

ALUCOBOND MCM PANEL SYSTEM
BY
ARCHITECTURAL GRAPHICS INC.

GENERAL NOTES

- 1. THE ALUCOBOND 4MM COMPOSITE PANEL SYSTEM HAS BEEN TESTED PER TAS 201, 202, & 203 AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS. THEY ARE LARGE AND SMALL MISSILE IMPACT RESISTANT, SHUTTERS ARE NOT REQUIRED.
- 2. THE ALUCOBOND 4MM COMPOSITE PANEL SYSTEM SHALL BE USED FOR WALL CONSTRUCTION ONLY. EACH ACTUAL WALL PROJECT SHALL BE CONSTRUCTED USING THE DETAILS SHOWN ON THESE DRAWINGS AS MINIMUM REQUIRED SPECIFICATIONS. SITE SPECIFIC DETAILS THAT VARY FROM THE CONDITIONS SHOWN MUST BE APPROVED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT AND THE LOCAL BUILDING OFFICIAL.
- 3. THE MAX ALLOWABLE (ASD) DESIGN PRESSURES FOR THIS WALL PANEL SYSTEM ARE +66.5 PSF / -66.5 PSF.
- 4. ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT IN BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 5. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH DISSIMILAR MATERIALS SHALL BE SEPARATED TO PREVENT GALVANIC REACTIONS PER FBC REQUIREMENTS.

MATERIAL SPECIFICATIONS

COMPOSITE PANEL

- 1. ALUCOBOND ALUMINUM COMPOSITE METAL PANEL 4MM THICK (0.157") AS MANUFACTURED BY 3A COMPOSITES, INC., BENTON, KY.
- 2. CORE: THERMOPLASTIC MATERIAL WHICH IN COMPOSITE ASSEMBLY MEETS PERFORMANCE CHARACTERISTICS SPECIFIED.
- 3. FACE SHEET: 0.020" ALUMINUM 3105-H14 ALLOY
- 4. FINISH: PVDF KYNAR 500 COATING.
- 5. MAXIMUM DIMENSIONS: 62" WIDE X 288" LONG.
- 6. TECHNICAL DATA

DESCRIPTION	TEST	4MM ALUCOBOND
TENSILE STRENGTH	ASTM D-638	6400 PSI
YIELD STRENGTH	ASTM D-638	5300 PSI
ELONGATION	ASTM D-638	8.8%
FLATWISE COMPRESSION STRENGTH	ASTM C-365	6277 PSI
FLEXURAL STIFFNESS	ASTM C-393	2566 LB-IN
FLATWISE TENSILE STRENGTH	ASTM D-297	1623 PSI
FLEXURAL STRENGTH	ASTM D-790	14,510 PSI
MODULUS OF ELASTICITY	ASTM D-638	1.38x10 ⁶ PSI
SHEAR TEST IN FLATWISE PLANE	ASTM C-273	920 PSI
TENSILE BOND STRENGTH TEST IN FLATWISE PLANE	ASTM D-297	1625 PSI
BOND INTEGRITY	ASTM D-1781	172.38 N-mm/mm
WATER ABSORPTION	ASTM C-272	NIL
COEFFICIENT OF THERMAL EXPANSION	ASTM D-696	1.19x10 ⁻⁶ °F-in/in

ALUMINUM EXTRUSIONS

- 1. MATERIAL: AG-1J, AG-2F, AG-3M AND AG-4T ARE EXTRUDED ALUMINUM ALLOY 6063 WITH A T5 TEMPER (BY ARCHITECTURAL GRAPHICS INC.)
- 2. FINISH: MILL FINISH

FRAMING & ACCESSORIES

- 1. STEEL STUDS AND TRACKS: 16GA. MIN. GALVINIZED STEEL WITH MIN. PROPERTIES OF 50 KSI YIELD, 65 KSI ULTIMATE.
- 2. STUD & TRACK FASTENERS: #12 x 1 1/2" HEX WASHER HEAD TEK 3 SCREWS.
- 3. PANEL FASTENERS: 3/8" ALUMINUM BUTTON HEAD POP-RIVET AT 2" FROM EDGES AND 8" MAX. O.C.
- 4. JOINT SILICONE: DOW CORNING #795 SILICONE SEALANT.
- 5. BACKER ROD: 1 1/8" DIA. DENVER FOAM OPEN CELL BACKER ROD
- 6. THE STRUCTURAL ADEQUACY OF THE 16 GA. GALVINIZED STEEL STUDS AND THE REST OF THE STRUCTURAL FRAMING SUPPORTING THE METAL PANELS IS NOT PART OF THIS PRODUCT CONTROL APPROVAL AND IT SHALL BE REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT.

