

Specifications & Contract Documents

prepared for the

Muhlenberg County Water District #1



for the proposed

**KY Highway 176 - Drakesboro Road
WATERLINE REPLACEMENT PROJECT**

WX21177023

prepared by

MCGHEE ENGINEERING, INC.

Guthrie, Kentucky

April 2024

Muhlenberg County Water District #1

KY Highway 176 – Drakesboro Road WATERLINE REPLACEMENT PROJECT – WX21177023

CONTRACT DOCUMENTS

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Contract Drawings

Contract Drawings consist of 5 sheets bound separately from this document.

ADVERTISEMENT FOR BIDS

Muhlenberg County Water District #1
P.O. Box 348 – 301 Dean Road
Greenville, KY 42345

**RE: KY Highway 176 – Drakesboro Road
Waterline Replacement Project**

The **Muhlenberg County Water District #1** will receive separate, sealed Bids for their **Drakesboro Road Waterline Replacement Project** until **3:00 P.M. (local time), Tuesday, August 20, 2024** at the office of Muhlenberg County Water District #1, 301 Dean Road, P.O. Box 348, Greenville, Kentucky 42345, at which time they will be publicly opened and read aloud.

The contract involves the replacement of nearly 2,500 LF of 6" water main & appurtenances along a section of KY Highway 176 (Drakesboro Road), all east of Greenville (Muhlenberg County). All work shall be as described by the Contract Drawings and Specifications. Bids will be received for a single prime Contract. Bids shall be on a unit price basis.

The Issuing Office for the Bidding Documents is: McGhee Engineering, Inc., at P.O. Box 267, 202 South Ewing Street, Guthrie, Kentucky 42234 or by calling (270) 483-9985. Perspective Bidders may examine the Bidding Documents at the Issuing Office on Mondays through Fridays between the hours of 8:30-4:30 pm, and may obtain copies of the Bidding Documents from the Issuing Office as described below. Plans must be ordered by visiting www.mcgheeengineering.com and clicking "**Bid Opportunities**". Plans will be sold with an option of Digital only OR Printed Set w/ Digital copy. Bids will be accepted only from registered contractors holding approved bid forms provided by the Issuing Office. Plan holders may be viewed at www.mcgheeengineering.com.

All bidders shall submit with their bid an acceptable bid bond or a certified check in the amount of five percent (5%) of the bid, payable to the Owner. The Owner reserves the right to waive any informalities or to reject any and all bids. No bidder may withdraw their bid after the date of the bid opening. The award of this project will be to the lowest, responsive, responsible bidder. The Bidder awarded the contract shall substantially complete this project within **60** calendar days. Liquidated damages will be assessed at **\$500** per calendar day. This project is funded with District Reserve monies and with Clean Water Program (CWP) grant funds administered through the Kentucky Infrastructure Authority (KIA). Applicable CWP requirements and provisions must be met by the Bidder and all subcontractors.

Published by the authority of the Muhlenberg County Water District #1
Mike Camplin, Chairman

Dated: July 30, 2024

INSTRUCTIONS TO BIDDERS

A. These Instructions to Bidders establish requirements for Bidding and Award of Contract.

B. Table of Articles

Article 1 – Defined Terms

Article 2 – Copies of Bidding Documents

Article 3 – Qualifications of Bidders

Article 4 – Site and Other Areas; Existing Site Conditions; Examination of Site; Owner’s Safety Program;
Other Work at the Site

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Article 26 – Laws, Ordinances & Regulations

Article 27 – Insurance

Article 28 – Safety Standards & Accident Prevention

ARTICLE 1- DEFINED TERMS

Other terms used in the bidding documents and not defined elsewhere have the following meanings which are applicable to both the singular and plural thereof.

1.01 Terms used in these Instructions to Bidders will have the meanings indicated in the General Conditions and the Supplementary Conditions. Additional terms used in these Instructions to Bidders have the meanings indicated below which are applicable to both the singular and plural thereof.

- A. Bidder - The individual or entity who submits a Bid directly to OWNER.
- B. Issuing Office - The office from which the Bidding Documents are to be issued.
- C. Successful Bidder - The lowest responsible Bidder submitting a responsive Bid to whom OWNER (on the basis of OWNER's evaluation as hereinafter provided) makes an award.

ARTICLE 2 - COPIES OF BIDDING DOCUMENTS

2.01 Complete sets of the Bidding Documents may be obtained from the Issuing Office in the number and format stated in the advertisement or invitation to bid.

2.02 Complete sets of Bidding Documents must be used in preparing Bids; neither OWNER nor ENGINEER assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

2.03 OWNER and ENGINEER in making copies of Bidding Documents available on the above terms do so only for the purpose of obtaining Bids for the Work and do not confer a license or grant for any other use.

ARTICLE 3 - QUALIFICATIONS OF BIDDERS

3.01 To demonstrate Bidder's qualifications to perform the Work, after submitting its Bid and within **10** days of Owner's request, Bidder shall submit (a) written evidence establishing its qualifications such as financial data, previous experience, and present commitments, and (b) the following additional information:

- A. Evidence of Bidder's authority to do business in the state where the Project is located.
- B. Bidder's state or other contractor license number, if applicable.
- C. Subcontractor and Supplier qualification information; coordinate with provisions of Article 12 of these Instructions, "Subcontractors, Suppliers, and Others."

3.02 A Bidder's failure to submit required qualification information within the times indicated may disqualify Bidder from receiving an award of the Contract.

3.03 No requirement in this Article 3 to submit information will prejudice the right of Owner to seek additional pertinent information regarding Bidder's qualifications.

3.04 Bidder is advised to carefully review those portions of the Bid Form requiring Bidder's representations and certifications.

ARTICLE 4 - SITE AND OTHER AREAS; EXISTING SITE CONDITIONS; EXAMINATION OF SITE; OWNER'S SAFETY PROGRAM; OTHER WORK AT THE SITE

4.01 *Site and Other Areas*

- A. The Site is identified in the Bidding Documents. By definition, the Site includes rights-of-way, easements, and other lands furnished by Owner for the use of the Contractor. Any additional lands required for temporary construction facilities, construction equipment, or storage of materials and equipment, and any access needed for such additional lands, are to be obtained and paid for by Contractor.

4.02 *Existing Site Conditions*

A. Subsurface and Physical Conditions; Hazardous Environmental Conditions

1. The Supplementary Conditions identify:

- a. those reports known to Owner of explorations and tests of subsurface conditions at or adjacent to the Site.
- b. those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities).
- c. reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site.
- d. Technical Data contained in such reports and drawings.

- 2. Owner will make copies of reports and drawings referenced above available to any Bidder on request. These reports and drawings are not part of the Contract Documents, but the Technical Data contained therein upon whose accuracy Bidder is entitled to rely, as provided in the General Conditions, has been identified and established in the Supplementary Conditions. Bidder is responsible for any interpretation or conclusion Bidder draws from any Technical Data or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.

- 3. If the Supplementary Conditions do not identify Technical Data, the default definition of Technical Data set forth in Article 1 of the General Conditions will apply.

- B. Underground Facilities: Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or adjacent to the Site are set forth in the Contract Documents and are based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner, or others.

- C. Adequacy of Data: Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to subsurface conditions, other physical conditions, and Underground Facilities, and possible changes in the Bidding Documents due to differing or unanticipated subsurface or physical conditions appear in Paragraphs 5.03, 5.04, and 5.05 of the General Conditions. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to a Hazardous Environmental Condition at the Site, if any, and possible changes in the Contract Documents due to any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work, appear in Paragraph 5.06 of the General Conditions.

4.03 *Site Visit and Testing by Bidders*

- A. Bidder shall conduct the required Site visit during normal working hours, and shall not disturb any ongoing operations at the Site.

- B. Bidder is not required to conduct any subsurface testing, or exhaustive investigations of Site conditions.
- C. On request, and to the extent Owner has control over the Site, and schedule permitting, the Owner will provide Bidder access to the Site to conduct such additional examinations, investigations, explorations, tests, and studies as Bidder deems necessary for preparing and submitting a successful Bid. Owner will not have any obligation to grant such access if doing so is not practical because of existing operations, security or safety concerns, or restraints on Owner's authority regarding the Site.
- D. Bidder shall comply with all applicable Laws and Regulations regarding excavation and location of utilities, obtain all permits, and comply with all terms and conditions established by Owner or by property owners or other entities controlling the Site with respect to schedule, access, existing operations, security, liability insurance, and applicable safety programs.
- E. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies.

