

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

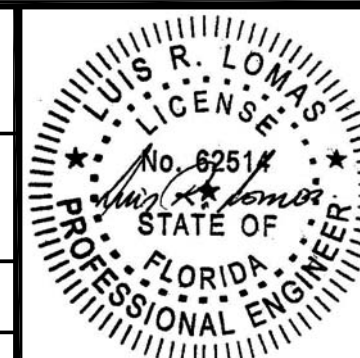
NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. METAL FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. SHEATHING TO BE 5/8" THICK MINIMUM AND SECURED TO FRAMING TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. PANEL THICKNESS TO BE 3MM.
5. PANEL MATERIAL TO BE ALFEX SOLID ALUMINUM PLATE 3003-H14
6. MAXIMUM PANEL SIZE: 120" X 60"
7. ALUMINUM PLATE MAY BE OBTAINED FROM THE FOLLOWING MANUFACTURERS AND UNDER THESE BRAND NAMES:
ALFEX, LLC
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS.
9. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS 3" MAX FROM EACH END AND 16" MAX O.C. THEREAFTER AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING PANELS INTO EXTRUSIONS USE 1/8" 5052 ALUMINUM POP RIVETS. LOCATE RIVETS 3" MAX FROM EACH END AND 18" MAX O.C. THEREAFTER AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. ALL FASTENERS TO BE CORROSION RESISTANT.
12. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
A. METAL STRUCTURE: GALVANIZED STEEL 16GA FY: 55KSI MIN.

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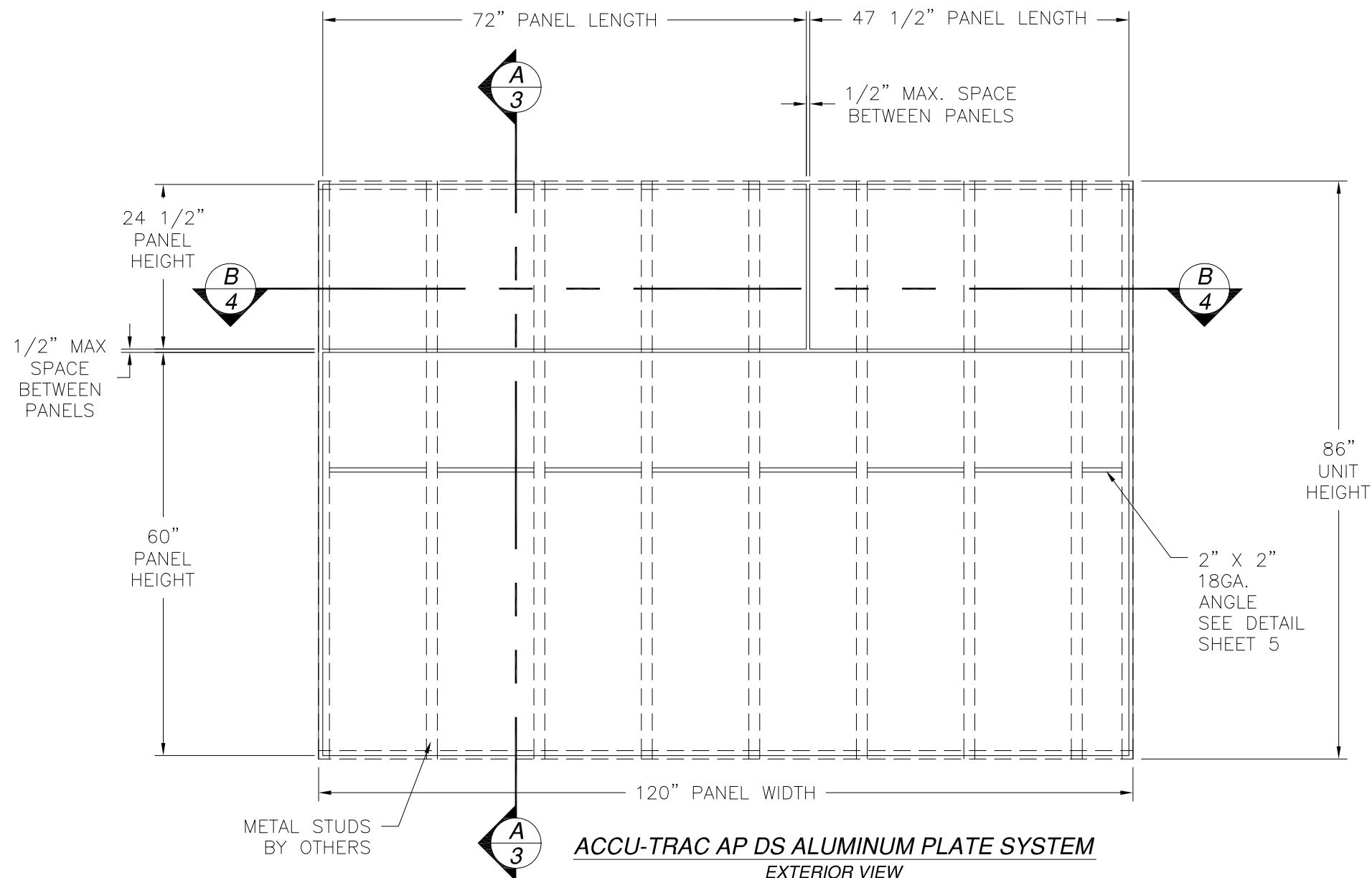
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1	NOTES
2	ELEVATION
3 - 4	INSTALLATION DETAILS
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ALTECH PANEL SYSTEM LLC 1 JOHNSON STREET, SUITE 118 CARTERSVILLE, GA 30120		
ACCU-TRAC AP DS ALUMINUM PLATE SYSTEM IMPACT HVHZ USING ALFEX 3MM ALUMINUM PLATE NOTES		
DRAWN: A.R.	DWG NO. 08-03704	REV -
SCALE NTS	DATE 04/19/2021	SHEET 1 OF 5
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
FL No.: 62514

