ADDENDUM NUMBER 1

Date: April 29, 2015

Re: Close Building AHU Upgrades

University of South Carolina

A/E Proj. No.: 163290

Submitted By: Justin Varco, PE, CPD

Mechanical Design, Inc. 4403 Broad River Road Columbia, S.C. 29210

(803)731-9834 Fax: (803)731-9837

justin@mdi9834.com

The following items take precedence over referenced portions of the Contract Documents for the referenced project dated March 15th 2016, and, in executing a contract, shall become a part thereof.

Where any item called for in the documents is supplemented hereby, the original requirements shall remain in effect. All supplemental conditions shall be considered as added thereto.

Where any original item is amended, voided, or superseded hereby, the provision of such items not so specifically amended, voided, or superseded shall remain in effect.

General:

- 1. A non-mandatory Pre-Bid was held on 04/28/2016 at 11:00 am EST. Attached is a list of the attendees. A site visit was made available immediately following the pre-bid meeting.
- 2. All questions shall be submitted in writing to Mechanical Design prior to noon on May 4th.
- 3. If necessary a final addendum will be issued on May 6th.
- 4. Asbestos containing materials are present on items requiring demolition. Asbestos abatement will be procured by USC. The mechanical contractor shall coordinate all demolition work with the asbestos abatement crew. Please see the attached asbestos inspection report for additional information.

END OF ADDENDUM NO. 1

University of South Carolina Pre Bid Sign In Sheet Columbia, South Carolina

Project Name: Project Number: Pre Bid Date & Time:

Close Building AHU Upgrades H27-6117 50002911-2 April 28, 2016@ 11:00am

Name Company Name	Company Name		Address	Phone #	Email
John Gourdin Cullum Mechanical	Cullum Mechanical		3325 Pacifics	843-554-	
Gary Till Construction Inc. North Charleston Sc	Construction Inc.		North Churleston Sc	6499	bids & cullumine.com
JUSTIN VARCO MOI	MOT		4403 BREAD RIVER (803)731-9834	HE86-181(808)	justin 2 md. 9834. con
Josh Julite Cane 3414 August	Rahe	6.	3414 Augustan Huy (803) 260 del	1200 00% (50B)	Icondere whitecone co. net
B. B. Bull Ceregory Industrial 2124 College St Columbia, 55 2920	Ceregory Industrial 2	23	V	1971-847-EOP	903-748-1742 bbball@gregoryindustrial, com
Charles Quens Gregory Fralistial Wolmbia, St. 29205	bregary Frakstia/ Col	4 3		803-309-5535	M. 20 Contraction of the last
Troy Neters Use Co	28	20		808-	TNEBON DSC. Colu
Gren Know USC	\			- F FF	khoo Omeillox.sc.edi.
WARD Shumpart USC	45C		1)	37.3515	777.3515 WARDS QSL. edlu
Jones G. Herring I Walker - White, Inc.			402 Fairfield Rd.	8160-169	7402 Fairfield Rd. 691-0918 estimating a walker-white.com

****By signing this sheet you agree to receive information electronically.

University of South Carolina Pre Bid Sign In Sheet Columbia, South Carolina

Project Name: Project Number: Pre Bid Date & Time:

Close Building AHU Upgrades H27-6117 50002911-2

 umber:
 H27-6117 50002911-2

 e & Time:
 April 28, 2016@ 11:00am

SWMBE Contractor?	Name	Company Name	Address	Phone #	Email
S W M B E	Dany Wilks	IOW	4403 Brood River	0 2 721 8020	
S W M B E	ROSDICO MALADO	250	74.3 Groms	P(6):1(1:(00)	don-) emd 19579. Con
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***By signing this sheet you agree to receive information electronically.

