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***SECTION 5***  
***SPECIFICATIONS***

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## SECTION 011100 - SUMMARY OF WORK

### PART 1 - GENERAL

#### 1.1 SECTION INCLUDES

- A. Related Documents.
- B. Work Identification.
- C. Abbreviated Summary of Work.
- D. Sequence of Construction.
- E. Miscellaneous Provisions.

#### 1.2 RELATED DOCUMENTS

- A. The Contract Documents are defined in the Project Manual and the Drawings.
  - 1. In general, the Project Manual includes a description of the work to be performed by the various trades, other than work specifically excluded. It shall be the responsibility of Contractor and Subcontractor(s) to perform all work indicated to their contract/trade, whether or not specific mention is made of each item, unless such incidentals are included under another work item.
  - 2. It is advised that all Contractors and Subcontractors familiarize themselves with the contents of the complete plans and specifications, particularly for the trades preceding, following, related or adjacent to their work.

#### 1.3 WORK IDENTIFICATION

- A. Contract Documents indicate the work of Contractor and related requirements and conditions that have an impact on the project. Related requirements and conditions that are indicated on the Contract Documents include, but are not necessarily limited to, the following:
  - 1. All labor, materials, tools, equipment and transportation necessary for the proper execution of the work in accordance with the Contract Documents.
  - 2. All assistance required by the Owner or Architect/Engineer to verify compliance with the Contract Documents.
  - 3. Reimbursement to the Owner for costs of re-inspection or retesting of any work not installed in compliance with the Contract Documents.
  - 4. Existing site conditions and restrictions on the use of the work sites.

5. Construction sequencing to maintain continuous operation of existing facilities during the construction.
6. Scheduling of the work to accomplish the sequencing and improvement completion within the specified calendar days including intermediate milestone.
7. Testing of materials installed during construction.
8. Requirements for Owner acceptance including testing, start-up, training, operational demonstration and commissioning.
9. Special conditions associated with the project, including any Specific Project Requirements.

B. Definition of the extent of Contract Work: The extent of the work of Contract is indicated in the Contract Documents. General names and terminology on the drawings and in the specifications control the determination of which Contract includes a specific element of required work, except where no other more specific definition is contained in the Contract Documents.

1. Local custom and trade union jurisdictional settlements do not control the scope of work in Contract. When a potential jurisdictional dispute or similar potential work interruption is first identified or threatened, affected parties of the Contracts shall promptly negotiate a reasonable settlement which will avoid or minimize such pending interruption and its delays or losses.

#### 1.4 ABBREVIATED SUMMARY OF WORK BY PRIME CONTRACT

The work of Contractor can be summarized as follows:

A. General: The Contract Documents, Project Specifications and Drawings together describe the work of this project. Neither the specifications nor the drawings describe the work completely. The specifications in their entirety apply to the work of Contractor.

B. Coordinate Efforts: The following is a listing of responsibilities for inclusion into the work by the Contract identified.

1. Contractor shall provide all assistance required by the Engineers to verify compliance with the Contract Documents.
2. Contractor supplying equipment shall verify electrical requirements to substantiate wire, conduits and electrical interfacing of the equipment proposed to be furnished and shall provide for any necessary electrical equipment and work changes to accommodate the equipment furnished at no change in the Contract Price to the Owner.
3. Contractor will be responsible for providing and maintaining temporary sanitary facilities for use during the construction. Contractors' employees shall not use the Owner's facilities.
4. Contractor is responsible for providing water for their employees.

5. Contractor is responsible for permits, permit fees, disposal permits, demolition permit, disposal fees and any other permit or fee required to perform the work.
6. Contractor is responsible for coordinating all disconnections of utilities at the areas being demolished including gas, telephone, reconnection of water and sewer.
7. Contractor will be responsible for maintaining one set of working, red-line record drawings as the work progresses. All original red-line drawing sets will be provided to the Owner at the completion of work.
8. The Contractor will be responsible for providing and maintaining temporary heat within the structures and areas of work.

