

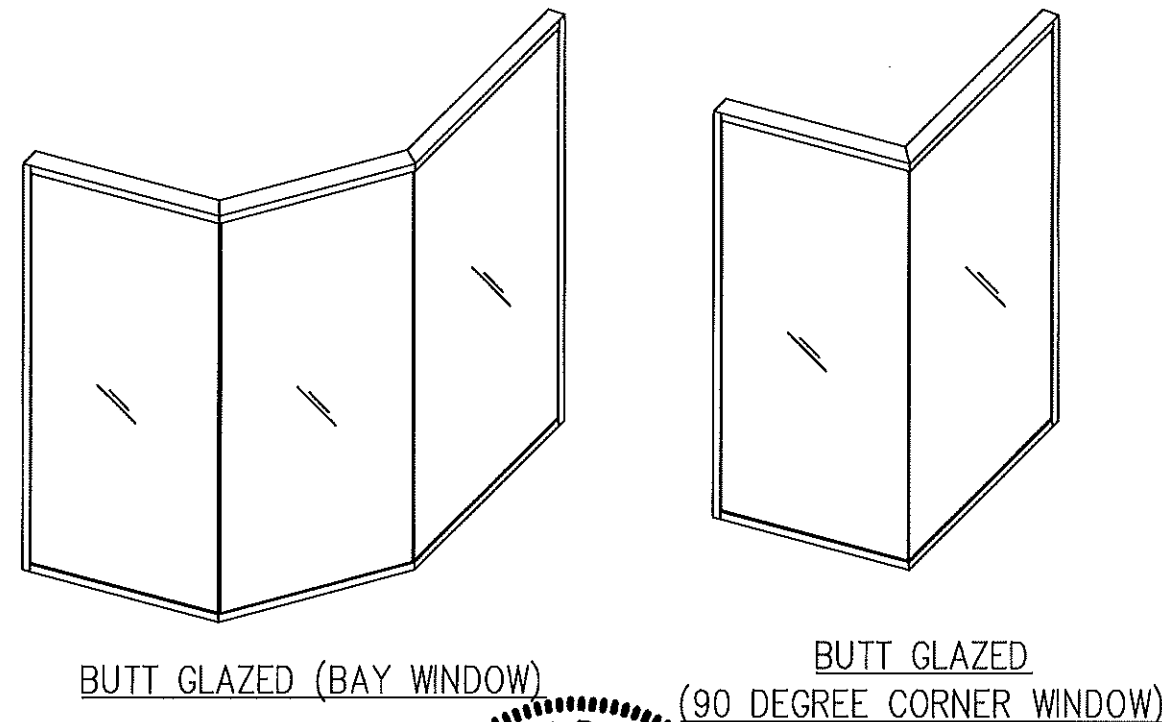
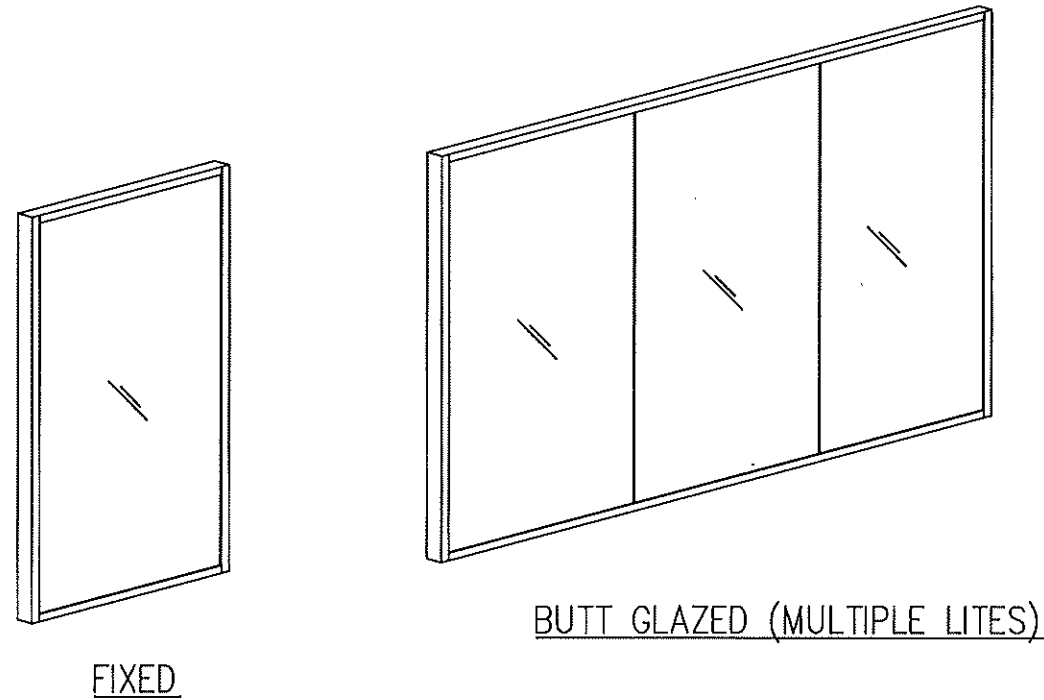
SERIES "FS300 MAXIMUM VIEW" FIXED WINDOW SYSTEM WITHOUT MULLIONS - LARGE MISSILE IMPACT (HVHZ)

GENERAL NOTES:

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC 2020) 7th EDITION (HVHZ).
2. GLAZING SYSTEM TESTED FOR LARGE MISSILE IMPACT AS PER MIAMI-DADE COUNTY PROTOCOLS (TAS 201, 202 & 203)
HURRICANE WIND-BORNE DEBRIS PROTECTION IS NOT REQUIRED.
3. THIS SYSTEM MAY BE USED IN CONJUNCTION WITH TESTED AND APPROVED ENTRANCE DOORS.
4. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
5. BUCKS ARE BY OTHERS AND MUST BE ANCHORED PROPERLY TO THE STRUCTURE. BUCKS AND BUCKING SHALL BE DESIGNED BY SPECIALTY ENGINEER OR E.O.R.
6. ANCHORS SHALL BE AS LISTED IN CHARTS AND SPACED AS DETAILED.
7. FRAME ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO AS PER APPROVED FRAME ANCHOR CHARTS ON PAGES 5, 6, 7 & 9.
8. ANY SUBSTRATES, BUCKING OR ANCHOR CONDITIONS WHICH VARY FROM THIS APPROVAL SHALL BE QUALIFIED BY A SPECIALTY ENGINEER OR E.O.R.
9. ALL ALUMINUM FRAMES SHALL BE ISOLATED FROM STEEL AND CONCRETE WITH HIGH STRENGTH STRUCTURAL PLASTIC SHIMS OR AS PER FBC.

INSTRUCTIONS:

- STEP 1 - DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE. USING APPLICABLE ASCE 7 STANDARDS FOR COMPONENTS AND CLADDING.
- STEP 3 - CHECK DESIGN PRESSURE CAPACITY FOR DESIRED GLASS TYPE/SIZE USING CHARTS ON SHEET 4. THE DESIGN PRESSURE ON THE CHART SHOULD BE EQUAL TO OR EXCEED THE PROJECT DESIGN PRESSURE.
- STEP 4 - SELECT ANCHOR OPTION(S) BASED ON SUBSTRATES FROM "APPROVED FRAME ANCHORS" SCHEDULES ON PAGES 5, 6, 7 & 9.

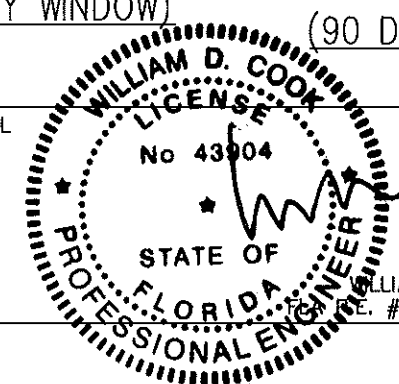


PROJECT NAME: FS300 MAXIMUM VIEW FIXED WINDOW SYSTEM - L.M.I.		
DRAWING NUMBER: FS300MV-FWS.LMI	DRAW BY: M.G.	PRODUCT APPROVAL NO.: FL 27051.1
SHT. 1 OF 13	SCALE:	DATE: 04/15/2021



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FAX: 954-688-9816

SEAL

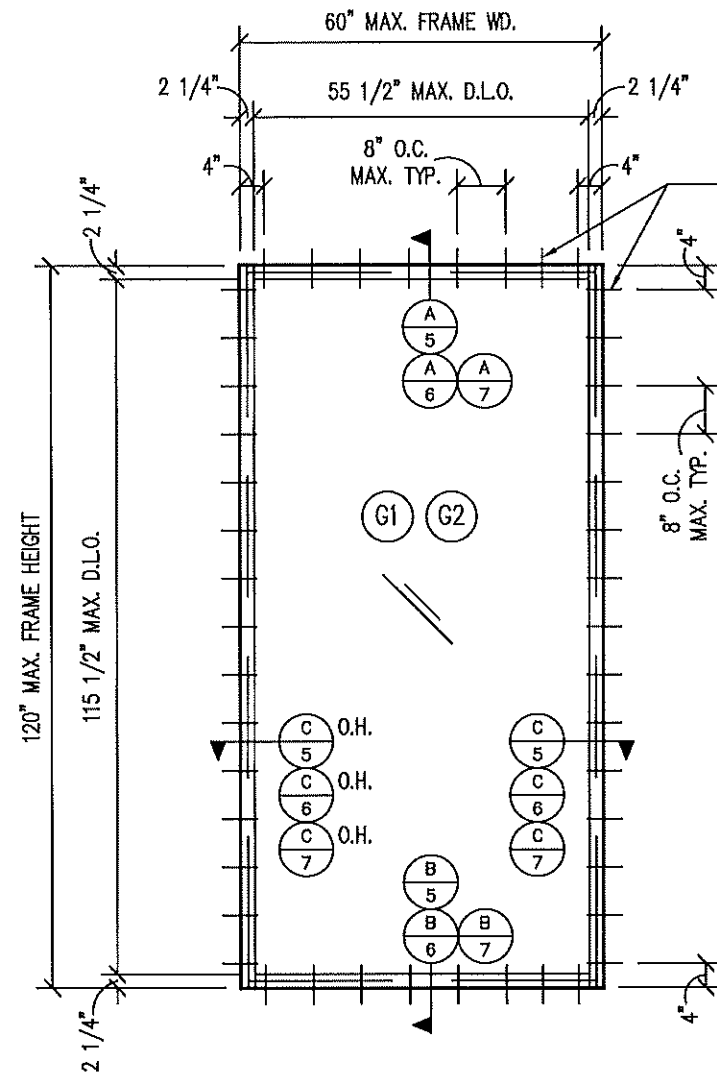


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ALUMINUM FIXED WINDOW SYSTEM WITH BUTT JOINT GLASS (NO MULLIONS)



