



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Solar Innovations Inc.
31 Roberts Road,
Pine Grove, PA 17963

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "SI-3350" Out-folding Aluminum (Thermally Broken) Glass Door w/Reinf-L.M.I.

APPROVAL DOCUMENT: Drawing No. **08-01740 Rev D**, titled "Alum Out fold Door", sheets 1 through 14 of 14, prepared by manufacturer, dated 09/09/12 and last revised on 08/20/2019, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. See Design Pressures in sheets **2** & **3** and reinforcements in sheets **8**. Max panel not to exceed 36"W X 95.5"H.
2. See sheet **4** for anchor installation including Jamb installation details **L** & **M**. Steel metal substrate must be min 18 ga (0.058" thk) having min $F_y = 33\text{ksi}$ and $F_u = 52\text{ksi}$ and to be review by AHJ for structural adequacy.
3. Application of grout filled CMU, masonry and/or Concrete to meet applicable FBC requirements and to be review by AHJ for structural adequacy. See embedment and/or Edge distance requirement in sheets **9** & **10**.
4. See glazing details in sheet **12**, wet glazed unit require silicone sealant at interior and exterior glazing perimeter.
5. Max Frame area not to exceed **233.5** ft², panels to fit within allowable area.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews #15-1109.02** and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY
APPROVED

NOA No. 18-1106.06
Expiration Date: February 20, 2024
Approval Date: September 19, 2019
Page 1

8
9/19/19

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS

1. Manufacturer's die drawings and sections (submitted under file #12-0926.07).
2. Drawing No. **08-01740 Rev C**, titled "Alum Out fold Door", sheets 1 thru 14 of 14, prepared by manufacturer, dtd 09/09/12 & last revised on 01/09/2014, signed & sealed by Luis R. Lomas, P.E.

B. TESTS (submitted under file #12-0926.07)

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of aluminum out folding glass door, prepared by National Certified Testing Laboratories, York, PA, Test Report No. **NCTL-110-15005-1**, dated 09/10/12 and last revised on 10/16/13, signed and sealed by Harold E. Rupp, P. E.

Note: This test report have marked-up drawings issued on 06-11-12 and 07/16/13 by NCTL.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014(5th edition), dated 10/29/15, prepared, signed and sealed by Luis R. Lomas, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 & -09.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS(except item #1, other items submitted under file #12-0926.07)


1. Notice of Acceptance No. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/17.
2. Test report No.ETC-07-1043-119094.0, prepared by ETC Laboratories, dated 04/30/07, issued to Technoform Bautech NA., Inc for their I-Strut (PA 6.6 GF-25) per ASTM D638-03 "Standard Test Methods for Tensile Properties of Plastics" for exposed & unexposed sample per Xenon Arch after 4500 Hours, signed and sealed by Joseph Labora Doldan, P.E.
3. Test report No.6126.01-106.18, prepared by Architectural Testing, dated 12/13/05 w/ Rev 1 dated 01/04/06, issued toTechnoform Bautech NA., Inc for their I-Strut (PA 6.6 GF-25) per ASTM D2843-99"Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics", ASTM D635-98 "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position", signed and sealed by Joseph A. Reed, P.E.
4. Test report No. PN 105435, issued by ARD Lab dated 09-24-12 per ASTM C-864 for material compound # 270555, issued to Portage Precision Polymer Inc., signed by Jim Drummond, Testing Manager.

F. STATEMENTS

1. Statement letter of conformance and letter of no financial interest, dated 10/27/15, prepared, signed and sealed by Luis R. Lomas, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA revises #12-0926.07, expiring 02/20/19.
2. Test proposal # **11-0811**, dated SEP 07, 2011, approved by BNC.


Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 18-1106.06
Expiration Date: February 20, 2024
Approval Date: September 19, 2019

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New Evidence submitted

A. DRAWINGS

1. Drawing No. **08-01740 Rev D**, titled "Alum Out fold Door", sheets 1 through 14 of 14, prepared by manufacturer, dated 09/09/12 and last revised on 08/20/2019, signed and sealed by Luis R. Lomas, P.E.

(Note: Drawing revision consist of FBC code change notes and anchor embedment/edge distance changes.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (6th edition), dated 10/17/18 and last revised on 08/14/2019 , prepared, signed and sealed by Luis R. Lomas, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **19-0305.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/08/24.

F. STATEMENTS

1. Statement letter of conformance and letter of no financial interest, dated 09/11/18, prepared, signed and sealed by Luis R. Lomas, P.E.

G. OTHER

1. This NOA **revises & renews #15-1109.02**, expiring 02/20/24.



Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 18-1106.06

Expiration Date: February 20, 2024

Approval Date: September 19, 2019

THIS DRAWING APPLIES ONLY TO THE PRODUCT SHOWN HEREIN. THIS DRAWING MAY NOT BE USED FOR ASSEMBLING, INSTALLATION OR APPROVAL OF A PRODUCT THAT IS NOT MANUFACTURED BY SOLAR INNOVATIONS, INC.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 6TH EDITION (2017) INCLUDING THE HVHZ.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. PROPERLY SECURED 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: ALUMINUM 6063-T6
6. UNITS MUST BE GLAZED PER ASTM E1300-04/09, SEE SHEET 12 FOR GLASS DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. FOR ANCHORING INTO WOOD FRAMING OR (2)2X BUCK USE #14 GRADE 5 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS FY=92KSI WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

11. FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS GRADE 5 OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. 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. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42

B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.

C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date FEB 20, 2024
Luis R. Lomas
Product Control

SIGNED: 08/20/2019

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
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4	ANCHORING LAYOUT
5	B.O.M.
6 – 8	CROSS SECTIONS AND GLAZING DETAILS
9 – 12	INSTALLATION DETAILS
13	WEEP DETAILS
14	COMPONENTS

SOLAR INNOVATION, INC.

31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR – REINFORCED
NOTES

DRAWN:
R.L.

DWG NO.
08-01740

REV
D

SCALE NTS

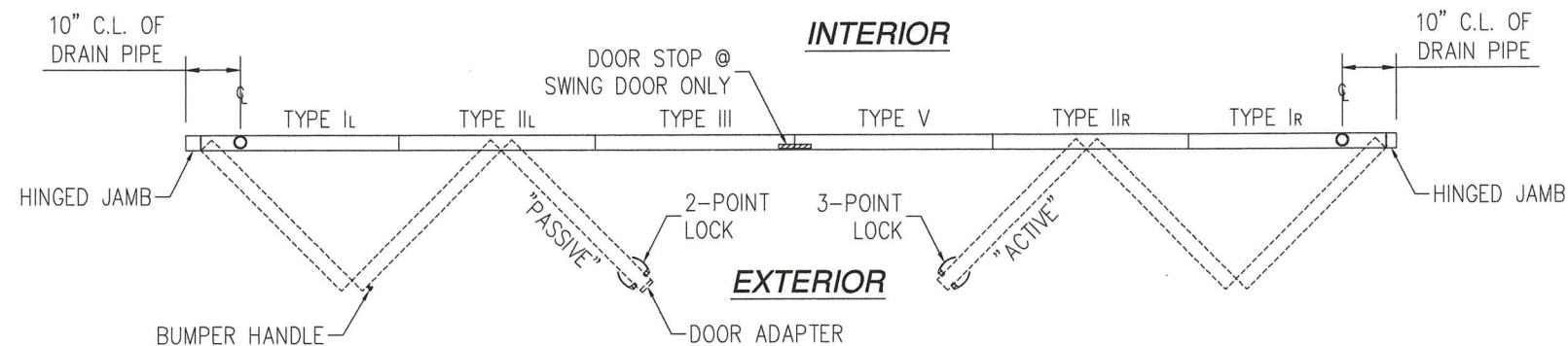
DATE 09/19/2012

SHEET 1 OF 14

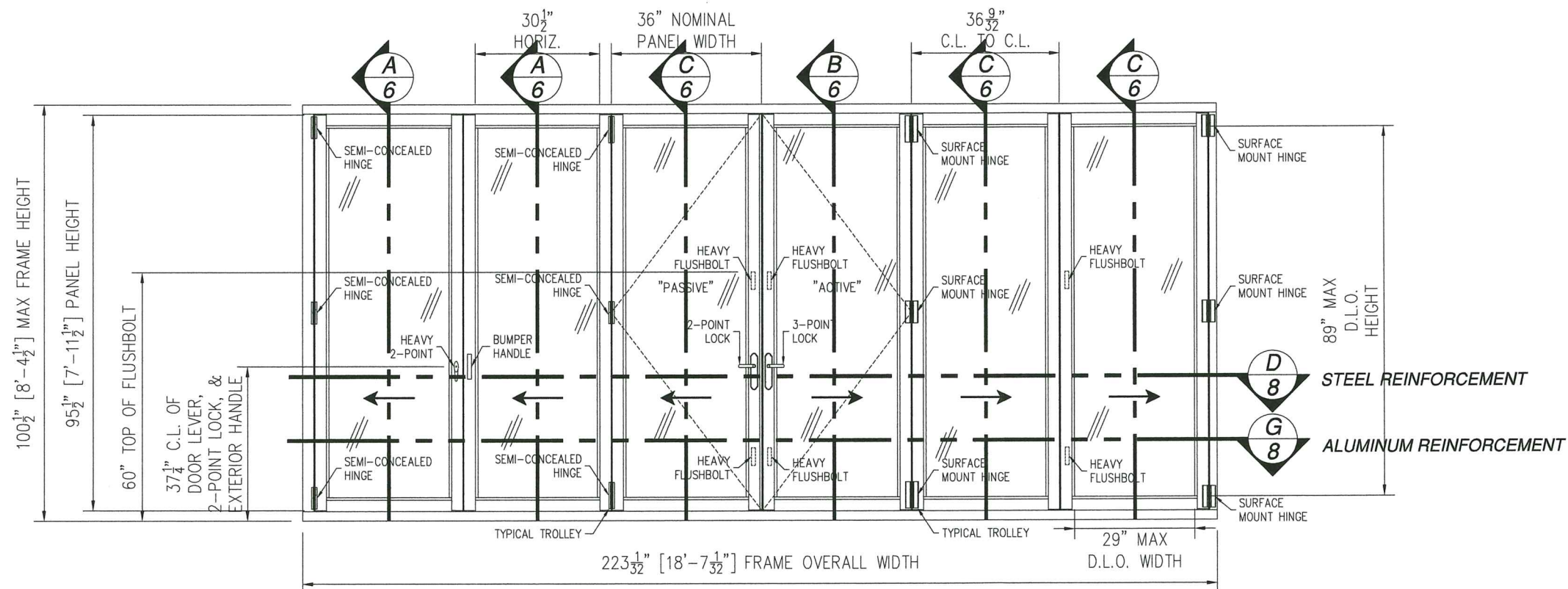
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS
LICENSE
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.



SI 3350 IMPACT FGW 3X8 PANEL OUTFOLD
EXTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATION ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 23.875 FT² AND USES VERTICAL CONDITIONS
AS SHOWN AND FRAME DOES NOT EXCEED 233.5 FT²

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

NOTES:
MAXIMUM PANEL SIZE: 36\" W X 95 1/2\"H

SOLAR INNOVATION, INC.

