

# Rubin & Hays

ATTORNEYS AT LAW

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

February 3, 2017

RECEIVED  
FEB 6 2017  
Public Service  
Commission

Dr. Talina Mathews  
Executive Director  
Public Service Commission  
P.O. Box 615  
Frankfort, Kentucky 40602

Case No. 2017-00064

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

Dear Dr. Mathews:

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:jlm  
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.**

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](mailto: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](mailto: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](mailto:wrjones@rubinhays.com)

Phone: (502) 569-7534  
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RECEIVED

COMMONWEALTH OF KENTUCKY

FEB 6 2017

BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION

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 - 00064  
 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](mailto: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 2015 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 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 a portion of a \$4,000,000 Federally Assisted Drinking Water Revolving Loan Fund loan (Fund F) (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 as 2 base bids, one bid using 6-inch piping and one bid using 8-inch piping. The District has elected to use the 8-inch option. Certified copies of the bid tabulations for the Project and the Engineer's letter as to explanation of bid award 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](mailto: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  
[wjones@rubinhays.com](mailto:wjones@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 30 day of January, 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 30 day of January, 2017.

My Commission expires: 4-22-19.

Lennon Stone  
Notary Public

Notary ID#: 532499

**STATEMENT OF PUBLIC NECESSITY OF PROJECT**  
**COLUMBIA-ADAIR UTILITIES DISTRICT**  
**WATER SYSTEM EXTENSIONS & IMPROVEMENTS:**  
**FAIRPLAY AREA WATER LINE IMPROVEMENTS**

The project entails the installation of approximately 29,620 LF of 8-inch water line to parallel with an existing 4-inch water line in the Fairplay Community from the intersection of Kentucky Highway 61 and Kentucky Highway 768 (Sparksville Road) to the intersection of Kentucky Highway 768 (Sparksville Road) and Kentucky Highway 704.

The Fairplay community lies in the southern portion of Adair County and it is served by a 4-inch waterline that was constructed in the early 1980's. At that time there was approximately 80 water meters that were set and over the past 35 years the population in the Fairplay service area has grown resulting in the presence of over 450 water meters. As a result of the growth in this community the water system has reached the point where it is unable to consistently supply the necessary amount of water on a continuous basis to this service area. Data obtained by the Columbia Adair Utility District (District) reveals that system pressures drop during peak demand periods to a level just above the regulatory standard. In order to return to a safe level of operation the District is planning to supplement a portion of the existing 46,000 feet of 4-inch waterline with a new 8-inch waterline that will parallel the existing waterline. This new waterline will include the necessary valves and blowoffs required to operate in conjunction with the existing 4-inch waterline.



## **PROJECT DESCRIPTION**

### **COLUMBIA-ADAIR UTILITIES DISTRICT WATER SYSTEM EXTENSIONS & IMPROVEMENTS: FAIRPLAY AREA WATER LINE IMPROVEMENTS**

The Columbia-Adair Utilities District is currently pursuing improvements to its water system within Adair County near the community of Fairplay. 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 29,620 LF of 8-inch water line to parallel with an existing 4-inch water line in the Fairplay Community from the intersection of Kentucky Highway 61 and Kentucky Highway 768 (Sparksville Road) to the intersection of Kentucky Highway 768 (Sparksville Road) and Kentucky Highway 704.

The total construction cost as bid is \$479,489.00, with a final project budget of \$613,266.43. 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

December 20, 2016

Mr. Lennon Stone  
Columbia/Adair Utilities District  
109 Grant Ln  
Columbia, KY 42728

RE: Water System Extension & Improvements  
Fairplay Area WL Improvements  
Columbia/Adair Utilities District--33767  
F12-04  
Activity ID: FGL20120010

Dear Mr. Stone:

The Kentucky Division of Water (DOW) has reviewed for completeness and adequacy the construction plans and specifications submitted for the above referenced contract(s). The DOW has granted technical approval on October 24, 2016. These plans consist of approximately 29,620 LF of 6-inch of PVC water line. The approval conditions and a list of eligible/ineligible items are enclosed. Please note that ineligible items cannot be funded using State Revolving Fund (SRF) monies, and must be paid by other funding sources.

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

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

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

Water System Extensions and Improvements  
Fairplay Area WL Improvements  
F12-04  
Columbia/Adair Utilities District--33767  
December 20, 2016  
Page 2 of 3

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

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

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

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

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

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

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

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

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

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

Water System Extensions and Improvements  
Fairplay Area WL Improvements  
F12-04  
Columbia/Adair Utilities District--33767  
December 20, 2016  
Page 3 of 3

agreement. If we can be of further assistance, please call Mr. Mortaza Tabayeh, Project Engineer, at 502-782-7086.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Humphries', written in a cursive style.

