

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 8TH EDITION FLORIDA BUILDING CODE 2023 / 9TH EDITION FLORIDA BUILDING CODE 2026.
2. STAINLESS STEEL SHEET METAL SCREWS (COMPLY WITH ASTM A240) USED AT LOUVER PIN SHALL BE # 14 x 3", 410-HT MINIMUM SERIES W/ 135.0 ksi YIELD STRENGTH & 180 ksi TENSILE STRENGTH. SCREWS SHALL BE COATED WITH XYLAN 5000 SERIES FLUOROPOLYMER COATINGS AS MANUFACTURED BY WHITFORD Co, BOX 507. WEST CHESTER PA. 19381.
3. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY WITH MINIMUM YIELD STRENGTH OF Fy=31.0 ksi.
4. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
5. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
6. WOOD BUCKS BY OTHERS MUST BE SOUTHERN PINE, G = 0.55 MIN. AND MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE MAIN STRUCTURE.
7. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
8. BOLTS TO BE GALVANIZED OR STAINLESS STEEL WITH 36 ksi MINIMUM MINIMUM YIELD STRENGTH.
9. SHUTTER'S COMPONENTS ARE PATENT PENDING.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.
11. A PERMANENT SHUTTER MANUFACTURER'S LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE FEMALE CENTER MATE BLADE (COMPONENT H). ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:

"SUPERIOR PROTECTION SYSTEM / AS"
ALUMINUM PRODUCTS MANUFACTURERS ASSOCIATION
OPA-LOCKA, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
TEST REPORT TAS-201, 202 & 203.
12. (a) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.
13. 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.
14. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).

CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTMA123, OR PROTECTIVE COATING PER TPI 1).

TYPICAL ANCHORS: (SEE CHARTS FOR ANCHOR SPACING)

- TYPE A.

1/4" DIA. ITW TAPCON BY ITW BUILDEX
Fu = 120 KSI, Fy = 92 KSI
INTO CONCRETE f'c=3000 PSI
1-3/4" MIN. EMBED
2-1/2" MIN. EDGE DISTANCE
- TYPE A1.

INTO CONCRETE BLOCK
1-1/4" MIN. EMBED
2-1/2" MIN. EDGE DISTANCE
- TYPE B.

1/4"-20 CALK-IN BY 'POWERS' FASTENERS
INTO CONCRETE f'c=3000 PSI
7/8" MIN. EMBED
3" MIN. EDGE DISTANCE
- TYPE B1.

INTO CONCRETE BLOCK
7/8" MIN. EMBED
3" MIN. EDGE DISTANCE
- TYPE C.

1/4" CRETE-FLEX SS4 MASONRY ANCHOR BY "ELCO" CONSTRUCTION PRODUCTS
Fu = 120 KSI, Fy = 92 KSI
INTO CONCRETE f'c=3000 PSI
1 3/4" MIN. EMBED
2 1/2" MIN. EDGE DISTANCE

INTO CONCRETE BLOCK
1 1/4" MIN. EMBED
2 1/2" MIN. EDGE DISTANCE

TYPE C1.

NOTES:

WHEN EDGE DISTANCE EQUAL OR GREATER THAN 2" AND LESS THAN MIN. EDGE DISTANCE SPECIFIED ABOVE THE ANCHOR SPACE IN ANCHOR CHARTS ON THE DRAWINGS MUST MULTIPLY BY FOLLOWING REDUCTION FACTOR:

ANCHOR TYPE A, & A1: REDUCTION FACTOR = 0.77

ANCHOR TYPE B & B1: REDUCTION FACTOR = 0.50

ANCHOR TYPE C & C1: REDUCTION FACTOR = 0.77

PLEASE NOTE THIS INSTALLATION ARE ONLY VALID FOR THE RESULTING ANCHOR SPACE EQUAL OR GREATER THAN 3".

LIMITATIONS OF USE

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL#29956.1

YIPING WANG

FLORIDA REGISTERED PROFESSIONAL ENGINEER

EXP. #55983

C.A.N. #5598377

No. 85983

STATE OF FLORIDA

PROFESSIONAL ENGINEER

August 28th, 2026

REVISIONS

NO.	DATE	DESCRIPTION
R2	11.08.2023	FBC UPDATE 2023
R3	08.28.2026	REVISION

MCY

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 Miramar Parkway Suite 301

Miramar FL 33027

P: 305 588 5224

www.MCYEngineering.com

mcy@mcyengineering.com

SUPERIOR PROTECTION SYSTEM / AS (A.P.M.A.)

Aluminum Products Manufacturers Association, Inc.(A.P.M.A.)

14475 NW 26th Avenue

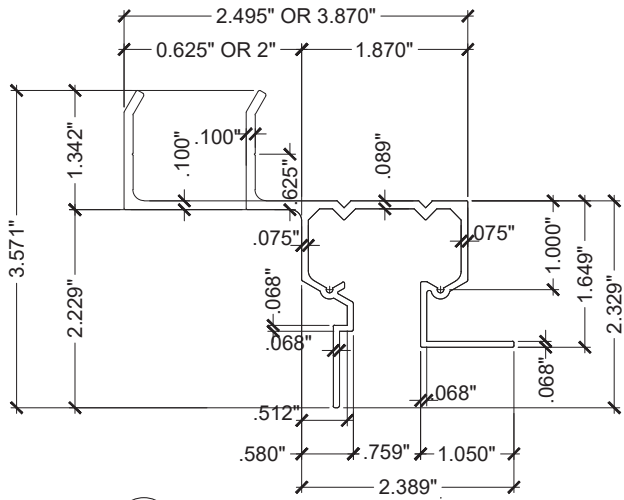
Opa Locka, FL 33054

Tel: 305-586-7440

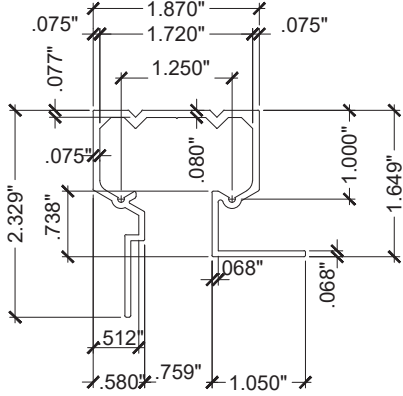
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SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.
AD19-01

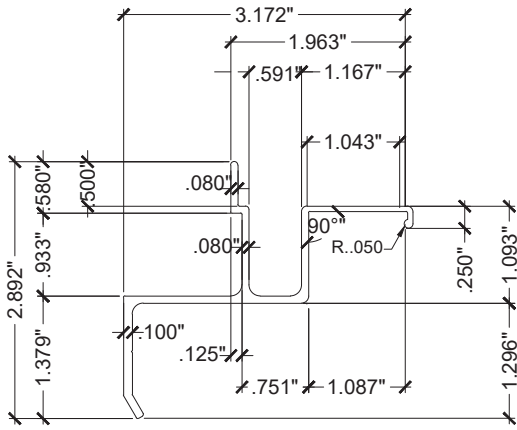
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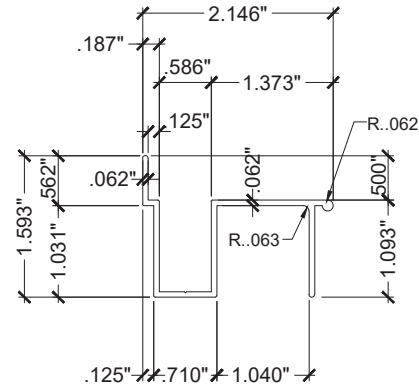
A WALL HEADER (& INVERTED)
SPA001 / SPA009



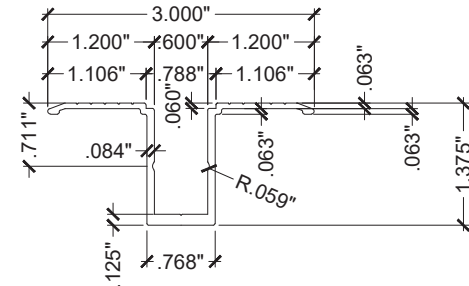
B CEILING HEADER
SPA010



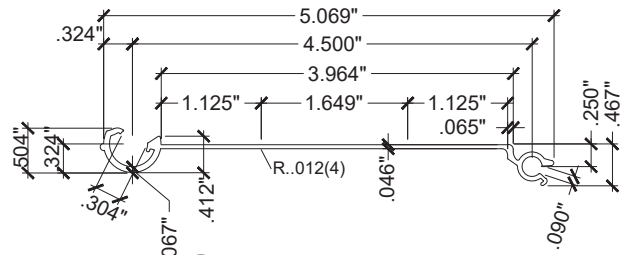
C WALL SILL
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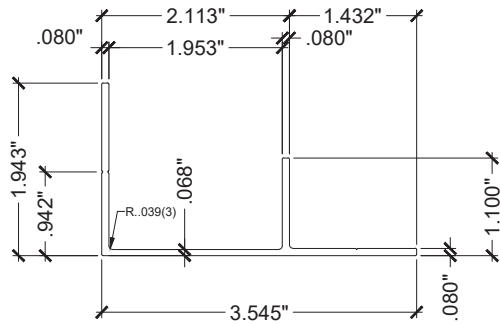
D FLOOR SILL
SPA007