4.04 *Owner's Safety Program*

- A. Site visits and work at the Site may be governed by an Owner safety program. As the General Conditions indicate, if an Owner safety program exists, it will be noted in the Supplementary Conditions.

4.05 *Other Work at the Site*

- A. Reference is made to Article 8 of the Supplementary Conditions for the identification of the general nature of other work of which Owner is aware (if any) that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) and relates to the Work contemplated by these Bidding Documents. If Owner is party to a written contract for such other work, then on request, Owner will provide to each Bidder access to examine such contracts (other than portions thereof related to price and other confidential matters), if any.

ARTICLE 5 – BIDDER'S REPRESENTATIONS

5.01 It is the responsibility of each Bidder before submitting a Bid to:

- A. examine and carefully study the Bidding Documents, and any data and reference items identified in the Bidding Documents;
- B. visit the Site, conduct a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfy itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;
- C. become familiar with and satisfy itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work,
- D. carefully study all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings;
- E. consider the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the

Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs;

- F. agree, based on the information and observations referred to in the preceding paragraph, that at the time of submitting its Bid no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents;
- G. become aware of the general nature of the work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents;
- H. promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder;
- I. determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work; and
- J. agree that the submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 6 – PRE-BID CONFERENCE

6.01 If warranted, a pre-Bid conference will be held at the time and location stated in the invitation or advertisement for bids. Representatives of Owner and Engineer will be present to discuss the Project. Bidders are encouraged to attend and participate in the conference. Engineer will transmit to all prospective Bidders of record such Addenda as Engineer considers necessary in response to questions arising at the conference. Oral statements may not be relied upon and will not be binding or legally effective.

ARTICLE 7 - INTERPRETATIONS AND ADDENDA

7.01 All questions about the meaning or intent of the Bidding Documents are to be submitted to Engineer in writing. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda delivered to all parties recorded as having received the Bidding Documents. Questions received less than seven days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

7.02 Addenda may be issued to clarify, correct, supplement, or change the Bidding Documents. Addenda will be mailed no later than **three days** prior to the day set for receiving Bids. Failure of any Bidder to receive any such Addendum or interpretation shall not relieve such Bidder from any obligations under the Bid as submitted. All Addenda so issued shall become part of the Contract Documents.

7.03 Addenda may also be issued to clarify, correct, or change the Bidding Documents as deemed advisable by OWNER or ENGINEER.

7.04 Receipt of all addenda must be acknowledged in space provided in the Bid.

ARTICLE 8 - BID SECURITY

8.01 A Bid must be accompanied by Bid security made payable to OWNER in an amount of **five percent (5%)** of the Bidder's maximum Bid price and in the form of a certified check or a Bid Bond (EJCDC No. C-430, 2013 Edition) issued by a surety meeting the requirements of paragraphs 6.01 and 6.02 of the General Conditions.

8.02 The Bid security of the apparent Successful Bidder will be retained until Owner awards the contract to such Bidder, and such Bidder has executed the Contract Documents, furnished the required contract security, and met the other conditions of the Notice of Award, whereupon the Bid security will be released. If the Successful Bidder fails to execute and deliver the Contract Documents and furnish the required contract security within 10 days after the Notice of Award, Owner may consider Bidder to be in default, annul the Notice of Award, and the Bid security of that Bidder will be forfeited. Such forfeiture shall be Owner's exclusive remedy if Bidder defaults.

8.03 The Bid security of other Bidders that Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of seven days after the Effective Date of the Contract or 91 days after the Bid opening, whereupon Bid security furnished by such Bidders will be released.

8.04 Bid security of other Bidders that Owner believes do not have a reasonable chance of receiving the award will be released within seven days after the Bid opening.

ARTICLE 9 - CONTRACT TIMES

9.01 The number of days within which, or the dates by which the Work is to be substantially completed, and completed and ready for final payment, are set forth in the Agreement.

ARTICLE 10 - LIQUIDATED DAMAGES

10.01 Provisions for liquidated damages in any for failure to timely attain Substantial Completion or completion of the Work in readiness for final payment, are set forth in the Agreement.

ARTICLE 11 - SUBSTITUTE OR "OR-EQUAL" ITEMS

11.01 The Contract for the Work, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents, and those "or-equal" or substitute or materials and equipment subsequently approved by Engineer prior to the submittal of Bids and identified by Addendum. No item of material or equipment will be considered by Engineer as an "or-equal" or substitute unless written request for approval has been submitted by Bidder and has been received by Engineer at least 15 days prior to the date for receipt of Bids in the case of a proposed substitute and 5 days prior in the case of a proposed "or equal". Each such request shall comply with the requirements of Paragraphs 7.04 and 7.05 of the General Conditions. Each such request shall include Manufacturer's Certification letter for compliance with AIS requirements and subsequent statutes mandating domestic preference, if applicable. Refer to Manufacturer's Certification Letter provided in these Contract Documents.

11.02 All prices that Bidder sets forth in its Bid shall be based on the presumption that the Contractor will furnish the materials and equipment specified or described in the Bidding Documents, as supplemented by Addenda. Any assumptions regarding the possibility of post-Bid approvals of "or-equal" or substitution requests are made at Bidder's sole risk.

11.03 If award is made, Contractor shall be allowed to submit proposed substitutes and "or equals" in accordance with the General Conditions.

ARTICLE 12 - SUBCONTRACTORS, SUPPLIERS, AND OTHERS

12.01 A list of subcontractors, suppliers, individuals, or entities shall be submitted along with the Bid at the Bid Opening to the OWNER. If requested by Owner, such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, or other individual or entity. If Owner or Engineer, after due investigation, has reasonable objection to any proposed Subcontractor, Supplier, individual, or entity, Owner may, before the Notice of Award is given, request apparent Successful Bidder to submit an acceptable substitute, in which case apparent Successful Bidder shall submit a substitute, Bidder's Bid price will be increased (or decreased) by the difference in cost occasioned by such substitution, and Owner may consider such price adjustment in evaluating Bids and making the Contract award.

12.02 If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposes to use acceptable Subcontractors, Suppliers, or other individuals or entities. Declining to make requested substitutions will constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner or Engineer makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner and Engineer subject to subsequent revocation of such acceptance as provided in Paragraph 7.06 of the General Conditions.

12.03 CONTRACTOR shall not be required to employ any subcontractor, supplier, individual, or entity against whom CONTRACTOR has reasonable objection.

12.04 The CONTRACTOR shall not award work to Subcontractor(s) in excess of the limits stated in SC 7.06.

ARTICLE 13 – PREPARATION OF BID

13.01 The Bid Form is included with the Bidding Documents.

- A. All blanks on the Bid form must be typed or completed in ink and the Bid Form signed in ink. Erasures or alterations shall be initialed in ink by the person signing the Bid Form. A Bid price shall be indicated for each section, Bid item, alternative, adjustment unit price item, and unit price item listed therein.
- B. If the Bid Form expressly indicates that submitting pricing on a specific alternate item is optional, and Bidder elects to not furnish pricing for such optional alternate item, then Bidder may enter the words "No Bid" or "Not Applicable."

13.02 A Bid by a corporation shall be executed in the corporate name by a corporate officer (whose title must appear under the signature), accompanied by evidence of authority to sign. The corporate address and state of incorporation shall be shown. The corporate seal shall be affixed and attested by the secretary or an assistant secretary.

13.03 A Bid by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature), accompanied by evidence of authority to sign. The official address of the partnership shall be shown below the signature.

13.04 A Bid by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm shall be shown below the signature.

13.05 A Bid by an individual shall show the Bidder's name and address for receiving notices.

13.06 A Bid by a joint venture shall be executed by each joint venturer in the manner indicated on the Bid form. The joint venture's address for receiving notices shall be shown.

13.07 All names shall be typed or printed in ink below the signatures.

13.08 The Bid shall contain an acknowledgment of receipt of all Addenda, the number and dates of which must be filled in on the Bid form.