C. General Contract Work Summary

1. Work includes, but is not necessarily limited to, the following. General requirements work as specified in Division 1 including submittals; temporary construction facilities for General contract work; testing; start-up and commissioning, and project coordination with other prime Contractors.
  - a. Selective Demolition.
  - b. Construction of building improvements.
  - c. Foundations, concrete slabs, and associated testing, protection, etc.
  - d. Interior improvement, including but not limited to, steel tubing, masonry, drywall partitions, flooring, ceilings, doors, paint/stain, and equipment, etc.
  - e. Vertical platform lift.
  - f. Clean-up of building site.
  - g. Contingency/Discretionary Allowance has been included in the bid proposal to be utilized as directed by the Architect for unscheduled work items not included on the proposal forms or other changes in the work. Any portion of the allowance not utilized shall be credited to the Owner.

D. Mechanical Work Summary

1. Work includes plumbing equipment, accessories and piping systems. Work includes but is not limited to, the following:
  - a. General requirements work as specified in Division 1 including submittals; temporary construction facilities for work; excavation, backfill, testing; start-up and commissioning; and project coordination.
  - b. Mechanical work including demolition, cutting, and patching of existing structures.
  - c. HVAC interior/exterior equipment.
  - d. HVAC control wiring between HVAC equipment and controls.

F. Electrical Work Summary:

1. Work includes work that is primarily electrical, power distribution, conduit and wiring for instrumentation and control, conduit and wiring for equipment monitoring and control, providing and maintaining the temporary power system and lighting plus work traditionally recognized as electrical construction. Work includes, but is not necessarily limited to, the following:
  - a. General requirements work as specified in Division 1 including submittals; temporary construction facilities for Electrical contract work; testing; start-up and commissioning; temporary electrical power and project coordination.
  - b. Electrical work including demolition, cutting and patching.
  - c. Mechanical control wiring between systems and controllers/remote devices.
  - d. Power and control connections to all equipment furnished under other prime Contracts.
  - e. Exit lighting.
  - f. Exterior and Interior lighting.
  - g. Grounding system.

1.5 SEQUENCE OF CONSTRUCTION

- A. Description: The Contractor will be responsible to coordinate and schedule the sequence of and interface the work.
- B. General Requirements: Since building and tie-ins are included in this work that potentially could interfere with the operations of the facility, all Contractors shall take any and all steps necessary to avoid this interference, including the following:
  1. When existing nonparallel piping must be taken out of service, temporary parallel piping or pumping shall be installed and maintained by the Contractor until service is restored, unless otherwise indicated herein.
  2. When avoidance of interference is impractical by the above methods, the Contractor shall take the following additional steps:
    - a. The Contractor shall schedule his work so as to minimize the time interval and/or frequency that any portion of the distribution system is out of service.
    - b. The Contractor shall coordinate all labor, materials, and equipment to be on the site at the start of a shutdown.
    - c. The Contractor shall work continuously until service is restored.
    - d. The Contractor shall coordinate with and notify the Engineer/Owner well in advance of a shutdown.

- B. Contractor to complete all interior floors, walls, door frames, etc. to build out the space. All permanent items must be protected to avoid damage by other trades.

1.6 MISCELLANEOUS PROVISIONS

- A. The project is located at Madison Historical Society - 126 West Main Street, Madison, Ohio 44057.
- B. DRAWING SCHEDULE - The work to be done under these Contracts is shown on the following Drawings:

<u>Title</u>	<u>Sheet No.</u>
Title Sheet	G-01
Key Plan, Demolition Plans, General Notes	A-01
Key Plan, Floor Plans, Details	A-02
Elevations	A-03
Wall Sections	A-04
Door & Finish Schedules and Details	A-05
Specifications	A-06
Structural General Notes	S-00
Structural General Notes	S-00.1
Structural General Notes	S-00.2
Foundation Plan, Sections and Details	S-01
Lower Roof Framing Plan, Section and Details	S-02
Roof Framing Plans	S-03
Mechanical and Electrical Plans	ME-01

END OF SECTION 011100

**SUBCONTRACTOR LIST**

In implementing the work, I have used the following subcontractors:

Name of Subcontractor	Address	Phone No.	MBE/FBE*	Federal ID No.	Amount Paid

\*MBE – Minority Business Enterprise  
FBE – Female Business Enterprise

Contractor Name: \_\_\_\_\_  
Form Completed by: \_\_\_\_\_  
Date: \_\_\_\_\_

**THIS FORM MUST BE FILLED OUT AND RETURNED PRIOR TO RECEIPT OF FINAL PAYMENT.**

## SECTION 011419 - USE OF SITE

### PART 1 - GENERAL

#### 1.1 GENERAL

- A. The Contractor will be allowed the use of the site as shown on the contract documents.

