ADDENDUM NO. 2
JULY 20, 2018

PREPARED BY SCHMIDT ASSOCIATES FOR:
NORTH WEST RESIDENCE HALL 1
BALL STATE UNIVERSITY

This Addendum consists of a total of 34 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

A. SECTION 001100 – NOTICE TO BIDDERS

1. See attached document "PROJECT MANUAL CHANGES".

B. SECTION 003300 – CONTRACT SCOPES OF WORK

1. See attached document "PROJECT MANUAL CHANGES".

2.2 DIVISION 05 – METALS

A. Section 057500 “DECORATIVE FORMED METAL”

1. DELETE AND REPLACE Paragraph 2.5 A. in its entirety with the following:

“A. General: Provide fixed, horizontal aluminum, airfoil blade, decorative metal sun control device fin.”

2.3 DIVISION 07 – THERMAL AND MOISTURE PROTECTION

A. Section 071326 “SELF-ADHERING SHEET WATERPROOFING”
1. ADD Subparagraph 2.2 A. 1. g. as follows:
   “g. Polyguard Products, Inc.; Polyguard 650.”

B. **Section 075419 “POLYVINYL-CHLORIDE (PVC) ROOFING”**
1. ADD Subparagraph 2.3 A. 1. e. as follows:
   “e. GAF; EverGuard PVC.”

2.4 **DIVISION 09 – FINISHES**

A. **Section 095113 “ACOUSTICAL PANEL CEILINGS”**
1. DELETE AND REPLACE Subparagraph 2.2 A. 1. in its entirety with the following:
   “1. Tundra (303), Armstrong World Industries, Inc.”
2. DELETE AND REPLACE Paragraph 2.2 G. in its entirety with the following:
   “G. Edge Detail: Tegular.”
3. DELETE Article 2.5 in its entirety.
4. DELETE AND REPLACE Paragraph 2.4 B. in its entirety with the following:
   “B. Species/Finish: Light Cherry.”

2.5 **DIVISION 10 – SPECIALTIES**

A. **Section 102800 “TOILET, BATH, AND LAUNDRY ACCESSORIES”**
1. DELETE AND REPLACE Section per the attached.

2.6 **DIVISION 22 – PLUMBING**

A. **Section 221123.13 “DOMESTIC-WATER PACKAGEED BOOSTER PUMPS”**
1. ADD Subparagraph 2.1, A, 4.
   "4. Grundfos."

2.7 **DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)**

A. **Section 237201 “VAV CUSTOM AIR HANDLING UNITS”**
1. DELETE AND REPLACE Paragraph A in its entirety with the following:
   “A. Provide filter racks for 2” MERV 8 filters and for 12” MERV 14 final filters for the mixed air section.”
PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain unchanged.

3.1 C-SERIES DRAWINGS

A. Drawing Number CU102
   1. DELETE AND REPLACE Drawing per the attached.

3.2 A-SERIES DRAWINGS

A. Drawing Number AC1B1
   1. DELETE AND REPLACE Drawing per the attached.

B. Drawing Number AC1BA
   1. DELETE AND REPLACE Drawing per the attached.

C. Drawing Number AR100
   1. DELETE AND REPLACE Drawing per the attached.

D. Drawing Number A-314
   1. DELETE AND REPLACE Drawing per the attached.

E. Drawing Number A-315
   1. DELETE AND REPLACE Drawing per the attached.

F. Drawing Number A-318
   1. DELETE AND REPLACE Drawing per the attached.

3.3 M-SERIES DRAWINGS

A. Drawing Number MH1A1
   1. DELETE AND REPLACE Drawing per the attached.

B. Drawing Number MH1B1
   1. DELETE AND REPLACE Drawing per the attached.

C. Drawing Number MP1B1
   1. DELETE AND REPLACE Drawing per the attached.

D. Drawing Number M-403
1. DELETE AND REPLACE Drawing per the attached.

E. **Drawing Number M-602**
1. DELETE AND REPLACE Drawing per the attached.

F. **Drawing Number M-603**
1. DELETE AND REPLACE Drawing per the attached.

### 3.4 T-SERIES DRAWINGS

A. **Drawing Number T-601**
1. DELETE AND REPLACE Drawing T-601 per the attached.

**END OF ADDENDUM 2**
SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Public-use washroom accessories.
2. Public-use shower room accessories.
3. Private-use bathroom accessories.