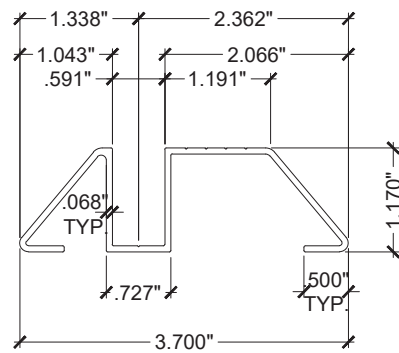
D1 FLOOR SILL
SPA012



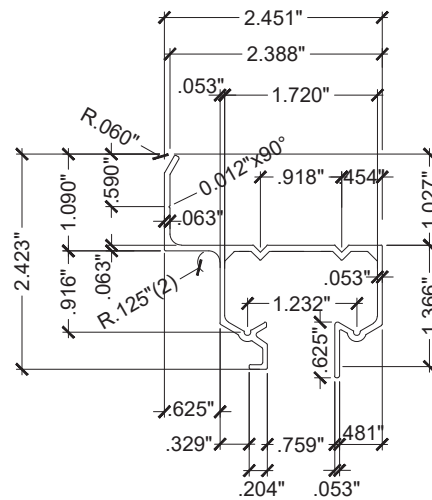
G MALE/FEMALE SOLID BLADE
SPA002



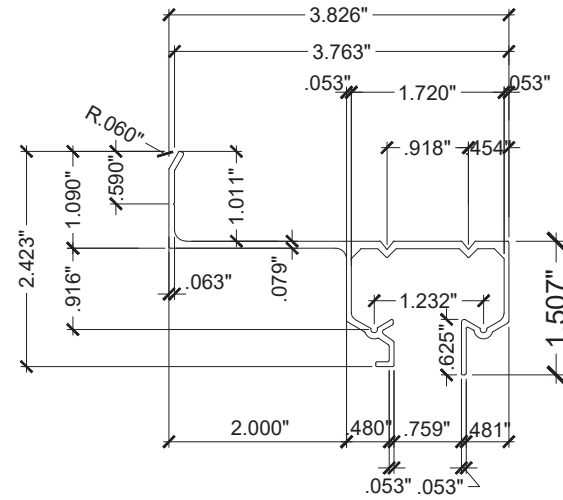
E ADJUSTABLE SILL ADAPTOR
SPA006



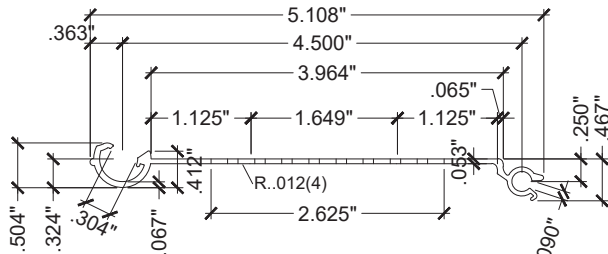
D2 THRESHOLD TRACK
SPA011



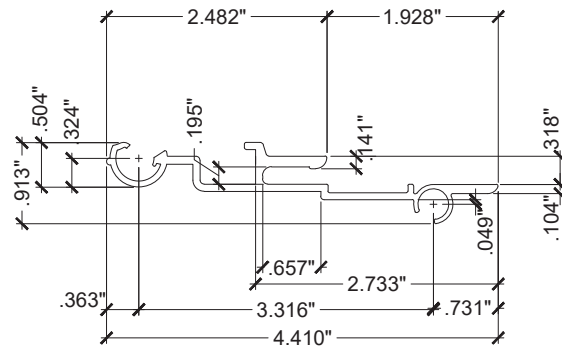
A2 WALL HEADER (& INVERTED)
LIGHT DUTY SPA014



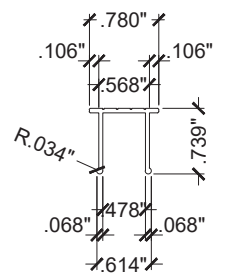
A3 WALL HEADER (& INVERTED)
LIGHT DUTY SPA015



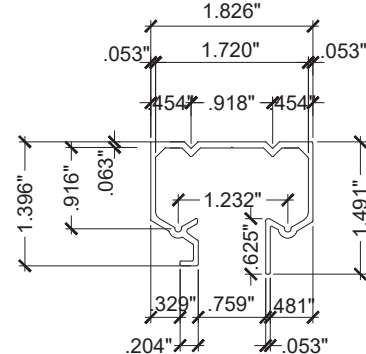
G' MALE/FEMALE PERFORATED BLADE
SPA002-PERF



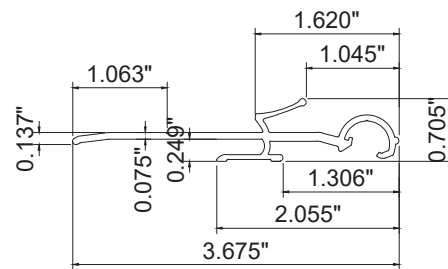
H FEMALE CENTERMATE BLADE
SPA003



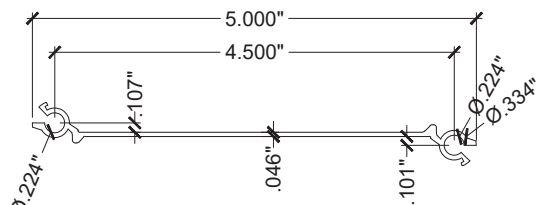
N SNAP COVER
SPA013



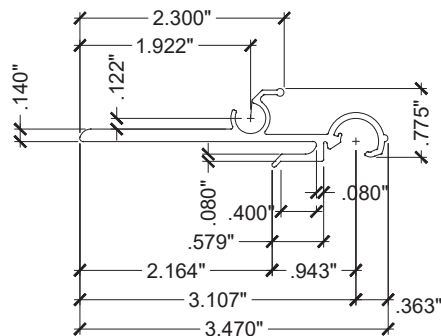
A1 CEILING HEADER (& INVERTED)
LIGHT DUTY SPA016



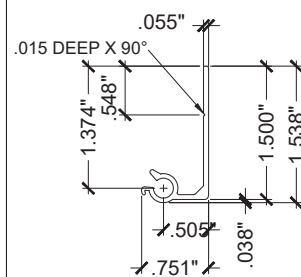
HL CENTER MATE
LIGHT DUTY SPA017



G1 MALE/MALE SOLID BLADE
SPA002-MM



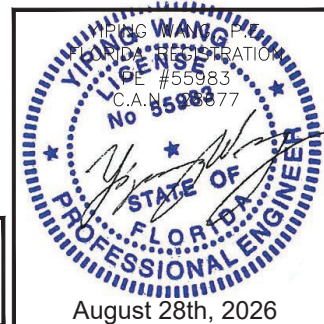
H1 MALE CENTERMATE BLADE
SPA004



F1 180° STARTER
SPA005

COMPONENTS

FLORIDA APPROVAL:
FL#29956.1



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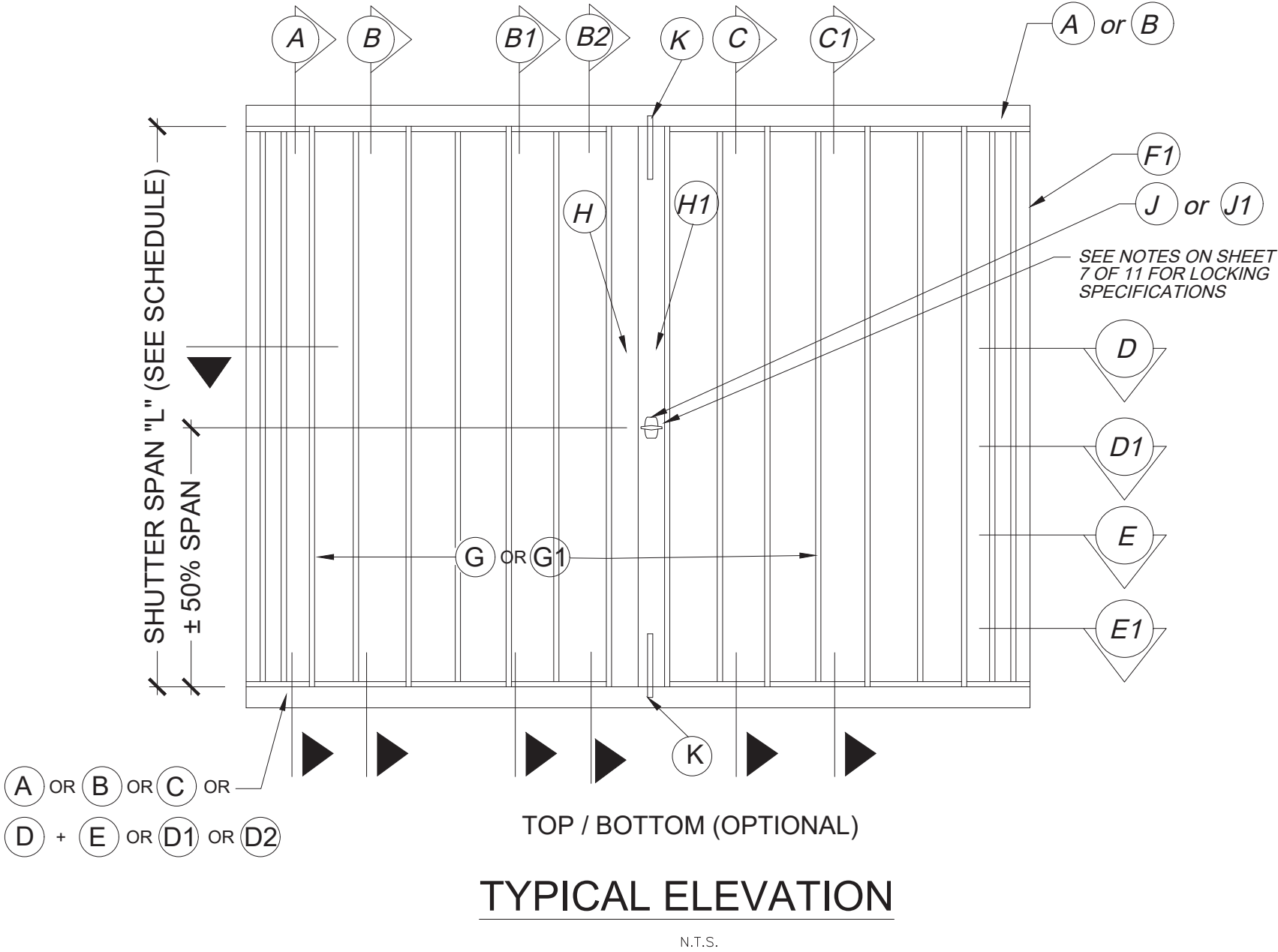
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SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.
AD19-01

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MAXIMUM DESIGN PRESSURE RATING "Pd" (PSF)
AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.

MAXIMUM DESIGN LOAD "Pd" (PSF)	MAXIMUM SHUTTER SPAN FOR ALL SECTIONS		MINIMUM SEPARATION TO GLASS (in.) ALL SECTIONS
	Max. PANEL LENGTH L+ (ft.)	Max. PANEL LENGTH L- (ft.)	
40	13'-2"	14'-1"	3.0
45	12'-9"	14'-1"	3.0
50	12'-5"	14'-1"	3.0
55	12'-2"	13'-5"	3.0
60	11'-11"	12'-10"	3.0
65	11'-8"	12'-4"	3.0
70	11'-5"	11'-11"	3.0
75	11'-3"	11'-6"	3.0
80	11'-1"	11'-2"	3.0
85	10'-10"	10'-10"	3.0
90	10'-6"	10'-6"	3.0
95	10'-3"	10'-3"	2.875
100	10'	10'	2.875
105	9'-9"	9'-9"	2.625
110	9'-6"	9'-6"	2.5
115	9'-4"	9'-4"	2.5
120	9'-1"	9'-1"	2.5
125	8'-10"	8'-10"	2.5
130	8'-6"	8'-6"	2.375
135	-	8'-2"	2.375
140	-	7'-11"	2.375
145	-	7'-7"	2.375
150	-	7'-4"	2.375
155	-	7'-2"	2.375
160	-	6'-11"	2.375
165	-	6'-8"	2.375
170	-	6'-6"	2.375
175	-	6'-4"	2.375
180	-	6'-2"	2.375
185	-	6'	2.375
190	-	5'-10"	2.375
195	-	5'-8"	2.375



INSTRUCTION:

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON VELOCITY, BUILDING HEIGHT, WIND ZONE USING APPLICABLY ASCE 7 STANDARD.

STEP 2 CHECK SHUTTER CAPACITY FOR A GIVEN SHUTTER SPAN USING CHARTS ON SHEET 3. MAX. DESIGN LOAD FROM CHART HAS TO BE GREATER THAN DESIGN WIND LOAD FROM STEP 1.

STEP 3 USING CHARTS ON SHEET 4 THRU SHEET 10 SELECT ANCHOR TYPE AND SPACING BASED ON DESIGN LOAD AND SHUTTER SPAN FOR THE ANCHOR DETAIL USED.

