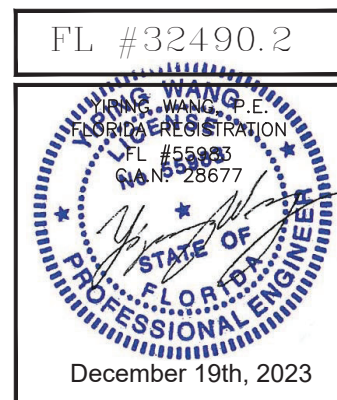
B6 - (6) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG.=28"

B7 - (7) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG.=33"

B8 - (8) TYPE "B" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG.=38"

NOTE:

APPROVAL ONLY INCLUDED CAPACITIES WITH ANCHOR SPACING AT 3" OR 5" O.C., ANCHOR SPACING BETWEEN 3" TO 5" IS ALLOWED AND TO BE CHECKED BY DESIGNATE ENGINEER ON JOB BASES.



MCY ENGINEERING, INC.
GLAZING CONSULTANTS



12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL 33027 F: 305.271.0117

www.MCSEngineering.com mcy@mcysengineering.com

SERIES 3090 WINDOW WALL -SMI

CONTINENTAL GLASS SYSTEMS, LLC.

325 WEST 74 PLACE, HIALEAH, FL 33014

TEL. (305) 231-1101 FAX. (305) 231-1103

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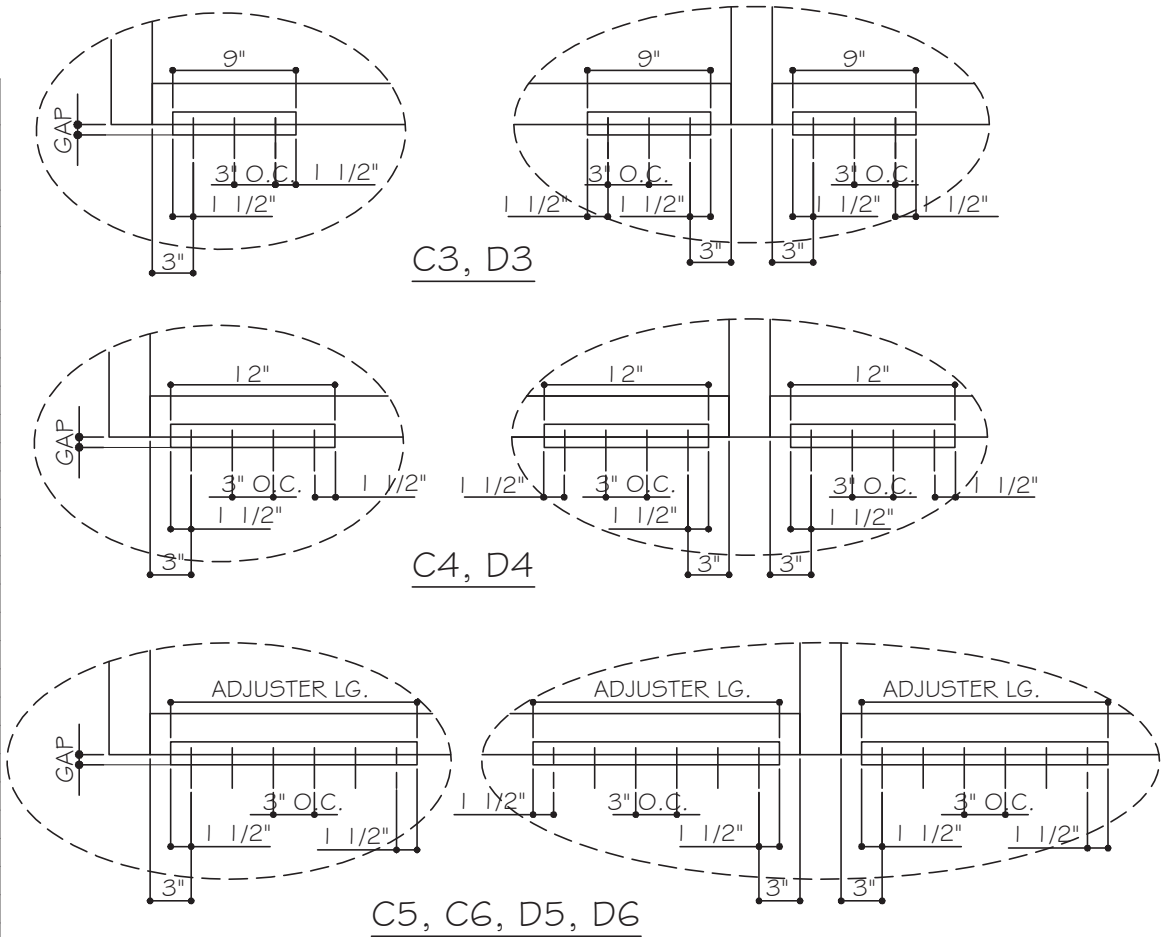
AD20-27

