



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)

Arctic Industries, Inc.
9731 NW 114 Way
Medley, FL 33178

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 & Freezers

APPROVAL DOCUMENT: Drawing No. AD15-74, titled "Walk-In Coolers & Freezers", sheets 1 through 11 of 11, prepared by MYC Engineering, Inc., dated December 23, 2016, revision #1 dated May 15, 2018, signed and sealed by Yiping Wang, P.E., on May 16, 2018, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number & 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 **renews NOA #18-0522.09** and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

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



Helmy A. Makar
06/09/2022

NOA No. 22-0414.01
Expiration Date: 04/20/2027
Approval Date: 06/09/2022

Arctic Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #16-1013.04

A. DRAWINGS

1. *Drawing No. AD15-74, titled "Walk-In Coolers & Freezers", sheets 1 through 11 of 11, prepared by MYC Engineering, Inc., dated December 23, 2016, signed and sealed by Yiping Wang, P.E., on January 19, 2017.*

B. TESTS

1. *Test report on Large Missile Impact Test, and Cyclic Load Test on Galvanized Steel Sheathed Polyurethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by Hurricane Engineering & Testing, Report No. HETI-16-5098, dated 10/25/2016, signed and sealed by RafaelE. Drooz Seda, P.E.*
2. *Test report on Uniform Static air Pressure Test on Galvanized Steel Sheathed Polyurethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by Hurricane Engineering & Testing, Report No. HETI-16-5014, dated 10/25/2016, signed and sealed by RafaelE. Drooz Seda, P.E.*
3. *Test report on Uniform Static air Pressure Test on Galvanized Steel Sheathed Polyurethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by Hurricane Engineering & Testing, Report No. HETI-14-5005, dated 09/22/2014, signed and sealed by RafaelE. Drooz Seda, P.E.*

C. CALCULATIONS

1. *Calculation titled "Walk-In Coolers and Freezers", dated 01/19/2017, 106 pages, prepared by MYC Engineering, Inc., signed and sealed by Yiping Wang, P.E., on January 19, 2017.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #18-0522.09

A. DRAWINGS

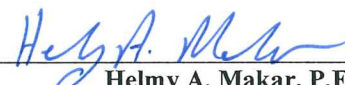
1. *Drawing No. AD15-74, titled "Walk-In Coolers & Freezers", sheets 1 through 11 of 11, prepared by MYC Engineering, Inc., dated December 23, 2016, signed and sealed by Yiping Wang, P.E., on January 19, 2017.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 22-0414.01
Expiration Date: 04/20/2027
Approval Date: 06/09/2022

Arctic Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

3. NEW EVIDENCE SUBMITTED

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. *FBC, 2020 Edition Compliance letter, issued by MCY Engineering, Inc., dated 03/23/22, signed and sealed by Yiping Wang, P.E., on 03/23/22.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 22-0414.01
Expiration Date: 04/20/2027
Approval Date: 06/09/2022

ARCTIC INDUSTRIES, INC. WALK-IN COOLERS AND FREEZERS LARGE AND SMALL MISSILE IMPACT (LMI & SMI)

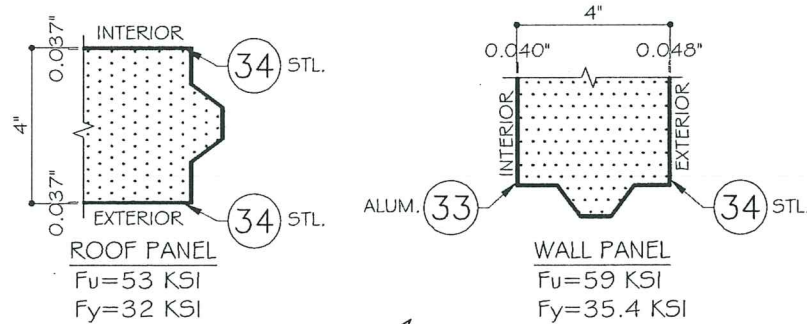
NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 6TH EDITION FLORIDA BUILDING CODE (2017) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WALK-IN COOLER/FREEZER SYSTEM RATED FOR LARGE AND SMALL MISSILE IMPACT.
- WALK-IN COOLER/FREEZER SYSTEM APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED AS FOLLOWS.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- 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 REQUIREMENT OF FBC SECTION 1714.3.1.

- MAXIMUM DESIGN LOADS (DESIGN LOADS LISTED BELOW ARE ALLOWABLE DESIGN LOADS)

A) ROOF:
WIND LOAD: + 60 PSF, - 84 PSF
DEAD LOAD: 5.0 PSF
LIVE LOAD: 30 PSF

MAXIMUM WEIGHT OF MECHANICAL EQUIPMENT IS 330 LBS PER CONDENSING UNIT. SPACE UNITS AT LEAST 4'-0"



B) WALLS:
WIND LOAD: + 60 PSF, - 60 PSF
DEAD LOAD: 2.5 PSF

C) FLOORS:
DEAD LOAD: 5.0 PSF
LIVE LOAD: INSULATED FLOOR 300 PSF

D) BASED ON ASCE 7-10 CHAPTER 27, THE UNIT CAN BE USED AT HIGH VELOCITY HURRICANE ZONE (H.V.H.Z.).
- EXPOSURE CATEGORY D
- RISK CATEGORY I (WIND SPEED 165 MPH)

URETHANE FOAM IN PLACE PANEL SPECIFICATIONS:

1 - WALL & ROOF COMPOSITE SANDWICH PANELS ARE COMPRISED OF ALUMINUM AND STEEL FACINGS WITH Poured URETHANE PLASTIC CORES. THICKNESS AND MATERIAL OF FACINGS SHALL BE AS SHOWN ON THE DRAWINGS.

2 - MINIMUM DENSITY OF URETHANE PANEL CORE SHALL BE 2.2 LBS/FT³.

HARDWARE:

HINGES:

(3) STEEL HINGES (PART #26) ATTACHED TO WALL PANEL USING (4) 1/4" X 2" PFH SDS. (2) PFH SDS AT 1-5/8" O.C. ATTACHED TO PLUG USING (4) 5/16" X 1-1/2" HH LAG SCREWS.

LOCKING BARS:

(2) 3/16" THK. X 3" HIGH X 57" LG. LOCKING BARS USING TO REINFORCE PLUG. EACH LOCKING BAR HAS 2-3/16" WIDE X 7/16" HIGH RADIUS SLOT AT 2" FROM EACH END AND WAS BACKED W/ (2) ROWS OF 1" X 1-1/4" WIDE X 38-3/4" LG. SPONGE WINDOW SEAL TAPE BY M-D. LOCKING BARS ATTACHED TO (4) EMERGENCY RELEASE WALL BRACKETS, 2-3/4" WIDE X 3" HIGH X 1-1/2" DEEP, WHICH ATTACHED TO THE PANEL USING (4) MANUAL RELEASE 3/8" X 5-1/2" LOCKING BOLTS W/ TURN KNOB.

PLUG HANDLE / LOCK:

PLUG HANDLE W/ LOCK LOCATED 39" FROM BOTTOM OF PLUG. ATTACHED TO PLUG W/ (2) #12 X 2" PPH SDS. PLUG STRIKE LOCK WAS LOCATED 39-1/2" FROM BOTTOM OF WALL PANEL AND ATTACHED TO EXTERIOR USING 3/8" X 5-1/2" LOCKING BOLT W/ TURN KNOB.

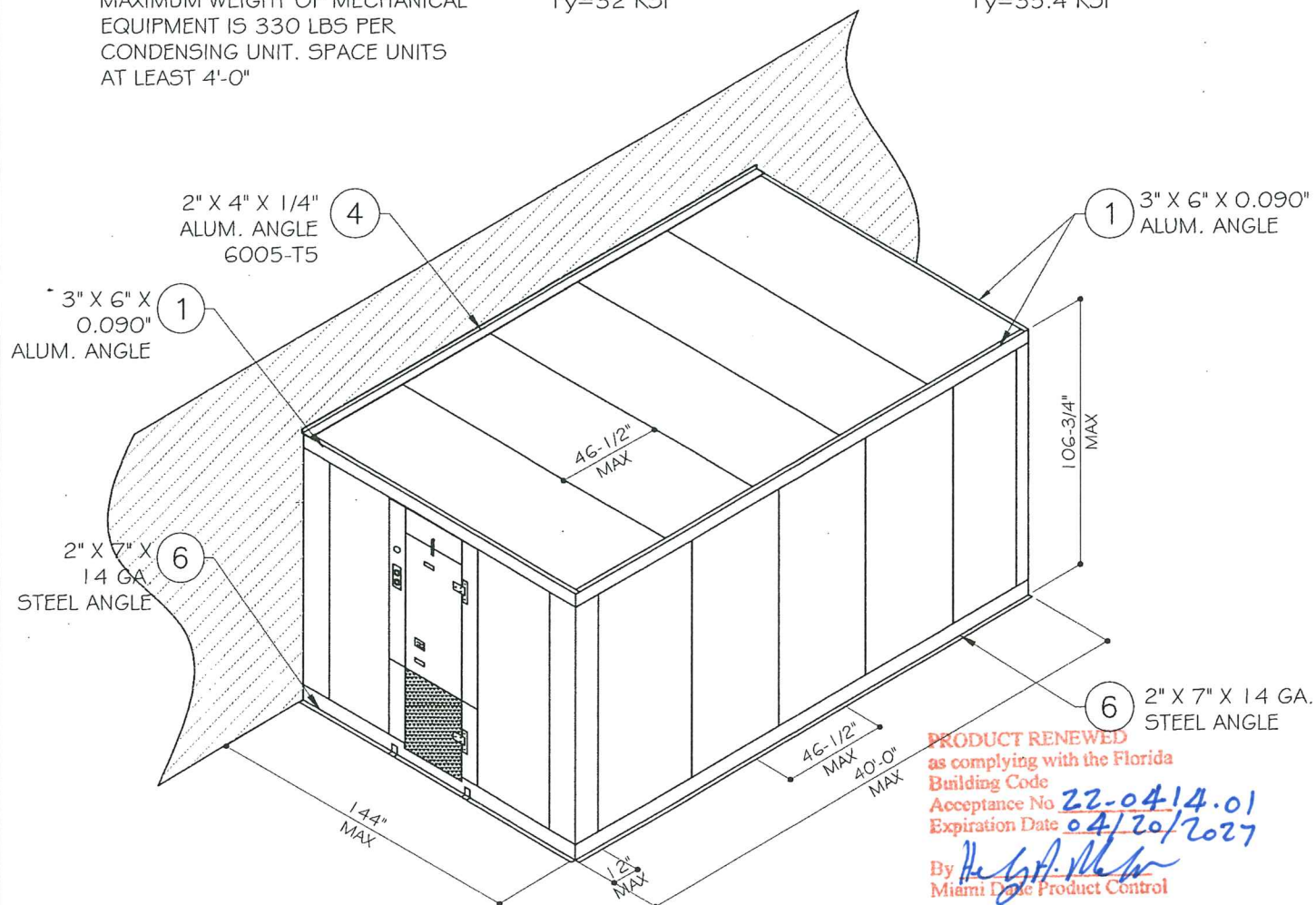
HYDRAULIC DOOR CLOSER:

HYDRAULIC DOOR CLOSER (PART #36) INSTALLED ON WALL PANEL AND PLUG AT 34-1/2" FROM LEFT OF PANEL.