#### 1.2 USE OF STREETS

- A. During the progress of the work, the Contractor shall make ample provisions for both vehicle and pedestrian traffic on any public street and shall indemnify and save harmless the Owner from any expense whatsoever due to his operations over said streets. The Contractor shall also provide free access to all the fire hydrants, water, and gas valves located along the line of his work. Gutters and waterways must be kept open or other provisions made for the removal of storm water. Street intersections may be blocked only one-half at a time, and the Contractor shall lay and maintain temporary driveways, bridges and crossings, such as in the opinion of the Engineer are necessary to reasonably accommodate the public.
- B. In the event of the Contractor's failure to comply with these provisions, the Owner may cause the same to be done, and may deduct the cost of such work from any monies due the Contractor under this Agreement, but the performance of such work by the Owner at its instance shall serve in no way to release the Contractor from his general or particular liability for the safety of the public or the work.
- C. The Contractor shall repair at no cost to the Owner, all existing roads, parking areas, grassed areas that are damaged due to the execution of his work. The Contractor shall remove daily all mud, soil and debris that may be tracked onto existing streets, drives, or walks by his equipment or that of subcontractors or suppliers.

#### 1.3 CLOSING STREETS TO TRAFFIC

The Contractor may with the approval of the Engineer, close streets, or parts of streets, to vehicular traffic. The streets are to remain closed as long as the construction work or the condition of the finished work requires or as determined by the Engineer. The Engineer shall be the judge of how many streets or parts of streets it is necessary for the Contractor to close at any time, and may refuse to permit the closing of additional streets to traffic until the majority of the work on the closed streets is completed and they are opened to traffic.



#### 1.4 RIGHTS-OF-WAY

- A. Whenever it is required to perform work within the limits of public or private property or in rights-of-way, such work shall be done in conformity with all agreements between the Owner and the owners of such. Care shall be taken to avoid injury to the premises entered, which premises shall be left in a neat and orderly condition by the removal of rubbish and the grading of surplus materials, and the restoration of said public or private property to the same general conditions as pertained at the time of entry for work to be performed under this contract.
- B. The Contractor shall not (except after consent from the proper parties) enter or occupy with men, tools or equipment, any land outside the rights-of-way or property of the Owner.
- C. When the Contractor performs construction within 10 ft. of a right-of-way or easement line, he shall place tall stakes properly identified at points of change in width or direction of the right-of-way or easement line and at points along the line so that at least two stakes can be seen distinctly from any point on the line.

#### 1.5 EASEMENTS

- A. Where the work is to be constructed upon easements, such easements will be secured by the Owner without cost to the Contractor. The Contractor shall not enter upon or occupy any private property outside of the limits of the easements furnished.
- B. Care shall be taken to avoid injury to the premises entered, which premises shall be left in a neat and orderly condition by the removal of rubbish and the grading of surplus materials, and the restoration of said public or private property to the same general conditions as pertained at the time of entry for work to be performed under this contract.

#### 1.6 PROTECTING EXISTING BUILDINGS, STRUCTURES AND ROADWAYS

- A. The Contractor shall, at his own expense, shore up and protect any buildings, roadways, utilities or other public or private structures which may be encountered or endangered in the prosecution of the work, and that may not be otherwise provided for, and he shall repair and make good any damages caused to any such property by reason of his operations. All existing fences removed due to the prosecution of the work shall be replaced by the Contractor. No extra payment will be made for said work or material, but the cost of this work must be included in the price stipulated for the work to be done under this contract.

#### 1.7 SITE FACILITIES

- A. The Contractor shall furnish and place sufficient quantities of portable toilet facilities at locations convenient for use by the Contractor's personnel, Subcontractors, the Engineer, and the Owner.

