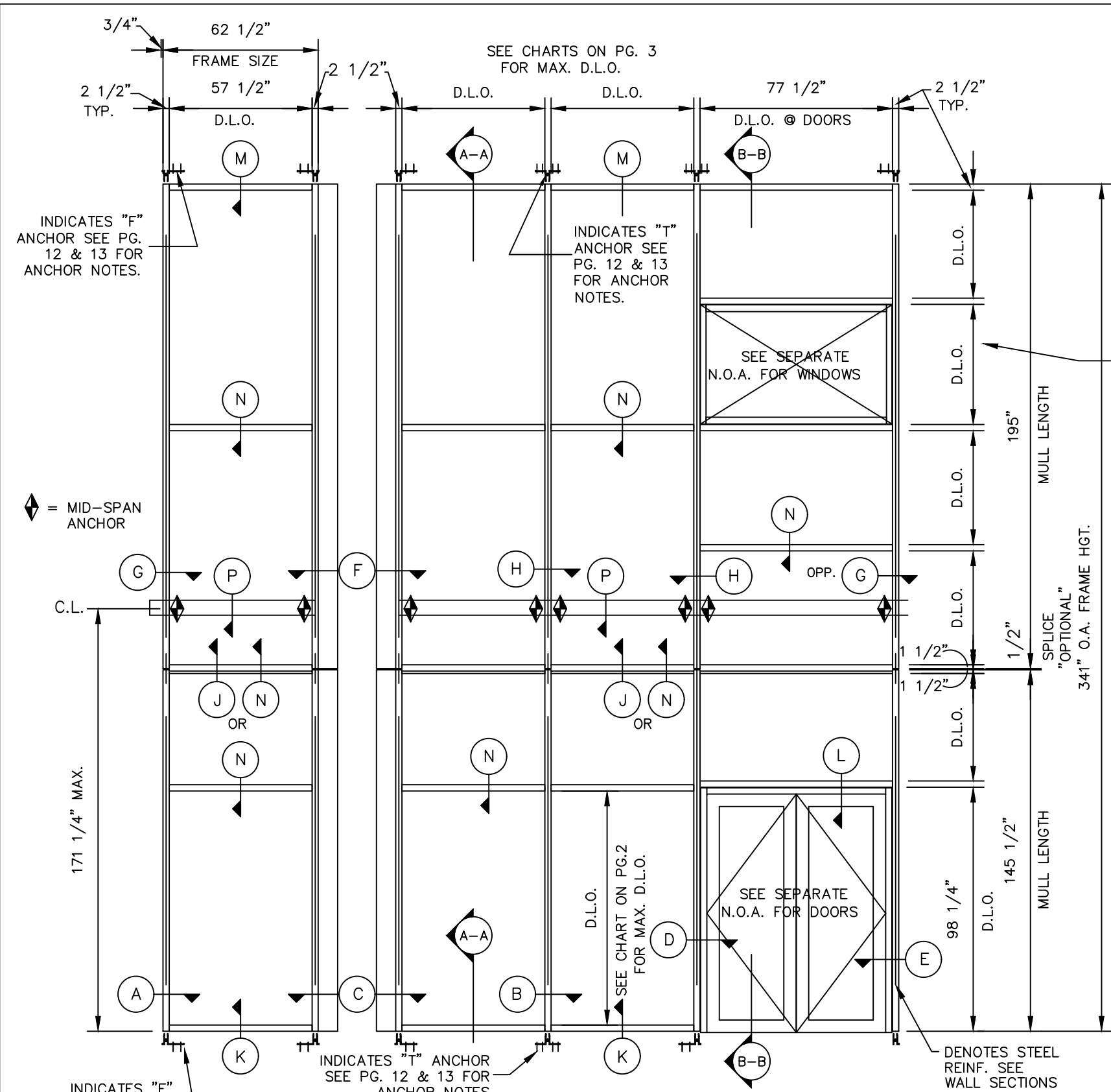
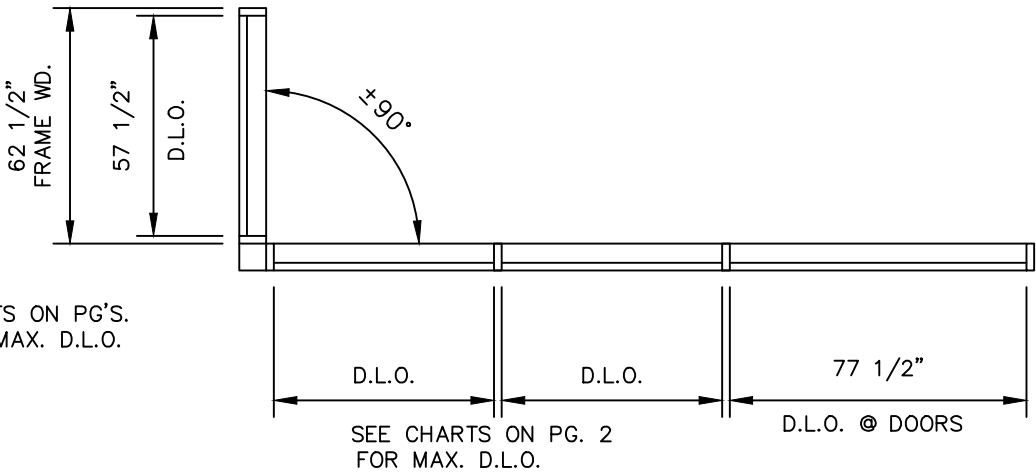




**TCW-250TS SERIES WINDOW WALL SYSTEM
W/ REINFORCED MULLIONS
LARGE MISSILE IMPACT**



FLOOR PLAN

INSTRUCTIONS:

- STEP 1- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, AND WIND ZONE USING APPLICABLE STANDARDS FROM ASCE 7.
- STEP 2- USE CHARTS ON PAGE 3 TO DETERMINE DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND TYPE.
- STEP 3- USE CHARTS ON SHEET 4 TO DETERMINE ALLOWABLE DESIGN PRESSURE BASED ON GIVEN MULLION LENGTH AND ANCHOR SPACING. (THE MAXIMUM ALLOWABLE DESIGN PRESSURE SHOULD BE EQUAL TO OR GREATER THAN THE DESIGN PRESSURE DETERMINED FOR THE OPENING).
- STEP 4- USE DETAILS AND CHARTS ON SHEETS 12 AND 13 TO DETERMINE ANCHOR OPTIONS BASED ON SUBSTRATE AND LOADING

NOTES:

- 1.) THIS PRODUCT IS DESIGNED TO COMPLY WITH THE FLORIDA BUILDING CODE, BUILDING, 7TH EDITION (2020) INCLUDING THE HIGH VELOCITY HURRICANE ZONE
- 2.) ALUMINUM WINDOW WALL SYSTEM IS TESTED FOR LARGE MISSILE IMPACT. HURRICANE SHUTTERS ARE NOT REQUIRED.
- 3.) THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPROVED ENTRANCE DOORS AND OR WINDOWS.
- 4.) CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
- 5.) WOOD BUCKS MUST BE ENGINEERED SEPARATELY BY THE ENGINEER OF RECORD AND SHALL BE ANCHORED TO THE STRUCTURE PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- 6.) ALL ANCHORS SHALL BE AS LISTED IN ANCHOR NOTES & CHARTS AND SHALL BE LOCATED AS DETAILED HEREIN.
- 7.) ANCHOR EMBEDMENT INTO BASE MATERIAL (SUBSTRATE) SHALL BE THROUGH WALL DRESSING, WOOD BUCKS AND OR STUCCO.
- 8.) ALL STEEL IN CONTACT WITH ALUMINUM OR CONC. SHALL BE PAINTED WITH ASPHALTIC/BITUMINOUS COATING OR SEPERATED.

TYPICAL ELEVATIONS

PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 1 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020

ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901

SEAL
WILLIAM D. COOK
LICENSE
No. 43904
STATE OF FLORIDA
PROFESSIONAL ENGINEER

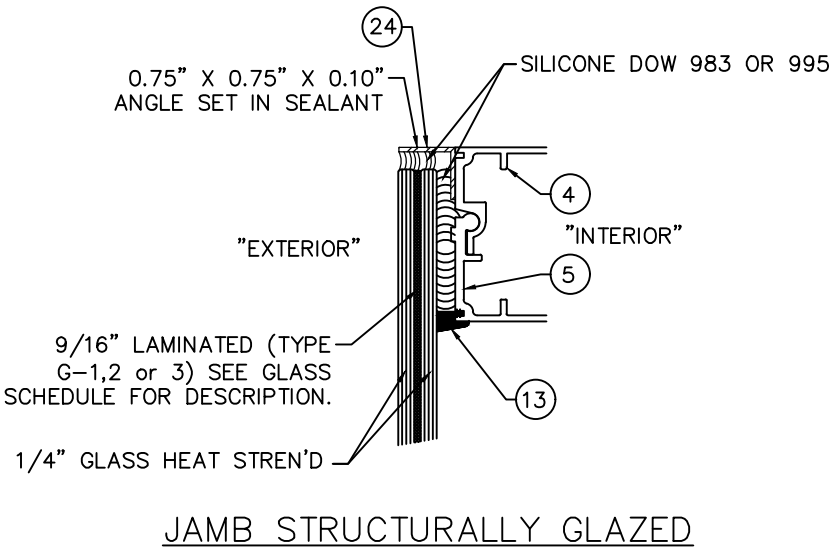
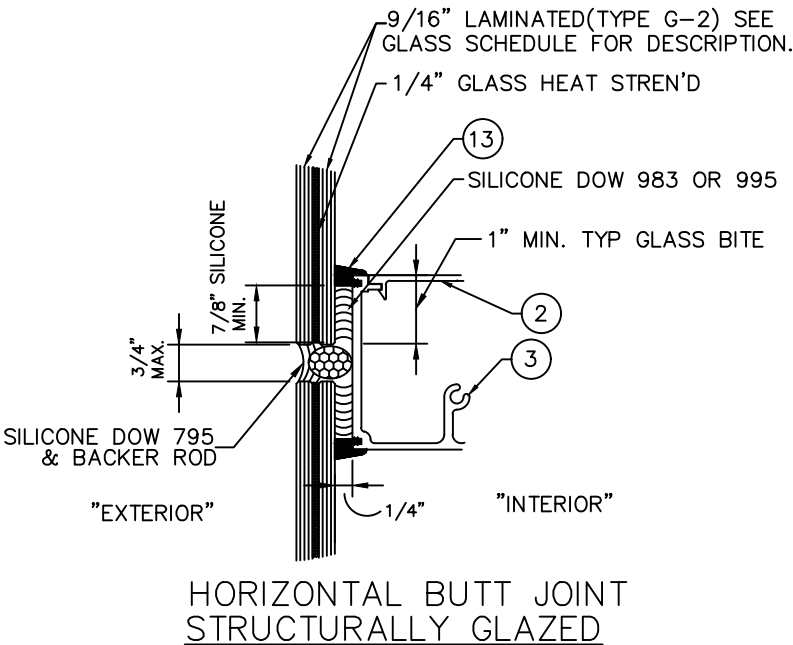
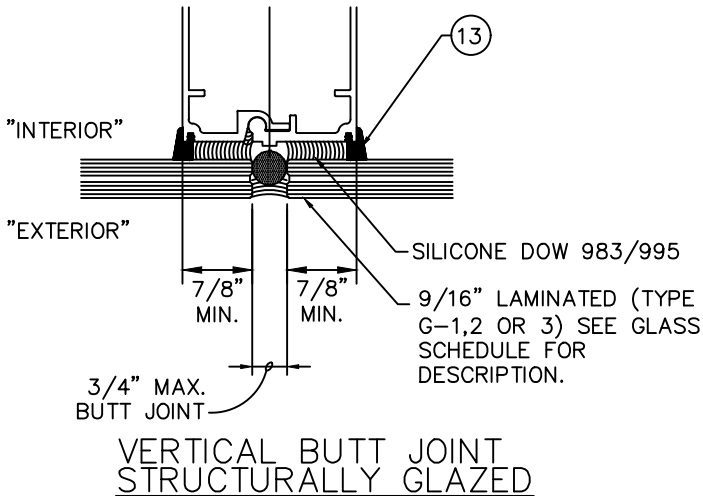
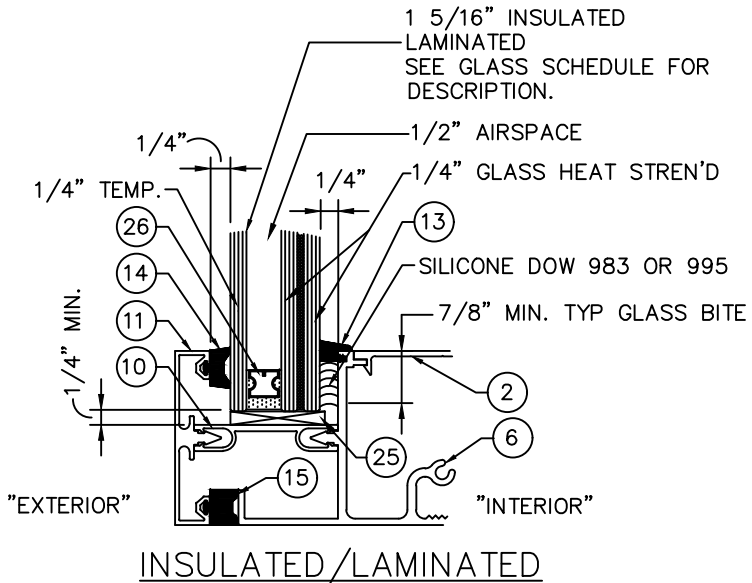
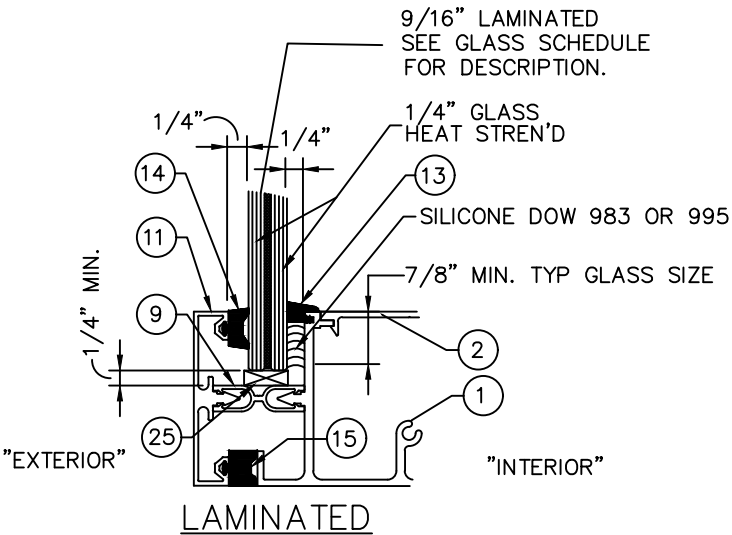
BROMLEY-COOK ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634

GLASS SCHEDULE (L.M.I.)

TYPE	NOMINAL THCKNSS	DESCRIPTION		MISSILE TYPE
G-1	9/16"	LAMINATED SAFLEX HP BY EASTMAN CHEMICAL COMPANY GLASS (VISION OR SPANDREL)	1/4" HS OUTBOARD 0.100" SAFLEX HP BY EASTMAN CHEMICAL COMPANY (INTERLAYER) 1/4" HS INBOARD	LARGE
G-2	9/16"	LAMINATED SAFLEX CP BY EASTMAN CHEMICAL COMPANY	1/4" HS OUTBOARD 0.075" SAFLEX CP - SAFLEX COMPOSITE GLASS INTERLAYER WITH PET CORE BY EASTMAN CHEMICAL COMPANY (INTERLAYER) 1/4" HS INBOARD	LARGE
G-3	9/16"	LAMINATED SENTRYGLAS BY DUPONT	1/4" HS OUTBOARD 0.090" SENTRYGLAS BY DUPONT (INTERLAYER) 1/4" HS INBOARD	LARGE
G-4	1 5/16"	INSULATED LAMINATED SAFLEX HP BY EASTMAN CHEMICAL COMPANY (VISION OR SPANDREL)	1/4" TEMP. OUTBOARD / 1/2" AIRSPACE 1/4" HS/0.100" SAFLEX HP BY EASTMAN CHEMICAL COMPANY (INTERLAYER) 1/4" HS INBOARD	LARGE

OPTIONAL: 6mm THK. COMPOSITE ALUMINUM PANEL IN LIEU OF GLAZING.
(COMPOSITION: 030" ALUM. SHEET - 3/16" PLYWOOD - .030" ALUM. SHEET)

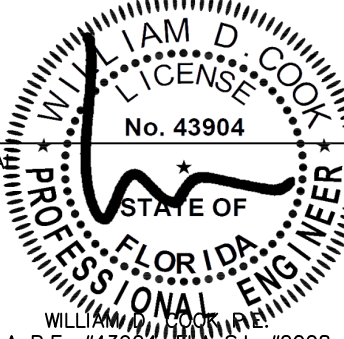
GLAZING DETAILS



PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 2 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020



ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901



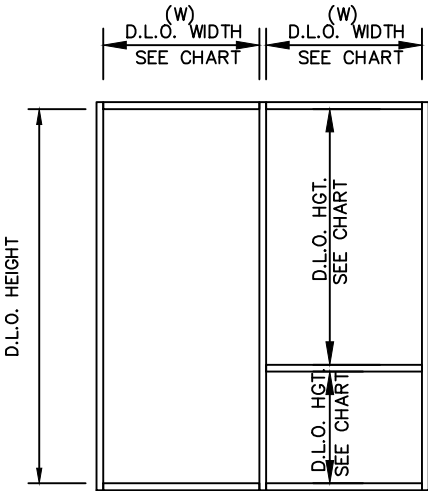
WILLIAM D. COOK
LICENSE No. 43904
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM D. COOK P.E.
FLA P.E. #43904, FLA S.I. #2008

BROMLEY-COOK ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634

GLASS LOAD CAPACITY (L.M.I.) – P.S.F.							
NOMINAL DIM'S.		LAMINATED GLASS GLASS TYPE: G1, G3		LAMINATED GLASS (STRUCTURALLY GLAZED) GLASS TYPE: G2		LAMINATED-INSULATED GLASS TYPE: G4	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)
42"	81"	80	110	80	102	80	110
45"		80	110	80	102		
48"		80	110	80	102		
51"		80	110	80	102		
54"		80	110	80	102		
57"		80	110	80	102		
60"		80	110	80	100		
63"		80	109	80	98		
66"		80	107	80	95		
42"	84"	80	110	80	102		
45"		80	110	80	102		
48"		80	110	80	102		
51"		80	110	80	102		
54"		80	110	80	102		
57"		80	107	80	102		
60"		80	105	80	100		
64"		80	102	80	96		
42"	87"	80	110	80	102		
45"		80	110	80	102		
48"		80	110	80	102		
51"		80	110	80	102		
54"		80	105	80	102		
57"		80	102	80	102		
60"		80	99	80	100		
62"		80	98	80	98		
39"	90"	80	110	80	102		
42"		80	110	80	102		
45"		80	110	80	102		
48"		80	107	80	102		
51"		80	103	80	102		
54"		80	100	80	102		
57"		80	97	80	102		
60"		80	94	80	100		
36"	93"	80	110	80	102		
39"		80	110	80	102		
42"		80	110	80	102		
45"		80	107	80	102		
48"		80	102	80	102		
51"		80	98	80	102		
54"		80	95	80	102		
58"		80	91	80	102		

NOTE: GLASS CHECK BASED ON TESTING AND ASTM E1300-09

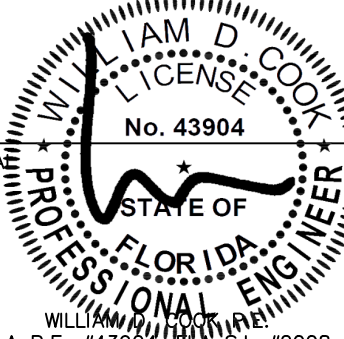
GLASS LOAD CAPACITY (L.M.I.) – P.S.F.							
NOMINAL DIM'S.		LAMINATED GLASS GLASS TYPE: G1, G3		LAMINATED GLASS (STRUCTURALLY GLAZED) GLASS TYPE: G2		LAMINATED-INSULATED GLASS TYPE: G4	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)
39"	95"	80	110	80	102	80	110
42"		80	109	80	102		
45"		80	104	80	102		
48"		80	99	80	102		
51"		80	96	80	102		
54"		80	92	80	102		
56"		80	90	80	102		
36"		80	110	80	102		
39"	99"	80	109	80	102		
42"		80	103	80	102		
45"		80	98	80	102		
48"		80	94	80	102		
51"		80	90	80	102		
54"		80	90	80	102		
36"		80	110	80	102		
39"		80	105	80	102		
42"	102"	80	100	80	102		
45"		80	95	80	102		
48"		80	90	80	102		
51"		80	90	80	102		
53"		80	90	80	102		
36"		80	108	80	102		
39"		80	102	80	102		
42"		80	96	80	102		
45"	105"	80	91	80	102		
48"		80	90	80	102		
51"		80	90	80	102		
36"		80	105	80	102		
39"		80	98	80	102		
42"		80	93	80	102		
45"		80	90	80	102		
48"		80	90	80	102		
50"	108"	80	90	80	102		
36"		80	101	80	102		
39"		80	95	80	102		
42"		80	90	80	102		
45"		80	90	80	102		
48"		80	90	80	102		
36"		80	98	80	102		
39"		80	92	80	102		
42"	111"	80	90	80	102		
45"		80	90	80	102		
48"		80	90	80	102		
36"		80	98	80	102		
39"		80	92	80	102		
42"		80	90	80	102		
45"		80	90	80	102		
47"		80	90	80	102		



PROJECT NAME: TCW-250TS LMI (W/REINFORCING)	
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.
SCALE: N.T.S.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 3 OF 15.0	DATE: 10/27/2020

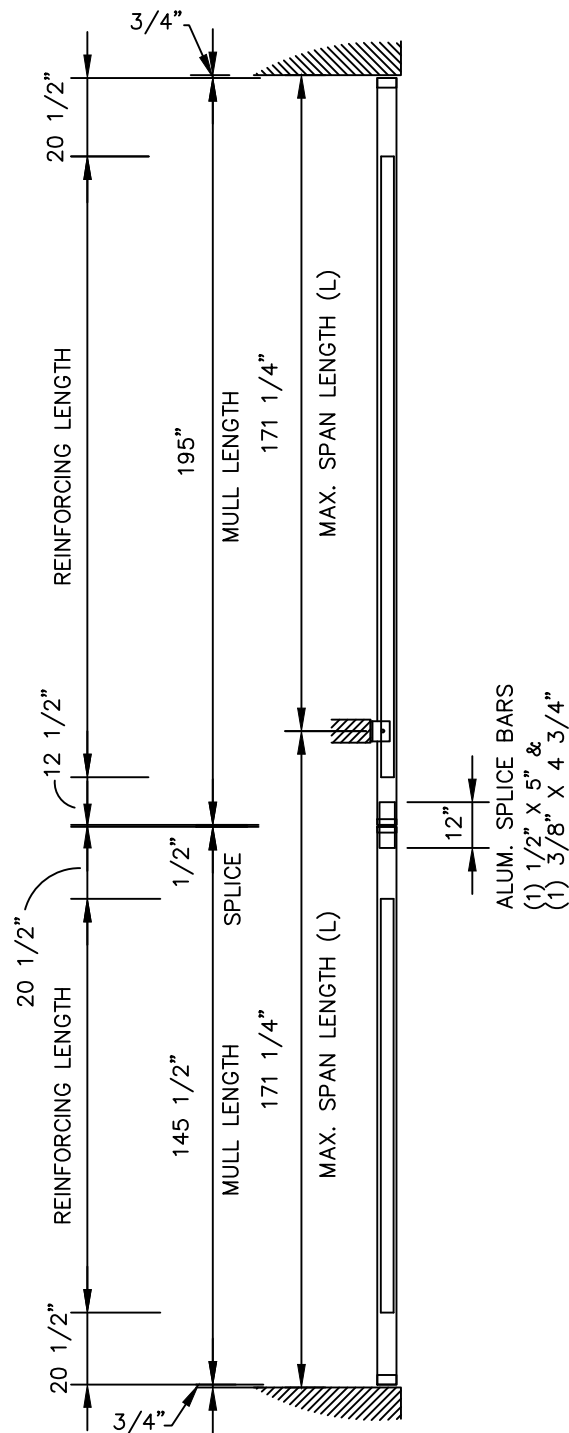


ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901



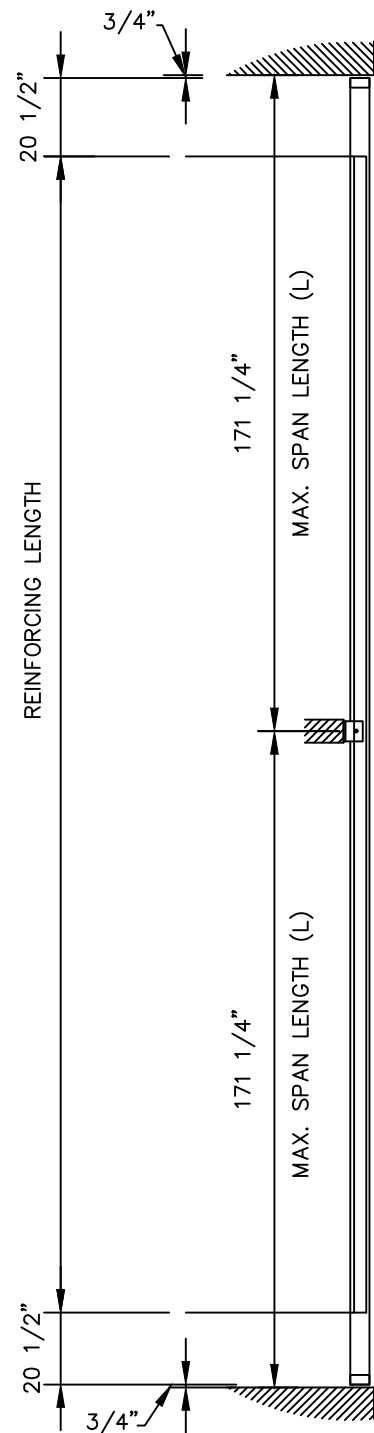
WILLIAM D. COOK
LICENSE NO. 43904
STATE OF FLORIDA
PROFESSIONAL ENGINEER

**BROMLEY-COOK
ENGINEERING, INC.**
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634



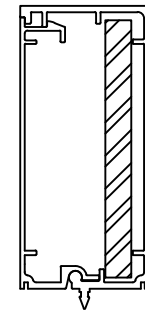
SECTION "A-A"

STACKED MULLION
W/ SPLICE



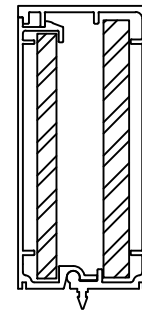
SECTION "B-B"

TWIN SPAN MULLION
NO SPLICE



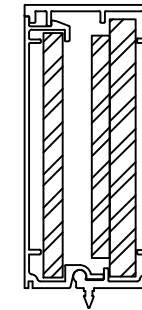
JAMB MULLION
TGF-201/202

REINFORCING: 1/2" X 5"
STEEL BAR (A36)
ALUMINUM: I_{xx} = 9.33 in⁴
S_{xx} = 3.39 in³
STEEL: I_{xx} = 5.21 in⁴
(NOT CONVERTED) S_{xx} = 2.08 in³



MULLION
TGF-201/202

REINFORCING: 1/2" X 5" &
3/8" X 4 3/4"
STEEL BAR (A36)
ALUMINUM: I_{xx} = 9.33 in⁴
S_{xx} = 3.39 in³
STEEL: I_{xx} = 8.56 in⁴
(NOT CONVERTED) S_{xx} = 3.49 in³



MULLION
TGF-201/202

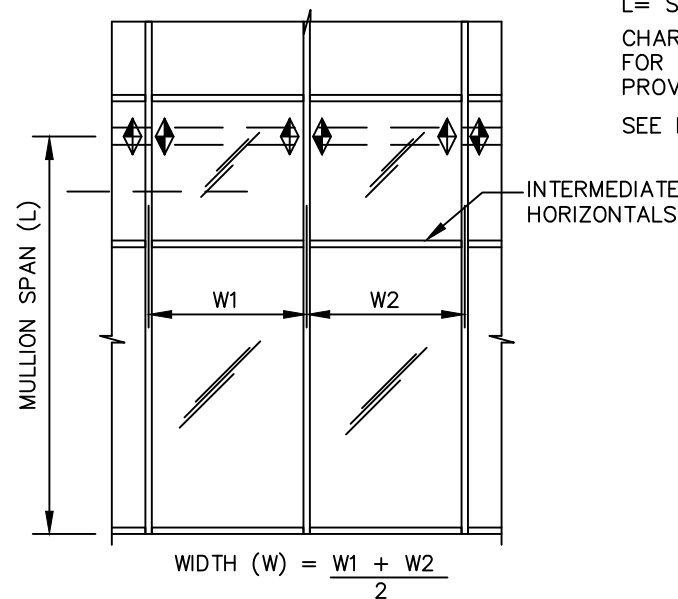
REINFORCING: 1/2" X 5" W/
1/4 X 3 1/2" (WELDED)
& 3/8" X 4 3/4"
STEEL BAR (A36)
ALUMINUM: I_{xx} = 9.33 in⁴
S_{xx} = 3.39 in³
STEEL: I_{xx} = 9.45 in⁴
(NOT CONVERTED) S_{xx} = 4.00 in³

JAMB & MULLION LOAD CAPACITY - P.S.F. (REINFORCED MULLIONS)													
NOMINAL DIM'S.		1 TWIN SPAN JAMB		1 STACKED JAMB		2 TWIN SPAN MULLION		2 STACKED MULLION		3 TWIN SPAN MULLION		3 STACKED MULLION	
WIDTH (W)	MULLION SPAN (L)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)
48"	171 1/4" MAX.	80	95	80	95	80	91.5	80	95	80	95	80	95
54"						80	81.5	80	95	80	87.5		
60"						73.5	73.5	80	95	79	79		
62"						70.5	70.5	80	92	76	76		
68"		80	93			64.5	64.5	80	84	69.5	69.5		
74"		80	85			59	59	77	77	67	67		90
80"		79.5	79.5	80	95	55	55	71.5	71.5	62	62	80	85

L= SPAN BETWEEN SUPPORTS/ANCHOR POINTS

CHART DATA IS BASED ON MAXIMUM TESTED LENGTH.
FOR SHORTER SPANS, ENGINEERED CALCULATIONS SHALL BE
PROVIDED ON A JOB SPECIFIC BASIS.

SEE PAGE 12 & 13 FOR ANCHOR TYPES & OPTIONS.



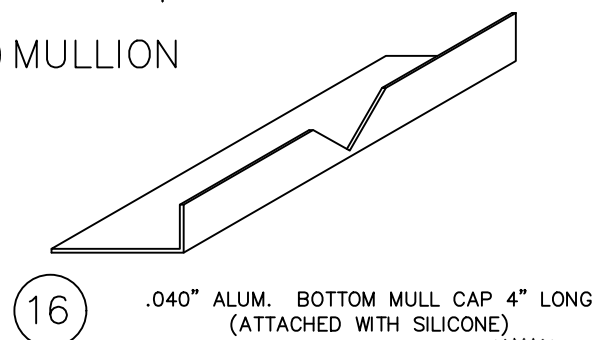
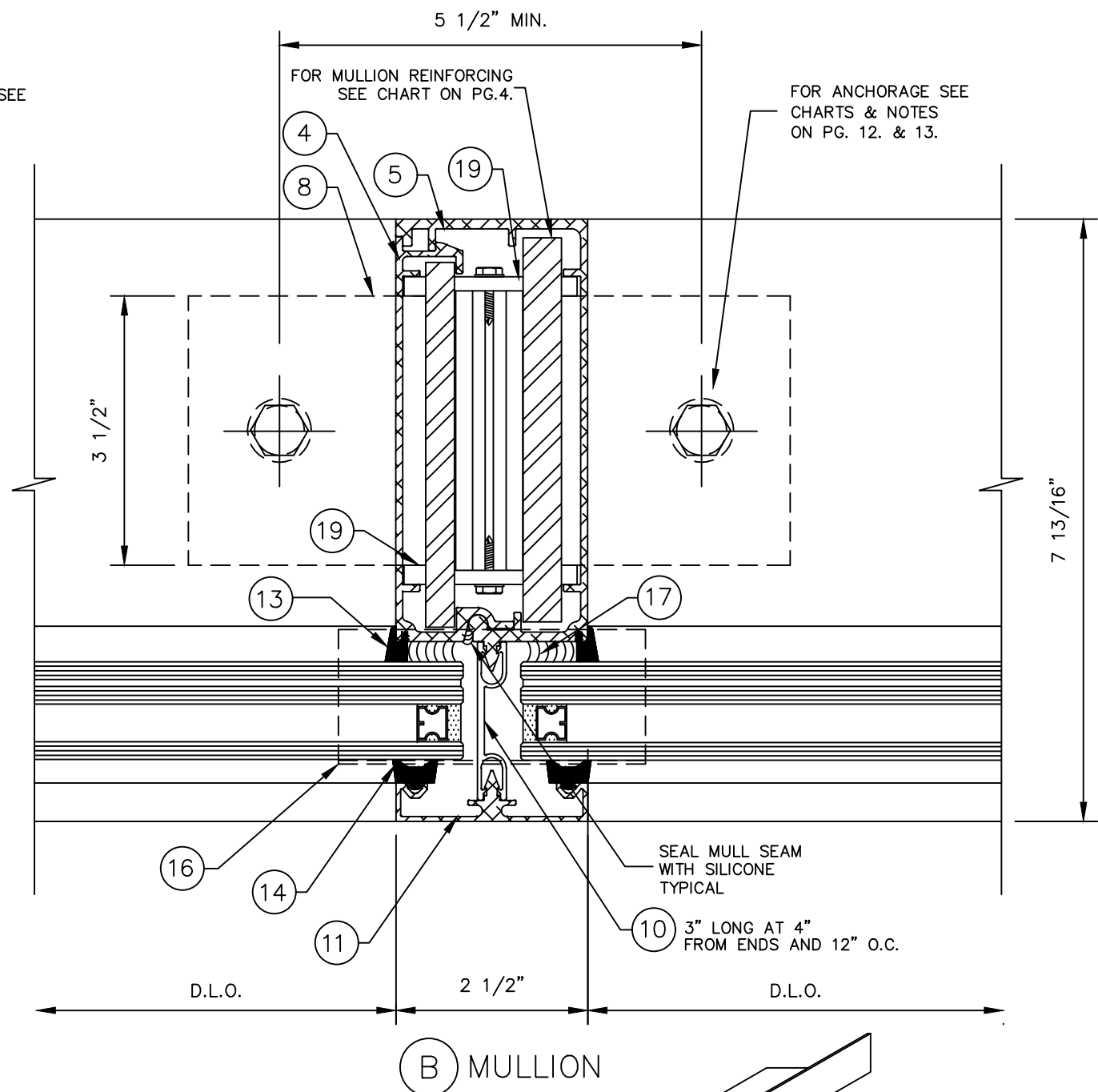
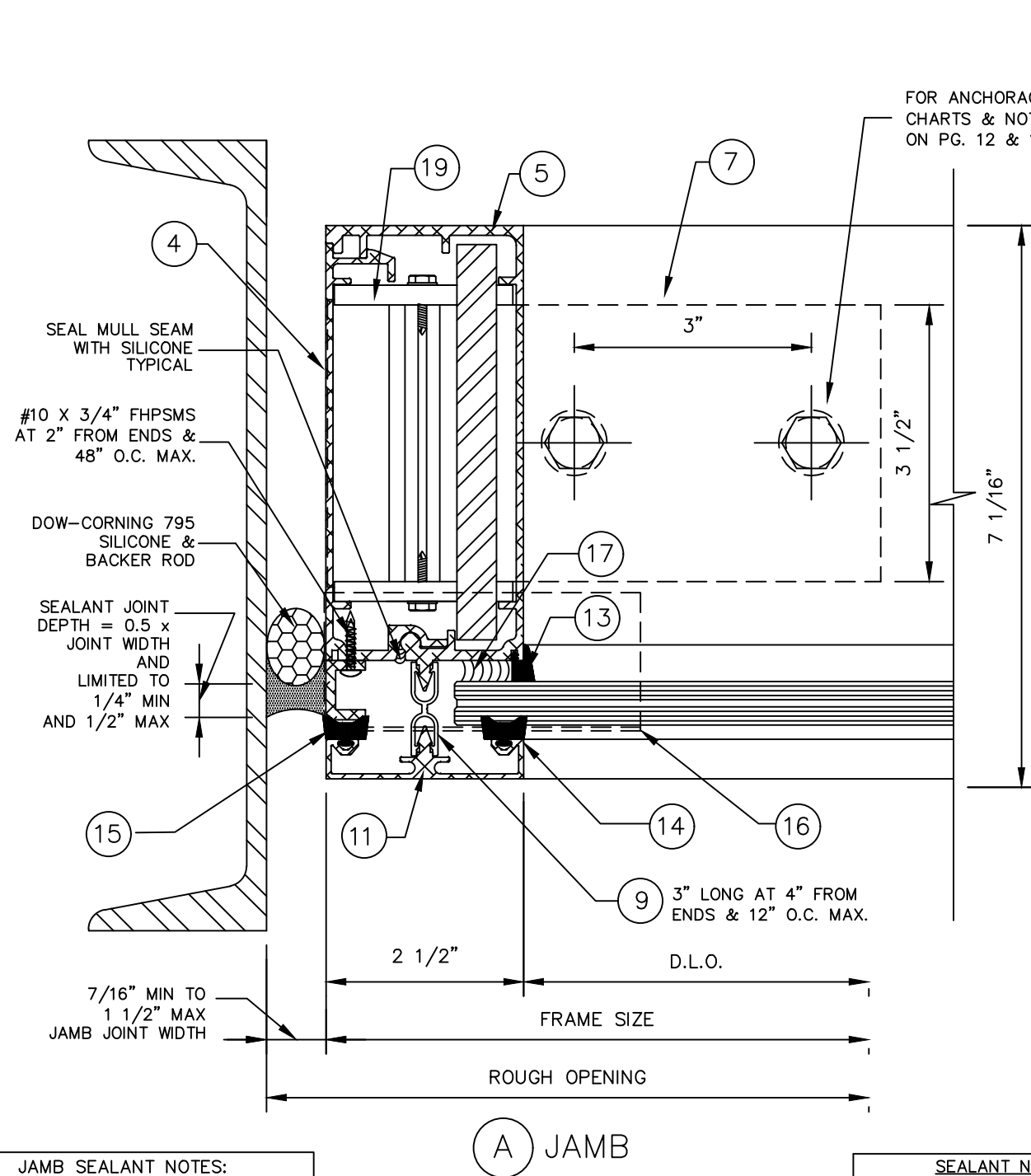
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 4 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020

ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901

SEAL
WILLIAM D. COOK
LICENSE
No. 43904
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
WILLIAM D. COOK, P.E.
FLA P.E. #43904, FLA S.I. #2008

BROMLEY-COOK
ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634

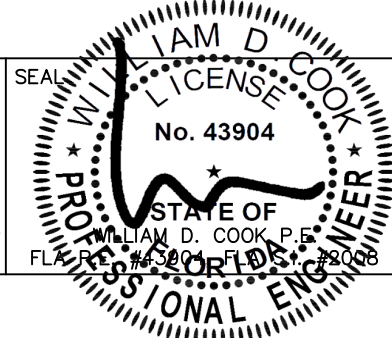


JAMB SEALANT NOTES:
PERIMETER SEALANT OPTIONS:
 DOW-CORNING 795 SILICONE
ALTERNATE SEALANTS AND JAMB GAPS:
 TO BE APPROVED BY DESIGN
 PROFESSIONAL OF RECORD AND
 SEALANT MANUFACTURER

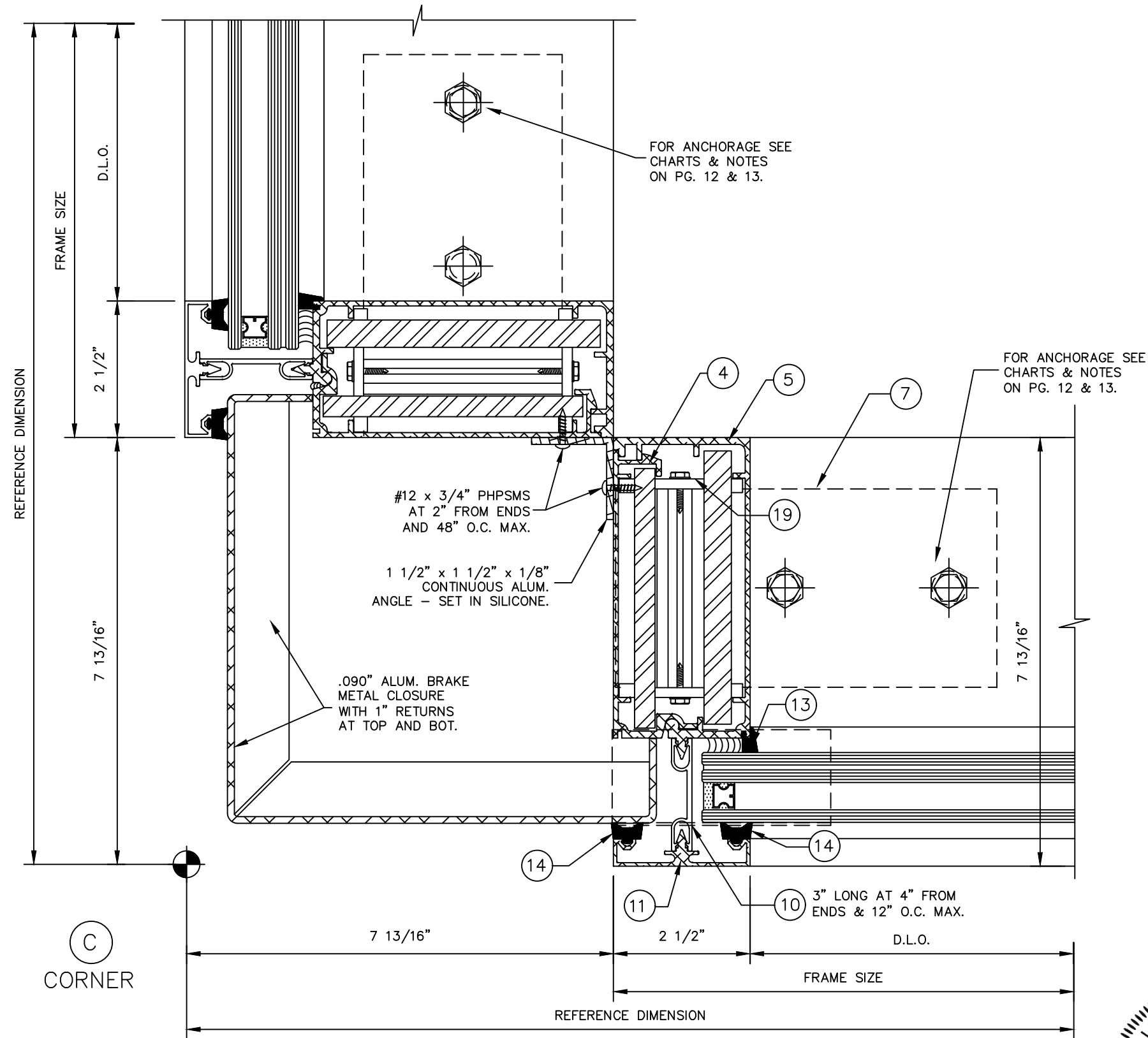
SEALANT NOTES:
 GLAZING BEAD AT FRAME SEALED
 TO GLASS WITH DOW CORNING
 983/995
 FRAME PERIMETER TO STRUCTURE
 SEALED WITH DOW CORNING 795

PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 5 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020


ALDORA
 ALUMINUM AND GLASS PRODUCTS, INC.
 11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
 PHONE: (954) 784-6900 FAX: (954) 784-6901



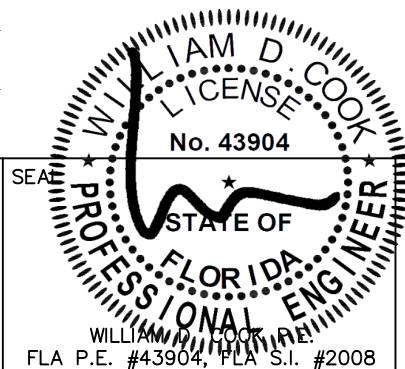
**BROMLEY-COOK
 ENGINEERING, INC.**
STRUCTURAL ENGINEERING SERVICES
 5440 N.W. 33RD AVENUE SUITE 100
 FORT LAUDERDALE, FLORIDA 33309
 TEL: (954) 772-4624
 FAX: (954) 772-4634



(C)
CORNER

PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 6 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020


ALDORA
 ALUMINUM AND GLASS PRODUCTS, INC.
 11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
 PHONE: (954) 784-6900 FAX: (954) 784-6901



**BROMLEY-COOK
ENGINEERING, INC.**
STRUCTURAL ENGINEERING SERVICES
 5440 N.W. 33RD AVENUE SUITE 100
 FORT LAUDERDALE, FLORIDA 33309
 TEL: (954) 772-4624
 FAX: (954) 772-4634

FOR ANCHORAGE SEE
CHARTS & NOTES
ON PG. 12 & 13

FOR MULLION REINFORCING
SEE CHART ON PG.4

IMPACT RESISTANT
STOREFRONT DOOR
SEE SEPERATE N.O.A.

MODIFIED TGF-13 "F"
ANCHOR

FOR ANCHORAGE SEE
CHARTS & NOTES
ON PG. 12

#10 X 3/4" FHPSMS
AT 2" FROM ENDS &
48" O.C. MAX.

DOW-CORNING 795
SILICONE &
BACKER ROD

SEALANT JOINT
DEPTH = 0.5 x
JOINT WIDTH
AND
LIMITED TO
1/4" MIN
AND 1/2" MAX

SEALANT NOTES:

GLAZING BEAD AT FRAME SEALED
TO GLASS WITH DOW CORNING
983/995

FRAME PERIMETER TO STRUCTURE
SEALED WITH DOW CORNING 795

JAMB SEALANT NOTES:

PERIMETER SEALANT OPTIONS:
DOW-CORNING 795 SILICONE

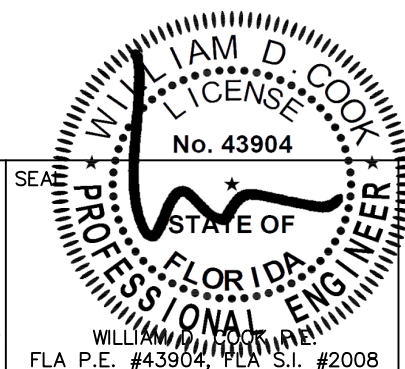
ALTERNATE SEALANTS AND JAMB GAPS:
TO BE APPROVED BY DESIGN
PROFESSIONAL OF RECORD AND
SEALANT MANUFACTURER

D MULLION
AT DOOR JAMB

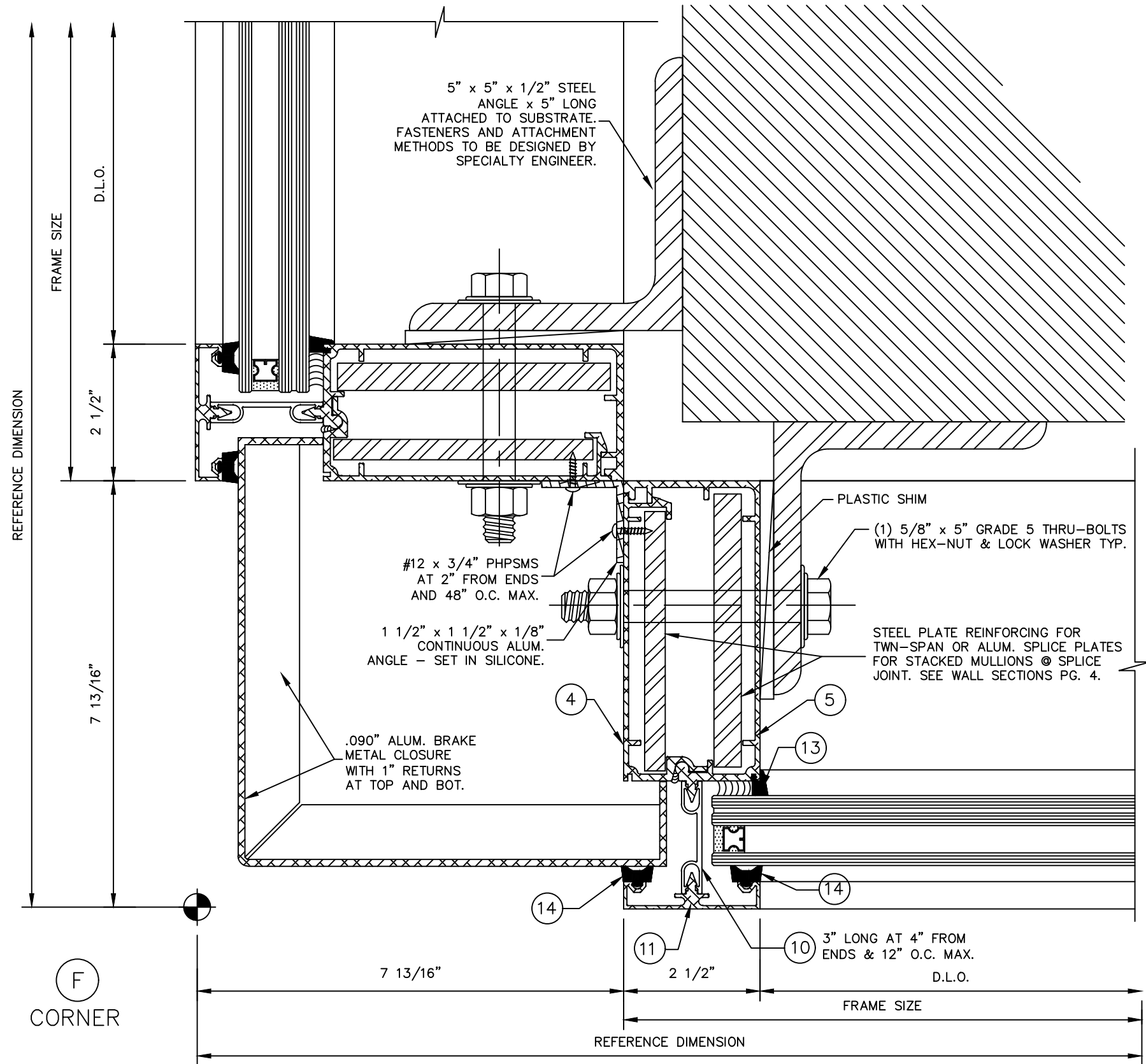
E JAMB MULLION
AT DOOR JAMB

PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 7 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020


ALDORA
 ALUMINUM AND GLASS PRODUCTS, INC.
 11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
 PHONE: (954) 784-6900 FAX: (954) 784-6901

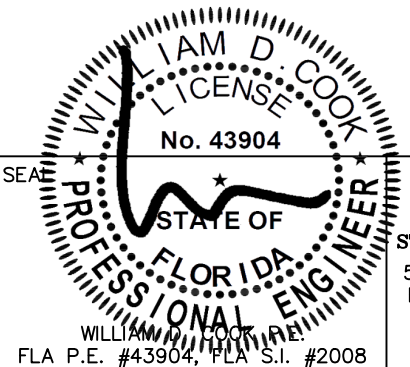


**BROMLEY-COOK
ENGINEERING, INC.**
STRUCTURAL ENGINEERING SERVICES
 5440 N.W. 33RD AVENUE SUITE 100
 FORT LAUDERDALE, FLORIDA 33309
 TEL: (954) 772-4624
 FAX: (954) 772-4634

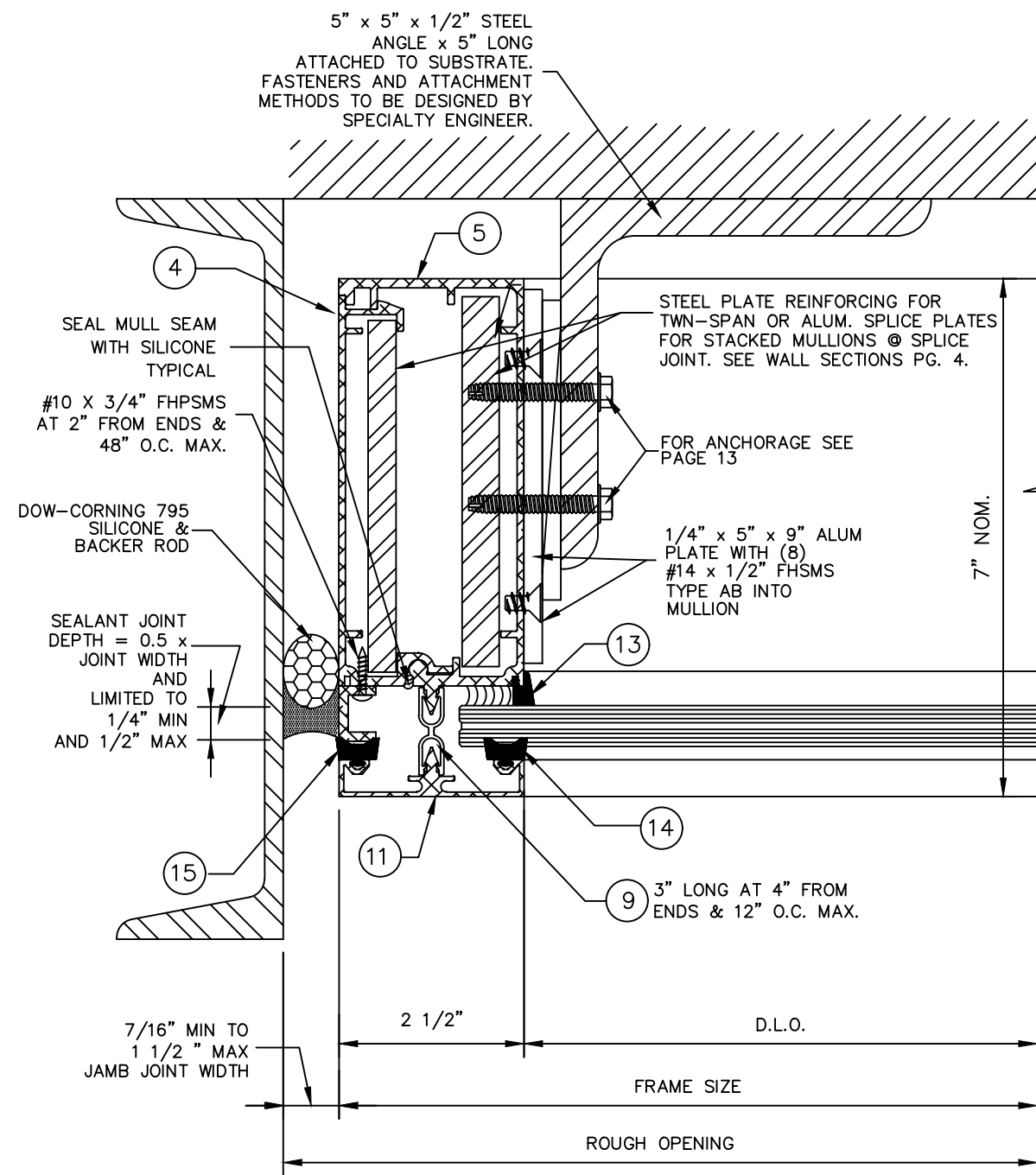


PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SCALE: N.T.S.	DATE: 10/27/2020	
SHT. 8 OF 15.0		


ALDORA
 ALUMINUM AND GLASS PRODUCTS, INC.
 11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
 PHONE: (954) 784-6900 FAX: (954) 784-6901



BROMLEY-COOK ENGINEERING, INC.
 STRUCTURAL ENGINEERING SERVICES
 5440 N.W. 33RD AVENUE SUITE 100
 FORT LAUDERDALE, FLORIDA 33309
 TEL: (954) 772-4624
 FAX: (954) 772-4634



(G) JAMB

JAMB SEALANT NOTES:

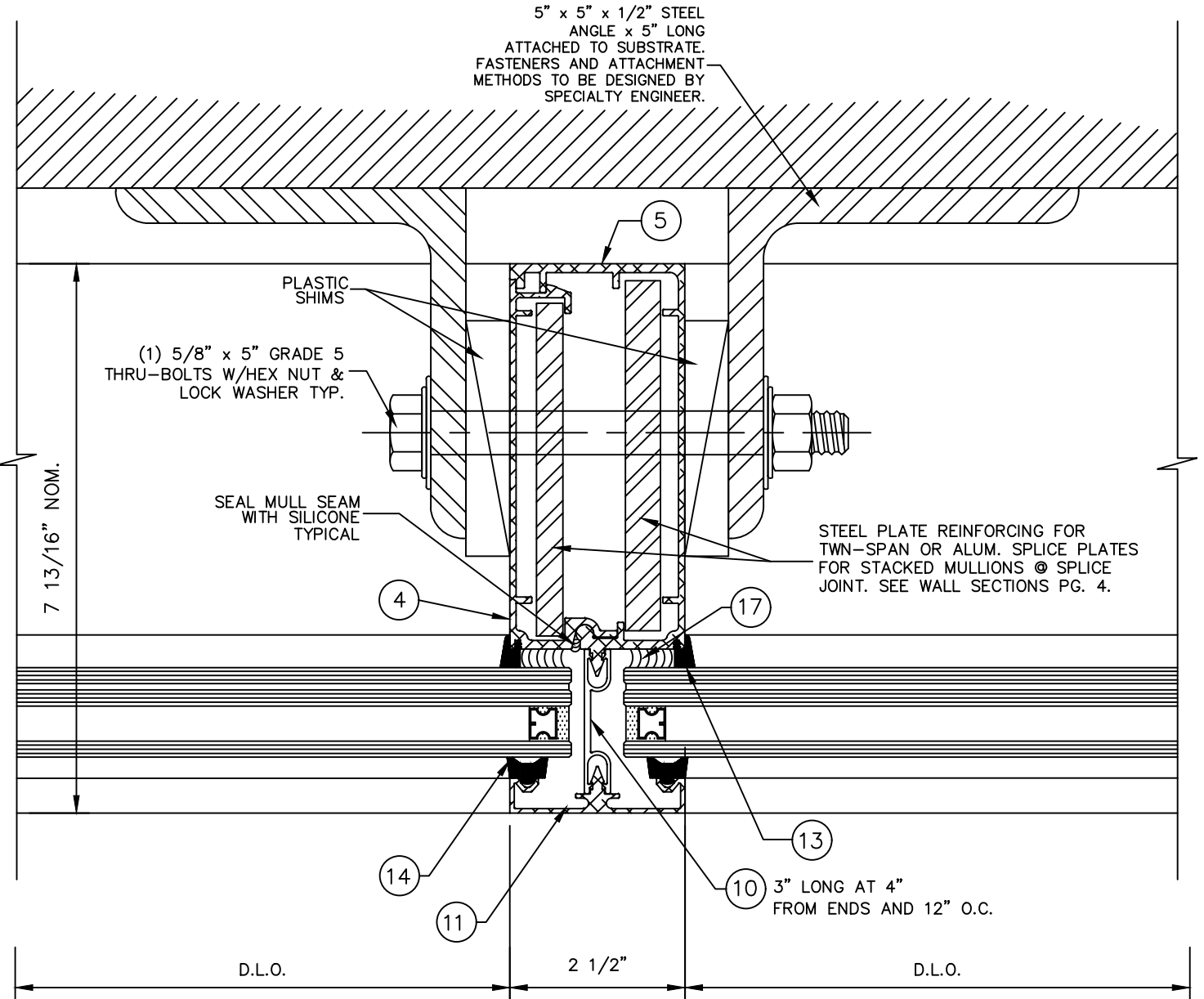
PERIMETER SEALANT OPTIONS:
DOW-CORNING 795 SILICONE

ALTERNATE SEALANTS AND JAMB GAPS:
TO BE APPROVED BY DESIGN PROFESSIONAL OF RECORD AND SEALANT MANUFACTURER

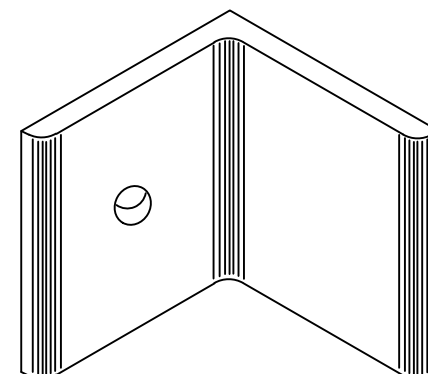
SEALANT NOTES:

GLAZING BEAD AT FRAME SEALED TO GLASS WITH DOW CORNING 983/995

FRAME PERIMETER TO STRUCTURE SEALED WITH DOW CORNING 795



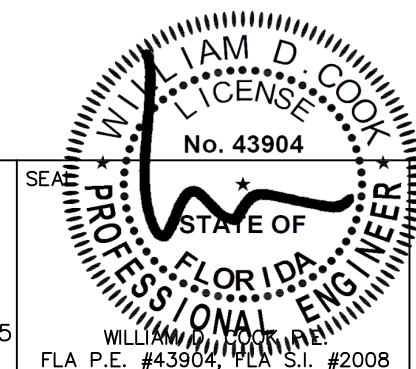
(H) MULLION



STEEL ANCHOR CLIP ISOMETRIC VIEW

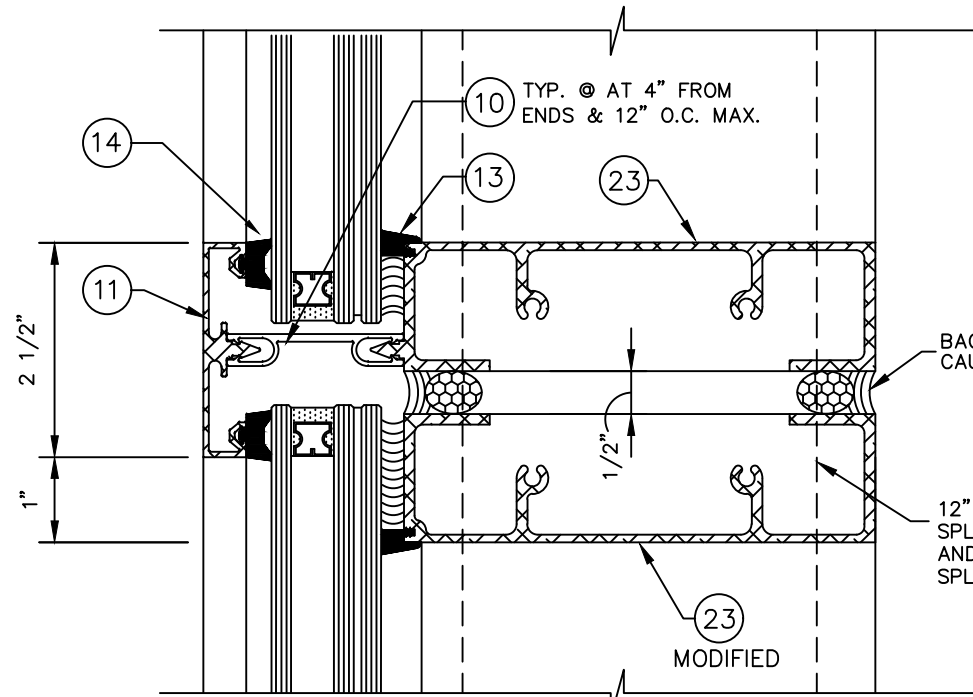
PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SCALE: N.T.S.	DATE: 10/27/2020	
SHT. 9 OF 15.0		

ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901

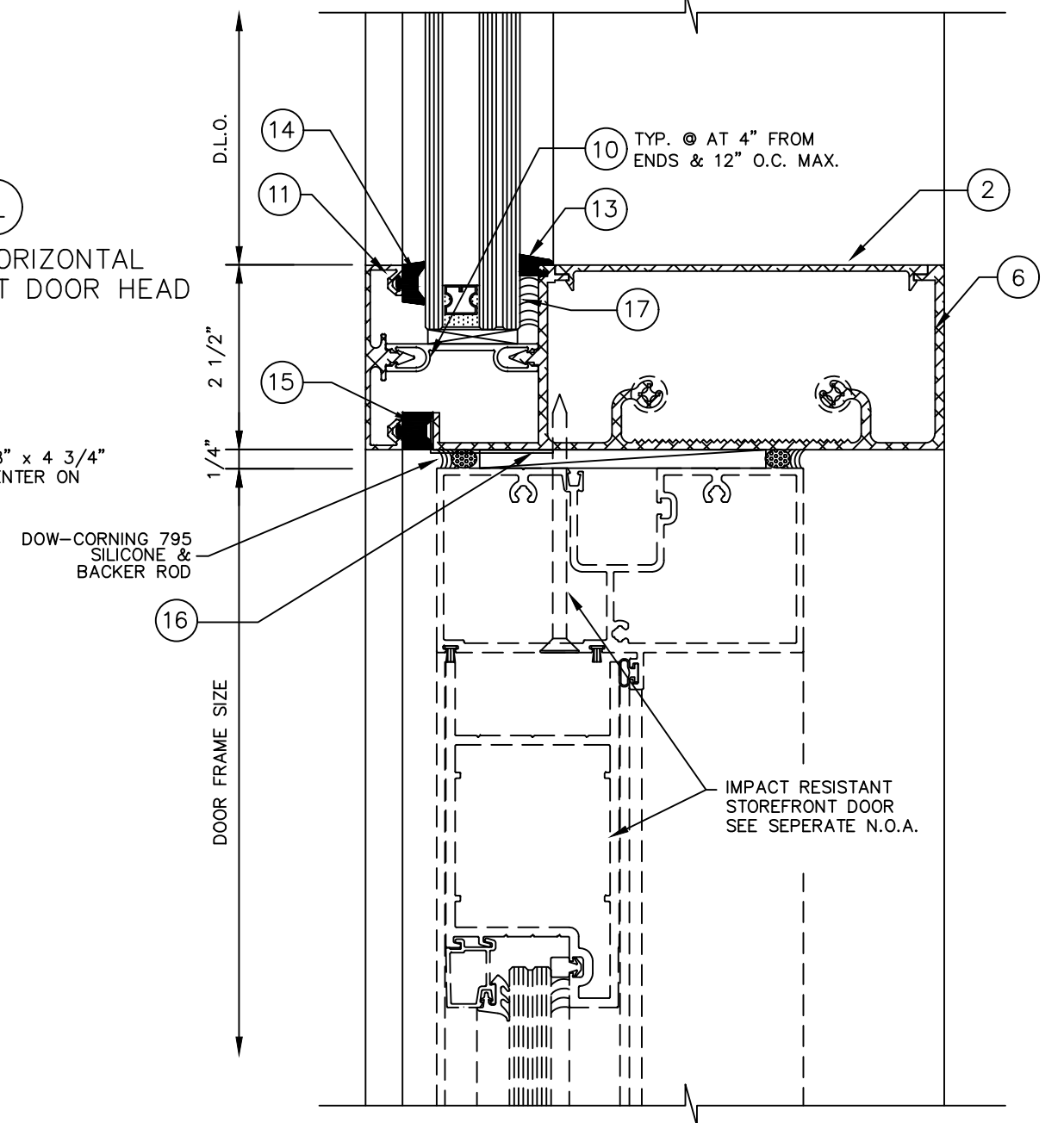


BROMLEY-COOK ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634

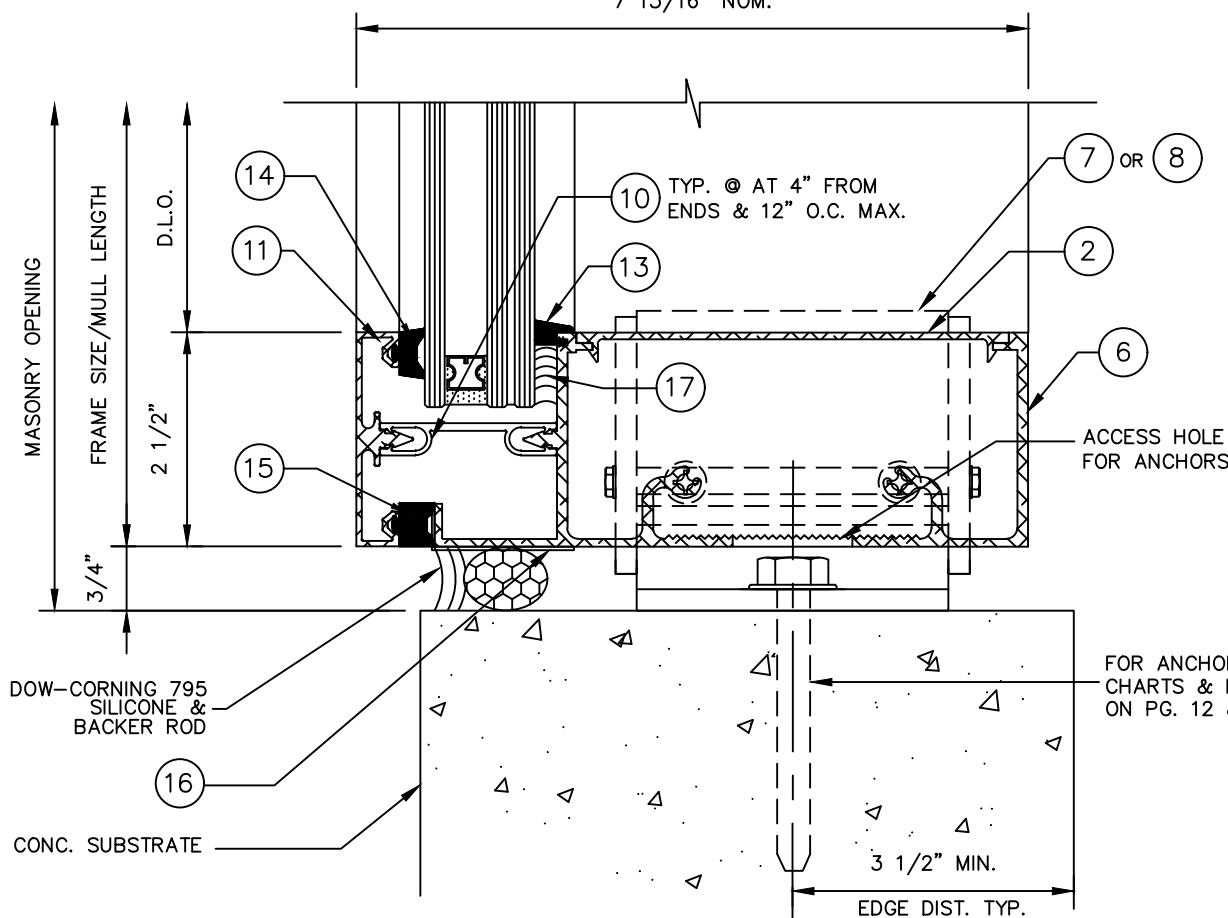
(J)
HORIZONTAL
AT STACK JT.



(L)
HORIZONTAL
AT DOOR HEAD



(K)
SILL



FOR ANCHORAGE SEE
CHARTS & NOTES
ON PG. 12 & 13

SEALANT NOTES:

GLAZING BEAD AT FRAME SEALED
TO GLASS WITH DOW CORNING
983/995

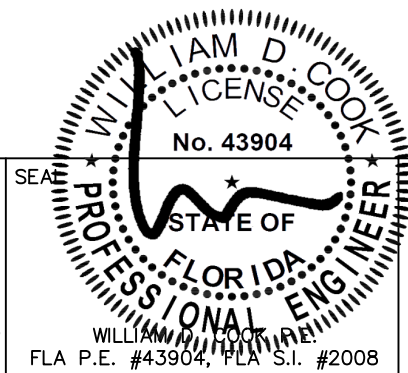
FRAME PERIMETER TO STRUCTURE
SEALED WITH DOW CORNING 795

DOW-CORNING 795
SILICONE &
BACKER ROD

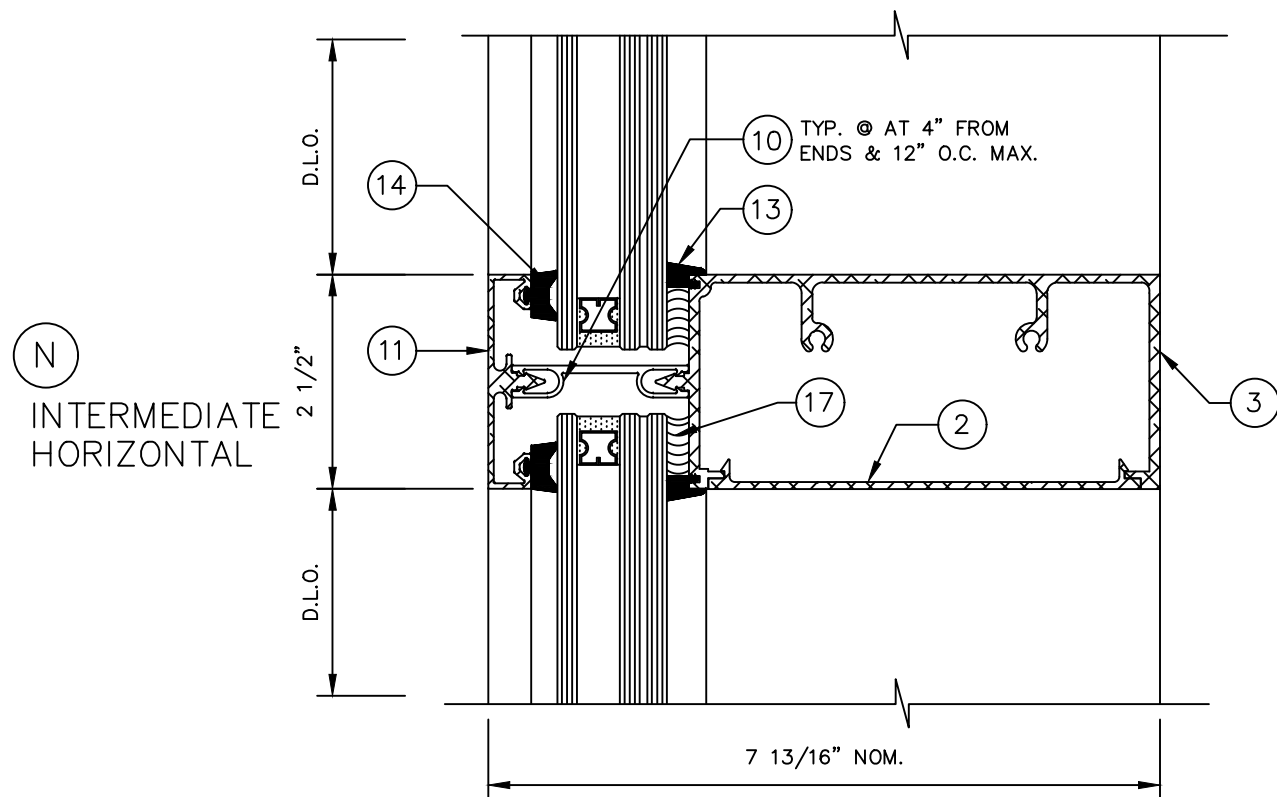
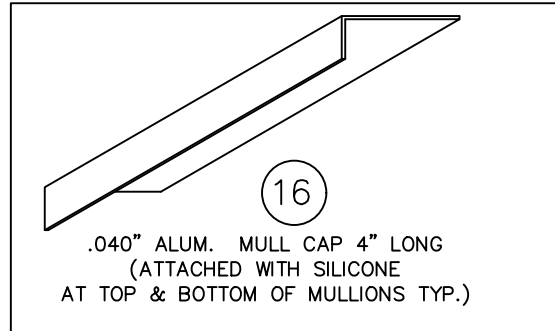
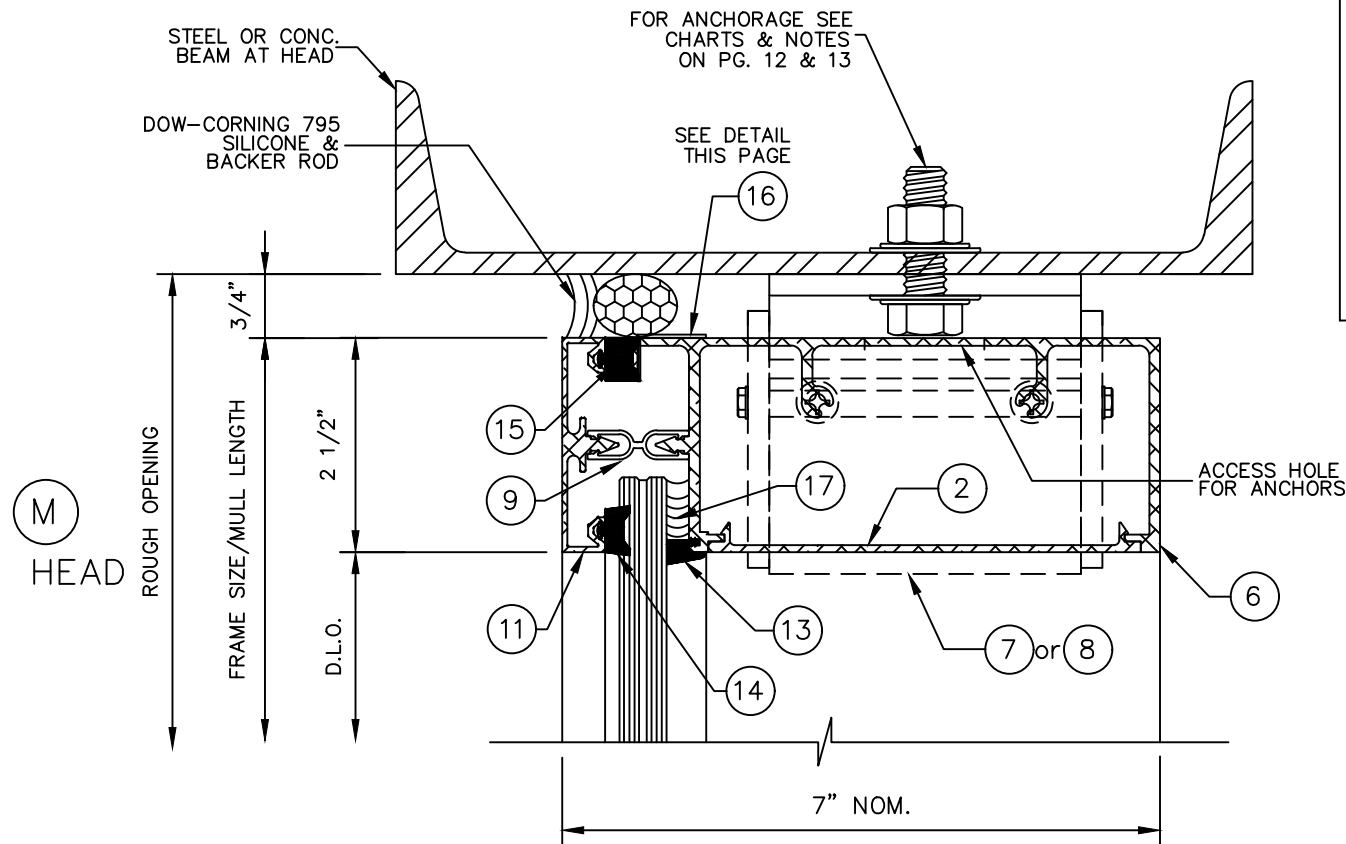
CONC. SUBSTRATE

PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 10 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020

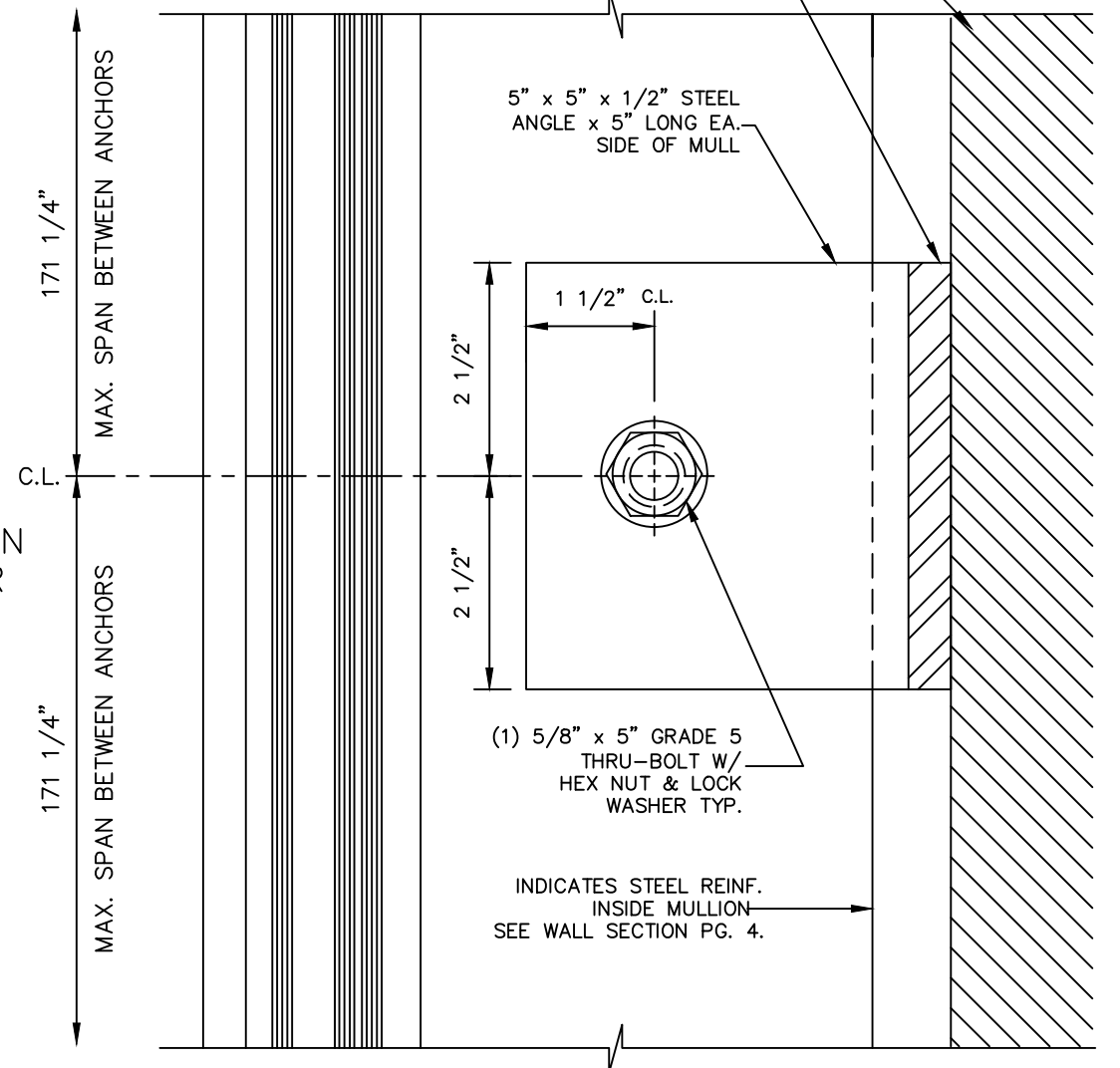
ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901



**BROMLEY-COOK
ENGINEERING, INC.**
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634



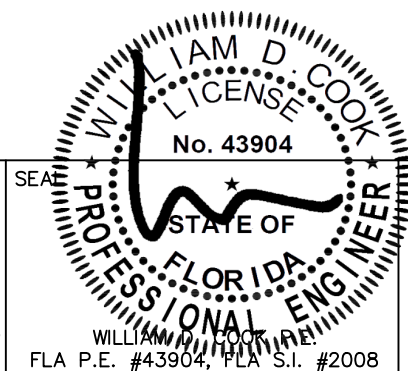
(P)
MID-SPAN ANCHOR



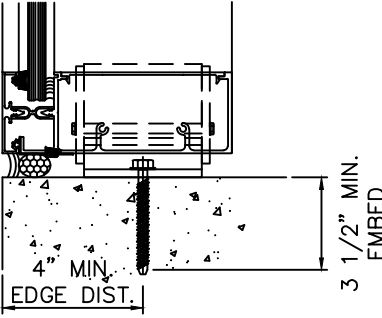
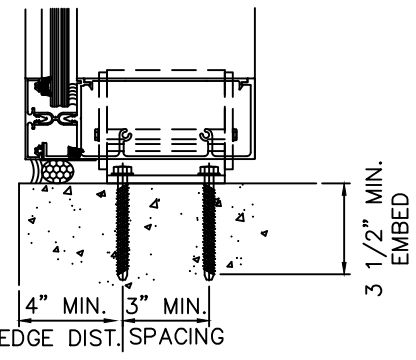
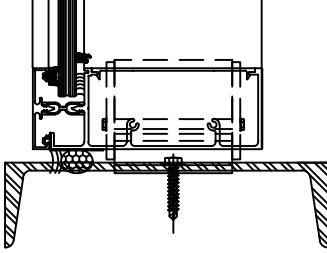
PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 11 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020

ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.

11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901

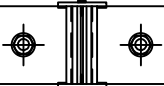
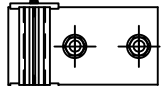
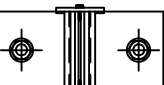
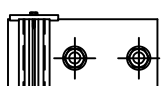
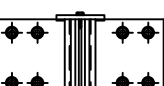
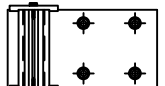
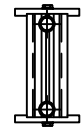


BROMLEY-COOK ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634

MULLION ANCHOR OPTIONS		
ANCHOR TYPE SUBSTRATE	"F" OR "T" ANCHOR IN VERTICAL MULLION ENDS	MODIFIED "F" ANCHOR IN DOOR JAMB MULLION END
CONCRETE (3000 PSI MIN.)	"A2,B2" 	"J2" 
STEEL ASTM-A36 (1/8" THICK MIN.)	"C2,D8,G2,H4" 	

FRAME ANCHOR LOAD CHART								
	MEMBER	MULLION	JAMB	JAMB	MULLION	JAMB	MULLION	JAMB
	ANCHOR TYPE	A2	B2	J2	C2	C2	D8	D4
	SUBSTRATE	CONCRETE			METAL			
WIDTH (W)	LENGTH (L)	ALLOWABLE WIND LOAD (PSF)						
48"	171 1/4"	95	95	95	95	110	95	79
54"		95	86	86		110		70
60"		88	77	77		110		63
62"		85	75	75		110		61
68"		77	68	68		109		55
74"		71	62	62		100		51
80"		66	58	58		93		47
48"	159 1/4"	95	95	95		110		86
54"		95	94	94		110		76
60"		95	84	84		110		69
62"		93	82	82		110		67
68"		85	74	74		110		61
74"		78	68	68		108		56
80"		72	63	63		100		52
48"	147 1/4"	95	95	95		110		93
54"		95	95	95		110		83
60"		95	91	91		110		74
62"		95	88	88		110		72
68"		91	80	80		110		66
74"		84	74	74		110		60
80"		78	68	68	95	108	95	56

NOTE: INTERMEDIATE THRU-BOLT ANCHORS ARE ADEQUATE FOR FULL LOAD CAPACITY OF SYSTEM.

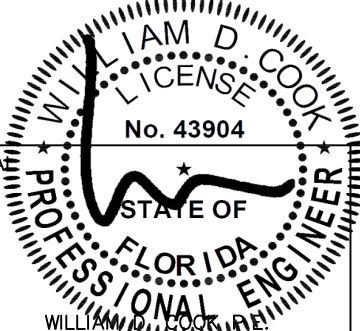
MULLION ANCHORAGE (HEAD & SILL)		JAMB ANCHORAGE (HEAD & SILL)	
	CONCRETE: A2- (2)3/8" DIA. "POWERS" WEDGE BOLTS PER EA. "T" ANCHOR (1 EACH SIDE OF MULLION) 3 1/2" MIN. EMBED 4" MIN. EDGE DIST. 5 1/2" MIN. C.C. SPACING		CONCRETE: B2-(2)3/8" DIA. "POWERS" WEDGE BOLTS PER EA. "F" ANCHOR 3 1/2" MIN. EMBED 4" MIN. EDGE DIST. 3" MIN. C.C. SPACING
	STEEL: C2- (2)3/8" DIA. GRADE 5 H.H. BOLTS PER "F" ANCHOR THRU 1/8" MIN. THICKNESS A36 STEEL.		STEEL: C2- (2)3/8" DIA. GRADE 5 H.H. BOLTS PER "F" ANCHOR THRU 1/8" MIN. THICKNESS A36 STEEL. (1 EA. SIDE OF MULLION)
	STEEL: D8- (8)#14 H.H. SELF DRILLING OR TEK SCREWS PER "T" ANCHOR THRU 1/8" MIN. THICKNESS A36 STEEL. (4 EA. SIDE OF MULLION)		STEEL: D4- (4)#14 H.H. SELF DRILLING OR TEK SCREWS PER "F" ANCHOR THRU 1/8" MIN. THICKNESS A36 STEEL.
		DOOR JAMB ANCHORAGE (SILL)	
			CONCRETE: J2- (2)3/8" DIA. "POWERS" WEDGE BOLTS PER EA. CLIP ANCHOR 3 1/2" MIN. EMBED. 4" MIN. EDGE DIST. 3" MIN. C.C. SPACING

PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 12 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020



ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.
11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901

SEAL

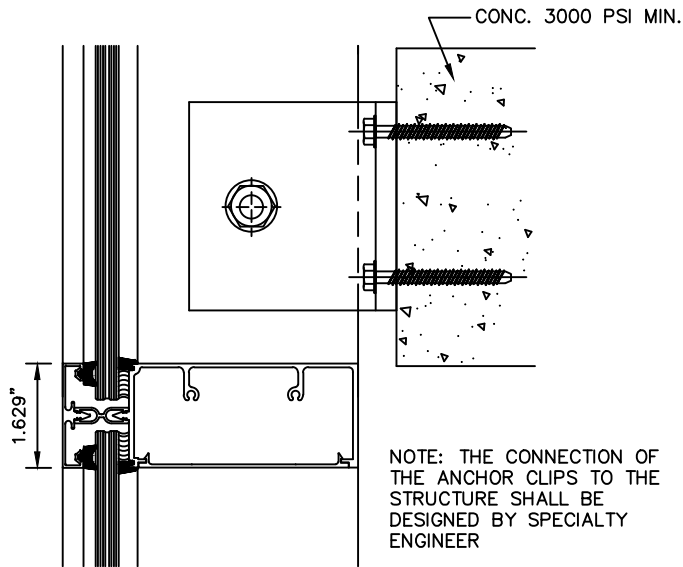


WILLIAM D. COOK
LICENSE No. 43904
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM D. COOK, P.E.
FLA P.E. #43904, FLA S.I. #2008

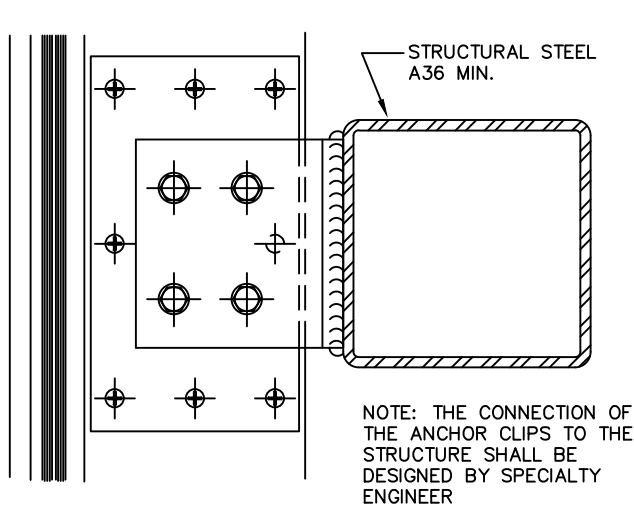
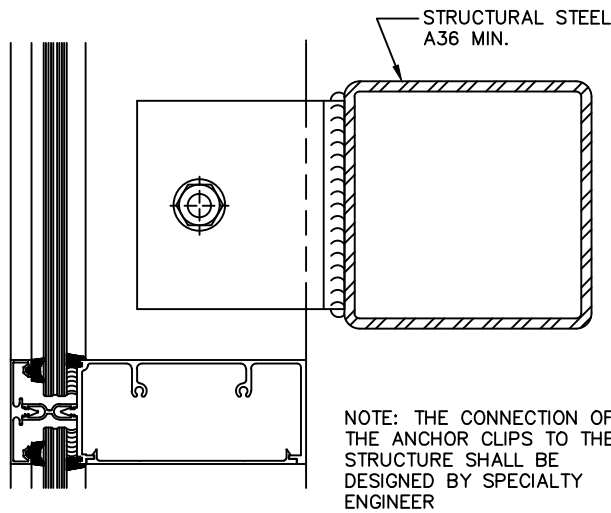
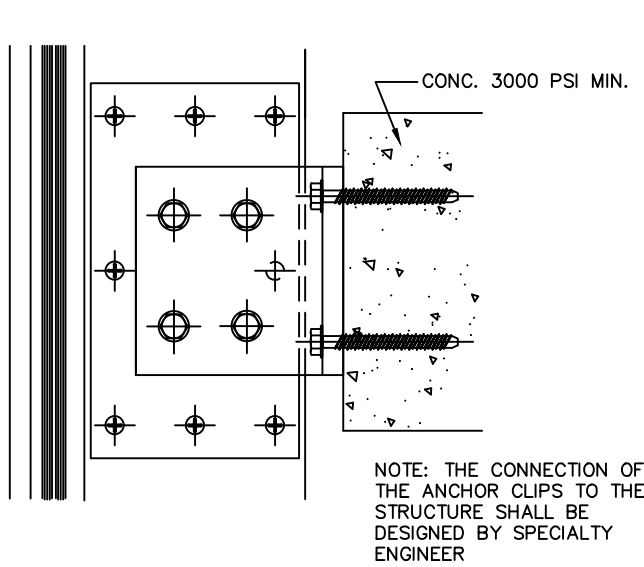
**BROMLEY-COOK
ENGINEERING, INC.**
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634

INTERMEDIATE ANCHORAGE

TWIN SPAN
MID-SPAN
MULLION ANCHOR
CLIP



TWIN SPAN
MID-SPAN
JAMB ANCHOR
CLIP



MULLION ANCHORAGE (MID-SPAN)
5/8" DIA. H.H. BOLTS GRADE-5 WITH HEX-
NUTS & LOCK WASHERS (1 PER EA. MID-SPAN
ANCHOR CLIP)

JAMB ANCHORAGE (MID-SPAN)
(4) 3/8" DIA. GRADE 5 H.H.M.S. TYPE "F"
THREAD FORMING
(4 PER EA. MID-SPAN ANCHOR CLIP)

PROJECT NAME: TCW-250TS LMI (W/REINFORCING)

DRAWING NUMBER:
TCW-250TS.LMI.R

SHT. 13 OF 15.0

DRAW BY:
C.M.D.
SCALE:
N.T.S.

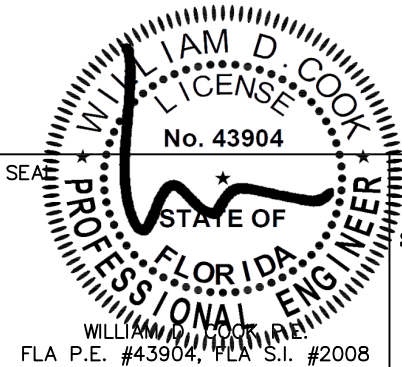
PRODUCT APPROVAL NO.:
FL17655.2
DATE:
10/27/2020



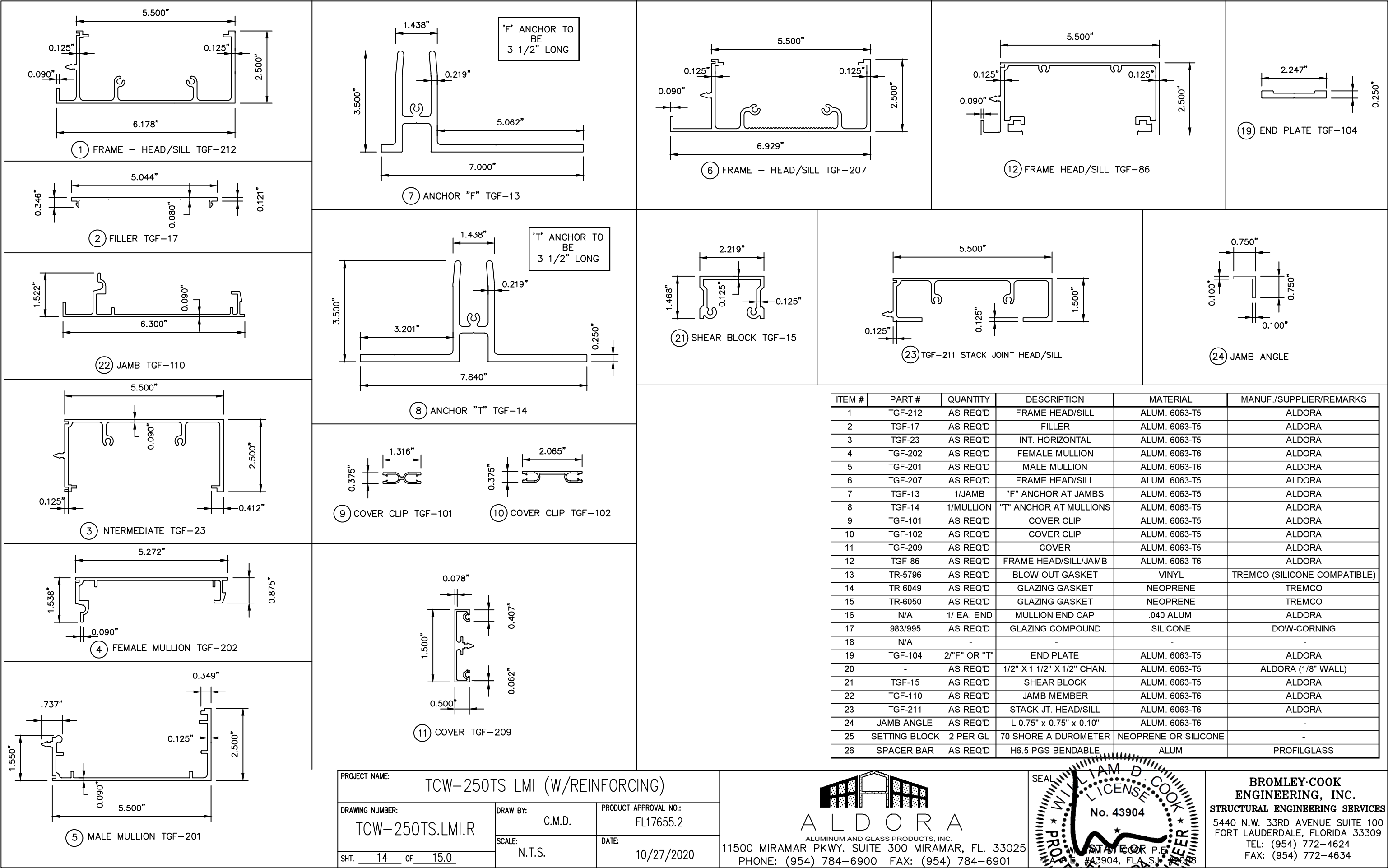
ALDORA

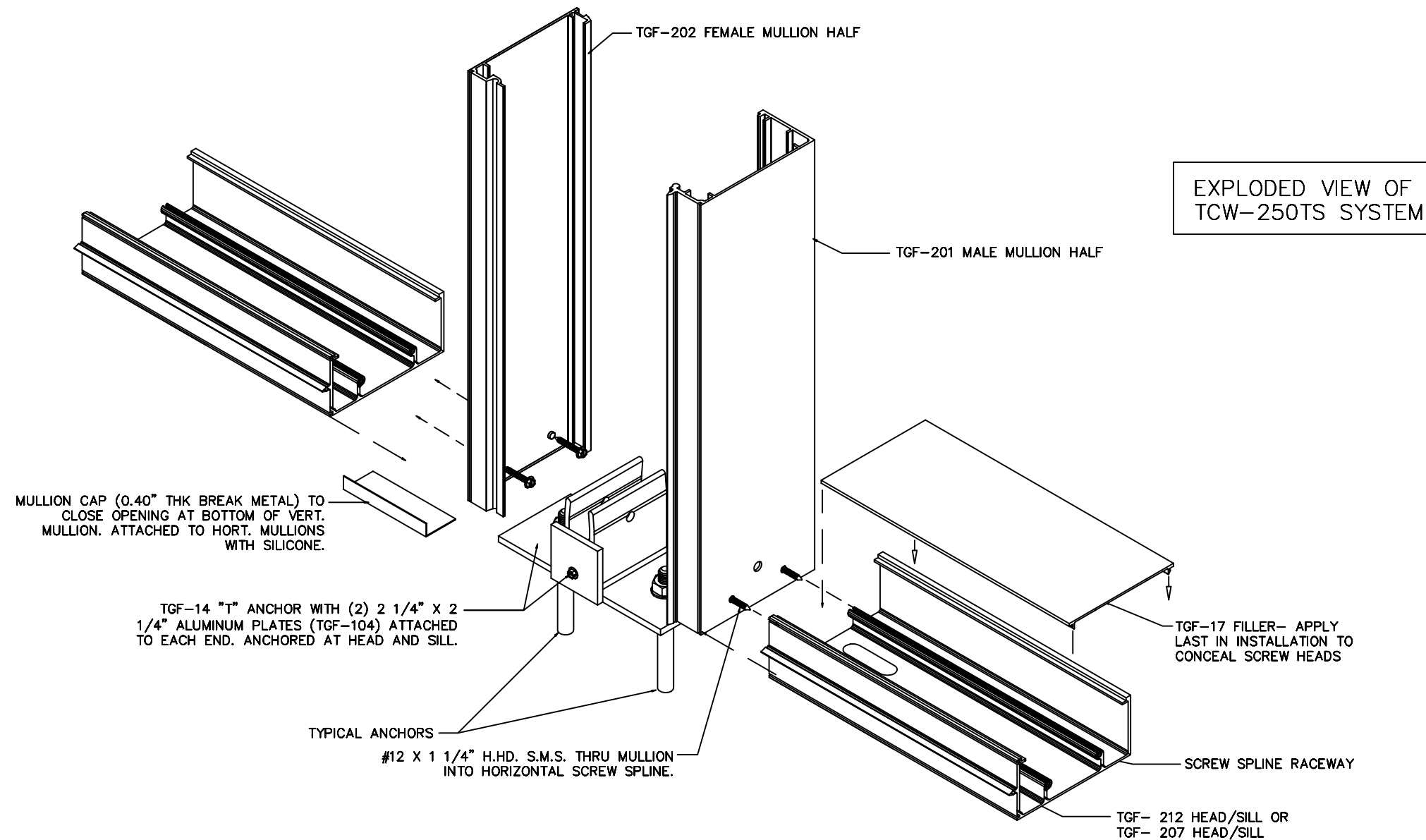
ALUMINUM AND GLASS PRODUCTS, INC.

11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
PHONE: (954) 784-6900 FAX: (954) 784-6901



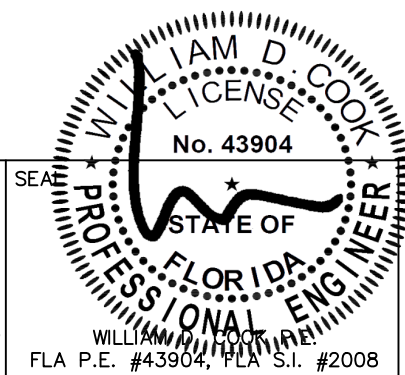
**BROMLEY-COOK
ENGINEERING, INC.**
STRUCTURAL ENGINEERING SERVICES
5440 N.W. 33RD AVENUE SUITE 100
FORT LAUDERDALE, FLORIDA 33309
TEL: (954) 772-4624
FAX: (954) 772-4634





PROJECT NAME: TCW-250TS LMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.LMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.2
SHT. 15 OF 15.0	SCALE: N.T.S.	DATE: 10/27/2020


ALDORA
 ALUMINUM AND GLASS PRODUCTS, INC.
 11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
 PHONE: (954) 784-6900 FAX: (954) 784-6901



**BROMLEY-COOK
ENGINEERING, INC.**
 STRUCTURAL ENGINEERING SERVICES
 5440 N.W. 33RD AVENUE SUITE 100
 FORT LAUDERDALE, FLORIDA 33309
 TEL: (954) 772-4624
 FAX: (954) 772-4634