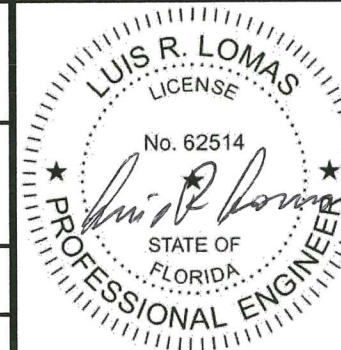
31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR – REINFORCED
FULL LITE ELEVATION

DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 2 OF 14

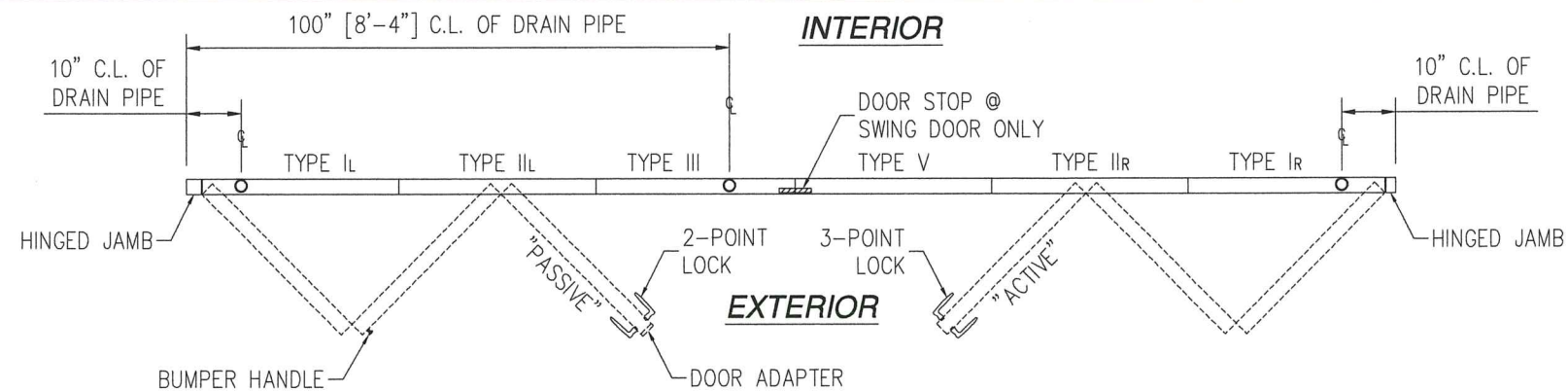
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

SIGNED: 08/20/2019

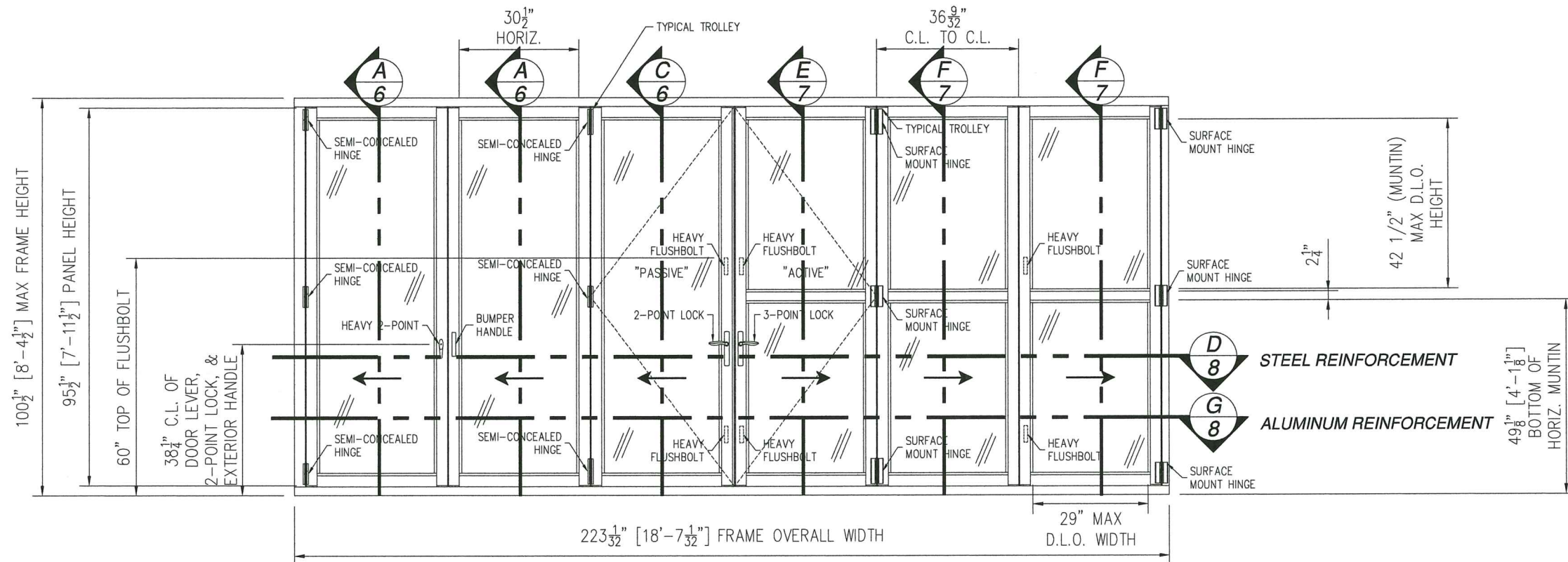


Luis R. Lomas P.E.
FL No.: 62514

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-1106-06
Expiration Date 2/20/2024
[Signature]
Product Control



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.



SI 3350 IMPACT FGW 3X8 PANEL OUTFOLD

EXTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATION ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 23.875 FT² AND USES VERTICAL
CONDITIONS AS SHOWN AND FRAME DOES NOT EXCEED 233.5 FT²

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

NOTES:
MAXIMUM PANEL SIZE: 36"W X 95 1/2"H

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
By: [Signature]
Product Control

SIGNED: 08/20/2019

SOLAR INNOVATION, INC.

31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR – REINFORCED
EQUAL LITE WITH PANIC BAR ELEVATION

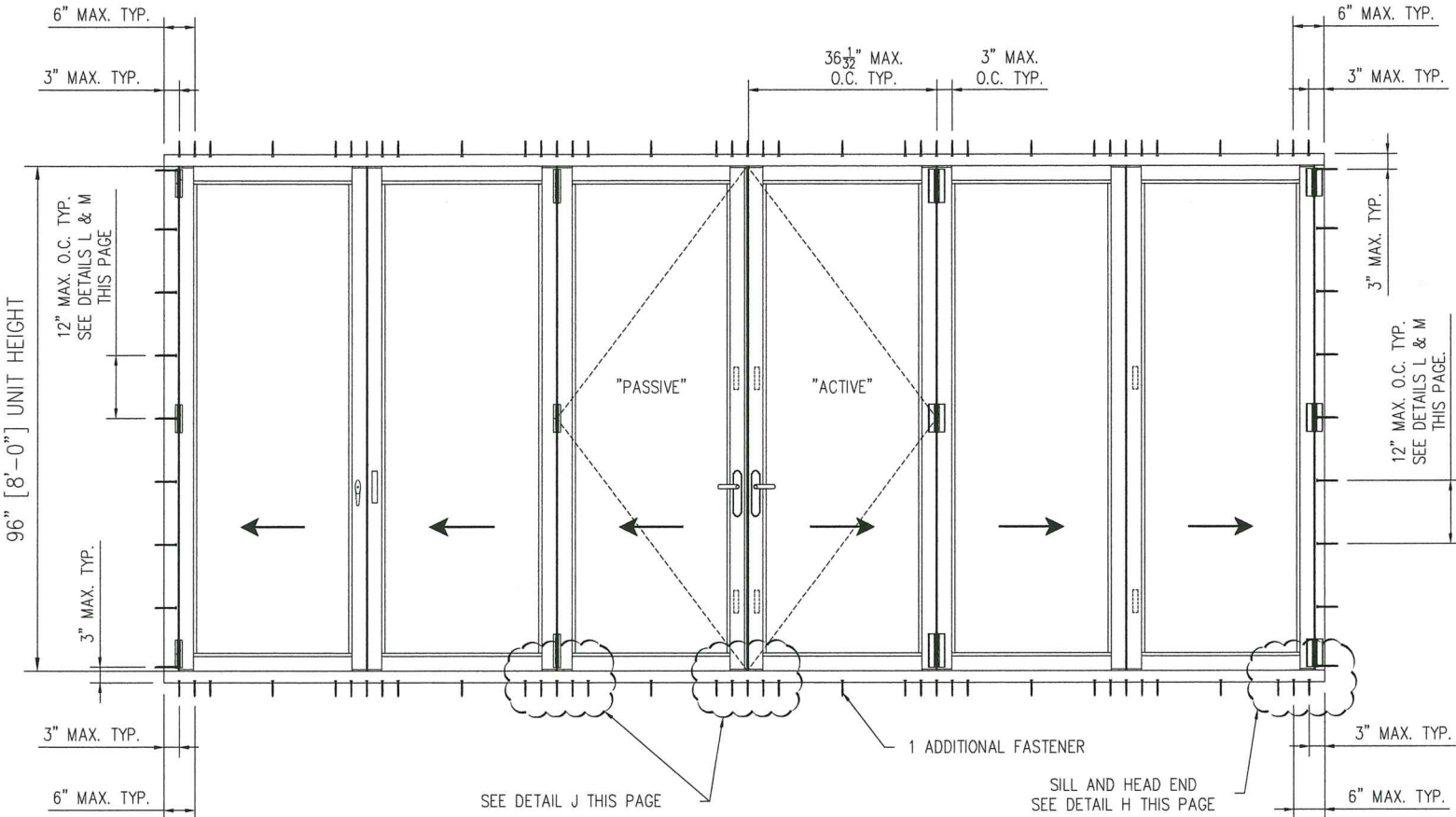
DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 3 OF 14

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

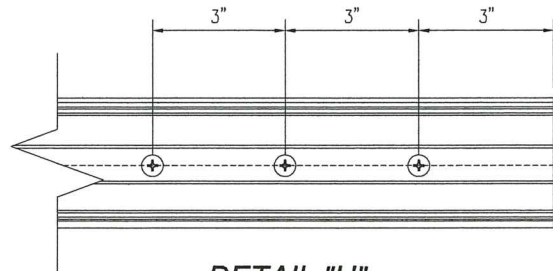


Luis R. Lomas P.E.
FL No.: 62514

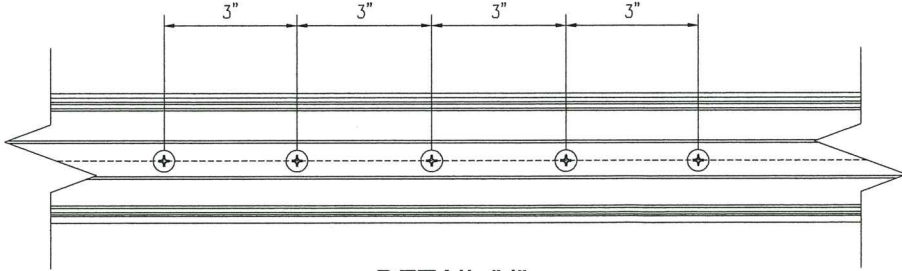
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.



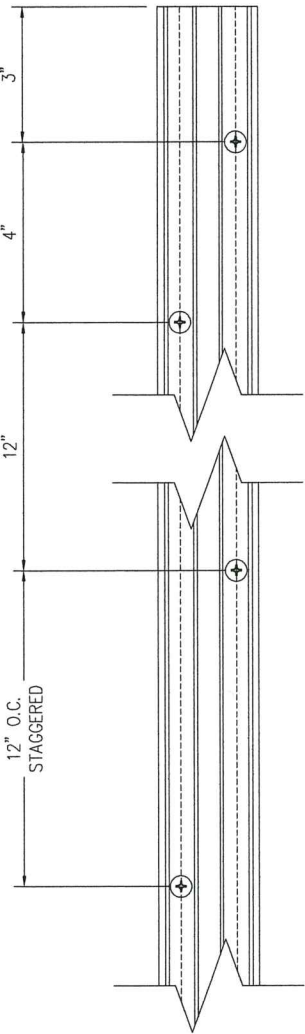
ANCHOR LAYOUT
APPLICABLE TO ALL CONFIGURATIONS.



