COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

IN THE MATTER OF:

ELECTRONIC APPLICATION OF WESTERN	)	
PULASKI COUNTY WATER DISTRICT FOR THE	)	
ISSUANCE OF A CERTIFICATE OF PUBLIC	)	
CONVENIENCE AND NECESSITY TO	)	
CONSTRUCT A WATER IMPROVEMENTS	)	**Case No. 2020 - 00119**
PROJECT PURSUANT TO THE PROVISIONS	)	
OF KRS 278.020 AND 807 KAR 5:001	)	

** *** **** ******* **** *** **

APPLICATION

The Applicant, Western Pulaski County Water District (the "District"), files this Application pursuant to KRS 278.020, 807 KAR 5:001, and all other applicable laws and regulations, and requests that the Kentucky Public Service Commission (the "Commission") granting the District a Certificate of Public Convenience and Necessity ("CPCN") to construct a Phase 2 of a 2 Phase waterworks improvements project. In support of this Application, and in compliance with the rules and regulations of the Commission, the District states as follows:

1. The District was established in accordance with the provisions of Chapter 74 of the Kentucky Revised Statutes pursuant to an Order of the County Judge/Executive of Pulaski County, Kentucky which Order is on file in the County Court Order Books in the office of the Clerk of Pulaski County, Kentucky. The District is now, and has been since its inception, regulated by the Commission, and all records and proceedings of the Commission with reference to the District are

incorporated in this Application by reference. The District does not have any Articles of Incorporation due to the fact that it is a statutory entity.

2. The governing body of the District is its Board of Commissioners which is a public body corporate, with power to make contracts in furtherance of its lawful and proper purpose as provided for in KRS 74.070 and all applicable law and regulations.

3. The mailing address of the District is as follows:

Western Pulaski County Water District
c/o Ms. Tammy Vaught, Office Manager
2128 West Highway 80
Somerset, Kentucky 42503
Telephone: (606) 679-1569
Fax: (606) 677-9449
Email: tamora.vaught@gmail.com

4. A general description of the District's water system property, together with a statement of the original cost, is contained in the District's Annual Report for 2018 which is on file with the Commission. The Annual Report is incorporated herein by reference.

5. Pursuant to 807 KAR 5:001, Section 15 - Applications for Certificates of Public Convenience and Necessity, the District hereby responds as follows:

(i) Section 15(2)(a): Facts Relied Upon to Show Public Necessity: See **Exhibit "A"** attached hereto which includes the public necessity of the project and a project description.

(ii) Section 15(2)(b): Copies of Permits: The required permits for Phase 2 of the Project are attached hereto as **Exhibit "B"**.

(iii) Section 15(2)(c): Description of Proposed Location or Route. All construction will be confined to the northwestern and northern portions of the

District's system. The District is the only supplier of potable water in this area of Pulaski County, therefore, the improvements will not compete with any other public utilities.

(iv) Section 15(2)(d)(1) and (2): Maps to Suitable Scale and Plans and Specifications: two paper maps and one .pdf on electronic storage medium map showing the location of the proposed Project are included with this Application. Also the Plans and Specifications in .pdf format on electronic storage medium are being filed with this Application.

(v) Section 15(2)(e) Financing: This Project is Phase 2 of a 2 Phase project and is being financed with a portion of a $3,304,000 loan from Kentucky Infrastructure Authority ("KIA") Federally Assisted Drinking Water Revolving Loan Fund ("DWSRF Loan"). The DWSRF Loan was approved and a CPCN was issued for Phase 1 of the project pursuant to **PSC Case No. 2017-00063** which is incorporated herein by reference.

(vi) Section 15(2)(f) Estimated Cost of Operation: the estimated cost of operation of the system after the proposed Project is placed in service (Cash Flow Projections) is attached hereto as **Exhibit "C"**.

6. A certified copy of the bid tabulations for Contract 2 (Phase 2) is attached hereto as **Exhibit "D"**. The Final Project Budget is attached hereto as **Exhibit "E"**.

7. Pursuant to paragraph #10 of the April 6, 2017 Order in PSC Case No. 2017-00063, attached hereto as **Exhibit "F"** in the District's "best guess" for unaccounted-for water loss reduction.

WHEREFORE, the District respectfully requests that the Commission issue a certificate of public convenience and necessity permitting the Applicant to construct Phase 2 of the water system improvements project.

Western Pulaski County Water District

By _____

Don Calder, Chairman
2128 West Highway 80
Somerset, Kentucky 42503
Telephone: (606) 679-1569
Fax: (606) 677-9449
Email: tamora.vaught@gmail.com

Rubin & Hays

By _____

W. Randall Jones
Kentucky Home Trust Building
450 South Third Street
Louisville, Kentucky 40202
Phone: (502) 569-7525
Fax: (502) 569-7555
Counsel for Western Pulaski County Water District
wrjones@rubinhays.com

STATE OF KENTUCKY)
) SS
COUNTY OF PULASKI)

The affiant, Don Calder, being first duly sworn, states: That he is the Chairman of the Western Pulaski County Water District, the Applicant in this case; that he has read the foregoing Application and has noted the contents thereof; that the same are true of his own knowledge and belief, except as to matters which are herein stated to be based on information or belief, and that these matters, believes to be true and correct.

IN TESTIMONY WHEREOF, witness the signature of the undersigned on the 13th day of April, 2020.

Don Calder

Don Calder, Chairman

SUBSCRIBED, SWORN TO AND ACKNOWLEDGED before me by Don Calder, Chairman of the Western Pulaski County Water District, on this the 13th day of April, 2020.

My Commission expires: Dec. 27, 2021.

Tamara C. Vaught

NOTARY PUBLIC

EXHIBIT A

Public Necessity and Project Description

STATEMENT OF PUBLIC NECESSITY OF PROJECT

WESTERN PULASKI COUNTY WATER DISTRICT
WATER SYSTEM IMPROVEMENTS & REPLACEMENTS:
CONTRACT 2 – KY HIGHWAY 914 BYPASS TRANSMISSION MAIN

The project is Phase 2 of a $3,304,000 loan from a KIA DWSRF Loan. The project entails the installation of 7,400 LF of 16-inch ductile iron water transmission main, 7,600 LF of 12-inch PVC water transmission main, and one (1) water booster pump station along the right-of-way of Kentucky Highway 914 Bypass (Somerset Bypass).

This project will benefit the northwestern and northern portions of the District's water system. The majority of the beneficiaries are residential with a moderate number of commercial establishments. This work is being done in order to maintain the water supply and demand that serves the northwestern and western portions of the District's water system and it is not anticipated that major developments will directly benefit from the project. The new water transmission main and booster pump station will transport water around the Kentucky Highway 914 Bypass which will provide source water from the southern portion of the County to the northwestern and western portions of the County. The transmission main will have a connection to the City of Somerset from which the Western Pulaski County Water District currently has a purchase water agreement. The City of Somerset connection is the closest point to the main source of potable water. Therefore, the transmission main and booster pump station will improve to serve a community in the District's system that is experiencing growth and requiring a water demand that the District is currently struggling to keep up with during peak times of the year.

PROJECT DESCRIPTION

WESTERN PULASKI COUNTY WATER DISTRICT
WATER SYSTEM IMPROVEMENTS & REPLACEMENTS:
CONTRACT 2 – KY HIGHWAY 914 BYPASS TRANSMISSION MAIN

The Western Pulaski County Water District is currently pursuing improvements to its water system within Pulaski County. This project is Contract 2 of a two-phase project that is being funded by the KIA Kentucky State Revolving Fund F (SRF), DWSRF Loan Number F16-003. The project entails the installation of 7,400 LF of 16-inch ductile iron water transmission main, 7,600 LF of 12-inch PVC water transmission main, and one (1) water booster pump station along the right-of-way of Kentucky Highway 914 Bypass (Somerset Bypass).

The total construction cost as bid is $1,598,480.00, with a final project budget of $2,166,335.11. The project is funded through a KIA State Revolving Fund (Fund F) Loan in the amount of $3,304,000.

EXHIBIT B

Required Permits

Distribution-Major Construction

Western Pulaski Co Water District

Facility Requirements

Activity ID No.:APE20160003

GACT0000000096 (Water Syst Improvements & Replacements-Contract 2) 21,700 feet of 12-inch PVC; 10,950 feet of 6-inch PVC Waterlines; a Booster Pump Station with 3 pumps at 1,000 GPM with 151 feet TDH and installation of two new Pressure Reducing Station and 100 Radio read meter system:

Narrative Requirements:

Condition No.	Condition
T-1	Construction of this project shall not result in the water system's inability to supply consistent water service in compliance with 401 KAR 8:010 through 8:600. [401 KAR 8:100 Section 5]
T-2	The public water system shall not implement a change to the approved plans without the prior written approval of the cabinet. [401 KAR 8:100 Section 4(3)]
T-3	A proposed change to the approved plans affecting sanitary features of design shall be submitted to the cabinet for approval in accordance with Section 2 of this administrative regulation. [401 KAR 8:100 Section 4(2)]
T-4	During construction, a set of approved plans and specifications shall be available at the job site. Construction shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 3(1)]
T-5	Unless construction begins within two (2) years from the date of approval of the final plans and specifications, the approval shall expire. [401 KAR 8:100 Section 3(3)]
T-6	Upon completion of construction, a professional engineer shall certify in writing that the project has been completed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 4(1)]
T-7	The system shall be designed to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow. [Recommended Standards for Water Works 8.2.1, Drinking Water General Design Criteria IV.1.a]
T-8	Water lines should be hydraulically capable of a flow velocity of 2.5 ft/s while maintaining a pressure of at least 20 psi. [Drinking Water General Design Criteria IV.1.b]
T-9	The normal working pressure in the distribution system at the service connection shall not be less than 30 psi under peak demand flow conditions. Peak demand is defined as the maximum customer water usage rate, expressed in gallons per minute (gpm), in the pressure zone of interest during a 24 hour (diurnal) time period. [Drinking Water General Design Criteria IV.1.d]
T-10	When static pressure exceeds 150 psi, pressure reducing devices shall be provided on mains or as part of the meter setting on individual service lines in the distribution system. [Drinking Water General Design Criteria IV.1.c]

GACT0000000096 (Water Syst Improvements & Replacements-Contract 2) 21,700 feet of 12-inch PVC; 10,950 feet of 6-inch PVC Waterlines; a Booster Pump Station with 3 pumps at 1,000 GPM with 151 feet TDH and installation of two new Pressure Reducing Station and 100 Radio read meter system:

Narrative Requirements:

Condition No.	Condition
T-11	The minimum size of water main in the distribution system where fire protection is not to be provided should be a minimum of three (3) inch diameter. Any departure from minimum requirements shall be justified by hydraulic analysis and future water use, and can be considered only in special circumstances. [Recommended Standards for Water Works 8.2.2, Drinking Water General Design Criteria IV.2.b]
T-12	Water mains not designed to carry fire-flows shall not have fire hydrants connected to them. [Recommended Standards for Water Works 8.4.1.b]
T-13	Flushing devices should be sized to provide flows which will give a velocity of at least 2.5 feet per second in the water main being flushed. [Recommended Standards for Water Works 8.2.4.b, Recommended Standards for Water Works 8.4.1.b]
T-14	No flushing device shall be directly connected to any sewer. [Recommended Standards for Water Works 8.2.4.b, Recommended Standards for Water Works 8.4.1.b]
T-15	Pipe shall be constructed to a depth providing a minimum cover of 30 inches to top of pipe. [Drinking Water General Design Criteria IV.3.a]
T-16	Water mains shall be covered with sufficient earth or other insulation to prevent freezing. [Recommended Standards for Water Works 8.7]
T-17	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a depth of at least six inches below the bottom of the pipe. [Recommended Standards for Water Works 8.7]
T-18	Water line installation shall incorporate the provisions of the AWWA standards and/or manufacturer's recommended installation procedures. [Recommended Standards for Water Works 8.7]
T-19	All materials used for the rehabilitation of water mains shall meet ANSI/NSF standards. [Recommended Standards for Water Works 8.1]
T-20	Packing and jointing materials used in the joints of pipe shall meet the standards of AWWA and the reviewing authority. [Recommended Standards for Water Works 8.1]
T-21	All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.7]

GACT0000000096 (Water Syst Improvements & Replacements-Contract 2) 21,700 feet of 12-inch PVC; 10,950 feet of 6-inch PVC Waterlines; a Booster Pump Station with 3 pumps at 1,000 GPM with 151 feet TDH and installation of two new Pressure Reducing Station and 100 Radio read meter system:

Narrative Requirements:

Condition No.	Condition
T-22	All materials including pipe, fittings, valves and fire hydrants shall conform to the latest standards issued by the ASTM, AWWA and ANSI/NSF, where such standards exist, and be acceptable to the Division of Water. [Recommended Standards for Water Works 8.1]
T-23	Water mains which have been used previously for conveying potable water may be reused provided they meet the above standards and have been restored practically to their original condition. [Recommended Standards for Water Works 8.1]
T-24	Manufacturer approved transition joints shall be used between dissimilar piping materials. [Recommended Standards for Water Works 8.1]
T-25	The minimum size of water main which provides for fire protection and serving fire hydrants shall be six?inch diameter. [Recommended Standards for Water Works 8.2, Drinking Water General Design Criteria IV.2.a]
T-26	Pipes and pipe fittings containing more than 8% lead shall not be used. All products shall comply with ANSI/NSF standards. [Recommended Standards for Water Works 8.1]
T-27	Gaskets containing lead shall not be used. Repairs to lead?joint pipe shall be made using alternative methods. [Recommended Standards for Water Works 8.1]
T-28	Pipe materials shall be selected to protect against both internal and external pipe corrosion. [Recommended Standards for Water Works 8.1]
T-29	Dead end mains shall be equipped with a means to provide adequate flushing. [Recommended Standards for Water Works 8.2]
T-30	The hydrant lead shall be a minimum of six inches in diameter. Auxiliary valves shall be installed on all hydrant leads. [Recommended Standards for Water Works 8.4.3]
T-31	A sufficient number of valves shall be provided on water mains to minimize inconvenience and sanitary hazards during repairs. [Recommended Standards for Water Works 8.3]
T-32	Wherever possible, chambers, pits or manholes containing valves, blow?offs, meters, or other such appurtenances to a distribution system, shall not be located in areas subject to flooding or in areas of high groundwater. Such chambers or pits should drain to the ground surface, or to absorption pits underground. The chambers, pits and manholes shall not connect directly to any storm drain or sanitary sewer. Blow?offs shall not connect directly to any storm drain or sanitary sewer. [Recommended Standards for Water Works 8.6]

