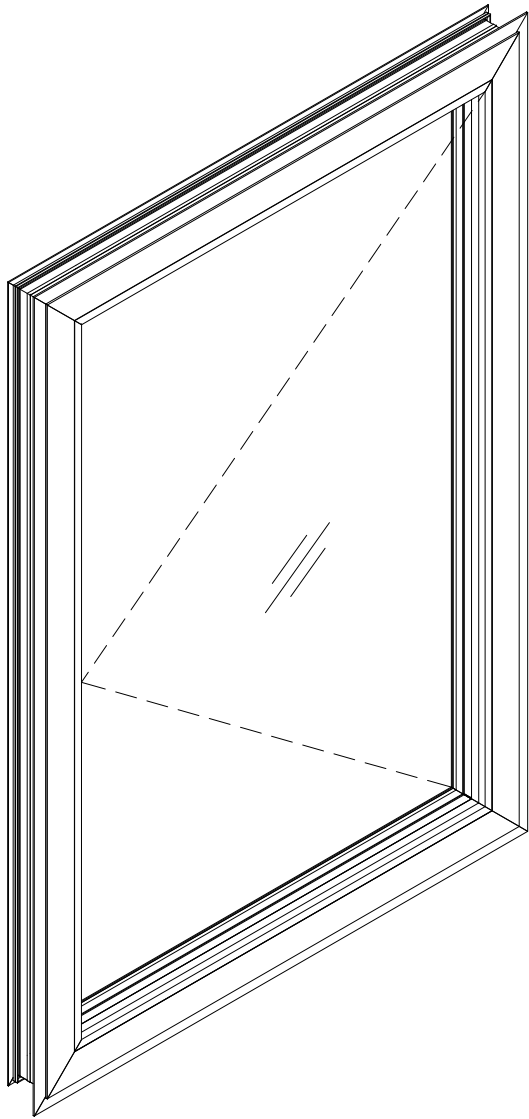


SHEET INDEX	
01	COVER PAGE
02	TYP. ELEV. / GLASS DET. / ANCHORS
03	SECTION DETAILS
04	SECTION DETAILS
05	PROFILE DETAIL / BILL OF MATERIAL
06	INSTALLATION DETAILS
TO OBTAIN AUTOCAD/REVIT COMPATIBLE DETAILS OF THIS PRODUCT, KINDLY GET IN TOUCH WITH US CONTACTING US VIA OUR OFFICIAL EMAIL ADDRESS: CONTACT@JA-PE.COM.	

ALUMINUM CASEMENT WINDOW

(*LARGE & SMALL MISSILE IMPACT*) (*HVHZ*)



GENERAL NOTES

1. THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE IN HIGH VELOCITY HURRICANE ZONE PER TAS 201/202/203..

2. THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.

3. THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).

4. THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES. IT IS CONFIRMED TO BE RESISTANT TO LARGE MISSILE IMPACT, THEREBY NOT NECESSITATING THE USE OF IMPACT-RESISTANT SHUTTERS.

5. THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD=1.6 HAS BEEN EMPLOYED.

6. THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES. COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.
7. THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE, A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.

8. THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).

9. THE SUBSTITUTION OF FASTENERS DESCRIBED IN THIS CERTIFICATION IS PERMISSIBLE, PROVIDED THE ALTERNATIVE ANCHOR EXHIBITS STRENGTH EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE GRANTED BY RELEVANT AUTHORITIES.

10. THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (FU = 74,000 PSI).

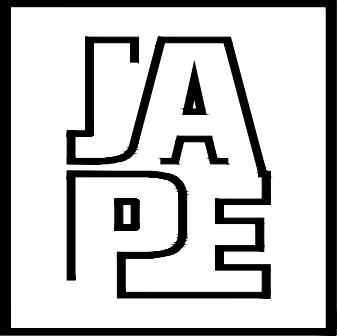
11. THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY. ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.

12. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.

13. ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.
14. PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
15. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 02 FOR GLAZING DETAILS.
16. EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:

PLAZA DOOR COMPANY
4425 SW CARGO WAY
PALM CITY , FL 34990
PH: (561) 578-5450
info@plazadoorcompany.com