FM00505532 *FM00505532*

USC Work Order

Description HAZ MAT SURVEY - CLOSE BUILDING AHU REPLACEMENT

Site COLUMBIA Assigned To JPROVENCE
Building 036 CLOSE-HIPP BUILDING Crew HAZMAT

Floor Room: Start Date Priority 5

Equipment Due date 11-JAN-16

Request Date 11-DEC-15 by JOYG

Request # FM00505532 Description HAZ MAT SURVEY - CLOSE BUILDING AHU REPLACEMENT

Parent WO #

CP Number 50002911-2 CLOSE BUILDING AHU REPLACEMENT

State/Internal Project Number H27-6117

Requestor KHOO, GEEN CHENG Project Manager KHOO, GEEN CHENG

Telephone 7-5818

Alternate

Telephone 777-5818

Estimated Cost \$0.00

Telephone Billing FIXED PRICE

Non-Available Time 53120-W811-57120 (2015-16 MAINTENANCE NEEDS ACT 2)

Task List

DATE WORK STARTED	CAUSE
DATE WORK COMPLETED	CONDITION
EQUIPMENT	

CLOSING REMARKS

BENCHSTOCK MATERIALS

Qty Description Price Per Unit

Supervisor's Approval

Note Date Title

14-MAR-16 HAZMAT SURVEY RESULTS

SURVEY DATE: 3/8/16

INSPECTOR #: DARRYL WASHINGTON II (BI-00568) AND ERIC MELARO (BI-01296)

STATUS: SCOPE OF WORK CONSISTS OF 1) REPLACE COILS 2) DRAIN PAN REPLACEMENT 3) CUT CONCRETE WALLS FOR ACCESS 4) ATTACH STAIRS TO ROOF 5) VALVE REPLACEMENT 6) FAN REPLACEMENT (IF FUNDING PERMITS) 7) PUMP REPLACEMENT (IF FUNDING PERMITS). THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS AND RESULTS FOLLOW.

CREAM MASTIC- POSITIVE FOR ASBESTOS

BLACK MASTIC-POSITIVE FOR ASBESTOS

TAN DUCT MASTIC- POSITIVE FOR ASBESTOS

TSI ELBOWS- NEGATIVE FOR ASBESTOS

INSPECTOR'S NOTES:

- ASBESTOS BLACK MASTIC WAS DETECTED ON FOAM GLASS ON CHILL WATER LINES. IF REMOVAL IS NECESSARY, PLEASE CONTACT USC HAZMAT FOR REMOVAL OF THIS MATERIAL.
- ASBESTOS BLACK MASTIC IS PRESENT UNDER THE DRAIN PAN AND MUST BE REMOVED BY A LICENSED ABATEMENT CONTRACTOR.
- ROOFING MATERIALS ARE PRESUMED POSITIVE FOR ASBESTOS UNTIL SAMPLING DATA IS AVAILABLE.
- BARE METAL AND BARE CONCRETE ARE NOT SUSPECT FOR ASBESTOS OR LEAD.
- USC INSPECTORS CAN WALK PROJECT WITH PROJECT MANAGER AND IDENTIFY ALL MATERIALS SAMPLED AND ITS EXACT LOCATIONS.

IF YOU ENCOUNTER ANY OTHER MATERIALS IN PLACE AND DEEM THEM SUSPECT FOR ASBESTOS AND/OR LEAD, PLEASE STOP WORK AND CONTACT THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT.

PLEASE NOTE THAT THE MATERIAL QUANTITY PROVIDED ON THE FIELD SHEET IS ONLY AN ESTIMATE FOR SAMPLING PURPOSES. THE QUANTITY SHOULD BE FIELD VERIFIED FOR ALL OTHER PURPOSES INCLUDING ABATEMENT.

REFER TO THE SURVEY RESULTS ATTACHED TO THE WORK ORDER FOR DETAILED INFORMATION.

12-JAN-16 ASBESTOS SUMMARY FOR CLOSE-HIPP BUILDING (036) – JANUARY 2016

ASBESTOS HAS BEEN FOUND IN THIS BUILDING. IF DISTURBED, ASBESTOS MAY BE HARMFUL TO YOUR HEALTH.