GACT0000000096 (Water Syst Improvements & Replacements-Contract 2) 21,700 feet of 12-inch PVC; 10,950 feet of 6-inch PVC Waterlines; a Booster Pump Station with 3 pumps at 1,000 GPM with 151 feet TDH and installation of two new Pressure Reducing Station and 100 Radio read meter system:

Narrative Requirements:

Condition No.	Condition
T-33	At high points in water mains where air can accumulate provisions shall be made to remove the air by means of air relief valves. [Recommended Standards for Water Works 8.5.1]
T-34	Automatic air relief valves shall not be used in situations where flooding of the manhole or chamber may occur. [Recommended Standards for Water Works 8.5.1]
T-35	The open end of an air relief pipe from automatic valves shall be extended to at least one foot above grade and provided with a screened, downward?facing elbow. [Recommended Standards for Water Works 8.5.2.c]
T-36	Discharge piping from air relief valves shall not connect directly to any storm drain, storm sewer, or sanitary sewer. [Recommended Standards for Water Works 8.5.2.d]
T-37	Water pipe shall be constructed with a lateral separation of 10 feet or more from any gravity sanitary or combined sewer measured edge to edge where practical. If not practical a variance may be requested to allow the water pipe to be installed closer to the gravity sanitary or combined sewer provided the water pipe is laid in a separate trench or undisturbed shelf located on one side of the sewer with the bottom of the pipe at least 18 inches above the top of the gravity sanitary or combined sewer pipe. [Drinking Water General Design Criteria IV.3.b]
T-38	Water lines crossing sanitary, combined or storm sewers shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sanitary, combined or storm sewer with preference to the water main located above the sanitary, combined or storm sewer. [Drinking Water General Design Criteria IV.3.c]
T-39	At crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible. [Recommended Standards for Water Works 8.8.3.b]
T-40	There shall be no connection between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system. [Recommended Standards for Water Works 8.10.1]
T-41	Water utilities shall have a cross connection program conforming to 401 KAR 8. [Recommended Standards for Water Works 8.10.1]
T-42	Installed pipe shall be pressure tested and leakage tested in accordance with the appropriate AWWA Standards. [Recommended Standards for Water Works 8.7.6]

GACT0000000096 (Water Syst Improvements & Replacements-Contract 2) 21,700 feet of 12-inch PVC; 10,950 feet of 6-inch PVC Waterlines; a Booster Pump Station with 3 pumps at 1,000 GPM with 151 feet TDH and installation of two new Pressure Reducing Station and 100 Radio read meter system:

Narrative Requirements:

Condition No.	Condition
T-43	New, cleaned and repaired water mains shall be disinfected in accordance with AWWA Standard C651. The specifications shall include detailed procedures for the adequate flushing, disinfection, and microbiological testing of all water mains. In an emergency or unusual situation, the disinfection procedure shall be discussed with the Division of Water. [Recommended Standards for Water Works 8.7.7]
T-44	A minimum cover of five feet shall be provided over pipe crossing underwater. [Recommended Standards for Water Works 8.9.2]
T-45	Valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair; the valves shall be easily accessible, and not subject to flooding for pipes crossing underwater. [Recommended Standards for Water Works 8.9.2.b]
T-46	Permanent taps or other provisions to allow insertion of a small meter to determine leakage and obtain water samples on each side of the valve closest to the supply source for pipes crossing. [Recommended Standards for Water Works 8.9.2.c]
T-47	Pumping facilities shall be elevated to a minimum of three feet above the 100?year flood elevation, or three feet above the highest recorded flood elevation, whichever is higher, or protected to such elevations, [Recommended Standards for Water Works 6.1.1.a]
T-48	Pumping facilities shall be readily accessible at all times. [Recommended Standards for Water Works 6.1.1.b]
T-49	Pumping facilities shall be graded around the station so as to lead surface drainage away from the station. [Recommended Standards for Water Works 6.1.1.c]
T-50	Pumping facilities shall be protected to prevent vandalism and entrance by animals or unauthorized persons. [Recommended Standards for Water Works 6.1.1.d]
T-51	Raw and finished pump stations shall have adequate space for the installation of additional units if needed, and for the safe servicing of all equipment. [Recommended Standards for Water Works 6.2.a]
T-52	Raw and finished pump stations shall have floors that slope to a suitable drain. [Recommended Standards for Water Works 6.2.e]
T-53	Raw and finished pump stations shall provide a suitable outlet for drainage from pump glands without discharging onto the floor. [Recommended Standards for Water Works 6.2.f]

GACT0000000096 (Water Syst Improvements & Replacements-Contract 2) 21,700 feet of 12-inch PVC; 10,950 feet of 6-inch PVC Waterlines; a Booster Pump Station with 3 pumps at 1,000 GPM with 151 feet TDH and installation of two new Pressure Reducing Station and 100 Radio read meter system:

Narrative Requirements:

Condition No.	Condition
T-54	At least two pumping units shall be provided. With any pump out of service, the remaining pump or pumps shall be capable of providing the maximum pumping demand of the system. [Recommended Standards for Water Works 6.3]
T-55	Pumps shall have ample capacity to supply the peak demand against the required distribution system pressure without dangerous overloading, [Recommended Standards for Water Works 6.3.a]
T-56	Pumps shall be driven by prime movers able to meet the maximum horsepower condition of the pumps. [Recommended Standards for Water Works 6.3.b]
T-57	Pumps shall be provided with readily available spare parts and tools. [Recommended Standards for Water Works 6.3.c]
T-58	Pump stations shall have indicating, totalizing, and recording metering of the total water pumped. [Recommended Standards for Water Works 6.6.3]
T-59	Each pump shall have a standard pressure gauge on its discharge line. [Recommended Standards for Water Works 6.6.3.a]
T-60	Each pump shall have a compound gauge on its suction line. [Recommended Standards for Water Works 6.6.3.b]
T-61	Where two or more pumps are installed, provision shall be made for alternation. [Recommended Standards for Water Works 6.6.5]
T-62	Provisions shall be made to prevent energizing the pump motor in the event of a backspin cycle. [Recommended Standards for Water Works 6.6.5]
T-63	Electrical controls shall be located above grade. [Recommended Standards for Water Works 6.6.5]
T-64	Equipment shall be provided or other arrangements made to prevent surge pressures from activating controls which switch on pumps or activate other equipment outside the normal design cycle of operation. [Recommended Standards for Water Works 6.6.5]
T-65	Pump stations shall have a power supply provided from at least two independent sources or a standby or an auxiliary source. [Recommended Standards for Water Works 6.6.6]

GACT0000000096 (Water Syst Improvements & Replacements-Contract 2) 21,700 feet of 12-inch PVC; 10,950 feet of 6-inch PVC Waterlines; a Booster Pump Station with 3 pumps at 1,000 GPM with 151 feet TDH and installation of two new Pressure Reducing Station and 100 Radio read meter system:

Narrative Requirements:

Condition No.	Condition
T-66	If standby power is provided by onsite generators or engines, the fuel storage and fuel line must be designed to protect the water supply from contamination. [Recommended Standards for Water Works 6.6.6]
T-67	All lubricants which come into contact with the potable water shall be certified for conformance to ANSI/NSF Standard 60. [Recommended Standards for Water Works 6.6.8]
T-68	Booster pumps stations shall have a bypass available. [Recommended Standards for Water Works 6.4.e]
T-69	Each booster pumping station shall contain not less than two pumps with capacities such that peak demand can be satisfied with the largest pump out of service. [Recommended Standards for Water Works 6.4.1]
T-70	All booster pumping stations shall be fitted with a flow rate indicating and totalizer meter. [Recommended Standards for Water Works 6.4.2]
T-71	Inline booster pumps shall be accessible for servicing and repairs. [Recommended Standards for Water Works 6.4.3]
T-72	Each pump must have an isolation valve on the intake and discharge side of the pump to permit satisfactory operation, maintenance and repair of the equipment. [Recommended Standards for Water Works 6.6.1]
T-73	Each pump shall have a positive?acting check valve on the discharge side between the pump and the shut?off valve. [Recommended Standards for Water Works 6.6.1]
T-74	Pump station piping shall be designed so that the friction losses will be minimized, not be subject to contamination, have watertight joints, be protected against surge or water hammer with suitable restraints when necessary, and be such that each pump has an individual suction line or the lines shall be manifolded that they will insure similar hydraulic and operating conditions. [Recommended Standards for Water Works 6.6.2]
T-75	Booster pumps taking suction from storage tanks shall be provided adequate net positive suction head. [Recommended Standards for Water Works 6.4.b]
T-76	Booster pumps shall controlled so that automatic shutoff or low pressure controllers maintain at least 20 psi in the suction line under all operating conditions. [Recommended Standards for Water Works 6.4.c]

GACT0000000096 (Water Syst Improvements & Replacements-Contract 2) 21,700 feet of 12-inch PVC; 10,950 feet of 6-inch PVC Waterlines; a Booster Pump Station with 3 pumps at 1,000 GPM with 151 feet TDH and installation of two new Pressure Reducing Station and 100 Radio read meter system:

Narrative Requirements:

Condition No.	Condition
T-77	Booster pumps taking suction from ground storage tanks shall be equipped with automatic shutoffs or low pressure controllers. [Recommended Standards for Water Works 6.4.c]
T-78	All automatic pump stations should be provided with automatic signaling apparatus which will report when the station is out of service. [Recommended Standards for Water Works 6.5]
T-79	All remote controlled stations shall be electrically operated and controlled and shall have signaling apparatus of proven performance. [Recommended Standards for Water Works 6.5]
T-80	Raw and finished pump stations shall have a floor elevation of at least six inches above finished grade. [Recommended Standards for Water Works 6.2.c]

MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET
Department for Environmental Protection

Aaron B. Keatley
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

November 3, 2016

Mr. Don Calder
Western Pulaski County Water District
1059 W KY 80
Somerset, KY 42503

RE: F16-003
Western Pulaski Co Water District--34092
Contract: 2, Water System Improvements & Replacements
Activity ID: FGL20160002

Dear Mr. Calder:

The Kentucky Division of Water (DOW) has reviewed for completeness and adequacy the construction plans and specifications submitted for the above referenced contract. The DOW approves these plans and specifications with respect to sanitary features of design in accordance with the requirements contained in the attached construction permit. These plans include construction of approximately 21,700 feet of 12-inch PVC waterline, 10,950 feet of 6-inch PVC waterline, a booster pump station with three pumps capable of 1,000 GPM at 151 feet TDH, installation of two new pressure reducing stations and 100 radio read meters. The approval conditions and a list of eligible/ineligible items are enclosed. Please note that ineligible items cannot be funded using State Revolving Fund (SRF) monies, and must be paid by other funding sources.

We are sending one (1) set of approved plans and specifications. An identical set should be made available at the project site at all times. If modifications are made to these plans and specifications before bidding, two (2) complete sets of as-bid plans and specifications must be submitted to the DOW for approval. A second DOW construction approval must be issued by separate correspondence before proceeding with advertising for bids. Any red line changes that were made by DOW personnel on the approved plans shall be incorporated into the bid set plans unless an alternative is approved.

You may now advertise for bids on the construction of this project. In addition to other notifications, this project must be advertised in the newspaper of the largest daily circulation in the project area.

You are cautioned not to advertise unless you have a proper wage decision. The Federal Davis-Bacon wage rates and Kentucky prevailing wage rates are applicable for this project. Please contact all other funding sources for their requirements pertaining to federal or state wage rates.

You are reminded that the construction contracts are subject to the equal employment opportunity requirements contained in Executive Order 11246. Equal employment opportunity affirmative action by the prime contractors and all subcontractors is mandated throughout the duration of the contract. Documentation of efforts to comply with Executive Order 11246, Equal Employment Opportunity is required to be kept by the borrower.

Review the attached Project Review and Cost Summary form for details of the information to be collected and retained in your files or to be submitted to DOW for review and approval. This form must be completed, signed by the recipient, and with the necessary information be then forwarded to the DOW. This signature will certify that all the information to be retained by the recipient has been secured and is available for review by the Division at the pre-construction conference. The required information must be approved by the DOW before executing any contracts.

Along with the Project Review and Cost Summary form, the following items must be submitted to the DOW for review and approval before executing any contracts:

- The bid advertisement
- Revised Project Budget
- Certified bid tabulation
- Documentation of compliance with DBE Good Faith Effort in accordance with 40 CFR 33.301

These items will be reviewed as a part of the Authority to Award process. The DOW will authorize you to award the contracts once these documents are approved

After the Notice to Proceed is signed, the DOW will need a copy of the executed contract documents, including plans and specifications.

Changes orders will require approval from the DOW before payment can be authorized from the State Revolving Fund. Submission of plans and specifications may be required for change order work.

Upon completion of the project, as-built drawings shall be provided to the DOW. As-builts shall be stamped, signed and dated by a professional engineer. A written certification stating that the project was constructed according to the approved plans shall be provided to the DOW by a professional engineer.

