COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

MAR 28 2007

PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF NORTHERN KENTUCKY WATER DISTRICT FOR A CERTIFICATE OF CONVENIENCE AND NECESSITY FOR THE CONSTRUCTION OF SUB DISTRICT G WATER MAIN EXTENSIONS, FINANCING AND SURCHARGE	)	CASE NO. 2007- 00131

PETITION

Northern Kentucky Water District (Northern), by counsel, petitions the Commission for an order authorizing the construction of various water main extensions in an area to be known as Sub District G, financing of the project, approval of a surcharge for the customers to be served by these extensions and approval of the creation of the sub district. The following information is filed in accordance with the Commission's regulations:

1. Northern's office address is 2835 Crescent Spring Rd., Box 18640, Erlanger, KY 41018-0640. Its principal officers are listed in its current Annual Report, which is filed with the Commission as are its prior years Reports;

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

3. A description of Northern's water system and its property stated at original cost by accounts is contained in its Annual Report, Exhibit G. All required financial schedules and other data are in that Exhibit and Exhibit H;

4. Northern serves retail customers in Kenton and Campbell Counties and sells water at wholesale to several non-affiliated water distribution systems in Kenton, Boone and Campbell Counties.

5. The proposed project is necessary to provide service to unincorporated areas of Kenton County and to maintain quality water service to the general area of Kenton County. The District seeks an order allowing the formation of the sub district associated with the construction approved in the order. The purpose of the sub district is to aggregate sufficient customers to make the extension of facilities to the residents of the affected areas feasible. There are limited areas in Northern's service area that are unserved. A map of unserved areas is included with Exhibit A. Those areas are widely separated and sparsely populated. As can be seen, the estimated 1,300 households without access to a potable water distribution system are widely dispersed. By combining the proposed areas into sub district G, the District is able to provide water service to high density areas which helps spread the cost among sufficient customers to make the project financially feasible for the District and affordable to the residents. This is the same methodology the District has used for other sub district projects.

The District has always used household density as the primary criterion for the establishment of a sub district. In order to maximize the number of customers served with the limited dollars available from all funding sources, the District determines where the highest number of households per mile can be feasibly served. The cost per mile of any extension dictates that the District maximize the number of customers served along each extension. Because of the limited resources available to extend our service, the District attempts to get the most value from each dollar spent.

6. The construction is in the public interest and is required to allow Northern to continue to provide adequate service to its customers;

7. The total construction cost is approximately $4,538,007.00. Total project cost is 5,520,822.00. See Exhibits A and F. The reference in Exhibit E that the project cost will exceed $7 million was based on the original engineering estimates. The bids received were significantly lower, which explains the difference in these original cost estimate and the actual cost of the project. All project costs will be included in NARUC Account 331- Transmission and Distribution Mains. The bids have been received and must be accepted by June 2, 2007.

8. Easements are being obtained and finalized for the facilities;

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

10. Based on these facts, Northern believes that it is in the public interest that this certificate be granted.

11. General rates to Northern's customers are not affected by this project. No adjustment of rates is being requested. If approved, the customers in the areas designated as sub district G would pay the District's tariffed rate, plus $30.00 per month for water service. This $30.00 surcharge is the same as is typically applied to the District's other sub districts. Because many of these customers are served by wells or cisterns, the $30.00 per month surcharge is generally less than the cost of water deliveries per month.

In contrast to the relatively inexpensive cost of water service to customers based on the proposed sub district, there is a very large and often prohibitive cost to those residents if the sub district is not approved. The alternative to extending facilities to these residents by virtue of the sub district financing, is the extension of facilities pursuant to the District's main line extension tariff. That tariff allows the District to initiate the extension of mains, but only if the customer pays for 100 feet of the main extension based on the cost of an eight inch main. The cost each customer in

the proposed sub district G would be forced to pay approximately $7,000. That payment is a lump sum required to be made at the time of application for service. The District believes that such payments are prohibitive for most residents and discourage the extension of potable water service, which has a direct impact on the public health by depriving unserved rural areas of safe, clean, readily accessible potable water. The general rate customers benefit form the revenue generated by the sub district customers and from the lower debt cost that results from grants and government subsidized loans.

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

a. Articles of Incorporation - None, Northern is a statutorily created water district under KRS Chapter 74;

13. 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 Exhibits A, B, and C. The funds obtained in a number of prior sub districts were predicated on the economic status of the affected areas' residents. The funds in this case are not so encumbered. There is no low/moderate income funding associated with this project. No customers or areas have been designated a part of this sub district based on income criteria.

The common geographic characteristics of the proposed sub district G are the same common geographic characteristics with each other and with the residents of the prior sub districts: they are all rural, remote from existing water distribution facilities, lack fire protection and rely on wells or cisterns.

b. No new franchises are required. Copies of permits, including the DOW permit are attached as Exhibit D;

c. Diagrams of the proposed construction and construction specifications,

description of the location, route, description of facilities, manner of construction are all included in the preliminary and final engineering reports attached as Exhibit C;

d. Maps of the area showing location of the proposed facilities are in Exhibit C;

e. The construction costs will be funded from several sources as detailed in Exhibit F. $3 million from KIA, $50,000 from Kenton Fiscal Court, $750,000 from NKWD BANS and previously approved bonds, Case 2005-00148, Case 2003-00224, NKWD hydraulic upgrade contribution, which is the difference between the cost of an 8 inch main and a 12 inch main, and customer surcharge contributions.

f. Additional operating costs for operation and maintenance are minimal due to the relative size of the project;

g. Description the facilities and operation of the system is in Exhibit C. A current hydraulic analysis is included in Exhibit C;

14. 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, Exhibit G;

b. Financing and sources of funds for the project are described in Exhibits C and F;

c. All funds are to be used for the construction of the proposed water main extensions as described in Exhibits A and C;

d. The property to be constructed is described in Exhibits A and C;

e. The funds are not for refunding or refinancing existing debt

f. There are no trust deeds or mortgages;

g. No property is to be acquired;

h. No stock has been or will be issued;

i. All existing bonds are listed in Exhibits G and H;

j. All existing notes are listed in Exhibits G and H;

k. All other indebtedness is listed in Exhibits G and H;

l. No dividends have been paid or accrued;

m. A balance sheet and income statement are included in Exhibits G and H;

15. Customer notice of the proposed project, proposed tariff and surcharge are attached as Exhibit E;

16. A copy of this petition has been served on the Attorney General;

19. Northern requests that it be granted a deviation under 807 KAR 5:001(14), if necessary to accommodate any situation where inflexible compliance with a regulation would be impracticable, onerous or which would hinder the District's daily operations, including the filing of financial data less than 90 days old. The December 31, 2005 information is representative of the District's current operations.

For these reasons, Northern requests that it be granted an order prior to June 2, 2007 authorizing creation and construction of the sub district G facilities, financing as proposed and an imposition of a surcharge on sub district G customers.

SUBMITTED BY:

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

ATTORNEY FOR NORTHERN
KENTUCKY WATER DISTRICT

CERTIFICATE OF SERVICE:

I certify that a copy of this Petition was served on the parties listed below by First Class mail the day of 28th of March, 2007.

David Spenard
Assistant Attorney General
1024 Capital Center Drive

NORTHERN KENTUCKY
WATER DISTRICT

Project – Sub District G

Campbell County
184-193

NORTHERN KENTUCKY WATER DISTRICT

Sub District G Water Main Extension

EXHIBIT	TITLE
A	Project Description
B	Copy of Approving Board Meeting Minutes and KIA Agreements
C	ENGINEERING REPORTS Engineer's Letters of Recommendation, Engineer's Final Estimate of Cost, Project Hydraulic Analysis, Project Area Map, Plans and Specifications.
D	Certified statement from an authorized utility Official confirming: (1) That the proposed plans and specifications for the project have been designed to meet the minimum 807 Kar 5:066, Section 5 (3) and (4), section 6(1) through (3), Section 10 (1) and the section 11 (2) That all other state approvals have already been obtained (3) Dates when construction will begin and end
E	Copy of Rate Schedule, Customer Notice and Proposed Tariff
F	Sources of Construction Funds
G	2005 Northern Kentucky Water District Annual Report for Class-A and Class-B Water Districts
H	Current Schedule of Outstanding Bonds, Note and Other Indebtedness, Balance Sheet and Income Statement

Case No. 200-00131
Exhibit A

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Project Description

Sub District G Water Main Extension
Project 184-193

Project Description:

The proposed project, divided into four phases for bidding purposes, involves approximately 14,520 LF of 24-inch, 5,658 LF of 12-inch, 33,548 LF of 8-inch and 1,784 LF of 6-inch water main in the following areas of Kenton County, Kentucky:

Phase 1 - Banklick Road, Bramlage Road & Independence Road

Phase 2 - Klein Road, Estate Lane & Petty Road

Phase 3 - Misty Lane, Pleasure Isle, Bullock Pen, Cody Road, Upton Drive & Webster Road

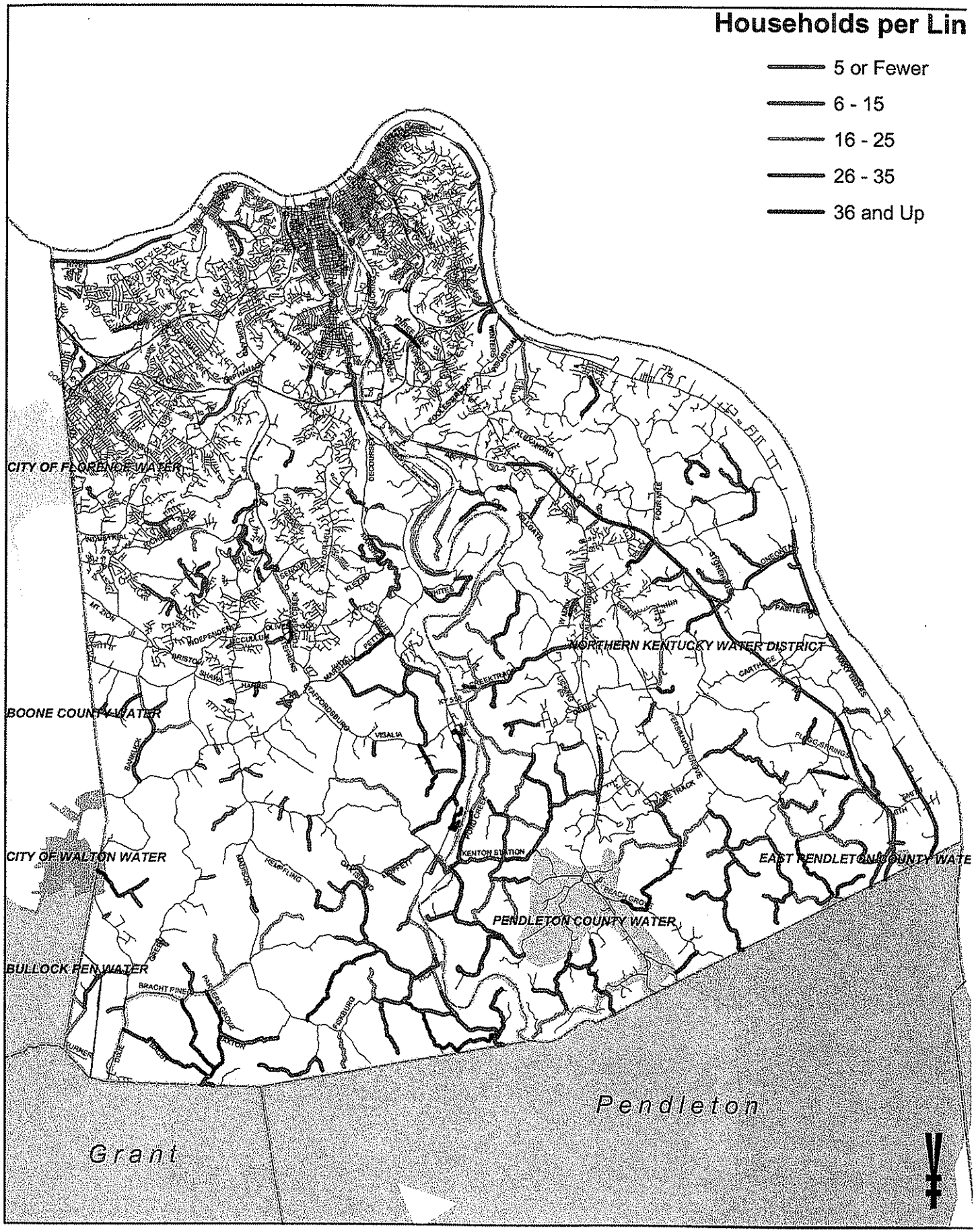
Phase 4 - Fowler Creek, Sugar Camp Road, Lieberman Road, Wolf Road & Holly Hock Road

This project will extend 8 inch, 12 inch and 24" water mains to make public water available to 258 residences in rural areas that currently have no access to public water supply. These areas were chosen based on population density. The estimated cost of the total project is $7,063,591.40. There is no low/moderate income requirements for the financing of this project, therefore, income levels are not a factor in the selection of geographic areas. All areas included in the project have similar characteristics of rural location, sparse population density, lack of potable water supply and inability to connect to a water distribution system without the extension of these water lines.

Street Name	Total Residents	Total Signups	% Signups
Bramlage Road	26	17	65%
Bullock Pen Road	20	12	60%
Fowler Creek Road	20	3	15%
Klein Road	38	14	37%
Petty/Pruett Roads	25	10	40%
Pleasure Isle Drive	13	9	69%
Estate Lane	10	8	80%
Banklick Road (Maher to Walton-Nicholson	42	19	45%
Independence Road (Banklick to end of existing)	4	3	75%
Cody Road (Upton Drive to end of existing)	9	5	56%
Upton Road (Cody to Dead End)	5	3	60%
Webster Road (Lafesgrove to Dead End)	10	3	30%
Sugar Camp (Fowler Creek to End of Existing)	5	3	60%
Wolf Road (Decoursey to Valley View)	13	3	23%
Hollyhock Road (Wolf Road to dead end)	6	4	67%
Lieberman Road (Lipscomb Road to dead end)	12	7	58%
Totals	**258**	**123**	**48%**

Bidding for the project was advertised February 16, 2007 and bids were opened on March 5, 2007. The bids will expire on June 3, 2007.

NORTHERN KENTUCKY WATER DISTRICT
UNSERVED AREAS



Case No. 200-00131
Exhibit B

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Approving Board Of Commissioners
Meeting Minutes and
KIA Grant Approval Letters

Northern Kentucky Water District
Board of Commissioners Meeting
January 19, 2006

A regular meeting of the Board of Commissioners of the Northern Kentucky Water District was held on January 19, 2006 at the District's Aqua Drive office. All Commissioners were present. Also present were Ron Lovan, Richard Harrison, Bari Joslyn, Mark Lofland, Jack Bragg, Bill Wulfeck, Mary Carol Wagner, Jim Dierig, Bob Buhrlage, Amy Kramer, Don Gibson, Scott Shepherd, Connie Pangburn, Don Fritz, Adam Davey and Charles Pangburn.

Commissioner Koester called the meeting to order.

Commissioner Wagner led those in attendance in the Pledge of Allegiance.

Mr. Lofland and Mr. Harrison of the District staff delivered a presentation to the Board on the District's Rates, Rules and Regulations.

The Board recognized Commissioner Wagner for his two years of leadership and service as Chair of the Board of Commissioners.

The Board reviewed articles published and correspondence received since the last regular Board meeting on December 15, 2005.

Mr. Fritz and Mr. Davey of Von Lehman & Company, Inc. presented the results of their internal control review of the District.

On motion of Commissioner Collins, seconded by Commissioner Sommerkamp, the Board unanimously approved the minutes for the regular Board meeting held on December 15, 2005.

On motion of Commissioner Wagner, seconded by Commissioner Collins, and after discussion, the Board unanimously approved the expenditures of the District for the month of December, 2005.

On motion of Commissioner Jackson, seconded by Commissioner Collins, and after discussion, the Board unanimously agreed to award a contract for lightweight uniform apparel to Van Dyne Crotty, Inc. and to authorize the execution of contract documents.

On motion of Commissioner Wagner, seconded by Commissioner Sommerkamp, and after discussion, the Board unanimously agreed to authorize an increase in the Redstone Road Water Main Extension project budget to $114,200.00, to award the project to United Plumbing & Sewer Repair, and to authorize the execution of contract documents.

On motion of Commissioner Wagner, seconded by Commissioner Collins, and after discussion, the Board unanimously agreed to award a contract for the construction of bulk water

fill stations on Johns Hill Road, Aqua Drive and Decoursey Pike and at a fourth location near Piner to Krebs Construction and to authorize the execution of contract documents.

On motion of Commissioner Collins, seconded by Commissioner Wagner, and after discussion, the Board unanimously agreed to award a contract, with a possible one-year extension, to Ranger Construction Services, Inc. for new water service installation and to authorize the execution of contract documents

On motion of Commissioner Wagner, seconded by Commissioner Jackson, all Commissioners except Commissioner Collins agreed to authorize the execution of an agreement with DNS Properties, LLC for the extension of water service. Commissioner Collins abstained from the vote.

On motion of Commissioner Sommerkamp, seconded by Commissioner Wagner, and after discussion, the Board unanimously agreed to authorize the execution of engineering contract documents with Thelen Associates for the design of the Subdistrict F Water Main Extension project.

On motion of Commissioner Collins, seconded by Commissioner Macke, and after discussion, the Board unanimously agreed to authorize the execution of engineering contract documents with Viox & Viox, Inc. for the design of the Subdistrict G Water Main Extension project, including the Banklick Road addendum.

On motion of Commissioner Wagner, seconded by Commissioner Jackson, and after discussion, the Board unanimously agreed to authorize the purchase of Steelcase office furniture for the new Central Facility from Loth.

On motion of Commissioner Wagner, seconded by Commissioner Macke, and after discussion, the Board unanimously agreed to authorize the execution of engineering contract documents with EMH&T Inc. for the performance of construction phase services for the new .75 MG Claryville Tank project, including the repainting and rehabilitation of the South County Tank.

On motion of Commissioner Collins, seconded by Commissioner Sommerkamp, and after discussion, the Board unanimously agreed to award the 2006 asphalt restoration contract to Hall's Paving and Sealing and to authorize the execution of contract documents.

The Board reviewed the District's financial reports and department reports.

The Board agreed to move the regular meeting in June 2006 from June 15, 2006 to June 23, 2006.

Other matters of a general nature were discussed.

On motion of Commissioner Wagner, seconded by Commissioner Jackson, the Board unanimously agreed to go into executive session under the provisions of KRS 61.810(1)(f) to discuss a personnel matter.

Mr. Pangburn departed the meeting.

The Board returned to open session.

On motion of Commissioner Wagner, seconded by Commissioner Collins, the Board unanimously agreed to authorize and direct Commissioner Koester to execute an amendment to Mr. Lovan's employment agreement incorporating changes specified by the Board.

There being no further business to come before the Board, the meeting was adjourned.

CHAIR

SECRETARY

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KENTUCKY INFRASTRUCTURE AUTHORITY

Ernie Fletcher
Governor

1024 Capital Center Drive, Suite 340
Frankfort, Kentucky 40601
Phone (502) 573-0260
Fax (502) 573-0157
http://kia.ky.gov

Jody E. Hughes
Executive Director

AUG 25 2006

August 21, 2006

Mr. Richard Harrison, President
Northern Kentucky Water District
P.O. Box 17010
Covington, Kentucky 41017

RE: Infrastructure for Economic Development Fund For Tobacco Producing Counties (2005)
Northern Kentucky Water District WX21037004 - $1,000,000 - Subdistrict G

Dear Richard:

Enclosed please find a copy of the fully executed Grant Assistance Agreement for the above referenced grant. I have also attached a checklist indicating the status of documents submitted to date. All items under Step 1 have been submitted. The following item remains outstanding for Step 2:

- As-bid Budget

In order to release funds, we will need the as-bid budget. All pay requests with supporting invoices are to be submitted to the Authority by the 10th of each month on the **Request for Payment and Project Status Report Form (Exhibit 8).**

Please note, Step 3 – Project Closeout items remain outstanding. Thank you.

Sincerely,

Debby L. Milton
Kentucky Infrastructure Authority

Attachment

Northern Kentucky Water District
Board of Commissioners Meeting
March 15, 2007

A regular meeting of the Board of Commissioners of the Northern Kentucky Water District was held on March 15, 2007 at the District's facility located at 2835 Crescent Springs Road in Erlanger, Kentucky. All Commissioners except Commissioner Sommerkamp were present. Commissioner Sommerkamp participated by speaker telephone. Also present were Ron Lovan, Bari Joslyn, Richard Harrison, Mark Lofland, Jack Bragg, Bill Wulfeck, Don Gibson, Amy Kramer, Jim Dierig, Bob Buhrlage, Scott Shepherd, Frances Robinson, Cathy Penick, Vince Gabbert, Brad Montgomery, Michelle Howlett, Roger Peterman, Mike Hammons, Mike Phillips and Charles Pangburn.

Commissioner Koester called the meeting to order.

Commissioner Jackson led those in attendance in the Pledge of Allegiance.

Ms. Howlett of GRW Engineers presented a commissioner training session on generators.

Mr. Hammons and Mr. Phillips of Vision 2015 delivered a presentation on the Licking River Greenway project.

The Board reviewed articles published and correspondence received since the last regular Board meeting on February 15, 2007.

On motion of Commissioner Macke, seconded by Commissioner Jackson, the Board unanimously approved the minutes for the regular Board meeting held on February 15, 2007.

On motion of Commissioner Macke, seconded by Commissioner Collins, and after discussion, the Board unanimously approved the expenditures of the District for the month of February, 2007.

On motion of Commissioner Sommerkamp, seconded by Commissioner Jackson, and after discussion, the Board unanimously agreed to award the contract for durable outdoor uniform apparel, with options to renew the contract for up to two additional one year terms, to National Workwear and to authorize the District staff to execute appropriate contract documents.

On motion of Commissioner Collins, seconded by Commissioner Jackson, and after discussion, the Board unanimously agreed to award the Lower Tug Fork Road water main replacement project to Jack Gemmer & Sons and to authorize the District staff to execute appropriate contract documents.

On motion of Commissioner Wagner, seconded by Commissioner Jackson, and after discussion, the Board unanimously agreed to award the East Alexandria Pike 12-inch water main replacement project to G&T Excavating and to authorize the District staff to execute appropriate contract documents.

On motion of Commissioner Collins, seconded by Commissioner Jackson, and after discussion, the Board unanimously approved a resolution accepting assignment of a Kentucky Infrastructure Authority grant for project number WX21037561 from the City of Wilder and authorizing an amendment to the budget and a District representative to execute all related documents.

On motion of Commissioner Wagner, seconded by Commissioner Jackson, and after discussion, the Board unanimously agreed to award Phase I of the Subdistrict G water main extension project to Howell Contractors, Phases II and III of the project to G.M. Pipeline, Inc. and Phase IV of the project to Hartman & Smith Construction Company and to authorize the District staff to execute appropriate contract documents.

On motion of Commissioner Sommerkamp, seconded by Commissioner Wagner, and after discussion, the Board unanimously agreed to award the contract for the purchase of five sodium hypochlorite pumps to Watson-Marlow and to authorize the District staff to execute appropriate contract documents.

On motion of Commissioner Collins, seconded by Commissioner Jackson, and after discussion, the Board unanimously agreed to award the Licking River intake traveling screen project to Building Crafts Inc. and to authorize the District staff to execute appropriate contract documents.

On motion of Commissioner Macke, seconded by Commissioner Wagner, and after discussion, the Board unanimously agreed to award the contract for the purchase of flowable fill concrete and class A concrete to Ideal Supplies Inc. and to authorize the District staff to execute appropriate contract documents.

On motion of Commissioner Macke, seconded by Commissioner Sommerkamp, and after discussion, the Board unanimously agreed to award contracts for construction restoration materials, and to authorize the District staff to execute appropriate contract documents, for the following materials from the vendors indicated:

Krebs Construction	#2 limestone, #4 limestone, #57 limestone, fill sand, natural sand
Hilltop Stone	channel lining-CLII
Bray Trucking	#610 limestone, limestone sand, winter asphalt mix (cold patch)

On motion of Commissioner Collins, seconded by Commissioner Jackson, and after discussion, the Board unanimously approved a resolution authorizing the issuance of approximately $30,000,000 principal amount of Water District Revenue Bonds Series 2009, designating the paying agent and registrar, authorizing and making certain improvements to the water system, approving the preparation of preliminary and final official statements and authorizing a continuing disclosure agreement and the issuance of a bond anticipation note (BAN) in the amount of up to $27,750,000 to fund 2006 and 2007 capital projects.

On motion of Commissioner Sommerkamp, seconded by Commissioner Jackson, and after discussion, the Board unanimously agreed to award the contract for building signs to Quality Signs & Service Co., Inc. and to authorize the District staff to execute appropriate contract documents.

The Board reviewed the District's financial reports and Department reports.

The Board discussed issues related to possibly transitioning from quarterly billing to monthly billing and also the possibility of conducting joint billing with Sanitation District No. 1.

Other matters of a general nature were discussed.

There being no further business to come before the Board, the meeting was adjourned.

CHAIRMAN

SECRETARY

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KLEER-FAX RECYCLED

80000 SERIES
30% P.C.W.

Case No. 200-00131
Exhibit C

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Engineer's Letters of Recommendation

Case No. 200-_____
Exhibit _____C_____

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Engineering Reports

Engineer's Letters of Recommendation

Engineers Final Estimate

System Hydraulic Model

Project Map

Project Specifications
(See Attached Specifications)

Since 1945

VIOX&VIOX
Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road
Erlanger, Kentucky 41018

Tel: 859.727.3293
Fax: 859.727.8452
www.vioxinc.com

March 6, 2007

Northern Kentucky Water District
P.O. Box 18640
2835 Crescent Springs Road
Erlanger, KY 41018

ATTN: Richard Harrison, P.E.

RE: Sub-District G – Phase 4
(Fowler Creek Road, Sugar Camp Road,
Lieberman Road, Wolf Road & Hollyhock Drive)

Dear Mr. Harrison,

We have reviewed the bids received March 5, 2007, for the Sub-District G – Phase 4 – Project on Fowler Creek Road, Sugar Camp Road, Lieberman Road, Wolf Road & Hollyhock Drive, Kenton County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was Howell Contractors with a bid of $1,144,948.28, but they have withdrawn their bid. Therefore, the low bidder is Hartman and Smith Construction Company with a bid of $1,306,178.00. Their bid is $245,556.00 under our estimate dated 2/13/07 and $42,145.00 less than the next lowest bid received. Three of the remaining five bids were over our estimate.

Hartman and Smith Construction Company has been a contractor for the NKWD in the past. Therefore, it is our recommendation that the contract should be awarded to them for $1,306,178.00.

Hopefully, this recommendation is sufficient for your Commission to make a decision.

Yours truly,

James H. Viox III, P.E., L.S.

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VIOX & VIOX
Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road
Erlanger, Kentucky 41018

Tel: 859.727.3293
Fax: 859.727.8452
www.vioxinc.com

March 6, 2007

Northern Kentucky Water District
P.O. Box 18640
2835 Crescent Springs Road
Erlanger, KY 41018

ATTN: Richard Harrison, P.E.

RE: Sub-District G – Phase 3
(Misty Lane, Pleasure Isle, Bullock Pen, Cody Road, Upton Drive, Cody Road (Flagstone Drive to CSX R/R) & Webster Road)

Dear Mr. Harrison,

We have reviewed the bids received March 5, 2007, for the Sub-District G – Phase 3 – Project on Misty Lane, Pleasure Isle, Bullock Pen, Cody Road, Upton Drive, Cody Road (Flagstone Drive to CSX R/R) & Webster Road, Kenton County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was G.M. Pipeline with a bid of $902,435.00, well under our estimate of $1,258,146.00 and $39,195.42 less than the second lowest bid received. Three of the eight bidders were over our estimate dated 2/13/07 and one other bidder was within four percent (4%) of the estimate. All of the roads on this Phase were anticipated to require some controlled density backfill along the edge of the pavement.

G.M. Pipeline has been a contractor for the NKWD in the past. Therefore, it is our recommendation that the contract should be awarded to them for $902,435.00.

Hopefully, this recommendation is sufficient for your Commission to make a decision.

Yours truly,

James H. Viox III, P.E., L.S.

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466 Erlanger Road
Erlanger, Kentucky 41018

Tel: 859.727.3293
Fax: 859.727.8452
www.vioxinc.com

March 6, 2007

Northern Kentucky Water District
P.O. Box 18640
2835 Crescent Springs Road
Erlanger, KY 41018

ATTN: Richard Harrison, P.E.

RE: Sub-District G – Phase 1
(Banklick Road, Bramlage Road & Independence Road)

Dear Mr. Harrison,

We have reviewed the bids received March 5, 2007, for the Sub-District G – Phase 1 – Project on Banklick Road, Bramlage Road & Independence Road, Kenton County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was Howell Contractors with a bid of $1,702,292.00, well under our estimate of $3,193,495.00 and $80,876.90 less than the second lowest bid received. All the bidders were under our estimate dated 2/13/07; however, six of the bidders were within nine percent (9 %) of our estimate.

Our estimate anticipated that controlled density backfill would be required on Bramlage Road and Independence Road, but the County ultimately did not require it. Therefore, significant cost savings occurred.

Howell Contractors has been a contractor for the NKWD in the past. Therefore, it is our recommendation that the contract should be awarded to them for $1,702,292.00.

Hopefully, this recommendation is sufficient for your Commission to make a decision.

Yours truly,

James H. Viox III, P.E., L.S.

ce 1945

VIOX & VIOX
Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road
Erlanger, Kentucky 41018

Tel: 859.727.3293
Fax: 859.727.8452
www.vioxinc.com

March 6, 2007

Northern Kentucky Water District
P.O. Box 18640
2835 Crescent Springs Road
Erlanger, KY 41018

ATTN: Richard Harrison, P.E.

RE: Sub-District G – Phase 2
(Klein Road, Estate Lane & Petty Road)

Dear Mr. Harrison,

We have reviewed the bids received March 5, 2007, for the Sub-District G – Phase 2 – Project on Klein Road, Estate Lane & Petty Road, Kenton County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was G.M. Pipeline with a bid of $627,101.93, well under our estimate of $1,060,216.00 and $20,345.07 less than the second lowest bid received. All but one of the bidders were under our estimate dated 2/13/07 and two other bids were within four percent (4%) of our estimate. In addition, all of the roads were anticipated to require controlled density backfill.

G.M. Pipeline has been a contractor for the NKWD in the past. Therefore, it is our recommendation that the contract should be awarded to them for $627,101.93.

Hopefully, this recommendation is sufficient for your Commission to make a decision.

Yours truly,

James H. Viox III, P.E., L.S.

Case No. 200-_____
Exhibit _____C_____

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Engineer's Final Estimate

Since 1945

VIOX&VIOX
Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road
Erlanger, Kentucky 41018

Tel: 859.727.3293
Fax: 859.727.8452
www.vioxinc.com

STATE OF KENTUCKY
JAMES H. VIOX III
6680
LICENSED PROFESSIONAL ENGINEER

ENGINEER'S ESTIMATE
SUB-DISTRICT G
PHASE 1
BANKLICK ROAD, BRAMLAGE ROAD, & INDEPENDENCE ROAD

ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
6.01 24" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	14520	$165.00	$2,395,800.00
6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	5955	$63.00	$375,165.00
8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	20	$3,000.00	$60,000.00
8.01HP INSTALL FIRE HYDRANT ASSEMBLY **{HIGH PRESSURE}**	EA	6	$3,500.00	$21,000.00
8.02 INSTALL FUTURE FIRE HYDRANT VALVE	EA	11	$875.00	$9,625.00
9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	4	$1,000.00	$4,000.00
9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	2	$1,800.00	$3,600.00
9.02 24" BUTTERFLY VALVE	EA	10	$9,000.00	$90,000.00
11.01 CONCRETE ENCASEMENT	LF	60	$80.00	$4,800.00
11.04 8" PLUG AND BLOCK	EA	2	$500.00	$1,000.00
11.05 AIR RELEASE VALVE {MATERIALS SUPPLIED BY NKWD}	EA	1	$2,000.00	$2,000.00
11.06 8"x8x"6" ANCHORING TEES AND BLOCKS	EA	10	$700.00	$7,000.00
11.06 24"x24x"6" ANCHORING TEES AND BLOCKS	EA	27	$2,000.00	$54,000.00
11.07 24"x24"x8" DUCTILE IRON TEE AND BLOCK	EA	3	$2,250.00	$6,750.00
11.07 24"x24"x24" DUCTILE IRON TEE AND BLOCK ***{CUT INTO EX. MAIN}***	EA	2	$6,500.00	$13,000.00
11.09 12"-8" REDUCER	EA	1	$1,000.00	$1,000.00
11.09 24"-12" REDUCER	EA	2	$3,500.00	$7,000.00
11.11 TEST TAP	EA	1	$250.00	$250.00
12.04 ASPHALTIC CONCRETE MILLING AND PAVING	SY	1835	$14.00	$25,690.00
12.05 ASPHALTIC CONCRETE	SY	718	$60.00	$43,080.00
12.06 ASPHALTIC DRIVEWAY	SY	555	$55.00	$30,525.00
12.09 CONCRETE DRIVEWAY	SY	297	$60.00	$17,820.00
12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	342	$45.00	$15,390.00
12.13 BEST MANAGEMENT PRACTICE	LS	1	$5,000.00	$5,000.00
TOTAL ESTIMATED COST				**$3,193,495.00**

VIOX&VIOX
Civil Engineers, Surveyors, and Landscape Architects
466 Erlanger Road
Erlanger, Kentucky 41018

Tel: 859.727.3293
Fax: 859.727.8452
www.vioxinc.com

STATE OF KENTUCKY
JAMES H. VIOX III
6880
LICENSED PROFESSIONAL ENGINEER
2/13/07

ENGINEER'S ESTIMATE
SUB-DISTRICT G
PHASE 2
KLEIN ROAD, ESTATE LANE & PETTY ROAD

ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	1000	$63.00	$63,000.00
6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	11527	$63.00	$726,201.00
8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	16	$3,000.00	$48,000.00
8.02 INSTALL FUTURE FIRE HYDRANT VALVE	EA	9	$875.00	$7,875.00
9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	9	$1,000.00	$9,000.00
11.01 CONCRETE ENCASEMENT	LF	40	$80.00	$3,200.00
11.04 8" PLUG AND BLOCK	EA	4	$500.00	$2,000.00
11.05 AIR RELEASE VALVE {MATERIALS SUPPLIED BY NKWD}	EA	2	$2,000.00	$4,000.00
11.06 8"x8x"6" ANCHORING TEES AND BLOCKS	EA	24	$700.00	$16,800.00
11.06 8"x8x"8" ANCHORING TEE AND BLOCK	EA	1	$700.00	$700.00
11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	2	$600.00	$1,200.00
11.09 8"-6" REDUCER	EA	1	$175.00	$175.00
11.11 TEST TAP	EA	1	$250.00	$250.00
12.04 ASPHALTIC CONCRETE MILLING AND PAVING	SY	3265	$14.00	$45,710.00
12.05 ASPHALTIC CONCRETE	SY	1307	$60.00	$78,420.00
12.06 ASPHALTIC DRIVEWAY	SY	75	$55.00	$4,125.00
12.09 CONCRETE DRIVEWAY	SY	274	$60.00	$16,440.00
12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	536	$45.00	$24,120.00
12.13 BEST MANAGEMENT PRACTICE	LS	1	$5,000.00	$5,000.00
12.15 CLEARING	LUMP		$4,000.00	$4,000.00
TOTAL ESTIMATED COST				**$1,060,216.00**

Since 1945

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Erlanger, Kentucky 41018

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STATE OF KENTUCKY
JAMES VIOX III
6880
LICENSED PROFESSIONAL ENGINEER

ENGINEER'S ESTIMATE
SUB-DISTRICT G
PHASE 3
MISTY LANE, PLEASURE ISLE, BULLOCK PEN, CODY ROAD, UPTON DRIVE, CODY ROAD (FLAGSTONE DRIVE TO CSX R/R) &WEBSTER ROAD

ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
6.01 6" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	539	$45.00	$24,255.00
6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11347	$63.00	$714,861.00
6.02 6" CLASS 50 DUCTILE IRON PIPE - INTERNAL RESTRAINED JOINT.	LF	36	$70.00	$2,520.00
6.02 8" CLASS 50 DUCTILE IRON PIPE - INTERNAL RESTRAINED JOINT.	LF	127	$88.00	$11,176.00
6.03 6" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	596	$45.00	$26,820.00
7.02 16"-8" TAPPING SLEEVE & VALVE	EA	1	$3,000.00	$3,000.00
8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	2	$3,000.00	$6,000.00
8.01HP INSTALL FIRE HYDRANT ASSEMBLY {HIGH PRESSURE}	EA	15	$3,500.00	$52,500.00
8.02 INSTALL FUTURE FIRE HYDRANT VALVE	EA	8	$875.00	$7,000.00
8.04 RELOCATE FIRE HYDRANT	EA	2	$2,000.00	$4,000.00
9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	5	$800.00	$4,000.00
9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	12	$1,000.00	$12,000.00
11.01 CONCRETE ENCASEMENT	LF	100	$80.00	$8,000.00
11.04 6" PLUG AND BLOCK	EA	3	$250.00	$750.00
11.04 8" PLUG AND BLOCK	EA	5	$500.00	$2,500.00
11.05 AIR RELEASE VALVE {MATERIALS SUPPLIED BY NKWD}	EA	1	$2,000.00	$2,000.00
11.06 6"x6x"6" ANCHORING TEES AND BLOCKS	EA	4	$650.00	$2,600.00
11.06 8"x8x"6" ANCHORING TEES AND BLOCKS	EA	24	$700.00	$16,800.00
11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	$600.00	$600.00
11.09 8"-6" REDUCER	EA	1	$175.00	$175.00
11.11 TEST TAP	EA	3	$250.00	$750.00
12.04 ASPHALTIC CONCRETE MILLING AND PAVING	SY	8338	$14.00	$116,732.00
12.05 ASPHALTIC CONCRETE	SY	2825	$60.00	$169,500.00
12.06 ASPHALTIC DRIVEWAY	SY	227	$55.00	$12,485.00
12.09 CONCRETE DRIVEWAY	SY	310	$60.00	$18,600.00
12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	248	$45.00	$11,160.00
12.13 BEST MANAGEMENT PRACTICE	LS	1	$5,000.00	$5,000.00
12.14 ASPHALT CONCRETE OVERLAY 2-1/2" OVERLAY	SY	2424	$5.10	$12,362.40
12.15 CLEARING	LUMP	1	$4,000.00	$4,000.00
DENSE GRADE AGGREGATE {6" DEPTH}	LUMP	1	$6,000.00	$6,000.00
TOTAL ESTIMATED COST				**$1,258,146.40**

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Fax: 859.727.8452
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STATE OF KENTUCKY
JAMES H. VIOX III
6880
LICENSED PROFESSIONAL ENGINEER

ENGINEER'S ESTIMATE
SUB-DISTRICT G
PHASE 4
FOWLER CREEK ROAD, SUGAR CAMP ROAD, LIEBERMAN ROAD, WOLF ROAD & HOLLYHOCK DRIVE

ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
6.01 6" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	240	$45.00	$10,800.00
6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5255	$63.00	$331,065.00
6.01 12" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5493	$82.00	$450,426.00
6.02 12" CLASS 50 DUCTILE IRON PIPE - INTERNAL RESTRAINED JOINT	LF	165	$107.00	$17,655.00
6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	1217	$63.00	$76,671.00
7.01 CONNECT TO EXISTING MAIN/TIE-IN (ALL SIZES)	EA	2	$600.00	$1,200.00
7.02 8" TAPPING SLEEVE & VALVE	EA	2	$1,500.00	$3,000.00
8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	4	$3,000.00	$12,000.00
8.01HP INSTALL FIRE HYDRANT ASSEMBLY **{HIGH PRESSURE}**	EA	12	$3,500.00	$42,000.00
8.02 INSTALL FUTURE FIRE HYDRANT VALVE	EA	6	$875.00	$5,250.00
8.04 RELOCATE FIRE HYDRANT	EA	2	$2,000.00	$4,000.00
9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	4	$800.00	$3,200.00
9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	9	$1,000.00	$9,000.00
9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	10	$1,800.00	$18,000.00
11.01 CONCRETE ENCASEMENT	LF	100	$80.00	$8,000.00
11.04 6" PLUG AND BLOCK	EA	1	$250.00	$250.00
11.04 8" PLUG AND BLOCK	EA	3	$500.00	$1,500.00
11.04 12" PLUG AND BLOCK	EA	1	$600.00	$600.00
11.05 AIR RELEASE VALVE {MATERIALS SUPPLIED BY NKWD}	EA	2	$2,000.00	$4,000.00
11.06 6"x6x"6" ANCHORING TEES AND BLOCKS	EA	1	$650.00	$650.00
11.06 8"x8x"6" ANCHORING TEES AND BLOCKS	EA	11	$700.00	$7,700.00
11.06 12"x12x"6" ANCHORING TEES AND BLOCKS	EA	12	$750.00	$9,000.00
11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	3	$600.00	$1,800.00
11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK	EA	1	$900.00	$900.00
11.07 12"x12"x12" DUCTILE IRON TEE AND BLOCK	EA	1	$1,200.00	$1,200.00
11.07 12"x12"x12" DUCTILE IRON TEE AND BLOCK ***{CUT INTO EX. MAIN}***	EA	2	$2,000.00	$4,000.00

ENGINEER'S ESTIMATE
SUB-DISTRICT G
PHASE 4
FOWLER CREEK ROAD, SUGAR CAMP ROAD, LIEBERMAN ROAD, WOLF ROAD & HOLLYHOCK DRIVE

ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST
11.09 8"-6" REDUCER	EA	1	$175.00	$175.00
11.09 12"-6" REDUCER	EA	4	$1,000.00	$4,000.00
11.09 16"-12"" REDUCER	EA	1	$2,000.00	$2,000.00
11.11 TEST TAP	EA	4	$250.00	$1,000.00
12.04 ASPHALTIC CONCRETE MILLING AND PAVING	SY	13658	$14.00	$191,212.00
12.05 ASPHALTIC CONCRETE	SY	4581	$60.00	$274,860.00
12.06 ASPHALTIC DRIVEWAY	SY	440	$55.00	$24,200.00
12.09 CONCRETE DRIVEWAY	SY	83	$60.00	$4,980.00
12.11 CONCRETE SIDEWALK	SY	35	$80.00	$2,800.00
12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	392	$45.00	$17,640.00
12.13 BEST MANAGEMENT PRACTICE	LS	1	$5,000.00	$5,000.00
TOTAL ESTIMATED COST				**$1,551,734.00**

Case No. 200-_____
Exhibit _____C_____

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

System Hydraulic Model

FIRE FLOW CERTIFICATION

Sub-District G - Phase 1
Unincorporated Kenton County
Kenton County, KY

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 H2ONET, the program available from MWHSoft. 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.