A3

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CHART 8: HEAD AND SILL ANCHOR DESIGN LOAD CAPACITIES

[illegible]

ANCHOR TYPE C & D

C3 - (3) TYPE "C" ANCHORS AT EACH SIDE OF MULLION OR JAMB

C4 - (4) TYPE "C" ANCHORS AT EACH SIDE OF MULLION OR JAMB

D3 - (3) TYPE "D" ANCHORS AT EACH SIDE OF MULLION OR JAMB

D4 - (4) TYPE "D" ANCHORS AT EACH SIDE OF MULLION OR JAMB

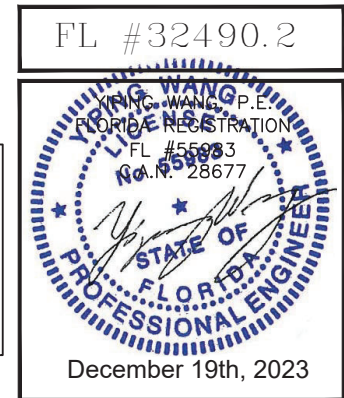
C5 - (5) TYPE "C" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 15"

C6 - (6) TYPE "C" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 18"

D5 - (5) TYPE "D" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 15"

D6 - (6) TYPE "D" ANCHORS AT EACH SIDE OF MULLION OR JAMB
ANCHOR CHANNEL LG. = 18"

NOTE:
APPROVAL ONLY INCLUDED CAPACITIES WITH ANCHOR SPACING AT 3" OR 5" O.C., ANCHOR SPACING BETWEEN 3" TO 5" IS ALLOWED AND TO BE CHECKED BY DESIGNATE ENGINEER ON JOB BASES.



1.874"

7.500"

0.140"

1.375"

① MALE MULLION
3900-01 6005-T5

1.438"

7.500"

0.140"

1.375"

② FEMALE MULLION
3900-02 6005-T5

3.374"

7.500"

0.140"

2.875"

③ MALE MULLION
3900-03 6005-T5

7.500"

0.140"

2.875"

8.303"

④ FEMALE MULLION
3900-04 6005-T5

2.938"

0.140"

7.500"

2.938"

⑤ JAMB
3900-05 6005-T5

2.938"

7.500"

0.140"

0.803"

2.938"

⑥ JAMB
3900-06 6005-T5

3.001"

7.500"

0.140"

3.001"

⑦ JAMB
3900-07 6005-T5

4.188"

7.500"

0.140"

4.125"

⑧ MALE MULLION
3900-08 6005-T5

4.188"

7.500"

0.140"

4.125"

0.803"

⑨ FEMALE MULLION
3900-09 6005-T5

2.000"

5.134"

0.140"

2.700"

2.658"

⑩ 90° FRONT MALE MULLION
3900-10 6005-T5

2.000"

2.700"

0.140"

5.130"

2.652"

⑪ 90° FRONT FEMALE MULLION
3900-11 6005-T5

1.938"

0.140"

6.107"

2.000"

⑫ 90° BACK MALE MULLION
3900-12 6005-T5

1.938"

6.107"

0.140"

4.179"