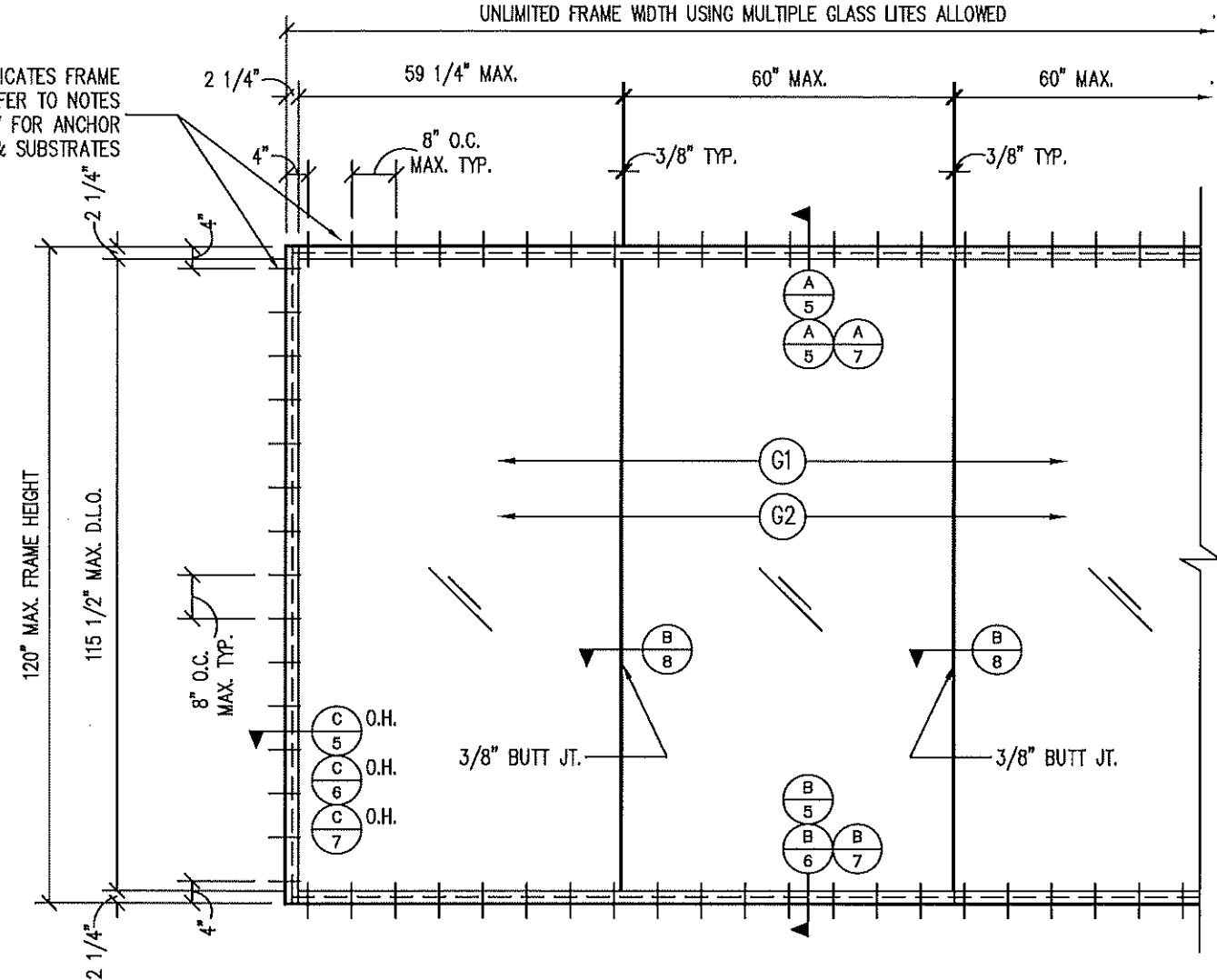
E1 WINDOW ELEVATION
2 (VIEWED FROM EXTERIOR)



P1 PLAN VIEW
2

INDICATES FRAME ANCHORS REFER TO NOTES ON PAGES 5, 6 & 7 FOR ANCHOR TYPES, EMBEDMENT & SUBSTRATES

INDICATES FRAME ANCHORS REFER TO NOTES ON PAGE 5, 6 & 7 FOR ANCHOR TYPES, EMBEDMENT & SUBSTRATES



E2 WINDOW ELEVATION
2 (VIEWED FROM EXTERIOR)



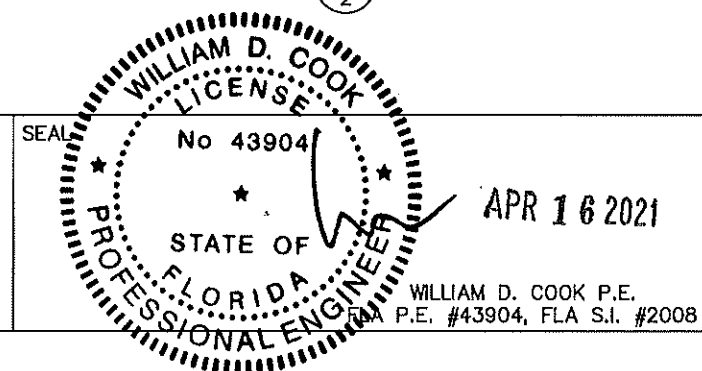
P2 PLAN VIEW
2

NOTE:
FRAMES MAY BE INSTALLED SIDE BY SIDE OR STACKED VERTICALLY USING MIAMI-DADE COUNTY OR STATE OF FLORIDA APPROVED VERTICAL OR HORIZONTAL MULLION TUBES.
STEEL COLUMNS OR BEAMS DESIGNED BY SPECIALTY ENGINEER OR ENGINEER OF RECORD MAY ALSO BE USED BETWEEN FRAMES. REFER TO "OPTIONAL" DETAILS ON PAGE 8.

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SHT. 2 of 13		



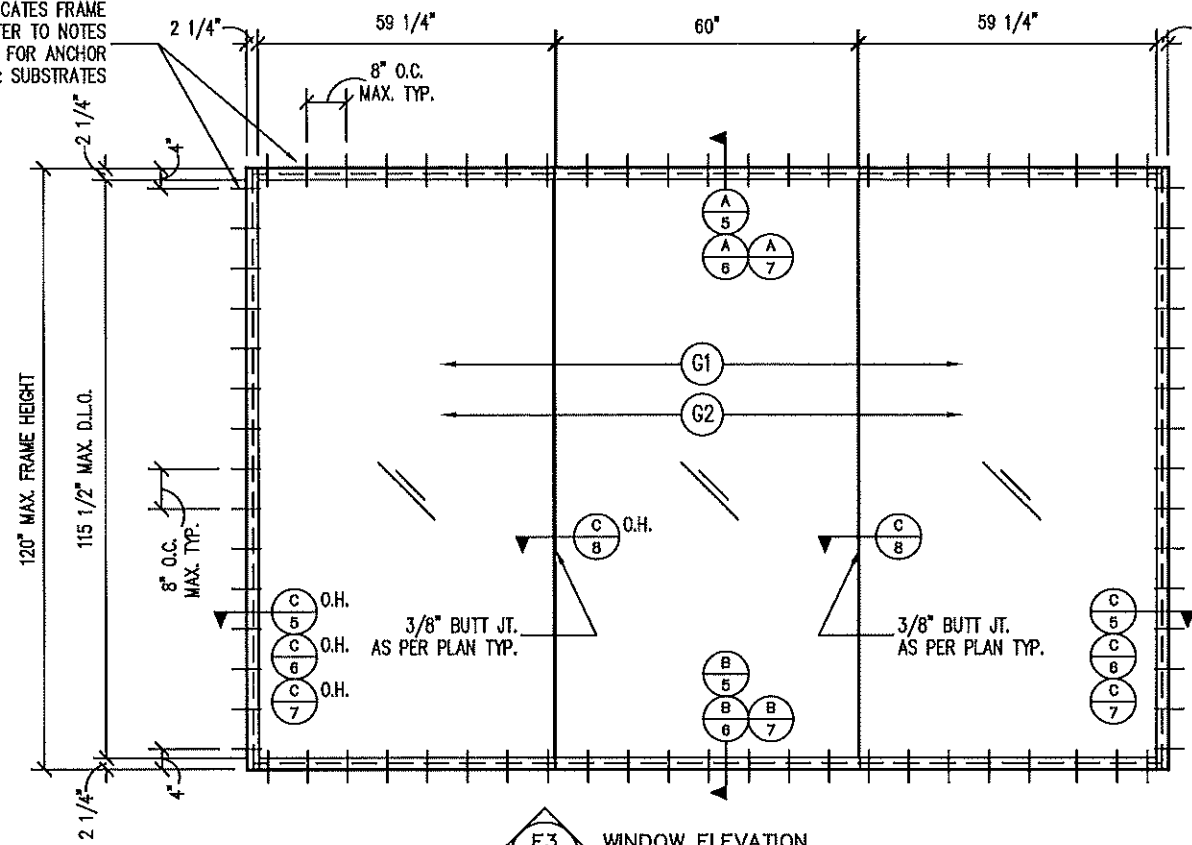
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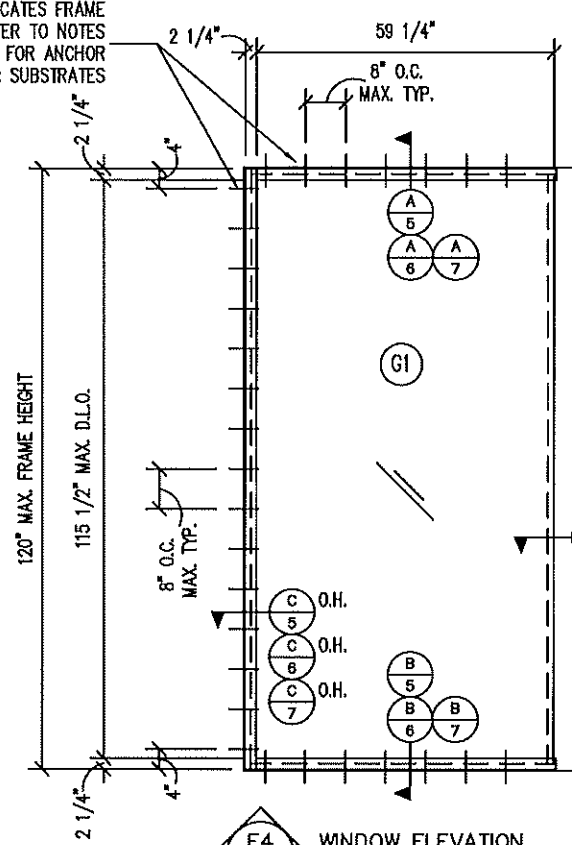
ALUMINUM FIXED WINDOW SYSTEM WITH BUTT JOINT GLASS (NO MULLIONS) & MITERED HEAD & SILL

INDICATES FRAME ANCHORS REFER TO NOTES ON PAGE 5, 6 & 8 FOR ANCHOR TYPES, EMBEDMENT & SUBSTRATES



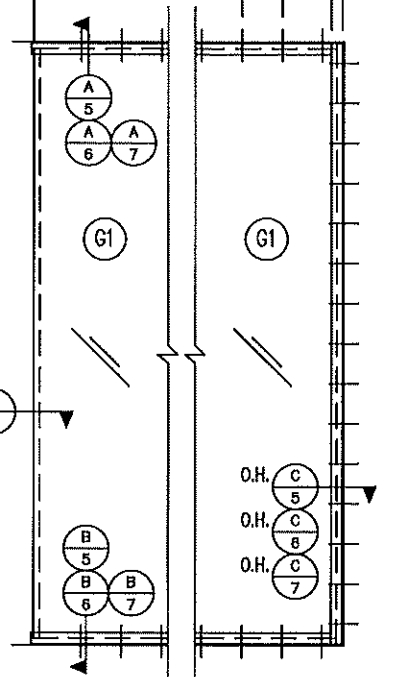
E3 WINDOW ELEVATION (VIEWED FROM EXTERIOR)