STATE OF KENTUCKY
Amy Kay Kramer
22412
12/12/06
LICENSED
PROFESSIONAL ENGINEER

HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

Sub-District G - Phase 1
Unincorporated Kenton County
Kenton County, KY

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.

The maximum flow rate that can reliably be supplied to the main and meet 20 psi in the system under maximum hour conditions is 7000 gpm on Banklick Road, 2725 gpm on Bramlage Road, and 2450 gpm on Independence Road. At least 30 psi can be maintained under the peak domestic demand for the 65 potential customers affected. The peak domestic demand using the D.R. Taylor formula for 65 potential new customers is 81 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 H2ONET, the program available from MWHSoft. 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 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 24" and 8" water mains.

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 Independence Tank was one-half full.

STATE OF KENTUCKY
Amy Kay Kramer
22412
LICENSED
PROFESSIONAL ENGINEER

Sub-District G - Phase 1
Unincorporated Kenton County, Kentucky
Output from H2ONET model - copied to Excel

Northern Kentucky Water District

Banklick Road, Bramlage Road, Independence Road

Maximum Hour Run, 65 Potential Customers = 81 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5379	10.1	810	1,075.21	114.97
5375	10.1	872	1,074.89	87.95
5371	10.1	807	1,074.90	116.13
5377	10.1	819	1,074.65	110.83
5365	10.1	920	1,070.81	65.37
5361	10.1	812	1,074.40	113.75
5383	10.1	850	1,073.93	97.07
5381	10.1	920	1,073.52	66.55

Banklick Road Flushing

Flushing velocity 2.5 fps for 24" pipe on Banklick Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5381	0	920	1,044.66	54.04
5383	0	850	1,047.40	85.57
5361	0	812	1,050.42	103.36
5377	0	819	1,051.61	100.84
5371	0	807	1,052.71	106.52
5379	0	810	1,054.07	105.81
5385	3,525.00	922	1,043.32	52.59

Pipe Information for flushing velocity at 2.5 fps for 24" pipe on Banklick Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9036	3,610.32	24	3,525.00	2.5	120
9046	1,305.63	24	3,525.00	2.5	120
9044	1,055.37	24	3,525.00	2.5	120
9038	2,904.16	24	3,525.00	2.5	120
9056	2,620.37	24	3,525.00	2.5	120
9034	1,138.20	24	3,525.00	2.5	120
9066	1,285.99	24	3,525.00	2.5	120

-valves closed to Walton Nicholson Road and Bramlage Road

Bramlage Road Flushing

Flushing velocity 2.5 fps for 8" pipe on Bramlage Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5361	392.00	812	1,040.25	98.95
5365	0	920	1,047.97	55.47

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Bramlage Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9058	2,042.24	8	-392	2.5	120
9060	2,757.50	8	-392	2.5	120

-valve closed to Banklick Road

Independence Road Flushing

Flushing velocity 2.5 fps for 8" pipe on Independence Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5375	392.00	872	1,080.53	90.4
5371	10.1	807	1,085.25	120.62

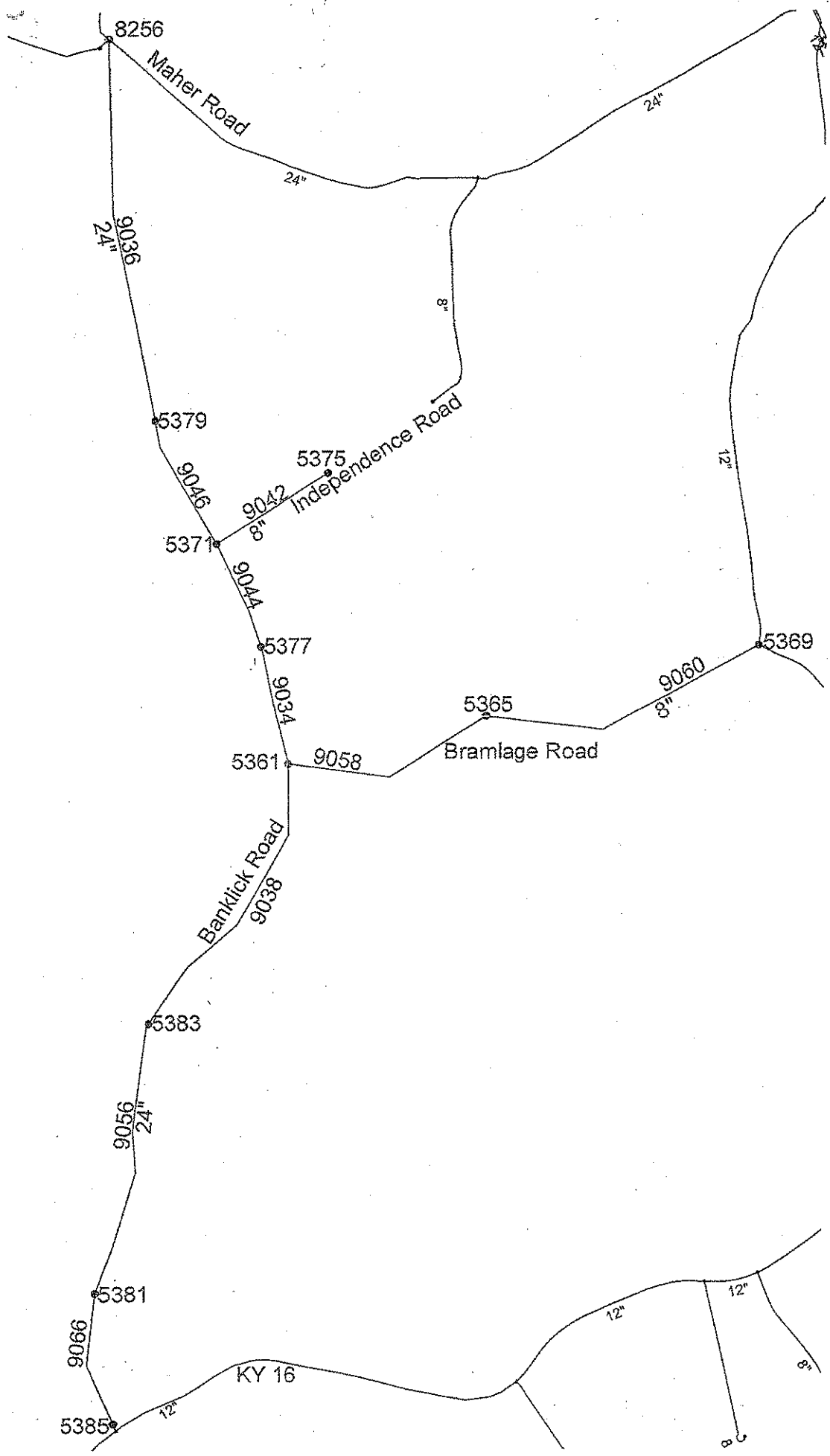
Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Independence Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9042	1,250.00	8	392	2.5	120

Maximum Hour Run, Maximum Available Flow on Banklick Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5381	7,000.00	920	973.47	23.18

Maximum Hour Run, Maximum Available Flow on Bramlage Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5365	2,725.00	920	967.76	20.7

Maximum Hour Run, Maximum Available Flow on Independence Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5375	2,450.00	872	919.9	20.77

Pipe ID	From Node	To Node
9036	8256	5379
9046	5379	5371
9044	5371	5377
9038	5361	5383
9056	5383	5381
9034	5377	5361
9066	5381	5385
9058	5361	5365
9060	5365	5369
9042	5371	5375


8256
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5375
Independence Road
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Bramlage Road
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Banklick Road
9038
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9066
KY 16
12"
5385
12"
12"
8"
8"

FIRE FLOW CERTIFICATION

Sub-District G - Phase 2
Klein Road, Estate Lane & Petty Road
Unincorporated Kenton County
Kenton County, KY

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 H2ONET, the program available from MWHSoft. 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.

STATE OF KENTUCKY
Amy Kay Kramer
22412
12/07
LICENSED
PROFESSIONAL ENGINEER

HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

Sub-District G - Phase 2
Klein Road, Estate Lane & Petty Road
Unincorporated Kenton County
Kenton County, KY

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.

The maximum flow rate that can reliably be supplied to the main and meet 20 psi in the system under maximum hour conditions is 875 gpm on Klein Road, 1525 gpm on Estate Lane, and 1100 gpm on Petty Road. At least 30 psi can be maintained under the peak domestic demand for the 73 potential customers affected. The peak domestic demand using the D.R. Taylor formula for 38 potential new customers on Klein Road is 62 gpm. The peak domestic demand using the D.R. Taylor formula for 10 potential new customers on Estate Lane is 32 gpm. The peak domestic demand using the D.R. Taylor formula for 25 potential new customers on Petty Road is 50 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 H2ONET, the program available from MWHSoft. 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 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 8" water mains.

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 Independence Tank was one-half full.

STATE OF KENTUCKY
Amy Kay Kramer
22412
1/2/07
LICENSED
PROFESSIONAL ENGINEER

Sub-District G - Phase 2
Klein Road, Estate Lane & Petty Road
Unincorporated Kenton County, Kentucky
Output from H2ONET model - copied to Excel

Northern Kentucky Water District

Maximum Hour Runs for Potential Customers

Klein Road

Maximum Hour Run, 38 Potential Customers = 62 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5361	31	880	1,056.14	76.36
5359	31	868	1,056.03	81.51

Estate Lane

Maximum Hour Run, 10 Potential Customers = 32 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5363	16	848	1,056.45	90.36
5365	16	877	1,056.46	77.8

Petty Road

Maximum Hour Run, 25 Potential Customers = 50 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5369	50	877	1,038.96	70.21
5367	0	827	1,040.94	92.74

Flushing Velocities Under Maximum Hour

Klein Road Flushing

Flushing velocity 2.5 fps for 8" pipe on Klein Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5361	31	880	1,033.54	66.56
5359	392	868	1,021.19	66.41

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Klein Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9018	1,715.50	8	423.00	2.7	120
9010	3,267.44	8	392.00	2.5	120

Estate Lane Flushing

Flushing velocity 2.5 fps for 8" pipe on Estate Lane (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5365	16.00	877	1,042.62	71.79
5363	392	848	1,038.80	82.71

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Estate Lane					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9020	470.92	8	408	2.6	120
9028	1,008.91	8	392	2.5	120

Petty Road Flushing

Flushing velocity 2.5 fps for 8" pipe on Petty Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5369	50.00	877	994.47	50.92
3641	392.00	824	983.74	69.25
5367	0	827	1,008.07	78.49

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Petty Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9034	2,840.24	8	392	2.5	**120**
9032	2,883.06	8	442	2.82	120

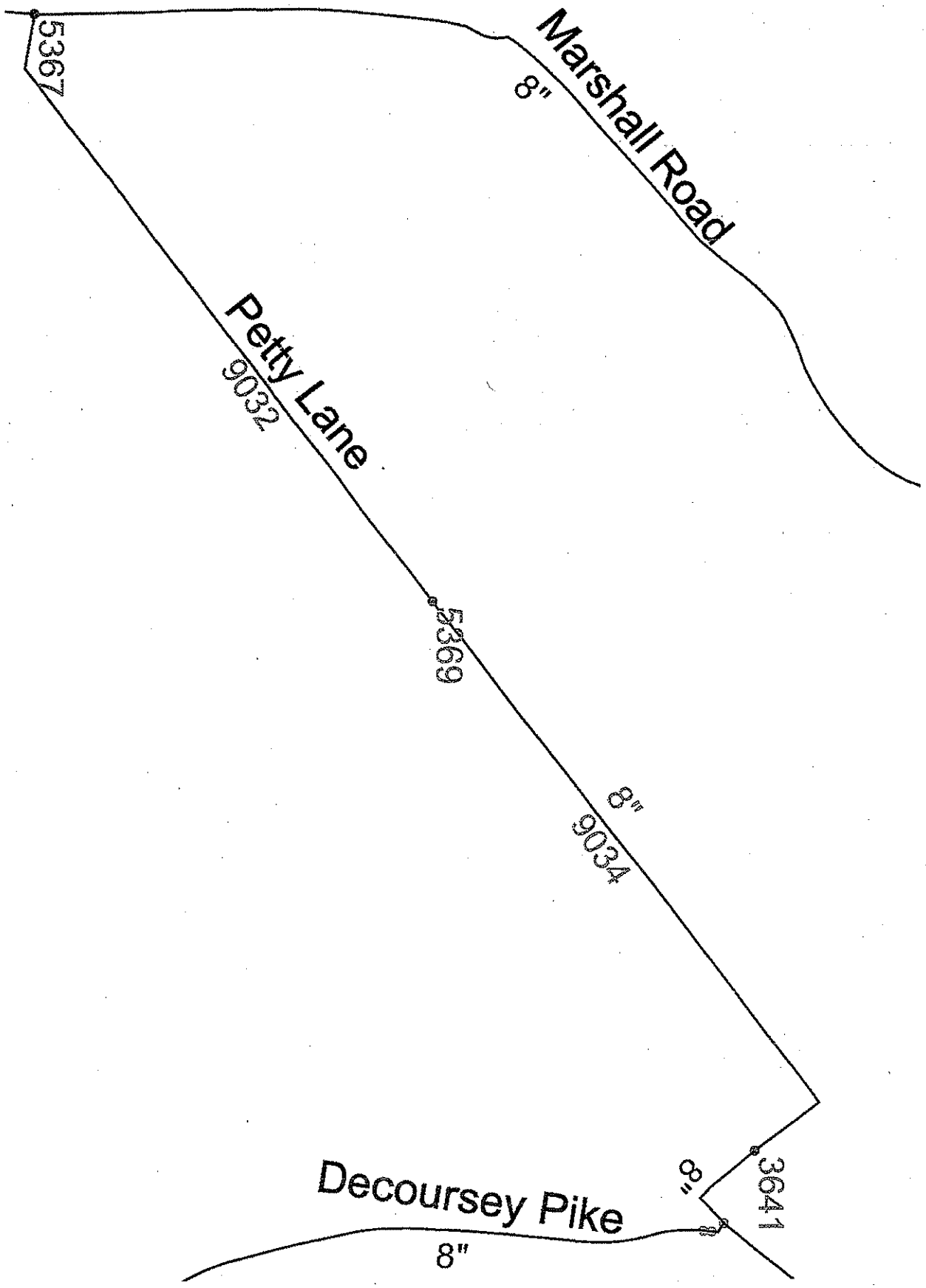
Maximum Available Flow Under Maximum Hour

Maximum Hour Run, Maximum Available Flow on Klein Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
8078	0.23	880	1,001.91	52.85
5361	31	880	971.39	39.62
5359	875.00	868	916.87	21.19

Maximum Hour Run, Maximum Available Flow on Estate Lane				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5363	1,525.00	848	895.18	20.45
5365	16	877	942.23	28.28
8072	0.23	874	964.61	39.28

Maximum Hour Run, Maximum Available Flow on Petty Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5369	1,100.00	877	925.11	20.86
3641	0.65	824	934.26	47.8
5367	0.00	827	960.42	57.84

Pipe ID	From Node	To Node
9018	8078	5361
9010	5361	5359
9028	5365	5363
9020	8072	5365
9032	5369	5367
9034	3641	5369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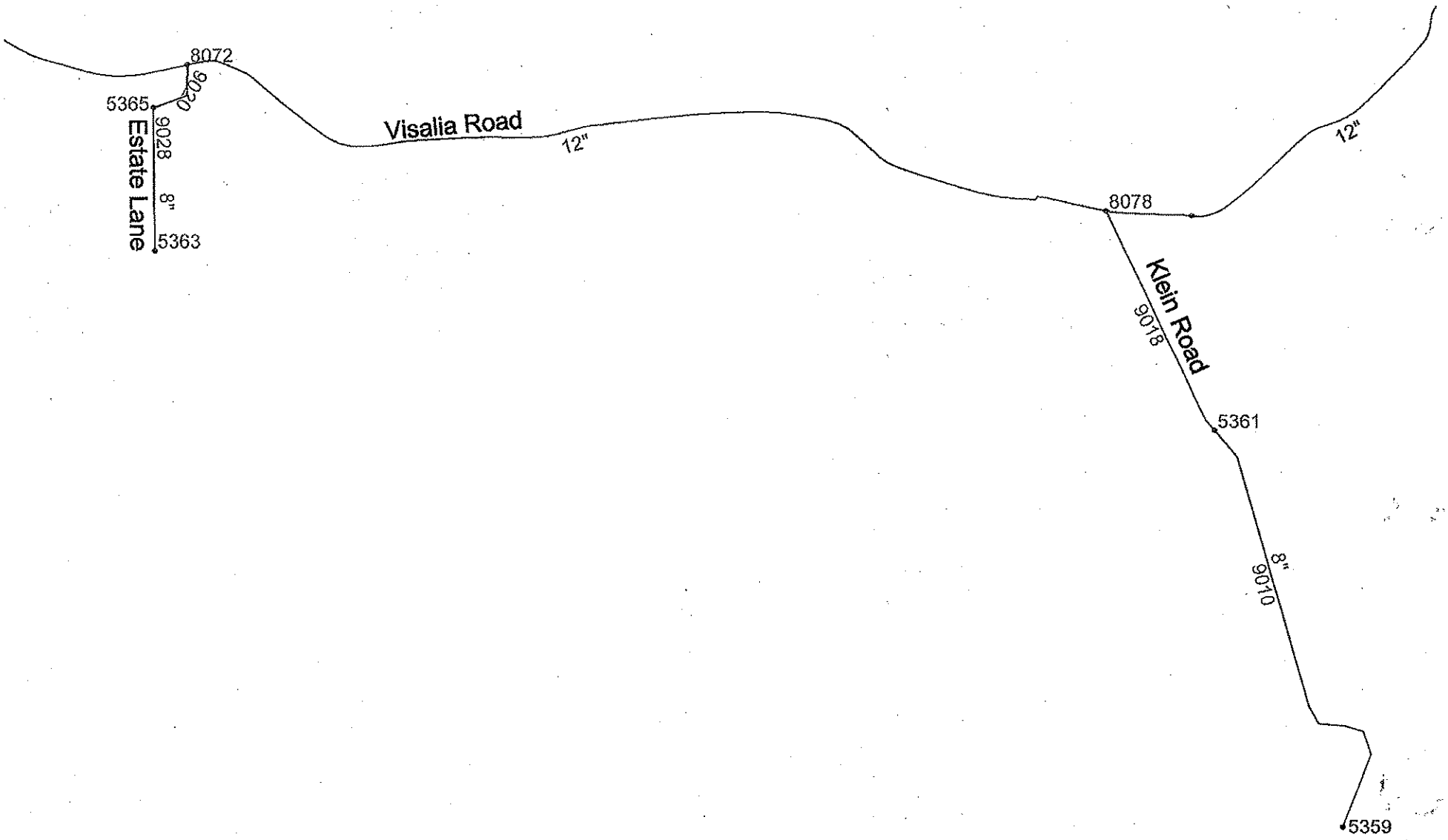
8"
5367
Petty Lane
9032
5369
8"
9034
3641
8"
Decoursey Pike
8"


8072
9020
5365
9028
Estate Lane
8"
5363
Visalia Road
12"
8078
12"
Klein Road
9018
5361
8"
9010
5359

FIRE FLOW CERTIFICATION

Sub-District G - Phase 3
Misty Lane, Pleasure Isle, Bullock Pen
Cody Road, Upton Drive, Webster Road
Unincorporated Kenton County
Kenton County, KY

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 H2ONET, the program available from MWHSoft. 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.

STATE OF KENTUCKY
Amy Kay Kramer
22412
1/3/07
LICENSED
PROFESSIONAL ENGINEER

HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

Sub-District G - Phase 3
Misty Lane, Pleasure Isle, Bullock Pen
Cody Road, Upton Drive, Webster Road
Unincorporated Kenton County
Kenton County, KY

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.

The maximum flow rate that can reliably be supplied to the main and meet 20 psi in the system under maximum hour conditions is 1150 gpm on Misty Lane, 1450 gpm on Pleasure Isle, 1100 gpm on Bullock Pen, 825 gpm on Cody Road and Upton Drive, and 1375 gpm on Webster Road. At least 30 psi can be maintained under the peak domestic demand for the 53 potential customers affected. The peak domestic demand using the D.R. Taylor formula for the 7 potential new customers on Misty Lane is 27 gpm. The peak domestic demand using the D.R. Taylor formula for the 13 potential new customers on Pleasure Isle is 36 gpm. The peak domestic demand using the D.R. Taylor formula for the 20 potential new customers on Bullock Pen is 45 gpm. The peak domestic demand using the D.R. Taylor formula for the 10 potential new customers on Cody Road and Upton Drive is 32 gpm. The peak domestic demand using the D.R. Taylor formula for the 3 potential new customers on Webster Road is 17 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 H2ONET, the program available from MWHSoft. 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 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 6" and 8" water mains.

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 Independence Tank was one-half full.

STATE OF KENTUCKY
Amy Kay Kramer
22412
4/3/07
LICENSED
PROFESSIONAL ENGINEER

Sub-District G - Phase 3
Misty Lane, Pleasure Isle, Bullock Pen
Cody Road, Upton Drive, Webster Road
Unincorporated Kenton County, Kentucky
Output from H2ONET model - copied to Excel

Northern Kentucky Water District

Maximum Hour Runs for Potential Customers

Misty Lane

Maximum Hour Run, 7 Potential Customers = 27 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5359	13.5	565	750.46	80.4
5363	13.5	535	750.47	93.4

Pleasure Isle

Maximum Hour Run, 13 Potential Customers = 36 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	18	538	741.88	88.4
5365	18	535	741.90	89.7

Bullock Pen

Maximum Hour Run, 20 Potential Customers = 45 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5371	22.5	550	764.22	92.9
5383	22.5	515	764.26	108.1

Cody Road and Upton Drive

Maximum Hour Run, 10 Potential Customers = 32 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5377	10.66	825	1,043.22	94.6
5375	10.66	856	1,043.21	81.2
5373	10.66	755	1,043.23	125.0

Webster Road

Maximum Hour Run, 3 Potential Customers = 17 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5381	8.5	796	1,046.98	108.8
5379	8.5	755	1,046.98	126.6

Flushing Velocities Under Maximum Hour

Misty Lane

Flushing velocity 2.5 fps for 6" pipe on Misty Lane (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5363	13.5	535	739.08	88.5
5359	220	565	736.66	74.4

Pipe Information for flushing velocity at 2.5 fps for 6" pipe on Misty Lane					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9020	460	6	220	2.5	120

Pleasure Isle

Flushing velocity 2.5 fps for 8" pipe on Pleasure Isle (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	392	538	714.02	76.3
5365	18	535	718.51	79.6

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Pleasure Isle					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9030	1,190	8	392	2.5	120

Bullock Pen

Flushing velocity 2.5 fps for 8" pipe on Bullock Pen (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5383	22.5	515	739.70	97.4
5371	392	550	731.18	78.5
5369	0	505	749.87	106.2

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Bullock Pen					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9034	2,428	8	414.5	2.65	120
9046	2,254	8	392	2.5	120

Cody Road and Upton Drive

Flushing velocity 2.5 fps for 8" pipe on Cody and Upton (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5375	392	856	1,005.82	65.0
5377	10.66	825	1,016.40	83.0
5373	10.66	755	1,019.17	114.5

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Cody and Upton					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9040	690	6	392	4.45	120
9038	700	8	402.7	2.57	120
9036	544	8	413.3	2.64	120

Webster Road

Flushing velocity 2.5 fps for 8" pipe on Webster Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5381	8.5	796	1,027.08	100.2
5379	392	755	1,025.01	117.1

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Webster Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9044	550	8	392	2.5	120

Maximum Available Flow Under Maximum Hour

Misty Lane

Maximum Hour Run, Maximum Available Flow on Banklick Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5363	13.5	535	665.97	56.8
5359	1,150	565	614.32	21.4

Pleasure Isle

Maximum Hour Run, Maximum Available Flow on Banklick Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	1,450	538	588.83	22.0
5365	18	535	639.37	45.3

Bullock Pen

Maximum Hour Run, Maximum Available Flow on Banklick Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5371	1,100	550	598.35	21.0
5383	22.5	515	655.79	61.0

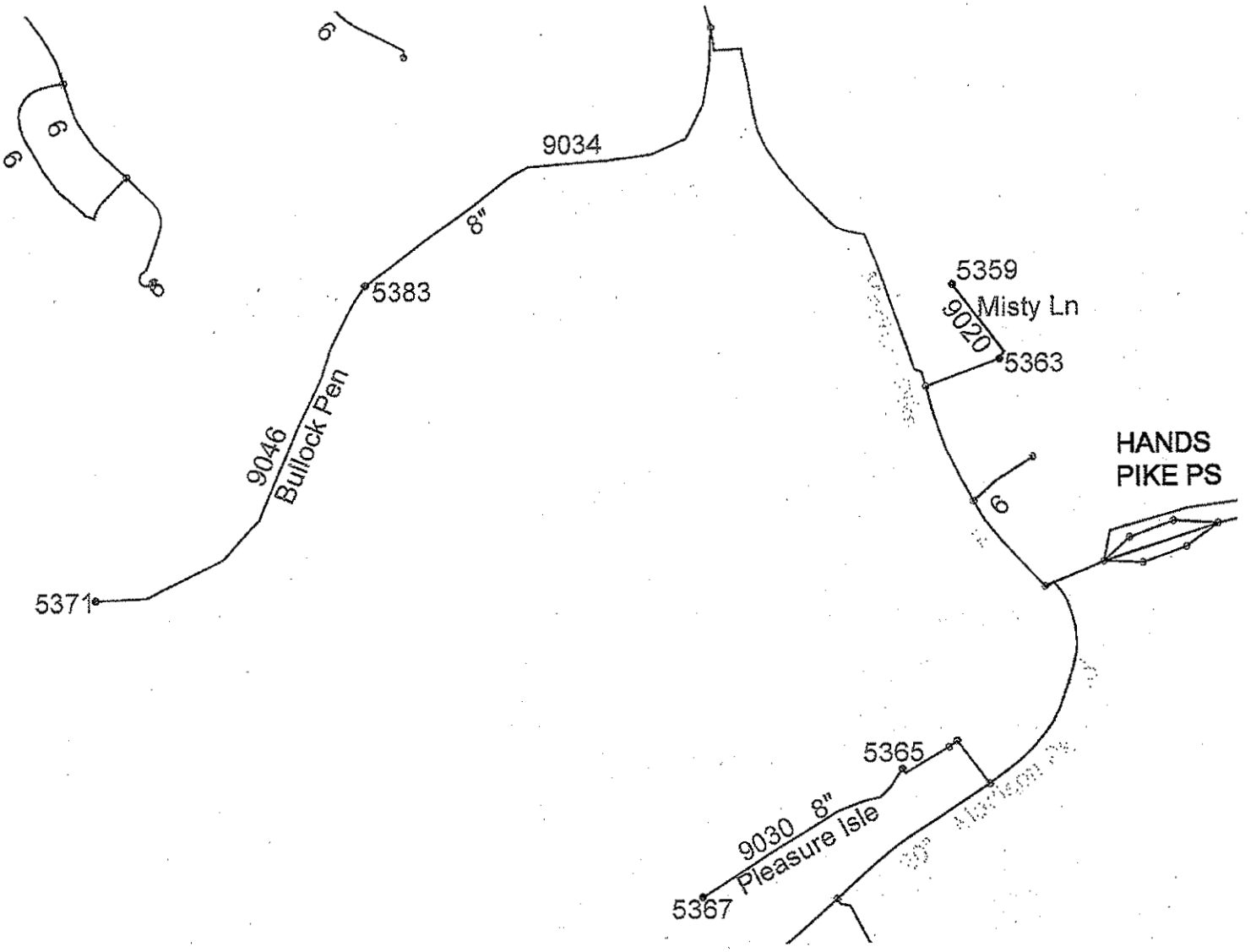
Cody Road and Upton Drive

Maximum Hour Run, Maximum Available Flow on Bramlage Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5375	825	856	905.37	21.4
5377	10.66	825	947.28	53.0
5373	10.66	755	958.01	88.0

Webster Road

Maximum Hour Run, Maximum Available Flow on Independence Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5381	8.5	796	891.11	41.2
5379	1,375	755	869.93	49.8
8346	0.7	864	913.28	21.4

Pipe ID	From Node	To Node
9044	5381	5379
9040	5377	5375
9038	5373	5377
9036	9764	5373
9030	5365	5367
9020	5363	5359
9034	5369	5383
9046	5383	5371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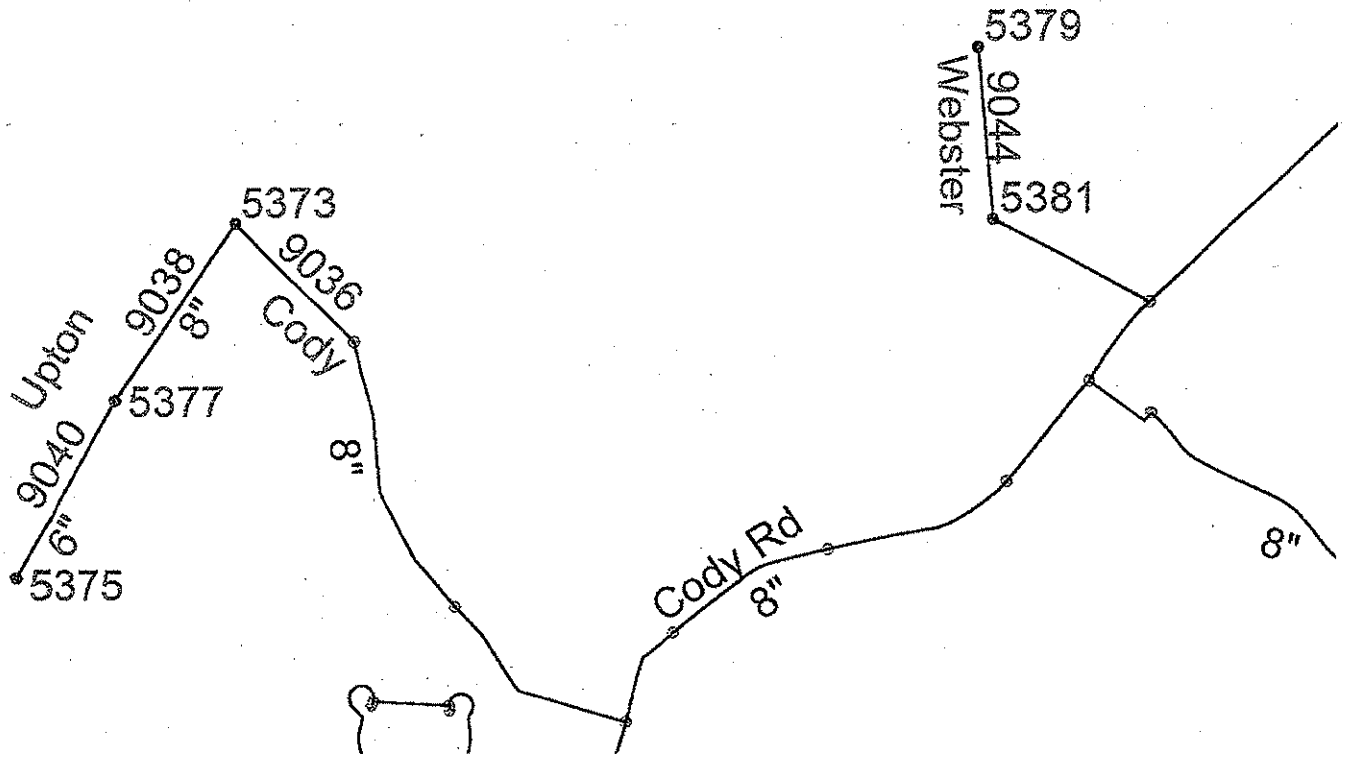
6
6
6
9034
8"
5383
9046
Bullock Pen
5371
5359
Misty Ln
9020
5363
HANDS
PIKE PS
6
5365
9030
8"
Pleasure Isle
5367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9044
Webster
5381
5373
9038
8"
9036
Cody
Upton
5377
9040
6"
5375
8"
Cody Rd
8"
8"

FIRE FLOW CERTIFICATION

Sub-District G - Phase 4
Fowler Creek, Sugar Camp Road, Lieberman Road
Wolf Road, Holly Hock Road
Unincorporated Kenton County
Kenton County, KY

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 H2ONET, the program available from MWHSoft. 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.

STATE OF KENTUCKY
Amy Kay Kramer
22412
1/11/07
LICENSED
PROFESSIONAL ENGINEER

HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

Sub-District G - Phase 4
Fowler Creek, Sugar Camp Road, Lieberman Road
Wolf Road, Holly Hock Road
Unincorporated Kenton County
Kenton County, KY

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.