PLEASE DO NOT DISTURB THE FOLLOWING MATERIALS IN THIS BUILDING AS THEY HAVE BEEN FOUND TO CONTAIN ASBESTOS.

- JOINT COMPOUND / SHEETROCK
- PIPE INSULATION
- TEXTURED WALL MATERIAL
- BLACK DUCT MASTIC
- BLACK MASTIC UNDER FLOOR TILE

IF A BUILDING MATERIAL IS NOT LISTED, DO NOT ASSUME THAT IT DOES NOT CONTAIN ASBESTOS. IT MAY NOT HAVE BEEN TESTED.

FOR FURTHER INFORMATION. PLEASE CONTACT THE USC HAZMAT PROGRAM.

OrderID: 021601689



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

of South Carolina reet State/Province: SC	Third Party I	MSL-Bill to: ☑ Same ☐ Different ill to is Different note instructions in Comments** Billing requires written authorization from third party
00		Billing requires written authorization from third party
State/Province: SC		
	Zip/Postal Code:	: 29208 Country : US
mat	Telephone #: 8	03-509-3376
@mailbox.sc.edu	Fax #:	Purchase Order:
Hipp Bld	Please Provide F	Results: 🗌 Fax 🛛 Email
		Commercial/Taxable Residential/Tax Exempt
24 Hour 48 Hou dail ahead to schedule.*There is a pervice. Analysis completed in accordance orting limit. 1000 (<0.1%) 0 (<0.25%) 1000 (<0.1%) ble in NY) 8 (non-friable-NY)	TEM Qualitative	96 Hour 1 Week 2 Week TEM AHERA or EPA Level II TAT. You will be asked to sign s and Conditions located in the Analytical Price Guide. TEM - Bulk EPA 600/R-93/116 Section 2.5.5.1
	Control of the contro	nature:
Sample Location		Material Description
	ate: 3-9-16	Total # of Samples: Time:
	24 Hour	Turnaround Time (TAT) Options* – Plea 24 Hour

Controlled Document - Asbestos COC - R6 - 11/29/2012

Print Form

Reset Form



Sample Analysis
Type of Analysis: Lead / Asbestos Date:

Building #_____Building

Turn Around Time 24 HRS

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
∢	~	CREAM MASTIC	ON LOUVER IN UPPER SECTION OF WEST UNIT	Ŗ	O	<20 LIN FT	LOW
⋖	2	CREAM MASTIC	ON LOUVER IN UPPER SECTION OF WEST UNIT	¥	O	<20 LIN FT	TOW
A	က	CREAM MASTIC	ON LOUVER IN UPPER SECTION OF WEST UNIT	Ä	O	<20 LIN FT	TOW
В	4	BLACK MASTIC	AROUND MAIN HEATING DUCT WEST UNIT	¥	O	<10 LIN FT	LOW
ш	2	BLACK MASTIC	AROUND MAIN HEATING DUCT WEST UNIT	Ä	O	<10 LIN FT	MOT
В	9	BLACK MASTIC	AROUND MAIN HEATING DUCT WEST UNIT	Ä	O	<10 LIN FT	MOT
O	7	ISI	ON CHILL WATER LINES ELBOWS	ш	Ö	<10 LIN FT	TOW
O	∞	TSI	ON CHILL WATER LINES ELBOWS	ш	O	<10 LIN FT	LOW
O	თ	TSI	ON CHILL WATER LINES ELBOWS	ш	O	<10 LIN FT	LOW
۵	10	TAN DUCT MASTIC	MAIN SUPPLY DUCT IN ROOF AHU WEST	ш	O	<50 LIN FT	LOW
sense	License # BI-00568	FM00505532	Signature Office 3	Requestor	GEEN	GEEN KHOO	

Send lab results in PDF and CSV format as soon as possible to: asbestos@mailbox.sc.edu