13.09 Postal and e-mail addresses and telephone number for communications regarding the Bid shall be shown.

13.10 The Bid shall contain evidence of Bidder's authority and qualification to do business in the state where the Project is located, or Bidder shall covenant in writing to obtain such authority and qualification prior to award of the Contract and attach such covenant to the Bid. Bidder's state contractor license number, if any, shall also be shown on the Bid Form.

ARTICLE 14 - BASIS OF BID; COMPARISON OF BIDS

14.01 Bidders shall submit a Bid on a unit price basis for each item of Work listed in the unit price section of the Bid Form.

14.02 The "Bid Price" (sometimes referred to as the extended price) for each unit price Bid item will be the product of the "Estimated Quantity" (which Owner or its representative has set forth in the Bid Form) for the item and the corresponding "Bid Unit Price" offered by the Bidder. The total of all unit price Bid items will be the sum of these "Bid Prices"; such total will be used by Owner for Bid comparison purposes. The final quantities and Contract Price will be determined in accordance with Paragraph 13.03 of the General Conditions.

14.03 Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

ARTICLE 15 - SUBMITTAL OF BID

15.01 Bid Form is to be completed and submitted with all the attachments as required. Bidder shall furnish at least one separate, unbound copy of the Bid Form, along with the Bidder's Qualifications Statement in a sealed envelope. All envelopes prepared as outlined in Paragraph 15.02.

15.02 A Bid shall be received no later than the date and time prescribed and at the place indicated in the advertisement or invitation to bid and shall be enclosed in a plainly marked package with the Project title (and, if applicable, the designated portion of the Project for which the Bid is submitted), the name and address of Bidder, and shall be accompanied by the Bid security and other required documents. If a Bid is sent by mail or other delivery system, the sealed envelope containing the Bid shall be enclosed in a separate package plainly marked on the outside with the notation "BID ENCLOSED." A mailed Bid shall be addressed to the location of the bid opening, as listed in the Advertisement.

15.03 Bids received after the date and time prescribed for the opening of bids, or not submitted at the correct location or in the designated manner, will not be accepted and will be returned to the Bidder unopened.

ARTICLE 16 - MODIFICATION AND WITHDRAWAL OF BIDS

16.01 A Bid may be modified or withdrawn by an appropriate document duly executed in the manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date

and time for the opening of Bids. Upon receipt of such notice, the unopened Bid will be returned to the Bidder.

16.02 If a Bidder wishes to modify its Bid prior to Bid opening, Bidder must withdraw its initial Bid in the manner specified in Paragraph 16.01 and submit a new Bid prior to the date and time for the opening of Bids.

16.03 If within 24 hours after Bids are opened any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned. Thereafter, if the Work is rebid, that Bidder will be disqualified from further bidding on the Work.

ARTICLE 17 - OPENING OF BIDS

17.01 Bids will be opened at the time and place indicated in the advertisement or invitation to bid and, unless obviously non-responsive, read aloud publicly. An abstract of the amounts of the base Bids and major alternates, if any, will be made available to Bidders after the opening of Bids.

ARTICLE 18 - BIDS TO REMAIN SUBJECT TO ACCEPTANCE

18.01 All Bids will remain subject to acceptance for a period of **10 days**, but OWNER may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

ARTICLE 19 – EVALUATION OF BIDS & AWARD OF CONTRACT

19.01 Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner will reject the Bid of any Bidder that Owner finds, after reasonable inquiry and evaluation, to not be responsible. If Bidder purports to add terms or conditions to its Bid, takes exception to any provision of the Bidding Documents, or attempts to alter the contents of the Contract Documents for purposes of the Bid, then the Owner will reject the Bid as nonresponsive; provided that Owner also reserves the right to waive all minor informalities not involving price, time, or changes in the Work.

19.02 If Owner awards the contract for the Work, such award shall be to the responsible Bidder submitting the responsive Bid perceived by the Owner as offering the greatest advantage to the Owner.

19.03 Evaluation of Bids

- A. In evaluating Bids, OWNER will consider whether or not the Bids comply with the prescribed requirements, and such alternatives, unit prices, and other data as may be requested in the Bid form or prior to the Notice of Award.
- B. For the determination of the apparent low Bidder(s) when unit price bids are submitted, Bids will be compared on the basis of the total of the products of the estimated quantity of each item and unit price Bid for that item, together with any lump sum items.

19.04 In evaluating whether a Bidder is responsible, Owner will consider the qualifications of the Bidder and may consider the qualifications and experience of Subcontractors and Suppliers proposed for those portions of the Work for which the identity of Subcontractors and Suppliers must be submitted as provided in the Bidding Documents.

19.05 Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders and any proposed Subcontractors or Suppliers.

19.06 The Bid is subject to Kentucky Revised Statutes Section 45A.490 through 45A.494, which in general provides that a "resident bidder" of Kentucky is to be given a bidding preference over a "nonresident bidder" who is registered in a state that gives preference to its in-state resident bidders over a Kentucky resident bidder. The bidding preference is to be the same as that stipulated of the state of the "nonresident bidder." If the state of "nonresident bidder" provides no specific preference, then "resident" and "nonresident bidders" are to be treated the same when evaluating Bids.

19.07 If a Contract is to be awarded, OWNER will give the successful Bidder a Notice of Award within 90 days after the time set for opening Bids. **Note that the OWNER reserves the right to award only a portion of the work, at the stated unit prices, due to the possible limited funds available for the project.**

ARTICLE 20 - BONDS AND INSURANCE

20.01 Article 6 of the General Conditions, as may be modified by the Supplementary Conditions, sets forth OWNER's requirements as to performance and payment bonds and insurances. When the Successful Bidder delivers the executed Agreement to OWNER, it must be accompanied by the required performance and payment bonds and insurances.

20.02 All bonds required by the project shall be payable to the OWNER in an amount of one hundred percent of the Contractor's maximum Base Bid price.

ARTICLE 21 - SIGNING OF AGREEMENT

21.01 When the OWNER gives a Notice of Award to the Successful Bidder, it will be accompanied by a list of items and information required of the Successful Bidder for evaluation by the OWNER and funding agency, if applicable. Within 10 days thereafter, the successful Bidder shall deliver the full number of original copies of the items listed and the Notice must be acknowledged by the Successful Bidder within 10 days thereafter. After receipt of an acknowledged Notice of Award, a pre-construction meeting will be scheduled at which time the OWNER and Successful Bidder will execute the required number of Agreements and Notice to Proceed. After certification by the Local Counsel and any other required parties, the OWNER shall deliver one fully signed counterpart to the Successful Bidder along with a complete set of Drawings with appropriate identification. OWNER will furnish the Contractor up to three (3) sets of conforming Contract Documents, Technical Specifications and Plans free of charge. Additional sets may be obtained from the Engineer at commercial reproduction rates. The successful bidder shall commence work within ten (10) calendar days after receipt of written notice to proceed and shall progress therewith so that the work shall be completed in accordance with the terms of the Contract Documents within the time allowed after the date of the commencement of contract time.

21.02 **This Contract is expected to be funded with Owner Reserves and in part with funds provided by the Cleaner Water Program (CWP) grant funds as administered by the Kentucky Infrastructure Authority (KIA). CWP requirements and provisions must be met by the Bidder and all subcontractors.**

21.03 Concurrence by KIA in the award of the Contract may be required before the Contract is effective.

ARTICLE 22 - RETAINAGE

22.01 Prior to Substantial Completion, OWNER will retain an amount equal to 5% of each progress payment application. Amounts previously retained shall not be paid to the CONTRACTOR until substantial completion of the Work. In no event shall the total Retainage be more than 5% of the value of the work satisfactorily completed.

22.02 Retainage shall be applicable to the Total Value of Work and Stored Materials less the Value of In-place OWNER Purchased Materials.

ARTICLE 23 – LICENSES, FEES, AND TAXES

23.01 **The Bidder shall be aware of the current KRS 139.480(34) {revised January 2023} regarding the tax exemption for building materials, fixtures, and supplies purchased by a construction contractor for a sewer or water project with a governmental agency. No sales tax shall be included in the stated bid prices. The awarded contractor will be required to complete a Certificate of Exemption (see Appendix) with each vendor on the project.** Bidders who are uncertain as to other items subject to tax, or who require further explanation or clarification, are requested to contact the State of Kentucky Revenue Cabinet.