RAIN HOOD:

4" X 5-1/4" DEEP X 45" WIDE RAIN HOOD ATTACHED ABOVE DOOR USING (8) #8 X 3/4" ACRYLUME STEEL PPH SDS LOCATED 1" FROM HORIZ. LIP END AND 6" O.C. VERTICAL ENDS OF HOOD ATTACHED WITH (2) #8 X 3/4" ST/ST PPH SDS LOCATED 1/2" AND 2-1/2" FROM BOTTOM END OF VERTICAL LIP.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 18-0522.09 MAY 16 2018
Expiration Date 04/20/2022
By *Yiping Wang*
Miami Dade Product Control



PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 22-0414.01
Expiration Date 04/20/2027
By *Yiping Wang*
Miami Dade Product Control

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING	O.C. - ON CENTER
F.H. - FRAME HEIGHT	W/O - WITHOUT
F.W. - FRAME WIDTH	SECTION NUMBER
LG. - LONG	(C) NUMBER
STL. - STEEL	(7) SHEET NUMBER
ALUM. - ALUMINUM	
W/ - WITH	

MIAMI DADE COUNTY

YIPING WANG, P.E.
FLORIDA REGISTRATION #55983
C.A.N.#28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
NO.	DESCRIPTION
1	5/15/18 2017 FBC UPDATE

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

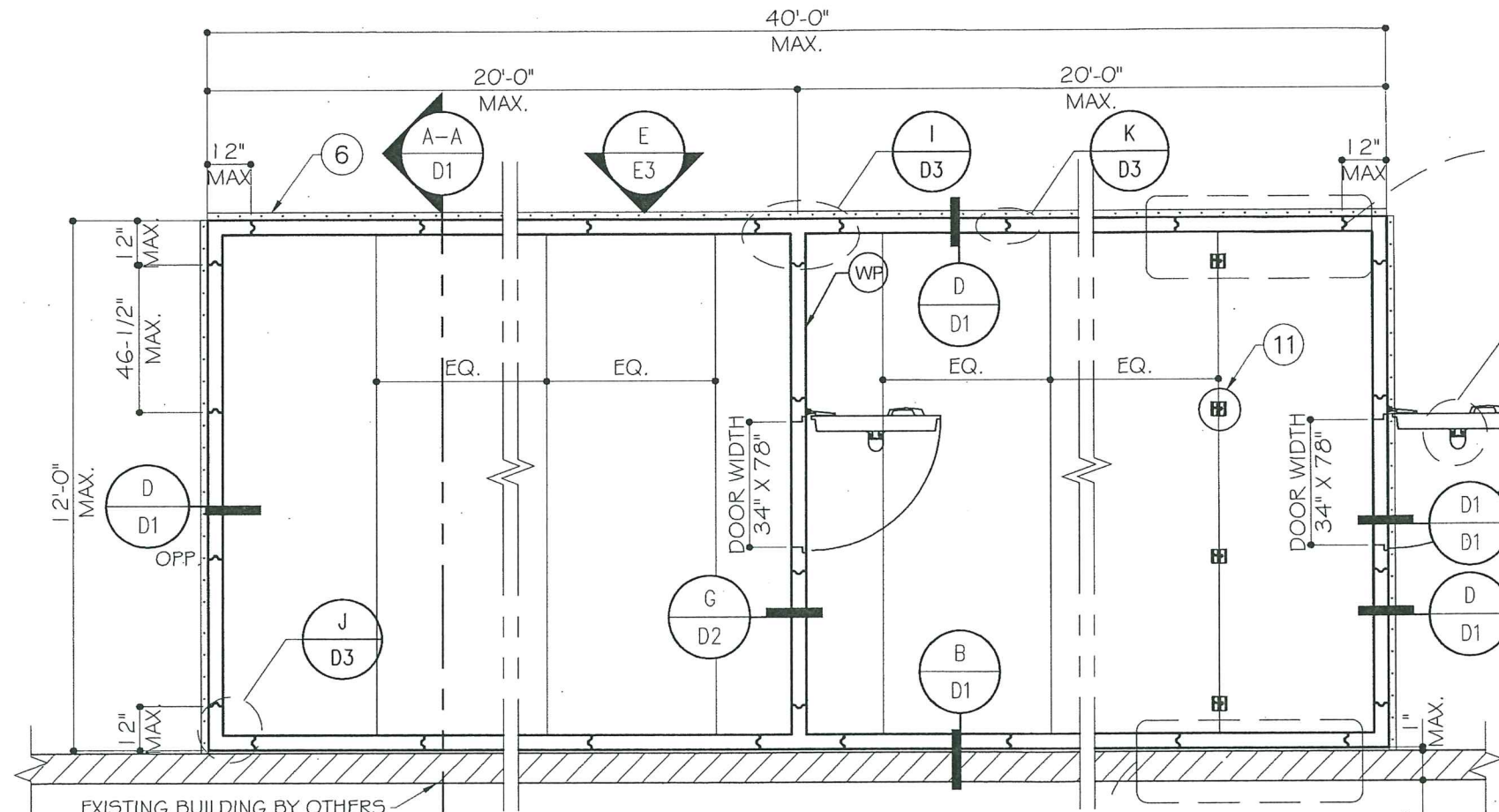
8501 SW 124 AVE.
SUITE 205A
MIAMI, FL 33186
P: 305.271.0117
F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

ARCTIC INDUSTRIES, INC.
SINGLE AND COMBO REINF. BOXES

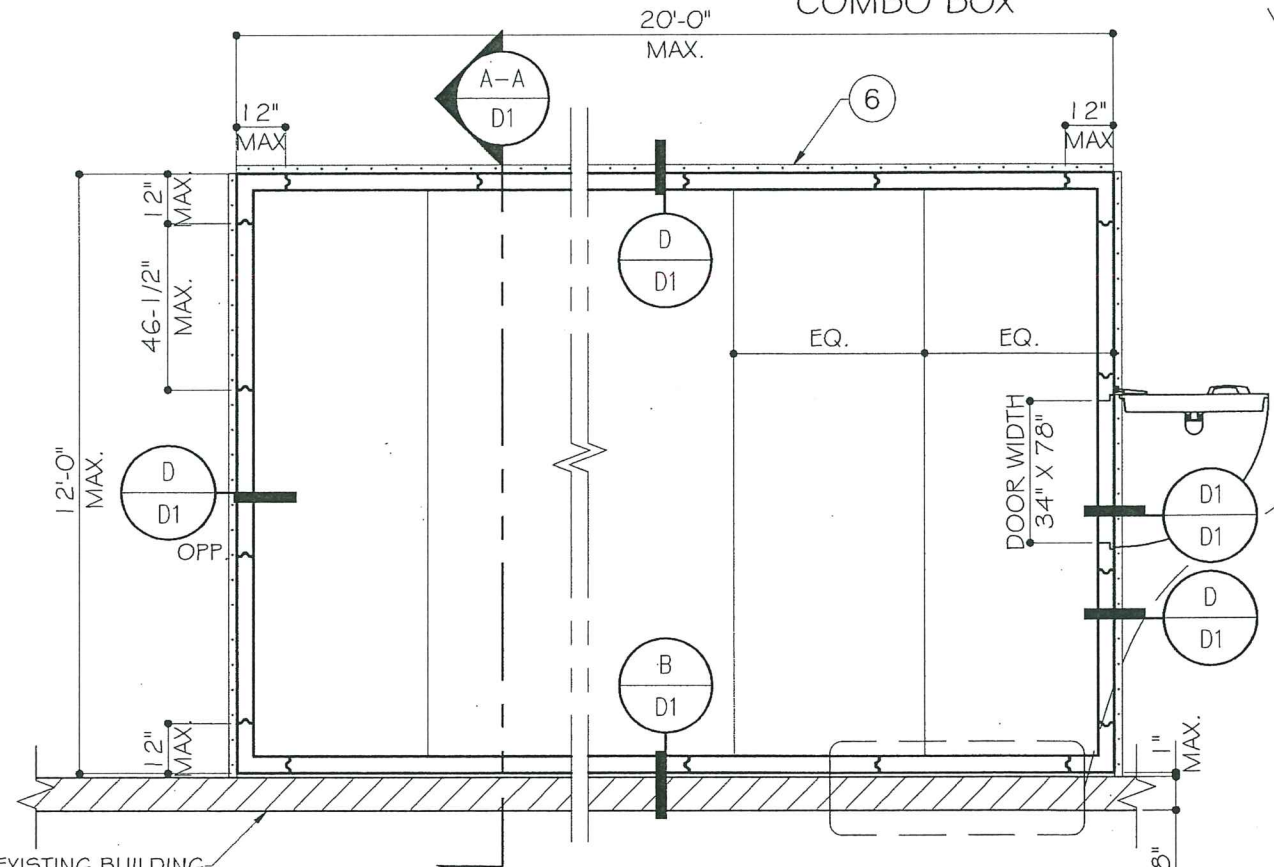
9731 NW 114TH WAY, MEDLEY, FL 33178
Phone (305) 883-5581 Fax (305) 883-4651

COVER

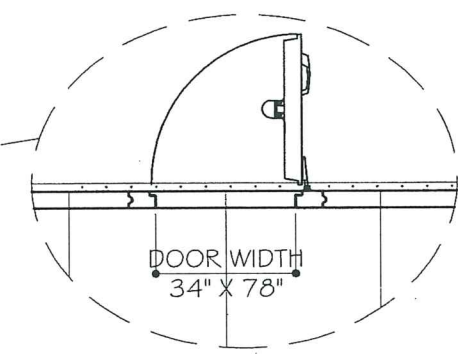
DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO.	AD15-74
SHEET 1 OF 11	