1.8 RESTORATION

- A. On lump sum items or contracts, the value of the restoration work will be determined by the approved schedule of values submitted by the Contractor.
- B. All restoration shall restore the site to equal or better condition than the condition prior to its disturbance.

END OF SECTION 011419

## SECTION 011423 - ADDITIONAL WORK, OVERTIME

### PART 1 - GENERAL

#### 1.1 NIGHT, SUNDAY AND HOLIDAY WORK

- A. No work will be permitted at night, Sunday or legal holidays except as noted or in the case of emergency and then only upon written authorization of the Engineer. Where no emergency exists, but the Contractor feels it advantageous to work at night, Sunday or legal holidays, the Contractor shall notify the Engineer at least two (2) days in advance, requesting written permission. Any work performed during the absence of the Engineer will be done at the Contractor's risk and responsibility and may be subject to rejection upon later inspection.

#### 1.2 WORK HOURS

- A. Work hours shall be 7:00 AM – 4:00 PM Monday through Friday unless otherwise agreed upon.

END OF SECTION 011423

## SECTION 013323 - SHOP DRAWINGS AND SUBMITTALS

### PART 1 - GENERAL

#### 1.1 GENERAL

- A. The Contractor shall submit detailed drawings, acceptable catalog data, specifications and material certifications for all equipment and materials specified or required for the proper completion of the work.
- B. The intent of these items is to demonstrate compliance with the design concept of the work and to provide the detailed information necessary for the fabrication, assembly and installation of the work specified. It is not intended that every detail of all parts of manufactured equipment be submitted, however sufficient detail will be required to ascertain compliance with the specifications and establish the quality of the equipment proposed.

Shop Drawings shall be sufficiently clear and complete to enable the Engineer and Owner to determine that items proposed to be furnished conform to the specifications and that items delivered to the site are actually those that have been reviewed.

- C. It is emphasized that the Engineer's review of Contractor's submitted data is for general conformance to the contract drawings and specifications but subject to the detailed requirements of drawings and specifications. Although the Engineer may review submitted data in detail, such review is an effort to discover errors and omissions in Contractor's drawings. The Engineer's review shall in no way relieve the Contractor of his obligation to properly coordinate the work and to Engineer the details of the work in such manner that the purposes and intent of the contract will be achieved. Such review by the Engineer shall not be construed as placing on him or on the Owner any responsibility for the accuracy and for proper fit, functioning or performance of any phase of the work included in the contract.
- D. Shop Drawings shall be submitted in proper sequence and with due regard to the time required for checking, transmittal and review so as to cause no delay in the work. The Contractor's failure to transmit appropriate submittals to the Engineer sufficiently in advance of the work shall not be grounds for time extension.
- E. The Contractor shall submit Shop Drawings for all fabricated work and for all manufactured items required to be furnished in the Contract in accordance with the General Provisions and as specified herein. Shop Drawings shall be submitted in sufficient time to allow at least twenty-one (21) calendar days after receipt of the Shop Drawings from the Contractor for checking and processing by the Engineer.
- F. As applicable, it is the responsibility of each Prime Contractor to furnish to all other Prime Contractors and especially the General Construction Contractor reviewed Shop Drawings for guidance in interfacing the various trades; i.e., sleeves, inserts, anchor bolts, terminations, and space requirements.

- G. No work shall be performed requiring Shop Drawings until same have been reviewed by Engineer.
- H. Accepted and reviewed Shop Drawings shall not be construed as approval of changes from Contract plan and specification requirements.
- I. The Engineer will review the first and second Shop Drawing item submittals at no cost to the Contractor. Review of the third submittal and any subsequent submittal will be at the Contractor's expense. Payment will be deducted from the Contract amount at a rate of 2.8 times direct labor cost plus expenses.