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

TH: MT

Enclosures

Eligible List, Ineligible List, Approval Conditions  
Project Review and Cost Summary Form

C: Monarch Engineering Inc.  
Kentucky Infrastructure Authority  
Cabinet for Economic Development

**SRF ELIGIBLE ITEMS:**

Contract No. (2) No eligible items determined

**SRF INELIGIBLE ITEMS:**

Contract No. (2) No ineligible items determined

**APPROVAL CONDITIONS:**

1. Provide Clear Site Certificates
2. Complete and return the Project Review and Cost Summary Form.



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  
109 Grant Lane  
Columbia, KY 42728

Subject: Adair County  
KY 704  
RS 001-0704-7.03  
Permit 08-2016-00222

Dear Sir:

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

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

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

Yours truly,

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

10/24/2016  
Date

TW/cm



An Equal Opportunity Employer MF/D



Kentucky Transportation Cabinet  
 Department of Highways  
 Division of Maintenance  
 Permits Branch

TC 99-1 (B)  
 03/2016  
 Page 1 of 1

**ENCROACHMENT PERMIT**

**KEPT No.:** 08-2016-00222  
**Permittee:** Columbia/ Adair Utilities Dist  
**Permit Type / Subtype:** Utilities / Water  
**Work Completion Date:** 12/1/2017

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

This permit has been: APPROVED  DENIED

*Conley Moren*  
 Conley Moren DB Engineering Support - TEBM 10/24/2016  
 SIGNATURE TITLE DATE

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

LOCATION(S)			
Description	County - Route	Latitude	Longitude
	Adair - KY 704	37.002614	-85.309400

KY Transportation Cabinet – District 8  
Permit Number 08-2016-00222

Applicant to bore and encase at mp 7.03 on KY 704 in Adair County with 50 feet of 12 inch steel casing for a 6 inch PVC water line as shown on applicants plans and Typical Highway Crossing Detail.

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 704.

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

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

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

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

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

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

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



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

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

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



## ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

Permit No. 08-2016-00222

### 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](http://www.KEPSC.org)



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<sup>1/2</sup> 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.



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  
109 Grant Lane  
Columbia, KY 42728

Subject: Adair County  
KY 768  
RS 001-0768-19.27  
Permit 08-2016-00221

Dear Sir:

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

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

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

Yours truly,

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

10/24/2016

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  
 Page 1 of 1

**ENCROACHMENT PERMIT**

KEPT No.: 08-2016-00221

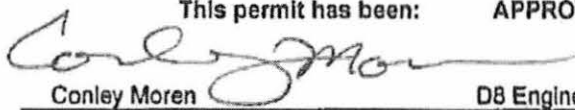
Permittee: Columbia/ Adair Utilities Dist

Permit Type / Subtype: Utilities / Water

Work Completion Date: 12/1/2017

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

This permit has been: APPROVED  DENIED

  
 Conley Moren DB Engineering Support - TEBM 10/24/2016  
 SIGNATURE TITLE DATE

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

LOCATION(S)			
Description	County - Route	Latitude	Longitude
	Adair - KY 768	37.009703	-85.370538

KY Transportation Cabinet – District 8  
Permit Number 08-2016-00221

Applicant to bore and encase at mp 19.27 and mp 19.36 on KY 768 in Adair County with 50 feet of 12 inch steel casing for a 6 inch PVC water line and a 50 foot bore and encase at mp. 21.42 with a 10 inch steel casing for a 4 inch PVC water line as shown on applicants plans. Applicant to parallel KY 768 left from mp 21.01 to mp 21.05 and mp 21.07 to mp 21.12 and mp 21.94 to mp 22.07 with a 6 inch PVC water line.

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.

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 768.

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

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

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

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

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

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

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

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

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

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



## ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

Permit No. 08-2016-00221

### 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](http://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:

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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<sup>1</sup>/<sub>2</sub> 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:

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COLUMBIA / ADAIR UTILITIES DISTRICT  
CASH FLOW ANALYSIS - WATER SYSTEM