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ACCU-TRAC AP DS ALUMINUM PLATE SYSTEM
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+100.0/-90.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
120" X 60" PANEL SHOWN. OTHER SIZES ARE APPROVED AS LONG AS
PANEL AREA DOES NOT EXCEED 50.0 FT²

Chart #1

Design pressure (psf)	Stiffener Spacing (in)			
	Panel height (in)			
	24.00	36.00	48.00	60.00
20.0	NO STF REQ'D	43.00	38.00	21.00
60.0	27.00	27.00	13.00	7.00
90.0	22.00	18.00	9.00	5.00
100.0	20.00	15.00	7.00	4.00

Chart #2

Design pressure (psf)	Rivet spacing (in)
20.0	18.00
60.0	18.00
90.0	14.00
100.0	12.00

Chart #3

Design pressure (psf)	Clip length (in)
20.0	3.00
60.0	3.00
90.0	3.00
100.0	3.00

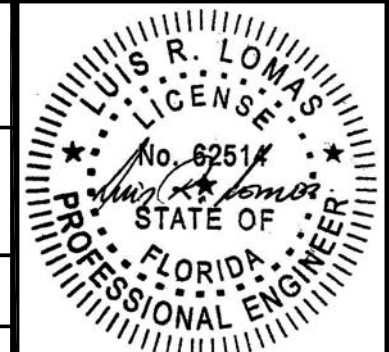
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ALTECH PANEL SYSTEM LLC
1 JOHNSON STREET, SUITE 118
CARTERSVILLE, GA 30120