The maximum flow rate that can reliably be supplied to the main and meet 20 psi in the system under maximum hour conditions is 4300 gpm on Fowler Creek, 3000 gpm on Sugar Camp Road, 625 gpm on Lieberman Road, 1100 gpm on Wolf Road, and 1100 gpm on Holly Hock Road. At least 30 psi can be maintained under the peak domestic demand for the 47 potential customers affected. The peak domestic demand using the D.R. Taylor formula for the 20 potential new customers on Fowler Creek is 45 gpm. The peak domestic demand using the D.R. Taylor formula for the 2 potential new customers on Sugar Camp Road is 14.2 gpm. The peak domestic demand using the D.R. Taylor formula for the 12 potential new customers on Lieberman Road is 34.6 gpm. The peak domestic demand using the D.R. Taylor formula for the 8 potential new customers on Wolf Road is 28.3 gpm. The peak domestic demand using the D.R. Taylor formula for the 5 potential new customers on Holly Hock Road is 22.4 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 H2ONET, the program available from MWHSoft. 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 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 6", 8", and 12" water mains.

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 Taylor Mill Standpipe was one-half full.

STATE OF KENTUCKY
Amy Kay Kramer
22412
1/11/07
LICENSED
PROFESSIONAL ENGINEER

Sub-District G - Phase 4
Fowler Creek, Sugar Camp Road
Lieberman Road, Wolf Road, Holly Hock Road
Unincorporated Kenton County, Kentucky
Output from H2ONET model - copied to Excel

Northern Kentucky Water District

Maximum Hour Runs for Potential Customers

Fowler Creek

Maximum Hour Run, 20 Potential Customers = 45 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	15	747	1,091.4	149.3
5365	0	738	1,089.4	152.3
5369	15	754	1,087.7	144.7
5371	15	774	1,086.9	135.6
5359	0	764	1,087.1	140.1

Sugar Camp Road

Maximum Hour Run, 2 Potential Customers = 14.2 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5385	14.2	840	1,090.7	108.7
5363	0	866	1,090.0	97.1
5361	0	710	1,091.7	165.5

Lieberman Road

Maximum Hour Run, 12 Potential Customers = 34.6 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5383	34.6	846	1,070.3	97.3

Wolf Road

Maximum Hour Run, 8 Potential Customers = 28.3 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5369	14.2	690	980.2	125.8
5363	14.2	555	980.2	184.3
5365	0	815	980.2	71.6

Holly Hock Road

Maximum Hour Run, 5 Potential Customers = 22.4 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	22.4	795	980.2	80.3
5365	0	815	980.2	71.6

Flushing Velocities Under Maximum Hour

Fowler Creek

Flushing velocity 2.5 fps for 12" pipe on Fowler Creek (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	15	747	1,074.8	142.1
5365	0	738	1,071.2	144.5
5369	15	754	1,068.6	136.4
5359	0	764	1,067.5	131.6
5371	15	774	1,066.5	126.8
SUBDSTRCT_BV1	881	830	1,062.2	100.7

Pipe Information for flushing velocity at 2.5 fps for 12" pipe on Fowler Creek					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
SD_BV1	1,813	12	926.0	2.6	120
9038	1,442	12	911.0	2.6	120
9034	1,059	12	911.0	2.6	120
9010	1,822	12	881.0	2.5	120
9042	433	12	896.0	2.5	120
9040	427	12	896.0	2.5	120

*valves closed on Oliver, Cox, Parker Ridge, Sycamore Creek

Sugar Camp Road

Flushing velocity 2.5 fps for 8" pipe on Sugar Camp (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5385	14.2	840	1,033.1	83.7
5363	0	866	1,035.8	73.6
5361	392	710	1,029.9	138.7

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Sugar Camp					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9068	676	8	406.2	2.6	120
9030	846	8	392	2.5	120

Lieberman Road

Flushing velocity 2.5 fps for 8" pipe on Lieberman Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5383	392	846	995.9	65.0
29354	8.5	750	1,002.7	109.5

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Lieberman Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9066	1,800	8	392	2.5	120

Wolf Road

Flushing velocity 2.5 fps for 8" pipe on Wolf Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5369	14.2	690	953.8	114.4
5363	392	555	948.4	170.5
5365	0	815	958.4	62.2

Pipe Information for flushing velocity at 2.5 fps for 8" pipe on Wolf Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9036	1,152	8	406.2	2.6	120
9020	1,435	8	392	2.5	120

Holly Hock Road

Flushing velocity 2.5 fps for 6" pipe on Holly Hock Road (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	220	795	969.8	75.8
5365	0	815	971.2	67.7

Pipe Information for flushing velocity at 2.5 fps for 6" pipe on Holly Hock Road					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
9034	250	6	220	2.5	120

Maximum Available Flow Under Maximum Hour

Fowler Creek

Maximum Hour Run, Maximum Available Flow on Fowler Creek Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	4,300	747	931.1	79.8
5365	0	738	939.4	87.3
5369	15.0	754	942.4	81.7
5359	0	764	943.7	77.9
5371	15.0	774	944.2	73.8

*pressure drops to 20 psi in other area of system

Sugar Camp Road

Maximum Hour Run, Maximum Available Flow on Sugar Camp				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5385	3,000	840	906.1	28.7
5363	0	866	914.9	21.2
5361	0	710	986.1	119.7

Lieberman Road

Maximum Hour Run, Maximum Available Flow on Lieberman Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5383	625	846	897.9	22.5
29354	8.5	750	914.0	71.1

Wolf Road

Maximum Hour Run, Maximum Available Flow on Wolf Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5369	1,100	690	841.1	65.5
5363	14.2	555	841.1	124.0
5365	0	815	871.2	24.4
29274	5.8	824	874.0	21.7

Holly Hock Road

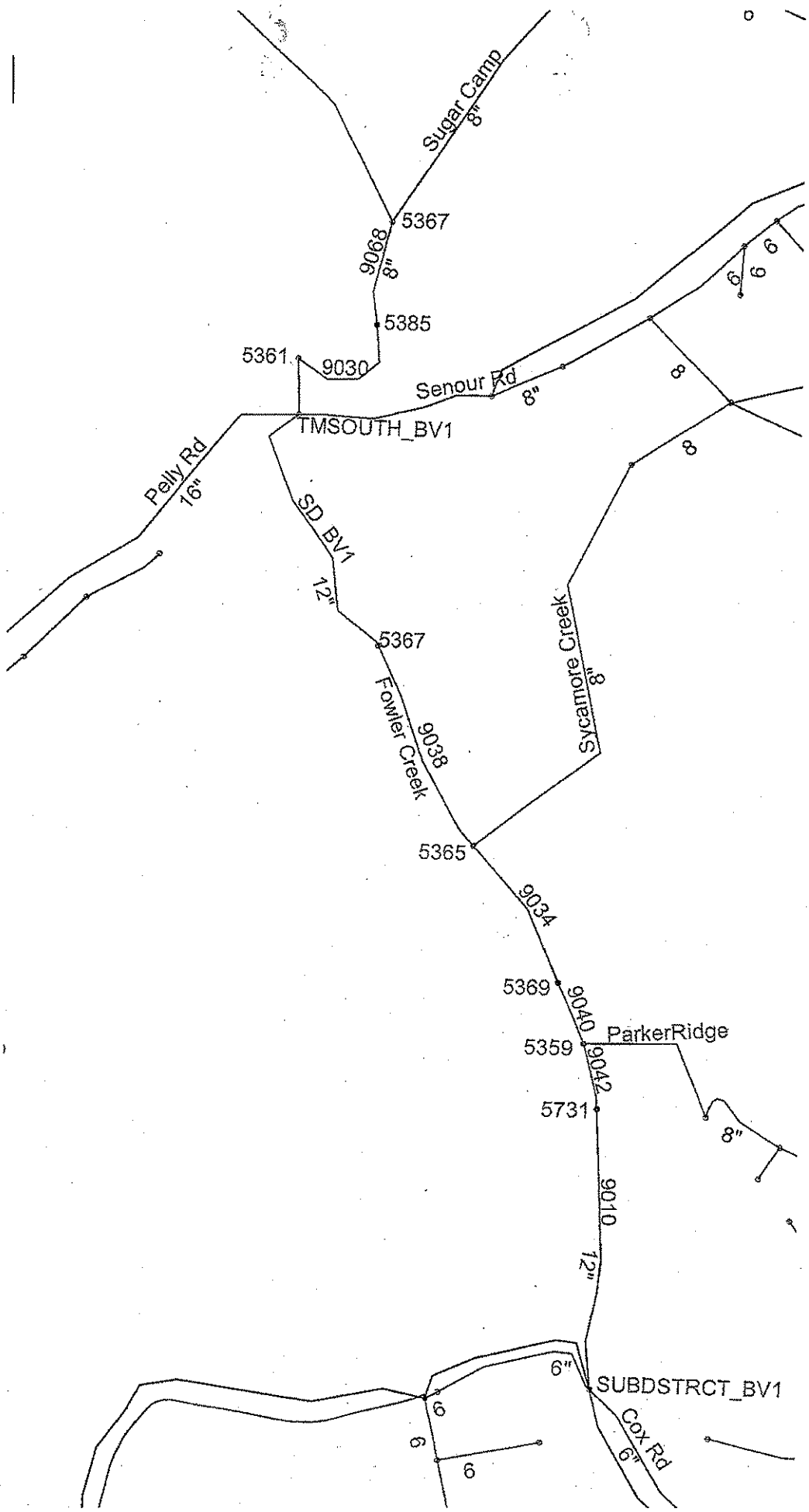
Maximum Hour Run, Maximum Available Flow on Holly Hock Road				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
5367	1,100	795	846.7	22.4
5365	0	815	872.5	24.9
29274	5.8	824	875.3	22.2

Fowler Creek, Sugar Camp, and Lieberman

Pipe ID	From Node	To Node
9038	5367	5365
SD_BV1	TMSOUTH_BV1	5367
9068	5363	5385
9030	5385	5361
9034	5365	5369
9040	5369	5359
9042	5359	5371
9010	5371	SUBDSTRCT_BV1
9066	29354	5383

Wolf Road and Holly Hock

Pipe ID	From Node	To Node
9034	5365	5367
9036	5365	5369
9020	5369	5363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9068
8"
5385
5361
9030
Senour Rd
8"
TMSOUTH_BV1
Pelly Rd
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SD_BV1
12"
5367
Fowler Creek
9038
Sycamore Creek
8"
5365
9034
5369
9040
ParkerRidge
5359
9042
5731
8"
9010
12"
6"
SUBDSTRCT_BV1
Cox Rd
6"
6
6
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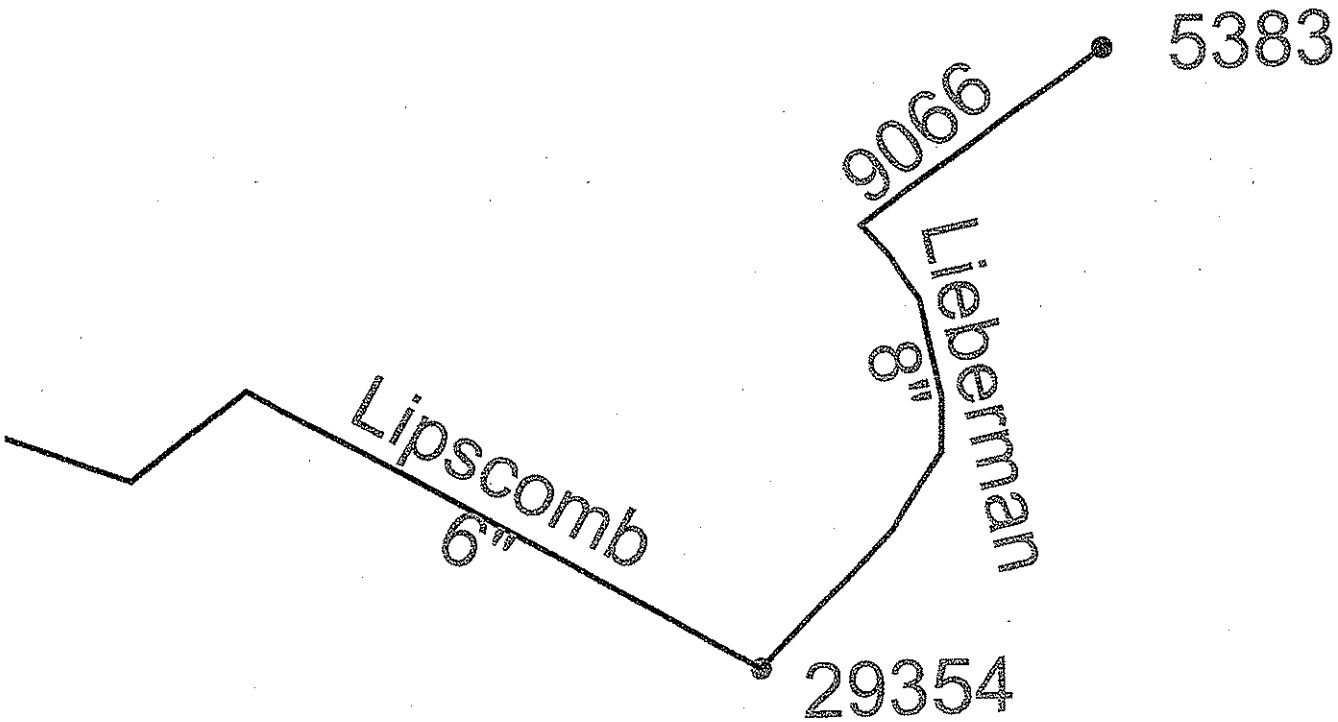
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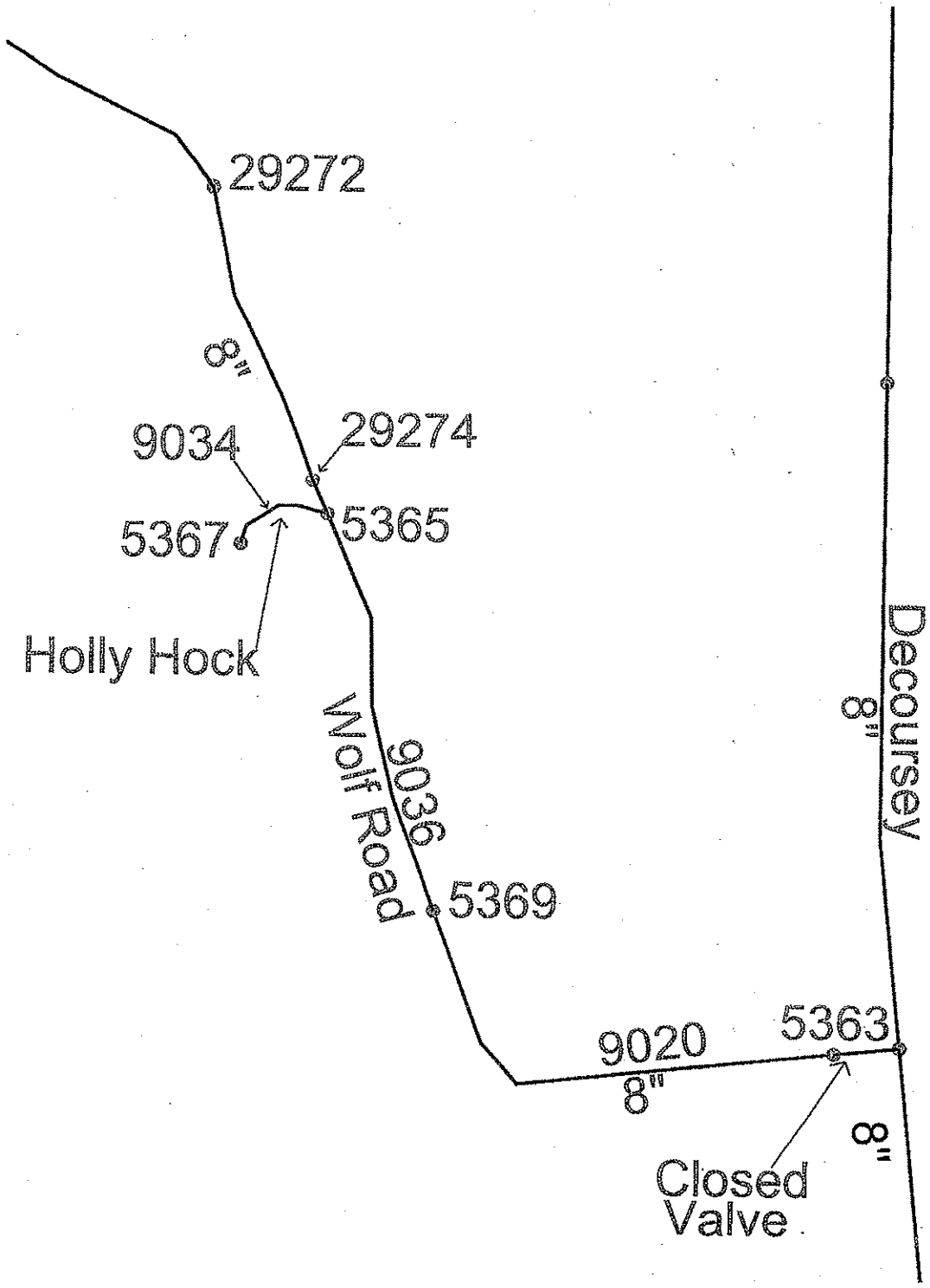
9066
Lieberman
8"
Lipscomb
6"
29354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8"
5363
Closed
Valve
8"
9020
8"
5369
Wolf Road
9036
5365
29274
29272
8"
9034
5367
Holly Hock

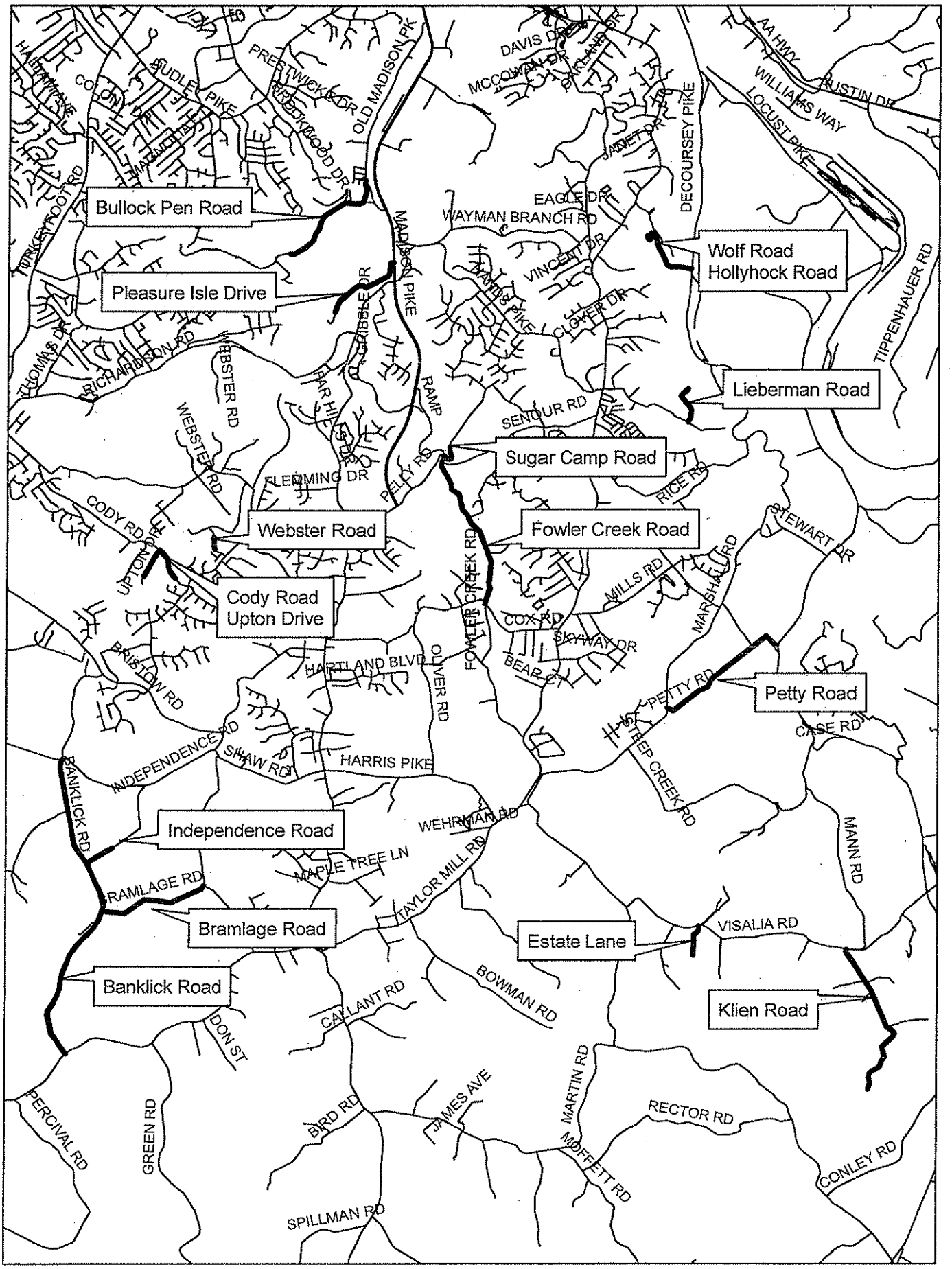
Case No. 200-_____
Exhibit _____C_____

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Project Map



Sub District G

184-193

Case No. 200-00131
Exhibit D

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Certified Statements
And
Roads and Right of Way Permits

NORTHERN KENTUCKY WATER DISTRICT

Sub District G Water Main Extension

Certification Statement

A certified statement from an authorized utility official confirming:

1. That the proposed plans and specifications for the project have been designed to meet the minimum construction and operating requirements established in 807 KAR5:066, Section 4(3) and (4), Section 5(1), Sections 6 and 7, Sections 8(1) through (3), Section 9(1), and Section 10.

2. That all other state approvals or permits have been obtained.

3. Construction is planned to begin as soon as PSC approval is granted and end within 150 days.

Richard Harrison, Vice President – Engineering and Distribution

2/23/07
Date

COMMONWEALTH OF KENTUCKY
COUNTY OF CAMPBELL

Affiant, Jack Bragg, 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 "Sub District G Water Main Extension" 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
Vice President - Finance
Northern Ky. Water District

Subscribed and sworn to before me in said County to be his act and deed by Jack Bragg, Vice President of Finance of the Northern Kentucky Water District, this 20th day of February 2007.

NOTARY PUBLIC
Campbell County, Kentucky
My commission expires 5/13/2007

KENTON COUNTY PUBLIC WORKS

ADMINISTRATIVE OFFICE (859) 392-1920 FAX NUMBER (859) 392-1923

March 6, 2007

Northern Ky Water District
Attn: John Scheben
P.O. Box 18640
Erlanger, KY 41018

RECEIVED
MAR - 9 2007
ENGINEERING DEPT.

Re: Permits

Dear Mr. John Scheben,

This letter is in regards to your request for permits for the following roads; Bramlage Road, Estate Lane, Independence Road and Klein Road, provided the following conditions are met.

1. Flowable Fill to the bottom of the asphalt layer on any road cut.
2. At least 95% compaction of fill materials.
3. Where a road cut occurs in the driving lanes or wheel tracks the County reserves the right to request that the lane be milled off and paved, in accordance with the plans of the project.
4. Erosion control methods must be used to control run-off.
5. Maintain proper drainage during and after construction.
6. Must keep Road/Street clean during construction.
7. After project completion, all restorations must be restored to original condition or better.
8. County reserves the right to inspect project during construction and a final inspection when project is finished.
9. Contractor/Northern Ky. Water must provide all signage and traffic control as needed for the project.
10. Contractor/Northern Ky. Water must notify all utilities (Call before you dig), Police, Fire, Garbage, post office for mail carrier and bus officials during the School season.

If you have any questions regarding this letter please contact our office at 859-392-1920.

Regards,

Joe Murphy

Joe Murphy, PW Director

420 Independence Station Road Independence, Kentucky 41051

TRANSPORTATION CABINET

Ernie Fletcher
Governor

Department of Highways District 6 Office
421 Buttermilk Pike
P.O. Box 17130
Covington, KY 41017
(859) 341-2700

Bill Nighbert
Secretary

Marc Williams
Commissioner of Highways

March 12, 2007

RECEIVED
MAR 13 2007
ENGINEERING DEPT.

SUBJECT: Kenton County, -59-536-8.096
KY 536 (VISALIA ROAD)
Permit Number 06-0112-07

Dear NORTHERN KENTUCKY WATER SERVICE DISTRICT:

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 record 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 July 1, 2008. When the permitted work and any necessary restoration have been completed please notify this office by using the attached form which will serve as notification for final inspection.

If there are any questions regarding this permit, please do not hesitate to contact Edmond C. Thompson at 859-341-2700 or fax number 859-341-6729.

Sincerely,

Edmond C. Thompson for

Tom Schomaker, P.E.
Chief District Engineer
Department of Highways
District 6 -Covington
P.O. Box 17130
Covington, KY 41017

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

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

Applicant Identification	Project Identification
Name: NORTHERN KENTUCKY WATER SERVICE	Permit Number: 06-0112-07
Contact Person:	County: Kenton
Address: P.O. BOX 17010	Route Number: 536
City: COVINGTON	Road Name: VISALIA ROAD
State: KY Zip: 41017	Milepoint: 8.096
Telephone: 606-331-3066	

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

Applicant

Please Return To: Department of Highways
District 6 Covington
P.O. Box 17130
Covington, Ky. 41017

Attention: Edmond C. Thompson

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

TC 99-1
Rev

Released Date _____

ENCROACHMENT PERMIT

PERMIT NO. 06-0012-0

APPLICANT IDENTIFICATION:

NAME: Northern Kentucky Water District
PERSON: Steve Broering
ADDRESS: 3049 Dixie Highway
CITY: Covington
STATE: KY ZIP CODE: 41017
PHONE: area code (859) 426-2728

PROJECT IDENTIFICATION:

ACCESS CONTROL: [X] By Permit [ ] Partial [ ] Full
COUNTY: KENTON PRIORITY ROUTE NO: KY536
MILEPOINT: A [X] Left [ ] Right [X] X-ing
PROJECT STATUS: [X] Maint. [ ] Const. [ ] Design
PROJECT # STATE: MP-059-0536
PROJECT # FEDERAL:
ROAD/ STREET NAME: VISALIA ROAD

TYPE OF ENCROACHMENT:

[ ] COMMERCIAL ENTRANCE - BUSINESS
[ ] PRIVATE ENTRANCE: [ ] Single Family [ ] Farm
[X] UTILITY: [ ] Overhead [X] Underground
[ ] GRADE: [ ] Fill [ ] Landscape on R/W
[ ] AIRSPACE: [ ] Agreement [ ] Lease
[ ] OTHER: (Specify)

ATTACHMENTS:

[ ] Standard Drawings (List on TC 99-21 under Misc.)
[X] Applicant's Plans
[ ] Highway Plan and Profile Sheets
[ ] TC 99-3 (Ponding Encroachment Specs. & Conditions)
[ ] TC 99-4 (Rest Area Usage Specs. & Conditions)
[ ] TC 99-5 (Tree Cutting/Trimming Specs. & Conditions)
[ ] TC 99-6 (Chemical Use of Specs. & Conditions)
[ ] TC 99-10 (Typical Hwy. Boring Crossing Detail)
[ ] TC 99-12 (Overhead Utility Encroachment Diagram)
[X] TC 99-13 (Surface Restoration Methods)
[X] TC 99-21 (Encroachment Permit General Notes & Specs.)
[ ] TC 99-22 (Agreement for Services to be Performed)
[ ] TC 99-23 (Mass Transit Shelter Specs. & Conditions)
[ ] Other Attachments (Specify):

APPROVED
MAR 12 2007

TYPE OF INDEMNITY: [X] Bond [ ] Cash
[X] SELF-INSURED AMOUNT ENCUMBERED $ 5000.00
[ ] OTHER

NAME AND ADDRESS OF LOCAL INSURANCE AGENCY OR SELF-INSURED REPRESENTATIVE:

INDEMNITY: The applicant, in order to secure this obligation, has deposited with the Transportation Cabinet as a guarantee of conformance with the Department's Encroachment Permit requirements, an indemnity in the amount of $ _____ as determined by the Department. It shall be the responsibility of the applicant or permitee; his heirs and assignees to keep all indemnities in full force until construction or reconstruction has been completed and duly accepted by an authorized agent of the Transportation Cabinet, Department of Highways.

BRIEF DESCRIPTION OF WORK TO BE DONE: *(If private entrance, show sketch with pipe location. Separate attached drawings required for encroachments other than private entrances.)*

AGEC - Intersection of VISALIA ROAD and KLEIN ROAD + ESTATE LN
Installation of 8" PVC WATER MAIN.

M.P. 0.896 + 2.334 → TWO DIFFERENT LOCATIONS

IMPORTANT (PLEASE READ): Applicant [ ] does [X] does not intend to apply for excess R/W

When the work is completed in accordance with the terms of this encroachment permit, your indemnity will be released. However, the permit is active until revoked by the Transportation Cabinet and the terms on the permit accompanying permit documents and drawings remain in effect as long as the encroachment exists. FUTURE MAINTENANCE OF THE ENCROACHMENT IS THE RESPONSIBILITY OF THE PERMITTEE. It is important that you understand the requirements of this encroachment permit application and accompanying documents. If you have not done so, it is suggested that you review these documents and place the permit package in a safe place for future reference.

A copy of this permit and all documents shall be given to your contractor and shall be readily available at the work site for the encroachment permit inspector to review at all times. Failure to meet this requirement may result in cancellation of this permit.

IN THE EVENT THIS APPLICATION IS APPROVED, THIS DOCUMENT SHALL CONSTITUTE A PERMIT FOR THE APPLICANT TO USE THE RIGHT-OF-WAY, BUT ONLY IN THE MANNER AUTHORIZED

The permittee agrees to the following terms and conditions:

Rev.

1. The permittee shall comply with and is bound by the requirements of the Department's Permits Manual as revised to and in effect on the date of the issuance of this permit which is made a part hereof by refe

2. Permittee agrees that if the Department determines that vehicular capacity deficiencies or over capacity conditions develop as a result of the installation and use of this facility, the permittee shall adjust, reloc reconstruct the facilities and/or provide and bear the expenses for signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department and as set forth in the Department's P Manual within a reasonable length of time after receipt of written notice regarding such adjustments, relocation, additions, modifications, and/or corrective measures, such time to be specified in the notice. In cases where traffic signals are permitted or required, as determined by the Department, the costs for signal equipment and installation(s) shall be borne by the permittee and/or the Department in accordance Department policy then in force as set forth in the Traffic Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private propert be the responsibility of the permittee, at no expense to the Department. (This applies only to Entrance Permits.)

3. The said encroachment will not infringe on the frontage rights of an abutting owner without written consent of the said owner as hereto: "I (we) consent to the granting of attached permit."
_____ Date _____ (This does not apply to utilities which serve the general public.)

4. Any permit granted hereunder shall be with the full understanding that it shall not interfere with any similar rights or permits heretofore granted to any other party except as otherwise provided by law.

5. A plan prepared by VIOX & VIOX and dated 5/5/06 is attached hereto and made a part hereof, which describes the facilities to be constructed by the permittee for which facilities this permit is granted. The permittee agrees as a condition to the issuance of the permit to construct and maintain such facilities in accordance with said plan, and the permittee not use the facilities authorized herein in any manner contrary to that prescribed by this permit and plan. Normal usage and routine maintenance only are authorized under this permit.

6. Permittee shall comply with the Manual on Uniform Traffic Control Devices as revised to and in effect on the date of the issuance of this permit which is made a part hereof by reference.

7. Permittee shall at all times from date when work is first commenced and until such time as all facilities are removed from the right-of-way premise, defend, protect, and save harmless the Department from al liability, claims, and demands arising out of work undertaken by the permittee pursuant to this permit, due to any negligent act or omission by the permittee, its servants, agents, employees, or contractors. provision shall not inure to the benefit of any third party or operate to enlarge any liability of the Department beyond that existing at common law if this right to indemnity did not exist.

8. Upon a violation of any of the provisions of this permit, the Department may revoke the permit by giving notice to the permittee in writing to remove from the right-of-way any facilities placed thereon within a reasonable time as set forth in the notice, and in the event said facilities are not so removed, and the right-of-way restored the Department may cause same to be removed, and the costs thereof shall be cha the permittee.

9. The permittee, his successors and assigns shall use the encroachment premises in compliance with all Federal requirements imposed pursuant to the provisions of the Title VI of the Civil Rights Act of 196 U.S.C. 2000-1) and regulations of the U.S. Department of Transportation as set forth in Title 49 C.F.R., Part 21, and as said regulations may be amended.

10. Permittee agrees that in the event it should become necessary, as may be reasonably determined by the Department, for the facilities covered by this permit to be removed or relocated in connection with the reconstruction, relocation, or improvement of the abutting highway, the Department may revoke this permit and require removal or relocation by the permittee at his own expense according and pursuant to th procedures provided in Paragraph 8 above except in those cases where the Department is required by law to pay any or all the same.

11. The permittee understands and agrees that this permit is personal to the permittee and shall not inure to his successors and assigns without the written approval of the Department that he is bound by the provisions of this permit as long as the encroachment exists unless a written release has been obtained from the Department. (Does not apply to utilities serving the general public.)

12. If the work authorized by this permit is on a project in the construction phase, it shall be the responsibility of the permittee to make personal contact with _____ Resident Engineer on the project to coordinate the permitted work with the State's prime contractor on the project.

13. This permit does not alleviate any requirements of any other government agency.

14. Permittee agrees to keep the priority route in which this permit was issued clear of dirt, mud, and debris during construction and for the life of this permit.

THE UNDERSIGNED APPLICANT (being duly authorized representative/owner) DOES AGREE TO ALL TERMS AND CONDITIONS SET FORTH HEREIN.

☑ January 1st ☐ July 1st , 20 08	12/18 , 20 06	Steve Brown
Completion Date	Date	Signature

RECOMMENDED FOR APPROVAL MKB

[illegible]	[illegible]	W. H. Madden	3/12, 20 0[illegible]
Title	Signature	Chief District Engineer	Date

PRIVATE ENTRANCE: TO BE COMPLETED BY PERSONNEL INSTALLING FACILITY.

Installed By: _____ _____ _____ _____ , 20

Title Signature Date

PERMIT NO. 06-0112-07

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

I. SAFETY

A. General Requirements

- [x] 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.
- [x] All work necessary in shoulder or ditchline areas of a state highway is to be scheduled to be promptly completed so that hazards adjacent to the traveled-way are kept to an absolute minimum.
- [x] No more than one (1) traveled-lane is to be blocked or obstructed during normal working hours. All signs and flagmen during lane closure shall conform to the Manual on Uniform Traffic Control Devices.
- [x] When it is necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes are to be blocked or obstructed during adverse weather conditions (i.e., rain, snow, fog, etc.) without specific permission from the Department. Working hours shall be between 8:00 am and 4:30 pm.
- [x] The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility.
- [x] No nonconstruction equipment or vehicles or office trailers will be allowed on the right-of-way during working hours.
- [x] 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 Kentucky Department of Mines and Minerals, Explosive Division.

C. Other Safety Requirements

- [ ]

II. UTILITIES

- [ ] *All work necessary within the right-of-way shall be 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 control of access immediately restored to original condition, in accordance with applicable Kentucky Department of Highways Standard Drawings.
- [ ] *All vents, valves, manholes, etc. are to be located outside 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 30" deep.
- [ ] Encasement pipe shall conform to current standards for highway crossings in accordance with the Permits Manual.
- [x] Parallel lines shall be constructed between back slope of ditch line and right-of-way line and shall have a minimum of 36" cover above top of pipe or conduit. (~~30"~~ 36 preferred)
- [x] All pavement cuts shall be restored per Kentucky Transportation Cabinet Form No. TC 99-13.
- [ ] Aerial crossing of this utility line shall have a minimum clearance of _____ feet from the high point of the roadway to the low point of the line (calculated at the coefficient for expansion of 120 degrees Farenheit).
- [ ] The 30' clear zone requirement will be met to the extent possible in accordance with Chapter 99-02.0313 of 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: i.e., 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 its 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 is to 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, are to be at the expense of the permittee and subject to the approval of the Department.

☒ All existing manholes and valve boxes are to be adjusted to be flush with finished grade.

IV. RIGHT-OF-WAY RESTORATION

☒ 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 (latest edition). A satisfactory turf, as determined by the Department, is to be established by the permittee prior to release of indemnity. Sodding or seeding 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-off-Way Lawn Maintenance Situation	-70% KY 31 Fescue -30% Perennial Rye Grass or 100% KY Fescue

☒ Two tons clean straw mulch per acre of seeding.

☒ Prior to seeding, the ground must 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 or rocked mulch or paved areas may be acceptable if they are aesthetically pleasing.

☐ All ditch flow lines and all ditch side slopes are to be sodded.

☐ Existing concrete right-of-way markers are not to be disturbed, but if damaged in any way, they are to 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 which are entirely removed are to 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 is to be laid in a straight alignment, to proper grades, and with all materials and methods of installation including bedding and joint sealing in accordance with Department Standard Specifications for Road and Bridge Construction, latest edition. Pipe is not to be covered until inspected by the Department and express permission obtained to make backfill.

☐ All gutter lines at the base of new curbs are to be on continuous grades, and pockets of water along curbs, or in entrance areas or other paved areas within the right-of-way, are not 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:

_____

VI. PAVING

[X] No bituminous pavement is to be installed within the right-of-way between November 15 and April 1, nor when the temperature is be 40°F, without the express consent of the Department. No bituminous pavement is to be installed when the underlying course is wet.

[X] Paving within the right-of-way shall be as follows:

[X] Base (Type) Flowable Fill (Thickness) VARIOUS

[X] Surface Base (Type) Bit. BASE (Thickness) match existing

[X] Finished Surface (Type) Bit. SURFACE (Thickness) 1 1/4"

[X] Existing pavement and shoulder material shall be removed to accommodate the above paving specifications.