FLORIDA APPROVAL:
FL#29956.1

YIPING WANG
FLORIDA PROFESSIONAL ENGINEER
No. 85983
August 28th, 2026

REVISIONS		DESCRIPTION
NO. DATE	R2 11.08.2023	PFC UPDATE 2023
	R3 08.28.2026	REVISION

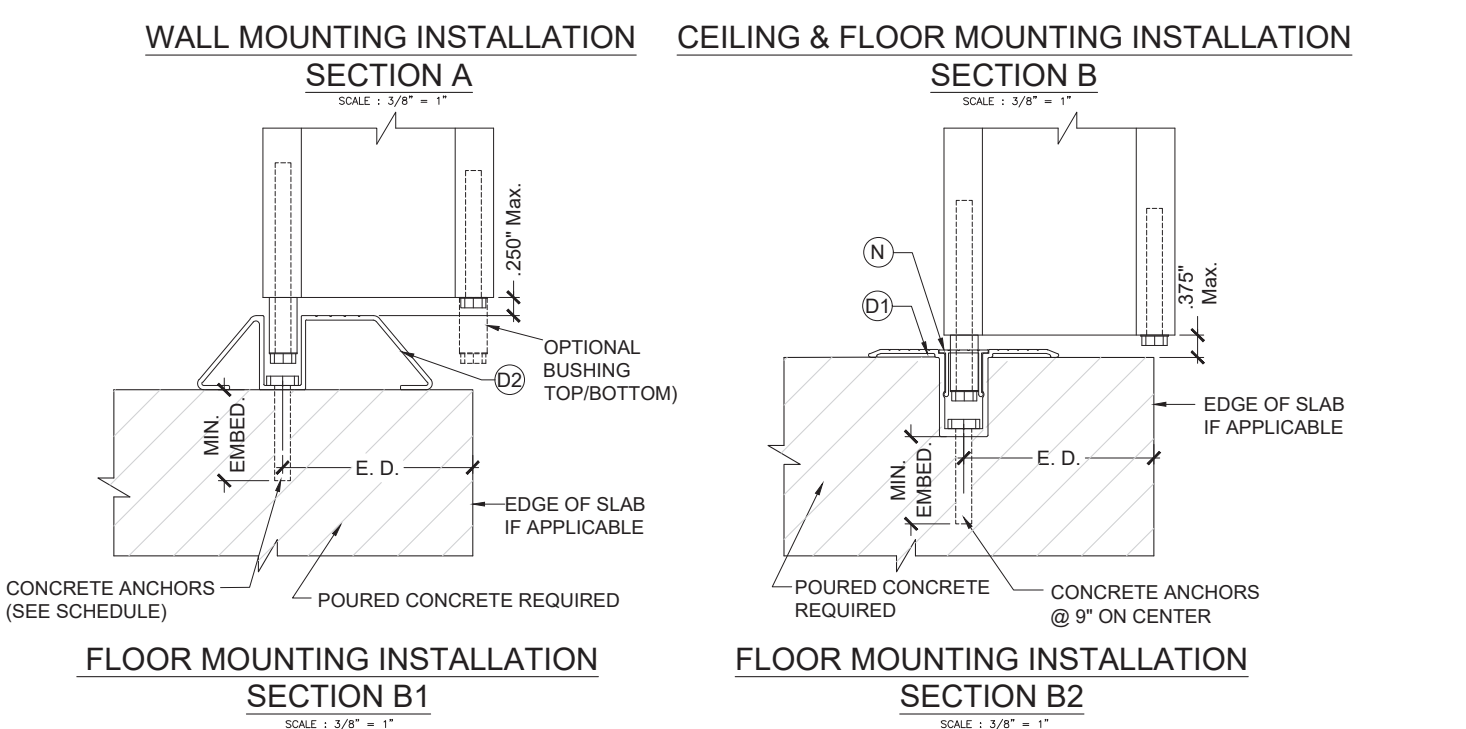
MCY ENGINEERING, INC.
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14475 NW 26th Avenue
Opa Locka, FL 33054
Tel: 305-586-7440

DATE	06.28.2026
SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.
AD19-01

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NOTE:
FOR LIGHT DUTY SHUTTER ON SHEET 9,
MAX. SPACING SHOULD BE LIMITED TO 6"
O.C.

FLORIDA APPROVAL:

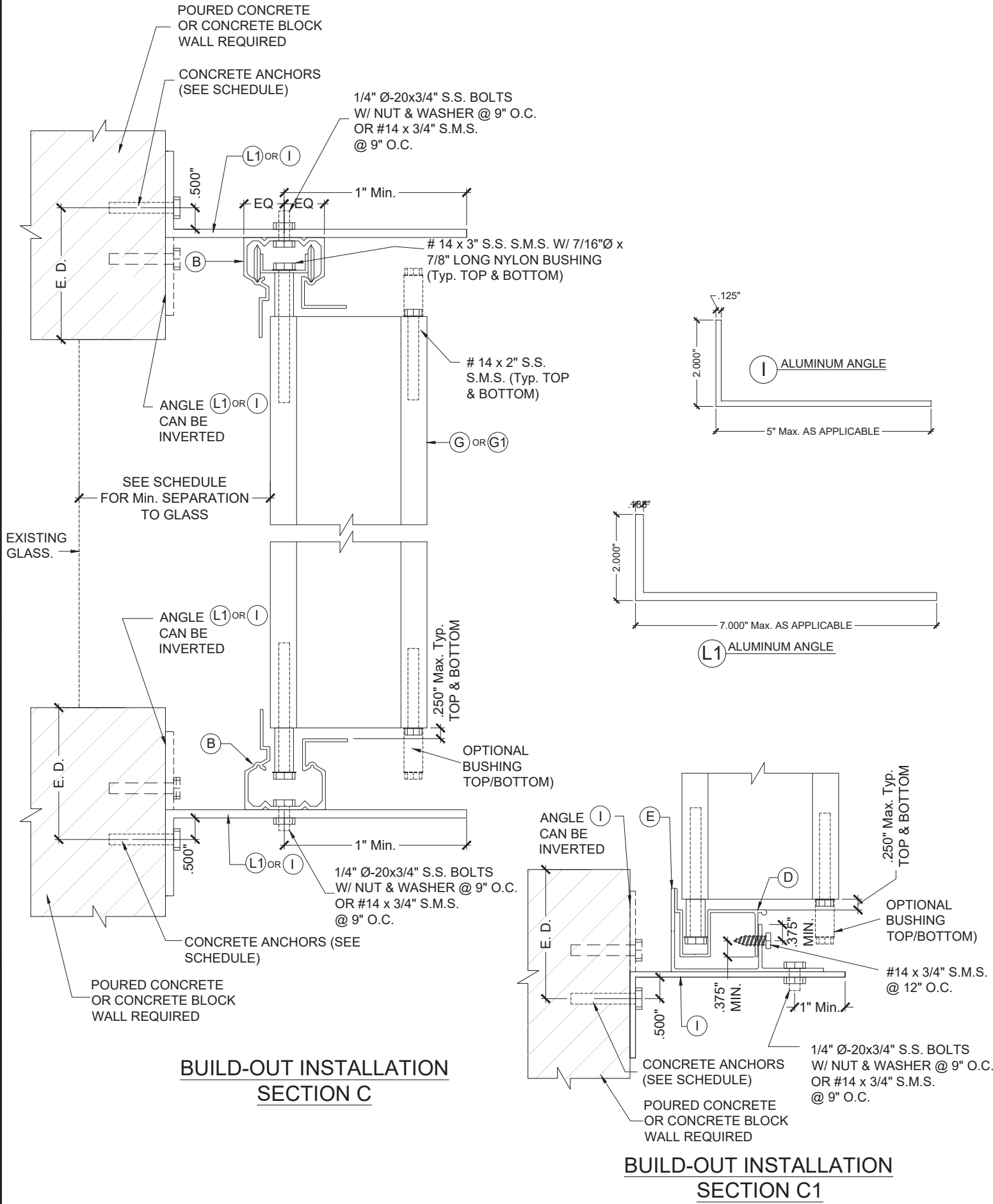
FL#29956.1

YIPING WANG
FLORIDA REGISTRATION
LICENSE #55983
C.E.#55983
No. 5598377

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

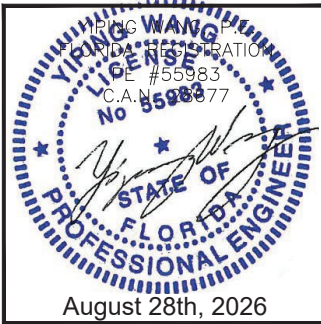
August 28th, 2026

MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 Miramar Parkway Suite 301 Miramar FL 33027 P: 305 588 5224 www.MCYEngineering.com mcy@mcyengineering.com		<table border="1"> <tr> <th colspan="2">REVISONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> </tr> <tr> <td>R2</td> <td>11.08.2023</td> </tr> <tr> <td>R3</td> <td>08.28.2026</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>	REVISONS		NO.	DATE	R2	11.08.2023	R3	08.28.2026						
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DRAWING NO.																
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MAXIMUM DESIGN PRESSURE RATING "Pd" (PSF) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +													
MAXIMUM DESIGN LOAD "Pd" (PSF)	SHUTTER SPAN (INCH)	SECTION C TOP/BOTTOM						SECTION C1 BOTTOM					
		SUBSTRATE CONCRETE			SUBSTRATE BLOCK			SUBSTRATE CONCRETE			SUBSTRATE BLOCK		
		ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE A1	ANCHOR TYPE B1	ANCHOR TYPE C1	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE C	ANCHOR TYPE A1	ANCHOR TYPE B1	ANCHOR TYPE C1
60	60	6	6	6	4	5.5	8.1	6	6	6	4	6	8.1
	78	6	6	6	3	4.5	6.3	6	6	6	3	4.5	6.3
	96	6	6	6	-	3.5	5.1	6	6	6	-	4	5.1
	120	6	6	6	-	-	4.1	6	6	6	-	3	4.1
	144	6	6	6	-	-	3.4	6	6	6	-	-	3.4
	154	6	6	6	-	-	3.2	6	6	6	-	-	3.2
65	60	6	6	6	3.7	5	7.5	6	6	6	3.7	5.5	7.5
	78	6	6	6	-	4	5.8	6	6	6	-	4.5	5.8
	96	6	6	6	-	3	4.7	6	6	6	-	3.5	4.7
	120	6	6	6	-	-	3.8	6	6	6	-	-	3.8
	148	6	6	6	-	-	3.1	6	6	6	-	-	3.1
70	60	6	6	6	3.4	5	7	6	6	6	3.4	5.5	7
	78	6	6	6	-	3.5	5.4	6	6	6	-	4	5.4
	96	6	6	6	-	3	4.4	6	6	6	-	3	4.4
	120	6	6	6	-	-	3.5	6	6	6	-	-	3.5
	143	6	6	6	-	-	-	6	6	6	-	-	-
80	60	6	6	6	-	4	6.1	6	6	6	-	4.5	6.1
	78	6	6	6	-	3	4.7	6	6	6	-	3.5	4.7
	96	6	6	6	-	-	3.8	6	6	6	-	3	3.8
	120	6	6	6	-	-	3.1	6	6	6	-	-	3.1
	134	6	5.5	6	-	-	-	6	6	6	-	-	-
100	60	6	6	6	-	3.5	4.9	6	6	6	-	3.5	4.9
	78	6	6	6	-	-	3.8	6	6	6	-	-	3.8
	96	6	6	6	-	-	3.1	6	6	6	-	-	3.1
	120	5	5	5.5	-	-	-	5	5.5	6	-	-	-
120	60	6	6	6	-	-	4	6	6	6	-	-	4.1
	78	6	6	6	-	-	3	6	6	6	-	-	3.1
	96	5	5	5.5	-	-	-	5	5.5	6	-	-	-
	107	4.5	4.5	5	-	-	-	5.5	5	5.5	-	-	-
140	60	6	6	6	-	-	3.5	6	6	6	-	-	3.5
	78	5.5	5.5	6	-	-	-	5.5	6	6	-	-	-
	95	4.5	4.5	5	-	-	-	4.5	5	5	-	-	-
160	60	6	6	6	-	-	3.0	6	6	6	-	-	3.1
	78	4.5	4.5	5	-	-	-	4.8	5	5.5	-	-	-
	83	4.5	4.5	5	-	-	-	4.5	5	5	-	-	-
180	60	5.5	5.5	6	-	-	-	5.6	6.1	6	-	-	-
	66	5	5	5.5	-	-	-	5	5.5	6	-	-	-
	74	4.5	4.5	5	-	-	-	4.5	5	5	-	-	-
195	60	5	5	5.5	-	-	-	5	5.5	6	-	-	-
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FLORIDA APPROVAL:
FL#29956.1