B. Related Sections include the following:

1. Division 08 Section "Mirrors" for frameless mirrors.
2. Division 09 Section “Gypsum Board” for coordination of back-blocking requirements in gypsum board walls.
3. Division 09 Section "Tiling" for ceramic toilet and bath accessories.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include the following:

1. Construction details and dimensions.
2. Anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
3. Material and finish descriptions.
4. Features that will be included for Project.
5. Manufacturer’s warranty.

B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.

1. Identify locations using room designations indicated on Drawings.
2. Identify products using designations indicated on Drawings.

C. LEED Submittals:
1. Reference Division 01 Section "Sustainable Design Requirements - LEED v4 BD+C" for requirements.

1.4 QUALITY ASSURANCE

A. Source Limitations: For products listed together in the same articles in Part 2, provide products of same manufacturer unless otherwise approved by Architect.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

C. Accessible Components: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board’s ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1, including mounting, reach, and clearance requirements.

1.5 COORDINATION

A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.

B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver all toilet and bath accessory units to Project site in manufacturer’s original, unopened, protective containers or packages with legible labels identifying each product and manufacturer intact. Units shall include all mounting devices, fasteners, and all accessory items required to complete installation as shown and indicated.

   1. Units shall be clearly marked or numbered in accordance with Schedule in Contract Drawings.

   2. Deliver units to Project site in a timely manner to ensure orderly progress of the Work. Do not schedule shipment of units too early for their incorporation into the Work and thereby cause units to be stored on Site for prolonged period of time.

B. Handle all units in a manner that will prevent damage.

   1. Maintain protective coverings on all units until installation is complete. Remove coverings as part of final cleaning Work.

TOILET, BATH, AND LAUNDRY ACCESSORIES
PART 2 - PRODUCTS

2.1 MATERIALS

A. Stainless Steel: ASTM A 666, Type 304, 0.0312-inch minimum nominal thickness, unless otherwise indicated.

B. Steel Sheet: ASTM A 1008/A 1008M, Designation CS (cold rolled, commercial steel), 0.0359-inch minimum nominal thickness.

C. Galvanized Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip zinc coating.


E. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.

F. Mirrors: ASTM C 1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.

2.2 PUBLIC-USE WASHROOM ACCESSORIES

A. Basis-of-Design Product: The design for accessories is based on products indicated. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:

1. American Specialties, Inc.
2. Bobrick Washroom Equipment, Inc.
4. Gamco.
5. Partitions Systems, Inc. of South Carolina (PSiSC)

B. Toilet Tissue (Roll) Dispenser: Provided by Owner.

1. Contractor to provide blocking as required.

C. Combination Towel (Folded) Dispenser/Waste Receptacle:

2. Description: Combination unit for dispensing C-fold or multifold towels, with removable waste receptacle.
4. Minimum Towel-Dispenser Capacity: 600 C-fold or 800 multifold paper towels.
7. Liner: Reusable, vinyl waste-receptacle liner.
8. Lockset: Tumbler type for towel-dispenser compartment and waste receptacle.

D. Liquid-Soap Dispenser: Provided by Owner.
   1. Contractor to provide blocking as required.

E. Grab Bar:
   1. Basis-of-Design Product: Bobrick; B-68606.99
   3. Material: Stainless steel, 0.05 inch thick.
      a. Finish: Smooth, No. 4, satin finish on ends and slip-resistant texture in grip area.
   5. Configuration and Length: As indicated on Drawings.

F. Mirror Unit:
   1. Basis-of-Design Product: Bobrick; B-165
   2. Frame: Stainless-steel channel.
      a. Corners: Manufacturer’s standard.
      a. One-piece, galvanized steel, wall-hanger device with spring-action locking mechanism to hold mirror unit in position with no exposed screws or bolts.
   4. Size: As indicated on Drawings.

2.3 PUBLIC-USE SHOWER ROOM ACCESSORIES

A. Basis-of-Design Product: The design for accessories is based on products indicated. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
   1. American Specialties, Inc.
   2. Bobrick Washroom Equipment, Inc.
   4. Hafele.

B. Shower Curtain Rod: Provided by Owner.
   1. Contractor to provide blocking as required.
2.4 PRIVATE-USE BATHROOM ACCESSORIES

A. Basis-of-Design Product: The design for accessories is based on products indicated. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:

1. American Bathroom Accessories, Inc.
2. Bobrick Washroom Equipment, Inc.

B. Robe Hook Bobrick; B-983:

1. Description: Single-prong unit.

2.5 AIR DRYER

A. Basis of Design Product: Design for accessories is based on products indicated. Subject to compliance with requirements, provide named product or comparable product by one of following:

1. Student Restrooms:
   b. World Dryer Corp.
   c. Bradley Corp.
   d. Gamco.
   e. Saniflow Corp.
   f. Bobrick Washroom Equipment, Inc.