[X] 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.

[X] All materials and methods of construction, including base and subgrade preparation, shall be in accordance with Kentucky Department of Highways Specifications for Road and Bridge Construction, latest edition.

[X] 24 hours notice to the Department is required prior to beginning paving operations:

Phone: 859-341-2700 Name MARK BRANNON

[X] To insure proper surface drainage the new pavement is to be flush with the edge of existing highway pavement and is to slope away from the existing edge of the pavement as specified on drawings.

[X] 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 pavement.

VII. SIDEWALKS SPECIFICATIONS

A. New Sidewalks

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

[ ] Sidewalks are to have tooled joints, not less than 1" in depth at *four (4) foot intervals, and ½ premolded expansion joints extending entirely through the sidewalk at intervals not to exceed fifty (50) feet.

** This dimension should be equal to the width of the sidewalk*

[ ] All materials and methods of construction, including curing, is to be in accordance with 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 is not to be blocked or obstructed, and a usable walkway is to be maintained across the construction area at all times.

[ ] All damaged sections of the sidewalks are to be entirely replaced to match existing sections.

VIII. DENSE GRADED SHOULDERS

[ ] Any existing dense graded aggregate shoulders in the entire frontage within the construction area, which have been disturbed, damaged, o on which dirt has been placed or mud is deposited or tracked, are to 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 on the plan are to consist of 5" compacted dense graded aggregate 2½ pounds per square yard calcium chloride.

[ ] All dense graded aggregate shoulders are to slope away from the new edge of pavement at the rate of ¾" 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 of the rolled curb type with a minimum base width of 8" 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 are to be constructed of Class A concrete (3,500 p.s.i. test) and are to 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, is to be in accordance with Department of Highways Standard Specifications for Road and Bridge Construction, latest edition.
- [ ] All concrete curbs are to be 6" in width, extend _____ " above finished grade and 12" below finished grade, with all visible edge rounded to ½" radii.
- [ ] All concrete curbs shall have expansion joints constructed at intervals of not more than 30 feet and ½" 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 finish grade.

X. RIGHT-OF-WAY FENCE REPLACEMENT

- [ ] The replacement fence shall be a height of at least 48" and shall be of sufficient density to contain all animals. (If applicable)
- [ ] The replacement fence shall be a minimum of one foot (1') and a maximum of two feet (2') 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 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 TO CONFORM WITH THE APPROVED PLANS.

Department of Highways

KENTUCKY TRANSPORTATION CABINET

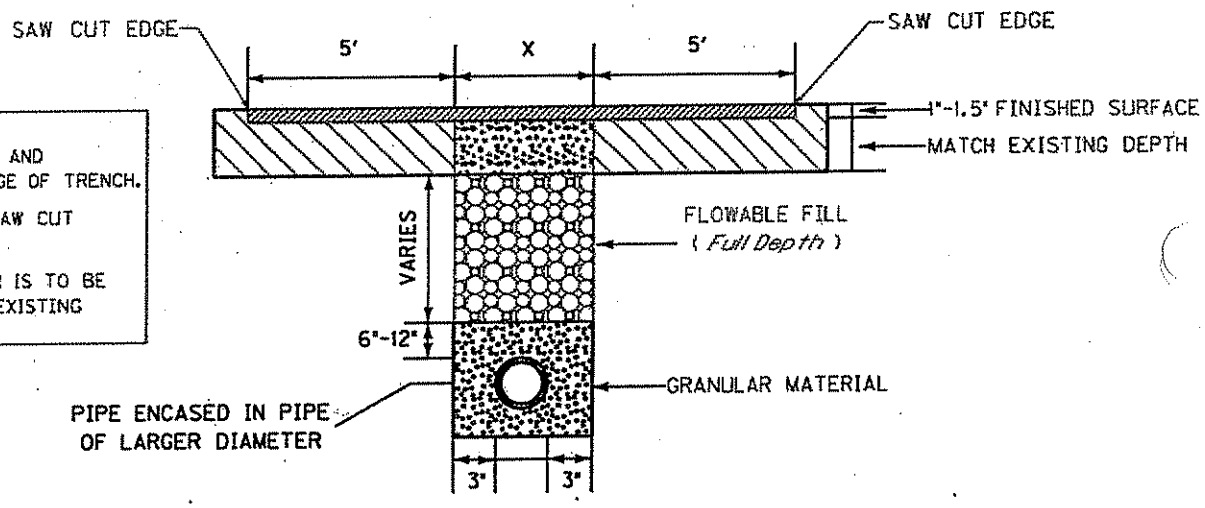
Permits Branch

Permit # 06 - 0112 - 07

SURFACE RESTORATION METHODS

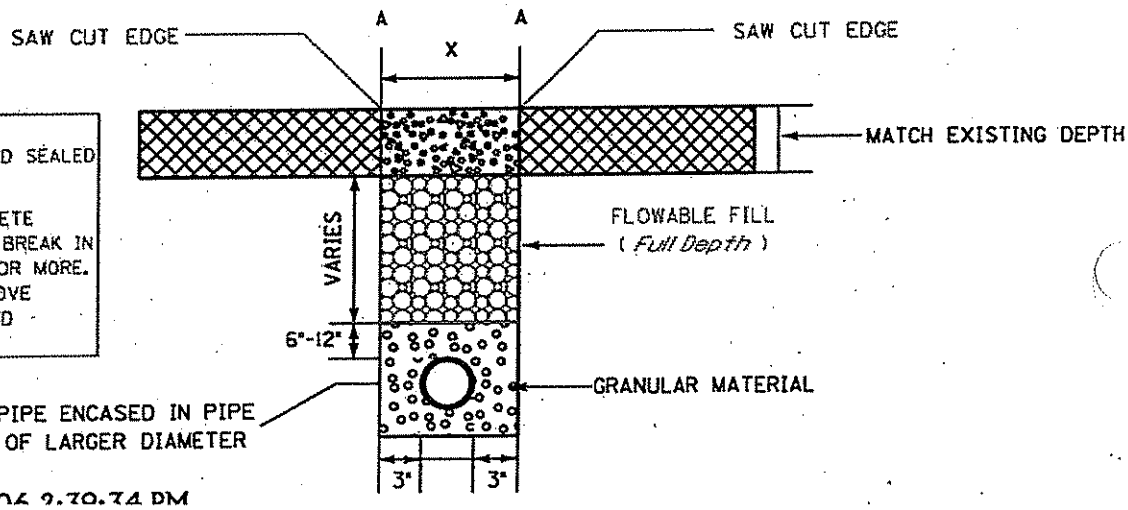
Bituminous Surfacing

NOTES:
- SURFACE SHALL BE MILLED AND REPLACED 5 FEET PAST EDGE OF TRENCH.
- SURFACE EDGE SHALL BE SAW CUT ON ALL REPAIRS.
- AN APPROVED JOINT SEALER IS TO BE APPLIED BETWEEN NEW AND EXISTING PAVEMENT.



Concrete Pavement

NOTES:
- ALL EDGES SHALL BE SAW CUT AND SEALED WITH APPOVED JOINT SEALER.
- DISTANCE FROM POINTS 'A' (CONCRETE PAVEMENT) TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE SIX (6) FEET OR MORE. IF LESS THAN SIX (6) FEET, REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.



TRANSPORTATION CABINET

Ernie Fletcher
Governor

Department of Highways District 6 Office
421 Buttermilk Pike
P.O. Box 17130
Covington, KY 41017
(859) 341-2700

Bill Nighbert
Secretary

Marc Williams
Commissioner of Highways

March 12, 2007

RECEIVED
MAR 13 2007
ENGINEERING DEPT.

SUBJECT: Kenton County, -59-2044-1.279
KY 2044 (PETTY ROAD)
Permit Number 06-0113-07

Dear NORTHERN KENTUCKY WATER SERVICE DISTRICT:

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 record 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 July 1, 2008. When the permitted work and any necessary restoration have been completed please notify this office by using the attached form which will serve as notification for final inspection.

If there are any questions regarding this permit, please do not hesitate to contact Edmond C. Thompson at 859-341-2700 or fax number 859-341-6729.

Sincerely,

Edmond C. Thompson for

Tom Schomaker, P.E.
Chief District Engineer
Department of Highways
District 6 -Covington
P.O. Box 17130
Covington, KY 41017

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

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

Applicant Identification	Project Identification
Name: NORTHERN KENTUCKY WATER SERVICE	Permit Number: 06-0113-07
Contact Person:	County: Kenton
Address: P.O. BOX 17010	Route Number: 2044
City: COVINGTON	Road Name: PETTY ROAD
State: KY Zip: 41017	Milepoint: 1.279
Telephone: 606-331-3066	

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

Applicant

Please Return To: Department of Highways
District 6 Covington
P.O. Box 17130
Covington, Ky. 41017

Attention: Edmond C. Thompson

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

TC 99-
Rev. 3/

Released Date _____

ENCROACHMENT PERMIT

PERMIT NO. 06-0113-0

APPLICANT IDENTIFICATION:

NAME: Northern Kentucky Water District
PERSON: Steve Broering
ADDRESS: 3049 Dixie Highway
CITY: Covington
STATE: KY ZIP CODE: 41017
PHONE: area code (859) 426-2728

PROJECT IDENTIFICATION:

ACCESS CONTROL: [X] By Permit [ ] Partial [ ] Full
COUNTY: KENTON PRIORITY ROUTE NO: KY2048
MILEPOINT: X [X] Left [ ] Right [X] X-ing
PROJECT STATUS: [X] Maint. [ ] Const. [ ] Design
PROJECT # STATE: MP-059-2044
PROJECT # FEDERAL:
ROAD/ STREET NAME: Petty Road

TYPE OF ENCROACHMENT:

[ ] COMMERCIAL ENTRANCE - BUSINESS
[ ] PRIVATE ENTRANCE: [ ] Single Family [ ] Farm
[X] UTILITY: [ ] Overhead [X] Underground
[ ] GRADE: [ ] Fill [ ] Landscape on R/W
[ ] AIRSPACE: [ ] Agreement [ ] Lease
[ ] OTHER: (Specify)

ATTACHMENTS:

[ ] Standard Drawings (List on TC 99-21 under Misc.)
[X] Applicant's Plans
[ ] Highway Plan and Profile Sheets
[ ] TC 99-3 (Ponding Encroachment Specs. & Conditions)
[ ] TC 99-4 (Rest Area Usage Specs. & Conditions)
[ ] TC 99-5 (Tree Cutting/Trimming Specs. & Conditions)
[ ] TC 99-6 (Chemical Use of Specs. & Conditions)
[ ] TC 99-10 (Typical Hwy. Boring Crossing Detail)
[ ] TC 99-12 (Overhead Utility Encroachment Diagram)
[X] TC 99-13 (Surface Restoration Methods)
[X] TC 99-21 (Encroachment Permit General Notes & Specs.)
[ ] TC 99-22 (Agreement for Services to be Performed)
[ ] TC 99-23 (Mass Transit Shelter Specs. & Conditions)
[ ] Other Attachments (Specify):

APPROVED
MAR 12 2007

TYPE OF INDEMNITY: [ ] Bond [ ] Cash
[X] SELF-INSURED AMOUNT ENCUMBERED $ 20,000
[ ] OTHER

NAME AND ADDRESS OF LOCAL INSURANCE AGENCY OR SELF-INSURED REPRESENTATIVE:

INDEMNITY: The applicant, in order to secure this obligation, has deposited with the Transportation Cabinet as a guarantee of conformance with the Department's Encroachment Permit requirements, an indemnity in the amount of $ _____ as determined by the Department. It shall be the responsibility of the applicant or permitee; his heirs and assignees to keep all indemnities in full force until construction or reconstruction has been completed and duly accepted by an authorized agent of the Transportation Cabinet, Department of Highways.

BRIEF DESCRIPTION OF WORK TO BE DONE: *(If private entrance, show sketch with pipe location. Separate attached drawings required for encroachments other than private entrances.)*

PAGE 10 - Petty Road - From PRUETT RD to DeCOURSEY.
Installation of 1050' of 8" PVC WATERMAIN.

K.M.P. 1.272 - 2.391

IMPORTANT (PLEASE READ): Applicant [ ] does [X] does not intend to apply for excess R/W

When the work is completed in accordance with the terms of this encroachment permit, your idemnity will be released. However, the permit is effective until revoked by the Transportation Cabinet and the terms on the permit accompanying permit documents and drawings remain in effect s lo[illegible] the encroachment exists. FUTURE MAINTENANCE OF THE ENCROACHMENT IS THE RESPONSIBILITY OF THE PERMITTEE. It is [illegible] that you understand the requirements of this encroachment permit application and accompanying documents. If you have not done so, is [illegible]gested that you review these documents and place the permit package in a safe place for future reference.

copy of this permit and all documents shall be given to your contractor and shall be readily available at the work site for the encroachment [illegible]mit inspector to review at all times. Failure to meet this requirement may result in cancellation of this permit.

THE EVENT THIS APPLICATION IS APPROVED, THIS DOCUMENT SHALL CONSTITUTE A PERMIT FOR THE APPLICANT TO USE THE [illegible]GHT-OF-WAY, BUT ONLY IN THE [illegible]

Th /ttee agrees to the following terms and conditions:

TC 99-1
Rev. 3/9

1. The permittee shall comply with and is bound by the requirements of the Department's Permits Manual as revised to and in effect on the date of the issuance of this permit which is made a part hereof by referei

2. Permittee agrees that if the Department determines that vehicular capacity deficiencies or over capacity conditions develop as a result of the installation and use of this facility, the permittee shall adjust, relocate reconstruct the facilities and/or provide and bear the expenses for signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department and as set forth in the Department's Perr Manual within a reasonable length of time after receipt of written notice regarding such adjustments, relocation, additions, modifications, and/or corrective measures, such time to be specified in the notice. In cases where traffic signals are permitted or required, as determined by the Department, the costs for signal equipment and installation(s) shall be borne by the permittee and/or the Department in accordance w Department policy then in force as set forth in the Traffic Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property) be the responsibility of the permittee, at no expense to the Department. (This applies only to Entrance Permits.)

3. The said encroachment will not infringe on the frontage rights of an abutting owner without written consent of the said owner as hereto: "I (we) consent to the granting of attached permit."
_____ Date _____ (This does not apply to utilities which serve the general public.)

4. Any permit granted hereunder shall be with the full understanding that it shall not interfere with any similar rights or permits heretofore granted to any other party except as otherwise provided by law.

5. A plan prepared by V Zox & V Zox and dated 4/15/06 is attached hereto and made a part hereof, which describes the facilities to be constructed by the permittee for which facilities this permit is granted. The permittee agrees as a condition to the issuance of the permit to construct and maintain such facilities in accordance with said plan, and the permittee sh not use the facilities authorized herein in any manner contrary to that prescribed by this permit and plan. Normal usage and routine maintenance only are authorized under this permit.

6. Permittee shall comply with the Manual on Uniform Traffic Control Devices as revised to and in effect on the date of the issuance of this permit which is made a part hereof by reference.

7. Permittee shall at all times from date when work is first commenced and until such time as all facilities are removed from the right-of-way premise, defend, protect, and save harmless the Department from all liability, claims, and demands arising out of work undertaken by the permittee pursuant to this permit, due to any negligent act or omission by the permittee, its servants, agents, employees, or contractors. Th provision shall not inure to the benefit of any third party or operate to enlarge any liability of the Department beyond that existing at common law if this right to indemnity did not exist.

8. Upon a violation of any of the provisions of this permit, the Department may revoke the permit by giving notice to the permittee in writing to remove from the right-of-way any facilities placed thereon within a reasonable time as set forth in the notice, and in the event said facilities are not so removed, and the right-of-way restored the Department may cause same to be removed, and the costs thereof shall be charg the permittee.

9. The permittee, his successors and assigns shall use the encroachment premises in compliance with all Federal requirements imposed pursuant to the provisions of the Title VI of the Civil Rights Act of 1964 (U.S.C. 2000-1) and regulations of the U.S. Department of Transportation as set forth in Title 49 C.F.R., Part 21, and as said regulations may be amended.

10. Permittee agrees that in the event it should become necessary, as may be reasonably determined by the Department, for the facilities covered by this permit to be removed or relocated in connection with the reconstruction, relocation, or improvement of the abutting highway, the Department may revoke this permit and require removal or relocation by the permittee at his own expense according and pursuant to the procedures provided in Paragraph 8 above except in those cases where the Department is required by law to pay any or all the same.

11. The permittee understands and agrees that this permit is personal to the permittee and shall not inure to his successors and assigns without the written approval of the Department that he is bound by the provisions of this permit as long as the encroachment exists unless a written release has been obtained from the Department. (Does not apply to utilities serving the general public.)

12. If the work authorized by this permit is on a project in the construction phase, it shall be the responsibility of the permittee to make personal contact with _____ Resident Engineer on the project to coordinate the permitted work with the State's prime contractor on the project.

13. This permit does not alleviate any requirements of any other government agency.

14. Permittee agrees to keep the priority route in which this permit was issued clear of dirt, mud, and debris during construction and for the life of this permit.

THE UNDERSIGNED APPLICANT (being duly authorized representative/owner) DOES AGREE TO ALL TERMS AND CONDITIONS SET FORTH HEREIN.

☑ January 1st ☐ July 1st , 20 08 — Completion Date
12/18 , 20 06 — Date
Steve Brown — Signature

RECOMMENDED FOR APPROVAL mKB

Title — Signature — Chief District Engineer — 3/12 , 20 07 — Date

PRIVATE ENTRANCE: TO BE COMPLETED BY PERSONNEL INSTALLING FACILITY.

Installed By: _____ Title _____ Signature _____ , 20 _____ Date

PERMIT NO. 06- 0113-07

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

TC 99-
Rev. 12
Page 1

ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

I. SAFETY

A. General Requirements

[X] 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.

[X] All work necessary in shoulder or ditchline areas of a state highway is to be scheduled to be promptly completed so that hazards adjacen to the traveled-way are kept to an absolute minimum.

[X] No more than one (1) traveled-lane is to be blocked or obstructed during normal working hours. All signs and flagmen during lane closur shall conform to the Manual on Uniform Traffic Control Devices.

[X] When it is necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes are to be blocked or obstructed during adverse weather conditions (i.e., rain, snow, fog, etc.) without specific permission from th Department. Working hours shall be between 8:00 Am and 4:30pm.

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

[X] No nonconstruction equipment or vehicles or office trailers will be allowed on the right-of-way during working hours.

[X] 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 Kentucky Department of Mines and Minerals, Explosive Division.

C. Other Safety Requirements

& Steve Short Resident Eng. @ 654-6105
Need to contact Mark Brannon at KYOT (859-341-2700) Before Starting this project. There is a Repaving project on this road for 2007.

II. UTILITIES

[ ] *All work necessary within the right-of-way shall be 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 control of access immediately restored to original condition, in accordance with applicable Kentucky Department of Highways Standard Drawings.

[ ] *All vents, valves, manholes, etc. are to be located outside 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 30" deep.

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

[X] Parallel lines shall be constructed between back slope of ditch line and right-of-way line and shall have a minimum of 36" cover above top of pipe or conduit. (~~30"~~ 36 preferred)

[X] All pavement cuts shall be restored per Kentucky Transportation Cabinet Form No. TC 99-13.

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

[ ] The 30' clear zone requirement will be met to the extent possible in accordance with Chapter 99-02.0313 of the Permits Manual.

[X] Special Requirements:

* Utility Installed under pavement will require Flowable Fill Backfill & mill & overlay
* Any pipe Laid within 3 Feet of pavement require Flowable Fill as Back Fill

GENERAL

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: i.e., 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.*"

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 its 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.

Utilities in the Work Areas

[✓] The permittee is to 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, are to be at the expense of the permittee and subject to the approval of the Department.

[✓] All existing manholes and valve boxes are to be adjusted to be flush with finished grade.

RIGHT-OF-WAY RESTORATION

[✓] 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 (latest edition). A satisfactory turf, as determined by the Department, is to be established by the permittee prior to release of indemnity. Sodding or seeding 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-off-Way Lawn Maintenance Situation	-70% KY 31 Fescue -30% Perennial Rye Grass or 100% KY Fescue

[ ] Two tons clean straw mulch per acre of seeding.

[✓] Prior to seeding, the ground must 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 or rocked mulch or paved areas may be acceptable if they are aesthetically pleasing.

[ ] All ditch flow lines and all ditch side slopes are to be sodded.

[ ] Existing concrete right-of-way markers are not to be disturbed, but if damaged in any way, they are to 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 which are entirely removed are to 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:

_____

_____

_____

_____

DRAINAGE

[✓] All pipe is to 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 is not to be covered until inspected by the Department and express permission obtained to make backfill.

[ ] All gutter lines at the base of new curbs are to be on continuous grades, and pockets of water along curbs, or in entrance areas or other paved areas within the right-of-way, are not acceptable.

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

_____

_____

Permit No. 06 – 0113 – 07

VI. PAVING

[X] No bituminous pavement is to be installed within the right-of-way between November 15 and April 1, nor when the temperature is below 40°F, without the express consent of the Department. No bituminous pavement is to be installed when the underlying course is wet.

[X] Paving within the right-of-way shall be as follows: * Flowable Fill Required + mill + overlay

[X] Base (Type) Flowable Fill (Thickness) VARIOUS

[X] Surface Base (Type) Bit. BASE CL II (Thickness) MATCH EXISTING

[X] Finished Surface (Type) Bit SURFACE (Thickness) 1" - mill + overlay

[X] Existing pavement and shoulder material shall be removed to accommodate the above paving specifications.

[X] 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.

[X] All materials and methods of construction, including base and subgrade preparation, shall be in accordance with Kentucky Department c Highways Specifications for Road and Bridge Construction, latest edition.

[X] 24 hours notice to the Department is required prior to beginning paving operations:

Phone: 859-341-2700 Name MARK BRANNON

[X] To insure proper surface drainage the new pavement is to be flush with the edge of existing highway pavement and is to slope away from the existing edge of the pavement as specified on drawings.

[X] 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 pavement.

VII. SIDEWALKS SPECIFICATIONS

New Sidewalks

[ ] Sidewalks are to be constructed of Class A concrete (3,500 p.s.i. test), are to be * _____ feet in width, are to be 6" in thickness acros the bituminous entrance and 4" in thickness across the remaining sections.

[ ] Sidewalks are to have tooled joints, not less than 1" in depth at *four (4) foot intervals, and ½ premolded expansion joints extending entirel through the sidewalk at intervals not to exceed fifty (50) feet.

** This dimension should be equal to the width of the sidewalk*

[ ] All materials and methods of construction, including curing, is to be in accordance with 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 is not to be blocked or obstructed, and a usable walkway is to be maintained across the construction area at all times.

[ ] All damaged sections of the sidewalks are to be entirely replaced to match existing sections.

VIII. DENSE GRADED SHOULDERS

[ ] Any existing dense graded aggregate shoulders in the entire frontage within the construction area, which have been disturbed, damaged, c on which dirt has been placed or mud is deposited or tracked, are to 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 on the plan are to consist of 5" compacted dense graded aggregate 2½ pounds per square yard calcium chloride.

[ ] All dense graded aggregate shoulders are to slope away from the new edge of pavement at the rate of ¾" 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 of the rolled curb type with a minimum base width of 8" 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 are to be constructed of Class A concrete (3,500 p.s.i. test) and are to 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, is to be in accordance with Department of Highways Standard Specifications for Road and Bridge Construction, latest edition.
- [ ] All concrete curbs are to be 6" in width, extend _____ " above finished grade and 12" below finished grade, with all visible edge rounded to ½" radii.
- [ ] All concrete curbs shall have expansion joints constructed at intervals of not more than 30 feet and ½" 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 finish grade.

X. RIGHT-OF-WAY FENCE REPLACEMENT

- [ ] The replacement fence shall be a height of at least 48" and shall be of sufficient density to contain all animals. (If applicable)
- [ ] The replacement fence shall be a minimum of one foot (1') and a maximum of two feet (2') 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 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 TO CONFORM WITH THE APPROVED PLANS.

TRANSPORTATION CABINET

Ernie Fletcher
Governor

Department of Highways District 6 Office
421 Buttermilk Pike
P.O. Box 17130
Covington, KY 41017
(859) 341-2700

Bill Nighbert
Secretary

Marc Williams
Commissioner of Highways

February 5, 2007

RECEIVED
FEB 12 2007
ENGINEERING DEPT.

SUBJECT: Kenton County, -59-2043-5.804
KY 2043 (BANKLICK ROAD)
Permit Number 06-0063-07

Dear NORTHERN KENTUCKY WATER SERVICE DISTRICT:

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 record 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 January 1, 2008. When the permitted work and any necessary restoration have been completed please notify this office by using the attached form which will serve as notification for final inspection.

If there are any questions regarding this permit, please do not hesitate to contact Edmond C. Thompson at 859-341-2700 or fax number 859-341-6729.

Sincerely,

Edmond C. Thompson 2/07

Tom Schomaker, P.E.
Chief District Engineer
Department of Highways
District 6 -Covington
P.O. Box 17130
Covington, KY 41017

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

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

Applicant Identification	Project Identification
Name: NORTHERN KENTUCKY WATER SERVICE	Permit Number: 06-0063-07
Contact Person:	County: Kenton
Address: P.O. BOX 17010	Route Number: 2043
City: COVINGTON	Road Name: BANKLICK ROAD
State: KY Zip: 41017	Milepoint: 5.804
Telephone: 606-331-3066	

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

Applicant

Please Return To: Department of Highways
District 6 Covington
P.O. Box 17130
Covington, Ky. 41017

Attention: Edmond C. Thompson

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

TC 99-1
Rev. 3/9

Released Date _____

ENCROACHMENT PERMIT

PERMIT NO. 06-0063-C

APPLICANT IDENTIFICATION:

NAME: Northern Kentucky Water District
PERSON: Steve Broering
ADDRESS: 3049 Dixie Highway
CITY: Covington
STATE: KY ZIP CODE: 41017
PHONE: area code (859) 426-2728

PROJECT IDENTIFICATION:

ACCESS CONTROL: [X] By Permit [ ] Partial [ ] Full
COUNTY: KENTON PRIORITY ROUTE NO: KY 2043
MILEPOINT: X [ ] Left [X] Right [ ] X-ing
PROJECT STATUS: [X] Maint. [ ] Const. [ ] Design
PROJECT # STATE: MP-059-2043
PROJECT # FEDERAL:
ROAD/ STREET NAME: BANKLICK ROAD

TYPE OF ENCROACHMENT:

[ ] COMMERCIAL ENTRANCE - BUSINESS
[ ] PRIVATE ENTRANCE: [ ] Single Family [ ] Farm
[X] UTILITY: [ ] Overhead [X] Underground
[ ] GRADE: [ ] Fill [ ] Landscape on R/W
[ ] AIRSPACE: [ ] Agreement [ ] Lease
[ ] OTHER: (Specify)

ATTACHMENTS:

[ ] Standard Drawings (List on TC 99-21 under Misc.)
[X] Applicant's Plans
[ ] Highway Plan and Profile Sheets
[ ] TC 99-3 (Ponding Encroachment Specs. & Conditions)
[ ] TC 99-4 (Rest Area Usage Specs. & Conditions)
[ ] TC 99-5 (Tree Cutting/Trimming Specs. & Conditions)
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[ ] TC 99-10 (Typical Hwy. Boring Crossing Detail)
[ ] TC 99-12 (Overhead Utility Encroachment Diagram)
[X] TC 99-13 (Surface Restoration Methods)
[X] TC 99-21 (Encroachment Permit General Notes & Specs.)
[ ] TC 99-22 (Agreement for Services to be Performed)
[ ] TC 99-23 (Mass Transit Shelter Specs. & Conditions)
[ ] Other Attachments (Specify):

APPROVED
FEB 05 2007

TYPE OF INDEMNITY: [ ] Bond [ ] Cash
[X] SELF-INSURED AMOUNT ENCUMBERED $ 15,000.00
[ ] OTHER

NAME AND ADDRESS OF LOCAL INSURANCE AGENCY OR SELF-INSURED REPRESENTATIVE:

INDEMNITY: The applicant, in order to secure this obligation, has deposited with the Transportation Cabinet as a guarantee of conformance with the Department's Encroachment Permit requirements, an indemnity in the amount of $ _____ as determined by the Department. It shall be the responsibility of the applicant or permitee; his heirs and assignees to keep all indemnities in full force until construction or reconstruction has been completed and duly accepted by an authorized agent of the Transportation Cabinet, Department of Highways.

BRIEF DESCRIPTION OF WORK TO BE DONE: *(If private entrance, show sketch with pipe location. Separate attached drawings required for encroachments other than private entrances.)*

KY 2043 BANKLICK ROAD FROM MAHER ROAD TO WALTON NICHOLSON RD.
Installation of 14,500 ft of 24" Ductile IRON WATER MAIN.

X M.P. 5.304 - 8.558

IMPORTANT (PLEASE READ): Applicant [ ] does [X] does not intend to apply for excess R/W

When the work is completed in accordance with the terms of this encroachment permit, your idemnity will be released. However, the permit is effective until revoked by the Transportation Cabinet and the terms on the permit accompanying permit documents and drawings remain in effect s lo[illegible] the encroachment exists. FUTURE MAINTENANCE OF THE ENCROACHMENT IS THE RESPONSIBILITY OF THE PERMITTEE. It is [illegible] that you understand the requirements of this encroachment permit application and accompanying documents. If you have not done so, is suggested that you review these documents and place the permit package in a safe place for future reference.

copy of this permit and all documents shall be given to your contractor and shall be readily available at the work site for the encroachment ermit inspector to review at all times. Failure to meet this requirement may result in cancellation of this permit.

THE EVENT THIS APPLICATION IS APPROVED, THIS DOCUMENT SHALL CONSTITUTE A PERMIT FOR THE APPLICANT TO USE THE GHT-OF-WAY, BUT ONLY [illegible]

TC 99-1
Rev. 3/9

The ___ tee agrees to the following terms and conditions:

1. The permittee shall comply with and is bound by the requirements of the Department's Permits Manual as revised to and in effect on the date of the issuance of this permit which is made a part hereof by referer

2. Permittee agrees that if the Department determines that vehicular capacity deficiencies or over capacity conditions develop as a result of the installation and use of this facility, the permittee shall adjust, relocate reconstruct the facilities and/or provide and bear the expenses for signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department and as set forth in the Department's Perr Manual within a reasonable length of time after receipt of written notice regarding such adjustments, relocation, additions, modifications, and/or corrective measures, such time to be specified in the notice. In cases where traffic signals are permitted or required, as determined by the Department, the costs for signal equipment and installation(s) shall be borne by the permittee and/or the Department in accordance wi Department policy then in force as set forth in the Traffic Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property) s be the responsibility of the permittee, at no expense to the Department. (This applies only to Entrance Permits.)

3. The said encroachment will not infringe on the frontage rights of an abutting owner without written consent of the said owner as hereto: "I (we) consent to the granting of attached permit."
_____ Date _____ (This does not apply to utilities which serve the general public.)

4. Any permit granted hereunder shall be with the full understanding that it shall not interfere with any similar rights or permits heretofore granted to any other party except as otherwise provided by law.

5. A plan prepared by UTOX & UTOX and dated 7/6/06 is attached hereto and made a part hereof, which describes the facilities to be constructed by the permittee for which facilities this permit is granted. The permittee agrees as a condition to the issuance of the permit to construct and maintain such facilities in accordance with said plan, and the permittee sh not use the facilities authorized herein in any manner contrary to that prescribed by this permit and plan. Normal usage and routine maintenance only are authorized under this permit.

6. Permittee shall comply with the Manual on Uniform Traffic Control Devices as revised to and in effect on the date of the issuance of this permit which is made a part hereof by reference.

7. Permittee shall at all times from date when work is first commenced and until such time as all facilities are removed from the right-of-way premise, defend, protect, and save harmless the Department from all liability, claims, and demands arising out of work undertaken by the permittee pursuant to this permit, due to any negligent act or omission by the permittee, its servants, agents, employees, or contractors. Thi provision shall not inure to the benefit of any third party or operate to enlarge any liability of the Department beyond that existing at common law if this right to indemnity did not exist.

8. Upon a violation of any of the provisions of this permit, the Department may revoke the permit by giving notice to the permittee in writing to remove from the right-of-way any facilities placed thereon within a reasonable time as set forth in the notice, and in the event said facilities are not so removed, and the right-of-way restored the Department may cause same to be removed, and the costs thereof shall be charg the permittee.

9. The permittee, his successors and assigns shall use the encroachment premises in compliance with all Federal requirements imposed pursuant to the provisions of the Title VI of the Civil Rights Act of 1964 (U.S.C. 2000-1) and regulations of the U.S. Department of Transportation as set forth in Title 49 C.F.R., Part 21, and as said regulations may be amended.

10. Permittee agrees that in the event it should become necessary, as may be reasonably determined by the Department, for the facilities covered by this permit to be removed or relocated in connection with the reconstruction, relocation, or improvement of the abutting highway, the Department may revoke this permit and require removal or relocation by the permittee at his own expense according and pursuant to the procedures provided in Paragraph 8 above except in those cases where the Department is required by law to pay any or all the same.

11. The permittee understands and agrees that this permit is personal to the permittee and shall not inure to his successors and assigns without the written approval of the Department that he is bound by the provisions of this permit as long as the encroachment exists unless a written release has been obtained from the Department. (Does not apply to utilities serving the general public.)

12. If the work authorized by this permit is on a project in the construction phase, it shall be the responsibility of the permittee to make personal contact with _____ Resident Engineer on the project to coordinate the permitted work with the State's prime contractor on the project.

13. This permit does not alleviate any requirements of any other government agency.

14. Permittee agrees to keep the priority route in which this permit was issued clear of dirt, mud, and debris during construction and for the life of this permit.

THE UNDERSIGNED APPLICANT (being duly authorized representative/owner) DOES AGREE TO ALL TERMS AND CONDITIONS SET FORTH HEREIN.

☑ January 1st ☐ July 1st , 2008 — 12/18 , 20 06 — Steve Bra[illegible]
Completion Date — Date — Signature

RECOMMENDED FOR APPROVAL MKB

[illegible] — [illegible] — _____ — _____ , 20 __
Title — Signature — Chief District Engineer — Date

PRIVATE ENTRANCE: TO BE COMPLETED BY PERSONNEL INSTALLING FACILITY.

Installed By: _____ — _____ — _____ , 20 __
Title — Signature — Date

PERMIT NO. 06-0063-07

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

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ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

I. SAFETY

A. General Requirements

- [x] 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.
- [x] All work necessary in shoulder or ditchline areas of a state highway is to be scheduled to be promptly completed so that hazards adjacent to the traveled-way are kept to an absolute minimum.
- [x] No more than one (1) traveled-lane is to be blocked or obstructed during normal working hours. All signs and flagmen during lane closure shall conform to the Manual on Uniform Traffic Control Devices.
- [x] When it is necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes are to be blocked or obstructed during adverse weather conditions (i.e., rain, snow, fog, etc.) without specific permission from the Department. Working hours shall be between 8:00 am and 4:30 pm.
- [x] The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility.
- [x] No nonconstruction equipment or vehicles or office trailers will be allowed on the right-of-way during working hours.
- [x] 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 Kentucky Department of Mines and Minerals, Explosive Division.

C. Other Safety Requirements

II. UTILITIES

- [ ] *All work necessary within the right-of-way shall be 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 control of access immediately restored to original condition, in accordance with applicable Kentucky Department of Highways Standard Drawings.
- [ ] *All vents, valves, manholes, etc. are to be located outside 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 30" deep.
- [ ] Encasement pipe shall conform to current standards for highway crossings in accordance with the Permits Manual.
- [x] Parallel lines shall be constructed between back slope of ditch line and right-of-way line and shall have a minimum of 36" cover above top of pipe or conduit. (~~30"~~ 36 preferred)
- [x] All pavement cuts shall be restored per Kentucky Transportation Cabinet Form No. TC 99-13.
- [ ] Aerial crossing of this utility line shall have a minimum clearance of _____ feet from the high point of the roadway to the low point of the line (calculated at the coefficient for expansion of 120 degrees Farenheit).
- [ ] ne 30' clear zone requirement will be met to the extent possible in accordance with Chapter 99-02.0313 of the Permits Manual.
- [x] Special Requirements:

* Any Pipe laid within 3 Feet of pavement must have Flowable Fill Backfill.
* Applicant is Responsible for any damage to Roadway Pavement

GENERAL

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: i.e., 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."

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 its 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.

Utilities in the Work Areas

The permittee is to 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, are to be at the expense of the permittee and subject to the approval of the Department.

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

RIGHT-OF-WAY RESTORATION

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 (latest edition). A satisfactory turf, as determined by the Department, is to be established by the permittee prior to release of indemnity. Sodding or seeding 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-off-Way Lawn Maintenance Situation	-70% KY 31 Fescue -30% Perennial Rye Grass or 100% KY Fescue

Two tons clean straw mulch per acre of seeding.

Prior to seeding, the ground must 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 or rocked mulch or paved areas may be acceptable if they are aesthetically pleasing.

All ditch flow lines and all ditch side slopes are to be sodded.

Existing concrete right-of-way markers are not to be disturbed, but if damaged in any way, they are to 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 which are entirely removed are to 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:

DRAINAGE

All pipe is to 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 is not to be covered until inspected by the Department and express permission obtained to make backfill.