INDICATES FRAME ANCHORS REFER TO NOTES ON PAGE 5, 6 & 8 FOR ANCHOR TYPES, EMBEDMENT & SUBSTRATES

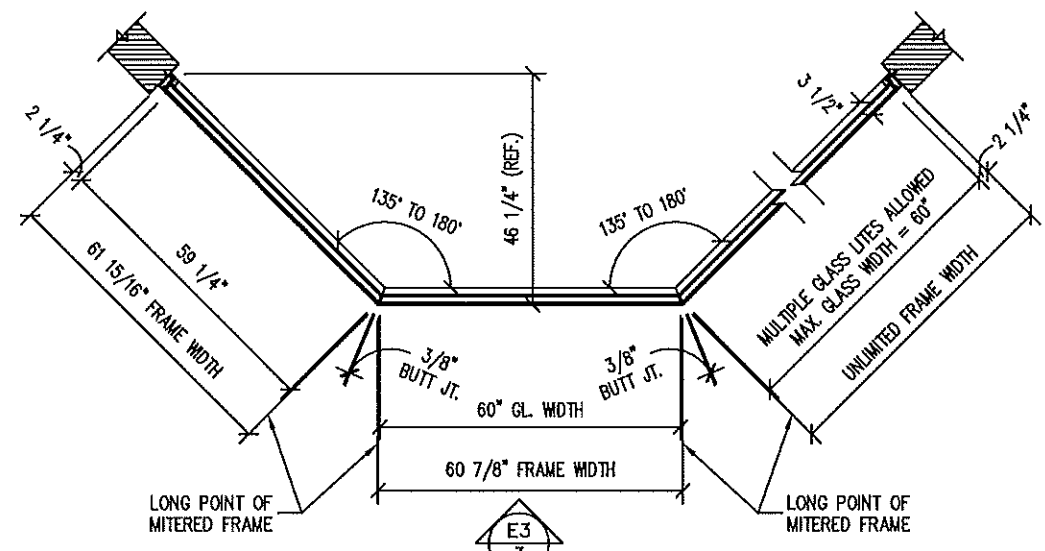


E4 WINDOW ELEVATION (VIEWED FROM EXTERIOR)

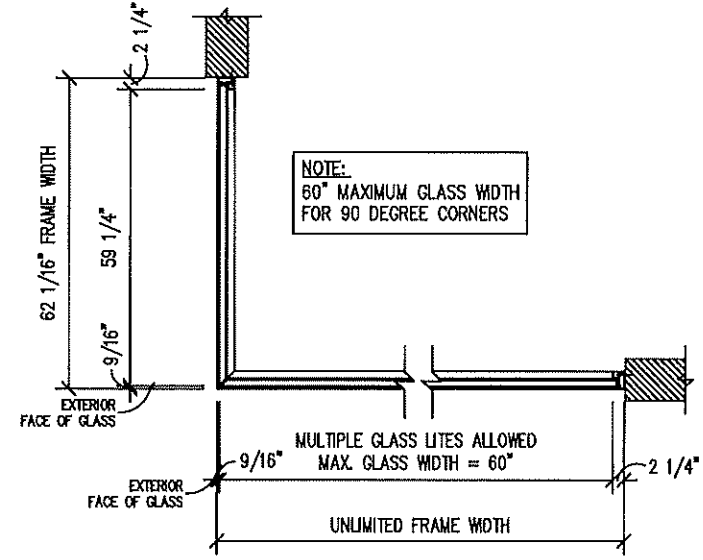
UNLIMITED FRAME WIDTH USING MULTIPLE GLASS LITES ALLOWED
MULTIPLE GLASS LITES ALLOWED
MAX. GLASS WIDTH = 60"
8" O.C. MAX. TYP.



E5 WINDOW ELEVATION (VIEWED FROM EXTERIOR)



P1 PLAN VIEW



NOTE:
60" MAXIMUM GLASS WIDTH FOR 90 DEGREE CORNERS

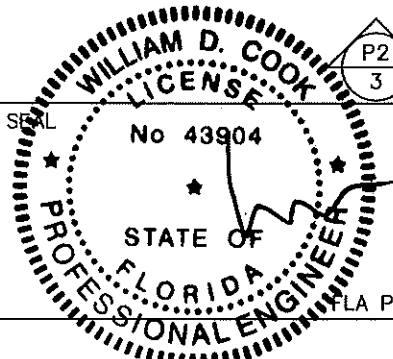
E5 WINDOW ELEVATION (VIEWED FROM EXTERIOR)

P2 PLAN VIEW

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SHT. 3 OF 13		



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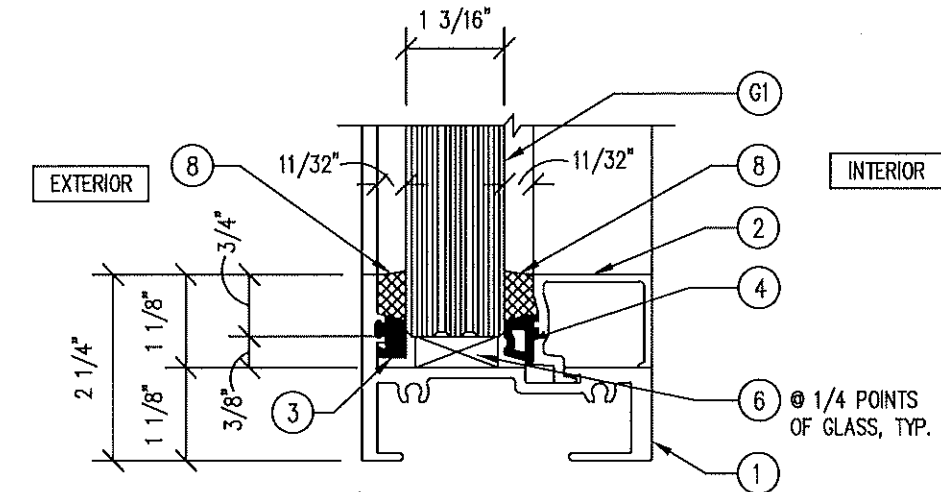
GLASS LOAD CAPACITY - P.S.F. (CAPTURED 4 SIDES)			
FRAME SIZE		GLASS TYPE: G1	GLASS TYPE: G2
FRAME WIDTH	FRAME HEIGHT	PSF (+,-)	PSF (+,-)
48"	84"	70	70
54"			
57"			
60"			
48"	90"		
54"			
57"			
60"			
48"	96"		
54"			
57"			
60"			70
48"	102"		
54"			
57"			
60"			
48"	108"		
54"			
57"			
60"			
48"	114"		
54"			
57"			
60"			
48"	120"		
54"			
57"			
60"			70

GLASS LOAD CAPACITY - P.S.F. (CAPTURED 2 SIDES)			
FRAME/GLASS SIZE		GLASS TYPE: G1	GLASS TYPE: G2
GLASS WIDTH	FRAME HEIGHT	PSF (+,-)	PSF (+,-)
48"	84"	70	70
54"			
57"			
60"			
48"	90"		
54"			
57"			
60"			
48"	96"		
54"			
57"			
60"			70
48"	102"		
54"			
57"			
60"			
48"	108"		
54"			
57"			
60"			
48"	114"		
54"			
57"			
60"			
48"	120"		
54"			
57"			
60"			70

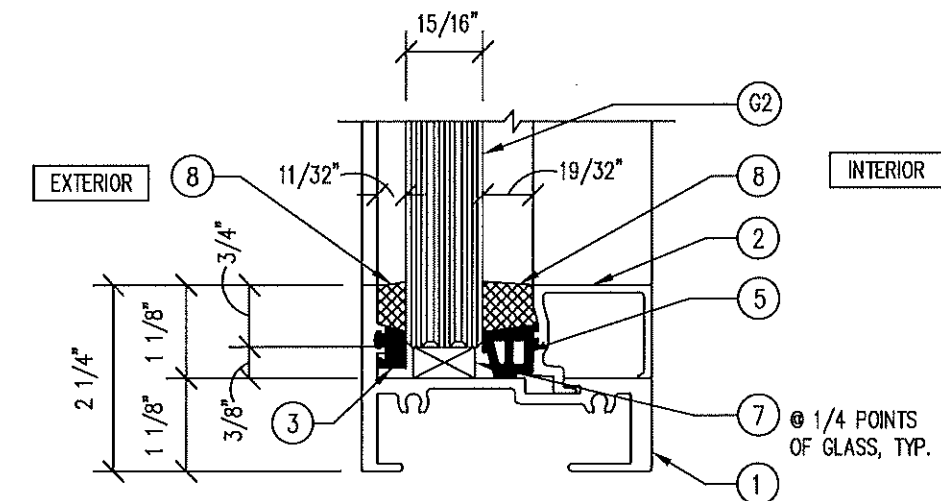
MAXIMUM ALLOWABLE GLASS SIZE BASED ON
ASTM E-1300-09 (3 SEC. GUSTS)

WATER INFILTRATION = +14.0 PSF

GLASS TYPES:		
GLASS MK:	GLASS TYPE:	COMPOSITION:
G1	1 3/16" THK. LAMINATED	3/8" HEAT STRENGTHENED - .090" SENTRYGLAS INTERLAYER - 1/4" HEAT STRENGTHENED - .090" SENTRYGLAS INTERLAYER - 3/8" HEAT STRENGTHENED (SENTRYGLAS BY KURARAY AMERICA INC.)
G2	15/16" THK. LAMINATED	1/4" HEAT STRENGTHENED - .090" SENTRYGLAS INTERLAYER - 1/4" HEAT STRENGTHENED - .090" SENTRYGLAS INTERLAYER - 1/4" HEAT STRENGTHENED (SENTRYGLAS BY KURARAY AMERICA INC.)

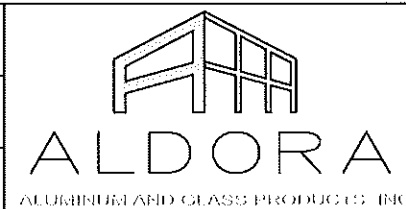


G1 TYPICAL GLAZING DETAIL
1 3/16" NOMINAL THICKNESS LAMINATED GLASS

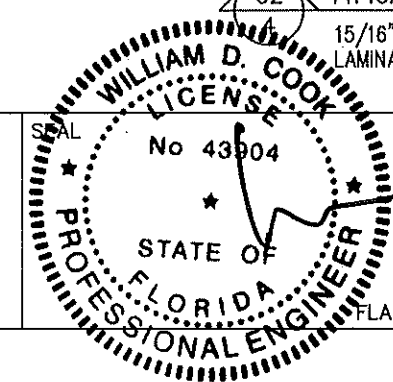


G2 TYPICAL GLAZING DETAIL
15/16" NOMINAL THICKNESS LAMINATED GLASS

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SCALE:		DATE: 04/15/2021
SHT. 4 of 13		



