



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

York / Johnson Controls, Inc.
100 JCI Way
York, PA 17406

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: Solution XT Rooftop Air Handling Unit

APPROVAL DOCUMENT: Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, including 5.1 & 5.2 prepared by Al-Farooq Corporation, dated 08/03/2006, last revision #J dated 08/02/2023, signed and sealed by Jalal Farooq, P.E., on 08/03/2023, bearing the Miami-Dade County Product Control Revision 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, York, PA or Albany, MO 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 #23-1107.02 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, E-5 & E-6 as well as approval document mentioned above.

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



Helmy A. Makar
04/10/25

NOA No. 25-0203.03
Expiration Date: 12/09/2029
Approval Date: 04/10/2025
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-0816.03

A. DRAWINGS

1. *Drawing No. MT, titled "Solution XT Rooftop AHU Assembly", sheets 1 through 19 of 19, prepared by Mechanical Engineering Solutions, Inc., signed and sealed by Mark E. Awmiller, P.E. on November 18, 2004*

B. TESTS

1. *Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Solution XT Air Handling Unit, prepared by Architectural Testing, Test Report No. 47804.01-122-18, dated July 12, 2004, signed and sealed by Steven M. Urich, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Die Drawings.*

F. STATEMENTS

1. *Statement letter of conformance, dated August 6, 2004, signed and sealed by Mark E. Awmiller, P.E.*
2. *Statement letter of no financial interest, dated August 6, 2004, signed and sealed by Mark E. Awmiller, P.E.*

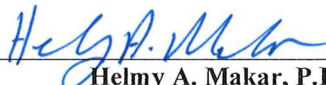
2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0130.03

A. DRAWINGS

1. *Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, prepared by Al-Farooq Corp., dated 08/03/2006, last revision #A dated 07/06/2007, signed and sealed by Humayoun Farooq, P.E. on 11/05/07.*

B. TESTS

1. *Test reports on 1) Uniform Static Air Pressure Test, per TAS 202-94, 2) Large Missile Impact Test per TAS 201-94, 3) Cyclic Wind Pressure per TAS 203-94 along with marked-up drawings and installation diagram of Solution XT Air Handling Unit, prepared by Architectural Testing, Test Report No. 54612.01-122-18, dated 09/20/05, signed and sealed by Steven M. Urich, P.E.*


Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 25-0203.03
Expiration Date: 12/09/2029
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C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Die Drawings.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0610.16

A. DRAWINGS

1. *Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, prepared by Al-Farooq Corp., dated 08/03/2006, last revision #B dated 03/03/2009, signed and sealed by Arshad Viqar, P.E., on 08/26/2009.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Die Drawings.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0218.04

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

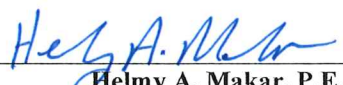
1. *None.*



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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0215.07**
- A. DRAWINGS**
1. *Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, prepared by Al-Farooq Corporation, dated 08/03/2006, last revision #D dated 08/14/2012, signed and sealed by Javad Ahmad, P.E., on 08/28/2012.*
- 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. *Statement letter of conformance to FBC 2010 Edition, dated January 20, 2012, signed and sealed by Javad Ahmad, P.E.*
- 6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 14-0220.01**
- 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.*



Helmy A. Makar, P.E., M.S.
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 15-1124.10

A. DRAWINGS

1. *Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, prepared by Al-Farooq Corp., dated 08/03/2006, last revision #E dated 08/22/2015, signed and sealed by Javad Ahmad, P.E., on 08/04/2016.*

B. TESTS

1. *Clarification letter from Intertek, dated 06/29/16, signed by Timothy J. McGill.*

C. CALCULATIONS

1. *Calculation titled AFC 15-1023, dated August 05, 2015, 11 pages, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., on 11/09/2015.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Statement letter of conformance to FBC 2014 Edition, dated August 05, 2015, signed and sealed by Javad Ahmad, P.E.*

8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 19-0213.02

A. DRAWINGS

1. *Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, prepared by Al-Farooq Corp., dated 08/03/2006, last revision #F dated 09/18/2018, signed & sealed by Javad Ahmad, P.E., on 10/04/2018.*

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. *Statement letter of conformance to FBC 2017 Edition, dated Sep. 07, 2018, signed and sealed by Javad Ahmad, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 19-1029.09

A. DRAWINGS

1. *Drawing #06-07, titled Solution XT Rooftop Air Handling Unit, sheets 1 through 17 of 17, including 5.1 & 5.2 by Al-Farooq Corporation on 08/03/06, last revision #H dated 12/23/19, signed & sealed by Javad Ahmad, P.E., on 12/23/19.*

B. TESTS

1. *Test reports on 1) Uniform Static Air Pressure, per TAS 202-94, 2) Cyclic Wind Pressure per TAS 203-94 along with marked-up drawings and installation diagram of Solution XT Rooftop Air Handling Unit, prepared by Intertek, Test Report No. J5578.01-109-18, dated 10/23/19, signed & sealed by Daniel C. Culbert, P.E.*

C. CALCULATIONS

1. *Calculation "Solution XT Rooftop Air Handling Unit" dated 10/24/19, 5 pages, issued by Al-Farooq Corp., signed & sealed by Javad Ahmad, P.E., on 10/25/19.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Statement letter of conformance to FBC 2017 Edition, dated 10/25/2018, signed and sealed by Javad Ahmad, P.E.*

10. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 21-0615.10

A. DRAWINGS

1. *Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, including 5.1 & 5.2 prepared by Al-Farooq Corporation, dated 08/03/2006, last revision #I dated 05/20/2021.*

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. *Statement letter of conformance to FBC 2020 Edition, dated 05/17/2021, signed and sealed by Jalal Farooq, P.E.*


Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

11. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 23-1107.02

A. DRAWINGS

1. *Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, including 5.1 & 5.2 prepared by Al-Farooq Corporation, dated 08/03/2006, last revision #J dated 08/02/2023, signed and sealed by Jalal Farooq, P.E., on 08/03/2023.*

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. *Statement letter of conformance to FBC 2023 Edition, dated 08/03/2023, signed and sealed by Jalal Farooq, P.E.*

12. 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. *Statement letter of conformance to FBC 2023 Edition, dated 08/19/2024, signed and sealed by Jalal Farooq, P.E.*

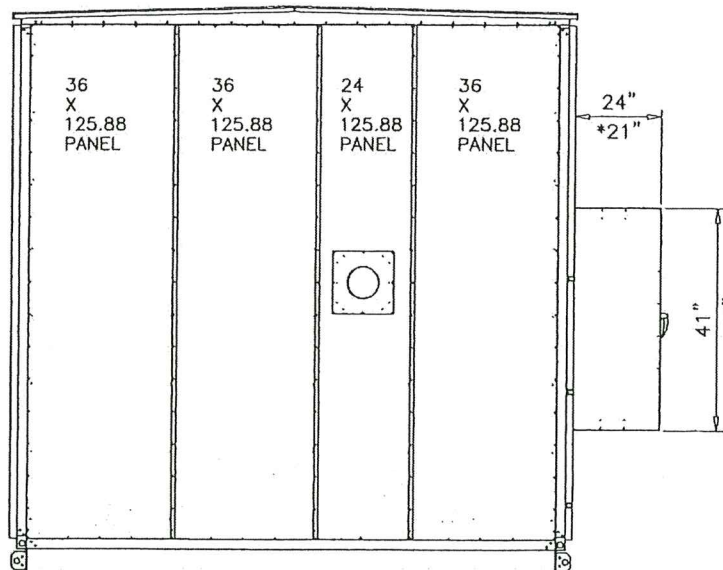


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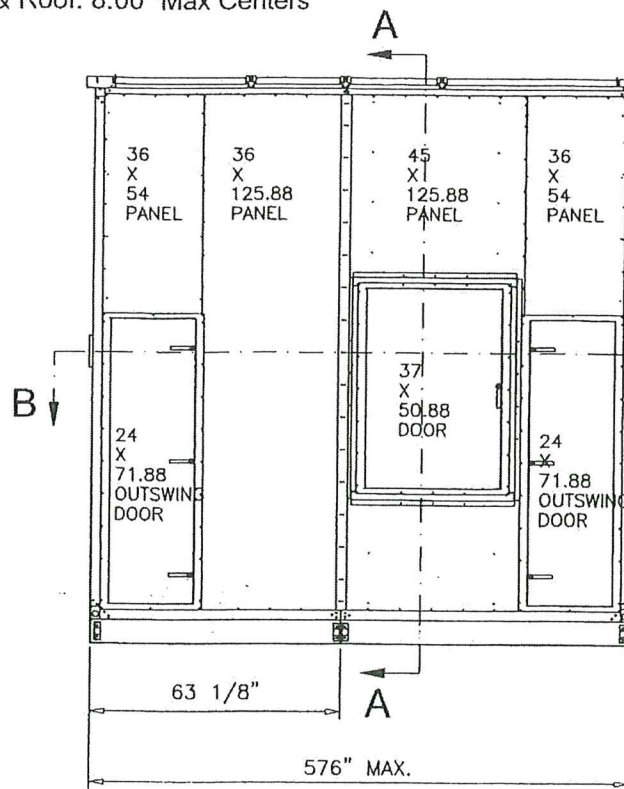
Panels:
Sides & Ends: 16 Ga Outer & Liner
Floor & Roof: 18 Ga Outer & Liner

Fasteners:
Sides Walls: 4.00" Max Centers
Floor & Roof: 8.00" Max Centers

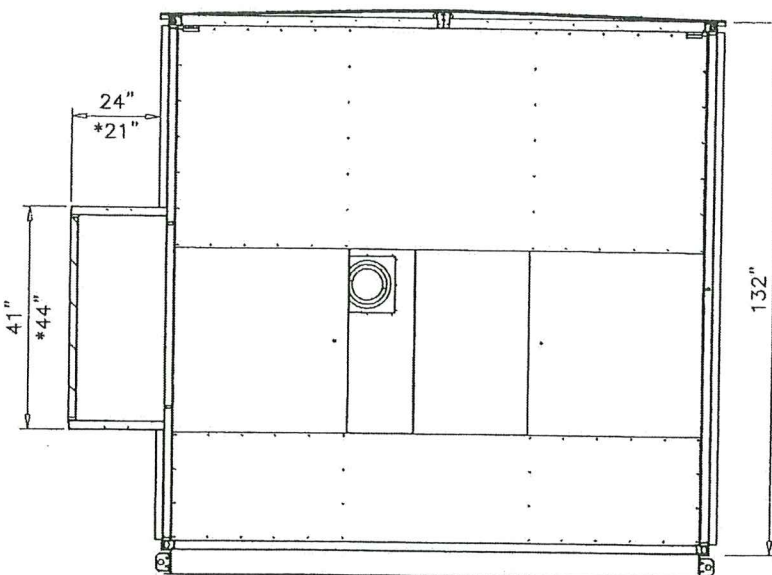
Inside Supports:
Sides: 4 vertical 16 GA Hat Channel per side 086-02108-358
Ends: 3 vertical 12 GA Hat Channel per end 086-02108-869



SIDE ELEV.



FRONT ELEV.



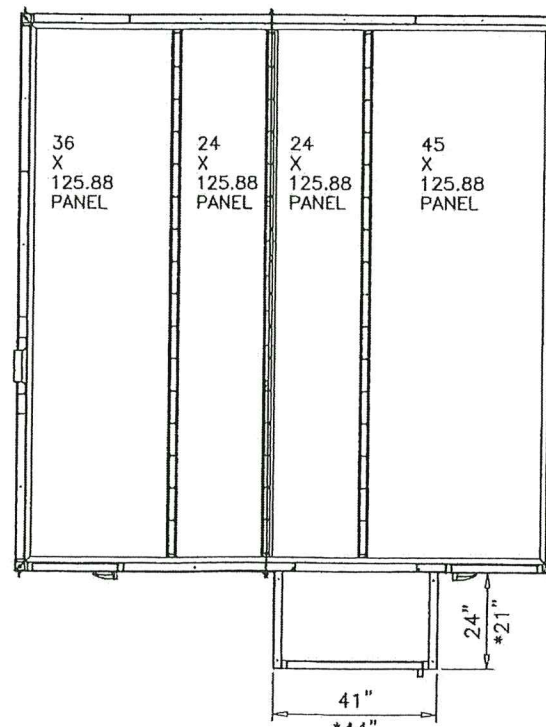
SECTION A-A

GENERAL NOTES

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION A-36 AND STEEL SHEET SHALL CONFORM TO ASTM DESIGNATION A-653, GALVANIZED WITH A COATING DESIGNATION OF G90. MIN. Fy = 48,380 PSI.
3. ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
4. ELECTRICAL AND MECHANICAL DETAILS ARE NOT PART OF THIS APPROVAL.
5. POLYURETHANE SHALL BE RIGID FOAM MIN. DENSITY #2 C.F.
6. MAX. FLAME SPREAD RATING = 5 AS PER ASTM E-84. SMOKE DEVELOPED INDEX = 205. SPONTANEOUS-IGNITION TEMPERATURE = 869°F.
7. ALL STEEL TO BE SHOP PRIMED BEFORE ASSEMBLY.
8. MIN. SOIL BEARING CAPACITY = 2500 PSF.
9. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
10. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.
- *11. ALTERNATIVE CONSTRUCTED MOTOR CONTROL ENCLOSURE SEE SHEET 17 FOR DETAILS.

ALLOWABLE DESIGN LOAD		
COMPONENT	POSITIVE	NEGATIVE
WALL	65 PSF	65 PSF
ROOF	65 PSF	65 PSF

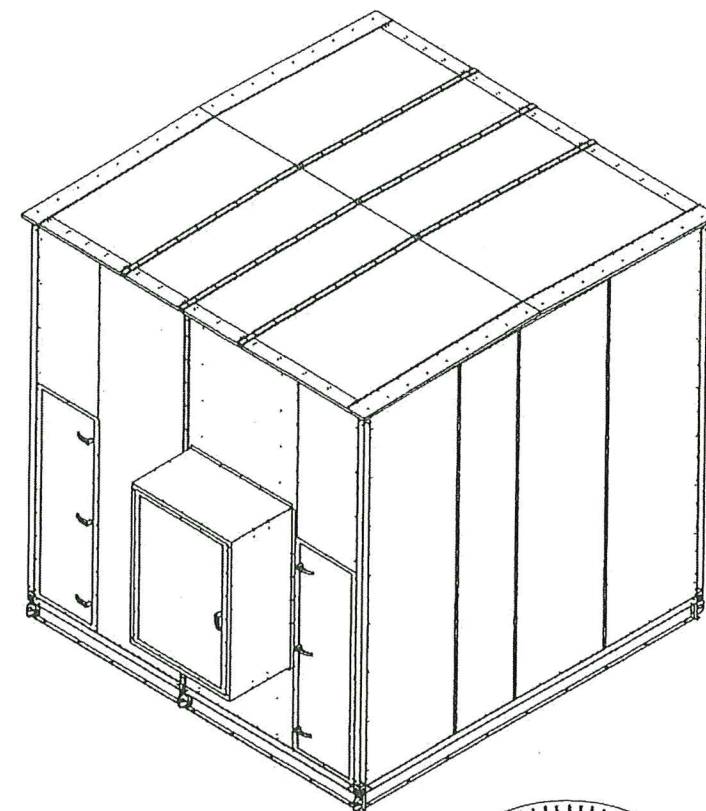
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 25-0203.03
Expiration Date 12/09/2029
By *H. G. A. Miller*
Miami Data Product Control



SECTION B-B

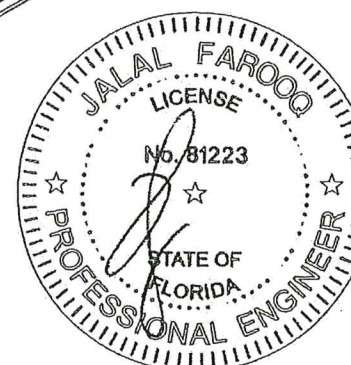
PLAN VIEW

ROOF PANELS AND FLOOR PANELS
ARE SAME LENGTH IN NOA.



AUG 03 2023

PRODUCT REVISED
us complying with the Florida
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Miami Data Product Control



SOLUTION XT ROOFTOP AIR HANDLING UNIT

York/Johnson Controls Inc.
100 JCI Way
York, PA. 17406
TEL. (717) 978-3326

no	date	by	description
G	10.22.19		ROOF OPTION ADDED
H	12.23.19		MANUF. ADDRESS REV.
I	05.20.21		UPDATED TO 2020 FBC
J	08.02.23		UPDATED TO 2023 FBC

date:	08-03-06
scale:	1/4"=1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.
06-07

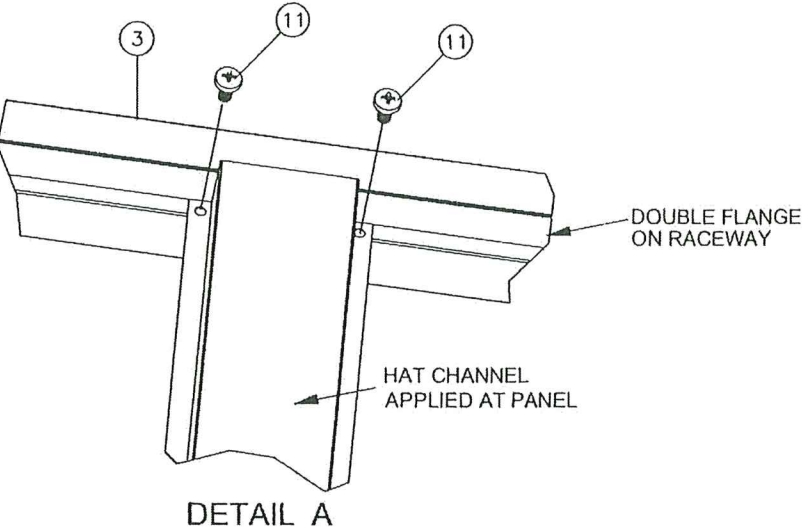
sheet 1 of 17

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

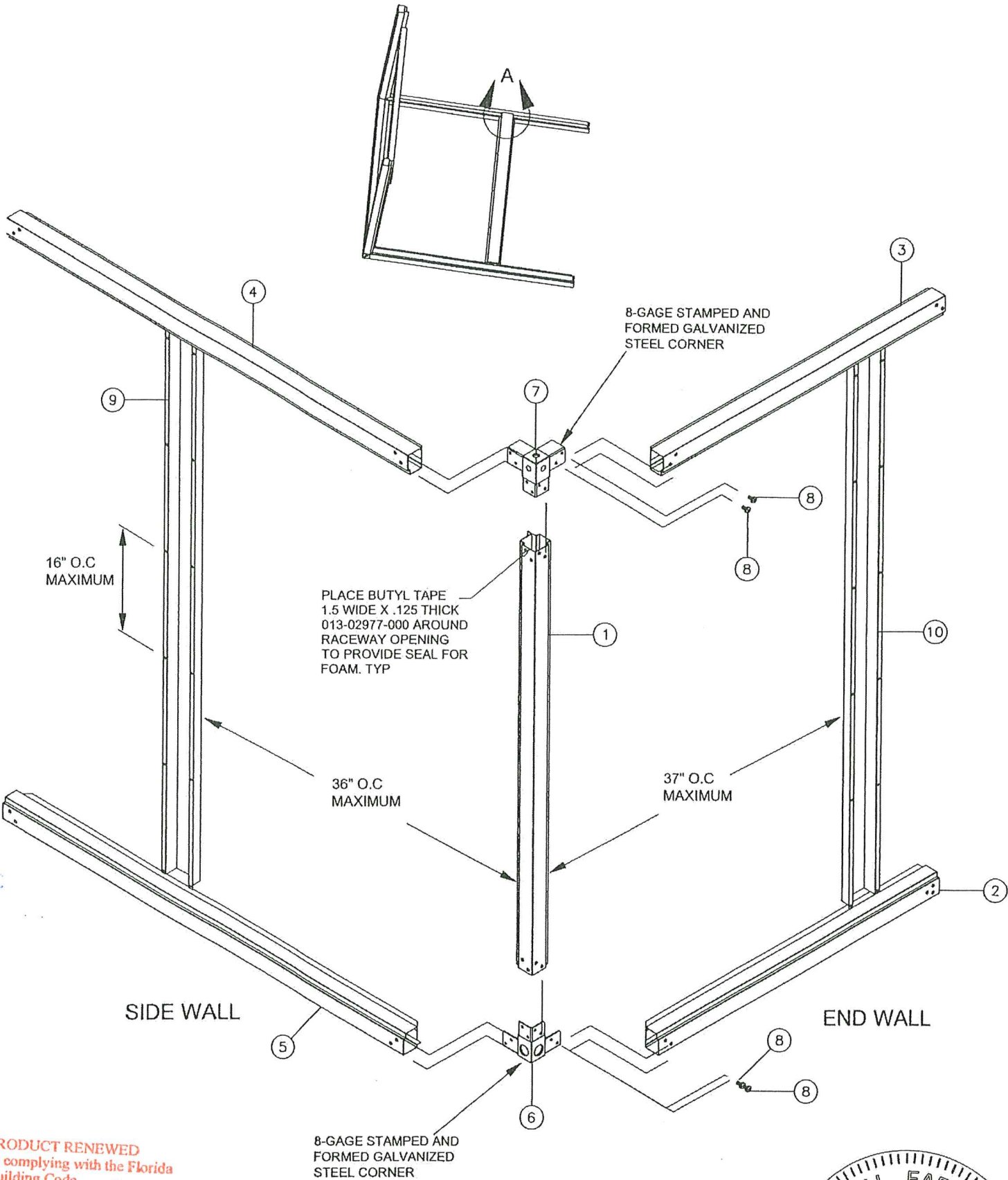
COOLER\06-07YIC

- Corner Assembly Instructions:
- 1) Attach DOA Raceway (2) with corner connector (6) using hardware (8) - 2 Screws
 - 2) Attach End Raceway (5) with corner connector (6) using hardware (8) - 2 Screws
 - 3) Attach Vertical Raceway (1) to corner connector (6) using hardware (8) - 4 Screws
 - 4) Attach Corner connector (7) to vertical raceway (1) using hardware (8) - 4 Screws
 - 5) Attach DOA Raceway (3) to corner connector (7) using hardware (8) - 2 Screws
 - 6) Attach End Raceway (4) to corner connector (7) using hardware (8) - 2 Screws
 - 7) Attach Side Hat Channel (9) to Upper and Lower Raceway (4) & (5) Using Hardware (11) - 4 Screws
 - 8) Attach Front Hat Channel (10) to Upper and Lower Raceway (2) & (3) Using Hardware (11) - 4 Screws

Three other corners are attached in the same manner.