FL# 47001



JAVAD AHMAD PE, inc

7875 NW 12 Street, Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com

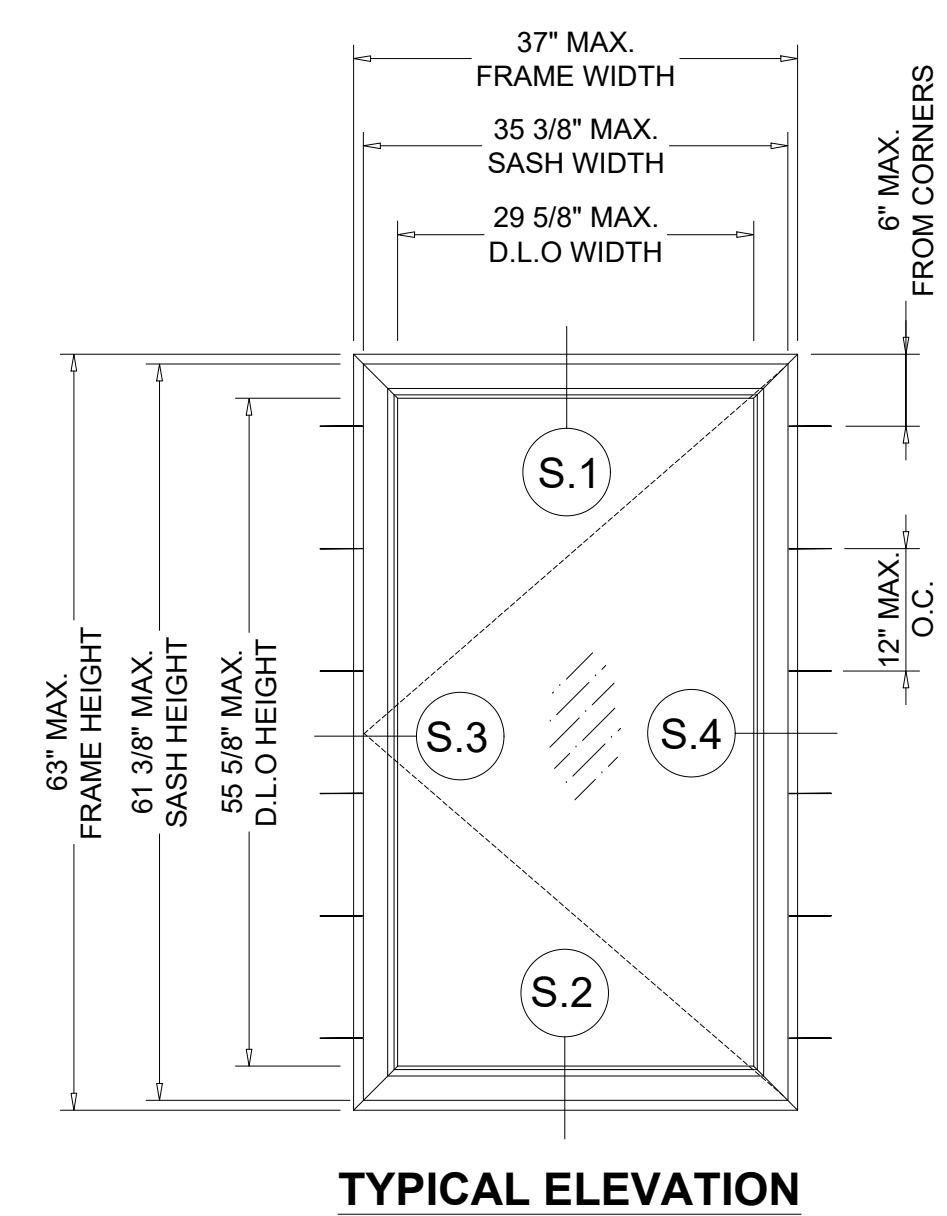
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :			
ALUMINUM CASEMENT WINDOW (IMPACT) (HVHZ)			
CLIENT :			
NUEVO FLORIDA VENTURE, LLC D/B/A PLAZA DOOR			
4425 SW CARGO WAY, PALM CITY FL 34990, UNITED STATES			
REVISION			
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check by:			
Drawing no.		JA-1463-24	
Eng: JAVAD AHMAD, PE CIVIL FLA. PE # 70592 — C.A.N. 34254			



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COVER PAGE	SHEET No. 01 OF 06
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GLAZING DETAILS / DESIGN PRESSURE				
GLASS TYPE	LAYER A	INTERLAYER	LAYER B	DESIGN PRESSURE
A (SR.4030)	1/8" ANNEALED GLASS	0.090" BUTACITE PVB INTERLAYER BY 'DUPOINT	1/8" ANNEALED GLASS	+60 / -65 PSF
B (SR.4031)	1/8" HEAT STREN'D GLASS	0.090" BUTACITE PVB INTERLAYER BY 'DUPOINT	1/8" HEAT STREN'D GLASS	+60 / -75 PSF
C (SR.4062)	3/16" HEAT STREN'D GLASS	0.090" SAFLEX CLEAR/COLOR INTERLAYER BY 'EASTMAN CHEMICAL CO.	3/16" HEAT STREN'D GLASS	+90 / -95 PSF

SUBSTRATE ANCHORS:

- A

1/4" DIA ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD / JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD, SILL & JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
- B

1/4" DIA ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONC.OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. (HEAD / SILL)
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)
- C

14 SMS OR SELF-TAPPING HWH SCREWS (GRADE 2)
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 12 GA. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- D

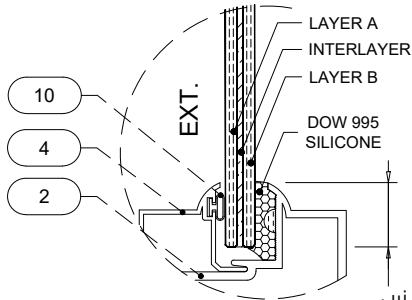
10 SMS OR SELF-TAPPING HWH SCREWS (GRADE 5)
INTO F.B.C. APPROVED MULLIONS
(3) THREAD MIN. PENETRATION BEYOND SUBSTRATE
0.090" MIN. THK. .
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL ANCHOR EDGE DISTANCES
INTO CONCRETE (3000 PSI MIN.) = 2-1/4" MIN.
INTO CMU BLOCKS (2000 PSI MIN.) AT JAMBS = 2-1/4" MIN.
INTO WOOD STRUCTURE (0.55 MIN. S.G.) = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

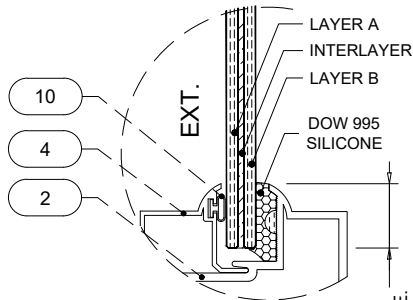
SUBSTRATE STRENGTHS:

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f_c = 3000 PSI MIN.
C-90 GROUT HOLLOW / FILLED - BLOCK
AT JAMBS f_m = 2000 PSI MIN.