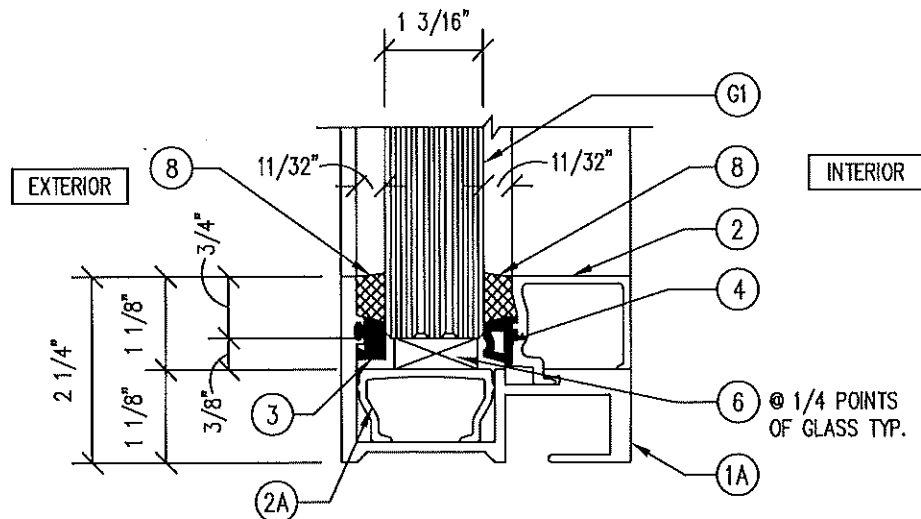
4250 CORAL RIDGE DRIVE
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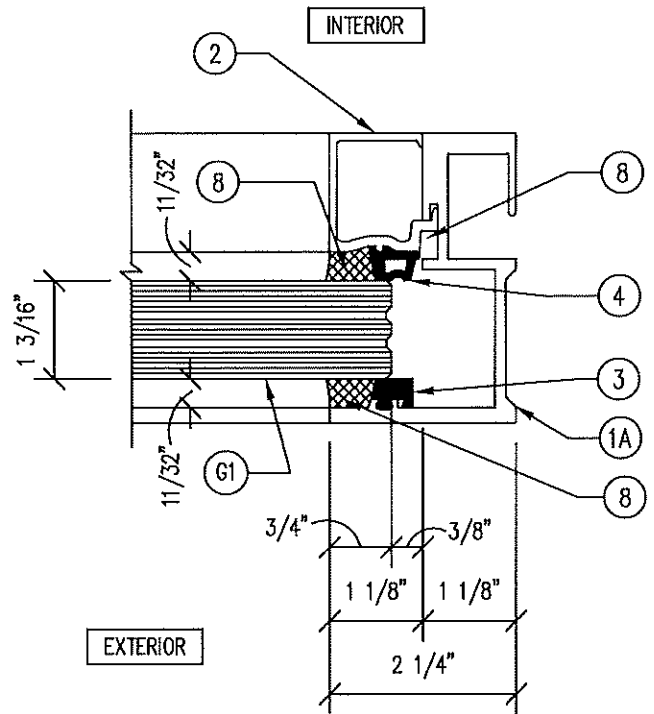
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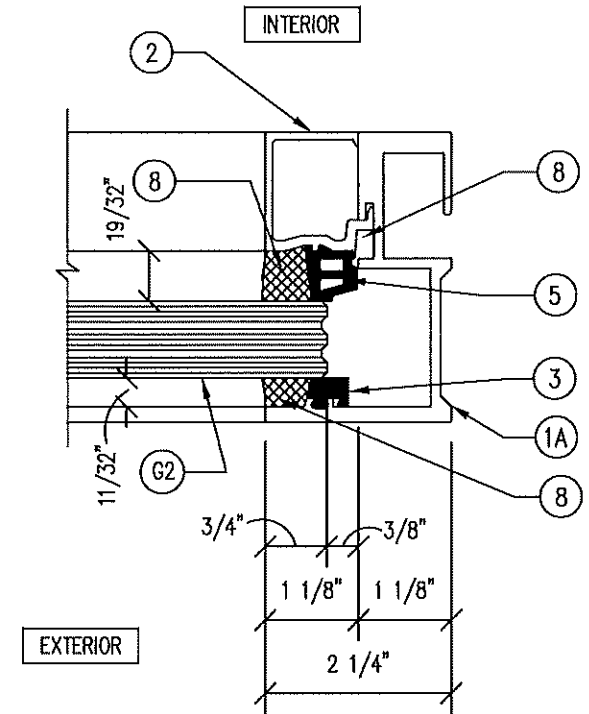
BROMLEY-COOK ENGINEERING, INC.
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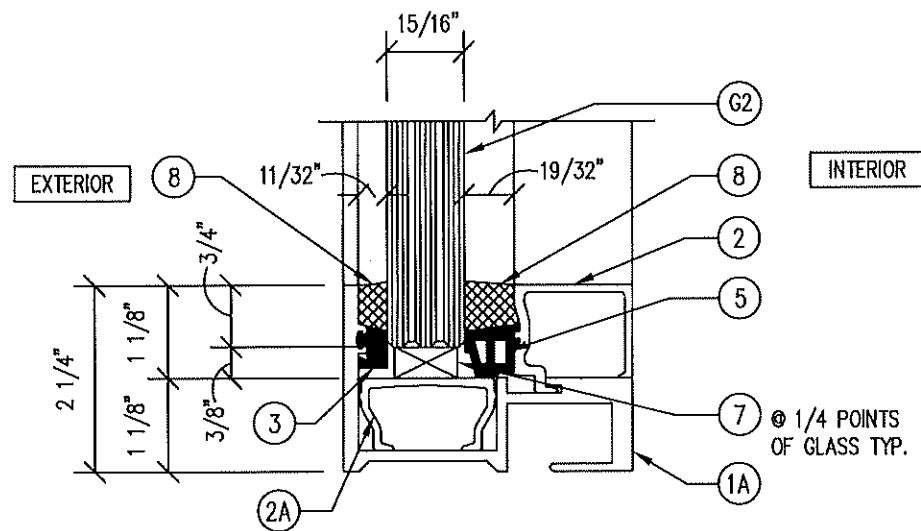
G3
4.1
OPTIONAL GLAZING DETAIL
DEEP POCKET FRAME W/
1 3/16" NOMINAL THICKNESS
LAMINATED GLASS



G5
4.1
OPTIONAL GLAZING DETAIL
DEEP POCKET FRAME JAMB (HEAD SIM.)
W/ 1 3/16" NOMINAL THICKNESS
LAMINATED GLASS



G6
4.1
OPTIONAL GLAZING DETAIL
DEEP POCKET FRAME JAMB (HEAD SIM.)
W/ 15/16" NOMINAL THICKNESS
LAMINATED GLASS

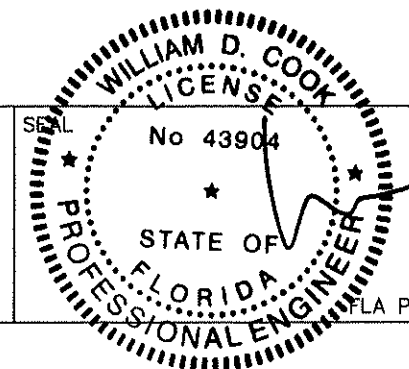


G4
4.1
OPTIONAL GLAZING DETAIL
DEEP POCKET FRAME W/
15/16" NOMINAL THICKNESS
LAMINATED GLASS

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SHT. 4.1 of 13		DATE: 04/15/2021



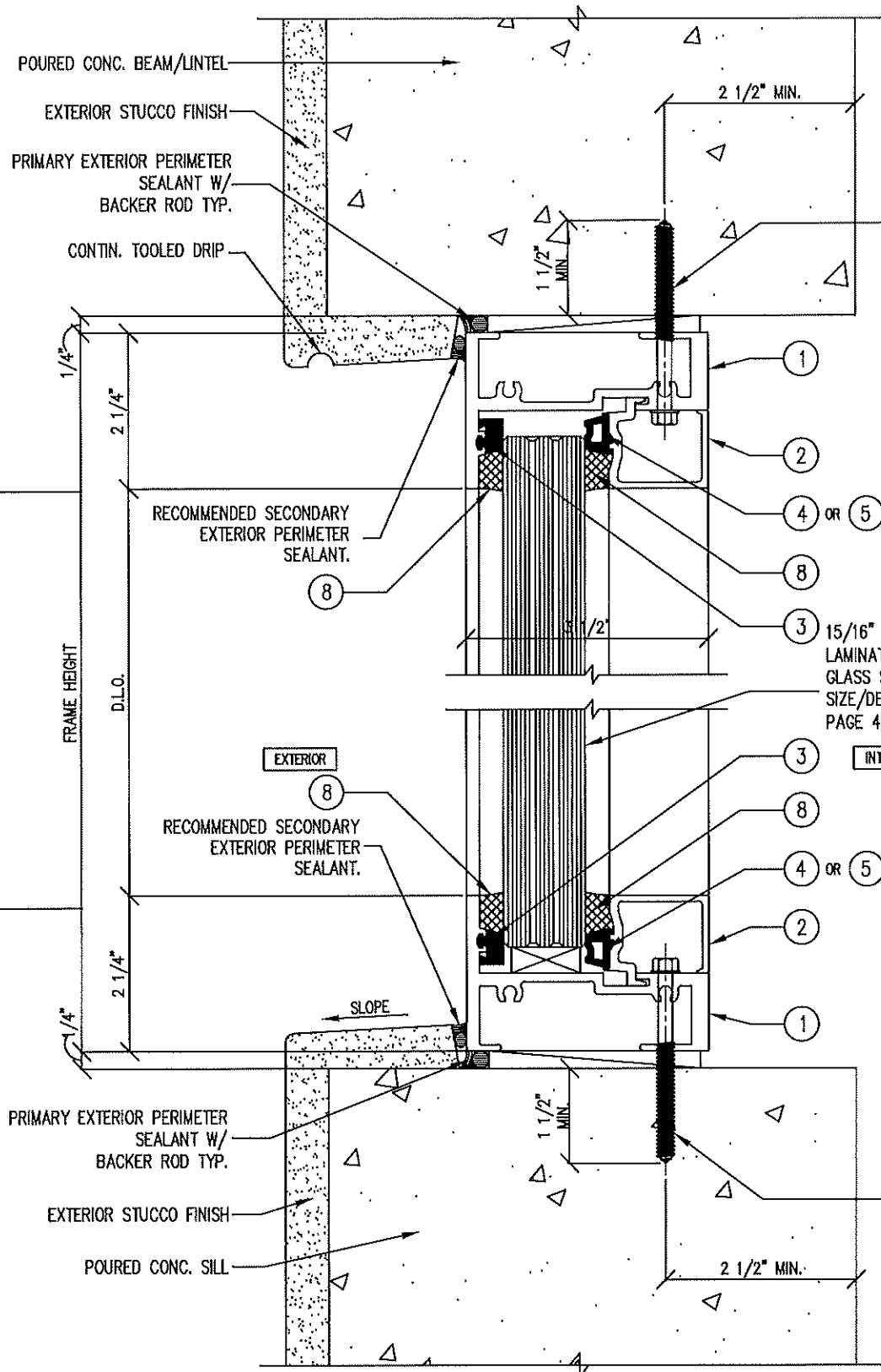
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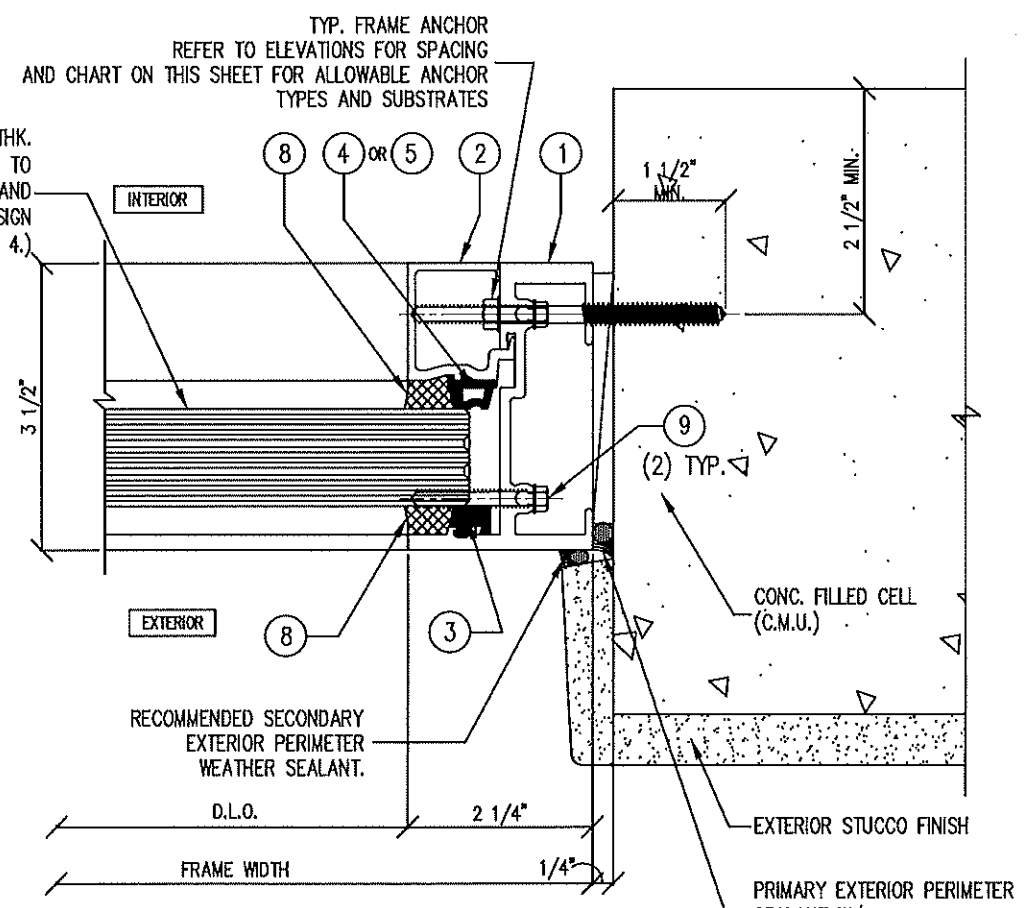


PERIMETER SEALANTS:
 PERIMETER SEALANTS MAY BE THE FOLLOWING:
 DOW CORNING 795 SILICONE
 TREMCO SPECTRUM SILICONE OR DYMONIC FC.
 TREMCO DYMONIC 100 URETHANE.