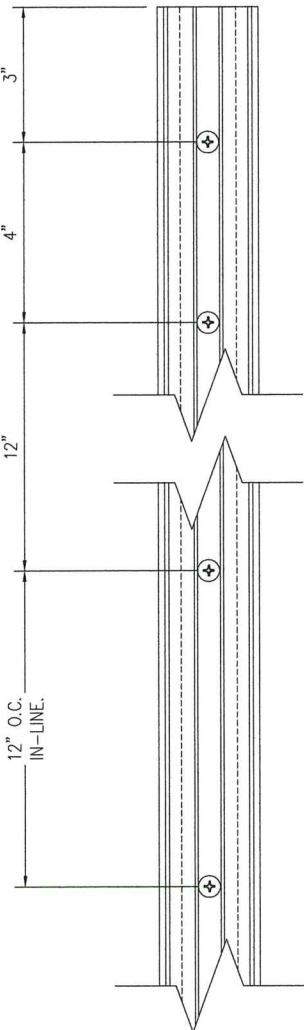
DETAIL "H"
SILL AND HEAD END



DETAIL "J"
SILL AND HEAD CLUSTER



JAMB INSTALLATION DETAIL M
JAMB WITHOUT JAMB REINFORCEMENT
(USED WITH TALL PROFILE ONLY)
SEE JAMB SECTIONS SHEET 11



JAMB INSTALLATION DETAIL L
JAMB WITH JAMB REINFORCEMENT ITEM #10

SIGNED: 08/20/2019

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
L. Roberto Lomas
Miami Code Product Control

SOLAR INNOVATION, INC.

31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR – REINFORCED
ANCHORING LAYOUT

DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 4 OF 14

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com



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

BILL OF MATERIALS				
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	H-12498-A	DUAL WHEEL HEAD/SILL ASSY	KEYMARK	ALUMINUM 6063-T5
2	S45004	FRAME	KEYMARK	ALUMINUM 6063-T6
3	S54168	FRAME CAP	KEYMARK	ALUMINUM 6063-T6
4	H07559	FRAME LUG	KEYMARK	ALUMINUM 6063-T6
5		STEEL CHANNEL	SOLAR STEEL	A-36 STEEL
6	47086	HANDLE - LOW PROFILE	KEYMARK	ALUMINUM 6063-T5
7		HANDLE - RECESSED/FLUSH	KEYMARK	ALUMINUM 6063-T5
8	S34713	GLASS STOP 1"	KEYMARK	ALUMINUM 6063-T6
9	S34714	GLASS STOP 9/16"	KEYMARK	ALUMINUM 6063-T6
10		JAMB REINFORCEMENT	SOLAR	STEEL
11	H10686	HINGE EXTENSION	KEYMARK	ALUMINUM 6105-T5
12	S50311	TROLLEY BODY	KEYMARK	ALUMINUM 6005-T5
13	S34717	IDLER BODY	KEYMARK	ALUMINUM 6105-T5
14	H10683	HINGE	KEYMARK	ALUMINUM 6105-T5
15	S34841	HINGE COVER	KEYMARK	ALUMINUM 6063-T5
16	H07562	HINGE BARREL	KEYMARK	ALUMINUM 6063-T5
17	H10684	HINGE SEMI CONCEALED	KEYMARK	ALUMINUM 6105-T5
18	S47543	FRAME LOW PROFILE	KEYMARK	ALUMINUM 6063-T5
19	4498-02-00	MULTIFIN GASKET	PORTAGE PRECISION	EPDM 70 SHORE A
20		#10-32 X 1/2" FH SS SCREW		
21		#6 X 1/2" FH SELF DRILLING SCREW		
22		1/8" SETTING BLOCK		MIN 70 SHORE A
23		FLASHING		MIN 70 SHORE A
24		#8 X 1/2" PH SELF DRILLING SCREW		
25		TROLLEY COVER	KEYMARK	ALUMINUM 6063-T5
26		#8-32 X 3/8" FH SMS		
27		3/4" ARROW SHIM		
28		1/8" HARD SHIM		
29		SIKA 552	SIKA	POLYURETHANE
30		TROLLEY ASSY BOTTOM LOAD		ALUMINUM 6063-T5
31	34720	DOOR STOP	KEYMARK	ALUMINUM 6063-T6
32		#10-24 X 1/2" FH SMS		
33		#12 X 1" FH SELF DRILLING SCREW		
34	GA000247-00-02	GASKET		
35		2 POINT LOCK		
36		#10-32 X 1" FH SMS		
37	49050	SLIDE-IN DOOR STOP	KEYMARK	ALUMINUM 6063-T6
38	GA000022-00-02	BULB GASKET		
39	40921	DOOR ADAPTER	KEYMARK	ALUMINUM 6063-T6
40		FLUSH BOLT		
41		DOOR SWEEP GASKET		
42		DOOR LEVER "MILAN" 2 POINT LOCK		
43	44793	MUNTIN	KEYMARK	ALUMINUM 6063-T6
44		SURFACE MOUNT HINGE	KEYMARK	ALUMINUM 6063-T5
45		#10-32 X 3/8" FH SMS		
46		DOOR LEVER "TORONTO" 2 POINT LOCK		
47	S49375	U REINFORCEMENT	KEYMARK	ALUMINUM 6063-T5
48		THERMAL BREAK	TECHNOFORM	POLYAMIDE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
By: [Signature]
Product Control

SOLAR INNOVATION, INC.

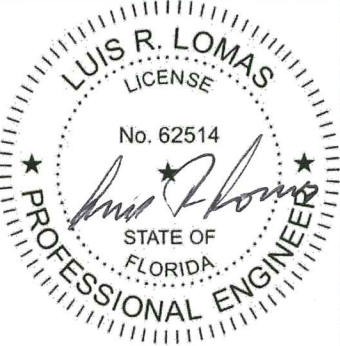
31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR - REINFORCED
B.O.M.

DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 5 OF 14

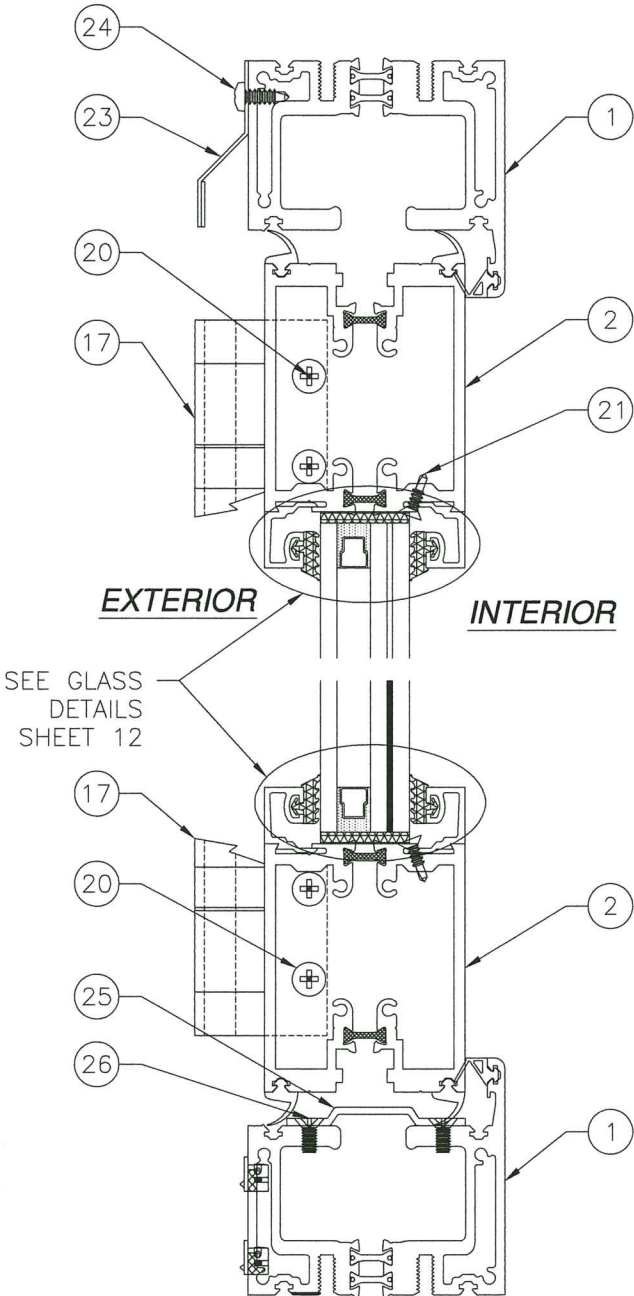
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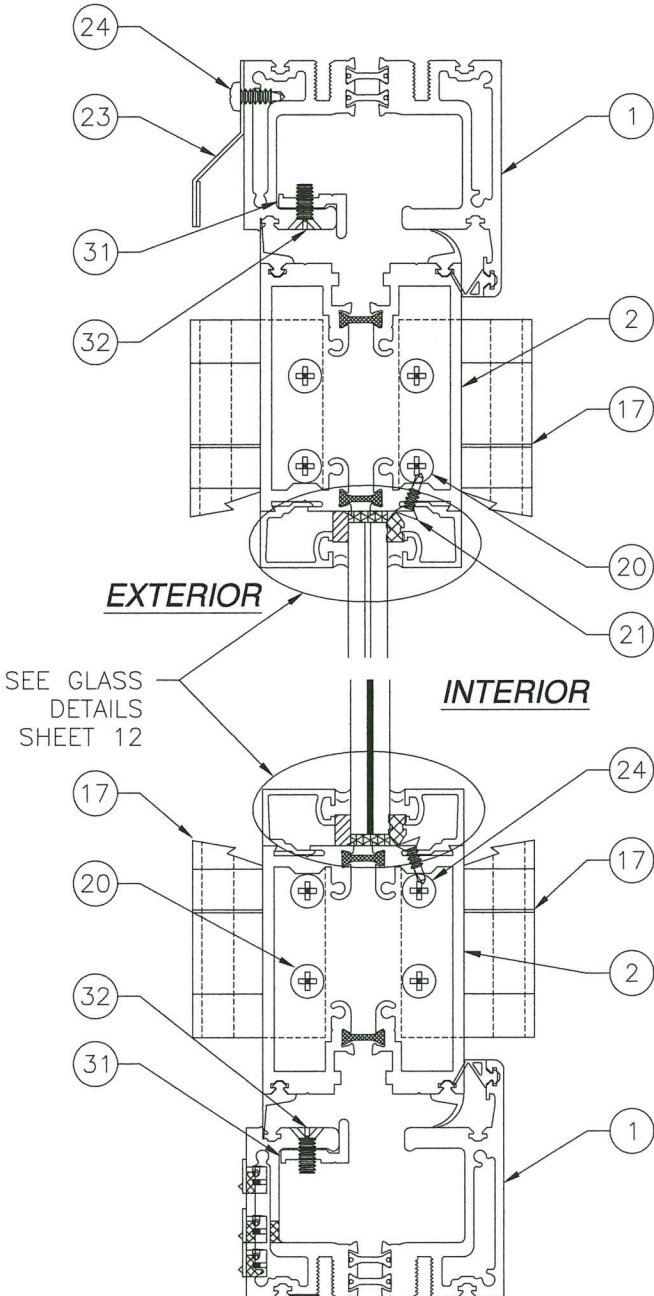