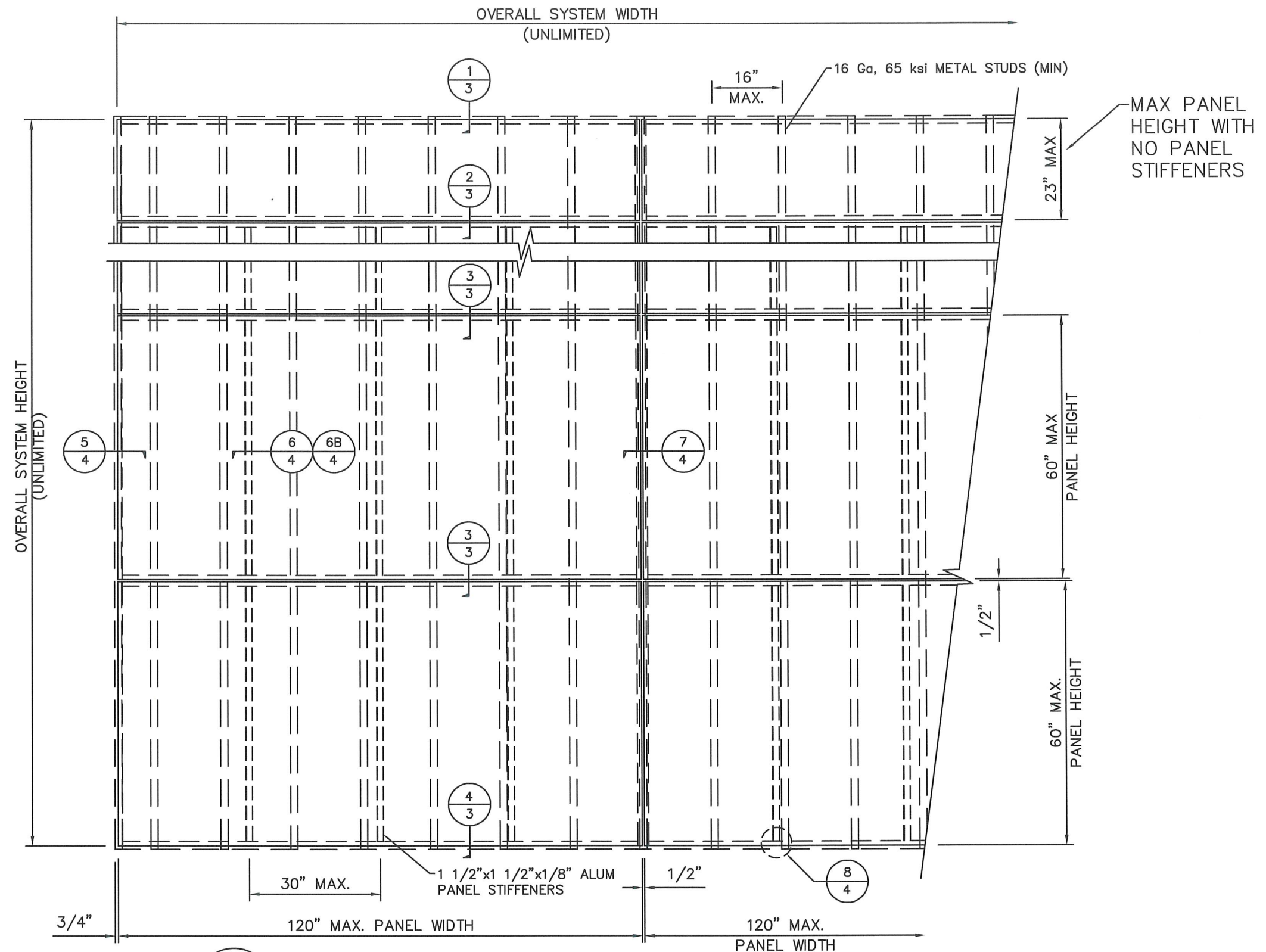
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

Signature of Scott Wolters

DEC 20 2024

SIGNATURE	DATE	 YOUR IMAGE. OUR PRIORITY. ARCHITECTURAL GRAPHICS INC. 2 KELLI CLARK COURT SE CARTERSVILLE, GA 30121 PHONE: 770-529-9331 FAX: 770-635-7227		
DRAWN BY	12/20/24			
CHECKED BY				
DEPT. MGR.				
PRJ.MGR./T.R.		JOB NO. N/A	DWG NO. ALUCOBOND-1	REV 0
DRAWINGS MARKED "APPROVED" OR "APPROVED AS NOTED" SHALL BE INTERPRETED AS AUTHORIZATION FOR FABRICATION		Scale N/A	DO NOT SCALE DRAWING	Sheet 1 of 6

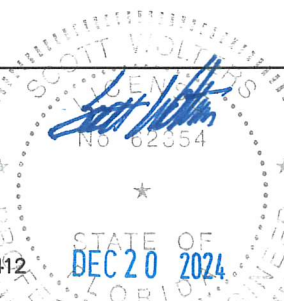


1
2 ALUMINUM COMPOSITE PANEL ELEVATION
SCALE: NONE

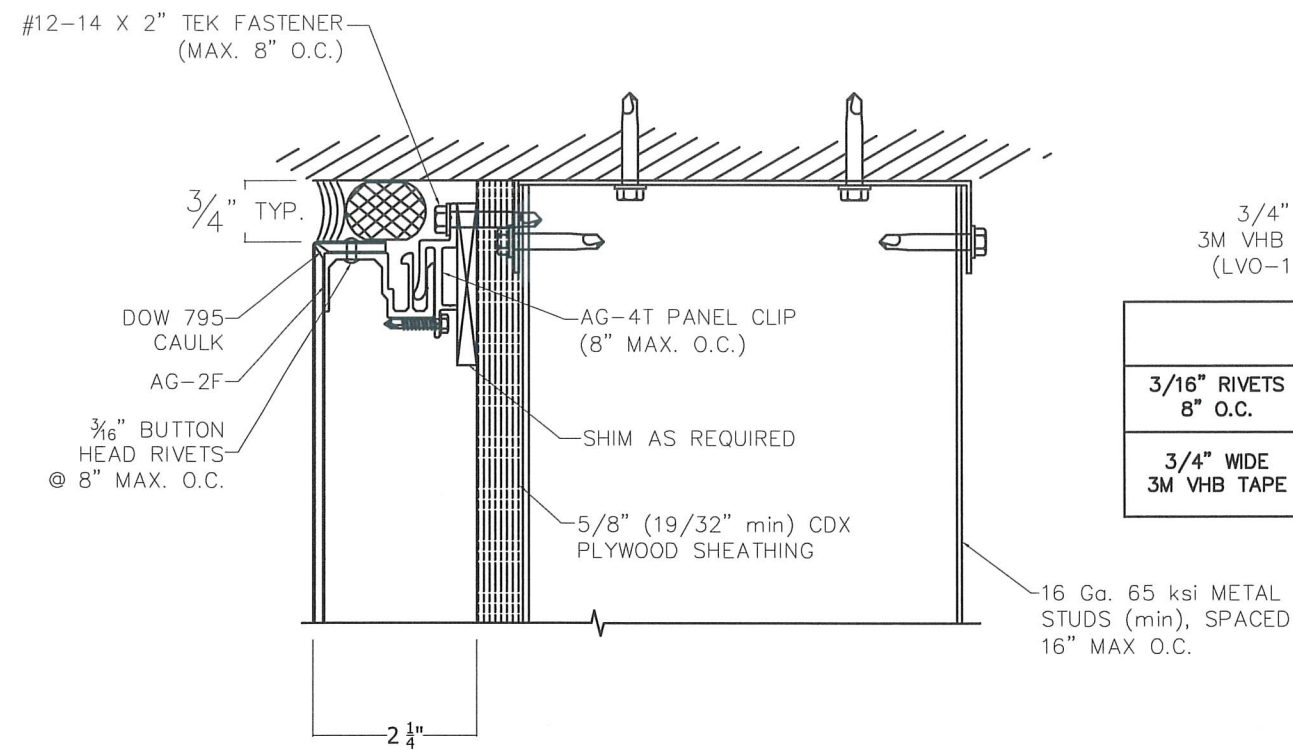
PANEL DRAWINGS
DRAWN TO 1/2 SIZE- DIM. TO FULL SIZE