	2010(1)	2011 (1) (2)	2012 (1) (3)	2013 (1) (4)	2014 (1)	2015	2016	2017							
<b>Operating Revenues</b>															
Charges for Services	2,175,021	2,751,314	26.5%	3,513,798	27.7%	3,478,936	-1.0%	3,602,407	3.5%	3,638,431	1.0%	3,674,815	1.0%	3,711,564	1.0%
Service Charges and Other	191,085	135,588		148,293		153,199		169,774		140,000		140,000		140,000	
<b>Total Revenues</b>	<b>2,366,106</b>	<b>2,886,902</b>		<b>3,662,091</b>		<b>3,632,135</b>		<b>3,772,181</b>		<b>3,778,431</b>		<b>3,814,815</b>		<b>3,851,564</b>	
<b>Operating Expenses</b>															
Operating Expenses	2,111,937	2,193,103	3.8%	2,350,660	7.2%	2,240,772	-4.7%	2,224,282	-0.7%	2,246,525	1.0%	2,268,990	1.0%	2,291,680	1.0%
Depreciation	624,893	714,744	14.4%	756,699	5.9%	857,247	13.3%	940,220	9.7%	1,046,456	11.3%	1,151,102	10.0%	1,266,212	10.0%
Replacement Reserve															
<b>Total Expenses</b>	<b>2,736,830</b>	<b>2,907,847</b>		<b>3,107,359</b>		<b>3,098,019</b>		<b>3,164,502</b>		<b>3,292,981</b>		<b>3,420,092</b>		<b>3,557,892</b>	
<b>Non-Operating Income</b>	<b>-370,724</b>	<b>-20,945</b>		<b>554,732</b>		<b>534,116</b>		<b>607,679</b>		<b>485,450</b>		<b>394,723</b>		<b>293,671</b>	
<b>Non-Operating Income &amp; Expenses</b>															
Interest Income	3,512	3,197		3,725		1,999		1,995		5,000		5,000		5,000	
Other	13,783	29,657		981		610		114,295		10,000		10,000		10,000	
<b>Total Non-Operating Income &amp; Expenses</b>	<b>17,295</b>	<b>32,854</b>		<b>4,706</b>		<b>2,609</b>		<b>116,290</b>		<b>15,000</b>		<b>15,000</b>		<b>15,000</b>	
<b>Add Non-Cash Expense</b>															
Depreciation	624,893	714,744		756,699		857,247		940,220		1,046,456		1,151,102		1,266,212	
<b>Cash Available for Debt Service</b>	<b>271,464</b>	<b>726,653</b>		<b>1,316,137</b>		<b>1,393,972</b>		<b>1,664,189</b>		<b>1,546,906</b>		<b>1,560,825</b>		<b>1,574,884</b>	
<b>Debt Service</b>															
District Principal	157,859	177,483		273,934		392,352		510,364		589,805		525,122		540,529	
District Interest	280,708	279,001		304,321		349,959		393,732		379,744		362,299		330,630	
Water Plant Principal & Interest	0	0		324,463		635,940		648,560		650,000		650,000		650,000	
<b>Total Debt Service</b>	<b>438,567</b>	<b>456,484</b>		<b>902,718</b>		<b>1,378,251</b>		<b>1,552,656</b>		<b>1,619,549</b>		<b>1,537,421</b>		<b>1,521,159</b>	
<b>Debt Coverage Ratio</b>	<b>N/A</b>	<b>1.6</b>		<b>1.5</b>		<b>1.0</b>		<b>1.1</b>		<b>N/A</b>		<b>1.0</b>		<b>1.0</b>	
<b>Cash Flow</b>	<b>-167,103</b>	<b>270,169</b>		<b>413,419</b>		<b>15,721</b>		<b>111,533</b>		<b>-72,643</b>		<b>23,404</b>		<b>53,725</b>	

(1) Taken from ACWD Audit

(2) Includes City of Columbia

(3) Rate Increase Effective March 2012

(4) Debt Service based on projected P & I and does not consider the refinance

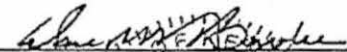
MONARCH ENGINEERING, INC.  
 556 Carlton Drive  
 Lawrenceburg, KY 40342  
 Phone (502) 839-1310  
 Fax (502) 839-1373

**BID TABULATIONS**  
**COLUMBIA-ADAIR UTILITIES DISTRICT**  
**WATER SYSTEM EXTENSIONS & IMPROVEMENTS:**  
**FAIRPLAY AREA WATER LINE IMPROVEMENTS**  
**ADAIR COUNTY, KENTUCKY**  
**BID DATE: JANUARY 5, 2017 @ 11:00 A.M. LOCAL TIME**

ITEM NO.	DESCRIPTION	QUANTITY	Stotts Construction Co., Inc. P.O. Box 1689 Columbia, KY 42728		Cumberland Pipeline, LLC 4129 Highway 379 Russell Springs, KY 42642		Horsley Construction, Inc. 368 Hagan Dennis Lane Hudson, KY 40145	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	<b>BASE BID NO. 1</b>							
1	6-Inch PVC SDR 17 Water Line	29,620 LF	\$8.50	\$251,770.00	\$10.25	\$303,605.00	\$11.30	\$334,706.00
2	Bore & Case for 6-Inch Water Line	650 LF	90.00	58,500.00	121.94	79,261.00	80.00	52,000.00
3	Open Cut & Case for 6-Inch Water Line	50 LF	40.00	2,000.00	36.93	1,846.50	60.00	3,000.00
4	Creek Crossing for 6-Inch Water Line	40 LF	30.00	1,200.00	84.62	3,384.80	70.00	2,800.00
5	6-Inch Gate Valve	11 EA	1,125.00	12,375.00	850.00	9,350.00	1,080.00	11,880.00
6	4-Inch Gate Valve	4 EA	950.00	3,800.00	721.00	2,884.00	800.00	3,200.00
7	Underground Flush Hydrant	5 EA	3,100.00	15,500.00	1,848.00	9,240.00	1,600.00	8,000.00
8	Air Release Valve	9 EA	785.00	7,065.00	1,270.00	11,430.00	1,100.00	9,900.00
9	Connection	3 EA	700.00	2,100.00	1,163.00	3,489.00	1,000.00	3,000.00
10	Master Meter	1 LS	24,000.00	24,000.00	20,394.00	20,394.00	20,000.00	20,000.00
11	Tree Removal	4,100 LF	0.10	410.00	2.44	10,004.00	3.00	12,300.00
	<b>TOTAL BASE BID NO. 1</b>			<b>\$378,720.00</b>		<b>\$454,888.30</b>		<b>\$460,786.00</b>