Luis R. Lomas P.E.
FL No.: 62514

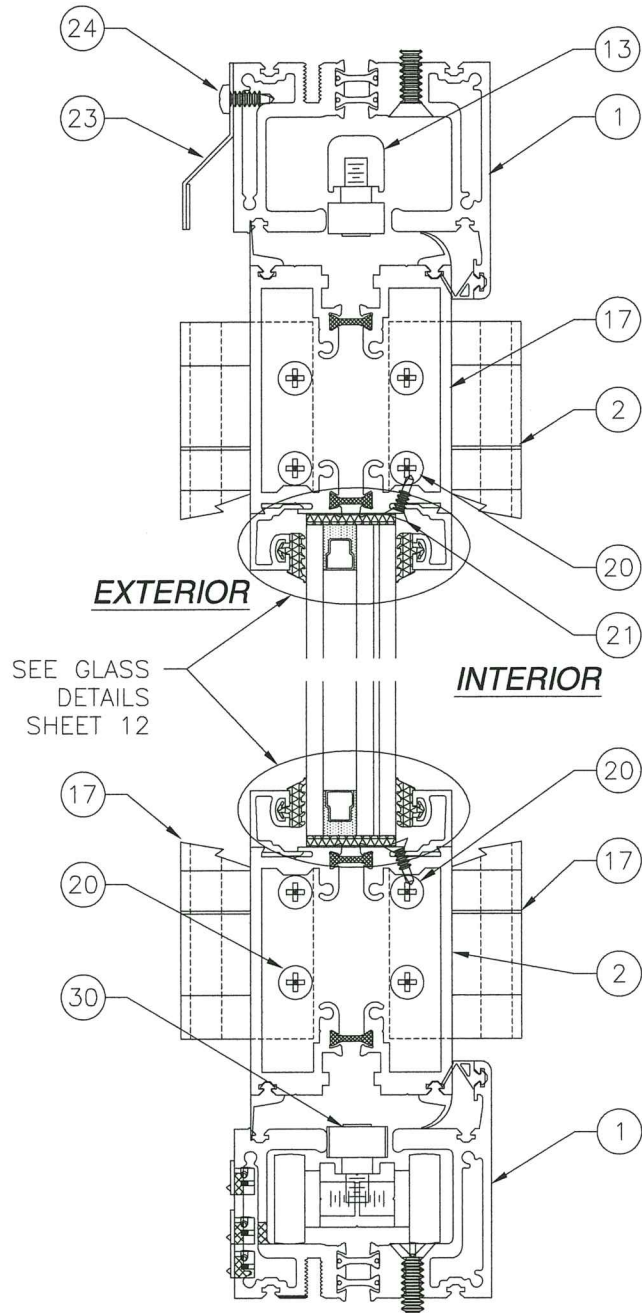
FOR ILLUSTRATION ONLY SEE INSTALLATION DETAILS
ON SHEETS 9-11



A
6
VERTICAL CROSS SECTION
OUTFOLD



B
6
VERTICAL CROSS SECTION
OUTFOLD



C
6
VERTICAL CROSS SECTION
OUTFOLD BOTTOM LOAD

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.

PRODUCT REVIEW
as complying with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
By: [Signature]
Title: Product Control

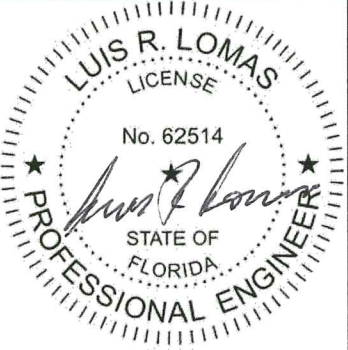
SOLAR INNOVATION, INC.
31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR - REINFORCED
VERTICAL CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 6 OF 14

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

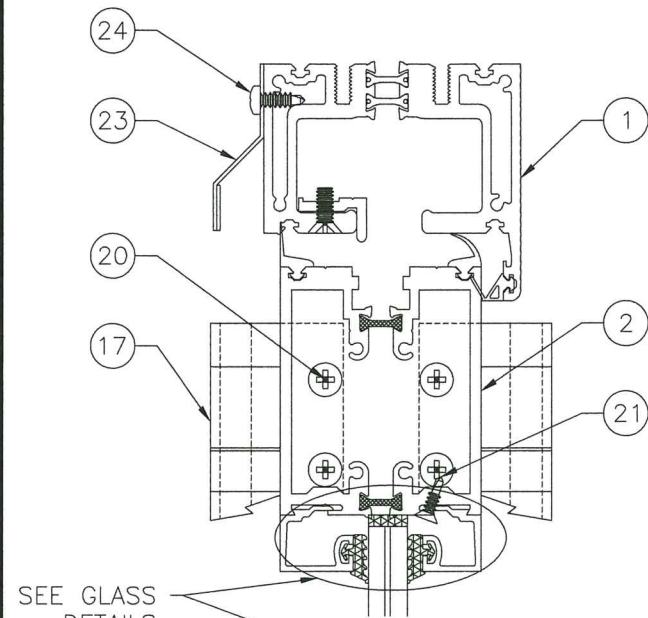
SIGNED: 08/20/2019



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

FOR ILLUSTRATION ONLY SEE INSTALLATION DETAILS ON SHEETS 9-11

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.

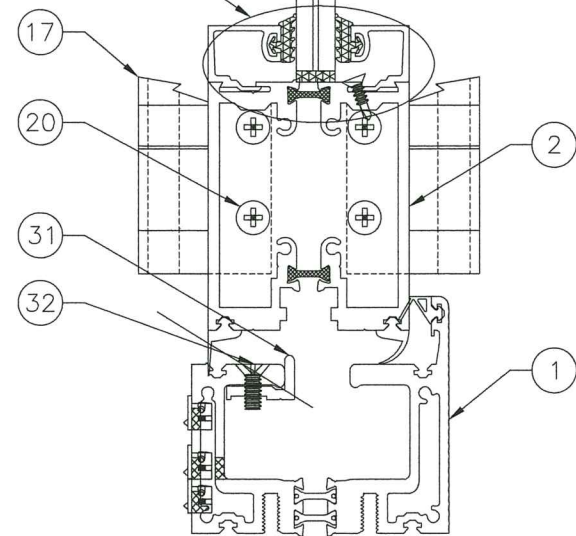


SEE GLASS
DETAILS
SHEET 12

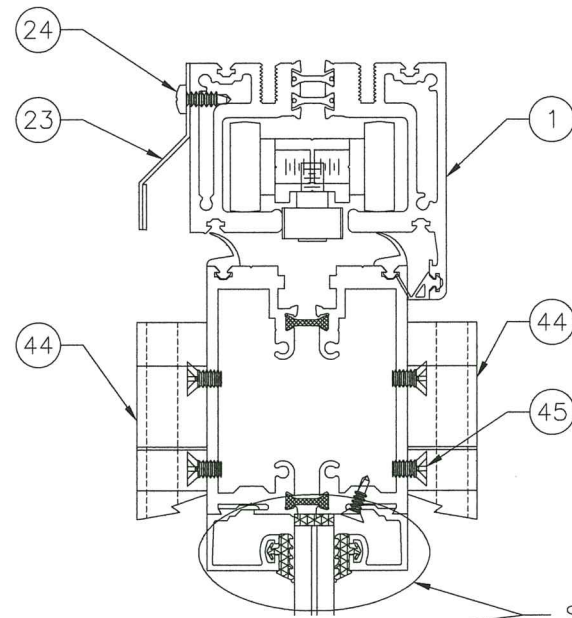
EXTERIOR

INTERIOR

SEE GLASS
DETAILS
SHEET 12



E
7 VERTICAL CROSS SECTION
OUTFOLD

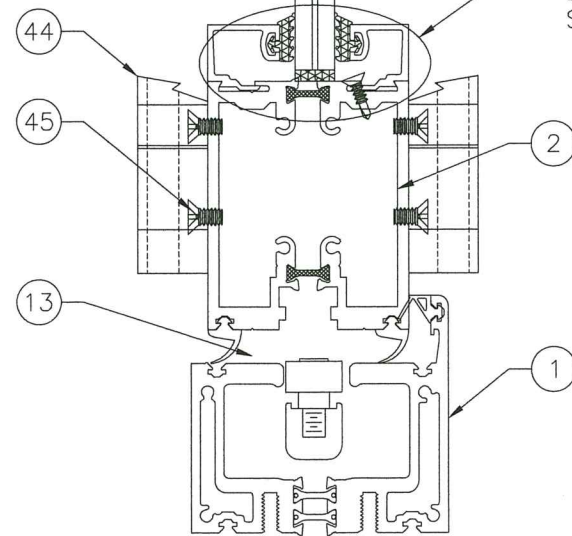


SEE GLASS
DETAILS
SHEET 12

EXTERIOR

INTERIOR

SEE GLASS
DETAILS
SHEET 12



F
7 VERTICAL CROSS SECTION
OUTFOLD TOP LOAD

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
By: [Signature]
Manufacturer Product Control

SOLAR INNOVATION, INC.

31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR - REINFORCED
VERTICAL CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 7 OF 14

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

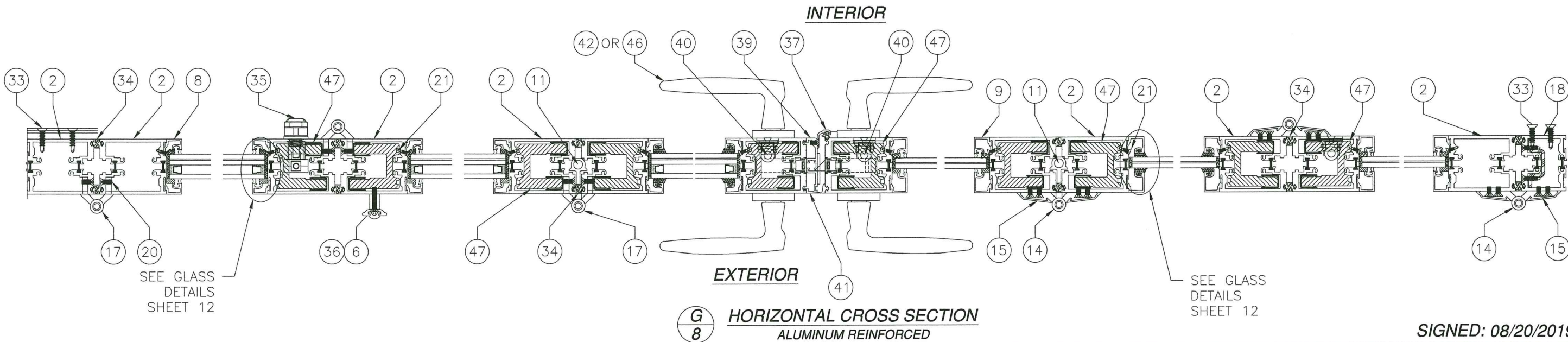
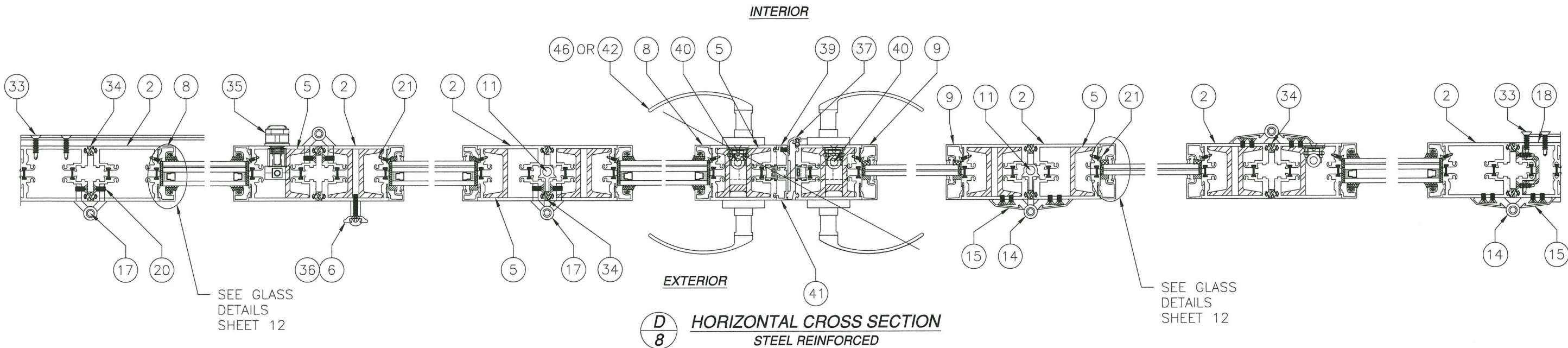
SIGNED: 08/20/2019



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

FOR ILLUSTRATION ONLY SEE INSTALLATION DETAILS ON SHEETS 9-11

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.



