Addendum #1
Ball State University
Oakwood Renovation - 2018

Date: June 15, 2018
Project: Ball State Oakwood Renovation – 2018-020.01 OW
krM Project #: 18106
Pages: 21 (8-1/2x11) pages 19 (24x36) pages
Bid Dates: Thursday, June 28, 2018

General Note:
The original Specifications and Drawings dated June 07, 2018 for the project referenced above are amended as noted in this Addendum No. 1. Items revised by this addendum are to be noted delta 1. Receipt of this Addendum and any subsequent Addenda must be acknowledged on the Bid Form. Items changed or added by this addendum are to take precedence over the items or descriptions of the work in the project manual and the drawings. Items not mentioned in this addendum are to remain as described in the original plans and specifications.

A pre-bid meeting was held on 6/12/18 at the Purchaser’s Office on Ball State Campus. A walkthrough of the project site was held directly afterwards. The agenda of the meeting and a sign-in sheet are attached to this addendum.

Existing Roof Information:
Membrane Manufacturer/Product: Carlisle Syntec Systems / Sure-Flex KEE HP (60-mil)
Insulation Manufacturer/Product: Carlisle Syntec Systems / SecurShield POLYISO
Installer: McGuff Roofing, Inc.
610 E. Wysor St.
Muncie, IN 47305
P: (765) 289-2145
Warranty: Roof was replaced with Date of Substantial Completion of April 26, 2018. It is the Contractor’s responsibility to ensure that the existing roof warranty remains in effect at the conclusion of the project.

Specifications Items:

Section 00 01 10 Table of Contents
1. DELETE the following items from the table of contents:
   a. 26 56 19 LED Interior Lighting
2. ADD the following items to the table of contents:
   a. 01 78 00 Closeout Submittals
   b. 07 21 00 Thermal Insulation
   c. 12 36 00 Countertops
   d. 26 51 19 LED Interior Lighting
   e. 26 56 19 LED Exterior Lighting

Section 00 43 10 Bid Form Supplement
1. REPLACE page 4 in its entirety, as attached.
Section 01 23 00 Alternates

1. ADD paragraph 3.1-I as described below:
   a. Alternate Bid No. 7 – Finish West Suite
   Provide the change in price to add wall, ceiling, and floor finishes, as well as mechanical and electrical work for Open Suite 133 as indicated on the Drawings. The base bid shall include demolition of existing floor and ceiling finishes; demolition of electrical and mechanical systems. Provide VAV boxes and utility light fixtures only, as indicated on the Drawings.

Section 01 30 00 Administrative Requirements

1. DELETE reference to 1.4 FIELD ENGINEERING in its entirety.

Section 01 78 00 Closeout Submittals

1. ADD Section 01 78 00 in its entirety, as attached.

Section 02 41 00 Demolition

1. Reference 2.01/A. Revise as follows:
   a. A. Fill Material: As specified in section 31 23 00 – Excavation and Fill

2. Reference 3.04/C/4: Revise as follows:
   a. 4. Remove abandoned pipe, ducts, conduits, related supports, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.

Section 05 12 00 Structural Steel Framing

1. Reference 2.01/D: Replace with the following:
   a. D. Steel Plate: ASTM A108 Grade B.

Section 05 31 00 Steel Decking

1. Reference 1.05 Quality Assurance: Replace reference A. with the following:
   a. A. Fabricator Qualifications: A qualified steel fabricator that is accredited by the International Accreditation Service (IAS) Fabricator Inspection Program for Structural Steel in accordance with IAS AC172.

2. Reference 2.01/A Roof Deck: Add the following:
   a. 3. Minimum Base Metal Thickness: 22 gage, 0.0299 inch (0.76 mm).
   b. 4. Nominal Height: 1-1/2 inch (38 mm).
   c. 5. Profile: Fluted; SDI WR.

Section 05 50 00 Metal Fabrications

1. Reference 2.04: Replace with the following:
   a. A. Exterior Aluminum Surfaces: Class I color anodized.
   b. B. Class I Color Anodized Finish: AAMA 611 AA-M12C22A44 Electrolytically deposited colored anodic coating not less than 0.7 mils (0.018 mm) thick; medium bronze.
Section 06 42 00  Wood Paneling

1. Reference 2.05/D/1. Add the following:
   a. d. Products:
      i. 1) Sherwin-Williams Sher-Wood F3 Hi-Bild Precat Lacquer, Transparent, AWI Finishing System 2.

Section 07 21 00  Thermal Insulation

1. ADD specification section 07 21 00 in its entirety, as attached.

Section 07 92 00  Joint Sealants

1. Reference 2.02/A/2, Interior Joint Scope. Add the following:
   a. c. Joints between countertops, casework and dissimilar materials.
   b. d. Joints between walls and dissimilar materials.

Section 08 11 16  Aluminum Doors and Frames

1. Reference 2.01/A/5. Replace reference 5. with the following:
   a. 5. Finish: Class I – Natural Anodized
2. Reference 2.05, Finishes. Replace reference A. with the following:
   a. A. Class I Natural Anodized Finish: Clear anodic coating; AAMA 611 AA-M12C22A41, minimum dry film thickness 0.7 mils (0.018 mm).

Section 08 43 13  Aluminum Framed Storefronts

1. Reference 2.02/A/2. Replace reference2. with the following:
   a. 2. Finish: Class I – Natural Anodized

Section 08 71 00  Door Hardware

1. DELETE door #’s 133C, 133D, 133E from Hardware Group No. 05:
2. DELETE door # 133B from Hardware Group No. 08:

Section 08 80 00  Glazing

1. Reference 2.03/C. DELETE reference to G-3. Laminated security glazing is NOT required on this project.

Section 09 24 00  Cement Plastering

1. Reference 1.02/A. Replace reference A. with the following:
   a. A. Section 09 91 23 – Interior Painting.
2. Reference 2.03/A. Replace reference A. with the following:
   a. A. Lath: Provide standard product to match existing conditions for patching.

Section 09 51 00  Acoustical Ceilings

1. Reference 1.02. Replace references with the following:
   a. A. Section 21 13 13 – Wet-Pipe Sprinkler Systems: Sprinkler heads in ceiling system.
   b. B. Section 23 37 13 – Diffusers, Registers, and Grills: Air diffusion devices in ceiling system.
   c. C. Section 26 51 19 – LED Interior Lighting: Light fixtures in ceiling system.
Section 09 65 19  Resilient Tile Flooring
1. Reference 1.02/C. Delete reference to Section 07 95 13 – Expansion Joint Cover Assemblies.

Section 09 91 23  Interior Painting
1. Add the following:
   a. 1.02. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Provide complete list of products to be used, with the following information for each:
          1. Manufacturer’s name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
          2. MPI product number (e.g. MPI #47).
          3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
      iii. C. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
          1. Where sheen is specified, submit samples in only that sheen.
          2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens definitely not required.
      iv. D. Maintenance Materials: Furnish the following for Owner’s use in maintenance of project.
          1. See Section 01 60 00 - Product Requirements, for additional provisions.
          2. Extra Paint and Finish Materials: 1 gallon (4 L) of each color; from the same product run, store where directed.
          3. Label each container with color in addition to the manufacturer’s label.

Section 09 96 00  High-Performance Coatings
1. Add the following:
   a. 1.03. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Provide complete list of products to be used, with the following information for each:
          1. Manufacturer’s name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
          2. MPI product number (e.g. MPI #47).
          3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
      iii. C. Samples: Submit two samples [8 by 8] inch ([203 by 203] mm) in size illustrating colors available for selection.
Addendum #1
Ball State University
Oakwood Renovation - 2018

iv. D. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Paint and Finish Materials: 1 gallon (4 L) of each color; from the same product run, store where directed.
   3. Label each container with color in addition to the manufacturer's label.