All gutter lines at the base of new curbs are to be on continuous grades, and pockets of water along curbs, or in entrance areas or other paved areas within the right-of-way, are not 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: FF Damage

Permit No. 06-0063-07

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Page

VI. PAVING

- [x] No bituminous pavement is to be installed within the right-of-way between November 15 and April 1, nor when the temperature is below 40°F, without the express consent of the Department. No bituminous pavement is to be installed when the underlying course is wet.
- [x] Paving within the right-of-way shall be as follows:
- [x] Base (Type) Flowable Fill (Thickness) VARIOUS
- [x] Surface Base (Type) Bit Base (Thickness) match existing
- [x] Finished Surface (Type) Bit. Surface (Thickness) 1¼"
- [x] Existing pavement and shoulder material shall be removed to accommodate the above paving specifications.
- [x] 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.
- [x] All materials and methods of construction, including base and subgrade preparation, shall be in accordance with Kentucky Department Highways Specifications for Road and Bridge Construction, latest edition.
- [x] 24 hours notice to the Department is required prior to beginning paving operations:

  Phone: 859-341-2700 Name MARK BRANDON
- [x] To insure proper surface drainage the new pavement is to be flush with the edge of existing highway pavement and is to slope away from the existing edge of the pavement as specified on drawings.
- [x] 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 pavement.

VII. SIDEWALKS SPECIFICATIONS

New Sidewalks

- [ ] Sidewalks are to be constructed of Class A concrete (3,500 p.s.i. test), are to be * _____ feet in width, are to be 6" in thickness acro the bituminous entrance and 4" in thickness across the remaining sections.
- [ ] Sidewalks are to have tooled joints, not less than 1" in depth at *four (4) foot intervals, and ½ premolded expansion joints extending entire through the sidewalk at intervals not to exceed fifty (50) feet.

** This dimension should be equal to the width of the sidewalk*

- [ ] All materials and methods of construction, including curing, is to be in accordance with 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 is not to be blocked or obstructed, and a usable walkway is to b maintained across the construction area at all times.
- [ ] All damaged sections of the sidewalks are to be entirely replaced to match existing sections.

VIII. DENSE GRADED SHOULDERS

- [ ] Any existing dense graded aggregate shoulders in the entire frontage within the construction area, which have been disturbed, damaged, on which dirt has been placed or mud is deposited or tracked, are to 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 on the plan are to consist of 5" compacted dense graded aggregate 2½ pounds per square yarc calcium chloride.
- [ ] All dense graded aggregate shoulders are to slope away from the new edge of pavement at the rate of ¾" 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 Highway specifications.
- [ ] All bituminous curbs shall be of the rolled curb type with a minimum base width of 8" 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 are to be constructed of Class A concrete (3,500 p.s.i. test) and are to 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, is to be in accordance with Department of Highways Standard Specifications for Road and Bridge Construction, latest edition.
- [ ] All concrete curbs are to be 6" in width, extend _____ " above finished grade and 12" below finished grade, with all visible edge rounded to ½" radii.
- [ ] All concrete curbs shall have expansion joints constructed at intervals of not more than 30 feet and ½" 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 finish grade.

K. RIGHT-OF-WAY FENCE REPLACEMENT

- [ ] The replacement fence shall be a height of at least 48" and shall be of sufficient density to contain all animals. (If applicable)
- [ ] The replacement fence shall be a minimum of one foot (1') and a maximum of two feet (2') 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 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 TO CONFORM WITH THE APPROVED PLANS.

TC 99-13
Rev. 9/04

Department of Highways

KENTUCKY TRANSPORTATION CABINET

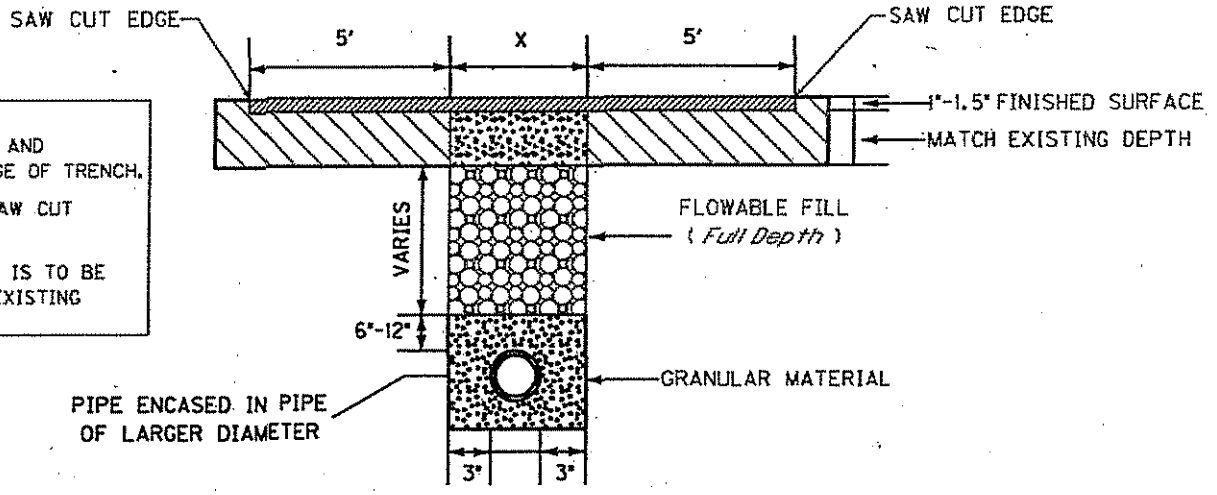
Permits Branch

Permit No. 06-0063-07

SURFACE RESTORATION METHODS

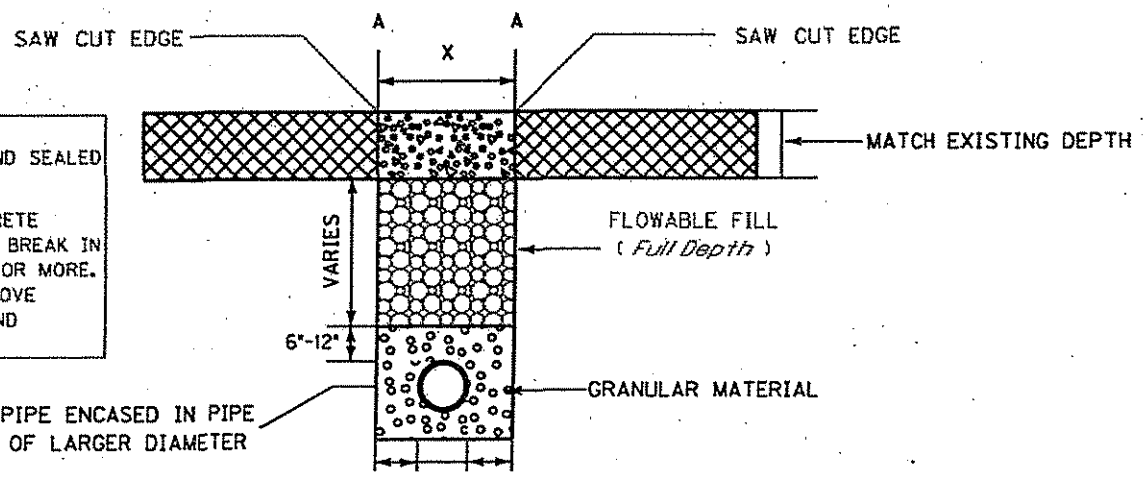
Bituminous Surfacing

NOTES:
- SURFACE SHALL BE MILLED AND REPLACED 5 FEET PAST EDGE OF TRENCH.
- SURFACE EDGE SHALL BE SAW CUT ON ALL REPAIRS.
- AN APPROVED JOINT SEALER IS TO BE APPLIED BETWEEN NEW AND EXISTING PAVEMENT.



Concrete Pavement

NOTES:
- ALL EDGES SHALL BE SAW CUT AND SEALED WITH APPOVED JOINT SEALER.
- DISTANCE FROM POINTS "A" (CONCRETE PAVEMENT) TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE SIX (6) FEET OR MORE. IF LESS THAN SIX (6) FEET, REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.



TRANSPORTATION CABINET

Ernie Fletcher
Governor

Department of Highways District 6 Office
421 Buttermilk Pike
P.O. Box 17130
Covington, KY 41017
(859) 341-2700

Bill Nighbert
Secretary

Marc Williams
Commissioner of Highways

February 12, 2007

RECEIVED
FEB 23 2007
ENGINEERING DEPT.

SUBJECT: Kenton County, -59-1486-1.275
KY 1486 (FOWLER CREEK ROAD)
Permit Number 06-0065-07

Dear NORTHERN KENTUCKY WATER SERVICE DISTRICT:

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 record 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 January 1, 2008. When the permitted work and any necessary restoration have been completed please notify this office by using the attached form which will serve as notification for final inspection.

If there are any questions regarding this permit, please do not hesitate to contact Edmond C. Thompson at 859-341-2700 or fax number 859-341-6729.

Sincerely,

Edmond C. Thompson for

Tom Schomaker, P.E.
Chief District Engineer
Department of Highways
District 6 -Covington
P.O. Box 17130
Covington, KY 41017

NOTICE OF COMPLETION OF ENCROACHMENT PERMIT WORK

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

Applicant Identification	Project Identification
Name: NORTHERN KENTUCKY WATER SERVICE	Permit Number: 06-0065-07
Contact Person:	County: Kenton
Address: P.O. BOX 17010	Route Number: 1486
City: COVINGTON	Road Name: FOWLER CREEK ROAD
State: KY Zip: 41017	Milepoint: 1.275
Telephone: 606-331-3066	

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

Applicant

Please Return To: Department of Highways
District 6 Covington
P.O. Box 17130
Covington, Ky. 41017

Attention: Edmond C. Thompson

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

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Rev.

Released Date _____

ENCROACHMENT PERMIT

PERMIT NO. 06-0065-07

APPLICANT IDENTIFICATION:

NAME: Northern Kentucky Water District
PERSON: Steve Broering
ADDRESS: 3049 Dixie Highway
CITY: Covington
STATE: KY ZIP CODE: 41017
PHONE: area code (859) 426-2728

PROJECT IDENTIFICATION:

ACCESS CONTROL: [X] By Permit [ ] Partial [ ] Full
COUNTY: KENTON PRIORITY ROUTE NO: KY 1486
MILEPOINT: X [ ] Left [X] Right [ ] X-ing
PROJECT STATUS: [X] Maint. [ ] Const. [ ] Design
PROJECT # STATE: MP-059-1486
PROJECT # FEDERAL:
ROAD/ STREET NAME: FOWLER CREEK ROAD

TYPE OF ENCROACHMENT:

[ ] COMMERCIAL ENTRANCE - BUSINESS
[ ] PRIVATE ENTRANCE: [ ] Single Family [ ] Farm
[X] UTILITY: [ ] Overhead [X] Underground
[ ] GRADE: [ ] Fill [ ] Landscape on R/W
[ ] AIRSPACE: [ ] Agreement [ ] Lease
[ ] OTHER: (Specify)

ATTACHMENTS:

[ ] Standard Drawings (List on TC 99-21 under Misc.)
[X] Applicant's Plans
[ ] Highway Plan and Profile Sheets
[ ] TC 99-3 (Ponding Encroachment Specs. & Conditions)
[ ] TC 99-4 (Rest Area Usage Specs. & Conditions)
[ ] TC 99-5 (Tree Cutting/Trimming Specs. & Conditions)
[ ] TC 99-6 (Chemical Use of Specs. & Conditions)
[ ] TC 99-10 (Typical Hwy. Boring Crossing Detail)
[ ] TC 99-12 (Overhead Utility Encroachment Diagram)
[X] TC 99-13 (Surface Restoration Methods)
[X] TC 99-21 (Encroachment Permit General Notes & Specs.)
[ ] TC 99-22 (Agreement for Services to be Performed)
[ ] TC 99-23 (Mass Transit Shelter Specs. & Conditions)
[ ] Other Attachments (Specify):

APPROVED
FEB 12 2007

TYPE OF INDEMNITY: [ ] Bond [ ] Cash
[X] SELF-INSURED AMOUNT ENCUMBERED $ 25,000
[ ] OTHER

NAME AND ADDRESS OF LOCAL INSURANCE AGENCY OR SELF-INSURED REPRESENTATIVE:

INDEMNITY: The applicant, in order to secure this obligation, has deposited with the Transportation Cabinet as a guarantee of conformance with the Department's Encroachment Permit requirements, an indemnity in the amount of $ _____ as determined by the Department. It shall be the responsibility of the applicant or permitee; his heirs and assignees to keep all indemnities in full force until construction or reconstruction has been completed and duly accepted by an authorized agent of the Transportation Cabinet, Department of Highways.

BRIEF DESCRIPTION OF WORK TO BE DONE: *(If private entrance, show sketch with pipe location. Separate attached drawings required for encroachments other than private entrances.)*

FOWLER CREEK ROAD – FROM SENOUR ROAD TO COX ROAD
Installation of 1550' of 12" Ductile IRON WATERMAIN.
MP 1.275 – 2.590

IMPORTANT (PLEASE READ): Applicant [ ] does [X] does not intend to apply for excess R/W

When the work is completed in accordance with the terms of this encroachment permit, your idemnity will be released. However, the permit is active until revoked by the Transportation Cabinet and the terms on the permit accompanying permit documents and drawings remain in effect as long as the encroachment exists. FUTURE MAINTENANCE OF THE ENCROACHMENT IS THE RESPONSIBILITY OF THE PERMITTEE. It is important that you understand the requirements of this encroachment permit application and accompanying documents. If you have not done so, it is suggested that you review these documents and place the permit package in a safe place for future reference.

A copy of this permit and all documents shall be given to your contractor and shall be readily available at the work site for the encroachment permit inspector to review at all times. Failure to meet this requirement may result in cancellation of this permit.

IN THE EVENT THIS APPLICATION IS APPROVED, THIS DOCUMENT SHALL CONSTITUTE A PERMIT FOR THE APPLICANT TO USE THE RIGHT-OF-WAY, BUT ONLY IN THE MANNER ...

The permittee agrees to the following terms and conditions:

TC 99
Rev. 3

1. The permittee shall comply with and is bound by the requirements of the Department's Permits Manual as revised to and in effect on the date of the issuance of this permit which is made a part hereof by refer

2. Permittee agrees that if the Department determines that vehicular capacity deficiencies or over capacity conditions develop as a result of the installation and use of this facility, the permittee shall adjust, reloca reconstruct the facilities and/or provide and bear the expenses for signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department and as set forth in the Department's Pe Manual within a reasonable length of time after receipt of written notice regarding such adjustments, relocation, additions, modifications, and/or corrective measures, such time to be specified in the notice. In cases where traffic signals are permitted or required, as determined by the Department, the costs for signal equipment and installation(s) shall be borne by the permittee and/or the Department in accordance Department policy then in force as set forth in the Traffic Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property be the responsibility of the permittee, at no expense to the Department. (This applies only to Entrance Permits.)

3. The said encroachment will not infringe on the frontage rights of an abutting owner without written consent of the said owner as hereto: "I (we) consent to the granting of attached permit."
_____ Date _____ (This does not apply to utilities which serve the general public.)

4. Any permit granted hereunder shall be with the full understanding that it shall not interfere with any similar rights or permits heretofore granted to any other party except as otherwise provided by law.

5. A plan prepared by UZOX & UZOX and dated 4/15/06 is attached hereto and made a part hereof, which describes the facilities to be constructed by the permittee for which facilities this permit is granted. The permittee agrees as a condition to the issuance of the permit to construct and maintain such facilities in accordance with said plan, and the permittee s not use the facilities authorized herein in any manner contrary to that prescribed by this permit and plan. Normal usage and routine maintenance only are authorized under this permit.

6. Permittee shall comply with the Manual on Uniform Traffic Control Devices as revised to and in effect on the date of the issuance of this permit which is made a part hereof by reference.

7. Permittee shall at all times from date when work is first commenced and until such time as all facilities are removed from the right-of-way premise, defend, protect, and save harmless the Department from all liability, claims, and demands arising out of work undertaken by the permittee pursuant to this permit, due to any negligent act or omission by the permittee, its servants, agents, employees, or contractors. T provision shall not inure to the benefit of any third party or operate to enlarge any liability of the Department beyond that existing at common law if this right to indemnity did not exist.

8. Upon a violation of any of the provisions of this permit, the Department may revoke the permit by giving notice to the permittee in writing to remove from the right-of-way any facilities placed thereon within a reasonable time as set forth in the notice, and in the event said facilities are not so removed, and the right-of-way restored the Department may cause same to be removed, and the costs thereof shall be char the permittee.

9. The permittee, his successors and assigns shall use the encroachment premises in compliance with all Federal requirements imposed pursuant to the provisions of the Title VI of the Civil Rights Act of 1964 U.S.C. 2000-1) and regulations of the U.S. Department of Transportation as set forth in Title 49 C.F.R., Part 21, and as said regulations may be amended.

10. Permittee agrees that in the event it should become necessary, as may be reasonably determined by the Department, for the facilities covered by this permit to be removed or relocated in connection with the reconstruction, relocation, or improvement of the abutting highway, the Department may revoke this permit and require removal or relocation by the permittee at his own expense according and pursuant to the procedures provided in Paragraph 8 above except in those cases where the Department is required by law to pay any or all the same.

11. The permittee understands and agrees that this permit is personal to the permittee and shall not inure to his successors and assigns without the written approval of the Department that he is bound by the provisions of this permit as long as the encroachment exists unless a written release has been obtained from the Department. (Does not apply to utilities serving the general public.)

12. If the work authorized by this permit is on a project in the construction phase, it shall be the responsibility of the permittee to make personal contact with _____ Resident Engineer on the project to coordinate the permitted work with the State's prime contractor on the project.

13. This permit does not alleviate any requirements of any other government agency.

14. Permittee agrees to keep the priority route in which this permit was issued clear of dirt, mud, and debris during construction and for the life of this permit.

THE UNDERSIGNED APPLICANT (being duly authorized representative/owner) DOES AGREE TO ALL TERMS AND CONDITIONS SET FORTH HEREIN.

☑ January 1st ☐ July 1st , 20 08	12/18 , 20 06	Steve Brown
Completion Date	Date	Signature

RECOMMENDED FOR APPROVAL

D. S.	E. O.	W. H. Madden	2/12 , 20 07
Title	Signature	Chief District Engineer	Date

PRIVATE ENTRANCE: TO BE COMPLETED BY PERSONNEL INSTALLING FACILITY.

Installed By: _____ , 20

Title | Signature | Date

ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

Permit No. 06-0065-07

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 8:00 am and 4:30 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

☒ Any Detour plan needs prior review from KDOT - Permit office before approval will be granted.
This Permit allows use of flagmen and closing of ONE LANE for construction.

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. 06-0065-07

II. UTILITIES (Continued)

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

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

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

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

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

☒ Special requirements:

Flowable fill required for utility under roadway pavement.
Mill & Overlay of 1 1/2 inch required for roadway where utility is installed.

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.

Permit No. 06-0065-07

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:

Any damage to private driveway culverts will be the responsibilty of the applicant to repair or replace, ASAP.

Permit No. 06-0065-07

VI. Paving

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

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

☒ Base (Type) Flowable Fill (Thickness) Various depth

☒ Surface Base (Type) Bit. Base. Cl 2 (Thickness) 9 inch min or match existing

☒ Finished Surface (Type) Bit. Surface PG-64-22 0.38D (Thickness) 1 1/2 inch - Mill & Overlay

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

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

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

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

Phone: 341-2700 Name: Mark Brannon

☒ 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. 06-0065-07

VIII. DENSE GRADED SHOULDERS

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

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

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

IX. CURBING

A. Bituminous Curbs

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

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

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

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

B. Concrete Curbs

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

☐ 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. 06-0065-07

X. RIGHT-OF-WAY FENCE REPLACEMENT

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

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

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

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

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

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

☐ Miscellaneous:

NOTICE TO PERMITTEE

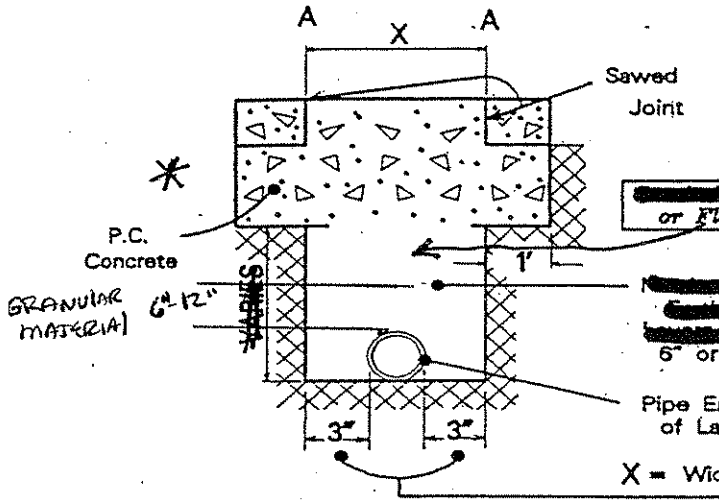
THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF HIGHWAYS SHALL BE REMOVED BY THE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

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

TC 99-13
Rev. 2/95

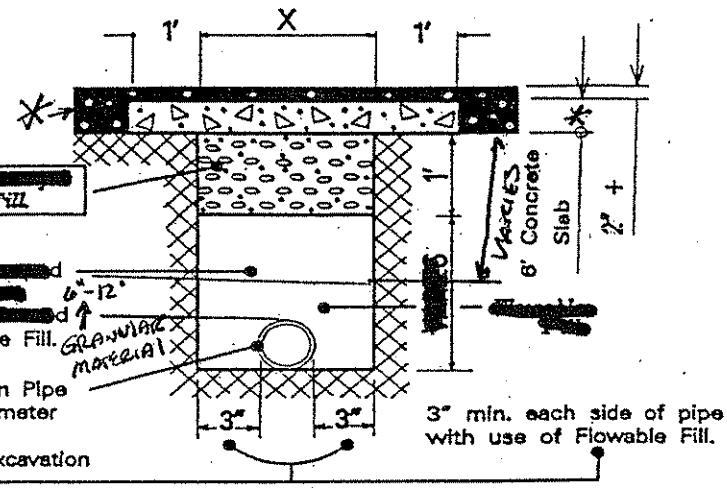
SURFACE RESTORATION METHODS

Concrete Pavement



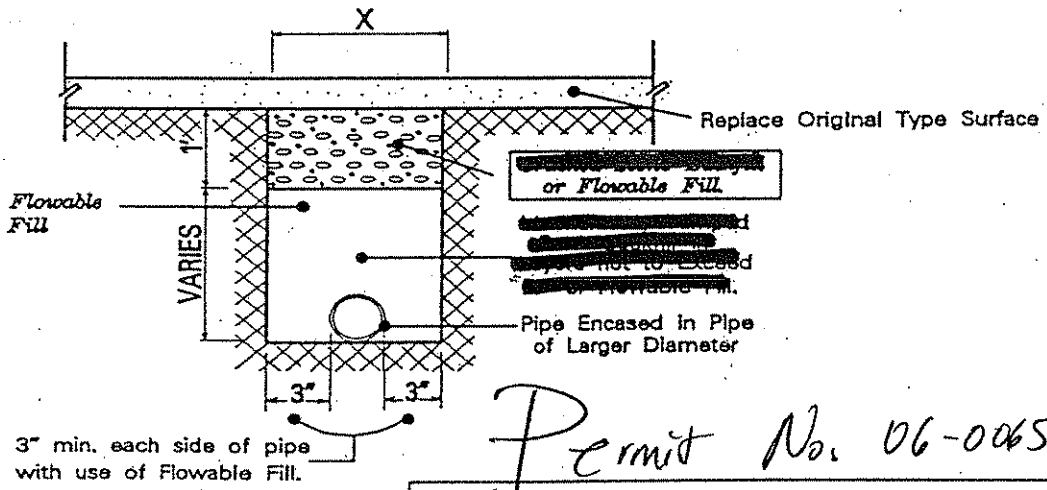
Replace Concrete Pavement with new pavement same thickness of existing pavement.

Bituminous Surfacing 2"+



Repace Bituminous Pavement with same type and depth as existing pavement.

Bituminous Surface Less Than 2" & Traffic Bound Macadam



Permit No. 06-0065-07

NOTE:

1. Distance From points "A" (Concrete Pavement) to nearest joint or break in pavement must be six (6) feet or more. If less than six (6) feet, remove pavement to joint or break and replace entire slab.

2. Concrete slab under Bituminous Surface to extend twelve (12) inches on each side of trench.

3. An approved joint sealer to be applied between new and existing pavement.

KENTUCKY TRANSPORTATION CABINET

Department of Highways

Methods of Surface Restoration Due to Open trench Pipe Installation

* MATCH DEPTH OF EXISTING PAVEMENT DESIGN

RECEIVED
JAN 25 2007
ENGINEERING DEPT.

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-2150
FAX (502)564-4245
www.dep.ky.gov

Teresa J. Hill
Secretary

Lloyd R. Cress
Commissioner

January 19, 2007

Mr. Justen Dennis, Engineering Technician
Northern KY Water Service
2835 Crescent Springs Rd.,
Erlanger, KY 41018

RE: Northern KY Water Service, PWS--2485
DW #0590220-07-001
Sub District G Phases 1-4
Activity ID # APE20070001
Kenton County, Kentucky

Dear Mr. Dennis:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 14,520 feet of 24-inch DI, 5,658 feet of 12-inch DI water line, 18,615 feet of 8-inch PVC, 14,933 feet of 8-inch DI, 815 feet of 6-inch DI and 696 feet of 6-inch PVC. 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 enclosed waterline extension construction permit.

If you have any questions regarding this decision, please contact Terry Humphries at 502/564-2225, extension 518.

Sincerely,

for Donna Marlin, Branch Manager
Drinking Water Branch
Division of Water

DSM: TWH

C: Viox and Viox, Inc.
Kenton County H.D.
Public Service Commission
Division of Plumbing

BACKFLOW DEVICE TEST REPORT

Name of Premises: Graham Packaging

Service Address: 8283 Dixie Hwy City: Independence

Location of Device: Rear of Bldg

Device: Manufacturer: Watts Model: 909RPZ Serial No.: 253187 ✓ Size: 1½" ✓

Test Gauge Type: TK99E Date of Last Calibration: 1 / 24 / 06

No. 1 Shutoff ☑ closed ☐ leaked No. 2 Shutoff ☑ closed ☐ leaked		**METER DETECTOR ASSEMBLY** Pass ☐ Fail ☐	
Line Pressure 70 psi	**Reduced Pressure Principle Assembly** **Double Check Valve Assembly**		**Pressure Vacuum Breaker**
INITIAL TEST	Check Valve #1 Leaked ☐ Closed ☑ RP. Pres. Drop ___ ___.__ psid	Check Valve #2 Leaked ☐ Closed ☑	Relief Valve Relief Opened @ 2.6 psid Relief Valve Passed ✓ Failed ____	Air Inlet Opened at ____ psid Did Not Open ____ Check Value Held at ____ psid Leaked ____
Repairs and / or Remarks:			
FINAL TEST	Tight ____ RP. Pres. Drop ___ ___.__ psid	Tight ____	Relief Opened @ ___ ___.__ psid	After Repair ____ / ____ / ____ Date

RECEIVED FEB - 7 2007 ENGINEERING DEPT.

PASSED ☑ **FAILED** ☐

NOTE: WE RECOMMEND AN EXPANSION TANK ON ANY CLOSED WATER SYSTEM

Remarks: FEB - 7 ENG'D

In completing and submitting this test report, the Tester certifies that the device has been tested and maintained in accordance with all applicable rules and regulations.

Customer's Signature _____ *Date* _____

Tester's Signature Allen L Hemp *Tester Number* 4 *Date* 2-2-07

CERTIFICATION: (OWNER / OCCUPANT)

I hereby certify that the above backflow prevention device has been in constant use at this location since the last annual inspection and that defects found during the operation period or during tests of device were satisfactorily corrected without delay. This device was not by-passed, made inoperative or moved without written authorization. I further certify that I have the responsibility and authority to insure the above.

Owner / Officer (signature): _____ Title: _____

Owner / Officer (print): _____ Date _____

Title / Position (print): _____

RETURN FORM TO: **Northern Kentucky Water District**
Backflow Prevention Technician
P.O. Box 18640
Erlanger, Kentucky 41018

White - N. K. W. D. *Pink - Customer* *Yellow - Tester*

Distribution-Major Construction

Northern KY Water Service

Subject Item Inventory

Activity ID No.: APE20070001

Subject Item Inventory:

ID	Designation	Description
AIOO2485		
PORT155	Water Lines	14,520 ft of 24" DI; 5,658 ft of 12" DI; 18,615 ft of 8" PVC; 14,933 ft of 8" DI; 815 ft of 6" DI; 696 ft of 6" PVC

Subject Item Groups:

ID	Description	Components
GACT155	14,520 ft of 24" DI; 5,658 ft of 12" DI; 18,615 ft of 8" PVC; 14,933 ft of 8" DI; 815 ft of 6" DI; 696 ft of 6" PVC	PORT155 14,520 ft of 24" DI; 5,658 ft of 12" DI; 18,615 ft of 8" PVC; 14,933 ft of 8" DI; 815 ft of 6" DI; 696 ft of 6" PVC

KEY

ACTV = Activity
AREA = Area
EQPT = Equipment
PERS = Personnel
STOR = Storage
TRMT = Treatment

AIOO = Agency Interest
COMB = Combustion
MNPT = Monitoring Point
PORT = Transport
STRC = Structure

Distribution-Major Construction
Northern KY Water Service
Facility Requirements

Activity ID No.: APE20070001

ACT155 (Sub District G Phases 1-4) 14,520 ft of 24" DI; 5,658 ft of 12" DI; 18,615 ft of 8" PVC; 14,933 ft of 8" DI; 815 ft of 6" DI; 696 ft of 6" VC:

Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	Coliform	The presence or absence of total Coliform monitored by sampling and analysis as needed shall be determined for the new or relocated water line(s). Take samples at connection points to existing lines, at 1 mile intervals, and at dead ends without omitting any branch of the new or relocated water line. Sample bottles shall be clearly identified as "special" construction tests. [401 KAR 8:100 Section 1(7), 401 KAR 8:150 Section 4, Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.

Submittal/Action Requirements:

Coliform:

Condition No.	Condition
S-1	Coliform For new construction projects, the distribution system, using the most expedient method, shall submit Coliform test results to the Cabinet: Due immediately following disinfection and flushing. [401 KAR 8:150 Section 4(2)]

Condition No.	Condition
S-2	For proposed changes to the approved plan, submit information: Due prior to any modification to the Cabinet for approval. Changes to the approved plan shall not be implemented without the prior written approval of the Cabinet. [401 KAR 8:100 Section 1(8)]
S-3	The person who presented the plans shall submit the professional engineer's certification: Due when construction is complete to the Division of Water. The certification shall be signed by a registered professional engineer and state that the water project has been constructed and tested in accordance with the approved plans, specifications, and requirements. [401 KAR 8:100 Section 1(8)]

ACT155 (continued):

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-1	Additional Limitations: Chlorinated water resulting from disinfection of project components shall be disposed in a manner which will not violate 401 KAR 5:031. [401 KAR 8:020 Section 2(20)]

Condition No.	Condition
T-2	This project has been permitted under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit 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. Further, this permit does not address the authority of the permittee to provide service to the area to be served. [401 KAR 8:100 Section 1(7)]
T-3	Unless construction of this project is begun within 1 year from the issuance date of this permit, the permit shall expire. If requested prior to the permit expiration, an official extension from the Division of Water may be granted. If this permit expires, the original plans and specifications may be resubmitted for a new comprehensive review. If you have any questions concerning this project, please contact the Drinking Water Branch at 502/564-3410. [401 KAR 8:100 Section 1(9)]
T-4	During construction, a set of approved plans and specification shall be available at the job site at all times. All work shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 1(7)(a)]

'ORT155 (Water Lines) 14,520 ft of 24" DI; 5,658 ft of 12" DI; 18,615 ft of 8" PVC; 14,933 ft of 8" DI; 815 ft of 6" DI; 696 ft of 6" PVC:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Depth	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a Depth >= 6 in below the bottom of the pipe. [Recommended Standards for Water Works 8.5.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-2	Depth	All water lines shall be covered to a Depth >= 30 in to prevent freezing. [Recommended Standards for Water Works 8.5.3, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-3	Diameter	All new and existing water lines serving fire hydrants or where fire protection is provided shall have Diameter >= 6 in. [Recommended Standards for Water Works 8.1.2] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-4	Distance	Water lines shall have a sufficient quantity of valves so that inconvenience and sanitary hazards will be minimized during repairs. A valve spacing Distance <= 800 feet should be utilized in non-commercial districts. Alternatively, non-commercial districts should utilize a valve spacing Distance <= 1 block. Commercial districts should utilize a valve spacing Distance < or = 500 ft. [Recommended Standards for Water Works 8.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-5	Distance	Hydrant drains shall not be connected to sanitary sewers or storm drains and shall be located a Distance > 10 ft from sanitary sewers and storm drains. [Recommended Standards for Water Works 8.3.4] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-6	Distance	Except when not practical, water lines shall be laid a horizontal Distance >= 10 ft from any existing or proposed sewer. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot separation, water lines may be installed closer to a sewer provided that the water lines shall be laid in a separate trench or on an undisturbed shelf located on one side of the sewer at such an elevation that the bottom of the water line is at least 18 inches above the top of the sewer. [Recommended Standards for Water Works 8.6.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.

ORT155 (continued):

Limitation Requirements:

Condition No.	Parameter	Condition
L-7	Distance	When water lines and sewers cross, 1) water lines shall be laid such that either a) the the top of the water line is a vertical Distance >= 18 in below the bottom of the sewer line or b) the bottom of the water line is a vertical Distance >= 18 in above the top of the sewer line, 2) 1 full length of the water pipe shall be located so that both joints of the water pipe will be as far from the sewer as possible, and 3) special structural support for the water and sewer pipes may be required. [Recommended Standards for Water Works 8.6.3] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-8	Distance	The open end of an air relief pipe from automatic valves shall be extended a Distance >= 1.0 ft above grade and provided with a screened, downward-facing elbow. The pipe from a manually operated valve shall be extended to the top of the pit. Use of manual air relief valves is recommended wherever possible. [Recommended Standards for Water Works 8.4.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-9	Pressure	Pipes shall not be installed unless all points of the distribution system remain designed for ground level Pressure >= 20 psi under all conditions of flow. [Recommended Standards for Water Works 8.1.1] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-10	Pressure	Pressure >= 30 psi must be available on the discharge side of all meters. [401 KAR 8:100 Section 4(2)] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.
L-11	Residual Disinfection	New or relocated water lines shall be thoroughly disinfected (in accordance with AWWA Standard C651) upon completion of construction and before being placed into service. To disinfect the new or relocated lines use chlorine or chlorine compounds in such amounts as to produce an initial disinfectant concentration of at least 50 ppm and a Residual Disinfection >= 25 ppm at the end of 24 hours. Follow the line disinfection with thorough flushing and place the lines into service if, and only if, Coliform monitoring applicable to the line does not show the presence of Coliform. If Coliform is detected, repeat flushing of the line and Coliform monitoring. If Coliform is still detected, repeat disinfection and flushing as if the line has never been disinfected. Continue the described process until monitoring does not show the presence of Coliform. [401 KAR 8:150 Section 4(1), Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.

ORT155 (continued):

Limitation Requirements:

Condition No.	Parameter	Condition
L-12	Velocity	Each blow-off or fire hydrant shall be sized so that Velocity >= 2.5 ft/sec can be achieved in the water main served by the blow-off or hydrant during flushing. [Recommended Standards for Water Works 8.1.6.b, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.

Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	leaks	The presence or absence of leaks monitored by physical testing as needed shall be determined in all types of installed pipe. Pressure testing and leakage testing shall be in accordance with the latest edition of AWWA Standard C600. [Recommended Standards for Water Works 8.5.5] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.

Narrative Requirements:

Asbestos (Friable):

Condition No.	Condition
T-1	Asbestos (Friable): If the existing water line to be tapped is asbestos concrete, then the contractor shall conform to OSHA regulations governing the handling of hazardous waste during the process of tapping the asbestos concrete line. Pieces of asbestos concrete resulting from the tap shall be double bagged, placed in a rigid container and disposed of in an approved landfill. [401 KAR 8:100 Section 1(7)]

ORT155 (continued):

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-2	Additional Limitations: Water line installation shall be in accordance with AWWA standards or manufacturer recommendations. [Recommended Standards for Water Works 8.5.1]
T-3	Additional Limitations: Pipes, fittings, valves and fire hydrants shall conform to the latest standards issued by the AWWA or NSF (if such standards exist). PVC and PE piping used must be certified to ANSI/NSF Standard 61. [Recommended Standards for Water Works 8.0.1]
T-4	Additional Limitations: At high points in water lines, where air can accumulate, provisions shall be made to remove the air by means of hydrants or air relief valves. Automatic air relief valves shall not be used in situations where manhole or chamber flooding may occur. [Recommended Standards for Water Works 8.4.1]
T-5	Additional Limitations: All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.5.4]
T-6	Additional Limitations: A fire hydrant or blow-off shall be required at the end of each dead end line. [Recommended Standards for Water Works 8.1.6]
T-7	Additional Limitations: For each fire hydrant, auxiliary valves shall be installed in the hydrant lead pipe. [Recommended Standards for Water Works 8.3.3]
T-8	Additional Limitations: No flushing device, blow-off, or air relief valve shall be directly connected to any sewer. Chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances shall not be directly connected to any storm drain or sanitary sewer. Such chambers, pits or manholes shall be drained to absorptions pits underground or to the surface of the ground where they are not subject to flooding by surface water. [Recommended Standards for Water Works 8.1.6, Recommended Standards for Water Works 8.4.3]
T-9	Additional Limitations: If water lines are installed or replaced in areas of organic contamination or in areas within 200 ft of underground or petroleum storage tanks, ductile iron or other nonpermeable materials shall be used in all portions of the water line installation or replacement. [401 KAR 8:100 Section 1(5)(d)6, Recommended Standards for Water Works 8.0.2]

'ORT155 (continued):

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-10	Additional Limitations: No water pipe shall pass through or come in contact with any part of a sewer manhole. [Recommended Standards for Water Works 8.6.6]
T-11	Additional Limitations: If a fire sprinkler system is to be installed, a double check detector assembly approved for backflow prevention shall be utilized. The double check detector assembly of the system shall be accessible for testing. [401 KAR 8:100 Section 1(7)]

Case No. 200-00131
Exhibit E

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Copy of Rate Schedule,
Customer Notice and
Proposed Tariff

NOTICE OF FUTURE WATER SERVICE AND SURCHARGE

In a section of Rural Kenton County, funded in part by a Kentucky Infrastructure Authority Grant, Northern Kentucky Water District will seek approval of the Public Service Commission of Kentucky to furnish potable water service to Sub-District G Water Main Extension Project. This project is located in the rural area in Kenton County which includes the following streets or portions thereof:

Sub-District G – Banklick Road, Independence Road, Cody Road, Upton Drive, Webster Road, Sugar Camp, Wolf Road, Lieberman Road, Bramlage Road, Bullock Pen Road, Fowler Creek Road, Klein Road, Petty Road, Pruett Road, Pleasure Isle Drive and Estate Lane.

