MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Nor-Lake Incorporated
891 Country Road U
Hudson, WI 54016

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Walk-In Coolers and Freezers

APPROVAL DOCUMENT: Drawing No. KC23-0601, titled "Walk-In Cooler/Freezer", sheets 1 through 9 of 9, prepared by Knezevich Consulting, LLC, dated July 01, 2023, revision #0 dated July 01, 2023, signed and sealed by J. W. Knezevich, P.E., on August 16, 2023, 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 unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", 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 #23-0328.01** and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, E-5, E-6, E-7, E-8 & E-9 as well as approval document mentioned above.
The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
10/05/2023

NOA No. 23-0823.06
Expiration Date: 05/10/2028
Approval Date: 10/05/2023

Nor-Lake Incorporated

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 00-1212.01

A. DRAWINGS

1. *Drawing No. 00-094, titled "Walk-in Cooler/Freezer", prepared by Knezevich & Associates, Inc., dated December 7, 2000, last revision #3 dated April 19, 2001, sheets 1 through 5 of 5, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS

1. *Test report on 24 Hour Live Load Test, Large Missile Impact Test, Cyclic Load Test and Uniform Static air Pressure Test, Axial Load Test, and Racking load Test on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by Construction Testing Corporation, Report No. 00-027, dated November 6, 2000, signed and sealed by Yamil Kuri, P.E.*

C. CALCULATIONS

1. *Calculation titled "Walk-in Cooler / Freezer", dated 12/07/2000, pages 1 through 27 of 27, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*
2. *Calculation titled "Walk-in Cooler / Freezer", dated 03/13/2001, 3 pages, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Mill Certified Test Report issued by Thyssen Krupp Stahl, dated 11/01/2000, with the Chemical analysis and Mechanical Properties for 27 gauge Steel conforming to ASTM A-875.*
2. *Mill Certified Test Report issued by Viking Materials, Inc., dated 03/21/2000, with the Chemical composition and Mechanical Properties for 26 gauge Steel Regular Spangle.*
3. *Mill Certified Test Report issued by Scottsboro, dated 01/04/00, with the Chemical composition and Mechanical Properties for 0.032" thick 3003-H14 Aluminum Alloy.*
4. *Tensile Test Report No. CTL #1106F, prepared by Certified Testing Laboratories, dated 11/08/2000, signed and sealed by Ramesh Patel, P.E.*
5. *Tensile Test Report No. CTL #1107F, prepared by Certified Testing Laboratories, dated 11/08/2000, signed and sealed by Ramesh Patel, P.E.*
6. *Report #R8058, by UL, dated 07/25/97, for Flame Spread Index and Smoke Developed Index.*
7. *Report #R8058, by UL, dated 03/03/98, for Flame Spread Index and Smoke Developed Index.*

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0826.04

A. DRAWINGS

1. Drawing No. 00-094, titled " Walk-In Cooler/Freezer ", sheets 1 through 5 of 5, prepared by Knezevich & Associates, Inc., dated December 07, 2000, last revision #4 dated July 10, 2002 signed and sealed by V. J. Knezevich, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Design Calculations and structural analysis, prepared by Knezevich & Associates, Inc., pages 1 through 5 of 5, dated August 09, 2002, signed and sealed by V. J. Knezevich, P.E.

D. MATERIAL CERTIFICATIONS

1. None.

E. STATEMENTS

1. Statement letter of conformance, dated August 09, 2002, *prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0926.07

A. DRAWINGS

1. Drawing No. 05-387, titled " Walk-In Cooler/Freezer ", sheets 1 through 5 of 5, prepared by Thornton-Tomasetti Group, dated September 22, 2005, last revision #1 dated September 22, 2005, signed and sealed by J. W. Knezevich, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Design Calculations and structural analysis, prepared by Thornton-Tomasetti group, pages 1 through 13 of 13, dated September 22, 2005, signed and sealed by John W. Knezevich, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0125.02

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #08-0602.11

A. DRAWINGS

1. Drawing No. 08-107, titled " Walk-In Cooler/Freezer ", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated May 12, 2008, signed and sealed by J. W. Knezevich, P.E., on May 12,2008.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0425.02

A. DRAWINGS

1. Drawing No. 11-NOR-02, titled " Walk-In Cooler/Freezer ", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated March 21, 2011, signed and sealed by J. W. Knezevich, P.E., on April 20,2011.

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B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building and Neighborhood Compliance department.

E. MATERIAL CERTIFICATIONS

1. None.

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #12-0425.01

A. DRAWINGS

1. Drawing No. 11-NOR-02, titled " Walk-In Cooler/Freezer ", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated March 21, 2011, last revision #1 dated May 09, 2012, signed and sealed by J. W. Knezevich, P.E., on May 14, 2012.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. None.

8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 13-0514.19

A. DRAWINGS

1. Drawing No. 11-NOR-02, titled " Walk-In Cooler/Freezer ", sheets 1 through 7 of 7, prepared by Knezevich Consulting, LLC, dated March 21, 2011, last revision #3 dated October 25, 2013, signed and sealed by J. W. Knezevich, P.E.

B. TESTS

1. Test report on 24 Hour Live Load Test, Large Missile Impact Test, Cyclic Load Test and Uniform Static air Pressure Test, Axial Load Test, and Racking load Test on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers

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/ Freezers, prepared by American Testing Lab of South Florida, Report ATLSF 0126.01-12, dated July 16, 2013, signed and sealed by Henry Hattem, P.E.

C. CALCULATIONS

1. *Calculation titled "Walk-in Cooler / Freezer", dated 08/09/2013, pages 1 through 50 of 50, and A1-A5, prepared by Knezevich Consulting, Inc., signed and sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Die Drawings.*

9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 14-1001.06

A. DRAWINGS

1. *Drawing No. 11-NOR-02, titled "Walk-In Cooler/Freezer", sheets 1 through 7 of 7, prepared by Knezevich Consulting, LLC, dated March 21, 2011, last revision #4 dated September 08, 2014, signed and sealed by J. W. Knezevich, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Load Test and Uniform Static air Pressure Test, on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by American Testing Lab of South Florida, Report ATLSF 0505.01-14, dated July 25, 2014, signed and sealed by Stephen W. Warter, P.E.*

C. CALCULATIONS

1. *Calculation titled "Walk-in Cooler / Freezer", dated 09/15/2014, pages 1 through 9, prepared by Knezevich Consulting, Inc., signed and sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Tensile Test Report No. QCM 14EM-436, prepared by QC Metallurgical, Inc., dated 05/20/2014, signed and sealed by Frank E. Grate Jr., P.E.*

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

10. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 15-0618.15

A. DRAWINGS

1. *Drawing No. KC15-0412, titled " Walk-In Cooler/Freezer ", sheets 1 through 8 of 8, prepared by Knezevich Consulting, LLC, dated June 03, 2015, signed and sealed by J. W. Knezevich, P.E., on June 12, 2015.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculation titled "Walk-in Cooler/Freezer", dated 06/11/15, pages 1 to 8, issued by Knezevich Consulting, signed & sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

11. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 18-0328.04

A. DRAWINGS

1. *Drawing # KC17-1012, titled "Walk-In Cooler/Freezer", sheets 1 to 8 of 8, issued by Knezevich Consulting, dated 03/06/18, signed & sealed by J. W. Knezevich, P.E.*

B. TESTS

1. *Test report on Transverse load Testing of Structural Insulated Panels Walk-in Coolers/Freezers, prepared by PFS-TECO, Report No. 18-051, dated 03/08/18, signed and sealed by James A. Rothman, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Conformance letter to the FBC, 2017 Edition, dated 03/26/18, issued by Knezevich Consulting, LLC, signed & sealed by J. W. Knezevich, P.E.*

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12. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 18-1120.07

A. DRAWINGS

1. *Drawing No. KC18-1030, titled " Walk-In Cooler/Freezer ", sheets 1 through 8 of 8, prepared by Knezevich Consulting, LLC, dated October 30, 2018, signed and sealed by J. W. Knezevich, P.E., on November 06, 2018.*

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. STATEMENTS

1. *Conformance letter to the FBC, 2017 Edition, dated 11/07/18, issued by Knezevich Consulting, LLC, signed & sealed by J. W. Knezevich, P.E. and Bill of sales.*

13. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 19-0911.03

A. DRAWINGS

1. *Drawing No. KC18-1030, titled " Walk-In Cooler/Freezer ", sheets 1 through 8 of 8, prepared by Knezevich Consulting, LLC, dated October 30, 2018, revision #1 dated 07/23/2019, signed and sealed by J. W. Knezevich, P.E., on August 19, 2019.*

B. TESTS

1. *Test report per TAS 202-94 on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers, issued by ATL of South Florida, Report ATLSF 0607.01-19, dated 06/21/19, signed & sealed by Stephen W. Warter, P.E.*

