

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF NORTHERN KENTUCKY)
WATER DISTRICT FOR APPROVAL OF) CASE NO. 2015-00324
MADISON PIKE 24 INCH HYDRAULIC)
REDUNDANCY PROJECT (Phase 1))
FOR ISSUANCE OF A CERTIFICATE)
OF CONVENIENCE AND NECESSITY)

APPLICATION FOR APPROVAL OF CONSTRUCTION

Northern Kentucky Water District (NKWD), by counsel, petitions for an order approving the construction the Madison Pike Project as described below pursuant to KRS 278.020.

In support of the application, the following information is provided:

1. NKWD's office address is 2835 Crescent Spring Rd., Erlanger, KY 41018-0640. Its principal officers are listed in its current Annual Report on page 6, which is filed with the Commission as are its prior years Reports and is incorporated by reference.

Its contact officer is:

Jack Bragg, Vice President Finance
2835 Crescent Spring Rd.
Erlanger, KY 41018-0640
(859) 578 9898 Phone
(859) 578-3668 fax
jbragg@nkywater.org

2. NKWD is a non-profit water district organized under Chapter 74 and has no separate articles of incorporation;

3. A description of NKWD's water system and its property stated at original cost by accounts is contained in its Annual Report, which is incorporated by reference.

4. NKWD serves retail customers in Kenton, Boone and Campbell Counties and

sells water at wholesale to non-affiliated water distribution systems in Kenton, Boone, Pendleton and Campbell Counties.

5. NKWD proposes to construct new facilities as described in Exhibit A. The District's Water Distribution System Master Plan has identified the need for a hydraulic improvement project along Madison Pike from Dudley Road to Hands Pike, which is broken down into three phases. This overall project is designed to improve flows to the Richardson Road Pump Station and southern end of Kenton County and is in anticipation of a future 1080 pump station. This improvement will also help strengthen and improve redundancy to the industrial area along Madison Pike.

This project involves the construction/installation of approximately 5,610 linear feet of 24-inch Class 50 ductile iron pipe, approx. 146 linear feet of 20-inch/12-inch/8-inch Class 50 ductile iron pipe, together with fire hydrants, valves, fittings, appurtenances and related work along Madison Pike from Mary Laidley to Hands Pike in the City of Covington, Kenton County Kentucky.

6. The project will be funded by a future Bond Anticipation Note (BAN) with an estimated budget of \$1,991,000 from the 2015 5-Year Capital Budget by PSC Ref No. 178, Page 40, "Madison Pike from Mary Laidley to Hands Pike (Phase 1)". The total project budget is \$1,991,000 which includes construction cost, engineering, materials, and contingencies. A summary of the project costs is provided below:

○ Engineering	\$ 62,837.00
○ Contractor's Bid	\$ 1,095,292.00
○ Misc. & Contingencies	<u>\$ 832,871.00</u>
Total Project Cost	\$ 1,991,000.00

Because the BAN is temporary financing for fewer than two years, NKWD believes no approval of the financing is necessary. However, if approval pursuant to KRS 278.300 is needed, such approval is requested.

7. The construction is in the public interest and is required to allow NKWD to continue to provide adequate service to its customers. The project, its cost, need and other details are contained in Exhibit A. The District has received all approvals from the DOW for the Plans and Specifications and funding for these improvements. See Exhibit B.

8. Easements are not required. Rights of Way statements are attached to exhibit B.

9. This service will not compete with any other utility in the area.

10. The proposed construction project identified in Exhibit A is scheduled to begin construction in upon PSC approval and the expected in service date is in November, 2016. Board approval of the final bids for the project is included in Exhibit C. Bids for this project were opened on September 3, 2015 and are subject to acceptance for 90 days. Therefore, **the bids will expire on December 1, 2015.**

11. No new franchises are required. A copy of the DOW letter approving the Plans and Specifications for the proposed improvements is attached as Exhibit B.

12. Construction descriptions are in Exhibit A and Bid Documents. Facts relied on to justify the public need are included in the project descriptions in Exhibit A.

13. Maps of the area showing location of the proposed facilities are in Exhibit A.

14. The construction costs will be funded by as described above.

15. Estimated operating costs for operation and maintenance, depreciation and debt service after construction are shown in Exhibit D.

16. A description of the facilities and operation of the system are in Exhibit A.

17. A full description of the route, location of the project, description of construction and related information is in Exhibit A.

18. The start date for construction is January, 2016 or upon PSC approval. The proposed in-service date is July, 2016. The total estimated cost of construction at

completion is referenced in Exhibits A, B and D.

19. CWIP at end of test year is listed in the Annual Report incorporated by reference.

20. Plant retirements are listed in Exhibit B and the Annual Report. No salvage values are included as booked.

21. The use of the funds and need for the facilities is justified based on a the engineering report included as Exhibit A

22. No rate adjustment is being proposed.

23. The following information is provided in response to 807 KAR 5:001 (8):

a. Articles of Incorporation – None. NKWD is a statutorily created water district under KRS Chapter 74;

24. The following information is supplied pursuant to 807 KAR 5:001(9):

a. Facts relied upon to show that the application is in the public interest: See Exhibit A.

25. The following information is provided as required by 807 KAR 5:001 (11):

a. A general description of the property is contained in the Annual Report,
b. No stock is to be issued; No bonds are to be issued in this case;
c. There is no refunding or refinancing;
d. The proceeds of the financing are to construct the property described in Exhibit A.
e. The par value, expenses, use of proceeds, interest rates and other information is not applicable because no bonds are being issued at this time.

26. The following exhibits are provided pursuant to 807 KAR 5:001 (11)(2):

a. There are no trust deeds. All notes, indebtedness and mortgages are included in Exhibit F.

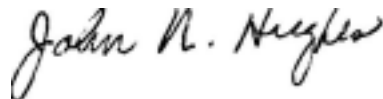
b. Property is to be constructed is described in Exhibit A.

27. The following information is provided pursuant to 807 KAR 5:001(6):

- a. No stock is authorized.
 - b. No stock is issued.
 - c. There are no stock preferences.
 - d. Mortgages are listed in Exhibit E.
 - e. Bonds are listed in Exhibit E.
 - f. Notes are listed in Exhibit E.
 - g. Other indebtedness is listed in Exhibit E.
 - h. No dividends have been paid.
 - i. Current balance sheet, income statement and debt schedule are attached as Exhibit F.
28. USoA plant accounts are included in Exhibit D.
29. Depreciation cost, cost of operation after installation and debt service are in Exhibit D.

For these reasons, the District requests issuance of an order granting authority to construct the facilities and for any other authorization that may be necessary.

SUBMITTED BY:



John N. Hughes
124 W. Todd St.
Frankfort, KY 40601

Attorney for Northern
Kentucky Water District
inhughes@johnnhughespsc.com
502 227 7270 Ph.

LIST OF EXHIBITS

Section 8(1)	Full name and post office address of applicant and a reference to the particular provision of law requiring Commission approval.	Application
Section 8(2)	The original and 10 copies of the application with an additional copy for any party named therein as an interested party.	yes
Section 8(3)	If applicant is a corporation, a certified copy of the Articles of Incorporation and all amendments thereto <u>or</u> if the articles were filed with the PSC in a prior proceeding, a reference to the style and case number of the prior proceeding.	n/a
Section 9(2)	1. The facts relied upon to show that the proposed new construction is or will be required by public convenience or necessity.	Exhibit A
	2. Copies of franchises or permits, if any, from the proper public authority for the proposed new construction or extension, if not previously filed with the commission.	Exhibit B
	3. A full description of the proposed location, route, or routes of the new construction or extension, including a description of the manner in which same will be constructed, and also the names of all public utilities, corporations, or persons with whom the proposed new construction or extension is likely to compete.	Exhibit A
	4. Three (3) maps to suitable scale (preferably not more than two (2) miles per inch) showing the location or route of the proposed new construction or extension, as well as the location to scale of any like facilities owned by others located anywhere within the map area with adequate identification as to the ownership of such other facilities.	Exhibit A
	5. The manner, in detail, in which it is proposed to finance the new construction or extension.	Exhibits A, D

6. An estimated cost of operation after the proposed facilities are completed.

Exhibit D

KRS 322.340

Engineering plans, specifications, plats and report for the proposed construction. The engineering documents prepared by a registered engineer, requires that they be signed, sealed, and dated by an engineer registered in Kentucky.

Exhibit A

Section 8(1)

Full name and post office address of applicant and a reference to the particular provision of law requiring Commission approval.

Application

Section 8(2)

The original and 10 copies of the application with an additional copy for any party named therein as an interested party.

yes

Section 8(3)

If applicant is a corporation, a certified copy of the Articles of Incorporation and all amendments thereto or if the articles were filed with the PSC in a prior proceeding, a reference to the style and case number of the prior proceeding.

n/a

KRS 278.300(2)

Every financing application shall be made under oath, and shall be signed and filed on behalf of the utility by its president, or by a vice president, auditor, comptroller or other executive officer having knowledge of the matters set forth and duly designated by the utility.

Application

807 KAR 5:001:

Section 11(1)(a)

Description of applicant's property.
Statement of original cost of applicant's property and the cost to the applicant, if different.

Annual Rpt

Section 11(1)(b)

If stock is to be issued: and kinds to be issued.

--Description of amount and kinds to be issued.

--If preferred stock, a description of the preferences.