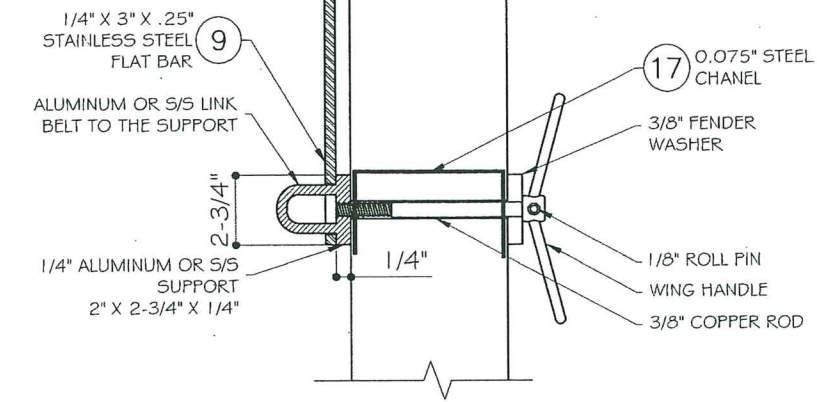
FLOOR PLAN VIEW
COMBO BOX



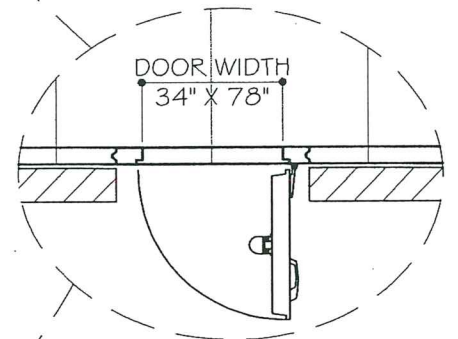
FLOOR PLAN VIEW
(SINGLE BOX)



DOOR OPTION



1 LOCKING BAR DETAIL



DOOR OPTION
OPEN TO EXISTING BUILDING

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0522.09
Expiration Date 04/20/2022
By *Helga A. M...*
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 22-0414.01
Expiration Date 04/20/2027
By *Helga A. M...*
Miami Dade Product Control

MIAMI DADE COUNTY

STATE OF FLORIDA

YIPING WANG P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. #26977

MAY 10 2018

NO.	DATE	DESCRIPTION
1	5/15/18	2017 FBC UPDATE

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE.
SUITE 205A
MIAMI, FL 33183

P: 305.271.0117
F: 305.921.4786

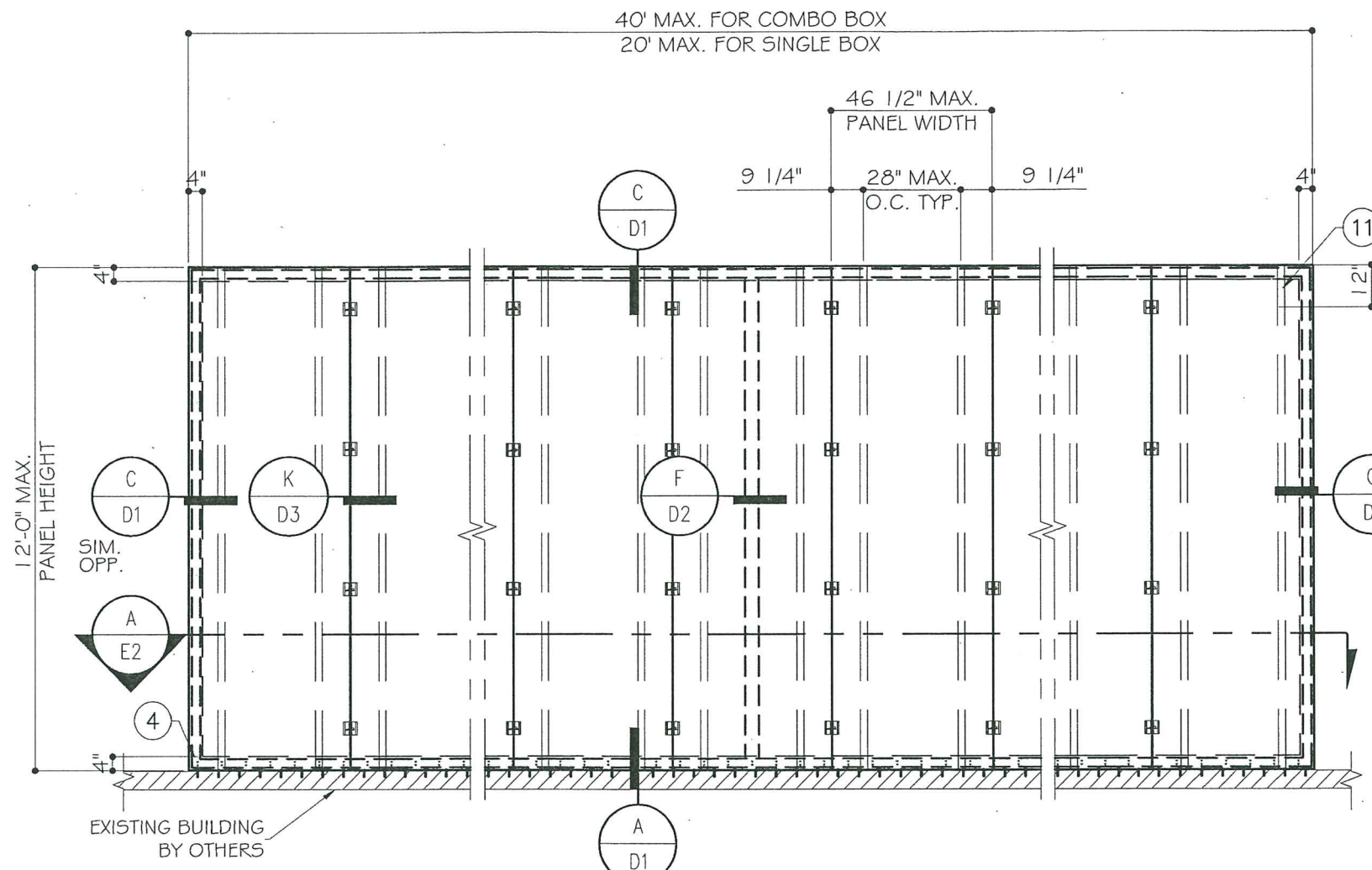
www.MCYEngineering.com MCY.Engineering@Att.net

SINGLE AND COMBO REINF. BOXES

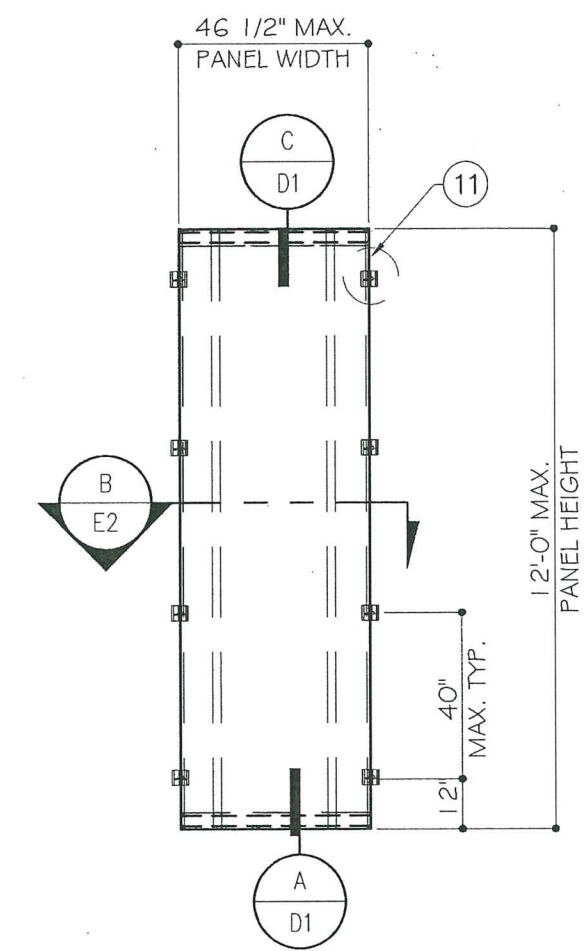
ARCTIC INDUSTRIES, INC.

9731 NW 114TH WAY, MEDLEY, FL 33178
Phone (305) 883-5581 Fax (305) 883-4651

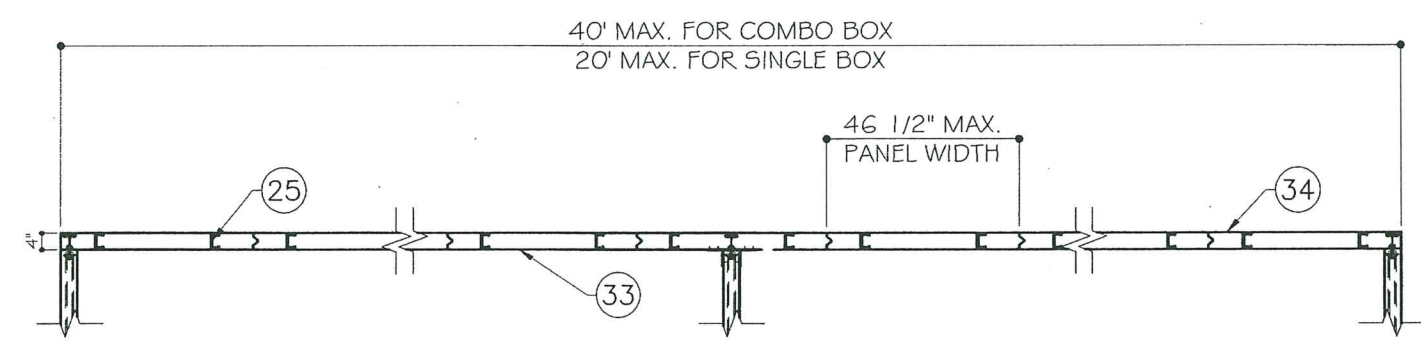
DATE	12/23/16
SCALE	AS NOTED
BRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO.	AD15-74
SHEET 2 OF 11	