Section 10 11 01   Visual Display Boards
1. Add the following:
   a. 1.03. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Provide manufacturer's data on markerboard, trim, and accessories.
      iii. C. Shop Drawings: Indicate wall elevations, dimensions, joint locations, special anchor details.

Section 10 21 13.19   Plastic Toilet Compartments
1. Add the following:
   a. 1.03. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Provide data on panel construction, hardware, and accessories.
      iii. C. Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall supports, door swings.

Section 10 26 01   Wall and Corner Guards
1. Add the following:
   a. 1.03. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Indicate physical dimensions, features, anchorage details, and rough-in measurements.
      iii. C. Samples: Submit two sections of corner guard, 24 inch (600 mm) long, illustrating component design, configuration, color and finish.

Section 10 28 00   Toilet, Bath, and Laundry Accessories
1. Delete reference 1.01/B. Electric hand/hair dryer.
2. Add the following:
   a. 1.03. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Submit data on accessories describing size, finish, details of function, and attachment methods.
Addendum #1
Ball State University
Oakwood Renovation - 2018

3. Reference 2.02 Commercial Toilet Accessories: Replace reference A. Soap Dispenser (OFOI) with the following:
   a. A. Waste Receptacle: Recessed, stainless steel, seamless lower door for access to container, with tumbling lock, reinforced panel full height of door, continuously welded bottom pan and seamless exposed flanges.
      i. 1. Liner: Removable seamless stainless steel receptacle.
      ii. 2. Minimum capacity: 12 gallons (45 liters).
      iii. 3. Products:
         2. b. Bobrick: B-3644.

4. Reference 2.02/C: Delete Seat Cover Dispenser.
5. Reference 2.03: Delete Electric Hand/Hair Dryers in its entirety.

Section 10 44 00 Fire Protection Specialties
1. Add the following:
   a. 1.03. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Provide extinguisher operational features, extinguisher ratings and classifications, and color and finish.
      iii. C. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.

Section 10 56 17 Wall Mounted Standards and Shelving
1. Add the following:
   a. 1.03. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Manufacturer's data sheets on each product to be used.

Section 12 24 00 Window Shades
1. Add the following:
   a. 1.03. SUBMITTALS.
      i. A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
      ii. B. Product Data: Provide manufacturer's standard catalog pages and data sheets including materials, finishes, fabrication details, dimensions, profiles, mounting requirements, and accessories.
      iii. C. Shop Drawings: Include shade schedule indicating size, location and keys to details.
      iv. D. Verification Samples: Minimum size 6 inches (150 mm) square, representing actual materials, color and pattern.
      v. E. Operation and Maintenance Data: List of all components with part numbers, sources of supply, and operation and maintenance instructions; include copy of shop drawings.
      vi. F. Warranty: Submit sample of manufacturer's warranty and documentation of final executed warranty completed in Owner's name and registered with manufacturer.
Addendum #1
Ball State University
Oakwood Renovation - 2018

Drawing Set Items:

**Sheet G0-2**
1. REPLACE Drawing 1, as shown in reissued sheet.

**Sheet L1-2**
2. REPLACE Drawing 1, as shown in reissued sheet.
3. REPLACE Drawing 7, as shown in reissued sheet.
4. ADD Drawings 8 and 9, as shown in reissued sheet.
5. REVISE Plan Notes Schedule, as shown in reissued sheet.

**Sheet L1-3**
1. REPLACE Drawing 1, as shown in reissued sheet.
2. REVISE Plan Notes Schedule, as shown in reissued sheet.

**Sheet S0-1**
1. ADD Drawing 7, as shown in reissued sheet.

**Sheet A1-0**
1. DELETE walls within room 133 West Alternate revision area, as shown on updated A1-1 Floor Plan.

**Sheet A1-1**
1. REPLACE Drawing 1, as shown in reissued sheet.
2. ADD Drawing 3, as shown in reissued sheet.

**Sheet A2-1**
1. REPLACE Drawing 1, as shown in reissued sheet.
2. ADD Drawing 3, as shown in reissued sheet.

**Sheet A2-2**
1. Reference Ceiling Types Schedule. DELETE from ACT-1 description, “And List of Finishes and Materials.”

**Sheet A2-3**
1. Reference Ceiling Types Schedule. DELETE from ACT-1 description, “And List of Finishes and Materials.”

**Sheet A8-1**
1. ADD comment to Door 133, “APPLY FILM F-1 TO ALL LITES IF WEST SUITE ALTERNATE NOT ACCEPTED”
2. DELETE Door 133B from Door Schedule entirely.
3. DELETE Door 133C from Door Schedule entirely.
4. DELETE Door 133D from Door Schedule entirely.
5. DELETE Door 133E from Door Schedule entirely.
6. REVISE Door 131B from Door Type D to Door Type C.
7. REVISE Door 131C from Door Type D to Door Type C.
8. REVISE Door 131D from Door Type D to Door Type C.
9. REVISE Door 131E from Door Type D to Door Type C.
10. REVISE Door 131G from Door Type D to Door Type C.

**Sheet A10-1**

**Sheet A11-1**
1. REPLACE Drawing 1, as shown in reissued sheet.
2. ADD Drawing 6, as shown in reissued sheet.

**Sheet A12-1**
1. REPLACE Drawing 1, as shown in reissued sheet.

**Sheet M3-1**
1. REPLACE sheet with reissued sheet.

**Sheet M3-4**
1. REPLACE sheet with reissued sheet.

**Sheet P1-1**
1. REPLACE sheet with reissued sheet.

**Sheet P3-1**
1. REPLACE sheet with reissued sheet.

**Sheet P3-2**
1. REPLACE sheet with reissued sheet.

**Sheet P6-1**
1. REPLACE sheet with reissued sheet.

**Sheet FP3-1**
1. REPLACE sheet with reissued sheet.

**Sheet E1-4**
1. REPLACE sheet with reissued sheet.

**Sheet E3-1**
1. REPLACE sheet with reissued sheet.

**Sheet E3-4**
1. REPLACE sheet with reissued sheet.

**Sheet E6-1**
1. REPLACE sheet with reissued sheet.
Bidder Questions:

1. "A3.1 – Note 5: Existing curb this area to be removed. Replace with curb to fit RTU. Cricket and curb flashing to integrate with existing roof. See Typical Curb Flashing Detail." Question: The curbs look to be new curbs. Can you verify that these do need replaced?
   a. RESPONSE: The existing curbs are not the same size as the new RTUs. All curbs will need to be replaced as indicated on the drawings.
2. There is a spec section 123600 Countertops in the spec but not in the index, which is correct?
   a. RESPONSE: The index will be reissued with Addendum 1. It will include 12 36 00.
3. Spec section 064100.1.01B is Countertops, is this a duplication of 123600?
   a. RESPONSE: Plastic Laminate countertops are included in 06 41 00. Solid surface counters in 12 36 00. Both are required.
4. Is BSU paying for the water tap fee or should it be included in our bid?
   a. RESPONSE: Contractors shall include the water tap fee in their bid.
5. Is BSU repairing the landscaping where the new water service comes onto the site?
   a. RESPONSE: Contractor to bring soil back to subgrade. BSU will provide top soil and grass seeding.
6. Are the blinds in Rooms 119 & 125 a part of the alternate or to be included in base bid?
   a. RESPONSE: Blinds for Rooms 119 and 125 will be included in base bid. See revised sheet A2-1.
7. Is the screen wall on the North side of the Gas House the alternate while the South side in base bid?
   a. RESPONSE: This is correct. The alternate also includes the canopy, larger steel columns, and associated foundations as detail in the structural drawings.
8. Are the alum tubes in detail 2/L1-2 to be clear anodized or are they to have a color and anodized?
   a. RESPONSE: Aluminum tubes in 2/L1-2 to be color anodized, see revision to specification section 05 50 00.