2. Public Restrooms:
   b. Excel Dryer Corp.
   c. Mitsubishi.
   d. World Dryer Corp.
   e. Bradley Corp.
   f. Gamco.
   g. Saniflow Corp.
   h. Bobrick Washroom Equipment, Inc.

B. Cover: One-piece, heavy-duty, rib reinforced, die-cast zinc alloy; lightweight, unbreakable, rustproof, and all exposed surfaces shall be finished with chip-proof, electrostatically applied epoxy paint and fastened to wall plate by two chrome-plated tamper-proof bolts.
2.6 LAUNDRY ACCESSORIES

A. Wall-Mount Iron Board:


2.7 FABRICATION

A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.

B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSPECTION

A. Prior to Work of this Section, inspect installed Work of all other related trades. Verify that all such Work is complete to point that Work of this Section can properly commence.

1. Verify that accessories may be installed in accordance with original design, all pertinent codes and regulations, and referenced standards.
2. Verify spacing of plumbing fixtures and toilet partitions that affect installation of accessories.

B. Discrepancies: In event of discrepancies, immediately notify Architect/Engineer.

1. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 INSTALLATION

A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

1. Anchorage shall be concealed whenever possible.
2. All evidence of drilling, cutting, and fitting of Work shall be concealed.
3. Fit flanges of accessories snug to wall surfaces. Provide for caulking of gaps between 90 degree return flanges and finish wall surface after accessories are installed.
B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to method in ASTM F 446.

3.3 ADJUSTING AND CLEANING

A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.

B. Remove temporary labels and protective coatings.

C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

END OF SECTION 102800
# General Roof Plan Notes

**ARCHITECTURAL PLAN NOTES**

**# NOTE**

**TYPICAL ROOF TYPE:**

- **ALL ROOF SYSTEMS ARE RT-A, UNLESS INDICATED**
- **25 05 50 00 - FALL PROTECTION, ROOFTOP ANCHOR.**
- **45 07 54 23 - FLEXIBLE ROOF WALKWAY PADS.**
- **46 07 54 19 - ROOF EXPANSION JOINTS, METAL COPING.**
- **52 07 72 00 - ROOF HATCH.**
- **64 08 62 00 - UNIT SKYLIGHT, 6' DIA.**
- **92 ROOF DRAIN; REFERENCE PLUMBING DRAWINGS.**

**B. MINIMUM INSULATION:**

- **LOW SLOPE ROOF AREAS SHALL HAVE A MINIMUM OF 5 INCHES OF INSULATION.**
- **PORTIONS OF FLAT ROOF DECK SHALL BE FORMED BY TAPERED INSULATION.**
- **HOWEVER, SHALL NOT BE CONSIDERED ALL INCLUSIVE. IT IS THE RESPONSIBILITY OF THE OWNER TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS TO PROVIDE INSULATION.**
- **SHALL NOT BE CONSIDERED ALL INCLUSIVE. IT IS THE RESPONSIBILITY OF THE OWNER TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS TO PROVIDE INSULATION.**

**C. FLASHING:**

- **WHERE UTILIZED, TAPERED INSULATION SHALL BE INSTALLED UNDER THE ROOF COVERING.**
- **IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS.**

**D. ROOF PENETRATIONS:**

- **FLASH ALL ROOF PENETRATIONS AND EQUIPMENT LOCATIONS.**
- **FLASHING MASTICS WILL NOT BE USED ON ROOF PENETRATIONS.**

**E. ROOF MANUFACTURER'S RECOMMENDATIONS:**

- **WHERE INDICATED AND REQUIRED.**
- **COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS TO PROVIDE INSULATION.**

**NOTES:**

- **PRODUCED BY: RJB**

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**KEY PLAN**

- **OVERALL ROOF PLAN**
- **ENLARGED WEST LOWER ROOF PLAN**
- **ENLARGED EAST LOW ROOF PLAN**

**BALL STATE UNIVERSITY**

- **New Residence Hall 1**

**SHEDD, R. Architectural Plan Notes**

- **Produced by RJB**

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**Muncie, Indiana 47306**

**Ball State University**

- **New Residence Hall 1**

**AR100**

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**ARCHITECTURAL PLAN NOTES**
MECHANICAL PIPING PLAN NOTES

P2 TERMINATE CONDENSATE AT FLOOR DRAIN LOCATED IN CHASE.