Print Form

Reset Form

SOUTH

Some Anolesis

Sample Analysis
Type of Analysis: Lead / Asbestos Date:

Building #_

Turn Around Time

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
۵	7	TAN DUCT MASTIC	MAIN SUPPLY DUCT IN ROOF AHU WEST	ш	O	<50 LIN FT	MOT
٥	12	TAN DUCT MASTIC	MAIN SUPPLY DUCT IN ROOF AHU WEST	ш	O	<50 LIN FT	TOW
ш	13	BLACK MASTIC	ON LOUVER ALONG FLOOR ON WEST UNIT	Ą	O	<20 LIN FT	TOW
ш	41	BLACK MASTIC	ON LOUVER ALONG FLOOR ON WEST UNIT	¥	O	<20 LIN FT	TOW
ш	15	BLACK MASTIC (70	ON LOUVER ALONG FLOOR ON WEST UNIT	Ą	O	<20 LIN FT	MOT

Send lab results in PDF and CSV format as soon as possible to: asbestos@mailbox.sc.edu

Requestor

Signature

FM#

License #



EMSL Order: 021601689 Customer ID: UNSC62

Customer PO: Project ID:

Attention: USC Hazmat Phone: (803) 777-7000

University of South Carolina Fax: (803) 777-3990
743 Greene Street Received Date: 03/09/2016 11:45 AM

Columbia, SC 29208 Analysis Date: 03/09/2016

Collected Date:

Project: 36 Close Hipp Building

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

			Non-Asbe	stos .	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1	Cream Mastic	Gray Non-Fibrous	<1% Cellulose	97% Non-fibrous (Other)	3% Chrysotile
021601689-0001		Homogeneous			
2	Cream Mastic				Stop Positive (Not Analyzed)
021601689-0002					
3	Cream Mastic				Stop Positive (Not Analyzed)
021601689-0003					
4	Black Mastic	Black Fibrous	1% Cellulose	94% Non-fibrous (Other)	5% Chrysotile
021601689-0004		Heterogeneous			
5	Black Mastic				Stop Positive (Not Analyzed)
021601689-0005					
6	Black Mastic				Stop Positive (Not Analyzed)
021601689-0006					
7	TSI	Gray Fibrous	1% Cellulose 80% Min. Wool	19% Non-fibrous (Other)	None Detected
021601689-0007		Heterogeneous			
8	TSI	Gray Fibrous	1% Cellulose 80% Min. Wool	19% Non-fibrous (Other)	None Detected
021601689-0008		Heterogeneous			
9	TSI	Gray Fibrous	1% Cellulose 80% Min. Wool	19% Non-fibrous (Other)	None Detected
021601689-0009		Heterogeneous			
10	Tan Duct Mastic	Tan/Beige Non-Fibrous	1% Cellulose	96% Non-fibrous (Other)	3% Chrysotile
021601689-0010	T D (M ()	Homogeneous			
11	Tan Duct Mastic				Stop Positive (Not Analyzed)
021601689-0011					
12	Tan Duct Mastic				Stop Positive (Not Analyzed)
021601689-0012					
13	Black Mastic	Brown/Black Fibrous	2% Cellulose	90% Non-fibrous (Other)	8% Chrysotile
021601689-0013		Heterogeneous			
14	Black Mastic				Stop Positive (Not Analyzed)
021601689-0014					
15	Black Mastic				Stop Positive (Not Analyzed)
021601689-0015					
		•	·	•	

Initial Report From: 03/10/2016 09:10:03

PLM - 1.67 Printed: 3/10/2016 9:10 AM Page 1 of 2



EMSL Order: 021601689 Customer ID: UNSC62

Customer PO: Project ID:

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

Sample Description Appearance % Fibrous % Non-Fibrous % Non-Fibrous % Type

Analyst(s)

Nicole Shutts (7)

Stephen Bennett, 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. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial Report From: 03/10/2016 09:10:03