The construction permit included in this letter has been issued under the provisions of KRS Chapter 224 and the regulations promulgated pursuant thereto. Issuance of this approval does not relieve the applicant from the responsibility of obtaining any other approvals, permits or licenses required by this Cabinet and other state, federal and local agencies.

You are cautioned that the advertisement and award of this contract will be subject to the laws and regulations that govern the State Revolving Fund (SRF) and to the conditions of your loan

agreement. If we can be of further assistance, please call Mohammed Mohiuddin, Project Engineer at (502) 782-7020 for technical review questions and Cathy Arnett, SRF Project Administrator at 502-782-6878 for SRF funding questions.

Sincerely,

Terry Humphries, P.E.
Supervisor, Engineering Section
Water Infrastructure Branch
Division of Water

TH: MM

Enclosures

Eligible List, Ineligible List, Approval Conditions
Project Review and Cost Summary Form
1 set plans and specification

C: Monarch Engineering, Incl.
Kentucky Infrastructure Authority
Cabinet for Economic Development
Pulaski County Health Department
Division of Plumbing

F16-003
Western Pulaski County Water District

SRF ELIGIBLE ITEMS:

Contract No. 2: No ineligible items determined

SRF INELIGIBLE ITEMS:

Contract No. 2: No ineligible items determined

APPROVAL CONDITIONS:

1. Provide Clear Site Certificates
2. Complete and return the Project Review and Cost Summary Form.
3. Include the most recent version of the SRF Supplemental General Conditions (Feb 2016) in the as-bid specifications.

PROJECT REVIEW AND COST SUMMARY

This questionnaire/checklist is furnished as an administrative aid and is required for use in supplying information and documents, reporting minor changes, and project status. The information and documents should be submitted to DOW as soon as possible after bid opening.

DRINKING WATER SRF ☐ **CLEAN WATER SRF** ☐

SECTION 1.

1. Project Name _____ Project Number _____

2. Changes: Have there been any changes in the project since DOW's approval of the plans and specifications?

☐ Yes ☐ No Construction Drawings. If yes, submit revised drawings and addenda. **See Note***

☐ Yes ☐ No Specifications. If yes, submit addenda. **See Note***

☐ Yes ☐ No Site Changes. If so, new Clear Site Certificates are required prior to start of construction.

☐ Yes ☐ No Authorized Representative (Mayor, City Manager, etc.). If so, provide name and title.

***Note:** **Prior approval is required for changes in design, scope, type of treatment, size, capacity, time to complete the project, etc. Changes, which result in increase in the amount of a contract, must be procured in accordance with state and federal requirements, as applicable.**

SECTION 2.

Date Bids Opened: _____ **Date Bids Expire:** _____

1. The following items should be submitted to DOW after bid opening:

   a) Executed Project Review & Cost Summary Form (this form).
   b) Original bid advertisement or copy of advertisement with affidavit of publication.
   c) Revised Budget (copies attached, use appropriate form).
   d) Certified Bid Tabulations with engineer's seal.
   e) DBE Documentation (See Attachment No. 11 of the Supplemental General Conditions (SGC)):
      (1) Disadvantaged Business Enterprise Participation Policy from the successful low bidder with DBE certifications and executed subcontracts with DBEs or letters of intent signed by both parties; and documentation on the level of effort taken to obtain DBEs including copies of correspondence with DBE contractors,

requesting quotes and copies of any advertisements soliciting DBE contractors, copies of returned envelopes and certified mail receipts, telephone log, etc.

(2) Bidder's List Form from recipient and successful bidder.

(3) EPA Form 6100-3 from DBE subcontractors.

(4) EPA Form 6100-4 from successful bidder.

2. The following items must be submitted to DOW at the Pre-construction Meeting:

a) Executed Contract Documents (once contract is signed).

b) Notice of Award, Notice To Proceed, Bid Bond, Payment Bond, and Performance Bond (generally included in executed contract).

c) Technical Specification (generally included in executed contract).

d) Contractor's Certification Regarding Lobbying (See Attachment No. 11 in the SGC).

e) Contractor's Debarred Firm Certification (See Attachment No. 10 in the SGC).

3. A copy of the items identified in Section 2.1 and Section 2.2, above, and the following must be retained by the owner. This documentation is subject for review, by DOW, at the time of the pre-construction conference.

a) Name and qualifications of the proposed resident inspector(s).

b) Proposal of the successful bidder(s).

c) EEO documentation required by Executive Order 11246 as amended. Items 1 through 11 (See Attachment No. 7 in the SGC), is required for all contracts over $10,000 except supplier contracts. Supplier contracts require:

(1) Name, address, and telephone number.

(2) Materials to be supplied and dollar value.

For contracts below $10,000, the same information required for supplier contracts must be submitted.

d) Engineer's letter to the loan recipient recommending award of the contract. Letter must include a description of work, dollar amount, and name of the low bidder. If award is recommended to be made to other than the low bidder, a justification indicating why the low bidder is not responsive or responsible.

e) Contractor project construction schedule and payment schedule.

f) Applicable wage rate determination letter.

g) Tentative Award Resolution.

4. Comments: _____

_____

I hereby certify that all documentation outlined in Section 2.1, 2.2 and 2.3 will be retained in our project files and all documentation outlined in Section 2.1 has been submitted to DOW and all documentation outlined in Section 2.2 will be submitted to DOW during the Pre-construction meeting.

_____ _____

Signature of Authorized Representative Date

_____

Print Name and Title

SRF Project Cost Summary

Project Title: _____ **WRIS#:** _____

Project Budget: **Estimated** [ ] enter date **As Bid** [ ] enter date **Revised** [ ] enter dat

	Cost Classification	SRF KIA Loan	Funding Source 1	Funding Source 2	Funding Source 3	Funding Source 4	Funding Source 5	Local Funds	Unfunded Costs	Total
1	Administrative Expenses									
2	Legal Expenses									
3	Land, Appraisals, Easements									
4	Relocation Expenses & Payments									
5	Planning									
6	Engineering Fees – Design									
7	Engineering Fees – Construction									
8	Engineering Fees – Inspection									
9	Engineering Fees – Other									
10	Construction									
11	Equipment									
12	Miscellaneous									
13	Contingencies									
	Total									

	Funding Sources	Amount	Date Committed
1			
2			
3			
4			
5			
	Total		

	Local Funding Sources	Amount	Date Committed
1			
2			
3			
	Total		

Total Funding $ _____

Cost Categories	Funding Source	Total Cost
Treatment (DW)		
Transmission and Distribution (DW)		
Source (DW)		
Storage (DW)		
WWTP Secondary Portion (CW)		
WWTP Advanced Portion (CW)		
Inflow and Infiltration Correction (CW)		
Major Sewer Rehabilitation (CW)		
Collector Sewers (CW)		
Interceptor Sewers including Pump Station (CW)		
Combined Sewer Overflow Correction (CW)		
Purchase of Systems (DW and CW)		
Restructuring (DW and CW)		
Land Acquisition (DW and CW)		
	Total Costs	

Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Department of Highways, District 8 Office
1660 S. Highway 27
Somerset, KY 42502
(606) 677-4017

Greg Thomas
Secretary

Western Pulaski County Water District
2128 West HWY 80
Somerset, KY 42503

Subject: Pulaski County
KY 3261
RS 100-0080-14.07
Permit 08-2016-00206

Dear Sir:

The attached is your copy of the approved encroachment permit application. One copy is to be submitted to your contractor. This permit is to remain on the project until the permitted work is complete.

You are to shape and seed any disturbed areas on the State's right of way. All work and materials are to comply with the Department's Standard Specification for Road and Bridge Construction- 2012 Edition. Signs, barricades, lights, etc. if required, are to be installed in accordance with the Manual on Uniform Traffic Control Devices.

Please notify this office when permitted work begins. When work has been completed, the Notice of Completion of Encroachment Permit Work must be completed and returned so an inspection can be made by personnel from this office. If all work has been completed satisfactorily, your indemnity will then be released.

Yours truly,

Conley Moren, P.E.
TEBM, Engineering Support
District 8- Somerset

09/30/2016
Date

TW/cm

Kentucky Transportation Cabinet
Department of Highways
Division of Maintenance
Permits Branch

ENCROACHMENT PERMIT

KEPT No.: 08-2016-00206

Permittee: Western Pulaski Co Water District

Permit Type / Subtype: Utilities / Water

Work Completion Date: 12/1/2017

INDEMNITIES		
Type	**Amount Required**	**Tracking Number**
Performance Bond	$0.00	
Cash / Check	$0.00	
Self-Insured	$0.00	
Payment Bond	$0.00	
Liability Insurance	$0.00	

This permit has been: **APPROVED** [X] **DENIED** [ ]

Conley Moren	D8 Engineering Support - TEBM	9/30/2016
SIGNATURE	**TITLE**	**DATE**

The TC 99-1(B), including the application TC-99 1(A) and all related and accompanying documents and drawings make up the permit. It is not a permit unless both the TC 99-1(A) and TC 99-1(B) are both present.

LOCATION(S)			
Description	**County - Route**	**Latitude**	**Longitude**
	Pulaski - KY 3261	37.067713	-84.659111

Kentucky Transportation Cabinet
Department of Highways
Permits Branch

TC 99-1 (A)
1/2015

BUD
Before "U" Dig
CALL 811
For Buried Line/Cable Locations

APPLICATION FOR ENCROACHMENT PERMIT

Permittee Information			
Name	Western Pulaski County Water District		
Address	2128 West Highway 80		
City	Somerset		
State	KY	Zip	42503
Phone#	(606) 679-1569		
Contact	Joe McClendon		
Phone	(606) 679-1569	Cell	(606) 271-6256
Email	joe~mcclendon@hotmail.com		
Contact	Tammy Vaught		
Phone	(606) 679-1569	Cell	
Email	tvaughtwpcwd@windstream.net		

KYTC No. 08-2016-00206

Permit Information			
Address	Kentucky Highway 3261 (WTLO RD)		
City	Somerset		
State	KY	Zip	42503
County	Pulaski		
Route No.	KY 3261	Mile-Point	0.94 to 2.46
Longitude (X)	37* 05' 01.47" N		
Latitude (Y)	84* 39' 48.81" W		

Information below to be filled out by KYTC

☐ Air Right ☐ Entrance
☒ Utilities ☐ Other:

	☒ Left	☒ Right	☒ X-ing
Access:	☐ Full	☐ Partial	☒ by Permit

General Description of Work:

1) M.P. 0.60 to 1.76, Install 6" PVC SDR 21 water line on the right hand side of KY HWY 3261 (WTLO RD) for approximately 4,350 LF to replace existing 4" water line. 6" water line shall be installed behind the ditch line back slope.
2) M.P. 1.76 to 2.46, Install 6" PVC SDR 21 water line on the left hand side of KY HWY 3261 for approximately 3,800 LF to replace existing 4" water line. 6" water line shall be installed behind the ditch line back slope.
3) Crossings at M.P. 0.94, 1.76, 1.951, & 1.969; all with 40 LF of Jack & Bore for 6-inch PVC SDR 21 (carrier pipe) water line under KY HWY 3261 with 12-inch steel casing.
3) Crossing at M.P. 0.014 with 200 LF of Jack & Bore for 12" PVC SDR 21 (carrier pipe) water line under KY HWY 3261 with 16" steel casing. R.S.

THE UNDERSIGNED PERMITTEE(s) (being duly authorized representative(s) or owner(s)) DO AGREE TO ALL TERMS AND CONDITIONS ON THE TC 99-1 (A)

Ron Calder — 8/16/2016

Signature — Date

This is not a permit unless and until the permittee(s) receives an approved TC 99-1(B) from KYTC. This application shall become void if not approved by the cancellation date. The cancellation date shall be one year from the date the permittee submits their application.

APPLICATION FOR ENCROACHMENT PERMIT

TERMS AND CONDITIONS

1. The permit, including this application and all related and accompanying documents and drawings making up the permit, remains in effect and is binding upon the Applicant/Permittee, its successors and assigns, as long as the encroachment(s) exists and also until the permittee is finally relieved by the Department of Highways from all its obligations.

2. Applicant shall meet all requirements of the Clean Water Act if the project will disturb one acre or more, the applicant shall obtain a KPDES KYR10 Permit from the Kentucky Division of Water. All disturbed areas shall meet the requirements of the Department of Highway's Standard Specifications, Sections 212 and 213, as amended.

3. INDEMNITY:

- **A.** PERFORMANCE BOND: The permittee shall provide to the Department a performance bond according to the Permits Manual, Section PE-203 as a guarantee of conformance with the Department's Encroachment Permit requirements.
- **B.** PAYMENT BOND: At the discretion of the department, a payment bond shall be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
- **C.** LIABILITY INSURANCE: Liability insurance shall be required of the permittee (in an amount approved by the department) to cover all liabilities associated with the encroachment.
- **D.** It shall be the responsibility of the permittee, its successors and assigns, to maintain all indemnities in full force and effect until the permittee is authorized to release the indemnity by the Department.

4. A copy of this application and all related documents making up the approved permit shall be given to the applicant and shall be made readily available for review at the work site at all times.

5. Perpetual maintenance of the encroachment is the responsibility of the permittee, its successors and assigns, with the approval of the Department as required, unless otherwise stated.

6. Permittee, its successors and assigns, shall comply with and agree to be bound by the requirements and terms of (a) this application and all related documents making up the approved permit, (b) by the Department's Permits Manual, and (c) by the Manual on Uniform Traffic Control Devices, both manuals as revised to and in effect on the date of issuance of the permit, all of which documents are made a part thereof by this reference. Compliance by the permittee, its successors and assigns, with subsequent revisions to applicable provisions of either manual or other policy of the Department may be made a condition of allowing the encroachment to persist under the permit.