If Bonds or Notes or Other Indebtedness is proposed:

none

none

Exhibit E

	--Description of the amount(s)	
	--Full description of all terms	
	--Interest rates(s)	
	--Whether the debt is to be secured and if so a description of how it's secured.	
Section 11(1)(c)	Statement of how proceeds are to be used. Should show amounts for each type of use (i.e., property, debt refunding, etc.)	Exhibit A
807 KAR 5:001:		
Section 11(1)(d)	If proceeds are for property acquisition, give a full description thereof. Supply any contracts.	n/a
Section 11(1)(e)	If proceeds are to refund outstanding obligations, give:	n/a
	--Par value	
	--Amount for which actually sold	
	--Expenses and application of proceeds	
	--Date of obligations	
	--Total amount	
	--Time held	
	--Interest rate	
	--Payee	
Section 11(2)(a)	Financial Exhibit (see below)	
Section 11(2)(b)	Copies of all trust deeds or mortgages. If previously filed, state case number.	Annual Rpt
Section 11(2)(c)	If Property to be acquired:	Exhibit A
	--Maps and plans of property.	
Section 11(2)(c)	--Detailed estimates by USOA account number.	Exhibit D

ALL INFORMATION BELOW IN SECTIONS 6(1) THROUGH 6(9) SHOULD COVER THE PERIOD ENDING NOT MORE THAN 90 DAYS PRIOR TO DATE ON WHICH APPLICATION WAS FILED:

807 KAR 5:001

Section 6(1)	Amount and types of stock authorized.	None
Section 6(2)	Amount and types of stock issued and outstanding.	None
Section 6(3)	Detail of preference terms of preferred stock.	None
Section 6(4)	<u>Mortgages:</u>	Exhibit E
	--Date of Execution	
	--Name of Mortgagor	
	--Name of Mortgagee or Trustee	
	--Amount of Indebtedness Secured	
	--Sinking Fund Provisions	
Section 6(5)	<u>Bonds</u>	Exhibit E
	--Amount Authorized	
	--Amount Issued	
	--Name of Utility Who Issued	
	--Description of Each Class Issued	
	--Date of Issue	
	--Date of Maturity	
	--How Secured	
	--Interest Paid in Last Fiscal Year	
Section 6(6)	<u>Notes Outstanding:</u>	Exhibit E
	--Date of Issue	
	--Amount	
	--Maturity Date	
	--Rate of Interest	

	--In Whose Favor	
	--Interest Paid in Last Fiscal Year	
Section 6(7)	<u>Other Indebtedness:</u>	
	--Description of Each Class	
	--How Secured	
	--Description of Any Assumption of Indebtedness by Outside Party (i.e., any transfer)	
	--Interest Paid in Last Fiscal Yr.	none
Section 6(8)	Rate and amount of dividends paid during the five (5) previous fiscal years and the amount of capital stock on which dividends were paid each year.	None
Section 6(9)	Detailed income statement and balance sheet.	Exhibits F

NORTHERN KENTUCKY
WATER DISTRICT

Case No. 2015-00324

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

**Madison Pike from Mary Laidley to Hands Pike 24 inch Hydraulic Redundancy
Project (Phase 1), Covington, Kenton County, Kentucky
184-0731**

Project Description:

The District's Water Distribution System Master Plan has identified the need for a hydraulic improvement project along Madison Pike from Dudley Road to Hands Pike, which is broken down into three phases. This overall project is designed to improve flows to the Richardson Road Pump Station and southern end of Kenton County and is in anticipation of a future 1080 pump station. This improvement will also help strengthen and improve redundancy to the industrial area along Madison Pike.

This project involves the construction/installation of approximately 5,610 linear feet of 24-inch Class 50 ductile iron pipe, approx. 146 linear feet of 20-inch/12-inch/8-inch Class 50 ductile iron pipe, together with fire hydrants, valves, fittings, appurtenances and related work along Madison Pike from Mary Laidley to Hands Pike in the City of Covington, Kenton County Kentucky.

Bids for this project were opened on September 3, 2015 and are subject to acceptance for 90 days. Therefore, the bids will expire on December 1, 2015

NORTHERN KENTUCKY WATER DISTRICT
Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic
Redundancy Project (Phase 1) Covington, Kenton County, KY
184-0731

TABLE OF CONTENTS

Project Description

<u>EXHIBIT</u>	<u>TITLE</u>
A	ENGINEERING REPORTS AND INFORMATION (1) Project map (2) Engineer's opinion of probable total construction cost; (3) System Hydraulic Model (4) Plans prepared by Bayer Becker titled "NKWD – Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic Redundancy Project (Phase 1) Covington, Kenton County, Kentucky" dated September 2015, sealed by a P.E. (5) Specifications prepared by Bayer Becker titled "Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic Redundancy Project (Phase 1) Covington, Kenton County, Kentucky" dated September 2015, sealed by a P.E.
B	Certified statement from an authorized utility Official confirming: (1) Affidavit (2) Franchises (3) Plan review and permit status (4) Easements and Right-Of-Way status (5) Construction dates and proposed date in service (6) Plant retirements
C	BID INFORMATION AND BOARD RESOLUTION Bid tabulation, Engineer's recommendation of award, Board Meeting Minutes.
D	PROJECT FINANCE INFORMATION Customers added and revenue effect, Debt issuance and source of debt, Additional costs and operating and maintenance, USoA plant account, Depreciation cost and debt service after construction.
E	SCHEDULE OF MORTGAGES, BONDS, NOTES, AND OTHER INDEBTEDNESS
F	CURRENT BALANCE SHEET AND INCOME STATEMENT

NORTHERN KENTUCKY
WATER DISTRICT

Project

**Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky**

184-0731

ENGINEERING REPORTS AND INFORMATION

Project Map

Engineer's Opinion of Probable Total Construction Cost

System Hydraulic Model

Plans prepared by Bayer Becker titled "NKWD – Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic Redundancy Project (Phase 1) Covington, Kenton County, Kentucky" dated September 2015, sealed by a P.E.

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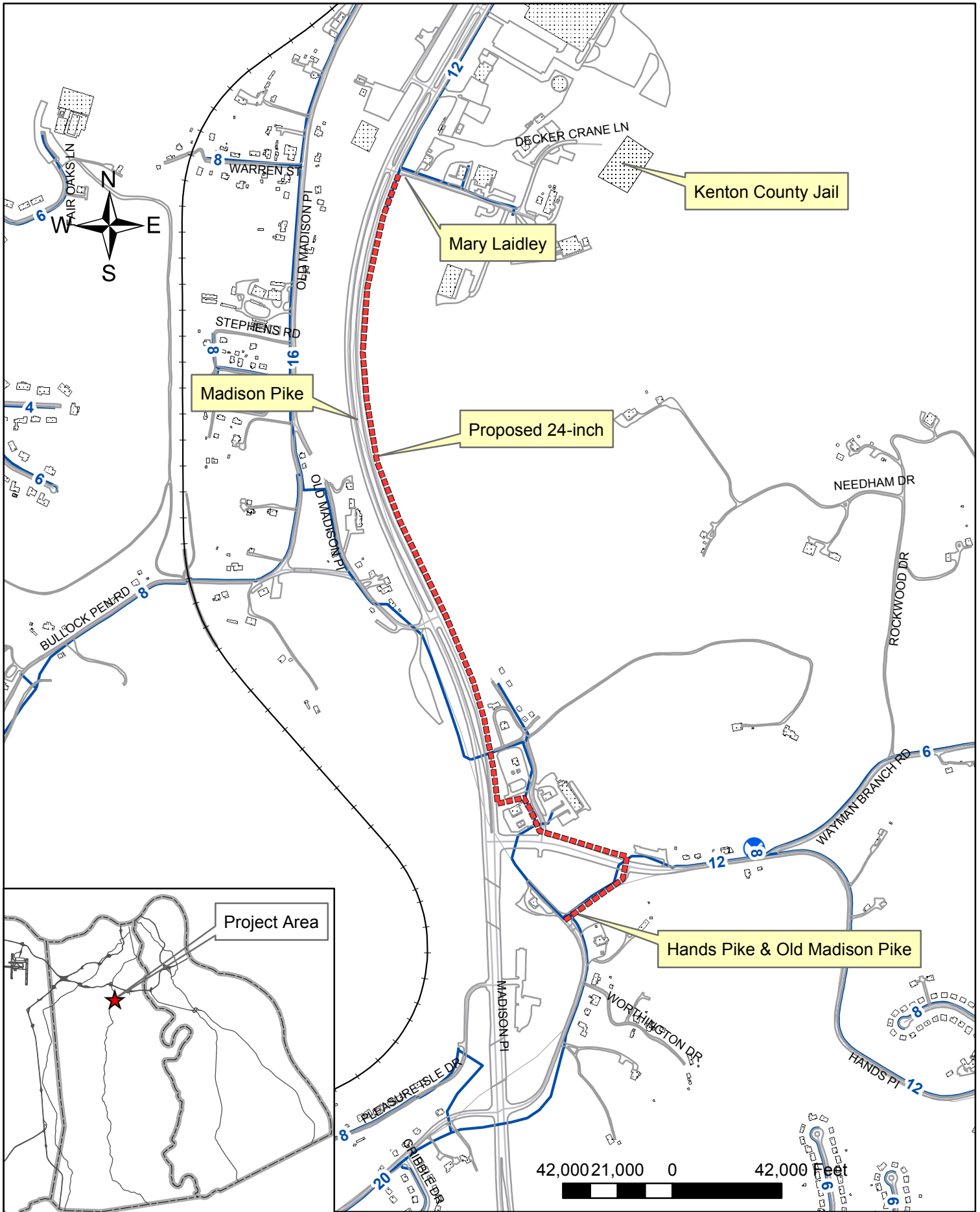
NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

Project Map



Madison Pike 24-Inch Water Main - Ph. 1

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

Engineer's Opinion
Of Probable
Construction Cost

Note: Bidder agrees to perform all the following work described in the specifications and shown on the plans, for the following unit prices:

Madison Pike 24-Inch Hydraulic/Redundancy

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 50 DUCTILE IRON PIPE (24"). (Detail 103, 103a, 104, 104a, 110)	LF	4080	\$145.00	\$591,600.00
2	6.02B CLASS 50 DUCTILE IRON PIPE (24") – RESTRAINED JOINT.	LF	1510	\$150.00	\$226,500.00
3	6.02B CLASS 50 DUCTILE IRON PIPE (20") – RESTRAINED JOINT.	LF	45	\$145.00	\$6,525.00
4	6.02B CLASS 50 DUCTILE IRON PIPE (12") – RESTRAINED JOINT.	LF	47	\$140.00	\$6,580.00
5	6.02B CLASS 50 DUCTILE IRON PIPE (8") – RESTRAINED JOINT.	LF	73	\$130.00	\$9,490.00
6	6.04 CASING PIPE (36")	LF	72	\$600.00	\$43,200.00
7	7.01 CONNECT TO EXISTING MAIN/TIE-IN (12")	EA	2	\$2,500.00	\$5,000.00
8	7.02 TAPPING SLEEVE & VALVE (20")	EA	1	\$30,000.00	\$30,000.00
9	7.02 TAPPING SLEEVE & VALVE (8")	EA	1	\$3,250.00	\$3,250.00
10	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	3	\$3,750.00	\$11,250.00
11	8.03 REMOVE FIRE HYDRANT	EA	1	\$750.00	\$750.00
12	9.02 DUCTILE IRON RESILIENT SEATED GATE VALVE WITH BEVELED GEARING (24")	EA	7	\$17,500.00	\$122,500.00
13	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (20")	EA	1	\$0.00	\$0.00
14	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (8")	EA	3	\$1,500.00	\$4,500.00
15	11.02 4" UNDERDRAIN	EA	3	\$1,200.00	\$3,600.00
16	11.03 RELOCATE EX. 24" DRIVEWAY CULVERT	EA	1	\$2,000.00	\$2,000.00
17	11.04 PLUG AND BLOCK (24")	EA	2	\$1,600.00	\$3,200.00
18	11.06 M.J. TEE AND BLOCK (24"x24"x24")	EA	2	\$3,750.00	\$7,500.00
19	11.06 ANCHORING TEE AND BLOCK (24"x24"x8")	EA	2	\$2,750.00	\$5,500.00
20	11.06 ANCHORING TEE AND BLOCK (24"x24"x6")	EA	3	\$2,200.00	\$6,600.00

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
21	11.06 ANCHORING TEE AND BLOCK (8"x8"x6")	EA	2	\$350.00	\$700.00
22	11.09 REDUCER (24"x20")	EA	1	\$1,400.00	\$1,400.00
23	11.09 REDUCER (24"x12")	EA	1	\$1,300.00	\$1,300.00
24	11.09 REDUCER (12"x8")	EA	1	\$750.00	\$750.00
25	11.11 TEST TAP	EA	1	\$1,300.00	\$1,300.00
26	11.16 CORROSION TEST STATION	EA	7	\$1,200.00	\$8,400.00
27	11.17 MAGNESIUM ANODES	EA	29	\$500.00	\$14,500.00
28	11.18 36" DIAMETER DRILLED SHAFT BLOCK	EA	1	\$9,000.00	\$9,000.00
29	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (1.5" Thick)	SY	740	\$20.00	\$14,800.00
30	12.06 ASPHALTIC CONCRETE (7.5" Thickness)	SY	249	\$63.00	\$15,687.00
31	12.09 CONCRETE PAVEMENT	SY	277	\$72.00	\$19,944.00
32	12.11 CONCRETE CURBING	LF	10	\$50.00	\$500.00
33	12.13 GRAVEL DRIVEWAY	SY	144	\$30.00	\$4,320.00
34	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$10,000.00	\$10,000.00
MADISON PIKE SUBTOTAL					\$1,192,146.00
<p><i>Note: See section 01025 Measurement and Payment for bid form definitions</i> Bidder selection will be based upon the lowest "TOTAL BASE BID"</p>					

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

System Hydraulic Model

Northern Kentucky Water District

February 6, 2015

Division of Water
Drinking Water Branch
200 Fair Oaks Lane
Fourth Floor
Frankfort, KY 40601

Re: Madison Pike 24-inch Hydraulic/Redundancy, Kenton County, Kentucky

To Whom It May Concern:

This is to indicate that the above referenced project was initiated by the Northern Kentucky Water District. The project has been reviewed by the District and the necessary water for domestic use is available and will be supplied under normal conditions, and the District shall accept maintenance of this project.

The District cannot approve this project under Agreed Order No. DWO 06008 since the water main is greater than 12" diameter.

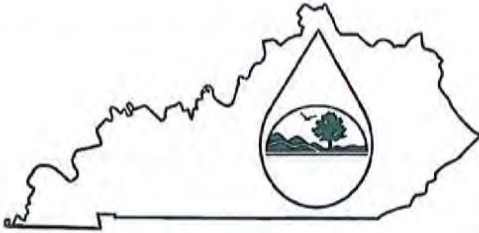
If there are questions, please do not hesitate to contact me at 859-426-2703.



Jeff Schuchter
Design Supervisor

cc: file

Enclosed: Form DW-1
4 Sets of Full Size Plans



Commonwealth of Kentucky
 Energy and Environment Cabinet
Division of Water

**Construction Application
 For Drinking Water Distribution**

See the instructions for more information about selected portions of this application.
 Questions on completing this application? Contact the Water Infrastructure Branch at 502/564-3410, by e-mail at WIBEngineering@ky.gov or visit our website at <http://water.ky.gov> for more information.

I. Construction Project Information

Project Name: MADISON PINE 24" DI. HYDRAULIC / REDUNDANCY PROJECT

Project County: KENTON Estimated Project Cost: \$ 300,000

Project Latitude/Longitude (DMS): (39.0000, -84.5000)

Is this a federally funded project: NO

- DWSRF
- SPAP
- Other: _____

If yes, has an Environmental Information Document been reviewed and approved? N/A

If the project has been submitted to the State Clearinghouse for review, provide the SAI number: _____

Identify all other funding sources: _____

Does the project contain any of the following:

- Booster Pump Stations
- Water Storage Tanks
- Waterlines

Waterline Material	Waterline Size	Linear Feet
<u>D.I.P.</u>	<u>24"</u>	<u>5,600</u>

Provide a DETAILED description of work to be performed for this project. Attach additional sheets as necessary:

CONSTRUCTION OF APPROX 5,600' - 24" D.I.P. WATER MAIN FOR REDUNDANCY & HYDRAULIC IMPROVEMENT TO EXTEND FROM AN EXISTING 20" MAIN @ OLD HANDS / MADISON PINE TO AN EXISTING 12" MAIN @ MARY LANSLEY DRIVE ALONG MADISON PINE (KY 17) TO KENTON CO. THE PROJECT WILL BE SET UP FOR FUTURE EXTENSIONS @ EACH END OF THE PROJECT.

Identify how the sanitary wastewater produced as a result of this project will be handled:

- Sanitary Sewer WWTP: _____
 Septic Tank
 Other: N/A

II. Utility Information

Utility Name: NKWD PWSID: _____
Street Address: 2835 CRESCENT SPRINGS RD County: KENTON
City, State, Zip: ERLANGER, KY. 41018
Phone #: 426-2717 Fax #: 578-5456 Email: jscheben@kywater.org

If another utility will serve any portion of the proposed project, provide the name and PWSID No.

Utility Name: N/A PWSID No. N/A

If the utility serving the project purchases water from another utility, provide the name and PWSID No. and purchase contract amount.

Utility Name: N/A PWSID No. _____ Purchase Contract Amount: _____
Utility Name: ↓ PWSID No. _____ Purchase Contract Amount: _____
Utility Name: ↓ PWSID No. _____ Purchase Contract Amount: _____

Is the system currently under any type of waterline or sewer sanctions? NO

If yes, submit an exception request and attach supporting documentation to justify its approval.

III. Design Considerations

A. Plans and Specifications

Plans and specifications shall comply with 401 KAR 8:100 and "Recommended Standards for Water Works" 2007 Edition (Ten States' Standards). All plans must contain a P.E. seal, signature and date of signature with at least one set having an original seal and signature. Provide detailed plans (no larger than 24" X 36") which must comply with 401 KAR 8:100. See the instructions for additional details.

B. Design Engineer

Name: ROB T. KELLER Firm: BAYER BEZNER
Street Address: 209 GRANDVIEW DRIVE
City, State, Zip: FORT MITCHELL, KY. 41011
Phone #: 261-1113 Fax #: 261-7110 Email: robkeller@bayerbezner.com

Design Capacities

Identify the number of new connections and the projected average daily demand: _____

Identify the number of existing residents, and their projected water demand, that may be served as a result of this project:

Identify the number of connections in the service area: _____

Other Information to be Submitted with the Project

- 1. Provide a copy of the U.S.G.S. 7 1/2 minute topographic map or a detailed vicinity map with the location(s) of the proposed project.
- 2. If the project includes a new or upgraded pump station(s), provide the pump sizing calculations and the proposed pump's characteristics curve along with the efficiency, horsepower and NPSHR data. Also, identify each pump station's locations coordinates (DMS). N/A
- 3. If the project proposes the addition of storage tanks, provide engineering calculations which demonstrates a complete fill and drain cycle every 72 hours. Also, identify each storage tank's location coordinates (DMS). N/A
- 4. Provide engineering calculations or an electronic model demonstrating the availability of 30 psig in the waterline under peak demand conditions.
- 5. Provide engineering calculations or an electronic model that demonstrates if the proposed waterlines are capable of a 2.5 ft/sec flow velocity and show associated residual system pressures.
- 6. Provide a signed letter of acceptance from the utility, which states that the utility has reviewed and approved the plans and specifications and agrees to serve the proposed project upon completion. If another utility will own, operate and maintain any portion of this project provide an acceptance letter from that utility as well.
- 7. If the utility is a purchaser and the project demand is over 10,000 gallons per day or the utility has exceeded 85% of its purchase contract, provide a valid acceptance letter from the seller.
- 8. If the project will provide water service to existing residences, provide the names and addresses of all existing residences to be served by the project, if known.
- 9. If the project is funded by a State Revolving Fund Loan (SRF) provide a completed SRF Plans and Specifications Checklist along with 1 complete printed copy of the project specifications.