ALTERNATE SEALANTS TO BE APPROVED BY EOR OR SPECIALTY ENGINEER.

- APPROVED FRAME ANCHORS:**
- 1/4" DIA. H.H. ULTRACONS OR EQUAL INTO 2500 P.S.I. MIN. GROUT FILLED C.M.U. WITH 1 1/2" MIN. EMBED. MIN. EDGE DISTANCE = 2 1/2"
 - 1/4" DIA. H.H. ULTRACONS OR EQUAL INTO 3000 P.S.I. POURED CONC. WITH 1 1/2" MIN. EMBED. MIN. EDGE DISTANCE = 2 1/2"
 - 1/4" DIA. H.H. ULTRACONS OR EQUAL THRU 3/4" NOMINAL THICKNESS WOOD BUCK WITH 1 1/2" MIN. EMBED. INTO CONC. MIN. EDGE DISTANCE = 2 1/2"
 - 1/4" DIA. H.H. ULTRACONS OR EQUAL INTO 1 1/2" NOMINAL THICKNESS (2 X) WOOD BUCK WITH 1 1/2" MIN. EMBED INTO STRUCTURAL WOOD FRAMING. (MIN. SPECIFIC GRAVITY = 0.55) MIN. EDGE DISTANCE = 1 1/4"
 - #14 X 1 1/4" H.H. SELF THREADING SCREWS (ELCO "DRILL-FLEX" OR "TEKS") INTO STEEL OR ALUMINUM FRAMING (STEEL: A36 MIN. YIELD STRENGTH - 1/8" MIN. THICKNESS) (ALUMINUM: 6063-T5 OR SIM.) FASTENERS MUST PENETRATE THRU METAL SUBSTRATE 1/4" MIN.

TYP. FRAME ANCHOR REFER TO ELEVATIONS FOR SPACING AND CHART ON THIS SHEET FOR ALLOWABLE ANCHOR TYPES AND SUBSTRATES



15/16" OR 1 3/16" THK. LAMINATED GLASS (REFER TO GLASS SCHEDULE AND ALLOWABLE SIZE/DESIGN PRESSURE CHART ON PAGE 4.)

TYP. FRAME ANCHOR REFER TO ELEVATIONS FOR SPACING AND CHART ON THIS SHEET FOR ALLOWABLE ANCHOR TYPES AND SUBSTRATES

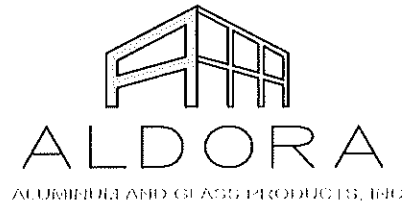
TYP. FRAME ANCHOR REFER TO ELEVATIONS FOR SPACING AND CHART ON THIS SHEET FOR ALLOWABLE ANCHOR TYPES AND SUBSTRATES

C JAMB DETAIL
 5 CONC. SUBSTRATE W/O WOOD BUCK

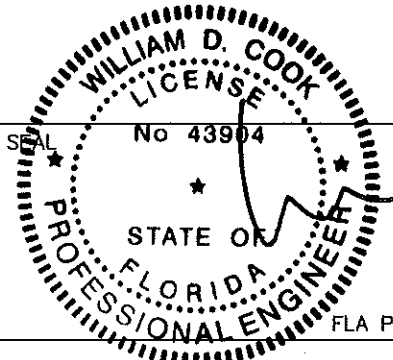
A HEAD DETAIL
 5 CONC. SUBSTRATE W/O WOOD BUCK

B SILL DETAIL
 5 CONC. SUBSTRATE W/O WOOD BUCK

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SHT. 5 OF 13	SCALE:	DATE: 04/15/2021



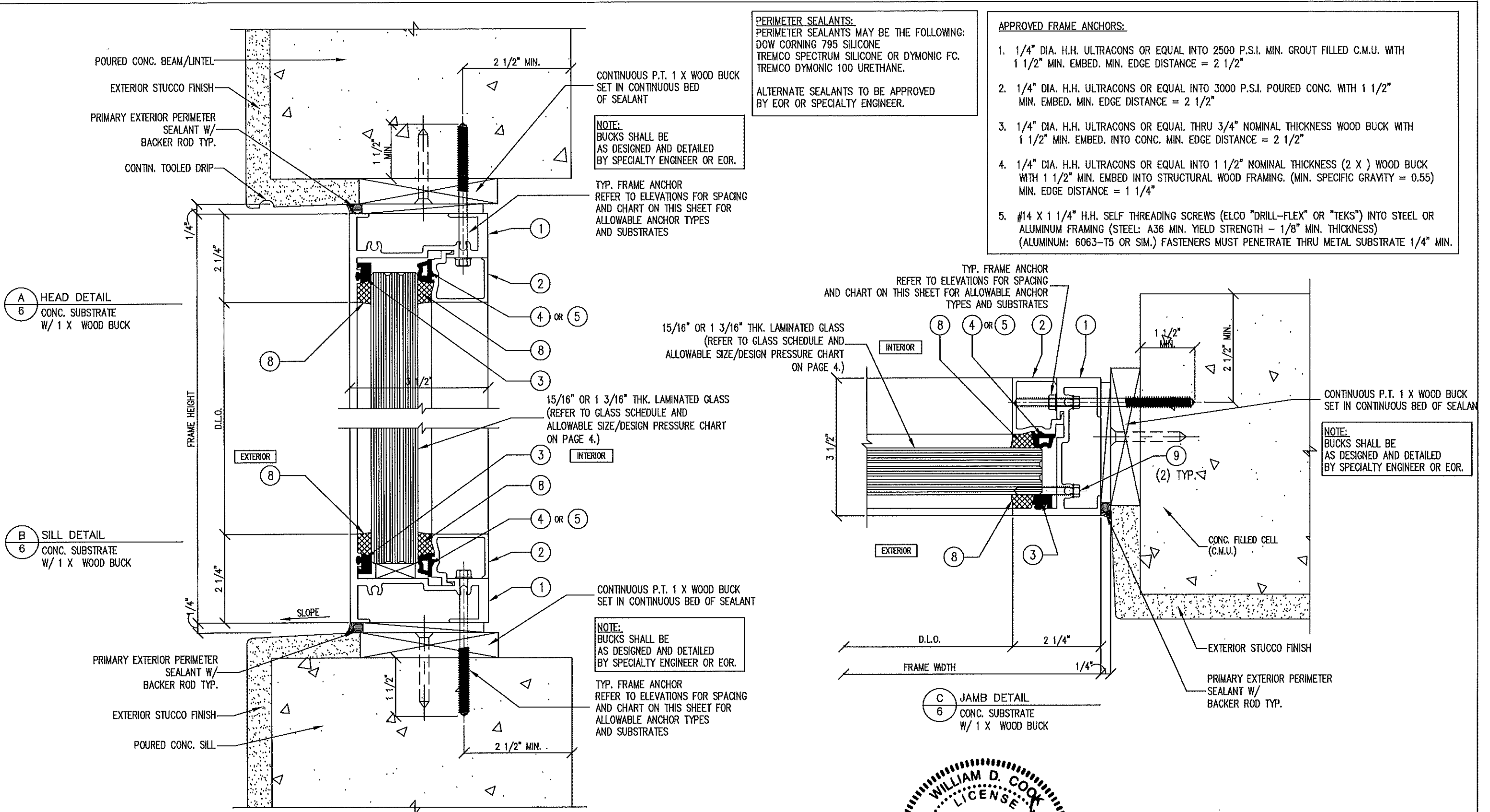
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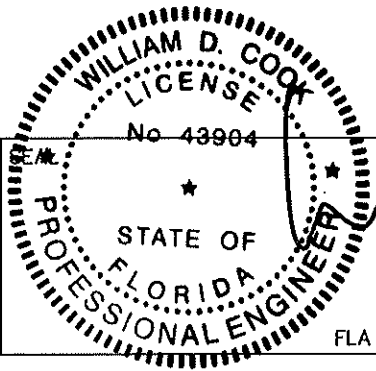
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SHT. 6 OF 13		DATE: 04/15/2021

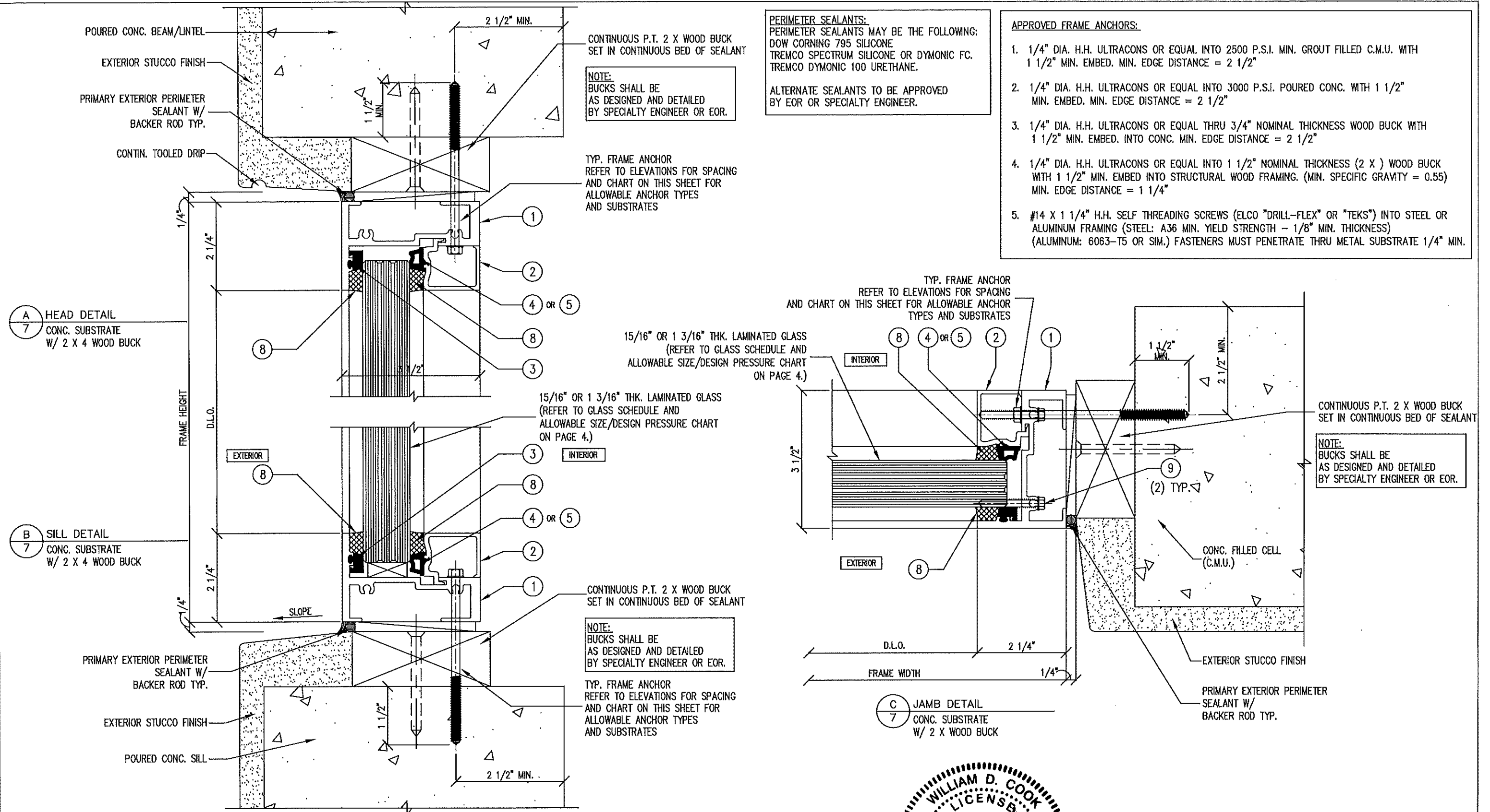


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A
 HEAD DETAIL
 CONC. SUBSTRATE
 W/ 2 X 4 WOOD BUCK