Attachments:

1. Pre-Bid Meeting Agenda and Sign-in Sheet (3 pages).
2. Specification Section 00 01 10 - Table of Contents (5 pages).
3. Specification Section 00 43 00 – Page 4 – Bid Form Supplements (1 page).
4. Specification Section 01 78 00 – Closeout Submittals (1 page).
6. Reissued drawings (19 Pages)
AGENDA

2018 Oakwood Building Renovation
Ball State University
BSU Project No. 2018-020.01 OW
Tuesday, June 12, 2018 @ 11AM

I. Project Team
A. Owner’s Representative(s):
   Greg Graham, Facilities Planning & Mgmt, 765-285-2828, email: ggraham@bsu.edu
   Kelly Knable, Facilities Planning & Mgmt, 765-285-0585, email: kaknable@bsu.edu
   June Sanders, Purchasing, 765-285-1548, email:jasanders3@bsu.edu
B. Consultant’s Representative(s):
   Stuart Godfrey, krM Architecture, 765-635-5870, email: sgodfrey@krmarchitecture.com

II. Contract Documents:
A. Project Manual and Drawings.
   Project Completion/Liquidated Damages – n/a
   Appendix B. Alternatives,
   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

III. Bidding Procedures.
A. Bidding Date: 6/28/2018 @ 11:00AM
   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
         (3) Project Completion/Liquidated Damages – n/a
      Appendix B. Alternatives,
      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.
      2. Multiple Alternates Discussion
   B. Project Schedule.
      1. Start – July 30, 2018
      2. Completion – December 1, 2018
   C. Access to Project Area & parking discussion.
   D. Coordination with Other Projects discussion.
   E. Coordination with Owner Occupancy discussion.

V. Questions.

VI. Tour of Project Site.

End of Agenda
### Ball State University

**Facilities Planning & Management**

**Pre-Bid Conference**

**SIGN-IN SHEET**

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**2018 Oakwood Building Renovation**  
**Ball State University**  
**BSU Project No. 2018-020.01 OW**  
**Tuesday, June 12, 2018 @ 11 AM**

<table>
<thead>
<tr>
<th>NAME</th>
<th>REPRESENTING</th>
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<th>EMAIL ADDRESS</th>
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# DOCUMENT 00 01 10

## TABLE OF CONTENTS (BID)

Ball State University, 2018 Oakwood Building Renovation
BSU Project No. 2018-020.01 OW

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 01 01</td>
<td>Project Title Page</td>
</tr>
<tr>
<td>00 01 10</td>
<td>Table of Contents</td>
</tr>
<tr>
<td>00 01 15</td>
<td>List of Drawing Sheets</td>
</tr>
</tbody>
</table>

## INTRODUCTORY INFORMATION

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 21 13</td>
<td>Notice to Bid</td>
</tr>
<tr>
<td>00 21 14</td>
<td>Instructions to Bidders – AIA A701</td>
</tr>
<tr>
<td>00 22 13</td>
<td>Supplementary Instructions to Bidders – BSU A701 (BID)</td>
</tr>
<tr>
<td>00 41 13</td>
<td>Bid Form – Indiana Form 96 – Revised</td>
</tr>
<tr>
<td>00 43 00</td>
<td>Bid Form Supplements (BID)</td>
</tr>
<tr>
<td>00 43 13</td>
<td>Bid Security Form – AIA A310</td>
</tr>
<tr>
<td>00 45 00</td>
<td>Representations and Certifications (BID)</td>
</tr>
<tr>
<td>00 45 39</td>
<td>MBE/WBE/Veteran Participation Plan</td>
</tr>
</tbody>
</table>

## PROCUREMENT REQUIREMENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 52 14</td>
<td>Agreement Form - AIA A101 Owner Contractor Agreement</td>
</tr>
<tr>
<td>00 54 00</td>
<td>Agreement Form Supplements – BSU A101 (BID)</td>
</tr>
<tr>
<td>00 61 00</td>
<td>Bond Forms – AIA A312 Performance Bond and Payment Bond</td>
</tr>
<tr>
<td>00 72 14</td>
<td>General Conditions - AIA A201 General Conditions of the Contract for Construction</td>
</tr>
<tr>
<td>00 73 13</td>
<td>Supplementary Conditions – BSU A201 (BID)</td>
</tr>
<tr>
<td>00 73 73</td>
<td>Escrow Agreement</td>
</tr>
<tr>
<td>00 90 00</td>
<td>Bidding, Contract and Administration Documents and Forms (BID)</td>
</tr>
</tbody>
</table>

## CONTRACTING REQUIREMENTS

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<thead>
<tr>
<th>Section</th>
<th>Title</th>
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<tbody>
<tr>
<td>01 10 00</td>
<td>Summary</td>
</tr>
<tr>
<td>01 20 00</td>
<td>Price and Payment Procedures</td>
</tr>
<tr>
<td>01 23 00</td>
<td>Alternates</td>
</tr>
<tr>
<td>01 30 00</td>
<td>Administrative Requirements</td>
</tr>
<tr>
<td>01 32 16</td>
<td>Construction Progress Schedule</td>
</tr>
<tr>
<td>01 33 00</td>
<td>Submittal Procedures</td>
</tr>
<tr>
<td>01 40 00</td>
<td>Quality Requirements</td>
</tr>
<tr>
<td>01 50 00</td>
<td>Temporary Facilities and Controls</td>
</tr>
<tr>
<td>01 57 26</td>
<td>Temporary Indoor Air Quality Controls</td>
</tr>
<tr>
<td>01 60 00</td>
<td>Product Requirements</td>
</tr>
<tr>
<td>01 70 00</td>
<td>Execution and Closeout Requirements</td>
</tr>
<tr>
<td>01 74 19</td>
<td>Construction Waste Management and Disposal</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>01 79 00</td>
<td>Demonstration and Training</td>
</tr>
<tr>
<td>02 06 23</td>
<td>Asbestos Survey</td>
</tr>
<tr>
<td>02 41 00</td>
<td>Demolition</td>
</tr>
<tr>
<td>03 30 00</td>
<td>Cast-in-Place Concrete</td>
</tr>
<tr>
<td>05 12 00</td>
<td>Structural Steel Framing</td>
</tr>
<tr>
<td>05 31 00</td>
<td>Steel Decking</td>
</tr>
<tr>
<td>05 50 00</td>
<td>Metal Fabrications</td>
</tr>
<tr>
<td>06 10 00</td>
<td>Rough Carpentry</td>
</tr>
<tr>
<td>06 41 00</td>
<td>Architectural Wood Casework</td>
</tr>
<tr>
<td>06 42 16</td>
<td>Wood Veneer Paneling</td>
</tr>
<tr>
<td>07 21 00</td>
<td>Thermal Insulation</td>
</tr>
<tr>
<td>07 41 13</td>
<td>Metal Roof Panels</td>
</tr>
<tr>
<td>07 42 13</td>
<td>Metal Wall Panels</td>
</tr>
<tr>
<td>07 84 00</td>
<td>Firestopping</td>
</tr>
<tr>
<td>07 92 00</td>
<td>Joint Sealants</td>
</tr>
<tr>
<td>08 11 13</td>
<td>Hollow Metal Doors and Frames</td>
</tr>
<tr>
<td>08 11 16</td>
<td>Aluminum Doors and Frames</td>
</tr>
<tr>
<td>08 14 16</td>
<td>Flush Wood Doors</td>
</tr>
<tr>
<td>08 14 33</td>
<td>Stile and Rail Wood Doors</td>
</tr>
<tr>
<td>08 43 14</td>
<td>Aluminum-Framed Storefronts</td>
</tr>
<tr>
<td>08 71 00</td>
<td>Door Hardware</td>
</tr>
<tr>
<td>08 80 00</td>
<td>Glazing</td>
</tr>
<tr>
<td>09 05 61</td>
<td>Common Work Results for Flooring Preparation</td>
</tr>
<tr>
<td>09 21 16</td>
<td>Gypsum Board Assemblies</td>
</tr>
<tr>
<td>09 22 16</td>
<td>Non-Structural Metal Framing</td>
</tr>
<tr>
<td>09 24 00</td>
<td>Cement Plastering</td>
</tr>
<tr>
<td>09 30 00</td>
<td>Tiling</td>
</tr>
<tr>
<td>09 51 00</td>
<td>Acoustical Ceilings</td>
</tr>
</tbody>
</table>
09 65 13  Resilient Base
09 65 19  Resilient Tile Flooring
09 68 13  Tile Carpeting
09 91 23  Interior Painting
09 96 00  High-Performance Coatings