IV. Environmental Benefits

Identify the environmental benefit(s) of the project by checking all that apply.

- Construction of new waterlines serving existing residences previously without public water.
- Modifies/upgrades existing waterlines:
 - Inadequately sized waterlines.
 - Leaks, breaks, restrictive flow.
 - Replaces lead, copper or asbestos cement waterlines.
 - Other: _____
- Provides fire protection.
- Replaces tanks/pumps due to age/condition.
- Installation of high efficiency/energy saving pumps.
- Other. Provide a brief description in the space below. _____

V. Fees

Check or money order must be made payable to "Kentucky State Treasurer" for the total amount. Fees do not apply to projects FUNDED by a municipality, water district, or other publicly owned utility.

Project Category: PUBLIC Total Amount: \$ N/A



FIRE FLOW CERTIFICATION

**Madison Pike 24-Inch Hydraulic Redundancy
Phase I
City of Covington
Kenton County, KY
January 30, 2015**

I certify that the proposed improvements meet the 807 KAR 5:066, Section 10b regulation for fire flow protection relating to KRS Chapter 278. I am certifying that "the system can provide a minimum fire flow of 250 gallons per minute; and the water system supporting this flow has the capability of providing this flow for a period of not less than two (2) hours plus consumption at the maximum daily rate". This certification is based on the information available and is not a guarantee of any precise results.

This certification is based on hydraulic modeling performed using InfoWater, the program available from InnoVyz. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of fire hydrants within this development.

Fire flow analyses were made using a hydrant within the subdivision that would provide a representative result that should simulate the results at other hydrants within the system. Minor variations at different hydrants would still provide a flow rate that meets the minimum standard.





HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

**Madison Pike 24-Inch Hydraulic Redundancy
Phase I
City of Covington
Kenton County, KY
January 30, 2015**

I certify that the proposed improvements will meet the American Water Works Association Standard C651 standard for flushing velocity in the main meeting 2.5 feet per second while maintaining at least 20 psi pressure in accordance with 401 KAR 8:100 under average day with the Richardson Road Pump Station turned off.

The maximum flow rate that can reliably be supplied to the main and meet 20 psi in the system under maximum hour conditions is 2,200 gpm. At least 30 psi can be maintained under the peak domestic demand. The peak domestic demand using the D.R. Taylor formula for 0 customers is 0 gpm.

This certification is based on the information available and is not a guarantee of any precise results. Results are based on hydraulic modeling performed using InfoWater, the program available from Innovyze. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions for maximum hour and average day demand conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of the proposed development.

The assumed Hazen-Williams roughness coefficient for all new pipe was 120, which is suitable for ductile iron or PVC. The water level in the Dudley Tanks was one-half full.



Maximum Hour Run for Potential Customers

*Richardson Road Pump Station On

Maximum Hour Run, 0 affected Customers = 0 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J204	0.0	533	799.5	115.5
J202	0.0	538	799.6	113.3
J206	0.0	532	799.6	116.0
J210	0.0	562	800.0	103.1
J208	0.0	516	800.3	123.2
7175	0.1	668	799.6	57.0

*Area of Min Pressure
(End of Waymans Branch)

Flushing Velocities Under Average Day

*Richardson Road Pump Station Turned Off

* Time of minimum pressure = 0:30 hrs

Flushing velocity 2.5 fps for new 24" pipe (average day)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J204	0.0	533	742	90
J202	0.0	538	741	88
J206	0.0	532	740	90
J210	0.0	562	738	76
J208	3525.0	516	736	95
7175	0.0	668	741	32

*Area of Min Pressure
(End of Waymans Branch)

Pipe Information for flushing velocity at 2.5 fps for new 24" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P339	553	24	3526	2.5	120
P345	598	24	3526	2.5	120
P351	2531	24	3525	2.5	120
P347	1935	24	3525	2.5	120

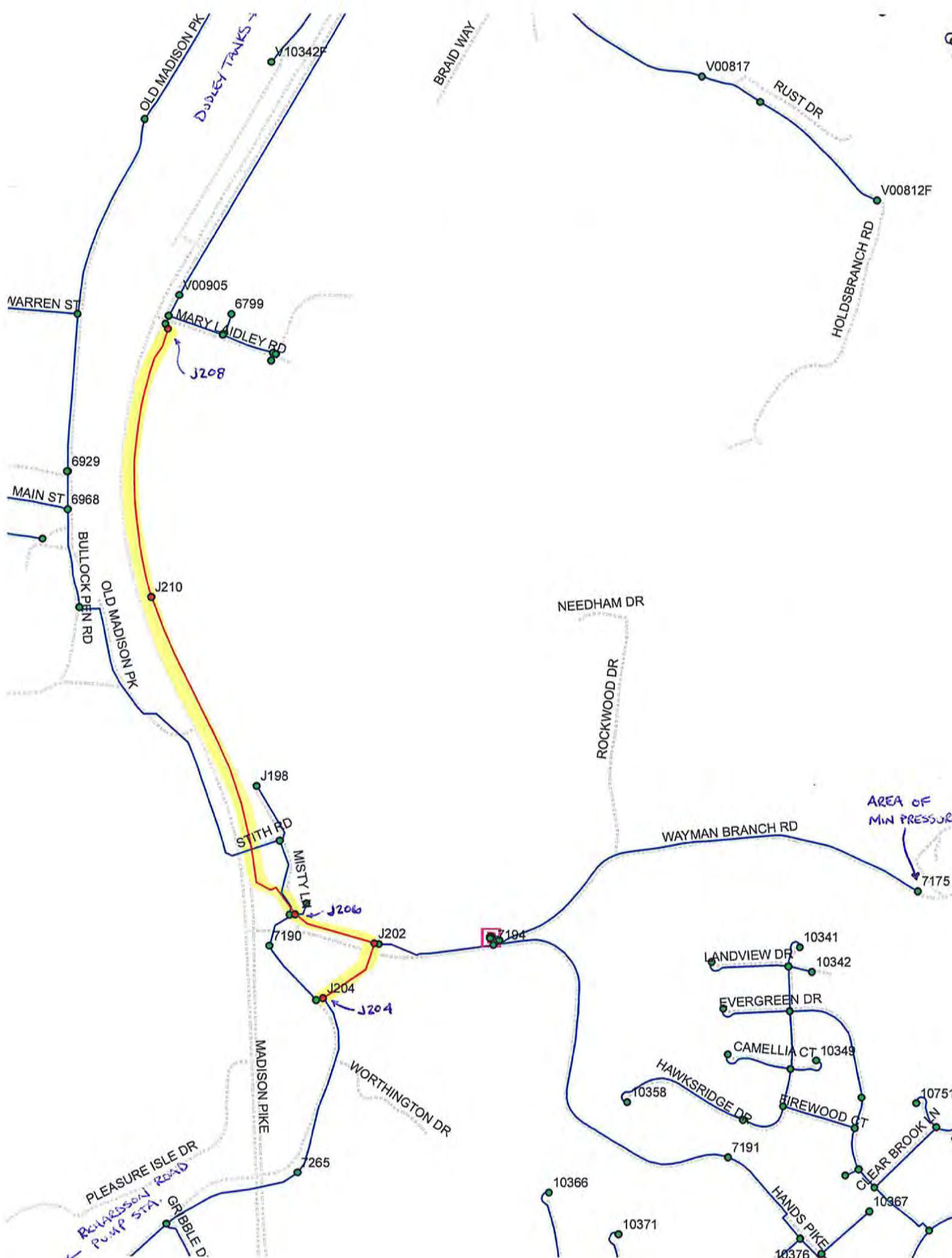
Maximum Available Flow Under Maximum Hour

*Richardson Road Pump Station On

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J204	0.0	533	718.2	80.2
J202	2200.0	538	718.2	78.1
J206	0.0	532	718.4	80.8
J210	0.0	562	719.3	68.1
J208	0.0	516	720.0	88.4
7175	0.1	668	718.2	21.7

*Area of Min Pressure
(End of Waymans Branch)

Pipe ID	From Node	To Node
P339	J204	J202
P345	J202	J206
P351	J210	J206
P347	J208	J210



WARREN ST

MAIN ST

OLD MADISON PK
DUDLEY TANKS

MARY LADLEY RD
6799

J210

J198
STITH RD

MISTY LN
J206

7190

J202

J204

7194

MADISON PIKE

WORTHINGTON DR

PLEASURE ISLE DR
REARLASSON ROAD
PUMP STA.

GRIBBLE D.

NEEDHAM DR

ROCKWOOD DR

WAYMAN BRANCH RD

LANDVIEW DR
10341
10342

EVERGREEN DR

CAMELLIA CT 10349

HAWKSBRIDGE DR
10358

FIREWOOD CT
7191

HANDS PIKE
10376

CLEAR BROOK LN
10751
10367

V00817

RUST DR

V00812F

HOLDSBRANCH RD

AREA OF MIN PRESSURE

7175

10366

10371

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

Plans titled “NKWD – Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic Redundancy Project (Phase 1) Covington, Kenton County, Kentucky” dated September 2015, sealed by a P.E.

