BRACKEN LIBRARY MASONRY AND ROOF REPAIRS
PHASE III

BALL STATE UNIVERSITY
Muncie, Indiana 47306

Project No.: 2018-057.01 BL

Owner:
Facilities Planning and Management
Ball State University
Muncie, IN 47306

Engineer/Architect:
ARSEE Engineers, Inc.
9715 Kincaid Drive, Suite 100
Fishers, IN 46037-9459

ADDENDUM No. 1
Issued: April 25, 2018
This addendum is issued in accordance with the provisions of Division 0 - Bidding and Contract Requirements of the Project Manual - Technical Specifications, and becomes a part of the Contract Documents as provided therein.

Acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject the Bidder to disqualification.

I. DRAWING CHANGES
   A. Delete sheets A100 and R202 and replace with sheets A100 (revised) and R202 (revised).

II. PROJECT MANUAL CHANGES
   A. Insert Section 11 01 00 Fall Protection Anchors

III. QUESTIONS AND CLARIFICATIONS
   A. CLARIFICATIONS – None.
   B. QUESTIONS – None.

IV. ATTACHMENTS
   A. Pre-bid meeting agenda.
   B. Pre-bid meeting sign-in sheet.
   C. Specification Section 11 01 00 Fall Protection Anchors
   D. Sheet A100 (revised)
   E. Sheet R202 (revised)

END OF ADDENDUM 1
Bracken Library Masonry and Roof Repairs Phase III
Ball State University
BSU Project No. 2018-057.01 BL
April 20, 2018

AGENDA

I. Project Team
   A. Owner’s Representative(s):
      Kelly Knable, Facilities Planning & Mgmt, 765-285-0585, email: kaknable@bsu.edu
      Ryan Koenker, Facilities Planning & Mgmt, 765-285-2821, email: rkoenker@bsu.edu
      June Sanders, Purchasing, 765-285-1548, email: jasanders3@bsu.edu
   B. Consultant’s Representative(s):
      Scott Drake, ARSEE Engineers, Inc. 317-594-5152, email: sdrake@arsee-engineers.com

   A. Availability of Contract Documents.
   B. Interpretation of Contract Documents.
   C. Addenda.
   D. Substitutions.

III. Bidding Procedures.
   A. Bidding Date: May 1, 2018 @ 11:00 A.M. EDT
      Location: Purchasing Conference Room
      Service & Stores Building
      3401 N. Tillotson Avenue
      Muncie, Indiana 47306
   B. Bidding Form and Other Documents.
      1. Indiana Form 96 (Revised 2013).
         a. Fill out Part II., Section I. Experience Questionnaire
         b. Fill out Part II., Section II. Plan and Equipment Questionnaire
         c. Attach Part II., Section III. Contractor’s Financial Statement.
         d. Fill out Part II., Section IV. Contractors Non – Collusion Affidavit
         e. Fill out Part II., Section V. Oath and Affirmation
      2. Bid Form Supplements, Document 00 43 00
         Appendix A.
            (1) Acknowledgment of Receipt of Addenda.
            (2) Project Completion
            Appendix B. Alternatives, a alternates
            Appendix C. Unit Prices
            Appendix D. Principal Subcontractors
            Appendix E. Supplementary General Construction Information
            Appendix F. Supplementary Mechanical Information
            Appendix G. Supplementary Electrical Information
            Appendix H. Supplementary Telecommunications Information
      3. Representations and Certifications, Document 00 45 00
         Appendix 1. Nondiscrimination Compliance Statement
         Appendix 2. Contractors Certification of Self Performance
         Appendix 3. Contractors Certification of Authorized Employment
         Appendix 4. Drug Testing Plan
         Appendix 5. Contractors Certification of Training Program Compliance
         Appendix 6. Contractors Certification of Pre-Qualification Compliance
         Appendix 7. Bidder’s Check List
      4. MBE/WBE/Veteran Participation Plan, Document 00 45 39

IV. Scope of Project.
   A. Summary of Work.
   B. Project Schedule.
C. Access to Project Area.
D. Coordination with Other Projects.
E. Coordination with Owner Occupancy.