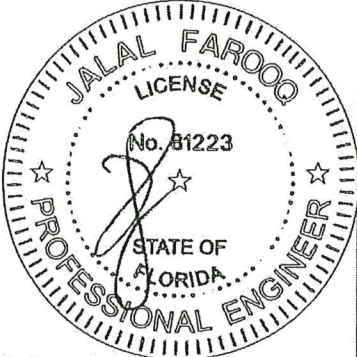
Parts List		
ITEM	QTY	DESCRIPTION
1	1	Vertical Raceway
2	1	FIA Bottom Raceway
3	1	FIA Top Raceway
4	1	End Top Raceway
5	1	End Bottom Raceway
6	1	Bottom Corner Assembly
7	1	Top Corner Assembly
8	6	Screw, hex socket button head 3/8-16 x 3/4" zinc plated
9	2	Side Wall Hat Channel
10	2	End Wall Hat Channel
11	2	Screw, panhead, 1/4-14x1" zinc plated



PRODUCT RENEWED
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Expiration Date 12/09/2029
By *Helga A. McLean*
Miami Data Product Control

CORNER ASSEMBLY
& INTERNAL FRAMING

AUG 03 2023
PRODUCT REVISED
as complying with the Florida
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Expiration Date 12/09/2024
By *Helga A. McLean*
Miami Data Product Control



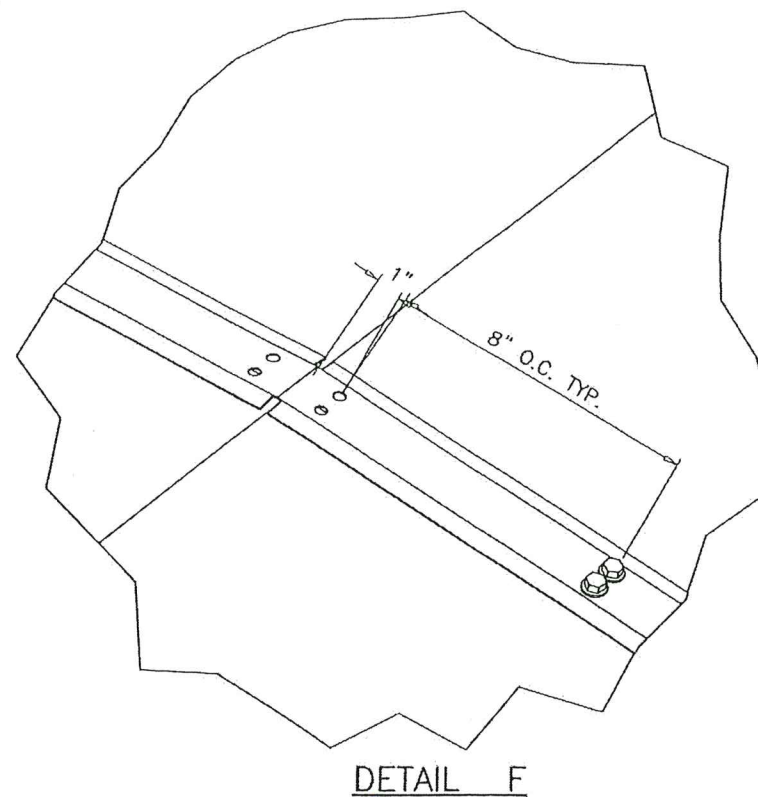
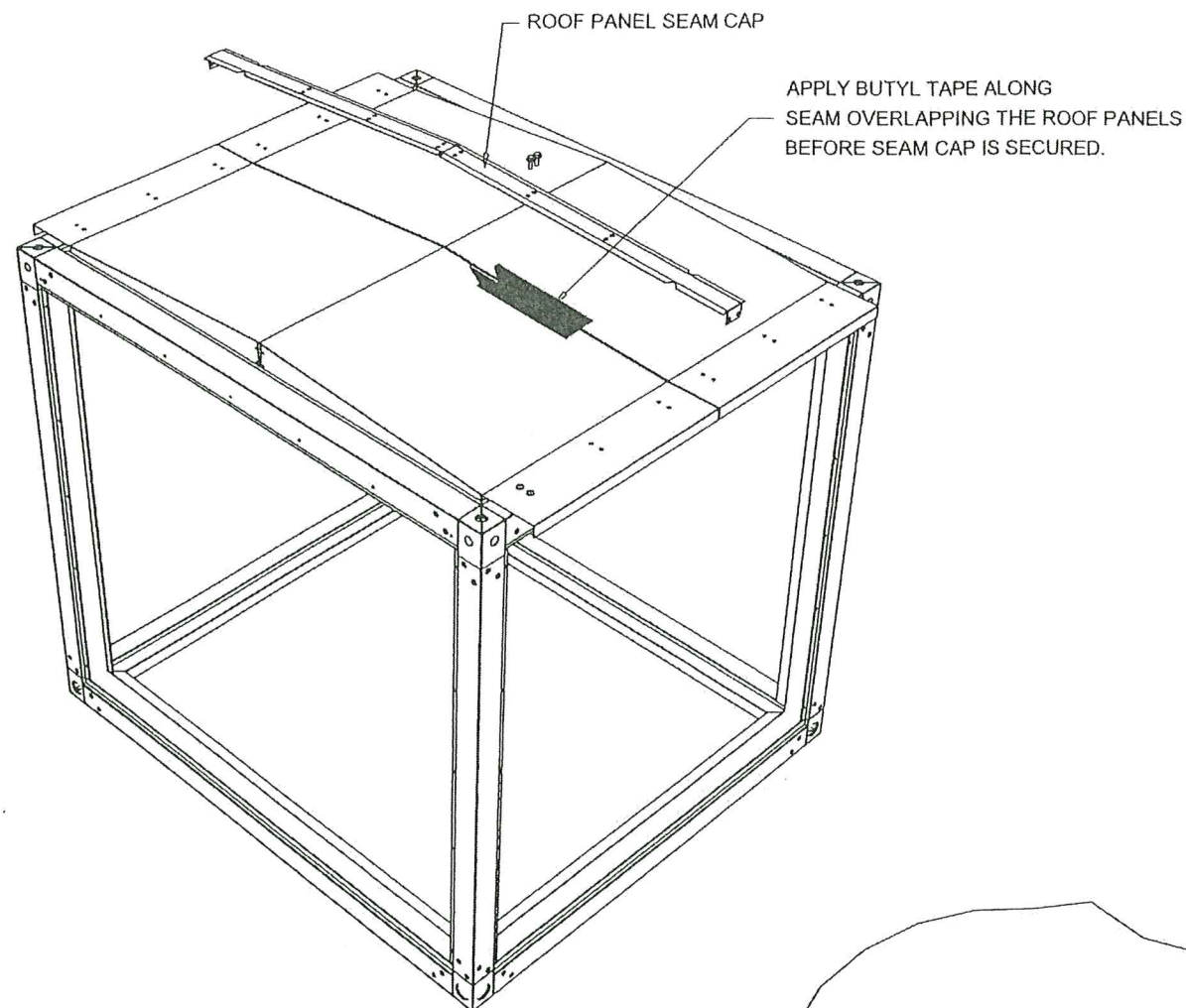
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
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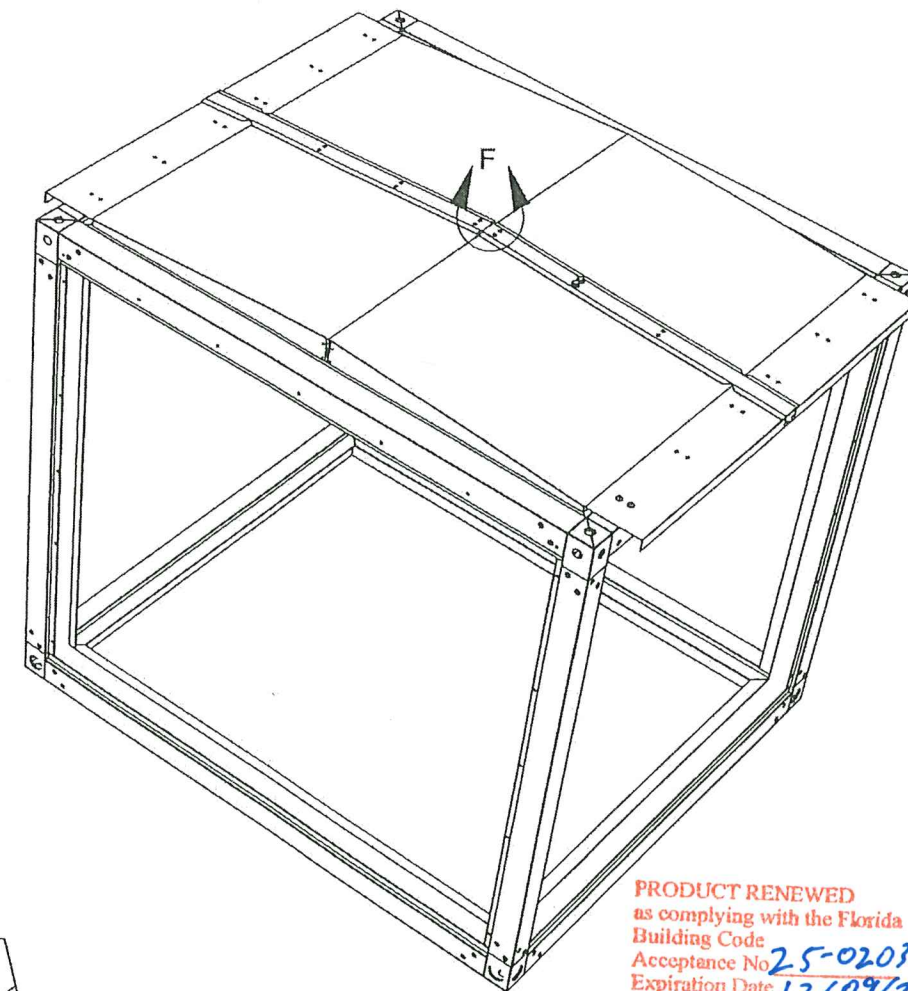
Revisions:		no	date	by	description
G	H	I	J	K	L
NO CHANGE THIS SHEET	MANUF. ADDRESS REV.	EDITORIAL CHANGES ONLY	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET

date: 08-03-06
scale: 1/4"=1'-0"
dr. by: TARIQ
chk. by:
drawing no. 06-07
sheet 2 of 17

STANDARD METAL THICKNESS		
METAL GAGE	MIN. THICKNESS (IN.)	YIELD STRENGTH MINIMUM (KSI)
8	0.157	33.0
10	0.126	33.0
12	0.097	33.0
14	0.070	45.0
16	0.056	45.0
18	0.045	45.0
20	0.034	45.0



ROOF SEAM
CAP ASSEMBLY
OPTION #1

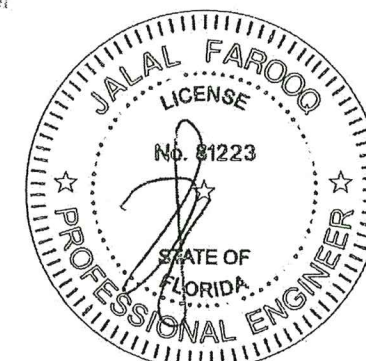


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By *H. A. M. M.*
Miami Design Product Control

AFTER BUTYL TAPE IS APPLIED AS SHOWN
ABOVE SECURE SEAM CAP AS SHOWN IN
DETAIL F WITH SCREW, TEK, EPDM, PLTD, 0.25-14 X 1". ALONG TOP
AND INTO SIDE AS WELL.

PRODUCT REVISED
as complying with the Florida
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AUG 03 2023



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(C.A.N. 3538)

SOLUTION XT ROOFTOP AIR HANDLING UNIT

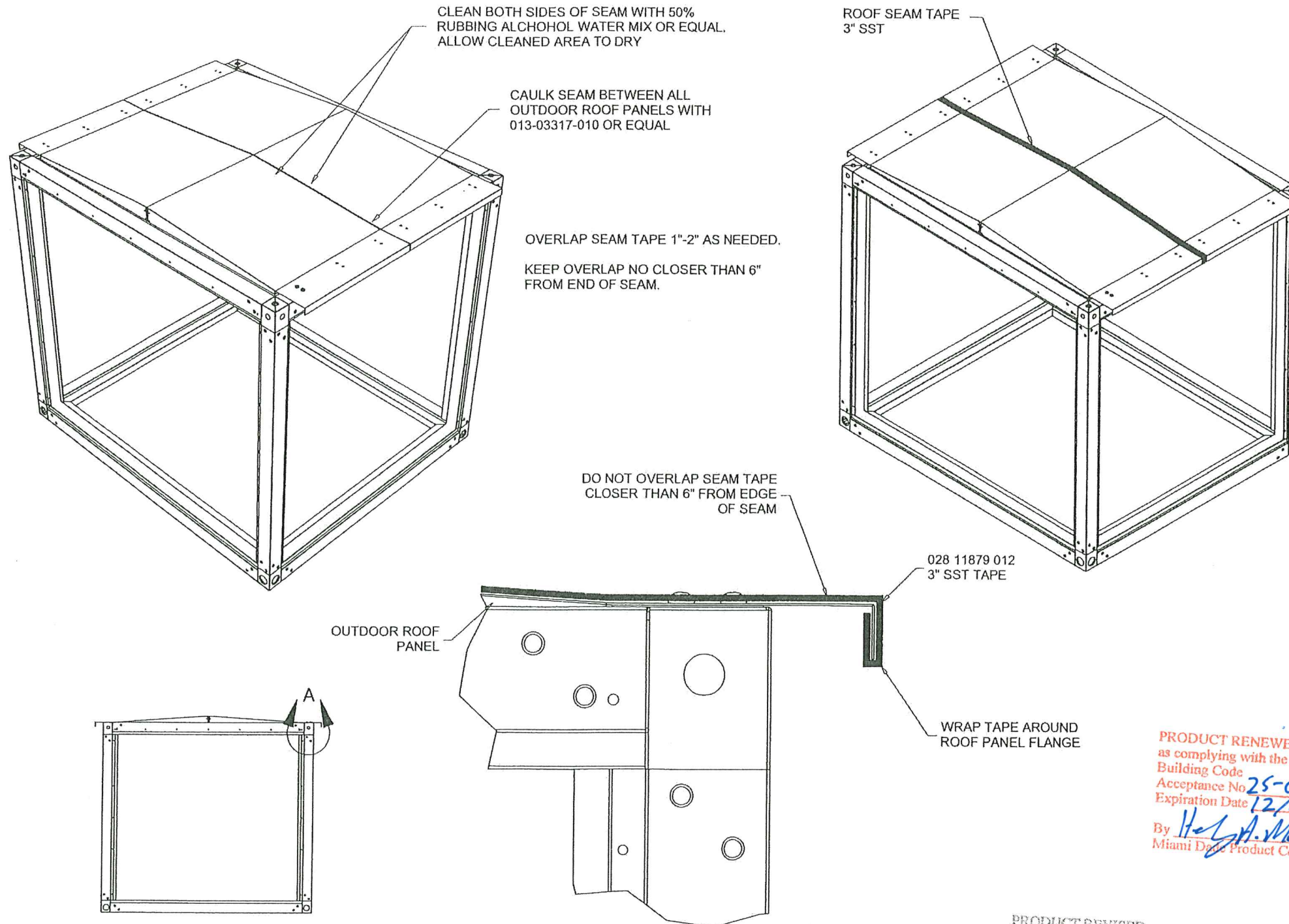
York/Johnson Controls Inc.
100 JCI Way
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TEL. (717) 978-3326

no.	date	by	description
G	10.22.19		NO CHANGE THIS SHEET
H	12.23.19		MANUF. ADDRESS REV.
I	05.20.21		EDITORIAL CHANGES ONLY
J	08.02.23		NO CHANGE THIS SHEET

date: 08-03-06
scale: 1/4"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. 06-07
sheet 3 of 17

COOLER 06-07YIC



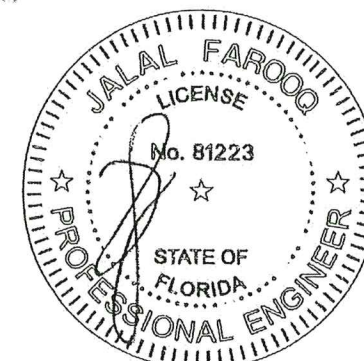
DETAIL A

STANDARD METAL THICKNESS		
METAL GAGE	MIN. THICKNESS (IN.)	YIELD STRENGTH MINIMUM (KSI)
8	0.157	33.0
10	0.126	33.0
12	0.097	33.0
14	0.070	45.0
16	0.056	45.0
18	0.045	45.0
20	0.034	45.0