⑬ 90° BACK FEMALE MULLION
3900-13 6005-T5

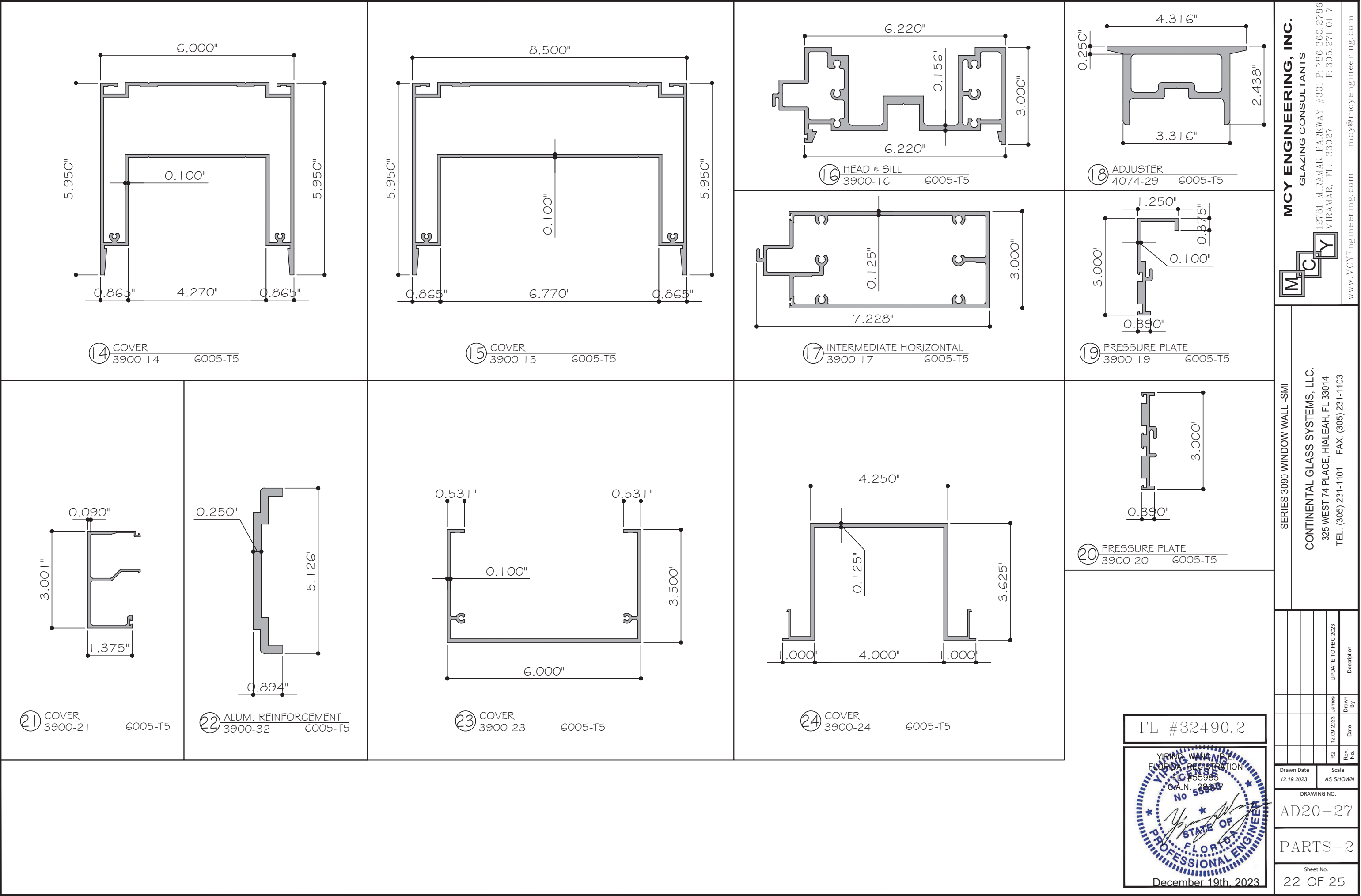
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GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL 33027 F: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SERIES 3090 WINDOW WALL -SMI

