

Rubin & Hays

ATTORNEYS AT LAW

Kentucky Home Trust Building, 450 South Third Street, Louisville, Kentucky 40202-1410
Telephone (502) 569-7525 Telefax (502) 569-7555 www.rubinhays.com

CHARLES S. MUSSON
W. RANDALL JONES
CHRISTIAN L. JUCKETT

RECEIVED

SEP 11 2017

PUBLIC SERVICE
COMMISSION

September 7, 2017

Mr. John S. Lyons
Acting Executive Director
Public Service Commission
P.O. Box 615
Frankfort, Kentucky 40602

Case No. 2017-00372

Re: Adair County Water District PSC Application for the issuance of a CPCN

Dear Mr. Lyons:

Enclosed please find the original and ten (10) copies of the Application of the Adair County Water District for a Certificate of Public Convenience and Necessity to construct a water system improvements project pursuant to KRS 278.020 and 807 KAR 5:001.

Also enclosed are eleven (11) copies of the exhibits required pursuant to 807 KAR 5.001 and a CD with the Plans and Specifications and 2 paper copies of the location maps.

If you need any additional information or documentation, please let us know.

Sincerely,

Rubin & Hays

By 
W. Randall Jones

WRJ:jl
Enclosures
cc: Distribution List

DISTRIBUTION LIST

**Re: Adair County Water District, d/b/a Columbia/Adair Utilities District PSC
Application for the Issuance of a CPCN - 2017 Water System Improvements
Project - Burkesville Street.**

Mr Lenny Stone, General Manager
Adair County Water District
d/b/a Columbia/Adair Utilities District
109 Grant Lane
Columbia, Kentucky 42728
lenny.stone@caud.net

Telephone: (270) 384-2181
Fax: (270) 384-3437

Deron S. Byrne, P.E.
Monarch Engineering, Inc.
556 Carlton Drive
Lawrenceburg, Kentucky 40342
dbyrne@monarchengineering.net

Telephone: (502) 839-1310
Fax: (502) 839-1373

W. Randall Jones, Esq.
Rubin & Hays
Kentucky Home Trust Building
450 South Third Street
Louisville, Kentucky 40202
wrjones@rubinhays.com

Phone: (502) 569-7534
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RECEIVED

SEP 11 2017

PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY

BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION

IN THE MATTER OF:

THE APPLICATION OF THE ADAIR COUNTY)
WATER DISTRICT FOR THE ISSUANCE OF A)
CERTIFICATE OF PUBLIC CONVENIENCE AND)
NECESSITY TO CONSTRUCT A WATER SYSTEM) Case No. 2017 - 00372
IMPROVEMENTS PROJECT PURSUANT TO THE)
PROVISIONS OF KRS 278.020 AND 807 KAR 5:001)

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

APPLICATION

The Applicant, Adair County Water District, d/b/a Columbia/Adair Utilities District (the "District"), files this Application pursuant to KRS 278.020(1) and 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 to construct a water system 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 Adair County, which Order is on file in the County Court Order Books in the office of the Clerk of Adair 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:

Adair County Water District, d/b/a Columbia/Adair Utilities District
c/o Mr. Lenny Stone, General Manager
109 Grant Lane
Columbia, Kentucky 42728
Telephone: (270) 384-2181
Fax: (270) 384-3437
Email: lenny.stone@caud.net

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 2016 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: The proposed Burkesville Street Water Improvements Project (hereinafter the "Project") and the need for the Project is described in **Exhibit "A"** attached hereto.
- (ii) Section 15(2)(b): Copies of Permits: Required permits include a Kentucky Division of Water Construction Permit and Kentucky Transportation Cabinet Encroachment permit. Copies of both required permits are attached hereto as **Exhibit "B"**.

- (iii) Section 15(2)(c): Description of Proposed Location or Route. A description of the proposed location and routes of the construction are shown on the maps being filed herewith. The proposed Project will not compete with any other public utilities and will not result in any wasteful duplication.
- (iv) Section 15(2)(d)(1) and (2): Maps to Suitable Scale and Plans and Specifications: two paper maps and a .pdf format on electronic storage medium showing the location and route 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: The District is financing the Project with the remaining funds of a \$4,000,000 Federally Assisted Drinking Water Revolving Loan Fund loan (Fund F) F12-04 (the "DWSRF Loan"). Said DWSRF Loan, as administered by the Kentucky Infrastructure Authority ("KIA") was approved by the Commission in **Case No. 2014-00020**, dated March 4, 2014.
- (vi) Section 15(2)(f) Statement of Estimated Annual Cost of Operation: the proposed annual production and operation costs after the Project is placed in service are attached hereto as **Exhibit "C"**.

6. The Project was bid on July 27, 2017. Certified copies of the bid tabulations for the Project and the Engineer's letter of recommendation on the Project are attached hereto as **Exhibit "D"**.

7. Final Project Budget is attached hereto as **Exhibit "E"**.

8. A letter from KIA, dated July 21, 2016 allowing the District to use the remaining proceeds of the DWSRF Loan for the Project is attached hereto as **Exhibit "F"**.