ROOF SEAM
TAPE ASSEMBLY
OPTION #2

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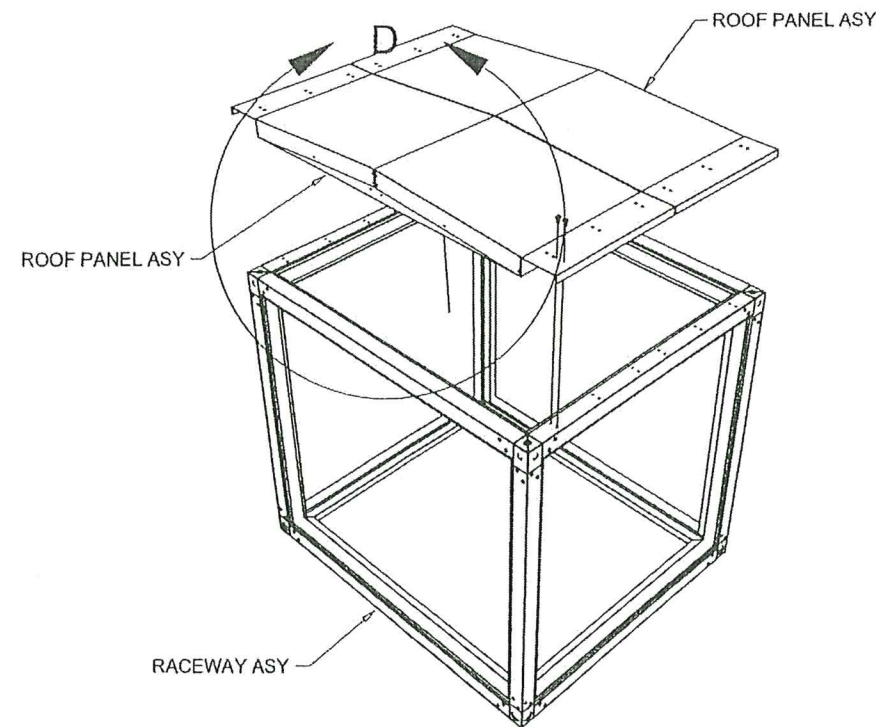
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SOLUTION XT ROOFTOP AIR HANDLING UNIT
York/Johnson Controls Inc.
100 JCI Way
York, PA. 17406
TEL. (717) 978-3326

date: 08-03-06		revisions:	
scale: -	no date	by	description
dr. by: TARIQ	G 10.22.19		NO CHANGE THIS SHEET
	H 12.23.19		MANUF. ADDRESS REV.
	I 05.20.21		EDITORIAL CHANGES ONLY
	J 08.02.23		NO CHANGE THIS SHEET
chk. by:			
drawing no.			
06-07			
sheet 4 of 17			

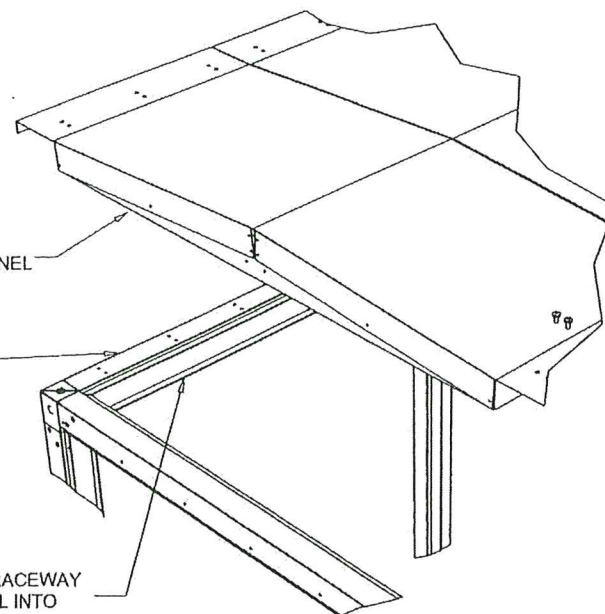
COOLER\06-07YIC



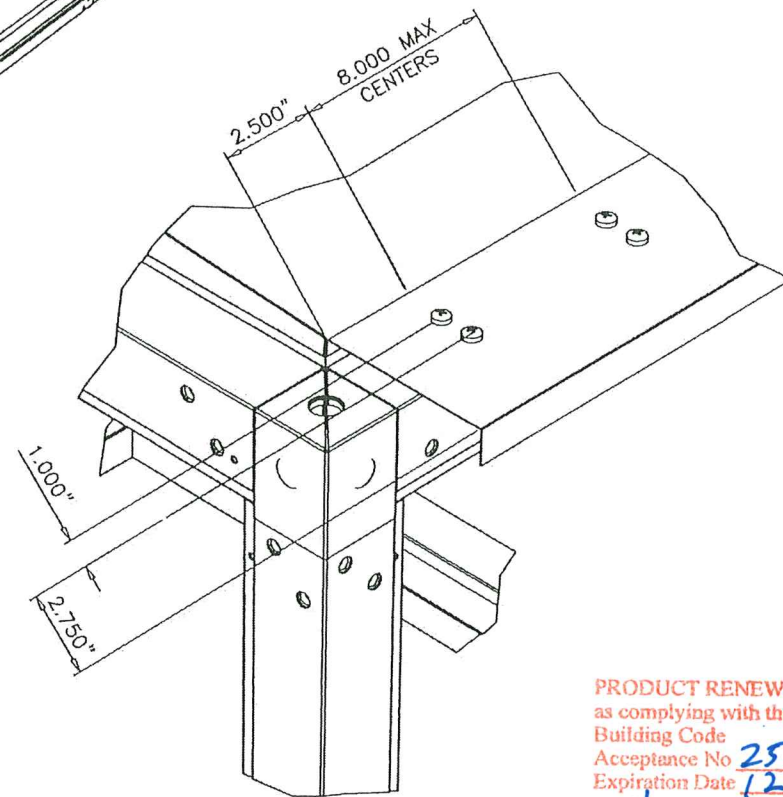
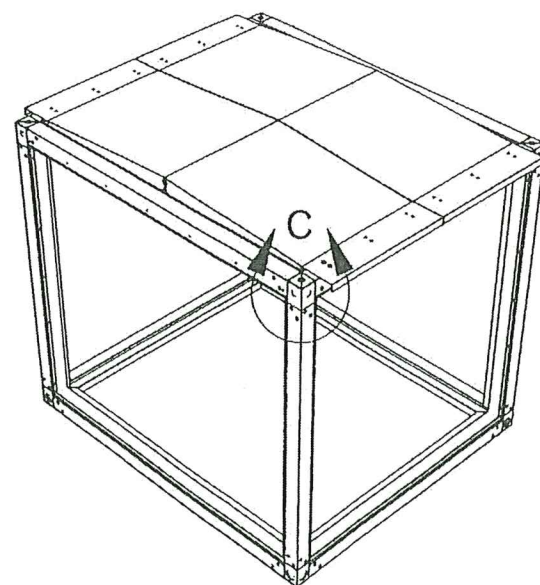
APPLY NEOPRENE 028-11867-000 TO BOTH SIDES OF ROOF PANEL ASY BEFORE PLACING ROOF PANEL IN RACEWAY ASY.

APPLY BUTYL TAPE 013-02977-000 TO RACEWAY FLANGE BEFORE PLACING ROOF PANEL INTO RACEWAY ASY.

APPLY BUTYL TAPE 013-02976-000 TO RACEWAY FLANGE BEFORE PLACING ROOF PANEL INTO RACEWAY ASY.



DETAIL D



DETAIL C

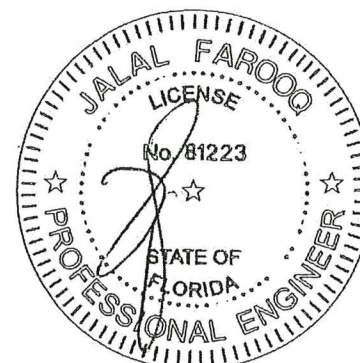
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AFTER APPLYING NEOPRENE AND BUTYL TAPE AS SHOWN IN DETAIL D, PLACE ROOF PANEL INTO RACEWAY ASY AND SECURE AS SHOWN IN DETAIL C USING SCREW TAP TY A PH 14-10 1/4 X 3/4 PAN HEAD PHILLIPS (#1), TYPE A, ZINC PLATED

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ROOF PANEL
ASSEMBLY

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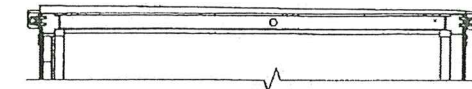
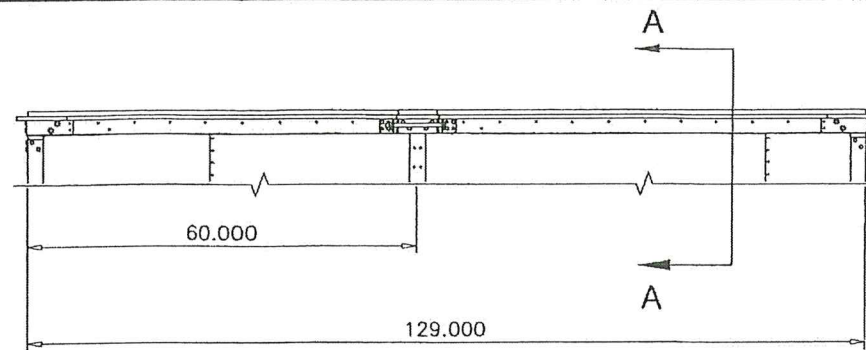
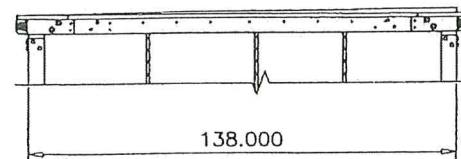
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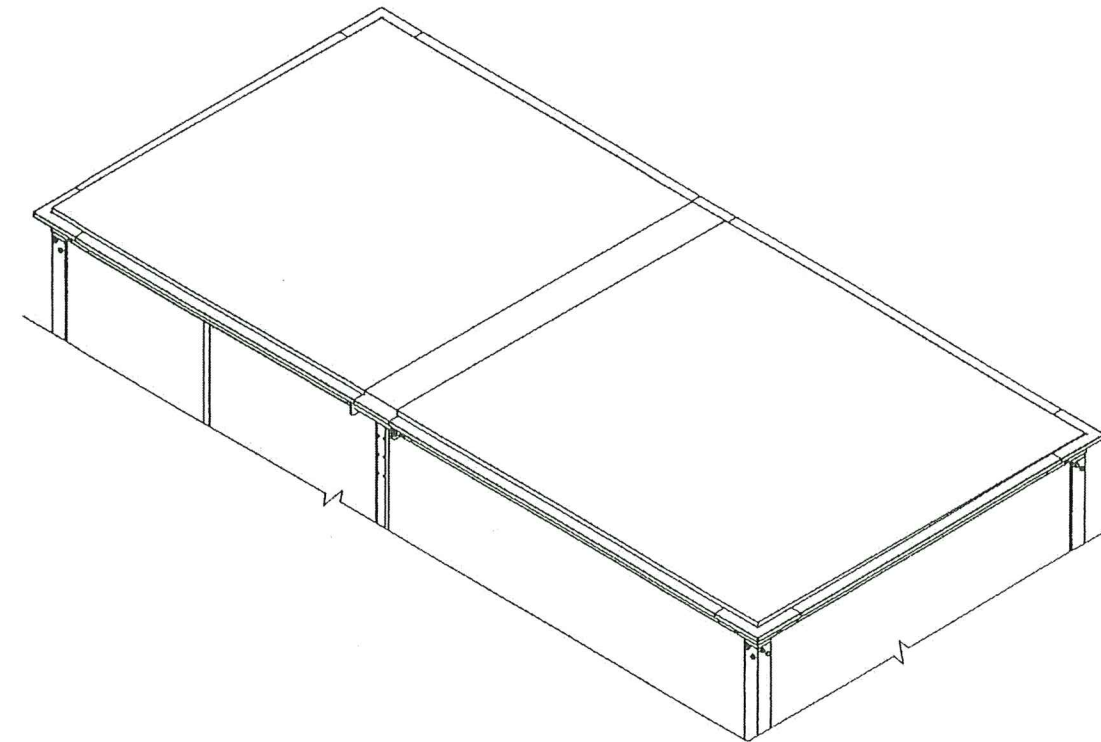
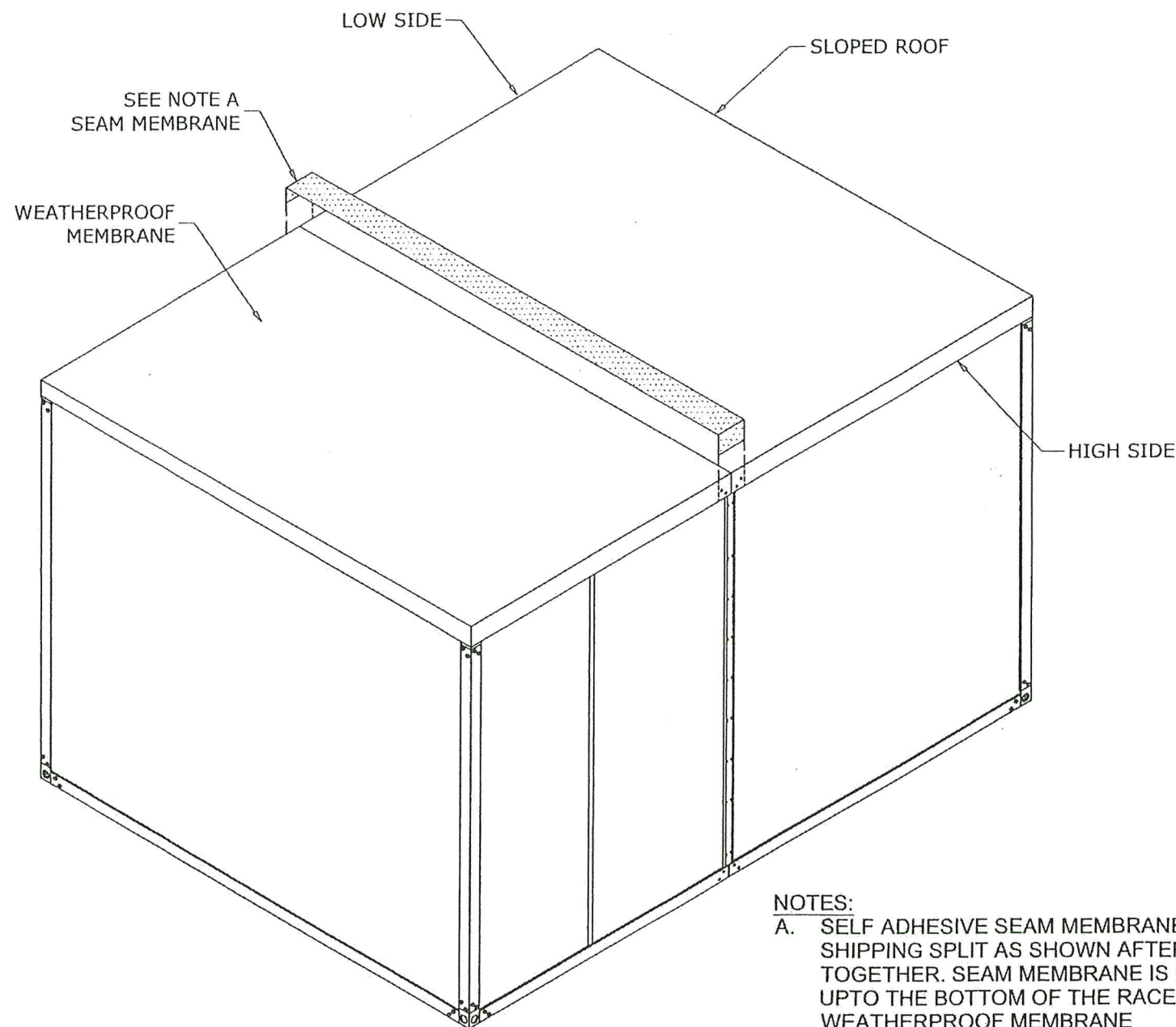
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dr. by: TARIQ
chk. by:

drawing no.
06-07
sheet 5 of 17

COOLER 06-07YIC



SECTION A-A

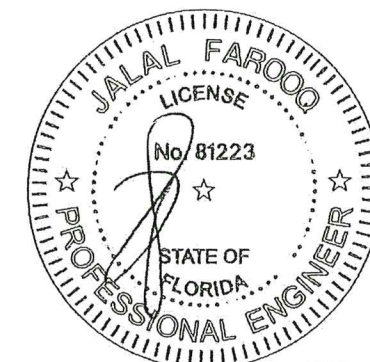


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MEMBRANE ROOF OVERLAY SYSTEM
OPTION #2

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- NOTES:
- A. SELF ADHESIVE SEAM MEMBRANE IS APPLIED OVER THE SHIPPING SPLIT AS SHOWN AFTER THE SKIDS ARE PULLED TOGETHER. SEAM MEMBRANE IS FOLDED OVER THE EDGE UPTO THE BOTTOM OF THE RACEWAY. APPLIED OVER WEATHERPROOF MEMBRANE

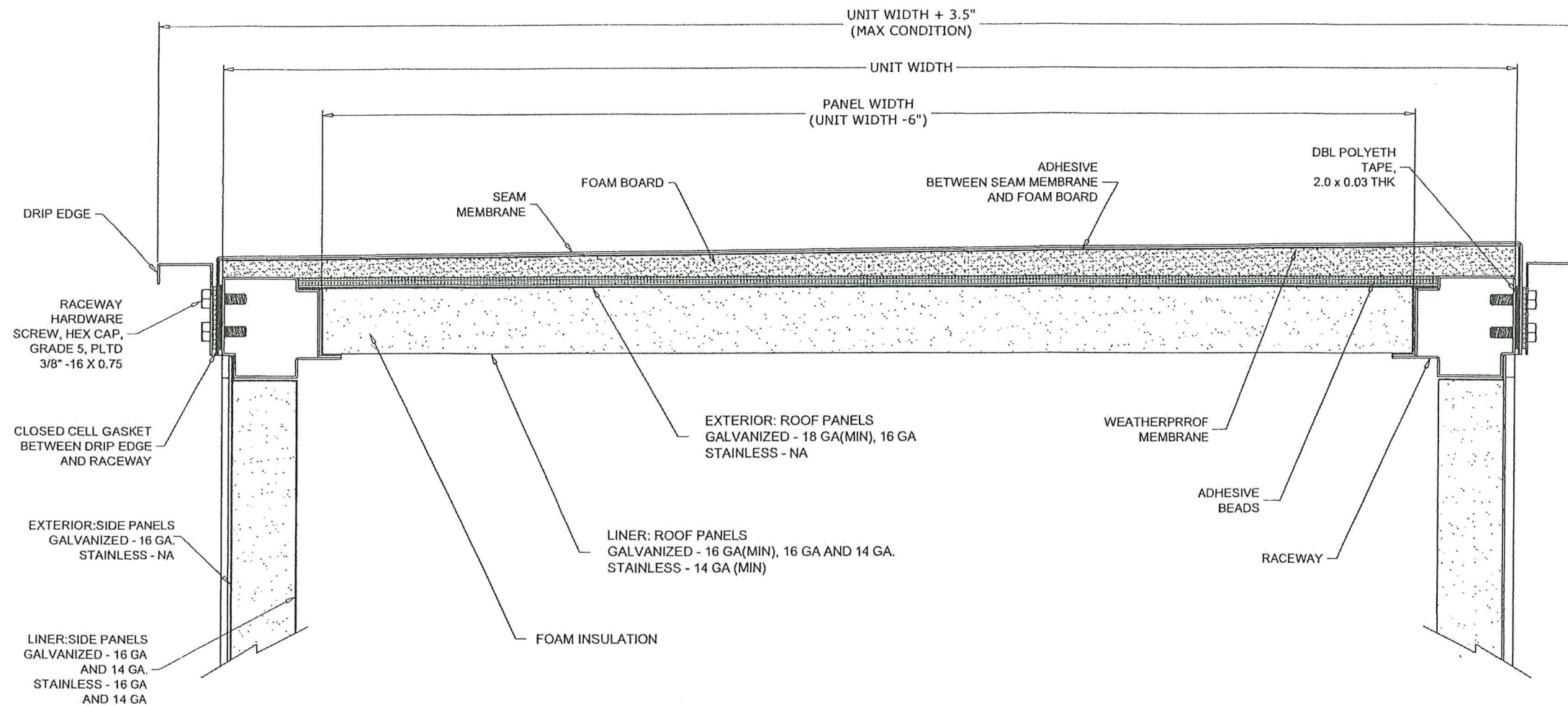
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drawing no.	06-07
sheet	5.1 of 17



NOTES:

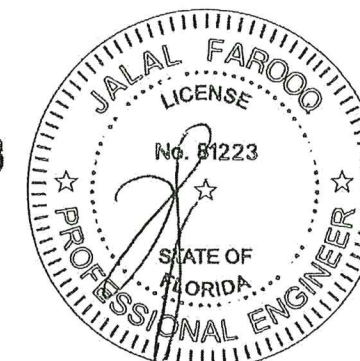
1. ROOF PANELS, FLOOR PANELS AND WALL PANELS ARE 2.00" THICK DOUBLE WALL CONSTRUCTION. EXTERIOR ROOF AND FLOOR PANEL CONSTRUCTION OF 18 GAGE (MIN) GALVANIZED STEEL 16 GAGE (MIN) FOR WALL PANELS. THE INTERIOR LINER SHALL BE CONSTRUCTED OF 18 GAGE (MIN) FOR ROOF AND FLOOR PANELS AND 16 GAGE (MIN) FOR WALLS.
2. ACCESS DOORS ARE 2.00" THICK, DOUBLE WALL CONSTRUCTION, OF GALVANIZED STEEL SHEET. THE INTERIOR AND EXTERIOR LINER CONSTRUCTION SHALL CONSIST OF 20 GAGE SHEET STEEL. ADDITIONALLY, AN 18 GAGE EXTERIOR PANEL SHALL BE SECURED TO THE ACCESS DOOR WITH #14 x 3/4" SELF TAPPING SHEET METAL SCREWS.
3. INSULATION IS SPRAY INJECTED CLOSED-CELL FOAM.