C. CALCULATIONS

1. *Calculation titled "Foam Equivalency Evaluation", dated 08/19/19, 11 pages, issued by Knezevich Consulting, signed & sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Conformance letter to the FBC, 2017 Edition, dated 08/19/19, issued by Knezevich Consulting, LLC, signed & sealed by J. W. Knezevich, P.E.*

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

14. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 20-0713.03

A. DRAWINGS

1. *Drawing No. KC20-0610, titled " Walk-In Cooler/Freezer ", sheets 1 through 8 of 8, prepared by Knezevich Consulting, LLC, dated June 26, 2020, revision #0 dated June 26, 2020, signed and sealed by J. W. Knezevich, P.E., on July 02, 2020.*

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. STATEMENTS

1. *Conformance letter to the FBC, 2017 Edition, dated 06/30/20, issued by Knezevich Consulting, LLC, signed & sealed by J. W. Knezevich, P.E.*
2. *Sales of Assets Agreement.*

15. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 20-1217.02

A. DRAWINGS

1. *Drawing No. KC20-0610, titled "Walk-In Cooler/Freezer", sheets 1 through 8 of 8, prepared by Knezevich Consulting, LLC, dated June 26, 2020, revision #2 dated March 22, 2021, signed and sealed by J. W. Knezevich, P.E., on March 22, 2021.*

B. TESTS

1. *Test report per TAS 202-94 on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers, issued by ATL of South Florida, Report ATLSF 0914.01-20, dated 09/30/20, signed & sealed by Stephen W. Warter, P.E.*

C. CALCULATIONS

1. *Calculation titled "Foam Equivalency Evaluation", dated 12/03/20, 7 pages, issued by Knezevich Consulting, signed & sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Conformance letter to the FBC, 2020 Edition, dated 03/22/21, issued by Knezevich Consulting, LLC, signed & sealed by J. W. Knezevich, P.E.*

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16. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 23-0328.01

A. DRAWINGS

1. None.

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. STATEMENTS

1. Conformance letter to the FBC, 2020 Edition, dated 02/23/23, issued by Knezevich Consulting, LLC, signed & sealed by J. W. Knezevich, P.E.

16. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. KC23-0601, titled "Walk-In Cooler/Freezer", sheets 1 through 9 of 9, prepared by Knezevich Consulting, LLC, dated July 01, 2023, revision #0 dated July 01, 2023, signed and sealed by J. W. Knezevich, P.E., on August 16, 2023.

B. TESTS

1. None.

C. CALCULATIONS

1. Calculation titled "FBC 2023 update Camlock, ramp, Kickplate & Rainhood Calculations", dated 07/10/2023, 12 pages, issued by Knezevich Consulting, signed & sealed by John W. Knezevich, P.E., on 08/16/2023.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Conformance letter to the FBC, 2020 Edition and 2023 Edition, dated 07/10/23, issued by Knezevich Consulting, LLC, signed & sealed by J. W. Knezevich, P.E., on 08/16/23.

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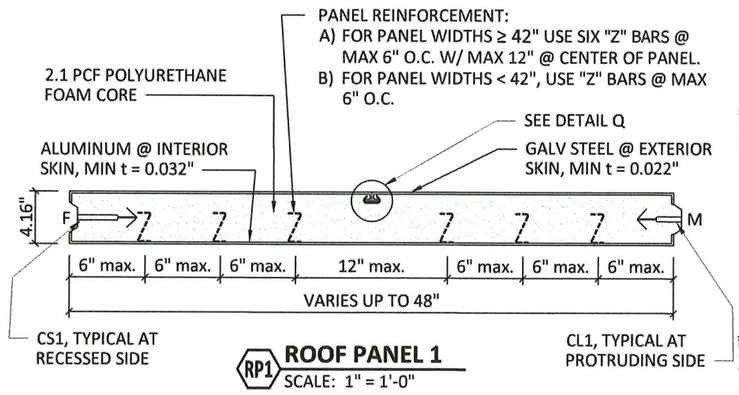
GENERAL NOTES:

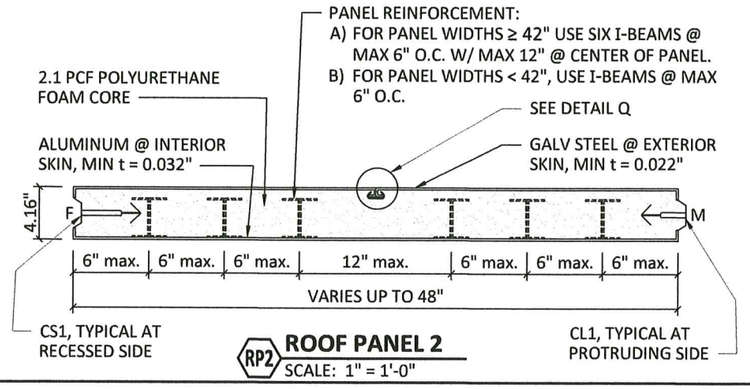
1. These Product Evaluation Documents (PEDs) represent a Walk-In Cooler/Freezer system designed and tested with the provisions set forth for the issuance of a Notice of Acceptance (NOA) by Miami-Dade Department of Regulatory and Economic Resources, Product Control Section. This system is designed and tested in accordance with the Florida Building Code, Building 7th Edition (2020) & 8th Edition (2023), High Velocity Hurricane Zone provisions.
2. For areas outside of the HVHZ, site specific engineering is required to verify the site specific design wind loads and panel testing comply with the testing requirements of FBC Section 1709.3.
3. Design Loads
   A. Roof:
      1) Live Load — 30.0 psf
      2) Dead Load — Panel Type 1 — 3.5 psf; Panel Type 2 — 5.3 psf
      3) Maximum weight of mechanical equipment is 330 lbs. per condensing unit. Space units at least 4'-0" o.c.
   B. Walls:
      1) Dead Load — Panel Type 1 — 1.6 psf; Panel Type 2 — 2.1 psf
   C. Floor:
      1) Live Load — Insulated Floor — 250 psf; Floorless — Slab rating; Limit LL to rating of concrete slab
      2) Dead Load — Floor Panel — 5.0 psf
   D. Wind loads shall be determined in accordance with the Authority Having Jurisdiction and the governing code provisions at the time of permit based on the site specific conditions. See Tables 2 & 3 on Sheet 3 for allowable stress design (ASD) wind loads and forces used in the design outlined within these documents. These ASD loads and forces are based on wind load resistance testing. Wind loads determined in accordance with FBC Section 1620 shall be multiplied by the ASD load factor of 0.6 for comparison with allowable loads and forces on these documents.
4. These PEDs address the structural and material requirements for compliance with the structural portions of the noted codes. Architectural, mechanical, electrical and waterproofing requirements are not part of the evaluation. Specific use of the evaluation requires the Architect or Engineer of Record to address the architectural, mechanical, electrical, and waterproofing requirements for the installation.
5. These PEDs are generic and do not include information for site specific application of this Walk-in Cooler/Freezer system.
6. Any modification or additions to these PEDs will void the documents.
7. These PEDs shall not be applied by the Contractor on a specific site without the involvement of an Architect or Engineer of Record (A/E of Record). The A/E of Record shall be responsible for compliance with the code requirements of a specific installation including but not limited to the following:
   A. Verify the site specific wind load requirements are within the criteria used to develop these PEDs and the unit is configured in compliance with the structural limitations identified in Tables 2 and 3.
   B. Verify the foundation design is adequate to resist the superimposed loads identified in Table 1.
   C. Verify the existing building is adequate to resist the superimposed loads identified in Table 1.
   D. Weather protection, architectural, mechanical, and electrical requirements are outside the scope of these PEDs. Determine and/or provide for compliance with the requirements of the Authority Having Jurisdiction.
8. When the site conditions deviate from these PEDs, the Building Official shall require that a one-time site specific approval be applied for and secured from the Miami-Dade County DRER Product Control Section.
9. All aluminum materials shall comply with the alloys as noted on the drawings.
10. All bolts shall be 304 stainless steel complying with ASTM F593A Condition A with a min tensile strength of 75 ksi u.o.n.
11. All screws shall be electro-galvanized steel or 300 series stainless steel with a min. tensile strength of 75 ksi u.o.n. Stainless steel screws shall be used when exposed to the weather.
12. All concrete anchors shall be as specified on the drawings. Embedment lengths noted on the drawings shall not include finish material. Anchors are approved for use in uncracked concrete, u.o.n., with a min. f'c = 3,000 psi.
13. An allowable stress increase is not used in the design of the cooler/freezer unit nor its attachments.
14. Dissimilar metals in contact with aluminum shall be protected in accordance with the Aluminum Design Manual, 2015, Chapter M.7.