9. No rate adjustment will be necessary.

WHEREFORE, the District respectfully requests that the Commission take the following actions:

A. Grant the District a Certificate of Public Convenience and Necessity permitting the District to construct the Project; and

B. Grant the District any other relief to which said District is entitled.

Adair County Water District d/b/a Columbia/Adair
Utilities District

By William Harris
William Harris, Chairman
109 Grant Lane
Columbia, Kentucky 42728
Telephone: (270) 384-2181
Fax: (270) 384-3437
Email: lenny.stone@caud.net

Rubin & Hays

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

STATE OF KENTUCKY)
) SS
COUNTY OF ADAIR)

The affiant, William Harris, being first duly sworn, states: That is the Chairman of the Adair County Water District, d/b/a Columbia/Adair Utilities 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 1st day of September, 2017.

William Harris
William Harris, Chairman

SUBSCRIBED, SWORN TO AND ACKNOWLEDGED before me by William Harris, Chairman of the Adair County Water District, d/b/a Columbia/Adair Utilities District on this the 1 day of September, 2017.

My Commission expires: 9-12-2020.

Jennifer Carter
Notary Public
Notary ID#: 564712

PROJECT NARRATIVE

COLUMBIA-ADAIR UTILITIES DISTRICT DOWNTOWN WATER SYSTEM REPLACEMENTS PHASE 1 – SECTION 2: BURKESVILLE STREET AREA

The Columbia-Adair Utilities District is currently pursuing improvements to its water system downtown, City of Columbia, known as the Burkesville Street Area Water System Improvements. The purpose of this project is to replace existing waterlines in the downtown, City of Columbia, area that are asbestos-cement (AC) lined and are undersized. The City, prior to the merger with the Adair County Water District, have sought for funding to have these lines replaced for years. The replacement of these water lines will eliminate the continuous maintenance problem due to deterioration and improve the quality of the water line in the system.

PROJECT DESCRIPTION

COLUMBIA-ADAIR UTILITIES DISTRICT DOWNTOWN WATER SYSTEM REPLACEMENTS PHASE 1 – SECTION 2: BURKESVILLE STREET AREA

The Columbia-Adair Utilities District is currently pursuing improvements to its water system downtown, City of Columbia, known as the Burkesville Street Area Water System Improvements. This project is an addition to the Downtown Water Systems Improvements project that is being funded by the KIA Kentucky State Revolving Fund F (SRF), DWSRF Loan Number F12-04. The project entails the installation of approximately 5,300 LF of 8-inch water line to replace existing 6-inch water line along Burkesville Street (KY Highway 80), 560 LF of 6-inch water line to replace existing 6-inch water line along Taylor Street, 1,200 LF of new 4-inch water line and appurtenances along Burkesville Street (KY Highway 80), and 660 LF of new 3-inch water line along Taylor Street and Lancaster Street.

The total construction cost has been estimated to be \$1,104,750.00, with a total project cost of \$1,349,091.30. The project is funded with remaining funds from the Downtown Water Systems Improvements project through a KIA State Revolving Fund (Fund F) Loan in the amount of \$4,000,000.

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

July 19, 2017

Mr. Lennon Stone
Columbia/Adair Co Water Commission
109 Grant Ln
Columbia, KY 42728

RE: Downtown Water System Replacement
Phase 1 Sect. 2 Taylor County, KY
Columbia/Adair Co Water Commission
AI # 55137, APE20170004
PWSID # 0011016-17-004

Dear Mr. Stone:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 4350 LF of 8-inch PVC, 700 LF of 8-inch DI, 300 LF of 6-inch PVC, 1200 LF of 4-inch PVC and 660 LF of 3-inch PVC waterline. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

Based on DOW records, this project is being funded by a State Revolving Fund (SRF) loan. Therefore, this approval is for the technical aspects of the project only. Currently, an environmental review related to this project is pending. **Therefore, you are NOT authorized to advertise for bids at this time. Should you choose to proceed with the bidding and award a contract prior to DOW approval, this will be at your own risk and payment from the SRF program is not guaranteed.**

If you have any questions concerning this project, please contact Mr. Mortaza Tabayeh at 502-782-7086.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Humphries".

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

TH: MT
Enclosures

C: Monarch Engineering Inc.
Taylor County Health Department
Division of Plumbing

Distribution-Water Line Extension
Columbia/Adair Co Water Commission
Facility Requirements

Activity ID No.:APE20170004

Page 1 of 5

PORT0000000007 (Downtown Water System Replacements Ph 1 Section 2) 4350 LF of 8-inch PVC, 700 LF of 8-inch DI, 300 LF of 6-inch PVC, 1200 LF of 4-inch PVC and 660 LF of 3-inch PVC:

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]
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]

Distribution-Water Line Extension
Columbia/Adair Co Water Commission
Facility Requirements

Activity ID No.:APE20170004

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PORT0000000007 (Downtown Water System Replacements Ph 1 Section 2) 4350 LF of 8-inch PVC, 700 LF of 8-inch DI, 300 LF of 6-inch PVC, 1200 LF of 4-inch PVC and 660 LF of 3-inch PVC:

Narrative Requirements:

Condition No.	Condition
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]
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]

Distribution-Water Line Extension
Columbia/Adair Co Water Commission
Facility Requirements

Activity ID No.:APE20170004

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PORT0000000007 (Downtown Water System Replacements Ph 1 Section 2) 4350 LF of 8-inch PVC, 700 LF of 8-inch DI, 300 LF of 6-inch PVC, 1200 LF of 4-inch PVC and 660 LF of 3-inch PVC:

Narrative Requirements:

Condition No.	Condition
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]
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]

Distribution-Water Line Extension
Columbia/Adair Co Water Commission
Facility Requirements

Activity ID No.:APE20170004

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PORT0000000007 (Downtown Water System Replacements Ph 1 Section 2) 4350 LF of 8-inch PVC, 700 LF of 8-inch DI, 300 LF of 6-inch PVC, 1200 LF of 4-inch PVC and 660 LF of 3-inch PVC:

Narrative Requirements:

Condition No.	Condition
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]
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]

Distribution-Water Line Extension

Columbia/Adair Co Water Commission

Facility Requirements

Activity ID No.:APE20170004

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PORT0000000007 (Downtown Water System Replacements Ph 1 Section 2) 4350 LF of 8-inch PVC, 700 LF of 8-inch DI, 300 LF of 6-inch PVC, 1200 LF of 4-inch PVC and 660 LF of 3-inch PVC:

Narrative Requirements:

Condition No.	Condition
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]



TRANSPORTATION CABINET

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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

Columbia/ Adair Utilities
109 Grant Lane
Columbia, KY 42728

Subject: Adair County
KY 80
MP 001-0080-12.1
Permit A08-2015-00198

Dear Sir:

The attached is your approved copy of the 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.
Engineering Support TEBM
District 8- Somerset

8/28/2015

Date

BN/cm
Attachments





Kentucky Transportation Cabinet
Department of Highways
Permits Branch

TC 99-1 (A)
8/2012
Page 1 of 4

APPLICATION FOR ENCROACHMENT PERMIT

Permittee Information		KYTC No. 08-2015-00198	
Name	columbia/adair utilities commission	Permit Information	
Address	109 grant lane	Address	KY HWY 80 Columbia Kentucky
		City	columbia
City	columbia	State	ky Zip 42728
State	ky Zip 42728	County	adair
Phone#	(270) 384-2181	Route No.	KY HWY 80 Mile-Point 0.2-1.0
Contact	Mr. Lennon Stone	Longitude (X)	85 degrees 18' 23.745" W
Phone	(270) 384-2181 Cell	Latitude (Y)	37 degrees 6' 8.8344 N
Email	lenny.stone@caud.net	Information below to be filled out by KYTC	
Contact	Alan Bowman	<input type="checkbox"/> Air Right	<input type="checkbox"/> Entrance
Phone	859.278.5412 Cell 859.319.0369	<input type="checkbox"/> Utilities	<input type="checkbox"/> Other: _____
Email	abowman@hkbell.com	<input type="checkbox"/> Left	<input type="checkbox"/> Right <input type="checkbox"/> X-ing
		Access:	<input type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> by Permit

General Description of Work:

Replacement of existing water line and appurtenance along KY HWY 80 beginning at the intersection of Fortune Street and KY HWY 80 at approximately milepoint 0.2 and continuing along KY HWY 80 for approximately 5500 linear feet ending at the intersection of Lancaster Street and KY HWY 80 at approximately milepoint 1.0. The majority of work will involve in-place replacement of water lines under the existing sidewalks and reforming and pouring new sidewalks. There are several bores and numerous service crossings. The majority of the work will be done along the southern right-of-way; however, there is a small parallel segment of line that will run along the northern right-of-way beginning at Taylor Street and continuing on to Lancaster Street. Detailed plans can be provided upon request.

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

4/23/15

Date

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



Kentucky Transportation Cabinet
Department of Highways
Permits Branch

TC 99-1 (B)
1/2012
Page 1 of 1

ENCROACHMENT PERMIT

KEPTS No.: A08-2015-00198

Permittee: Columbia/ Adair Utilities District

Latitude: 37.092827

Longitude: -85.317006

Completion Date: 1/1/2017

Coordinates provided on the TC 99-1(B) are the approved location for this permit

Indemnities		
Type	Amount Required	Tracking Number
Performance Bond	0	
Payment Bond	0	
Liability Insurance	0	

This permit has been:

APPROVED ☒

DENIED ☐

Conley Moren

Engineer Branch Manager

NAME

TITLE



Conley Moren

8/28/2015

SIGNATURE

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.



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 will be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
 - C. **LIABILITY INSURANCE:** Liability insurance will 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 will 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 agrees 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, and/or 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, and/or other corrective measures must be completed will be specified in the notice.



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APPLICATION FOR ENCROACHMENT PERMIT

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 installation(s) shall be borne by the permittee, its successors and assigns, and/or 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, agrees 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 may and 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.