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00A.M. LOCAL TIME, THURSDAY, JANUARY 5, 2017 AT THE COLUMBIA-ADAIR UTILITIES DISTRICT.

BY:





1/6/17  
DATE

MONARCH ENGINEERING, INC.

556 Carlton Drive

Lawrenceburg, KY 40342

Phone (502) 839-1310

Fax (502) 839-1373

**BID TABULATIONS**  
**COLUMBIA-ADAIR UTILITIES DISTRICT**  
**WATER SYSTEM EXTENSIONS & IMPROVEMENTS:**  
**FAIRPLAY AREA WATER LINE IMPROVEMENTS**  
**ADAIR COUNTY, KENTUCKY**  
**BID DATE: JANUARY 5, 2017 @ 11:00 A.M. LOCAL TIME**

ITEM NO.	DESCRIPTION	QUANTITY	Twin States Utilities, Inc. P.O. Box 14 Mt. Hermon, KY 42157		United Pipeline, Inc. 150 Hill Road Tompkinsville, KY 42167		Hubert Excavating, LLC 2590 Bondville Road Salvisa, KY 40372	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
<b>BASE BID NO. 1</b>								
1	6-Inch PVC SDR 17 Water Line	29,620 LF	\$11.30	\$334,706.00	\$13.50	\$399,870.00	\$16.51	\$489,026.20
2	Bore & Case for 6-Inch Water Line	650 LF	80.00	52,000.00	140.00	91,000.00	155.00	100,750.00
3	Open Cut & Case for 6-Inch Water Line	50 LF	80.00	4,000.00	115.00	5,750.00	75.00	3,750.00
4	Creek Crossing for 6-Inch Water Line	40 LF	100.00	4,000.00	100.00	4,000.00	160.00	6,400.00
5	6-Inch Gate Valve	11 EA	925.00	10,175.00	1,200.00	13,200.00	1,175.00	12,925.00
6	4-Inch Gate Valve	4 EA	740.00	2,960.00	1,000.00	4,000.00	1,000.00	4,000.00
7	Underground Flush Hydrant	5 EA	1,400.00	7,000.00	2,000.00	10,000.00	1,675.00	8,375.00
8	Air Release Valve	9 EA	1,000.00	9,000.00	1,800.00	16,200.00	1,225.00	11,025.00
9	Connection	3 EA	2,400.00	7,200.00	2,000.00	6,000.00	1,450.00	4,350.00
10	Master Meter	1 LS	25,000.00	25,000.00	20,000.00	20,000.00	22,898.80	22,898.80
11	Tree Removal	4,100 LF	10.00	41,000.00	2.00	8,200.00	15.00	61,500.00
<b>TOTAL BASE BID NO. 1</b>				<b>\$497,041.00</b>		<b>\$578,220.00</b>		<b>\$725,000.00</b>

MONARCH ENGINEERING, INC.

556 Carlton Drive

Lawrenceburg, KY 40342

Phone (502) 839-1310

Fax (502) 839-1373

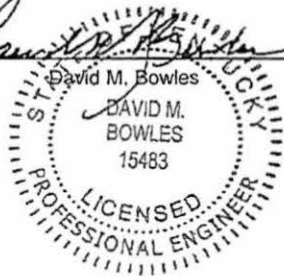
**BID TABULATIONS**  
**COLUMBIA-ADAIR UTILITIES DISTRICT**  
**WATER SYSTEM EXTENSIONS & IMPROVEMENTS:**  
**FAIRPLAY AREA WATER LINE IMPROVEMENTS**  
**ADAIR COUNTY, KENTUCKY**  
**BID DATE: JANUARY 5, 2017 @ 11:00 A.M. LOCAL TIME**