23.02 Successful Bidder must comply with any City ordinances relating to Occupational License Fees, Business Licenses, payroll, and net profits taxes and any other ordinances which may apply to the project. Refer to the Supplementary Conditions SC-6.10 for additional information.

23.03 Successful Bidder must provide proof of having all such licenses or fees at or before the signing of the Contract.

ARTICLE 24 - WAGE RATE DETERMINATION

24.01 If the contract price is in excess of \$1,000,000, provisions of the Contract Work Hours and Safety Standards Act at 29 CFR 5.5(b) apply.

24.02 Pursuant to 2017 Kentucky House Bill 3, State prevailing wages do not apply to this Contract.

24.03 Federal Davis Bacon wage rates do not apply to this Contract.

ARTICLE 25 – OTHER BID REQUIREMENTS

25.01 Bidder shall complete the following documents attached to the Bid:

Statement of Experience

ARTICLE 26 – LAWS, ORDINANCES, AND REGULATIONS

26.01 Bidder must familiarize itself with all laws, ordinances, and regulations by federal, state, city, or other governmental agency, which by reason of being neglected or violated may affect the Work contemplated and must secure and pay the fee required for any permits which may be necessary unless such fees are otherwise indicated to be paid in the Bidding Documents.

26.02 Bidders must comply with Title VI of the Civil Rights Act of 1964, the Anti-Kickback Act, and the Contract Work Hours Standard Act.

26.03 Bidders must comply with the President's Executive Order No. 11246 as amended, which prohibits discrimination in employment regarding race, creed, color, sex or national origin.

26.04 This project will be in compliance with Executive Order 11246 (Equal Employment Opportunity) as amended.

26.05 The Contractor/Subcontractor will comply with 41CFR 60-4, in regard to affirmative action, to insure equal opportunity to females and minorities and will apply the time tables and goals set forth in 41 CFR 60-4.

26.06 Bidder will make positive efforts to use small, minority, women owned and disadvantaged businesses.

26.07 Bidder/Owner will comply to provisions for timely periodic payments and for limiting retainage (40 CFR 31.36).

ARTICLE 27 – INSURANCE

27.01 Before execution of Contract by OWNER, the successful Bidder shall furnish OWNER a certificate or certificates issued by or on behalf of insurers or a self-insurance program or group self insurance program, qualified to do business in the Commonwealth of Kentucky under KRS Chapter 304 or KRS Chapter 342, certifying that the successful Bidder complies with the Worker's Compensation laws of Kentucky and is insured or indemnified against public liability claims which may arise out of the performance of the Work under the proposed Contract.

ARTICLE 28 – SAFETY STANDARDS AND ACCIDENT PREVENTION:

28.01 With respect to all work performed under this contract, the contractor shall:

Comply with the safety standards provision of applicable laws, building and construction codes and the "Manual of Accident Prevention in Construction" published by the Associated General Contractors of America, the requirements of the Occupational Safety and Health Act of 1970 (Public Law 91-596), and the requirements of Title 29 of the Code of Federal Regulations, Section 1518 as published in the "federal Register", Volume 36, No. 75, Saturday, April 17, 1971. Exercise every precaution at all times for the prevention of accidents and the protection of persons (including employees) and property. Maintain at his/her office or other well know place at the job site, all articles necessary for giving first aid to the injured, and shall make standing arrangements for the immediate removal to a hospital or a doctor's care of persons (including employees), who may be injured on the job site before the employer has made a standing arrangement for removal of injured persons to a hospital or a doctor's care.

BID FORM

Project Identification: Muhlenberg County Water District #1's
KY Highway 176 – Drakesboro Waterline Replacement

Contract Identification: KY Highway 176 – Drakesboro Waterline Replacement

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is Submitted to: Muhlenberg County Water District #1
PO Box 348
Greenville, Kentucky 42345

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in the Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER'S ACKNOWLEDGMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for **90 days** after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No. _____ Date _____
Addendum No. _____ Date _____
Addendum No. _____ Date _____

B. Bidder has visited the Point of Destination and site where the Goods or Special Services will be provided and become familiar with and is satisfied as to the observable local conditions that may affect cost, progress, or the furnishing of Goods and Special Services, if required to do so by the Bidding Documents, or if, in Bidder's judgment, any local condition may affect cost, progress, or the furnishing of Goods and Special Services

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and

procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.
- K. **The Bidder shall be aware of the current KRS 139.480(3) regarding the tax exemption for building materials, fixtures, and supplies purchased by a construction contractor for a sewer or water project with a governmental agency. No sales tax shall be included in the stated bid prices. The awarded contractor will be required to complete a Certificate of Exemption (see Appendix) with each vendor on the project.**

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 - 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will compete the Work in accordance with the Contract Documents for the following prices:

Base Bid: Master Meter Vault Additions					
Item No.	Item	Quantity	Units	Unit Price	Total Price
A01	6-inch PVC Class 200 SDR 21 waterline, in place & ready for use, including testing clean-up. <i>{Note pay limits per Spec 02-500, Section 2.0}</i>	2,265	LF	\$ _____	\$ _____
A02	6-inch SDR21 Yelomine-CertaLok PVC water line & ready for use, including testing & clean up. <i>{Note pay limits per Spec 02-500, Section 2.0}</i>	200	LF	\$ _____	\$ _____
A03	Uncased Driveway Bore (all line sizes) in place, complete & ready for use.	103	LF	\$ _____	\$ _____
A04	Final Cleanup of affected water main route (<u>Exc. Bores & paved areas</u>) in accordance with Spec 02-500, Sect. 3.0 <i>{Note minimum unit price stipulation.}</i>	2,294	LF	\$ _____ <i>(\$4.00 Minimum)}</i>	\$ _____
A05	Shallow Creek/Ditch Crossing (all line sizes) in place, complete & ready for use.	25	LF	\$ _____	\$ _____
A06	Pavement Repair, Replacement & Backfill of affected waterline trenches per Detail 8, Sheet D1; in place, complete & ready for use.	63	LF	\$ _____	\$ _____
A07	Flush Hydrant with 6" Gate Valve & 6" Ductile Iron Spool Pipe connected to new waterline in place, complete and ready for use.	1	EA	\$ _____	\$ _____
A08	6"x6" tapping sleeve, valve, box, applicable fittings, all in place, complete and ready for use.	2	EA	\$ _____	\$ _____
A09	6" gate valve and box, including applicable fittings, in place, complete & ready to use.	2	EA	\$ _____	\$ _____
A10	Plug & Cap existing 6-in waterline at project completion, <u>including all surface restoration</u> , in place, complete & ready for use	2	EA	\$ _____	\$ _____
A11	Reconnect existing far side meter with new 3/4" service line from main to meter, encased under road, <u>including ALL ground or pavement restoration</u> ; in place, complete & ready for use	3	EA	\$ _____	\$ _____
A12	Reconnect existing near side meter with new 3/4" service line from main to meter, <u>including ALL ground or pavement restoration</u> ; in place, complete and ready for use.	2	EA	\$ _____	\$ _____
A13	Relocate & Reconnect Near Side Water Meter to new main & existing customer's service line all w/ new tubing, casing pipe, new meter box, new setter & fittings; in place & ready for use.	11	EA	\$ _____	\$ _____

TOTAL AMOUNT OF BID \$ _____

- 5.02 Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) **respective Bid Unit Prices includes an amount considered by Bidder to be adequate to cover incidental work items referenced and noted on the plans to satisfy landowner/easement stipulations.**
- 5.03 Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.
- 5.04 **SUPPLEMENTAL UNIT PRICES:** The following Supplemental Unit Prices will apply in the event that additions to or deductions from the work required in the Bid are ordered. A single price shall be bid for each item. OWNER reserves the right to accept or reject these prices by inclusion in or omission from the Contract Documents to be executed after the award of the Contract.