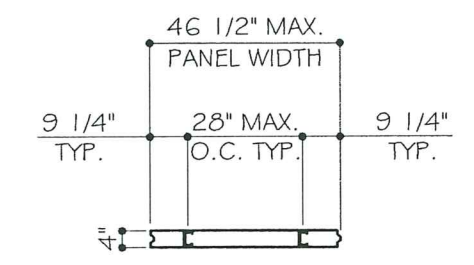
TYPICAL EXTERIOR ROOF PANEL ELEVATION



TYPICAL ROOF PANEL ELEVATION



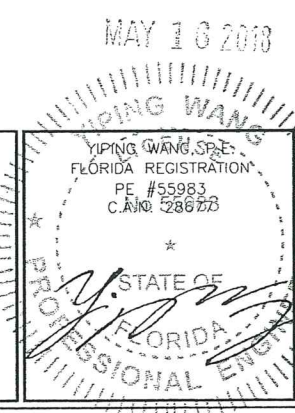
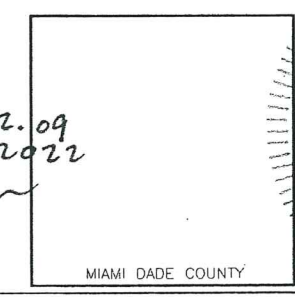
SECTION A



SECTION B

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 22-0414-01
 Expiration Date 04/20/2027
 By *Hely A. Melon*
 Miami Dade Product Control

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 18-0522-09
 Expiration Date 04/20/2022
 By *Hely A. Melon*
 Miami Dade Product Control

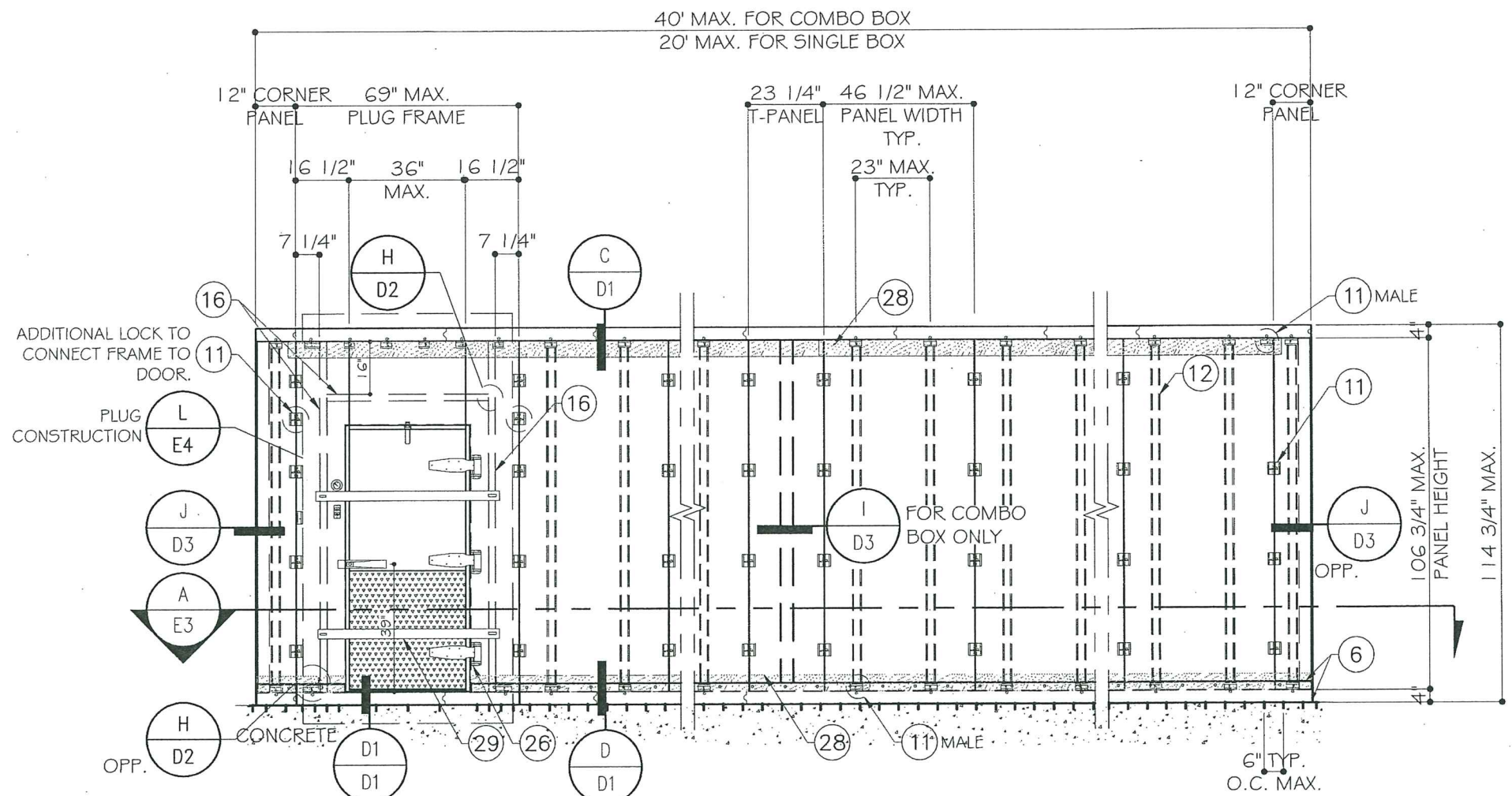


NO.	DATE	DESCRIPTION
1	5/15/18	2017 FBC UPDATE

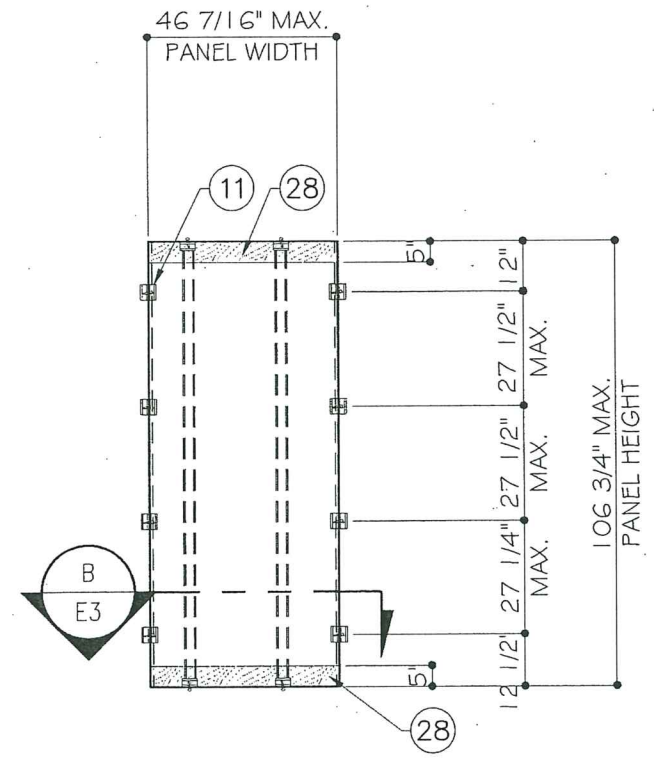
MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 8501 SW 124 AVE.
 SUITE 205A
 MIAMI, FL 33183
 P: 305.271.0117
 F: 305.921.4786
 www.MCYEngineering.com
 MCY.Engineering@Att.net

SINGLE AND COMBO REINF. BOXES
ARCTIC INDUSTRIES, INC.
 9731 NW 114TH WAY, MEDLEY, FL 33178
 Phone (305) 883-5581 Fax (305) 883-4651

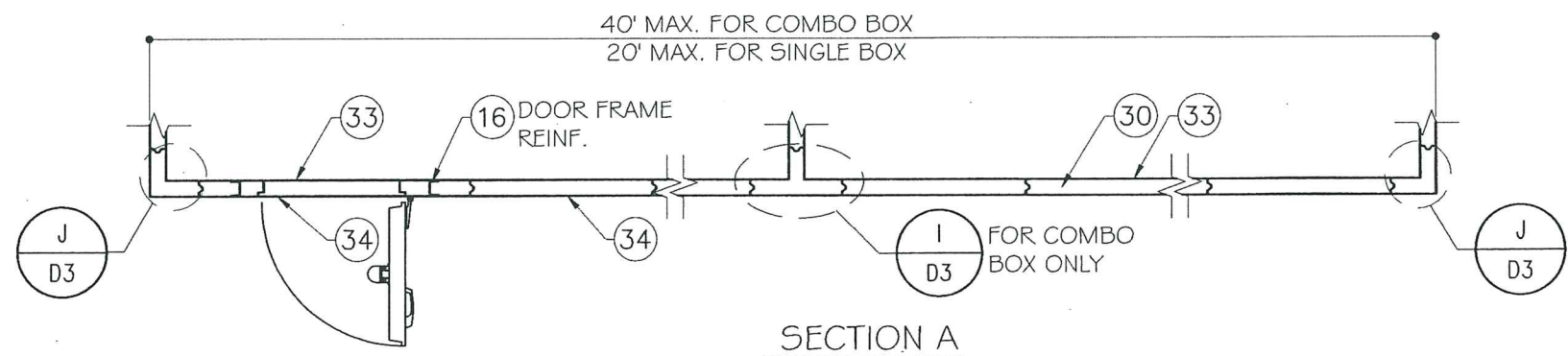
DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO.	AD15-74
SHEET 3 OF 11	



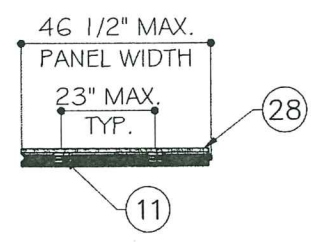
E
E3
TYPICAL EXTERIOR WALL PANEL ELEVATION



TYPICAL WALL PANEL ELEVATION



SECTION A



SECTION B

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **22-0414.01**
Expiration Date **04/20/2027**
By *Heby A. Mohr*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **18-0522.09**
Expiration Date **04/20/2022**
By *Heby A. Mohr*
Miami Dade Product Control

MAY 13 2010

YIPING WANG
YIPING WANG P.E.
FLORIDA REGISTRATION
PE #55983
C.A.C.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

MIAMI DADE COUNTY

NO.	DATE	DESCRIPTION
1	5/15/18	2017 FBC UPDATE

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE.
SUITE 205A
MIAMI, FL 33183