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APPLICATION FOR ENCROACHMENT PERMIT

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 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, agrees 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. 08-2015-00198

Applicant to parallel KY 80 in Adair County left of mile point 12.100 to 12.17 and right of KY 80 from mile point 12.17 to 12.99 with 8 inch PVC SDR -21 water line under the existing sidewalks as shown on attached plans.

Applicant to bore KY 80 for 12 inch steel encasement to accommodate 6 inch PVC water line at mile points 12.39, 12.78, and 12.86 as per attached plans and typical drawings. Applicant to bore KY 80 for 16 inch steel encasement to accommodate 8 inch PVC water lines at mile points 12.17 and 12.54 as per attached plans and typical drawings.

Sidewalk replacement is to be Class A concrete and match existing width and locations. Concrete entrance pavement and sidewalk shall conform to Kentucky Department of Highways Standard Drawings RPM-150-07, RPM-152-07, Sepia Drawing 028 and 029, see attached.

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. The encasement shall be 42 inches from the lowest point of the ditch line to the top of the encasement.

Underground utility lines parallel to roadway to be placed a minimum of 42 inches from top of pipe to grade and backfilled as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, 2012 edition.

Applicant to be responsible to repair and replace any damaged roadway with matching materials to the satisfaction of the District 8 Permit Engineer.

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

Construction of the road crossings shall not interfere with any construction or maintenance operations of the Transportation Cabinet.

Construction methods or materials that allow voids in the roadway foundations shall not be used.

All work and materials shall meet or exceed the state 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 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 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

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. 08-2015-00198

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.

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II. UTILITIES (Continued)

- ☒ Encasement 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 Fahrenheit).
- ☐ 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

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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:

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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 accomodate 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.

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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:

See attached KY Department of Highways Standard Drawings RPM-150-07, RPM-152-07, Sepia Drawing 028 and 029

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.



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

Columbia Adair Utilities District
PO Box 567
109 Grant Lane
Columbia, KY 42728

Subject: Adair County
KY 2287
MP 001-2287-0.70
Permit: 08-2017-00198

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,

A handwritten signature in black ink, appearing to read "Conley Moren", written over a horizontal line.

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

6/16/2017
Date

TW/cm



An Equal Opportunity Employer M/F/D



Kentucky Transportation Cabinet
Department of Highways
Division of Maintenance
Permits Branch

TC 99-1 (B)
03/2016
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ENCROACHMENT PERMIT

KEPT No.: 08-2017-00198

Permittee: Columbia/ Adair Utilities District

Permit Type / Subtype: Utilities / Water

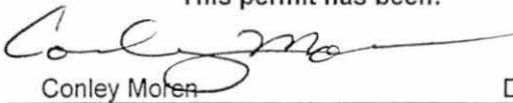
Work Completion Date: 1/1/2018

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 ☒

DENIED ☐



Conley Molen

D8 Engineering Support - TEBM

6/16/2017

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
	Adair - KY 2287	37.098669	-85.313843

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

PERMITEE

Name: Columbia/ Adair Utilities District
Contact Person:
Address: P.O. Box 567 109 Grant Lane
City: Columbia
State: Kentucky
Zip: 42728
Telephone: (270) 384-2181

PROJECT IDENTIFICATION

Permit Number: 08-2017-00198

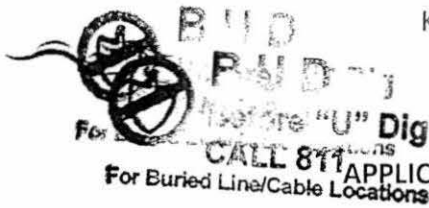
I wish to notify the Department of Highways that the above mentioned permit work and any necessary right-of-way restoration have been completed and are ready for final inspection.

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
	Adair - KY 2287	37.098669	-85.313843



Kentucky Transportation Cabinet
Department of Highways
Permits Branch

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Permittee Information		KYTC No. 08-2017-00198	
Name Columbia-Adair Utilities District		Permit Information	
Address 109 Grant Lane / PO Box 567		Address	
		City	
City Columbia		State Zip	
State Kentucky Zip 42728		County Adair	
Phone# (270) 384-2181		Route No. KY HWY 2287 Mile-Point 0.70	
Contact Lennon Stone		Longitude (X) 85° 18' 46.82" W	
Phone (270) 384-2181 Cell (270) 378-0108		Latitude (Y) 37° 05' 56.87" N	
Email lenny.stone@caud.net		Information below to be filled out by KYTC	
Contact David M. Bowles		<input type="checkbox"/> Air Right <input type="checkbox"/> Entrance	
Phone (502) 839-1310 Cell (502) 604-1208		<input checked="" type="checkbox"/> Utilities <input type="checkbox"/> Other: _____	
Email dbowles@monarchengineering.net			
		<input type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> X-ing	
		Access: <input type="checkbox"/> Full <input type="checkbox"/> Partial <input checked="" type="checkbox"/> by Permit	

General Description of Work:

M.P. 0.70 (Crossing) - Install approximately 50 LF of Bore & Case for 8-Inch PVC SDR 21 water line under KY Highway 2287 (Tutt Street). Casing pipe shall be 16-Inch diameter x 0.281" Steel Casing. (See App's Plan Sheet 2)

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).