Item	Type of Work	Unit	Supplemental Unit Price	
			(Words)	(Numbers)
1.	Unclassified undercut, where ordered by the Engineer.	CY	_____ Dollars	\$ _____.
2.	No. 57 aggregate refill, where ordered by the Engineer.	Ton	_____ Dollars	\$ _____.
3.	Class "B" concrete refill, where ordered by the Engineer	CY	_____ Dollars	\$ _____.
4.	Isolated Gate Valve Addition on Existing 6" Line via Cut-in, including applicable fittings & piping, in place, complete & ready to use	EA	_____ Dollars	\$ _____.
5.	Isolated Valve Insertion on Existing 6" Waterline including surface repair, in place, complete & ready for use.	EA	_____ Dollars	\$ _____.
6.	Steel Cased, Road Bore, 10" casing (excluding 6" carrier) in place, complete & ready for use.	LF	_____ Dollars	\$ _____.
7.	Open Cut, Steel cased Road Crossing, 10" casing (excluding 6" carrier) in place, complete & ready for use.	LF	_____ Dollars	\$ _____.
8.	Isolated Waterline Marker, separate from those specified for other bid items, in place, complete & ready for use.	EA	_____ Dollars	\$ _____.

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are attached to and made a condition of the Bid:

- A. Required Bid security in the form of a Bid Bond (EJCDC No. C-430) or Certified Check (circle type of security provided);
- B. Statement of Experience

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with the initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

9.01 This Bid submitted by:

Submitted by:

Signature	Business
Printed or Typed Name	Bidder's Business Address
Title	City, State, Zip Code
Employer's Tax ID No.	Business Phone No. Business Fax No.
Business Email Address	Cell Phone No. Other Contact No.

9.02 Bid submitted on _____, 2024.

Seal (if required)

SUMMARY OF WORK

1.0 WORK COVERED BY CONTRACT DOCUMENTS

The Work to be performed involves the installation of new water pipeline and appurtenances to replace an existing section of waterline along KY Highway 176 (Drakesboro Road) just east of Greenville, Kentucky (Muhlenberg Co.), all as described by the Contract Drawings and Specifications.

2.0 CONTRACTOR'S DUTIES

2.1 Construction and Related Activities

The Contractor shall provide and pay for all labor, materials, equipment, machinery, tools, superintendence, insurance, bonds, shipping, sampling and testing, utilities, and other costs required for a complete and functioning water line installation.

2.2 Taxes

The Contractor shall pay all required sales taxes, payroll taxes, consumer and use taxes, and other taxes relating to the work of the project.

2.3 Permits

The contractor shall secure and pay for all legally required permits, licenses and fees associated with the construction, as may be required.. In particular, the Contractor shall:

- A. Comply with the General Certification – Nationwide Permit #12 for Utility Line Backfill and Bedding in streams, which is attached within the Appendix.
- B. Comply with all provisions documented in the permit and correspondence with the US Army Corps of Engineers, including instructions pertaining to wetlands and timber in the project area – See information within the Appendix.
- C. Comply with instructions associated with the KYTC Encroachment Permit, previously obtained for the project. Permit copy is attached within the Appendix.
- D. If applicable, post all required bonds and/or insurance certificates with the Muhlenberg County Judge Executive before work begins on any county road. Contact MCJE at 270-338-2520.

2.4 Notices

The Contractor shall provide all required notices, including notices to utility owners of intent to excavate in the vicinity of their utilities, notices to property owners of intent to enter their property for construction purposes, notices regarding the interruption of any utility service, as well as other notices required by the plans and contract documents.

2.5 Laws

Contractor shall fully comply with all applicable laws, ordinances, rules, regulations, orders and other legal requirements, and shall bear the cost of such compliance.

2.6 Character of Workmen

Contractor shall employ workman and foremen with sufficient knowledge of and experience in the type of work proposed to assure satisfactory performance. Workman shall maintain a professional demeanor and appearance at all times on the project. Any workman on the project who performs work in an

incompetent manner, or acts in a disorderly or intemperate manner shall be removed from the project, and may not be employed on any portion of the project unless approved by the Owner.

2.7 Notice of Discrepancies

If discrepancies or ambiguities are found in the plans, specifications, contract documents or in any communication to the contractor, the contractor shall immediately notify the Engineer in writing. Do not proceed with the affected work until clarification is received.

2.8 Inspection

Provide at all times, access to the work for inspection by representatives of the Owner, the Engineer, and regulatory authorities having jurisdiction over the project.

3.0 CONTRACTOR'S USE OF PREMISES

Muhlenberg County is the site of all work on this Project.

- a. **RIGHTS-OF-WAY AND EASEMENTS:** The owner has legal authority to construct these facilities on property owned by the Owner, within easements on private property, and on existing public rights-of-way and will provide any other required permanent and construction easements for the pipeline. Access to the site of the work is the responsibility of the Contractor. Contractor shall confine his operations to right-of-ways, easements and property obtained by the Owner for construction of the project, or to areas secured by the Contractor for his use. Contractor shall take precautions to minimize disruption to existing properties.
- b. **LOCATION OF TEMPORARY FACILITIES:** Contractor's Field offices, Sub-Contractors' Field Offices, Material Storage Buildings, Material and Equipment Storage Yards, and parking areas for all project workers shall be provided by the Contractor, and located in areas approved by the Engineer. Stored materials, regardless of their location shall be protected by the Contractor from damage, theft or degradation at all times.
- c. **DAMAGE TO EXISTING PROPERTY:** The Contractor will be held responsible for any damage to existing structures, work, materials, or equipment because of his operations and shall repair or replace any damaged structures, work, materials, or equipment to the satisfaction of, and at no additional cost to, the Owner. Stored materials, regardless of their location shall be protected by the Contractor from damage, theft or degradation at all times.

The Contractor shall protect all existing structures and property from damage and shall provide bracing, shoring, or other work necessary for such protection.

4.0 EXISTING FACILITIES

4.1 Existing Utilities

The existing water distribution system will be in continuous operation during the construction of the Project. Contractor shall avoid disturbing existing water facilities, and any other utilities or structures encountered in the work, except as necessary for construction operations. Contractor shall give at least 48 hours prior notice to the Owner, or to any utility or other entity, of any necessary disruptions to service, or work affecting active lines. The Contractor shall be responsible for any necessary damage repair resulting from his installation work

The Contractor will be responsible for any manual locating of existing waterlines during the work as necessary, with only general locating guidance by the Owner. Contractor shall cooperate with Owners personnel in continuing operation of existing facilities.

4.2 Existing Connecting Streets, Roads and Highways

Any damage to a public facility and/or any access road into the project site by construction traffic generated by this project shall be the responsibility of the Contractor. All streets and roads shall be kept open to normal traffic and in a reasonable state of repair. The Contractor shall arrange with the appropriate authority to perform repairs himself or to have the said authority perform them. Any damages to public roads shall be considered a matter of the Contractor's or his suppliers public liability, and needed repairs shall be made as required by the public entity having authority over the road. Contractor shall provide adequate barricades, warning signs, flagmen, lights, etc., for construction operations hazardous to traffic and public safety.

5.0 PARTIAL OWNER OCCUPANCY

The Owner may, at his discretion, place into service any or all portions of the completed work prior to final completion of all work on the project. Placing a portion of the work in service before final completion does not relieve the contractor of his obligation to complete all work associated with that portion of the line (i.e. clean-up, surface restoration, etc.), to perform maintenance for the required period, or to provide warranty for that portion of the work. If a portion of the work that is placed in service prior to final project completion and acceptance is, in the opinion of the Engineer, complete and ready for acceptance, the Contractor may request that the warranty period for that portion of the work begin at the time it is placed in service, providing that such request is made in writing within seven days of the date of being placed in service. If the request is not made within the required time, the warranty period for that portion of the work will begin upon final acceptance of the Project.

6.0 TEMPORARY FACILITIES

- a. **CONTRACTOR'S OFFICE AT SITE OF WORK:** Contractor will not be required to provide temporary office facilities, but may do so if desired.
- b. **PARKING:** The Contractor shall provide and maintain suitable parking areas for the use of all construction workers and others performing work or furnishing services in connection with this Contract, as required to avoid any need for such personnel to park personal vehicles in locations where they may interfere with public traffic, Owner's operations, or construction activities. Securing the use of property for parking areas as necessary for the Contractor's operations shall be the full responsibility of the Contractor.
- c. **SANITARY FACILITIES:** The Contractor shall provide and maintain sanitary facilities for the use of his employees or any other persons on the job site, as may be required to comply with the regulations of state and local departments of health.
- d. The Contractor shall prepare and install one project sign as shown herein, shall maintain the sign in good repair for the project duration, and shall remove and dispose of the sign upon completion of the work.