Total construction costs for this project will be in excess of $7 million. The proposed consumer rates will be:

PRELIMINARY NORTHERN KENTUCKY WATER DISTRICT
MONTHLY WATER RATES FOR PROPOSED
SUB-DISTRICT G WATER MAIN EXTENSION PROJECT

ESTIMATED MONTHLY SURCHARGE OF $30.00
SHALL BE ADDED TO THE MINIMUM MONTHLY BILL

RETAIL WATER RATES

1. Rates

First - 1,500 cubic feet (11,220 gals.) used per month $2.81/100 cubic feet ($3.76/1,000 gals.)
Next - 163,500 cu. ft. (1,222,980 gals.) used per month $2.43/100 cu. ft.($3.25/1,000 gals.)
Over – 165,000 cu. ft. (1,234,200 gals.) used per month $2.16/100 cu. ft. ($2.89/1000 gals.)

Minimum Monthly charges by meter sizes shall apply for each size meter.

Meter Size	Minimum Monthly Amount	Meter Size	Minimum Monthly Amount
5/8"	$ 10.63	3"	$ 41.22
3/4"	$ 10.99	4"	$ 51.63
1"	$ 12.00	6"	$ 76.45
1 1/2"	$ 13.51	8"	$ 103.24
2"	$ 17.07	10"& Larger	$ 137.30

2. Delayed Payment Charge: 10% penalty

3. Sample Monthly Bill Amount for a 5/8" meter is as follows:

Estimated Monthly Usage of 1,000 Gallons -- Estimated Monthly Bill = $44.39
Estimated Monthly Usage of 2,000 Gallons -- Estimated Monthly Bill = $48.15
Estimated Monthly Usage of 3,000 Gallons -- Estimated Monthly Bill = $51.94
Estimated Monthly Usage of 4,000 Gallons -- Estimated Monthly Bill = $55.67
Estimated Monthly Usage of 5,000 Gallons -- Estimated Monthly Bill = $59.43
Estimated Monthly Usage of 6,000 Gallons -- Estimated Monthly Bill = $63.19

Note: Actual bill will vary according to actual measured usage. Measured usage will be in cubic feet.

Note: The estimated monthly bill includes the $30.00 surcharge amount.

The proposed surcharge may be changed by the Ky. Public Service Commission and may be higher or lower than proposed.

Any corporation, association, body politic or person may by timely motion, within 30 days of this notice, request intervention in the case. The motion must be submitted in writing to the Public Service Commission, 211 Sower Blvd., Box 615 Frankfort, KY 40602 and should state the grounds for the request, including the interest and status of the party. Customers may obtain without cost a copy of the Application and any testimony filed by contacting Northern Kentucky Water District at the address below. Interveners may obtain a copy of the Application and supporting documents. A copy of the Application and testimony is available for public review at the District's office.

For further information contact the PSC of Kentucky at PO Box 615 Frankfort, KY 40602 (Tel: 502 564 3940). Or contact the undersigned.

Northern Kentucky Water District
2835 Crescent Springs Road
PO Box 18640
Erlanger, KY 41018
(859) 578-9898

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERIVCE COMMISSION IN CASE NO. 2005-00148 DATED April 28, 2006

The following rates and charges are prescribed for the customers in the area served by Northern Kentucky Water District. All other rates and charges not specifically mentioned herein shall remain the same as those in effect under authority of this Commission prior to the effective date of this order.

Effective Date: June 1, 2006

1. **Service Charges**

Meter Size	Monthly	Quarterly
5/8"	$ 10.63	$ 16.09
3/4"	$ 10.99	$ 16.95
1"	$ 12.00	$ 19.49
1 ½"	$ 13.51	$ 22.96
2"	$ 17.07	$ 32.28
3"	$ 41.22	$100.44
4"	$ 51.63	$126.09
6"	$ 76.45	$186.08
8"	$103.24	$254.22
10" and larger	$137.30	$331.96

2. **Commodity Charges**

	Monthly Block	Quarterly Block	Rate
First	1,500 cubic feet	4,500 cubic feet	$2.81 per 100 cubic feet
Next	163,500 cubic feet	490,500 cubic feet	$2.43 per 100 cubic feet
Over	165,000 cubic feet	495,000 cubic feet	$2.16 per 100 cubic feet

3. **Sub-district Charges (effective 1/12/07)**

Sub-district A shall be assessed a monthly surcharge in the amount of $ 9.30
Sub-district B shall be assessed a monthly surcharge in the amount of $18.96
Sub-district C shall be assessed a monthly surcharge in the amount of $19.84
Sub-district D shall be assessed a monthly surcharge in the amount of $30.00
Sub-district E shall be assessed a monthly surcharge in the amount of $30.00
Sub-district F shall be assessed a monthly surcharge in the amount of $30.00
Sub-district K shall be assessed a monthly surcharge in the amount of $29.00
Sub-district R shall be assessed a monthly surcharge in the amount of $18.81
Sub-district RF shall be assessed a monthly surcharge in the amount of $25.47
Sub-district RL shall be assessed a monthly surcharge in the amount of $36.64

Wholesale Water Rates

Bullock Pen Water District	$1.89 per 100 cubic feet or $2.53 per 1000 gallons
City of Walton	$1.89 per 100 cubic feet or $2.53 per 1000 gallons
Pendleton County	$1.89 per 100 cubic feet or $2.53 per 1000 gallons

iscellaneous Service Fees

Returned Check Charge	$20.00
Water Hauling Station	$ 3.50 per 1000 gallons
Service Charge	$25.00
Overtime Charge	$40.00

SECTION II – RETAIL WATER RATES

Northern Kentucky Water District Service Area

1. Monthly Service Rate

First	1,500 cubic feet	$2.81 per 100 cubic feet
Next	163,500 cubic feet	$2.43 per 100 cubic feet
Over	165,000 cubic feet	$2.16 per 100 cubic feet

Customers in Subdistrict A *shall be assessed a monthly surcharge in the amount of $9.84

Customers in Subdistrict B *shall be assessed a monthly surcharge in the amount of $19.46

Customers in Subdistrict C *shall be assessed a monthly surcharge in the amount of $20.33

Customer in Subdistrict D *shall be assessed a monthly surcharge in the amount of $30.00

Customers in Subdistrict E *shall be assessed a monthly surcharge in the amount of $30.00

Customers in Subdistrict F *shall be assessed a monthly surcharge in the amount of $30.00

Customers in Subdistrict G *shall be assessed a monthly surcharge in the amount of $30.00

Customers in Subdistrict K *shall be assessed a monthly surcharge in the amount of $30.00

Customers in Subdistrict R *shall be assessed a monthly surcharge in the amount of $18.89

Customers in Subdistrict RF *shall be assessed a monthly surcharge in the amount of $25.47

Customers in Subdistrict RL *shall be assessed a monthly surcharge in the amount of $37.50

*Subdistrict charges are reviewed annually.
*Detailed street listing within each Subdistrict can be found under Appendix A.
*Service connections on extensions or laterals from a Subdistrict street will be assessed the appropriate Subdistrict charge.

2. Quarterly Rates

First	4,500 cubic feet	$2.81 per 100 cubic feet
Next	490,500 cubic feet	$2.43 per 100 cubic feet
Next	495,000 cubic feet	$2.16 per 100 cubic feet

SECTION II – RETAIL WATER RATES – Cont'd

3. Fixed Service Charge

Meter Size	Monthly Service Charge	Quarterly Charge
5/8"	$10.63	$16.09
¾"	$10.99	$16.95
1"	$12.00	$19.49
1 ½"	$13.51	$22.96
2"	$17.07	$32.28
3"	$41.22	$100.44
4"	$51.63	$126.09
6"	$76.45	$186.08
8"	$103.24	$254.22
10" and Larger	$137.30	$331.96

SECTION III – WHOLESALE WATER SALES

Bullock Pen Water District	$2.53 per 1,000 gallons (or) $1.89 per 100 cubic feet
City of Walton	$2.53 per 1,000 gallons (or) $1.89 per 100 cubic feet
Pendleton County	$2.53 per 1,000 gallons (or) $1.89 per 100 cubic feet

SECTION IV – MISCELLANEOUS SERVICE FEES

Returned Check Charge	$ 20.00
Water Hauling Station	3.50 per 1,000 gallons
Service Charge	25.00 (See Definitions in Section 1-A)
Overtime Charge	40.00

APPENDIX A – Subdistrict Street Names

Customers in Subdistrict A

- Ashford Village Subdivision - Donegal Ct., Ashford Rd., Celtic Ct., Galloway Ct., Kildare Ct., Limerick Circlecourt, Waterford Ct. (Off of Mills Rd.)
- Bowman Rd. (KY 16 to end of road)
- Dorman Dr. (Hickory Grove to end of road)
- Gretchen Dr. (Ryland Estates Subdivision) – Stewart to end of road
- Hickory Grove Drive – KY 16 to end of road
- KY 177 – Porter Rd. to Pruett Rd.
- Manor Hill Subdivision - Briarcrest Lane, Burbridge Trail, Chipping Camden, Cotswold Way, Foxbourne Lane, Manor Hill Dr., Sussex Ct., Tanglewood Trace, Teenisian Pl., Willowhurst Trace & Windmere Hill (Off Marshall Rd.)
- Manor Lake Dr. – KY 16 to end of road
- Marshall Rd. – KY 16 to Stewart Rd.
- Miller Lane – Tapped off KY 177
- Mills Rd. – Marshall to Taylor Mill Water Service Area (5,700')
- Petty Rd. – Tapped off Marshall Rd.
- Pruett Rd. – KY 177 to 300'
- Riggs Rd. – KY 16 to end of road
- Ryland Trace Dr. – Subdivision off KY 177
- Staffordsburg Rd. – Marshall Rd. to Maverick
- Stewart Rd. – Marshall to KY 177
- Teegarden Lane – Bowman to end of road

Customers in Subdistrict B

- Armstrong Rd. – 1 service tapped off Moffett
- Bird Rd. – KY 17 to Wynewood
- Farmview Dr. – Moffett Rd. to end of pavement
- Gleason – 1 service tapped off Madison
- KY 17 (Madison Pike) – 12363 to 14158 – 1,200' North of Callant Rd. to Gleason
- Martin Rd. – Moffett Rd. to 3,650'
- Moffett Rd. – KY 17 to Armstrong Rd.
- Rector Rd. – Moffett Rd. to 8,100'
- Rosehawk Lane (Forrest Ridge Subdivision Off of Moffett)
- Wynewood Trail – Bird Rd. to end of road

Customers in Subdistrict C

- Banklick Rd. – From Bristow to Maher
- Callant – From KY 17 for the first 0.6 miles
- Dixon Dr. – 2 services tapped on KY 17, 1 service tapped on Rich Rd.
- Gardnersville Rd. – From KY 17 for the first 0.8 miles
- Glenhurst Subdivision – Chinkapin Circle, Berlander Dr., Glenhurst Dr., Lyonia Dr., Colton Ct., Hornbean Dr. Off of Maher Rd.)
  Glenhurst Subdivision – Glenhurst Drive (Subdistrict stops at Intersection of Glenhurst Dr. & Berlander Dr. Off of Maher Road

APPENDIX A – Subdistrict Street Names – Cont'd

- Glenhurst Subdivision – Glenhurst Drive (Sub district stops at Intersection of Glenhurst Drive & Berlander Drive, Off of Maher Road
- Graven Rd. – From Maher, 4,400' towards Wright Road
- Green Rd. – KY 16 to US 25
- Hempfling Rd. – First 2.1 miles
- Independence – From Shaw to Maher Rd., Maher 2700' towards Banklick
- KY 17 (Madison Pike) – 14192 – 15960 – Gleason to Pendleton County Line
- Maher – From Banklick Rd. to Kenton/Boone County Line
- Maher – From Independence Road to Banklick
- Martin Road – From Subdistrict B to Staffordsburg Road
- Mulberry Lane – (Rolling Greene Subdivision off of Green Road)
- Paxton Road – From KY 17 for the first 0.65 miles
- Percival Road
- Rector Road – From Subdistrict B to Kenton Station Road
- Rich Road – From KY 17 for the first 2.1 miles
- South Fork Estates Subdivision (South Fork Drive)
- South Fork Estates Subdivision (Thoroughbred Lane)
- South Fork Estates Subdivision – Stablegate
- Spillman Road – KY 17 to end of road
- Staffordsburg Road – From KY 16 to Martin Road
- Stephenson Road – From Green Road to the first 0.5 miles
- Symbo – From Green Road for the first 0.6 miles
- Tupelo Drive – Glenhurst Subdivision, Off of Maher Road
- US 25 – Walton City Limits to KY 14
- Visalia Road – From Klein Road to the school (waiting on PSC approval)
- Visalia Road – From Staffordsburg Road for 2 miles
- York Road – From US 25 to the first 0.4 miles

Customer in Subdistrict D

- 4 Mile Pike from Uhl Road to Geenvalle
- California Cross Roads from Saint Peter and Paul to Washington Trace Road
- Ky Route 8 to McDonald Lane off Blangey Road
- Persimmon Grove Pike from Burns Road to California Cross Road
- Persimmon Grove Pike from Stevens Branch to Shaw Hess
- Wagner Road – first .6 miles
- Winters Lane – County
- Providence Trace off of 4 Mile
- Licking Pike & Steffen Road from Route 10 to KY 936 – ky 936 before Poplar Thicket

Customers in Subdistrict E

- Bethel Grove
- Brandy Lane
- Bromley Crescent Springs Road
- Fiskburg Road (KY 17 to Goshorn Road)

APPENDIX A – Subdistrict Street Names – Cont'd

- Ishmael Road (KY 177 to 1200')
- Kenton Station (Rector Road to KY 177)
- KY 177 (North of Kenton Station 7100')
- KY 177 (North of Vises Trail 4250')
- KY 177 (South of Kenton Station 5400')
- KY 177 (South of Vises Trail 2850')
- Licking Station
- McDonald Avenue
- Oliver Road
- St. Johns Road
- Vises Trail from KY 177 to 1150' south of Visalia Road
- Whitaker

Customers in Subdistrict F

- Licking Pike
- West Main Street
- Steffen Road
- Grandview Road
- Amy Lou Drive
- Heck Road
- Flagg Springs Pike

Customers in Subdistrict G

- Banklick Road
- Independence Road
- Cody Road
- Upton Drive
- Webster Road
- Sugar Camp
- Wolf Road
- Lieberman Road
- Bramlage Road
- Bullock Pen Road
- Fowler Creek Road
- Klein Road
- Petty Road
- Pruett Road
- Pleasure Isle Drive
- Estate Lane

Customers in Subdistrict K

- Klette Road
- Rice Road
- Saylor Court
- Tamber Ridge Drive
- Sencely Court
- Chandrel Court
- Marshall Road
- Coleman Road

Customers in Subdistrict R

- Coleman Road – KY 177 to end of street
- Feiser Road – Porter Road to Locust Pike
- KY 177 – 500' North of Wards to 2900' South of Wards
- KY 177 – Porter Road to 800' North
- KY 177 – Pruett Road to Ryland Lakes Drive
- Locust Pike – 650' West of Whites end of road
- Locust Pike – Feiser Road to Wards Lane
- Porter Road – KY 177 to 7,500'
- Redrow – Locust Pike to end of street
- Spanton Road – Locust Pike to 1,300'
- Wards Lane – Locust Pike to KY 177
- Whites Road – KY 177 to Locust Pike

Customers in Subdistrict RF

- KY 177 (From Subdistrict R to short Marshall)
- Porter Road (From Tecuseh approximately 500')
- Short Marshall (KY 177 East 500')
- Tecumseh

Customers in Subdistrict RL

- Crystal Court
- Crystal Drive
- Crystal Lane
- Ernst Bridge Road
- Hillside Drive
- Maplewood Drive
- Meadow Lane
- Mirror Court
- Northall Court
- Orchard Lane
- Redbud Lane
- Ryland Lakes Drive
- Sylvan Lake Drive
- Wild Lake Drive

KLEER-FAX RECYCLED

80000 SERIES
30% P.C.W.

Case No. 200-00131
Exhibit F

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

Sources of Construction Funds

NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT - G WATER MAIN PROJECT
KENTON COUNTY SERVICE AREA
Prices Based on 1,000 Foot Fire Hydrant Spacing

STREET	DISTANCE MILES	TOTAL AVAIL. CUST	EST. SIGN-UPS	CUST. PER/MI	ACTUAL CUST. PER/MI	Bid Prices
Banklick Road	2.70	33	17	12.22	6.11	
24" Upgrade						$862,523
Bramlage Road (From Backlick to Wilson)	0.90	23	17	25.56	18.89	
Independence Road	0.23	4	2	17.39	8.70	
Total Phase 1						$1,702,292
Klein Rd. (Visalia to D.E.)	1.00	32	14	32.00	14.00	
Petty Road (From Marshall to End of Sub A)	1.00	26	10	26.00	10.00	
Estate Lane	0.27	9	8	33.33	29.63	
Total Phase 2						$627,102
Pleasure Isle Drive (New KY17 to D.E.)	0.19	10	8	52.63	42.11	
Bullock Pen Rd (From Old KY17 to D.E.)	0.70	20	12	28.57	17.14	
Misty Lane	0.11	4	2	36.36	18.18	
Cody Road (#5414 to #5365)	0.29	6	3	20.69	10.34	
Cody Road from Flagg Springs to #5545	0.52	8	4	15.38	7.69	
Webster Road (Off Cody Road)	0.27	5	3	18.52	9.26	
Upton Drive	0.25	4	2	16.00	8.00	
Total Phase 3						$902,435
Holly Hock	0.10	5	3	50.00	25.00	
Wolf	0.40	7	4	17.50	8.75	
Mer Creek Road	1.30	26	3	20.00	2.31	
12" upgrade cost						$103,032
Lieberman Drive	0.35	11	6	31.43	15.71	
Sugar Camp Road	0.40	10	5	25.00	12.50	
Total Phase 4						$1,306,178
	10.98	**243**	**121**	**22.13**	**23.52**	**$4,538,007**

Cost Estimate:

Construction	$4,538,007	
Engineering (actual)	$113,246	
Geo. Engineering	$32,149	
Geotechnical Inspection (0.06%)	$27,228	
KIA Administrative Fee (1/2 of 1%)	$15,000	
Legal	$5,000	
Contingencies	$790,192	$790,751
Total	$5,520,822	

Source of Funds:

KIA/State Budget Funding	**$3,000,000**	
Kenton County Fiscal Court	$50,000	
Northern Ky Water Dist. Bond Issue		
NKWD Extension Contribution	$750,000	Based on est.
NKWD Hydraulic Contribution	$1,103,095	$1,740,492
NKWD Customer Surcharge	$618,286	$618,286
Total	$5,521,381	

NORTHERN KENTUCKY WATER DISTRICT
SUBDISTRICT – G WATER MAIN PROJECT
KENTON COUNTY SERVICE AREA

100% of the Project Cost will fall under
NARUC USoA for Water Utilities Accounting Code 331 –
Transmission and Distribution Mains

KLEER-FAX RECYCLED

80000 SERIES
30% P.C.W.

Case No. 200-00131
Exhibit G

NORTHERN KENTUCKY WATER DISTRICT

Project – Sub District G

Campbell County
184-193

2005 Northern Kentucky Water District Annual Report for Class-A and Class-B Water Districts

Water Districts & Associations-Class A&B

Annual Report

Of

Northern Kentucky Water District
2835 Crescent Springs Road
Erlanger, KY 41018

To The

Public Service Commission

Of The

Commonwealth of Kentucky

211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40602

For the Calendar Year Ended December 31, 2005

CHECKLIST FOR THE ANNUAL REPORT

FOR CLASS A AND B WATER DISTRICTS AND WATER ASSOCIATIONS

TO BE COMPLETED AND RETURNED WITH THE ANNUAL REPORT

Page No.	Account No.		Page No.		Yes	No	If No, Explain Why
4-6	The identification pages have been completed				X		
7	101-106	agrees with	13	Total 101-106	X		
7	108-110	agrees with	15	Total 301-348 Cols c & h	X		
7	114-115	agrees with	16	Net Balance 114-115	X		
7	123	agrees with	17	Total 123	X		
7	124-125	agrees with	17	Total 124 and Total 125	X		
7	126	agrees with	17	Total 126	X		
7	127	agrees with	17	Total 127	X		
7	141-144	agrees with	18	Net Balance 141-144	X		
7	151-153	agrees with	19	Total 151-153	X		
7	162	agrees with	19	Total 162	X		
8	181	agrees with	20	Total 181	X		
8	182	agrees with	21	Total 182	X		
8	186	agrees with	20	Total 186	X		
9	214	agrees with	12	Total 214	X		
9	215.1	agrees with	12	Total 215.1	X		
9	215.2	agrees with	12	Total 215.2	X		
9	221	agrees with	23	Total Col 4	X		
9	221	agrees with	23	Total Col 12	X		
9	224	agrees with	22	Total Col f	X		
9	232	agrees with	24	Total 232	X		

CHECKLIST FOR THE ANNUAL REPORT

FOR CLASS A AND B WATER DISTRICTS AND WATER ASSOCIATIONS

TO BE COMPLETED AND RETURNED WITH THE ANNUAL REPORT

Page No.	Account No.		Page No.		Yes	No	If No, Explain Why
9	233	agrees with	24	Total 233	X		
9	234	agrees with	24	Total 234	X		
9	236	agrees with	25	Beginning and Ending Balance 236	X		
9	237	agrees with	25	Total 237 Cols b & e	X		
9	242	agrees with	26	Total 242	X		
9	251	agrees with	20	Total 251	X		
9	252	agrees with	21	Beginning and Ending Balance 252	X		
10	400	agrees with	27	Total Water Operating Revenue Col e	X		
10	401	agrees with	28	Total 601-675, Col c	X		
10	408.1 & 408.2	agrees with	25	Total Taxes Accrued 408.10-408.20	X		
11	427	agrees with	25	Total Interest Accrued Col c	X		
11	Net Income Before Contributions	agrees with	12	Balance Trans From Inc Col c	X		
13	101	agrees with	14	Total Water Plant Col f	X		
14	The analysis of water utility plant accounts Cols c through k has been completed				X		
15	The analysis of accumulated depreciation and amortization by primary account has been completed.				X		
20	186.1	agrees with	26	Total 186.1 Col c	X		
22	Schedule of Long-Term Debt has been completed				X		
23	Schedule of Bond Maturities has been completed				X		
27	Taxes collected (example: school tax, sales tax, franchise tax) have been excluded from Revenue and Expenses				X		
27	The analysis of water operating revenue Cols c, d, and e has been completed.				X		

CHECKLIST FOR THE ANNUAL REPORT

FOR CLASS A AND B WATER DISTRICTS AND WATER ASSOCIATIONS

TO BE COMPLETED AND RETURNED WITH THE ANNUAL REPORT

Page No.	Account No.		Page No.		Yes	No	If No, Explain Why
28	The analysis of water utility expense Cols c through k has been completed.				X		
29	Schedule of Pumping and Purchased Water Statistics has been completed.				X		
29	Total Col (d)	agrees with	30	Line 4, Total Produced and Purchased.	X		
29	Total Col (e)	agrees with	30	Line 13, Total Water Sales	X		
30	466 Total Gals	agrees with	30	Line 11, Sales For Resale (466)	X		
	Oath page has been completed.				X		

PUBLIC SERVICE COMMISSION OF KENTUCKY

PRINCIPAL PAYMENT AND INTEREST INFORMATION

FOR THE YEAR ENDING DECEMBER 31, 2005

1. Amount of Principal Payment during calendar year $ 4,674,000

2. Is Principal current? (Yes) X (No) _____

3. Is Interest current? (Yes) X (No) _____

SERVICES PERFORMED BY INDEPENDENT CERTIFIED PUBLIC ACCOUNTANT

Are your financial statements examined by a Certified Public Accountant?

YES X NO _____

If yes, which service is performed?

Audit X

Compilation _____

Review _____

Please enclose a copy of the accountant's report with annual report.

Additional Requested Information

Utility Name	Northern Kentucky Water District
Contact Person	Jack Bragg, Jr.
Contact Person's E-Mail Address	jbragg@nkywater.org
Utility's Web Address	www.nkywater.org

Additional Information Required by Commission Orders

Provide any special information required by prior commission orders, as well as any narrative explanations necessary to fully explain the data. Examples of the types of Special information that may be required by commission orders include surcharge amounts collected, refunds issued, and unusual debt repayments.

Case No.	Date of Order	Item/Explanation	
96-234	8/26/1996	Merger of Campbell Co. Water District and Kenton Co. Water District No. 1. Effective date of Merger 1/1/97.	
97-330	9/2/1997	Defeasance of the former Campbell Co. KY Water District Bonds. Principal of the Issue	9,630,000
92-482	3/14/1992	Subdistrict A	
		a. Number of Customers as of 12/31/2003	433
		b. Total surcharge billed during 2003	66,918
		c. Accumulated surcharge billed.	1,012,473
		d. Remaining Debt service on debt which NKWD issued to finance facilities.	789,265
94-409	1/26/1995	Subdistrict B	
		a. Number of Customers as of 12/31/2003	262
		b. Total surcharge billed during 2003	62,154
		c. Accumulated surcharge billed.	524,278
		d. Remaining Debt service on debt which NKWD issued to finance facilities.	1,706,371
95-582	2/8/1996	Subdistrict R	
		a. Number of Customers as of 12/31/2003	232
		b. Total surcharge billed during 2003	51,391
		c. Accumulated surcharge billed.	390,284
		d. Remaining Debt service on debt which NKWD issued to finance facilities.	1,091,016
95-582	2/8/1996	Subdistrict RL	
		a. Number of Customers as of 12/31/2003	86
		b. Total surcharge billed during 2003	38,695
		c. Accumulated surcharge billed.	313,969
		d. Remaining Debt service on debt which NKWD issued to finance facilities.	755,488

97-468	9/4/1998	Per itm 7 on the order. See attached exhibit ML 1	
2000-329	7/21/2000	Subdistrict C	
		a. Number of Customers as of 12/31/2003	845
		b. Total surcharge billed during 2003	232,169
		c. Accumulated surcharge billed.	768,790
		d. Remaining Debt service on debt which NKWD issued to finance facilities.	6,769,039
2000-171	5/5/2000	Subdistrict D	
		a. Number of Customers as of 12/31/2003	58
		b. Total surcharge billed during 2003	23,925
		c. Accumulated surcharge billed.	47,910
2001-198	6/27/2001	Defeasance of the former Kenton County Water District Bonds and Newport WW Purchase Principal of the Issue.	45,485,000
2002-00363	10/1/2002	Defeasance of the former Kenton County Water District Bonds. Principal of the Issue.	10,575,000
2002-00468	3/1/2003	Defeasance of 1995 C Bonds with Issuance of 2003 A Bonds	1,615,000
2002-00105	4/30/2003	Water Rate Increase	
2002-00105	6/1/2003	Issue of 2003 B Bonds	30,270,000
2003-00404	12/2/2003	Defeasance of 1993, 1995 A and 1995 B Bonds with the Issuance of 2003 C Bonds	23,790,000

Major Water Projects

Instructions: Provide details about each major water project which is planned but has not yet been submitted for approval to the Public Service Commission. For the limited purpose of this report a "Major Project" is defined as one which is not in the ordinary course of business, and which will increase your current utility plant by at least 20%.

Brief Project Description (improvement, replacement, building construction, expansion. If expansion, provide the estimated number of new customers):

N/A

Projected Costs and Funding Sources/Amounts:

Approval Status: (Application for financial assistance filed, but not approved; or application approved, but have not advertised for construction bids)

Location: (community, area or nearby roads)

TABLE OF CONTENTS

HISTORY

1. Exact name of utility making this report. (Use the words: "The, Company, Incorporated or Incorporated" only when a part of the corporate name.)

   Northern Kentucky Water District

2. Give location including city, street and number, of the executive office:
   2835 Crescent Springs Road
   P.O. Box 18640
   Erlanger, KY 41018

3. Give name, title, address, and telephone number of the officer to whom correspondence concerning this report should be addressed:

   Jack Bragg, Jr.
   P.O. Box 18640, Erlanger, Kentucky 41018

4. Date of organization: **January 1, 1997**

5. If a consolidated or merger company, name all contingent and all merged companies. Give reference to charters or general laws governing each and all amendments of same:

   N/A

6. Date and authority for each consolidation and each merger:

   N/A

7. State whether respondent is a corporation, a joint stock association, a firm or partnership or an individual:

   Non-profit water utility
   Special District – State of Kentucky

8. Name all other operating departments:

N/A

9. Name of counties in which you furnish water service:

Campbell County, Kenton County, Boone County
Wholesale: Pendleton County

Report of: Northern Kentucky Water District
For Year Ended: 2005
Location where books and records are located: 2835 Crescent Springs Road Erlanger, KY 41018

Contacts:

Name	Title	Principal Business Address	Salary Charged Utility	Current Term Expires
Send correspondence to: Jack Bragg, Jr.	V.P. Finance	2835 Crescent Springs Rd. P.O. Box 18640 Erlanger, KY 41018	xxxxx	xxxxx
Report prepared by: Jack Bragg, Jr.	V.P. Finance	Same as above	xxxxx	xxxxx
Officers and Managers				
Douglas Wagner	Chair	Same as above	6,000.00	8/26/2009
Andrew Collins	Treasurer	Same as above	6,000.00	8/28/2007
Joseph Koester	Secretary	Same as above	6,000.00	7/26/2008
Dr. Patricia Sommerkamp	Commissioner	Same as above	6,000.00	8/21/2009
Fred A. Macke, Jr.	Commissioner	Same as above	6,000.00	8/29/2008
Frank Jackson	Commissioner	Same as above	6,000.00	8/28/2007
C. Ronald Lovan	President/CEO	Same as above	xxxxx	xxxxx
All Commissioners have completed six hours of training.				

COMPARATIVE BALANCE SHEET - ASSETS AND OTHER DEBITS

Account No. (a)	Account Name (b)	Ref. Page ©	Previous Year (d)	Current Year (e)
	UTILITY PLANT			
101-106	Utility Plant	13	$ 251,475,930	$ 268,102,484
108-110	Less: Accumulated Depreciation and Amortization	13,15-16	(48,288,707)	(53,201,141)
	Net Plant		$ 203,187,223	$ 214,901,343
114-115	Utility Plant Acquisition Adjustments (Net)	16	4,469,711	4,268,591
116	Other Utility Plant Adjustments			
	Total Net Utility Plant		$ 207,656,934	$ 219,169,934
	OTHER PROPERTY & INVESTMENTS			
121	Nonutility Property		$	$
122	Less: Accumulated Depreciation and Amortization			
	Net Nonutility Property		$	$
123	Investment in Asso. Companies	17		
124	Utility Investments	17	21,535,260	21,911,383
125	Other Investments	17	3,680,638	3,783,211
126-127	Special Funds	17		
	Total Other Property & Investments		$ 25,215,898	$ 25,694,594
	CURRENT AND ACCRUED ASSETS			
131	Cash		$ 831,017	$ 3,909,589
132	Special Deposits			
133	Other Special Deposits		11,453,379	17,997,953
134	Working Funds			
135	Temporary Cash Investments			
141-144	Accounts Receivable, Less Accumulated Provision for Uncollectible Accounts	18	4,717,008	3,732,614
145	Accounts Receivable from Associated Companies			
146	Notes Receivable from Associated Companies			
151-153	Materials & Supplies	19	1,241,337	1,150,975
161	Stores Expense			
162	Prepayments	19	2,894,399	2,340,939
171	Accrued Interest & Dividends Receivable			
172	Rents Receivable			
173	Accrued Utility Revenues		4,900,000	4,900,000
174	Misc. Current & Accrued Assets			
	Total Current & Accrued Assets		$ 26,037,140	$ 34,032,070

COMPARATIVE BALANCE SHEET - ASSETS AND OTHER DEBITS (CONT'D)

Account No. (a)	Account Name (b)	Ref. Page c	Previous Year (d)	Current Year (e)
	DEFERRED DEBITS			
181	Unamortized Debt Discount & Expense	20	$ 3,045,263	$ 2,956,387
182	Extraordinary Property losses	21		
183	Preliminary Survey & Investagation Charges			
184	Clearing Accounts			
185	Temporary Facilities			
186	Misc. Deferred Debits	20	5,216,390	6,924,182
187	Research & Development Expenditures			
	Total Deferred Debits		$ 8,261,653	$ 9,880,569
	TOTAL ASSETS AND OTHER DEBITS		$ 267,365,378	$ 288,777,167

COMPARATIVE BALANCE SHEET - EQUITY CAPITAL AND LIABILITIES

Account No. (a)	Account Name (b)	Ref. Page c	Previous Year (d)	Current Year (e)
	Equity Capital			
214	Appropriated Retained Earnings	12	$ 31,029,357	$ 39,336,654
215.1	Retained Earnings from Income Before Contributions	12	$ 30,416,476	$ 25,534,918
215.2	Donated Capital	12	$ 40,195,514	$ 43,095,791
	Total Equity Capital		$ 101,641,347	$ 107,967,363
	LONG-TERM DEBT			
221	Bonds	23	$ 153,125,000	$ 148,701,000
222	Reacquired Bonds			
223	Advances from Asso. Companies			
224	Other Long-Term Debt	22	2,625,000	2,375,000
	Total Long-Term Debt		$ 155,750,000	$ 151,076,000
	CURRENT & ACCRUED LIABILITIES			
231	Accounts Payable		$ 1,799,189	$ 3,620,486
232	Notes Payable	24	3,705,000	21,685,000
233	Acts. Payable to Asso. Co.	24		
234	Notes Payable to Asso. Co.	24		
235	Customer Deposits		2,250	2,949
236	Accrued Taxes	25		
237	Accrued Interest	25	2,593,452	2,737,097
239	Matured Long-Term Debt			
240	Matured Interest			
241	Tax Collections Payable			
242	Misc. Current & Accrued Liabilities	26	1,810,263	1,629,323
	Total Current & Accrued Liabilities		$ 9,910,154	$ 29,674,855
	DEFERRED CREDITS			
251	Unamortized Premium on Debt	20	$ 63,877	$ 58,949
252	Advances for Construction	21		
253	Other Deferred Credits			
	Total Deferred Credits		63,877	58,949
	OPERATING RESERVES			
	Accumulated Provision for:			
261	Property Insurance		$	$
262	Injuries & Damages			
263	Pensions & Benefits			
265	Miscellaneous Operating Reserves			
	Total Operating Reserves		$	$
	TOTAL EQUITY CAPITAL & LIABILITIES		$ 267,365,378	$ 288,777,167

COMPARATIVE OPERATING STATEMENT

Acct. No. (a)	Account Name (b)	Ref. Page c	Previous Year (d)	Current Year (e)
	Utility Operating Income			
400	Operating Revenues	27	$ 32,185,250	$ 34,846,622
401	Operating Expenses	28	$ 19,429,652	$ 20,479,276
403	Depreciation Expenses		5,128,169	5,361,019
406	Amortization of Utility Plant Acquisition Adjustment		201,120	201,120
407	Amortization Expense		378,960	378,960
408.1	Taxes Other Than Income	25	519,707	544,011
	Utility Operating Expenses		$ 25,657,608	$ 26,964,386
	Utility Operating Income		$ 6,527,642	7,882,236
413	Income From Utility Plant Leased to Others			
414	Gains (Losses) From Disposition of Utility Property			(7,249)
	Total Utility Operating Income		$ 6,527,642	$ 7,874,987
	Other Income and Deductions			
415	Revenues From Merchandising, Jobbing and Contract Deductions		$	$
416	Costs and Expenses of Merchandising, Jobbing and Contract Work			
419	Interest & Dividend Income		791,405	1,862,615
420	Allowance for Funds Used During Construciton			
421	Nonutility Income		31,138	12,681
426	Miscellaneous Nonutility Expense			
	Total Other Income & Deductions		$ 822,543	1,875,296
	TAXES APPLICABLE TO OTHER INCOME			
408.2	Taxes Other Than Income		$	$
	Total Taxes Applic. To Other Income		$	$

COMPARATIVE OPERATING STATEMENT

Acct. No. (a)	Account Name (b)	Ref. Page c	Previous Year (d)	Current Year (e)
	Utility Operating Income			
400	Operating Revenues	27	$ 32,185,250	$ 34,846,623
401	Operating Expenses	28	$ 19,429,652	$ 20,479,098
403	Depreciation Expenses		5,128,169	5,361,019
406	Amortization of Utility Plant Acquisition Adjustment		201,120	201,120
407	Amortization Expense		378,960	378,960
408.1	Taxes Other Than Income	25	519,707	544,011
	Utility Operating Expenses		$ 25,657,608	$ 26,964,208
	Utility Operating Income		$ 6,527,642	7,882,415
413	Income From Utility Plant Leased to Others			
414	Gains (Losses) From Disposition of Utility Property		-	(7,249)
	Total Utility Operating Income		$ 6,527,642	$ 7,875,166
	Other Income and Deductions			
415	Revenues From Merchandising, Jobbing and Contract Deductions		$	$
416	Costs and Expenses of Merchandising, Jobbing and Contract Work			
419	Interest & Dividend Income		791,405	1,862,615
420	Allowance for Funds Used During Construction			
421	Nonutility Income		31,138	12,681
426	Miscellaneous Nonutility Expense			
	Total Other Income & Deductions		$ 822,543	1,875,296
	TAXES APPLICABLE TO OTHER INCOME			
408.2	Taxes Other Than Income		$	$
	Total Taxes Applic. To Other Income		$	$