REVISIONS

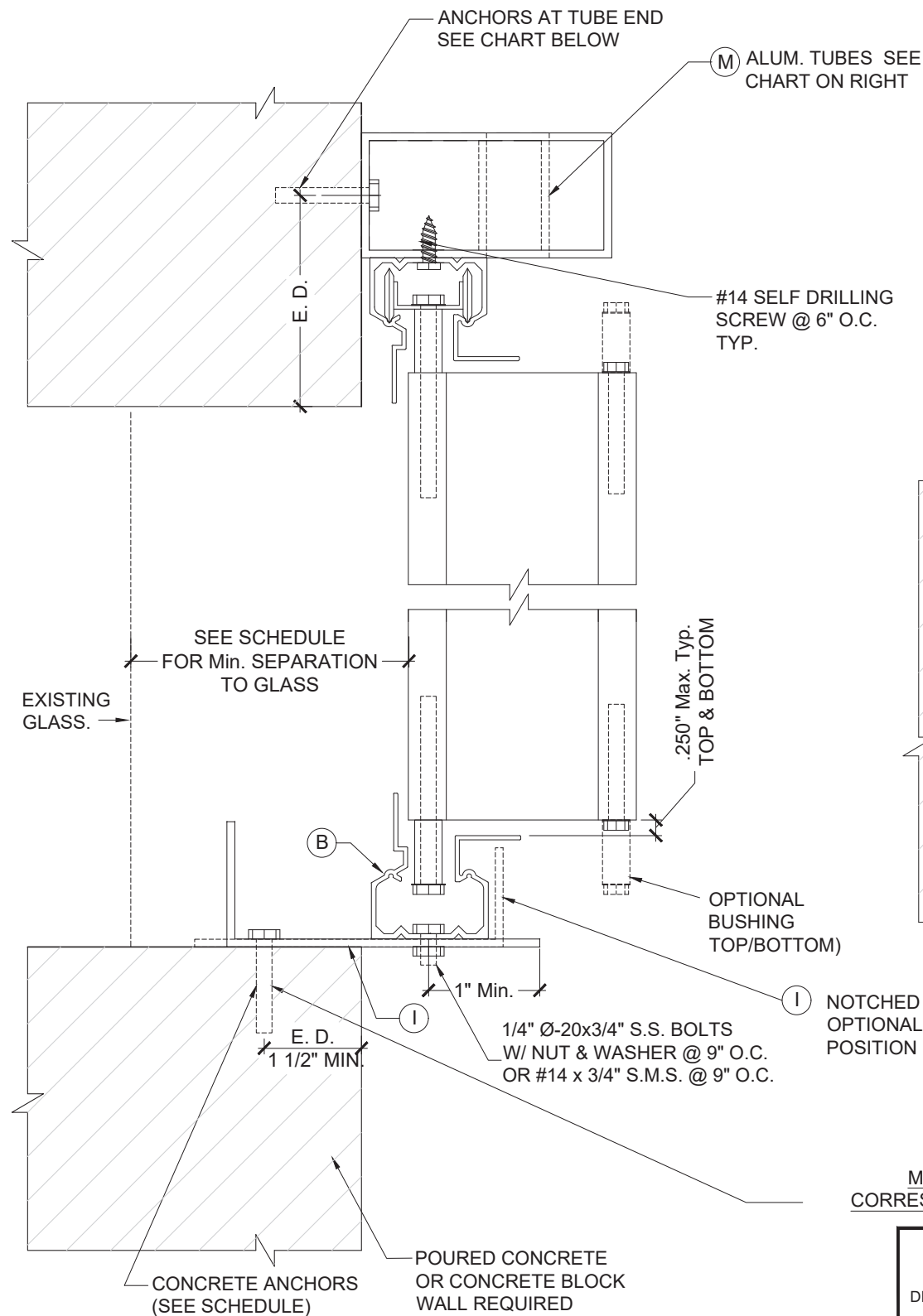
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R3	08.28.2026	REVISION

MCY

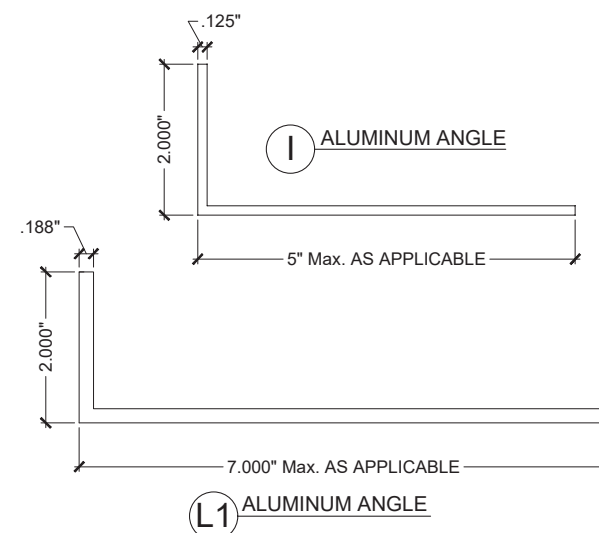
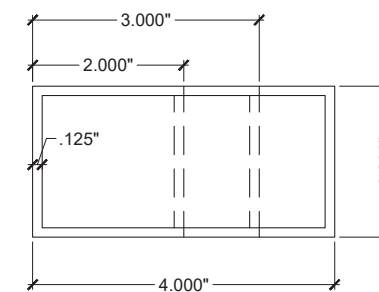
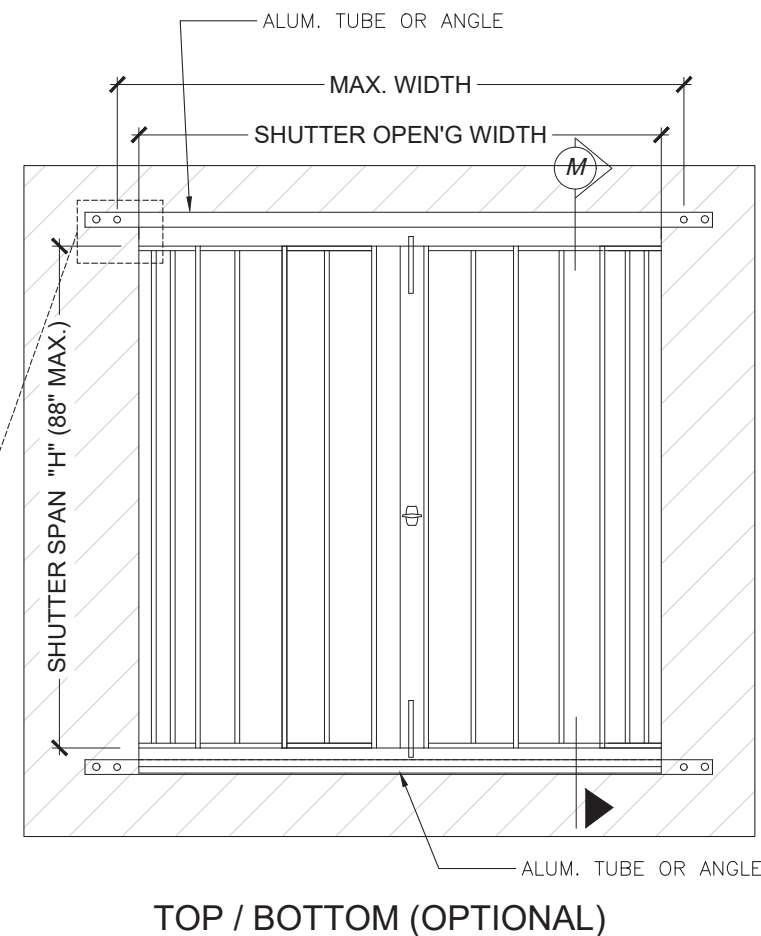
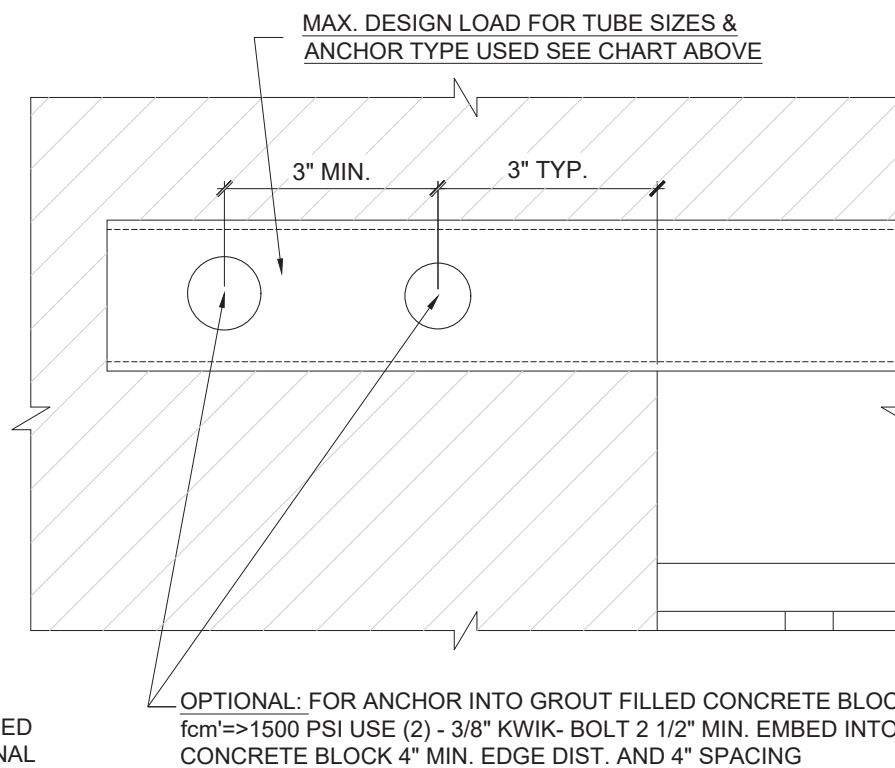
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Aluminum Products Manufacturers Association, Inc.(A.P.M.A.)
14475 NW 26th Avenue
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Tel: 305-586-7440