And

Specifications titled “Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic Redundancy Project (Phase 1) Covington, Kenton County, Kentucky” dated September 2015, sealed by a P.E.

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

CERTIFIED STATEMENTS

Affidavit

Franchises

Plan Review and Permit Status

Easements and Right-of-Way Status

Construction Dates and Proposed Date In Service

Plant Retirements

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

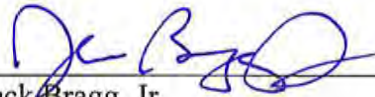
184-0731

Affidavit

AFFIDAVIT

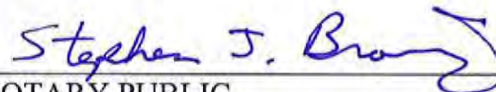
Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic Redundancy Project (Phase 1) Covington, Kenton County, Kentucky

Affiant, Jack Bragg, Jr., being the first duly sworn, deposes and says that he is the Vice President of Finance of the Northern Kentucky Water District, which he is the Applicant in the proceeding styled above; that he has read the foregoing "Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic Redundancy Project (Phase 1) Covington, Kenton County, Kentucky" Application and knows the contents thereof, and that the same is true of his own knowledge, except as to matters which are therein stated on information or belief, and that is to those matters he believes them to be true.



Jack Bragg, Jr.
Vice President - Finance
Northern Kentucky Water District

Subscribed and sworn to before me in said County to be his act and deed by
Jack Bragg, Jr., Vice President of Finance of the Northern Kentucky Water District, this
29th day of September 2015.



NOTARY PUBLIC
Kenton County, Kentucky
My commission expires 2-12-18

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

Franchises

Plan Review and Permit Status

Easements and Right-of-Way Status

Construction Dates and Proposed Date In Service

Plant Retirements

Franchises required – None

Plan Review and Permit Status - The District has reviewed and approved the plans and specifications prepared by Bayer Becker titled “NKWD – Madison Pike, Mary Laidley to Hands Pike, 24-inch Hydraulic Redundancy Project (Phase 1) Covington, Kenton County, Kentucky” dated September 2015, sealed by a P.E.

The District received approval from the Division of Water on March 25, 2015 (see attached letter).

Easements and Right-of-Way Status – No Easements were needed for this project and all right-of-way statements have been submitted (permits attached).

Start date of construction – January 2016

Proposed date in service – July 2016

Plant retirements – There are no retirements as a result of this project.

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

PLAN REVIEW AND PERMIT STATUS

Approval Letter from Kentucky Division of Water

Approval Letter from Kentucky Department of Transportation



STEVEN L. BESHEAR
GOVERNOR

LEONARD K. PETERS
SECRETARY

ENERGY AND ENVIRONMENT CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

200 FAIR OAKS LANE, 4TH FLOOR

FRANKFORT, KENTUCKY 40601

www.kentucky.gov

March 25, 2015

Mr. Jeff Schuchter
Northern KY Water District
2835 Crescent Springs Rd
Erlanger, KY 41018

RE: Northern KY Water District
AI # 2485, APE20150003
PWSID # 0590220-15-003
Madison Pike 24-inch Hyd/Redundancy
Kenton County, KY

Dear Mr. Schuchter:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 5,600 LF of 24-inch DIP water line. 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.

If you have any questions concerning this project, please contact Mr. Fred Sarabi at 502-564-3410 extension 4825.

Sincerely,

Mark Rasche, P.E.
Supervisor, Engineering Section
Water Infrastructure Branch
Division of Water

MR:FS

Enclosures

C: Bayer-Becker (by e-mail only)
Northern Kentucky District (Kenton County) Health Department (by e-mail only)
Public Service Commission (by e-mail only)
Division of Plumbing (by e-mail only)



TRANSPORTATION CABINET

Steven L. Beshear
Governor

Department of Highways District 6 Office
421 Buttermilk Pike
Covington, KY 41017
(859) 341-2700

Michael W. Hancock, P.E.
Secretary

June 2, 2015

Northern Kentucky Water District
2835 Crescent Springs Rd.
Erlanger, KY 41018

SUBJECT: Kenton, MP – 15.8-16.6
Route No. 17
Permit Number 06-2015-00369

Dear Applicant:

Your application for an encroachment permit has been approved by the Department of Highways. We are returning two copies of the approved permit so one may be kept in your records files. The other copy must be given to the party responsible for completing the project and must be kept at the jobsite at all times.

Please see that the work is done in strict conformity with the permit and any other applicable conditions. (See Form TC99-21 and any other attached documents, conditions or specifications). The work should be completed no later than 06/30/16. When the permitted work and any necessary restoration have been completed please notify this office by using the attached form which will serve as a notification for final inspection.

If there are any question regarding this permit, please do not hesitate to contact Matt Bogen at 859-341-2700 or fax number 859-341-6729.

Sincerely,

Robert A. Hans, P.E.
Chief District Engineer
Department of Highways
District 6- Covington
421 Buttermilk Pike
Covington, KY 41017



NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

BID INFORMATION AND BOARD RESOLUTION

Bid Tabulation

Engineer's Recommendation of Award

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

Bid Tabulation

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

Engineer's Recommendation of Award



Where Creativity
Meets Functionality

Civil Engineers | Transportation Engineers | Landscape Architects | Planners | Land Surveyors

September 14, 2015

Mr. John Scheben
Northern Kentucky Water District
2835 Crescent Springs Road
Erlanger, KY 41018

**RE: Madison Pike 24-inch Water Main Redundancy Project (Phase 1)
KY 17 (Madison Pike) - Mary Laidley Road to Hands Pike
Bid Recommendation/Tabulation
Covington, Kenton County, KY**

Dear John,

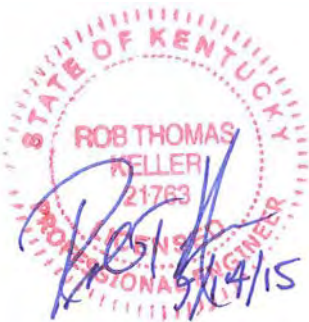
I have reviewed the bids received for the above-mentioned project in the City of Covington. As indicated on the attached bid tabulation, Lykins Contracting, Inc. is the low bidder of the ten (10) bids received at a price of \$1,095,292.00. This cost is approximately 8% below our engineer's estimate of \$1,192,146.00.

Lykins Contracting is a qualified and reputable contractor. Based on the Water District's past project experience with Lykins, it is our recommendation that they be awarded the contract for the Madison Pike 24-inch Redundancy Project (Phase 1).

Please review the above and attached and contact me to discuss any questions you may have.

Sincerely,

Rob T. Keller, P.E., LEED AP
Senior Project Manager



6900 Tylersville Road, Suite A
Mason, OH 45040
513-336-6600

318 South College Avenue
Oxford, OH 45056
513-523-4270

1404 Race Street, Suite 204
Cincinnati, OH 45202
513-834-6151

209 Grandview Drive
Fort Mitchell, KY 41017
859-261-1113

<http://www.bayerbecker.com>

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

Board Meeting Minutes

**Northern Kentucky Water District
Board of Commissioners
Regular Meeting
September 17, 2015**

A regular meeting of the Board of Commissioners of the Northern Kentucky Water District was held on September 17, 2015 at the District's facility located at 2835 Crescent Springs Road, Erlanger, Kentucky. All Commissioners were present, except for Commissioner Collins. Also present were Ronald Lovan, Jack Bragg, Steve Broering, Amy Kramer, Chris Bryant and Brian Dunham.

Chairperson Sommerkamp called the meeting to order at 12:40 p.m., and _____ led the pledge of allegiance.

The Commissioners reviewed correspondence received and articles published since the last board meeting, which was a Regular Meeting on August 20, 2015.

On motion of Commissioner Wagner, seconded by Commissioner Cunningham, the Commissioners unanimously approved the minutes for the Regular Board of Commissioners meeting held on August 20, 2015.

The Board was provided a copy of the District's check registers, which included the check number, check date, payee, check amount and description of the reason for each payment, detailing the District's expenditures for the period August 1, 2015 through August 31, 2015. On motion of Commissioner Cunningham, seconded by Commissioner Spaulding, and after discussion, the Commissioners unanimously approved the expenditures of the District for the month of August, 2015.

On motion of Commissioner Spaulding, seconded by Commissioner Cunningham, the Commissioners unanimously approved the District's acceptance of the bid by and awarding a contract to Lykins Contracting, Inc., for the Madison Pike Phase 1 Hydraulic Improvement Project with a project budget of \$1,991,000, and authorized staff to execute the appropriate documents.

On motion of Commissioner Macke, seconded by Commissioner Wagner, the Commissioners unanimously approved the District's acceptance of the bid by and awarding a contract to Wessel Lawn Care, for the annual snow and ice removal at District facilities for one year with two one-year options to extend at the District's discretion, and authorized staff to execute the appropriate documents.

On motion of Commissioner Macke, seconded by Commissioner Wagner, the Commissioners unanimously approved the District's acceptance of the bid by and awarding a contract to Jack Gemmer & Sons, Inc., for the Washington Avenue and Vine Street Water Main Replacement Project with a project budget of \$350,000, and authorized staff to execute the appropriate documents.

On motion of Commissioner Wagner, seconded by Commissioner Cunningham, the Commissioners unanimously approved the District's acceptance of the bid by and awarding a contract to Paymentus, for the Electronic Bill Presentment and Payment Absorbed Fee model bid, including Alternate D of the bid, for a single one-year term with the option to extend at the District's discretion for up to four additional one-year terms, and authorized staff to execute the appropriate documents.

