



VIA EMAIL

May 25, 2017

Mr. Scott Fish
City of New Port Richey – Public Works
6132 Pine Hill Rd.
Port Richey, FL 34668

**Subject: Field Report
Incubator Building – North Roof Area
6345 Grand Blvd.
New Port Richey, FL 34652
BillerReinhart Project No. 16-502**

Dear Mr. Fish:

Lee Levoir, P.E., Michael Biller, P.E., Dan Sapp, E.I. and Austin Getgen, E.I. with Biller Reinhart Engineering Group, Inc. (BillerReinhart) performed a site visits on Monday May 15, 2017 (start of construction activities) through Friday May 19, 2017, Monday May 22, 2017 and a final site visit on Thursday May 25, 2017 for the subject project. The purpose of the site visits was to review construction progress, methods of installation and areas of exposed metal roof deck. The Contractor was present during our site visits. This report documents the results of our site visit.

Site Visit Observations

The following are our site visit observations and directives:

1. Tear off of the existing roof system was completed during the first two days of construction. The metal roof deck exhibited sporadic areas of surface corrosion, section loss and permanent deflection. The Contractor was directed to install supplemental 24 gauge galvanized metal plates fastened at 6" O.C. with #10 screws around the perimeter of each plate. The Contractor fabricated the plates and incorporated a profile similar to the existing decking which will provide for a stiffer section. Refer to Figure 1.
2. Debris was observed to be removed from the deck surface and supplemental steel panels were fastened to the deflected areas of existing decking and areas exhibiting section loss. Refer to Figure 2 and attached as-built drawing for locations. Pressure treated 2x6 members were installed along the perimeter edge with #12 screws staggered at 4" O.C.

3. Fastening of the polyisocyanurate insulation board was observed to meet or exceed the specified requirements. The Contractor was directed to stagger the insulation boards and fill any gaps ¼” or greater. Refer to Figure 3.
4. Installation of the roof membrane along the east and west perimeter edges was initially completed with a 4 foot wide membrane strip fastened at 6” O.C. parallel to the roof edge and steel deck flutes. BillerReinhart communicated to the Contractor that the fasteners needed to be installed perpendicular to the roof deck. As a result, additional fasteners were installed within the edge and corner zones of the roof in order to meet the requirements of the contract documents and ultimately the wind load requirements. The Mule-Hide manufacturer representative was contacted to confirm that the fastener spacing at 12” O.C. was adequate within the field zone and that the method used to apply the additional fasteners to the roof system within the edge and corner zones were methods than where in general conformance with installation requirements and did not adversely impact the systems warranty. Refer to Figure 4.
5. The expansion joint was rebuilt to create a level application of the John Manville Expand-o-Flash accessory. The TPO was observed to be draped within the joint to provide for an internal vapor barrier and batt insulation was installed within the joint prior to application of the Expand-o-Flash accessory.
6. Unsealed cut membrane edges were observed. Fastener spacing for the Expand-o-Flash accessory exceeded the minimum 8” O.C. specified. The Contractor was directed to rectify these items.

Refer to photos below.



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Figure 1 - North Roof Deck Area Looking NW



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Figure 2 – Installation of supplemental deck panels

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Figure 3 – Mechanical fastening of insulation boards



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Figure 4 – Installation of Additional Membrane Fasteners Perpendicular to Roof Decking Flutes – Per Wind Uplift Requirements





Figure 5 – Expansion Joint

Please note that construction observation by the engineer or engineer's staff does not relieve the contractor of his obligations under the under the construction contract – including but not limited to accuracy, means and methods of construction, and responsibility for jobsite safety.

Biller Reinhart Engineering Group, Inc. reserves the right to update the information contained in this report if deemed necessary due to modified site conditions or the availability of new/additional information.

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Thank you for offering us the opportunity to provide our services for this project. Please contact our office if you have any questions regarding this report.