SCOTT WOLTERS
FL PE# 62354

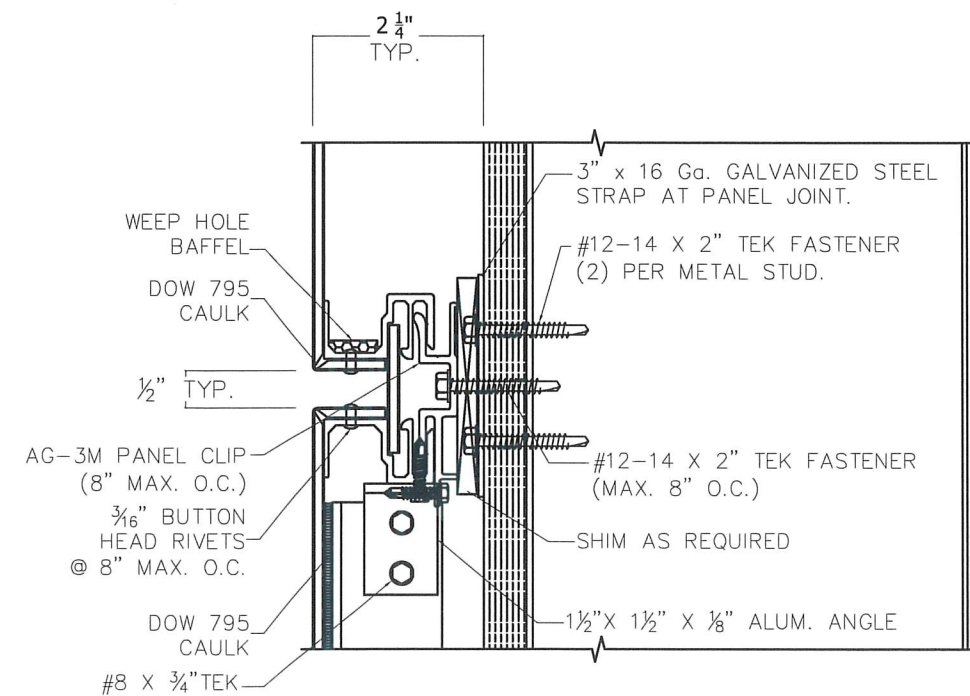
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982



SIGNATURE	DATE	 YOUR IMAGE. OUR PRIORITY. ARCHITECTURAL GRAPHICS INC. 2 KELLI CLARK COURT SE CARTERSVILLE, GA 30121 PHONE: 770-529-9331 FAX: 770-635-7227	
DRAWN BY	12/20/24		
CHECKED BY			
DEPT. MGR.			
PRJ.MGR./T.R.		JOB NO. N/A DWG NO. ALUCOBOND-1 REV 0	
DRAWINGS MARKED "APPROVED" OR "APPROVED AS NOTED" SHALL BE INTERPRETED AS AUTHORIZATION FOR FABRICATION		Scale N/A	DO NOT SCALE DRAWING
		Sheet	2 of 6