P3 CONDENSATE RISER ROUTES DOWN IN WALL TO FLOOR DRAIN LOCATED IN CHASE ON 2ND FLOOR.

1 1/4" CD FROM 2ND FLR ABOVE.

CO DEF-1

1 1/4" CD FROM 2ND FLR ABOVE.

1 1/4" CD CO DOWN FLR ABOVE.

BREAK 1 1/4" CD 1 1/4" CD 130D 4" HHWS/R TO FD.

VAV4-110 3/4" HHWS/R TO FD.

4-111 1 1/4" HHWS/R 1-1/4" HHWS/R 130

These Drawings and Specifications, and all copies of the Architect. They shall be used only with respect to

1 1/4" CD

1 1/4" CD

MECH

VAV4-105

1 1/4" CD

1 1/4" CD

130F

1 1/4" CD

1 1/4" CD

130E

1 1/4" CD

1 1/4" CD

130H

1 1/4" CD

1 1/4" CD

130B

1 1/4" CD

1 1/4" CD

130A

1 1/4" CD

1 1/4" CD

130K

1 1/4" CD
P2 TERMINATE CONDENSATE AT FLOOR DRAIN LOCATED IN CHASE.

POD 1 1/4" CD FROM 2ND

BSU #: 2017-022.01 NW1 07/05/2018

VAV3-110 CO

1 1/4" CD FROM 2ND

MUSIC 1 1/4" CD FLR ABOVE.

121 3/4" HHWS/R T

3-109

ACTIVITY T 124 MUSIC

FAB LAB FROM 2ND

104D UP TO PENTHOUSE.

CORRIDOR FROM 2ND

4-111 1 1/4"

111 1 1/4"

113 1 1/4"

thereof are and shall remain the property and copyright.

104C DN TO FD.

108B CO

1 1/4" CD DN FLR ABOVE.

VAV4-114 DRY

108A CO

1 1/4" CD

VAV3-113

VAV3-102

VAV3-112

3/4" HHWS/R 1/8" = 1'-0"

1" HHWS/R 1 1/4" CD DN

FLR ABOVE.

3-102

3-104

3-111

P1

1 1/4"

3/4" CHWS/R 3/4" HHWS/R 3/4" CD

PROVIDE CORNER TRIM AND EXTEND 3/4" PIPING BETWEEN FIN TUBE SECTIONS.

COORDINATE LOCATION OF SNOW MELT - UNIT B

1" GS/GR TO SNOW MELT MANIFOLD WITH 1" THICK INSULATION.

105 NH 4

VAV3-116 COVER 3/4" 1 1/4"

3/4" HHWS/R EXTEND

3-10

FTR3-10TO WALL.

3/4" HHWS/R TO WALL.

FROM 2ND 1-1/4" HHWS/R 3/4" HHWS/R EXTEND FTR3-5 TO WALL.

1-1/4" HHWS/R

1-1/4" VAV3-117 TO WALL.

1 1/4"

VAV3-116 COVER
NOTE: ALL SUPPLY, RETURN, AND EXHAUST RISERS THRU PENTHOUSE FLOOR DO NOT REQUIRE A FIRE DAMPER AT PENETRATION.

# NOTE
1 PROVIDE 1 POUND DENSITY FOIL REINFORCED LOADED VINYL DUCT WRAP ON THE OUTSIDE OF THE 2" FIBERGLASS BLANKET INSULATION (0.75 PCF DENSITY). FIBERGLASS BLANKET CAN BE INTEGRAL TO THE LOADED VINYL WRAP. OVERLAP THE LOADED VINYL WRAP 1" AT EACH SEAM. MANUFACTURED BY KINETICS, SOUND AWAY, SOUND SEAL, OR AUDIOSEAL. WRAP IS SHOWN WITH LIGHT GREY HATCHING.

2 DOUBLE WALL SHEET METAL SUPPLY AIR PLENUM. FIELD PROVIDED. 1" CLOSED CELL INSULATION BETWEEN WALLS. INNER WALL TO BE PERFORATED WITH MYLAR LINER.

3 PROVIDE CONICAL TAKE OFF FROM PLENUM. SEE SHEET M-404 FOR CONTINUATION.
**VAV BOX WITH HOT WATER REHEAT SCHEDULE**

NOTES:

FIRE PROTECTION, HEATING AND COOLING SYSTEM PIPING, AND WIRE

ALL AHU - 4 VAV BOXES SELECTED FOR INLET STATIC PRESSURE OF 1.0" MAX.