## 1.2 SUBMITTAL PROCEDURE

- A. All required submissions shall be made to the Engineer by the Contractor(s) only. Any data prepared by subcontractors and suppliers and all correspondence originating with subcontractors, suppliers, etc., shall be submitted through the Contractor.
- B. Contractor shall review and approve all Shop Drawings prior to submission. Contractor's approval shall constitute a representation to Owner and Engineer that Contractor has either determined and verified all quantities, dimensions, field construction criteria, materials, catalog numbers, and similar data or assumes full responsibility for doing so, and that Contractor has reviewed or coordinated each Shop Drawing or sample with the requirements of the work and the Contract Documents.
- C. Submittal Preparation: Mark each submittal with a permanent label or page for identification. Provide the following information on the label for proper processing and recording of action taken:
  - 1. Location
  - 2. Project Name
  - 3. Contract
  - 4. Name and Address of Engineer/Architect
  - 5. Name and Address of Contractor
  - 6. Name and Address of Subcontractor
  - 7. Name and Address of Supplier
  - 8. Name of Manufacturer
  - 9. Number and Title of appropriate Specification Section
  - 10. Drawing Number and Detail References, as appropriate.
  - 11. Submittal Sequence or Log Reference Number.
    - a. Provide a space on the label for the Contractor's review and approval markings and a space for the Engineer's "Action Stamp".
- D. Each Shop Drawing, sample and product data submitted by the Contractor shall have affixed to it the following Certification Statement including the Contractor's Company name and signed by the Contractor:

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company

- E. Shop Drawings shall be submitted electronically to the Engineer as specified at the Preconstruction Conference.
- F. At the time of each submission, Contractor shall in writing identify any deviations that the Shop Drawings or samples may have from the requirements of the Contract Documents.
- G. Drawings shall be clean, legible and shall show necessary working dimensions, arrangement, material finish, erection data, and like information needed to define what is to be furnished and to establish its suitability for the intended use. Specifications may be required for equipment or materials to establish any characteristics of performance where such are pertinent. Suitable catalog data sheets showing all options and marked with complete model numbers may, in certain instances, be sufficient to define the articles which it is proposed to furnish.
- H. For product which require submittal of samples, furnish samples so as not to delay fabrication, allowing the Engineer reasonable time for the consideration of the samples submitted. Properly label samples, indicating the material or product represented, its place of origin, the names of the vendor and Contractor and the name of the project for which it is intended. Ship samples prepaid. Accompany samples with pertinent data required to judge the quality and acceptability of the sample, such as certified test records and, where required for proper evaluation, certified chemical analyses.

### 1.3 REVIEW PROCEDURE

- A. Engineer will review with reasonable promptness all properly submitted Shop Drawings. Such review shall be only for conformance with the design concept of the Project and for compliance with the information given in the plans and specifications and shall not extend to means, methods, sequences, techniques or procedures of construction or to safety precautions or programs incident thereto.
- B. The review of a separate item as such will not constitute the review of the assembly in which the item functions. The Contractor shall submit entire systems as a package.
- C. All Shop Drawings submitted for review shall be stamped with the Engineer's action and associated comments.

- D. Except for submittals for record, information or similar purposes, where action and return is required or requested, the Engineer will review each submittal, mark to indicate action taken, and return accordingly. Compliance with specified characteristics is the Contractor's responsibility.

Action Stamp: The Engineer will electronically stamp each submittal with a uniform, self-explanatory action stamp. The stamp will be appropriately marked, as follows, to indicate the action taken:

1. If Shop Drawings are found to be in general compliance, such review will be indicated by marking the first statement.
  2. If only minor notes in reasonable number are needed, the Engineer will make same on all copies and mark the second statement. Shop Drawings so marked need not be resubmitted.
  3. If the submitted Shop Drawings are incomplete or inadequate, the Engineer will mark the third statement, request such additional information as required, and explain the reasons for revision. The Contractor shall be responsible for revisions, and/or providing needed information, without undue delay, until such Shop Drawings are acceptable. Shop Drawings marked with No. 3 shall be completed resubmitted.
  4. If the submitted Shop Drawings are not in compliance with the Contract Documents, the Engineer will mark the fourth statement. The Contractor will be responsible to submit a new offering conforming to specific products specified herein and/or as directed per review citations.
- E. No submittal requiring a Change Order for either value or substitution or both, will be returned until the Change Order is approved or otherwise directed by the Owner.