SIGNED: 08/20/2019

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1166-06
Expiration Date 2/20/2024
L. Roberto Lomas
Mr. Roberto Lomas Product Control

SOLAR INNOVATION, INC.
31 ROBERTS RD.
PINE GROVE, PA 17963

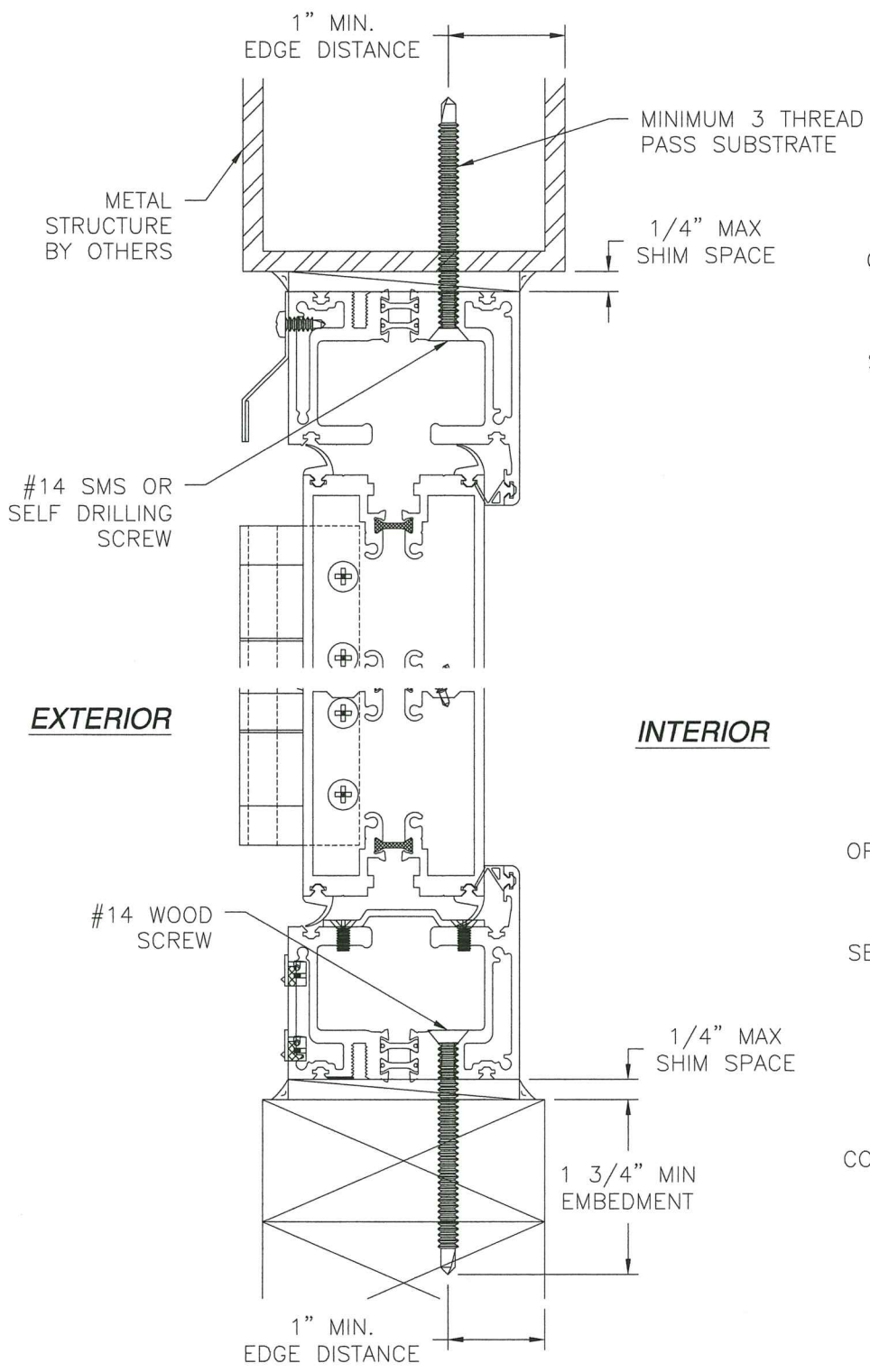
SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR - REINFORCED
HORIZONTAL CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 8 OF 14

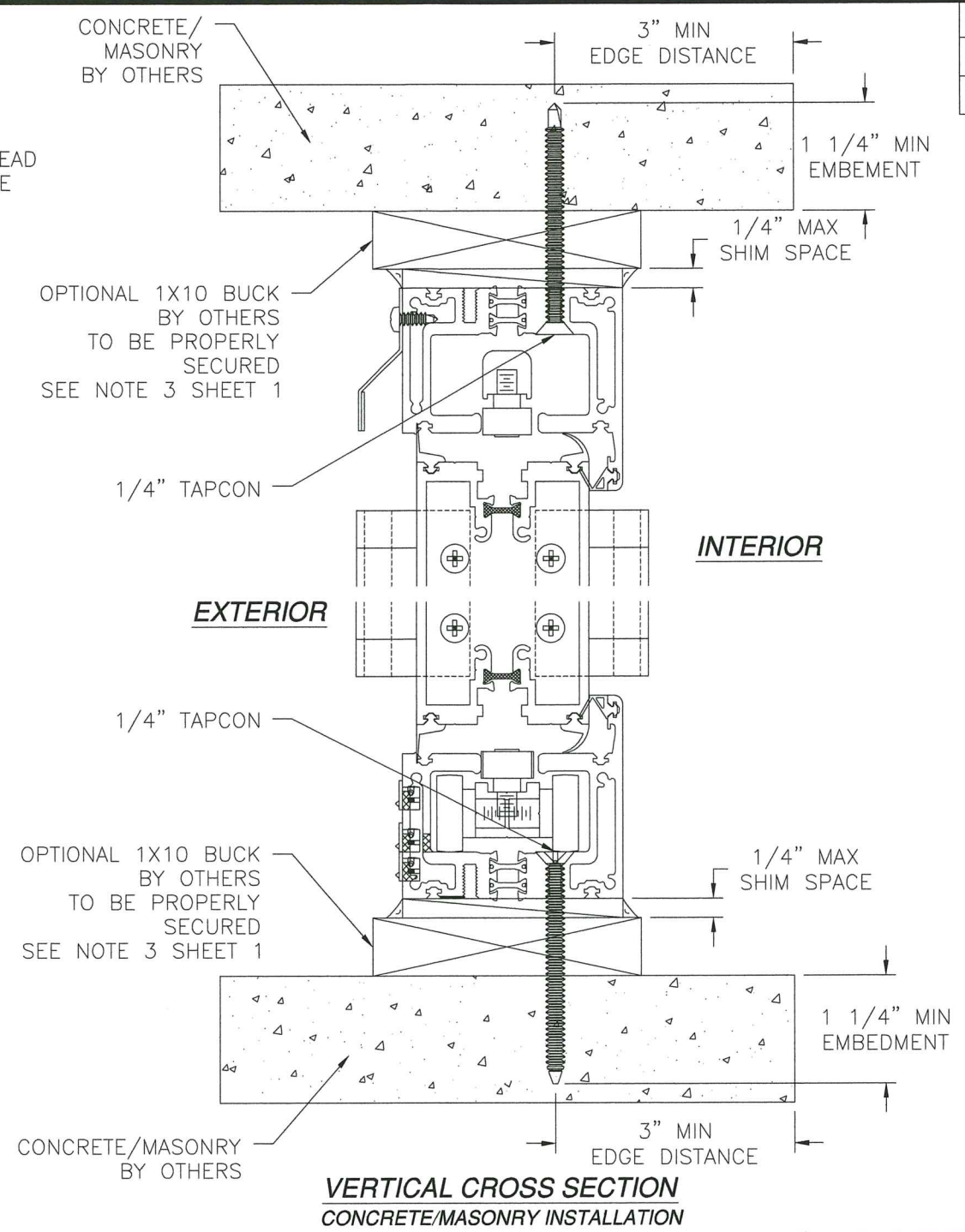
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com

LUIS R. LOMAS
LICENSE
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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



VERTICAL CROSS SECTION
WOOD FRAMING OR (2)X2 BUCK
OR METAL STRUCTURE INSTALLATION



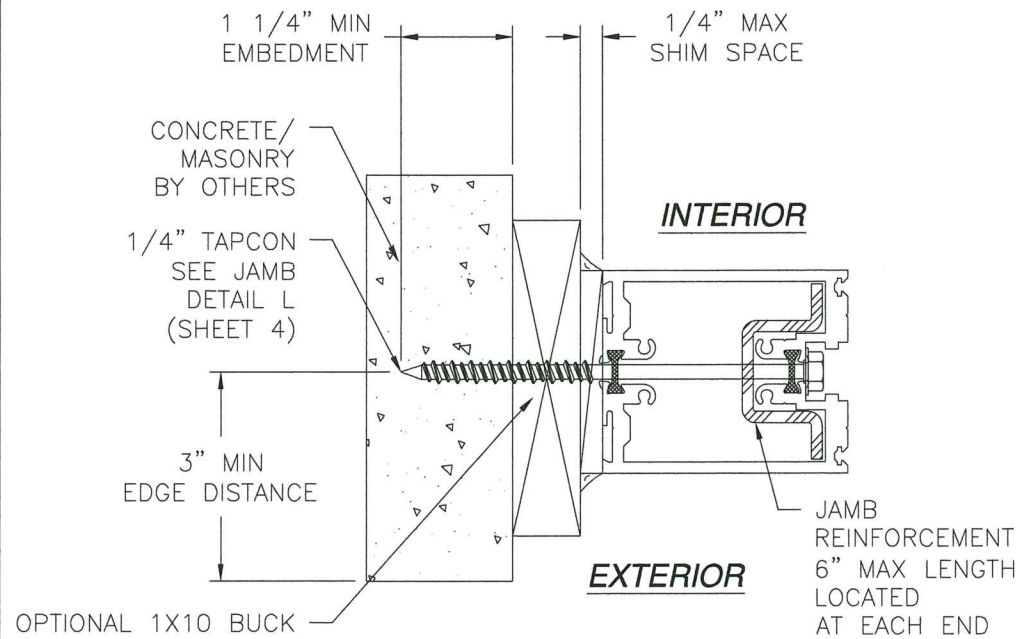
VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.

