ADDENDUM NO. 1

PROJECT NAME: **Hamilton Hall Student Resource Center Renovation**
UNL PROJECT NUMBER: **C074P208**

CONSULTANT: HDR Architecture, Inc.
ADDRESS: 8404 Indian Hills Drive; Omaha, NE 68114-4098

DATE OF ISSUANCE: November 12, 2012
DATE OF BID OPENING: Tuesday, November 20, 2012

The bid documents dated October 26, 2012 for the above referenced project are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

GENERAL QUESTIONS:

1. What is considered noisy work?
   RESPONSE: Items like core drilling that may disturb adjacent spaces will need to be scheduled around occupant needs which may include work prior to 8:30 AM or after 5 PM or on weekends and non-school days.

2. Is there a needed completion date?
   RESPONSE: Completion prior to May 1, 2013 is preferred so that the same may be occupied before the summer sessions.

3. What is the space below the floor like?
   RESPONSE: The under floor access is provided by 18 x 18 access panels. There are fan coil units that provide heat to the area. It is 3 – 4 ft tall and not too congested.

4. What construction services are provided by UNL?
   RESPONSE: UNL service units will perform the following work:
   - Completely install the fire alarm system,
   - Install the card access devices with rough-in provided by the contractor,
   - Pull wire and finish out data locations and install wireless systems,
   - Furnish and install A/V components,
   - Key all contractor supplied cylinders and furnish the corresponding keys,
   - Completely install controls for HVAC systems and perform the balancing and commissioning of the space.

5. Is more information available about the chases?
   RESPONSE: The notes and video from the scoping of the chases can be downloaded at:
   The file 'chases.zip' (657.0 MB) is available until Tuesday, November 27, 2012 at-
   < http://dropbox.unl.edu/uploads/20121127/ef1d7e6dcfdef9dd/chases.zip >

6. Will the attendance roster from the Pre-bid be provided?
   RESPONSE: See attached sign in sheet.

MODIFICATIONS TO THE PROJECT MANUAL:

SECTION 08 71 00 – DOOR HARDWARE

1. Delete Paragraph 2.3, B, Keys.

2. Delete Paragraph 2.11, B Key Cabinet.

3. Delete Articles 2.12; Extra Material and Tools and 2.13; Operation Keying

4. Modify Paragraph 2.14, A:

2.14 HARDWARE SCHEDULE

A. LEGEND:

ITEM:	**MFGS:**	**APPROVED EQUAL:**
HINGES	HAGER	STANLEY, IVES, MCKINNEY
LOCKS	**SARGENT**/SCHLAGE	
CYLINDERS	**SARGENT**/SCHLAGE **(Primary)**	
EXIT DEVICES	VON DUPRIN	NO SUBSTITUTE
CLOSERS	LCN	NO SUBSTITUTE
KICK PLATES, PUSH, PULLS		ROCKWOOD IVES, BURNS, TRIMCO
STOPS	IVES	ROCKWOOD
CARD READER, DPS	BY OWNER	NO SUBSTITUTE
POWER SUPPLIES	BY OWNER/**ELEC.**	
MAGNETIC HOLD OPENS	LCN	NO SUBSTITUTE

5. Modify Paragraph 2.14, B, Hardware Set No. 2:

HARDWARE SET NO. 2 DOOR #227
(CLASSROOM FUNCTION)

6	EACH	HINGES	BB1279 5x4.5 NRP	**652**
2	EACH	EXIT DEVICES	**EL-WDC-9947L-F-LBR**	**626**
2	EACH	CYLINDER	20-787CP KEYWAY	626
2	EACH	CLOSERS	4111 CUSH	AL
1	EACH	BALANCE OF HARDWARE	BY DOOR SUPPLIER	
2	EACH	MAGNETIC HOLD OPENS	7850	AL
1	EACH	SMOKE GASKET	2050B	BLACK
2	EACH	DOOR POSITION SWITCH	**BY UNL**	
1	EACH	CARD READER	**BY UNL**	
2	EACH	KICKPLATE	8 INx2 IN LDW B4ECSK	630
1	EACH	LOCKABLE PULL	LP 3331 DBU x LENGTH	630
1	EACH	POWER SUPPLY	**BY UNL**	
2	**EACH**	**POWER TRANSFER**	**EPT-10**	

6. Delete Paragraph 3.3, B, 2

7. Delete Paragraphs 3.3, E Instruct Owner's Personnel and 3.3, F Prior to Substantial completion.....

SECTION 23 21 13 – HYDRONIC PIPING SYSTEMS

1. Add the following to Paragraph 2.1, A, 4, b:

   4) Pro Hydronic Specialties.

2. Add the following to Paragraph 2.1, A, 5, b:

   4) Pro Hydronic Specialties.

SECTION 23 31 13 – AIR DISTRIBUTION SYSTEM

1. Add the following to Paragraph 1.1, A.

   5. Sound attenuators.

2. Modify Paragraph 2.1, A, 8.

   8. Dampers (manual and backdraft):

3. Add the following to Paragraph 2.1, A, 8, b.

   7) Pottorff.

4. Add the following to Paragraph 2.1, A.

   11. Sound Attenuators:
       a. Base:
          1) Industrial Acoustics.
       b. Optional:
          2) AeroSonics.

5. Delete Paragraph 2.1, E. “Duct sealing tape”.

6. Add the following Article to Part 2 – PRODUCTS:

2.5 SOUND ATTENUATORS

A. Sound Attenuators:
1. Prefabricated, straight through design.
2. Airflow pressure drop and noise reduction (NR) values as indicated on drawings.
3. Size and shape as indicated on drawings.
4. Outer casing: 22 GA, minimum, galvanized steel.
5. Interior partitions or splitters: 24 GA, minimum, perforated galvanized steel.
6. Aluminum construction: At least 50 percent thicker than steel specified.
7. Use straight through air passages.
8. Use airtight construction.
   a. Make unit leakproof when subjected to differential air pressure of 8 IN WG between outside and inside.
   b. Weld lock joints or seams or fill with mastic.

B. Sound attenuators, noise reduction (NR) rating:
1. Tests made in such manner as to eliminate end reflections, beaming or directivity, flanking, standing waves, and room absorptions.
2. Test method may be either "in-duct with anechoic termination" or "reverberant rooms with tunnel between".
3. Size of units tested: Not smaller than 24 IN x 24 IN rectangular or 24 IN round outside, with full size connections.
4. Submit corroborative report of tests made in nationally recognized, qualified, independent testing laboratory approved by AMCA for airflow determinations.

C. Sound attenuators, airflow pressure drop rating:
1. Do not exceed pressure drop at specified airflow(s).
2. Base rating on results of tests made in manner to provide reliable data.
3. Basic setup: Standard code method as adopted by AMCA for testing fans.

D. Sound attenuators, acoustical fill:
1. Fill containment: totally encapsulated and sealed with a polymer film. Separate fill material from perforated baffle by a non-combustible, erosion resistant, acoustical stand-off. Refer to schedule for applicability.

SECTION 23 36 00 – AIR TERMINAL UNITS AND INDUCTION UNITS

1. Modify and Reissue the following specification “Section 23 36 00 – AIR TERMINAL UNITS AND INDUCTION UNITS,” attached.

END OF ADDENDUM NO. #1

University of Nebraska Lincoln

Meeting Attendance

FACILITIES PLANNING & CONSTRUCTION

Purpose: Pre- Bid Meeting

Project Name: HAH Resource Center Renovation Project Number: C074P208

Date: 11/8/2012 Time: 9:00 AM CST Location: HAH 548

Name	Organization	Phone	Fax	E Mail
Brooke Hay	UNL FPC	2-5182	2-5908	bhay2@unl.edu
Dan W. Hrebec	Cheever Construction	477 6745	477 2063	dan.hrebec@cheeverconstruction.com
Scott Johnson	Capitol City Electric	420-7455	420-7436	CCEKR@AOL.Com
Cori Wenhoff	IES Electric	402-890-4763		Cori@ieselectric.inc.com
Walt Broer	Walt Broer Const	4024355557	4352625	waltbroer@gmail.com
Ed Zusteria	Kingery Construction Co.	402-465-4400	465-4529	edz@kccbuilders.com
Nate Royuk	Kidwell Inc.	402-802-9429	402-475-9186	nroyuk@kidwell.us.com
Darien Miskin	Advanced Contracting	402-217-9200		Advancedheatandcool@yahoo.com
Barry Schmidt	Boyd Jones	402-261-5077	402-261-5862	bschmidt@boydjones.biz
Craig Brack	JK Electric	402-326-0801		
Dave Hinsley	HDR	402 399 1419		david.hinsley@hdrinc.com
David Autry	Meininger Fire Prot.	466-2616	466-2617	David@MFP-INC.com
Jeff Dush	Gregg Elec. Co.	476-6463	476-6491	jeff@greggelectric.net
David Potter	Progressive Elec	466-4222	466-4622	david@progressiveelectric.net

AD-1: Section 23 36 00; 11/12/12: Reissue Section 23 36 00 in its entirety.

SECTION 23 36 00

AIR TERMINAL UNITS AND INDUCTION UNITS (Reissued AD-1)

PART 1 - GENERAL

1.1 DESCRIPTION

A. Description of system:
   1. Air terminal units.

1.2 QUALITY ASSURANCE

A. Design and installation standards:
   1. ASHRAE Guide and Data Book – Systems and Equipment, current chapter on duct construction.
   2. Air Diffusion Council, ADC Standard 1062R2, Air Diffusing Equipment Test Code.
   3. Air Moving and Conditioning Association, AMCA Standard 210, Test Code for Air Moving Devices.
   4. ASHRAE Standard 70-72, Method of Testing for Rating the Air Flow Performance of Outlets and Inlets.
   5. NFPA-90A, Standard for the Installation of Air Conditioning and Ventilating Systems, current edition.
   6. SMACNA HVAC Duct Construction Standard - Metal and Flexible current edition.
   7. UL Publication No.181, Erosion Test Methods.
   8. ARI 885-98: Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets.

1.3 SUBMITTALS

A. Product data:
   1. Air Terminal units.

B. Contract closeout information:
   1. Operating and maintenance data.
   2. Owner instruction report.

PART 2 - PRODUCTS

2.1 MATERIALS - GENERAL

A. Acceptable manufacturers:
   1. Air terminal units:
      a. Base:
      b. Optional:
         1) Titus.
         2) Anemostat Air Products.
         3) Tuttle and Bailey.
         4) Krueger.
         5) Price.

AIR TERMINAL UNITS

A. Air terminal units - general: Factory assembled.
   1. Capacity: As indicated.

2. Noise level: Based on ARI 885-98. Refer to plans for scheduled values.
3. Operators: By UNL BSM.
   a. Field installed on units.
4. Acoustical fiber free liner:
   a. Comply with NFPA-90A for fire resistivity and UL Standard 181 for erosion.
   b. Fiber free detail.
5. Provide multi-point velocity pressure sensors with external pressure taps.
6. Valve adjustment: Field adjustable.

B. Heating and cooling coils for air terminal units: ARI certified, continuous plate or spiral fin type, leak tested at 300 PSI.
   1. Capacity: As indicated, based on scheduled entering water temperature.
   2. Headers: Copper or brass.
   3. Fins: Aluminum, maximum 8 fins per IN.
   4. Tubes: Copper, arrange for counter-flow of heating water.
   5. Water velocity: 8 FPS maximum with head loss not greater than indicated.
   6. Provide 20 GA galvanized steel casing with slip and drive construction for attachment to metal ductwork.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install units as indicated and in accordance with manufacturer's recommendations and instructions and as specified.

END OF SECTION