P: 305.271.0117
F: 305.921.4786

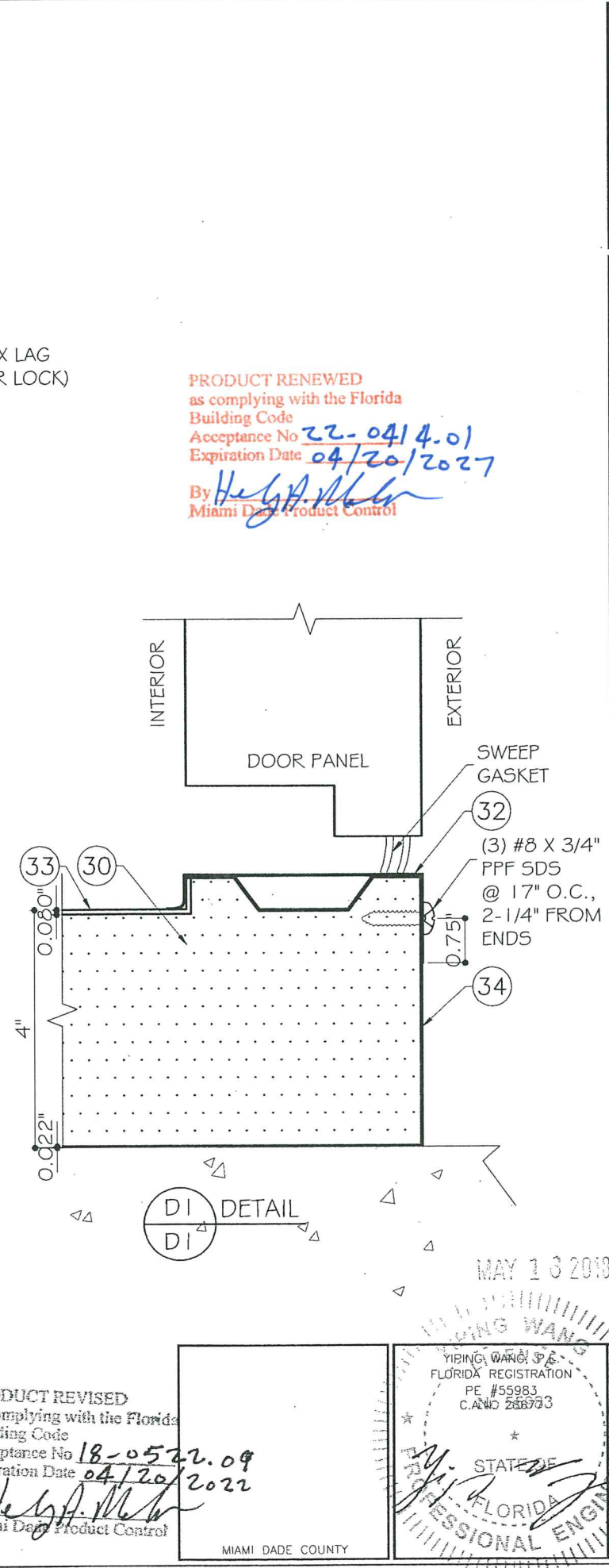
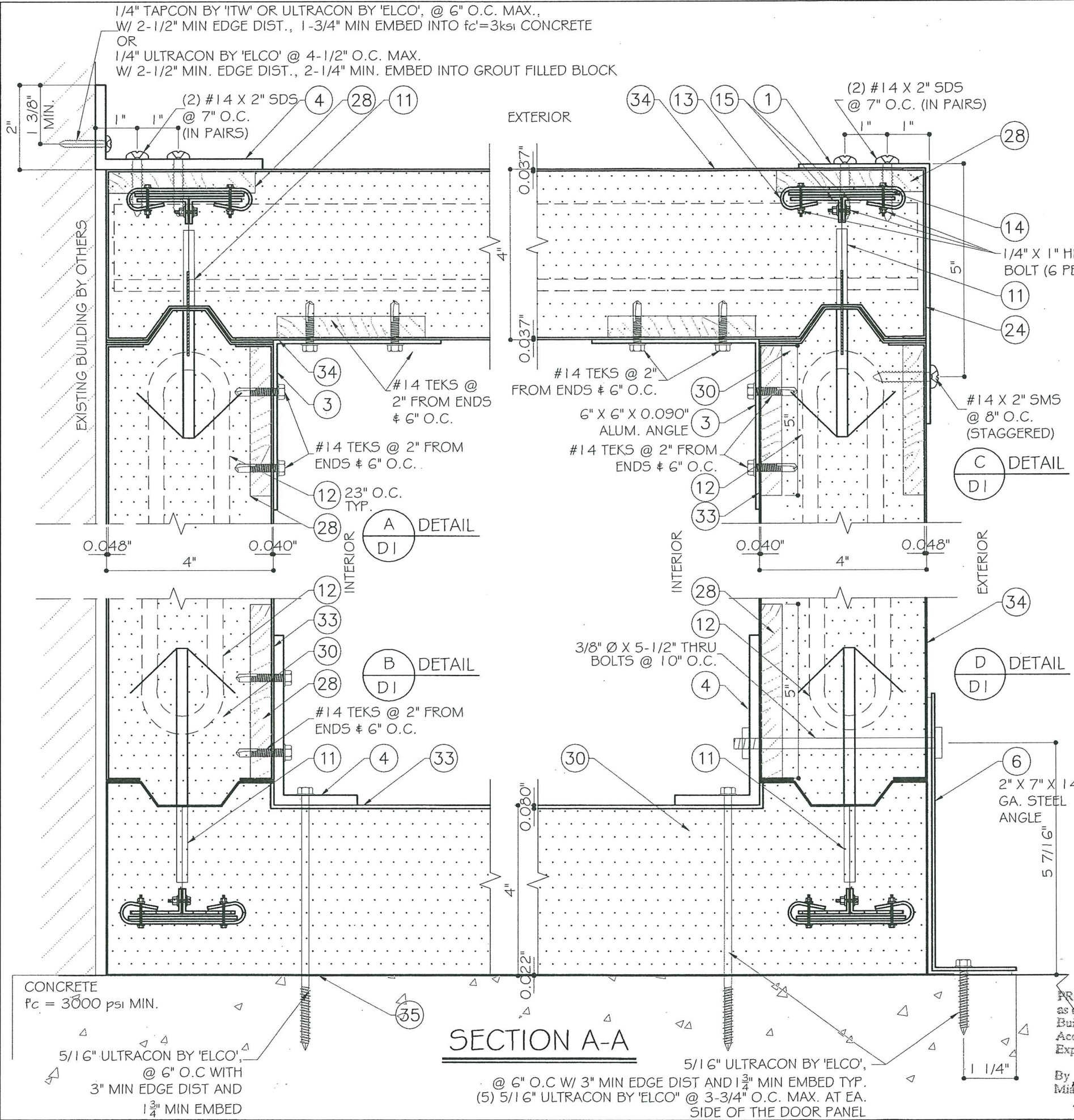
www.MCYEngineering.com MCY.Engineering@Att.net

SINGLE AND COMBO REINF. BOXES

ARCTIC INDUSTRIES, INC.

9731 NW 114TH WAY, MEDLEY, FL 33178
Phone (305) 883-5581 Fax (305) 883-4651

E3	
DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO. AD15-74	
SHEET 4 OF 11	



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 22-0414.01
 Expiration Date 04/20/2027
 By Heidi A. Miller
 Miami Dade Product Control

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 18-0522.09
 Expiration Date 04/20/2022
 By Heidi A. Miller
 Miami Dade Product Control

MAY 13 2018
 YIBING WANG, P.E.
 FLORIDA REGISTRATION
 PE #55983
 C.A.N.O 266933
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

REVISIONS	
NO.	DESCRIPTION
1	5/15/18 2017 FBC UPDATE

MCY	
MCY ENGINEERING, INC. GLAZING CONSULTANTS	
8501 SW 124 AVE. SUITE 205A MIAMI, FL 33183	P: 305.271.0117 F: 305.921.4786
www.MCYEngineering.com	MCY.Engineering@Att.net

SINGLE AND COMBO REINF. BOXES	
ARCTIC INDUSTRIES, INC.	
9731 NW 114TH WAY, MEDLEY, FL 33178	Phone (305) 883-5581 Fax (305) 883-4651

DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.C.
PROJECT	MCY15-142
DRAWING NO.	AD15-74
SHEET 6 OF 11	