7. Permittee agrees that this and any encroachment may be ordered removed by the Department at any time, and for any reason, upon thirty days written notice to the last known address of the applicant or to the address at the location of the encroachment. The permittee agrees that the cost of removing and of restoring the associated right-of-way is the responsibility of the permittee, its successors and assigns.

8. Permittee, its successors and assigns, agree that if the Department determines that motor vehicular safety deficiencies develop as a result of the installation or use of the encroachment, the permittee, its successors and assigns, shall provide and bear the expenses to adjust, relocate, or reconstruct the facilities, add signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department within a reasonable time after receipt of a written notice of such deficiency. The period within which such adjustments, relocations, additions, modifications, or other corrective measures must be completed will be specified in the notice.

9. Where traffic signals are required as a condition of granting the requested permit or are thereafter required to correct motor vehicular safety deficiencies, as determined by the Department, the costs for signal equipment and

APPLICATION FOR ENCROACHMENT PERMIT

installation(s) shall be borne by the permittee, its successors and assigns and the Department in its reasonable discretion and only in accordance with the Department's current policy set forth in the Traffic Operations Manual and Permits Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property) shall be the responsibility of the permittee, its successors and assigns, at no expense to the Department.

10. The requested encroachment shall not infringe on the frontage rights of an abutting owner without their written consent as hereinafter described. Each abutting owner shall express their consent, which shall be binding on their successors and assigns, by the submission of a notarized statement as follows, "I (we), _____, hereby consent to the granting of the permit requested by the applicant along Route _____, which permit does affect frontage rights along my (our) adjacent real property." By signature(s) _____, subscribed and sworn by _____, on this date _____.

11. The permit, if approved, is subject to the agreement that it shall not interfere with any similar rights or permit(s) previously granted to any other party, except as otherwise provided by law.

12. Permittee shall include documentation which describes the facilities to be constructed. Permittee, its successors and assigns, agree as a condition of the granting of the permit to construct and maintain any and all permitted facilities or other encroachments in strict accordance with the submitted and approved permit documentation and the policies and procedures of the Department. Permittee, its successors and assigns, shall not use facilities authorized herein in any manner contrary to that prescribed by the approved permit. Only normal usage as contemplated by the parties and by this application and routine maintenance are authorized by the permit.

13. Permittee, its successors and assigns, at all times from the date permitted work is commenced until such time as all permitted facilities or other encroachments are removed from the right-of-way and the right-of-way restored, **shall defend, protect, indemnify and save harmless** the Department from any and all liability claims and demands arising out of the work, encroachment, maintenance, or other undertaking by the permittee, its successors and assigns, related or undertaken pursuant to the granted permit, due to any claimed act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party nor operate to enlarge any liability of the Department beyond that existing at common law or otherwise if this right to indemnity did not exist.

14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.

15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.

16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the

APPLICATION FOR ENCROACHMENT PERMIT

encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the expense of the permittee, except where the Department is required by law to pay any or all of those costs.

17. Permittee agrees that the authorized permit is personal to the permittee and shall remain in effect until such time as (a) the permittee's rights to the adjoining real property to have benefitted from the requested encroachment have been relinquished, (b) until all permit obligations have been assumed by appropriate successors and assigns, and (c) unless and until a written release from permit obligations has been granted by the Department. The permit and its requirements shall also bind the real property to have benefitted from the requested encroachment to the extent permitted by law. The permit and the related encroachment become the responsibility of the successors and assigns of the permittee and the successors and assigns of each property owner benefitting from the encroachment, or the encroachment may not otherwise permissibly continue to be maintained on the right-of-way. (Does not apply to utility encroachments serving the general public.)

18. If work authorized by the permit is within a highway construction project in the construction phase, it shall be the responsibility of the permittee to make personal contact with the Department's Engineer on the project in order to coordinate all permitted work with the Department's prime contractor on the project.

19. This permit is not intended to, nor shall it, affect, alter or alleviate any requirement imposed upon the permittee, its successors and assigns, by any other agency.

20. Permittee, its successors and assigns, agree to contain and maintain all dirt, mud, and other debris emanating from the encroachment away from the surrounding right-of-way and the travel way of the highway hereafter and at all times that its obligations under the permit remain in effect.

Kentucky Transportation Cabinet – District 8
Permit No. 08-2016-00206

Applicant to bore and case KY 3261 with a 12 inch steel casing for a 6 inch PVC water line at mile point 0.094, 1.76, 1.951 and 1.969 and bore at mp 0.014 with a 16 inch steel casing for a 12 inch PVC water line as shown on attached plans and Typical Highway Boring Crossing Detail.

Applicant to parallel right of mile point 0.60 to 1.76 and parallel left of mp 1.76 to mp 2.46 with a 6 inch PVC SDR 21 water line as shown on attached plans.

Underground utility crossing shall be constructed with 42 inches of cover from the top of the pipe to the low spot of the ditch or toe of slope as shown on the attached Typical Highway Boring Crossing Detail.

Parallel utility lines shall be constructed between back of slope of ditch line or toe of slope and the right of way line and shall have a minimum of 42 inches cover above the top of pipe or conduit.

No change shall be made contrary to this permit and the applicant's plans without first notifying and being approved by the Permit Engineer.

Construction of the utility shall not interfere with any construction or maintenance operations of the Kentucky Transportation Cabinet on KY 3261.

All work and materials shall meet or exceed the Kentucky Department of Highways Standard Specifications.

All disturbed portions of the right-of-way are to be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, 2012 edition. A satisfactory turf, as determined by the Department, is to be established by the permittee prior to release of indemnity.

The minimum rate of application for seeding and protection method II per 1000 square feet shall be applied as follows:

2 lbs. of seed mixture
23 lbs. of 10-20-20 fertilize
150 lbs. of agricultural limestone

Work area within the Kentucky Department of Highways right of way shall be signed and flagged in accordance to the Manual on Uniform Traffic Control Devices before any work is to begin on the Kentucky Department of Highways right of way.

It shall be the responsibility of the applicant to contact the Kentucky Department of Highways District 8 Permits Office at 606-677-4017 a minimum of 2 working days before

work begins on KY Transportation Cabinet right of way.

Contractor's equipment or other vehicles shall not be permitted to park on the roadway shoulders during the construction of this project without compliant traffic control.

This permit will be terminated and work will stop immediately at anytime the Department of Highways discovers or is notified of any unsafe or hazardous condition until corrections have been made.

ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

Permit No. 08-2016-00206

I. SAFETY

A. General Provisions

☒ All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways, latest edition, Part VI, and safety requirements shall comply with the Permits Manual.

☒ All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly completed so that hazards adjacent to the traveled way are kept to an absolute minimum.

☒ No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All signs and flaggers during lane closure shall conform to the Manual on Uniform Traffic Control Devices.

☒ When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, snow, fog, etc.) without specific permission from the Department. Working hours shall be between 8:30 AM and 4:00 PM

☒ The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility.

☒ No nonconstruction equipment or vehicles or office trailers shall be allowed on the right of way during working hours.

☒ The right of way shall be left free and clear of equipment, material, and vehicles during non-working hours.

B. Explosives

☒ No explosive devices or explosive material shall be used within state right of way without proper license and approval of the Kentucky Department of Mines and Minerals, Explosive Division.

C. Other Safety Requirements

☒ All workers must wear OSHA conforming personal protection items at all times when work is performed on the KYTC right of way. All traffic control must conform to the latest edition of the Manual on Uniform Traffic Control Devices

II. UTILITIES * Applies to Fully Controlled Access Highways ONLY

☐ *All work necessary within the right of way shall be performed behind a temporary fence erected prior to a boring operation.

☐ *The temporary woven wire fence shall be removed immediately upon completion of work on the right of way, and the control of access immediately restored to original condition, in accordance with applicable Kentucky Department of Highways Standard Drawings.

☐ *All vents, valves, manholes, etc., shall be located outside of the right-of-way.

☐ *Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints.

☒ The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep.

Permit No. _____

II. UTILITIES (Continued)

☒ Encasement pipe pipe shall conform to current standards for highway crossings in accordance with the Permits Manual.

☒ Parallel lines shall be constructed between back slope of ditch line and right-of-way line and shall have a minimum of 42-inch cover above top of pipe or conduit.

☐ All pavement cuts shall be restored per Kentucky Transportation Cabinet form TC 99-13.

☐ Aerial crossing of this utility line shall have a minimum clearance of _____ feet from the high point of the roadway to the low point of the line (calculated at the coefficient for expansion of 120 degrees Farenheit).

☐ The 30-foot clear zone requirement shall be met to the extent possible in accordance with the Permits Manual.

☐ Special requirements:

III. GENERAL

A. OSHA

☒ Kentucky Occupational Safety and Health Standards for the construction industry, which has the effect of law, states in part: (Page 52, 1926.651, Specific Excavation Requirements) "Prior to opening an excavation, effort shall be made to determine whether underground installations, (sewer, telephone, water, fuel, electric lines, etc.) will be encountered, and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation."

B. Archaeological

☒ Whenever materials of an archaeological nature are discovered during the course of construction work or maintenance operations, contact shall be made immediately with the Division of Environmental Analysis, which maintains an archaeologist on staff, or with the Office of the State Archaeologist located at the University of Kentucky. Following this consultation, further action shall be decided on a case-by-case basis by the State Highway Engineer or the Transportation Planning Engineer or their designated representative.

C. Utilities in the Work Areas

☒ The permittee shall be responsible for any damage to existing utilities, and any utility modifications or relocations within state right of way necessary, as determined by the Department or by the owner of the utility, shall be at the expense of the permittee and subject to the approval of the Department.

☐ All existing manholes and valve boxes shall be adjusted to be flush with finished grade.

D. Environmental

☒ If the activity to which this permit relates disturbs one acre or more of land, you must obtain a KPDES KYR10 permit.

Websites

http://www.water.ky.gov/permitting/wastewaterpermitting/KPDES/storm/

Inspectors for KPDES KYR10 at www.KEPSC.org

Permit No. _____

IV. RIGHT OF WAY RESTORATION

☒ All disturbed portions of the right of way shall be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition). A satisfactory turf, as determined by the Department, shall be established by the permittee prior to release of indemnity. Sodding or seeding shall be as follows:

Lawn or High Maintenance Situation	70% Lawn Fescue (e.g., variety - Falcon) 30% Bluegrass **or** 70% Lawn Rye (e.g., variety - Derby) 30% Bluegrass
Right of Way Lawn Maintenance Situation	70% KY 31 Fescue 30% Perennial Rye Grass **or** 100% KY Fescue

☒ Two tons of clean straw mulch per acre of seeding.

☒ Prior to seeding, the ground shall be prepared in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

☐ Substitutes for sod such as artificial turf, rocked mulch, or paved areas may be acceptable if they are aesthetically pleasing.

☐ All ditch-flow lines and all ditch-side slopes shall be sodded.

☒ Existing concrete right of way markers shall not be disturbed, but if damaged in any way, they shall be entirely replaced by the permittee, with new concrete markers to match the original markers, in accordance with Kentucky Department of Highways Standard Drawings. Markers that are entirely removed shall be re-established in the proper locations by the permittee and to the satisfaction of the Department.

☐ Other right of way restoration requirements are as follows:

V. DRAINAGE

☐ All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of installation including bedding and joint seating in accordance with Department Standard Specifications for Road and Bridge Construction (latest edition). Pipe shall not be covered until inspected by the Department and express permission obtained to make backfill.

☐ All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with curbs or in entrance areas or other paved areas within the right of way shall not be acceptable.

☐ All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall conform to Department specifications and shall be constructed in accordance with the Department Standard Drawings. Type required:

_____

_____

Permit No. _____

VI. Paving

☐ No bituminous pavement shall be installed within the right of way between November 15 and April 1, nor when the temperature is below 40 degrees Farenheit, without the express consent of the Department. No bituminous pavement shall be installed when the underlying course is wet.

☐ Paving within the right of way shall be as follows:

☐ Base (Type) _____ (Thickness) _____

☐ Surface Base (Type) _____ (Thickness) _____

☐ Finished Surface (Type) _____ (Thickness) _____

☐ Existing pavement and shoulder material shall be removed to acommodate the above paving specifications.

☐ The finished surface of all new pavement within the right of way shall be true to the required slope and grade, uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent highway pavement or as determined by the Department of Highways.

☐ All materials and methods of construction, including base and subgrade preparation, shall be in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

☐ 24 hours notice to the Department is required prior to beginning paving operations.

Phone: _____ Name: _____

☐ To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highway pavement and shall slope away from the existing edge of the pavement as specified in drawings.

☐ Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement. An approved joint sealer, in accordance with Kentucky Department of Highways Standard Specifications (latest edition), shall be applied between new and existing pavements.

VII. SIDEWALKS SPECIFICATIONS *This dimension should be equal to the width of the sidewalk.

A. New Sidewalks

☐ Sidewalks shall be constructed of Class A concrete (3,500 p.s.i. test), shall be *_____ feet in width, 6 inches in thickness across the bituminous entrance, and 4 inches in thickness across the remaining sections.

☐ Sidewalks shall have tooled joints not less than 1 inch in depth at four foot intervals*, and 1/2 premolded expansion joints extending entirely through the sidewalk at intervals not to exceed 50 feet.

☐ All materials and methods of construction, including curing, shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

B. Existing Sidewalks

☐ **(Applicable if existing sidewalks are being relocated)** Use of the sidewalk shall not be blocked or obstructed, and a usable walkway shall be maintained across the construction area at all times.

☐ All damaged sections of the sidewalks shall be entirely replaced to match existing sections.

VIII. DENSE GRADED SHOULDERS

☐ Any existing dense-graded aggregate shoulders in the entire frontage within the construction area, which have been disturbed or damaged or on which dirt has been placed or mud has been deposited or tracked, shall be restored to original condition by removal of all contaminated material and replaced to proper grade with new dense-graded aggregate.