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MEMBRANE ROOF OVERLAY SYSTEM OPTION #2

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SOLUTION XT ROOFTOP AIR HANDLING UNIT

York/Johnson Controls Inc.

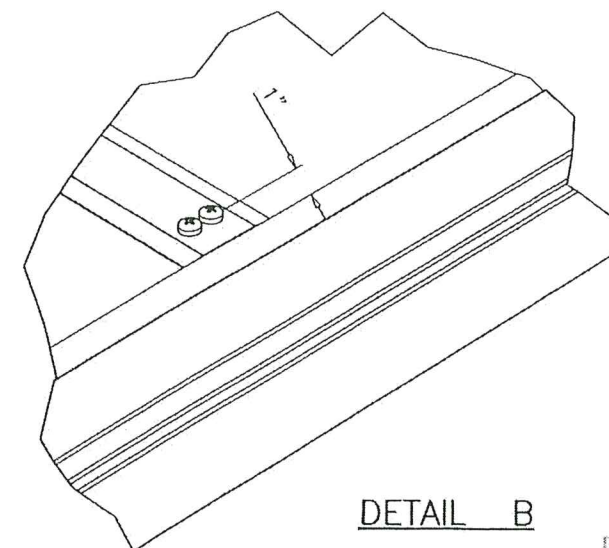
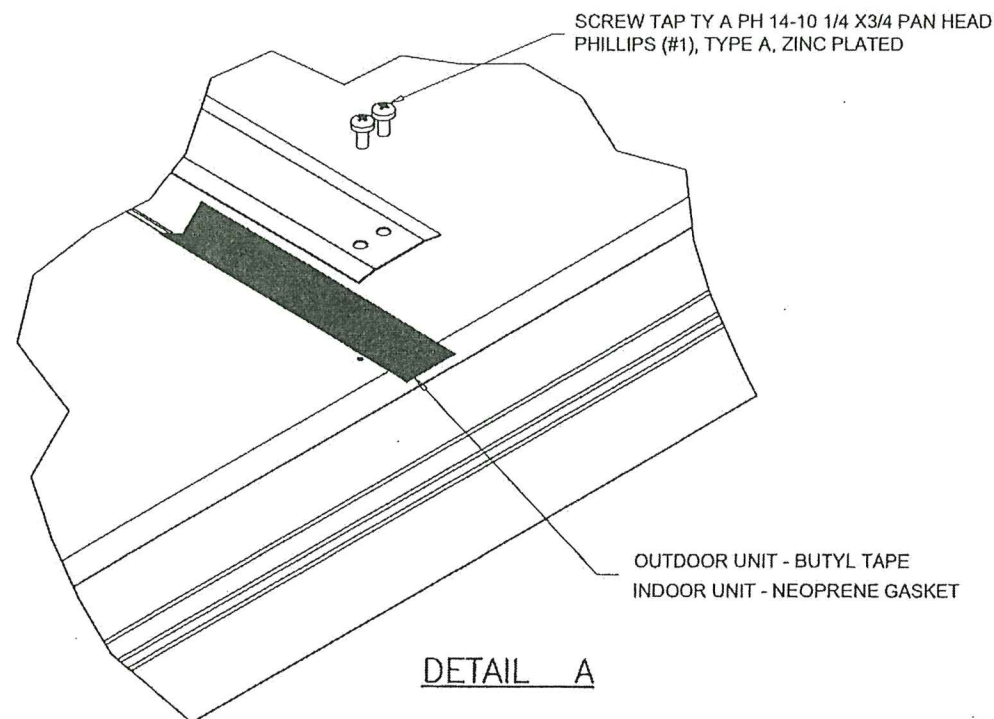
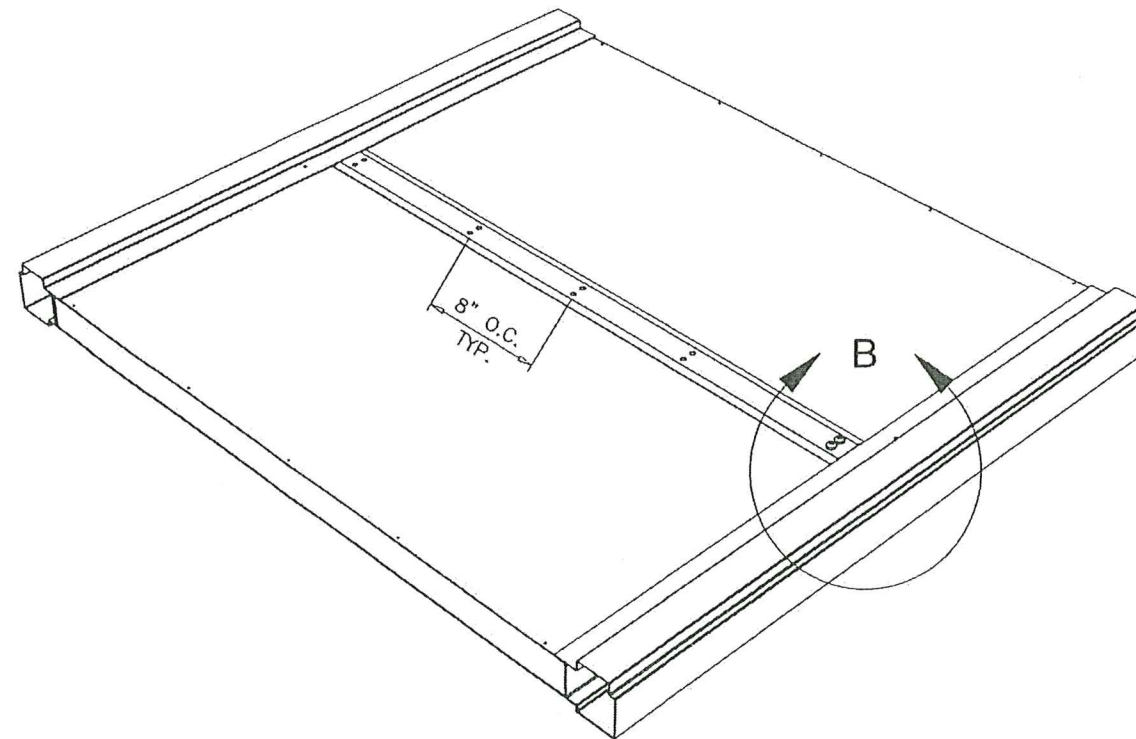
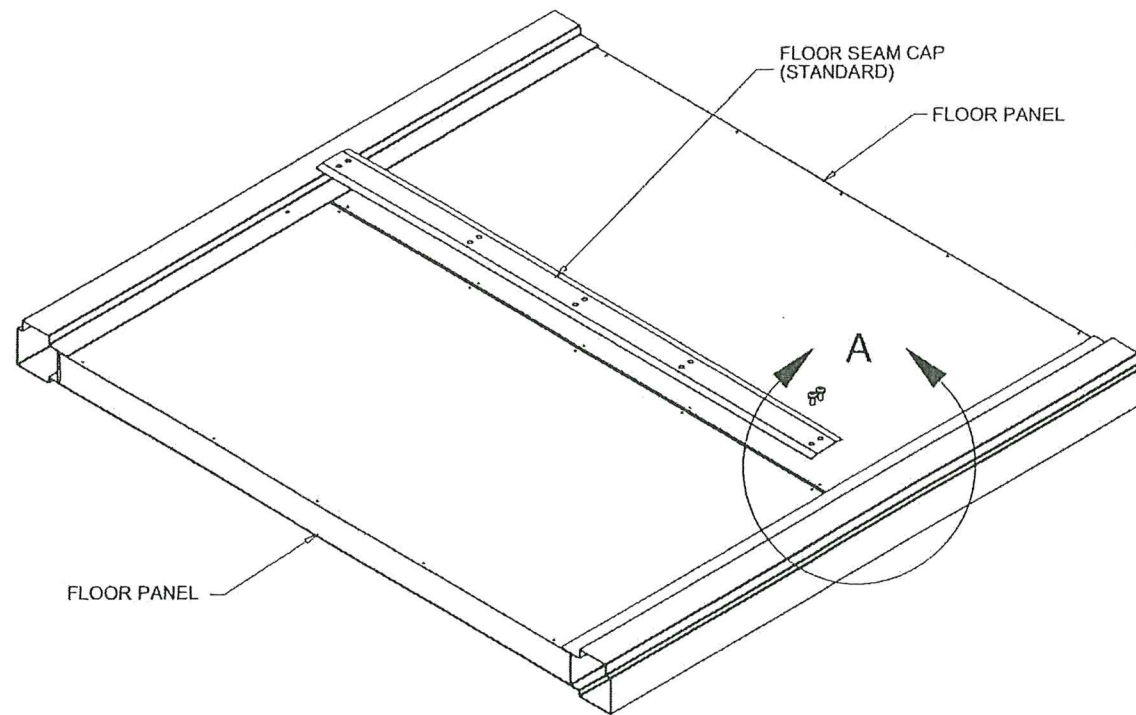
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sheet 5.2 of 17



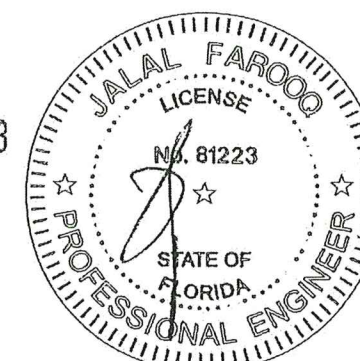
STANDARD FLOOR PANEL SEAM CAP ASY
APPLY GASKET / BUTYL TAPE ALONG FLOOR PANEL SEAM BEFORE SECURING FLOOR PANEL SEAM CAP WITH SCREWS LISTED IN DETAIL A.

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FLOOR SEAM CAP
MOUNTING DETAIL
OPTION #1



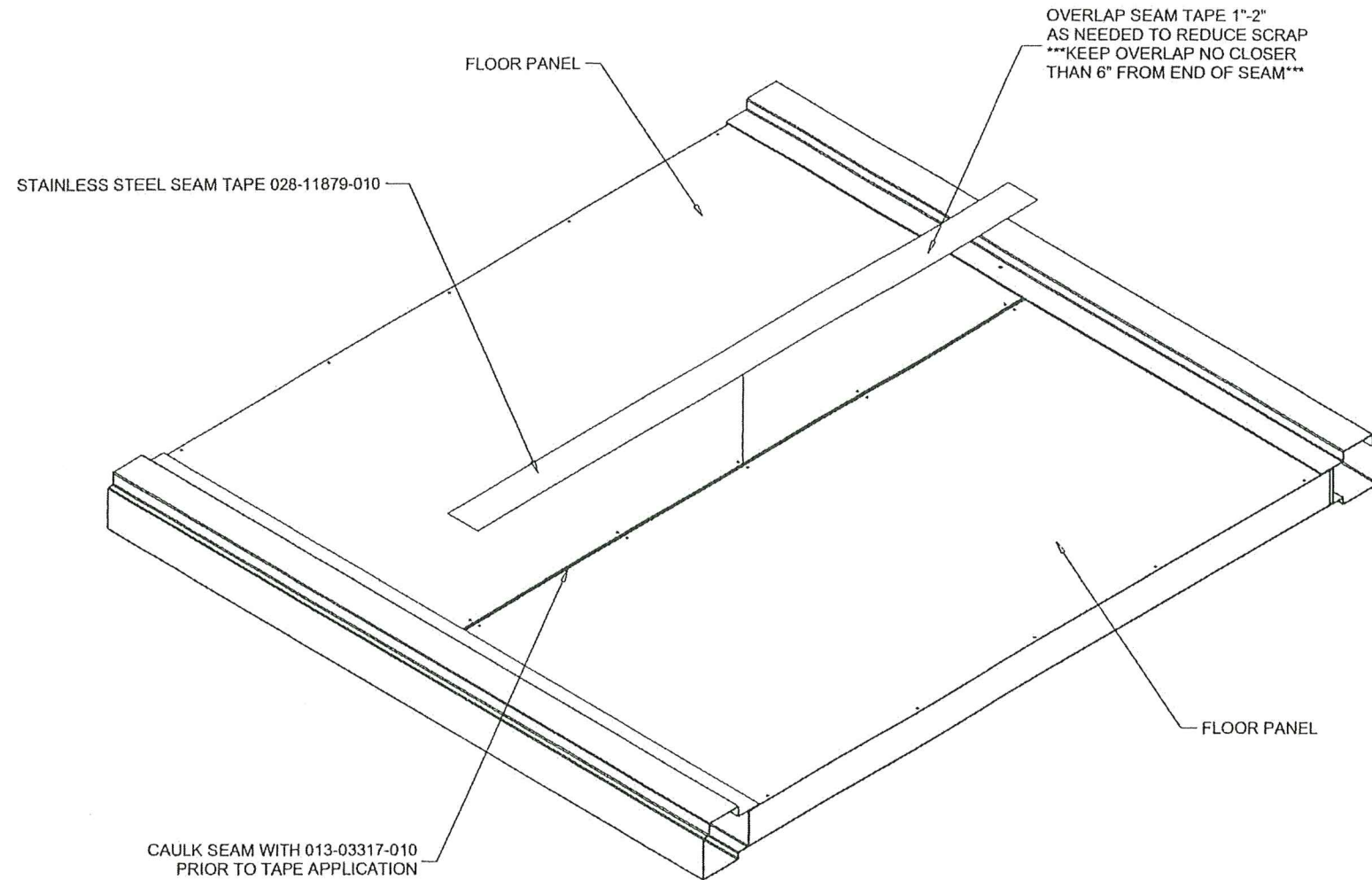
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date:	08-03-06
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dr. by:	TARIQ
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06-07
sheet 6 of 17



CAULK SEAM WITH 013-03317-010
PRIOR TO TAPE APPLICATION

OVERLAP SEAM TAPE 1"-2"
AS NEEDED TO REDUCE SCRAP
***KEEP OVERLAP NO CLOSER
THAN 6" FROM END OF SEAM***

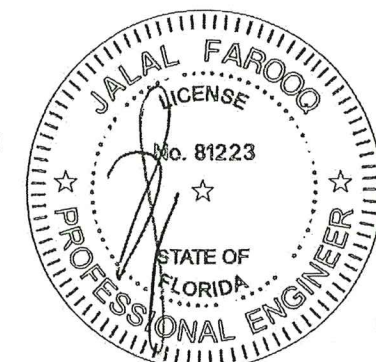
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STANDARD FLOOR PANEL SEAM TAPE APPLICATION
THIS APPLIES FOR BOTH XTI & XTO UNITS.
CLEAN BOTH SIDES OF SEAM WITH 50% RUBBING
ALCOHOL WATER MIX OR EQUAL. ALLOW TO DRY.
CAULK ALONG FLOOR PANEL SEAM.
APPLY SEAM TAPE EVENLY ALONG ENTIRE FLOOR
PANEL SEAM.

