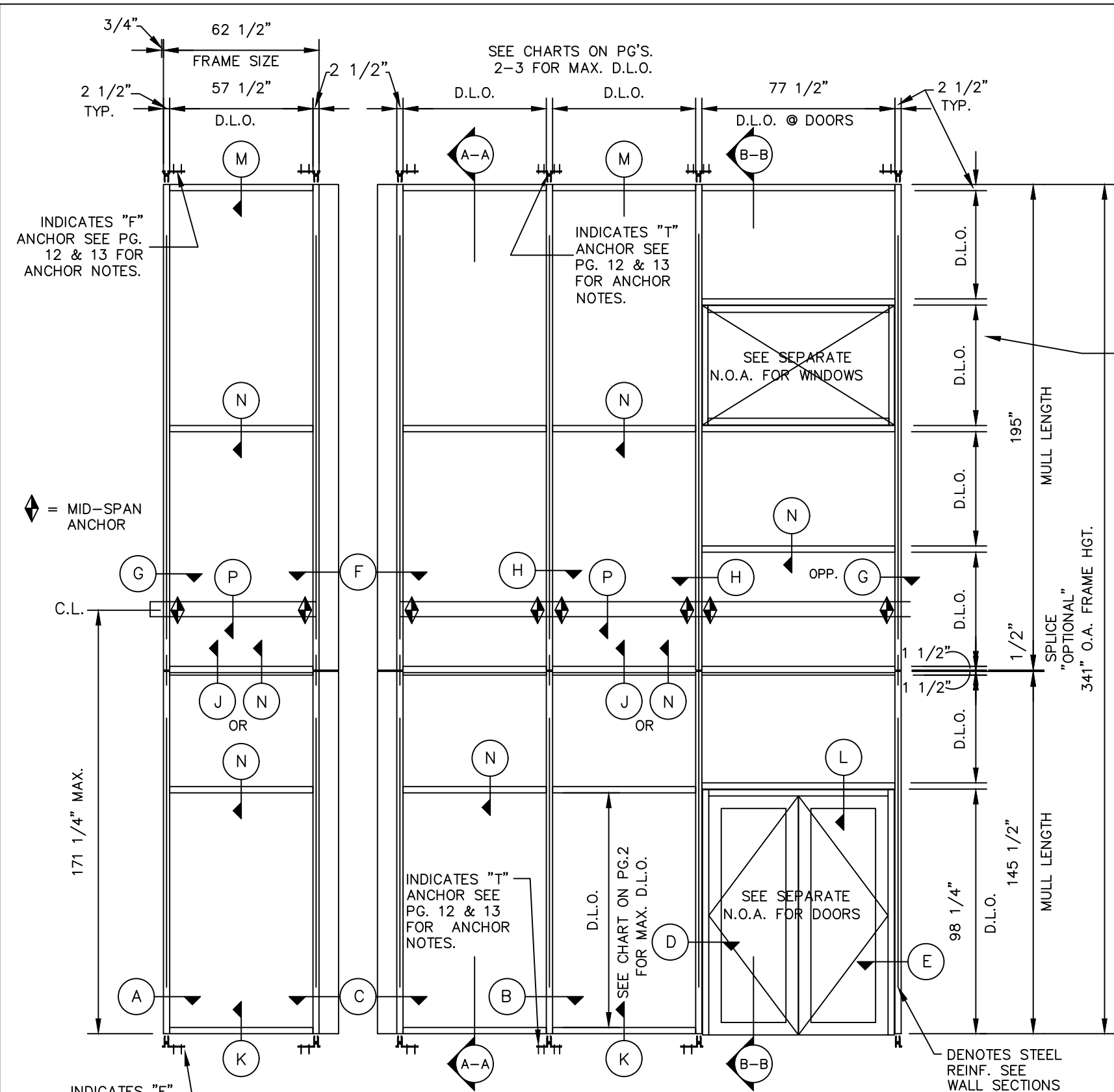
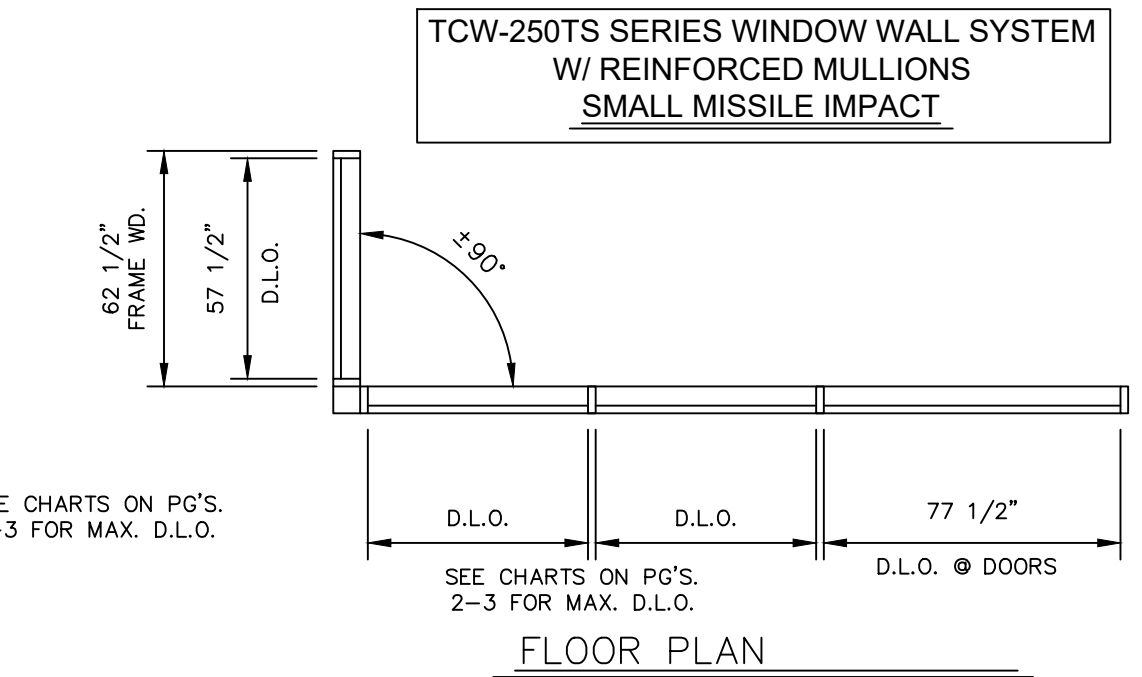




PROJECT NAME: TCW-250TS SMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SHT. 1 OF 15	SCALE: N.T.S.	DATE: 10/27/2020



- 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 SHEETS 2 AND 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 SMALL MISSILE IMPACT. HURRICANE SHUTTERS ARE NOT REQUIRED.
 - 3.) THIS SYSTEM MAY ONLY BE INSTALLED IN OPENINGS 30' ABOVE GRADE AND HIGHER.
 - 4.) THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPROVED ENTRANCE DOORS AND OR WINDOWS.
 - 5.) CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
 - 6.) WOOD BUCKS MUST BE ENGINEERED SEPERATELY BY THE ENGINEER OF RECORD AND SHALL BE ANCHORED TO THE STRUCTURE PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
 - 7.) ALL ANCHORS SHALL BE AS LISTED IN ANCHOR NOTES & CHARTS AND SHALL BE LOCATED AS DETAILED HEREIN.
 - 8.) ANCHOR EMBEDMENT INTO BASE MATERIAL (SUBSTRATE) SHALL BE THROUGH WALL DRESSING, WOOD BUCKS AND OR STUCCO.
 - 9.) ALL STEEL IN CONTACT WITH ALUMINUM OR CONC. SHALL BE PAINTED WITH ASPHALTIC/BITUMINUOUS COATING

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SEAL

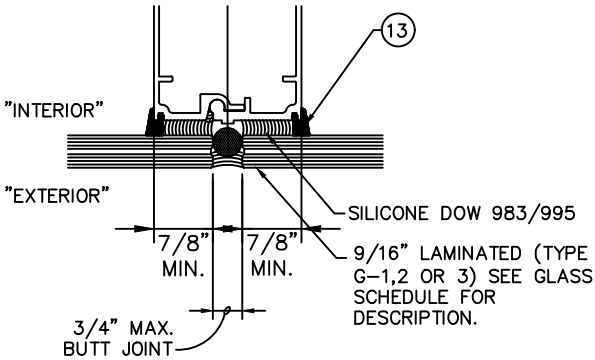
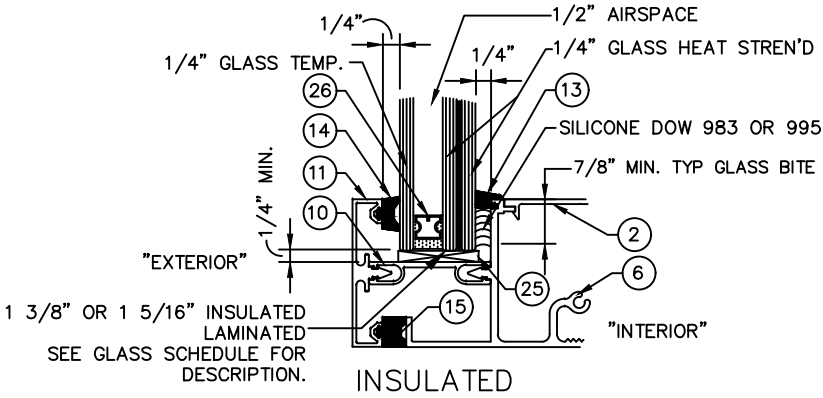
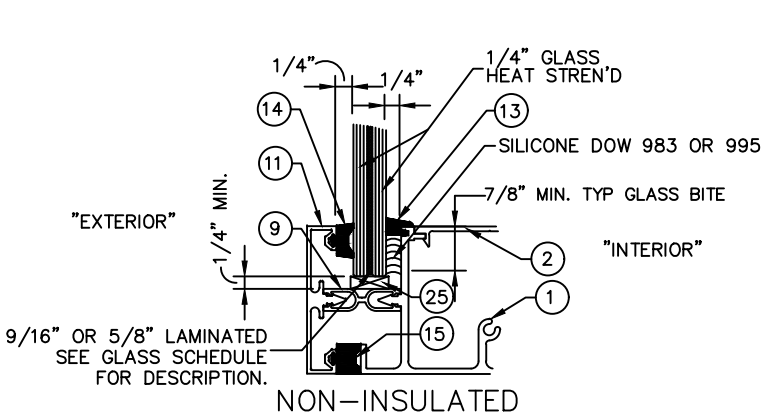
WILLIAM D. COOK
LICENSE
No. 43904
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BROMLEY-COOK ENGINEERING, INC.
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5440 N.W. 33RD AVENUE SUITE 100
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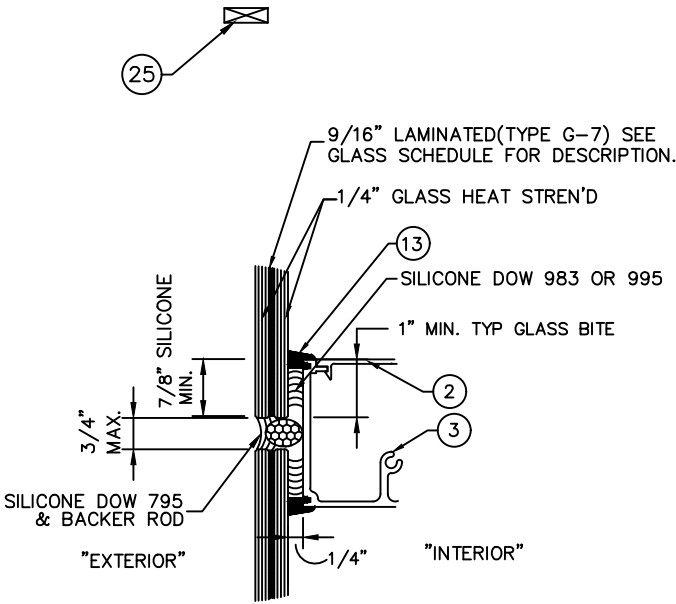
GLAZING DETAILS

GLASS SCHEDULE (S.M.I.)				
TYPE	NOMINAL THICKNESS	DESCRIPTION		MISSILE TYPE
G-7	9/16"	LAMINATED GLASS	1/4" HS OUTBOARD- 0.060" DUPONT BUTACITE INTERLAYER- 1/4" HS INBOARD	SMALL
G-8	1 5/16"	INSULATED LAMINATED GLASS	1/4" TEMP. OUTBOARD- 1/2" AIRSPACE 1/4" HS- 0.060" DUPONT BUTACITE INTERLAYER- 1/4" HS INBOARD	SMALL