1 HEAD
SCALE: NONE

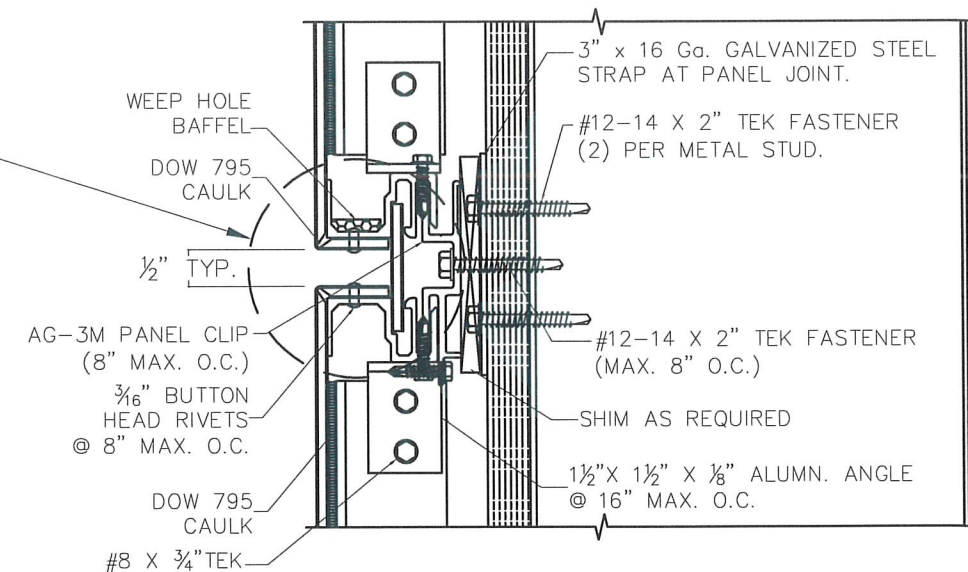


2 HORIZONTAL INTERMEDIATE
SCALE: NONE

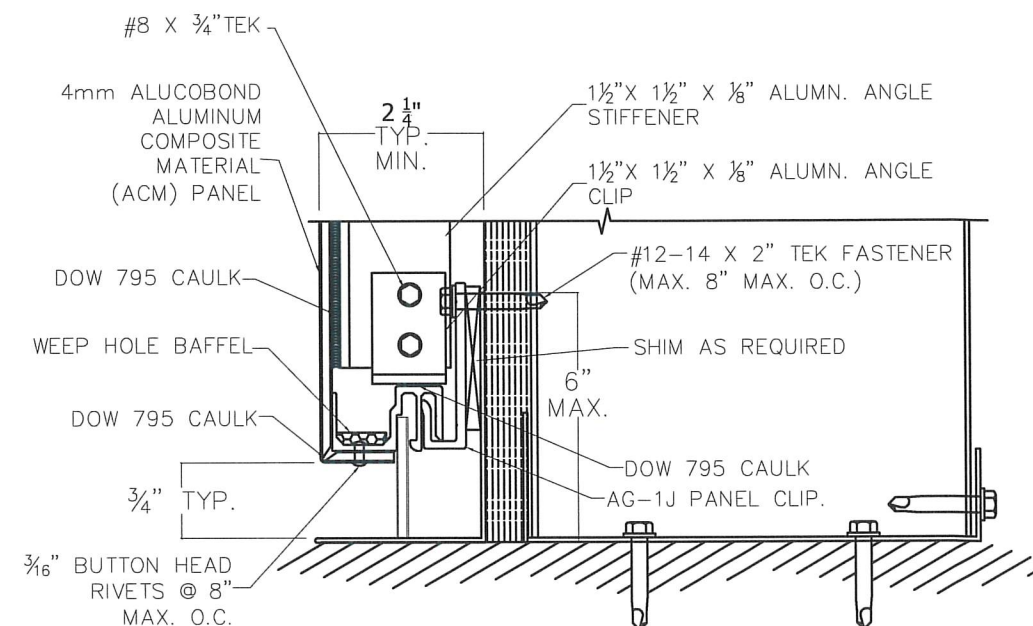
ALTERNATE DETAIL

3/4" WIDE
3M VHB TAPE
(LVO-110BF)

	PANEL WIDTH (in)	MAX DESIGN PRESSURE (ASD)
3/16" RIVETS 8" O.C.	60	±66.5 psf
3/4" WIDE 3M VHB TAPE	60 48 39	±43.2 psf ±54.0 psf ±66.5 psf



3 HORIZONTAL INTERMEDIATE
SCALE: NONE



4 SILL
SCALE: NONE

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N.
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

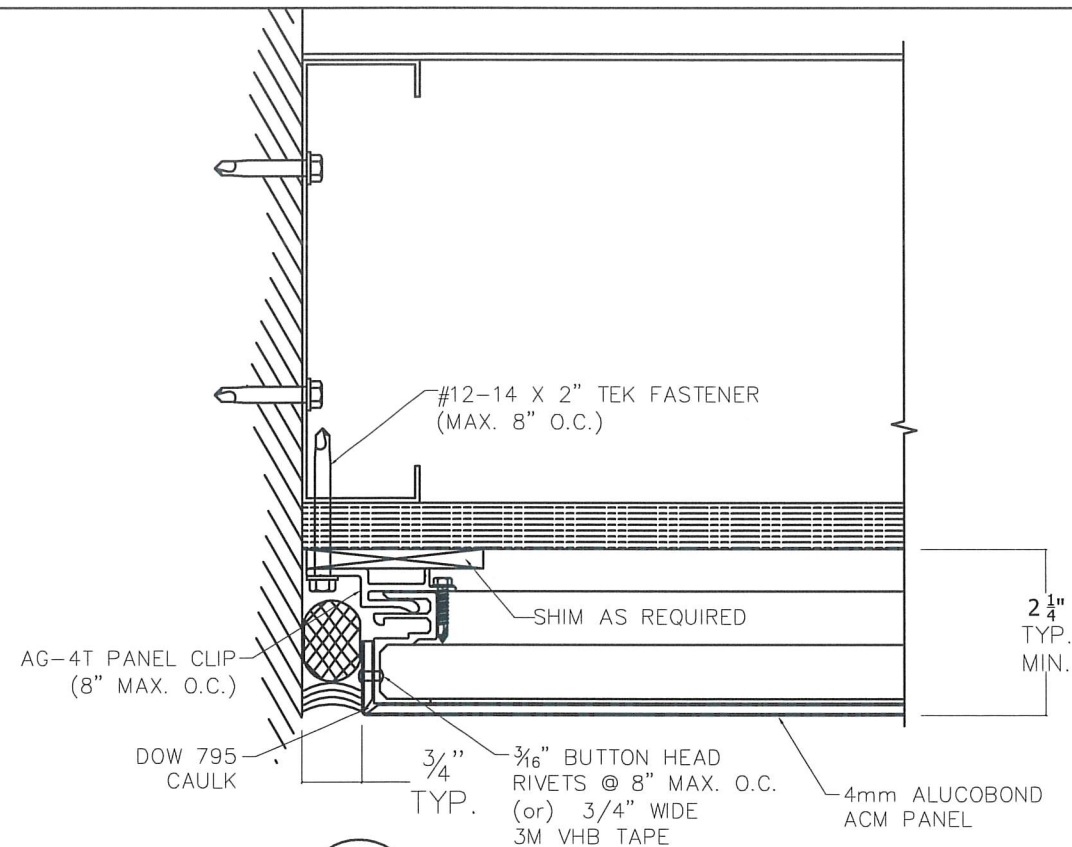
DEC 20 2024

SIGNATURE	DATE
DRAWN BY	12/20/24
CHECKED BY	
DEPT. MGR.	
PRJ.MGR./T.R.	
DRAWINGS MARKED "APPROVED" OR "APPROVED AS NOTED" SHALL BE INTERPRETED AS AUTHORIZATION FOR FABRICATION	