CONTINENTAL GLASS SYSTEMS, LLC.
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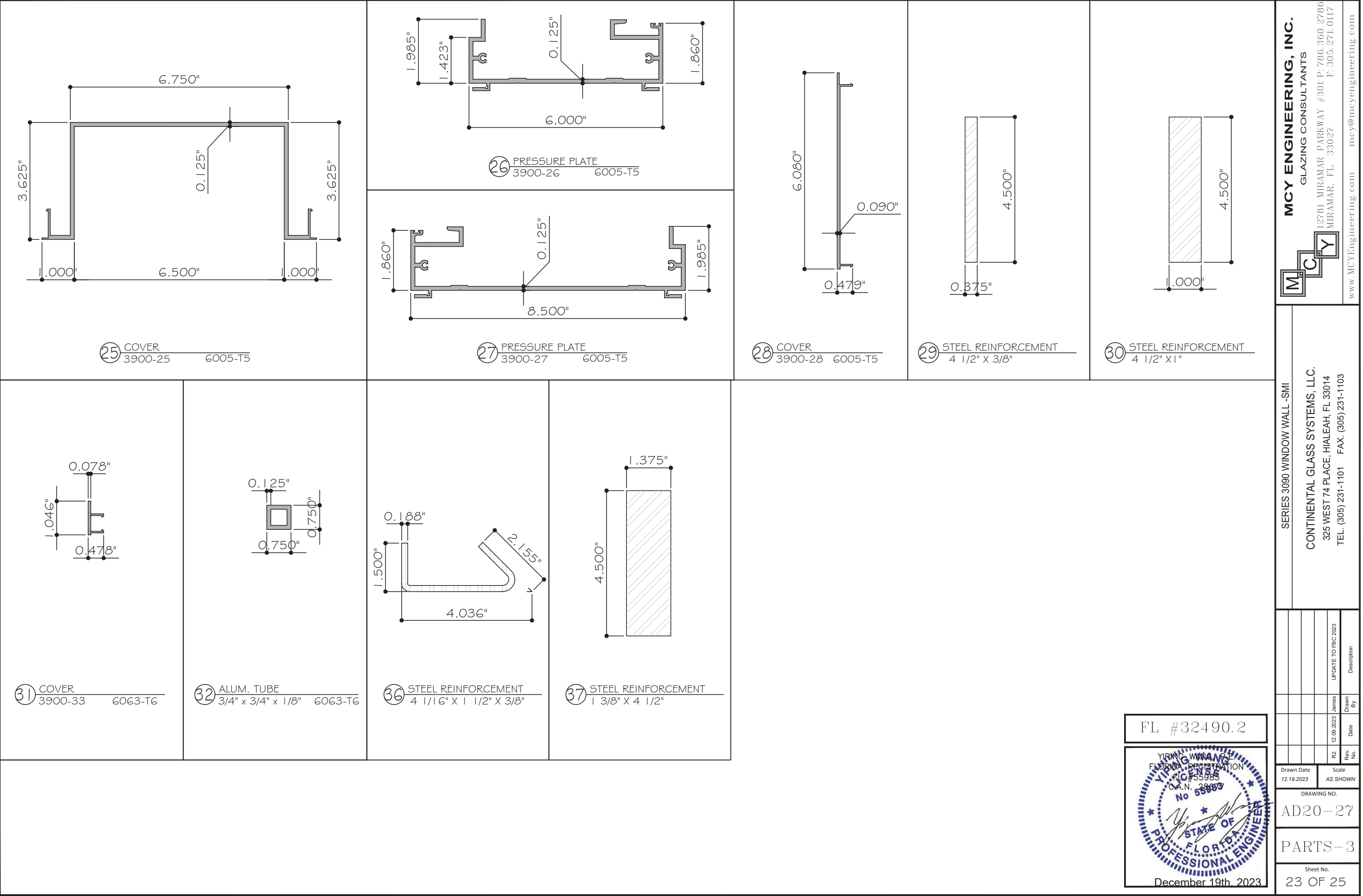
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TEL. (305) 231-1101 FAX. (305) 231-1103

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R2	12.09.2023	James	UPDATE TO FBC 2023
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Sheet No.			
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FL #32490.2

YIM C. WANG, P.E.
FLORIDA REGISTRATION
#55983
C.A.N. 28673
No 55983

December 19th, 2023

Rev. No.	Date	Drawn By	Description
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Drawn Date	12.19.2023	Scale	AS SHOWN
DRAWING NO.			
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PARTS-3			
Sheet No.			
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TOP & BOTTOM CORNERS
JAMB

#14-14 X 1 1/2" LG.
PHL. PH. SMS.
S.S. SERIES 304

HORIZONTAL CORNERS
JAMB

FOR Pd ≤ 160psf
USE #14-14 X 1 1/2" LG. PHL.
PH. SMS. S.S. SERIES 304
FOR Pd > 160psf
USE 1/4"-14 X 1 1/2" LG. TEKS
GRADE 5 SCREW

FOR Pd ≤ 160psf
USE #14-14 X 1 1/2" LG. PHL.
PH. SMS. S.S. SERIES 304
FOR Pd > 160psf
USE 1/4"-14 X 1 1/2" LG. TEKS
GRADE 5 SCREW

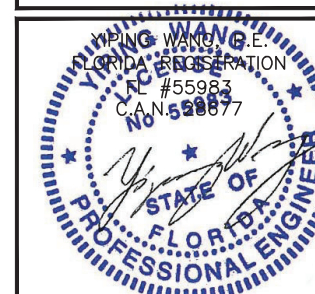
#14-14 X 1 1/2" LG.
PHL. PH. SMS.
S.S. SERIES 304

HORIZONTAL CORNERS
MULLION

TOP & BOTTOM CORNERS
MULLION

#14-14 X 1 1/2" LG.
PHL. PH. SMS.
S.S. SERIES 304

FL #32490.2



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GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL 33027 F: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

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SERIES 3090 WINDOW WALL -SMI
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE, HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

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