

REI ENGINEERS

1927 J.N. PEASE PLACE, SUITE 201, CHARLOTTE, NC 28262
PHONE 704.596.0331 FAX 704.596.0533



DATE: April 29, 2016
FROM: REI Engineers
TO: Bidders of Record
REFERENCE: **Addendum No. 2**
Buncombe County Schools
Administrative Services Roof Replacement
REI Project No. 016CLT-046

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated April 13, 2016 and Addendum No. 1 dated April 21, 2016 as noted below.

This addendum consists of 2 pages, the attached revised Specification Section 01 11 00 and the attached Asbestos Test Results.

INFORMATION AVAILABLE TO BIDDERS:

1. Add the attached Test Report for Asbestos Analysis of the existing vapor retarder and mastic adhesive on Area D2.



ROOFING, WATERPROOFING AND BUILDING ENVELOPE ENGINEERS AND CONSULTANTS

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CHANGES TO SPECIFICATIONS:

2. Section 01 11 00-Summary of Work; replace with the attached, Revision No. 2 Section 01 11 00.

ALL OTHER REQUIREMENTS AND PROVISIONS OF THE BIDDING DOCUMENTS REMAIN UNCHANGED. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID FORM. FAILURE TO DO SO MAY BE CAUSE FOR REJECTION OF THE BID.

END OF ADDENDUM





EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 411603406

Customer ID: REIE25

Customer PO:

Project ID:

Attention: Jeremiah Webster
REI Engineers
1927 JN Pease Place
Suite 201
Charlotte, NC 28262

Project: Buncombe County Schools, Administration Services Building D2 016CLT-046

Phone: (704) 596-0331

Fax: (704) 596-0533

Received Date: 04/26/2016 11:30 AM

Analysis Date: 04/28/2016

Collected Date: 04/21/2016

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TC#1 VB-Mastic 411603406-0001	Vapor Barrier and Mastic Adhesive, Brown Paper Black Mastic	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
TC#1 VB-Vapor Barrier 411603406-0001A	Vapor Barrier and Mastic Adhesive, Brown Paper Black Mastic	Tan/Black Non-Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
TC#2 VB-Mastic 411603406-0002	Vapor Barrier and Mastic Adhesive, Brown Paper Black Mastic	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
TC#2 VB-Vapor Barrier 411603406-0002A	Vapor Barrier and Mastic Adhesive, Brown Paper Black Mastic	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected

Analyst(s)

Erin Guzowski (2)

Eric Loomis (2)

Lee Plumley, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial Report From: 04/29/2016 07:33:31

SECTION 01 11 00

SUMMARY OF WORK (REVISION NO. 2)

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Specification Sections, apply to this Section.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Name: Administrative Services Area D2 Roof Replacement
- B. Project Address: 175 Bingham Road, Asheville, North Carolina 28806
- C. Owner: Buncombe County Schools
- D. Engineer: The Contract Documents, dated April 13, 2016, were prepared by REI Engineers.
- E. This work includes the provision of all labor, material, equipment, supervision and administration to integrate the work outlined in this project manual into the total building system such that no leakage into the system occurs. In general, the scope of work in the **Base Bid** will include:
 - 1. Roof Area D2 (Approximately 18,815 square feet): Remove existing roof systems down to the existing steel deck; re-secure steel deck to structural framing members; provide two layers of 2.5" roof insulation; provide tapered insulation crickets between roof drains; mechanically attach cover board; *fully adhere 80-mil TPO, single ply roof membrane*; provide 60-mil TPO flashings and accessories and provide new sheet metal flashings and trim to provide a complete, watertight, 20-year warrantable roof assembly.
 - a. Provide fully adhered roof system where and as shown in Contract Drawings. Over properly prepared steel deck, *adhere two layers of 2.5" roof insulation in ribbons of foam adhesive (top of each steel deck flute)*; adhere tapered insulation crickets in ribbons of foam adhesive between roof drains; adhere cover board in ribbons of foam adhesive; fully adhere 80-mil TPO, single ply roof membrane; provide flashings, accessories and sheet metal trim as described above.
 - 2. Survey building interior to properly locate conduit on the underside of the steel deck prior to mechanical attachment and/or termination of roof membrane at penetrations or any installation of fasteners penetrating steel deck.
- F. Asbestos Containing Roofing Materials (ACRM):
 - 1. ***The presence of Asbestos Containing Roofing Materials (ACRM) has been detected in test samples of the mastic adhering the vapor retarder to the steel deck on Area D2. The Contractor shall remove and dispose of all ACRM in a safe and legal manner.***
 - 2. It is the intention of these specifications that no asbestos bearing materials be incorporated into the work. In the event the contractor should determine