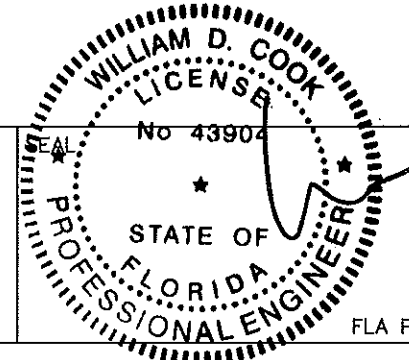
B
 SILL DETAIL
 CONC. SUBSTRATE
 W/ 2 X 4 WOOD BUCK

C
 JAMB DETAIL
 CONC. SUBSTRATE
 W/ 2 X WOOD BUCK

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SHT. 7 OF 13	SCALE:	DATE: 04/15/2021



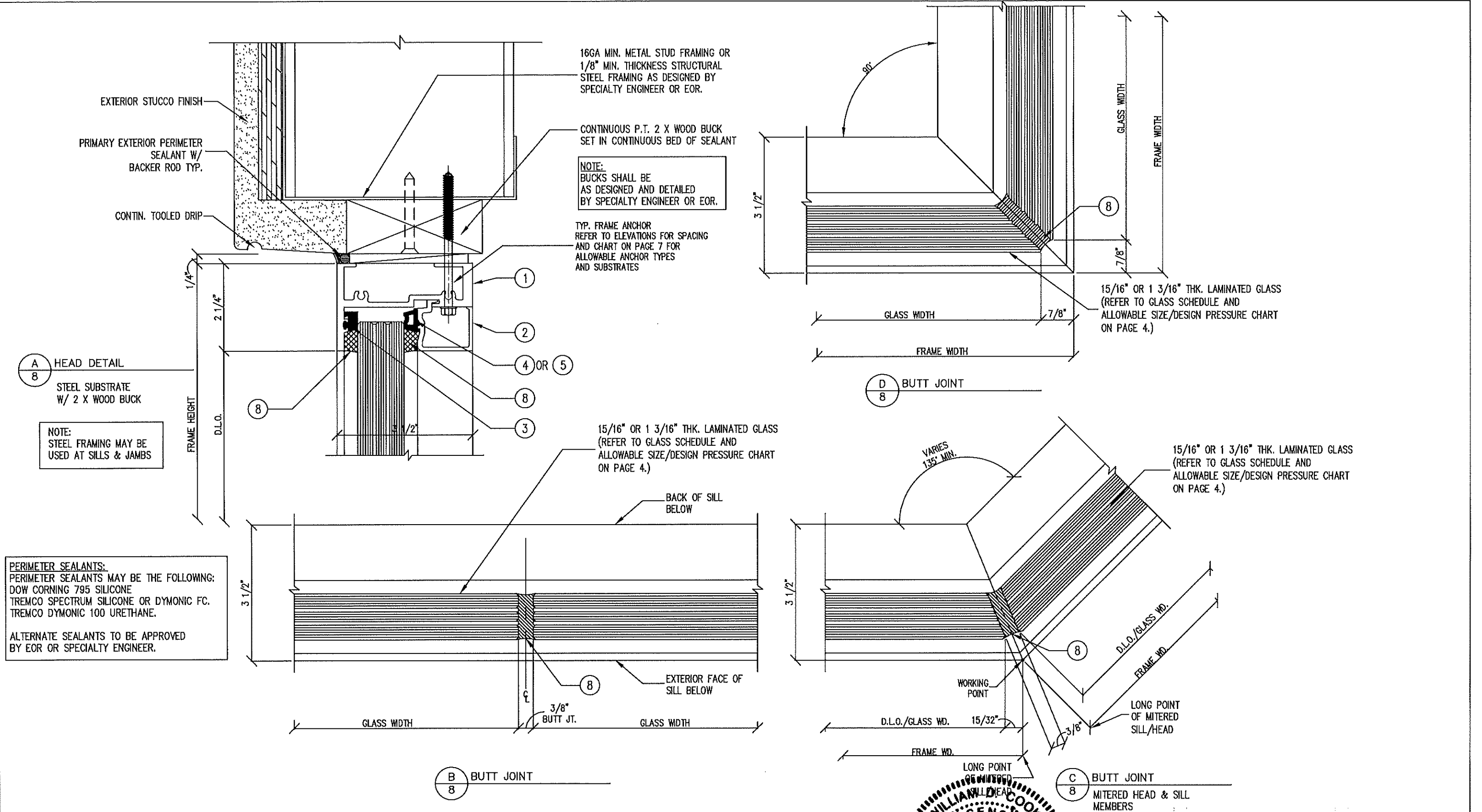
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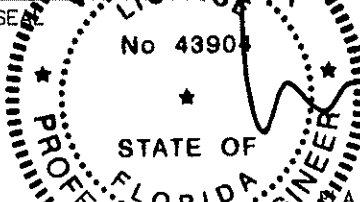
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SHT. 8 OF 13	SCALE:	DATE: 04/15/2021


ALDORA
 ALUMINUM AND GLASS PRODUCTS, INC.

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 FAX: 954-688-9816


 WILLIAM D. COOK P.E.
 No 43904
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 APR 16 2021
 WILLIAM D. COOK P.E.
 A.P.E. #43904, FLA S.I. #2008

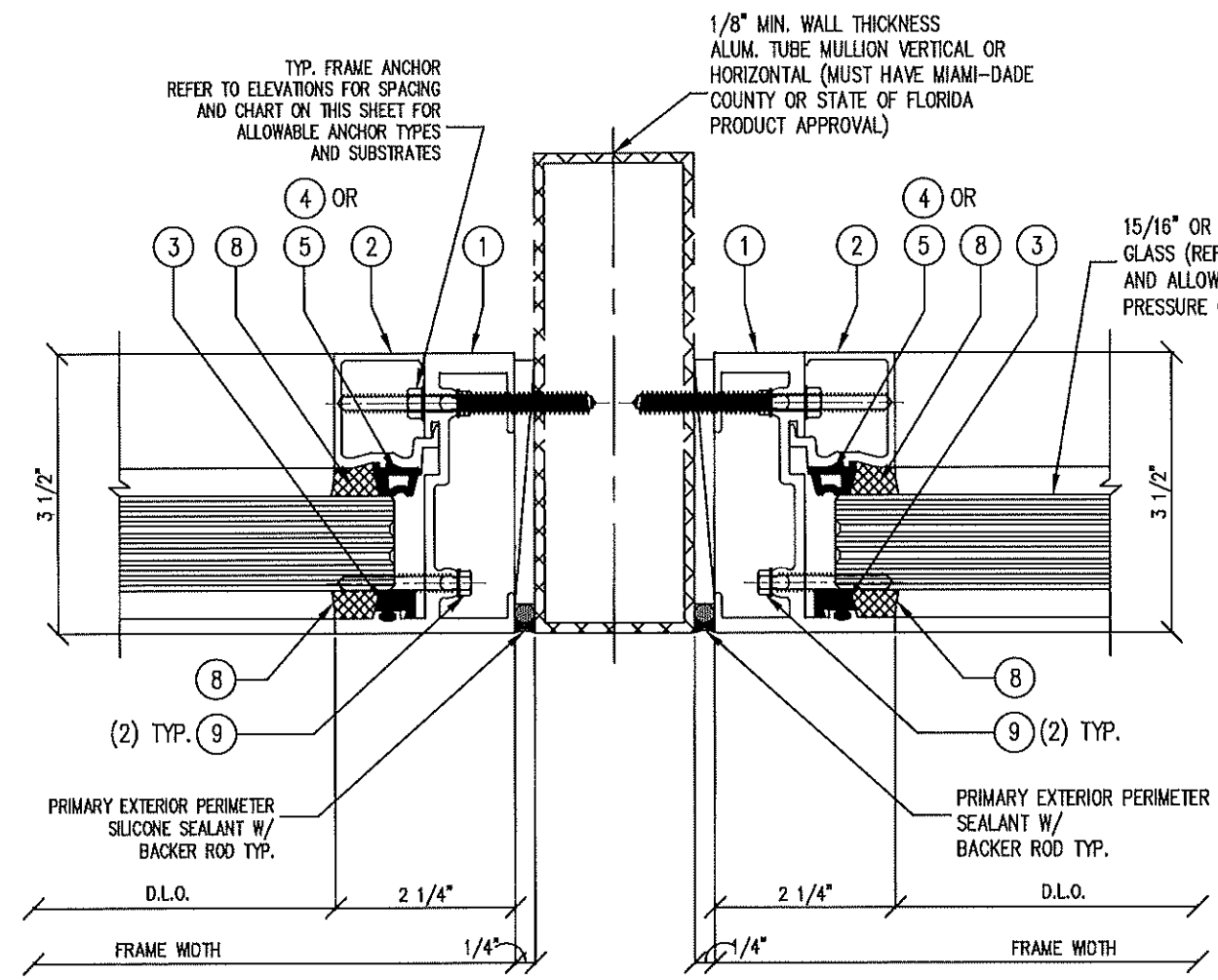
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NOTE:
 FRAMES MAY BE INSTALLED SIDE BY SIDE OR STACKED VERTICALLY USING MIAMI-DADE COUNTY OR STATE OF FLORIDA APPROVED VERTICAL OR HORIZONTAL MULLION TUBES. STEEL COLUMNS OR BEAMS DESIGNED BY SPECIALTY ENGINEER OR ENGINEER OF RECORD MAY ALSO BE USED BETWEEN FRAMES.