SECTION A-A

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

DI
DI

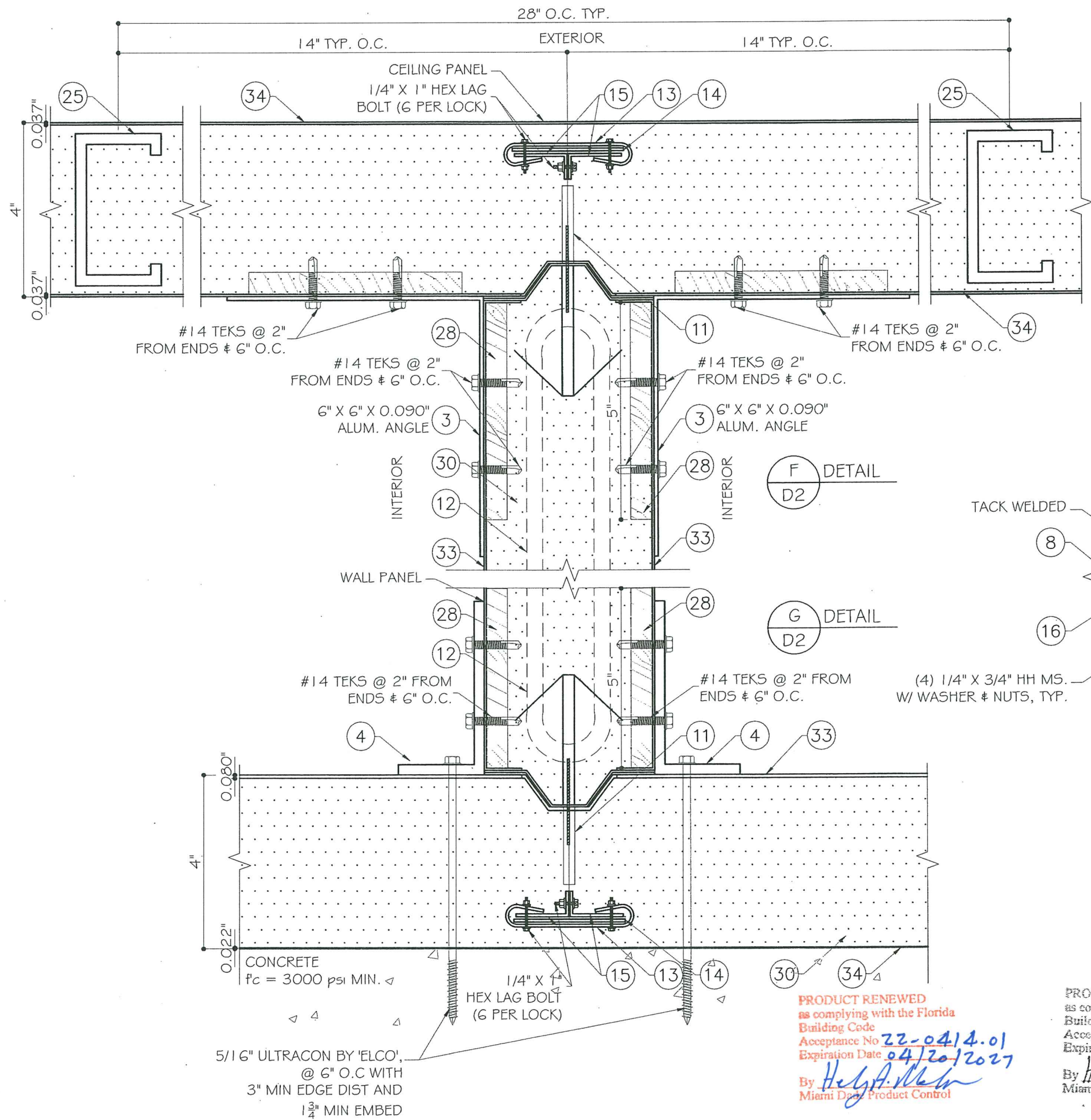
DI
DI

DI
DI

DI
DI

DI
DI

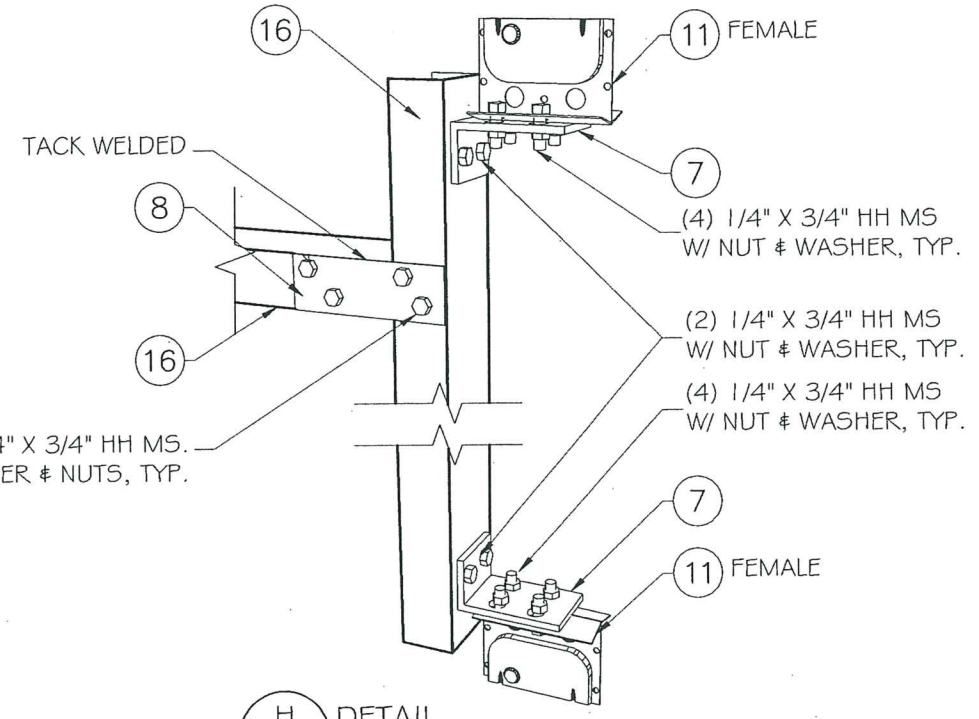
DI
DI



F
D2
DETAIL

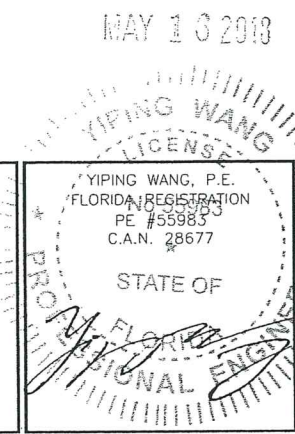
G
D2
DETAIL

H
D2
DETAIL



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 22-0414.01
Expiration Date 04/20/2027
By Hely A. Melin
Miami Dept Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0522-09
Expiration Date 04/20/2022
By Hely A. Melin
Miami Dept Product Control



NO.	DATE	DESCRIPTION
1	5/15/18	2017 FBC UPDATE

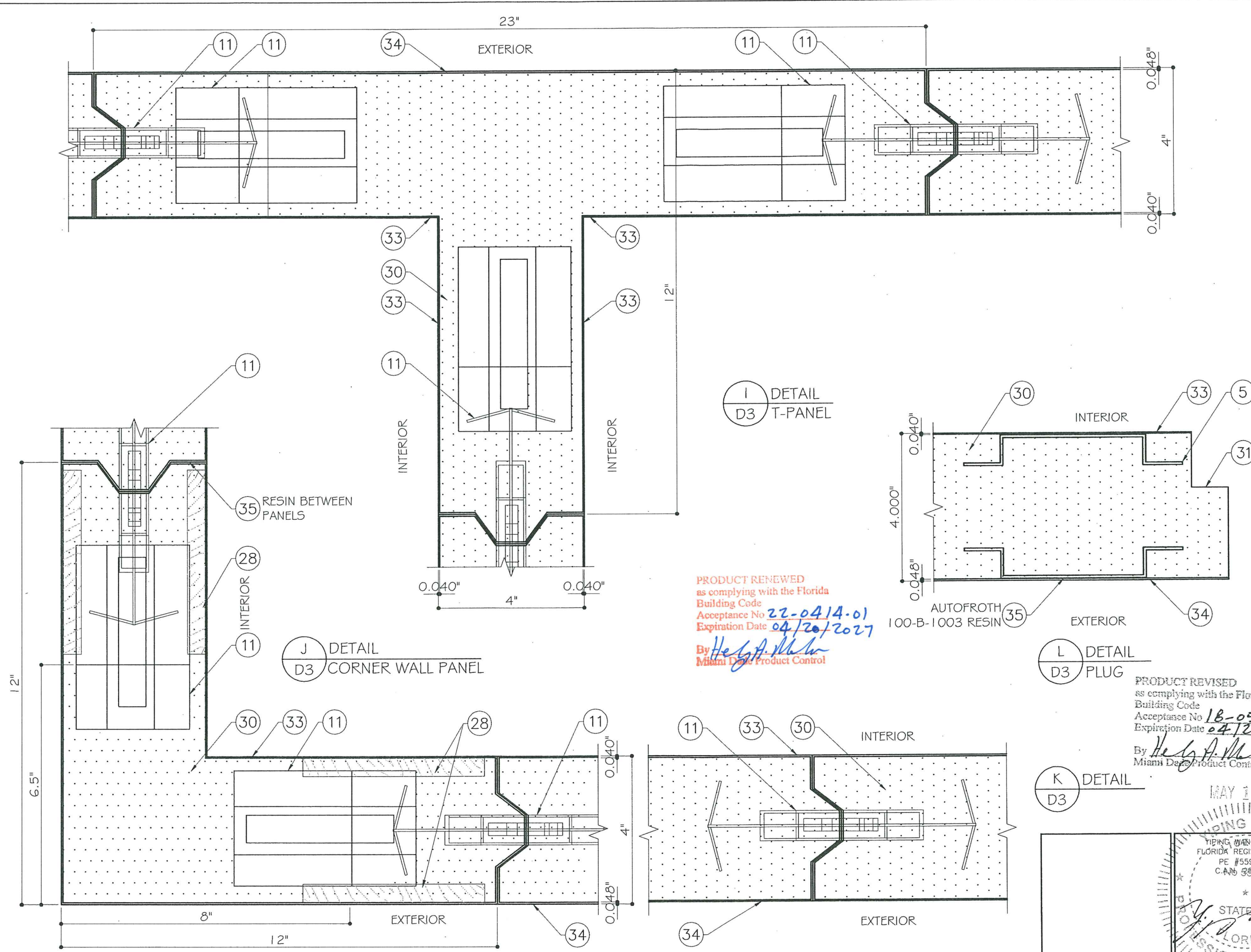
MCY
ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE.
SUITE 205A
MIAMI, FL 33183
P: 305.271.0117
F: 305.921.4786
www.MCYEngineering.com
MCY.Engineering@Att.net

SINGLE AND COMBO REINF. BOXES
ARCTIC INDUSTRIES, INC.
9731 NW 114TH WAY, MEDLEY, FL 33178
Phone (305) 883-5581 Fax (305) 883-4651

D2	
DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO.	AD15-74
SHEET 7 OF 11	

MIAMI DADE COUNTY

MAY 10 2018



I
D3
DETAIL
T-PANEL

J
D3
DETAIL
CORNER WALL PANEL

L
D3
DETAIL
PLUG

K
D3
DETAIL

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 22-0414-01
Expiration Date 04/20/2027
By Healy A. Miller
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0522-09
Expiration Date 04/20/2022
By Healy A. Miller
Miami Dade Product Control

MAY 13 2018
YIPING WANG P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 33983
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

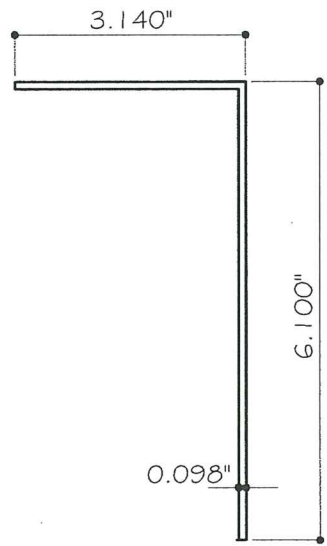
REVISIONS	
NO.	DESCRIPTION
1	5/15/18 2017 FBC UPDATE