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FLOOR SEAM TAPE
ASSEMBLY
OPTION #2



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SOLUTION XT ROOFTOP AIR HANDLING UNIT

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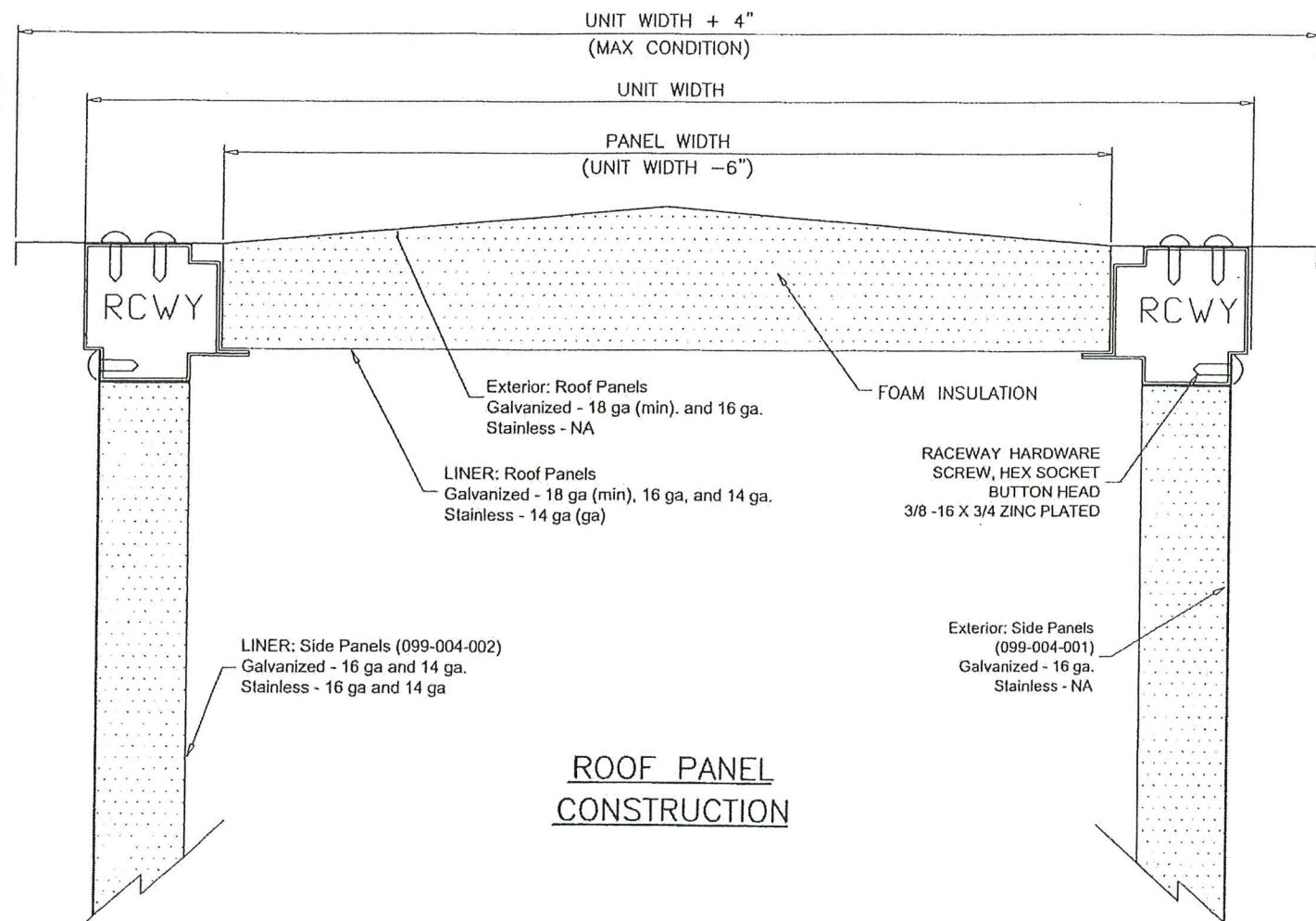
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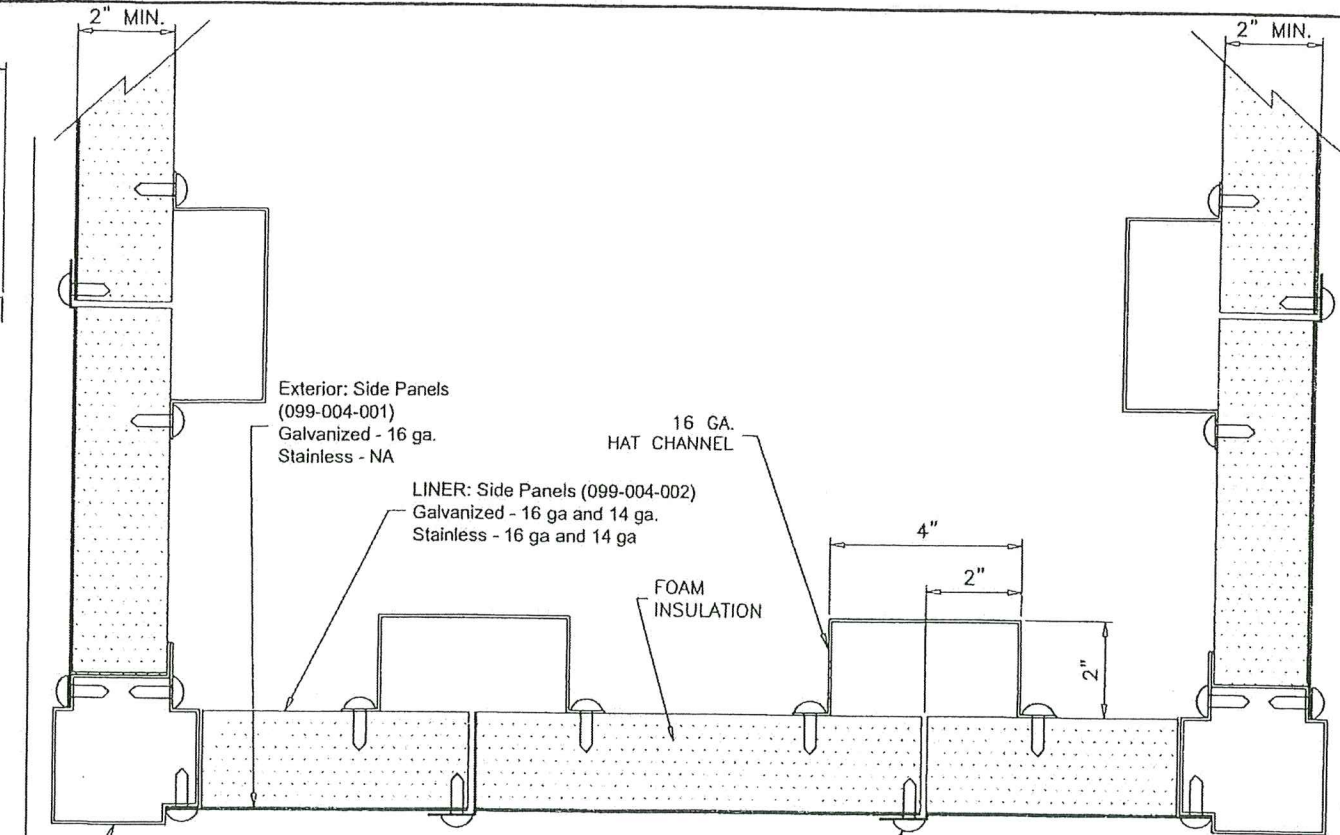
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sheet 7 of 17

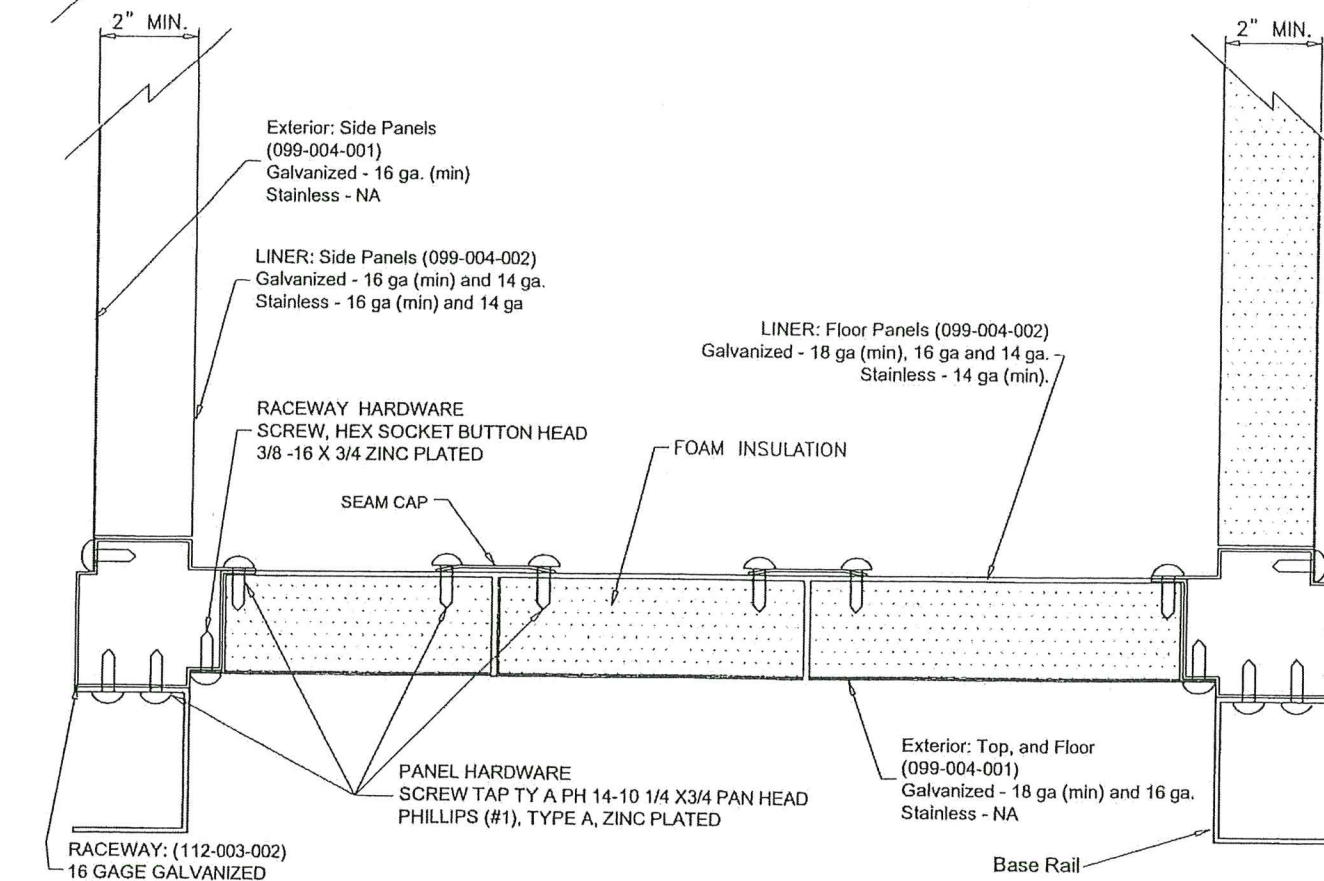
COOLER\06-07YIC



ROOF PANEL CONSTRUCTION



**TOP VIEW
WALL PANEL CROSS SECTION**



FLOOR PANEL CONSTRUCTION

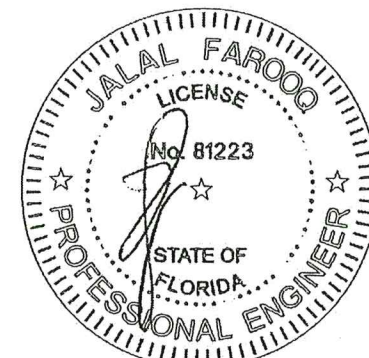
Notes:

1. Roof panels, floor panels, and wall panels are 2.00" thick double wall construction. Exterior roof and floor panel construction of 18 gage (min) galvanized steel and 16 gage (min) for wall panels. The interior liner shall be constructed of 18 gage (min) for roof and floor panels and 16 gage (min) for walls.
2. Access doors are 2.00" thick, double-wall construction, of galvanized sheet steel. The interior and exterior liner construction shall consist of 20 gage sheet steel. Additionally, an 18 gage exterior panel shall be secured to the access door with #14 x 3/4" self-tapping sheet metal screws.
3. Insulation is spray injected closed-cell foam.

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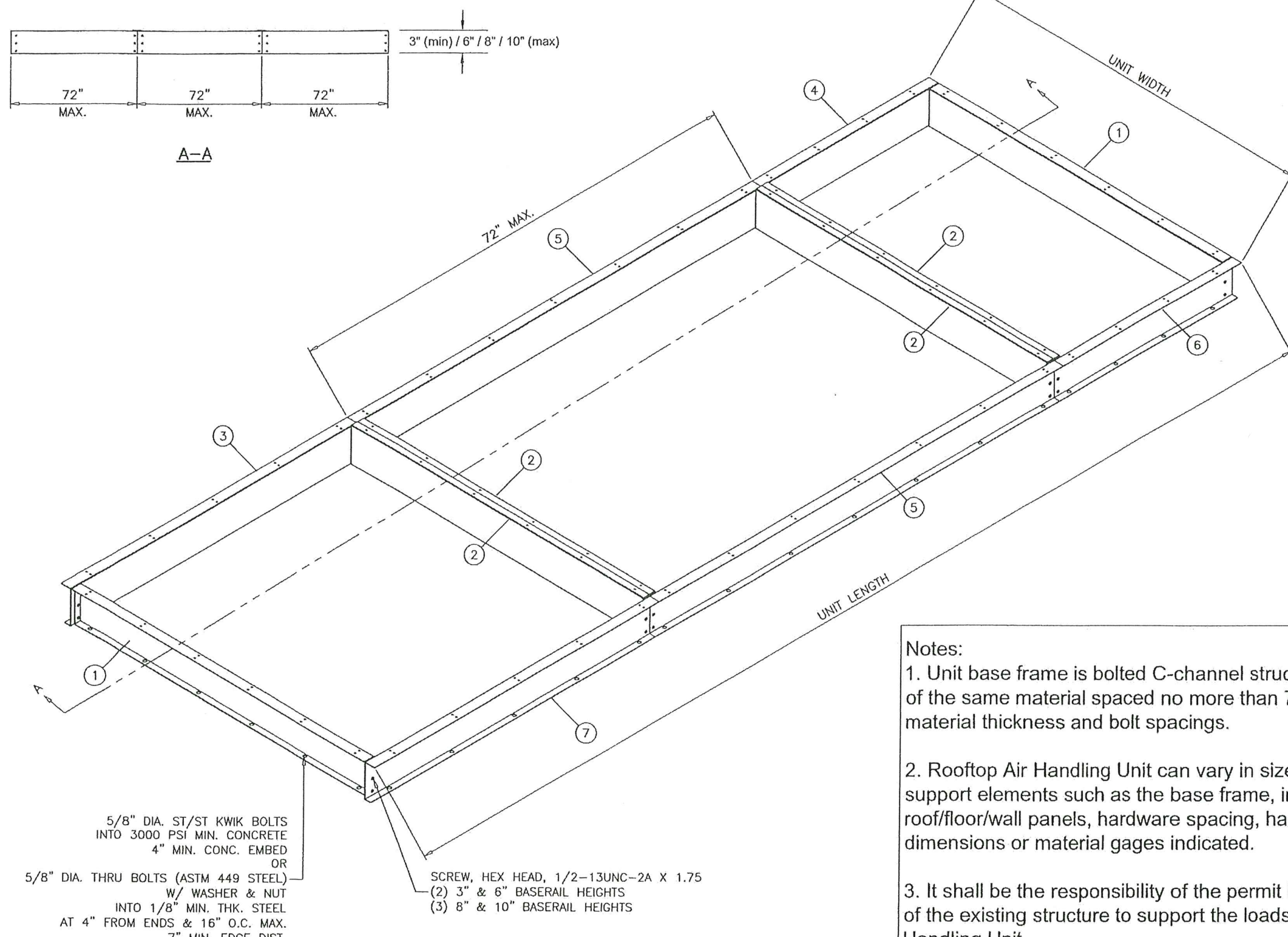
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dr. by: TARIQ
chk. by:

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06-07
sheet 8 of 17



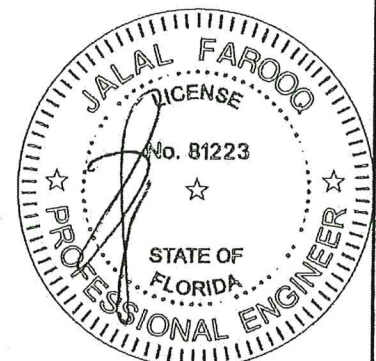
Notes:

1. Unit base frame is bolted C-channel structural steel with c-channel cross supports of the same material spaced no more than 72" apart. Refer to sheet 10 for material thickness and bolt spacings.
2. Rooftop Air Handling Unit can vary in size however, spacing of the structural support elements such as the base frame, internal hat channels, raceways, roof/floor/wall panels, hardware spacing, hardware sizes, shall not exceed the dimensions or material gages indicated.
3. It shall be the responsibility of the permit holder to verify the structural integrity of the existing structure to support the loads superimposed by the Rooftop Air Handling Unit.

Parts List		
ITEM	QTY	DESCRIPTION
1	2	BASERAIL END XTI GALV
2	4	BASERAIL INT XTI GALV
3	1	BASERAIL DOA FIA GALV
4	1	BASERAIL DOA LIA GALV
5	2	BASERAIL DOA MIA GALV
6	1	BASERAIL DOA FIA GALV
7	1	BASERAIL DOA LIA GALV

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 SOLUTION XT
 BASERAIL ASSEMBLY



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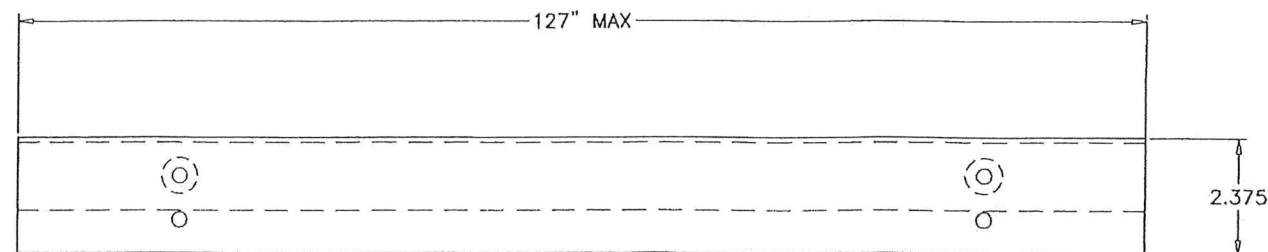
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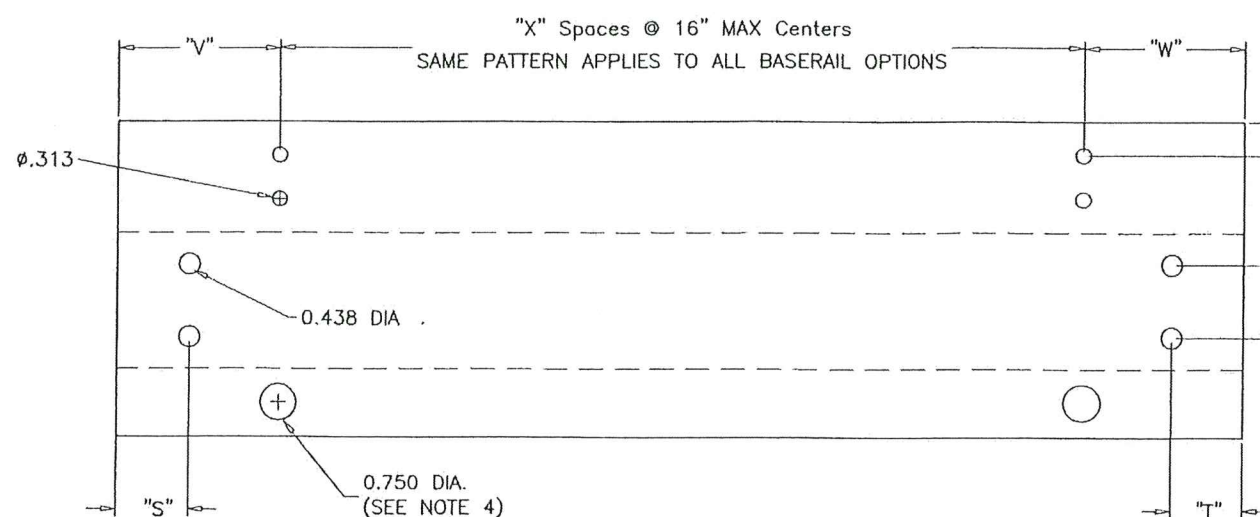
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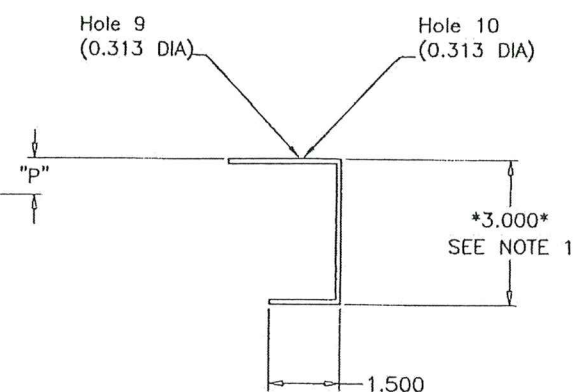
sheet 9 of 17



FORMED TOP VIEW



FLAT VIEW



FORMED SIDE VIEW

5/8" DIA. HOLES USED WITH 1/4" SCREWS TO ATTACH BASERAIL TO UNIT RACEWAY.
3/4" DIA. HOLES USED WITH 5/8" BOLTS TO ATTACH BASERAIL TO DUNAGE STEEL OR CONC. SLAB.
SEE SHEET 11 FOR BASERAIL USED FOR ROOF CURB.