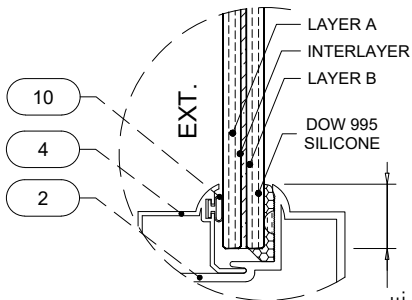
1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'PLAZA DOOR' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



GLASS TYPE 'A'
SERIES 4030
5/16" OVERALL LAMINATED GLASS

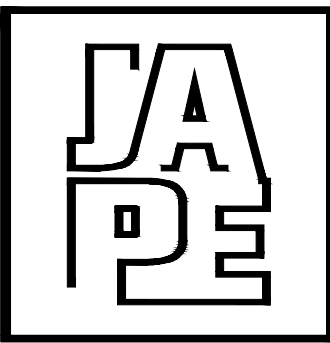


GLASS TYPE 'B'
SERIES 4031
5/16" OVERALL LAMINATED GLASS



GLASS TYPE 'C'
SERIES 4062
7/16" OVERALL LAMINATED GLASS

FL# 47001



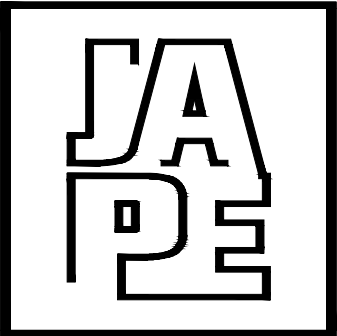
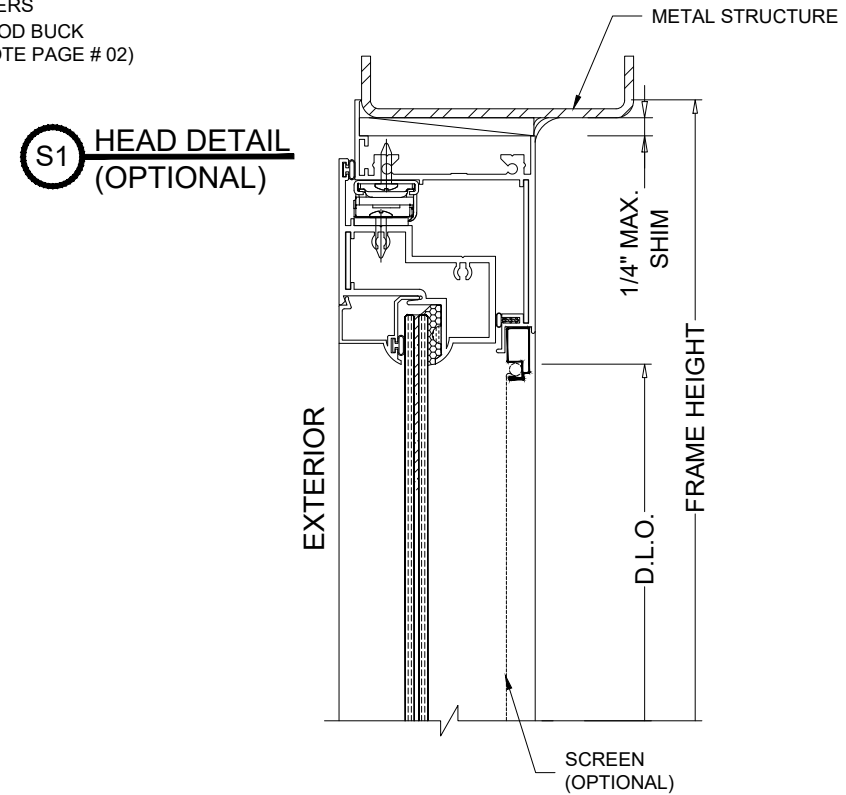
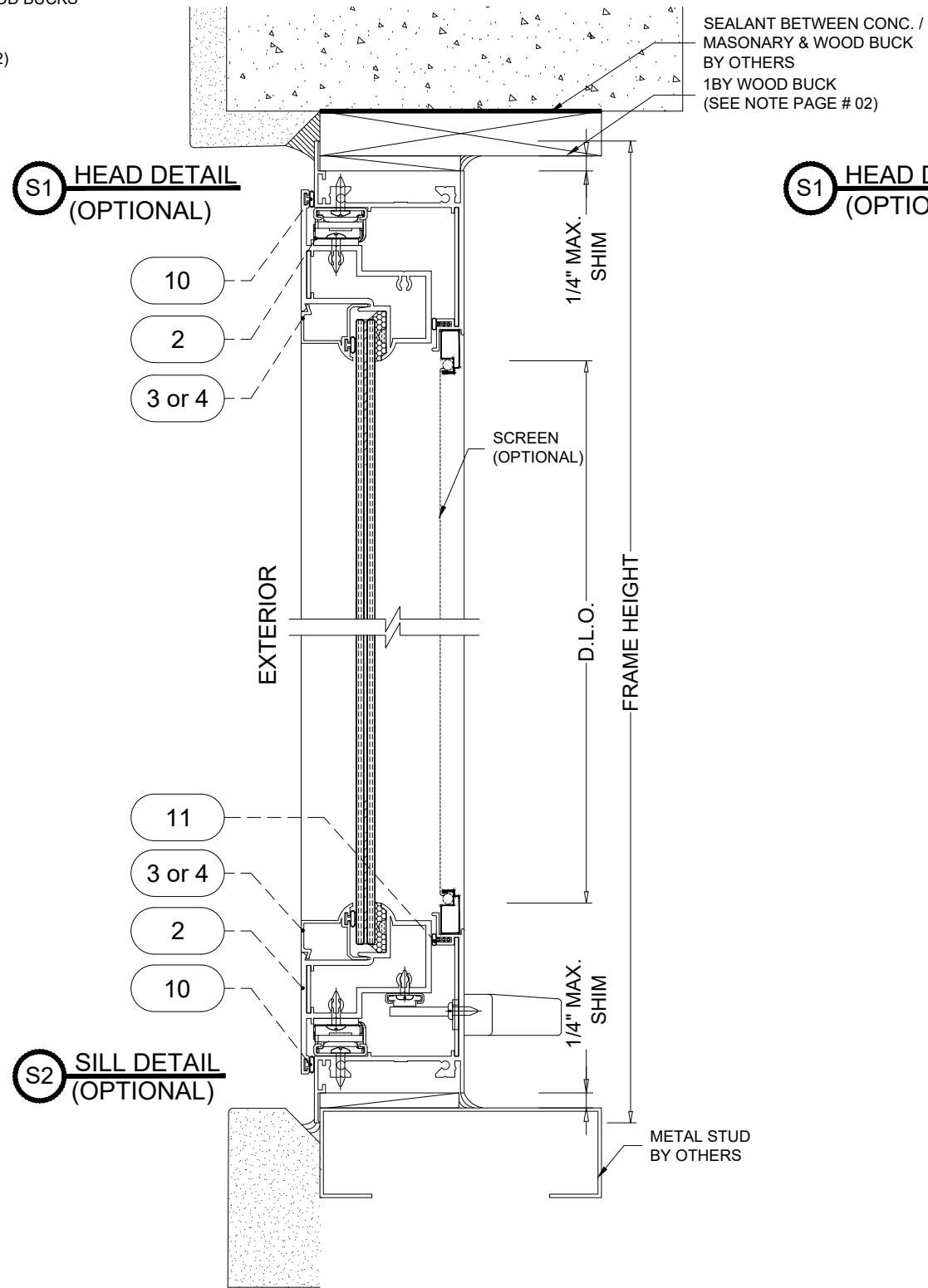
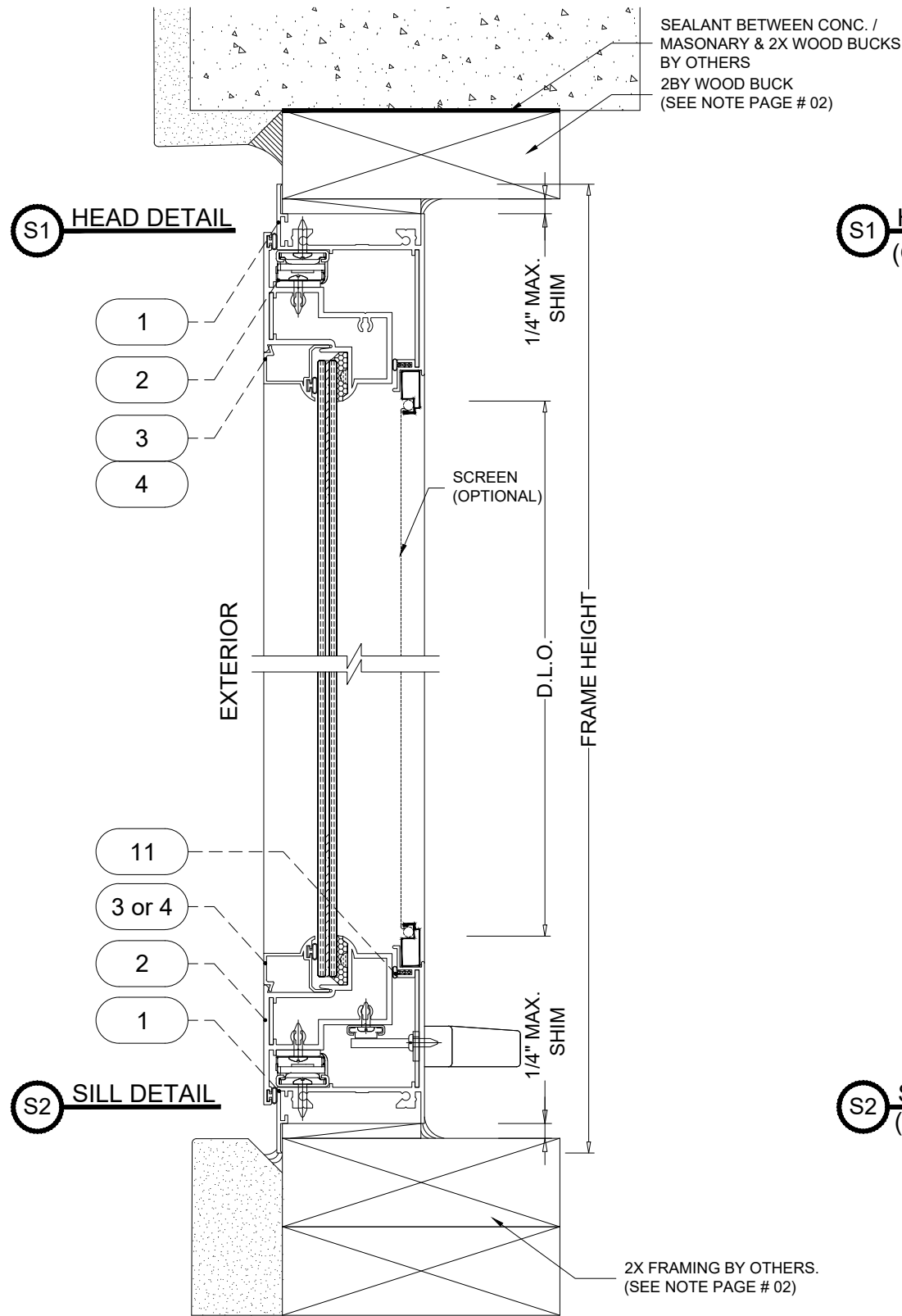
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7875 NW 12 Street, Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