ITEM NO.	DESCRIPTION	QUANTITY	Stotts Construction Co., Inc. P.O. Box 1689 Columbia, KY 42728		Horsley Construction, Inc. 368 Hagan Dennis Lane Hudson, KY 40145		Cumberland Pipeline, LLC 4129 Highway 379 Russell Springs, KY 42642	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
<b>BASE BID NO. 2</b>								
1	8-Inch PVC SDR 17 Water Line	29,620 LF	\$11.45	\$339,149.00	\$14.25	\$422,085.00	\$12.95	\$383,579.00
2	Bore & Case for 8-Inch Water Line	650 LF	100.00	65,000.00	90.00	58,500.00	157.60	102,440.00
3	Open Cut & Case for 8-Inch Water Line	50 LF	40.00	2,000.00	70.00	3,500.00	43.79	2,189.50
4	Creek Crossing for 8-Inch Water Line	40 LF	30.00	1,200.00	80.00	3,200.00	86.32	3,452.80
5	8-Inch Gate Valve	11 EA	1,530.00	16,830.00	1,600.00	17,600.00	1,206.00	13,266.00
6	4-Inch Gate Valve	4 EA	950.00	3,800.00	800.00	3,200.00	721.00	2,884.00
7	Underground Flush Hydrant	5 EA	3,500.00	17,500.00	1,900.00	9,500.00	2,183.00	10,915.00
8	Air Release Valve	9 EA	800.00	7,200.00	1,200.00	10,800.00	1,287.00	11,583.00
9	Connection	3 EA	800.00	2,400.00	1,100.00	3,300.00	1,213.00	3,639.00
10	Master Meter	1 LS	24,000.00	24,000.00	20,000.00	20,000.00	20,452.00	20,452.00
11	Tree Removal	4,100 LF	0.10	410.00	3.00	12,300.00	2.44	10,004.00
<b>TOTAL BASE BID NO. 2</b>				<b>\$479,489.00</b>		<b>\$563,985.00</b>		<b>\$564,404.30</b>

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED AT 11:00A.M. LOCAL TIME, THURSDAY, JANUARY 5, 2017 AT THE COLUMBIA-ADAIR UTILITIES DISTRICT.

BY:

*David M. Bowles*



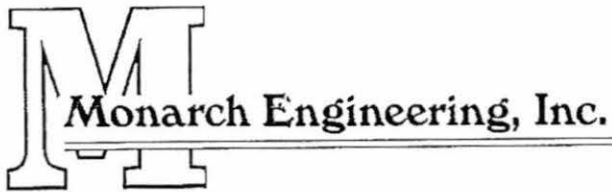
*1/6/17*

DATE

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

**BID TABULATIONS**  
**COLUMBIA-ADAIR UTILITIES DISTRICT**  
**WATER SYSTEM EXTENSIONS & IMPROVEMENTS:**  
**FAIRPLAY AREA WATER LINE IMPROVEMENTS**  
**ADAIR COUNTY, KENTUCKY**  
**BID DATE: JANUARY 5, 2017 @ 11:00 A.M. LOCAL TIME**

ITEM NO.	DESCRIPTION	QUANTITY	Twin States Utilities, Inc. P.O. Box 14 Mt. Hermon, KY 42157		United Pipeline, Inc. 150 Hill Road Tompkinsville, KY 42167		Hubert Excavating, LLC 2590 Bondville Road Salvisa, KY 40372	
			UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST
	<b>BASE BID NO. 2</b>							
1	8-Inch PVC SDR 17 Water Line	29,620 LF	\$14.00	\$414,680.00	\$17.50	\$518,350.00	\$22.00	\$651,640.00
2	Bore & Case for 8-Inch Water Line	650 LF	100.00	65,000.00	170.00	110,500.00	220.00	143,000.00
3	Open Cut & Case for 8-Inch Water Line	50 LF	100.00	5,000.00	125.00	6,250.00	85.00	4,250.00
4	Creek Crossing for 8-Inch Water Line	40 LF	105.00	4,200.00	110.00	4,400.00	160.00	6,400.00
5	8-Inch Gate Valve	11 EA	1,300.00	14,300.00	1,600.00	17,600.00	1,525.00	16,775.00
6	4-Inch Gate Valve	4 EA	734.00	2,936.00	1,000.00	4,000.00	1,000.00	4,000.00
7	Underground Flush Hydrant	5 EA	1,500.00	7,500.00	2,400.00	12,000.00	2,000.00	10,000.00
8	Air Release Valve	9 EA	1,000.00	9,000.00	1,900.00	17,100.00	1,250.00	11,250.00
9	Connection	3 EA	2,500.00	7,500.00	2,500.00	7,500.00	1,500.00	4,500.00
10	Master Meter	1 LS	26,000.00	26,000.00	20,000.00	20,000.00	21,685.00	21,685.00
11	Tree Removal	4,100 LF	10.00	41,000.00	2.00	8,200.00	15.00	61,500.00
	<b>TOTAL BASE BID NO. 2</b>			<b>\$597,116.00</b>		<b>\$725,900.00</b>		<b>\$935,000.00</b>



January 6, 2017

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

Re: Fairplay Water System, Improvements

Dear Mr. Stone:

On January 5, 2017, bids were received by the Utilities District for the Fairplay Water System Improvements. The bid package consisted of two base bids for consideration, one bid for the installation of the project using 6-inch piping and the other was for 8-inch piping. Six bids were submitted and the lowest bid was by Stotts Construction Co., Inc. (Stotts) for both options. Stotts's bid for the 6-inch option was \$378,720.00 and for the 8-inch option was \$479,489.00. 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 for both options which includes a ten percent contingency and engineering design along with construction inspection based on the U.S. Department of Agriculture's schedule for engineering fees. The total project cost for the 6-inch option is \$488,510.92 and for the 8-inch option is \$613,266.43. The amount of funds that currently remain from the Kentucky Infrastructure Authority's source of funds is \$1,934,193.69, thus should the Utilities District choose the 6-inch option the amount of funds that would remain uncommitted would be \$1,445,682.77 and for the 8-inch option would be \$1,320,927.26.