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**PROVIDE WITH MANUFACTURER'S 5' VAV3-104**

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**COOLING ONLY VAV BOX.**

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**VAV3-113**

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**PROJECT NO. BSU #: 2017-022.01**

**NW1**

**VAV4-110**

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**VAV4-115**

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**BOILER NOTES:**

- BOILER RETURN WATER TEMPERATURE SHALL BE 140 DEGREES OR CONDENSING BOILER. PROVIDE COPPER NICKEL HEAT EXCHANGER.

**PLATE & FRAME HEAT EXCHANGER SCHEDULE**

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<th>COLD SIDE DATA</th>
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- These Drawings and Specifications, and all copies of this Project and are not to be used on any other Project.

**E2 Addendum #2 07.20.2018**

- BOILER.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- MANUFACTURED TO 160 P.S.I.G. ASME SECTION IV.
- COORDINATE LOCATION OF UNIT ON ROOF WITH ALL OTHER.
- PROVIDE WIND BAFFLE FOR LOW AMBIENT OPERATION DOWN TO 0º O.A.T.
- COORDINATE POWER REQUIREMENTS WITH E.C.
- COORDINATE LOCATION OF UNIT ON ROOF WITH ALL OTHER.
- MANUFACTURER TO FURNISH MOTORIZED 2 POSITION ISOLATION CONTROLS.
- ELECTRIC PANEL FOR USE BY TCC.
- AIR INLET. MERV RATING NO GREATER THAN 4.0. SIZE: 25" X 16" X 1".
- REFRESH RATING NO GREATER THAN 4.0. SIZE: 25" X 16" X 1".
- CHECK FUNCTION, AND AUTO ADDRESSING FUNCTION.
- ELECTRIC PANEL FOR USE BY TCC.
- AIR INLET. MERV RATING NO GREATER THAN 4.0. SIZE: 25" X 16" X 1".
- REFRESH RATING NO GREATER THAN 4.0. SIZE: 25" X 16" X 1".
- COORDINATE LOCATION OF UNIT ON ROOF WITH ALL OTHER.
- MANUFACTURER TO FURNISH MOTORIZED 2 POSITION ISOLATION CONTROLS.
- ELECTRIC PANEL FOR USE BY TCC.
- AIR INLET. MERV RATING NO GREATER THAN 4.0. SIZE: 25" X 16" X 1".
- REFRESH RATING NO GREATER THAN 4.0. SIZE: 25" X 16" X 1".
PROJECT MANUAL CHANGES

SECTION 001100 – NOTICE TO BIDDERS

1. Contracts: Revise / Add paragraphs as follows:
   Contract #19 – Plumbing & HVAC (Combo Bid)

SECTION 003300 – CONTRACT SCOPES OF WORK

1. 1.02 CONTRACTS: Revise / Add paragraphs as follows:
   I. Contract No. 08 – Framing / Drywall / DFH / Overhead Doors

2. C. Contract No. 02 – Structural Concrete / Site concrete / Waterproofing / Dock Equipment: Revise / Add paragraphs as follows:
   14. Includes all grating and associated embeds for elevator sump pits and mechanical pit.

3. E. Contract No. 04 – Structural Steel / Miscellaneous Steel / Stairs: Revise / Add paragraphs as follows:
   23. Includes all grating and associated embeds for, but not limited to, elevator sump pits and mechanical pit.

4. I. Contract No. 08 – Framing / Drywall / DFH / Overhead Doors: Revise / Add paragraphs as follows:
   I. Contract No. 08 – Framing / Drywall / DFH / Overhead Doors

5. T. Contract No. 19 – Plumbing / HVAC (Combo Bid): Revise / Add paragraphs as follows.
   T. Contract No. 19 – Plumbing / HVAC (Combo Bid)

   1. Refer to Contract No. 16 – Plumbing and Contract No. 17 – HVAC for this combination scope of work

DOCUMENT 00 45 00 REPRESENTATIONS AND CERTIFICATIONS (BID)

1. ADD Document 00 45 00 in its entirety.

BID CLARIFICATIONS

1. The following Bid Clarifications are being made available to Bidders.
The following form must be submitted with the Bid along with additional copies as requested in the Project Manual.