DIVISION 10 – SPECIALTIES

10 11 01  Visual Display Boards
10 14 00  Signage
10 21 13.19  Plastic Toilet Compartments
10 26 01  Wall and Corner Guards
10 28 00  Toilet, Bath, and Laundry Accessories
10 44 00  Fire Protection Specialties
10 56 17  Wall Mounted Standards and Shelving

DIVISION 11 – EQUIPMENT

Not Used

DIVISION 12 – FURNISHINGS

12 24 00  Window Shades
12 36 00  Countertops

DIVISION 13 – SPECIAL CONSTRUCTION

Not Used

DIVISION 14 – CONVEYING EQUIPMENT

Not Used

DIVISION 21 – FIRE SUPPRESSION

21 05 17  Sleeves and Sleeve Seals for Fire-Suppression Piping
21 05 18  Escutcheons for Fire-Suppression Piping
21 05 23  General-Duty Valves for Fire Protection Piping
21 05 53  Identification for Fire-Suppression Piping and Equipment
21 11 00  Facility Fire-Suppression Water-Service Piping
21 13 13  Wet-Pipe Sprinkler Systems

DIVISION 22 – PLUMBING

22 05 17  Sleeves and Sleeve Seals for Plumbing Piping
22 05 18  Escutcheons for Plumbing Piping
22 05 23.12  Ball Valves for Plumbing Piping
22 05 23.13  Butterfly Valves for Plumbing Piping
22 05 23.14  Check Valves for Plumbing Piping
22 05 29  Hangers and Supports for Plumbing Piping and Equipment
22 05 53  Identification for Plumbing Piping and Equipment
22 07 19  Plumbing Piping Insulation
22 11 16  Domestic Water Piping
DIVISION 23 – HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

23 00 10 Basic Mechanical Requirements
23 00 60 HVAC Demolition
23 05 23 General Duty Valve for HVAC Piping
23 05 29 Hangers and Support for HVAC Piping and Equipment
23 05 53 Identification for HVAC Piping and Equipment
23 05 93 Testing, Adjusting, and Balancing for HVAC
23 07 13 Duct Insulation
23 07 19 HVAC Piping Insulation
23 09 00 Instrumentation and Control for HVAC
23 09 93 Sequence of Operations for HVAC Controls
23 11 23 Facility Natural-Gas Piping
23 21 13 Hydronic Piping
23 21 14 Hydronic Specialties
23 31 13 Metal Ducts
23 33 00 Air Duct Accessories
23 36 00 Air Terminal Units
23 37 13 Diffusers, Registers, and Grilles
23 74 13 Packaged Outdoor Central-Station Air-Handling Units
23 82 33 Conectors
23 82 36 Finned-Tube Radiation Heaters

DIVISION 25 – INTEGRATED AUTOMATION

Not Used

DIVISION 26 – ELECTRICAL

26 05 00 Common Work Results for Electrical
26 05 10 Electrical Demolition
26 05 19 Low-Voltage Electrical Power Conductors and Cables
26 05 26 Grounding and Bonding for Electrical Systems
26 05 29 Hangers and Supports for Electrical Systems
26 05 33 Raceways and Boxes for Electrical Systems
26 05 44 Sleeves and Sleeve Seals for Electrical Raceways and Cabling
26 05 53 Identification for Electrical Systems
26 09 23 Lighting Control Devices
26 24 16 Panelboards
26 72 26 Wiring Devices
26 28 13 Fuses
26 28 16 Switches and Circuit Breakers
26 51 19 LED Interior Lighting
26 52 13 Emergency and Exit Lighting
26 56 19 LED Exterior Lighting
**DIVISION 27 – COMMUNICATIONS**

Not Used

**DIVISION 28 – ELECTRONIC SECURITY AND SAFETY**

28 31 00 Fire Detection and Alarm System

**DIVISION 31 – EARTHWORK**

31 10 00 Site Clearing
31 22 00 Grading
31 23 16 Excavation
31 31 16 Termite Control

**DIVISION 32 – EXTERIOR IMPROVEMENTS**

32 12 16 Asphalt Paving
32 13 13 Concrete Paving
32 17 13 Parking Bumpers
32 17 23.13 Painted Pavement Markings
32 17 26 Tactile Warning Surfacing

**DIVISION 33 – UTILITIES**

Not Used

END OF TABLE OF CONTENTS
APPENDIX B - ALTERNATIVES

The following amounts shall be added to or deducted from the Base Bid Sum. Refer to Section 01 23 00 - Alternates: Schedule of Alternates.

Alternate No. 1
Site Improvements: Canopy and Extended Screen Wall

(Add) (Deduct) $ ________________

Alternate No. 2
Site Improvements: Pave Patio Area

(Add) (Deduct) $ ________________

Alternate No. 3
Finish Training Rooms

(Add) (Deduct) $ ________________

Alternate No. 4
Vitrify Existing Terrazzo

(Add) (Deduct) $ ________________

Alternate No. 5
Custom Finish RTUs

(Add) (Deduct) $ ________________

Alternate No. 6A
Temperature Control Contractor – Automated Logic Corporation

(Add) (Deduct) $ ________________

Alternate No. 6B
Temperature Control Contractor – Johnson Controls, Inc.

(Add) (Deduct) $ ________________

Alternate No. 6C
Temperature Control Contractor – Trane

(Add) (Deduct) $ ________________

Alternate No. 7
Finish West Suite

(Add) (Deduct) $ ________________

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Alternate No. 4
Vitrify Existing Terrazzo

(Add) (Deduct) $ ________________

Alternate No. 5
Custom Finish RTUs

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Temperature Control Contractor – Automated Logic Corporation

(Add) (Deduct) $ ________________

Alternate No. 6B
Temperature Control Contractor – Johnson Controls, Inc.