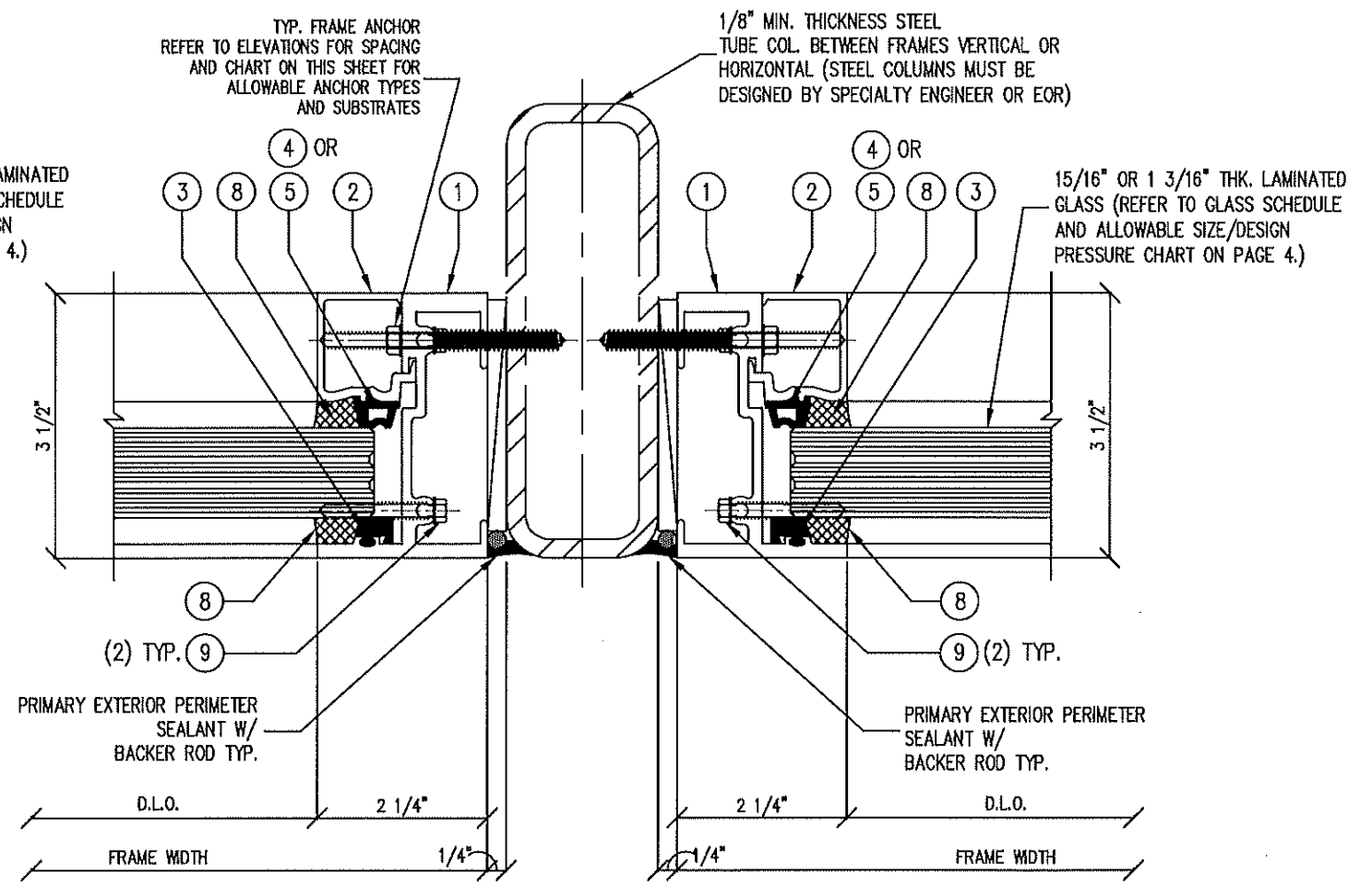
PERIMETER SEALANTS:
 PERIMETER SEALANTS MAY BE THE FOLLOWING:
 DOW CORNING 795 SILICONE
 TREMCO SPECTRUM SILICONE OR DYMONIC FC.
 TREMCO DYMONIC 100 URETHANE.

 ALTERNATE SEALANTS TO BE APPROVED BY EOR OR SPECIALTY ENGINEER.

- APPROVED FRAME ANCHORS:**
- 1/4" DIA. H.H. ULTRACONS OR EQUAL INTO 2500 P.S.I. MIN. GROUT FILLED C.M.U. WITH 1 1/2" MIN. EMBED. MIN. EDGE DISTANCE = 2 1/2"
 - 1/4" DIA. H.H. ULTRACONS OR EQUAL INTO 3000 P.S.I. POURED CONC. WITH 1 1/2" MIN. EMBED. MIN. EDGE DISTANCE = 2 1/2"
 - 1/4" DIA. H.H. ULTRACONS OR EQUAL THRU 3/4" NOMINAL THICKNESS WOOD BUCK WITH 1 1/2" MIN. EMBED. INTO CONC. MIN. EDGE DISTANCE = 2 1/2"
 - 1/4" DIA. H.H. ULTRACONS OR EQUAL INTO 1 1/2" NOMINAL THICKNESS (2 X) WOOD BUCK WITH 1 1/2" MIN. EMBED INTO STRUCTURAL WOOD FRAMING. (MIN. SPECIFIC GRAVITY = 0.55) MIN. EDGE DISTANCE = 1 1/4"
 - #14 X 1 1/4" H.H. SELF THREADING SCREWS (ELCO "DRILL-FLEX" OR "TEKS") INTO STEEL OR ALUMINUM FRAMING (STEEL: A36 MIN. YIELD STRENGTH - 1/8" MIN. THICKNESS) (ALUMINUM: 6063-T5 OR SIM.) FASTENERS MUST PENETRATE THRU METAL SUBSTRATE 1/4" MIN.



A VERTICAL MULLION
 9 "OPTIONAL"

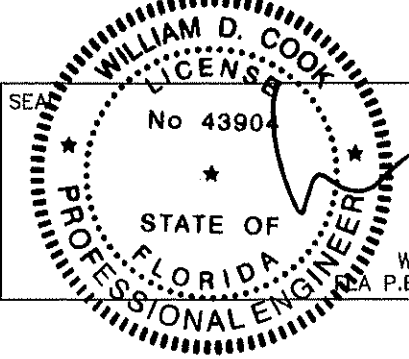


B VERTICAL MULLION
 9 "OPTIONAL"

PROJECT NAME: FS300 MAXIMUM VIEW FIXED WINDOW SYSTEM - L.M.I.		
DRAWING NUMBER: FS300MV-FWS.LMI	DRAW BY: M.G.	PRODUCT APPROVAL NO.: FL 27051.1
SHT. 9 OF 13	SCALE:	DATE: 04/15/2021

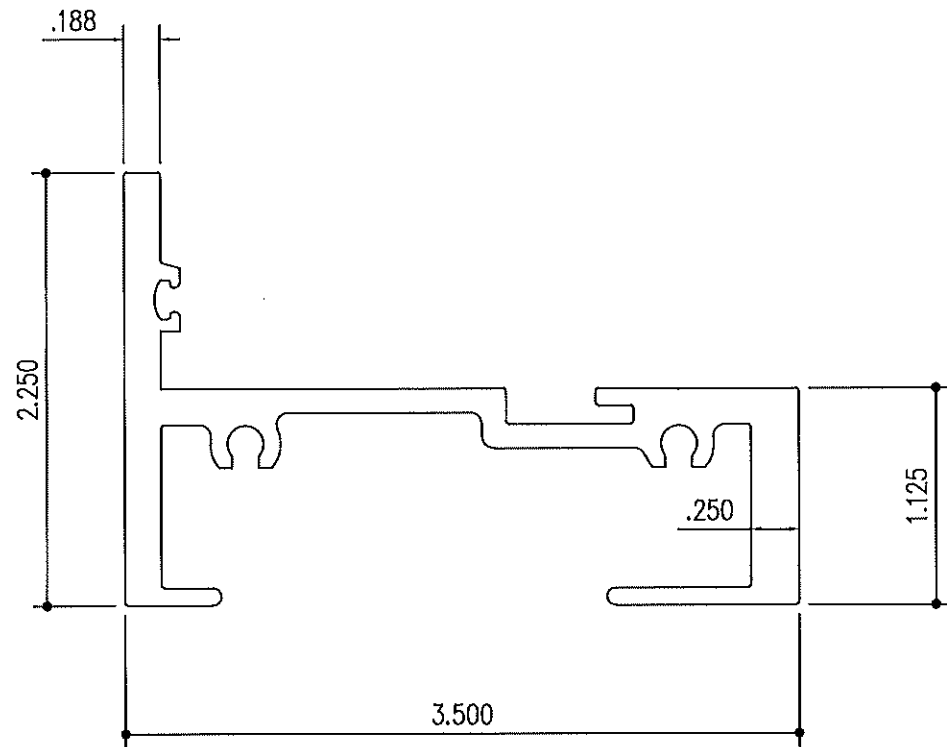


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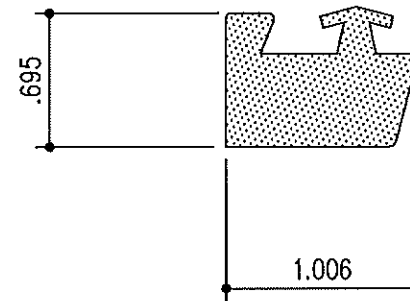


APR 16 2021
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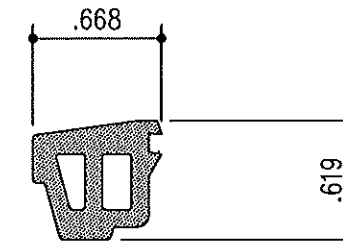
BROMLEY-COOK ENGINEERING, INC.
 STRUCTURAL ENGINEERING SERVICES
 5440 N.W. 33RD AVENUE SUITE 100
 FORT LAUDERDALE, FLORIDA 33309
 TEL: (954) 772-4624 FAX: (954) 772-4634



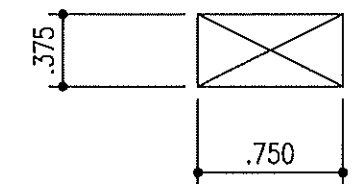
① SMI-451
HEAD, SILL AND JAMB



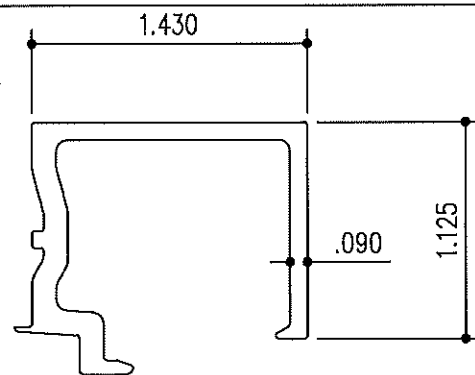
③ SMI-G21 SPACER
OUTER GASKET



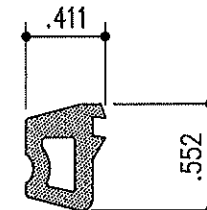
⑤ SMI-G23 WEDGE
GASKET (@ INTERIOR)



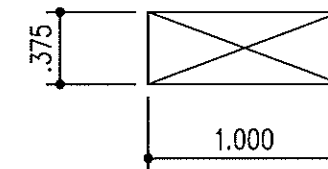
⑦ SMI-SB12
SETTING BLOCK



② SMI-452
GLASS STOP

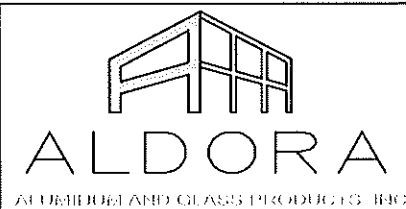


④ SMI-G22 WEDGE
GASKET (@ INTERIOR)

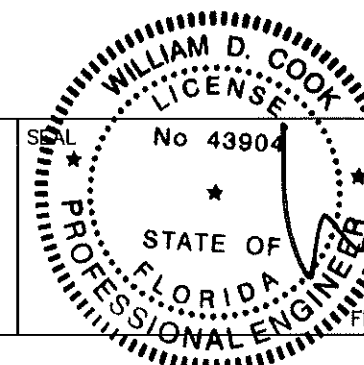


⑥ SMI-SB11
SETTING BLOCK
70 DUROMETER (SHORE A)

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SCALE:		DATE: 04/15/2021
SHT. 10 OF 13		