ACCU-TRAC AP DS ALUMINUM PLATE SYSTEM
IMPACT HVHZ USING ALFLEX 3MM ALUMINUM PLATE
ELEVATION

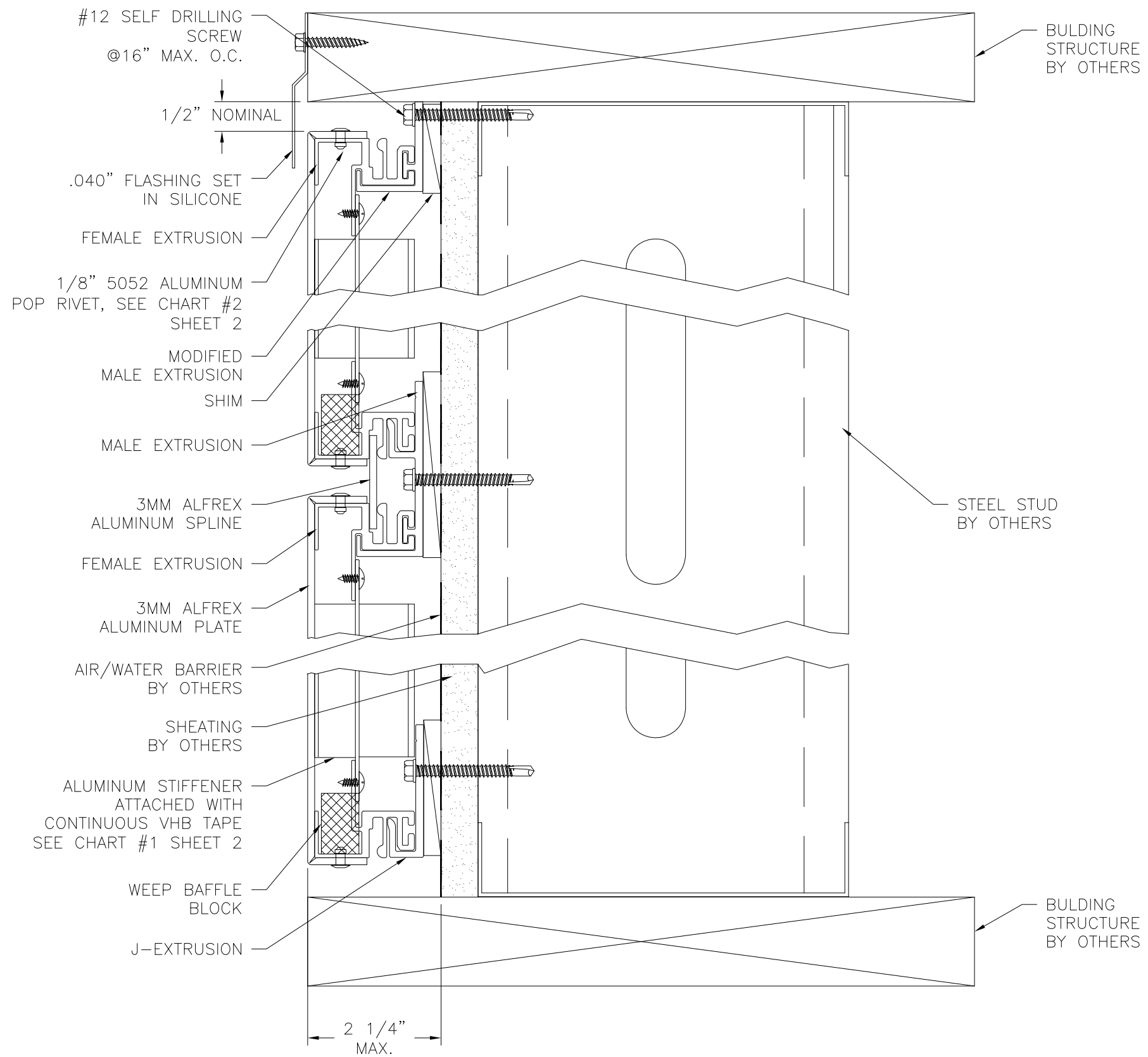
DRAWN: A.R.	DWG NO. 08-03704	REV -
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A
3 VERTICAL SECTION
INSTALLATION DETAILS

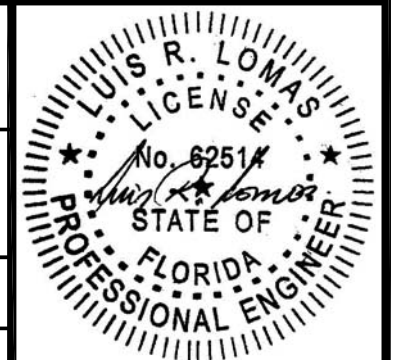
ALTECH PANEL SYSTEM LLC
1 JOHNSON STREET, SUITE 118
CARTERSVILLE, GA 30120

ACCU-TRAC AP DS ALUMINUM PLATE SYSTEM
IMPACT HVHZ USING ALFREX 3MM ALUMINUM PLATE
INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03704	REV -
SCALE NTS	DATE 04/19/2021	SHEET 3 OF 5