unanticipated asbestos bearing materials to be present in the existing building components, Contractor is to stop all work in the affected area, notify the Engineer and Owner, and provide temporary protection as required. Costs incurred, if any, due to the presence of hidden and/or unanticipated asbestos bearing materials will be authorized by Change Order to this contract.

- G. The contractor is responsible for all electrical, plumbing, mechanical, and other related trade work necessary to facilitate project operations. Contractor is responsible for re-locating any and all conduit, HVAC equipment, curbs, and/or plumbing necessary to comply with the requirements of these documents. All work shall conform to the requirements of the current Building Code approved in the State of the project location.
- H. General requirements and specific recommendations of the material manufacturers are included as part of these specifications. The manufacturers' specifications are the minimum standards required for the completed systems. Specific items listed herein may improve the standards required by the manufacturers and will take precedence where their compliance will not affect the manufacturers' guarantee or warranty provisions.

1.03 CONTRACT

- A. Project will be constructed under a single prime general construction contract.

1.04 TIME FOR COMPLETION

- A. Contractor shall commence work on this project no sooner than June 10, 2016 with all work being substantially complete by August 12, 2016. Contractor is subject to liquidated damages in the amount of \$250.00 per calendar day for each day in excess of the substantial completion deadline.
- B. Final completion all work shall be obtained by August 26, 2016. Contractor is subject to liquidated damages in the amount of \$250.00 per calendar day for each day in excess of the final completion.
- C. *Inclement Weather:*
 - 1. *The construction duration includes a total of fifteen (15) inclement weather days.*
 - 2. *Inclement Weather is defined as follows:*
 - a. *Temperature less than 39 degrees and rising.*
 - b. *Percent chance of rain or actual rain event greater than 30% for more than four hours of the work day. Forecast utilized for determination shall be no sooner than the day before.*
 - c. *Wind speed greater than 15 MPH.*
 - 3. *Source for weather forecast and history shall be Ray's Weather Center at UNC-Asheville.*
 - 4. *Claims for additional Contract Time shall be submitted to the Engineer and Owner for review. Claims will only be considered for review for weekdays and if the Critical Path schedule for the project is affected by the inclement weather. Claims shall be submitted weekly; claims not submitted on a weekly basis will not be considered for review.*

1.05 SITE INVESTIGATION

- A. The Contractor acknowledges that he has satisfied himself as to the nature and location of the Work, the general and local conditions, particularly those bearing upon transportation,

disposal, handling and storage of materials, availability of labor, water, electric power, roads and uncertainties of weather, ground water table or similar physical conditions at the site, the conformation and condition of the ground, the character, quality and quantity of surface and subsurface materials to be encountered, the character of equipment and facilities needed prior to and during the prosecution of the Work and all other matters which can in any way affect the Work or the cost thereof under this Contract. Any failure by the Contractor to acquaint himself with all the available information concerning these conditions will not relieve him from responsibility for estimating properly the difficulty or cost of successfully performing the Work. Field measurements shall be taken at the site by the Contractor to verify all data and conditions affected by the Work.

1.06 WORK UNDER OTHER CONTRACTS

- A. Separate Contract: Owner may award a separate contract for performance of certain construction operations at Project site.
- B. Contractor shall cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying Work under this Contract.

1.07 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 49-division format and CSI/CSC's "MasterFormat" numbering system.
 - 1. Section Identification: The Specifications use section numbers and titles to cross-reference Contract Documents. Sections in the Project Manual are in numeric sequence.; however, the sequence is incomplete. Consult the Table of Contents at the beginning of the Project Manual.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 - 2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01 11 00