(Add) (Deduct) $ ________________

Alternate No. 6C
Temperature Control Contractor – Trane

(Add) (Deduct) $ ________________

Alternate No. 7
Finish West Suite

(Add) (Deduct) $ ________________
SECTION 01 78 00
CLOSEOUT SUBMITTALS

PART 1  GENERAL

1.01  SECTION INCLUDES
   A.  Warranties and bonds.

1.02  RELATED REQUIREMENTS
   A.  Section 00 72 00 - General Conditions and 00 73 00 - Supplementary Conditions: Performance bond and labor and material payment bonds, warranty, and correction of work.
   B.  Section 01 30 00 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
   C.  Section 01 70 00 - Execution and Closeout Requirements: Contract closeout procedures.
   D.  Individual Product Sections: Warranties required for specific products or Work.

1.03  SUBMITTALS
   A.  Warranties and Bonds:
      1.  For equipment or component parts of equipment put into service during construction with Owner’s permission, submit documents within 10 days after acceptance.
      2.  Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
      3.  For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

PART 2  PRODUCTS - NOT USED

PART 3  EXECUTION

3.01  WARRANTIES AND BONDS
   A.  Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.
   B.  Verify that documents are in proper form, contain full information, and are notarized.
   C.  Co-execute submittals when required.
   D.  Retain warranties and bonds until time specified for submittal.

END OF SECTION
PART 1 GENERAL

1.01 SECTION INCLUDES
A. Board insulation at exterior wall construction.
B. Acoustic batt insulation in interior metal stud wall construction.

1.02 REFERENCE STANDARDS

1.03 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data on product characteristics and performance criteria.

1.04 FIELD CONDITIONS
A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS

2.01 APPLICATIONS
A. Insulation at Existing Exterior Wall Infill Locations: Extruded polystyrene (XPS) board.
B. Insulation in Interior Metal Framed Walls: Batt insulation with no vapor retarder.

2.02 FOAM BOARD INSULATION MATERIALS
A. Extruded Polystyrene (XPS) Board Insulation: Complies with ASTM C578 with either natural skin or cut cell surfaces.
   1. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
   2. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
   3. Type and Thermal Resistance, R-value (RSI-value): Type IV, 5.0 (0.88) per 1 inch (25.4 mm) thickness at 75 degrees F (24 degrees C) mean temperature.

2.03 BATT INSULATION MATERIALS
A. Mineral Fiber Batt Insulation: Flexible or semi-rigid preformed batt or blanket, complying with ASTM C665; friction fit; unfaced flame spread index of 0 (zero) when tested in accordance with ASTM E84.
   1. Smoke Developed Index: 0 (zero), when tested in accordance with ASTM E84.

2.04 ACCESSORIES
A. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive.
   1. Application: Sealing of interior circular penetrations, such as pipes or cables.
   2. Width: Are required for application.
B. Flashing Tape: Special polyolefin film with high performance adhesive.
   1. Application: Interior window and door sill flashing tape.
   2. Width: Are required for application.
C. Insulation Fasteners: Lengths of unfinished, 13 gage, 0.072 inch (1.83 mm) high carbon spring steel with chisel or mitered tips, held in place by tension, length to suit insulation thickness and substrate, capable of securely supporting insulation in place.

D. Adhesive: Gun grade, interior and exterior, and compatible with insulation and substrates; complies with ASTM C557.

PART 3 EXECUTION

3.01 BOARD INSTALLATION AT CAVITY WALLS

A. Install boards snugly within existing openings in exterior walls.

B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

3.02 BATT INSTALLATION

A. Install insulation in accordance with manufacturer's instructions.

B. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.

C. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.

END OF SECTION
PROJECT

OAKWOOD UNIVERSITY ANN ARBOR

THE NORDHIRL BUILDING WILL CONTINUE TO BE OWNED AND OPERATED BY OAKWOOD UNIVERSITY. A FURNITURE BUILDING OCCURS IN THE EXISTING BUILDING. THE NORDHIRL BUILDING WILL CONTINUE TO BE OWNED AND OPERATED BY OAKWOOD UNIVERSITY.

LOCATION

2350 E. CASS AVE. ANN ARBOR, MI 48105

CONSTRUCTION TYPE

BUSINESS USE GROUP 16

CODE REVISION

2014 INDIANA BUILDING CODE (2012 INTERNATIONAL BUILDING CODE)

ACTUAL BUILDING HEIGHT:

20'-10" + 1 STORY (EXISTING)

ACTUAL BUILDING AREA:

97 SF / 100 OCC.

FIRE EXTINGUISHER CABINET

EXISTING TO REMAIN;

NO WORK

SMOKE SUPPRESSION

EXISTING TO REMAIN;

NO WORK

CONTROLLED ACCESS

EXISTING TO REMAIN;

NO WORK

MECHANICAL ROOMS

EXISTING TO REMAIN;

NO WORK

BASIC ALLOWABLE BUILDING HEIGHT:

1 STORY

ALLOWABLE BUILDING HEIGHTS AND AREAS

23,000 SQ. FT. / FLOOR

MAX. 13.8"

EGRESS WIDTH

906 SF / 20 OCC.

TOTAL ALLOWABLE BUILDING HEIGHT:

37,135 SQ. FT.

MAX. 180"

FREE SPAN INSTALLATION

EXISTING TO REMAIN;

NO WORK

STRUCTURAL MEMBERS SUPPORTING

EXISTING TO REMAIN;

NO WORK

CODE PLAN

SCALE: 1/16" = 1'-0"
TACTILE WARNING

GALVANIZED. HIGH MAX. 1:12 SLOPE
POST OVER NEOPRENE 2 1/2x2x1/4, 4" LONG ALL FACES PERFORMANCE COATING, ASPHALTIC TAR 12x12 1/2" STEEL BASE 1'-4"

LETTERING ON 947.65 8"
2% SLOPE 946.65 8"

2015 18106 BALL STATE UNIVERSITY
2501 N OAKWOOD AVE, MUNCIE, IN 47304 KW 18106

PLAN NOTES - SITE PLAN
1. LANDFORMS.
2. GRADING AND LANDSCAPING.
3. BRICK OR OTHER MATERIALS TO BE SHOWN IN COLOR.
4. BRICK OR OTHER MATERIALS TO BE SHOWN IN COLOR.
5. DASHED LINES TO INDICATE THE BOUNDARIES AND EXISTING LANDSCAPING.
6. DIMENSIONS OF EXISTING FEATURES AND ADDITIONAL FEATURES.
7. PROFILE OF GRADE WITH EXISTING FEATURES AND ADDITIONAL FEATURES.
8. PROVIDE POSITIVE DRAINAGE IN ALL AREAS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MATERIALS AVAILABLE ON SITE. IF EXCESS CUT
MAXIMUM OF PLUS OR MINUS 0.2 FEET,

SITE ENTRY PLAN - BASE BID
1. SITE ENTRY PLAN - BASE BID
2. SITE ENTRY PLAN - BASE BID
3. SITE ENTRY PLAN - BASE BID
4. SITE ENTRY PLAN - BASE BID
5. SITE ENTRY PLAN - BASE BID
6. SITE ENTRY PLAN - BASE BID
7. SITE ENTRY PLAN - BASE BID
8. SITE ENTRY PLAN - BASE BID

O.C. CONCRETE CURB W/ EXISTING ASPHALT 30 DEG.
W/ WELDED END CAPS, GALVANIZED. HIGH CAP, GALVANIZED.
WELDED STEEL END 3 6" 8" 6"
2. WHEN SIDEWALK ABUTS ANOTHER PAVED SURFACE,
- 3 6" 8" 6"
2. WHEN SIDEWALK ABUTS ANOTHER PAVED SURFACE,
- 3 6" 8" 6"
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- 3 6" 8" 6"
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- 3 6" 8" 6"
2. WHEN SIDEWALK ABUTS ANOTHER PAVED SURFACE,
- 3 6" 8" 6"
2. WHEN SIDEWALK ABUTS ANOTHER PAVED SURFACE,
GENERAL NOTES:
1. Mechanical Contractor to coordinate ductwork with existing metal structural joists.