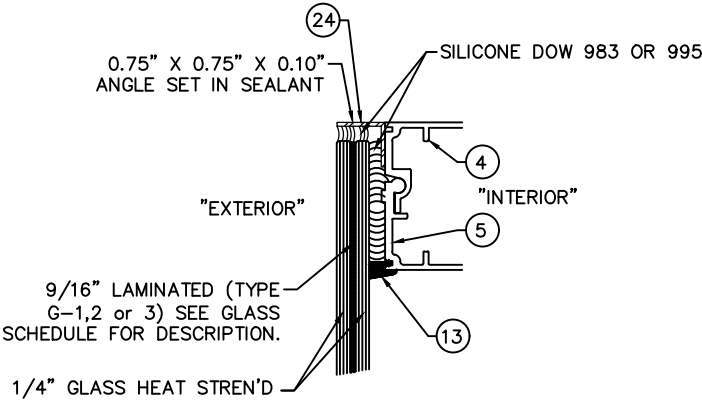
OPTIONAL: 6mm THK. COMPOSITE ALUMINUM PANEL IN LIEU OF GLAZING.
(COMPOSITION: 030" ALUM. SHEET - 3/16" PLYWOOD - .030" ALUM. SHEET)



VERTICAL BUTT JOINT
STRUCTURALLY GLAZED



HORIZONTAL BUTT JOINT
STRUCTURALLY GLAZED

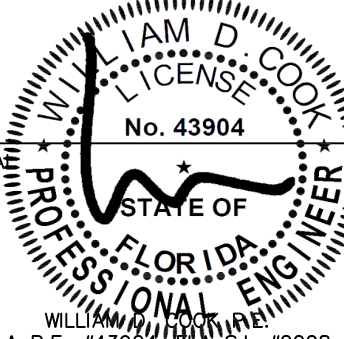


JAMB STRUCTURALLY GLAZED

PROJECT NAME: TCW-250TS SMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SHT. 2 OF 15	SCALE: N.T.S.	DATE: 10/27/2020



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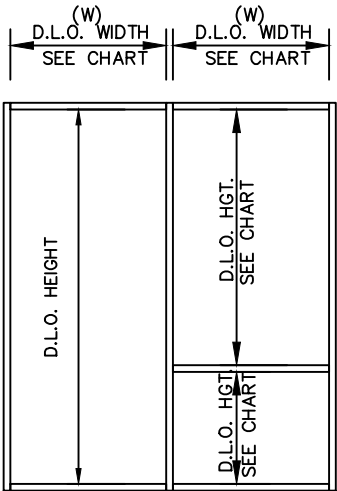


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FLA P.E. #43904, FLA S.I. #2008

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FAX: (954) 772-4634

GLASS LOAD CAPACITY (S.M.I.) – P.S.F.					
NOMINAL DIM'S.		LAMINATED GLASS GLASS TYPE: G-7		LAMINATED/INSULATED GLASS GLASS TYPE: G8	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)
42"	81"	80	90	80	95
45"					
48"					
51"					
54"					
57"					
60"					
63"					
66"					
39"	84"				
42"					
45"					
48"					
51"					
54"					
57"					
60"					
64"					
39"	87"				
42"					
45"					
48"					
51"					
54"					
57"					
60"					
62"					
36"	90"				
39"					
42"					
45"					
48"					
51"					
54"					
57"					
60"					
36"	93"				
39"					
42"					
45"					
48"					
51"					
54"					
58"					
		80	90	80	95

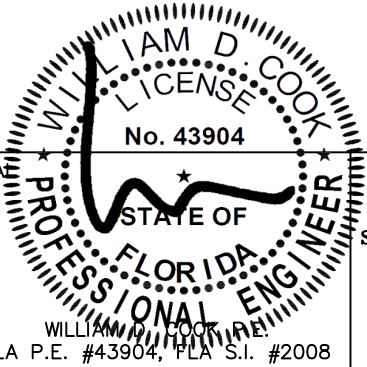
GLASS LOAD CAPACITY (S.M.I.) – P.S.F.					
NOMINAL DIM'S.		LAMINATED GLASS GLASS TYPE: G7		LAMINATED/INSULATED GLASS GLASS TYPE: G8	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)
39"	95"	80	90	80	95
42"					
45"					
48"					
51"					
54"					
36"	99"				
39"					
42"					
45"					
48"					
51"					
54"					
36"	102"				
39"					
42"					
45"					
48"					
51"					
53"					
36"	105"				
39"					
42"					
45"					
48"					
51"					
36"	108"				
39"					
42"					
45"					
48"					
50"					
36"	111"				
39"					
42"					
45"					
48"	114"				
36"					
39"					
42"					
45"					
47"		80	90	80	95



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SCALE: N.T.S.	DATE: 10/27/2020	
SHT. 3 OF 15		

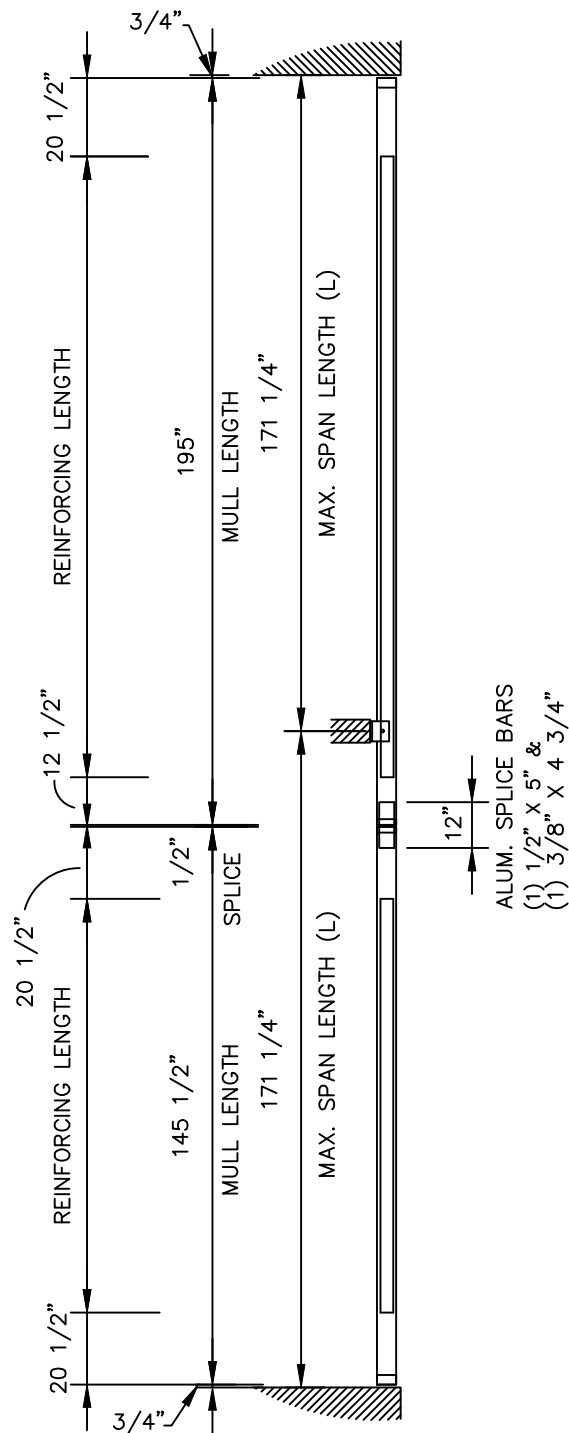


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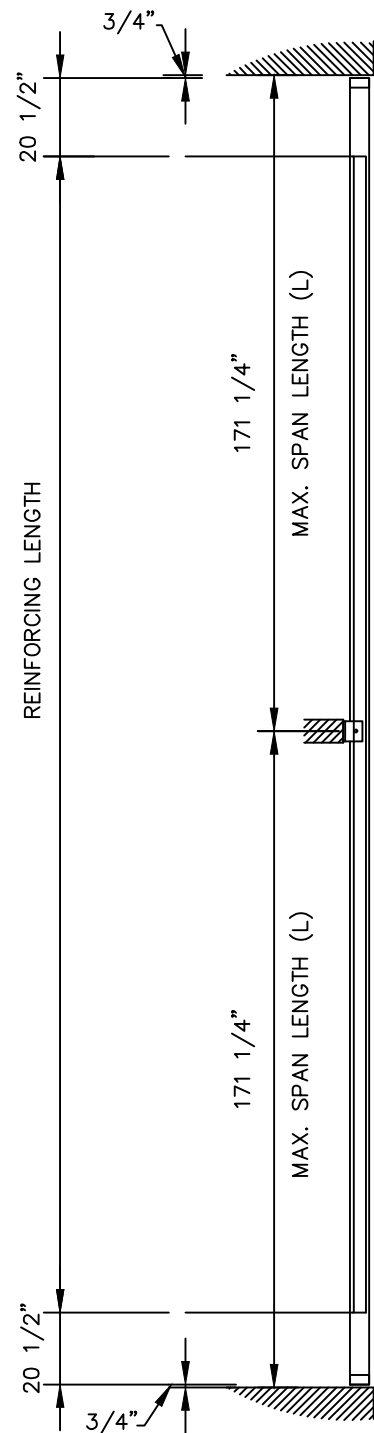
SEAL OF WILLIAM D. COOK
LICENSE NO. 43904
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WILLIAM D. COOK, P.E.
FLA P.E. #43904, FLA S.I. #2008

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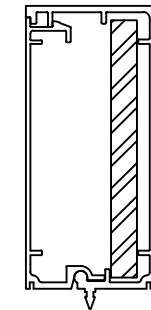
SECTION "A-A"

STACKED MULLION
W/ SPLICE



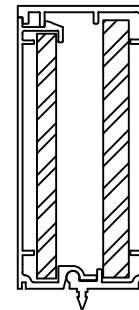
SECTION "B-B"

TWIN SPAN MULLION
NO SPLICE



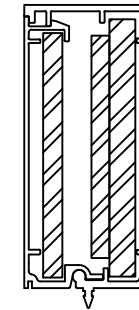
JAMB MULLION
TGF-201/202

REINFORCING: 1/2" X 5"
STEEL BAR (A36)
ALUMINUM: Ixx = 9.33 in⁴
Sxx = 3.39 in³
STEEL: Ixx = 5.21 in⁴
(NOT CONVERTED) Sxx = 2.08 in³



MULLION
TGF-201/202

REINFORCING: 1/2" X 5" &
3/8" X 4 3/4"
STEEL BAR (A36)
ALUMINUM: Ixx = 9.33 in⁴
Sxx = 3.39 in³
STEEL: Ixx = 8.56 in⁴
(NOT CONVERTED) Sxx = 3.49 in³



MULLION
TGF-201/202

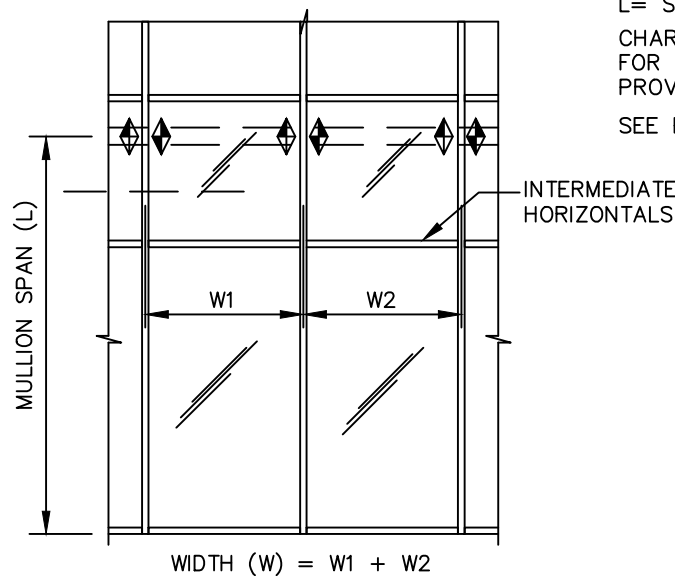
REINFORCING: 1/2" X 5" W/
1/4 X 3 1/2" (WELDED)
& 3/8" X 4 3/4"
STEEL BAR (A36)
ALUMINUM: Ixx = 9.33 in⁴
Sxx = 3.39 in³
STEEL: Ixx = 9.45 in⁴
(NOT CONVERTED) Sxx = 4.00 in³

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.