To: Ball State University Board of Trustees
   Ball State University
   Muncie, IN 47306

Project: 2017-004.NWS – North West Residence Hall 1
BSU Project No. BSU Project No. 2017-022.01 NW1
Date: ___________________

Submitted by: (Bidder - please print the full name of your Proprietorship, Partnership, or Corporation
(full address)

LIST OF APPENDICES

In accordance with Document 00 21 14 - Instructions to Bidders (AIA A701) and Document 00 22 13 - Supplementary Instructions to Bidders (BSU A701), we include the Representations and Certifications Appendices listed below. The information provided shall be considered an integral part of the Bid Form.

All bidders shall submit with their Bid the following Appendices:

Appendix 1 Nondiscrimination Compliance Statement: Complete the included document.
Appendix 2 Contractor’s Certification of Self-Performance: NOT INCLUDED
Appendix 3 Contractor’s Certification of Authorized Employment: NOT INCLUDED
Appendix 4 Drug Testing Plan: Complete the included document.
Appendix 5 Contractor’s Certification of Training Program Compliance: NOT INCLUDED
Appendix 6 Contractor’s Certification of Pre-Qualification: NOT INCLUDED
Appendix 7 Bidder’s Check List: NOT INCLUDED
SUBMITTAL SCHEDULE OF APPENDICES

A. All bidders shall submit with their Bid the following Appendices:
   APPENDIX 1 – Nondiscrimination Compliance Statement
   APPENDIX 2 – Contractor’s Certification of Self-Performance
   APPENDIX 3 – Contractor’s Certification of Authorized Employment
   APPENDIX 4 – Drug Testing Plan
   APPENDIX 5 – Contractor’s Certification of Training Program Compliance
   APPENDIX 6 – Contractor’s Certification of Pre-Qualification
   APPENDIX 7 – Bidder’s Check List

REPRESENTATIONS AND CERTIFICATIONS SIGNATURE(S)

(Bidder - please print the full name of your Proprietorship, Partnership, or Corporation)

__________________________________________________________________________

(Authorized signing officer)

__________________________________________________________________________

(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF ____________________________ ss: ____________________________ (seal)
COUNTY OF ____________________________

________________________________________ being duly sworn, deposes and says that he/she is

________________________________________ of the above ____________________________ and that the statements

________________________________________ (Title) ____________________________ (Name of Organization)

contained in the foregoing Supplements to Bid Form are true and correct.

Subscribed and sworn to before me this ____________ day of ____________, ____________.

________________________________________ Notary Public

My Commission Expires: ____________________________

County of Residence: ____________________________
APPENDIX 1 - NONDISCRIMINATION COMPLIANCE

The Contractor and their Subcontractors and Suppliers shall perform, observe and comply with all applicable state, municipal, and federal laws, rules, regulations and Executive Orders pertaining to nondiscrimination against employees or applicants for employment because of race, color, religion, national origin, sex, disability, or ancestry. When required by such laws, rules, regulations, and Executive Orders, the Contractor and their Subcontractors and Suppliers shall include nondiscrimination provisions in all contracts and purchase orders.

The signature below hereby certifies full compliance with the conditions outlined in the paragraph above regarding nondiscrimination.

________________________________________
(Bidder - Please print full name of your proprietorship, partnership, or corporation)

________________________________________
(Name - Authorized Signing Officer)

________________________________________
(Title)

________________________________________
(Signature)

________________________________________
(Date)
APPENDIX 4 – DRUG TESTING PLAN

In accordance with Indiana Code 4-13-18 as amended, each Contractor that submits a bid for a public works project that is estimated to cost $150,000 or more is required to submit with the bid a written drug plan. Among other things, the law sets forth specific requirements that must be in the plan for a program to test the employees of the Contractor and Subcontractors for drugs. The successful Bidder must comply with all provisions of the statute or the contract is subject to cancellation. In addition, upon Owner’s Request Contractor will attach a Compliance Affidavit to each Application and Certification for Payment in accordance with 9.3.1.6, Document 0073 13 Supplementary Conditions.

I hereby certify that I have read and understand the “Drug Testing Program” provision of the General Conditions of the Contract. I understand that a written plan for a program to test employees of the Contractor and Subcontractors is required to be submitted with the bid and that each successful Bidder will be required to comply with all applicable provisions of Indiana Code 4-13-18 as amended or the Contract will be subject to cancellation.