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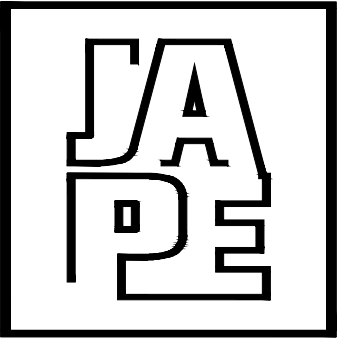
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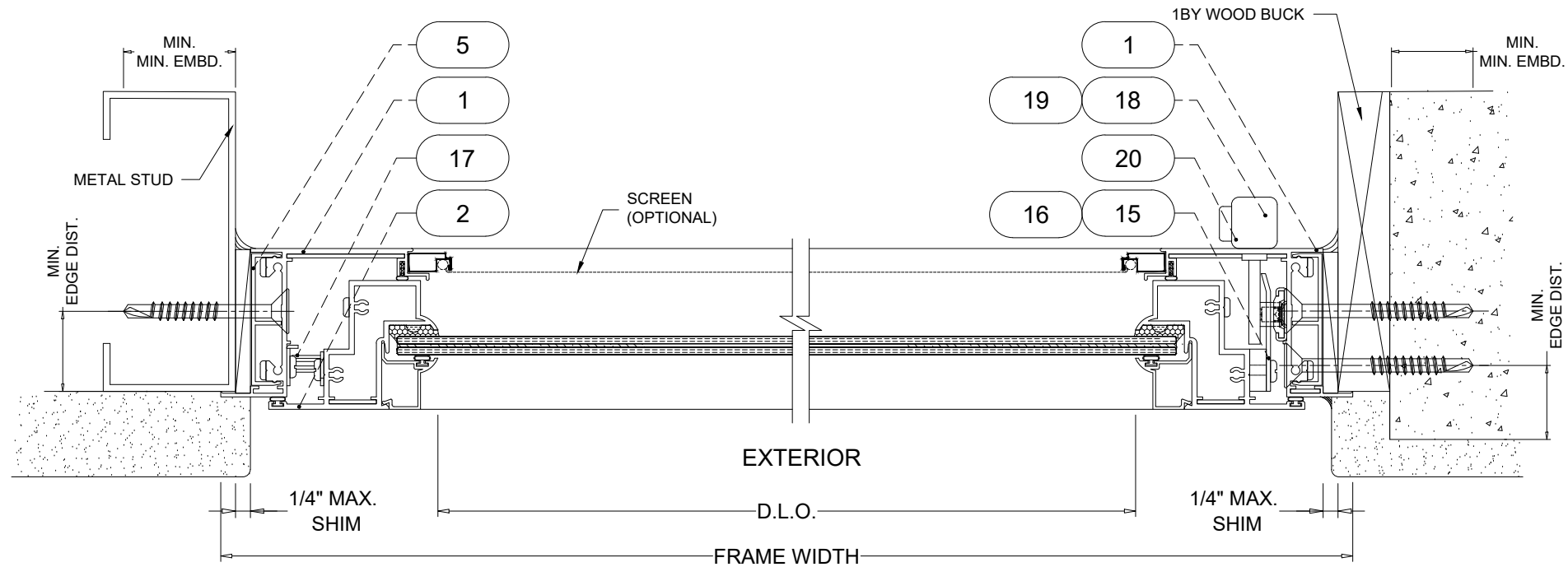
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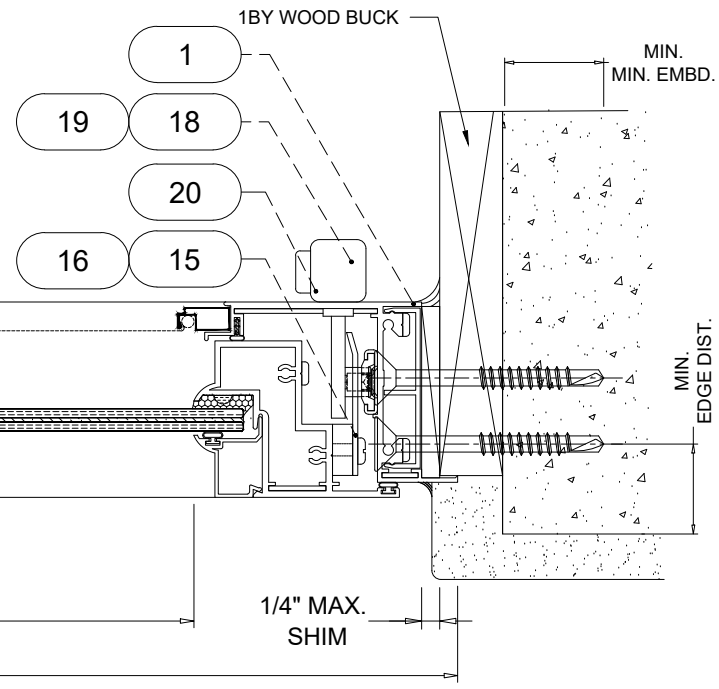
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SEC. DETAILS