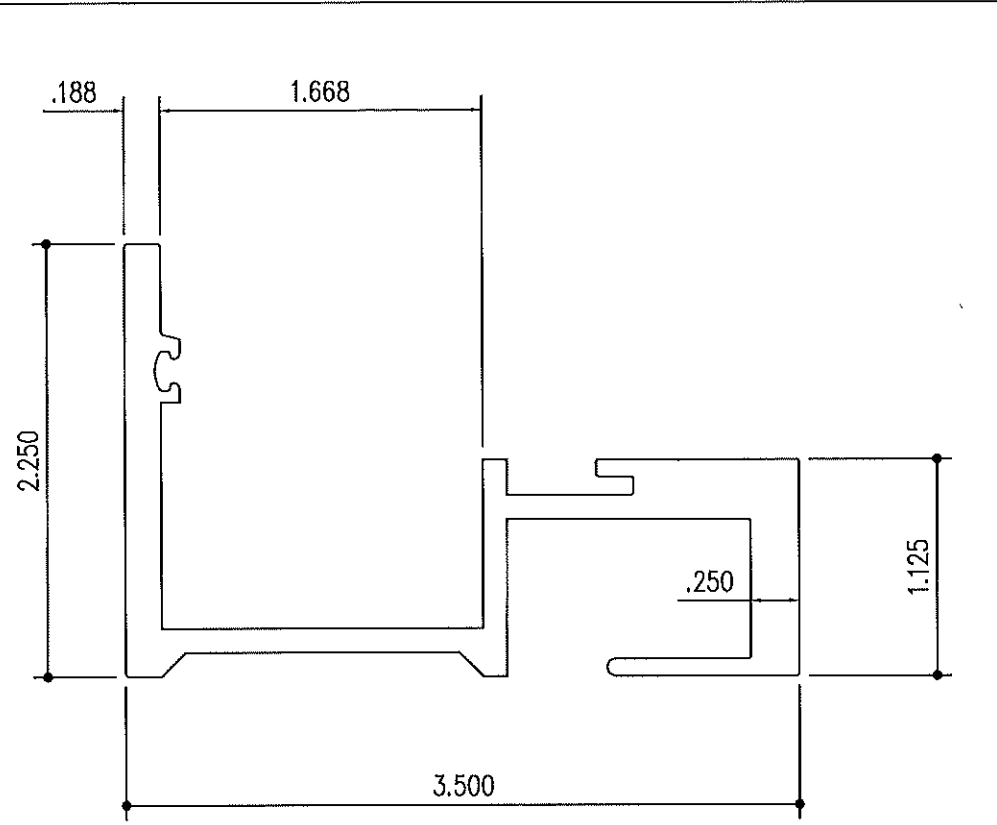
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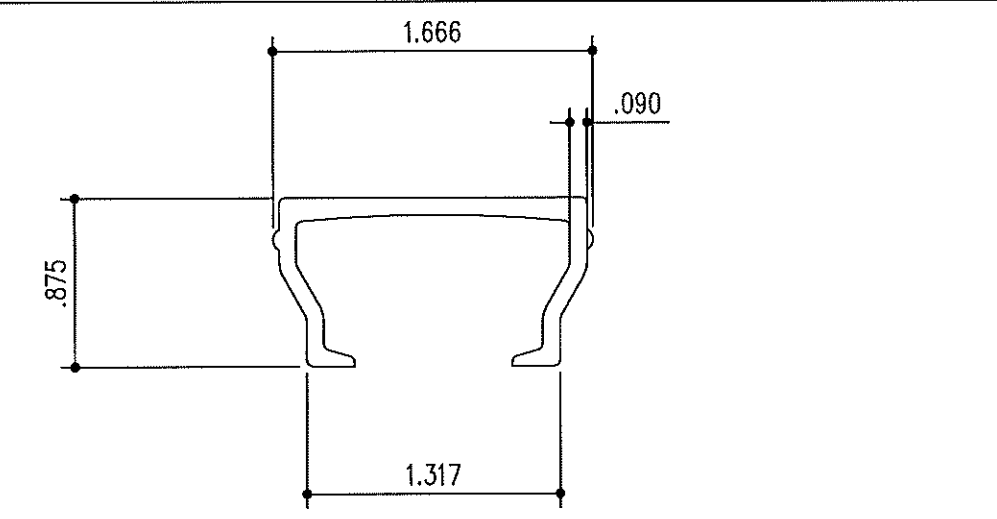
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1A SMI-453
OPTIONAL "DEEP POCKET"
HEAD, SILL AND JAMB



2A SMI-454
GLASS SEETING CHAIR FOR
OPTIONAL "DEEP POCKET"
HEAD, SILL AND JAMB

BILL OF MATERIALS

ITEM #	PART #	QTY.	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	SMI-451	AS REQ'D	TYP. FRAME HEAD, SILL AND JAMB	6063-T6	-
1A	SMI-453	AS REQ'D	OPTIONAL "DEEP POCKET" FRAME	6063-T6	-
2	SMI-452	AS REQ'D	TYP. GLASS STOP	6063-T6	-
2A	SMI-454	2 PER EA. LITE @ 1/4 PTS.	TYP. GLASS SETTING CHAIR (6" LONG MIN.)	6063-T6	-
3	SMI-G21	AS REQ'D	OUTER PUSH IN SPACER	EPDM	MELTPOINT PLASTICS INTERNATIONAL
4	SMI-G22	AS REQ'D	INNER WEDGE SPACER	SANTOPRENE	MELTPOINT PLASTICS INTERNATIONAL
5	SMI-G23	AS REQ'D	INNER WEDGE SPACER	SANTOPRENE	MELTPOINT PLASTICS INTERNATIONAL
6	SMI-SB11	2 PER EA. LITE @ 1/4 PTS.	SETTING BLOCKS (3/8" X 1" X 4" LG.)	EPDM	FRANK LOWE
7	SMI-SB12	2 PER EA. LITE @ 1/4 PTS.	SETTING BLOCKS (3/8" X 3/4" X 4" LG.)	EPDM	FRANK LOWE
8	995	AS REQ'D	STRUCTURAL SILICONE	SILICONE	DOW CORNING
9	#12 X 1 1/2"	2/CORNER	TYPICAL FRAME ASSEMBLY SCREWS (OPTIONAL)	ST. STEEL	HEX. HEAD MACHINE SCREW

PROJECT NAME: FS300 MAXIMUM VIEW FIXED WINDOW SYSTEM - L.M.I.

DRAWING NUMBER: FS300MV-FWS.LMI

SHT. 11 OF 13

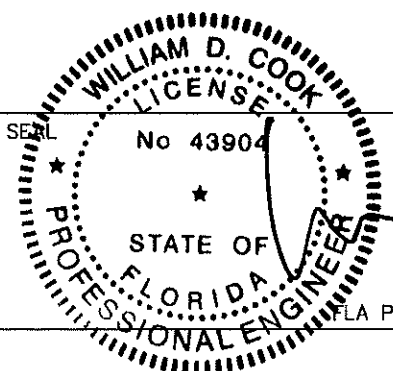
DRAW BY: M.G.

SCALE:

PRODUCT APPROVAL NO.: FL 27051.1

DATE: 04/15/2021

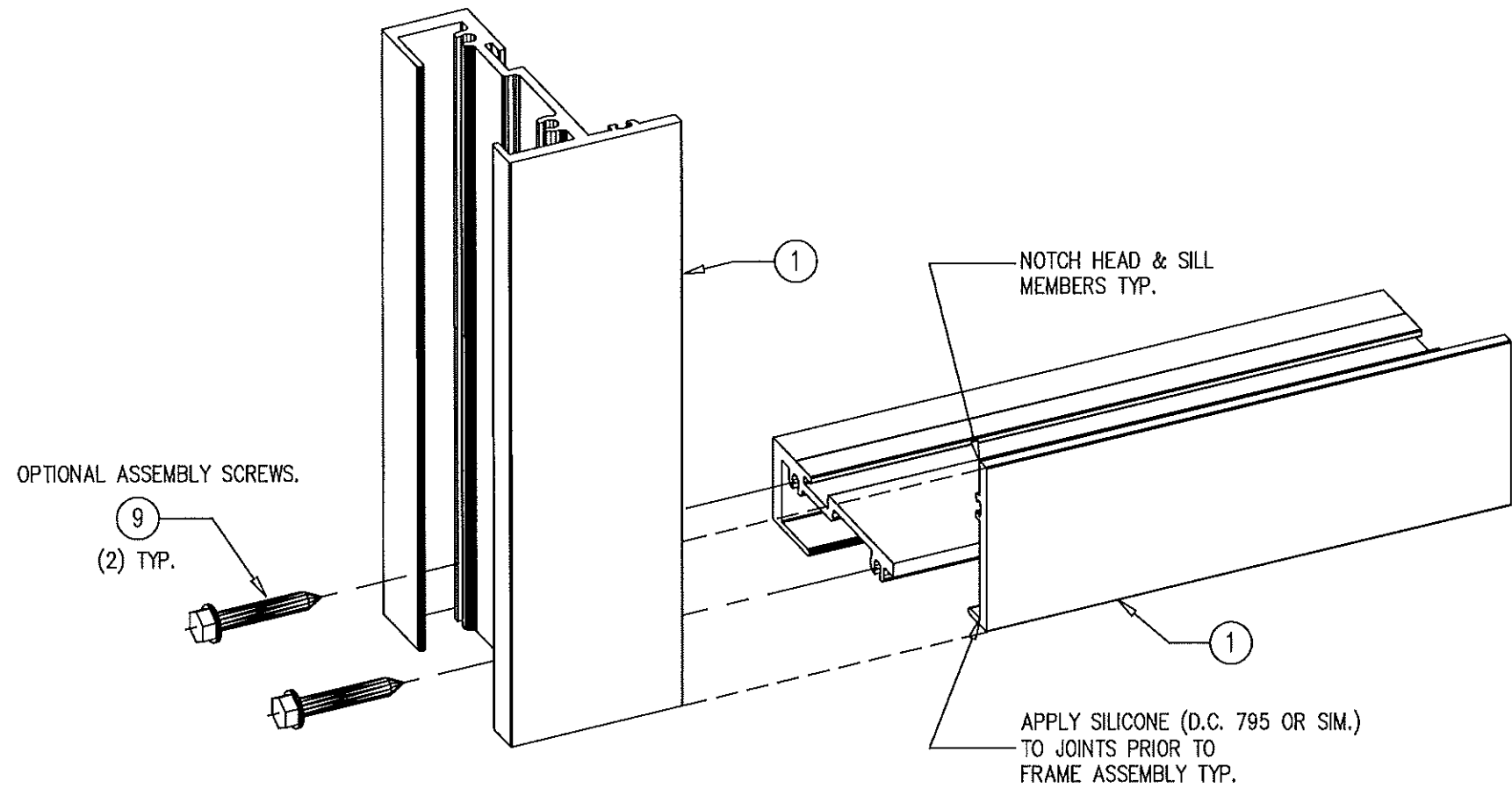
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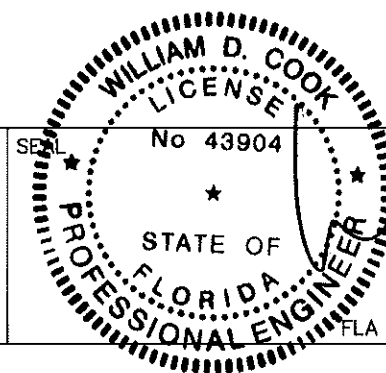


A
11 FRAME CORNER ASS'Y DETAIL

PROJECT NAME: FS300 MAXIMUM VIEW FIXED WINDOW SYSTEM - L.M.I.		
DRAWING NUMBER: FS300MV-FWS.LMI	DRAW BY: M.G.	PRODUCT APPROVAL NO.: FL 27051.1
SCALE:		DATE: 04/15/2021
SHT. 12 of 13		



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