The basis for developing the bid schedule was by estimating the amount of quantities that are to be installed. During the construction of the project the actual quantities installed could vary to be more or less but it is not anticipated that there would be a significant difference. For example, we have estimated that it will take 29,620 feet of water line and we do not expect that to change more or less by ten percent. We will be monitoring the installation of the quantities daily and comparing them with our design drawings to ensure they coincide. In the event we foresee an unexpected change, for example the encountering of a cave or undocumented burial plot, we would notify you immediately. At the completion of the project we anticipate that there will be a Change Order that would reflect the amount of the actual quantities that were installed, and it could be more or less than the original contract amount.

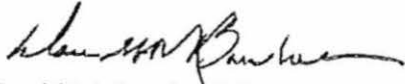
Therefore, based on the competitiveness of the bids and the need to improve the water system in the Fairplay area, we recommend that the Utilities District consider awarding a contract to Stotts for the option the Utilities District selects. This recommendation is contingent upon approval from the Kentucky Infrastructure Authority and the Kentucky Public Service Commission.

# M

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Page Two  
January 6, 2017

Sincerely,



David M. Bowles, P.E.

/dmb

Attachments



**FINAL BUDGET  
FAIRPLAY AREA WATER LINE IMPROVEMENTS  
COLUMBIA ADAIR UTILITY DISTRICT  
JANUARY 5, 2017**

**6-INCH WATER LINE**

**PROJECT COSTS**

DEVELOPMENT	\$378,720.00
CONTINGENCY	37,872.00
ENGINEERING DESIGN	40,977.50
ENGINEERING INSPECTION	<u>30,941.42</u>
<b>TOTAL PROJECT COSTS</b>	<b>\$488,510.92</b>

**PROJECT FINANCING**

KENTUCKY INFRASTRUCTURE AUTHORITY	<u>\$488,510.92</u>
<b>TOTAL PROJECT FINANCING</b>	<b>\$488,510.92</b>

**FUNDS AVAILABLE FOR BURKESVILLE STREET PROJECT** **\$1,445,682.77**

**FINAL BUDGET  
FAIRPLAY AREA WATER LINE IMPROVEMENTS  
COLUMBIA ADAIR UTILITY DISTRICT  
JANUARY 5, 2017**

**8-INCH WATER LINE**

**PROJECT COSTS**

DEVELOPMENT	\$479,489.00
CONTINGENCY	47,948.90
ENGINEERING DESIGN	49,770.96
ENGINEERING INSPECTION	<u>36,057.57</u>
<b>TOTAL PROJECT COSTS</b>	<b>\$613,266.43</b>

**PROJECT FINANCING**

KENTUCKY INFRASTRUCTURE AUTHORITY	<u>\$613,266.43</u>
<b>TOTAL PROJECT FINANCING</b>	<b>\$613,266.43</b>

**FUNDS AVAILABLE FOR BURKESVILLE STREET PROJECT** **\$1,320,927.26**

**FINAL BUDGET  
FAIRPLAY AREA WATER LINE IMPROVEMENTS  
COLUMBIA ADAIR UTILITY DISTRICT  
JANUARY 5, 2017**

**8-INCH WATER LINE**

**PROJECT COSTS**

DEVELOPMENT	\$479,489.00
CONTINGENCY	47,948.90
ENGINEERING DESIGN	49,770.96
ENGINEERING INSPECTION	<u>36,057.57</u>
<b>TOTAL PROJECT COSTS</b>	<b>\$613,266.43</b>

**PROJECT FINANCING**

KENTUCKY INFRASTRUCTURE AUTHORITY	<u>\$613,266.43</u>
<b>TOTAL PROJECT FINANCING</b>	<b>\$613,266.43</b>

<b>FUNDS AVAILABLE FOR BURKESVILLE STREET PROJECT</b>	<b>\$1,320,927.26</b>
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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.