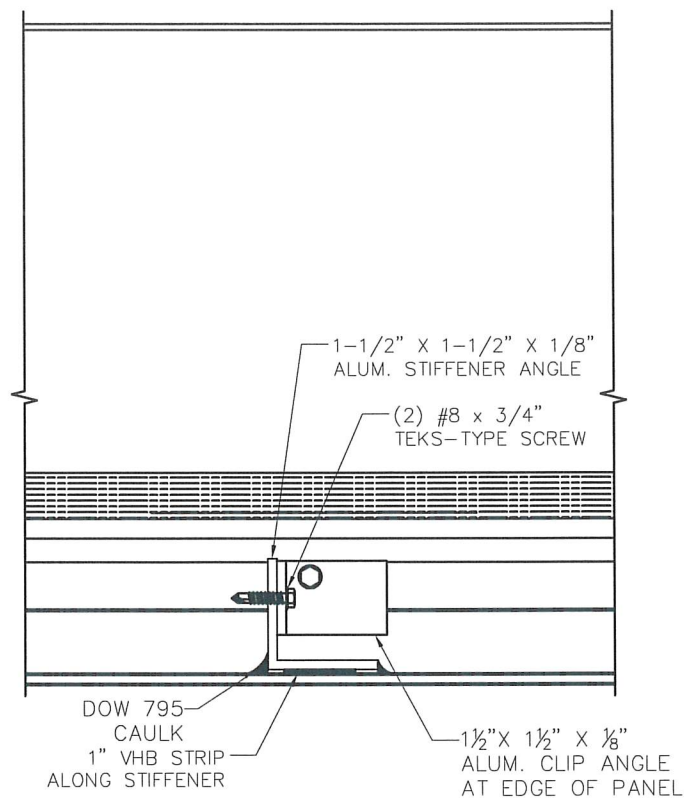
AGI YOUR IMAGE. OUR PRIORITY.

ARCHITECTURAL GRAPHICS INC
2 KELLI CLARK COURT SE PHONE: 770-529-9331
CARTERSVILLE, GA 30121 FAX: 770-635-7227

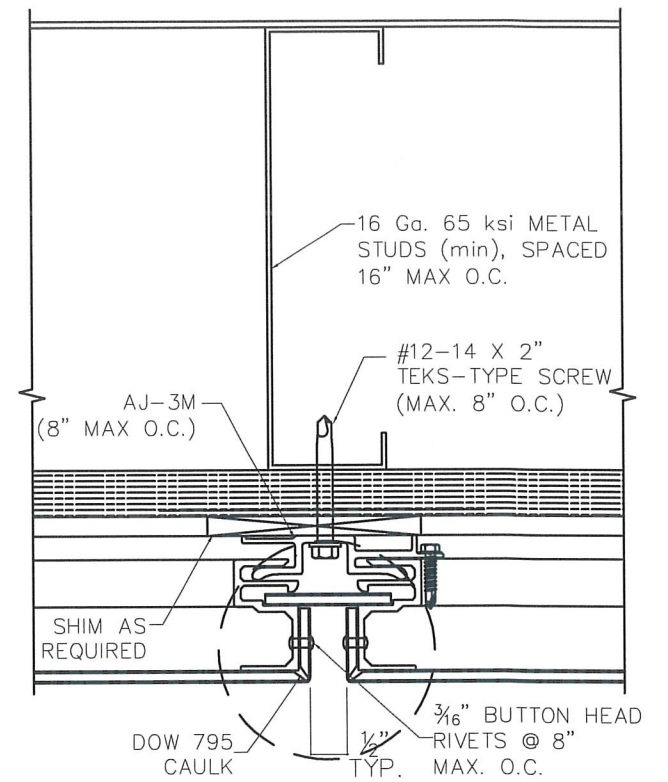
JOB NO.	DWG NO.	REV
N/A	ALUCOBOND-1	0
Scale	DO NOT SCALE DRAWING	Sheet
N/A		3 of 6