MCY
ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE.
SUITE 205A
MIAMI, FL 33183
P: 305.271.0117
F: 305.921.4786
www.MCYEngineering.com
MCY.Engineering@Att.net

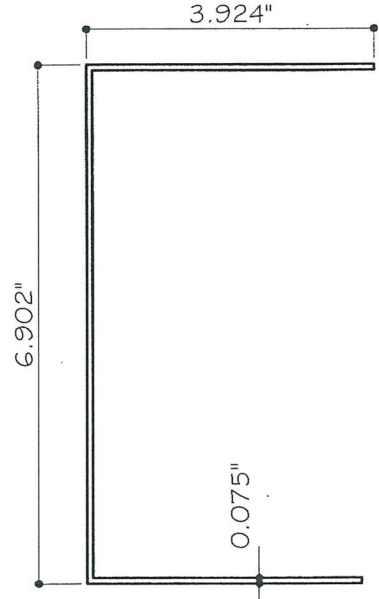
SINGLE AND COMBO REINF. BOXES
ARCTIC INDUSTRIES, INC.
9731 NW 114TH WAY, MEDLEY, FL 33178
Phone (305) 883-5581 Fax (305) 883-4651

D3	
DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO.	AD15-74
SHEET 8 OF 11	

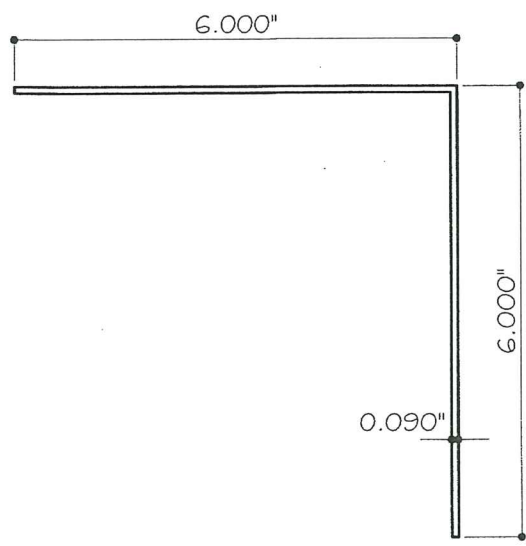
MIAMI DADE COUNTY



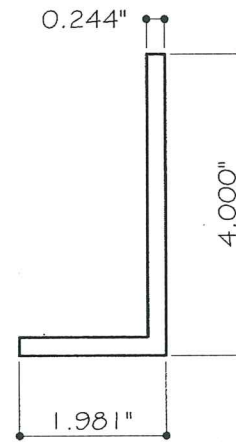
① ALUM. CONT. ANGLE, .098" THK.
ALUM. 5052-0



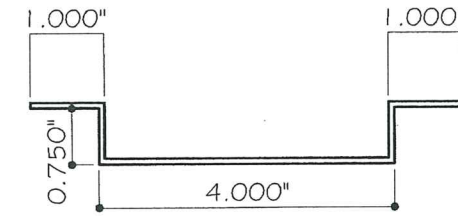
② 7" X 0.075" X 4" STEEL CHANNEL
GALV. STEEL; HRB: 64



③ ALUM. ANGLE
ALUM. 6063-T6

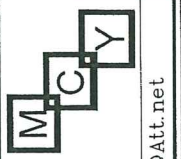


④ ALUM. CONT. ANGLE,
1/4" THK.
ALUM. 6063-T6



⑤ PLUG REINF. CHANNEL
GALV. STEEL; HRB: 74

REVISIONS		
NO.	DATE	DESCRIPTION
1	5/15/18	2017 FBC UPDATE



MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124 AVE.
SUITE 205A
MIAMI, FL. 33183
P: 305.271.0117
F: 305.921.4786
www.MCYEngineering.com
MCY.Engineering@Att.net

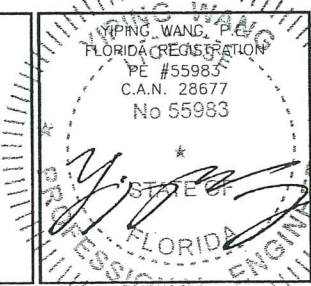
SINGLE AND COMBO REINF. BOXES
ARCTIC INDUSTRIES, INC.
9731 NW 114TH WAY, MEDLEY, FL 33178
Phone (305) 883-5581 Fax (305) 883-4651

PARTS

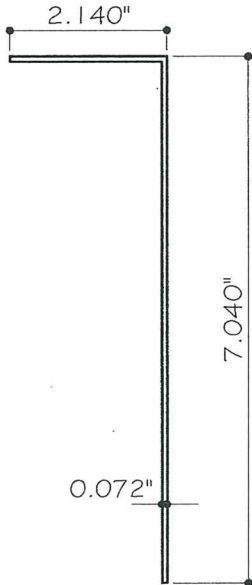
DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO.	AD15-74
SHEET 9 OF 11	

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 22-0414.01
Expiration Date 04/20/2027
By Hely A. Malin
Miami Dade Product Control

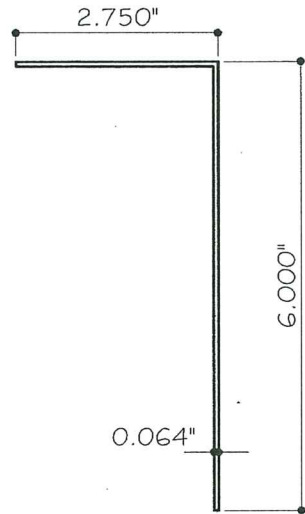
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0522.09
Expiration Date 04/20/2022
By Hely A. Malin
Miami Dade Product Control



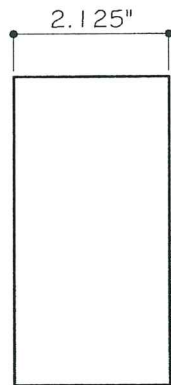
MIAMI DADE COUNTY



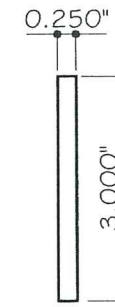
⑥ STEEL CONT. ANGLE
GALV. STEEL



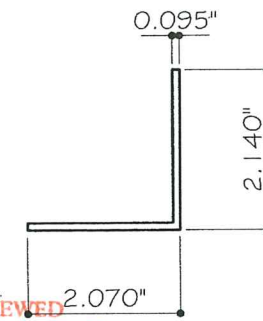
⑦ ALUM. CONT. ANGLE, 2-1/2" WIDE
ALUM. 6063-T6



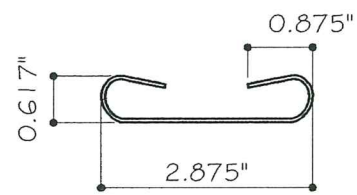
⑧ STEEL FLAT BAR, 14 GA. THK.
STEEL



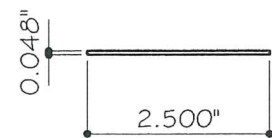
⑨ STEEL FLAT BAR, 1/4" THK.
STEEL



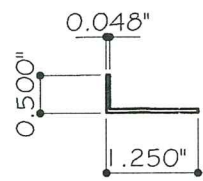
⑩ CONT. STEEL ANGLE
ST/ST



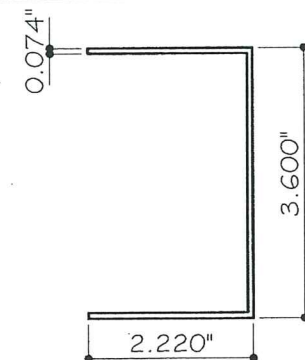
⑬ #5 STEEL CHANNEL
GALV. STEEL; HRB: 64



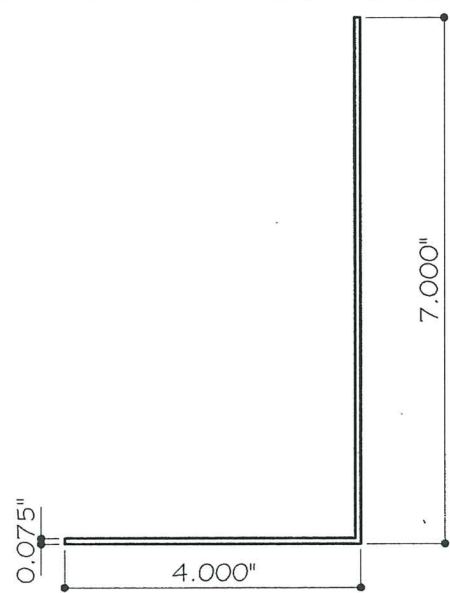
⑭ #6 STEEL CHANNEL
GALV. STEEL; HRB: 63



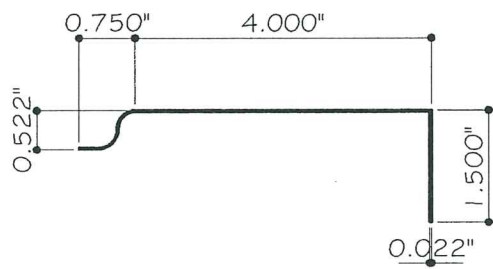
⑮ #7 STEEL CHANNEL
GALV. STEEL; HRB: 63



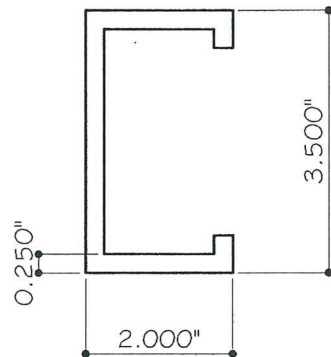
⑯ DOOR FRAME REINF.
CHANNEL
GALV. STEEL; HRB: 70