## APPLICATION FOR USE OF SUBSTITUTE ITEM

TO: \_\_\_\_\_

PROJECT: \_\_\_\_\_

SPECIFIED ITEM:

Page	Paragraph	Description
A.		The undersigned requests consideration of the following as a substitute item in accordance with Article 6.05 of the General Conditions.
B.		Change in Contract Price (indicate + or -) \$ _____
C.		Attached data includes product description, specifications, drawings, photographs, references, past problems and remedies, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified. For consideration of the attached data as SHOP DRAWINGS, submittal shall be in accordance with requirements of Section 01061.
D.		Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The undersigned certifies that the following paragraphs, unless modified by attachments are correct:

1. The proposed substitute does not affect dimensions shown on Drawings.
2. The undersigned will pay for changes to the building design, including engineering design, detailing, and construction costs caused by the requested substitution.
3. The proposed substitution will have no adverse affect on other contractors, the construction schedule, or specified warranty requirements. (If proposed substitution affects construction schedule, indicate below using + or -)

\_\_\_\_\_ CONSECUTIVE CALENDAR DAYS

4. Maintenance and service parts will be locally available for the proposed substitution.

The undersigned further states that the function, appearance, and quality of the proposed substitution are equivalent or superior to the specified item, and agrees to reimburse the OWNER for the charges of the ENGINEER for evaluating this proposed substitute item.

E. Signature: \_\_\_\_\_

Firm: \_\_\_\_\_



Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: \_\_\_\_\_ Date: \_\_\_\_\_

Attachments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

For use by ENGINEER:

- \_\_\_\_\_ Accepted as evidenced by affixed SHOP DRAWING REVIEW stamp.
- \_\_\_\_\_ Accepted as evidenced by included CHANGE ORDER.
- \_\_\_\_\_ Not accepted as submitted. See Remarks.
- \_\_\_\_\_ Acceptance requires completion of submittal as required for SHOP DRAWINGS.
- \_\_\_\_\_ Not accepted. Do not resubmit.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Remarks: \_\_\_\_\_  
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# APPLICATION FOR USE OF "OR-EQUAL" ITEM

TO: \_\_\_\_\_

PROJECT: \_\_\_\_\_

SPECIFIED ITEM:

Page	Paragraph	Description
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A. The undersigned requests consideration of the following as an "or-equal" item in accordance with Article 6.05 of the General Conditions.

B. Change in Contract Price (indicate + or -) \$ \_\_\_\_\_

C. Attached data includes product description, specifications, drawings, photographs, references, past problems and remedies, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified. For consideration of the attached data as SHOP DRAWINGS, submittal shall be in accordance with requirements of Section 01061.

D. Signature:

Firm:

Address:

Telephone: \_\_\_\_\_

Date: \_\_\_\_\_

Attachments: \_\_\_\_\_

For use by ENGINEER:

\_\_\_\_\_ Accepted as evidenced by affixed SHOP DRAWING REVIEW stamp.

\_\_\_\_\_ Accepted as evidenced by included CHANGE ORDER.

\_\_\_\_\_ Not accepted as submitted. See Remarks.

\_\_\_\_\_ Acceptance requires completion of submittal as required for SHOP DRAWINGS.

\_\_\_\_\_ Not accepted. Do not resubmit.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Remarks: \_\_\_\_\_  
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END OF SECTION 013323

## SECTION 014126 - GENERAL REGULATIONS AND PERMITS

### PART 1 - GENERAL

#### 1.1 REGISTRATION

All Contractors shall be registered with the County Building Department. Contact the Building Department for additional registration information.

#### 1.2 PERMITS

The Contractor shall apply for and pay for all permits from the County Building Department or other authorities having jurisdiction.

#### 1.3 ARCHAEOLOGICAL DISCOVERIES

Contractors and subcontractors are required under O.R.C. Section 149.53, to notify the Ohio Historical Society and the Ohio Historic Site Preservation Board of Archaeological Discoveries located in the project area, and to cooperate with those entities in archaeological and historic surveys and salvage efforts if such discoveries are uncovered within the project area.

Contact:        Department Head  
                  Resource Protection and Review  
                  Ohio Historic Preservation Office  
                  800 E. 17th Avenue  
                  Columbus, Ohio 43211-2497  
                  614-298-2000

Should archaeological discoveries or other activities delay progress of the work, an adjustment in contract time will be made.