NOTES:

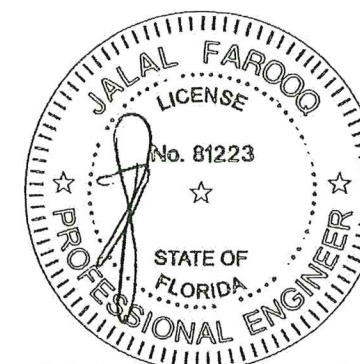
- 1) BASERAIL OPTION HEIGHTS 3", 6", 8", 10"
- 2) HOLE SPACING BETWEEN FIRST AND LAST WILL VARY UPON BASERAIL LENGTH BUT CENTERS WILL NOT EXCEED 16" AS INDICATED BY "X" SPACES.
- 3) BASERAIL GAGES AS FOLLOWS - 3" = 12 GAGE GALV
6" = 10 GAGE GALV
8" = 10 GAGE GALV
10" = 8 GAGE GALV
- 4) 0.75" DIA. BASERAIL BOLT HOLE SHALL BE USE FOR ATTACHMENT TO THE ROOF TO PREVENT SLIDING AND OVERTURNING OF THE AIR HANDLING UNIT.

Baserail Height	"P"	"Q" SPACES	"R"	BASERAIL LOCATION	"S"	"T"	"V"	"W"
3	.875	1	1.250	LIA	.941	1.781	3.153	5.403
6	1.657	1	2.687	MIA	.941	.941	3.153	3.153
8	1.657	2	2.687	FIA	1.781	.941	5.403	3.153
10	1.657	2	2.687	FULL	1.781	1.781	5.403	5.403

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BASERAIL
DIMENSIONS

afC

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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COOLER 06-07YIC

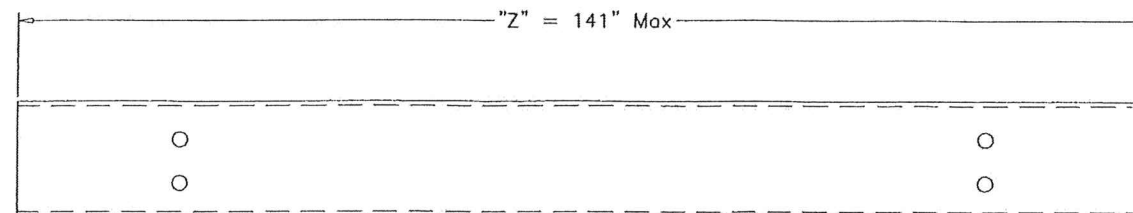
SOLUTION XT ROOFTOP AIR HANDLING UNIT

York/Johson Controls Inc.
100 JCI Way
York, PA. 17406
TEL. (717) 978-3326

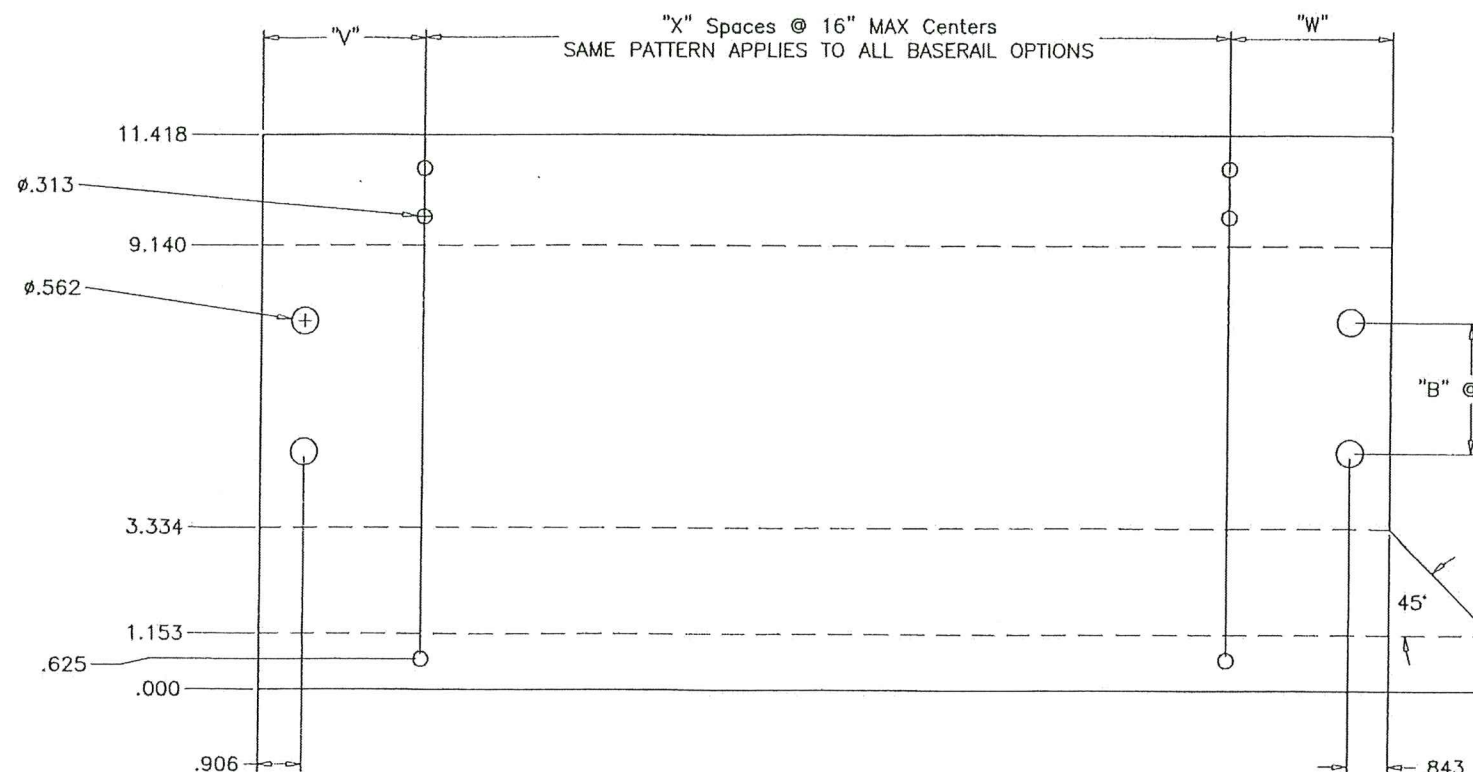
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H	12.23.19		MANUF. ADDRESS REV.
I	05.20.21		EDITORIAL CHANGES ONLY
J	08.02.23		NO CHANGE THIS SHEET

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scale: 1/4" = 1"
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chk. by:

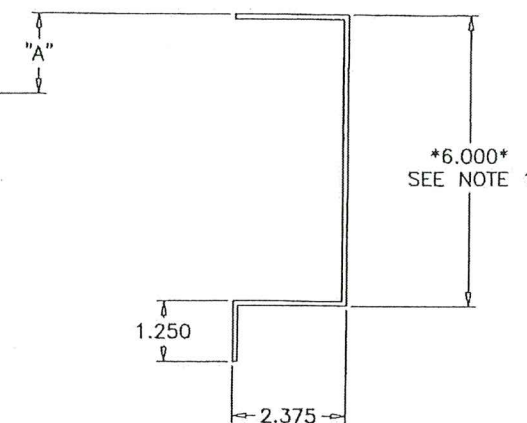
drawing no.
06-07
sheet 10 of 17



FORMED TOP VIEW



FLAT VIEW



FORMED SIDE VIEW

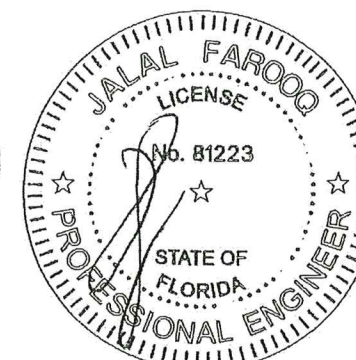
CALCULATION CHART AND DATA			
VERTICAL HOLE DATA			
BASERAIL HEIGHT	"A"	"B" SPACES	"C"
6"	1.657	1	2.687
8"	1.657	2	2.687
10"	1.657	2	2.687

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 25-0203.03
Expiration Date 12/09/2029
By Helga A. Mohr
Miami Data Product Control

Baseraill Location	"V"	"W"	"Z"	"X"
FIA "C"	3.153	3.028	=SUM OF SECTION LENGTHS + 3.063 (<=141")	=ROUNDUP((Z-V-W)/16")

BASERAIL
DIMENSIONS
FOR USE W/ ROOF CURB

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1107.02
Expiration Date 12/09/2024
By Helga A. Mohr AUG 03 2023
Miami Data Product Control



- NOTES:
- 1) BASERAIL OPTION HEIGHTS 6",8",10"
 - 2) HOLE SPACING BETWEEN FIRST AND LAST WILL VARY UPON BASERAIL LENGTH BUT CENTERS WILL NOT EXCEED 16" AS INDICATED BY "X" SPACES.
 - 3) BASERAIL GAGES AS FOLLOWS - 6" = 10 GAGE GALV
8" = 10 GAGE GALV
10" = 8 GAGE GALV
 - 4) 0.75" DIA. BASERAIL BOLT HOLE SHALL BE USE FOR ATTACHMENT TO THE ROOF TO PREVENT SLIDING AND OVERTURNING OF THE AIR HANDLING UNIT.

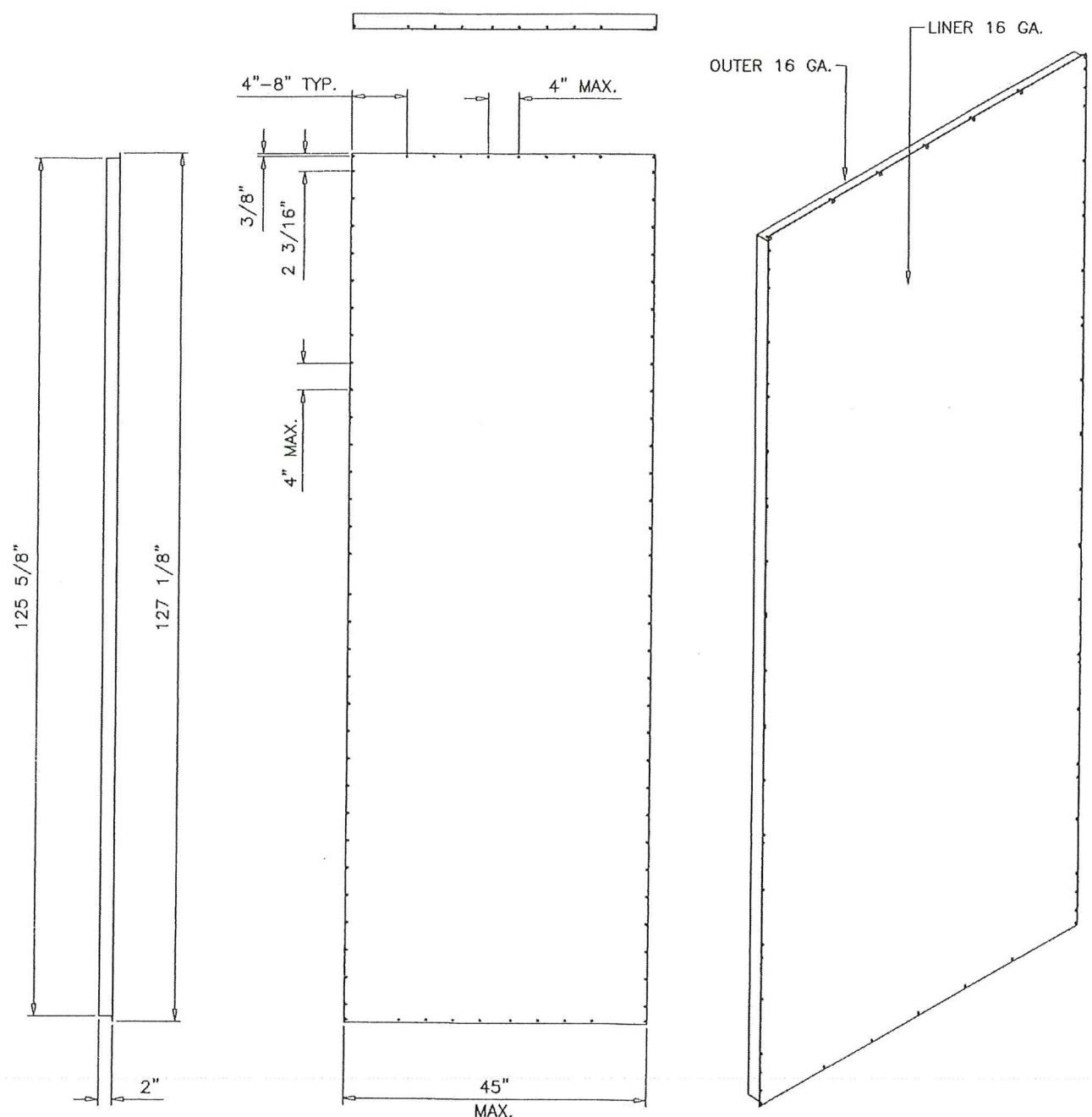
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SOLUTION XT ROOFTOP AIR HANDLING UNIT
York/Johnson Controls Inc.
100 JCI Way
York, PA. 17406
TEL. (717) 978-3326

revisions:	no	date	by	description
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	I	05.20.21		EDITORIAL CHANGES ONLY
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scale:	1/4" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.
06-07
sheet 11 of 17



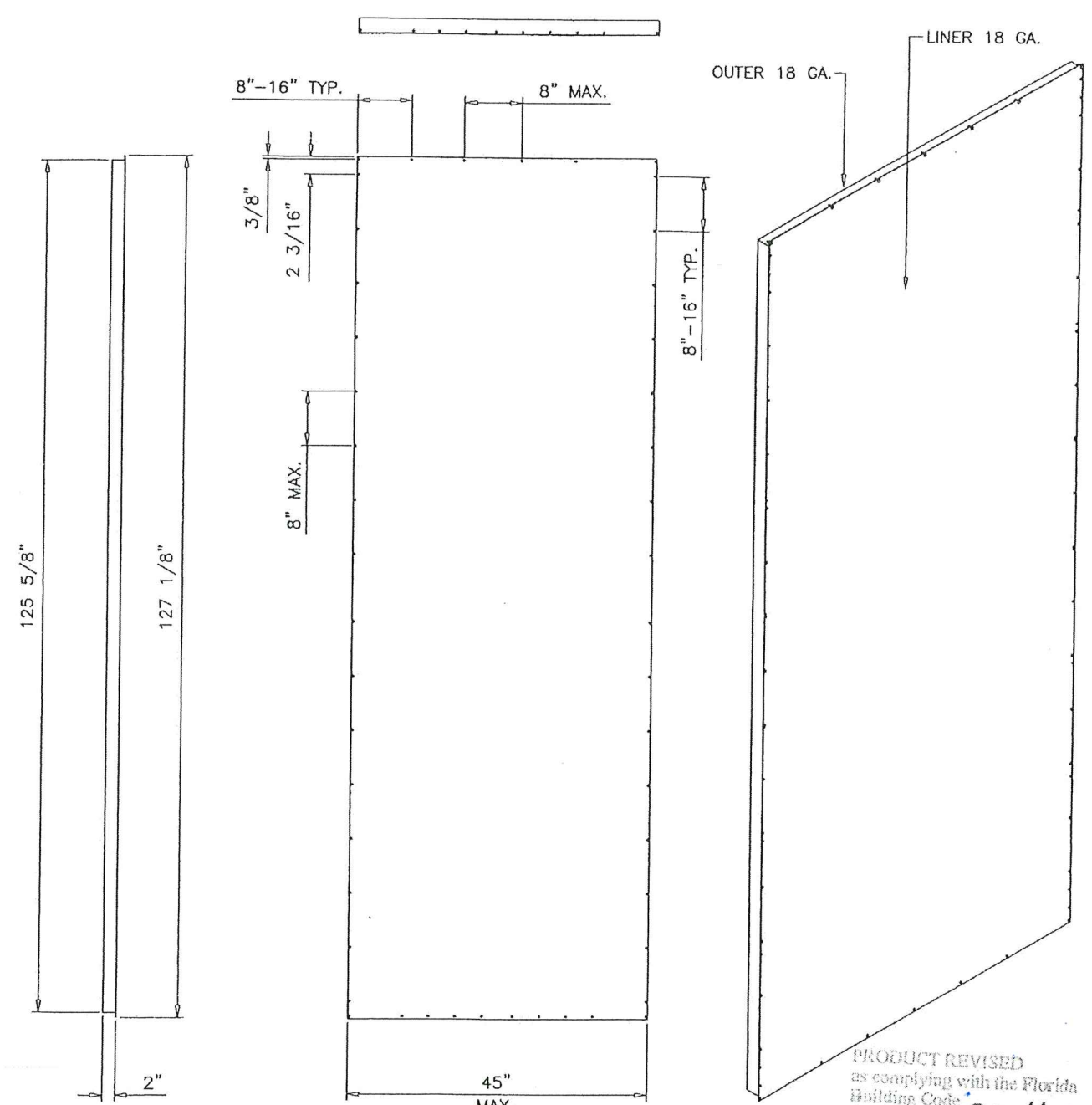
SIDE VIEW

FRONT VIEW

ISOMETRIC VIEW

SOLUTION XT-45W
WALL PANEL ASSY.

NOTE: SCREW SPACING AND LOCATIONS ARE INDICATED. REFER TO OTHER DRAWINGS FOR SCREW SIZES



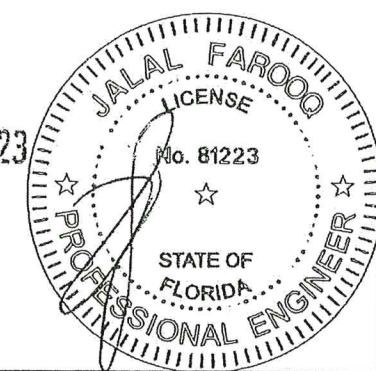
SIDE VIEW

FRONT VIEW

ISOMETRIC VIEW

SOLUTION XT-45W
FLR/ROOF PANEL ASSY.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 25-0203.03
Expiration Date 12/09/2029
By *Hely A. Maher*
Miami Dade Product Control



AUG 03 2023

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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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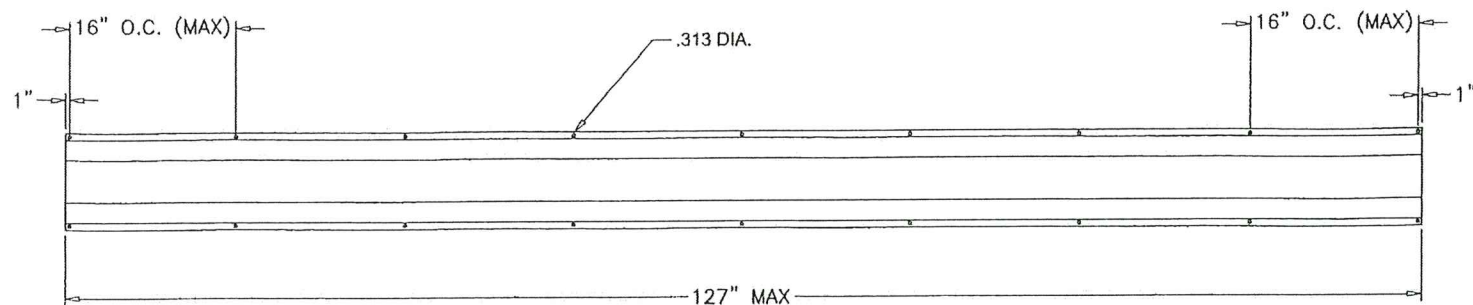
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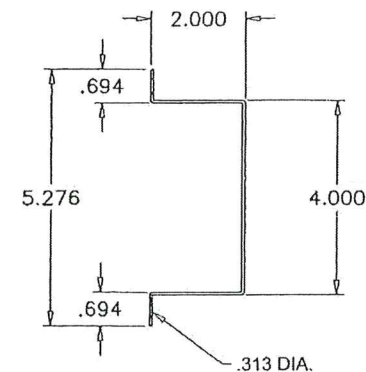
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dr. by: TARIQ
chk. by:

drawing no.
06-07
sheet 12 of 17

COOLER 06-07YC



FLAT VIEW

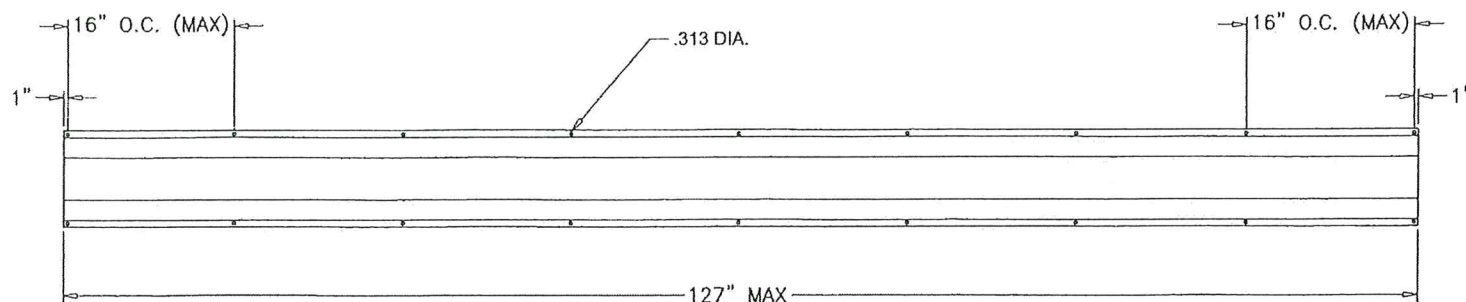


FORMED SIDE VIEW

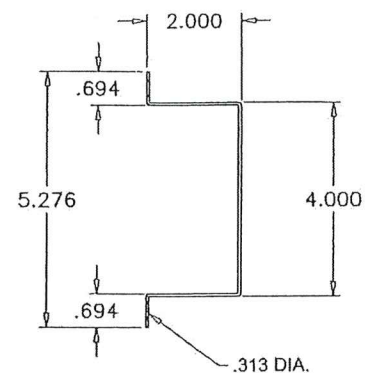
NOTES:

1. Internal steel hat channel supports shall be 16 gage minimum thickness galvanized steel.
2. The maximum spacing for the internal supports shall be 36" O.C. and maximum length shall not exceed 127".
3. Hat channels shall be installed to unit #14 x 1" self-tapping panhead screws.