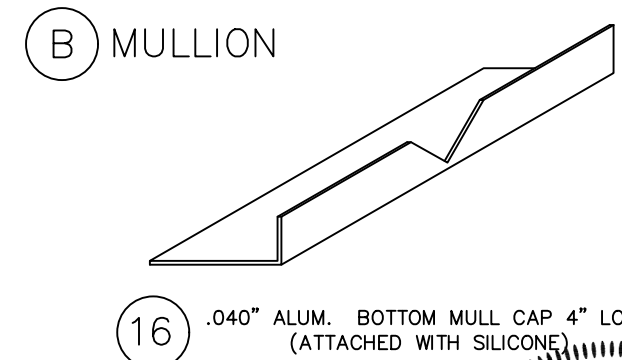
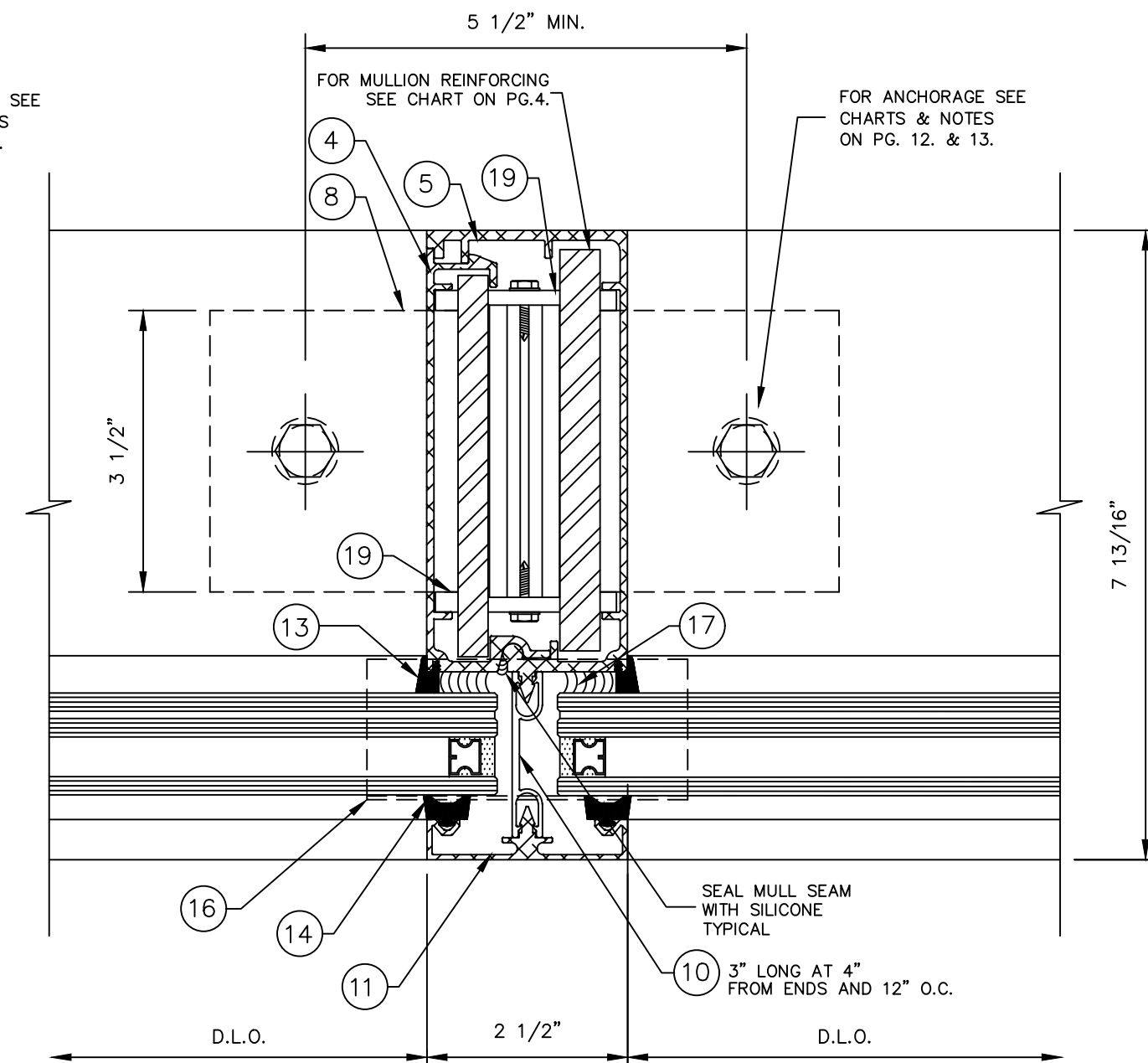
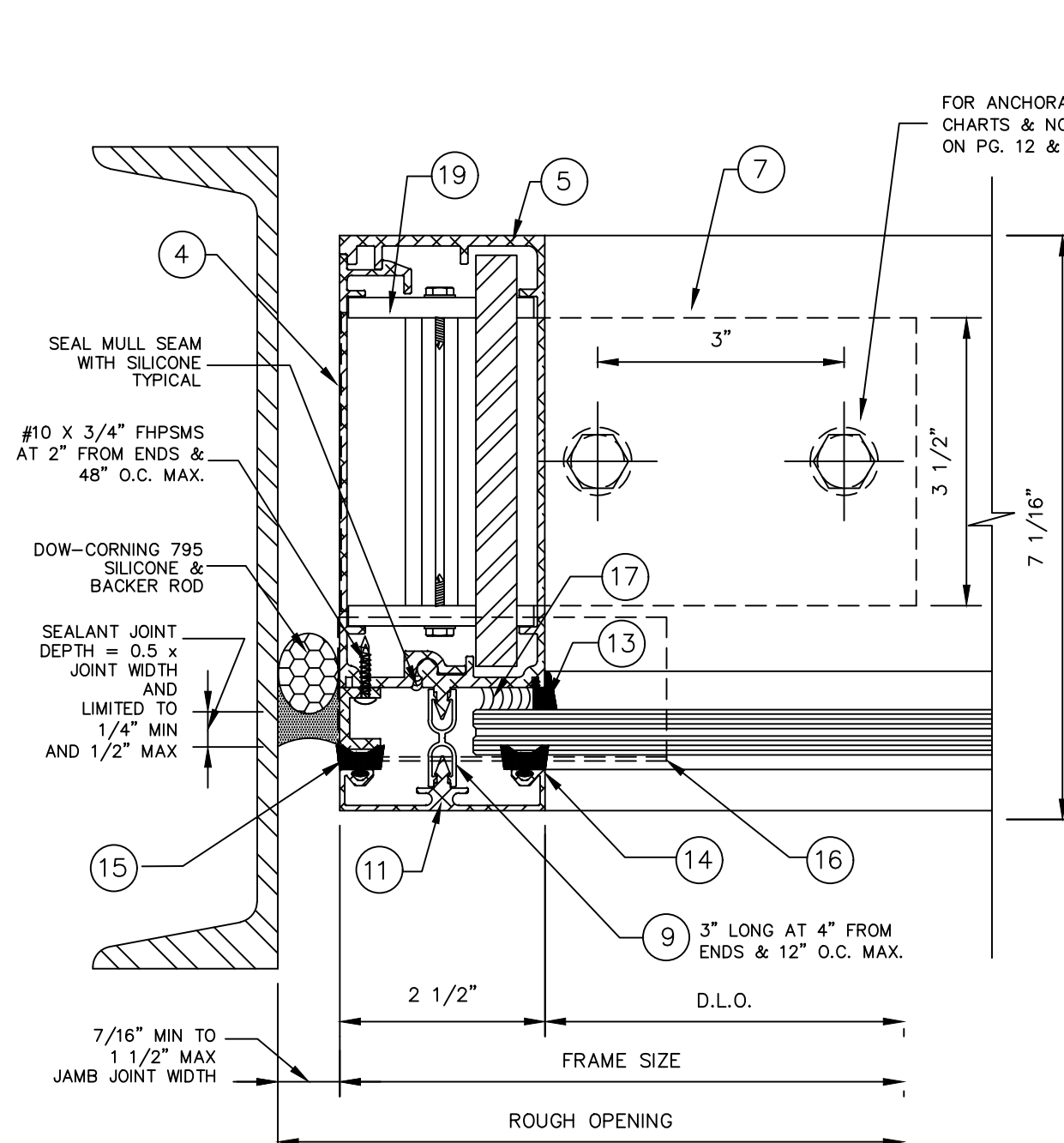
$$\text{WIDTH (W)} = W1 + W2$$

PROJECT NAME: TCW-250TS SMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SHT. 4 OF 15	SCALE: N.T.S.	DATE: 10/27/2020

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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

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ENGINEERING, INC.
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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

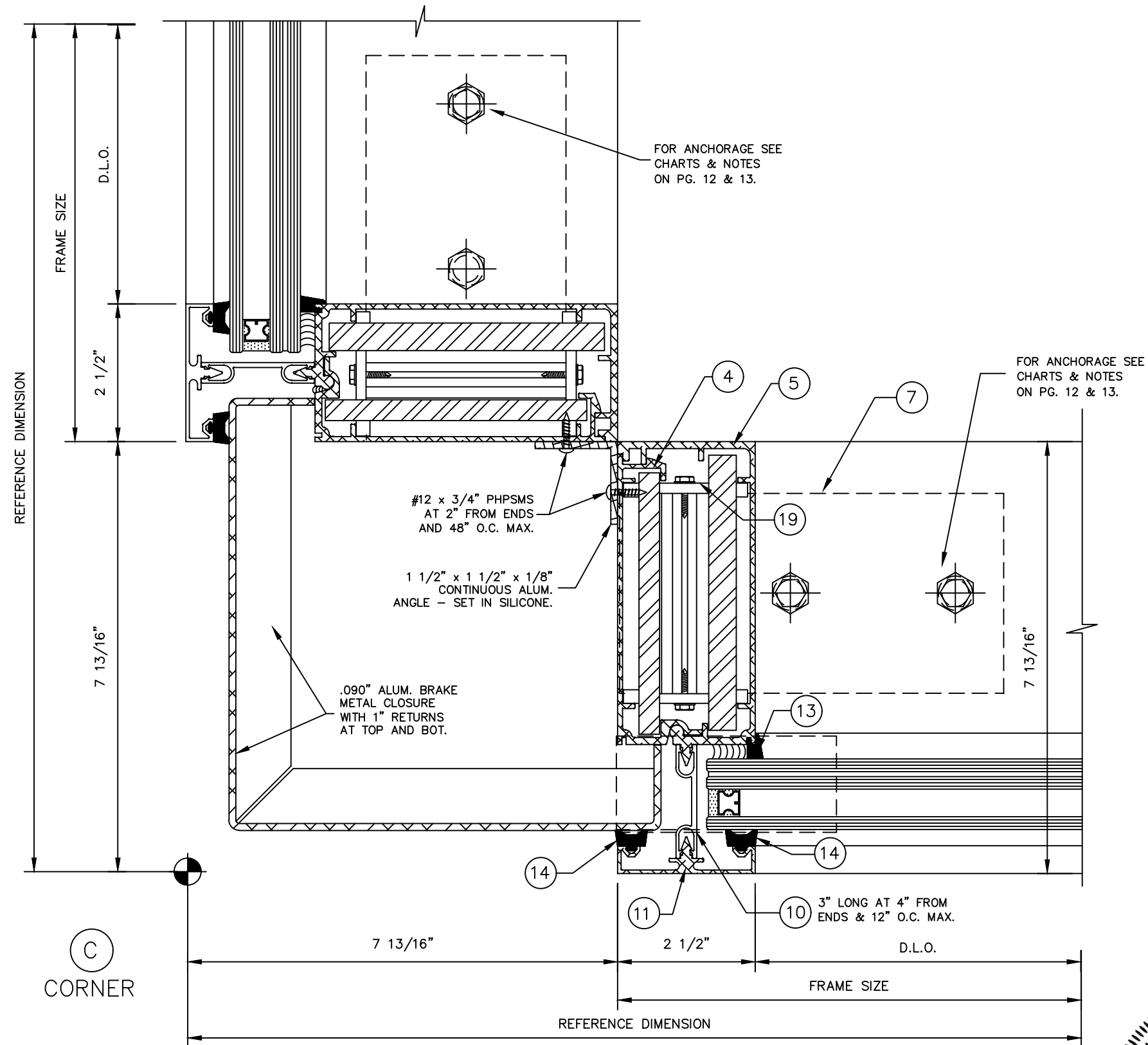
FRAME PERIMETER TO STRUCTURE
SEALED WITH DOW CORNING 795

PROJECT NAME: TCW-250TS SMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SHT. 5 OF 15	SCALE: N.T.S.	DATE: 10/27/2020