END OF SECTION 014126

## SECTION 014223 - INDUSTRY STANDARDS

### PART 1 - GENERAL

#### 1.1 ABBREVIATIONS

- A. Abbreviations, as used, designate the following:

AASHTO	-	American Association of State Highway and Transportation Officials
ACI	-	American Concrete Institute
AIEE	-	American Institute of Electrical Engineers
AISC	-	American Institute of Steel Construction
ANSI	-	American National Standards Institute
ASTM	-	American Society of Testing and Materials
AWWA	-	American Water Works Association
CMS	-	Construction and Material Specifications
NEMA	-	National Electrical Manufacturers Association
ODOT	-	Ohio Department of Transportation
ORC	-	Ohio Revised Code
UL	-	Underwriters Laboratories, Inc.

#### 1.2 REFERENCE TO OTHER SPECIFICATIONS

- A. Where reference is made to specifications such as ASTM, AWWA or AASHTO, the latest edition shall be used, unless otherwise noted on the plans or in the specifications.

#### 1.3 CODES AND STANDARDS

- A. All work provided for by these specifications must be installed according to the provisions of the State and local building codes, subject to inspection and acceptance by the State and local inspectors.

END OF SECTION 014223

## SECTION 014323 - QUALIFICATIONS OF TRADESMEN

### PART 1 - GENERAL

#### 1.1 CHARACTER OF WORKMEN AND EQUIPMENT

- A. The Contractor shall employ competent and efficient workmen for every kind of work. Any person employed on the work who shall refuse or neglect to obey directions of the Engineer or his representative, or who shall be deemed incompetent or disorderly, or who shall commit trespass upon public or private property in the vicinity of the work, shall be dismissed when the Engineer so orders, and shall not be re-employed unless express permission be given by the Engineer. The methods, equipment and appliances used on the work and the labor employed shall be such as will produce a satisfactory quality of work, and shall be adequate to complete the contract within the specified time limit.
  
- B. In hiring of employees for the performance of work under this Contract, or any Subcontract hereunder, no Contractor or Subcontractor, nor any person acting on behalf of such Contractor or Subcontractor, shall, by reason of race, sex, creed or color, discriminate against any citizen of the State of Ohio in the work to which the employment relates. No Contractor, Subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee hired for the performance of work under this contract on account of race, creed, sex or color.

END OF SECTION 014323

## SECTION 016600 - PRODUCT HANDLING AND PROTECTION

### PART 1 - GENERAL

#### 1.1 DELIVERY AND STORAGE OF MATERIALS

- A. The Contractor shall be responsible for delivery and storage of all materials.
- B. The Contractor shall coordinate with the Engineer on the arrangement for storing construction materials and equipment. Deliveries of all construction materials and equipment should be made at suitable times.
- C. The Contractor shall store all materials required for the performance of this contract at sites designated by the Engineer.
- D. All stockpiles shall be neat, compact, completely safe, and barricaded with warning lights if necessary.
- E. Precautions shall be taken so that no shade trees, shrubs, flowers, sidewalks, driveways or other facilities will be damaged by the storage of materials. The Contractor shall be responsible for the restoration of all stockpile sites to their original condition.
- F. Materials, tools and machinery shall not be piled or placed against shade trees, unless they shall be amply protected against injury therefrom. All materials, tools, machinery, etc. stored upon public thoroughfares must be provided with red lights at night time so as to warn the traffic of such obstruction.
- G. Materials shall be so stored as to assure the preservation of their quality and fitness for the work. Stored materials, even though approved before storage, shall again be inspected prior to their use in the work. Stored materials shall be located so as to facilitate their prompt inspection. Approved portions of the construction site may be used for storage purposes and for the placing of the Contractor's plant and equipment, but any additional space required therefore must be provided by the Contractor at his expense. Private property shall not be used for storage purposes without written permission of the property owner or lessee, and copies of such written permission shall be furnished the Engineer. All storage sites shall be restored to their original condition by the Contractor at his expense.