Lennon Stone

6-8-17

Signature

Date

This is not a permit unless and until the permittee(s) receives an approved TC 99-1(B) from KYTC. This application will become void if not approved by the cancellation date. The cancellation date will 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 will be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
 - C. **LIABILITY INSURANCE:** Liability insurance will 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 will 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 agrees 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, and/or 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, and/or other corrective measures must be completed will be specified in the notice.



APPLICATION FOR ENCROACHMENT PERMIT

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 installation(s) shall be borne by the permittee, its successors and assigns, and/or 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, agrees 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 may and 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.



APPLICATION FOR ENCROACHMENT PERMIT

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 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, agrees 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 08-2017-000198

Applicant to bore and encase at mp 0.70 on KY 2287 in Adair County with 50 feet of 16 inch steel casing for a 8 inch SDR 21 water line as shown on attached plans and encroachment terms.

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 2287.

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. 08-2017-00198

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. _____

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II. UTILITIES (Continued)

- ☒ Encasement 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 Fahrenheit).
- ☐ 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 Fahrenheit, 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 accommodate 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.

Permit No. _____

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. _____

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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.



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

Columbia Adair Utilities District
PO Box 567
109 Grant Lane
Columbia, KY 42728

Subject: Adair County
KY 80
MP 001-0080-12.167
Permit: 08-2017-00199

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,

A handwritten signature in black ink, appearing to read "Conley Moren", with a long horizontal flourish extending to the right.

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

6/16/2017
Date

TW/cm





Kentucky Transportation Cabinet
Department of Highways
Division of Maintenance
Permits Branch

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03/2016
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ENCROACHMENT PERMIT

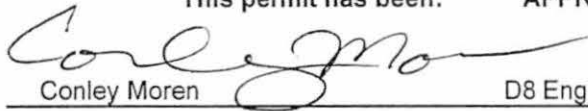
KEPT No.: 08-2017-00199
Permittee: Columbia/ Adair Utilities District
Permit Type / Subtype: Utilities / Water
Work Completion Date: 1/1/2019

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 ☒

DENIED ☐



Conley Moren

D8 Engineering Support - TEBM

6/16/2017

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
	Adair - KY 80	37.093741	-85.316675

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

PERMITEE

Name: Columbia/ Adair Utilities District
Contact Person:
Address: P.O. Box 567 109 Grant Lane
City: Columbia
State: Kentucky
Zip: 42728
Telephone: (270) 384-2181

PROJECT IDENTIFICATION

Permit Number: 08-2017-00199

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
	Adair - KY 80	37.093741	-85.316675



Kentucky Transportation Cabinet
Department of Highways
Permits Branch

TC 99-1 (A)
8/2012
Page 1 of 4

APPLICATION FOR ENCROACHMENT PERMIT

Permittee Information		KYTC No.	
Name Columbia-Adair Utilities District		Permit Information	
Address 109 Grant Lane / PO Box 567		Address	
		City	
City Columbia		State Zip	
State Kentucky Zip 42728		County Adair	
Phone# (270) 384-2181		Route No. KY HWY 80 Mile-Point 12.167 to 12.37	
Contact Lennon Stone		Longitude (X) 85° 19' 00.46" W	
Phone (270) 384-2181 Cell (270) 378-0108		Latitude (Y) 37° 05' 37.28" N	
Email lenny.stone@caud.net		<i>Information below to be filled out by KYTC</i>	
Contact David M. Bowles		<input type="checkbox"/> Air Right <input type="checkbox"/> Entrance <input checked="" type="checkbox"/> Utilities <input type="checkbox"/> Other: _____	
Phone (502) 839-1310 Cell (502) 604-1208			
Email dbowles@monarchengineering.net		<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> X-ing Access: <input type="checkbox"/> Full <input type="checkbox"/> Partial <input checked="" type="checkbox"/> by Permit	

General Description of Work:

M.P. 12.167 to M.P. 12.37 (Left) - Install approximately 1,200 LF of 4-Inch PVC SDR 21 water line along the left hand side of Kentucky Highway 61. (See App's Plan Sheet 3 & 4)

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).

Lennon Stone 6-8-17
Signature Date

This is not a permit unless and until the permittee(s) receives an approved TC 99-1(B) from KYTC. This application will become void if not approved by the cancellation date. The cancellation date will 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 will be required of the permittee to ensure payment of liquidated damages assessed to the permittee.
 - C. **LIABILITY INSURANCE:** Liability insurance will 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 will 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 agrees 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, and/or 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, and/or other corrective measures must be completed will be specified in the notice.



Kentucky Transportation Cabinet
Department of Highways
Permits Branch

TC 99-1 (A)
8/2012
Page 3 of 4

APPLICATION FOR ENCROACHMENT PERMIT

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 installation(s) shall be borne by the permittee, its successors and assigns, and/or 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, agrees 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 may and 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.



APPLICATION FOR ENCROACHMENT PERMIT

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 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, agrees 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. 08-2017-00199

Applicant to parallel left of mp. 12.167 to mp. 12.37 with a 4 inch SDR 21 PVC water line on KY 80 in Adair County as shown on attached plans and encroachment terms.