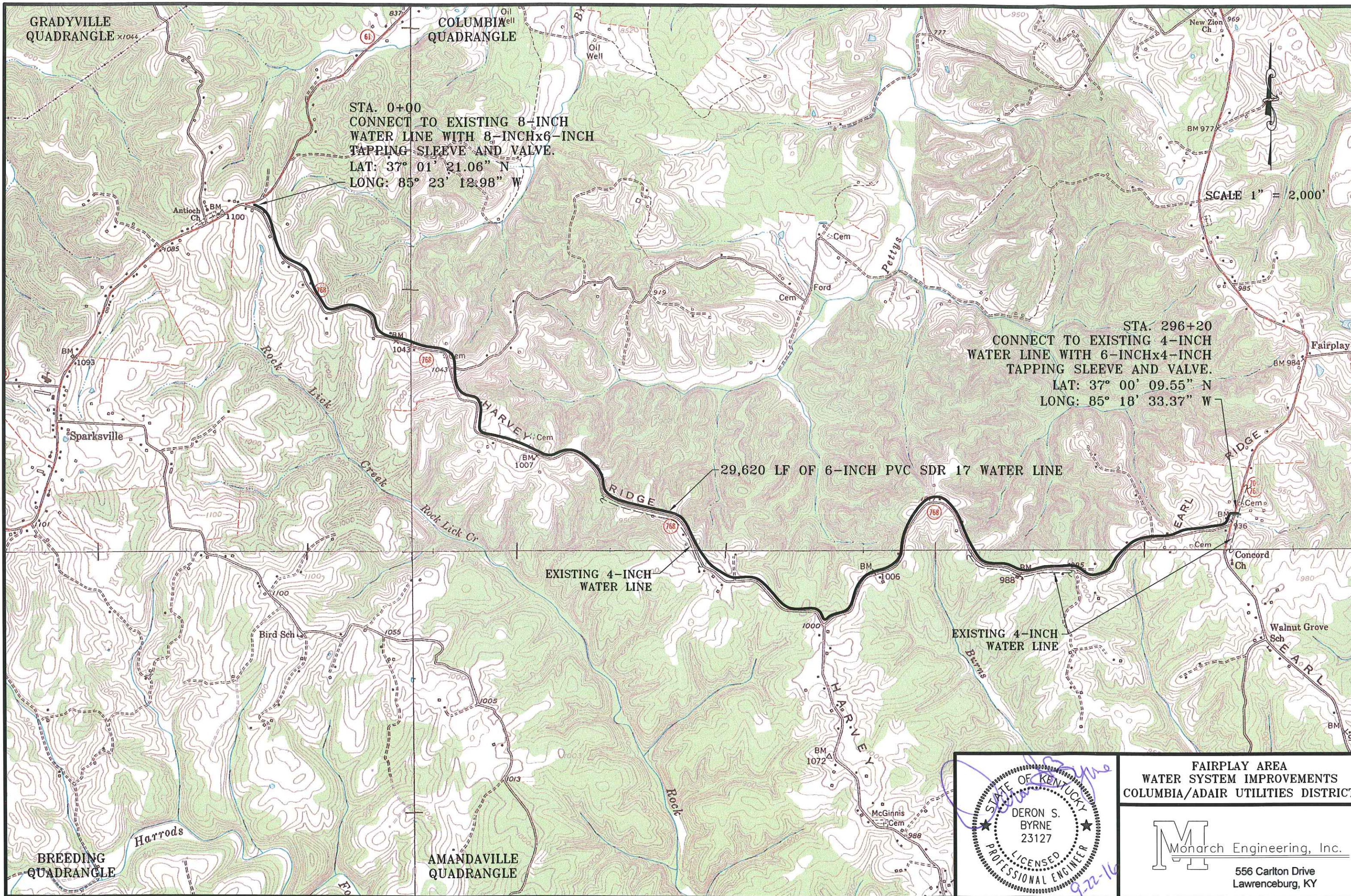
Based upon facts presented to KIA in a meeting with District representatives on July 21, 2016, the District expressed interest in proceeding with design and construction of the Highway 704 Waterline Replacement and Loop project prior to completing the Burkesville Street Replacement project. Due to the 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 cursive script that reads "Sandra K. Dunahoo".

Sandra K. Dunahoo, Commissioner



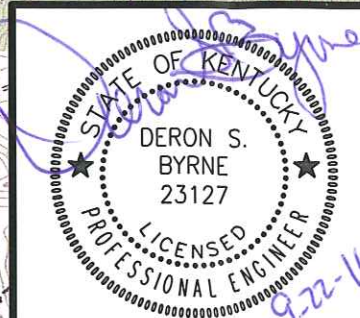
STA. 0+00  
 CONNECT TO EXISTING 8-INCH  
 WATER LINE WITH 8-INCHx6-INCH  
 TAPPING SLEEVE AND VALVE.  
 LAT: 37° 01' 21.06" N  
 LONG: 85° 23' 12.98" W

STA. 296+20  
 CONNECT TO EXISTING 4-INCH  
 WATER LINE WITH 6-INCHx4-INCH  
 TAPPING SLEEVE AND VALVE.  
 LAT: 37° 00' 09.55" N  
 LONG: 85° 18' 33.37" W