POLYURETHANE FOAM SANDWICH PANEL SPECIFICATIONS

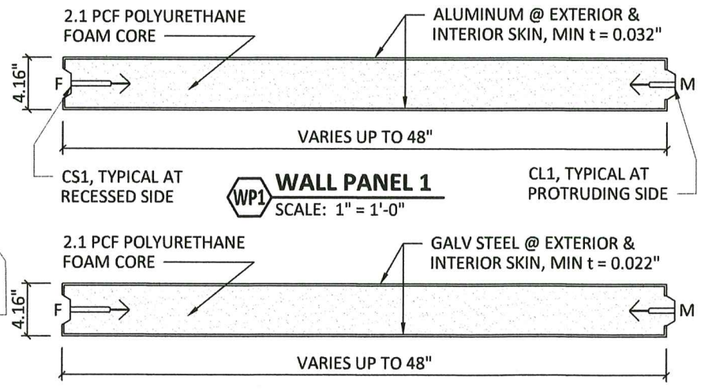
1. Wall & roof composite sandwich panels are comprised of aluminum or steel facings with foamed-in-place polyurethane cores. Thickness and material of facings shall be as shown.
2. Composite panels are approved for use in walk-in coolers where the aggregate floor area does not exceed 400 square feet. For specific requirements of foam plastics in walk-in coolers, see FBC Section 2603.4.1.3.
3. Aluminum facings shall be 3003-H14 alloy for interior and exterior use.
4. Wall panel steel facings shall comply with ASTM A875 CQ with a min. Fy = 31.0 ksi, min. thickness of 0.022" and a GF45 coating.
5. Roof panel steel facings on the top side of panel shall comply with ASTM A653 CS with a min. Fy = 45 ksi, min. thickness of 0.022" and a G90 coating.
6. Steel plates, bent plates, channels and angles shall comply with ASTM A653 CS with a min. Fy = 31 ksi and a G90 coating. Thickness as designated.
7. Foam core shall be a two component polyurethane rigid foam with an average density of 2.1 pcf and a minimum sample density of 1.9 pcf manufactured from either one of the following two formulations:
   A) Dow Voracor CD 2101HE (formerly EXP-19-BA0848-24-1) Polyol / Voracor CE108 Isocyanate expanded with HFO-1233zd blowing agent.
   B) BASF Elastopor P 5140R Resin / Elastopor P 1001U Isocyanate expanded with HFO blowing agent.
   C) Dow Voracor CR1140-HE Polyol / CE108 Isocyanate expanded with HFC-245a blowing agent.
   D) Dow EXP-18-BK7334 Polyol / Voracor CE108 Isocyanate expanded with HFO blowing agent.
8. Polyurethane foam core shall have a flame spread rating of not more than 75 and a smoke-developed rating of not more than 450.
9. Metal facings and camlocks shall be adhered to foam with a spray coating of one of the following adhesives:
   A) 3M Hi-Strength 94 ET clear or red adhesive at a rate of 0.547 grams dry weight per square foot.
   B) 3M Neoprene Contact Adhesive 5, green adhesive at a rate of 0.547 grams dry weight per square foot.
10. Tapping plates within door frame shall be 1/2" HDPE plastic with a min. size of 2" x 2" and a maximum size of 2" larger than the screw pattern. Provide tapping plates at all door hardware and steel floor angle locations.



RP1 **ROOF PANEL 1**
SCALE: 1" = 1'-0"

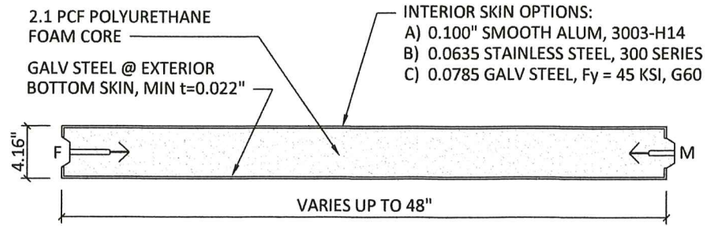


RP2 **ROOF PANEL 2**
SCALE: 1" = 1'-0"

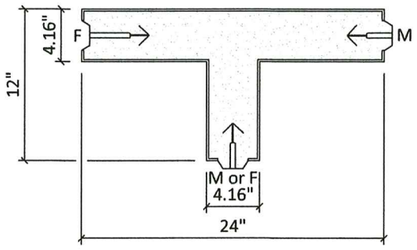


WP1 **WALL PANEL 1**
SCALE: 1" = 1'-0"

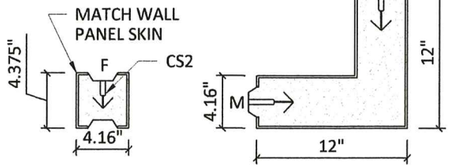
WP2 **WALL PANEL 2**
SCALE: 1" = 1'-0"



FP **FLOOR PANEL**
SCALE: 1" = 1'-0"



WPT **T-WALL PANEL**
SCALE: 1" = 1'-0"



FS **FLOOR SCREED**
SCALE: 1" = 1'-0"

WPC **CORNER WALL PANEL**
SCALE: 1" = 1'-0"

PRODUCT REVISED
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By Miami Dade Product Control

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

J.W. KNEZEVICH LICENSE NO. 41961 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/10/23

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WALK-IN COOLER/FREEZER

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NORLAKE

Revisions

No.	Date	By	Description
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Scale: AS NOTED
Drawn by: JWK
Date: draft: 07/01/23

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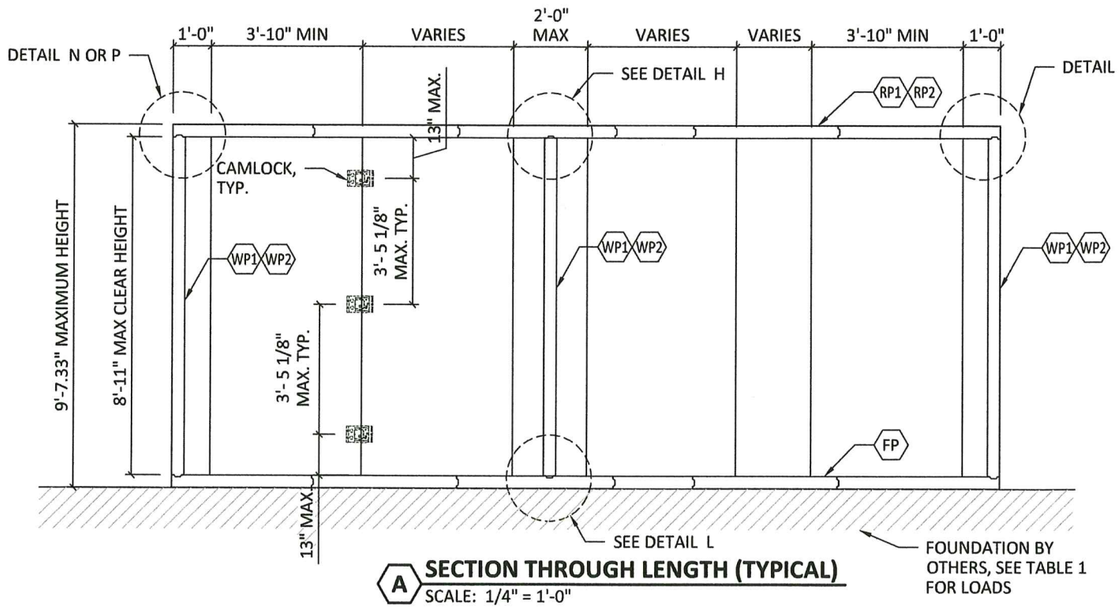
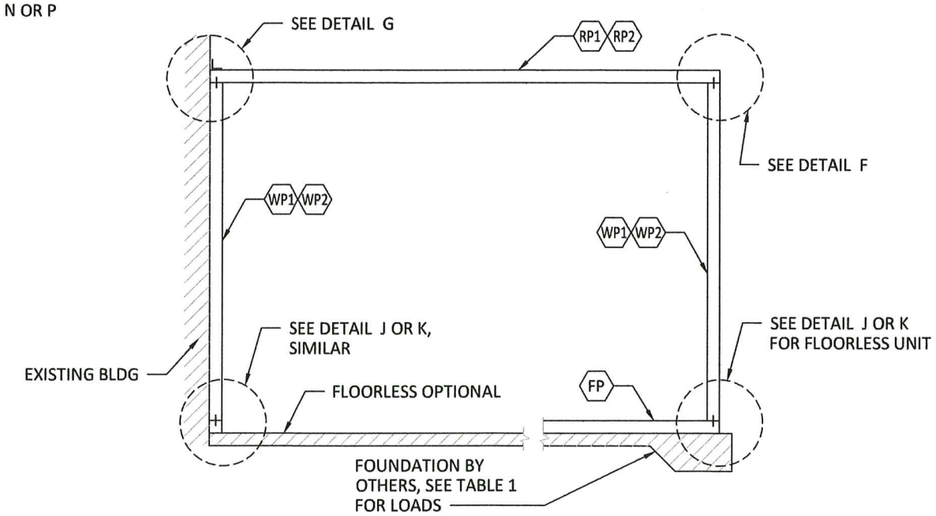
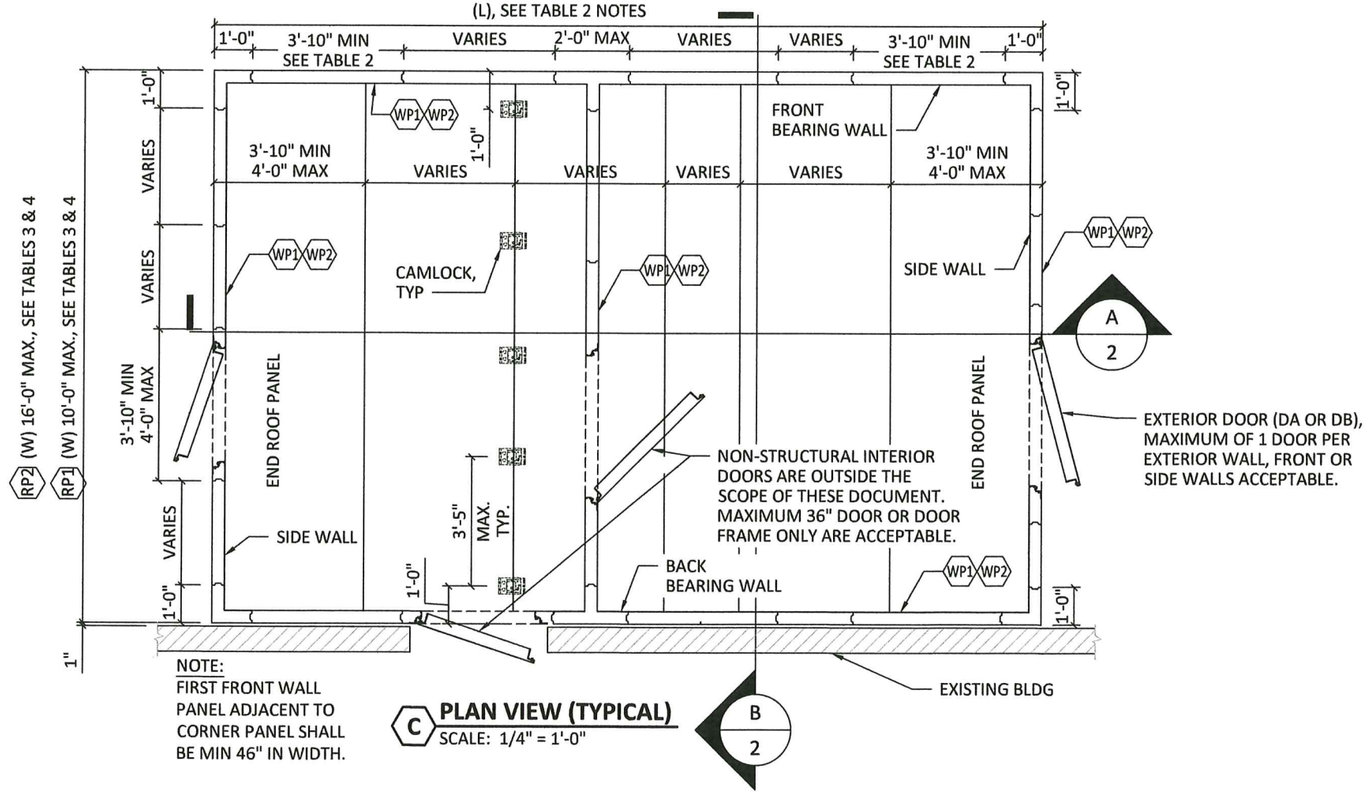
Drawing No.
KC23-0601
sheet 1 of 9