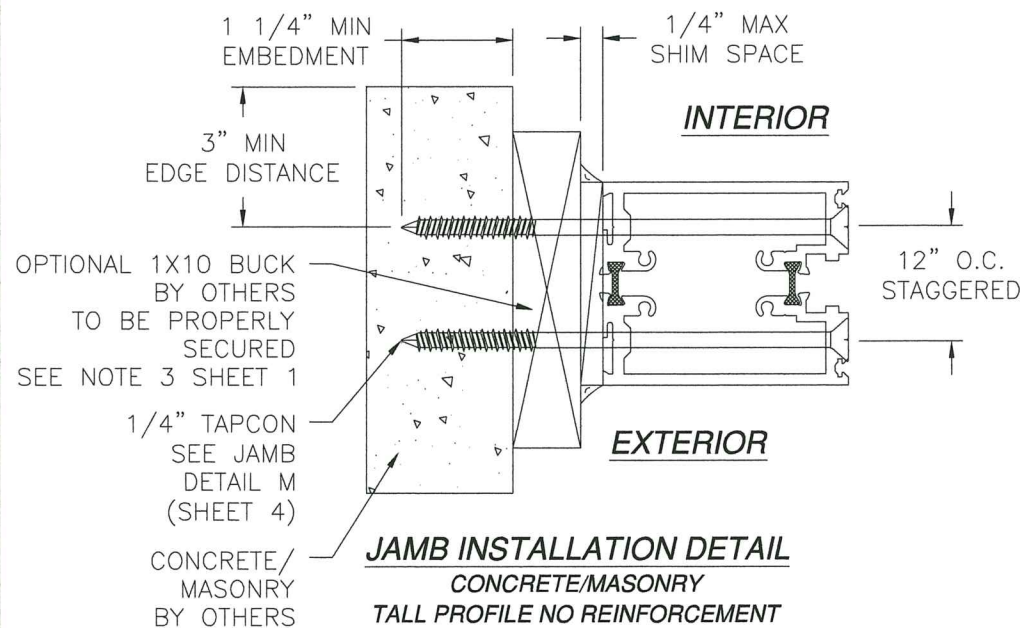
- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 08/20/2019

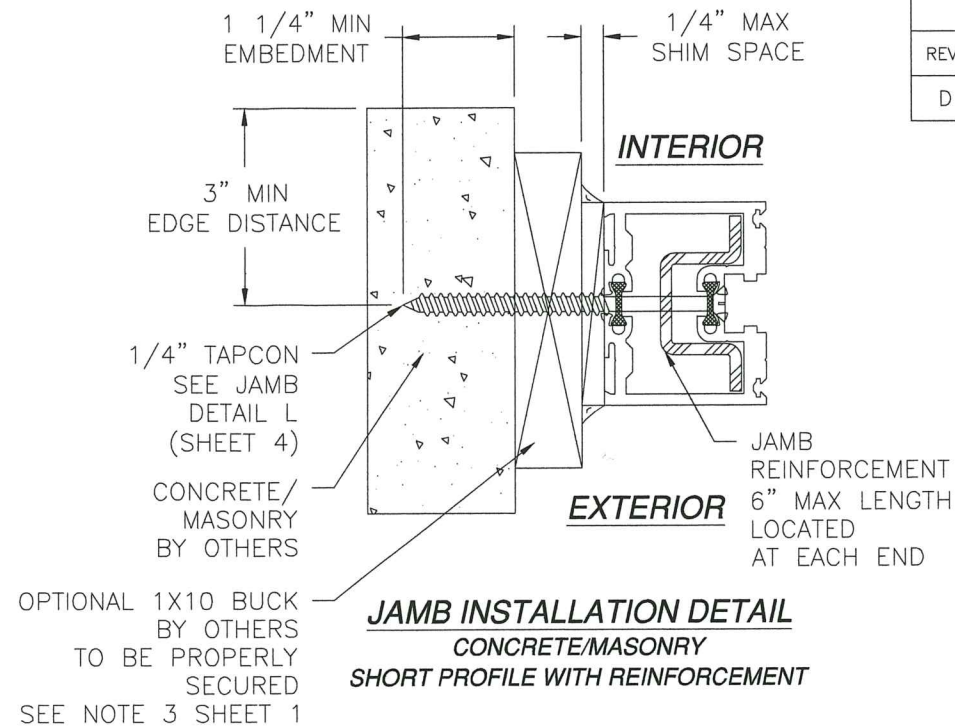
<p>PRODUCT REVIEWED as complying with the Florida Building Code Acceptance No. 18-1106-06 Expiration Date 2/20/2024 By: <i>Luis R. Lomas</i> Mr. and Mrs. Product Control</p>			<p>SOLAR INNOVATION, INC. 31 ROBERTS RD. PINE GROVE, PA 17963</p>		
			<p>SI 3350 IMPACT FGW 3X8 PANEL ALUMINUM OUTFOLD DOOR – REINFORCED INSTALLATION DETAILS</p>		
<p>DRAWN: R.L.</p>	<p>DWG NO. 08-01740</p>	<p>REV D</p>	<p>Luis R. Lomas P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com</p>		
<p>SCALE NTS</p>	<p>DATE 09/19/2012</p>	<p>SHEET 9 OF 14</p>			



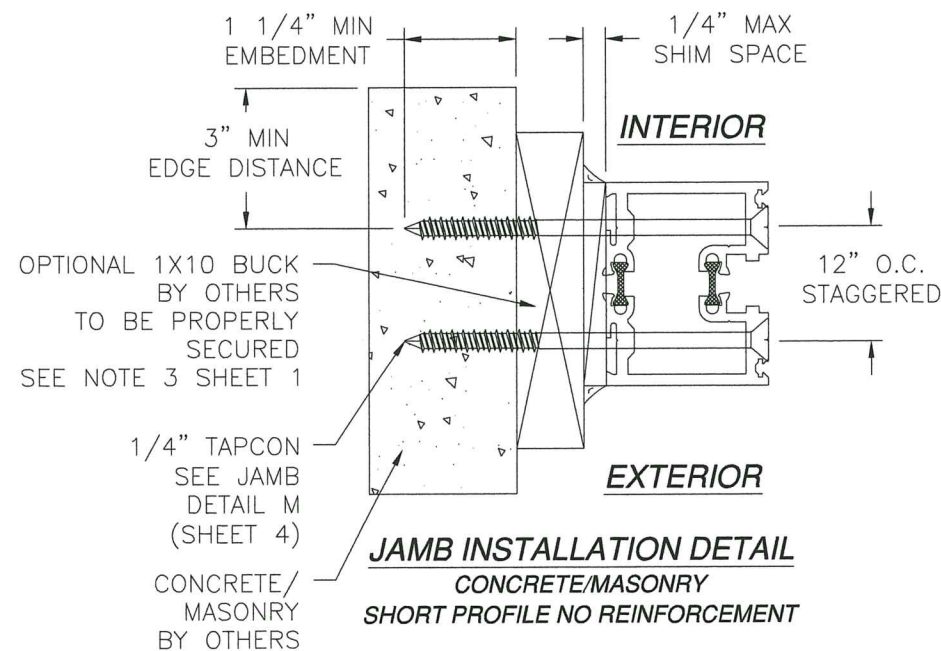
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
TALL PROFILE WITH REINFORCEMENT



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
TALL PROFILE NO REINFORCEMENT



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
SHORT PROFILE WITH REINFORCEMENT



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY
SHORT PROFILE NO REINFORCEMENT

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.

NOTES:

1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 08/20/2019

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
Luis R. Lomas
Mr. and Mrs. Product Control

SOLAR INNOVATION, INC.

31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR - REINFORCED
INSTALLATION DETAILS