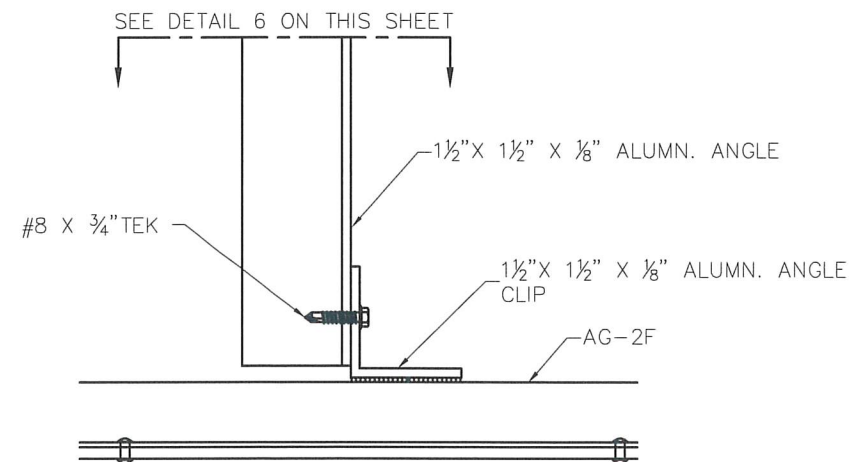
5 JAMB
SCALE: NONE



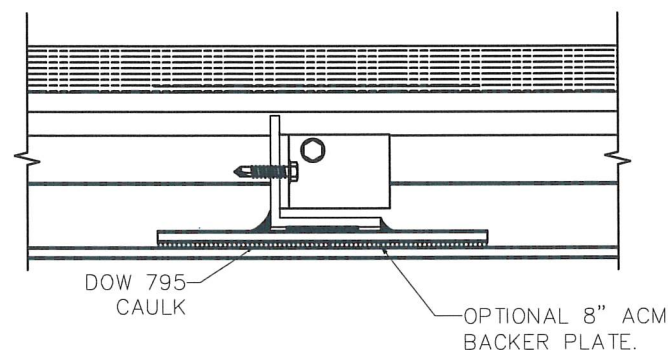
6 VERTICAL STIFFENER
SCALE: NONE



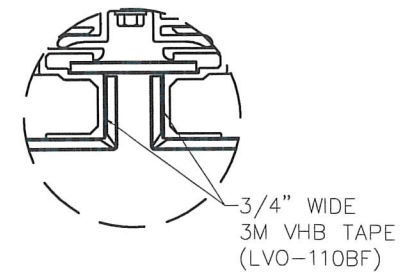
7 VERTICAL PANEL JOINT
SCALE: NONE



8 STIFFENER AT PANEL EDGE
SCALE: (FRONT VIEW)



6B OPTIONAL STIFFENER DETAIL
SCALE: NONE



ALTERNATE DETAIL

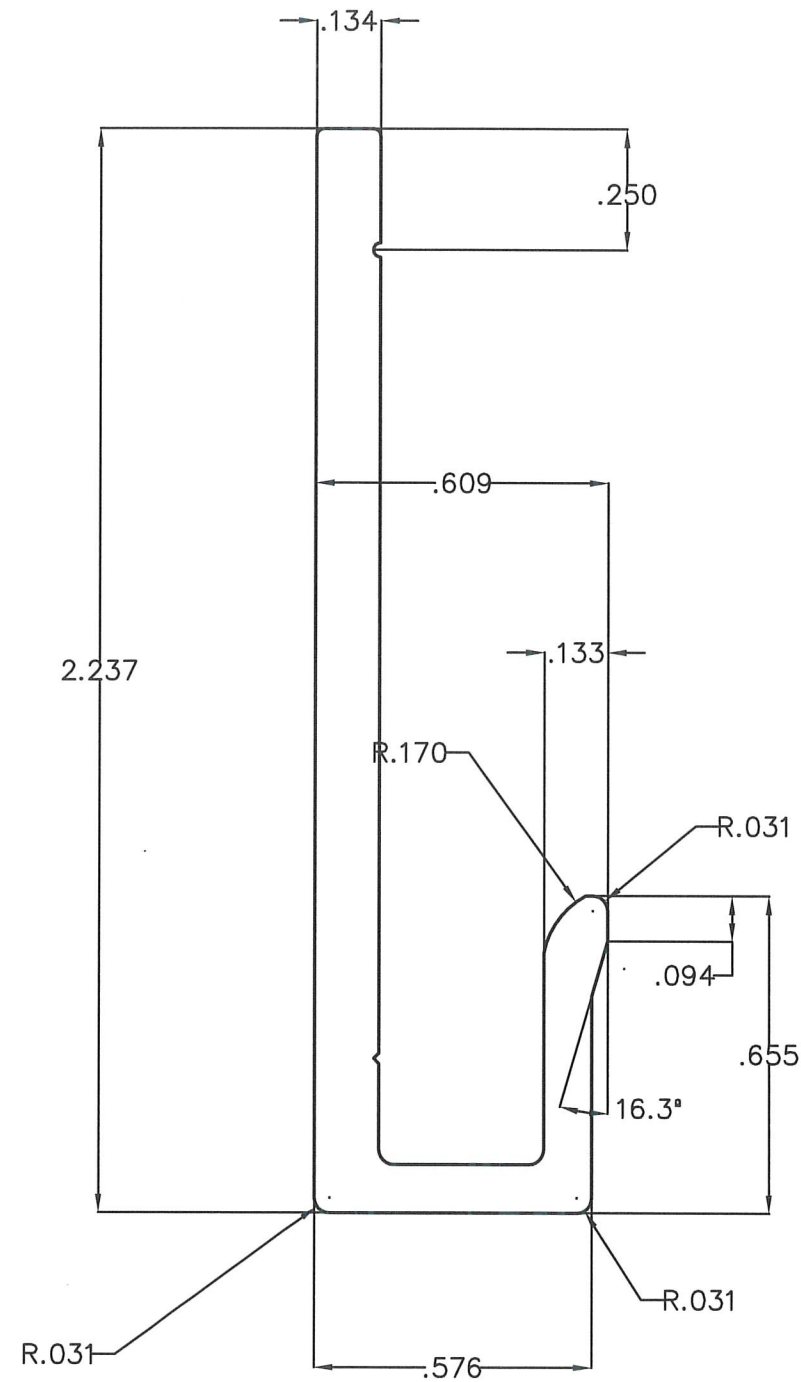
	PANEL WIDTH (in)	MAX DESIGN PRESSURE (ASD)
3/16" RIVETS 8" O.C.	60	±66.5 psf
3/4" WIDE 3M VHB TAPE	60 48 39	±43.2 psf ±54.0 psf ±66.5 psf