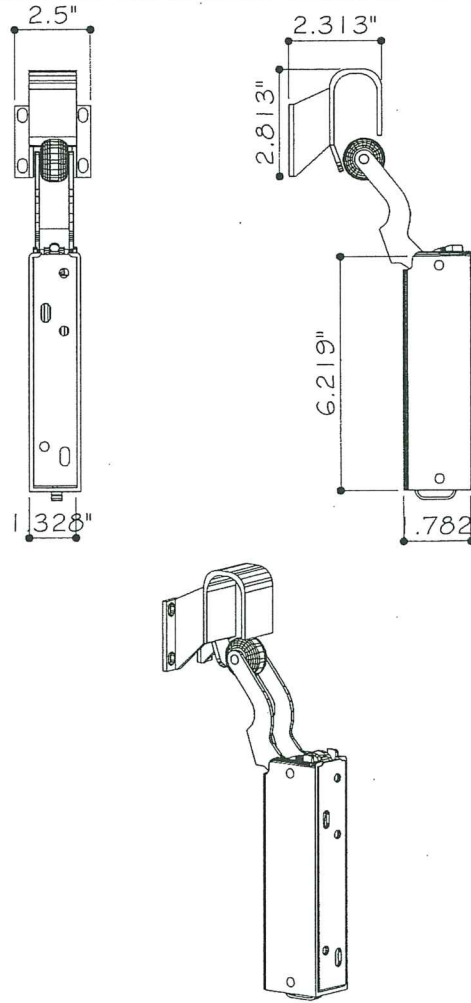
17 STEEL CHANNEL
STEEL



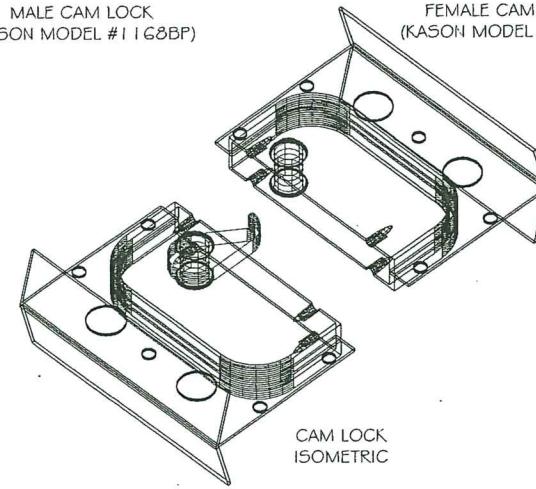
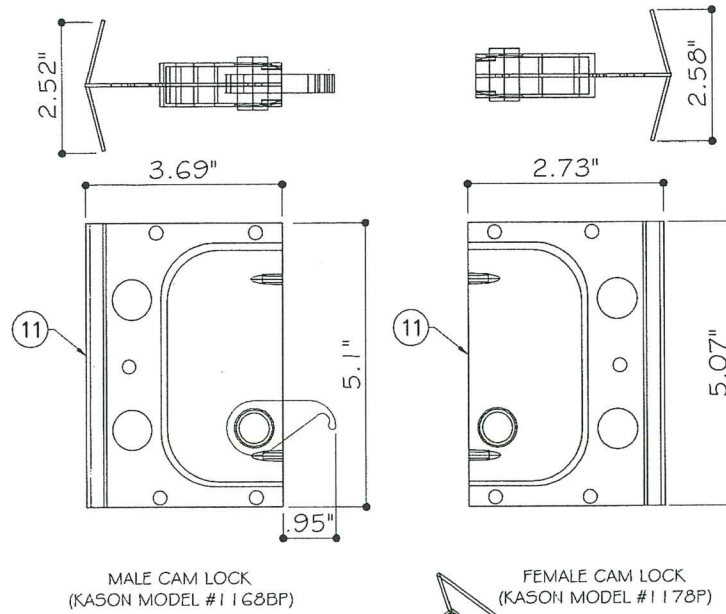
32 DOOR THRESHOLD
STEEL



25 HAT-SHAPED EXPANDED METAL
GALV. STEEL; HRB: 64



19 HYDRAULIC DOOR CLOSER
STEEL



11 CAM LOCK
STEEL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0522.09
Expiration Date 04/20/2022

By *Helga A. Walker* MAY 10 2018
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 22-0414.01
Expiration Date 04/20/2027
By *Helga A. Walker*
Miami Dade Product Control

MIAMI DADE COUNTY

YIPING WANG
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
QA#55983

STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
NO.	DATE DESCRIPTION
1	5/15/18 2017 FBC UPDATE

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE.
SUITE 205A
MIAMI, FL 33183

P: 305.271.0117
F: 305.921.4786

www.MCYEngineering.com MCY.Engineering@Att.net

SINGLE AND COMBO REINF. BOXES

ARCTIC INDUSTRIES, INC.

9731 NW 114TH WAY, MEDLEY, FL 33178
Phone (305) 863-5581 Fax (305) 883-4651

PARTS	
DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO. AD15-74	
SHEET 10 OF 11	

BILL OF MATERIALS

ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	-	3.14" X 6.10" X 0.098" CONTINUOUS ANGLE	ALUM. 5052-0	-
2	-	7" X 0.075" X 4" STEEL CHANNEL	STEEL	-
3	-	6" X 6" X 0.090" ALUM. ANGLE	ALUM. 6063-T6	-
4	-	2" X 4" X 1/4" ALUM. CONTINUOUS ANGLE	ALUM. 6005-T5 OR 6061-T6	-
5	-	PLUG REINFORCEMENT CHANNEL 1.43" X 6.00" X 0.074"	GALV. STEEL; HRB: 74	-
6	-	2.14" X 7.04" X 14 GA. CONTINUOUS ANGLE	GALV. STEEL	-
7	-	14 GA. X 2-3/4" X 6" X 2-1/2" WIDE ANGLE	ALUM. 6063-T6	-
8	-	14 GA. X 4-1/8" LG. X 2-1/8" HIGH STEEL FLAT BAR	STEEL	-
9	-	1/4" X 3" X .25" STAINLESS STEEL FLAT BAR	ST/ST	-
10	-	2.14" X 2.07" X 0.095" ANGLE	STEEL	-
11	1168BP	CAM LOCK	MALE CAM LOCK	KASON
	1178P		FEMALE CAM LOCK	KASON
12	-	CAM LOCK CONNECTORS (1/8" GALVANIZED WIRE ROPE) @ 23" O.C. TYP. (2 PER CAM LOCK)	ALUM. 6063-T6	MCMaster-CARR
13	-	#5 STEEL CHANNEL, 0.62" X 3.00" X 0.048" THK.	GALV. STEEL; HRB: 64	-
14	-	#6 STEEL CHANNEL, 2.43" X 6.00" X 0.057" THK.	GALV. STEEL; HRB: 63	-
15	-	#7 STEEL CHANNEL, 0.63" X 1.12" X 0.048" THK.	GALV. STEEL; HRB: 63	-
16	-	DOOR FRAME REINFORCEMENT CHANNEL, 2.22" X 3.60" X 0.074" THK. MAX.	GALV. STEEL; HRB: 70	-
17	-	7" X 0.075" X 4" STEEL CHANNEL	STEEL	-
18	-	DEADBOLT BACKING, 0.100" THK.	ALUM. 3003	-
19	305 I	HYDRAULIC DOOR CLOSER	STEEL	KASON
20	300 I	PANEL GASKET	VINYL	JEANS' EXTRUSIONS, INC.
21	-	PLUG GASKET	VINYL	JEANS' EXTRUSIONS, INC.
22	-	PLUG GASKET INSERT	VINYL	JEANS' EXTRUSIONS, INC.
23	-	HINGE REINFORCEMENT	WOOD / STEEL	-
24	-	PANEL CAP 0.54" X 3.99" X 0.050"	GALV. STEEL	-
25	-	HAT-SHAPED EXPANDED METAL	GALV. STEEL	-
26	1277	STEEL HINGES ATTACHED W/ (4) 1/4" X 2" PFH SDS	STEEL	KASON
27	-	3700 SERIES RUBBASEAL SILICONE SEALANT (APPLIED AROUND EXTERIOR FRAME, OVER FASTENERS, AND OVER THE PANEL SEAMS)	SILICONE	KASON
28	-	1/2" THK. X 5" HEIGHT PLYWOOD BACKING, FULL WIDTH OF WALL PANEL	AC MARINE PLYWOOD	-
29	-	(2) LOCKING BARS (3/16" THK. X 3" HIGH X 57" LG.) W/ (4) EMERGENCY RELEASE WALL BRACKETS, ATTACHED W/ (4) MANUAL RELEASE 3/8" X 5-1/2" LOCKING BOLTS W/ TURN KNOB	STEEL	-
30	-	AUTOFROTH 9300A ISOCYANATE FOAM CORE	URETHANE	DENSITY 2.22 LBS/FT ³ , BASF CORP.
31	19-4770	PVC DOOR FRAME	PVC PLASTIC	JEANS' EXTRUSIONS, INC.
32	-	DOOR THRESHOLD	STEEL	-
33	-	INTERIOR ALUMINUM SKIN (0.080" THK. AT FLOOR INTERIOR, 0.040" THK. AT CORNER PANEL INTERIOR, 0.040" THK. AT WALL INTERIOR)	ALUM. 3003-H14	-
34	-	STEEL SKIN (0.022" THK. AT FLOOR EXTERIOR, 0.037" THK. AT ROOF INTERIOR/EXTERIOR, 0.048" THK. AT CORNER PANEL EXTERIOR, 0.048" THK. AT WALL EXTERIOR)	STEEL	Fu=46 KSI, Fy= 55 KSI
35	-	AUTOFROTH 100-B-1003 RESIN	RESIN	BASF CORP.

REVISONS	NO.	DATE	DESCRIPTION
	1	5/15/18	2017 FBC UPDATE

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

8501 SW 124 AVE.
SUITE 205A
MIAMI, FL 33183
P: 305.271.0117
F: 305.921.4786
www.MCYEngineering.com MCY.Engineering@Att.net

SINGLE AND COMBO REINF. BOXES

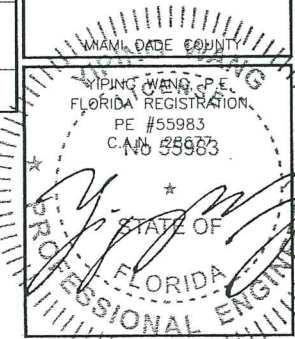
ARCTIC INDUSTRIES, INC.

9731 NW 114TH WAY, MEDLEY, FL 33178
Phone (305) 883-5581 Fax (305) 883-4651

BOM	
DATE	12/23/16
SCALE	AS NOTED
DRAWN	T.G.
PROJECT	MCY15-142
DRAWING NO.	
AD15-74	
SHEET 11 OF 11	

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 22-0414-01
Expiration Date 04/30/2027
By Hugh A. Mah
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 18-0522-09
Expiration Date 04/30/2022
By Hugh A. Mah
Miami Dade Product Control



MAY 16 2018