☐ All new aggregate shoulders as specified in the plan shall consist of 5 inches of compacted dense-graded aggregate, 2 1/2 pounds per square yard of calcium chloride.

☐ All dense-graded aggregate shoulders shall slope away from the new edge of pavement at the rate of 3/4 inch per foot.

IX. CURBING

A. Bituminous Curbs

☐ Bituminous concrete curbs shall be given a paint coat of asphalt emulsion.

☐ The surface under the bituminous concrete curb shall be tacked with asphalt emulsion.

☐ All bituminous concrete curbs shall be constructed of a Class I bituminous concrete mixture as specified by official Department of Highways specifications.

☐ All bituminous curbs shall be rolled curb, with a minimum base width of 8 inches and a minimum height of _____ inches. The top of the curb shall be constructed in such a manner as to guarantee a uniform rolled effect throughout the entire run.

B. Concrete Curbs

☐ All curbs or curb and gutter shall be constructed of Class A concrete (3,500 p.s.i. test) and shall be uniform in height, width, and alignment, true to grade, and satisfactory in finish and appearance as determined by the Department. All materials and methods of construction, including curing, shall be in accordance with Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

☐ All concrete curbs shall be 6 inches in width, extend _____ inches above finished grade and 12 inches below finished grade, with all visible edge rounded to 1/2 inch radii.

☐ All concrete curbs shall have expansion joints constructed at intervals of not more than 30 feet, and 1/2 inch premolded expansion joint material (cut to conform to the curb or to the curb and gutter section) shall be used in each expansion joint.

☐ The last _____ feet of all concrete curbs are to be tapered down to finished grade.

Permit No. _____

X. RIGHT-OF-WAY FENCE REPLACEMENT

☐ The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to contain all animals (if applicable).

☐ The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-way line.

☐ The fence materials and design shall meet accepted industry standards and be treated as paintable.

☐ The permittee shall be required to maintain the fence in a high state of repair.

☐ The existing fence shall be removed by permittee and stored at the Department's maintenance storage yard for future reuse by the Department.

☐ The control of access shall not be diminished as a result of replacement of the fence.

☐ Miscellaneous:

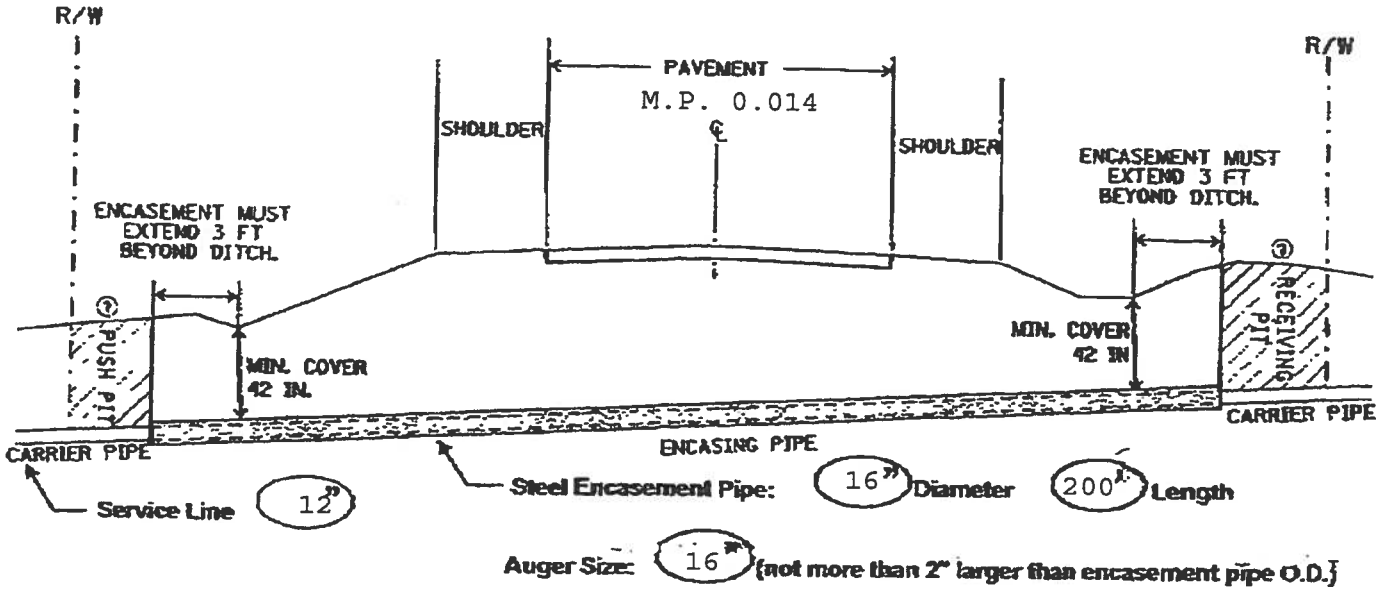
NOTICE TO PERMITTEE

THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF HIGHWAYS SHALL BE REMOVED BY THE PERMITTEE AT NO EXPENSE TO THE DEPARTMENT OF HIGHWAYS AND SHALL BE REDONE BY THE PERMITTEE TO CONFORM WITH THE APPROVED PLANS.

Route Number: KY HWY 3216 (WTLO RD)

Pavement Width: 200 LF

Failure to place bore at 42" depth will result in re-boring at applicant's expense, and may result in forfeiture of bond or other indemnity.



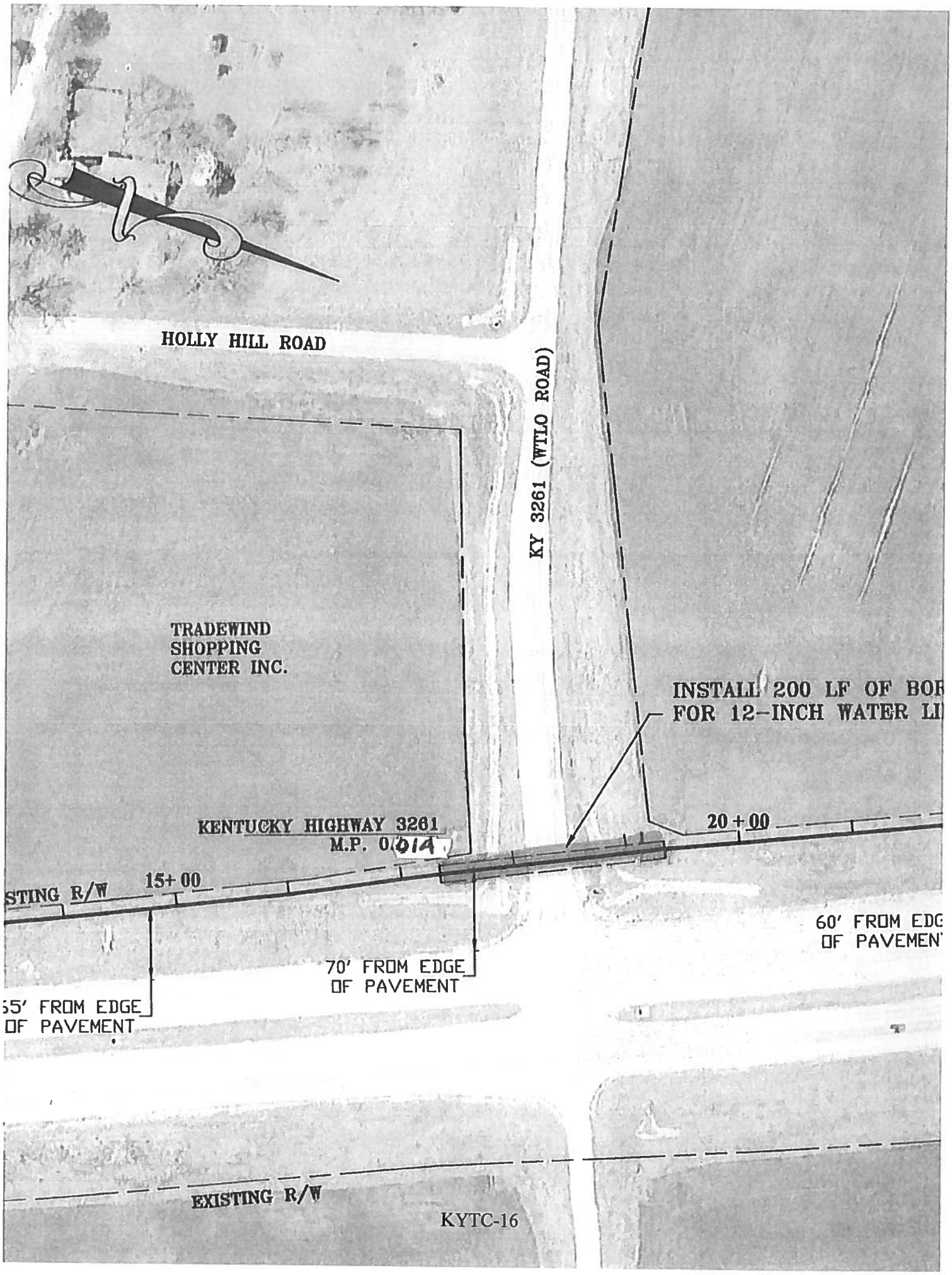
① Push pit and receiving pit shall be backfilled and thoroughly compacted.

2. All ditch lines shall be restored to original condition.

3. Shape, seed, and straw all disturbed areas.

4. Services over 2" shall be steel encased unless exempt under Chapter Two of the KYTC Permits Guidance Manual.

KENTUCKY DEPARTMENT OF HIGHWAYS
TYPICAL HIGHWAY BORING CROSSING DETAIL
TC99-10 Rev. 04/06 Dist. 4


HOLLY HILL ROAD
KY 3261 (WTLO ROAD)
TRADEWIND
SHOPPING
CENTER INC.
INSTALL 200 LF OF BOR
FOR 12-INCH WATER LI
KENTUCKY HIGHWAY 3261
M.P. 0.014
20+00
STING R/W
15+00
60' FROM EDG
OF PAVEMEN
70' FROM EDGE
OF PAVEMENT
55' FROM EDGE
OF PAVEMENT
EXISTING R/W

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

PERMITEE

Name: Western Pulaski Co Water District
Contact Person:
Address: 2128 West HWY 80
City: Somerset
State: Kentucky
Zip: 42503
Telephone: (606) 679-1569

PROJECT IDENTIFICATION

Permit Number: 08-2016-00206

I wish to notify the Department of Highways that the above mentioned permit work and any necessary right-of-way restoration have been completed and are ready for final inspection.

_____
Applicant

Please return this form to the address below when work is completed and ready for final inspection.

Please Return to: Permit Engineer
Department of Highways, District 8 Office
1660 South US 27
Somerset, Kentucky 42502
(606) 677-4017
www.transportation.ky.gov/

LOCATION(S)			
Description	County - Route	Latitude	Longitude
	Pulaski - KY 3261	37.067713	-84.659111

Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Department of Highways, District 8 Office
1660 S. Highway 27
Somerset, KY 42502
(606) 677-4017

Greg Thomas
Secretary

Western Pulaski County Water District
2128 West HWY 80
Somerset, KY 42503

Subject: Pulaski County
KY 914
MP 100-0914-1.38
Permit 08-2016-00209

Dear Sir:

The attached is your copy of the approved encroachment permit application. One copy is to be submitted to your contractor. This permit is to remain on the project until the permitted work is complete.

You are to shape and seed any disturbed areas on the State's right of way. All work and materials are to comply with the Department's Standard Specification for Road and Bridge Construction- 2012 Edition. Signs, barricades, lights, etc. if required, are to be installed in accordance with the Manual on Uniform Traffic Control Devices.

Please notify this office when permitted work begins. When work has been completed, the Notice of Completion of Encroachment Permit Work must be completed and returned so an inspection can be made by personnel from this office. If all work has been completed satisfactorily, your indemnity will then be released.

Yours truly,

Conley Moren, P.E. 10/7/2016
TEBM, Engineering Support Date
District 8- Somerset

TW/cm

Kentucky Transportation Cabinet
Department of Highways
Division of Maintenance
Permits Branch

ENCROACHMENT PERMIT

KEPT No.: 08-2016-00209

Permittee: Western Pulaski Co Water District

Permit Type / Subtype: Utilities / Water

Work Completion Date: 12/1/2017

INDEMNITIES		
Type	**Amount Required**	**Tracking Number**
Performance Bond	$0.00	
Cash / Check	$0.00	
Self-Insured	$0.00	
Payment Bond	$0.00	
Liability Insurance	$0.00	

This permit has been: **APPROVED** [X] **DENIED** [ ]

Conley Moren	D8 Engineering Support - TEBM	10/7/2016
SIGNATURE	**TITLE**	**DATE**

The TC 99-1(B), including the application TC-99 1(A) and all related and accompanying documents and drawings make up the permit. It is not a permit unless both the TC 99-1(A) and TC 99-1(B) are both present.