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

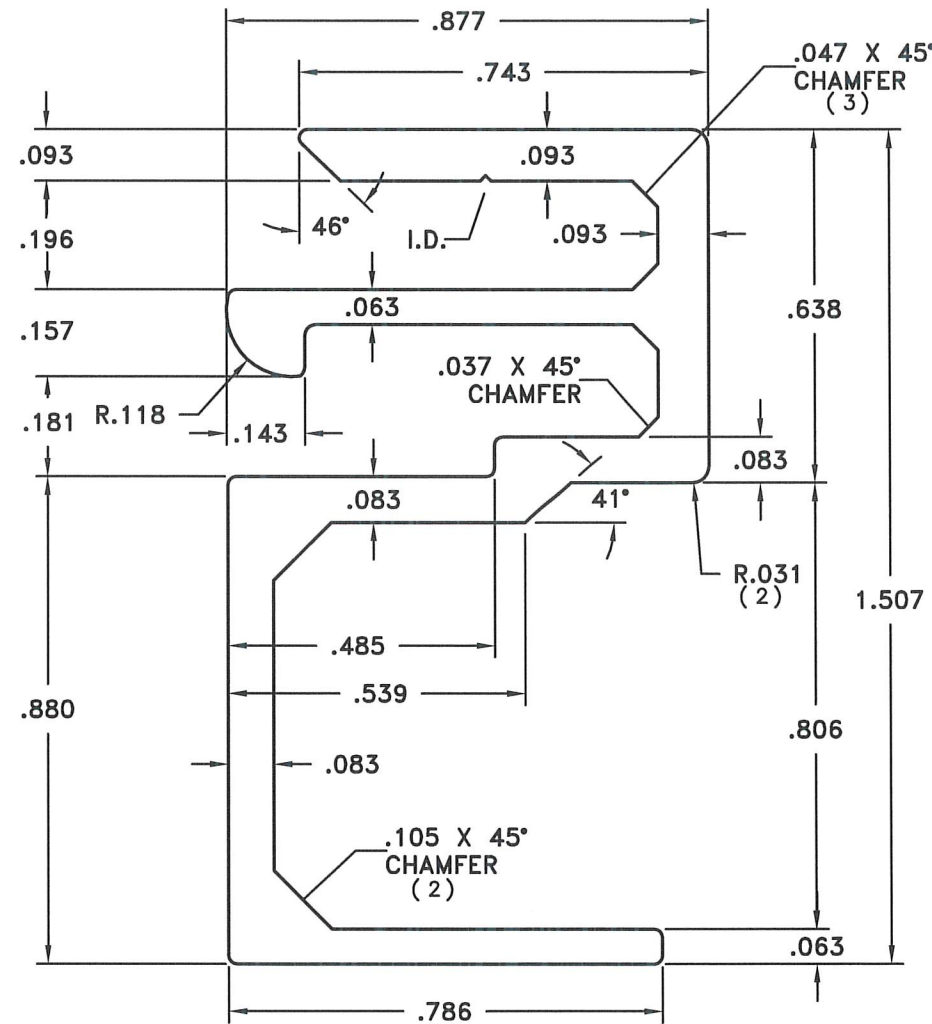
STATE OF
FLORIDA
NOV 20 2024

SIGNATURE	DATE	AGI YOUR IMAGE. OUR PRIORITY.			
DRAWN BY	12/20/24	ARCHITECTURAL GRAPHICS INC			
CHECKED BY		2 KELLI CLARK COURT SE PHONE: 770-529-9331			
DEPT. MGR.		CARTERSVILLE, GA 30121 FAX: 770-635-7227			
PRJ.MGR./T.R.		JOB NO.	DWG NO.	REV	
		N/A	ALUCOBOND-1	0	
DRAWINGS MARKED "APPROVED" OR "APPROVED AS NOTED" SHALL BE INTERPRETED AS AUTHORIZATION FOR FABRICATION		Scale	N/A	DO NOT SCALE DRAWING	Sheet 4 of 6



AG-1J
EXTRUSION
DIE DATA

MASS: .481 lb/f
EST. PER.: 6.691 in
FACTOR: 14



AG-2F
EXTRUSION
DIE DATA

MASS: .448 lb/f
EST. PER.: 8.772 in
FACTOR: 20

SCOTT WOLTERS
FL PE# 62354

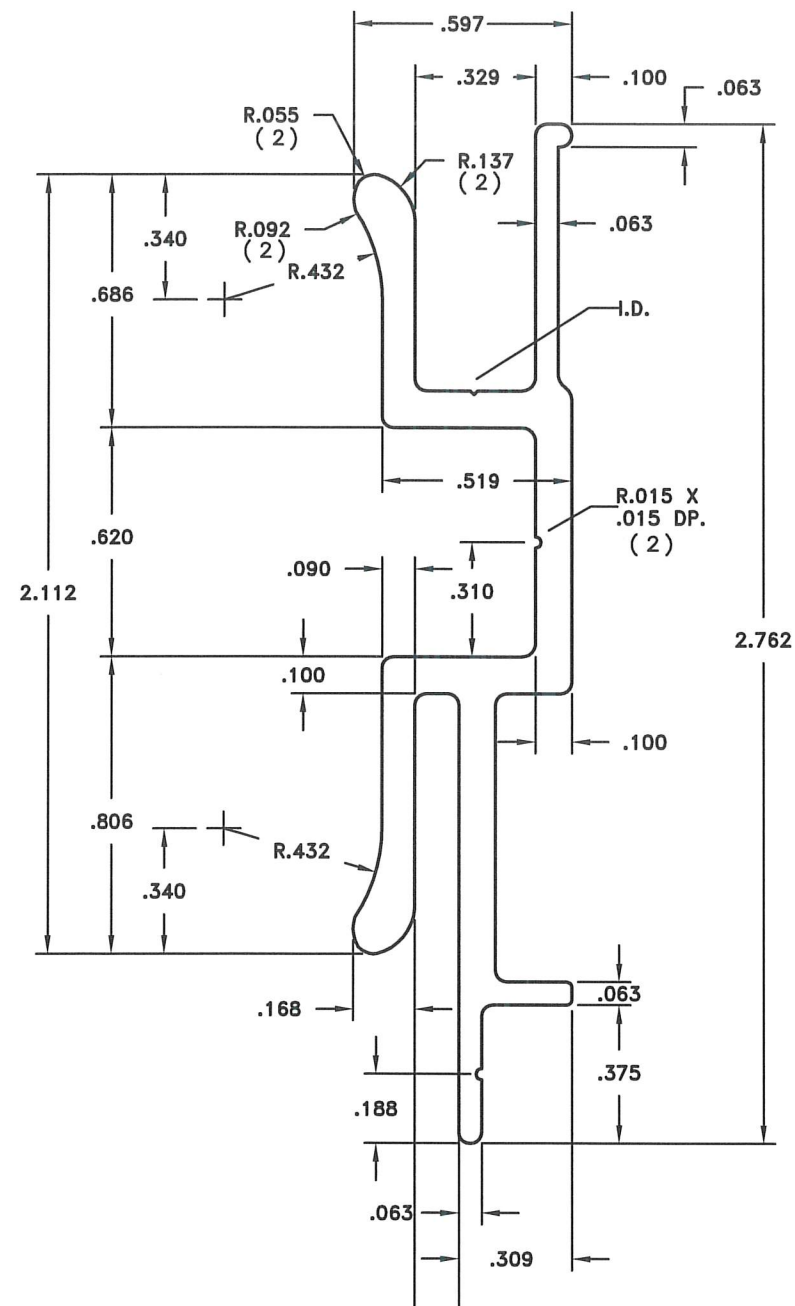
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