7.0 TEMPORARY UTILITIES & SERVICES

- a. **WATER:** Water for any purpose will be paid for by the Contractor.
- b. **POWER:** Power for lighting, temporary office facilities, operation of the Contractor's plant or equipment, or for any other use by the Contractor shall be provided by the Contractor at his sole cost and expense. The contractor will be responsible for all necessary arrangements with the utility company.
- c. **HEAT:** All heat necessary for the protection or completion of the work, operation of the Contractor's plant or equipment, or for any other use by the Contractor shall be provided by the Contractor at his sole cost and expense.
- d. **TELEPHONE SERVICE:** The Contractor shall make all necessary arrangements with the telephone utility, and pay all charges therefore, for telephones in his offices at the site, if desired.

- e. SANITARY SEWER: The Contractor may make use of portable toilet facilities at his sole cost and expense.

8.0 WORKING HOURS

The Contractor may work on this project during the daylight hours, Monday through Friday, except legal holidays, when weather conditions permit. If the Contractor wishes to work at other times, he may do so if approved by the Engineer and if the request to do so is made at least 48 hours in advance.

END OF SECTION 01-100

Partial Preview

WATER MAIN MEASUREMENT AND PAYMENT

1.0 GENERAL

The Contractor shall furnish all labor, tools, equipment and materials to construct the proposed improvements complete as shown on the plans and described in these Specifications. The work shall be measured for payment in accordance with applicable provisions of these Specifications and payment shall be made on the basis of the unit prices or lump sum prices bid. The sum of the payments for eligible pay items contained in the proposal form shall be the compensation to be paid for the completed project; provided however, that changes in the work covered by written change orders, properly executed, may result in additions or deductions from the contract price.

The Contractor's attention is called to the fact that although the pay items shown shall be the basis for establishing the contract price, the description of the pay items does not necessarily reflect the full extent of work to be performed. The cost of the incidental work such as clearing and grubbing, trenching, backfilling, testing, etc., which is necessary but which is not specifically listed as one of the pay items, shall be included in the prices bid for the pay items to which the incidental work is most closely related.

2.0 WATER MAINS

- A. Measurement - Water mains shall be measured for payment by horizontal measurements or station distances along the centerline of the pipe to the nearest 1 foot. Water main size shall be based on nominal pipe diameter as shown on the Plans.
- B. Payment - Water mains shall be paid for on the basis of the respective unit prices bid per linear foot for pipe of the various sizes. Partial payments for water line installations shall be based upon the following percentages:

<u>Status</u>	<u>Maximum Percentage of Bid Price</u>
Line installed and backfilled only	70%
Line installed, backfilled, debris rock removed, & rough clean-up completed	80%
Line installed, backfilled, debris removed, rough clean-up, & successfully tested	90%
Line installed, backfilled, successfully tested & final surface restoration completed	100%

The foregoing partial payments will be subject to retainage.

Payment for furnishing and installing the water mains shall constitute compensation in full for furnishing all labor, tools, equipment and materials and installing the water mains complete, including incidental work such as location and protection of existing utilities, clearing, excavation (including rock), dewatering trenches, bedding with crushed stone in accordance with Specifications, fittings, thrust blocks, driveway and private road crossings and bores (including surface and pavement restoration), tracer wire (where required) backfilling, disposal of surplus excavated material, the removal of existing timber, structures and piping to be relocated or abandoned; also sheeting, diking, well pointing, bailing, dewatering; the furnishing, placing and removal of bulkheads, and restoration of any utilities, parkways, trees, turf, shrubbery, culverts, fences, and other surface features, and testing.

Backfill shall be in accordance with Section 02-300, and the cost thereof shall be included in the appropriate bid price. Where the water line is to be installed under roadways, railroads, creeks, or other special crossings for which a specific pay item is provided, payment based on the measured quantity and unit cost of the work shall be made in addition to the base unit cost for the designation of pipe provided as compensation for the additional work associated with the installation.

3.0 FINAL CLEANUP OF WATER MAINS (All sizes)

- A. Measurement – Final Cleanup of Water mains shall be measured for payment by horizontal measurements or station distances along the centerline of the pipe to the nearest 1 foot actually installed in accordance with the contract drawings and specifications.
- B. Payment – Final Cleanup of Water mains shall be paid for on the basis of the respective unit price bid per linear foot, for all pipe size, in accordance with the contract drawings and specifications. **Note: All Bidders shall include the specified unit price (See the Bid Form) as a minimum, for Final Cleanup.**

Payment for final cleanup of installed water mains shall constitute compensation in full for furnishing all labor, tools, equipment and materials for complete land restoration from the water main installation. Specific work items for the following areas shall be included for the payment:

- i. Residential Yards: The disturbed water main areas shall be free of all rocks, and the area shall be fine graded and thickly sown in accordance with Specification 02-300, Section 5.2. If warranted, new top soil shall be placed to cover poor, rocky soil and promote the healthy re-growth of grass in the affected portions of the yard. Additionally, if the Contractor hauls off and disposes a load of waste material (i.e. rock) from a particular yard, the Owner reserves the right to request the Contractor haul in and replace the area with an equal amount of suitable, topsoil material at no additional cost. Prior to final seeding, all areas shall be leveled and trench settlement shall be sufficiently backfilled to bring the areas back to their original grade. Final Seeding and Grading to affected areas shall only be completed between September 1 and April 30. Upon completion of the final cleanup, the Contractor shall obtain and supply the Owner with a handwritten acceptance notice from each affected landowner (Sample included in the Appendix). A landowner's acceptance does not supersede the Owner's acceptance, and the Owner reserves the right to request that leftover debris be thoroughly removed from the utility easement or hauled to the landowner's desired location on the respective parcel.
- ii. Row-Crop Fields: The disturbed water main areas shall be free of all rocks. All areas shall be leveled and trench settlement shall be sufficiently backfilled to bring the areas back to their original grade. Additionally, if the Contractor hauls off and disposes a load of waste material (i.e. rock) from a particular location, the Owner reserves the right to request the Contractor haul in and replace the area with an equal amount of suitable, topsoil material at no additional cost. Upon completion of the final cleanup, the Contractor shall provide evidence of crop damage restitution with each affected landowner, and the Contractor shall obtain and supply the Owner with a signed acceptance notice from each affected landowner (Sample included in the Appendix).
- iii. Pasture Fields: The disturbed water main areas shall be free of all rocks, and the area shall be graded and seeded sown in accordance with Specification 02-300, Section 5.2. Additionally, if the Contractor hauls off and disposes a load of waste material (i.e. rock) from a particular field, the Owner reserves the right to request the Contractor haul in and replace the area with an equal amount of suitable, topsoil material at no additional cost. Prior to final seeding, all areas shall be leveled and trench settlement shall be sufficiently backfilled to bring the areas back to their original grade. Final Seeding and Grading to affected areas shall only be completed between September 1 and April 30. Upon completion of the final cleanup, the Contractor shall obtain and supply the Owner with a handwritten acceptance notice from each affected landowner (Sample included in the Appendix). A landowner's acceptance does not supersede the Owner's acceptance, and the Owner reserves the right to request that leftover debris be thoroughly removed from the utility easement or hauled to the landowner's desired location on the respective parcel.

4.0 GATE VALVE AND BOX

- A. Measurement - Gate valves and boxes shall be measured by count of each size actually installed in accordance with the contract drawings and specifications in the completed system.

- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include the valve, valve box, concrete ring, and valve marker along with all related supplies and materials required for a complete installation in accordance with the contract drawings and specifications.

5.0 STEEL CASED ROAD BORE (if necessary)

- A. Measurement - Steel cased road bore shall be measured to the nearest 1 linear foot of bore as shown on the Contact Drawings for each size of casing and carrier pipe installed in accordance with the contract drawings and specifications.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include the steel casing pipe (excluding the PVC carrier pipe), excavation, installation and backfill of the pipes, all required materials, supplies and equipment for a complete installation as well as all associated pavement and/or surface repair required for a complete installation. Payment shall also include adhering to any special provisions, including bonding requirements, specifically instructed by Federal/State/County Highway Officials and the encroachment permit(s) obtained by the Owner.