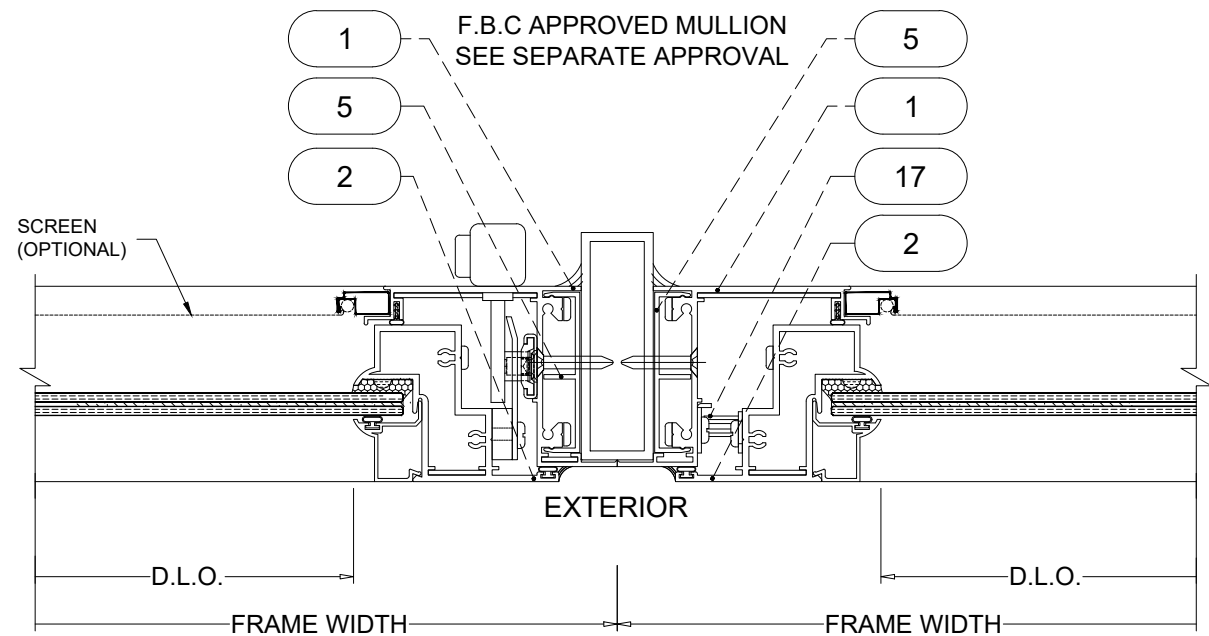
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04 OF 06