DATE	06.28.2026
SCALE	AS SHOWN
DRAWN	James
PROJECT	
DRAWING NO.	AD19-01
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ALUM. TUBE SIZE	OPEN'G WIDTH	MAX. HEIGHT	DESIGN LOAD (PSF)	
			ANCHOR TYPE "A"	ANCHOR TYPE "C"
2"x2"x1/8"	42"	88"	65	65
2"x3"x1/8"	60"	88"	65	65
	78"	88"	57.3	62
2"x4"x1/8"	78"	84"	60	65
	78"	77"	65	65



MAXIMUM DESIGN PRESSURE RATING "Pd" (PSF) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +

MAXIMUM DESIGN LOAD "Pd" (PSF)	SHUTTER SPAN (INCH)	SECTION M BOTTOM	
		SUBSTRATE CONCRETE	
		ANCHOR SPACING (in.)	
		ANCHOR TYPE A	ANCHOR TYPE C
65	60"	8.5	9
	72"	7	7.5
	84"	6	6.5
	88"	5.5	6

BUILD-OUT INSTALLATION SECTION M

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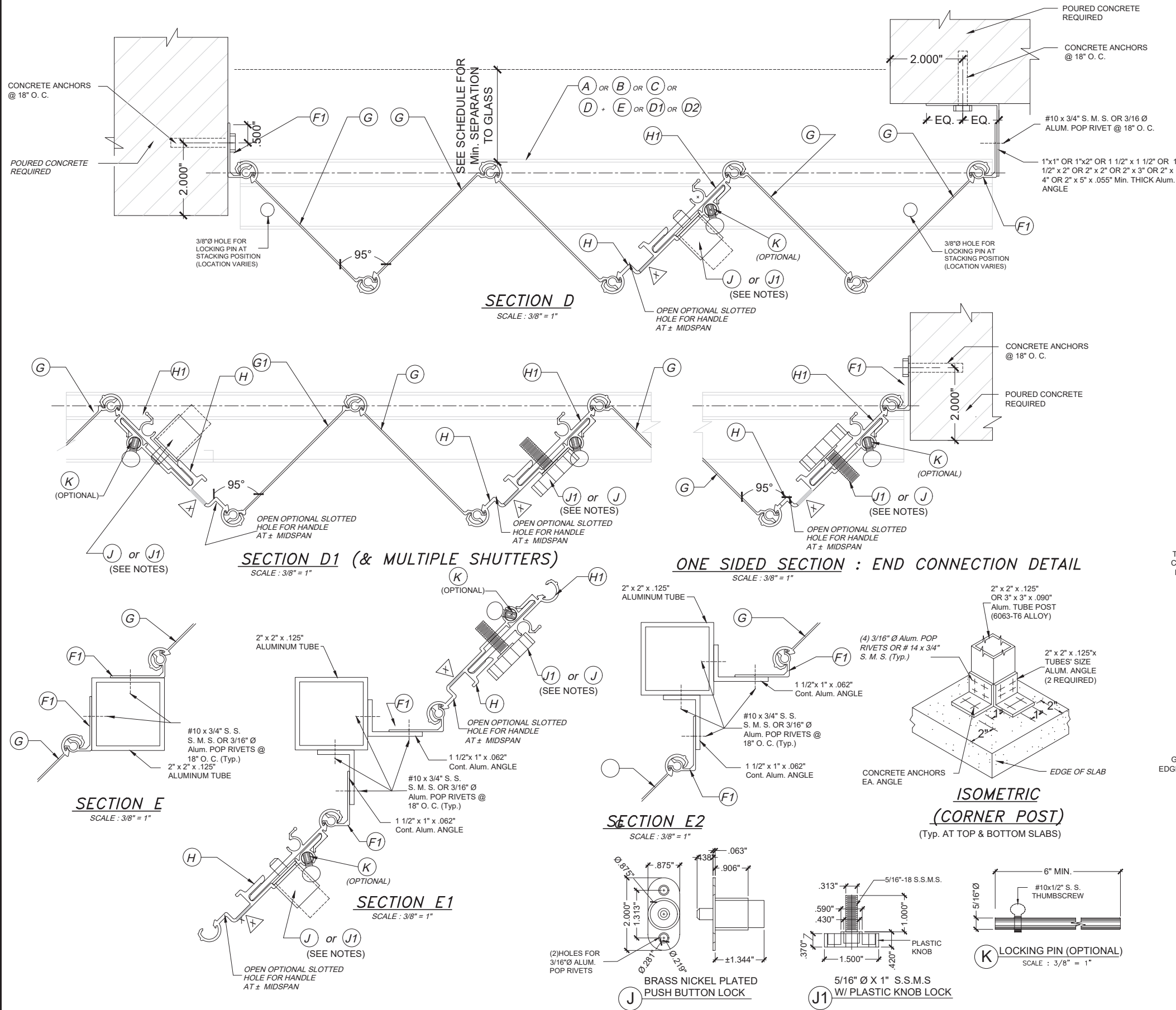
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Opa Locka, FL 33054
Tel: 305-586-7440

FLORIDA APPROVAL:
FL#29956.1

YIPING WANG
FLORIDA PROFESSIONAL ENGINEER
No. 55983
August 28th, 2026

DATE	06.28.2026
SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.
AD19-01

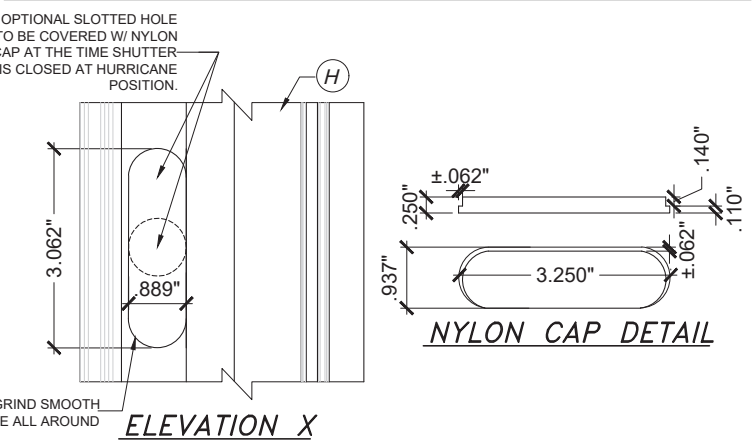


NOTES FOR LOCKING OF (H) & (H1)

1-PUSH BOTTOM LOCK (J) MAY BE USED FOR INSTALLATIONS SECURED FROM THE OUTSIDE OR INSIDE OF SHUTTER. WHEN INSTALLING (J) FROM THE OUTSIDE, A 7/8"Ø HOLE SHALL BE DRILLED AT (H) AND (J) MUST BE RIVETED FROM THE BACK OF (H) TO THE FRONT W/ (2)3/16"Ø ALUM. POP RIVETS. A 3/8"Ø HOLE MUST THEN BE DRILLED AT (H1) TO ALLOW FOR (J)'S PIN TO PASS THRU. WHEN INSTALLING (J) FROM THE INSIDE, (J) MUST BE RIVETED TO (H1) W/ (2)3/16"Ø ALUM. POP RIVETS. A 3/8"Ø HOLE MUST THEN BE DRILLED THRU (H) AND (H1) TO ALLOW FOR (J)'S PIN TO PASS THRU.

2-5/16"x1" LOCK (J1) MAY BE USED ALTERNATIVELY TO (J) LOCK FOR INSTALLATIONS SECURED FROM THE OUTSIDE OR INSIDE OF SHUTTER. IN THIS CASE, A 5/16"Ø HOLE SHALL BE DRILLED THRU (H) AND (H1). HOLE DRILLED TO (H1) SHALL BE TAPPED TO ACCEPT 18 THREADS PER INCH MACHINE SCREW.

NOTE:
END CONDITIONS SHOWN CAN BE INTERCHANGEABLE.



FLORIDA APPROVAL:

FL#29956.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
No. 55983
C.A.N. 8598377

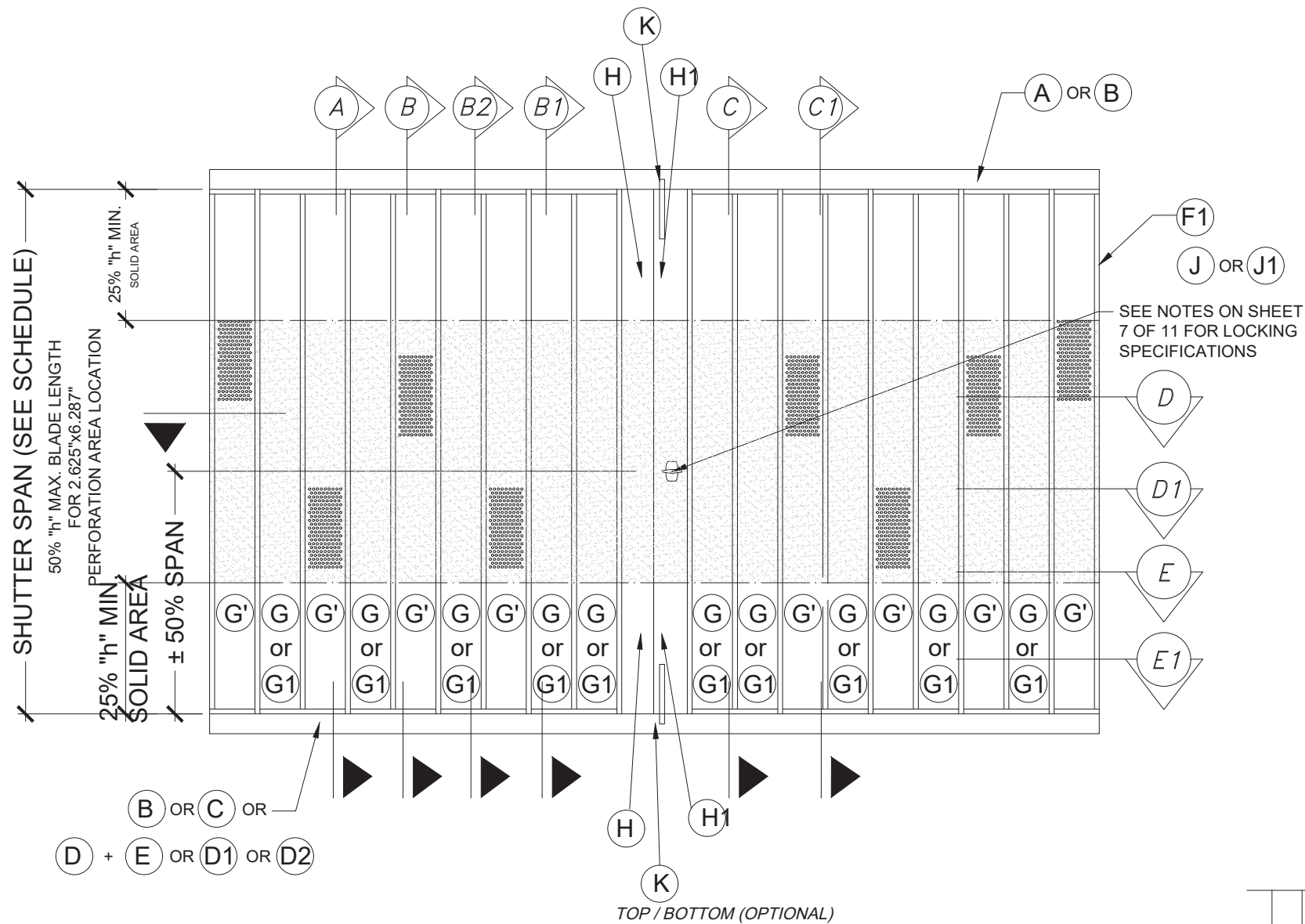
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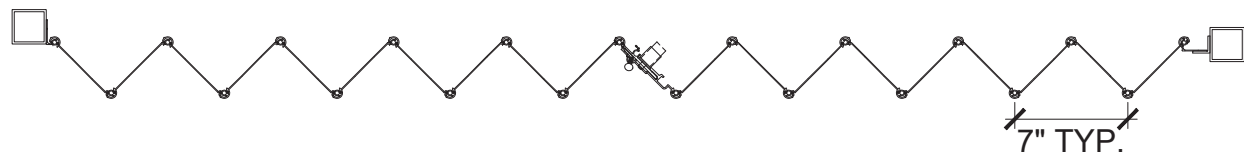
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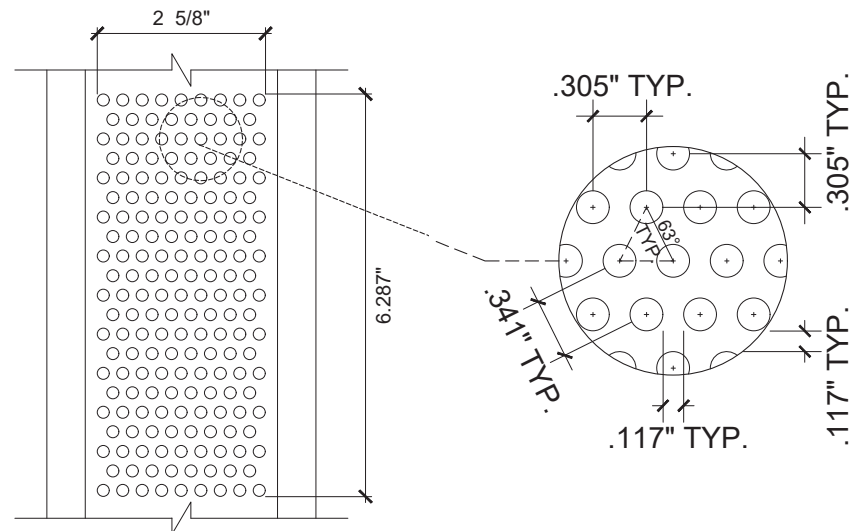
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TYPICAL ELEVATION



TYPICAL SHUTTER PLAN



TYPICAL G' PERFORATED
BLADE ELEVATION

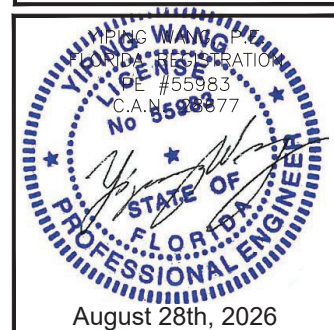
GENERAL LIMITATIONS AND CONDITIONS OF USE FOR
G OR G1 BLADE ACCORDIAN SHUTTER SYSTEM
WORKING IN UNISON WITH G' BLADES.

1. MAXIMUM SHUTTER SPAN AND PRESSURE RATING, MAXIMUM ANCHOR SPACING AND MINIMUM SEPARATION TO GLASS FOR G' AND G1' WORKING IN UNISON WITH G AND G1 ARE AS PER SCHEDULES ON SHEET 3, 4, 5 & 9.
2. MAXIMUM PERFORATION AREA AT G', G1' IS $\pm 2.625" \times 6.28"$ AND MUST BE LOCATED WITHIN THE CENTRAL 50% OF THE BLADE SPAN.

PERFORATED BLADES G, G1 MUST BE SOLID AT THE TOP AND BOTTOM 25% OF BLADES SPAN.
3. PERFORATED BLADES G', G1' SHALL BE INSTALLED AT EVERY OTHER BLADE (FREQUENCY).
4. CENTERMATES H, H1 MUST ALWAYS BE ACCOMPANIED BY TWO SOLID BLADES G, G1 AT EITHER SIDE OF EACH CENTERMATE.
5. STARTERS AND CENTERMATES MUST BE ALWAYS SOLID.
6. STARTERS CONNECTION TO EXISTING BUILDING OR TO END/CORNER TUBES MUST BE AS PER DETAILS INDICATED ON SHEET 7.

SECTION S-S THRU G MALE/FEMALE BLADE

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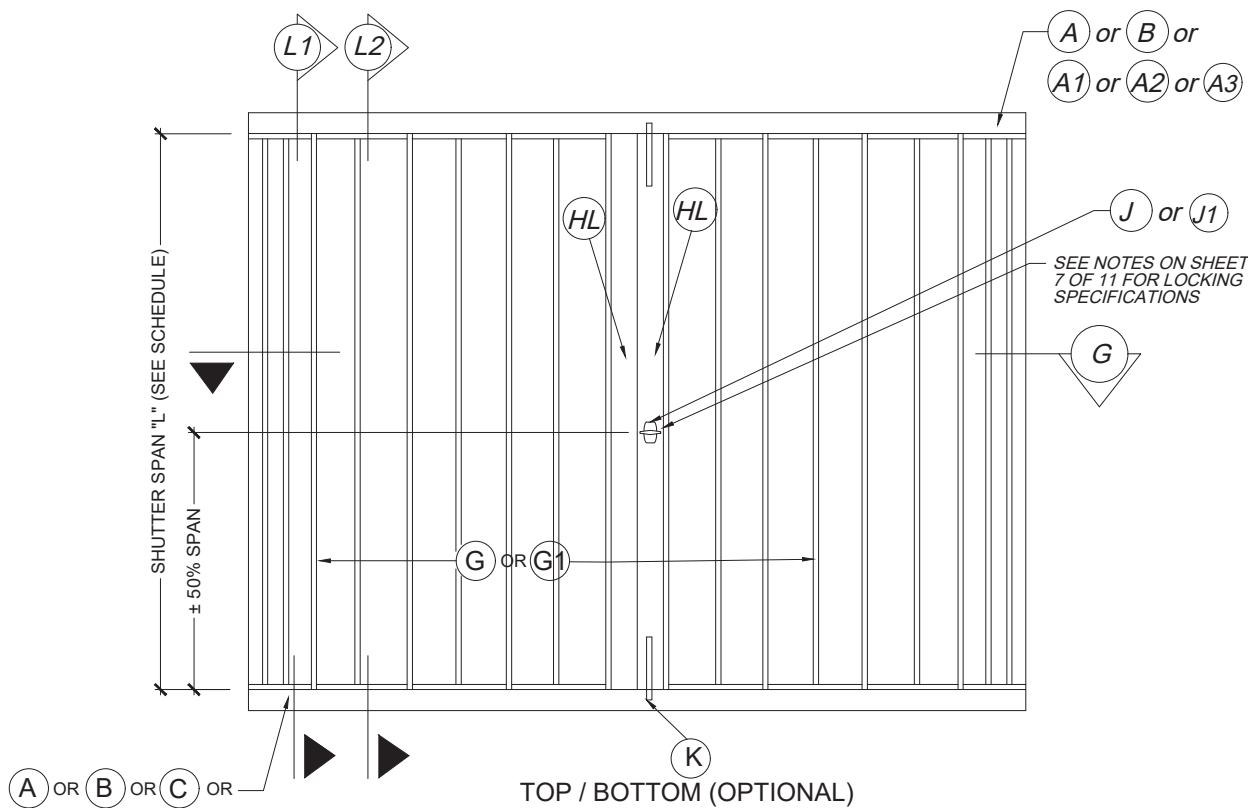
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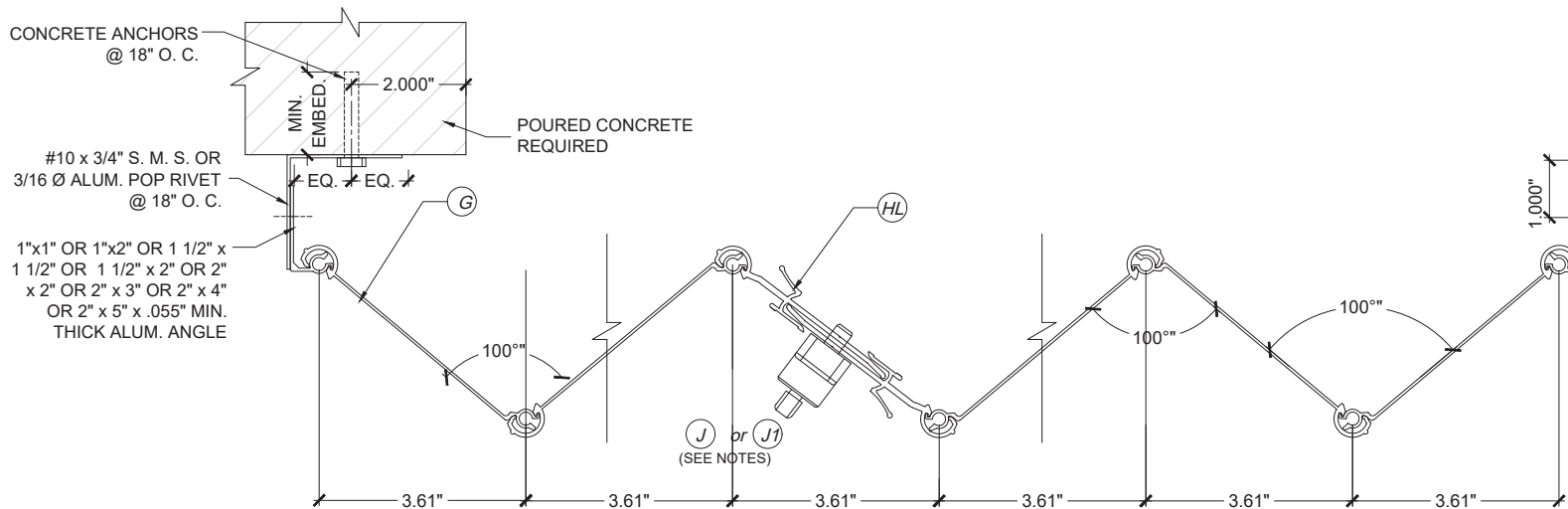
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LIGHT DUTY SHUTTER WALL MOUNT, CEILING AND FLOOR INSTALLATIONS
W/ A1, A2, A3 TRACKS, CENTERMATE HL & BLADES G, G1