6.0 OPEN CUT CASED ROAD CROSSING (if necessary)

- A. Measurement - Open cut cased road crossing shall be measured to the nearest 1 linear foot of crossing as shown on the Contact Drawings for each size casing and carrier pipe installed in accordance with the contract drawings and specifications.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include the steel casing pipe (excluding the carrier pipe), excavation, installation and backfill of the casing and water main, all required materials, supplies and equipment for a complete installation as well as all associated pavement and/or surface repair required for a complete installation. Payment shall also include adhering to any special provisions, including bonding requirements, specifically instructed by County/State Highway Officials and the encroachment permit(s) obtained by the Owner.

7.0 UNCASED DRIVEWAY BORE

- A. Measurement - Uncased driveway bores shall be measured to the nearest 1 linear foot of bore as shown on the Contact Drawings for each size of carrier pipe installed in accordance with the contract drawings and specifications.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include the installation of the carrier pipe, all required materials, supplies and equipment for a complete installation.

8.0 FLUSHING HYDRANT (All sizes)

- A. Measurement - Flushing hydrants shall be measured by count and size of hydrants actually installed in accordance with the contract drawings and specifications in the completed system.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include the hydrant as sized, gate valve as sized, valve box, piping, and all accessories referenced by the plans and specifications, including excavation, installation and backfill as required for a complete and working installation.

9.0 TAPPING SLEEVE AND VALVE

- A. Measurement - Tapping sleeves and valves shall be measured by count of each size actually installed in accordance with the contract drawings and specifications in the completed system.

- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include the tapping sleeve, tapping valve, valve box, valve marker, concrete ring and all accessories referenced by the plans and specifications, including excavation, installation and backfill as required for a complete and working installation.

10.0 NEW METER AND SERVICE (if applicable)

- A. Measurement – Meter sets and service shall be measured by count of each size of near side service or far side service actually installed in accordance with the contract drawings and specifications in the completed system. Near side service means that the meter is on the same side of the road as the water main. Far side service means that the meter is on the opposite side of the road as the water main, and that a service line road crossing, either open cut or bore, is required.
- B. Payment - Payment shall be at the unit bid prices for the measured quantity. Payment shall include tapping the main, new service tubing from the water main to the meter, new setter, radio read meter equal to the current product used by the Owner, new meter box and lid, and all materials, supplies and accessories required for a complete installation. Payment shall include all excavation and backfill to fill around the new sets or fill in the void from the old sets as required, for a complete and working installation. For far side meters, new service tubing shall be installed within a PVC casing pipe beneath the affected roadway as detailed in the contract drawings.

11.0 RECONNECTION OF EXISTING METER AND SERVICE

- A. Measurement – Reconnections of existing meter sets and service shall be measured by count of each size of near side service and of far side service actually installed in accordance with the contract drawings and specifications in the completed system. Near side service means that the meter is on the same side of the road as the water main. Far side service means that the meter is on opposite side of the road as the water main, and that a service line road crossing, either open cut or bore, is required along with PVC encasement.
- B. Payment - Payment shall be at the unit bid prices for the measured quantity. Payment shall include tapping the main, new service tubing from the tap to the existing meter setter, encasement for far side meter tubing, and all materials, supplies and accessories required for a complete installation and reconnection to the existing meter. For far side meters, new service tubing shall be installed within a PVC casing pipe beneath the affected roadway as detailed in the contract drawings.

Payment shall also include all associated ground surface restoration or paved surface restoration. Ground surface restoration performed in accordance with Specification 02-300, Section 5.2, plus cleanup, re seeding and straw as required for a complete installation. Pavement repairs and restoration performed in accordance with Detail 8, Sheet D1 as required for a complete installation

12.0 RELOCATION & RECONNECITON OF EXISTING METER SETS & SERVICE

- A. Measurement – Relocation of existing meter sets & service shall be measured by count of each size of service actually relocated and reconnected in accordance with the contract drawings and specifications in the completed system.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include locating and disconnecting the existing service line, shutting off the existing service line, if active, reinstalling the current meter, new individual PRV (if existing), new setter, new meter box with lid, all applicable fittings/ piping for reconnection to the customer's existing service line, and supplying all materials & accessories required for a complete installation and reconnection of the current meter and customer service line. Payment shall include reconnections to the customer's existing service line by a licensed plumber.

Payment shall also include all associated ground surface restoration or paved surface restoration. Ground surface restoration performed in accordance with Specification 02-300, Section 5.2, plus cleanup, reseeding and straw as required for a complete installation. Pavement repairs and restoration performed in accordance with Detail 8, Sheet D1 as required for a complete installation.

13.0 CONNECTION TO EXISTING WATER MAINS

- A. Measurement – Connections to existing water mains shall be measured by count and by size of connections actually installed in accordance with the contract drawings and specifications in the completed system.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include locating and excavating the existing line, shutting off the existing line, if active, removing any plugs, fittings, blowoffs, or other items as may be required to make the connection and delivering any removed items that are re-usable to the OWNER, if requested. Payment shall include providing fittings that may be required for the connection, backfilling, and other accessories and work necessary for a complete and working installation.

14.0 TERMINATE WATER LINE WITH A PLUG & CAP (All Line Sizes)

- A. Measurement – Plugging and Capping of water lines shall be measured by count and by size of connections actually installed in accordance with the contract drawings and specifications in the completed system.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include locating and excavating the water line, shutting off the water line, if active, installing any necessary plugs, fittings, or other items as may be required to make the cap. Payment shall include providing fittings that may be required, backfilling, concrete thrust blocking, and other accessories and work necessary for a complete and working installation.

15.0 AIR VALVES (if applicable)

- A. Measurement - Air release valves or combination air valves shall be measured by count of valves actually installed (including valve marker) in accordance with the contract drawings and specifications in the completed system.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include the air valve valve vault or box and all accessories referenced by the plans and specifications, and excavation, installation and backfill as required for a complete and working installation.

16.0 WATER LINE MARKERS (Isolated Location Requests)

- A. Measurement – Isolated pipeline markers shall be measured as the actual number installed.
- B. Payment – Payment will be made at the unit bid price for the measured quantity.

17.0 UNDERCUT AND REFILL (if necessary)

- A. Measurement - Where directed by the Engineer to undercut an excavation to avoid unstable soils, the undercut shall be measured as the actual volume of material removed from the excavation in excess of that which would have been otherwise required. Refill shall be measured as the actual volume of crushed stone or concrete refill placed in accordance with the Engineer's directions. Undercut or refill made without the direction or concurrence of the Engineer will not be measured for payment. Unclassified aggregate refill is not applicable for gravel driveway backfilling. No differentiation will be made between rock and soil undercutting.

- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include removing and disposing of undercut materials, placing and compacting any refill materials, and all other work as required for a complete and working installation.

18.0 REPLACEMENT/ADDITION OF NEW GATE VALVE ON EXISTING WATERLINE (If applicable)

- A. Measurement – Replacement or Addition of new gate valves on existing waterlines shall be measured by count and size of valve actually installed in accordance with the contract drawings and specifications in the completed system.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include the gate valve as sized, valve box, piping, valve marker, concrete ring and all accessories referenced by the plans and specifications, including excavation, installation and backfill as required for a complete and working installation. Payment shall also include locating and excavating the existing line, shutting off the existing line, if active, installing any temporary fittings or items as may be required to make the connection.