A SECTION THROUGH LENGTH (TYPICAL)
SCALE: 1/4" = 1'-0"



B SECTION THROUGH WIDTH (TYPICAL)
SCALE: 1/4" = 1'-0"



NOTE:
FIRST FRONT WALL PANEL ADJACENT TO CORNER PANEL SHALL BE MIN 46" IN WIDTH.

C PLAN VIEW (TYPICAL)
SCALE: 1/4" = 1'-0"

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TABLE 1

LOADS FOR FOUNDATION DESIGN		
LOAD	NET WIND FORCES (ASD)	
	Roof Panel Maximum Span	
	RP1: 9'-6"	RP2: 14'-7"
P_V	± 310 lbs/ft	± 520 lbs/ft
P_H	± 210 lbs/ft	± 210 lbs/ft
M_W	± 2340 ft-lbs/panel w/ the number of panels req.	

TABLE 1 NOTES:

1. Net wind forces (ASD) represent the reactions from allowable stress wind wind load combinations assuming maximum roof panel spans and maximum wall panel heights.
2. P_V represents the vertical wind reaction.
3. P_H represents the horizontal wind reaction.
4. M_W represents the shearwall base moment for each required shearwall panel.

TABLE 2

MAX. ALLOWABLE (ASD) ROOF PANEL DIAPHRAGM FORCES		
PANEL TYPE	MOMENT (FT-LBS/PANEL)	SHEAR (LBS/PANEL)
RP1 RP2	7,350	960
MAX. ALLOWABLE (ASD) WALL PANEL SHEARWALL FORCES		
PANEL TYPE	MOMENT (FT-LBS/PANEL)	SHEAR (LBS/PANEL)
WP1 WP2	2,340	255

TABLE 2 NOTES:

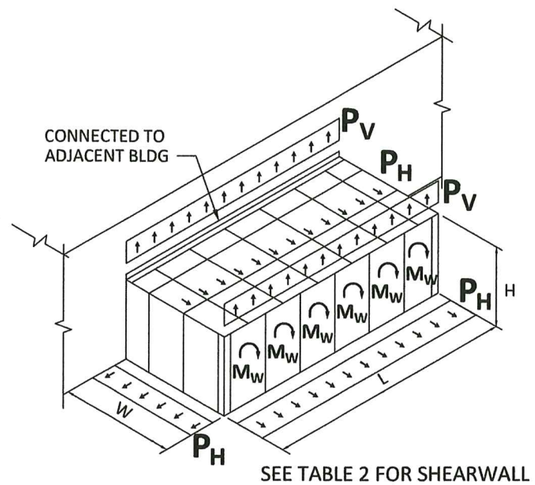
1. A sufficient number of 46" to 48" roof panels shall be provided to maintain the roof diaphragm moment and shear in each panel below the maximum ASD values shown here.
2. A sufficient number of 46" to 48" shearwall panels shall be provided on the front wall to maintain the shearwall moment and shear in each panel below the maximum ASD values shown here.

TABLE 3

PANEL TYPE		MAX. PANEL LENGTH	MAX. ALLOWABLE (ASD) WIND LOAD	
			POS (PSF)	NEG (PSF)
ROOF PANELS	**RP1:** 4" ROOF PANEL	9'-6"	+16.6	-69.6
	RP2: 4" ROOF PANEL	14'-7"	+15.9	-76.3
WALL PANELS	**WP1:** 4" WALL PANEL	8'-10.25"	+39.1	-46.2
	WP2: 4" WALL PANEL	8'-10.25"	+39.1	-46.2

TABLE 3 NOTES:

1. Allowable wind loads shown represent the maximum ASD component uniform wind loads for each panel span.
2. To determine compliance, USD site specific wind loads determined in accordance with General Notes 3D and 7A shall be multiplied by the Load Factor 0.6 when comparing to these values.
3. Fpr mpm-uniform loads, moments and shears from site specific wind loads shall be less than those resulting from the loads and spans shown here.
4. Allowable wind loads are based on a factor of safety of 1.5 for wall panels and 2.0 for roof panels with a minimum recovery of 80% in accordance with TAS 202 and the HVHZ provision of the FBC.



SEE TABLE 2 FOR SHEARWALL & DIAPHRAGM LIMITATIONS

ISOMETRIC WITH SUPERIMPOSED WIND LOADS

D N.T.S.