+174 transportation

COMPARATIVE OPERATING STATEMENT - Continued

Account No. (a)	Account Name (b)	Ref. Page ©	Previous Year (d)	Current Year (e)
	INTEREST EXPENSE			
427	Interest Expense		$ 5,344,406	$ 6,126,890
428	Amortization of Debt Discount & Exp.		150,663	202,582
429	Amortization of Premium on Debt		4,928	4,928
	Total Interest Expense		$ 5,490,141	$ 6,324,544
	EXTRAORDINARY ITEMS			
433	Extraordinary Income		$	$
434	Extraordinary Deductions			
	Total Extraordinarly Items		$ -	$ -
	NET INCOME		$ 1,860,044	$ 3,425,739

Statement of Retained Earnings

ACCT. No. (a)	(b)	Amount (c)
214	Appropriated Retained Earnings (state balance and purpose of each appropriated amount at year end):	
	Bond Proceeds	$ 17,242,047
	Debt Service and Reserve	$ 19,020,505
	Improvement, Repair and Replacement	$ 3,074,102
	Total Appropriated Retained Earnings.....	$ 39,336,654

215.1	Retained Earnings From Income Before Contributions:	
	Balance Beginning of Year.....	$ 30,416,472
435	Balance Transferred from Net Income Before Contributions.....	$ 3,425,739
	Other Changes to Account:	
436	Appropriations of Retained Earnings.....	$ (8,307,293)
439	Adjustments to Retained Earnings (requires Commission approval prior to use):	
	Credits (explain)	$
	Debits (explain)	$
	Balance End of Year.....	$ 25,534,918

		Tapping Fees	Grants	Other	Total
215.2	Donated Capital:				
	Balance Beginning of Year.....	4,735,018	5,759,358	29,701,138	40,195,514
	Credits:				
432	Proceeds from capital contributions.....	1,007,222	374,015	1,519,040	2,900,277
	Other Credits (explain)				
	Debits: (explain - Requires Commission Approval)				
	Balance End of Year.....	5,742,240	6,133,373	31,220,178	43,095,791

NET UTILITY PLANT (ACCTS. 101 - 106)

Account No.	Plant Accounts	Total
101	Utility Plant in Service	$ 248,118,189
102	Utility Plant Leased to Others	
103	Property Held for Future Use	
104	Utility Plant Purchased of Sold	
105	Construction Work in Progress	19,984,295
106	Completed Construction Not Classified	
	Total Utility Plant	$ 268,102,484

ACCUMULATED DEPRECIATION (ACCT. 108)

Description	Total
Balance first of year	$ 48,288,707
Credit during year:	
Accruals Charged to Account 108.1	5,361,019
Accruals Charged to Account 108.2	
Accruals Charged to Account 108.3	
Accruals Charged to Other Accounts (specify)	
Salvage	
Other Credits (specify)	
Total Credits	$ 5,361,019
Debits during year:	
Book Cost of Plant Retired	$ 448,585
Cost of Removal	
Other Debits (specify)	
Total Debits	$ 448,585
Balance end of year	$ 53,201,141

Water Utility Plant Accounts

Acct. No. Acct.	Account Name b	Previous Year Year c	Additions d	Retirement e	Current Year f	Intangible Plant g	Source of Supply & Pumping h	WT Plant i	Trans. & Distribu Plant J	General Plant K
301	Organization	$								
302	Franchises									
303	Land and Land Rights	605,416	-	-	605,416		29,200	72,496	205,403	298,317
304	Structure & Improvements	65,516,438	202,104		65,718,542		16,869,144	35,671,419	7,661,242	5,516,737
305	Collecting & Impounding Reservoirs									
306	Lake River & Other Intakes	1,524,592			1,524,592		1,524,592			
307	Wells & Springs									
308	Infiltration on Galleries & Tunnels									
309	Supply Mains	2,307,853			2,307,853		2,307,853			
310	Power Generation Equipment									
311	Pumping Equipment	8,661,832	19,805	4,666	8,676,971		2,496,219	833,197	5,347,555	
320	Water Treatment Equipment	9,285,428	181,449	750	9,466,127			9,466,127		
330	Distribululion Reservoirs & Standpipes	7,500,741			7,500,741				7,500,741	
331	Transmission & Distributuion Mains	-			-					
		106,184,511	4,360,534	418,823	110,126,222				110,126,222	
333	Services	18,787,274	868,458		19,655,732				19,655,732	
334	Meters & Meter Installation	6,537,668	542,601		7,080,269				7,080,269	
335	Hydrants	4,550,842	458,146		5,008,988				5,008,988	
339	Other Plant & Misc. Equipment	3,374,076	12,708	1,683	3,385,101					3,385,101
340	Office Furniture & Equipment	2,352,529	187,553	18,954	2,521,128					2,521,128
341	Transportation Equipment	2,512,074	249,256	157,485	2,603,845					2,603,845
342	Stores Equipment									
343	Tools, Shop & Garage Equip.	284,376	-		284,376					284,376
344	Laboratory Equipment	-	60,600	-	60,600					60,600
345	Power Operated Equipment	542,549	158,059		700,608					700,608
346	Communication Equipment									
347	Miscellaneous Equipment									
348	Other Tangible Plant	891,078			891,078					891,078
	Total Water Plant	241,419,277	7,301,272	602,361	248,118,189	-	23,227,008	46,043,239	162,586,152	16,261,790

Analysis of Accumulated Depreciation and Amortization by Primary Account

Acct. No. (a)	Account (b)	Balance Beginning of Year c	Credits During the Year: Charges to Dep. Exp. (d)	Credits During the Year: Other Credits (e)	Charges During The Year: Plant Retirements (f)	Charges During The Year: Other Charges (g)	Balance End of Year (h)
301	Organization	$	$	$	$	$	$
302	Franchises						
303	Limited Term Interest in Land and Land Rights						
304	Structures & Improvements	11,350,180	1,636,856		64		12,986,973
305	Collecting & Impounding Reservoirs						
306	Lake River & Other Intakes	601,663	77,488				679,151
307	Wells & Srpings						
309	Supply Mains	339,414	23,312				362,726
310	Power Generating Equip.						
311	Pumping Equipment	3,408,410	378,605		1,711		3,785,305
320	Water Treatment Equip.	2,717,676	401,104		750		3,118,030
330	Distribution Reservoirs & Standpipes	2,542,407	133,754				2,676,161
331	Transmissions & Distribution Mains	12,557,965	1,178,856		272,235		13,464,586
333	Services	5,832,871	402,138				6,235,009
334	Meters & Meter Installations	1,490,420	163,288				1,653,708
335	Hydrants	1,193,249	95,598				1,288,847
339	Other Plant & Misc. Equip.	1,143,633	327,355		1,666		1,469,322
340	Office Furniture & Equip.	1,756,251	242,311		14,676		1,983,886
341	Transportation Equip.	1,833,191	228,190		157,485		1,903,896
342	Service Equipment	-					
343	Tools, Shop & Garage Equip.	273,713	3,348				277,061
344	Shop Equipment	-					
345	Power Operated Equip.	398,481	50,127				448,608
346	Telecommunication Equipment						
347	Scada						
348	Other Tangible Plant	849,183	18,691				867,874
	Totals	$ 48,288,707	$ 5,361,019	$ -	$ 448,585	$ -	$ 53,201,141

ACCUMULATED AMORTIZATION (ACCT. 110)

Description	Total
Balance first of year	$ N/A
Credit during year:	
Accruals Charged to Account 110.1	$
Accruals Charged to Account 110.2	
Other Accruals (specify)	
Total Credits	$
Debits during year:	
Book Cost of Plant Retired	$
Other Debits (specify)	
Total Debits	$
Balance end of year	$

UTILITY PLANT ACQUISITION ADJUSTMENT (ACCTS. 114 - 115)

Report each acquisition adjustment and related accumulated amortization separately.
For any acquisition adjustment approved by the Commission, include the Order Number.

ACCOUNT NAME	TOTAL
Acquisition Adjustments (114)	
Original District 9-14-55	$ 263,366
District # 2 & 3 12-31-73	18,712
Mentor District 9-1-76	10,741
City of Cold Spring	228,253
City of Silver Grove	24,853
Newport Water Works	4,970,211
Total Plant Acquisition Adjustments	$ 5,516,136
Accumulated Amortization (115)	
Original District 9-14-55	$ 263,366
District # 2 & 3 12-31-73	18,712
Mentor District 9-1-76	10,741
City of Cold Spring	228,253
City of Silver Grove	24,853
Newport Water Works	701,620
Total Accumulated Amortization	$ 1,247,545
Net Acquisition Adjustments	$ 4,268,591

Investments and Special Funds (Acct. 123-127)

Report hereunder all investments and special funds carried in Account 123-127.

Description of Security or Special Fund (a)	Face or Par Value (b)	Year-End Book Cost c
Investment In Associated Companies (Acct. 123):	$	$
Total Investment in Asso. Companies		$
Utility Investments (Acct. 124):		
IRR Account	$	$ 3,074,102
Debt Service Account		6,547,631
Debt Service Reserve Account		12,289,650
Total Utility Investments		$ 21,911,383
Other Investments (Acct. 125):		
Boone County/Florence KY Settlement	$	$ 3,783,211
Total Other Investments:	$	$ 3,783,211
Special Funds (Acct. 126 & 127):		
Prepayment Reserve		
Total Special Funds		$ -

ACCOUNTS AND NOTES RECEIVABLE - NET (ACCOUNTS 141 - 144)

Report hereunder all accounts and notes receivable included in Accounts 141,142,and 144. Amounts included in Accounts 142 and 144 should be listed individually.

Description		Total
ACCOUNTS & NOTES RECEIVABLE:		
Customer Accounts Receivable (Acct. 141)		$ 3,681,014
Other Accounts Receivable (Acct. 142)		
Assessments	$ 37,767	
Other	13,832	
		51,600
Notes Receivable (Acct. 144)		
	$	
Total Accounts and Notes Receivable		$ 3,732,614
Accumulated Provision for Uncollectable Accounts (Acct. 143)		
Balance first of year	$ -	
Add: Provision for uncollectables for current year	$	
Collections fo accounts previously written off		
Utility accounts		
Others		
Total Additions	$	
Deduct accounts written off during year:		
Utility Accounts	$	
Other		
Total accounts written off	$	
Balance end of year		$ -
Total Accounts and Notes Receivable		$ 3,732,614

Materials and Supplies (151 - 153)

Account Name	Total
Plant Materials and Supplies (Account 151)	$ 1,150,975
Merchandise (Account 152)	
Other Materials and Supplies (Account 153)	
Total Materials & Supplies	$ 1,150,975

Prepayments (Acct. 162)

Description	Total
Prepaid Insurance	$ 134,674
Prepaid Rents	
Prepaid Interest	
Prepaid Taxes	
Other Prepayments (Specify)	
Expenses/Services	$ 110,375
Water Tower Painting	2,095,890
Total Prepayments	$ 2,340,939

Miscellaneous Deferred Debits (Acct. 186)

Description	Total
Miscellaneous Deferred Debits (Acct. 186):	
Deferred Rate Case Expense 2003-2004	211,582.69
Deferred Rate Case Expense 2004-2006	26,874.69
Other Deferred Debits	6,685,725
Total Miscellaneous Deferred Debits	$ 6,924,182.10

Unamortized Debt Discount & Expense & Premium on Debt (Accts. 181 & 251)

Report the net discount & expense or premium separately for each security issue.

Description	Amount Written Off During Year	Year-End Balance
Unamortized Debt Discount & Expense (Acct. 181)		
Bond Issue Cost 1997	$ 4,916	$ 82,748
Bond Discount 1997	6,735	113,373
Bond Discount 1998	7,570	173,479
Bond Issue Costs 1998	3,147	72,137
Cost of Issue 2001 Bond	3,699	77,084
Discount 2001 Bond	13,038	271,636
Cost of Issue 2002 A	13,731	289,495
Bond Discount 2002 A	27,209	573,657
Cost of Issue 2002 B	9,300	111,214
Cost of Issue 2003 A	1,620	40,790
Bond Discount 2003 A	1,087	28,366
Cost of Issue 2003 B	11,760	262,670
Bond Discount 2003 B	8,520	190,993
Cost of Issue 2003 C	14,940	217,833
Discount 2003 C	7,404	104,297
Cost of issue 2004A BAN	11,004	2,743
Discount 2004A BAN	7,824	1,954
Cost of issue 2004A Bonds	3,252	77,456
Discount 2004A Bond	7,920	188,662
Cost of issue 2005A BAN	14,648	29,294
Discount 2005 BAN	23,256	46,506
Total Unamortized Debt Discount & Expense	$ **202,580**	$ **2,956,387**
Unamortized Premium on Debt (Acct. 251):		$
Premium on 2002 B Bond	63,877	58,949
Total Unamortized Premium on Debt	$ 63,877	$ 58,949

Miscellaneous Deferred Debits (Acct. 186)

Description	Total
Miscellaneous Deferred Debits (Acct. 186):	
Deferred Rate Case Expense 2002-2003	$ 72,543
Deferred Rate Case Expense 2003-2004	103,450
Deferred Rate Case Expense 2004-2006	211,583
Other Deferred Debits	6,536,606
Total Miscellaneous Deferred Debits	$ 6,924,182

Unamortized Debt Discount & Expense & Premium on Debt (Accts. 181 & 251)

Report the net discount & expense or premium separately for each security issue.

Description	Amount Written Off During Year	Year-End Balance
Unamortized Debt Discount & Expense (Acct. 181)		
Bond Issue Cost 1997	$ 4,916	$ 82,748
Bond Discount 1997	6,735	113,373
Bond Discount 1998	7,570	173,479
Bond Issue Costs 1998	3,147	72,137
Cost of Issue 2001 Bond	3,699	77,084
Discount 2001 Bond	13,038	271,636
Cost of Issue 2002 A	13,731	289,495
Bond Discount 2002 A	27,209	573,657
Cost of Issue 2002 B	9,300	111,214
Cost of Issue 2003 A	1,620	40,790
Bond Discount 2003 A	1,087	28,366
Cost of Issue 2003 B	11,760	262,670
Bond Discount 2003 B	8,520	190,993
Cost of Issue 2003 C	14,940	217,833
Discount 2003 C	7,404	104,297
Cost of issue 2004A BAN	11,004	2,743
Discount 2004A BAN	7,824	1,954
Cost of issue 2004A Bonds	3,252	77,456
Discount 2004A Bond	7,920	188,662
Cost of issue 2005A BAN	14,648	29,294
Discount 2005 BAN	23,256	46,506
Total Unamortized Debt Discount & Expense	$ **202,580**	$ 2,956,387
Unamortized Premium on Debt (Acct. 251):		$
Premium on 2002 B Bond	63,877	58,949
Total Unamortized Premium on Debt	$ 63,877	$ 58,949

EXTRAORDINARY PROPERTY LOSSES (ACCT. 182)

Report each item separately.

Description	Total
Extraordinary Property Losses (Acct. 182) :	
N/A	$
	$
	$
	$
Total Extraordinary Property Losses	$

ADVANCES FOR CONSTRUCTION (ACCT. 252)

DESCRIPTION N/A	TOTAL
Balance first of year.....	$
Add credits during year.....	$
Deduct charges during year.....	$
Balance end of year.....	$

LONG TERM DEBT (ACCT. 224)

Description of Obligation and Amount of Original Issue (a)	Date of Issue (b)	Date of Maturity (c)	Interest Expense for Year		Principal Per Balance Sheet Date (f)
			Rate (d)	Amount (e)	
Notes Payable Taylor Mill	Mar-04	7/1/2018	0		2,375,000
Total long term Debt				-	2,375,000

Attachment 22A

Northern Kentucky Water Service District

Bond Issue: 11,225,000 Dated September 1, 1997

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	1998	4.700%	210,000.00	210,000.00	
Registered	1999	4.700%	580,000.00	580,000.00	
Registered	2000	4.700%	610,000.00	610,000.00	
Registered	2001	4.700%	640,000.00	640,000.00	
Registered	2002	4.700%	670,000.00	670,000.00	
Registered	2003	4.700%	700,000.00	700,000.00	
Registered	2004	4.700%	735,000.00	735,000.00	
Registered	2005	4.700%	770,000.00	770,000.00	
Registered	2006	4.700%	810,000.00		810,000.00
Registered	2007	4.700%	850,000.00		850,000.00
Registered	2008	4.750%	890,000.00		890,000.00
Registered	2009	4.750%	930,000.00		930,000.00
Registered	2010	4.750%	975,000.00		975,000.00
Registered	2011	4.750%	1,025,000.00		1,025,000.00
Registered	2012	4.750%	60,000.00		60,000.00
Registered	2013	4.750%	60,000.00		60,000.00
Registered	2014	4.750%	65,000.00		65,000.00
Registered	2015	4.750%	70,000.00		70,000.00
Registered	2016	4.750%	70,000.00		70,000.00
Registered	2017	4.750%	75,000.00		75,000.00
Registered	2018	4.750%	80,000.00		80,000.00
Registered	2019	4.750%	80,000.00		80,000.00
Registered	2020	4.750%	85,000.00		85,000.00
Registered	2021	4.750%	90,000.00		90,000.00
Registered	2022	4.750%	95,000.00		95,000.00
TOTALS			11,225,000.00	4,915,000.00	6,310,000.00

Attachment 22-B

Northern Kentucky Water Service District

Bond Issue: 11,355,000 Dated December 1, 1998

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	02/01/1999	4.700%	250,000.00	250,000.00	
Registered	02/01/2000	4.700%	200,000.00	200,000.00	
Registered	02/01/2001	4.700%	200,000.00	200,000.00	
Registered	02/01/2002	4.700%	210,000.00	210,000.00	
Registered	02/01/2003	4.700%	220,000.00	220,000.00	
Registered	02/01/2004	4.700%	230,000.00	230,000.00	
Registered	02/01/2005	4.700%	240,000.00	240,000.00	
Registered	02/01/2006	4.700%	255,000.00		255,000.00
Registered	02/01/2007	4.700%	265,000.00		265,000.00
Registered	02/01/2008	4.750%	280,000.00		280,000.00
Registered	02/01/2009	4.750%	280,000.00		280,000.00
Registered	02/01/2010	4.750%	295,000.00		295,000.00
Registered	02/01/2011	4.750%	310,000.00		310,000.00
Registered	02/01/2012	4.750%	325,000.00		325,000.00
Registered	02/01/2013	4.800%	340,000.00		340,000.00
Registered	02/01/2014	4.850%	360,000.00		360,000.00
Registered	02/01/2015	4.875%	375,000.00		375,000.00
Registered	02/01/2016	4.875%	395,000.00		395,000.00
Registered	02/01/2017	4.875%	415,000.00		415,000.00
Registered	02/01/2018	4.875%	435,000.00		435,000.00
Registered	02/01/2019	4.875%	455,000.00		455,000.00
Registered	02/01/2020	4.875%	480,000.00		480,000.00
Registered	02/01/2021	4.875%	505,000.00		505,000.00
Registered	02/01/2022	4.875%	530,000.00		530,000.00
Registered	02/01/2023	4.875%	555,000.00		555,000.00
Registered	02/01/2024	4.875%	585,000.00		585,000.00
Registered	02/01/2025	4.875%	610,000.00		610,000.00
Registered	02/01/2026	4.875%	645,000.00		645,000.00
Registered	02/01/2027	4.875%	675,000.00		675,000.00
Registered	02/01/2028	4.875%	435,000.00		435,000.00
TOTALS			11,355,000.00	1,550,000.00	9,805,000.00

Attachment 22-C

Northern Kentucky Water Service District

FHMA Load 2,287,000 2000

Year	Maturity Date	Interest Rate	Principle Amount	Principle Paid	Outstanding
2000			0.00	0.00	
2001			0.00	0.00	
2002			21,000.00	21,000.00	
2003			22,000.00	22,000.00	
2004			24,000.00	24,000.00	
2005			24,000.00	24,000.00	
2006			26,000.00		26,000.00
2007			27,000.00		27,000.00
2008			28,000.00		28,000.00
2009			30,000.00		30,000.00
2010			31,000.00		31,000.00
2011			33,000.00		33,000.00
2012			34,000.00		34,000.00
2013			36,000.00		36,000.00
2014			38,000.00		38,000.00
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	0.00	0.00	2,287,000.00	91,000.00	2,196,000.00

Attachment 22-D

Northern Kentucky Water Service District

Bond Issue $16,325,000.00 Dated 10-23-2001

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2002	2.700%	285,000.00	285,000.00	
Registered	2/1/2003	3.000%	235,000.00	235,000.00	
Registered	2/1/2004	3.250%	240,000.00	240,000.00	
Registered	2/1/2005	3.450%	230,000.00	230,000.00	
Registered	2/1/2006	3.600%	215,000.00		215,000.00
Registered	2/1/2007	3.750%	195,000.00		195,000.00
Registered	2/1/2008	3.900%	170,000.00		170,000.00
Registered	2/1/2009	4.000%	155,000.00		155,000.00
Registered	2/1/2010	4.100%	75,000.00		75,000.00
Registered	2/1/2011	4.200%	80,000.00		80,000.00
Registered	2/1/2012	4.350%	80,000.00		80,000.00
Registered	2/1/2013	4.450%	735,000.00		735,000.00
Registered	2/1/2014	4.550%	770,000.00		770,000.00
Registered	2/1/2015	4.670%	810,000.00		810,000.00
Registered	2/1/2016	4.750%	845,000.00		845,000.00
Registered	2/1/2017	4.820%	890,000.00		890,000.00
Registered	2/1/2018	4.850%	930,000.00		930,000.00
Registered	2/1/2019	4.900%	980,000.00		980,000.00
Registered	2/1/2020	4.950%	1,030,000.00		1,030,000.00
Registered	2/1/2021	5.000%	1,080,000.00		1,080,000.00
Registered	2/1/2022	5.000%	1,135,000.00		1,135,000.00
Registered	2/1/2023	5.000%	1,195,000.00		1,195,000.00
Registered	2/1/2024	5.100%	1,255,000.00		1,255,000.00
Registered	2/1/2025	5.100%	1,320,000.00		1,320,000.00
Registered	2/1/2026	5.100%	1,390,000.00		1,390,000.00
TOTALS			16,325,000.00	990,000.00	15,335,000.00

Attachment 22-E

Northern Kentucky Water Service District

Bond Issue $45,485,000.00 Dated 2/1/2002

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2003				
Registered	2/1/2003	4.50%	350,000.00	350,000.00	
Registered	2/1/2004	4.50%	345,000.00	345,000.00	
Registered	2/1/2005	4.50%	360,000.00	360,000.00	
Registered	2/1/2006	4.50%	370,000.00		370,000.00
Registered	2/1/2007	4.50%	380,000.00		380,000.00
Registered	2/1/2008	4.50%	410,000.00		410,000.00
Registered	2/1/2009	4.50%	365,000.00		365,000.00
Registered	2/1/2010	4.50%	465,000.00		465,000.00
Registered	2/1/2111	4.50%	485,000.00		485,000.00
Registered	2/1/2012	4.50%	1,530,000.00		1,530,000.00
Registered	2/1/2013	4.50%	950,000.00		950,000.00
Registered	2/1/2114	4.50%	990,000.00		990,000.00
Registered	2/1/2115	4.65%	1,035,000.00		1,035,000.00
Registered	2/1/2116	4.75%	1,100,000.00		1,100,000.00
Registered	2/1/2117	4.75%	1,625,000.00		1,625,000.00
Registered	2/1/2118	4.75%	2,520,000.00		2,520,000.00
Registered	2/1/2119	4.75%	2,640,000.00		2,640,000.00
Registered	2/1/2020	5.00%	3,080,000.00		3,080,000.00
Registered	2/1/2021	5.00%	3,240,000.00		3,240,000.00
Registered	2/1/2022	5.00%	3,405,000.00		3,405,000.00
Registered	2/1/2023	5.00%	3,580,000.00		3,580,000.00
Registered	2/1/2024	5.00%	3,765,000.00		3,765,000.00
Registered	2/1/2025	5.00%	3,960,000.00		3,960,000.00
Registered	2/1/2026	5.00%	4,160,000.00		4,160,000.00
Registered	2/1/2027	5.00%	4,375,000.00		4,375,000.00
TOTALS			45,485,000.00	1,055,000.00	44,430,000.00

Attachment 22-F

Northern Kentucky Water Service District

Bond Issue $10,575,000.00 Dated 12/5/2002

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	12/5/2002				
Registered	2/1/2003	3.00%	535,000.00	535,000.00	
Registered	2/1/2004	3.00%	455,000.00	455,000.00	
Registered	2/1/2005	3.00%	490,000.00	490,000.00	
Registered	2/1/2006	3.00%	530,000.00		530,000.00
Registered	2/1/2007	3.50%	580,000.00		580,000.00
Registered	2/1/2008	3.50%	625,000.00		625,000.00
Registered	2/1/2009	3.50%	745,000.00		745,000.00
Registered	2/1/2010	3.75%	775,000.00		775,000.00
Registered	2/1/2111	4.00%	805,000.00		805,000.00
Registered	2/1/2012	4.00%	835,000.00		835,000.00
Registered	2/1/2013	4.00%	870,000.00		870,000.00
Registered	2/1/2114	4.00%	900,000.00		900,000.00
Registered	2/1/2115	4.00%	930,000.00		930,000.00
Registered	2/1/2116	4.00%	965,000.00		965,000.00
Registered	2/1/2117	4.00%	535,000.00		535,000.00
TOTALS			10,575,000.00	1,480,000.00	9,095,000.00

Attachment 22-G

Northern Kentucky Water Service District
2003 Series A
Bond Issue $1,615,000.00 Dated 3/13/03

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2004	1.20%	35,000.00	35,000.00	
Registered	2/1/2005	1.38%	35,000.00	35,000.00	
Registered	2/1/2006	1.75%	35,000.00		35,000.00
Registered	2/1/2007	2.20%	35,000.00		35,000.00
Registered	2/1/2008	2.60%	35,000.00		35,000.00
Registered	2/1/2009	3.00%	40,000.00		40,000.00
Registered	2/1/2010	3.30%	40,000.00		40,000.00
Registered	2/1/2011	3.55%	40,000.00		40,000.00
Registered	2/1/2012	3.70%	40,000.00		40,000.00
Registered	2/1/2113	3.85%	45,000.00		45,000.00
Registered	2/1/2014	3.95%	45,000.00		45,000.00
Registered	2/1/2015	4.05%	45,000.00		45,000.00
Registered	2/1/2116	4.15%	50,000.00		50,000.00
Registered	2/1/2117	4.25%	50,000.00		50,000.00
Registered	2/1/2118	4.50%	55,000.00		55,000.00
Registered	2/1/2119	4.50%	55,000.00		55,000.00
Registered	2/1/2020	4.50%	60,000.00		60,000.00
Registered	2/1/2121	4.50%	60,000.00		60,000.00
Registered	2/1/2022	4.50%	65,000.00		65,000.00
Registered	2/1/2023	4.55%	65,000.00		65,000.00
Registered	2/1/2024	4.55%	70,000.00		70,000.00
Registered	2/1/2025	4.55%	75,000.00		75,000.00
Registered	2/1/2026	4.55%	75,000.00		75,000.00
Registered	2/1/2027	4.55%	80,000.00		80,000.00
Registered	2/1/2028	4.60%	85,000.00		85,000.00
Registered	2/1/2029	4.60%	85,000.00		85,000.00
Registered	2/1/2030	4.60%	90,000.00		90,000.00
Registered	2/1/2031	4.60%	95,000.00		95,000.00
Registered	2/1/2032	4.60%	30,000.00		30,000.00
TOTALS			1,615,000.00	70,000.00	1,545,000.00

Attachment 22-H

Northern Kentucky Water Service District
2003 Series B
Bond Issue $30,270,000.00 Dated 8/1/2003

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2004	0.02	825,000.00	825,000.00	
Registered	2/1/2005	2.00%	845,000.00	845,000.00	
Registered	2/1/2006	2.00%	860,000.00		860,000.00
Registered	2/1/2007	2.00%	880,000.00		880,000.00
Registered	2/1/2008	2.00%	895,000.00		895,000.00
Registered	2/1/2004	2.25%	915,000.00		915,000.00
Registered	2/1/2010	2.75%	940,000.00		940,000.00
Registered	2/1/2011	3.00%	965,000.00		965,000.00
Registered	2/1/2012	3.13%	995,000.00		995,000.00
Registered	2/1/2013	3.13%	1,030,000.00		1,030,000.00
Registered	2/1/2014	3.13%	1,060,000.00		1,060,000.00
Registered	2/1/2015	3.25%	1,095,000.00		1,095,000.00
Registered	2/1/2016	3.50%	1,135,000.00		1,135,000.00
Registered	2/1/2017	4.00%	1,175,000.00		1,175,000.00
Registered	2/1/2018	4.00%	1,225,000.00		1,225,000.00
Registered	2/1/2019	4.00%	1,275,000.00		1,275,000.00
Registered	2/1/2020	4.13%	1,325,000.00		1,325,000.00
Registered	2/1/2021	4.13%	1,380,000.00		1,380,000.00
Registered	2/1/2022	1.43%	1,440,000.00		1,440,000.00
Registered	2/1/2023	4.13%	1,500,000.00		1,500,000.00
Registered	2/1/2024	4.13%	1,565,000.00		1,565,000.00
Registered	2/1/2025	4.13%	1,630,000.00		1,630,000.00
Registered	2/1/2026	4.13%	1,700,000.00		1,700,000.00
Registered	2/1/2027	4.13%	1,770,000.00		1,770,000.00
Registered	2/1/2028	4.13%	1,845,000.00		1,845,000.00
TOTALS			30,270,000.00	1,670,000.00	28,600,000.00

Attachment 22-I

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

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2004	2.00%	1,430,000.00	1,430,000.00	
Registered	2/1/2005	2.00%	1,160,000.00	1,160,000.00	
Registered	2/1/2006	2.00%	1,180,000.00		1,180,000.00
Registered	2/1/2007	2.25%	1,215,000.00		1,215,000.00
Registered	2/1/2008	2.50%	1,235,000.00		1,235,000.00
Registered	2/1/2009	2.75%	1,270,000.00		1,270,000.00
Registered	2/1/2010	3.00%	1,305,000.00		1,305,000.00
Registered	2/1/2111	3.25%	1,350,000.00		1,350,000.00
Registered	2/1/2012	3.50%	1,395,000.00		1,395,000.00
Registered	2/1/2013	3.50%	1,445,000.00		1,445,000.00
Registered	2/1/2114	4.00%	1,505,000.00		1,505,000.00
Registered	2/1/2115	4.00%	1,565,000.00		1,565,000.00
Registered	2/1/2116	4.00%	1,625,000.00		1,625,000.00
Registered	2/1/2117	4.00%	1,690,000.00		1,690,000.00
Registered	2/1/2118	4.00%	1,595,000.00		1,595,000.00
Registered	2/1/2119	4.13%	1,665,000.00		1,665,000.00
Registered	2/1/2020	4.25%	1,160,000.00		1,160,000.00
TOTALS			23,790,000.00	2,590,000.00	21,200,000.00

Northern Kentucky Water Service District

Attachment 22-J

Bond Issue Dated 2/1/2002

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2005		270,000.00	270,000.00	
Registered	2/1/2006		275,000.00		275,000.00
Registered	2/1/2007		285,000.00		285,000.00
Registered	2/1/2008		290,000.00		290,000.00
Registered	2/1/2009		295,000.00		295,000.00
Registered	2/1/2010		305,000.00		305,000.00
Registered	2/1/2111		315,000.00		315,000.00
Registered	2/1/2012		325,000.00		325,000.00
Registered	2/1/2013		335,000.00		335,000.00
Registered	2/1/2114		345,000.00		345,000.00
Registered	2/1/2115		360,000.00		360,000.00
Registered	2/1/2116		375,000.00		375,000.00
Registered	2/1/2117		390,000.00		390,000.00
Registered	2/1/2118		405,000.00		405,000.00
Registered	2/1/2119		425,000.00		425,000.00
Registered	2/1/2020		460,000.00		460,000.00
Registered	2/1/2021		485,000.00		485,000.00
Registered	2/1/2022		505,000.00		505,000.00
Registered	2/1/2023		530,000.00		530,000.00
Registered	2/1/2024		555,000.00		555,000.00
Registered	2/1/2025		580,000.00		580,000.00
Registered	2/1/2026		605,000.00		605,000.00
Registered	2/1/2027		635,000.00		635,000.00
Registered	2/1/2028		665,000.00		665,000.00
TOTALS			10,015,000.00	270,000.00	9,745,000.00

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		6,310,000	301,911	316,990
2	11,355,000	11,141,619		9,805,000	476,086	480,836
3	2,287,000	2,287,000		2,196,000	110,200	110,400
4	16,325,000	15,835,250		15,335,000	729,746	733,100
5	48,485,000	44,121,624		44,430,000	2,169,790	2,176,540
6	10,575,000	10,525,204		9,095,000	350,581	356,706
7	1,615,000	1,583,553		1,545,000	64,878	65,078
8	30,270,000	30,068,115		28,600,000	1,032,108	139,150
9	23,790,000	23,532,357		21,200,000	738,277	747,944
10	10,455,000	10,195,116		10,185,000	403,081	303,323
Total	166,382,000	160,421,532	36,332,688	148,701,000	6,376,659	5,430,067

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 22-A Through 22-I				
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

Notes Payable (Acct. 232 & 234)

a	Nominal Date of Issue b	Date of Maturity c	INTEREST Rate d	INTEREST Amount of payment e	Principal Amount per Balance Sheet f
Account 232 - Note Payable					
Kenton Co. Fiscal Court				$	$ 100,000
BAN 2004A	Apr-04	2006	1.70%	61,285.00	3,605,000
BAN 2005A	May-05	2007		876,920.00	17,980,000
Total Account 232				$	$ 21,685,000
Account 234 - Notes Payable To Associated Companies		N/A		$	$
Total Account 234				$	$

Accounts Payable to Associated Companies (Acct. 233)

Show Payable to Each Associated Company Separately	Amount
	$
N/A	
Total	$

TAXES ACCRUED (ACCOUNT 236)

ACCT. NO. (a)	DESCRIPTION (b)	TOTAL ©
	Balance first of year	$ -
	Accruals Charged:	
408.1	Utility regulatory assessment fees	
408.11	Property taxes	
408.12	Payroll taxes	544,011
408.13	Other taxes and licenses	
408.2	Taxes other than income, other income and deductions	
	Total taxes accrued	$ 544,011
	Taxes paid during year:	
408.1	Utility regulatory assessment fees	
408.11	Property taxes	
408.12	Payroll taxes	544,011
408.13	Other taxes and licenses	
408.2	Taxes other than income, other income and deductions	
	Total taxes paid	$ 544,011
	Balance end of year	$ -

ACCRUED INTEREST (ACCOUNT 237)

DESC. DEBT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR (c)	INTEREST PAID DURING YEAR (d)	BALANCE END OF YEAR (e)
Acct. No. 237.1 - Accured Interest on Long-term Debt				
Series 1997	139,619	301,911	316,990	124,540
Series 1998	202,724	476,086	480,836	197,973
2000 RUS Loan	18,500	110,200	110,400	18,300
Series 2001	307,135	729,746	733,100	303,781
Series 2002 A	910,268	2,169,789	2,176,540	903,517
Series 2002 B	151,689	350,582	356,706	145,565
Series 2003 A	27,216	64,878	65,078	27,016
Series 2003 B	436,499	1,032,109	1,039,150	429,458
Series 2003 C	316,476	738,278	747,944	306,810
Series 2004 A	68,005	402,735	303,323	167,417
Total Acct No. 237.1	$ 2,578,131	$ 6,376,314	$ 6,330,068	$ 2,624,376
Acct. No. 237.2 - Accured Interest on Other Liabilities:				
2004 BAN # 1	$ 15,321	$ 61,285	$ 61,285	$ 15,321
2005 BAN # 2		374,965	277,566	97,399
		-		-
Total Acct No. 237.2	$ 15,321	$ 436,250	$ 338,851	$ 112,720
Total Acct No 237	$ 2,593,452	$ 6,812,565	$ 6,668,919	$ 2,737,096

TAXES ACCRUED (ACCOUNT 236)

ACCT. NO. (a)	DESCRIPTION (b)	TOTAL ©
	Balance first of year	$ -
	Accruals Charged:	
408.1	Utility regulatory assessment fees	
408.11	Property taxes	
408.12	Payroll taxes	544,011
408.13	Other taxes and licenses	
408.2	Taxes other than income, other income and deductions	
	Total taxes accrued	$ 544,011
	Taxes paid during year:	
408.1	Utility regulatory assessment fees	
408.11	Property taxes	
408.12	Payroll taxes	544,011
408.13	Other taxes and licenses	
408.2	Taxes other than income, other income and deductions	
	Total taxes paid	$ 544,011
	Balance end of year	$ -

ACCRUED INTEREST (ACCOUNT 237)