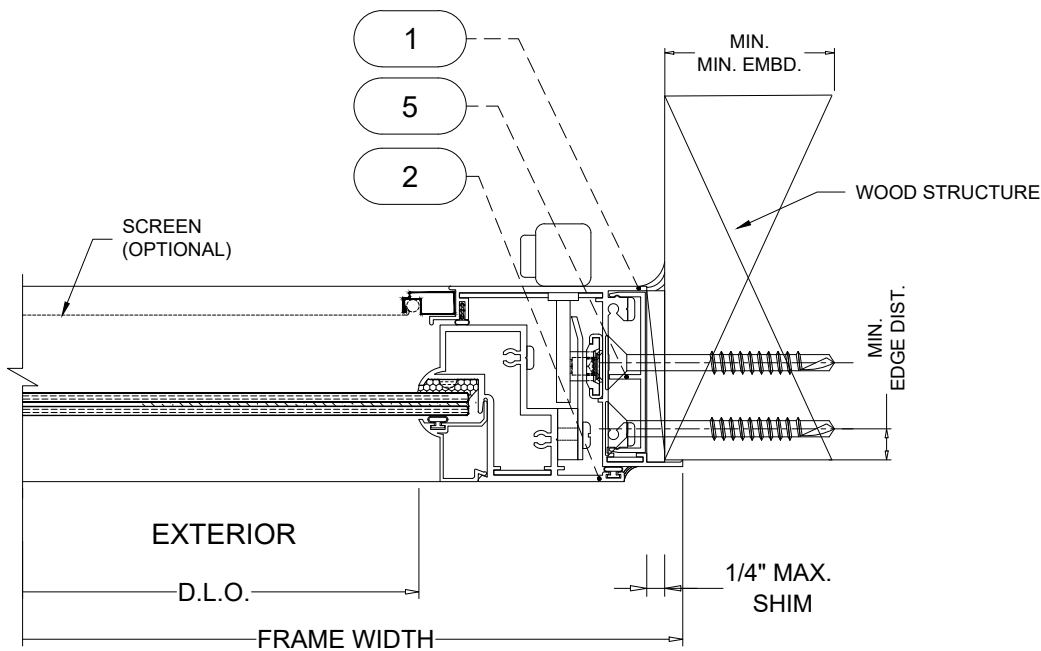
S3 HINGE DETAIL



S4 HANDLE DETAIL

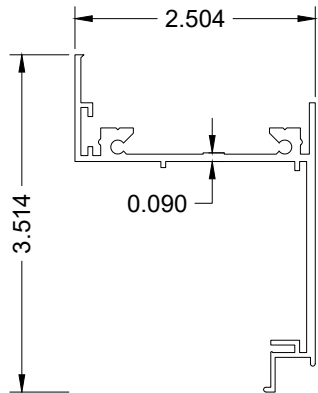


S5 MULLION DETAIL

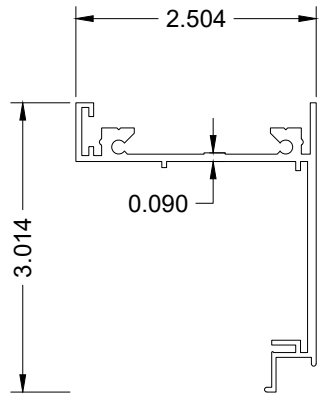


S4 JAMB DETAIL
(OPTIONAL)

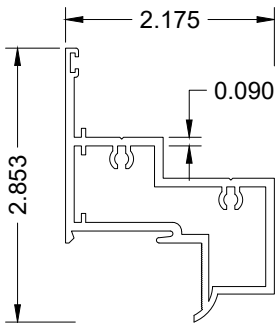
FL# 47001



1 FRAME
SCALE = 6" = 1'-0"

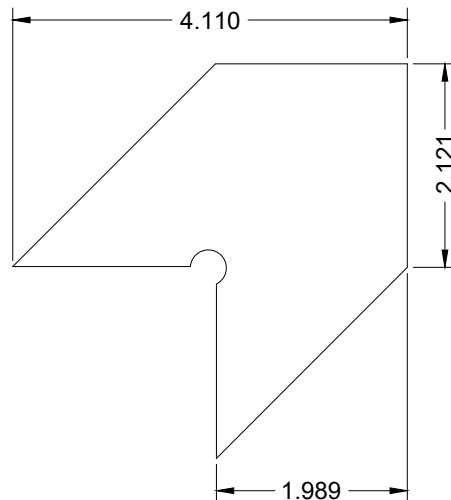


1A FRAME (OPTIONAL)
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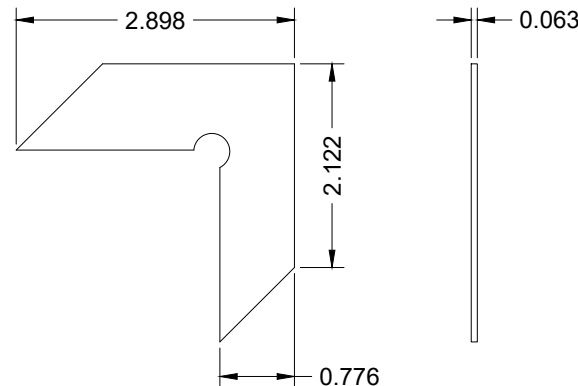