Locations where utility line crosses paved or concrete driveways, the utility line shall be bored to prevent disturbance to the driving surface unless prior written approval is obtained from the property owners.

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.

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 operations of the Kentucky Transportation Cabinet on KY 80.

All work and materials shall meet or exceed the 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.

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.

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.



ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

Permit No. 08-2017-00149

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 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 Fahrenheit).
- ☐ 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 Fahrenheit, 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 accommodate 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.

Permit No. _____

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

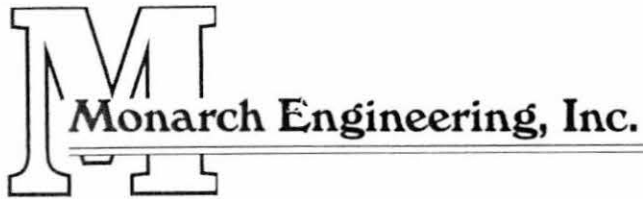
- ☐ The replacement fence shall be a height of at least 48 inches and shall be of sufficient density to contain all animals (if applicable).
- ☐ The replacement fence shall be a minimum of 1 foot and a maximum of 2 feet outside the right-of-way line.
- ☐ The fence materials and design shall meet accepted 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.

**COLUMBIA/ADAIR UTILITIES DISTRICT
ESTIMATED ANNUAL COST OF SYSTEM OPERATION
FOLLOWING COMPLETION OF THE
DOWNTOWN WATER SYSTEM REPLACEMENTS PHASE 1-SECTION 2:
BURKESVILLE STREET AREA
PROJECTED FOR THE 2019 OPERATING YEAR**

SALARY & WAGES	\$685,000.00
EMPLOYEE BENEFITS	251,000.00
UTILITIES	243,000.00
MATERIALS AND SUPPLIES	334,000.00
CONTRACTED SERVICES	62,000.00
VEHICLE & EQUIPMENT EXPENSES	90,000.00
INSURANCE	92,000.00
OFFICE EXPENSES	34,000.00
DIRECTORS FEES	117,000.00
BAD DEBT EXPENSE	30,000.00
OTHER OPERATING EXPENSES	<u>322,000.00</u>
TOTAL OPERATING EXPENSES	\$2,260,000.00



July 28, 2017

Mr. Lenny Stone, Manager
Columbia Adair Utilities District
P.O. Box 567
Columbia, KY 42728

Re: Burkesville Street Water System, Improvements

Dear Mr. Stone:

On July 27, 2017, bids were received by the Columbia Adair Utilities District for the Burkesville Street Water System Improvements. Three bids were submitted and the lowest bid was by Stotts Construction Co., Inc., in the amount of \$1,104,750.00. A bid tabulation showing all the bids received including pricing for all bid items is attached.

Based on the bids submitted by Stotts, please find attached a Final Budget which includes the construction amount and engineering design along with construction inspection based on the U.S. Department of Agriculture's schedule for engineering fees. The sum of these three items leaves an amount of \$87,245.85 that would be allocated for contingency which would be 7.90 percent of the construction cost proposal. Normally, the contingency amount is initially budgeted to be 10 percent of the construction amount but in this case where the installation of the work and the summation of the unit price material is to be installed in a linear route, a running total will be kept up to date, and in the event that the contingency funds are to be expended before the entire project is completed, the scope of the project will be shortened to comply with the funds available.

Therefore, based on the competitiveness of the bids and the need to improve the water system in the Burkesville Street area, we recommend that the Utilities District consider awarding a contract to Stotts Construction Co. Inc., in the amount of \$1,104,750.00. This recommendation is contingent upon approval from the Kentucky Infrastructure Authority and the Kentucky Public Service Commission.

Should you need additional information, please advise.

Sincerely,

A handwritten signature in cursive script, appearing to read 'David M. Bowles', is written over a horizontal line.

David M. Bowles, P.E.

/dmb

BID TABULATIONS
COLUMBIA-ADAIR UTILITIES DISTRICT
DOWNTOWN WATER SYSTEM REPLACEMENTS
PHASE 1 - SECTION 2: BURKESVILLE STREET AREA
ADAIR COUNTY, KENTUCKY
BID DATE: JULY 27, 2017 @ 11:00 A.M. LOCAL TIME