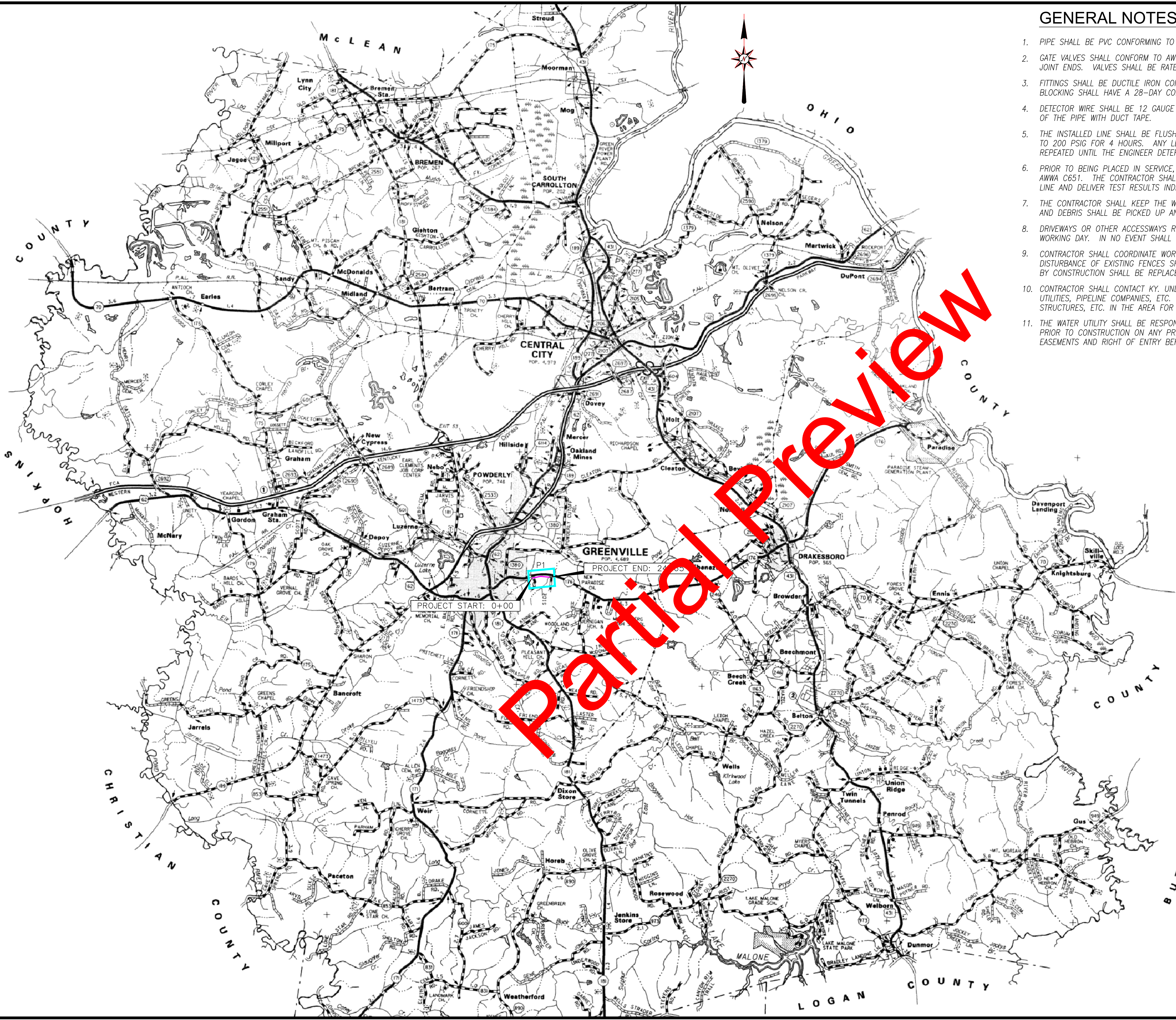
19.0 SHALLOW DITCH/CREEK CROSSING (All line Sizes)

- A. Measurement – Shallow Ditch/Creek Crossings shall be measured to the nearest 1-foot of crossing actually installed in accordance with the contract drawings and specifications in the completed system.
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall include PVC casing pipe where required by rock depth, any temporary measures taken to control water flow in the creek, excavation, installation of the water main and/or casing (as required), backfilling, concrete encasement where required, rip rap channel and bank lining, removal of temporary water control measures, accessories and related work referenced by the plans and specifications or otherwise required for a complete and working installation. Payment shall also include any erosion control measures justified by the construction as well as any measures needed to return sediment-free water back into the stream.

20.0 PAVEMENT REPLACEMENT & BACKFILL FOR WATER MAINS

- A. Measurement - The replacement of paved surfaces for water main trenches shall be measured for payment by horizontal measurements or station distances along the centerline of the water main to the nearest 1 foot (all depths).
- B. Payment - Payment shall be at the unit bid price for the measured quantity. Payment shall be total compensation for the mobilization, equipment, saw cutting, granular backfill or flowable concrete fill (as specified), furnishing and placing all base and surfacing materials, including rolling and finishing, for disposal of all surplus material, and for all labor, tools, equipment and incidentals necessary to complete the work, all in accordance with the plans and specifications plus in accordance with applicable standards of the Kentucky Transportation Cabinet.

END OF SECTION 02-500



GENERAL NOTES:

1. PIPE SHALL BE PVC CONFORMING TO ASTM D2241, NSF APPROVED, SDR 21, CLASS 200.
2. GATE VALVES SHALL CONFORM TO AWWA C509 AND SHALL HAVE MECHANICAL OR PUSH-ON JOINT ENDS. VALVES SHALL BE RATED FOR 200 PSI WORKING PRESSURE.
3. FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C110. CONCRETE FOR THRUST BLOCKING SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
4. DETECTOR WIRE SHALL BE 12 GAUGE SOLID COPPER INSULATED WIRE. ATTACH WIRE TO THE TOP OF THE PIPE WITH DUCT TAPE.
5. THE INSTALLED LINE SHALL BE FLUSHED THOROUGHLY, FILLED WITH WATER AND PRESSURIZED TO 200 PSIG FOR 4 HOURS. ANY LEAKAGE OBSERVED SHALL BE REPAIRED AND THE TEST REPEATED UNTIL THE ENGINEER DETERMINES THAT THE LINE IS ACCEPTABLE.
6. PRIOR TO BEING PLACED IN SERVICE, THE LINE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. THE CONTRACTOR SHALL PERFORM BACTERIOLOGICAL TESTING OF THE DISINFECTED LINE AND DELIVER TEST RESULTS INDICATING ACCEPTABLE DISINFECTION TO THE WATER UTILITY.
7. THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN AND ORDERLY AT ALL TIMES. ALL TRASH AND DEBRIS SHALL BE PICKED UP AND REMOVED FROM THE JOB SITE AT THE END OF EACH DAY.
8. DRIVEWAYS OR OTHER ACCESSWAYS REQUIRING EXCAVATION SHALL BE COMPLETED IN ONE WORKING DAY. IN NO EVENT SHALL SUCH AREAS REMAIN IMPASSIBLE OVERNIGHT.
9. CONTRACTOR SHALL COORDINATE WORK ON PRIVATE PROPERTY WITH THE PROPERTY OWNER, DISTURBANCE OF EXISTING FENCES SHALL BE HELD TO A MINIMUM, AND ANY FENCE DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL CONTACT KY. UNDERGROUND PROTECTION, INC. AT '811', AS WELL AS OTHER UTILITIES, PIPELINE COMPANIES, ETC. POTENTIALLY HAVING UNDERGROUND LINES, UTILITIES, STRUCTURES, ETC. IN THE AREA FOR VERIFICATION AND LOCATION PRIOR TO EXCAVATION.
11. THE WATER UTILITY SHALL BE RESPONSIBLE FOR OBTAINING AND RECORDING ALL EASEMENTS PRIOR TO CONSTRUCTION ON ANY PRIVATE PROPERTIES. CONTRACTOR SHALL VERIFY EASEMENTS AND RIGHT OF ENTRY BEFORE BEGINNING CONSTRUCTION.

REVISIONS	
No.	Date
1	04-22-24
2	CW
3	BY

MCGHEE ENGINEERING
MUHLBERG COUNTY WATER DISTRICT #1

202 Ewing Street
 Guthrie, KY 42334
 (270) 483-9885

P.O. Box 348
 Greenville, KY 42345
 (270) 338-1300

FIRM: McGhee Engineering, Inc.
 DES BY: CWW CHK BY:
 DWN BY: CWW APP BY:
 SCALE: AS SHOWN
 PROJECT DATE: 2024
 PRINTED:
 LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

MUHLBERG COUNTY WATER DISTRICT #1
Drakesboro Road Waterline Replacement
 Location Map



April 22, 2024
 CHRIS WILCOX
 21665
 Chris Wilcox, P.E.