END OF SECTION 016600

## SECTION 017800 - FINAL COMPLIANCE AND SUBMITTALS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The following forms and related sign-offs shall be documented in accordance with provisions of the contract. These forms shall be completed by the Contractor and approved by the Owner before final retainer is approved for release. Forms for Items A to E will be attached to the Contractor's executed copy of the contract.
1. Certificate of Substantial Completion (To be submitted at time of Substantial Completion).
  2. Contractor's Certification of Completion.
  3. Contractor's Affidavit of Prevailing Wage.
  4. Consent of Surety Company for Final Payment.
  5. Affidavit of Final Acceptance Date and Correction Period.
  6. Certificate of insurance verifying completed operations insurance coverage.
  7. Contractor's Affidavit of Record Drawing Submittal.

END OF SECTION 017800



## SECTION 017821 - CLEANING AND PROTECTION

### PART 1 - GENERAL

#### 1.1 GENERAL

- A. On or before the completion date for the work, the Contractor shall tear down and remove all temporary structures built by him, all construction plant used by him, and shall repair and replace all parts of existing embankments, fences or other structures which were removed or injured by his operations or by the employees of the Contractor. The Contractor shall thoroughly clean out all buildings, sewers, drains, pipes, manholes, inlets and miscellaneous and appurtenant structures, and shall remove all rubbish leaving the grounds in a neat and satisfactory condition.
- B. As circumstances require and when ordered by the Engineer, the Contractor shall broom sweep and/or hose-wash the hard surface of the road or any driveway or sidewalk surface on which construction activity under this contract has resulted in dirt or any other foreign material being deposited.
- C. Failure to comply with this requirement when ordered by the Engineer or his representative, may serve as cause for the Engineer to stop the work and to withhold any monies due the Contractor until such order has been complied with to the satisfaction of the Engineer.
- D. As the work progresses, and as may be directed, the Contractor shall remove from the site and dispose of debris and waste material resulting from his work. Particular attention shall be given to minimizing any fire and safety hazard from form materials or from other combustibles as may be used in connection with the work, which should be removed daily.
- E. The Contractor shall wash all windows and other glass surfaces, leaving all areas free from any dirt or dust resulting from construction activities.
- F. During and after installation, the Contractor shall furnish and maintain satisfactory protection to all equipment against injury by weather, flooding or breakage thereby permitting all work to be left in a new condition at the completion of the contract.

END OF SECTION 017821

## SECTION 017823 - MAINTENANCE MANUALS

### PART 1 - GENERAL

#### 1.1 OPERATION AND MAINTENANCE MANUALS

- A. The initial submittal process for approval of O&M Manual content will be electronic. Once approved, hard copies as specified below shall be supplied.
- B. Operation and maintenance information shall be submitted for all manufactured items, i.e. equipment, hardware, pumps, valves, motors, etc.
- C. This manual will either contain or make reference to all information that has been issued during the construction and start-up periods, as well as information necessary for the proper operation and maintenance of equipment.
- D. It shall be the responsibility of the Contractor who supplies such equipment to obtain from his vendors the required information and submit to the Engineer. This information will be accepted only if properly identified and only after it has been revised, where necessary, to conform to previous transmittals of the same material that have been "approved as noted" by the Engineer. All submittals shall be on 8-1/2" x 11" size paper or folded to that size.
- E. In general and where applicable, the information shall consist of, but not be limited to, three (3) sets of the following:
  - 1. Descriptive literature, bulletins or other data covering equipment or system.
  - 2. Complete list of equipment and appurtenances included with system, complete with manufacturer and model number.
  - 3. Utility requirements.
  - 4. General arrangement drawing.
  - 5. Sectional assembly.
  - 6. Dimension print.
  - 7. Materials of construction.
  - 8. Certified performance curve.
  - 9. Performance guarantee.
  - 10. Storage instructions.
  - 11. Installation and start-up instructions.
  - 12. Complete parts list.
  - 13. Recommended spare parts list with part and catalog number.
  - 14. Lubrication recommendations and instructions.
  - 15. Schematic wiring diagrams.
  - 16. Schematic piping diagrams.
  - 17. Instrumentation data.
  - 18. Drive dimensions and data.
  - 19. Control data.

20. Operating instructions.
21. Maintenance instructions including troubleshooting guidelines and preventative maintenance instructions with task schedule.
22. Required tools and equipment for operation and maintenance.
23. Safety considerations for O & M procedures.

END OF SECTION 017823