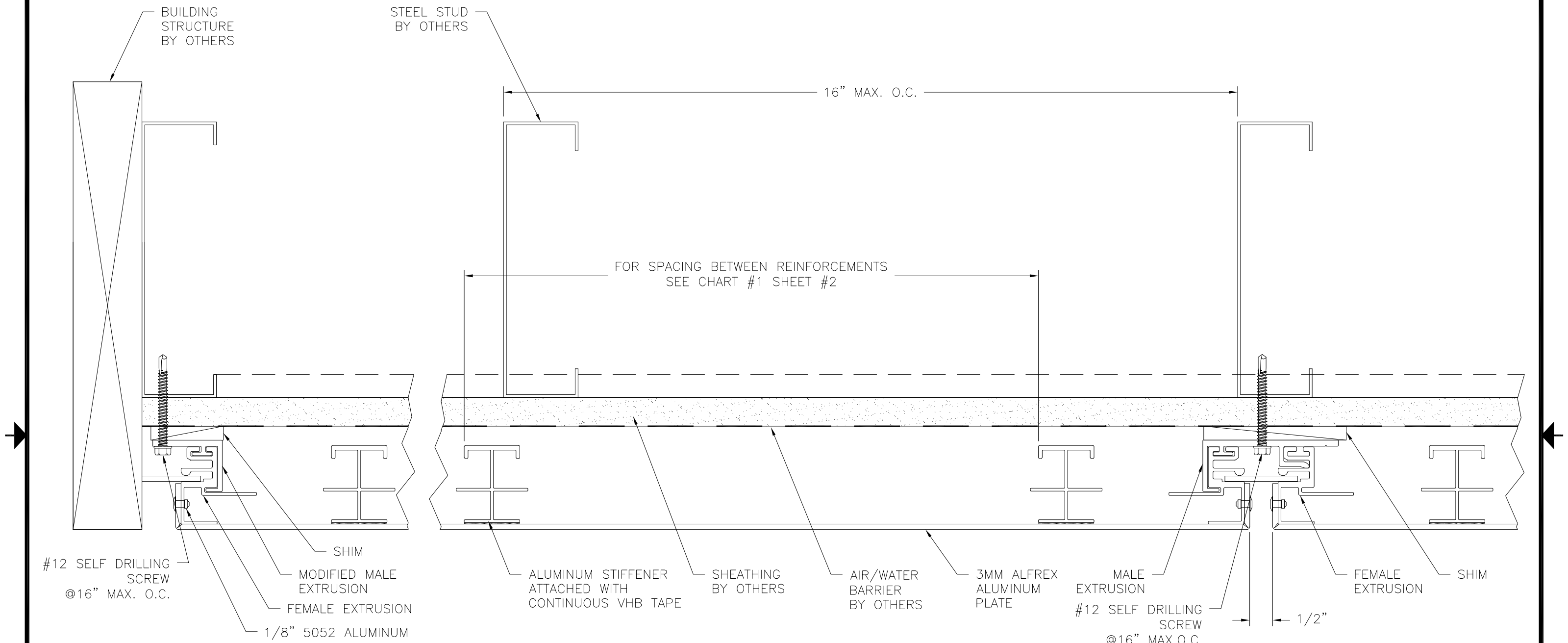
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B
4
HORIZONTAL SECTION
 INSTALLATION DETAILS

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ALTECH PANEL SYSTEM LLC
 1 JOHNSON STREET, SUITE 118
 CARTERSVILLE, GA 30120

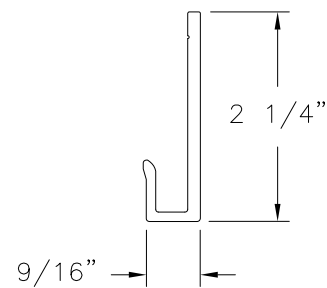
ACCU-TRAC AP DS ALUMINUM PLATE SYSTEM
 IMPACT HVHZ USING ALFLEX 3MM ALUMINUM PLATE
 INSTALLATION DETAILS