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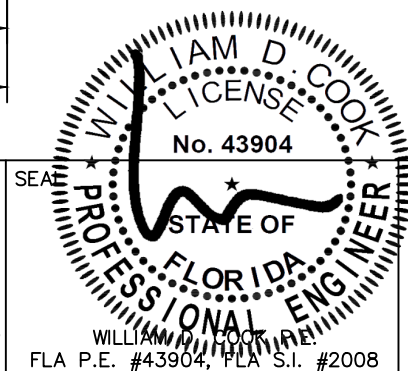
SEAL
WILLIAM D. COOK
LICENSE
No. 43904
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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PROJECT NAME: TCW-250TS SMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SHT. 6 OF 15	SCALE: N.T.S.	DATE: 10/27/2020


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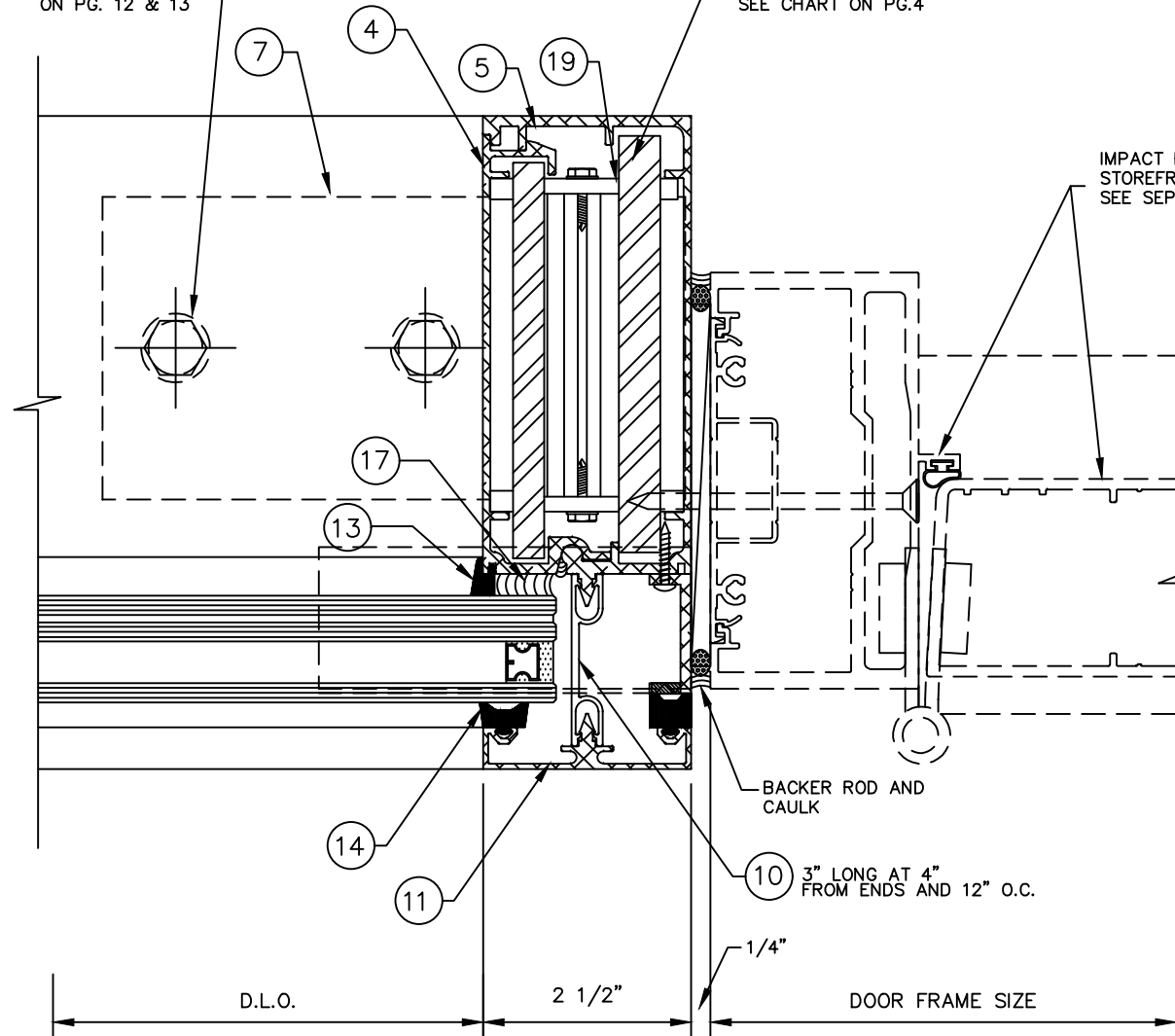


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 FAX: (954) 772-4634

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.



D MULLION
AT DOOR JAMB

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:

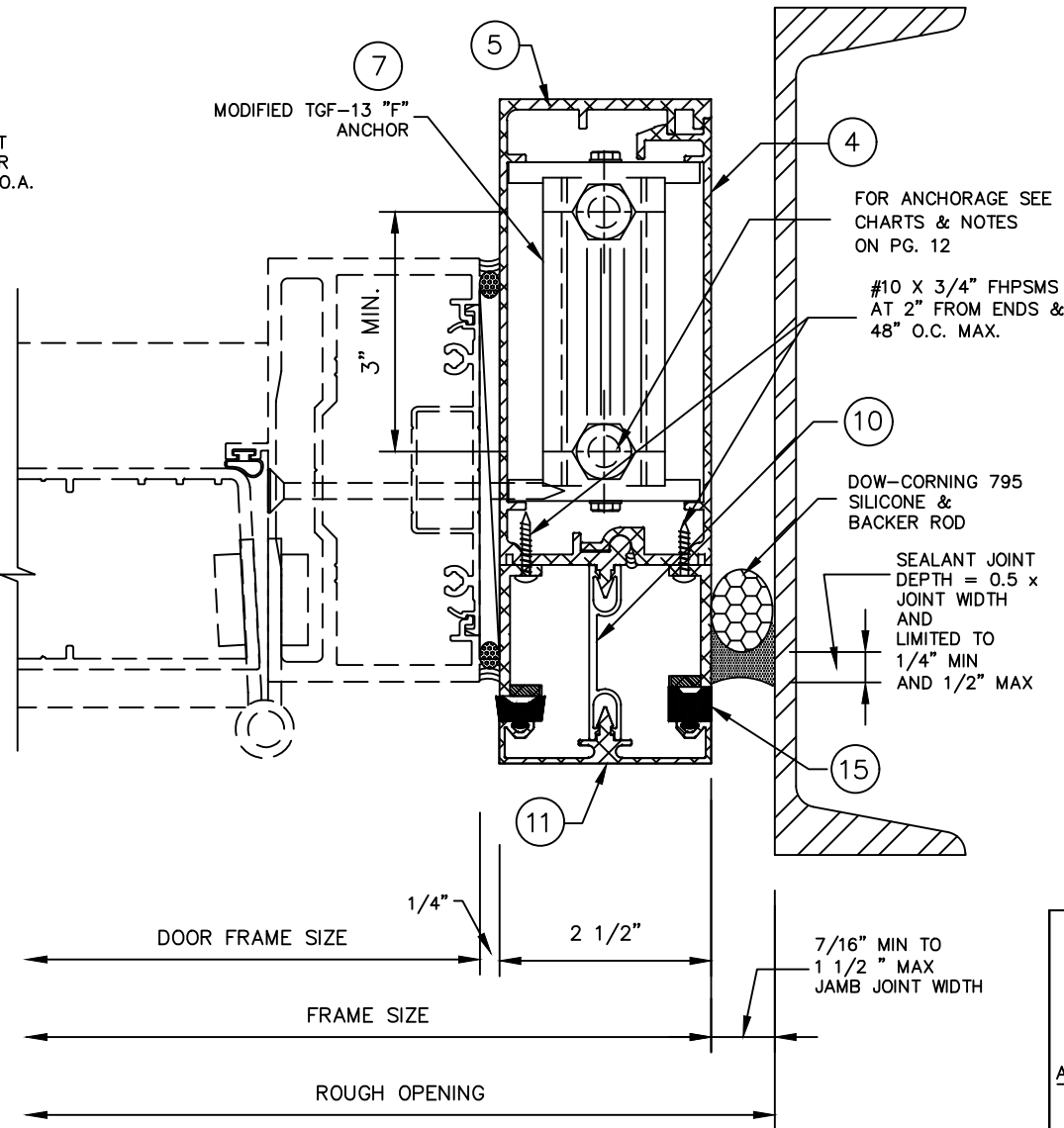
GLAZING BEAD AT FRAME SEALED
TO GLASS WITH DOW CORNING
983/995

FRAME PERIMETER TO STRUCTURE
SEALED WITH DOW CORNING 795

JAMB SEALANT NOTES:

PERIMETER SEALANT OPTIONS:
DOW-CORNING 795 SILICONE

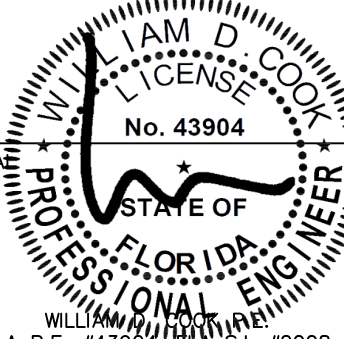
ALTERNATE SEALANTS AND JAMB GAPS:
TO BE APPROVED BY DESIGN
PROFESSIONAL OF RECORD AND
SEALANT MANUFACTURER



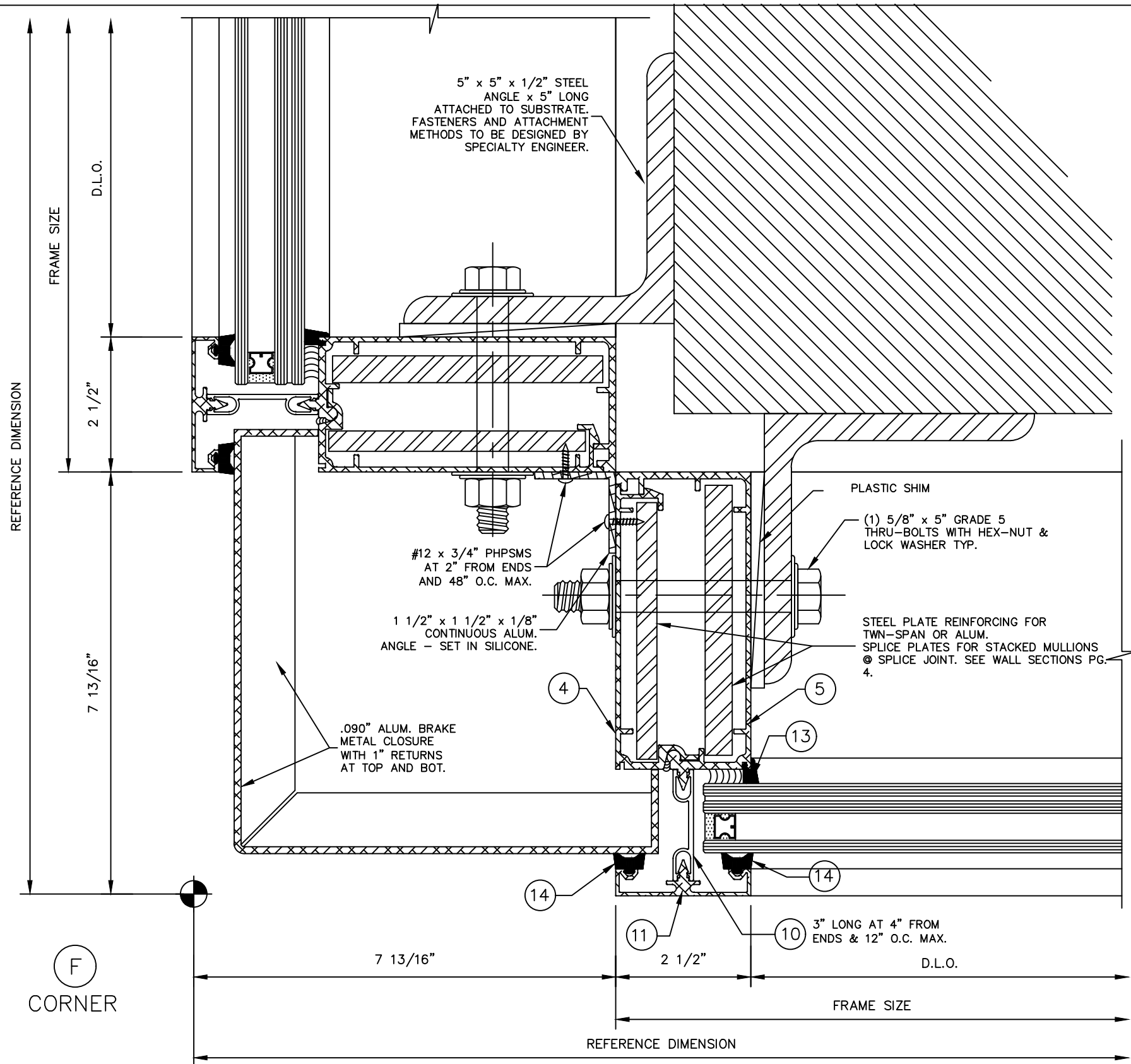
E JAMB MULLION
AT DOOR JAMB

PROJECT NAME: TCW-250TS SMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SCALE: N.T.S.	DATE: 10/27/2020	
SHT. 7 OF 15		