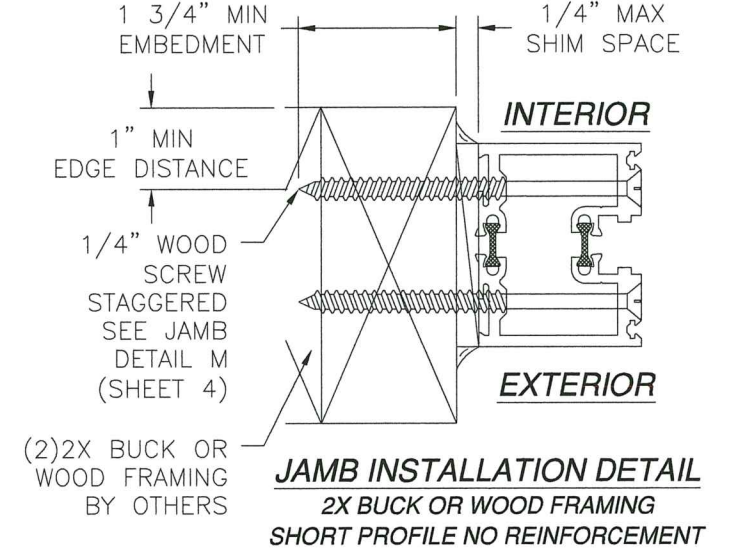
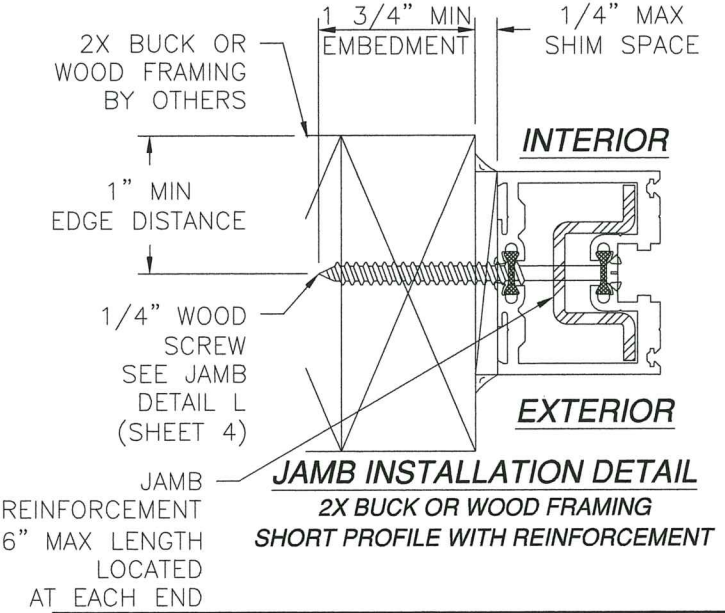
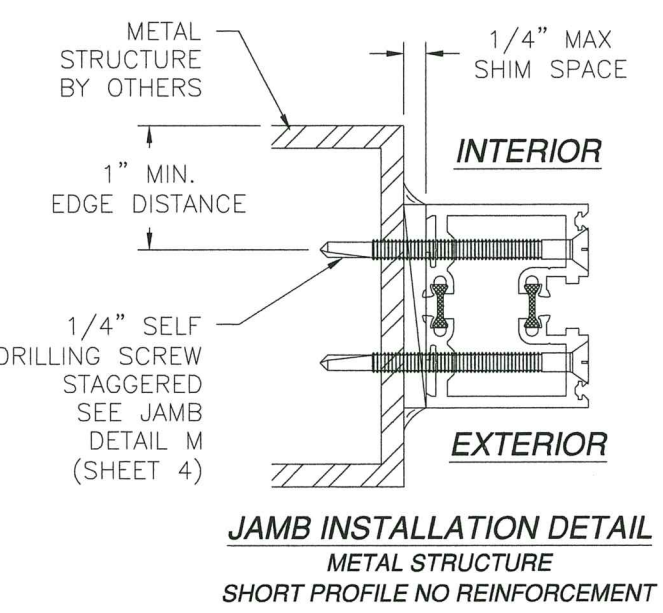
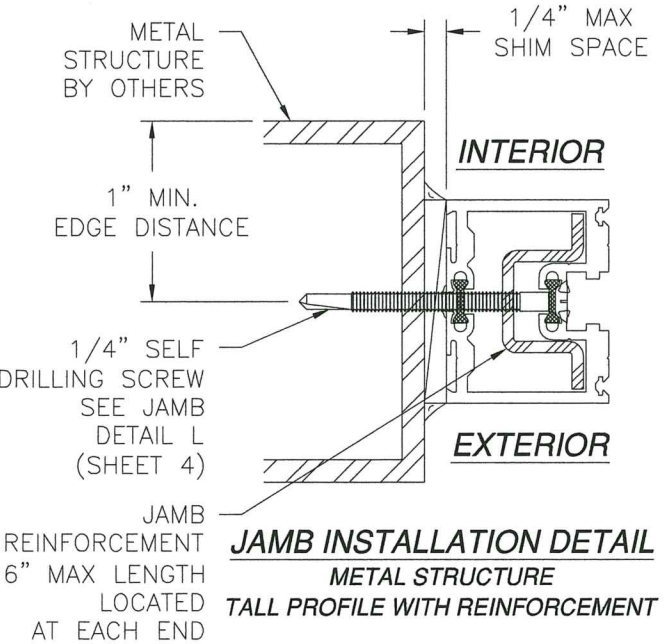
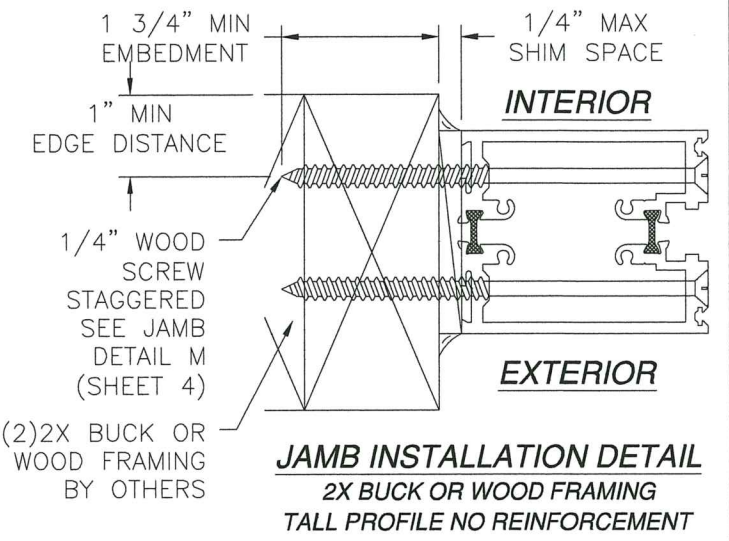
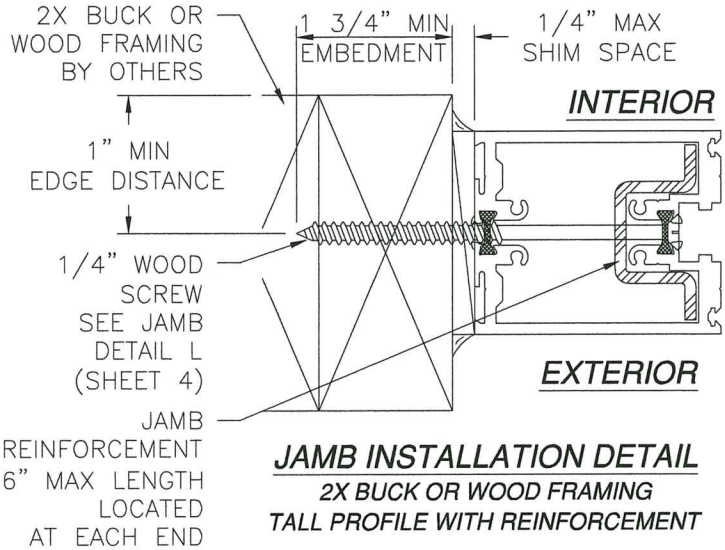
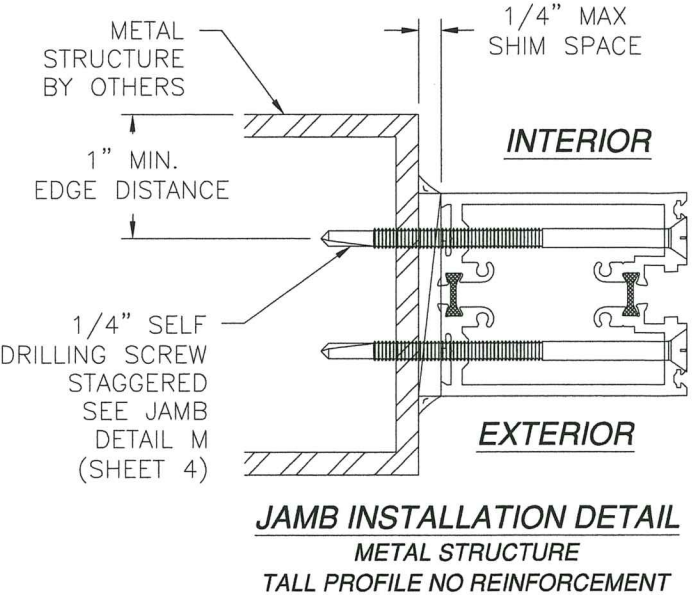
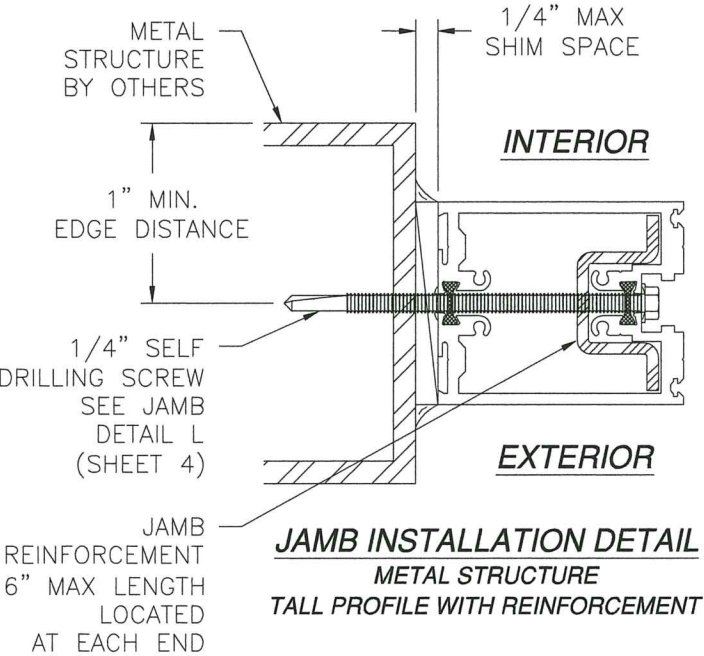
DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 10 OF 14

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.

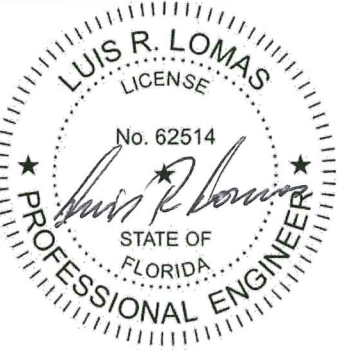


- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
By: [Signature]
Manufacturer Product Control

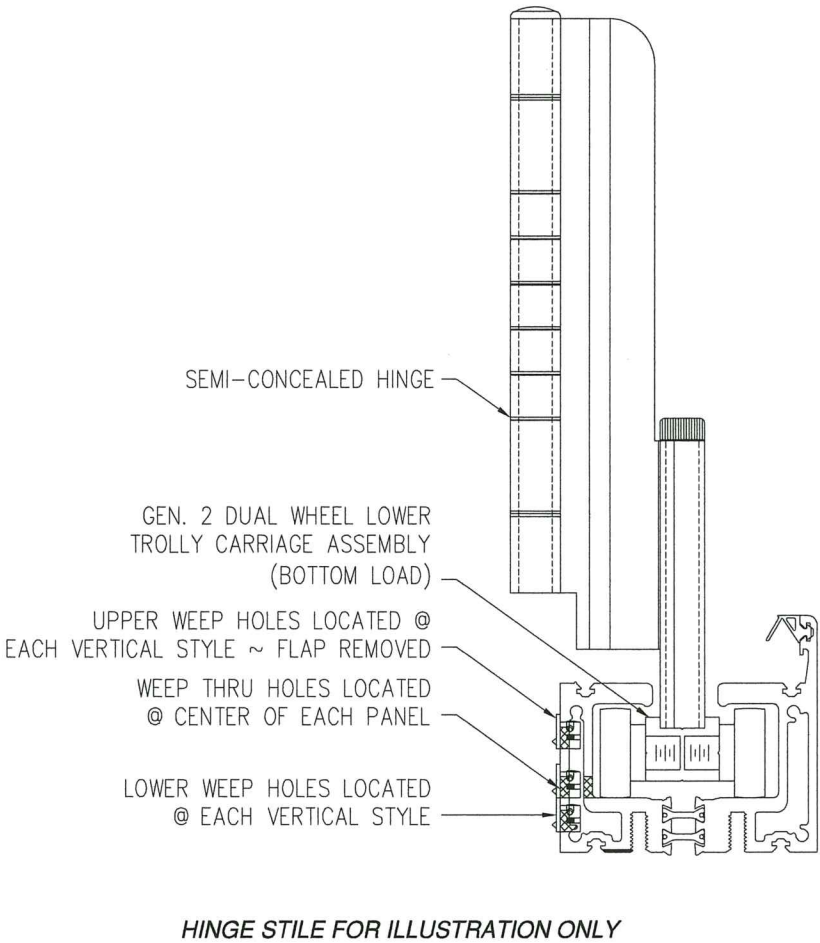
SOLAR INNOVATION, INC. 31 ROBERTS RD. PINE GROVE, PA 17963		
SI 3350 IMPACT FGW 3X8 PANEL ALUMINUM OUTFOLD DOOR – REINFORCED INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 11 OF 14
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/20/2019