DESC. DEBT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR (c)	INTEREST PAID DURING YEAR (d)	BALANCE END OF YEAR (e)
Acct. No. 237.1 - Accured Interest on Long-term Debt				
Series 1997	139,619	301,911	316,990	124,540
Series 1998	202,724	476,086	480,836	197,973
2000 RUS Loan	18,500	110,200	110,400	18,300
Series 2001	307,135	729,746	733,100	303,781
Series 2002 A	910,268	2,169,789	2,176,540	903,517
Series 2002 B	151,689	350,582	356,706	145,565
Series 2003 A	27,216	64,878	65,078	27,016
Series 2003 B	436,499	1,032,109	1,039,150	429,458
Series 2003 C	316,476	738,278	747,944	306,810
Series 2004 A	68,005	402,735	303,323	167,417
Total Acct No. 237.1	$ 2,578,131	$ 6,376,313	$ 6,330,068	$ 2,624,376
Acct. No. 237.2 - Accured Interest on Other Liabilities:				
2004 BAN # 1	$ 30,643	$ 45,964	$ 61,285	$ 15,321
2005 BAN # 2		374,965	277,566	97,399
		-		-
Total Acct No. 237.2	$ 30,643	$ 420,929	$ 338,851	$ 112,720
Total Acct No 237	$ 2,608,774	$ 6,797,242	$ 6,668,919	$ 2,737,097

Miscellaneous Current & Accrued Liabilities (Account 242)

Description (a)	Balance End of Year (b)	
Accrued Payroll Taxes	$ 3,265	
Accrued Payroll	141,235	
Accrued Sales Taxes	58,086	241-0007-000
Accrued Pension	118,462	
Accrued Vacation/Sick	742,606	
Subdistrict Surcharges Payable	565,669	
Total Miscellaneous Current & Accrued Liabilities	$ 1,629,323	

Regulatory Commission Expense (Accounts 666 and 667)

DESCRIPTION OF CASE (DOCKET #) (a)	TOTAL INCURRED DURING YEAR (b)	AMOUNT TRANSFERRED TO ACCOUNT # 186.1 (c)	EXPENSED DURING YEAR	
			ACCT. (d)	AMOUNT (e)
Rate Case 2005-0148 (Case still pending as of 12/31/05)	211,583	211,583		
Rate Case 2002-0105			667	$ 145,116
Rate Case 2003-0234			667	$ 62,076

Miscellaneous Current & Accrued Liabilities (Account 242)

Description (a)	Balance End of Year (b)	
Accrued Payroll Taxes	$ 3,265	
Accrued Payroll	141,235	
Accrued Sales Taxes	58,086	241-0007-000
Accrued Pension	118,462	
Accrued Vacation/Sick	742,606	
Subdistrict Surcharges Payable	565,669	
Total Miscellaneous Current & Accrued Liabilities	$ 1,629,323	

Regulatory Commission Expense (Accounts 666 and 667)

DESCRIPTION OF CASE (DOCKET #) (a)	TOTAL INCURRED DURING YEAR (b)	AMOUNT TRANSFERRED TO ACCOUNT # 186.1 (c)	EXPENSED DURING YEAR	
			ACCT. (d)	AMOUNT (e)
Rate Case 2005-0148 (Case still pending as of 12/31/05)	195,519	211,583		
Rate Case 2002-0105			667	$ 145,116
Rate Case 2003-0234			667	$ 62,076

WATER OPERATING REVENUE

Acct. No Acct.	b	Beginning Year No. Customers c	Year End No. Customers d	Amounts e
	Operating Revenues:			
460	Unmetered Water Revenue			
461	Metered Water Revenue			
461.1	Sales to Residential Customers	57,852	72,563	$ 20,045,989
461.2	Sales to Commercial Customers	3,861	4,509	5,445,797
461.3	Sale to Industrial Customers	106	116	2,472,461
461.4	Sales to Public Authorities	379	491	1,937,221
461.5	Sales to Multiple Family Dwellings	1,087	1,551	2,404,094
461.6	Sales through Bulk Loading Stations	1	-	4,538
	Total Metered Sales	63,286	79,230	32,310,100
462	Fire Protection Revenue:			
462.1	Public Fire Protection			
462.2	Private Fire Protection	367	450	73,995
	Total Fire Protection Revenue	367	450	73,995
464	Other Sales to Public Authorities			
465	Sales to Irrigation Customers			
466	Sales for Resale	7	3	845,183
467	Miscellaneous Sales	1	2	
	Total Sales of Water	63,661	79,685	33,229,278
	Other Water Revenues:			
470	Forfeited Discounts			$ 752,736
471	Miscellaneous Service Revenues			
472	Rents from Water Property			506,326
473	Interdepartmental Rents			
474	Other Water Revenues			358,282
475	Provision for Rate Refunds			
	Total Other Water Revenues:			1,617,344
	Total Water Operating Revenues			$ 34,846,622

Water Utility Expense Accounts

Acct. No. a	Account Name b	Current Year c	Water Expense Account Matrix 0.1 Source of Supply & Expenses Operation d	0.2 Source of Supply & Expenses Mainten. e	0.3 Water Treatment Expenses/ Operation f	0.4 Water Treatment Expenses/ Maint. g	0.5 Trans. & Distribut Expenses Operation h	0.6 Trans. & Dist. Expenses Maint. I	0.7 Customer Accounts Expense j	0.8 Adminis-trative Gen Expenses k
501	Salaries and Wages - Employees	$ 6,811,773	-	46	1,449,102	493,118	618,775	1,969,869	1,634,355	646,507
603	Salaries and Wages - Officers, Directors & Majority Stockholders	656,510	-	-	100,256		105,227	-	89,586	361,442
604	Employee Pensions and Benefits	2,413,137	-	-	507,288	93,400	425,806	458,966	579,157	348,520
610	Purchased Water	-	-	xxx	xxx	xxx	xxx	xxx	xxx	xxx
615	Purchased Power	2,121,220	609,258	xxx	355,921	xxx	1,047,697	xxx	-	108,344
616	Fuel for Power Production	-	-	-	-	-	-	-	-	-
618	Chemicals	1,035,885	-	-	1,035,885	-	-		xxx	xxx
620	Materials & Supplies	1,680,127		29,684	157,892	155,011	98,372	797,313	218,988	222,867
631	Contractual Services - Eng.	95,651	-	-			78,527	17,124	-	-
632	Contractual Services - Acct.	16,875	-	-	-	-	-	-	-	16,875
633	Contractual Services - Legal	114,219	-	-	4,579	-	19,707	-	3,341	86,592
634	Contractual Services - Management Fees	3,211	-	-	-	-	-	-	-	3,211
635	Contracttual Services - Other	3,541,011	1,776	136,443	506,785	186,092	157,126	1,718,312	117,541	716,936
641	Rental of Bldg./Real Property	10,689	-	-	-	-	-	-	-	10,689
642	Rental of Equipment	-	-	-	-		-	-	-	-
650	Transportation Expenses	414,604	-	174	35,809	392	36,412	246,986	89,377	5,454
656	Insurance - Vehicle	86,502	-	-	16,459	-	42,456	-	23,807	3,780
657	Insurance - General Liability	272,040	-	-	87,048	-	144,180	-	27,204	13,608
658	Insurance - Worker's Comp	223,343	-	-	57,808	-	77,548	-	57,947	30,040
659	Insurance - Other	139,539	-	-	35,090	-	-	-	-	104,449
660	Advertising Expense	10,743	xxx	xxx	xxx	xxx	xxx	xxx	xxx	10,743
666	Regulatory Commission Exp/ Amortization of Rate Case Exp.	-	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
667	Regulatory Commission Exp/Other	258,404	-	-	-	-	-	-	258,404	-
670	Bad Debt Expense	524,536	xxx	xxx	xxx	xxx	xxx	xxx	524,536	xxx
675	Miscellaneous Expenses	49,257	-		5,387	187	6,886	8,333	9,402	19,062
	Total Water Utility Expenses	$ 20,479,276	611,034	166,347	4,355,309	928,200	2,858,719	5,216,903	3,633,645	2,709,119

Water Utility Expense Accounts

Acct. No. a	Account Name b	Current Year c	Water Expense Account Matrix 0.1 Source of Supply & Expenses Operation d	0.2 Source of Supply & Expenses Mainten. e	0.3 Water Treatment Expenses/ Operation f	0.4 Water Treatment Expenses/ Maint. g	0.5 Trans. & Distribut Expenses Operation h	0.6 Trans. & Dist. Expenses Maint. I	0.7 Customer Accounts Expense j	0.8 Adminis-trative Gen Expenses k
601	Salaries and Wages - Employees	$ 6,811,773	-	46	1,449,102	493,118	618,775	1,969,869	1,634,355	646,507
603	Salaries and Wages - Officers, Directors & Majority Stockholders	656,510	-	-	100,256		105,227	-	89,586	361,442
604	Employee Pensions and Benefits	2,413,136	-	-	507,288	93,400	425,806	458,966	579,157	348,519
610	Purchased Water	-	-	xxx	xxx	xxx	xxx	xxx	xxx	xxx
615	Purchased Power	2,121,220	609,258	xxx	355,921	xxx	1,047,697	xxx	-	108,344
616	Fuel for Power Production	-	-	-	-	-	-	-	-	-
618	Chemicals	1,035,885	-	-	1,035,885	-	-		xxx	xxx
620	Materials & Supplies	1,680,127		29,684	157,892	155,011	98,372	797,313	218,988	222,867
631	Contractual Services - Eng.	95,651	-	-			78,527	17,124	-	-
632	Contractual Services - Acct.	16,875	-	-	-	-	-	-	-	16,875
633	Contractual Services - Legal	114,219	-	-	4,579	-	19,707	-	3,341	86,592
634	Contractual Services - Management Fees	3,211	-	-	-	-	-	-	-	3,211
635	Contracttual Services - Other	3,541,008	1,776	136,443	506,785	186,092	157,126	1,718,312	117,541	716,933
641	Rental of Bldg./Real Property	10,689	-	-	-	-	-	-	-	10,689
642	Rental of Equipment	-	-	-	-		-	-	-	-
650	Transportation Expenses	414,430	-	-	35,809	392	36,412	246,986	89,377	5,454
656	Insurance - Vehicle	86,502	-	-	16,459	-	42,456	-	23,807	3,780
657	Insurance - General Liability	272,040	-	-	87,048	-	144,180	-	27,204	13,608
658	Insurance - Worker's Comp	223,343	-	-	57,808	-	77,548	-	57,947	30,040
659	Insurance - Other	139,539	-	-	35,090	-	-	-	-	104,449
660	Advertising Expense	10,743	xxx	xxx	xxx	xxx	xxx	xxx	xxx	10,743
666	Regulatory Commission Exp/ Amortization of Rate Case Exp.	-	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
667	Regulatory Commission Exp/Other	258,404	-	-	-	-	-	-	258,404	-
670	Bad Debt Expense	524,536	xxx	xxx	xxx	xxx	xxx	xxx	524,536	xxx
675	Miscellaneous Expenses	49,257	-		5,387	187	6,886	8,333	9,402	19,062
	Total Water Utility Expenses	$ 20,479,098	611,034	166,173	4,355,309	928,200	2,858,719	5,216,903	3,633,645	2,709,115

Pumping and Purchased Water Statistics

a	Water Purchased for Resale (Omit 000's) b	Water Pumped From Plants (Omit 000's) c	Total Water Pumped and Purchased (Omit 000's) d	Water Sold to Customers (Omit 000's) e
January		817,046.0	817,046.0	578,988.5
February		717,280.0	717,280.0	522,693.4
March		798,635.0	798,635.0	797,018.2
April		813,137.2	813,137.2	536,147.7
May		899,865.0	899,865.0	519,882.4
June		1,042,279.0	1,042,279.0	887,043.5
July		1,057,621.0	1,057,621.0	675,504.6
August		1,107,166.0	1,107,166.0	639,786.1
September		908,699.0	908,699.0	1,211,747.3
October		870,173.2	870,173.2	763,043.8
November		788,829.0	788,829.0	706,168.1
December		812,867.9	812,867.9	965,766.0
Total for year		10,633,598.3	10,633,598.3	8,803,789.6

Maximum gallons pumped by all methods in any one day: 44,476.0
8/4/2005

Minimum gallons pumped by all methods in any one day (Omit 000's): 21,915.0
12/25/2005

If water is purchased for resale, indicate the folloinwg:

Vendor:

Point of delivery:

If water is sold to other water utilities for redistribution, list names of such utilities below:

Pendleton County Water District

City of Walton

Bullock Pen Water District

Sales for Resale (466)

Line	Company	Gallons(000's)	Avg. Rate (Cents)	Amount
1	Pendleton County Water Dist.	97,415.9	2.40	$235,541.76
2	City of Walton	168,960.8	2.40	$406,099.56
3	Bullock Pen Water District	84,449.0	2.40	$203,541.96
4				
5				
6				
7				
8				
Total		350,825.7		$845,183.28

WATER STATISTICS

Line	Item	Gallons (000's)
1	**WATER PRODUCED, PURCHASED, & DISTRIBUTED**	
2	Water Produced	10,633,598
3	Water Purchased	
4	**TOTAL PRODUCED AND PURCHASED**	**10,633,598**
5		
6	**WATER SALES:**	
7	Residential	5,931,183
8	Commercial	1,659,182.2
9	Industrial	847,058.4
10	Irrigation	-
11	Resale	350,825.7
12	Other Sales	15,541
13	**TOTAL WATER SALES**	**8,803,789.6**
14		
15	**OTHER WATER USED (estimate portions not metered)**	
16	Utility/water treatment plant	175,351.9
17	Wastewater plant	0.0
18	System flushing	190,433.0
19	Water main breaks/leaks	97,238.0
20	Storage tank overflow	0.0
21	Fire Department	8,300.0
22	Other (construction, flushing, disinfection, ect.)	4,240.0
23	**TOTAL OTHER WATER USED**	**475,562.9**
24		
25	**UNACCOUNTED-FOR WATER LOSS:**	
26	Line 4 - (Line 13 + Line 23)	**1,354,245.8**
27		
28	**UNACCOUNTED-FOR WATER LOSS PERCENTAGE**	
29	Line 26 divided by Line 4	12.74%

WATER STATISTICS

Line	Item	Gallons (000's)
1	**WATER PRODUCED, PURCHASED, & DISTRIBUTED**	
2	Water Produced	10,633,598
3	Water Purchased	
4	**TOTAL PRODUCED AND PURCHASED**	**10,633,598**
5		
6	**WATER SALES:**	
7	Residential	5,931,183
8	Commercial	1,659,182.2
9	Industrial	847,058.4
10	Irrigation	-
11	Resale	350,825.7
12	Other Sales	15,541
13	**TOTAL WATER SALES**	**8,803,789.6**
14		
15	**OTHER WATER USED (estimate portions not metered)**	
16	Utility/water treatment plant	175,351.9
17	Wastewater plant	0.0
18	System flushing	190,433.0
19	Water main breaks/leaks	97,238.0
20	Storage tank overflow	0.0
21	Fire Department	8,300.0
22	Other (construction, flushing, disinfection, ect.)	4,240.0
23	**TOTAL OTHER WATER USED**	**475,562.9**
24		
25	**UNACCOUNTED-FOR WATER LOSS:**	
26	Line 4 - (Line 13 + Line 23)	**1,354,245.8**
27		
28	**UNACCOUNTED-FOR WATER LOSS PERCENTAGE**	
29	Line 26 divided by Line 4	12.74%

PLANT STATISTICS

Give the following information:

1 Number of fire hydrants, by size.
2 Number of private fire hydrants, by size.
3 Wheter water supply is river, impounded streams, well, springs, artificial lake or collector type well.
4 Wether supply is by gravity, pumping, or a combination.
5 Type, capacity, and elevation of resrviors at overflow and ground level.
6 Miles of main by size and kind.
7 Types of filters: gravity or pressure, number of units, and total rated capacity in gallons per minute.
8 Type of chlorinators, number of units and capacity in pounds per 24 hours.
9 Station equipment. List each pump separately, giving type and capacity and H.P. of driving unit and character of driving unit (steam, electric, or internal combustion). State whether pump is high or low duty.
10 Quantity of fuel used: coal in pounds, gas in cu. ft., oil in gallons, and electric in KWH.
11 Give a description and total cost of any sizable additions or retirements to plant in service outside the normal system growth for the period covered by this report.
12 Capacity of clear well.
13 Peak month, in gallons of water sold.
14 Peak day, in gallons of water sold.

1) Kenton County **5541**, Campbell County **2423**.

2) **48**.

3) Rivers: Ohio River and the Liking River.

4) Plants are pumped; Distribution is combination of pumped and gravity.

5) See attached **31A**.

6) See attached **31B**.

7) Fort Thomas Treatment Plant
12 - Gravity, each 560 sq. ft.

Taylor Mill Treatment Plant
8 - Gravity, each 560 sq. ft. @ 5 gallons per sq. ft. per minute

8) See attached **31C**

9) See attached **31D**

10) **N/A**

11) None

Storage Facilities
ern Kentucky Water District
ted: 4/26/2006

Attachment 31A

orage Location	Address	City Location	Type Of Storage	Year In Service	Structure Height (Feet)	Base Elevation (Feet)	Top Elevation (Feet)	Overflow Elevation (Feet)	Normal Elevation (Feet)	Normal Elevation (Feet)	Diameter (Feet)	Capacity (Gallons)
Drive	100 Aqua Drive	Cold Spring	Hydropillar		184			1017				2,000,000
gton Road	2 Barrington Road	Ft. Wright	Hydropillar	1969	141	916.5	1057.5	1046.7	1045.0	1040.0	74	1,000,000
ley	1674 Highwater Road	Bromley	Ground Storage	1966	103	670.0	773.0	764.0	763.0	750.0	75	3,000,000
n Avenue	2816 Dayton St.	Dayton	Ground Storage		50			829.0				500,000
n	US 25	Florence	Hydropillar	1991	156	939.5		1082.0		1042.0	100	2,000,000
ey Pike	796 Dudley Pike	Edgewood	Ground Storage	1964	59	831.0	889.5	876.0	874.0	866.0	140	5,000,000
ey Pike	796 Dudley Pike	Edgewood	Ground Storage	1990	59	831.0	889.5	876.0	874.0	866.0	140	5,000,000
homas Plant	700 Alexandria Pike	Ft. Thomas	Clearwell	1936	31	734.0	765.3	764.5	762.0	760.0		3,000,000
homas Plant	700 Alexandria Pike	Ft. Thomas	Clearwell	1990	35	730.0	778.5	764.5	763.5	757.5	130	3,500,000
son Ave.	2361 Harrison Ave.	Bellevue	Ground Storage		60			829.0				600,000
Spence	Tower Place	Covington	Elevated Tank	1952	175	840.0	1015.0	1005.0	1003.0	1000.0	57	500,000
pendence	5685 Madison Pike	Independence	Hydropillar	1981	137	943.5		1080.0		1039.5	74	1,000,000
strial Park	Industrial Rd. & US 25	Florence	Hydropillar	1961	146	945.5	1091.5	1083.5	1081.0	1062.0	50	500,000
's Hill Road	Knollwood Dr.	Highland Hts.	Elevated Tank		113			1017.0				500,000
ton Lands Rd.	25 Kenton Lands Road	Erlanger	Elevated Tank	1953	158	896.0	1054.0	1045.0	1043.0	1033.0	50	500,000
ley Tank	R47 Lumley Ave.	Fort Thomas	Elevated Tank	1937	187			1017.0				275,000
n St. Tank	Main St. & US 27	Alexandria	Elevated Tank	1962	152			1017.0				300,000
norial Pkwy. Plant	2055 Memorial Pkwy.	Fort Thomas	Clearwell					741.0				3,000,000
St. 4 Tank	Old St. Road #4	Claryville	Elevated Tank	1976	143			1017.0				1,000,000
sford Tank	Marion Dr.	Fort Thomas	Elevated Tank	1962	191			1017.0				300,000
th Newport Tank	Kentucky Drive	Newport	Elevated Tank		155			965.0				1,000,000
lor Mill Plant	608 Grand Ave.	Taylor Mill	Clearwell		15	509.5	524.5	522.0	520.0	518.0		1,000,000
lor Mill Standpipe	5907 Taylor Mill Rd.	Taylor Mill	Standpipe		143			1010.0	130.0	110.0		329,000
											Total storage owned by NKWSD:	35,804,000

MILES OF [illegible] ANALYSIS

Type	Prior Years	2004 Additions	2004 Retirements	2004 YTD TOTAL	2004 Miles	2004 Percent	2005 Additions	2005 Retirements	2005 YTD TOTALS	2005 Miles	2005 Percent
Cast Iron	45.00			45.00	0.01	0.001%			45.00	0.009	0.001%
Cast Iron				-	-	0.000%			-	0.000	0.000%
Cast Iron	397,128.68	1,240.00	875.00	397,493.68	75.28	6.930%	2,094.00	3,100.00	396,487.68	75.092	6.827%
Cast Iron	1,853,356.38	95,753.36	9,529.00	1,939,580.74	367.34	33.816%	737.00	6,765.00	1,933,552.74	366.203	33.291%
Cast Iron	938,829.93	168,204.24	609.00	1,106,425.17	209.55	19.290%	16,786.00	12,978.00	1,110,233.17	210.271	19.116%
Cast Iron	89,794.10	46,057.44		135,851.54	25.73	2.368%		350.00	135,501.54	25.663	2.333%
Cast Iron	583,797.32	12,557.16	5,109.00	591,245.48	111.98	10.308%	21,555.00	1,440.00	611,360.48	115.788	10.526%
Cast Iron	286,160.80	8,410.28	55.00	288,516.08	54.64	5.030%	1,500.00		290,016.08	54.927	4.993%
Cast Iron	3,345.00			3,345.00	0.63	0.058%	104.00	1,500.00	1,949.00	0.369	0.034%
Cast Iron	128,008.79	1,540.00		129,548.79	24.54	2.259%			129,548.79	24.536	2.231%
Cast Iron	93,062.00	4,460.00		97,522.00	18.47	1.700%			97,522.00	18.470	1.679%
Cast Iron	28,563.00			28,563.00	5.41	0.498%			28,563.00	5.410	0.492%
Cast Iron	22,434.21	2,365.00	2,538.00	22,261.21	4.22	0.388%			22,261.21	4.216	0.383%
Cast Iron	17,845.00			17,845.00	3.38	0.311%			17,845.00	3.380	0.307%
						0.000%					0.000%
Concrete	6,050.00			6,050.00	1.15	0.105%			6,050.00	1.145	0.104%
Concrete	21,530.00			21,530.00	4.08	0.375%			21,530.00	4.077	0.371%
Concrete	35,000.00			35,000.00	6.63	0.610%			35,000.00	6.629	0.603%
						0.000%					0.000%
Galvanized	375.00			375.00	0.07	0.007%			375.00	0.071	0.006%
						0.000%					0.000%
Transite	50,335.00			50,335.00	9.53	0.878%			50,335.00	9.533	0.867%
Transite	96,598.00		120.00	96,478.00	18.27	1.682%			96,478.00	18.272	1.661%
						0.000%					0.000%
Steel	226.00			226.00	0.04	0.004%			226.00	0.043	0.004%
Steel	677.00			677.00	0.13	0.012%			677.00	0.128	0.012%
Steel	83.00			83.00	0.02	0.001%			83.00	0.016	0.001%
Steel	11.00			11.00	0.00	0.000%			11.00	0.002	0.000%
Steel	31.00			31.00	0.01	0.001%			31.00	0.006	0.001%
Steel	15.00			15.00	0.00	0.000%			15.00	0.003	0.000%
Steel	1,681.00			1,681.00	0.32	0.029%			1,681.00	0.318	0.029%
Steel	582.00			582.00	0.11	0.010%			582.00	0.110	0.010%
Steel	5,227.00		3,178.00	5,227.00	0.99	0.091%		1,500.00	5,272.00	0.998	0.091%
						0.000%					

NORTHERN KY. WA[illegible]ER [illegible]ISTRICT
MILES OF [illegible]NAL[illegible]

Att[illegible]

Attachment 31B

Type	Prior Years	2004 Additions	2004 Retirements	2004 YTD TOTAL	2004 Miles	2004 Percent	2005 Additions	2005 Retirements	2005 YTD TOTALS	2005 Miles	2005 Percent
Copper	52.00			52.00	0.01	0.001%			52.00	0.010	0.001%
Copper	3,787.00			3,787.00	0.72	0.066%			3,787.00	0.717	0.065%
Copper	4,150.00			4,150.00	0.79	0.072%			4,150.00	0.786	0.071%
Copper	12,648.30			12,648.30	2.40	0.221%			12,648.30	2.396	0.218%
						0.000%					0.000%
Plastic	2,973.00			2,973.00	0.56	0.052%			2,973.00	0.563	0.051%
Plastic	2,292.00			2,292.00	0.43	0.040%			2,292.00	0.434	0.039%
Plastic	66,168.00	2,120.00		68,288.00	12.93	1.191%	2,551.00		70,839.00	13.416	1.220%
Plastic	114,986.00			114,986.00	21.78	2.005%			114,986.00	21.778	1.980%
Plastic	29,539.00			29,539.00	5.59	0.515%			29,539.00	5.595	0.509%
Plastic	123,346.60	7,320.00		130,666.60	24.75	2.278%	6,499.00		137,165.60	25.978	2.362%
Plastic	347,923.00	36,101.00		384,024.00	72.73	6.695%	37,848.00		421,872.00	79.900	7.264%
Plastic	5,839.00			5,839.00	1.11	0.102%	8,555.00		14,394.00	2.726	0.248%
OTAL	5,368,495.11	366,128.48	22,013.00	5,735,788.59	1,086.32	100.0%	98,229.00	27,633.00	5,804,379.59	1,099.99	100.0%

Attachment 31C

Northern Kentucky Water District
Chlorinators and Sodium Hypochlorite Feeders In System
Updated 4/26/2006

Location	# of Units	Form of Chlorine	Type	Capacity (ea.)
Bromley Pump Station	1	Sodium Hypochlorite	Jesco Pump	1.3 GPH
West Covington Pump Station	1	Sodium Hypochlorite	Jesco Pump	2.8 GPH
Bristow Road Pump Station	1	Sodium Hypochlorite	Watson Marlow	5 GPH
Dudley Pump Station	2	Sodium Hypochlorite	US Filter Wallace & Tiernan Encore 700	12 GPH
Fort Thomas Treatment Plant	1	Sodium Hypochlorite	Watson Marlow	77 GPH
	7		US Filter Wallace & Tiernan Encore 700	
Taylor Mill Treatment Plant	2	Sodium Hypochlorite	US Filter Wallace & Tiernan Encore 700	5 GPH
	3		US Filter Wallace & Tiernan Encore 700	22.5 GPH
Ohio River Pump Station	4	Sodium Hypochlorite	Milton Roy Max Roy B	195 GPH
Memorial Pky Treatment Plant	1	Sodium Hypochlorite	Watson Marlow	9.1 GPH
	2		Seepex	8 GPH

Rev. 7/19/2004

KENTUCKY PUBLIC SERVICE COMMISSION

REPORT OF GROSS OPERATING REVENUES DERIVED FROM INTRA-KENTUCKY BUSINESS FOR THE YEAR ENDING DECEMBER 31, 20 06

NORTHERN KENTUCKY WATER DISTRICT (Utility Reporting)

100 AQUA DRIVE - P.O. BOX 220 - COLD SPRI (Address)

FEIN # (Federal Employer Identification Number)

6	1	-	1	3	1	1	6	9	5

(DO NOT INCLUDE TAXES COLLECTED)

(1) Gross Revenues of Electric Utility.....$ _____

(2) Gross Revenues of Gas Utility.....$ _____

(3) Gross Revenues of Water Utility.....$ 33,229,279.00

(4) Gross Revenues of Sewer Utility.....$ _____

(5) Other Operating Revenues.....$ 1,716,334.00

***** TOTAL GROSS REVENUES**.....$ 34,945,623.00

OATH

State of....KENTUCKY.....)
) ss.
County of....CAMPBELL.....)

JACK BRAGG, CPA, CMA (Officer) being duly sworn, states that he/she is

VICE-PRESIDENT OF FINANCE (Official Title) of the NORTHERN KENTUCKY WATER DISTRICT (Utility Reporting) that the above

report of gross revenues is in exact accordance with NORTHERN KENTUCKY WATER DISTRICT (Utility Reporting) and that such

books accurately show the gross revenues of NORTHERN KENTUCKY WATER DISTRICT (Utility Reporting), derived from

Intra-Kentucky business for the calendar year ending December 31, 20 06.

(Officer) VICE-PRESIDENT OF FINANCE (Title)

This the 30 day of March, 20 06

(Notary Public) Campbell (County) 4-8-08 (Commission Expires)

NOTE: ANY DIFFERENCE BETWEEN THE AMOUNT OF THE GROSS REVENUES SHOWN IN THE ANNUAL REPORT AND THE AMOUNT APPEARING ON THIS STATEMENT MUST BE RECONCILED ON THE REVERSE OF THIS REPORT.

OATH

Commonwealth of Kentucky):
County of Kenton): SS:

Jack Bragg, Jr. makes oath and says

that he is Vice President of Finance of

Northern Kentucky Water District;

that it is his duty to have supervision over the books of account of the respondent and to control the manner in which such books are kept; that he knows that such books have, during the period covered by the foregoing report, been kept in good faith in accordance with the accounting and other orders of the Public Service Commission of Kentucky, effective during the said period; that he has carefully examined the said report and to the best of his knowledge and belief the entries contained in the said report have, so far as they relate to matters of account, been accurately taken from the said books of account and are in exact accordance therewith; that he believes that all other statements of fact contained in the said report are true; and that the said report is a correct and complete statement of the business and affairs of the above-named respondent during the period of time from and including

January 1, 2005, to and including December 31, 2005

Signature of official

Subscribed and sworn to before me, a NOTARY PUBLIC in and for the State and County above named, this 27 day of April, 2001.

(Apply Seal Here)

My commission expires: 1-14-09

(Signature of officer authorized to administer oath)

Ernie Fletcher
Governor

LaJuana S. Wilcher, Secretary
Environmental and Public
Protection Cabinet

Christopher L. Lilly
Commissioner
Department of Public Protection

Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, Kentucky 40602-0615
Telephone: (502) 564-3940
Fax: (502) 564-3460
psc.ky.gov

Mark David Goss
Chairman

Teresa J. Hill
Vice Chairman

Gregory Coker
Commissioner

March 28, 2006

Hon. John N. Hughes
Attorney At Law
124 W. Todd Street
Frankfort, KY 40601

RE: Northern Kentucky Water District

Dear Mr. Hughes:

Your request, on behalf of Northern Kentucky Water District, for an extension of time to May 1, 2006, for filing of the 2005 annual report of Northern Kentucky Water District is being granted, with the understanding that every effort will be made to complete and file the annual report at an earlier date.

An extension for filing the Report of Gross Operating Revenues Derived From Intra-Kentucky Business can not be granted. It is to be filed before March 31, 2006. Failure to comply with Commission Regulation 807 KAR 5:006, Section 3(1) and KRS 278.140, may result in the imposition of penalties as provided in KRS 278.990 and **WILL** result in the revocation of the extension for filing the Annual Report.

Sincerely,

Bill Feldman
Assistant Director
Filings Division

cc: Northern Kentucky Water District

JOHN N. HUGHES
ATTORNEY AT LAW
PROFESSIONAL SERVICE CORPORATION
124 WEST TODD STREET
FRANKFORT, KENTUCKY 40601

TELEPHONE (502) [illegible]720 [illegible]@mindspring.com TELEFAX (502) [illegible]

March 27, 2006

RECEIVED
MAR 27 2006
PUBLIC SERVICE COMMISSION

Beth O'Donnell
Executive Director
Public Service Commission
211 Sower Blvd.
Frankfort, KY 40601

Dear Beth:

Northern Kentucky Water District requests an extension of time up to and including May 1, 2006 to file its 2005 Annual Report. The District has not received the Independent Auditor's final report and is in the process of moving into its new office facility. Given the lack of final audited information and the disruption of the staff's daily routine due to the relocation, the District will be unable to file the report when due. For these reasons, the extension is being requested.

If there are any questions about this, please contact me.

Very truly yours,

John N. Hughes

Attorney for Northern Kentucky Water District

KLEER-FAX RECYCLED

80000 SERIES
30% P.C.W.

Northern Kentucky Water Service District
Income Statement

	YTD 02/28/07
Income	
Water Sales	$4,557,171.08
Forfited Discounts	138,236.08
Rents from Water Property	104,101.89
Other Water Revenues	43,165.00
Total Operating Revenues	$4,842,674.05
Operating Expenses	
O & M Expenses	
Salaries & Wages	$1,368,376.39
Employee Pension & Benefits	505,445.50
Taxes Other than Income Taxes	105,604.77
Purchased Power	364,737.95
Chemicals	178,316.78
Materials & Supplies	226,613.17
Contractual Services	371,672.35
Transportation	74,239.88
Insurance	101,845.67
Advertising	2,013.27
Bad Debt Expense	94,422.24
Miscellaneous	4,723.15
Regulatory Commission Assessment	19,888.16
Total O & M Expenses	$3,417,899.28
Depreciation	$940,000.00
Total Operating Expenses	$4,357,899.28
Net Operating Income (Loss)	$484,774.77
Non-Operating Income (Expense)	
Interest Income	$370,595.08
Miscellaneous	541,285.19
Loss on Disposal of Fixed Assets	(227.98)
Interest on Long Term Debt	(873,878.79)
Amortization	(132,249.18)
Net Non-Operating Income (Expense)	($94,475.68)
Net Income before Contributions	$390,299.09
Capital Contributions	$99,847.87
Net Income (Loss)	$490,146.96

Prepared by WSyed

Northern Kentucky Water District
Balance Sheet
As of February 28, 2007

	2007	2006
ASSETS		
CURRENT ASSETS		
Cash and Cash Equivalents	$6,053,874	$6,741,180
Accured Interest Receivable		
Accounts Receivable		
Customers	2,940,083	2,446,619
Unbilled Customers	4,200,000	4,900,000
Other	21,839	14,506
Assessments Receivable	73,008	37,767
Inventory Supplies for New Installation and Maintenance, at Cost	1,186,985	1,061,455
Prepaid Items	512,833	347,780
TOTAL CURRENT ASSETS	14,988,622	15,549,307
RESTRICTED ASSETS		
Boone/Florence Settlement Account	3,061,386	2,911,107
Bond Proceeds Fund	12,021,547	14,758,796
Debt Service Reserve Account	12,909,842	12,259,972
Debt Service Account	1,487,639	1,347,546
Improvement, Repair & Replacement	1,462,047	3,353,469
TOTAL RESTRICTED ASSETS	30,942,461	34,630,890
NONCURRENT ASSETS		
Miscellaneous Deferred Charges	10,136,734	9,603,257
Capital assets:		
Land, System, Buildings and Equipment	278,048,862	253,869,489
Construction in Progress	13,411,121	21,255,041
Total capital assets before accumulated depreciation	291,459,983	275,124,530
Less Accumulated Depreciation	(59,218,992)	(55,382,207)
Total capital assets before accumulated depreciation	232,240,991	219,742,323
TOTAL NONCURRENT ASSETS	242,377,725	229,345,580
TOTAL ASSETS	288,308,808	279,525,777

Prepared by RJB

Northern Kentucky Water District
Balance Sheet
As of February 28, 2007

	2007	2006
LIABILITIES AND RETAINED EARNINGS		
CURRENT LIABILITIES		
Current Portion of Long Term Debt	$277,000	$276,000
Accounts Payable	1,509,565	1,488,375
Accured Payroll & Liabilities	215,457	151,941
Other Accrued Liabilities	79,128	68,044
TOTAL CURRENT LIABILITIES	2,081,150	1,984,360
CURRENT LIABILITIES PAYABLE FROM RESTRICTED ASSETS		
Accounts Payable	858,107	777,805
Accured Interest Payable	592,695	707,415
TOTAL CURRENT LIABILITIES PAYABLE FROM RESTRICTED ASSETS	1,450,802	1,485,220
LONG-TERM DEBT		
Long-Term Portion of Bonded Indebtedness	168,128,000	144,145,000
Bond Anticipation Notes Payable		21,585,000
Note Payable - Taylor Mill	1,875,000	2,125,000
Deferred Note Payable	100,000	100,000
TOTAL LONG-TERM DEBT	170,103,000	167,955,000
TOTAL LIABILITIES	173,634,952	171,424,580
Unrestricted Retained Earnings	85,822,864	79,250,207
TOTAL NET ASSETS	114,673,856	108,101,199
TOTAL LIABILITIES AND NET ASSETS	288,308,808	279,525,779

Prepared by RJB

Northern Kentucky Water District

Bonds Payable and Current Portion

Account No.	Description	Bond Payable Feb 01 2006	Current Portion Payable 2008	As of Feb 28, 2007 Bond Payable LT 2007
220-0007-000	Bonds Payable 1997	$4,650,000	$890,000	$3,760,000
220-0008-000	Bonds Payable 1998	$9,285,000	$280,000	$9,005,000
220-0009-000	Rural Development Loan Payable(2000)	$2,143,000	$28,000	$2,115,000
220-0010-000	2001 Bonds Payable	$14,920,000	$170,000	$14,750,000
220-0011-000	2002 A Bonds Payable	$43,680,000	$410,000	$43,270,000
220-0012-000	2002 B Payable-Refunding	$7,985,000	$625,000	$7,360,000
220-0013-000	2003 A Refunding Bonds Payable	$1,475,000	$35,000	$1,440,000
220-0014-000	Series 2003 B Bonds Payable	$26,860,000	$895,000	$25,965,000
220-0015-000	2003 C Refunding Bonds Payable	$18,805,000	$1,235,000	$17,570,000
220-0016-000	Series 2004 A Bonds Payable	$9,625,000	$290,000	$9,335,000
220-0017-000	Series 2006 A Bonds Payable	$28,700,000	$720,000	$27,980,000
	Total Long Term Debt	$168,128,000	$5,578,000	$162,550,000
232-0100-000	Note Payable City of Taylor Mill	$2,125,000	$250,000	$1,875,000
232-0000-000	Note Payable CC Fiscal Court	$100,000	-	100,000
	Grand Total	$ 170,353,000	$ 5,828,000	$ 164,525,000