			Stotts Construction Co., Inc. P.O. Box 1689 Columbia, KY 42728		Twin States Utilities P.O. Box 14 Mt. Hermon, KY 42157		Cumberland Pipeline, LLC 4129 Highway 379 Russell Springs, KY 42642	
ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	BASE BID CONTRACT							
1	8-Inch Ductile Iron CL350 Water Line	700 LF	\$95.00	\$66,500.00	\$78.00	\$54,600.00	\$113.87	\$79,709.00
2	8-Inch PVC SDR 21 Water Line	4,600 LF	70.00	322,000.00	65.00	299,000.00	101.69	467,774.00
3	6-Inch PVC SDR 21 Water Line	560 LF	55.00	30,800.00	64.00	35,840.00	95.38	53,412.80
4	4-Inch PVC SDR 21 Water Line	1,200 LF	52.00	62,400.00	62.00	74,400.00	93.30	111,960.00
5	3-Inch PVC SDR 21 Water Line	660 LF	40.00	26,400.00	62.00	40,920.00	77.87	51,394.20
6	2-Inch PVC SDR 21 Water Line	100 LF	37.00	3,700.00	61.00	6,100.00	74.72	7,472.00
7	1-Inch PVC SDR 21 Water Line	370 LF	35.00	12,950.00	61.00	22,570.00	40.89	15,129.30
8	Bore & Case for 8-Inch Water Line	140 LF	305.00	42,700.00	180.00	25,200.00	412.40	57,736.00
9	Bore & Case for 6-Inch Water Line	120 LF	240.00	28,800.00	160.00	19,200.00	362.65	43,518.00
10	8-Inch Gate Valve	13 EA	2,200.00	28,600.00	2,200.00	28,600.00	1,317.00	17,121.00
11	6-Inch Gate Valve	8 EA	1,800.00	14,400.00	1,800.00	14,400.00	1,001.00	8,008.00
12	4-Inch Gate Valve	2 EA	1,600.00	3,200.00	1,500.00	3,000.00	809.00	1,618.00
13	2-Inch Gate Valve	1 EA	1,200.00	1,200.00	1,300.00	1,300.00	591.00	591.00
14	3-Way Flush Hydrant	8 EA	3,700.00	29,600.00	4,200.00	33,600.00	4,796.00	38,368.00
15	3-Inch Blowoff Assembly	2 EA	1,500.00	3,000.00	1,600.00	3,200.00	1,742.00	3,484.00
16	8-Inch x 8-Inch Connection	2 EA	3,600.00	7,200.00	3,600.00	7,200.00	3,388.00	6,776.00
17	8-Inch x 6-Inch Connection	6 EA	3,600.00	21,600.00	3,500.00	21,000.00	2,978.00	17,868.00
18	8-Inch x 2-Inch Connection	1 EA	3,200.00	3,200.00	2,500.00	2,500.00	2,398.00	2,398.00
19	6-Inch x 3-Inch Connection	1 EA	3,200.00	3,200.00	2,500.00	2,500.00	2,583.00	2,583.00
20	Meter Setting & Reconnection	75 EA	1,800.00	135,000.00	1,600.00	120,000.00	1,260.00	94,500.00
	TOTAL BASE BID Continued							

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00A.M. LOCAL TIME, THURSDAY, JULY 27, 2017 AT THE COLUMBIA-ADAIR UTILITIES DISTRICT.

BY:

David M. Bowles
 David M. Bowles
 BOWLES
 15483
 LICENSED
 PROFESSIONAL ENGINEER

7/28/17
 DATE

BID TABULATIONS
COLUMBIA-ADAIR UTILITIES DISTRICT
DOWNTOWN WATER SYSTEM REPLACEMENTS
PHASE 1 - SECTION 2: BURKESVILLE STREET AREA
ADAIR COUNTY, KENTUCKY
BID DATE: JULY 27, 2017 @ 11:00 A.M. LOCAL TIME

Stotts Construction Co., Inc.
P.O. Box 1689
Columbia, KY 42728

Twin States Utilities
P.O. Box 14
Mt. Hermon, KY 42157

Cumberland Pipeline, LLC
4129 Highway 379
Russell Springs, KY 42642

ITEM NO.	DESCRIPTION	QUANTITY	PRICE	COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	BASE BID Continued							
21	1-Inch Meter Setting & Reconnection	1 EA	\$7,000.00	\$7,000.00	\$4,600.00	\$4,600.00	\$4,137.00	\$4,137.00
22	1 1/2-Inch Meter Setting & Reconnection	2 EA	11,000.00	22,000.00	6,300.00	12,600.00	6,475.00	12,950.00
23	2-Inch Meter Setting & Reconnection	2 EA	14,000.00	28,000.00	9,000.00	18,000.00	10,625.00	21,250.00
24	3/4-Inch Copper Service Tubing	3,750 LF	20.00	75,000.00	28.00	105,000.00	60.72	227,700.00
25	1-Inch Copper Service Tubing	100 LF	23.00	2,300.00	29.00	2,900.00	41.72	4,172.00
26	1 1/2-Inch Copper Service Tubing	200 LF	25.00	5,000.00	32.00	6,400.00	62.17	12,434.00
27	8-Inch Nitrile Gasket	40 EA	100.00	4,000.00	100.00	4,000.00	81.00	3,240.00
28	Concrete Sidewalk Replacement	30,000 SF	2.00	60,000.00	7.00	210,000.00	12.50	375,000.00
29	Full Width Pavement Replacement	2,000 SF	20.00	40,000.00	50.00	100,000.00	45.00	90,000.00
30	Patch Pavement Replacement	5,000 SF	3.00	15,000.00	10.00	50,000.00	30.00	150,000.00
	TOTAL BASE BID			\$1,104,750.00		\$1,328,630.00		\$1,982,303.30