The Commissioners reviewed the District's financial reports and Department reports. As part of her report, Ms. Kramer reviewed with the Commissioners the status of on-going projects within the 2014 5-Year Capital Budget and operating budget, including providing an update on the two change orders incurred since the last board meeting.

Other matters of a general nature were discussed.

On a motion of Commissioner Spaulding, seconded by Commissioner Wagner, the Board unanimously agreed to go into executive session under the provisions of KRS 61.810(1)(c) to discuss pending or proposed litigation against the District and to protect the District's legal interests and strategy in connection with such litigation. The executive session commenced at 2:04 p.m. and ended at 2:55 p.m.

On a motion by Commissioner Spaulding, seconded by Commissioner Cunningham, the meeting was adjourned at 2:55 p.m.

CHAIRMAN

SECRETARY

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

PROJECT FINANCE INFORMATION

Customers Added and Revenue Effect

Debt Issuance and Source of Debt

Additional Costs for Operating and Maintenance

USoA Plant Account

Depreciation Cost and Debt Service After Construction

Northern Kentucky Water District

Customers Added and Revenue Effect: There are no new customers anticipated.

Debt Issuance and Source of Debt: The project will be funded by a future BAN with an estimated budget of \$1,991,000 from the 2015 5-Year Capital Budget by PSC Ref No. 178, Page 40, "Madison Pike from Mary Laidley to Hands Pike (Phase 1)". The total project budget is \$1,991,000 which includes construction cost, engineering, materials, and contingencies. A summary of the project costs is provided below:

○ Engineering	\$ 62,837.00
○ Contractor's Bid	\$ 1,095,292.00
○ Misc. & Contingencies	\$ 828,904.75
Total Project Cost	\$ 1,991,000.00

USoA Accounts: The anticipated amounts for the project cost of \$1,991,000.00 will fall under the following Uniform System of Accounts Codes:

Code 331 "Transmission & Distribution Mains"	\$ 1,973,286
Code 334 "Meter & Meter Installation "	\$ 0
Code 335 "Hydrants"	\$ 17,714

Additional Costs and O&M: No additional operating and maintenance costs are anticipated from the project.

Depreciation and Debt Service: Annual depreciation and debt service after construction are as follows:

Depreciation: \$31,572/year over 62.5 years for water mains
\$354/year over 50 years for fire hydrants

Debt Service: \$120,802.00 over 25 years (conventional 3.5% loan).

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

SCHEDULE OF MORTGAGES, BONDS, NOTES, AND
OTHER INDEBTEDNESS

Northern Kentucky Water District		
Bonds & Notes		
8/31/2015		
Bonds		
USDA 2000	\$1,873,000	
Series 2006	\$22,105,000	
Series 2009	\$24,030,000	
Series 2011	\$27,380,000	
Series 2012	\$49,440,000	
Series 2013A	\$25,155,000	
Series 2013B	\$20,200,000	
Series 2014B	\$13,805,000	
	\$183,988,000	
KIA Currently Servicing		
F06-03	\$2,869,088	
C08-01	\$3,422,562	
F08-07	\$3,542,538	
F9-02	\$22,006,610	
F13-012	\$2,607,064	
Total KIA	\$34,447,862	
Notes		
Taylor Mill	\$400,000	Non-Interest Note
Deferred Note	\$100,000	

Account 221, BONDS

Line No.	Par Value of Actual Issue 1	Cash Realized on Actual Issue 2	Par Value of Amount Held by or for Respondent 3	Actually Outstanding at Close of year 4	Interest During Year	
					Accrued 5	Actually Paid 6
1	11,225,000	11,131,694		-	-	-
2	11,355,000	11,141,619		-	-	-
3	2,287,000	2,287,000		1,913,000	96,283	96,600
4	16,325,000	15,835,250		-	-	-
5	45,485,000	44,121,624		-	-	-
6	10,575,000	10,525,204		-	-	-
7	1,615,000	1,583,553		-	-	-
8	30,270,000	30,068,115		-	-	-
9	23,790,000	23,532,357		-	386,186	568,346
10	10,455,000	10,195,116		-	328,504	468,495
11	29,000,000	28,736,444		23,045,000	964,685	979,685
12	29,290,000	27,430,236		24,810,000	1,414,162	1,426,662
13	30,830,000	28,862,016		28,280,000	1,189,650	1,200,587
14	54,840,000	-		51,315,000	2,533,400	2,563,400
15	26,400,000	25,807,113		25,785,000	1,106,351	1,111,476
16	24,120,000	-		22,120,000	1,036,360	933,408
17	15,805,000	-		15,805,000	63,918	-
Total	373,667,000	271,257,341	-	193,073,000	9,119,499	9,348,659

Schedule of Bond Maturities

Line No.	Bond Numbers 7	Maturity Date 8	Interest Rate 9	Principal Amount 10	Amount Paid 11	Remaining Bonds Outstanding 12
1						
2	See Attachments 23.1 Through 23.10					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

Northern Kentucky Water Service District
FmHA Loan \$2,287,000 - 2000

Attachment 23.01

Year	Maturity Date	Interest Rate	Principal Amount	Amounts Paid	Outstanding
2000			0.00	0.00	0.00
2001			0.00	0.00	0.00
2002			21,000.00	21,000.00	0.00
2003			22,000.00	22,000.00	0.00
2004			24,000.00	24,000.00	0.00
2005			24,000.00	24,000.00	0.00
2006			26,000.00	26,000.00	0.00
2007			27,000.00	27,000.00	0.00
2008			28,000.00	28,000.00	0.00
2009			30,000.00	30,000.00	0.00
2010			31,000.00	31,000.00	0.00
2011			33,000.00	33,000.00	0.00
2012			34,000.00	34,000.00	0.00
2013			36,000.00	36,000.00	0.00
2014			38,000.00	38,000.00	0.00
2015			40,000.00		40,000.00
2016			42,000.00		42,000.00
2017			44,000.00		44,000.00
2018			46,000.00		46,000.00
2019			49,000.00		49,000.00
2020			51,000.00		51,000.00
2021			54,000.00		54,000.00
2022			56,000.00		56,000.00
2023			59,000.00		59,000.00
2024			62,000.00		62,000.00
2025			65,000.00		65,000.00
2026			68,000.00		68,000.00
2027			72,000.00		72,000.00
2028			75,000.00		75,000.00
2029			79,000.00		79,000.00
2030			83,000.00		83,000.00
2031			87,000.00		87,000.00
2032			92,000.00		92,000.00
2033			96,000.00		96,000.00
2034			102,000.00		102,000.00
2035			107,000.00		107,000.00
2036			112,000.00		112,000.00
2037			118,000.00		118,000.00
2038			124,000.00		124,000.00
2039			130,000.00		130,000.00
Totals			2,287,000.00	374,000.00	1,913,000.00

Northern Kentucky Water Service District
Bond Issue: \$23,790,000.00 Dated 12/18/2003

Attachment 23.02

Bond Number	Maturity Date	Interest Rate	Principal Amount	Amounts Paid	Outstanding
Registered	2/1/2004	2.00%	1,430,000.00	1,430,000.00	0.00
Registered	2/1/2005	2.00%	1,160,000.00	1,160,000.00	0.00
Registered	2/1/2006	2.00%	1,180,000.00	1,180,000.00	0.00
Registered	2/1/2007	2.25%	1,215,000.00	1,215,000.00	0.00
Registered	2/1/2008	2.50%	1,235,000.00	1,235,000.00	0.00
Registered	2/1/2009	2.75%	1,270,000.00	1,270,000.00	0.00
Registered	2/1/2010	3.00%	1,305,000.00	1,305,000.00	0.00
Registered	2/1/2011	3.25%	1,350,000.00	1,350,000.00	0.00
Registered	2/1/2012	3.50%	1,395,000.00	1,395,000.00	0.00
Registered	2/1/2013	3.50%	1,445,000.00	1,445,000.00	0.00
Registered	2/1/2014	4.00%	1,505,000.00	1,505,000.00	0.00
Registered	Defeased 12/23/2014		9,300,000.00	9,300,000.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
TOTALS			23,790,000.00	23,790,000.00	0.00

Northern Kentucky Water Service District				Attachment 23.03	
Bond Issue	\$10,455,000.00	11/18/2024			
Bond Number	Maturity Date	Interest Rate	Principal Amount	Amounts Paid	Outstanding
Registered	2/1/2005	2.000%	270,000.00	270,000.00	0.00
Registered	2/1/2006	2.000%	275,000.00	275,000.00	0.00
Registered	2/1/2007	2.125%	285,000.00	285,000.00	0.00
Registered	2/1/2008	2.375%	290,000.00	290,000.00	0.00
Registered	2/1/2009	2.625%	295,000.00	295,000.00	0.00
Registered	2/1/2010	3.000%	305,000.00	305,000.00	0.00
Registered	2/1/2111	3.000%	315,000.00	315,000.00	0.00
Registered	2/1/2012	3.250%	325,000.00	325,000.00	0.00
Registered	2/1/2013	3.375%	335,000.00	335,000.00	0.00
Registered	2/1/2014	3.500%	345,000.00	345,000.00	0.00
Registered	2/1/2015	4.000%	7,415,000.00	7,415,000.00	0.00
Registered	Defeased 12/23/2014		0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
Registered			0.00	0.00	0.00
TOTALS			10,455,000.00	10,455,000.00	0.00