2 SASH FRAME
SCALE = 6" = 1'-0"

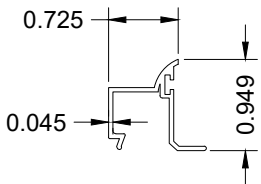
BILL OF MATERIALS				
ITEM #	PART NO.	DESCRIPTION	MATERIAL	MANUF. / SUPPLIER / REMARKS
1	021-048	FRAME HEAD,SILL,JAMB	6063-T5	-
2	022-035	SASH TOP,BOT,VERTICAL	6063-T5	-
3	021-040	7/16 GLAZING BEAD	6063-T5	-
4	021-034	5/16 GLAZING BEAD	6063-T5	-
5	021-49	CANTELEVER PLATE 3" LG	6063-T5	AT ANCHOR LOCATION
6	021-050-1	FRAME CORNER KEY	6063-T5	-
7	025-050-1	SASH CORNER KEY	6063-T5	-
8	021-011	SILICONE	DOW 995	DOW
9	023-005	FOAM FILLED BULB (32005)	-	AMESBURRY
10	015-001	GLAZING VINYL	-	MASTER TOOL
11	023-004	FOAM FILLED BULB (12032)	-	AMESBURRY
12	015-006	1/8" DIA GLASS SPACER	ACRYLIC	FRANK LOW RUBBER
13	008-014	# 8x1 PHPH SMS	ST/ST	CORNER ASSEMBLE
14	40978	KEEPER	ULTRA	ULTRA
15	# 8x1 PHSH SMS	KEEPER FASTENER	ST/ST	-
16	C0592	SNUBBERS SET	ST/ST	ULTRA
17	# 8x1 PHSH SMS	SNUBBERS FASTENER	ST/ST	-
18	31678	HANDLE	-	ULTRA
19	# 10-32 MS SELF TAP	HANDLE FASTENER	ST/ST	-
20	57750	OFFSET	ST/ST	ULTRA
21	15026R1	CRANK HANDLE	-	ULTRA
22	8300	SLIDE BAR W / GUIDE	6063-T5	PIN ADVANTAGE MFG
23	# 10-32 MS SELF TAP	SLIDE BAR FASTENER	ST/ST	-



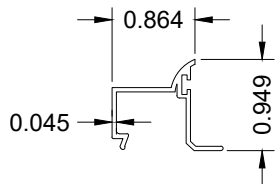
6 FRAME CORNER KEY
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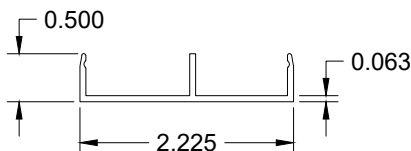
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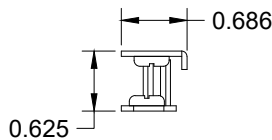
3 GLAZING BEAD
SCALE = 6" = 1'-0"



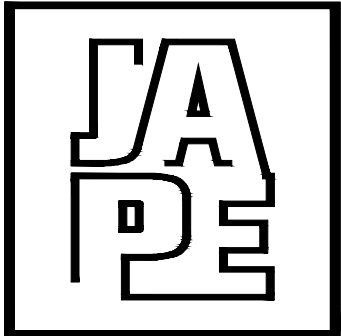
4 7/16" GLAZING BEAD
SCALE = 6" = 1'-0"



5 5/16" CANTILEVER PLATE
SCALE = 6" = 1'-0"