V. Questions.

VI. Tour of Project Site.

End of Agenda
<table>
<thead>
<tr>
<th>NAME</th>
<th>REPRESENTING</th>
<th>PHONE NUMBER</th>
<th>EMAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelly Knabe</td>
<td>BSU</td>
<td>219-240-0994</td>
<td>kaa <a href="mailto:knabe@bsu.edu">knabe@bsu.edu</a></td>
</tr>
<tr>
<td>Scott Drake</td>
<td>Aserc Engineers</td>
<td>317-594-5152</td>
<td><a href="mailto:sdrake@aserc-engineers.com">sdrake@aserc-engineers.com</a></td>
</tr>
<tr>
<td>Kelly Evans</td>
<td>Blackmore &amp; Buckner</td>
<td>219-916-2035</td>
<td><a href="mailto:kevans@blackmore.com">kevans@blackmore.com</a></td>
</tr>
<tr>
<td>Larry Kuzma</td>
<td>McGuff Roofing</td>
<td>765-289-2145</td>
<td><a href="mailto:mcguff@comcast.net">mcguff@comcast.net</a></td>
</tr>
<tr>
<td>Brandon Roberts</td>
<td>BSU - Purchasing</td>
<td>765-285-1558</td>
<td><a href="mailto:elroberts@bsu.edu">elroberts@bsu.edu</a></td>
</tr>
<tr>
<td>NAME</td>
<td>REPRESENTING</td>
<td>PHONE NUMBER</td>
<td>EMAIL ADDRESS</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------</td>
<td>--------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>Jeremy Morris</td>
<td>Trisco Systems</td>
<td>561-242-9068</td>
<td><a href="mailto:jeremy_morris@trisco-systems.com">jeremy_morris@trisco-systems.com</a></td>
</tr>
<tr>
<td>George Sutt</td>
<td>Blakley's</td>
<td>317-727-2605</td>
<td><a href="mailto:george.sutt@blakleys.com">george.sutt@blakleys.com</a></td>
</tr>
<tr>
<td>Don Anderson</td>
<td>Advanced Vacuum Services</td>
<td>312-593-4327</td>
<td><a href="mailto:donanders@advancedvacuum.com">donanders@advancedvacuum.com</a></td>
</tr>
<tr>
<td>Keith Roberts</td>
<td>Wells Masonry Restoration, Inc</td>
<td>317-672-7790</td>
<td><a href="mailto:keith.roberts@wells-masonry.com">keith.roberts@wells-masonry.com</a></td>
</tr>
<tr>
<td>Austin Roe</td>
<td>R. Adams Roofing</td>
<td>317-548-7653</td>
<td><a href="mailto:austin.r@adamsroofing.com">austin.r@adamsroofing.com</a></td>
</tr>
<tr>
<td>Jim Sanders</td>
<td>BSU Purchasing</td>
<td>765-285-1548</td>
<td><a href="mailto:jsanders@bsu.edu">jsanders@bsu.edu</a></td>
</tr>
</tbody>
</table>
SECTION 11 01 00
FALL PROTECTION ANCHORS

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes: Design, fabrication, and installation of the following:
   1. Single point roof anchors for attachment of fall restraint and fall arrest systems for worker safety.

B. Related Requirements:
   1. 07 50 00 – SBS MODIFIED BITUMINOUS MEMBRANE ROOFING

1.2 REFERENCES

A. American National Standards Institute (ANSI)

B. American Society of Testing Materials (ASTM)
   1. A36 “Standard Specification for Carbon Structural Steel"
   2. A53 "Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless"
   4. A312 “Specification for Seamless and Welded Austenitic Stainless Steel Pipes”
   5. ASTM A167 “Specification for Stainless and Heat Resisting Chromium Nickel Steel Plate, Sheet and Strip”
   7. ASTM A492 “Standard Specification for Stainless Steel Rope”
   8. ASTM A240
   9. ASTM A666

C. American Welding Society (AWS)
   1. AWS D1.1 “Structural Welding Code—Steel,” latest edition

D. Occupational Safety and Health Administration (OSHA)
   3. OSHA Standards 29 CFR 1926, Subpart M, “Fall Protection”

1.3 SUBMITTALS

A. Product Data: For each type of fall prevention device specified, including manufacturer's standard fabrication details and installation instructions.
B. Shop Drawings: Show layout, profiles, and anchorage details.

C. Certificates: Submit certification signed and sealed by a structural engineer licensed in the state of which the project is being completed, that the system has been designed to meet specified performance requirements.

D. Maintenance Data: Written instructions for maintenance of fall prevention safety devices to be included in the operation and maintenance manual.

1.4 QUALITY ASSURANCE

A. Manufacturer.

1. Firm having at least 10 years continuous experience in manufacturing fall safety equipment similar to systems specified and exhibiting records of successful in-service acceptability and performance.

2. Firm capable of providing field service representation during construction and approving application method.

B. Installer: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.


D. Testing: Perform quality control tests for each system per manufacturer’s requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Material delivery shall be coordinated with the General Contractor.

B. Comply with manufacturer’s ordering instructions and lead-time requirements to avoid construction delays.

C. Deliver materials in manufacturer’s original packaging with identification labels.

D. Store materials in a protected area out of harmful weather and harmful chemicals.

1.6 SITE CONDITIONS

1.7 WARRANTY

A. Submit a written warranty signed by the manufacturer and the installer, guaranteeing to correct failures in materials and workmanship that occur within the warranty period, including those attributable to abnormal aging, without reducing or otherwise limit any other rights to correction that the Owner may have under the contract documents.

PART 2 – PRODUCTS

2.1 ROOF ANCHOR ASSEMBLY

A. Manufacturers

2. Approved equal.

B. Description: Anchor post assembly with inverted U-bar suitable for safety snap connection by individual workers

C. Performance Requirements

1. General: Provide roof anchors capable of withstanding loads and stresses within limits and under conditions specified in OSHA and other applicable safety codes, and as follows
   2. Anchor to resist a 5,000 lb. load in any direction without detachment or fracture occurring. This load is considered to be an ultimate peak dynamic load. Yielding of the anchor and structure in the event of a fall is not precluded.
   3. Anchor to resist a 1,000 lb. static load in any direction without yielding. Minimum safety factor against permanent deformation: 2.0
   3. Anchor to accept a safety snap connection by individual workers.

D. Materials

   1. Steel Piping: ASTM A304, Type 304 stainless steel with 30 ksi minimum yield strength
   2. Safety U-bar: ASTM A276, Type 304 stainless steel
   3. Steel Base Plate: ASTM A304, Type 304 stainless steel with 30 ksi minimum yield strength

E. Manufactured Assemblies

   1. Guardian CB custom roof anchor or approved equal

E. Fabrication

   1. Fabricate work true to dimension, square, plumb, level, and free from defects.
   2. Welding to be executed in accordance with AWS D1.1 by welders who are certified in accordance with AWS D1.1 for the weld types and positions involved. All welds are subject to approval by the Engineer.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine framing and substrate and verify conditions comply with structural requirements for proper system performance.

B. Proceed with installation of anchors only after verifying conditions are satisfactory.

3.2 PREPARATION

A. Prepare surfaces using the methods recommended by the manufacturer for achieving satisfactory substrate conditions.

B. Proceed with installation of roof anchors only after verifying conditions are satisfactory.

3.3 INSTALLATION

A. Installation of Anchor Posts to be performed by contractor according to manufacturer’s
instructions and recommendations.

B. Field welding to be executed in accordance with AWS D1.1 by welders who are certified in accordance with AWS D1.1 for the weld types and positions involved. All welds are subject to approval by the Engineer.

C. Coordinate placement of roofing system insulation and flashings to ensure watertight integrity to roof.

3.4 FIELD QUALITY CONTROL

A. Testing: Test on site 100% of anchors relying upon chemical adhesive fasteners using load cell test apparatus in accordance with manufacturer’s written recommendations.

3.5 ADJUSTING

A. Adjust system devices as required by manufacturer. Replace damaged or malfunctioning items.

B. Provide plan drawings with any deviations in anchor locations as installed.

END OF SECTION