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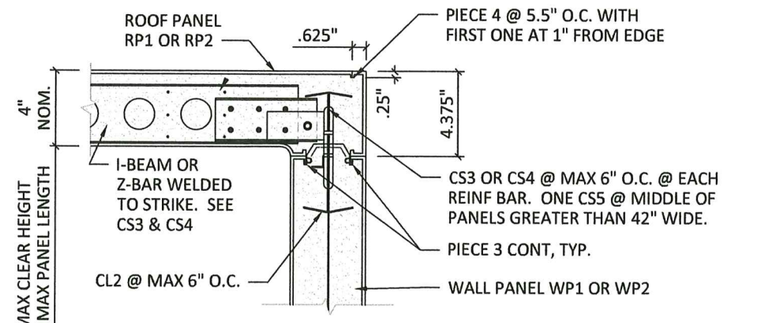
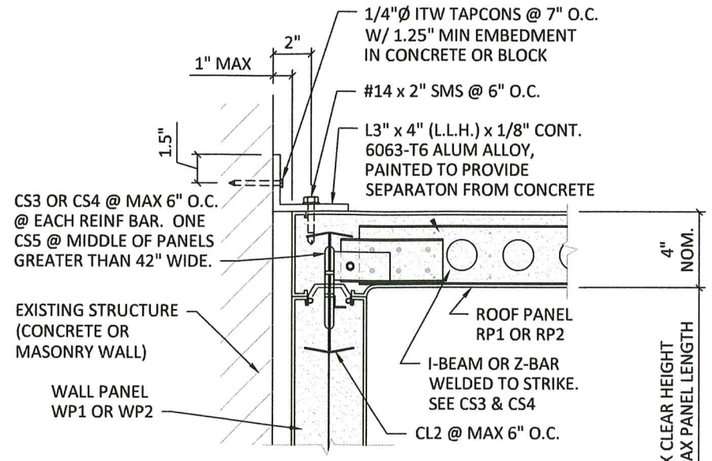
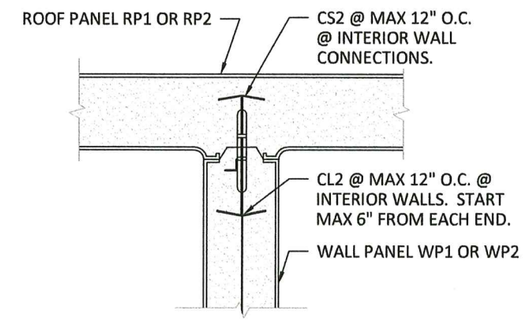


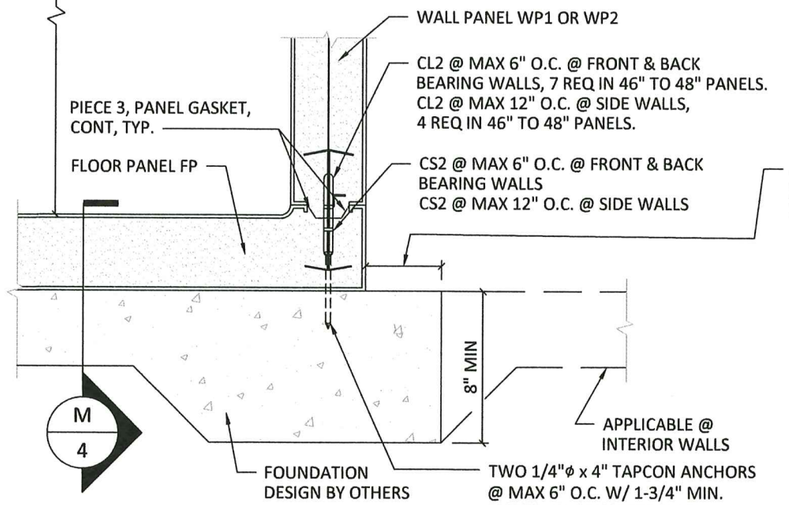
F **FRONT BEARING WALL TO ROOF PANEL**
1.5" = 1'-0"



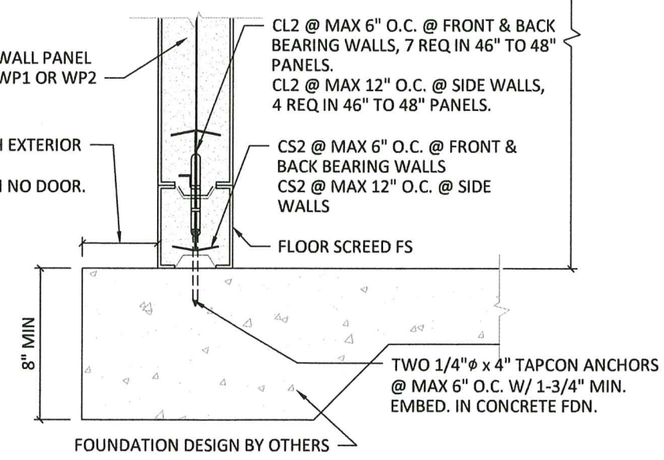
G **BACK BEARING WALL TO EXISTING BUILDING**
1.5" = 1'-0"



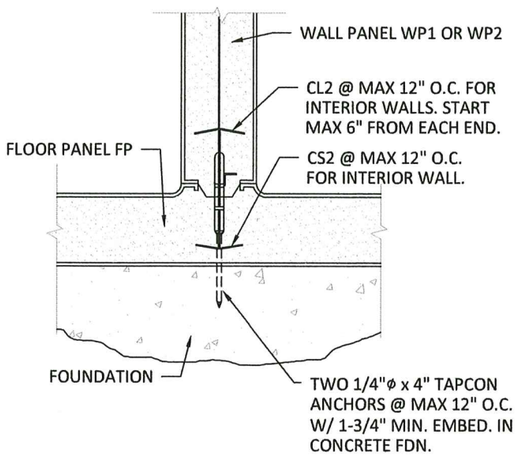
H **INTERIOR WALL TO CEILING**
1.5" = 1'-0"



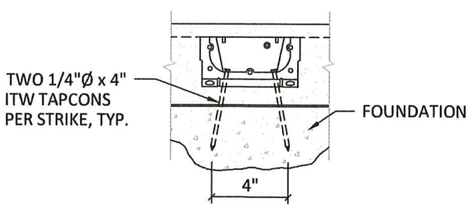
J **WALL TO FOUNDATION WITH FLOOR**
1.5" = 1'-0"



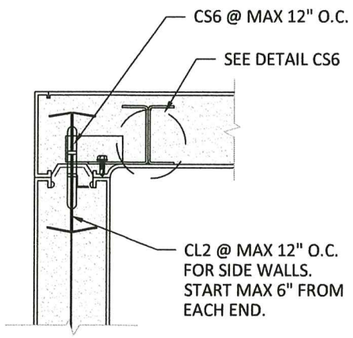
K **WALL TO FOUNDATION WITH FLOOR SCREED**
1.5" = 1'-0"



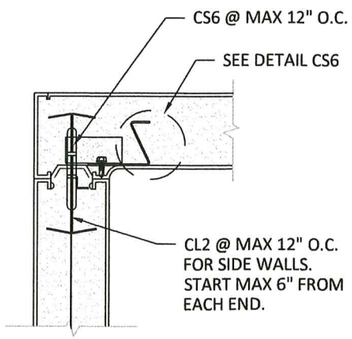
L **INTERIOR WALL TO FOUNDATION WITH FLOOR**
1.5" = 1'-0"



M **FLOOR OR SCREED TO CONCRETE**
1.5" = 1'-0"



N **SIDE WALL TO ROOF PANEL WITH I-BEAM**
1.5" = 1'-0"



P **SIDE WALL TO ROOF PANEL WITH Z-BAR**
1.5" = 1'-0"

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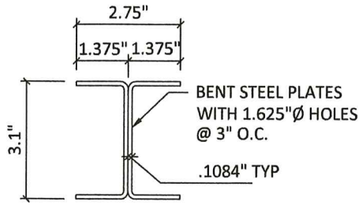
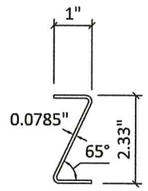
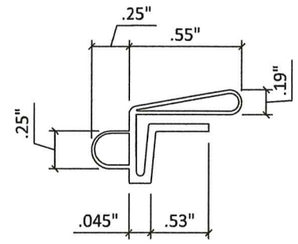
Drawing No.
KC23-0601
sheet 4 of 9



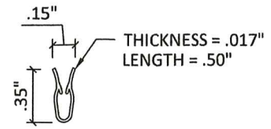
1 I-BEAM (STEEL)
3" = 1'-0" UNGALVANIZED



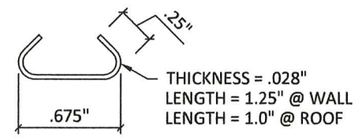
2 Z-BAR (STEEL)
3" = 1'-0" UNGALVANIZED



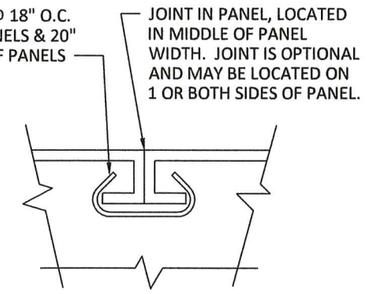
3 PANEL GASKET
FULL SCALE FLEXIBLE PVC
PLACE CONTINUOUS AT
MALE END OF PANEL JOINTS