PLAN NOTES:
1. Remove all ductwork shown in red. See Architectural Plan.
2. Ductwork is shown as black lines. See Architectural Plan.
3. Supply air duct runs down in drywall bulkhead, see Architectural Plan.
4. Existing toilet room exhaust to remain.
5. SUPPLY AIR DUCT AND VAV BOXES ARE BASE BID, SEE PLAN ABOVE.

SUPPLY AIR DUCT RUNS DOWN IN DRYWALL BULKHEAD, SEE ARCHITECTURAL PLAN.
SUPPLY AIR DUCT AND VAV BOXES ARE BASE BID, SEE PLAN ABOVE.
GENERAL NOTES:
1. TAP OFF OF TOP OF PIPE MAIN AND RUN PIPING UNDER ROOF DECK AND ABOVE MEANS TOP OF ALL PIPING AND ATTACHMENTS MUST BE AT OR ABOVE.

PLAN NOTES:
1. CONNECT 2" HHWS & HHWR TO EXISTING PIPING.
2. RTU CONTROL.
3. HUMIDISTAT.
4. TYP. 21-22 VAV BOX IN BASE

Page dimensions: 1728.0x2592.0
1. Disconnect and remove existing sink. Remove existing W, HW and CW pipe serving sink to below wall surface then plug and cap.

2. Disconnect and remove existing EWC's. Remove existing W and CW pipe to below wall surface then plug and cap.

3. Remove existing HW and CW from below wall surface and back to main then cap. Abandon HW and CW in wall.

4. Disconnect and remove existing sink, remove existing W, V, HW and CW to below wall surface then cap and abandon in wall.

5. Remove existing V, HW and CW back to main then cap. Cap and abandon in wall.

6. Disconnect and remove existing sink, remove existing W to below floor then plug, remove existing V, HW and CW back to main then cap.

7. Remove existing V, HW and CW including where wall is to be removed and back to main then cap.

8. Disconnect V, HW and CW drops in wall from branches. Cap and abandon drops in wall. Prepare branches for connection to new V, HW and CW. Remove W to below floor for connection to new W below floor.

9. Disconnect and remove existing UR's. Remove existing W and CW rough-in pipe to below wall surface where UR's are not to be reinstalled then plug and cap. Where new UR's are to be reinstalled prepare W and CW pipe for connection to new UR's, adjust services to new rough-in height requirements.

10. Disconnect and remove existing WC's. Remove existing W and CW rough-in pipe to below floor and wall surface where WC's are not to be reinstalled then plug and cap. Where new WC's are to be reinstalled prepare W and CW pipe for connection to new WC's, adjust services to new rough-in height requirements.

11. Disconnect and remove existing lavatory complete including all W and supplies. Prepare W, HW and CW for connection to new lavatory. Adjust service where required. Where lavatory is not to be reinstalled remove W, HW and CW rough-in to below wall service then plug and cap.

12. Remove W pipe below floor for connection to new W pipe below floor, maintain W and V pipe in wall for V purposes.

13. Disconnect and remove existing domestic recirculation pump complete.

14. Demolish hot water and hot water return lines to this location. Reconnect hot water and return with loop piping.
1. See drawing for general notes and symbols.
2. Access to check the rough plumbing throughout the area.
3. Existing waste pipe in the Corridor is 3/4" W and 4" W.
4. Existing sink in the Classroom is 1 1/2" W.
5. See existing below slab sanitary waste pipe in its entirety to the street.

General Notes:
1. Remove existing flange and pipe as required and install a new fitting and new flange. Connect pipe, fittings, and WC complete.
2. Cut floor and install W pipe, see detail on B/FP2.

Plan Notes:
1. Remove W to below floor slab and cap.
2. Remove existing W from from above and connect new 1 1/2" W below floor. Abandon W in wall above.
3. BID removal of W pipe as an alternative.

Demolition Plan Notes:
1. Remove the existing plumbing in the wall.
2. Cut floor and install W pipe, see detail on B/FP2.
3. Proceed with removal of wall and connect new 1 1/2" W below floor. Abandon W in wall above.
4. Distribution of a new flanged fitting.
1. See drawing P0-1 for general notes and symbols.

**General Notes:**

1. Connect lav to existing w, v, hw and cw services, adjust services as required to connect to lav.
2. Connect ur to existing w, v and cw services, adjust services as required to connect to ur.
3. Connect ewc to existing w, v and cw services, open wall and adjust services as required to connect w and cw to ewc.
4. Connect wc to existing w and cw services, adjust services as required to connect to wc.
5. Connect wc to existing cw service, adjust cw service in chase as required to connect to wc. Cut floor and install w rough in as required for wc location.
6. Plug and cap w and cw below wall surface.
7. Plug and cap w, hw and cw below wall surface.
8. 1/2" hw and 1/2" cw drop, 2" w down and 1 1/2" w rise.
9. Bid as an alternate.
10. 1/2" cw drop to imb - mount imb at 12" aff. (apply to imb). Imb at 12" aff. (apply to imb) - mount imb at 12" aff. (apply to imb).
11. 1/2" cw drop stub out at 4" above counter back splash and install stop valve similar to chicago faucet 1017. Install escutcheon at wall. Field verify coffee maker location before installation and install at planned coffee maker location.

**Plan Notes:**

- See drawing P0-1 for general notes and symbols.
### PLUMBING EQUIPMENT SCHEDULE

<table>
<thead>
<tr>
<th>TAG NO.</th>
<th>DESCRIPTION</th>
<th>PIPE CONNECTIONS</th>
<th>PERFORMANCE</th>
<th>MFG. MODEL #</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WASTE VENT</td>
<td>CW HW GPM P.D. AMPS/Hp VOLTS/HZ/PH</td>
<td></td>
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</tr>
<tr>
<td>BFP-1 &amp; REDUCED PRESSURE BACKFLOW PREVENTER</td>
<td>1 1/4&quot; N/A 2 1/2&quot; N/A 130 10 PSIG N/A N/A</td>
<td>WATTS LF909QT-S MAIN SUPPLY, PROVIDE STRAINER AND AIR GAP DRAIN FITTING.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>BFP-3 REDUCED PRESSURE BACKFLOW PREVENTER</td>
<td>1 1/4&quot; N/A 3/4&quot; N/A 10 13 PSIG N/A N/A</td>
<td>WATTS 919QT-S CW MAKE-UP, PROVIDE AIR GAP DRAIN FITTING.</td>
<td></td>
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### PLUMBING FIXTURE SCHEDULE