Sincerely,

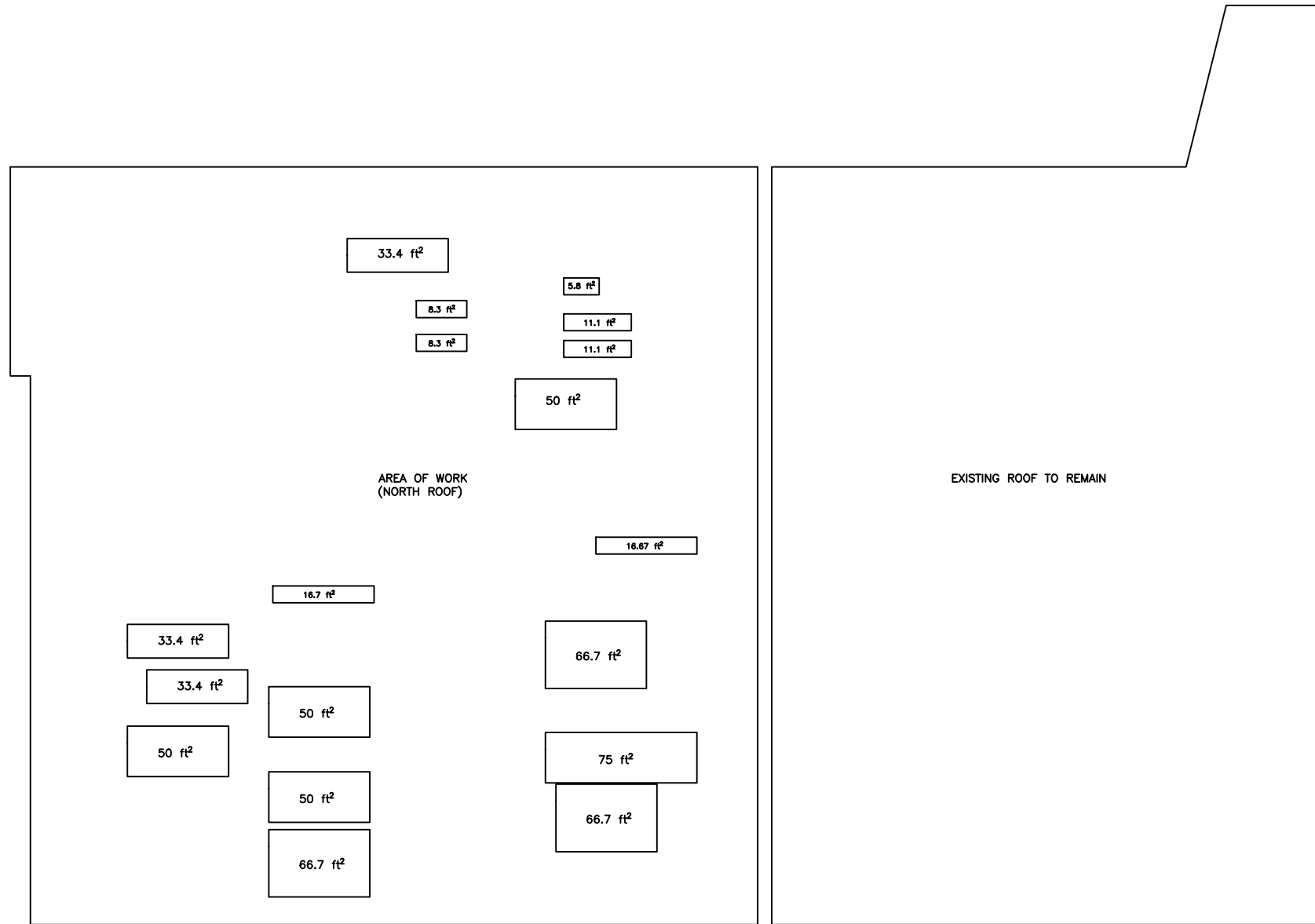
Biller Reinhart Engineering Group, Inc.
State of Florida Certificate of Authorization No. 9149

Lee Levoir, P.E.
Project Manager

This item has been electronically signed and sealed by Lee Levoir, PE, on May 25, 2017, using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.





1 AS-BUILT DECK REPAIR DIAGRAM
 S-AB SCALE: 1/8" = 1'-0"

KEY
 AREA (ft²) - SUPPLEMENTAL 24GA GALVANIZED PANELS, FASTENED WITH #10 SCREWS 6" O.C. AROUND PERIMETER OF EACH PANEL.

REVISIONS		COMMENTS
NO.	DATE	

NORTH ROOF RE-ROOFING PROJECT
 CITY OF NEW PORT RICHEY
 INCUBATOR BUILDING
 6345 GRAND BLVD.
 NEW PORT RICHEY, FL 34652

billerreinhardt
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 email : info@billerreinhardt.com
 State of Florida Certificate of Authorization No. 9149

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLAN AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REGULATORY CODES.

MICHAEL H. BELLER
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF FLORIDA LICENSE NO. 12507
 EXPIRES 12/31/2024

REPAIR AREA DIAGRAM
 DATE: 5-24-17 DRAWN BY: R.M./A.G.
 JOB NO: 16-502 DESIGN BY: M.B.

SHEET NO.
S-AB