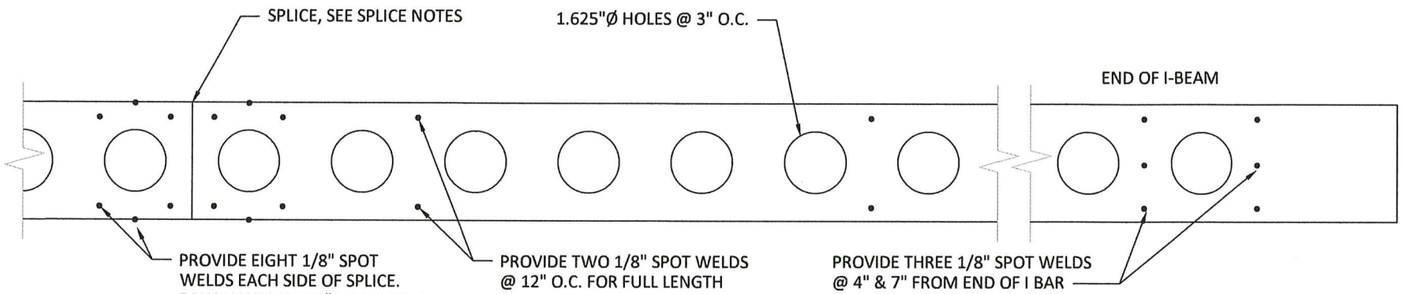
4 STRAIGHT EDGE SKIN CLIP
FULL SCALE UNGALVANIZED STEEL



5 PANEL SKIN CLIP
FULL SCALE UNGALVANIZED STEEL



6 PANEL SKIN CLIP DETAIL
FULL SCALE



7 I-BEAM ELEVATION DETAIL
3" = 1'-0"

SPLICE NOTES:

1. I-BEAM CHANNELS MAY BE SPLICE AS FOLLOWS:
   A. ONE CHANNEL MAY BE SPLICED AT 1/4 POINT (± 6") OF THE FULL PANEL LENGTH.
   B. SECOND CHANNEL MAY BE SPLICE AT 3/4 POINT (± 6") OF THE FULL PANEL LENGTH

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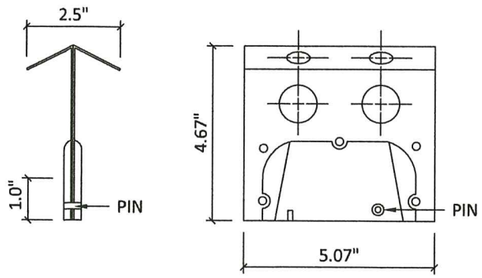
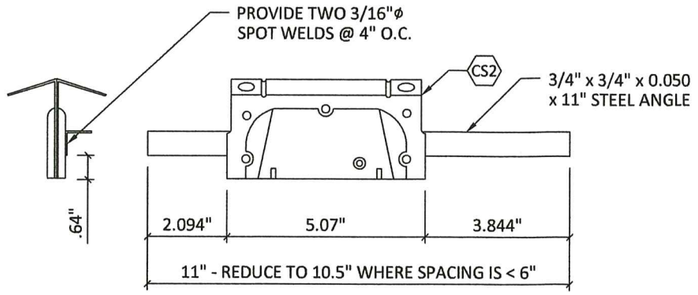
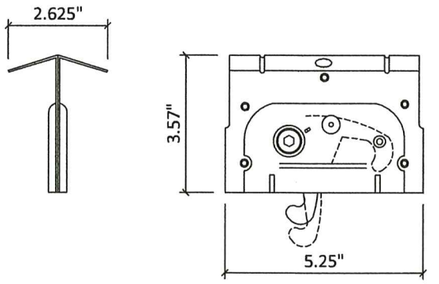


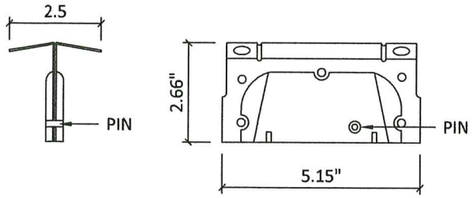
CS1 CAMLOCK - WIDE MOUTH DEEP STRIKE
SCALE: 3" = 1'-0"



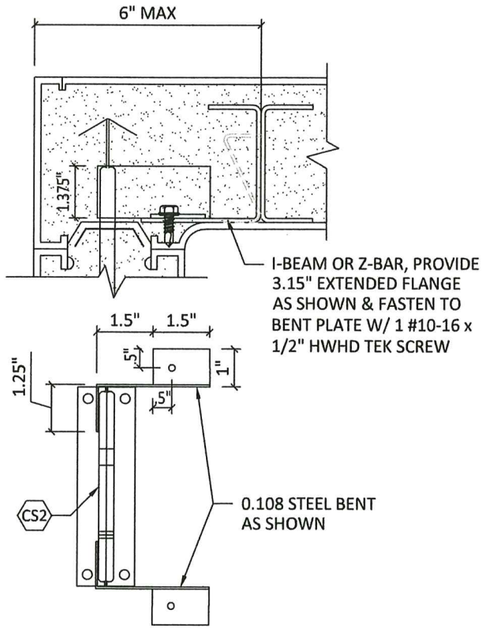
CS2 WITH ANGLE
SCALE: 3" = 1'-0"



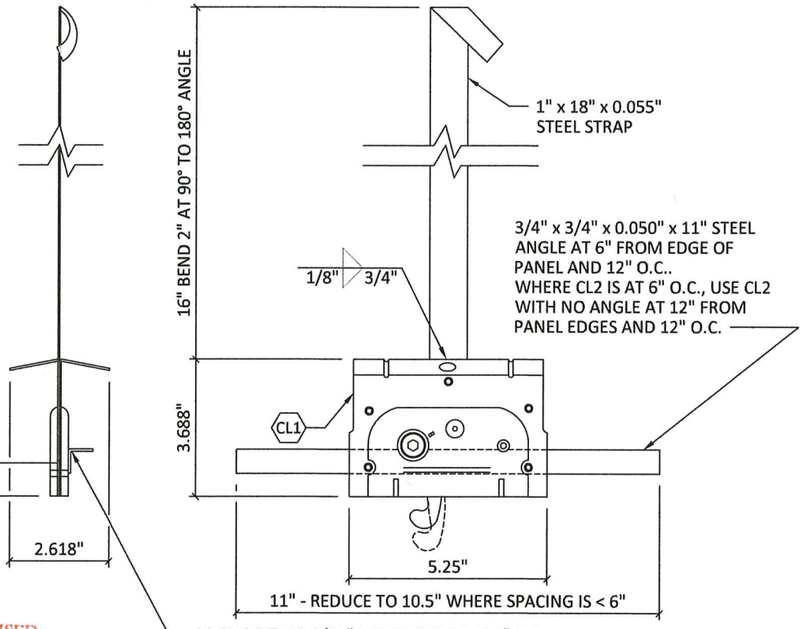
CL1 CAMLOCK - LOCKING POINT
SCALE: 3" = 1'-0"



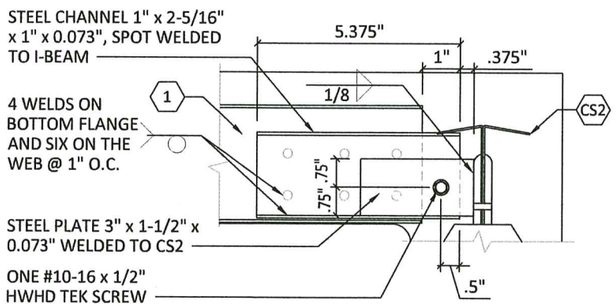
CS2 CAMLOCK - WIDE MOUTH STRIKE
SCALE: 3" = 1'-0"



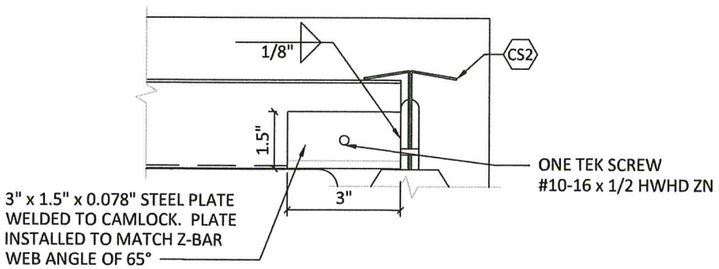
CS6 CS2 WITH BENT PLATE
SCALE: 3" = 1'-0"



CL2 CL1 WITH STRAP & ANGLE
SCALE: 3" = 1'-0"



CS3 CS2 TO I-BEAM
SCALE: 3" = 1'-0"



CS4 CS2 TO Z-BAR
SCALE: 3" = 1'-0"

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CAMLOCK NOTES:

1. Camlocks and attached straps shall be sprayed with adhesive.
2. CS1 camlocks shall be Kason 1189P Wide Mouth Deep Strike with a minimum steel wall thickness of 0.033".
3. CS2 camlocks shall be one of the following:
   A. Kason 1188RP Wide Mouth Strike with a minimum steel wall thickness of 0.032".
   B. Ningbo NL029154 Wide Mouth Strike with a minimum steel wall thickness of 0.030".
4. CL1 camlocks shall be one of the following:
   A. Kason 1188RBP Locking Point with a minimum steel wall thickness of 0.032".
   B. Ningbo NL029155 Locking Point with a minimum steel wall thickness of 0.030".