Northern Kentucky Water Service District				Attachment 23.04	
Bond Issue	9/1/2006	\$29,000,000.00			
Bond	Maturity	Interest	Principal	Amounts	Outstanding
Number	Date	Rate	Amount	Paid	
Registered	2/1/2007	4.000%	300,000.00	300,000.00	0.00
Registered	2/1/2008	4.000%	720,000.00	720,000.00	0.00
Registered	2/1/2009	4.000%	750,000.00	750,000.00	0.00
Registered	2/1/2010	4.000%	775,000.00	775,000.00	0.00
Registered	2/1/2111	4.000%	805,000.00	805,000.00	0.00
Registered	2/1/2012	4.000%	835,000.00	835,000.00	0.00
Registered	2/1/2013	4.000%	870,000.00	870,000.00	0.00
Registered	2/1/2114	4.000%	900,000.00	900,000.00	0.00
Registered	2/1/2115	4.000%	940,000.00		940,000.00
Registered	2/1/2116	4.000%	980,000.00		980,000.00
Registered	2/1/2117	4.000%	1,020,000.00		1,020,000.00
Registered	2/1/2118	4.000%	970,000.00		970,000.00
Registered	2/1/2119	4.000%	1,010,000.00		1,010,000.00
Registered	2/1/2020	4.125%	1,320,000.00		1,320,000.00
Registered	2/1/2021	4.125%	1,205,000.00		1,205,000.00
Registered	2/1/2022	4.125%	1,255,000.00		1,255,000.00
Registered	2/1/2023	4.125%	1,420,000.00		1,420,000.00
Registered	2/1/2024	4.125%	1,375,000.00		1,375,000.00
Registered	2/1/2025	4.125%	1,440,000.00		1,440,000.00
Registered	2/1/2027	4.250%	3,075,000.00		3,075,000.00
Registered	2/1/2029	4.250%	3,360,000.00		3,360,000.00
Registered	2/1/2031	4.273%	3,675,000.00		3,675,000.00
TOTALS			29,000,000.00	5,955,000.00	23,045,000.00

Northern Kentucky Water Service District				Attachment 23.05	
Bond Issue	01/06/09	\$29,290,000.00			
Bond	Maturity	Interest	Principal	Amounts	Outstanding
Number	Date	Rate	Amount	Paid	
Registered	2/1/2009	3.750%	1,000,000.00	1,000,000.00	0.00
Registered	2/1/2010	3.750%	645,000.00	645,000.00	0.00
Registered	2/1/2011	3.750%	670,000.00	670,000.00	0.00
Registered	2/1/2012	3.750%	695,000.00	695,000.00	0.00
Registered	2/1/2013	3.750%	720,000.00	720,000.00	0.00
Registered	2/1/2014	4.000%	750,000.00	750,000.00	0.00
Registered	2/1/2015	4.125%	780,000.00		780,000.00
Registered	2/1/2016	4.250%	815,000.00		815,000.00
Registered	2/1/2017	4.750%	850,000.00		850,000.00
Registered	2/1/2018	5.000%	895,000.00		895,000.00
Registered	2/1/2019	5.000%	940,000.00		940,000.00
Registered	2/1/2020	5.125%	990,000.00		990,000.00
Registered	2/1/2021	5.250%	1,040,000.00		1,040,000.00
Registered	2/1/2022	5.375%	1,100,000.00		1,100,000.00
Registered	2/1/2023	5.500%	1,160,000.00		1,160,000.00
Registered	2/1/2024	5.700%	1,225,000.00		1,225,000.00
Registered	2/1/2025	5.775%	1,300,000.00		1,300,000.00
Registered	2/1/2027	5.750%	1,375,000.00		1,375,000.00
Registered	2/1/2029	6.000%	1,460,000.00		1,460,000.00
Registered	2/1/2031	6.000%	1,550,000.00		1,550,000.00
Registered	2/1/2029	6.000%	1,645,000.00		1,645,000.00
Registered	2/1/2030	6.000%	1,745,000.00		1,745,000.00
Registered	2/1/2031	6.000%	1,855,000.00		1,855,000.00
Registered	2/1/2032	6.500%	1,975,000.00		1,975,000.00
Registered	2/1/2033	6.500%	2,110,000.00		2,110,000.00
TOTALS			29,290,000.00	4,480,000.00	24,810,000.00

Northern Kentucky Water Service District				Attachment 23.06	
Bond Issue	05/31/11	\$30,830,000.00			
Bond	Maturity	Interest	Principal	Amounts	Outstanding
Number	Date	Rate	Amount	Paid	
Registered	2/1/2012	3.000%	825,000.00	825,000.00	0.00
Registered	2/1/2013	3.000%	850,000.00	850,000.00	0.00
Registered	2/1/2114	3.000%	875,000.00	875,000.00	0.00
Registered	2/1/2115	3.000%	900,000.00		900,000.00
Registered	2/1/2116	3.000%	930,000.00		930,000.00
Registered	2/1/2117	3.000%	960,000.00		960,000.00
Registered	2/1/2118	3.000%	985,000.00		985,000.00
Registered	2/1/2119	3.000%	1,015,000.00		1,015,000.00
Registered	2/1/2020	4.000%	1,055,000.00		1,055,000.00
Registered	2/1/2021	4.000%	1,095,000.00		1,095,000.00
Registered	2/1/2022	4.000%	1,140,000.00		1,140,000.00
Registered	2/1/2023	4.000%	1,185,000.00		1,185,000.00
Registered	2/1/2024	4.000%	1,235,000.00		1,235,000.00
Registered	2/1/2025	4.000%	1,285,000.00		1,285,000.00
Registered	2/1/2027	4.125%	1,340,000.00		1,340,000.00
Registered	2/1/2029	4.250%	1,395,000.00		1,395,000.00
Registered	2/1/2031	4.250%	1,460,000.00		1,460,000.00
Registered	2/1/2029	4.250%	1,520,000.00		1,520,000.00
Registered	2/1/2030	4.500%	1,590,000.00		1,590,000.00
Registered	2/1/2031	4.500%	1,660,000.00		1,660,000.00
Registered	2/1/2032	5.000%	3,580,000.00		3,580,000.00
Registered	2/1/2033	5.000%	3,950,000.00		3,950,000.00
TOTALS			30,830,000.00	2,550,000.00	28,280,000.00

Northern Kentucky Water Service District				Attachment 23.07	
Bond Issue	06/21/12	\$54,840,000.00			
Bond	Maturity	Interest	Principal	Amounts	Outstanding
Number	Date	Rate	Amount	Paid	
Registered	2/1/2013	4.000%	1,725,000.00	1,725,000.00	0.00
Registered	2/1/2014	4.000%	1,800,000.00	1,800,000.00	0.00
Registered	2/1/2015	4.000%	1,875,000.00		1,875,000.00
Registered	2/1/2016	4.000%	1,960,000.00		1,960,000.00
Registered	2/1/2017	5.000%	2,530,000.00		2,530,000.00
Registered	2/1/2018	5.000%	3,475,000.00		3,475,000.00
Registered	2/1/2019	5.000%	3,650,000.00		3,650,000.00
Registered	2/1/2020	5.000%	4,150,000.00		4,150,000.00
Registered	2/1/2021	5.000%	4,365,000.00		4,365,000.00
Registered	2/1/2022	5.000%	4,590,000.00		4,590,000.00
Registered	2/1/2023	5.000%	4,720,000.00		4,720,000.00
Registered	2/1/2024	5.000%	4,970,000.00		4,970,000.00
Registered	2/1/2025	5.000%	5,220,000.00		5,220,000.00
Registered	2/1/2026	5.000%	5,495,000.00		5,495,000.00
Registered	2/1/2027	5.000%	4,315,000.00		4,315,000.00
TOTALS			54,840,000.00	3,525,000.00	51,315,000.00

Northern Kentucky Water Service District			2013A	Attachment 23.08	
Bond Issue	01/27/13	\$26,400,000.00			
Bond	Maturity	Interest	Principal	Amounts	Outstanding
Number	Date	Rate	Amount	Paid	
Registered	2/1/2014	2.000%	615,000.00	615,000.00	0.00
Registered	2/1/2015	2.000%	630,000.00		630,000.00
Registered	2/1/2016	3.000%	645,000.00		645,000.00
Registered	2/1/2017	3.000%	665,000.00		665,000.00
Registered	2/1/2018	4.000%	685,000.00		685,000.00
Registered	2/1/2019	5.000%	720,000.00		720,000.00
Registered	2/1/2020	5.000%	755,000.00		755,000.00
Registered	2/1/2021	5.000%	795,000.00		795,000.00
Registered	2/1/2022	5.000%	835,000.00		835,000.00
Registered	2/1/2023	5.000%	880,000.00		880,000.00
Registered	2/1/2024	5.000%	925,000.00		925,000.00
Registered	2/1/2025	5.000%	970,000.00		970,000.00
Registered	2/1/2026	5.000%	1,020,000.00		1,020,000.00
Registered	2/1/2027	4.000%	1,070,000.00		1,070,000.00
Registered	2/1/2028	4.000%	1,110,000.00		1,110,000.00
Registered	2/1/2029	4.000%	1,155,000.00		1,155,000.00
Registered	2/1/2030	4.000%	1,205,000.00		1,205,000.00
Registered	2/1/2031	4.125%	1,255,000.00		1,255,000.00
Registered	2/1/2032	4.500%	2,680,000.00		2,680,000.00
Registered	2/1/2033	4.250%	1,430,000.00		1,430,000.00
Registered	2/1/2034	4.125%	1,490,000.00		1,490,000.00
Registered	2/1/2035	4.125%	1,555,000.00		1,555,000.00
Registered	2/1/2036	4.250%	1,620,000.00		1,620,000.00
Registered	2/1/2037	4.250%	1,690,000.00		1,690,000.00
TOTALS			26,400,000.00	615,000.00	25,785,000.00