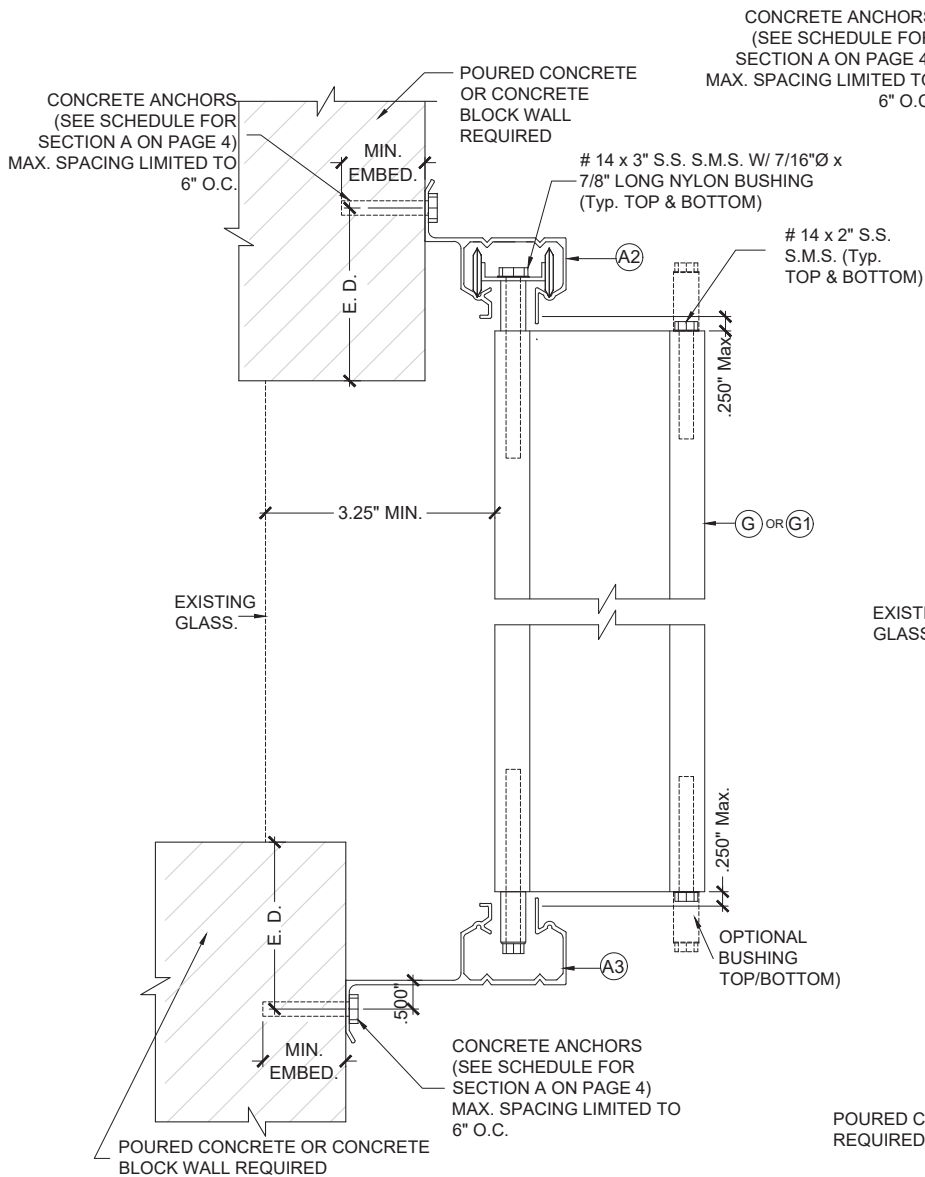


NOTE:
END CONDITIONS SHOWN
CAN BE INTERCHANGEABLE.

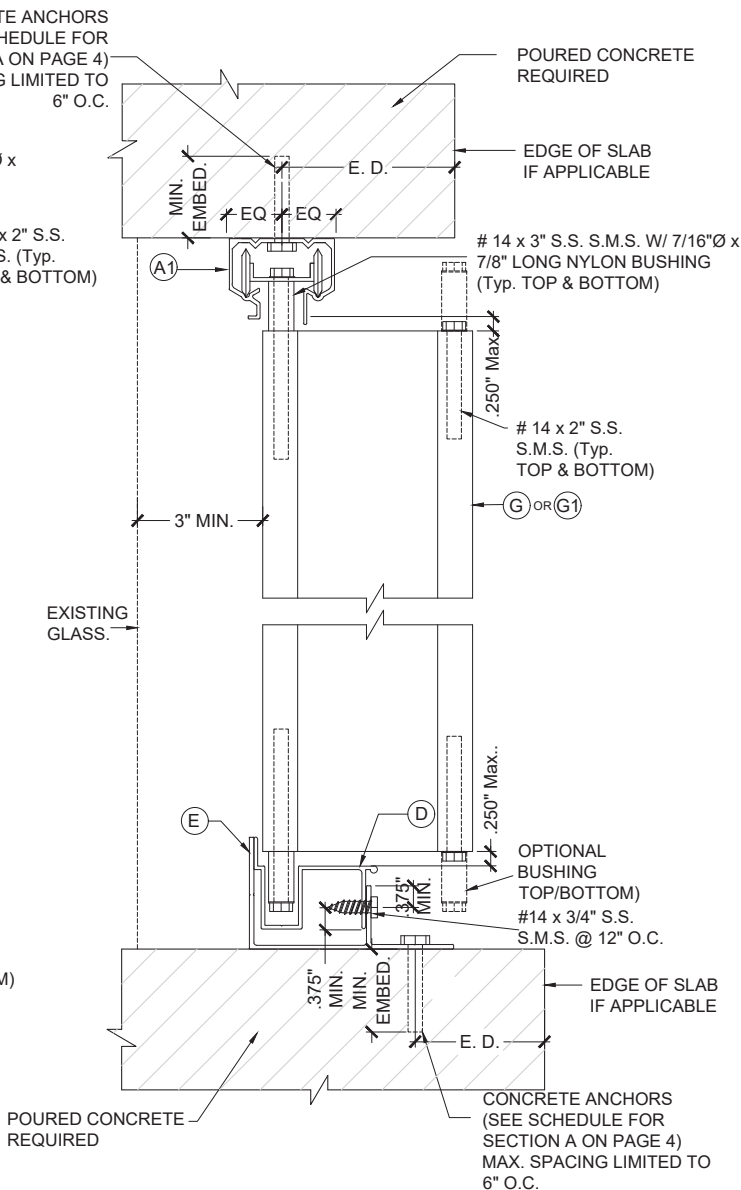
MAX. SHUTTER SPAN "L"	MAX. DESIGN PRESSURE
60"	+/- 75 PSF
108"	+/- 70 PSF



SECTION G-G



WALL MOUNTING INSTALLATION
SECTION L1

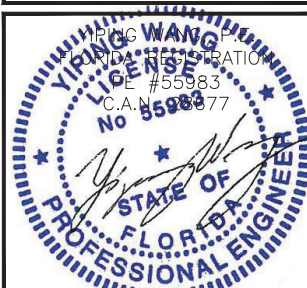


CEILING & FLOOR MOUNTING INSTALLATION
SECTION L2

SCALE : 3/8" = 1"

LIGHT DUTY SYSTEM

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August 28th, 2026

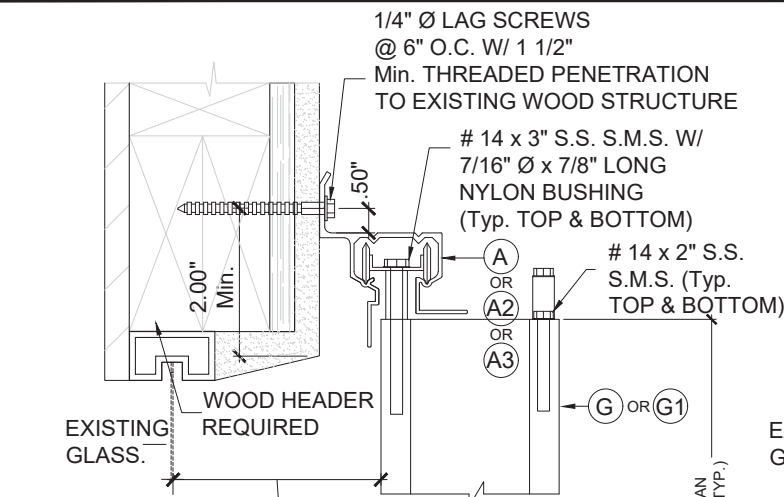
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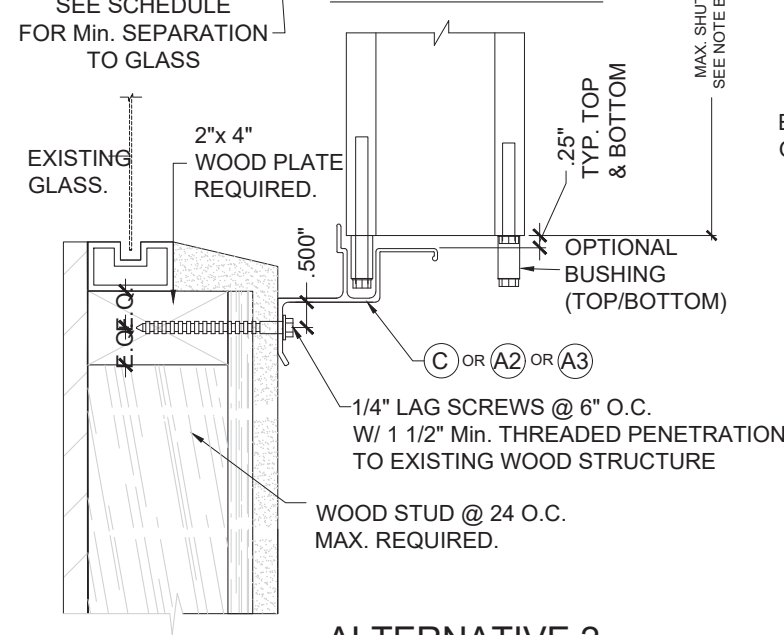
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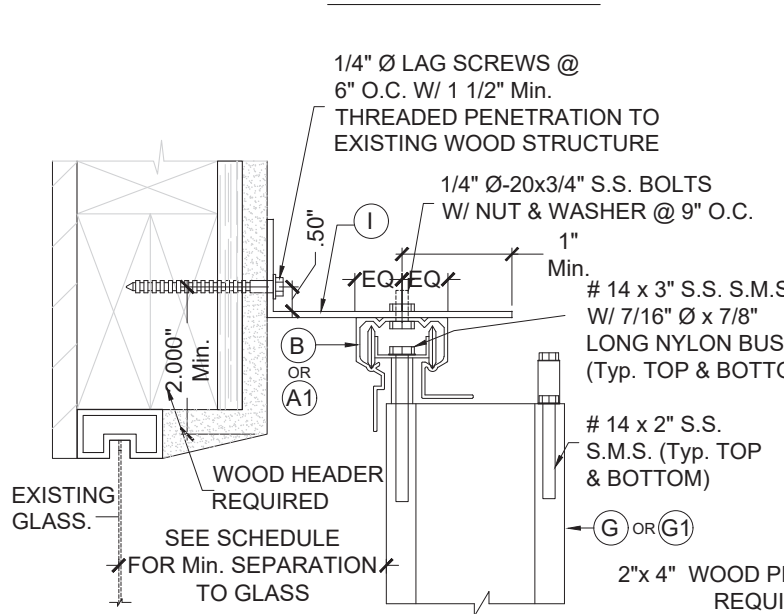
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ALTERNATIVE 1