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Drawn by: JWK
Date: draft: 07/01/23

J.W. Knezevich
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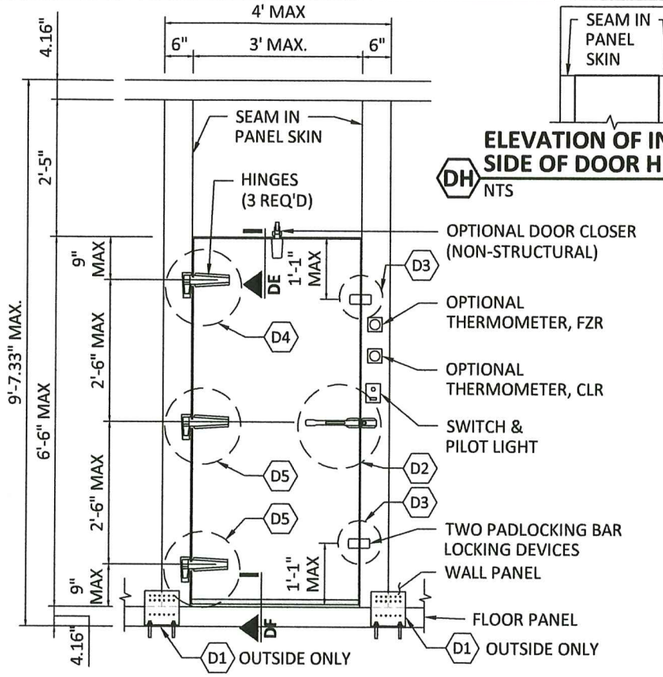
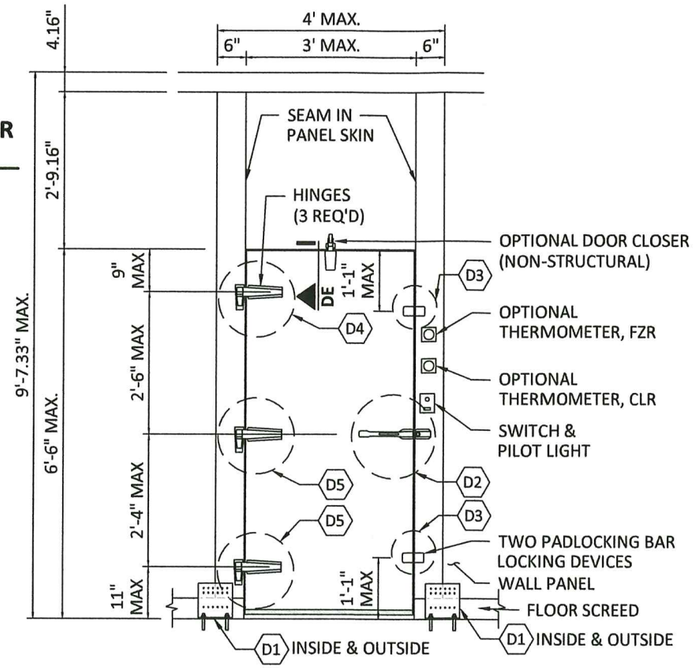
FL License No. PE 41961

Drawing No.
KC23-0601
sheet 6 of 9

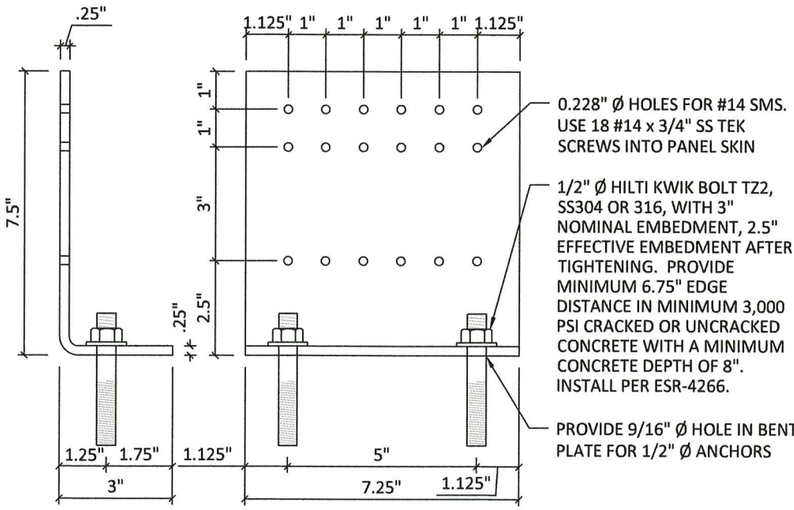


DA EXTERIOR DOOR WITH FLOOR
3/8" = 1'-0"

DH ELEVATION OF INTERIOR SIDE OF DOOR HEAD
NTS

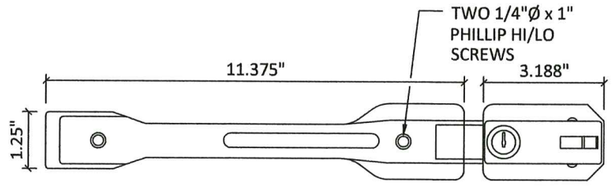


DB EXTERIOR DOOR WITHOUT FLOOR
3/8" = 1'-0"

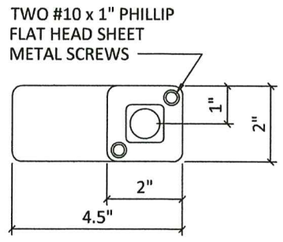


LOCATE PIECE D1 AT EACH SIDE OF EXTERIOR DOORS.
FOR UNITS WITH FLOORS, LOCATE ON OUTSIDE ONLY.
FOR FLOORLESS UNITS, LOCATE INSIDE AND OUTSIDE.

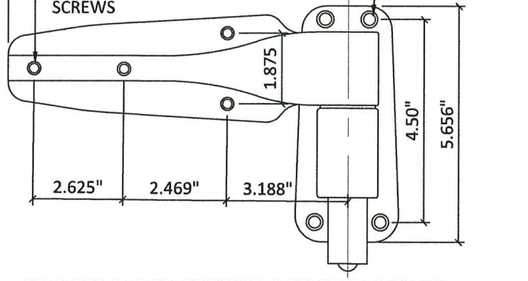
D1 BENT PLATE 1/4" x 3 x 7.5" x 0'-7.25"
3" = 1'-0" A36 STEEL HOT DIPPED GALV.



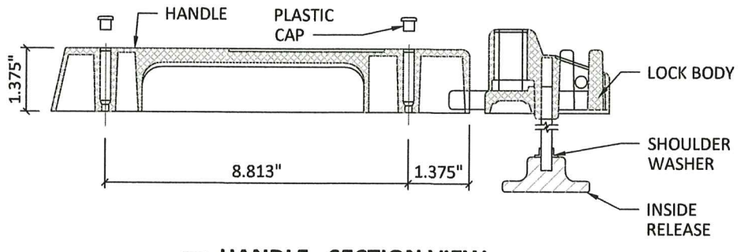
D2 HANDLE - FRONT VIEW
3" = 1'-0"



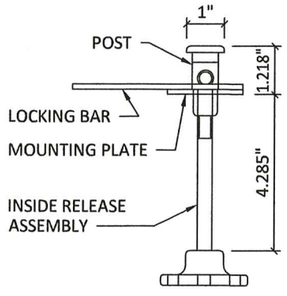
D3 PADLOCK - FRONT VIEW
3" = 1'-0"



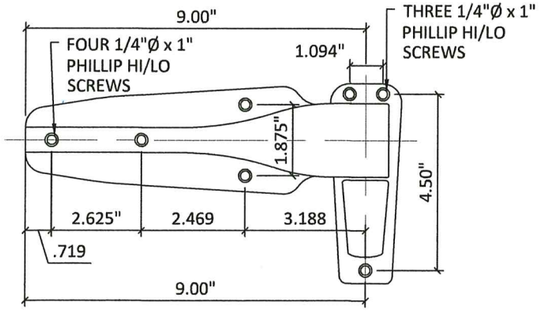
D4 KASON 11248 SPRING ASSISTED HINGE
3" = 1'-0"



D2 HANDLE - SECTION VIEW
3" = 1'-0"



D3 PADLOCK - SECTION VIEW
3" = 1'-0"



D5 KASON 1245 CAM RISE HINGE
3" = 1'-0"

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8/16/23

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WALK-IN COOLER/FREEZER

Client / Manufacturer:
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TEL: (715) 386-2323
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Revisions