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<th>PIPE CONNECTIONS</th>
<th>PERFORMANCE</th>
<th>MFG. MODEL #</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER CLOSET, FLOOR MOUNTED</td>
<td>1-1/2&quot; TOP SPUD, DUAL FLUSH 1.1 TO 1.6 GPF, ELONGATED BOWL, VITREOUS CHINA, WHITE. SEAT: OPEN FRONT LESS COVER WITH SELF SUSTAINING CHECK STOP HINGES, WHITE.</td>
<td></td>
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<tr>
<td>WC-1 WATER CLOSET-(STANDARD)</td>
<td>4&quot; 2&quot; 1&quot; N/A 1.6/1.1 GPF</td>
<td>AMERICAN STANDARD SLOAN 111-1.6 15' RIM AFF PLATED.CARRIER: FLOOR MOUNTED WATER CLOSET FLANGE.</td>
<td></td>
<td></td>
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<tr>
<td>WC-3 WATER CLOSET - ADA</td>
<td>4&quot; 2:&quot; 1&quot; N/A 1.6 GPF</td>
<td>AMERICAN STANDARD SLOAN ECOS 8111-1.6/1.1 17' RIM AFF FLUSH 1.6/1.1 GPF, ESCUTCHEON WALL PLATE, CHROME PLATED.CARRIER: FLOOR MOUNTED WATER CLOSET FLANGE.</td>
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<td>URINAL, WALL HUNG, VITROUS CHINA, LOW CONSUMPTION 0.125 TO 1 GPF, WHITE. FLUSH VALVE: BATTERY POWERED SENSOR OPERATED FLUSH VALVE WITH COURTESY FLUSH BUTTON, BRASS, 0.5 GPF, ESCUTCHEON WALL PLATE, CHROME PLATED. CARRIER: FLOOR MOUNTED FIXTURE CARRIER J R SMITH 600 SERIES.</td>
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<tr>
<td>UR-1 URINAL (ADA)</td>
<td>2&quot; 1 1/2&quot; 3/4&quot; N/A 0.5 GPF</td>
<td>AMERICAN STANDARD SLOAN ECOS 8186-0.5 24&quot; LIP AFF URINAL: WALL HUNG, VITROUS CHINA, LOW CONSUMPTION 0.125 TO 1 GPF, WHITE. FLUSH VALVE: BATTERY POWERED SENSOR OPERATED FLUSH VALVE WITH COURTESY FLUSH BUTTON, BRASS, 0.5 GPF, ESCUTCHEON WALL PLATE, CHROME PLATED. CARRIER: FLOOR MOUNTED FIXTURE CARRIER J R SMITH 600 SERIES.</td>
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<td>LAVATORY, SOLID SURFACE COUNTER TOP AND INTEGRAL BOWL PROVIDED AND INSTALLED UNDER A DIFFERENT DIVISION. FAUCET AND DRAIN AND ALL ITEMS LISTED IN THIS SCHEDULE DIVISION 22 SPECIFICATIONS PROVIDED AND INSTALL BY DIVISION 22. FAUCET: MANUAL LEVER HANDLE FAUCET WITH 0.5 GPM AERATOR OR LAMINAR FLOW, CHROME PLATED AND 4&quot; CENTERS. COUNTER DRAIN: CHICAGO FAUCET 327 STRAINER, 17 GA TAIL PIECE P-TRAP AND ARM, DEEP BOX ESCUTCHEON, CHROME PLATED BRASS.STOP VALVES: CHICAGO FAUCET 1017 STOPS AND SUPPLY TUBES, CHROME PLATED. INTEGRAL BOWL INSULATION: TRUBRO HOT WATER, COLD WATER AND DRAIN INSULATION KIT FOR ADA COMPLIANCE ON ALL LAVATORIES.</td>
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<td>SINK: SINGLE BOWL STAINLESS STEEL 304 18 GA, SELF RIMMING DROP IN, 3 HOLE DECK, 31&quot; X 21&quot; X 10&quot; RECTANGLE, UNDERCOATED. FAUCET: DECK MOUNTED FAUCET 8&quot; CENTER, 8&quot; SWING SPOUT WITH 2.2 GPM AERATOR OR LAMINAR FLOW, WING HANDLES, CHROME PLATED. COUNTER TOP DRAIN: LK58 DRAIN FITTING, 17 GA TAIL PIECE, P-TRAP AND ARM, DEEP BOX ESCUTCHEON, CHROME PLATED CHICAGO FAUCET 1100-XKABCP. STOP VALVES: CHICAGO FAUCET 1017 STOPS AND SUPPLY TUBES, CHROME PLATED.</td>
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<td>ICE MAKER HOOK-UP BOX</td>
<td>N/A N/A 1/2&quot; N/A N/A</td>
<td>GUY GRAY SSIB1AB 123&quot; BOTTOM AFF QUARTER TURN, 1/2&quot; MPT INLET CONNECTION, STAINLESS STEEL CABINET. WATER COOLER: BARRIER FREE WALL HUNG WATER COOLER WITH BOTTLE FILLER. STAINLESS STEEL CABINET AND BASIN, CABINET COOLING UNIT WITH 8 GPH. CHAIR CARRIER SUPPORT: J R SMITH 800 SERIES WATER COOLER SUPPORT.</td>
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<tr>
<td>ELECTRIC WATER COOLER</td>
<td>1 1/2&quot; 1 1/2&quot; 1/2&quot; N/A</td>
<td>HALSEY TAYLOR HTHB-HACG8SS-NF 36&quot; BUBBLER AFF WATER COOLER: BARRIER FREE WALL HUNG WATER COOLER WITH BOTTLE FILLER. STAINLESS STEEL CABINET AND BASIN, CABINET COOLING UNIT WITH 8 GPH. CHAIR CARRIER SUPPORT: J R SMITH 800 SERIES WATER COOLER SUPPORT.</td>
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**Ball Documents**

**Ball State University**

**2501 N Oakwood Ave, Muncie, IN 47304**

**Oakwood Remodel / 2018-020.01 OW**

**6/7/18**

**BID DOCUMENTS**

**06/07/2018**

**krM Job No.**

**18106**

**Drawn By**

**MBW**

**Drawing Name**

**PLUMBING DETAILS AND SCHEDULES**

**Drawing No.**

**P6-1**
1. SEE DRAWING P0-1 FOR GENERAL NOTES AND SYMBOLS.
2. DESIGN TO NFPA 13, LIGHT HAZARD GROUP 1, STORAGE ROOMS TO BE ORDINARY HAZARD GROUP 1.
3. SEE ARCHITECTURAL PLANS FOR REFLECTED CEILINGS.

GENERAL NOTES:
1. FIRE PROTECTION MAIN SHOWN FOR REFERENCE ONLY. SIZE AND LOCATION DETERMINED BY THE FIRE SPRINKLER CONTRACTOR.
2. EXTEND SYSTEM TEST AND DRAIN TO EXTERIOR OF BUILDING.

PLAN NOTES:

FIRST FLOOR FIRE PROTECTION PLAN - AREA A

FIRST FLOOR FIRE PROTECTION PLAN - AREA A (WEST ALTERNATE)

FIRST FLOOR FIRE PROTECTION PLAN - AREA A (ALTERNATE)
1. Replace existing panelboard in place. Connect to existing feeder.
2. Remove existing speaker in this room. Remove conduit and wiring back to source.
3. Remove existing panelboard complete. Remove all associated conduit and wiring.
4. Remove all existing surface raceway and receptacles in this area. Remove conduit and wiring back to source.
5. Remove connection to existing mechanical. Remove conduit and wiring back to source.
6. Remove existing clock outlet. Patch wall as required.
7. Remove existing receptacle. Remove conduit and wiring back to source.
8. Remove existing fire alarm pull station. Remove conduit and wiring back to source.
9. All of the work in this room is to be part of the alternate.
10. Remove existing bell. Remove conduit and wiring back to the source.
11. Remove existing fire alarm audible device. Remove conduit and wiring back to source.
12. Remove existing receptacle. Remove conduit and wiring back to source.
13. Provide blank cover plate.
14. Remove existing power pole complete. Remove conduit and wiring back to source.
15. Replace existing receptacle in place. See Sheet E3.4.
16. Provide blank cover plate on existing outlet box.
17. Remove existing data rough-in. Remove conduit and wiring back to source.
18. Remove all existing surface mounted receptacles, plywood backboard, boxes, etc. on this wall. Remove all associated conduit and wiring back to source.
19. Contractor to contact AT&T and coordinate the removal of the fiber and their equipment before proceeding with demolition. Remove conduit going through wall and box on the outside of the building. Seal opening.
20. Remove connection to existing pump. Remove conduit and wiring back to source.
21. Remove existing inner fiber, and data cabling in this area back to source that is no longer required.
22. Remove existing surface raceway in this area back to source.