Northern Kentucky Water Service District			2013B	Attachment 23.09	
Bond Issue	06/21/12	\$24,120,000.00			
Bond Number	Maturity Date	Interest Rate	Principal Amount	Amounts Paid	Outstanding
Registered	2/1/2014	5.000%	2,000,000.00	2,000,000.00	0.00
Registered	2/1/2015	5.000%	1,920,000.00		1,920,000.00
Registered	2/1/2016	5.000%	2,020,000.00		2,020,000.00
Registered	2/1/2017	5.000%	1,645,000.00		1,645,000.00
Registered	2/1/2018	5.000%	1,170,000.00		1,170,000.00
Registered	2/1/2019	5.000%	1,230,000.00		1,230,000.00
Registered	2/1/2020	5.000%	1,295,000.00		1,295,000.00
Registered	2/1/2021	5.000%	1,355,000.00		1,355,000.00
Registered	2/1/2022	5.000%	1,430,000.00		1,430,000.00
Registered	2/1/2023	5.000%	1,500,000.00		1,500,000.00
Registered	2/1/2024	4.000%	1,570,000.00		1,570,000.00
Registered	2/1/2025	4.000%	1,635,000.00		1,635,000.00
Registered	2/1/2026	4.000%	1,700,000.00		1,700,000.00
Registered	2/1/2027	5.000%	1,780,000.00		1,780,000.00
Registered	2/1/2028	5.000%	1,870,000.00		1,870,000.00
TOTALS			24,120,000.00	2,000,000.00	22,120,000.00

Northern Kentucky Water Service District			2014B	Attachment 23.10	
Bond Issue	12/23/14	\$15,805,000.00			
Bond Number	Maturity Date	Interest Rate	Principal Amount	Amounts Paid	Outstanding
Registered	2/1/2015	5.000%	2,000,000.00		2,000,000.00
Registered	2/1/2016	5.000%	1,850,000.00		1,850,000.00
Registered	2/1/2017	5.000%	1,940,000.00		1,940,000.00
Registered	2/1/2018	5.000%	1,880,000.00		1,880,000.00
Registered	2/1/2019	5.000%	1,980,000.00		1,980,000.00
Registered	2/1/2020	5.000%	1,505,000.00		1,505,000.00
Registered	2/1/2021	5.000%	440,000.00		440,000.00
Registered	2/1/2022	5.000%	465,000.00		465,000.00
Registered	2/1/2023	3.000%	485,000.00		485,000.00
Registered	2/1/2024	3.000%	495,000.00		495,000.00
Registered	2/1/2025	4.000%	515,000.00		515,000.00
Registered	2/1/2026	4.000%	540,000.00		540,000.00
Registered	2/1/2027	3.000%	550,000.00		550,000.00
Registered	2/1/2028	3.000%	570,000.00		570,000.00
Registered	2/1/2029	3.125%	590,000.00		590,000.00
TOTALS			15,805,000.00	0.00	15,805,000.00

NORTHERN KENTUCKY
WATER DISTRICT

Project

*Madison Pike, Mary Laidley to Hands Pike, 24-inch
Hydraulic Redundancy Project (Phase 1)
Covington, Kenton County, Kentucky*

184-0731

CURRENT BALANCE SHEET AND
INCOME STATEMENT



**Balance Sheet
As of August 31, 2015**

Assets	2015	2014
Current Assets		
Cash and Cash Equivalents	\$20,799,221	\$22,474,376
Accrued Interest Receivable	\$11,310	\$1,834
Accounts Receivable Customers	\$3,390,372	\$3,830,365
Accounts Receivable Unbilled Customers	\$5,900,000	\$5,700,000
Accounts Receivable Other	\$174,193	\$89,398
Assessments Receivable	\$117,464	\$110,953
Inventory Supplies for New Installation and Maintenance, at Cost	\$1,410,654	\$1,390,220
Prepaid Expenses	<u>\$1,784,240</u>	<u>\$1,295,291</u>
Total Current Assets	\$33,587,454	\$34,892,437
Restricted Assets		
Bond Proceeds Fund	\$4,654,885	\$6,092,750
Debt Service Reserve Account	\$18,317,850	\$18,309,892
Debt Service Account	\$11,206,347	\$10,012,552
Improvement, Repair, & Replacement	\$1,020,056	\$6,022,517
Boone/Florence Settlement Account	<u>\$0</u>	<u>\$308,222</u>
Total Restricted Assets	\$35,199,138	\$40,745,933
Non Current Assets		
Miscellaneous Deferred Charges	(\$5,162,651)	(\$4,467,626)
Capital Assets:		
Land, System, Buildings, and Equipment	\$439,651,108	\$430,374,083
Construction in Progress	\$29,722,935	\$22,754,410
Total Capital Assets before Accumulated Depreciation	\$469,374,043	\$453,128,493
Less: Accumulated Depreciation	<u>(\$129,000,057)</u>	<u>(\$119,184,695)</u>
Capital Assets Net of Accumulated Depreciation	\$340,373,986	\$333,943,798
Total Noncurrent Assets	<u>\$335,211,335</u>	<u>\$329,476,172</u>
Total Assets	<u>\$403,997,927</u>	<u>\$405,114,542</u>



Balance Sheet
As of August 31, 2015

Liabilities and Retained Earnings	2015	2014
Current Liabilities		
Current Portion of Long Term Debt	\$10,268,041	\$10,058,530
Accounts Payable	\$2,919,326	\$2,177,053
Accrued Payroll & Liabilities	\$483,701	\$396,485
Other Accrued Liabilities	<u>\$101,101</u>	<u>\$97,441</u>
Total Current Liabilities	\$13,772,169	\$12,729,509
Current Liabilities From Restricted Assets		
Accounts Payable	\$548,395	\$1,012,441
Accrued Interest Payable	<u>\$1,004,442</u>	<u>\$1,034,987</u>
Total Current Liabilities From Restricted Assets	\$1,552,837	\$2,047,428
Long Term Debt		
Long Term Portion of Bonded Indebtedness	\$208,342,820	\$217,892,344
Bond Anticipation Notes Payable	\$0	\$0
Note Payable-Taylor Mill Purchase	\$225,000	\$400,000
Deferred Note Payable	<u>\$100,000</u>	<u>\$100,000</u>
Total Long Term Debt	\$208,667,820	\$218,392,344
Total Liabilities	\$223,992,826	\$233,169,281
Retained Earnings	<u>\$180,005,101</u>	<u>\$171,945,261</u>
Total Liabilities and Retained Earnings	<u>\$403,997,927</u>	<u>\$405,114,542</u>



Income and Expenses Report-Detail
For the Eight Months ending August 31, 2015

	August 2015	August 2014	August Budget	Variance Over (Under)	YTD 2015	YTD 2014	YTD Budget	Variance Over (Under)
Operating Income								
Water Sales	\$3,276,840	\$3,318,446	\$3,436,048	-4.6%	\$30,199,975	\$30,235,752	\$31,279,652	-3.5%
Forfeited Discounts	\$70,733	\$72,566	\$74,380	-4.9%	\$562,240	\$571,967	\$566,265	-0.7%
Rents from Water Property	\$45,818	\$25,488	\$30,000	52.7%	\$380,068	\$374,197	\$383,000	-0.8%
Other Water Revenues	\$46,365	\$39,150	\$40,520	14.4%	\$240,260	\$228,485	\$244,940	-1.9%
Total Operating Income	\$3,439,756	\$3,455,650	\$3,580,948	-3.9%	\$31,382,543	\$31,410,401	\$32,473,857	-3.4%
Non Operating Income								
Interest Income	\$65,676	\$79,598	\$75,000	-12.4%	\$525,331	\$545,749	\$542,000	-3.1%
Miscellaneous	\$29,067	\$9,757	\$10,470	177.6%	\$111,019	\$95,393	\$103,475	7.3%
Total Non Operating Income	\$94,743	\$89,355	\$85,470	10.8%	\$636,350	\$641,142	\$645,475	-1.4%
Boone Florence Settlement Transfer	\$0	\$25,610	\$0	#DIV/0!	\$0	\$204,880	\$0	#DIV/0!
Total Income	\$3,534,499	\$3,570,615	\$3,666,418	-3.6%	\$32,018,893	\$32,256,423	\$33,119,332	-3.3%
O&M Expenses								
Source of Supply, Water								
Treatment, Pumping, & Storage	\$918,520	\$968,241	\$1,013,324	-9.4%	\$7,671,034	\$7,586,822	\$8,296,493	-7.5%
Engineering & Distribution	\$500,577	\$585,278	\$564,852	-11.4%	\$4,637,704	\$4,900,789	\$4,617,736	0.4%
Customer Service	\$212,029	\$293,080	\$322,974	-34.4%	\$2,203,195	\$2,224,025	\$2,439,556	-9.7%
Administration	\$324,159	\$262,979	\$285,239	13.6%	\$2,348,828	\$2,287,982	\$2,440,662	-3.8%
Total O&M Expenses	\$1,955,285	\$2,109,578	\$2,186,389	-10.6%	\$16,860,761	\$16,999,618	\$17,794,447	-5.2%
Transfer to Debt Service	\$1,680,000	\$1,600,000	\$1,680,000	0.0%	\$13,440,000	\$12,800,000	\$13,440,000	0.0%
Total Expenses	\$3,635,285	\$3,709,578	\$3,866,389	-6.0%	\$30,300,761	\$29,799,618	\$31,234,447	-3.0%
Avail. to Transfer to Oper. Capital	(\$100,786)	(\$138,963)	(\$199,971)	0.0%	\$1,718,132	\$2,456,805	\$1,884,885	-8.8%