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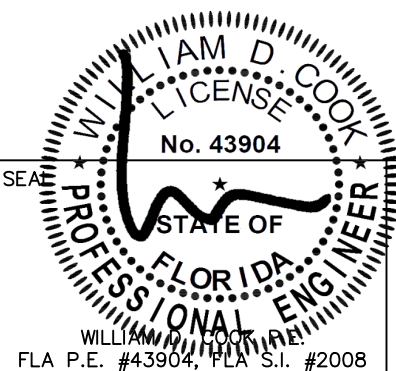

 WILLIAM D. COOK
 LICENSE No. 43904
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 WILLIAM D. COOK P.E.
 FLA P.E. #43904, FLA S.I. #2008

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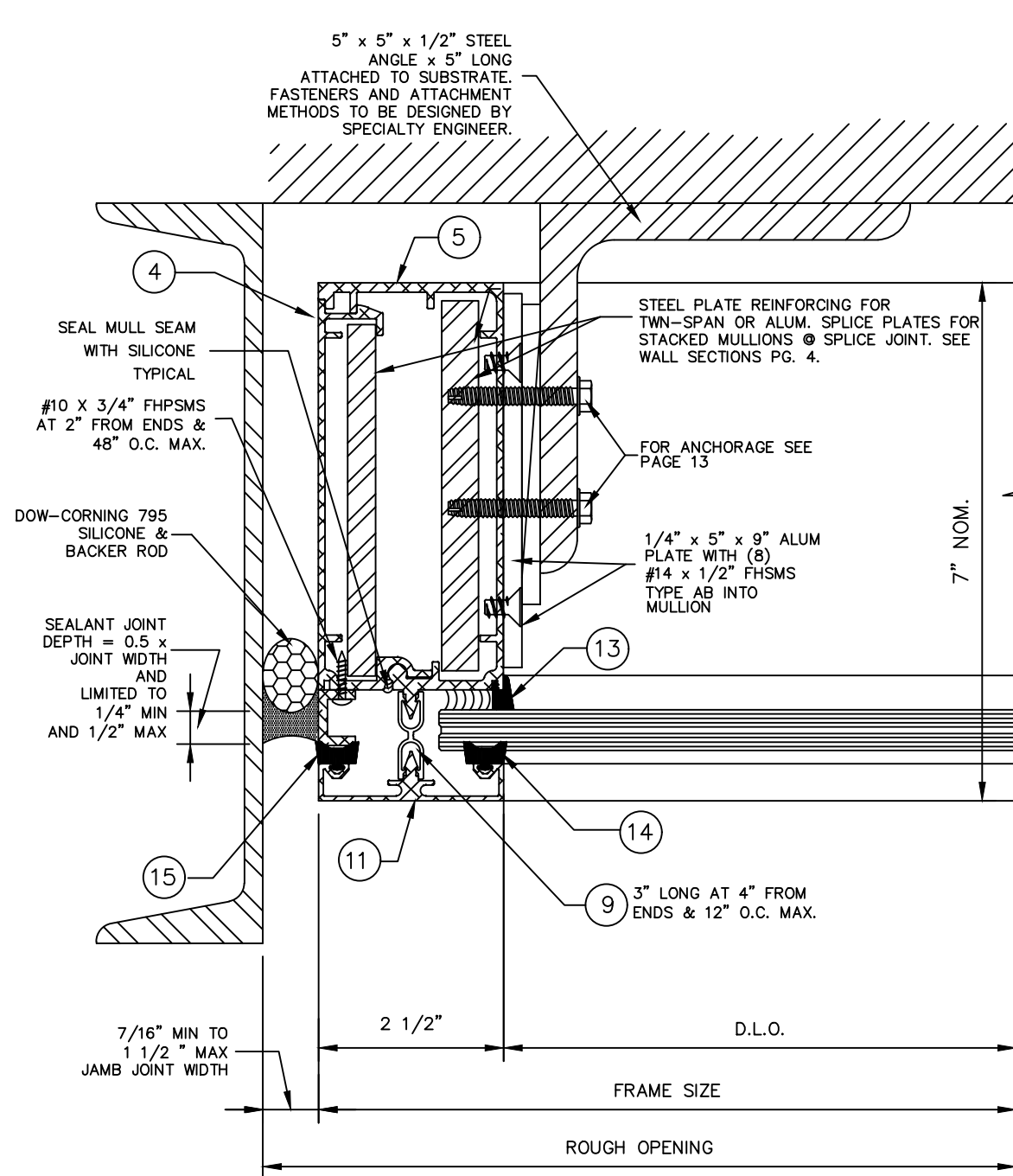


PROJECT NAME: TCW-250TS SMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SCALE: N.T.S.	DATE: 10/27/2020	
SHT. 8 OF 15		


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(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

PROJECT NAME:

TCW-250TS SMI (W/REINFORCING)

DRAWING NUMBER:

TCW-250TS.SMI.R

DRAW BY:

C.M.D.

SCALE:

N.T.S.

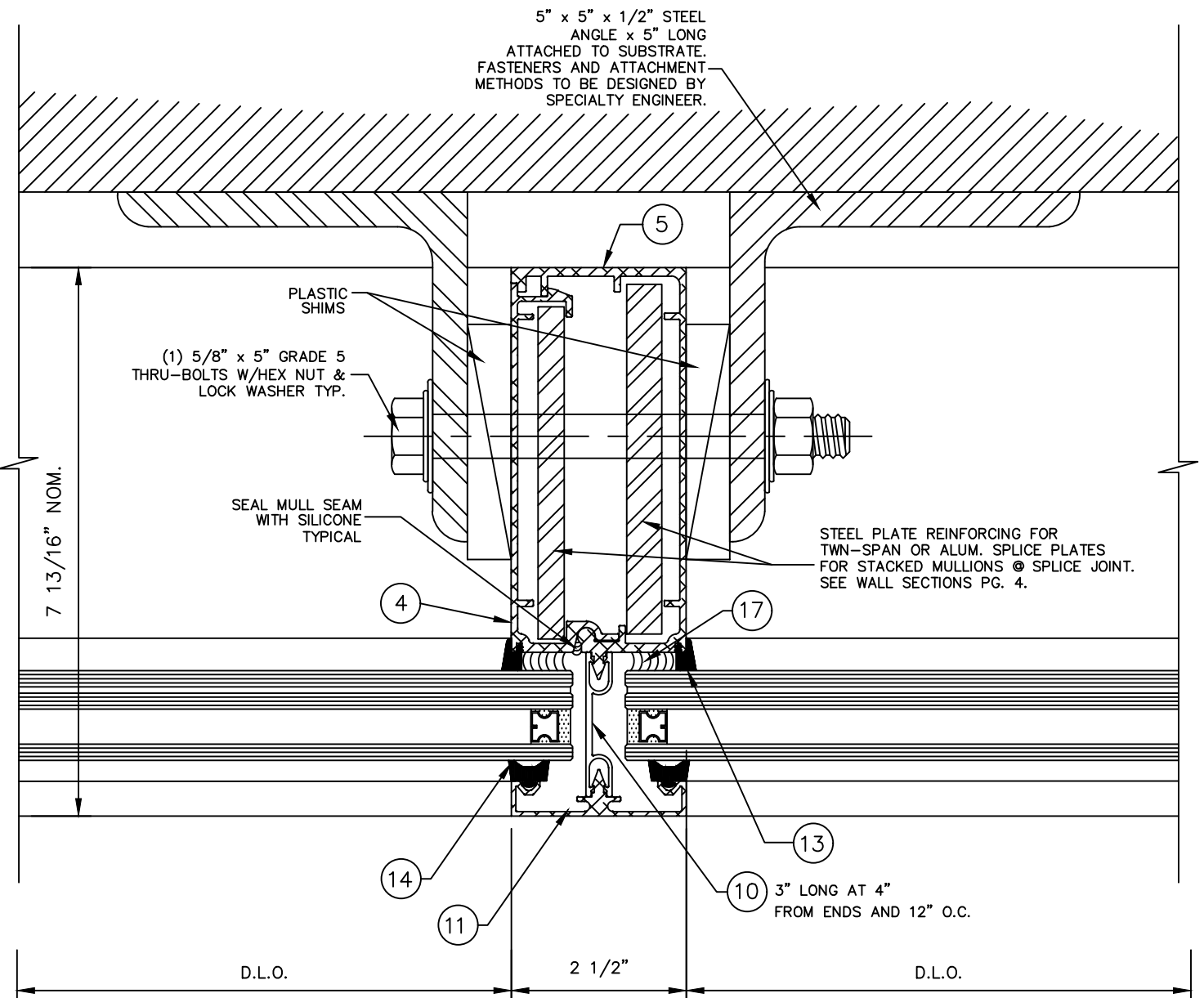
PRODUCT APPROVAL NO.:

FL17655.3

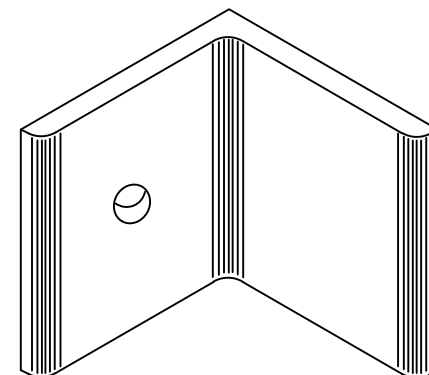
DATE:

10/27/2020

SHT. 9 OF 15



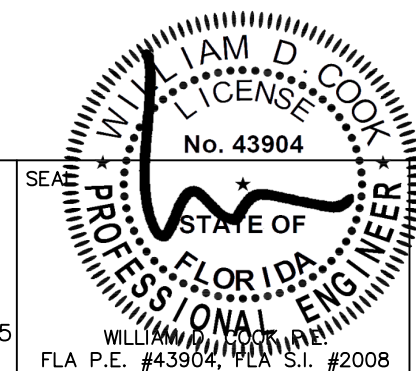
(H) MULLION



STEEL ANCHOR CLIP
ISOMETRIC VIEW

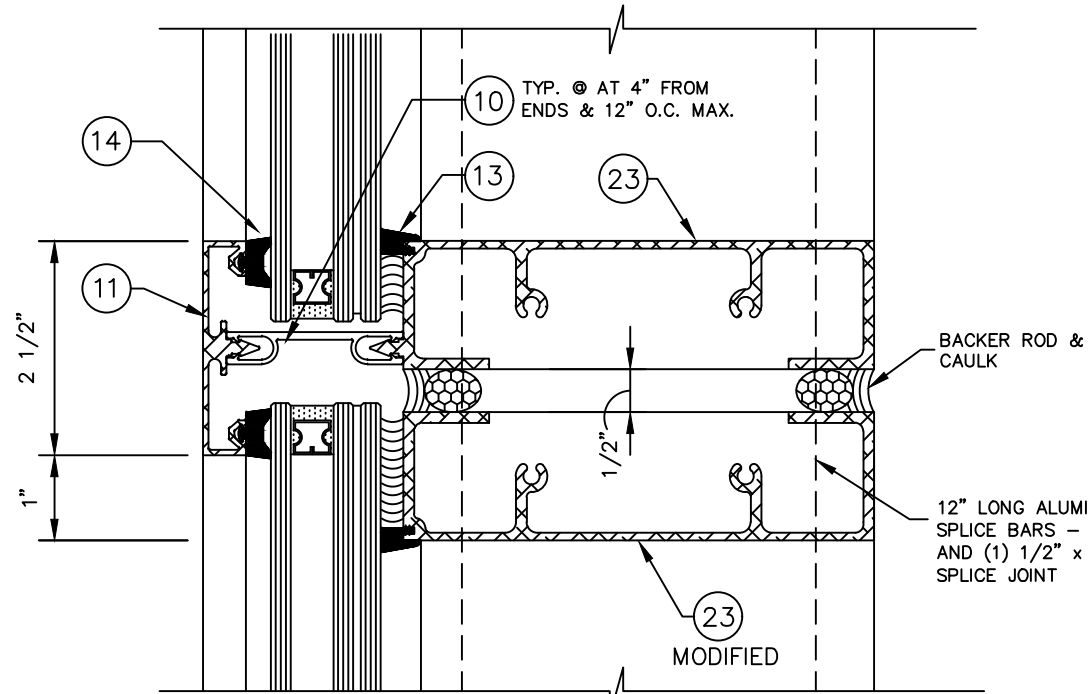
ALDORA
ALUMINUM AND GLASS PRODUCTS, INC.

11500 MIRAMAR PKWY. SUITE 300 MIRAMAR, FL. 33025
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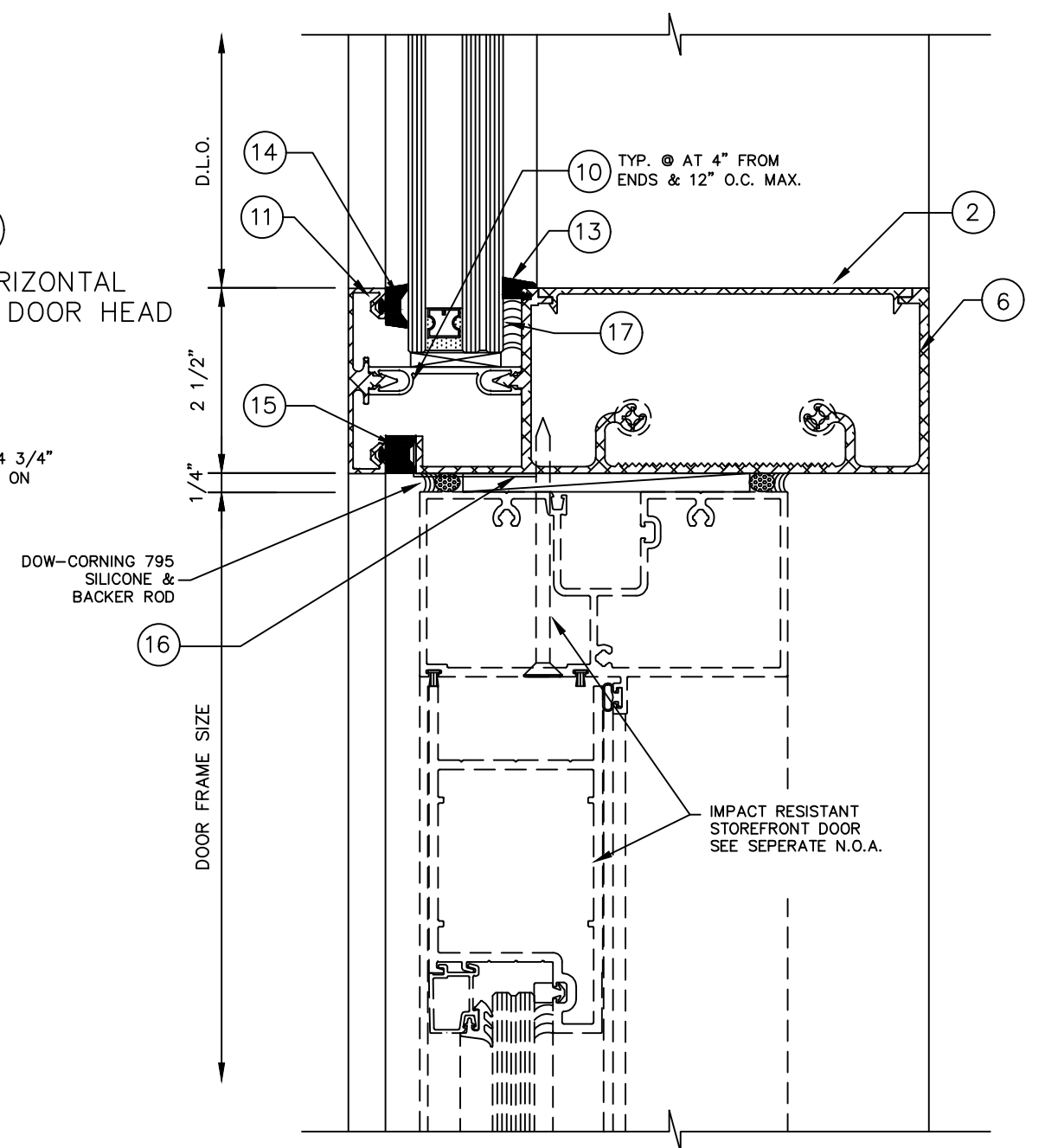


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ENGINEERING, INC.**
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FORT LAUDERDALE, FLORIDA 33309
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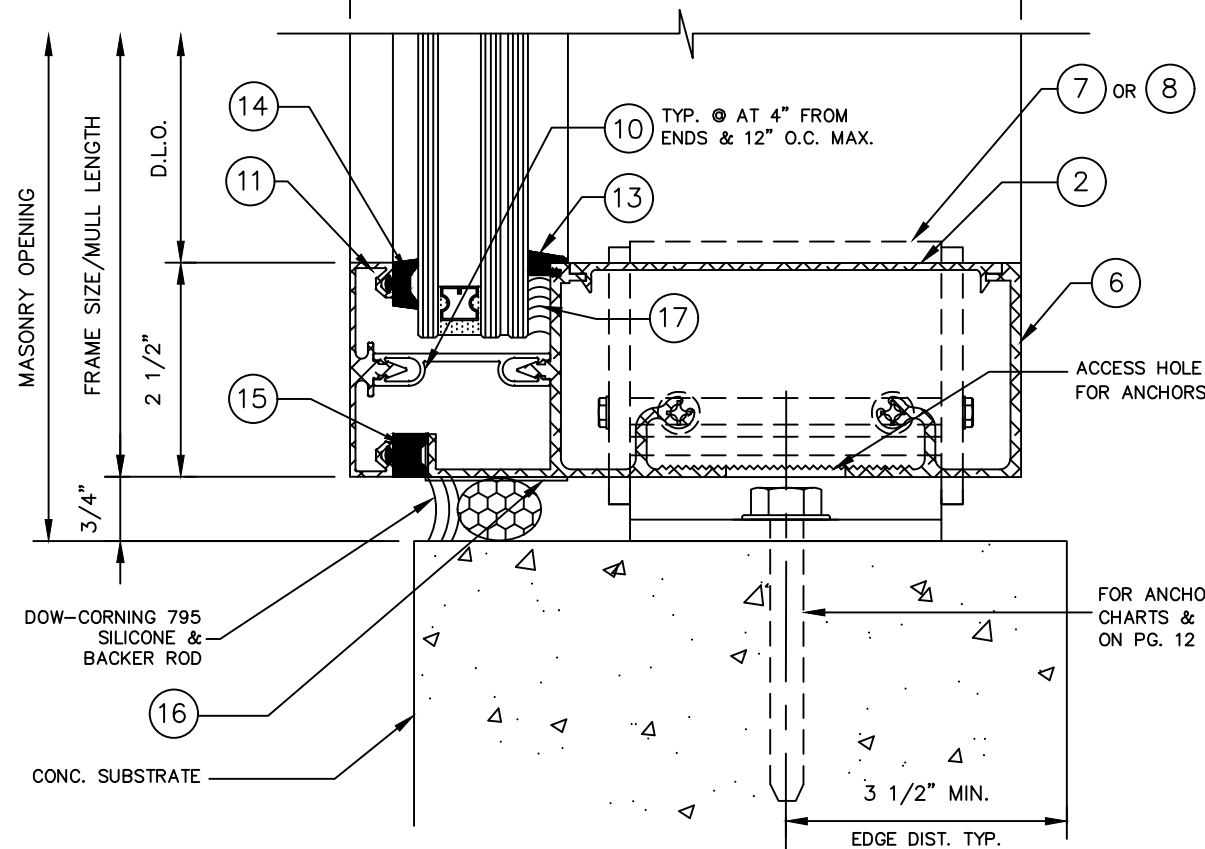
(J)
HORIZONTAL
AT STACK JT.



(L)
HORIZONTAL
AT DOOR HEAD

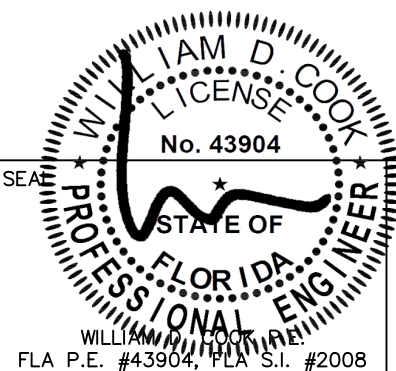


(K)
SILL



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

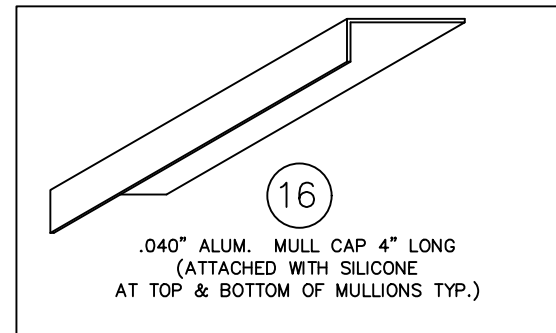
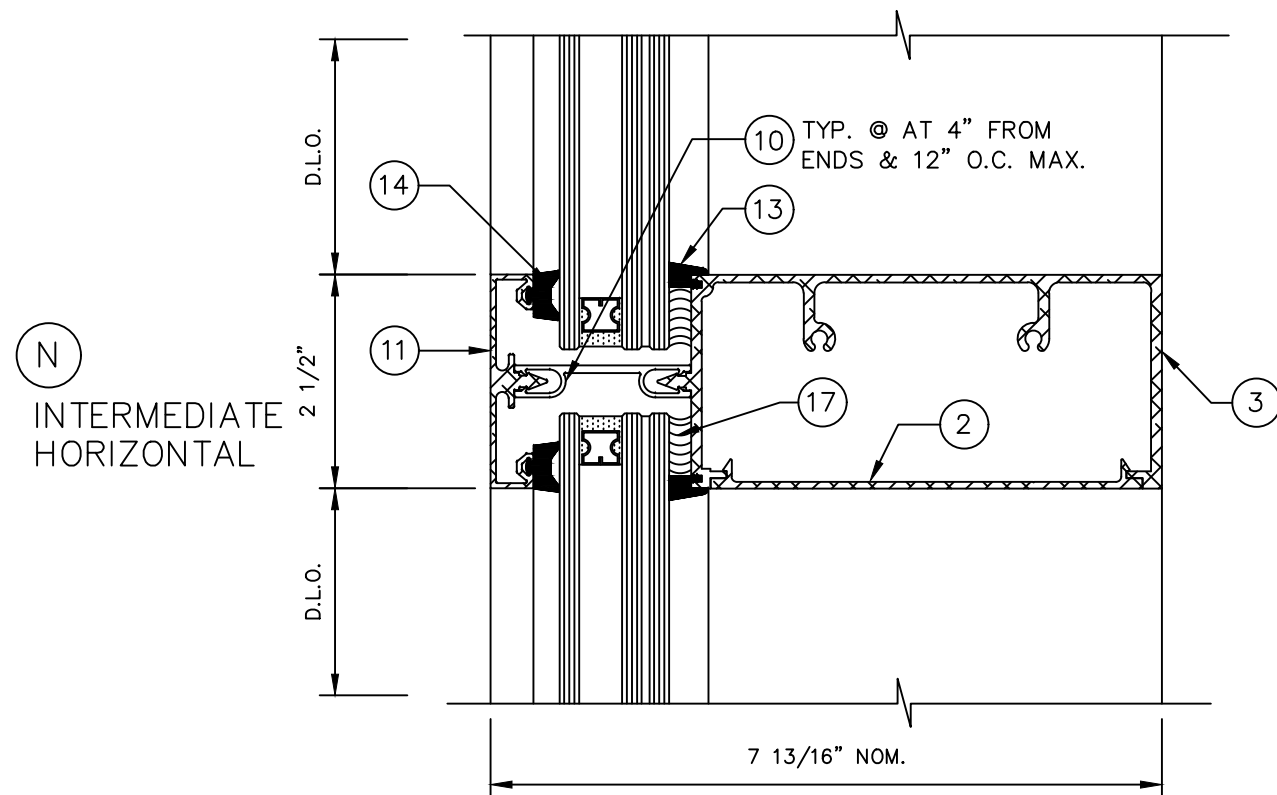
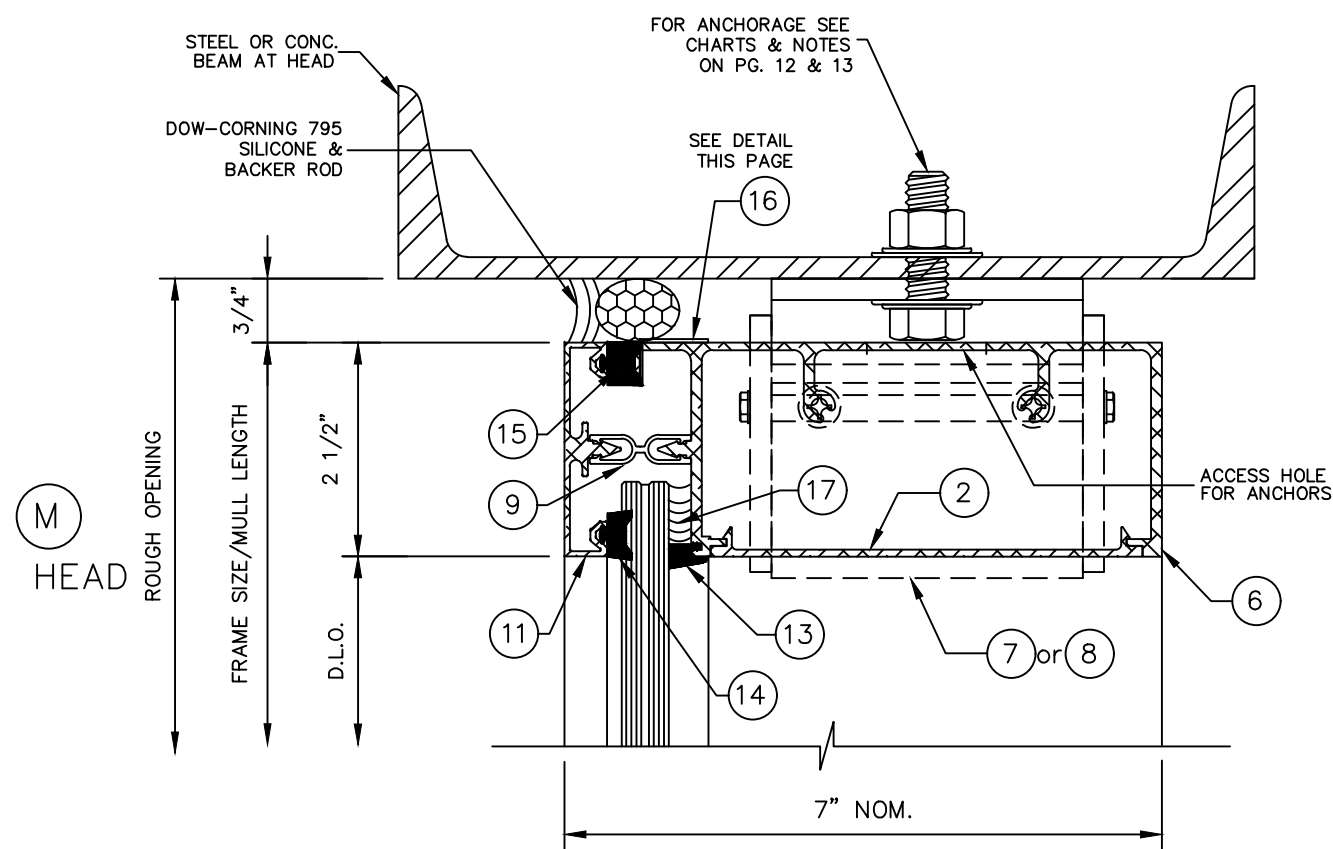
FOR ANCHORAGE SEE
CHARTS & NOTES
ON PG. 12 & 13



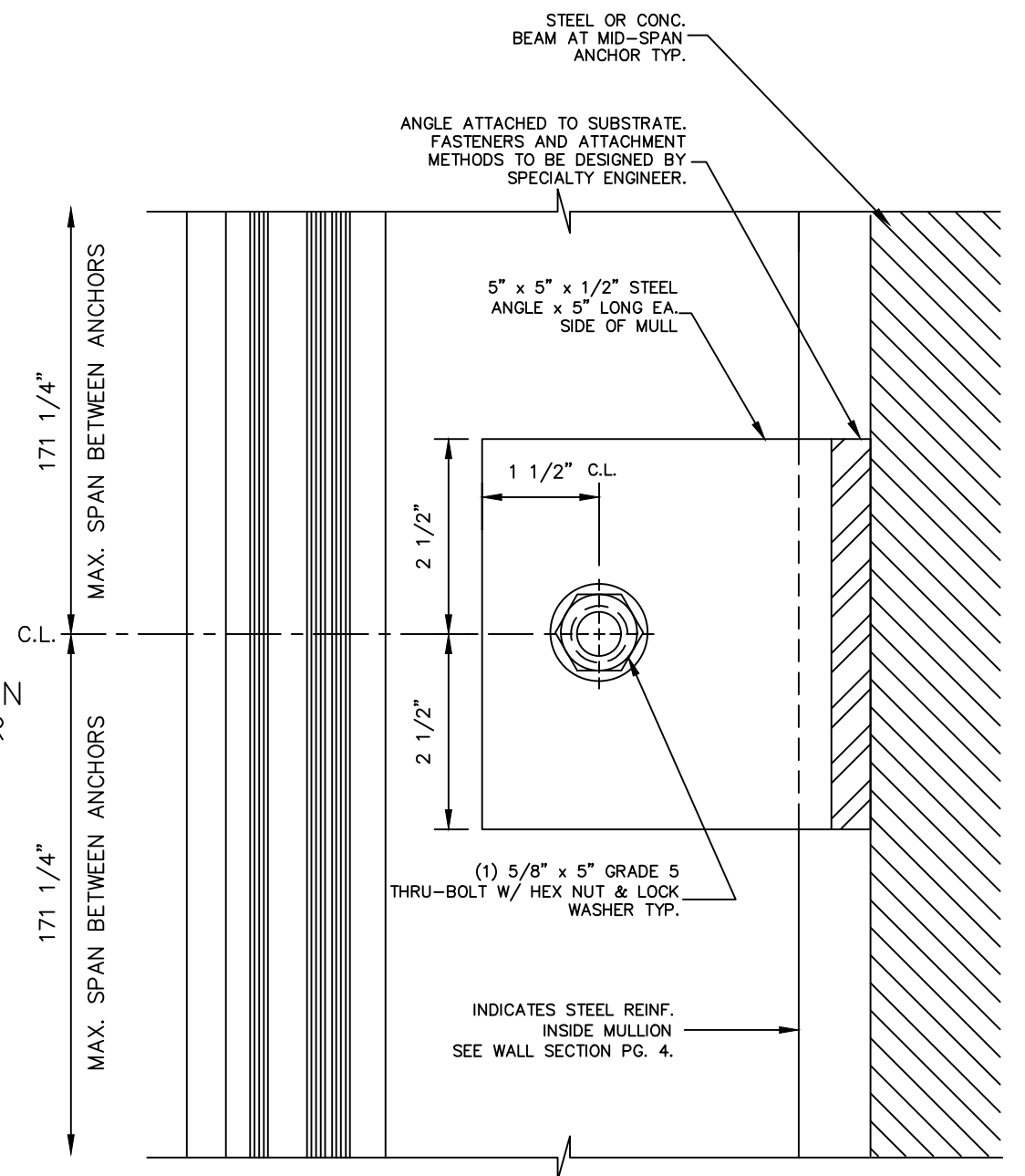
PROJECT NAME: TCW-250TS SMI (W/REINFORCING)		
DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SHT. 10 OF 15	SCALE: N.T.S.	DATE: 10/27/2020

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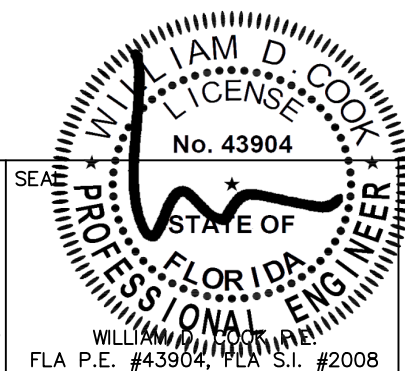


(P)
MID-SPAN
ANCHOR

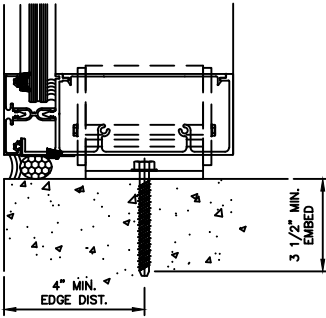
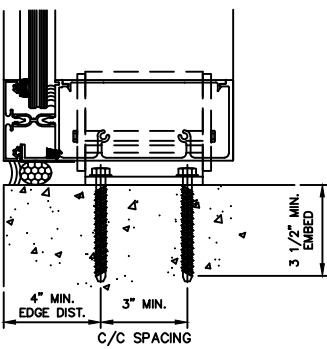
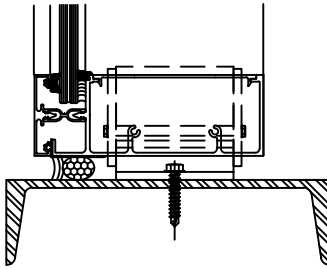


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DRAWING NUMBER: TCW-250TS.SMI.R	DRAW BY: C.M.D.	PRODUCT APPROVAL NO.: FL17655.3
SHT. 11 OF 15	SCALE: N.T.S.	DATE: 10/27/2020


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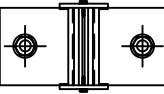
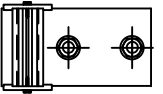
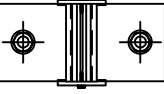
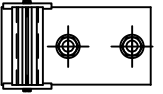
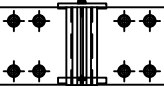
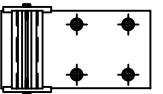


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MULLION ANCHOR OPTIONS		
ANCHOR TYPE SUBSTRATE	"F" OR "T" ANCHOR IN VERTICAL MULLION ENDS	MODIFIED "F" ANCHOR IN DOOR JAMB MULLION END
CONCRETE (3000 PSI MIN.)	"A2,B2" 	"J2" 
STEEL ASTM-A36 (1/8" THICK MIN.)	"C2,D8,G2,H4" 	

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.

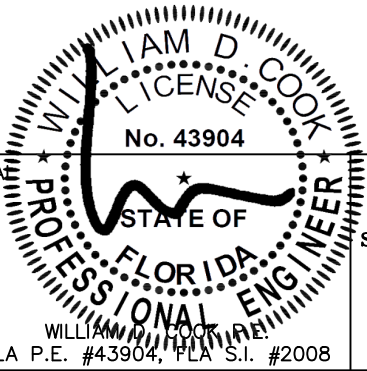
MULLION ANCHORAGE (HEAD & SILL)		JAMB ANCHORAGE (HEAD & SILL)	
	CONCRETE: A2- (2)3/8" DIA. "POWERS" WEDGE BOLTS PER EA. "T" ANCHOR (1 EACH SIDE OF MULLION) 3 1/2" MIN. EMBED 4" MIN. EDGE DIST. 5 1/2" MIN. C.C. SPACING		CONCRETE: B2-(2)3/8" DIA. "POWERS" WEDGE BOLTS PER EA. "F" ANCHOR 3 1/2" MIN. EMBED 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 "T" 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 SMI (W/REINFORCING)	
DRAWING NUMBER:	TCW-250TS.SMI.R	DRAW BY: C.M.D.
SCALE:	N.T.S.	PRODUCT APPROVAL NO.: FL17655.3
SHT. 12 OF 15		DATE: 10/27/2020



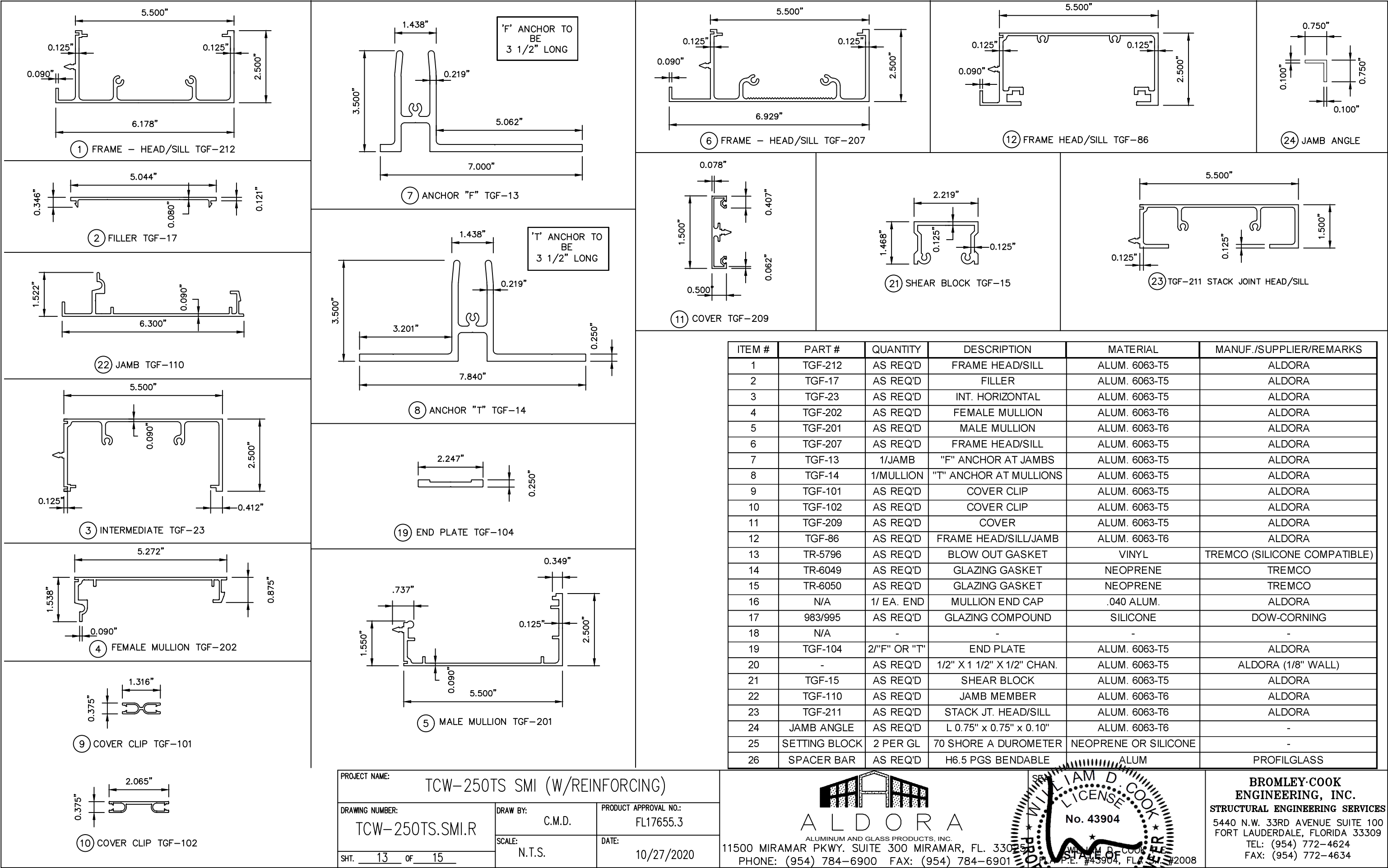
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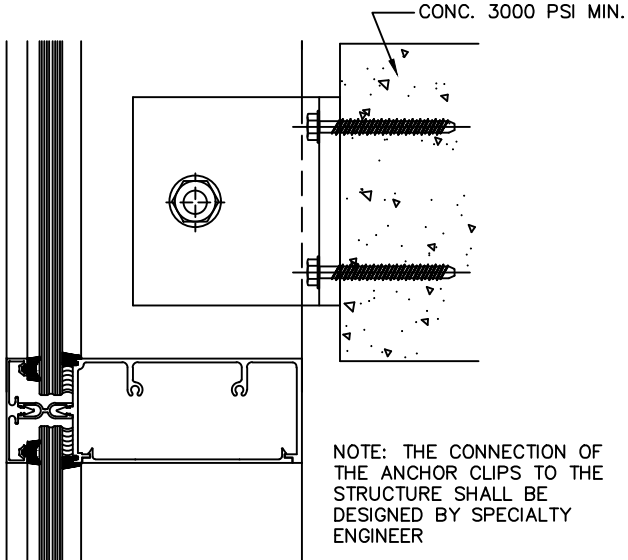
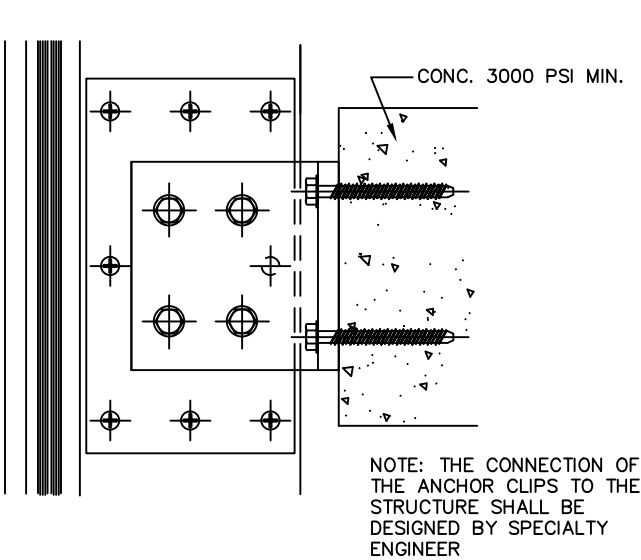
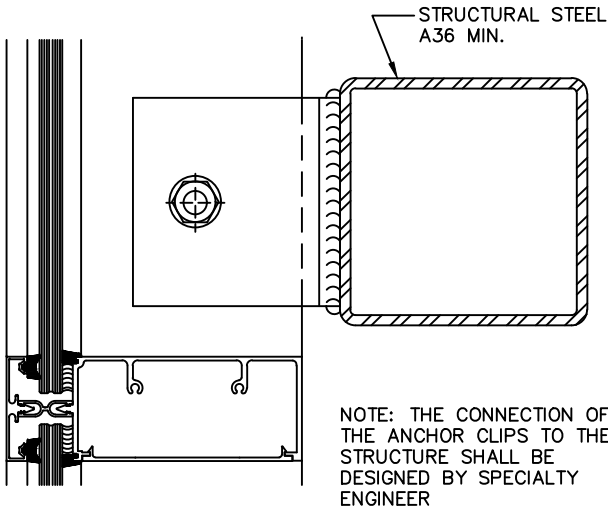
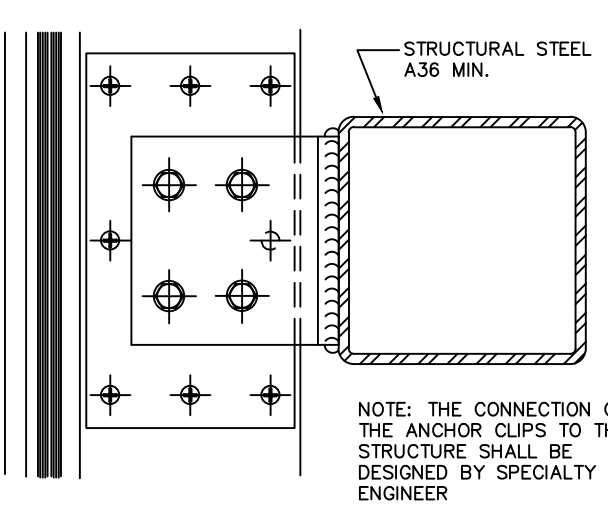
SEAL



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

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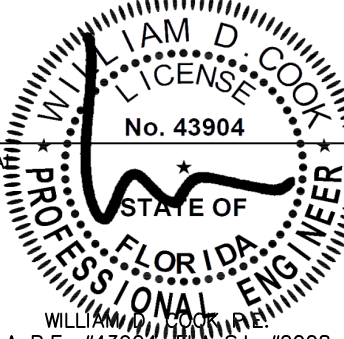
INTERMEDIATE ANCHORAGE	
TWIN SPAN MID-SPAN MULLION ANCHOR CLIP  NOTE: THE CONNECTION OF THE ANCHOR CLIPS TO THE STRUCTURE SHALL BE DESIGNED BY SPECIALTY ENGINEER	TWIN SPAN MID-SPAN JAMB ANCHOR CLIP  NOTE: THE CONNECTION OF THE ANCHOR CLIPS TO THE STRUCTURE SHALL BE DESIGNED BY SPECIALTY ENGINEER
 NOTE: THE CONNECTION OF THE ANCHOR CLIPS TO THE STRUCTURE SHALL BE DESIGNED BY SPECIALTY ENGINEER	 NOTE: THE CONNECTION OF THE ANCHOR CLIPS TO THE STRUCTURE SHALL BE DESIGNED BY SPECIALTY ENGINEER
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)

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SHT. 14 OF 15		



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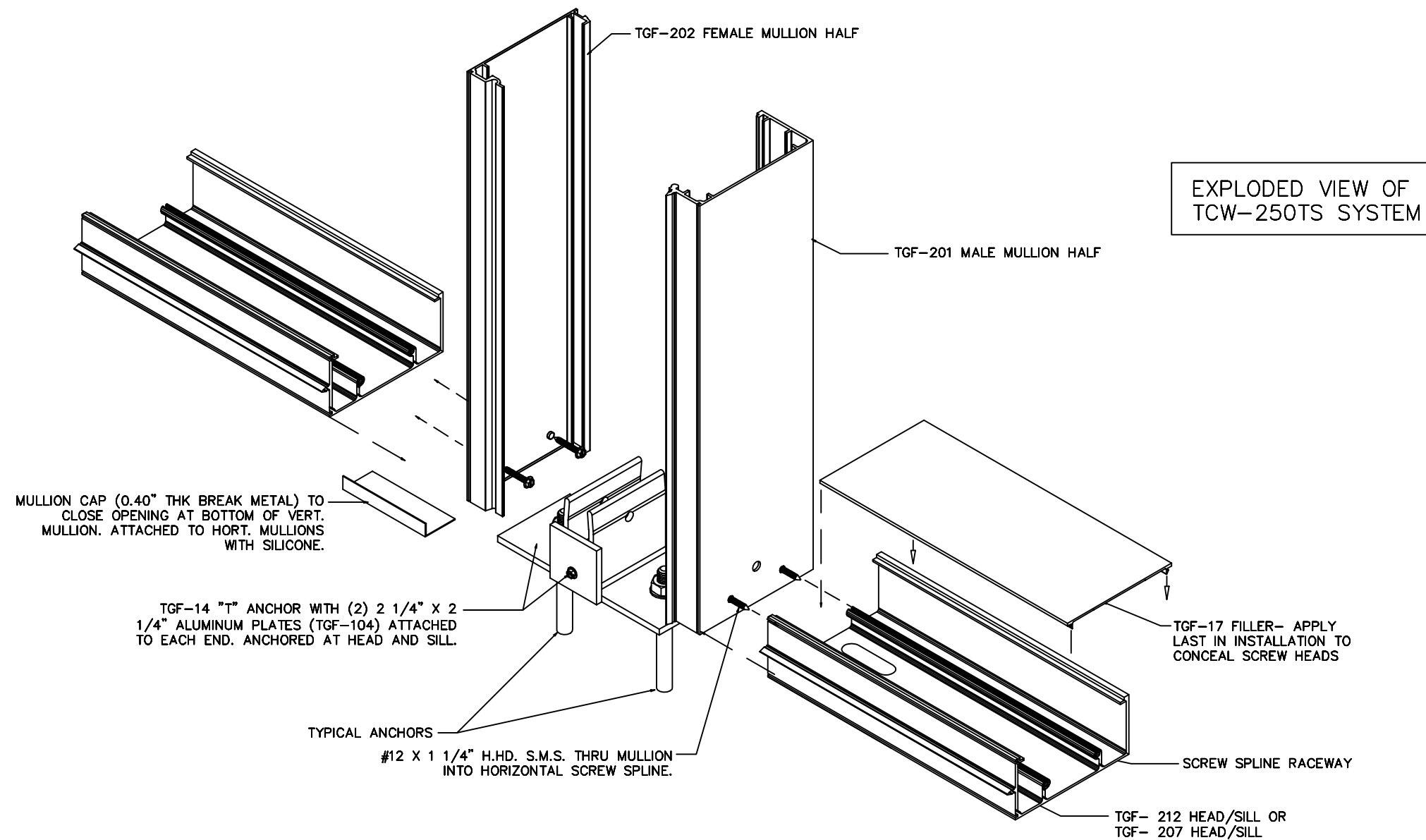
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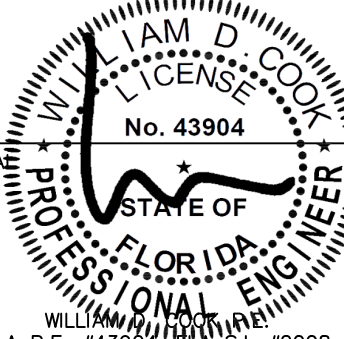
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