STATE OF
FLORIDA
DEC 20 2024

SIGNATURE	DATE
DRAWN BY	12/20/24
CHECKED BY	
DEPT. MGR.	
PRJ.MGR./T.R.	
DRAWINGS MARKED "APPROVED" OR "APPROVED AS NOTED" SHALL BE INTERPRETED AS AUTHORIZATION FOR FABRICATION	

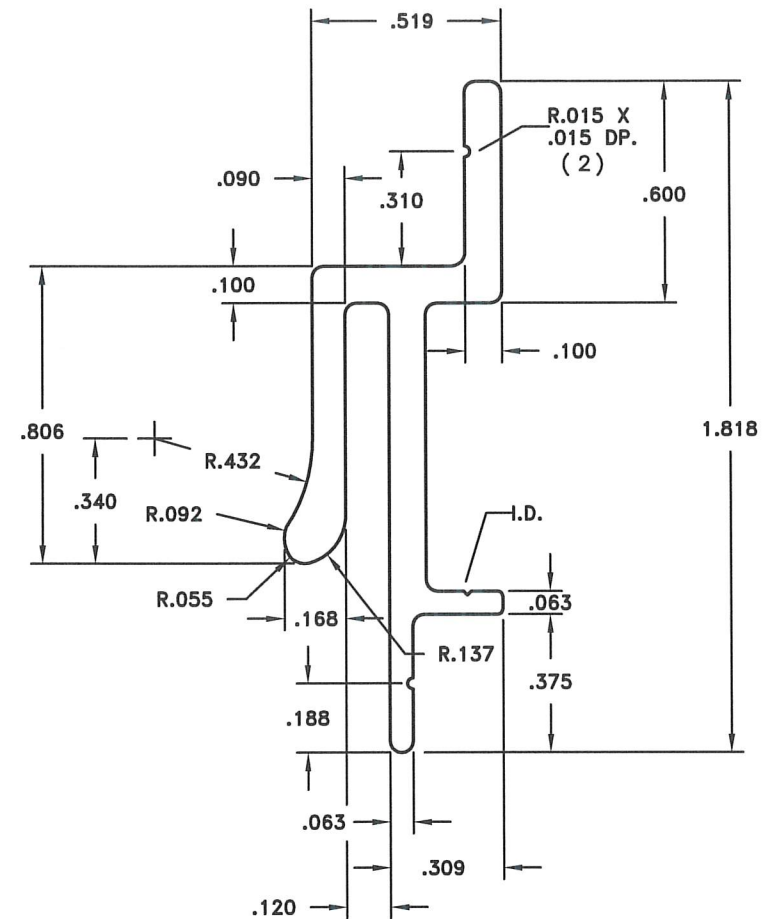
AGI YOUR IMAGE. OUR PRIORITY.	
ARCHITECTURAL GRAPHICS INC	
2 KELLI CLARK COURT SE CARTERSVILLE, GA 30121	
PHONE: 770-529-9331 FAX: 770-635-7227	
JOB NO.	DWG NO.
N/A	ALUCOBOND-1
Scale	DO NOT SCALE DRAWING
N/A	Sheet 5 of 6

REV
0



AG-3M
EXTRUSION
DIE DATA

MASS: .562 lb/f
EST. PER.: 10.269n
FACTOR: 18



AG-4T
EXTRUSION
DIE DATA

MASS: .353 lb/f
EST. PER.: 6.382 in
FACTOR: 18

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982



SIGNATURE	DATE	 YOUR IMAGE. OUR PRIORITY. ARCHITECTURAL GRAPHICS INC 2 KELLI CLARK COURT SE CARTERSVILLE, GA 30121 PHONE: 770-529-9331 FAX: 770-635-7227			
DRAWN BY	JLR				
CHECKED BY					
DEPT. MGR.					
PRJ.MGR./T.R.		DRAWINGS MARKED "APPROVED" OR "APPROVED AS NOTED" SHALL BE INTERPRETED AS AUTHORIZATION FOR FABRICATION			
JOB NO.	N/A	DWG NO.	ALUCOBOND-1	REV	0
Scale	N/A	DO NOT SCALE DRAWING	Sheet	6	of 6