(Bidder - Please print full name of your proprietorship, partnership, or corporation)

(Name - Authorized Signing Officer)

>Title

(Signature)

(Date)
<table>
<thead>
<tr>
<th>RFI #</th>
<th>RFI Received</th>
<th>Description</th>
<th>Response</th>
<th>RESPONSE BY</th>
<th>Response Included In:</th>
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</thead>
<tbody>
<tr>
<td>001</td>
<td>7/10/18</td>
<td>Is Shiel Sexton going to be providing a material hoist for the duration of the project?</td>
<td>No. All hoisting and rigging is the responsibility of the contractor.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>002</td>
<td>7/10/18</td>
<td>Section 092116.23 is not included in the Specifications. Please advise if this is the intent.</td>
<td>Section 092116.23 has not been included in the project.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>003</td>
<td>7/10/18</td>
<td>Please advise if drying-type drywall compound is acceptable in lieu of setting-type.</td>
<td>No. Reference 092900 2.6 C.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>004</td>
<td>7/10/18</td>
<td>Is APC5 supposed to be APC4? If not, please provide definition for APC5.</td>
<td>Reference Addendum #2.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>005</td>
<td>7/9/18</td>
<td>Detail 1B on drawing M502 shows the valve package outside of the fan coil cabinet on the horizontal units. However, the schedule on drawings M603 has a note, #14, stating extended end pockets for some of the horizontal fan coils. Extended end pockets are normally furnished for valve packages inside the unit enclosure. Will extended end pockets be required? Please advise.</td>
<td></td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>006</td>
<td>7/9/18</td>
<td>Please provide a tentative field schedule for steel erection services.</td>
<td>Reference Addendum #1 for Milestone Schedule.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>007</td>
<td>7/11/18</td>
<td>Specification section 057500 for metal fins indicates that these are to be vertical, drawings show fins as horizontal. Please clarify and provide additional attachment details.</td>
<td>Reference Addendum #2.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>008</td>
<td>7/11/18</td>
<td>Please provide circuiting information for gutter heat tape.</td>
<td>Reference Addendum #2.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>009</td>
<td>7/12/18</td>
<td>Who is responsible for fire and sound caulking MEP penetrations?</td>
<td>All trades are responsible for fire stopping around their own penetrations.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>010</td>
<td>7/12/18</td>
<td>Construction documents do not specify a species or finish for the woodworks ceiling. Please advise.</td>
<td>Reference Addendum #2.</td>
<td>Schmidt</td>
<td>X</td>
</tr>
<tr>
<td>RFI #</td>
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<td><strong>011</strong> 7/18/18 It appears that the Spray Applied Fireproofing may be occurring in the Winter months (does not show up in the schedule). Applied fireproofing must be installed with a minimum temperature of 44 degrees both during application and for 24 hours before and 24 hours after application (See Paragraph 1.7. A). Specifications call for Fireproofing not to be installed when conditions are not met. Will the fireproofing schedule be delayed until environmental conditions are met, or will Shiel Sexton be responsible for providing the heat, draping and ventilation required to maintain the minimum environmental conditions required for fireproofing installation?</td>
<td>X</td>
<td>Schmidt</td>
<td>Add. #1 Add. #2 Add. #3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>012</strong> Secton 078100 - Applied Fireproofing: Will the Owner or Shiel Sexton be providing and engaging an inspector to perform testing (thickness, bond-adhesion, density) of the Sprayed Fire-Resistant Materials. This testing was not mentioned in Section 078100.</td>
<td>X</td>
<td>SSP Add. #2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>013</strong> Section 078100-Paragraphs 2.3.E and 3.4.C specifies a Topcoat, as required by the Manufacturer. A Topcoat is not required by the Fireproofing Manufacturer, by Building Code, or by UL. Is a topcoat(or Sealer) required over the Applied Fireproofing anywhere on this project? If so, please provide locations.</td>
<td>X</td>
<td>Schmidt</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>014</strong> Section 078100-Paragraphs 2.1 and 3.4 specifies a Concealed SFRM, but does not specify an Exposed SFRM. Is the SFRM occurring at Exposed Locations to be the same material as specified at the Concealed SFRM, or will a Medium Density SFRM be required at Exposed locations?</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>015</strong> Does the Exposed Intumescent mastic Fire-resistant Material (Section 078100-paragraph 2.2) occur at any locations other than those shown on the Drawings?</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>016</strong> Section 05120 calls for the steel receiving the SFRM material to be unprimed. Will the steel receiving the Intumescent Fireproofing be primed with an approved primer, or will the Structural steel Installer be responsible for cleaning the steel scheduled to receive The Intumescent Fireproofing just prior to the steel receiving primer and the Intumescent Fireproofing?</td>