LOCATION(S)			
Description	**County - Route**	**Latitude**	**Longitude**
	Pulaski - KY 914	37.085371	-84.662465

Kentucky Transportation Cabinet
Department of Highways
Permits Branch

BUD
Before "U" Dig
CALL 811
For Buried Line/Cable Locations

APPLICATION FOR ENCROACHMENT PERMIT

KYTC No. 08-2016-00209

Permittee Information			
Name	Western Pulaski County Water District		
Address	2128 West Highway 80		
City	Somerset		
State	KY	Zip	42503
Phone#	(606) 679-1569		
Contact	Joe McClendon		
Phone	(606) 679-1569	Cell	(606) 271-6256
Email	joe~mcclendon@hotmail.com		
Contact	Tammy Vaught		
Phone	(606) 679-1569	Cell	
Email	tvaughtwpcwd@windstream.net		

Permit Information			
Address	Kentucky Highway 914 (Bypass)		
City	Somerset		
State	KY	Zip	42503
County	Pulaski		
Route No.	KY 914	Mile-Point	1.38 to 5.66
Longitude (X)	Start: 37*05'07" N End: 37* 01' 47" N		
Latitude (Y)	Start: 84*39'45" W End: 84* 38' 09" W		
Information below to be filled out by KYTC			
☐ Air Right	☐ Entrance		
☒ Utilities	☐ Other:		
	☐ Left	☒ Right	☐ X-ing
Access:	☐ Full	☐ Partial	☒ by Permit

General Description of Work:

1) M.P. 1.38 to 3.34, Install 12-Inch PVC SDR 21 water line on the right hand side of KY Highway 914 (Bypass) for approximately 10,700 LF.
2) M.P. 4.20 to 5.66, Install 12-Inch PVC SDR 21 water line on the right hand side of KY Highway 914 (Bypass) for approximately 7,850 LF.
Crossing at m.p. 5.39 with 220 L.F. 24 inch Steel casing for 12 inch PVC waterline at KY 1642,
R.S.

THE UNDERSIGNED PERMITTEE(s) (being duly authorized representative(s) or owner(s)) DO AGREE TO ALL TERMS AND CONDITIONS ON THE TC 99-1 (A).

Signature: [signature] Date: 7-25-16

This is not a permit unless and until the permittee(s) receives an approved TC 99-1(B) from KYTC. This application shall become void if not approved by the cancellation date. The cancellation date shall be one year from the date the permittee submits their application.

APPLICATION FOR ENCROACHMENT PERMIT

TERMS AND CONDITIONS

1. The permit, including this application and all related and accompanying documents and drawings making up the permit, remains in effect and is binding upon the Applicant/Permittee, its successors and assigns, as long as the encroachment(s) exists and also until the permittee is finally relieved by the Department of Highways from all its obligations.

2. Applicant shall meet all requirements of the Clean Water Act if the project will disturb one acre or more, the applicant shall obtain a KPDES KYR10 Permit from the Kentucky Division of Water. All disturbed areas shall meet the requirements of the Department of Highway's Standard Specifications, Sections 212 and 213, as amended.

3. INDEMNITY:

- **A.** PERFORMANCE BOND: The permittee shall provide to the Department a performance bond according to the Permits Manual, Section PE-203 as a guarantee of conformance with the Department's Encroachment Permit requirements.
- **B.** PAYMENT BOND: At the discretion of the department, a payment bond shall be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
- **C.** LIABILITY INSURANCE: Liability insurance shall be required of the permittee (in an amount approved by the department) to cover all liabilities associated with the encroachment.
- **D.** It shall be the responsibility of the permittee, its successors and assigns, to maintain all indemnities in full force and effect until the permittee is authorized to release the indemnity by the Department.

4. A copy of this application and all related documents making up the approved permit shall be given to the applicant and shall be made readily available for review at the work site at all times.

5. Perpetual maintenance of the encroachment is the responsibility of the permittee, its successors and assigns, with the approval of the Department as required, unless otherwise stated.

6. Permittee, its successors and assigns, shall comply with and agree to be bound by the requirements and terms of (a) this application and all related documents making up the approved permit, (b) by the Department's Permits Manual, and (c) by the Manual on Uniform Traffic Control Devices, both manuals as revised to and in effect on the date of issuance of the permit, all of which documents are made a part thereof by this reference. Compliance by the permittee, its successors and assigns, with subsequent revisions to applicable provisions of either manual or other policy of the Department may be made a condition of allowing the encroachment to persist under the permit.

7. Permittee agrees that this and any encroachment may be ordered removed by the Department at any time, and for any reason, upon thirty days written notice to the last known address of the applicant or to the address at the location of the encroachment. The permittee agrees that the cost of removing and of restoring the associated right-of-way is the responsibility of the permittee, its successors and assigns.

8. Permittee, its successors and assigns, agree that if the Department determines that motor vehicular safety deficiencies develop as a result of the installation or use of the encroachment, the permittee, its successors and assigns, shall provide and bear the expenses to adjust, relocate, or reconstruct the facilities, add signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department within a reasonable time after receipt of a written notice of such deficiency. The period within which such adjustments, relocations, additions, modifications, or other corrective measures must be completed will be specified in the notice.

9. Where traffic signals are required as a condition of granting the requested permit or are thereafter required to correct motor vehicular safety deficiencies, as determined by the Department, the costs for signal equipment and

APPLICATION FOR ENCROACHMENT PERMIT

installation(s) shall be borne by the permittee, its successors and assigns and the Department in its reasonable discretion and only in accordance with the Department's current policy set forth in the Traffic Operations Manual and Permits Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property) shall be the responsibility of the permittee, its successors and assigns, at no expense to the Department.

10. The requested encroachment shall not infringe on the frontage rights of an abutting owner without their written consent as hereinafter described. Each abutting owner shall express their consent, which shall be binding on their successors and assigns, by the submission of a notarized statement as follows, "I (we), _____, hereby consent to the granting of the permit requested by the applicant along Route _____, which permit does affect frontage rights along my (our) adjacent real property." By signature(s) _____, subscribed and sworn by _____, on this date _____.

11. The permit, if approved, is subject to the agreement that it shall not interfere with any similar rights or permit(s) previously granted to any other party, except as otherwise provided by law.

12. Permittee shall include documentation which describes the facilities to be constructed. Permittee, its successors and assigns, agree as a condition of the granting of the permit to construct and maintain any and all permitted facilities or other encroachments in strict accordance with the submitted and approved permit documentation and the policies and procedures of the Department. Permittee, its successors and assigns, shall not use facilities authorized herein in any manner contrary to that prescribed by the approved permit. Only normal usage as contemplated by the parties and by this application and routine maintenance are authorized by the permit.

13. Permittee, its successors and assigns, at all times from the date permitted work is commenced until such time as all permitted facilities or other encroachments are removed from the right-of-way and the right-of-way restored, **shall defend, protect, indemnify and save harmless** the Department from any and all liability claims and demands arising out of the work, encroachment, maintenance, or other undertaking by the permittee, its successors and assigns, related or undertaken pursuant to the granted permit, due to any claimed act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party nor operate to enlarge any liability of the Department beyond that existing at common law or otherwise if this right to indemnity did not exist.

14. Upon a violation of any provision of the permit, or otherwise in its reasonable discretion, the Department may require additional action by the permittee, its successors and assigns, up to and including the removal of the encroachment and restoration of the right-of-way. In the event additional actions required by the Department under the permit are not undertaken as ordered and within a reasonable time, the Department may in its discretion cause those or other additional corrective actions to be undertaken and the Department shall recover the reasonable costs of those corrective actions from the permittee, its successors and assigns.

15. Permittee, its successors and assigns, shall use the encroachment premises in compliance with all requirements of federal law and regulation, including those imposed pursuant to Title VI of the Civil Right Act of 1964 (42 U.S.C. § 2000d et seq.) and the related regulations of the U.S. Department of Transportation in Title 49 C.F.R. Part 21, all as amended.

16. Permittee, its successors and assigns, agree that if the Department determines it is necessary for the facilities or other encroachment authorized by the permit to be removed, relocated or reconstructed in connection with the reconstruction, relocation or improvement of a highway, the Department may revoke permission for the

APPLICATION FOR ENCROACHMENT PERMIT

encroachment to remain under the permit and may order its removal, relocation or reconstruction by the permittee, its successors and assigns, at the expense of the permittee, except where the Department is required by law to pay any or all of those costs.

17. Permittee agrees that the authorized permit is personal to the permittee and shall remain in effect until such time as (a) the permittee's rights to the adjoining real property to have benefitted from the requested encroachment have been relinquished, (b) until all permit obligations have been assumed by appropriate successors and assigns, and (c) unless and until a written release from permit obligations has been granted by the Department. The permit and its requirements shall also bind the real property to have benefitted from the requested encroachment to the extent permitted by law. The permit and the related encroachment become the responsibility of the successors and assigns of the permittee and the successors and assigns of each property owner benefitting from the encroachment, or the encroachment may not otherwise permissibly continue to be maintained on the right-of-way. (Does not apply to utility encroachments serving the general public.)

18. If work authorized by the permit is within a highway construction project in the construction phase, it shall be the responsibility of the permittee to make personal contact with the Department's Engineer on the project in order to coordinate all permitted work with the Department's prime contractor on the project.

19. This permit is not intended to, nor shall it, affect, alter or alleviate any requirement imposed upon the permittee, its successors and assigns, by any other agency.

20. Permittee, its successors and assigns, agree to contain and maintain all dirt, mud, and other debris emanating from the encroachment away from the surrounding right-of-way and the travel way of the highway hereafter and at all times that its obligations under the permit remain in effect.

KY Transportation Cabinet – District 8
Permit Number 08-2016-00209

Applicant to bore and encase at mp 3.96 on KY 1642 in Pulaski County with 220 feet of 24 inch steel casing for a 12 inch PVC water line. Applicant to parallel KY 914 right of mp. 1.38 to mp. 3.34 and mp. 4.20 to mp. 5.66 with a 12 inch PVC water line as per attached plans.

Parallel utility lines shall be constructed between back of slope of ditch line or toe of slope and the right of way line and shall have a minimum of 42 inches cover above the top of pipe or conduit.

Underground utility crossing shall be constructed with 42 inches of cover from the top of the pipe to the low spot of the ditch or toe of slope as shown on the attached Typical Highway Crossing Detail.

Note: Actual length of encasement pipe for each road bore shall be determined in the field to meet the requirements of the attached typical.

No changes shall be made contrary to this permit and the applicant's plans without first notifying and being approved by the Permit engineer.

Construction of the utility shall not interfere with any construction or maintenance operations of the Transportation Cabinet on KY 1642 and KY 914.

Roadway drainage shall be maintained at all times, with silt checks placed in the roadway ditch where needed and near the inlet of all culvert and entrance pipe to control erosion and prevent silt from settling inside of pipe.

The applicant shall provide all necessary steps to contain all silting within the work area as specified in Section 212 and Section 213, Department's Standard Specifications for Road and Bridge Construction.

All disturbed portions of the right-of-way are to be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, 2012 edition. A satisfactory turf, as determined by the Department, is to be established by the permittee prior to release of indemnity.

The minimum rate of application for seeding and protection method II per 1,000 square feet shall be applied as follows:

2 lbs. of seed mixture
23 lbs. of 10-20-20 fertilizer
150 lbs. of agricultural limestone

All work and materials shall meet or exceed the Kentucky Department of Highways

Standard Specifications.

Work area within the Kentucky Department of Highways right of way shall be signed and flagged in accordance to the Manual on Uniform Traffic Control Devices before any work is to begin on the Kentucky Department of Highways right of way.

Contractor's equipment or other vehicles shall not be permitted to park on the roadway shoulders during the construction of this project without compliant traffic control.

Applicant will be responsible to contact the Department of Highways D-8 Permits Office at 606-677-4017 a minimum of 2 working days prior to beginning of permitted work.

This permit will be terminated and work will stop immediately at any time the Department of Highways discovers or is notified of any unsafe or hazardous conditions until corrections have been made.

ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

Permit No. 08-2016-00209

I. SAFETY

A. General Provisions

☒ All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways, latest edition, Part VI, and safety requirements shall comply with the Permits Manual.

☒ All work necessary in shoulder or ditch line areas of a state highway shall be scheduled to be promptly completed so that hazards adjacent to the traveled way are kept to an absolute minimum.

☒ No more than one (1) traveled-lane shall be blocked or obstructed during normal working hours. All signs and flaggers during lane closure shall conform to the Manual on Uniform Traffic Control Devices.

☒ When necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes shall be blocked or obstructed during adverse weather conditions (rain, snow, fog, etc.) without specific permission from the Department. Working hours shall be between 8:30 AM and 4:00 PM

☒ The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility.

☒ No nonconstruction equipment or vehicles or office trailers shall be allowed on the right of way during working hours.

☒ The right of way shall be left free and clear of equipment, material, and vehicles during non-working hours.

B. Explosives

☒ No explosive devices or explosive material shall be used within state right of way without proper license and approval of the Kentucky Department of Mines and Minerals, Explosive Division.

C. Other Safety Requirements

☒ All workers must wear OSHA conforming personal protection items at all times when work is performed on the KYTC right of way. All traffic control must conform to the latest edition of the Manual on Uniform Traffic Control Devices

II. UTILITIES * Applies to Fully Controlled Access Highways **ONLY**

☐ *All work necessary within the right of way shall be performed behind a temporary fence erected prior to a boring operation.

☐ *The temporary woven wire fence shall be removed immediately upon completion of work on the right of way, and the control of access immediately restored to original condition, in accordance with applicable Kentucky Department of Highways Standard Drawings.

☐ *All vents, valves, manholes, etc., shall be located outside of the right-of-way.

☐ *Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints.

☒ The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 42 inches deep.

Permit No. _____

II. UTILITIES (Continued)

☒ Encasement pipe pipe shall conform to current standards for highway crossings in accordance with the Permits Manual.

☒ Parallel lines shall be constructed between back slope of ditch line and right-of-way line and shall have a minimum of 42-inch cover above top of pipe or conduit.

☐ All pavement cuts shall be restored per Kentucky Transportation Cabinet form TC 99-13.

☐ Aerial crossing of this utility line shall have a minimum clearance of _____ feet from the high point of the roadway to the low point of the line (calculated at the coefficient for expansion of 120 degrees Farenheit).

☐ The 30-foot clear zone requirement shall be met to the extent possible in accordance with the Permits Manual.

☐ Special requirements:

III. GENERAL

A. OSHA

☒ Kentucky Occupational Safety and Health Standards for the construction industry, which has the effect of law, states in part: (Page 52, 1926.651, Specific Excavation Requirements) "Prior to opening an excavation, effort shall be made to determine whether underground installations, (sewer, telephone, water, fuel, electric lines, etc.) will be encountered, and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation."

B. Archaeological

☒ Whenever materials of an archaeological nature are discovered during the course of construction work or maintenance operations, contact shall be made immediately with the Division of Environmental Analysis, which maintains an archaeologist on staff, or with the Office of the State Archaeologist located at the University of Kentucky. Following this consultation, further action shall be decided on a case-by-case basis by the State Highway Engineer or the Transportation Planning Engineer or their designated representative.

C. Utilities in the Work Areas

☒ The permittee shall be responsible for any damage to existing utilities, and any utility modifications or relocations within state right of way necessary, as determined by the Department or by the owner of the utility, shall be at the expense of the permittee and subject to the approval of the Department.

☐ All existing manholes and valve boxes shall be adjusted to be flush with finished grade.

D. Environmental

☒ If the activity to which this permit relates disturbs one acre or more of land, you must obtain a KPDES KYR10 permit.

Websites

http://www.water.ky.gov/permitting/wastewaterpermitting/KPDES/storm/

Inspectors for KPDES KYR10 at www.KEPSC.org

Permit No. _____

IV. RIGHT OF WAY RESTORATION

☒ All disturbed portions of the right of way shall be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition). A satisfactory turf, as determined by the Department, shall be established by the permittee prior to release of indemnity. Sodding or seeding shall be as follows:

Lawn or High Maintenance Situation	70% Lawn Fescue (e.g., variety - Falcon) 30% Bluegrass **or**
	70% Lawn Rye (e.g., variety - Derby) 30% Bluegrass
Right of Way Lawn Maintenance Situation	70% KY 31 Fescue 30% Perennial Rye Grass **or**
	100% KY Fescue

☒ Two tons of clean straw mulch per acre of seeding.

☒ Prior to seeding, the ground shall be prepared in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

☐ Substitutes for sod such as artificial turf, rocked mulch, or paved areas may be acceptable if they are aesthetically pleasing.

☐ All ditch-flow lines and all ditch-side slopes shall be sodded.

☒ Existing concrete right of way markers shall not be disturbed, but if damaged in any way, they shall be entirely replaced by the permittee, with new concrete markers to match the original markers, in accordance with Kentucky Department of Highways Standard Drawings. Markers that are entirely removed shall be re-established in the proper locations by the permittee and to the satisfaction of the Department.

☐ Other right of way restoration requirements are as follows:

V. DRAINAGE

☐ All pipe shall be laid in a straight alignment, to proper grades, and with all materials and methods of installation including bedding and joint seating in accordance with Department Standard Specifications for Road and Bridge Construction (latest edition). Pipe shall not be covered until inspected by the Department and express permission obtained to make backfill.

☐ All gutter lines at the base of new curbs shall be on continuous grades, and pockets of water along with curbs or in entrance areas or other paved areas within the right of way shall not be acceptable.

☐ All drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall conform to Department specifications and shall be constructed in accordance with the Department Standard Drawings. Type required:

_____

_____

Permit No. _____

VI. Paving

☐ No bituminous pavement shall be installed within the right of way between November 15 and April 1, nor when the temperature is below 40 degrees Farenheit, without the express consent of the Department. No bituminous pavement shall be installed when the underlying course is wet.

☐ Paving within the right of way shall be as follows:

☐ Base (Type) _____ (Thickness) _____

☐ Surface Base (Type) _____ (Thickness) _____

☐ Finished Surface (Type) _____ (Thickness) _____

☐ Existing pavement and shoulder material shall be removed to acommodate the above paving specifications.

☐ The finished surface of all new pavement within the right of way shall be true to the required slope and grade, uniform in density and texture, free of irregularities, and equivalent in riding qualities to the adjacent highway pavement or as determined by the Department of Highways.

☐ All materials and methods of construction, including base and subgrade preparation, shall be in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

☐ 24 hours notice to the Department is required prior to beginning paving operations.

Phone: _____ Name: _____

☐ To ensure proper surface drainage, the new pavement shall be flush with the edge of existing highway pavement and shall slope away from the existing edge of the pavement as specified in drawings.

☐ Existing edge of pavement shall be saw-cut to provide a straight and uniform joint for new pavement. An approved joint sealer, in accordance with Kentucky Department of Highways Standard Specifications (latest edition), shall be applied between new and existing pavements.

VII. SIDEWALKS SPECIFICATIONS *This dimension should be equal to the width of the sidewalk.

A. New Sidewalks

☐ Sidewalks shall be constructed of Class A concrete (3,500 p.s.i. test), shall be *_____ feet in width, 6 inches in thickness across the bituminous entrance, and 4 inches in thickness across the remaining sections.

☐ Sidewalks shall have tooled joints not less than 1 inch in depth at four foot intervals*, and 1/2 premolded expansion joints extending entirely through the sidewalk at intervals not to exceed 50 feet.

☐ All materials and methods of construction, including curing, shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

B. Existing Sidewalks

☐ **(Applicable if existing sidewalks are being relocated)** Use of the sidewalk shall not be blocked or obstructed, and a usable walkway shall be maintained across the construction area at all times.

☐ All damaged sections of the sidewalks shall be entirely replaced to match existing sections.

VIII. DENSE GRADED SHOULDERS

☐ Any existing dense-graded aggregate shoulders in the entire frontage within the construction area, which have been disturbed or damaged or on which dirt has been placed or mud has been deposited or tracked, shall be restored to original condition by removal of all contaminated material and replaced to proper grade with new dense-graded aggregate.

☐ All new aggregate shoulders as specified in the plan shall consist of 5 inches of compacted dense-graded aggregate, 2 1/2 pounds per square yard of calcium chloride.

☐ All dense-graded aggregate shoulders shall slope away from the new edge of pavement at the rate of 3/4 inch per foot.

IX. CURBING

A. Bituminous Curbs

☐ Bituminous concrete curbs shall be given a paint coat of asphalt emulsion.

☐ The surface under the bituminous concrete curb shall be tacked with asphalt emulsion.

☐ All bituminous concrete curbs shall be constructed of a Class I bituminous concrete mixture as specified by official Department of Highways specifications.

☐ All bituminous curbs shall be rolled curb, with a minimum base width of 8 inches and a minimum height of _____ inches. The top of the curb shall be constructed in such a manner as to guarantee a uniform rolled effect throughout the entire run.

B. Concrete Curbs

☐ All curbs or curb and gutter shall be constructed of Class A concrete (3,500 p.s.i. test) and shall be uniform in height, width, and alignment, true to grade, and satisfactory in finish and appearance as determined by the Department. All materials and methods of construction, including curing, shall be in accordance with Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).

☐ All concrete curbs shall be 6 inches in width, extend _____ inches above finished grade and 12 inches below finished grade, with all visible edge rounded to 1/2 inch radii.

☐ All concrete curbs shall have expansion joints constructed at intervals of not more than 30 feet, and 1/2 inch premolded expansion joint material (cut to conform to the curb or to the curb and gutter section) shall be used in each expansion joint.

☐ The last _____ feet of all concrete curbs are to be tapered down to finished grade.

Permit No. _____

X. RIGHT-OF-WAY FENCE REPLACEMENT

☐ The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to contain all animals (if applicable).

☐ The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-way line.

☐ The fence materials and design shall meet accepted industry standards and be treated as paintable.

☐ The permittee shall be required to maintain the fence in a high state of repair.

☐ The existing fence shall be removed by permittee and stored at the Department's maintenance storage yard for future reuse by the Department.

☐ The control of access shall not be diminished as a result of replacement of the fence.

☐ Miscellaneous:

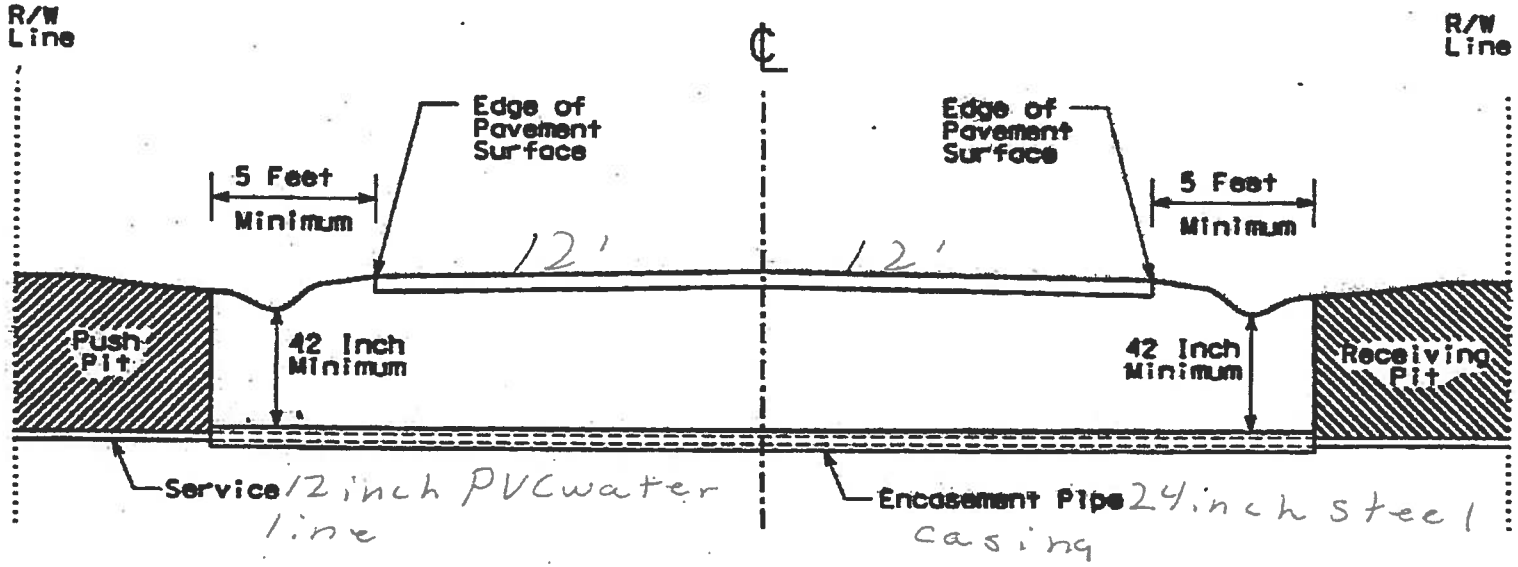
NOTICE TO PERMITTEE

THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF HIGHWAYS SHALL BE REMOVED BY THE PERMITTEE AT NO EXPENSE TO THE DEPARTMENT OF HIGHWAYS AND SHALL BE REDONE BY THE PERMITTEE TO CONFORM WITH THE APPROVED PLANS.

Kentucky Transportation Cabinet
Department of Highways
Permits Branch

TYPICAL HIGHWAY BORING CROSSING DETAIL

Permit No. 08-2016-00209
Route No. KY 1642
Pavement Width 24 ft



1. Push Pit and Receiving Pit shall be backfilled and thoroughly compacted.
2. All ditch lines are to remain open at all times.
3. Seed and straw all disturbed areas immediately after completing the work.
4. Provide traffic control as required to insure the safety of the traveling public in accordance with the current edition of the "Manual on Uniform Traffic Control Devices".

ALL SERVICES OVER 2" IN DIAMETER SHALL REQUIRE ENCASEMENT.

KYTC-32

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

PERMITEE

Name: Western Pulaski Co Water District
Contact Person:
Address: 2128 West HWY 80
City: Somerset
State: Kentucky
Zip: 42503
Telephone: (606) 679-1569

PROJECT IDENTIFICATION

Permit Number: 08-2016-00209

I wish to notify the Department of Highways that the above mentioned permit work and any necessary right-of-way restoration have been completed and are ready for final inspection.

_____
Applicant

Please return this form to the address below when work is completed and ready for final inspection.

Please Return to: Permit Engineer
Department of Highways, District 8 Office
1660 South US 27
Somerset, Kentucky 42502
(606) 677-4017
www.transportation.ky.gov/

LOCATION(S)			
Description	County - Route	Latitude	Longitude
	Pulaski - KY 914	37.085371	-84.662465

EXHIBIT C

Estimated Cost of Operation After Completion

COST OF OPERATING BUDGET – PROJECT COMPLETION

A.	Operating Income:	
	Water Sales	$3,097,078
	Disconnect/Reconnect/Late Charge Fees	113,000
	Other (Describe) Tap Fees & Supplies	52,000
	Less Allowances and Deductions	
	Total Operating Income	$3,262,078
B.	Operation and Maintenance Expenses: (Based on Uniform System of Accounts prescribed by National Association of Regulatory Utility Commissioners)	
	Source of Supply Expense	$1,205,135
	Pumping Expense	125,494
	Water Treatment Expense	0
	Transmission and Distribution Expense	130,971
	Customer Accounts Expense	39,047
	Administrative and General Expense	1,064,528
	Total Operating Expenses	$2,565,175
	Net Operating Income	$696,903
C.	Non Operating Income:	
	Interest on Deposits	$3,000
	Other (Identify)	0
	Total Non-Operating Income	$3,000
D.	Net Income	$699,903
E.	Debt Repayment:	
	RUS Interest	$175,596
	RUS Principal	98,500
	Non-RUS Interest	106,574
	Non-RUS Principal	269,234
	Total Debt Repayment	$649,904
F.	Balance Available for Coverage	$49,999
G.	Reserve Accounts	
	Short Lived Assets Replacement Reserves	$30,159
	Debt Reserve	19,840
	Total Reserve	$49,999

EXHIBIT D

Bid Tabulations

Monarch Engineering, Inc.