ALTERNATIVE 2



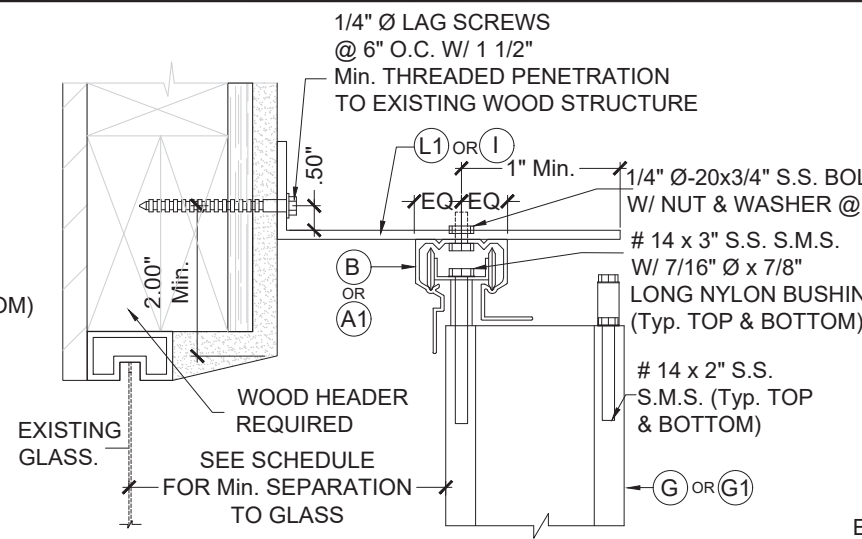
ALTERNATIVE 3

WALL MOUNTING INSTALLATION (OFFSET)

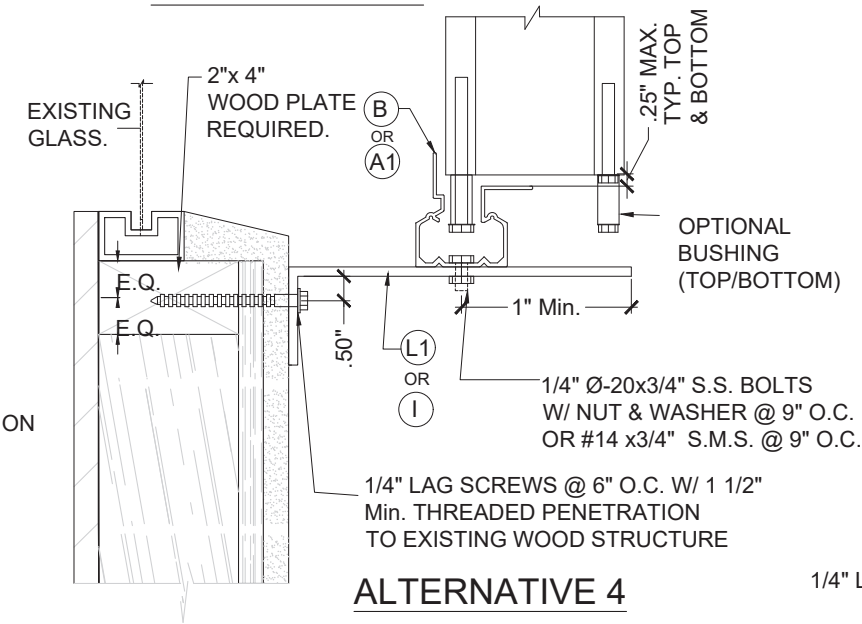
SECTIONS A

SCALE: 1/4"=1"

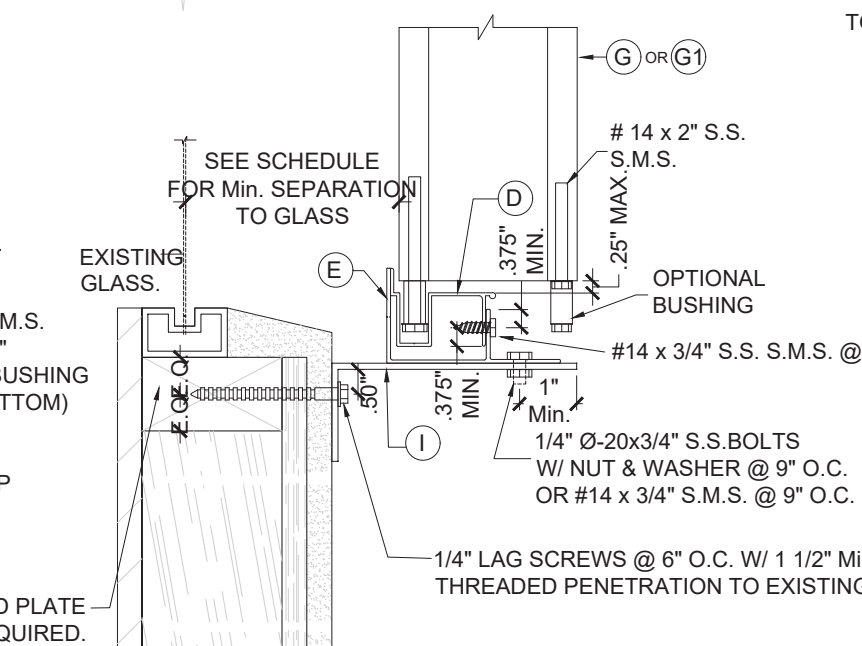
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



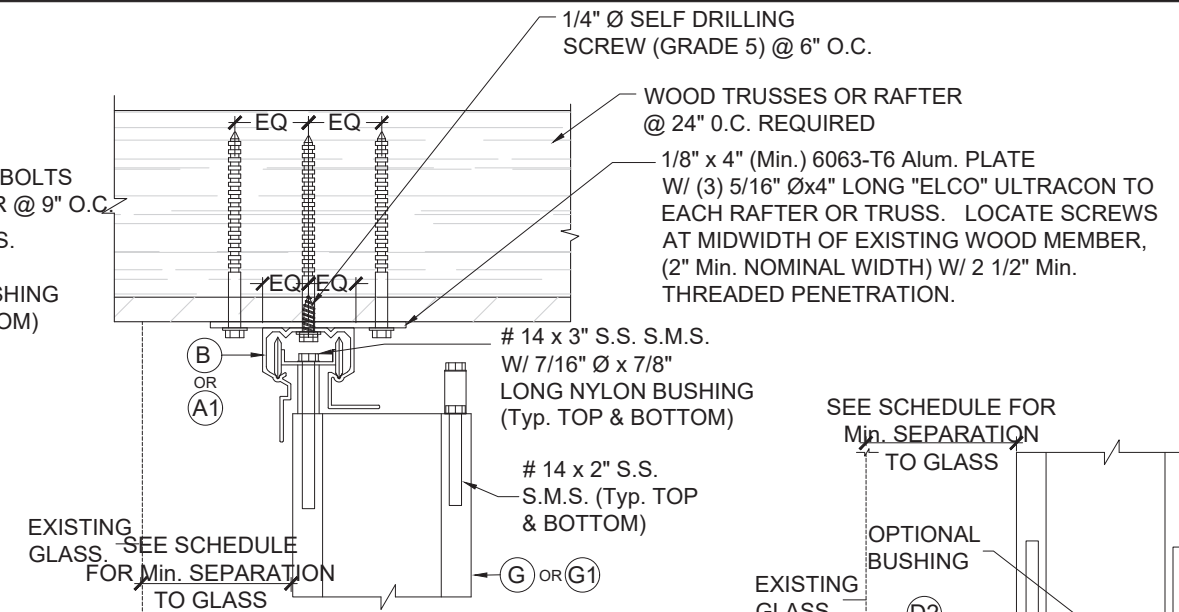
ALTERNATIVE 4



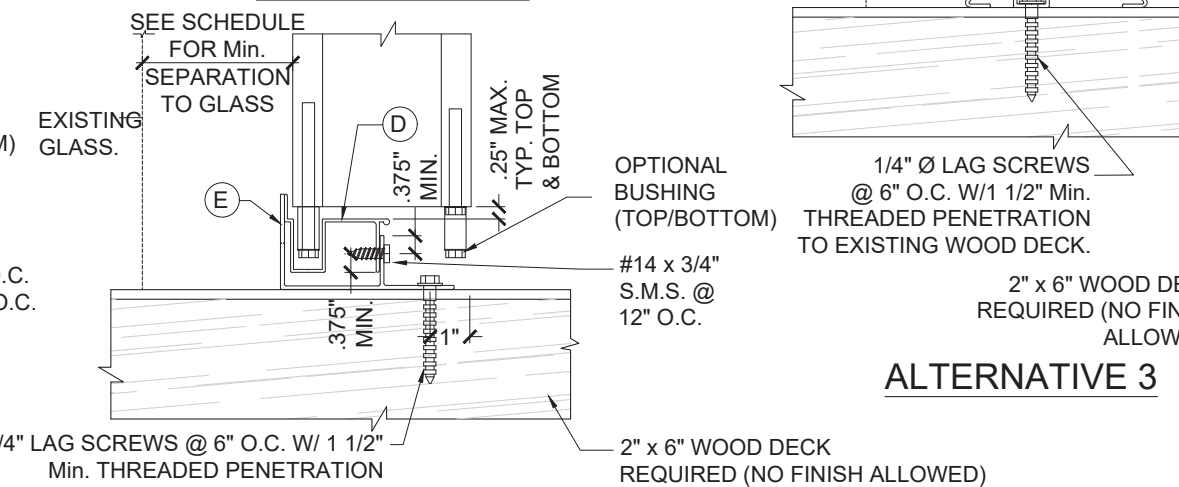
ALTERNATIVE 5



ALTERNATIVE 6



ALTERNATIVE 7



ALTERNATIVE 8

WALL MOUNTING INSTALLATION (OFFSET)

SECTIONS B

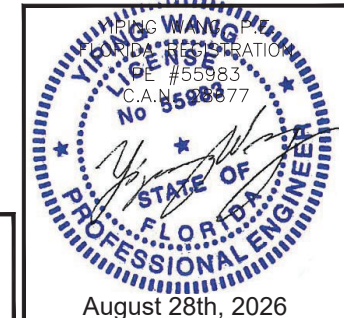
SCALE: 1/4"=1"

NOTE:
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS THAN OR EQUAL TO 70 p.s.f. AND 9'-0" Max. SHUTTER SPAN.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL/GREATER.

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