**FINAL BUDGET
DOWNTOWN WATER SYSTEM REPLACEMENT
PHASE 1 - SECTION 2: BURKESVILLE STREET
COLUMBIA/ADAIR UTILITIES DISTRICT
JULY 27, 2017**

PROJECT COSTS

DEVELOPMENT	\$1,104,750.00
CONTINGENCY	87,245.85
ENGINEERING DESIGN	96,334.20
ENGINEERING INSPECTION	<u>60,761.25</u>

TOTAL PROJECT COSTS	\$1,349,091.30
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PROJECT FINANCING

KENTUCKY INFRASTRUCTURE AUTHORITY (KIA)	<u>\$1,349,091.30</u>
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TOTAL PROJECT FINANCING	\$1,349,091.30
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KENTUCKY INFRASTRUCTURE AUTHORITY

Capital Center Complex
1024 Capital Center Drive, Suite 340
Frankfort, Kentucky 40601
(502) 573-0260
(502) 573-0157 (fax)
kia.ky.gov

Matthew G. Bevin
Governor

July 21, 2016

Columbia/Adair Utilities District
Attn: Wid Harris, Chairman
P.O. Box 567
Columbia, KY 42728

RE: Columbia/Adair Utilities District
Downtown Water System Improvements Project
F12-04, WX21001024

Dear Chairman Harris:

Thank you for your interest in the Drinking Water State Revolving Fund program with the Kentucky Infrastructure Authority (KIA). It is our intent to provide the best possible service to accommodate your infrastructure financing needs, and in turn benefit the citizens of Kentucky. This letter explains KIA's position regarding the above-mentioned project, in particular, as it relates to the immediate plans of the Columbia/Adair Utilities District (District) moving forward.

Based upon facts presented to KIA in a meeting with District representatives on July 21, 2016, the District expressed interest in proceeding with design and construction of the Highway 704 Waterline Replacement and Loop project prior to completing the Burkesville Street Replacement project. Due to the immediate need in the Highway 704 area, KIA concurs that this segment of work may be completed as part of this loan through a competitive bid process. Any remaining loan funds may be directed back to the Burkesville Street Replacement project, and also must be competitively bid. (Previous change order approval #3 for \$994,500 will not be reinstated.) Please update the Project Profile for WX21001024 to include the Highway 704 project description, mapping, budget, and timeline.

We value your interest in both the drinking water and clean water SRF programs and hope that we can be of service to you now and in the future. Please do not hesitate to contact me if you have any questions regarding the contents of this letter.

Sincerely,

A handwritten signature in blue ink that reads "Sandra K. Dunahoo".

Sandra K. Dunahoo, Commissioner

COLUMBIA
QUADRANGLE

767

Sewage
Disposal

SCALE: 1" = 1,000'

Columbia
(BM 752)

TAYLOR STREET
REPLACE APPROXIMATELY 300
LF OF 6-INCH AC WATER
LINE WITH 6-INCH PVC SDR
21 WATER LINE AND INSTALL
APPROXIMATELY 320 LF OF
3-INCH WATER LINE.
LAT: 37° 05' 49.35" N
LONG: 85° 18' 56.35" W

BM
714

KY HWY 80/BURKESVILLE ST
INSTALL 1,200 LF OF 4-INCH
PVC SDR 21 WATER LINE.
LAT: 37° 05' 47.73" N
LONG: 85° 18' 54.07" W

CONNECT NEW 8-INCH
WATER LINE TO EXISTING
8-INCH WATER LINE.
LAT: 37° 06' 05.66" N
LONG: 85° 18' 23.25" W

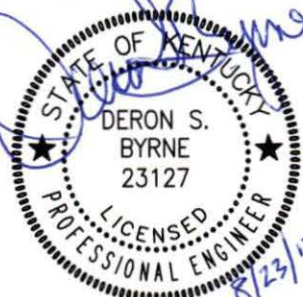
LANCASTER STREET
INSTALL 340 LF OF 3-INCH
PVC SDR 21 WATER LINE.
LAT: 37° 05' 39.56" N
LONG: 85° 19' 03.82" W

EXISTING 6-INCH
WATER LINE

KY HWY 80/BURKESVILLE STREET
REPLACE APPROXIMATELY 3,650 LF OF
6-INCH AC WATER LINE AND 1,400 LF
OF 4-INCH AC WATER LINE WITH 5,050
LF OF NEW 8-INCH WATER LINE.

BM
683

61
80



KY HWY 80/BURKESVILLE ST.
COLUMBIA/ADAIR COUNTY
UTILITIES DISTRICT



Monarch Engineering, Inc.

556 Carlton Drive
Lawrenceburg, KY



CITY OF COLUMBIA, KENTUCKY



CITY OF COLUMBIA CORPORATE LIMITS

KENTUCKY HIGHWAY 61 SOUTH AREA
a.k.a. KY HWY 80 / BURKESVILLE STREET

DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER
8/23/17

STATE OF KENTUCKY
DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

COLUMBIA-ADAIR UTILITIES COMMISSION
DOWNTOWN WATER SYSTEM - PHASE II
PROJECT LOCATION MAP
Monarch Engineering, Inc.
556 Carlton Drive
Lawrenceburg, KY