March 30, 2020

Mr. Don Calder, Chairman
Western Pulaski County Water District
2128 West Highway 80
Somerset, KY 42503

Re: Somerset Bypass Highway Water Transmission Main

Dear Mr. Calder:

On March 25, 2020, bids were received for the construction of a water transmission main and pump station located on the southern portion of the Somerset Bypass Highway. Seven bids were received and the lowest was submitted by Clay Pipeline, Inc. located in Manchester, KY in the amount of $1,598,480. A summarized bid tabulation is attached that shows the unit and total prices for all items that were bid by each bidder.

Please find attached the Final Project Budget that reflects the proposal by Clay Pipeline, Inc., and other associated project costs. As summarized in the Budget, there are sufficient funds to construct the project as designed. Therefore, based on the need for the Water District to construct these water system improvements and in accordance with the proposal submitted by Clay Pipeline, Inc., we recommend that the Water District award a contract to Clay Pipeline, Inc., in the amount of $1,598,480. This recommendation is contingent upon approval by the Kentucky Public Service Commission and the Kentucky Infrastructure Authority.

Should you need additional information, please advise.

Sincerely,

David M. Bowles, P.E.
President

/dmb

Attachments

556 Carlton Dr. • Lawrenceburg, Ky. 40342 • 502-839-1310 • Fax 502-839-1373

MONARCH ENGINEERING, INC.
556 Carlton Drive
Lawrenceburg, KY 40342
Phone (502) 839-1310
Fax (502) 839-1373

BID TABULATIONS
WESTERN PULASKI COUNTY WATER DISTRICT
WATER SYSTEM IMPROVEMENTS:
CONTRACT NO. 2
KENTUCKY HIGHWAY 914 BYPASS
WATER TRANSMISSION MAIN
PULASKI COUNTY, KENTUCKY
BID DATE: MARCH 25, 2020 @ 11:00 A.M. LOCAL TIME

			Clay Pipeline 70 Fox Hollow Road Manchester, KY 40962		Flo-Line Contracting 189 Sunstar Blvd. Monticello, KY 42633		Stotts Construction Co., Inc. P.O. Box 1689 Columbia, KY 42728	
ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	BASE BID CONTRACT							
1	16-Inch Ductile Iron CL350 Water Line	7,400 LF	$71.70	$530,580.00	$77.00	$569,800.00	$73.00	$540,200.00
2	12-Inch PVC SDR 21 Water Line	7,600 LF	28.20	214,320.00	31.00	235,600.00	32.00	243,200.00
3	8-Inch PVC SDR 21 Water Line	50 LF	76.00	3,800.00	20.00	1,000.00	24.00	1,200.00
4	Bore & Case for 16-Inch Water Line	830 LF	253.00	209,990.00	250.00	207,500.00	225.00	186,750.00
5	Bore & Case for 12-Inch Water Line	350 LF	204.00	71,400.00	225.00	78,750.00	180.00	63,000.00
6	Free Bore for 16-Inch Water Line	20 LF	200.00	4,000.00	120.00	2,400.00	80.00	1,600.00
7	Free Bore for 12-Inch Water Line	90 LF	150.00	13,500.00	100.00	9,000.00	50.00	4,500.00
8	16-Inch Butterfly Valve	2 EA	5,546.00	11,092.00	4,500.00	9,000.00	6,200.00	12,400.00
9	16-Inch Gate Valve	2 EA	8,215.00	16,430.00	7,500.00	15,000.00	8,500.00	17,000.00
10	12-Gate Valve	8 EA	3,215.00	25,720.00	2,900.00	23,200.00	7,300.00	58,400.00
11	8-Inch Gate Valve	3 EA	2,190.00	6,570.00	1,800.00	5,400.00	2,800.00	8,400.00
12	Type II Connection	2 EA	6,854.00	13,708.00	5,300.00	10,600.00	2,500.00	5,000.00
13	Direct Connection	3 EA	2,215.00	6,645.00	2,500.00	7,500.00	1,500.00	4,500.00
14	3-Way Flush Hydrant Assembly	5 EA	5,025.00	25,125.00	5,800.00	29,000.00	5,500.00	27,500.00
15	Master Meter	1 LS	38,600.00	38,600.00	32,000.00	32,000.00	40,000.00	40,000.00
16	Water Booster Pump Station	1 LS	399,000.00	399,000.00	410,250.00	410,250.00	468,000.00	468,000.00
17	Exploration	40 HR	200.00	8,000.00	100.00	4,000.00	50.00	2,000.00
	TOTAL BASE BID			**$1,598,480.00**		**$1,650,000.00**		**$1,683,650.00**

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00 A.M. LOCAL TIME, WEDNESDAY, MARCH 25, 2020 AT THE WESTERN PULASKI COUNTY WATER DISTRICT.

BY: Deron S. Byrne

Deron S. Byrne

3/25/20
Date

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED
PROFESSIONAL ENGINEER

Project No. 1533

MONARCH ENGINEERING, INC.
556 Carlton Drive
Lawrenceburg, KY 40342
Phone (502) 839-1310
Fax (502) 839-1373

BID TABULATIONS
WESTERN PULASKI COUNTY WATER DISTRICT
WATER SYSTEM IMPROVEMENTS:
CONTRACT NO. 2
KENTUCKY HIGHWAY 914 BYPASS
WATER TRANSMISSION MAIN
PULASKI COUNTY, KENTUCKY
BID DATE: MARCH 25, 2020 @ 11:00 A.M. LOCAL TIME

			Weddle Enterprises, Inc. 25 Shane's Lane Somerset, KY 42501		Cumberland Pipeline, LLC 2909 Cane Valley Road Columbia, KY 42728		United Pipeline, Inc. 150 Hill Road Tompkinsville, KY 42167	
ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	BASE BID CONTRACT							
1	16-Inch Ductile Iron CL350 Water Line	7,400 LF	$81.65	$604,210.00	$80.00	$592,000.00	$100.00	$740,000.00
2	12-Inch PVC SDR 21 Water Line	7,600 LF	35.15	267,140.00	34.00	258,400.00	29.00	220,400.00
3	8-Inch PVC SDR 21 Water Line	50 LF	30.00	1,500.00	29.00	1,450.00	27.00	1,350.00
4	Bore & Case for 16-Inch Water Line	830 LF	275.00	228,250.00	281.00	233,230.00	390.00	323,700.00
5	Bore & Case for 12-Inch Water Line	350 LF	257.00	89,950.00	241.00	84,350.00	390.00	136,500.00
6	Free Bore for 16-Inch Water Line	20 LF	130.00	2,600.00	100.00	2,000.00	75.00	1,500.00
7	Free Bore for 12-Inch Water Line	90 LF	130.00	11,700.00	100.00	9,000.00	75.00	6,750.00
8	16-Inch Butterfly Valve	2 EA	8,250.00	16,500.00	4,841.00	9,682.00	6,200.00	12,400.00
9	16-Inch Gate Valve	2 EA	14,300.00	28,600.00	7,653.00	15,306.00	8,000.00	16,000.00
10	12-Gate Valve	8 EA	2,700.00	21,600.00	2,815.00	22,520.00	3,400.00	27,200.00
11	8-Inch Gate Valve	3 EA	1,565.00	4,695.00	1,806.00	5,418.00	2,300.00	6,900.00
12	Type II Connection	2 EA	6,450.00	12,900.00	6,245.00	12,490.00	3,000.00	6,000.00
13	Direct Connection	3 EA	1,600.00	4,800.00	2,600.00	7,800.00	2,000.00	6,000.00
14	3-Way Flush Hydrant Assembly	5 EA	5,700.00	28,500.00	5,364.00	26,820.00	6,000.00	30,000.00
15	Master Meter	1 LS	32,600.00	32,600.00	32,175.00	32,175.00	37,600.00	37,600.00
16	Water Booster Pump Station	1 LS	425,500.00	425,500.00	472,000.00	472,000.00	446,500.00	446,500.00
17	Exploration	40 HR	10.00	400.00	200.00	8,000.00	100.00	4,000.00
	TOTAL BASE BID			**$1,781,445.00**		**$1,792,641.00**		**$2,022,800.00**

MONARCH ENGINEERING, INC.
556 Carlton Drive
Lawrenceburg, KY 40342
Phone (502) 839-1310
Fax (502) 839-1373

BID TABULATIONS
WESTERN PULASKI COUNTY WATER DISTRICT
WATER SYSTEM IMPROVEMENTS:
CONTRACT NO. 2
KENTUCKY HIGHWAY 914 BYPASS
WATER TRANSMISSION MAIN
PULASKI COUNTY, KENTUCKY
BID DATE: MARCH 25, 2020 @ 11:00 A.M. LOCAL TIME

			K. Carrender Const. Co., Inc. 200 Ringgold Rold Somerset, KY 42503	
ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
	BASE BID CONTRACT			
1	16-Inch Ductile Iron CL350 Water Line	7,400 LF	$116.50	$862,100.00
2	12-Inch PVC SDR 21 Water Line	7,600 LF	60.85	462,460.00
3	8-Inch PVC SDR 21 Water Line	50 LF	52.75	2,637.50
4	Bore & Case for 16-Inch Water Line	830 LF	540.00	448,200.00
5	Bore & Case for 12-Inch Water Line	350 LF	500.00	175,000.00
6	Free Bore for 16-Inch Water Line	20 LF	350.00	7,000.00
7	Free Bore for 12-Inch Water Line	90 LF	350.00	31,500.00
8	16-Inch Butterfly Valve	2 EA	6,730.00	13,460.00
9	16-Inch Gate Valve	2 EA	9,940.00	19,880.00
10	12-Gate Valve	8 EA	3,785.00	30,280.00
11	8-Inch Gate Valve	3 EA	2,180.00	6,540.00
12	Type II Connection	2 EA	6,450.00	12,900.00
13	Direct Connection	3 EA	2,800.00	8,400.00
14	3-Way Flush Hydrant Assembly	5 EA	6,000.00	30,000.00
15	Master Meter	1 LS	64,400.00	64,400.00
16	Water Booster Pump Station	1 LS	677,000.00	677,000.00
17	Exploration	40 HR	100.00	4,000.00
	TOTAL BASE BID			**$2,855,757.50**

EXHIBIT E

Final Project Budget

FINAL PROJECT BUDGET
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY
CONTRACT 2 - WATER SYSTEM IMPROVEMENTS
KY HIGHWAY 914 BYPASS TRANSMISSION MAIN
MARCH 25, 2020

PROJECT COSTS	
DEVELOPMENT	$1,598,480.00
CONTINGENCY	353,134.69
ENGINEERING DESIGN	129,956.42
CONSTRUCTION INSPECTION	79,924.00
SURVEYING	1,140.00
ENVIRONMENTAL ASSESSMENT	3,700.00
TOTAL PROJECT COSTS	**$2,166,335.11**
PROJECT FINANCING	
KENTUCKY INFRASTRUCTURE AUTHORITY	$2,166,335.11
TOTAL PROJECT FINANCING	**$2,166,335.11**

WESTERN PULASKI COUNTY WATER DISTRICT
WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
CONTRACT 2 - KENTUCKY HIGHWAY 914 BYPASS TRANSMISSION MAIN
BREAKDOWN OF PROJECT COSTS BY USOA
ACCOUNT NUMBER: 330

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	16-Inch Ductile Iron CL350 Water Line	7,400	LF	$71.70	$530,580.00
2	12-Inch PVC SDR 21 Water Line	7,600	LF	28.20	214,320.00
3	8-Inch PVC SDR 21 Water Line	50	LF	76.00	3,800.00
4	Bore & Case for 16-Inch Water Line	830	LF	253.00	209,990.00
5	Bore & Case for 12-Inch Water Line	350	LF	204.00	71,400.00
6	Free Bore for 16-Inch Water Line	20	LF	200.00	4,000.00
7	Free Bore for 12-Inch Water Line	90	LF	150.00	13,500.00
8	16-Inch Butterfly Valve	2	EA	5,546.00	11,092.00
9	16-Inch Gate Valve	2	EA	8,215.00	16,430.00
10	12-Gate Valve	8	EA	3,215.00	25,720.00
11	8-Inch Gate Valve	3	EA	2,190.00	6,570.00
12	Type II Connection	2	EA	6,854.00	13,708.00
13	Direct Connection	3	EA	2,215.00	6,645.00
14	3-Way Flush Hydrant Assembly	5	EA	5,025.00	25,125.00
15	Master Meter	1	LS	38,600.00	38,600.00
16	Water Booster Pump Station	1	LS	399,000.00	399,000.00
17	Exploration	40	HR	200.00	8,000.00
CONSTRUCTION TOTAL					**$1,598,480.00**

EXHIBIT F

Best Guess for Water Loss

STATEMENT ADDRESSING "BEST GUESS" UNACCOUNTED-FOR WATER LOSS REDUCTION

WESTERN PULASKI COUNTY WATER DISTRICT
WATER SYSTEM IMPROVEMENTS & REPLACEMENTS:
CONTRACT 2 – KY HIGHWAY 914 BYPASS TRANSMISSION MAIN

Phase 2 (Contract 2) that is being funded by the KIA Kentucky State Revolving Fund F (SRF), DWSRF Loan Number F16-003 has been modified from its original scope of work as described in the Certificate of Public Convenience and Necessity ("CPCN"), Case No. 2017-00063 for Phase 1. Phase 2 (Contract 2) does not address water loss reduction due to availability of remaining funds, estimated costs, and the as-bid cost of Contract 2. Phase 2 (Contract 2) consists only of the new transmission main and a new water booster pump station. Thus, eliminating the replacement of existing dilapidated and undersized water lines, installation of 100 radio read meters, and replacement of service lines as described in Case No. 2017-00063 for Phase 1.