29,620 LF OF 6-INCH PVC SDR 17 WATER LINE

EXISTING 4-INCH  
 WATER LINE

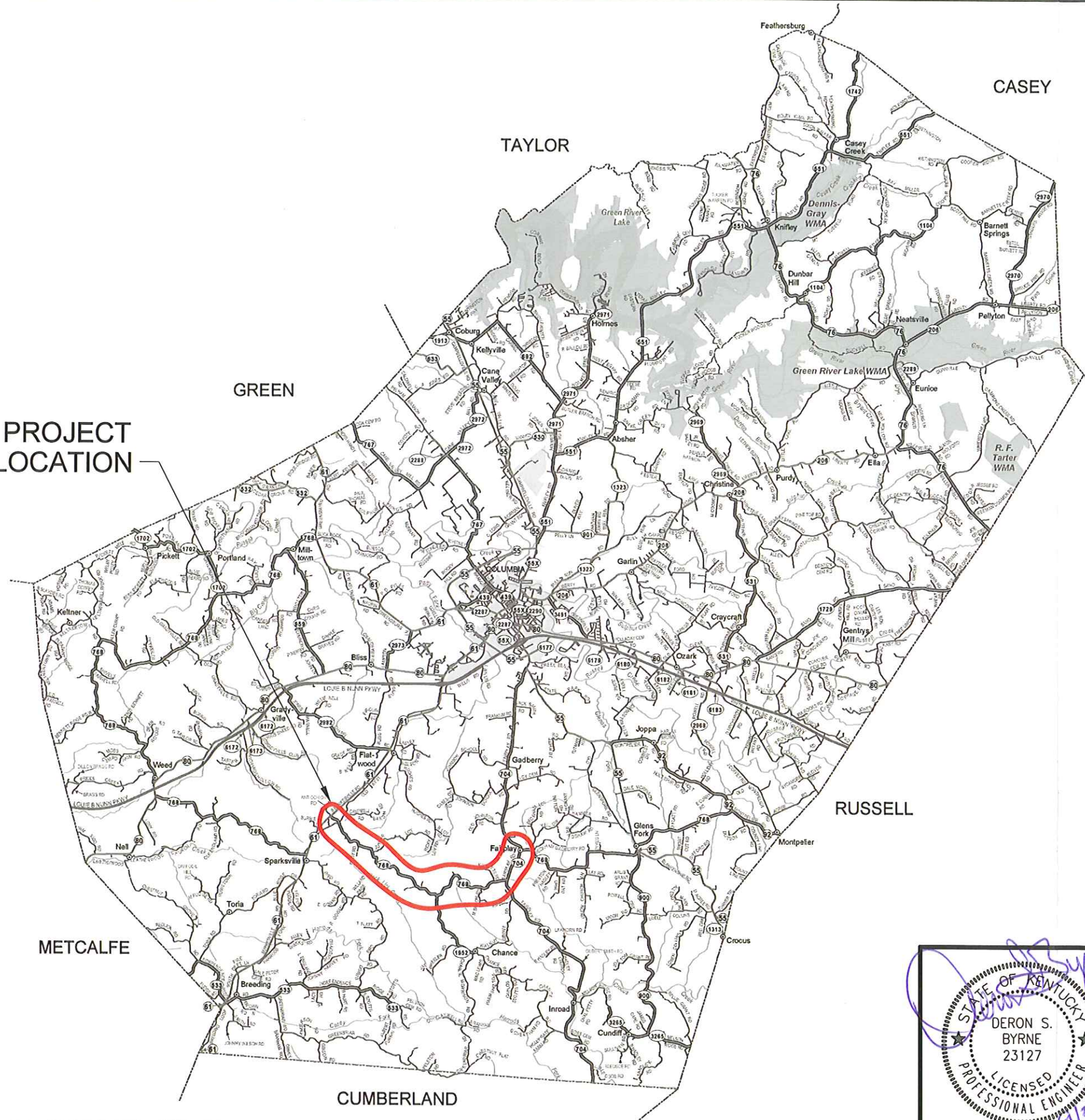
EXISTING 4-INCH  
 WATER LINE



FAIRPLAY AREA  
 WATER SYSTEM IMPROVEMENTS  
 COLUMBIA/A DAIR UTILITIES DISTRICT

**M** Monarch Engineering, Inc.  
 556 Carlton Drive  
 Lawrenceburg, KY

PROJECT  
LOCATION



CASEY

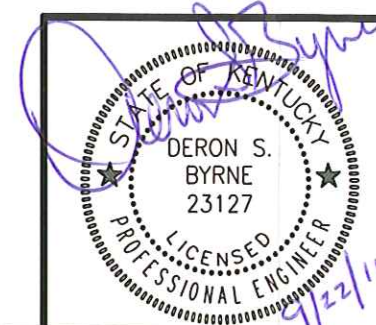
TAYLOR

GREEN

RUSSELL

METCALFE

CUMBERLAND



FAIRPLAY AREA  
WATER SYSTEM IMPROVEMENTS  
COLUMBIA/AIR UTILITIES DISTRICT

**M** Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY