

## **NOTICE OF ACCEPTANCE (NOA)**

**Florida Storm Panel Supply, LLC**  
**14475 N. W. 26<sup>th</sup> Avenue**  
**Opa Locka, Florida 33054**

### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

### **DESCRIPTION: 0.060" Aluminum Storm Panels Shutter**

**APPROVAL DOCUMENT:** Drawing No. KC22-0308, titled "0.060" Aluminum Storm Panel", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated November 22, 2022, signed and sealed by J.W. Knezevich, P.E., on 07/12/23, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### **MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise 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 NOA # 22-1108.02** and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Handwritten signature: H. A. Makar*  
*Handwritten date: 09/21/2023*

**NOA No 23-0720.07**  
**Expiration Date: 12/29/2027**  
**Approval Date: 09/21/2023**

**Florida Storm Panel Supply, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 96-0304.01**

**A. DRAWINGS**

1. *Drawing No. 95-549, Florida Storm Panels, Inc. Storm Panel, Sheets 1 through 4 of 4 prepared by Knezevich & Associates Inc., dated 01/04/96, Revision No. 2, dated 06/06/96, signed and sealed by V.J. Knezevich, P.E.*

**B. TESTS**

1. *Test report on: Uniform Static Air Pressure Test, Impact Test, and Cyclic Wind Load Test prepared by Construction Testing Corporation, Report No. CTC-95-036, dated November 14, 1995, signed and sealed by Christopher G. Tyson, P.E.*

**C. CALCULATIONS**

1. *Comparative analysis and anchor calculations, dated 12/18/95, prepared by Knezevich & Associates Inc., signed and sealed by V.J. Knezevich, P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *Mill Certified Inspection Reports issued by MSC Metals, dated 09/29/95.*
2. *Certified Tensile Test Report issued by QC Metallurgical, Inc., QCM Job No. 5KM-2636, dated November 15, 1995, signed and sealed by James Roese, P.E.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 99-0726.01**

**A. DRAWINGS**

1. *Drawing No. 99-230, titled "0.060" Aluminum Storm Panel", prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E., dated July 19, 1999, last revision #2 dated August 5, 1999, sheets 1 through 4 of 4.*

**B. TESTS**

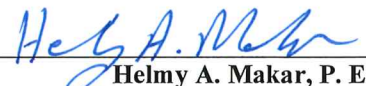
1. *None. See Product Approval # 96-0304.01.*

**C. CALCULATIONS**

1. *Anchor Calculations and details for 0.060" Aluminum Storm Panels, dated July 20, 1999, pages 1 through 28, prepared by Knezevich & Associates, Inc., signed and sealed by V.J. Knezevich, P.E.*

**D. MATERIAL CERTIFICATIONS**

1. *None. See Product Approval # 96-0304.01.*



Helmy A. Makar, P. E.  
Product Control Section Supervisor  
NOA No 23-0720.07  
Expiration Date: 12/29/2027  
Approval Date: 09/21/2023

**Florida Storm Panel Supply, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0531.05**

**A. DRAWINGS**

1. *Drawing No. 99-230, titled " 0.060" Aluminum Storm Panel ", sheets 1 through 4 of 4, prepared by Knezevich & Associates, Inc., dated July 19, 1999, last revision #4 dated May 23, 2002, signed and sealed by V. J. Knezevich, P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0826.06**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*


**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 22-1108.02**

**A. DRAWINGS**

1. *Drawing No. KC22-0308, titled " 0.060" Aluminum Storm Panel ", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated November 22, 2022, signed and sealed by J.W. Knezevich, P.E.*

**B. TESTS**

1. *None.*

  
\_\_\_\_\_  
Helmy A. Makar, P. E.  
Product Control Section Supervisor  
NOA No 23-0720.07  
Expiration Date: 12/29/2027  
Approval Date: 09/21/2023



**Florida Storm Panel Supply, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. *Comparative analysis and anchor calculations, dated 11/02/2022, prepared by Knezevich Consulting, LLC, signed and sealed by J.W. Knezevich, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. OTHERS**

1. *Compliance letter prepared by Knezevich Consulting, LLC, signed and sealed by J.W. Knezevich, P.E., on 11/02/2022, certify compliance with the FBC, 2020 Edition.*

**6. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. KC22-0308, titled " 0.060" Aluminum Storm Panel ", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated November 22, 2022, signed and sealed by J.W. Knezevich, P.E., on 07/12/23.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. OTHERS**

1. *Compliance letter prepared by Knezevich Consulting, LLC, signed and sealed by J.W. Knezevich, P.E., on 07/12/2023, certify compliance with the FBC, 2020 Edition and 2023 Edition.*



Helmy A. Makar, P. E.  
Product Control Section Supervisor  
NOA No 23-0720.07  
Expiration Date: 12/29/2027  
Approval Date: 09/21/2023



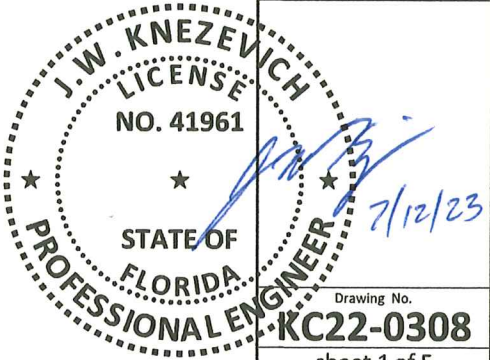
GENERAL NOTES:

1. This Product Evaluation Document (PED) represents a Large Missile Impact Protective Shutter System analyzed and tested in accordance with the provisions set forth for the issuance of a Notice of Acceptance (NOA) by Miami-Dade Department of Regulatory and Economic Resources, Product Control Section. This system is designed and tested in accordance with the Florida Building Code, Building, 7th Edition (2020) & 8th Edition (2023) for use within and outside of the High Velocity Hurricane Zone.
2. Product performance testing was conducted in accordance with TAS 201, TAS 202, & TAS 203.
3. Determine the Positive and Negative Design Loads to use when referencing these documents in accordance with FBC Section 1609 for Non-HVHZ & FBC Section 1620 for the HVHZ utilizing Allowable Stress Design (ASD) load factors, ie. calculated wind loads shall be multiplied by the load factor 0.6 before referencing these documents.
4. For wind load calculations, a Directionality Factor of  $K_d = 0.85$  may be used.
5. No allowable stress increase is utilized in the design of this system; however, a wind load duration factor of  $C_d = 1.6$  is used for screws designed per NDS.
6. These PEDs are generic and do not include information prepared for application of this system to a specific site.
7. These PEDs are suitable to be applied by the Contractor provided the Contractor does not deviate from the conditions detailed herein and the Contractor verifies that the existing structure does not deviate in either form or material from the structural substrates detailed herein.
8. The Contractor shall verify the adequacy of the existing structure to sustain the shutter superimposed loads.
9. Any modifications or additions to these PEDs will void the documents.
10. When site conditions deviate from the PEDs, the Building Official may elect one of the following options:
- A. Require that site specific documents justifying the deviation be prepared, signed, dated, and sealed by a licensed engineer or registered architect and submitted to the Product Engineer for review prior to the Building Official approving the deviation.
- B. Require that a one-time site specific approval be applied for and obtained from Miami-Dade's Product Control Section.
- Within the HVHZ, only Option B is acceptable.
11. Each panel of the assembly shall be permanently labeled within 12" of one end of the panel with a minimum of one marking per panel with the following minimum information:
- Florida Storm Panel Supply  
Opa Locka, FL  
Miami-Dade County Product Control Approved
12. Aluminum storm panels shall be 3003-H14 aluminum alloy, 0.060" thick, with a minimum  $F_y = 21$  ksi before rolling.
13. All bolts and washers shall be galvanized or stainless steel with a min tensile strength of 60 ksi.
14. All extrusions shall be 6063-T6 aluminum alloy, u.o.n.
15. Top and bottom details may be interchanged as field conditions require. Panels may be mounted horizontally where applicable. "h" & "U" headers may not be used for horizontal mounting conditions.
16. Tracks may be removable provided removable anchors are used.
17. If panel overlaps opening by 1.5 times the gap between the wall and panel, no side closures are required.
18. Panels shall be fastened at overlaps (12.5" o.c.) at midspan w/ 1/4-20 x 1" machine bolts with die cast aluminum washered wingnuts or jacknuts (See Typical Elevation 15).  
Panels utilizing a steel tube to reduce deflection shall be fastened to overlaps at midspan to a 1" x 1" x 16 gage steel tube using 1/4-20 x 3.5" bolts w/ die cast aluminum washered wingnuts or jacknuts (See Typical Elevation 15).  
For panels less than 33", overlap fasteners & tube are not required.
19. At least one warning note per opening shall be placed in a conspicuous location on any of the components of the storm panel system advising the home owner or tenant that the storm panels will not offer hurricane protection unless all reinforcing bolts and/or tubes are properly installed when required. Warning label shall be fastened mechanically or with permanent adhesive.

Table 1	
STORM PANEL SPAN SCHEDULE	
NEGATIVE WIND LOAD w (psf)	OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED.
	MAX. PANEL LENGTH
40	8' - 5"
50	8' - 5"
60	8' - 5"
70	7' - 3"
80	6' - 4"
90	5' - 8"
100	6' - 4"
110	5' - 9"
120	5' - 3"
130	4' - 11"
140	4' - 6"
150	4' - 3"
160	3' - 11"
170	3' - 9"
180	3' - 6"
190	3' - 4"
200	3' - 2"

Table 2				
MIN. STORM PANEL SEPARATION FROM GLASS SCHEDULE				
POSITIVE DESIGN WIND LOAD w (psf)	ACTUAL SHUTTER SPAN L	MINIMUM SEPARATION FOR INSTALLATIONS 30' OR LESS ABOVE GRADE		MINIMUM SEPARATION FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE
		MIDSPAN BAR	MIDSPAN BOLTS	ALL CONDITIONS
40	4' - 0"	2-1/4"	3"	1-1/8"
	5' - 0"			1-1/8"
	6' - 0"			1-1/4"
	7' - 0"			1-1/2"
	8' - 5"			2"
50	4' - 0"	2-1/4"	3"	1-1/8"
	5' - 0"			1-1/4"
	6' - 0"			1-3/8"
	7' - 0"			1-5/8"
	8' - 5"			2-1/4"
60	4' - 0"	2-1/4"	3"	1-1/8"
	5' - 0"			1-1/4"
	6' - 0"			1-3/8"
	7' - 0"			1-3/4"
	8' - 5"	2-3/8"	3"	2-3/8"
70	3' - 0"	2-1/4"	3"	1-1/8"
	4' - 0"			1-1/8"
	5' - 0"			1-1/4"
	6' - 0"			1-1/2"
	7' - 0"			1-7/8"
	7' - 3"			2"

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 23-0720.07  
Expiration Date 12/29/2027  
By: *H. S. A. M. S.*  
Miami Dade Product Control



**KNEZEVICH CONSULTING**  
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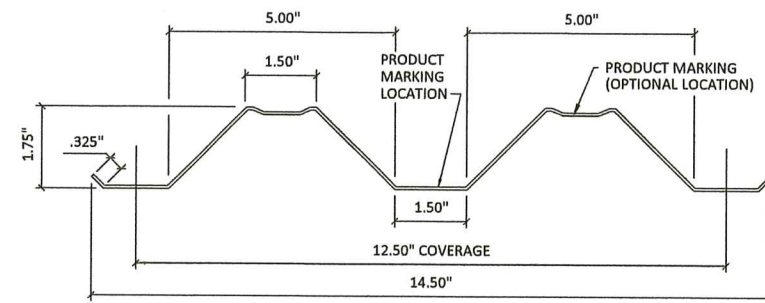
**0.060" ALUMINUM STORM PANEL**  
Florida Storm Panel Supply  
14475 NW 26 Avenue  
Opa Locka, Florida 33054  
P: 305-685-9000

Revisions		Description	
No.	Date	By	Manufacturer
1	07/12/2023	JWK	FBC 2023 Update

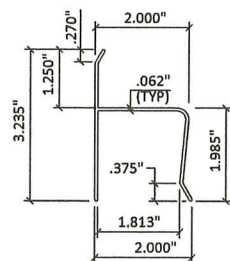
Scale: AS NOTED  
Drawn by: JWK  
Date: 11/22/2022  
J.W. Knezevich  
Professional Engineer  
FL License No. PE 41961

Drawing No. **KC22-0308**  
sheet 1 of 5

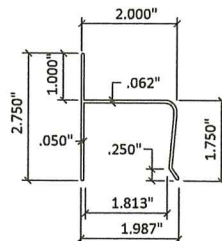




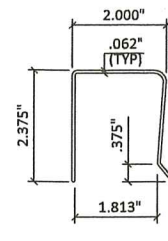
1 STORM PANEL  
SCALE : 3" = 1'-0"



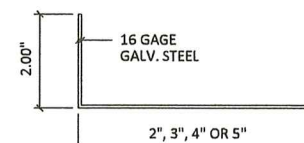
2 "h" HEADER  
SCALE : 3" = 1'-0"



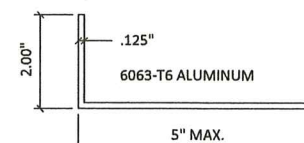
3 "h" HEADER  
SCALE : 3" = 1'-0"



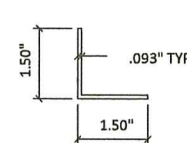
4 "U" HEADER  
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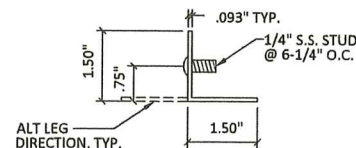
5 ANGLE  
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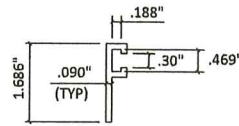
5a ANGLE  
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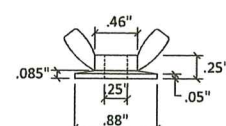
6 ANGLE  
SCALE : 3" = 1'-0"



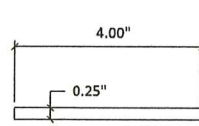
7 STUDDED ANGLE  
SCALE : 3" = 1'-0"



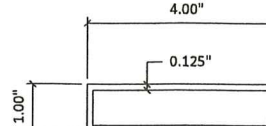
8 "F" TRACK  
SCALE : HALF SIZE



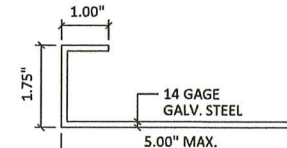
9 WINGNUT  
SCALE : HALF SIZE



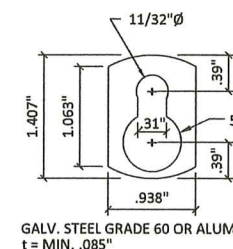
10 PLATE  
SCALE : 3" = 1'-0"



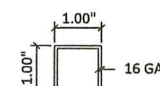
11 TUBE  
SCALE : 3" = 1'-0"



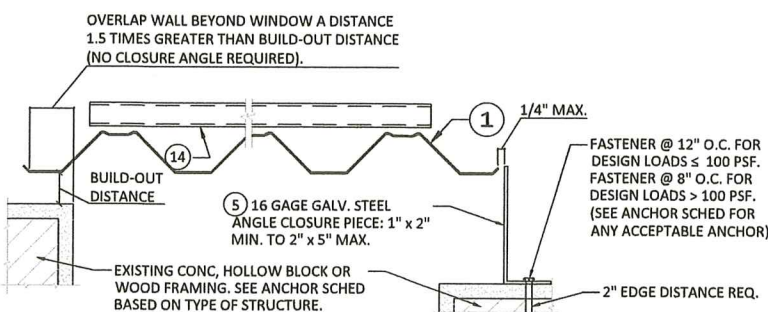
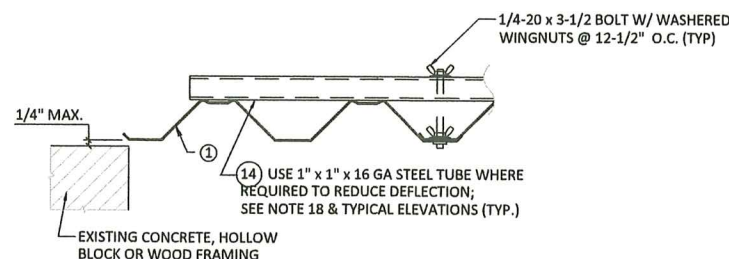
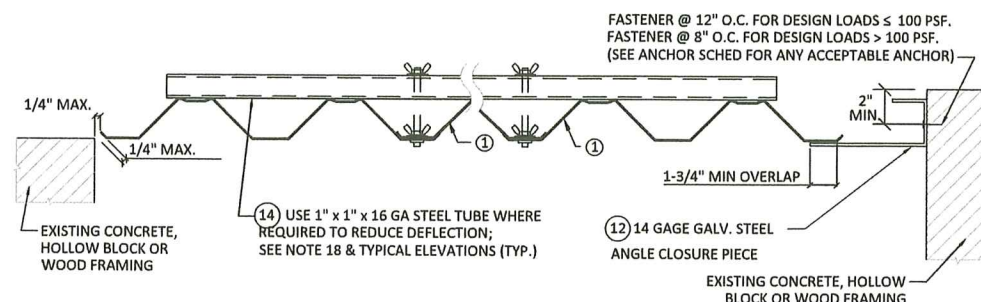
12 CLOSURE  
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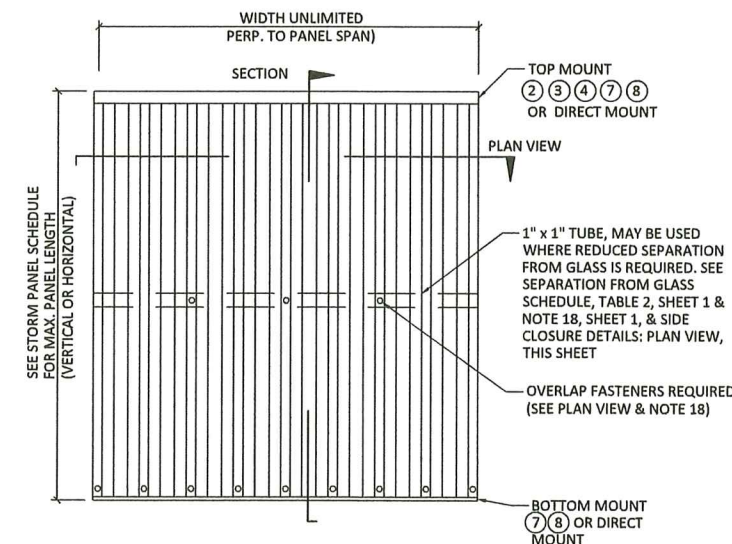
13 KEYHOLE WASHER  
SCALE : HALF SIZE



14 STEEL TUBE  
SCALE : 3" = 1'-0"



SIDE CLOSURE DETAILS: PLAN VIEW  
SCALE : 1-1/2" = 1'-0"

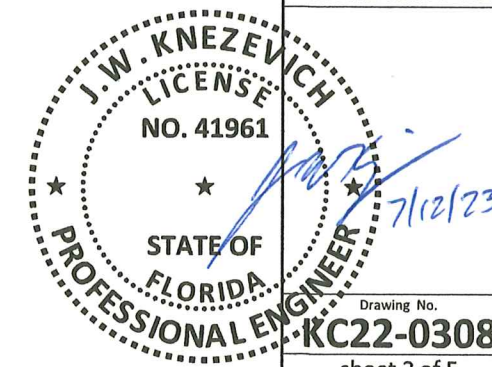


15 TYPICAL ELEVATION

#### NOTES:

- OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED.
- TOP MOUNTS SHALL BE "h" HEADER, "U" HEADER, "F" TRACK, STUDDED ANGLES OR DIRECT MOUNT.
- "F" TRACK & STUDDED ANGLES REQUIRE STUDS @ 6.25" O.C.
- DIRECT MOUNT REQUIRES FASTENERS @ 6.25", BUT SHALL NOT EXCEED ANCHOR SCHEDULE SPACING.

PRODUCT REVISED  
as complying with the Florida  
Building Code 23 - 07 20 - 07  
Acceptance No  
Expiration Date 29 DEC 2027  
By *Heidi A. Miller*  
Miami Data Product Control



**KNEZEVICH CONSULTING**  
KNEZEVICH CONSULTING, LLC  
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T 954.772.6224 \* COA 27988  
www.knezevich.com  
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0.060" ALUMINUM STORM PANEL

Florida Storm Panel Supply

14475 NW 26 Avenue  
Opa Locka, Florida 33054  
P: 305-685-9000



Revisions		Client/Manufacturer:	
No.	Date	By	Description
1	07/12/2023	JWK	IBC 2023 Update

Scale: AS NOTED

Drawn by: JWK

Date: 11/22/2022

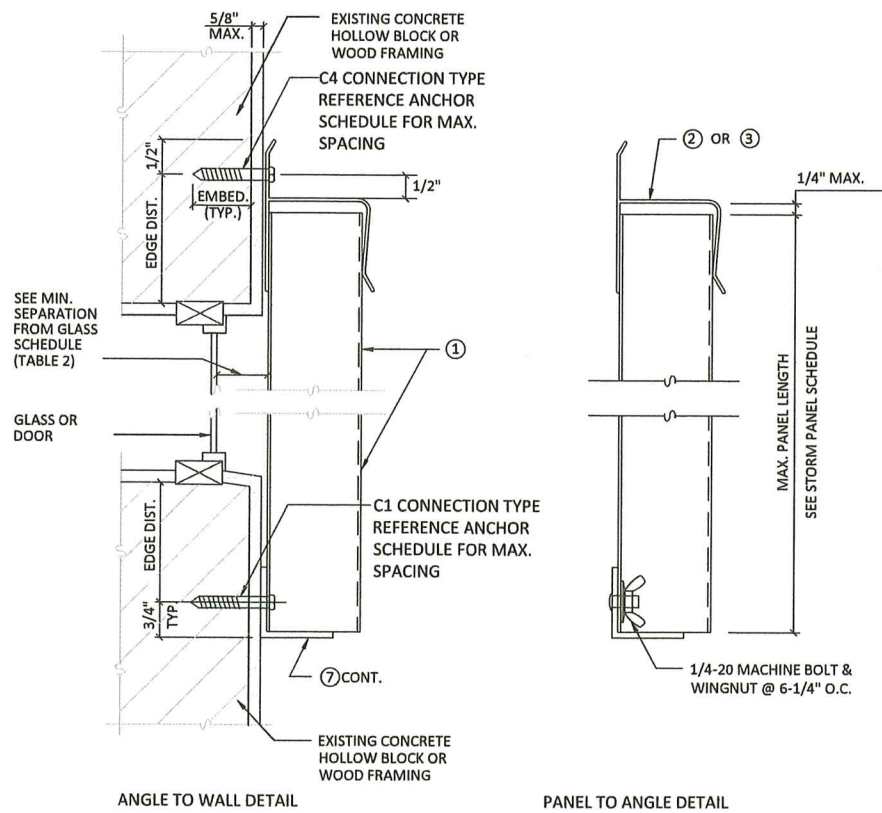
J.W. Knezevich  
Professional Engineer  
FL License No. PE 41961

Drawing No.

KC22-0308

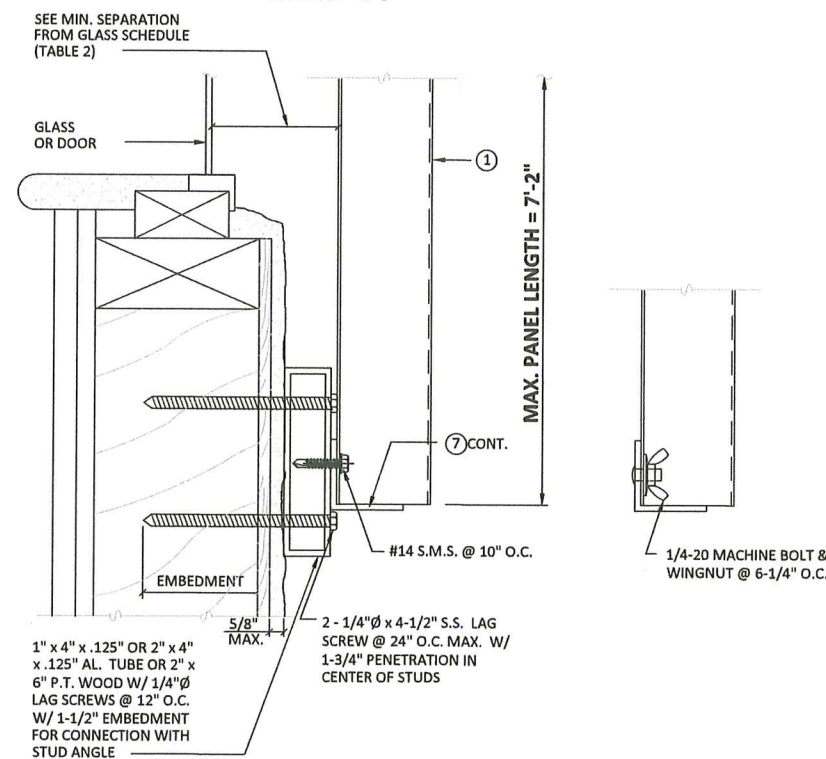
sheet 2 of 5





**A WALL MOUNT SECTION**

SCALE : 3" = 1'-0"

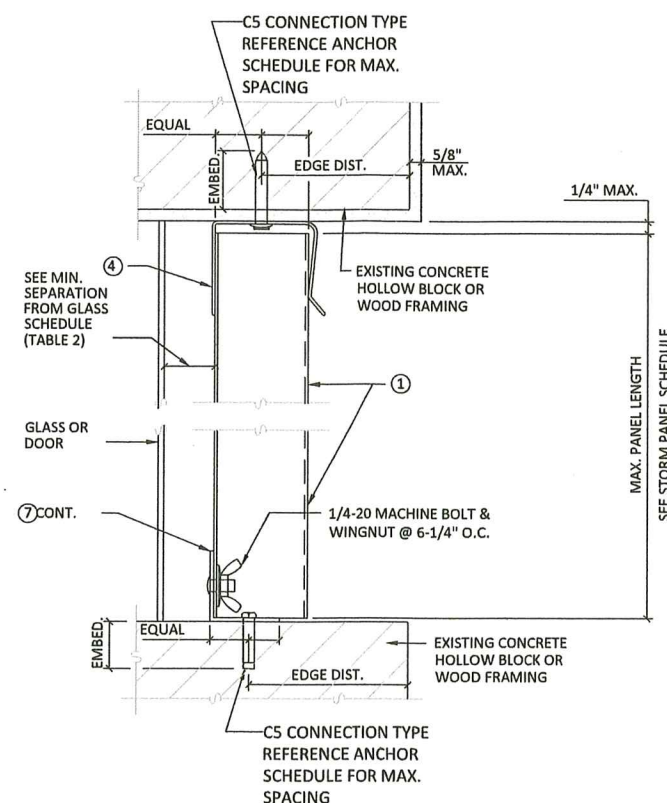


**D WALL MOUNT SECTION (BOTTOM)**

SCALE : 3" = 1'-0"

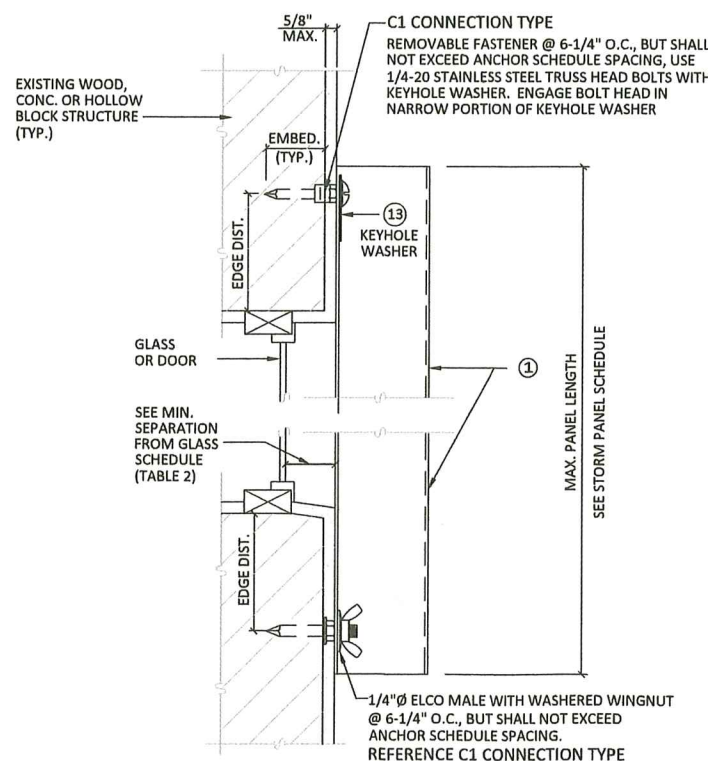
NOTE: USE OF THIS DETAIL IS LIMITED TO  $\pm 72$  PSF.

\* THIS DETAIL MAY BE USED AT TOP OR BOTTOM OF PANELS.



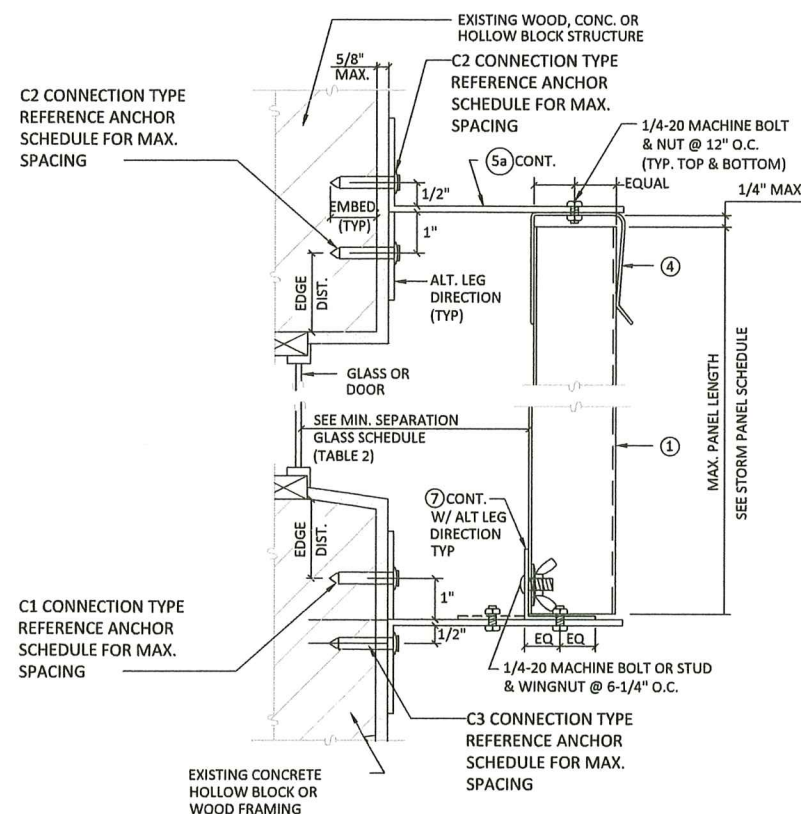
**B CEILING/INSIDE MOUNT SECTION**

SCALE : 3" = 1'-0"



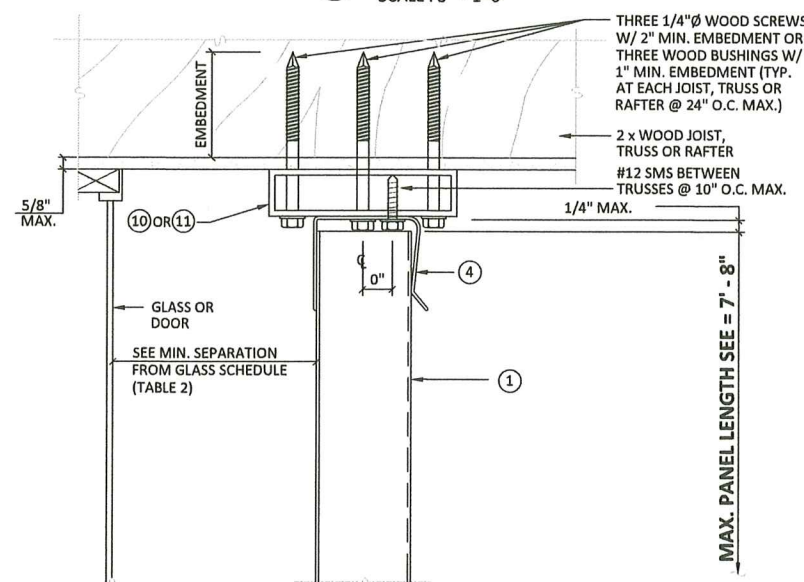
**E WALL MOUNT SECTION (DIRECT MOUNT)**

SCALE : 3" = 1'-0"



**C BUILD-OUT MOUNT SECTION**

SCALE : 3" = 1'-0"

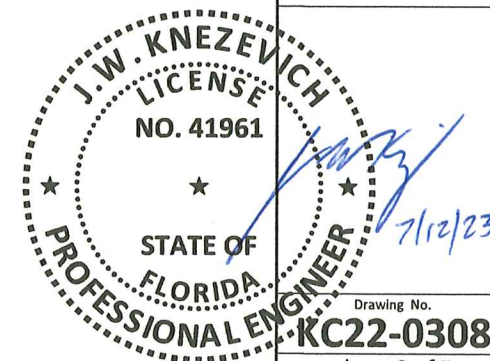


NOTE: USE OF THIS DETAIL IS LIMITED TO  $\pm 60$  PSF.

**F SOFFIT MOUNT DETAIL**

SCALE : 3" = 1'-0"

PRODUCT REVISED  
as complying with the Florida  
Building Code **23-0720.07**  
Acceptance No  
Expiration Date **29 DEC 2027**  
By *H. G. A. Miller*  
Miami Design Product Control



**KNEZEVICH CONSULTING**  
KNEZEVICH CONSULTING, LLC  
1600 S. Federal Hwy., Suite 961  
Pompano Beach, FL 33062  
T 954.772.6224 \* COA 27988  
www.knezevich.com  
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**0.060" ALUMINIUM STORM PANEL**

**Florida Storm Panel Supply**

14475 NW 26 Avenue  
Opa Locka, Florida 33054  
P: 305-685-9000

Revisions		Description	
No.	Date	By	
1	07/12/2023	JWK	IBC 2023 Update

Scale: AS NOTED

Drawn by: JWK

Date: 11/22/2022

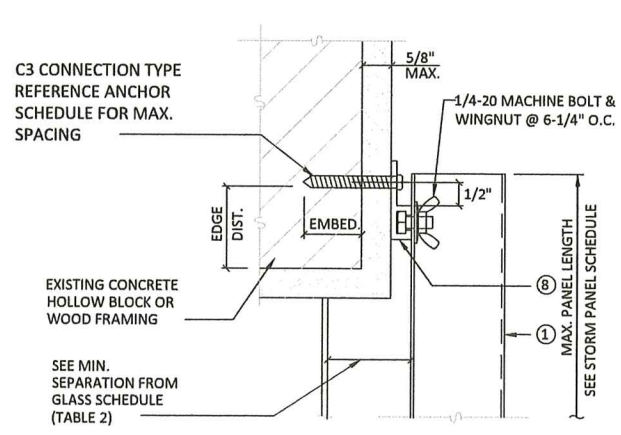
**J.W. Knezevich**  
Professional Engineer  
FL License No. PE 41961

Drawing No.