GENERAL NOTES:

- See Specification Section 260510 Electrical Demolition and Sheet E0-1 for additional information.

DEMOLITION NOTES:

- Remove existing panelboard in place. Connect to existing feeder.
- Remove existing speaker in this room. Remove conduit and wiring back to source.
- Remove existing panelboard complete. Remove all associated conduit and wiring.
- Remove all existing surface raceway and receptacles in this area. Remove conduit and wiring back to source.
- Remove connection to existing mechanical. Remove conduit and wiring back to source.
- Remove existing clock outlet. Patch wall as required.
- Remove existing receptacle. Remove conduit and wiring back to source.
- Remove existing fire alarm pull station. Remove conduit and wiring back to source.
- All of the work in this room is to be part of the alternate.
- Remove existing bell. Remove conduit and wiring back to the source.
- Remove existing fire alarm audible device. Remove conduit and wiring back to source.
- Remove existing receptacle. Remove conduit and wiring back to source.
- Provide blank cover plate.
- Remove existing power pole complete. Remove conduit and wiring back to source.
- Replace existing receptacle in place. See Sheet E3.4.
- Provide blank cover plate on existing outlet box.
- Remove existing data rough-in. Remove conduit and wiring back to source.
- Remove all existing surface mounted receptacles, plywood backboard, boxes, etc. on this wall. Remove all associated conduit and wiring back to source.
- Contractor to contact AT&T and coordinate the removal of the fiber and their equipment before proceeding with demolition. Remove conduit going through wall and box on the outside of the building. Seal opening.
- Remove connection to existing pump. Remove conduit and wiring back to source.
- Remove existing inner fiber, and data cabling in this area back to source that is no longer required.
- Remove existing surface raceway in this area back to source.
GENERAL NOTES:
1. SEE SHEET E0-1, E3-1, E6-1 FOR ADDITIONAL INFORMATION.

PLAN NOTES:
1. LIGHT FIXTURES IN THIS ROOM CONTROLLED "ON" BY DIMMER SWITCHES AND "OFF" BY OCCUPANCY SENSORS. CONNECT TO CIRCUIT INDICATED.
2. LIGHT FIXTURES IN THE CORRIDOR CONTROLLED "ON" BY OCCUPANCY SENORS. CONNECT TO CIRCUIT INDICATED.
3. NEW DIMMER SWITCHES/OCCUPANCY SENSORS TO BE INSTALLED IN EXISTING PANELS. CONNECT TO CIRCUIT INDICATED.
4. LIGHT FIXTURES IN THE CORRIDOR CONTROLLED "OFF" BY OCCUPANCY SENSORS.
5. LIGHT FIXTURES CONTROLLED "OFF" BY OCCUPANCY SENSORS.
6. LIGHT FIXTURES CONTROLLED "OFF" BY OCCUPANCY SENSORS.
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10. LIGHT FIXTURES CONTROLLED "OFF" BY OCCUPANCY SENSORS.
11. LIGHT FIXTURES CONTROLLED "OFF" BY OCCUPANCY SENSORS.
12. LIGHT FIXTURES CONTROLLED "OFF" BY OCCUPANCY SENSORS.

NOTE: LIGHT FIXTURE TO BE MOUNTED VERTICALLY BETWEEN THE MIRRORS. CONNECT TO CIRCUIT INDICATED.

LIGHT FIXTURES IN THIS ROOM CONTROLLED "ON/OFF" BY OCCUPANCY SENSORS. CONNECT TO CIRCUIT INDICATED.

LIGHT FIXTURES IN THIS ROOM CONTROLLED "ON/OFF" BY OCCUPANCY SENSORS. CONNECT TO CIRCUIT INDICATED.

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LIGHT FIXTURES IN THIS ROOM CONTROLLED "ON/OFF" BY OCCUPANCY SENSORS. CONNECT TO CIRCUIT INDICATED.
GENERAL NOTES:
1. SEE SHEET B-21 FOR ADDITIONAL INFORMATION.

PLAN NOTES:
1. REMOVE EXISTING OUTLET WITH NEW RECEPTACLE AND COVER PLATE IN EXISTING OPENING.
2. LOCATE WIRING OUTSIDE OF NEW CONSTRUCTION.
3. LOCATE WIRING OUTSIDE OF NEW CONSTRUCTION.
4. PROVIDE BILateral CONDUIT SYSTEM THE LENGTH OF THE CORRIDOR.
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FIRST FLOOR POWER & SYSTEMS PLAN - AREA A

FIRST FLOOR POWER & SYSTEMS PLAN - AREA A (WEST ALTERNATE)

FIRST FLOOR POWER & SYSTEMS PLAN - AREA A (ALTERNATE)
LIGHTING FIXTURE SCHEDULE

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<td>14&quot; SQUARE SURFACE MOUNTED EXTERIOR SOFFIT</td>
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NOTES:
1. CONTRACTOR TO REMOVE POLETOP TENON AND DRILL THE EXISTING POLE TO ACCOMMODATE MOUNTING OF NEW LIGHT FIXTURE HEADS. PROVIDE FLUSH-HEAD SWIVEL MOUNTS FOR FIXTURE HEADS TO BE PROVIDED.
2. FURNISH FUSE PROTECTION FOR COIL CIRCUIT.
3. PROVIDE TWO UVPP POWER PACKS. OCCUPANCY SENSOR TO BE CONTROLLED BY LINE VOLTAGE SWITCHES IN THE SPACE.
4. PHOTOCELL TO BE TORK MODEL 2101 OR APPROVED EQUAL. PHOTOCELL TO BE LOCATED ON THE ROOF. COORDINATE LOCATION OF PHOTOCELL IN THE FIELD.
5. MOMENTARY KEYED SWITCHES, LOCAL SWITCHES, AND BMS CONTROLLED.
6. M1 TO BE CONNECTED TO THE相關證件 IN THE FIELD.
7. PROVIDE ONE UVPP POWER PACK.
8. CONTACTOR SCHEDULE

CONTACTOR SCHEDULE

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OCCUPANCY SENSOR SCHEDULE

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NOTE 1: CONTRACTOR TO REMOVE POLETOP TENON AND DRILL THE EXISTING POLE TO ACCOMMODATE MOUNTING OF NEW LIGHT FIXTURE HEADS. PROVIDE FLUSH-HEAD SWIVEL MOUNTS FOR FIXTURE HEADS TO BE PROVIDED.

NOTE 2: FURNISH FUSE PROTECTION FOR COIL CIRCUIT.

NOTE 3: PROVIDE TWO UVPP POWER PACKS. OCCUPANCY SENSOR TO BE CONTROLLED BY LINE VOLTAGE SWITCHES IN THE SPACE.

NOTE 4: PHOTOCELL TO BE TORK MODEL 2101 OR APPROVED EQUAL. PHOTOCELL TO BE LOCATED ON THE ROOF. COORDINATE LOCATION OF PHOTOCELL IN THE FIELD.

NOTE 5: MOMENTARY KEYED SWITCHES, LOCAL SWITCHES, AND BMS CONTROLLED.

NOTE 6: M1 TO BE CONNECTED TO THE INDY S2X4BL-39 SERIES PERFORMANCE LIGHTING 071652 SERIES.

NOTE 7: PROVIDE ONE UVPP POWER PACK.