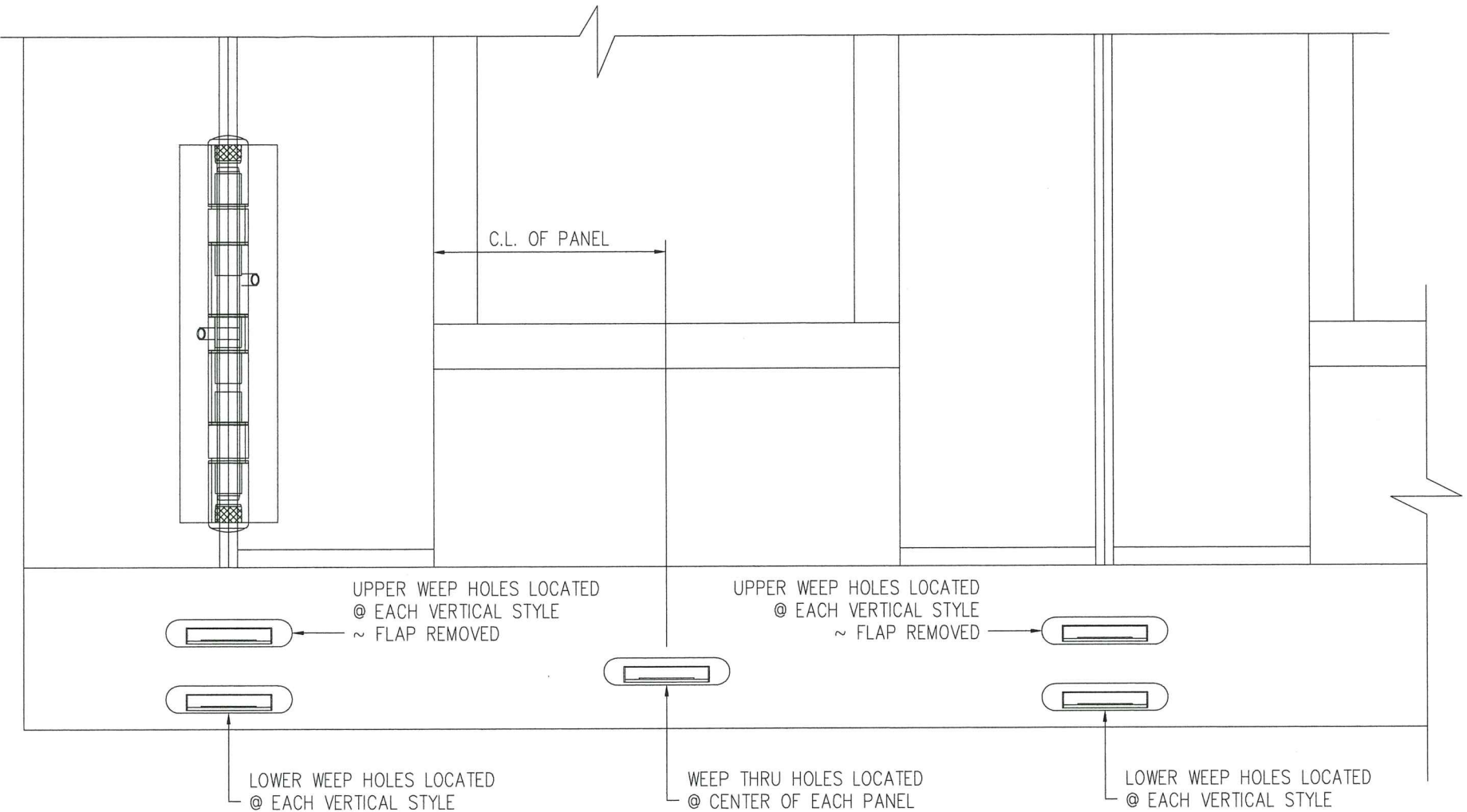


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.



WEEP LOCATIONS



SIGNED: 08/20/2019

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
L. Roberto Lomas
Miami Code Product Control

SOLAR INNOVATION, INC.
31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR – REINFORCED
WEEP LOCATIONS

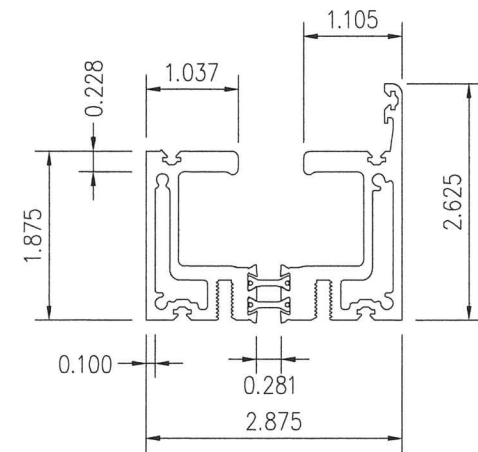
DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 13 OF 14

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

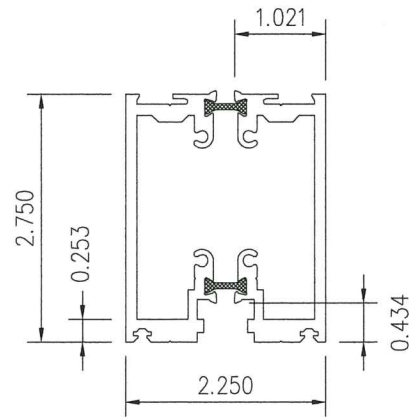
LUIS R. LOMAS
LICENSE
No. 62514
Luis R. Lomas
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

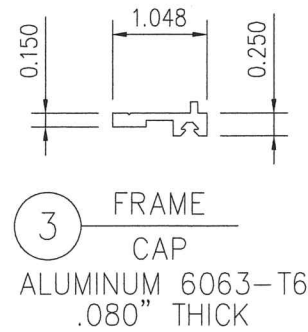
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW REQUIREMENTS	09/11/18	R.L.



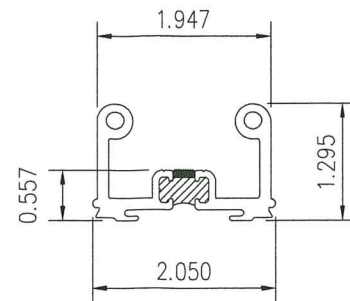
1 DUAL WHEEL
HEAD / SILL
ALUMINUM 6063-T6
.100" THICK



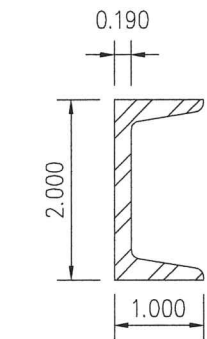
2 FRAME
ALUMINUM 6063-T6
.125" THICK



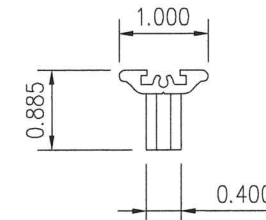
3 FRAME
CAP
ALUMINUM 6063-T6
.080" THICK



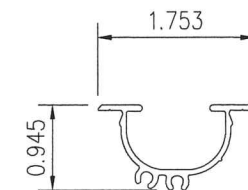
4 FRAME
LUG
ALUMINUM 6063-T6
.125" THICK



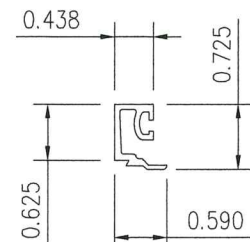
5 STEEL
INSERT



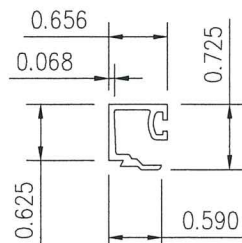
6 LOW-PROFILE
HANDLE



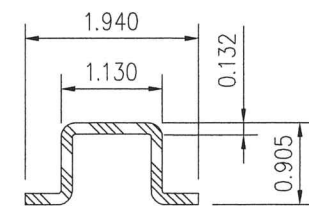
7 RECESSED / FLUSH
HANDLE



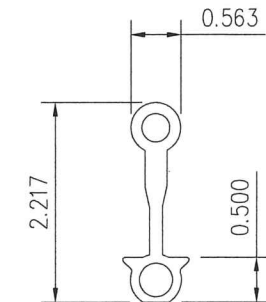
8 1" GLASS
STOP
ALUMINUM 6063-T6
.060" THICK



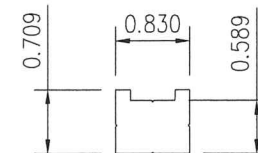
9 9/16" GLASS
STOP
ALUMINUM 6063-T6
.060" THICK



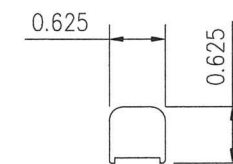
10 JAMB
REINFORCEMENT



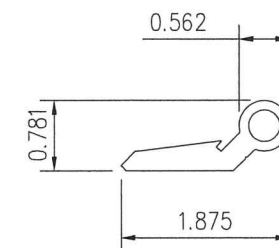
11 HINGE
EXTENSION
ALUMINUM 6105-T5
.150" THICK



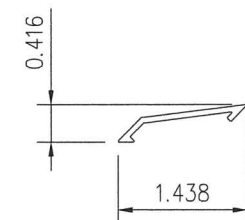
12 TROLLEY
BODY
ALUMINUM 6005-T5



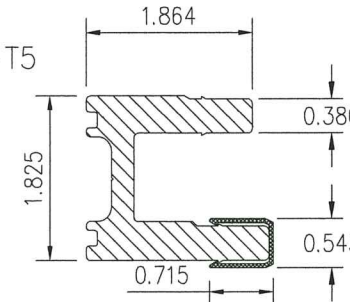
13 IDLER
BODY
ALUMINUM 6105-T5



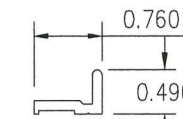
14 5 1/4"
HINGE
ALUMINUM 6105-T5



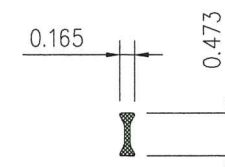
15 5 1/4"
HINGE COVER
ALUMINUM 6063-T6
.060" THICK



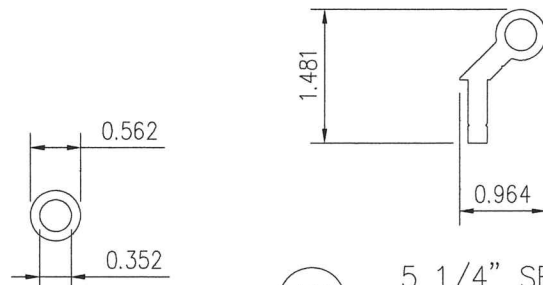
17 U ALUMINUM
REINFORCEMENT
ALUMINUM 6063-T5
.250" THICK



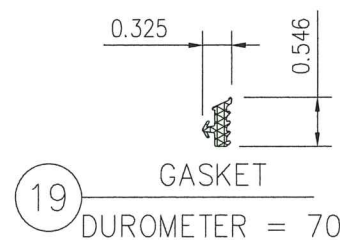
31 DOOR STOP
ALUMINUM 6063-T6
.110" THICK



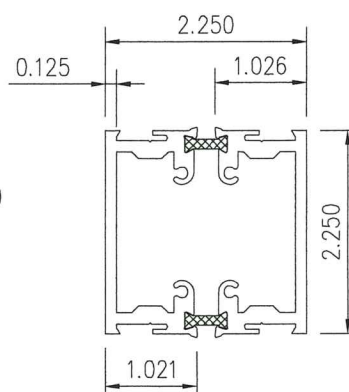
48 THERMAL BREAK
POLYAMIDE(PA66GF-25)



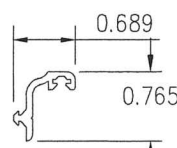
16 HINGE
BARREL
ALUMINUM 6063-T6
.105" THICK



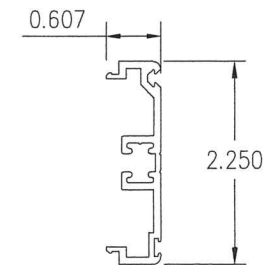
19 GASKET
DUROMETER = 70



43 MID RAIL
FRAME
ALUMINUM 6063-T6
.125" THICK



37 SLIDE-IN DOOR STOP
ALUMINUM 6063-T6
.070" THICK



39 DOOR ADAPTER
ALUMINUM 6063-T6
.080" THICK

SIGNED: 08/20/2019

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 18-1106-06
Expiration Date 2/20/2024
Luis R. Lomas
Professional Engineer

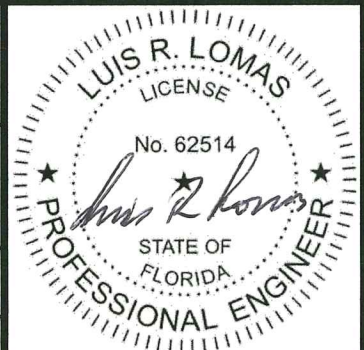
SOLAR INNOVATION, INC.

31 ROBERTS RD.
PINE GROVE, PA 17963

SI 3350 IMPACT FGW 3X8 PANEL
ALUMINUM OUTFOLD DOOR - REINFORCED
COMPONENTS

DRAWN: R.L.	DWG NO. 08-01740	REV D
SCALE NTS	DATE 09/19/2012	SHEET 14 OF 14

L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@rlomaspe.com



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