<td>Steel preparations for intumescent fireproofing are the reponsibility of Contract No. 05 - Fireproofing.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>017</strong> Will Shiel Sexton be providing Power and Potable water for use of the Fireproofing Applicator? If not, who will provide the Power and Water?</td>
<td>X</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td><strong>018</strong> Will Shiel Sexton be providing a Dumpster for the use of the Fireproofing Applicator? If not, who will provide the Dumpster?</td>
<td>Yes. Shiel Sexton will be providing dumpsters for the use of contractors. Removal of trash / excess debris from the building is the responsbility of the contractor.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>RFI #</td>
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<td>Description</td>
<td>Response</td>
<td>RESPONSE BY</td>
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<tr>
<td>019</td>
<td></td>
<td>Will Shiel Sexton be proving material and Man-hoists on the project to move equipment, material and manpower up and out of the Building, and for our use in removal of Overspray from the Building?</td>
<td>All hoisting and rigging is the responsibility of the contractor. Shiel Sexton will be providing two scaffold towers at fixed locations until permanent stairs are installed.</td>
<td></td>
<td>Schmidt X</td>
</tr>
<tr>
<td>020</td>
<td></td>
<td>Will Shiel Sexton be providing the portable Toilets for the project? If not, which package is providing them?</td>
<td>Yes.</td>
<td></td>
<td>SSP X</td>
</tr>
<tr>
<td>021</td>
<td></td>
<td>Will the Fireproofing contractor be required to participate in a composite Clean-up crew?</td>
<td>All on-site contractors will be required to participate in a composite clean-up crew if Shiel Sexton deems site conditions to be unsatisfactory.</td>
<td></td>
<td>Add. #1 X</td>
</tr>
<tr>
<td>022</td>
<td></td>
<td>How will Patching of Applied Fireproofing damaged by other trades be handled? Will Shiel Sexton be including an Allowance for this Patching? Does the Fireproofing Contractor need to include an allowance (How much?) for this patching, along with unit pricing?</td>
<td></td>
<td></td>
<td>Add. #2 X</td>
</tr>
<tr>
<td>023</td>
<td></td>
<td>Will other trades be responsible for protecting and cleaning their own work if they install their work out-of-sequence ahead of Applied fireproofing installation.</td>
<td>No. Fireproofing contractor will be responsible for protecting and cleaning installed material.</td>
<td></td>
<td>Add. #3 X</td>
</tr>
<tr>
<td>024</td>
<td></td>
<td>The schedule did not show the sequencing of the Applied Fireproofing. Please confirm that the Applied Fireproofing at the Roof Assemblies (where deck sprays) will be scheduled after the Roof Assembly is 100% Complete, and all Roof Construction Traffic has been completed.</td>
<td>Confirmed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>025</td>
<td></td>
<td>Sheet M-702: AHU 1 &amp; 2- Is Return Air Flow required? It is on the point list, but not the schematic. EA CFM on schematic not on point list.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>026</td>
<td></td>
<td>Sheet M-703: 3A calls for Valance Valves by TCC. M-603 Note 11 calls for valve by Manufacturer. Please clarify.</td>
<td></td>
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<td>027</td>
<td></td>
<td>Sheet M-703: Misc. – EF-1 &amp; EF-4-Do the Disinfectant systems have a dry contact available to monitor system “running” to accomplish Sequence?</td>
<td></td>
<td></td>
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<tr>
<td>028</td>
<td></td>
<td>Sheet M-703: Misc. – EF-2 How many 3D Printers in Fab Lab? Do Printers have a contact available to monitor “running” to accomplish sequence?</td>
<td></td>
<td></td>
<td></td>
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<td>RFI #</td>
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</tr>
<tr>
<td>029</td>
<td></td>
<td>Sheet M-703: 6A- Cannot locate 6 each Temperature and Pressure inputs on plumbing drawings. Please locate these 12 points.</td>
<td></td>
<td>X</td>
<td>Add. #1 Add. #2 Add. #3</td>
</tr>
<tr>
<td>030</td>
<td></td>
<td>Sheet M-601: Pump Schedule calls for Pump VFDs by Manufacturer. M-402 Note 7 calls for VFDs by TCC. Please clarify.</td>
<td></td>
<td>X</td>
<td>Add. #1 Add. #2 Add. #3</td>
</tr>
<tr>
<td>031</td>
<td></td>
<td>Is there TCC scope or sequence associated with Alternate # 14 PFX-1 &amp; PFX-2?</td>
<td></td>
<td>X</td>
<td>Add. #1 Add. #2 Add. #3</td>
</tr>
</tbody>
</table>