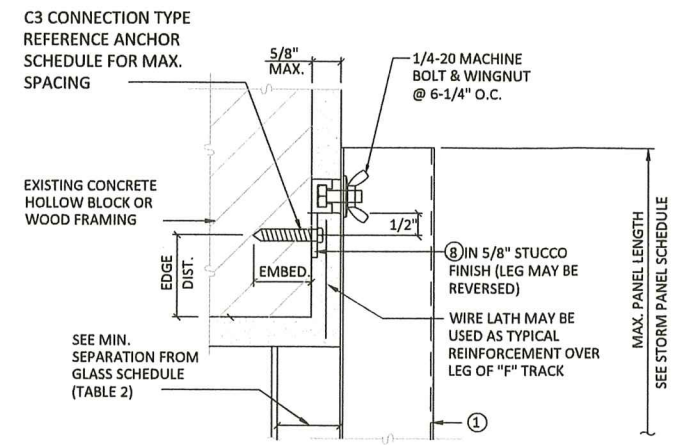
**KC22-0308**

sheet 3 of 5

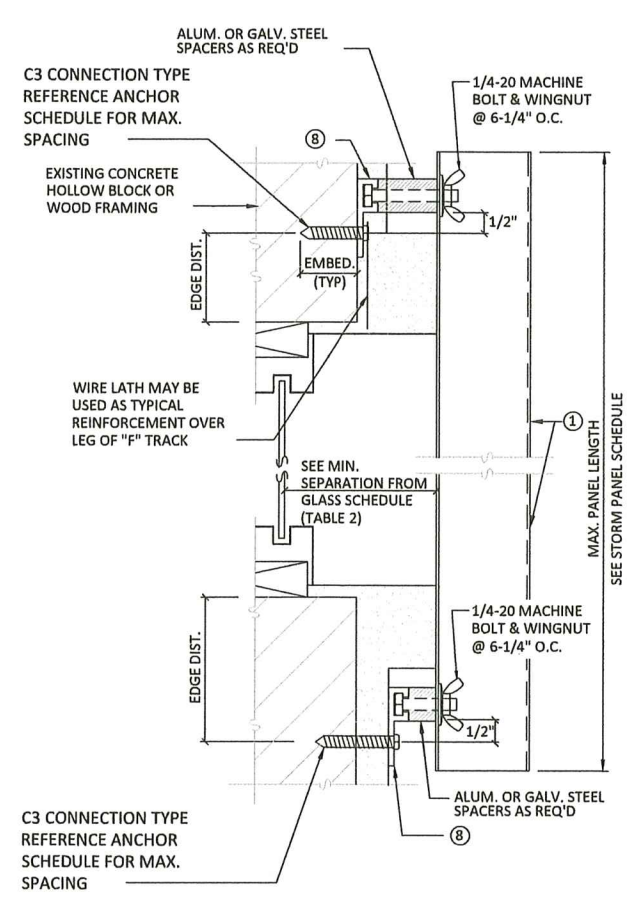




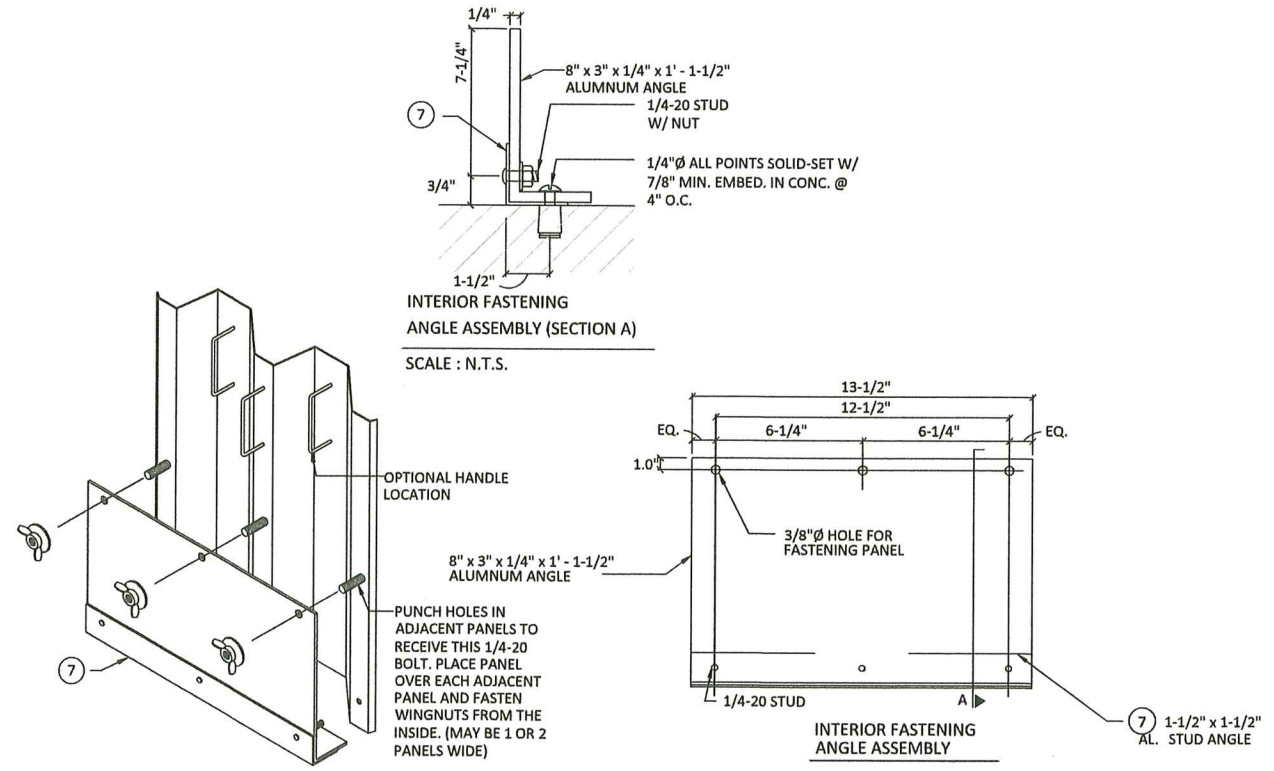
**G** "F" TRACK CONNECTION TO EXISTING STRUCTURE DETAIL  
SCALE : 3" = 1'-0"



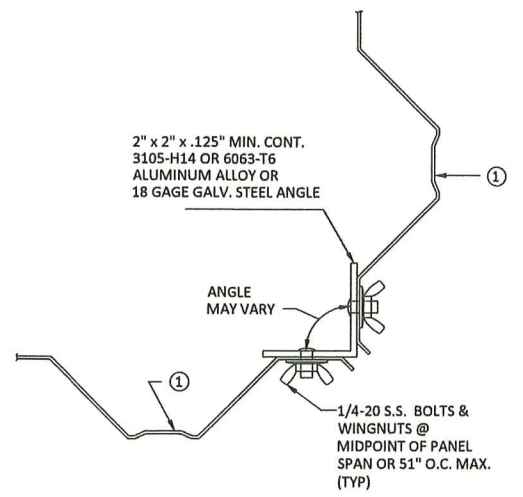
**H** "F" TRACK CONNECTION TO NEW STRUCTURE DETAIL  
SCALE : 3" = 1'-0"



**I** ALT. "F" TRACK CONNECTION TO NEW STRUCTURE DETAIL  
SCALE : 3" = 1'-0"

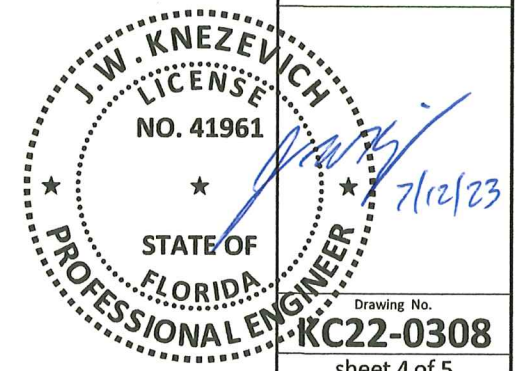


**J** STORM PANEL INTERIOR FASTENING (ISOMETRIC)  
SCALE : 1-1/2" = 1'-0"



**K** ALT. CORNER DETAIL  
SCALE : 3" = 1'-0"

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **23-0720-07**  
Expiration Date **20 DEC 2027**  
By *Heidi A. Mohr*  
Miami Data Product Control



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**0.060" ALUMINIUM STORM PANEL**  
Florida Storm Panel Supply  
14475 NW 26 Avenue  
Opa Locka, Florida 33054  
P: 305-685-9000

Revisions		Client/Manufacturer:	
No.	Date	By	Description
1	07/12/2023	JWK	IBC 2023 Update

Scale: AS NOTED  
Drawn by: JWK  
Date: 11/22/2022  
J.W. Knezevich  
Professional Engineer  
FL License No. PE 41961

Drawing No. **KC22-0308**  
sheet 4 of 5