SIDE WALL SUPPORTS
SOLUTION XT-HAT CHANNEL



FLAT VIEW



FORMED SIDE VIEW

NOTES:

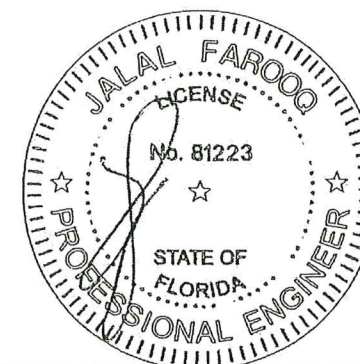
1. Internal steel hat channel supports shall be 12 gage minimum thickness galvanized steel.
2. The maximum spacing for the internal supports shall be 37" O.C. and maximum length shall not exceed 127".
3. Hat channels shall be installed to unit #14 x 1" self-tapping panhead screws.

END WALL SUPPORTS
SOLUTION XT-HAT CHANNEL

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 25-0203.03
Expiration Date 12/09/2029
By *Helga P. Miller*
Miami Data Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1107.02
Expiration Date 12/09/2024
By *Helga P. Miller*
Miami Data Product Control

AUG 03 2023



a f c

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ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

SOLUTION XT ROOFTOP AIR HANDLING UNIT

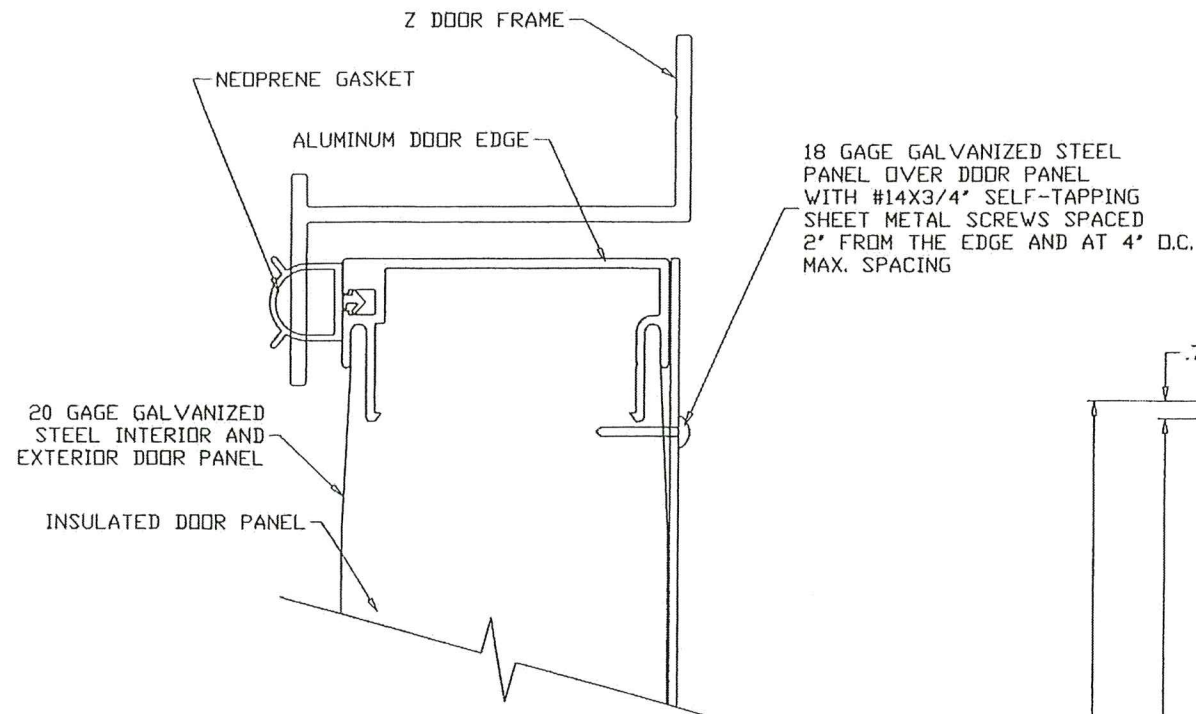
York/Johnson Controls Inc.
100 JCI Way
York, PA. 17406
TEL. (717) 978-3326

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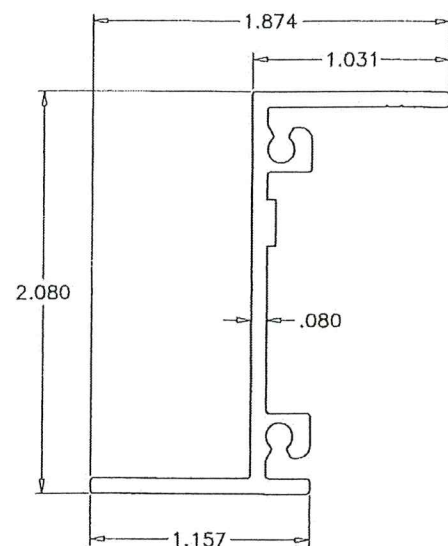
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dr. by:	TARIQ
chk. by:	

drawing no.
06-07
sheet 13 of 17

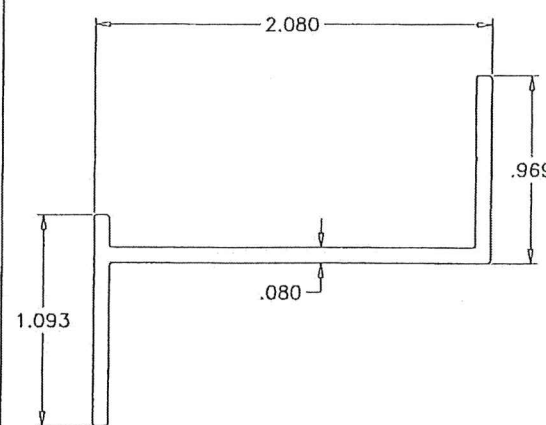
COOLER\06-07YIC



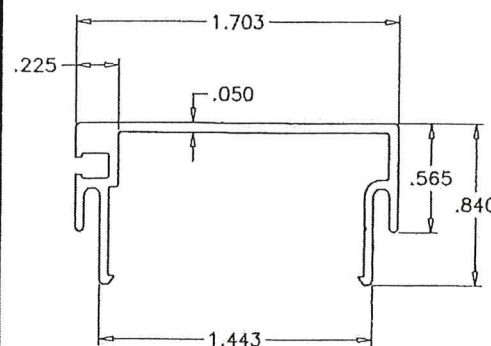
ENLARGED DOOR EDGE DETAIL



NON THERMAL VERTICAL
Z FRAME



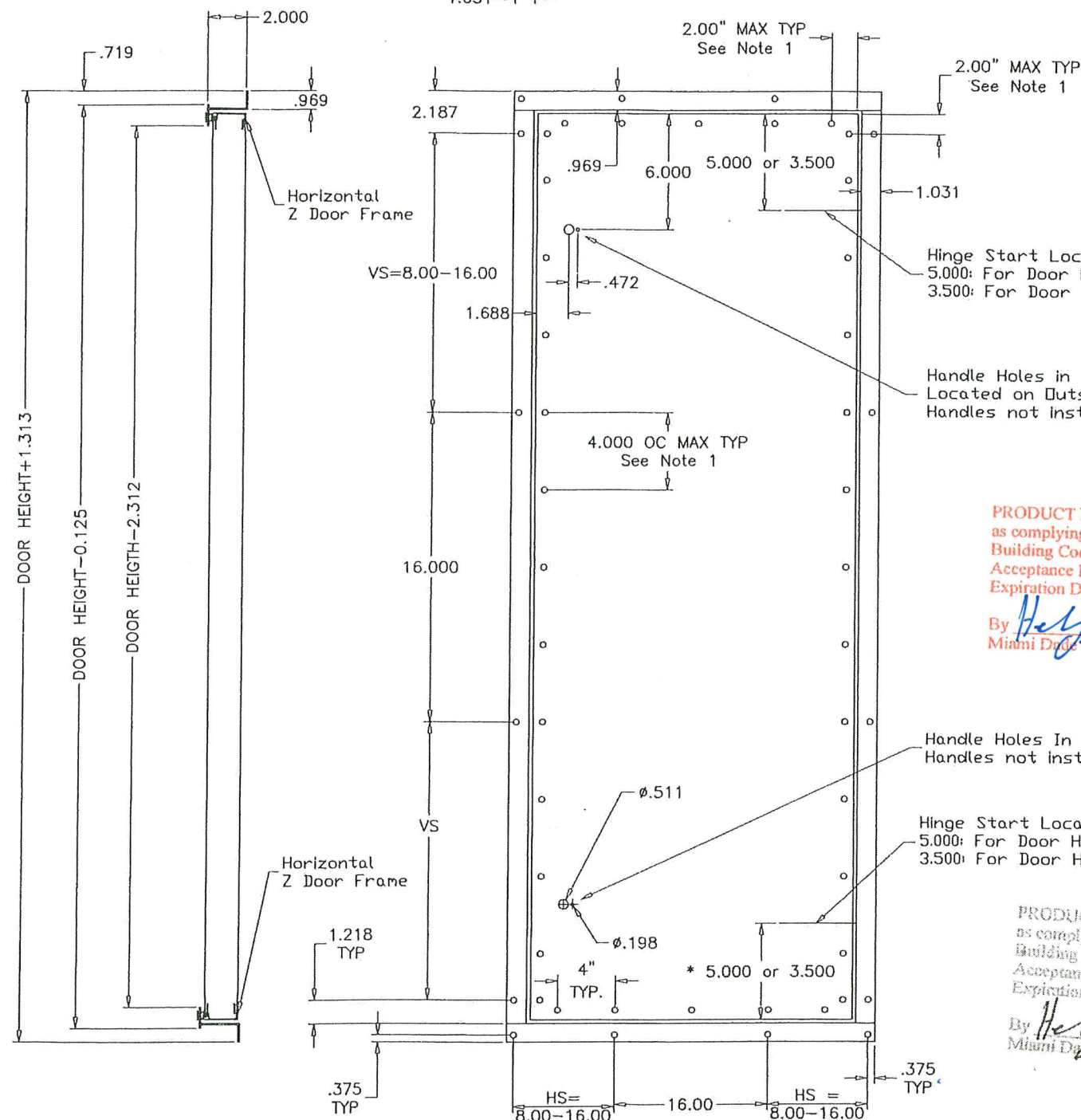
NON THERMAL HORIZONTAL
Z FRAME



NON THERMAL DOOR PANEL
EDGE EXTRUSION

NOTES:
UNIT DOOR HEIGHT = UNIT HEIGHT - 6.125
PIPE CHASE DOOR HEIGHT = UNIT HEIGHT - 3.125

NOTE:
1. Access doors are 2.00" thick, double-wall construction of galvanized sheet steel. The interior and exterior liner construction shall consist of 20 gage sheet steel. Additionally, an 18 gage steel exterior panel shall be secured to the access door with #14 x 3/4" self-tapping sheet metal screws spaced 2" from the edge and at 4" O.C.

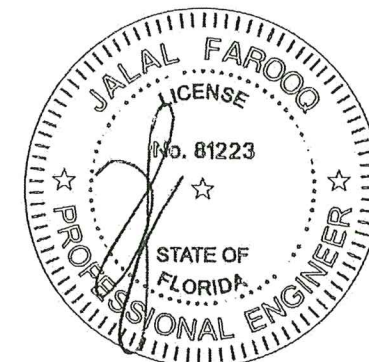


PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 25-0203.03
Expiration Date 12/09/2029
By *H. S. A. Mohr*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1107.02
Expiration Date 12/09/2024
By *H. S. A. Mohr*
Miami Dade Product Control

AUG 03 2023

SOLUTION XT
ACCESS DOOR
OPTION #1



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COOLER 06-07YIC

SOLUTION XT ROOFTOP AIR HANDLING UNIT

York/Johnson Controls Inc.
100 JCI Way
York, PA. 17406
TEL. (717) 978-3326

no	date	by	description
G	10.02.19		NO CHANGE THIS SHEET
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I	05.20.21		EDITORIAL CHANGES ONLY
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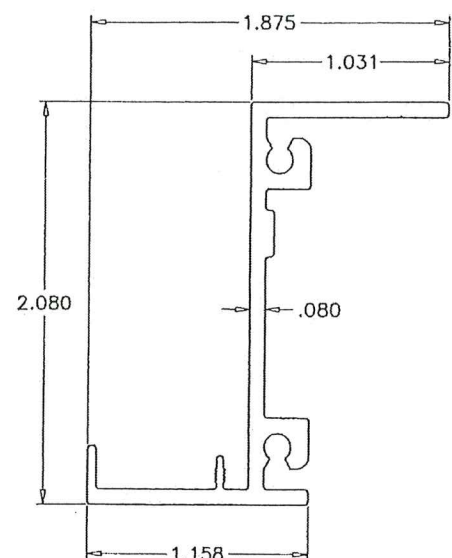
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dr. by: TARIO
chk. by:

drawing no.
06-07
sheet 14 of 17

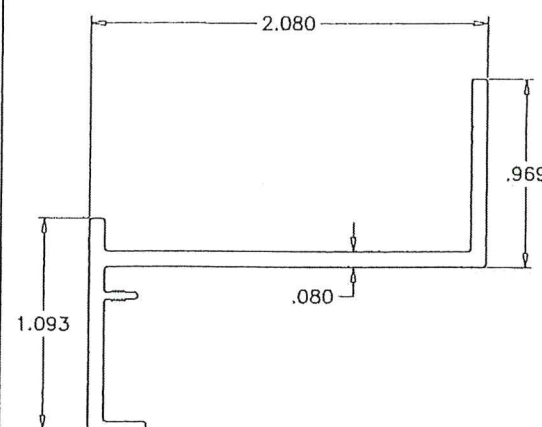
24 GAGE GALVANIZED
STEEL INTERIOR AND
EXTERIOR DOOR PANEL

INSULATED DOOR PANEL

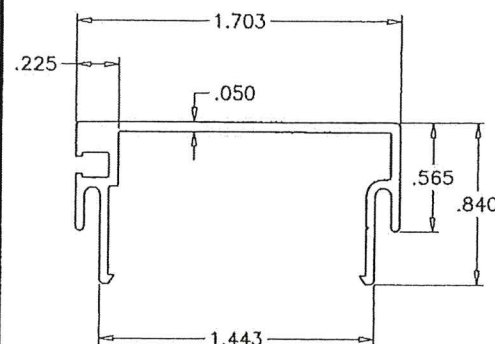
ENLARGED DOOR EDGE DETAIL



NON THERMAL VERTICAL
Z FRAME



NON THERMAL HORIZONTAL
Z FRAME

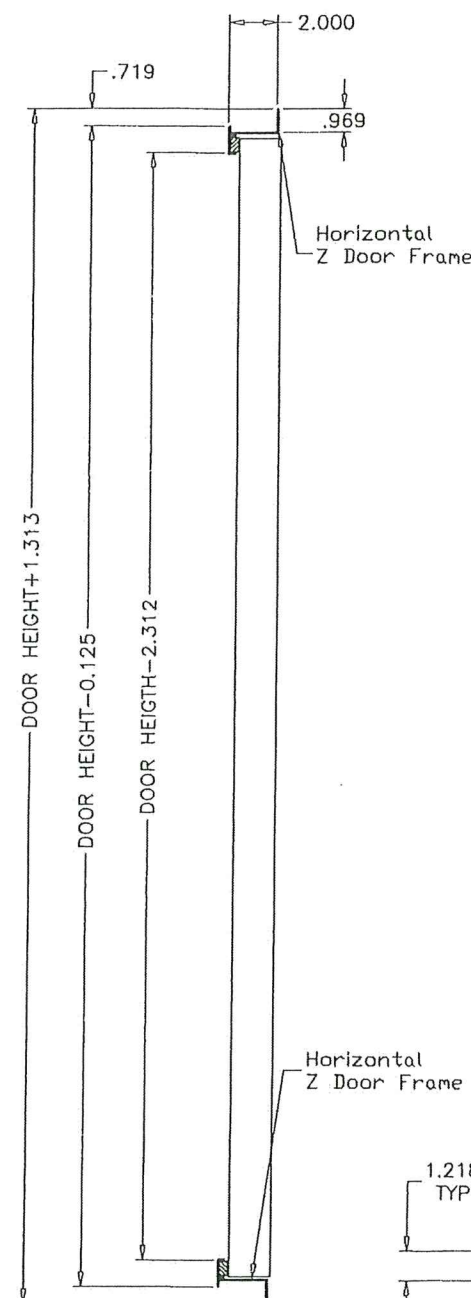


NON THERMAL DOOR PANEL
EDGE EXTRUSION

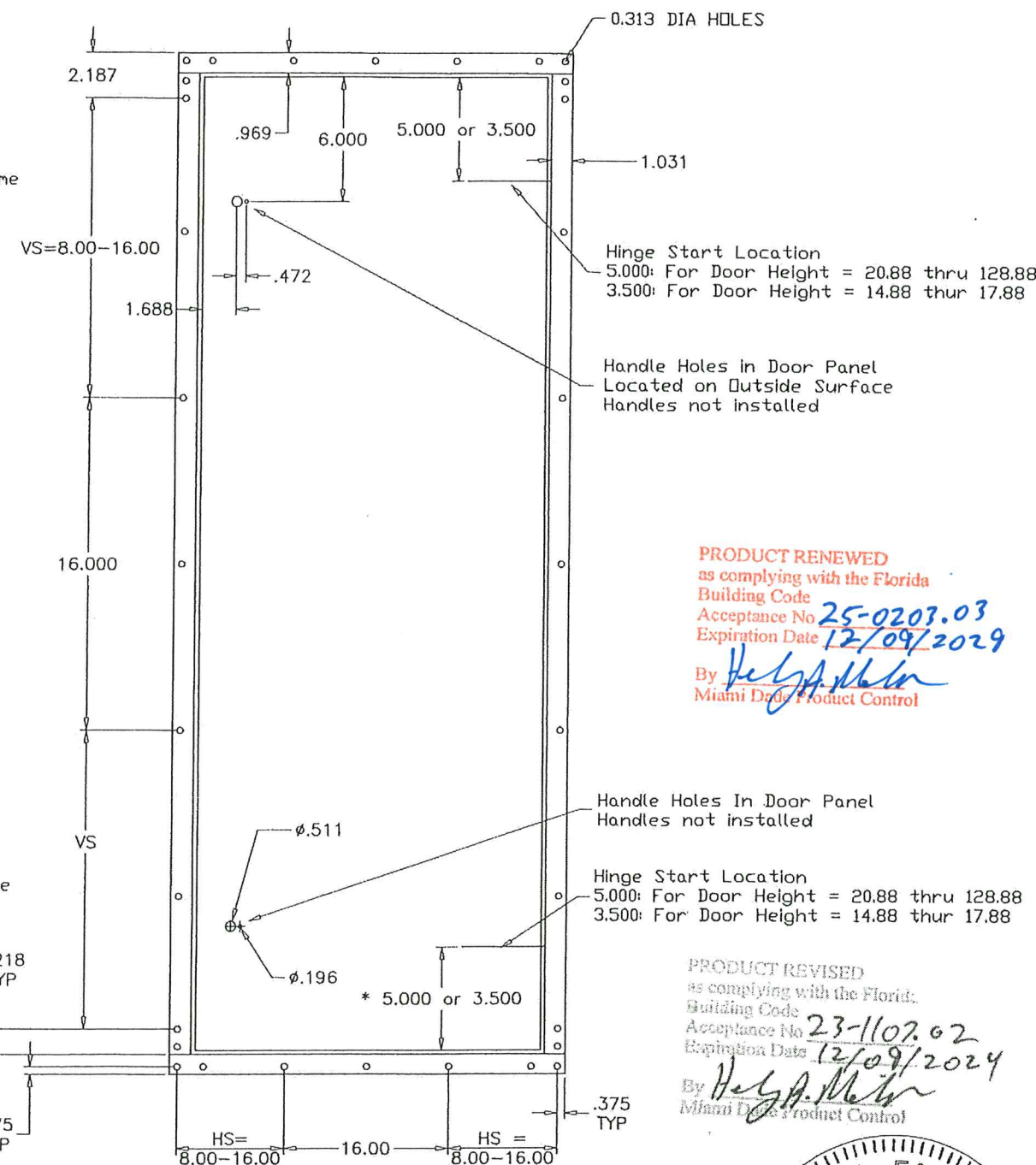
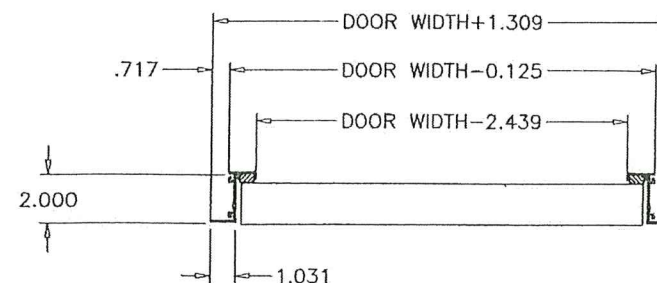
NOTES:
UNIT DOOR HEIGHT = UNIT HEIGHT - 6.125
PIPE CHASE DOOR HEIGHT = UNIT HEIGHT - 3.125

NOTE:
1. Access doors are 2.00" thick, double-wall construction of galvanized sheet steel. The interior and exterior liner construction shall consist of 24 gage sheet steel.
2. View area not available on Doors used for NOA constructed units.
3. Door must show no water leakage at 6.0" W.C and no air leakage at negative 8.0" W.C

Z DOOR FRAME



Horizontal
Z Door Frame



Hinge Start Location
5.000: For Door Height = 20.88 thru 128.88
3.500: For Door Height = 14.88 thru 17.88

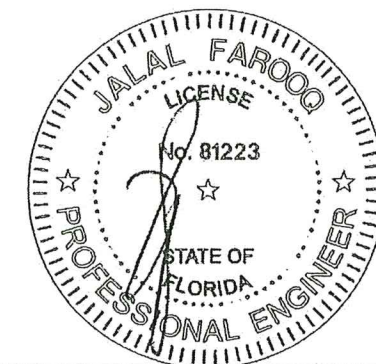
Handle Holes in Door Panel
Located on Outside Surface
Handles not installed

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 25-0203.03
Expiration Date 12/09/2029
By *Helga A. Miller*
Miami Dade Product Control

Handle Holes in Door Panel
Handles not installed

Hinge Start Location
5.000: For Door Height = 20.88 thru 128.88
3.500: For Door Height = 14.88 thru 17.88

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 23-1107.02
Expiration Date 12/09/2024
By *Helga A. Miller*
Miami Dade Product Control



AUG 03 2023

SOLUTION XT
ACCESS DOOR
OPTION #2

af c

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MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SOLUTION XT ROOFTOP AIR HANDLING UNIT

York/Johnson Controls Inc.
100 JCI Way
York, PA. 17406
TEL. (717) 978-3326

no	date	by	description
G	10.22.19		NO CHANGE THIS SHEET
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J	08.02.23		NO CHANGE THIS SHEET

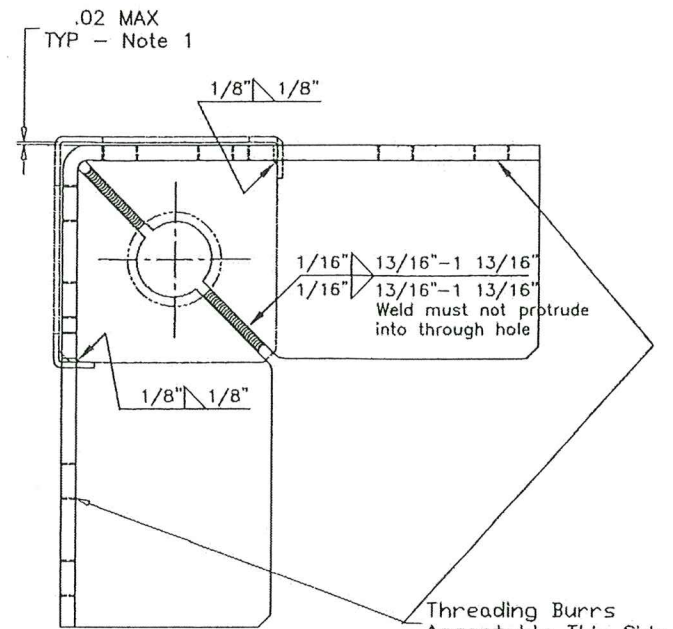
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dr. by: TARIQ
chk. by:

drawing no.

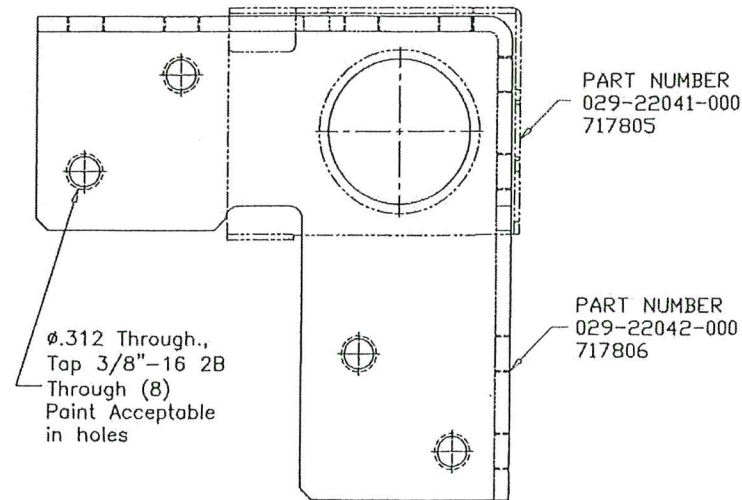
06-07

sheet 15 of 17

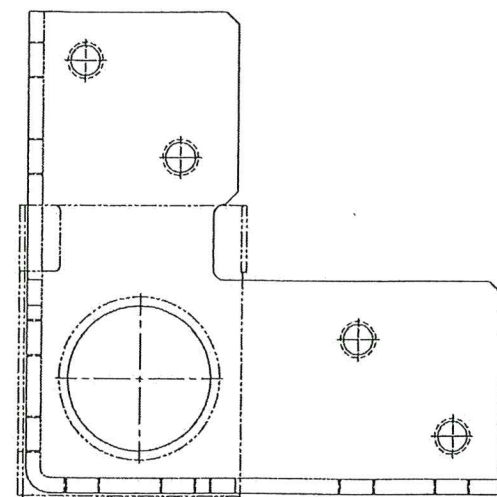
COOLER 06-07YIC



TOP VIEW



EXTERIOR SIDE VIEW



INTERIOR SIDE VIEW

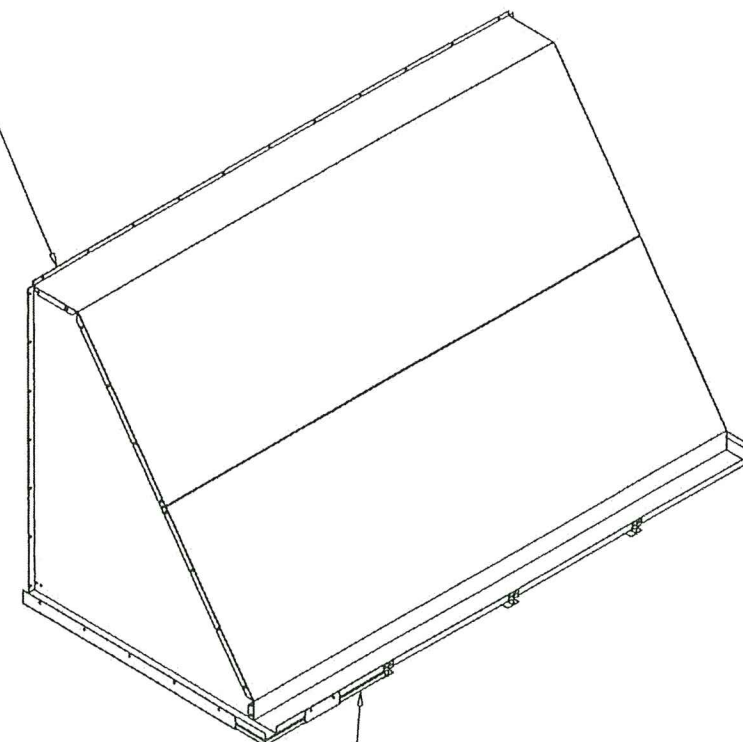
Notes:

- 1) Gap can not accept 1/2" wide feeler stock.
- 2) Finish - Anodized Silver Powder Coat Paint.
- 3) Sub-component dimensions are prior to paint.
- 4) 8 gage stamped and formed galvanized steel corner

CORNER CONNECTOR
DETAIL

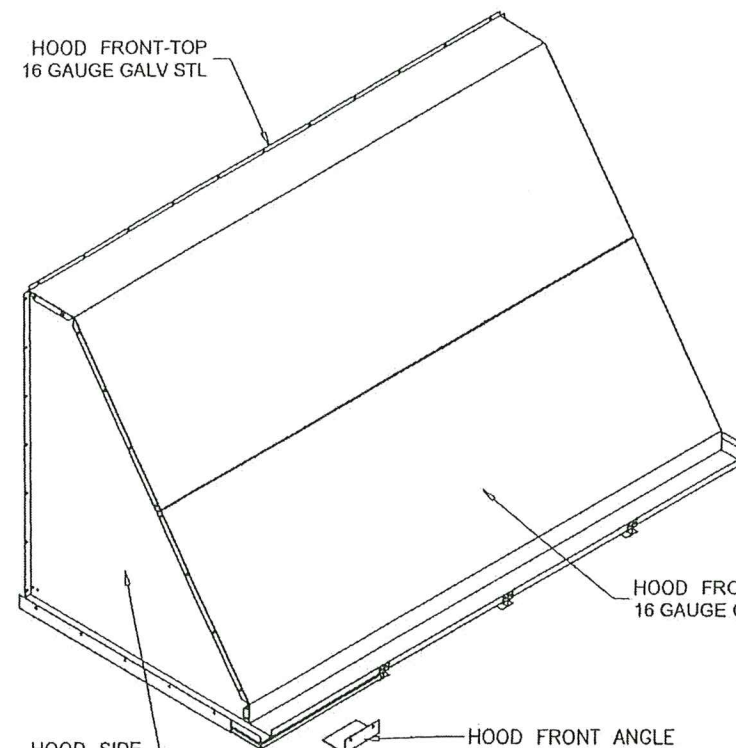
1/2" = 1"

PLACE BUTYL TAPE
0.75" W X 0.19" THK
ALONG BACK OF
HOOD FLANGE & SCURE
TO UNIT WITH
0.25-14X0.75LG TYPE A SCREWS



FILTER BIRD SCREEN
& EXPANDED METAL
MOISTURE ELIMINATOR

HOOD FRONT-TOP
16 GAUGE GALV STL



HOOD FRONT-BOTTOM
16 GAUGE GALV STL

HOOD SIDE
16 GAUGE GALV STL

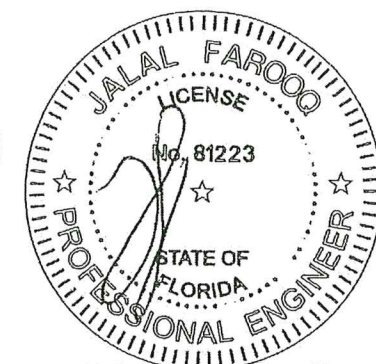
HOOD FRONT ANGLE

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 25-0203.03
Expiration Date 12/09/2029
By *Healy*
Miami Data Product Control

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By *Healy*
Miami Data Product Control
AUG 03 2023

OUTDOOR AIR
HOOD ASSEMBLY

1/2" = 1'-0"



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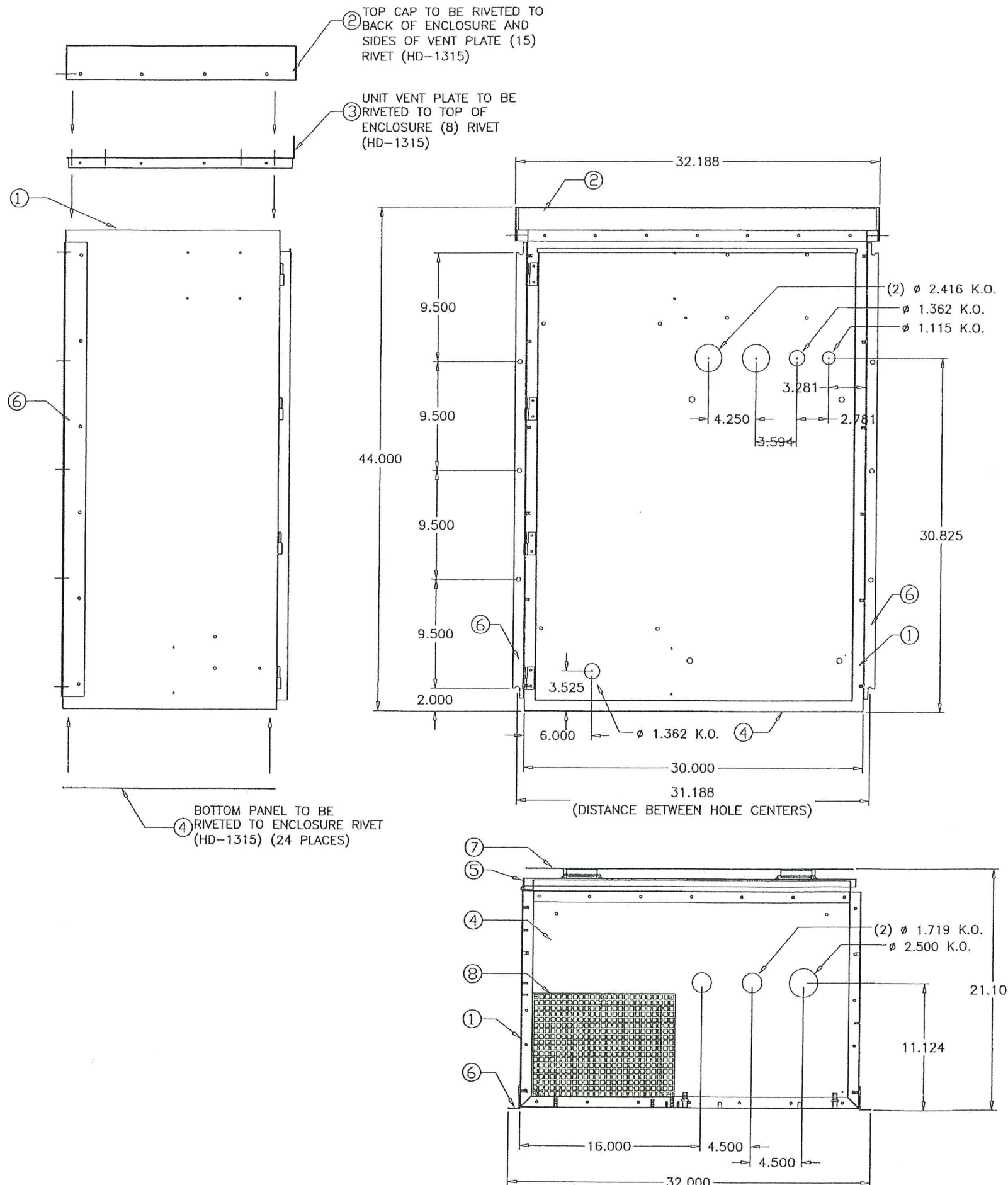
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date:	08-03-06
scale:	-
dr. by:	TARIQ
chk. by:	

drawing no.
06-07

sheet 16 of 17

COOLER\06-07\1C



PARTS LIST			
ITEM	DRAWING NO.	ITEM DESCRIPTION	QTY.
1	207931	ENCLOSURE ASSEMBLY	1
2	207935	ENCLOSURE TOP CAP	1
3	207936	UNIT VENT PLATE	1
4	207937	BASE PANEL	1
5	207938	ENCLOSURE DOOR	1
6	207942	MOUNTING RAIL	2
7	207943	SUN SHIELD (DOOR)	1
8	207827	GRILLE	1

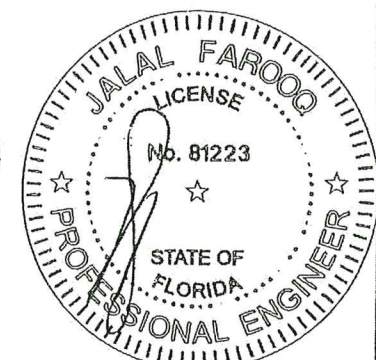
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 ENGINEERS & PRODUCT DEVELOPMENT
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 100 JCI Way
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PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. **25-0207.03**
 Expiration Date **12/09/2029**
 By *H. S. A. M. M.*
 Miami Date Product Control

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **23-1107.02**
 Expiration Date **12/09/2024**
 By *H. S. A. M. M.*
 Miami Date Product Control

AUG 03 2023



**VENTED NEMA 3R
 ENCLOSURE ASSEMBLY**

revisions:		by description	no
no	date	NO CHANGE THIS SHEET	
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chk. by:	

drawing no.	06-07
sheet	17 of 17