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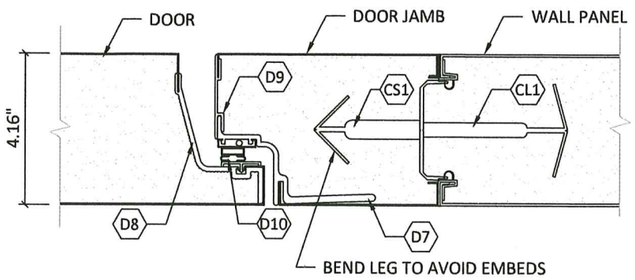
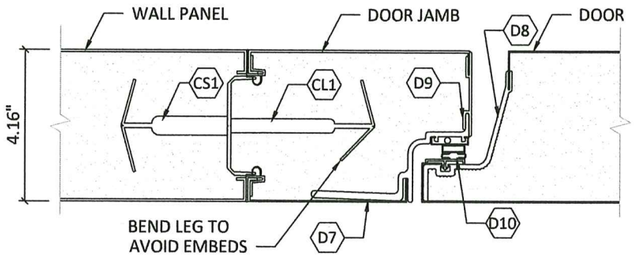
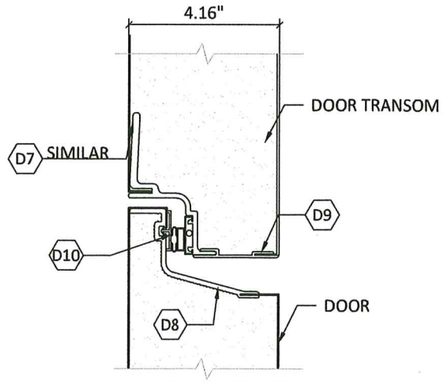
Drawing No.
KC23-0601
sheet 7 of 9



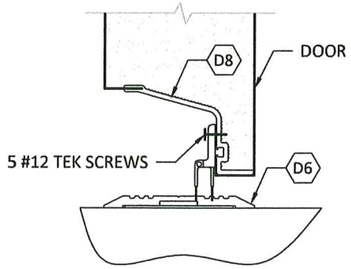
DC DOOR FRAME AT HINGE
3" = 1'-0"



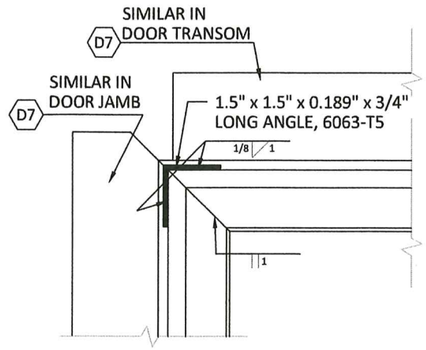
DD DOOR FRAME AT HANDLE
3" = 1'-0"



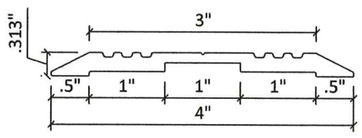
DE DOOR HEADER
3" = 1'-0"



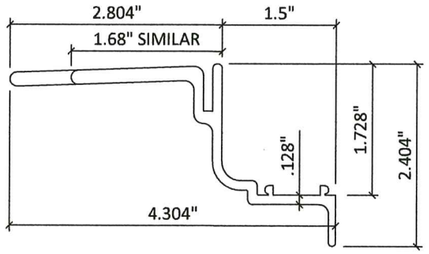
DF DOOR SILL
3" = 1'-0"



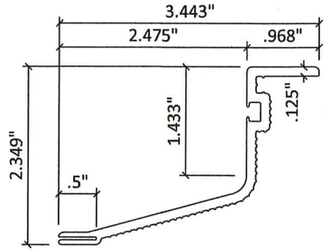
DG DOOR JAMB TO DOOR TRANSOM
3" = 1'-0"



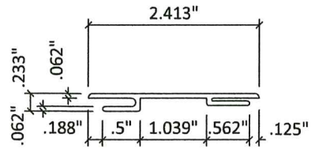
D6 DOOR THRESHOLD
HALF SCALE



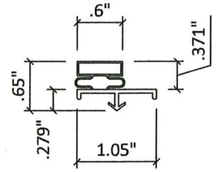
D7 EXTERIOR JAMB EXTRUSION
HALF SCALE



D8 DOOR PAN BREAKER
HALF SCALE



D9 JAMB BREAKER
HALF SCALE RIGID PVC



D10 DOOR GASKET
HALF SCALE FLEXIBLE PVC

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Miami Dade Product Control

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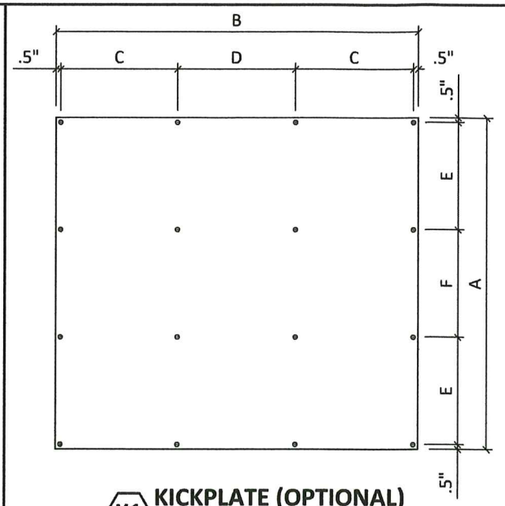


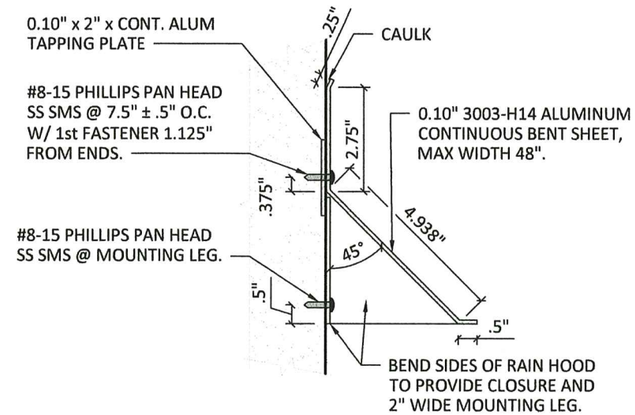
KICKPLATE FASTENER SPACING SCHEDULE			
NOMINAL HEIGHT	A	E	F
36"	35"	11.25"	11.5"
30"	30"	9.75"	9.5"

NOMINAL WIDTH	B	C	D
36	38.375"	12.5"	12.375
30	32.375"	10.5"	10.375
26	28.75"	13.875"	-

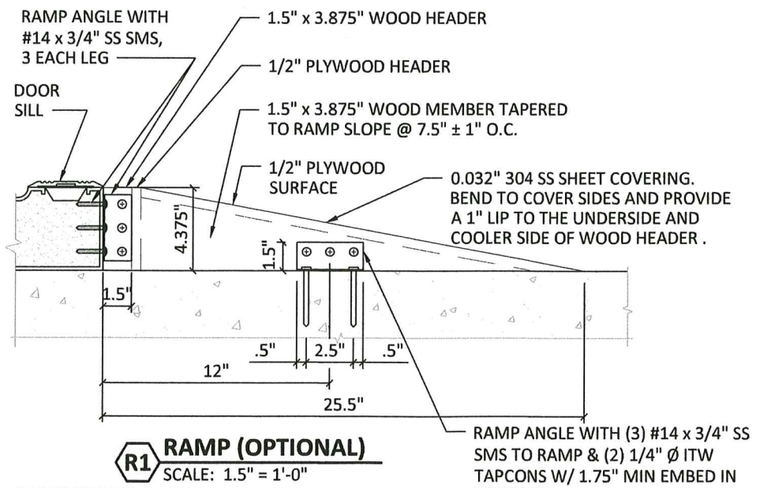
K1 KICKPLATE (OPTIONAL)
3/4" = 1'-0"

KICKPLATE NOTES:

1. Kickplates shall be 0.010" 3003-H14 aluminum raised pattern (diamond plate) sheet.
2. Kickplates shall be fastened to door panel with #8-18 x 3/4" flat head SS SMS.
3. Provide 7/32" Ø holes in kickplate with countersunk surface.
4. 0.010" 3003-H14 aluminum tapping plate required at kickplate location in door or wall panel.
5. Use #27 pilot holes in tapping plate.
6. If holes occur on a raised surface, relocate to adjacent flat surface.



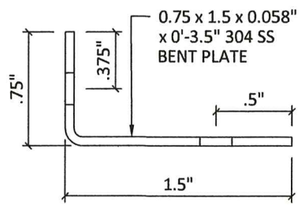
H1 RAIN HOOD (OPTIONAL)
SCALE: 3" = 1'-0"



R1 RAMP (OPTIONAL)
SCALE: 1.5" = 1'-0"

RAMP NOTES:

1. Maximum ramp width is 3'-6".
2. Wood members shall be pressure treated construction grade lumber.
3. Plywood shall be exterior grade.
4. Fasten plywood surface to tapered 2x4 members with staples @ 8" o.c.
5. Fasten plywood header to tapered 2x4 members with 2 staples @ each member.
6. Fasten plywood header to wood header with staples @ 8" o.c.
7. Staples shall be 0.097" Ø x 1.5" heat treated steel staples.
8. Adhere stainless steel sheet to plywood surface with Sikaflex-1A and staple lip with .097" Ø x 1.5" staples @ 8" o.c.
9. Provide slip resistant surface as required by the architect or manufacturer.



RA RAMP ANGLE
SCALE: 1'-0" = 1'-0"

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