DRAWN: A.R.	DWG NO. 08-03704	REV -
SCALE NTS	DATE 04/19/2021	SHEET 4 OF 5

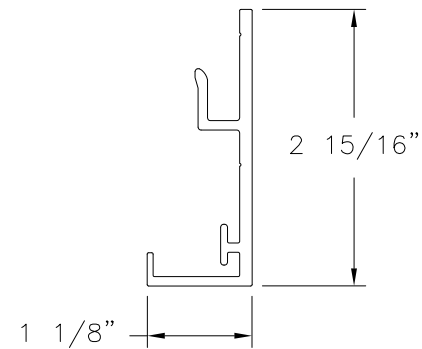
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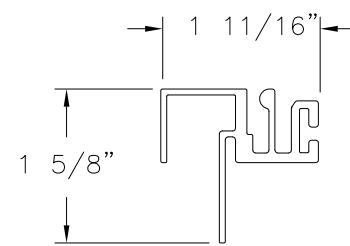
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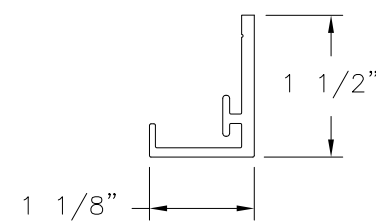
J-EXTRUSION
ALUMINUM 6063-T5 .134" THICK



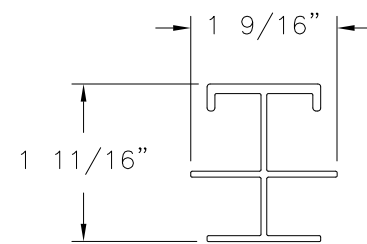
MALE EXTRUSION
ALUMINUM 6063-T5 .134" THICK



3MM FEMALE EXTRUSION
ALUMINUM 6063-T5 .083" THICK



MODIFIED MALE EXTRUSION
ALUMINUM 6063-T5 .134" THICK



STIFFENER
ALUMINUM 6063-T5 .125" THICK

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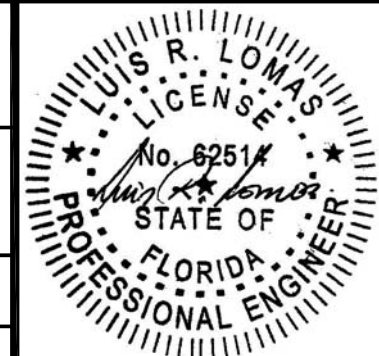
ALTECH PANEL SYSTEM LLC
1 JOHNSON STREET, SUITE 118
CARTERSVILLE, GA 30120

ACCU-TRAC AP DS ALUMINUM PLATE SYSTEM
IMPACT HVHZ USING ALFLEX 3MM ALUMINUM PLATE
COMPONENTS

DRAWN: A.R.	DWG NO. 08-03704	REV -
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SCALE NTS	DATE 04/19/2021	SHEET 5 OF 5
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L. Roberto Lomas P.E.

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Engineering Evaluation Report

Report No.: 514846

Manufacturer: Altech Panel Systems, Inc.
1 Johnson Street, Suite 118
Cartersville, GA 30120

Product Line: Accu-Trac AP DS Aluminum Plate System – Impact HVHZ using Alfrex 3mm aluminum plate

Compliance:

The above mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61G20-3.005 method 1(d). The product listed herein complies with requirements of the current Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-03704, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Report No.: L2056.01-550-18 signed and sealed by Vinu J. Abraham P.E.
Intertek, Lithia Springs, GA.
TAS 201 Large Missile Impact Test, Level D, Wind Zone 4
TAS 202 Uniform Static Air Pressure, +100.0/-90.0psf design pressure, 20.0psf water penetration.
TAS 203 Cyclic Pressure loading +100.0/-90.0psf design pressure
3. Report No.: L2056.02-550-18 signed by James Blakely
Intertek, Lithia Springs, GA.
ASTM E1886/E1996 Large Missile Impact Test, Level D, Wind Zone 4
ASTM E1886/E1996 Cyclic Pressure loading +100.0/-90.0psf design pressure
ASTM E330 Design pressure: +100.0/-90.0psf
Water penetration: 20.0psf water penetration.
4. Anchor calculations and comparative analysis, report number 514846-1, prepared, signed and sealed by Luis Roberto Lomas P.E.

Limitations and Conditions of use:

- Design pressure: +100.0/-90.0psf
- Panel Size: 120" x 60"
- This product is rated to be used in the HVHZ.
- Panel material to be Alfrex Solid Aluminum Plate 3003-H14
- Stiffener material to be 3mm (.118") Extruded Aluminum.
- Stiffeners and clips are made of aluminum 6063-T5.

Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document 08-03704.

Certification of Independence:

Please note that I don't have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I don't have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).