17 SNUBBER
SCALE = 6" = 1'-0"



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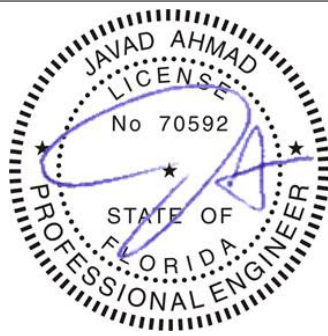
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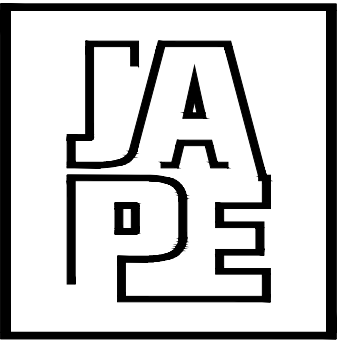
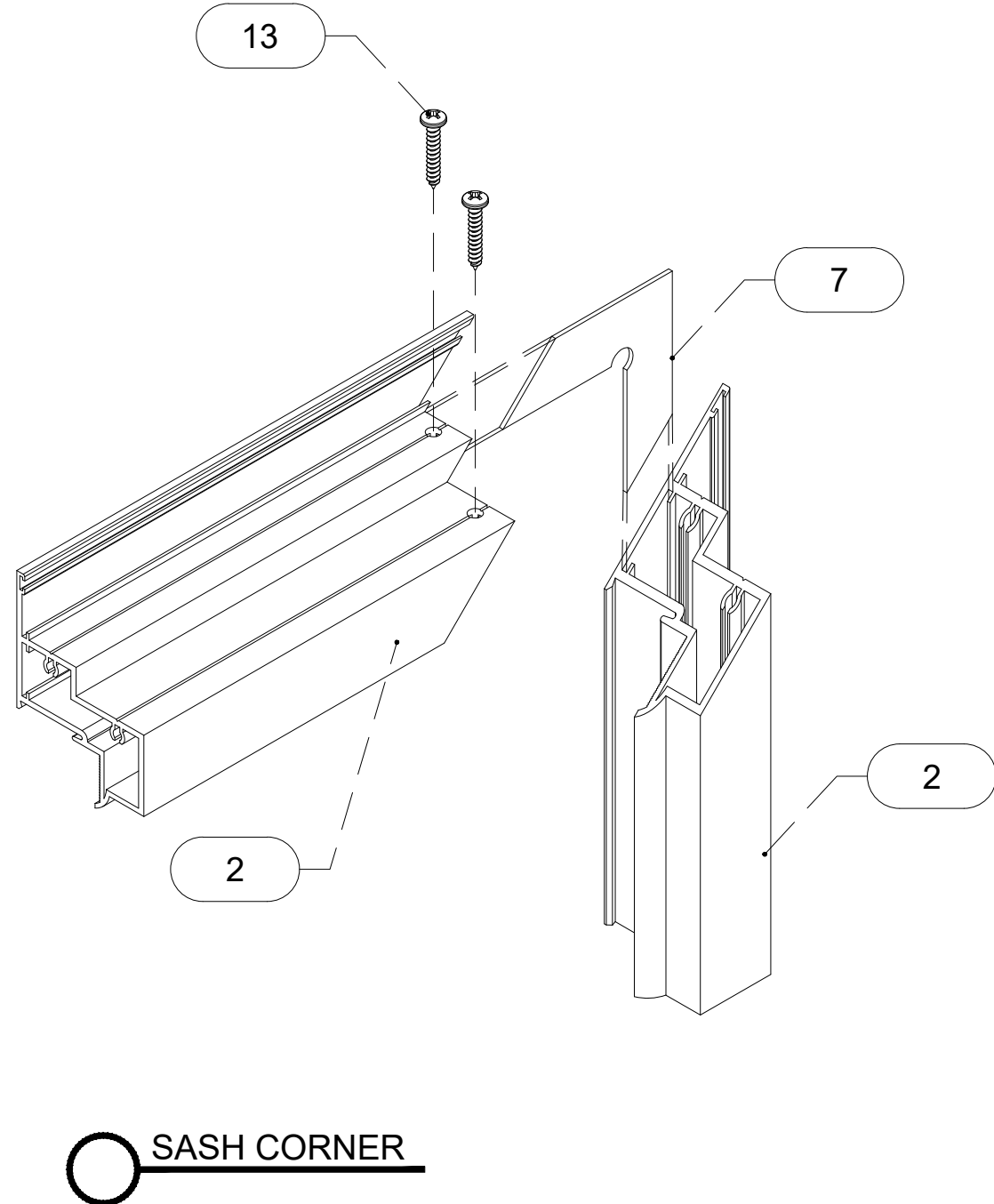
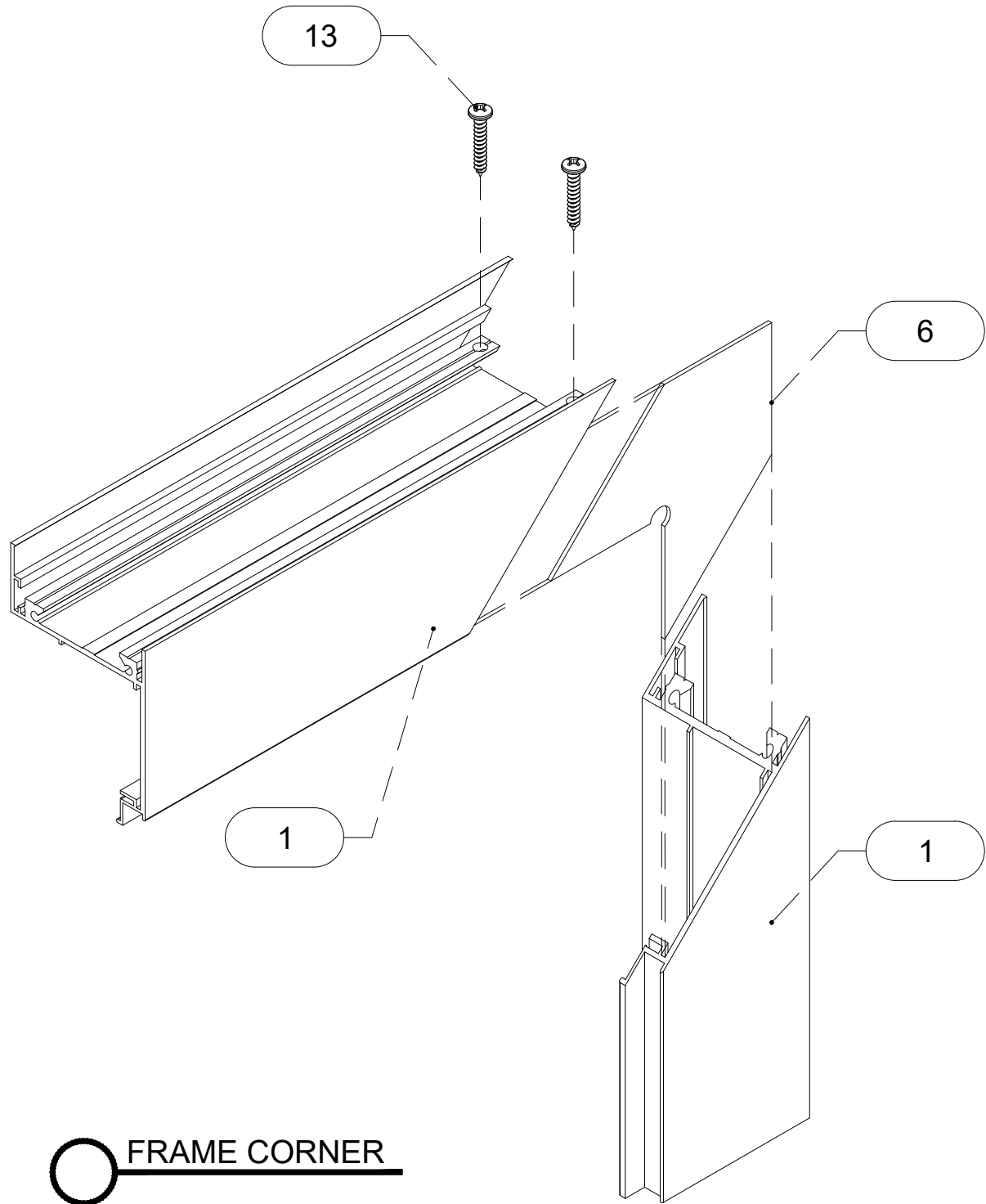


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PROFILES

SHEET No.
05 OF 06

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INSTALL. DETAIL	SHEET No. 06 OF 06
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